

Nemko
Dallas

FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

EQUIPMENT: **MR803P-TR**

PROJECT NO.: **1L0016RUS2**

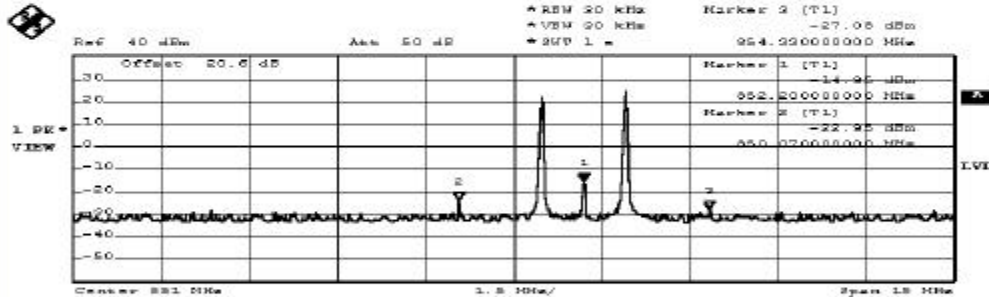
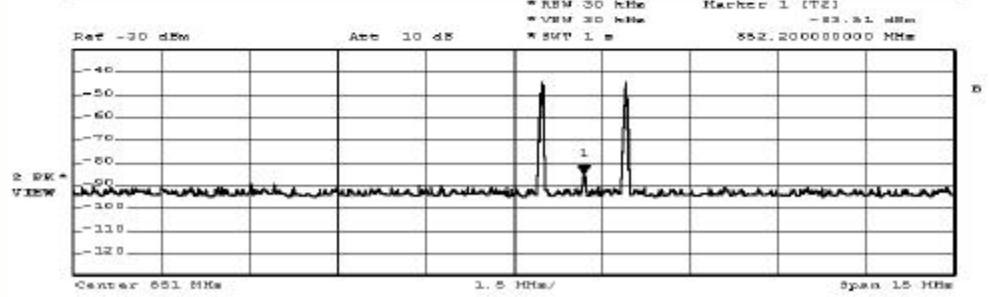
Section 5. Spurious Emissions at Antenna Terminals

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).

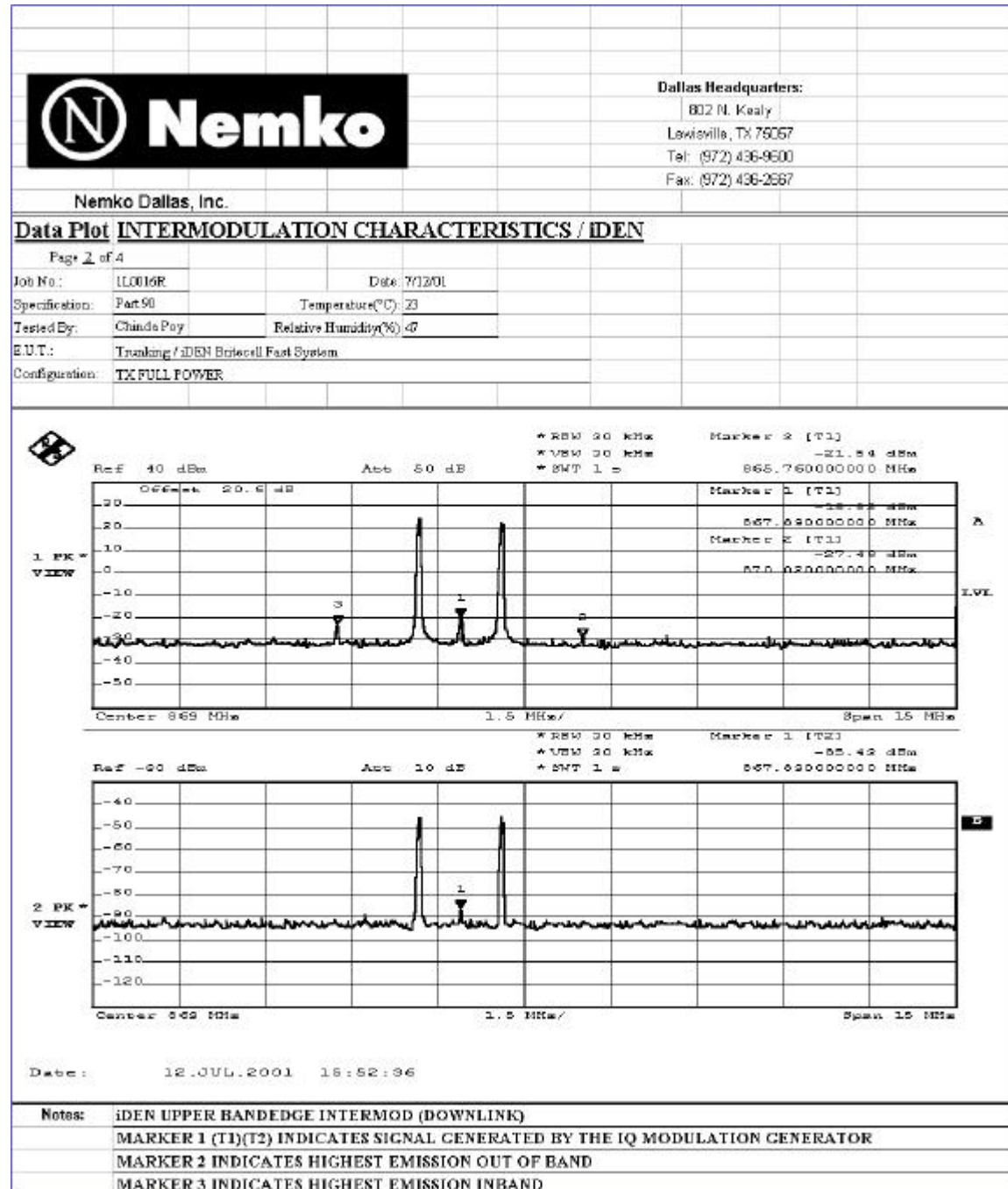
Test Data – Spurious Emissions at Antenna Terminals

		Dallas Headquarters: 802 N. Keady Lewisville, TX 75067 Tel: (972) 436-9800 Fax: (972) 436-2667	
		Nemko Dallas, Inc.	
Data Plot INTERMODULATION CHARACTERISTICS / IDEN			
Page 1 of 4		Complete ☒	
Job No.: 1L0016R	Date: 7/12/01	Preliminary ☐	
Specification: Part 90	Temperature(°C): 23		
Tested By: Chinda Poy	Relative Humidity(%): 47		
E.U.T.: Tracking / IDEN Basecell Fast System			
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: 1002		
Filter:	Cable #2:		
Resistor: 83639	Cable #3:		
Attenuator #1: 1004	Cable #4:		
Attenuator #2:	Mixer:		
A additional equipment used:			
Measurement Uncertainty: +/-3.6 dB			
			
			
Date: 12-JUL-2001 13:28:40			
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			

