

Nemko Test Report No.:

4L0134RUS1

Applicant:

Communication Components, Inc.
89 Leuning Street
Second Floor
Hackensack, NJ 07606

Equipment Under Test:

DAB-1819-125

In Accordance With:

FCC Part 24, Subpart E
Broadband PCS Amplifiers

Tested By:

Nemko Dallas Inc.
802 N. Kealy
Lewisville, Texas 75057-3136

Authorized By:



Tom Tidwell, Frontline Group Manager

Date:

3/22/04

Total Number of Pages:

37

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EQUIPMENT: DAB-1819-125**Section 1. Summary of Test Results**

Manufacturer: Communication Components

Model No.: DAB-1819-125

Serial No.: E005730

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 24, Subpart E.



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**

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Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC.	RESULT
RF Power Output	24.232	100W	Complies
Occupied Bandwidth	24.238	Input/Output	Complies
Spurious Emissions at Antenna Terminals	24.238(a)	-13 dBm	Complies
Field Strength of Spurious Emissions	24.238(a)	-13 dBm E.I.R.P.	Complies
Frequency Stability	24.235		NA

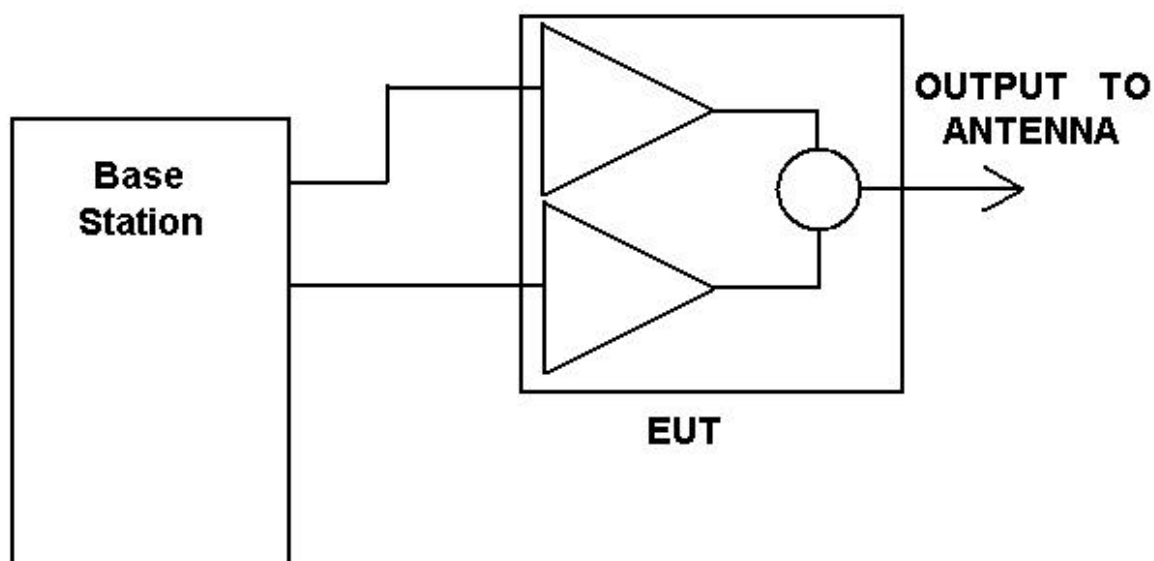
Measurement uncertainty for each test configuration is expressed to 95% probability.

Section 2. General Equipment Specification

Supply Voltage Input:		120 VAC		
Frequency Bands:	Downlink:	☒	Block A:	1930 – 1945 MHz
		☒	Block D	1945 – 1950 MHz
		☒	Block B:	1950 – 1965 MHz
		☒	Block E	1965 – 1970 MHz
		☒	Block F :	1970 – 1975 MHz
		☒	Block C	1975 – 1990 MHz
Frequency Bands:	Uplink:	☐	Block A	1850 – 1865 MHz
		☐	Block B:	1865 – 1870 MHz
		☐	Block C	1870 – 1885 MHz
		☐	Block D	1885 – 1890 MHz
		☐	Block E:	1890 – 1895 MHz
		☐	Block F :	1895 – 1910 MHz
Type of Modulation and Designator:		CDMA (F9W)	GSM (GXW)	EDGE (G7W)
		☐	☒	☒
Output Impedance:		50 ohms		
RF Output (Rated):	Uplink	Per channel:	NA	W
		Total:	NA	W
RF Output (Rated):	Downlink	Per channel:	62.5	W
		Total:	125	W
Power output needs to be lowered to 33.2 dBm at 1930.2 and 1989.8 MHz (Bandedges) to achieve compliance when using GSM or EDGE modulation.				
Frequency Translation:		F1-F1	F1-F2	N/A
		☒	☐	☐
Band Selection:		Software	Duplexer	Fullband
		☐	☐	☒

Description of EUT

The device is a base station amplifier operating in the PCS band utilizing GSM and GSM EDGE technology. Each input outputs 62.5 Watts single carrier only and input into a combiner prior to output. The device is rated at 125 Watts combined power.

System Diagram

EQUIPMENT: DAB-1819-125

Section 3. RF Power Output

NAME OF TEST: RF Power Output	PARA. NO.: 2.1046
TESTED BY: David Light	DATE: 3/12/04

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

	Modulation Type	Per Channel Output Power (dBm)	Composite Output Power (dBm)
Uplink	GSM	NA	NA
Downlink	GSM	62.5	125
Uplink	GSM EDGE	NA	NA
Downlink	GSM EDGE	62.5	125

Note – The device was tested at 125 Watts max power to compensate for any insertion loss prior to antenna input.

Reduced Power measurements at Band Edges

	Modulation Type	Single Channel Output Power (1930.2MHz)	Single Channel Output Power (1989.8MHz)	
Downlink	EDGE	33.2dBm	33.2dBm	
Downlink	GSM	33.2dBm	33.2dBm	

Equipment Used: 1464-1064-1055-1626**Measurement Uncertainty:** +/- 1.7 dB**Temperature:** 22 ?C**Relative Humidity:** 40%

EQUIPMENT: DAB-1819-125

Section 4. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth	PARA. NO.: 2.1049
TESTED BY: David Light	DATE:3/12/04

Test Results: Complies.

Test Data: See attached plot(s).

