



Nemko Test Report: 6L0801RUS1rev5

Applicant: E. F. Johnson
1440 Corporate Drive
Irving, TX 75038

**Equipment Under Test:
(E.U.T.)** 242-5377-001AAYB6

In Accordance With: **FCC Part 90, Subpart I**
Private Land Mobile Transmitter

Tested By: Nemko USA Inc.
802 N. Kealy
Lewisville, TX 75057-3136

TESTED BY:

David Light, Senior Wireless Engineer

DATE: 31-August, 2007

APPROVED BY:

DATE: 31-August, 2007

Total Number of Pages: 51

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EQUIPMENT: 242-5377-001AAYB6PROJECT NO.: 6L0801RUS1rev5

Section 1. Summary of Test Results

Manufacturer: E. F. Johnson

Model No.: 242-5377-001AAYB6

Serial No.: Prototype

General: **All measurements are traceable to national standards.**

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with FCC Part 90, Subpart I. EIA/TIA 603 was used as a test method for these measurements.



New Submission



Production Unit



Class II Permissive Change



Pre-Production Unit

THIS TEST REPORT RELATES ONLY TO THE ITEM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE.

See " Summary of Test Data".

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EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Summary Of Test Data

NAME OF TEST	PARA. NO.	RESULT
RF Power Output	90.205	Complies
Audio Frequency Response	TIA EIA-603.3.2.6	Complies
Audio Low-Pass Filter Response	TIA EIA-603.3.2.6	Complies
Modulation Limiting	TIA EIA-603.3.2.6	Complies
Occupied Bandwidth	90.210	Complies
Spurious Emissions at Antenna Terminals	90.210	Complies
Field Strength of Spurious Emissions	90.210	Complies
Frequency Stability	90.213	Complies
Transient Frequency Behavior	90.214	NA
Adjacent Channel Power	90.543	Complies

Footnotes:

Transient Frequency Behavior is not required for this frequency band.

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EQUIPMENT: 242-5377-001AAYB6

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Section 2. General Equipment Specification

Transmitter

Supply Voltage Input:	13.6 Vdc										
Frequency Range:	762 to 776 MHz 792 to 806 MHz - 806 to 824 MHz 851 to 869 MHz										
Type(s) of Modulation:	<table><tr><td>F3E (Voice)</td><td>F1D</td><td>F2D</td><td>D7W (QAM)</td><td>Other</td></tr><tr><td>☒</td><td>☒</td><td>☐</td><td>☐</td><td>☐</td></tr></table>	F3E (Voice)	F1D	F2D	D7W (QAM)	Other	☒	☒	☐	☐	☐
F3E (Voice)	F1D	F2D	D7W (QAM)	Other							
☒	☒	☐	☐	☐							
Emission Designator:	16K0F3E, 14K0F3E, 11K0F3E, 8K10F1E*, 8K10F1D* * The two modulations have the same characteristics and need to be tested only once. The only difference is in the application of the bit stream, either data or vocoded voice.										
Output Impedance:	50 ohms										
RF Power Output (rated):	35 watts										
Channel Spacing(s):	12.5 kHz, 25 kHz										
Operator Selection of Operating Frequency:	Pre-programmed channel selection										
Power Output Adjustment Capability:	Manual										

EQUIPMENT: **242-5377-001AAYB6**

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System Description

35 Watt 700/800 MHz Land Mobile Radio transceiver.

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Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 1046
TESTED BY: Kevin Rose	DATE: 10 Jan. 2007

Measurement Results: Complies.**Measurement Data:**

Channel MHz	Output Power (dBm)	Output Power (W)
769.0125	44.52	28.31
799.0125	44.42	27.67
814.5125	45.79	37.93
859.5125	45.63	36.55

Channel MHz	Output Power (dBm)	Output Power (W)
769.0125	40.21	10.49
799.0125	39.92	9.82
814.5125	39.90	9.78
859.5125	40.13	10.30

EQUIPMENT: 242-5377-001AAYB6PROJECT NO.: 6L0801RUS1rev5

Section 4. Modulation Characteristics

NAME OF TEST: Modulation Characteristics	PARA. NO.: 2.1047
TESTED BY: Kevin Rose	DATE: 10 Jan. 2007

Measurement Results: Complies.**Measurement Data:** See following pages

Description of modulation: Modulation input to the radio is voice via a microphone. The radio has three modes of operation:

- 1) Narrow band voice for 12.5 kHz channels
- 2) Wideband voice for 25 kHz channels
- 3) Data modulation. In this mode the voice input signal goes through a Vocoder to translate the audio to data.

Description of base band filters: The radio has a low-pass audio filter.

Equipment Used: 1036-1081-1535

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

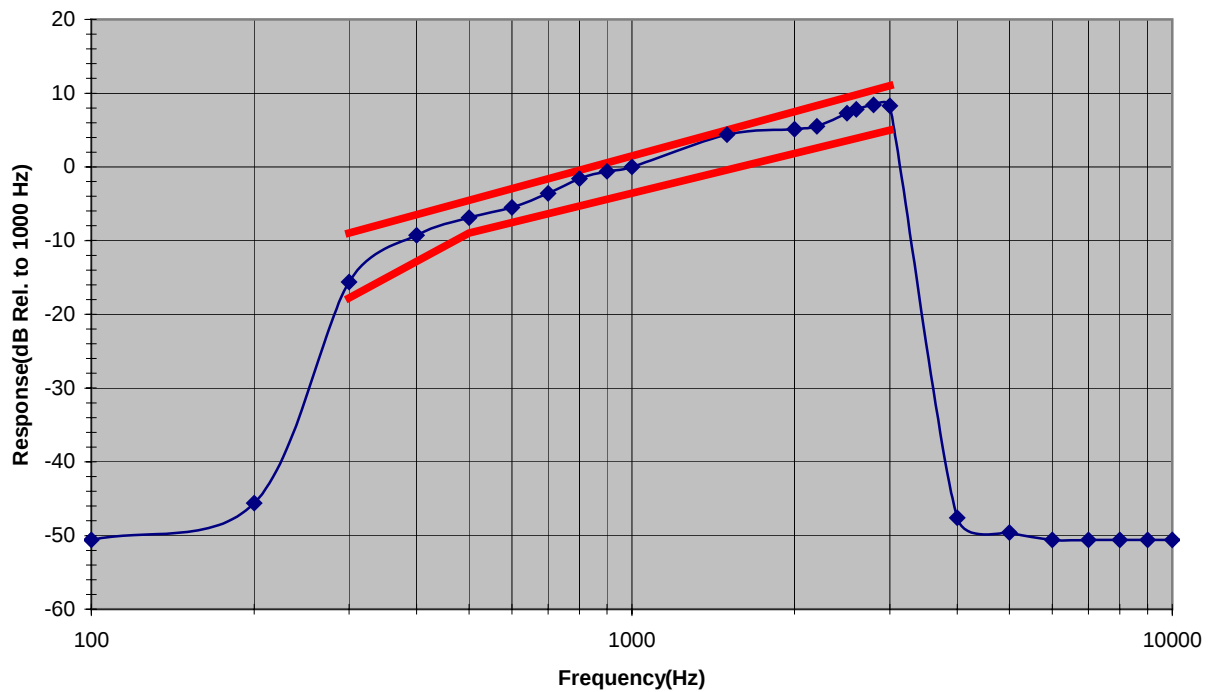
Section 4.1 Audio Frequency Response

NAME OF TEST: Audio Frequency Response

PARA. NO.: 2.1047(a)

TESTED BY: Kevin Rose

DATE: 10 Jan. 2007



EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Section 4.2 Audio Low-Pass Filter Response

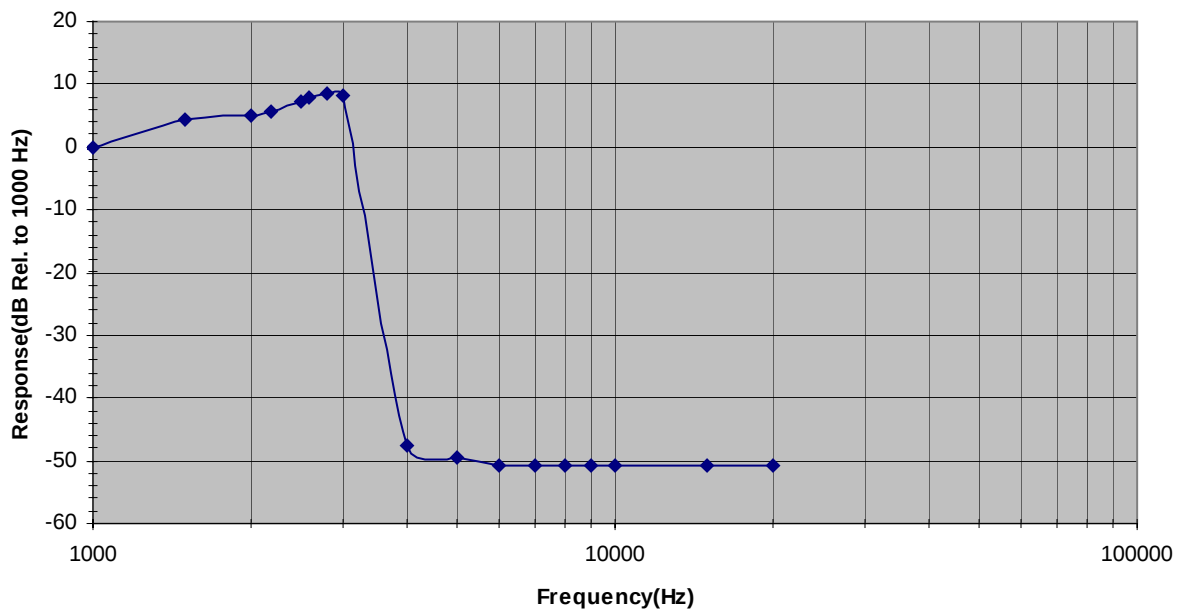
NAME OF TEST: Audio Low-Pass Filter Response

PARA. NO.: 2.1047(a)

TESTED BY: Kevin Rose

DATE: 10 Jan. 2007

AF Low Pass Filter Response(dB Rel. to 1000 Hz)



EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

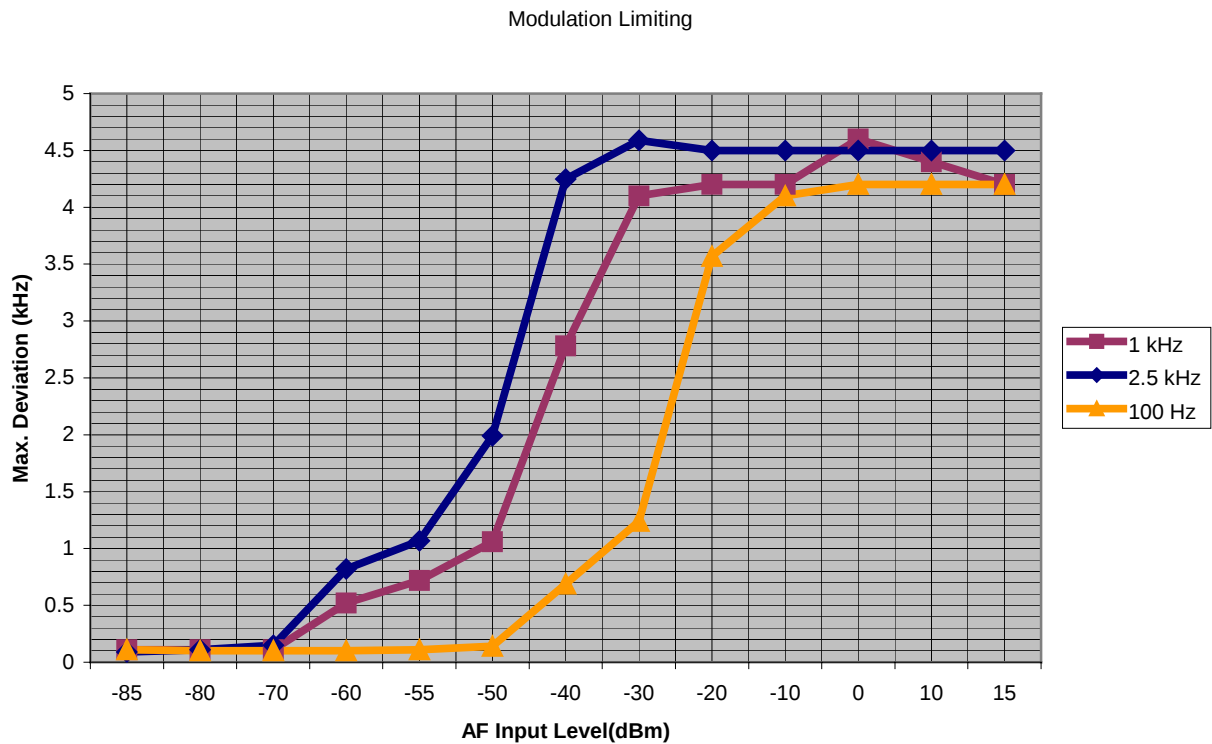
Section 4.3 Modulation Limiting

NAME OF TEST: Modulation Limiting

PARA. NO.: 2.1047(b)

TESTED BY: Kevin Rose

DATE: 10 Jan. 2007



Maximum deviation for non-voice modulation: +/-3 kHz.