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

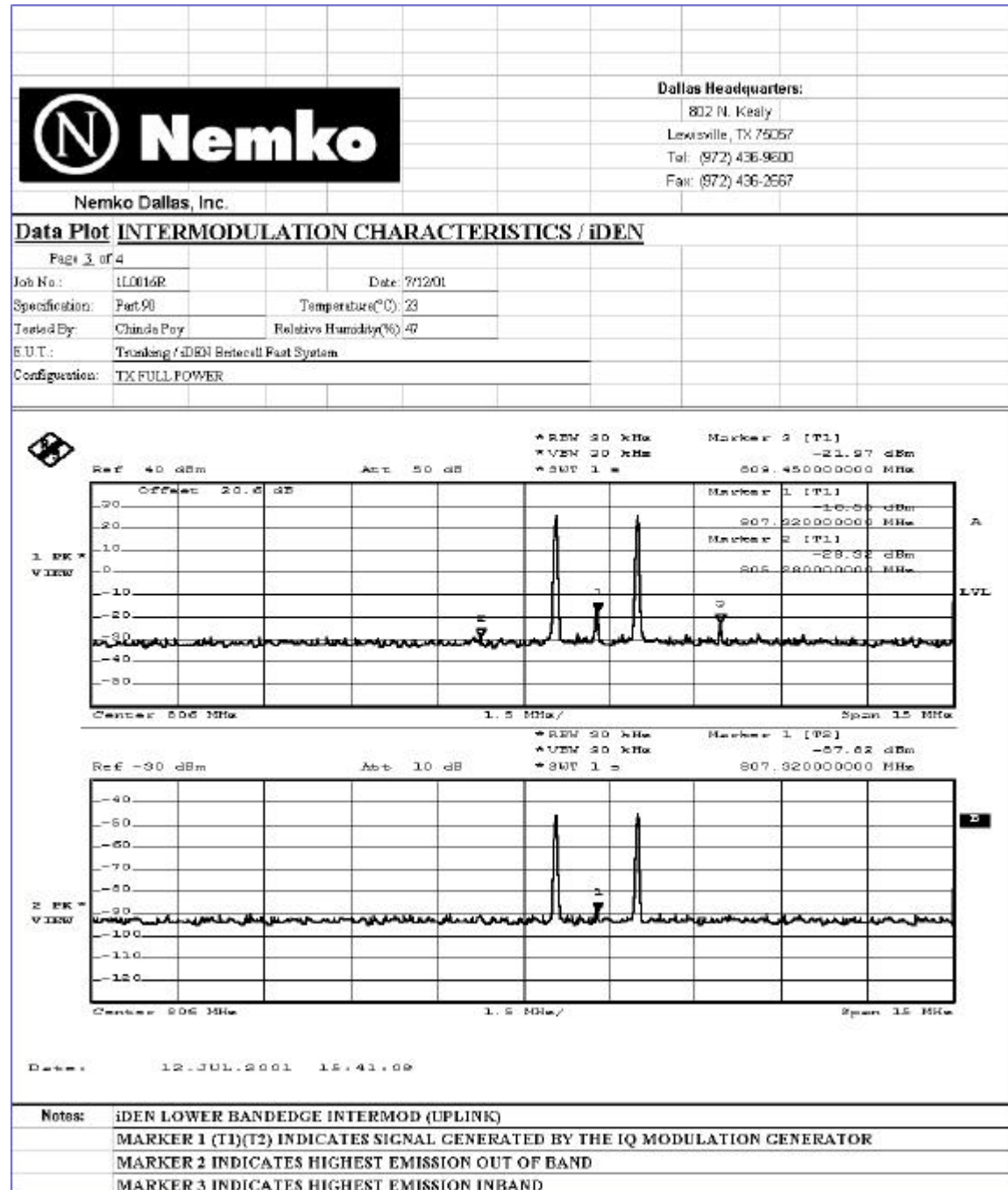
Test Data – Spurious Emissions at Antenna Terminals



EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

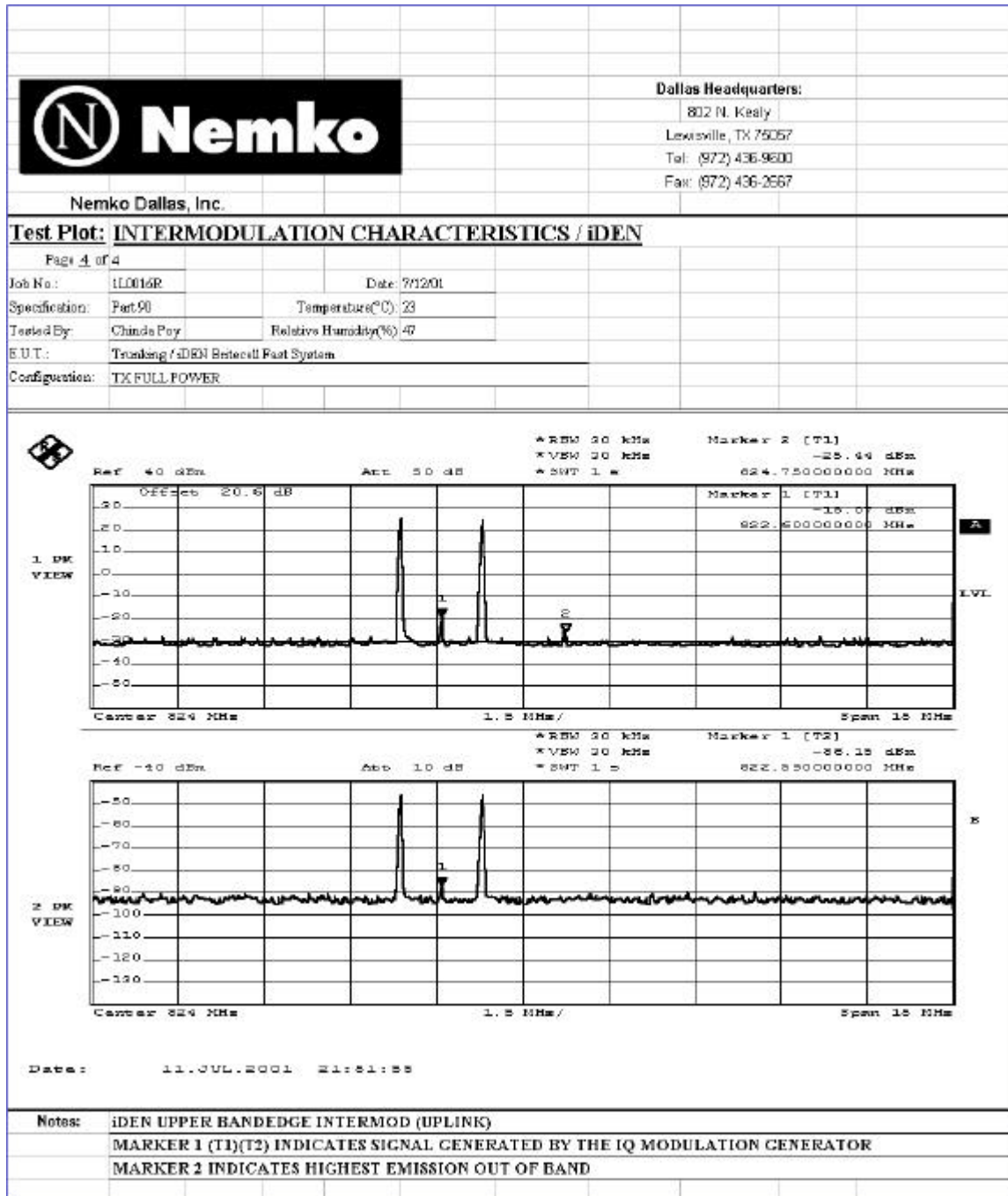
Test Data – Spurious Emissions at Antenna Terminals



EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

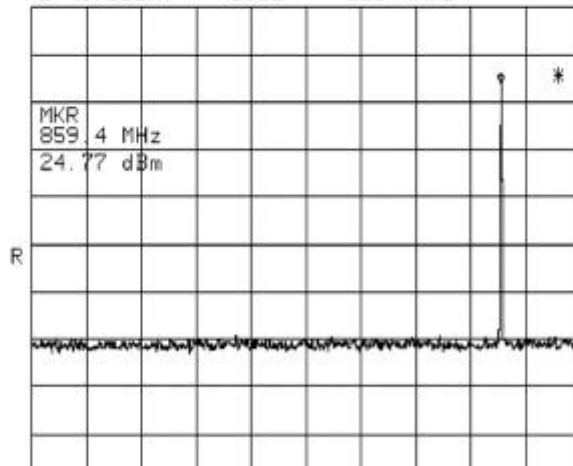
Test Data – Spurious Emissions at Antenna Terminals



EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

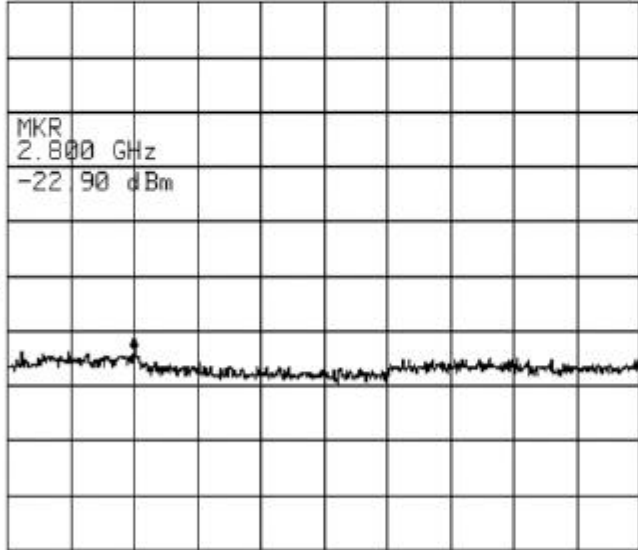
Test Data – Spurious Emissions at Antenna Terminals

		Dallas Headquarters:	
		802 N. Keady Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667	
Nemko Dallas, Inc.			
Data Plot ANTENNA PORT SPURIOUS EMISSIONS / IDEN.			
Page 1 of 2		Complete	X
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		
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:	1032
Filter:		Cable #2:	
Receiver:	86329	Cable #3:	
Attenuator #1:	1604	Cable #4:	
Attenuator #2:		Moist:	
Additional equipment used:			
Measurement Uncertainty: ± 1.6 dB			
ATTEN 30dB MKR 24.77dBm RL 40.6dBm 10dB/ 859.4MHz  START 30.0MHz STOP 1.0000GHz *RBW 100kHz VBW 100kHz SWP 250ms			
Notes: Marker indicates carrier IDEN modulation 30MHz - 1GHz			

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

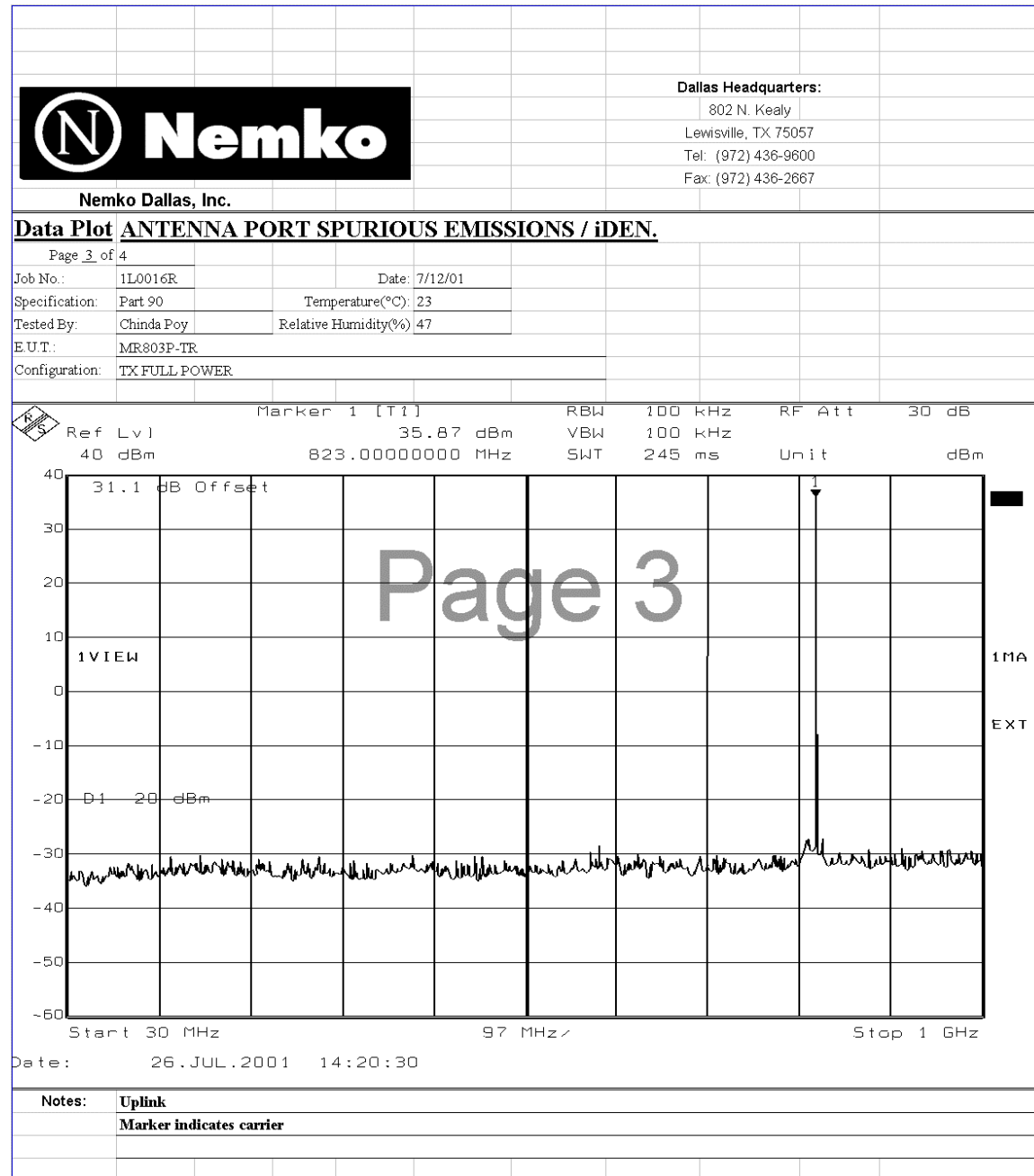
Test Data – Spurious Emissions at Antenna Terminals

		Dallas Headquarters: 802 N. Kealy Lewisville, TX 75067 Tel: (972) 436-9600 Fax: (972) 436-2667	
		Nemko Dallas, Inc.	
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:	Chanda Poy	Relative Humidity(%):	47
E.U.T.:	MR803P-TR		
Configuration:	TX FULL POWER		
ATTEN 30dB MKR -22.90dBm RL 40.6dBm 10dB/ 2.800GHz  START 1.000GHz STOP 10.000GHz *RBW 1.0MHz VBW 1.0MHz SWP 180ms			
Notes:	Marker indicates highest emission iDEN modulation 1GHz - 10GHz		

EQUIPMENT: **MR803P-TR**

PROJECT NO.: **1L0016RUS2**

Test Data – Spurious Emissions at Antenna Terminals



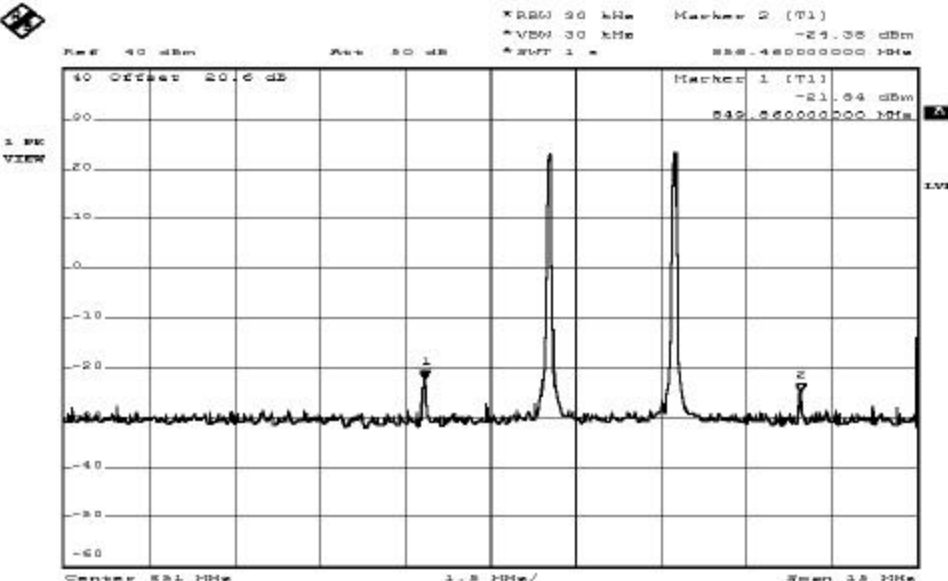
PROJECT NO.: 1L0016RUS2

N Nemko		Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667	
Nemko Dallas, Inc.			
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			
Marker 1 [T1] RBW 1 MHz RF Att 20 dB Ref Lvl -24.05 dBm VBW 1 MHz SWT 90 ms Unit dBm			
31.1 dB Offset 1 VIEW D1 20 dBm 30 20 10 0 -10 -20 -30 -40 -50 -60 -70 Start 1 GHz 900 MHz Stop 10 GHz			
Date: 26.JUL.2001 14:21:44			
Notes: Uplink			