EQUIPMENT: DAB-1819-125

Test Data – Occupied Bandwidth



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Data Plot

Occupied Bandwidth

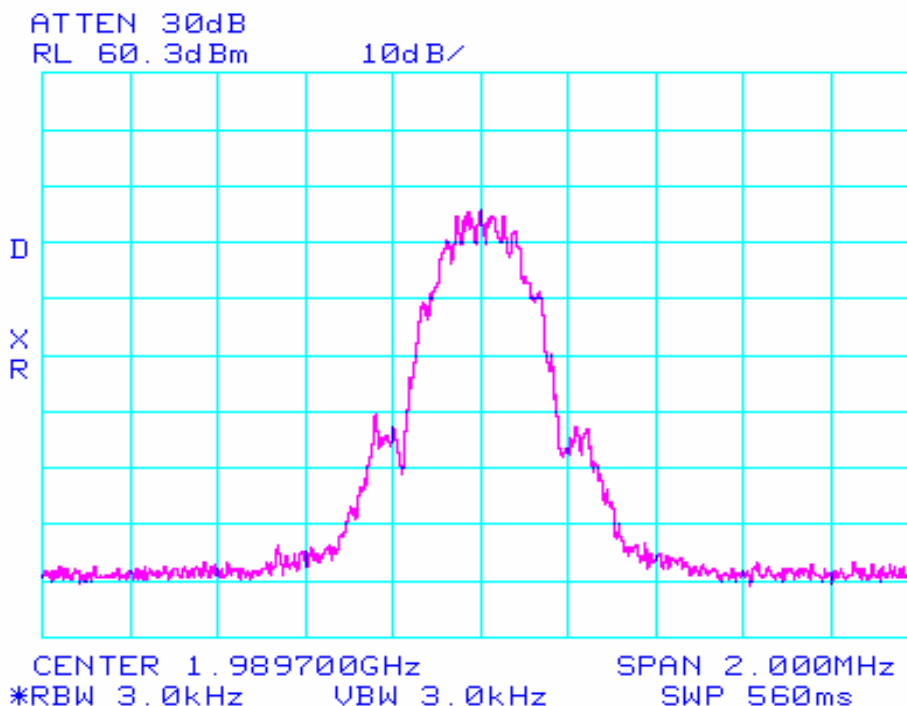
Page 1 of 4

Job No.: 3L0075R Date: 3/12/2004
Specification: PT 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%): 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER
Sample Number: 1
Location: Lab 2 RBW: 3 kHz
Detector Type: Peak VBW: 3 kHz

Complete X
Preliminary: _____Measurement
Distance: NA m

Test Equipment Used

Antenna: _____ Directional Coupler: 1055
Pre-Amp: _____ Cable #1: 1626
Filter: _____ Cable #2: _____
Receiver: 1464 Cable #3: _____
Attenuator #1: 1064 Cable #4: _____
Attenuator #2: _____ Mixer: _____
Additional equipment used: _____
Measurement Uncertainty: +/-1.7 dB



Notes: OUTPUT, GSM EDGE, 62.5 watts

EQUIPMENT: DAB-1819-125

Test Data – Occupied Bandwidth



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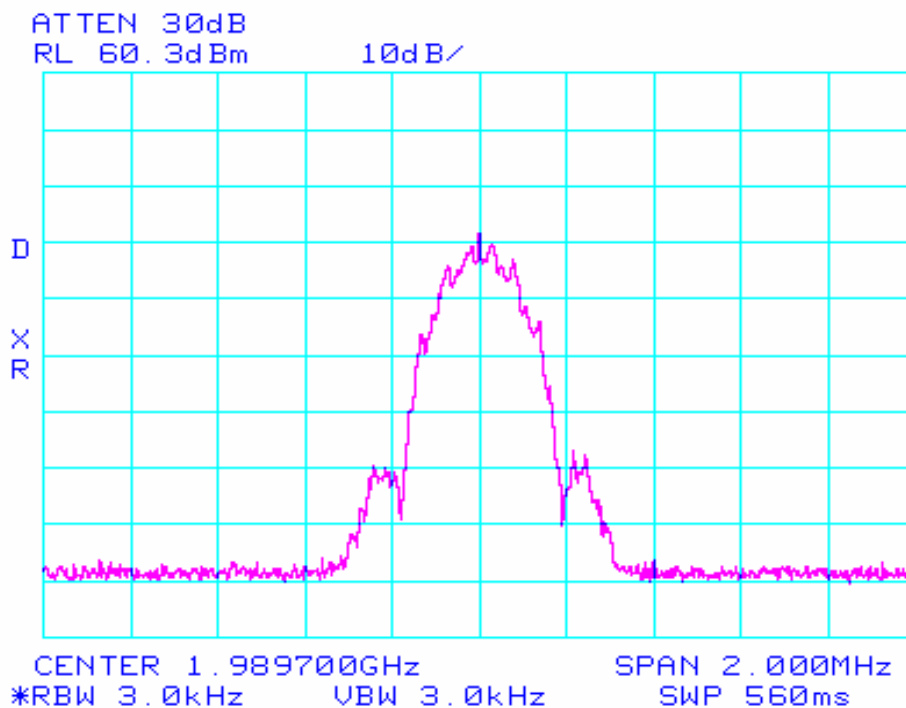
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Data Plot

Occupied Bandwidth

Page 2 of 4

Job No.: 3L0075R Date: 3/12/2004
Specification: PT 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER



Notes: INPUT, GSM EDGE

EQUIPMENT: **DAB-1819-125**

Test Data – Occupied Bandwidth



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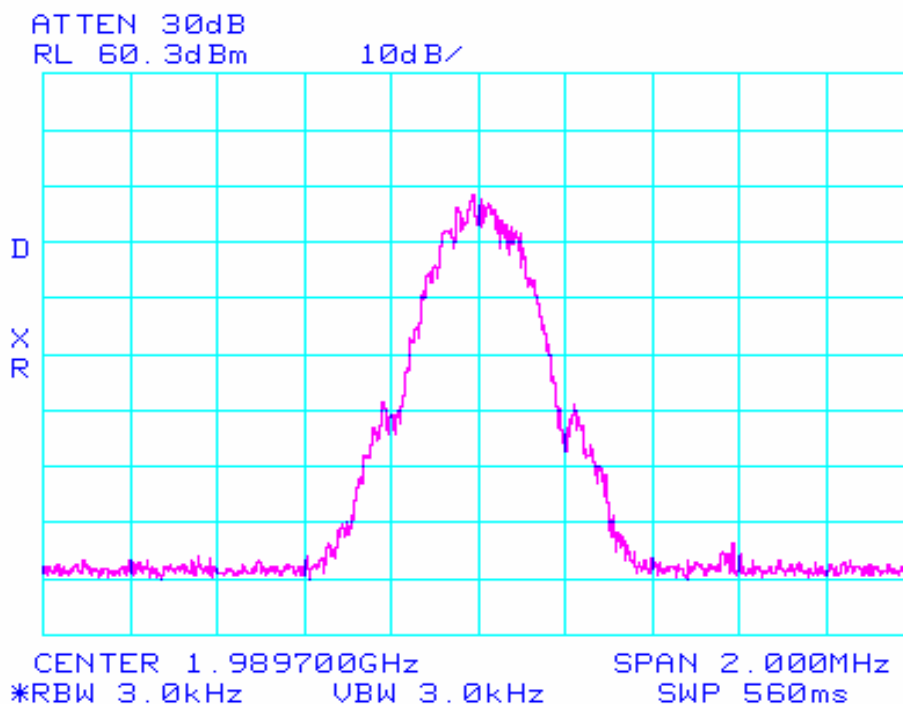
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Data Plot

Occupied Bandwidth

Page 3 of 4

Job No.: 310075R Date: 3/12/2004
Specification: PT 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER



Notes: OUTPUT, GSM, 62.5 watts

EQUIPMENT: **DAB-1819-125**

Test Data – Occupied Bandwidth



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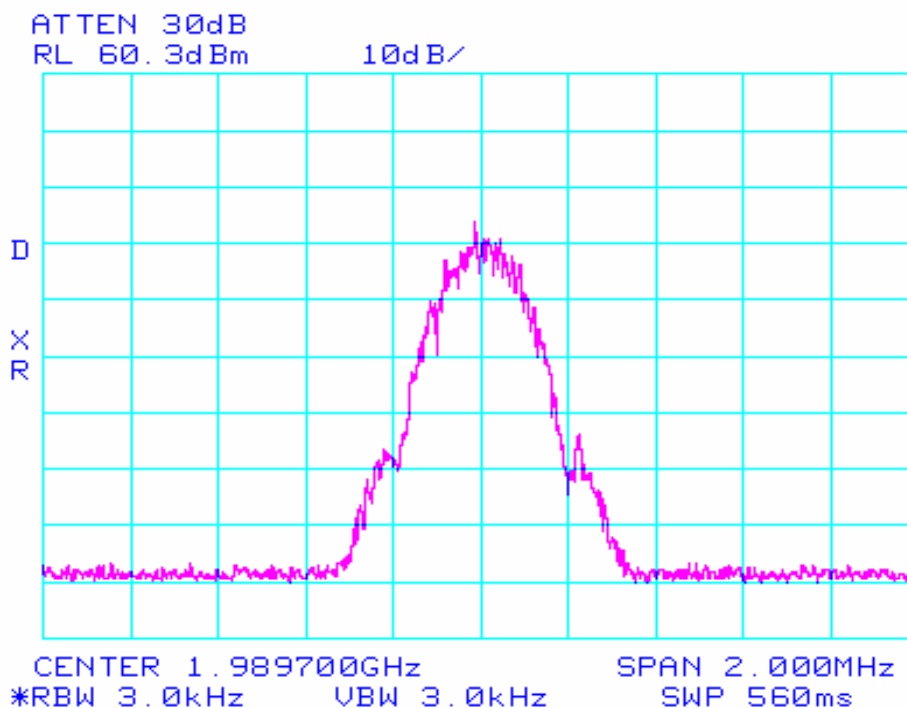
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Test Plot: Occupied Bandwidth

Page 4 of 4

Job No.: 310075R Date: 3/12/2004
Specification: PT 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER



Notes: INPUT, GSM

Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.1051
TESTED BY: David Light	DATE: 3/12/04

Test Results: Complies.

Test Data: See attached plot(s).

EQUIPMENT: DAB-1819-125

Test Data – Spurious Emissions at Antenna Terminals



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Data Plot

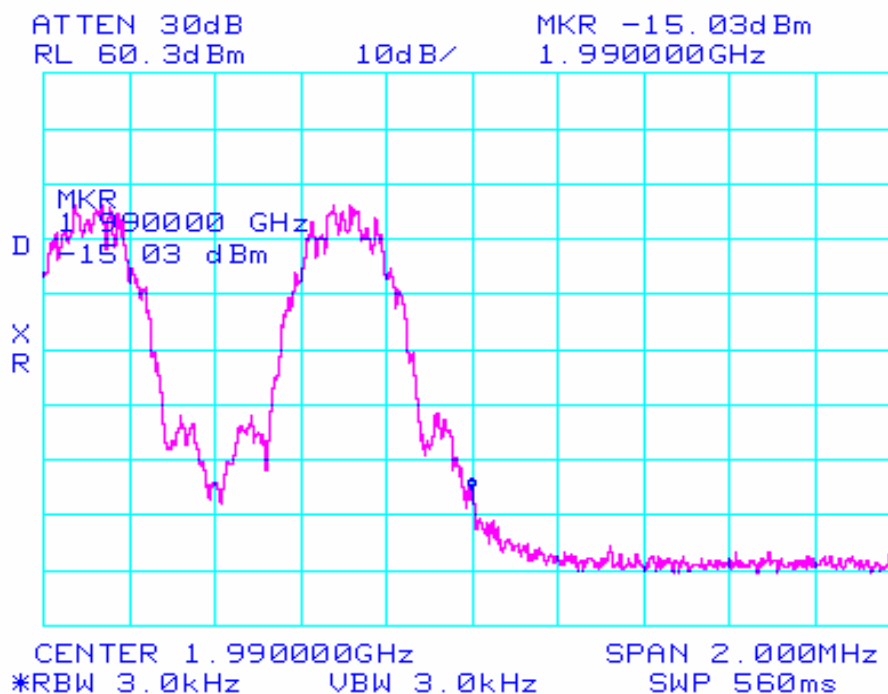
Spurious Emissions at Antenna Terminals

Page 1 of 3

Job No.: 3L0075R Date: 3/12/2004 Complete X
Specification: PT 24 Temperature(°C): 22 Preliminary: _____
Tested By: David Light Relative Humidity(%): 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER
Sample Number: 1
Location: Lab 2 RBW: 3 kHz Measurement
Detector Type: Peak VBW: 3 kHz Distance: NA m

Test Equipment Used

Antenna: _____ Directional Coupler: 1055
Pre-Amp: _____ Cable #1: 1626
Filter: _____ Cable #2: _____
Receiver: 1464 Cable #3: _____
Attenuator #1: 1064 Cable #4: _____
Attenuator #2: _____ Mixer: _____
Additional equipment used: _____
Measurement Uncertainty: +/-1.7 dB



Notes: Tx two carriers, 62.5 W (48 dBm) each, 1889.7 and 1889.1 MHz, GSM EDGE
125 Watts (51 dBm) Composite power

Test Data – Spurious Emissions at Antenna Terminals



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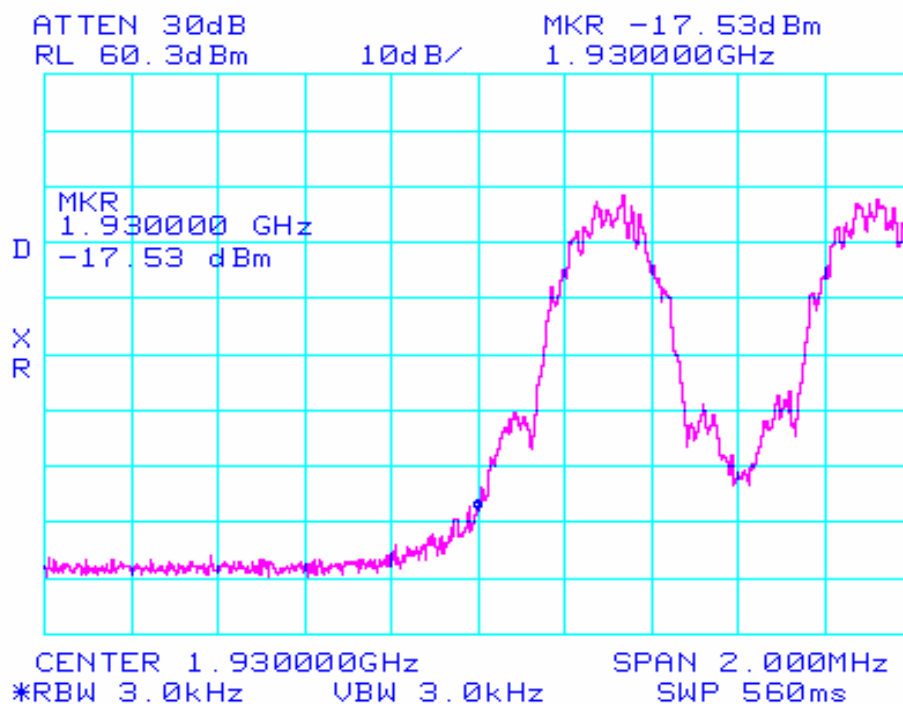
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Data Plot

Spurious Emissions at Antenna Terminals

Page 2 of 3

Job No.: 310075R Date: 3/12/2004
Specification: PT 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER



Notes: Tx two carriers, 62.5 W (48 dBm) each, 1930.3 and 1930.9 MHz, GSM EDGE
125 Watts (51 dBm) Composite power

Test Data – Spurious Emissions at Antenna Terminals



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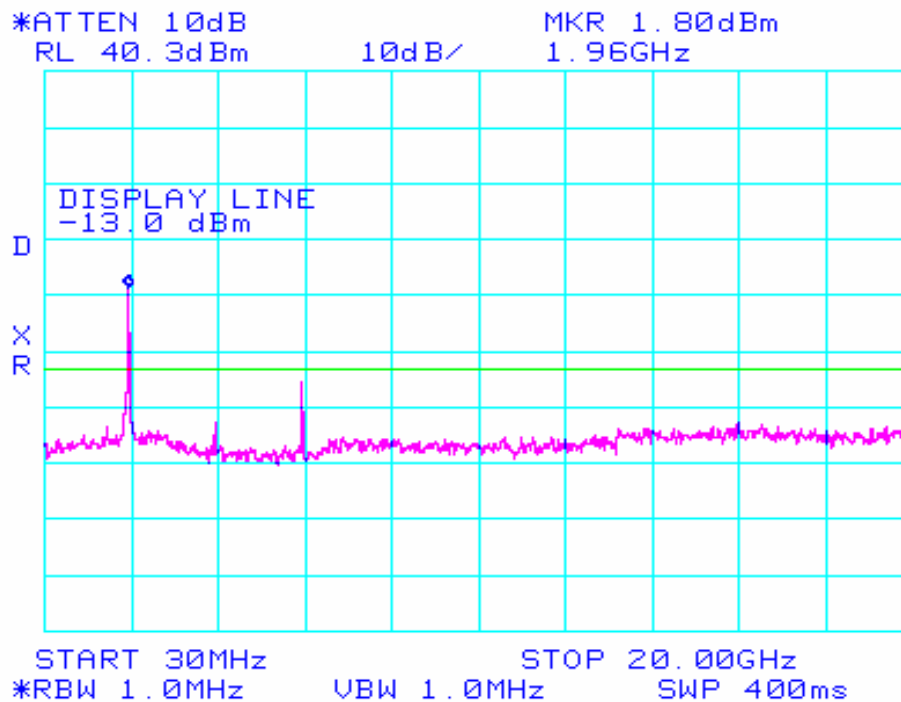
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Data Plot

Spurious Emissions at Antenna Terminals

Page 3 of 3

Job No.: 3L0075R Date: 3/12/2004
Specification: PT 24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER



Notes: Transmit two carriers at 62.5 W each, 125 W composite, GSM EDGE
Marker indicates carriers (NOTCHED)

EQUIPMENT: DAB-1819-125

Test Data – Spurious Emissions at Antenna Terminals



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Data Plot

Spurious Emissions at Antenna Terminals

Page 1 of 4

Job No.: 3L0075R

Date: 3/12/2004

Complete _____

Specification: PT24

Temperature(°C): 22

Preliminary: _____

Tested By: David Light

Relative Humidity(%): 40

E.U.T.: DAC-1819-125

Configuration: TX FULL POWER

Sample Number: 1

Location: Lab 2

RBW: 3 kHz

Measurement

Detector Type: Peak

VBW: 3 kHz

Distance: NA m

Test Equipment Used

Antenna: _____

Directional Coupler: 1055

Pre-Amp: _____

Cable #1: 1626

Filter: _____

Cable #2: _____

Receiver: 1464

Cable #3: _____

Attenuator #1: 1064

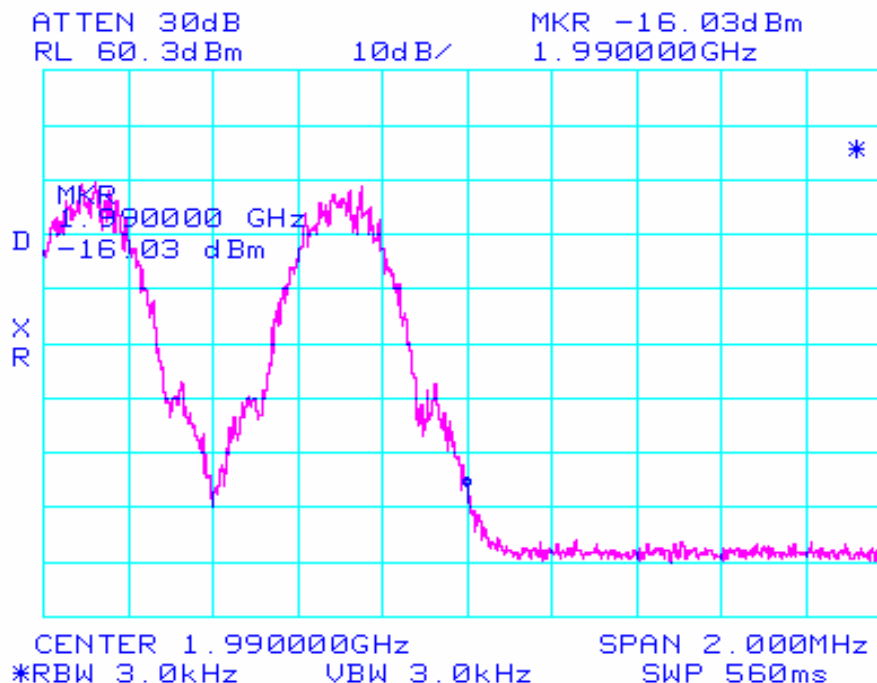
Cable #4: _____

Attenuator #2: _____

Mixer: _____

Additional equipment used: _____

Measurement Uncertainty: +/-1.7 dB

Notes: Tx two carriers, 62.5 W (48 dBm) each, 1989.7 and 1989.1 MHz, GSM
125 Watts (51 dBm) Composite power

Test Data – Spurious Emissions at Antenna Terminals



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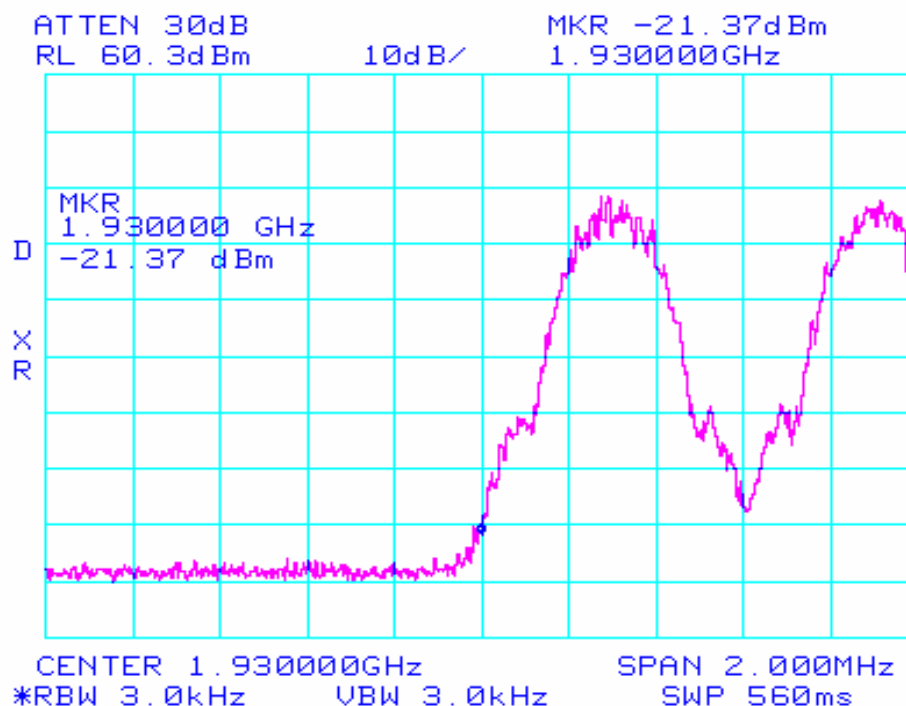
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Data Plot

