Section 5. Spurious Emissions at Antenna Terminals

NAME OF TEST: Spurious Emissions @ Antenna Terminals	PARA. NO.: 2.991
TESTED BY: Chinda Poy	Date: 7/12/01

Test Results: Complies.

Test Data: See attached graph(s).

Test Data – Spurious Emissions at Antenna Terminals

Nemko Dallas, Inc.

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

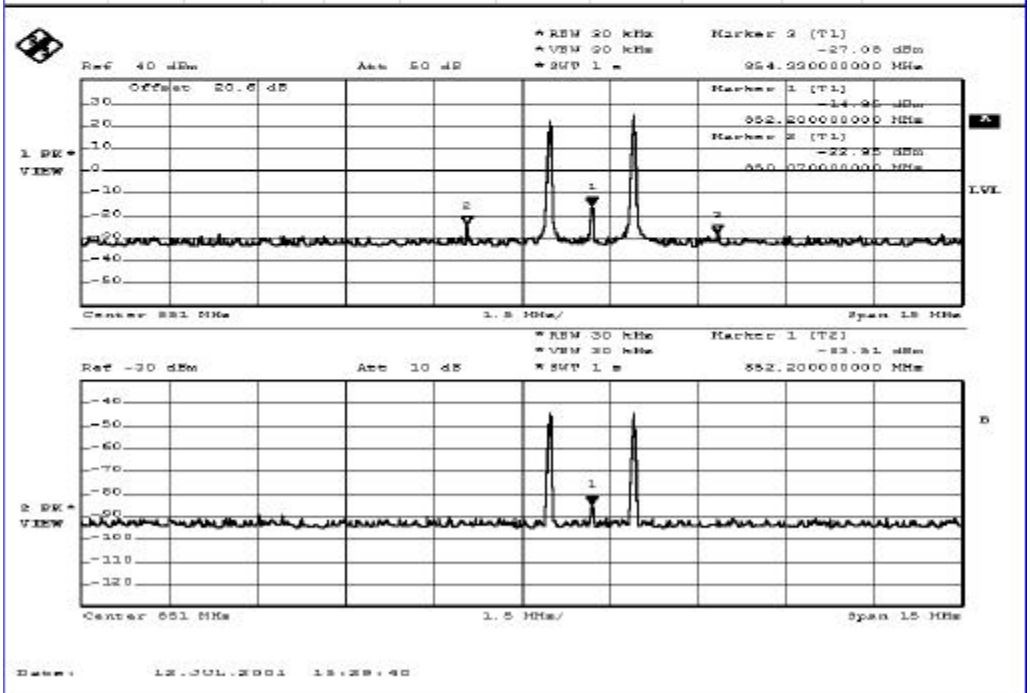
Data Plot INTERMODULATION CHARACTERISTICS / iDEN

Page 1 of 4				Complete	X
Job No.:	1L0016R	Date:	7/12/01	Preliminary	
Specification:	Part 90	Temperature(°C):	23		
Tested By:	Chinda Poy	Relative Humidity(%):	47		
E.U.T.:	Trunking / iDEN Enhanced Fast System				
Configuration:	TX FULL POWER				
Sample Number:	801				
Location:	Lab 1	RBW:	Refer to plots		
Detector Type:	Peak	VBW:	Refer to plots		

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	1082
Filter:		Cable #2:	
Receiver:	83629	Cable #3:	
Attenuator #1:	1604	Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:
Measurement Uncertainty: +/-3.6 dB



Notes:	iDEN LOWER BANDEDGE INTERMOD (DOWNLINK)
	MARKER 1 (T1)(T2) INDICATES SIGNAL GENERATED BY THE IQ MODULATION GENERATOR
	MARKER 2 INDICATES HIGHEST EMISSION OUT OF BAND
	MARKER 3 INDICATES HIGHEST EMISSION INBAND

Test Data – Spurious Emissions at Antenna Terminals

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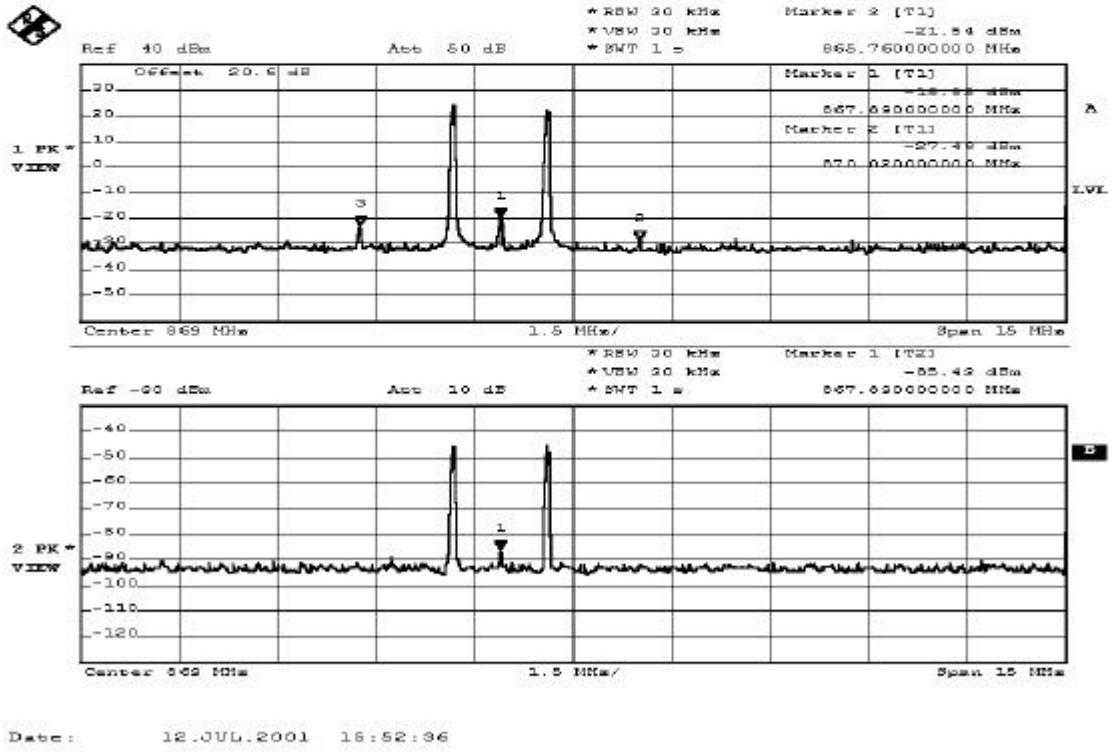
Data Plot INTERMODULATION CHARACTERISTICS / iDEN

Page 2 of 4

Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Puy	Relative Humidity(%):	47
E.U.T.:	Trunking / iDEN Brisecell Fast System		
Configuration:	TX FULL POWER		



Notes:	iDEN UPPER BANDEDGE INTERMOD (DOWNLINK)
	MARKER 1 (T1)(T2) INDICATES SIGNAL GENERATED BY THE IQ MODULATION GENERATOR
	MARKER 2 INDICATES HIGHEST EMISSION OUT OF BAND
	MARKER 3 INDICATES HIGHEST EMISSION INBAND

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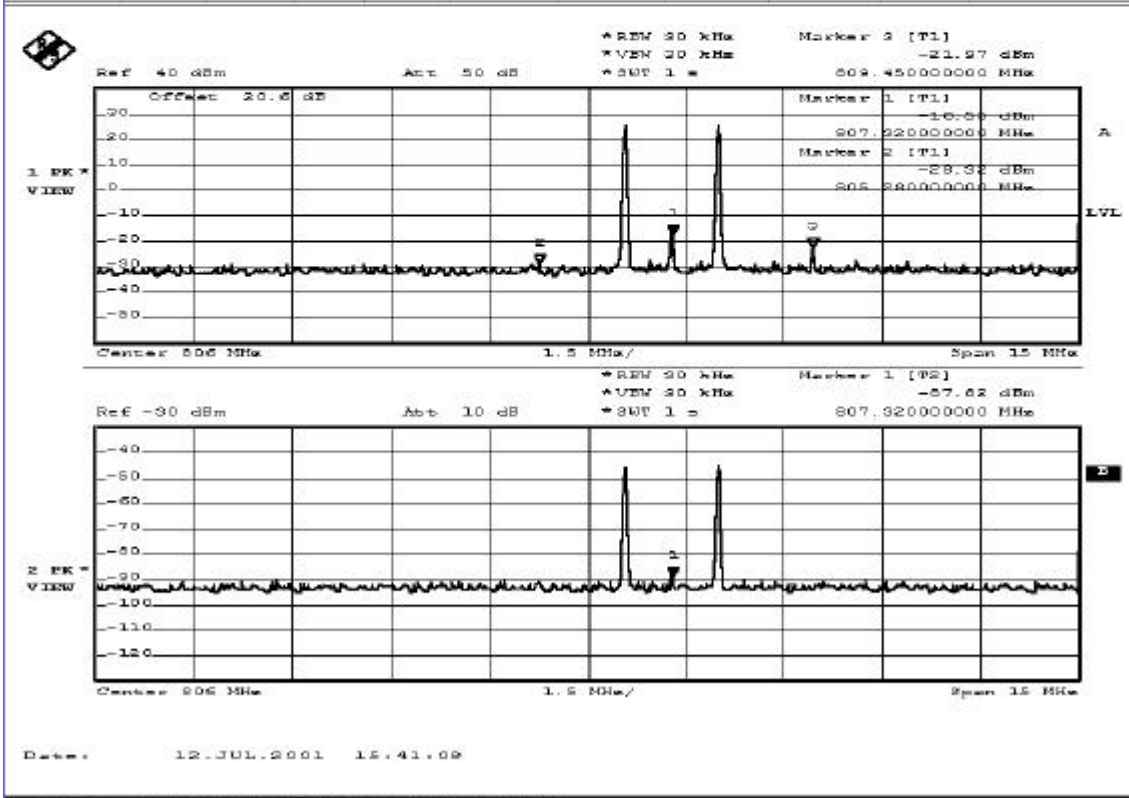
Data Plot INTERMODULATION CHARACTERISTICS / iDEN

