

Straubing, 23 May 2005

TEST - REPORT

No. 56111-050118

for

RC-100 Handheld

RF Transceiver

Applicant: Daktronics, Inc.

Purpose of testing: To show compliance with

FCC Code of Federal Regulations,
Part 15 Subpart C, Section 15.247

RSS 210, Issue 5, November 2001,
Section 6.2.2. (o)

Note:

The test data of this report relate only to the individual item which has been tested.
This report shall not be reproduced except in full extent without the written approval of
the testing laboratory.

Table of Contents

1.	Administrative Data.....	3
2.	Identification of Test Laboratory	4
3.	Operation Mode of EUT.....	5
4.	Configuration	6
5.	Measuring Methods	7
5.1.	Maximum Transmitter Power	7
5.2.	Radiated Emissions 30 MHz – 1 GHz	10
5.3.	Radiated Emission > 1 GHz	11
6.	Photographs Taken During Testing	12
7.	List of Measurements	15
8.	Referenced Regulations	39
	Charts taken during testing	40

1. Administrative Data

Test item (EUT)	
Type designation	RC-1000 Handheld
Serial number(s):	001
Type of equipment:	RF Transceiver
Parts/accessories:	---
FCC-ID:	
Technical data	
Frequency range	902 - 928 MHz
Operational frequencies	FHSS
Statement:	The power was set to the maximum possible
Type of modulation	FSK
Pulse frequency	N/A
Pulse width	N/A
Antenna	
Power supply	12 V DC via external AC Adapter
Applicant: (full address)	Daktronics, Inc. 32 nd Ave., Brookings, SD 57006, USA
Contract identification:	---
Contact person:	Randy Uehran
Manufacturer:	Applicant
Application details	
Receipt of EUT:	07 March 2005
Date of test:	23 May 2005
Note:	---
Responsible for testing:	Johann Roidt
Responsible for test report:	Johann Roidt

2. Identification of Test Laboratory

DETAILS OF THE TEST LABORATORY	
COMPANY NAME:	Senton GmbH EMI/EMC Test Center
ADDRESS:	Aeussere Fruehlingsstrasse 45 D-94315 Straubing Germany
LABORATORY ACCREDITATION:	DAR-Registration No. DAT-P-171/94-02
FCC TEST SITE LISTING	90926
INDUSTRY CANADA TEST SITE REGISTRATION	IC 3050
NAME FOR CONTACT PURPOSES:	Mr. Johann Roidt
TELEPHONE: (+49) (0)9421 5522-0	FAX: (+49) (0)9421 5522-99

PERSONNEL INVOLVED IN THIS TEST REPORT	
LABORATORY MANAGER:	 Mr. Johann Roidt
RESPONSIBLE FOR TESTING:	Mr. Johann Roidt
RESPONSIBLE FOR TEST REPORT:	Mr. Johann Roidt

SUMMARY OF TEST RESULTS
The tested sample complies with the requirements set forth in the Code of Regulations Part 15 Subpart C, Section 15.247 of the Federal Communication Commission (FCC).

3. Operation Mode of EUT

Transmitter operating continuously,
full tests were performed on lowest, middle and highest RF channel.

4. Configuration

Configuration of the EUT
A full test setup was supplied by the applicant

Cables connected to the EUT
Not applicable

Peripheral devices connected to the EUT
Not applicable

5. Measuring Methods

5.1. Maximum Transmitter Power

5.1.1. Conducted Maximum Transmitter Power

Rules and Specifications:	Section 15.247
Guide:	ANSI C63.4-2003

Measurement Procedure:
A spectrum analyzer / EMI test receiver is connected to the output of the transmitter power amplifier (conducted measurement) via dummy load while EUT was operating in transmit mode using the assigned frequency. The trace mode of the spectrum analyzer was set to max hold with: RBW = 100 kHz, VBW = 100 kHz, span = 1 MHz, sweep = 20 ms (auto mode)

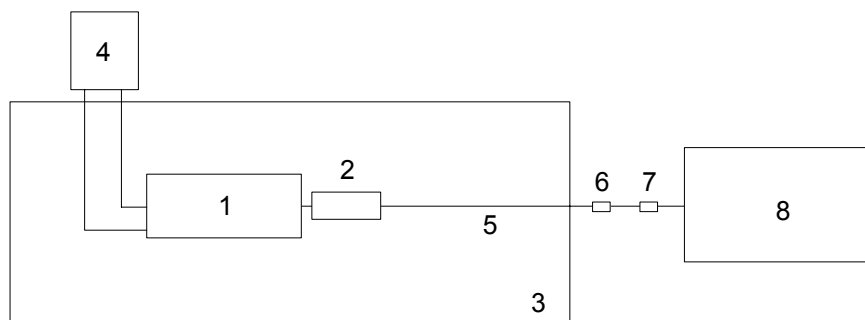


Figure 1: Measurement setup for testing on antenna connector

Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
08	Power Meter	NRVS	836856/015	Rohde & Schwarz
09	Power Sensor	NRV-Z52	837901/030	Rohde & Schwarz
18	Attenuator 20 dB	4776-20	9503	Narda
19	Attenuator 10 dB	4776-10	9412	Narda

5.1.2. Radiated Maximum Transmitter Power

Radiated Maximum Transmitter Power was measured with detector-function of the spectrum analyzer set to positive peak and trace mode max hold:
RBW = 100 kHz, VBW = 100 kHz, span = 1 MHz, sweep = 15 s

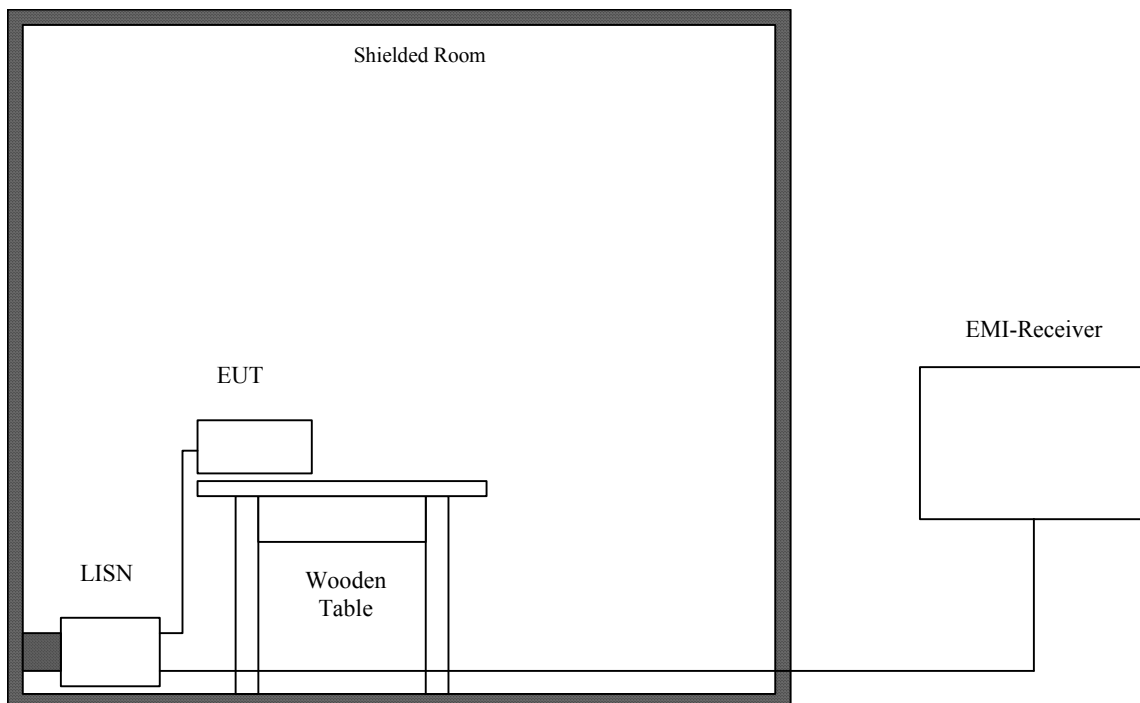
For measurement setup and procedure see section 5.2

5.2. Conducted powerline emissions

Rules and Specifications:	Sections 15.107 & 15.207
Guide:	CISPR 22

Measurement Procedure:

In general conducted emission tests in the frequency range 0.15 - 30 MHz are required to be performed with quasi-peak and average detector. To simplify testing the following procedure is used: First the whole spectrum of emission caused by equipment under test (EUT) is recorded with detector set to peak. After that all emission levels having less margin than 20 dB to or exceeding the appropriate limit (in general average limit is 10 dB lower than quasi-peak limit) are retested with detector set to quasi-peak. If average limit is kept no additional scan with average detector is necessary. In cases of emission levels between quasi-peak and average limit an additional scan with detector set to average has to be recorded.



Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	EMI Receiver	ESHS 10	860043/016	Rohde & Schwarz
02	LISN	ESH3-Z5	862770/021	Rohde & Schwarz
03	LISN	ESH-3-Z5	830952/025	Rohde & Schwarz
04	Shielded Room No. 4	---	3FD-100 544	Euroshield

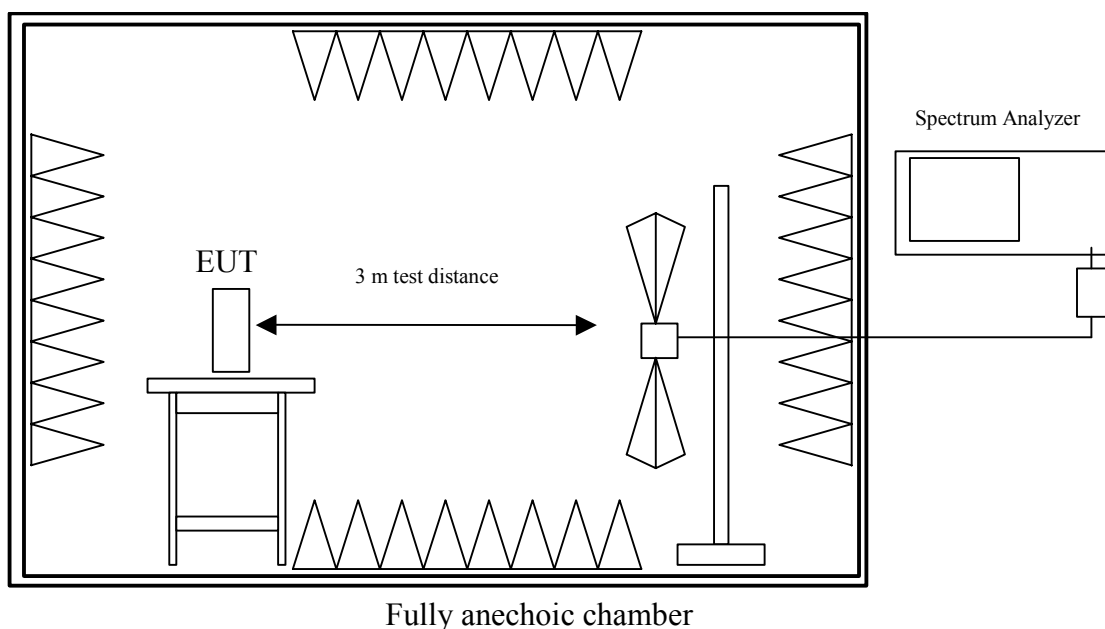
5.3. Radiated Emissions 30 MHz – 1 GHz

Rules and Specifications:	Section 15.247
Guide:	ANSI C63.4-2003

Measurement Procedure:

Radiated emissions are measured over the frequency range from 30 MHz to 1 GHz.

Measurements were made in both the horizontal and vertical planes of polarization in a fully anechoic room using a spectrum analyzer with the detector function set to peak and resolution bandwidth set to 100 kHz. All tests were performed at a test-distance of 3 meters. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing



Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
113	Preamplifier	CPA9231A	3393	Schaffner
141	Trilog broadband antenna	VULB 9163	9163-188	Schwarzbeck
003	Fully anechoic room	No. 2	1452	Albatross Projects

5.4. Radiated Emission > 1 GHz

Rules and Specifications:	Section 15.247
Guide:	ANSI C63.4-2003

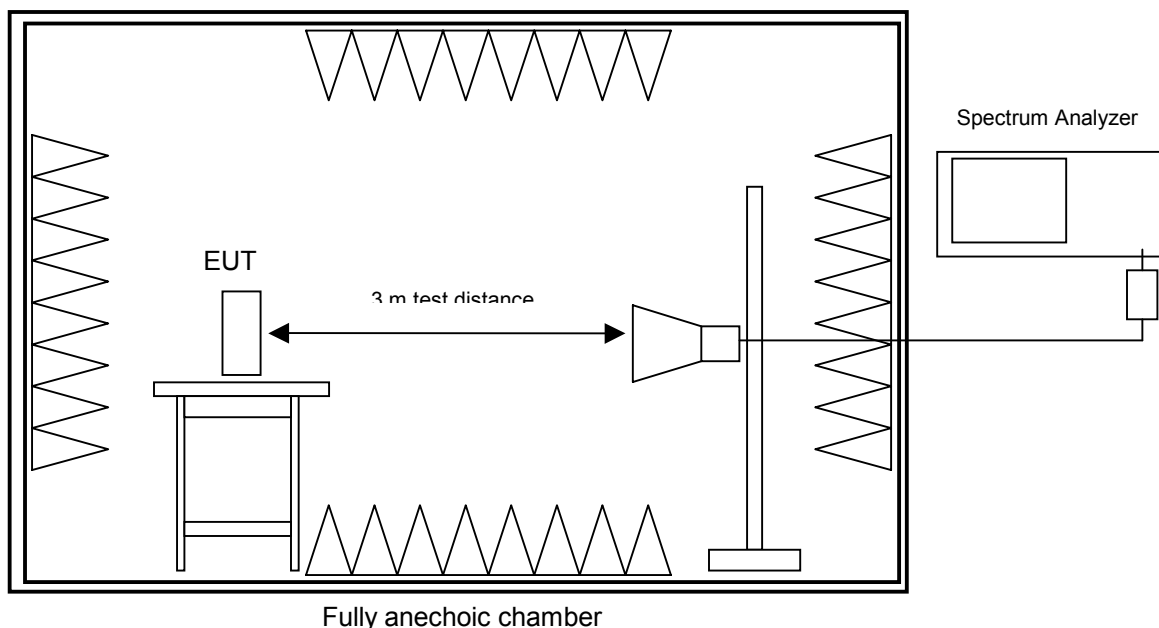
Measurement Procedure:

Radiated emissions are measured in the frequency range 1 GHz to 25 GHz. Resolution and video bandwidth of the spectrum analyzer are set to 1 MHz. Hand-held or body-worn devices are rotated through three orthogonal axes to determine which attitude and configuration produces the highest emission relative to the limit and therefore shall be used for final testing. Additional measurements are performed at critical frequencies with reduced span.

EUT is rotated all around and receiving antenna is raised and lowered to find the maximum levels of emission. The cables and equipment are placed and moved within the range of position likely to find their maximum emissions.

All tests are performed in a fully-anechoic chamber with a test-distance of 3 meters.

If required preamplifiers are used for the whole frequency range. Special care is taken to avoid overload in transmit mode (using appropriate attenuators and filters if necessary).

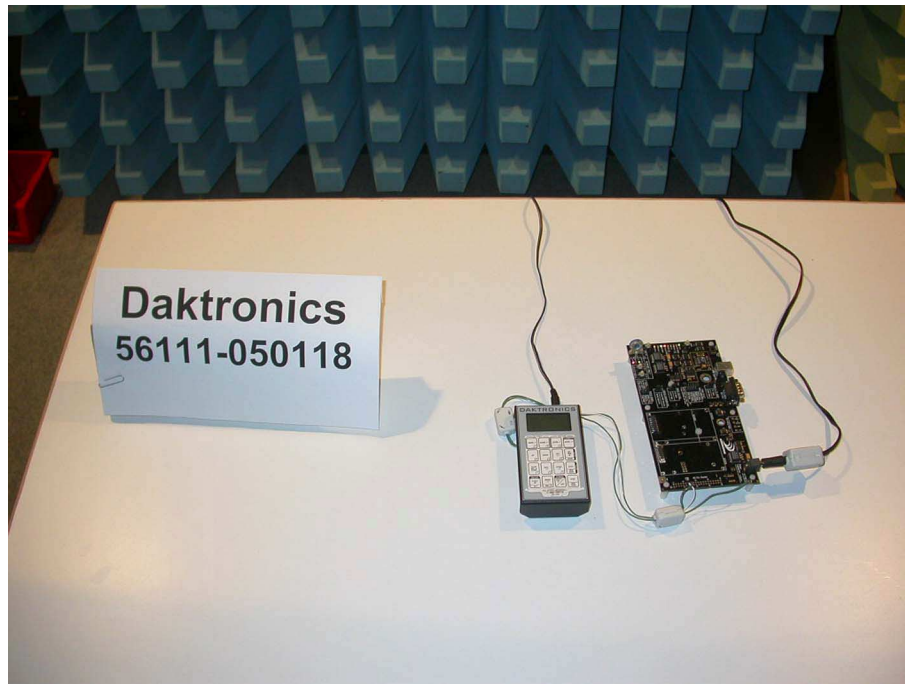


Test instruments used:

No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03/-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
115	Preamplifier 8-18 GHz	ACO/180-3530	32641	CTT
003	Fully anechoic room	No. 2	1452	Albatross Projects

6. Photographs Taken During Testing

Test setup for radiated emission measurement 30 MHz – 25 GHz (fully anechoic room)



Test setup for conducted AC Powerline Emission Measurement



7. List of Measurements

FCC Part 15 Subpart C			
Section(s):	Test	Page(s)	Result
	Transmitter:		
15.205	Restricted Bands	---	Pass
15.247 (a) (1)	Channel Bandwidth	17	Pass
15.247 (a) (1)	Hopping channel separation	19	Pass
15.247 (a) (1) (i)	Number of Hopping Frequencies used	21	Pass
15.247 (a) (1) (i)	Dwell Time of each frequency within a 10 Second Period of Time	22	Pass
15.247 (b) (2)	Maximum Peak Output Power	24	Pass
15.247 (d)	Spurious emissions - conducted	26	Pass
15.247 (d) 15.209	Spurious emissions - radiated	32	Pass
15.247 (g)	Compliance with applicable requirements for FHSS	---	
15.247 (h)	Limitation on avoidance on hopping in occupied channel	---	
15.203	Antenna Requirement	34	
2.1093	RF Exposure Requirement	35	Pass
15.207	Conducted AC Powerline Emissions	36	Pass
	Receiver		
15.111	Spurious emissions on antenna port	---	N/A
15.109	Radiated Emissions	38	Pass

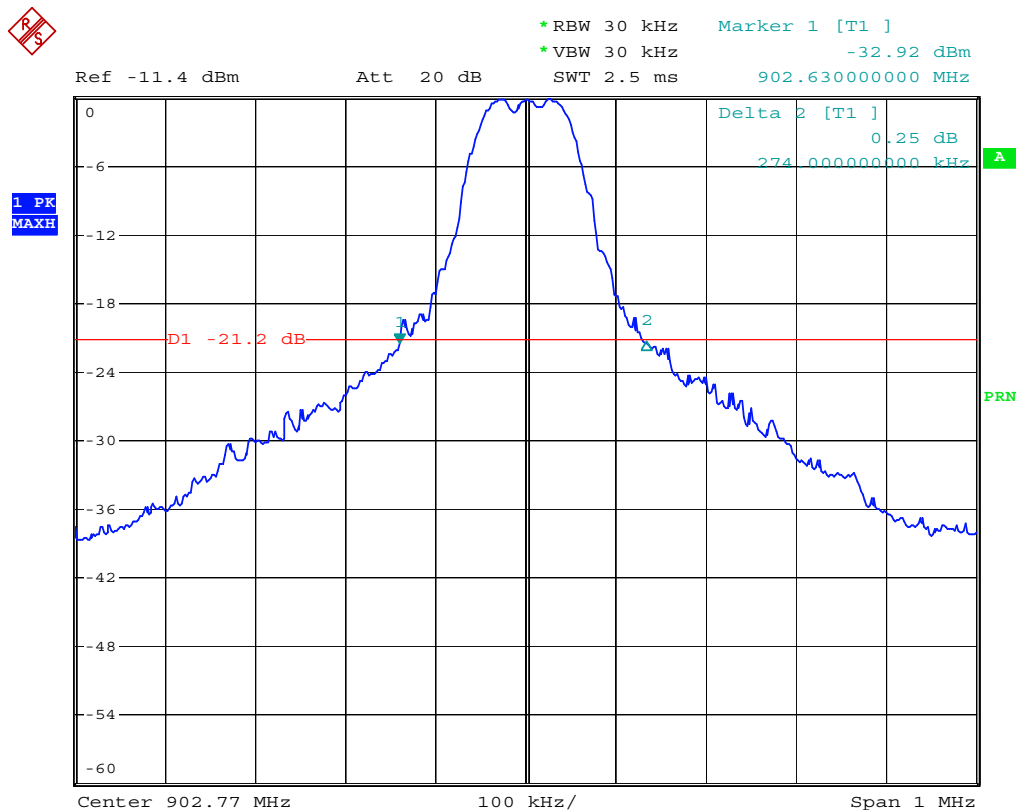
RSS 210, Issue 5			
Section(s):	Test	Page(s)	Result
6.2.2 (o) (e3) (a) (a2) (a2) (a2) (a2) (a2) (e1) (e1) (e2) 14 6.6 7.2 7.3			
	Transmitter:		
	Restricted Bands	---	Pass
	Channel Bandwidth	17	Pass
	Hopping channel separation	19	Pass
	Number of Hopping Frequencies used	21	Pass
	Dwell Time of each frequency within a 10 Second Period of Time	22	Pass
	Maximum Peak Output Power	24	Pass
	Spurious emissions - conducted	26	Pass
	Spurious emissions - radiated	32	Pass
	Antenna Requirement	34	
	RF Exposure Requirement	35	Pass
	Conducted AC Powerline Emissions	36	Pass
	Receiver		
	Spurious emissions on antenna port	---	N/A
	Radiated Emissions	38	Pass

Channel Bandwidth

Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4-2003
Limit:	The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	23 March 2005

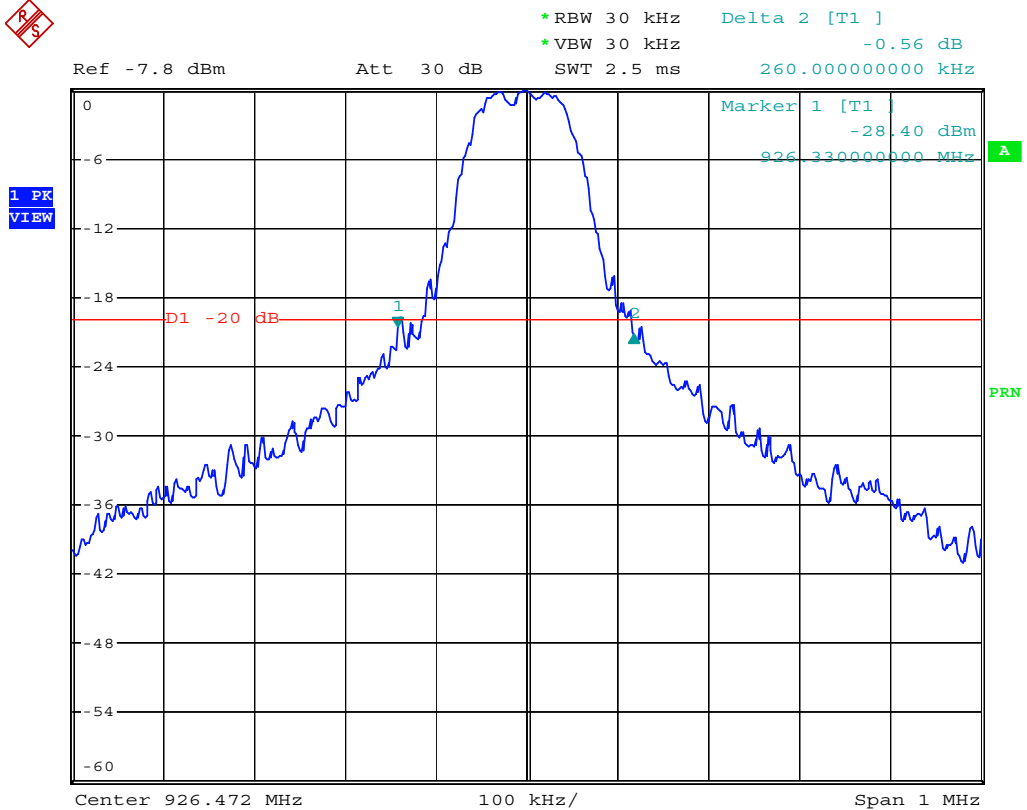
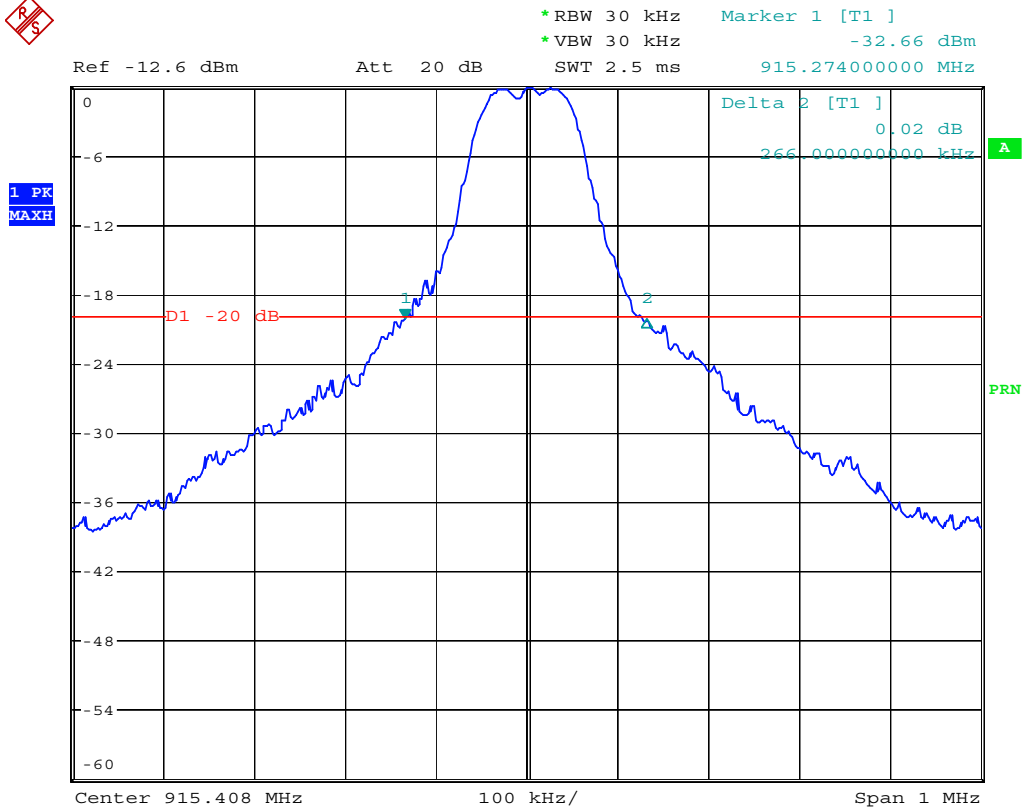
Frequency	Channel Bandwidth in kHz	Standard	Result
Low (902.74 MHz)	274.0	>250 / ≤500 kHz	Pass
Middle 915,37 MHz	266.0	>250 / ≤500 kHz	Pass
High 926.43 MHz	260.0	>250 / ≤500 kHz	Pass



Date: 15.JUN.2005 15:39:18

FCC-ID:

Test Report No. 56111-050118



Date: 15.JUN.2005 15:42:43

FCC-ID:

Test Report No. 56111-050118

Hopping Channel Separation

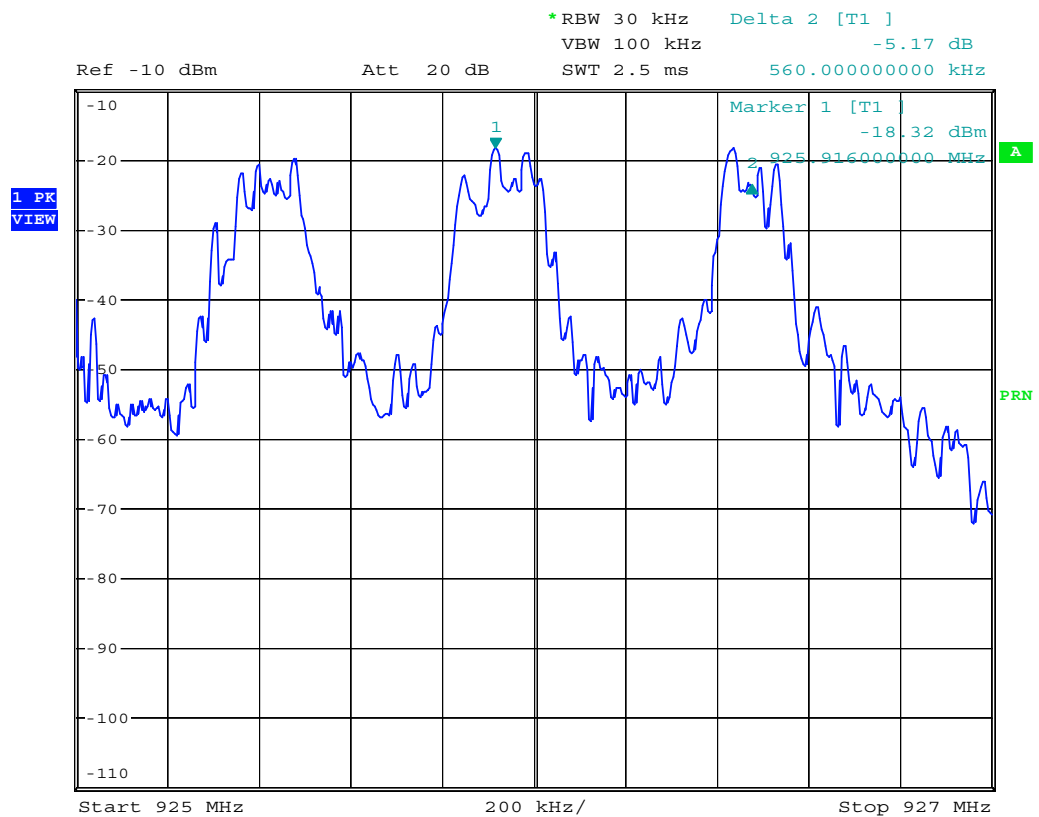
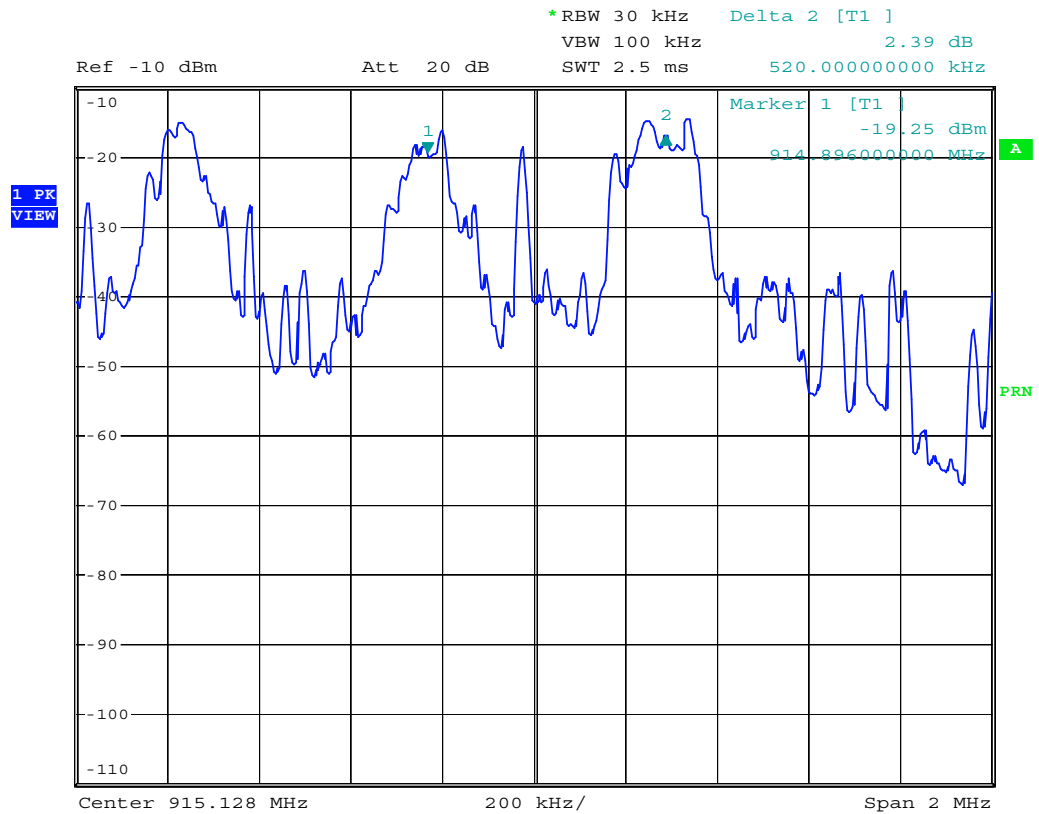
Rules and Specifications:	15.247 (a) (1)
Guide:	ANSI C63.4-2003
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth, whichever is greater.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	15 June 2005

Channel Frequency	Measured	Required	Result
902.2. MHz	539.2 kHz	>274.0	Pass
915.4 MHz	520.0 kHz	>266.0	Pass
925.9 MHz	560.0 kHz	>260.0	Pass



Date: 19.JUL.2005 20:44:33



Date: 19.JUL.2005 20:50:04

FCC-ID:

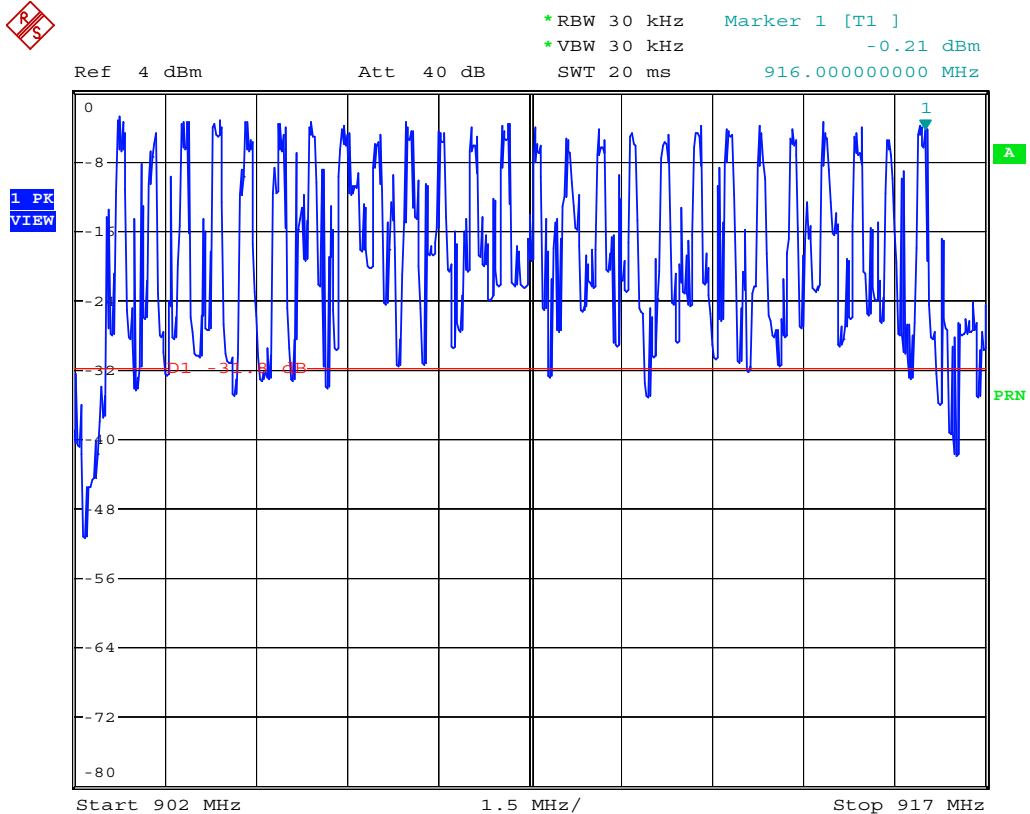
Test Report No. 56111-050118

Number of Hopping Frequencies used

Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4-2003
Limit:	If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	23 March 2005

Number of Hopping Frequencies	Measured	Required	Result
Low Channel Set	25	25	Pass



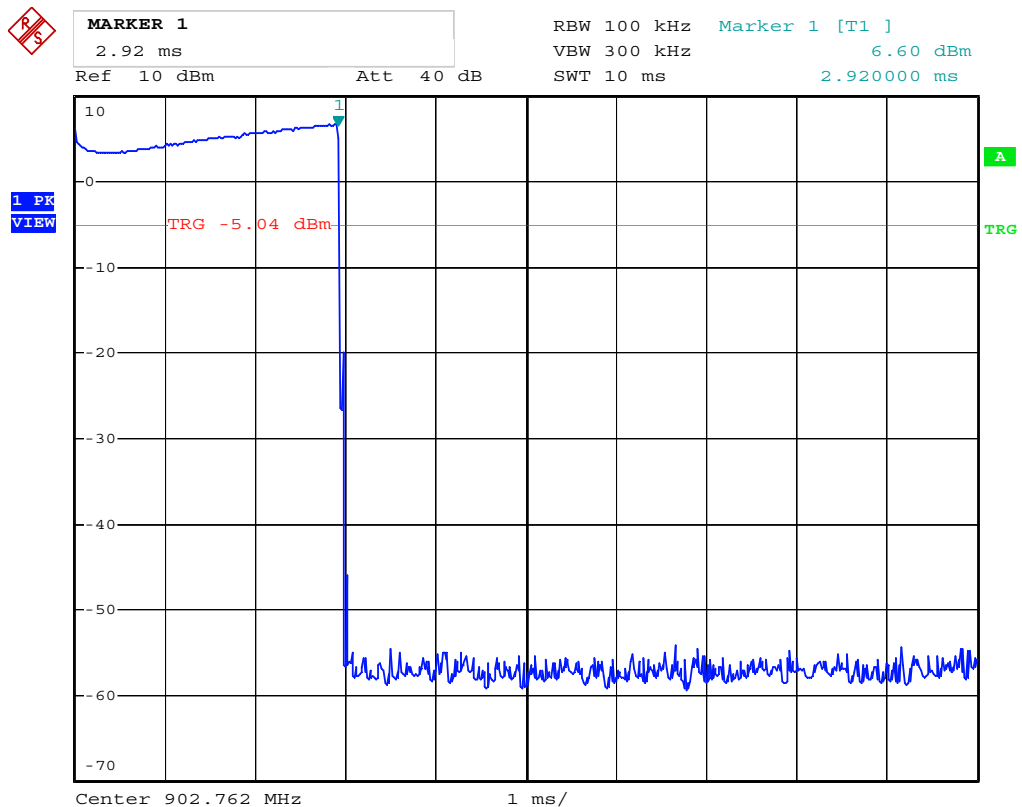
Date: 15.JUN.2005 15:50:44

Time Occupancy on any Channel

Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4-2003
Limit:	If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	23 March 2005

Time occupancy	Measured	Required	Result
	20 x 2.92 ms = 58.4 ms within a 10 seconds period	< 0.4 seconds within a 10 second period	Pass





RBW 100 kHz Marker 1 [T1]
 VBW 300 kHz -0.05 dBm
 SWT 10 s 2.920000 ms

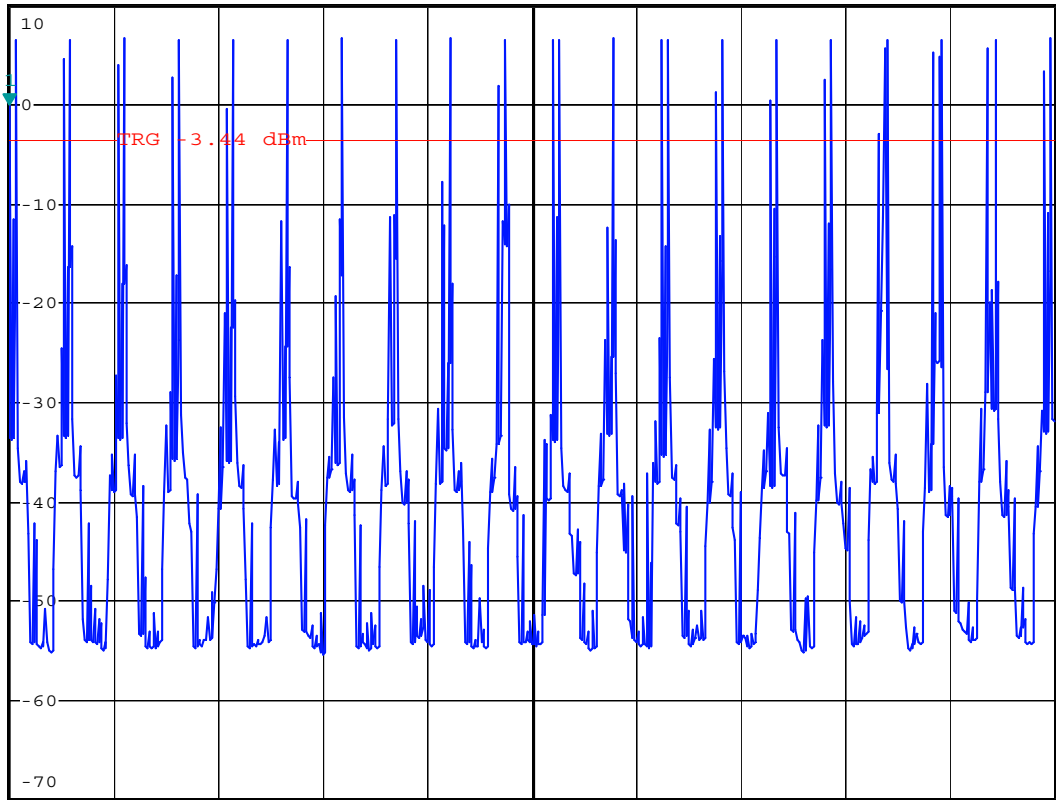
Ref 10 dBm

Att 40 dB

SWT 10 s

2.920000 ms

1 PK
VIEW



Center 902.762 MHz

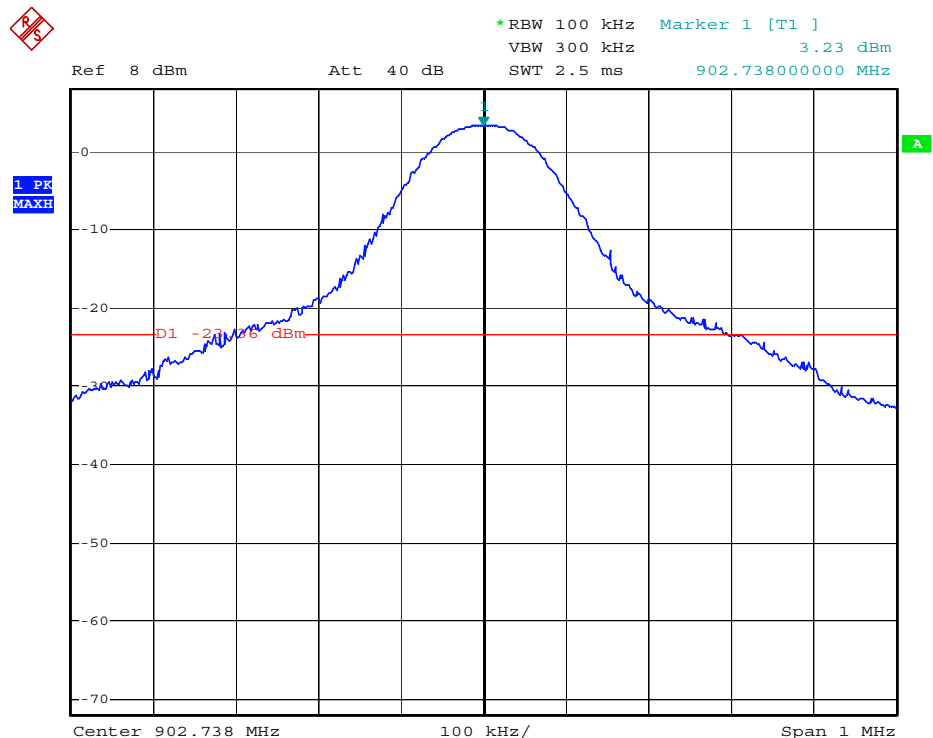
1 s /

Carrier Power Measurement

Rules and Specifications:	15.247 (b) (2)
Guide:	ANSI C63.4-2003
Limit:	0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	23 March 2005

Frequency	Output Power in dBm	Output Power in W	Standard	Result
Low (902.2 MHz)	3.23	0.0021	$\leq 0.25W$	Pass
Middle 915,4 MHz	2.16	0.0016	$\leq 0.25W$	Pass
High 927.5 MHz	1.51	0.0014	$\leq 0.25W$	Pass





MARKER 1

915.38 MHz

Ref 8 dBm

Att 40 dB

*RBW 100 kHz

VBW 300 kHz

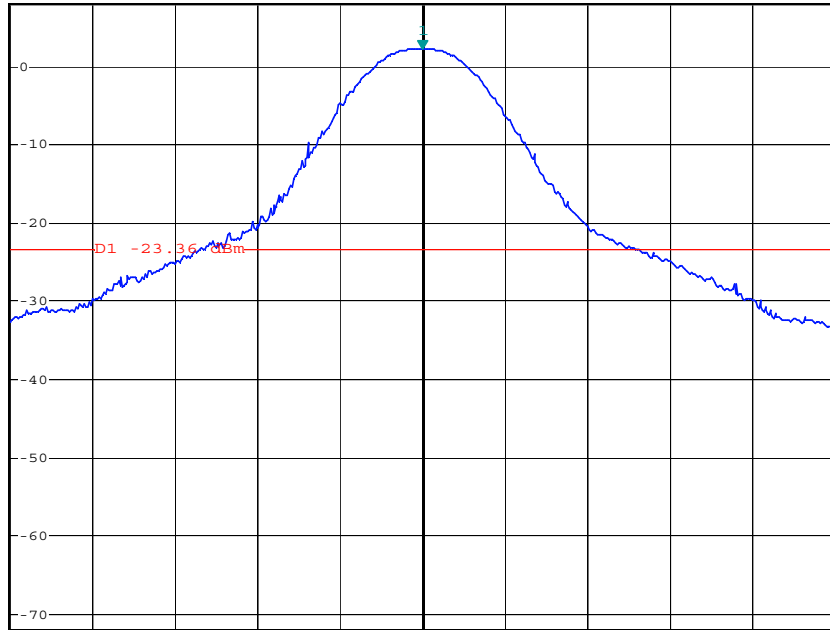
SWT 2.5 ms

Marker 1 [T1]

2.16 dBm

915.38000000 MHz

1 PK
MAXH



*RBW 100 kHz

VBW 300 kHz

SWT 2.5 ms

Marker 1 [T1]

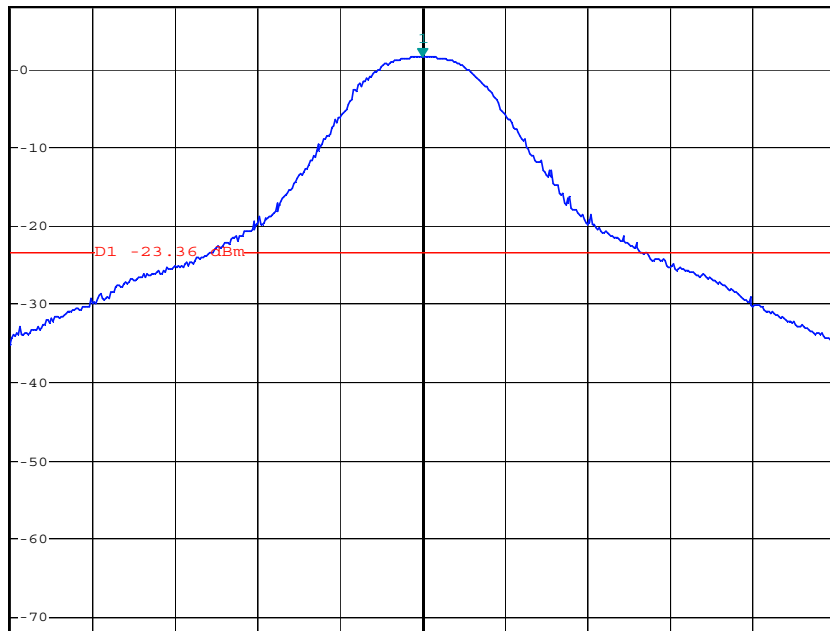
1.51 dBm

926.43600000 MHz

Ref 8 dBm

Att 40 dB

1 PK
MAXH



Spurious Emissions - Conducted

Rules and Specifications:	15.247 (d)
Guide:	ANSI C63.4-2003
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	23 March 2005

Test Result:	Pass	
---------------------	-------------	--

Configuration:	Lowest Channel
----------------	----------------

Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)	Result
902.2	3.23	---	---	Fundamental
1805	-53.96	-16.77	-37.19	Pass
2702	-50.57	-16.77	-33.80	Pass
4517	-46.84	-16.77	-30.07	Pass

Test Result:	Pass	
---------------------	-------------	--



MARKER 1

887.42 MHz

Ref 10 dBm

*Att 30 dB

*RBW 100 kHz

VBW 300 kHz

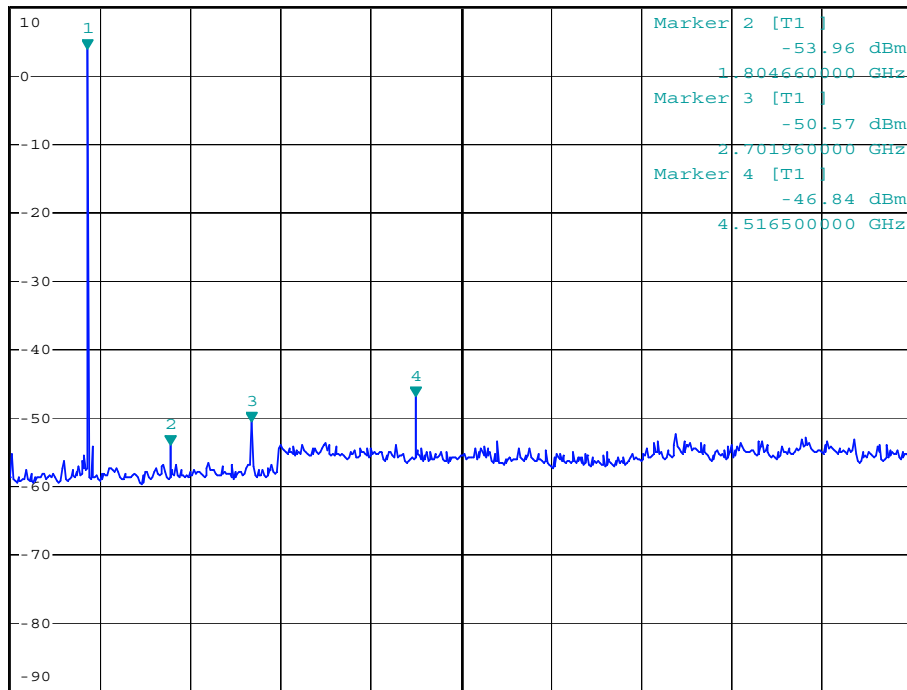
SWT 1 s

Marker 1 [T1]

3.79 dBm

887.42000000 MHz

1 PK
VIEW



Start 30 MHz

997 MHz/

Stop 10 GHz



DELTA MARKER 2

-740 kHz

Ref 8 dBm

Att 40 dB

*RBW 100 kHz

VBW 300 kHz

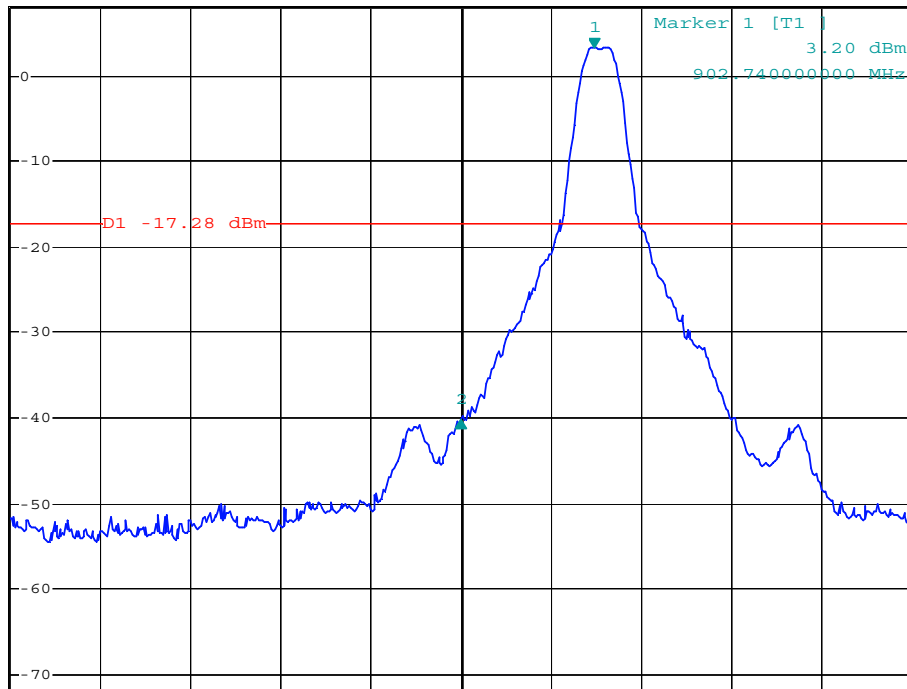
SWT 2.5 ms

Delta 2 [T1]

-43.45 dB

-740.00000000 kHz

1 PK
MAXH



Center 902 MHz

500 kHz/

Span 5 MHz

Configuration:	Mid Channel
----------------	-------------

Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)	Result
915.4	2.16	---	---	Fundamental
1825	-52.40	-17.84	-34.56	Pass
2742	-51.88	-17.84	-34.04	Pass
4576	-48.92	-17.84	-31.08	Pass

