Table of Contents

SECTION 1

RF POWER OUTPUT

2.985 (A) The RF Power measured at the output terminals:

AXATR-382-A2 4 Watts

Method: The measurement was made per TIA/EIA-603 using the following equipment::

A 50 ohm load is attached to the output terminal through a directional coupler.. The power is measured on a HP436A power meter.

SECTION 2

Modualtion Characteristics

Ref. Par. 2.987 (a, b, d) the frequency and amplitude response to audio inputs measured per TIA/ EIA 603 are shown on the following sheet

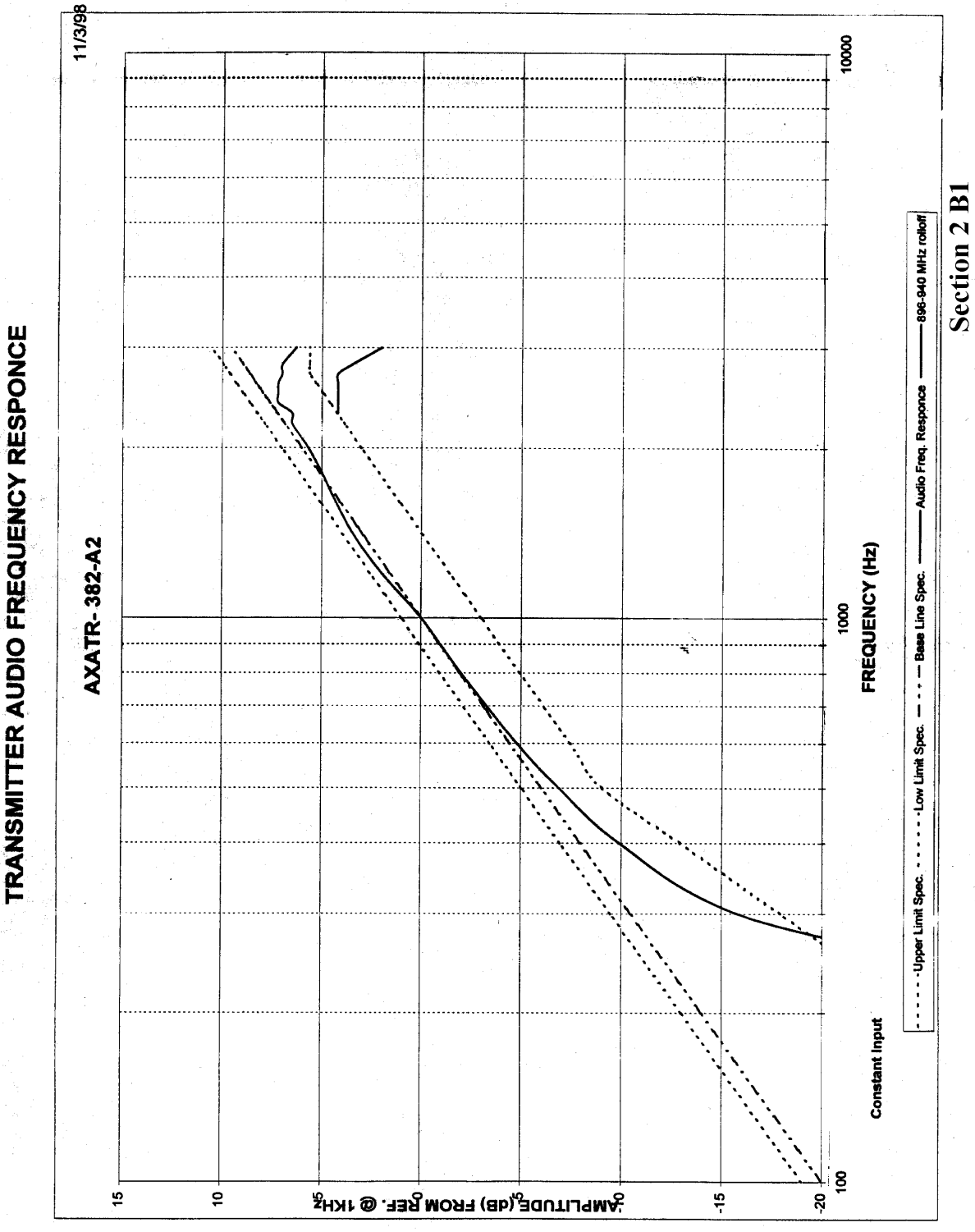
403-512 Mhz
Section 2B Audio Frequency Response(25 ,12.5kHz)

Section 2C Modulation Characteristics (25 ,12.5kHz)

Equipment used was:

Marconi Instruments Ltd. FM/AM Modulation Meter TF2300B
Hewlett Packard Audio Signal Generator 204D
Hewlett Packard Distortion Analyzer 333A

At those modulation frequencies at which the transmitter is not capable of producing 30% of system deviation, audio response is calculated from measurement of input voltage producing a lesser deviation.

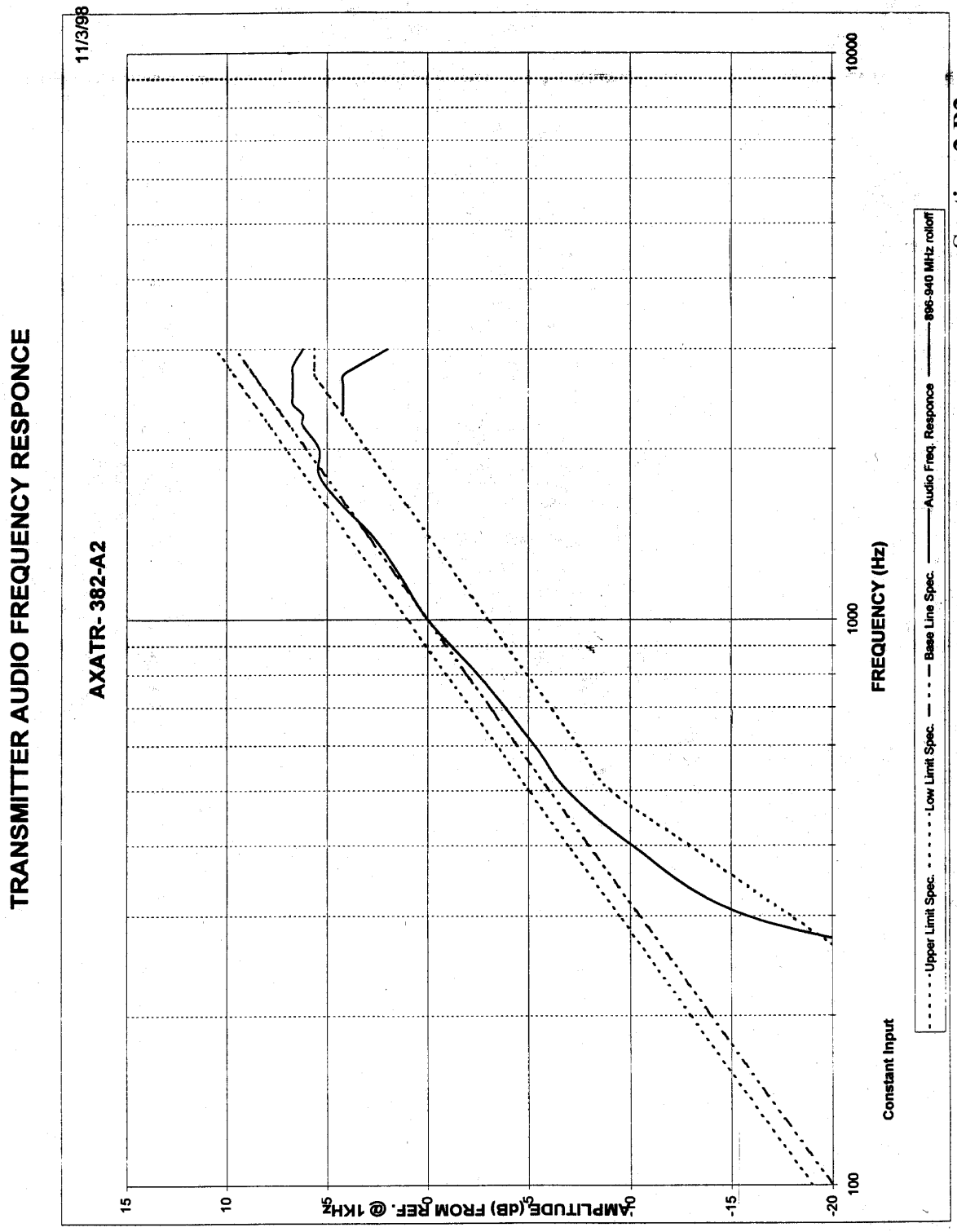

TRANSMITTER AUDIO FREQUENCY RESPONCE
11/3/98
AXATR-382-A2
AMPLITUDE (dB) FROM REF. @ 1KHz
15
10
5
0
-5
-10
-15
-20
100
1000
10000
FREQUENCY (Hz)
Constant Input
Upper Limit Spec.
Low Limit Spec.
Base Line Spec.
Audio Freq. Responce
896-940 MHz rolloff

Section 2 B1

AUDIO FREQUENCY RESPONCE

	A	B	C	D	E	F
1	Audio Frequency Responce					
2	AXATR-	382-A2	25KHZ CH SPC			
3						
4		Enter Data				
5	FREQ	AFR	UPPER SPEC	BASE LINE	LOWER SPEC	
6	100	-35.00	-19.00	-20.00	-37.00	
7	200	-32.70	-12.98	-13.98	-24.96	
8	300	-15.80	-9.46	-10.46	-17.92	
9	400	-9.90	-6.96	-7.96	-12.92	
10	500	-6.90	-5.02	-6.02	-9.02	
11	600	-4.80	-3.44	-4.44	-7.44	
12	800	-2.00	-0.94	-1.94	-4.94	
13	1000	0.00	1.00	0.00	-3.00	
14	1200	2.00	2.58	1.58	-1.42	
15	1400	3.40	3.92	2.92	-0.08	
16	1600	4.30	5.08	4.08	1.08	
17	1800	5.00	6.11	5.11	2.11	
18	2000	5.70	7.02	6.02	3.02	
19	2200	6.50	7.85	6.85	3.85	896-940 MHz rolloff
20	2300	6.50	8.23	7.23	4.23	4.20
21	2400	7.20	8.60	7.60	4.60	4.20
22	2500	7.20	8.96	7.96	4.96	4.20
23	2600	7.20	9.30	8.30	5.30	4.20
24	2700	7.00	9.63	8.63	5.63	4.20
25	2800	7.00	9.94	8.94	5.63	3.50
26	3000	6.30	10.54	9.54	5.63	2.00
27	3200					
28	3400					
29	3600					
30	3800					
31	4000					
32	4500					
33	5000					
34						
35	FORMULA AUDIO FREQ. RESPONCE					
36	20 LOG 10(DEV FREQ / DEV REF)					

Section 2 B1 Data

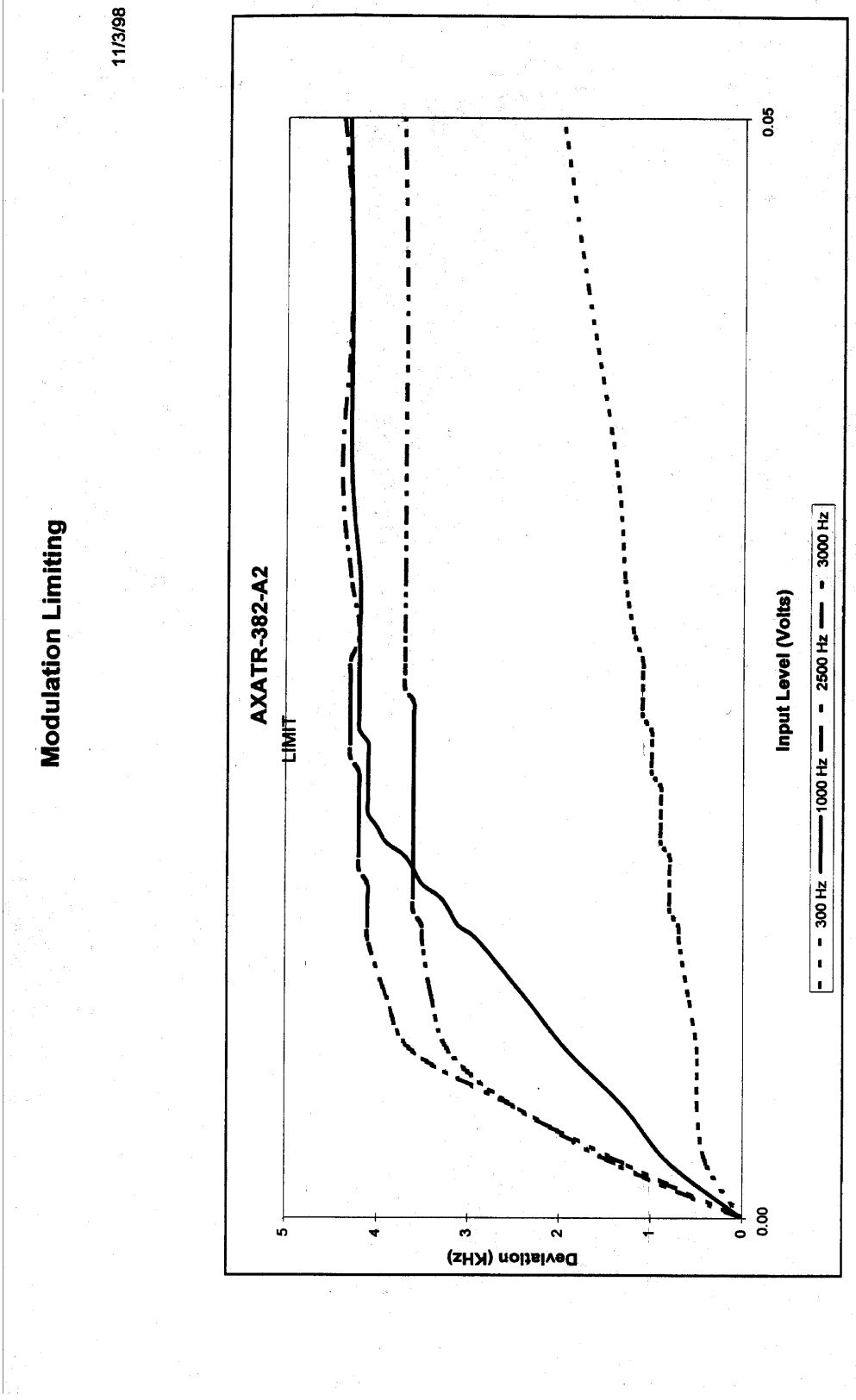

TRANSMITTER AUDIO FREQUENCY RESPONCE
11/3/98
AXATR-382-A2
AMPLITUDE (dB) FROM REF. @ 1KHz
15
10
5
0
-5
-10
-15
-20
100
1000
10000
FREQUENCY (Hz)
Constant Input
Upper Limit Spec.
Low Limit Spec.
Base Line Spec.
Audio Freq. Responce
896-940 MHz rolloff