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

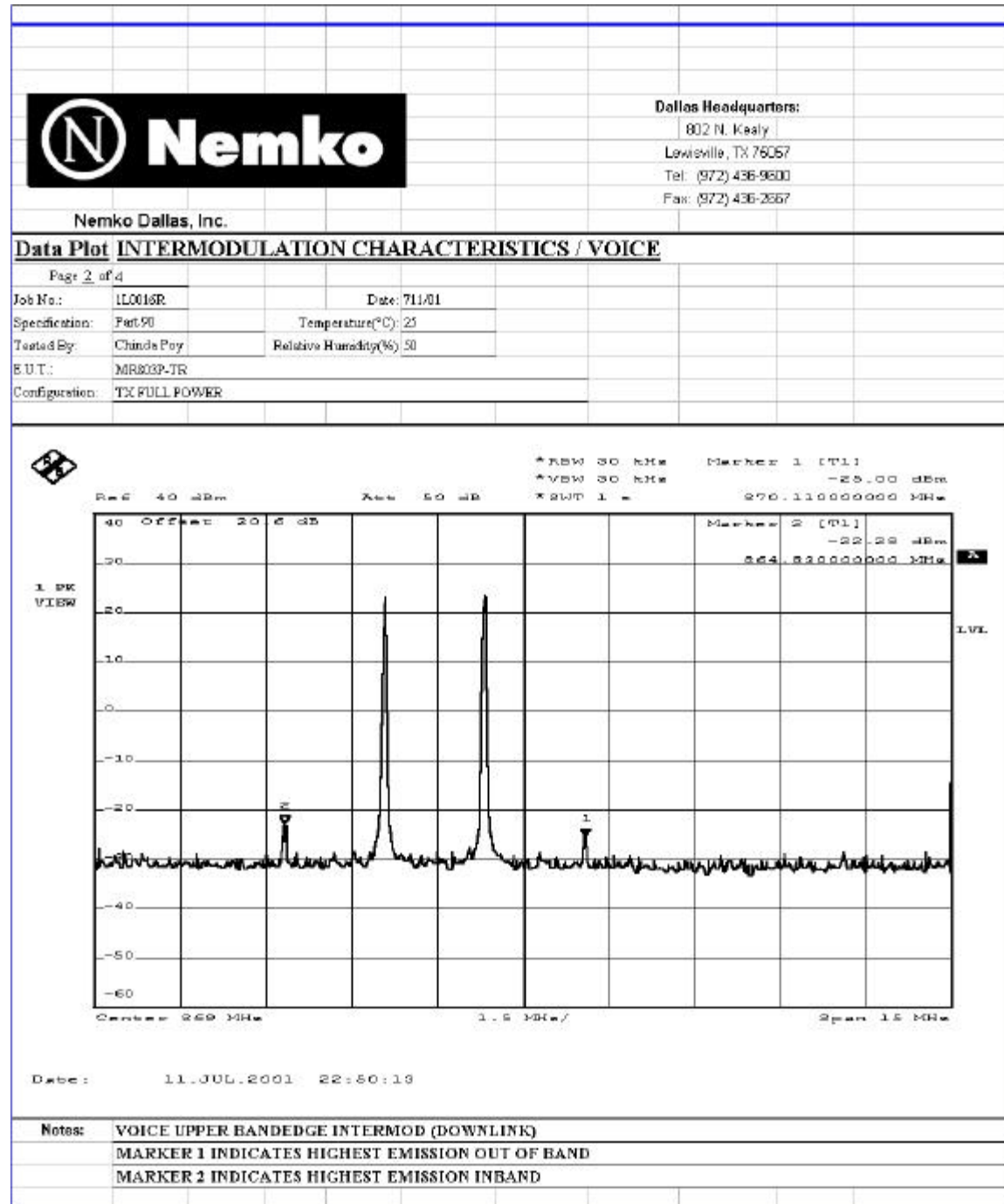
Test Data – Spurious Emissions at Antenna Terminals

		Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667	
		Nemko Dallas, Inc.	
Data Plot INTERMODULATION CHARACTERISTICS / VOICE			
Page 1 of 9		Complete ☒ Preliminary	
Job No.:	1L0016R	Date:	7/11/01
Specification:	Part 90	Temperature(°C):	25
Tested By:	ChindaPoy	Relative Humidity(%):	30
E.U.T.:	MR803P-TR		
Configuration:	TX PULL 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:	1002
Filter:		Cable #2:	
Receiver:	81629	Cable #3:	
Attenuator #1:	1604	Cable #4:	
Attenuator #2:		Mixer:	
Additional equipment used:			
Measurement Uncertainty:	+/-3.6 dB		
			
Date: 12 JUL 2001 15:04:07			
Notes: VOICE LOWER BANDEDGE INTERMOD (DOWNLINK) MARKER 1 INDICATES HIGHEST EMISSION OUT OF BAND MARKER 2 INDICATES HIGHEST EMISSION INBAND			

EQUIPMENT: MR803P-TR

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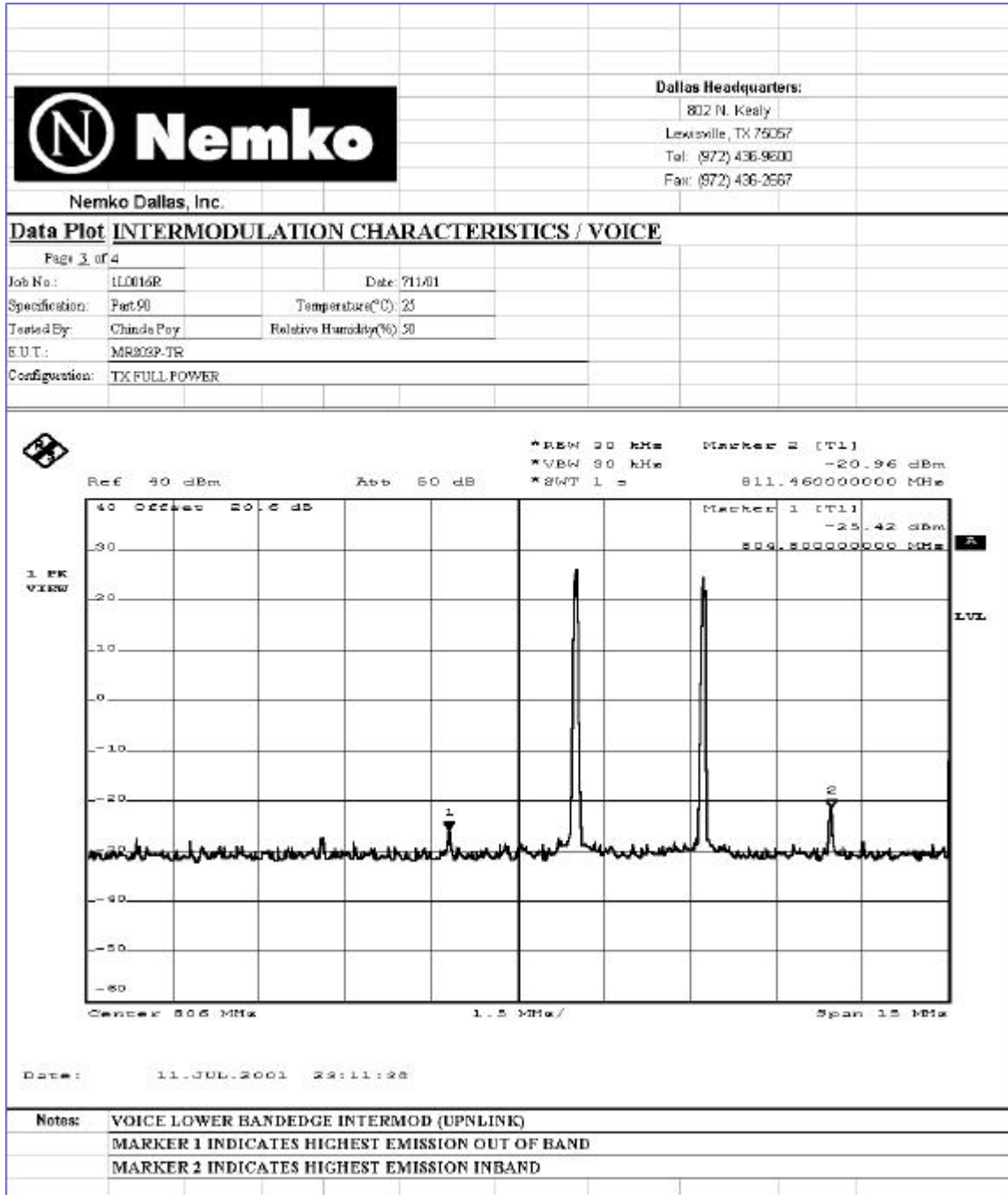
Test Data – Spurious Emissions at Antenna Terminals



EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

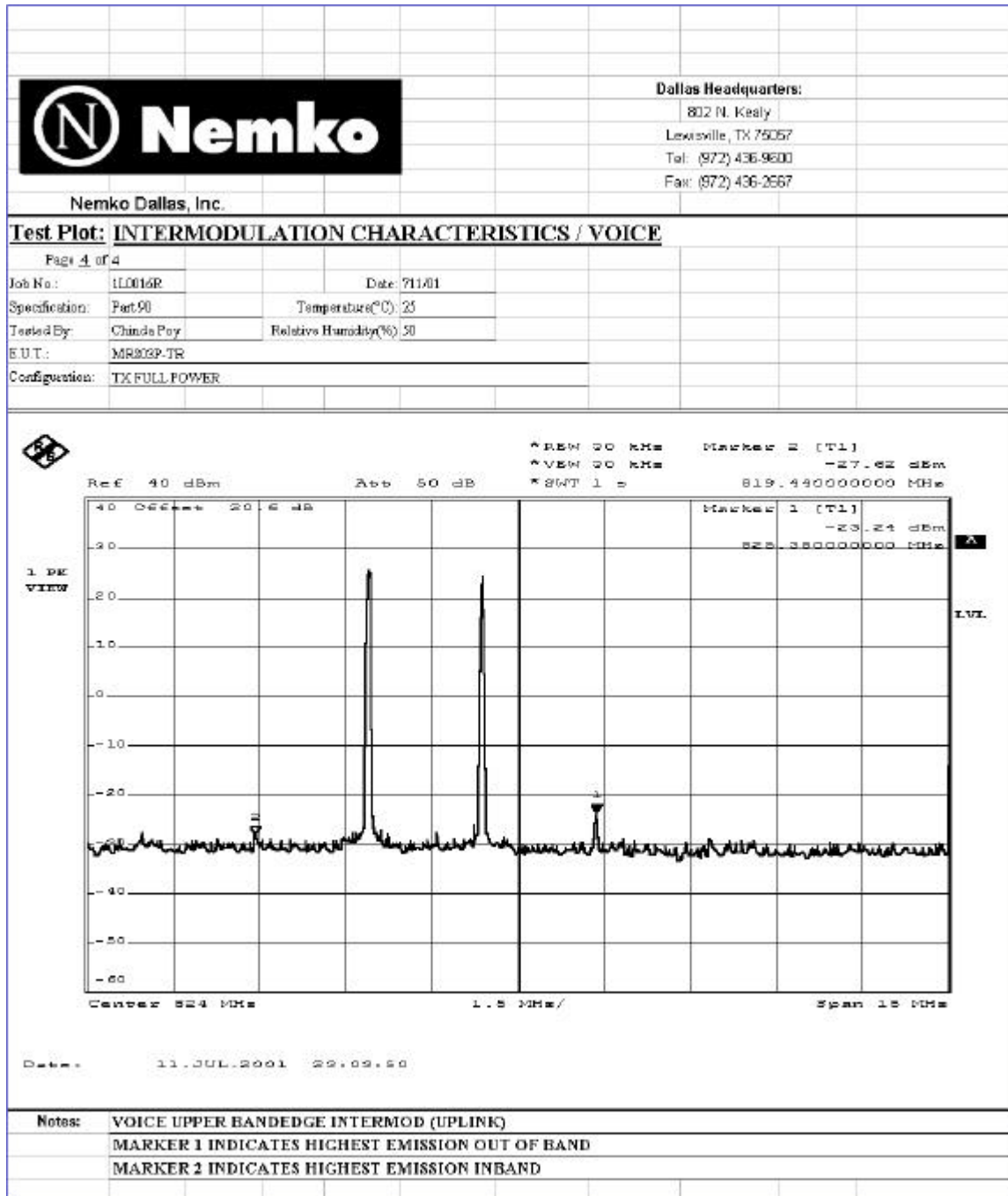
Test Data – Spurious Emissions at Antenna Terminals



EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

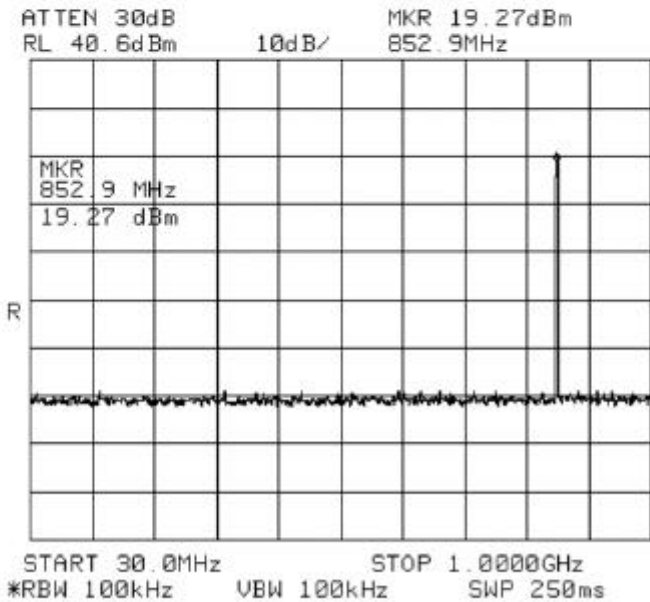
Test Data – Spurious Emissions at Antenna Terminals



EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

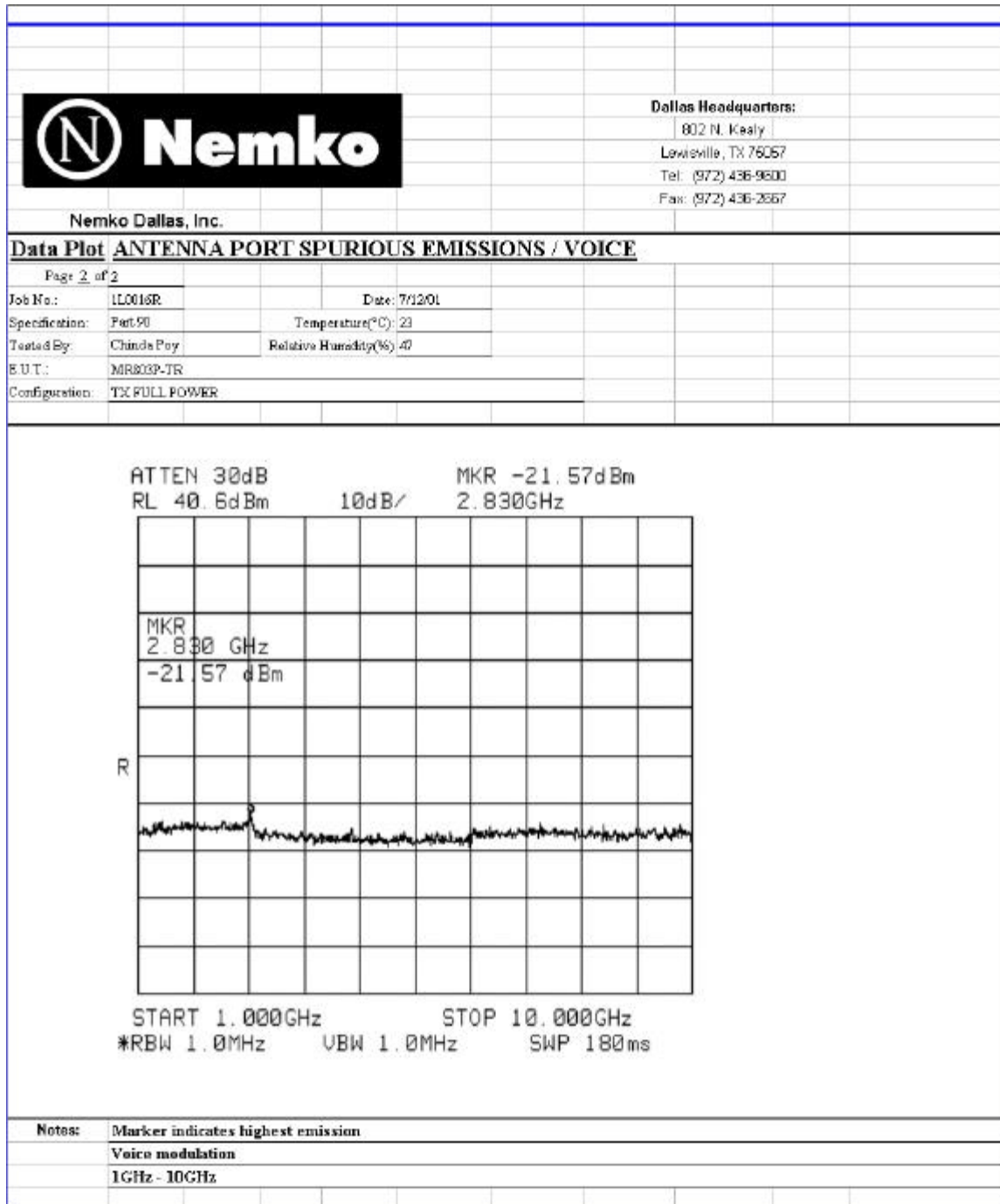
Test Data – Spurious Emissions at Antenna Terminals

		Dallas Headquarters: 802 N. Keady Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2557	
		Nemko Dallas, Inc.	
Data Plot ANTENNA PORT SPURIOUS EMISSIONS / VOICE			
Page 1 of 1		Complete ☒	
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		
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:	1604	Cable #4:	
Attenuator #2:		Mixer:	
Additional equipment used:			
Measurement Uncertainty:	+/-3.6 dB		
			
Notes: Marker indicates carrier Voice modulation 30MHz - 1GHz			

EQUIPMENT: **MR803P-TR**

PROJECT NO.: **1L0016RUS2**

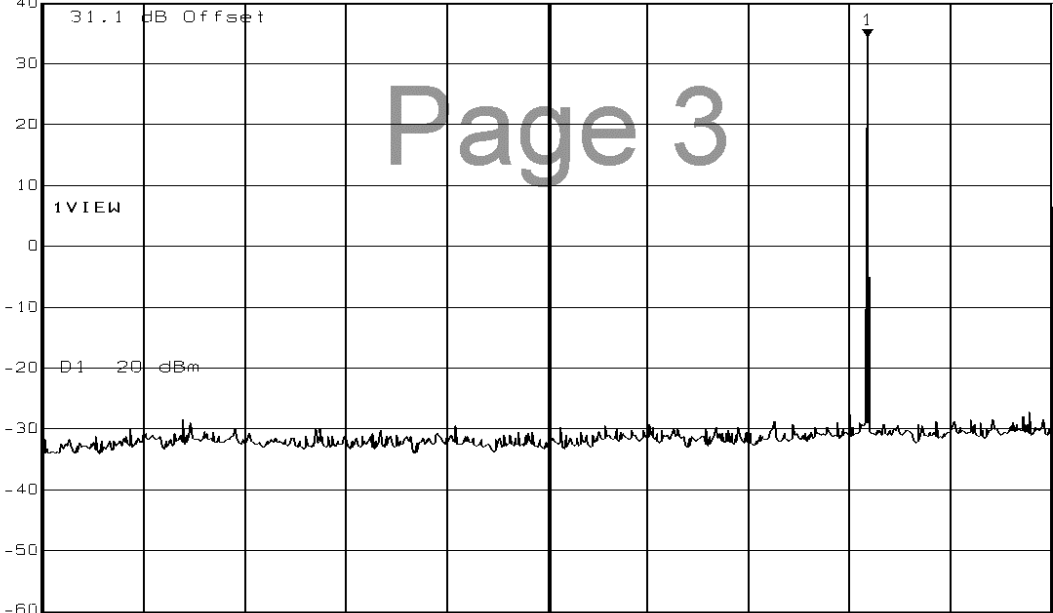
Test Data – Spurious Emissions at Antenna Terminals



EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

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 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		
 Ref Lvl 40 dBm Marker 1 [T1] 34.39 dBm 823.00000000 MHz RBW 100 kHz VBW 100 kHz RF Att 30 dB SWT 245 ms Unit dBm			
31.1 dB Offset 1 VIEW D1 20 dBm  Start 30 MHz 97 MHz Stop 1 GHz 1MA EXT			
Date: 26.JUL.2001 14:04:15			
Notes:	Marker indicates carrier Uplink		

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

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.	
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		
 Ref Lvl 30 dBm Marker 1 [T1] -32.63 dBm 1.00000000 GHz RBW 1 MHz SWT 90 ms RF Att 20 dB Unit dBm			
31.1 dB Offset 1VIEW D1 20 dBm EXT			
Start 1 GHz 900 MHz Stop 10 GHz			
Date: 26.JUL.2001 14:05:35			
Notes:	Uplink		

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FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

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PROJECT NO.: **1L0016RUS2**

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.

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

Test Data - Radiated Emissions

Field Strength of Spurious Emissions										
Page 1 of 1								Complete		x
Job No:	10016R	Date:		3/01/04				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:	501									
Location:	AC 3	RECV:		1 MHz		Measurement				
Detector Type:	Peak	VIEW:		1 MHz		Distance:		3 m		
Test Equipment Used										
Antenna:	953	Directional Coupler:								
Pre-Amp:		Cable #1:		1092						
Filter:		Cable #2:		1484						
Receiver:	1036	Cable #3:		1495						
Attenuator #1:		Cable #4:								
Attenuator #2:		Misc:								
Additional equipment used:										
Measurement Uncertainty:		+/- 3.6 dB								
Frequency (MHz)	Meas Reading (dBm)	Correc tion Factor (dB)	Pre-Amp Gain (dB)	Substitution Antenna Gain (dBd)	Direction	ERP (dBm)	ERP (mW)	Polariz	Comments	
1633	-60.0	29.9	32.8	6.4	Uplink	-56.6	0.000002	V	Noise Floor	
2448.5	-59.7	34.1	33.8	6.9	Uplink	-52.6	0.000006	V	Noise Floor	
3266	-61.0	37.1	33.6	8.1	Uplink	-49.6	0.000011	V	Noise Floor	
4082.5	-61.0	42.8	33.5	7.9	Uplink	-43.6	0.000044	V	Noise Floor	
4899	-62.0	41.2	33.7	9.2	Uplink	-45.4	0.000028	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	
2448.5	-60.0	36.7	33.8	6.9	Uplink	-50.3	0.000009	H	Noise Floor	
3266	-60.5	35.8	33.6	8.1	Uplink	-50.4	0.000009	H	Noise Floor	
4082.5	-61.7	35.2	33.5	7.9	Uplink	-51.9	0.000006	H	Noise Floor	
4899	-62.2	35.5	33.7	9.2	Uplink	-51.2	0.000008	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	0.000008	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	
5168	-62.7	36.3	33.5	9.1	Downlink	-50.6	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	
5168	-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										

