



Wi-LAN Inc.
2891 Sunridge Way N.E.
Calgary, Alberta T1Y 7K7
Phone: (403) 273-9133
Fax: (403) 273-5100

Certification Test Report (Rev 2) for the
Wi-LAN AWE 120-24 Rev. 2

FCC Part 15 Subpart C Section 15.247
(MPE Calculations and Antenna Port and AC Mains Conducted Measurements)

9 July 2001

Prepared By:

Jeffery Taylor
Compliance Technologist

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Introduction

Date of testing:	2 July 2001 - 9 July 2001
Purpose of Test:	To show the compliance of the 'Wi-LAN AWE 120-24 Rev. 2' with the MPE, AC mains and Antenna port conducted regulations set forth in CFR 47 FCC Part 15.
Test Technologist	Jeffery Taylor
Test Location	Wi-LAN Inc. 2891 Sunridge Way NE Calgary AB Canada T1Y 7K7
Equipment Under Test	'Wi-LAN AWE 120-24 Rev. 2'
Description	'Wi-LAN AWE 120-24 Rev. 2' (EUT) is a Wireless Ethernet Bridge. The EUT transmits at 2.4 GHz using DSSS. The EUT uses PSK modulation and has a aggregate bit rate of 12 Mbps. The EUT is powered by an Acbel Polytech Inc. AC/DC converter (power supply). The power supply has a rated input voltage of 100-240 V 60/50 Hz and an output of 12 VDC,
Connectors	The EUT has 4 connectors. The Antenna port is N Type. The Power port is a Kycon KPJ-3S connector. The 10/100 BaseT connector is a RJ-48 Jack. The Serial port is a DB9 connector.
Serial Number	BATA 1

Annex A

AC Mains Conducted Emissions

Test method and Setup

Equipment used

- LISN

Fischer Custom Communications Inc.

P/N FCC-LISN-50-25-2-01

S/N 01019

- Spectrum Analyzer

Anritu Corp

P/N MS2668C

S/N 6200081100

Test Method

The AC mains conducted emissions test was performed according to the methods set out in IEEE ANSI C63.4 2000.

Test Results: PASS

Pages 5 and 6 contain the test result for the AC mains conducted emissions test.



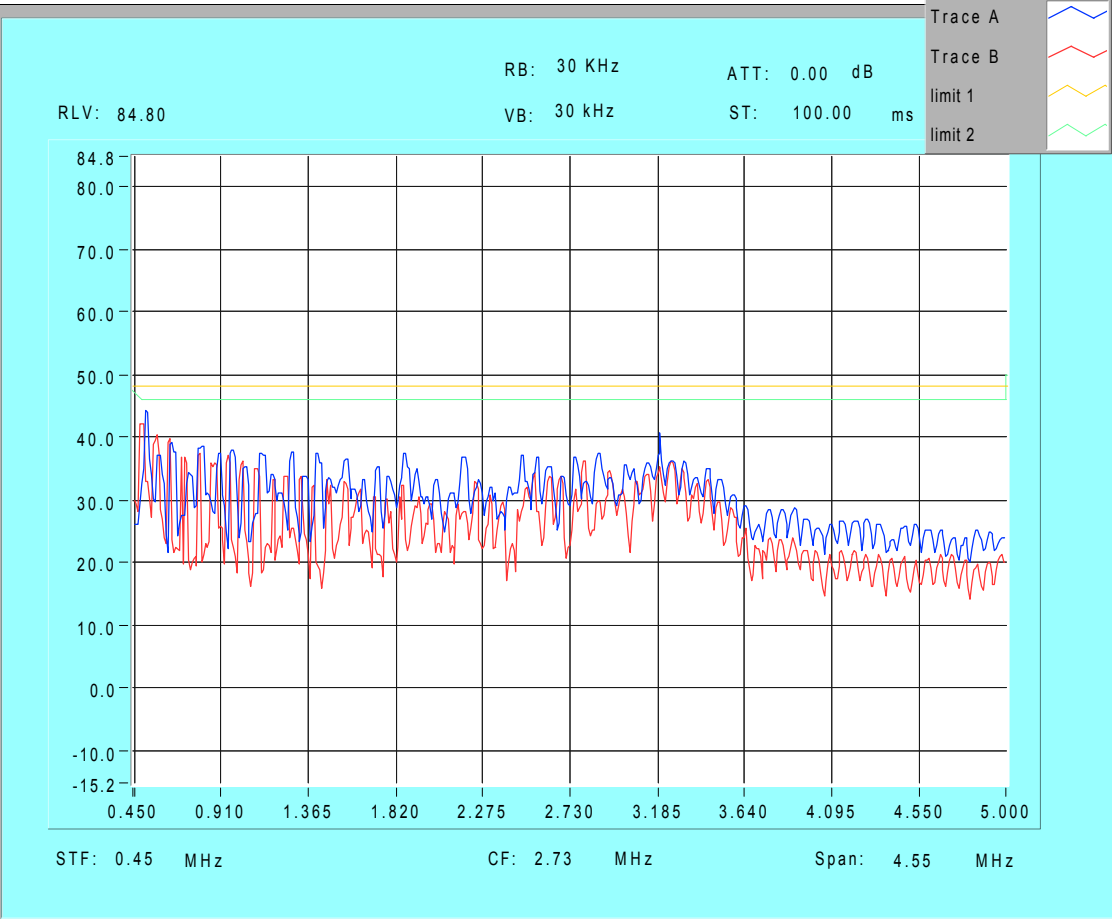
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Wi-LAN AWE 120-24 Rev 2
Conducted Emissions

Brown = FCC Class B
Green = CIRPR Class B

Blue = Neutral Lead
Red = Hot Lead



- PRINT
- GET TRACE
- TRACE A
- TRACE B
- Limit 1
- Limit 2
- Save Raw Data

Factor A

5	10	.21
0	20	.19
	30	.34



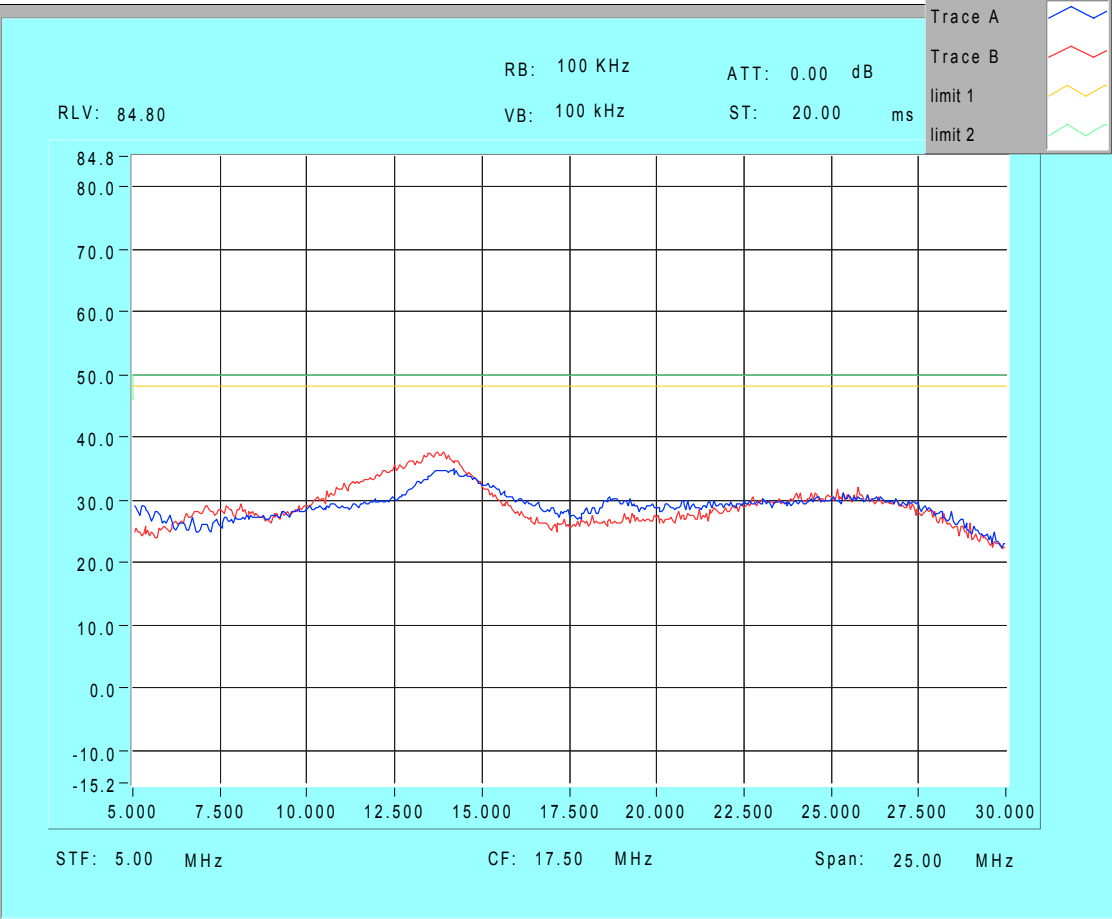
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Wi-LAN AWE 120-24 Rev 2
Conducted Emissions

Brown = FCC Class B
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Blue = Neutral Lead
Red = Hot Lead



PRINT
 GET TRACE
 TRACE A
 TRACE B
 Limit 1
 Limit 2
 Save Raw Data

Factor A

5	10	.21
0	20	.19
	30	.34

Annex B

Peak Output Power

Test method and Setup

- Power Meter
Agilent
P/N E4418B
S/N GB39512963

Test Method

The peak output power test was performed according to the methods set out in FCC 97-114

Step 1 – The antenna port was connected to the Power Meter through the detector.

Step 2 – The peak output power was measured with the power meter and recorded as P

Test Results: PASS

Low Channel
P = 18.59 dBm

High Channel
P = 18.90 dBm

Mid Channel
P = 19.3 dBm

Annex C

Peak Output Power

Test method and Setup

- Power Meter
Agilent
P/N E4418B
S/N GB39512963

Test Method
FCC 97-114

Test Results: PASS

Point-to-Point (G = 27 dBi)

Low channel	Mid Channel	High Channel
P = 18.59	P = 19.3 dBm	P = 18.9 dBm
E.I.R.P.	E.I.R.P.	E.I.R.P.
= 18.59 dBm + 27 dBi	= 19.30 dBm + 27 dBi	= 18.9 dBm + 27 dBi
= 45.59 dBm e.i.r.p.	= 46.3 dBm e.i.r.p.	= 45.90 dBm e.i.r.p.

Point-to-Multipoint (G = 18.5 dBi (antenna gain) - 3.5 dB (cable loss) = 15 dBi (net gain))

Low channel	Mid Channel	High Channel
P = 18.59	P = 19.3 dBm	P = 18.9 dBm
E.I.R.P.	E.I.R.P.	E.I.R.P.
= 18.59dBm + 15dBi	= 19.3 dBm + 15 dBi	= 18.9 dBm + 15 dBi
= 33.59 e.i.r.p.	= 34.3 dBm e.i.r.p.	= 33.9 dBm e.i.r.p.