Spurious Emissions at Antenna Terminals

Page 2 of 4

Job No.: 310075R Date: 3/12/2004
Specification: PT24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER



Notes: Tx two carriers, 62.5 W (48 dBm) each, 1930.3 and 1930.9 MHz, GSM
125 Watts (51 dBm) Composite power

Test Data – Spurious Emissions at Antenna Terminals



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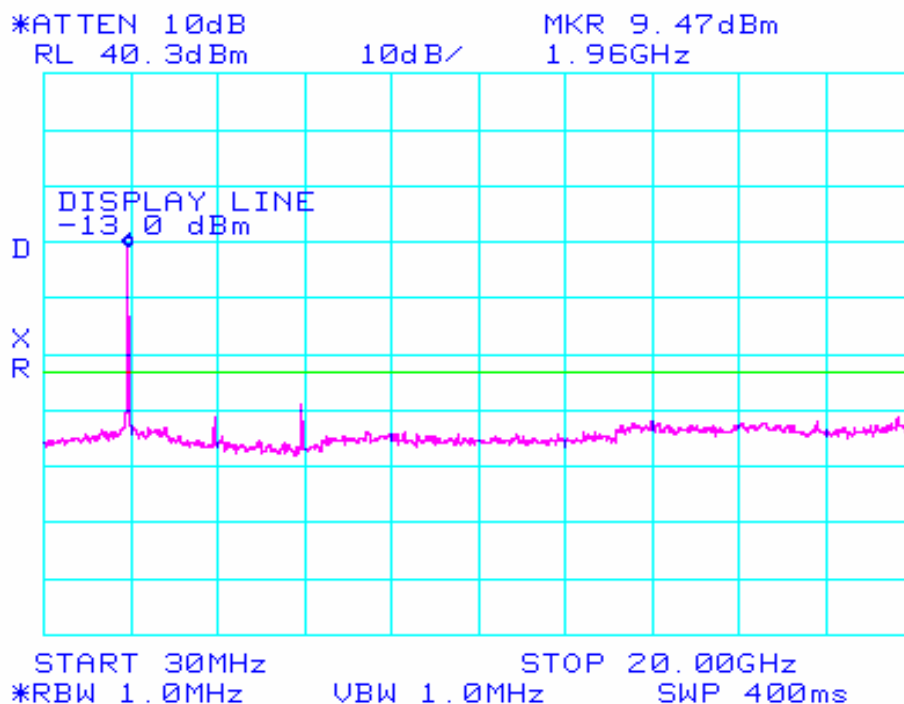
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Data Plot

Spurious Emissions at Antenna Terminals

Page 3 of 4

Job No.: 3L0075R Date: 3/12/2004
Specification: PT24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DAC-1819-125
Configuration: TX FULL POWER



Notes: Transmit two carriers at 62.5 W each, 125 W composite, GSM
Marker indicates carriers (NOTCHED)

EQUIPMENT: DAB-1819-125

Test Data – Band Edge at 1930.2, reduced power - GSM



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Data Plot

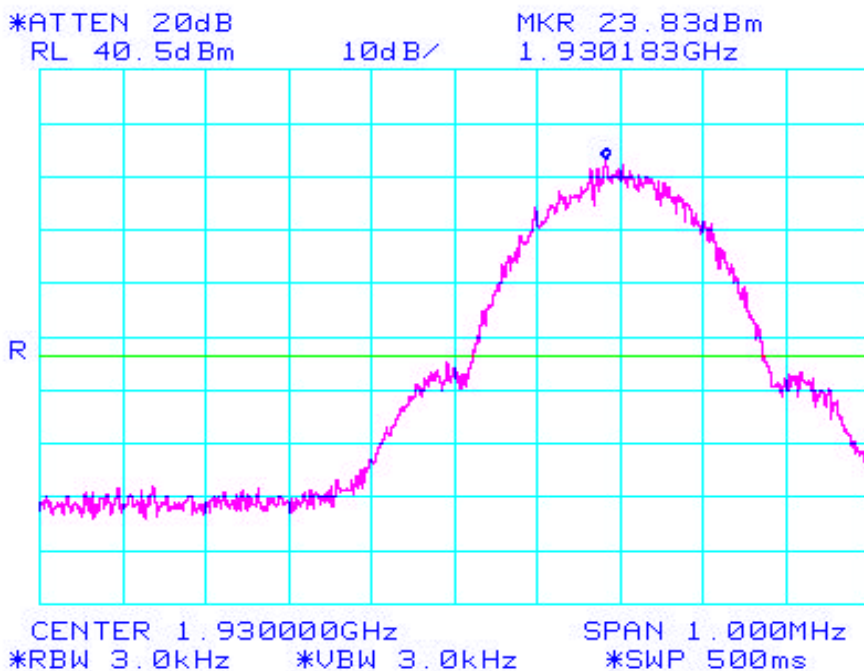
Pag 1 of 4

Spurious Emissions at Antenna Terminals

Job No.:	3L0075R	Date	3/19/200	Comple	X
Specification	PT 24	Temperature(°C)	22	Preliminary	
Tested	Dustin Oaks	Relative	40		
E.U.T.:	DAB-1819-125				
Configuration	TX FULL				
Sample	1				
Location:	Lab	RBW: 3 kHz		Measureme	
Detector	Peak	VBW: 3 kHz		Distance N	m

Test Equipment Used

Antenna		Directional	1055
Pre-		Cable	1626
Filter:		Cable	1987
Receiver	1464	Cable	
Attenuator #1	1064	Cable	
Attenuator #2:		Mixer	
Additional equipment			
Measurement	+/-1.7 dB		



Notes: GSM-Tx single carrier 1930.2 MHz Power Reduced to comply with bandedge

Test Data – Band Edge at 1989.8, reduced power – GSM



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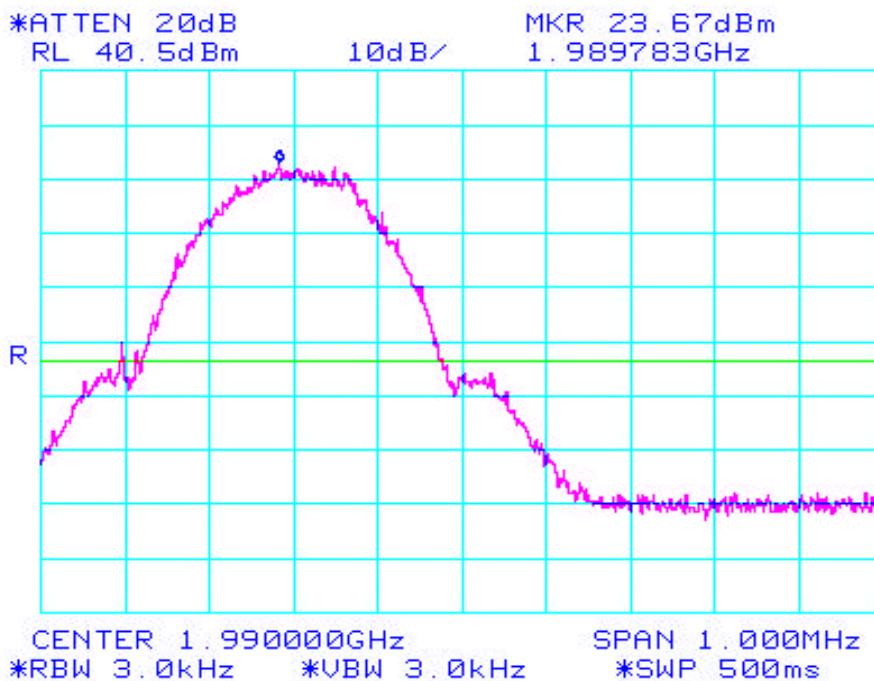
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Data Plot