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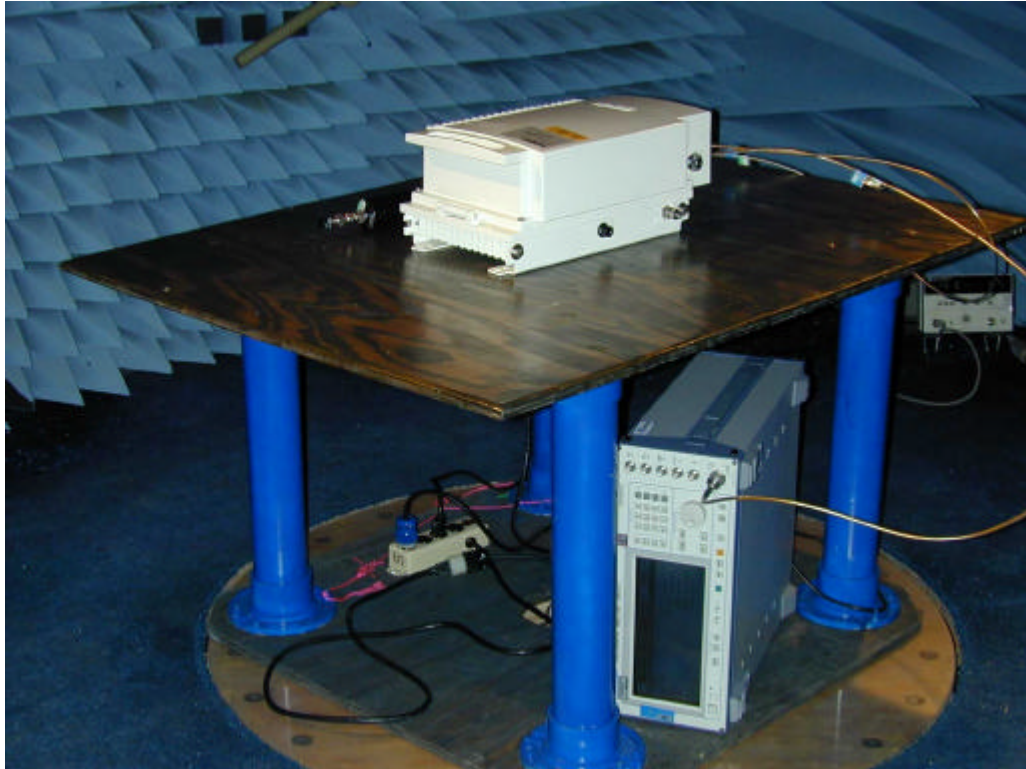
FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

EQUIPMENT: **MR803P-TR**

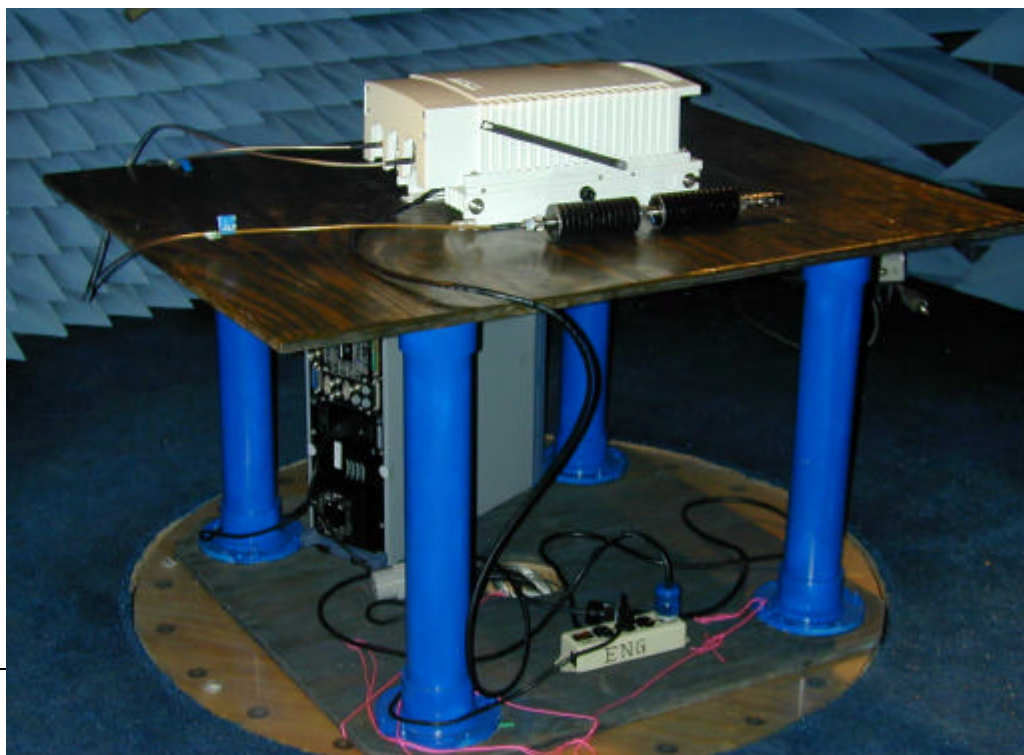
PROJECT NO.: **1L0016RUS2**

Photographs of Test Setup

FRONT VIEW



REAR VIEW



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FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

EQUIPMENT: **MR803P-TR**

PROJECT NO.: **1L0016RUS2**

Section 7. Frequency Stability

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

Test Results: Complies.

Measurement Data: See attached tabs

Not Applicable

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

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 & SCHWARZ FSP7	100124	04/09/01	04/09/02

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FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

EQUIPMENT: **MR803P-TR**

PROJECT NO.: **1L0016RUS2**

ANNEX A - TEST METHODOLOGIES

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

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

FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

PROJECT NO.: 1L0016RUS2

PARA. NO.: 2.991

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.

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FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

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

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PRIVATE LAND MOBILE REPEATER

EQUIPMENT: **MR803P-TR**

PROJECT NO.: **1L0016RUS2**

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

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FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

EQUIPMENT: MR803P-TR

PROJECT NO.: 1L0016RUS2

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	-	-	-

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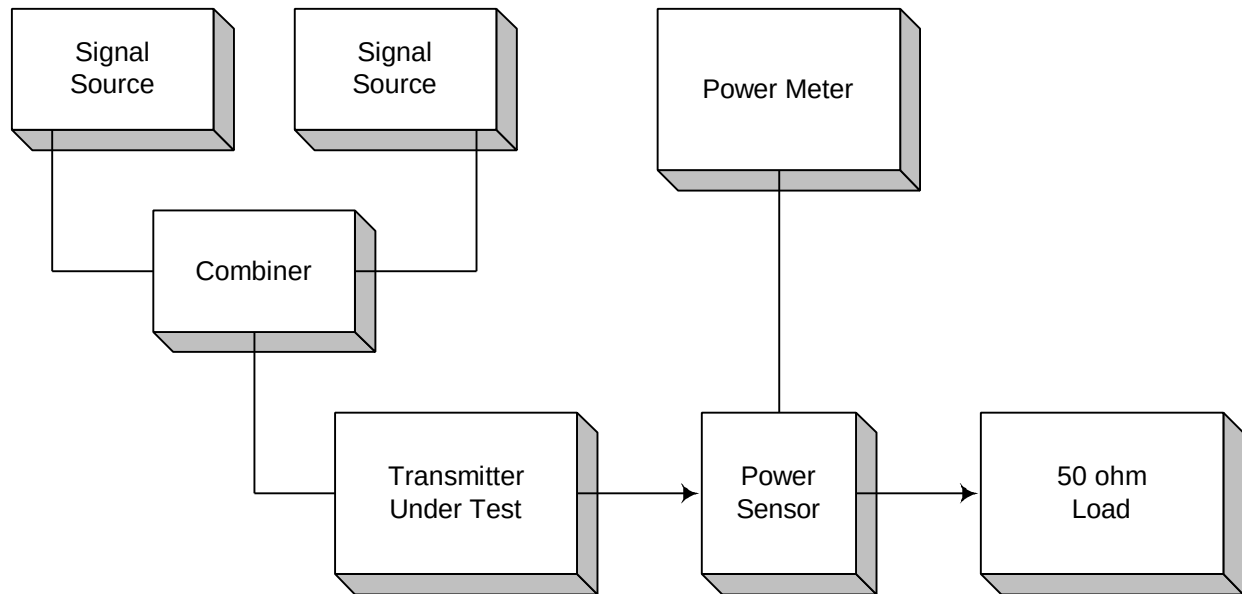
FCC PART 90, SUBPART I
PRIVATE LAND MOBILE REPEATER