Multipoint-to-Multipoint (G = 12 dBi)

Low channel	Mid Channel	High Channel
P = 18.59	P = 19.3 dBm	P = 18.9 dBm
E.I.R.P.	E.I.R.P.	E.I.R.P.
= 18.59 dBm + 15 dBi	= 19.3 dBm + 15 dBi	= 18.9 dBm + 15 dBi
= 33.59 dBm e.i.r.p.	= 34.3 dBm e.i.r.p.	= 33.9 dBm e.i.r.p.

Annex D

Maximum Permissible Exposure

Peak Transmitter Output Power: **100mW (20dBm)**
Center Channel Frequency Range: **2.4258 - 2.4542 GHz**

Transmitter Type Classification: ☐ Portable ☒ Mobile
(Mobile apparatus defined as being at least
20cm away from human body)

Equipment Exemption: ☐ Yes ☒ No
(Mobile above 1.5GHz < 3W ERP)

Power Density Calculation for Large Antenna General Public RF Exposure:

Max. Antenna Gain: **27dBi, 1.2m Dish**

Far-Field (Large Antenna, $0.6D^2/\lambda$):
$$W = P_T G / 4\pi r^2$$
$$= (100\text{mW})(501.2) / 4\pi (7.02\text{m})^2$$
$$= 0.081\text{W/m}^2 \text{ @ } 7.02\text{m}$$

Antenna Surface (Large Antenna):
$$W = 4P_T / A$$
$$= 4(100\text{mW}) / \pi (1.2\text{m}/2)^2$$
$$= 0.354\text{W/m}^2$$

47 CFR §1.1310 General Public/Uncontrolled Exposure Limit (1.5-100GHz): 1mW/cm^2
(10W/m^2)

The aforementioned equipment and antenna has been evaluated and found to comply with the MPE limits, as specified in 47 CFR §1.1310 for the general public and uncontrolled conditions, using the guidelines found in FCC OET Bulletin 65.

Annex E

Spectral Density

Test method and Setup

Equipment used
- Spectrum Analyzer
Anritu Corp
P/N MS2668C
S/N 6200081100

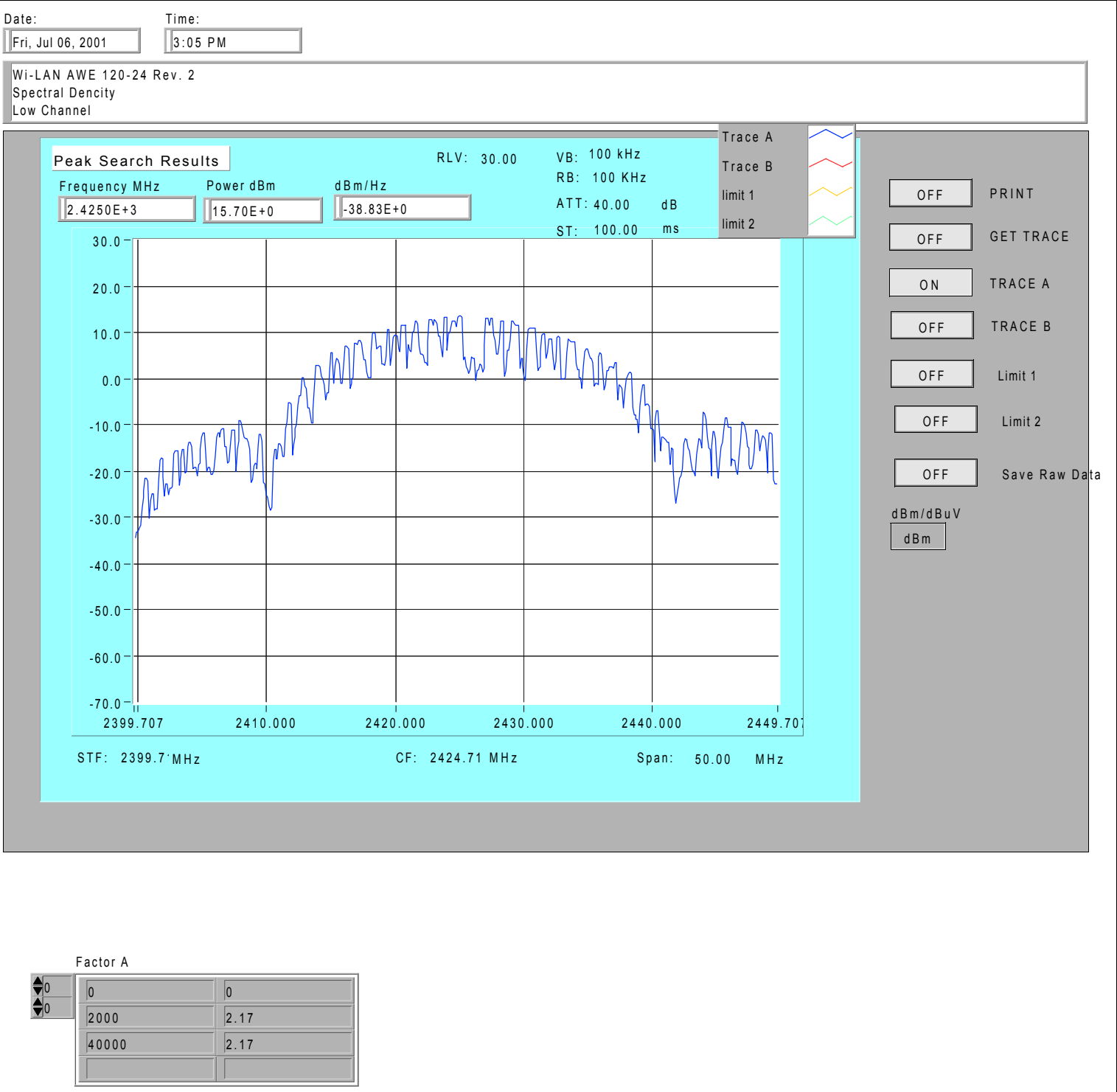
Test Method

The Spectral density test was performed according to the methods set out in FCC Docket FCC 97-114 Appendix C.

Test Results: PASS

Pages 11 and 13 contain the test result for the spectral density test.