Pag 2 of 4

Spurious Emissions at Antenna Terminals

Job No.: 3L0075R Date 3/19/2004
Specification PT 24 Temperature(°C) 22
Tested Dustin Oaks Relative 40
E.U.T.: DAB-1819-125
Configuration TX FULL



Notes: GSM-Tx single carrier 1989.8 MHz Power Reduced to comply with bandedge

Test Data – Band Edge at 1930.2, reduced power - EDGE



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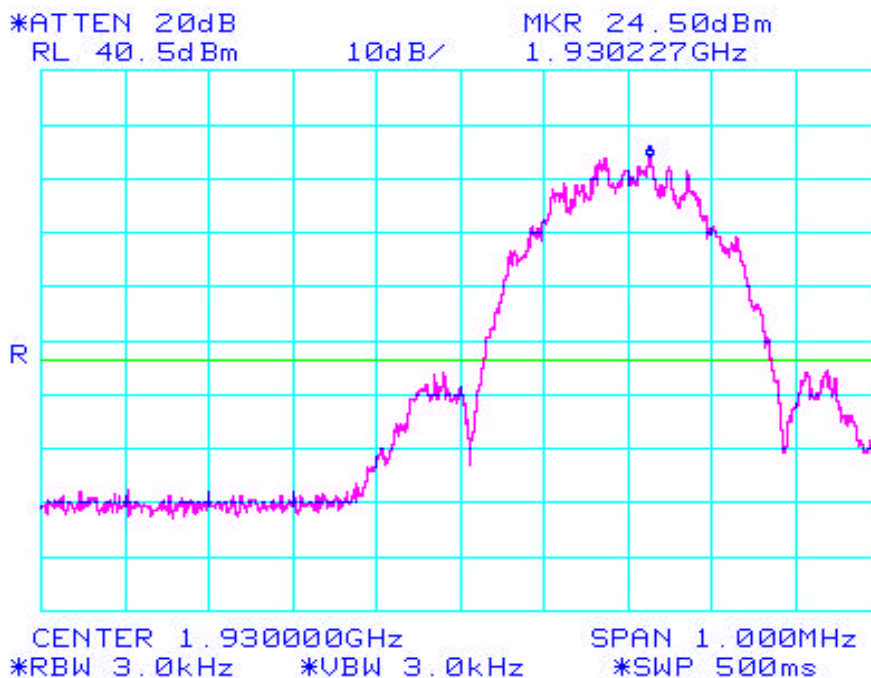
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Data Plot

Page 3 of 4

Spurious Emissions at Antenna Terminals

Job No.: 3L0075R Date 3/19/2004
Specification PT 24 Temperature(°C) 22
Tested Dustin Oaks Relative 40
E.U.T.: DAB-1819-125
Configuration TX FULL



Notes: EDGE-Tx single carrier 1930.2 MHz Power Reduced to comply with bandedge

Test Data – Band Edge at 1989.8, reduced power – EDGE



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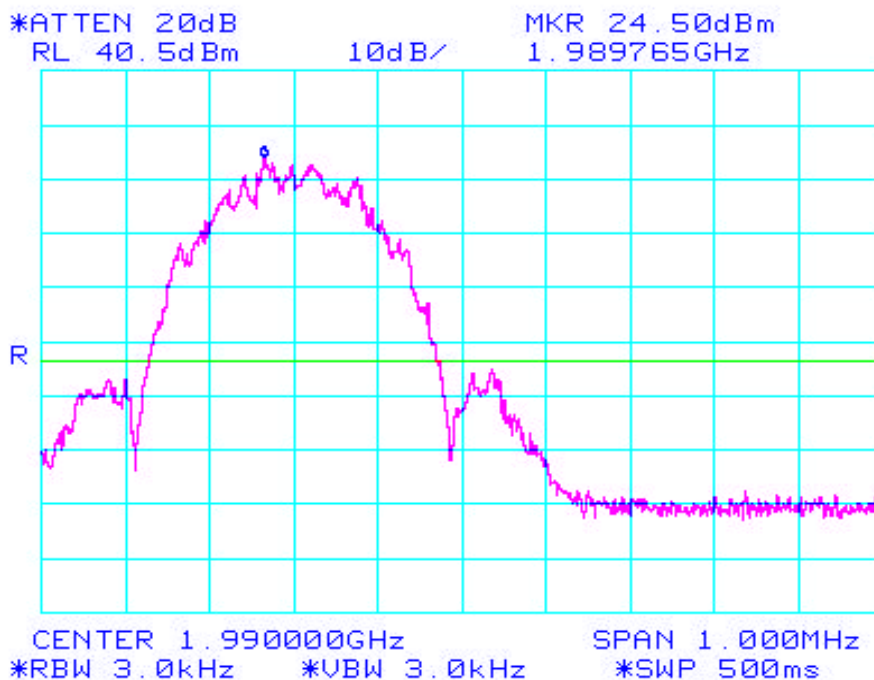
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Test Plot:

Pag 4 of 4

Spurious Emissions at Antenna Terminals

Job No.: 3L0075R Date 3/19/2004
Specification PT 24 Temperature(°C) 22
Tested Dustin Oaks Relative 40
E.U.T.: DAB-1819-125
Configuration TX FULL



Notes: EDGE-Tx single carrier 1989.8 MHz Power Reduced to comply with bandedge

Section 6. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious Emissions	PARA. NO.: 2.1051
TESTED BY: David Light	DATE: 3/12/04

Test Results: Complies.

Test Data: See attached table.

