



EXHIBIT 5

TECHNICAL TEST REPORT

*FCC SUBPART C
TEST REPORT*

for

900 MHZ DIGITAL SPREAD
SPECTRUM CORDLESS PHONE

Model: SKYHAWK98

Prepared for:

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DATE: JUNE 10, 1998

	REPORT BODY	APPENDICES			TOTAL
		<i>A</i>	<i>B</i>	<i>C</i>	
PAGES	101	10	7	3	121

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GENERAL REPORT SUMMARY

This electromagnetic emission and immunity test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced in any form unless done so in full.

The immunity data included in this report are not covered by NVLAP accreditation. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested: 900 MHz Digital Spread Spectrum Cordless Phone
Model: SKYHAWK98
S/N: N/A

Modifications: The EUT was modified in order to meet the specifications. Please see list located in Appendix C.

Manufacturer: S. Megga Telecommunications Limited
1 Kwai Hei Street, Kwai Chung, N.T.,
Hong Kong, People's Republic of China

Test Dates: May 22, 28, and 29, 1998

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Conducted RF Emissions, 450 kHz – 30 MHz	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.207(a)
2	Spurious Radiated RF Emissions, 10 kHz – 1000 MHz	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.209(a)
3	Fundamental and Emissions produced by the intentional radiator in non-restricted bands, 10 kHz – 10000 MHz	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.209(c)
4	Emissions produced by the intentional radiator in restricted bands, 10 kHz – 10000 MHz	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.209(a)
5	6 dB Bandwidth	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (a)(2)
6	Maximum Peak Output Power	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (b)(1)
7	RF Antenna Conducted	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (c)
8	Peak Power Spectral Density Conducted from the Intentional Radiator to the Antenna	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (d)
9	Processing Gain	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (e)

**1. PURPOSE**

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the 900 MHz Digital Spread Spectrum Cordless Phone Model: SKYHAWK98. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 1992. The tests were performed in order to determine whether the electromagnetic emissions from the 900 MHz Digital Spread Spectrum Cordless Phone, referred to as EUT hereafter, are within the specification limits defined by FCC Title 47, Part 15, Subpart C, section 15.247.

**2. ADMINISTRATIVE DATA****2.1 Location of Testing**

The EMI/EMC tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

S. Megga Telecommunications Limited

Mr. C.W. Cheung Senior Manager (R & D)

Compatible Electronics, Inc.

Brian Voegle	Test Engineer
Arnold Gaffud	Test Engineer
Kyle Fujimoto	Test Engineer
Scott McCutchan	Lab Manager

2.4 Date Test Sample was Received

The test sample was received on May 22, 1998.

2.5 Disposition of the Test Sample

The test sample has not yet been returned to S. Megga Telecommunications Limited.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

HP	Hewlett Packard	RF	Radio Frequency
P/N	Part Number	EMI	Electromagnetic Interference
LISN	Line Impedance Stabilization Network	S/N	Serial Number
ITE	Information Technology Equipment	EUT	Equipment Under Test

**3. APPLICABLE DOCUMENTS**

The following documents are referenced or used in the preparation of this EMI Test Report.

SPEC	TITLE
FCC Title 47, Part 15 1997	FCC Rules - Radio frequency devices (including digital devices).
ANSI C63.4 1992	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz.



4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

The components of the EUT were tested separately.

Specifics of the EUT and Peripherals Tested

Handset being tested: The 900 MHz Digital Spread Spectrum Cordless Phone -- Handset Model: SKYHAWK98 (EUT) was placed on the wooden table and tested in three orthogonal axis. The low (channel 1), medium (channel 10), and high (channel 20) channels were tested. The handset was transmitting to and receiving from the 900 MHz Digital Spread Spectrum Cordless Phone -- Base. The EUT was investigated for emissions while off hook. The radiated data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix A.

Base being tested: The 900 MHz Digital Spread Spectrum Cordless Phone -- Base Model: SKYHAWK98 (EUT) was placed on the wooden table. The low (channel 1), medium (channel 10), and high (channel 20) channels were tested. The base was connected to a line simulator and AC adapter via its RJ-11 and power ports, respectively. The line simulator was connected to the Comdial telephone. The base was transmitting and receiving from the 900 MHz Digital Spread Spectrum Cordless Phone -- Handset. The 900 MHz Digital Spread Spectrum Cordless Phone -- Handset was also used to dial out a number on the simulator that caused the Comdial telephone to ring. The conducted as well as radiated data was taken in this mode of operation. All initial investigations were performed with the EMI receiver in manual mode scanning the frequency range continuously. The cables were bundled and routed as shown in the photographs in Appendix A.



4.1.1 Cable Construction and Termination

HANDSET BEING TESTED

There are no cables when the handset is being tested

BASE BEING TESTED

Cable 1

This is a 6 foot unshielded cable connecting the base to the line simulator. It has an RJ-11 connector at the line simulator end and is hard wired into the base. The cable was bundled to a length of 1 meter.

Cable 2

This is a 6 foot unshielded cable connecting the telephone to the line simulator. It has an RJ-11 connector at the line simulator end and is hard wired into the telephone. The cable was bundled to a length of 1 meter.

Cable 3

This is a 6 foot unshielded round cable connecting the base to the AC adapter. It has a 1/8" power jack at the base end and is hard wired into the AC adapter.

**5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT****5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
900 MHZ DIGITAL SPREAD SPECTRUM CORDLESS PHONE	S. MEGGA TELECOMMUNICA TIONS LIMITED	SKYHAWK98	12345	CLHSKYHAWK98
CLASS 2 TRANSFORMER	S. MEGGA TELECOMMUNICA TIONS LIMITED	SKYHAWK98	N/A	N/A
LINE SIMULATOR	TELTONE	TLS-3	N/A	N/A
PHONE	COMDIAL	N/A	N/A	REG (#) A5493N- 70140-TE-T
900 MHZ DIGITAL SPREAD SPECTRUM CORDLESS PHONE	S. MEGGA TELECOMMUNICA TIONS LIMITED	SKYHAWK98	N/A	CLHSKYHAWK98

**5.2 Test Equipment**

EQUIPMENT TYPE	MANU- FACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. CYCLE
Spectrum Analyzer	Hewlett Packard	8566B	2729A04566	July 2, 1997	1 Year
Preamplifier	Com Power	PA-102	1017	February 16, 1998	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650A	2521A00924	June 16, 1997	1 Year
RF Attenuator	Com-Power	A-410	1602	November 25, 1997	1 Year
LISN	Com Power	LI-200	1764	January 3, 1998	1 Year
LISN	Com Power	LI-200	1771	January 3, 1998	1 Year
LISN	Com Power	LI-200	1775	January 3, 1998	1 Year
LISN	Com Power	LI-200	1780	January 3, 1998	1 Year
Biconical Antenna	Com Power	AB-100	1548	March 24, 1998	1 Year
Log Periodic Antenna	Com Power	AL-100	1012	February 13, 1998	1 Year
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
Turntable	Com Power	TT-100	N/A	N/A	N/A
Computer	Hewlett Packard	HP98561A	2522A05178	N/A	N/A
Printer	Hewlett Packard	2225A	2723500869	N/A	N/A
Plotter	Hewlett Packard	7440A	8726K38417	N/A	N/A
Signal Generator	Giga-Tronics	6062A	9620906	June 16, 1997	1 Year
Microwave Amplifier	Com-Power	PA-122	001	March 31, 1998	N/A
Computer	Sony	PCV-240	5104422	N/A	N/A
Horn Antenna	Antenna Research	DRG-118/A	1053	December 8, 1995	N/A



6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

For all tests, the EUT was mounted on a 1.0 by 1.5 by 0.8 meter high non-conductive table, which was placed on the ground plane.

The EUT was not grounded.



7.

TRANSMITTER

The transmitter takes baseband data, high pass filters it to remove any DC contributed by bias networks, then lowpass filters it to provide spectral shaping. After filtering, the resultant signal is modulated to the synthesized RF carrier. The modulated signal is then amplified to one of the three transmit power levels. The harmonics of the amplified signal are removed with a 1.2 GHz lowpass filter. Finally, the signal is routed through the T/R switch for transmission by the antenna.

**8. TRANSMITTER POWER**

Transmit power is herein defined as the power delivered to a 50 Ohm load at the antenna port of the T/R switch.

Power Level	Power	Accuracy
high	19 dBm	+1/ -1.5 dB
medium	7 dBm	+3/ -3 dB
low	-1 dBm	+3/ -3 dB

9. CHANNEL NUMBER AND FREQUENCIES

The RF channels occupy the frequency band 903.6-926.4 MHz and are numbered 1 to 20.

Channel Number	Channel center Frequency (MHz)
1	903.6
2	904.8
3	906.0
4	907.2
5	908.4
6	909.6
7	910.8
8	912.0
9	913.2
10	914.4
11	915.6
12	916.8
13	918.0
14	919.2
15	920.4
16	921.6
17	922.8
18	924.0
19	925.2
20	926.4

10. CHIPPING RATE

A 12-chip spreading code is used. The spreading code cyclic duration is 12 times that of the encoded data. The code starts and stops on encoded bit boundaries.

**11. SPREADING GAIN**

The spreading gain is 11 dB.

12. ANTENNA GAIN

The antenna gain is 1.5 dBi for both the base and handset.

13. PROCESSING GAIN

The Processing Gain was measured using the CW jamming margin method. Figure 1a shows the test configuration. The test consists of stepping a signal generator in 50 kHz increments across the passband of the system (up to 750 kHz away from the center frequency). The passband of the system is 1.5 MHz (± 750 kHz). At each point, the generator level required to produce the recommended Bit Error Rate (BER) (Set at BER=10 to the negative third power) is recorded. This level is the jamming level. The output power of the transmitter unit is measured at the same point. The Jammer to Signal (J/S) ratio is then calculated. Discard the worst 20% of the J/S data point. The lowest remaining J/S ratio is used to calculate the processing gain. The maximum implementation loss a system can claim in calculating processing gain is 2 dB. The equation to calculate the processing gain (Gp) is the following:

$$G_p = (S/N)_o + M_j + L_{sys}$$

Where L_{sys} = system implementation loss = 2dB

M_j = jamming margin (J/S) in dB,

$(S/N)_o$ = signal to noise ratio required for a DBPSK system with BER of 10 to the negative third power.

The theoretical GP is 11 dB



14. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

14.1 Emissions Tests

14.1.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak detector was used only where indicated in the data sheets. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage, and the spectrum analyzer offset was adjusted accordingly to read the actual data measured. The LISN output was read by the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for the conducted emissions test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 1992. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The initial test data was taken in manual mode while scanning the frequency ranges of 150 kHz to 30 MHz. The conducted emissions from the EUT were maximized for operating mode as well as cable placement. Once a predominant frequency (within 12 dB of the limit) was found, it was more closely examined with the spectrum analyzer span adjusted to 1 MHz.

The final data was collected under program control by the HP 93153B computer in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave.



SECTION 14.1.1.1

***CONDUCTED EMISSIONS
DATA SHEETS FOR THE BASE***

FCC ID: CLHSKYHAWK98

MEASUREMENT NOTES:

S. MEGGA

900 MHZ DSSS TELEPHONE

Model: SKYHAWK 98

FCC - BLACK LEAD - MAY 22, 1998 - 16:12:30

25 highest Peaks above -50 dB of Limit Line #2
peak criteria = .1 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	.4998	40.8	-7.2
2	11.57	40.8	-7.2
3	.4538	40.7	-7.3
4	.4935	40.2	-7.8
5	.4654	40.1	-7.9
6	.4752	40	-8.0
7	.5147	40	-8.0
8	.5367	39.9	-8.1
9	.4693	39.8	-8.2
10	.5212	39.5	-8.5
11	.5278	39.2	-8.8
12	.5322	38.4	-9.6
13	.5986	38.4	-9.6
14	.6374	38.3	-9.7
15	.8373	38.3	-9.7
16	.5812	38.1	-9.9
17	.5458	38	-10.0
18	.5716	38	-10.0
19	.6455	37.9	-10.1
20	.5886	37.8	-10.2
21	.5574	37.7	-10.3
22	.651	37.6	-10.4
23	.6932	37.6	-10.4
24	.6268	37.3	-10.7
25	.6817	37.3	-10.7

MEASUREMENT NOTES:

TEST ENGINEER: Scott M. Gaffud for Arnold Gaffud
ARNOLD GAFFUD

hp₁₀₀

COMPATIBLE ELECTRONICS INC. 22 May 1998 16: 12: 30
EMISSION LEVEL [dBuV] PEAK

FCC PT 15 CLASS A & B CONDUCTED
S. MEGGA
900 MHZ DSSS TELEPHONE
MODEL: SKYHAWK98
BLACK LEAD

80

CLASS A

60

CLASS B

40



20

.45

1

10

30

FREQUENCY [MHz]

FCC ID: CLHSKYHAWK98

FCC ID: CLHSKYHAWK98

MEASUREMENT NOTES:

S. MEGGA

900 MHZ DSSS TELEPHONE

MODEL: SKYHAWK 98

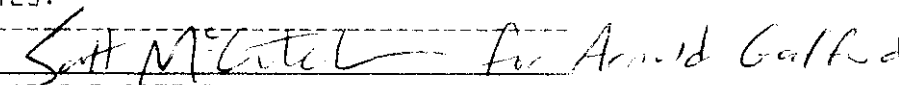
FCC - WHITE LEAD - MAY 22, 1998 - 16:16:17

25 highest Peaks above -50 dB of Limit Line #2
 peak criteria = .1 dB

PEAK#	FREQ (MHz)	(dBuV)	DELTA
1	11.1	42.3	-5.7
2	18.83	37	-11.0
3	14.58	36.4	-11.6
4	3.26	36.1	-11.9
5	7.868	36	-12.0
6	26.79	35.8	-12.2
7	.6401	35.6	-12.4
8	10.91	35.6	-12.4
9	4.618	35.4	-12.6
10	7.388	35.4	-12.6
11	21.09	35.4	-12.6
12	.4654	35.2	-12.8
13	.5212	35.2	-12.8
14	29.13	35.1	-12.9
15	4.98	35	-13.0
16	6.996	35	-13.0
17	13.69	35	-13.0
18	.4732	34.9	-13.1
19	1.317	34.9	-13.1
20	5.99	34.9	-13.1
21	20.22	34.9	-13.1
22	28.65	34.9	-13.1
23	.9657	34.8	-13.2
24	1.357	34.8	-13.2
25	1.433	34.8	-13.2

MEASUREMENT NOTES:

TEST ENGINEER:


 ARNOLD GAFFUD

COMPATIBLE ELECTRONICS INC. 22 May 1998 16: 16: 17
EMISSION LEVEL [dBuV] PEAK

hp₁₀₀

FCC PT 15 CLASS A & B CONDUCTED

S. MEGGA

900 MHZ DSSS TELEPHONE

Model: SKYHAWK 98

WHITE LEAD

CLASS A

CLASS B

FCC ID: CLHSKYHAWK98

White lead

**14.1.2****Radiated Emissions (Spurious and Harmonics) Test**

The spectrum analyzer was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies below 1 GHz, and the Com Power Microwave Amplifier Model: PA-122 was used for frequencies from 30 MHz to 1 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets. The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
10 kHz to 150 kHz	200 Hz	Active Loop Antenna
150 kHz to 30 MHz	9 kHz	Active Loop Antenna
30 MHz to 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 9.26 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 1992. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final test data.

SECTION 14.1.2.1***RADIATED EMISSIONS DATA (SPURIOUS AND
HARMONICS) FOR THE HANDSET***

FCC ID: CLHSKYHAWK98

Page: 1 of 1

Test location: Compatible Electronics
 Customer : S. Megga
 Manufacturer : Same
 EUT name : 900 MHz DSSS Telephone
 Specification: FCC_B Test distance: 3.0 mtrs
 Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00
 Test Mode :
 Spurious Emissions Test - Handset Unit

Date : 5/20/1998
 Time : 11.41
 Model: SKYHAWK 98
 Lab: D

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1V	36.09	56.70	0.50	12.17	38.96	30.40	40.00	-9.60
2V	144.08	44.40	1.15	13.18	38.69	20.04	43.50	-23.46
3V	201.67	44.20	1.40	15.84	38.98	22.46	43.50	-21.04
4V	230.47	47.50	1.44	16.55	38.68	26.82	46.00	-19.18
5V	268.90	45.90	1.68	18.76	38.68	27.66	46.00	-18.34

FCC ID: CLHSKYHAWK98

Page: 1 of 1

Test location: Compatible Electronics

Customer : S. Megga

Date : 5/21/1998

Manufacturer : Same

Time : 12.11

EUT name : 900 MHz DSSS Telephone

Model: SKYHAWK 98

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00

Test Mode :

Spurious Emissions Test - Handset Unit

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1H	124.85	50.60	1.00	11.19	39.00	23.79	43.50	-19.71
2H	144.07	50.50	1.15	13.18	38.69	26.14	43.50	-17.36
3H	153.71	48.10	1.23	13.92	38.60	24.65	43.50	-18.85
4H	198.08	44.00	1.40	15.71	38.97	22.14	43.50	-21.36
5H	230.47	44.60	1.44	16.55	38.68	23.92	46.00	-22.08
6H	240.07	47.10	1.52	16.82	38.64	26.80	46.00	-19.20

FCC ID: CLHSKYHAWK98

Page: 1 of 1

Test location: Compatible Electronics

Customer : S. Megga

Date : 5/21/1998

Manufacturer : Same

Time : 1.17

EUT name : 900 MHz DSSS Telephone

Model: SKYHAWK 98

Specification: FCC_B Test distance: 3.0 mtrs Lab: D

Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00

Test Mode :

Spurious Emissions Test - Handset Unit

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1H	307.27	51.30	1.81	14.03	38.64	28.50	46.00	-17.50
2H	316.86	48.60	1.83	14.07	38.70	25.80	46.00	-20.20
3H	326.46	51.60	1.85	14.11	38.76	28.80	46.00	-17.20
4H	336.07	46.50	1.87	14.14	38.82	23.70	46.00	-22.30
5H	345.69	45.50	1.89	14.18	38.87	22.70	46.00	-23.30
6H	355.32	46.20	1.91	14.81	38.84	24.08	46.00	-21.92
7H	364.87	54.10	1.93	15.89	38.72	33.20	46.00	-12.80
8H	374.46	53.20	1.95	16.99	38.61	33.53	46.00	-12.47
9H	384.07	50.50	1.97	18.08	38.56	31.99	46.00	-14.01
10H	393.72	49.70	1.99	19.18	38.53	32.35	46.00	-13.65
11H	403.27	47.80	2.01	19.61	38.48	30.94	46.00	-15.06
12H	643.29	47.90	3.35	19.39	38.59	32.05	46.00	-13.95
13H	662.53	47.30	3.43	19.90	38.45	32.18	46.00	-13.82



COMPATIBLE
ELECTRONICS

FCC ID: CLHSKYHAWK98

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RADIATED EMISSIONS

COMPANY NAME: S. Megga DATE: 5-22-98

EUT: 900MHz DSSS Telephone EUT S/N: N/A

EUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC CLASS: TEST DISTANCE: 3m LAB: D

ANTENNA: ☒ LOOP ☐ BICONICAL ☐ LOG ☐ HORN POLARIZATION: ☒ VERT ☒ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ☐ ENGINEER: Arnold Gaffel

NOTES: HANDSET

Frequency (kHz)	Peak Reading (dBuV)	Avg. ☐ Q.P. ☐ (dBuV)	Antenna Height (meters)	Azimuth (degrees)	Distance Factor (dB)	Antenna Gain (dB)	* Corrected Reading (dBuV)	Delta ** (dB)	Spec Limit (dBuV)
10 kHz - 30 MHz NO EMISSIONS FOUND									

* CORRECTED READING = METER READING - DISTANCE FACTOR - ANTENNA GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600

**COMPATIBLE
ELECTRONICS**

FCC ID: CLHSKYHAWK98

RADIATED EMISSIONS

COMPANY NAME: S. MEGGA DATE: 5-20-98

EUT: 900 MHz BSSS TELEPHONE EUT S/N: N/A

EUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: — TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☐ HORN

POLARIZATION: ☒ VERT ☐ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT

ENGINEER:

NOTES: LOW CHANNEL

HANDSET UNIT

[illegible]

* **CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN**

**** DELTA = CORRECTED READING - SPECIFICATION LIMIT**

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600



**COMPATIBLE
ELECTRONICS**

FCC ID: CLHSKYHAWK98

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RADIATED EMISSIONS

COMPANY NAME: S. MEGGA DATE: 5-20-98

EUT: 700 Mhz DSSS TELEPHONE EUT S/N: N/A

EUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: — TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☒ HORN

POLARIZATION: ☐ VERT ☒ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT

ENGINEER: D. J. KEBELE

NOTES: LOW CHANNEL

HANDSET UNIT

Frequency (GHz)	Peak Reading (dBuV)	Average Reading (dBuV)	Antenna Height (meters)	Azimuth (degrees)	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	* Corrected Reading (dBuV)	Delta ** (dB)	Spec Limit (dBuV)
0.9039	112.8	106.8	1.5	180°	23.3	—	33.3	96.8	—	—
1.807	63.3	57.3	2.0	0°	24.5	5.9	33.1	54.6	-22.2	76.8
2.710	52.9	46.9	1.5	90°	28.2	6.4	32.7	48.8	-5.2	54.0
3.614	48.7	42.7	1.5	90°	29.6	8.5	32.1	48.7	-5.3	54.0
4.517	41.1	35.1	2.0	180°	30.9	9.8	31.5	44.3	-9.7	54.0

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600



COMPATIBLE
ELECTRONICS

FCC ID: CLHSKYHAWK98

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RADIATED EMISSIONS

COMPANY NAME: S. MEGGA DATE: 5-20-98

EUT: 900 MHZ DSSS TELEPHONE EUT S/N: N/A

EUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: — TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☒ HORN POLARIZATION: ☒ VERT ☐ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: Brian Vellee

NOTES: MIDDLE CHANNEL
HANDSET UNIT

Frequency (GHz)	Peak Reading (dBuV)	Average Reading (dBuV)	Antenna Height (meters)	Azimuth (degrees)	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	* Corrected Reading (dBuV)	Delta ** (dB)	Spec Limit (dBuV)
0.9148	113.0	107.0	1.0	270°	23.2	—	33.2	97.0	—	—
1.828	64.6	58.6	2.0	270°	24.5	5.9	33.1	55.9	21.1	77.0
2.743	51.7	45.7	2.0	0°	28.2	6.4	32.7	47.6	-6.4	54.0
3.657	51.0	45.0	1.5	0°	29.6	8.5	32.1	51.0	-3.0	54.0
4.572	41.4	35.4	1.0	0°	30.9	9.8	31.5	44.6	-9.4	54.0

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600



RADIATED EMISSIONS

COMPANY NAME: S. MEGA DATE: 5-20-98EUT: 900 MHz DSSS TELEPHONE EUT S/N: N/AEUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURASPECIFICATION: FCC 15.247 CLASS: — TEST DISTANCE: 3M LAB: DANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☒ HORN POLARIZATION: ☐ VERT ☒ HORIZ☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: Brian VossNOTES: MIDDLE CHANNELHANDSET UNIT

Frequency (GHz)	Peak Reading (dBuV)	Average Reading (dBuV)	Antenna Height (meters)	Azimuth (degrees)	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	* Corrected Reading (dBuV)	Delta ** (dB)	Spec Limit (dBuV)
.9147	112.8	106.8	2.0	180°	23.2	—	33.2	96.8	—	—
1.828	60.4	54.4	1.5	180°	24.5	5.9	33.1	51.7	-25.1	76.8
2.743	49.0	43.0	1.5	180°	28.2	6.4	32.7	44.9	-9.1	54.0
3.657	47.2	41.2	1.5	180°	29.6	8.5	32.1	47.2	-6.8	54.0
4.572	40.8	34.8	1.5	90°	30.9	9.8	31.5	44.0	-10.0	54.0

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600

**COMPATIBLE
ELECTRONICS**

FCC ID: CLHSKYHAWK98

PAGE 5 of 6

RADIATED EMISSIONS

COMPANY NAME: S. MEGA DATE: 5-20-98

EUT: 900 MHz DSSS TELEPHONE EUT S/N: N/A

EUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FLL 15.247 CLASS: — TEST DISTANCE: 3m LAB: 0

ANTENNA: ☐ LOOP ☐ BICONICAL ☐ LOG ☒ HORN **POLARIZATION:** ☒ VERT ☐ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: D. A. - V. G. J. E.

NOTES: HIGH CHANNEL
HANDSET

[illegible]

* **CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN**

**** DELTA = CORRECTED READING - SPECIFICATION LIMIT**

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600

COMPATIBLE
ELECTRONICS

FCC ID: CLHSKYHAWK98

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RADIATED EMISSIONS

COMPANY NAME: S. MEGGA DATE: 5-20-98EUT: 900 MHz DSSS TELEPHONE EUT S/N: N/AEUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURASPECIFICATION: FCC 15.247 CLASS: — TEST DISTANCE: 3M LAB: DANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☒ HORN POLARIZATION: ☐ VERT ☒ HORIZ☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDITENGINEER: Ben VoeggeNOTES: HIGH CHANNELHANDSET UNIT

Frequency (GHz)	Peak Reading (dBuV)	Average Reading (dBuV)	Antenna Height (meters)	Azimuth (degrees)	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	* Corrected Reading (dBuV)	Delta ** (dB)	Spec Limit (dBuV)
.9268	112.2	106.2	2.0	0°	23.2	—	33.1	96.3	—	—
1.852	60.1	54.1	1.0	0°	24.5	5.7	32.9	51.4	-24.9	76.3
2.779	50.3	44.3	2.0	0°	29.7	7.4	32.4	49.0	-5.0	54.0
3.705	43.9	37.9	1.0	270°	29.6	8.5	32.1	43.9	-10.1	54.0
4.632	39.1	32.1	1.0	180°	30.9	9.8	31.5	41.3	-12.7	54.0

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600



SECTION 14.1.2.2

***RADIATED EMISSIONS DATA (SPURIOUS AND
HARMONICS) FOR THE BASE***

FCC ID: CLHSKYHAWK98

Page: 1 of 3

Test location: Compatible Electronics

Customer : S. MEGGA

Date : 5/22/1998

Manufacturer : S. MEGGA

Time : 11.41

EUT name : 900 MHz DSSS TELEPHONE

Model:

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor(20*log(test/spec)) : 0.00

Test Mode :

SPURIOUS EMISSIONS TEST - BASE UNIT

TEST ENGINEER: ARNOLD GAFFUD

QUALIFICATION DATA

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1V	33.06	63.20	0.50	12.68	38.93	37.45	40.00	-2.55
2V	33.07	61.31	0.50	12.68	38.93	35.56Qp	40.00	-4.44
3V	48.05	61.00	0.58	11.50	39.00	34.08	40.00	-5.92
4V	50.47	58.20	0.60	11.46	39.00	31.27	40.00	-8.73
5V	52.84	63.50	0.63	11.27	38.97	36.43	40.00	-3.57
6V	57.64	62.40	0.68	10.89	38.92	35.04	40.00	-4.96
7V	60.06	61.10	0.70	10.69	38.90	33.60	40.00	-6.40
8V	62.45	58.30	0.70	10.48	38.83	30.65	40.00	-9.35
9V	120.06	52.70	0.98	10.90	38.90	25.68	43.50	-17.82
10V	124.85	52.60	1.00	11.19	39.00	25.79	43.50	-17.71
11V	139.26	55.60	1.11	12.68	38.77	30.63	43.50	-12.87
12V	144.05	57.00	1.15	13.18	38.70	32.64	43.50	-10.86
13V	153.70	56.00	1.23	13.92	38.60	32.55	43.50	-10.95
14V	162.06	50.30	1.30	14.19	38.60	27.18	43.50	-16.32
15V	163.31	56.50	1.31	14.23	38.60	33.43	43.50	-10.07
16V	223.83	48.10	1.40	16.37	38.71	27.16	46.00	-18.84
17V	231.05	47.70	1.45	16.57	38.68	27.04	46.00	-18.96
18V	264.04	49.10	1.66	18.34	38.66	30.44	46.00	-15.56
19V	297.66	41.70	1.79	21.11	38.61	25.99	46.00	-20.01
20V	307.25	51.40	1.81	14.03	38.64	28.60	46.00	-17.40
21V	316.85	47.30	1.83	14.07	38.70	24.50	46.00	-21.50
22V	326.46	50.30	1.85	14.11	38.76	27.50	46.00	-18.50
23V	336.07	50.80	1.87	14.14	38.82	28.00	46.00	-18.00
24V	345.65	48.70	1.89	14.18	38.87	25.90	46.00	-20.10
25V	360.10	46.80	1.92	15.35	38.78	25.29	46.00	-20.71
26V	364.85	50.40	1.93	15.89	38.72	29.50	46.00	-16.50
27V	369.69	47.40	1.94	16.44	38.66	27.12	46.00	-18.88
28V	374.51	48.90	1.95	16.99	38.61	29.24	46.00	-16.76
29V	379.29	46.10	1.96	17.54	38.58	27.02	46.00	-18.98
30V	384.09	48.70	1.97	18.09	38.56	30.19	46.00	-15.81

FCC ID: CLHSKYHAWK98

Page: 2 of 3

Test location: Compatible Electronics

Customer : S. MEGGA

Date : 5/22/1998

Manufacturer : S. MEGGA

Time : 11.41

EUT name : 900 MHz DSSS TELEPHONE

Model:

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor($20 \cdot \log(\text{test}/\text{spec})$) : 0.00

Test Mode :

SPURIOUS EMISSIONS TEST - BASE UNIT

TEST ENGINEER: ARNOLD GAFFUD

QUALIFICATION DATA

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
31V	388.85	44.60	1.98	18.63	38.54	26.66	46.00	-19.34
32V	393.65	46.90	1.99	19.18	38.53	29.54	46.00	-16.46
33V	398.47	43.40	2.00	19.73	38.51	26.62	46.00	-19.38
34V	403.26	44.50	2.01	19.61	38.48	27.64	46.00	-18.36
35V	422.45	46.40	2.09	17.88	38.37	28.00	46.00	-18.00
36V	429.04	47.20	2.12	17.29	38.33	28.28	46.00	-17.72
37V	432.11	49.30	2.13	17.01	38.31	30.13	46.00	-15.87
38V	436.84	47.50	2.15	16.58	38.28	27.95	46.00	-18.05
39V	441.65	49.80	2.17	16.15	38.25	29.87	46.00	-16.13
40V	446.52	47.80	2.19	15.71	38.22	27.48	46.00	-18.52
41V	451.26	50.10	2.21	15.43	38.21	29.53	46.00	-16.47
42V	456.08	44.20	2.24	15.55	38.26	23.72	46.00	-22.28
43V	470.47	46.50	2.32	15.89	38.40	26.31	46.00	-19.69
44V	480.06	45.60	2.38	16.12	38.50	25.60	46.00	-20.40
45V	484.87	45.50	2.41	16.24	38.55	25.60	46.00	-20.40
46V	489.65	50.20	2.44	16.35	38.60	30.39	46.00	-15.61
47V	499.26	56.70	2.50	16.58	38.69	37.09	46.00	-8.91
48V	518.46	53.10	2.65	16.38	38.48	33.65	46.00	-12.35
49V	528.05	50.00	2.72	16.26	38.36	30.62	46.00	-15.38
50V	537.66	48.90	2.80	16.15	38.25	29.60	46.00	-16.40
51V	547.27	49.00	2.88	16.03	38.13	29.78	46.00	-16.22
52V	556.84	49.40	2.91	16.37	38.15	30.53	46.00	-15.47
53V	566.46	49.20	2.93	16.89	38.23	30.79	46.00	-15.21
54V	576.07	44.60	2.95	17.41	38.31	26.65	46.00	-19.35
55V	585.66	45.10	2.97	17.93	38.39	27.61	46.00	-18.39
56V	590.52	41.80	2.98	18.19	38.42	24.55	46.00	-21.45
57V	604.87	45.40	3.04	18.78	38.51	28.71	46.00	-17.29
58V	614.45	47.80	3.12	18.93	38.53	31.32	46.00	-14.68
59V	619.30	46.90	3.15	19.01	38.54	30.52	46.00	-15.48
60V	624.06	44.00	3.19	19.08	38.55	27.73	46.00	-18.27

FCC ID: CLHSKYHAWK98

Page: 3 of 3

Test location: Compatible Electronics

Customer : S. MEGGA

Date : 5/22/1998

Manufacturer : S. MEGGA

Time : 11.41

EUT name : 900 MHz DSSS TELEPHONE

Model:

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor(20*log(test/spec)) : 0.00

Test Mode :

SPURIOUS EMISSIONS TEST - BASE UNIT

TEST ENGINEER: ARNOLD GAFFUD

QUALIFICATION DATA

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
61V	633.66	48.40	3.27	19.24	38.57	32.34	46.00	-13.66
62V	643.32	45.60	3.35	19.39	38.59	29.75	46.00	-16.25
63V	652.85	49.50	3.41	19.59	38.57	33.93	46.00	-12.07
64V	672.09	49.60	3.44	20.21	38.33	34.92	46.00	-11.08
65V	691.27	45.50	3.48	20.82	38.10	31.70	46.00	-14.30
66V	700.86	44.80	3.51	21.14	38.00	31.44	46.00	-14.56
67V	739.30	45.20	3.74	23.06	38.16	33.84	46.00	-12.16
68V	748.87	46.40	3.79	23.54	38.20	35.54	46.00	-10.46
69V	768.08	48.60	3.94	22.88	38.02	37.40	46.00	-8.60
70V	777.64	43.60	4.02	22.49	37.92	32.19	46.00	-13.81
71V	787.27	44.40	4.10	22.11	37.83	32.78	46.00	-13.22
72V	796.85	46.30	4.17	21.73	37.73	34.47	46.00	-11.53
73V	816.06	46.40	4.20	22.08	37.83	34.85	46.00	-11.15
74V	825.65	43.50	4.20	22.37	37.91	32.16	46.00	-13.84
75V	835.25	46.30	4.20	22.66	37.98	35.18	46.00	-10.82
76V	844.86	43.70	4.20	22.95	38.06	32.79	46.00	-13.21
77V	854.45	47.10	4.19	23.12	38.05	36.36	46.00	-9.64
78V	892.86	47.50	4.11	23.27	37.59	37.30	46.00	-8.70
79V	950.46	41.50	4.30	22.99	37.01	31.79	46.00	-14.21

FCC ID: CLHSKYHAWK98

Page: 1 of 3

Test location: Compatible Electronics

Customer : S. MEGGA

Date : 5/22/1998

Manufacturer : S. MEGGA

Time : 15.00

EUT name : 900 MHz DSSS TELEPHONE

Model:

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor(20*log(test/spec)) : 0.00

Test Mode :

SPURIOUS EMISSIONS TEST - BASE UNIT

TEST ENGINEER: ARNOLD GAFFUD

QUALIFICATION DATA

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
1H	33.05	46.10	0.50	12.68	38.93	20.35	40.00	-19.65
2H	46.83	51.50	0.57	11.50	39.00	24.57	40.00	-15.43
3H	57.64	56.00	0.68	10.89	38.92	28.64	40.00	-11.36
4H	60.05	54.90	0.70	10.70	38.90	27.40	40.00	-12.60
5H	68.99	49.50	0.70	9.89	38.63	21.46	40.00	-18.54
6H	70.83	47.80	0.70	9.72	38.58	19.64	40.00	-20.36
7H	114.54	49.50	0.96	10.57	38.79	22.24	43.50	-21.26
8H	120.06	52.90	0.98	10.90	38.90	25.88	43.50	-17.62
9H	124.85	54.30	1.00	11.19	39.00	27.49	43.50	-16.01
10H	129.67	50.20	1.04	11.69	38.93	24.00	43.50	-19.50
11H	139.25	54.10	1.11	12.68	38.77	29.12	43.50	-14.38
12H	144.05	61.10	1.15	13.18	38.70	36.74	43.50	-6.76
13H	148.85	53.90	1.19	13.68	38.62	30.15	43.50	-13.35
14H	152.07	50.30	1.22	13.87	38.60	26.78	43.50	-16.72
15H	153.66	52.00	1.23	13.92	38.60	28.55	43.50	-14.95
16H	185.78	47.90	1.40	15.12	38.77	25.65	43.50	-17.85
17H	230.46	46.30	1.44	16.55	38.68	25.62	46.00	-20.38
18H	240.10	47.70	1.52	16.82	38.64	27.40	46.00	-18.60
19H	264.06	46.20	1.66	18.34	38.66	27.54	46.00	-18.46
20H	288.05	42.40	1.75	20.34	38.65	25.85	46.00	-20.15
21H	297.65	45.10	1.79	21.11	38.61	29.39	46.00	-16.61
22H	302.51	48.70	1.81	14.01	38.62	25.90	46.00	-20.10
23H	307.30	54.90	1.81	14.03	38.64	32.10	46.00	-13.90
24H	316.84	59.60	1.83	14.07	38.70	36.80	46.00	-9.20
25H	326.46	58.20	1.85	14.11	38.76	35.40	46.00	-10.60
26H	336.05	59.60	1.87	14.14	38.82	36.80	46.00	-9.20
27H	345.66	55.20	1.89	14.18	38.87	32.40	46.00	-13.60
28H	364.85	56.30	1.93	15.89	38.72	35.40	46.00	-10.60
29H	379.26	54.10	1.96	17.54	38.58	35.01	46.00	-10.99
30H	384.11	57.40	1.97	18.09	38.56	38.89	46.00	-7.11

FCC ID: CLHSKYHAWK98

Page: 2 of 3

Test location: Compatible Electronics

Customer : S. MEGGA

Date : 5/22/1998

Manufacturer : S. MEGGA

Time : 15.00

EUT name : 900 MHz DSSS TELEPHONE

Model:

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor(20*log(test/spec)) : 0.00

Test Mode :

SPURIOUS EMISSIONS TEST - BASE UNIT

TEST ENGINEER: ARNOLD GAFFUD

QUALIFICATION DATA

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
31H	388.84	52.60	1.98	18.63	38.54	34.66	46.00	-11.34
32H	398.45	52.80	2.00	19.72	38.51	36.01	46.00	-9.99
33H	403.25	54.60	2.01	19.61	38.48	37.74	46.00	-8.26
34H	412.88	51.90	2.05	18.74	38.42	34.27	46.00	-11.73
35H	432.05	49.20	2.13	17.02	38.31	30.04	46.00	-15.96
36H	436.86	48.00	2.15	16.58	38.28	28.45	46.00	-17.55
37H	451.26	56.40	2.21	15.43	38.21	35.83	46.00	-10.17
38H	465.69	53.80	2.29	15.78	38.36	33.51	46.00	-12.49
39H	470.47	59.20	2.32	15.89	38.40	39.01	46.00	-6.99
40H	475.30	51.90	2.35	16.01	38.45	31.81	46.00	-14.19
41H	480.05	57.20	2.38	16.12	38.50	37.20	46.00	-8.80
42H	484.91	53.70	2.41	16.24	38.55	33.80	46.00	-12.20
43H	489.67	59.50	2.44	16.35	38.60	39.69	46.00	-6.31
44H	499.27	59.90	2.50	16.58	38.69	40.29	46.00	-5.71
45H	508.87	55.10	2.57	16.49	38.59	35.57	46.00	-10.43
46H	518.46	54.70	2.65	16.38	38.48	35.25	46.00	-10.75
47H	528.06	56.80	2.72	16.26	38.36	37.42	46.00	-8.58
48H	537.65	52.00	2.80	16.15	38.25	32.70	46.00	-13.30
49H	576.07	44.50	2.95	17.41	38.31	26.55	46.00	-19.45
50H	614.46	45.80	3.12	18.93	38.53	29.32	46.00	-16.68
51H	624.08	44.20	3.19	19.09	38.55	27.93	46.00	-18.07
52H	662.45	48.90	3.42	19.90	38.45	33.77	46.00	-12.23
53H	672.06	51.60	3.44	20.21	38.34	36.91	46.00	-9.09
54H	681.67	49.00	3.46	20.51	38.22	34.76	46.00	-11.24
55H	691.25	49.50	3.48	20.82	38.10	35.70	46.00	-10.30
56H	700.91	51.70	3.51	21.15	38.00	38.35	46.00	-7.65
57H	720.06	45.80	3.62	22.10	38.08	33.44	46.00	-12.56
58H	739.27	48.60	3.74	23.06	38.16	37.24	46.00	-8.76
59H	758.44	48.20	3.87	23.26	38.12	37.21	46.00	-8.79
60H	768.05	50.20	3.94	22.88	38.02	39.00	46.00	-7.00

FCC ID: CLHSKYHAWK98

Page: 3 of 3

Test location: Compatible Electronics

Customer : S. MEGGA

Date : 5/22/1998

Manufacturer : S. MEGGA

Time : 15.00

EUT name : 900 MHz DSSS TELEPHONE

Model:

Specification: Fcc_B Test distance: 3.0 mtrs Lab: D

Distance correction factor(20*log(test/spec)) : 0.00

Test Mode :

SPURIOUS EMISSIONS TEST - BASE UNIT

TEST ENGINEER: ARNOLD GAFFUD

QUALIFICATION DATA

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	limit = L dBuV/m	Delta R-L dB
61H	787.26	46.30	4.10	22.11	37.83	34.68	46.00	-11.32
62H	796.85	46.10	4.17	21.73	37.73	34.27	46.00	-11.73
63H	844.86	44.10	4.20	22.95	38.06	33.19	46.00	-12.81



COMPATIBLE
ELECTRONICS

FCC ID: CLHSKYHAWK98

RADIATED EMISSIONS

PAGE 1 of 1

PAGE 216

COMPANY NAME: S. MEGGA DATE: 5-22-98

EUT: 900MHz DSSS Telephone EUT S/N: N/A

EUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC CLASS: TEST DISTANCE: 3m LAB: 0

ANTENNA: ☒ LOOP ☐ BICONICAL ☐ LOG ☐ HORN POLARIZATION: ☒ VERT ☒ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ☐ ENGINEER: Arnold Gifford

NOTES: BASE UNIT

Frequency (kHz)	Peak Reading (dBuV)	Avg. ☐ Q.P. ☐ (dBuV)	Antenna Height (meters)	Azimuth (degrees)	Distance Factor (dB)	Antenna Gain (dB)	* Corrected Reading (dBuV)	Delta ** (dB)	Spec Limit (dBuV)
10kHz - 30MHz : NO EMISSIONS FOUND									

* CORRECTED READING = METER READING - DISTANCE FACTOR - ANTENNA GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600


**COMPATIBLE
ELECTRONICS**
FCC ID: CLHSKYHAWK98

 PAGE 1 of 6
RADIATED EMISSIONS

 COMPANY NAME: S. MEGGA DATE: 5-19-98

 EUT: 900 MHz DIGITAL SPREAD SPECTRUM TELEPHONE EUT S/N: N/A

 EUT MODEL: SKYHAWK 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

 SPECIFICATION: FCC 15.247 CLASS: NONE TEST DISTANCE: 3m LAB: 0

 ANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☒ HORN

 POLARIZATION: ☒ VERT ☐ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT

 ENGINEER: DRIAN VEGELE

 NOTES: LOW CHAN - BASE UNIT

Frequency (GHz)	Peak Reading (dBuV)	Average Reading (dBuV)	Antenna Height (meters)	Azimuth (degrees)	Antenna Factor (dB)	Cable Loss (dB)	Amplifier Gain (dB)	* Corrected Reading (dBuV)	Delta ** (dB)	Spec Limit (dBuV)
1.9034	113.5	107.5	2.0	180°	23.3	-	33.3	97.5	-	-
1.807	48.8	42.8	1.5	0°	24.5	5.9	33.1	40.1	-37.4	77.5
2.710	44.0	38.0	1.0	180°	28.2	6.4	32.7	39.9	-14.1	54.0
3.614	44.0	38.0	1.0	180°	29.6	8.5	32.1	44.0	-10.0	54.0
4.518	40.3	34.3	1.0	180°	30.9	9.8	31.5	43.5	-10.5	54.0

* CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN

** DELTA = CORRECTED READING - SPECIFICATION LIMIT

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600

RADIATED EMISSIONS

COMPANY NAME: S. MEGGA DATE: 5-19-98

EUT: 900 MHz DIGITAL SPREAD SPECTRUM PHONE EUT S/N: N/A

EUT MODEL: SKYHAWK 70^D LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: none TEST DISTANCE: 3m LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☒ HORN **POLARIZATION:** ☐ VERT ☒ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: FRAN VOEGELE

NOTES: MIDDLE CHAN. - BASE UNIT

[illegible]

* **CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN**

**** DELTA = CORRECTED READING - SPECIFICATION LIMIT**

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600



PAGE 4 of 6

PAGE 211

COMPANY NAME: S. MEGA DATE: 5-19-98

EUT: 700 MHz Digital Speech Spectrum Phone EUT S/N: N/A

EUT MODEL: SKRTHALX 98 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: Noise TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☒ HORN POLARIZATION: ☒ VERT ☐ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT **ENGINEER:** DR. A. V. WHEELER

NOTES: MIDDLE CHAN. - BASE UN ET

* **CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN**

**** DELTA = CORRECTED READING - SPECIFICATION LIMIT**

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600



RADIATED EMISSIONS

COMPANY NAME: S. MEGGA DATE: 5-19-98

EUT: 900 MHz DIGITAL SPREAD SPECTRUM PHOBS EUT S/N: N/A

EUT MODEL: SKYHAWK 90 LOCATION: ☒ BREA ☐ SILVERADO ☐ AGOURA

SPECIFICATION: FCC 15.247 CLASS: WVE TEST DISTANCE: 3M LAB: D

ANTENNA: ☐ LOOP ☐ BICONICAL ☒ LOG ☒ HORN **POLARIZATION:** ☐ VERT ☒ HORIZ

☒ QUALIFICATION ☐ ENGINEERING ☐ MFG. AUDIT ENGINEER: LEAH VOEGELT

NOTES: HIGH CHAN - BASE UNIT

[illegible]

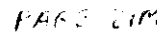
* **CORRECTED READING = METER READING + ANTENNA FACTOR + CABLE LOSS - AMPLIFIER GAIN**

**** DELTA = CORRECTED READING - SPECIFICATION LIMIT**

BREA (714) 579-0500

SILVERADO (714) 589-0700

AGOURA (818) 597-0600



**14.2****6 dB Bandwidth for Direct Sequence Systems**

The 6 dB Bandwidth was taken for both the base and handset using the spectrum analyzer. The bandwidth was measured using a direct connection from the RF out on the RF board for both the base and handset into the input of the analyzer. The resolution bandwidth was 100 kHz, and the video bandwidth 300 kHz.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.209 (a)(2). The bandwidth is at least 500 kHz.



SECTION 14.2.1

***6 dB BANDWIDTH FOR THE BASE AND HANDSET
DATA SHEETS***

h_p BANDWIDTH OF BASE CH. 1
REF 21.0 dBm ATTN 30 dB
MKR Δ-1.126 MHz
0.10 dB

10 dB/

OFFSET

1.0
dB

DL
-6.3
dBm

MARKER Δ
1.126 MHz
0.10 dB

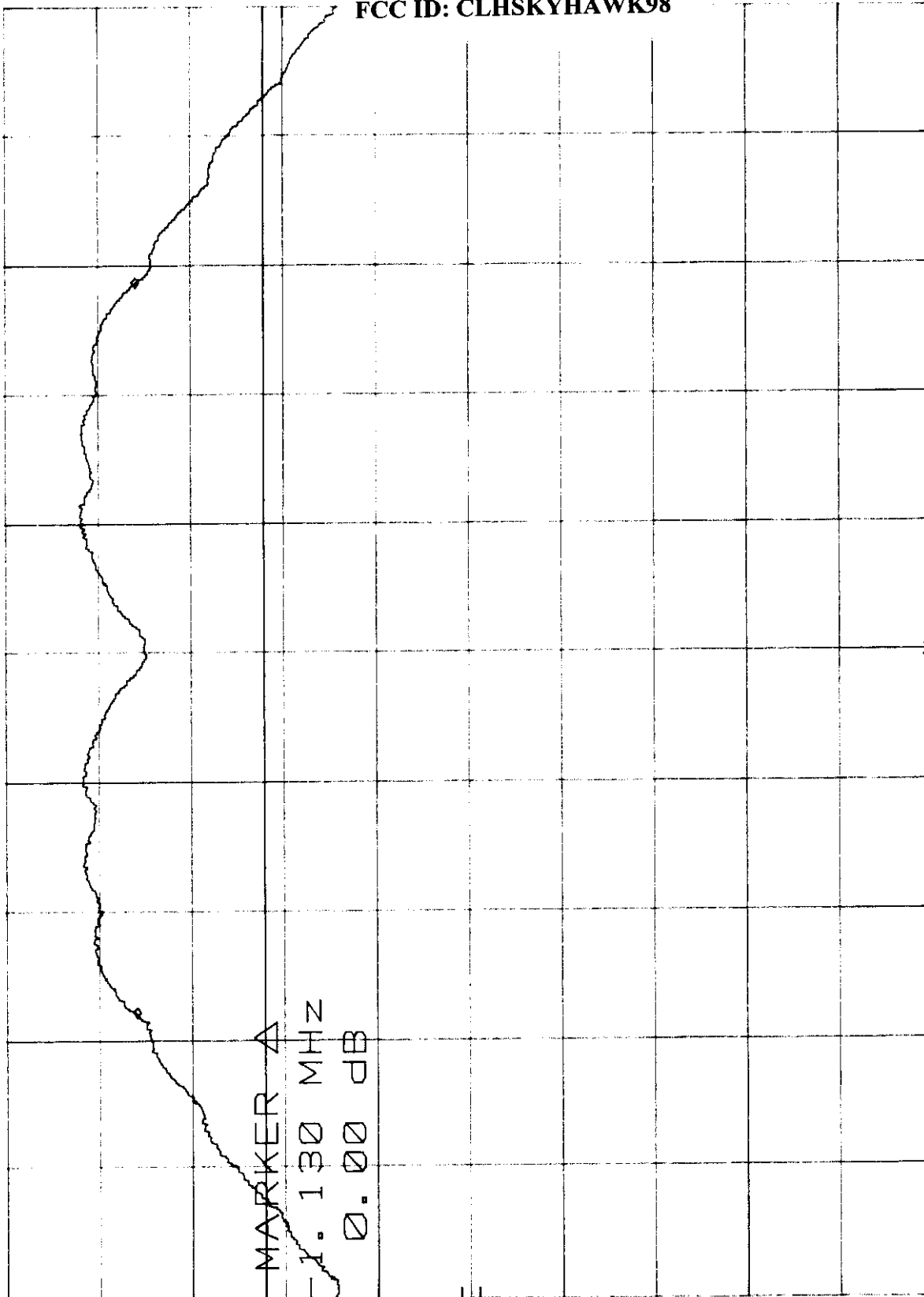
CORR'D

FCC ID: CLHSKYHAWK98

CENTER 903.60 MHz
RES BW 100 kHz
VBW 300 kHz
SPAN 2.00 MHz
SWP 20.0 msec

FCC ID: CLHSKYHAWK98

h₀ BANDWIDTH OF BASE CH. 10
 REF 21.0 dBm ATTN 30 dB
 MKR Δ-1.130 MHz
 0.00 dB



SPAN 2.00 MHz
 SWP 20.0 msec

VBW 300 kHz

CENTER 914.40 MHz
 RES BW 100 kHz

CORR'D

FCC ID: CLHSKYHAWK98

MKR Δ -1.132 MHz
0.00 dB

BANDWIDTH OF BASE CH. 20
REF 21.0 dBm ATTN 30 dB

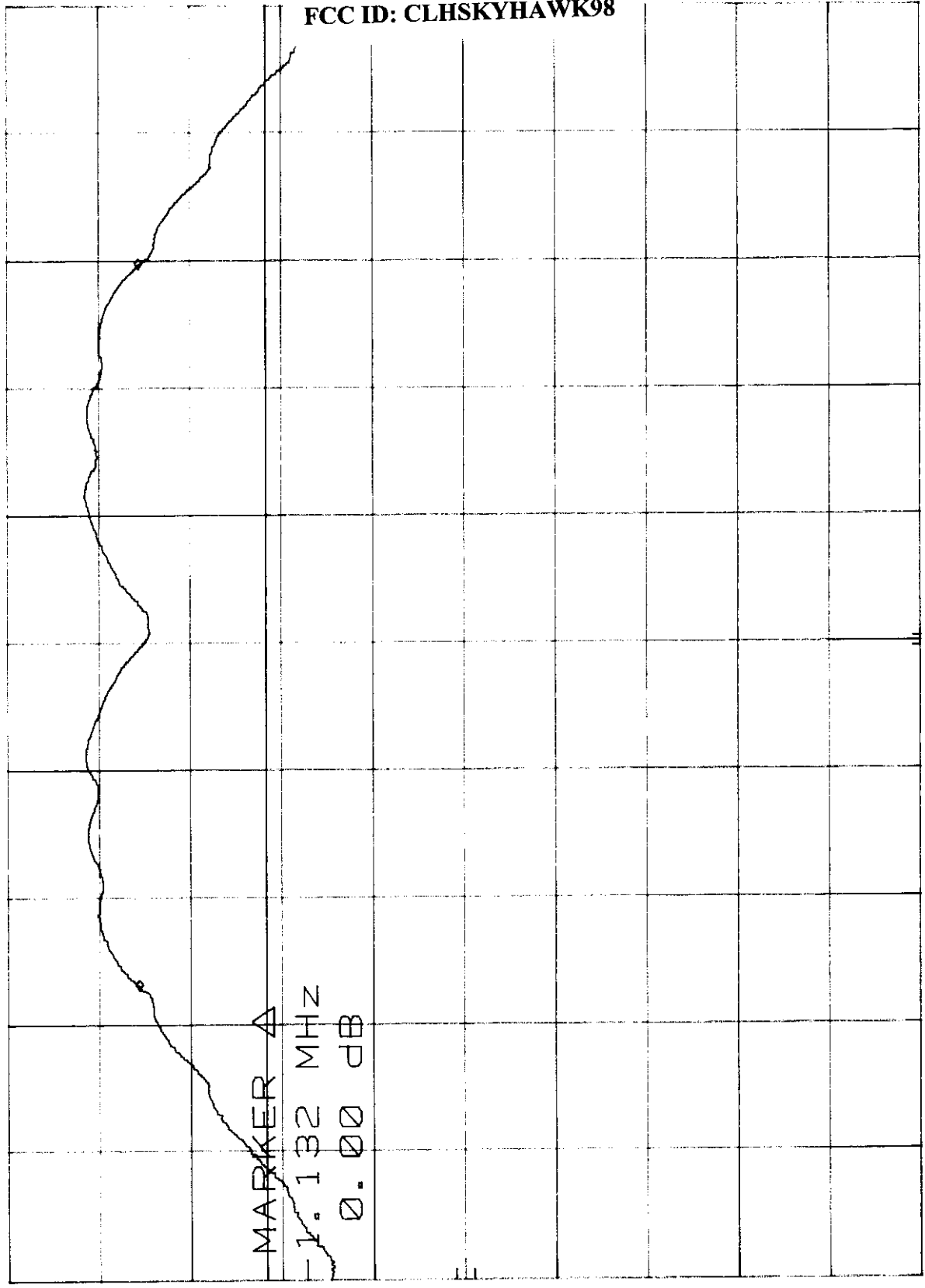
h₀

10 dB/

OFFSET
1.0
dB

DL
-7.4
dBm

CORR'D



SPAN 2.00 MHz
SWP 20.0 msec

VBW 300 kHz

CENTER 926.38 MHz
RES BW 100 kHz

FCC ID: CLHSKYHAWK98

BANDWIDTH OF HANDSET CH. 1 DATE: 5/28/98 MKR Δ -1.128 MHz
 REF 22.2 dBm ATTN 30 dB 0.10 dB

hp

10 dB/

OFFSET

2.2

dB

MARKER Δ

1.128 MHz

0.10 dB

DL

-17.8

dBm

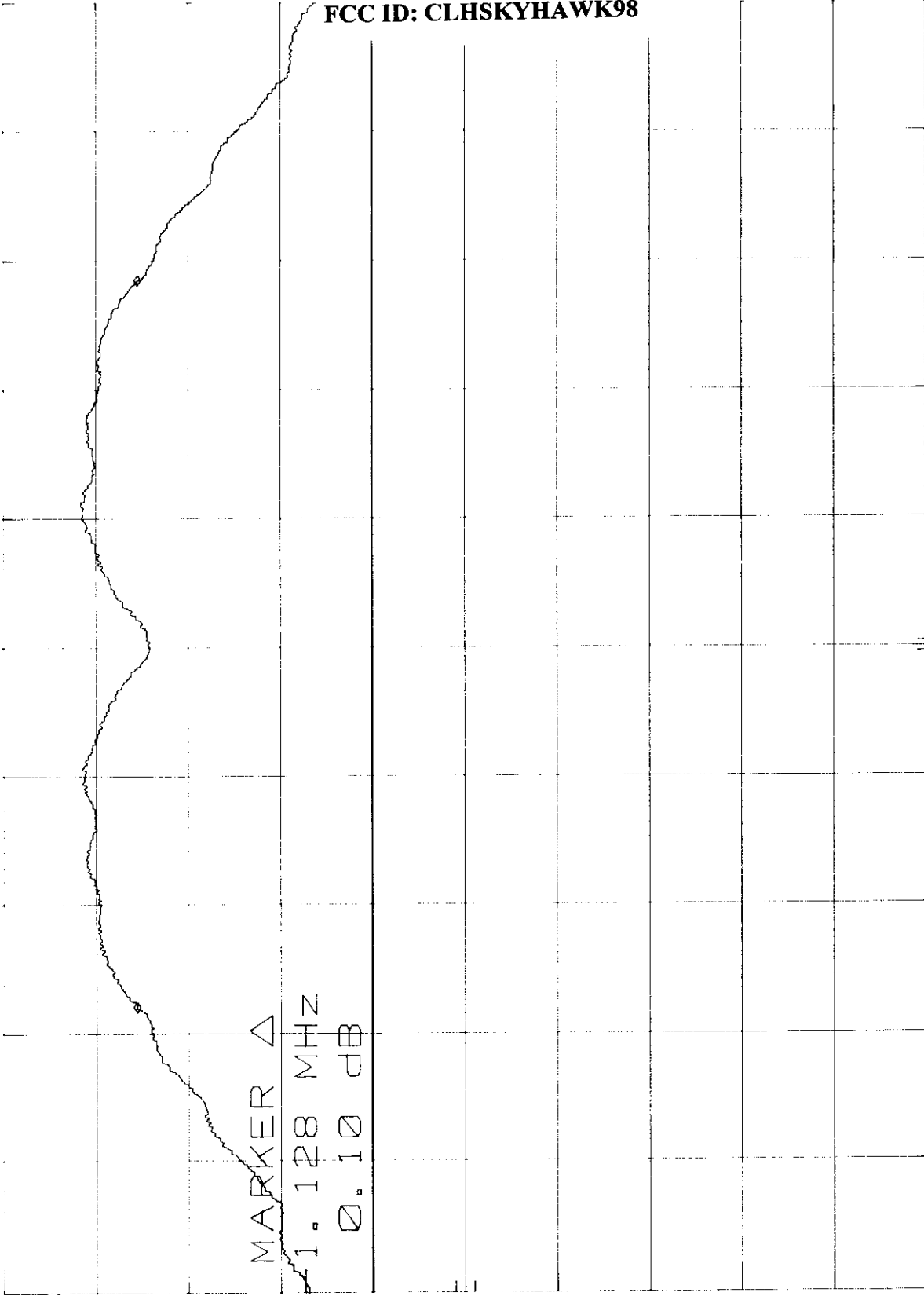
CORR'D

CENTER 903.61 MHz

RES BW 100 kHz

VBW 300 kHz

SPAN 2.00 MHz
 SWP 20.0 msec



FCC ID: CLHSKYHAWK98

BANDWIDTH OF HANDSET CH. 10 DATE: 5/28/98 MKR Δ -1.114 MHz
 REF 22.2 dBm ATTN 30 dB 0.10 dB

hp

10 dB/

OFFSET

2.2

dB

DL

-17.8

dBm

MARKER Δ

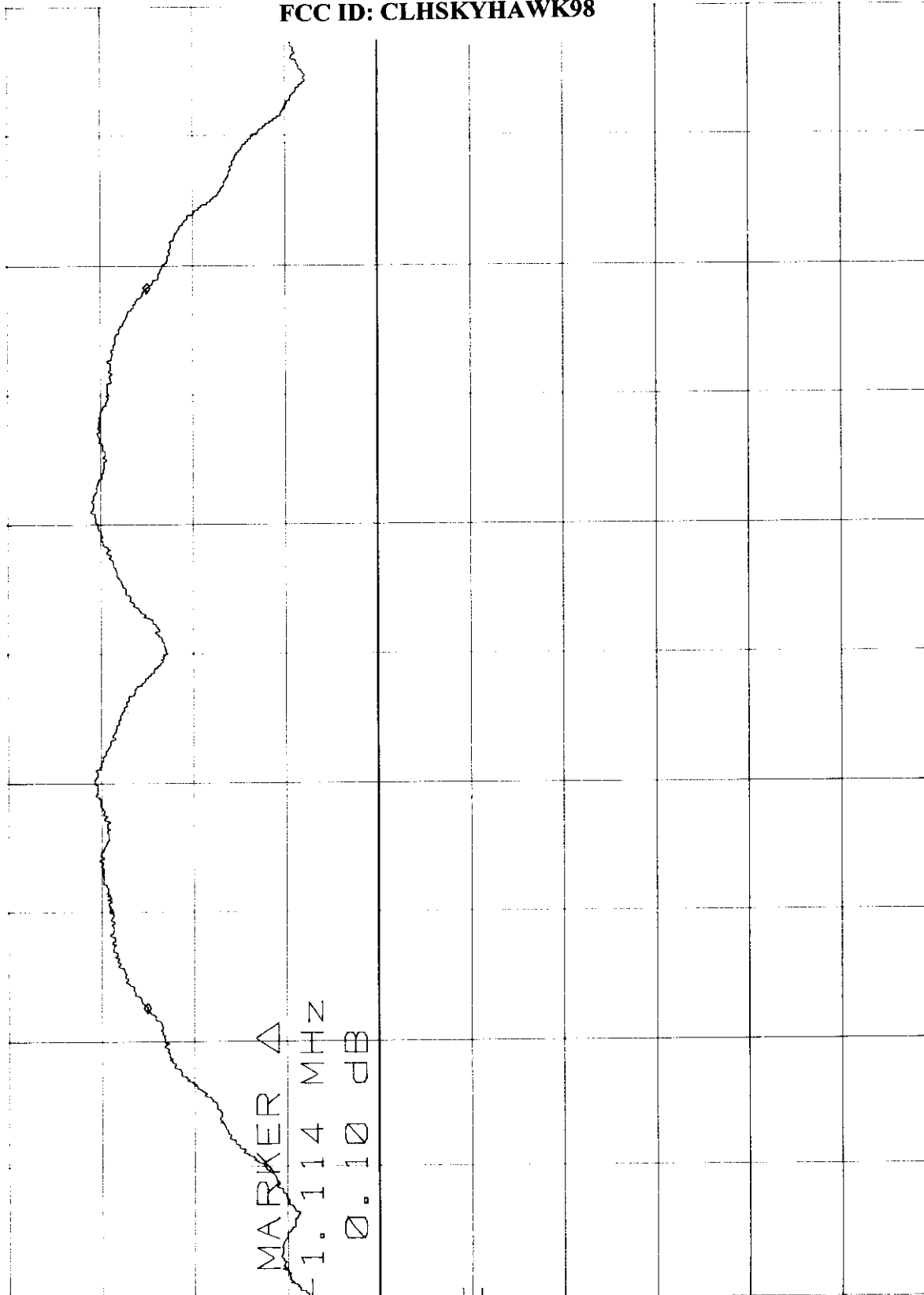
-1.114 MHz

0.10 dB

CORR'D

CENTER 914.40 MHz
 RES BW 100 kHz
 VBW 300 kHz

SPAN 2.00 MHz
 SWP 20.0 msec



BANDWIDTH OF HANDSET CH. 20 DATE: 5/28/98 MKR Δ -1.120 MHz
 REF 22.2 dBm ATTN 30 dB 0.00 dB

HP

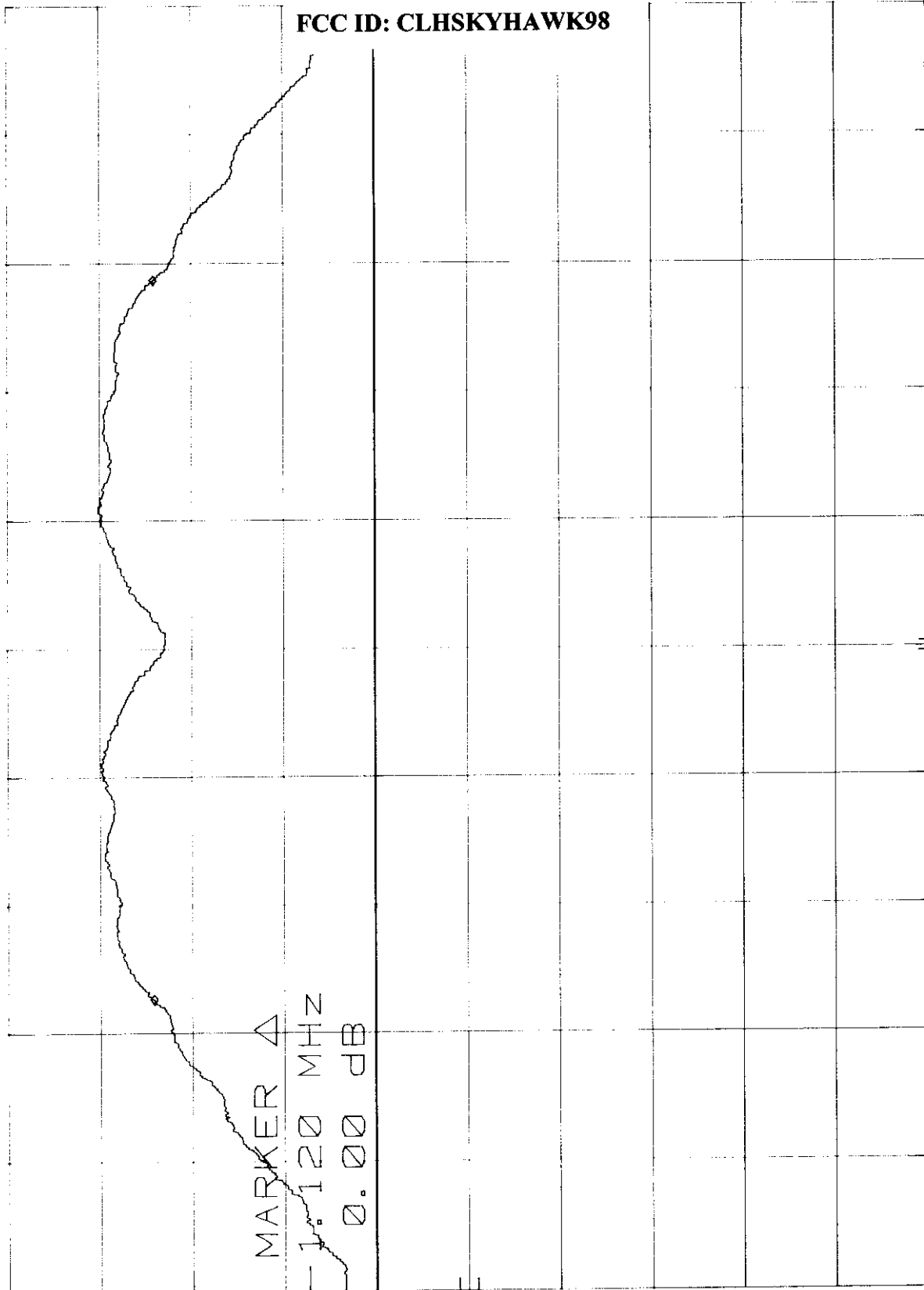
10 dB/

OFFSET
2.2
dB

DL
-17.8
dBm

MARKER Δ
-1.120 MHz
0.00 dB

FCC ID: CLHSKYHAWK98



CORR'D

CENTER 926.40 MHz
RES BW 100 KHz

VBW 300 KHz

SPAN 2.00 MHz
SWP 20.0 msec

**14.3****Peak Output Power**

The peak output power was taken for both the base and handset using the spectrum analyzer. The peak output power was measured using a direct connection from the RF out on the RF board for both the base and handset into the input of the analyzer. The resolution bandwidth was 3 MHz, and the video bandwidth 1 MHz.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.209 (b)(1). The maximum peak output power is less than 1 watt.



SECTION 14.3.1

***PEAK OUTPUT POWER FOR THE BASE AND HANDSET
DATA SHEETS***

FCC ID: CLHSKYHAWK98

POWER OUTPUT OF BASE CH. 1 DATE 5/28/98
 REF 21.0 dBm ATTEN 30 dB MKR 903.56 MHz
 18.10 dBm

h_p

10 dB/

OFFSET

1.0

dB

MARKER

903.56 MHz

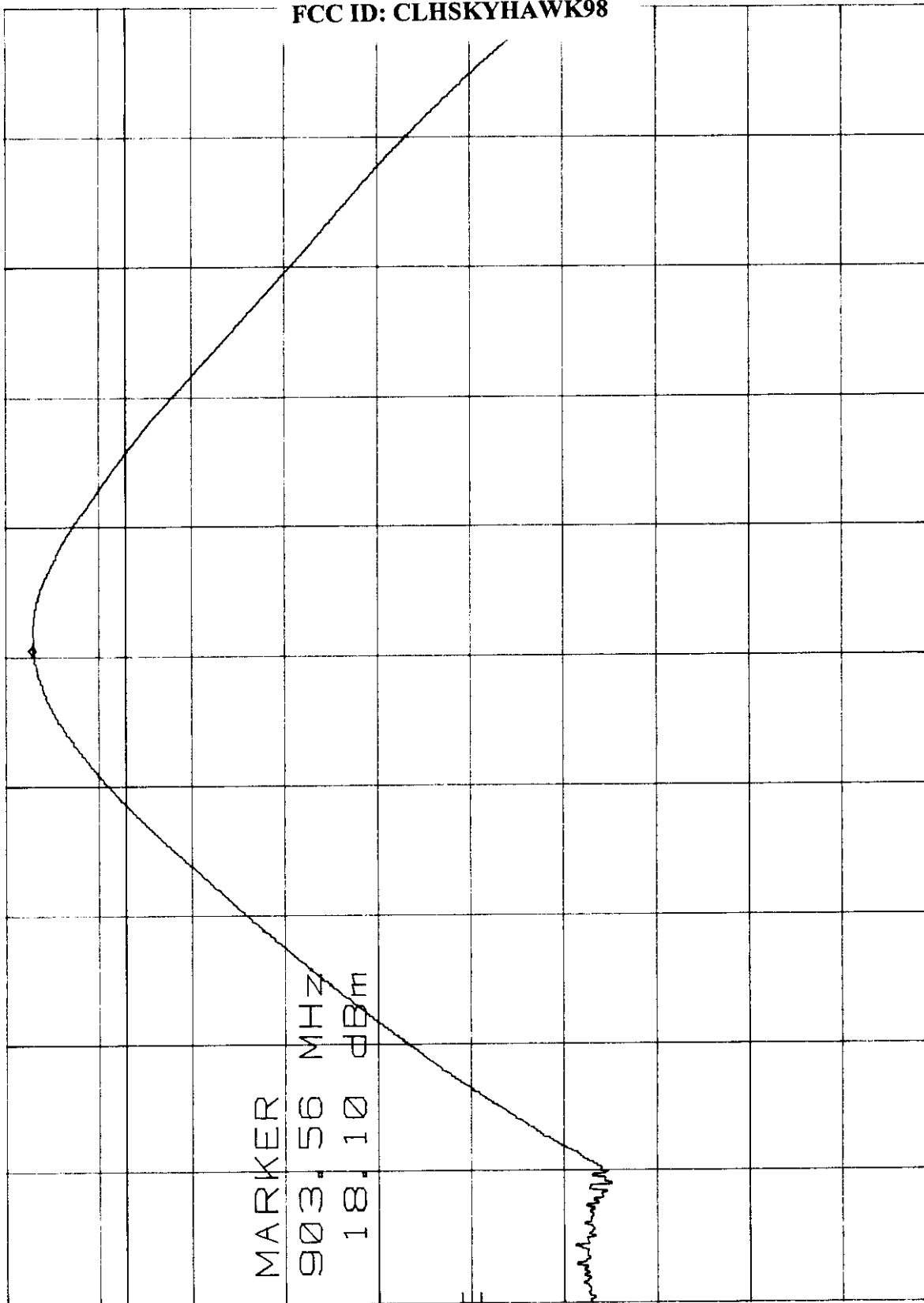
18.10 dBm

DL

8.0

dBm

CORR'D



CENTER 903.4 MHz
 RES BW 3 MHz

VBW 1 MHz

SPAN 20.0 MHz
 SWP 20.0 msec

FCC ID: CLHSKYHAWK98

POWER OUTPUT OF CH. 10 DATE 5/28/98
 REF 21.0 dBm ATTEN 30 dB MKR 914.44 MHz
 18.00 dBm

SPAN 20.0 MHz
 SWP 20.0 msec

10 dB/

hp

10 dB/

OFFSET

1.0
 dB

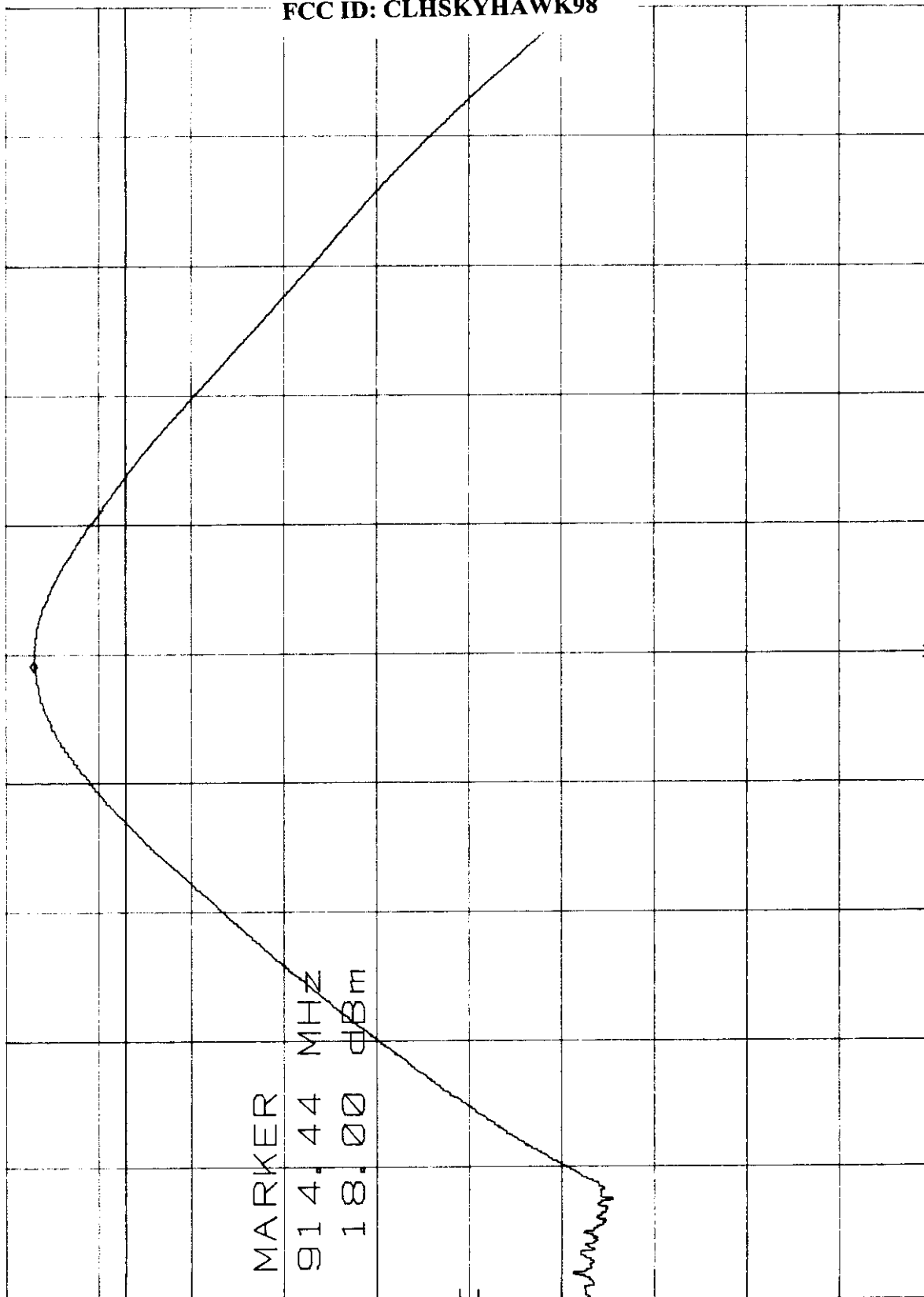
DL
 8.0
 dBm

MARKER
 914.44 MHz
 18.00 dBm

CORR'D

CENTER 914.6 MHz
 RES BW 3 MHz

VBW 1 MHz



FCC ID: CLHSKYHAWK98

POWER OUTPUT OF BASE CH. 20 DATE 5/28/98 MKR 926.68 MHz
 REF 21.0 dBm ATTEN 30 dB 16.80 dBm

HP

10 dB/

OFFSET

1.0

dB

DL

8.0

dBm

CORR'D

MARKER

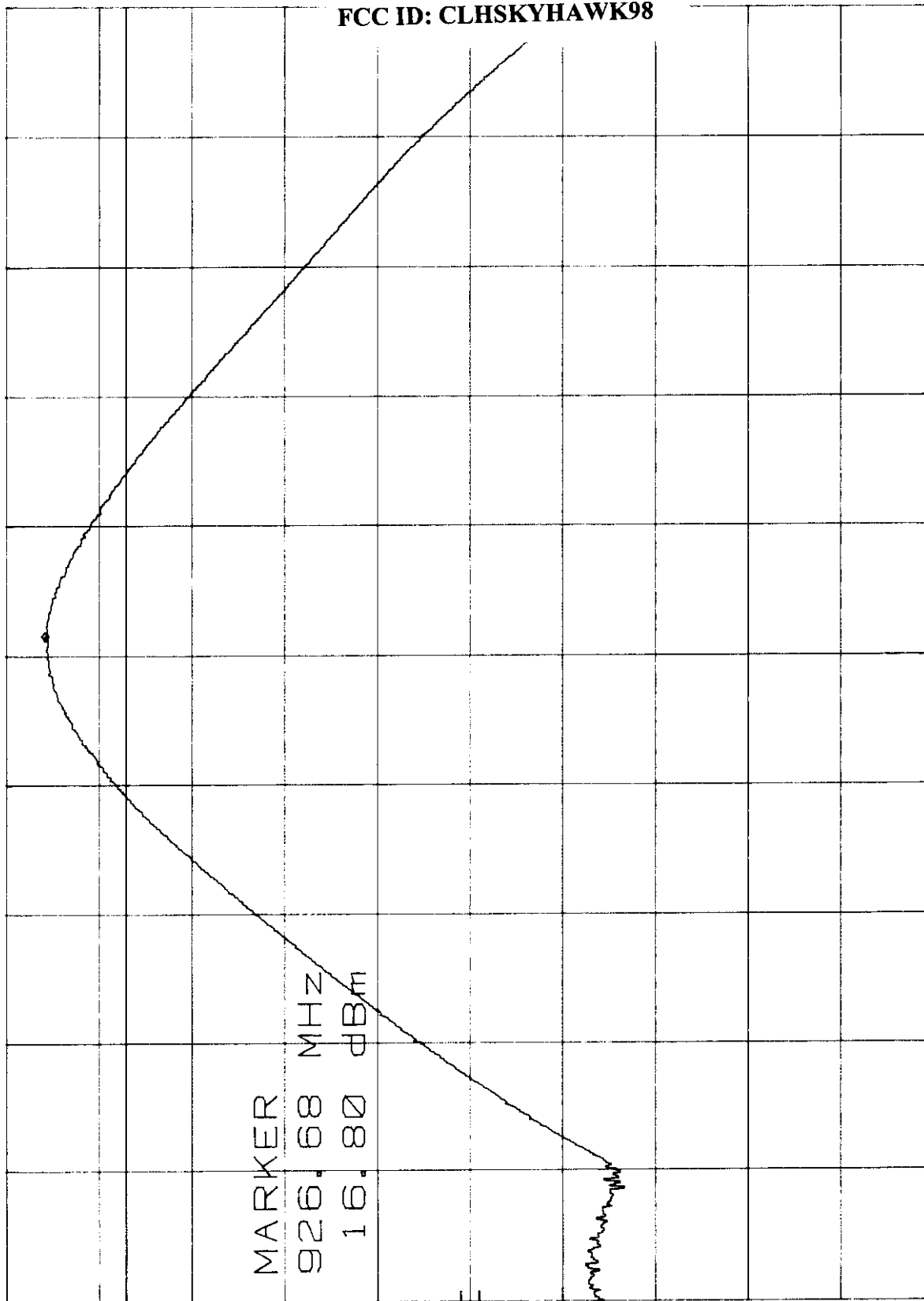
926.68 MHz

16.80 dBm

SPAN 20.0 MHz
 SWP 20.0 msec

VBW 1 MHz

CENTER 926.4 MHz
 RES BW 3 MHz



FCC ID: CLHSKYHAWK98

POWER OUTPUT OF HANDSET CH. 1 DATE 5/28/98 MKR 903.62 MHz
 REF 22.2 dBm ATTEN 30 dB 19.70 dBm

HP

10 dB/

OFFSET

2.2
dB

DL
-17.8
dBm

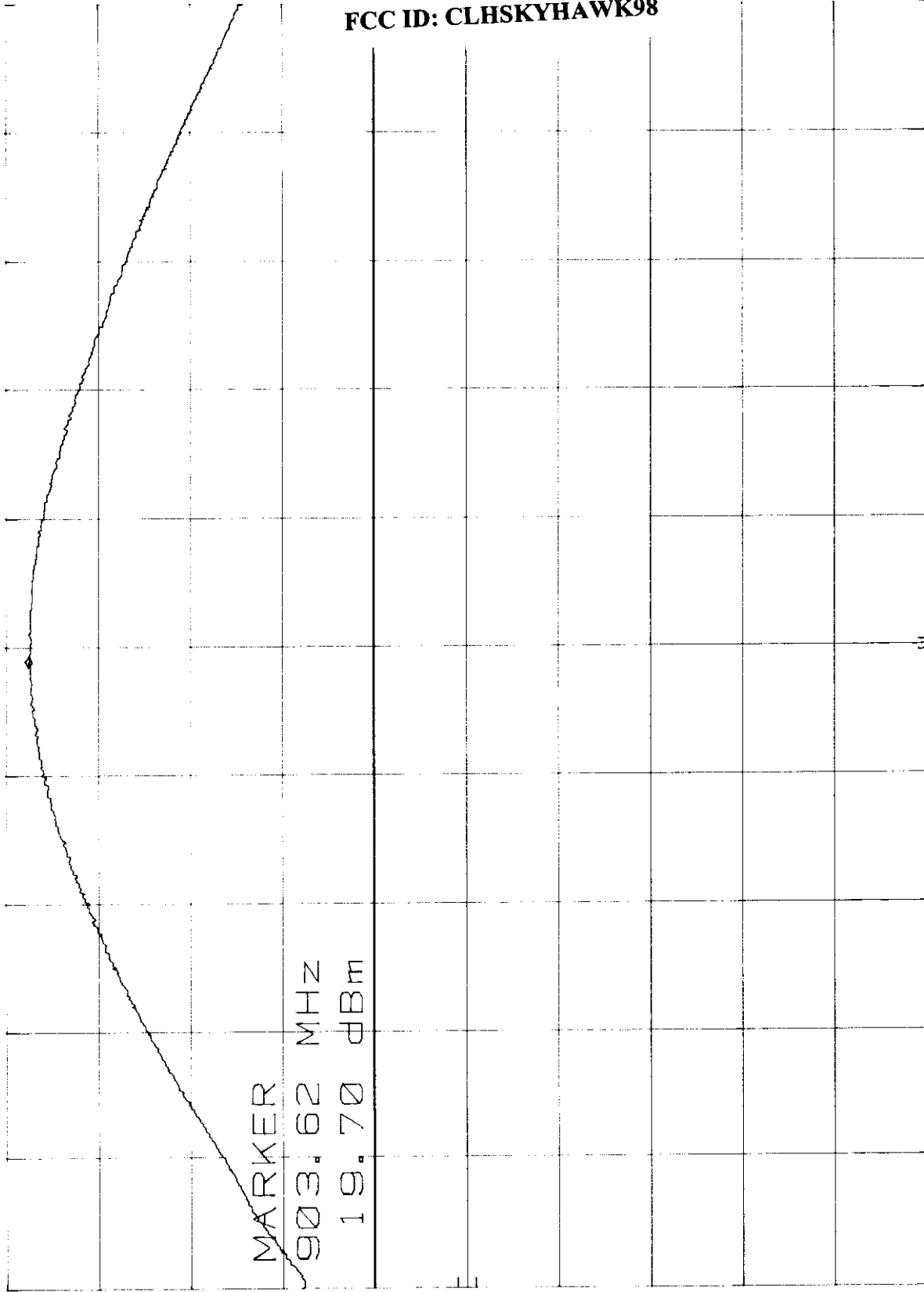
MARKER

903.62 MHz
19.70 dBm

CORR'D

CENTER 903.7 MHz
RES BW 3 MHz
VBW 1 MHz

SPAN 10.0 MHz
SWP 20.0 msec



FCC ID: CLHSKYHAWK98

POWER OUTPUT OF HANDSET CH. 10 DATE 5/28/98 MKR 914.48 MHz
REF 22.2 dBm ATTEN 30 dB 19.10 dBm

HP

10 dB/

OFFSET

2.2

dB

DL

-17.8

dBm

MARKER

914.48 MHz

19.10 dBm

CORR'D

CENTER 914.5 MHz

RES BW 3 MHz

VBW 1 MHz

SPAN 10.0 MHz
SWP 20.0 msec

FCC ID: CLHSKYHAWK98

POWER OUTPUT OF HANDSET CH. 20 DATE 5/28/98 MKR 926.62 MHz
REF 22.2 dBm ATTEN 30 dB 18.20 dBm

10 dB/

10 dB/

OFFSET
2.2
dB

DL
-17.8
dBm

MARKER

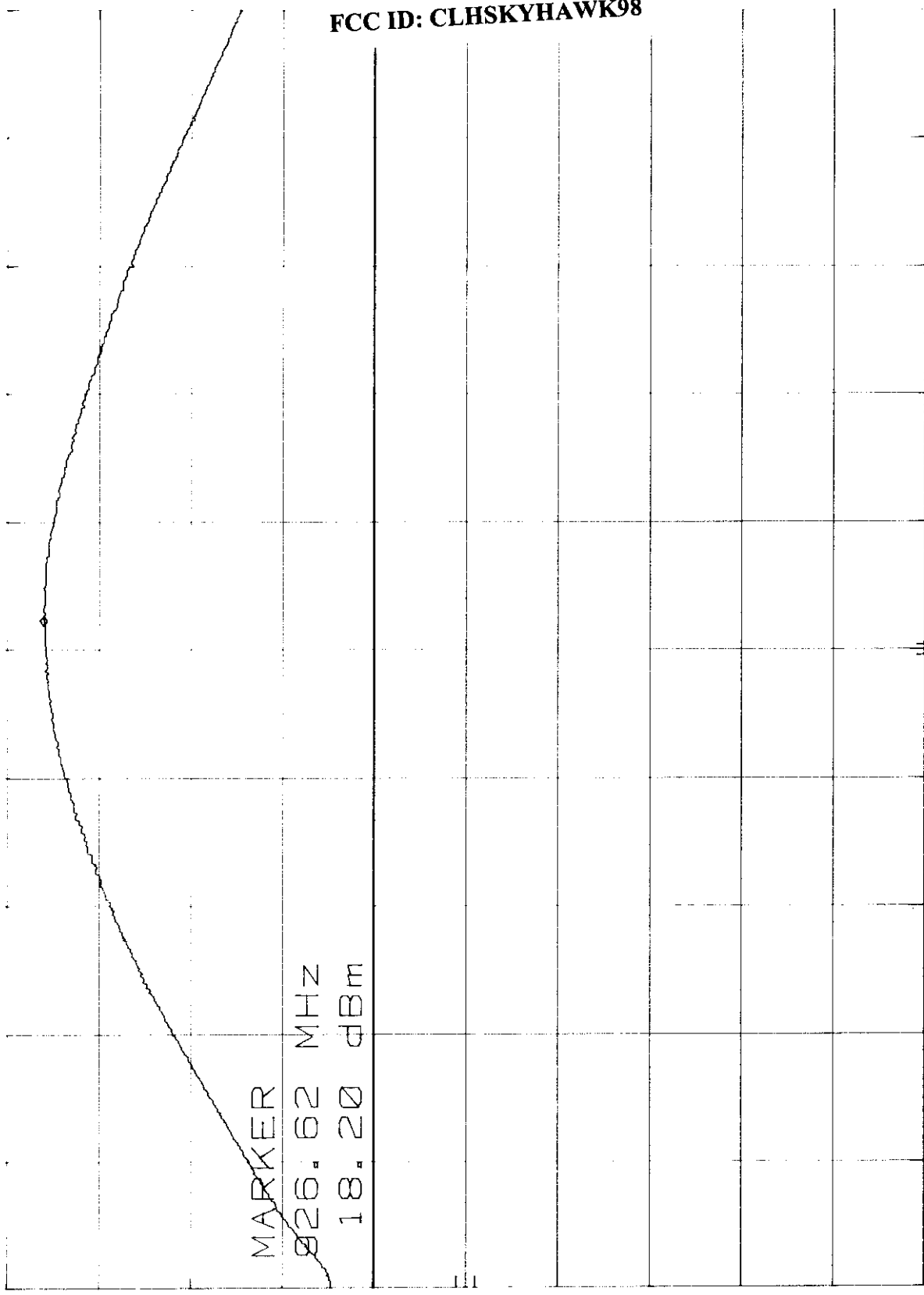
926.62 MHz
18.20 dBm

CORR'D

CENTER 926.4 MHz
RES BW 3 MHz

VBW 1 MHz

SPAN 10.0 MHz
SWP 20.0 msec



**14.4****Spectral Density Output**

The spectral density output was taken for both the base and handset using the spectrum analyzer. The spectral density output power was measured using a direct connection from the RF out on the RF board for both the base and handset into the input of the analyzer. The resolution bandwidth was 3 kHz, and the video bandwidth 10 kHz. The highest 500 kHz of the signal was used as the frequency span with the sweep rate being 1 second for every 3 kHz of span.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.209 (d). The spectral density output does not exceed 8 dBm in any 3 KHz band.



SECTION 14.4.1

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

FCC ID: CLHSKYHAWK98

SPECTRAL DENSITY OUTPUT OF BASE CH. 1 MKR 903.378 6 MHz
 REF 21.0 dBm ATTEN 30 dB
 5.70 dBm

HP

10 dB/

OFFSET

1.0

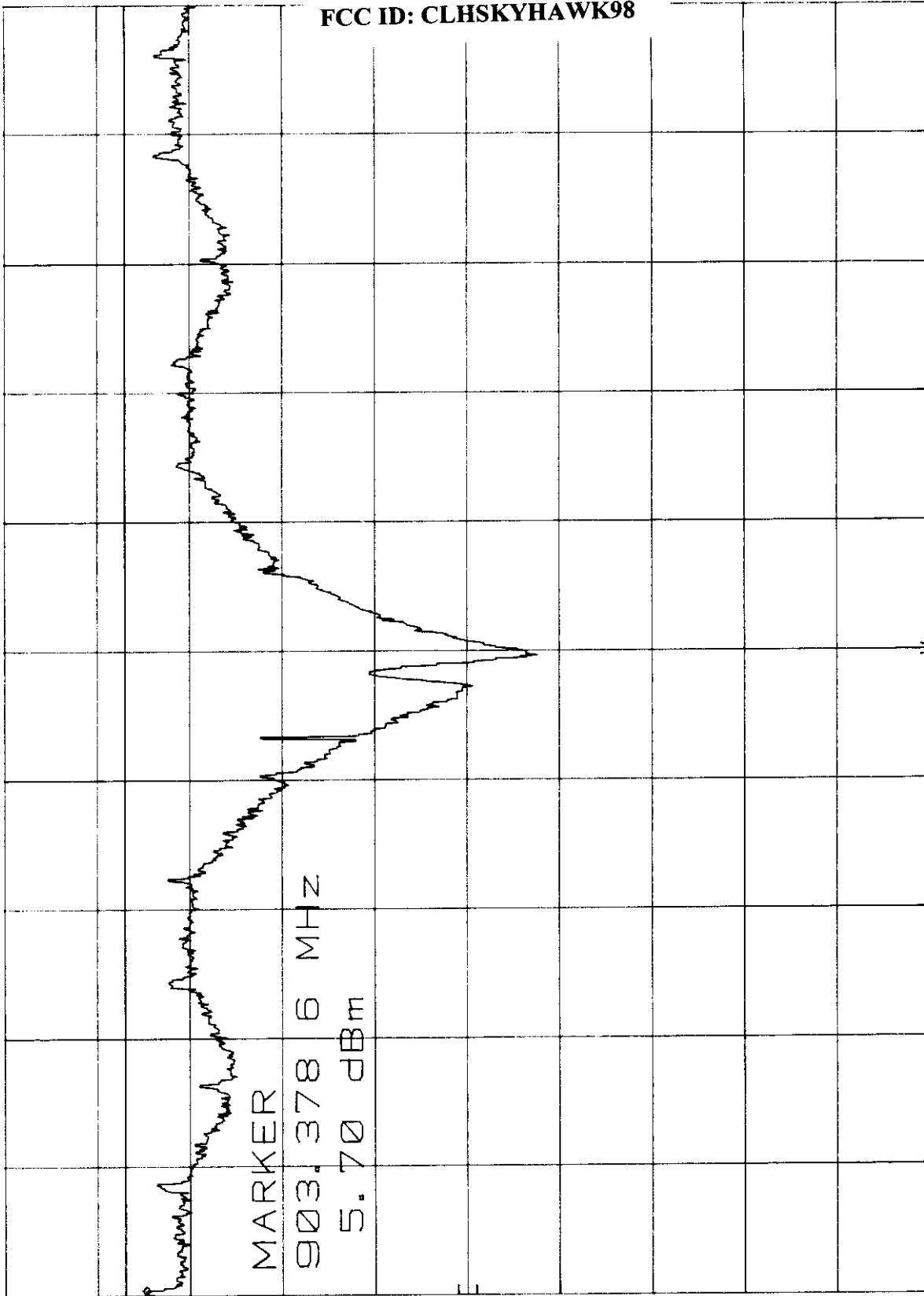
dB

DL

8.0

dBm

CORR'D



CENTER 903.626 MHz

RES BW 3 kHz

VBW 10 kHz

SPAN 499 kHz

SWP 167 sec

SPECTRAL DENSITY OUTPUT OF BASE CH. 10 MKR 914.179 6 MHz
 REF 21.0 dBm ATTEN 30 dB 6.90 dBm

hp

10 dB/

OFFSET

1.0

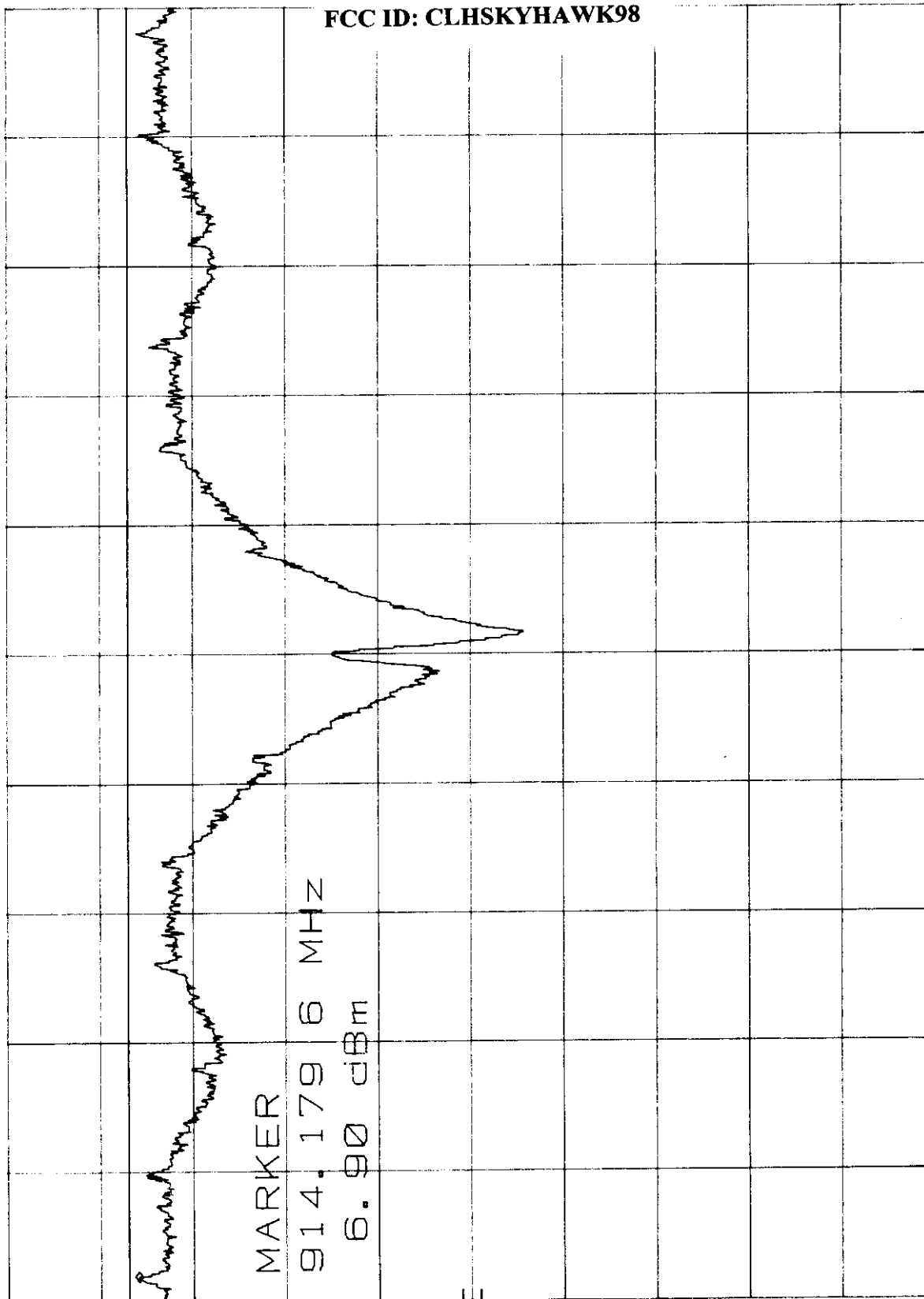
dB

DL

8.0

dBm

CORR'D



FCC ID: CLHSKYHAWK98

MARKER

914.179 6 MHz

6.90 dBm

CENTER 914.419 MHz

RES BW 3 kHz

VBW 10 kHz

SPAN 500 kHz

SWP 167 sec

SPECTRAL DENSITY OUTPUT OF BASE CH. 20 MKR 926.659 6 MHz
 REF 21.0 dBm ATTEN 30 dB 5.70 dBm

hp

10 dB/

OFFSET

1.0

dB

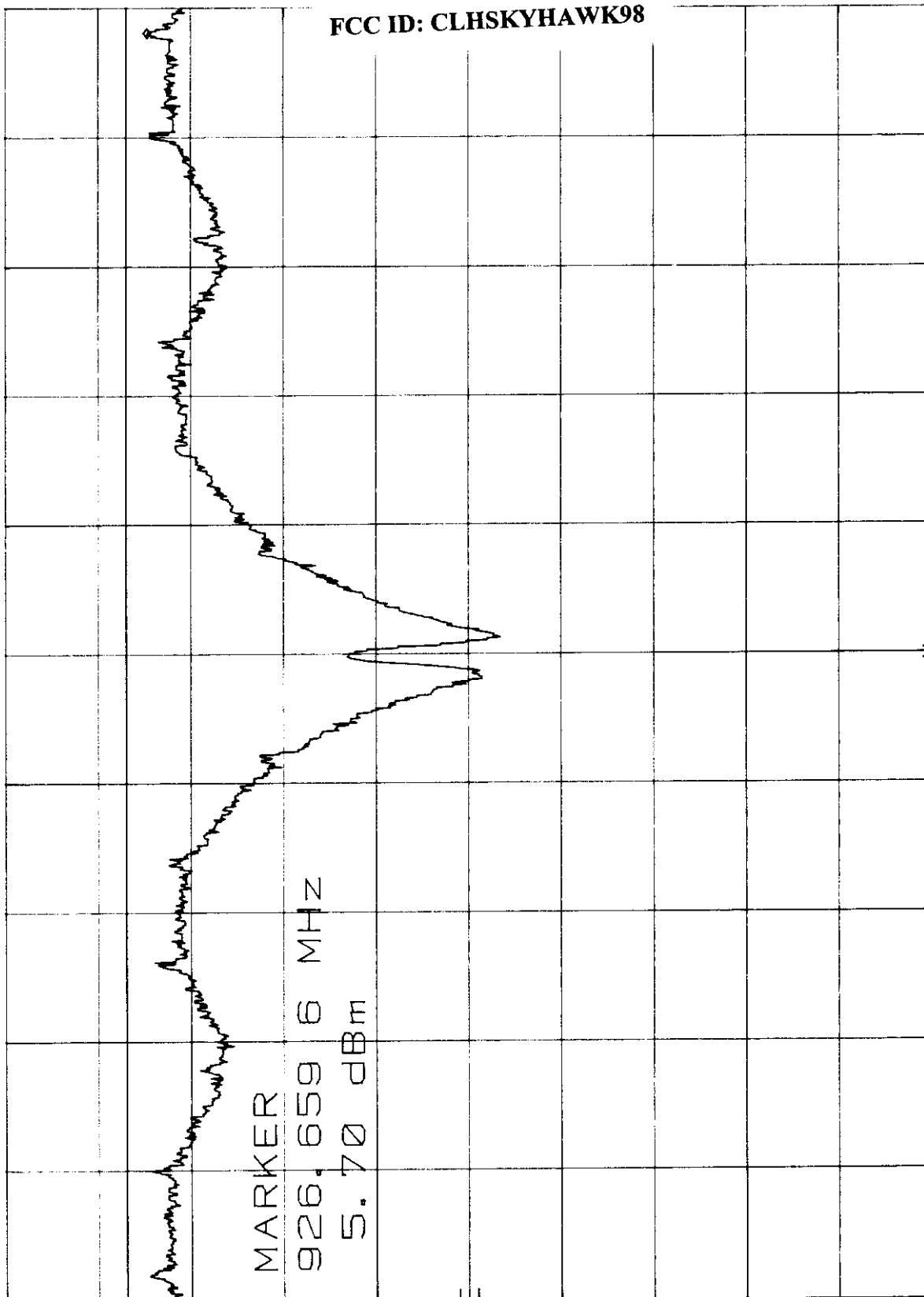
DL

8.0

dBm

CORR'D

FCC ID: CLHSKYHAWK98



CENTER 926.419 MHz

RES BW 3 kHz

VBW 10 kHz

SPAN 501 kHz

SWP 167 sec

SPECTRAL DENSITY OUTPUT - HANDSET CH. 1 MKR 903.376 1 MHz
 REF 21.0 dBm ATTEN 30 dB

HP

10 dB/

OFFSET

1.0

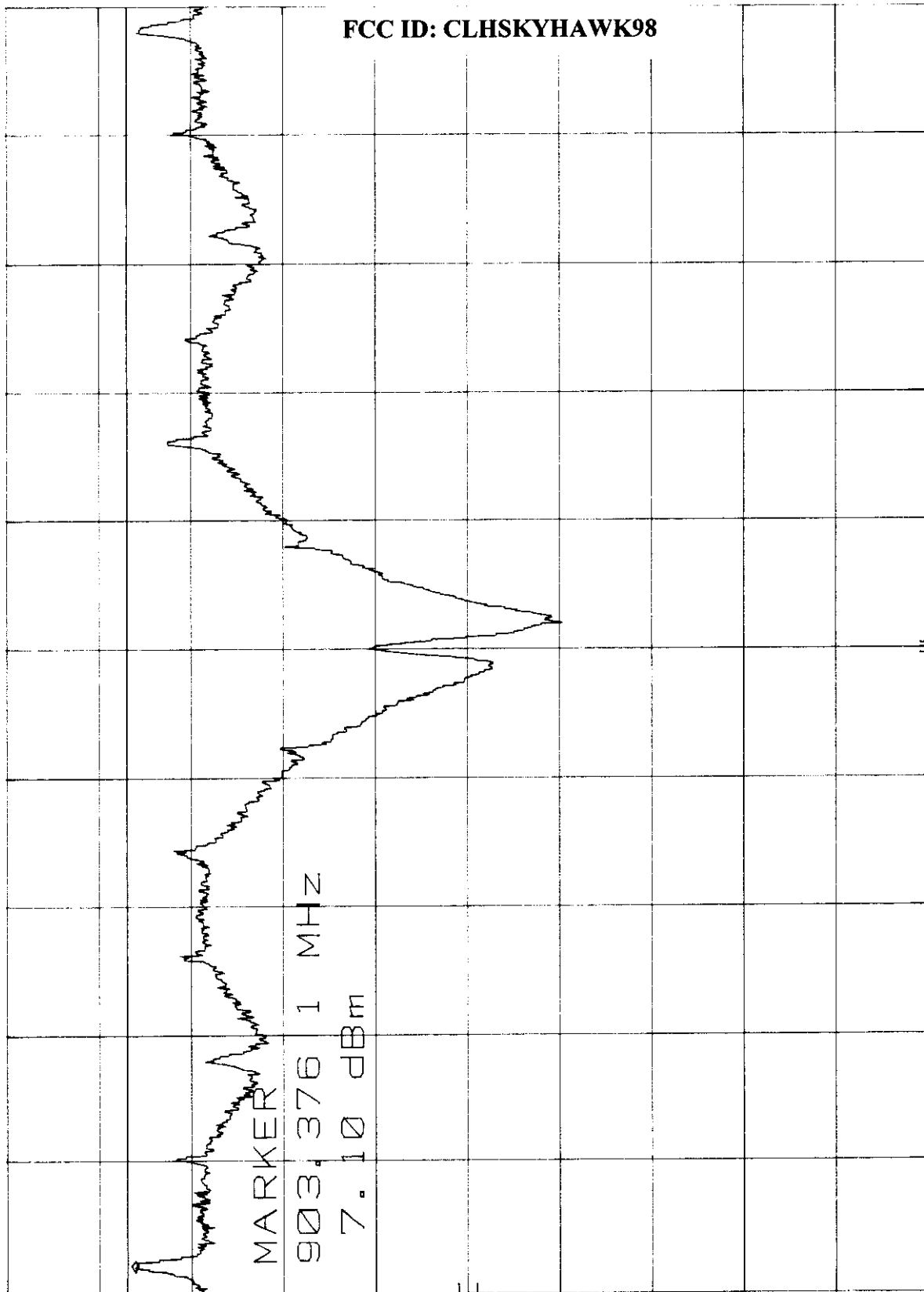
dB

DL

8.0

dBm

CORR'D



FCC ID: CLHSKYHAWK98

CENTER 903.615 MHz
 RES BW 3 kHz

VBW 10 kHz

SPAN 500 kHz
 SWP 167 sec

SPECTRAL DENSITY OUTPUT - HANDSET CH. 10 MKR 914.176 6 MHz
REF 21.0 dBm ATTEN 30 dB

hp

10 dB/

OFFSET

1.0

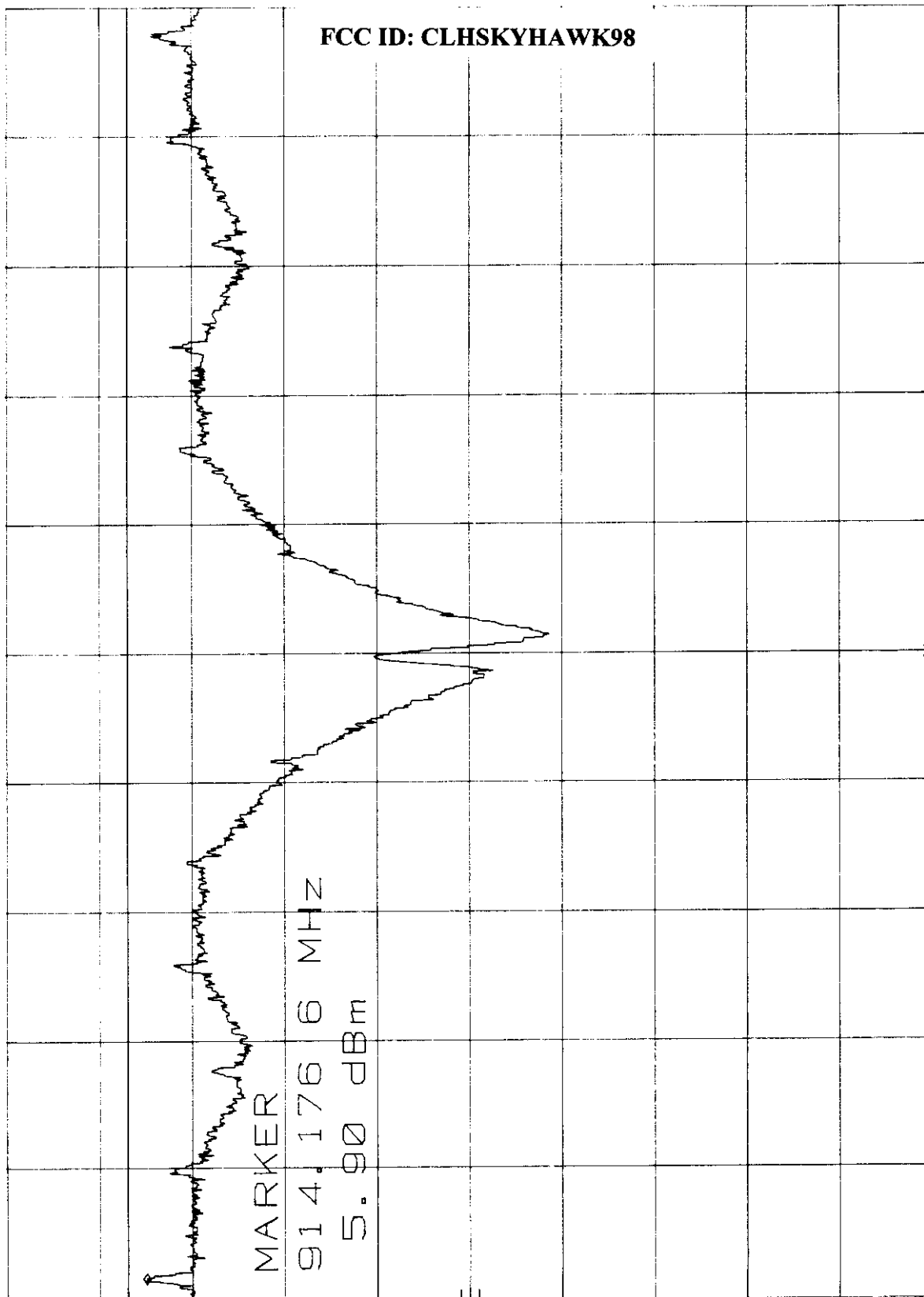
dB

DL

8.0

dBm

CORR'D



CENTER 914.417 MHz

RES BW 3 kHz

VBW 10 kHz

SPAN 500 kHz
SWP 167 sec

SPECTRAL DENSITY OUTPUT - HANDSET CH. 20 MKR 926.177 6 MHz
REF 21.0 dBm ATTN 30 dB 5.00 dBm

hp

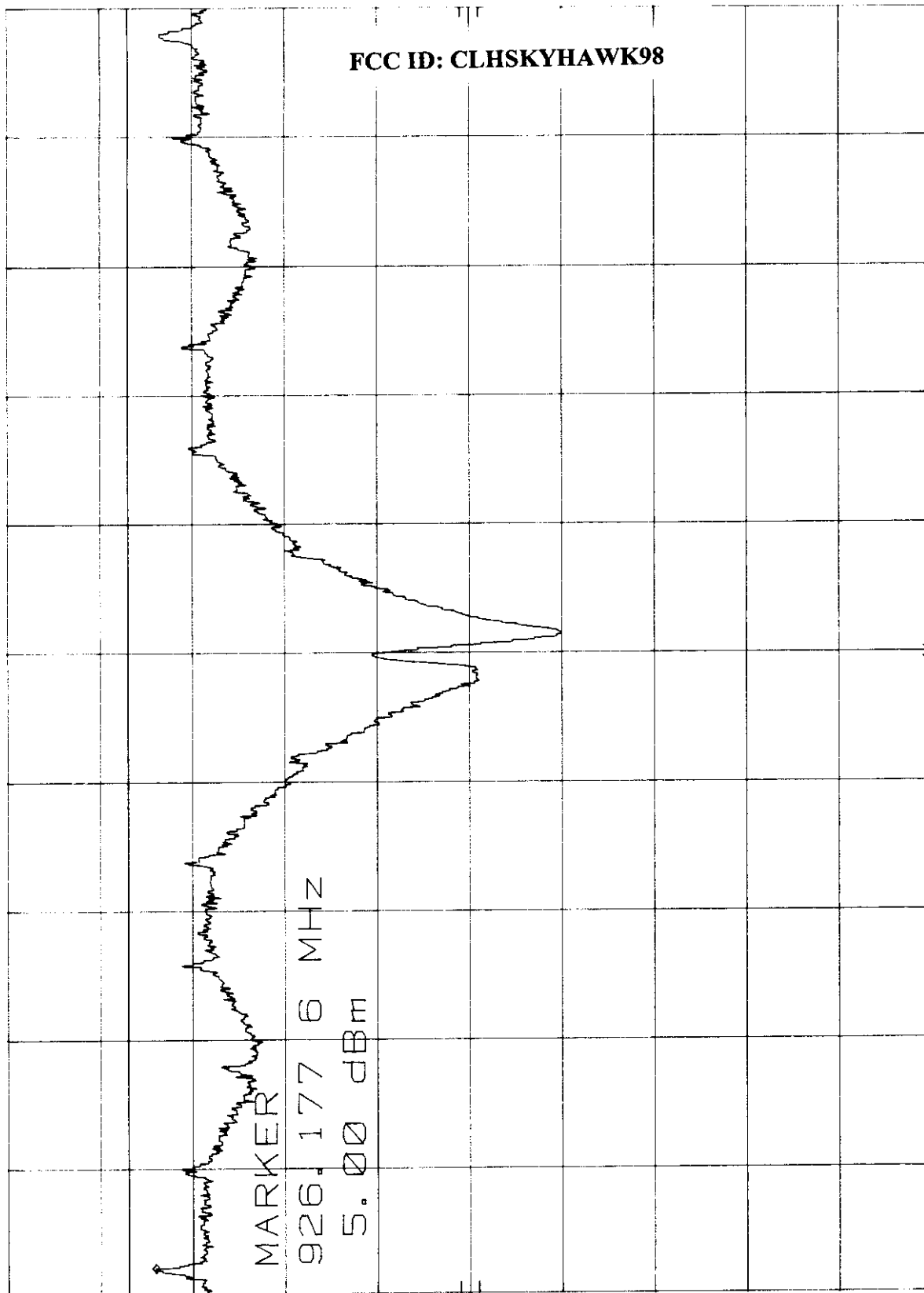
10 dB/

OFFSET

1.0
dB

DL
8.0
dBm

CORR'D



CENTER 926.417 MHz SPAN 500 KHz
RES BW 3 KHz SWP 167 sec
VBW 10 KHz

**14.5****RF Antenna Conducted Test**

The RF antenna conducted test was taken for both the base and handset using the spectrum analyzer. The RF antenna conducted test was measured using a direct connection from the RF out on the RF board for both the base and handset into the input of the analyzer. The resolution bandwidth was 100 kHz, and the video bandwidth 300 kHz. The spans were wide enough to include all the harmonics and emissions that were produced by the intentional radiator.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.209 (c). The RF power that is produced by the intentional radiator is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power.

SECTION 14.5.1***RF ANTENNA CONDUCTED FOR THE BASE
AND HANDSET
DATA SHEETS***

RF. ANT. COND. TEST - BASE CH. 1
REF 21.0 dBm ATTN 30 dB

h_p MKR 906 MHz
13.00 dBm

10 dB/

OFFSET

1.0
dB

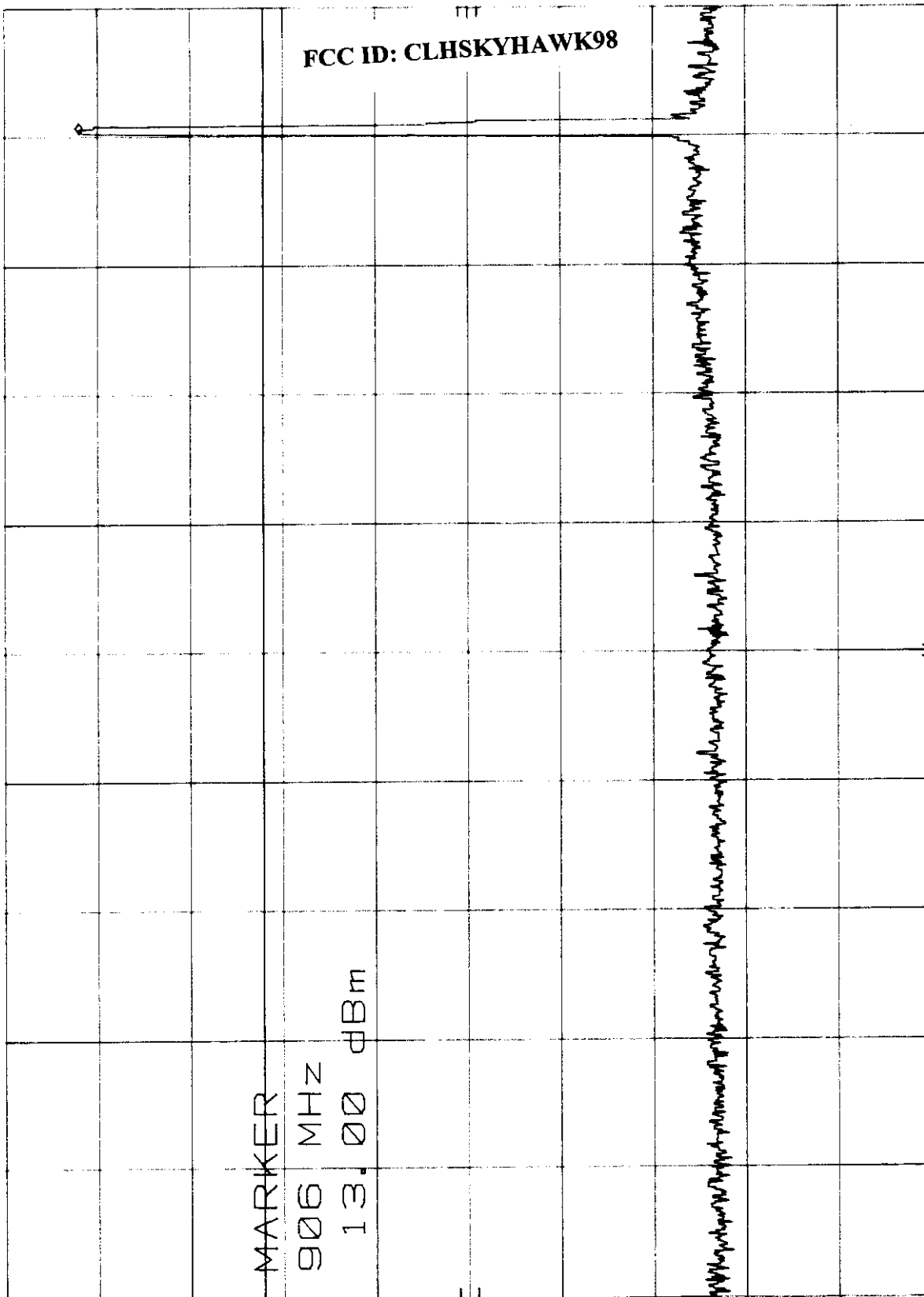
DL
-7.0
dBm

MARKER

906 MHz
13.00 dBm

CORR'D

FCC ID: CLHSKYHAWK98



START 2 MHz

RES BW 100 kHz

VBW 300 kHz

STOP 1.00 GHz

SWP 299 msec

RF. ANT. COND. TEST - BASE CH. 1 MKR 1.809 GHz
REF 21.0 dBm ATTN 30 dB -41.00 dBm

HP

10 dB/

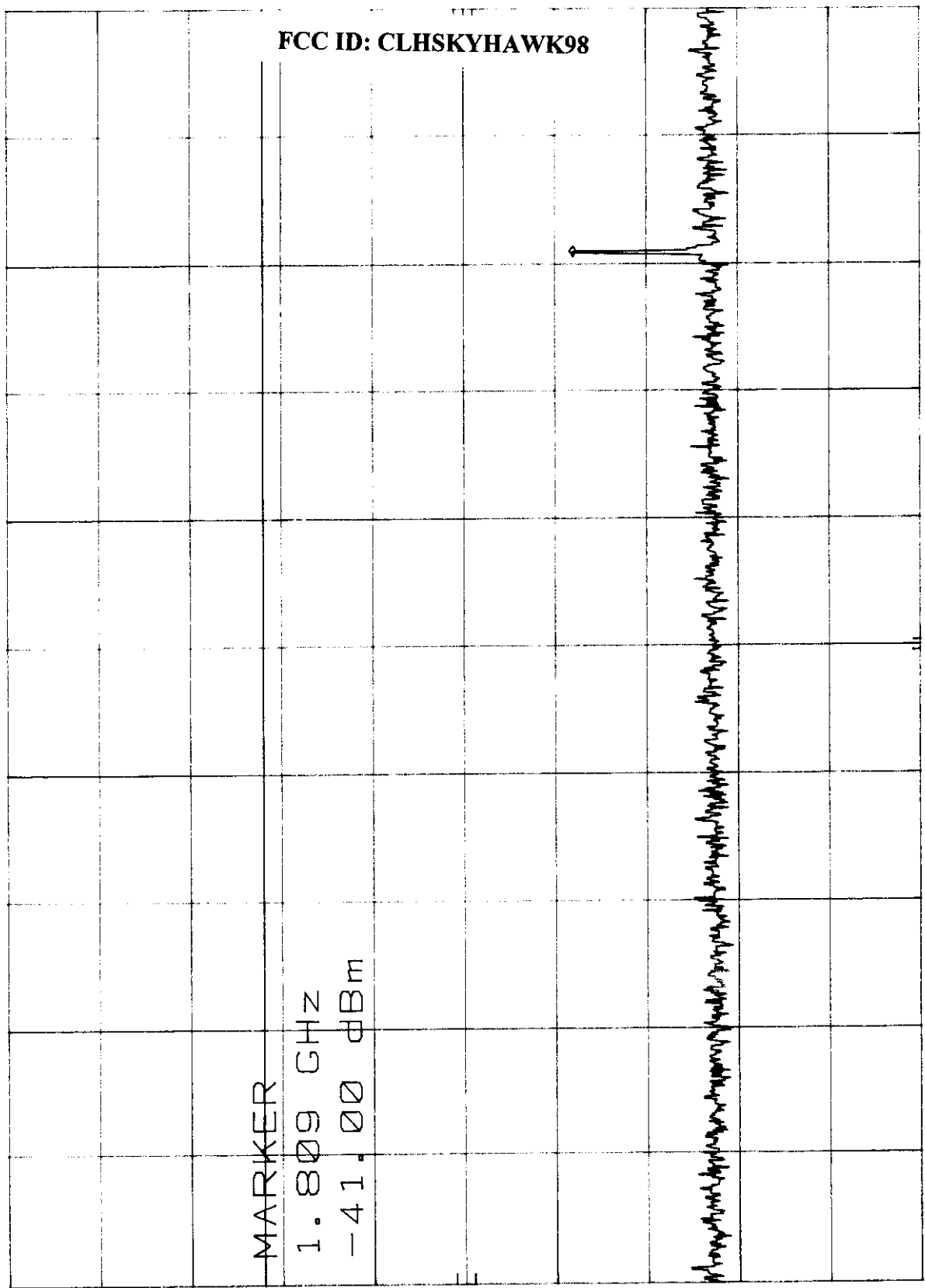
OFFSET
1.0
dB

DL
-7.0
dBm

MARKER

1.809 GHz
-41.00 dBm

CORR'D



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

RF. ANT. COND. TEST - BASE CH. 1
REF 21.0 dBm ATTEN 30 dB
MKR 6.616 GHz
-49.00 dBm

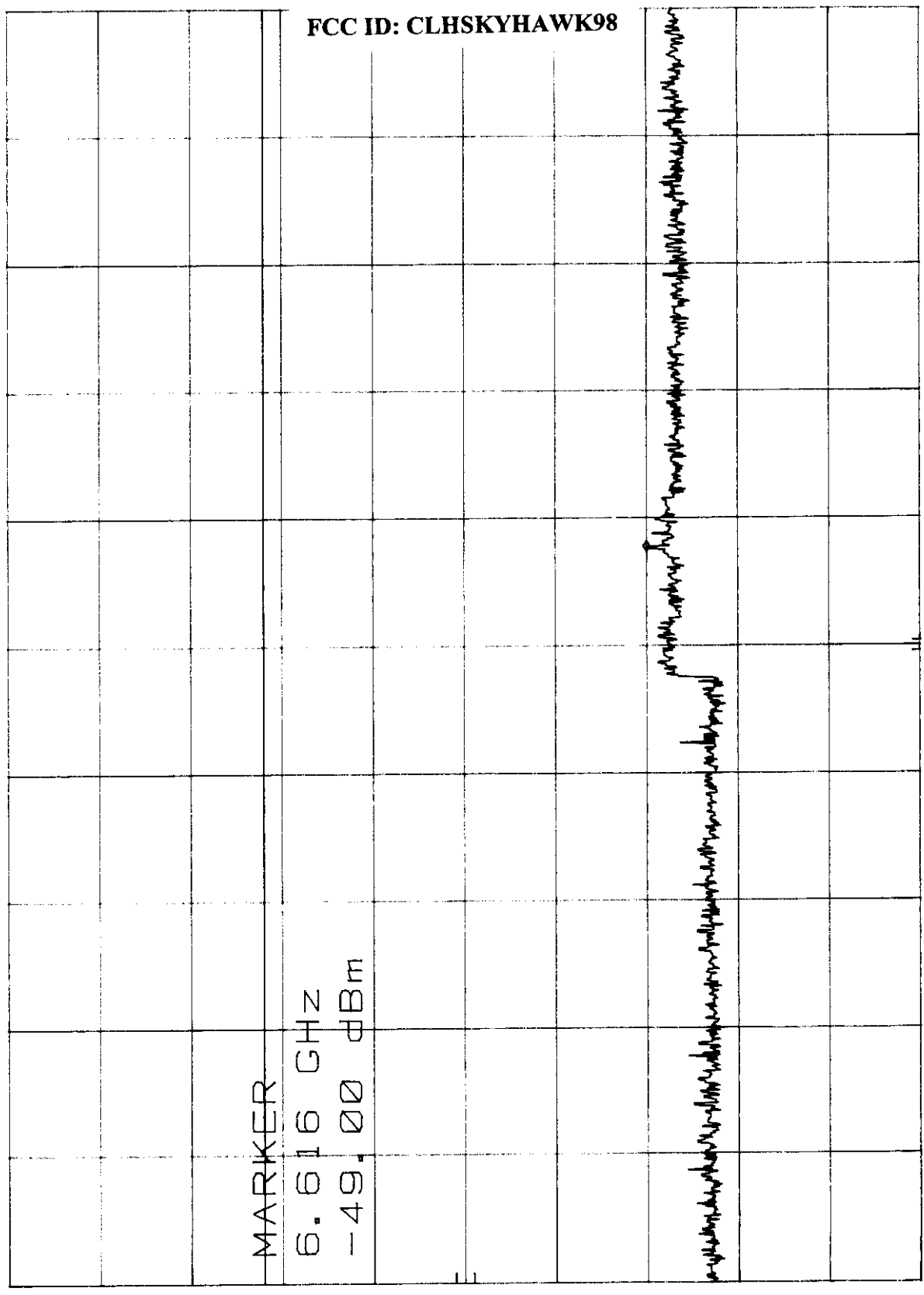
hp

10 dB/

OFFSET
1.0
dB

DL
-7.0
dBm

CORR'D



START 2.00 GHz
RES BW 100 kHz
STOP 10.00 GHz
SWP 2.40 sec
VBW 300 kHz

RF. ANT. COND. TEST - BASE CH. 10
REF 21.0 dBm ATTN 30 dB

MKR 917 MHz
12.50 dBm

HP

10 dB/

OFFSET

1.0

dB

DL

-7.5

dBm

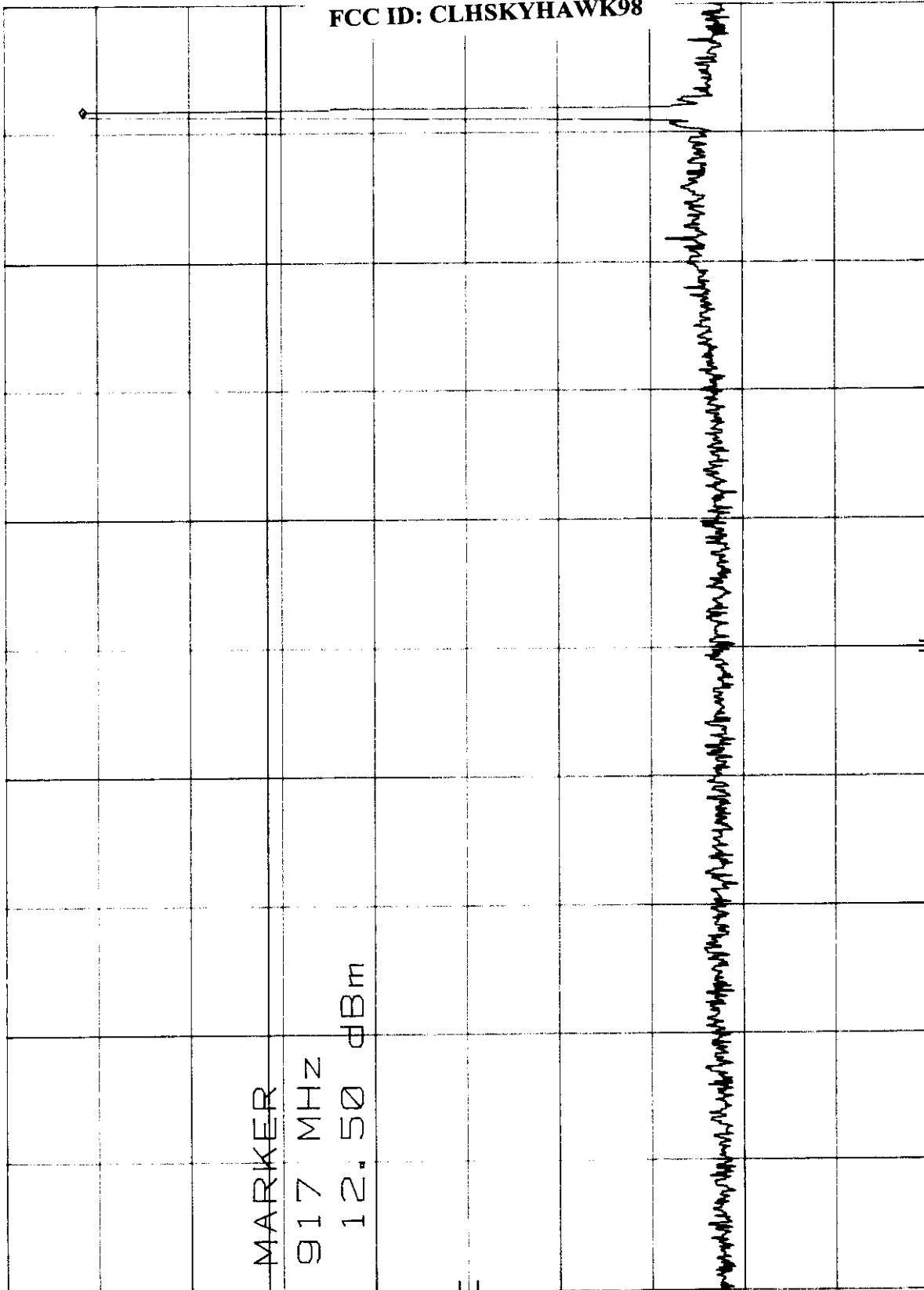
MARKER

917 MHz

12.50 dBm

CORR'D

FCC ID: CLHSKYHAWK98



START 2 MHz

RES BW 100 kHz

VBW 300 kHz

STOP 1.00 GHz

SWP 299 msec

RF. ANT. COND. TEST - BASE CH. 10 MKR 1.831 GHz
REF 21.0 dBm ATTN 30 dB -40.90 dBm

hp

10 dB/

OFFSET

1.0

dB

DL

-7.5

dBm

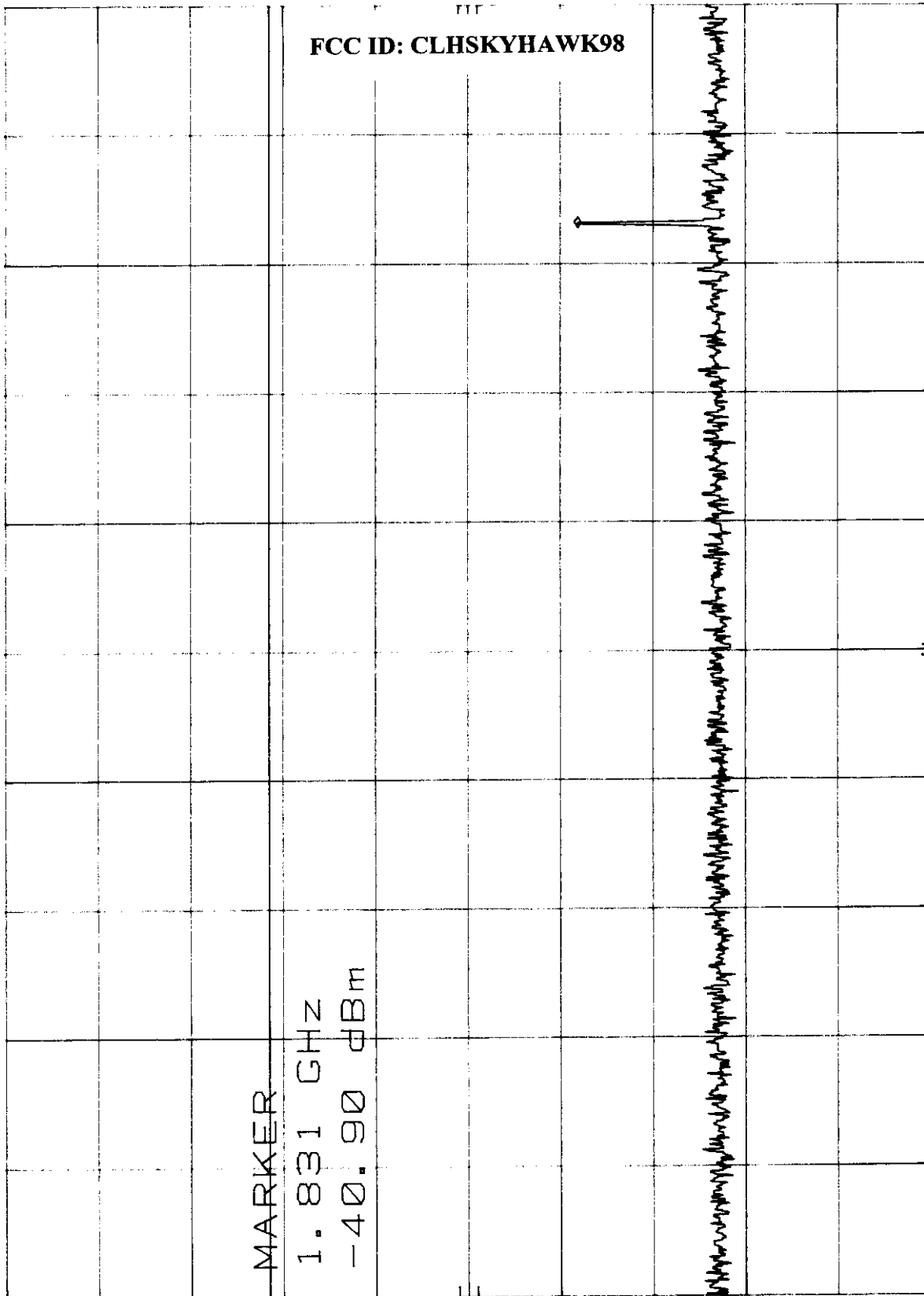
MARKER

1.831 GHz

-40.90 dBm

FCC ID: CLHSKYHAWK98

CORR'D



START 1.00 GHz

RES BW 100 kHz

VBW 300 kHz

STOP 2.00 GHz

SWP 300 msec

RF. ANT. COND. TEST - BASE CH. 10 MKR 6.592 GHz
REF 21.0 dBm ATTEN 30 dB -49.00 dBm

hp

10 dB/

OFFSET

1.0

dB

DL

-7.5

dBm

STOP

10.00 GHz

CORR'D

FCC ID: CLHSKYHAWK98

START 2.00 GHz

RES BW 100 kHz

VBW 300 kHz

STOP 10.00 GHz

SWP 2.40 sec

RF. ANT. COND. TEST - BASE CH. 20
REF 21.0 dBm ATTEN 30 dB

hp MKR 929 MHz
12.10 dBm

10 dB/

OFFSET
1.0
dB

DL
-7.9
dBm

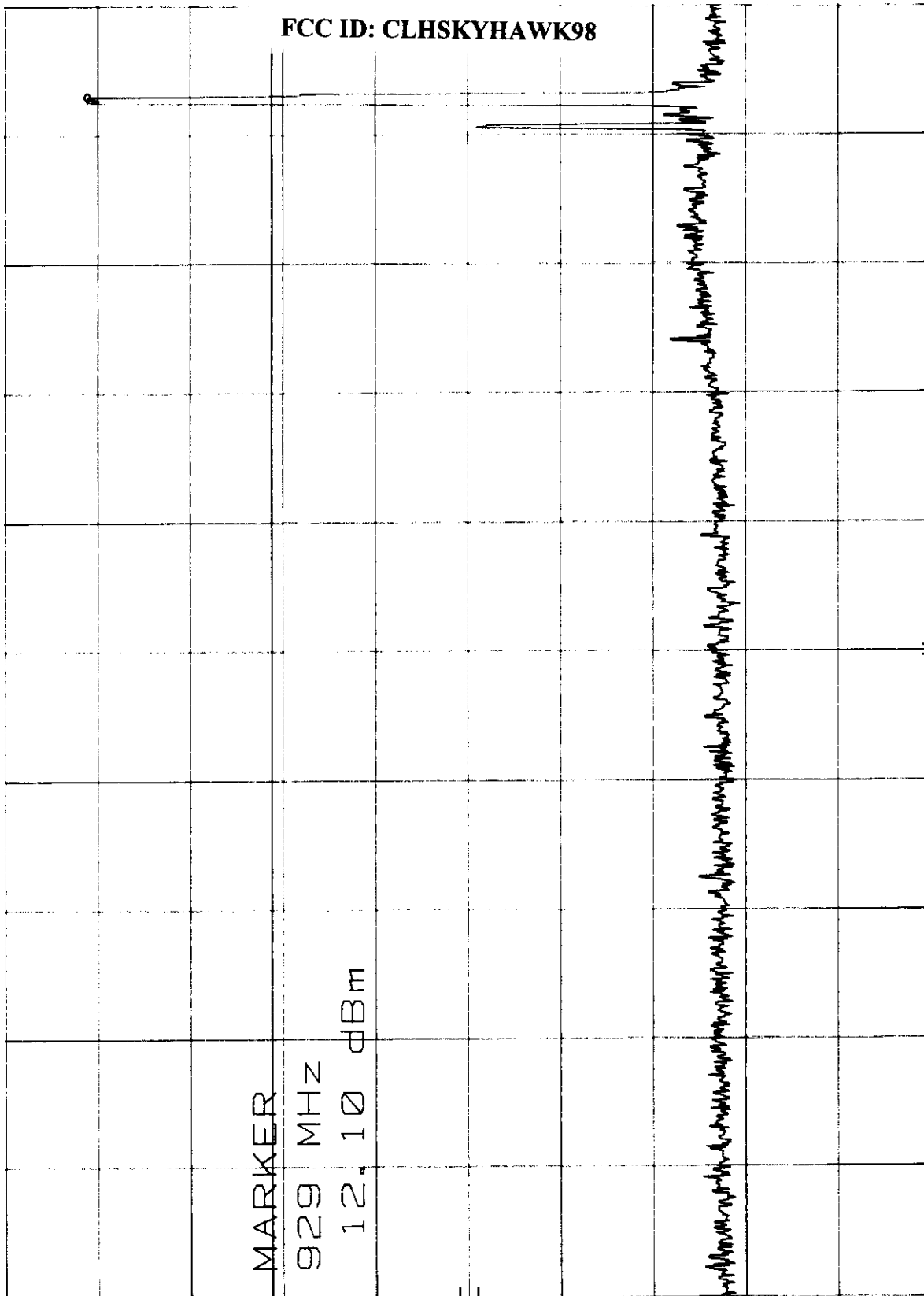
MARKER

929 MHz

12.10 dBm

FCC ID: CLHSKYHAWK98

CORR'D



START 2 MHz

RES BW 100 KHz

STOP 1.00 GHz
SWP 299 msec

VBW 300 KHz

RF. ANT. COND. TEST - BASE CH. 20 MKR 1.855 GHz
REF 21.0 dBm ATTN 30 dB -39.50 dBm

HP

10 dB/

OFFSET

1.0
dB

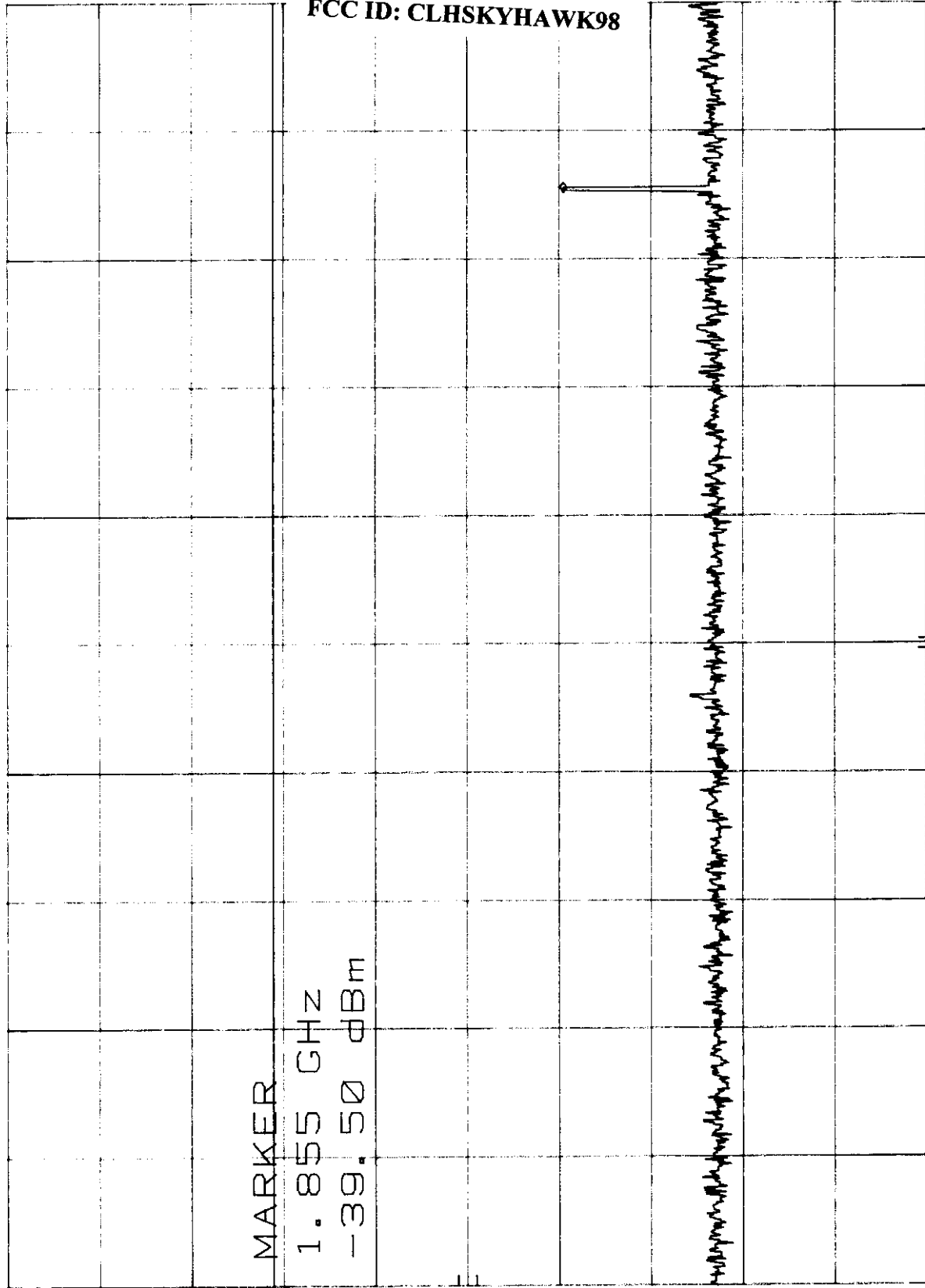
DL
-7.9
dBm

MARKER

1.855 GHz
-39.50 dBm

CORR'D

FCC ID: CLHSKYHAWK98



START 1.00 GHz RES BW 100 kHz STOP 2.00 GHz
VBW 300 kHz SWP 300 msec

RF. ANT. COND. TEST - BASE CH. 20
REF 21.0 dBm ATTN 30 dB
MKR 6.632 GHz
-49.90 dBm

hp

10 dB/

OFFSET

1.0

dB

DL

-7.9

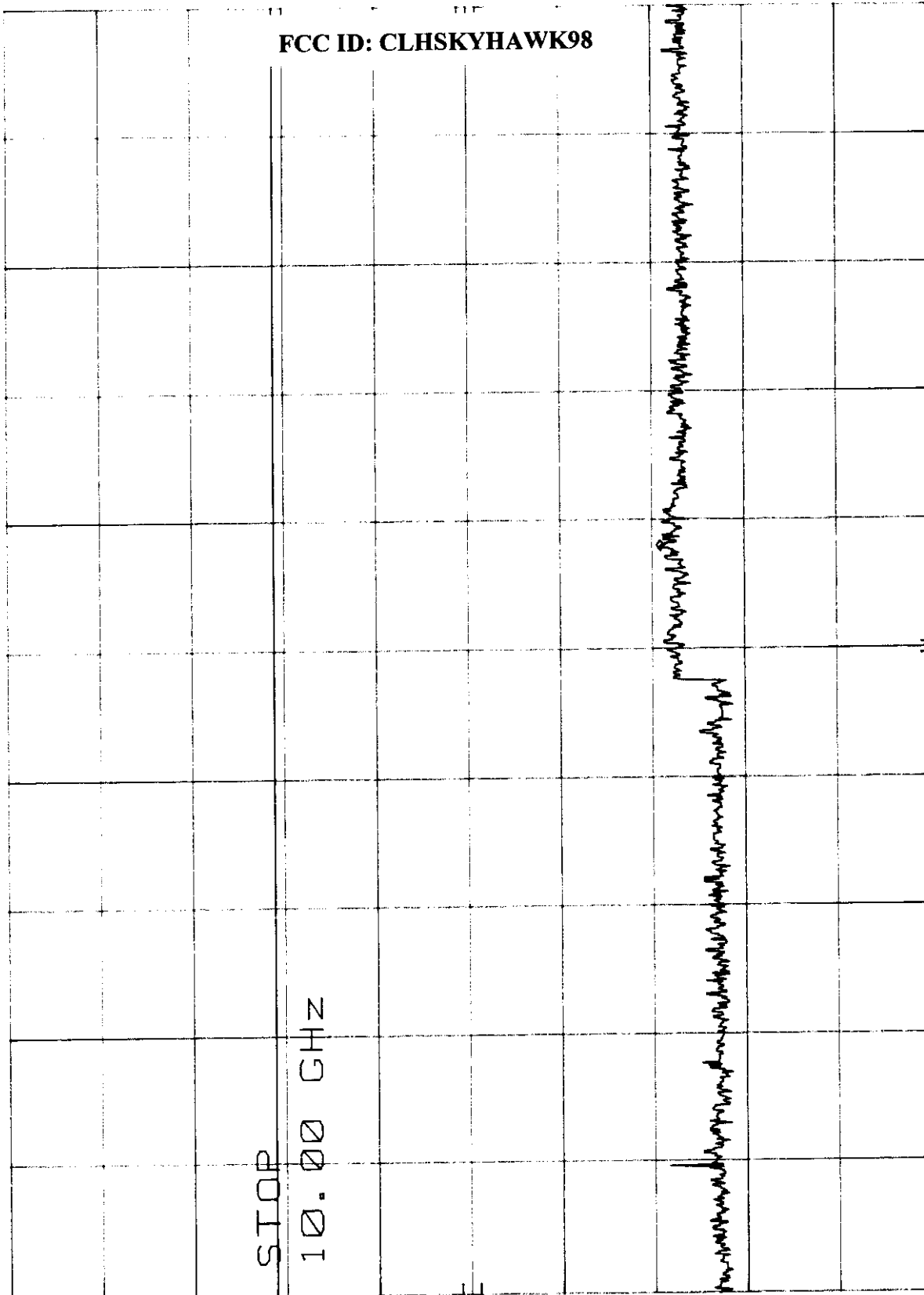
dBm

STOP

10.00 GHz

CORR'D

FCC ID: CLHSKYHAWK98



START 2.00 GHz RES BW 100 kHz VBW 300 kHz STOP 10.00 GHz
SWP 2.40 sec

RF. ANT. COND. TEST - CH. 1 2MHz-1GHz
 REF 21.0 dBm ATTN 30 dB
 MKR 906 MHz
 12.20 dBm

hpo

10 dB/

OFFSET

1.0

dB

DL

-7.8

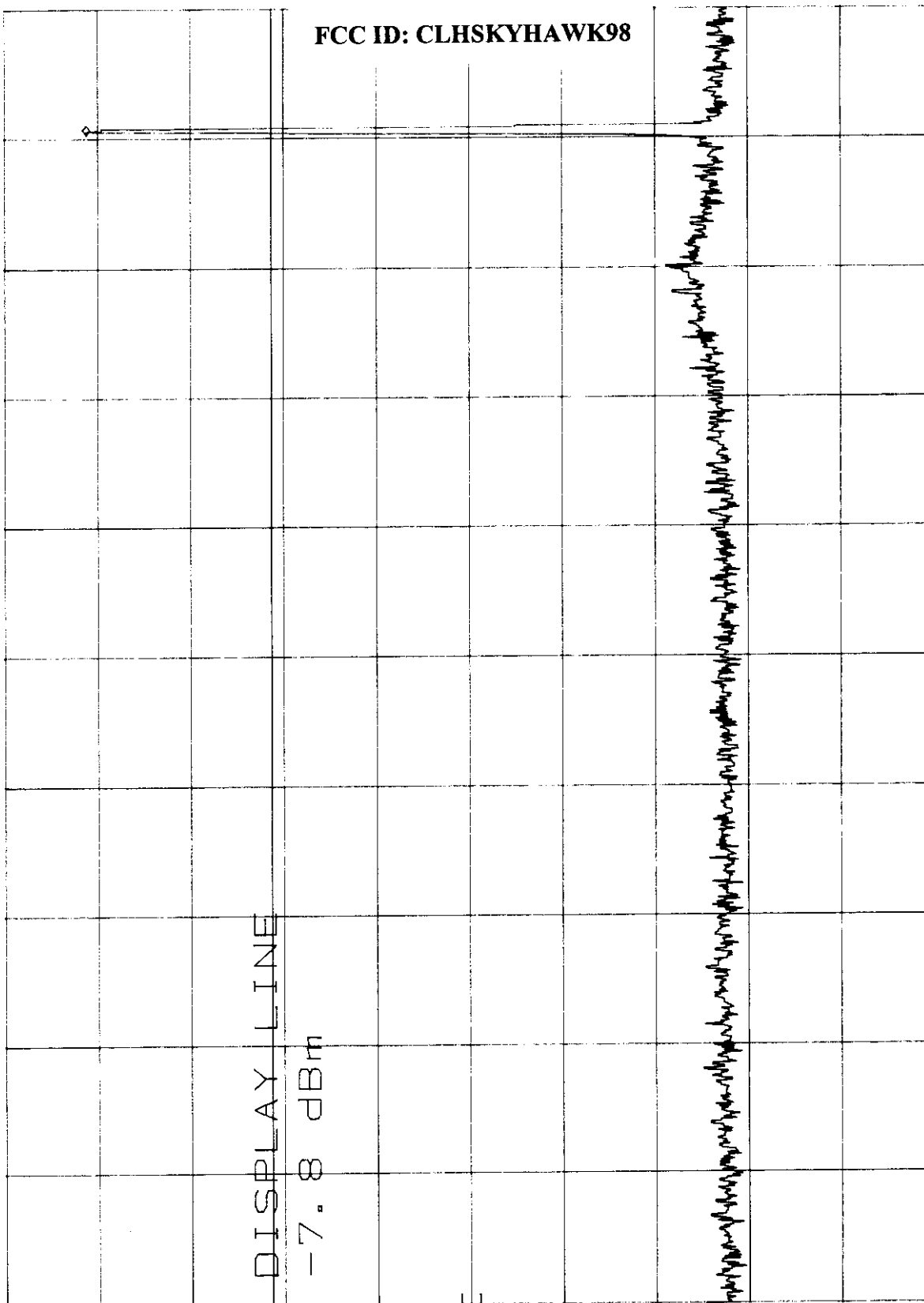
dBm

DISPLAY LINE

-7.8 dBm

CORR'D

FCC ID: CLHSKYHAWK98



START 2 MHz

RES BW 100 KHz

VBW 300 KHz

STOP 1.00 GHz

SWP 299 msec

RF ANT. COND. TEST - HANDSET CH. 1 1GHz-2GHz MKR 1.810 GHz
REF 21.0 dBm ATTN 30 dB -50.30 dBm

hp

10 dB/

OFFSET
1.0
dB

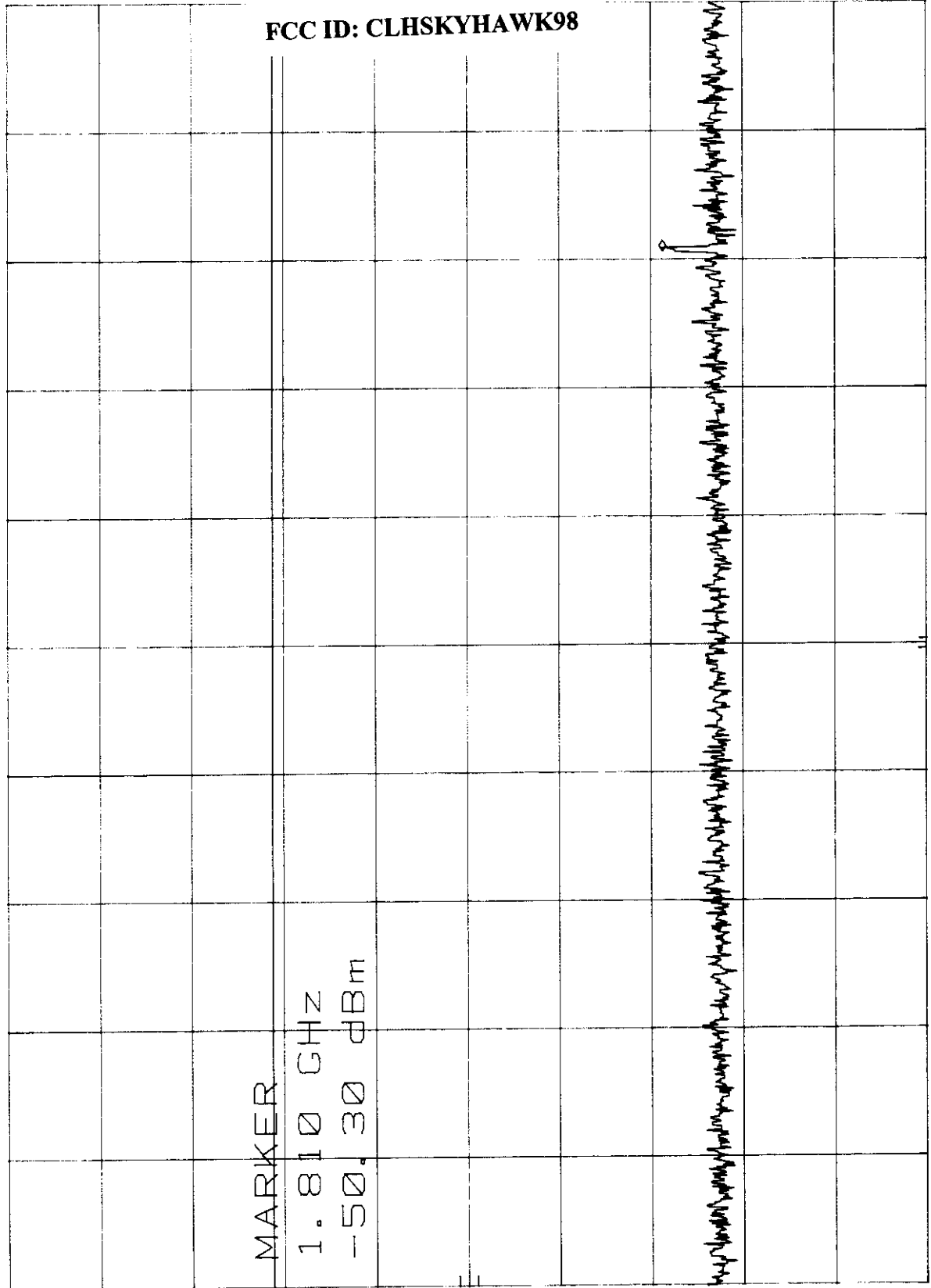
DL
-7.8
dBm

MARKER

1.810 GHz
-50.30 dBm

CORR'D

FCC ID: CLHSKYHAWK98



START 1.00 GHz RES BW 100 kHz STOP 2.00 GHz SWP 300 msec
VBW 300 kHz

RF ANT. COND. TEST - HANDSET CH. 1 2GHz-10GHz MKR 5.992 GHz
REF 21.0 dBm ATTN 30 dB -49.50 dBm

h₁₀

10 dB/

OFFSET

1.0

dB

DL

-7.8

dBm

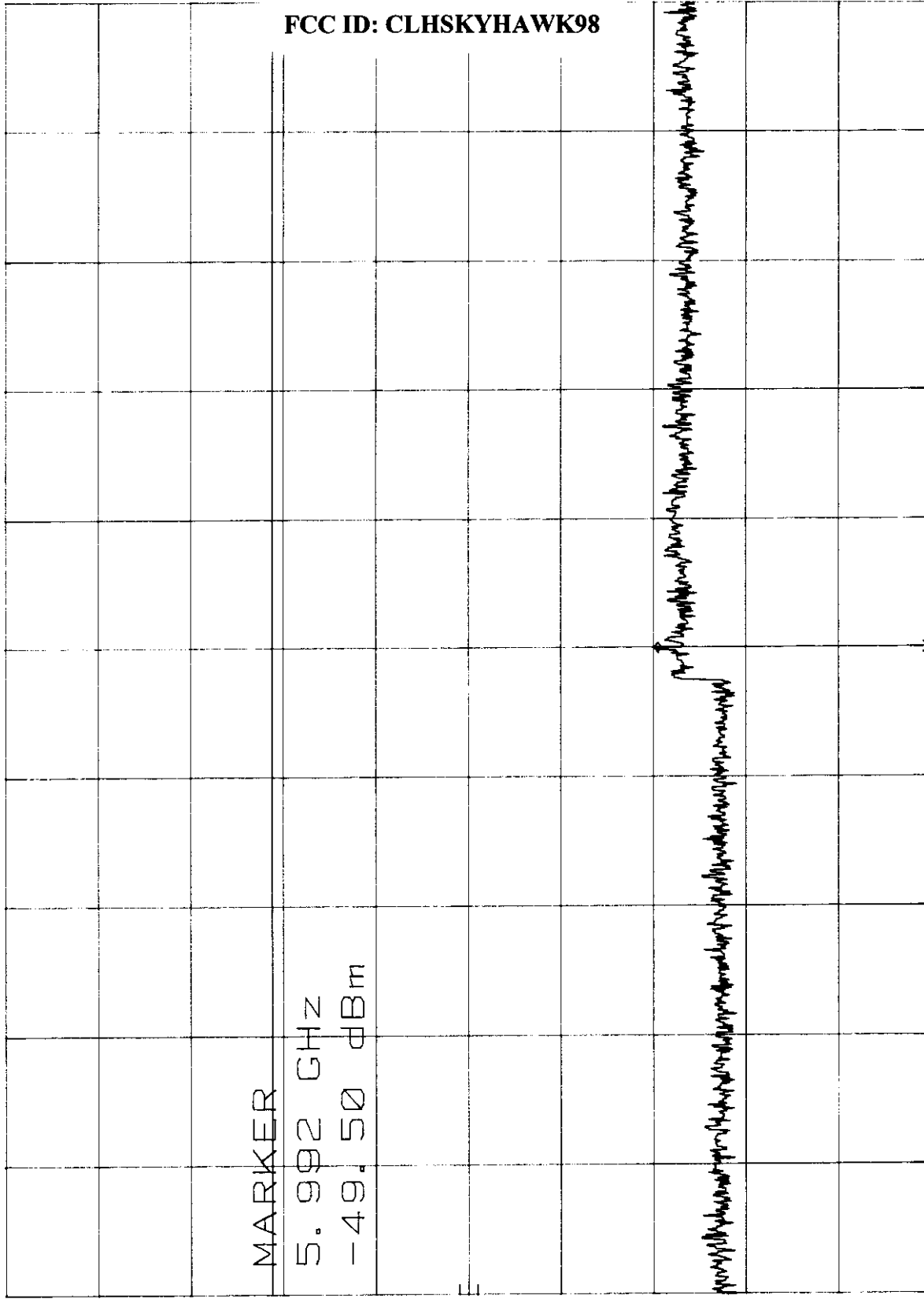
MARKER

5.992 GHz

-49.50 dBm

CORR'D

FCC ID: CLHSKYHAWK98



START 2.00 GHz

RES BW 100 KHz

VBW 300 KHz

STOP 10.00 GHz

SWP 2.40 sec

RF ANT. COND. TEST-HANDSET CH. 20 2MHz-1GHz MKR 929 MHz
h₀ REF 21.0 dBm ATEN 30 dB 10.40 dBm

10 dB/

OFFSET

1.0

dB

DL

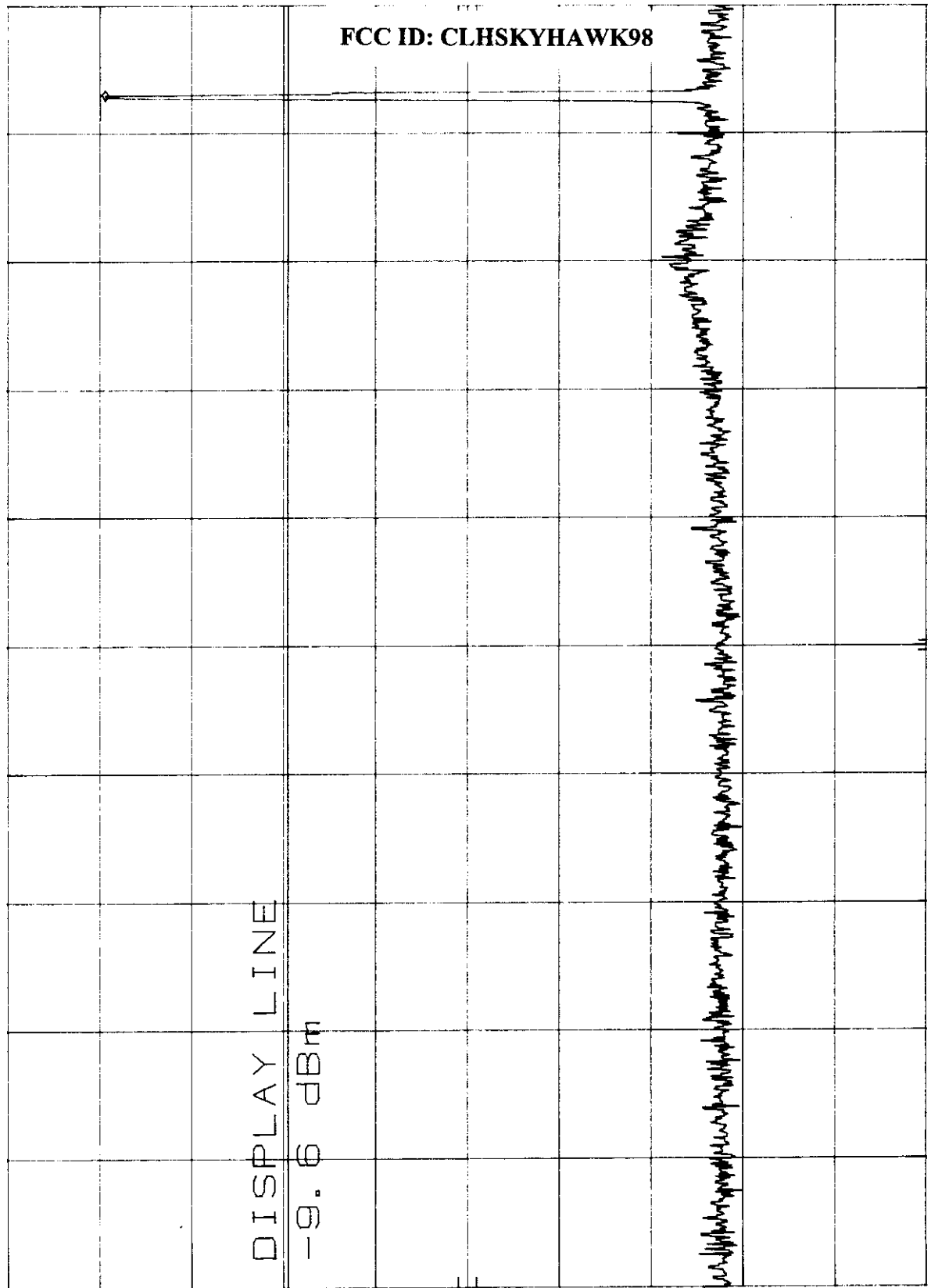
-9.6

dBm

DISPLAY LINE

-9.6 dBm

CORR'D



START 2 MHz

RES BW 100 KHz

VBW 300 KHz

STOP 1.00 GHz

SWP 300 msec

RF ANT. COND. TEST-HANDSET CH. 20 1GHz-2GHz MKR 1.855 GHz
REF 21.0 dBm ATTEN 30 dB -48.30 dBm

h7

10 dB/

OFFSET

1.0

dB

DL

-9.6

dBm

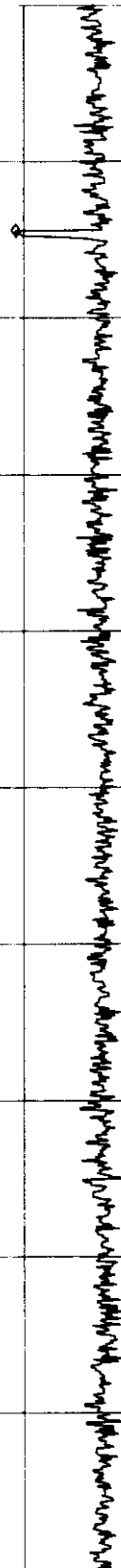
MARKER

1.855 GHz

-48.30 dBm

FCC ID: CLHSKYHAWK98

CORR'D



START 1.00 GHz

RES BW 100 KHz

VBW 300 KHz

STOP 2.00 GHz

SWP 300 msec

RF ANT. COND. TEST-HANDSET CH. 20 2GHz-10GHz MKR 9.552 GHz
 REF 21.0 dBm ATTEN 30 dB -50.00 dBm

hp

10 dB/

OFFSET

1.0

dB

DL

-9.6

dBm

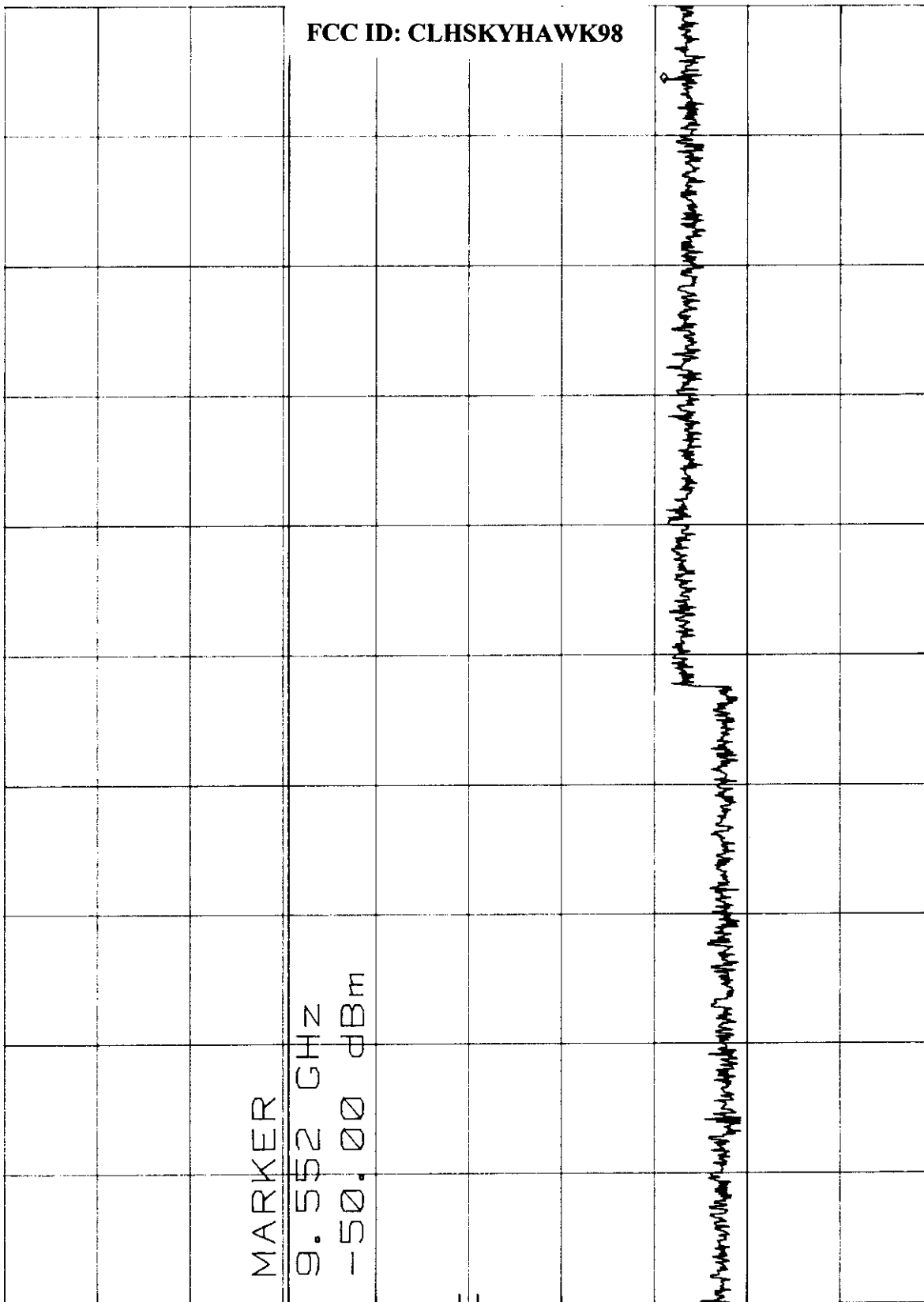
MARKER

9.552 GHz

-50.00 dBm

FCC ID: CLHSKYHAWK98

CORR'D



START 2.00 GHz

RES BW 100 kHz

VBW 300 kHz

STOP 10.00 GHz

SWP 2.40 sec

RF ANT. COND. TEST - HANDSET CH. 10 2MHz-1GHz MKR 917 MHz
REF 21.0 dBm ATTN 30 dB 11.20 dBm

hp

10 dB/

OFFSET

1.0

dB

DL

-8.8

dBm

DISPLAY LINE

-8.8 dBm

FCC ID: CLHSKYHAWK98

CORR'D

START 2 MHz

RES BW 100 kHz

VBW 300 kHz

STOP 1.00 GHz

SWP 300 msec

RF ANT. COND. TEST - HANDSET CH. 10 1GHz-2GHz MKR 1.831 GHz
h₀ REF 21.0 dBm ATTN 30 dB -44.70 dBm

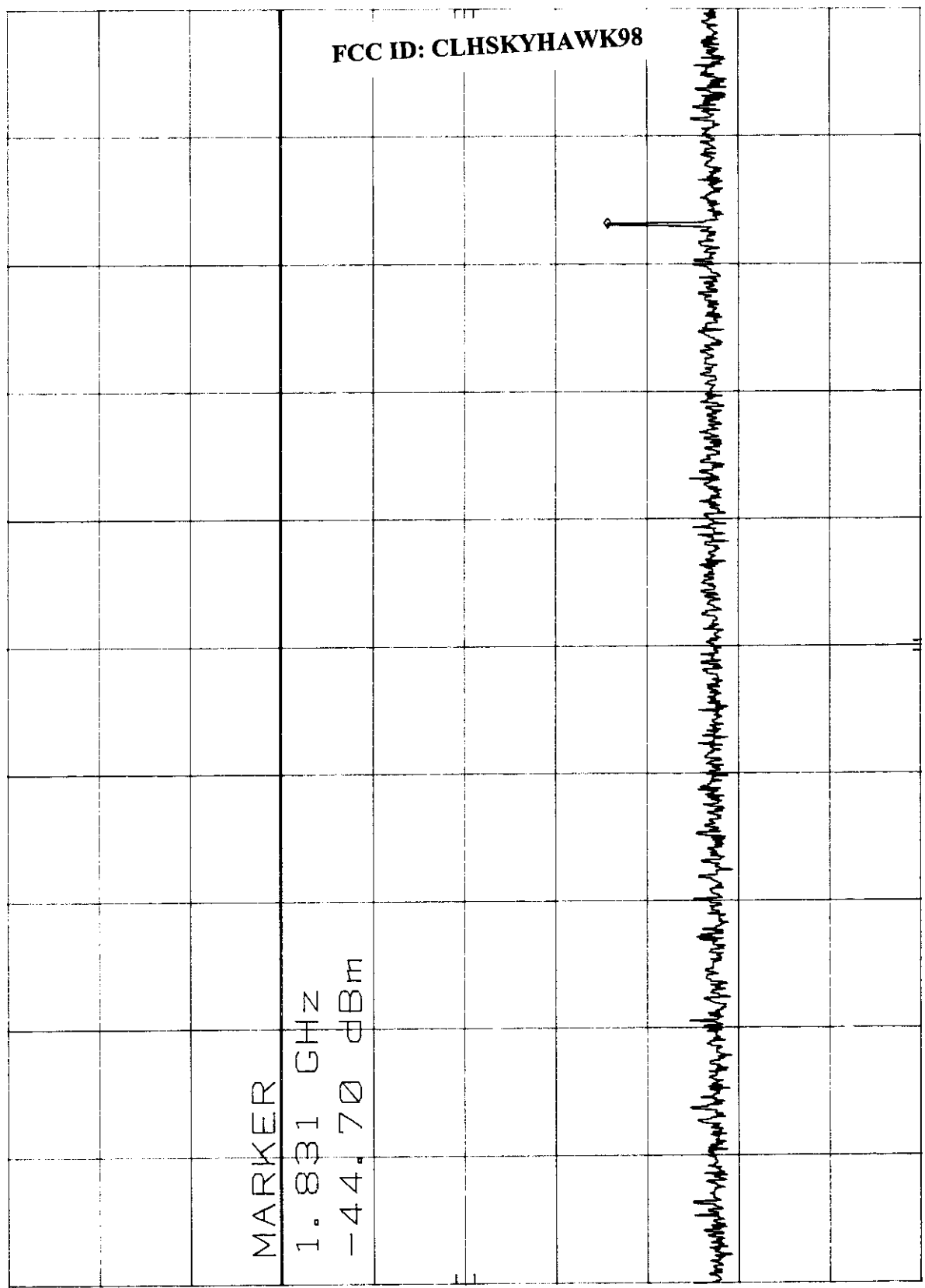
10 dB/

OFFSET

1.0
dB

DL
-8.8
dBm

CORR'D



START 1.00 GHz RES BW 100 kHz VBW 300 kHz STOP 2.00 GHz SWP 300 msec

RF ANT. COND. TEST-HANDSET CH. 10 2GHz-10GHz MKR 6.712 GHz
 REF 21.0 dBm ATTEN 30 dB
 h/p -49.70 dBm

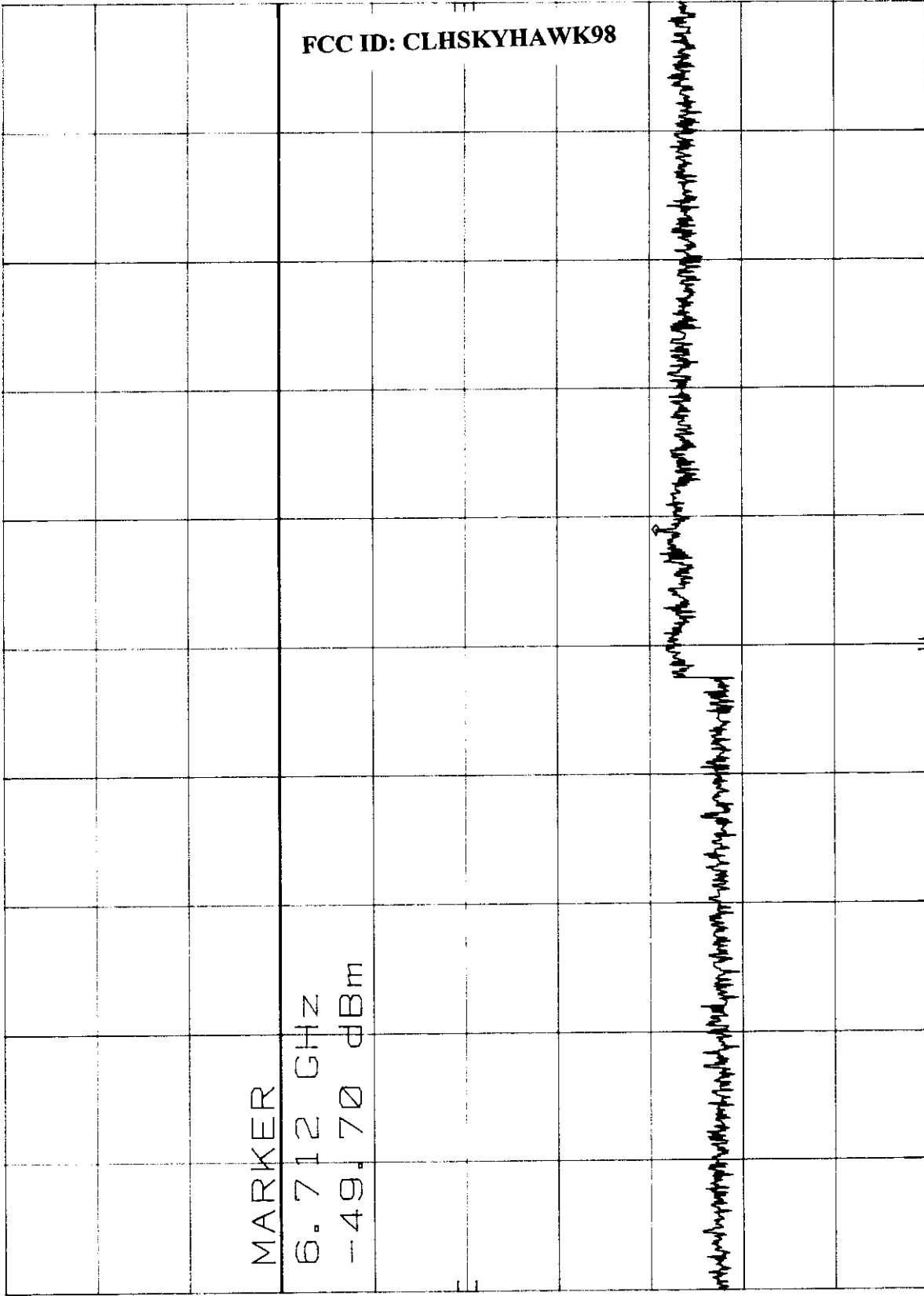
10 dB/

OFFSET

1.0
dB

DL
-8.8
dBm

CORR'D



START 2.00 GHz
RES BW 100 kHz

VBW 300 kHz

STOP 10.00 GHz
SWP 2.40 sec

**14.6****RF Band Edges**

The RF band edges were taken at the edges of the ISM spectrum (902 MHz when the EUT was on channel 1 and 928 MHz when the EUT was on channel 20) for both the base and handset using the spectrum analyzer. The RF band edges were measured using a direct connection from the RF out on the RF board for both the base and handset into the input of the analyzer. The resolution bandwidth was 100 kHz, and the video bandwidth 300 kHz. The marker was placed at 902 MHz (for channel 1) and 928 MHz (for channel 20). This frequency was then checked to see that it was 20 dB below the band that contained the highest level of desired power.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.209 (c). The RF power at the band edges is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power.

SECTION 14.6.1***RF BAND EDGES FOR THE BASE AND HANDSET
DATA SHEETS***

BAND EDGE OF HANDSET CH. 1
MKR 902.00 MHz
-17.00 dBm
h_p REF 21.0 dBm ATTN 30 dB

10 dB/

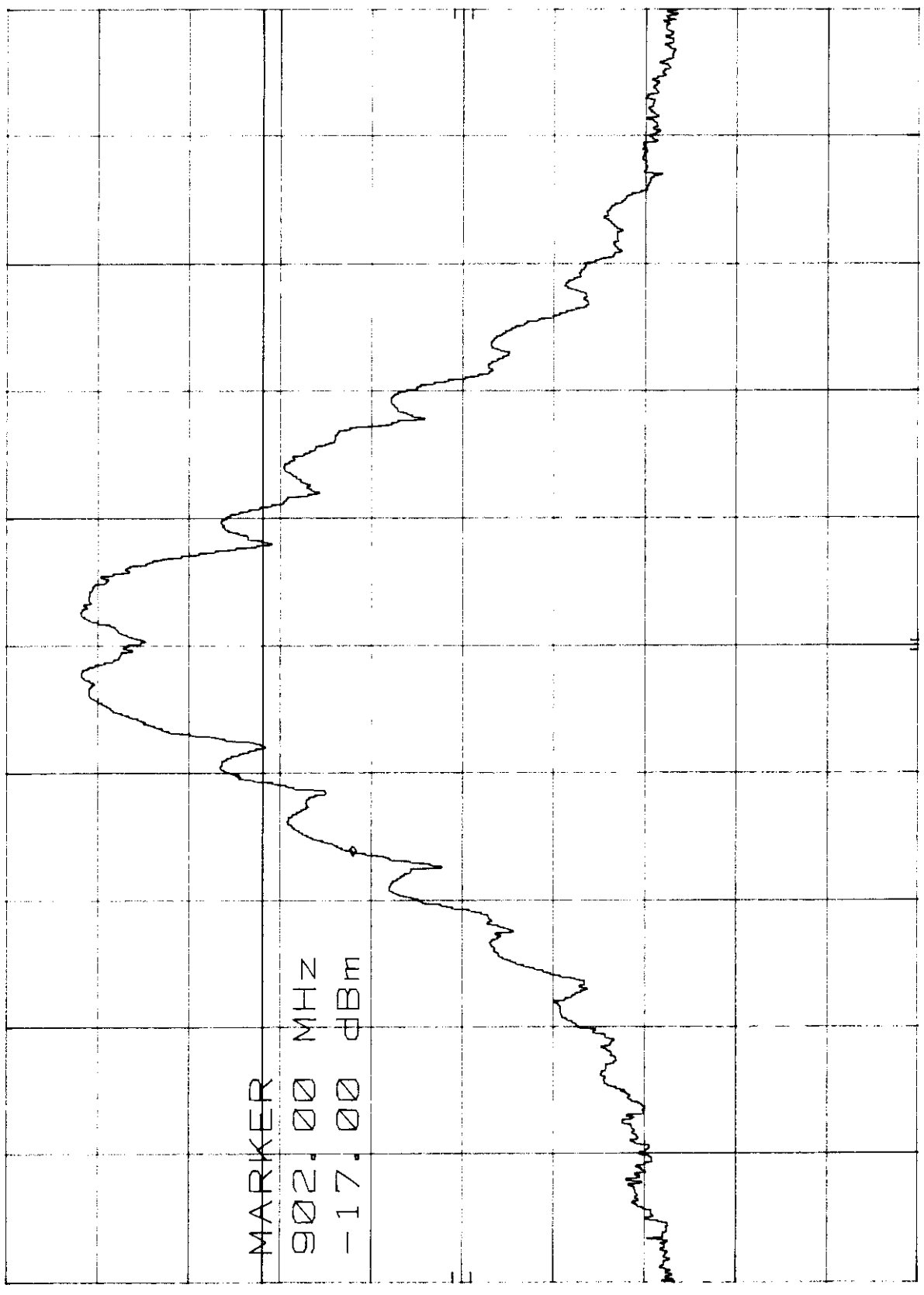
OFFSET
1.0
dB

DL
-7.1
dBm

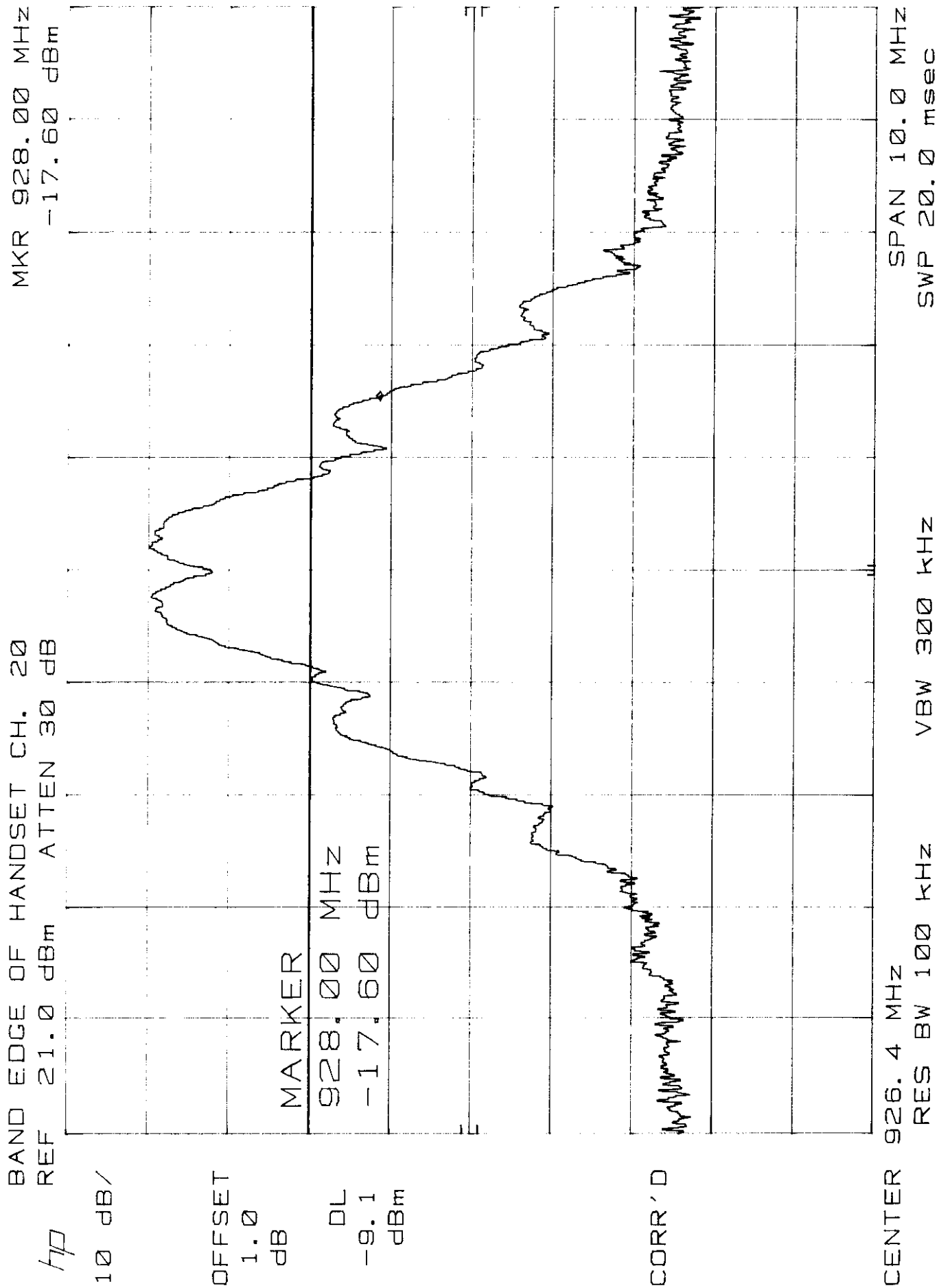
MARKER

902.00 MHz
-17.00 dBm

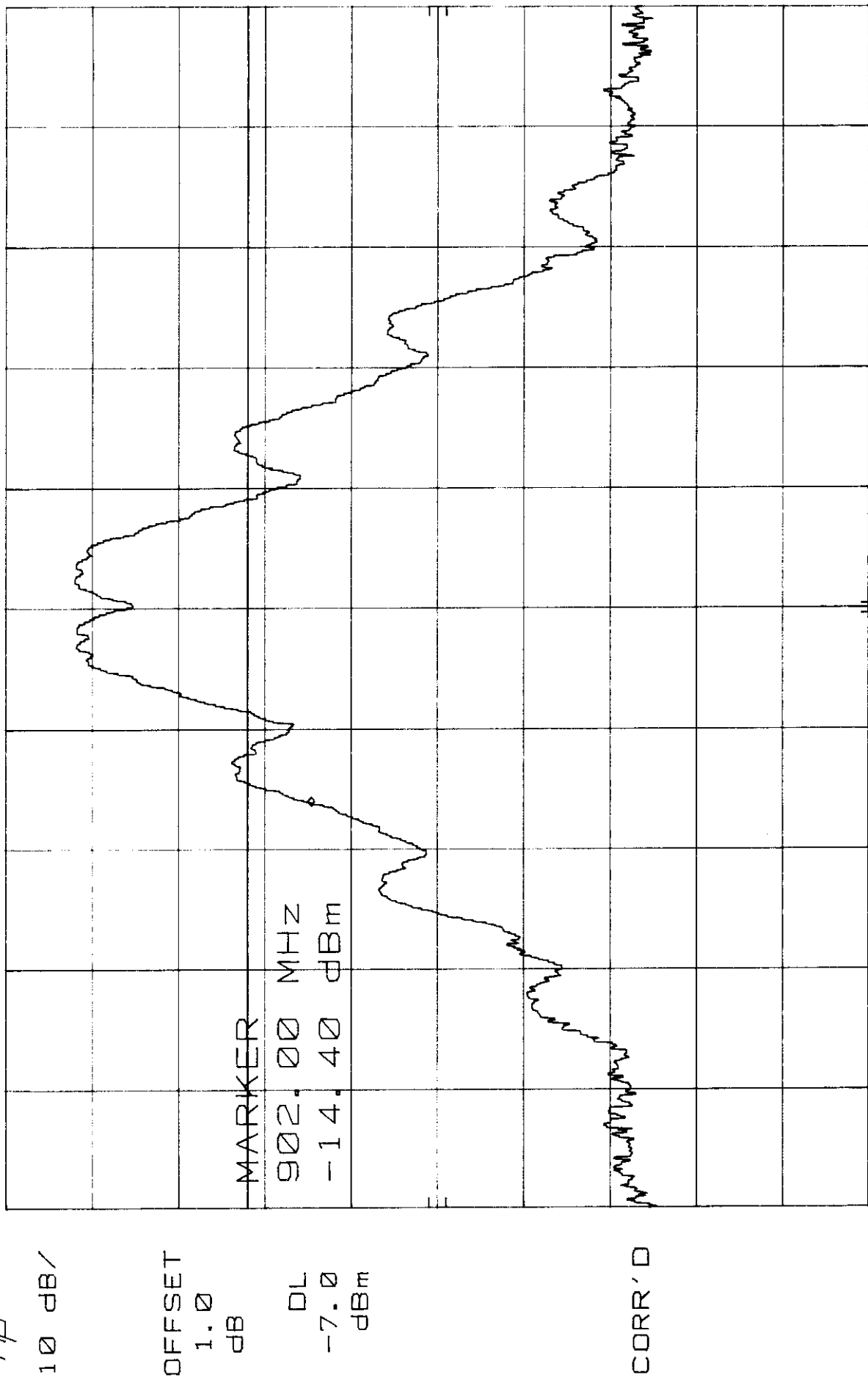
CORR'D



CENTER 903.6 MHz
RES BW 100 kHz
SPAN 10.0 MHz
SWP 20.0 msec
VBW 300 kHz



BAND EDGE OF BASE CH. 1
MKR 902.00 MHz
-14.40 dBm
h₀ REF 21.0 dBm ATTN 30 dB



CENTER 903.6 MHz
RES BW 100 KHz
SPAN 10.0 MHz
SWP 20.0 msec
VBW 300 KHz

MR 928.00 MHz
-12.90 dBm

BAND EDGE OF BASE CH. 20
REF 21.0 dBm ATTN 30 dB

h₀

10 dB/

OFFSET

1.0

dB

DL

-7.7

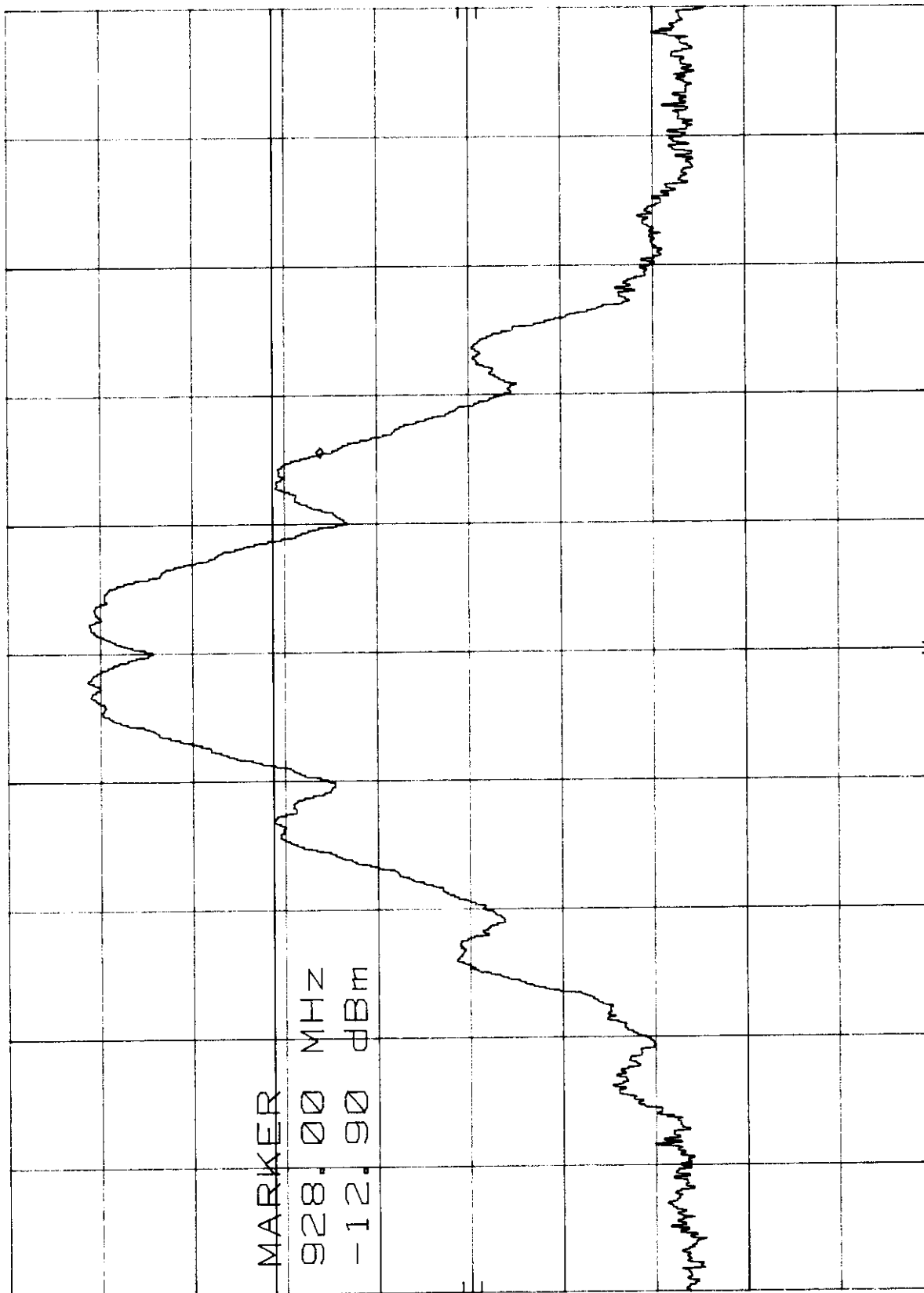
dBm

MARKER

928.00 MHz

-12.90 dBm

CORR'D



CENTER 926.4 MHz
RES BW 100 kHz
VBW 300 kHz
SPAN 10.0 MHz
SWP 20.0 msec

**14.7****Processing Gain Measurement Procedure****Processing Gain - base station output to handset input**

The base was connected by its test connector (an internal serial port) to the communications analyzer (computer) via com port 1. 60 dB of attenuation was placed on the output of the base. The output of the base was combined with the output of the signal generator through a combiner. The handset was connected by its test connector (an internal serial port) to the communications analyzer (computer) via com port 2. The signal generator was stepped in 50 kHz increments across the passband ($\pm$ of the fundamental transmit frequency). The Bit Error Rate used was 0.1%. When this error rate was achieved (displayed on the computer), the reading of the signal generator was taken. This reading was then subtracted from the signal level of the base station (while adding in the combiner loss and signal generator calibration factor) to obtain the J/S ratio. The J/S ratio was then combined with the system loss (2 dB) and signal to noise ratio (8 dB) of the unit to obtain the processing gain.

Processing Gain - handset output to base station input

The handset was connected by its test connector (an internal serial port) to the communications analyzer (computer) via com port 1. 60 dB of attenuation was placed on the output of the handset. The output of the handset was combined with the output of the signal generator through a combiner. The base was connected by its test connector (an internal serial port) to the communications analyzer (computer) via com port 2. The signal generator was stepped in 50 kHz increments across the passband of the fundamental transmit frequency. The Bit Error Rate used was 0.1%. When this error rate was achieved (displayed on the computer), the reading of the signal generator was taken. This reading was then subtracted from the signal level of the base station (while adding in the combiner loss and signal generator calibration factor) to obtain the J/S ratio. The J/S ratio was then combined with the system loss (2 dB) and signal to noise ratio (8 dB) of the unit to obtain the processing gain.



SECTION 14.7.1

PROCESSING GAIN FOR THE BASE AND HANDSET DATA SHEETS

PROCESSING GAIN WORKSHEET

PROCESSING GAIN TEST

CHANNEL 10 (914.40 MHz) - Base output to Handset input

LOSSES

Jammer Freq. (MHz)	Transmitter Output (dBm)	Signal Level (dBm)	CW Noise (dBm)	Mj J/S ratio (dB)	Processing Gain (dBm)
914.40	8.40	-55.60	-45.40	6.90	16.90
914.45	8.40	-55.60	-45.80	6.50	16.50
914.50	8.40	-55.60	-44.40	7.90	17.90
914.55	8.40	-55.60	-44.40	7.90	17.90
914.60	8.40	-55.60	-44.40	7.90	17.90
914.65	8.40	-55.60	-44.60	7.70	17.70
914.70	8.40	-55.60	-45.00	7.30	17.30
914.75	8.40	-55.60	-45.00	7.30	17.30
914.80	8.40	-55.60	-45.80	6.50	16.50
914.85	8.40	-55.60	-38.00	14.30	24.30
914.90	8.40	-55.60	-45.80	6.50	16.50
914.95	8.40	-55.60	-36.60	15.70	25.70
915.00	8.40	-55.60	-41.80	10.50	20.50
915.05	8.40	-55.60	-41.40	10.90	20.90
915.10	8.40	-55.60	-39.00	13.30	23.30
915.15	8.40	-55.60	-39.00	13.30	23.30
915.20	8.40	-55.60	-36.20	16.10	26.10
915.25	8.40	-55.60	-33.40	18.90	28.90
915.30	8.40	-55.60	-32.00	20.30	30.30
915.35	8.40	-55.60	-32.40	19.90	29.90

Attenuation	60
Combiner Loss	3
Cable Loss	1
System Loss	2
S/N ratio	8
Sig. Gen. Cal Factor	0.3

Signal Level = Tx Output - Attenuation -
Combiner Loss - Cable Loss

Mj J/S ratio =
CW Noise - Sig. Level - Combiner Loss
- Sig. Gen. Factor

Processing Gain =
Mj J/S ratio + System Loss + S/N Ratio

CHANNEL 10 (914.40 MHz) - Base output to Handset input

Jammer Freq. (MHz)	Transmitter Output (dBm)	Signal Level (dBm)	CW Noise (dBm)	Mj J/S ratio (dB)	Processing Gain (dBm)
913.65	8.40	-55.60	-37.80	14.50	24.50
913.70	8.40	-55.60	-37.80	14.50	24.50
913.75	8.40	-55.60	-38.40	13.90	23.90
913.80	8.40	-55.60	-38.20	14.10	24.10
913.85	8.40	-55.60	-43.60	8.70	18.70
913.90	8.40	-55.60	-37.80	14.50	24.50
913.95	8.40	-55.60	-43.80	8.50	18.50
914.00	8.40	-55.60	-41.80	10.50	20.50
914.05	8.40	-55.60	-48.00	4.30	14.30
914.10	8.40	-55.60	-47.60	4.70	14.70
914.15	8.40	-55.60	-46.20	6.10	16.10
914.20	8.40	-55.60	-46.00	6.30	16.30
914.25	8.40	-55.60	-43.60	8.70	18.70
914.30	8.40	-55.60	-46.80	5.50	15.50
914.35	8.40	-55.60	-43.60	8.70	18.70

PROCESSING GAIN WORKSHEET

PROCESSING GAIN TEST

CHANNEL 10 (914.40 MHz) - Handset output to Base input

LOSSES

Jammer Freq. (MHz)	Transmitter Output (dBm)	Signal Level (dBm)	CW Noise (dBm)	Mj J/S ratio (dB)	Processing Gain (dBm)	Attenuation	
914.40	9.00	-55.00	-45.50	6.20	16.20	Combiner Loss	60
914.45	9.00	-55.00	-45.30	6.40	16.40	Cable Loss	3
914.50	9.00	-55.00	-45.50	6.20	16.20	System Loss	1
914.55	9.00	-55.00	-45.50	6.20	16.20	S/N ratio	2
914.60	9.00	-55.00	-45.50	6.20	16.20	Sig. Gen. Cal Factor	8
914.65	9.00	-55.00	-45.30	6.40	16.40		0.3
914.70	9.00	-55.00	-45.50	6.20	16.20	Signal Level = Tx Output - Attenuation - Combiner Loss - Cable Loss	
914.75	9.00	-55.00	-46.50	5.20	15.20	Mj J/S ratio =	
914.80	9.00	-55.00	-48.10	3.60	13.60	CW Noise - Sig. Level - Combiner Loss - Sig. Gen. Factor	
914.85	9.00	-55.00	-37.30	14.40	24.40	Processing Gain =	
914.90	9.00	-55.00	-47.00	4.70	14.70	Mj J/S ratio + System Loss + S/N Ratio	
914.95	9.00	-55.00	-37.00	14.70	24.70		
915.00	9.00	-55.00	-37.00	14.70	24.70		
915.05	9.00	-55.00	-38.70	13.00	23.00		
915.10	9.00	-55.00	-38.90	12.80	22.80		
915.15	9.00	-55.00	-39.10	12.60	22.60		
915.20	9.00	-55.00	-34.50	17.20	27.20		
915.25	9.00	-55.00	-34.50	17.20	27.20		
915.30	9.00	-55.00	-31.90	19.80	29.80		
915.35	9.00	-55.00	-31.90	19.80	29.80		

CHANNEL 10 (914.40 MHz) - Handset output to Base input

Jammer Freq. (MHz)	Transmitter Output (dBm)	Signal Level (dBm)	CW Noise (dBm)	Mj J/S ratio (dB)	Processing Gain (dBm)
913.65	9.00	-55.00	-37.60	14.10	24.10
913.70	9.00	-55.00	-38.20	13.50	23.50
913.75	9.00	-55.00	-39.00	12.70	22.70
913.80	9.00	-55.00	-39.00	12.70	22.70
913.85	9.00	-55.00	-44.20	7.50	17.50
913.90	9.00	-55.00	-36.80	14.90	24.90
913.95	9.00	-55.00	-43.40	8.30	18.30
914.00	9.00	-55.00	-41.40	10.30	20.30
914.05	9.00	-55.00	-47.40	4.30	14.30
914.10	9.00	-55.00	-47.40	4.30	14.30
914.15	9.00	-55.00	-45.80	5.90	15.90
914.20	9.00	-55.00	-47.20	4.50	14.50
914.25	9.00	-55.00	-47.20	4.50	14.50
914.30	9.00	-55.00	-46.80	4.90	14.90
914.35	9.00	-55.00	-46.00	5.70	15.70



15.

CONCLUSIONS

The 900 MHz Digital Spread Spectrum Cordless Phone Model: SKYHAWK98 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C section 15.247.



APPENDIX A

TEST SETUP DIAGRAMS AND PHOTOS

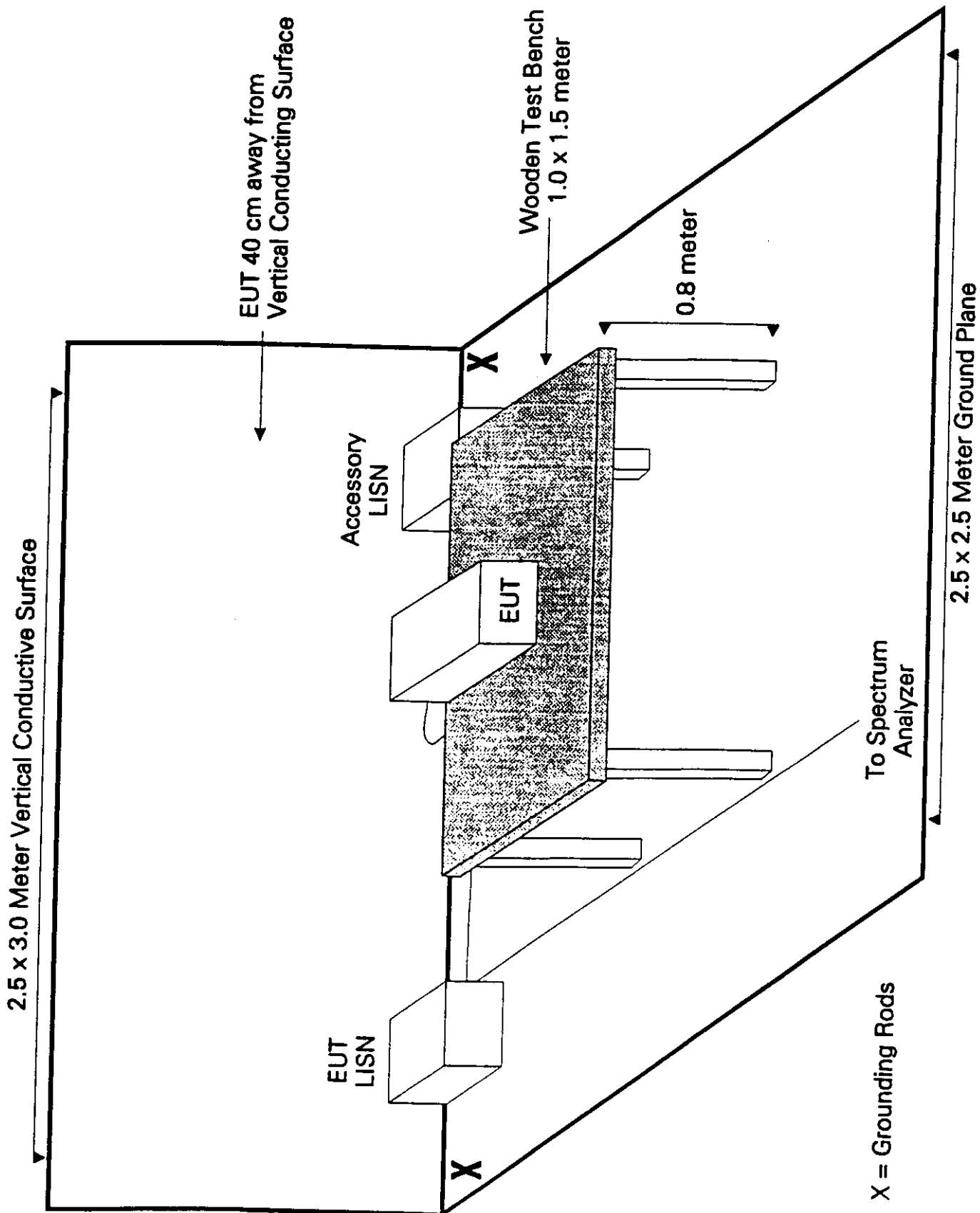


FIGURE 1 - CONDUCTED EMISSIONS TEST SETUP SITE D

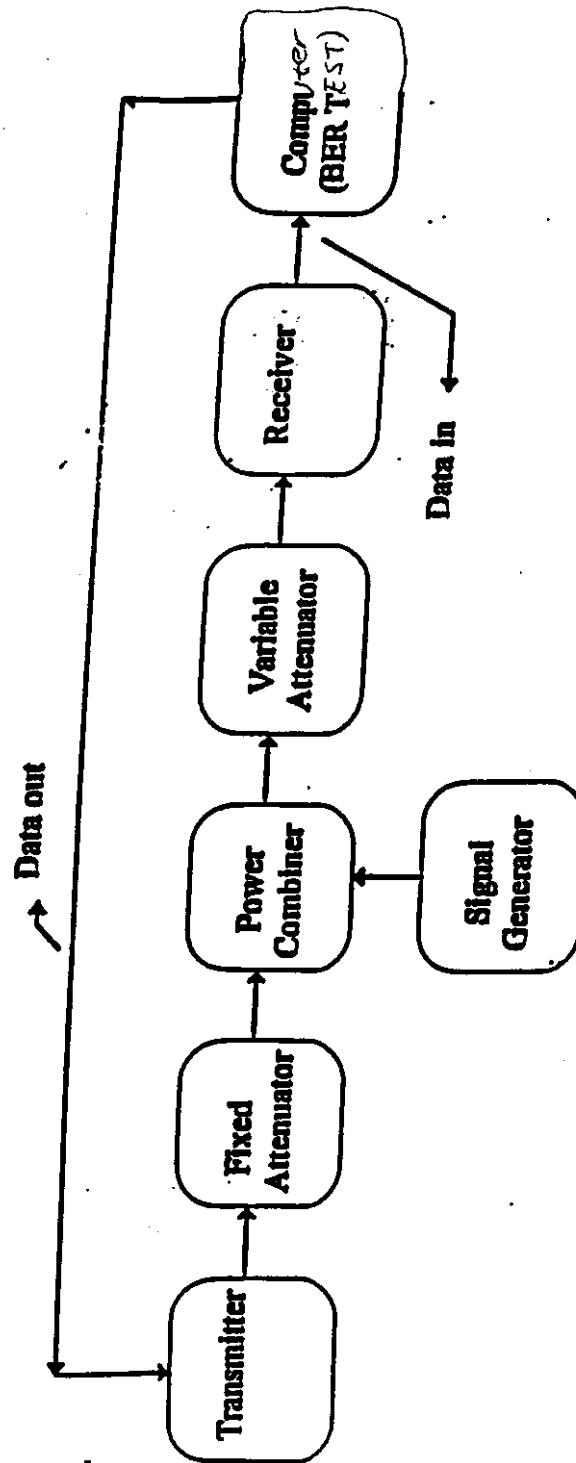
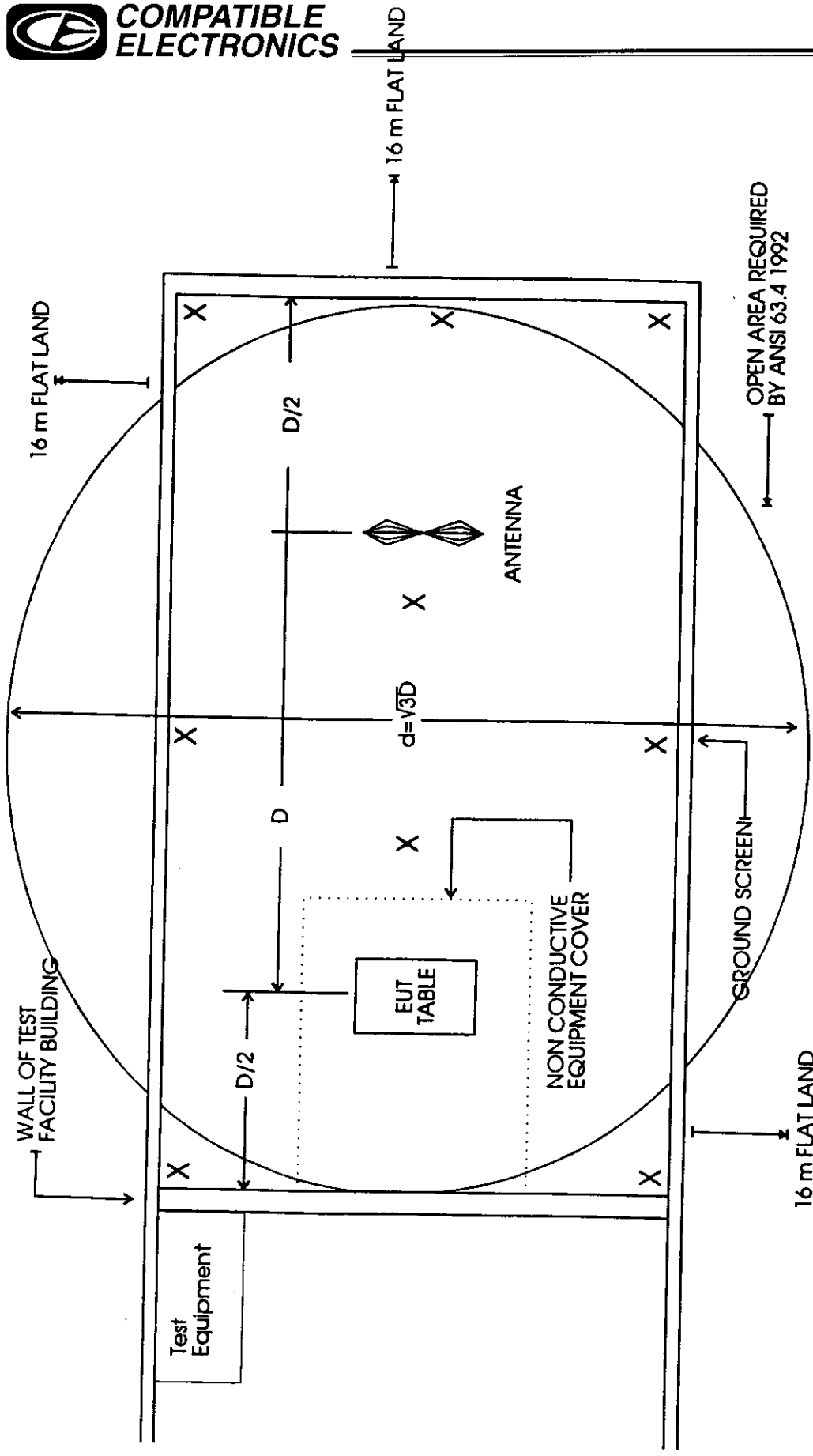


Figure 1a

The Fixed attenuator is about to 20 dB attenuation



X = COPPER RODS USED
FOR GROUNDING

D = DISTANCE

OPEN AREA REQUIRED
BY ANSI 63.4 1992

Figure 2: Plot Map and Layout of Test Site 'D'



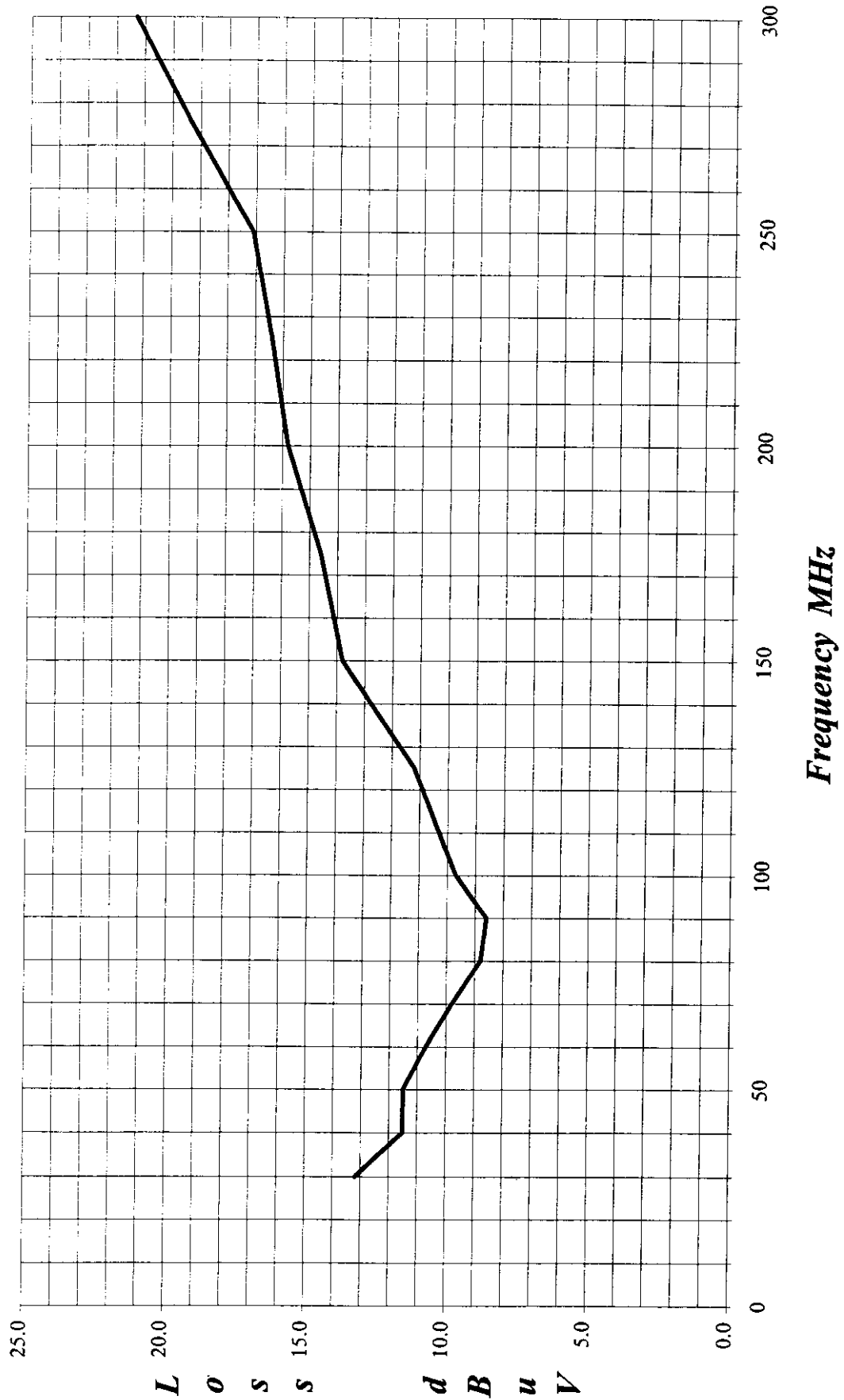
APPENDIX B

***ANTENNA FACTORS AND
EFFECTIVE GAIN FACTORS***



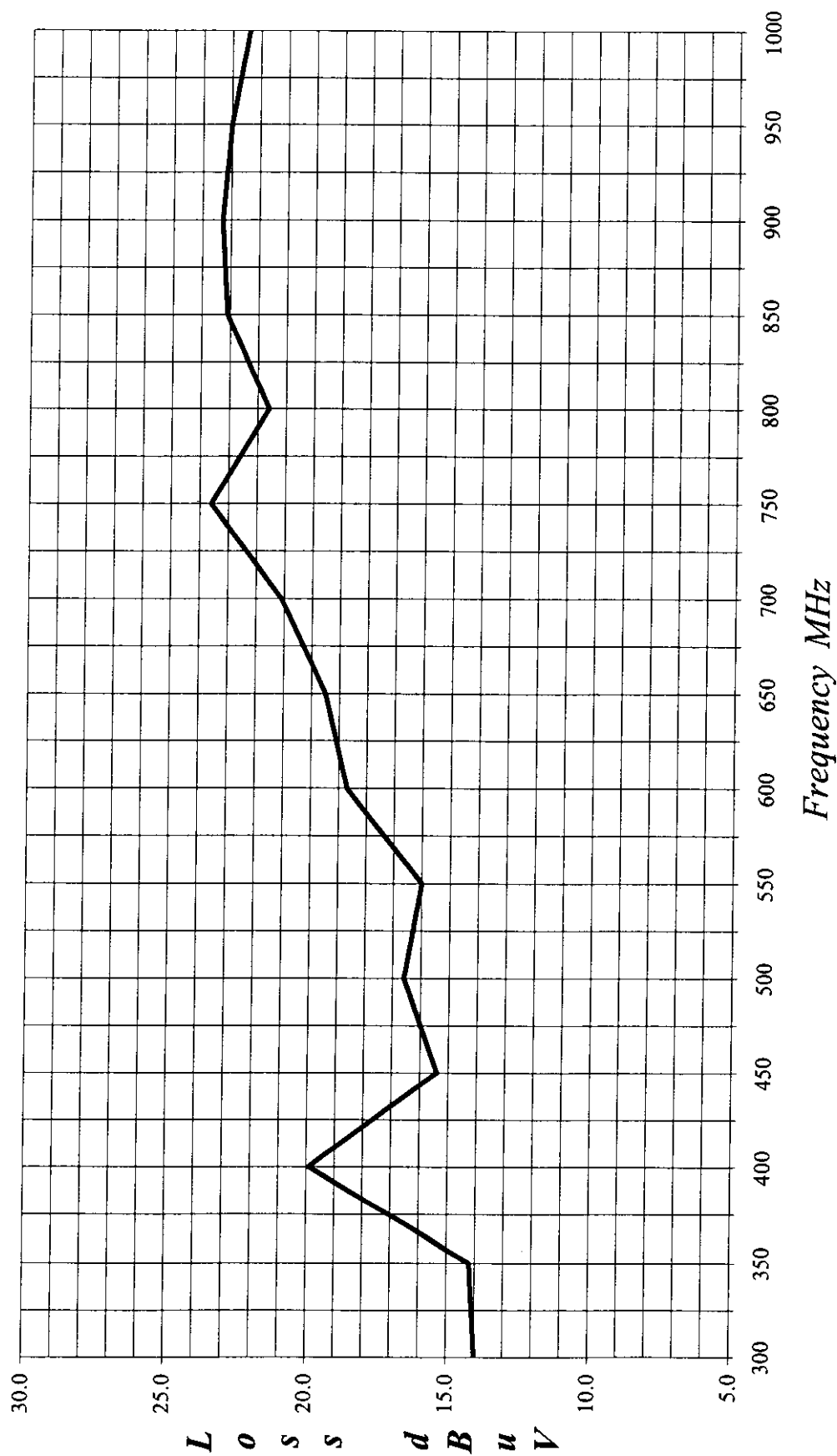
Cal: 3/24/98

LAB "D" BICONICAL ANTENNA AB-100 S/N 01548



Cal: 2/13/98

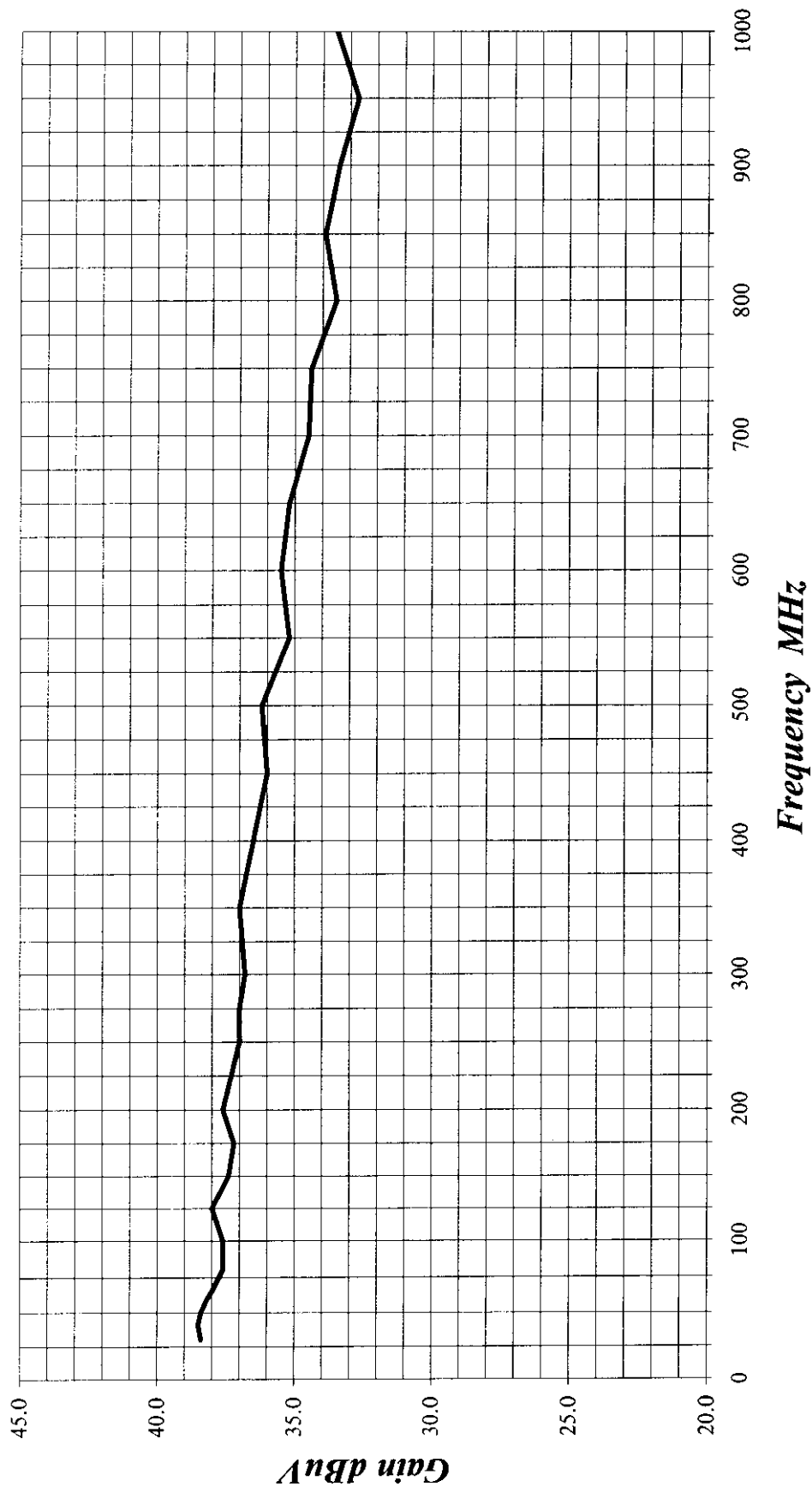
LAB "D" LOG PERIODIC ANTENNA AL-100 S/N 01012





Lab "D" Effective: 2/16/98 Effective Gain = Preamplifier Gain - Cable Loss

PREAMPLIFIER EFFECTIVE GAIN AT 3 METERS S/N: 1017



COM-POWER PA-122**MICROWAVE PREAMPLIFIER****S/N: 001****CALIBRATION DATE: MARCH 31, 1998**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	33.0	8.0	31.4
1.1	33.0	8.5	30.5
1.2	32.9	9.0	31.4
1.3	32.9	9.5	32.6
1.4	32.8	10.0	33.1
1.5	32.7	10.5	32.1
1.6	33.0	11.0	31.0
1.7	33.0	11.5	31.0
1.8	33.1	12.0	30.9
1.9	32.9	12.5	30.9
2.0	33.1	13.0	30.4
2.5	32.7	13.5	31.0
3.0	32.4	14.0	29.3
3.5	32.1	14.5	28.5
4.0	31.8	15.0	27.6
4.5	31.5	15.5	27.6
5.0	31.6	16.0	27.3
5.5	32.0	16.5	29.3
6.0	31.6	17.0	30.4
6.5	32.0	17.5	31.1
7.0	31.4	18.0	29.7
7.5	32.0	18.5	29.3

E-FIELD ANTENNA FACTOR CALIBRATION

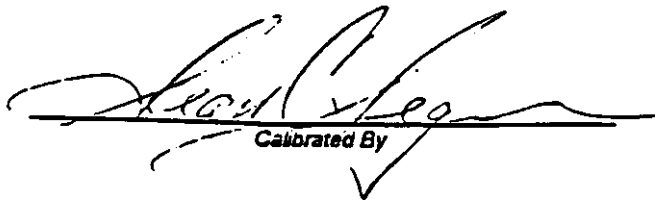
$$E(\text{dB V/m}) = V_o(\text{dB V}) + AFE(\text{dB/m})$$

Model number : DRG-118/A

Frequency GHz	AFE dB/m	Gain dBi
1	22.3	8.0
2	28.7	9.5
3	29.7	10.1
4	29.5	12.8
5	32.3	12.0
6	32.4	13.4
7	36.1	11.0
8	37.4	10.9
9	36.8	12.5
10	39.5	10.7
11	39.6	11.5
12	39.8	12.0
13	39.7	12.8
14	41.8	11.3
15	41.9	11.9
16	38.1	16.3
17	41.0	13.9
18	46.5	8.9

Serial number : 1053
Job number : 96-092
Remarks : 3 meter calibration
Standards : LPD-118/A, TE-1000

Temperature : 72° F
Humidity : 56 %
Traceability : A01887
Date : December 08, 1995


Calibrated By

Com-Power Corporation		
	(714) 587-9800	
	Antenna Calibration	
Antenna Type:		Loop Antenna
Model:		AL-130
Serial Number:		25309
Calibration Date:		2/5/98
Frequency MHz	Magnetic (dB/m)	Electric dB/m
0.01	-40.5	11.0
0.02	-41.6	9.9
0.03	-40.0	11.5
0.04	-40.3	11.2
0.05	-41.6	9.9
0.06	-41.1	10.4
0.07	-41.3	10.2
0.08	-41.6	9.9
0.09	-41.7	9.8
0.1	-41.8	9.7
0.2	-44.0	7.5
0.3	-41.6	9.9
0.4	-41.7	9.8
0.5	-41.7	9.8
0.6	-41.5	10.0
0.7	-41.5	10.0
0.8	-41.6	9.9
0.9	-41.6	9.9
1	-41.1	10.4
2	-40.7	10.8
3	-40.7	10.8
4	-40.9	10.6
5	-40.1	11.4
6	-40.0	11.5
7	-40.3	11.2
8	-39.8	11.7
9	-38.8	12.7
10	-40.8	10.7
12	-41.4	10.1
14	-41.4	10.1
15	-40.9	10.6
16	-40.8	10.7
18	-41.5	10.0
20	-41.5	10.0
25	-41.2	10.3
30	-41.4	10.1
Trans. Antenna Height		2 meter
Receiving Antenna Height		2 meter



APPENDIX C

MODIFICATIONS TO THE EUT



MODIFICATIONS TO THE EUT

The modification listed below were made to the EUT to pass FCC Subpart C specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

Modifications:

- 1) Changed the Inductors on the power input to ferrites with 2 ½ turns on them. (FairRite P/N: 2943666651)



S. MEGGA
TELECOMMUNICATIONS LIMITED

18 June, 1998

Federal Communications Commission
Common Carrier Domestic Services
P.O. Box 358145
Pittsburgh, PA 15251-515

Subject: Modification to pass FCC Part 15
Model: SKYHAWK98
FCC ID: CLHSKYHAWK98

Dear Sirs,

The following modifications were added during compliance testing, and will be implemented into all production models of this equipment.

- 1) Changed the inductors on the power input lines to ferrites with 2 1/2 turns.
(Fair-Rite P/N: 294366651).

If you have any questions or need any additional information, please feel free to call me at (852) 2614-1111.

Sincerely,

Jackson Man
Chief Engineer
S. Megga Telecommunications Ltd.



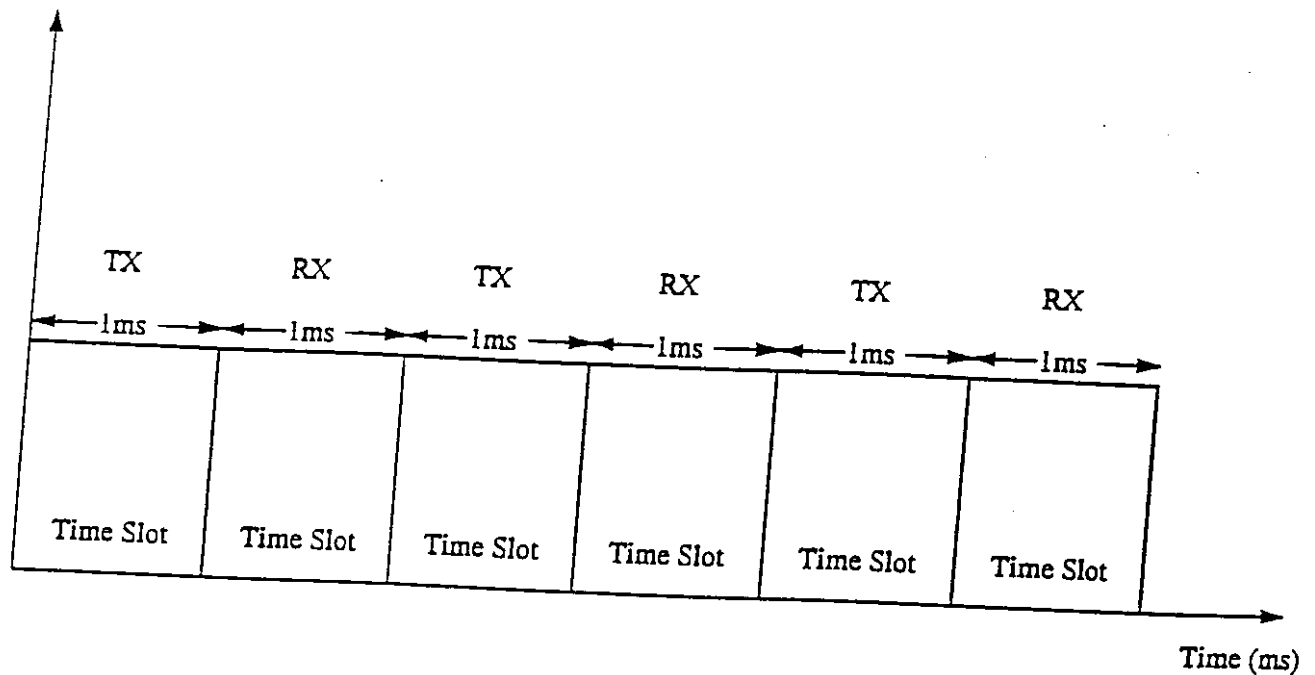
EXHIBIT 7

SCHEMATICS AND DUTY CYCLE INFORMATION

TDD 50% DUTY SYSLE

FCC ID: CLHSKYHAWK98

The RF Modem architecture is a direct conversion transceiver. For transmit analog wave shaped baseband data is BPSK modulated directly to the carrier frequency. For receive, the carrier is directly converted to analog baseband in-phase and quadrature data signals. The DCT uses Time Division Duplexing (TDD) 50% duty cycle to channelize the transmit and receive data. The transmit time slot is 1ms wide, and the receive time slot is also 1ms wide. The result in a 2ms TX/RX superframe 50% duty cycle.



50% DUTY CUCLE OF TRANSMIT AND RECEIVE

Tek Stopped: 4274 Acquisitions