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Factor A

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2000

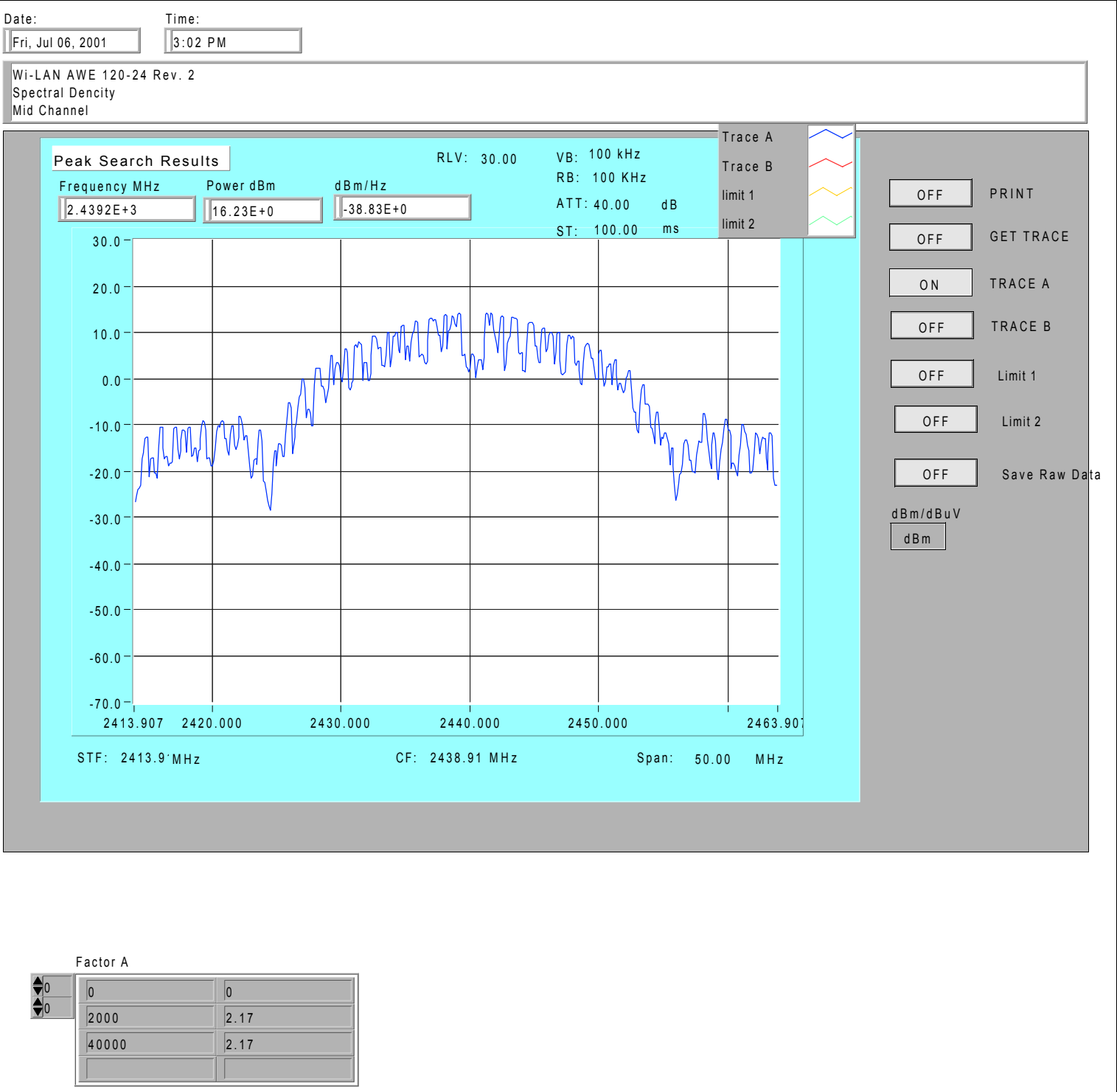
40000

0

2.17

2.17

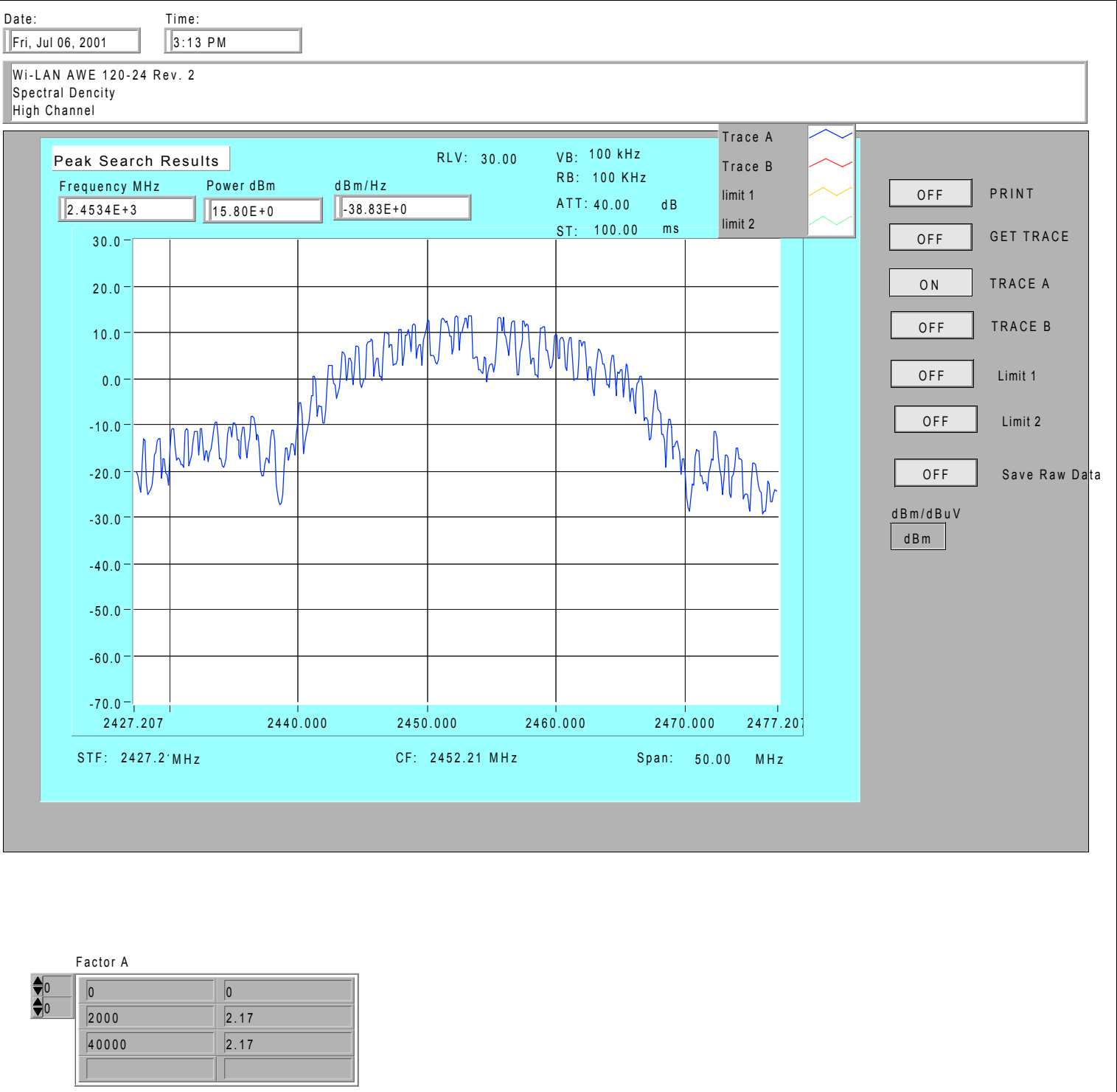
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Factor A

0	0
2000	2.17
40000	2.17

emissions test (limit).vi
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Factor A

0	0
2000	2.17
40000	2.17

Annex F

Processing Gain

Reference: CFR 47 Part 15, Subpart C, Section 15.247(e)(2)
RSS-139 Annex B Section 4.2

Method of Measurement

- The CW (continuous wave) jamming margin method was used to determine the Processing Gain.
- $G_p = SNR_o + J/S + L_{sys}$
- Where: **SNR_o** = 19.5 dB (This is the theoretical Signal-to-Noise Ratio for a BPSK/QPSK Receiver with 8-bits/symbol yielding a BER = 1×10^{-6}).
J/S = J(dBm) - S(dBm) (the Jammer to Signal ratio).
L_{sys} = 2dB (Maximum allowable total System Losses including transmitter and receiver).
- The CW Jammer was stepped in 50 kHz increments across the 33 MHz bandwidth of the DSSS signal. A total of 660 measurement points were taken and recorded on the spreadsheet. The J/S ratio was computed for each point. After discarding the worst 20% of the J/S points recorded the final Processing Gain Figure was determined using the lowest remaining value of J/S.
- Initial Receiver conditions:

Channel Bandwidth: 2440 MHz $\pm$ 16.5 MHz
RSSI = -40 to -50 dBm
Receiver Output BER = 0.0×10^{-6}
- Figure 1 illustrates the equipment set-up for measuring the Jammer and Signal levels and measuring the BER.

The table starting on page 3 shows the test results. The yellow lines are values in the lowest 20%. The Red line is the value at 20%. These are all discarded. The green line is the remaining low value. The Processing Gain is 11.76 dB (PASS).

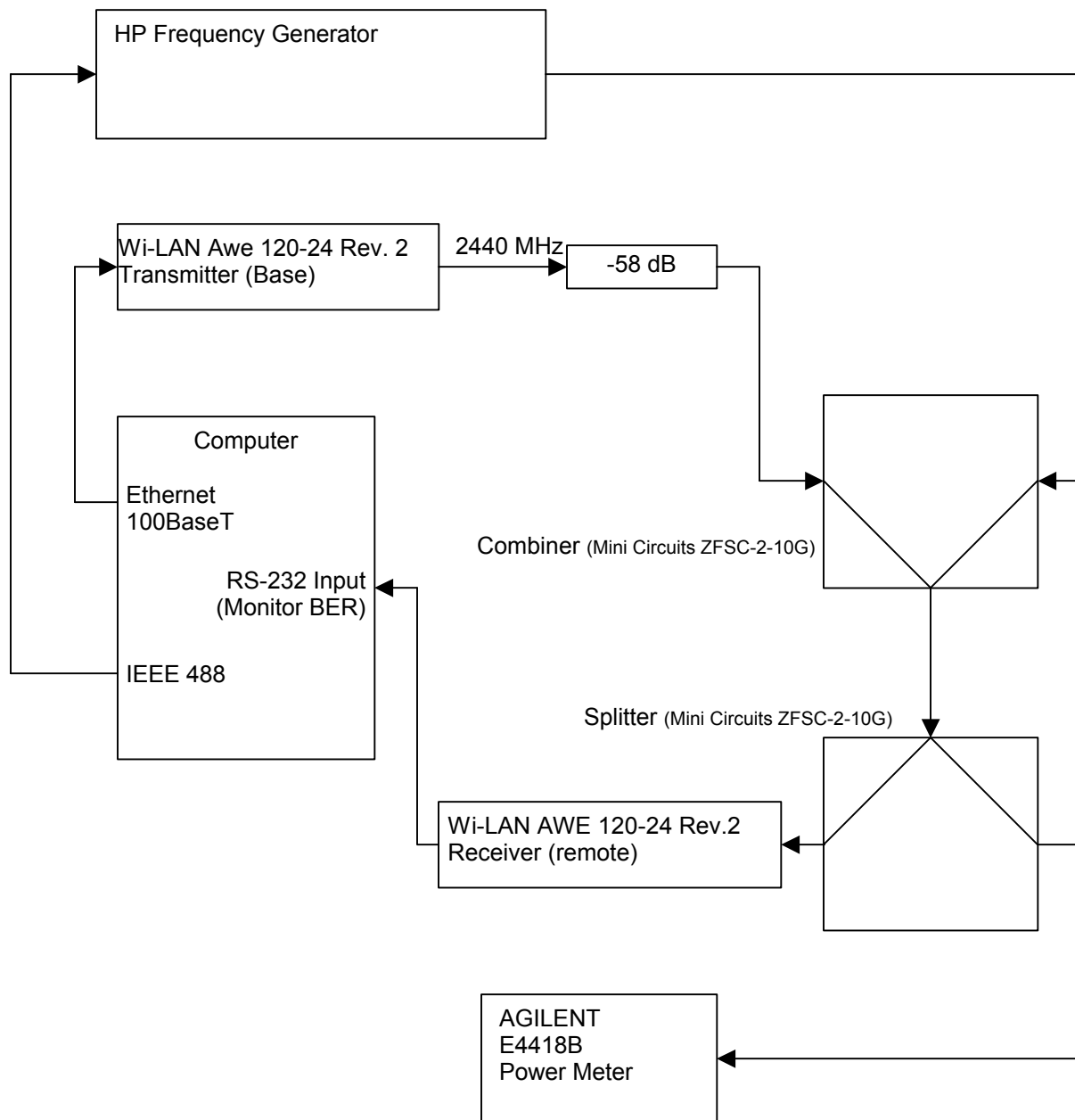


Figure 1: Equipment Set-Up For Measuring Processing Gain

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2423.5	-43	-45.12	19.5	2	-48.88	25.26
2423.55	-43.75	-45.87	19.5	2	-48.88	24.51
2423.6	-43	-45.12	19.5	2	-48.88	25.26
2423.65	-44.25	-46.37	19.5	2	-48.88	24.01
2423.7	-44	-46.12	19.5	2	-48.88	24.26
2423.75	-45	-47.12	19.5	2	-48.88	23.26
2423.8	-45.75	-47.87	19.5	2	-48.88	22.51
2423.85	-46.5	-48.62	19.5	2	-48.88	21.76
2423.9	-47.5	-49.62	19.5	2	-48.88	20.76
2423.95	-48.5	-50.62	19.5	2	-48.88	19.76
2424	-48.5	-50.62	19.5	2	-48.88	19.76
2424.05	-49.5	-51.62	19.5	2	-48.88	18.76
2424.1	-49.75	-51.87	19.5	2	-48.88	18.51
2424.15	-50.75	-52.87	19.5	2	-48.88	17.51
2424.2	-50.75	-52.87	19.5	2	-48.88	17.51
2424.25	-51	-53.12	19.5	2	-48.88	17.26
2424.3	-51.5	-53.62	19.5	2	-48.88	16.76
2424.35	-52.25	-54.37	19.5	2	-48.88	16.01
2424.4	-52.75	-54.87	19.5	2	-48.88	15.51
2424.45	-53	-55.12	19.5	2	-48.88	15.26
2424.5	-53.5	-55.62	19.5	2	-48.88	14.76
2424.55	-53.75	-55.87	19.5	2	-48.88	14.51
2424.6	-53.75	-55.87	19.5	2	-48.88	14.51
2424.65	-54	-56.12	19.5	2	-48.88	14.26
2424.7	-54.25	-56.37	19.5	2	-48.88	14.01
2424.75	-53.75	-55.87	19.5	2	-48.88	14.51
2424.8	-54.5	-56.62	19.5	2	-48.88	13.76
2424.85	-54.25	-56.37	19.5	2	-48.88	14.01
2424.9	-54.75	-56.87	19.5	2	-48.88	13.51
2424.95	-55	-57.12	19.5	2	-48.88	13.26
2425	-54.5	-56.62	19.5	2	-48.88	13.76
2425.05	-55.25	-57.37	19.5	2	-48.88	13.01
2425.1	-55	-57.12	19.5	2	-48.88	13.26
2425.15	-54.75	-56.87	19.5	2	-48.88	13.51
2425.2	-54.5	-56.62	19.5	2	-48.88	13.76
2425.25	-55	-57.12	19.5	2	-48.88	13.26
2425.3	-55.75	-57.87	19.5	2	-48.88	12.51
2425.35	-55.25	-57.37	19.5	2	-48.88	13.01
2425.4	-54.75	-56.87	19.5	2	-48.88	13.51
2425.45	-55	-57.12	19.5	2	-48.88	13.26
2425.5	-54.75	-56.87	19.5	2	-48.88	13.51
2425.55	-55.5	-57.62	19.5	2	-48.88	12.76
2425.6	-55.5	-57.62	19.5	2	-48.88	12.76
2425.65	-55.25	-57.37	19.5	2	-48.88	13.01
2425.7	-55	-57.12	19.5	2	-48.88	13.26
2425.75	-55	-57.12	19.5	2	-48.88	13.26
2425.8	-55.25	-57.37	19.5	2	-48.88	13.01
2425.85	-56.25	-58.37	19.5	2	-48.88	12.01