Section 2 B2

AUDIO FREQUENCY RESPONCE

	A	B	C	D	E	F
1	Audio Frequency Responce					
2	AXATR-	382-A2	12.5 KHz CH SPC			
3						
4		Enter Data				
5	FREQ	AFR	UPPER SPEC	BASE LINE	LOWER SPEC	
6	100	-36.30	-19.00	-20.00	-37.00	
7	200	-33.20	-12.98	-13.98	-24.96	
8	300	-15.80	-9.46	-10.46	-17.92	
9	400	-10.10	-6.96	-7.96	-12.92	
10	500	-6.90	-5.02	-6.02	-9.02	
11	600	-5.30	-3.44	-4.44	-7.44	
12	800	-2.50	-0.94	-1.94	-4.94	
13	1000	0.00	1.00	0.00	-3.00	
14	1200	1.40	2.58	1.58	-1.42	
15	1400	2.70	3.92	2.92	-0.08	
16	1600	4.30	5.08	4.08	1.08	
17	1800	5.40	6.11	5.11	2.11	
18	2000	5.40	7.02	6.02	3.02	
19	2200	6.20	7.85	6.85	3.85	896-940 MHz rolloff
20	2300	6.20	8.23	7.23	4.23	4.20
21	2400	6.70	8.60	7.60	4.60	4.20
22	2500	6.70	8.96	7.96	4.96	4.20
23	2600	6.70	9.30	8.30	5.30	4.20
24	2700	6.70	9.63	8.63	5.63	4.20
25	2800	6.70	9.94	8.94	5.63	3.50
26	3000	6.20	10.54	9.54	5.63	2.00
27	3200					
28	3400					
29	3600					
30	3800					
31	4000					
32	4500					
33	5000					
34						
35	FORMULA AUDIO FREQ. RESPONCE					
36	20 LOG 10(DEV FREQ / DEV REF)					

Section 2 B2 Data

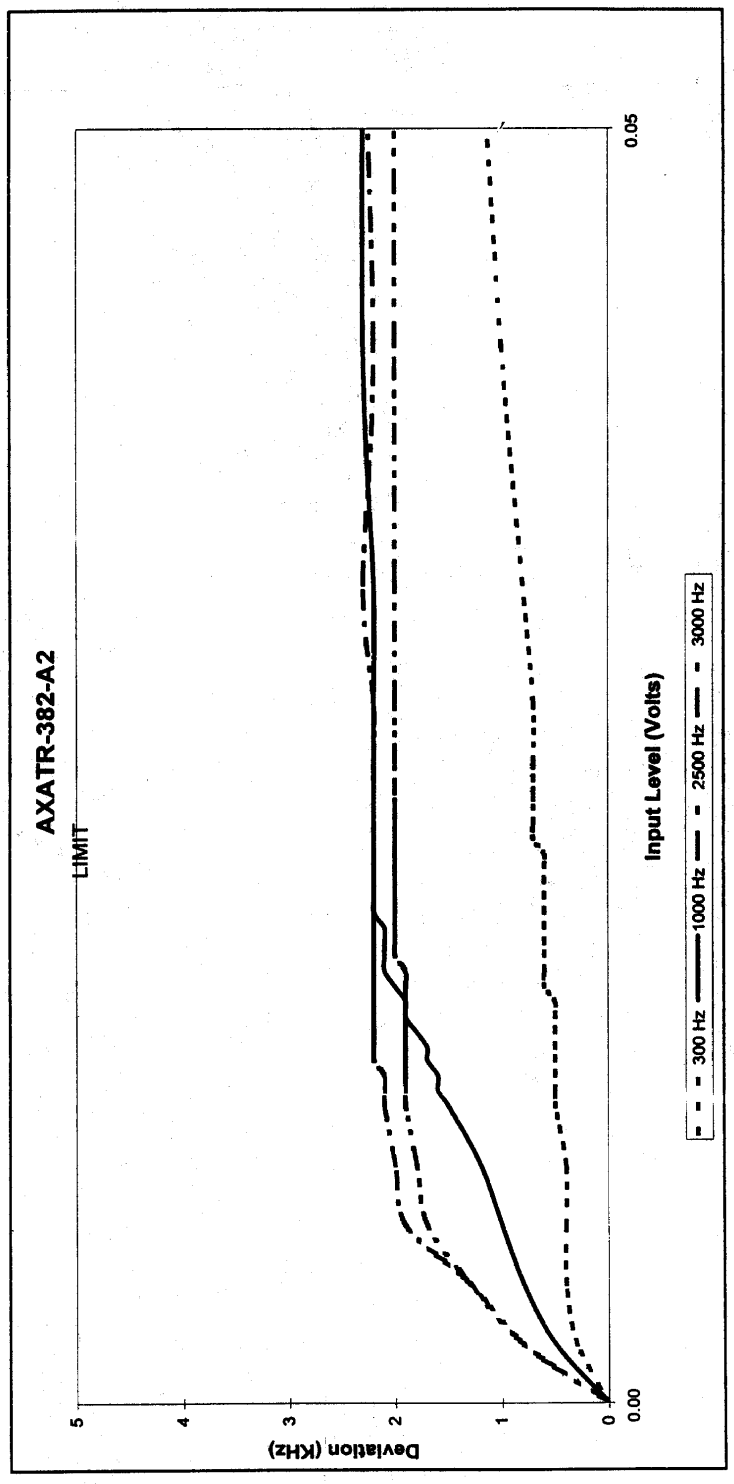

Modulation Limiting
11/3/98
AXATR-382-A2
LIMIT
Deviation (KHz)
0
1
2
3
4
5
0.00
0.05
Input Level (Volts)
300 Hz
1000 Hz
2500 Hz
3000 Hz

Section 2 C1

Modulation Limiting
Curve Data

11/3/98

	A	B	C	D	E	F	G	H
1	Modulation Limiting Curves							
2	AXATR-	382-A2	25KHz CH SPC					
3								
4	300 Hz		1000Hz		2500 Hz		3000Hz	
5	LEVEL	DEV	LEVEL	DEV	LEVEL	DEV	LEVEL	DEV
6	0	0	0	0	0	0	0	0
7	0.0025	0.4	0.0025	0.8	0.0025	1.4	0.0025	1.3
8	0.0051	0.5	0.0051	1.3	0.0051	2.5	0.0051	2.5
9	0.0076	0.5	0.0076	1.9	0.0076	3.6	0.0076	3.2
10	0.0102	0.6	0.0102	2.4	0.0102	3.9	0.0102	3.4
11	0.0127	0.7	0.0127	2.9	0.0127	4.1	0.0127	3.5
12	0.0133	0.7	0.0133	3.1	0.0133	4.1	0.0133	3.5
13	0.014	0.8	0.014	3.2	0.014	4.1	0.014	3.6
14	0.0146	0.8	0.0146	3.3	0.0146	4.1	0.0146	3.6
15	0.0152	0.8	0.0152	3.5	0.0152	4.1	0.0152	3.6
16	0.0159	0.8	0.0159	3.6	0.0159	4.2	0.0159	3.6
17	0.0165	0.8	0.0165	3.7	0.0165	4.2	0.0165	3.6
18	0.0171	0.9	0.0171	3.9	0.0171	4.2	0.0171	3.6
19	0.0178	0.9	0.0178	4	0.0178	4.2	0.0178	3.6
20	0.0184	0.9	0.0184	4.1	0.0184	4.2	0.0184	3.6
21	0.0191	0.9	0.0191	4.1	0.0191	4.2	0.0191	3.6
22	0.0197	0.9	0.0197	4.1	0.0197	4.2	0.0197	3.6
23	0.0203	1	0.0203	4.1	0.0203	4.2	0.0203	3.6
24	0.021	1	0.021	4.1	0.021	4.3	0.021	3.6
25	0.0216	1	0.0216	4.1	0.0216	4.3	0.0216	3.6
26	0.0222	1	0.0222	4.2	0.0222	4.3	0.0222	3.6
27	0.0229	1.1	0.0229	4.2	0.0229	4.3	0.0229	3.6
28	0.0235	1.1	0.0235	4.2	0.0235	4.3	0.0235	3.6
29	0.0241	1.1	0.0241	4.2	0.0241	4.3	0.0241	3.7
30	0.0248	1.1	0.0248	4.2	0.0248	4.3	0.0248	3.7
31	0.0254	1.1	0.0254	4.2	0.0254	4.3	0.0254	3.7
32	0.0267	1.2	0.0267	4.2	0.0267	4.2	0.0267	3.7
33	0.0292	1.3	0.0292	4.2	0.0292	4.3	0.0292	3.7
34	0.0343	1.4	0.0343	4.3	0.0343	4.4	0.0343	3.7
35	0.0445	1.8	0.0445	4.3	0.0445	4.3	0.0445	3.7
36	0.0648	2.5	0.0648	4.4	0.0648	4.6	0.0648	3.8
37	0.1054	3.9	0.1054	4.5	0.1054	4.5	0.1054	3.8
38	0.126	4.5	0.126	4.5	0.126	4.5	0.126	3.8
39	0.126	4.5	0.126	4.5	0.126	4.5	0.126	3.8
40								
41								
42								
43								


11/3/98
Modulation Limiting
AXATR-382-A2
LIMIT
Deviation (KHz)
0
1
2
3
4
5
0.00
0.05
Input Level (Volts)
300 Hz
1000 Hz
2500 Hz
3000 Hz

Section 2 C2

Modulation Limiting
Curve Data

11/3/98

	A	B	C	D	E	F	G	H
1	Modulation Limiting Curves							
2	AXATR-	382-A2	12.5KHz CH SPC					
3								
4	300 Hz		1000Hz		2500 Hz		3000Hz	
5	LEVEL	DEV	LEVEL	DEV	LEVEL	DEV	LEVEL	DEV
6	0	0	0	0	0	0	0	0
7	0.0023	0.3	0.0023	0.5	0.0023	0.8	0.0023	0.8
8	0.0047	0.4	0.0047	0.8	0.0047	1.3	0.0047	1.3
9	0.007	0.4	0.007	1	0.007	1.9	0.007	1.7
10	0.0094	0.4	0.0094	1.2	0.0094	2	0.0094	1.8
11	0.0117	0.5	0.0117	1.5	0.0117	2.1	0.0117	1.9
12	0.0123	0.5	0.0123	1.6	0.0123	2.1	0.0123	1.9
13	0.0129	0.5	0.0129	1.6	0.0129	2.1	0.0129	1.9
14	0.0135	0.5	0.0135	1.7	0.0135	2.2	0.0135	1.9
15	0.014	0.5	0.014	1.7	0.014	2.2	0.014	1.9
16	0.0146	0.5	0.0146	1.8	0.0146	2.2	0.0146	1.9
17	0.0152	0.5	0.0152	1.9	0.0152	2.2	0.0152	1.9
18	0.0158	0.5	0.0158	1.9	0.0158	2.2	0.0158	1.9
19	0.0164	0.6	0.0164	2	0.0164	2.2	0.0164	1.9
20	0.017	0.6	0.017	2.1	0.017	2.2	0.017	1.9
21	0.0176	0.6	0.0176	2.1	0.0176	2.2	0.0176	2
22	0.0181	0.6	0.0181	2.1	0.0181	2.2	0.0181	2
23	0.0187	0.6	0.0187	2.1	0.0187	2.2	0.0187	2
24	0.0193	0.6	0.0193	2.2	0.0193	2.2	0.0193	2
25	0.0199	0.6	0.0199	2.2	0.0199	2.2	0.0199	2
26	0.0205	0.6	0.0205	2.2	0.0205	2.2	0.0205	2
27	0.0211	0.6	0.0211	2.2	0.0211	2.2	0.0211	2
28	0.0216	0.6	0.0216	2.2	0.0216	2.2	0.0216	2
29	0.0222	0.7	0.0222	2.2	0.0222	2.2	0.0222	2
30	0.0228	0.7	0.0228	2.2	0.0228	2.2	0.0228	2
31	0.0234	0.7	0.0234	2.2	0.0234	2.2	0.0234	2
32	0.024	0.7	0.024	2.2	0.024	2.2	0.024	2
33	0.0252	0.7	0.0252	2.2	0.0252	2.2	0.0252	2
34	0.0275	0.7	0.0275	2.2	0.0275	2.2	0.0275	2
35	0.0322	0.8	0.0322	2.2	0.0322	2.3	0.0322	2
36	0.0415	1	0.0415	2.3	0.0415	2.2	0.0415	2
37	0.0603	1.3	0.0603	2.3	0.0603	2.3	0.0603	2
38	0.0977	2	0.0977	2.3	0.0977	2.3	0.0977	2
39	0.117	2.3	0.117	2.3	0.117	2.3	0.117	2
40								
41								
42								
43								

Section 2 C2 Data

SECTION 3

OCCUPIED BANDWIDTH

Per 2.989 (c, 1) the measurements were made per TIA/EIA 603.

455..025 **Mhz**

SECTION 3 B1, B2. C1, C2 (25 kHz, 50 & 150 kHz spans, Voice)

SECTION 3 B3, B4, C3, C4 (12.5 kHz, 50 & 150 kHz spans, Voice)

SECTION 3

OCCUPIED BANDWIDTH

(FOR 25 kHz CHANNELIZATION)

Method of Measurement Per 2.989 (c,1) Data on Occupied Bandwidth is presented in the form of a spectrum analyzer plot which illustrates the transmitter sidebands. A plot is taken of the carrier sideband modulated with a 2500 Hz tone at a level 16 dB greater than that required to produce 50 percent modulation. (The spectrum analyzer grid indicates the reference level of the carrier unmodulated in all exhibits.)