Page 3 of 4

Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Poy	Relative Humidity(%):	47
E.U.T.:	Trunking / iDEN Motorola Fast System		
Configuration:	TX FULL POWER		



Notes:	iDEN LOWER BANDEDGE INTERMOD (UPLINK)
	MARKER 1 (T1)(T2) INDICATES SIGNAL GENERATED BY THE IQ MODULATION GENERATOR
	MARKER 2 INDICATES HIGHEST EMISSION OUT OF BAND
	MARKER 3 INDICATES HIGHEST EMISSION INBAND

Test Data – Spurious Emissions at Antenna Terminals

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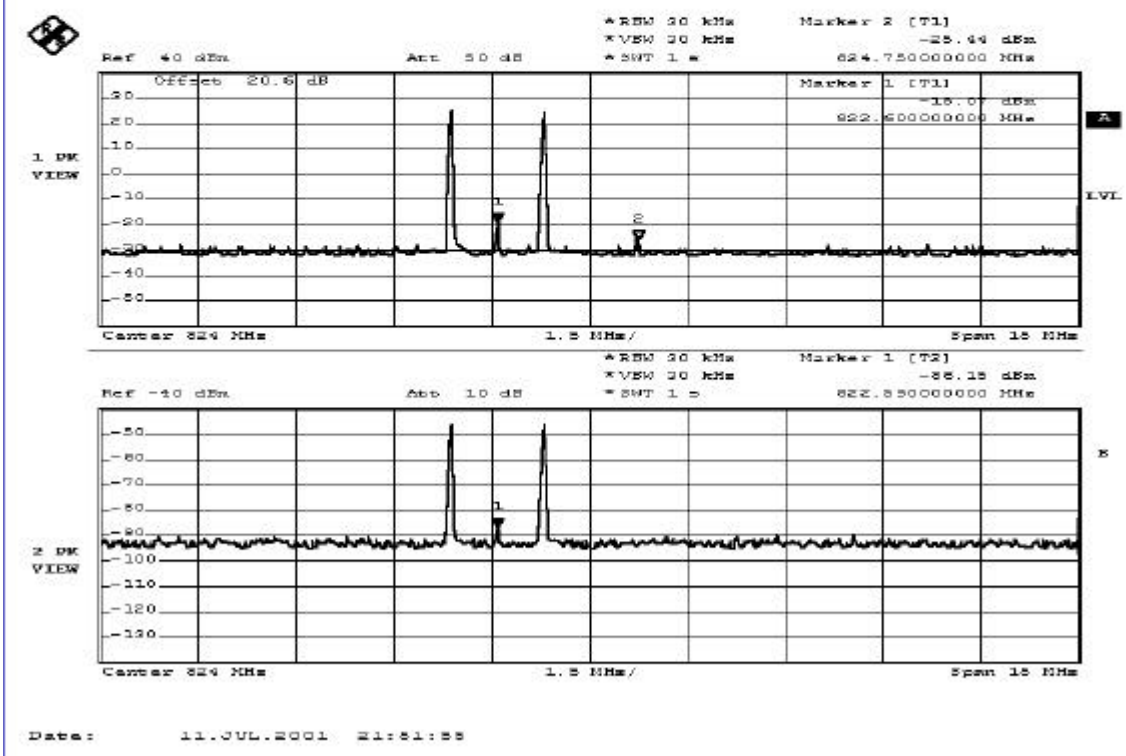
Test Plot: INTERMODULATION CHARACTERISTICS / iDEN

Page 4 of 4

Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Poy	Relative Humidity(%):	47
E.U.T.:	Trunking / iDEN Motorola Fast System		
Configuration:	TX FULL POWER		



Notes:	iDEN UPPER BANDEDGE INTERMOD (UPLINK)
	MARKER 1 (T1)(T2) INDICATES SIGNAL GENERATED BY THE IQ MODULATION GENERATOR
	MARKER 2 INDICATES HIGHEST EMISSION OUT OF BAND

Test Data – Spurious Emissions at Antenna Terminals

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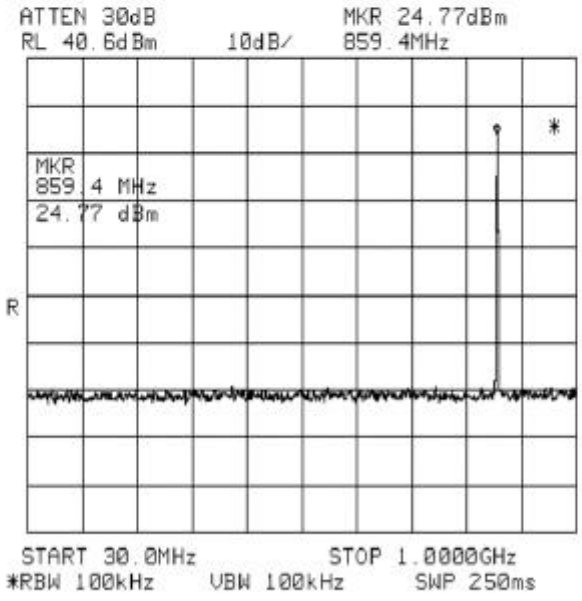
Data Plot **ANTENNA PORT SPURIOUS EMISSIONS / iDEN.**

Page 1 of 2				Complete	X
Job No.:	1L0016R	Date:	7/12/01	Preliminary	
Specification:	Part 90	Temperature(°C):	23		
Tested By:	ChindaPoy	Relative Humidity(%):	47		
E.U.T.:	MR803P-TR				
Configuration:	TX FULL POWER				
Sample Number:					
Location:	Lab 1	RBW:	Refer to plots		
Detector Type:	Peak	VBW:	Refer to plots		

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	1082
Filter:		Cable #2:	
Receiver:	86329	Cable #3:	
Attenuator #1:	1604	Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:
Measurement Uncertainty: +/-3.6 dB



Notes:	Marker indicates carrier
	iDEN modulation
	30MHz - 1GHz

Test Data – Spurious Emissions at Antenna Terminals

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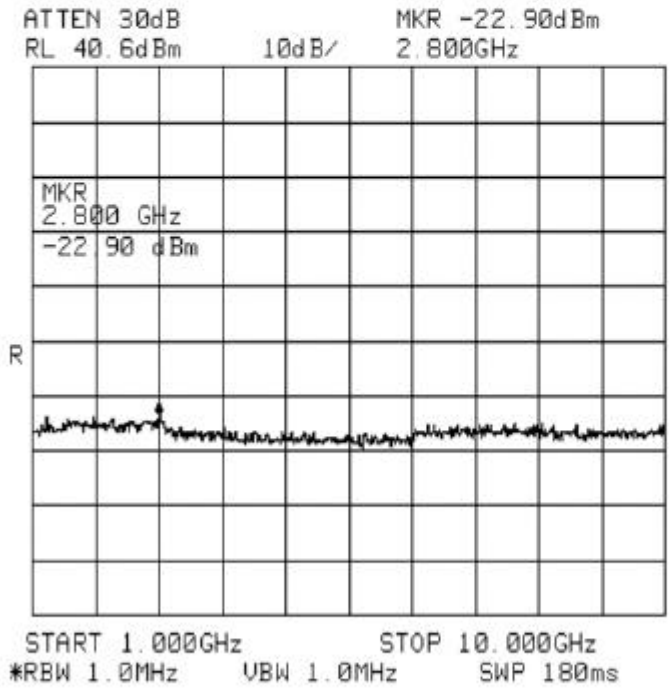
Data Plot ANTENNA PORT SPURIOUS EMISSIONS / iDEN.

