



**COMPATIBLE
ELECTRONICS**

FCC ID: AMWUC668 Report Number: B91005D1



***SPECTRAL DENSITY OUTPUT
DATA SHEETS FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

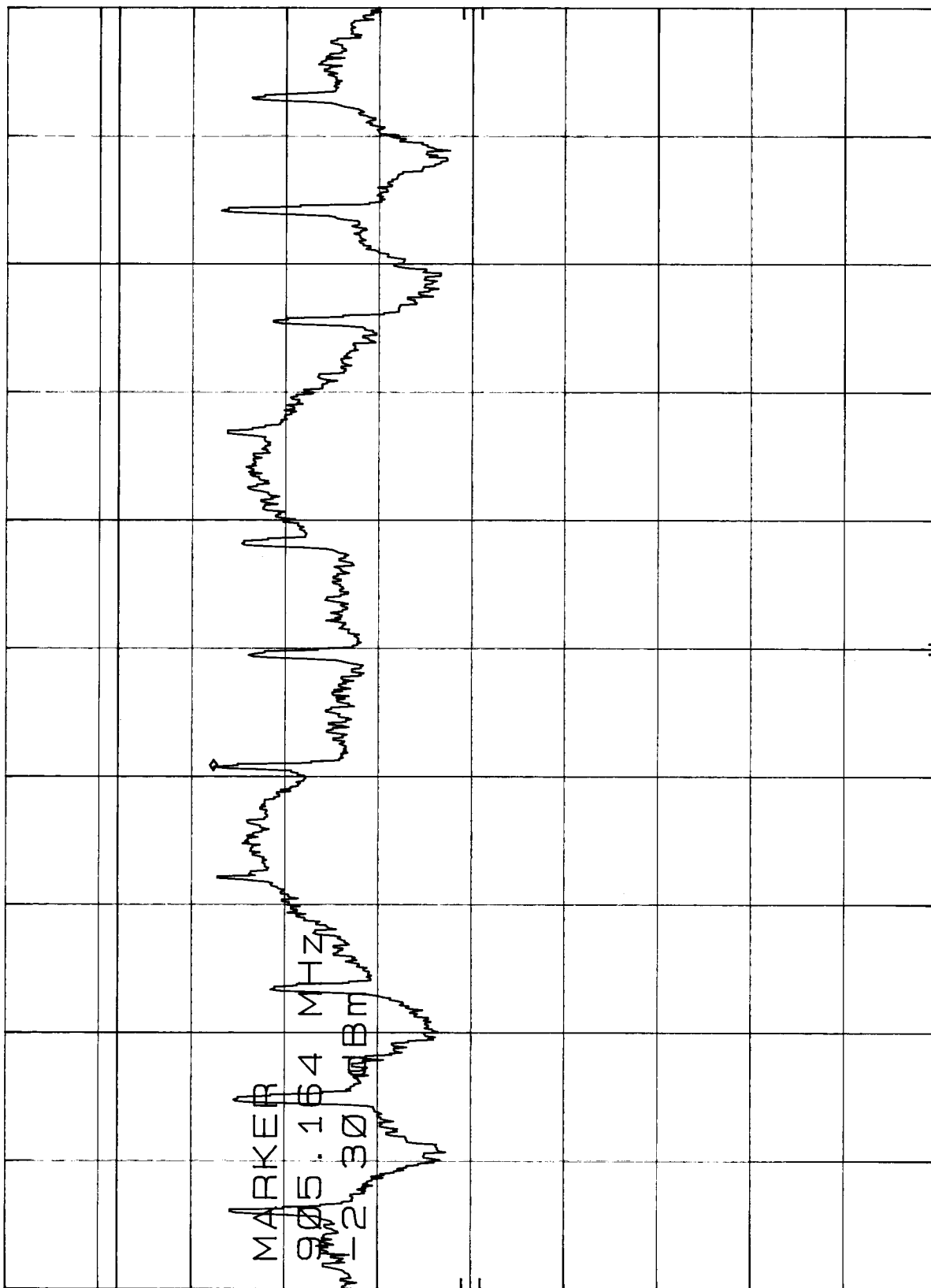
10-4-99

SPECTRAL DENSITY OUTPUT HANDSET CHANNEL 1 MKR 905.164 MHz
REF 20.0 dBm ATTN 30 dB

hp

10 dB/

DL
8.0
dBm



CORR'D

CENTER 905.28 MHz
RES BW 3 kHz
SPAN 1.31 MHz
SWP 437 sec
VBW 10 kHz

10-4-99

SPECTRAL DENSITY OUTPUT HANDSET CH. 11 MKR 914.764 MHz
REF 20.0 dBm ATTEN 30 dB -3.80 dBm

hp

10 dB/

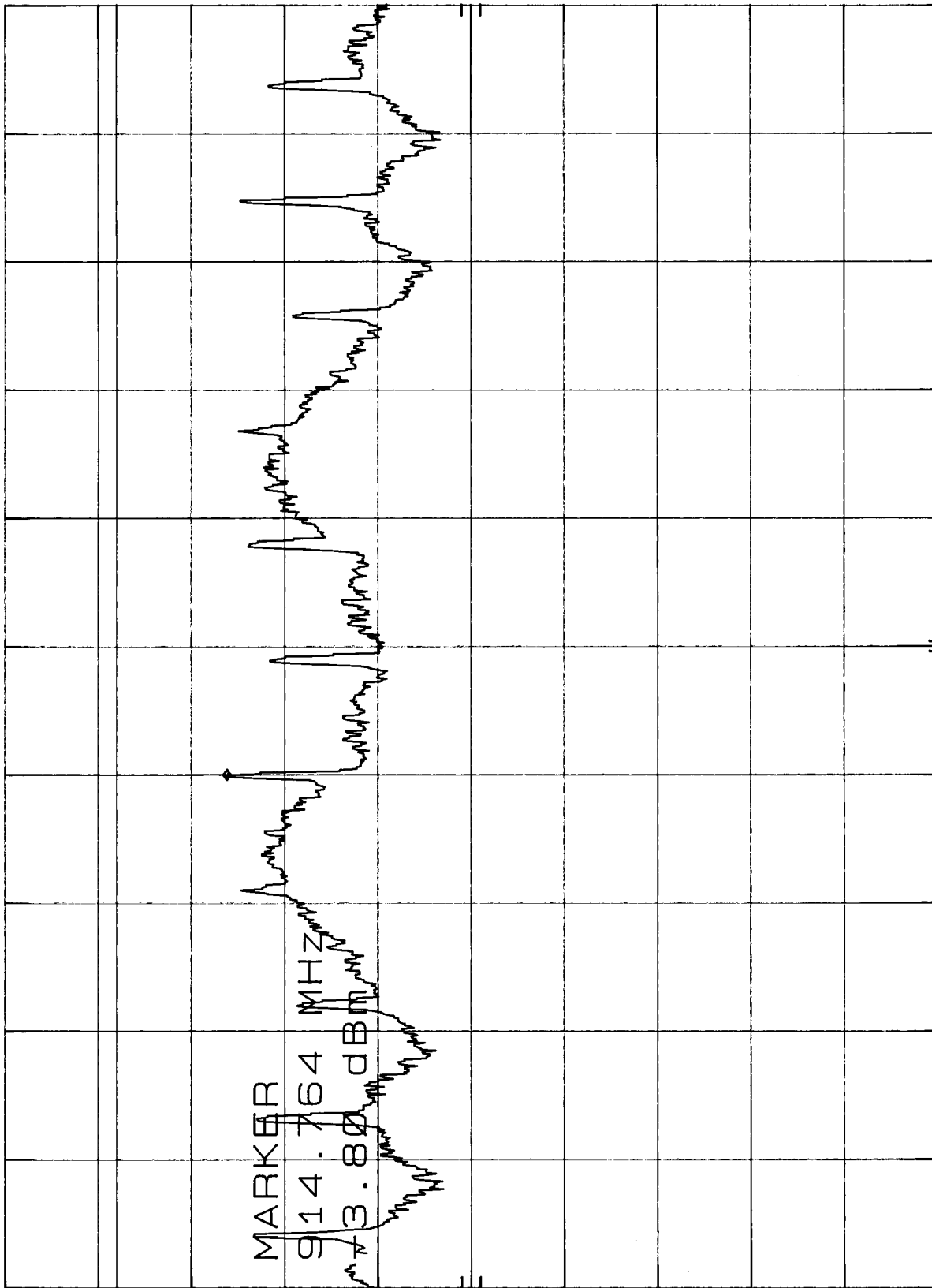
DL
8.0
dBm

MARKER

914.764 MHz

-3.80 dBm

CORR'D



CENTER 914.89 MHz
RES BW 3 kHz

VBW 1 MHz

SPAN 1.27 MHz
SWP 423 sec

10-4-99

SPECTRAL DENSITY OUTPUT HANDSET CHANNEL 20 MKR 923.403 MHz
REF 20.0 dBm ATTN 30 dB

hp

10 dB/

DL