SECTION B1,C1,B2,C2 Telephony

Bn = 2M + 2DK where

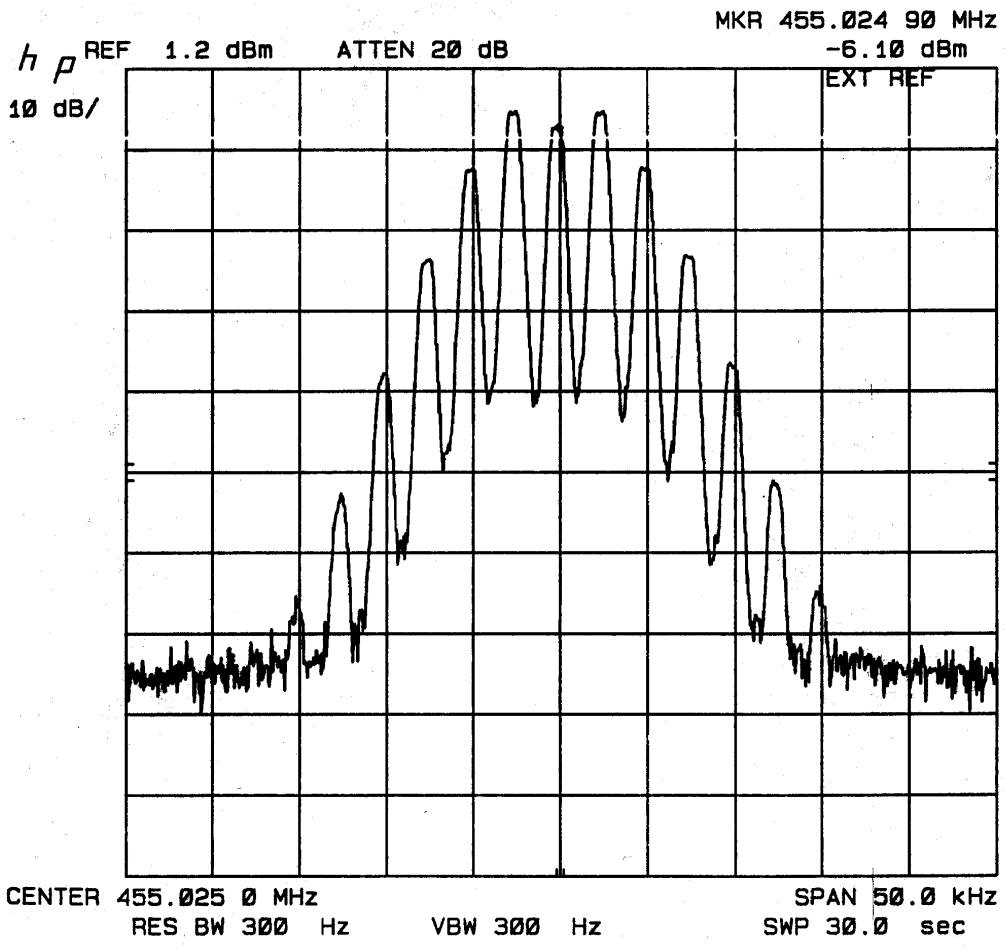
M = 3000 Hz
D = 4400Hz
K= 1(assumed)

Bn = 144000 Hz
Therefore, Emission Designator = 14K4F3E

APPLICANT: Ericsson Inc. ID NO. AXATR-382-A2

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



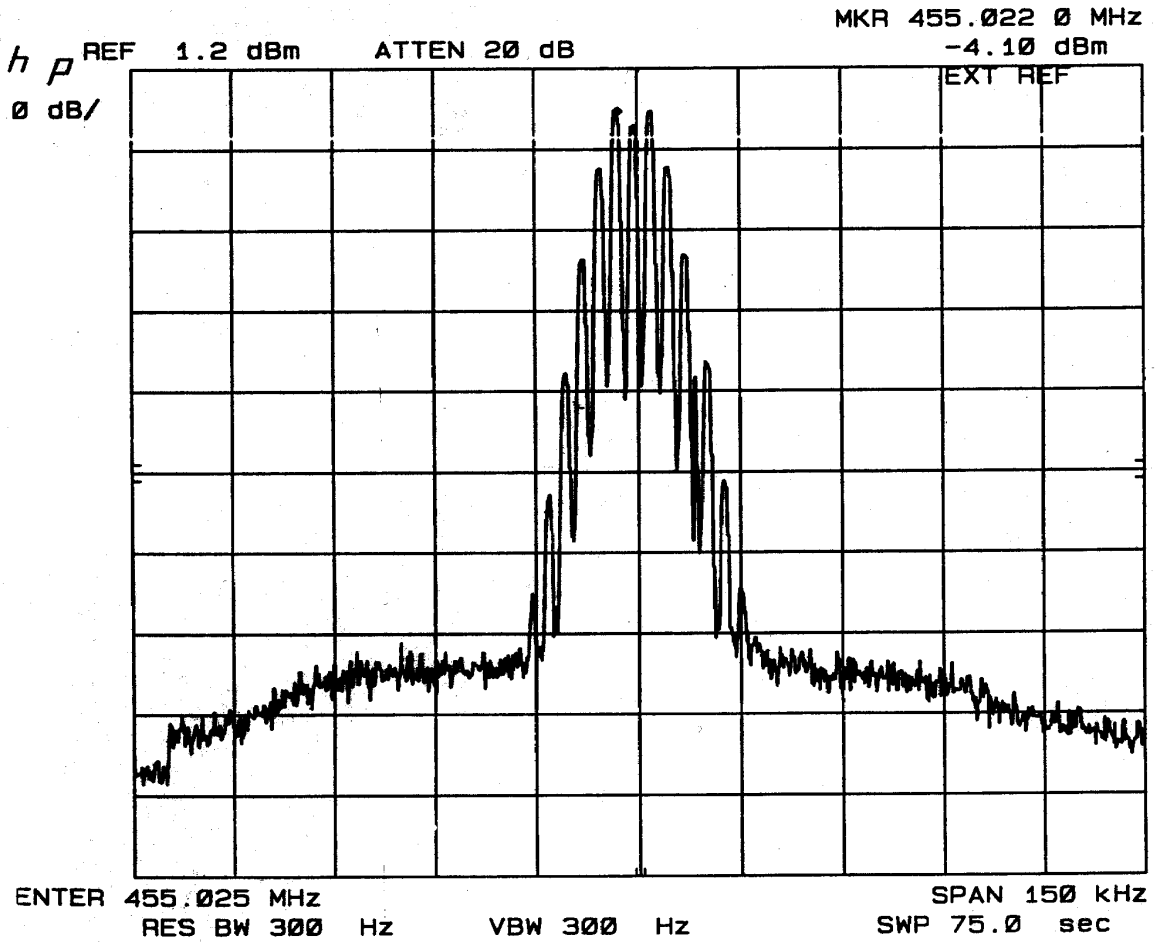
Referenced to the Unmodulated Carrier
Modulated with 2500 Hz
Analyzer: Vertical = 10 dB/Div.

Section 3 B1

APPLICANT: Ericsson Inc. ID NO. AXATR-382-A2

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



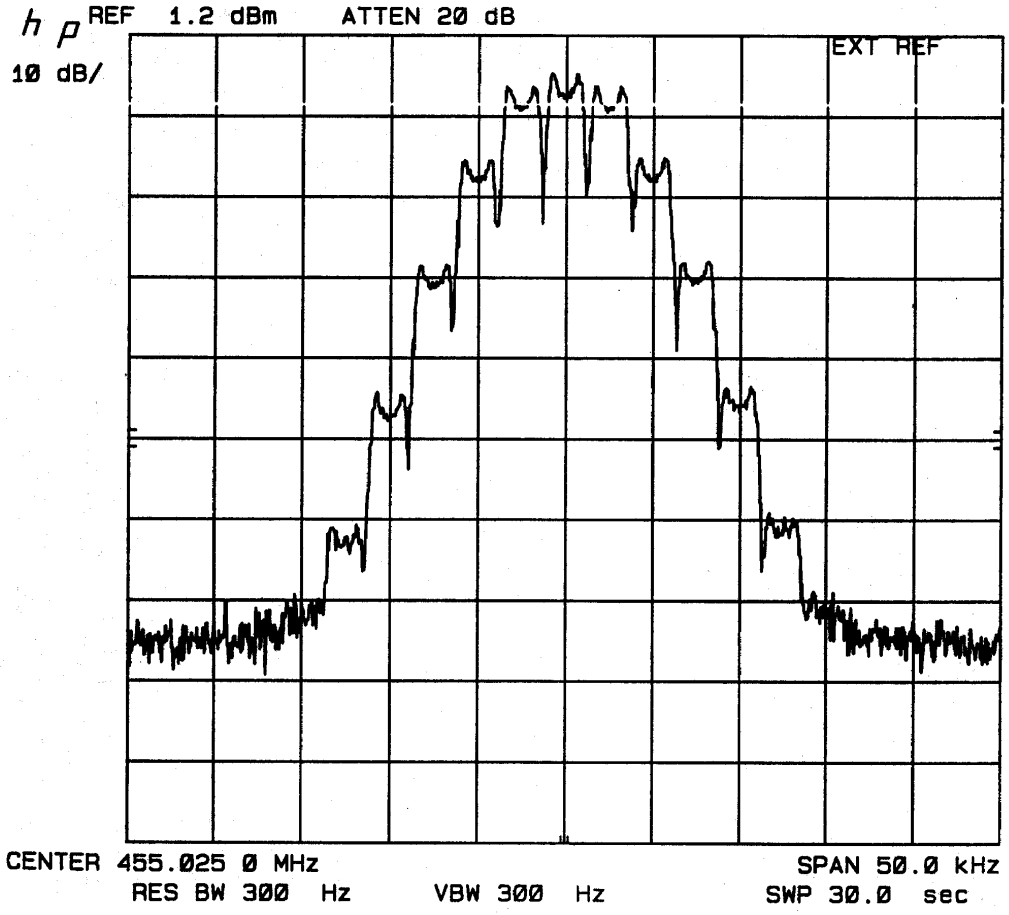
eferenced to the Unmodulated Carrier
odulated with 2500 Hz
nalyzer: Vertical = 10 dB/Div.

Section 3 B2 Data

APPLICANT: Ericsson Inc. ID NO. AXATR-382-A2

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



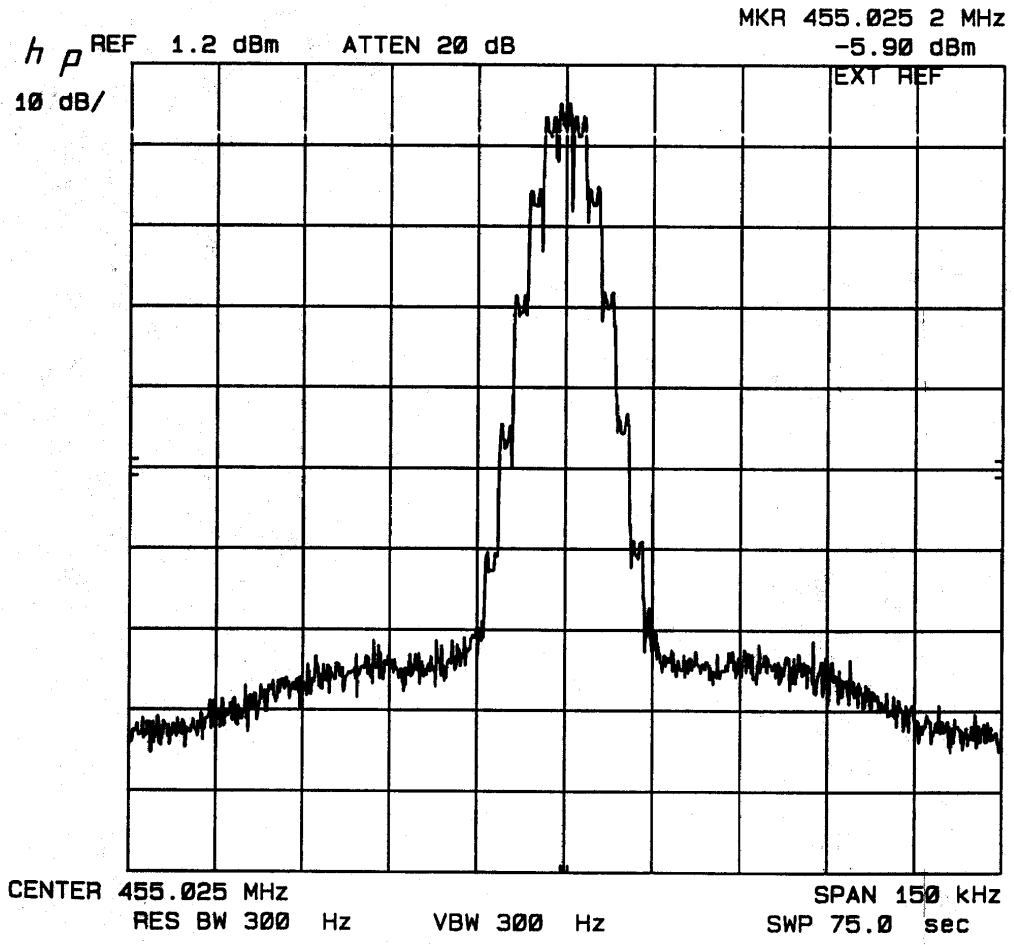
Referenced to the Unmodulated Carrier
Modulated with 2500 Hz + 150 BPS
Analyzer: Vertical = 10 dB/Div.

Section 3 C1

APPLICANT: Ericsson Inc. ID NO. AXATR-382-A2

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



Referenced to the Unmodulated Carrier
Modulated with 2500 HZ + 150 BPS
Analyzer: Vertical = 10 dB/Div.

Section 3 C2

SECTION 3

OCCUPIED BANDWIDTH

(FOR 12.5 kHz CHANNELIZATION)

Method of Measurement Per Data on Occupied Bandwidth is presented in the form of a spectrum analyzer plot which illustrates the transmitter sidebands. A plot is taken of the carrier sideband modulated with a 2500 Hz tone at a level 16 dB greater than that required to produce 50 percent modulation. (The spectrum analyzer grid indicates the reference level of the carrier unmodulated in all exhibits.)