EQUIPMENT: 242-5377-001AAYB6

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Section 5. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.1049
TESTED BY: Kevin Rose	DATE: 10 Jan. 2007

Measurement Results: Complies.

Measurement Data: See attached data

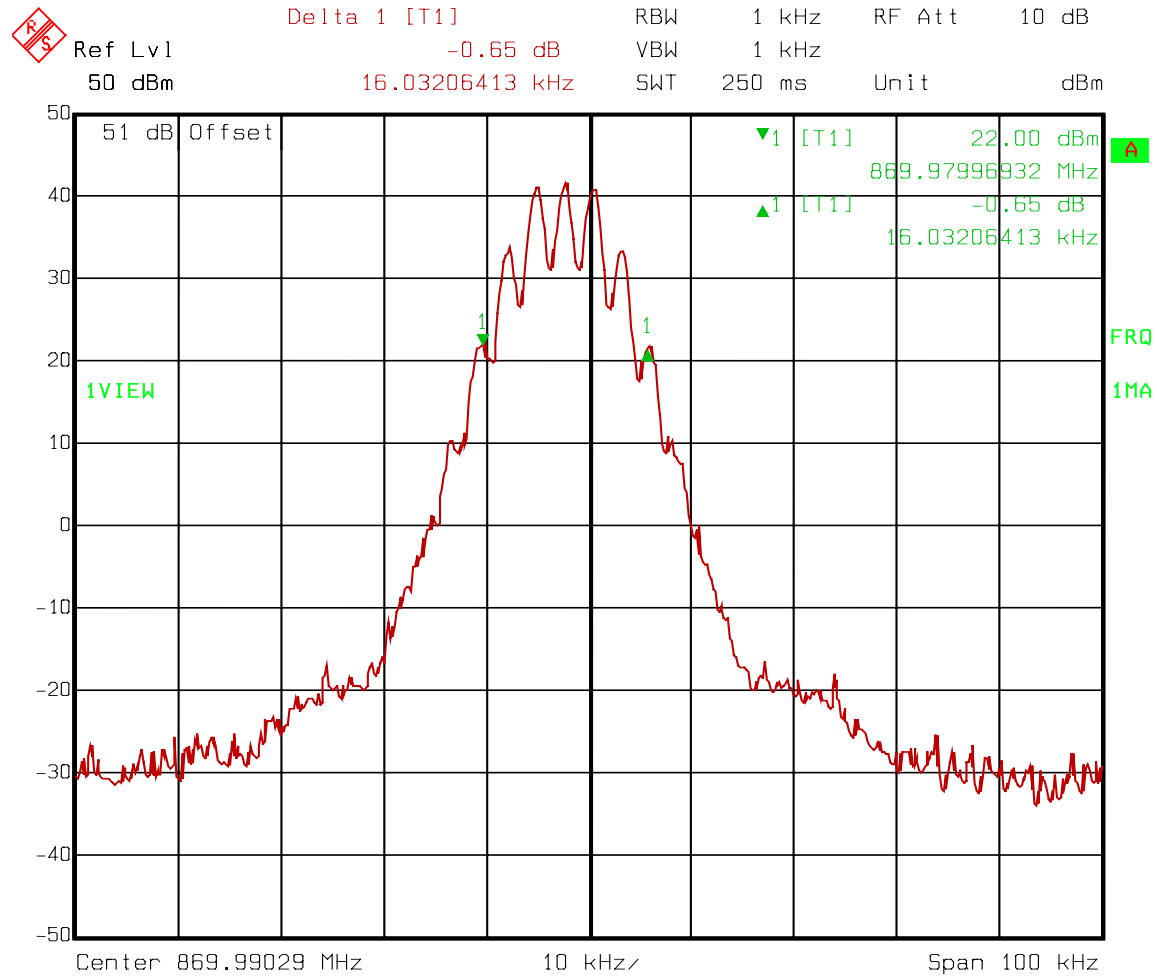
All emission masks were configured per part 2.1047

Equipment Used: 1036-1081-1535

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

16K0F3E



Date: 24.AUG.2007 16:12:53

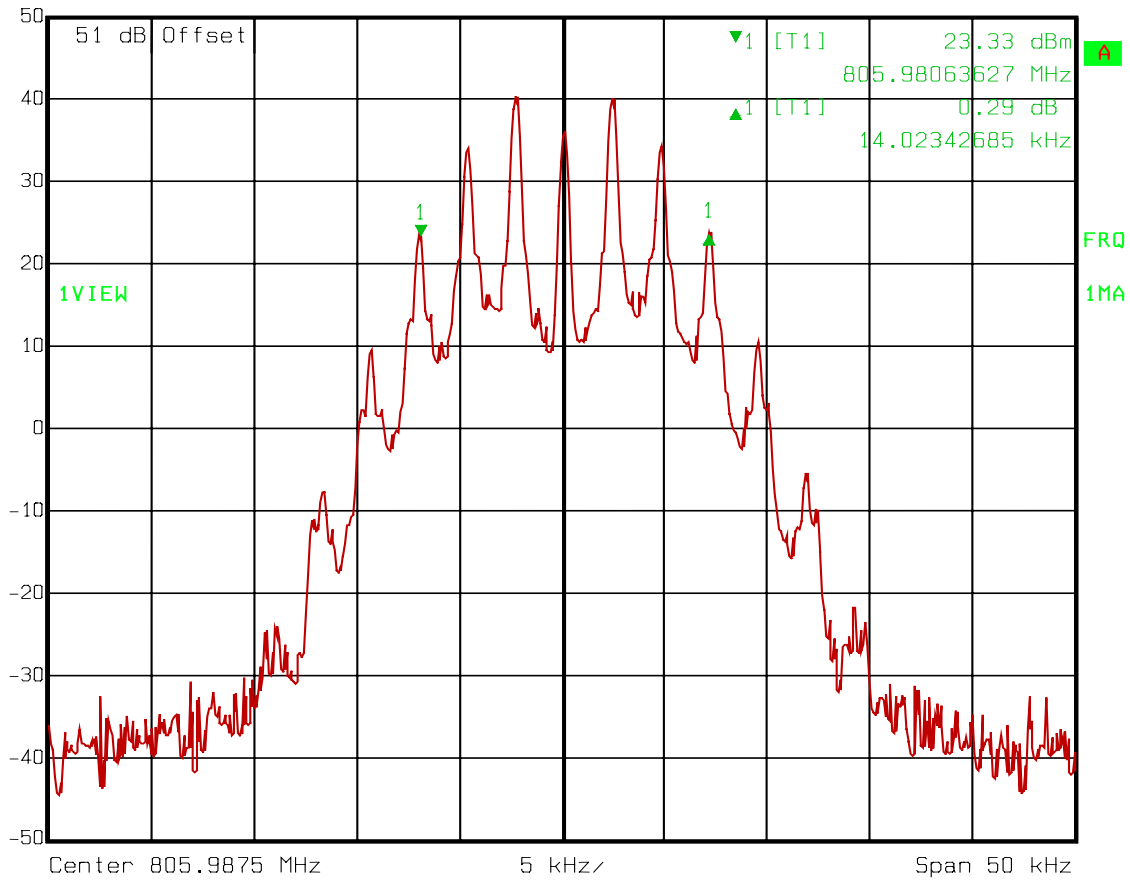
EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

14K0F3E



Delta 1 [T1] RBW 300 Hz RF Att 10 dB
Ref Lvl 0.29 dB VBW 300 Hz
50 dBm 14.02342685 kHz SWT 2.8 s Unit dBm



Date: 27.AUG.2007 09:09:23

PROJECT NO.: 6L0801RUS1rev5

Ref Lvl 50 dBm
Delta 1 [T1] 1.11 dB
-11.00162325 kHz
RBW 300 Hz
VBW 300 Hz
SWT 2.8 s
Unit dBm

51 dB Offset
1VIEW
▼1 [T1] 18.30 dBm
▲1 [T1] 805.99296092 MHz
1.11 dB
-11.00162325 kHz

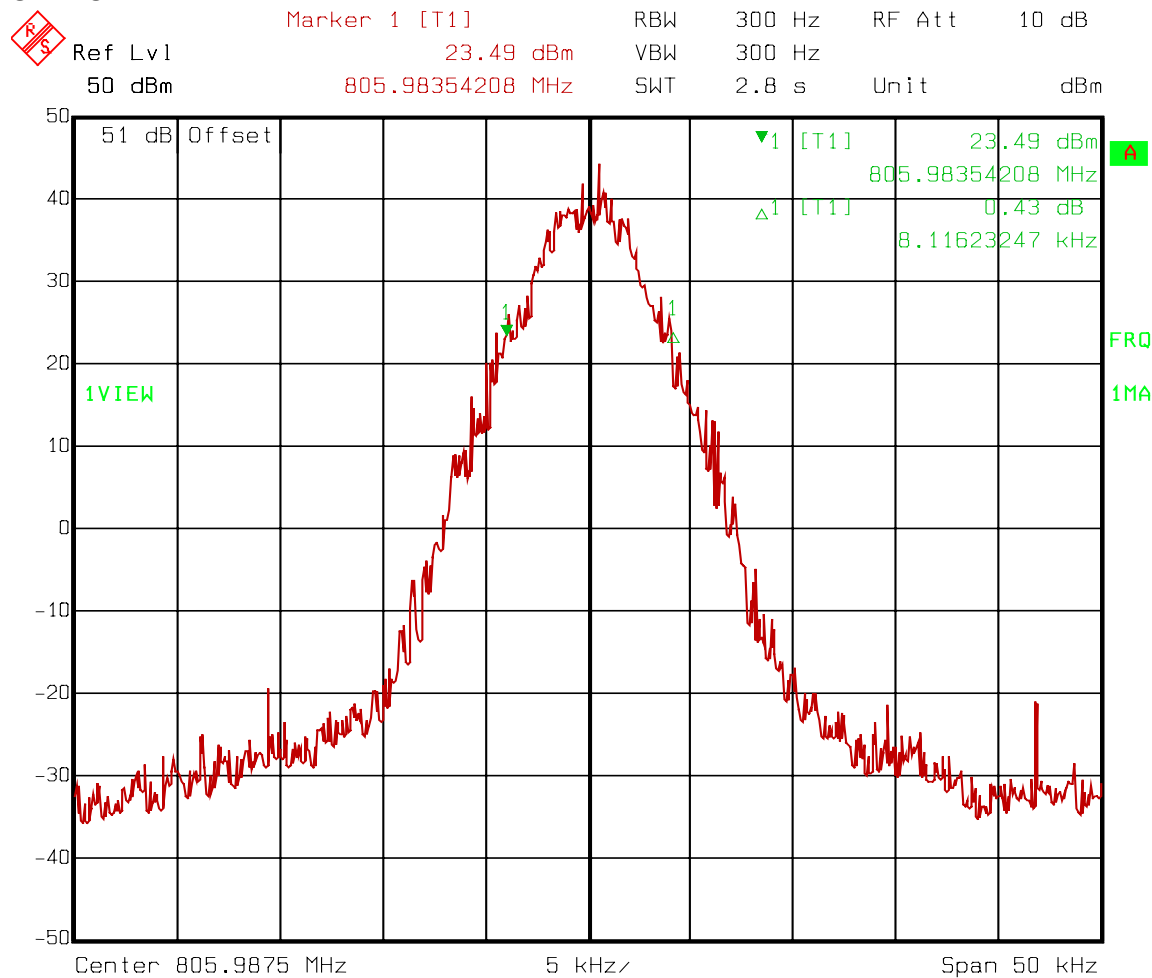
Center 805.9875 MHz
5 kHz
Span 50 kHz

Date: 27.AUG.2007 09:14:13

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

8K1F3D

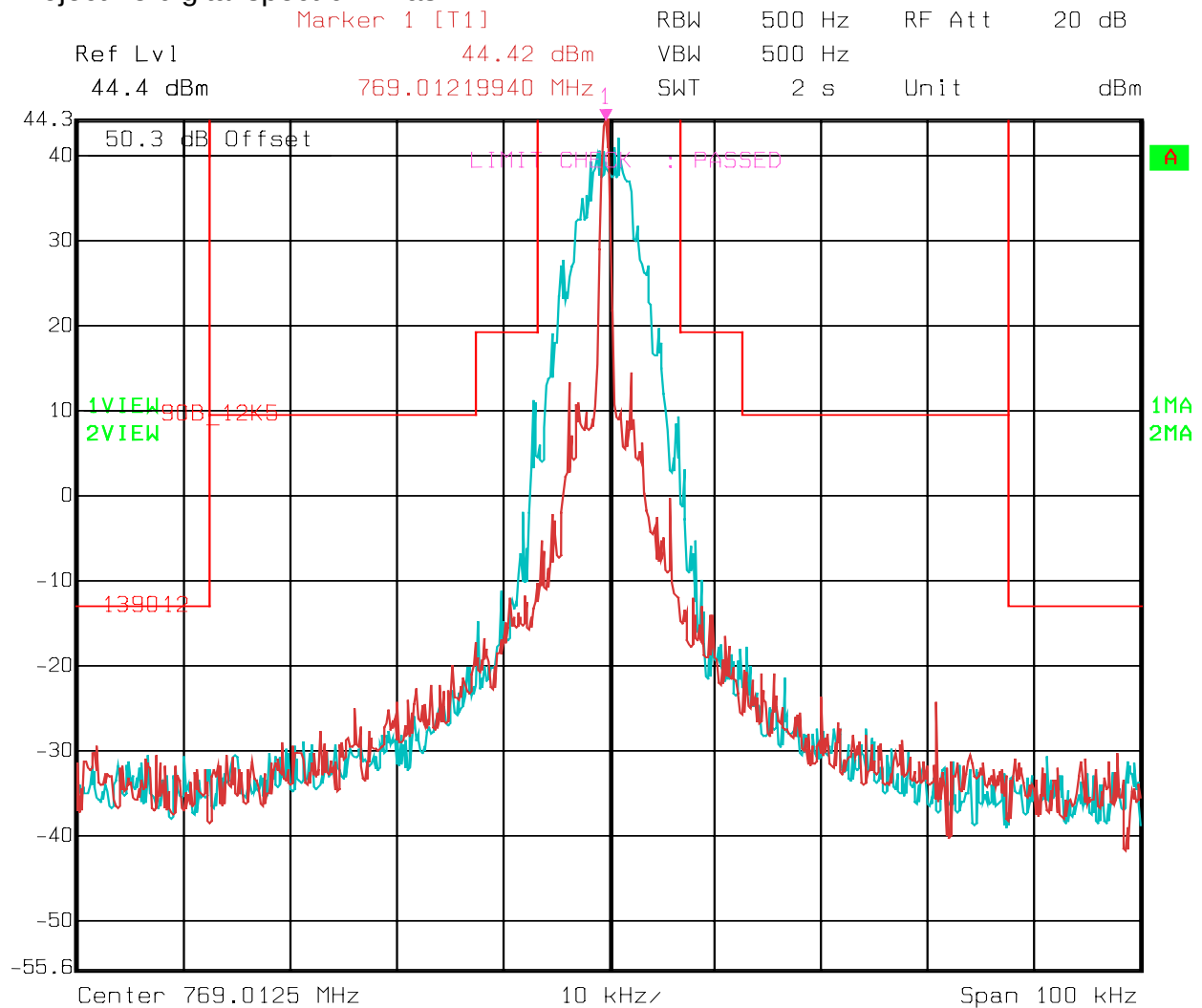


Date: 27.AUG.2007 09:17:10

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Project 25 digital spectrum mask

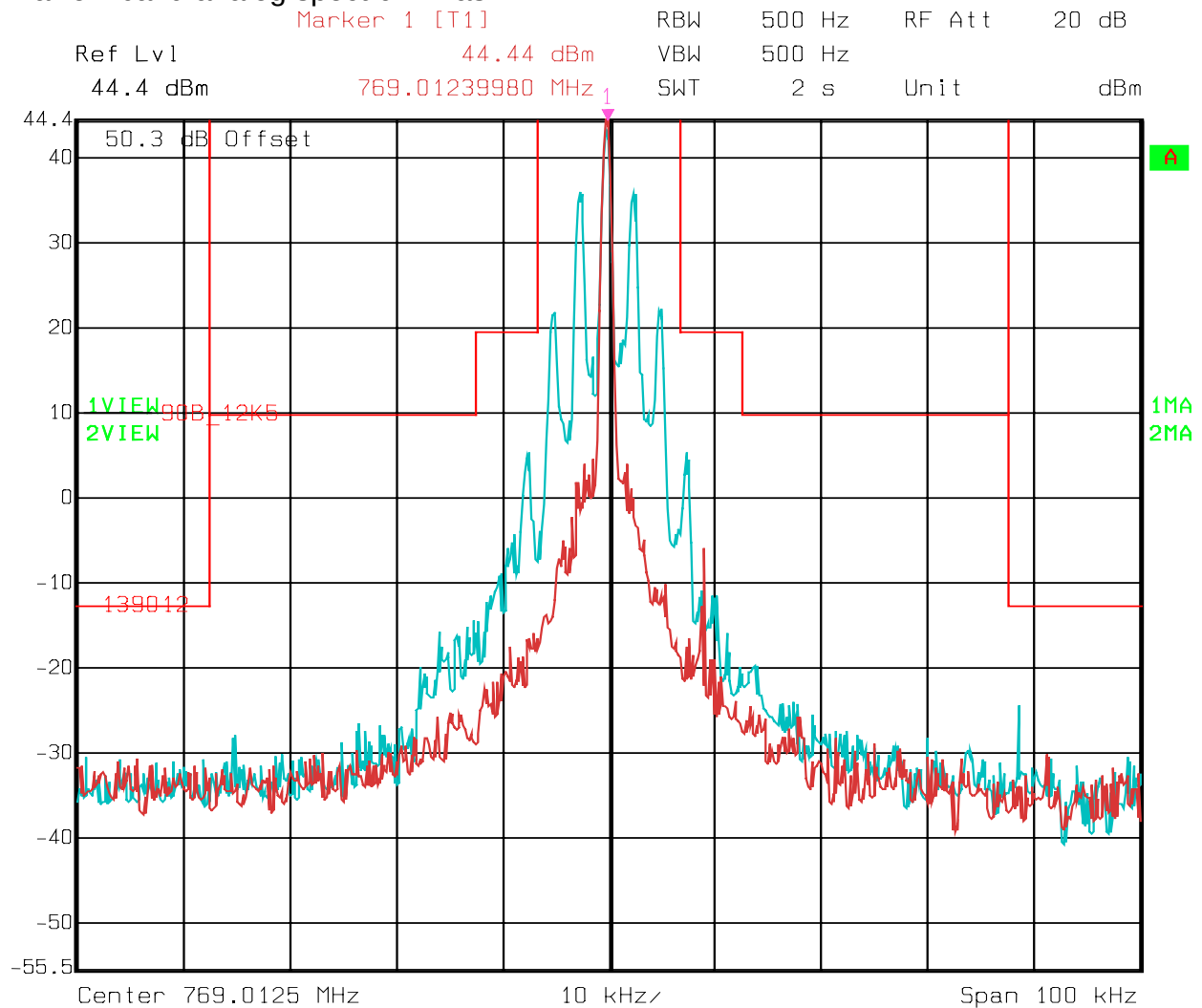


Date: 10.JAN.2007 12:03:40

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Narrow band analog spectrum mask

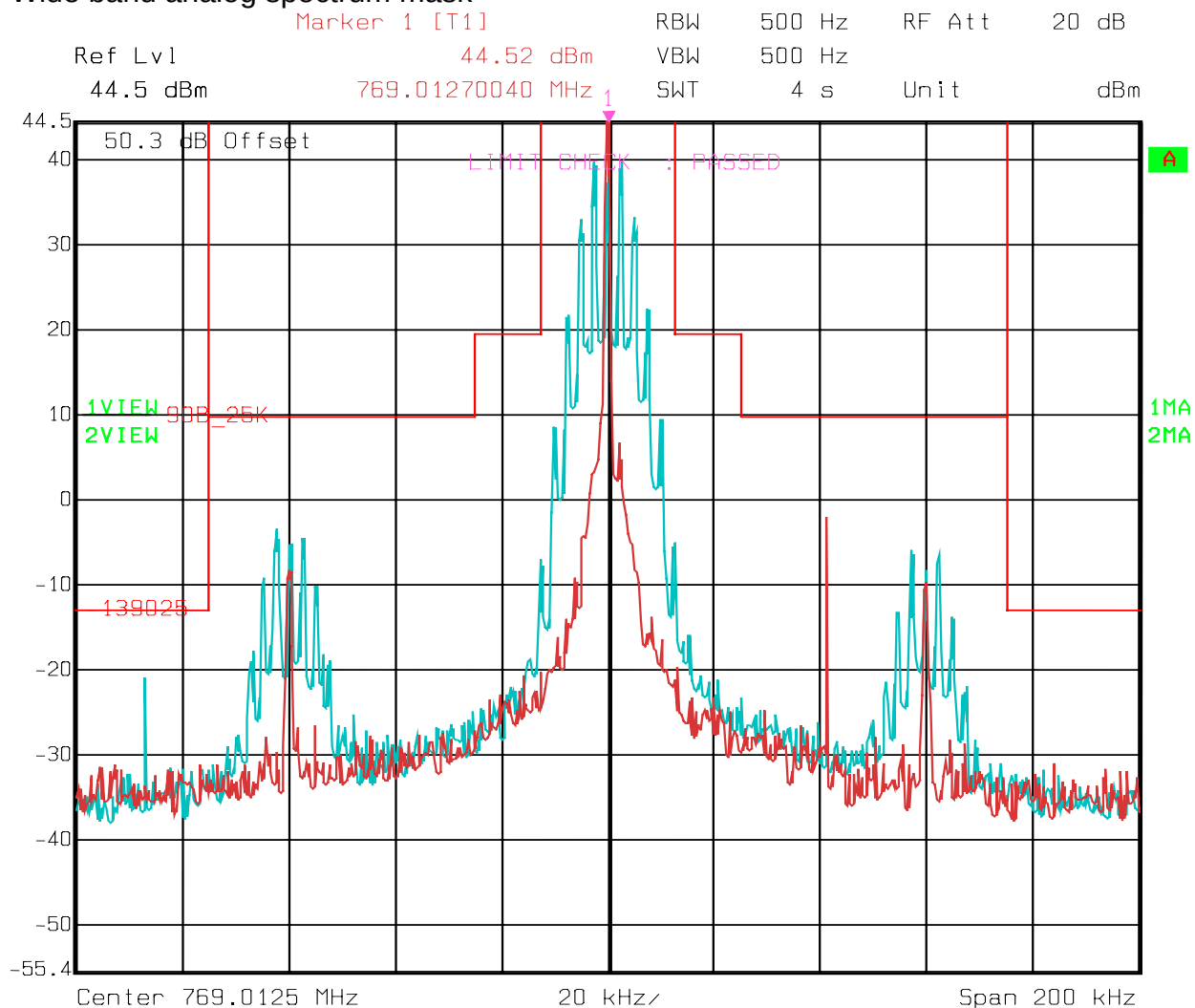


Date: 10.JAN.2007 11:45:13

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Wide band analog spectrum mask

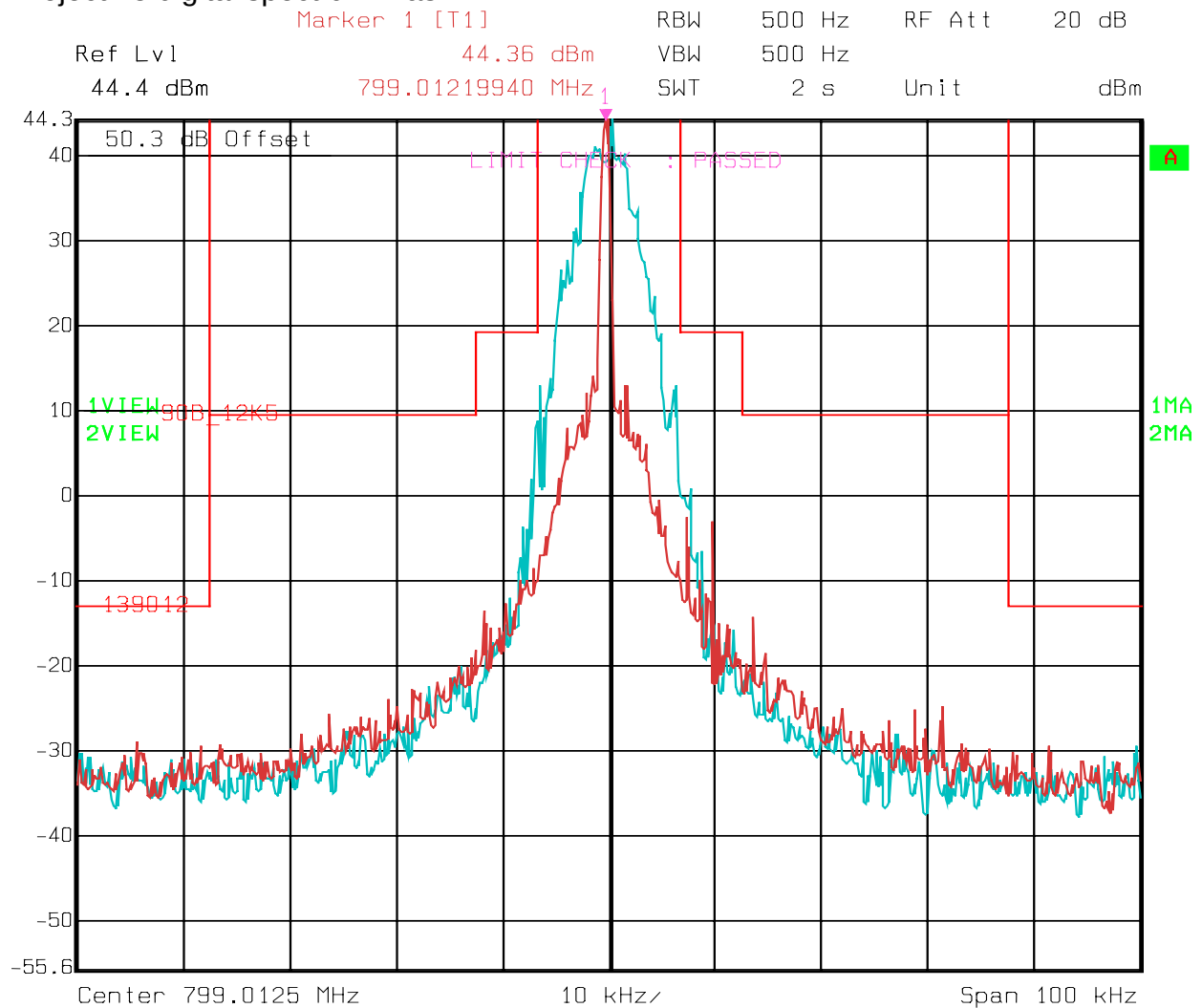


Date: 10.JAN.2007 11:06:17

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Project 25 digital spectrum mask

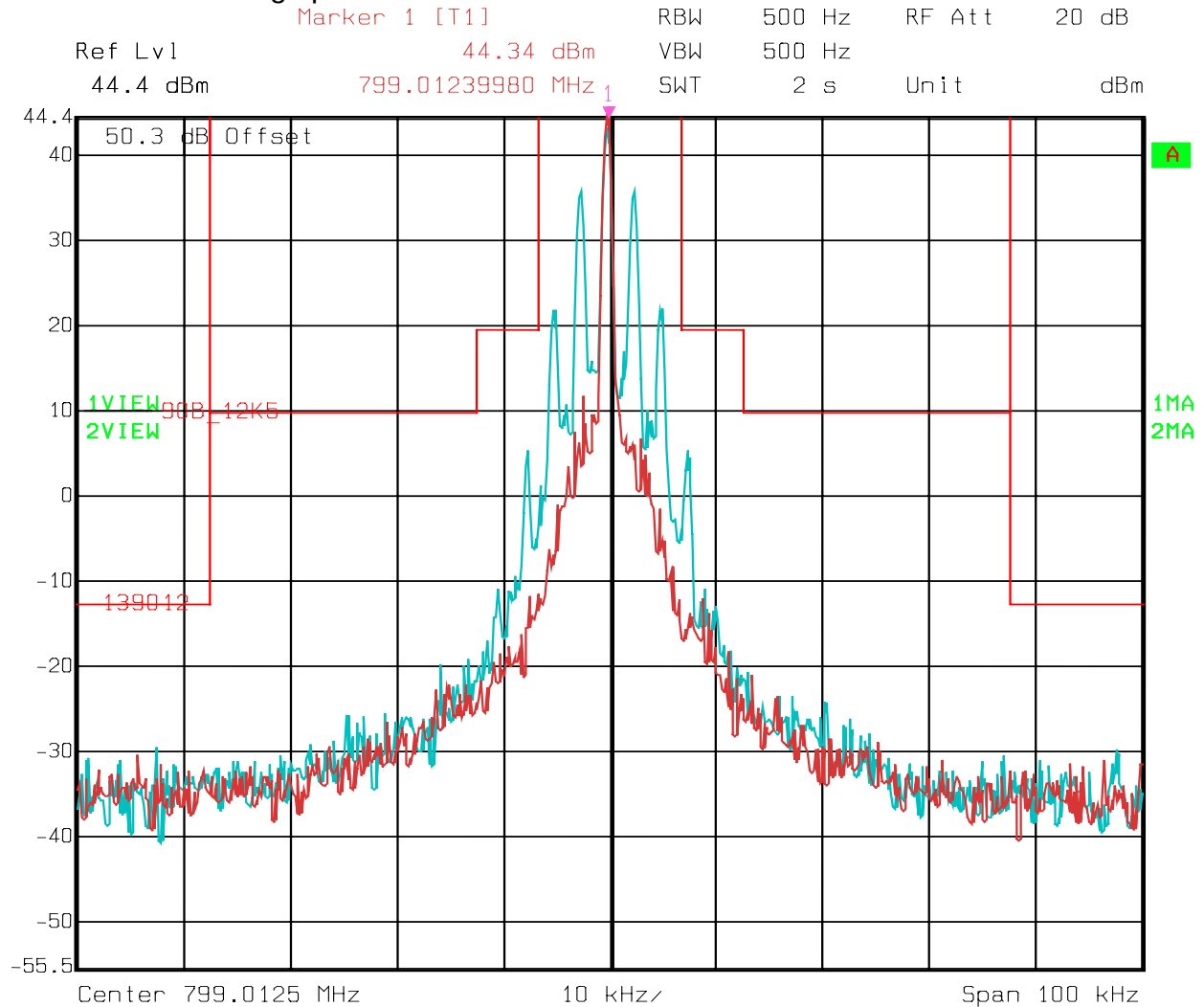


Date: 10.JAN.2007 12:01:25

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Narrow band analog spectrum mask

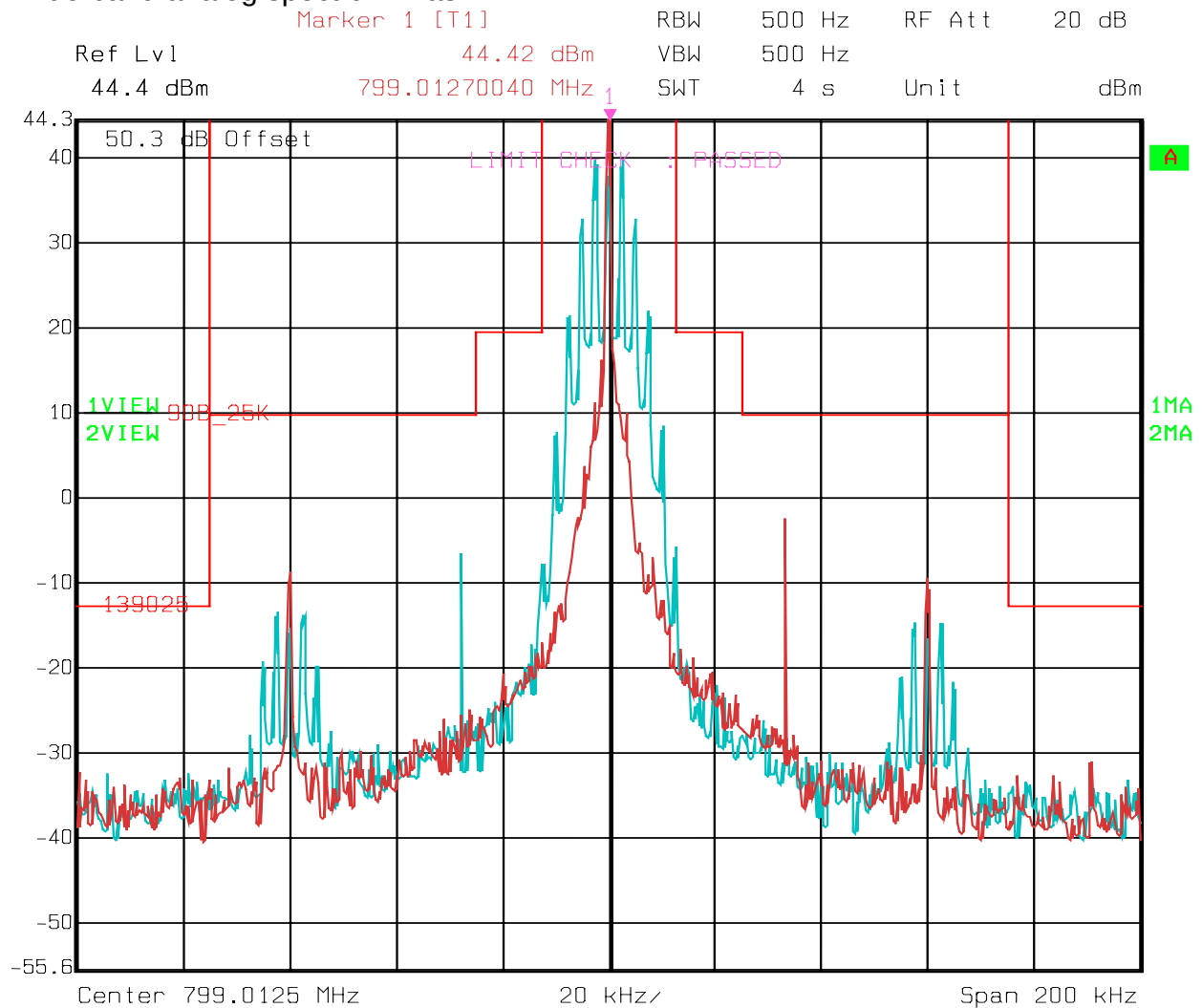


Date: 10.JAN.2007 11:47:10

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Wide band analog spectrum mask

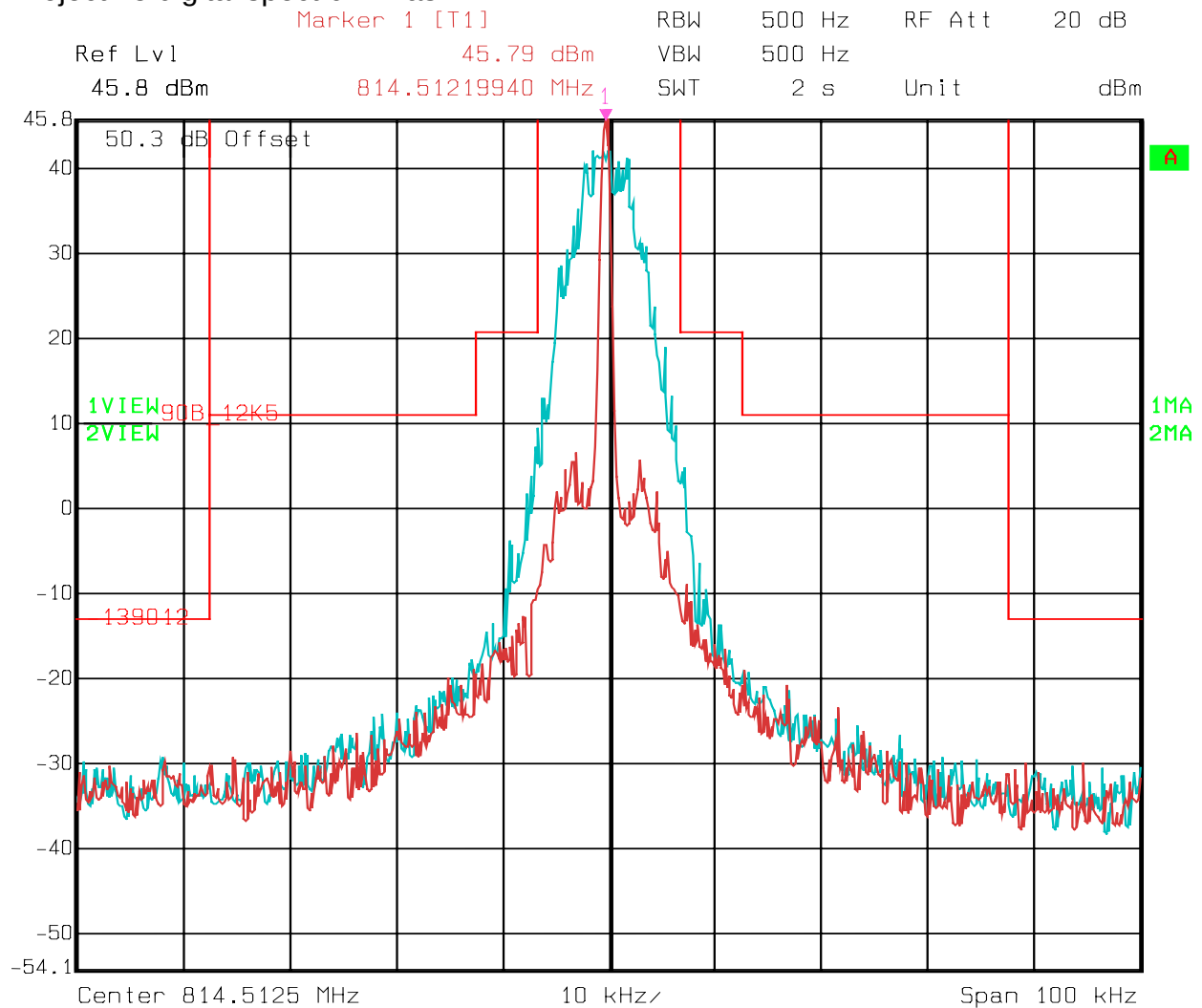


Date: 10.JAN.2007 11:12:22

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Project 25 digital spectrum mask