Page 2 of 2

Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Puy	Relative Humidity(%):	47
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes:	Marker indicates highest emission
	iDEN modulation
	1GHz - 10GHz

Test Data – Spurious Emissions at Antenna Terminals

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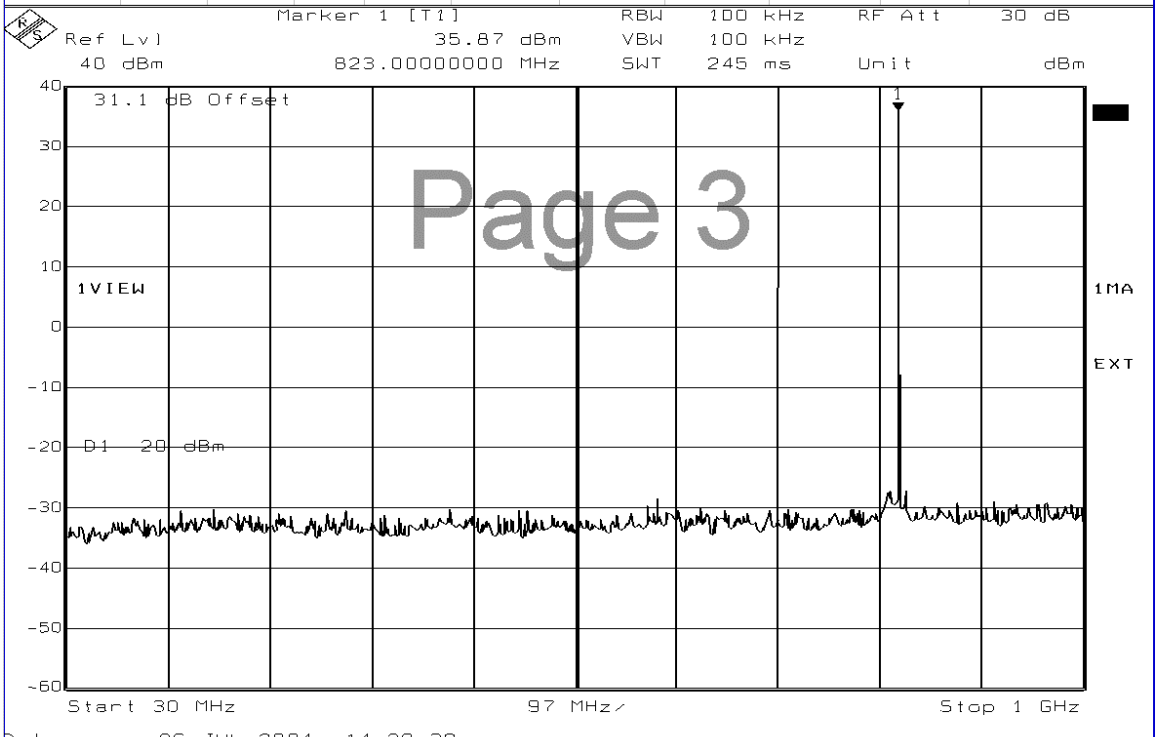
Data Plot **ANTENNA PORT SPURIOUS EMISSIONS / iDEN.**

Page 3 of 4			
Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Poy	Relative Humidity(%)	47
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes:	**Uplink**
	Marker indicates carrier

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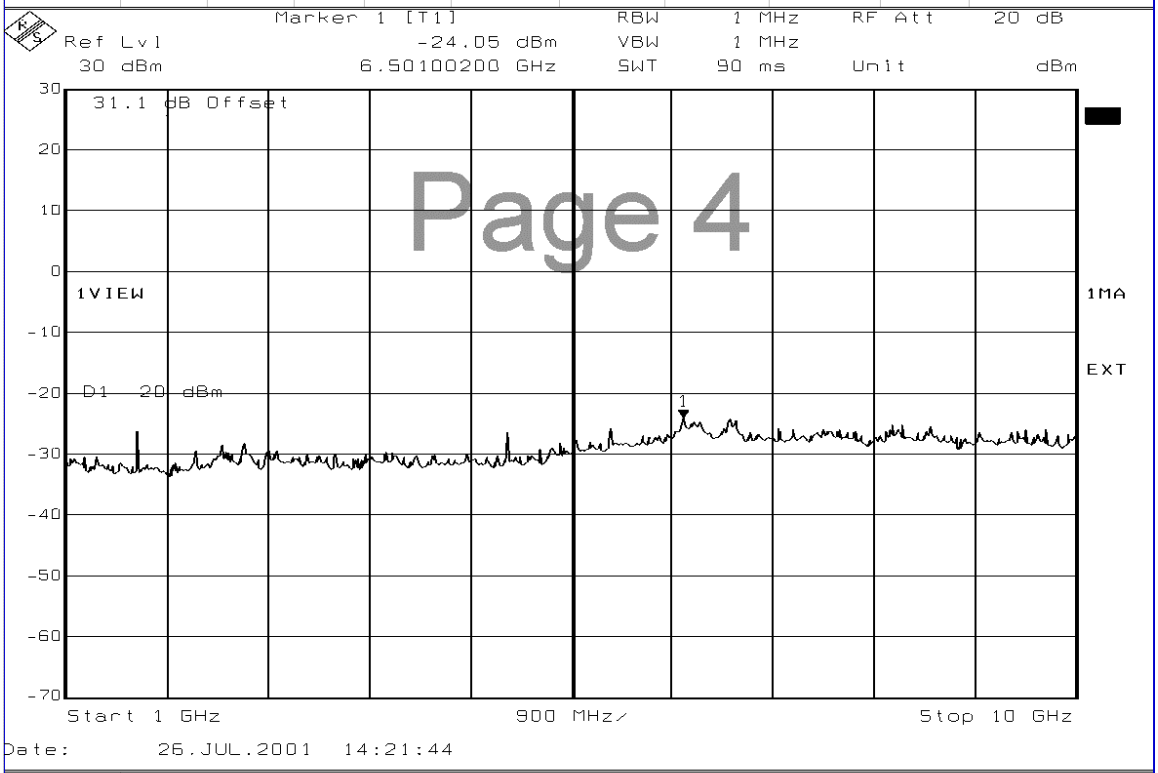
Test Plot: ANTENNA PORT SPURIOUS EMISSIONS / iDEN.

Page 4 of	4		
Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Poy	Relative Humidity(%)	47
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes: **Uplink**

Test Data – Spurious Emissions at Antenna Terminals

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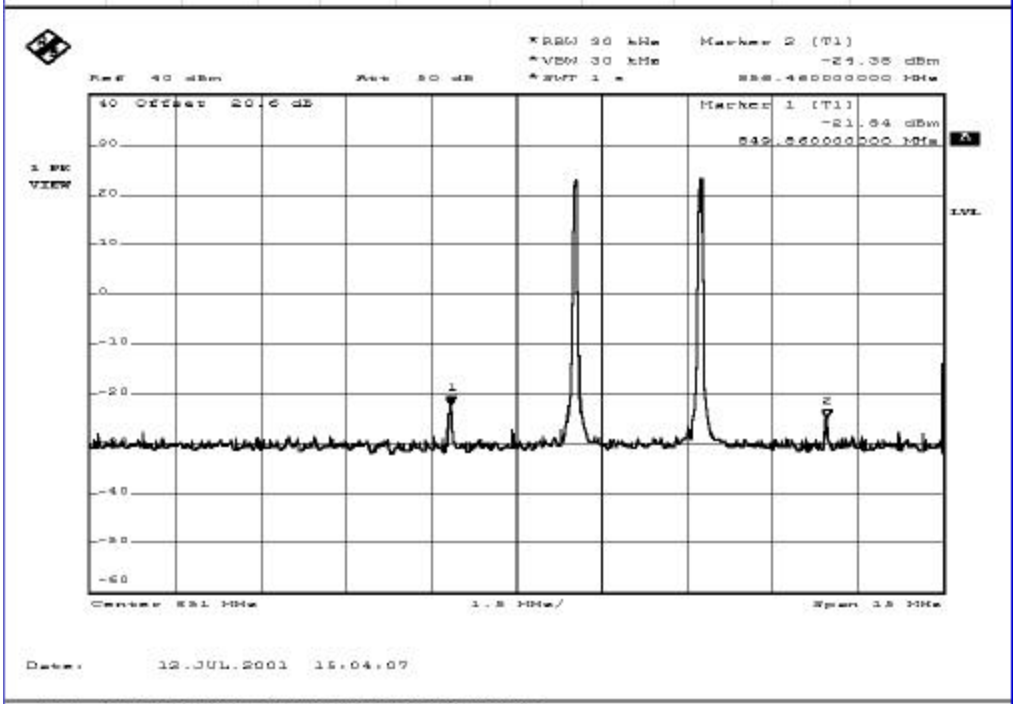
Data Plot INTERMODULATION CHARACTERISTICS / VOICE