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2425.9	-55.75	-57.87	19.5	2	-48.88	12.51
2425.95	-55.25	-57.37	19.5	2	-48.88	13.01
2426	-55.25	-57.37	19.5	2	-48.88	13.01
2426.05	-55.5	-57.62	19.5	2	-48.88	12.76
2426.1	-55.75	-57.87	19.5	2	-48.88	12.51
2426.15	-55.75	-57.87	19.5	2	-48.88	12.51
2426.2	-55.25	-57.37	19.5	2	-48.88	13.01
2426.25	-55.5	-57.62	19.5	2	-48.88	12.76
2426.3	-55.25	-57.37	19.5	2	-48.88	13.01
2426.35	-55.75	-57.87	19.5	2	-48.88	12.51
2426.4	-56.25	-58.37	19.5	2	-48.88	12.01
2426.45	-55.5	-57.62	19.5	2	-48.88	12.76
2426.5	-55.25	-57.37	19.5	2	-48.88	13.01
2426.55	-56.5	-58.62	19.5	2	-48.88	11.76
2426.6	-55.75	-57.87	19.5	2	-48.88	12.51
2426.65	-57	-59.12	19.5	2	-48.88	11.26
2426.7	-57.25	-59.37	19.5	2	-48.88	11.01
2426.75	-57	-59.12	19.5	2	-48.88	11.26
2426.8	-56.25	-58.37	19.5	2	-48.88	12.01
2426.85	-57.5	-59.62	19.5	2	-48.88	10.76
2426.9	-57	-59.12	19.5	2	-48.88	11.26
2426.95	-56.75	-58.87	19.5	2	-48.88	11.51
2427	-57	-59.12	19.5	2	-48.88	11.26
2427.05	-57	-59.12	19.5	2	-48.88	11.26
2427.1	-57.75	-59.87	19.5	2	-48.88	10.51
2427.15	-57	-59.12	19.5	2	-48.88	11.26
2427.2	-57.75	-59.87	19.5	2	-48.88	10.51
2427.25	-57.25	-59.37	19.5	2	-48.88	11.01
2427.3	-57.75	-59.87	19.5	2	-48.88	10.51
2427.35	-57	-59.12	19.5	2	-48.88	11.26
2427.4	-57.25	-59.37	19.5	2	-48.88	11.01
2427.45	-57.5	-59.62	19.5	2	-48.88	10.76
2427.5	-58	-60.12	19.5	2	-48.88	10.26
2427.55	-57.25	-59.37	19.5	2	-48.88	11.01
2427.6	-57.25	-59.37	19.5	2	-48.88	11.01
2427.65	-57.25	-59.37	19.5	2	-48.88	11.01
2427.7	-57.5	-59.62	19.5	2	-48.88	10.76
2427.75	-57.5	-59.62	19.5	2	-48.88	10.76
2427.8	-58.25	-60.37	19.5	2	-48.88	10.01
2427.85	-57	-59.12	19.5	2	-48.88	11.26
2427.9	-57.25	-59.37	19.5	2	-48.88	11.01
2427.95	-57.25	-59.37	19.5	2	-48.88	11.01
2428	-57.75	-59.87	19.5	2	-48.88	10.51
2428.05	-56.5	-58.62	19.5	2	-48.88	11.76
2428.1	-56.75	-58.87	19.5	2	-48.88	11.51
2428.15	-57.25	-59.37	19.5	2	-48.88	11.01
2428.2	-56.25	-58.37	19.5	2	-48.88	12.01
2428.25	-55.5	-57.62	19.5	2	-48.88	12.76

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2428.3	-56.75	-58.87	19.5	2	-48.88	11.51
2428.35	-55.75	-57.87	19.5	2	-48.88	12.51
2428.4	-55.5	-57.62	19.5	2	-48.88	12.76
2428.45	-57.25	-59.37	19.5	2	-48.88	11.01
2428.5	-57.25	-59.37	19.5	2	-48.88	11.01
2428.55	-55.5	-57.62	19.5	2	-48.88	12.76
2428.6	-56.75	-58.87	19.5	2	-48.88	11.51
2428.65	-55.5	-57.62	19.5	2	-48.88	12.76
2428.7	-55.25	-57.37	19.5	2	-48.88	13.01
2428.75	-57	-59.12	19.5	2	-48.88	11.26
2428.8	-55.75	-57.87	19.5	2	-48.88	12.51
2428.85	-55.5	-57.62	19.5	2	-48.88	12.76
2428.9	-56.25	-58.37	19.5	2	-48.88	12.01
2428.95	-55.75	-57.87	19.5	2	-48.88	12.51
2429	-55.5	-57.62	19.5	2	-48.88	12.76
2429.05	-55.75	-57.87	19.5	2	-48.88	12.51
2429.1	-56.75	-58.87	19.5	2	-48.88	11.51
2429.15	-56	-58.12	19.5	2	-48.88	12.26
2429.2	-55.75	-57.87	19.5	2	-48.88	12.51
2429.25	-56.5	-58.62	19.5	2	-48.88	11.76
2429.3	-56.5	-58.62	19.5	2	-48.88	11.76
2429.35	-56.5	-58.62	19.5	2	-48.88	11.76
2429.4	-56	-58.12	19.5	2	-48.88	12.26
2429.45	-56.25	-58.37	19.5	2	-48.88	12.01
2429.5	-55.75	-57.87	19.5	2	-48.88	12.51
2429.55	-56.75	-58.87	19.5	2	-48.88	11.51
2429.6	-56.5	-58.62	19.5	2	-48.88	11.76
2429.65	-55.75	-57.87	19.5	2	-48.88	12.51
2429.7	-56.75	-58.87	19.5	2	-48.88	11.51
2429.75	-56.5	-58.62	19.5	2	-48.88	11.76
2429.8	-56.5	-58.62	19.5	2	-48.88	11.76
2429.85	-57	-59.12	19.5	2	-48.88	11.26
2429.9	-57.5	-59.62	19.5	2	-48.88	10.76
2429.95	-57	-59.12	19.5	2	-48.88	11.26
2430	-57	-59.12	19.5	2	-48.88	11.26
2430.05	-57	-59.12	19.5	2	-48.88	11.26
2430.1	-57	-59.12	19.5	2	-48.88	11.26
2430.15	-57.25	-59.37	19.5	2	-48.88	11.01
2430.2	-57	-59.12	19.5	2	-48.88	11.26
2430.25	-57.75	-59.87	19.5	2	-48.88	10.51
2430.3	-57.5	-59.62	19.5	2	-48.88	10.76
2430.35	-56.5	-58.62	19.5	2	-48.88	11.76
2430.4	-57	-59.12	19.5	2	-48.88	11.26
2430.45	-56.75	-58.87	19.5	2	-48.88	11.51
2430.5	-57	-59.12	19.5	2	-48.88	11.26
2430.55	-56.25	-58.37	19.5	2	-48.88	12.01
2430.6	-57.5	-59.62	19.5	2	-48.88	10.76
2430.65	-57.5	-59.62	19.5	2	-48.88	10.76

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2430.7	-57.25	-59.37	19.5	2	-48.88	11.01
2430.75	-56.25	-58.37	19.5	2	-48.88	12.01
2430.8	-57	-59.12	19.5	2	-48.88	11.26
2430.85	-55.75	-57.87	19.5	2	-48.88	12.51
2430.9	-56	-58.12	19.5	2	-48.88	12.26
2430.95	-56.5	-58.62	19.5	2	-48.88	11.76
2431	-55.75	-57.87	19.5	2	-48.88	12.51
2431.05	-55.5	-57.62	19.5	2	-48.88	12.76
2431.1	-55.75	-57.87	19.5	2	-48.88	12.51
2431.15	-56.25	-58.37	19.5	2	-48.88	12.01
2431.2	-55.25	-57.37	19.5	2	-48.88	13.01
2431.25	-55	-57.12	19.5	2	-48.88	13.26
2431.3	-56.25	-58.37	19.5	2	-48.88	12.01
2431.35	-56.25	-58.37	19.5	2	-48.88	12.01
2431.4	-55.5	-57.62	19.5	2	-48.88	12.76
2431.45	-55.75	-57.87	19.5	2	-48.88	12.51
2431.5	-57	-59.12	19.5	2	-48.88	11.26
2431.55	-56.5	-58.62	19.5	2	-48.88	11.76
2431.6	-55.75	-57.87	19.5	2	-48.88	12.51
2431.65	-55.5	-57.62	19.5	2	-48.88	12.76
2431.7	-56.5	-58.62	19.5	2	-48.88	11.76
2431.75	-55.75	-57.87	19.5	2	-48.88	12.51
2431.8	-55.75	-57.87	19.5	2	-48.88	12.51
2431.85	-56.25	-58.37	19.5	2	-48.88	12.01
2431.9	-56.25	-58.37	19.5	2	-48.88	12.01
2431.95	-55.25	-57.37	19.5	2	-48.88	13.01
2432	-55.5	-57.62	19.5	2	-48.88	12.76
2432.05	-56.5	-58.62	19.5	2	-48.88	11.76
2432.1	-55.75	-57.87	19.5	2	-48.88	12.51
2432.15	-55.75	-57.87	19.5	2	-48.88	12.51
2432.2	-55.75	-57.87	19.5	2	-48.88	12.51
2432.25	-56.25	-58.37	19.5	2	-48.88	12.01
2432.3	-55	-57.12	19.5	2	-48.88	13.26
2432.35	-55.5	-57.62	19.5	2	-48.88	12.76
2432.4	-56.25	-58.37	19.5	2	-48.88	12.01
2432.45	-56	-58.12	19.5	2	-48.88	12.26
2432.5	-55.75	-57.87	19.5	2	-48.88	12.51
2432.55	-56	-58.12	19.5	2	-48.88	12.26
2432.6	-56.25	-58.37	19.5	2	-48.88	12.01
2432.65	-56.75	-58.87	19.5	2	-48.88	11.51
2432.7	-56.75	-58.87	19.5	2	-48.88	11.51
2432.75	-57.5	-59.62	19.5	2	-48.88	10.76
2432.8	-57.25	-59.37	19.5	2	-48.88	11.01
2432.85	-57	-59.12	19.5	2	-48.88	11.26
2432.9	-58.25	-60.37	19.5	2	-48.88	10.01
2432.95	-57	-59.12	19.5	2	-48.88	11.26
2433	-57.75	-59.87	19.5	2	-48.88	10.51
2433.05	-58.25	-60.37	19.5	2	-48.88	10.01

