



FCC Test report

Test report no.: EMC_957FCC-24_2005_C75

FCC Part 24 / RSS 133

FCC ID: PWX-C75

IC ID: 267E-C75



TTI-P-G 081/94-A0

Accredited according to ISO/IEC 17025



Bluetooth Qualification
Test Facility
(BQTF)



FCC listed # 101450

IC recognized # 3925

CETECOM Inc.

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1	General information
1.1	Notes

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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e-mail : kevin.wolentarski@siemens.com

1.4 Application details

Date of receipt test item : 2005-06-08
Date of test : 2005-06-09/10/11

1.5 Test item

Manufacturer : SIEMENS
Street Address : Suedstr. 9
City / Zip Code : 47475 Kamp-Lintfort
Country : Germany
Marketing Name : C75
Model No. : C75
Description : [GSM 1900 Mobile Phone](#)
FCC-ID : PWX-C75
IC ID : 267E-C75

Additional information

Test Sample for GSM : IMEI: 00-4400-01-107196-4
Frequency : 1850.2MHz – 1909.8MHz for PCS 1900
Type of modulation : GMSK
Number of channels : 299 for PCS 1900
Antenna : Patch Antenna
Power supply : Battery or Charger (AC Adaptor)
Output power : 27.73dBm (592.92mW) max. EIRP measured for PCS 1900
Extreme vol. Limits : 3.6VDC to 4.5VDC (nominal: 3.7VDC)
Extreme temp. Tolerance : -30°C to +50°C

1.6 Test standards

FCC Part 24 / RSS133 Issue 3

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”)	Passed

Technical responsibility for area of testing:**2005-06-16 EMC & Radio Lothar Schmidt (EMC Manager)****Date****Section****Name****Signature****Responsible for test report and project leader:****2005-06-16 EMC & Radio Harpreet Sidhu (EMC Engineer)****Date****Section****Name****Signature**

2.2 Test report

TEST REPORT

Test report no.: EMC_957FCC-24_2005_C75

TEST REPORT REFERENCE

PARAMETER TO BE MEASURED	PARAGRAPH	PAGE
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POWER OUTPUT**§ 24.232(b)****Summary:**

During the process of testing, the EUT was controlled via Rhode & Schwarz Digital Radio Communication tester (CMD-55) to ensure max. Power transmission and proper modulation.

This paragraph contains Burst Average conducted output power and EIRP measurements for the EUT.
In all cases, 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, 1850.2 MHz, 1880.0 MHz and 1909.8 MHz (bottom, middle and top of operational frequency range)

Conducted:**Limits:**

Power Step	Nominal Peak Output Power (dBm)	Tolerance (dB)
0	≤30dBm (1W)*	± 2

*GSM Specification – ETSI EN 300 910 V8.5.0 (2000-07) Section 4.1 {GSM05.05 Version 8.5.0 Release 1999}

Power Measurements:**Conducted Average power measurements are provided by SIEMENS**

Please refer to attached document: “C75_Conducted_Power”

(Page 3, section 2.1, Siemens C75, “IMEI: 004400 01 106980 2”)

Frequency (MHz)	Burst Peak Power (dBm)
1850.2	29.2
1880.0	29.1
1909.8	29.2

Radiated:**EIRP Measurements****Limits:**

Power Step	Burst Peak EIRP (dBm)
0	≤33dBm (1W)

Power Measurements:**Radiated:**

Frequency (MHz)	Power Step	Burst Peak EIRP (dBm)
		EIRP
1850.2	0	27.19
1880.0	0	27.73
1909.8	0	26.72
		±0.5 dB

ANALYZER SETTINGS: RBW = VBW = 3MHz

FREQUENCY STABILITY**§ 2.1055 / § 24.235****Method of Measurement:**

In order to measure the carrier frequency under the condition of AFC lock, it is necessary to make measurements with the EUT in a "call mode". This is accomplished with the use of R&S CMD 55 DIGITAL RADIO COMMUNICATION TESTER.

1. Measure the carrier frequency at room temperature.
2. Subject the EUT to overnight soak at -30 C.
3. With the EUT, powered via nominal voltage, connected to the CMD 55 and in a simulated call on channel 661 (centre channel), measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
4. Repeat the above measurements at 10 C increments from -30 C to +50 C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
5. Remeasure carrier frequency at room temperature with nominal voltage. Vary supply voltage from minimum voltage to maximum voltage, in 0.1Volt increments remeasuring carrier frequency at each voltage. Pause at nominal voltage for 1 1/2 hours unpowered, to allow any self-heating to stabilize, before continuing.
6. Subject the EUT to overnight soak at +50 C.
7. With the EUT, powered via nominal voltage, connected to the CMD 55 and in a simulated call on channel 661 (centre channel), measure the carrier frequency. These measurements should be made within 2 minutes of Powering up the EUT, to prevent significant self-warming.
8. Repeat the above measurements at 10 C increments from +50 C to -30 C. Allow at least 1 1/2 hours at each temperature, unpowered, before making measurements.
9. At all temperature levels hold the temperature to +/- 0.5 C during the measurement procedure.

Measurement Limit:**For Hand carried battery powered equipment:**

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. As this transceiver is considered "Hand carried, battery powered equipment" Section 2.1055(d)(2) applies. This requires that the lower voltage for frequency stability testing be specified by the manufacturer. This transceiver is specified to operate with an input voltage of between 3.6VDC and 4.5VDC, with a nominal voltage of 3.7VDC. Operation above or below these voltage limits is prohibited by transceiver software in order to prevent improper operation as well as to protect components from overstress. These voltages represent a tolerance of -2.7 % and +21.62 %. For the purposes of measuring frequency stability these voltage limits are to be used.

For equipment powered by primary supply voltage:

According to the JTC standard the frequency stability of the carrier shall be accurate to within 0.1 ppm of the received frequency from the base station. This accuracy is sufficient to meet Sec. 24.235, Frequency Stability. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. For this EUT section 2.1055(d)(1) applies. This requires varying primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment.

AFC FREQ ERROR vs. VOLTAGE

Voltage (VDC)	Frequency Error (Hz)	Frequency Error (ppm)
3.6	-10	-0.005319
4.5	-10	-0.005319

AFC FREQ ERROR vs. TEMPERATURE

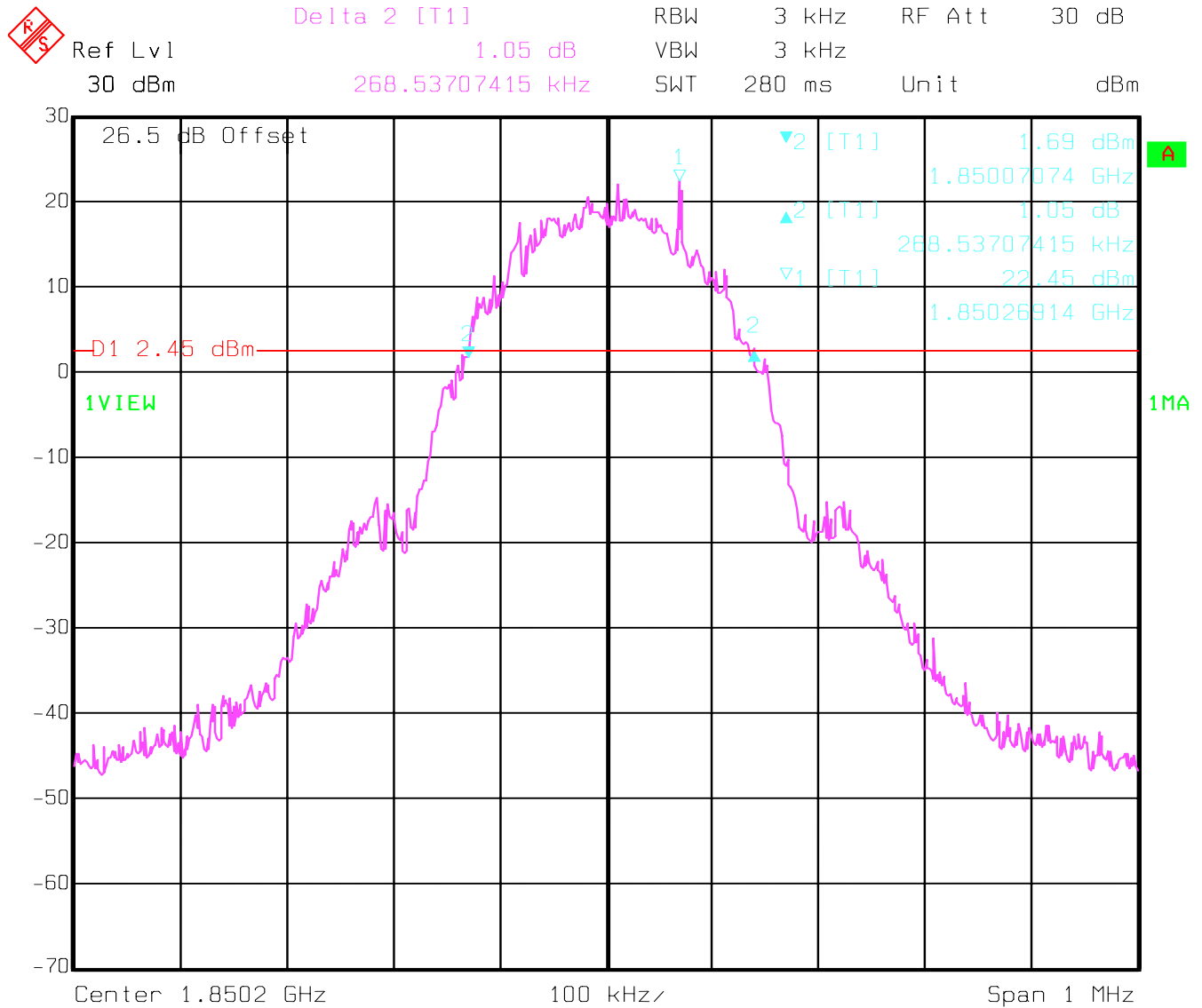
TEMPERATURE (°C)	Frequency Error (Hz)	Frequency Error (ppm)
-30	12	0.00638
-20	-15	-0.00798
-10	-10	-0.005319
0	17	0.00904
+10	-14	-0.007447
+20	-20	-0.0106
+30	-19	-0.0101
+40	-13	-0.00691
+50	-14	-0.007447

OCCUPIED BANDWIDTH**§2.1049(h)(i)****Occupied Bandwidth Results**

Similar to conducted emissions; occupied bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. Table below lists the measured -20dBc BW (99%). Spectrum analyzer plots are included on the following pages.

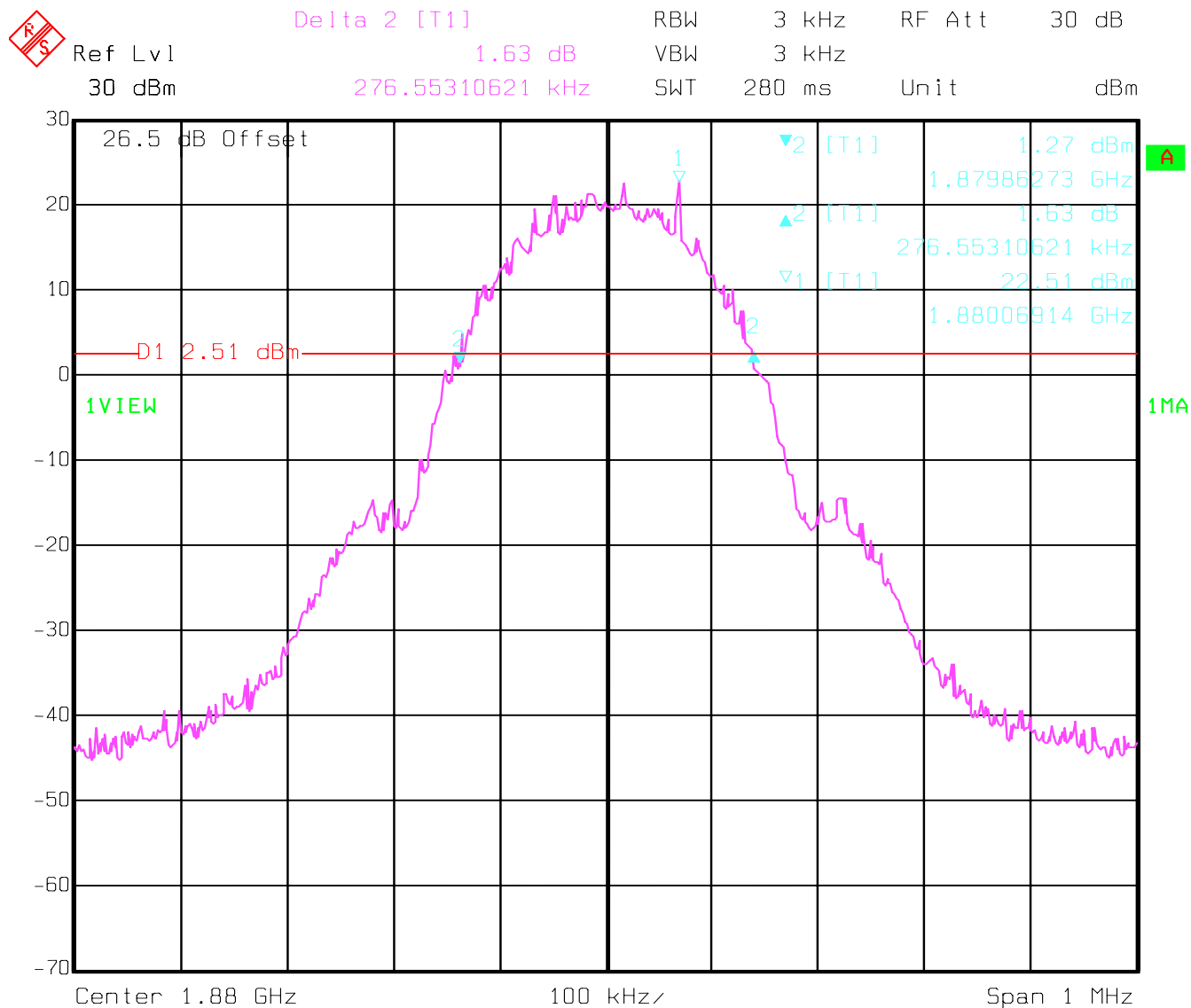
Frequency	Occupied Bandwidth (-20dBc BW)
1850.2 MHz	268.537
1880.0 MHz	276.553
1909.8 MHz	276.553

Channel 512 Occupied Bandwidth (-20dBc BW)



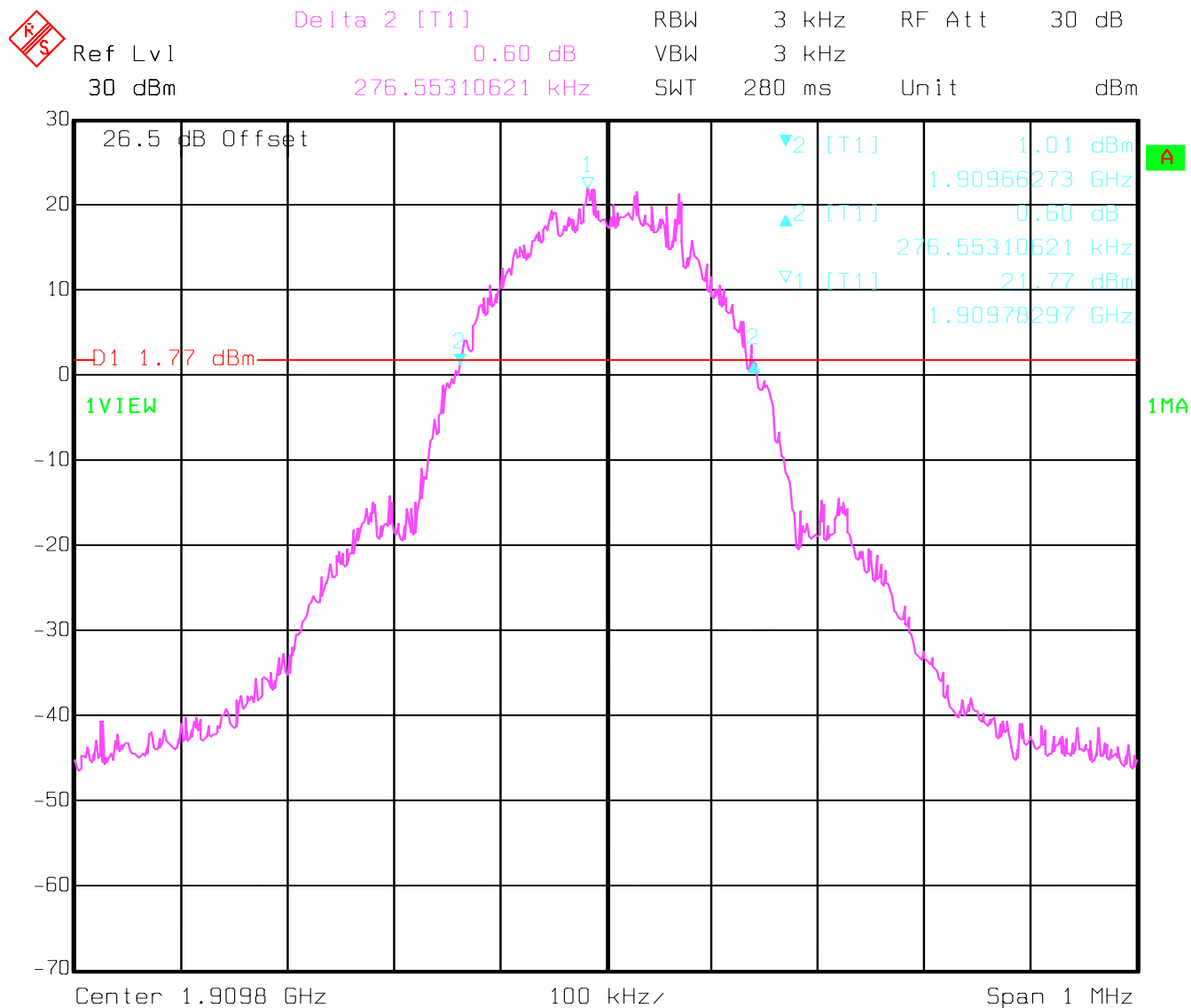
Date: 10.JUN.2005 18:54:02

Channel 661 Occupied Bandwidth (-20dBc BW)



Date: 10.JUN.2005 19:01:09

Channel 810 Occupied Bandwidth (-20dBc BW)



Date: 10.JUN.2005 19:06:08

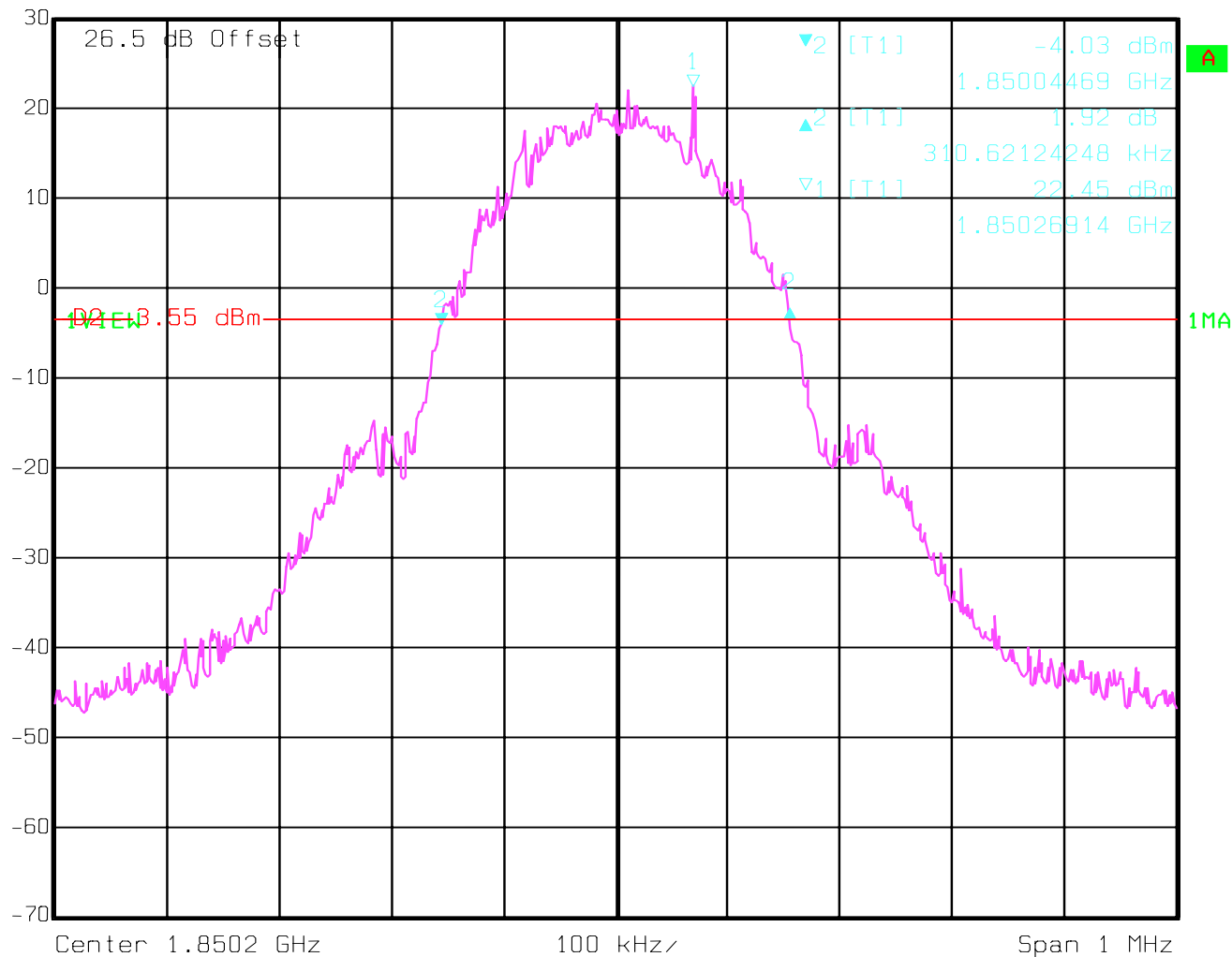
EMISSION BANDWIDTH**§24.238(b)****Emission Bandwidth Results**

Similar to conducted emissions; Emission bandwidth measurements are only provided for selected frequencies in order to reduce the amount of submitted data. Data were taken at the extreme and mid frequencies of the USPCS frequency band. Table below lists the measured -26dBc BW. Spectrum analyzer plots are included on the following pages.

Frequency	Emission Bandwidth (-26dBc BW)
1850.2 MHz	310.621
1880.0 MHz	314.629
1909.8 MHz	314.629

Channel 512
Emission Bandwidth (-26dBc BW)

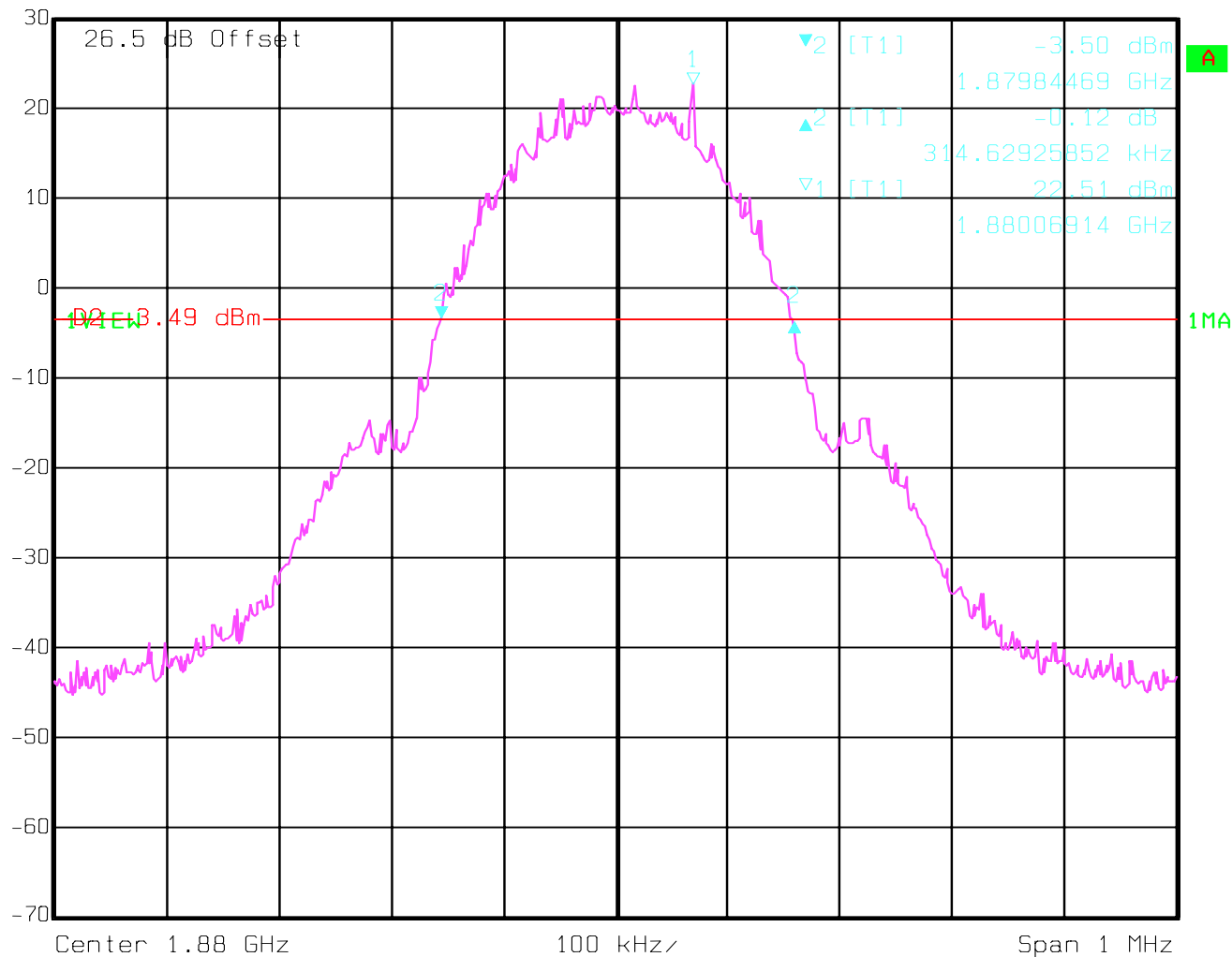
 Ref Lvl 30 dBm Delta 2 [T1] 1.92 dB RBW 3 kHz RF Att 30 dB
310.62124248 kHz VBW 3 kHz Unit dBm
SWT 280 ms



Date: 10.JUN.2005 18:55:12

Channel 661
Emission Bandwidth (-26dBc BW)

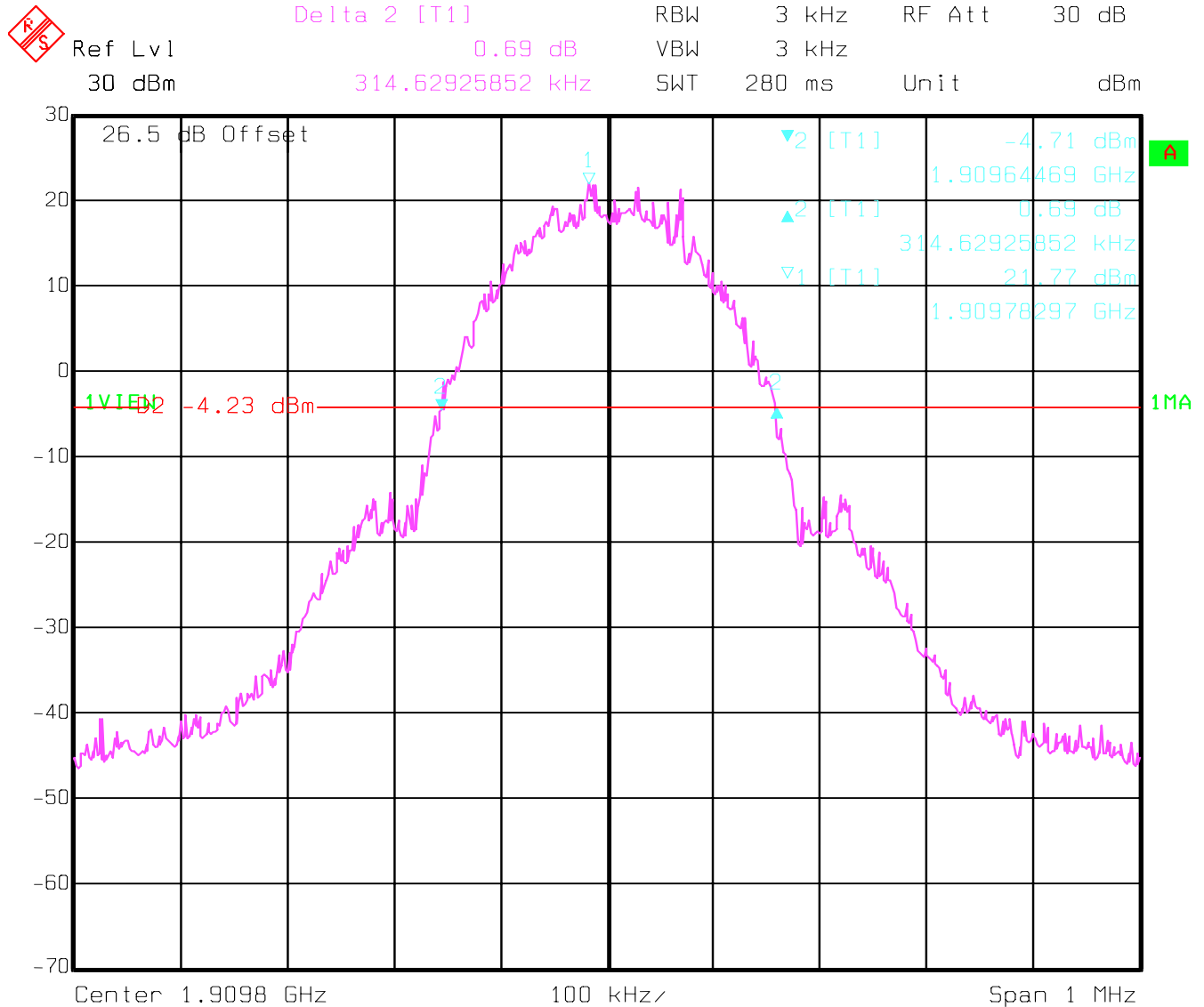
 Ref Lvl 30 dBm Delta 2 [T1] -0.12 dB RBW 3 kHz RF Att 30 dB
314.62925852 kHz VBW 3 kHz Unit dBm
SWT 280 ms



Date: 10.JUN.2005 19:01:35

Channel 810

Emission Bandwidth (-26dBc BW)



Date: 10.JUN.2005 19:06:49

EMISSIONS LIMITS**§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 – 2003 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 1910 MHz. 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 USPCS band.

Additionally testing was done from 9 kHz to 30MHz in order to verify EUT compliance in this freq. range.

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) A double-ridged wave-guide antenna was placed on an adjustable height antenna mast 3 meters from the test item for emission measurements.
- c) 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 EIRP 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 USPCS band (1850.2 MHz, 1880 MHz and 1909.8 MHz). 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 USPCS band into any of the other blocks. 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.

NOTE: 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 3GHz and 19.1 GHz very short cable connections to the antenna was used to minimize the noise level.