Page 1 of 9			Complete X
Job No.: 1L0016R	Date: 7/11/01		Preliminary
Specification: Part 90	Temperature(°C): 25		
Tested By: Chinda Roy	Relative Humidity(%): 50		
E.U.T.: MR803P-TR			
Configuration: TX FULL POWER			
Sample Number: 301			
Location: Lab 1	RBW: Refer to plots		
Detector Type: Peak	VBW: Refer to plots		

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1: 1032	
Filter:		Cable #2:	
Receiver: 83629		Cable #3:	
Attenuator #1: 1604		Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:
Measurement Uncertainty: +/-3.6 dB



Notes:	VOICE LOWER BANDEDGE INTERMOD (DOWNLINK)
	MARKER 1 INDICATES HIGHEST EMISSION OUT OF BAND
	MARKER 2 INDICATES HIGHEST EMISSION INBAND

Test Data – Spurious Emissions at Antenna Terminals

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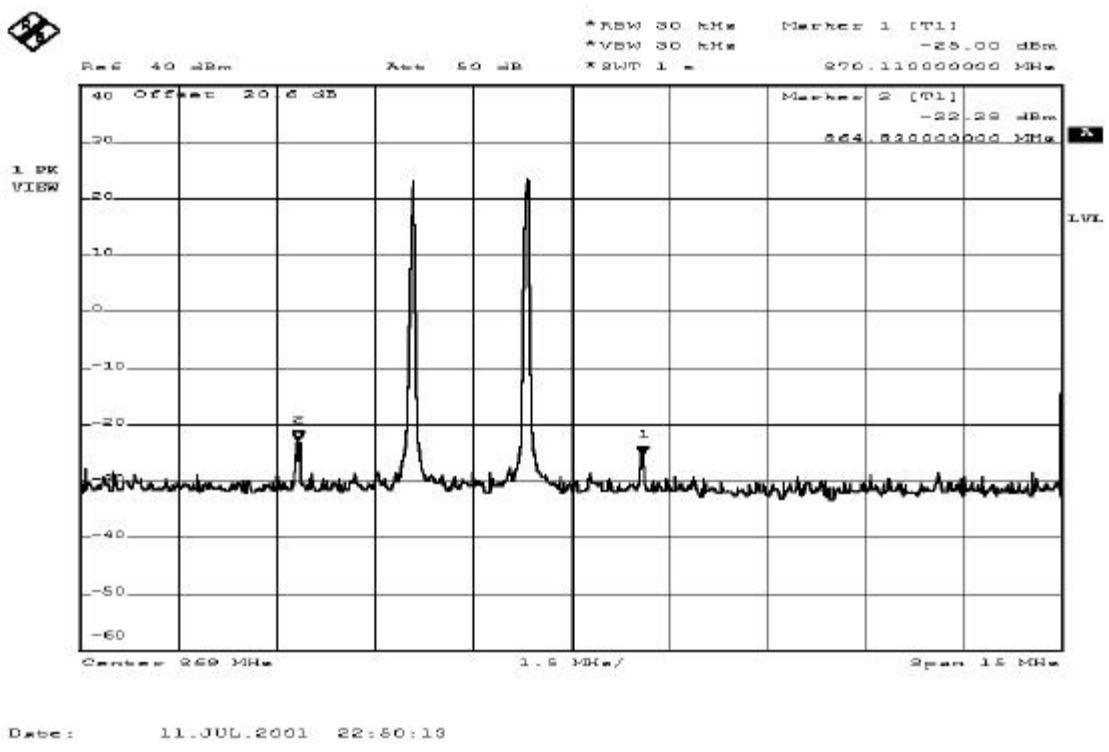
Data Plot INTERMODULATION CHARACTERISTICS / VOICE

Page 2 of 4

Job No.:	1L0016R	Date:	7/1/01
Specification:	Part 90	Temperature(°C):	25
Tested By:	Chinda Poy	Relative Humidity(%):	50
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes:	VOICE UPPER BANDEDGE INTERMOD (DOWNLINK)
	MARKER 1 INDICATES HIGHEST EMISSION OUT OF BAND
	MARKER 2 INDICATES HIGHEST EMISSION INBAND

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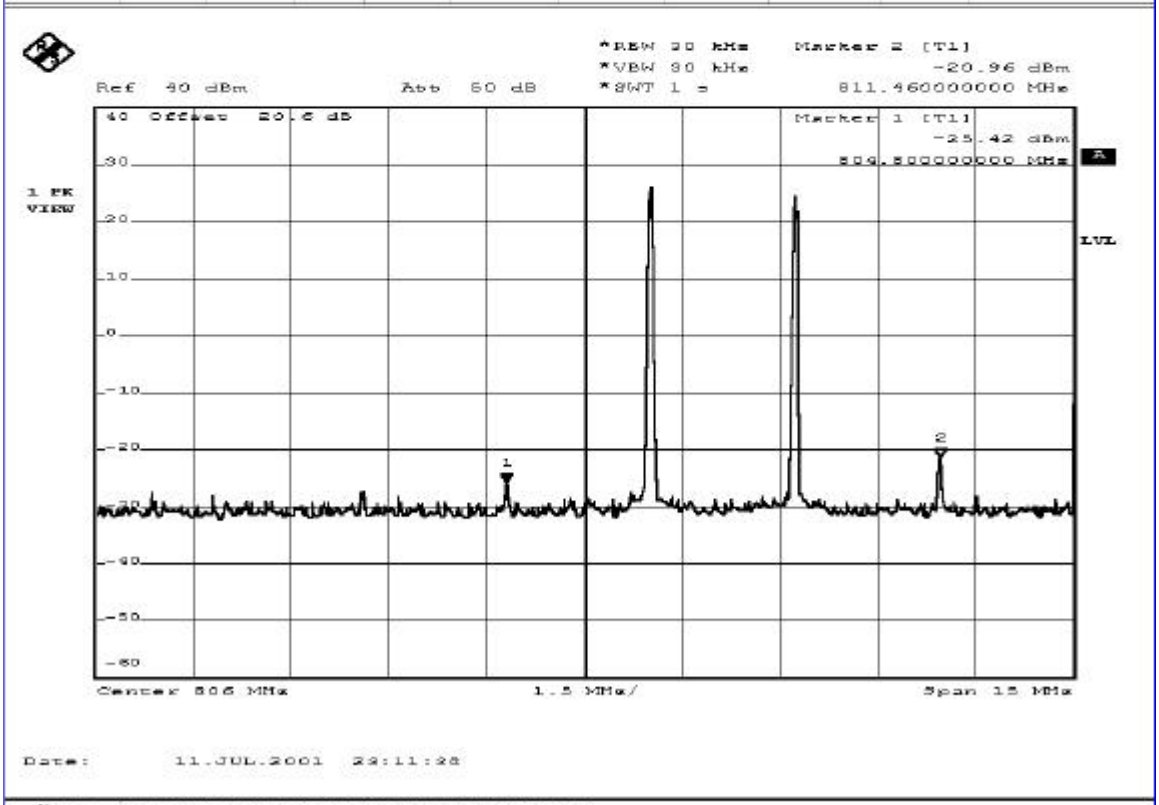
Data Plot INTERMODULATION CHARACTERISTICS / VOICE

Page 3 of 4			
Job No.:	1L0016R	Date:	7/1/01
Specification:	Part 90	Temperature(°C):	25
Tested By:	Chinda Poy	Relative Humidity(%):	50
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes:	VOICE LOWER BANDEDGE INTERMOD (UPNLINK)
	MARKER 1 INDICATES HIGHEST EMISSION OUT OF BAND
	MARKER 2 INDICATES HIGHEST EMISSION INBAND