EQUIPMENT: **MR803P-TR**

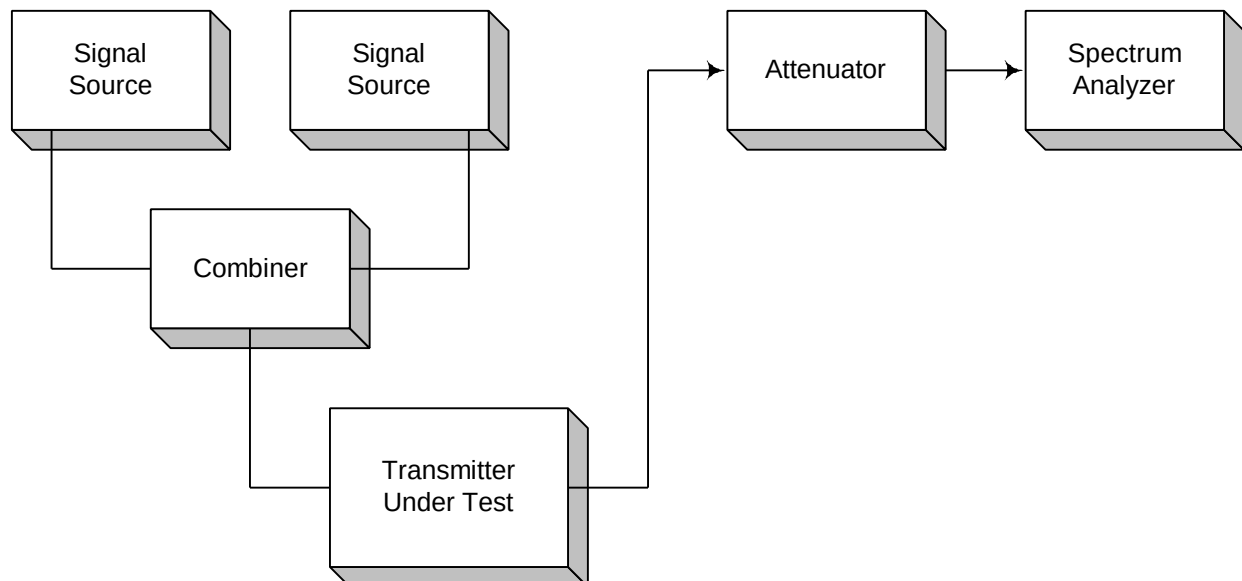
PROJECT NO.: **1L0016RUS2**

ANNEX B - TEST DIAGRAMS

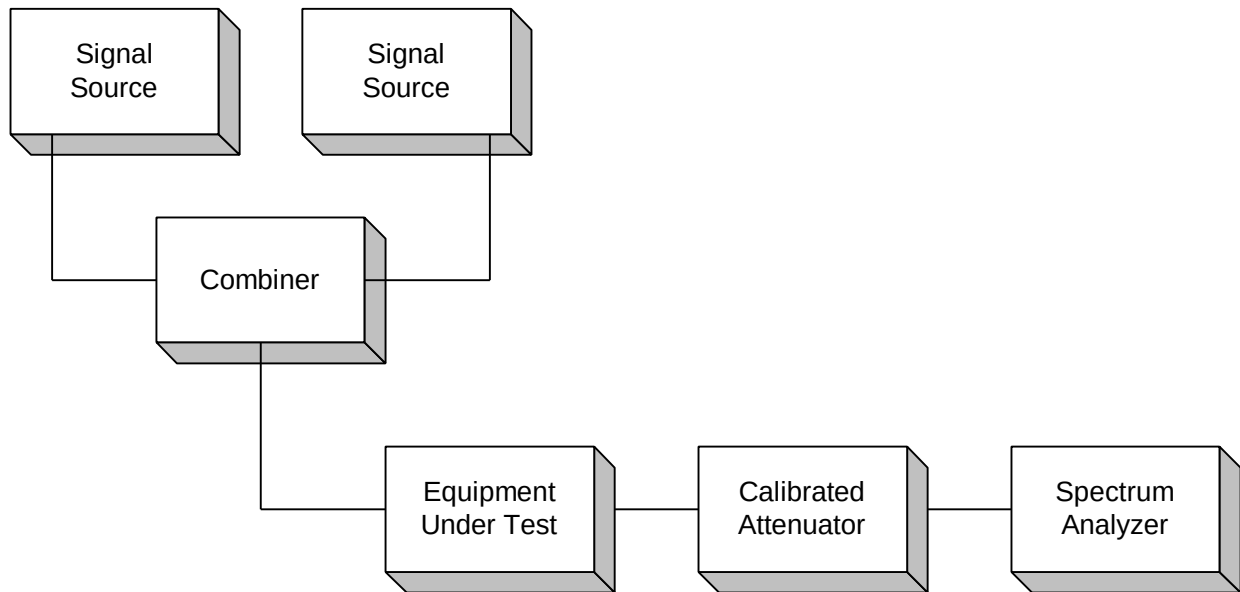
Para. No. 2.985 - R.F. Power Output



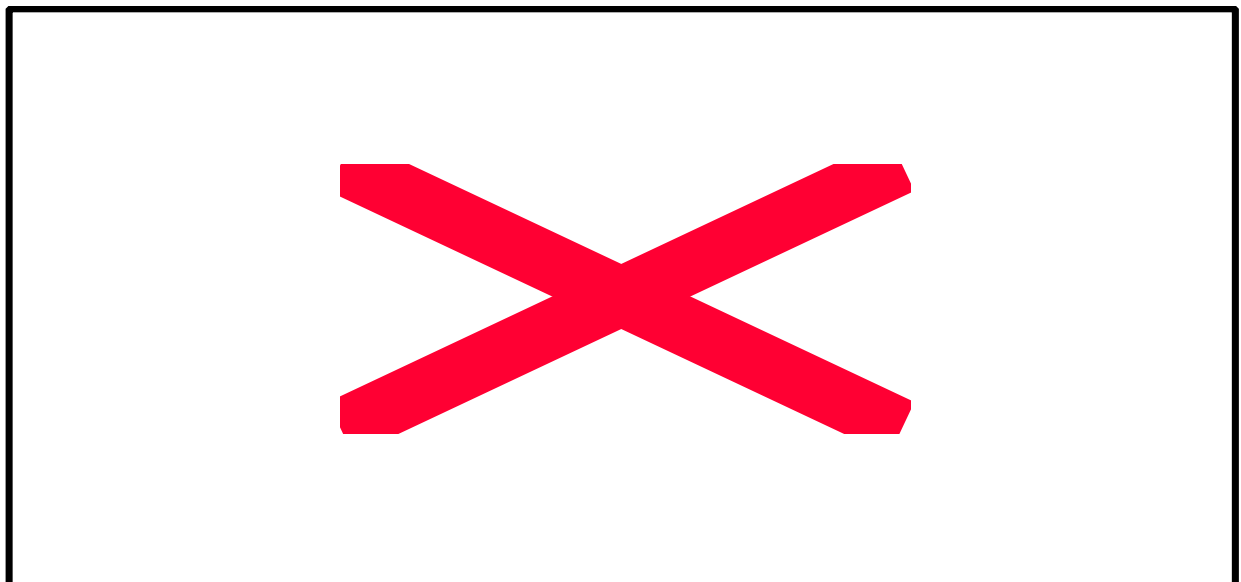
Para. No. 2.989 - Occupied Bandwidth



Para. No. 2.991 - Spurious Emissions at Antenna Terminals



Para. No. 2.993 - Field Strength of Spurious Radiation



Para. No. 2.995 - Frequency Stability