RESULTS OF RADIATED TESTS FOR FCC-24:

Harmonic	Tx ch. 512 Freq. (MHz)	Level (dBm)	Tx ch. 661 Freq. (MHz)	Level (dBm)	Tx ch. 810 Freq. (MHz)	Level (dBm)
2	3700.4	-40.64	3760	-37.66	3819.6	-40.07
3	5550.6	-40.70	5640	-37.77	5729.4	-36.88
4	7400.8	-42.52	7520	-46.43	7639.2	-44.58
5	9251	-40.92	9400	-36.97	9549	-35.15
6	11101.2	nf	11280	nf	11458.8	nf
7	12951.4	nf	13160	nf	13368.6	nf
8	14801.6	nf	15040	nf	15278.4	nf
9	16651.8	nf	16920	nf	17188.2	nf
10	18502	nf	18800	nf	19098	nf

nf: noise floor

RADIATED SPURIOUS EMISSIONS

30MHz - 1GHz

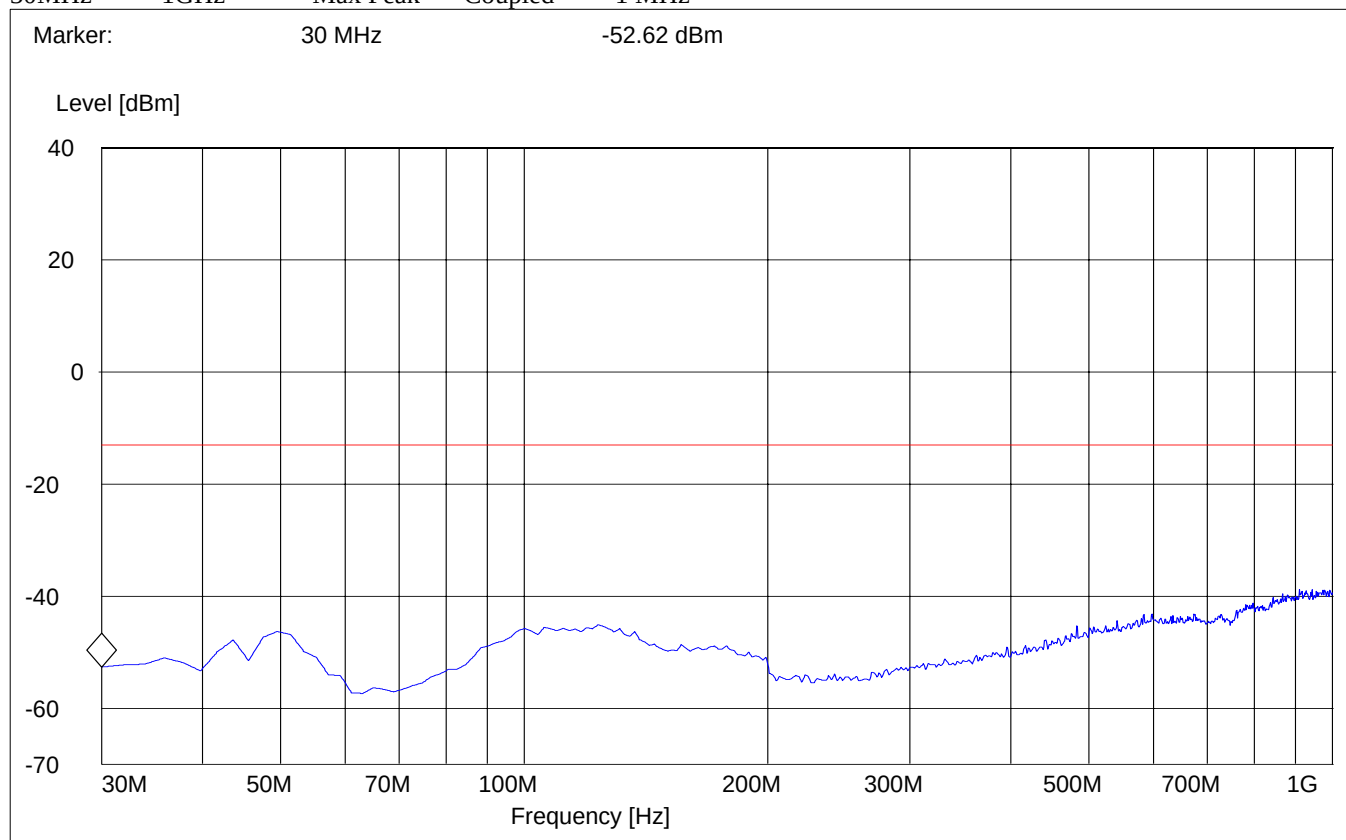
Spurious emission limit -13dBm

Antenna: vertical

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

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

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



RADIATED SPURIOUS EMISSIONS

30MHz - 1GHz

Spurious emission limit -13dBm

Antenna: horizontal

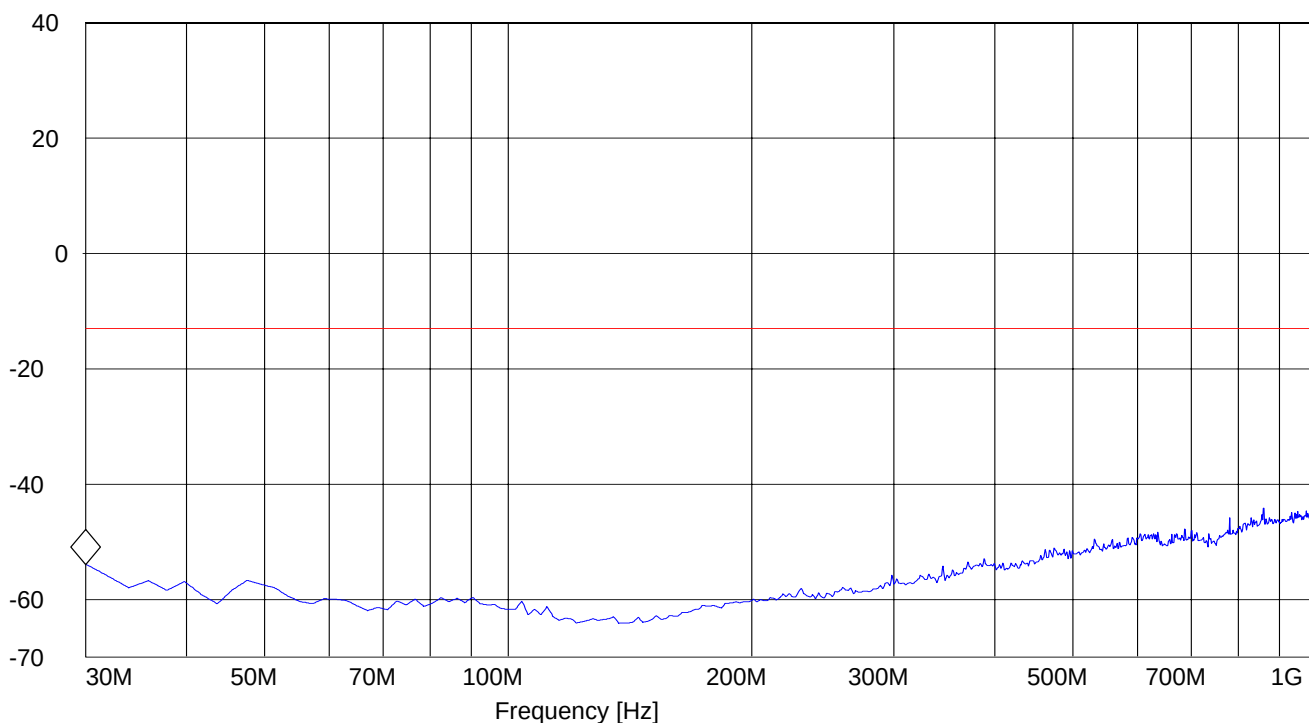
Note: This plot is valid for low, mid & high channels (worst-case plot).

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

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

Marker: 30 MHz -53.91 dBm

Level [dBm]



RADIATED SPURIOUS EMISSIONS

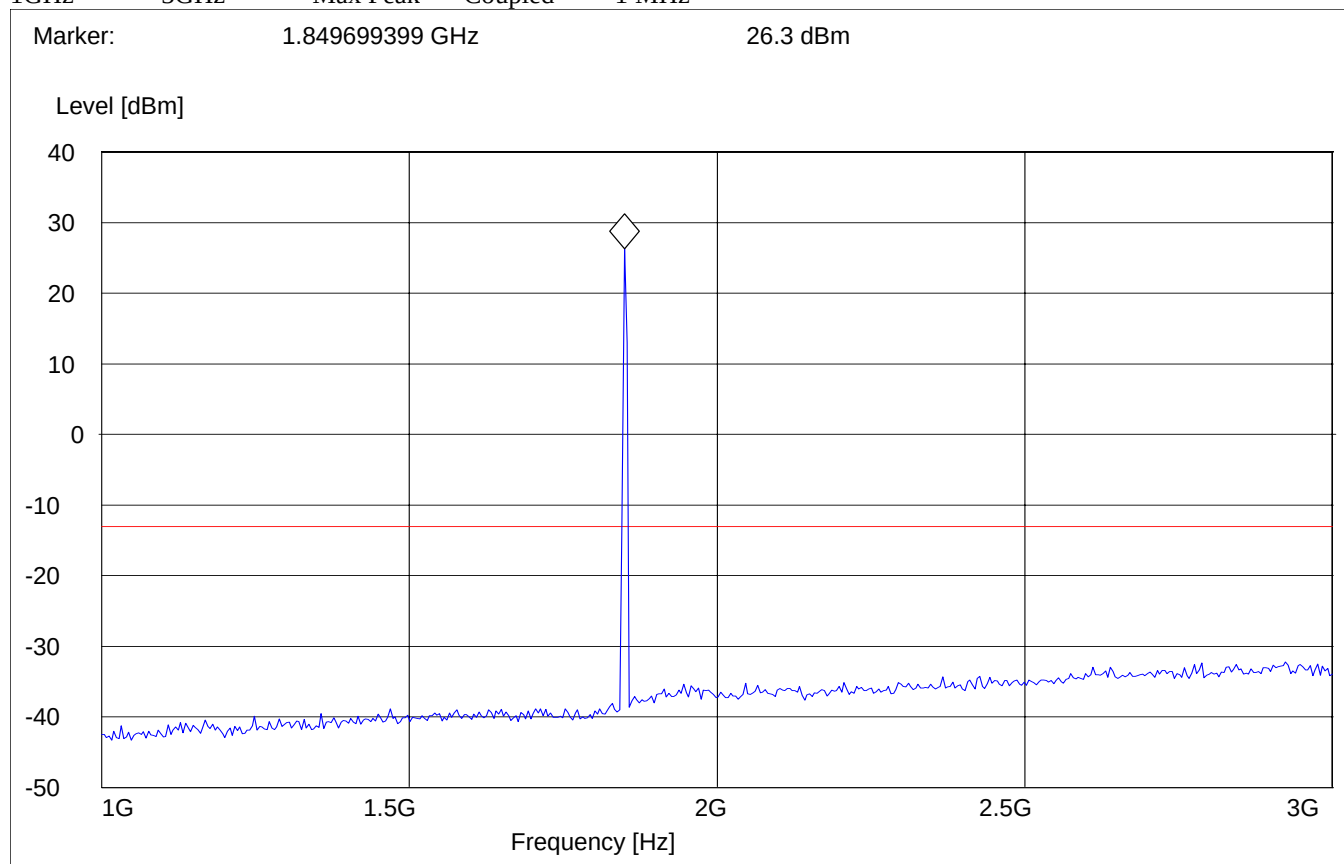
Channel 512: 1GHz – 3GHz

Spurious emission limit –13dBm

NOTE: peak above the limit line is the Carrier frequency @ ch-512.

SWEEP TABLE: "FCC Spuri 1-3G"

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



RADIATED SPURIOUS EMISSIONS

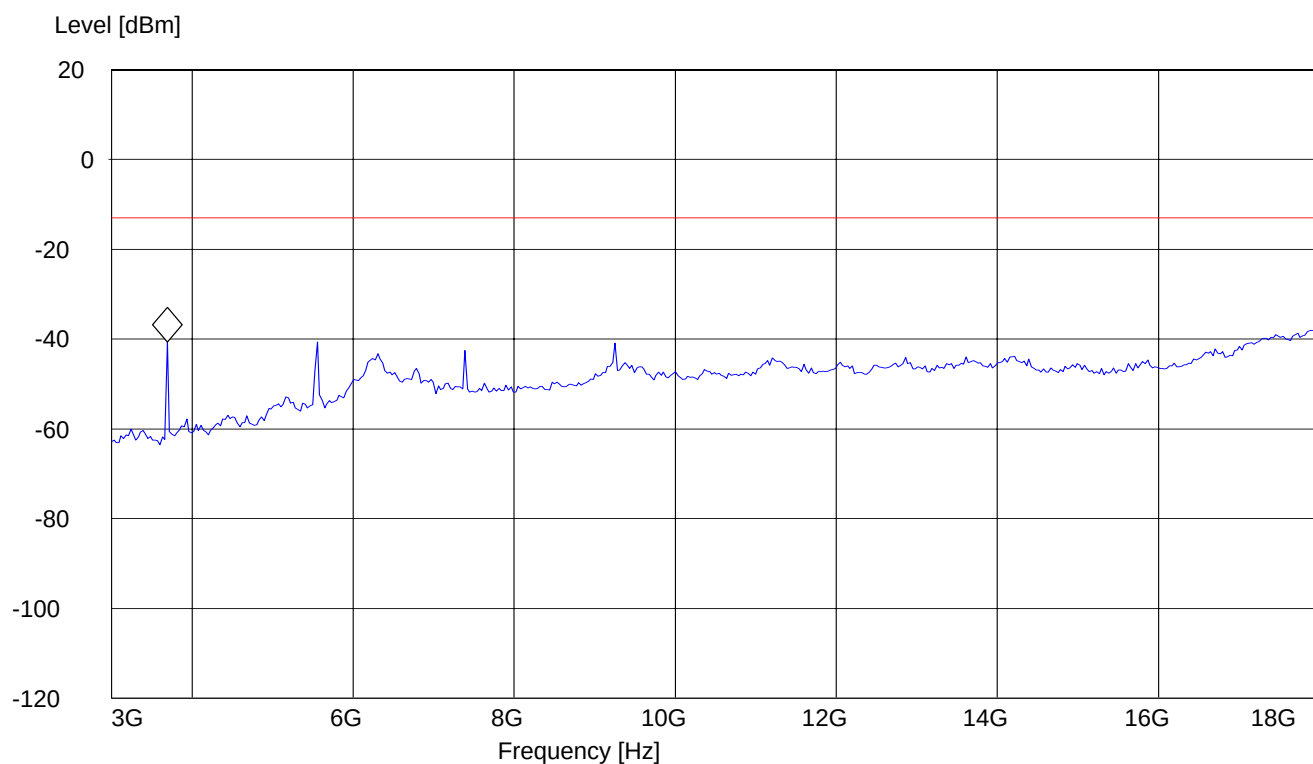
Channel 512: 3GHz – 18GHz

Spurious emission limit -13dBm

SWEEP TABLE: "FCC Spuri 3-18G"