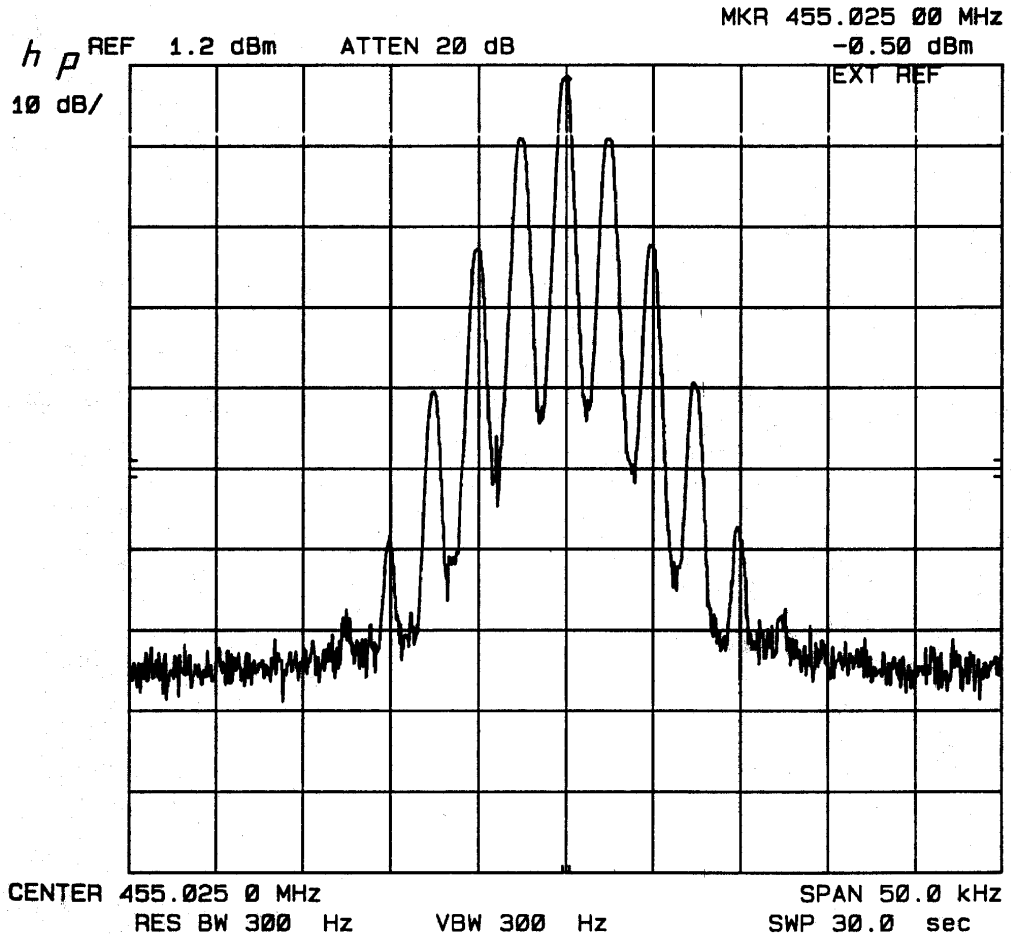
Section B3,B4,C3,C4 Bn = 2M+2DK where M = 3000 Hz
Voice D = 2200Hz
K = 1 (assumed)

Bn =10400Hz
Therefore, Emission Designator =10K4F3E

APPLICANT: Ericsson Inc. ID NO. AXATR-382-A2

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



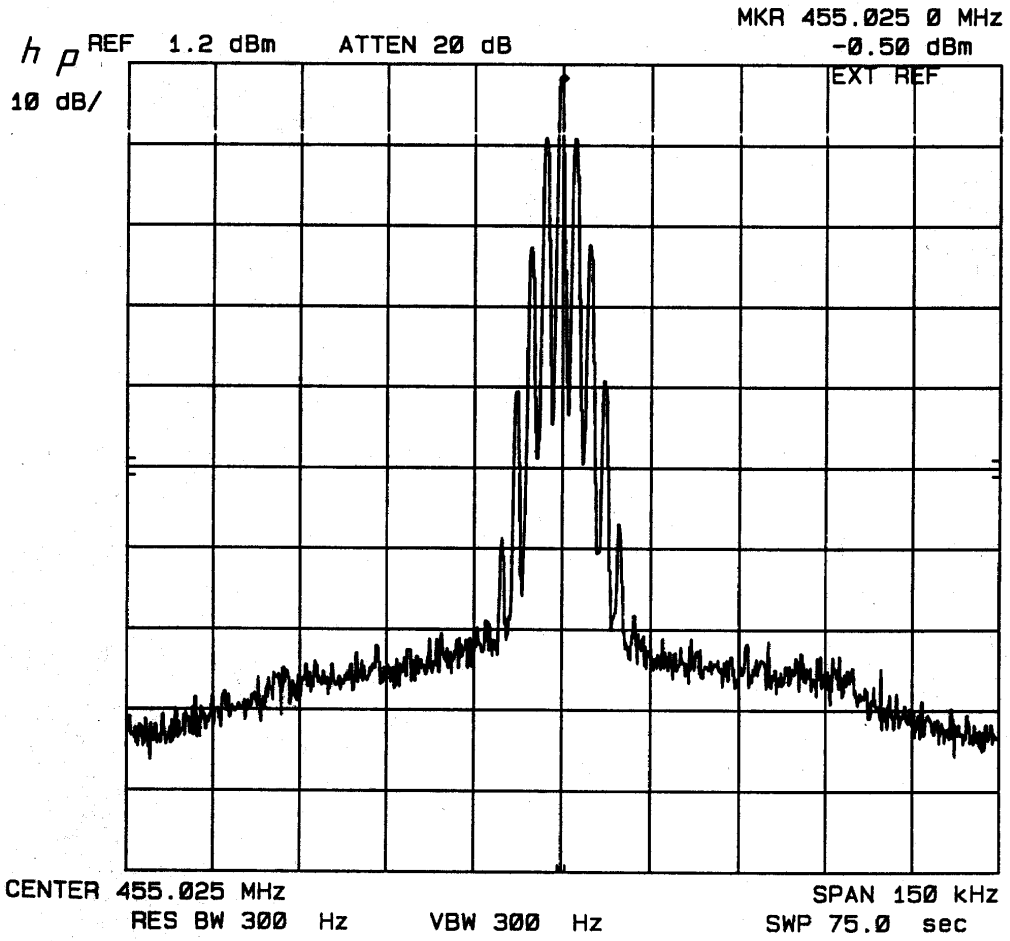
Referenced to the Unmodulated Carrier
Modulated with 2500 Hz
Analyzer: Vertical = 10 dB/Div.

Section 3 B3

APPLICANT: Ericsson Inc. ID NO. AXATR-382-A2

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



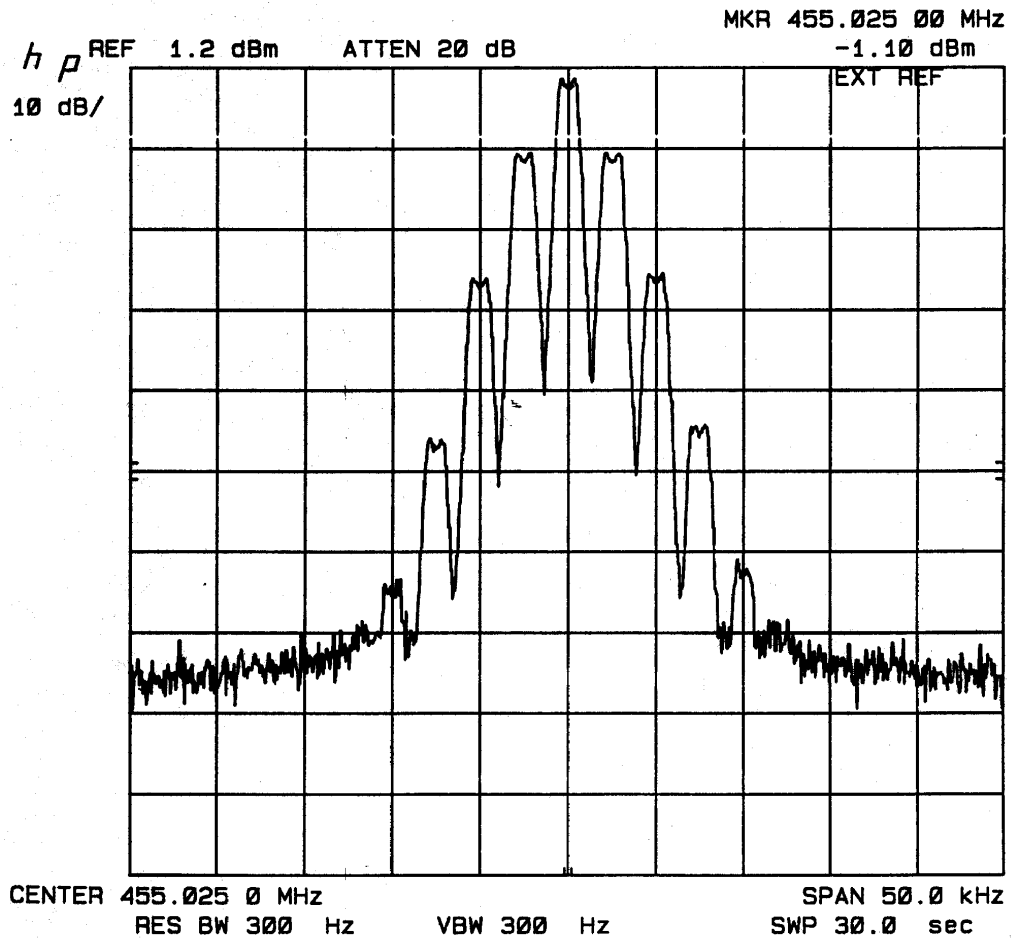
Referenced to the Unmodulated Carrier
Modulated with 2500 Hz
Analyzer: Vertical = 10 dB/Div.

Section 3 B4

APPLICANT: Ericsson Inc. ID NO. AXATR-382-A2

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



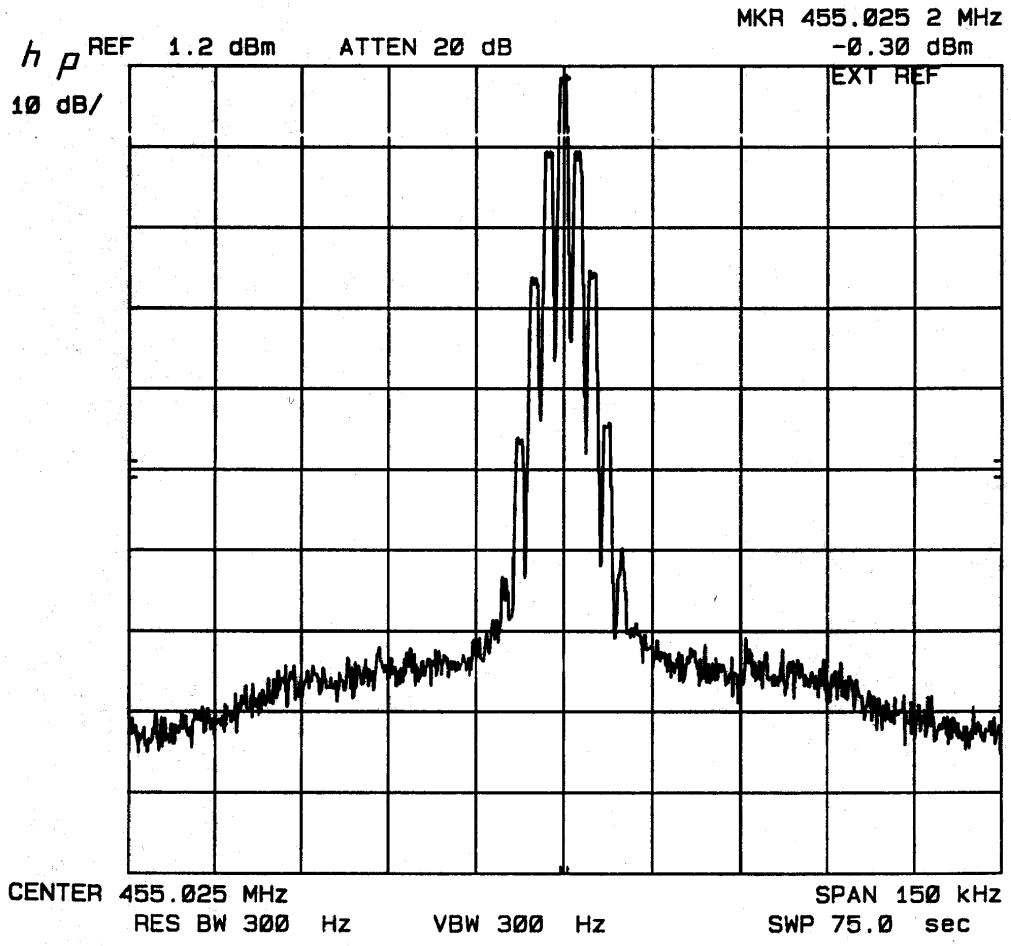
Referenced to the Unmodulated Carrier
Modulated with 2500 Hz + 150 BPS
Analyzer: Vertical = 10 dB/Div.

Section 3 C3

APPLICANT: Ericsson Inc. ID NO. AXATR-382-A2

OCCUPIED BANDWIDTH

Modulation Sideband Spectrum



Referenced to the Unmodulated Carrier
Modulated with 2500 Hz + 150 BPS
Analyzer: Vertical = 10 dB/Div.

Section 3 C4

SECTION 4

SPURIOUS EMISSIONS

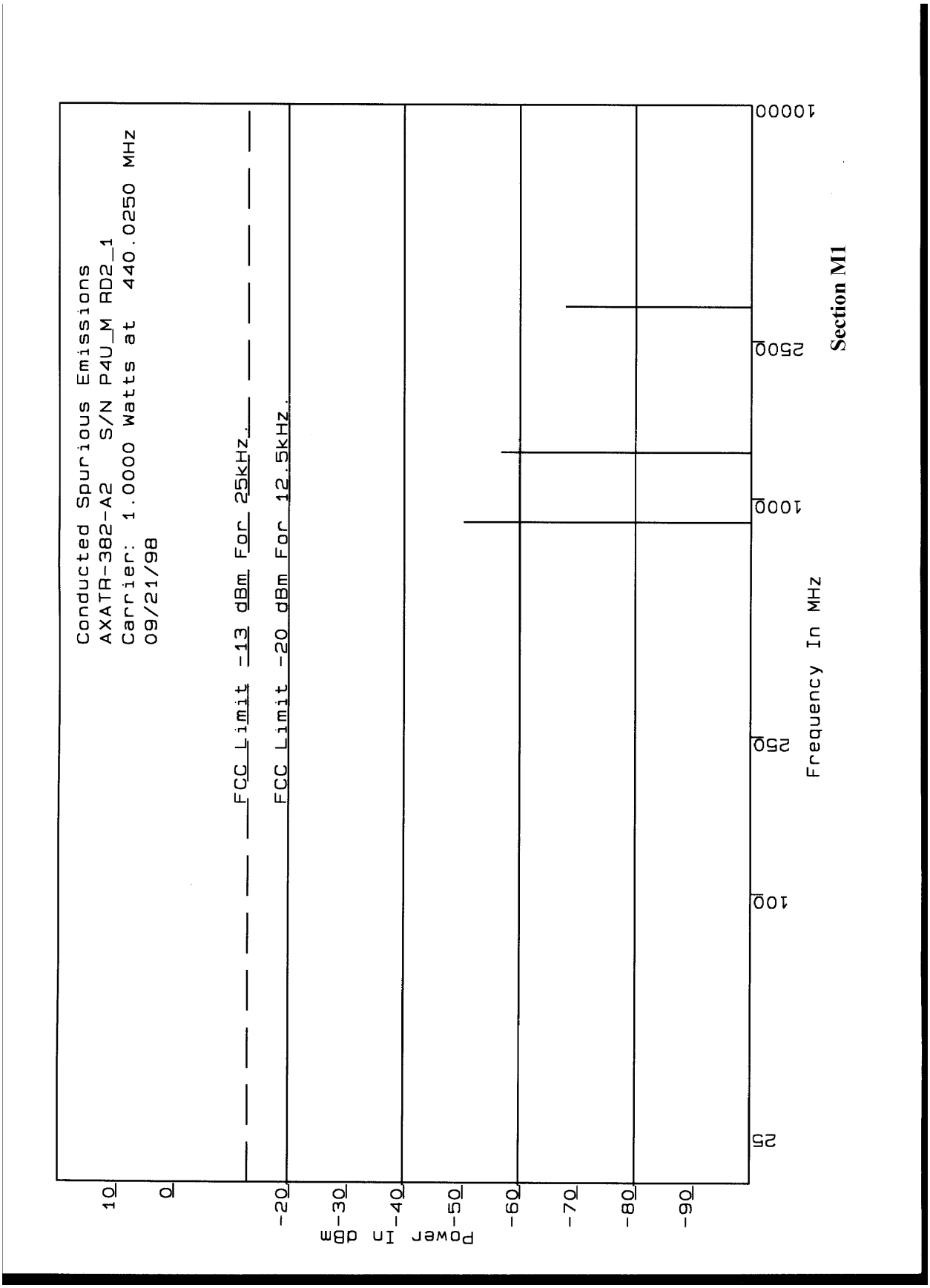
Reference 2.993 field strength of spurious radiation was measured on our three meter range. The site and equipment are described in the site description and attenuation measurements for the Ericsson Inc. three meter radiation site #2 filed with the FCC in Columbia, Maryland, in November of 1990. The measurement procedure is per TIA/EIA 603, but done on a three meter test site. Results are shown on the following exhibits