Date: 10.JAN.2007 11:59:48

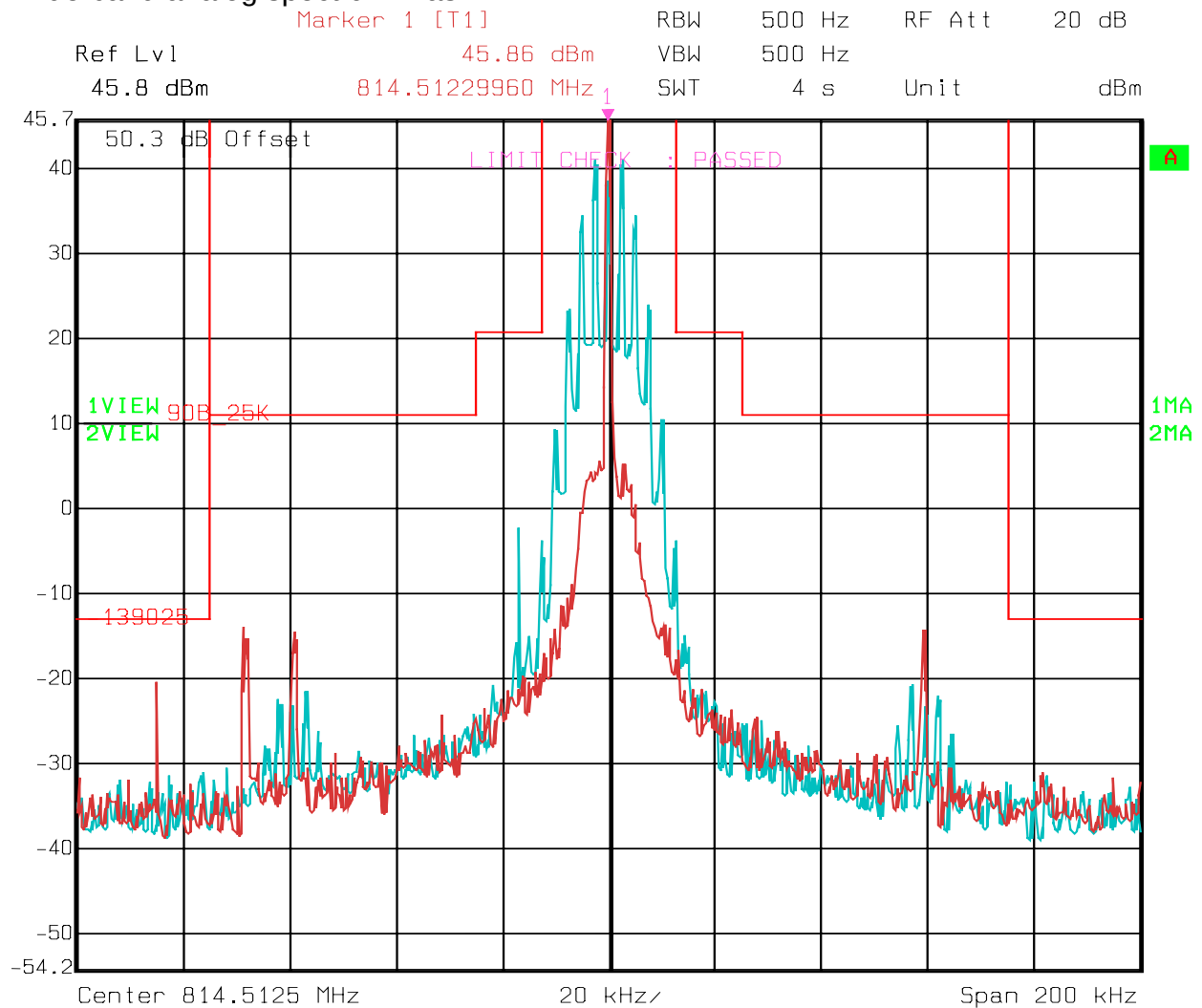
PROJECT NO.: 6L0801RUS1rev5

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EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Wide band analog spectrum mask

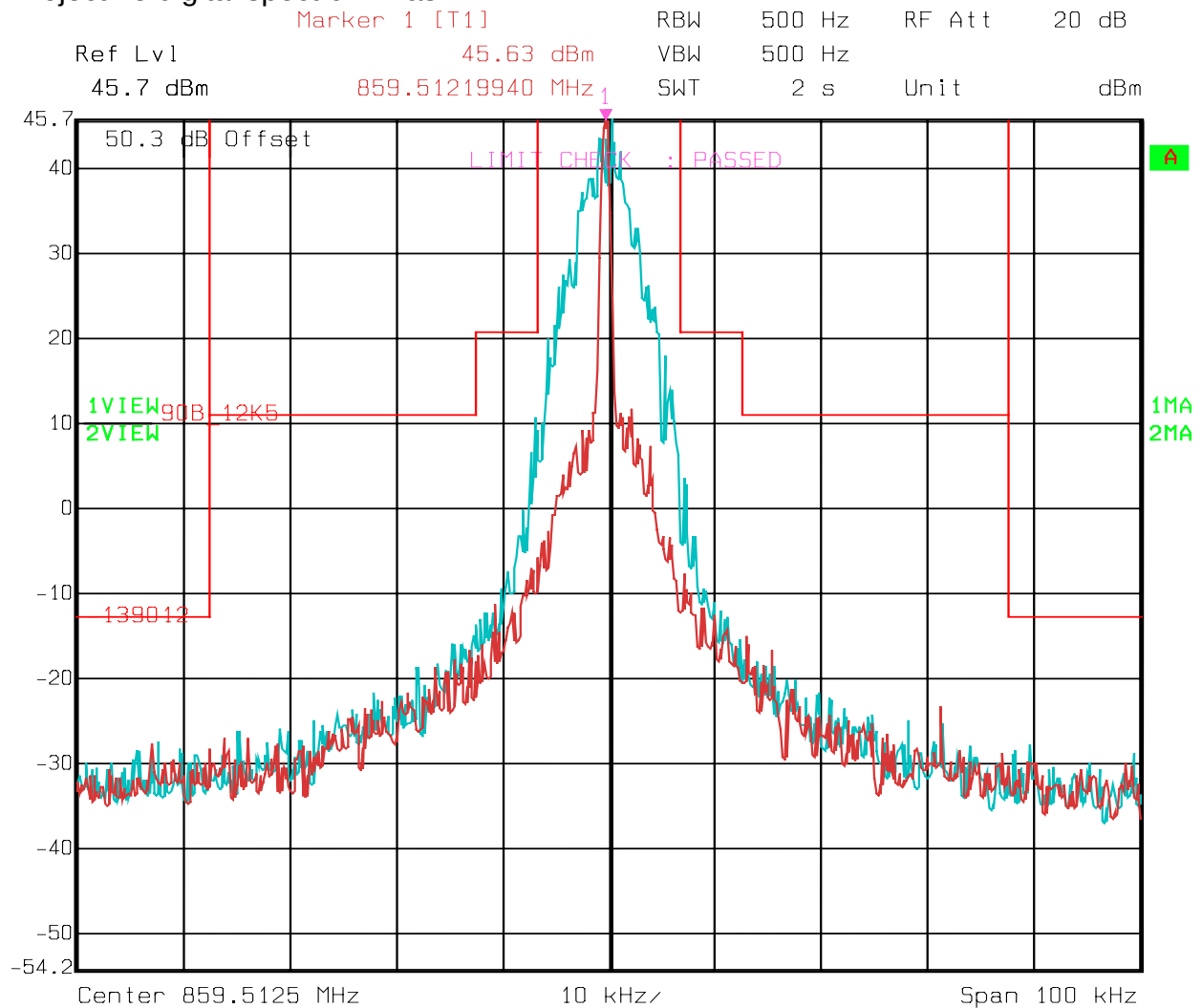


Date: 10.JAN.2007 11:35:41

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Project 25 digital spectrum mask

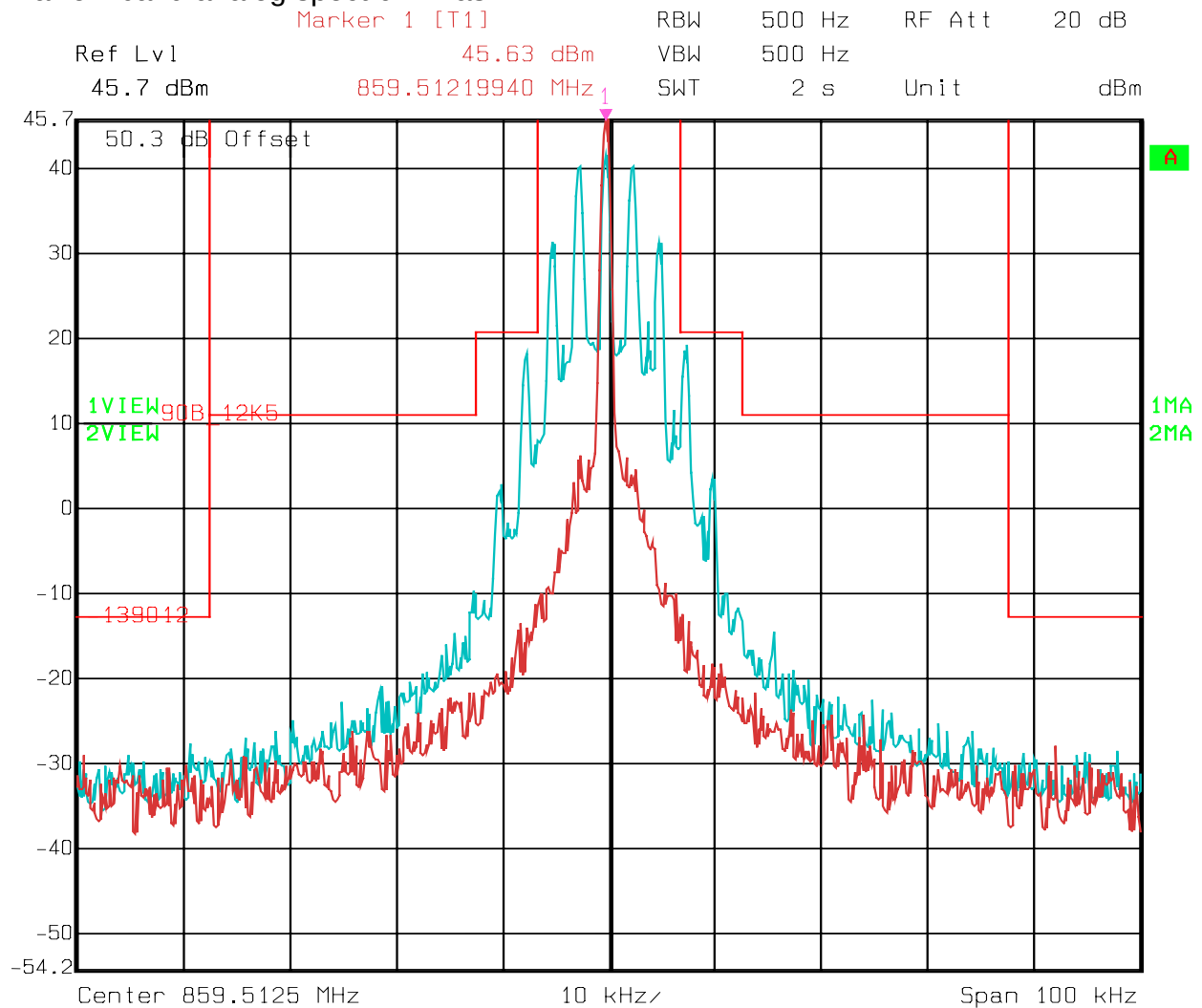


Date: 10.JAN.2007 11:57:40

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Narrow band analog spectrum mask