Test Data – Spurious Emissions at Antenna Terminals

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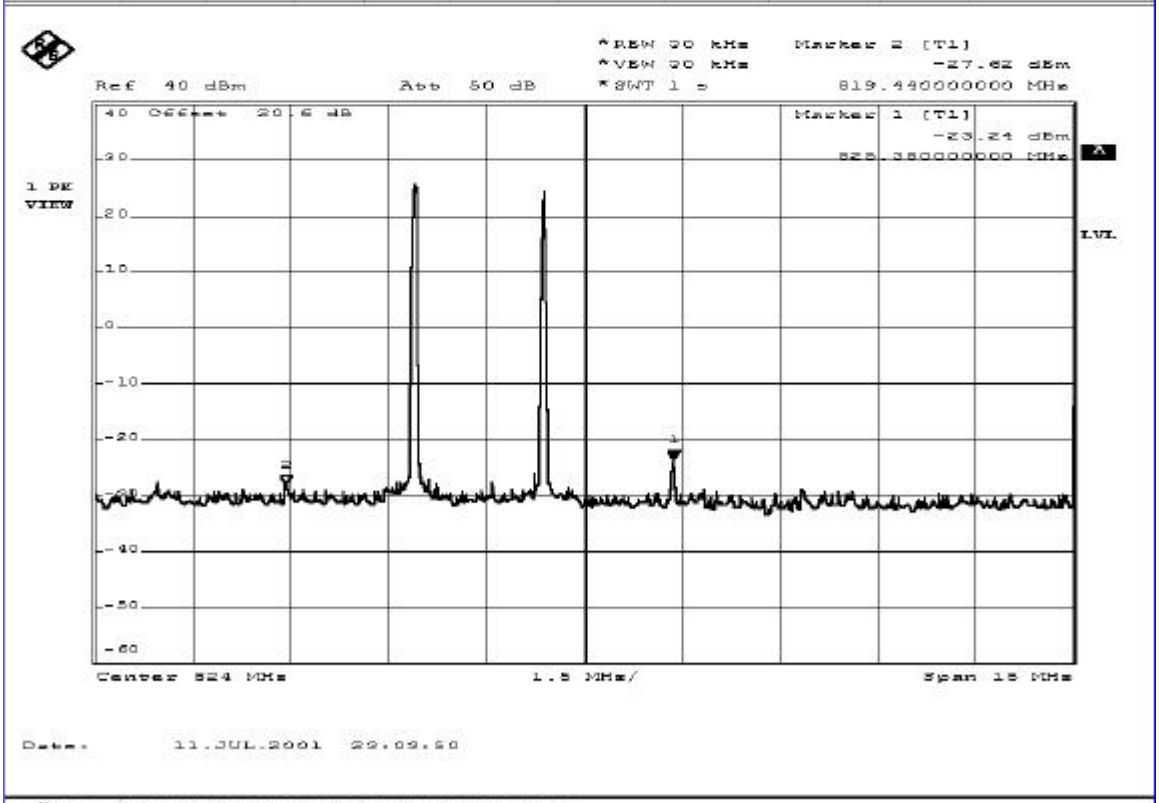
Test Plot: INTERMODULATION CHARACTERISTICS / VOICE

Page 4 of 4			
Job No.:	1L0016R	Date:	7/11/01
Specification:	Part 90	Temperature(°C):	25
Tested By:	Chinda Poy	Relative Humidity(%):	50
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes:	VOICE UPPER BANDEDGE INTERMOD (UPLINK)
	MARKER 1 INDICATES HIGHEST EMISSION OUT OF BAND
	MARKER 2 INDICATES HIGHEST EMISSION INBAND

Test Data – Spurious Emissions at Antenna Terminals

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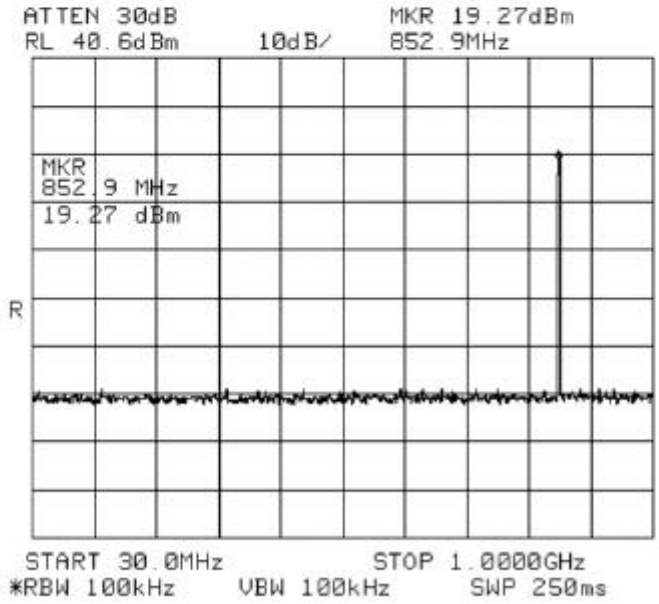
Data Plot ANTENNA PORT SPURIOUS EMISSIONS / VOICE

Page 1 of 2				Complete	X
Job No.:	1L0016R	Date:	7/12/01	Preliminary	
Specification:	Part 90	Temperature(°C):	23		
Tested By:	Chinda Poy	Relative Humidity(%):	47		
E.U.T.:	MR803P-TR				
Configuration:	TX FULL POWER				
Sample Number:	301				
Location:	Lab 1	RBW:	Refer to plots		
Detector Type:	Peak	VBW:	Refer to plots		

Test Equipment Used

Antenna:		Directional Coupler:	
Pre-Amp:		Cable #1:	1082
Filter:		Cable #2:	
Receiver:	86329	Cable #3:	
Attenuator #1:	1601	Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:
Measurement Uncertainty: +/-3.6 dB



Notes:	Marker indicates carrier
	Voice modulation
	30MHz - 1GHz

Test Data – Spurious Emissions at Antenna Terminals

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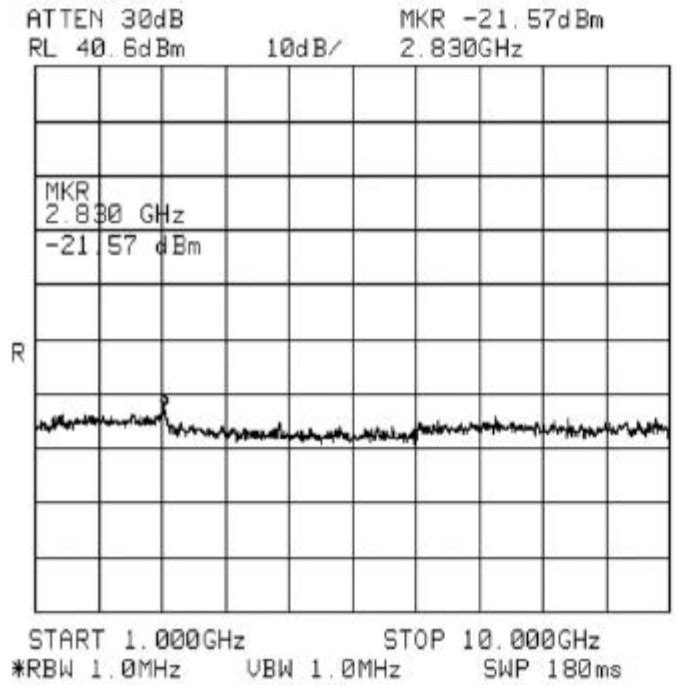
Data Plot **ANTENNA PORT SPURIOUS EMISSIONS / VOICE**

Page 2 of 2

Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Poy	Relative Humidity(%):	47
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes:	Marker indicates highest emission
	Voice modulation
	1GHz - 10GHz

Test Data – Spurious Emissions at Antenna Terminals

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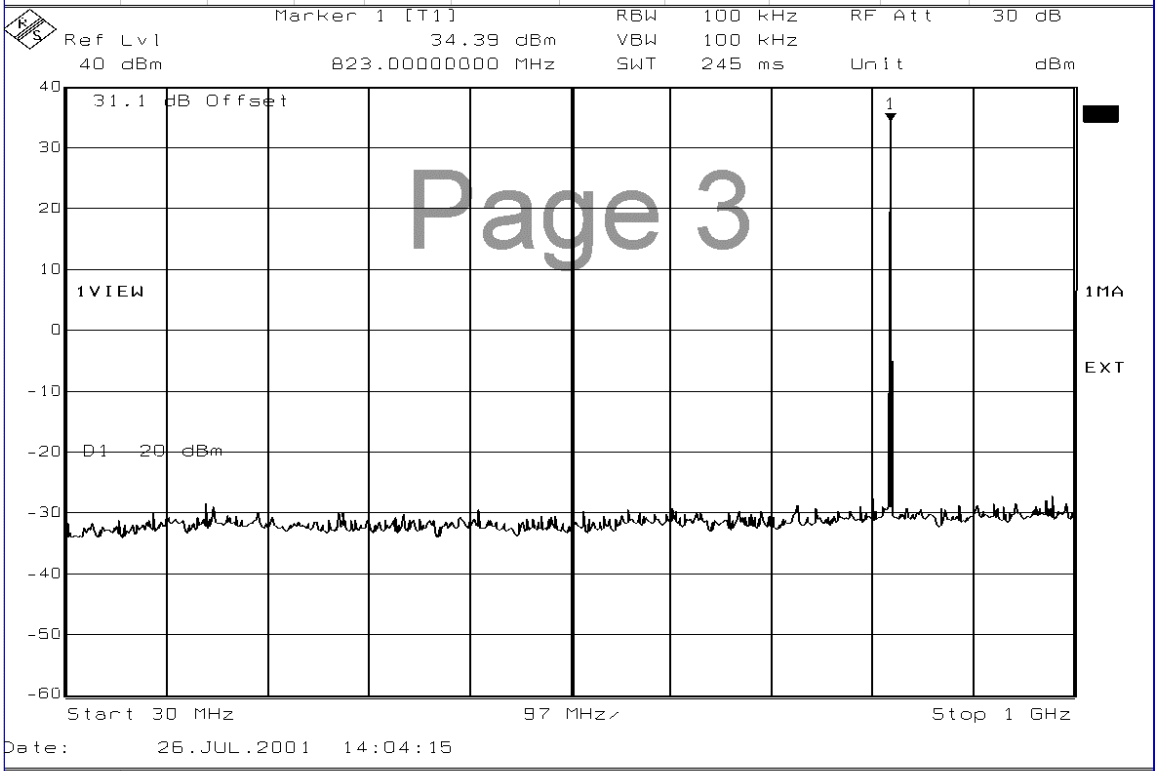
Data Plot **ANTENNA PORT SPURIOUS EMISSIONS / VOICE**