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2433.1	-57.75	-59.87	19.5	2	-48.88	10.51
2433.15	-57.25	-59.37	19.5	2	-48.88	11.01
2433.2	-57.75	-59.87	19.5	2	-48.88	10.51
2433.25	-57.25	-59.37	19.5	2	-48.88	11.01
2433.3	-57.5	-59.62	19.5	2	-48.88	10.76
2433.35	-56.75	-58.87	19.5	2	-48.88	11.51
2433.4	-57.75	-59.87	19.5	2	-48.88	10.51
2433.45	-58	-60.12	19.5	2	-48.88	10.26
2433.5	-57.5	-59.62	19.5	2	-48.88	10.76
2433.55	-57.75	-59.87	19.5	2	-48.88	10.51
2433.6	-57.25	-59.37	19.5	2	-48.88	11.01
2433.65	-57.25	-59.37	19.5	2	-48.88	11.01
2433.7	-58	-60.12	19.5	2	-48.88	10.26
2433.75	-57.25	-59.37	19.5	2	-48.88	11.01
2433.8	-57	-59.12	19.5	2	-48.88	11.26
2433.85	-57	-59.12	19.5	2	-48.88	11.26
2433.9	-56.75	-58.87	19.5	2	-48.88	11.51
2433.95	-56.25	-58.37	19.5	2	-48.88	12.01
2434	-56.75	-58.87	19.5	2	-48.88	11.51
2434.05	-56.5	-58.62	19.5	2	-48.88	11.76
2434.1	-55.75	-57.87	19.5	2	-48.88	12.51
2434.15	-57	-59.12	19.5	2	-48.88	11.26
2434.2	-57.5	-59.62	19.5	2	-48.88	10.76
2434.25	-57.25	-59.37	19.5	2	-48.88	11.01
2434.3	-56.75	-58.87	19.5	2	-48.88	11.51
2434.35	-56	-58.12	19.5	2	-48.88	12.26
2434.4	-55.75	-57.87	19.5	2	-48.88	12.51
2434.45	-56.5	-58.62	19.5	2	-48.88	11.76
2434.5	-57.5	-59.62	19.5	2	-48.88	10.76
2434.55	-57.75	-59.87	19.5	2	-48.88	10.51
2434.6	-56.75	-58.87	19.5	2	-48.88	11.51
2434.65	-56.75	-58.87	19.5	2	-48.88	11.51
2434.7	-55.75	-57.87	19.5	2	-48.88	12.51
2434.75	-56.25	-58.37	19.5	2	-48.88	12.01
2434.8	-56.75	-58.87	19.5	2	-48.88	11.51
2434.85	-55.5	-57.62	19.5	2	-48.88	12.76
2434.9	-55.75	-57.87	19.5	2	-48.88	12.51
2434.95	-56.5	-58.62	19.5	2	-48.88	11.76
2435	-55.75	-57.87	19.5	2	-48.88	12.51
2435.05	-55.5	-57.62	19.5	2	-48.88	12.76
2435.1	-56.5	-58.62	19.5	2	-48.88	11.76
2435.15	-55.25	-57.37	19.5	2	-48.88	13.01
2435.2	-55.25	-57.37	19.5	2	-48.88	13.01
2435.25	-55.75	-57.87	19.5	2	-48.88	12.51
2435.3	-55.25	-57.37	19.5	2	-48.88	13.01
2435.35	-55.25	-57.37	19.5	2	-48.88	13.01
2435.4	-55.5	-57.62	19.5	2	-48.88	12.76
2435.45	-55.25	-57.37	19.5	2	-48.88	13.01

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2435.5	-55	-57.12	19.5	2	-48.88	13.26
2435.55	-55.25	-57.37	19.5	2	-48.88	13.01
2435.6	-55.5	-57.62	19.5	2	-48.88	12.76
2435.65	-55.5	-57.62	19.5	2	-48.88	12.76
2435.7	-55.5	-57.62	19.5	2	-48.88	12.76
2435.75	-56	-58.12	19.5	2	-48.88	12.26
2435.8	-56.5	-58.62	19.5	2	-48.88	11.76
2435.85	-55.25	-57.37	19.5	2	-48.88	13.01
2435.9	-55.75	-57.87	19.5	2	-48.88	12.51
2435.95	-55.75	-57.87	19.5	2	-48.88	12.51
2436	-55.25	-57.37	19.5	2	-48.88	13.01
2436.05	-55.75	-57.87	19.5	2	-48.88	12.51
2436.1	-55.5	-57.62	19.5	2	-48.88	12.76
2436.15	-55.75	-57.87	19.5	2	-48.88	12.51
2436.2	-56	-58.12	19.5	2	-48.88	12.26
2436.25	-56.25	-58.37	19.5	2	-48.88	12.01
2436.3	-56.75	-58.87	19.5	2	-48.88	11.51
2436.35	-56.5	-58.62	19.5	2	-48.88	11.76
2436.4	-55.5	-57.62	19.5	2	-48.88	12.76
2436.45	-55.75	-57.87	19.5	2	-48.88	12.51
2436.5	-55.75	-57.87	19.5	2	-48.88	12.51
2436.55	-55	-57.12	19.5	2	-48.88	13.26
2436.6	-54.5	-56.62	19.5	2	-48.88	13.76
2436.65	-55.5	-57.62	19.5	2	-48.88	12.76
2436.7	-55.25	-57.37	19.5	2	-48.88	13.01
2436.75	-55.25	-57.37	19.5	2	-48.88	13.01
2436.8	-55.75	-57.87	19.5	2	-48.88	12.51
2436.85	-55.25	-57.37	19.5	2	-48.88	13.01
2436.9	-54.25	-56.37	19.5	2	-48.88	14.01
2436.95	-54.25	-56.37	19.5	2	-48.88	14.01
2437	-55.75	-57.87	19.5	2	-48.88	12.51
2437.05	-54.75	-56.87	19.5	2	-48.88	13.51
2437.1	-54	-56.12	19.5	2	-48.88	14.26
2437.15	-55.75	-57.87	19.5	2	-48.88	12.51
2437.2	-54.5	-56.62	19.5	2	-48.88	13.76
2437.25	-54.25	-56.37	19.5	2	-48.88	14.01
2437.3	-54.75	-56.87	19.5	2	-48.88	13.51
2437.35	-54.5	-56.62	19.5	2	-48.88	13.76
2437.4	-54.75	-56.87	19.5	2	-48.88	13.51
2437.45	-54.75	-56.87	19.5	2	-48.88	13.51
2437.5	-54.5	-56.62	19.5	2	-48.88	13.76
2437.55	-55.25	-57.37	19.5	2	-48.88	13.01
2437.6	-55.25	-57.37	19.5	2	-48.88	13.01
2437.65	-54.75	-56.87	19.5	2	-48.88	13.51
2437.7	-55	-57.12	19.5	2	-48.88	13.26
2437.75	-55	-57.12	19.5	2	-48.88	13.26
2437.8	-55.25	-57.37	19.5	2	-48.88	13.01
2437.85	-55.5	-57.62	19.5	2	-48.88	12.76

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2437.9	-55.25	-57.37	19.5	2	-48.88	13.01
2437.95	-55.25	-57.37	19.5	2	-48.88	13.01
2438	-54.75	-56.87	19.5	2	-48.88	13.51
2438.05	-55	-57.12	19.5	2	-48.88	13.26
2438.1	-54.75	-56.87	19.5	2	-48.88	13.51
2438.15	-54.75	-56.87	19.5	2	-48.88	13.51
2438.2	-54.5	-56.62	19.5	2	-48.88	13.76
2438.25	-54.5	-56.62	19.5	2	-48.88	13.76
2438.3	-54.75	-56.87	19.5	2	-48.88	13.51
2438.35	-54	-56.12	19.5	2	-48.88	14.26
2438.4	-53.75	-55.87	19.5	2	-48.88	14.51
2438.45	-54.25	-56.37	19.5	2	-48.88	14.01
2438.5	-54.25	-56.37	19.5	2	-48.88	14.01
2438.55	-54.25	-56.37	19.5	2	-48.88	14.01
2438.6	-54.75	-56.87	19.5	2	-48.88	13.51
2438.65	-54.5	-56.62	19.5	2	-48.88	13.76
2438.7	-54.5	-56.62	19.5	2	-48.88	13.76
2438.75	-54.25	-56.37	19.5	2	-48.88	14.01
2438.8	-54	-56.12	19.5	2	-48.88	14.26
2438.85	-54.75	-56.87	19.5	2	-48.88	13.51
2438.9	-54.75	-56.87	19.5	2	-48.88	13.51
2438.95	-54.25	-56.37	19.5	2	-48.88	14.01
2439	-54.75	-56.87	19.5	2	-48.88	13.51
2439.05	-53.75	-55.87	19.5	2	-48.88	14.51
2439.1	-53.75	-55.87	19.5	2	-48.88	14.51
2439.15	-54.5	-56.62	19.5	2	-48.88	13.76
2439.2	-54	-56.12	19.5	2	-48.88	14.26
2439.25	-53.5	-55.62	19.5	2	-48.88	14.76
2439.3	-54.25	-56.37	19.5	2	-48.88	14.01
2439.35	-53.25	-55.37	19.5	2	-48.88	15.01
2439.4	-53	-55.12	19.5	2	-48.88	15.26
2439.45	-53	-55.12	19.5	2	-48.88	15.26
2439.5	-51.75	-53.87	19.5	2	-48.88	16.51
2439.55	-52.5	-54.62	19.5	2	-48.88	15.76
2439.6	-51.75	-53.87	19.5	2	-48.88	16.51
2439.65	-50.5	-52.62	19.5	2	-48.88	17.76
2439.7	-51.75	-53.87	19.5	2	-48.88	16.51
2439.75	-51	-53.12	19.5	2	-48.88	17.26
2439.8	-50	-52.12	19.5	2	-48.88	18.26
2439.85	-50.25	-52.37	19.5	2	-48.88	18.01
2439.9	-49.25	-51.37	19.5	2	-48.88	19.01
2439.95	-46.75	-48.87	19.5	2	-48.88	21.51
2440	-47.25	-49.37	19.5	2	-48.88	21.01
2440.05	-47.75	-49.87	19.5	2	-48.88	20.51
2440.1	-47.75	-49.87	19.5	2	-48.88	20.51
2440.15	-48.25	-50.37	19.5	2	-48.88	20.01
2440.2	-48	-50.12	19.5	2	-48.88	20.26
2440.25	-49.75	-51.87	19.5	2	-48.88	18.51

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2440.3	-51.25	-53.37	19.5	2	-48.88	17.01
2440.35	-50.25	-52.37	19.5	2	-48.88	18.01
2440.4	-51.25	-53.37	19.5	2	-48.88	17.01
2440.45	-52	-54.12	19.5	2	-48.88	16.26
2440.5	-51.75	-53.87	19.5	2	-48.88	16.51
2440.55	-52.75	-54.87	19.5	2	-48.88	15.51
2440.6	-52.75	-54.87	19.5	2	-48.88	15.51
2440.65	-53.25	-55.37	19.5	2	-48.88	15.01
2440.7	-53.5	-55.62	19.5	2	-48.88	14.76
2440.75	-53.5	-55.62	19.5	2	-48.88	14.76
2440.8	-53.25	-55.37	19.5	2	-48.88	15.01
2440.85	-54	-56.12	19.5	2	-48.88	14.26
2440.9	-54	-56.12	19.5	2	-48.88	14.26
2440.95	-54	-56.12	19.5	2	-48.88	14.26
2441	-54	-56.12	19.5	2	-48.88	14.26
2441.05	-54.25	-56.37	19.5	2	-48.88	14.01
2441.1	-54.75	-56.87	19.5	2	-48.88	13.51
2441.15	-54.25	-56.37	19.5	2	-48.88	14.01
2441.2	-54	-56.12	19.5	2	-48.88	14.26
2441.25	-54.75	-56.87	19.5	2	-48.88	13.51
2441.3	-54.25	-56.37	19.5	2	-48.88	14.01
2441.35	-55	-57.12	19.5	2	-48.88	13.26
2441.4	-55.25	-57.37	19.5	2	-48.88	13.01
2441.45	-54.5	-56.62	19.5	2	-48.88	13.76
2441.5	-54.75	-56.87	19.5	2	-48.88	13.51
2441.55	-55	-57.12	19.5	2	-48.88	13.26
2441.6	-54.75	-56.87	19.5	2	-48.88	13.51
2441.65	-54.25	-56.37	19.5	2	-48.88	14.01
2441.7	-55.25	-57.37	19.5	2	-48.88	13.01
2441.75	-55.25	-57.37	19.5	2	-48.88	13.01
2441.8	-55.5	-57.62	19.5	2	-48.88	12.76
2441.85	-54.75	-56.87	19.5	2	-48.88	13.51
2441.9	-56	-58.12	19.5	2	-48.88	12.26
2441.95	-55.75	-57.87	19.5	2	-48.88	12.51
2442	-55.25	-57.37	19.5	2	-48.88	13.01
2442.05	-55.75	-57.87	19.5	2	-48.88	12.51
2442.1	-55.75	-57.87	19.5	2	-48.88	12.51
2442.15	-56.25	-58.37	19.5	2	-48.88	12.01
2442.2	-56.5	-58.62	19.5	2	-48.88	11.76
2442.25	-56.25	-58.37	19.5	2	-48.88	12.01
2442.3	-55.75	-57.87	19.5	2	-48.88	12.51
2442.35	-55.5	-57.62	19.5	2	-48.88	12.76
2442.4	-55.5	-57.62	19.5	2	-48.88	12.76
2442.45	-55.75	-57.87	19.5	2	-48.88	12.51
2442.5	-55.75	-57.87	19.5	2	-48.88	12.51
2442.55	-56.25	-58.37	19.5	2	-48.88	12.01
2442.6	-55.5	-57.62	19.5	2	-48.88	12.76
2442.65	-55	-57.12	19.5	2	-48.88	13.26

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2442.7	-55	-57.12	19.5	2	-48.88	13.26
2442.75	-55	-57.12	19.5	2	-48.88	13.26
2442.8	-55	-57.12	19.5	2	-48.88	13.26
2442.85	-54.75	-56.87	19.5	2	-48.88	13.51
2442.9	-54.25	-56.37	19.5	2	-48.88	14.01
2442.95	-55.25	-57.37	19.5	2	-48.88	13.01
2443	-54.5	-56.62	19.5	2	-48.88	13.76
2443.05	-54.25	-56.37	19.5	2	-48.88	14.01
2443.1	-55	-57.12	19.5	2	-48.88	13.26
2443.15	-55.75	-57.87	19.5	2	-48.88	12.51
2443.2	-54.75	-56.87	19.5	2	-48.88	13.51
2443.25	-55.5	-57.62	19.5	2	-48.88	12.76
2443.3	-55.25	-57.37	19.5	2	-48.88	13.01
2443.35	-54.75	-56.87	19.5	2	-48.88	13.51
2443.4	-54.75	-56.87	19.5	2	-48.88	13.51
2443.45	-54.5	-56.62	19.5	2	-48.88	13.76
2443.5	-55.5	-57.62	19.5	2	-48.88	12.76
2443.55	-55.25	-57.37	19.5	2	-48.88	13.01
2443.6	-55.75	-57.87	19.5	2	-48.88	12.51
2443.65	-55.75	-57.87	19.5	2	-48.88	12.51
2443.7	-55.75	-57.87	19.5	2	-48.88	12.51
2443.75	-55.75	-57.87	19.5	2	-48.88	12.51
2443.8	-56.25	-58.37	19.5	2	-48.88	12.01
2443.85	-55.75	-57.87	19.5	2	-48.88	12.51
2443.9	-56.25	-58.37	19.5	2	-48.88	12.01
2443.95	-55.5	-57.62	19.5	2	-48.88	12.76
2444	-55.75	-57.87	19.5	2	-48.88	12.51
2444.05	-55.25	-57.37	19.5	2	-48.88	13.01
2444.1	-55	-57.12	19.5	2	-48.88	13.26
2444.15	-55.75	-57.87	19.5	2	-48.88	12.51
2444.2	-55	-57.12	19.5	2	-48.88	13.26
2444.25	-56.25	-58.37	19.5	2	-48.88	12.01
2444.3	-55.25	-57.37	19.5	2	-48.88	13.01
2444.35	-55.25	-57.37	19.5	2	-48.88	13.01
2444.4	-56	-58.12	19.5	2	-48.88	12.26
2444.45	-54.5	-56.62	19.5	2	-48.88	13.76
2444.5	-54.75	-56.87	19.5	2	-48.88	13.51
2444.55	-55.5	-57.62	19.5	2	-48.88	12.76
2444.6	-55.25	-57.37	19.5	2	-48.88	13.01
2444.65	-55.75	-57.87	19.5	2	-48.88	12.51
2444.7	-55.5	-57.62	19.5	2	-48.88	12.76
2444.75	-55.25	-57.37	19.5	2	-48.88	13.01
2444.8	-55	-57.12	19.5	2	-48.88	13.26
2444.85	-55.5	-57.62	19.5	2	-48.88	12.76
2444.9	-55.75	-57.87	19.5	2	-48.88	12.51
2444.95	-55.75	-57.87	19.5	2	-48.88	12.51
2445	-55.75	-57.87	19.5	2	-48.88	12.51
2445.05	-56	-58.12	19.5	2	-48.88	12.26

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2445.1	-55.25	-57.37	19.5	2	-48.88	13.01
2445.15	-55	-57.12	19.5	2	-48.88	13.26
2445.2	-55.75	-57.87	19.5	2	-48.88	12.51
2445.25	-54.75	-56.87	19.5	2	-48.88	13.51
2445.3	-55	-57.12	19.5	2	-48.88	13.26
2445.35	-55.5	-57.62	19.5	2	-48.88	12.76
2445.4	-54.5	-56.62	19.5	2	-48.88	13.76
2445.45	-54.75	-56.87	19.5	2	-48.88	13.51
2445.5	-55.25	-57.37	19.5	2	-48.88	13.01
2445.55	-54.5	-56.62	19.5	2	-48.88	13.76
2445.6	-54.5	-56.62	19.5	2	-48.88	13.76
2445.65	-55	-57.12	19.5	2	-48.88	13.26
2445.7	-54.75	-56.87	19.5	2	-48.88	13.51
2445.75	-55	-57.12	19.5	2	-48.88	13.26
2445.8	-55	-57.12	19.5	2	-48.88	13.26
2445.85	-54.25	-56.37	19.5	2	-48.88	14.01
2445.9	-53.75	-55.87	19.5	2	-48.88	14.51
2445.95	-54.75	-56.87	19.5	2	-48.88	13.51
2446	-55.25	-57.37	19.5	2	-48.88	13.01
2446.05	-55.75	-57.87	19.5	2	-48.88	12.51
2446.1	-54.5	-56.62	19.5	2	-48.88	13.76
2446.15	-54	-56.12	19.5	2	-48.88	14.26
2446.2	-55.5	-57.62	19.5	2	-48.88	12.76
2446.25	-55.25	-57.37	19.5	2	-48.88	13.01
2446.3	-55.75	-57.87	19.5	2	-48.88	12.51
2446.35	-55.5	-57.62	19.5	2	-48.88	12.76
2446.4	-56.25	-58.37	19.5	2	-48.88	12.01
2446.45	-55.25	-57.37	19.5	2	-48.88	13.01
2446.5	-55.75	-57.87	19.5	2	-48.88	12.51
2446.55	-55.75	-57.87	19.5	2	-48.88	12.51
2446.6	-56.25	-58.37	19.5	2	-48.88	12.01
2446.65	-56.5	-58.62	19.5	2	-48.88	11.76
2446.7	-57.25	-59.37	19.5	2	-48.88	11.01
2446.75	-57	-59.12	19.5	2	-48.88	11.26
2446.8	-56.5	-58.62	19.5	2	-48.88	11.76
2446.85	-57.5	-59.62	19.5	2	-48.88	10.76
2446.9	-57.25	-59.37	19.5	2	-48.88	11.01
2446.95	-55.25	-57.37	19.5	2	-48.88	13.01
2447	-56.5	-58.62	19.5	2	-48.88	11.76
2447.05	-57	-59.12	19.5	2	-48.88	11.26
2447.1	-57	-59.12	19.5	2	-48.88	11.26
2447.15	-56.5	-58.62	19.5	2	-48.88	11.76
2447.2	-55.5	-57.62	19.5	2	-48.88	12.76
2447.25	-56.25	-58.37	19.5	2	-48.88	12.01
2447.3	-55.75	-57.87	19.5	2	-48.88	12.51
2447.35	-55.25	-57.37	19.5	2	-48.88	13.01
2447.4	-55.75	-57.87	19.5	2	-48.88	12.51
2447.45	-55	-57.12	19.5	2	-48.88	13.26

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2447.5	-54.75	-56.87	19.5	2	-48.88	13.51
2447.55	-55.5	-57.62	19.5	2	-48.88	12.76
2447.6	-54.75	-56.87	19.5	2	-48.88	13.51
2447.65	-54.25	-56.37	19.5	2	-48.88	14.01
2447.7	-54.25	-56.37	19.5	2	-48.88	14.01
2447.75	-53.75	-55.87	19.5	2	-48.88	14.51
2447.8	-53.75	-55.87	19.5	2	-48.88	14.51
2447.85	-54	-56.12	19.5	2	-48.88	14.26
2447.9	-54.25	-56.37	19.5	2	-48.88	14.01
2447.95	-54.5	-56.62	19.5	2	-48.88	13.76
2448	-55	-57.12	19.5	2	-48.88	13.26
2448.05	-55.25	-57.37	19.5	2	-48.88	13.01
2448.1	-55.25	-57.37	19.5	2	-48.88	13.01
2448.15	-55.5	-57.62	19.5	2	-48.88	12.76
2448.2	-55.75	-57.87	19.5	2	-48.88	12.51
2448.25	-54.5	-56.62	19.5	2	-48.88	13.76
2448.3	-55.75	-57.87	19.5	2	-48.88	12.51
2448.35	-55.5	-57.62	19.5	2	-48.88	12.76
2448.4	-54.75	-56.87	19.5	2	-48.88	13.51
2448.45	-55	-57.12	19.5	2	-48.88	13.26
2448.5	-56.25	-58.37	19.5	2	-48.88	12.01
2448.55	-55.25	-57.37	19.5	2	-48.88	13.01
2448.6	-55.5	-57.62	19.5	2	-48.88	12.76
2448.65	-57	-59.12	19.5	2	-48.88	11.26
2448.7	-55.75	-57.87	19.5	2	-48.88	12.51
2448.75	-55.75	-57.87	19.5	2	-48.88	12.51
2448.8	-56	-58.12	19.5	2	-48.88	12.26
2448.85	-56	-58.12	19.5	2	-48.88	12.26
2448.9	-56	-58.12	19.5	2	-48.88	12.26
2448.95	-56.5	-58.62	19.5	2	-48.88	11.76
2449	-55.75	-57.87	19.5	2	-48.88	12.51
2449.05	-55.5	-57.62	19.5	2	-48.88	12.76
2449.1	-56.25	-58.37	19.5	2	-48.88	12.01
2449.15	-56.75	-58.87	19.5	2	-48.88	11.51
2449.2	-56.5	-58.62	19.5	2	-48.88	11.76
2449.25	-56.75	-58.87	19.5	2	-48.88	11.51
2449.3	-56.5	-58.62	19.5	2	-48.88	11.76
2449.35	-56.5	-58.62	19.5	2	-48.88	11.76
2449.4	-55.75	-57.87	19.5	2	-48.88	12.51
2449.45	-55.75	-57.87	19.5	2	-48.88	12.51
2449.5	-56.75	-58.87	19.5	2	-48.88	11.51
2449.55	-57	-59.12	19.5	2	-48.88	11.26
2449.6	-56.25	-58.37	19.5	2	-48.88	12.01
2449.65	-57.25	-59.37	19.5	2	-48.88	11.01
2449.7	-55	-57.12	19.5	2	-48.88	13.26
2449.75	-55.5	-57.62	19.5	2	-48.88	12.76
2449.8	-55.5	-57.62	19.5	2	-48.88	12.76
2449.85	-56.5	-58.62	19.5	2	-48.88	11.76

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2449.9	-55.75	-57.87	19.5	2	-48.88	12.51
2449.95	-56.5	-58.62	19.5	2	-48.88	11.76
2450	-55.75	-57.87	19.5	2	-48.88	12.51
2450.05	-55.75	-57.87	19.5	2	-48.88	12.51
2450.1	-56.25	-58.37	19.5	2	-48.88	12.01
2450.15	-55.5	-57.62	19.5	2	-48.88	12.76
2450.2	-55.25	-57.37	19.5	2	-48.88	13.01
2450.25	-55.5	-57.62	19.5	2	-48.88	12.76
2450.3	-56	-58.12	19.5	2	-48.88	12.26
2450.35	-56	-58.12	19.5	2	-48.88	12.26
2450.4	-55.5	-57.62	19.5	2	-48.88	12.76
2450.45	-55.75	-57.87	19.5	2	-48.88	12.51
2450.5	-56.25	-58.37	19.5	2	-48.88	12.01
2450.55	-55.5	-57.62	19.5	2	-48.88	12.76
2450.6	-56.25	-58.37	19.5	2	-48.88	12.01
2450.65	-56	-58.12	19.5	2	-48.88	12.26
2450.7	-56	-58.12	19.5	2	-48.88	12.26
2450.75	-57	-59.12	19.5	2	-48.88	11.26
2450.8	-55.25	-57.37	19.5	2	-48.88	13.01
2450.85	-55.25	-57.37	19.5	2	-48.88	13.01
2450.9	-56	-58.12	19.5	2	-48.88	12.26
2450.95	-56.5	-58.62	19.5	2	-48.88	11.76
2451	-55.75	-57.87	19.5	2	-48.88	12.51
2451.05	-57	-59.12	19.5	2	-48.88	11.26
2451.1	-54.75	-56.87	19.5	2	-48.88	13.51
2451.15	-55.75	-57.87	19.5	2	-48.88	12.51
2451.2	-56.25	-58.37	19.5	2	-48.88	12.01
2451.25	-55	-57.12	19.5	2	-48.88	13.26
2451.3	-55.5	-57.62	19.5	2	-48.88	12.76
2451.35	-55.75	-57.87	19.5	2	-48.88	12.51
2451.4	-55.75	-57.87	19.5	2	-48.88	12.51
2451.45	-54	-56.12	19.5	2	-48.88	14.26
2451.5	-54.5	-56.62	19.5	2	-48.88	13.76
2451.55	-56	-58.12	19.5	2	-48.88	12.26
2451.6	-54.75	-56.87	19.5	2	-48.88	13.51
2451.65	-55.5	-57.62	19.5	2	-48.88	12.76
2451.7	-55.75	-57.87	19.5	2	-48.88	12.51
2451.75	-53.75	-55.87	19.5	2	-48.88	14.51
2451.8	-55.25	-57.37	19.5	2	-48.88	13.01
2451.85	-54.5	-56.62	19.5	2	-48.88	13.76
2451.9	-55	-57.12	19.5	2	-48.88	13.26
2451.95	-55	-57.12	19.5	2	-48.88	13.26
2452	-54.5	-56.62	19.5	2	-48.88	13.76
2452.05	-54.5	-56.62	19.5	2	-48.88	13.76
2452.1	-55	-57.12	19.5	2	-48.88	13.26
2452.15	-54.75	-56.87	19.5	2	-48.88	13.51
2452.2	-54.75	-56.87	19.5	2	-48.88	13.51
2452.25	-55.25	-57.37	19.5	2	-48.88	13.01

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2452.3	-55.25	-57.37	19.5	2	-48.88	13.01
2452.35	-55.25	-57.37	19.5	2	-48.88	13.01
2452.4	-55.5	-57.62	19.5	2	-48.88	12.76
2452.45	-54.75	-56.87	19.5	2	-48.88	13.51
2452.5	-54.75	-56.87	19.5	2	-48.88	13.51
2452.55	-54.75	-56.87	19.5	2	-48.88	13.51
2452.6	-55.5	-57.62	19.5	2	-48.88	12.76
2452.65	-54.75	-56.87	19.5	2	-48.88	13.51
2452.7	-54.75	-56.87	19.5	2	-48.88	13.51
2452.75	-55	-57.12	19.5	2	-48.88	13.26
2452.8	-55.75	-57.87	19.5	2	-48.88	12.51
2452.85	-55.75	-57.87	19.5	2	-48.88	12.51
2452.9	-55	-57.12	19.5	2	-48.88	13.26
2452.95	-55	-57.12	19.5	2	-48.88	13.26
2453	-54.5	-56.62	19.5	2	-48.88	13.76
2453.05	-54.25	-56.37	19.5	2	-48.88	14.01
2453.1	-55.75	-57.87	19.5	2	-48.88	12.51
2453.15	-54.25	-56.37	19.5	2	-48.88	14.01
2453.2	-54.75	-56.87	19.5	2	-48.88	13.51
2453.25	-54.5	-56.62	19.5	2	-48.88	13.76
2453.3	-54.25	-56.37	19.5	2	-48.88	14.01
2453.35	-54.25	-56.37	19.5	2	-48.88	14.01
2453.4	-54.25	-56.37	19.5	2	-48.88	14.01
2453.45	-55	-57.12	19.5	2	-48.88	13.26
2453.5	-53.5	-55.62	19.5	2	-48.88	14.76
2453.55	-53.75	-55.87	19.5	2	-48.88	14.51
2453.6	-54.5	-56.62	19.5	2	-48.88	13.76
2453.65	-53.75	-55.87	19.5	2	-48.88	14.51
2453.7	-54	-56.12	19.5	2	-48.88	14.26
2453.75	-53.75	-55.87	19.5	2	-48.88	14.51
2453.8	-54	-56.12	19.5	2	-48.88	14.26
2453.85	-53.5	-55.62	19.5	2	-48.88	14.76
2453.9	-53.5	-55.62	19.5	2	-48.88	14.76
2453.95	-53.25	-55.37	19.5	2	-48.88	15.01
2454	-53.5	-55.62	19.5	2	-48.88	14.76
2454.05	-53.75	-55.87	19.5	2	-48.88	14.51
2454.1	-53.25	-55.37	19.5	2	-48.88	15.01
2454.15	-53.25	-55.37	19.5	2	-48.88	15.01
2454.2	-53.5	-55.62	19.5	2	-48.88	14.76
2454.25	-53	-55.12	19.5	2	-48.88	15.26
2454.3	-53.25	-55.37	19.5	2	-48.88	15.01
2454.35	-53.25	-55.37	19.5	2	-48.88	15.01
2454.4	-53	-55.12	19.5	2	-48.88	15.26
2454.45	-53.25	-55.37	19.5	2	-48.88	15.01
2454.5	-52.75	-54.87	19.5	2	-48.88	15.51
2454.55	-52.5	-54.62	19.5	2	-48.88	15.76
2454.6	-52.5	-54.62	19.5	2	-48.88	15.76
2454.65	-52.5	-54.62	19.5	2	-48.88	15.76

Freq. (MHz)	Jammer Level from Sweeper (dBm)	Corrected Jammer Level (dBm)	SNRo (dB)	Lsys (dB)	Signal level (dBm)	Gp (dB)
2454.7	-53	-55.12	19.5	2	-48.88	15.26
2454.75	-51.5	-53.62	19.5	2	-48.88	16.76
2454.8	-51.75	-53.87	19.5	2	-48.88	16.51
2454.85	-53.25	-55.37	19.5	2	-48.88	15.01
2454.9	-52.5	-54.62	19.5	2	-48.88	15.76
2454.95	-52.25	-54.37	19.5	2	-48.88	16.01
2455	-51	-53.12	19.5	2	-48.88	17.26
2455.05	-51.5	-53.62	19.5	2	-48.88	16.76
2455.1	-52	-54.12	19.5	2	-48.88	16.26
2455.15	-51.75	-53.87	19.5	2	-48.88	16.51
2455.2	-51.5	-53.62	19.5	2	-48.88	16.76
2455.25	-52.25	-54.37	19.5	2	-48.88	16.01
2455.3	-52.25	-54.37	19.5	2	-48.88	16.01
2455.35	-50.75	-52.87	19.5	2	-48.88	17.51
2455.4	-50.75	-52.87	19.5	2	-48.88	17.51
2455.45	-50.5	-52.62	19.5	2	-48.88	17.76
2455.5	-50	-52.12	19.5	2	-48.88	18.26
2455.55	-50	-52.12	19.5	2	-48.88	18.26
2455.6	-49.25	-51.37	19.5	2	-48.88	19.01
2455.65	-49.75	-51.87	19.5	2	-48.88	18.51
2455.7	-49	-51.12	19.5	2	-48.88	19.26
2455.75	-48	-50.12	19.5	2	-48.88	20.26
2455.8	-47.25	-49.37	19.5	2	-48.88	21.01
2455.85	-47.25	-49.37	19.5	2	-48.88	21.01
2455.9	-45.75	-47.87	19.5	2	-48.88	22.51
2455.95	-46	-48.12	19.5	2	-48.88	22.26
2456	-45.75	-47.87	19.5	2	-48.88	22.51
2456.05	-44.25	-46.37	19.5	2	-48.88	24.01
2456.1	-43.75	-45.87	19.5	2	-48.88	24.51
2456.15	-43.75	-45.87	19.5	2	-48.88	24.51
2456.2	-42	-44.12	19.5	2	-48.88	26.26
2456.25	-41.5	-43.62	19.5	2	-48.88	26.76
2456.3	-41.25	-43.37	19.5	2	-48.88	27.01
2456.35	-42	-44.12	19.5	2	-48.88	26.26
2456.4	-41.5	-43.62	19.5	2	-48.88	26.76
2456.45	-41.75	-43.87	19.5	2	-48.88	26.51
2456.5	-41	-43.12	19.5	2	-48.88	27.26

Annex G

Occupied/Emissions Bandwidth

Test method and Setup

Equipment used
- Spectrum Analyzer
Anritu Corp
P/N MS2668C
S/N 6200081100

Test Method

The occupied bandwidth was measured with a spectrum analyzer.

Test Results: PASS

Pages 31 and 33 contain the test result for the occupied bandwidth test.



emissions test (limit).vi
\\WILAN CORP1\Dept Info\Technology\Technology SystemsInt\pub\LIBS\Mask\emissions test (limit).vi
Last modified on 7/6/01 at 4:14 PM
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Date: Time:

Wi-LAN AWE 120-24 Rev. 2
Low Channel
6 dB BW = 17.8 MHz 20 dB BW = 28.7 MHz

Peak Search Results

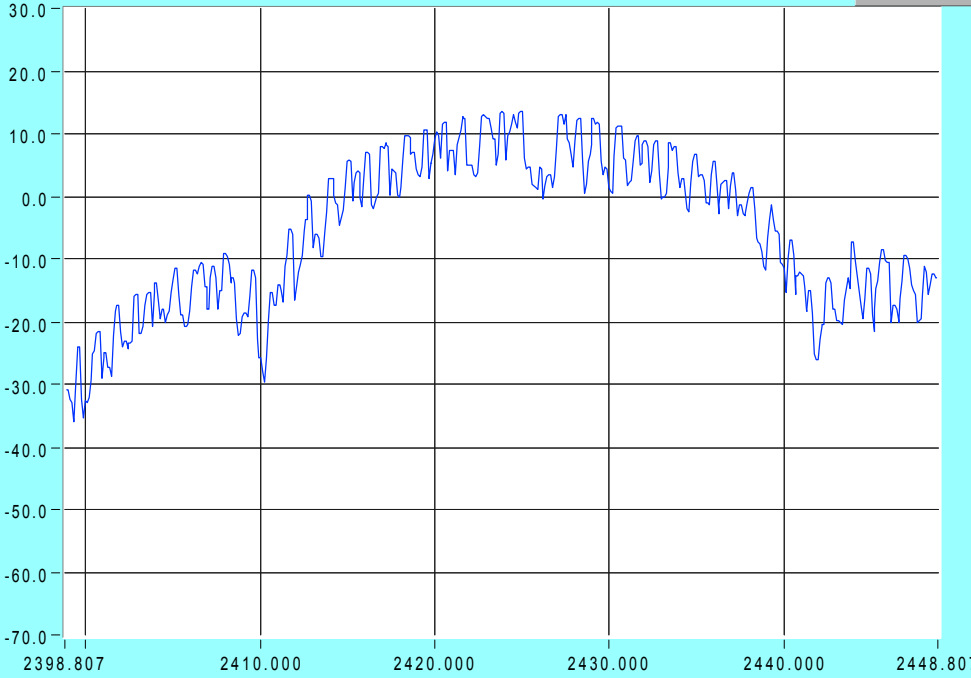
Frequency MHz Power dBm

RLV: 30.00

Trace A
Trace B
limit 1
limit 2

PRINT
 GET TRACE
 TRACE A
 TRACE B
 Limit 1
 Limit 2
 Save Raw Data

dBm/dBuV

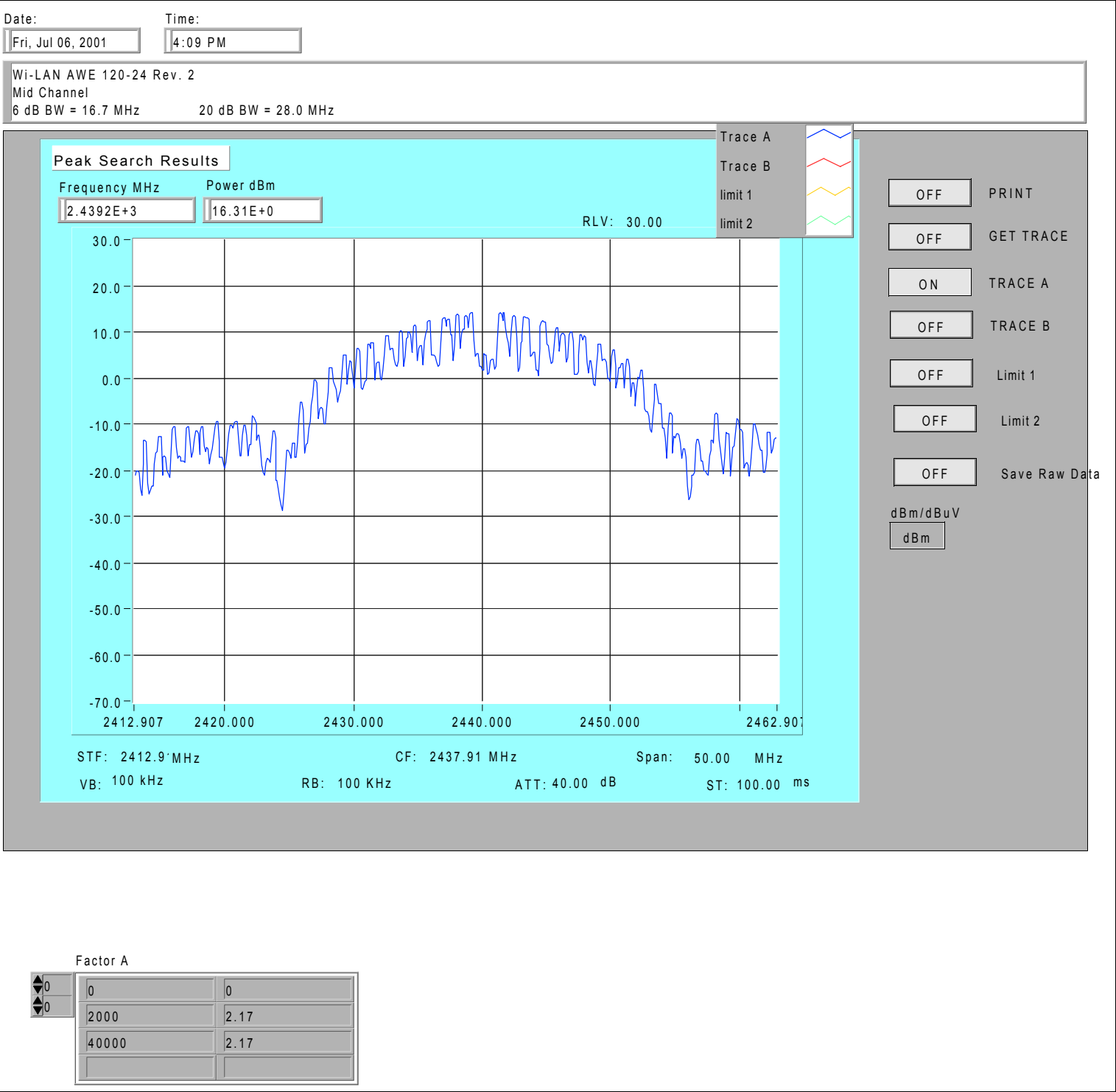


STF: 2398.8 MHz CF: 2423.81 MHz Span: 50.00 MHz
VB: 100 kHz RB: 100 kHz ATT: 40.00 dB ST: 100.00 ms

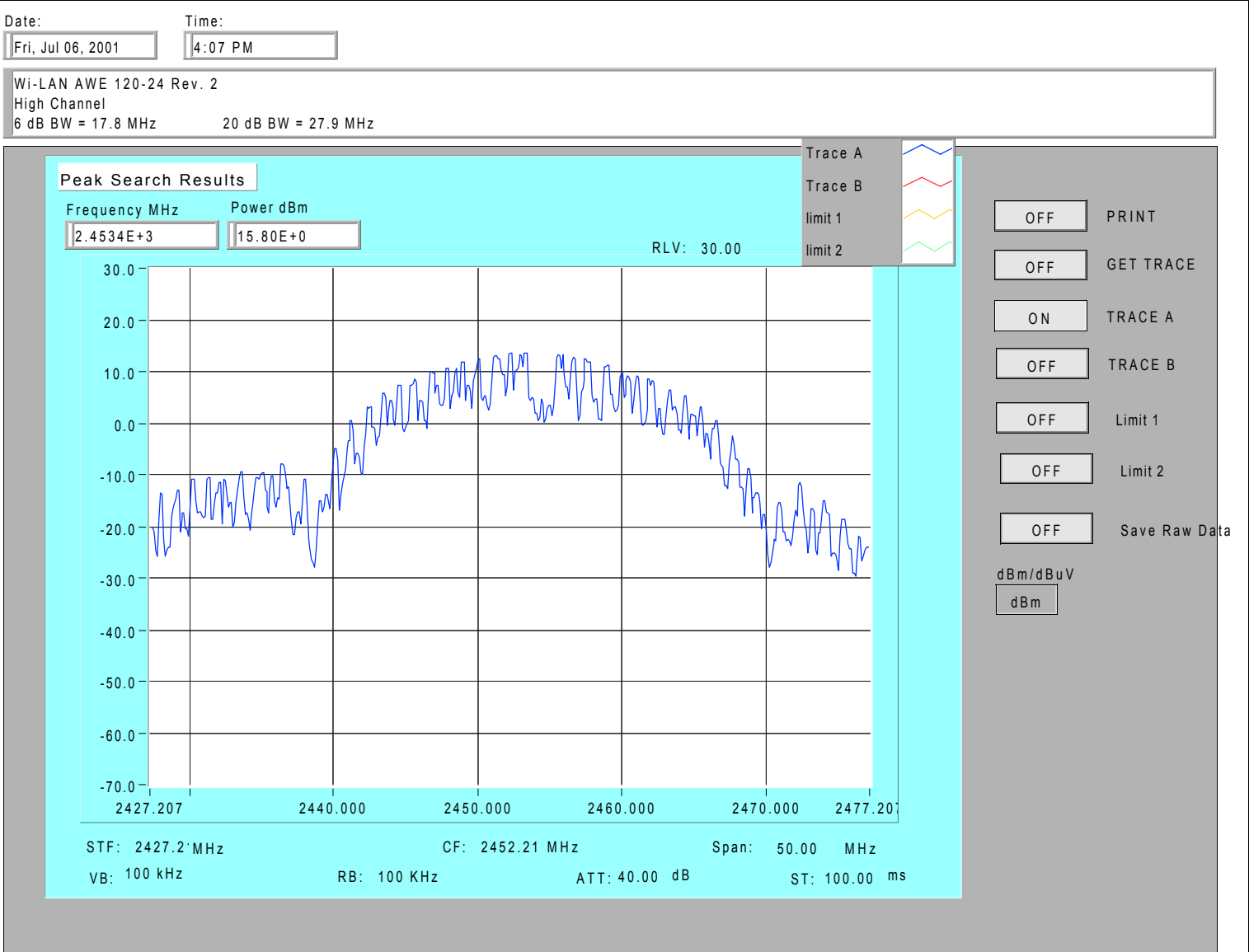
Factor A

0	0	0
2000	2.17	2.17
40000	2.17	2.17

emissions test (limit).vi
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Factor A		
0 0	0	0
	2000	2.17
	40000	2.17

End of Document