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

Marker: 3.691382766 GHz -40.64 dBm



RADIATED SPURIOUS EMISSIONS

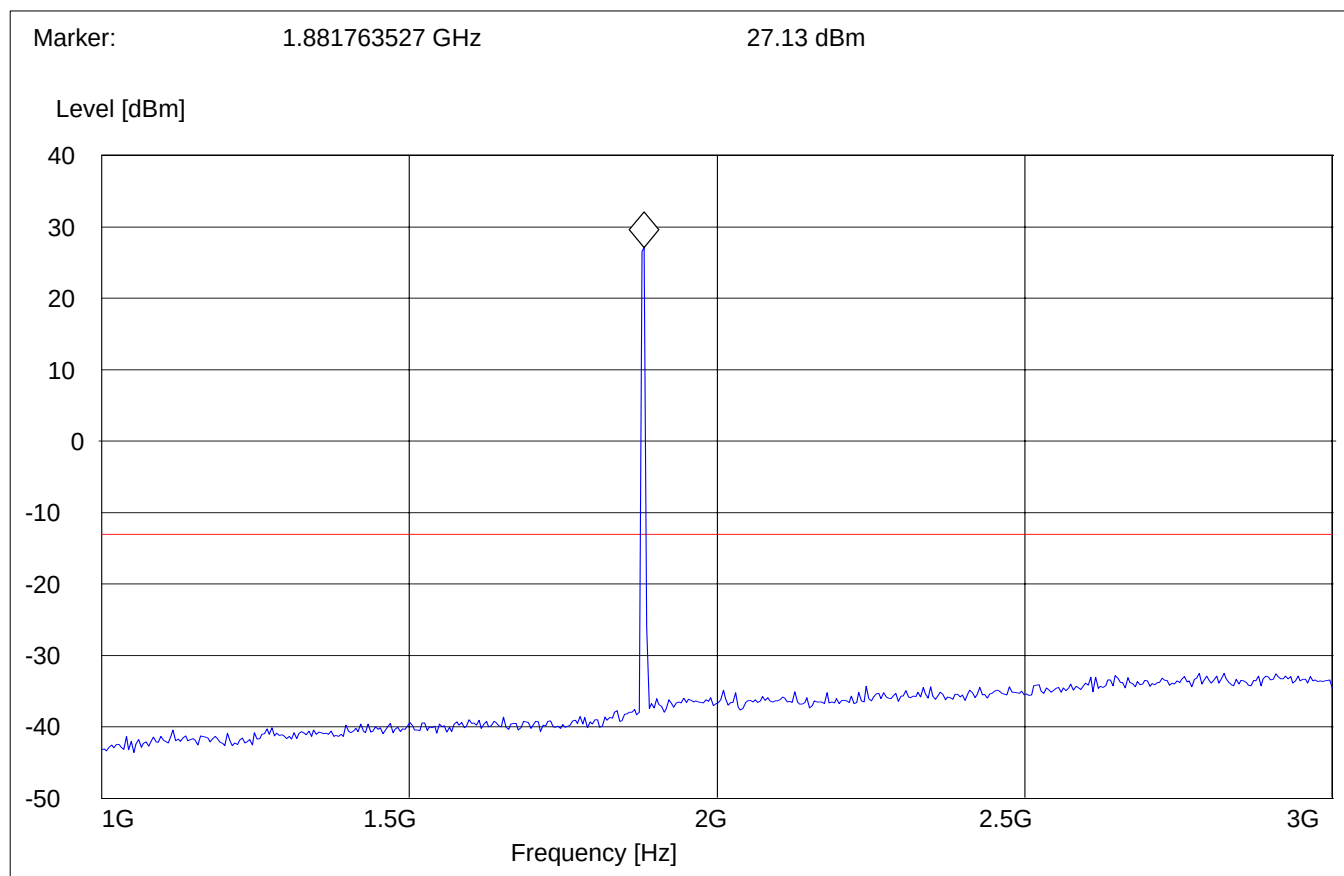
Channel 661: 1GHz – 3GHz

Spurious emission limit –13dBm

NOTE: peak above the limit line is the Carrier frequency @ ch-661

SWEEP TABLE: "FCC Spuri 1-3G"

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



RADIATED SPURIOUS EMISSIONS

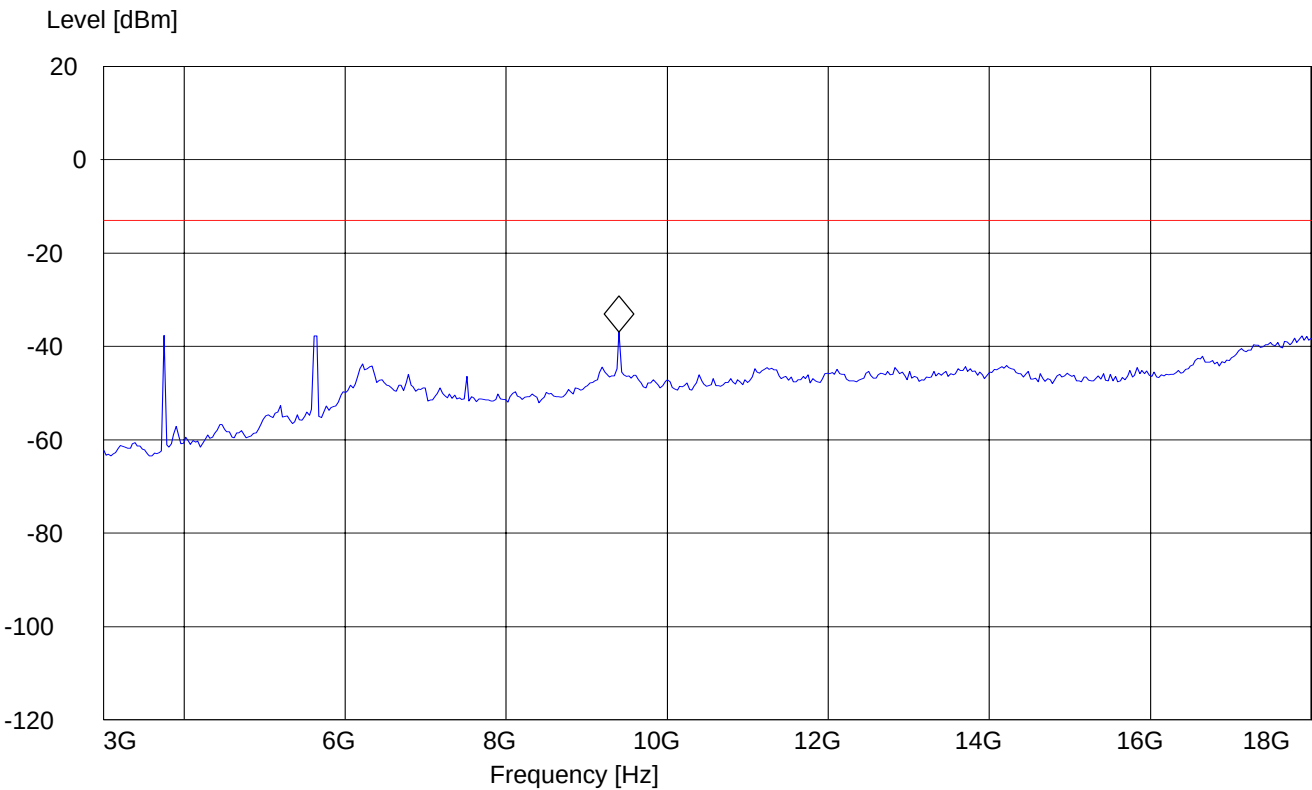
Channel 661: 3GHz – 18GHz

Spurious emission limit –13dBm

SWEEP TABLE: "FCC Spuri 3-18G"

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

Marker: 9.402805611 GHz -36.97 dBm



RADIATED SPURIOUS EMISSIONS

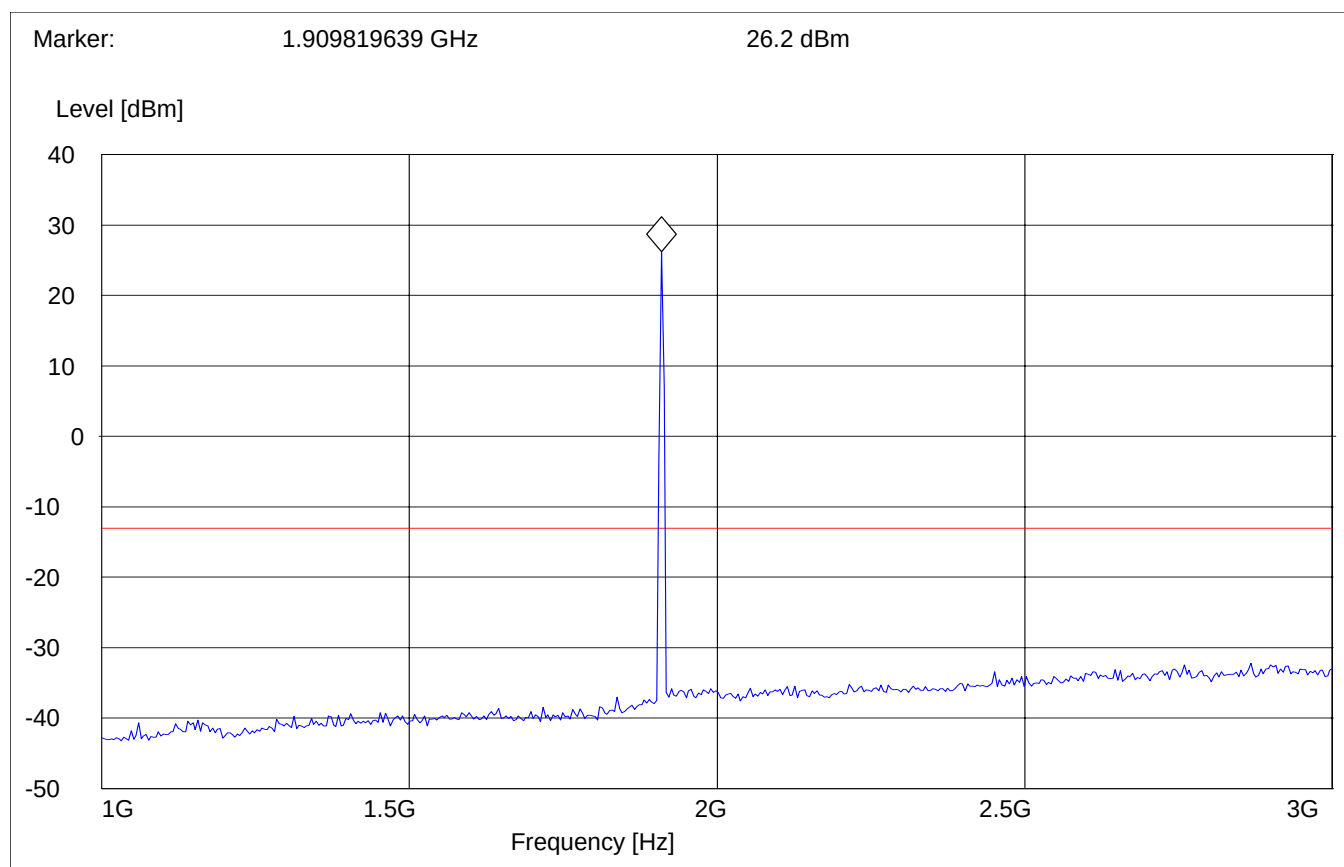
Channel 810: 1GHz – 3GHz

Spurious emission limit –13dBm

NOTE: marked peak above the limit line is the Carrier frequency @ ch-810

SWEEP TABLE: "FCC Spuri 1-3G"

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



RADIATED SPURIOUS EMISSIONS

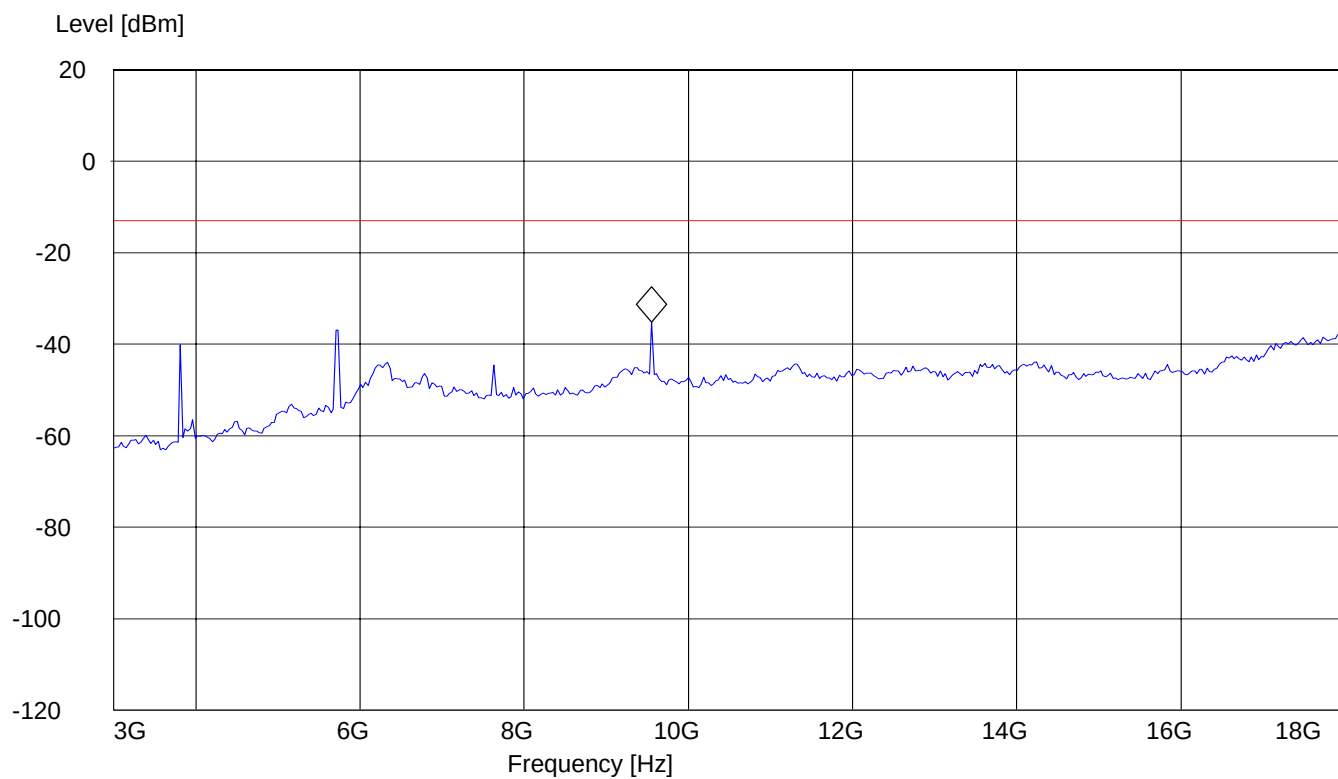
Channel 810: 3GHz – 18GHz

Spurious emission limit –13dBm

SWEEP TABLE: "FCC Spuri 3-18G"