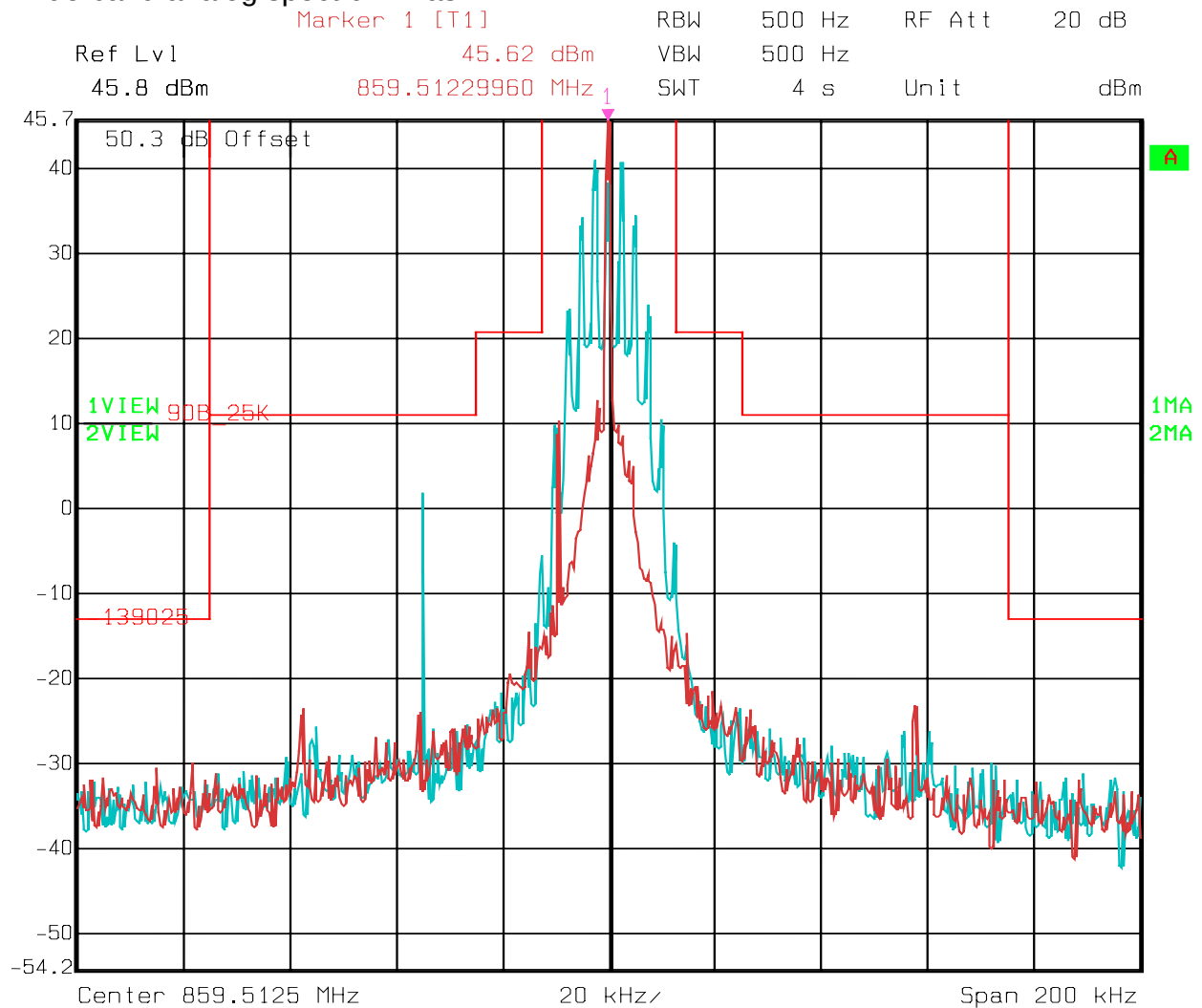


Date: 10.JAN.2007 11:53:58

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Wide band analog spectrum mask



Date: 10.JAN.2007 11:38:42

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Section 6. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.1051
TESTED BY: Kevin Rose	DATE: 10 Jan. 2007

Measurement Results: Complies.

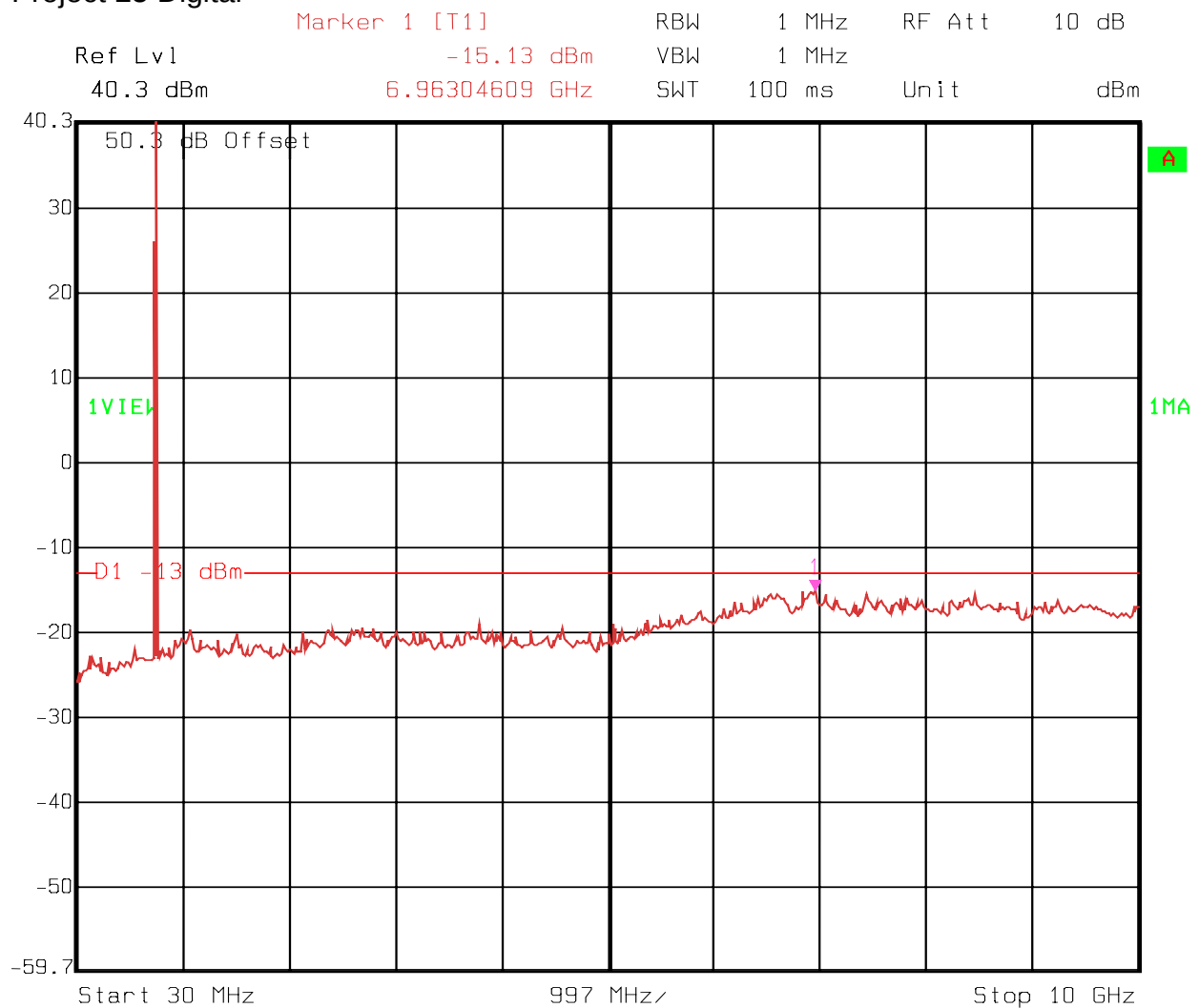
Measurement Data: See attached data

Equipment Used: 1036-1081-1535

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Project 25 Digital

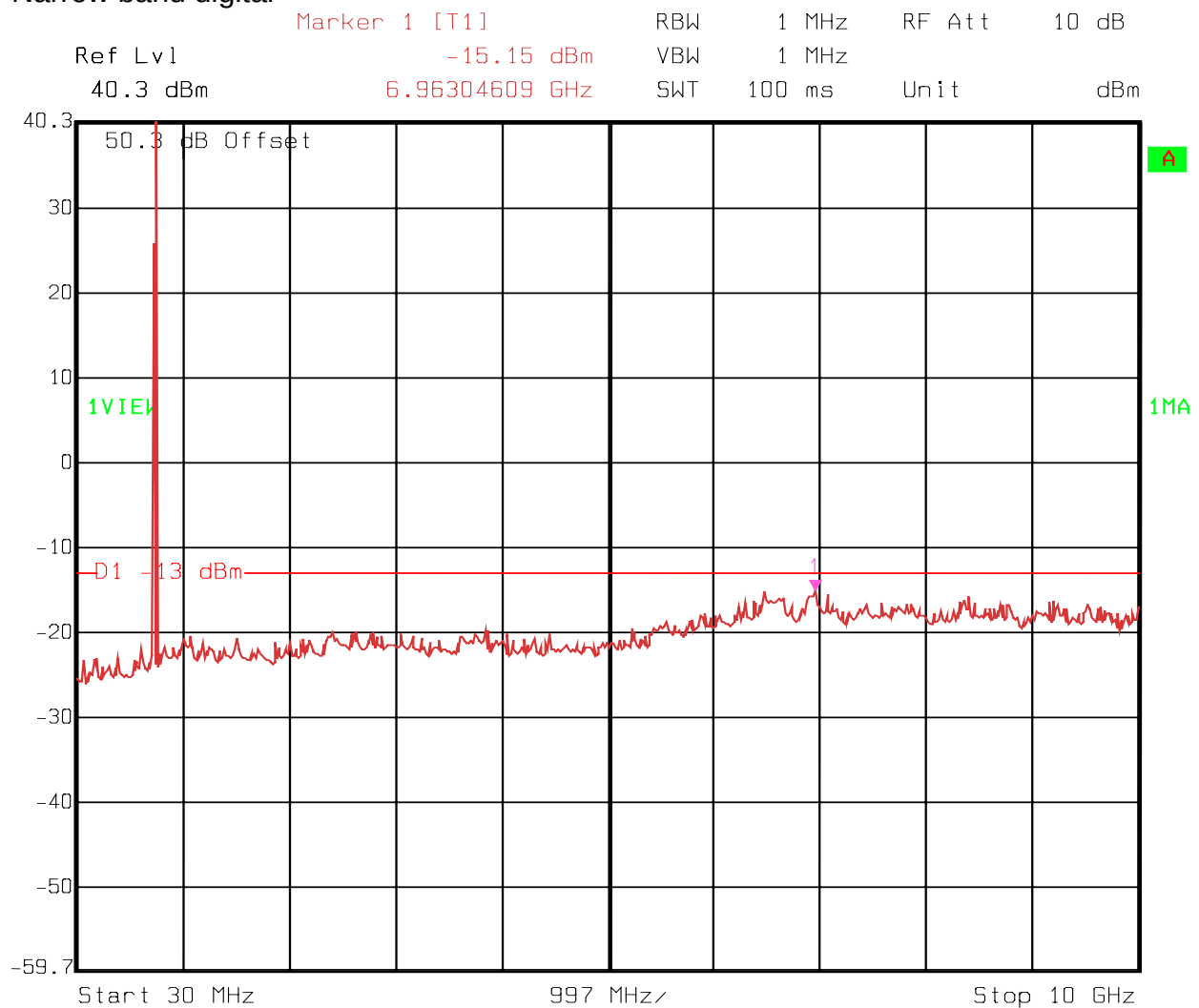


Date: 10.JAN.2007 12:11:13

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Narrow band digital

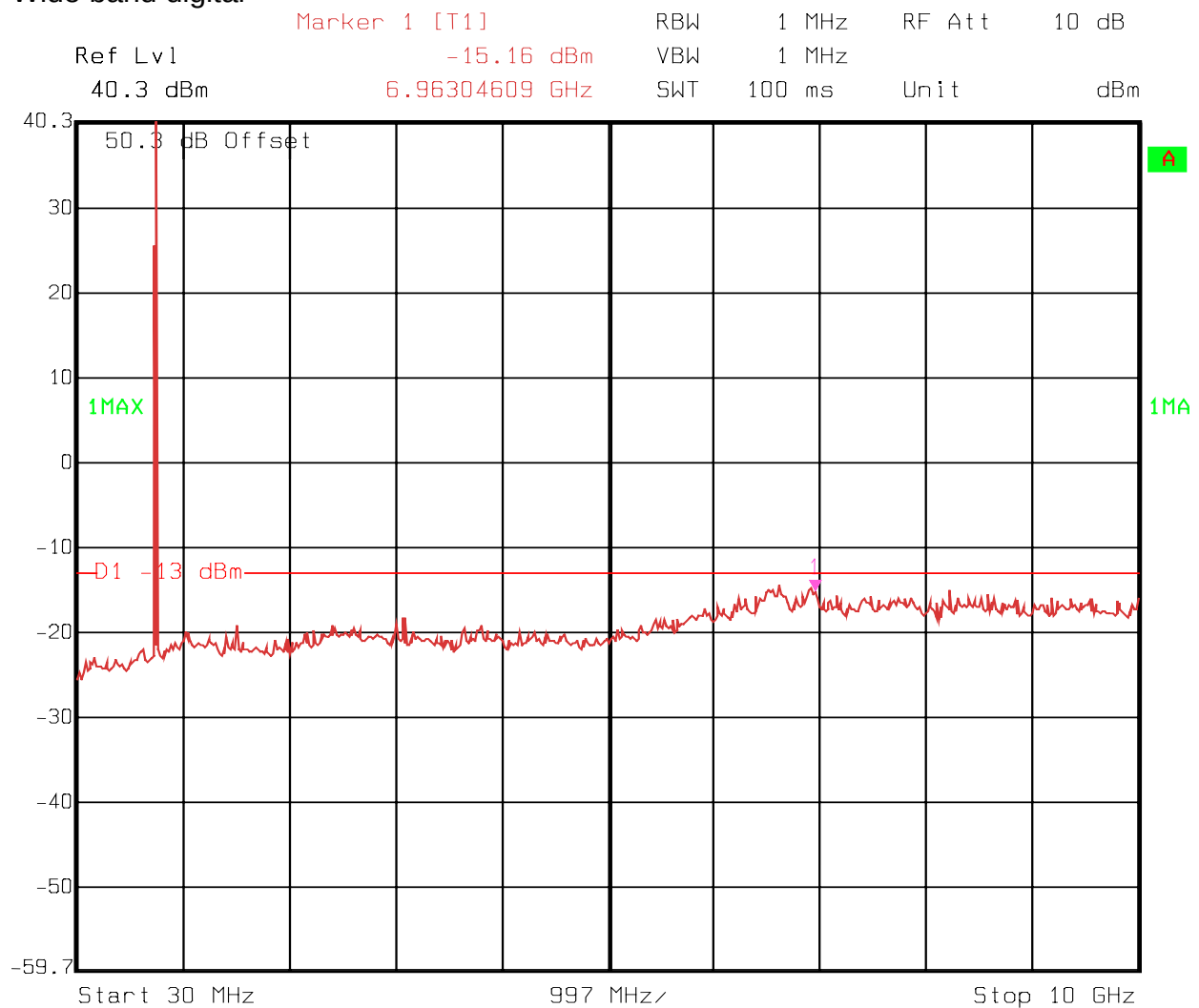


Date: 10.JAN.2007 12:12:11

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Wide band digital



Date: 10.JAN.2007 12:13:28

The radio was tested on three channels. The noise floor data presented is representative of all channels and modulations tested.

EQUIPMENT: 242-5377-001AAYB6**PROJECT NO.:** 6L0801RUS1rev5

Section 7. Field Strength of Spurious Emissions

NAME OF TEST: Field Strength of Spurious Emissions PARA. NO.: 2.1053

TESTED BY: Kevin Rose

DATE: 10 Jan. 2007

Measurement Results: Complies.**Measurement Data:** See attached data

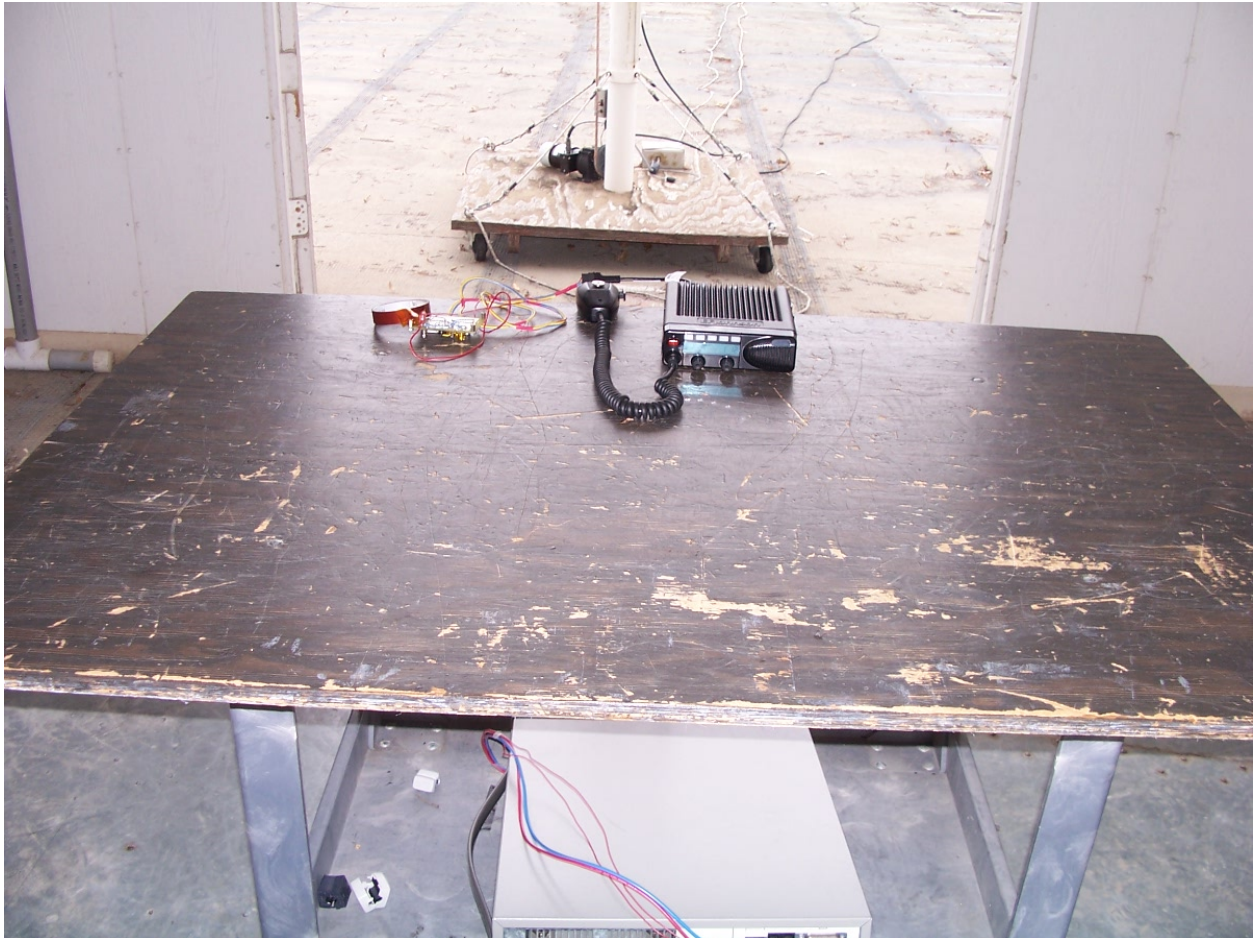
Note: The frequency spectrum was searched from 30 MHz to 10 GHz. No emissions within 20 dB of the specification limit were detected.

The spectrum was investigated in the 1559 to 1610 MHz band per 90.543. There were no emissions detected above the noise floor which was at least 20 dB below the specification limit of -70 dBW EIRP.

Receiver Settings: RBW=VBW=100 kHz below 1000 MHz
 RBW=VBW=1 MHz above 1000 MHz
 Peak detector

Measurement Distance: 3 Meters**Equipment Used:** 1464-1484-1485-993-1311-759-791

Photographs of Test Setup



EQUIPMENT: 242-5377-001AAYB6

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Section 8. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 90.213 / 90.539
TESTED BY: David Light	DATE: 29 August 2007

Measurement Results: Complies.

Measurement Data: See attached data

Limit: 0.4 ppm

Equipment Used: 1036-1081-283-1535

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Measurement Uncertainty: 1×10^{-17} ppm							
Standard Test Frequency 769.012291 MHz							
Temp (°C)	Measured Frequency (MHz)	Rho	Test Voltage	Frequency Error (Hz)	Limit (+/-Hz)	Error (ppm)	Comment
20	769.012291			0	307.6	0.00	
20	769.012291			0	307.6	0.00	
20	769.012291			0	307.6	0.00	
50	769.012147			-144	307.6	-0.19	
40	769.012272			-19	307.6	-0.02	
30	769.012280			-11	307.6	-0.01	
10	769.012185			-106	307.6	-0.14	
0	769.012150			-141	307.6	-0.18	
-10	769.012211			-80	307.6	-0.10	
-20	769.012237			-54	307.6	-0.07	
-30	769.012110			-181	307.6	-0.24	
Notes:							

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Section 9. Adjacent Channel Power

NAME OF TEST: Adjacent Channel Power	PARA. NO.: 90.543
TESTED BY: David Light	DATE: 29 August. 2007

Measurement Results: Complies.

Measurement Data: See attached data

Limit:

Equipment Used: 1036-1081-283-1535

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

Test Data – Adjacent Channel Power (799.0125 MHz)

25 kHz Analog Channel

Offset from center Frequency (kHz)	Measurement Bandwidth (kHz)	Maximum ACP (dBc)	Measured ACP (dBc)
15.625	6.25	-40	-52.0
21.875	6.25	-60	-67.3
37.50	25.00	-60	-61.0
62.50	25.00	-65	-66.5
87.50	25.00	-65	-66.8
150.0	100	-65	-65.9
250.0	100	-65	-68.2
350.0	100	-65	-71.0
>400 to 12 MHz	30 (s)	-75	-75.9
12 MHz to paired RX band	30 (s)	-75	-78.3
In the paired RX band	30 (s)	-100	-105.0

12.5 kHz analog channel

Offset from center Frequency (kHz)	Measurement Bandwidth (kHz)	Maximum ACP (dBc)	Measured ACP (dBc)
9.375	6.25	-40	-57.0
15.625	6.25	-60	-63.4
21.875	6.25	-60	-66.0
37.5	25.00	-60	-68.8
62.5	25.00	-65	-67.7
87.5	25.00	-65	-70.2
150.0	100	-65	-67.0
250.0	100	-65	-68.0
350.0	100	-65	-70.7
>400 to 12 MHz	30 (s)	-75	-75.9
12 MHz to paired RX band	30 (s)	-75	-77.0
In the paired RX band	30 (s)	-100	-105.4

EQUIPMENT: 242-5377-001AAYB6PROJECT NO.: 6L0801RUS1rev5

Test Data – Adjacent Channel Power

Project 25 digital channel

Offset from center Frequency (kHz)	Measurement Bandwidth (kHz)	Maximum ACP (dBc)	Measured ACP (dBc)
9.375	6.25	-40	-42.6
15.625	6.25	-60	-64.2
21.875	6.25	-60	-67.0
37.5	25.00	-60	-66.0
62.5	25.00	-65	-65.2
87.5	25.00	-65	-67.8
150.0	100	-65	-68.6
250.0	100	-65	-67.8
350.0	100	-65	-70.0
>400 to 12 MHz	30 (s)	-75	-81.0
12 MHz to paired RX band	30 (s)	-75	-81.0
In the paired RX band	30 (s)	-100	-105.1

EQUIPMENT: 242-5377-001AAYB6

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Section 10. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	05/26/06	05/26/08
1479	Bi Conical Antenna 20-330 Mhz	A. H. Systems SAS-200/540	496	07/27/06	07/27/07
283	Environmental Chamber with controller # 1189006	ENVIROTRONICS SH27 & 2030-22844	129010083	06/19/06	06/19/07
1081	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	06/15/06	06/15/07
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1485	Cable	Storm PR90-010-216	N/A	10/02/06	10/02/07
1484	Cable	Storm PR90-010-072	N/A	10/02/06	10/02/07
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	04/20/06	04/20/07
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	02/13/06	02/13/07
1306	Antenna biconical	Nemko USA, Inc. BCON 30300	212	02/10/06	02/10/07
1535	Attenuator, coaxial	Bird Electronics 8322	469	CBU	N/A
993	Horn antenna	A.H. Systems SAS-200/571	XXX	08/01/05	08/02/07
791	PREAMP, 25dB	Nemko USA, Inc. LNA25	398	04/20/06	04/20/07

ANNEX A - TEST METHODOLOGIES

EQUIPMENT: 242-5377-001AAYB6PROJECT NO.: 6L0801RUS1rev5

NAME OF TEST: RF Power Output	PARA. NO.: 2.1046
--------------------------------------	--------------------------

Minimum Standard: Para. No. 90.205(a). The maximum allowable station ERP is dependent upon the stations HAAT and required service area and will be authorized in accordance with Table 1 of 90.205(d).

Method Of Measurement:

Detachable Antenna:

The peak power at antenna terminals is measured using an in-line peak power meter. Power output is measured with the maximum rated input level.

Integral Antenna:

The antenna substitution method is used to determine the equivalent radiated power at spurious frequencies. The spurious emissions are measured at a distance of 3 meters. The EUT is then replaced with a reference substitution antenna with a known gain referenced to an isotropic radiator. This antenna is fed with a signal at the spurious frequency. The level of the signal is adjusted to repeat the previously measured level. The resulting eirp is the signal level fed to the reference antenna corrected for gain referenced to an isotropic radiator.

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NAME OF TEST: Spurious Emissions at Antenna
Terminals

PARA. NO.: 2.1051

Minimum Standard:

90.210, Table 1

Table 1

Frequency Band (MHz)	Mask for equipment with Low Pass Filter	Mask for equipment without Low Pass Filter
Below 25	A or B	A or C
25 - 50	B	C
72 - 76	B	C
150 - 174	B, D or E	C, D or E
150 Paging only	B	C
220 - 222	F	F
421 - 512	B, D or E	C, D or E
450 paging only	B	H
806 - 821/ 851 - 866	B	G
821 - 824/ 866 - 869	B	H
896 - 901/ 935 - 940	I	J
902 - 928	K	K
929 - 930	B	G
Above 940	B	C
All other bands	B	C

MASK	Spurious Limit	FS Limit Below 1 GHz	FS Limit Above 1 GHz
A,B,C,G,H,I	-13dBm	84.4 dB μ V/m@3m	82.2 dB μ V/m@3m
D,J	-20dBm	77.4 dB μ V/m@3m	75.2 dB μ V/m@3m
E,F,K	-25dBm	72.4 dB μ V/m@3m	70.2 dB μ V/m@3m

Test Method:

RBW: 1% of emission bandwidth in the 0 - 1 GHz range.

1 MHz at frequencies above 1 GHz.

VBW: $\Rightarrow$ RBW

The spectrum is searched up to 10 times the fundamental frequency.

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.1049
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Minimum Standard: Not defined. Input/Output

Method Of Measurement:

Analog

Spectrum analyzer settings:

RBW=VBW=300 Hz

Span: 100 kHz

Sweep: Auto

iDEN

RBW=VBW= 300 Hz

Span: 100 kHz

Sweep: Auto

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

NAME OF TEST: Field Strength of Spurious**PARA. NO.: 2.1051****Minimum Standard:** Para. No. 90.210, see table 1 for applicable mask.**Method Of Measurement:** TIA/EIA-603-1992

The antenna substitution method is used to determine the equivalent radiated power at spurious frequencies. The spurious emissions are measured at a distance of 3 meters. The EUT is then replaced with a reference substitution antenna with a known gain referenced to an isotropic radiator. This antenna is fed with a signal at the spurious frequency. The level of the signal is adjusted to repeat the previously measured level. The resulting eirp is the signal level fed to the reference antenna corrected for gain referenced to an isotropic radiator.

MASK	Spurious Limit	FS Limit Below 1 GHz	FS Limit Above 1 GHz
A,B,C,G,H,I	-13dBm	84.4 dB μ V/m@3m	82.2 dB μ V/m@3m
D,J	-20dBm	77.4 dB μ V/m@3m	75.2 dB μ V/m@3m
E,F,K	-25dBm	72.4 dB μ V/m@3m	70.2 dB μ V/m@3m

EQUIPMENT: 242-5377-001AAYB6

PROJECT NO.: 6L0801RUS1rev5

NAME OF TEST: Frequency Stability**PARA. NO.: 2.1055**

Minimum Standard: Para. No. 90.213. The transmitter carrier frequency shall remain

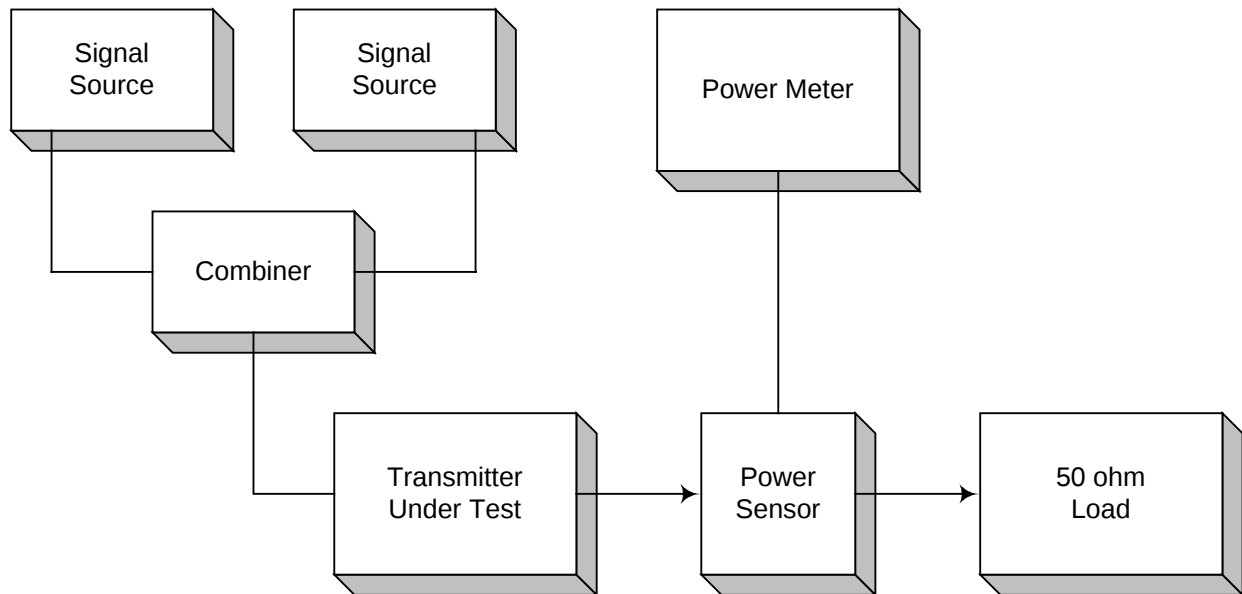
within the assigned frequency below in ppm.

Table 2

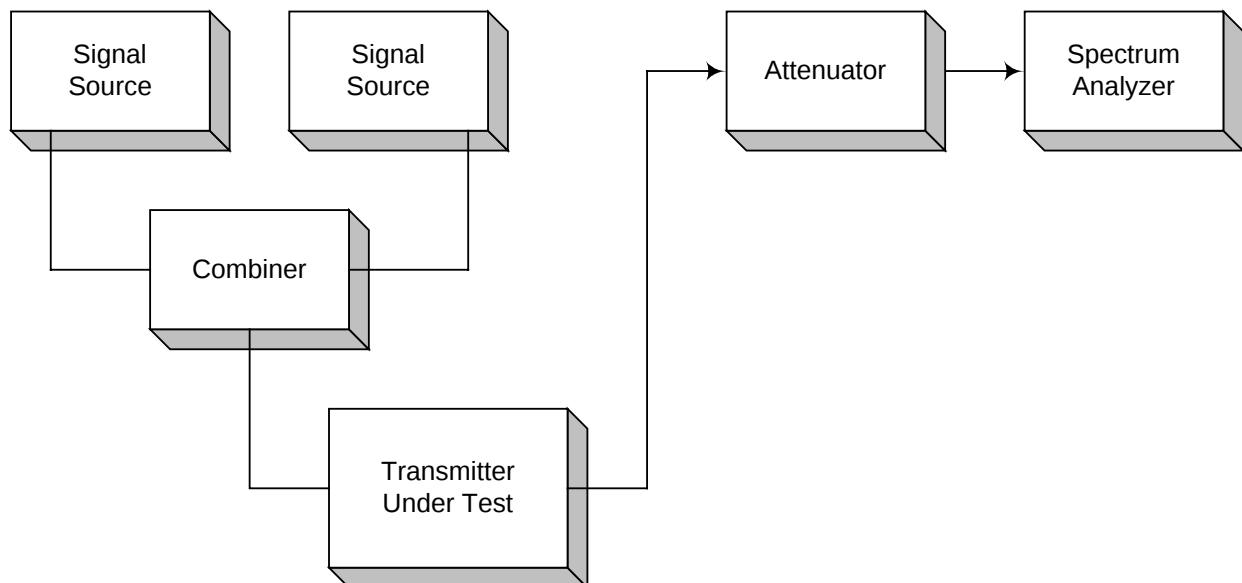
Frequency Band (MHz)	Fixed And Base Stations	Mobile Stations	
		> 2 Watts o/p pwr	< 2 Watts o/p pwr
Below 25	100	100	200
25 - 50	20	20	50
72 - 76	5	-	50
150 - 174	5	5	5
220 - 222	0.1	1.5	1.5
421 - 512	2.5	5	5
806 - 821	1.5	2.5	2.5
821 - 824	1.0	1.5	15
851 - 866	1.5	2.5	2.5
866 - 869	1.0	1.5	1.5
869 - 901	0.1	1.5	1.5
902 - 928	2.5	2.5	2.5
929 - 930	1.5	-	-
935 - 940	0.1	1.5	1.5
1427 - 1435	300	300	300
Above 2450	-	-	-

ANNEX B - TEST DIAGRAMS

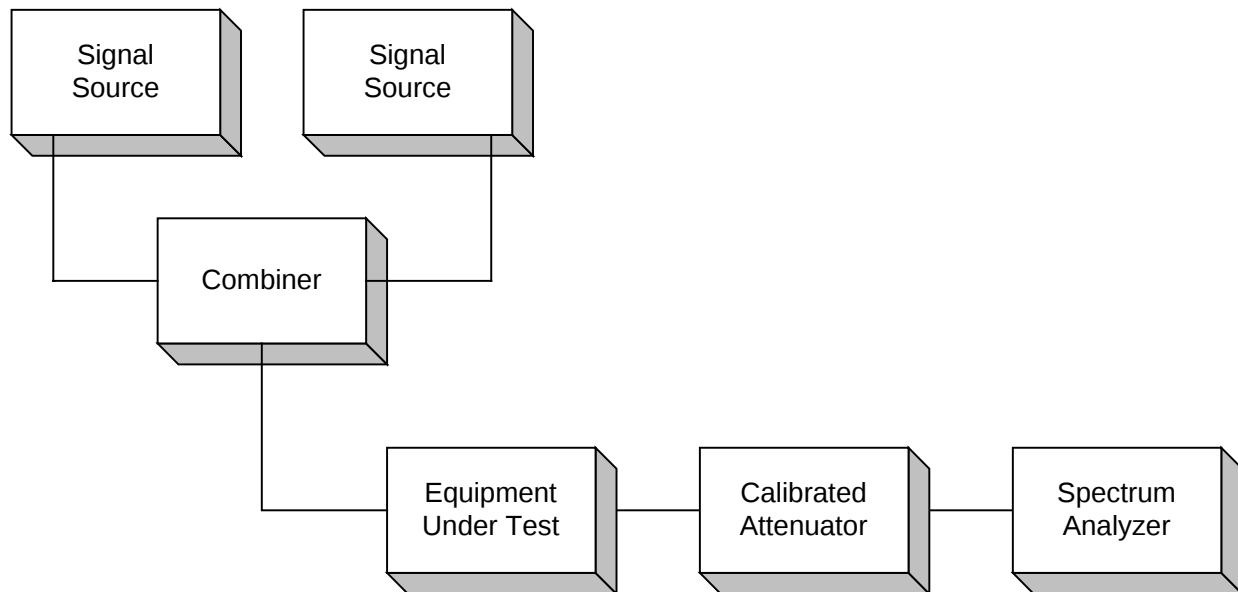
Para. No. 2.1046 - R.F. Power Output



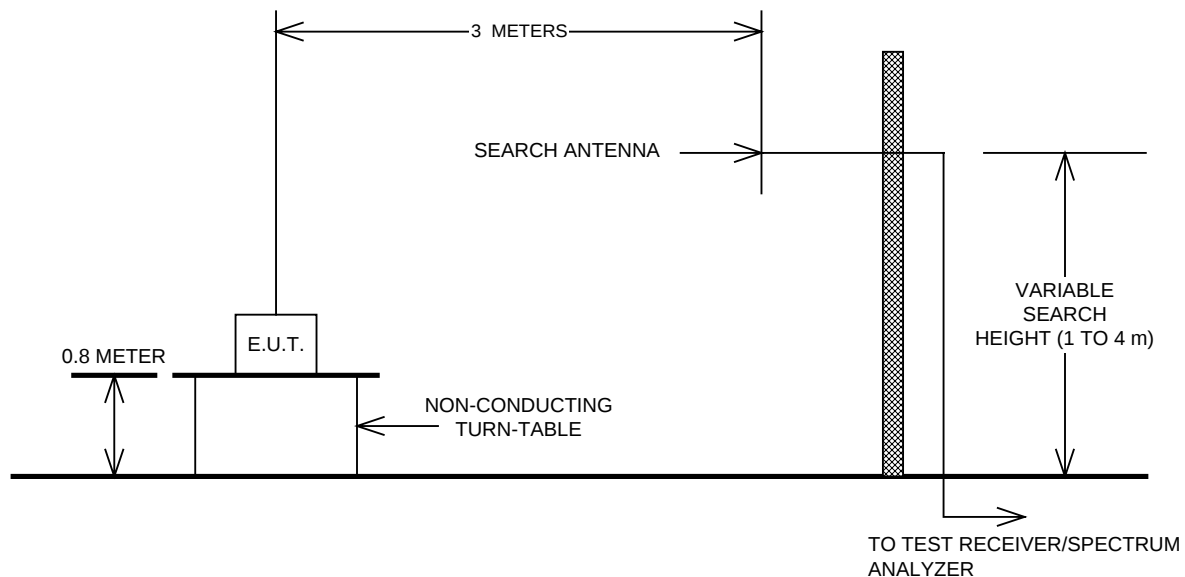
Para. No. 2.1049 - Occupied Bandwidth



Para. No. 2.1051 - Spurious Emissions at Antenna Terminals



Para. No. 2.1053 - Field Strength of Spurious Radiation



Para. No. 2.1055 Frequency Stability

