

Straubing, 07 January 2008

TEST - REPORT

No. 56109-071011-2 ed2

for

ZB2430-D

RF Transceiver Module

Applicant: AEROCOMM, Inc.

Purpose of testing: To show compliance with

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

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.	Conducted AC Powerline Emission.....	8
5.3.	Radiated Emissions 30 MHz – 1 GHz	9
5.4.	Radiated Emission > 1 GHz	10
5.5.	Radiated Emission Measurement 9 kHz to 30 MHz	11
6.	Photographs Taken During Testing	13
7.	List of Measurements	16
8.	Referenced Regulations	39
9.	Revision History.....	40
10.	Charts taken during testing.....	41

1. Administrative Data

Test item (EUT)	
Type designation	ZB 2430-D
Serial number(s):	001
Type of equipment:	RF Transceiver Module
Parts/accessories:	---
FCC-ID:	KQL-ZB2430D
Technical data	
Frequency range	2400 - 2483.5 MHz
Operational frequencies	15 channels from 2405 MHz (Ch. 1) to 2475 MHz (Ch. 15)
Statement:	The power was set to the maximum possible
Type of modulation	OFDM
Pulse frequency	N/A
Pulse width	N/A
Antenna	- Internal Antenna Centurion WIC2450-A (2 dBi, Chip) - External Antenna NearsonS151FC-L-(132)PX-2450S (5 dBi, Dipole)
Power supply	3.3 V DC
Applicant: (full address)	AEROCOMM, Inc. 11160 Thompson Avenue Lenexa KS 66219 / USA
Contract identification:	Verbal order
Contact person:	Daniel Waters
Manufacturer:	Applicant
Application details	
Receipt of EUT:	26 October 2007
Date of test:	November 2007
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.

Lowest RF Channel (01) = 2405 MHz

Middle RF Channel (08) = 2440 MHz

Highest RF Channel (15) = 2475 MHz

4. Configuration

Configuration of the EUT

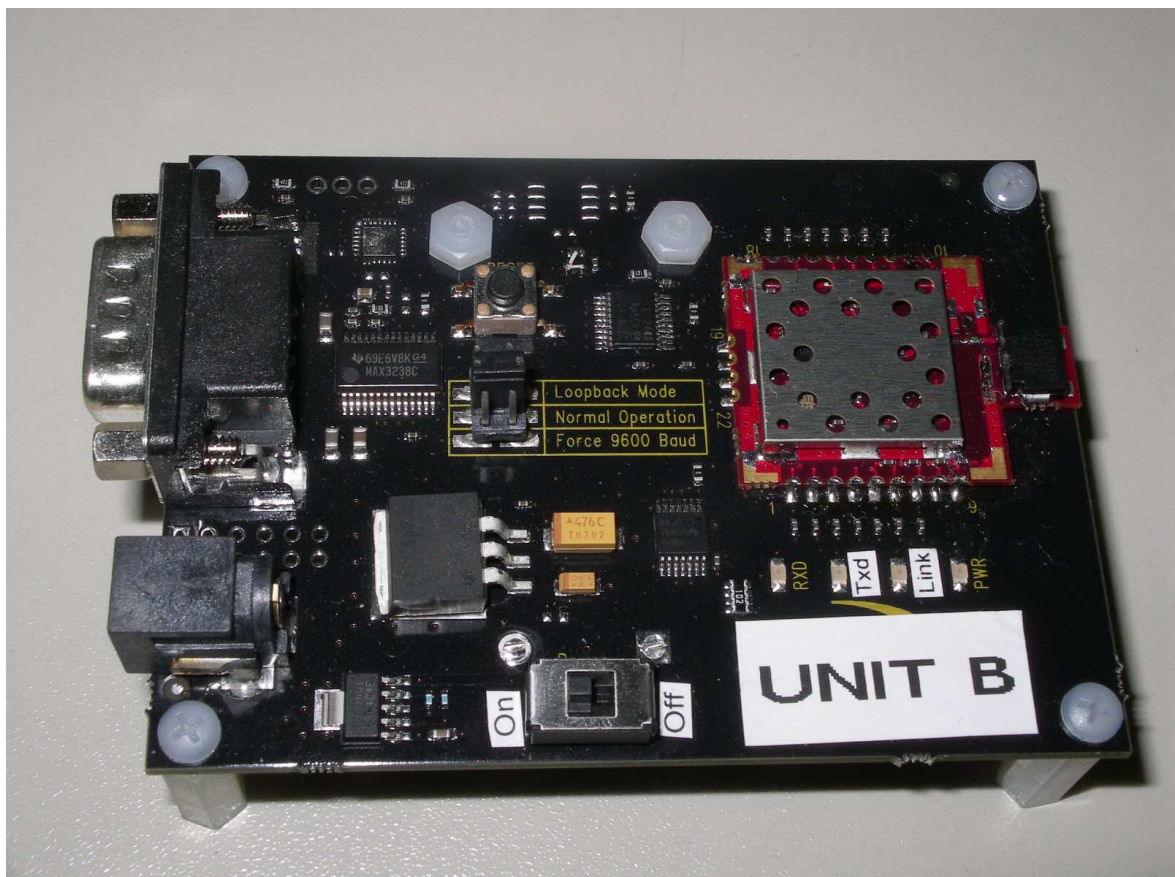
A full test setup was supplied by the applicant, see picture below

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 > 6 dB bandwidth, VBW >= RBW,

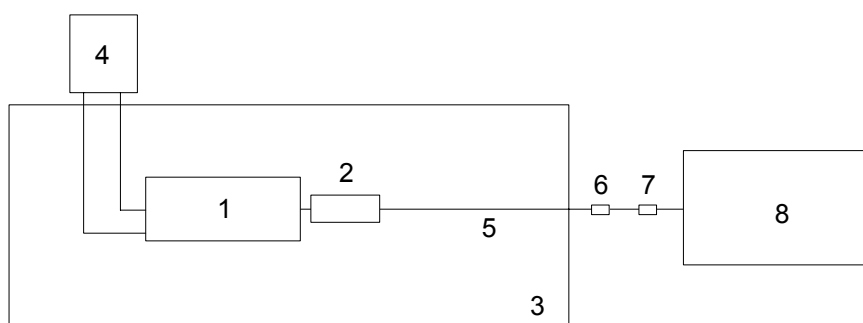


Figure 1: Measurement setup for testing on antenna connector

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

5.2. Conducted AC Powerline Emission

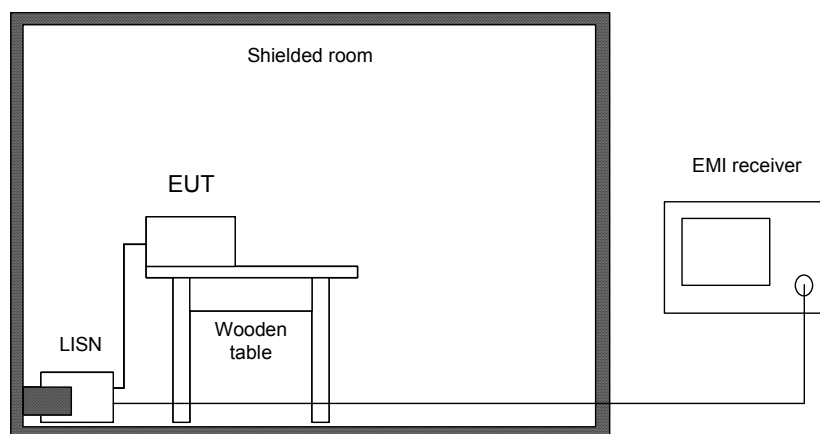
Rules and Specifications:	Section 15.207
Guide:	ANSI C63.4:2003

Measurement Procedure:

Conducted emission tests in the frequency range 150 kHz to 30 MHz are performed using Line Impedance Stabilization Networks (LISNs). To simplify testing with quasi-peak and average detector the following procedure is used:

First the whole spectrum of emission caused by the equipment under test (EUT) is recorded with detector set to peak using CISPR bandwidth of 10 kHz. After that all emission levels having less margin than 10 dB to or exceeding the average limit are retested with detector set to quasi-peak. If average limit is kept with quasi-peak levels 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 is performed.