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

Marker: 9.553106212 GHz -35.15 dBm

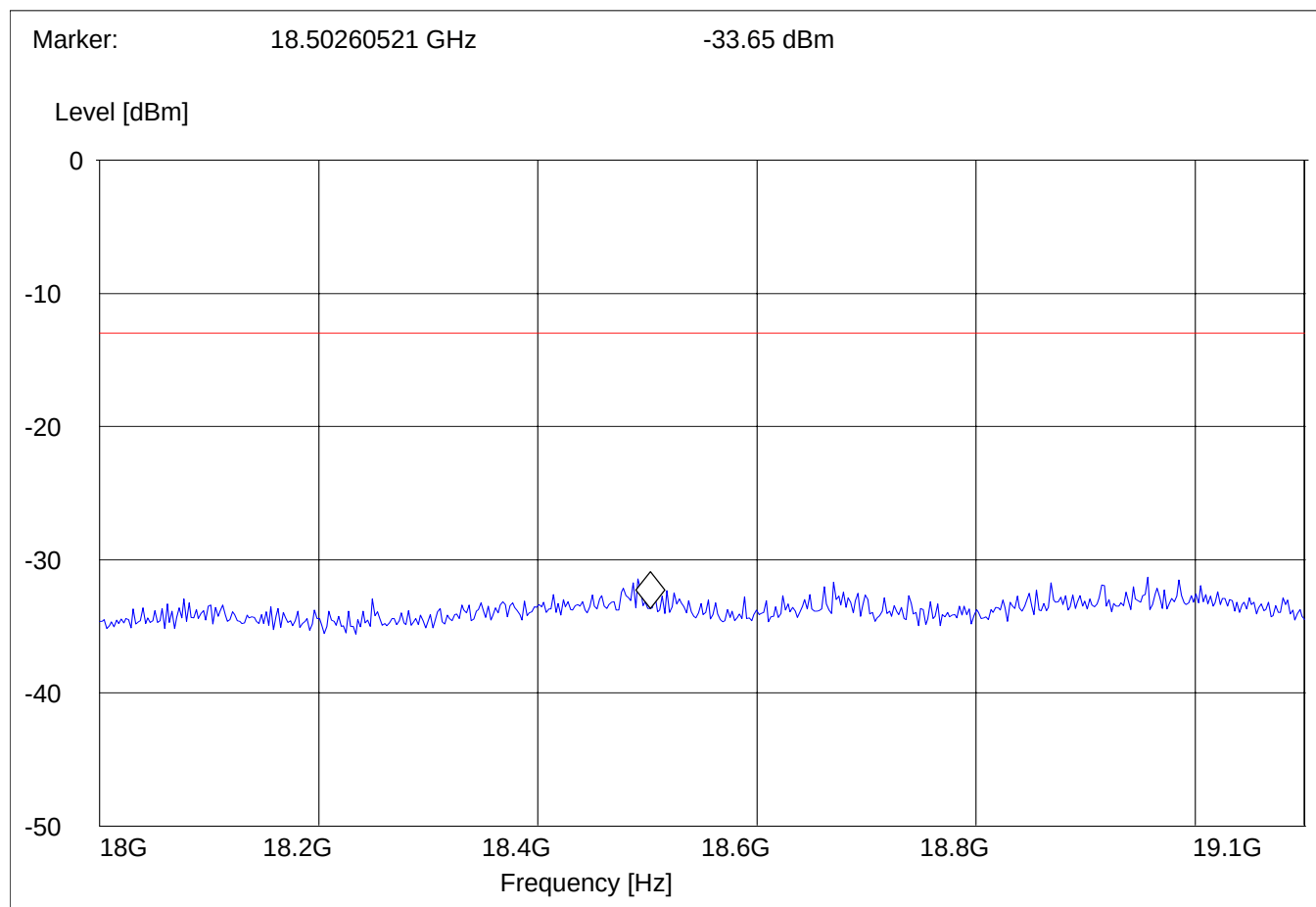


RADIATED SPURIOUS EMISSIONS**18GHz – 19.1GHz**

Spurious emission limit –13dBm

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



RADIATED SPURIOUS EMISSIONS

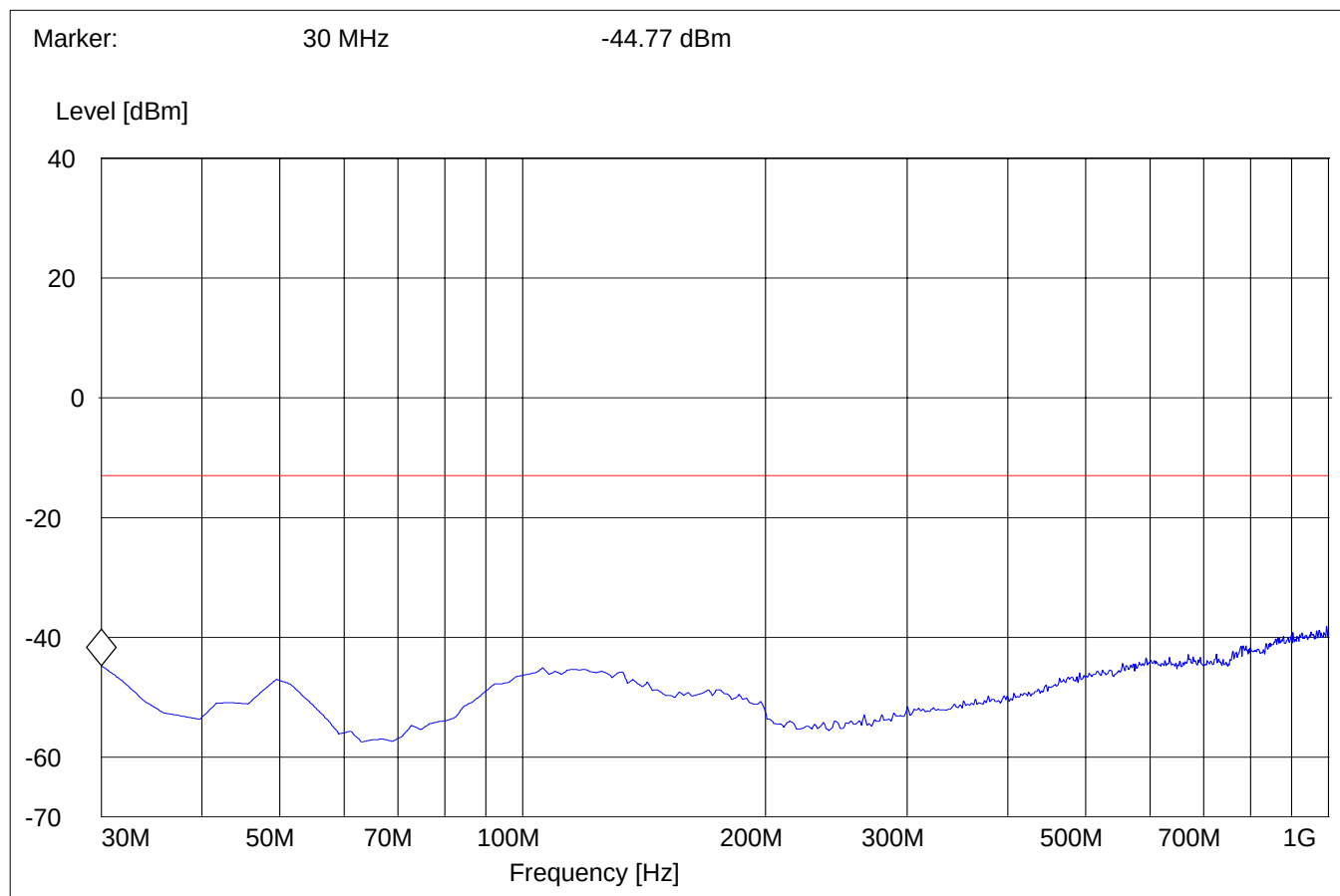
EUT in Idle Mode: 30MHz – 1GHz

Spurious emission limit –13dBm

Note: This plot is applicable for both polarities (worst-case plot)

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

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



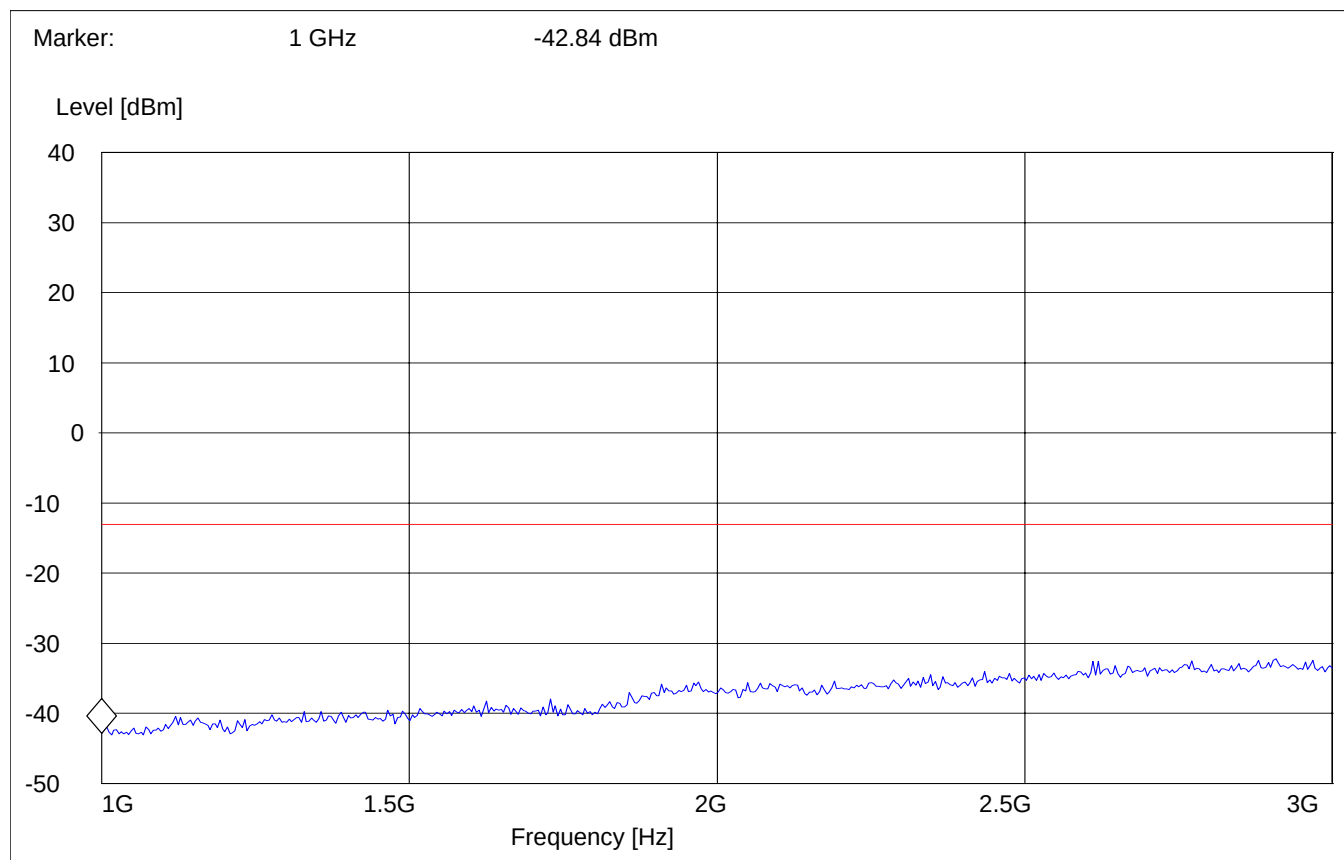
RADIATED SPURIOUS EMISSIONS

EUT in Idle Mode: 1GHz – 3GHz

Spurious emission limit –13dBm

SWEEP TABLE: "FCC Spuri 1-3G"