Test Result:	Pass	
--------------	------	--



MARKER 4

4.57632 GHz

Ref 10 dBm

*Att 30 dB

*RBW 100 kHz

VBW 300 kHz

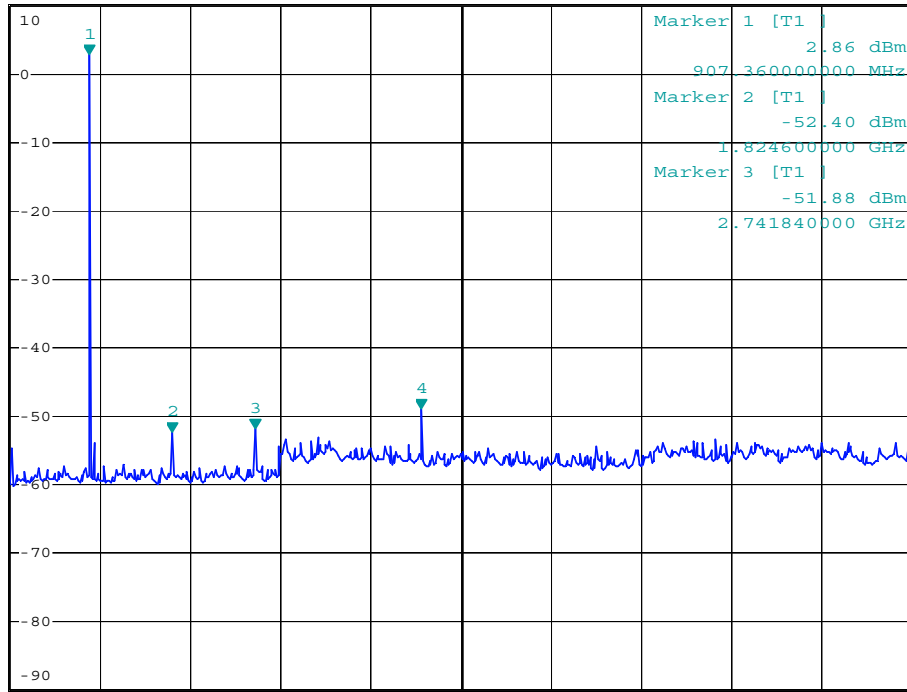
SWT 1 s

Marker 4 [T1]

-48.92 dBm

4.576320000 GHz

1 PK
VIEW



Start 30 MHz

997 MHz/

Stop 10 GHz

Configuration:	Highest Channel
----------------	-----------------

Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)	Result
927.5	1.51	---	---	Fundamental
1845	-51.60	-18.49	-33.11	Pass
2782	-53.41	-18.49	-34.92	Pass
4636	-50.50	-18.49	-32.01	Pass

Test Result:	Pass
--------------	------



MARKER 1

927.3 MHz

Ref 10 dBm

*Att 30 dB

*RBW 100 kHz

VBW 300 kHz

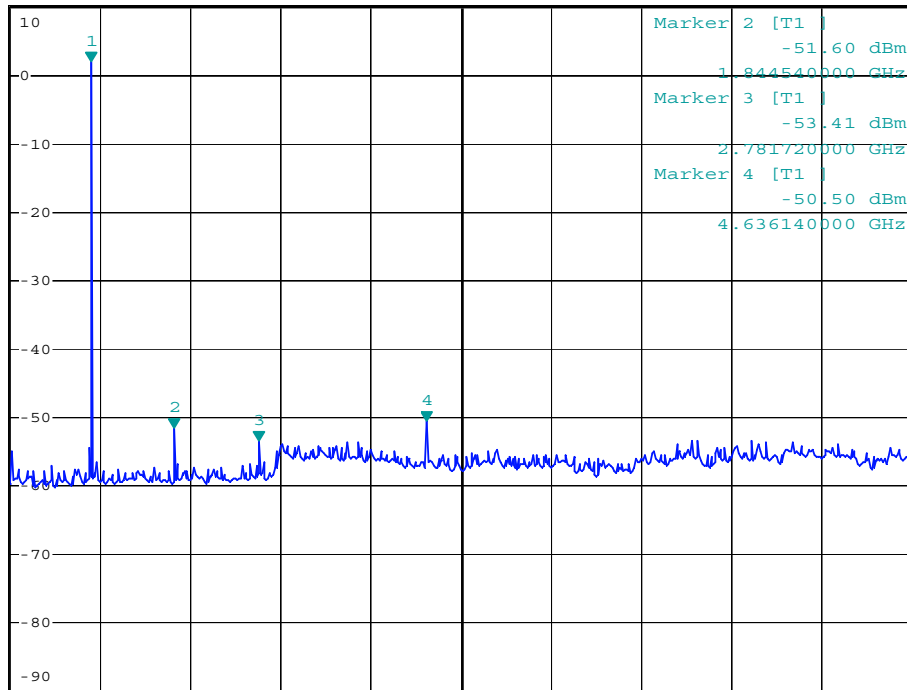
SWT 1 s

Marker 1 [T1]

2.03 dBm

927.30000000 MHz

1 PK
VIEW



Start 30 MHz

997 MHz/

Stop 10 GHz



DELTA MARKER 2

1.54 MHz

Ref 8 dBm

Att 40 dB

*RBW 100 kHz

VBW 300 kHz

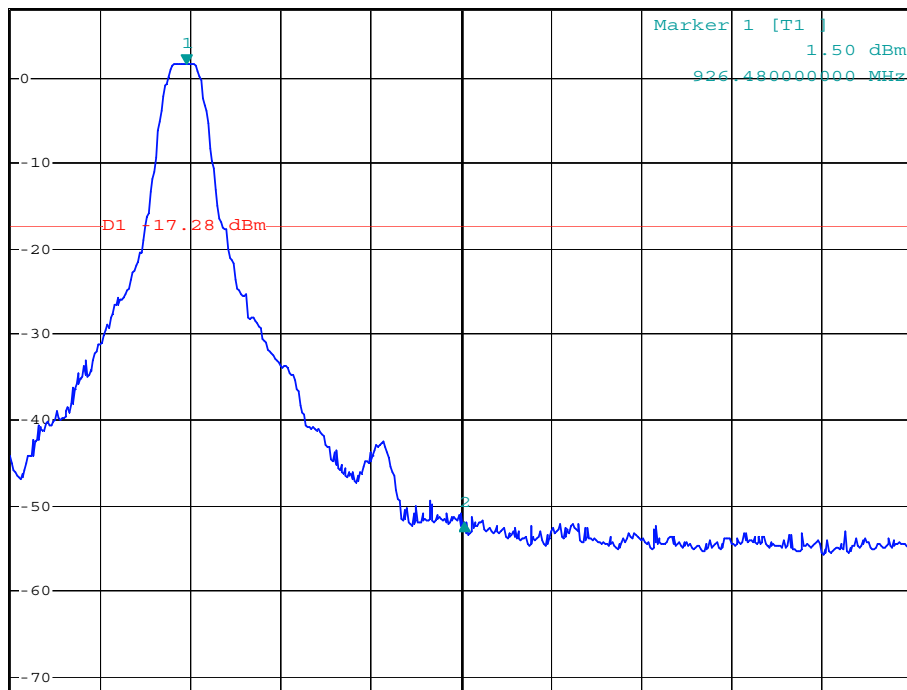
SWT 2.5 ms

Delta 2 [T1]

-53.50 dB

1.540000000 MHz

1 PK
MAXH



Center 928 MHz

500 kHz/

Span 5 MHz

Spurious Emissions - Radiated

Rules and Specifications:	15.247 (d)	
Guide:	ANSI C63.4-2003	
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).	
Test Site:	Open Area Test Site (< 1GHz), Fully anechoic room (>1 GHz)	
Distance:	Radiated Measurement	
Date of Test:	22 March 2005, 7 April 2005	
Test Results:	Pass	

Tested on:	Lowest Channel
------------	----------------

Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dB μ V)	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
545.600	horizontal	Peak	19.9	19.3	0.0	39.2	46.0	6.8
1804.000	vertical	Peak	12.6	30.0	0.0	42.6	77.0	34.3
2710.000	vertical	Peak	12.4	33.1	0.0	45.5	77.0	31.5
5416.000	vertical	Peak	10.6	40.0	0.0	50.6	77.0	26.4

Test Results:	Pass
----------------------	-------------

Tested on:	Mid Channel
------------	-------------

Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dB μ V)	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
324.800	horizontal	Peak	21.2	15.1		36.3	46.0	9.7
354.000	horizontal	Peak	21.0	15.9		36.9	46.0	9.1

Test Results:	Pass
----------------------	-------------

Tested on:	Highest Channel
------------	-----------------

Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dB μ V)	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
265.600	horizontal	Peak	22.7	13.7		36.4	46.0	9.6
516.400	horizontal	Peak	17.7	18.7		36.3	46.0	9.7
1852.000	vertical	Peak	11.1	30.3		41.3	71.5	30.2
2782.000	vertical	Peak	11.3	33.4		44.7	71.5	26.8
3706.000	vertical	Peak	9.1	36.5		45.7	71.5	25.8
5560.000	vertical	Peak	9.8	40.2		50.0	71.5	21.5

Test Results:	Pass
----------------------	-------------

Antenna connector requirement

Rules and Specifications:	15.203
Guide:	---
Limit:	An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.
Test Result	Pass
	The UUT employs an integrated antenna



RF Exposure

Rules and Specifications:	15.247 (b) (4)
Guide:	OET Bulletin 65, Edition 97-01
Limit:	According to §15.247(b)(4) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

**Limits for Maximum Permissible Exposure (MPE)
General Population / Uncontrolled Exposure**

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
30 - 1500	---	---	$f/1500$ = 0.61 mW/cm ² @ 915 MHz	30

f = frequency in MHz

The maximum measured power output is 2.1 mW, the maximum antenna gain is 2 dBi which is far below the low threshold defined as $(60/f \text{ GHz}) \text{ mW}$ for $d < 2.5 \text{ cm}$ in the TCB exclusion list.

Test Result:	Pass	
---------------------	-------------	--

Conducted Powerline Emission Measurement

Rules and Specifications:	15.107, 15.207		
Guide:	CISPR 22		
Limit:	Frequency of Emission (MHz)	Conducted Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5 0.5 – 5 5 - 30	66 to 56 56 60	56 to 46 46 50

Test Site:	EMC Lab. - Shielded Room 4
Distance:	Conducted Measurement at AC input of T48121667A300G
Date of Test:	24 March 2005

Test Results:	Pass
----------------------	------

Tested on:

L1

Frequency (MHz)	Detector	Reading Value (dBμV)	Correction Factor (dB)	Final Value (dBμV)	CFR 47 Part 15		RSS-210	
					Limit (dBμV)	Margin (dB)	Limit (dBμV)	Margin (dB)
0.160	Quasi-Peak	45.7	0.0	45.7	65.5	19.8		
0.195	Quasi-Peak	44.9	0.0	44.9	63.8	18.9		
0.240	Quasi-Peak	43.7	0.0	43.7	62.1	18.4		
0.285	Quasi-Peak	42.7	0.0	42.7	60.7	18.0		
0.360	Quasi-Peak	41.5	0.0	41.5	58.7	17.2		
0.445	Quasi-Peak	37.5	0.0	37.5	57.0	19.5		
0.535	Quasi-Peak	29.1	0.0	29.1	56.0	26.9	48.0	18.9

Tested on:

N

Frequency (MHz)	Detector	Reading Value (dBμV)	Correction Factor (dB)	Final Value (dBμV)	CFR 47 Part 15		RSS-210	
					Limit (dBμV)	Margin (dB)	Limit (dBμV)	Margin (dB)
0.160	Quasi-Peak	45.8	0.0	45.8	65.5	19.7		
0.195	Quasi-Peak	45.0	0.0	45.0	63.8	18.8		
0.245	Quasi-Peak	43.7	0.0	43.7	61.9	18.2		
0.295	Quasi-Peak	42.5	0.0	42.5	60.4	17.9		
0.370	Quasi-Peak	41.2	0.0	41.2	58.5	17.3		
0.445	Quasi-Peak	37.0	0.0	37.0	57.0	20.0		
0.535	Quasi-Peak	28.8	0.0	28.8	56.0	27.2	48.0	19.2

Sample calculation of final values:

$$\text{Final Value (dB}\mu\text{V)} = \text{Reading Value (dB}\mu\text{V)} + \text{Correction Factor (dB)}$$

Spurious Radiation Measurement

Rules and Specifications:	15.109,	
Guide:	ANSI C63.4-2003	
Limit:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated at least 50 dB below the level of the fundamental or to the general radiated emission limits below, whichever is the lesser attenuation	
	Frequency of Emission (MHz)	Field Strength (microvolts/meter)
	30 - 88	100
	88 - 216	150
	216 - 960	200
	Above 960	500

Tested Frequency:	RX Mode, middle RF Channel
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dBμV)	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dBμV/m)	Limit (dBμV/m)	Margin (dB)
206.800	horizontal	Peak	21.4	12.2		33.6	43.5	9.9

Test Results:	Pass
----------------------	-------------

Sample calculation of erp values:

$$\text{Field Strength (dBμV/m)} = \text{Analyzer Reading (dBμV)} + \text{Correction Factor (dB/m)}$$

8. Referenced Regulations

All tests were performed with reference to the following regulations and standards:

☒	CFR 47 Part 2	Code of Federal Regulations Part 2 (Frequency allocation and radio treaty matters; General rules and regulations) of the Federal Communication Commission (FCC)	October 10, 2004
☒	CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	April 5, 2005
☒	ANSI C63.4	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	December 11, 2003 (published on January 30, 2004)
☒	RSS-210	Radio Standards Specification RSS-210 Issue 5 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands), published by Industry Canada	November 2001
☒	RSS-102	Radio Standards Specification RSS-102 Issue 1: Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of Humans to Radio Frequency Fields, published by Industry Canada	September 1999
☐	ICES-003	Interference-Causing Equipment Standard ICES-003 Issue 4 for Digital Apparatus, published by Industry Canada	February 2004
☒	CISPR 22	Third Edition of the International Special Committee on Radio Interference (CISPR), Pub. 22, "Information Technology Equipment – Radio Disturbance Characteristics – Limits and Methods of Measurement"	1997
☐	CAN/CSA-CEI/IEC CISPR 22	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	2002
☒	TRC-43	Notes Regarding Designation of Emission (Including Necessary Bandwidth and Classification), Class of Station and Nature of Service, published by Industry Canada	October 9, 1982

Charts taken during testing

Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model:
Handheld Unit

Serial no.:

Applicant:
Daktronics, Inc.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord
Live Wire

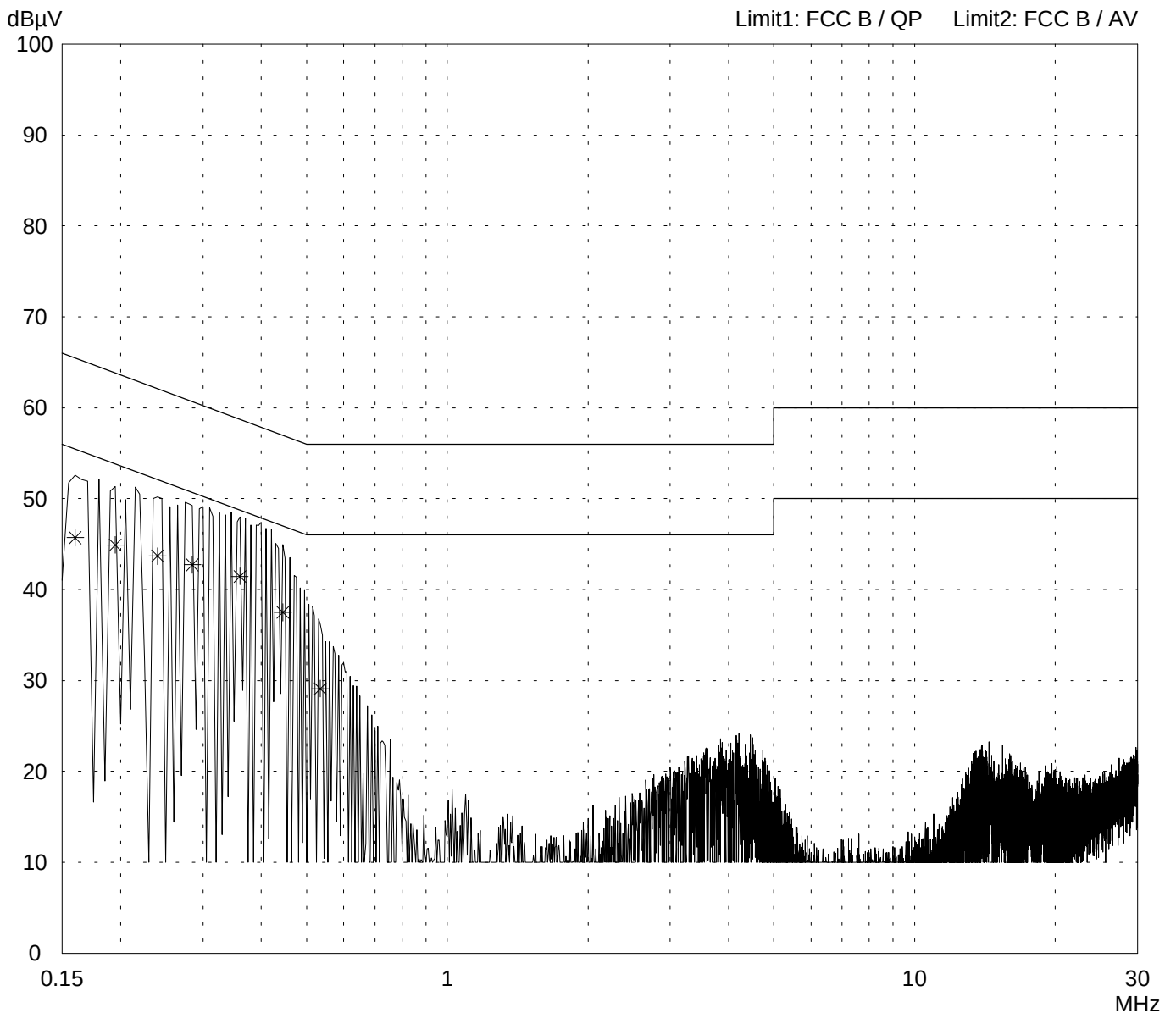
Date of test: 03/24/2005 Operator: J. Roidt

Test performed: automatically File name:

Mode:
AC 110 V

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Pass

Project file:
56111-50118-1

Page of Pages

Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart B Class B

Model:
Handheld Unit

Serial no.:

Applicant:
Daktronics, Inc.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord
Neutral Wire

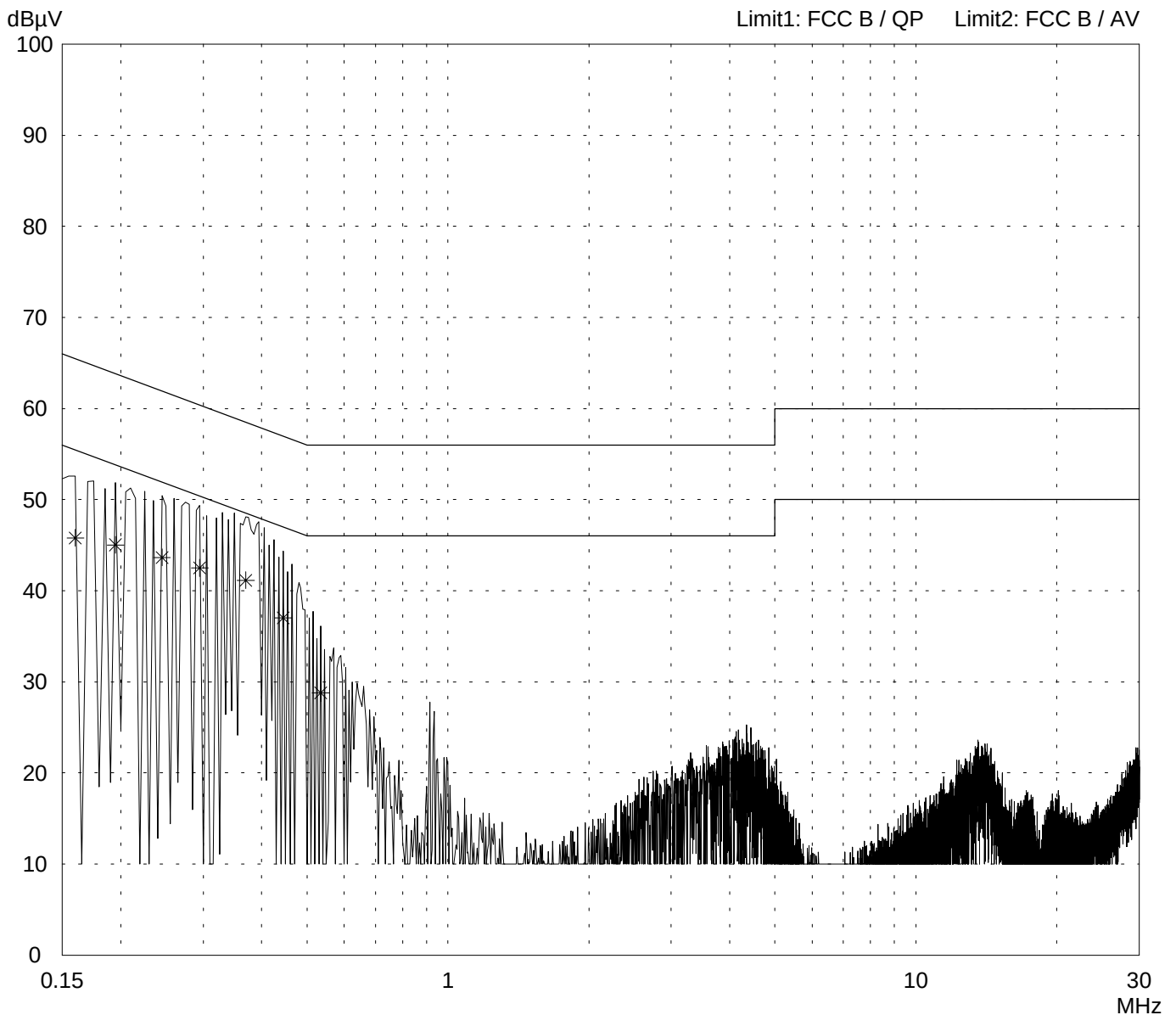
Date of test: 03/24/2005 Operator: J. Roidt

Test performed: automatically File name:

Mode:
AC 110 V

Detector:
Peak / Final Results: QP

Final results:
20 dB Margin 25 Subranges



Result:
Pass

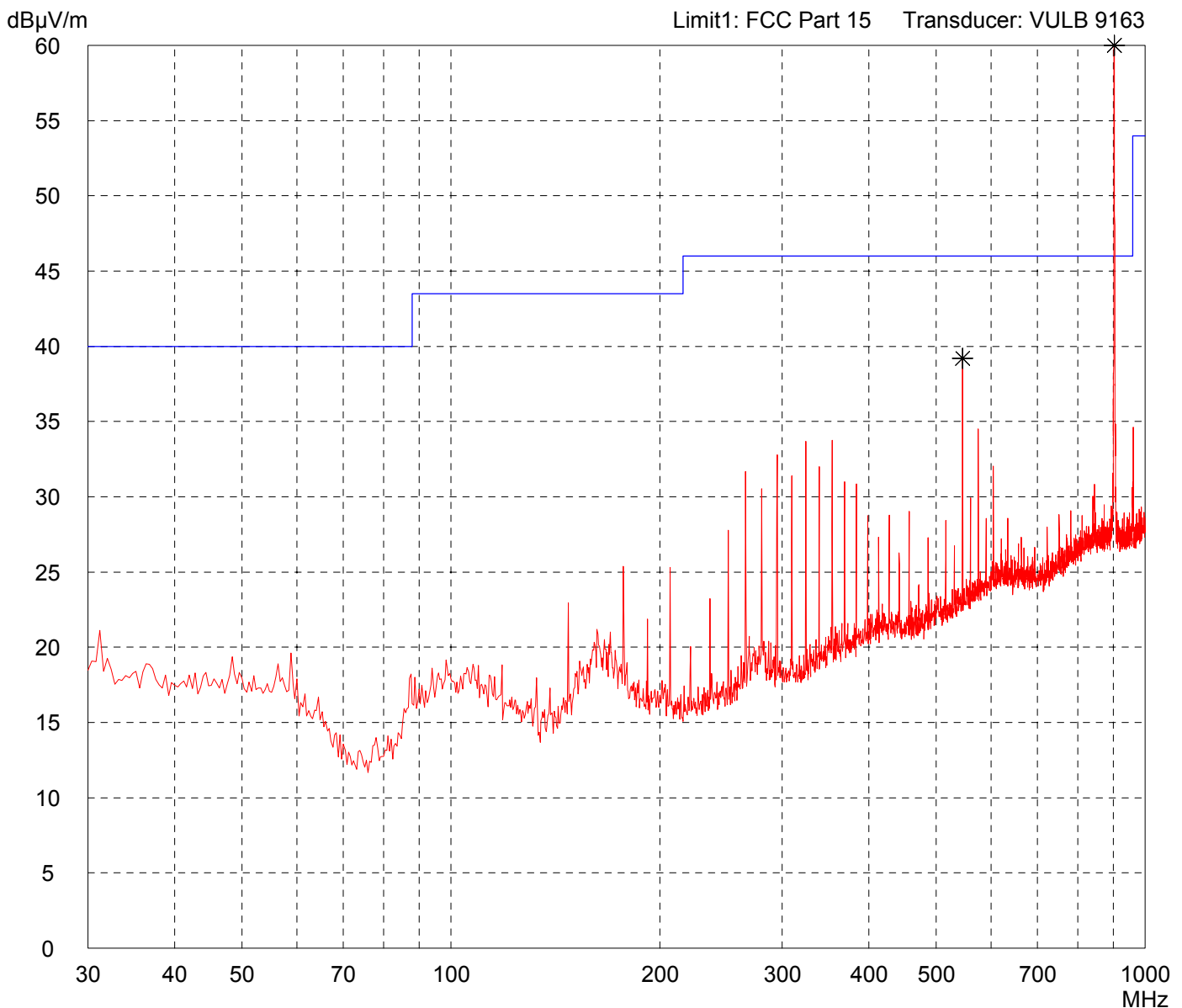
Project file:
56111-50118-1

Page of Pages

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - Low Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin
	50 Subranges

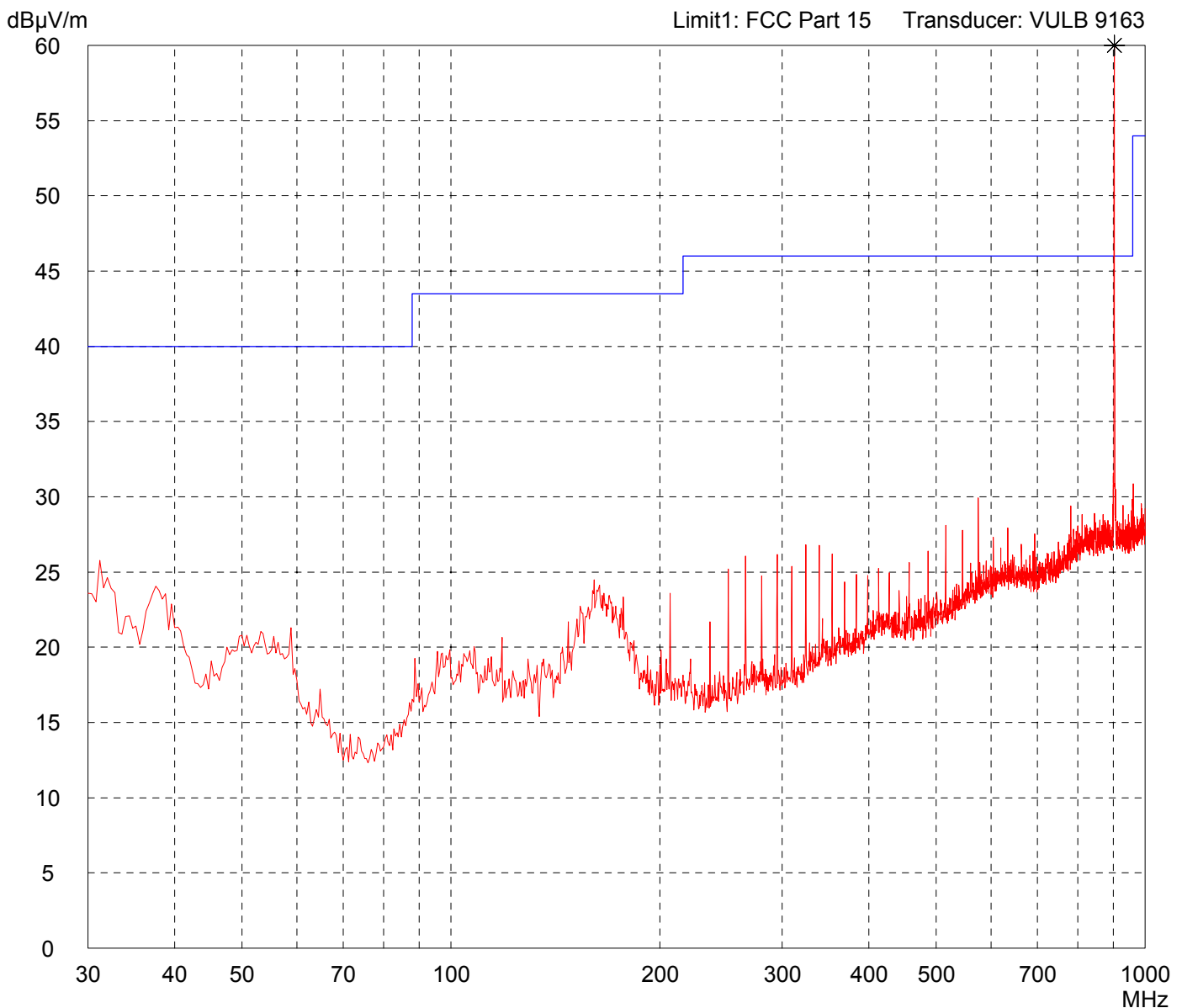


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - Low Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

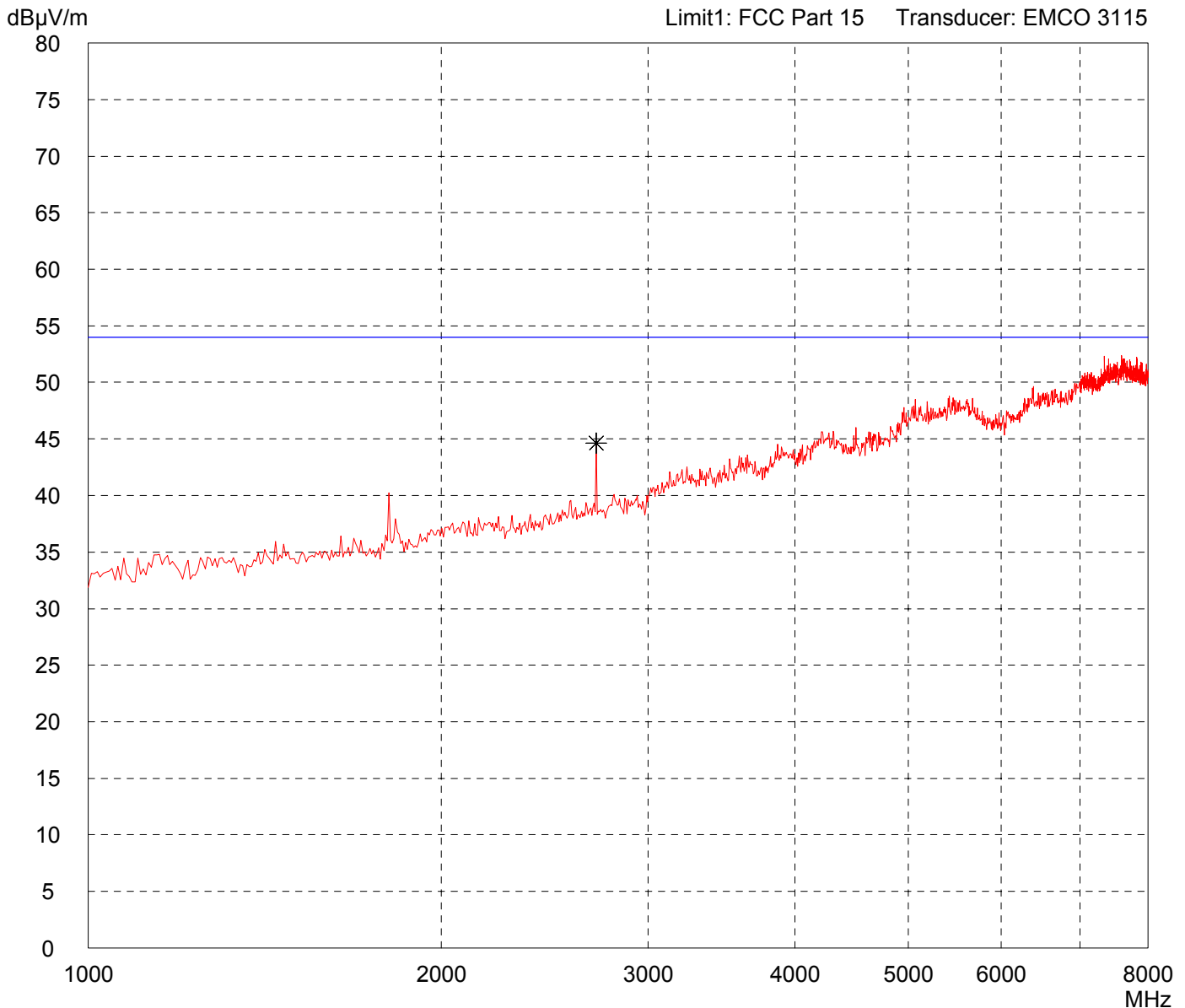


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 (EMCO 3115)

Model: Handheld Unit	Comment: - TX Mode - Low Ch. - With WHKS1000-10SS high-pass-filter
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

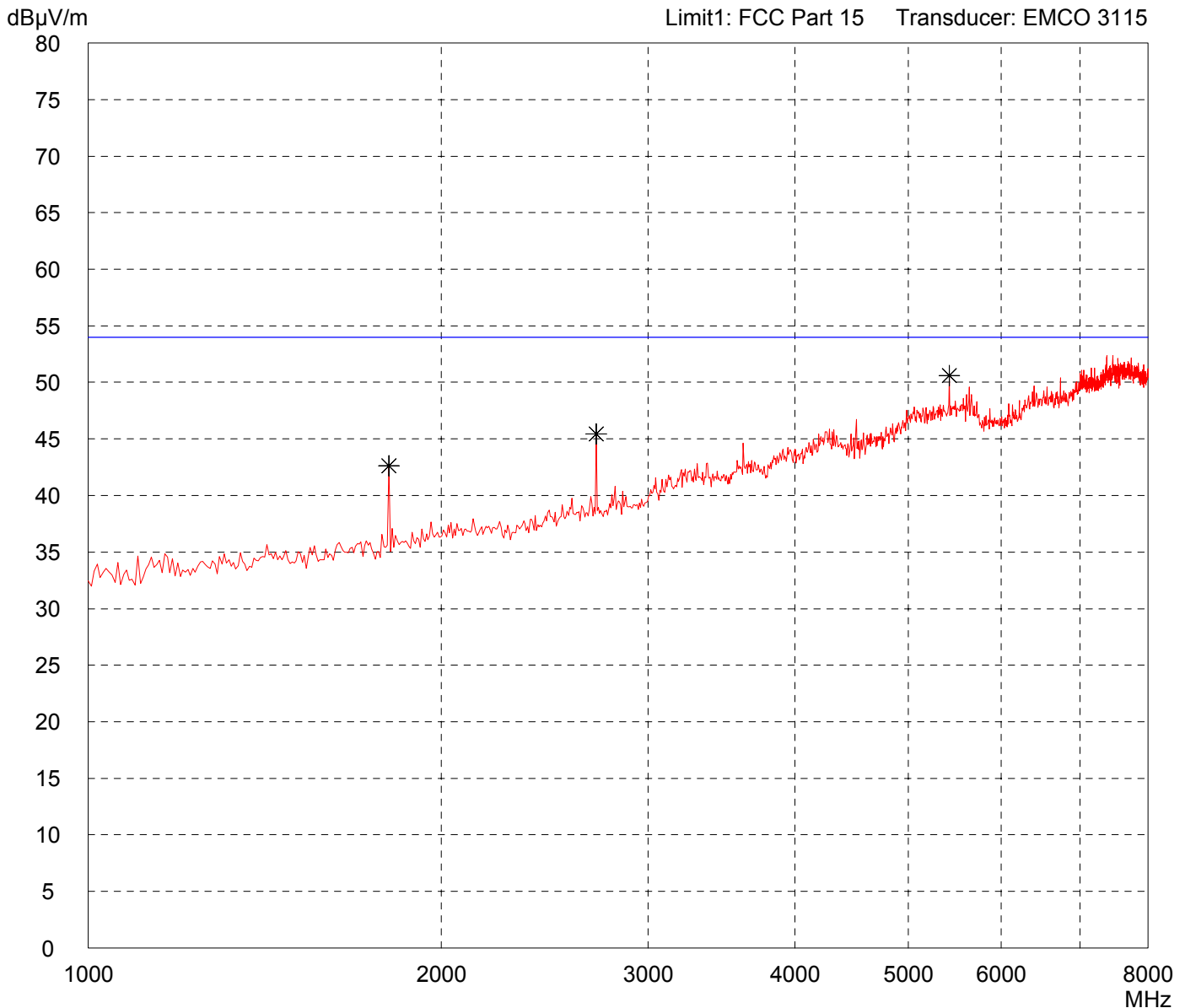


Result: Limit kept	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 (EMCO 3115)

Model: Handheld Unit	Comment: - TX Mode - Low Ch. - With WHKS1000-10SS high-pass-filter
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

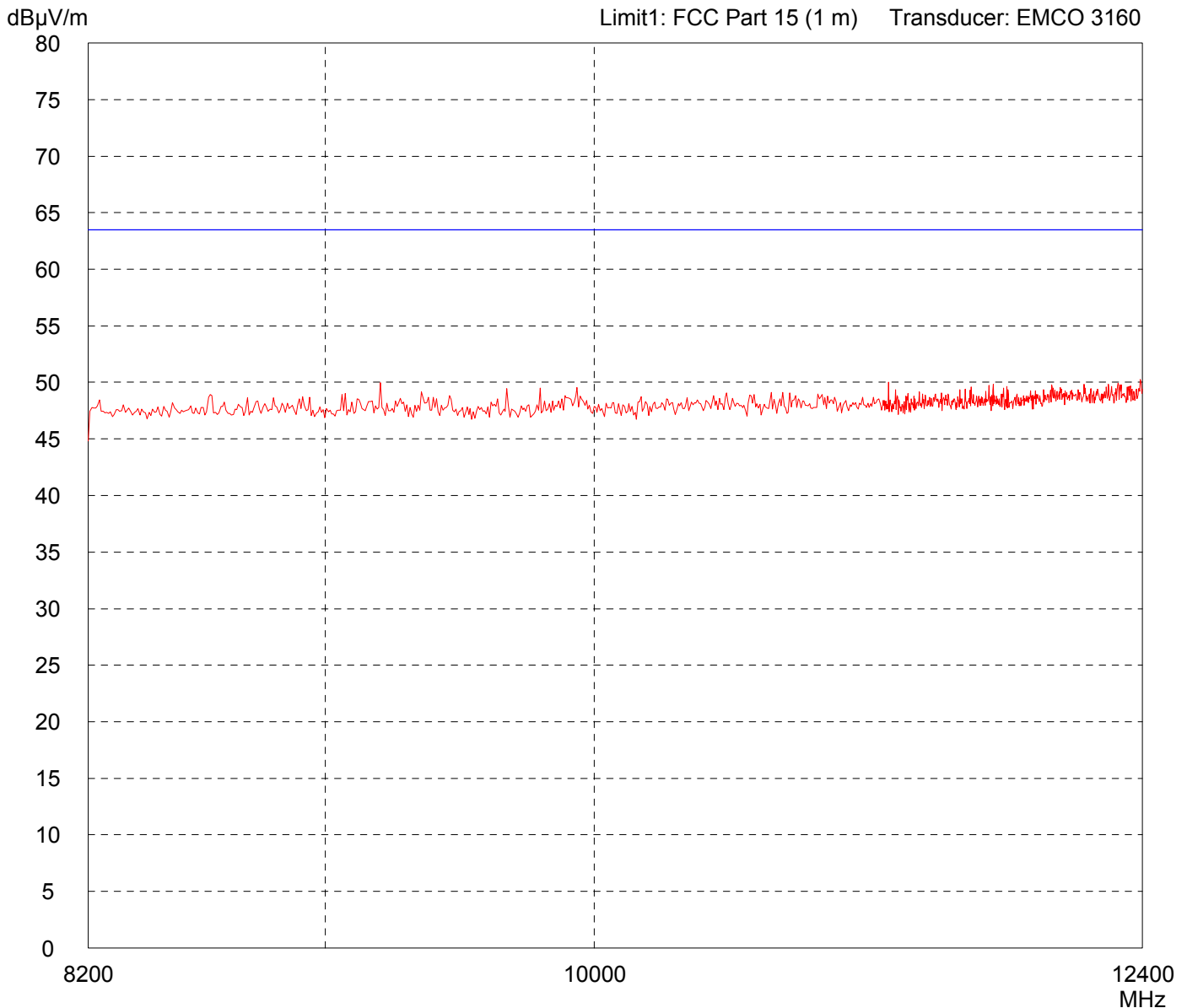


Result: Limit kept	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Handheld Unit	Comment: - TX Mode - Low Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

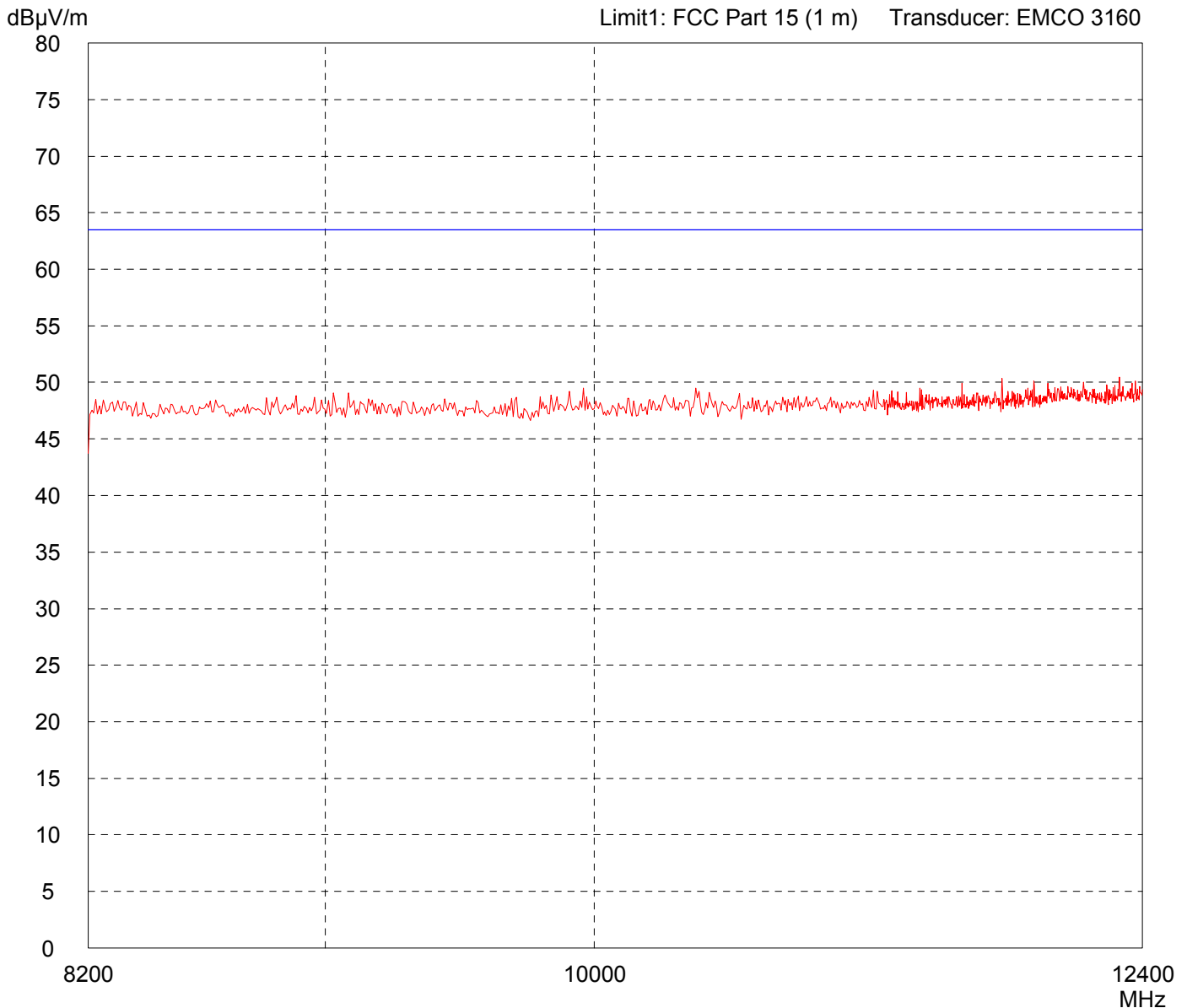


Result: Limit kept	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Handheld Unit	Comment: - TX Mode - Low Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

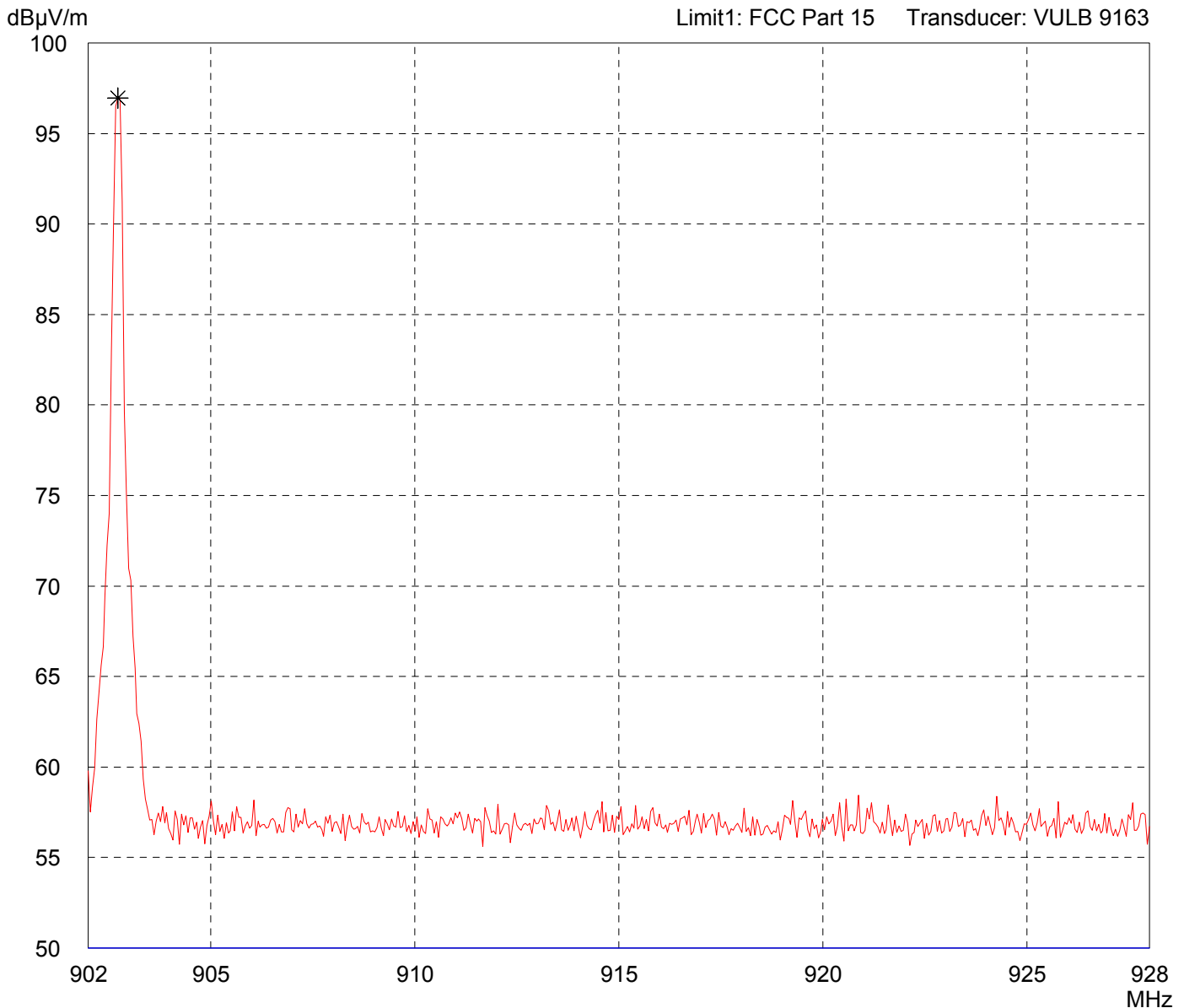


Result: Limit kept	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 902 MHz - 928 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - Low Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

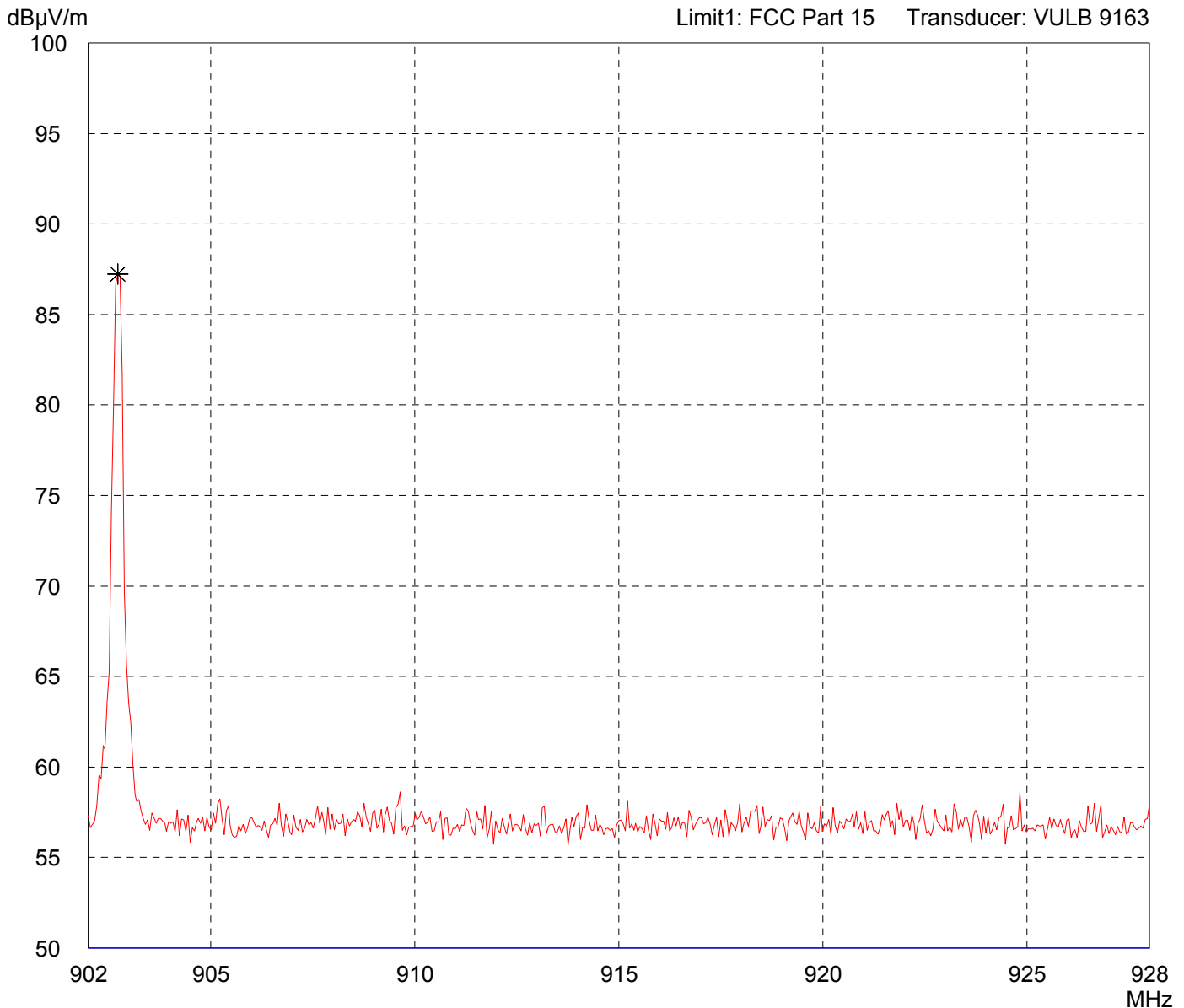


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 902 MHz - 928 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - Low Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

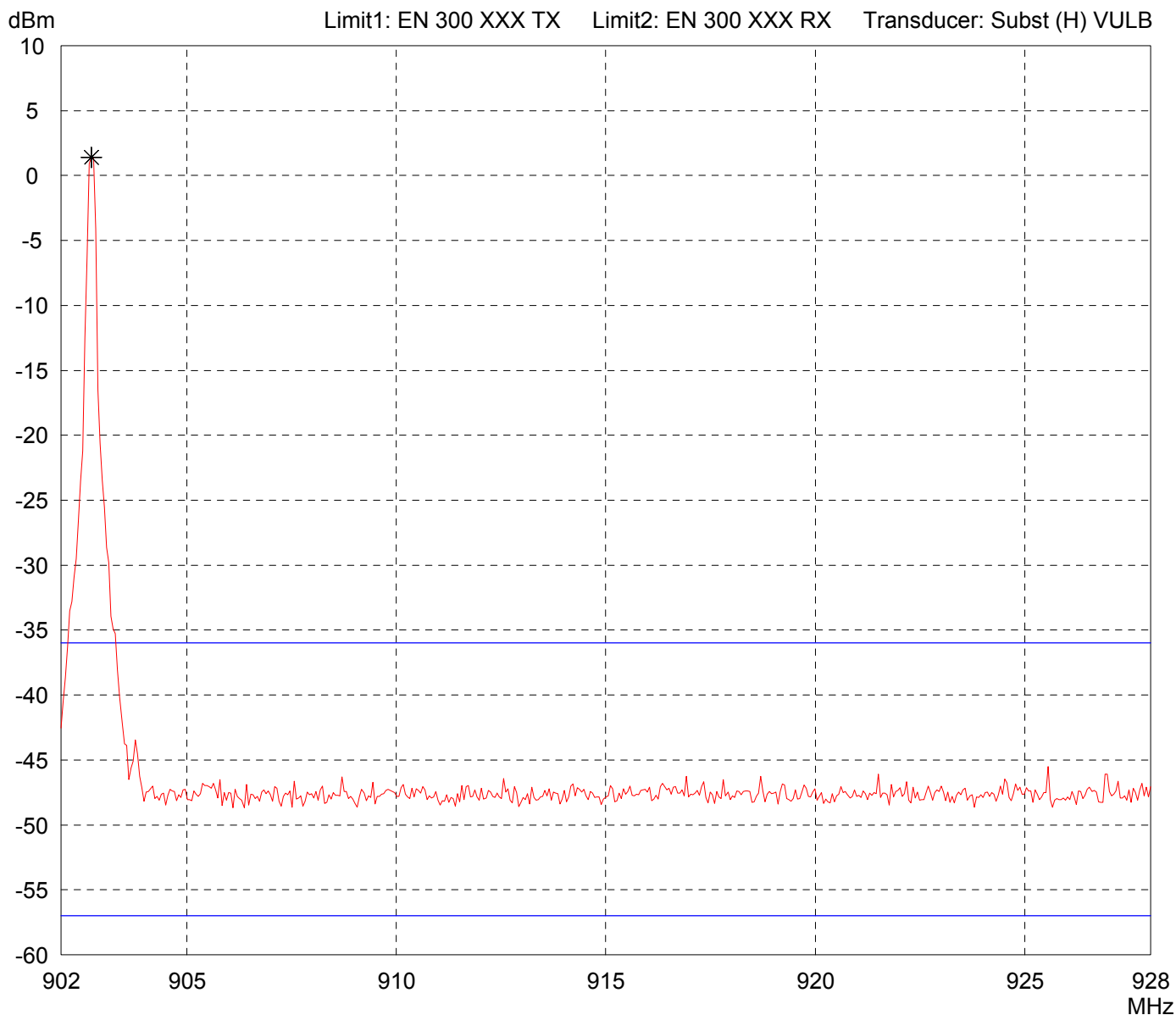


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Power Test 902 MHz - 928 MHz acc. to EN 300 220-1 (VULB9163)

Model: Handheld Unit	Comment: - TX Mode - Low Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3.5 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

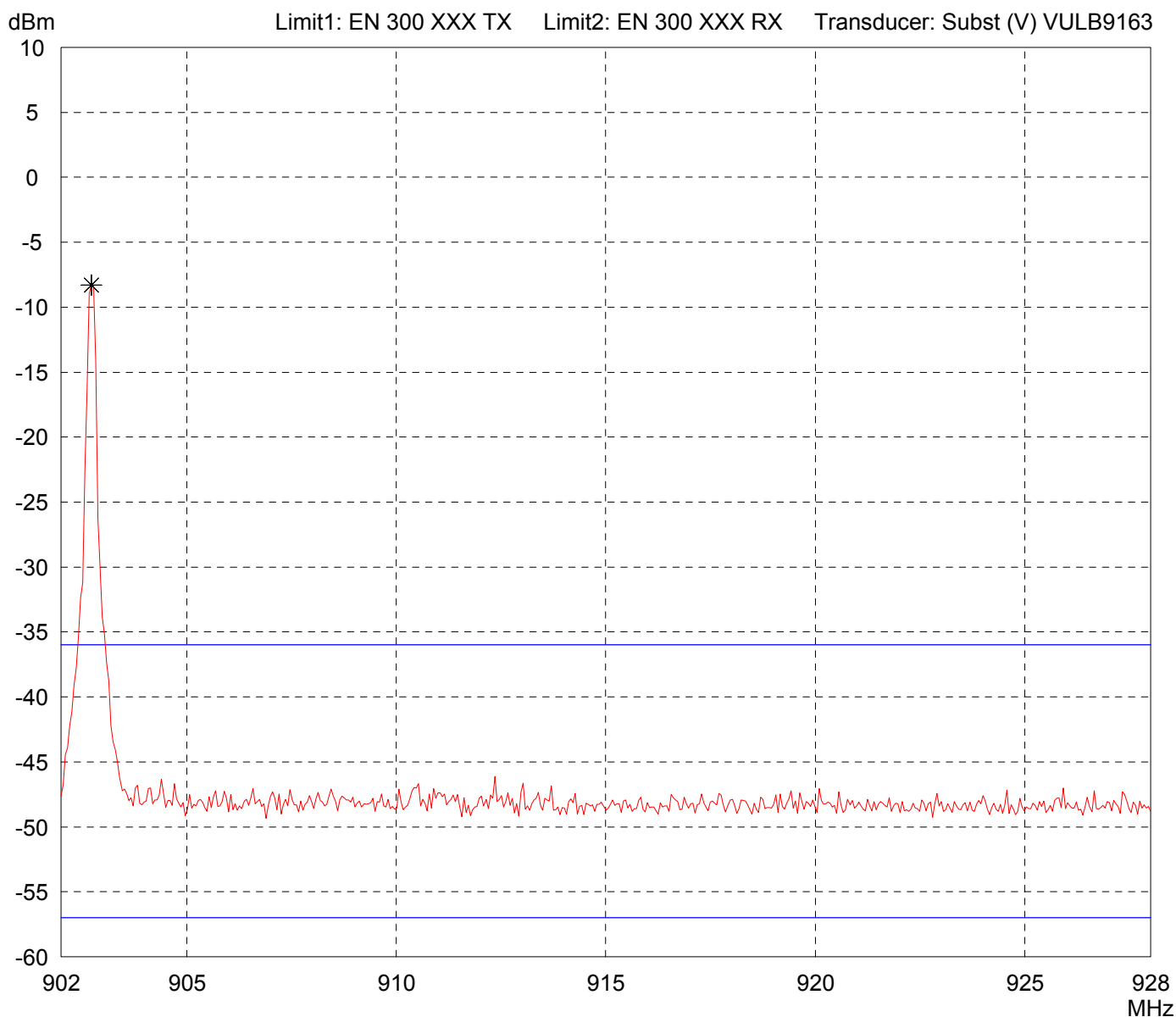


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Power Test 902 MHz - 928 MHz acc. to EN 300 220-1 (VULB9163)

Model: Handheld Unit	Comment: - TX Mode - Low Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3.5 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--



Result: Prescan	Project file: 65111-50118-1
Page of Pages	

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model:
Handheld Unit

Serial no.:

Applicant:
Daktronics, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
**Test distance 3 metres
Horizontal Polarization**

Date of test:
04/07/2005

Operator:
M. Steindl

Test performed:
automatically

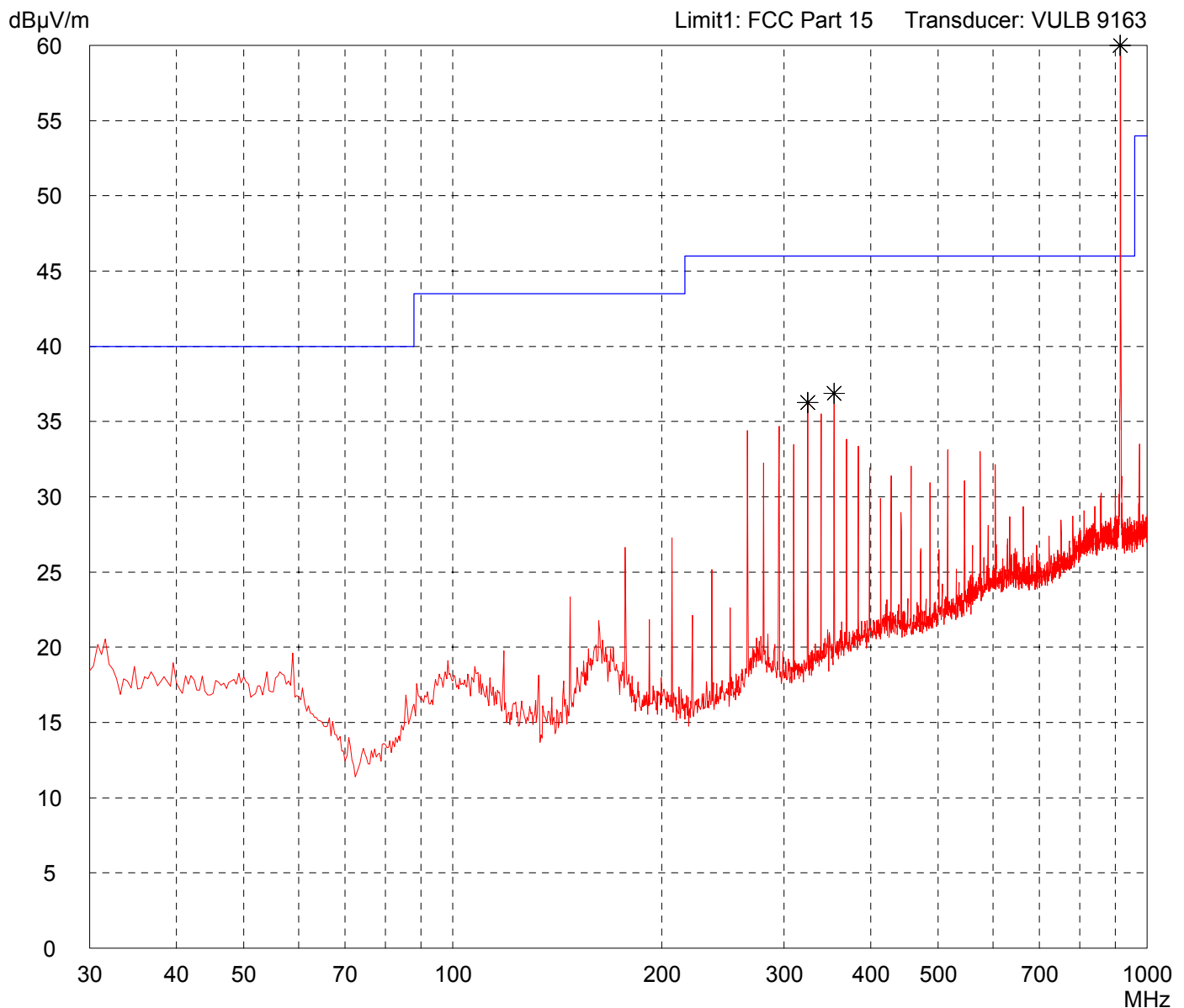
File name:
default.emi

Comment:
- TX Mode
- Mid Ch.

Detector:
Peak

List of values:
10 dB Margin

50 Subranges



Result:
Prescan

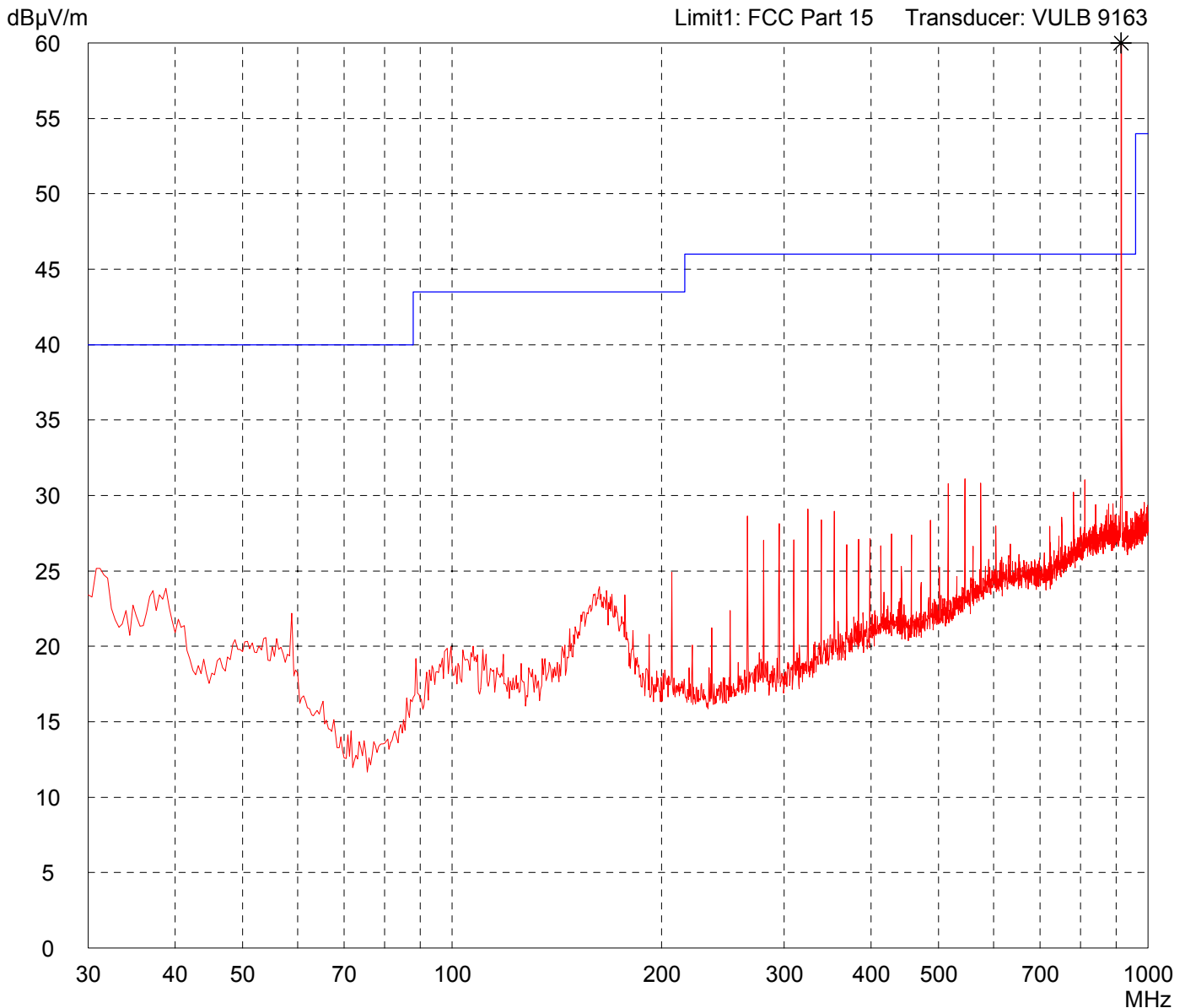
Project file:
65111-50118-1

Page of Pages

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - Mid Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

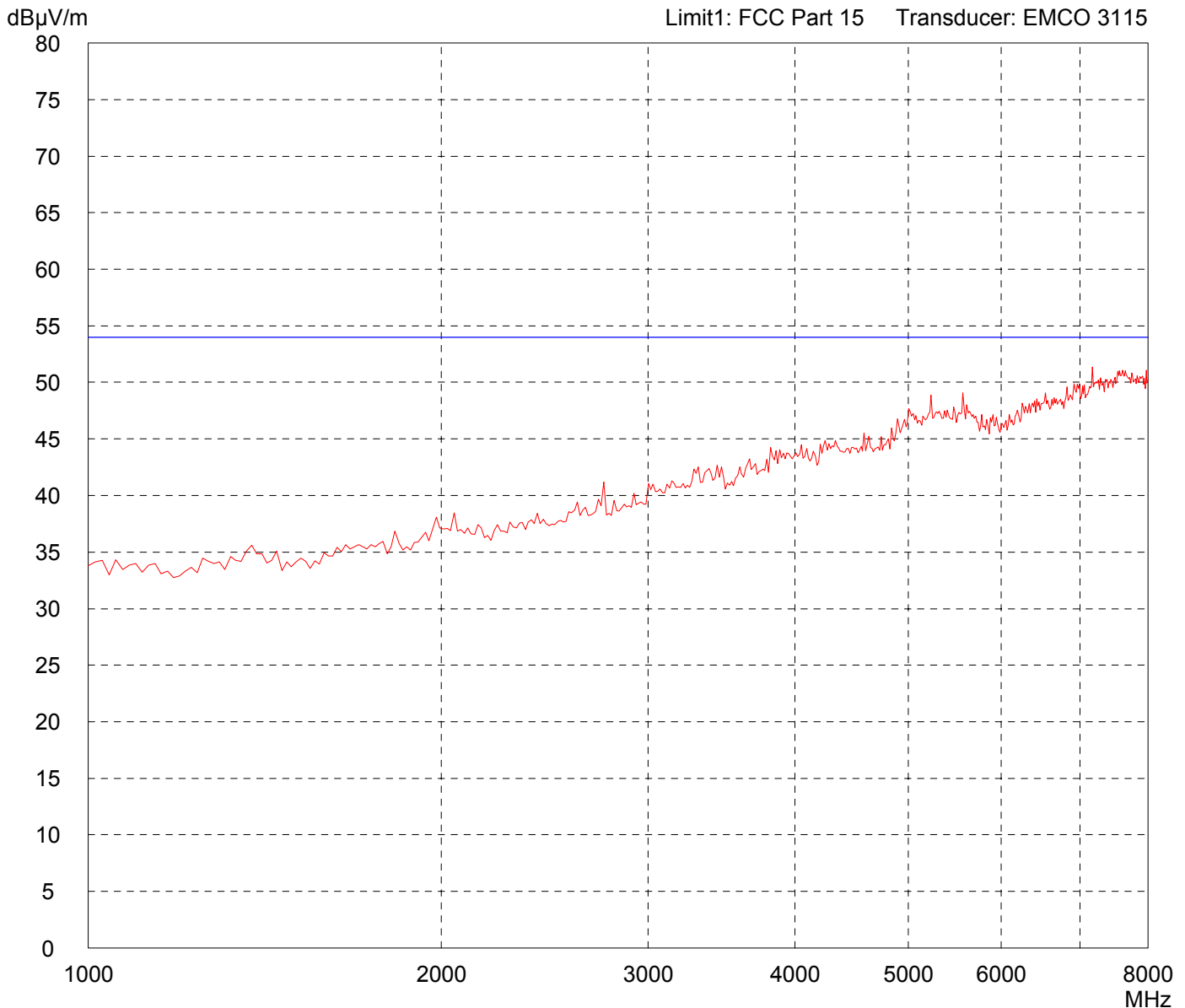


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 (EMCO 3115)

Model: Handheld Unit	Comment: TX-Mode Middle Channel 1 GHz High Pass Filter used
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/22/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

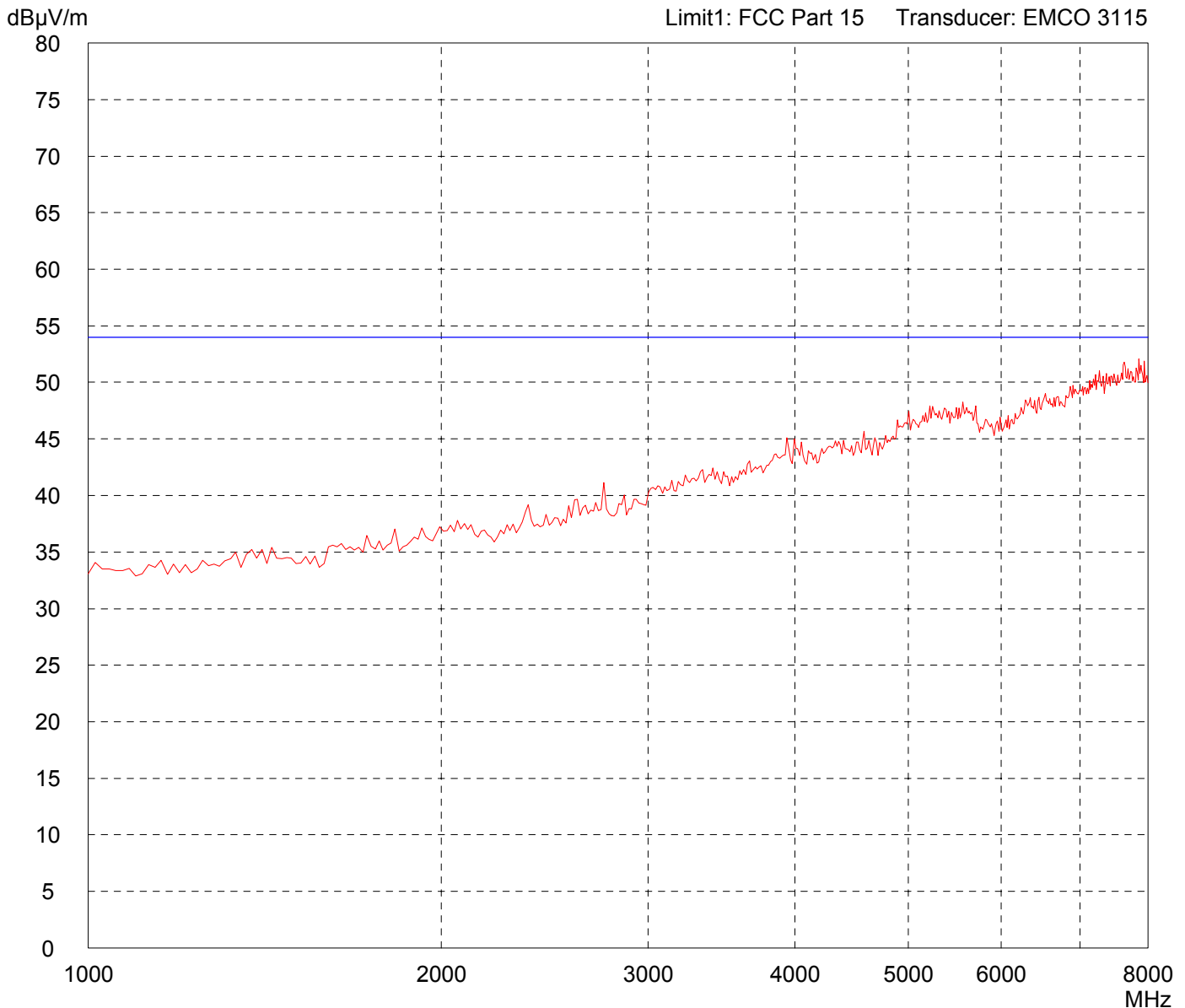


Result: Limit kept	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 (EMCO 3115)

Model: Handheld Unit	Comment: TX-Mode Middle Channel 1 GHz High Pass Filter used
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/22/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

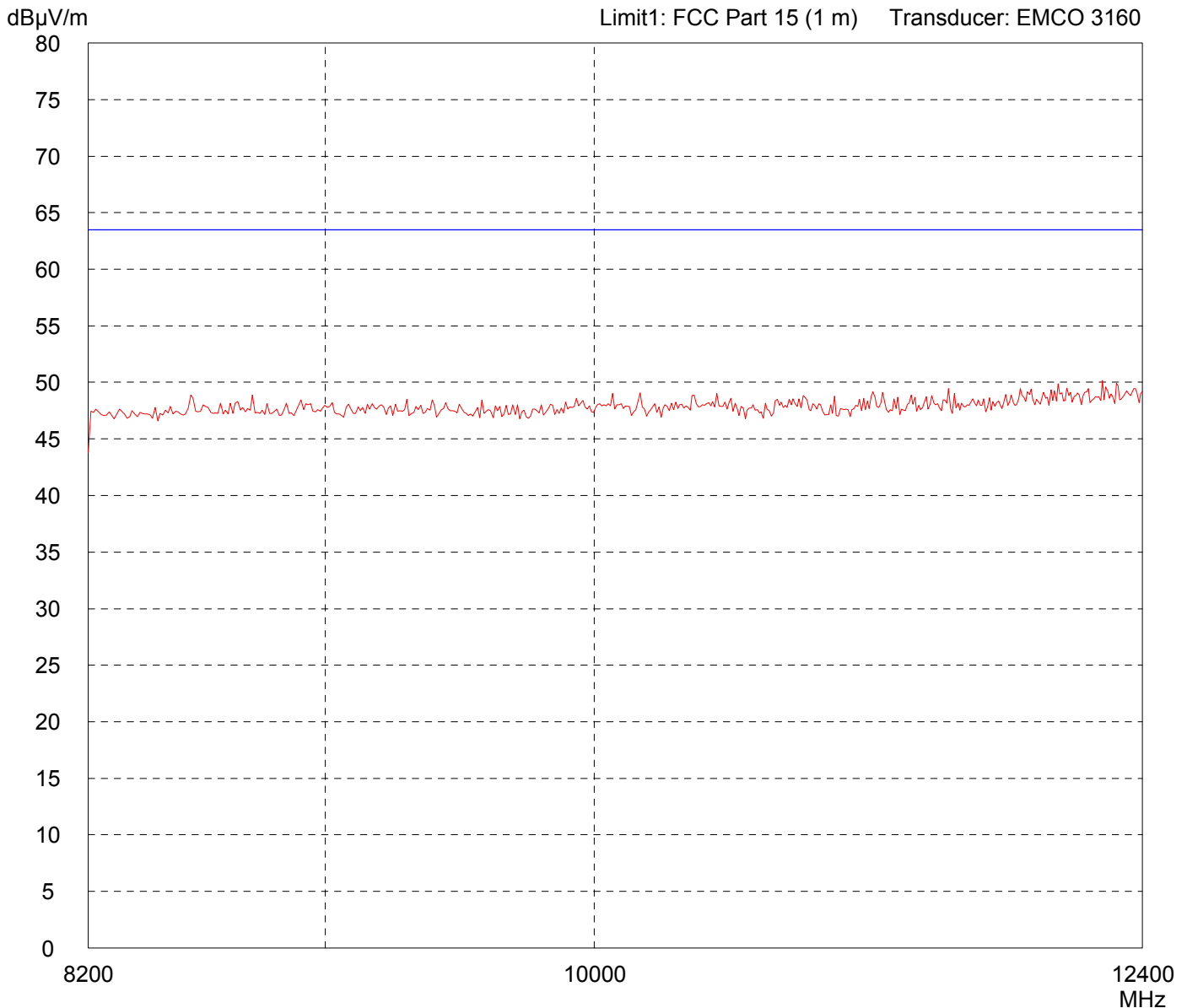


Result: Limit kept	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Handheld Unit	Comment: RX-Mode Middle Channel 1 GHz High Pass Filter used
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 03/22/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

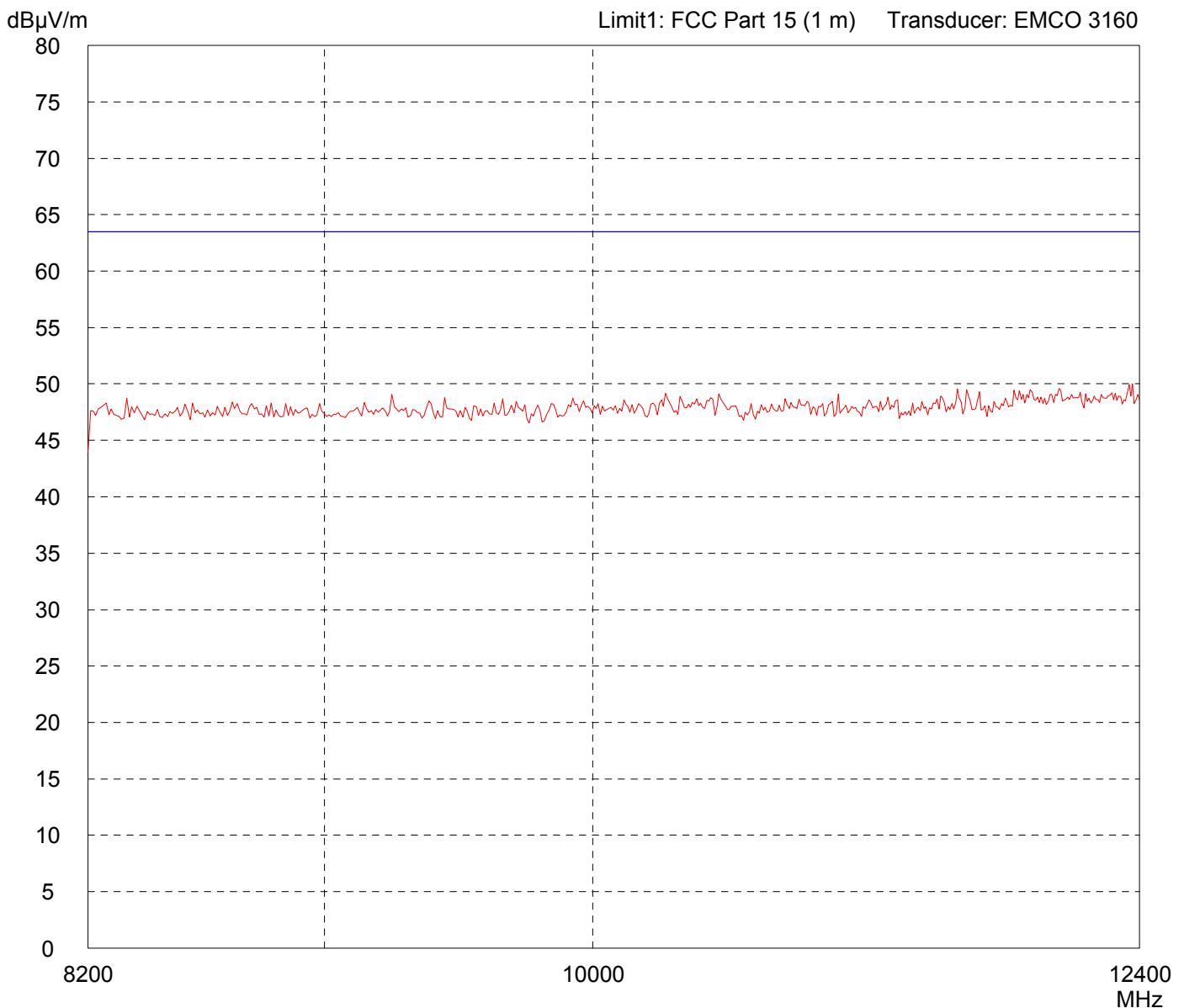


Result: Limit kept	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Handheld Unit	Comment: RX-Mode Middle Channel 1 GHz High Pass Filter used
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 03/22/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

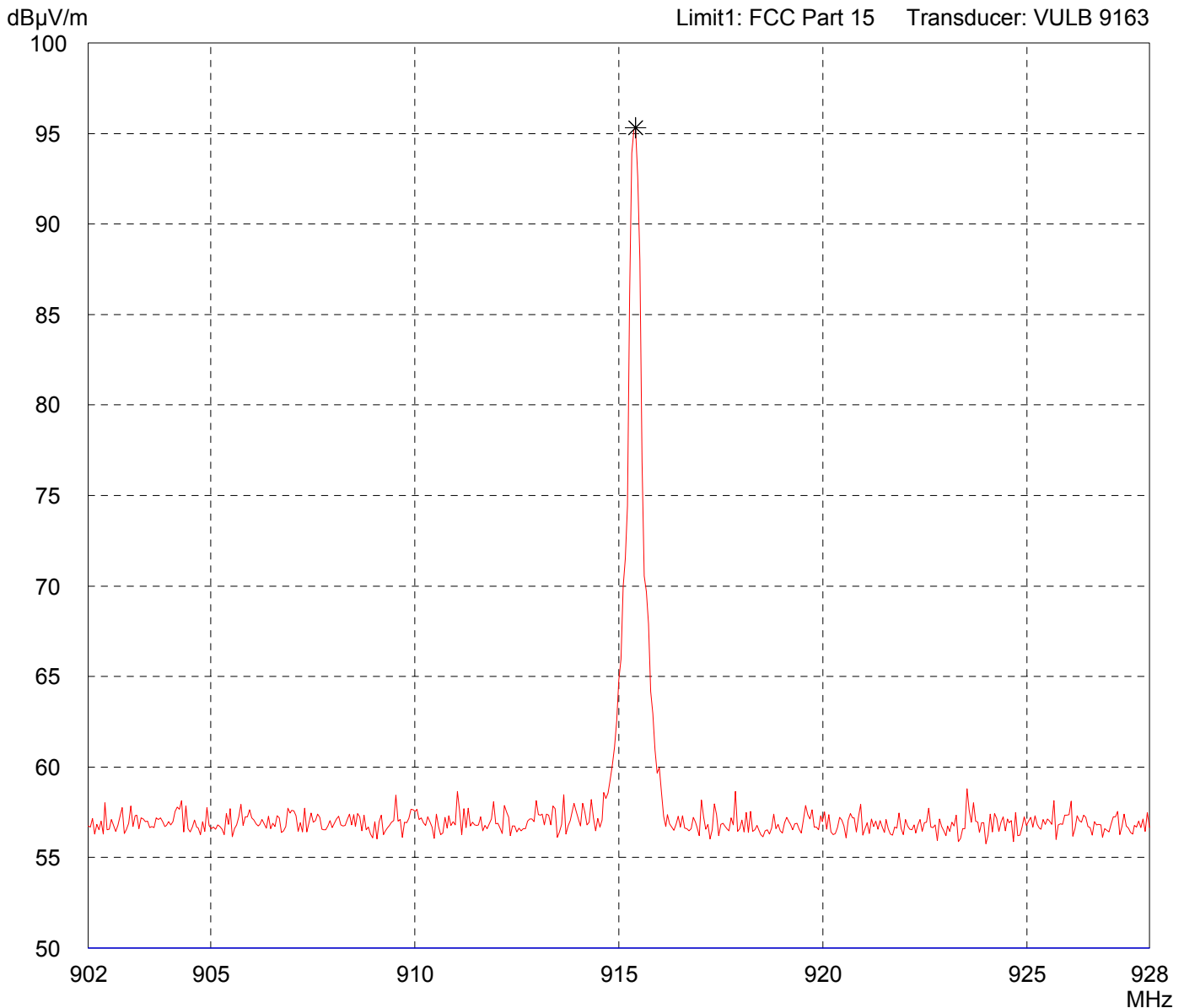


Result: Limit kept	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 902 MHz - 928 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - Mid Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

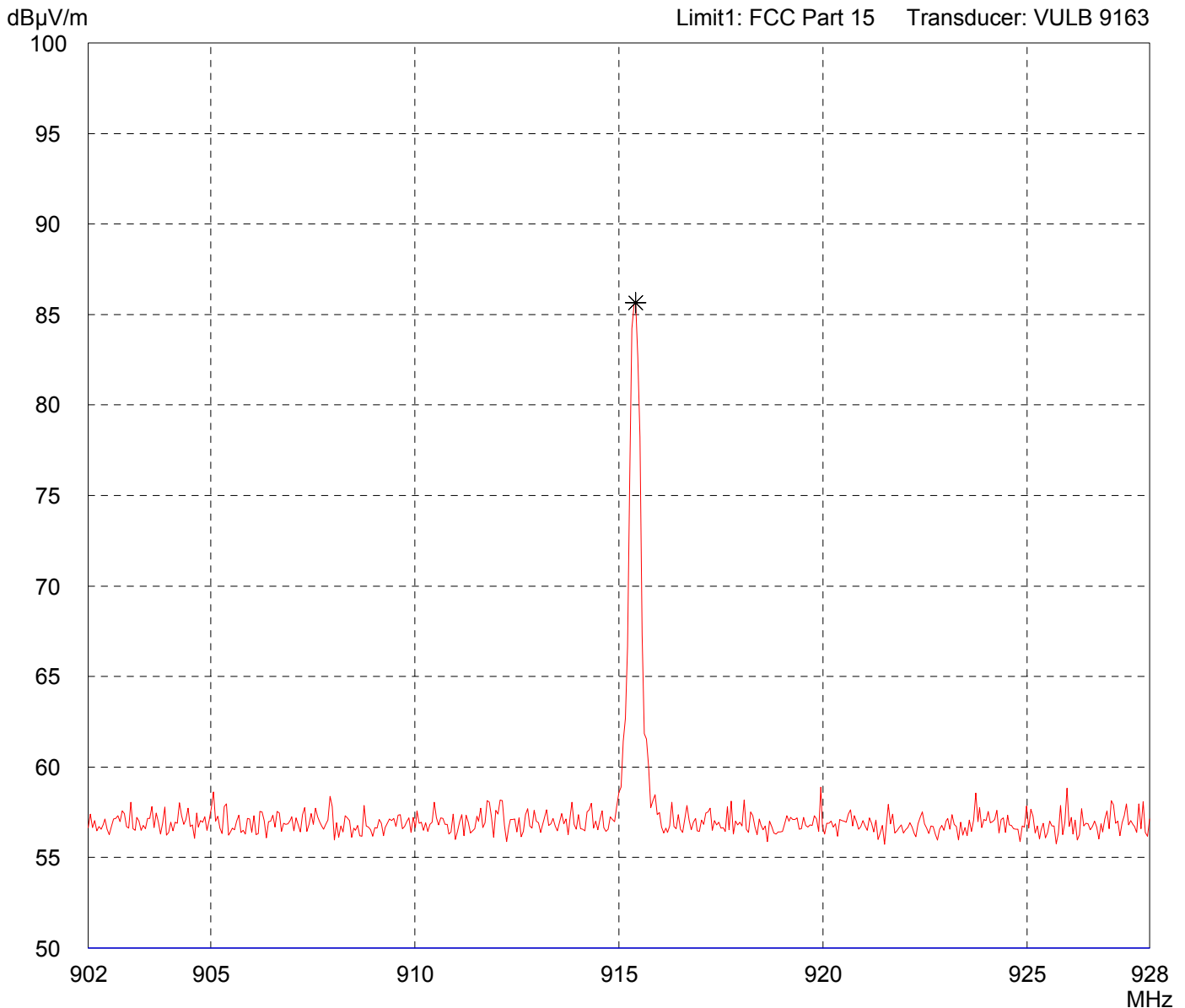


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 902 MHz - 928 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - Mid Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

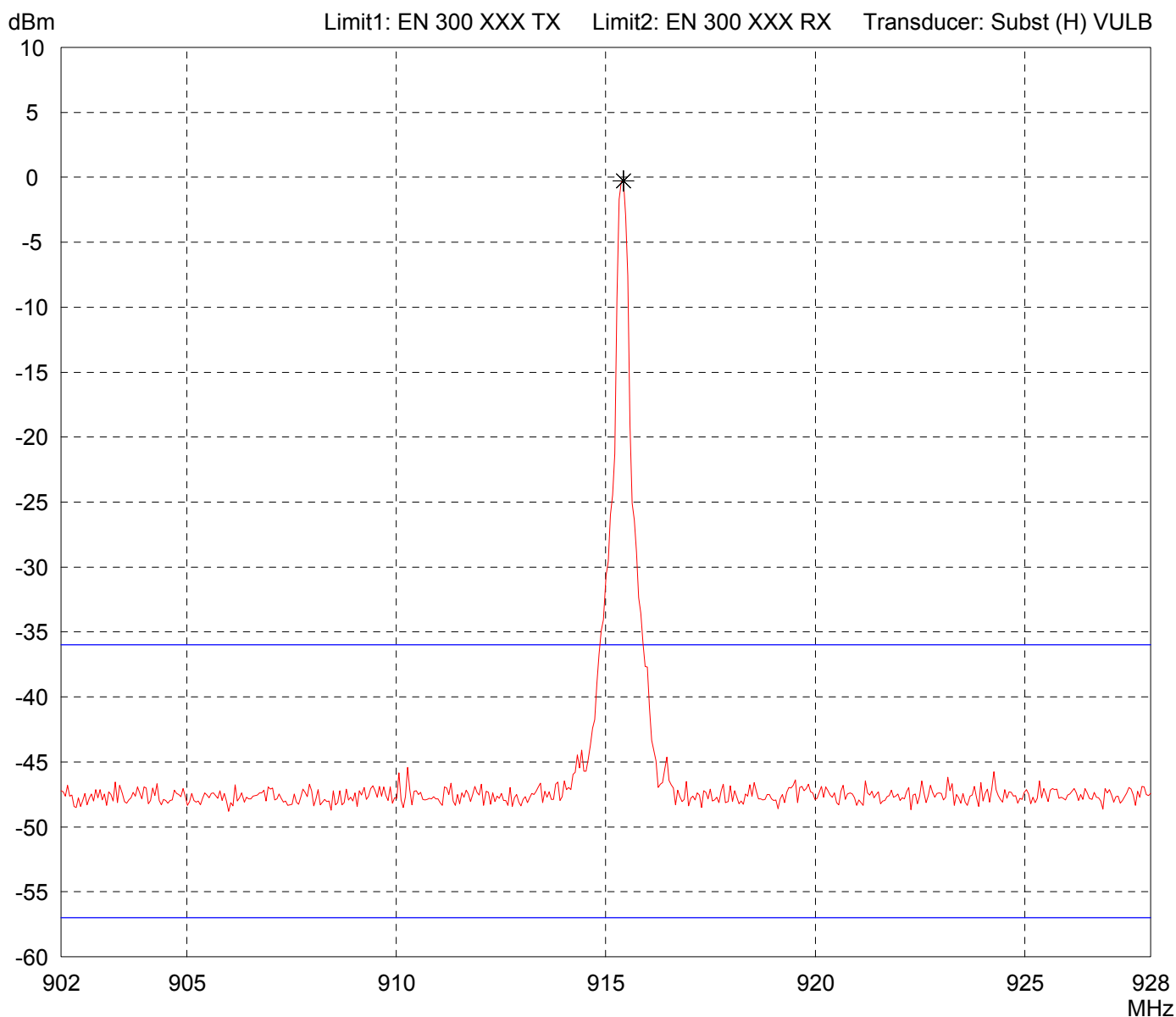


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Power Test 902 MHz - 928 MHz acc. to EN 300 220-1 (VULB9163)

Model: Handheld Unit	Comment: - TX Mode - Mid Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3.5 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

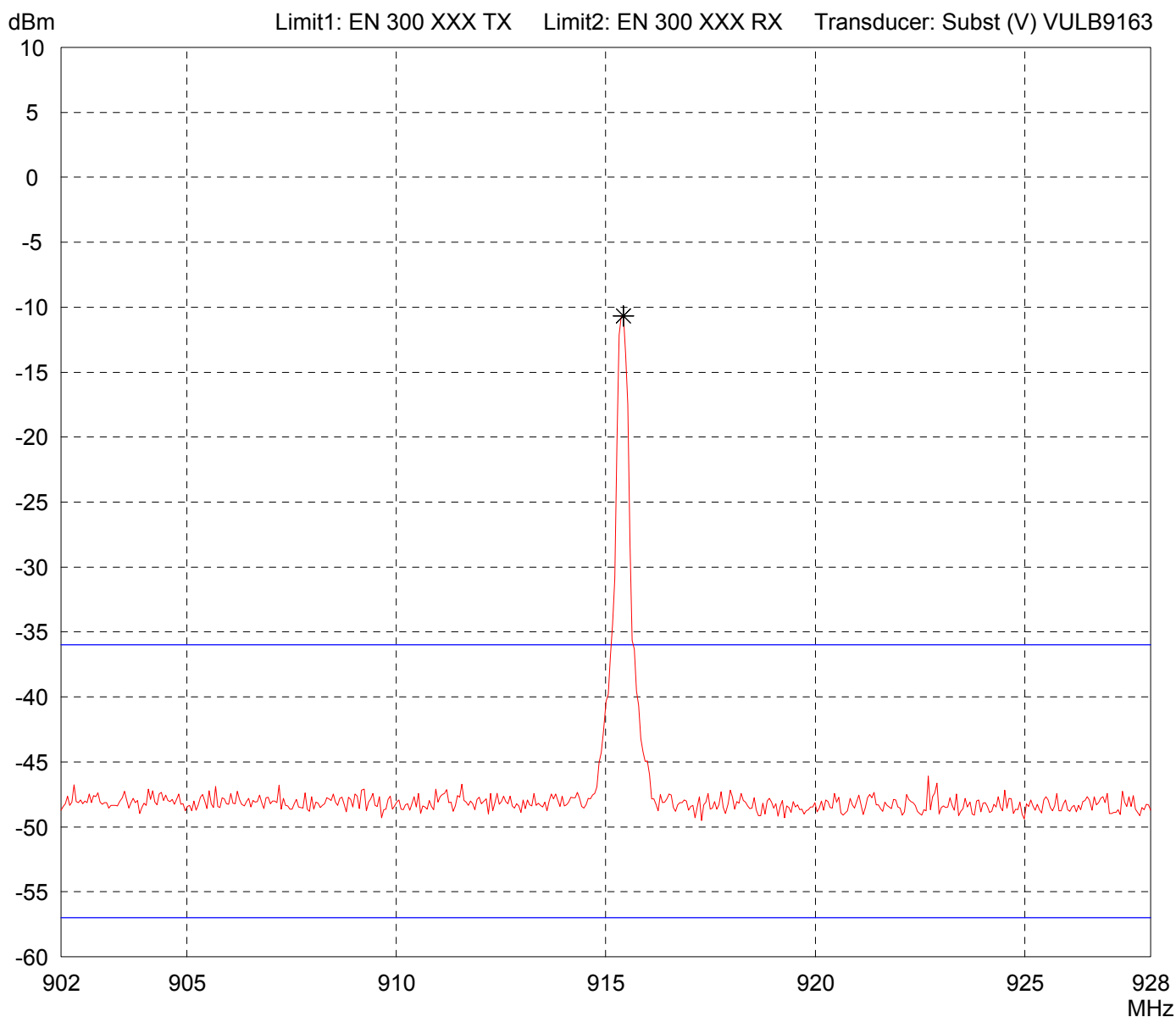


Result: Prescan	Project file: 65111-50118-1
Page of Pages	

Radiated Power Test 902 MHz - 928 MHz acc. to EN 300 220-1 (VULB9163)

Model: Handheld Unit	Comment: - TX Mode - Mid Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3.5 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

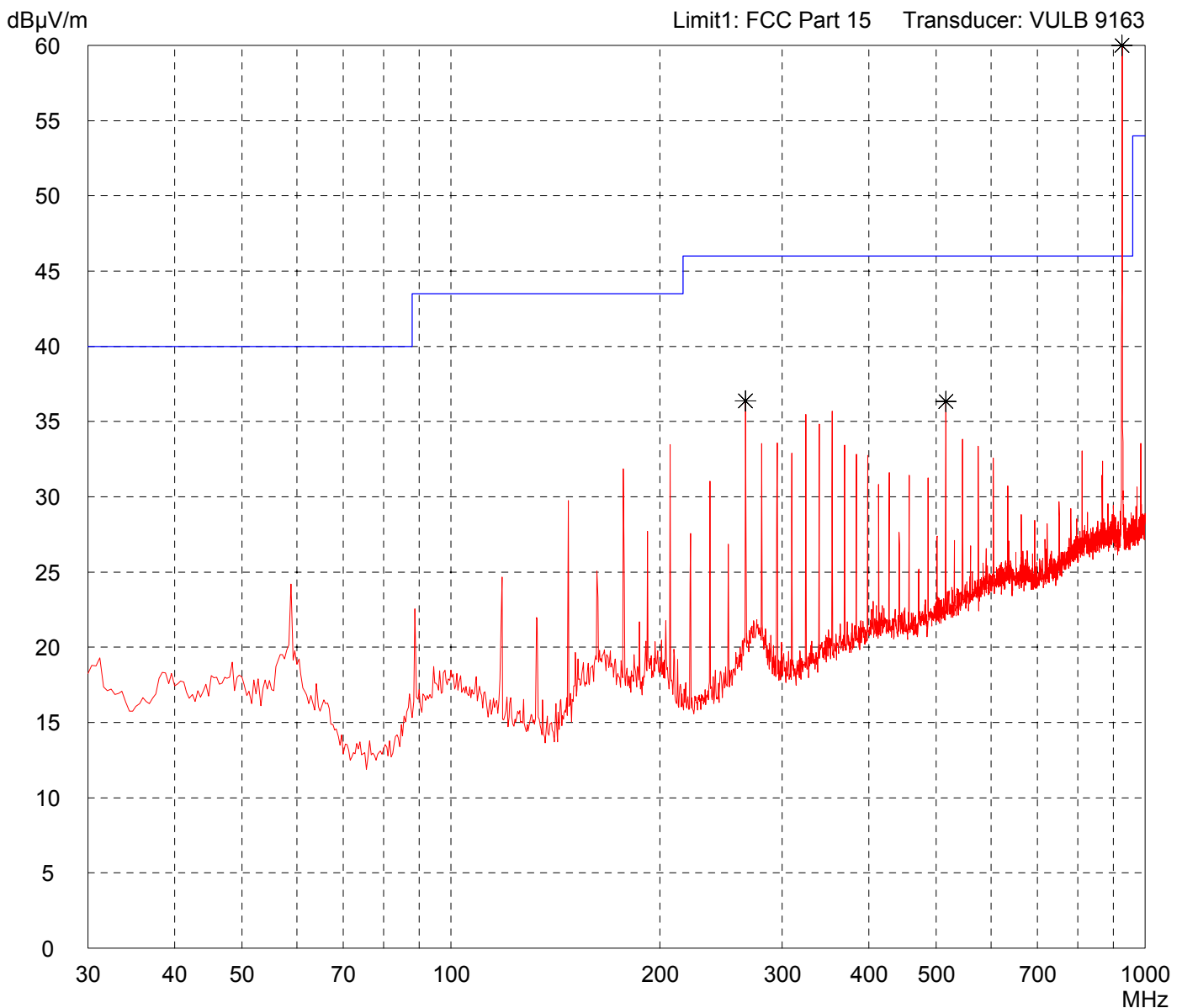


Result: Prescan	Project file: 65111-50118-1
Page of Pages	

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - High Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin
	50 Subranges

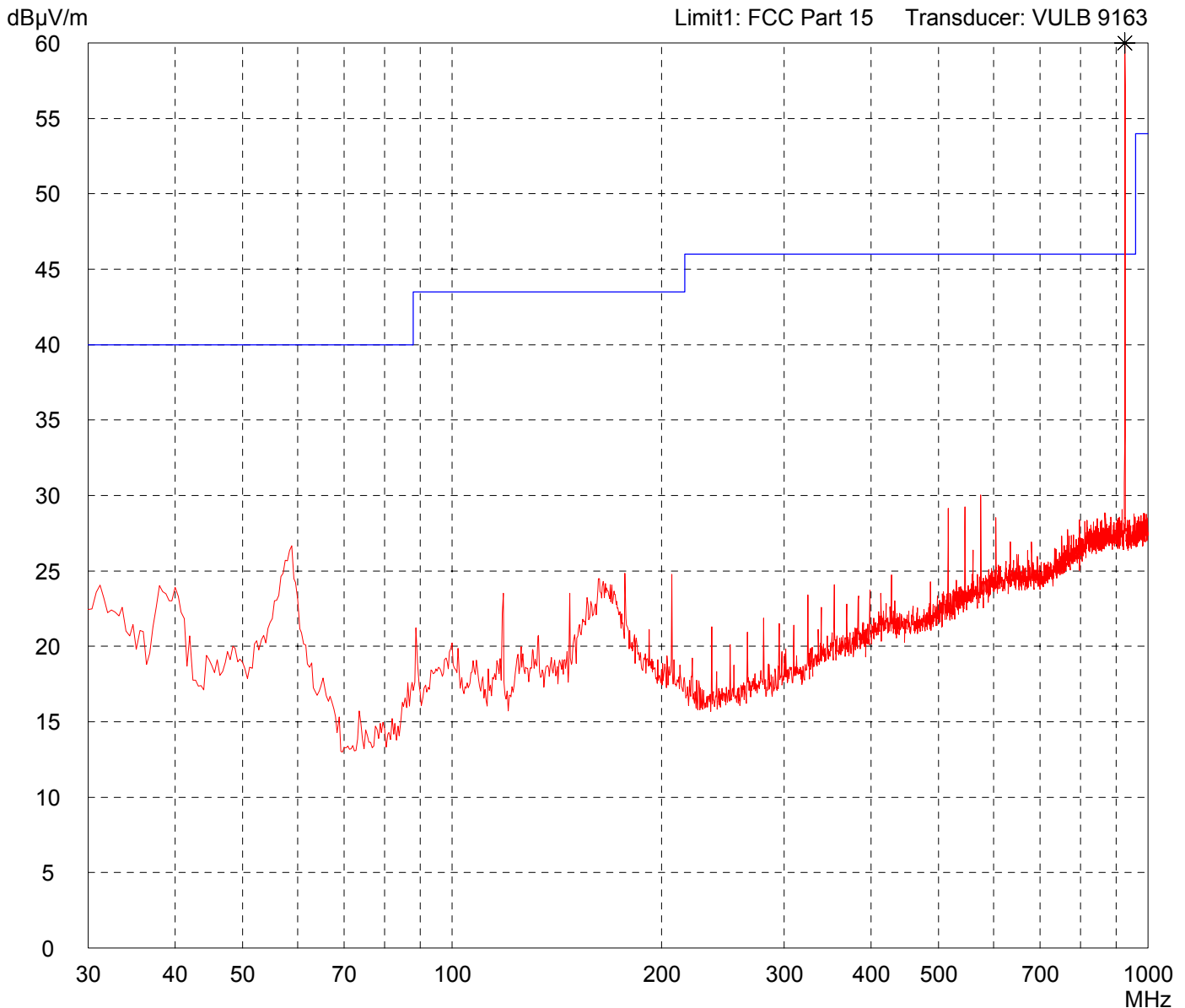


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - High Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

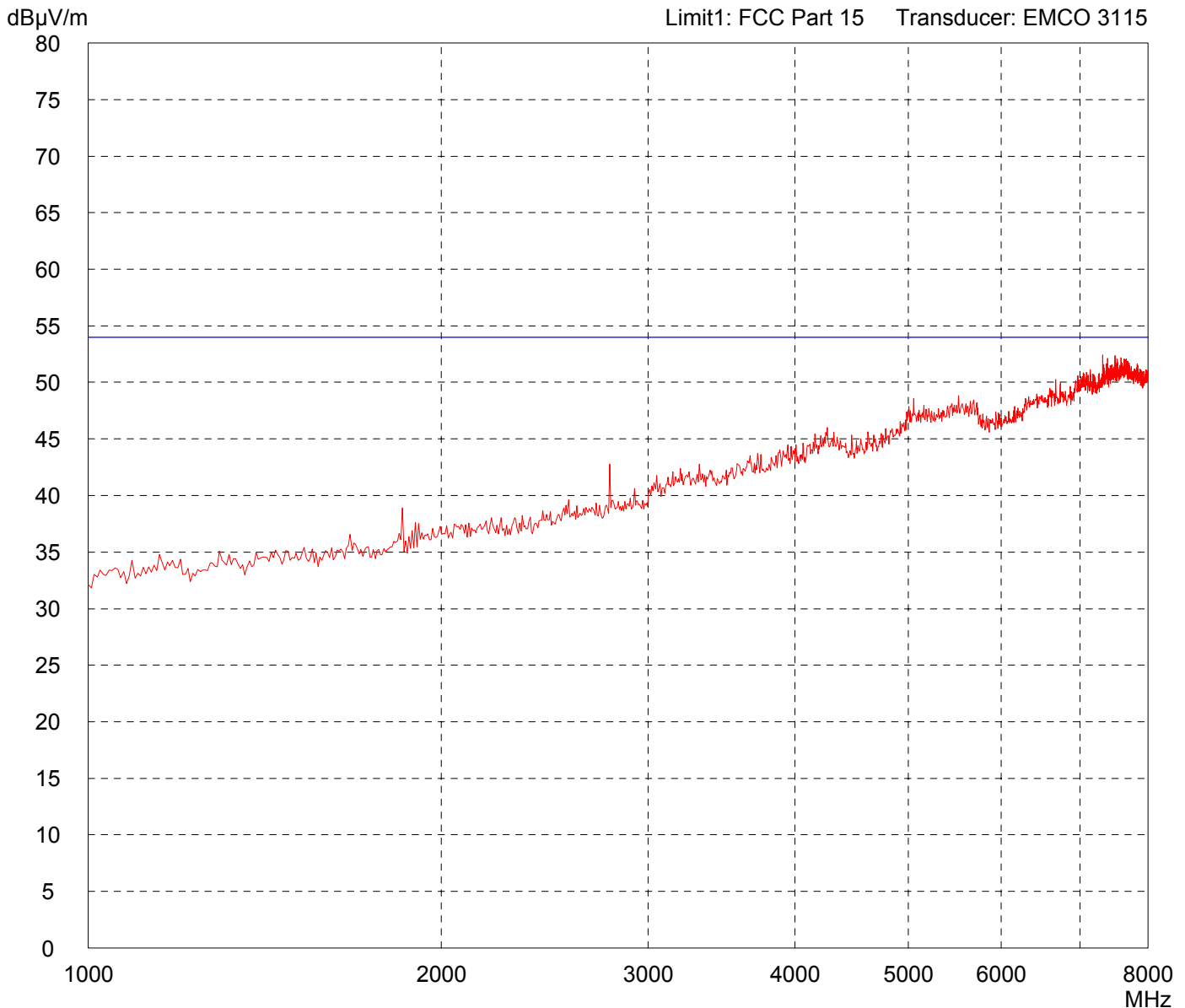


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 (EMCO 3115)

Model: Handheld Unit	Comment: - TX Mode - High Ch. - With WHKS1000-10SS high-pass-filter
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

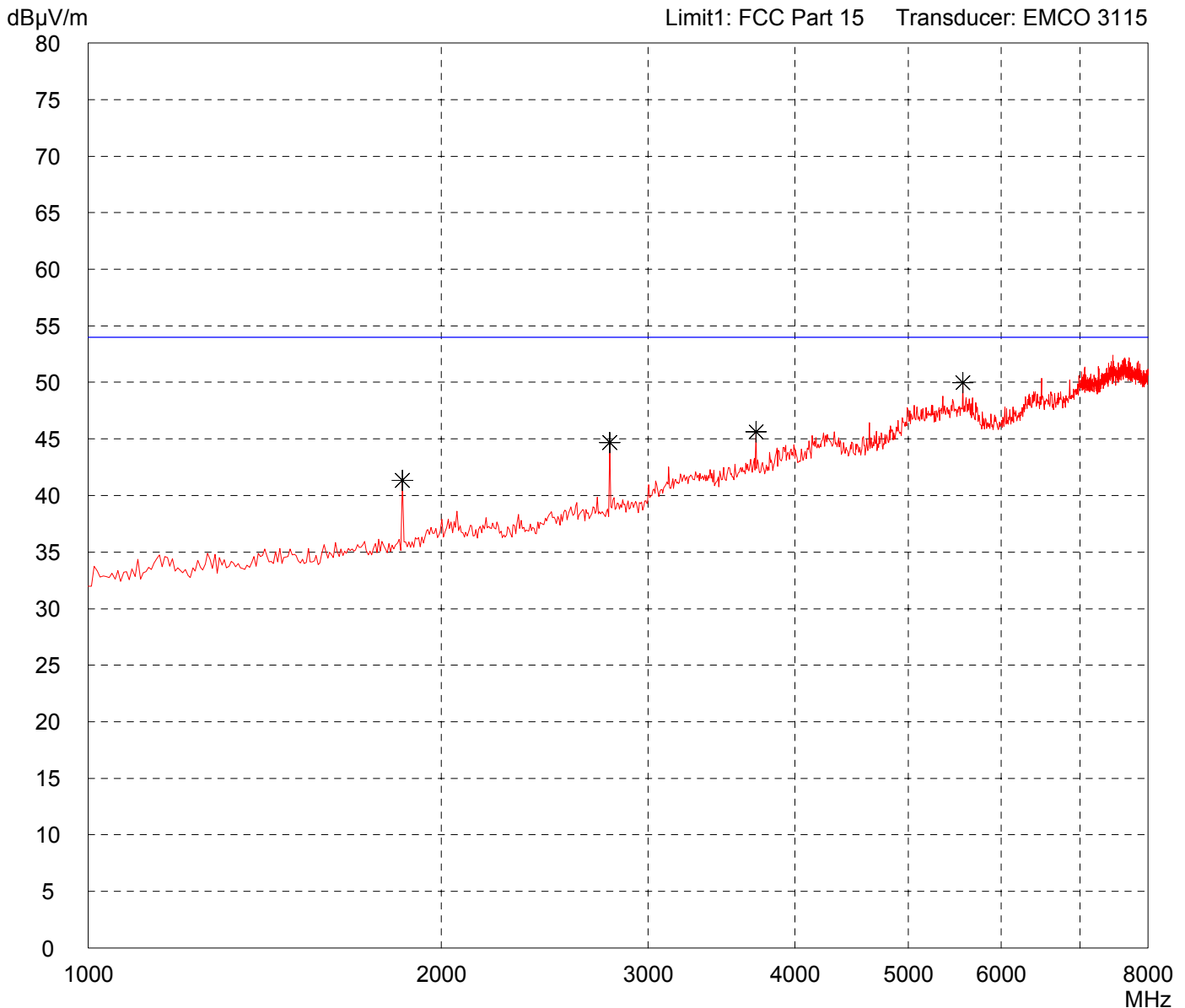


Result: Limit kept	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 (EMCO 3115)

Model: Handheld Unit	Comment: - TX Mode - High Ch. - With WHKS1000-10SS high-pass-filter
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

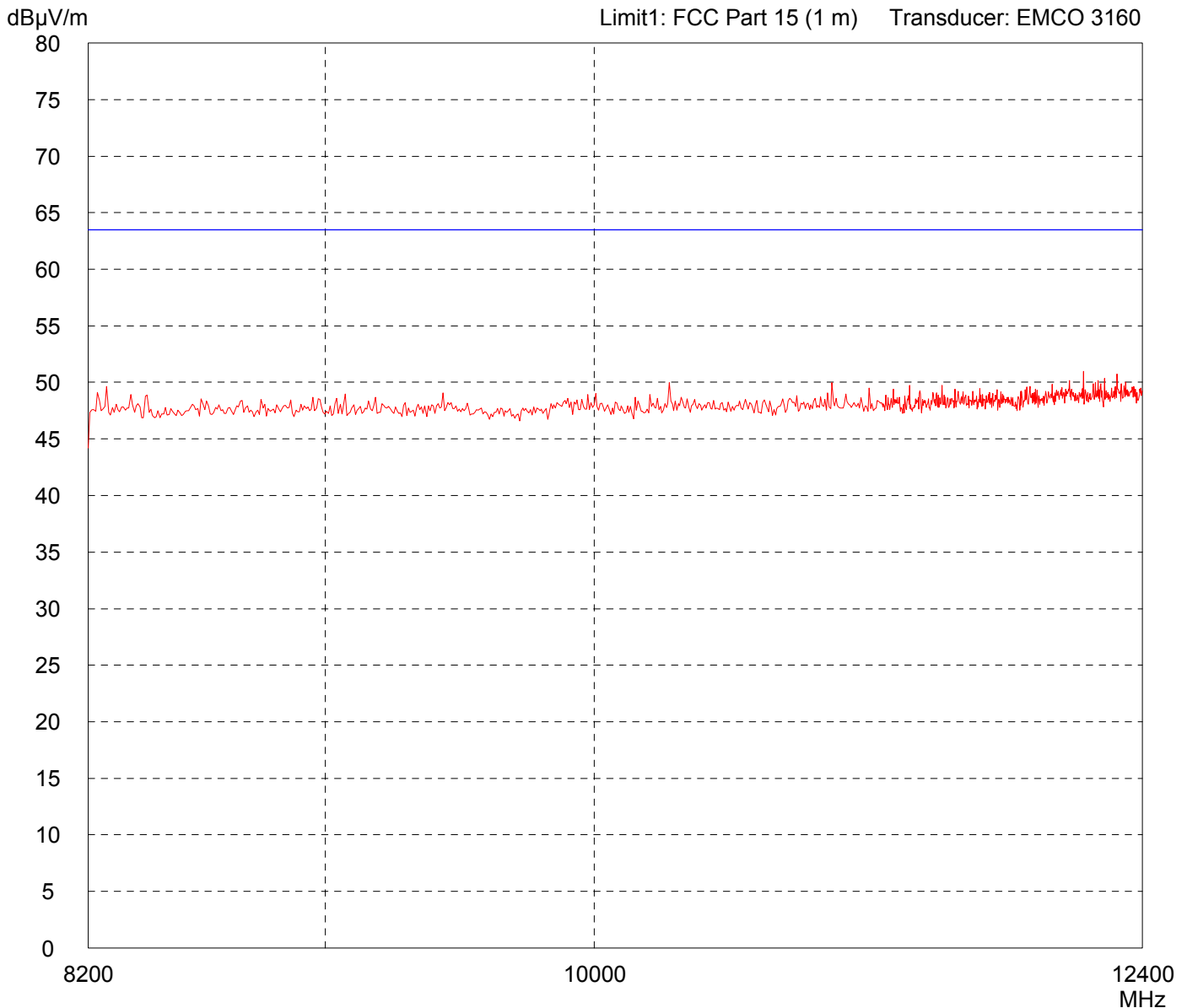
Detector: Peak	List of values: Selected by hand
--------------------------	--



Result: Limit kept	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Handheld Unit	Comment: - TX Mode - High Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 04/07/2005 Operator: M. Steindl	
Test performed: automatically File name: default.emi	
Detector: Peak	List of values: 10 dB Margin 50 Subranges

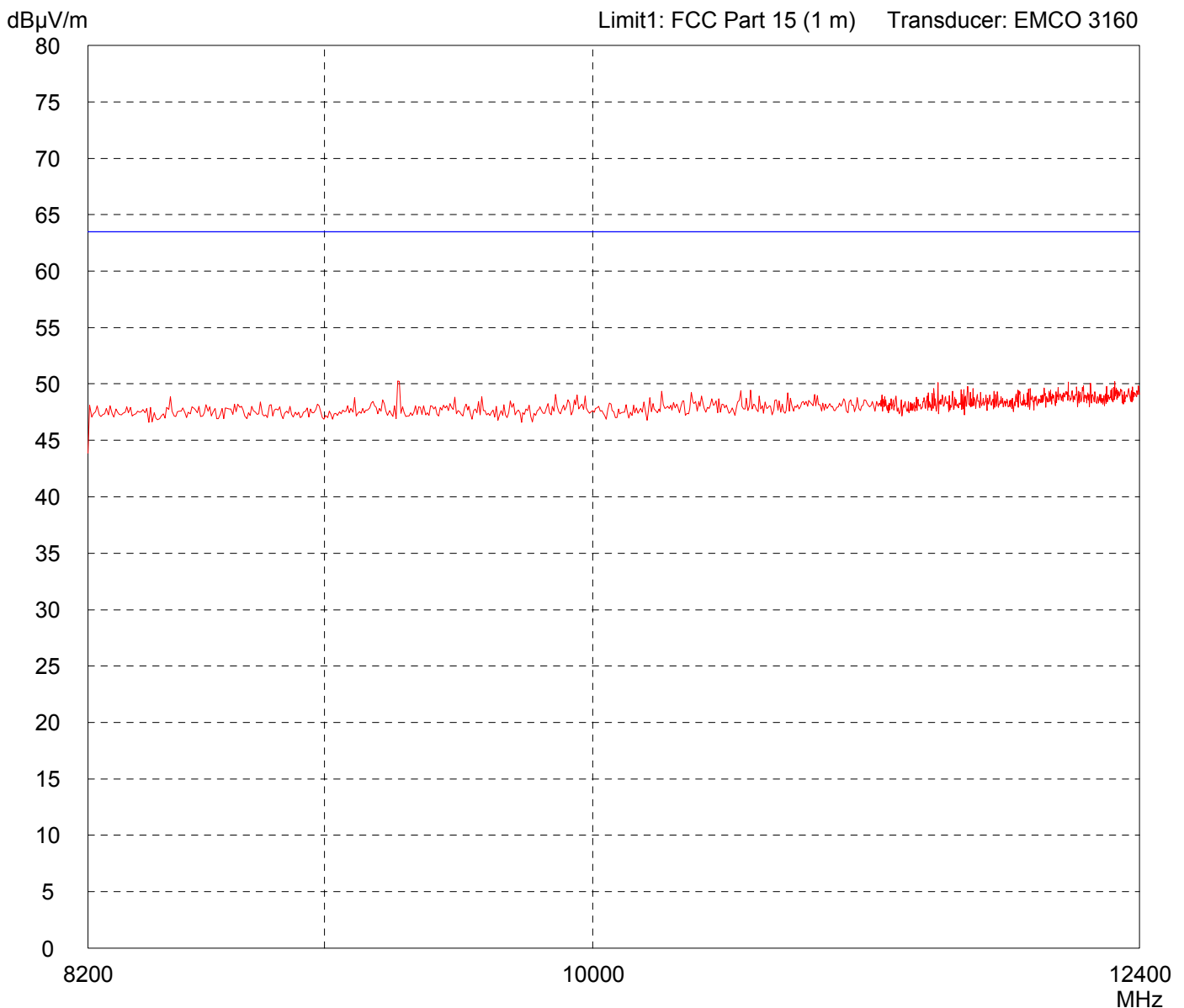


Result: Limit kept	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Handheld Unit	Comment: - TX Mode - High Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

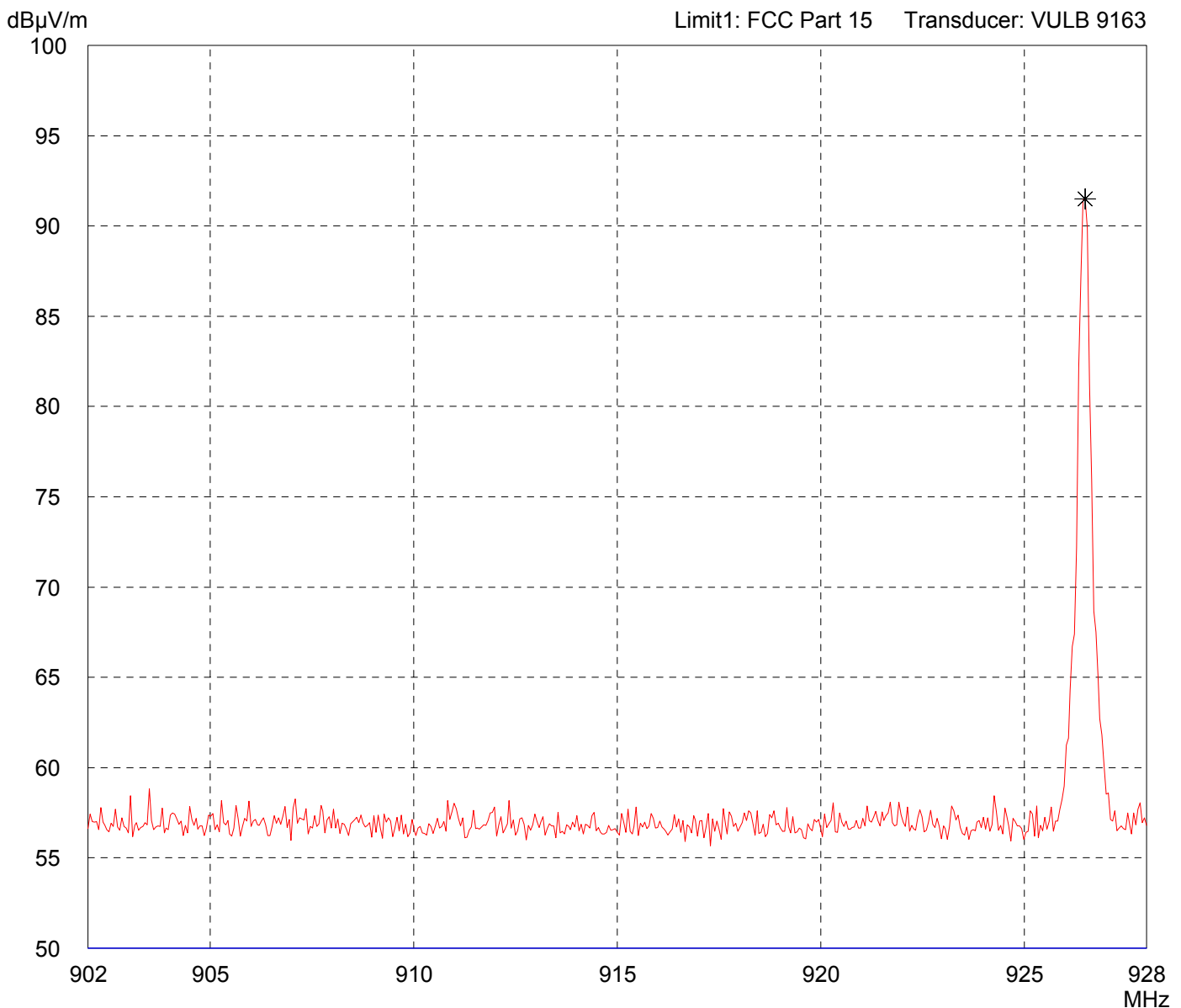


Result: Limit kept	Project file: 65111-50118-1
Page of Pages	

Radiated Emission Test 902 MHz - 928 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - High Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

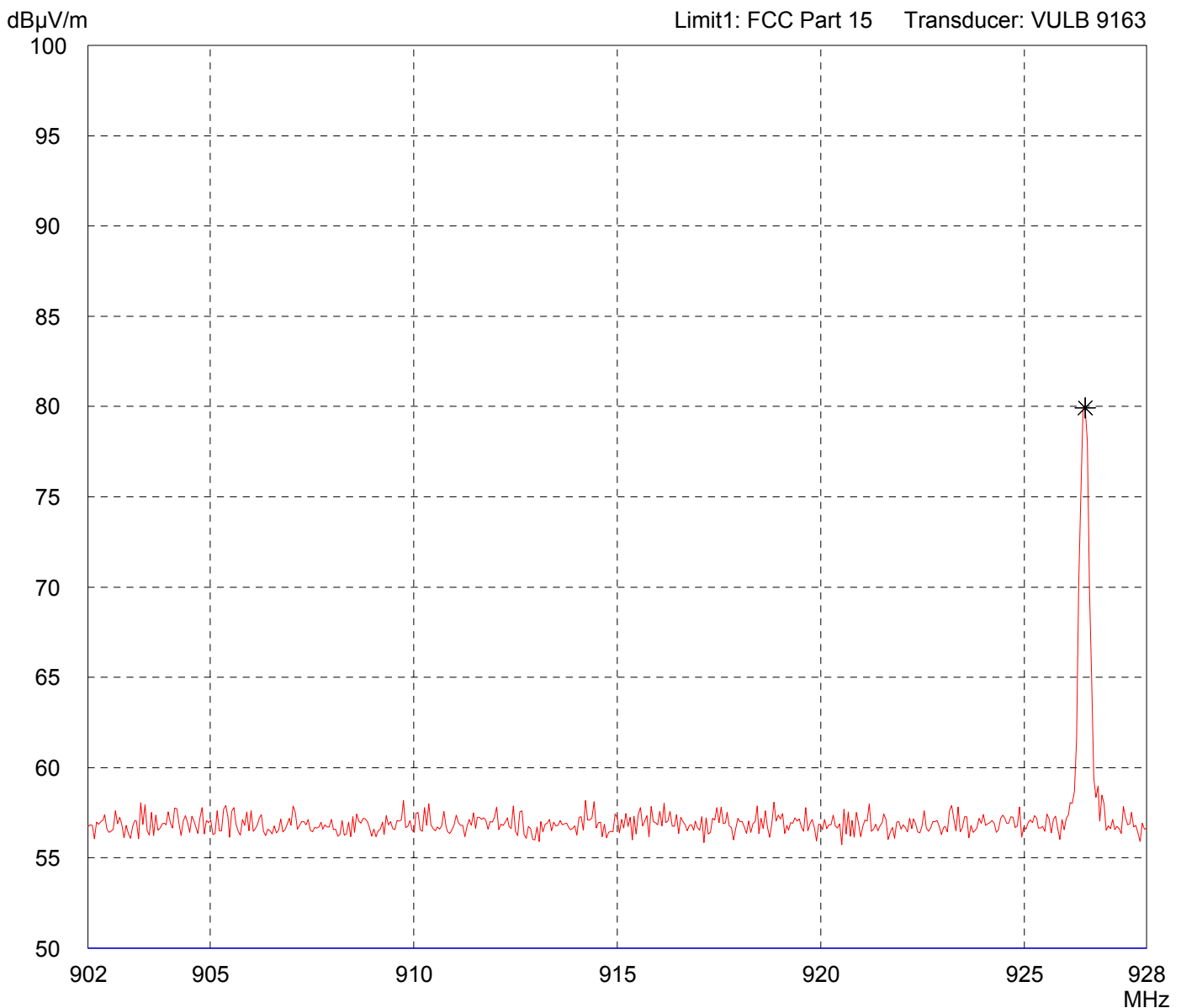


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Emission Test 902 MHz - 928 MHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - TX Mode - High Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

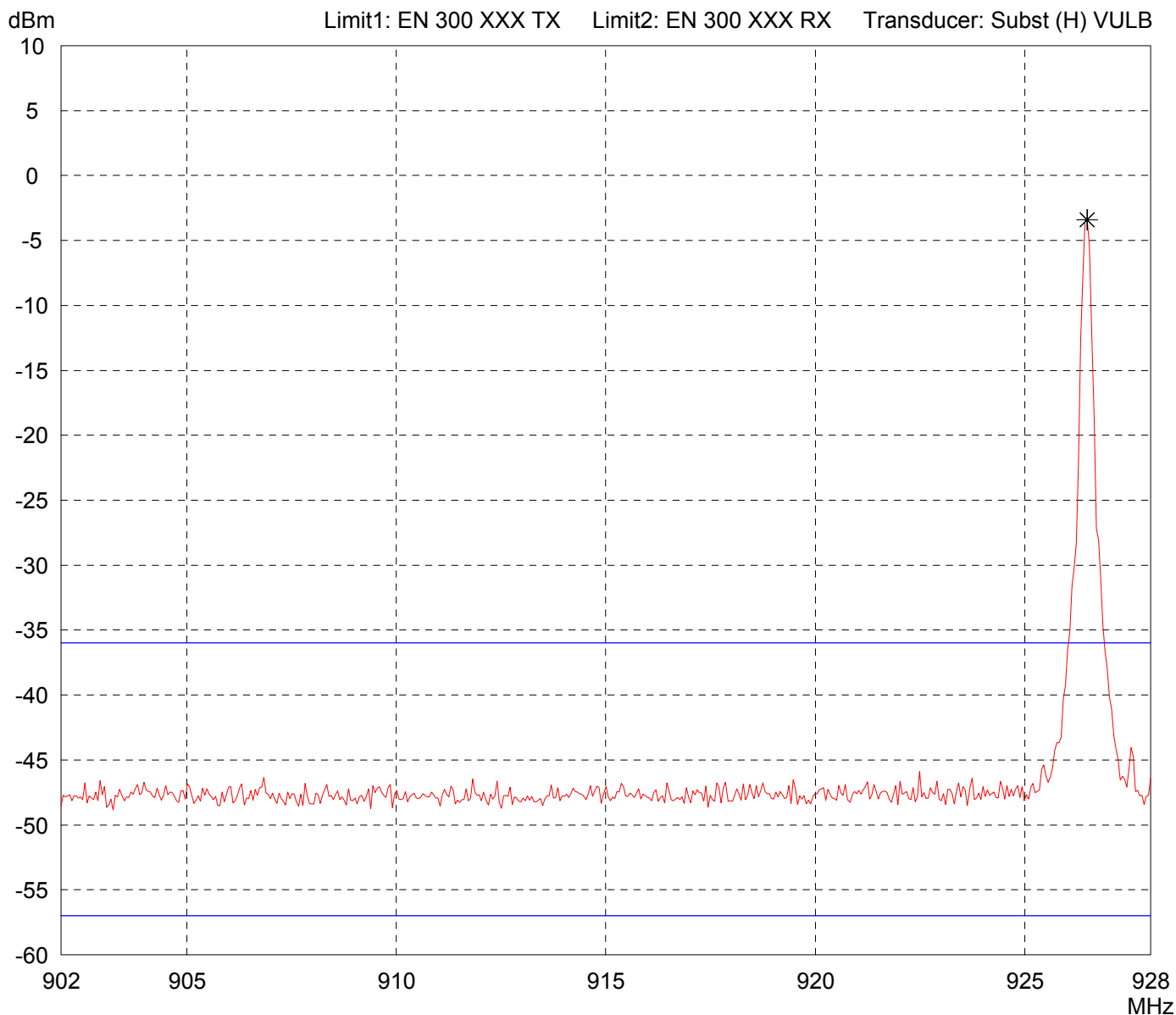


Result: Prescan	Project file: 65111-50118-1
	Page of Pages

Radiated Power Test 902 MHz - 928 MHz acc. to EN 300 220-1 (VULB9163)

Model: Handheld Unit	Comment: - TX Mode - High Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3.5 metres Horizontal Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

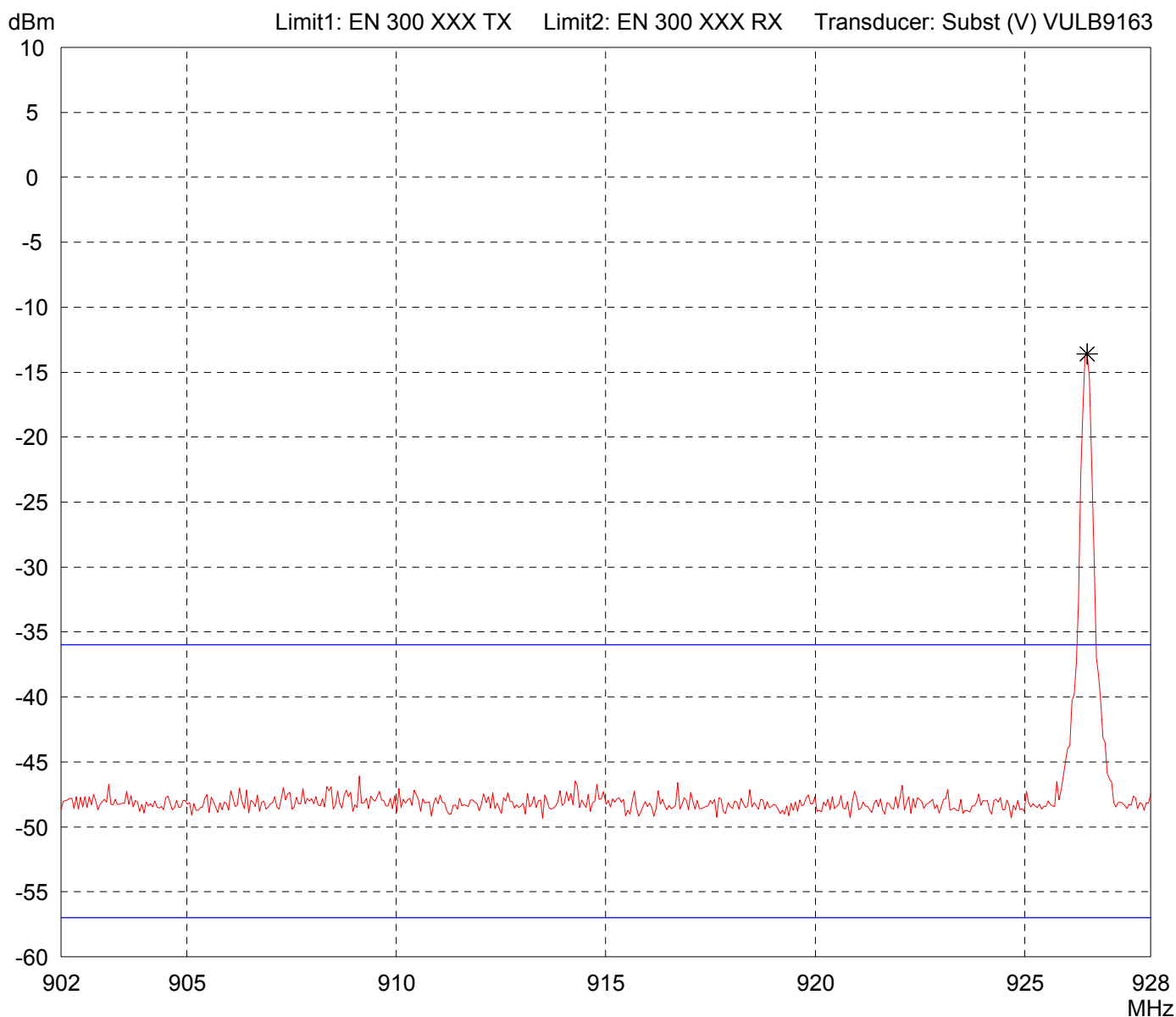


Result: Prescan	Project file: 65111-50118-1
Page of Pages	

Radiated Power Test 902 MHz - 928 MHz acc. to EN 300 220-1 (VULB9163)

Model: Handheld Unit	Comment: - TX Mode - High Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3.5 metres Vertical Polarization	
Date of test: 04/07/2005	Operator: M. Steindl
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

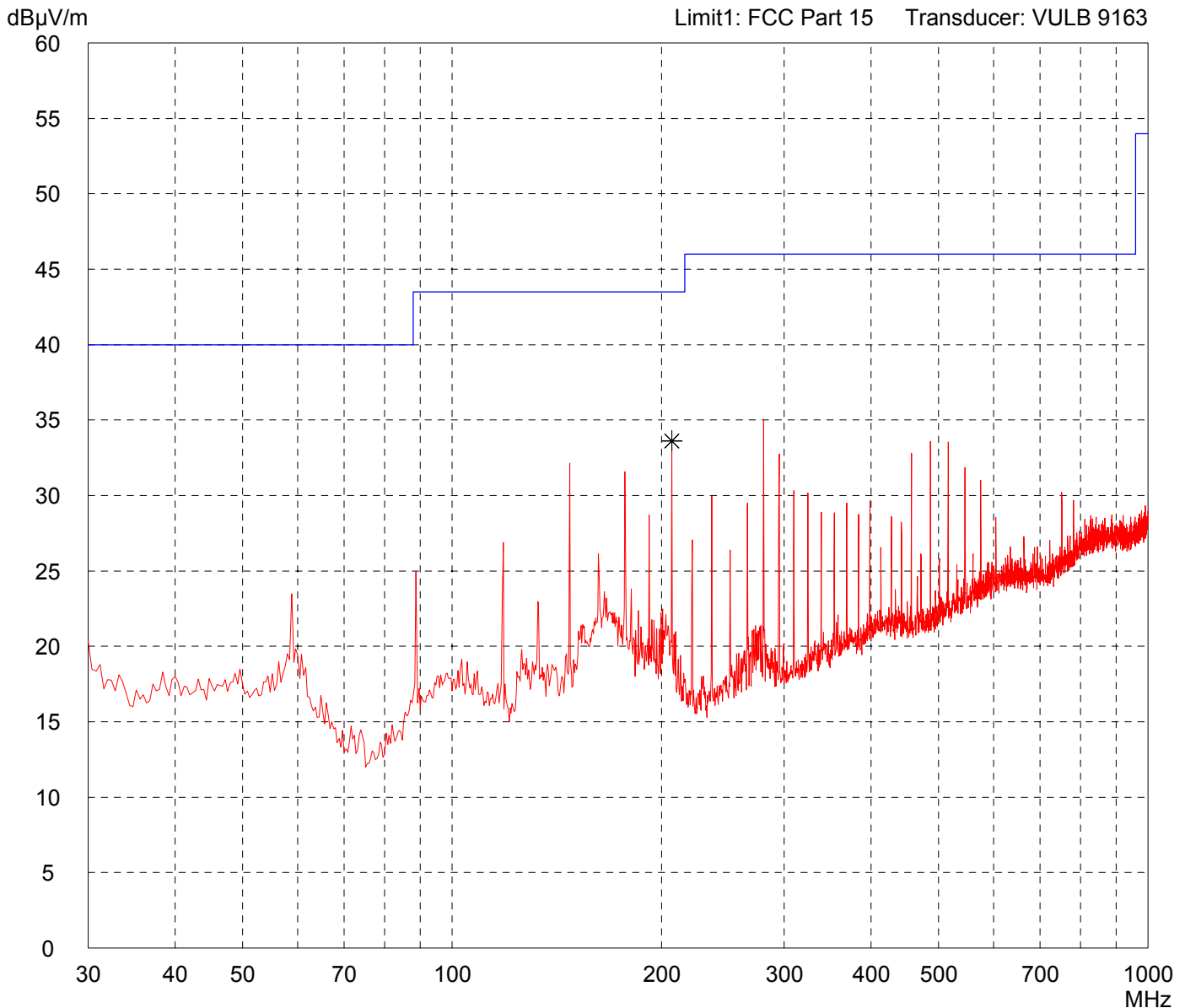


Result: Prescan	Project file: 65111-50118-1
Page of Pages	

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - RX Mode - Mid Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/16/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

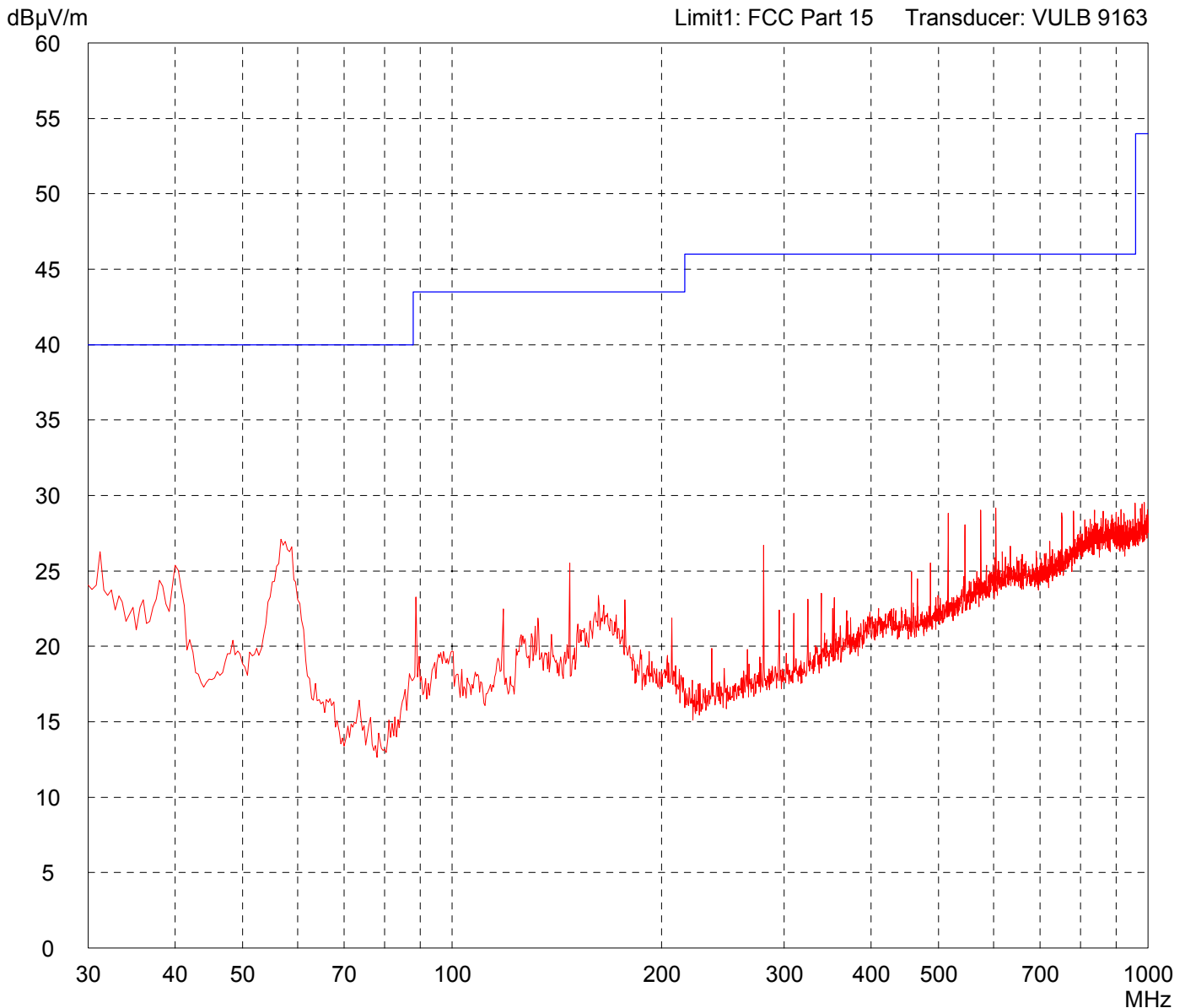


Result: Prescan	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: Handheld Unit	Comment: - RX Mode - Mid Ch.
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/16/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

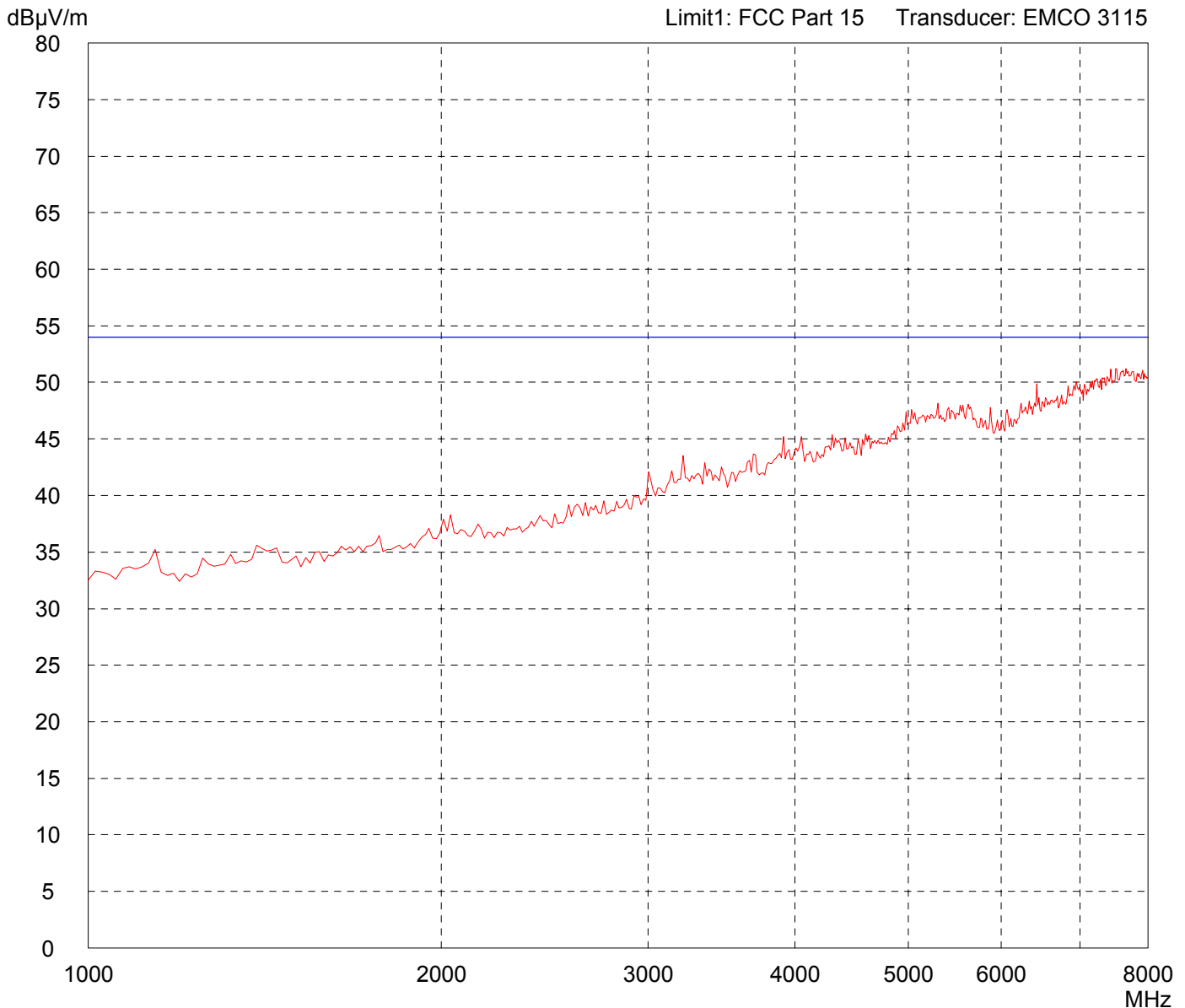


Result: Prescan	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 (EMCO 3115)

Model: Handheld Unit	Comment: RX-Mode Middle Channel 1 GHz High Pass Filter used
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 03/22/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

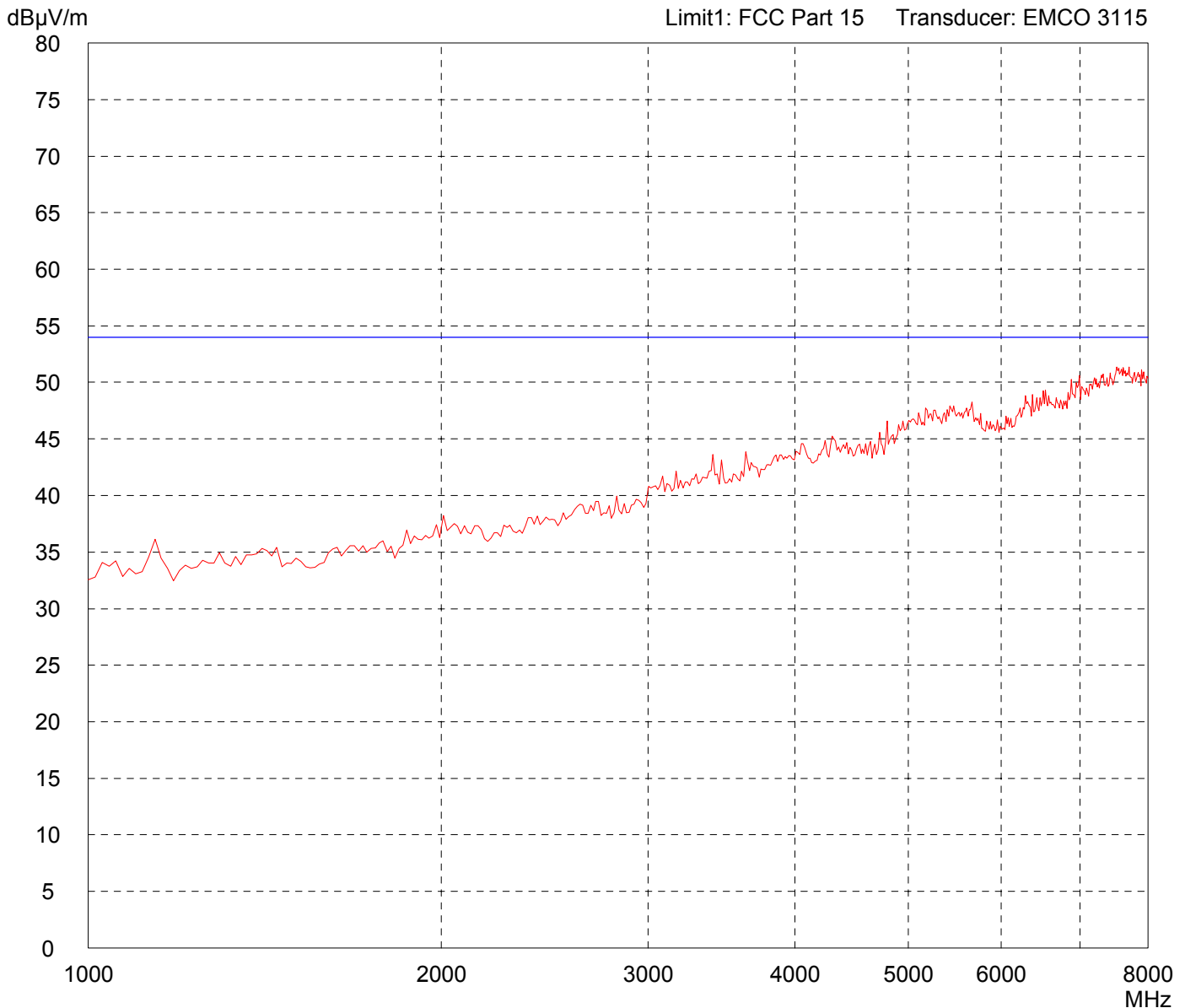


Result: Limit kept	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 (EMCO 3115)

Model: Handheld Unit	Comment: RX-Mode Middle Channel 1 GHz High Pass Filter used
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 03/22/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
--------------------------	--

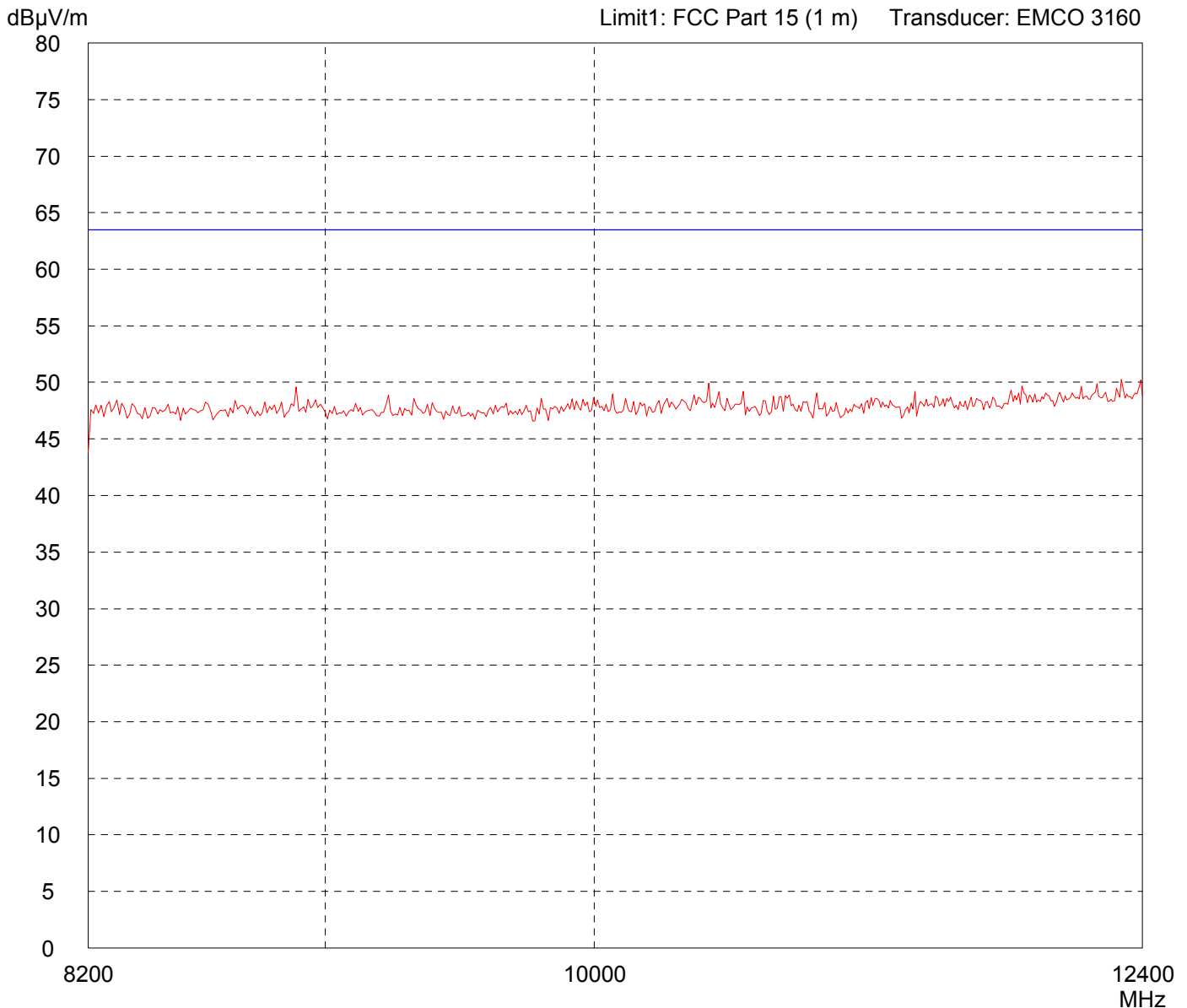


Result: Limit kept	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Handheld Unit	Comment: RX-Mode Middle Channel 1 GHz High Pass Filter used
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 03/22/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--

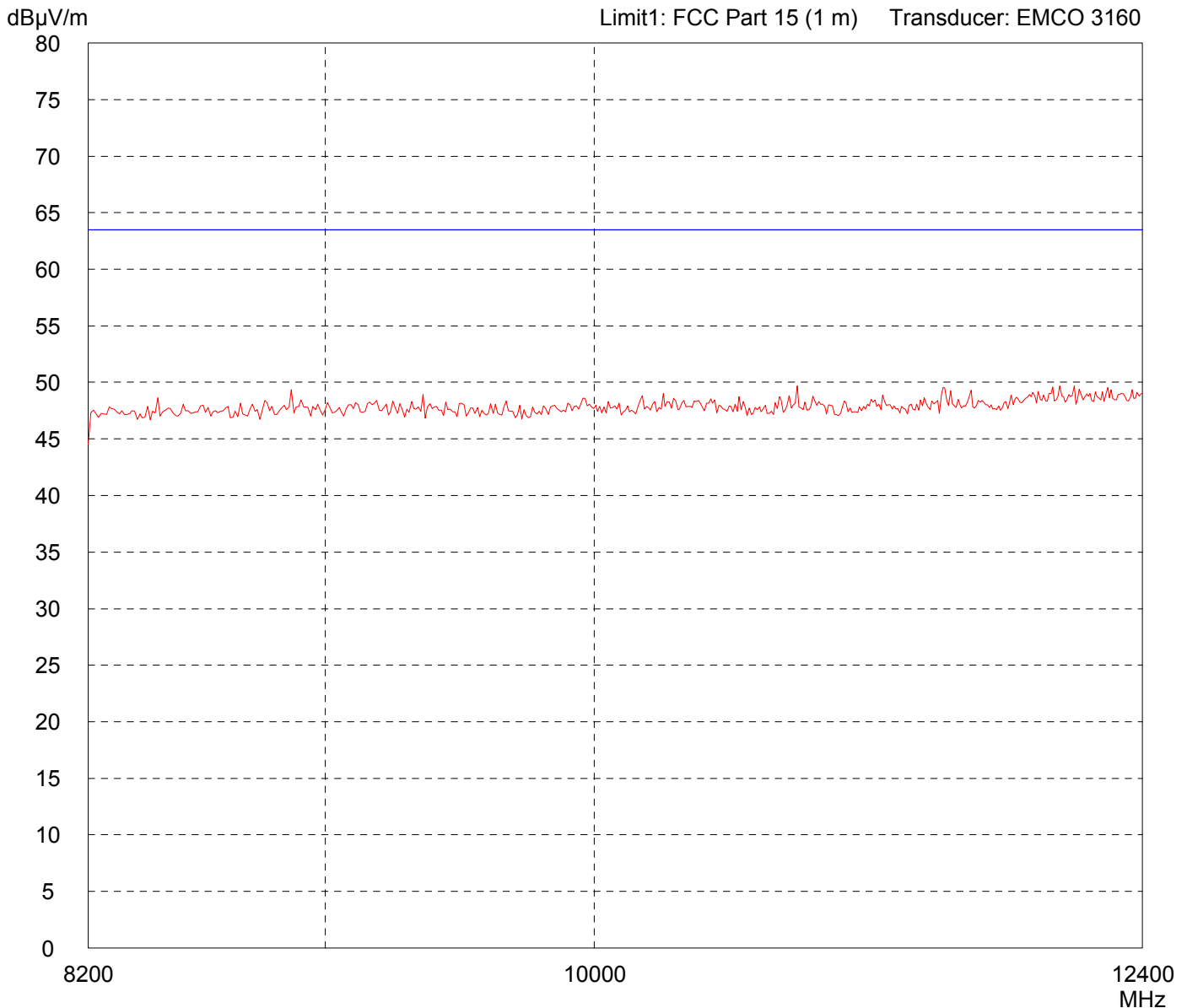


Result: Limit kept	Project file: 56111-50118-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 (EMCO 3160)

Model: Handheld Unit	Comment: RX-Mode Middle Channel 1 GHz High Pass Filter used
Serial no.: ---	
Applicant: Daktronics, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 03/22/2005	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
--------------------------	--



Result: Limit kept	Project file: 56111-50118-1
	Page of Pages