According to ANSI C63.4, section 13.1.3.1, testing of intentional radiators with detachable antenna shall be performed using a suitable dummy load connected to the antenna output terminals. Otherwise, the tests shall be made with the antenna connected and, if adjustable, fully extended. Testing with dummy load may be necessary to distinguish (unintentional) conducted emissions on the supply lines from (intentional) emissions radiated by the antenna and coupling directly to supply lines and/or LISN. Usage of dummy load has to be stated in the appropriate test record(s) and notes should be added to clarify the test setup.



Test instruments used:

Type	Model	Serial Number	Manufacturer
EMI receiver	ESHS 10	860043/016	Rohde & Schwarz
LISN	ESH3-Z5	862770/021	Rohde & Schwarz
Shielded room	No. 4	3FD-100 544	Euroshield

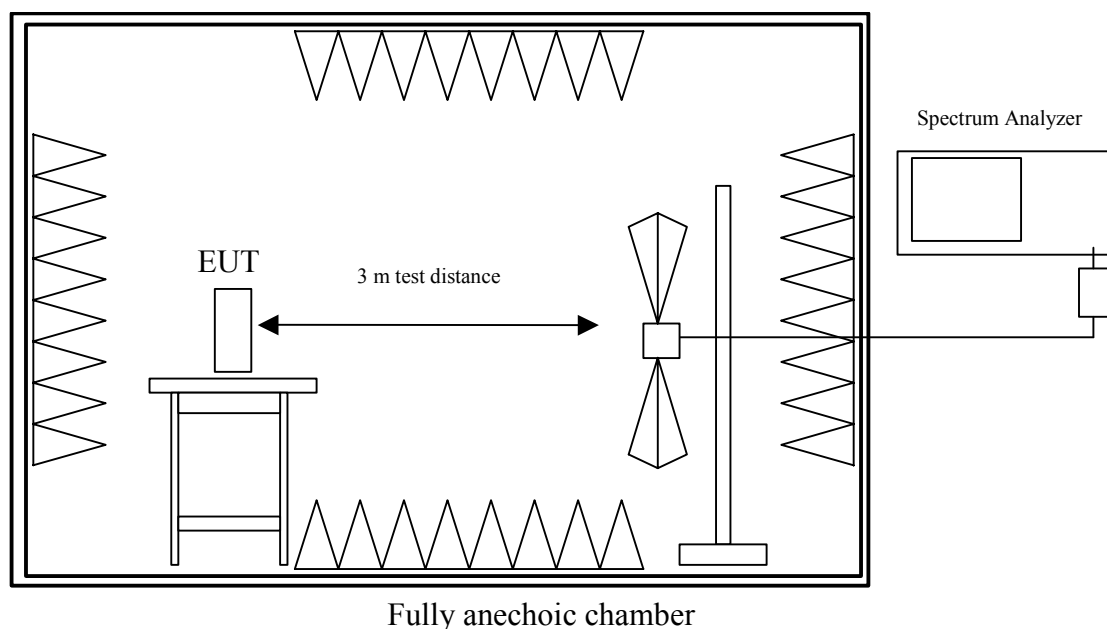
5.3. Radiated Emissions 30 MHz – 1 GHz

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

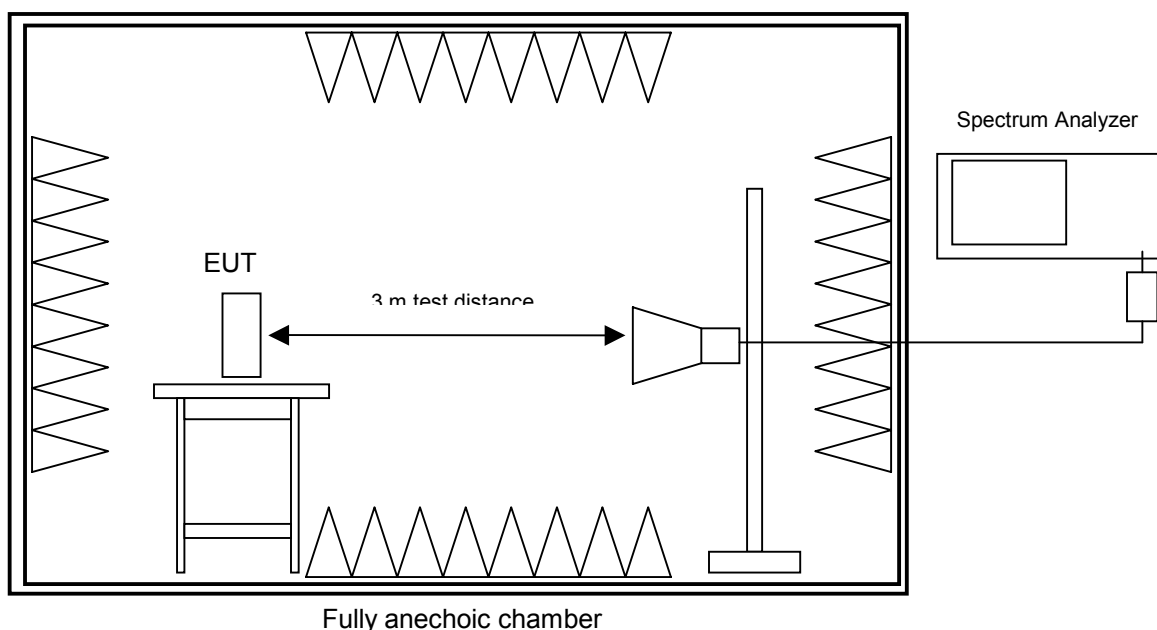
Measurement Procedure:

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).



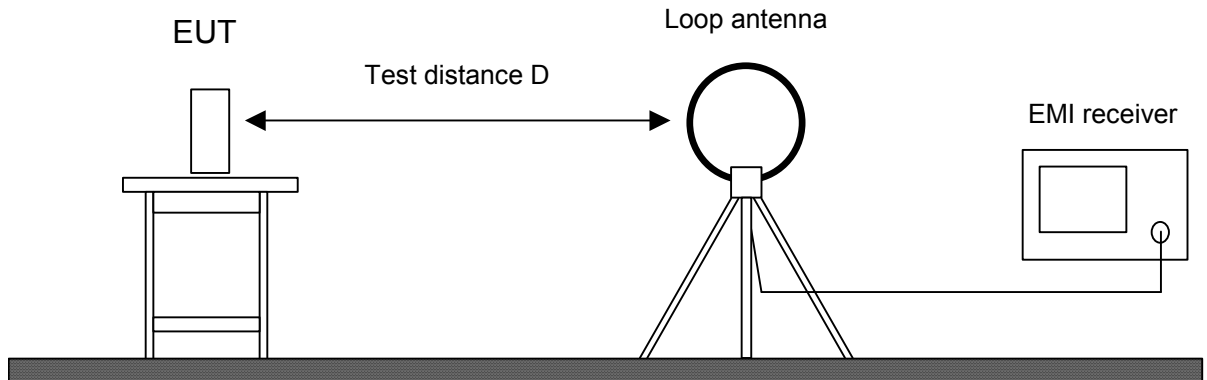
Test instruments used:

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

5.5. Radiated Emission Measurement 9 kHz to 30 MHz

Rules and Specifications:	CFR 47 Part 15, sections 15.205 and 15.209
Guide:	ANSI C63.4-2003

Measurement Procedure:
Radiated emission in the frequency range 9 kHz to 30 MHz is measured using an active loop antenna. First the whole spectrum of emission caused by the equipment is recorded at a distance of 3 meters in a fully or semi anechoic room with the detector of the spectrum analyzer or EMI receiver set to peak. This configuration is also used for recording the spectrum of intentional radiators. 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. EUT is rotated all around to find the maximum levels of emissions. Equipment and cables are placed and moved within the range of position likely to find their maximum emissions. If worst case emission of the EUT cannot be recorded with EUT in standard position and loop antenna in vertical polarization the EUT (or the radiating part of the EUT) is rotated by 90 degrees instead of changing the loop antenna to horizontal polarization. This procedure is selected to minimize the influence of the environment (e.g. effects caused by the floor especially with longer distances). Final measurement is performed at a test distance D of 30 meters using an open field test site. In case the regulation requires testing at other distances, the result is extrapolated by either making measurements at an additional distance D of 10 meters to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). In cases of very low emissions measurements are performed at shorter distances and results are extrapolated to the required distance. The provisions of CFR 47 Part 15 sections 15.31(d) and (f)(2) apply. According to CFR 47 Part 15 section 15.209(d) final measurement is performed with detector function set to quasi-peak except for the frequency bands 9 to 90 kHz and 110 to 490 kHz where, for non-pulsed operation, average detector is employed. If the radiated emission limits are expressed in terms of the average value of the emission there also is a peak limit corresponding to 20 dB above the maximum permitted average limit. Additionally, if pulsed operation is employed, the average field strength is determined by averaging over one complete pulse train, including blanking intervals, as specified in CFR 47 Part 15 section 15.35(c). If the pulse train exceeds 0.1 second that 0.1 second interval during which the value of the emission is at its maximum is selected for calculation. The pulse train correction is added to the peak value of the emission to get the average value.

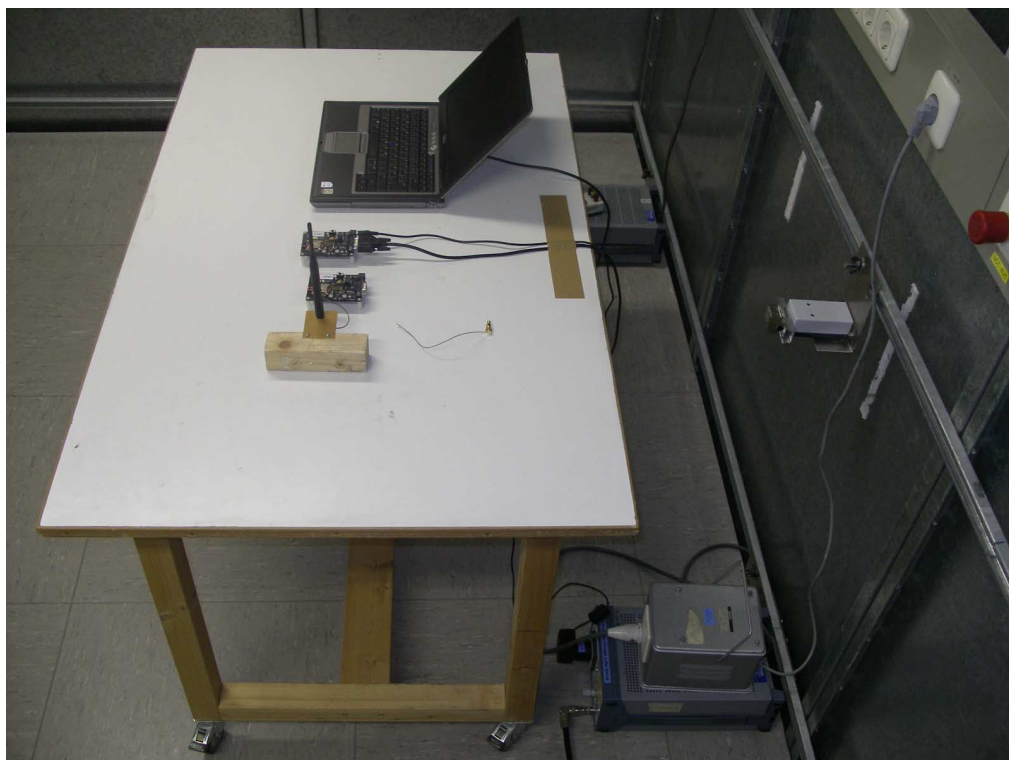
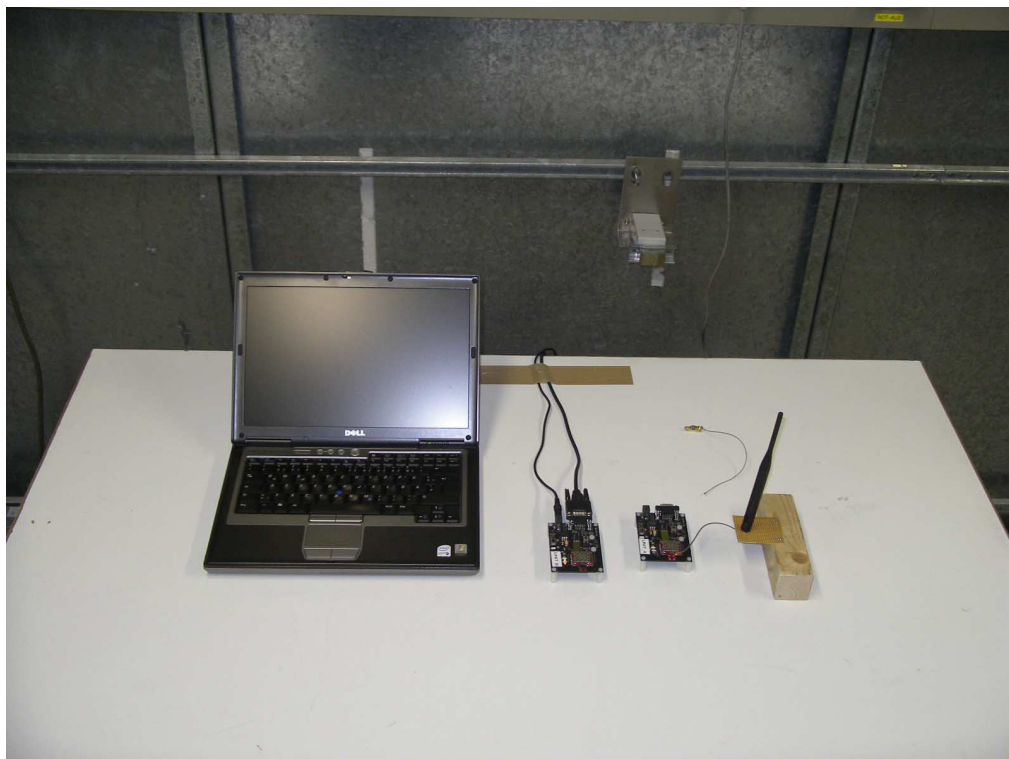


Test instruments used:

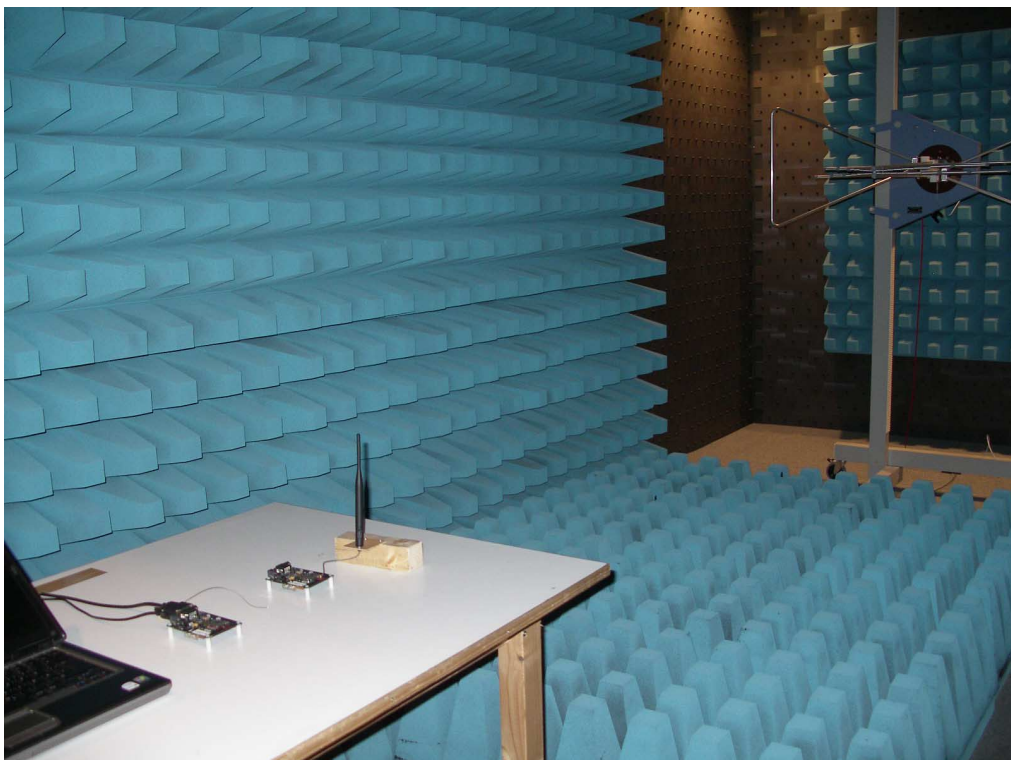
Used	Type	Model	Serial No. or ID	Manufacturer
☐	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
☐	EMI test receiver	ESMI	839379/013 839587/006	Rohde & Schwarz
☒	Test receiver	ESHS 10	860043/016	Rohde & Schwarz
☐	Preamplifier	CPA9231A	3393	Schaffner
☒	Loop antenna	HFH2-Z2	882964/1	Rohde & Schwarz
☐	Fully anechoic room	No. 2	1452	Albatross Projects
☒	Semi-anechoic room	No. 3	1453	Siemens
☒	Open field test site	EG 1	1450	Senton

6. Photographs Taken During Testing

Test setup for conducted emission measurement 150 kHz - 30 MHz



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



7. List of Measurements

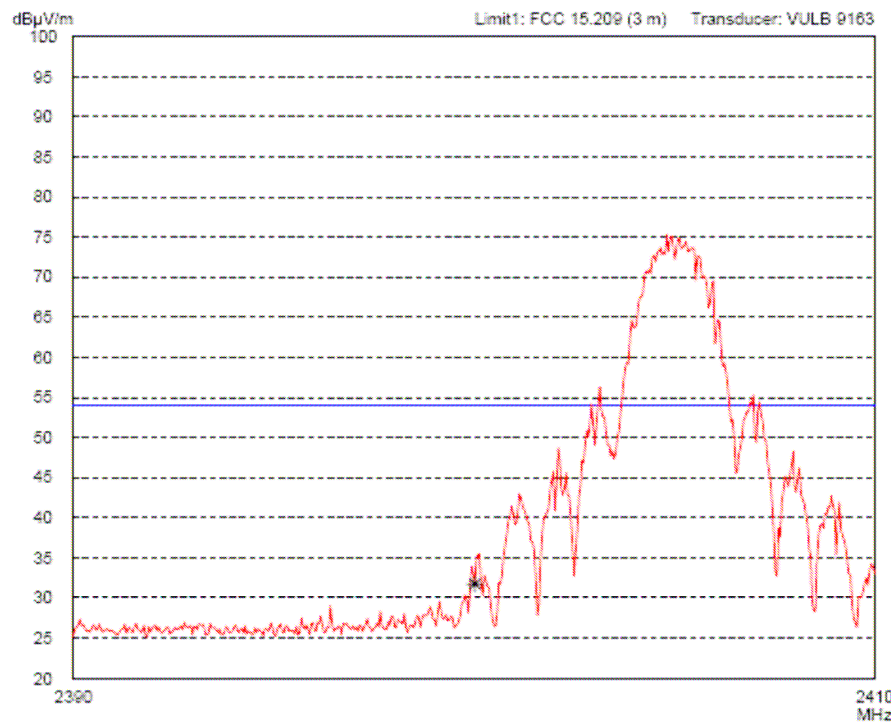
FCC Part 15 Subpart C			
Section(s):	Test	Page(s)	Result
15.205 15.247 (a) (a2) 15.247 (b) (3) 15.247 (d) 15.247 (d) 15.209 15.205 15.209 15.247 (e) 15.203 2.1093 15.207 15.111 15.109	Transmitter:		
	Restricted Bands	17	Pass
	Channel Bandwidth	19	Pass
	Maximum Peak Output Power	21	Pass
	Spurious Emissions - conducted	23	Pass
	Spurious Emissions - radiated	27	Pass
	Radiated emissions 9 kHz - 30 MHz	29	Pass
	Power Spectral Density	30	Pass
	Antenna Requirement	32	Pass
	RF Exposure Requirement	34	Pass
	Conducted AC Powerline Emissions	35	Pass
	Receiver		
	Spurious Emissions on Antenna Port	---	N/A
	Radiated Emissions	37	Pass

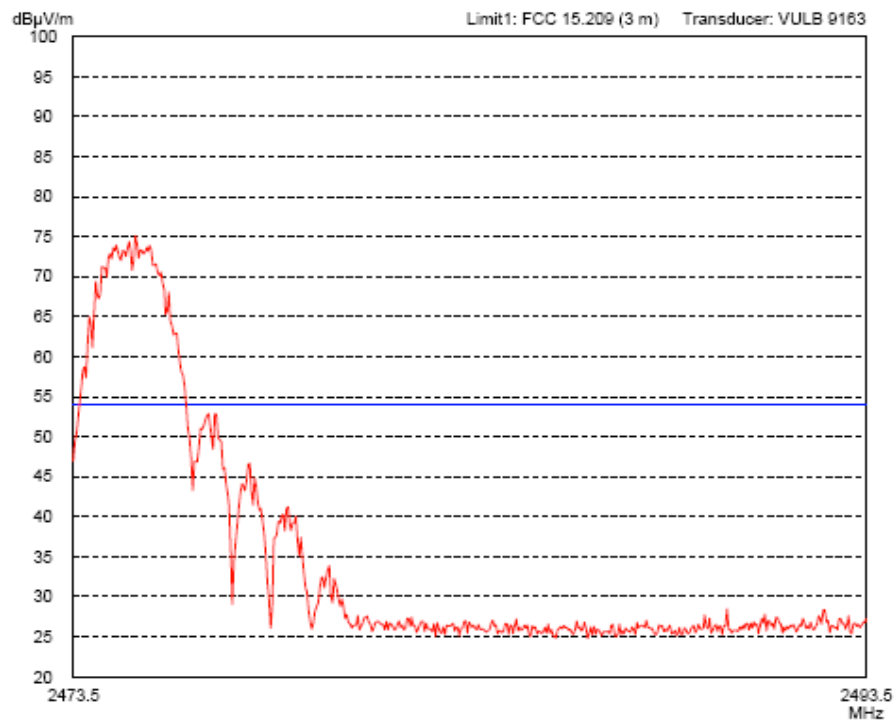
Restricted Band & Band Edge Compliance

Rules and Specifications:	15.205
Guide:	ANSI C63.4:2003
Requirement:	Except as shown in paragraph (d) of section 15.205, only spurious emissions are permitted in any of the frequency bands listed.