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



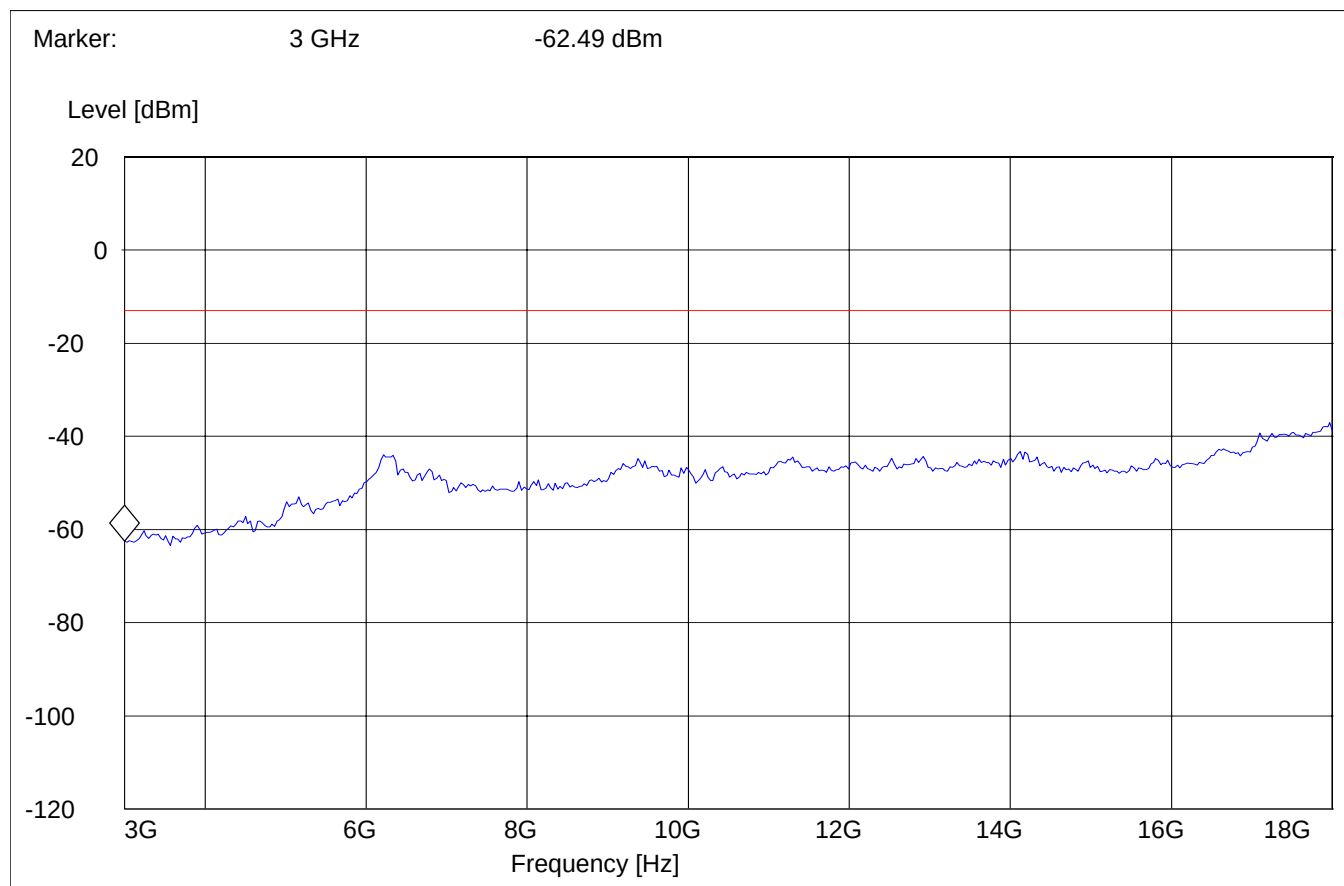
RADIATED SPURIOUS EMISSIONS

EUT in Idle Mode: 3GHz – 18GHz

Spurious emission limit –13dBm

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

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



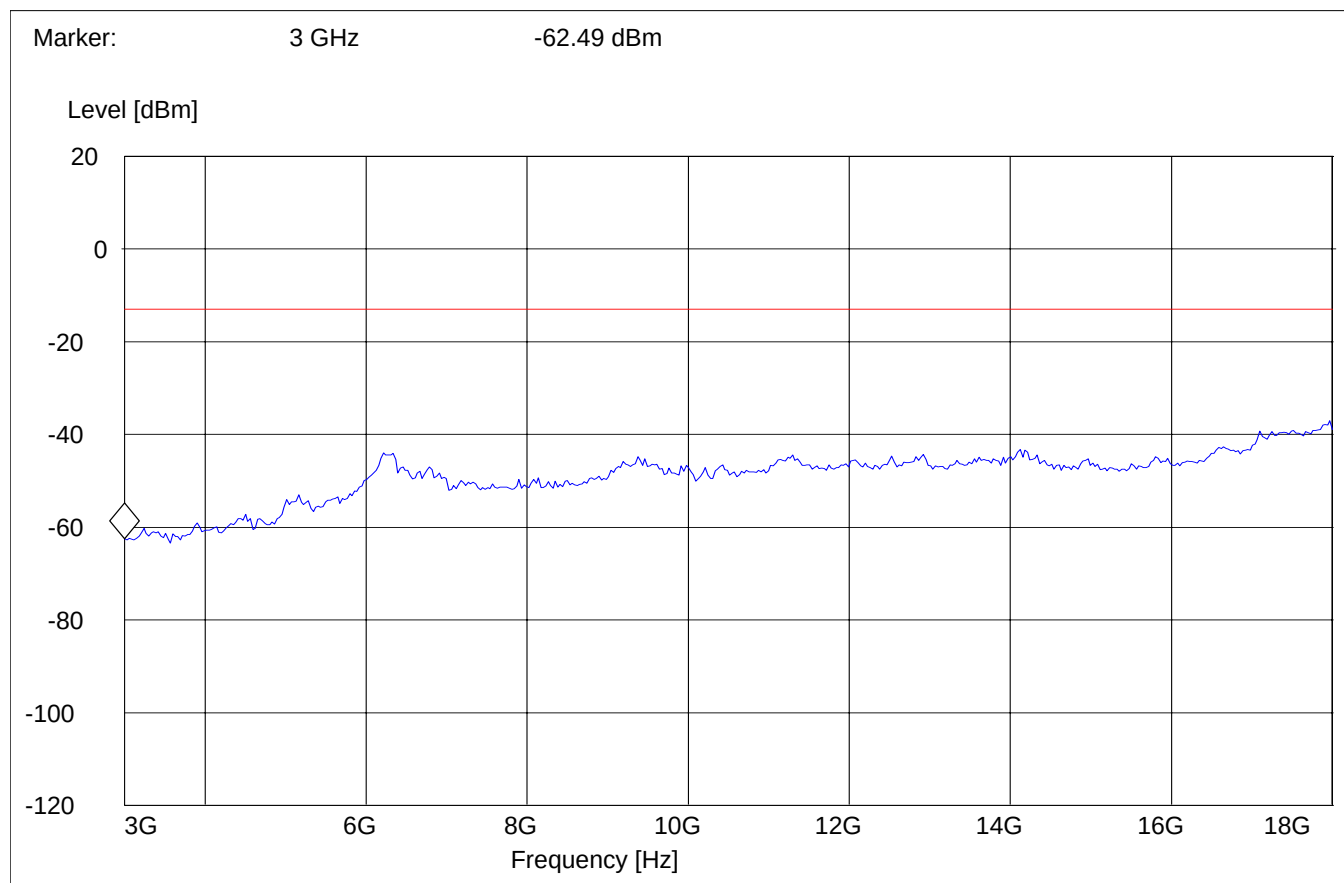
RADIATED SPURIOUS EMISSIONS

EUT in Idle Mode: 18GHz – 19.1GHz

Spurious emission limit –13dBm

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

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



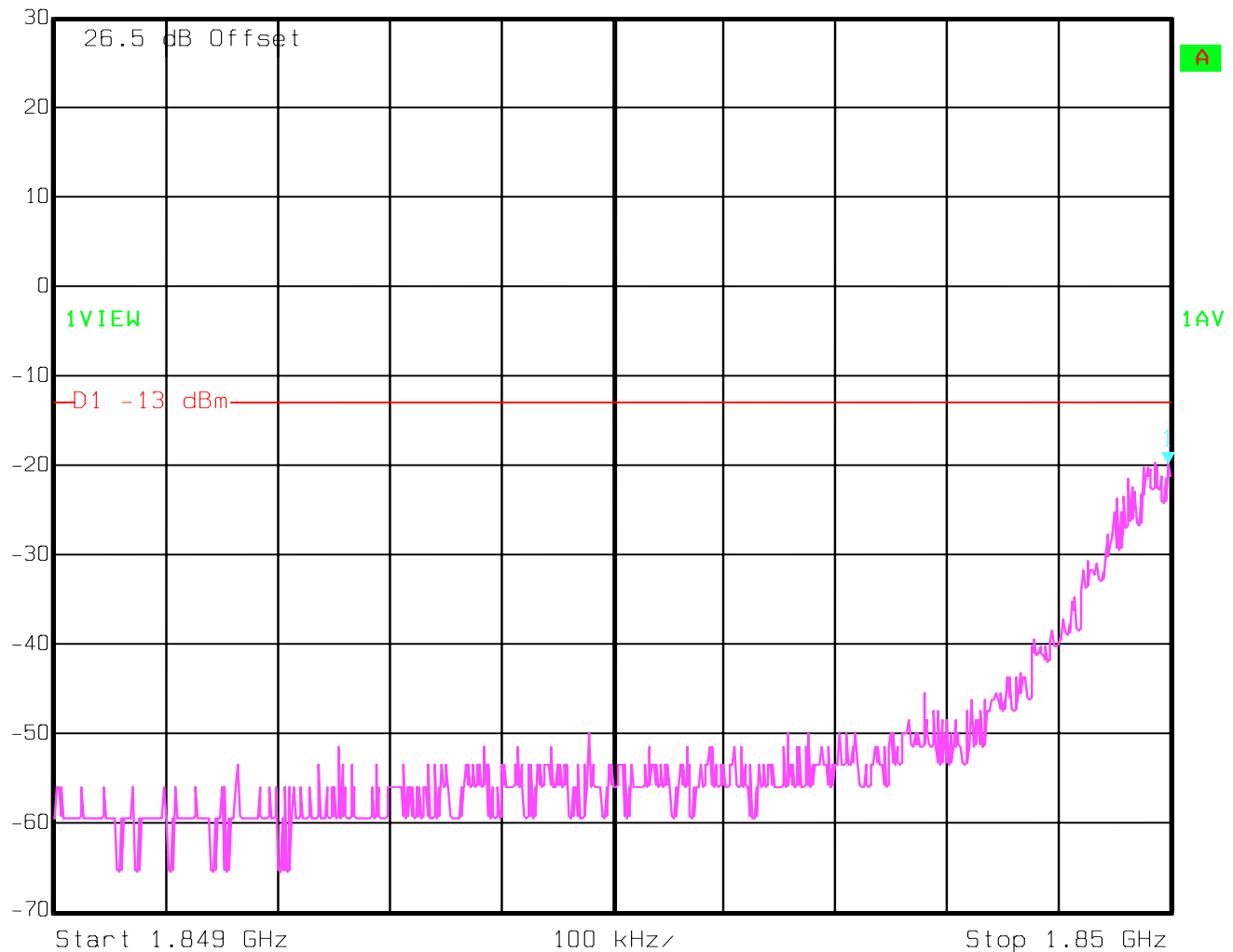
BAND EDGE COMPLIANCE (Conducted)

§24.238(b)

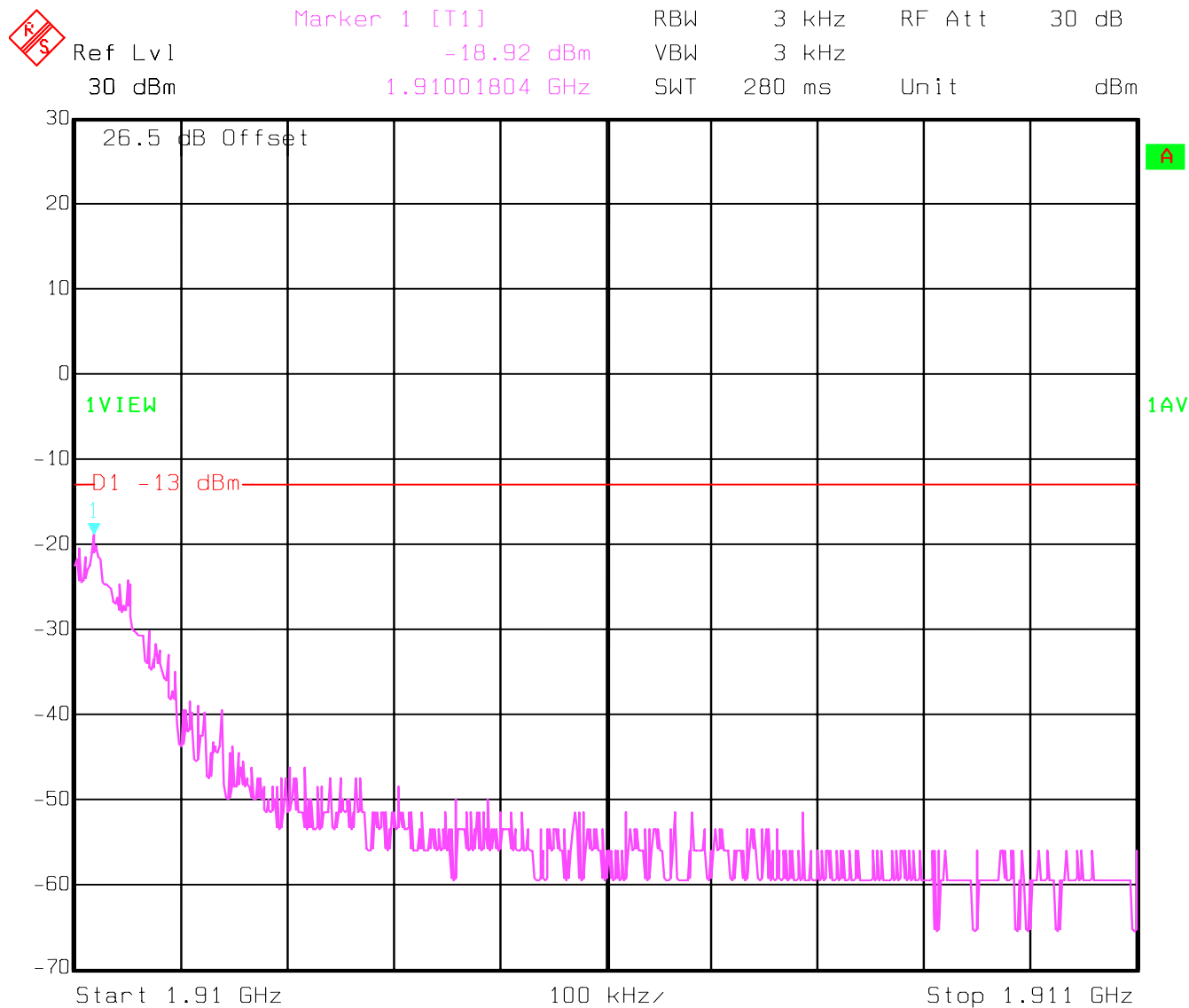
LOW BAND EDGE BLOCK-A (PCS-1900) (Conducted) Channel: 512

§2.1049, §24.238 (a)(b)


 Ref Lvl 30 dBm
 Marker 1 [T1] -19.81 dBm
 1.84999800 GHz
 RBW 3 kHz
 VBW 3 kHz
 SWT 280 ms
 RF Att 30 dB
 Unit dBm



Date: 10.JUN.2005 18:43:22

HIGH BAND EDGE BLOCK-C (PCS-1900)**§2.1049, §24.238 (a)(b)****(Conducted)****Channel: 810**

Date: 10.JUN.2005 18:44:47

RECEIVER RADIATED EMISSIONS**§ 15.209**

NOTE: 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 19.1GHz very short cable connections to the antenna was used to minimize the noise level.

