MEASUREMENT AND TECHNICAL REPORT

SKYPOWER WIRELESS, LTD.
5/F, Po Cheong Commercial Building
29 Prat Avenue, Tsim Sha Tsui
Kowloon, Hong Kong, SAR
CHINA

DATE: 21 August 2003

This Report Concerns:	Original Grant: X	Class II Change:
Equipment Type:	EZ Talk	
Deferred grant requested per 47 CFR 0.457(d)(1)(ii)?	Yes: **Defer until:**	No: X
Company Name **agrees to notify the Commission by: of the intended date of announcement of the product so that the grant can be issued on that date.**	N/A	
Transition Rules Request per 15.37?	Yes:	*No: X

(*) FCC Part 15, Paragraphs 15.247(a); (b); (c); and 15.209(a)

Report Prepared by:

TÜV AMERICA, INC.
10040 Mesa Rim Road
San Diego, CA 92121-2912
Phone: 858 546 3999
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1 GENERAL INFORMATION

1.1 Product Description

Eztalk Blutooth Headset, Model EZ-233
Voltage: 3.7V, 1 phase
Power Cable: Removable, unshielded, 4”
Interface Ports and Cables: SMA; no shielding; coaxial termination; removable
Operating Mode: General, EZTALK1.0 software version
Oscillator Frequency: 24 MHz, Y1

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1 GENERAL INFORMATION (continued)

1.2 Related Submittal/Grant

None

1.3 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system are:

None

1.4 Test Methodology

Purpose of Test: To demonstrate compliance with the ANSI C63.4 setup.

TEST	FCC CFR 47 #	PASS/FAIL
Time of Occupancy	15.247(a)(1)(ii)	Pass
Number of Hopping Frequencies	15.247(a)(1)(ii)	Pass
Bandwidth	15.247(a)(ii)	Pass
Carrier Frequency Separation	15.247(a)(1)	Pass
Peak Output Power	15.247(b)(1)	Pass
Bandedge;	15.247(c)	Pass
Conducted Spurious	15.247(c)	Pass
Radiated Emissions	15.209(a); 15.109(a)	Pass

Both, conducted and radiated testing, were performed according to the procedures in FCC/ANSI C63.4 and CSA 108.8 - M1983.

1.5 Test Facility

The open area test site and conducted measurement data were tested by:

TÜV PRODUCT SERVICE
10040 Mesa Rim Road
San Diego, CA 92121-2912
Phone: 858 546 3999
Fax: 858 546 0364

The Test Site Data and performance comply with ANSI 63.4 and are registered with the FCC, 7435 Oakland Mills Rd, Columbia Maryland 21046. All Measurement Data is acquired according to the content of FCC Measurement Procedure and ANSI C63.4, unless supplemented with additional requirements as noted in the test report.

2. SYSTEM TEST CONFIGURATION

2.1 Justification

The EUT was initially tested for FCC emission in the following configuration:

See Block Diagram exhibit.

2.2 EUT Exercise Software

None

2.3 Special Accessories

None

2.4 Modification

None

2.5 Configuration of Tested System

See Block Diagram exhibit.

3 Time of Occupancy; Number of Hopping Frequencies; Bandwidth; Carrier Frequency Separation; Peak Output Power; Bandedge; Conducted Spurious; and Radiated Emissions Equipment/Data

The following data lists the significant emission frequencies, measured levels, correction factor (which includes cable and antenna corrections), the corrected reading, and the limit.

See following page(s).

See test setup photos exhibit for test setup.

Test Locations
Canyon #2 (3- and 10-Meter Open Area Test Site), Carroll Canyon, San Diego
Roof, (Small Open Area Test Site) San Diego
SR3, Shielded Room, Metal Chamber

Test Equipment Used :

Model #	Property #	Description	Serial #	Cal Due Date
3115	453	Antenna, Double Ridge Guide	9412-4363	12/03
3115	251	Antenna, Double Ridge Guide	2495	11/03
8566B	720	Spectrum Analyzer	211500842	09/03
TUV	719	Preamp, 40 dB	--	NCR
8481A	554	Power Sensor	1926A27807	09/03
436A	775	Power Meter	1918A05312	09/03
3478A	6452	Multimeter	2911A2177	04/04
CBL6111	461	Log Periodic (prescan)	1291	NCR
8566B	744	Spectrum Analyzer	2403A08402	12/03
11970K	--	Preamp	--	NCR
11975A	--	Mixer, 18-26 Gha	--	NCR
LPB25020/A	738	BiLog Antenna	1169	08/04
ESVS30	6723	EMI Receiver	8300350/006	12/03
8900D	--	Peak Power Meter	--	05/04
8411A	--	PP Sensor	--	05/04
VERSA TENN III	6226	Environmental Chamber	--	04/04

Remarks: _____

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Field Strength Calculation

If a preamplifier was used during the Radiated Emission Testing, it is required that the amplifier gain must be subtracted from the Spectrum Analyzer (Meter) Reading. In addition, a correction factor for the antenna , cable used and a distance factor, if any, must be applied to the Meter Reading before a true field strength reading can be obtained. In the automatic measurement, these considerations are automatically presented as a part of the print out. In the case of manual measurements and for greater efficiency and convenience, instead of using these correlation factors for each meter reading, the specification limit was modified to reflect these correlation factors at each frequency value so that the meter readings can be compared directly to the modified specification limit. This modified specification limit is referred to as the "Corrected Meter Reading Limit" or simply the CMRL, which is the actual field strength present at the antenna. The quantity can be derived in the following manner:

Corrected Meter Reading Limit (CMRL) = SAR + AF + CL - AG - DC

Where, SAR = Spectrum Analyzer Reading
AF = Antenna Factor
CL = Cable Loss
AG = Amplifier Gain (if any)
DC = Distance Correction (if any)

Assume the following situation: A meter reading of 29.4 dBuV was obtained from a Class A computing device measured at 83 MHz. Assume an antenna factor of 9.2 dB, a cable loss of 1.4 dB and amplifier gain of 20.0 dB at 83 MHz. The final field strength would be determined as follows:

CMRL = 29.4 dBuV + 9.2dB = 1.4 dB - 20 dB/M - 0.0 dB

CMRL = 20.0 dBuV/M

This result is well below the FCC and CSA Class A limit of 29.5 dbuV/m at 83 MHz.

For the manual mode of measurement, a table of corrected meter reading limit was used to permit immediate comparison of the meter reading to determine if the measure emission amplitude exceeded the specification limit at that specific frequency.

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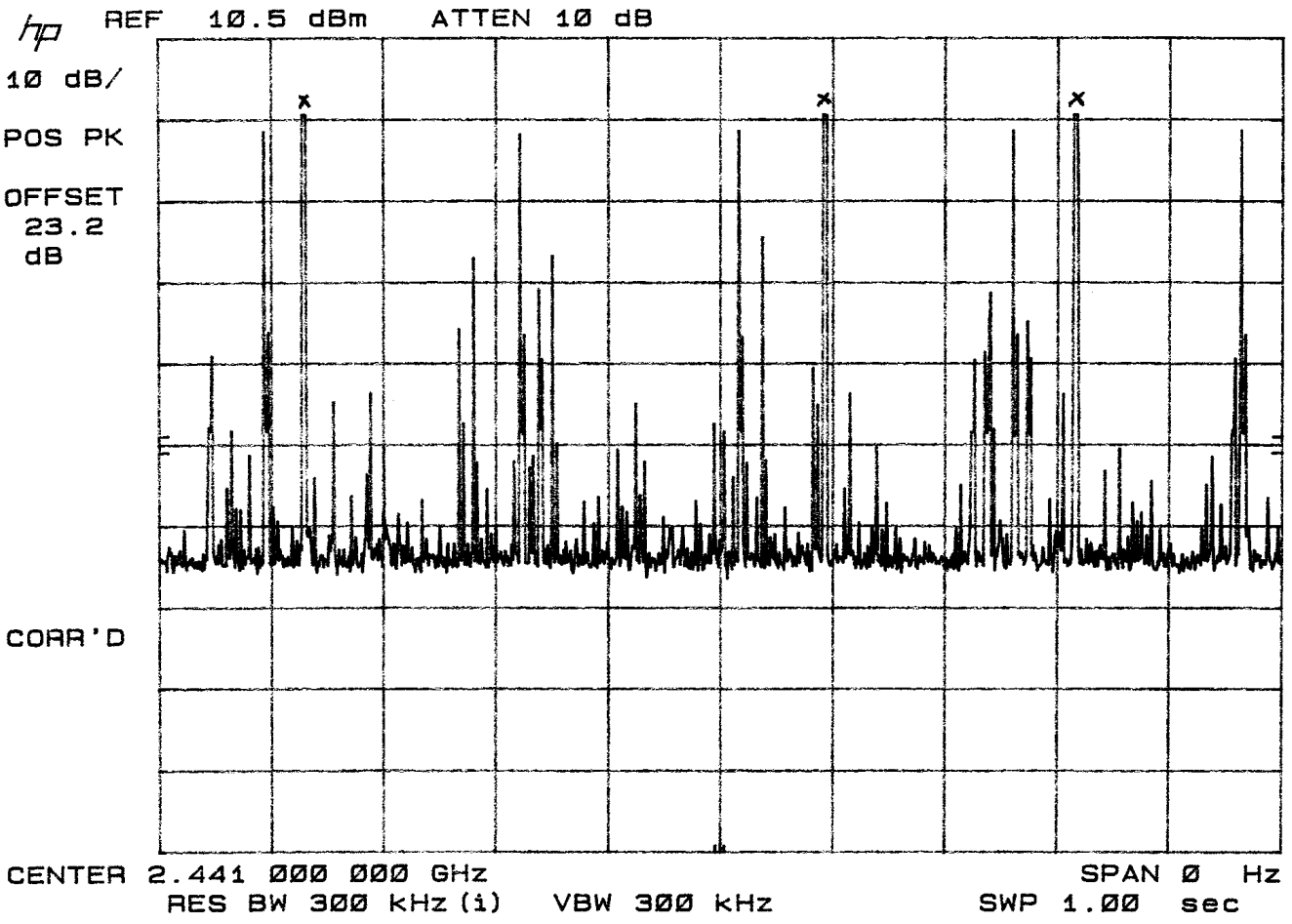
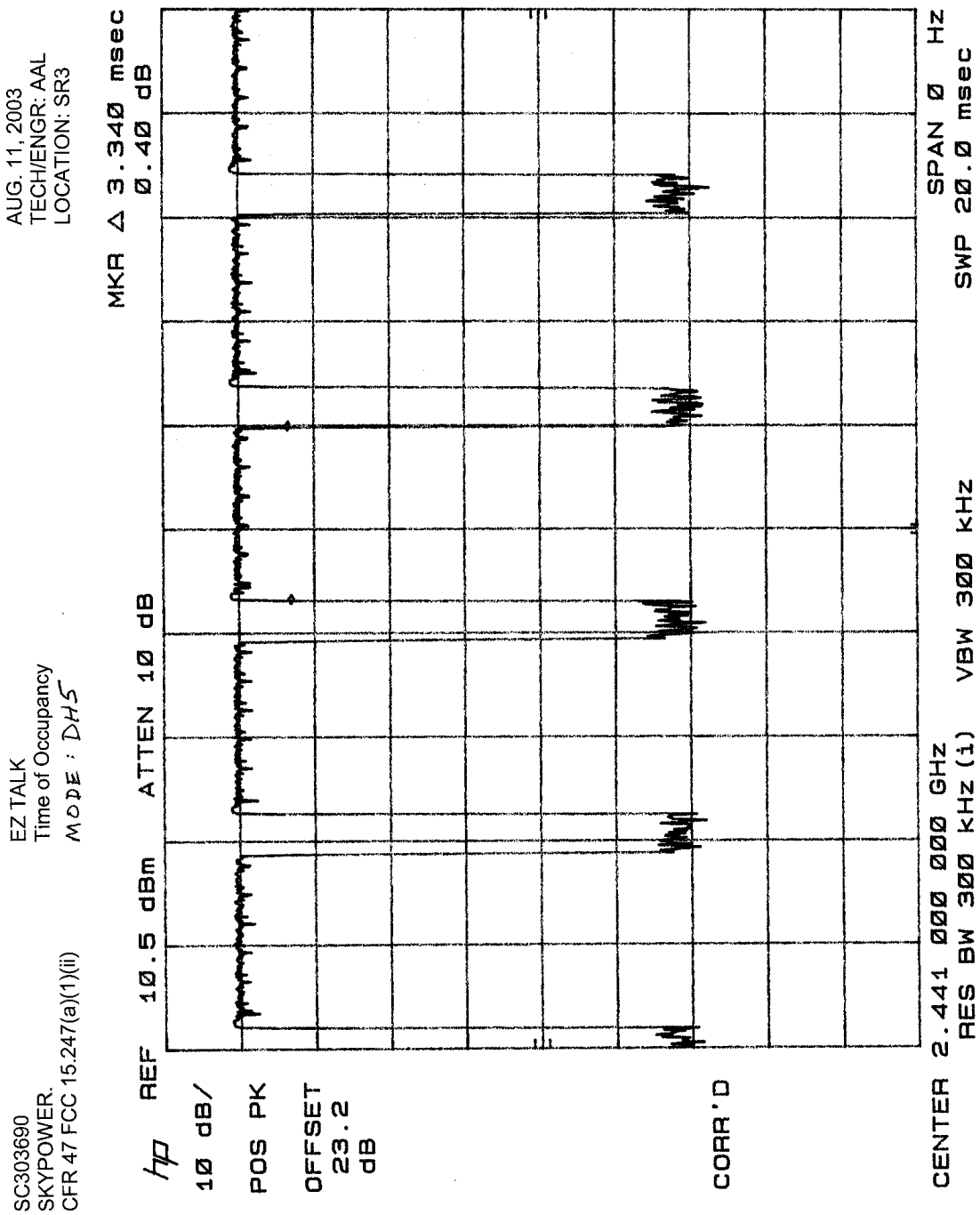
SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(1)(ii)

EZ TALK
Time of Occupancy
MODE: DH5 $\frac{3}{\text{sec}}$ * 30 sec * 3.34 msec = 0.3006 sec
< 0.4 sec

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



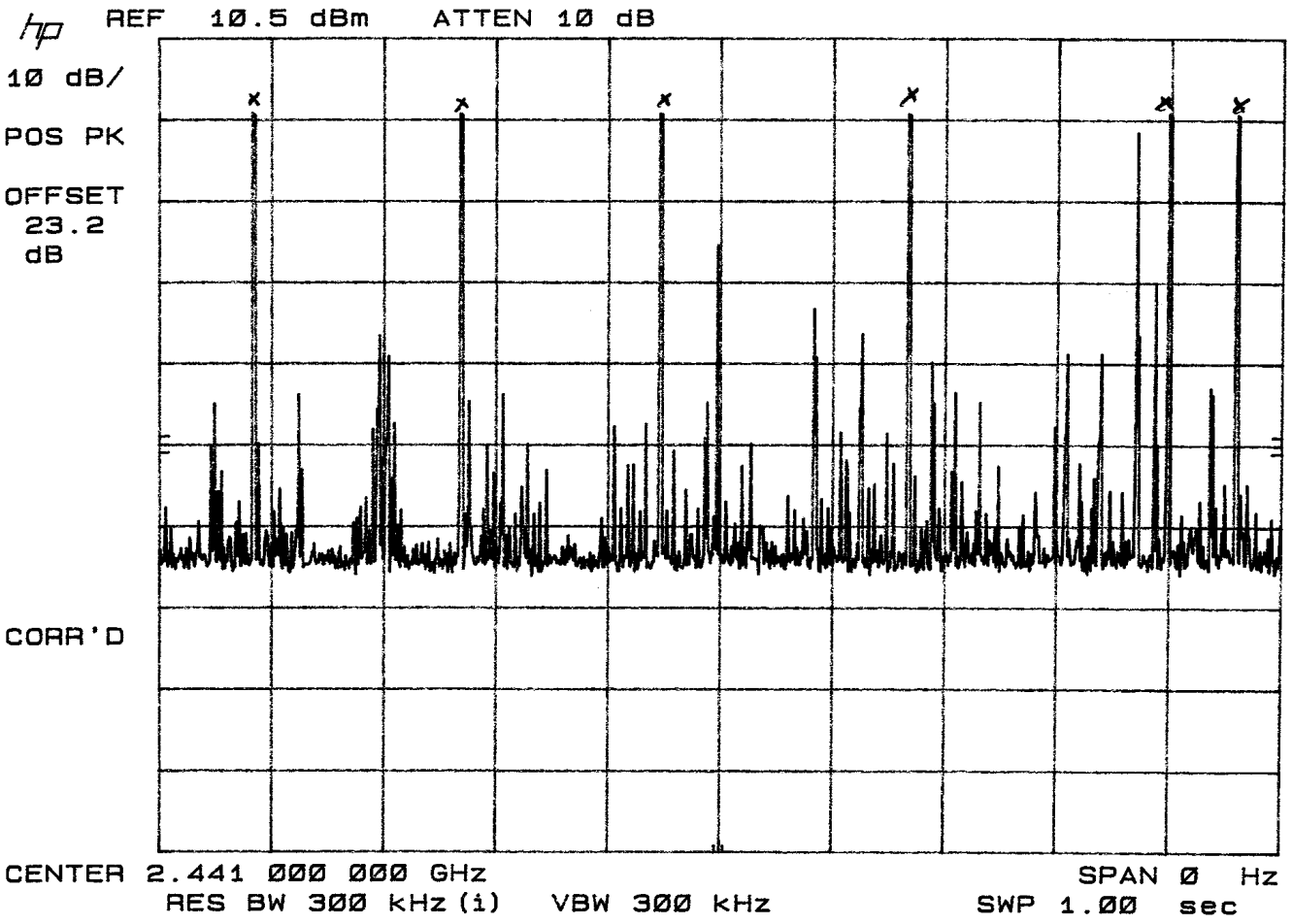

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
EZ TALK
Time of Occupancy
MODE : DHS
SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(1)(ii)
MKR Δ 3.340 msec
0.40 dB
REF 10.5 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
23.2
dB
CORR'D
CENTER 2.441 000 000 GHz
RES BW 300 kHz (i)
VBW 300 kHz
SPAN 0 Hz
SWP 20.0 msec

SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(1)(ii)

EZ TALK
Time of Occupancy
MODE: PH3

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3

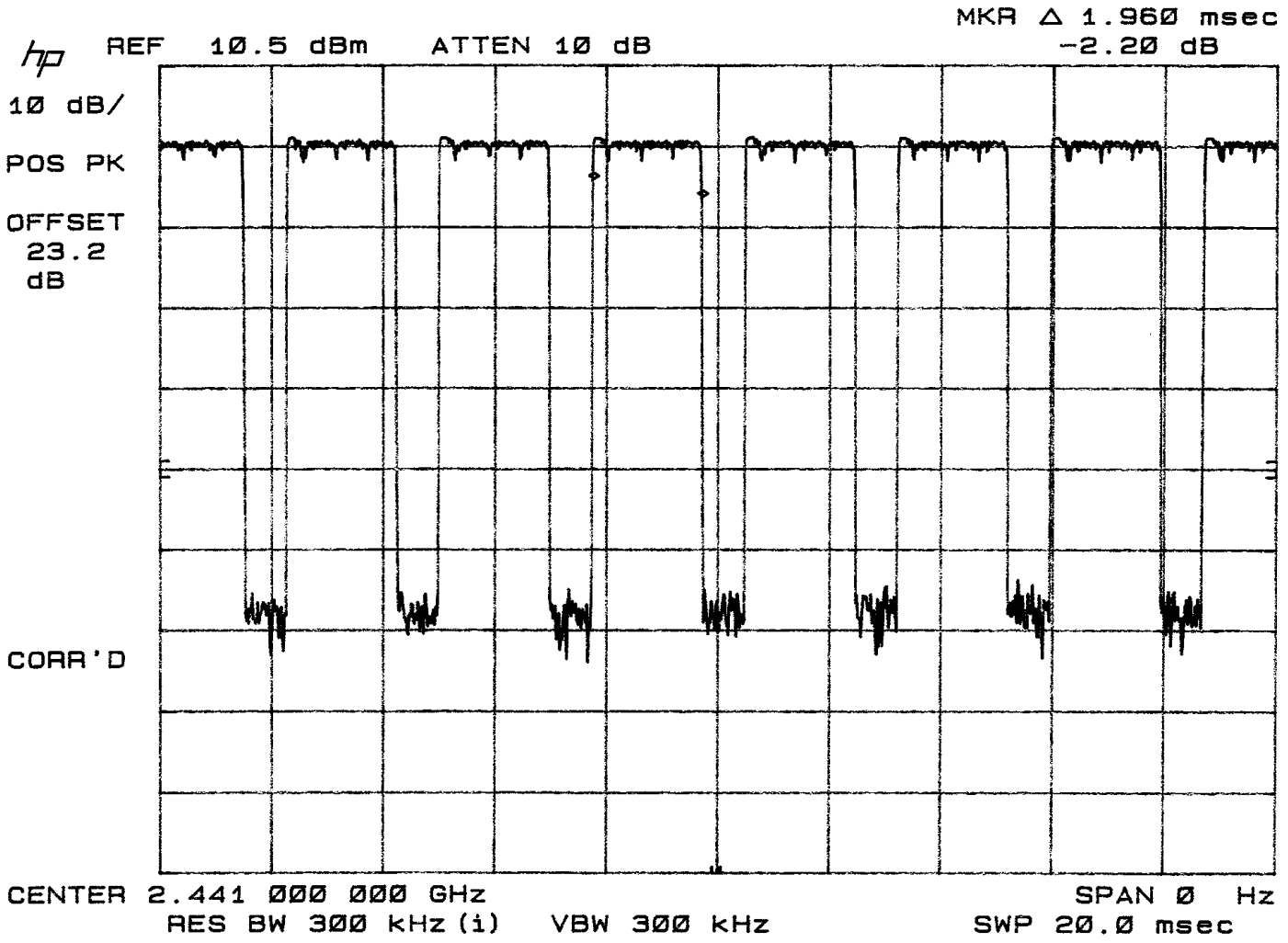
$\frac{6}{sec}$ 1.96 msec x 30 = 0.353 sec
< 0.4

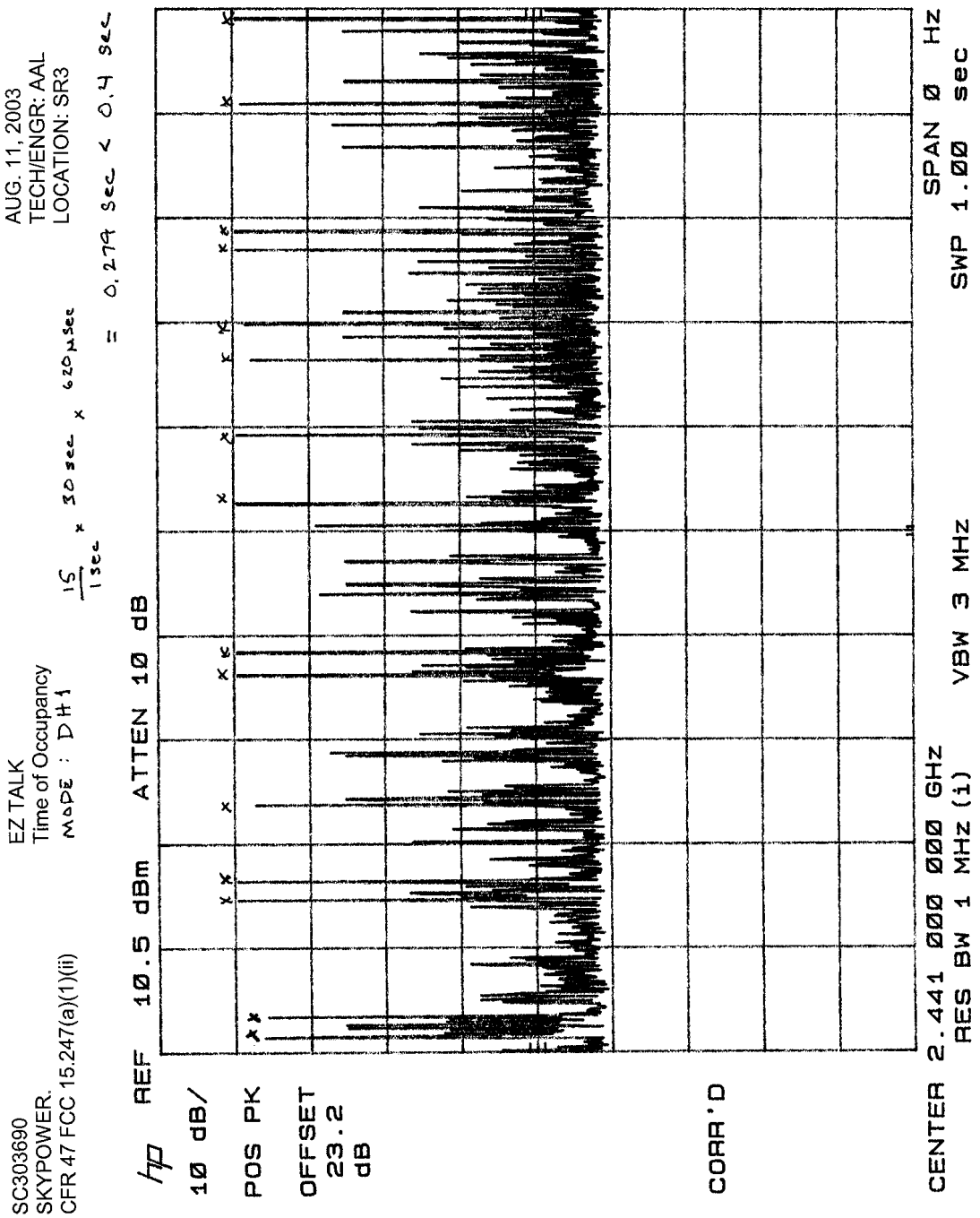


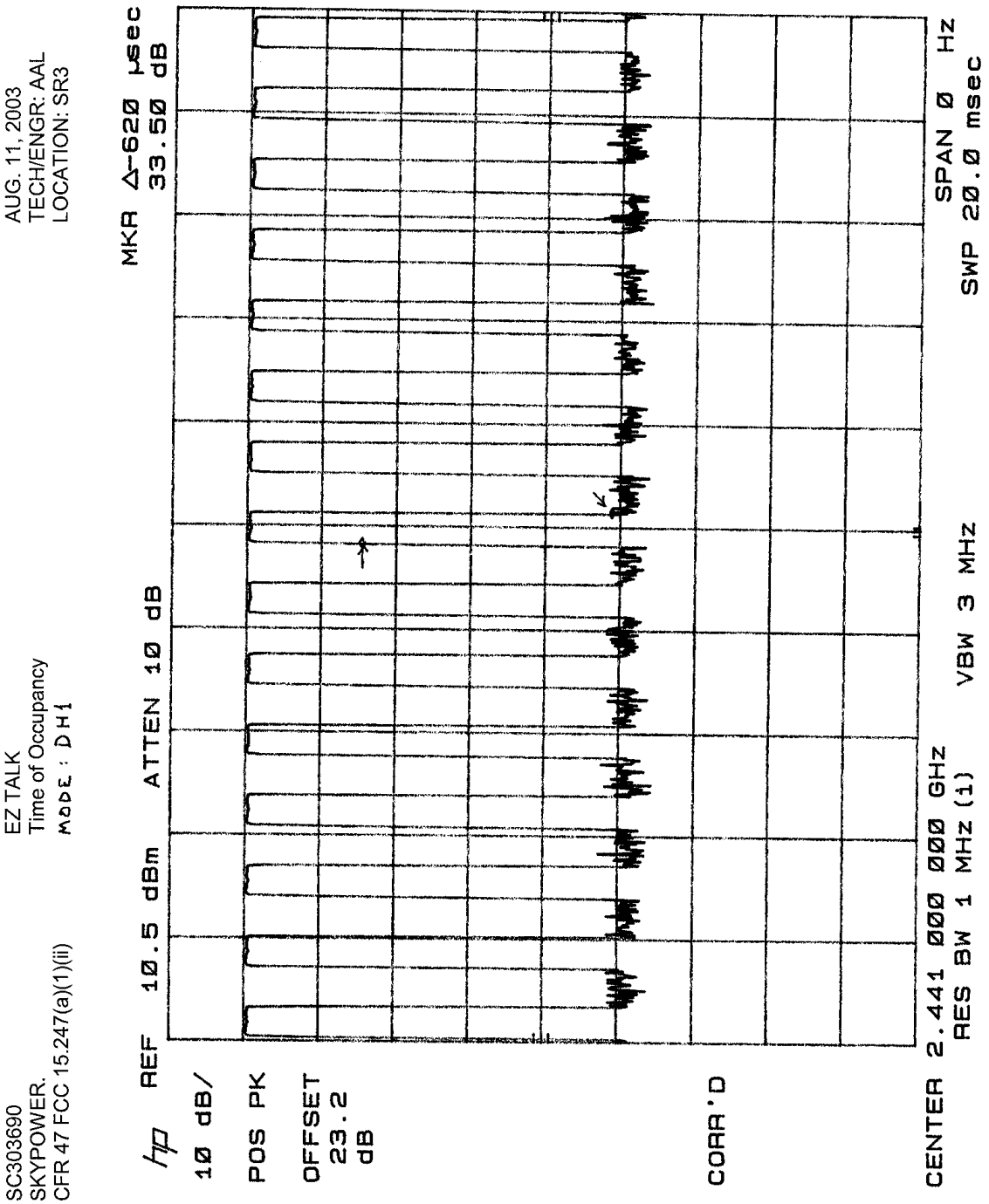
SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(1)(ii)

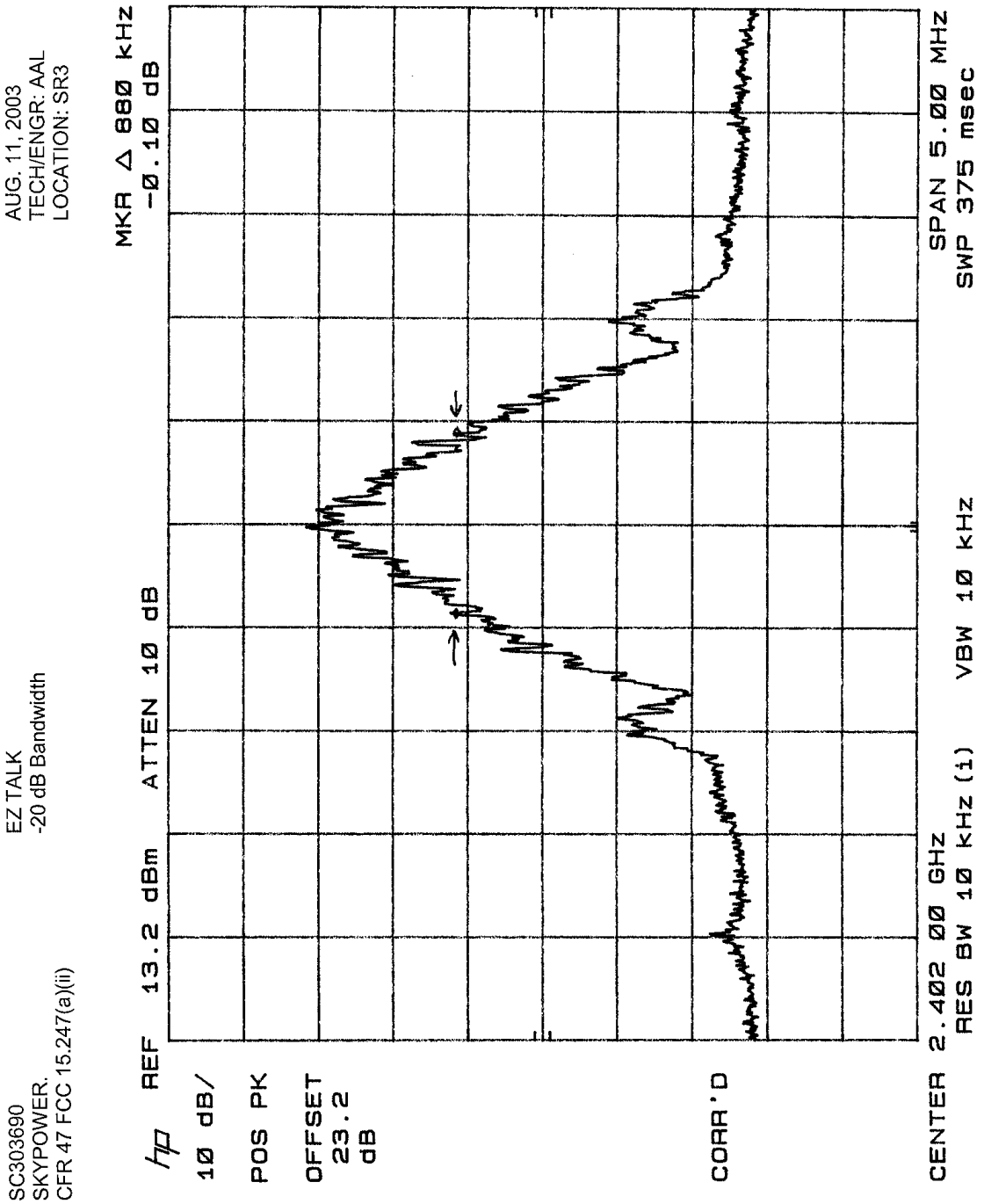
EZ TALK
Time of Occupancy
MODE : DH3

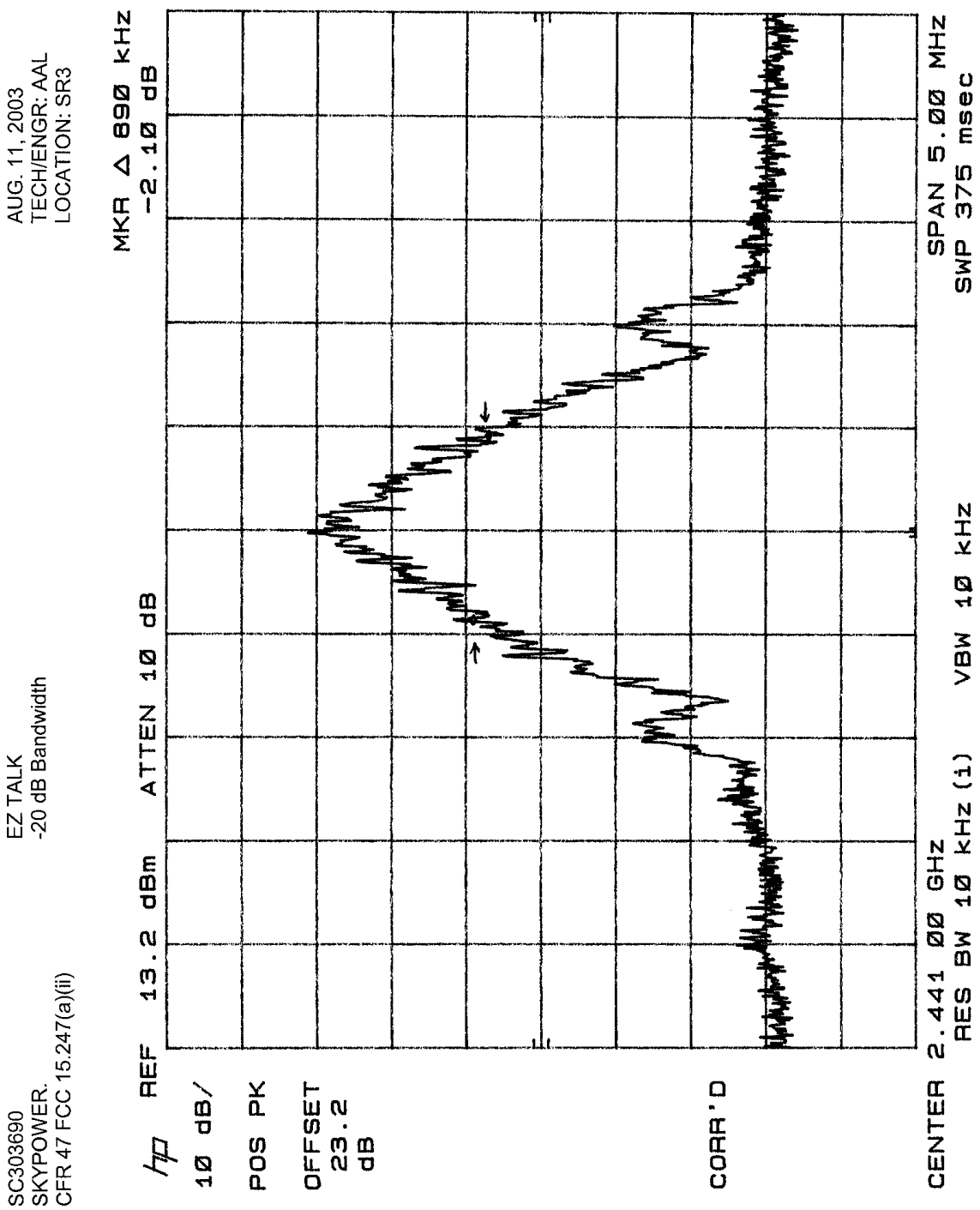
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3

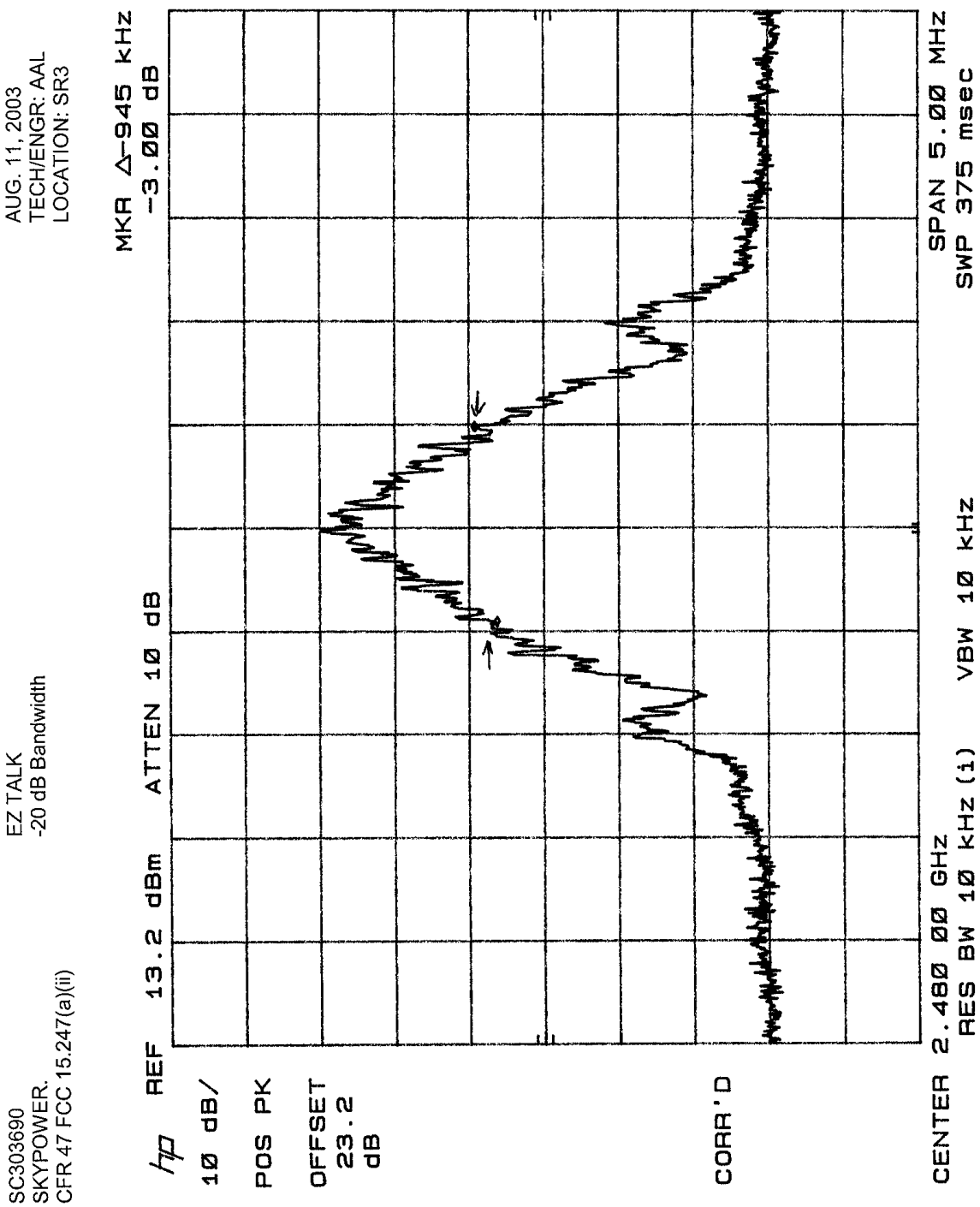


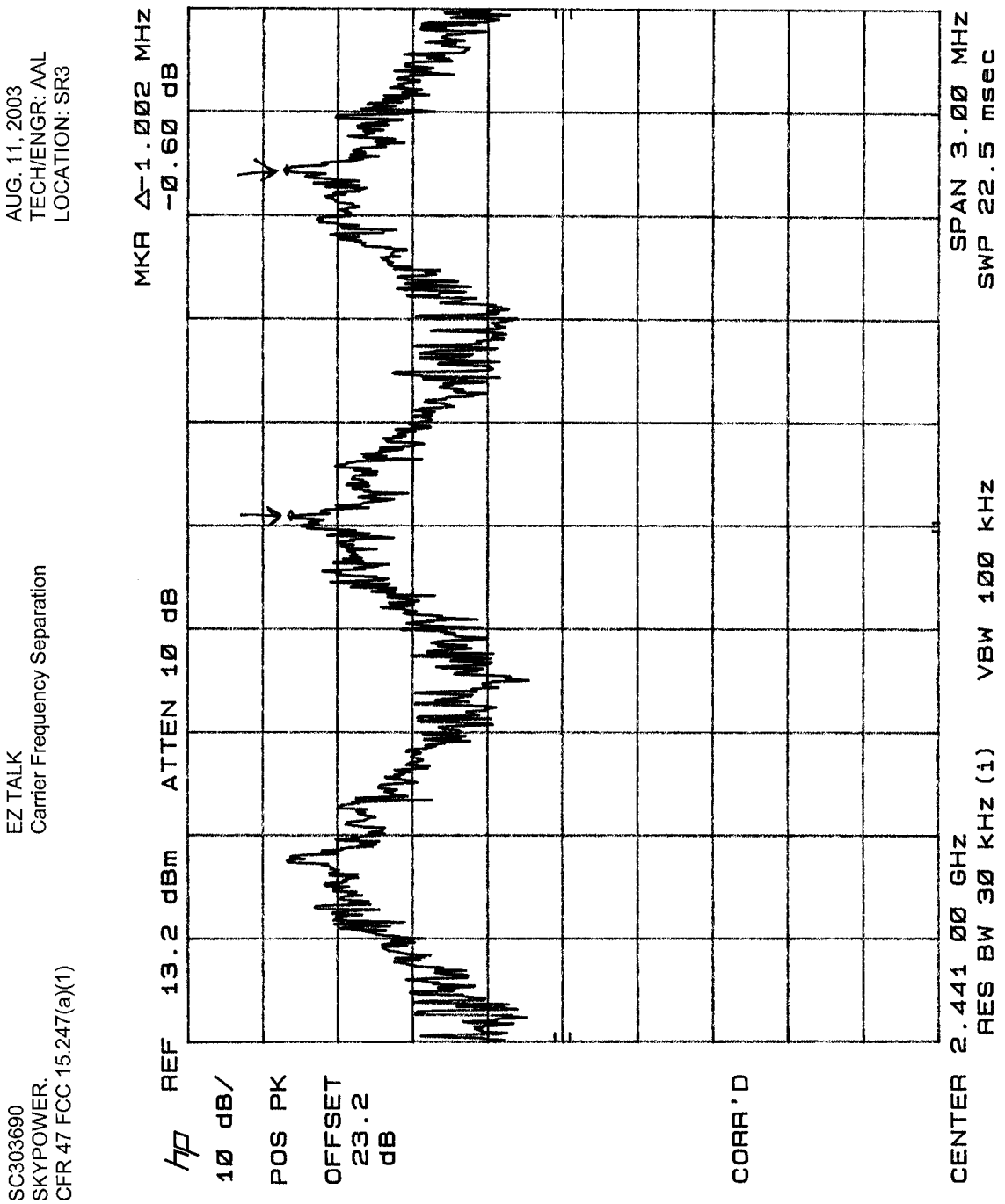

SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(1)(ii)
EZ TALK
Time of Occupancy
MODE : DH1
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
15/1sec x 30 sec x 620 μsec
= 0.279 sec < 0.4 sec
REF 10.5 dBm ATTEN 10 dB
10 dB/
POS PK
OFFSET 23.2 dB
CORR'D
CENTER 2.441 000 000 GHz
RES BW 1 MHz (i)
VBW 3 MHz
SPAN 0 Hz
SWP 1.00 sec


AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
EZ TALK
Time of Occupancy
MODE : DH1
SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(1)(ii)
MKR Δ-620 µsec
33.50 dB
REF 10.5 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
23.2
dB
CORR'D
CENTER 2.441 000 000 GHz
RES BW 1 MHz (1)
VBW 3 MHz
SPAN 0 Hz
SWP 20.0 msec


AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(ii)
EZ TALK
-20 dB Bandwidth
MKR Δ 880 kHz
-0.10 dB
REF 13.2 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
23.2
dB
CORR'D
CENTER 2.402 00 GHz
RES BW 10 kHz (i)
VBW 10 kHz
SPAN 5.00 MHz
SWP 375 msec


AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
EZ TALK
-20 dB Bandwidth
SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(ii)
MKR Δ 890 kHz
-2.10 dB
REF 13.2 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
23.2
dB
CORR'D
CENTER 2.441 00 GHz
RES BW 10 kHz (i)
VBW 10 kHz
SPAN 5.00 MHz
SWP 375 msec


AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(ii)
EZ TALK
-20 dB Bandwidth
MKR Δ-945 kHz
-3.00 dB
REF 13.2 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
23.2
dB
CORR'D
SPAN 5.00 MHz
SWP 375 msec
CENTER 2.480 00 GHz
RES BW 10 kHz (i)
VBW 10 kHz


AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
EZ TALK
Carrier Frequency Separation
SC303690
SKYPOWER.
CFR 47 FCC 15.247(a)(1)
MKR Δ-1.002 MHz
-0.60 dB
REF 13.2 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
23.2
dB
CORR'D
CENTER 2.441 00 GHz
RES BW 30 kHz (i)
VBW 100 kHz
SPAN 3.00 MHz
SWP 22.5 msec

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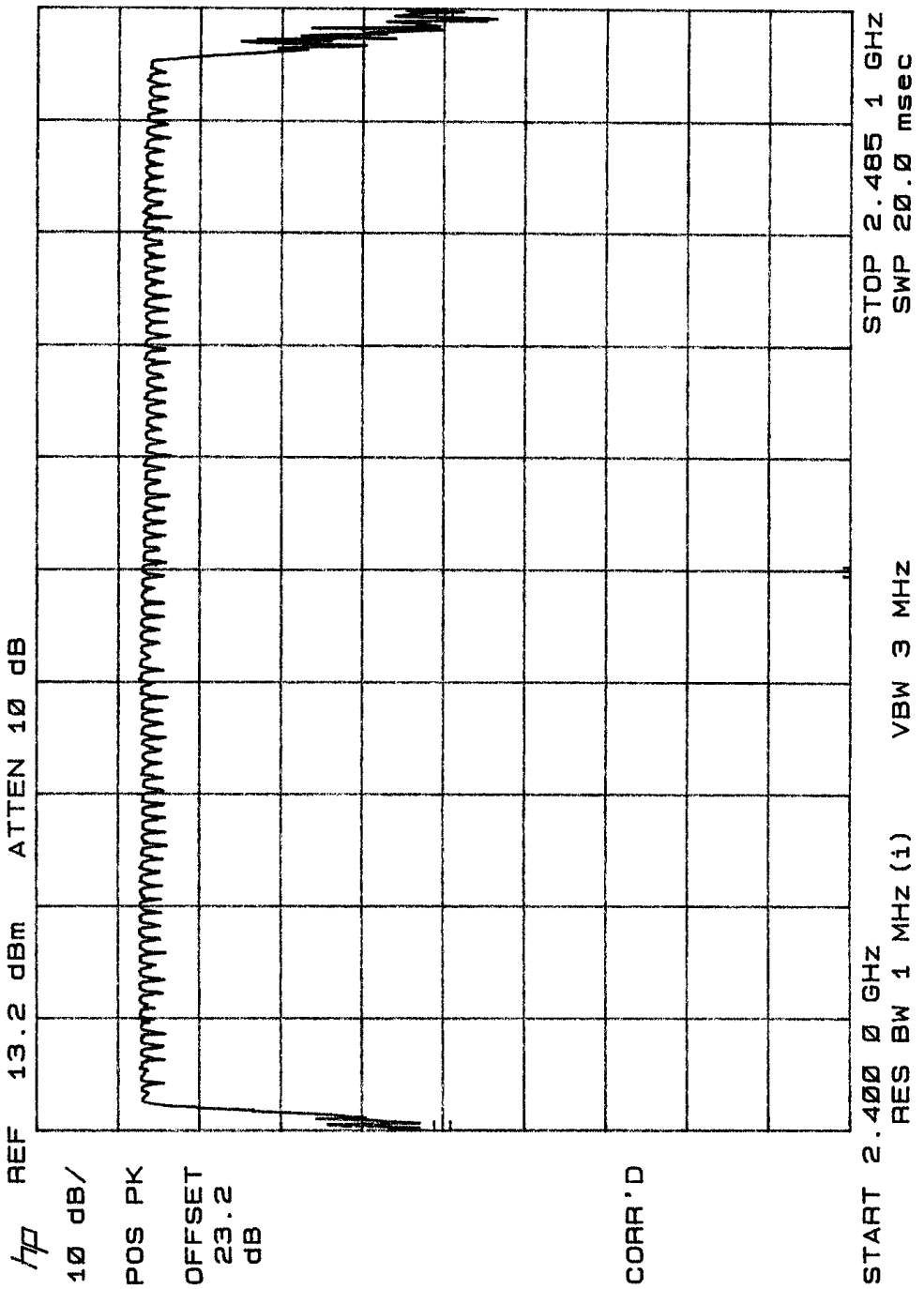
SKYPOWER.
CFR 47 FCC 15.247(a)(1)(ii)

EZ TALK
Number of Hopping Frequencies
count = 79

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



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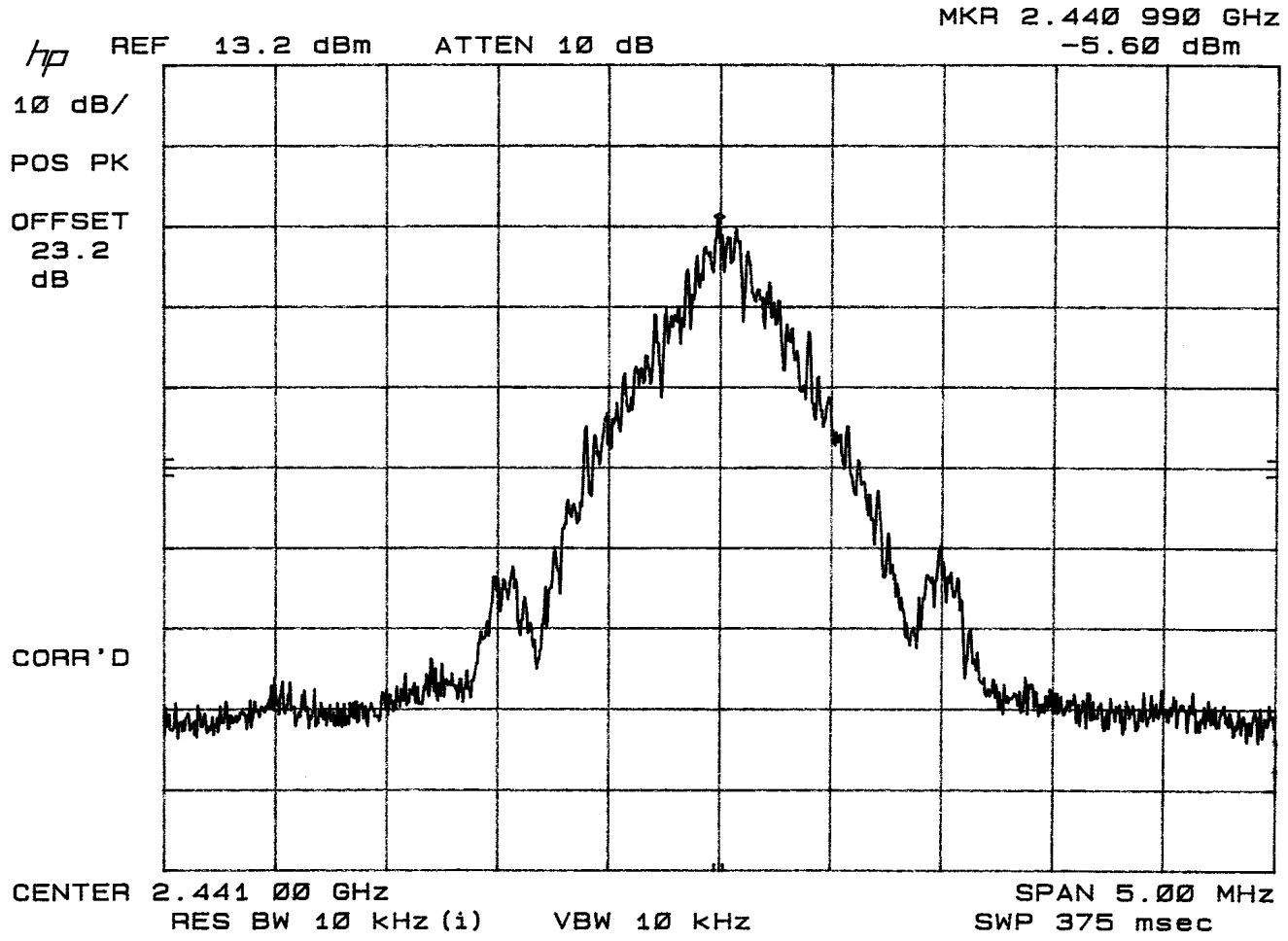
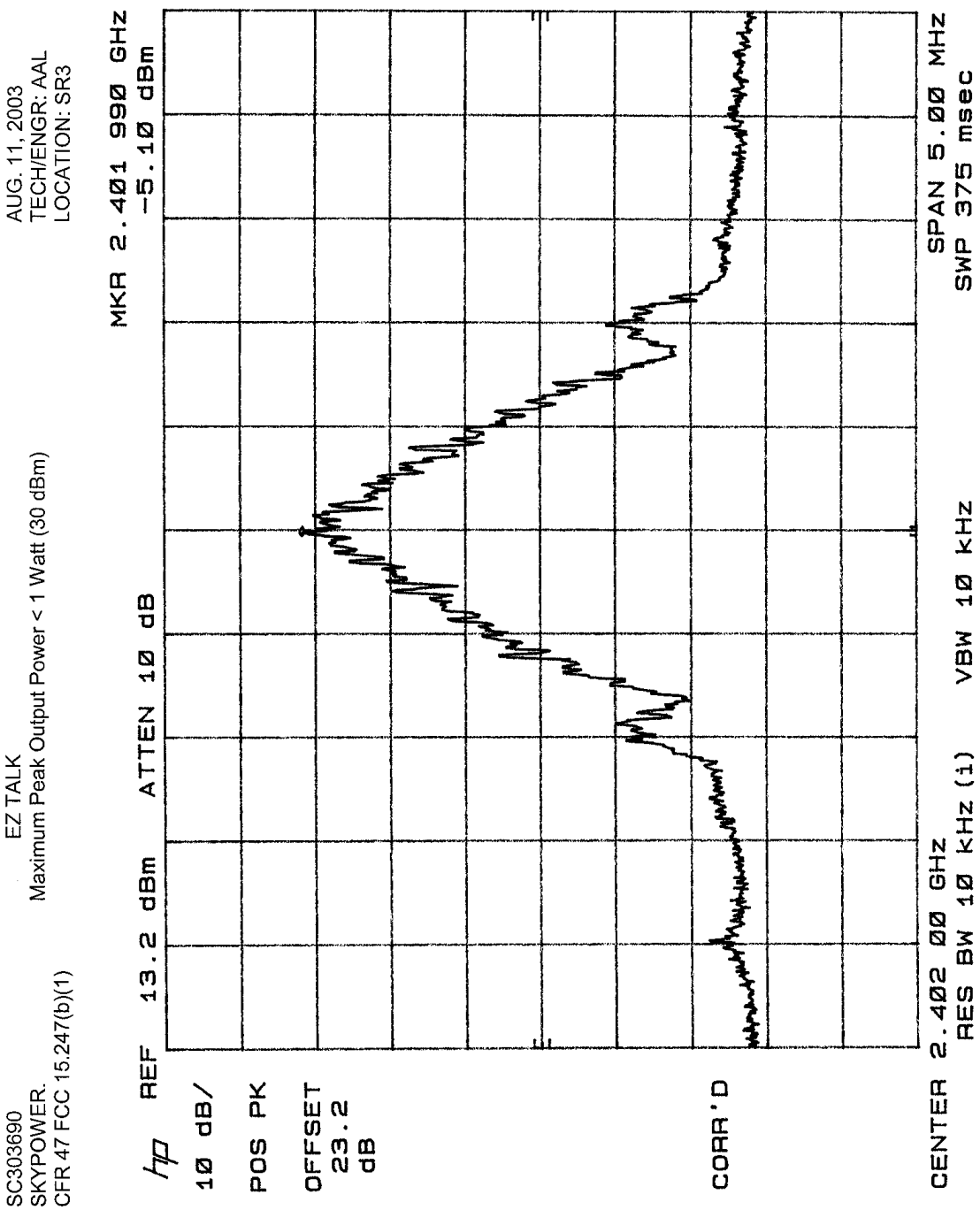
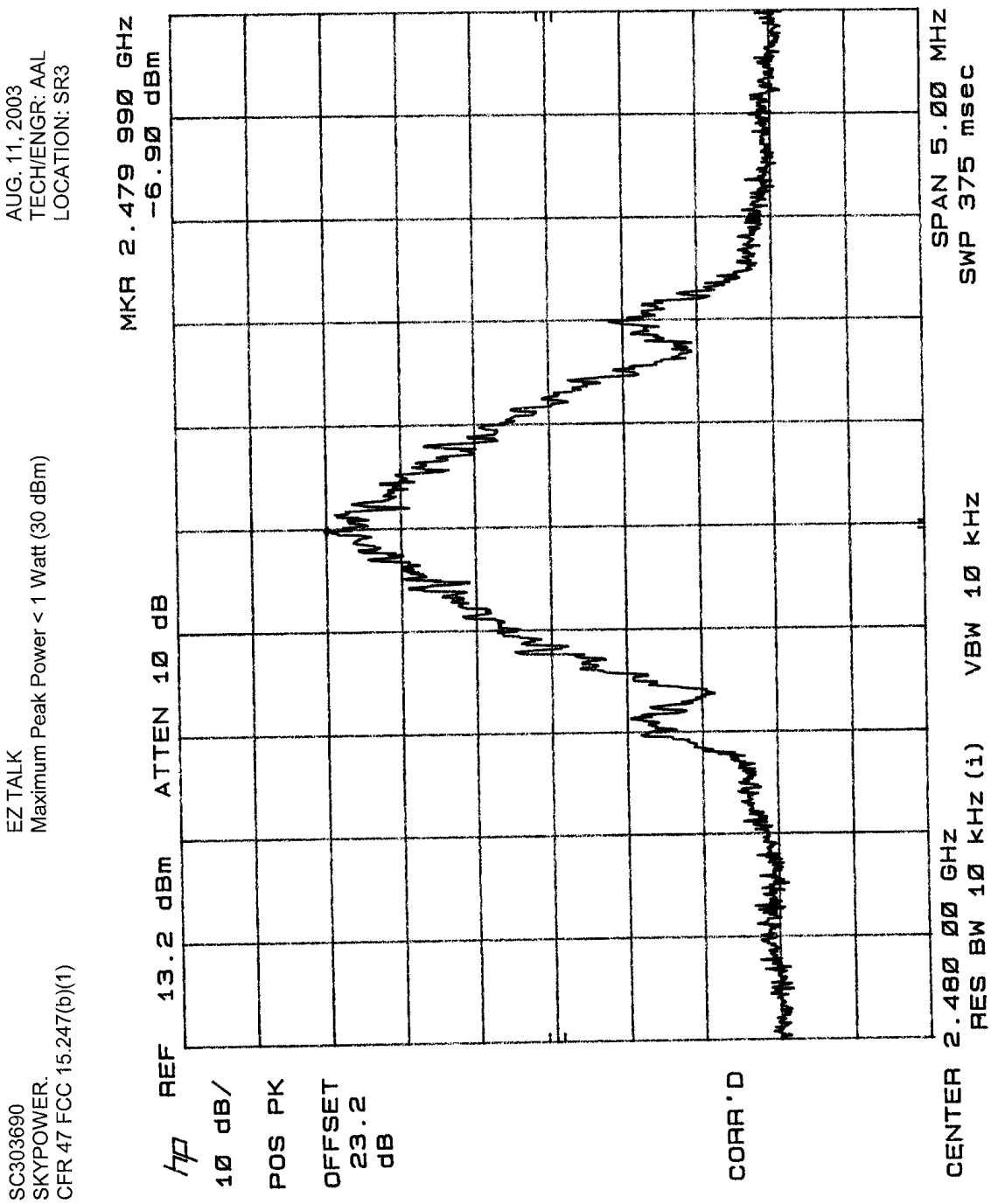
SKYPOWER.
CFR 47 FCC 15.247(b)(1)

EZ TALK
Maximum Peak Power < 1 Watt (30 dBm)

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



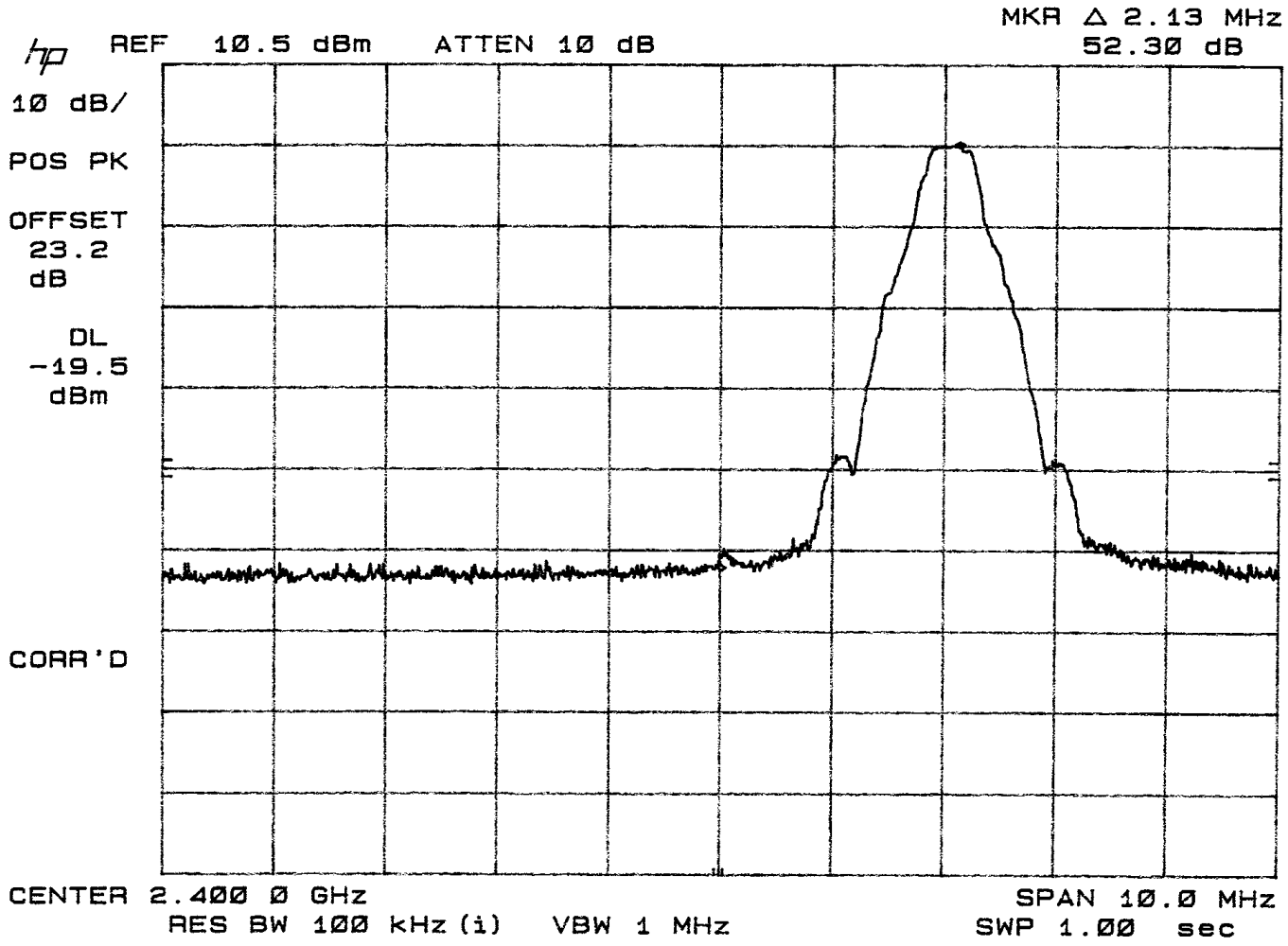

SC303690
SKYPOWER.
CFR 47 FCC 15.247(b)(1)
EZ TALK
Maximum Peak Output Power < 1 Watt (30 dBm)
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
MKR 2.401 990 GHz
-5.10 dBm
REF 13.2 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
23.2
dB
CORR'D
CENTER 2.402 00 GHz
RES BW 10 kHz (i)
VBW 10 kHz
SPAN 5.00 MHz
SWP 375 msec


AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
EZ TALK
Maximum Peak Power < 1 Watt (30 dBm)
SC303690
SKYPOWER.
CFR 47 FCC 15.247(b)(1)
MKR 2.479 990 GHz
-6.90 dBm
REF 13.2 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
23.2
dB
CORR'D
CENTER 2.480 00 GHz
RES BW 10 kHz (i)
VBW 10 kHz
SPAN 5.00 MHz
SWP 375 msec

SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Lower BandEdge – Modulation On, Channel 0

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



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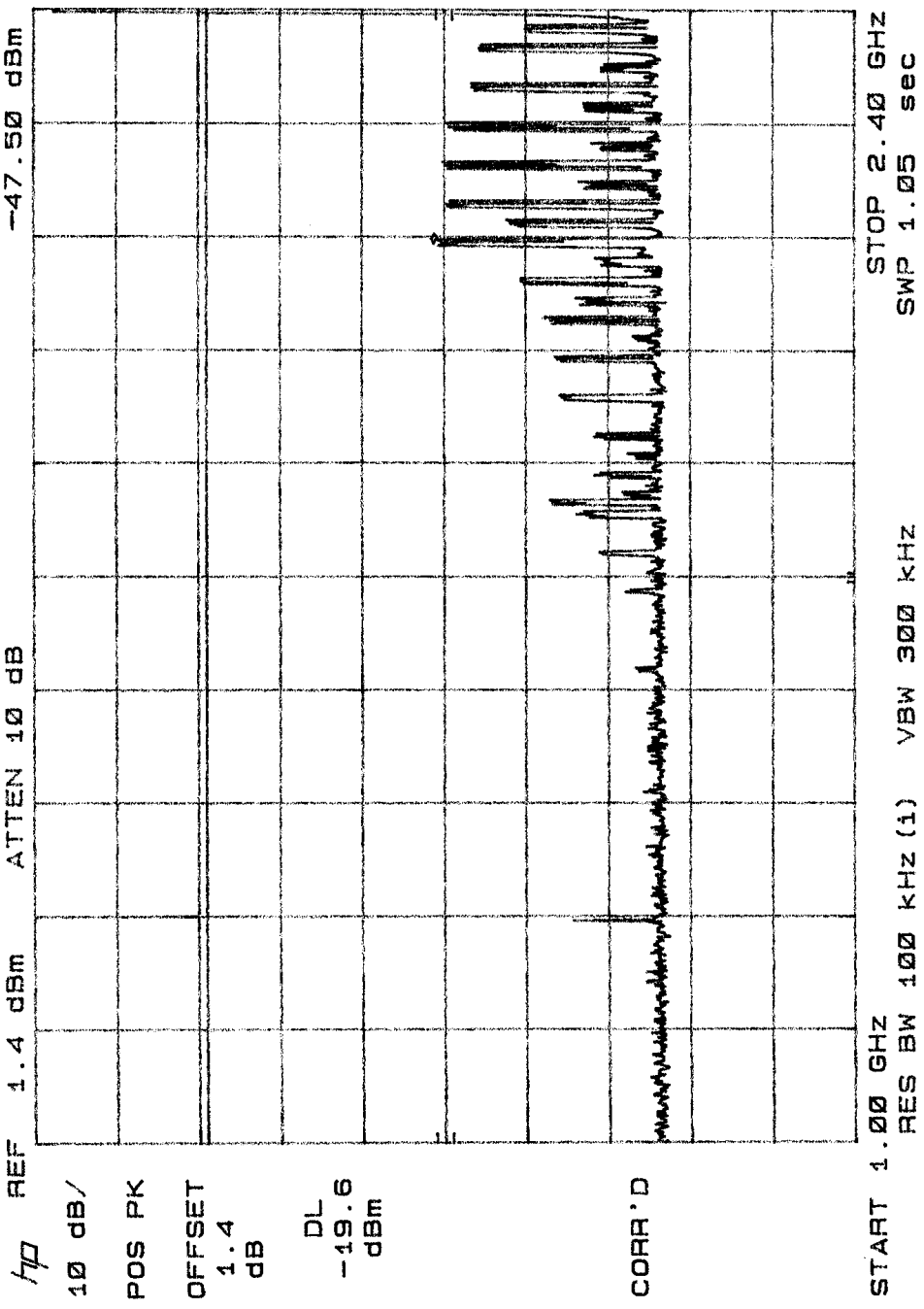
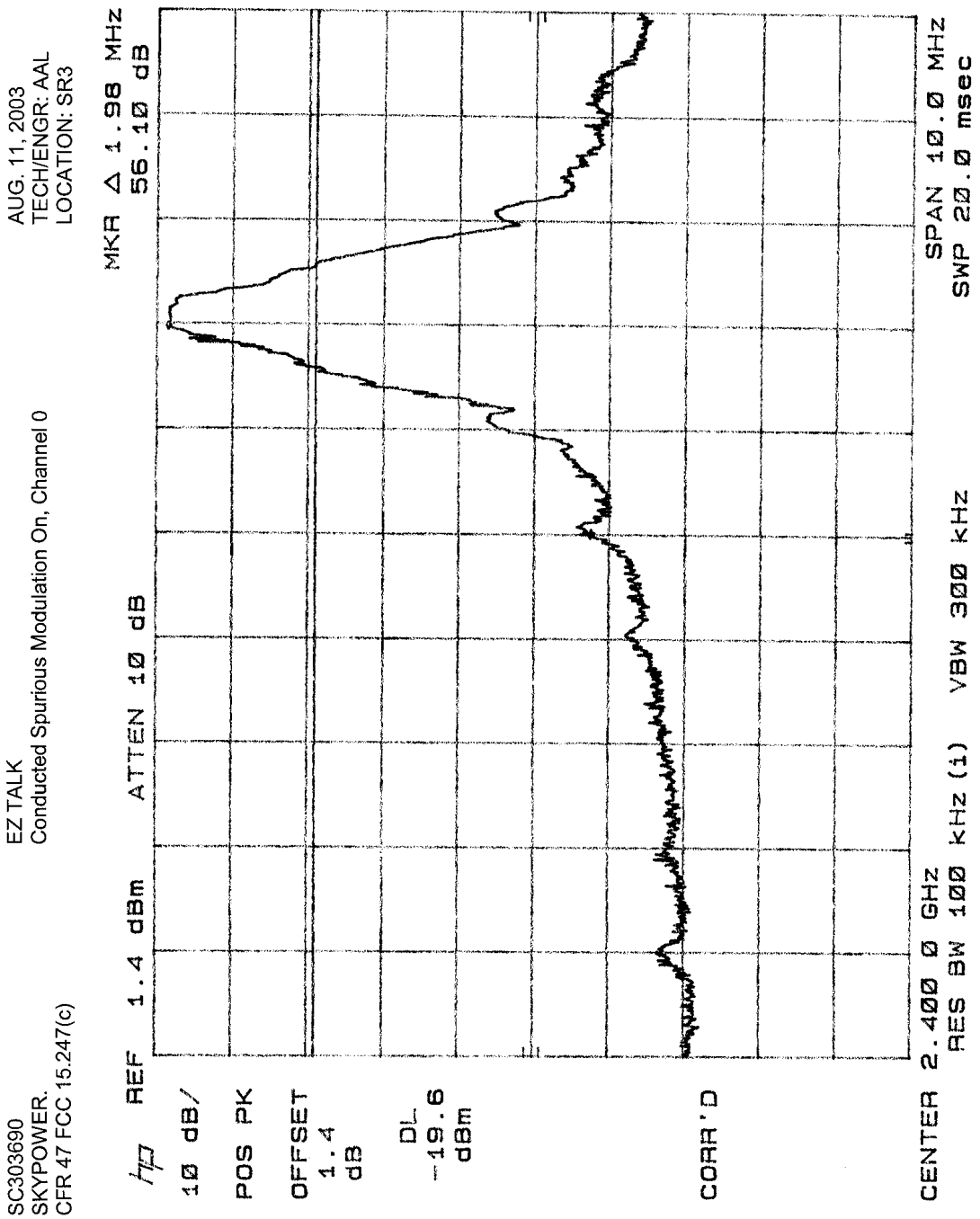
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 0

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3




SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)
EZ TALK
Conducted Spurious Modulation On, Channel 0
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
MKR Δ 1.98 MHz
56.10 dB
REF 1.4 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
1.4
dB
DL
-19.6
dBm
CORR'D
CENTER 2.400 0 GHz
RES BW 100 kHz (i)
VBW 300 kHz
SPAN 10.0 MHz
SWP 20.0 msec

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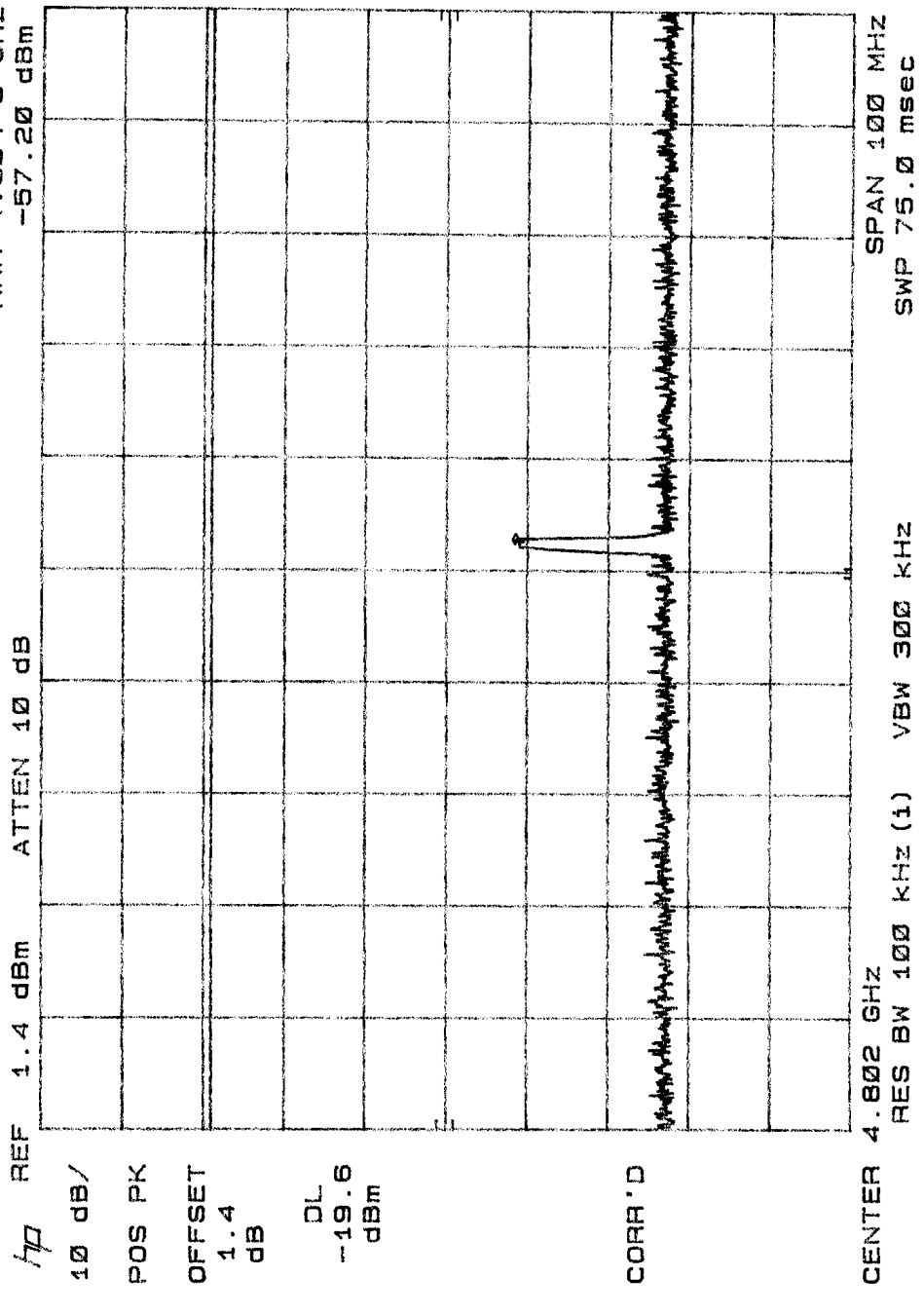
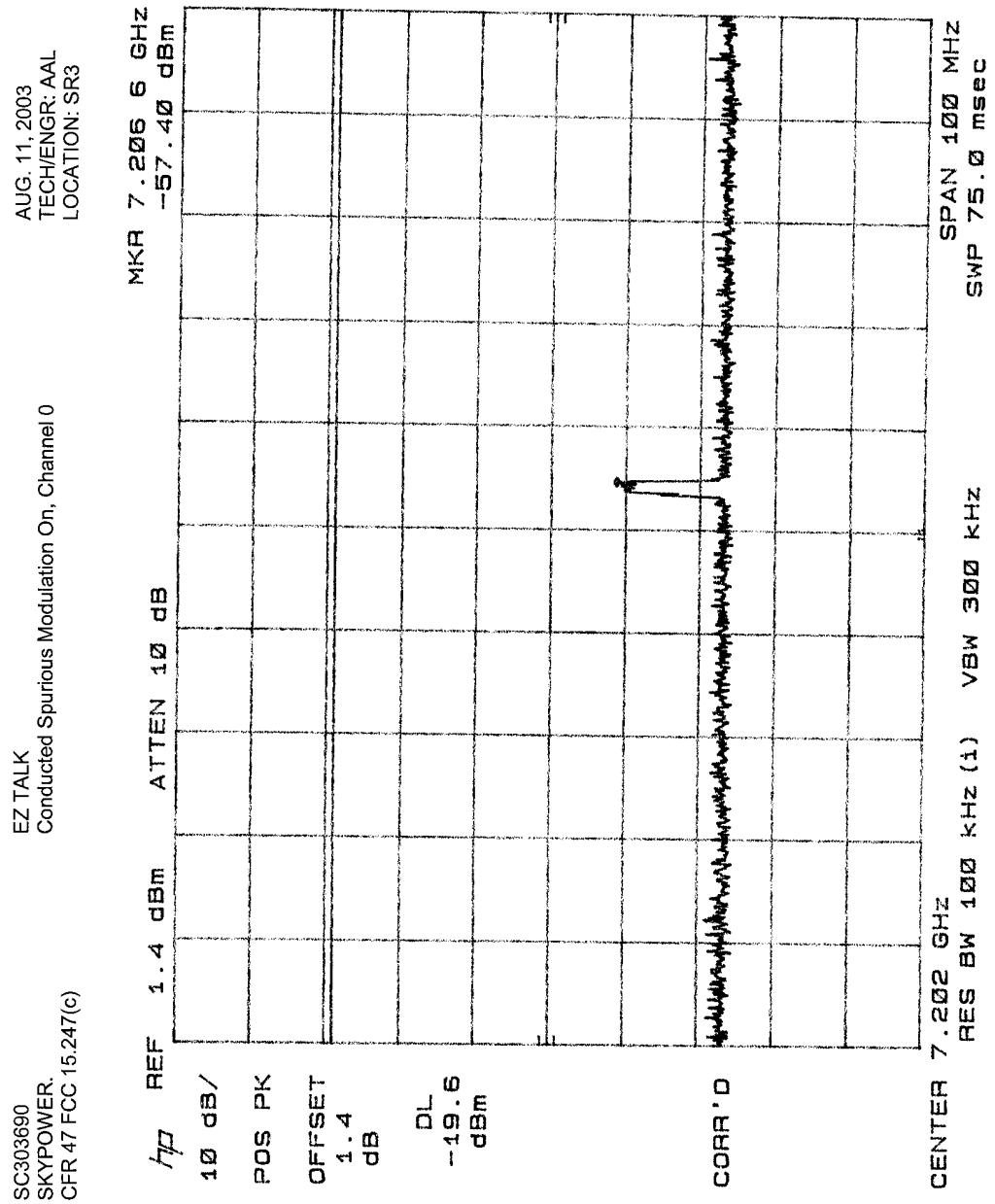
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 0

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3

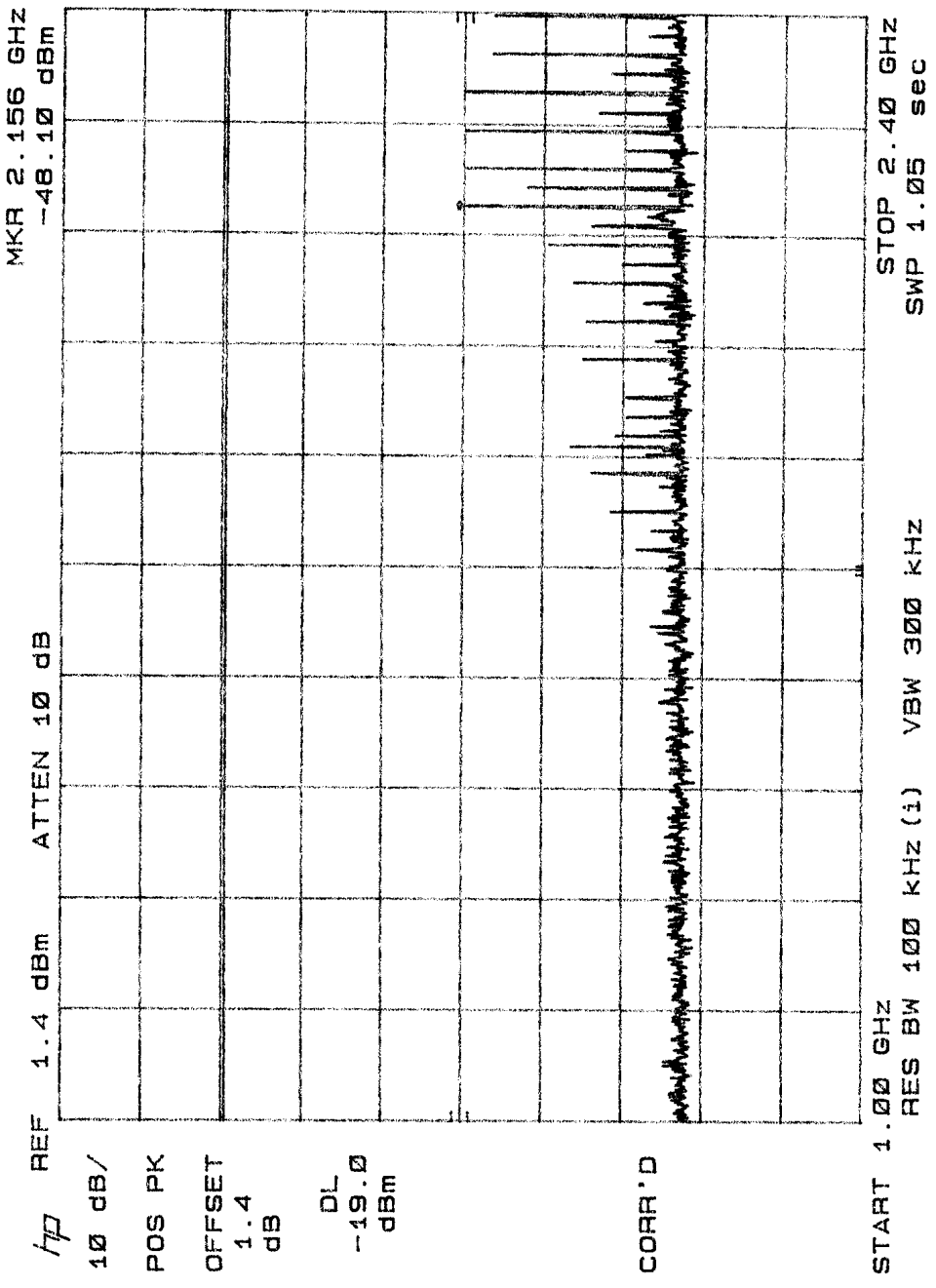


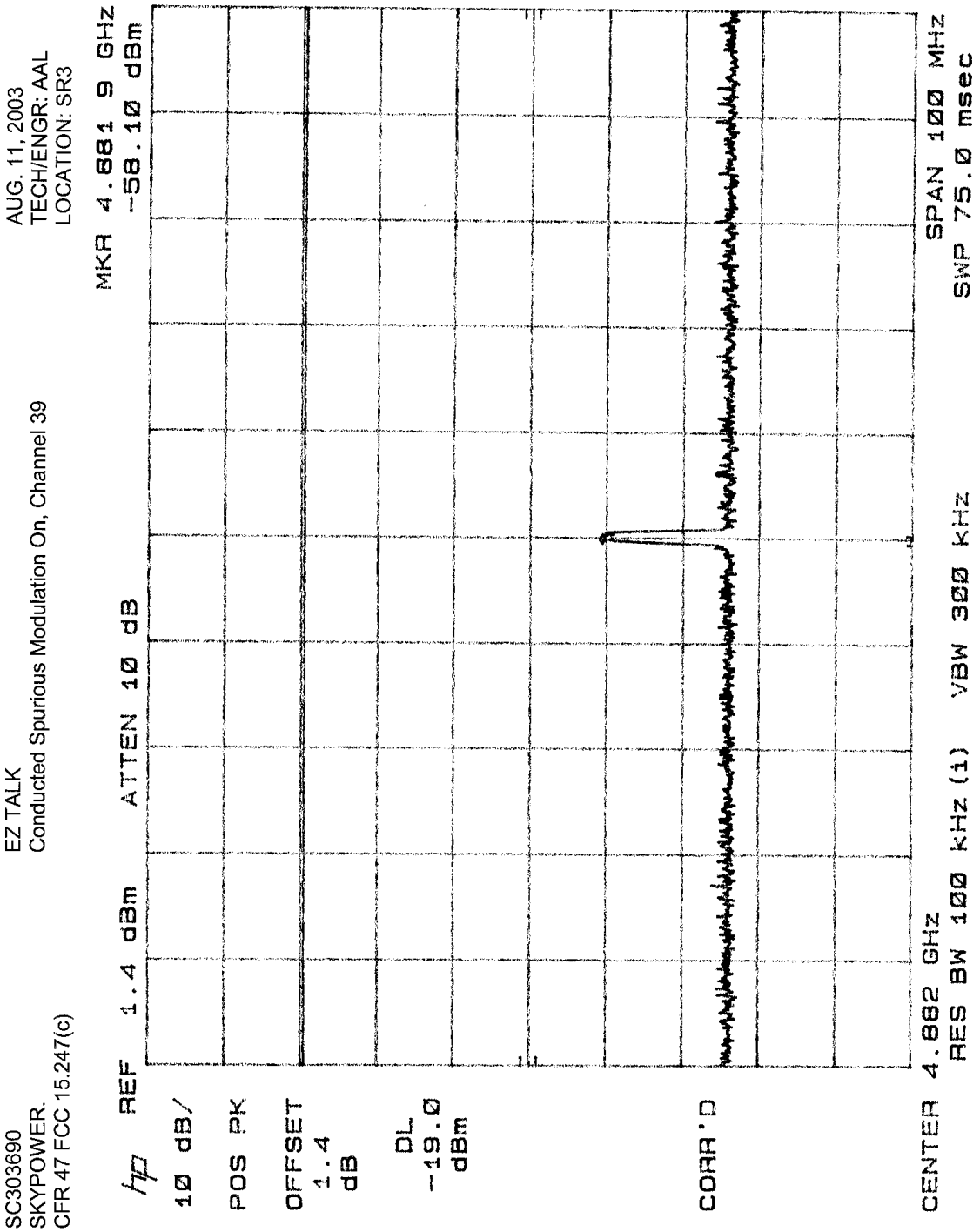

SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)
EZ TALK
Conducted Spurious Modulation On, Channel 0
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
REF 1.4 dBm
ATTEN 10 dB
MKR 7.206 6 GHz
-57.40 dBm
10 dB/
POS PK
OFFSET
1.4
dB
DL
-19.6
dBm
CORR'D
CENTER 7.202 GHz
RES BW 100 kHz (i)
VBW 300 kHz
SPAN 100 MHz
SWP 75.0 msec

SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 39

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3

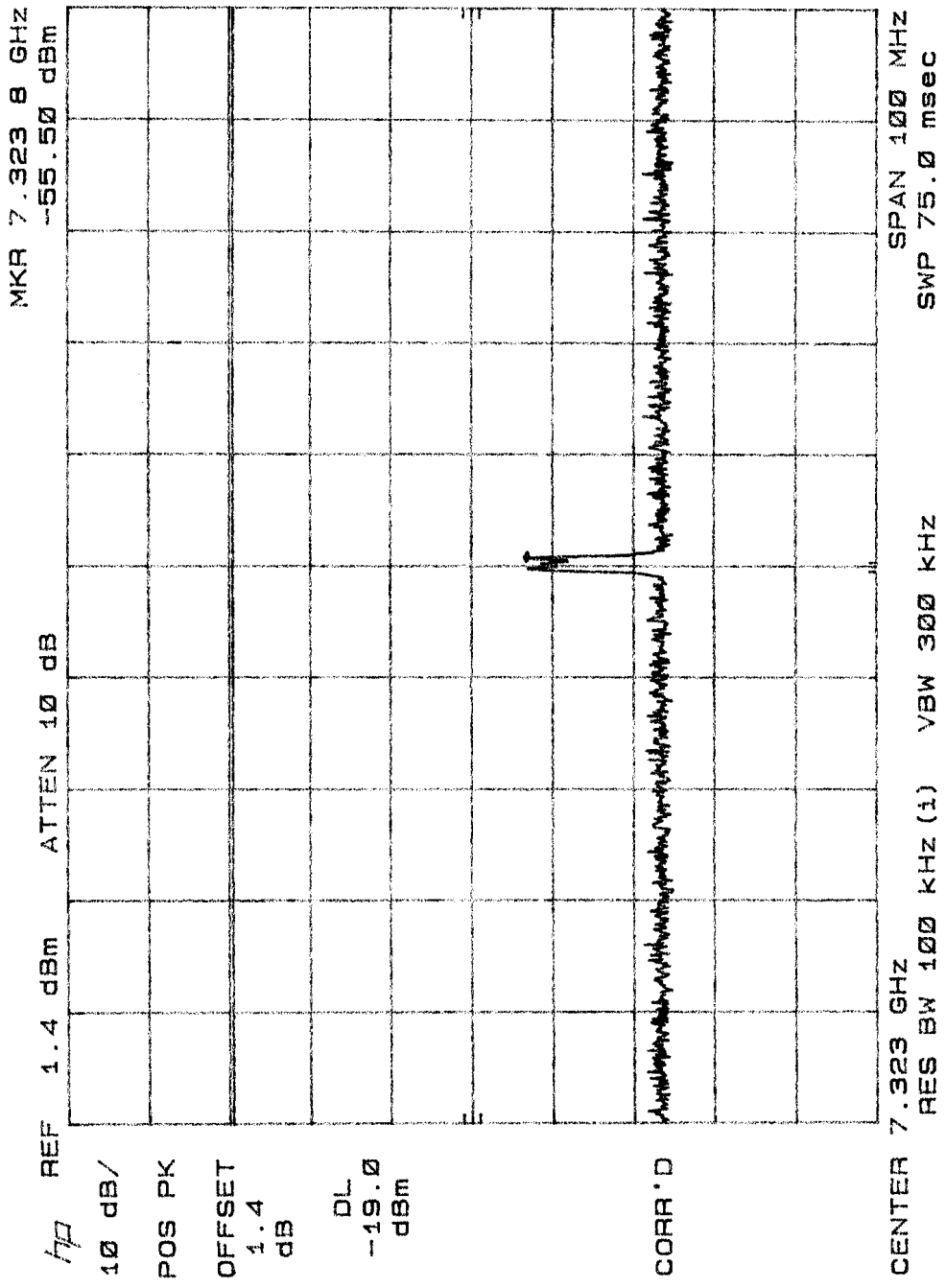



SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)
EZ TALK
Conducted Spurious Modulation On, Channel 39
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
MKR 4.881 9 GHz
-58.10 dBm
REF 1.4 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
1.4
dB
DL
-19.0
dBm
CORR'D
CENTER 4.882 GHz
RES BW 100 kHz (1)
VBW 300 kHz
SPAN 100 MHz
SWP 75.0 msec

SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 39

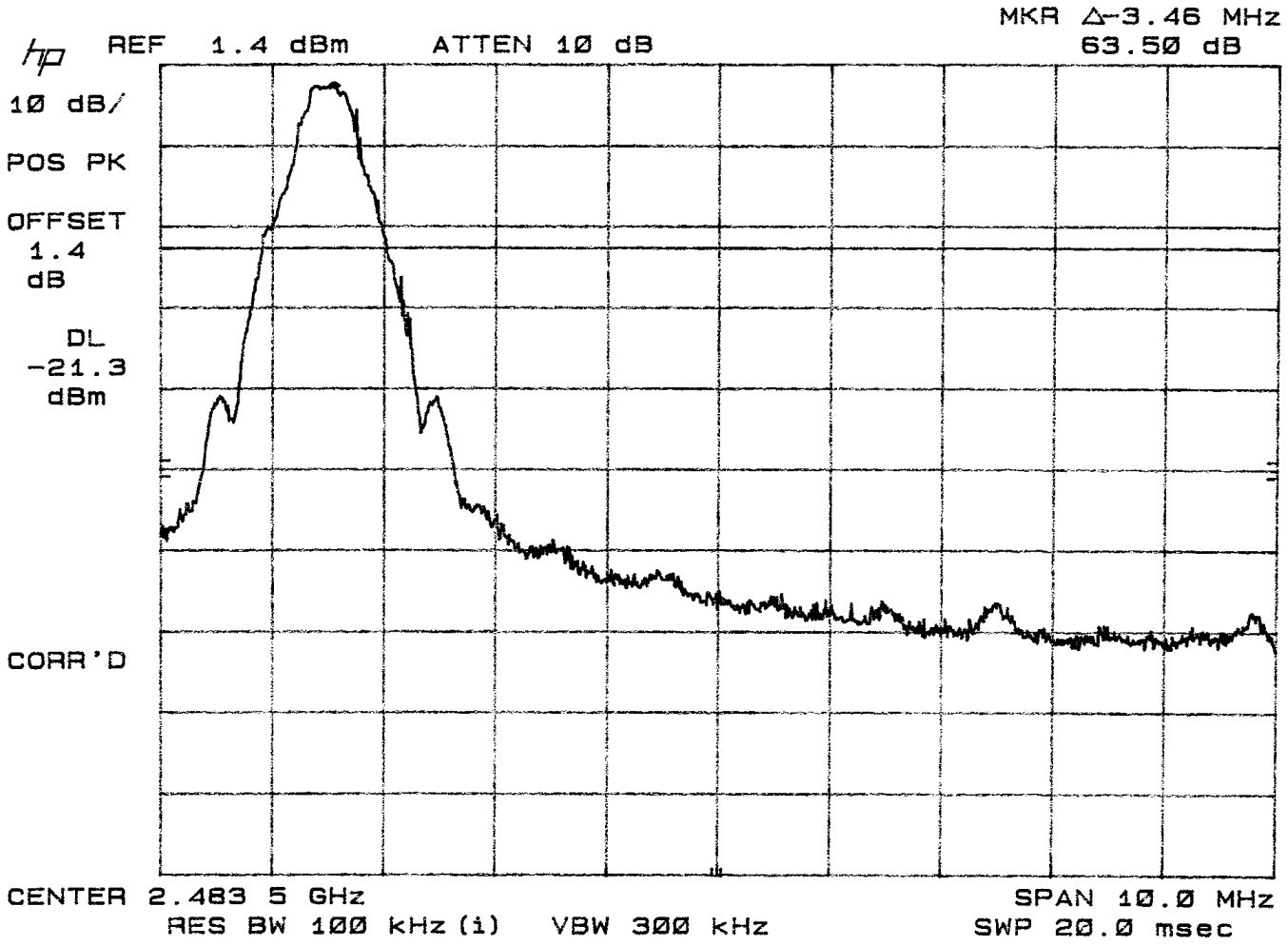
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78
BAND EDGE

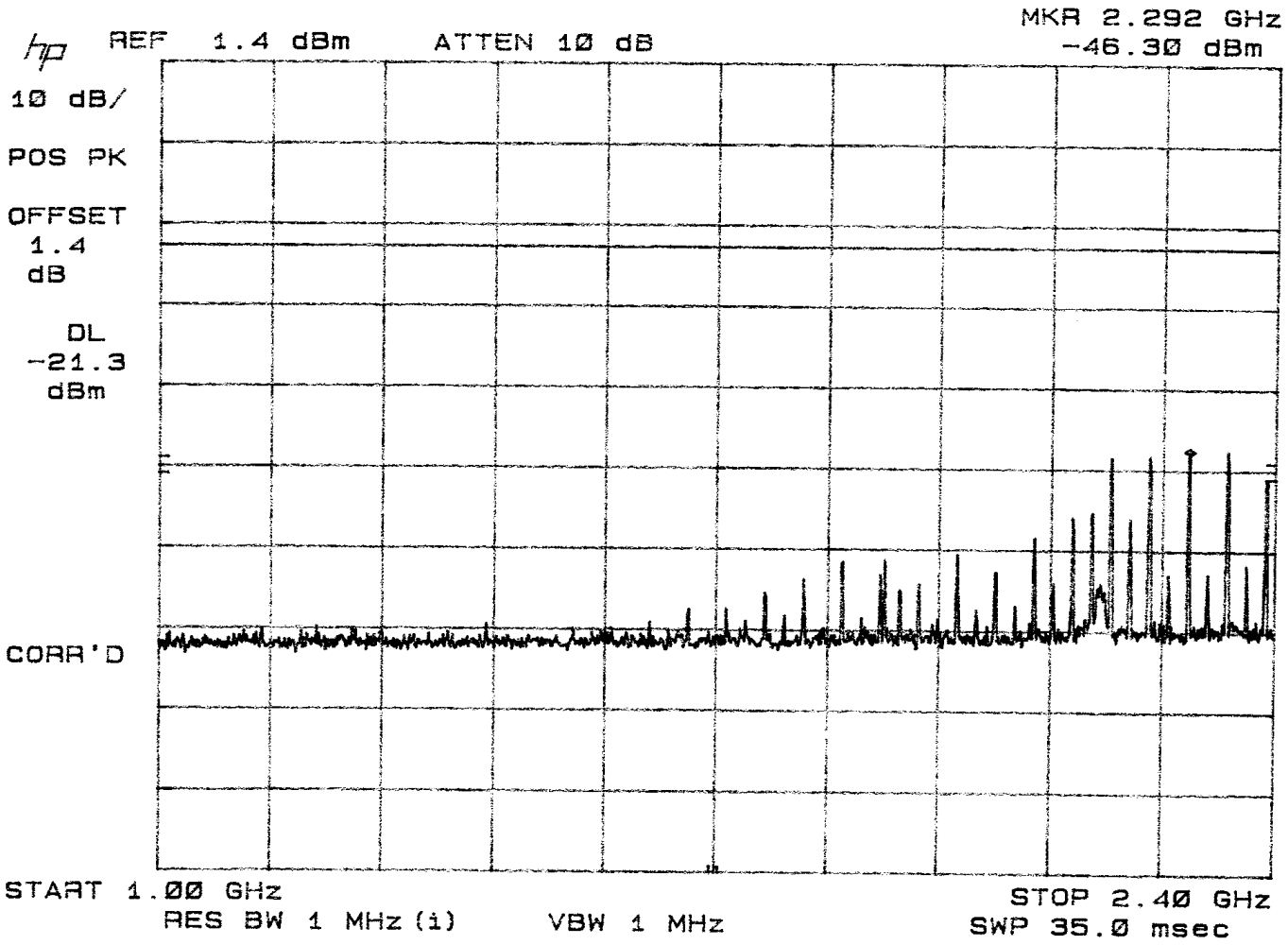
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3

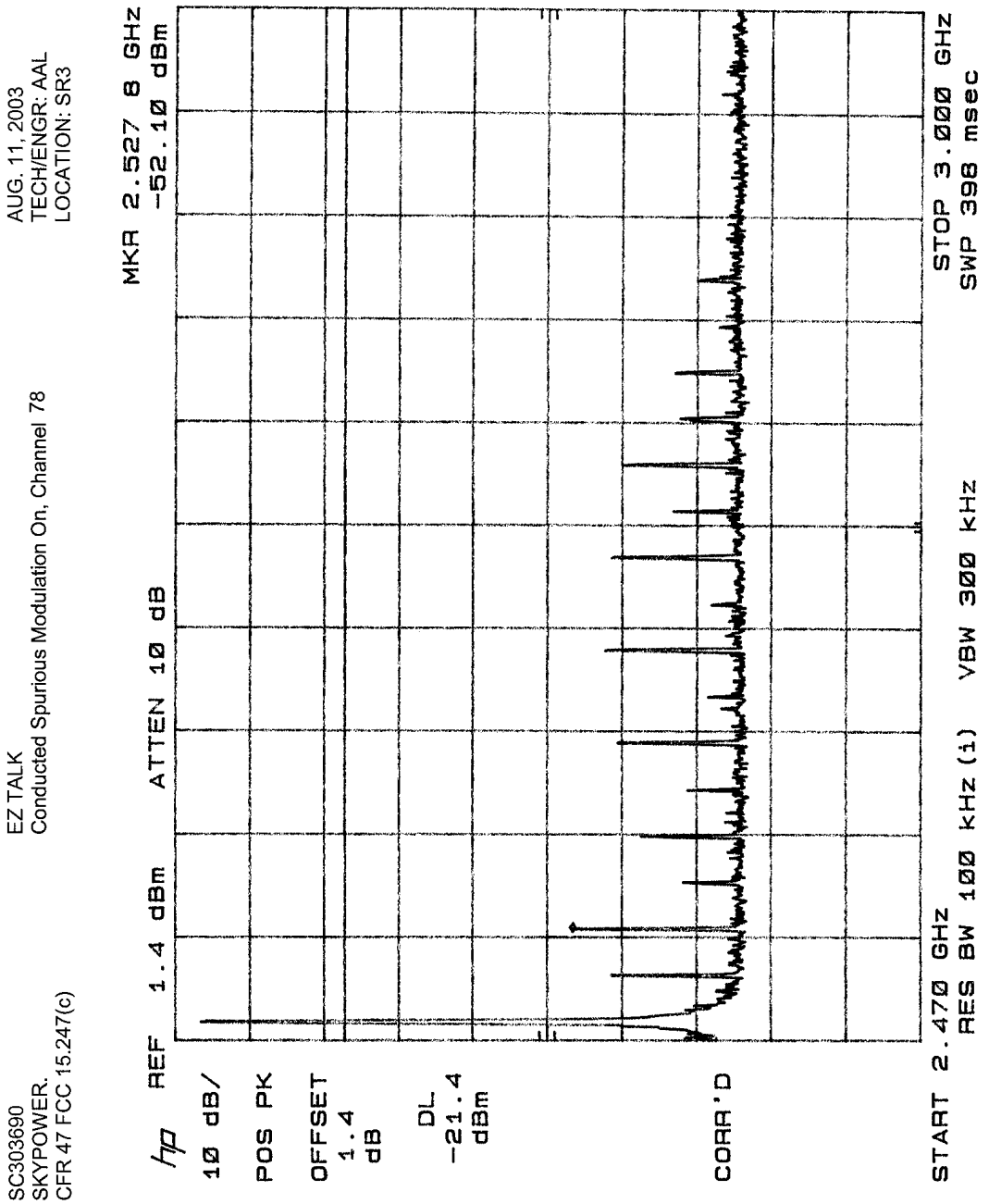


SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78

AUG. 12, 2003
TECH/ENGR: AAL
LOCATION: SR3

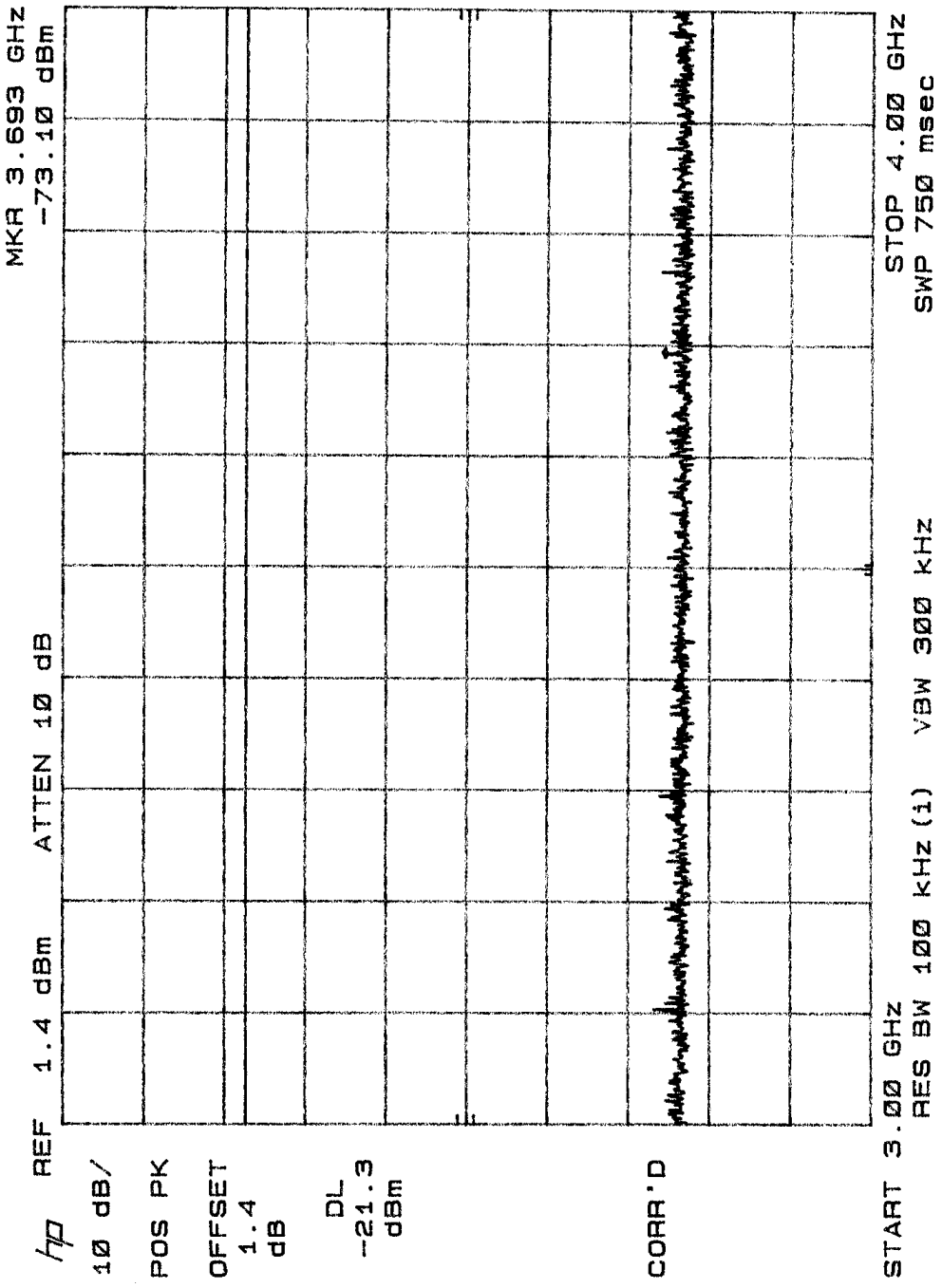



SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)
EZ TALK
Conducted Spurious Modulation On, Channel 78
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
hp
REF 1.4 dBm
ATTEN 10 dB
MKR 2.527 8 GHz
-52.10 dBm
10 dB/
POS PK
OFFSET
1.4
dB
DL
-21.4
dBm
CORR'D
START 2.470 GHz
RES BW 100 kHz (i)
VBW 300 kHz
STOP 3.000 GHz
SWP 398 msec

SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78

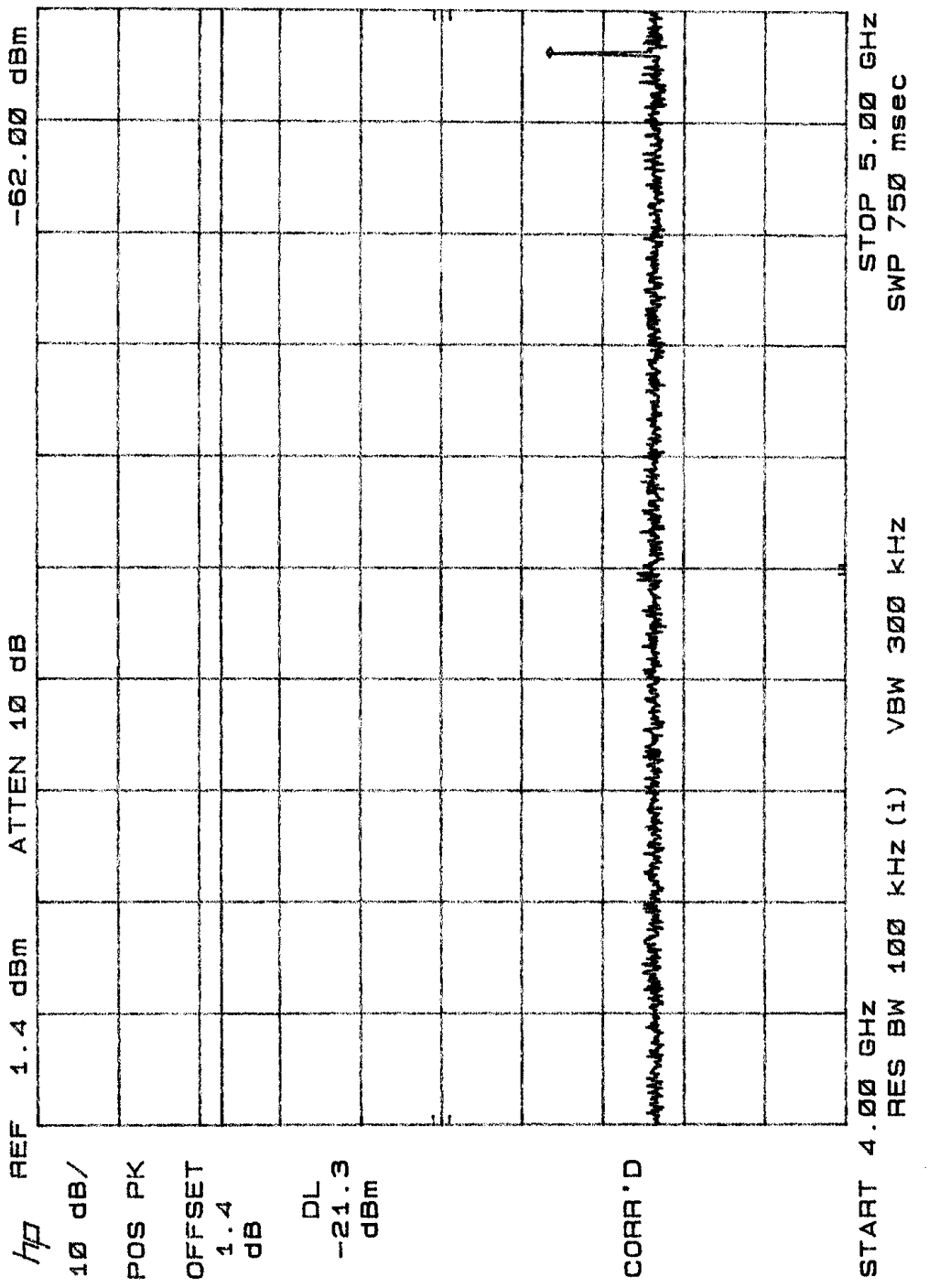
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78

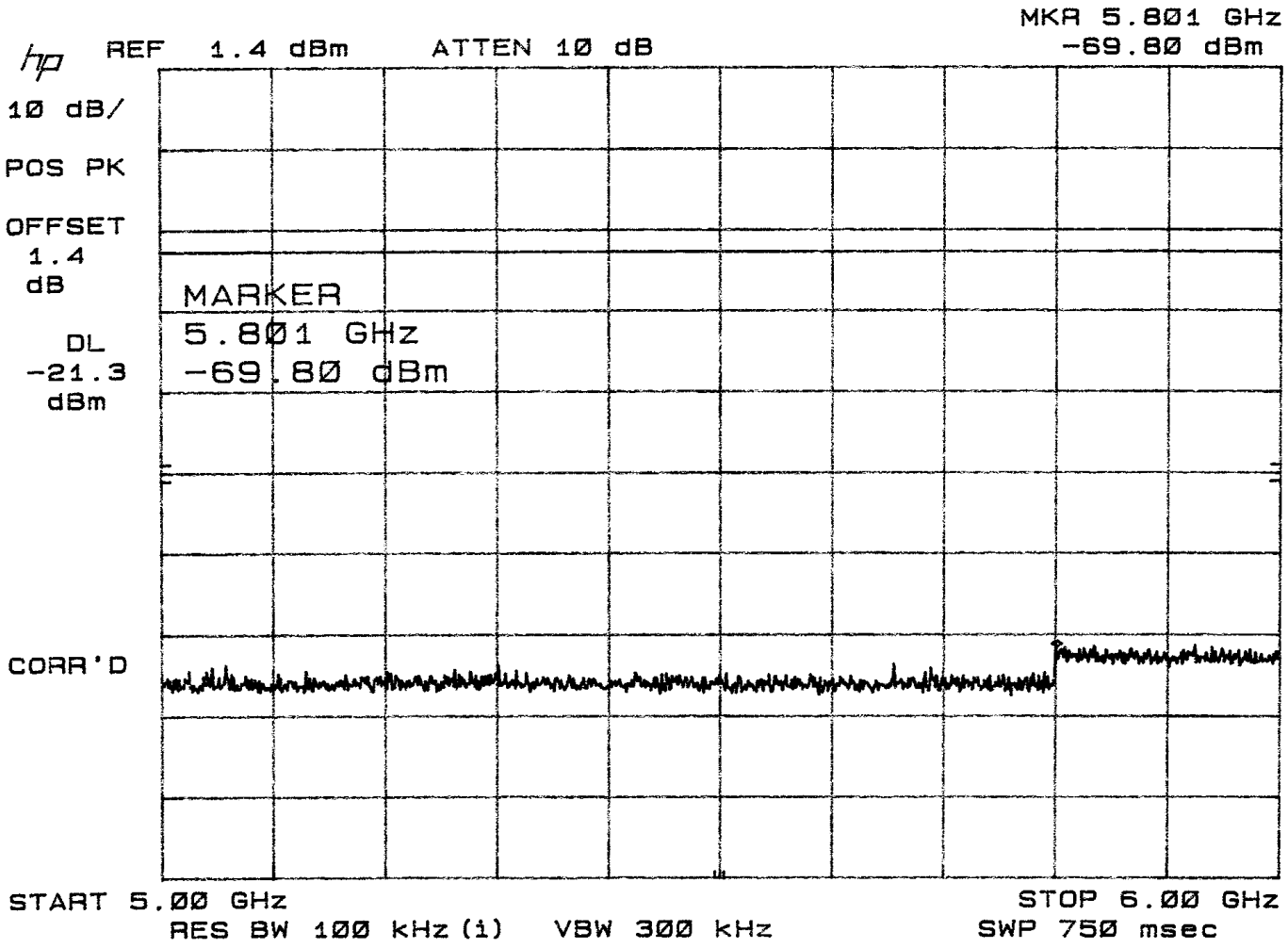
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78

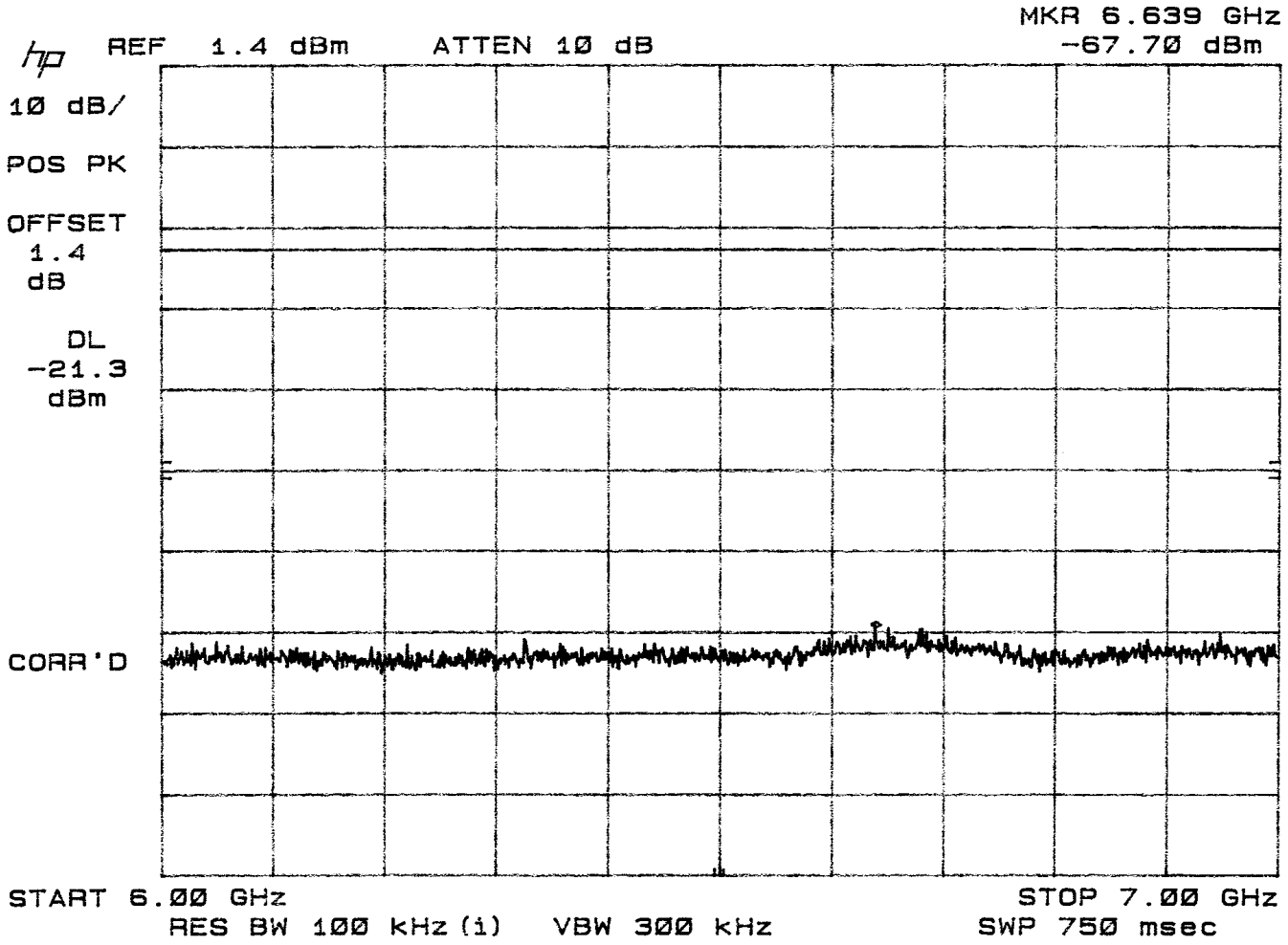
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78

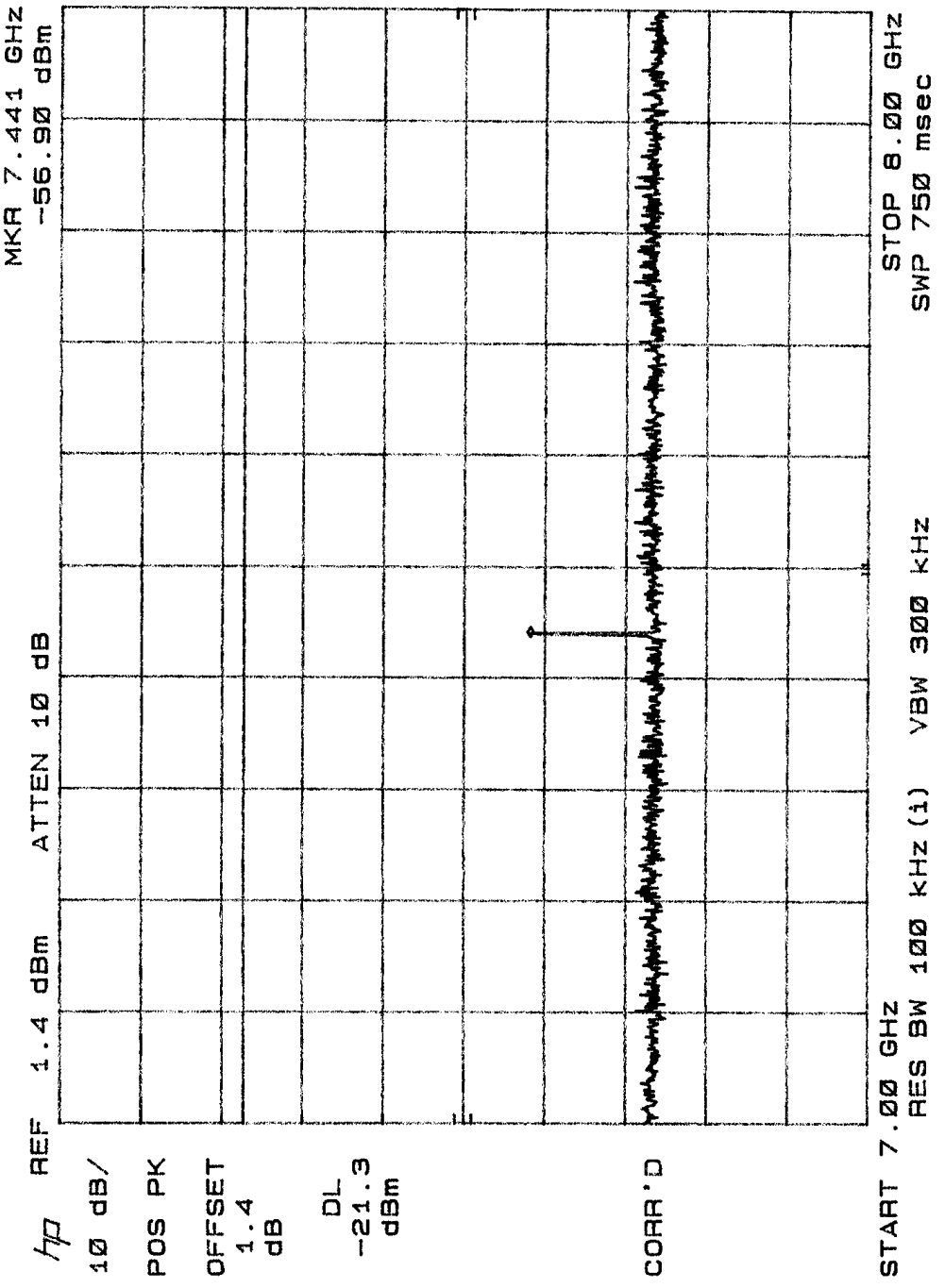
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3

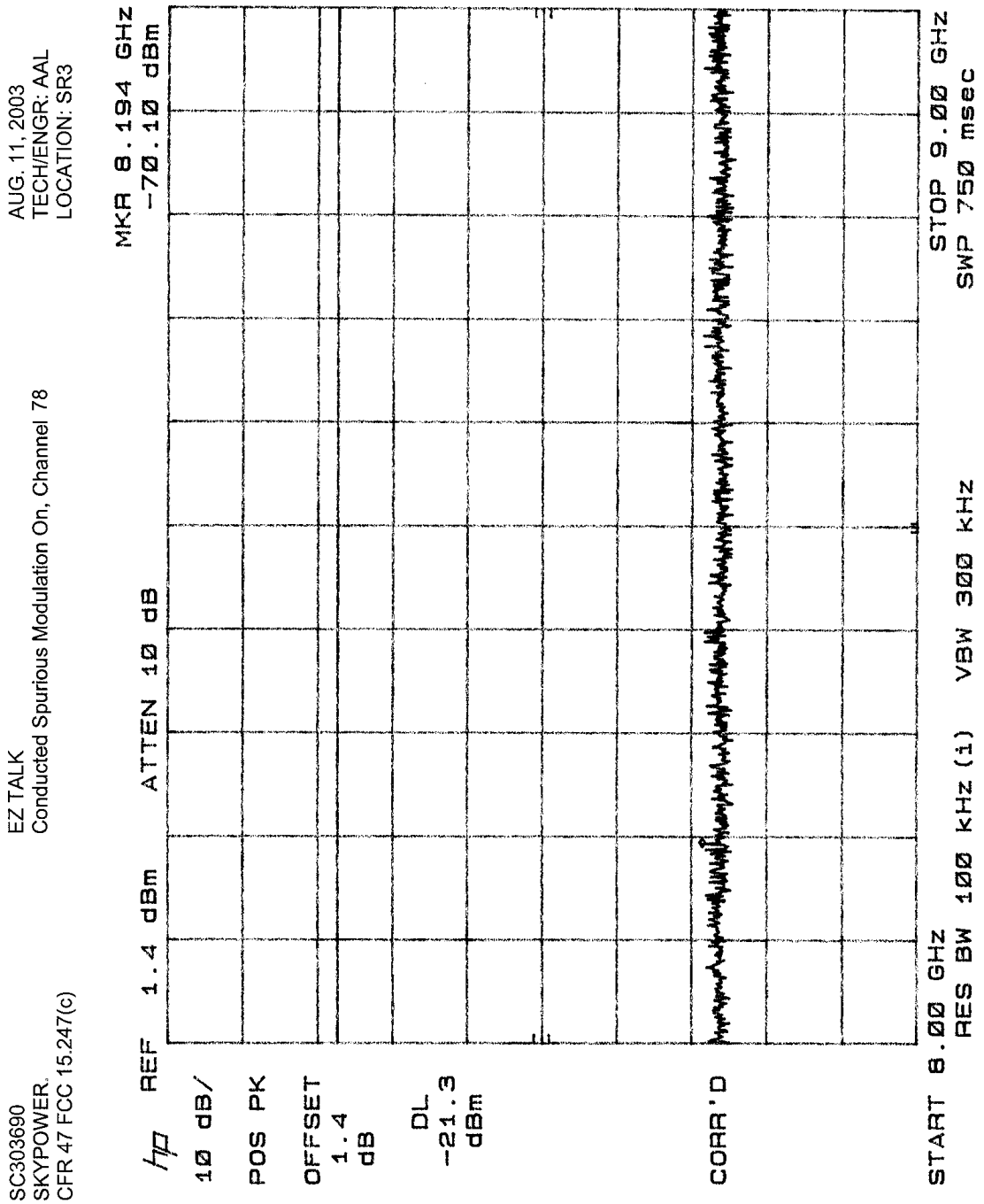


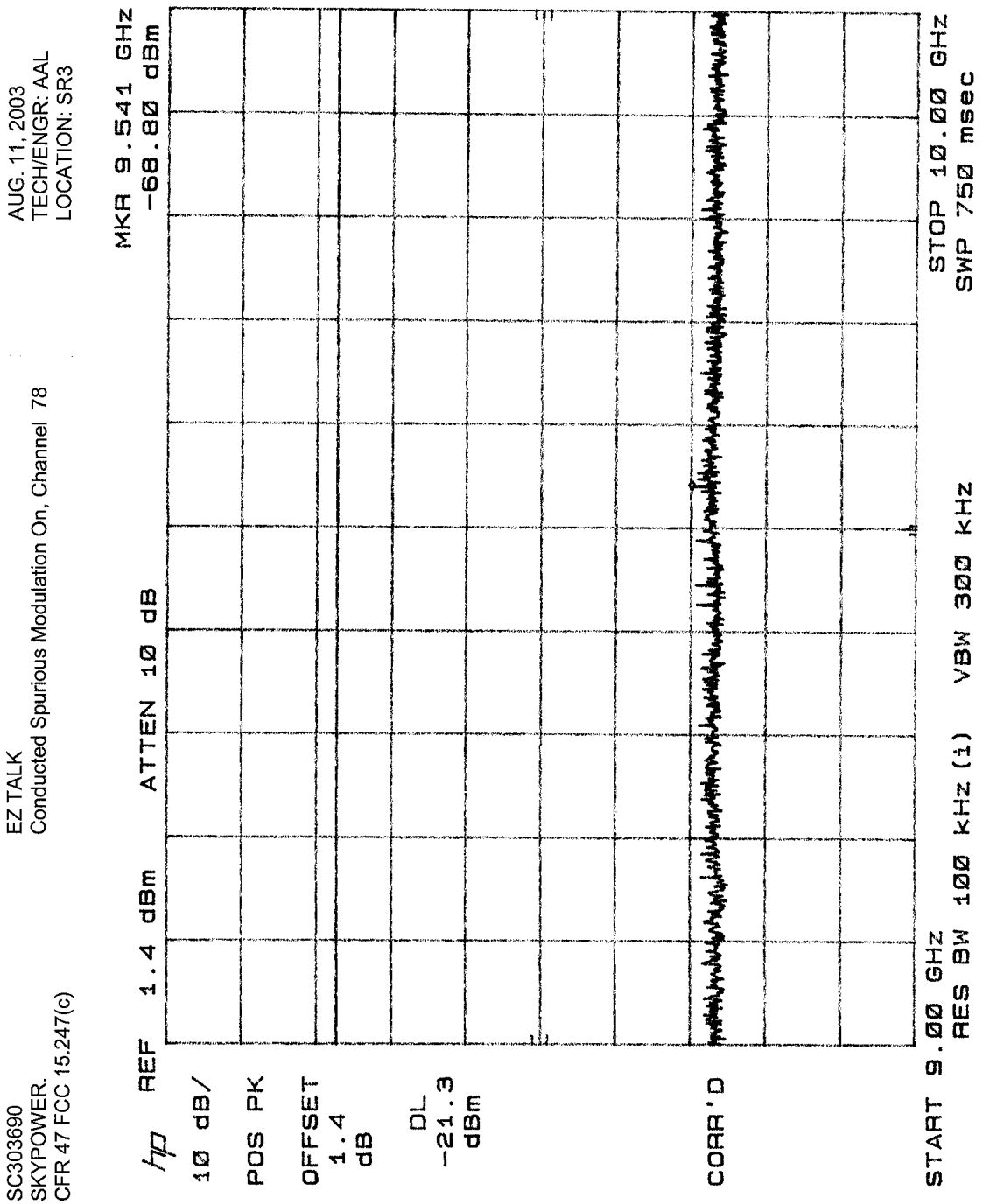
SC303690
SKYPOWER
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78

AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3



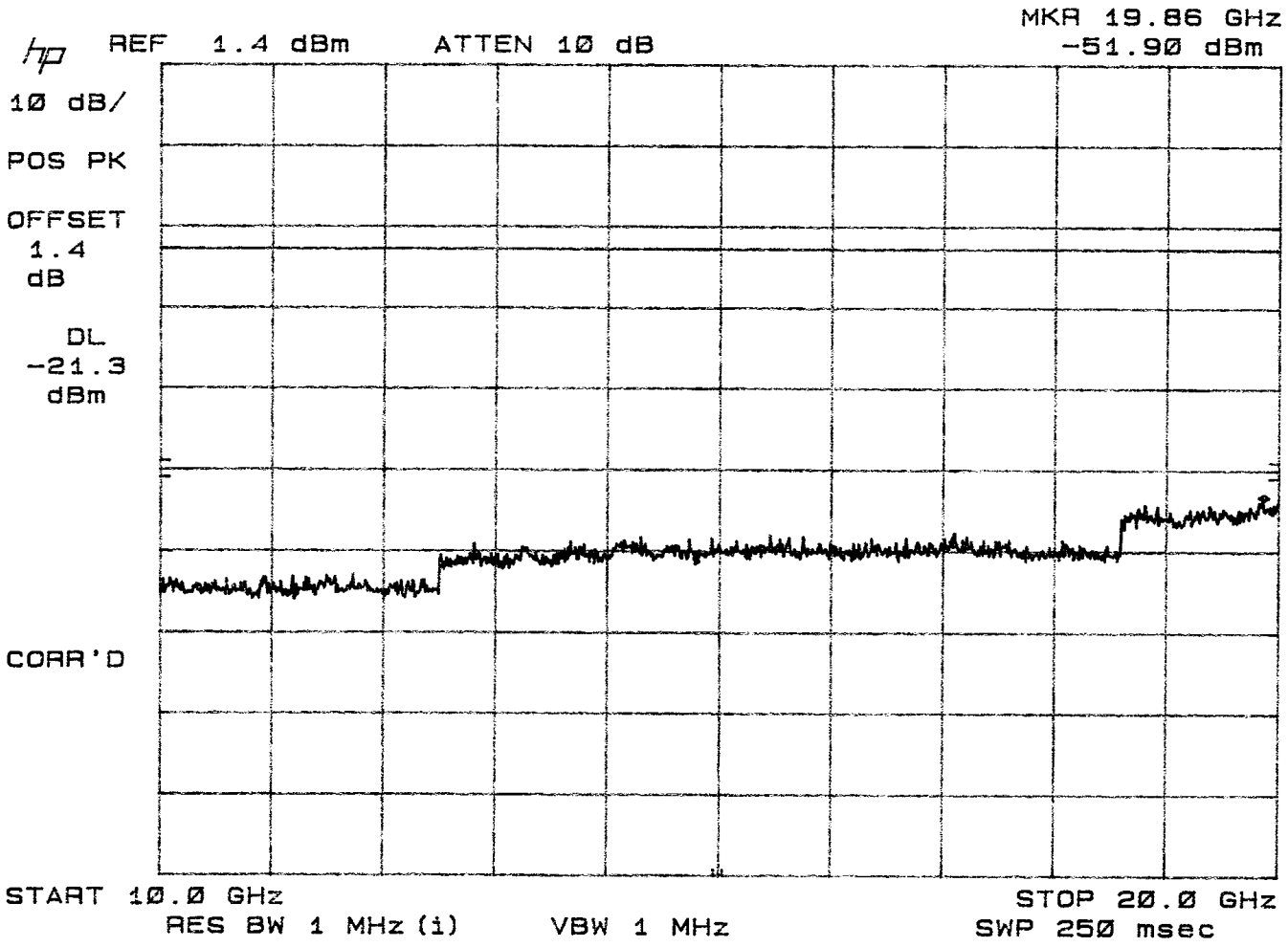

SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)
EZ TALK
Conducted Spurious Modulation On, Channel 78
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
MKR 8.194 GHz
-70.10 dBm
REF 1.4 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
1.4
dB
DL
-21.3
dBm
CORR'D
START 8.00 GHz
RES BW 100 kHz (i)
VBW 300 kHz
STOP 9.00 GHz
SWP 750 msec


SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)
EZ TALK
Conducted Spurious Modulation On, Channel 78
AUG. 11, 2003
TECH/ENGR: AAL
LOCATION: SR3
MKR 9.541 GHz
-68.80 dBm
REF 1.4 dBm
ATTEN 10 dB
10 dB/
POS PK
OFFSET
1.4
dB
DL
-21.3
dBm
CORR'D
START 9.00 GHz
RES BW 100 kHz (i)
VBW 300 kHz
STOP 10.00 GHz
SWP 750 msec

SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78

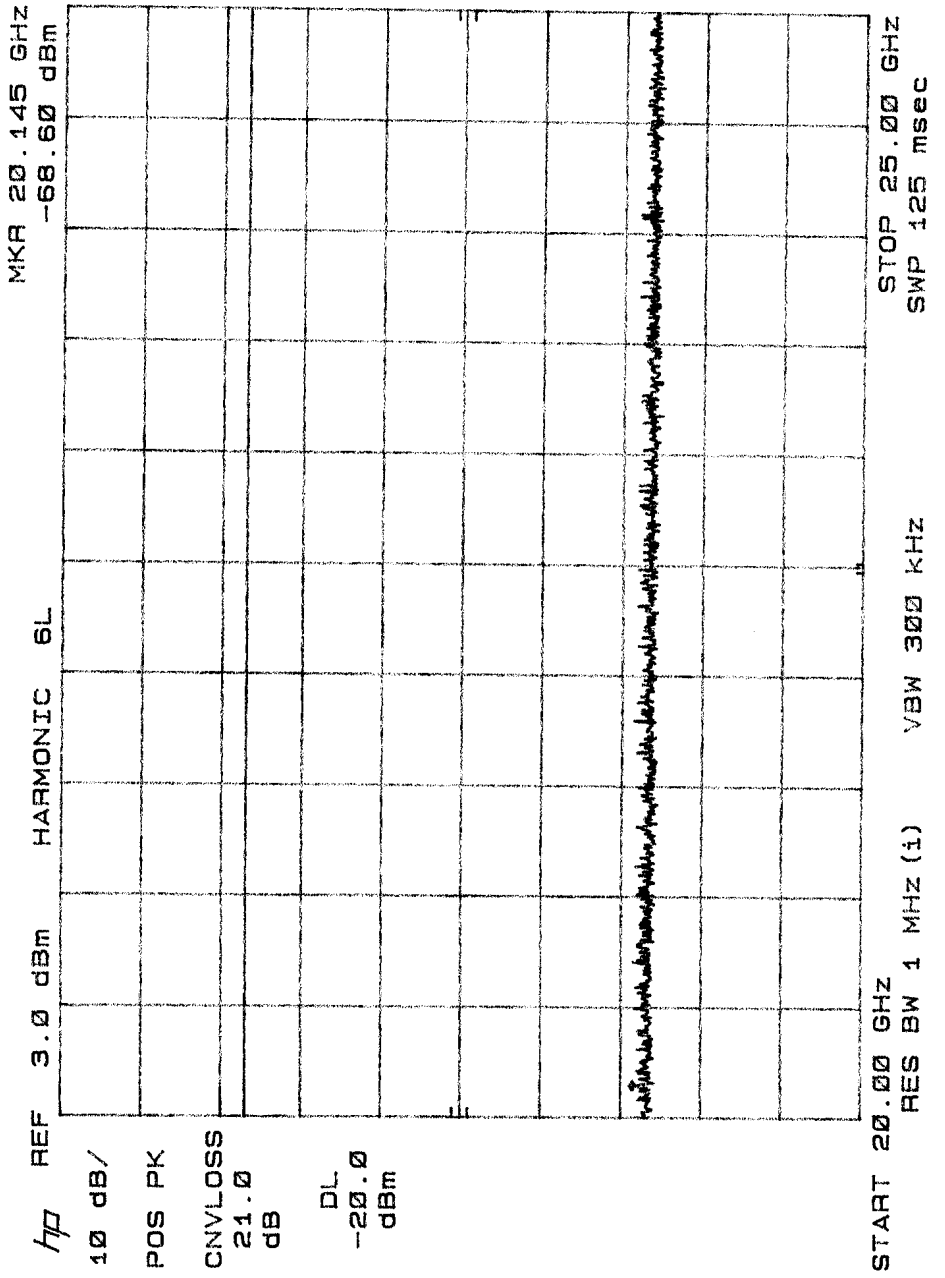
AUG. 12, 2003
TECH/ENGR: AAL
LOCATION: SR3



SC303690
SKYPOWER.
CFR 47 FCC 15.247(c)

EZ TALK
Conducted Spurious Modulation On, Channel 78

AUG. 12, 2003
TECH/ENGR: AAL
LOCATION: SR3



REPORT No: SC303690 TESTER: Alan Laudani SPEC: FCC Part 15 para 15.209(a)

CUSTOMER: Skypower TEST DIST: 3 Meters

E U T: EZ TALK TEST SITE: Roof

EUT MODE: Transmit 3 frequencies BICONICAL: N/A

DATE: Aug. 12, 2003 LOG: N/A

NOTES: OTHER: 251

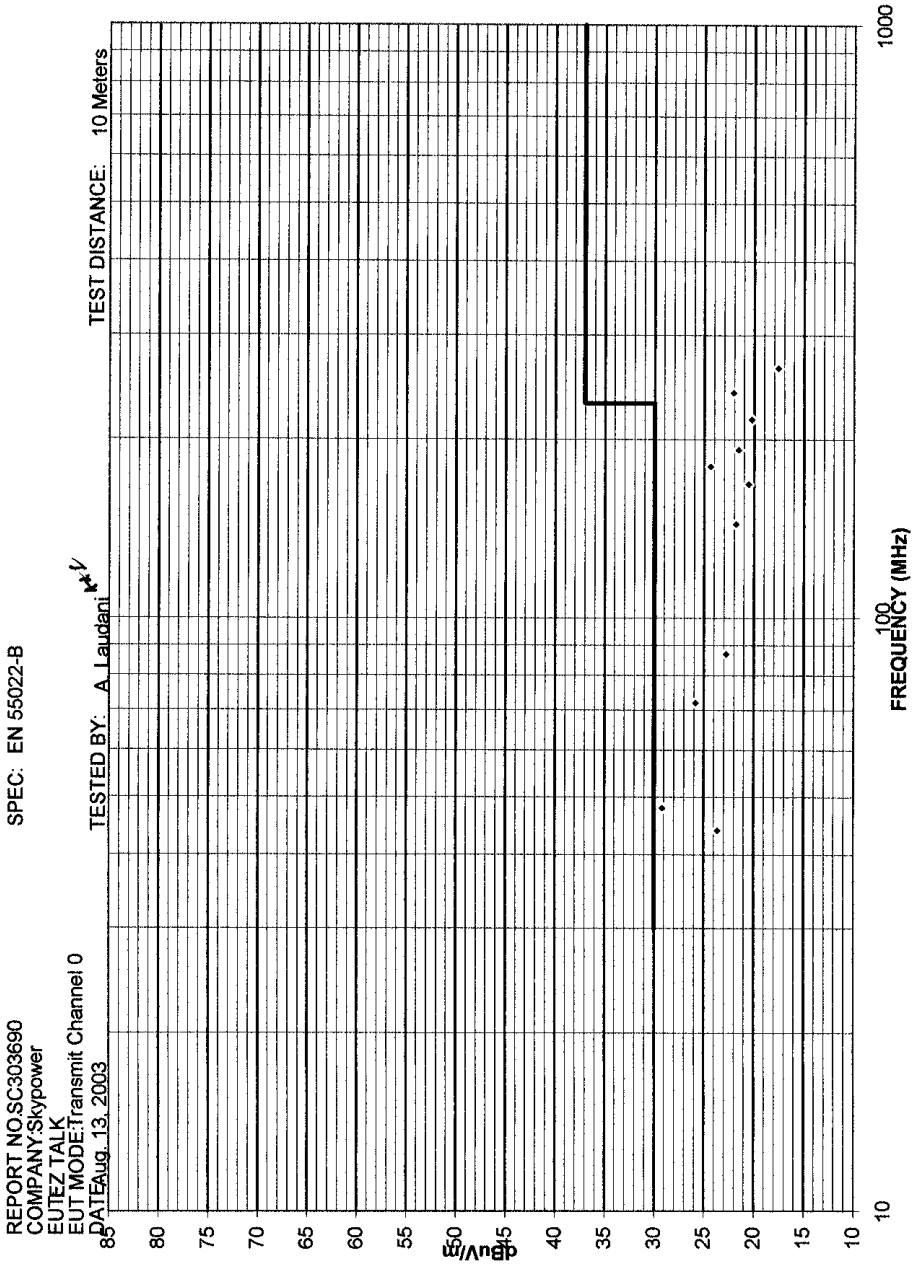
above 1GHz: RBW & VBW 100 kHz for Pk; RBW 1MHz and VBW 10Hz for AVG

CF = Antenna Factor + Cable Loss - Preamplifier Gain + Preselector Loss

v.beta1a

FREQ (MHz)	VERTICAL (dBuv) pk	VERTICAL (dBuv) av	HORIZONTAL (dBuv) pk	HORIZONTAL (dBuv) av	CF (dB/m)	MAX LEVEL (dBuV/m) pk	MAX LEVEL (dBuV/m) av	SPEC LIMIT (dBuV/m) pk	SPEC LIMIT (dBuV/m) av	MARGIN (dB) pk	MARGIN (dB) av	EUT Rotation	Antenna Height	Notes
														Transmit Channel 0
2400	39.2	26.3	40.4	27.7	0.90	**41.3**	**28.6**	74	54	-32.7	-25.4	160	1	
4804	44.2	36.8	44.6	34.3	6.02	**50.6**	**42.8**	74	54	-23.4	-11.2	0	1	
7206	42.5	32.0	41.6	31.1	15.12	**57.6**	**47.1**	74	54	-16.4	-6.9		1	noise floor
9608	33.4	21.9	34.3	22.2	18.28	**52.6**	**40.5**	74	54	-21.4	-13.5		1	noise floor
12010	35.1	23.5	36.5	23.5	21.42	**57.9**	**44.9**	74	54	-16.1	-9.1		1	noise floor
														Transmit Channel 39
4882	41	29.8	37.3	25.4	6.41	**47.4**	**36.2**	74	54	-26.6	-17.8	6	1.5	
7323	32.2	20.5	31.6	20.7	15.47	**47.7**	**36.2**	74	54	-26.3	-17.8		1	noise floor
9764	35.3	22.8	35.0	22.9	18.69	**54.0**	**41.6**	74	54	-20.0	-12.4		1	noise floor
12205	35.1	23.5	34.9	23.5	21.89	**57.0**	**45.4**	74	54	-17.0	-8.6		1	noise floor
														Transmit Channel 78
2483.5	35.0	24.2	36.2	24.3	1.15	**37.35**	**25.5**	74	54	-36.6	-28.5			
4960	35.6	24.5	36.0	24.0	6.80	**42.8**	**31.3**	74	54	-31.2	-22.7		1	noise floor
7401	32.2	20.5	32.1	20.6	15.70	**47.9**	**36.3**	74	54	-26.1	-17.7		1	noise floor
9842	34.6	23.4	34.6	23.5	18.89	**53.5**	**42.4**	74	54	-20.5	-11.6		1	noise floor
12283	34.8	23.4	35.8	23.3	22.08	**57.9**	**45.5**	74	54	-16.1	-8.5		1	noise floor
														Receive
1032	34.9	26.8	38.8	26.8	-12.95	**25.85**	**13.8**	74	54	-48.15	-40.15	262	1	
1057.5	38.7	26.7	39.5	26.9	-12.75	**26.75**	**14.1**	74	54	-47.25	-39.85		1	noise floor
1091	31	27.9	32.6	26.9	-12.49	**20.11**	**15.4**	74	54	-53.89	-38.59		1	noise floor
1124	37.5	26.6	34.2	26.5	-12.23	**25.27**	**14.4**	74	54	-48.73	-39.63		1	noise floor

Transmit & Receive


REPORT NO.SC303690
COMPANY:Skypower
EUTEZ TALK
EUT MODE:Transmit Channel 0
DATE:Aug. 13, 2003
SPEC: EN 55022-B
TESTED BY: A. Laudani
TEST DISTANCE: 10 Meters
dBuV/m
FREQUENCY (MHz)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
10
100
1000

REPORT No: SC303690 SPEC: EN 55022-B

CUSTOMER: Skypower TEST DIST: 10 Meters

E U T: EZ TALK TEST SITE: 2

EUT MODE: Transmit Channel 0 BICONICAL: 739

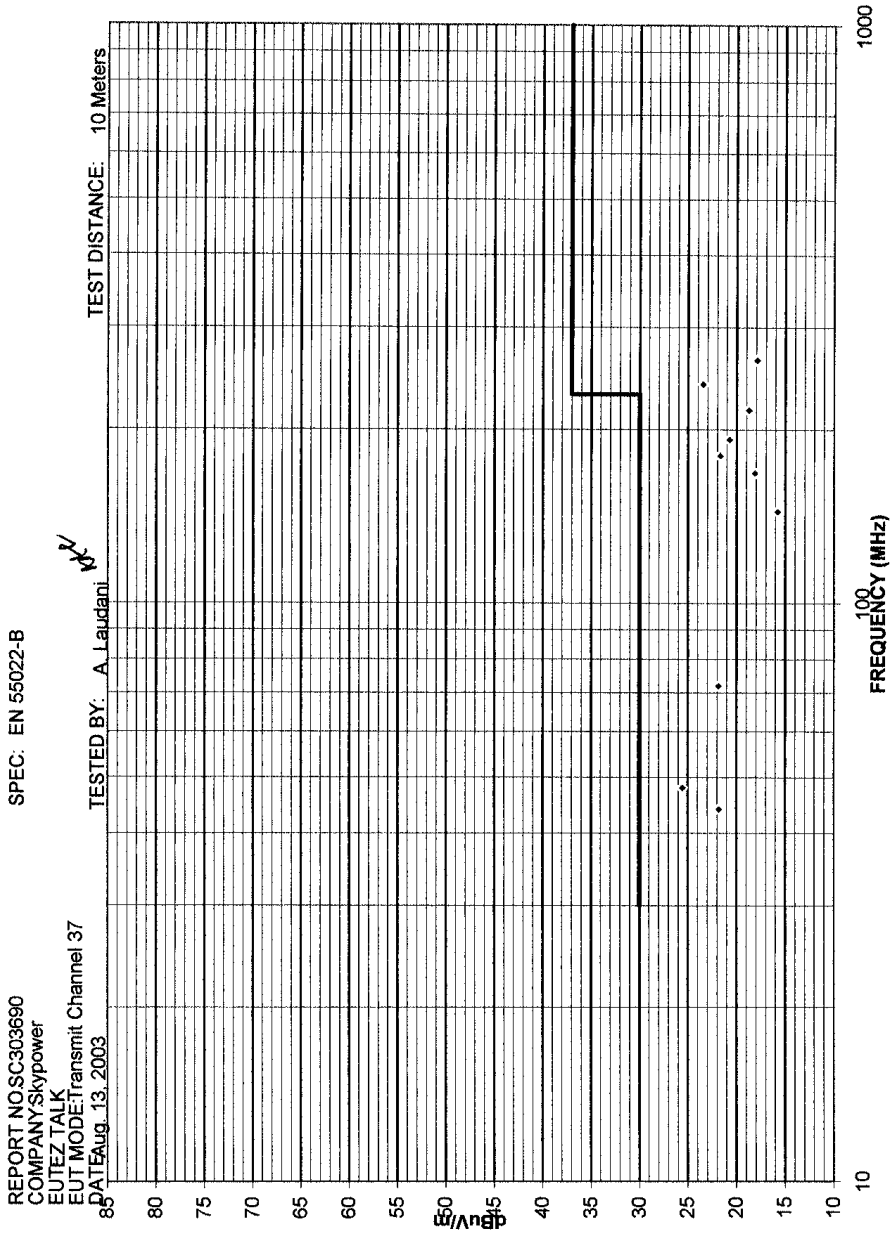
DATE: Aug. 13, 200 TESTED BY: A. Laudani LOG PERIODIC: 739

NOTES: Quasi-Peak with 120 KHz measurement bandwidth. RCVR: 6732
3.7 Vdc

Temperature: 28°C Relative Humidity: 45%

EUT MARGIN -0.8 dB at 48 MHz ver 1.8b

FREQUENCY (MHz)	VERTICAL measured (dBuv)	HORIZONTAL measured (dBuV)	CORRECTION FACTOR (dB/m)	MAXIMUM CORRECTED (dBuV/m)	SPECIFIED LIMIT (dBuV/m)	EUT MARGIN (dB)	EUT ROTATION (degrees)	ANTENNA HEIGHT (meters)
44.00	5.2	-1.7	18.4	**23.6**	30	-6.4	30	1
48.00	11.4	0.3	17.8	**29.2**	30	-0.8	90	1
72.00	16	6.8	9.9	**25.9**	30	-4.1	180	1
87.00	12	0.7	10.8	**22.8**	30	-7.2	80	1
144.00	10.1	6.2	11.7	**21.8**	30	-8.2	0	1
168.00	8.5	0.2	12.1	**20.6**	30	-9.4	60	1
180.00	11.6	3.5	12.8	**24.4**	30	-5.6	40	1
192.00	8.3	8	13.3	**21.6**	30	-8.4	60	1
216.00	5.7	4.1	14.6	**20.3**	30	-9.7	120	1
240.00	5.7	5.8	16.3	**22.1**	37	-14.9	300	1
264.00	0.7	-0.8	16.9	**17.6**	37	-19.4	300	1


REPORT NO:SC303690
COMPANY:Skypower
EUT:EZ TALK
EUT MODE:Transmit Channel 37
DATE:Aug. 13, 2003
SPEC: EN 55022-B
TESTED BY: A. Laudani
TEST DISTANCE: 10 Meters
dBuV/m
FREQUENCY (MHz)
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10
10
100
1000

REPORT No: SC303690 SPEC: EN 55022-B

CUSTOMER: Skypower TEST DIST: 10 Meters

E U T: EZ TALK TEST SITE: 2

EUT MODE: Transmit Channel 37 BICONICAL: 739

DATE: Aug. 13, 2003 TESTED BY: A. Laudani LOG PERIODIC: 739

NOTES: Quasi-Peak with 120 KHz measurement bandwidth. RCVR: 6732

3.7 Vdc

Temperature: 28°C Relative Humidity: 45%

EUT MARGIN -4.4 dB at 48 MHz ver 1.8b

FREQUENCY (MHz)	VERTICAL measured (dBuv)	HORIZONTAL measured (dBuV)	CORRECTION FACTOR (dB/m)	MAXIMUM CORRECTED (dBuV/m)	SPECIFIED LIMIT (dBuV/m)	EUT MARGIN (dB)	EUT ROTATION (degrees)	ANTENNA HEIGHT (meters)
44.00	3.4	-1.9	18.4	**21.8**	30	-8.2	30	1
48.00	7.8	0.7	17.8	**25.6**	30	-4.4	90	1
72.00	12	8.3	9.9	**21.9**	30	-8.1	180	2
144.00	4.1	3.6	11.7	**15.8**	30	-14.2	0	1
168.00	6.1	0.3	12.1	**18.2**	30	-11.8	60	1
180.00	8.9	2.2	12.8	**21.7**	30	-8.3	40	1
192.00	7.5	6.1	13.3	**20.8**	30	-9.2	60	3
216.00	4.2	2.1	14.6	**18.8**	30	-11.2	120	1
240.00	7.2	3.6	16.3	**23.5**	37	-13.5	300	1
264.00	1	-0.3	16.9	**17.9**	37	-19.1	300	1

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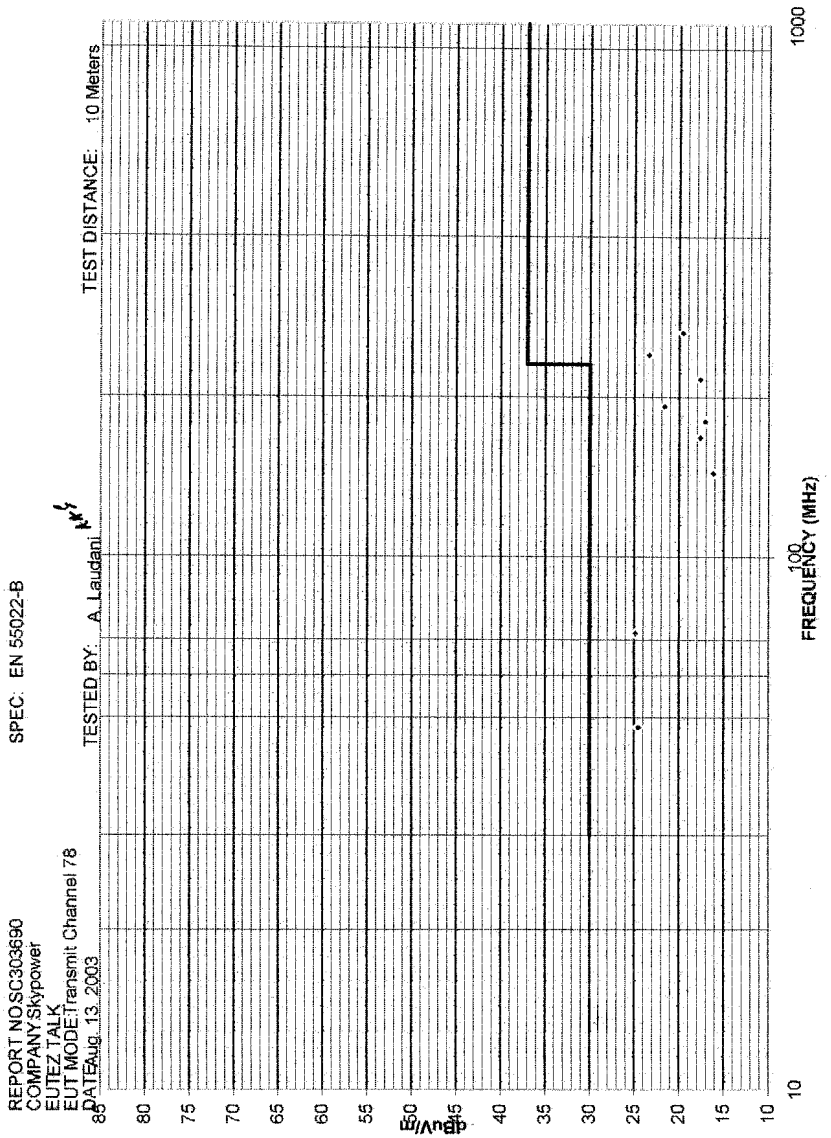
REPORT NO.SC303690
COMPANY:Skypower
EUTEZ TALK
EUT MODE:Transmit Channel 78
DATE:Aug. 13, 2003
SPEC: EN 55022-B
TESTED BY: A.Laudani
TEST DISTANCE: 10 Meters
dBuV/m
FREQUENCY (MHz)
10
100
1000
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
10

REPORT No: SC303690 SPEC: EN 55022-B

CUSTOMER: Skypower TEST DIST: 10 Meters

E U T: EZ TALK TEST SITE: 2

EUT MODE: Transmit Channel 78 BICONICAL: 739

DATE: Aug. 13, 2003 TESTED BY: A. Laudani LOG PERIODIC: 739

NOTES: Quasi-Peak with 120 KHz measurement bandwidth. RCVR: 6732

3.7 Vdc

Temperature: 28°C Relative Humidity: 45%

EUT MARGIN -5.1 dB at 72 MHz ver 1.8b

FREQUENCY (MHz)	VERTICAL measured (dBuv)	HORIZONTAL measured (dBuV)	CORRECTION FACTOR (dB/m)	MAXIMUM CORRECTED (dBuV/m)	SPECIFIED LIMIT (dBuV/m)	EUT MARGIN (dB)	EUT ROTATION (degrees)	ANTENNA HEIGHT (meters)
48.00	6.8	-0.9	17.8	**24.6**	30	-5.4	90	1
72.00	15	7.9	9.9	**24.9**	30	-5.1	180	2
144.00	4.5	3.2	11.7	**16.2**	30	-13.8	0	1
168.00	5.6	2.7	12.1	**17.7**	30	-12.3	60	1
180.00	4.3	3.3	12.8	**17.1**	30	-12.9	40	1
192.00	6.2	8.4	13.3	**21.7**	30	-8.3	60	3
216.00	3.1	2.6	14.6	**17.7**	30	-12.3	120	1
240.00	7.1	3.6	16.3	**23.4**	37	-13.6	300	1
264.00	1.3	2.7	16.9	**19.6**	37	-17.4	300	1

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REPORT No: SC303690 TESTER: Alan Laudani SPEC: FCC Part 15 para 15.209(a)

CUSTOMER: Skypower TEST DIST: 3 Meters

E U T: EZ TALK TEST SITE: Roof

EUT MODE: Transmit 3 frequencies BICONICAL: N/A

DATE: Aug. 12, 2003 LOG: N/A

NOTES: OTHER: 251

above 1GHz: RBW & VBW 100 kHz for Pk; RBW 1MHz and VBW 10Hz for AVG

CF = Antenna Factor + Cable Loss - Preamplifier Gain + Preselector Loss

v.beta1a

FREQ (MHz)	VERTICAL (dBuv) pk	av	HORIZONTAL (dBuv) pk	av	CF (dB/m)	MAX LEVEL (dBuV/m) pk	av	SPEC LIMIT (dBuV/m) pk	av	MARGIN (dB) pk	av	EUT Rotation	Antenna Height	Notes
														Transmit Channel 0
2400	39.2	26.3	40.4	27.7	0.90	**41.3**	**28.6**	74	54	-32.7	-25.4	160	1	
4804	44.2	36.8	44.6	34.3	6.02	**50.6**	**42.8**	74	54	-23.4	-11.2	0	1	
7206	42.5	32.0	41.6	31.1	15.12	**57.6**	**47.1**	74	54	-16.4	-6.9		1	noise floor
9608	33.4	21.9	34.3	22.2	18.28	**52.6**	**40.5**	74	54	-21.4	-13.5		1	noise floor
12010	35.1	23.5	36.5	23.5	21.42	**57.9**	**44.9**	74	54	-16.1	-9.1		1	noise floor
														Transmit Channel 39
4882	41	29.8	37.3	25.4	6.41	**47.4**	**36.2**	74	54	-26.6	-17.8	6	1.5	
7323	32.2	20.5	31.6	20.7	15.47	**47.7**	**36.2**	74	54	-26.3	-17.8		1	noise floor
9764	35.3	22.8	35.0	22.9	18.69	**54.0**	**41.6**	74	54	-20.0	-12.4		1	noise floor
12205	35.1	23.5	34.9	23.5	21.89	**57.0**	**45.4**	74	54	-17.0	-8.6		1	noise floor
														Transmit Channel 78
2483.5	35.0	24.2	36.2	24.3	1.15	**37.35**	**25.5**	74	54	-36.6	-28.5			
4960	35.6	24.5	36.0	24.0	6.80	**42.8**	**31.3**	74	54	-31.2	-22.7		1	noise floor
7401	32.2	20.5	32.1	20.6	15.70	**47.9**	**36.3**	74	54	-26.1	-17.7		1	noise floor
9842	34.6	23.4	34.6	23.5	18.89	**53.5**	**42.4**	74	54	-20.5	-11.6		1	noise floor
12283	34.8	23.4	35.8	23.3	22.08	**57.9**	**45.5**	74	54	-16.1	-8.5		1	noise floor

4. ATTESTATION STATEMENT

GENERAL REMARKS:

SUMMARY:

All tests were performed per CFR 47, *FCC Part 15, Paragraphs 15.247(a); (b); (c); and 15.209(a).*

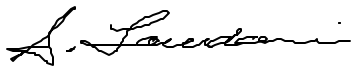
■ - Performed

The Equipment Under Test

■ - **Fulfills** the requirements of CFR 47, *FCC Part 15, Paragraphs 15.247(a); (b); (c); and 15.209(a).*

- TÜV PRODUCT SERVICE, INC. -

Responsible Engineer:



EMC Engineer

TÜV AMERICA, INC. 10040 Mesa Rim Road San Diego, CA 92121-2912 Phone 858 546 3999 FAX 858 546 0364