EQUIPMENT: DAB-1819-125

Test Data - Radiated Spurious Emissions



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EIRP Substitution

Page 1 of 1

Job No.: 4L0134R Date: 3/12/04
Specification: PT24 Temperature(°C): 22
Tested By: David Light Relative Humidity(%) 40
E.U.T.: DAB-1819-125
Configuration: Tx FULL POWER CW INTO LOAD
Sample No: 1
Location: AC 3 RBW: 1 MHz
Detector Type: Peak VBW: 1 MHz

Complete X
Preliminary _____

Measurement
Distance: 3 m

Test Equipment Used

Antenna: 1304 Directional Coupler: _____
Pre-Amp: 1016 Cable #1: 1484
Filter: 1059 Cable #2: 1485
Receiver: 1464 Cable #3: _____
Attenuator #1: _____ Cable #4: _____
Attenuator #2: _____ Mixer: _____
Additional equipment used: _____
Measurement Uncertainty: +/-1.7 dB

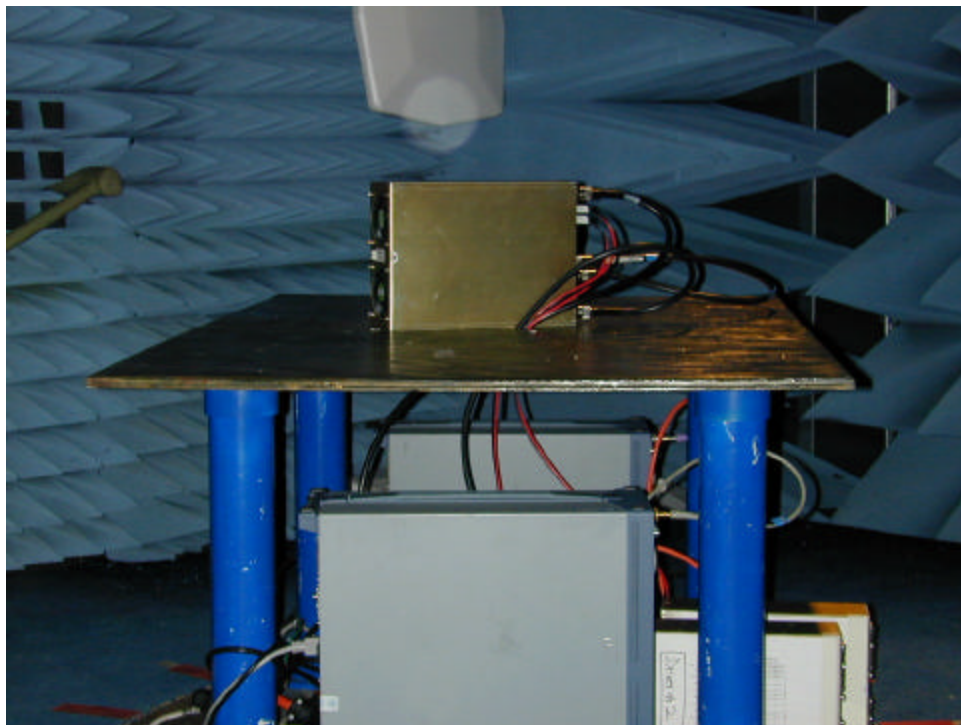
Frequency (MHz)	Meter Reading (dBm)	Substitution Level (dBm)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Polarity	Comments
5880	-33.0	-24.8		31.6	9.3	-24.8	-13.0	-11.7667	V	
7840	-42.7	-33.8		32.9	9.2	-33.8	-13.0	-20.7667	V	
9800	-56.3	-49.0		34.5	10.3	-49.0	-13.0	-35.9667	V	
5880	-38.7	-32.5		31.6	9.3	-32.5	-13.0	-19.4667	H	
7840	-39.3	-30.7		32.9	9.2	-30.7	-13.0	-17.7000	H	
9800	-57.8	-49.0		34.5	10.3	-49.0	-13.0	-35.9667	H	

Notes: Tx full power at 1660 and 1660.3 MHz

No emissions were detected other than those reported. Noise floor was at least 20 dB below spec limit

EQUIPMENT: **DAB-1819-125**

Photographs of Test Setup



Section 7. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	02/11/03	02/11/05
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	10/27/03	10/26/04
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	09/22/03	09/22/05
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
1055	DUAL DIRECTIONAL COUPLER	NARDA 3022	73393	CBU	N/A
1626	CABLE, 5 ft	MEGAPHASE 10311 1GVT4	N/A	CBU	N/A
1064	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A

ANNEX A - TEST DETAILS

NAME OF TEST: RF Power Output

PARA. NO.: 2.1046

Minimum Standard: Para. No.24.232. Base stations are limited to 1640 watts peak E.I.R.P. with an antenna height up to 300 meters HAAT. In no case may the peak output power of a base station transmitter exceed 100 watts.

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.

NAME OF TEST: Occupied Bandwidth**PARA. NO.: 2.1047**

Minimum Standard: Para. No. 24.238(b). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB.

Method Of Measurement:CDMA

Spectrum analyzer settings:

RBW: 30 kHz

VBW: ? RBW

Span: 5 MHz

Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

GSM

RBW: 3 kHz

VBW: ? RBW

Span: 2 MHz

Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

NADC

RBW: 1 kHz

VBW: ? RBW

Span: 1 MHz

Sweep: Auto

Mask: Set markers to -26 dB from peak of CW.

**NAME OF TEST: Spurious Emission at Antenna
Terminals****PARA. NO.: 2.1051****Minimum Standard:**

licensee's

Para. No.24.238(a). On any frequency outside a

frequency block, the power of any emission shall be attenuated
below the transmitter power by at least $43 + 10 \log (P)$ dB.

Method Of Measurement:

Spectrum analyzer settings:

CDMA

RBW: 1 MHz (> 1 MHz from Band Edge)

RBW: 30 kHz (< 1MHz from Band Edge)

VBW: ? RBW

Sweep: Auto

Video Avg: 6 Sweeps

GSM

RBW: 1 MHz (> 1 MHz from Band Edge)

RBW: 3 kHz (< 1 MHz from Band Edge)

VBW: ? RBW

Sweep: Auto

Video Avg: Disabled

NADC

RBW: 1 MHz (> 1 MHz from Band Edge)

RBW: 3 kHz (< 1 MHz from Band Edge)

VBW: ? RBW

Sweep: Auto

Video Avg: Disabled

To demonstrate compliance at band edges the frequency of the input signal is set to the lowest and highest assigned channel and the center frequency of the spectrum analyzer is set to the upper and lower edges of the appropriate frequency block.

NAME OF TEST: Field Strength of Spurious Radiation

PARA. NO.: 2.1053

Minimum Standard: Para. No.24.238(a). On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power by at least $43 + 10 \log (P)$ dB.

Test Method:

The antenna substitution method was used. This method is described in EIA/TIA 603B.

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

Minimum Standard: Para. No. 24.235. The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Method Of Measurement:Frequency Stability With Voltage Variation

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

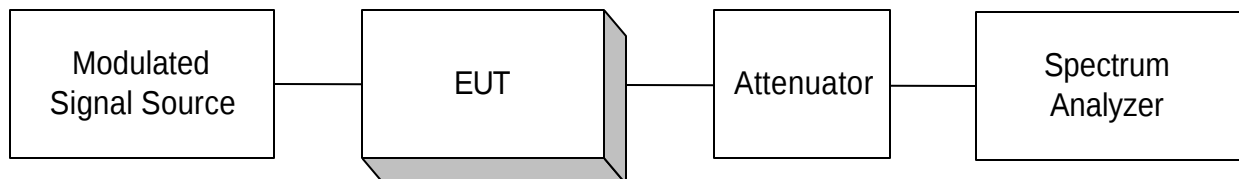
Frequency Stability With Temperature Variation

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

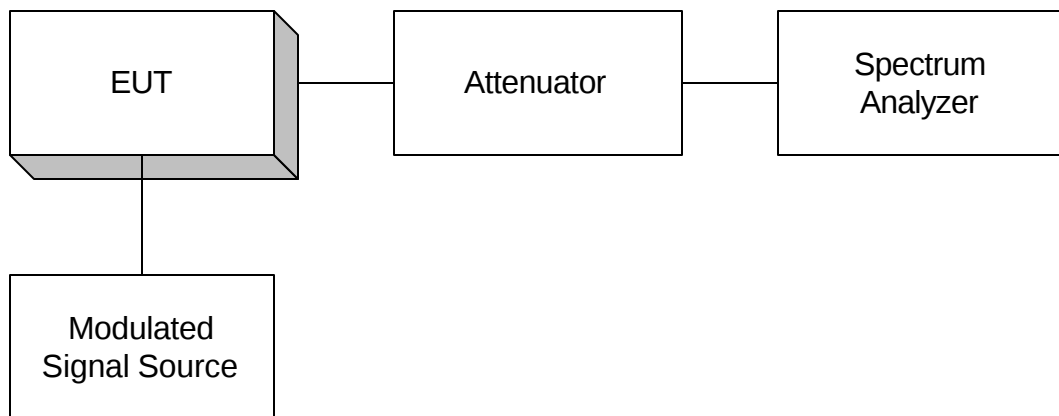
ANNEX B - TEST DIAGRAMS

EQUIPMENT: DAB-1819-125

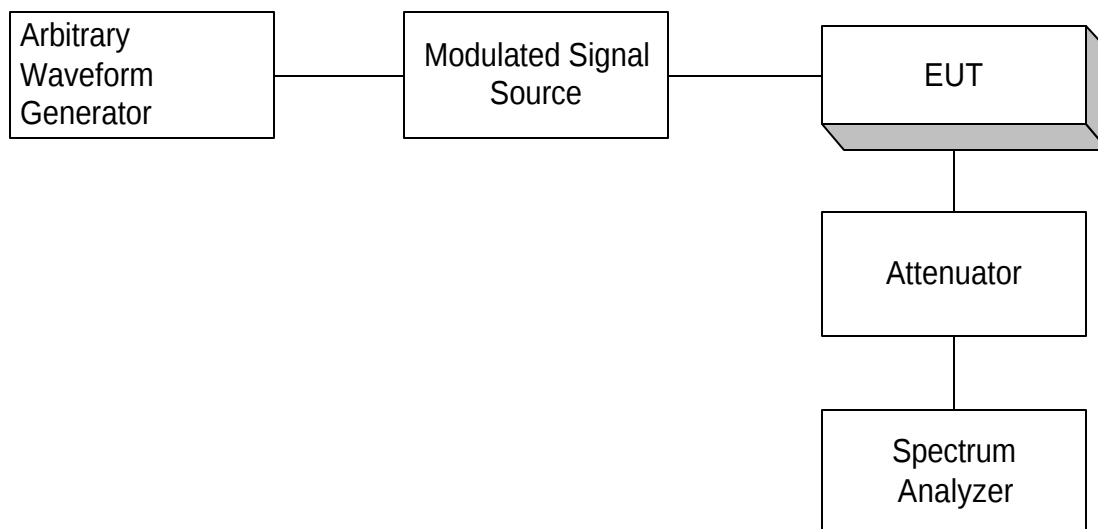
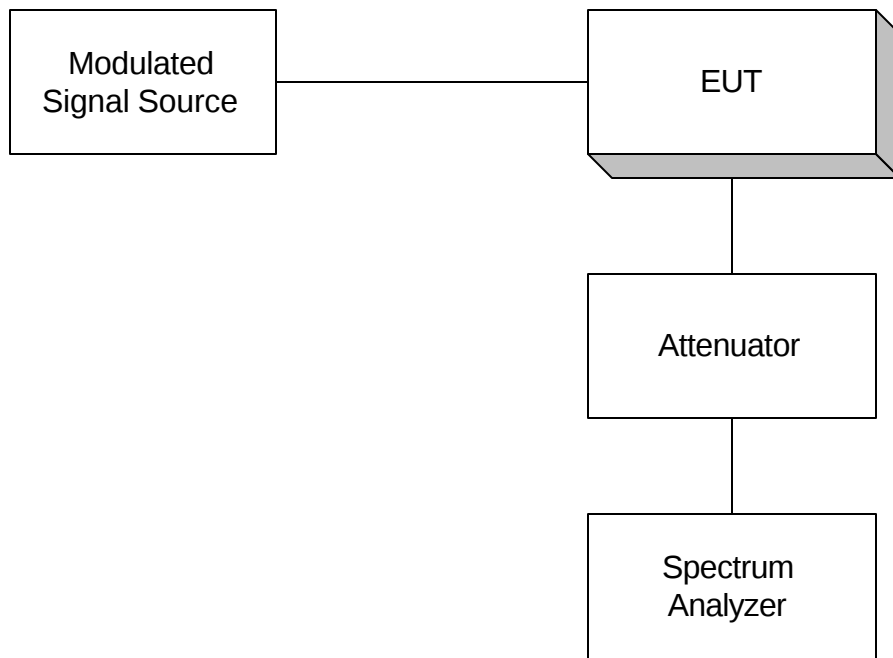
Para. No. 2.985 - R.F. Power Output



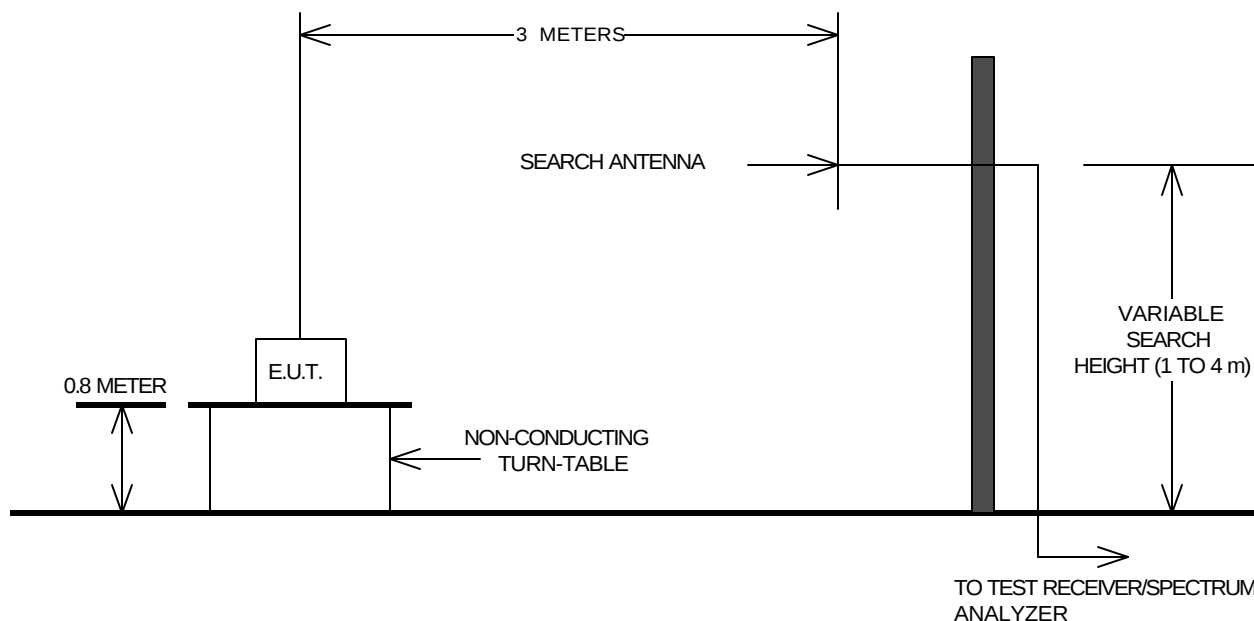
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability