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

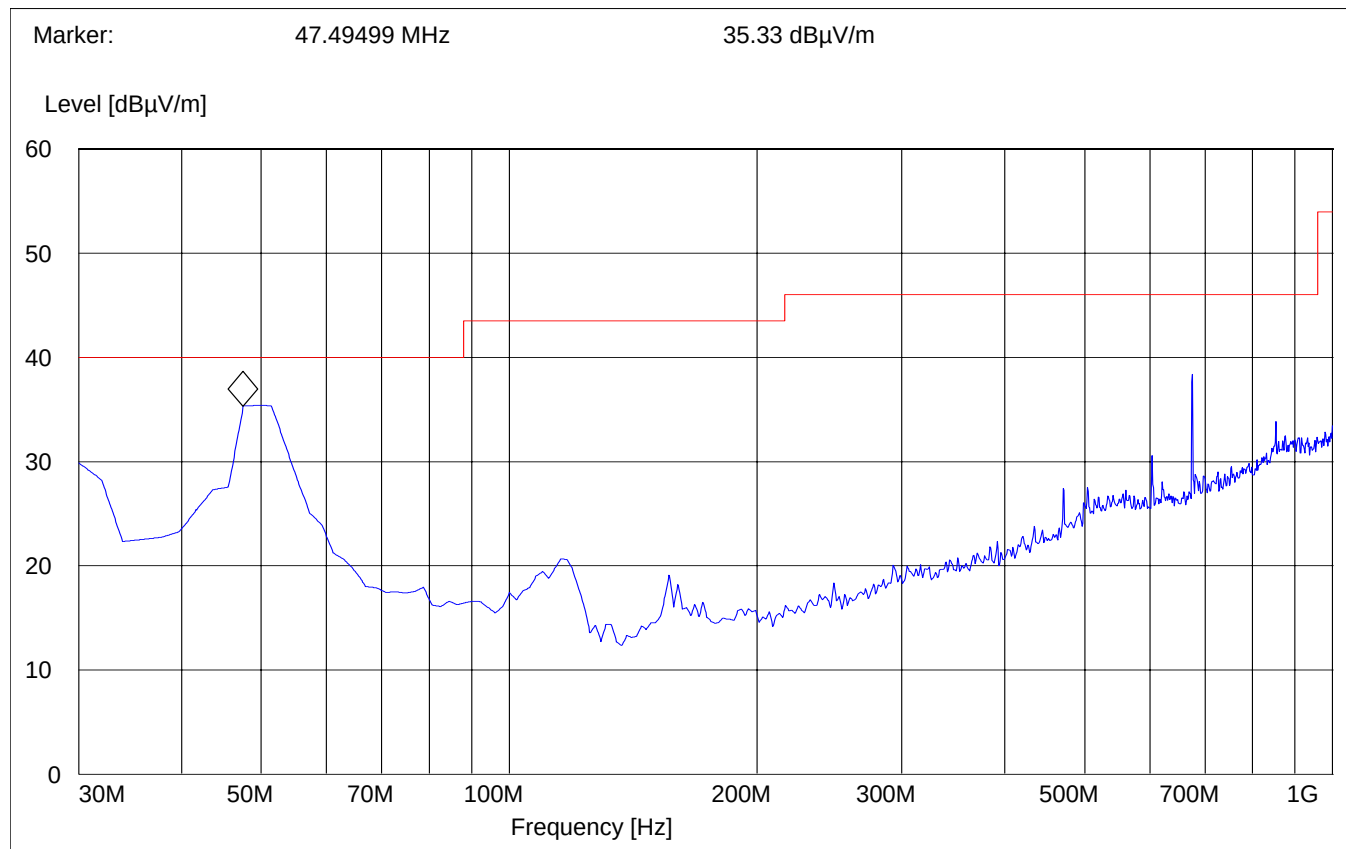
RECEIVER RADIATED EMISSIONS

EUT in Idle Mode: 30MHz – 1GHz

Antenna: vertical

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

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



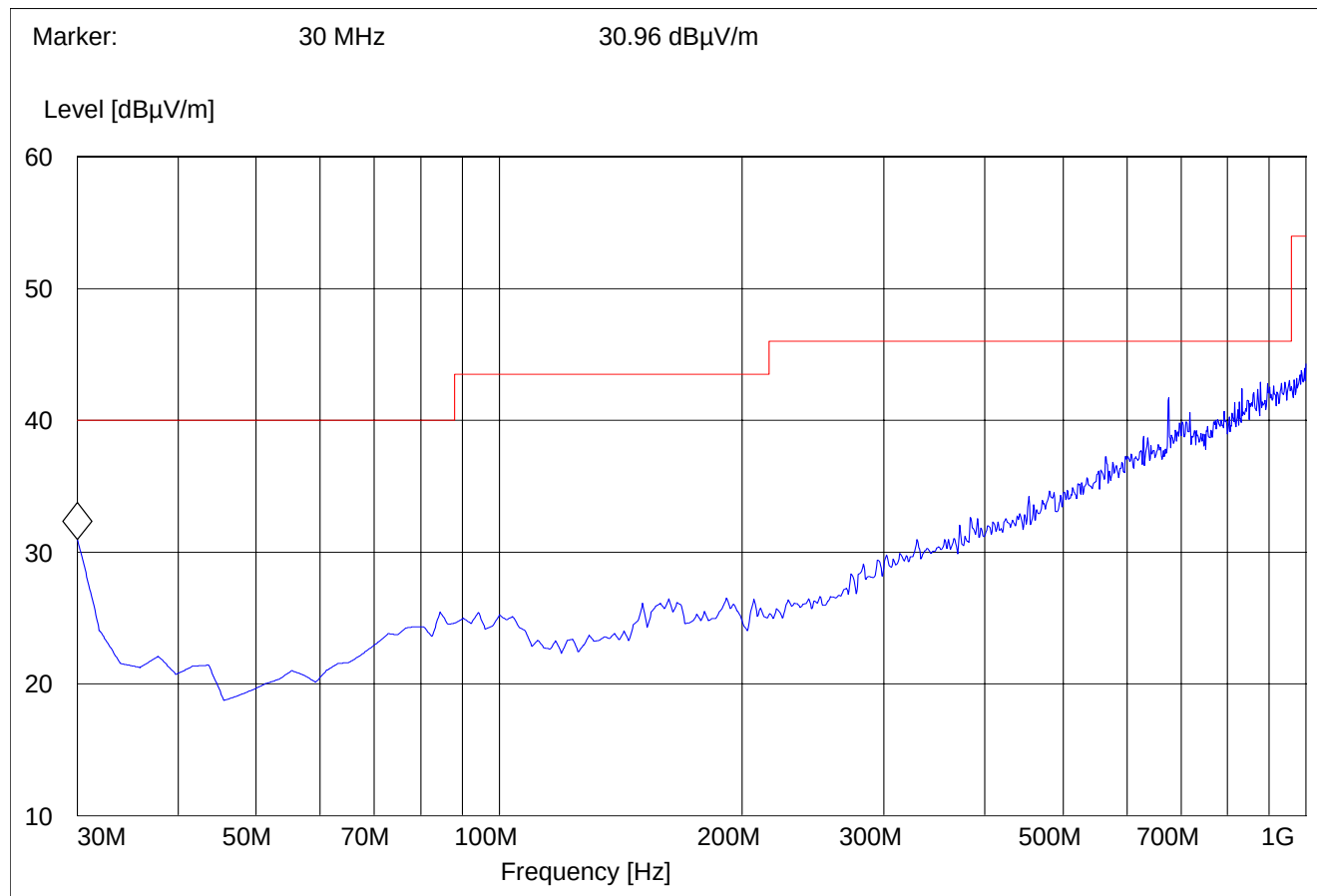
RECEIVER RADIATED EMISSIONS

EUT in Idle Mode: 30MHz – 1GHz

Antenna: horizontal

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

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



RECEIVER RADIATED EMISSIONS

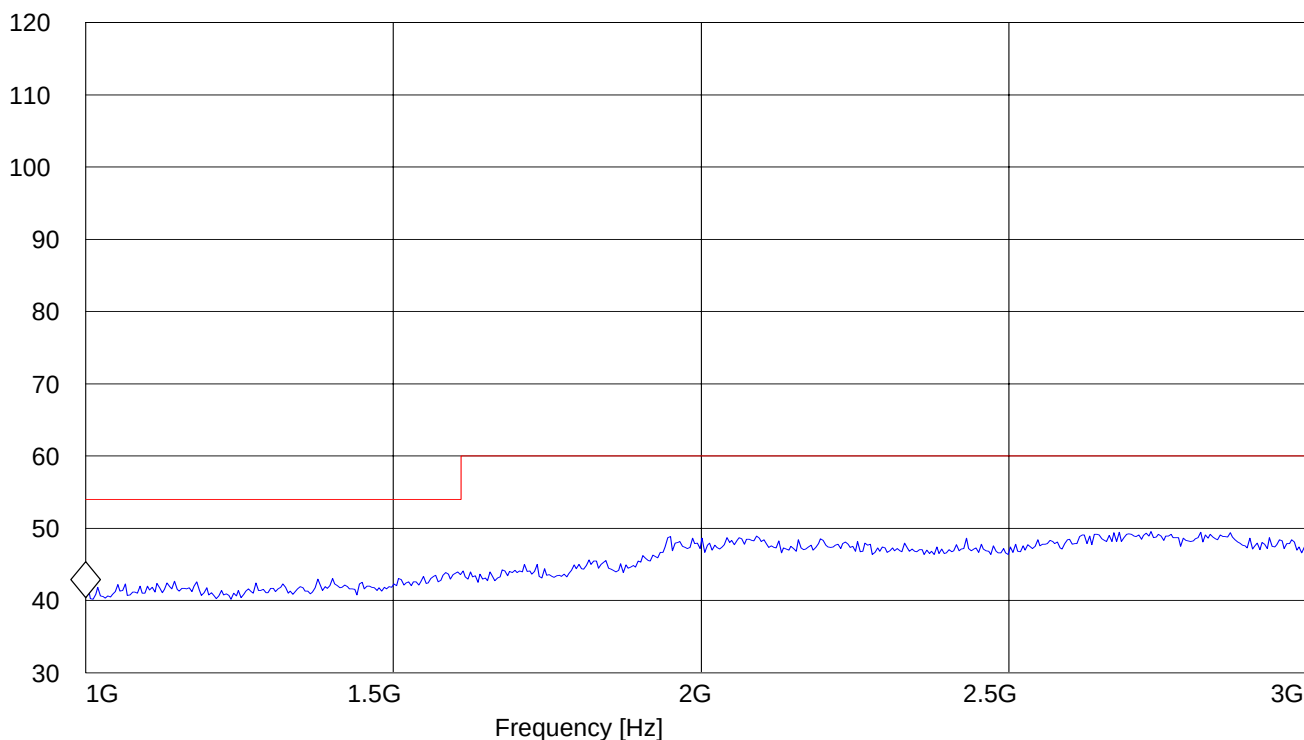
EUT in Idle Mode: 1GHz – 3GHz

SWEEP TABLE: "FCC Spuri 1-3G"

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

Marker: 1 GHz 40.39 dBμV/m

Level [dBμV/m]



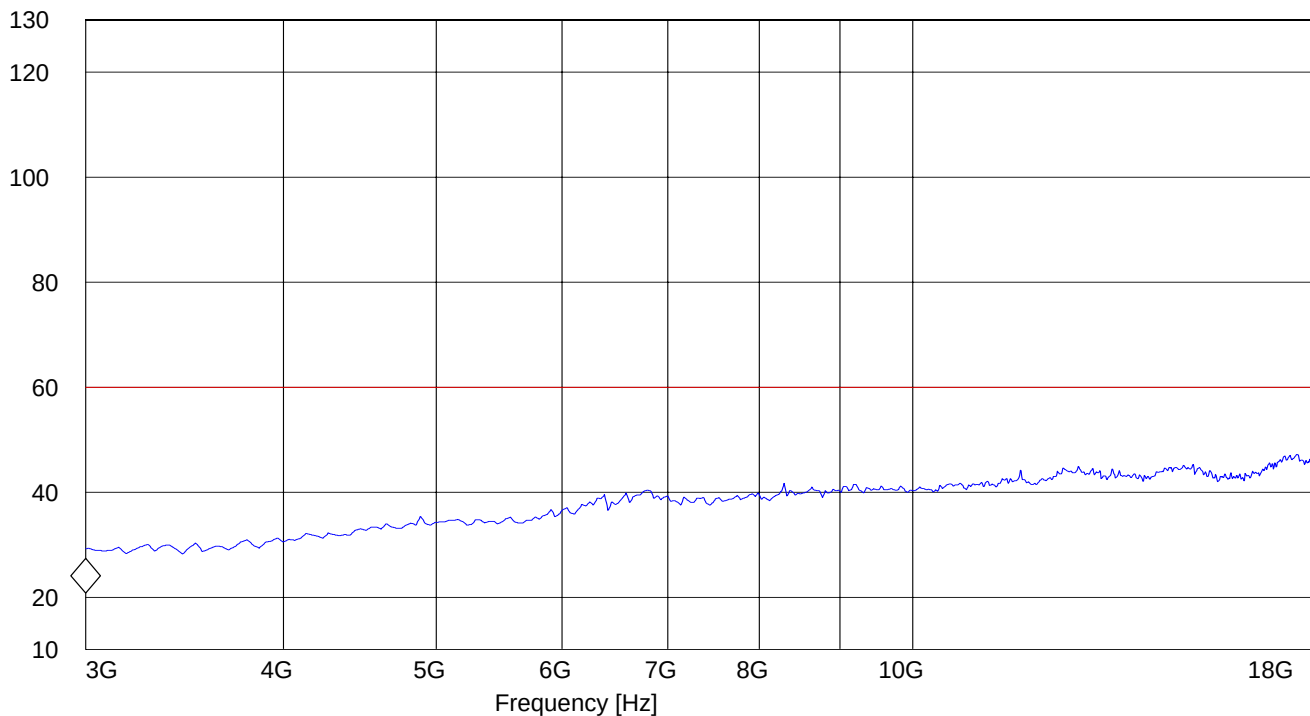
RECEIVER RADIATED EMISSIONS EUT in Idle Mode: 3GHz – 18GHz

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

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

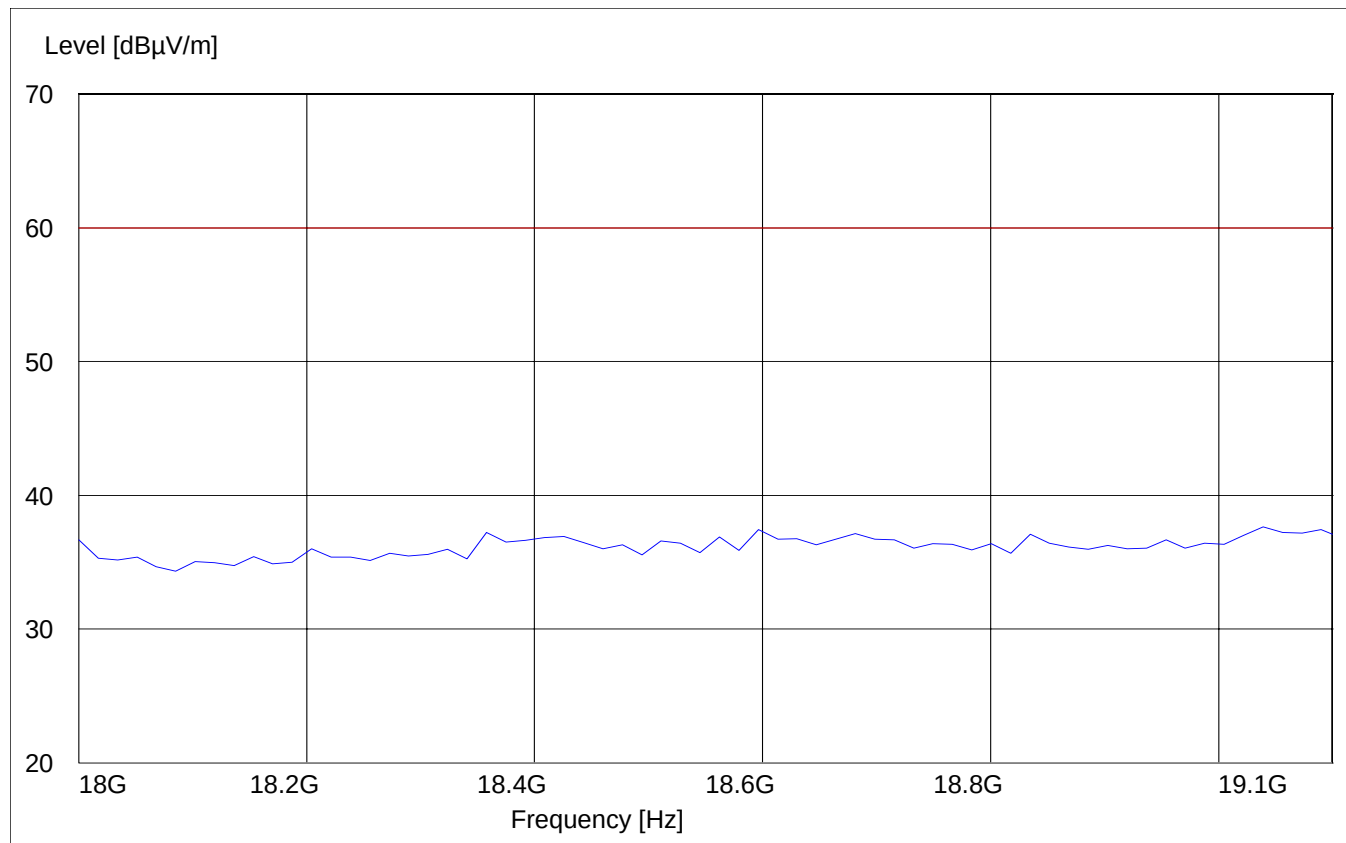
Marker: * 1 GHz 20.73 dB μ V/m

Level [dB μ V/m]



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



[illegible]

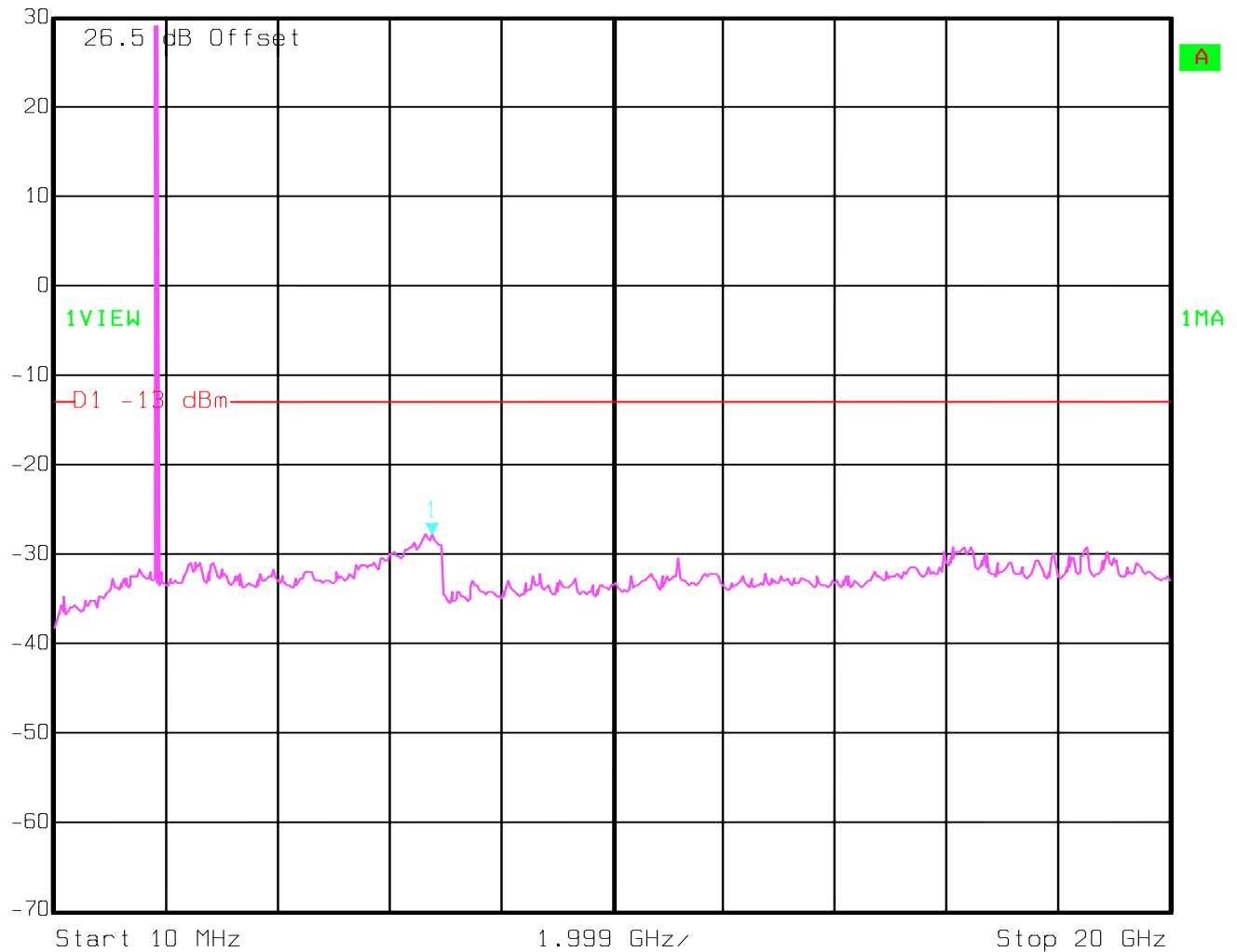
CONDUCTED SPURIOUS EMISSIONS

Channel 512: 30MHz – 20GHz

Spurious emission limit –13dBm

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

	Max/Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	20 dB
	30 dBm	-27.88 dBm	VBW	1 MHz		
	20 dBm	6.78016032 GHz	SWT	115 ms	Unit	dBm