8.0
dBm

MARKER

923.403 MHz

20.0 dBm

CORR'D

CENTER 923.51 MHz

RES BW 3 kHz

VBW 100 kHz

SPAN 1.31 MHz

SWP 437 sec



***RF ANTENNA CONDUCTED
DATA SHEETS FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

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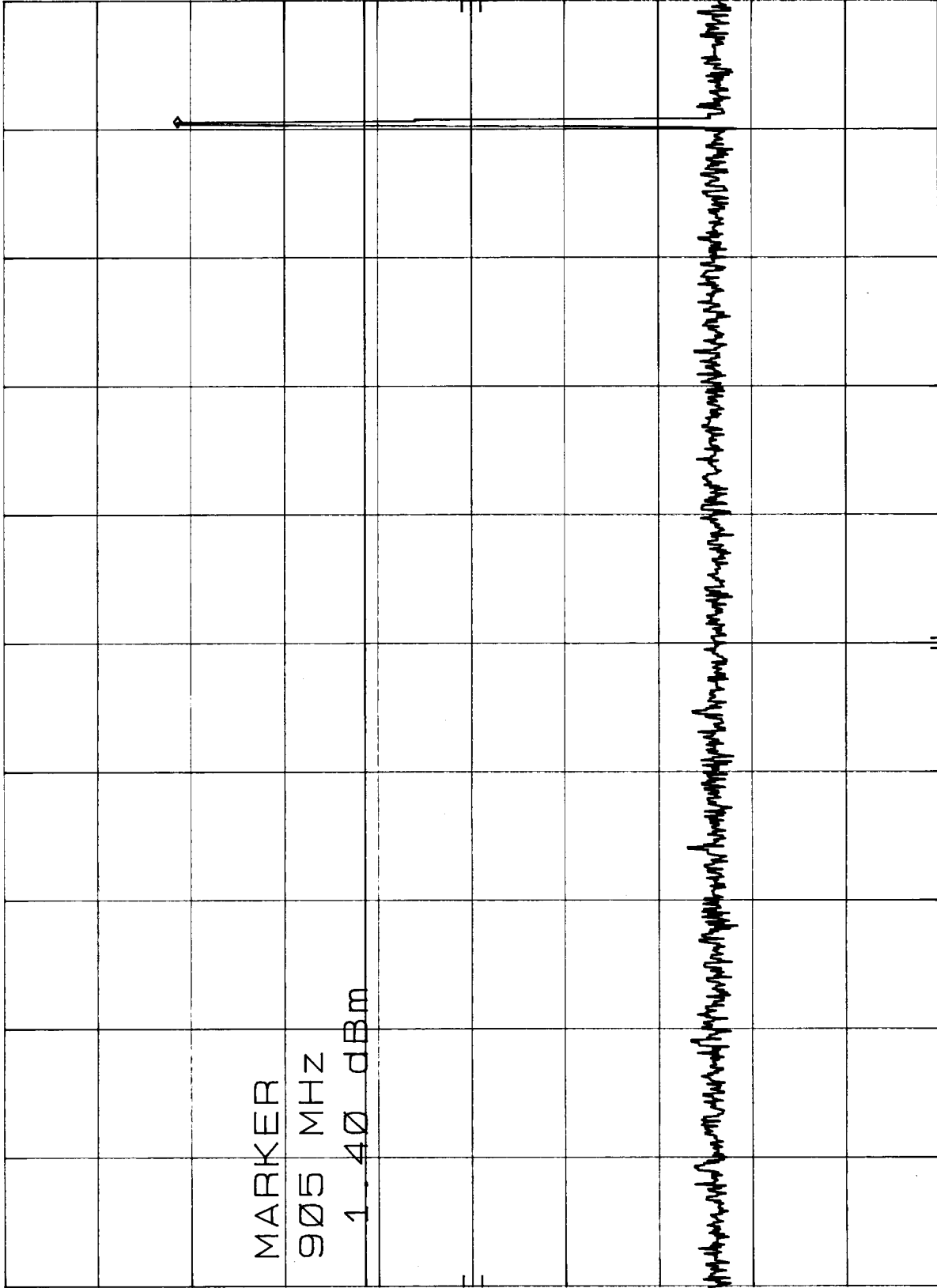
RF ANT. COND. TEST HANDSET CH.1 2MHZ-1GHZ MKR 905 MHZ
REF 20.0 dBm ATTEN 30 dB 1.40 dBm

hp

10 dB/

MARKER
905 MHZ
1.40 dBm
DL
-18.6
dBm

CORR'D



START 2 MHZ RES BW 100 KHZ STOP 1.00 GHZ
SWP 299 msec VBW 1 MHZ

10-4-99

RF ANT. COND. HANDSET CH. 1 - 1GHZ-2GHZ
REF 20.0 dBm ATTN 30 dB
MKR 1.357 GHz
-52.10 dBm

hp

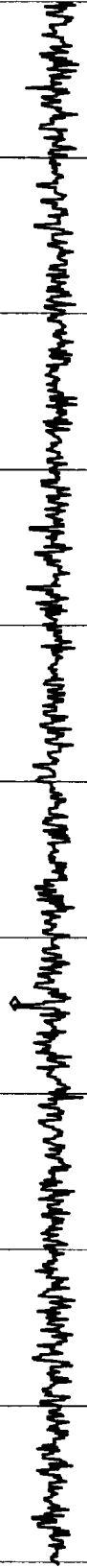
10 dB/

MARKER

1.357 GHz
-52.10 dBm

DL
-18.6
dBm

CORR'D



START 1.00 GHz
RES BW 100 KHz
STOP 2.00 GHz
SWP 300 msec
VBW 1 MHz

10-4-99

RF ANT. COND. HANDSET CH. 1 - 2GHZ-10GHZ MKR 3.160 GHZ
REF 20.0 dBm ATTN 30 dB -44.80 dBm

hp

10 dB/

MARKER

3.160 GHZ

-44.80 dBm

DL

-18.6

dBm

CORR'D



START 2.00 GHZ STOP 10.00 GHZ
RES BW 100 KHZ SWP 2.40 sec
VBW 1 MHZ

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RF ANT. COND. HANDSET CH. 11 - 2MHZ-1GHZ MKR 915 MHz
REF 20.0 dBm ATTEN 30 dB -0.30 dBm

hp

10 dB/

DISPLAY LINE
-19.7 dBm

DL
-19.7
dBm

CORR'D

START 2 MHz RES BW 100 kHz STOP 1.00 GHz
VBW 1 MHz SWP 299 msec

10-4-99

RF ANT. COND. HANDSET CH. 11 - 1GHZ-2GHZ MKR 1.154 GHZ
REF 20.0 dBm ATTN 30 dB -53.20 dBm

hp

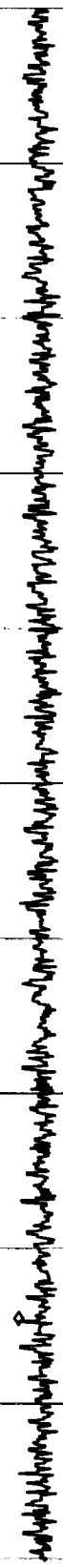
10 dB/

MARKER

1.154 GHZ
-53.20 dBm

DL
-19.7
dBm

CORR'D



START 1.00 GHZ RES BW 100 KHZ VBW 1 MHZ STOP 2.00 GHZ
SWP 300 msec

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MKR 3.200 GHZ
-46.30 dBm

RF ANT. COND. HANDSET CH. 11 - 2GHZ-10GHZ
REF 20.0 dBm ATTN 30 dB

HP

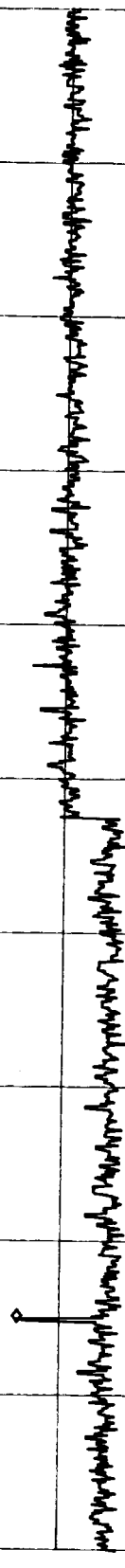
10 dB/

MARKER

3.200 GHZ
-46.30 dBm

DL
-19.7
dBm

CORR'D



START 2.00 GHZ
RES BW 100 KHZ
VBW 1 MHZ
STOP 10.00 GHZ
SWP 2.40 sec

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RF. ANT. COND. HANDSET CH. 20 2MHZ-1GHZ MKR 924 MHZ
REF 20.0 dBm ATTEN 30 dB 0.60 dBm

hp

10 dB/

MARKER

924 MHZ

DL
-19.4
dBm

0.60 dBm

CORR'D

RF. ANT. COND. HANDSET CH. 20 2MHZ-1GHZ MKR 924 MHZ
REF 20.0 dBm ATTEN 30 dB 0.60 dBm

START 2 MHZ

RES BW 100 KHZ

VBW 1 MHZ

STOP 1.00 GHZ
SWP 299 msec

10-4-99

RF ANT. COND. HANDSET CH. 20 1GHZ-2GHZ MKR 1.402 GHZ
REF 20.0 dBm ATTEN 30 dB -52.30 dBm

hp

10 dB/

MARKER

1.402 GHZ

DL
-19.4
dBm

-52.30 dBm

CORR'D

RF ANT. COND. HANDSET CH. 20 1GHZ-2GHZ MKR 1.402 GHZ
REF 20.0 dBm ATTEN 30 dB -52.30 dBm

START 1.00 GHZ STOP 2.00 GHZ
RES BW 100 KHZ SWP 300 msec
VBW 1 MHZ

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RF ANT. COND. HANDSET CH. 20 - 2GHz-10GHz MKR 3.224 GHz
hpa REF 20.0 dBm ATTN 30 dB -46.80 dBm

10 dB/

MARKER

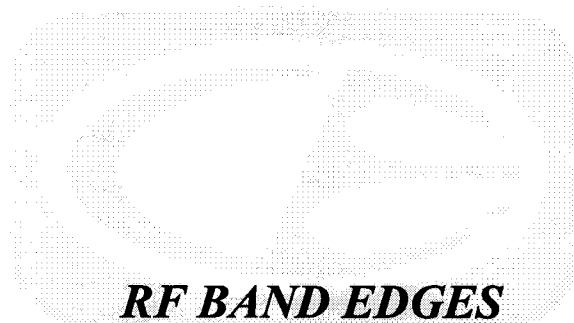
3.224 GHz

-46.80 dBm

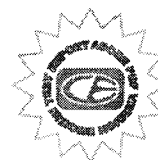
DL
-19.4
dBm

CORR'D

START 2.00 GHz RES BW 100 kHz STOP 10.00 GHz
VBW 1 MHz SWP 2.40 sec



***RF BAND EDGES
FOR THE HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

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hpd
BAND EDGE OF HANDSET CHANNEL 1
REF 20.0 dBm ATTEN 30 dB
MKR 902.00 MHz
-53.10 dBm

10 dB/

DL
-18.2 dBm
CORR'D

MARKER
902.00 MHz
-53.10 dBm

START 900.2 MHz
RES BW 100 kHz
STOP 910.2 MHz
SWP 20.0 msec
VBW 1 MHz

10-4-99

BAND EDGE OF HANDSET CH. 20
REF 20.0 dBm ATTN 30 dB

MKR 928.00 MHz
-56.40 dBm

hp

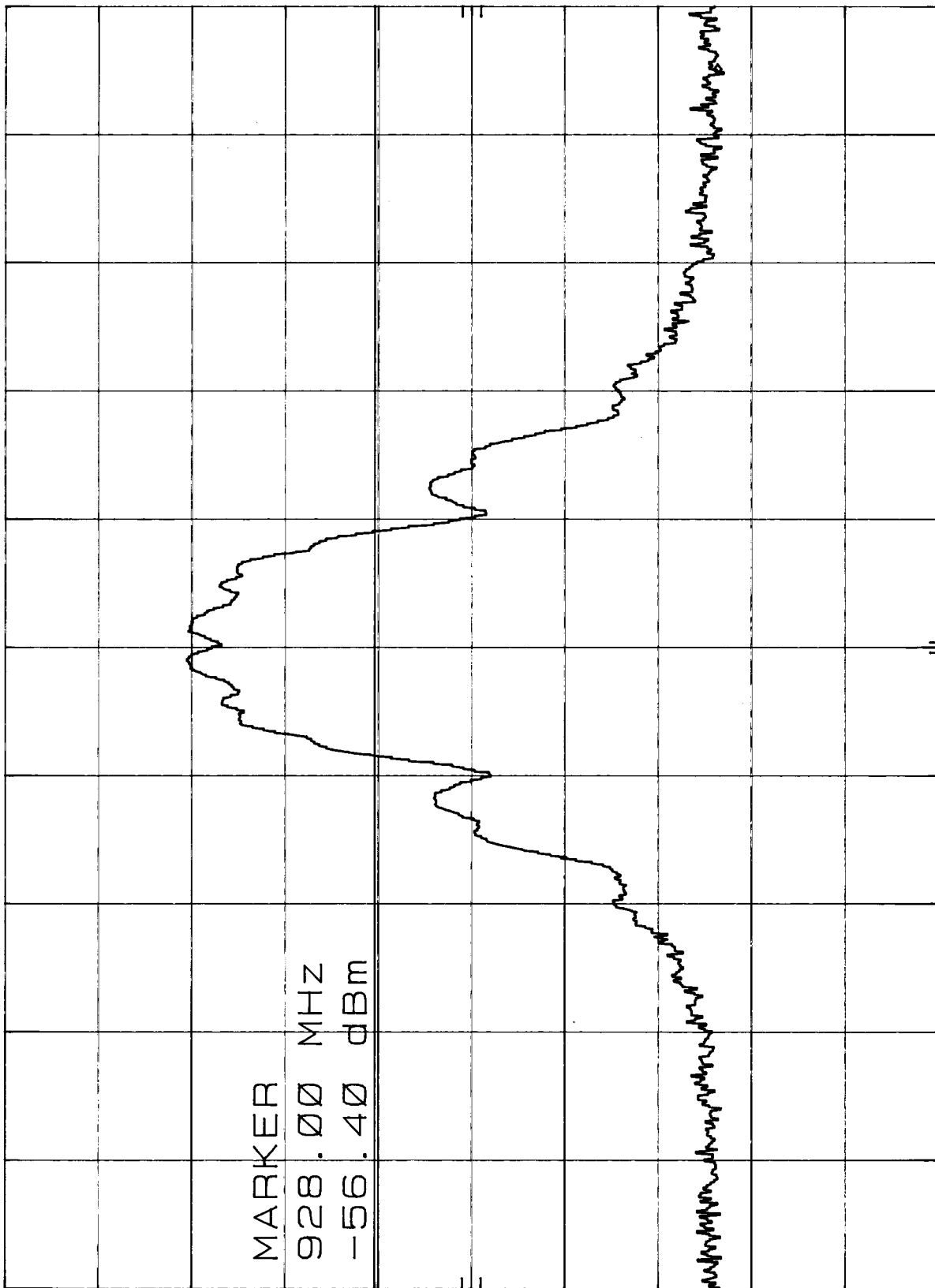
10 dB/

MARKER

928.00 MHz
-56.40 dBm

DL
-19.6
dBm

CORR'D

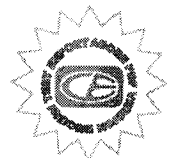


CENTER 923.4 MHz
RES BW 100 kHz
VBW 1 MHz

SPAN 10.0 MHz
SWP 20.0 msec



***PROCESSING GAIN
DATA SHEETS FOR THE BASE AND HANDSET***



114 OLINDA DRIVE, BREA, CALIFORNIA 92823 PHONE: (714) 579-0500 FAX: (714) 579-1850

PROCESSING GAIN TEST

CHANNEL11(914.88MHz) - Base station output to handset input

Jammer Freq. (MHz)	Transmitter Outputs (dBm)	Signal Level (dBm)	CW Level (dBm)	Mj J/S ratio (dB)	Processing Gain (dB)	LOSSES(dB) Attenuation System Loss S/N ratio
						50 2 11
913.88	5.4	-44.6	-37.0	7.6	20.6	
913.93	5.4	-44.6	-37.6	7.0	20.0	
913.98	5.4	-44.6	-38.3	6.3	19.3	
914.03	5.4	-44.6	-39.3	5.3	18.3	
914.08	5.4	-44.6	-39.9	4.7	17.7	
914.13	5.4	-44.6	-40.3	4.3	17.3	
914.18	5.4	-44.6	-41.1	3.5	16.5	
914.23	5.4	-44.6	-42.0	2.6	15.6	
914.28	5.4	-44.6	-42.6	2.0	15.0	
914.33	5.4	-44.6	-43.0	1.6	14.6	
914.38	5.4	-44.6	-43.6	1.0	14.0	
914.43	5.4	-44.6	-43.7	0.9	13.9	
914.48	5.4	-44.6	-44.1	0.5	13.5	
914.53	5.4	-44.6	-44.1	0.5	13.5	
914.58	5.4	-44.6	-44.5	0.1	13.1	
914.63	5.4	-44.6	-44.8	-0.2	12.8	
914.68	5.4	-44.6	-44.5	0.1	13.1	
914.73	5.4	-44.6	-44.5	0.1	13.1	
914.78	5.4	-44.6	-44.5	0.1	13.1	
914.83	5.4	-44.6	-44.5	0.1	13.1	

Mj J/S ratio =
CW Noise- SigLevel

ProcessingGain =
Mj J/S ratio + Sytem Loss + S/N ral

CHANNEL9(912.96MHz) - Handset output to base station input

Jammer Freq. (MHz)	Transmitter Outputs (dBm)	Signal Level (dBm)	CW Level (dBm)	Mj J/S ratio (dB)	Processing Gain (dB)
911.96	1.0	-49.0	-40.7	8.3	21.3
912.01	1.0	-49.0	-41.7	7.3	20.3
912.06	1.0	-49.0	-42.5	6.5	19.5
912.11	1.0	-49.0	-43.4	5.6	18.6
912.16	1.0	-49.0	-44.6	4.4	17.4
912.21	1.0	-49.0	-45.1	3.9	16.9
912.26	1.0	-49.0	-44.7	4.3	17.3
912.31	1.0	-49.0	-45.6	3.4	16.4
912.36	1.0	-49.0	-46.4	2.6	15.6
912.41	1.0	-49.0	-46.7	2.3	15.3
912.46	1.0	-49.0	-47.8	1.2	14.2
912.51	1.0	-49.0	-48.3	0.7	13.7
912.56	1.0	-49.0	-48.6	0.4	13.4
912.61	1.0	-49.0	-48.6	0.4	13.4
912.66	1.0	-49.0	-49.2	-0.2	12.8
912.71	1.0	-49.0	-49.2	-0.2	12.8
912.76	1.0	-49.0	-48.2	0.8	13.8
912.81	1.0	-49.0	-49.4	-0.4	12.6
912.86	1.0	-49.0	-49.1	-0.1	12.9
912.91	1.0	-49.0	-49.0	0.0	13.0



PROCESSING GAIN TEST

CHANNEL11(914.88MHz) - Base station output to handset input

Jammer Freq. (MHz)	Transmitter Outputs (dBm)	Signal Level (dBm)	CW Level (dBm)	Mj J/S ratio (dB)	Processing Gain (dB)
914.88	5.4	-44.6	-44.9	-0.3	12.7
914.93	5.4	-44.6	-44.7	-0.1	12.9
914.98	5.4	-44.6	-44.5	0.1	13.1
915.03	5.4	-44.6	-44.3	0.3	13.3
915.08	5.4	-44.6	-44.3	0.3	13.3
915.13	5.4	-44.6	-44.0	0.6	13.6
915.18	5.4	-44.6	-43.9	0.7	13.7
915.23	5.4	-44.6	-43.9	0.7	13.7
915.28	5.4	-44.6	-43.6	1.0	14.0
915.33	5.4	-44.6	-42.6	2.0	15.0
915.38	5.4	-44.6	-42.3	2.3	15.3
915.43	5.4	-44.6	-42.1	2.5	15.5
915.48	5.4	-44.6	-41.7	2.9	15.9
915.53	5.4	-44.6	-41.5	3.1	16.1
915.58	5.4	-44.6	-40.9	3.7	16.7
915.63	5.4	-44.6	-40.1	4.5	17.5
915.68	5.4	-44.6	-39.5	5.1	18.1
915.73	5.4	-44.6	-39.0	5.6	18.6
915.78	5.4	-44.6	-38.3	6.3	19.3
915.83	5.4	-44.6	-37.5	7.1	20.1
915.88	5.4	-44.6	-36.6	8.0	21.0

LOSSES(dB)

Attenuation	50
System Loss	2
S/N ratio	11

Mj J/S ratio =
CW Noise- Sig.Level

ProcessingGain =
Mj J/S ratio + Sytem Loss + S/N rat

CHANNEL9(912.96MHz) - Handset output to base station input

Jammer Freq. (MHz)	Transmitter Outputs (dBm)	Signal Level (dBm)	CW Level (dBm)	Mj J/S ratio (dB)	Processing Gain (dB)
912.96	1.0	-49.0	-48.4	0.6	13.6
913.01	1.0	-49.0	-48.6	0.4	13.4
913.06	1.0	-49.0	-48.9	0.1	13.1
913.11	1.0	-49.0	-48.6	0.4	13.4
913.16	1.0	-49.0	-47.7	1.3	14.3
913.21	1.0	-49.0	-48.0	1.0	14.0
913.26	1.0	-49.0	-47.5	1.5	14.5
913.31	1.0	-49.0	-47.4	1.6	14.6
913.36	1.0	-49.0	-47.5	1.5	14.5
913.41	1.0	-49.0	-46.8	2.2	15.2
913.46	1.0	-49.0	-46.1	2.9	15.9
913.51	1.0	-49.0	-46.1	2.9	15.9
913.56	1.0	-49.0	-46.1	2.9	15.9
913.61	1.0	-49.0	-46.7	2.3	15.3
913.66	1.0	-49.0	-48.0	1.0	14.0
913.71	1.0	-49.0	-46.5	2.5	15.5
913.76	1.0	-49.0	-44.8	4.2	17.2
913.81	1.0	-49.0	-44.8	4.2	17.2
913.86	1.0	-49.0	-44.7	4.3	17.3
913.91	1.0	-49.0	-44.6	4.4	17.4
913.96	1.0	-49.0	-43.8	5.2	18.2