

Nemko Test Report: 5L0185RUS1

Applicant: Electronic Systems Technology
415 N. Quay St. Suit 4
Kennewick, WA 99336

Equipment Under Test: 192MHP
(E.U.T.) Narrow Band Packet Burst Wireless Modem

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

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

Authorized By:

A handwritten signature in black ink, appearing to read 'David Light', written over a horizontal line.

David Light, Senior Wireless Engineer

Date: 24 August 2005

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EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

Section 1. Summary of Test Results

Manufacturer: Electronic Systems Technology

Model No.: 192MHP

Serial No.: MHP-12002

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.



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. NONE
See " Summary of Test Data".

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EQUIPMENT: 192MHP

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Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	MEAS.	RESULT
RF Power Output	90.205		10W/30W	Complies
Audio Frequency Response	TIA EIA-603.3.2.6	N/A	N/A	N/A
Audio Low-Pass Filter Response	TIA EIA-603.3.2.6	N/A	N/A	N/A
Modulation Limiting	TIA EIA-603.3.2.6	N/A	2.5kHz/ 3.5 kHz	Complies
Occupied Bandwidth	90.210	Mask C or D	Plots	Complies
Spurious Emissions at Antenna Terminals	90.210	Mask C or D	Plots	Complies
Field Strength of Spurious Emissions	90.210	Mask C or D	Table	Complies
Frequency Stability	90.213	5 ppm	1.1 ppm	Complies
Transient Frequency Behavior	90.214	Plot	Plots	Complies

Footnotes:

The EUT does not provide for voice modulation.

EQUIPMENT: 192MHP

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Section 2. General Equipment Specification

Transmitter

Supply Voltage Input:	13 Vdc nominal				
Frequency Range:	154-170 MHz				
Tunable Bands:	154-170 MHz				
Necessary Bandwidth:	16.6 kHz or 9.8 kHz				
Type(s) of Modulation:	F3E (Voice)	F1D	F2D	D7W (QAM)	Other
	☐	☐	☒	☐	☐
Data Rate(s)	9,600 bps or 19,200 bps				
Internal/External Data Source:	External				
Emission Designator:	9K8F2D (9,600 bps) or 16K6F2D (19,200 bps)				
Output Impedance:	50 ohm				
RF Power Output (rated):	10, 20, 30 W				
Channel Spacing(s):	12.5 or 25 kHz				
Operator Selection of Operating Frequency:	U.S.A.	Selectable by user.			
	Canada	Set at factory			
Power Output Adjustment Capability:	Pre-programmed.				

EQUIPMENT: 192MHP**PROJECT NO.:** 5L0185RUS1

Description of EUT

The EUT is a wireless data transceiver that operates in the 150 – 174 MHz band. Modulation level is 4 level FSK. The radio can generate a data rate of 9,600 bps in a 12.5 kHz channel or 19,200 bps in a 25 kHz channel.

Modulation Description and Necessary Bandwidth

9K8F2D

Necessary Bandwidth:

$$\begin{aligned} B_n &= 2M + 2d \\ M &= 2,400 \text{ Hz} \\ D &= 2,500 \text{ Hz} \\ B_n &= 9.8 \text{ kHz} \end{aligned}$$

16K6F2D

Necessary Bandwidth:

$$\begin{aligned} B_n &= M + 2d \\ M &= 4,800 \text{ Hz} \\ D &= 3,500 \text{ Hz} \\ B_n &= 16.6 \text{ kHz} \end{aligned}$$

EQUIPMENT: 192MHP

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Section 3. RF Power Output

NAME OF TEST: RF Power Output

PARA. NO.: 2.985

TESTED BY: Kevin Rose

DATE: 8 Aug 05

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

Nemko Dallas, Inc.

Dallas Headquarters:802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667**RF Power Output (Conducted)**Job No.: 5L0185R Date: 8/10/2005
Specification: FCC part 90 Temperature(°C): 23
Tested By: KEVIN ROSE Humidity(%) 46
E.U.T.: 192CHP
Configuration: Test software control
Detector: Peak**Test Equipment Used:**Power Meter: _____ Directional Coupler: _____
Power Sensor: _____ Cable #1: 798
Load: _____ Cable #2: _____
Spectrum Analyzer: 1036 Cable #3: _____
Attenuator #1: 1064 Cable #4: _____
Attenuator #2: 809 Cable #5: _____
Attenuator #3: _____ Cable #6: _____
Attenuator #4: _____ Power Splitter: _____

Measurement Uncertainty: +/- 1.6 dB

Frequency MHz	Power Watts	Modulation Type	Output Power (dBm)	Output Power (mW)	Rated Power (dBm)
160	10	9K8F1D	40.1	10232.93	40.00
160	10	16K6F1D	40.1	10232.93	40.00
160	30	9K8F1D	44.8	30199.52	44.78
160	30	16K6F1D	44.8	30199.52	44.78

Section 4. Modulation Characteristics

The equipment does not provide for voice modulation.

Maximum Frequency Deviation with Data:

Channel Width (kHz)	Data Rate (bps)	Deviation (kHz)
12.5	9, 600	2.5
25	19, 200	3.5

EQUIPMENT: 192MHP

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Section 5. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.989
TESTED BY: Kevin Rose	DATE: 4 Aug 05

Measurement Results: Complies.

Measurement Data: See attached data

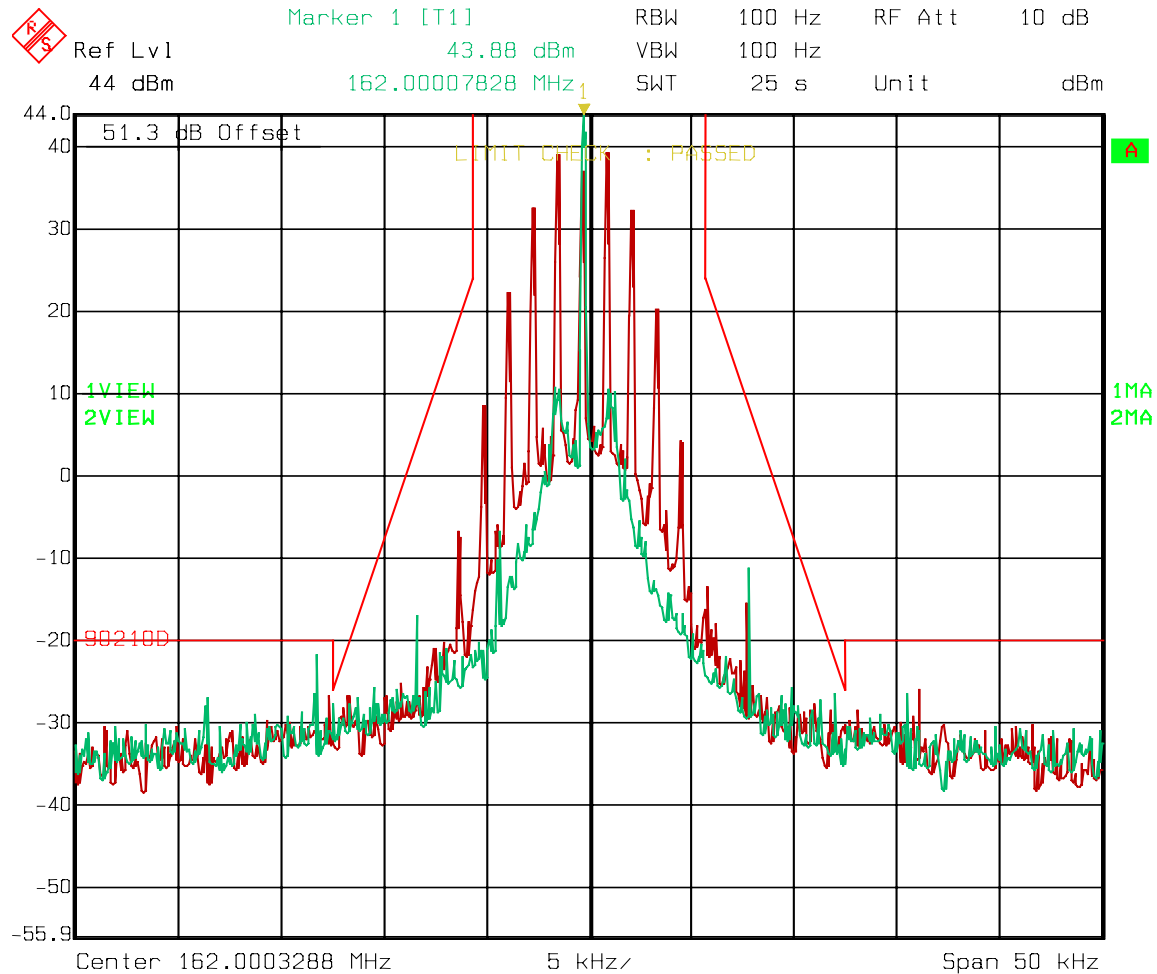
EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

Spectral mask D

Equipment 1036, 1561, 1562, 970, 809, 1625

30 watt mask D

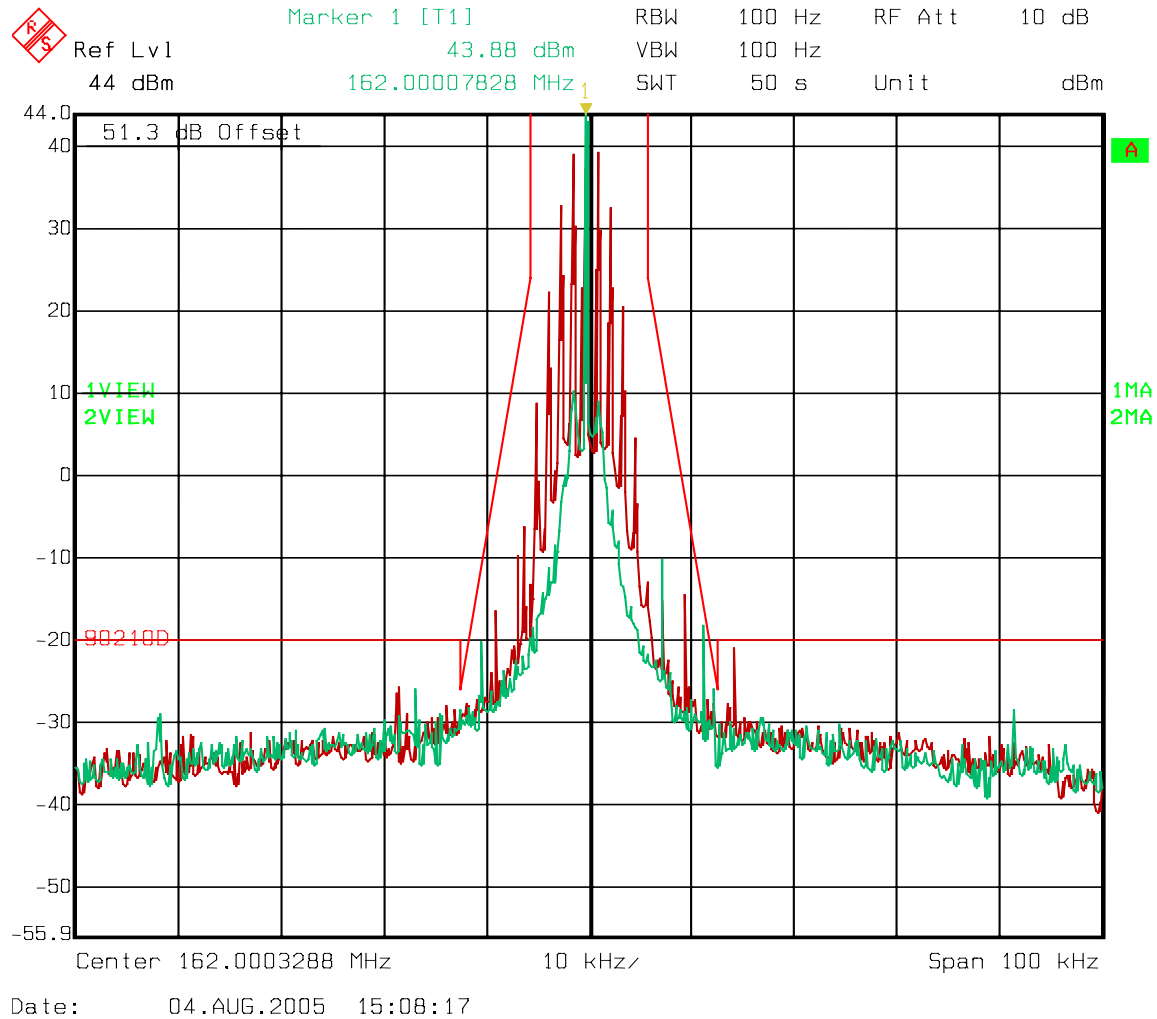


Date: 04.AUG.2005 14:54:47

EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

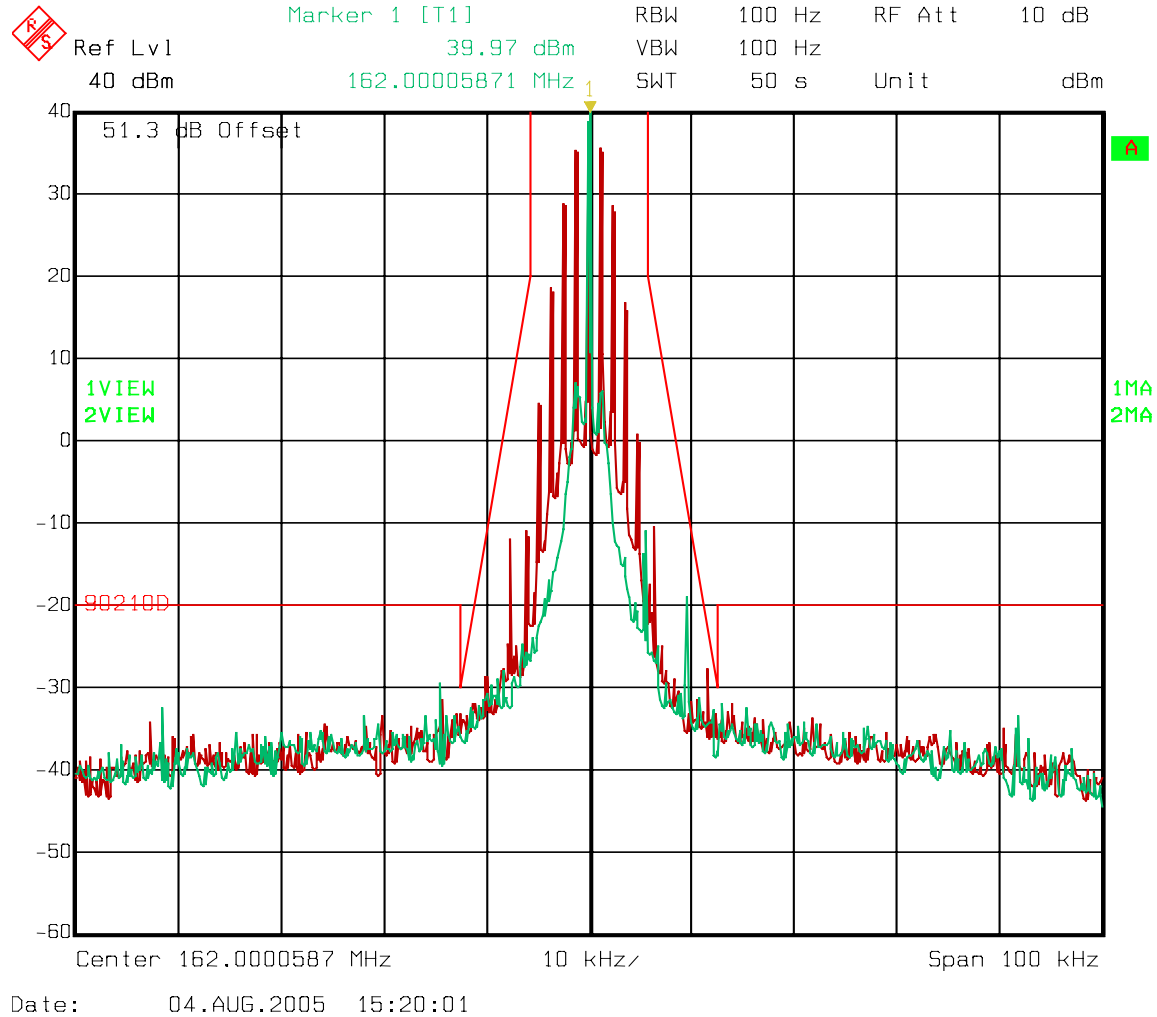
30watt mask D



EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

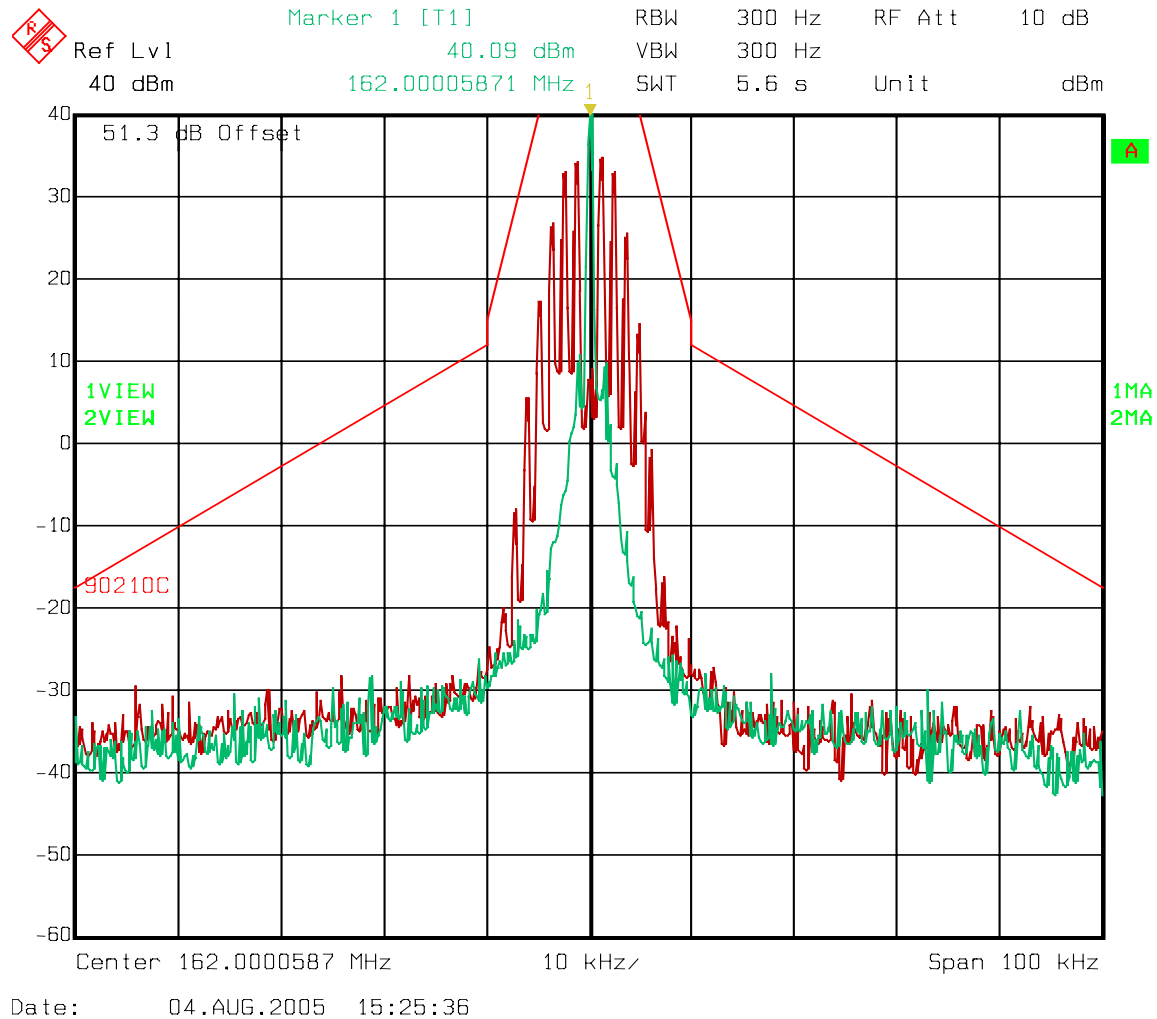
10 watt mask D



EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

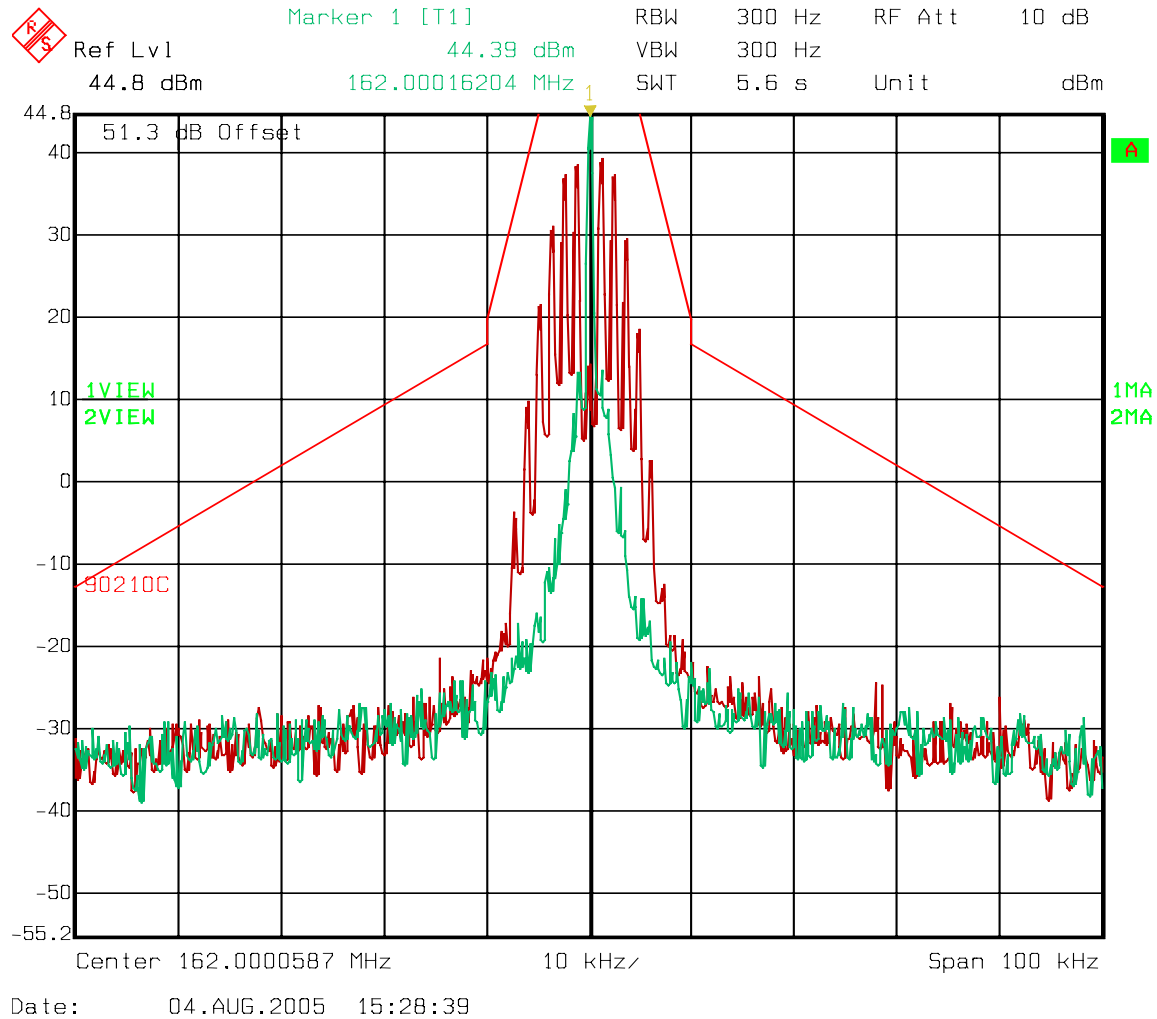
10 watt mask C



EQUIPMENT: 192MHP

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30watts mask c



EQUIPMENT: **192MHP**

PROJECT NO.: **5L0185RUS1**

Section 6. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.991
TESTED BY: Kevin Rose	DATE: 8 Aug 05

Measurement Results: Complies.

Measurement Data: See attached data

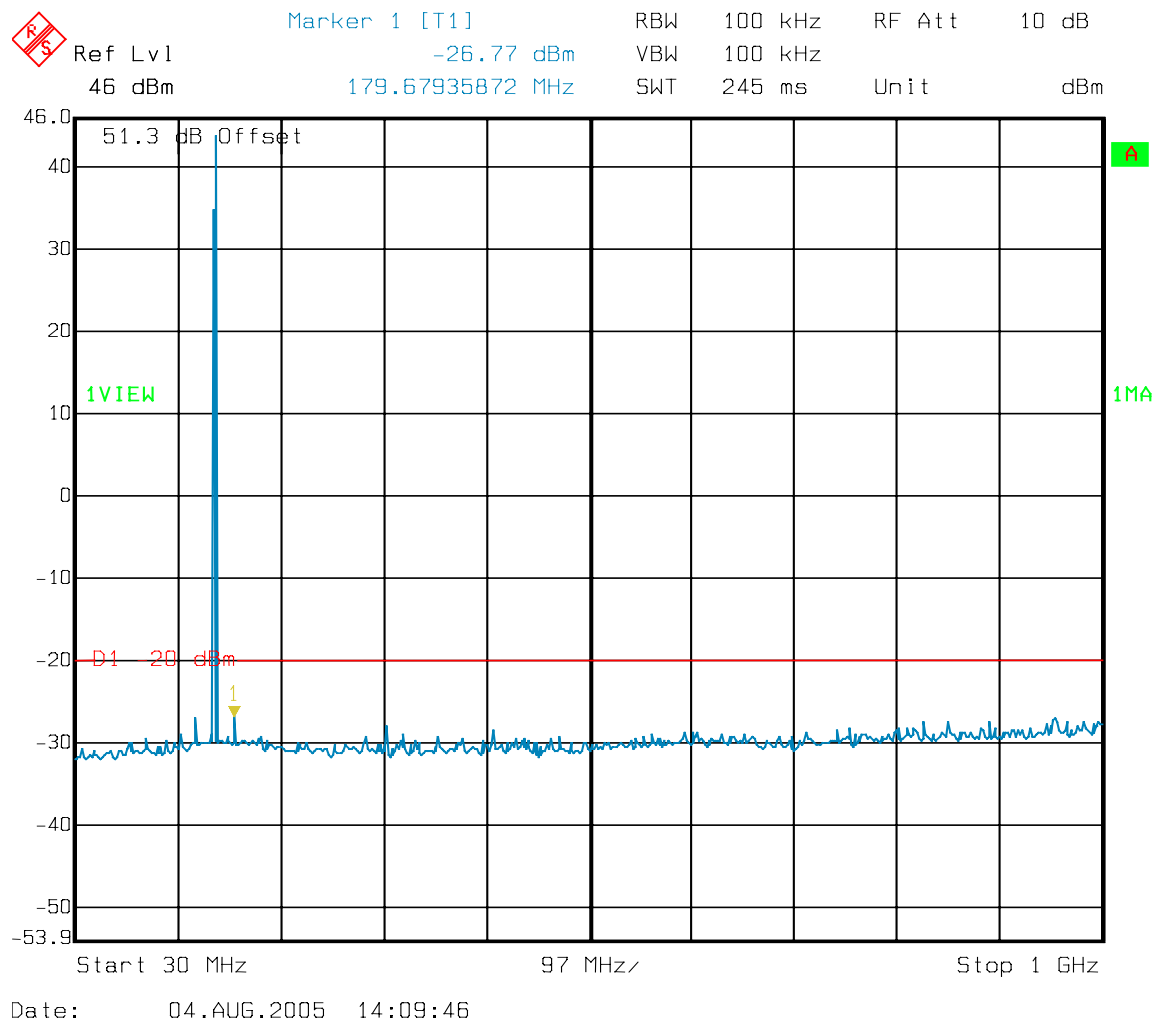
EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

Spurious Emissions at Antenna Terminals

Equipment 1036, 1561, 1562, 970, 809, 1625

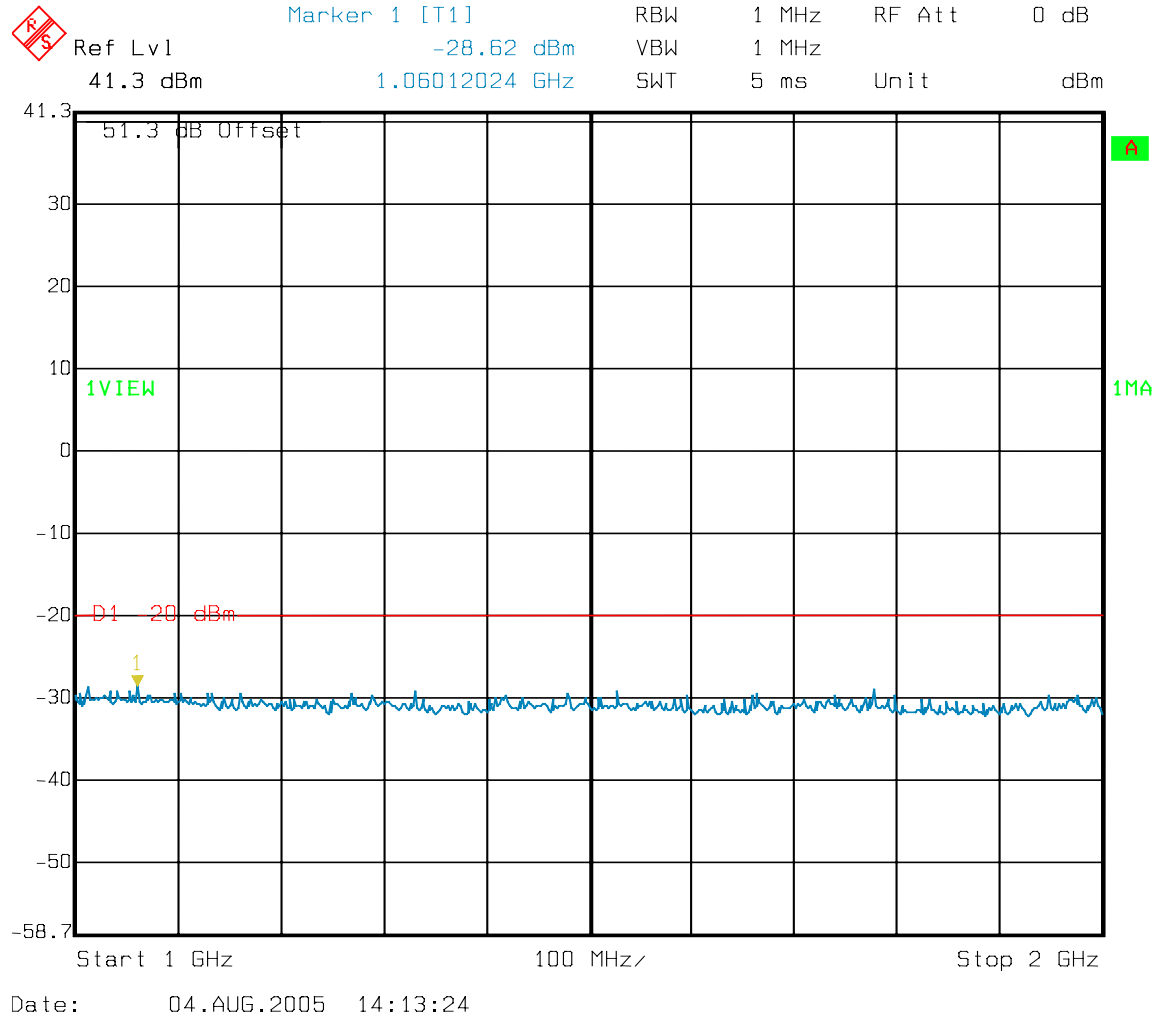
30 watts mid channel 12.5kHz deviation



EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

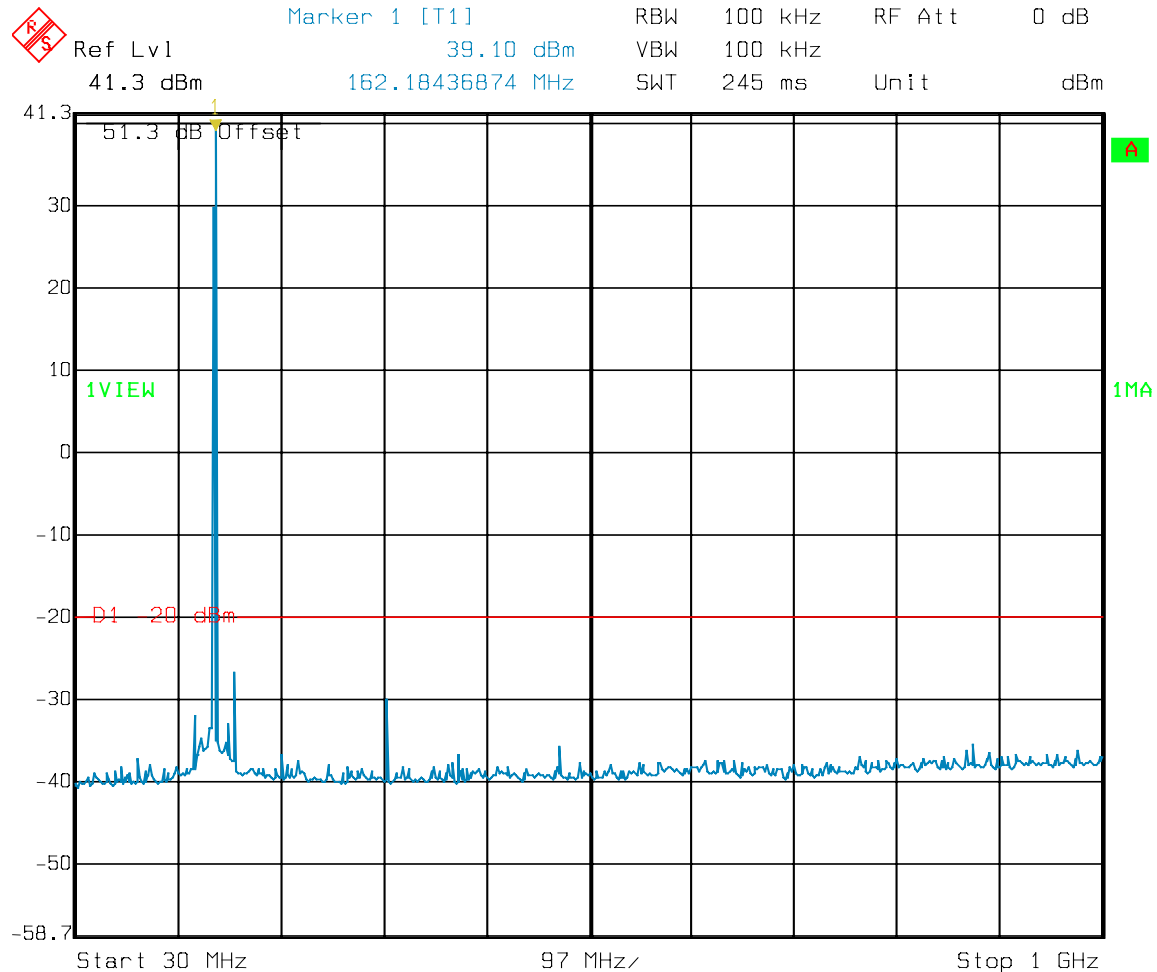
30 watts mid channel 12.5kHz deviation



EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

10 watts mid channel 12.5khz deviation

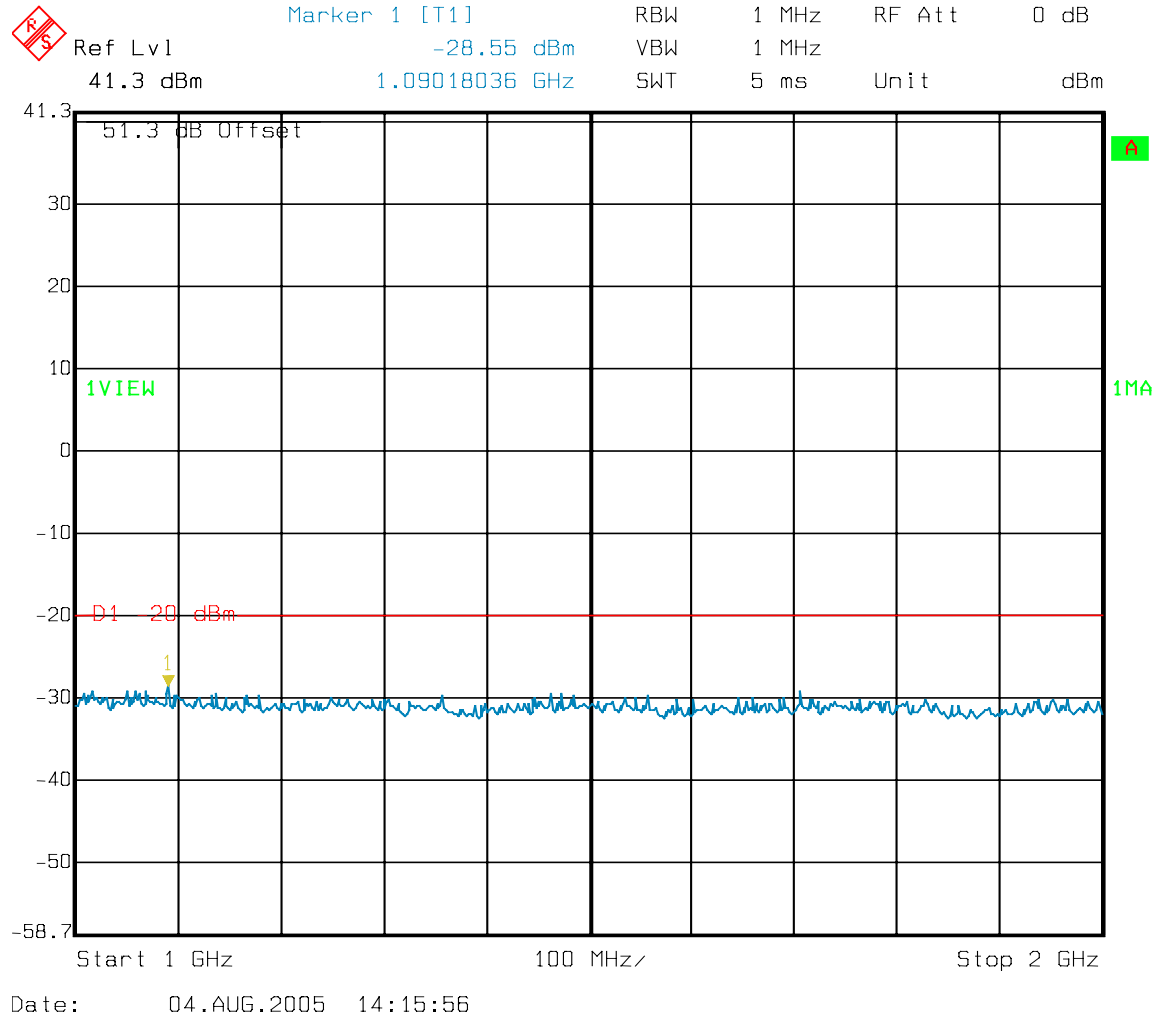


Date: 04.AUG.2005 14:18:36

EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

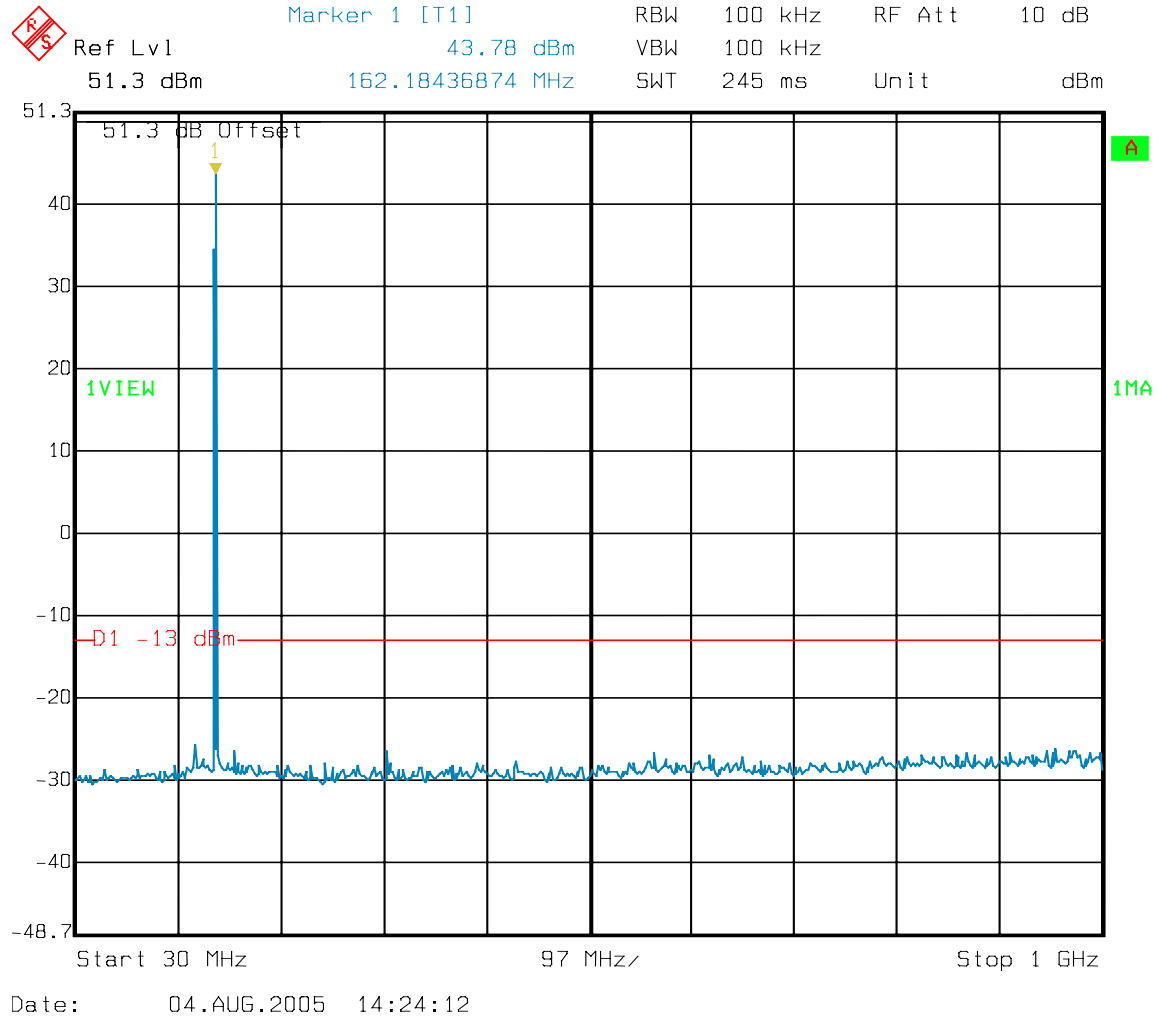
10 watts mid channel 12.5kHz deviation



EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

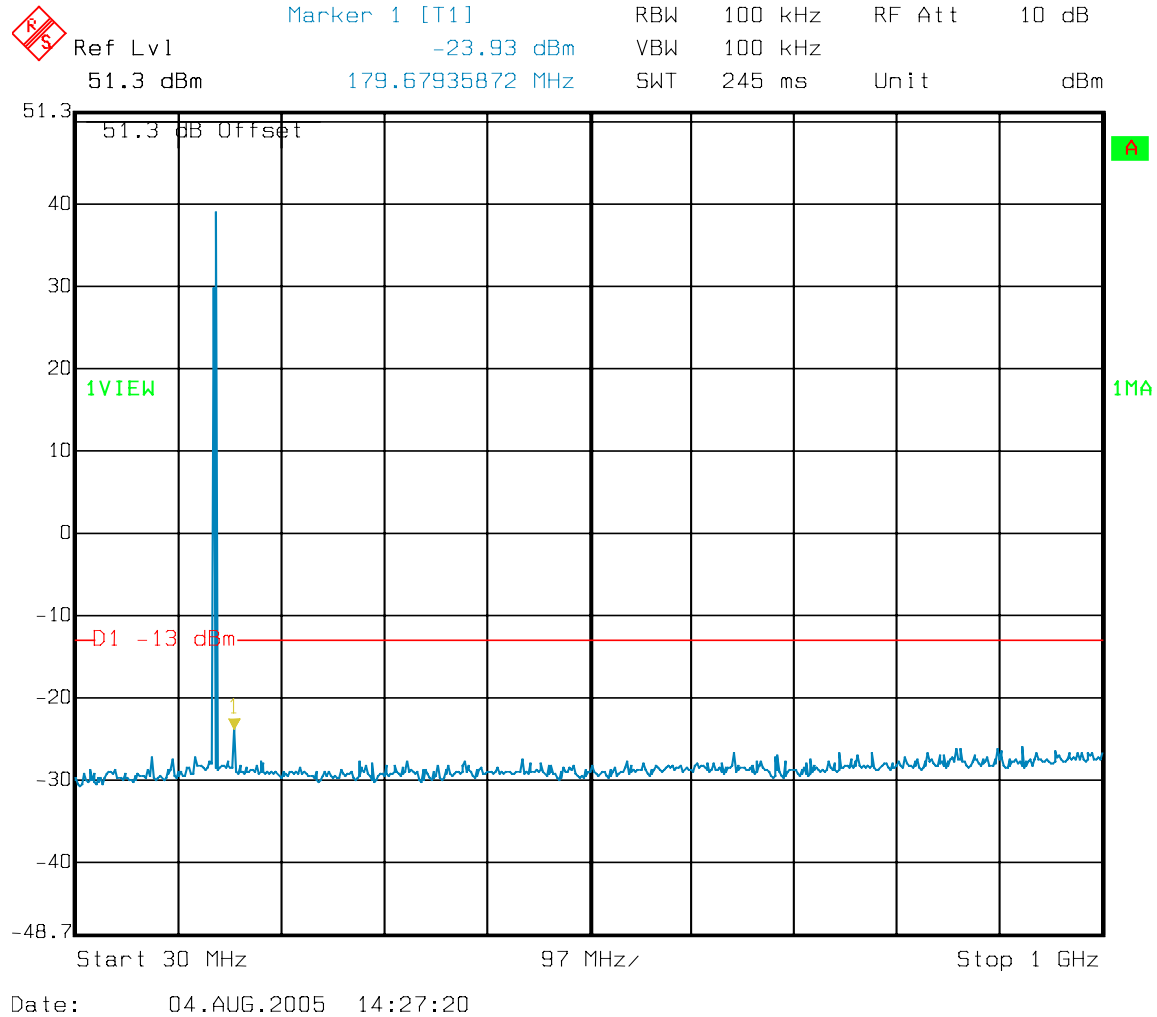
30 watts 25 deviation mid channel



EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

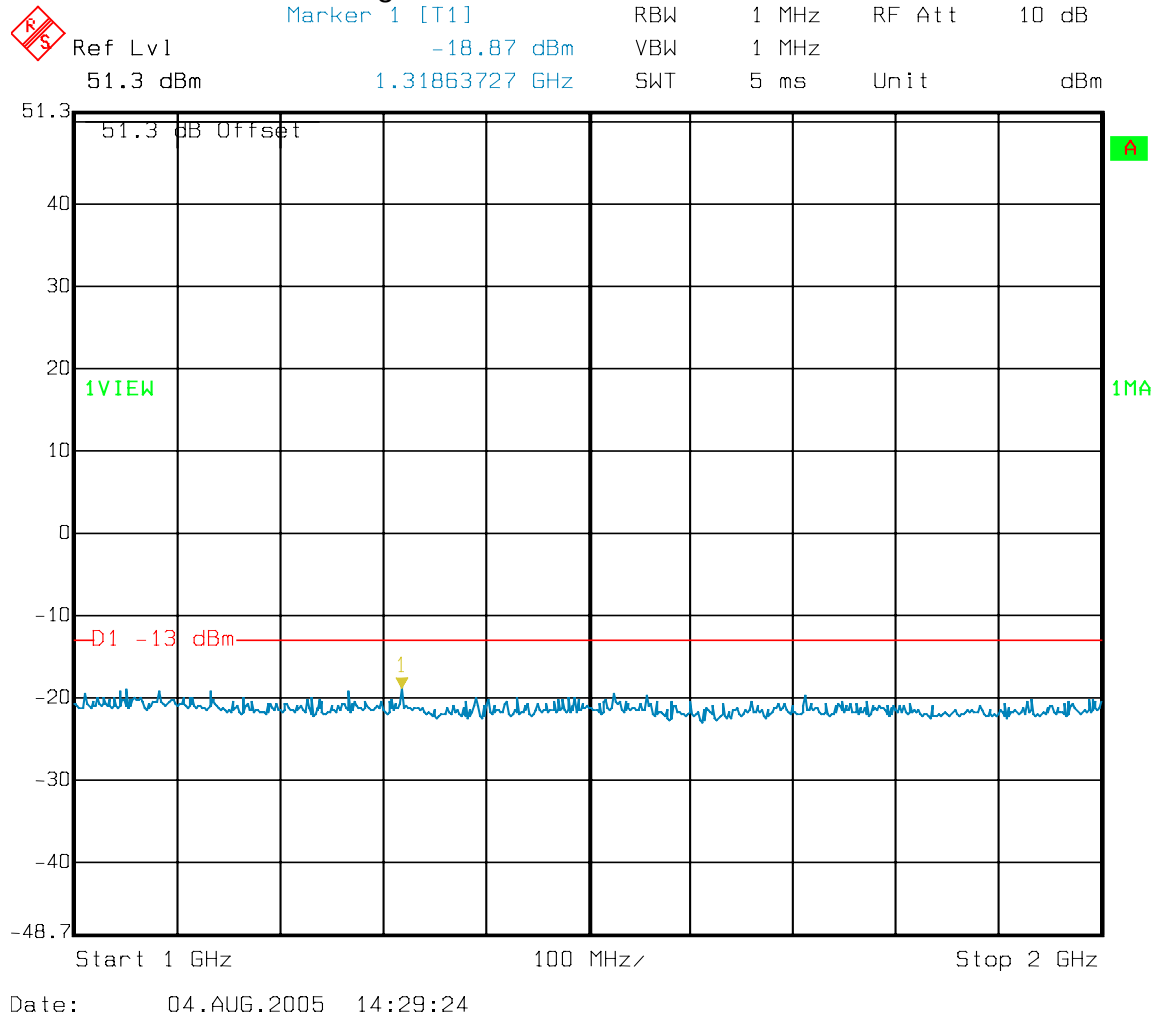
10 watts 25 deviation mid channel



EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

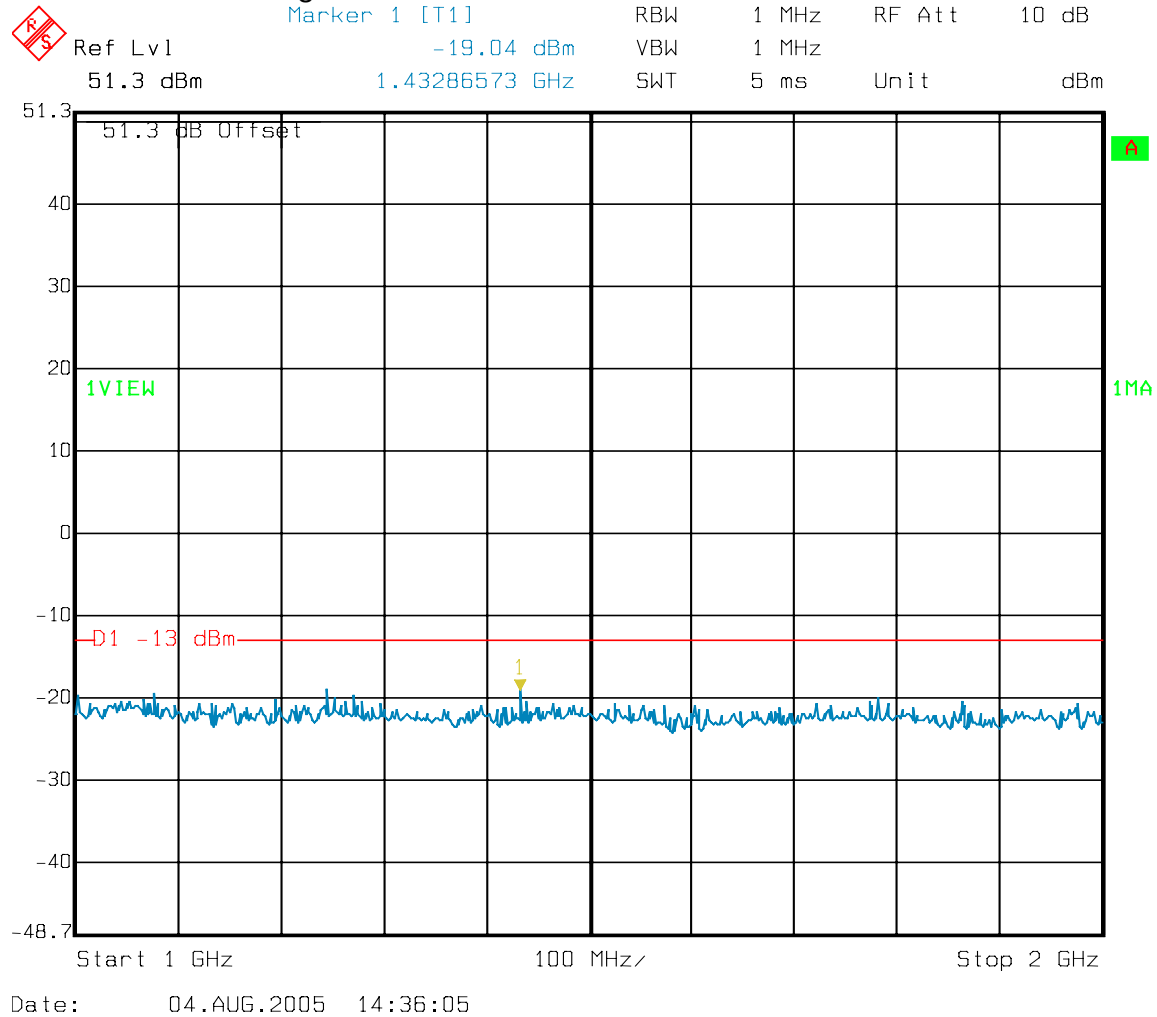
10 watts 25 deviation 1-2 ghz



EQUIPMENT: **192MHP**

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30 watt's 25 khz 1-2ghz



EQUIPMENT: **192MHP**

PROJECT NO.: **5L0185RUS1**

Section 7. Field Strength of Spurious Emissions

NAME OF TEST: Field Strength of Spurious Emissions	PARA. NO.: 2.993
TESTED BY: Kevin Rose	DATE: 8 Aug 05

Measurement Results: Complies.

Measurement Data: See attached data

EQUIPMENT: **192MHP**PROJECT NO.: **5L0185RUS1**

Test Data - Radiated Emissions

Field Strength of Spurious Emissions										
Page <u>1</u> of <u>1</u>		Complete <u>X</u>								
Job No.: 5L0185		Date: 8/17/2005		Preliminary <u> </u>						
Specification: Pt90		Temperature(°C): <u>24</u>								
Tested By: Kevin Rose		Relative Humidity(%) <u>45</u>								
E.U.T.: 192										
Configuration: TX into load										
Sample No: 1										
Location: A-OATS		RBW: 100 kHz		Measurement						
Detector Type: Peak		VBW: 100 kHz		Distance: <u>3</u> m						
Test Equipment Used										
Antenna: 760		Directional Coupler: <u> </u>								
Antenna 2: 1508		Cable #1: 1514								
PreAmp: 1554		Cable #2: <u> </u>								
Receiver: 765		Cable #3: <u> </u>								
Attenuator #1: <u> </u>		Cable #4: <u> </u>								
Attenuator #2: <u> </u>		Mixer: <u> </u>								
Additional equipment used: <u> </u>										
Measurement Uncertainty: <u>+/-1.7 dB</u>										
Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBi)		ERP (dBm)	ERP (mW)	Polarity	Comments
386	-57.5	30.7		24.6	1.0		-50.4	0.0000	V	
486	-49.4	34.6		24.8	1.0		-38.6	0.0001	V	
648	-37.9	37.3		25	1.0		-24.6	0.0035	V	
810	-52.6	40.2		24.5	1.0		-35.9	0.0003	V	
972	-60.3	44.6		24.8	1.0		-39.5	0.0001	V	
386	-54.5	30.7		24.6	1.0		-47.4	0.0000	H	
486	-51.1	34.6		24.8	1.0		-40.3	0.0001	H	
648	-38.2	37.3		25	1.0		-24.9	0.0032	H	
810	-48.2	40.2		24.5	1.0		-31.5	0.0007	H	
972	-64.7	44.6		24.8	1.0		-43.9	0.0000	H	
Notes: Searched spectrum from 30 MHz to 10th harmonic of carrier. All emissions are reported.										

Photographs of Test Setup



EQUIPMENT: 192MHP

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Section 8. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 2.995
TESTED BY: Kevin Rose	DATE: 8 Aug 05

Measurement Results: Complies.**Measurement Data:****Measurement Conditions:** Temperature: 23 °C

Humidity: 62 %

Measurement Uncertainty: +/- 10⁻⁷ ppm

Test Equipment: 1036, 1561, 1562, 970, 809, 1625, 298, 619

Mode CW
Standard Test Frequency: 160 MHz

Temp (°C)	Measured Frequency (MHz)	Rho	Test Voltage	Frequency Error (Hz)	Limit (+/-Hz)	Error (ppm)	Comment
20	162.000198		13	0	810.0	0	
20	162.000196		11.05	-2	810.0	0.0	
20	162.000194		14.95	-4	810.0	0.0	
50	162.000043		13	-155	810.0	-1.0	
40	162.000024		13	-174	810.0	-1.1	
30	162.000189		13	-9	810.0	-0.1	
10	162.00016		13	-38	810.0	-0.2	
0	162.000155		13	-43	810.0	-0.3	
-10	162.000063		13	-135	810.0	-0.8	
-20	162.000121		13	-77	810.0	-0.5	
-30	162.000239		13	41	810.0	0.3	
Notes:							

* Change compared to frequency at 20 degree C.

EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

Section 9. Transient Frequency Behavior

NAME OF TEST: Transient Frequency Behaviour	PARA. NO.: 90.214
TESTED BY: Kevin Rose	DATE: 8 Aug 05

Measurement Results: Complies.

Measurement Data: See attached plots

Measurement Conditions: Temperature: 23 °C
Humidity: 60 %

EQUIPMENT: 192MHP

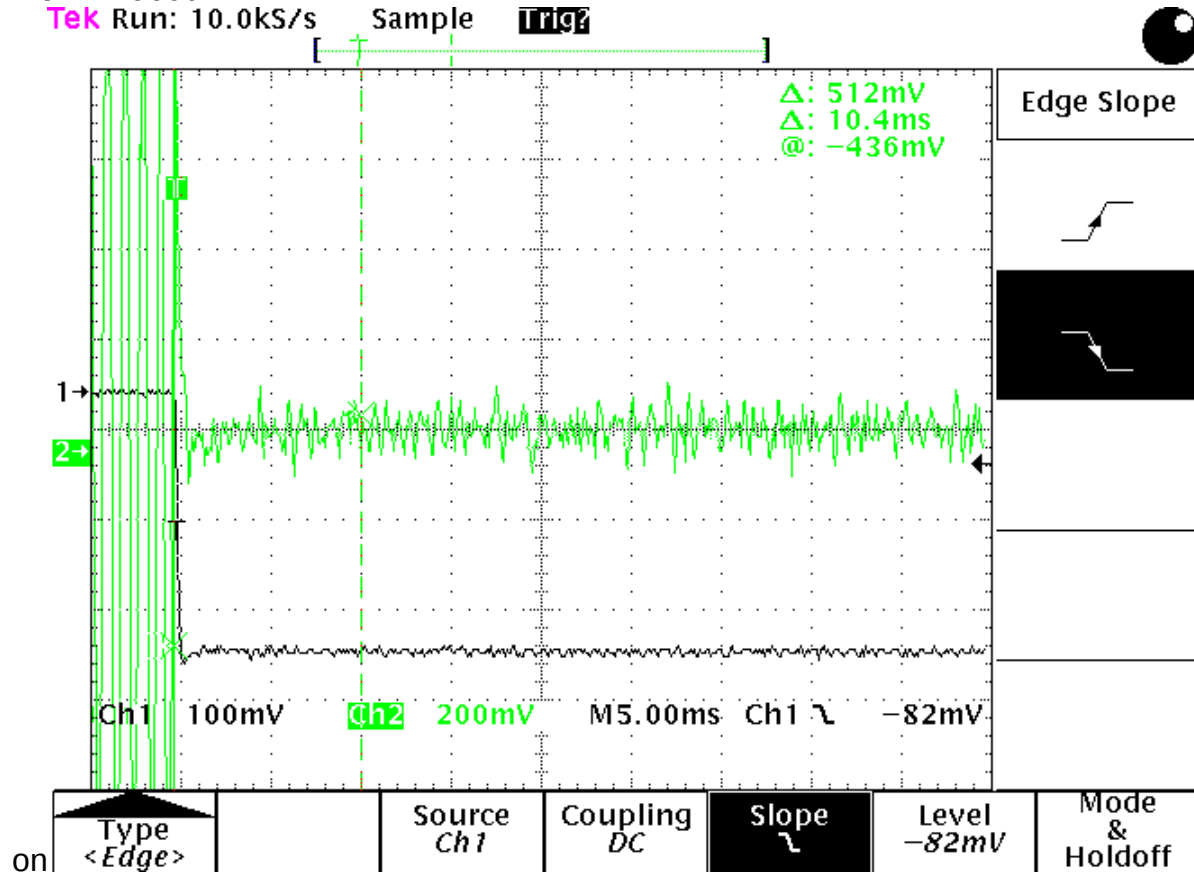
PROJECT NO.: 5L0185RUS1

Transient Frequency Response

Equipment used

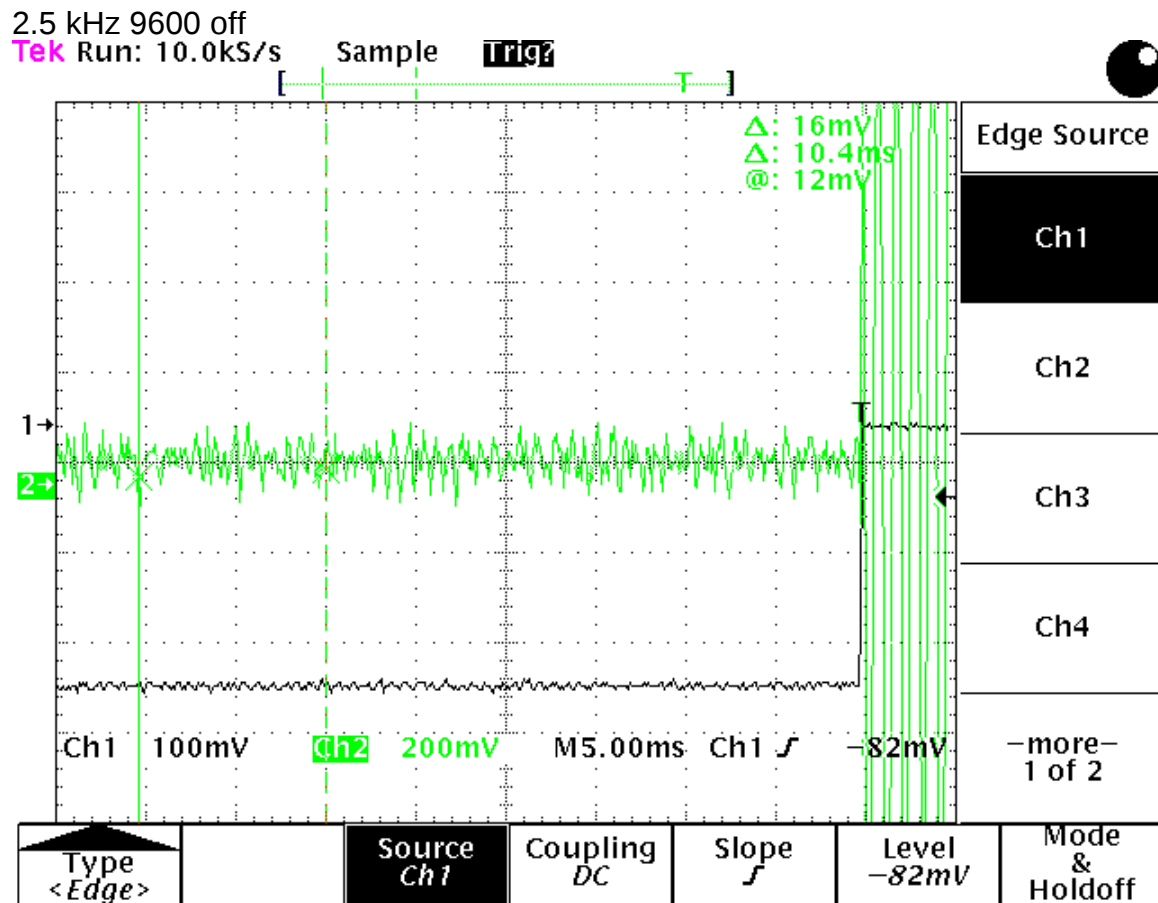
765, 1626, 2075, 1463, 973, 1036, 1087, 1054, 1561, 1562, and a SMIQ signal generator and 436A Diode Detector

2.5 kHz 9600



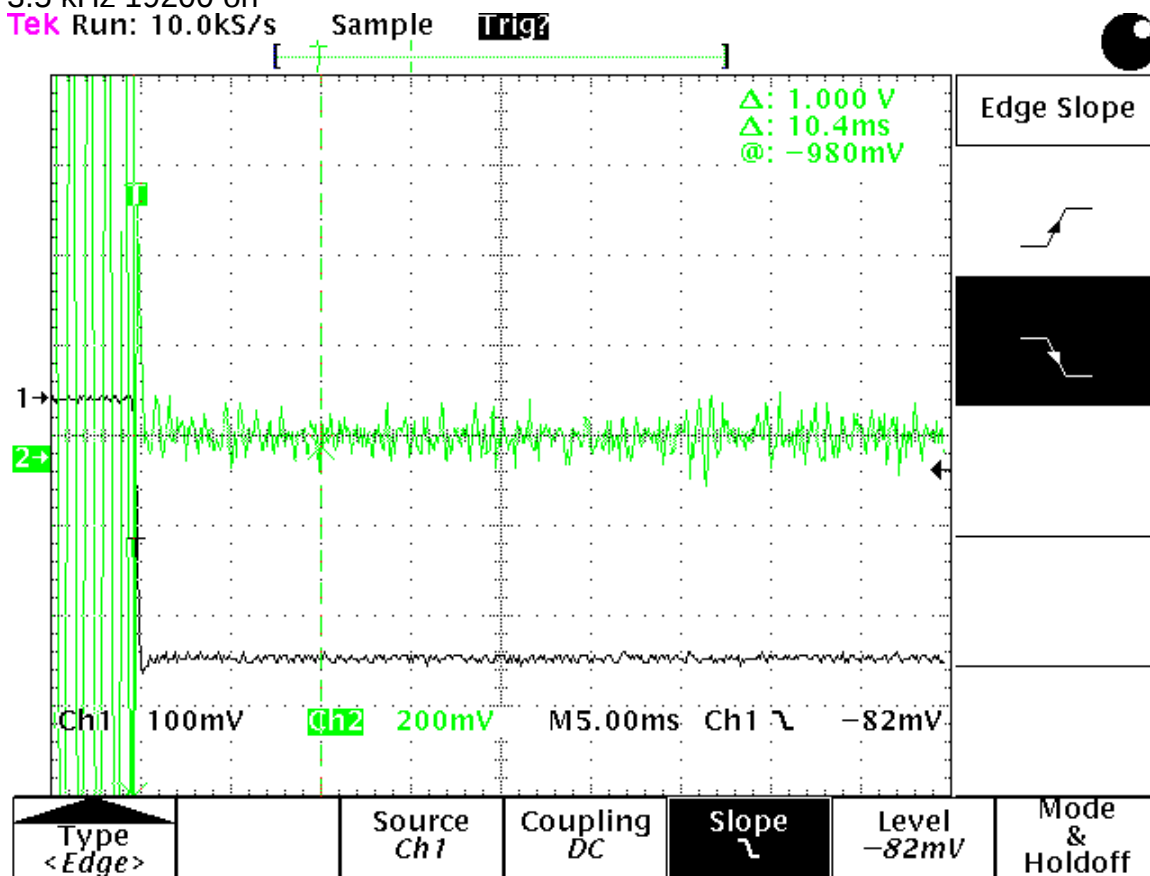
EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1



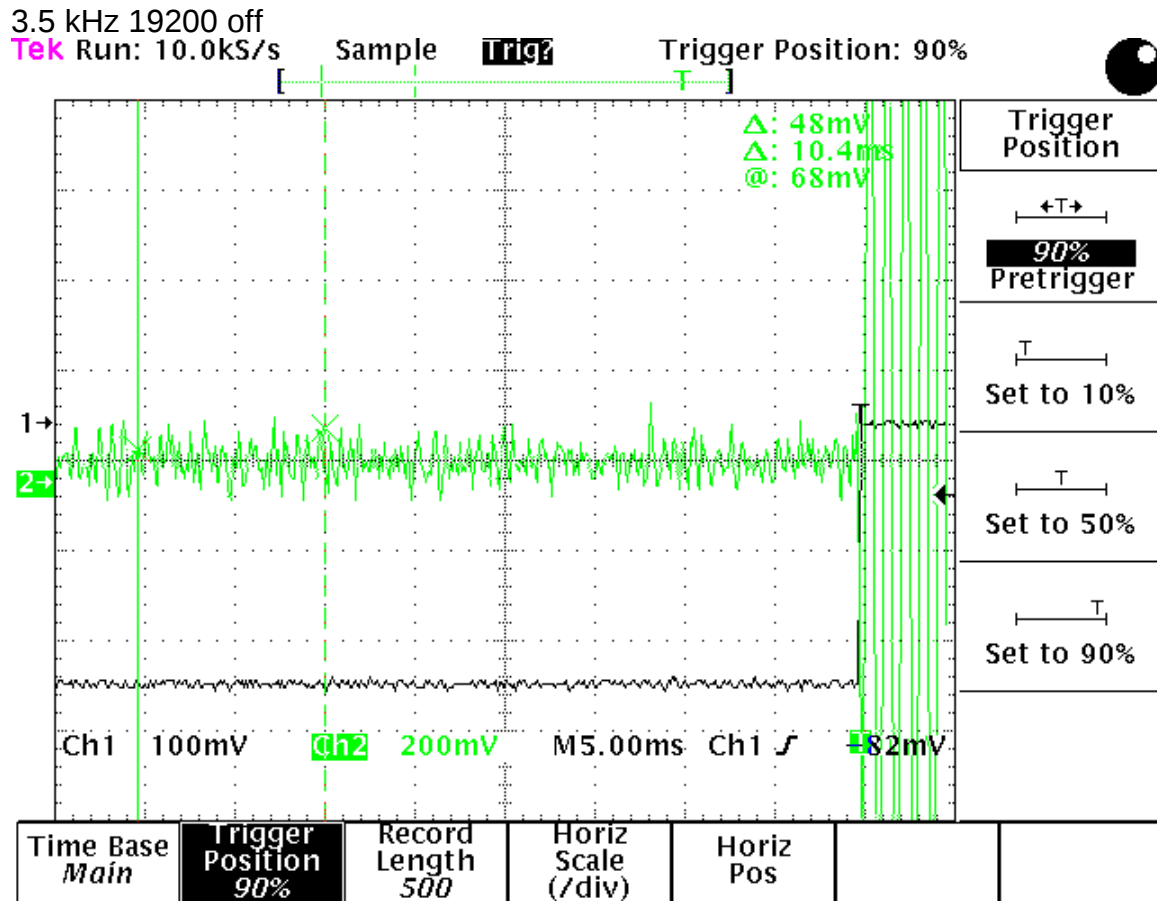
EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

3.5 kHz 19200 on
Tek Run: 10.0kS/s

EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1



EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

Section 10. Test Equipment List

Nemko ID	Description	Manufacturer	Serial Number	Calibration Date	Calibration Due
		Model Number			
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	03/22/04	03/23/06
1561	Attenuator 10db	Midwest Microwave 392-10	NONE	CBU	N/A
970	CABLE, 14.8m	KTL RG223	N/A	08/26/04	08/26/05
1625	CABLE, 18 ft	MEGAPHASE 10311 1GVT4	N/A	08/26/04	08/26/05
809	Coaxial attenuator	Bird Electronic 8325	1036	CBU	CBU
283	Environmental Chamber with controller # 1189006	ENVIROTRONICS SH27 & 2030-22844	129010083	04/22/03	04/21/04
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	11/12/04	11/12/05
1048	50 OHM LOAD	NARDA 27470	254	Cal B4 Use	N/A
1064	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A
1463	Color 4 Ch Digitizing Oscilloscope	Tektronix TDS684A	B010460	02/03/05	02/03/06
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	01/14/05	01/15/07
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	08/26/04	08/26/05
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	08/26/04	08/26/05
1990	CABLE, 4.8m	KTL RG214	N/A	04/20/05	04/20/06
619	THERMOMETER	FLUKE 51	4520028	09/16/04	09/16/05

ANNEX A - TEST METHODOLOGIES

EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

NAME OF TEST: RF Power Output**PARA. NO.: 2.985**

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:

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

E = the maximum measured field strength in V/m

R = the measurement range (3 meters)

G = the numeric gain of the transmit antenna in relation to an isotropic radiator

EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

NAME OF TEST: Audio Frequency Response**PARA. NO.: 2.987(a)****Test Method:** TIA/EIA-603**Minimum Standard:** TIA/EIA-603, Para. 3.2.6 from 300 Hz to 3000 Hz.
Thetransmitter audio frequency response shall have a nominal 6
dB per octave pre-emphasis characteristic.**NAME OF TEST: Audio Low-Pass Filter Frequency
Response****PARA. NO.: 2.987(a)****Test Method:** TIA/EIA-603**Minimum Standard:** TIA/EIA-603**NAME OF TEST: Modulation Limiting****PARA. NO.: 2.987(a)****Test Method:** TIA/EIA-603**Minimum Standard:** TIA/EIA-603

EQUIPMENT: 192MHP

PROJECT NO.: 5L0185RUS1

NAME OF TEST: Occupied Bandwidth

PARA. NO.: 2.989

Minimum Standard:
mask.

Para. No. 90.210, see table 1 below for applicable

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

Test Method:

RBW: 1% of emission bandwidth in 0 - 1 GHz range. 1 MHz at frequencies above 1 GHz.

VBW: ⇒ RBW

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

EQUIPMENT: 192MHP

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NAME OF TEST: Field Strength of Spurious

PARA. NO.: 2.993

Minimum Standard: Para. No. 90.210, see table 1 for applicable mask.**Calculation of Field Strength Limit**

An example of attenuation requirement of $50 + 10 \log P$ is equivalent to -20 dBm (1×10^{-5} Watts) at the antenna terminal. We determine the field strength limit by using the plane wave relation.

$$GP/4\pi R^2 = E^2/120\pi$$

For emissions ≤ 1 GHz:

G = 1.64 (Dipole Gain)

P = 10^{-5} Watts (Maximum spurious output power)

R = 3m (Measurement Distance)

$$E = \frac{\sqrt{30GP}}{R} = E = \frac{\sqrt{30 \times 1.64 \times 10^{-5}}}{3} = 0.00739 \text{ V / m} = 77.4 \text{ dB}\mu\text{V / m}$$

For emissions > 1 GHz:

G = 1 (Isotropic Gain)

P = 1×10^{-5} Watts (Maximum spurious output power)

R = 3m (Measurement Distance)

$$E = 77.4 - 20 \log \sqrt{1.64} = 75.2 \text{ dB}\mu\text{V / m@3m}$$

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: 192MHP

PROJECT NO.: 5L0185RUS1

NAME OF TEST: Frequency Stability**PARA. NO.: 2.995**

Minimum Standard: Para. No. 990.213. 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	-	-	-

NAME OF TEST: Transient Frequency Behaviour**PARA. NO.: 2.214****Minimum Standard:****Transient Frequency Behaviour for Equipment Designed to Operate on 25 kHz Channels**

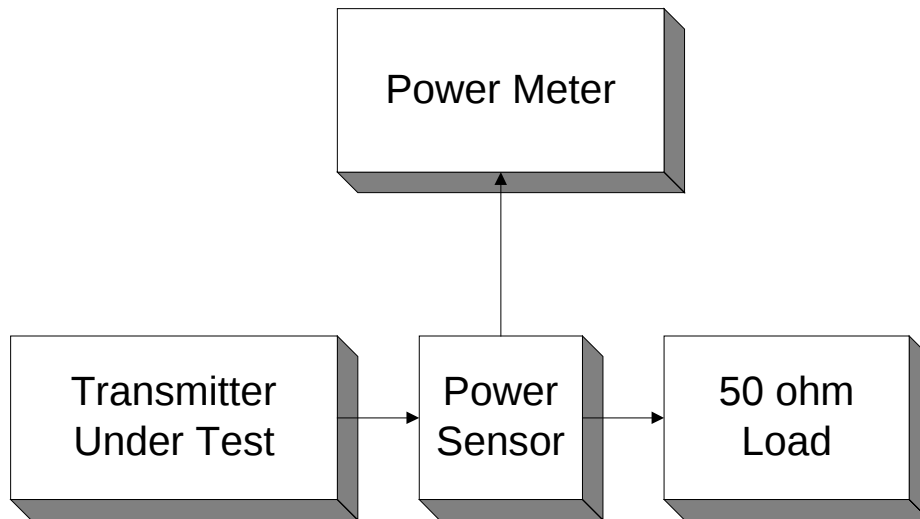
Time intervals ^{1,2}	Maximum Frequency difference ³ (kHz)	Frequency ranges (MHz) All equipment					
		Base station and portable radios			Mobile Radios		
		150 - 174 (ms)	450 - 500 (ms)	500 - 512 (ms)	150 - 174 (ms)	450 - 500 (ms)	500 - 512 (ms)
t ₁ ⁴	± 25	5.0	10.0	20.0	5.0	10.0	5.0
t ₂	± 12	20.0	25.0	50.0	20.0	25.0	20.0
t ₃ ⁴	± 25	5.0	10.0	10.0	5.0	10.0	5.0

Transient Frequency Behaviour for Equipment Designed to Operate on 12.5 kHz & 6.25 kHz Channels

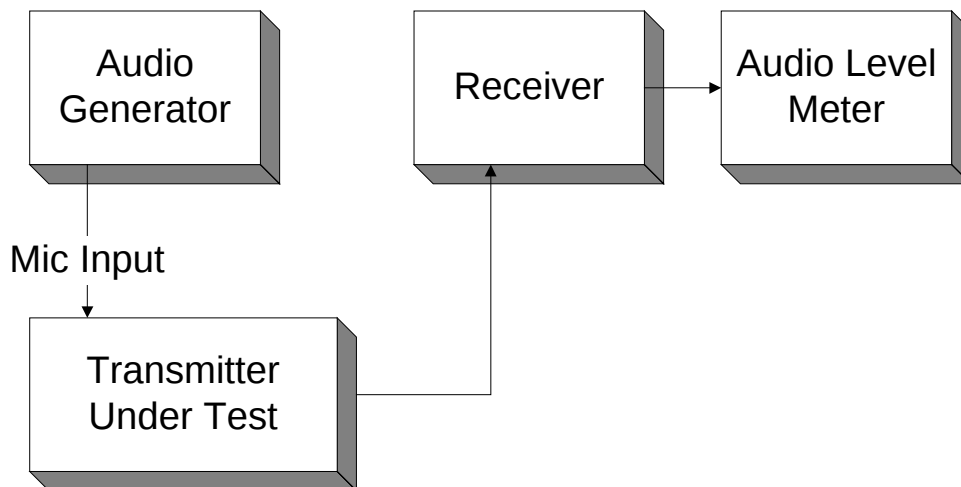
Time intervals ^{1,2}	Maximum Frequency difference ³ (kHz)	Frequency ranges (MHz) All equipment		
		150 - 174 (ms)	450 - 500 (ms)	500 - 512 (ms)
t ₁ ⁴	± 12.5 / ± 6.25	5.0	10.0	20.0
t ₂	± 6.25 / ± 3.125	20.0	25.0	50.0
t ₃ ⁴	± 12.5 / ± 6.25	5.0	10.0	10.0

ANNEX B - TEST DIAGRAMS

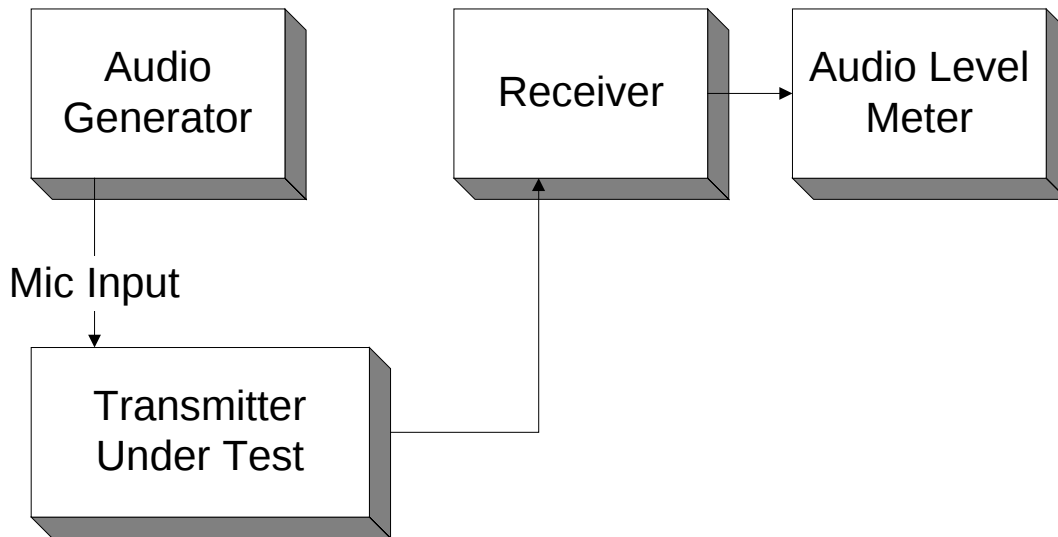
Para. No. 2.985 - R.F. Power Output



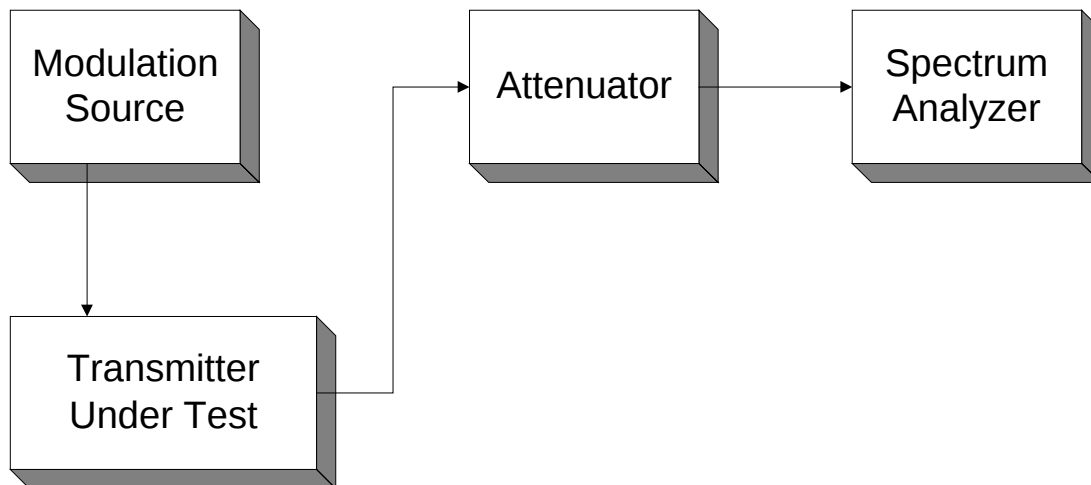
Para. No. 2.987(a) - Audio Frequency Response



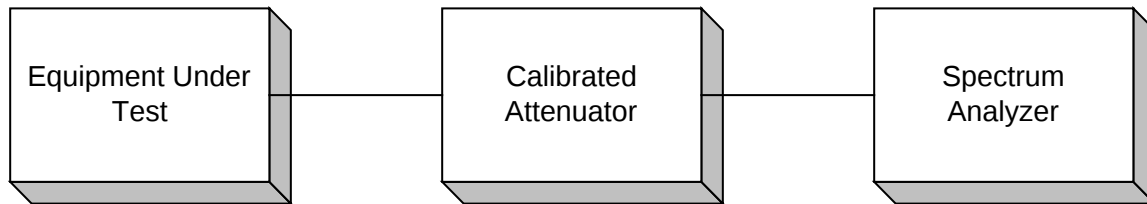
Para. No. 2.987(b) - Modulation Limiting



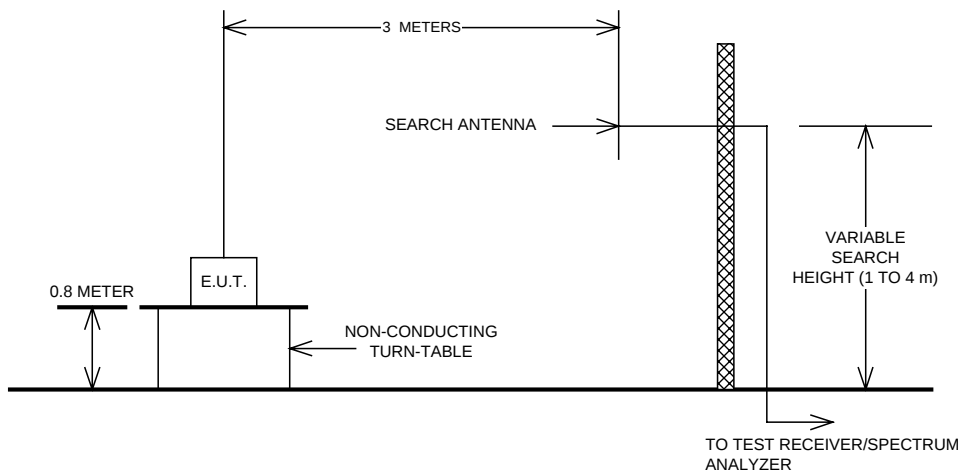
Para. No. 2.989 - Occupied Bandwidth



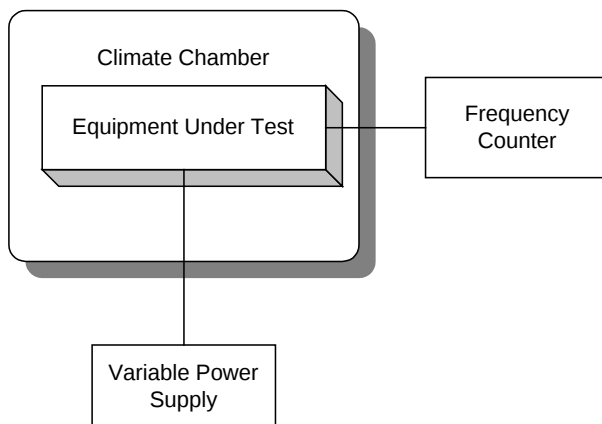
Para. No. 2.991 - Spurious Emissions at Antenna Terminals

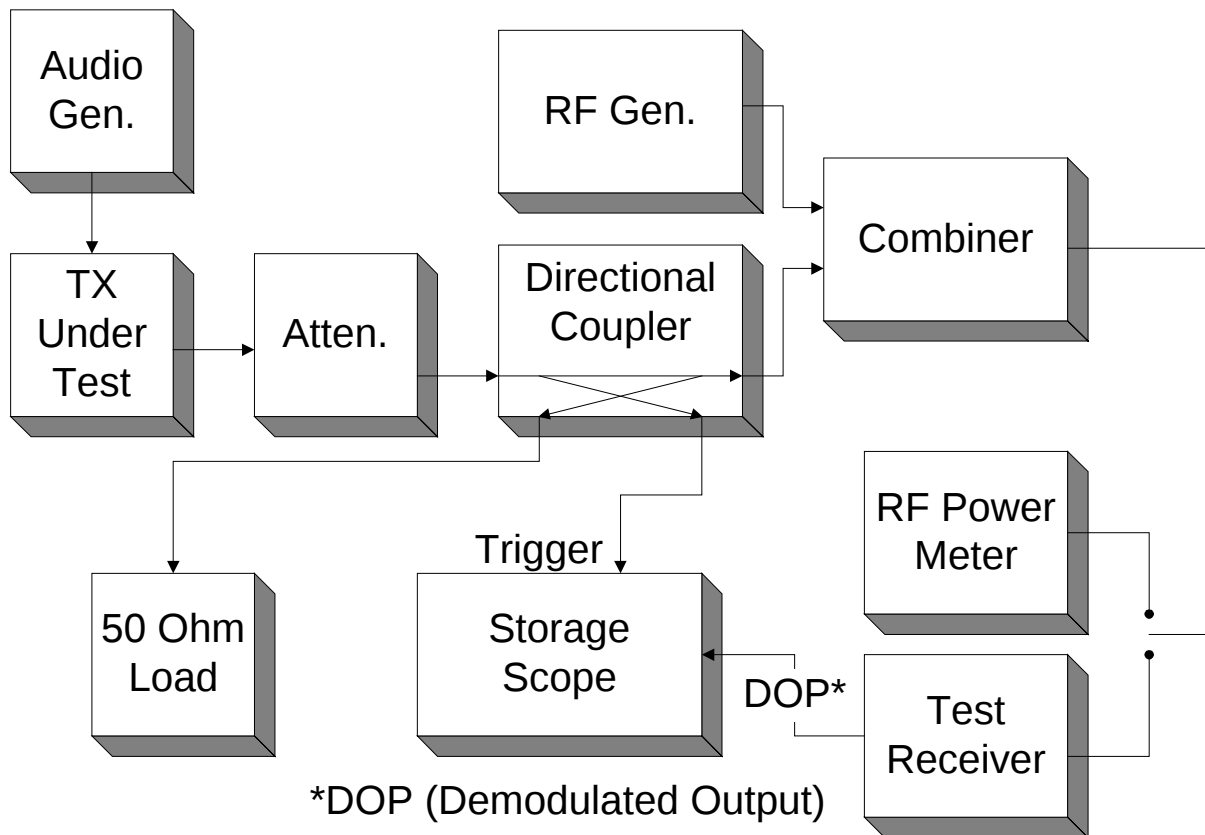


Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability



Para. No. 90.214 - Transient Frequency Behaviour**Voice**

This measurement was made using measurement procedure TIA/EIA Land Mobile FM or PM Communications Equipment Measurement and Performance Standards TIA/EIA-603 February 1993 Telecommunications Industry Association (American National Standard ANSI/TIA/EIA-603-1992 Approved: October 27, 1992) Para. no. 2.2 Methods of Measurement for Transmitters

Para. no. 2.2.19 Transient Frequency Behaviour (page no. 83).

Data

This measurement was made using measurement procedure TIA/EIA Digital C4FM/CQPSK Transceiver Measurement Methods TSB102.CAAA Para. no. 2.2.17 Transient Frequency Behaviour (page no. 74).