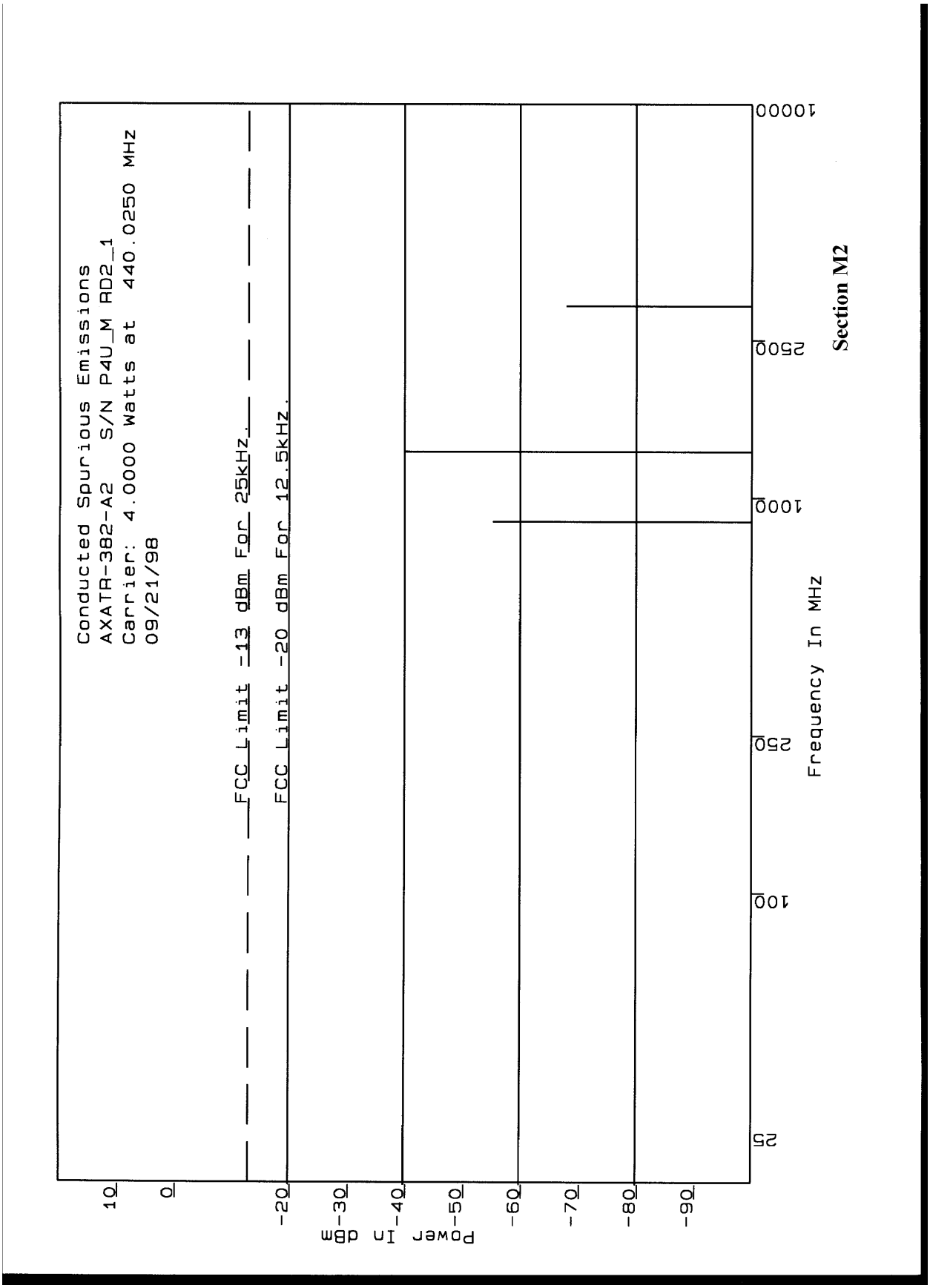
Results are as shown in the following Sections

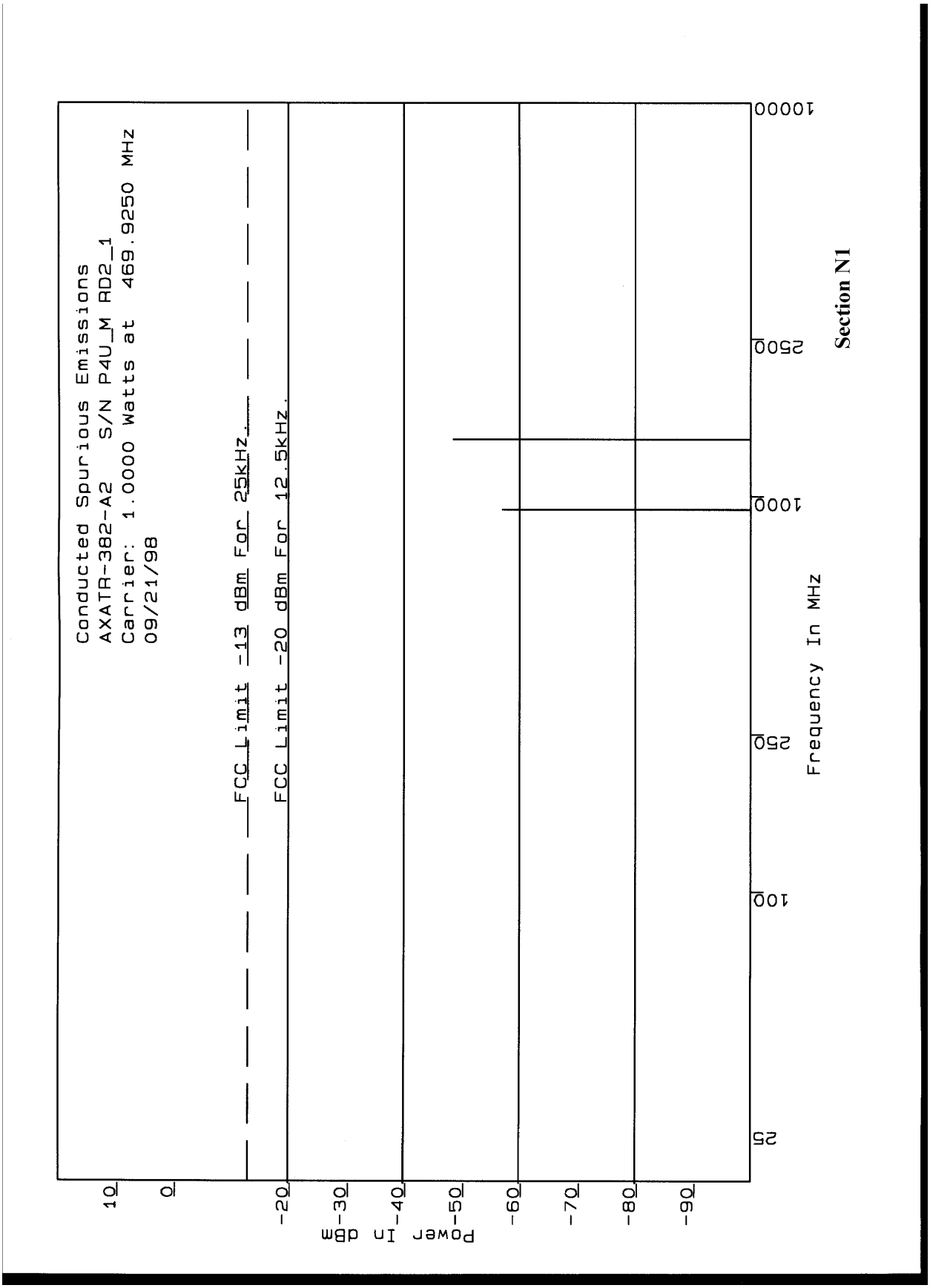
Tx Radiated Emissions		
Sections	Frequency Mhz	Power in Watts
M1	440.025	1
M2	440.025	4
N1	469.925	1
N2	469.925	4

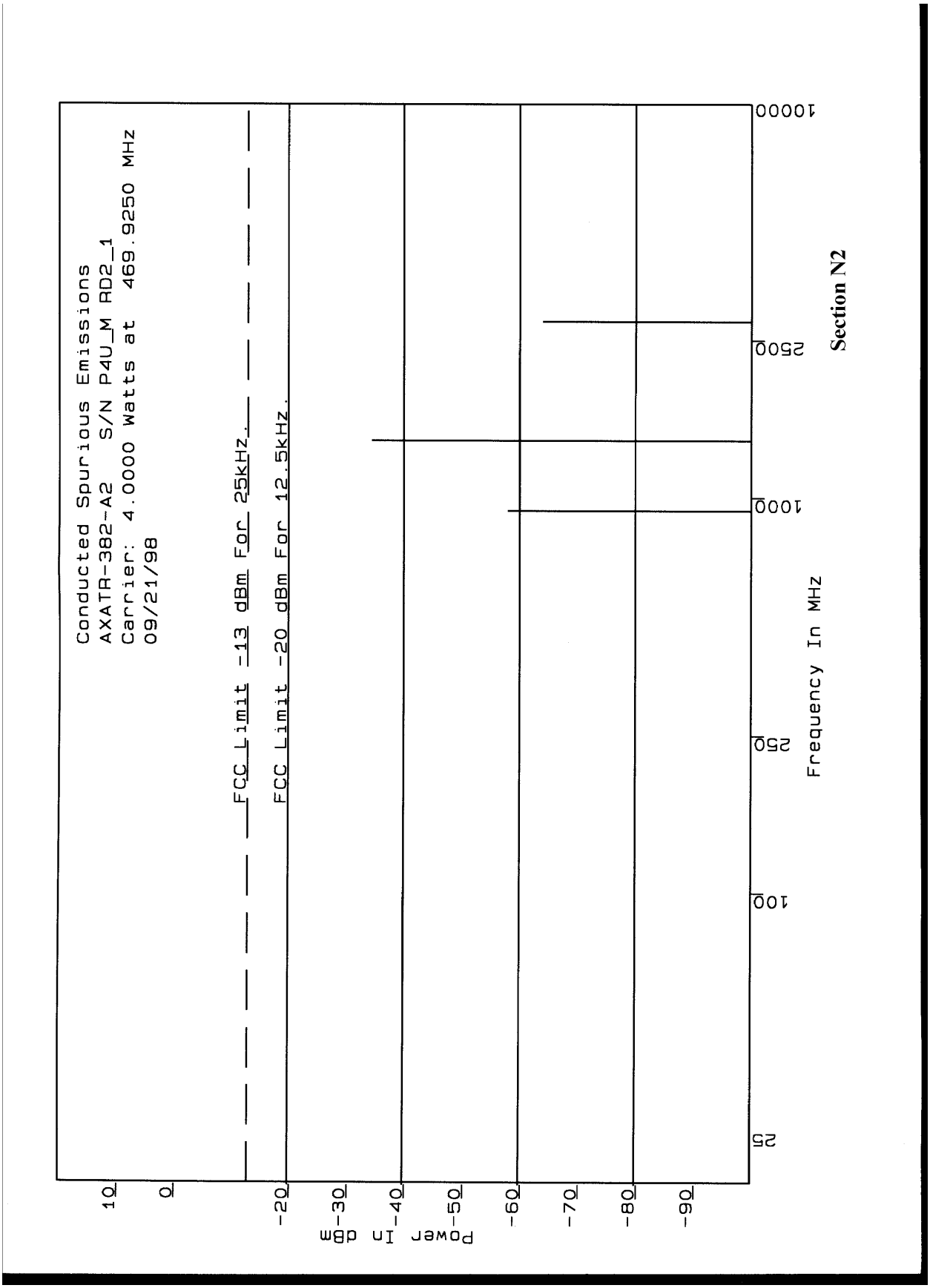
Equipment used was: Rohde & Swarz ESMI.

*SAME AS FOR 25 OR 12.5 kHz modes.


Conducted Spurious Emissions
AXATR-382-A2 S/N P4U_M RD2_1
Carrier: 1.0000 Watts at 440.0250 MHz
09/21/98
FCC Limit -13 dBm For 25kHz
FCC Limit -20 dBm For 12.5kHz
Power In dBm
10
0
-20
-30
-40
-50
-60
-70
-80
-90
25
100
250
1000
2500
10000
Frequency In MHz
Section M1


Conducted Spurious Emissions
AXATR-382-A2 S/N P4U_M RD2_1
Carrier: 4.0000 Watts at 440.0250 MHz
09/21/98
FCC Limit -13 dBm For 25kHz.
FCC Limit -20 dBm For 12.5kHz.
Power In dBm
10
0
-20
-30
-40
-50
-60
-70
-80
-90
25
100
250
1000
2500
10000
Frequency In MHz
Section M2


Conducted Spurious Emissions
AXATR-382-A2 S/N P4U_M RD2_1
Carrier: 1.0000 Watts at 469.9250 MHz
09/21/98
FCC Limit -13 dBm For 25kHz.
FCC Limit -20 dBm For 12.5kHz.
Power In dBm
10
0
-20
-30
-40
-50
-60
-70
-80
-90
25
100
250
1000
2500
10000
Frequency In MHz
Section N1


Conducted Spurious Emissions
AXATR-382-A2 S/N P4U_M RD2_1
Carrier: 4.0000 Watts at 469.9250 MHz
09/21/98
FCC Limit -13 dBm For 25kHz.
FCC Limit -20 dBm For 12.5kHz.
Power In dBm
10
0
-20
-30
-40
-50
-60
-70
-80
-90
25
100
250
1000
2500
10000
Frequency In MHz
Section N2

SECTION 4

SPURIOUS EMISSIONS

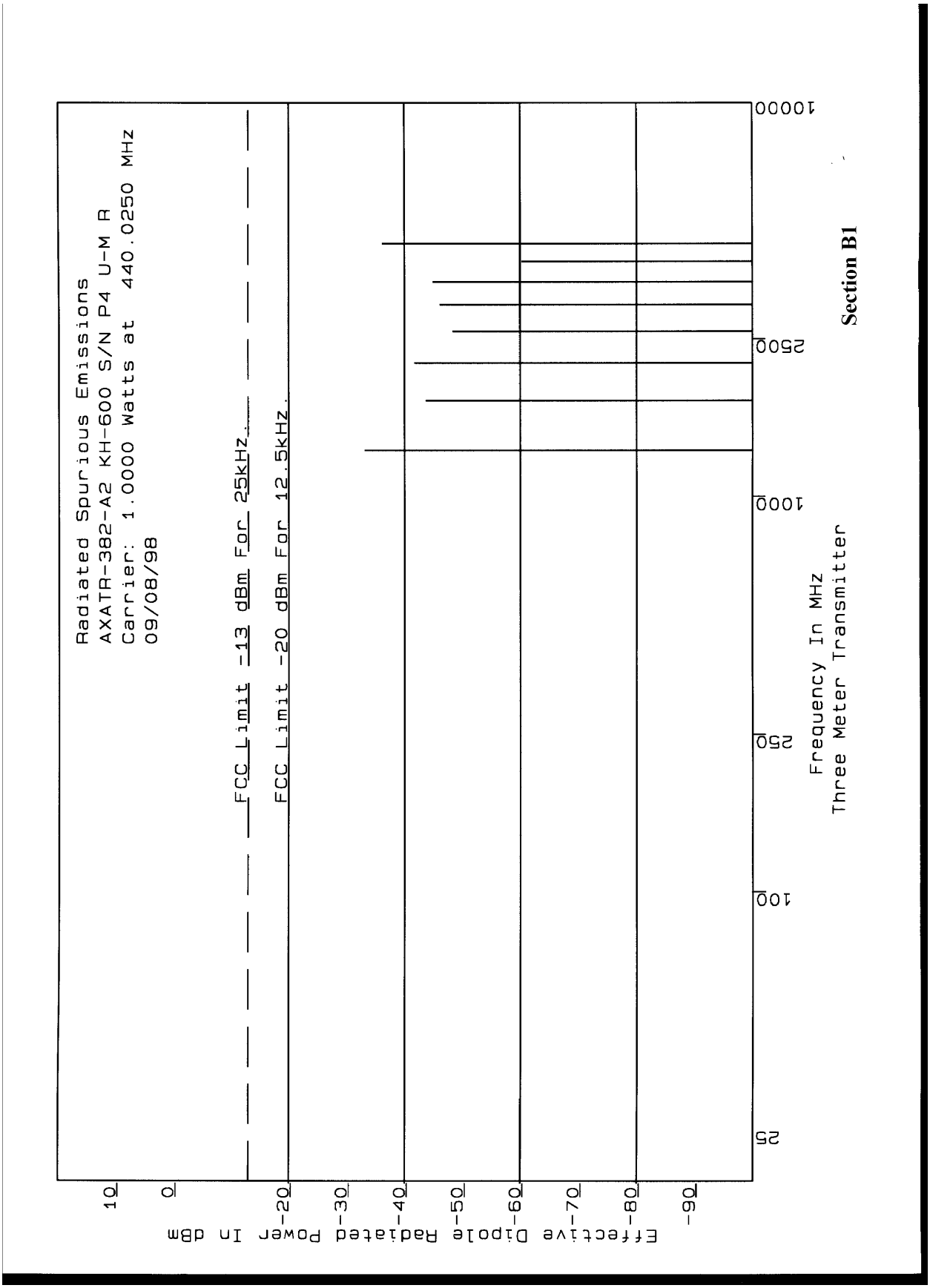
Reference 2.991 spurious emissions at the antenna terminals when properly loaded with an appropriate artificial antenna were measured per TIA\EIA 603.

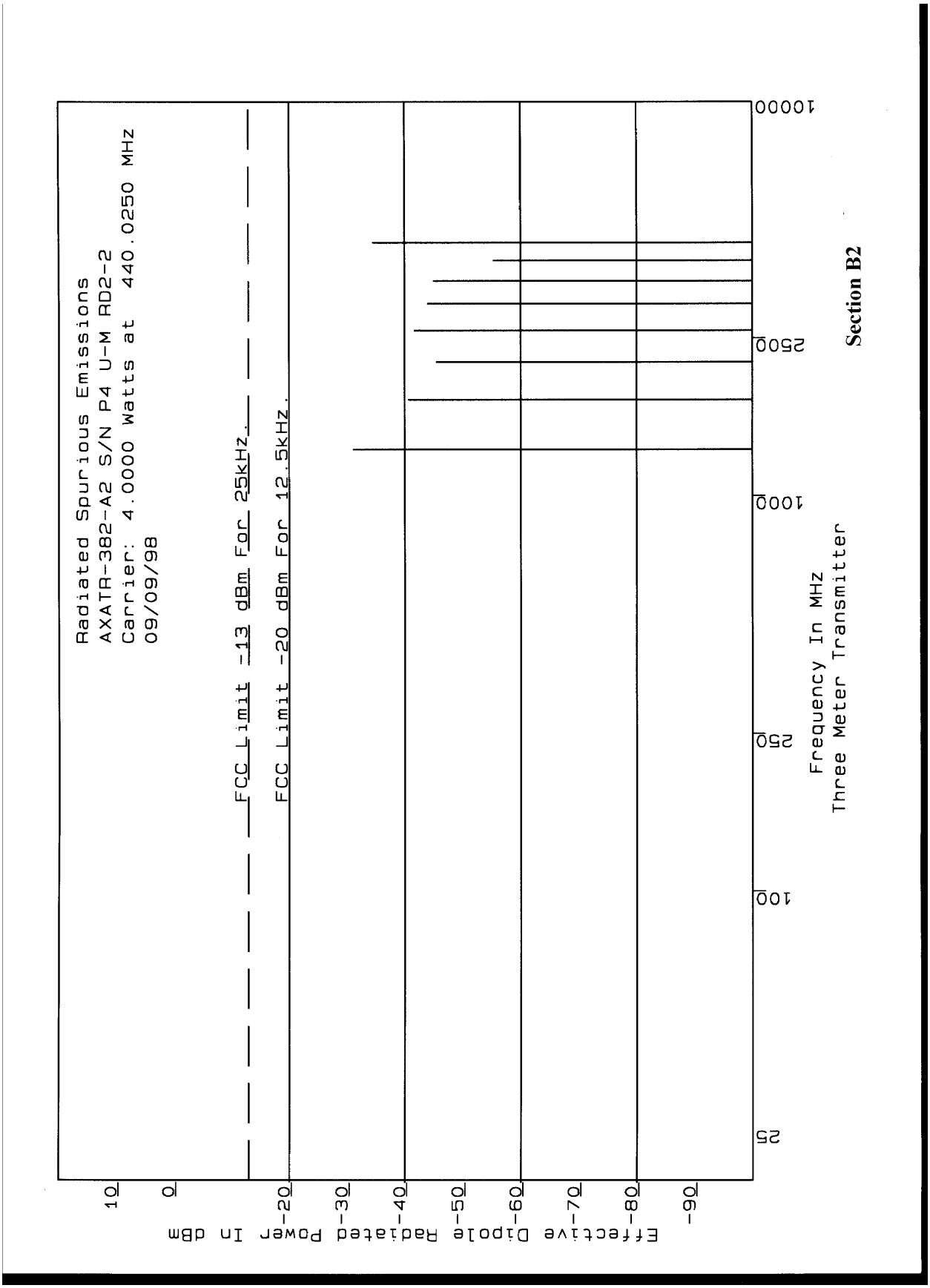
Results are as shown in the following Sections

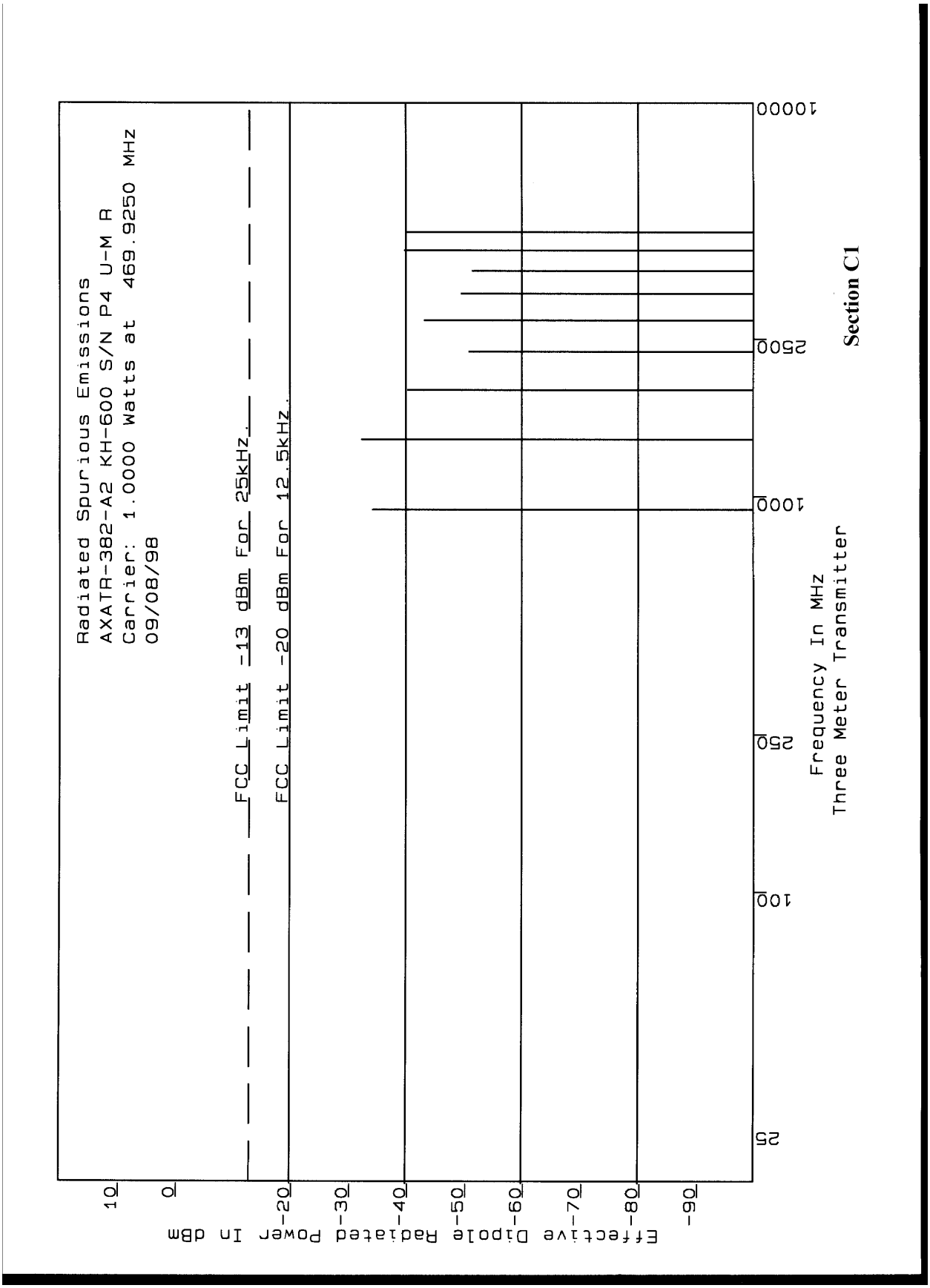
Tx Conducted Emissions		
Sections	Frequency Mhz	Power in Watts
B1	440.025	1
B2	440.025	4
C1	469.925	1
C2	469.925	4

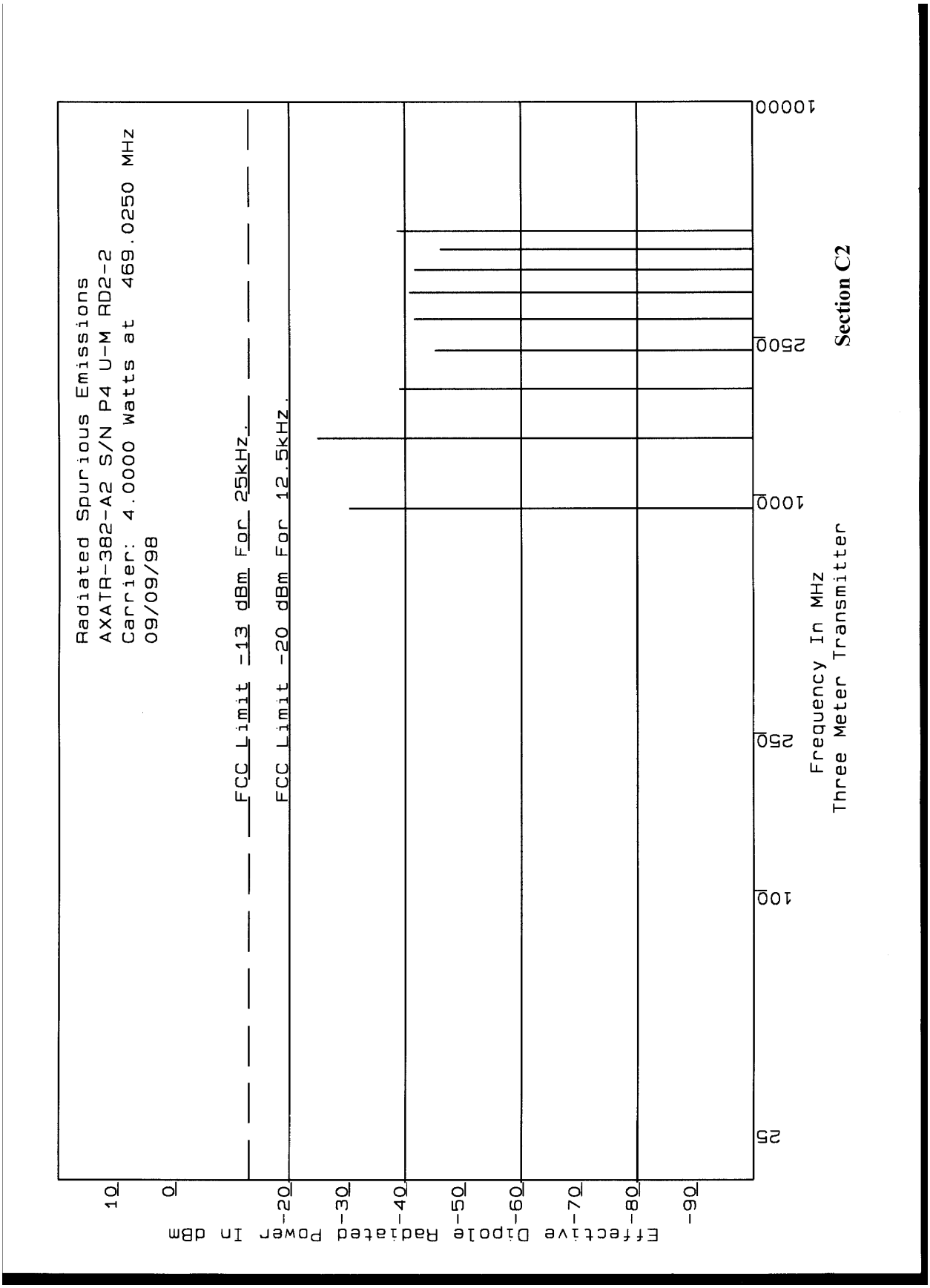
Equipment used was: Rohde & Shwarz ESMI.

*SAME AS FOR 25 OR 12.5 kHz modes


Radiated Spurious Emissions
AXATR-382-A2 KH-600 S/N P4 U-M R
Carrier: 1.0000 Watts at 440.0250 MHz
09/08/98
FCC Limit -13 dBm For 25kHz.
FCC Limit -20 dBm For 12.5kHz.
Effective Dipole Radiated Power In dBm
10
0
-20
-30
-40
-50
-60
-70
-80
-90
25
100
250
1000
10000
Frequency In MHz
Three Meter Transmitter
Section B1


Radiated Spurious Emissions
AXATR-382-A2 S/N P4 U-M RD2-2
Carrier: 4.0000 Watts at 440.0250 MHz
09/09/98
FCC Limit -13 dBm For 25kHz.
FCC Limit -20 dBm For 12.5kHz.
Effective Dipole Radiated Power In dBm
10
0
-20
-30
-40
-50
-60
-70
-80
-90
25
100
250
1000
2500
10000
Frequency In MHz
Three Meter Transmitter
Section B2


Radiated Spurious Emissions
AXATR-382-A2 KH-600 S/N P4 U-M R
Carrier: 1.0000 Watts at 469.9250 MHz
09/08/98
FCC Limit -13 dBm For 25kHz.
FCC Limit -20 dBm For 12.5kHz.
Effective Dipole Radiated Power In dBm
10
0
-20
-30
-40
-50
-60
-70
-80
-90
25
100
250
1000
2500
10000
Frequency In MHz
Three Meter Transmitter
Section C1


Radiated Spurious Emissions
AXATR-382-A2 S/N P4 U-M RD2-2
Carrier: 4.0000 Watts at 469.0250 MHz
09/09/98
FCC Limit -13 dBm For 25kHz.
FCC Limit -20 dBm For 12.5kHz.
Effective Dipole Radiated Power In dBm
10
0
-20
-30
-40
-50
-60
-70
-80
-90
25
100
250
1000
2500
10000
Frequency In MHz
Three Meter Transmitter
Section C2

SECTION 5

FREQUENCY STABILITY

Par. 2.995 (a,1) (b) (d, 1) variation of output frequency as a result of either temperature or voltage variation is reported in the graphs on the following sheets: (The battery is rated from 6 to 9 volts.)

Exhibit 12B Carrier Frequency Vs Temperature

Exhibit 12C Carrier Frequency Vs. Voltage

The Equipment used is:

Hewlett Packard QUARTZ Thermometer Model 2804A
Takeda Counter TR5823AK
Takeda Digital Multimeter TR6878
Tabai Temperature chamber PL-2G

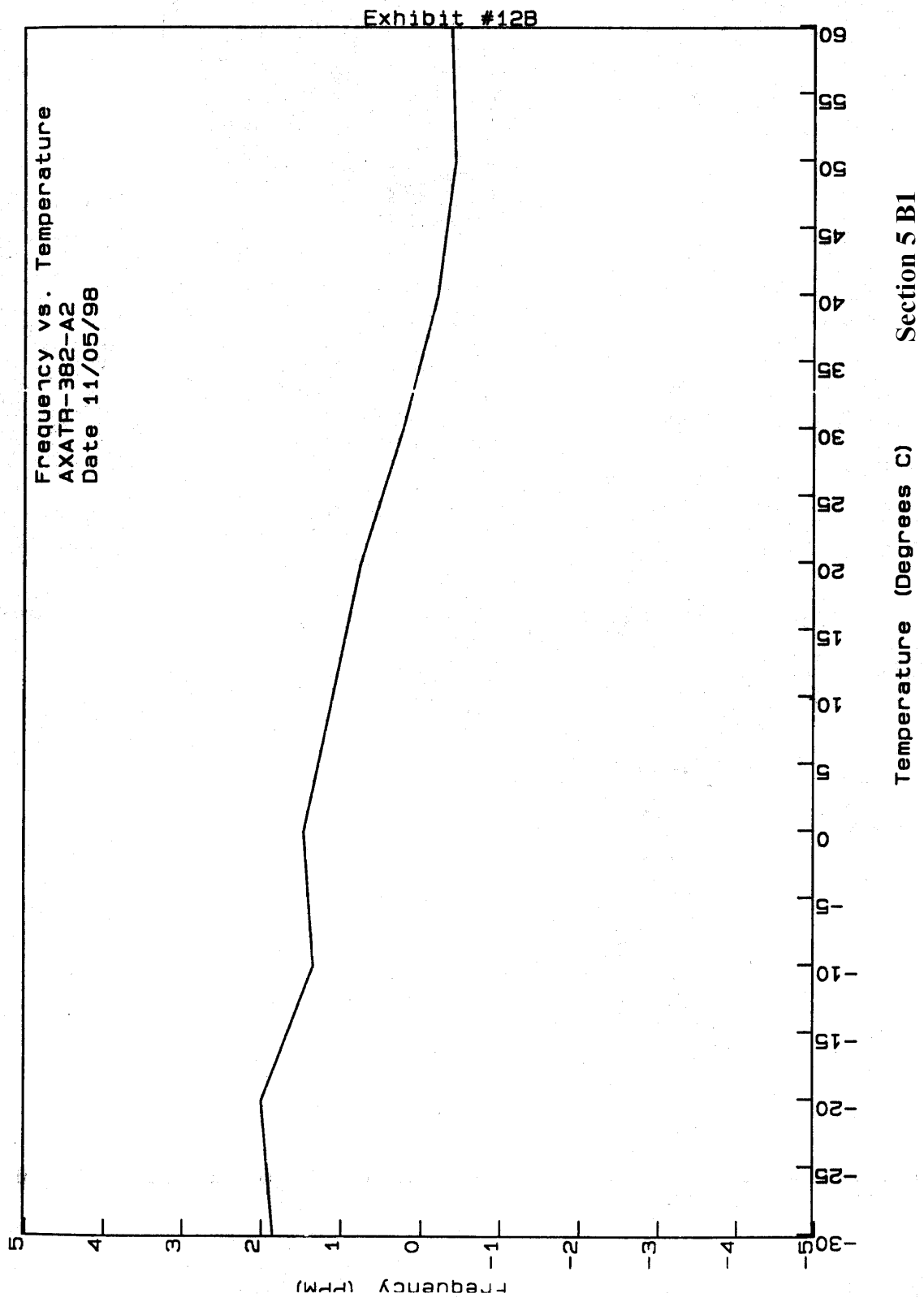
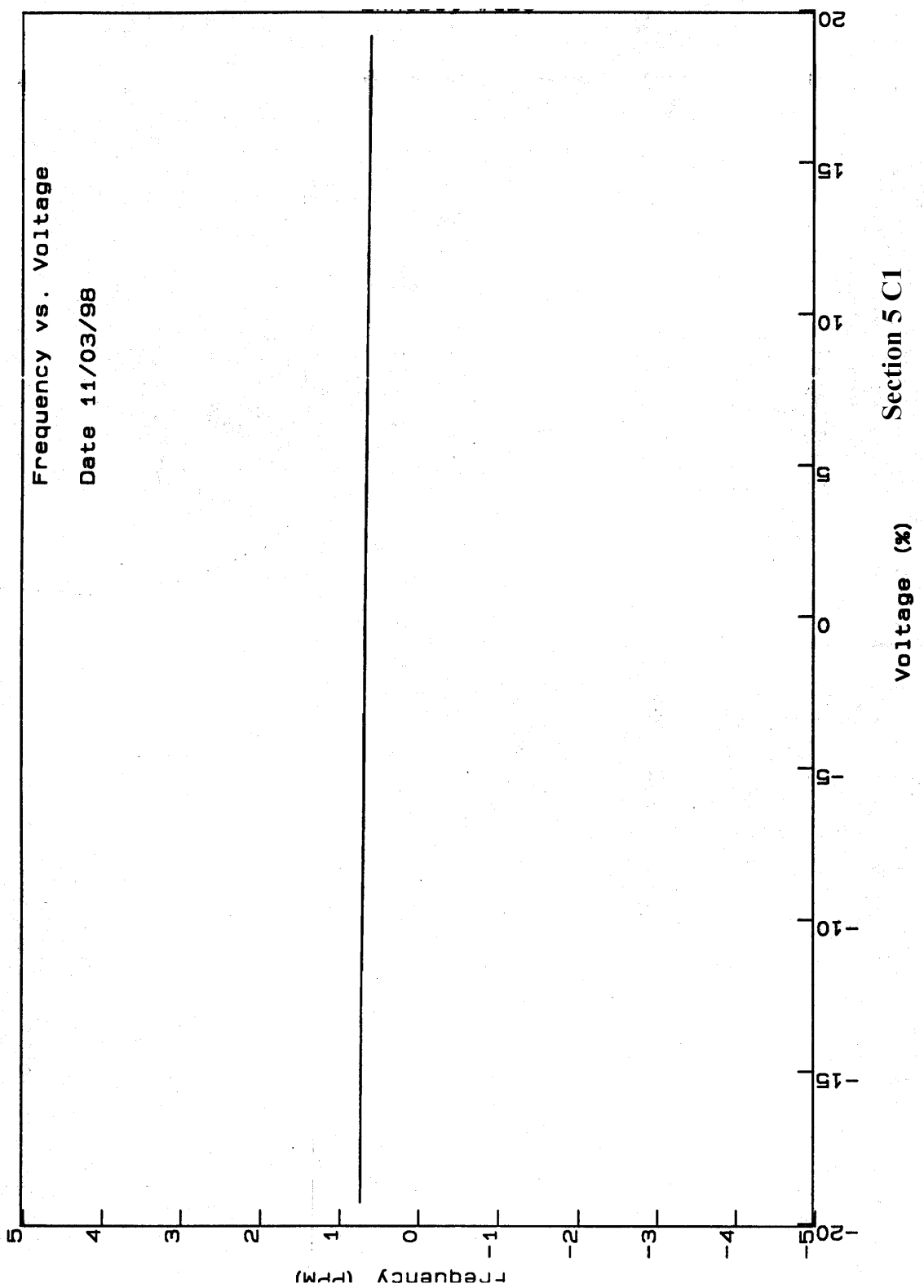
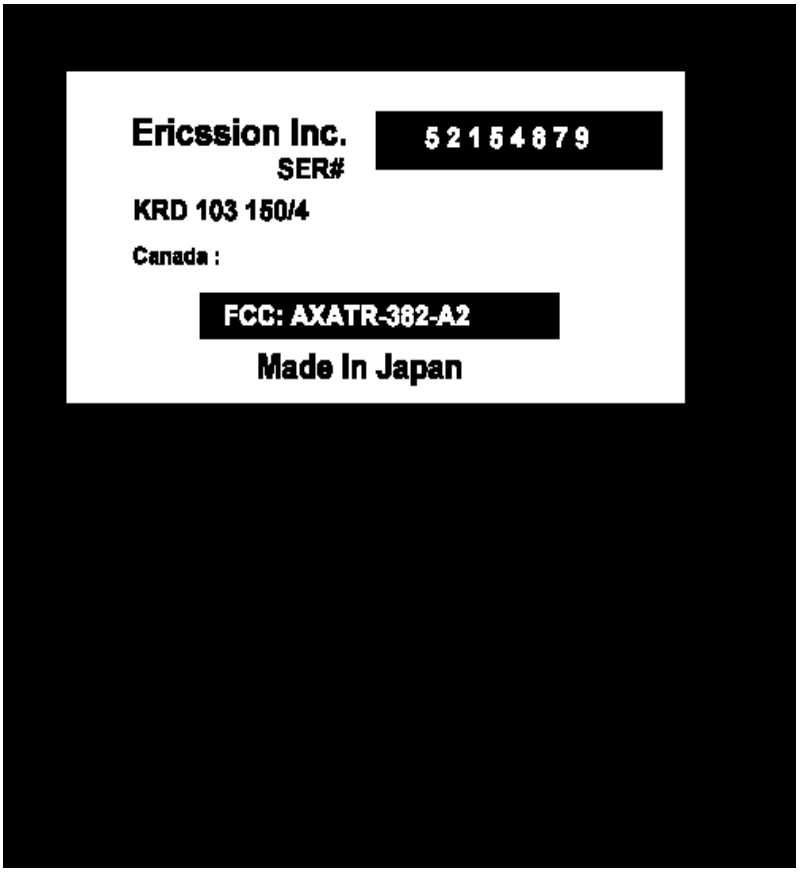


Exhibit #12B
Frequency vs. Temperature
AXATR-382-A2
Date 11/05/98
Temperature (Degrees C)
Section 5 B1
60
55
50
45
40
35
30
25
20
15
10
5
0
-5
-10
-15
-20
-25
-30
5
4
3
2
1
0
-1
-2
-3
-4
-5


Frequency vs. Voltage
Date 11/03/98
Section 5 C1
Voltage (%)
Frequency (PPM)
20
15
10
5
0
-5
-10
-15
-20
5
4
3
2
1
0
-1
-2
-3
-4
-5

INDENTIFICATION NAMEPLATE



SECTION 7

TRANSIENT FREQUENCY BEHAVIOR

PER PT 90.214 USING EIA/TIA 603, THE FOLLOWING MEASUREMENTS WERE MADE:

SECTION	FREQUENCY	BANDWIDTH
7B	455.025	25 kHz
7C	455.025	12.5 kHz

The Measurements taken are representative of the entire frequency band.

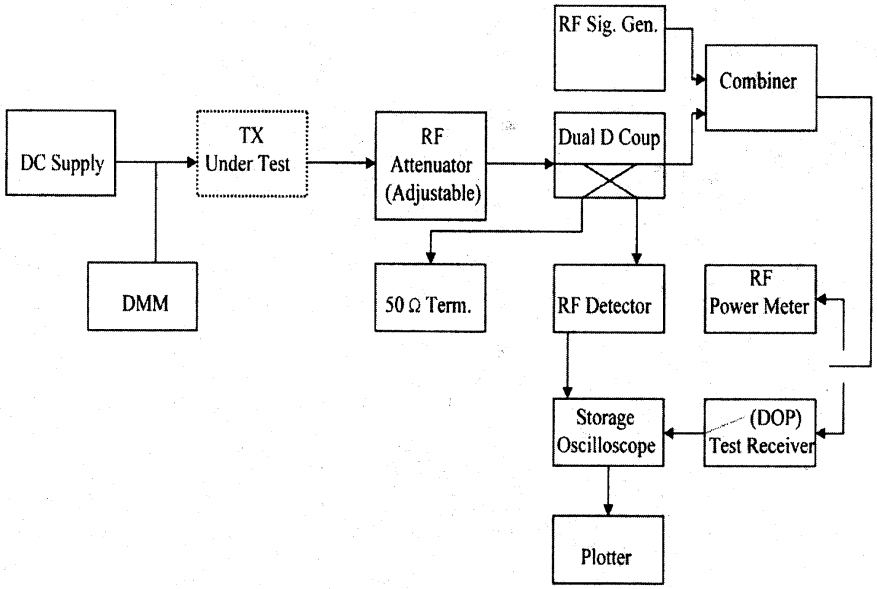
Table 1: List of Equipment

HP 778D DUAL DIRECTIONAL COUPLER	HP432A RF DETECTOR
TEKTRONIX 2232 OSCILLOSCOPE	HP8657A SIGNAL GENERATOR
HP 8901A MODULATION ANALYZER	HP436A POWER METER
HP 8482A POWER SENSOR	6261 DC POWER SUPPLY
KEITHLY 179 TRMS DIGITAL MULTIMETER	TEKTRONIX HC100 PLOTTER
NARDA ATTENUATORS	MINICIRCUITS 15542 ZFRSC-2050

SECTION 7

TRANSIENT FREQUENCY BEHAVIOR

Transient Frequency Behavior Measurement Per TIA/EIA 603.



1. Equipment is connected as illustrated above.
2. Connect the test receiver's Demodulator Output Port (DOP) to the vertical input chan nel of the storage Oscilloscope. Connect the output of the RF detector the external trigger of the oscilloscope. Connect the output of the RF combiner the RF power meter.
3. Set the test receiver to measure FM deviation with the audio bandwidth set at =50 Hz to =15,000 Hz and tune the RF frequency to the transmitter assigned frequency.
4. Turn on the TUT (Transmitter Under Test). Adjust the RF attenuator to provide an input level of 20 dBm which is 10 dB below the maximum allowed input power to the test receiver. (TIA/EIA 603 first sets the level to 40 dB below the maximum allowed input level of the test receiver, then increases the level by 30 dB to 10 dB below the maximum allowed input level. The maximum input level of our test receiver is 30 dBm.) Turn off the TUT.
5. Set the signal generator to the assigned TX frequency and modulate it with a 1 kHz tone at +/- d, deviation equal to the Channel Spacing (i.e. 25,12.5, or 6.25 kHz) and set its power to -30 dBm (50 dB below the level of the TUT).
6. Disconnect the RF power meter and connect the output of the RF combiner network to the input of the test receiver.

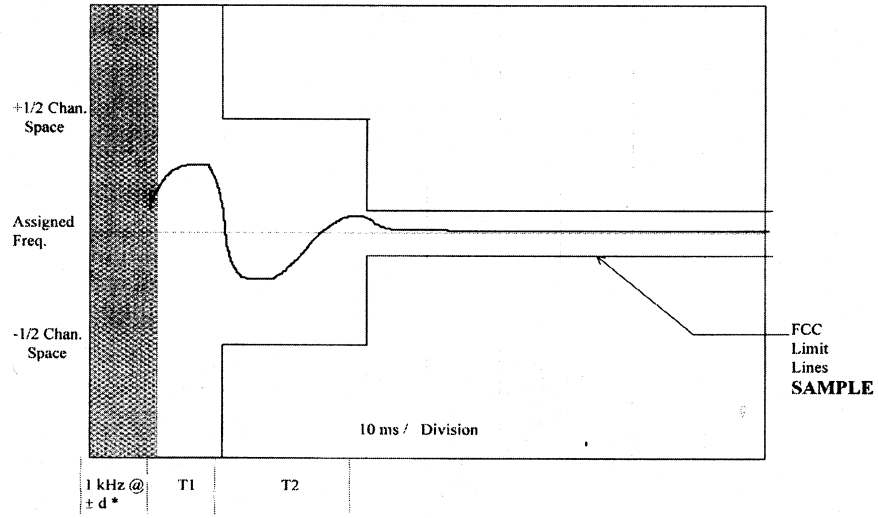
SECTION 7

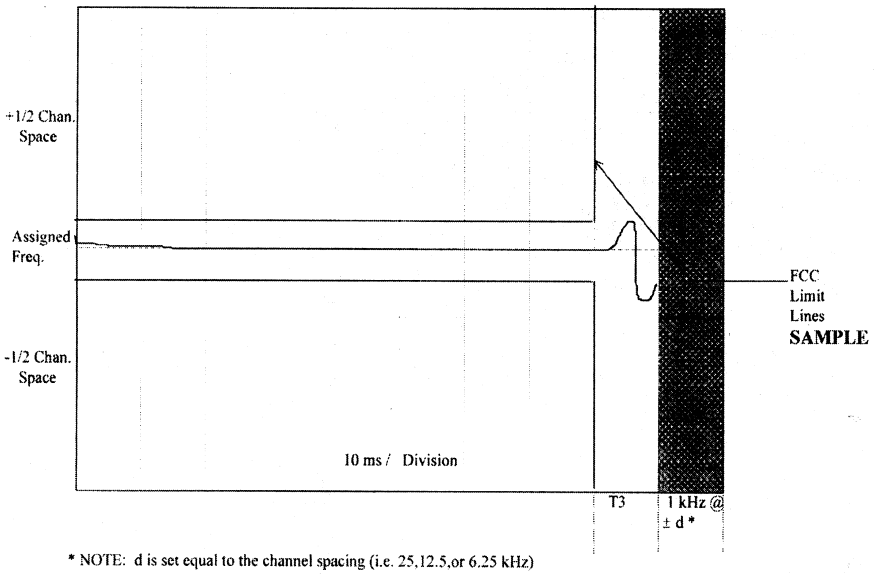
TRANSIENT FREQUENCY BEHAVIOR

7. Set the horizontal sweep rate on the storage oscilloscope to 10 milliseconds per division and adjust the display to continuously view the 1000 Hz tone from the DOP. Adjust the vertical amplitude control of the oscilloscope to display the 1000 Hz at +/-4 divisions vertically centered on the display.
8. Adjust the oscilloscope so it will trigger on an increasing magnitude from the RF peak detector at 1 division from the left side of the display, when the transmitter is turned on. Set the controls to store the display.
9. Turn on the TUT and observe the stored display. The output at the DOP, due to the change in ratio of power between the signal generator input power and the transmitter output power will, because of the capture effect of the test receiver, produce a change in display: For the first part of the sweep it will show the 1 kHz test signal. Then once the receiver's demodulator has been captured by the transmitter power, the display will show the frequency difference from the assigned frequency to the actual transmitter frequency versus time. The instant when the 1 kHz test signal is completely suppressed (including any capture time due to phasing) is considered to be "t on".
10. To test the transient frequency during the period of "t 3", the transmitter shall be switched on.
11. Adjust the oscilloscope so it will trigger on a decreasing magnitude from the RF peak detector at 1 division from the right side of the display, when the transmitter is turned off. Set the controls to store the display.
12. The transmitter shall be switched off.
13. Observe the display. The trace should remain with in the allowed divisions during the period "t 3", according to the specifications in 90.213,90.214.

SECTION 7

TRANSIENT FREQUENCY BEHAVIOR





* NOTE: d is set equal to the channel spacing (i.e. 25,12.5,or 6.25 kHz)

ERICSSON		Internal Information TEST REPORT		1 (8)
Uppgjord (även faktaansvarig om annan) - *Prepared (also subject responsible if other)* EUS/LT/V/ Carlin Willis		DOCUMENT No. EUS/LT/V/AXATR-382-A2		
Dokansv/Godk - *Doc respons/Approved* EUS/LT/V/ John Bavely	Kontr - *Checked*	Datum – *Date*	Rev A	File N:\...\Tx_Freq_Behav.doc

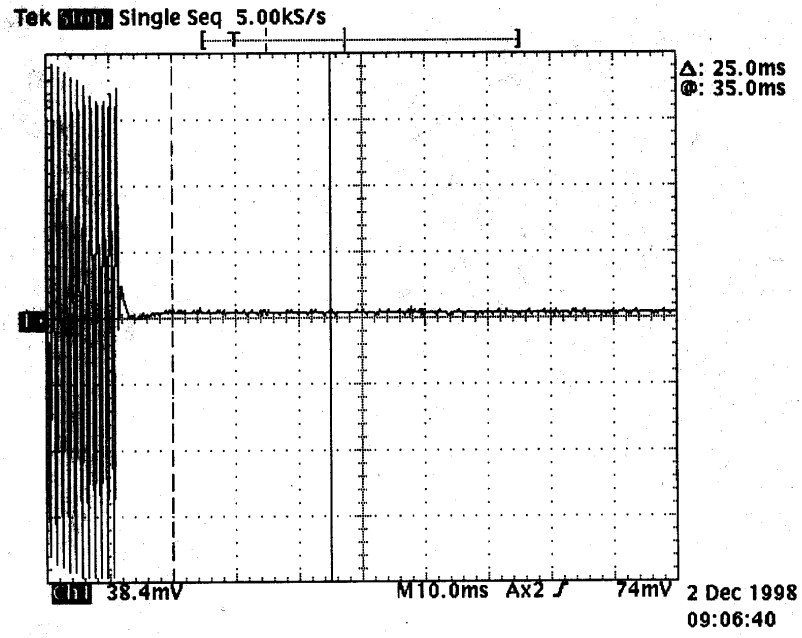
Transient Frequency Behavior of the Transmitter (Section 2.2.19) SEE THE FOLLOWING EIGHT PLOTS
Section # 15
Normal, Exhibit Letter B1

Plot No. One; Switch-on behavior of channel number ____ of the transmitter.

Transmitter output Power = __4__ Watts.

Fo = 455.025 MHz.

Remarks: Frequency error: f= 12.5 / 20 / 25 KHz / div.



ERICSSON		Internal Information TEST REPORT		3 (8)
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Dokansv/Godk - *Doc respons/Approved* EUS/LT/V/ John Bavely	Kontr - *Checked*	Datum – *Date*	Rev A	File N:\...\Tx_Freq_Behav.doc

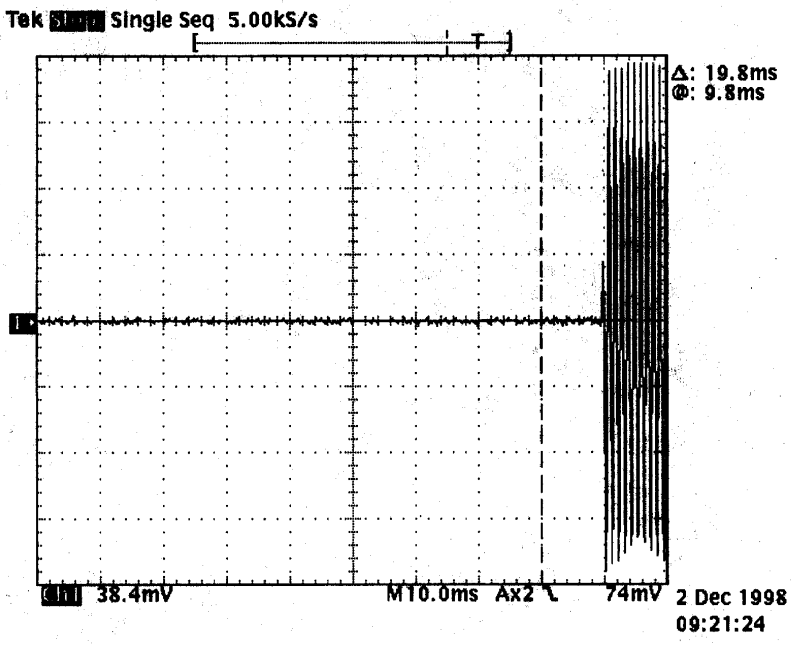
Transient Frequency Behavior of the Transmitter (Section 2.2.19)
Section # 15
Normal, Exhibit Letter B3

Plot No. Three; Switch-off behavior of channel number ____ of the transmitter

Transmitter output Power = __4__ Watts.

Fo = 455.025 MHz.

Remarks: Frequency error: f= 12.5 / 20 / 25 KHz / div.



ERICSSON		Internal Information TEST REPORT		5 (8)
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Dokansv/Godk - *Doc respons/Approved* EUS/LT/V/ John Bavely	Kontr - *Checked*	Datum – *Date*	Rev A	File N:\...\Tx_Freq_Behav.doc

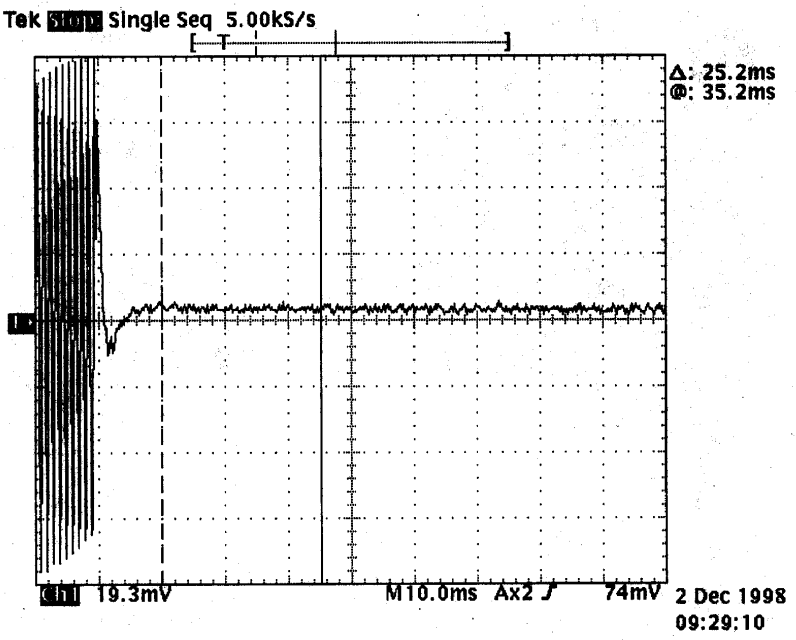
Transient Frequency Behavior of the Transmitter (Section 2.2.19)
Section # 15
Normal, Exhibit Letter C1

Plot No. Five; Switch-on behavior of channel number ____ of the transmitter.

Transmitter output Power = __4__ Watts.

Fo = 455.025 MHz.

Remarks: Frequency error: f= 12.5 / 20 / 25 KHz / div.



ERICSSON		Internal Information TEST REPORT		7 (8)
Uppgjord (även faktaansvarig om annan) - *Prepared (also subject responsible if other)* EUS/LT/V/ Carlin Willis		DOCUMENT No. EUS/LT/V/AXATR-382-A2		
Dokansv/Godk - *Doc respons/Approved* EUS/LT/V/ John Bavely	Kontr - *Checked*	Datum – *Date*	Rev A	File N:\...\Tx_Freq_Behav.doc

Transient Frequency Behavior of the Transmitter (Section 2.2.19)
Section # 15
Normal, Exhibit Letter C3

Plot No. Seven; Switch-off behavior of channel number ____ of the transmitter.

Transmitter output Power = __4__ Watts

Fo = 455.025 MHz.

Remarks: Frequency error: f= 12.5 / 20 / 25 KHz / div.