Page 3 of 4			
Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Poy	Relative Humidity(%)	47
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes:	**Marker indicates carrier**
	Uplink

Test Data – Spurious Emissions at Antenna Terminals

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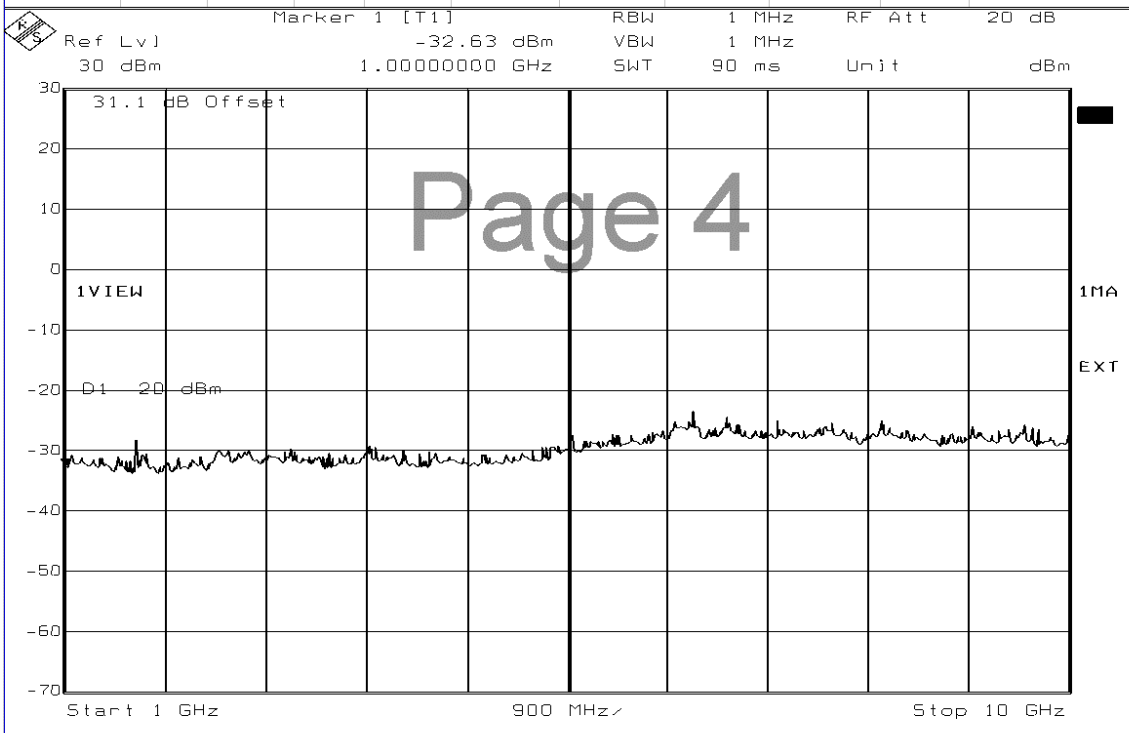
Test Plot: ANTENNA PORT SPURIOUS EMISSIONS / VOICE

Page 4 of 4			
Job No.:	1L0016R	Date:	7/12/01
Specification:	Part 90	Temperature(°C):	23
Tested By:	Chinda Poy	Relative Humidity(%)	47
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		



Notes: **Uplink**

Section 6. Field Strength of Spurious Emissions

NAME OF TEST: Field Strength of Spurious Emissions	PARA. NO.: 2.993
TESTED BY: Chinda Poy	DATE: 7/12/01

Test Results: Complies.

Test Data: See attached table.

Test Data - Radiated Emissions

Field Strength of Spurious Emissions

Page 1 of 1							Complete	x	
Job No.:	1L0016R		Date:	37084			Preliminary		
Specification:	Part 90		Temperature(°C):	23					
Tested By:	Chanda Poy		Relative Humidity(%):	47					
E.U.T.:	MR803P-TR								
Configuration:	TX FULL POWER								
Sample No:	301								
Location:	AC 3		RBW:	1 MHz			Measurement		
Detector Type:	Peak		VBW:	1 MHz			Distance:	3	m

Test Equipment Used

Antenna:	923	Directional Coupler:	
Pre-Amp:		Cable #1:	1082
Filter:		Cable #2:	1484
Receiver:	1036	Cable #3:	1486
Attenuator #1		Cable #4:	
Attenuator #2:		Mixer:	

Additional equipment used:

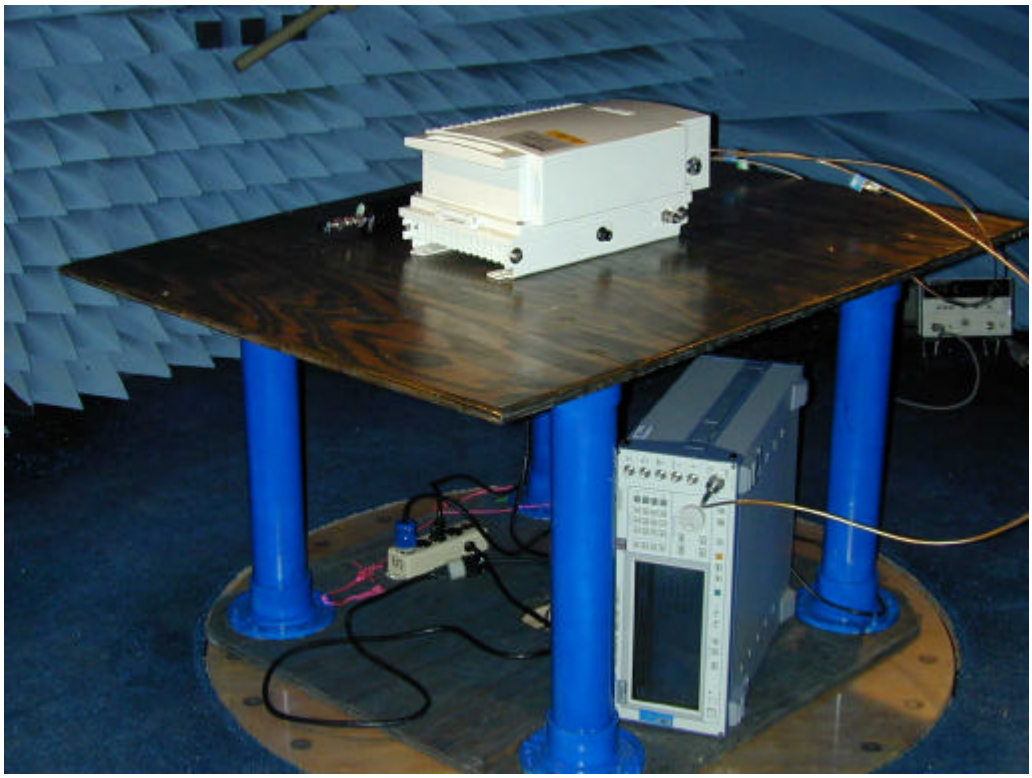
Measurement Uncertainty: +/-3.6 dB

Frequency (MHz)	Meter Reading (dBm)	Correction Factor (dB)		Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	Direction	ERP (dBm)	ERP (mW)	Polarity	Comments
1633	-60.0	29.9		32.8	6.4	Uplink	-56.6	0.000002	V	Noise Floor
2449.5	-59.7	34.1		33.8	6.9	Uplink	-52.6	0.000006	V	Noise Floor
3266	-61.0	37.1		33.8	8.1	Uplink	-49.6	0.000011	V	Noise Floor
4082.5	-61.0	42.3		33.3	7.9	Uplink	-43.6	0.000044	V	Noise Floor
4899	-62.0	41.2		33.7	9.2	Uplink	-45.4	0.000029	V	Noise Floor
5715.5	-62.0	38.5		33.3	9.1	Uplink	-47.7	0.000017	V	Noise Floor
6532	-62.0	38.3		33	10.1	Uplink	-46.6	0.000022	V	Noise Floor
7348.5	-62.3	39.4		33	10.0	Uplink	-45.9	0.000026	V	Noise Floor
8165	-61.7	41.6		33.7	9.7	Uplink	-44.0	0.000040	V	Noise Floor
1633	-59.7	32.7		32.8	6.4	Uplink	-53.4	0.000005	H	Noise Floor
2449.5	-60.0	36.7		33.8	6.9	Uplink	-50.3	0.000009	H	Noise Floor
3266	-60.5	35.8		33.8	8.1	Uplink	-50.4	0.000009	H	Noise Floor
4082.5	-61.7	35.2		33.3	7.9	Uplink	-51.9	0.000006	H	Noise Floor
4899	-62.2	35.5		33.7	9.2	Uplink	-51.2	0.000009	H	Noise Floor
5715.5	-62.5	36.0		33.3	9.1	Uplink	-50.7	0.000008	H	Noise Floor
6532	-61.5	37.8		33	10.1	Uplink	-46.5	0.000022	H	Noise Floor
7348.5	-61.5	38.7		33	10.0	Uplink	-45.8	0.000026	H	Noise Floor
8165	-62.0	42.2		33.7	9.7	Uplink	-43.8	0.000042	H	Noise Floor
1723	-59.8	32.7		33.3	6.4	Downlink	-54.1	0.000004	H	Noise Floor
2584.5	-60.7	34.6		33.8	8.0	Downlink	-51.9	0.000006	H	Noise Floor
3446	-60.7	35.8		33.6	8.1	Downlink	-50.4	0.000009	H	Noise Floor
4307.5	-61.7	35.2		33.5	7.9	Downlink	-52.1	0.000006	H	Noise Floor
5169	-62.7	36.3		33.5	9.1	Downlink	-50.8	0.000008	H	Noise Floor
6030.5	-61.7	36.6		32.7	9.5	Downlink	-48.3	0.000015	H	Noise Floor
6892	-62.7	37.8		32.8	10.1	Downlink	-47.5	0.000018	H	Noise Floor
7753.5	-61.5	39.8		33.3	9.4	Downlink	-45.6	0.000028	H	Noise Floor
8615	-62.0	41.8		34.3	9.9	Downlink	-44.5	0.000035	H	Noise Floor
1723	-60.3	29.9		33.3	6.4	Downlink	-57.4	0.000002	V	Noise Floor
2584.5	-61.0	35.6		33.8	8.0	Downlink	-51.3	0.000007	V	Noise Floor
3446	-62.0	37.1		33.6	8.1	Downlink	-50.4	0.000009	V	Noise Floor
4307.5	-61.7	42.8		33.5	7.9	Downlink	-44.4	0.000036	V	Noise Floor
5169	-62.5	40.6		33.5	9.1	Downlink	-46.3	0.000023	V	Noise Floor
6030.5	-62.8	37.9		32.7	9.5	Downlink	-48.2	0.000015	V	Noise Floor
6892	-62.0	38.3		32.8	10.1	Downlink	-46.4	0.000023	V	Noise Floor
7753.5	-61.0	40.4		33.3	9.4	Downlink	-44.4	0.000036	V	Noise Floor
8615	-62.8	40.3		34.3	9.9	Downlink	-46.9	0.000020	V	Noise Floor

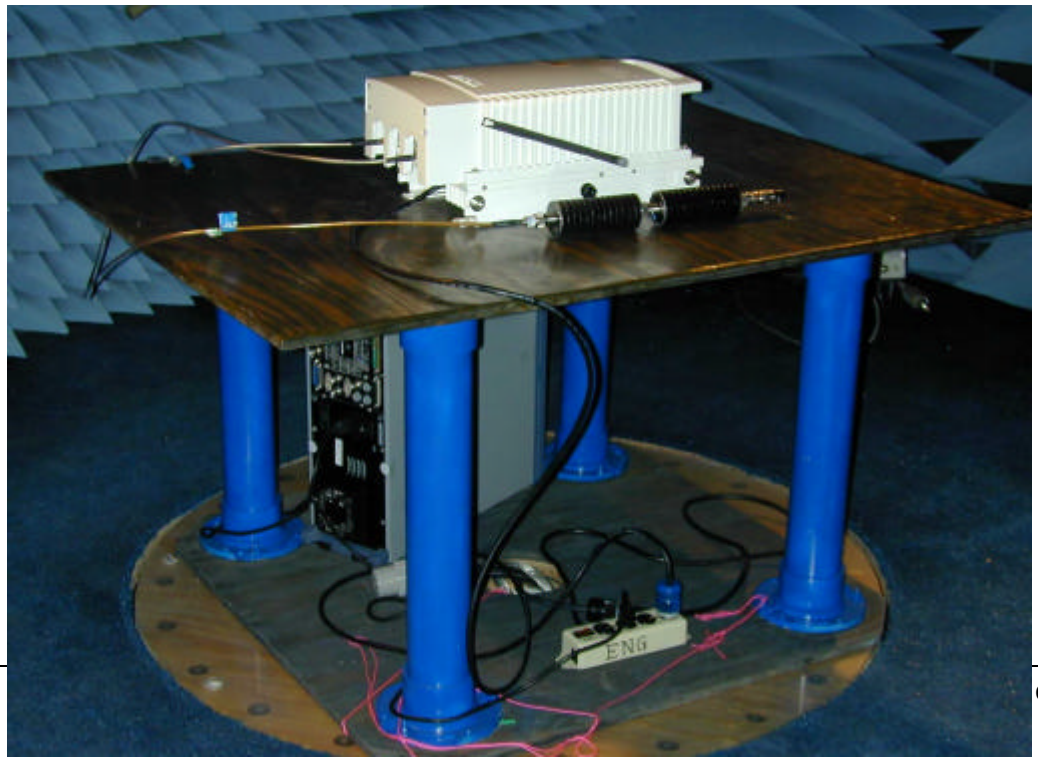
Notes: Scanned to the 10th harmonic of carrier

Photographs of Test Setup

FRONT VIEW



REAR VIEW



Section 7. Frequency Stability

NAME OF TEST: Frequency Stability	PARA. NO.: 2.995
TESTED BY:	DATE:

Test Results: Complies.

Measurement Data: See attached table.

Not Applicable

Section 8. Test Equipment List

ASSET	Description	Manufacturer Model Number	Serial Number	Cal. Date	Cal. Due
1604	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A
1082	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	06/01/01	06/01/02
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	09/17/01	09/18/03
993	Horn antenna	A.H. Systems SAS-200/571	XXX	07/16/99	07/16/01
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	05/30/01	05/30/02
1082	CABLE 2m	Astrolab 32027-2-29094-72TC	N/A	06/01/01	06/01/02
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	06/01/01	06/01/02
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	06/01/01	06/01/02
86329	SPECTRUM ANALYZER	ROHDE & SCWARZ FSP7	100124	04/09/01	04/09/02

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).

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

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.

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

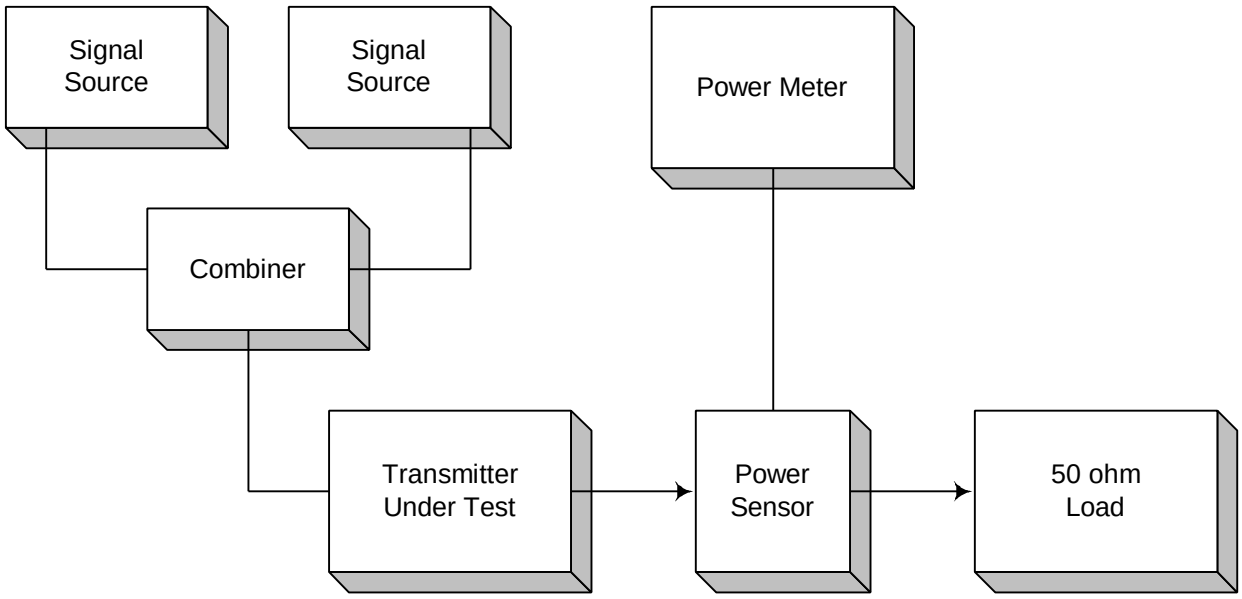
Minimum Standard: Para. No. 990.213. The transmitter carrier frequency shall remain within the assigned frequency below in ppm.

Table 2

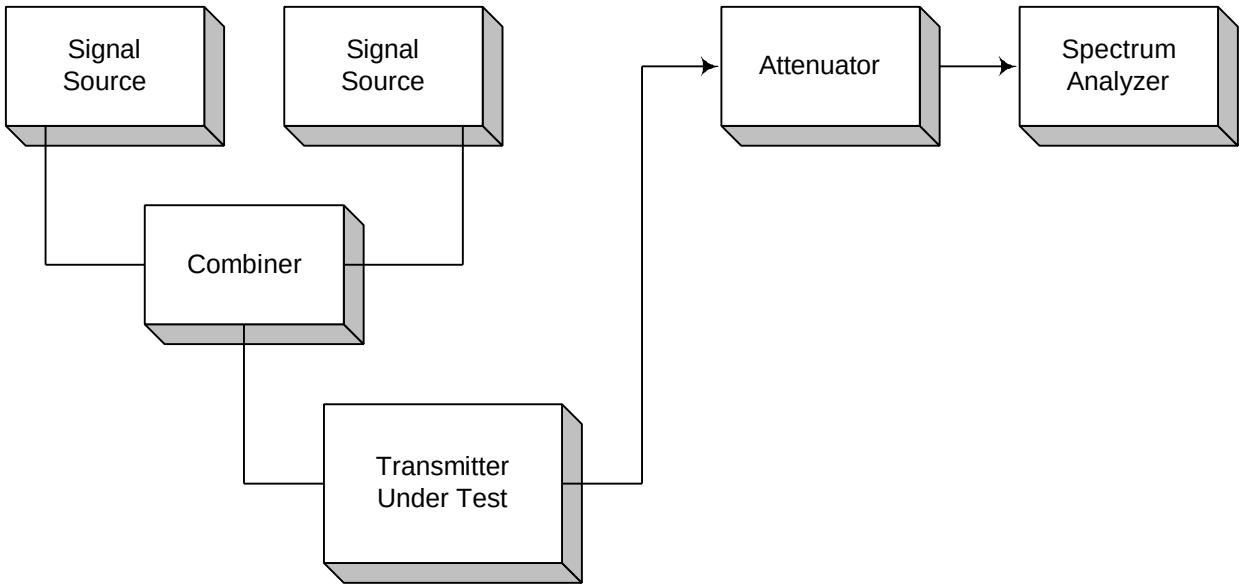
Frequency Band (MHz)	Fixed And Base Stations	Mobile Stations	
		> 2 Watts o/p pwr	< 2 Watts o/p pwr
Below 25	100	100	200
25 - 50	20	20	50
72 - 76	5	-	50
150 - 174	5	5	5
220 - 222	0.1	1.5	1.5
421 - 512	2.5	5	5
806 - 821	1.5	2.5	2.5
821 - 824	1.0	1.5	15
851 - 866	1.5	2.5	2.5
866 - 869	1.0	1.5	1.5
869 -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

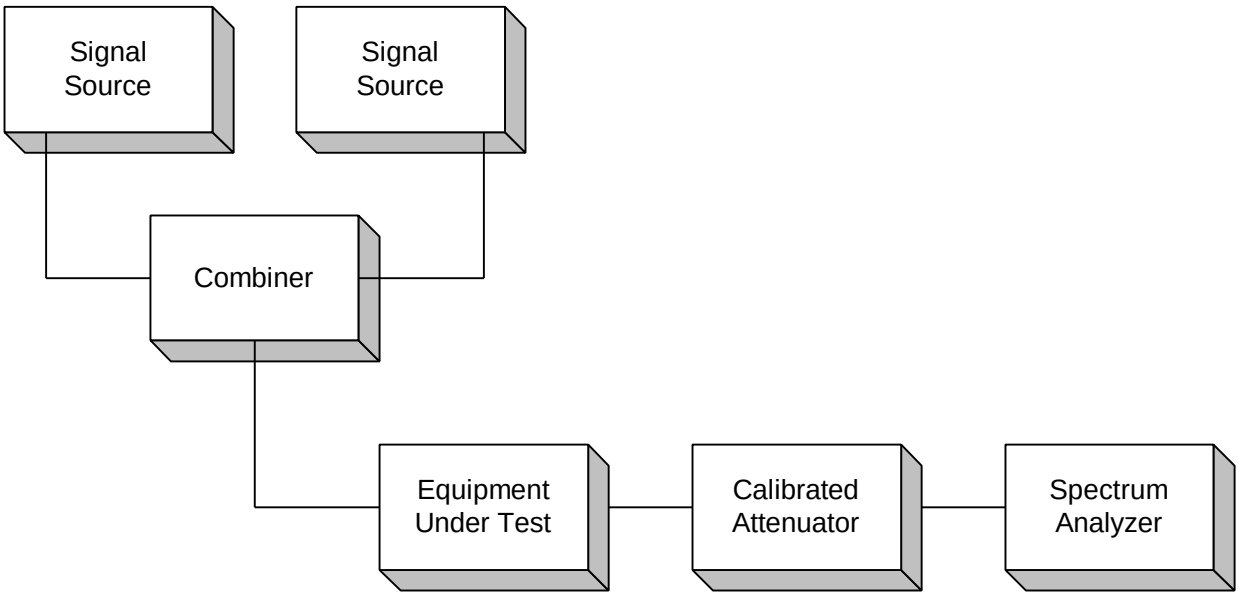
Para. No. 2.985 - R.F. Power Output



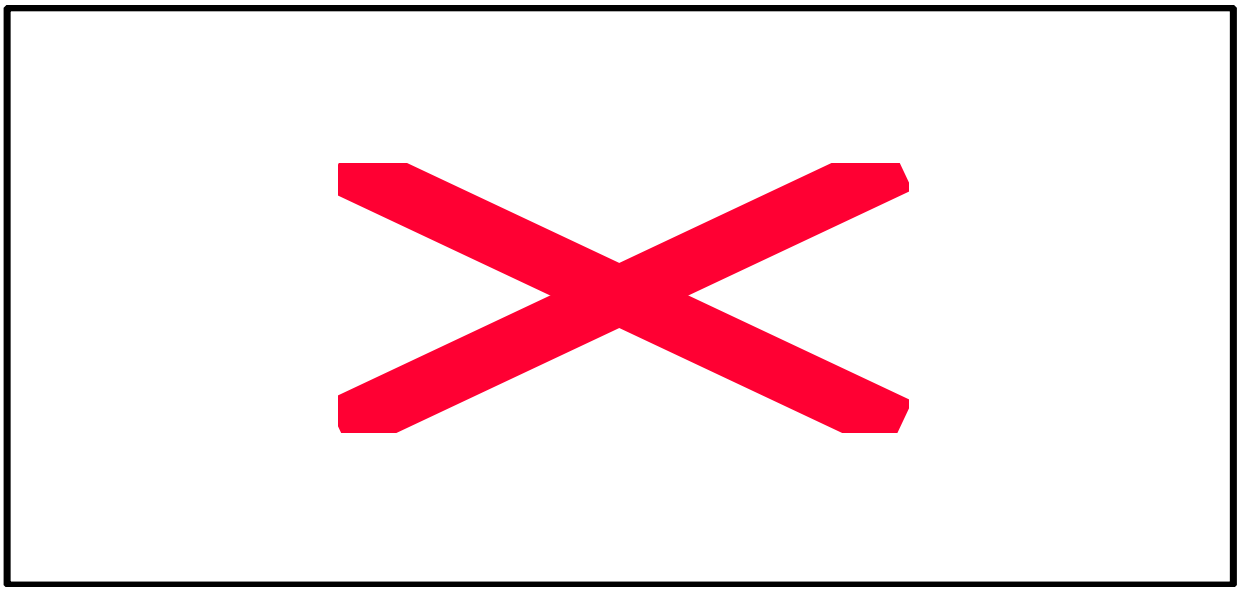
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 - Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability