Nemko Test Report:	4L0348RUS1
Applicant:	Andrew Corporation 108 Rand Park Drive Garner, NC 27529
Equipment Under Test: (E.U.T.)	TFAM2632/4
In Accordance With:	**FCC Part 90, Subpart I** Transmitter
Tested By:	Nemko Dallas Inc. 802 N. Kealy Lewisville, TX 75057-3136
Authorized By:	 Dustin Oaks, Account Manager
Date:	05/28/2004

Table of Contents

Section 1. Summary of Test Results

Manufacturer: Andrew Corporation

Model No.: TFAM2632/4

Serial No.: 041501104

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".

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	90.205		Complies
Audio Frequency Response	TIA EIA-603.3.2.6	N/A	N/A
Audio Low-Pass Filter Response	TIA EIA-603.3.2.6	N/A	N/A
Modulation Limiting	TIA EIA-603.3.2.6	N/A	N/A
Occupied Bandwidth	90.210	Plots	Complies
Spurious Emissions at Antenna Terminals	90.210	Mask G and H	Complies
Field Strength of Spurious Emissions	90.210		Complies
Frequency Stability	90.213		Complies
Transient Frequency Behavior	90.214	N/A	N/A

Footnotes For N/A's:

(1) Since the E.U.T. does not contain modulation circuitry modulation testing was not performed.
(2) Since the E.U.T. is not a keyed carrier system, Transient Frequency Behavior was not performed.

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Section 2. General Equipment Specification

Transmitter

Supply Voltage Input: 48 Vdc

Frequency Range: 851.0125 to 868.9875

Type(s) of Modulation:

F3E (Analog)	F1D	F2D	D7W (QAM)	Other
☒	☐	☐	☒	☐

Gain: 18 dB

Output Impedance: 50 Ohms

RF Output (Rated per carrier):

Number of Carriers:	1	2	4	8
iDEN	21	17	13	9
Analog	27	27	17	13

Operator Selection of Operating Frequency: None – Full band coverage

Power Output Adjustment Capability: None

Frequency Translation:

F1-F1	F1-F2	N/A
☒	☐	☐

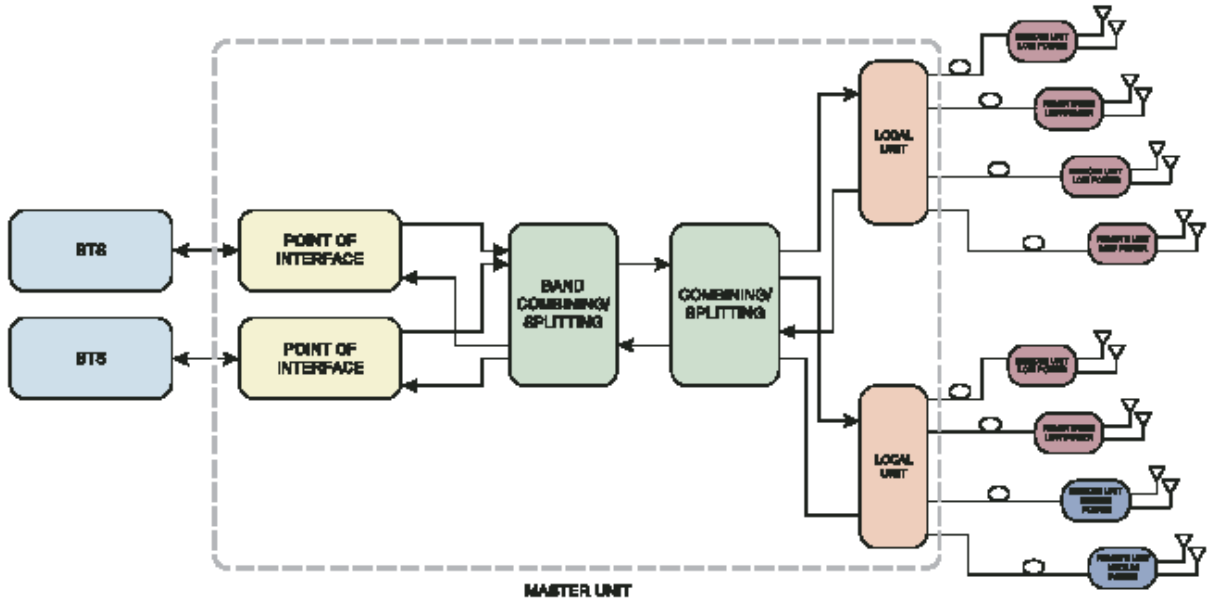
Band Selection:

Software	Duplexer Change	Fullband Coverage
☐	☐	☒

Description of EUT

Britecell Plus is a radio over fiber system

System Diagram



Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 2.985
TESTED BY: David Light	DATE:5/26/04

Test Results: Complies.

Measurement Data:

Modulation Type	Single Carrier (dBm)	Per Channel Power Output (dBm)	Composite Power Output (dBm)
Analog	27	20	23
iDEN	21	17	20

Equipment Used: 1036-1029-1064

Measurement Uncertainty: +/- 1.7 dB

Temperature: 22 °C

Relative Humidity: 40 %

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.989
TESTED BY: David Light	DATE:5/26/04

Test Results: Complies.

Test Data: See attached graph(s).

Test Data – Occupied Bandwidth

Dallas Headquarters:
802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

Nemko Dallas, Inc.

Data Plot **Occupied Bandwidth**

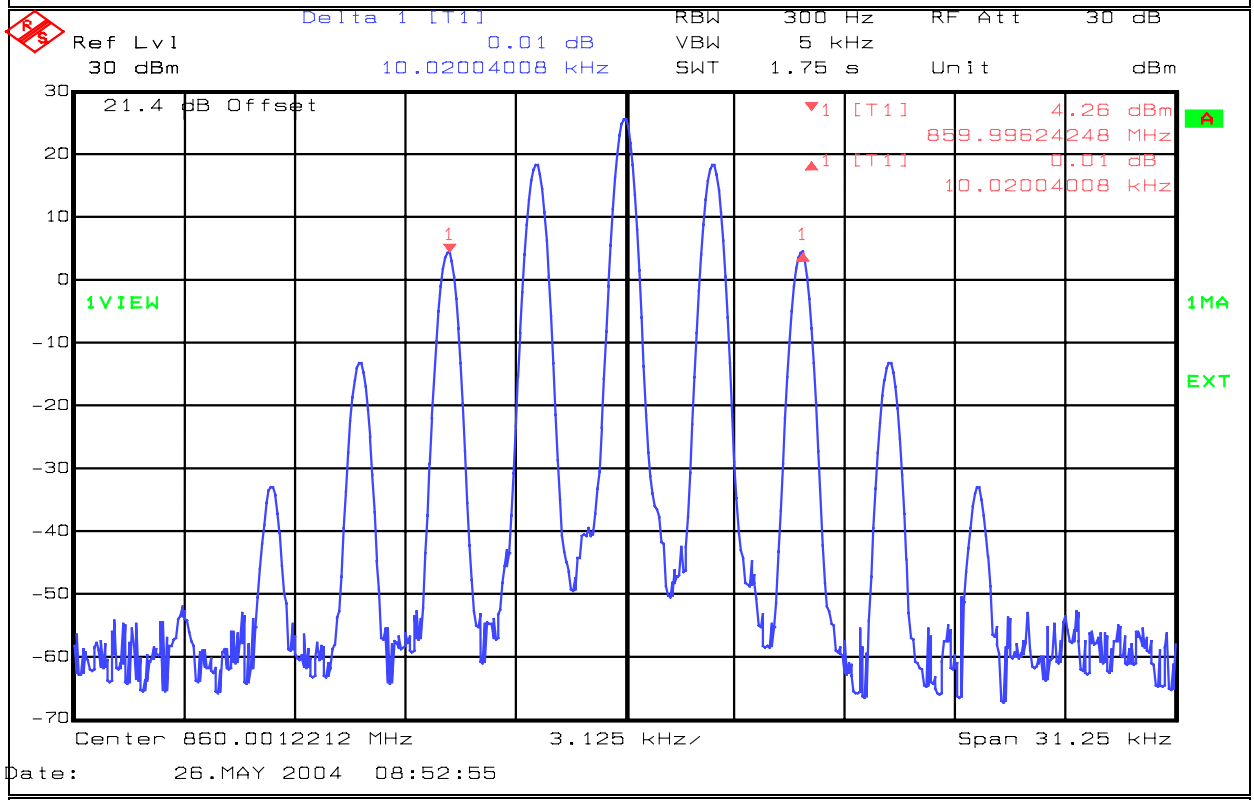
Page 1 of 2

Complete X
Preliminary:

Job No.: 4L0348 Date: 5/26/2004
Specification: PT90 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DUAL BAND AMP
Configuration: TX FULL POWER
Sample Number: 1
Location: Lab 1 RBW: Refer to plots Measurement
Detector Type: Peak VBW: Refer to plots Distance: NA m

Test Equipment Used

Antenna: Directional Coupler:
Pre-Amp: Cable #1: #N/A
Filter: Cable #2:
Receiver: 1036 Cable #3:
Attenuator #1 1064 Cable #4:
Attenuator #2: Mixer:
Additional equipment used:
Measurement Uncertainty: +/-1.7 dB



Notes: **Analog**
2.5 kHz Tone - 2 kHz Deviation

Test Data – Occupied Bandwidth

Dallas Headquarters:
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Lewisville, TX 75057
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Fax: (972) 436-2667

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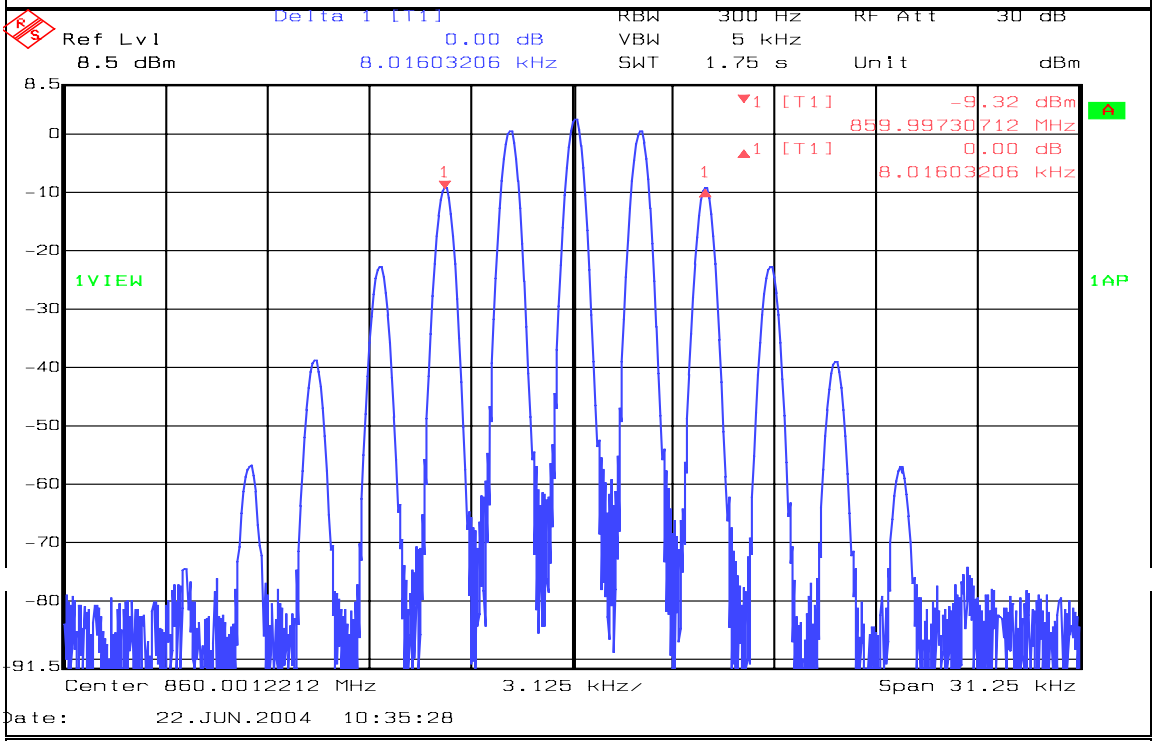
Test Plot: **Occupied Bandwidth**

Page 3 of 4

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **Input analog**

Test Data – Occupied Bandwidth

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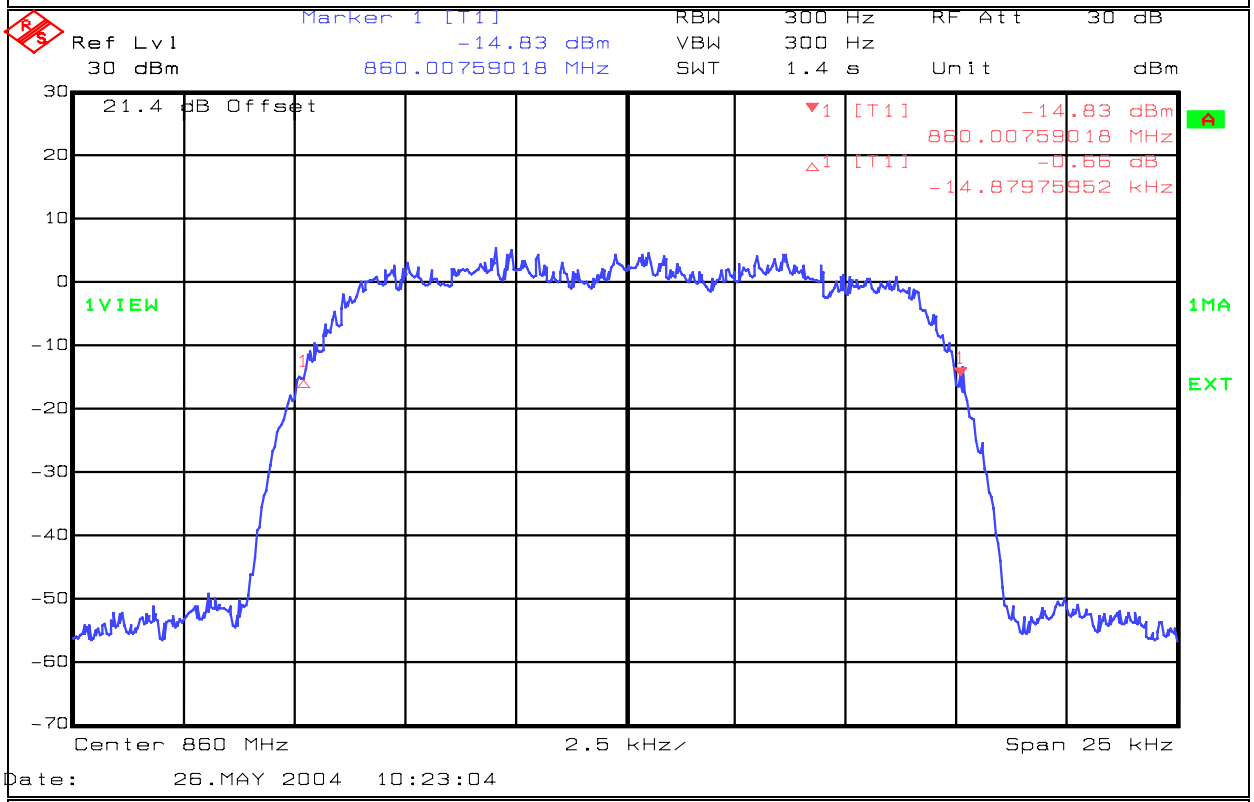
Data Plot — **Occupied Bandwidth**

Page 2 of 2

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **iDEN**
20 dB Bandwidth

Test Data – Occupied Bandwidth

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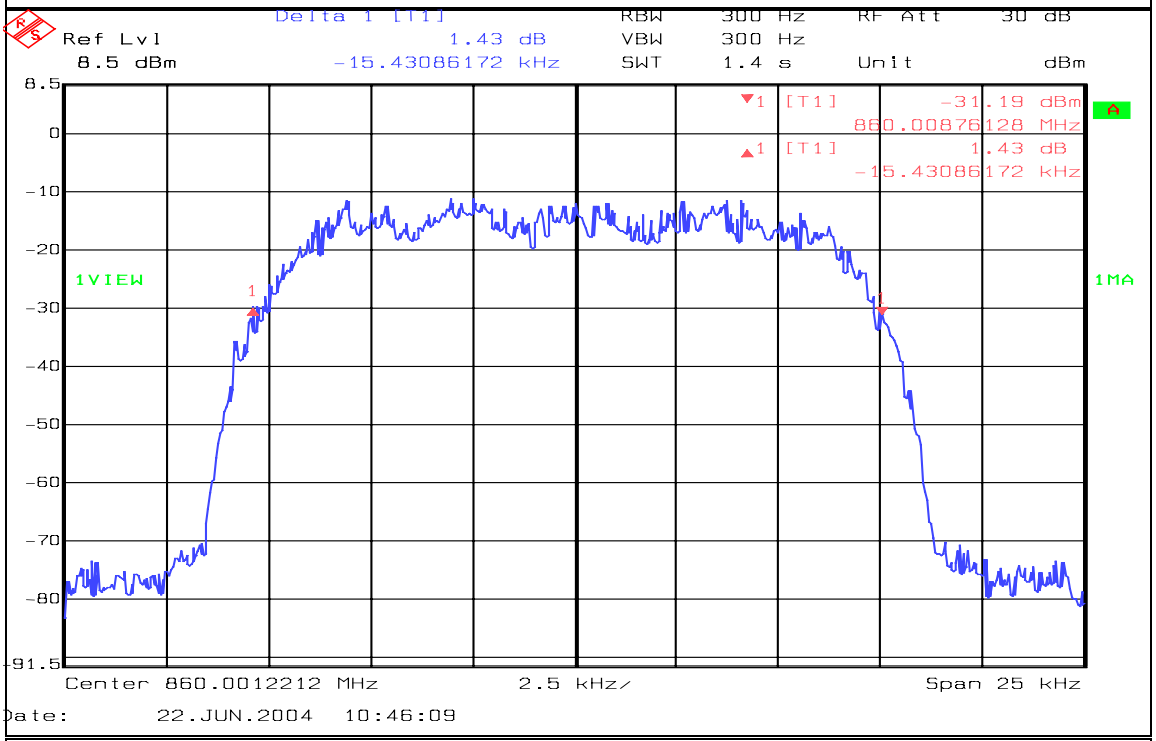
Test Plot: **Occupied Bandwidth**

Page 4 of 4

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **Input iDEN**

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.991
TESTED BY: David Light	DATE:5/26/04

Test Results: Complies.

Test Data: See attached graph(s).

Test Data – Spurious Emissions at Antenna Terminals

Dallas Headquarters:
802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

Nemko Dallas, Inc.

Data Plot — **Spurious Emissions at Antenna Terminals**

Page 1 of 4 — Complete X — Preliminary:

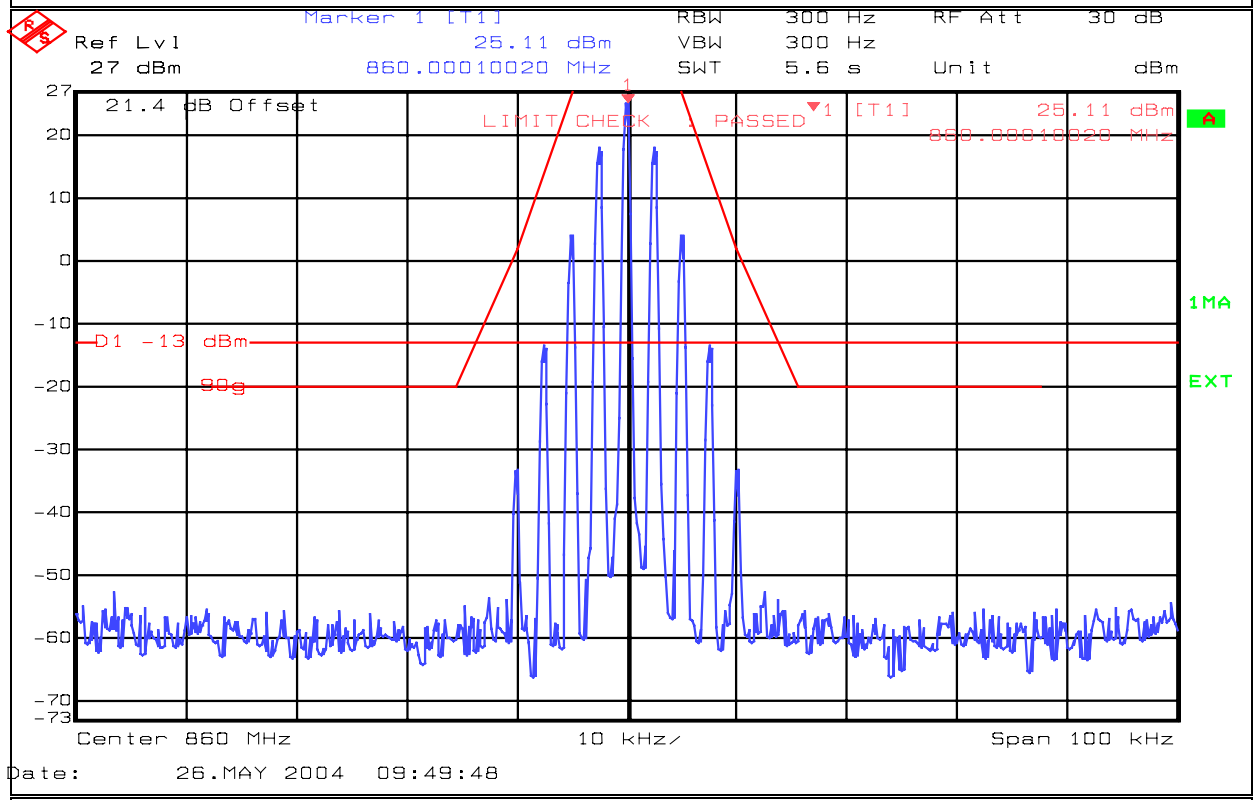
Job No.:	4L0348	Date:	5/26/2004		
Specification:	PT90	Temperature(°C):	22		
Tested By:	Lance Walker	Relative Humidity(%)	40		
E.U.T.:	DUAL BAND AMP				
Configuration:	TX FULL POWER				
Sample Number:	1				
Location:	Lab 1	RBW:	Refer to plots	Measurement	
Detector Type:	Peak	VBW:	Refer to plots	Distance:	NA m

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	#N/A
Filter:		Cable #2:	
Receiver:	1036	Cable #3:	
Attenuator #1	1064	Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:

Measurement Uncertainty: +/-1.7 dB



Notes: **Analog**

Test Data – Spurious Emissions at Antenna Terminals

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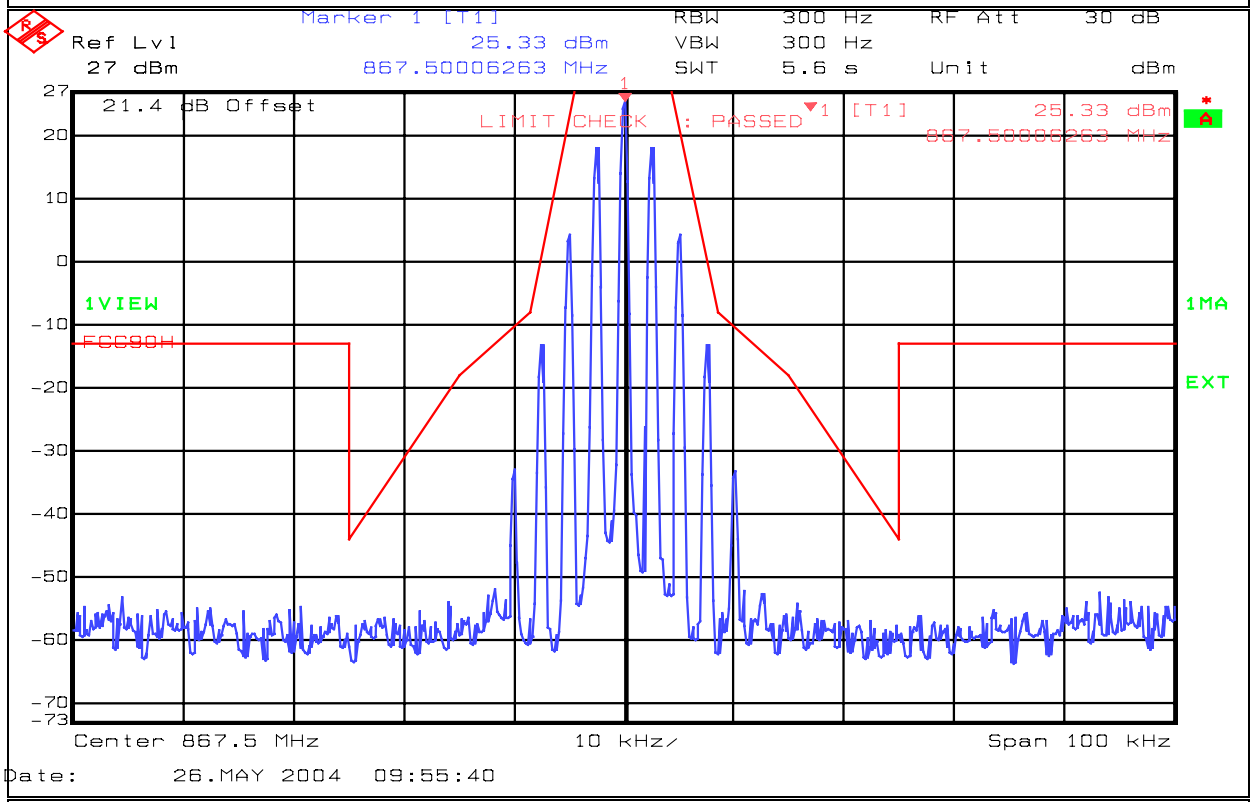
Nemko Dallas, Inc.

Data Plot — **Spurious Emissions at Antenna Terminals**

Page 2 of 4

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	Lance Walker	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: Analog

Test Data – Spurious Emissions at Antenna Terminals

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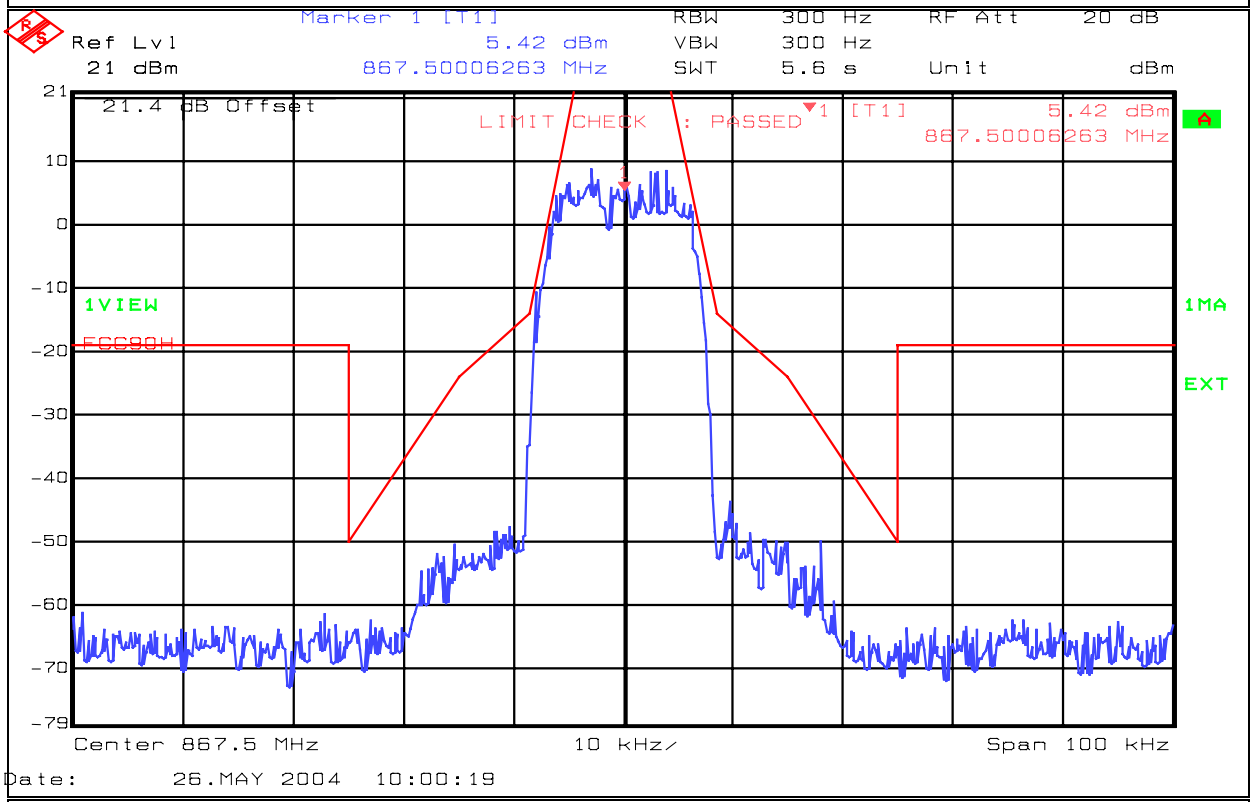
Nemko Dallas, Inc.

Data Plot — **Spurious Emissions at Antenna Terminals**

Page 3 of 4

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	Lance Walker	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **iDEN**

Test Data – Spurious Emissions at Antenna Terminals

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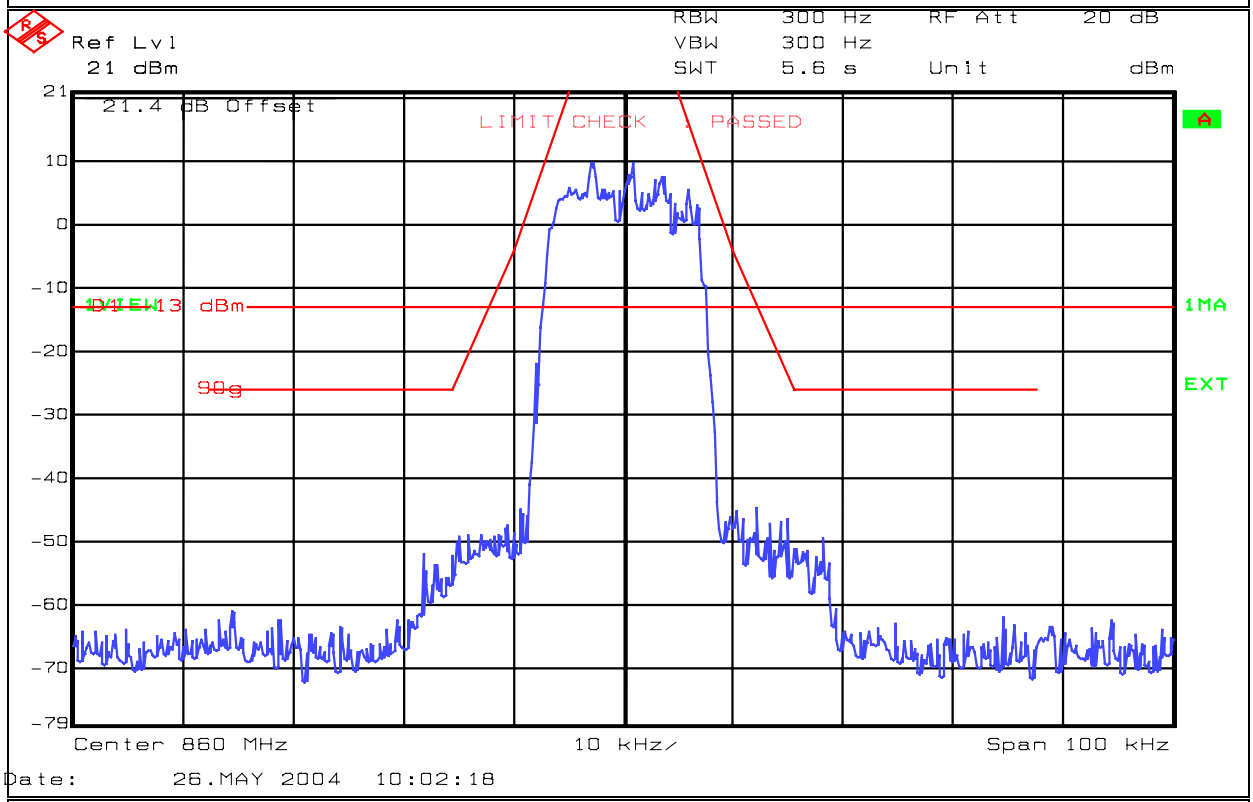
Nemko Dallas, Inc.

Test Plot: **Spurious Emissions at Antenna Terminals**

Page 4 of 4

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	Lance Walker	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes:

Test Data – Spurious Emissions at Antenna Terminals

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Data Plot **Spurious Emissions at Antenna Terminals**

Page 1 of 6 Complete X

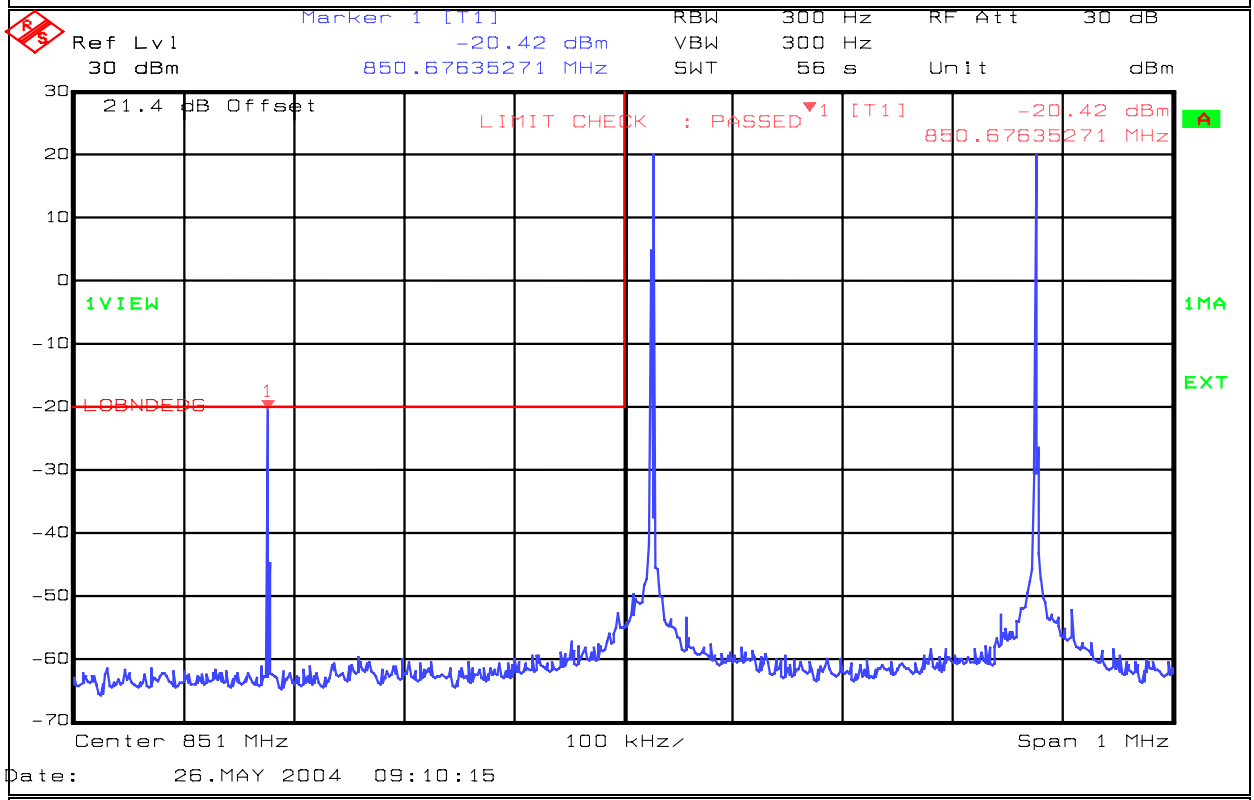
Job No.:	4L0348	Date:	5/26/2004	Preliminary:	
Specification:	PT90	Temperature(°C):	22		
Tested By:	David Light	Relative Humidity(%)	40		
E.U.T.:	DUAL BAND AMP				
Configuration:	TX FULL POWER				
Sample Number:	1				
Location:	Lab 1	RBW:	Refer to plots	Measurement	
Detector Type:	Peak	VBW:	Refer to plots	Distance:	NA m

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	#N/A
Filter:		Cable #2:	
Receiver:	1036	Cable #3:	
Attenuator #1	1064	Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:

Measurement Uncertainty: +/-1.7 dB



Notes: **Analog**

20 dBm per carrier - 23 dBm Composite power

Test Data – Spurious Emissions at Antenna Terminals

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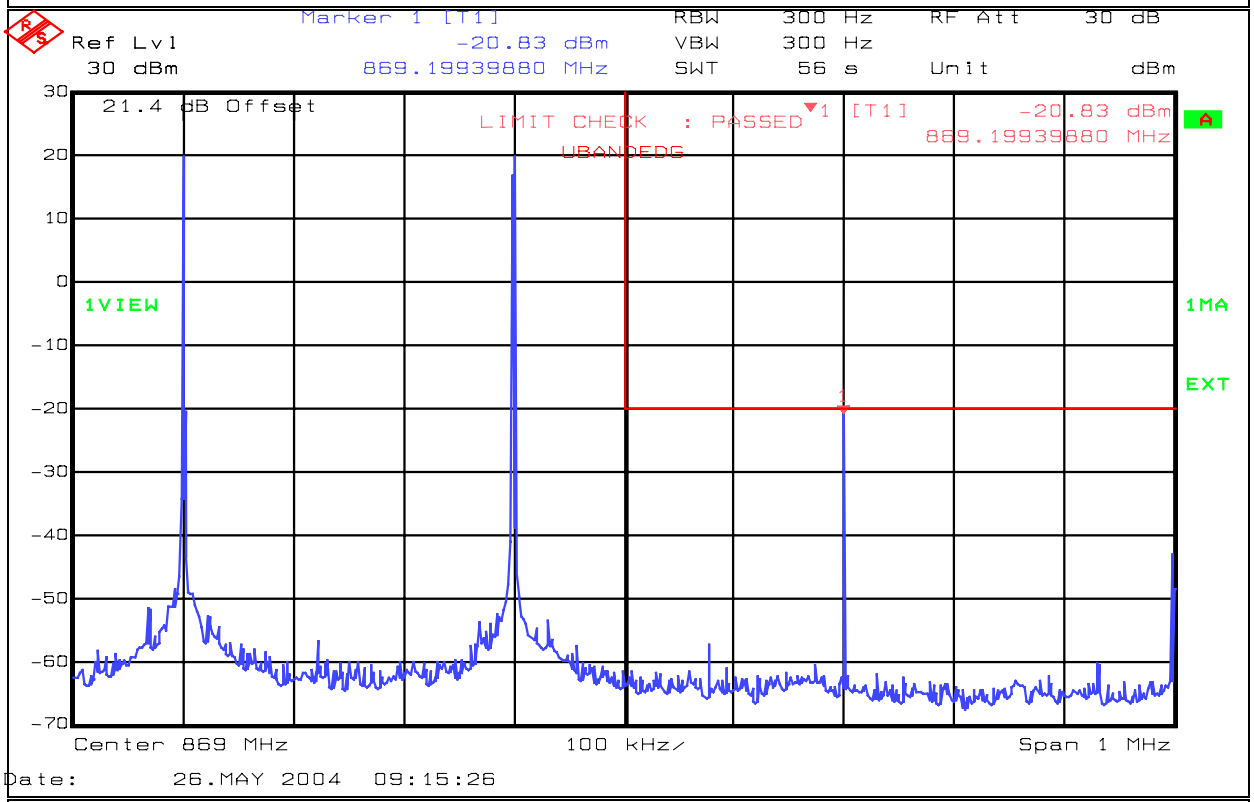
Data Plot — **Spurious Emissions at Antenna Terminals**

Page 2 of 6

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **Analog**
20 dBm per carrier - 23 dBm composite power

Test Data – Spurious Emissions at Antenna Terminals – Low Channel

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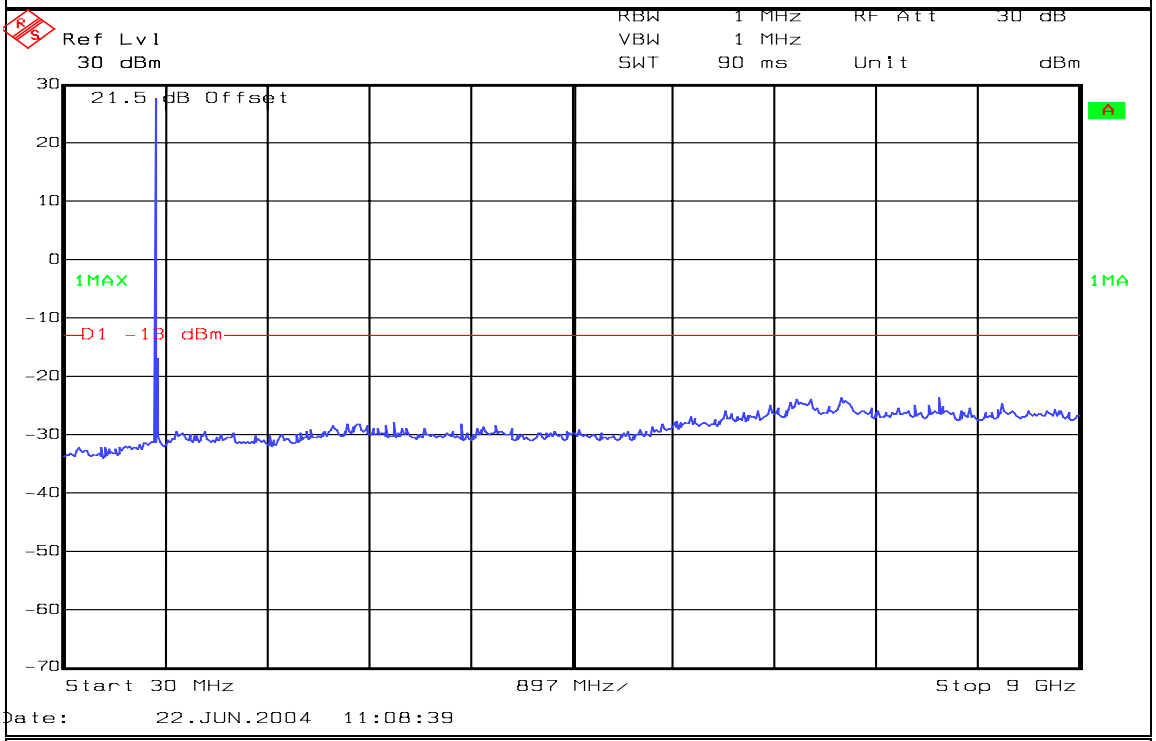
Test Plot: **Spurious Emissions at Antenna Terminals**

Page 4 of 6

Job No.:	4L0348	Date:	6/22/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **Analog**
Low channel

Test Data – Spurious Emissions at Antenna Terminals – Mid Channel

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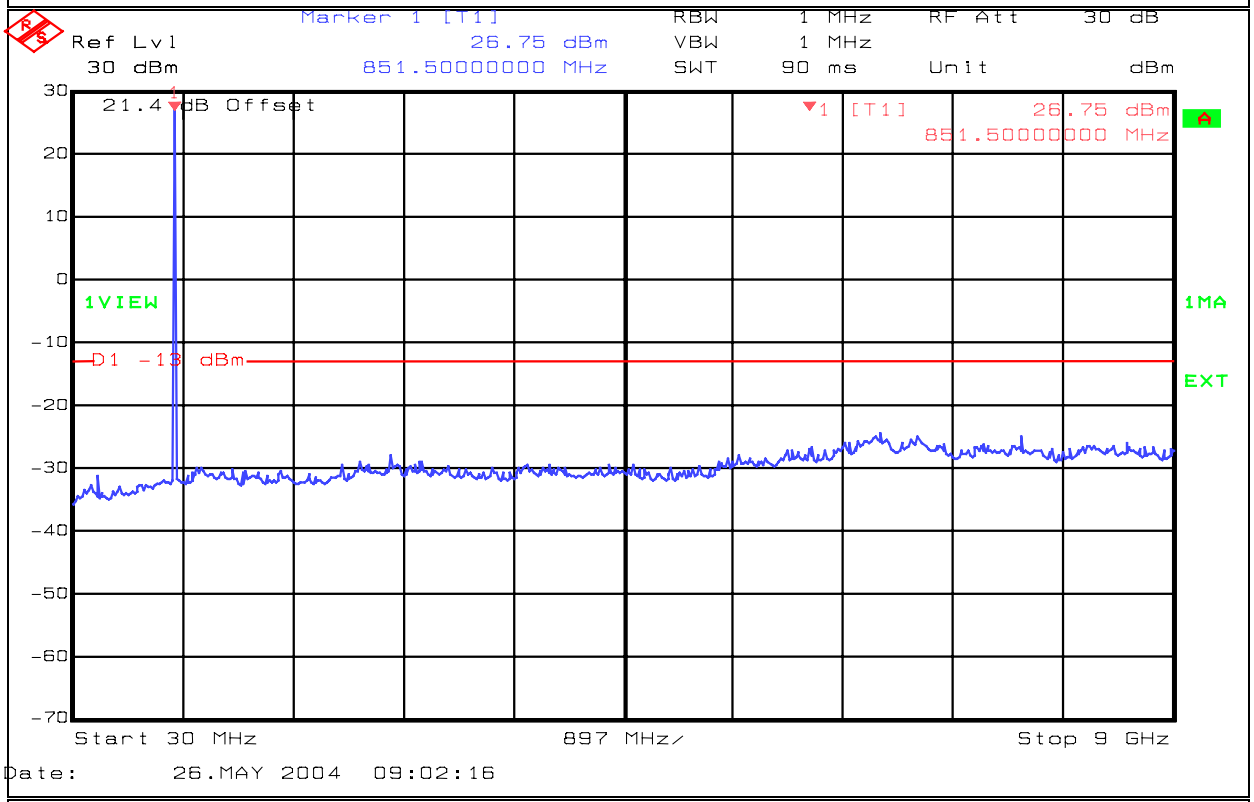
Nemko Dallas, Inc.

Data Plot — **Spurious Emissions at Antenna Terminals**

Page 3 of 6

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **Analog**

Test Data – Spurious Emissions at Antenna Terminals – High Channel

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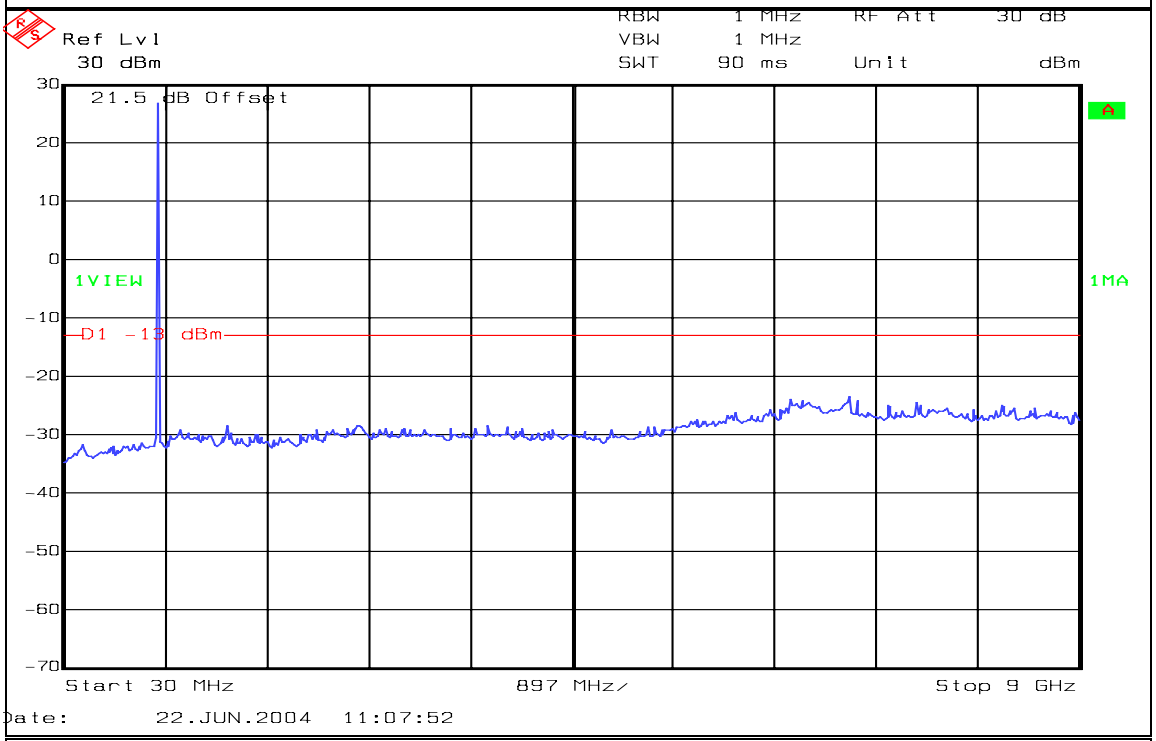
Data Plot **Spurious Emissions at Antenna Terminals**

Page 3 of 6

Job No.:	4L0348	Date:	6/22/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **Analog**
High Channel

Test Data – Spurious Emissions at Antenna Terminals

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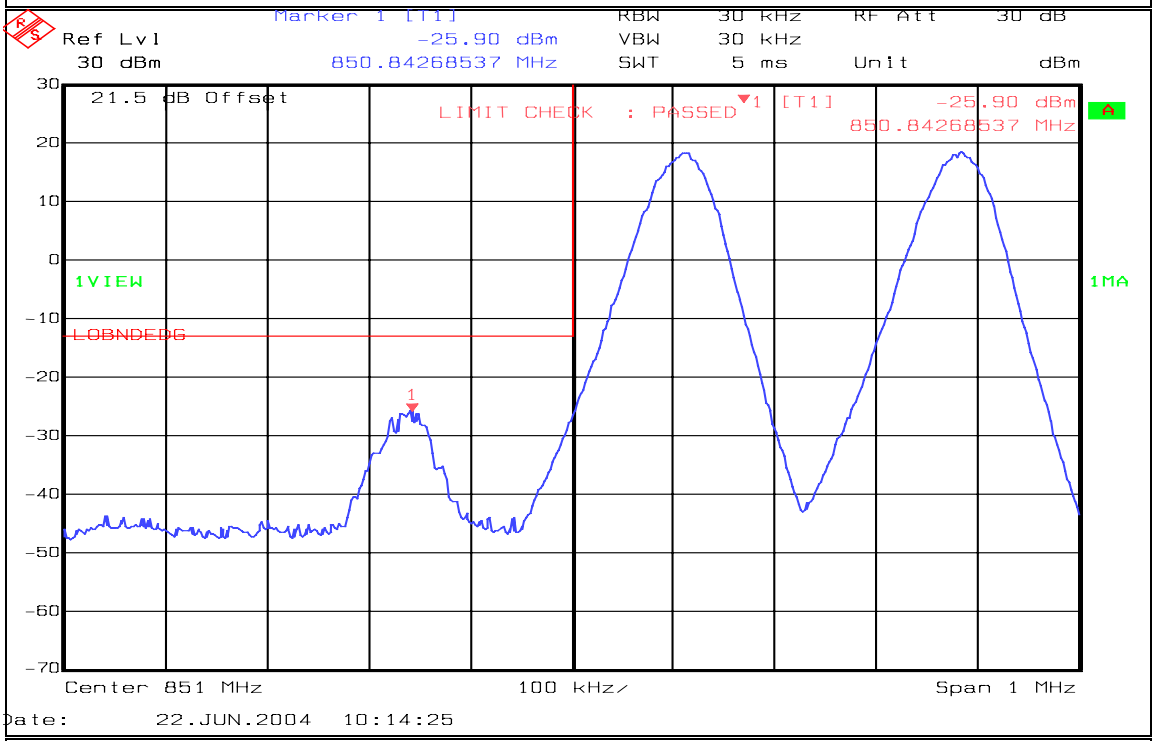
Test Plot: **Spurious Emissions at Antenna Terminals**

Page 4 of 6

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **iDEN**
17 dBm per carrier - 20 dBm Composite

Test Data – Spurious Emissions at Antenna Terminals

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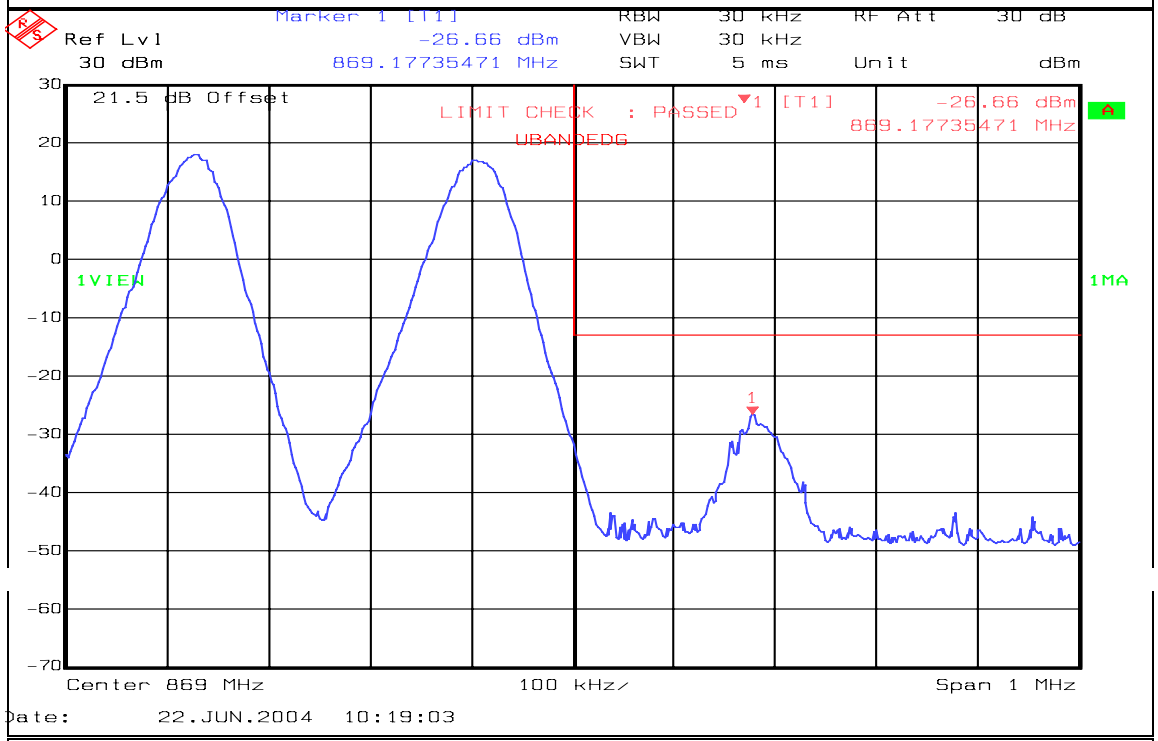
Test Plot: **Spurious Emissions at Antenna Terminals**

Page 5 of 6

Job No.:	4L0348	Date:	5/26/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **iDEN**
17 dBm per carrier - 20 dBm Composite

Test Data – Spurious Emissions at Antenna Terminals Low Channel

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Nemko Dallas, Inc.

Data Plot — **Spurious Emissions at Antenna Terminals**

Page 1 of 6 — Complete: X — Preliminary:

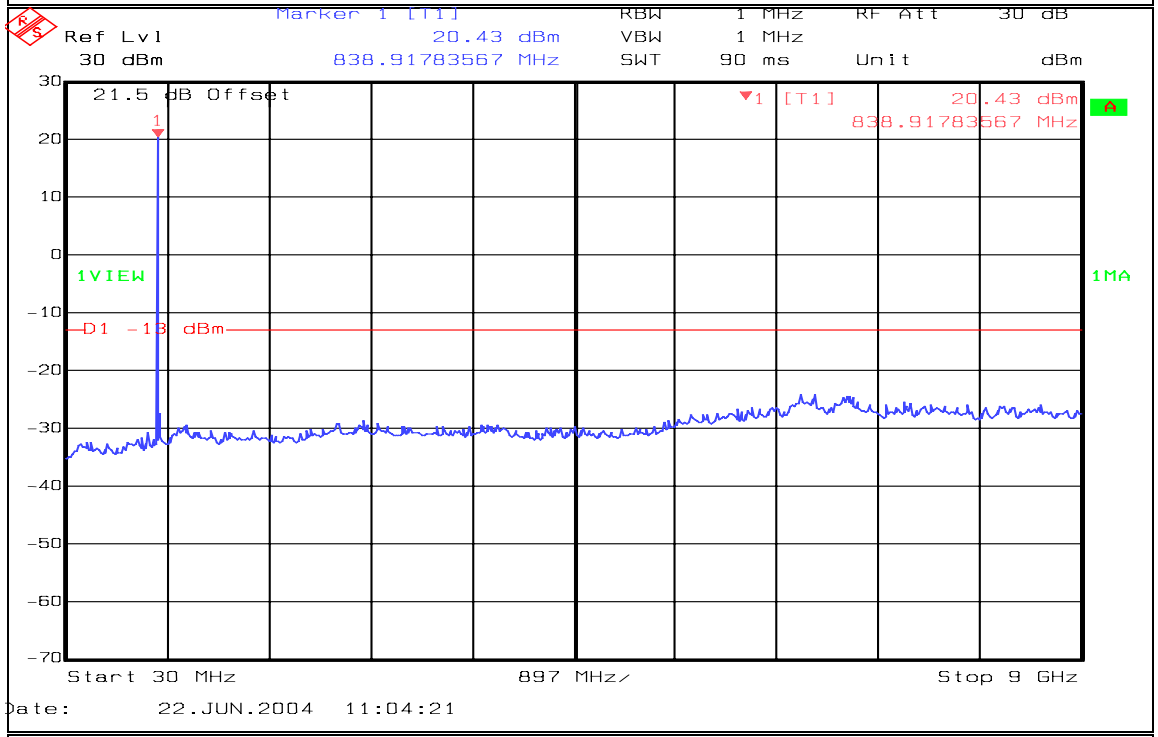
Job No.:	4L0348	Date:	6/22/2004		
Specification:	PT90	Temperature(°C):	22		
Tested By:	David Light	Relative Humidity(%):	40		
E.U.T.:	DUAL BAND AMP				
Configuration:	TX FULL POWER				
Sample Number:	1				
Location:	Lab 1	RBW:	Refer to plots	Measurement Distance:	NA m
Detector Type:	Peak	VBW:	Refer to plots		

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	#N/A
Filter:		Cable #2:	
Receiver:	1036	Cable #3:	
Attenuator #1	1478	Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:

Measurement Uncertainty: +/-1.7 dB



Notes: **iDEN**
Low channel

Test Data – Spurious Emissions at Antenna Terminals – Mid Channel

Dallas Headquarters:
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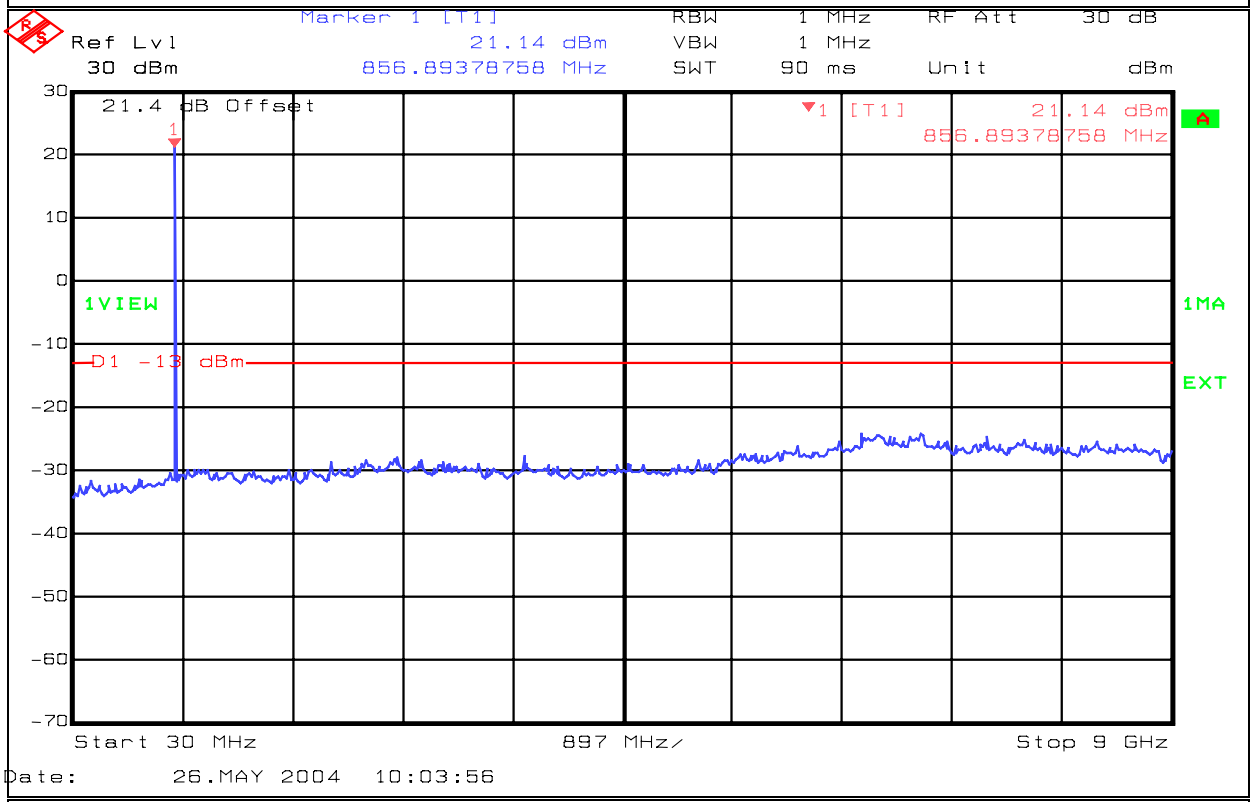
Nemko Dallas, Inc.

Test Plot: **Spurious Emissions at Antenna Terminals**

Page 6 of 6

Job No.: 4L0348 Date: 5/26/2004
Specification: PT90 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DUAL BAND AMP
Configuration: TX FULL POWER



Notes: **iDEN**

Test Data – Spurious Emissions at Antenna Terminals – High Channel

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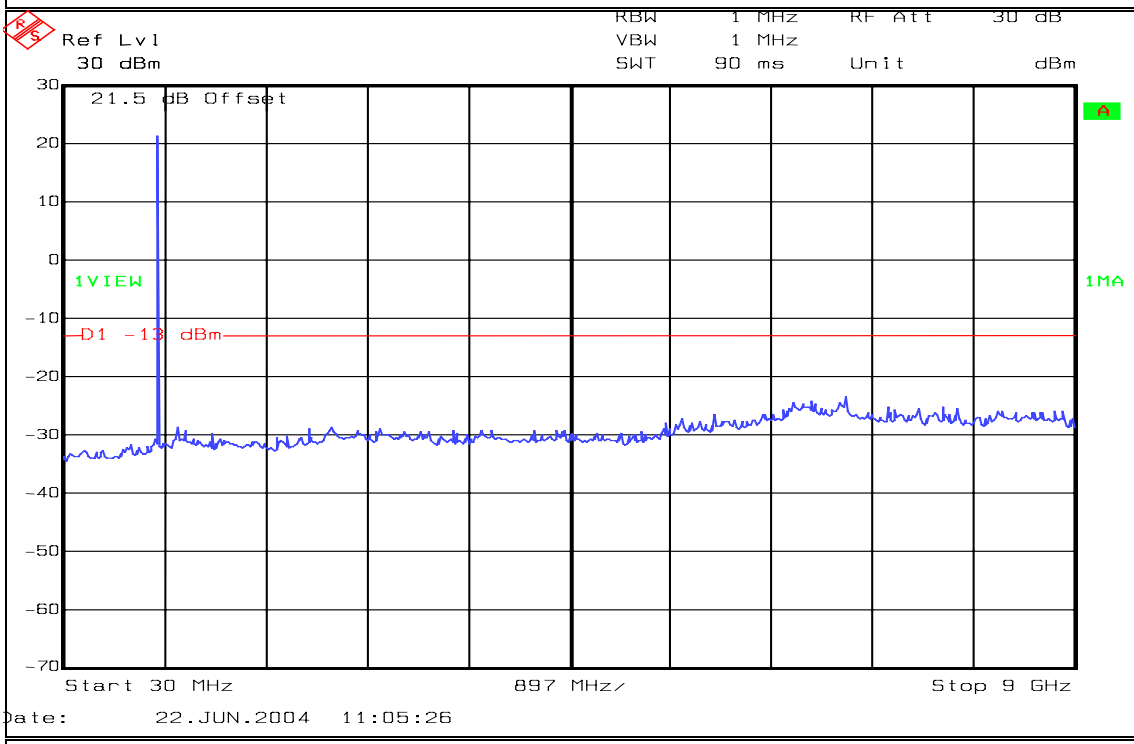
Nemko Dallas, Inc.

Data Plot — **Spurious Emissions at Antenna Terminals**

Page 2 of 6

Job No.:	4L0348	Date:	6/22/2004
Specification:	PT90	Temperature(°C):	22
Tested By:	David Light	Relative Humidity(%)	40
E.U.T.:	DUAL BAND AMP		
Configuration:	TX FULL POWER		



Notes: **iDEN**
High channel

Section 6. Field Strength of Spurious Emissions

NAME OF TEST: Field Strength of Spurious Emissions	PARA. NO.: 2.993
TESTED BY: David Light	DATE:5/26/04

Test Results: Complies.

Test Data: There were no emissions detected above the noise floor, which was more than 20 dB below the specification limit of -13 dBm.

The device was tested at 3 frequencies, Low, Mid and High

Note: See page A5 for applicable limit.

Equipment Used: 1464-1484-1485-1016-1304

Measurement Uncertainty: +/-1.7 dB

Temperature: 20 °C

Relative Humidity: 40 %

Photographs of Test Setup

Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 2.995
TESTED BY: David Light	DATE:5/27/04

Test Results: Complies.

Measurement Data: See attached tables.

Test Data – Frequency Stability

Nemko Dallas, Inc.

Dallas Headquarters:
802 N. Kealy
Lewisville, TX 75057
Tel: (972) 436-9600
Fax: (972) 436-2667

Frequency Stability

Page 1 of 1

Job No.: 4L0347 Date: 5/27/2004
Specification: PT24 Temperature(°C): 20
Tested By: David Light Relative Humidity(%) 45
E.U.T.: Dual Band Amp
Configuration: TX CENTER BAND
Sample Number: 1

Test Equipment Used

Antenna: Directional Coupler:
Pre-Amp: Cable #1: 1042
Filter: Cable #2:
Receiver: 1026
Attenuator #1 1064
Attenuator #2:

Measurement Uncertainty: $1x10^{-17}$ppm **Standard Test Frequency 860.000000 MHz**

Temp (°C)	Measured Frequency (MHz)	Rho	Test Voltage	Freqeuncy Error (Hz)	Limit (+/-Hz)	Error (ppm)	Comment
20	860.000000		-48	0	860.0	0.0	
20	860.000000		-56.2	0	860.0	0.0	
20	860.000000		-40.8	0	860.0	0.0	
50	860.000000		-48	0	860.0	0.0	
40	860.000000		-48	0	860.0	0.0	
30	860.000000		-48	0	860.0	0.0	
10	860.000000		-48	0	860.0	0.0	
0	860.000000		-48	0	860.0	0.0	
-10	860.000000		-48	0	860.0	0.0	
-20	860.000000		-48	0	860.0	0.0	
-30	860.000000		-48	0	860.0	0.0	

Notes:

Section 8. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	03/26/04	03/26/05
1042	CABLE, 4M	STORM PR90-010-144	N/A	09/02/03	09/01/04
1064	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	02/11/03	02/11/05
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	07/24/03	07/23/04
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	07/24/03	07/23/04
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	09/22/03	09/22/05
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	10/27/03	10/26/04
283	Environmental Chamber with controller # 1189006	ENVIROTRONICS SH27 & 2030-22844	129010083	05/06/04	05/06/05

ANNEX A - TEST METHODOLOGIES

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).

Test Method: TIA/EIA-603-1992, Section 2.2.12

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

NAME OF TEST: Spurious Emissions at Antenna Terminals PARA. NO.: 2.991

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.

NAME OF TEST: Occupied Bandwidth **PARA. NO.: 2.989**

Minimum Standard: Para. No. 90.210, see table 1 below for applicable mask.

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

NAME OF TEST: Field Strength of Spurious **PARA. NO.: 2.993**

Minimum Standard: Para. No. 90.210, see table 1 for applicable mask.

Test Method: TIA/EIA-603-1992, Section 2.2.12

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

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

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

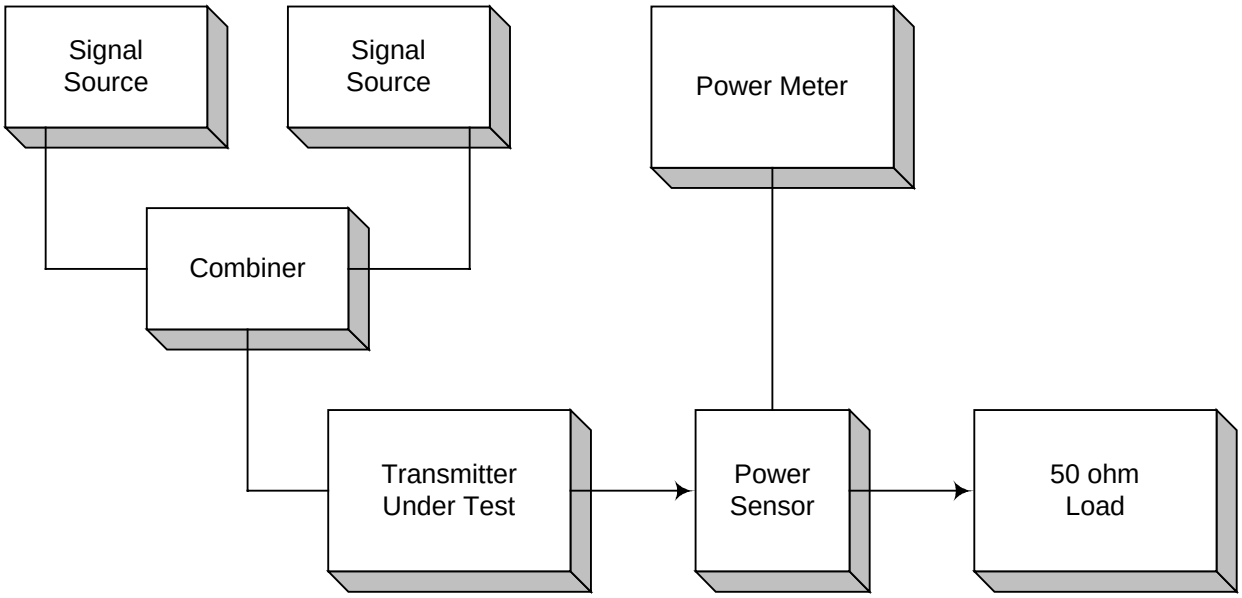
Minimum Standard: Para. No. 990.213. The transmitter carrier frequency shall remain within the assigned frequency below in ppm.

Table 2

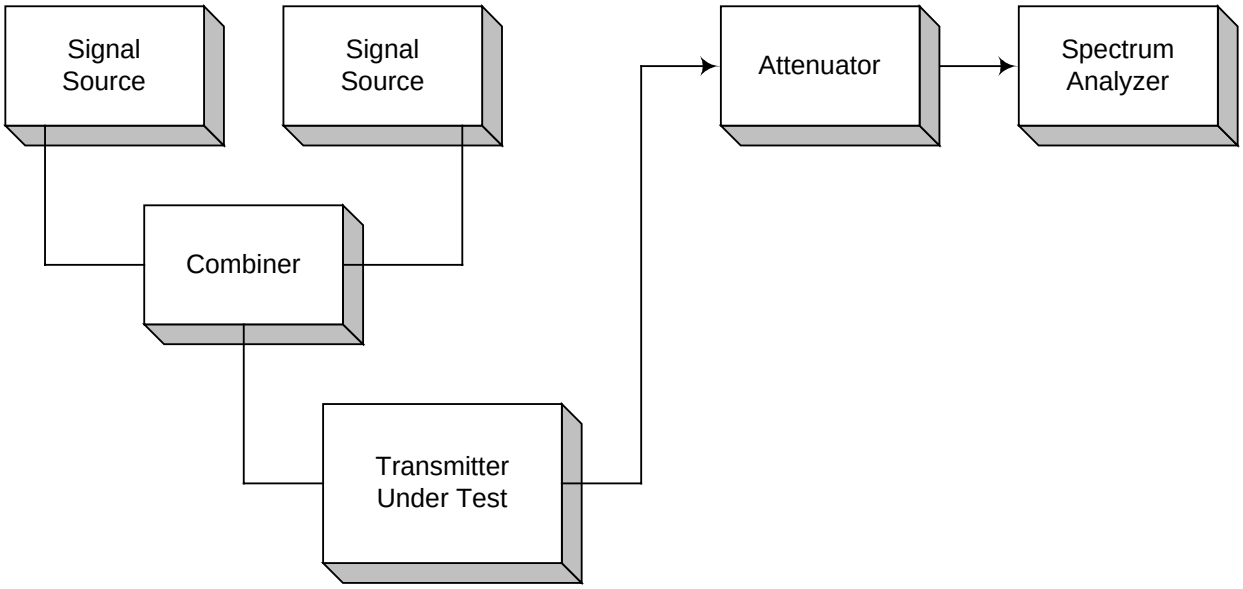
Frequency Band (MHz)	Fixed And Base Stations	Mobile Stations	
		> 2 Watts o/p pwr	< 2 Watts o/p pwr
Below 25	100	100	200
25 - 50	20	20	50
72 - 76	5	-	50
150 - 174	5	5	5
220 - 222	0.1	1.5	1.5
421 - 512	2.5	5	5
806 - 821	1.5	2.5	2.5
821 - 824	1.0	1.5	15
851 - 866	1.5	2.5	2.5
866 - 869	1.0	1.5	1.5
869 - 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	-	-	-

ANNEX B - TEST DIAGRAMS

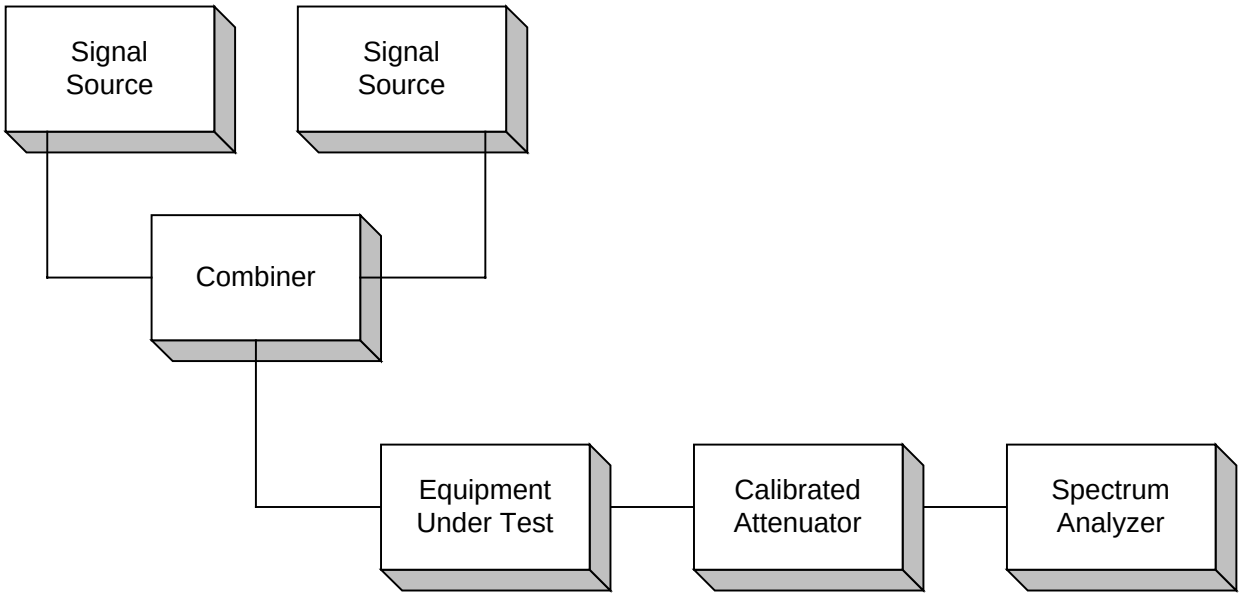
Para. No. 2.985 - R.F. Power Output



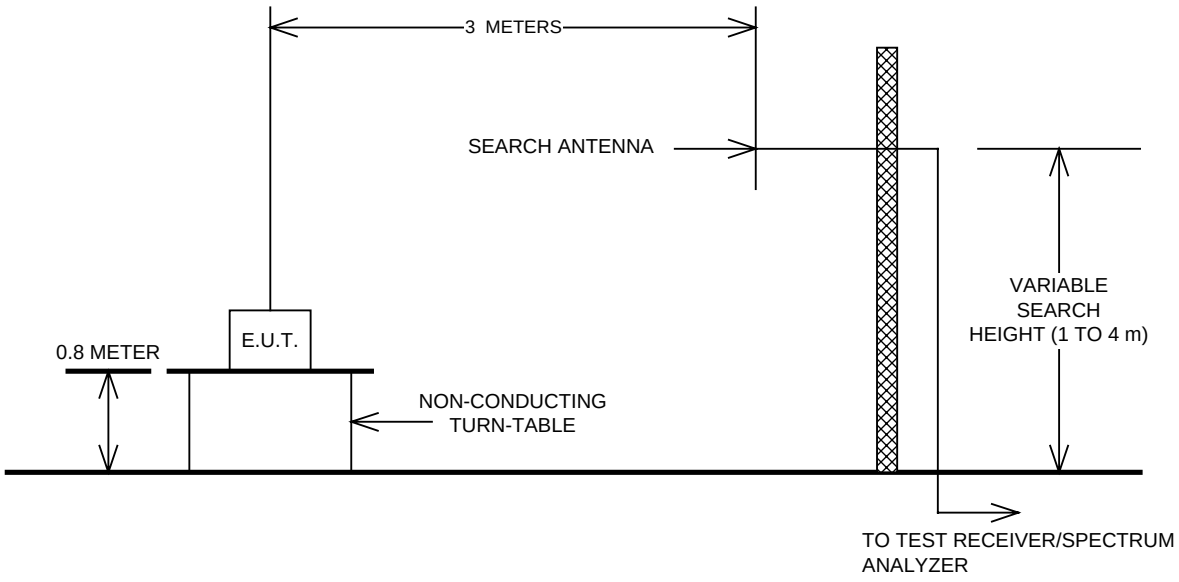
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 - Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability