

TEST NUMBER - 339-04 RevB

TEST REPORT TO

**INDUSTRY CANADA RSS 210 SECTION 6.2.2(k)
FEDERAL COMMUNICATIONS COMMISSION CFR47 PART15.239**

**Low Power License-Exempt Radiocommunication Devices
Intentional Radiators 88-108 MHz Band**

for

Arkon Resources, Inc.
20 La Porte St.
Arcadia, CA 91006
626-254-9005

of

88 and 108 MHz FM Modulator

SF 280

FCC ID: ME2-SF280

on

11-3-2004

Tested by

Andrew Mertinooke

Reviewed by

Clifton P. Brick

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TEST DESCRIPTION

1. TEST OBJECTIVE

To test the 88 and 108 MHz FM Modulator SF 280 to RSS 210 / Part 15 Subpart C Rules and write a report.

2. E.U.T. DESCRIPTION

GENERAL

The 88 and 108 MHz FM Modulator SF 280 is a short range low power transmitter used to allow a portable audio device to be linked with a broadcast band stereo receiver. The SF-280 is a low power FM transmitter that receives an input signal from a portable audio device such as a CD Player and transmits to a regular FM Receiver such as a car radio. It is designed to play the signal from the CD Player through the car stereo. It is approximately 3"x1.5"x0.75" and weighs less than 2 ounces.

Available channels, 88.1, 88.3, 88.5, 88.7, 88.9, 106.7, 106.9, 107.1, 107.3, 107.5, 107.7, 107.9

SERIAL NUMBERS:

Pre Production Prototype

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TEST RESULTS AND CONCLUSIONS

PRODUCT TESTED - 88 and 108 MHz FM Modulator

MODEL NUMBER - SF 280

RADIATED TEST RESULTS

The test results show that the emissions radiated from this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C.

OCCUPIED BANDWIDTH & OUTPUT POWER

The test results show that the occupied bandwidth and output power of this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C .

CONDUCTED TEST RESULTS

The test results show that the emissions conducted through the power line from this equipment are in compliance with IC Rules RSS 210 / FCC Rules Part 15 Subpart C.

ANALYSIS AND CONCLUSIONS

Based upon the radiated and conducted measurements we find that this equipment is within the limits of the IC Rules RSS 210 / FCC Rules Part 15 Subpart C. All results are based on a test of one sample, and represent other production units, only in as much as a sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required.

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TEST PROCEDURES

1. TEST EQUIPMENT

- A. HP 8546A (9 kHz - 6.5 GHz) EMI Receiver w/ RF Filter Section, S/N 3704A00323 / 3650A00360. Calibration Date 1-16-2004, calibrated annually.
- B. Com-Power Biconilog Antenna, Model AC220, S/N 25509. Calibration Date 7-16-2004, calibrated annually.
- C. EMC0 LISN, Model EM 3825/2, S/N 9109-1860. Calibration Date: 3-10-2004, calibrated annually.

2. FREQUENCY RANGE TO BE SCANNED.

- A. Radiated Test from 30 MHz to 40 GHz (or the 10th harmonic of the highest frequency whichever is lower).
- B. Conducted Test from 150 kHz to 30 MHz.

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3. TEST PROCEDURES.

Radiated test procedure:

The EUT, associated cables and peripheral devices are placed on the supporting table and any support equipment is placed off the site. The EUT is turned on and any necessary operating or test software installed and allowed to warm up. The EUT is pre-scanned in our ferrite tile lined chamber where it is rotated 360 degrees and examined in both horizontal and vertical polarization, all emission frequencies are identified and recorded. The EUT is then moved to the OATS and the frequency band from 30 MHz to 40 GHz is scanned, all frequencies identified in the chamber are investigated, as well as harmonic frequencies of the EUT. When an emission is found the emission is maximized by varying the bundle position of the connecting cables, the antenna height, the antenna polarization (vertical and horizontal) and the table orientation (360 degrees). The maximum reading is recorded and the next signal is searched for.

Conducted test procedure:

The power line of the EUT is connected to the LISN (Line Impedance Stabilization Network). A measurement of the emissions are made from the power line for both phase and neutral on the analyzer in the frequency range from 150 kHz to 30 MHz. The maximum readings are recorded for each phase.

All measurements are made according to the procedures defined in: "ANSI C63.4-2001 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz"

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RSS 210/ FCC Part 15 TEST LIMITS

1. FCC Part 15.209, 15.235, 15.239, 15.249 Radiation Limits:
Limits are using a Quasi-Peak detector unless otherwise noted.

Frequency MHz	Distance meters	Limit dB μ V/m	Limit μ V/m
1.705 - 30	30	29.5*	30*
30 - 88	3	40.0	100
49.82 - 49.90	3	80.0*	10,000*
88-108	3	48.0*	250*
88 - 216	3	43.5	150
216 - 960	3	46.0	200
902 - 928	3	94.0*	50,000*
960 - 1000	3	54.0	500
1000 - 40000	3	54.0*	500*

*NOTE: Average Limits

2. RSS 210 Section 6.6a Conduction Limits
FCC Part 15.207 Conduction Limits

Frequency MHz	Quasi-Peak Limit dB μ V	Average Limit dB μ V
0.150 - 0.500	66 to 56	56 to 46
0.500 - 5.0	56	46
5.0 - 30.0	60	50

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TEST FACILITY DESCRIPTION

Compliance Worldwide is located on 357 Main Street in Sandown, New Hampshire. The conducted and radiated test sites, located at C.W. are used for Federal Communications Commission (FCC) testing and Industry Canada Testing. A site description is on file with the FCC in Columbia, MD USA. Site information is also on file with Industry Canada, anyone wishing to review this Test Facility Description is referred to file number **IC 3023**. This is currently on file at Industry Canada, 1241 Clyde Avenue, Ottawa, ON K2C 1Y3.

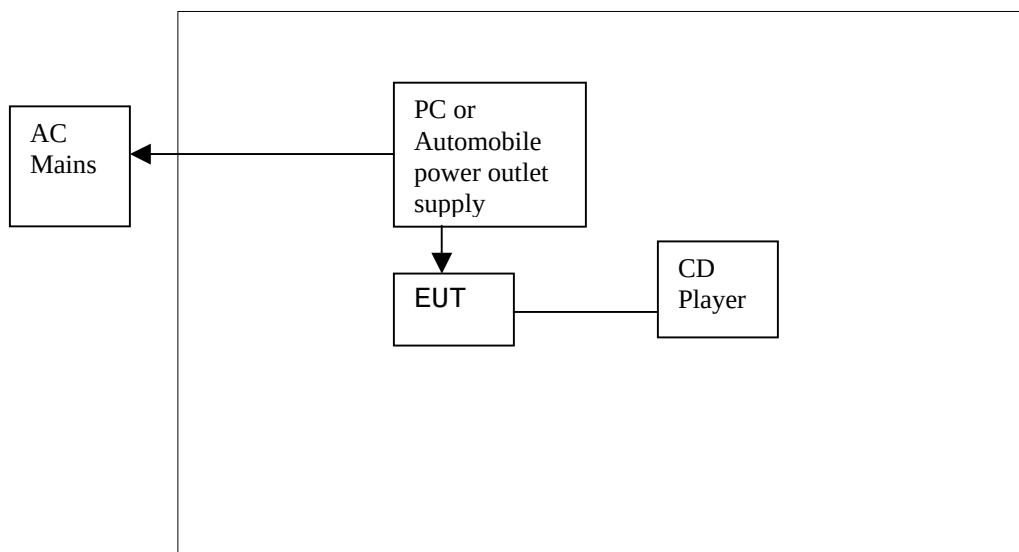
The radiated site is a 3/10 meter indoor site with an enclosure for the product and a basement for the personnel, support equipment and test equipment.

The conducted site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical metal wall required by EN 55022.

Both sites are designed to test products or systems 1.5 meter x 1.0 meter, floor standing or table top.

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**TEST SET UP
AND
PERIPHERAL CONNECTION INFORMATION**



For radiated measurements a 13.8V radio shack car adapter power supply was used in conjunction with the provided auto adapter. Preliminary scans showed that worst case radiated emissions were using the 13.8V supply and auto adapter. Conducted measurements were made using a Compaq 1600-XL145 laptop PC and the USB port for power.

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PLEASE NOTE - EUT (equipment under test) is Arkon SF 280
The cables directly connected to this equipment are listed below.

Connection Descriptions

1. Audio In Cable
(description)

EUT
(from device)

Auxiliary equipment (Sony Walkman D-EJ360)
(to device)

CABLE LENGTH 7 3/8" (S) SHIELDED or (U) UNSHIELDED U

2. USB Power adapter to 12V outlet plug
(description)

EUT
(from device)

Auto 13.8V power supply (not used when PC powered)
(to device)

CABLE LENGTH 2M (S) SHIELDED or (U) UNSHIELDED S

3. Power Cable
(description)

PC or Auto Outlet supply depending on setup
(from device)

AC Mains 120/60
(to device)

CABLE LENGTH 2M (S) SHIELDED or (U) UNSHIELDED U

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RADIATED TEST RESULTS

Frequency Range: 30 - 1000 MHz.
Measurement Distance: 1.0 Meters.
Bandwidth: 120 kHz, Per ANSI C63.4-1992.*
Detector Functions: Peak, Quasi Peak, Average
Video Filter: 300 kHz
Table Height: 0.8 meters
Antenna Height Variation: 1 - 4 Meters.

Horizontal and Vertical Polarization Measurements Taken, Worst Case shown.

*Measurement Bandwidth is 1 MHz above 1 GHz

PLEASE SEE NEXT PAGE FOR RADIATED TEST DATA

LIMIT EXTRAPOLATED TO 1 METER.

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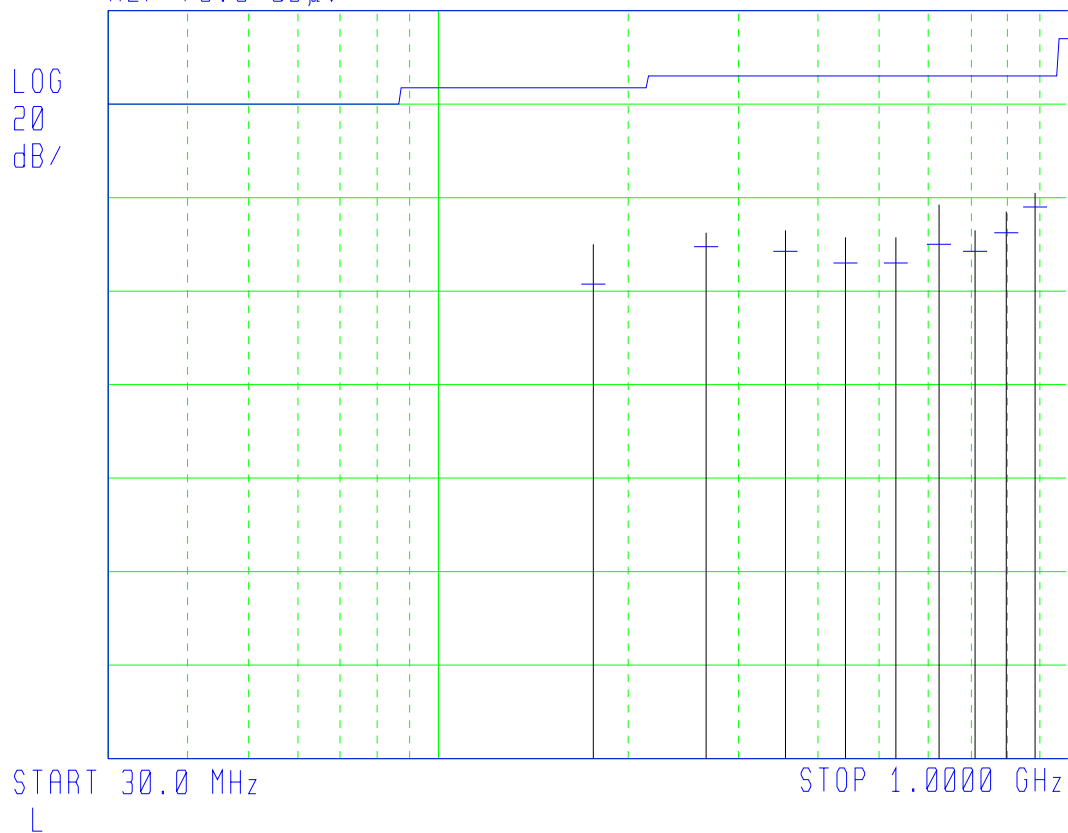
Low Channel Spurious Tabular Data

Freq (MHz)	Pol. (H/V)	Peak Amp (dBuV)	QP Amp (dBuV)	QP Limit (dBuV)	QP Margin (dB)
176.780150	V	20.23	11.47	53.50	-42.03
265.199550	V	22.51	19.43	56.00	-36.57
353.575725	V	23.19	19.19	56.00	-36.81
441.929775	V	21.81	16.26	56.00	-39.74
530.378950	V	21.96	16.28	56.00	-39.72
618.768800	V	29.38	20.78	56.00	-35.22
707.047350	V	23.62	18.84	56.00	-37.16
795.448150	V	27.13	22.48	56.00	-33.52
883.799875	V	31.15	27.96	56.00	-28.04

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Low Channel Spurious Log Plot

15:48:53 OCT 26, 2004 LOW CHANNEL SPORIOUS EMMIS
339-04 ARKON SF280 FM BAND TRANSMITTER
REF 70.0 dB μ V

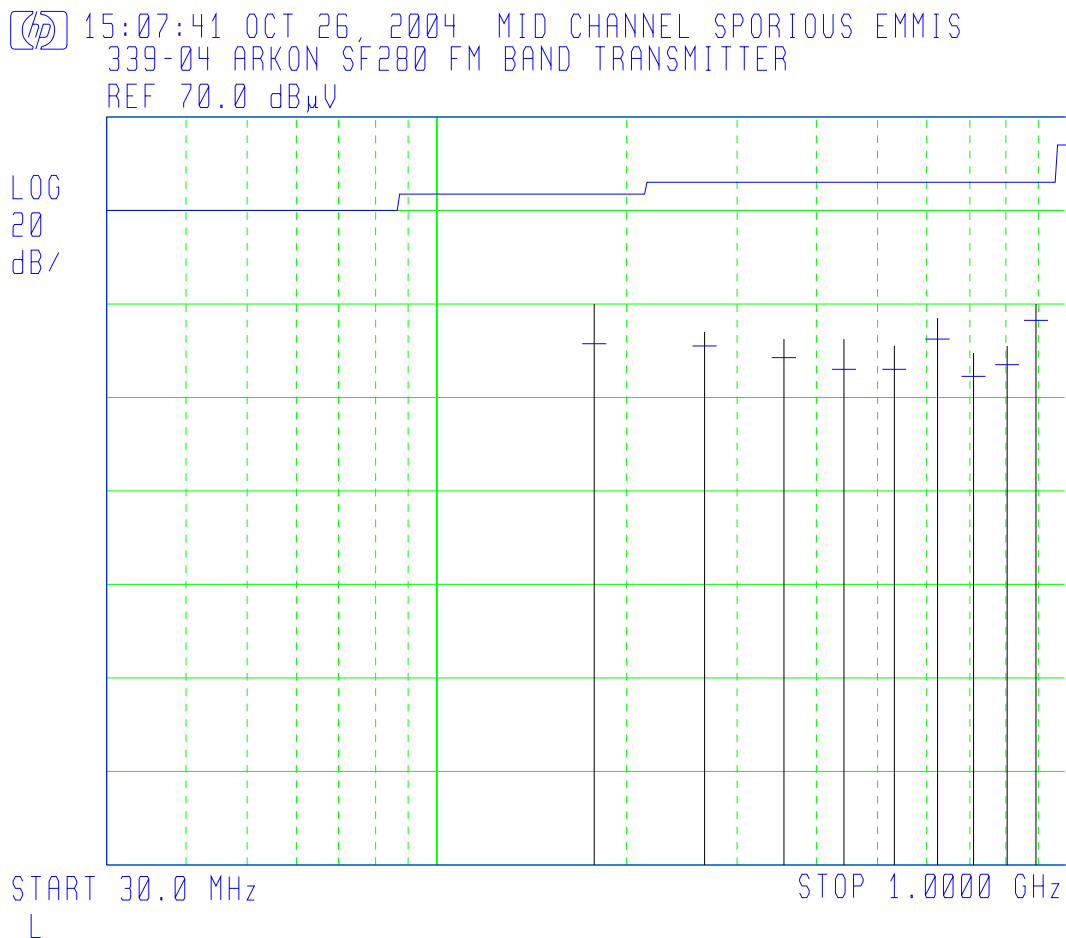


Mid Channel Spurious Tabular Data

Freq (MHz)	Pol. (H/V)	Peak Amp (dBuV)	QP Amp (dBuV)	QP Limit (dBuV)	QP Margin (dB)
177.355600	V	30.37	22.13	53.50	-31.37
266.055600	V	23.95	20.91	56.00	-35.09
354.724400	V	22.94	18.69	56.00	-37.31
443.385350	V	22.67	16.83	56.00	-39.17
532.052000	V	21.26	16.21	56.00	-39.79
620.841800	V	27.59	23.07	56.00	-32.93
709.522050	V	19.59	15.31	56.00	-40.69
798.197250	V	21.38	16.93	56.00	-39.07
886.873025	V	30.47	26.79	56.00	-29.21

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Mid Channel Spurious Log Plot



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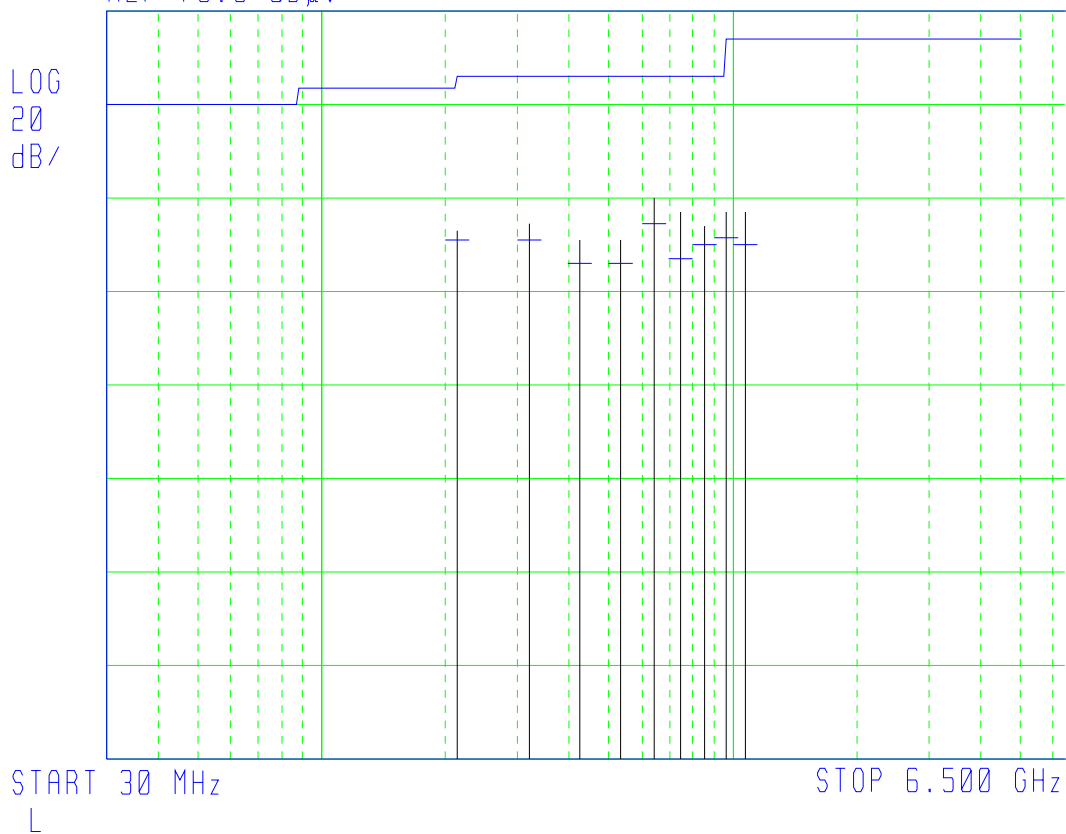
Upper band low Channel Spurious Tabular Data

Freq (MHz)	Pol. (H/V)	Peak Amp (dBuV)	QP Amp (dBuV)	QP Limit (dBuV)	QP Margin (dB)
213.374600	V	23.85	21.32	53.50	-32.18
320.049375	V	24.94	21.10	56.00	-34.90
426.718375	V	21.37	16.30	56.00	-39.70
533.535725	V	21.54	16.23	56.00	-39.77
640.237950	V	30.42	24.74	56.00	-31.26
746.902625	V	27.18	17.61	56.00	-38.39
853.513348	V	24.55	20.45	56.00	-35.55
960.290348	V	27.43	22.07	64.00	-41.93
1067.065423	V	27.84	N/A	64.00	-43.36

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Upper band low Channel Spurious Log Plot

14:27:28 NOV 03, 2004 HIGH BND LOW CH SPUR EMISS
339-04 ARKON SF280 FMBAAND TRANSMITTER
REF 70.0 dB μ V



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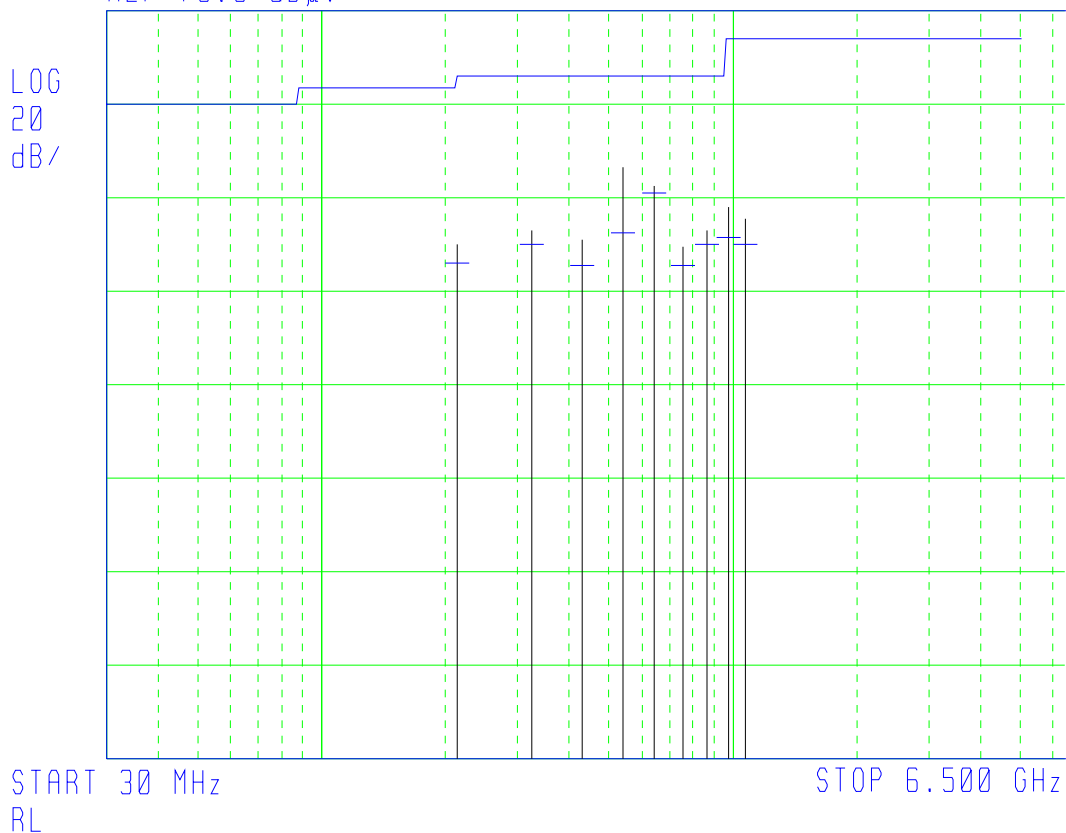
Upper Channel Spurious Tabular Data

Freq (MHz)	Pol. (H/V)	Peak Amp (dBuV)	QP Amp (dBuV)	QP Limit (dBuV)	QP Margin (dB)
215.335800	V	20.55	16.83	53.50	-36.67
323.209225	V	23.94	20.79	56.00	-35.21
430.847950	V	20.85	15.48	56.00	-40.52
538.472575	V	36.91	23.13	56.00	-32.87
646.253350	V	33.17	31.46	56.00	-24.54
753.922025	V	19.93	16.05	56.00	-39.95
861.599998	V	23.39	20.06	56.00	-35.94
969.329375	V	27.93	22.06	64.00	-41.94
1076.949575	V	25.83	20.61	64.00	-43.39

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Upper Channel Spurious Log Plot

11:57:07 OCT 26, 2004 HIGH CHANNEL SPURIOUS EMIS
339-04 ARKON SF280 FM BAND TRANSMITTER
REF 70.0 dB μ V



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RADIATED OUTPUT POWER & OCCUPIED BANDWIDTH TEST RESULTS

Frequency Range: 88.3-107.7MHz.
Measurement Distance: 3.0 Meters.
Bandwidth: As Noted, Per ANSI C63.4-1992.
Detector Functions: Peak, Quasi Peak, Average.
Video Filter: 300 kHz
Table Height: 0.8 meters
Antenna Height Variation: 1 - 4 Meters.
Horizontal and Vertical Polarization Measurements Taken, Worst Case Reported.

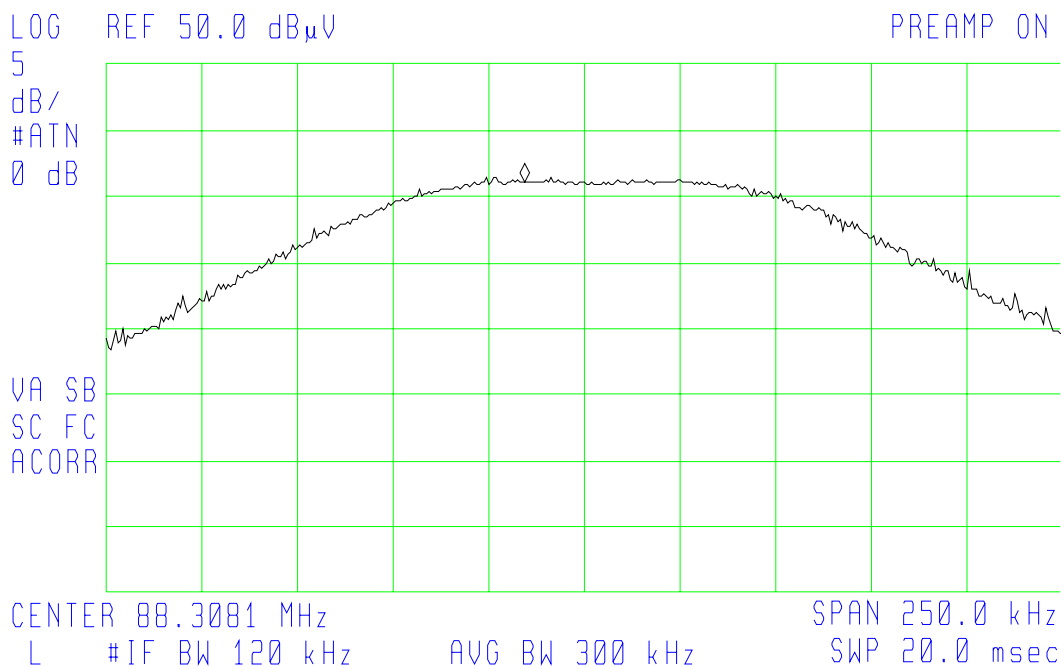
PLEASE SEE NEXT PAGE(S) FOR OCCUPIED BANDWIDTH RADIATED TEST DATA

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Low Channel Output Power Plot

15:28:03 20 SEP 2004 LOW CHANNEL FS
339-04 ARKON SF280 FM BAND TRANSMITTER

FREQ 88.29 MHz
PEAK 41.6 dBμV
QP 40.8 dBμV
AVG 39.7 dBμV



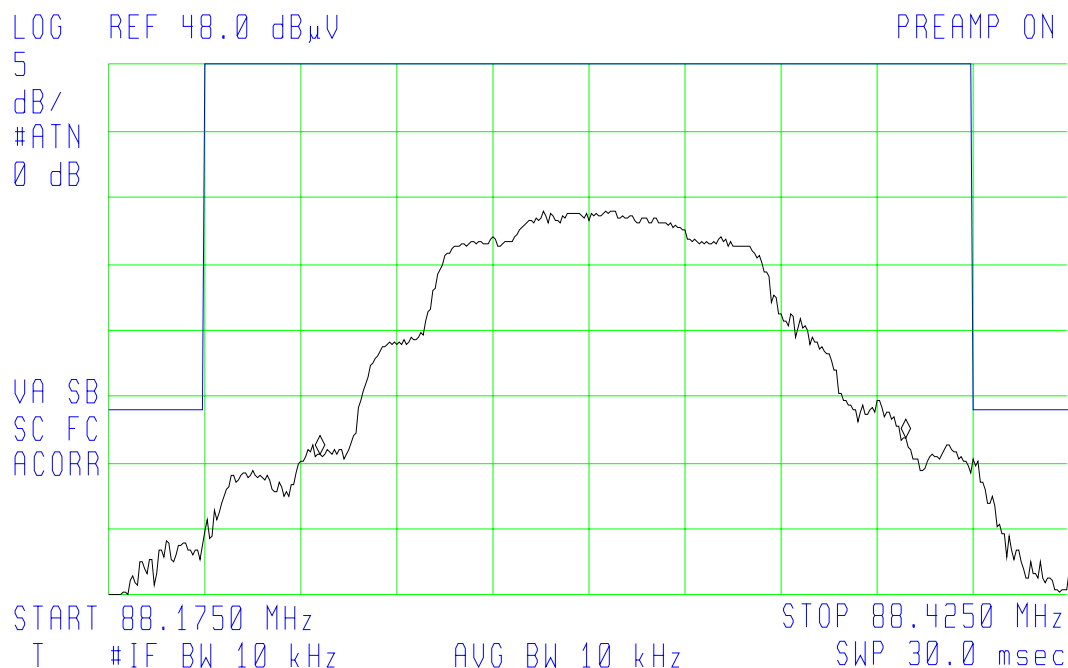
Freq (MHz)	Polarization (H/V)	Peak Amp (dBuV/m)	Avg Amp (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)
88.3	H	41.6	40.0	48.0	-8.0

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Low Channel Occupied Bandwidth Plot

15:43:58 29 SEP 2004 LOW CH BW MARKER IS 99%
339-04 ARKON SF280 FM BAND TX

ACTV DET: PEAK
MEAS DET: PEAK
MKR Δ 152.5 kHz
1.24 dB



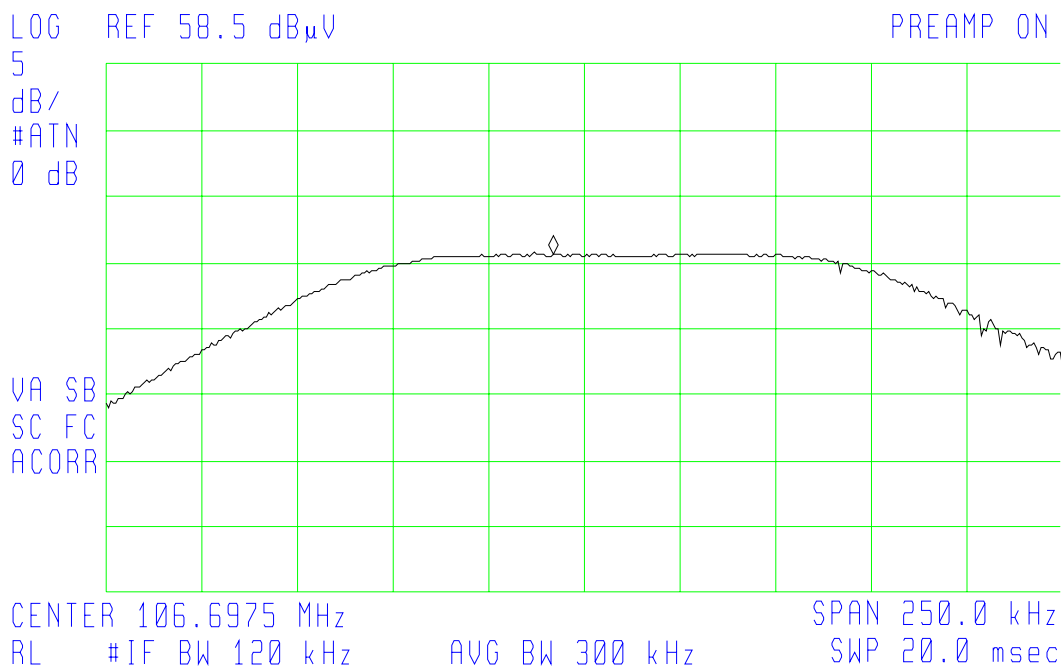
Display shows a mask with the top limit at 48 dB μ V, and the lower flanks 200 kHz wide and 26 dB below the top limit. Also Marker Delta shows bandwidth 26 dB down from the peak measured amplitude.

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Upper Band Low Channel Output Power Plot

11:54:26 NOV 03, 2004 UPPER BAND LOW CHANNEL FS
339-04 ARKON SF280 FMBAAND TRANSMITTER

FREQ 106.7 MHz
PEAK 44.2 dBμV
QP 43.7 dBμV
AVG 42.7 dBμV

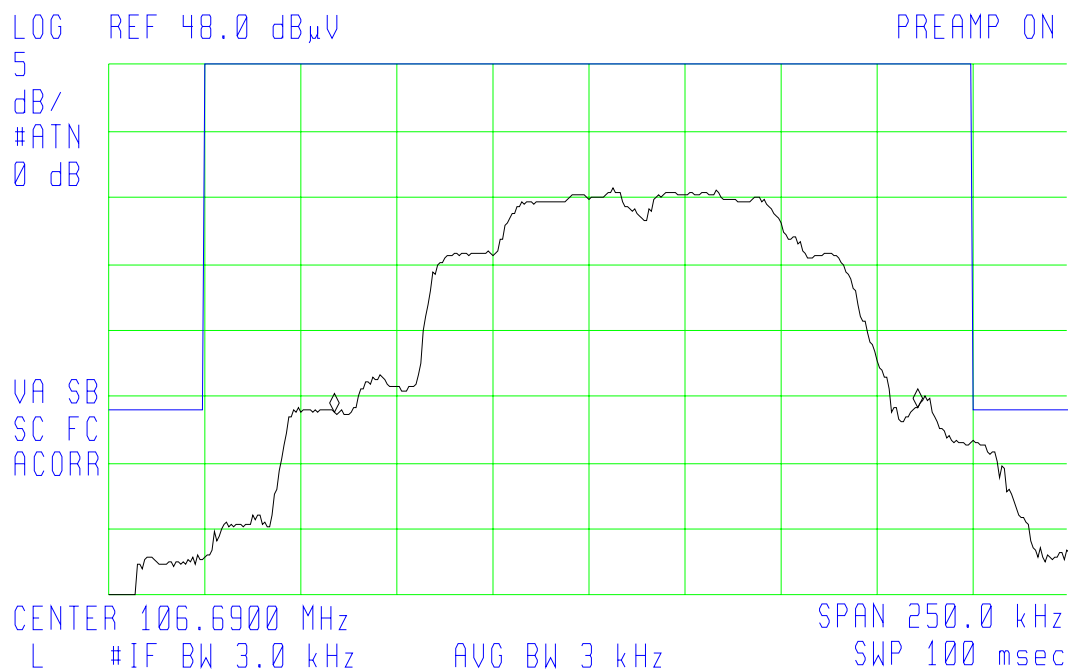


Freq (MHz)	Polarization (H/V)	Peak Amp (dBuV/m)	Avg Amp (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)
106.7	H	44.2	42.7	48.0	-5.3

Upper band Low Channel Occupied Bandwidth Plot

13:45:44 NOV 03, 2004 UP BAND LOW CH 99% POWER BW
339-04 ARKON SF280 FMBAAND TRANSMITTER

ACTV DET: PEAK
MEAS DET: PEAK QP AVG
MKR Δ 151.9 kHz
.27 dB



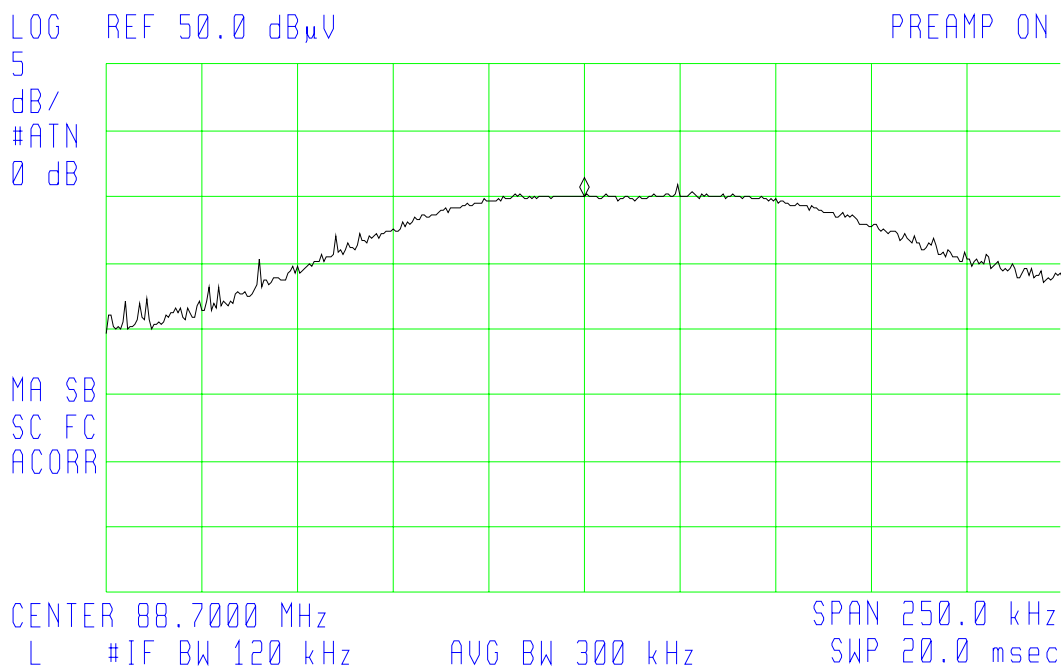
Display shows a mask with the top limit at 48 dB μ V, and the lower flanks 200 kHz wide and 26 dB below the top limit. Also Marker Delta shows bandwidth 26 dB down from the peak measured amplitude.

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Mid Channel Output Power Plot

15:16:45 20 SEP 2004 MID CHANNEL FS
339-04 ARKON SF280 FM BAND TRANSMITTER

FREQ 88.70 MHz
PEAK 40.4 dBμV
QP 39.3 dBμV
AVG 38.7 dBμV



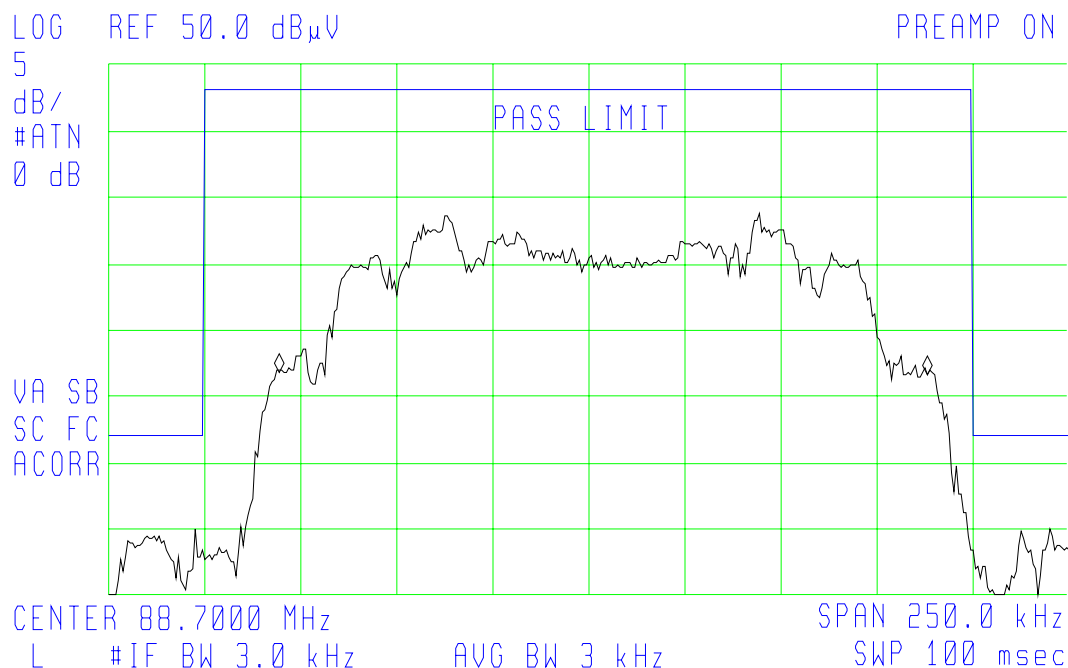
Freq (MHz)	Polarization (H/V)	Peak Amp (dBuV/m)	Avg Amp (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)
88.70	H	40.4	38.7	48.0	-9.3

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Mid Channel Occupied Bandwidth Plot

14:24:33 29 SEP 2004 MID CH BW MARKER IS 99%
339-04 ARKON SF280 FM BAND TX

ACTV DET: PEAK
MEAS DET: PEAK QP
MKR Δ 168.8 kHz
-.33 dB



Display shows a mask with the top limit at 48 dBuV, and the lower flanks 200 kHz wide and 26 dB below the top limit. Also Marker Delta shows bandwidth 26 dB down from the peak measured amplitude.

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Upper Channel Output Power Plot

14:57:05 20 SEP 2004 HIGH CHANNEL FS
339-04 ARKON SF280 FM BAND TRANSMITTER

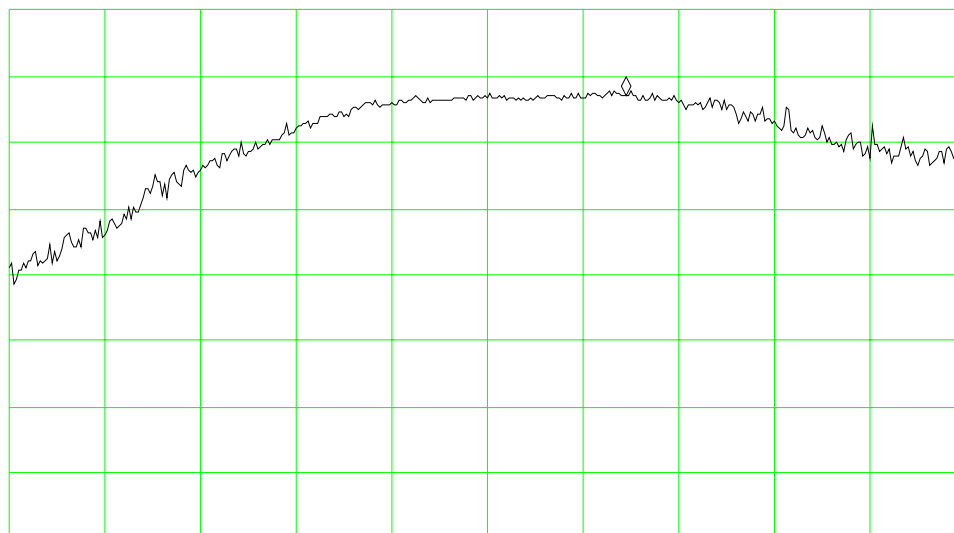
FREQ 107.7 MHz
PEAK 52.1 dB μ V
QP 50.9 dB μ V
AVG 47.0 dB μ V

LOG REF 58.5 dB μ V

PREAMP ON

5
dB/
#ATN
0 dB

VA SB
SC FC
ACORR



CENTER 107.7000 MHz

SPAN 250.0 kHz

RL #IF BW 120 kHz

AVG BW 300 kHz

SWP 20.0 msec

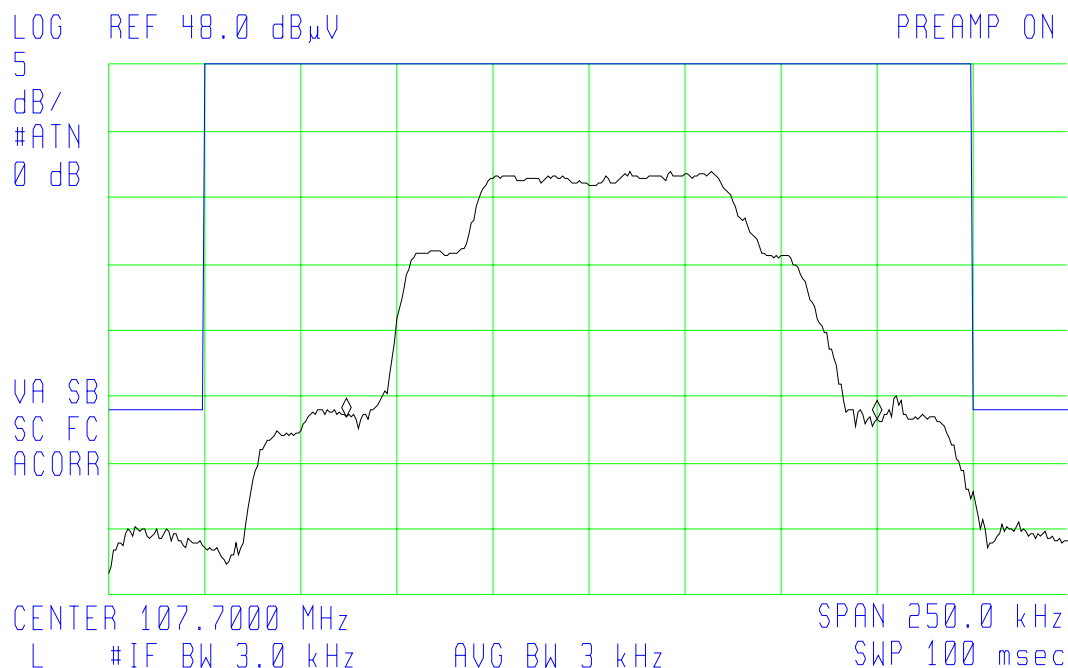
Freq (MHz)	Polarization (H/V)	Peak Amp (dBuV/m)	Avg Amp (dBuV/m)	Avg Limit (dBuV/m)	Avg Margin (dB)
107.70	H	52.1	47.0	48.0	-1.0

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Upper Channel Occupied Bandwidth Plot

15:21:33 29 SEP 2004 HIGH CH BW MARKER IS 99%
339-04 ARKON SF280 FM BAND TX

ACTV DET: PEAK
MEAS DET: PEAK
MKR Δ 138.1 kHz
-.23 dB



Display shows a mask with the top limit at 48 dB μ V, and the lower flanks 200 kHz wide and 26 dB below the top limit. Also Marker Delta shows bandwidth 26 dB down from the peak measured amplitude.

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CONDUCTED TEST RESULTS

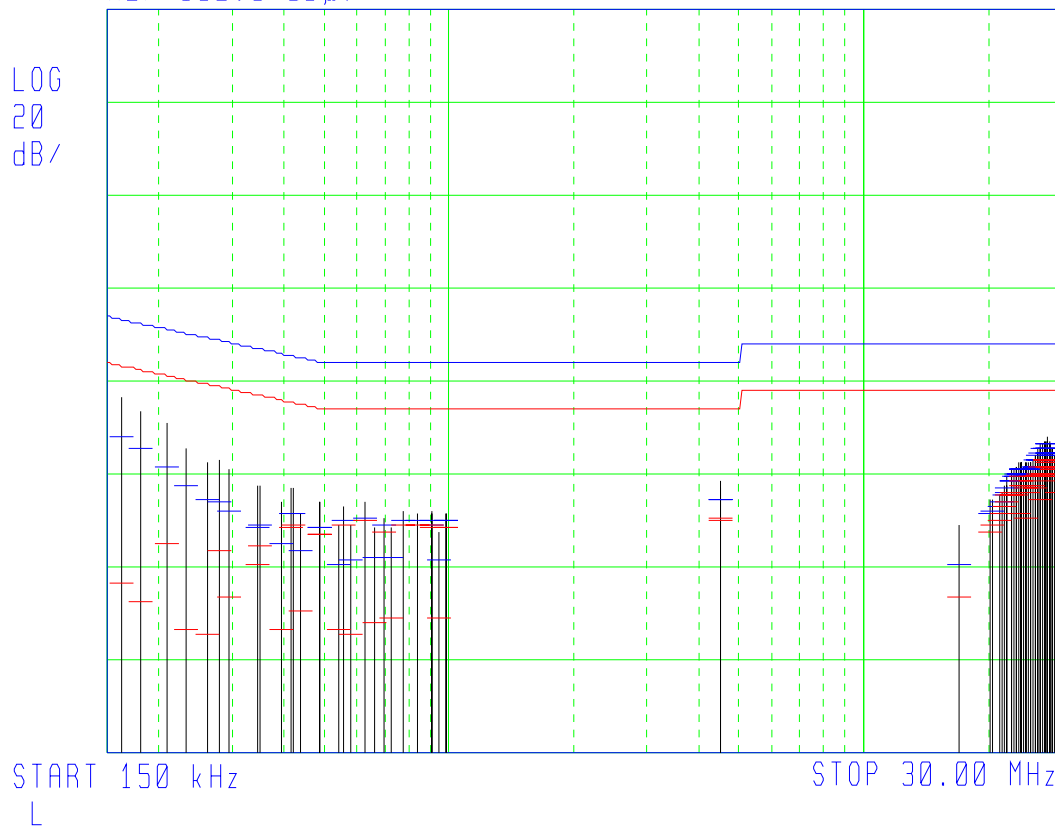
Frequency Range:	150 kHz to 30.0 MHz.
Bandwidth:	9 kHz per ANSI C63.4-1992.
Detector Functions:	Peak, Quasi-Peak, Average
Table Height:	0.8 meters
Video Bandwidth:	30 kHz.

Phase and Neutral Measurements Taken.

See the following pages for conducted data.

CONDUCTED TEST RESULTS 120 N PLOT

16:44:32 OCT 25, 2004 120VAC 60HZ CON NEUTRAL
339-04 ARCON SF280 FM BAND TRANSMITTER
REF 132.0 dB μ V



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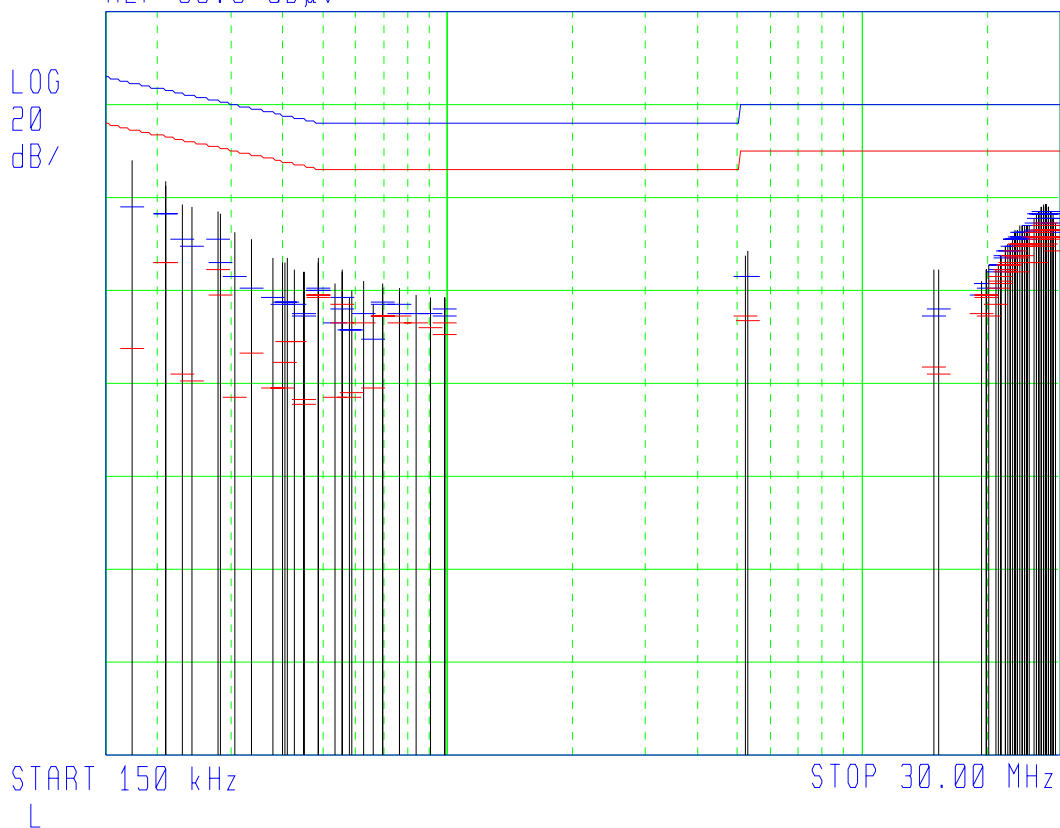
CONDUCTED TEST RESULTS 120 N List

Freq (MHz)	Peak Amp (dBuV)	QP Amp (dBuV)	Avg Amp (dBuV)	QP Limit (dBuV)	Avg Limit (dBuV)	QP Margin (dB)	Avg Margin (dB)
0.162895	48.60	40.46	8.88	65.37	55.37	-24.91	-46.49
0.180501	45.61	37.76	5.52	64.51	54.51	-26.75	-48.99
0.208968	43.35	34.35	17.62	63.31	53.31	-28.96	-35.69
0.234145	38.30	30.04	-1.20	62.34	52.34	-32.30	-53.54
0.263266	35.08	26.90	-2.19	61.39	51.39	-34.49	-53.58
0.282639	35.34	26.37	16.01	60.80	50.80	-34.43	-34.79
0.297663	33.22	24.63	6.31	60.34	50.34	-35.71	-44.03
0.345031	30.19	21.01	12.66	59.14	49.14	-38.13	-36.48
0.351594	30.06	21.82	16.85	58.99	48.99	-37.17	-32.14
0.393939	26.42	17.68	-0.81	57.98	47.98	-40.30	-48.79
0.419703	29.01	23.58	20.94	57.50	47.50	-33.92	-26.56
0.420876	29.71	24.08	21.49	57.48	47.48	-33.40	-25.99
0.438469	23.86	16.38	2.49	57.15	47.15	-40.77	-44.66
0.490184	26.44	20.54	18.84	56.18	46.18	-35.64	-27.34
0.490480	25.97	20.83	19.12	56.18	46.18	-35.35	-27.06
0.544966	21.49	13.26	-0.82	56.00	46.00	-42.74	-46.82
0.561861	25.62	22.64	21.57	56.00	46.00	-33.36	-24.43
0.584759	21.61	14.03	-1.66	56.00	46.00	-41.97	-47.66
0.631613	26.25	23.11	22.10	56.00	46.00	-32.89	-23.90
0.659350	21.12	14.33	0.17	56.00	46.00	-41.67	-45.83
0.703570	23.49	21.31	20.27	56.00	46.00	-34.69	-25.73
0.725501	20.64	14.32	1.16	56.00	46.00	-41.68	-44.84
0.772454	24.65	22.70	21.84	56.00	46.00	-33.30	-24.16
0.843756	23.64	22.46	21.28	56.00	46.00	-33.54	-24.72
0.911914	23.64	21.78	20.83	56.00	46.00	-34.22	-25.17
0.913554	25.06	22.17	21.22	56.00	46.00	-33.83	-24.78
0.950405	19.71	13.68	1.19	56.00	46.00	-42.32	-44.81
0.982519	23.87	22.46	20.86	56.00	46.00	-33.54	-25.14
0.982870	23.96	22.49	20.92	56.00	46.00	-33.51	-25.08
4.495130	30.62	27.03	22.97	56.00	46.00	-28.97	-23.03
4.496084	29.49	26.77	22.56	56.00	46.00	-29.23	-23.44
16.814330	21.29	13.02	6.06	60.00	50.00	-46.98	-43.94
20.173518	27.14	23.63	19.87	60.00	50.00	-36.37	-30.13
20.367720	27.10	24.34	21.53	60.00	50.00	-35.66	-28.47
21.151528	27.74	25.24	22.70	60.00	50.00	-34.76	-27.30
21.348044	28.79	26.48	23.57	60.00	50.00	-33.52	-26.43
21.740160	30.30	28.11	25.48	60.00	50.00	-31.89	-24.52
21.935240	30.47	28.73	26.17	60.00	50.00	-31.27	-23.83
22.131291	31.80	29.62	27.58	60.00	50.00	-30.38	-22.42
22.522779	32.54	30.92	28.74	60.00	50.00	-29.08	-21.26
22.721103	33.06	30.89	28.13	60.00	50.00	-29.11	-21.87
22.918160	32.88	31.48	28.40	60.00	50.00	-28.52	-21.60
23.106635	33.88	31.50	27.53	60.00	50.00	-28.50	-22.47
23.113718	34.42	32.28	28.47	60.00	50.00	-27.72	-21.53

Freq (MHz)	Peak Amp (dBuV)	QP Amp (dBuV)	Avg Amp (dBuV)	QP Limit (dBuV)	Avg Limit (dBuV)	QP Margin (dB)	Avg Margin (dB)
23.508775	34.71	32.09	23.99	60.00	50.00	-27.91	-26.01
23.696244	34.81	33.41	31.34	60.00	50.00	-26.59	-18.66
23.699326	34.88	33.10	30.85	60.00	50.00	-26.90	-19.15
23.700418	34.63	32.99	30.11	60.00	50.00	-27.01	-19.89
24.087514	34.37	33.11	30.47	60.00	50.00	-26.89	-19.53
24.290931	34.54	31.92	23.50	60.00	50.00	-28.08	-26.50
24.483955	34.78	33.10	29.46	60.00	50.00	-26.90	-20.54
24.878558	34.45	32.03	28.78	60.00	50.00	-27.97	-21.22
25.068971	35.03	33.34	30.66	60.00	50.00	-26.66	-19.34
25.263691	35.16	33.63	31.38	60.00	50.00	-26.37	-18.62
25.463828	35.44	34.01	30.23	60.00	50.00	-25.99	-19.77
25.659998	35.99	34.02	29.38	60.00	50.00	-25.98	-20.62
25.847686	36.75	35.29	31.80	60.00	50.00	-24.71	-18.20
26.042504	37.40	35.80	31.74	60.00	50.00	-24.20	-18.26
26.245534	38.28	36.34	32.83	60.00	50.00	-23.66	-17.17
26.438866	38.36	36.90	33.88	60.00	50.00	-23.10	-16.12
26.627218	38.29	35.30	27.37	60.00	50.00	-24.70	-22.63
26.834979	39.11	37.67	32.58	60.00	50.00	-22.33	-17.42
27.025481	39.54	38.20	35.61	60.00	50.00	-21.80	-14.39
27.223961	39.83	38.00	35.36	60.00	50.00	-22.00	-14.64
27.414021	39.52	37.55	31.72	60.00	50.00	-22.45	-18.28
27.415946	39.78	38.50	35.97	60.00	50.00	-21.50	-14.03
27.416995	39.90	38.49	35.47	60.00	50.00	-21.51	-14.53
27.421711	39.60	38.18	35.10	60.00	50.00	-21.82	-14.90
27.609713	39.59	38.17	35.33	60.00	50.00	-21.83	-14.67
27.612419	40.11	38.12	35.68	60.00	50.00	-21.88	-14.32
27.612823	39.51	37.58	33.73	60.00	50.00	-22.42	-16.27
27.807008	39.10	37.35	32.38	60.00	50.00	-22.65	-17.62
27.815208	39.45	37.76	34.18	60.00	50.00	-22.24	-15.82
28.007405	38.76	37.25	34.57	60.00	50.00	-22.75	-15.43
28.399299	37.85	36.25	33.53	60.00	50.00	-23.75	-16.47
28.401068	37.86	36.14	33.24	60.00	50.00	-23.86	-16.76
28.794114	36.61	35.03	31.20	60.00	50.00	-24.97	-18.80
28.989329	36.13	34.34	31.57	60.00	50.00	-25.66	-18.43
29.178360	35.62	33.44	28.64	60.00	50.00	-26.56	-21.36

CONDUCTED TEST RESULTS 120 P PLOT

16:16:10 OCT 25, 2004 120VAC 60HZ CON PHASE
339-04 ARCON SF280 FM BAND TRANSMITTER
REF 80.0 dB μ V



CONDUCTED TEST RESULTS 120 P LIST

Freq (MHz)	Peak Amp (dBuV)	QP Amp (dBuV)	Avg Amp (dBuV)	QP Limit (dBuV)	Avg Limit (dBuV)	QP Margin (dB)	Avg Margin (dB)
0.174670	48.14	38.40	7.55	64.80	54.80	-26.40	-47.25
0.209429	43.75	36.83	26.51	63.29	53.29	-26.46	-26.78
0.210618	43.28	36.95	26.72	63.25	53.25	-26.30	-26.53
0.230005	39.18	31.60	2.31	62.50	52.50	-30.90	-50.19
0.243001	38.21	29.41	0.81	62.00	52.00	-32.59	-51.19
0.282195	37.68	31.35	25.24	60.81	50.81	-29.46	-25.57
0.284974	36.43	26.86	19.82	60.73	50.73	-33.87	-30.91
0.307490	33.14	23.52	-2.11	60.05	50.05	-36.53	-52.16
0.338884	30.90	21.09	7.40	59.29	49.29	-38.20	-41.89
0.379209	27.17	18.89	-0.59	58.33	48.33	-39.44	-48.92
0.403913	26.81	17.53	-1.06	57.80	47.80	-40.27	-48.86
0.407635	26.53	17.92	5.02	57.73	47.73	-39.81	-42.71
0.412789	27.05	17.61	9.70	57.63	47.63	-40.02	-37.93
0.430619	25.09	17.11	9.19	57.30	47.30	-40.19	-38.11
0.453151	24.28	14.95	-3.24	56.88	46.88	-41.93	-50.12
0.453456	24.56	15.55	-4.14	56.87	46.87	-41.32	-51.01
0.490020	26.70	20.37	19.10	56.19	46.19	-35.82	-27.09
0.490813	26.18	20.78	19.22	56.17	46.17	-35.39	-26.95
0.490981	27.08	20.63	19.22	56.17	46.17	-35.54	-26.95
0.533541	21.73	12.99	-2.59	56.00	46.00	-43.01	-48.59
0.557726	23.81	16.10	13.47	56.00	46.00	-39.90	-32.53
0.561674	24.72	18.87	17.08	56.00	46.00	-37.13	-28.92
0.580911	19.01	11.96	-1.99	56.00	46.00	-44.04	-47.99
0.587246	20.03	11.55	-1.63	56.00	46.00	-44.45	-47.63
0.627446	22.77	15.39	12.87	56.00	46.00	-40.61	-33.13
0.665326	17.40	9.98	-0.86	56.00	46.00	-46.02	-46.86
0.702740	21.13	17.51	14.72	56.00	46.00	-38.49	-31.28
0.702741	21.76	17.61	14.97	56.00	46.00	-38.39	-31.03
0.769233	20.01	15.92	13.21	56.00	46.00	-40.08	-32.79
0.771085	21.06	17.37	14.96	56.00	46.00	-38.63	-31.04
0.844018	19.44	15.97	13.14	56.00	46.00	-40.03	-32.86
0.910060	19.10	15.41	12.44	56.00	46.00	-40.59	-33.56
0.983023	19.02	16.41	12.92	56.00	46.00	-39.59	-33.08
0.985279	18.35	15.03	10.87	56.00	46.00	-40.97	-35.13
5.190195	27.98	23.32	14.82	60.00	50.00	-36.68	-35.18
5.261580	28.65	23.29	14.36	60.00	50.00	-36.71	-35.64
14.817514	24.64	15.12	3.83	60.00	50.00	-44.88	-46.17
15.139466	25.08	16.51	2.34	60.00	50.00	-43.49	-47.66
19.174149	23.02	19.47	15.28	60.00	50.00	-40.53	-34.72
19.763733	24.94	22.17	19.37	60.00	50.00	-37.83	-30.63
19.764815	24.80	22.13	19.79	60.00	50.00	-37.87	-30.21
19.769050	24.73	21.89	18.70	60.00	50.00	-38.11	-31.30

Freq (MHz)	Peak Amp (dBuV)	QP Amp (dBuV)	Avg Amp (dBuV)	QP Limit (dBuV)	Avg Limit (dBuV)	QP Margin (dB)	Avg Margin (dB)
20.150249	25.59	21.46	14.87	60.00	50.00	-38.54	-35.13
20.945735	24.95	22.17	17.22	60.00	50.00	-37.83	-32.78
21.136740	25.73	23.81	21.35	60.00	50.00	-36.19	-28.65
21.333336	27.99	24.92	22.43	60.00	50.00	-35.08	-27.57
21.526746	27.77	25.94	23.20	60.00	50.00	-34.06	-26.80
21.531374	27.60	25.49	21.92	60.00	50.00	-34.51	-28.08
21.920244	29.73	27.37	24.26	60.00	50.00	-32.63	-25.74
22.113534	29.92	27.98	25.34	60.00	50.00	-32.02	-24.66
22.312354	30.33	28.49	25.98	60.00	50.00	-31.51	-24.02
22.504053	30.74	28.31	25.47	60.00	50.00	-31.69	-24.53
22.507973	30.41	28.90	26.59	60.00	50.00	-31.10	-23.41
22.895754	31.41	29.95	27.86	60.00	50.00	-30.05	-22.14
23.093814	32.68	31.00	29.15	60.00	50.00	-29.00	-20.85
23.283725	33.17	31.46	28.35	60.00	50.00	-28.54	-21.65
23.479970	33.51	31.55	26.98	60.00	50.00	-28.45	-23.02
23.480525	33.86	31.50	28.08	60.00	50.00	-28.50	-21.92
23.491073	33.33	29.56	23.97	60.00	50.00	-30.44	-26.03
23.877604	34.03	32.32	30.07	60.00	50.00	-27.68	-19.93
24.071955	34.13	32.43	30.25	60.00	50.00	-27.57	-19.75
24.271580	34.15	32.33	28.40	60.00	50.00	-27.67	-21.60
24.456881	33.66	31.26	26.51	60.00	50.00	-28.74	-23.49
24.465371	33.97	32.64	29.63	60.00	50.00	-27.36	-20.37
24.655150	33.97	32.20	29.79	60.00	50.00	-27.80	-20.21
24.852924	34.32	32.78	30.64	60.00	50.00	-27.22	-19.36
25.050329	34.41	32.59	30.27	60.00	50.00	-27.41	-19.73
25.831996	35.97	34.46	31.87	60.00	50.00	-25.54	-18.13
26.020761	35.81	33.19	26.17	60.00	50.00	-26.81	-23.83
26.222843	36.68	35.04	32.63	60.00	50.00	-24.96	-17.37
26.612735	37.69	35.90	31.18	60.00	50.00	-24.10	-18.82
26.619835	37.78	36.32	32.21	60.00	50.00	-23.68	-17.79
26.812760	38.29	36.74	33.37	60.00	50.00	-23.26	-16.63
26.817558	38.10	36.72	32.99	60.00	50.00	-23.28	-17.01
27.011445	38.47	37.10	34.55	60.00	50.00	-22.90	-15.45
27.198615	38.91	36.47	29.67	60.00	50.00	-23.53	-20.33
27.397374	38.76	36.55	32.33	60.00	50.00	-23.45	-17.67
27.403283	38.73	37.45	30.16	60.00	50.00	-22.55	-19.84
27.405093	38.75	36.80	33.59	60.00	50.00	-23.20	-16.41
27.405429	38.80	37.48	34.89	60.00	50.00	-22.52	-15.11
27.788926	38.27	36.45	33.66	60.00	50.00	-23.55	-16.34
27.794369	38.43	37.09	34.25	60.00	50.00	-22.91	-15.75
27.987558	38.42	36.58	32.27	60.00	50.00	-23.42	-17.73
28.184431	37.62	36.25	33.56	60.00	50.00	-23.75	-16.44
28.380795	37.11	35.60	32.19	60.00	50.00	-24.40	-17.81
28.575961	36.56	34.94	31.93	60.00	50.00	-25.06	-18.07
28.770756	35.94	34.12	31.10	60.00	50.00	-25.88	-18.90
29.159949	34.82	32.64	29.15	60.00	50.00	-27.36	-20.85

TEST NUMBER - 339-04 RevB

NOTES AND COMMENTS

(Special conditions unique to this test)

The EUT Bandwidth was measured using a 1kHz tone at 320mVPP.

The EUT was examined in 3 orthogonal planes and the worst case plane and cable configuration is as shown in the setup photos.

EUT is powered from a USB port or from a car 12V outlet via an adapter.

This report was revised from the original dated 9-29-2004, an additional channel at 906.7 MHz was measured and the data added.