Date: 10.JUN.2005 18:31:40

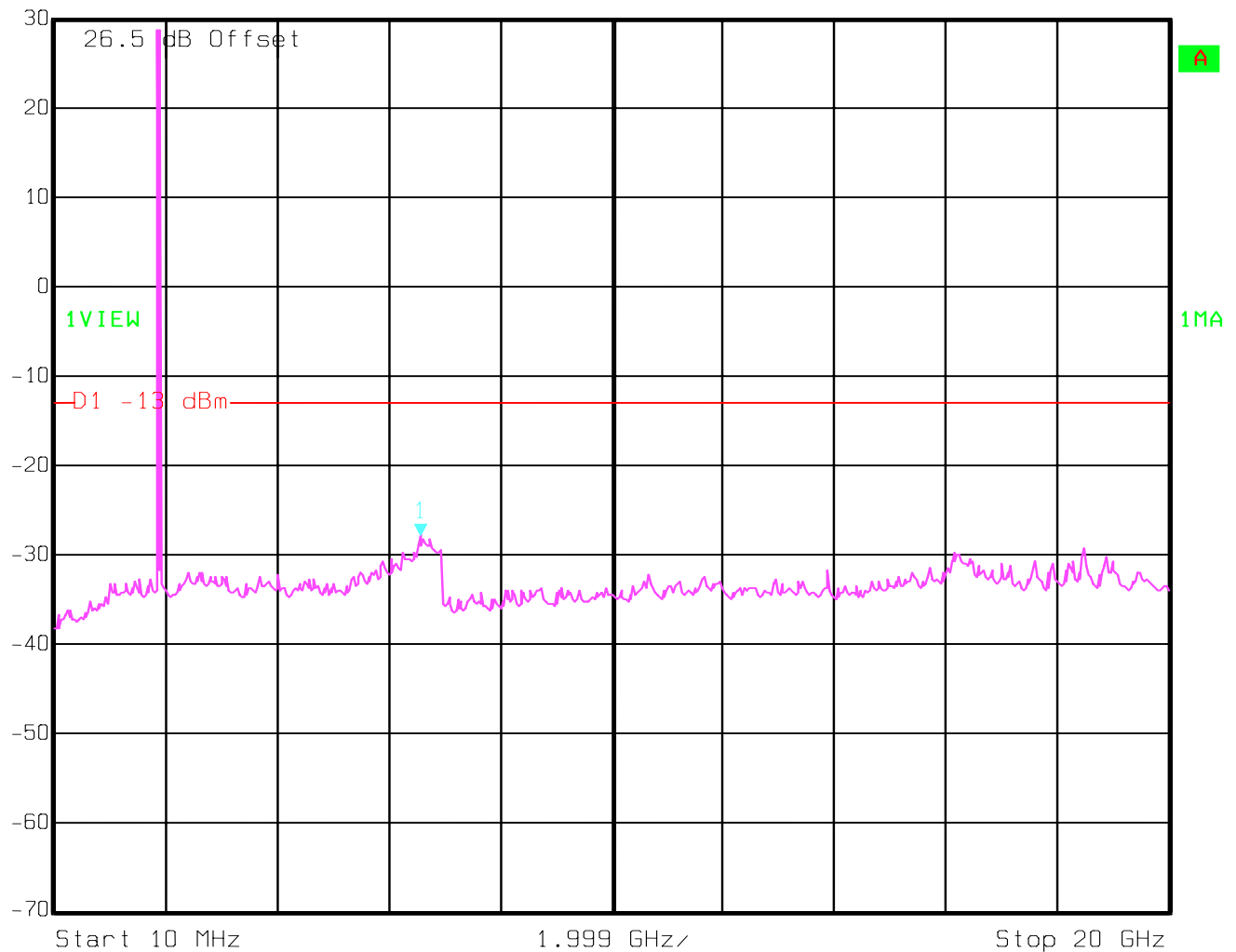
CONDUCTED SPURIOUS EMISSIONS

Channel 661: 30MHz – 20GHz

Spurious emission limit –13dBm

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

	Max/Ref Lvl	Marker 1 [T1]	RBW	1 MHz	RF Att	20 dB
	30 dBm	-27.99 dBm	VBW	1 MHz		
	20 dBm	6.57985972 GHz	SWT	115 ms	Unit	dBm



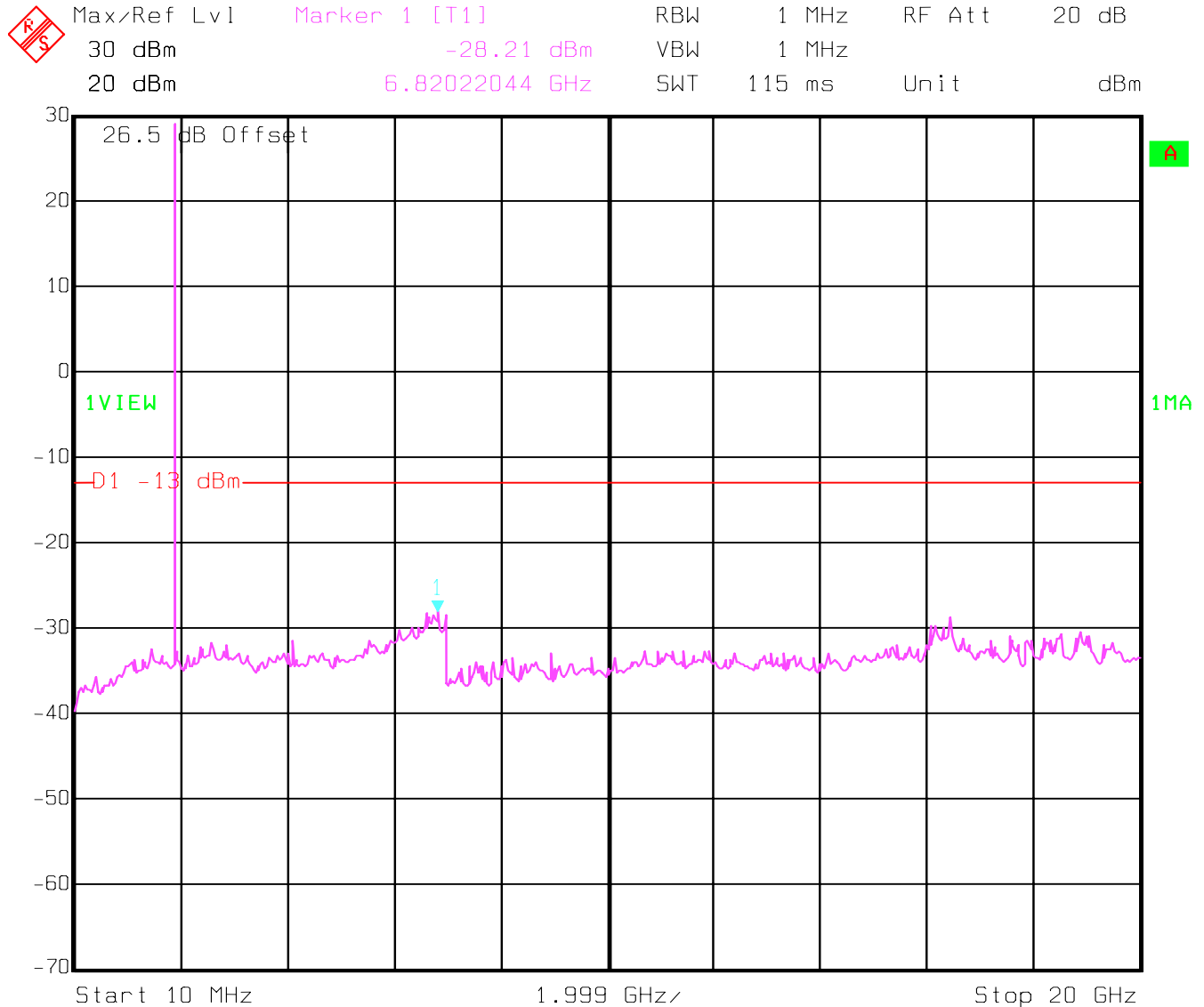
Date: 10.JUN.2005 18:35:18

CONDUCTED SPURIOUS EMISSIONS

Channel 810: 30MHz – 20GHz

Spurious emission limit –13dBm

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



Date: 10.JUN.2005 18:39:15

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)

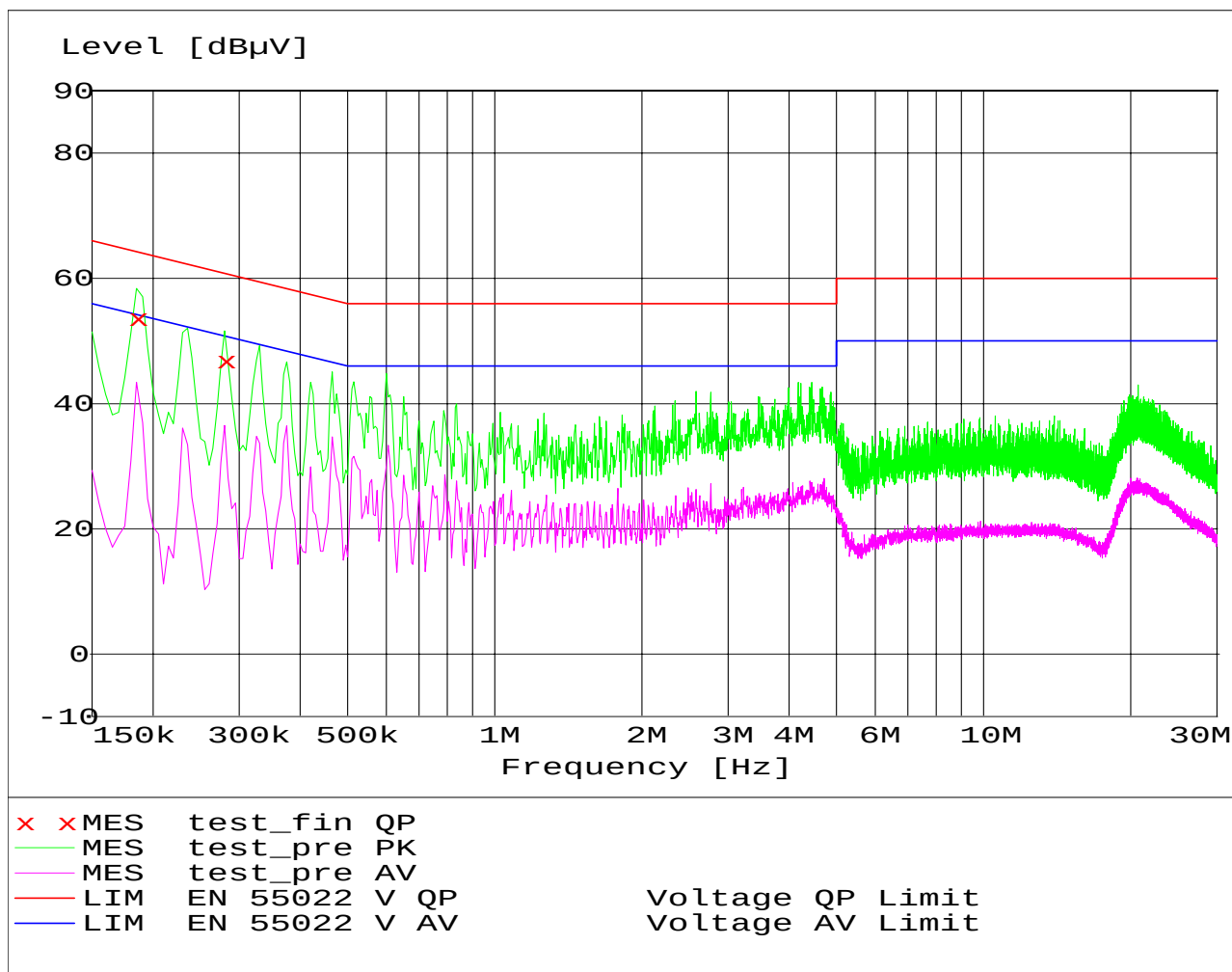
Limit

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



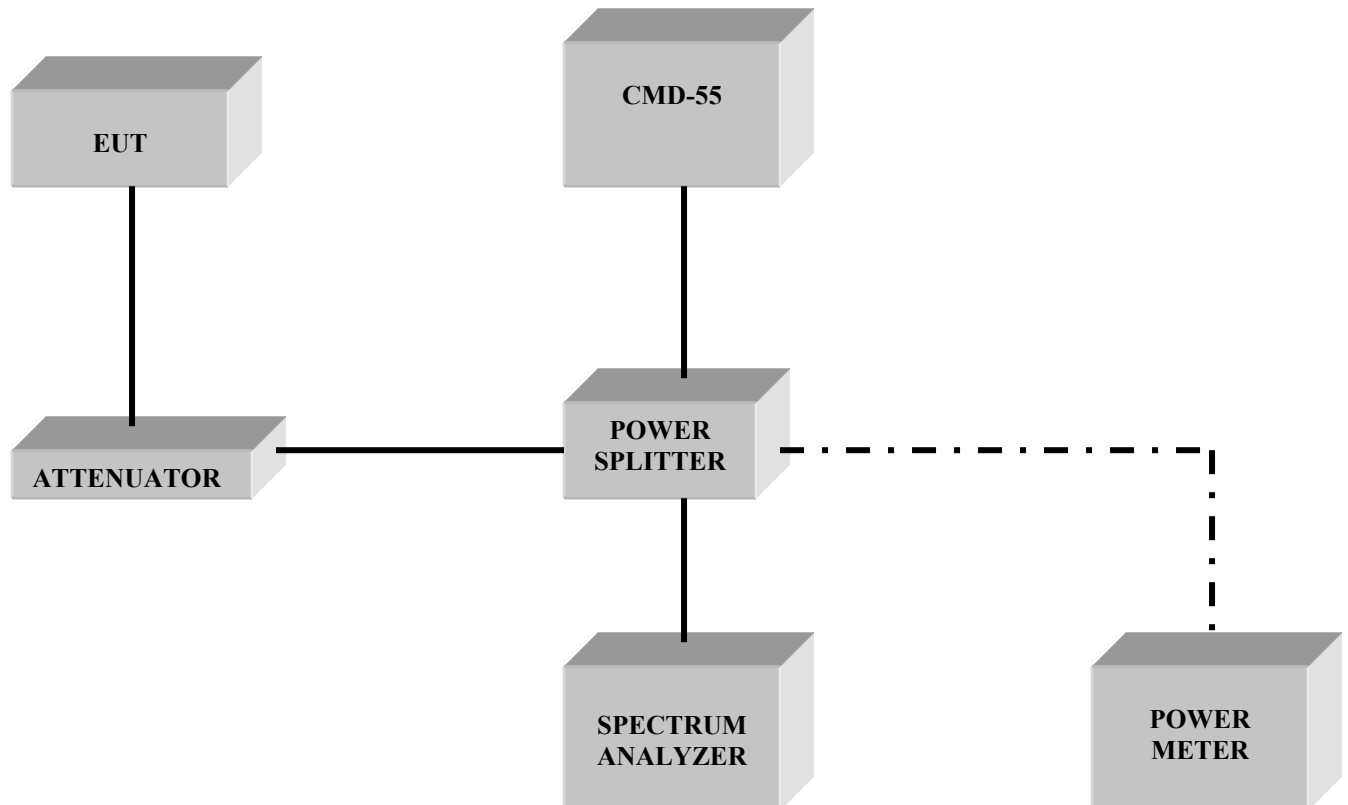
MEASUREMENT RESULT: "test_fin QP"

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Line	PE
0.185000	53.50	0.0	64	10.8	N	GND
0.280000	46.80	0.0	61	14.0	N	GND

TEST EQUIPMENT AND ANCILLARIES USED FOR TESTS

No	Instrument/Ancillary	Type	Manufacturer	Serial No.	Cal. Due
01	Spectrum Analyzer	ESIB 40	Rohde & Schwarz	100107	May 2006
02	Spectrum Analyzer	FSEM 30	Rohde & Schwarz	826880/010	May 2006
03	Signal Generator	SMY02	Rohde & Schwarz	836878/011	May 2006
04	Power-Meter	NRVD	Rohde & Schwarz	0857.8008. 02	May 2006
05	Biconilog Antenna	3141	EMCO	0005-1186	May 2006
06	Horn Antenna (1-18GHz)	SAS-200/571	AH Systems	325	May 2006
07	Horn Antenna (18-26.5GHz)	3160-09	EMCO	1240	May 2006
08	Power Splitter	11667B	Hewlett Packard	645348	n/a
09	Climatic Chamber	VT4004	Voltsch	G1115	n/a
10	High Pass Filter	5HC2700	Trilithic Inc.	9926013	n/a
11	High Pass Filter	4HC1600	Trilithic Inc.	9922307	n/a
12	Pre-Amplifier	JS4-00102600	Miteq	00616	May 2006
13	Power Sensor	URV5-Z2	Rohde & Schwarz	DE30807	May 2006
14	Digital Radio Comm. Tester	CMD-55	Rohde & Schwarz	847958/008	May 2006
15	Universal Radio Comm. Tester	CMU 200	Rohde & Schwarz	832221/06	May 2006

BLOCK DIAGRAMS
Conducted Testing



Radiated Testing

ANECHOIC CHAMBER