Test Site:	Open Area Test Site (< 1GHz), Fully anechoic room (>1 GHz)
Distance:	Radiated Measurement
Date of Test:	06 November 2007

Restricted Band (MHz)	RF Channel	Result
2310 - 2390	Channel 1 (2405 MHz)	Pass
2483..5 - 2500	Channel 15 (2475 MHz)	Pass





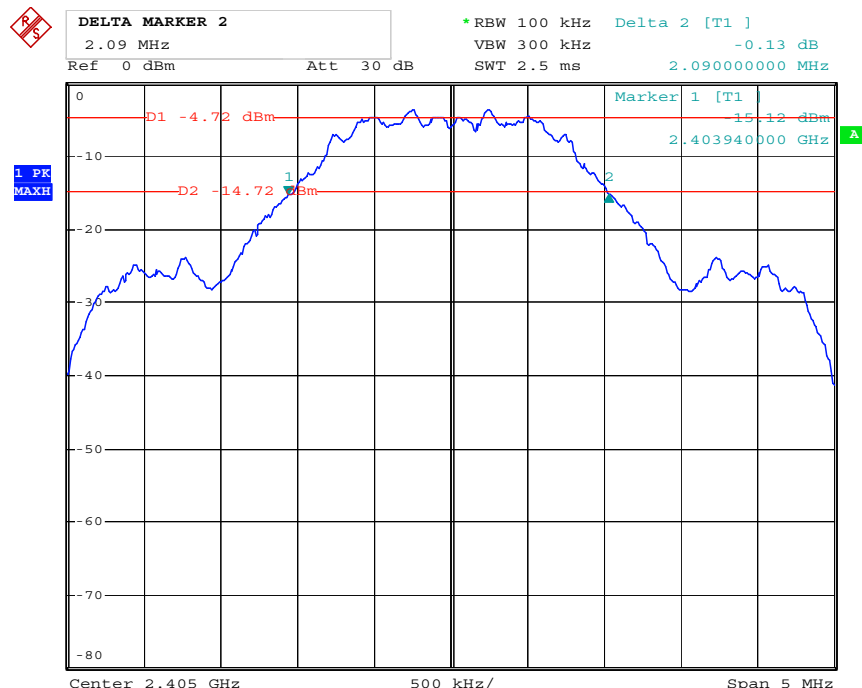
Radiated measurement, antenna correction included

Channel Bandwidth

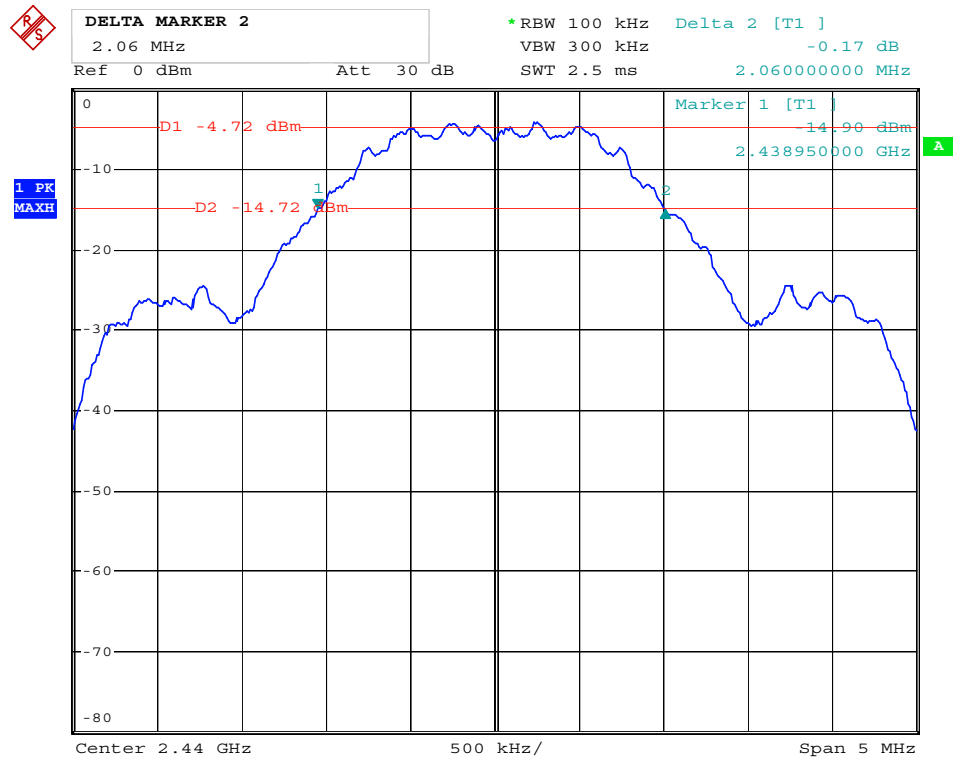
Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4:2003
Limit:	Systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	06 November 2007

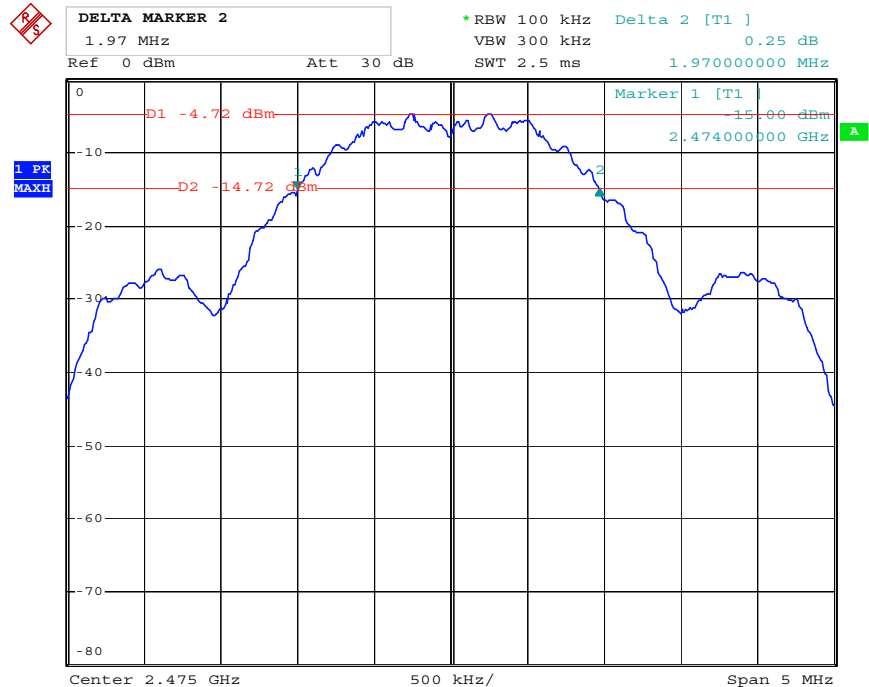
Frequency	Channel Bandwidth in kHz	Standard	Result
Low (2405 MHz)	2090	>500 kHz	Pass
Middle (2440 MHz)	2060	>500 kHz	Pass
High (2474 MHz)	1970	>500 kHz	Pass



Date: 6.NOV.2007 18:39:34



Date: 6.NOV.2007 18:41:13



Date: 6.NOV.2007 18:37:02

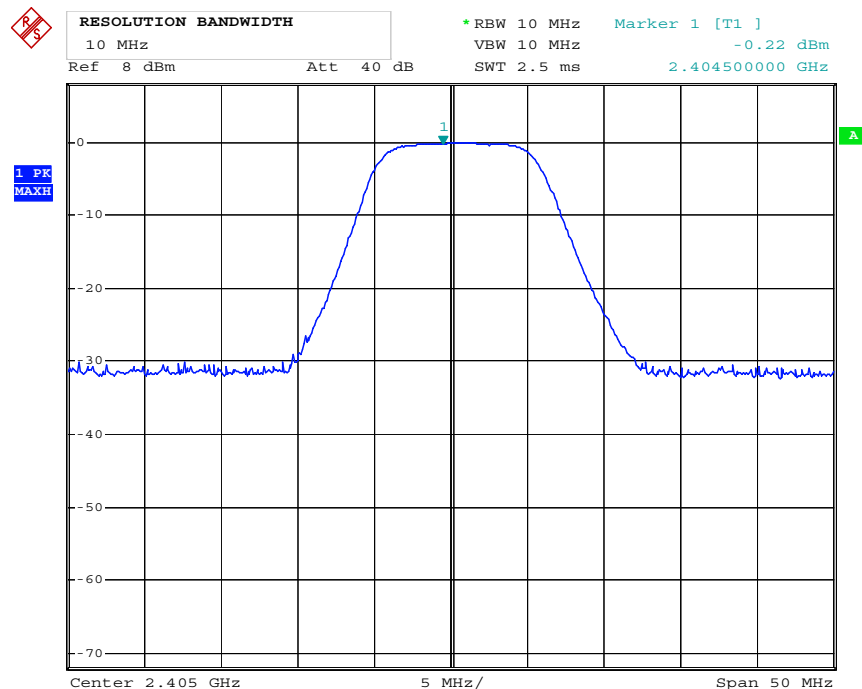
Carrier Power Measurement

Rules and Specifications:	15.247 (b) (2)
Guide:	ANSI C63.4:2003
Limit:	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt

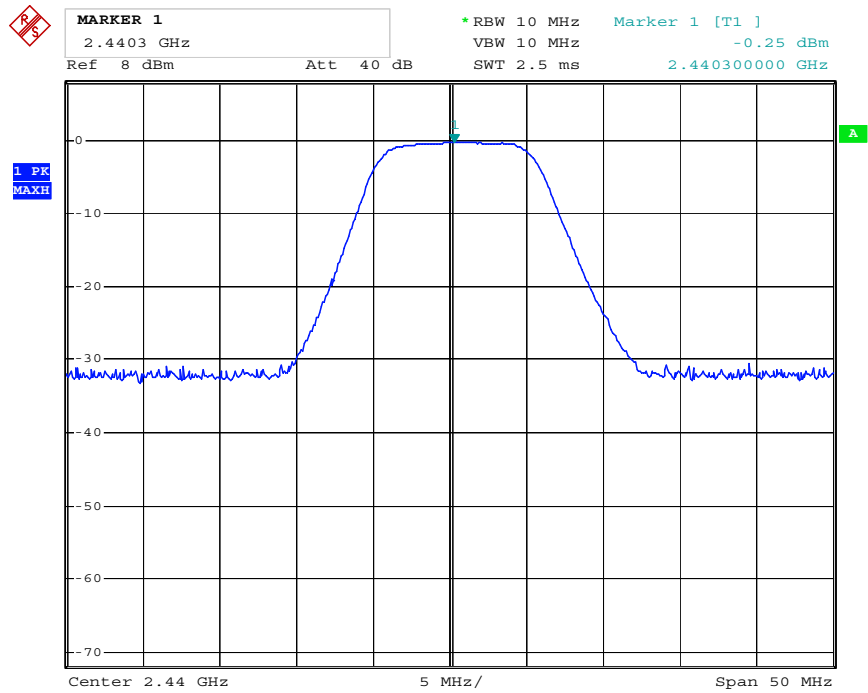
Test Site:	Radio Lab.
Distance:	Conducted Measurement, output power set to maximum
Date of Test:	06 November 2007

Frequency	Output Power in dBm	Output Power in W	Standard	Result
Low (2405 MHz)	-0.22		≤1.00W	Pass
Middle (2440 MHz)	-0.25		≤1.00W	Pass
High (2475 MHz)	-1.20		≤1.00W	Pass

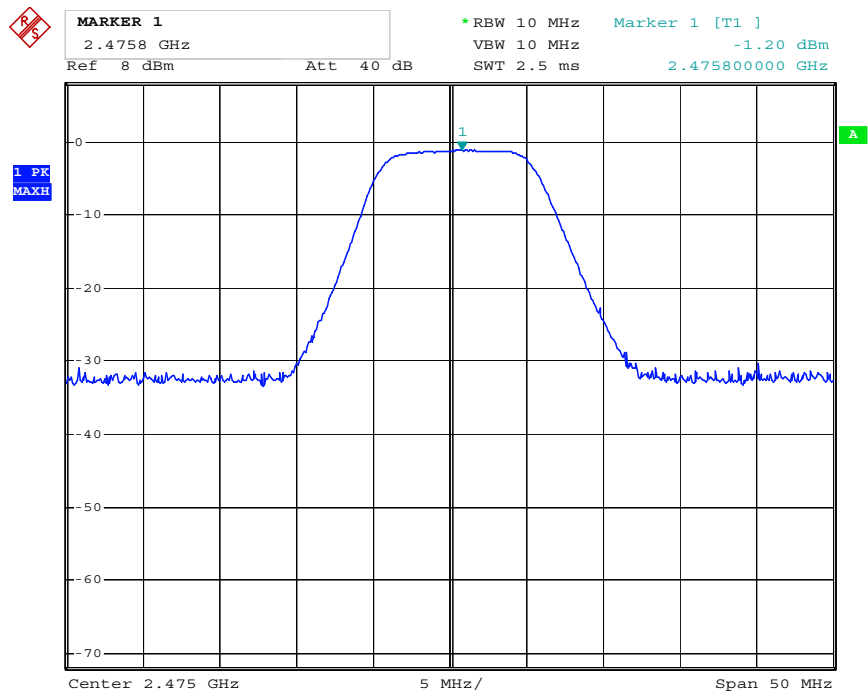
Note: The values listed above have been retested with a power meter with PEP sensor, results will be slightly higher than that of the spectrum analyzer plots.



Date: 6.NOV.2007 18:30:30



Date: 6.NOV.2007 18:32:02



Date: 6.NOV.2007 18:33:23

Spurious Emissions

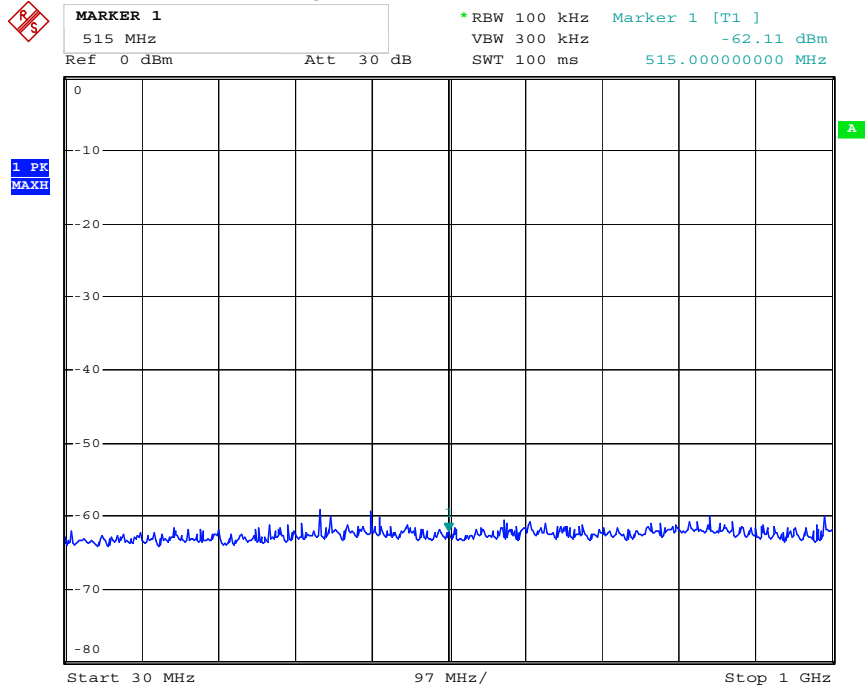
Rules and Specifications:	15.247 (c)
Guide:	ANSI C63.4:2003
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB 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, output power set to maximum
Date of Test:	06 November 2007

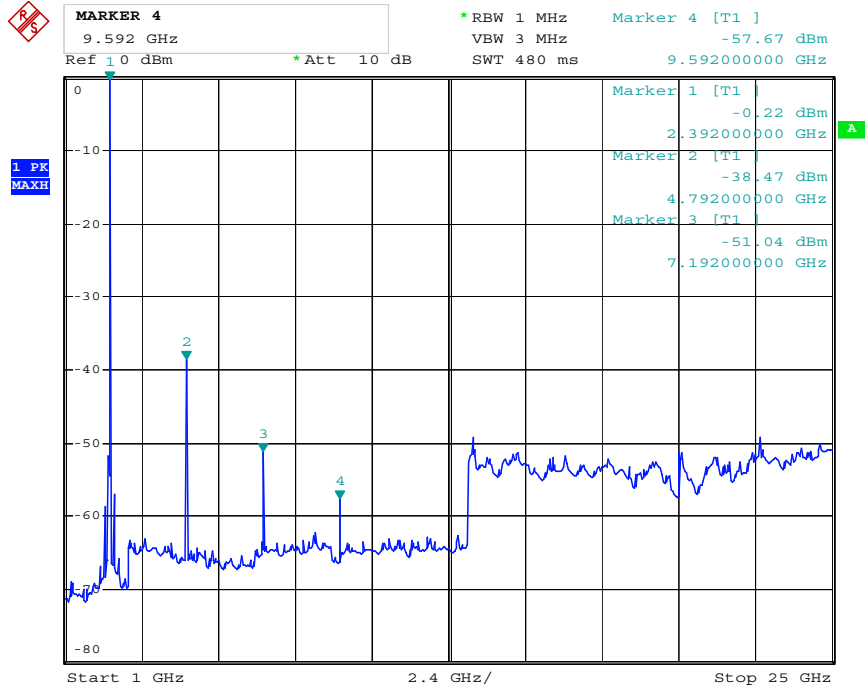
Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)	Result
2405.0	-0.22	---	---	Fundamental
2440.0	-0.25	---	---	Fundamental
2475.0	-1.20	---	---	Fundamental

4810.0	-38.47	-20.22	18.25	Pass
7215.0	-51.04	-20.22	30.82	Pass
9620.0	-57.67	-20.22	37.45	Pass
4880.0	-37.12	-20.25	16.87	Pass
7320.0	-49.29	-20.25	29.04	Pass
9760.0	-54.70	-20.25	34.45	Pass
4950.0	-43.14	-21.20	21.94	Pass
7425.0	-53.47	-21.20	32.27	Pass

Conducted spurious emissions - low channel

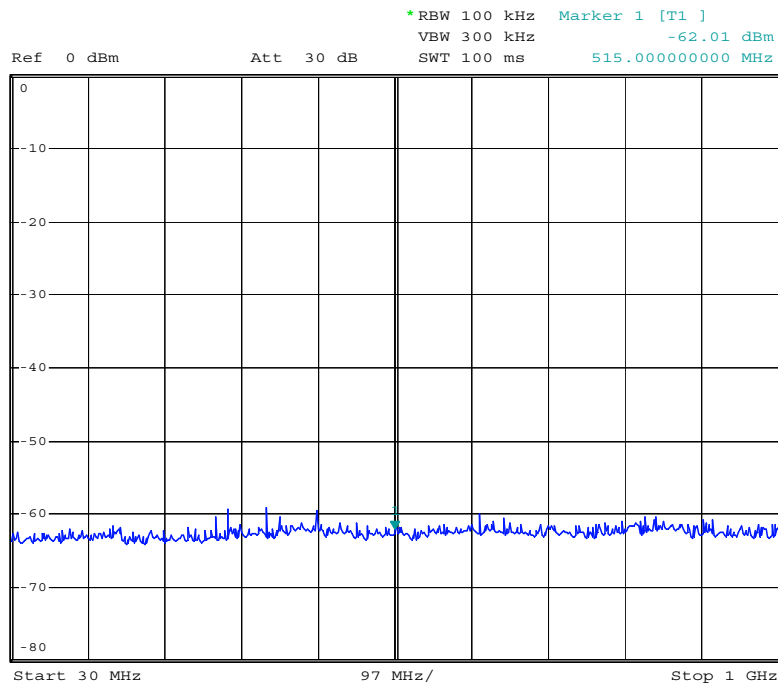


Date: 6.NOV.2007 18:45:33

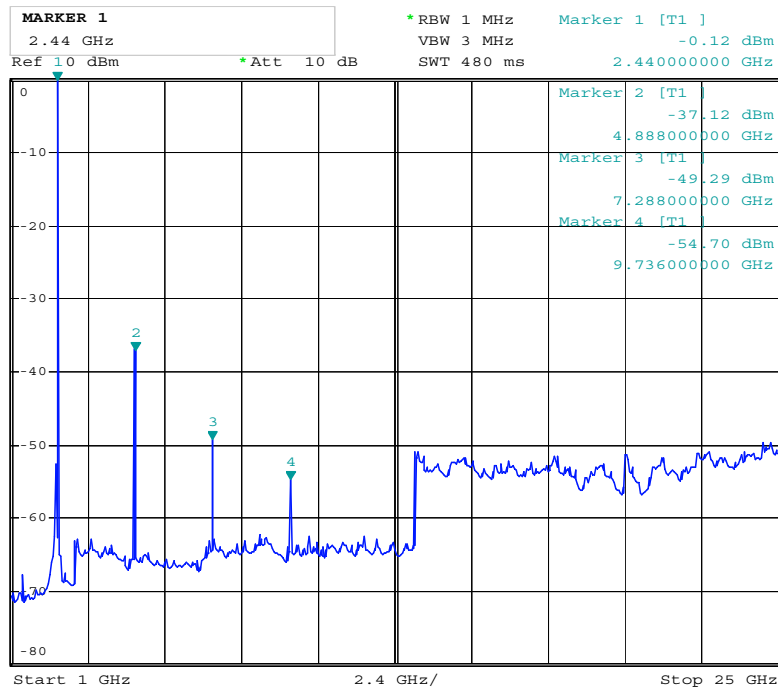


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Conducted spurious emissions - middle channel

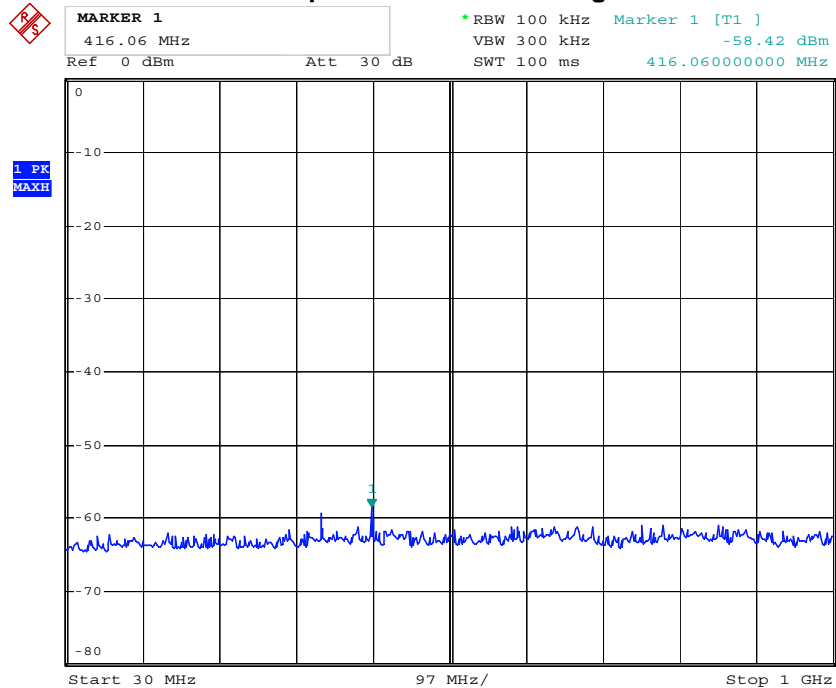


Date: 6.NOV.2007 18:50:02

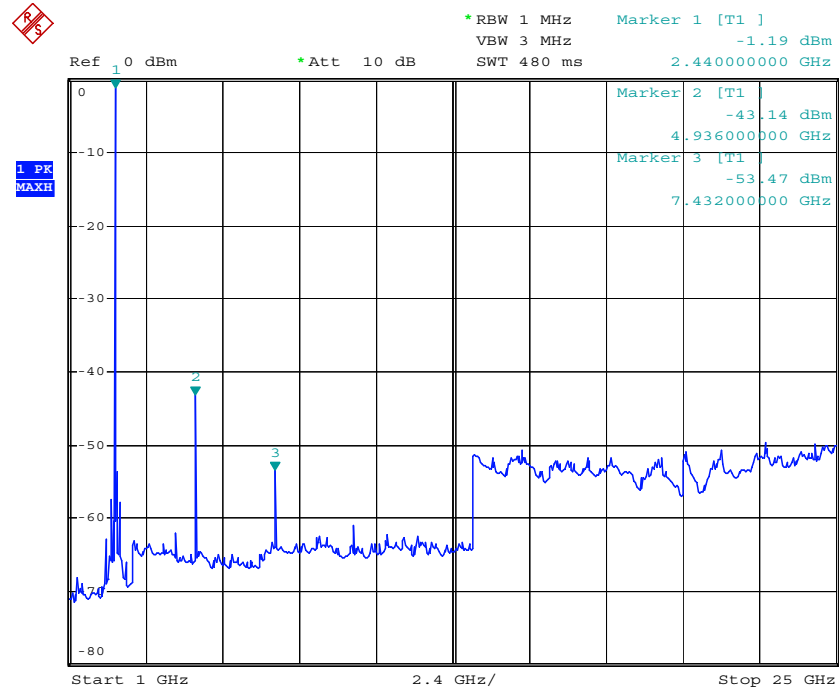


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Conducted spurious emissions - high channel



Date: 6.NOV.2007 18:51:08



Date: 6.NOV.2007 18:55:18

Spurious Emissions

Rules and Specifications:	15.247 (c)
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, output power set to maximum
Date of Test:	

Unit A with external 5 dBi Dipole antenna, lowest, middle and highest RF Channel

Frequency (MHz)	Antenna Polarisation	Detector	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2405.0	Vertical	Peak	60.82	36.04	96.86	---	---
2440.0	Vertical	Peak	62.35	36.20	98.55	---	---
2475.0	Vertical	Peak	62.05	36.36	98.41	---	---
Low Channel							
199.94	Vertical	Peak	21.69	12.34	34.03	43.50	9.02
797.07	Vertical	Peak	18.45	22.88	41.33	46.00	4.67
1066.0	Vertical	Peak	24.45	25.96	50.41	54.00	3.59
4806.0	Vertical	Peak	9.06	40.94	50.00	54.00	4.00
Middle Channel							
199.94	Vertical	Peak	21.89	12.34	34.23	43.50	9.27
1060.00	Vertical	Peak	18.13	25.87	44.00	54.00	10.00
1330.00	Vertical	Peak	21.655	28.23	49.88	54.00	4.12
4882.00	Vertical	Peak	12.12	41.24	53.36	54.00	0.64
High Channel							
199.94	Vertical	Peak	21.27	12.34	33.61	43.50	9.89
798.24	Vertical	Peak	15.20	22.90	38.09	46.00	7.91

1060,00	Vertical	Peak	18.82	25.87	44.69	54.0	9.31
1330.00	Vertical	Peak	21.55	28.23	49.78	54.00	4.22
1600.00	Vertical	Peak	16.65	29.95	46.60	54.00	7.40

Unit B with internal chip antenna, lowest, middle and highest RF Channel

Frequency (MHz)	Antenna Polarisation	Detector	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2405.0	Vertical	Peak	50.35	36.04	86.39	---	Fundamental
2440,0	Vertical	Peak	50.50	36.20	86.70	---	Fundamental
2475.1	Vertical	Peak	48.17	36.36	84.53	---	Fundamental
Low Channel							
166.57	Horizontal	Peak	23.28	10.57	33.84	43.50	9.66
200.33	Horizontal	Peak	21.46	1.35	33.81	43.50	9.69
Middle Channel							
37.76	Vertical	Peak	16.62	14.35	30.98	40.00	10.02
1059,00	Vertical	Peak	18.51	25.86	44.37	54.00	9.63
High Channel							
30 - 12750	Hor/Ver	Peak	***				

*** Margin to limit >> 10 dB

Radiated Emission Measurement 9 kHz to 30 MHz

Rules and Specifications:	CFR 47 Part 15, sections 15.205 and 15.209			
Guide:	ANSI C63.4-2003			
Limit:	Frequency of Emission (MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance d (meters)
	0.009 - 0.490	2400/F(kHz)	67.6 - 20 · log(F(kHz))	300
	0.490 - 1.705	24000/F(kHz)	87.6 - 20 · log(F(kHz))	30
	1.705 - 30.000	30	29.5	30
	Additionally, the level of any unwanted emissions shall not exceed the level of the fundamental emission.			

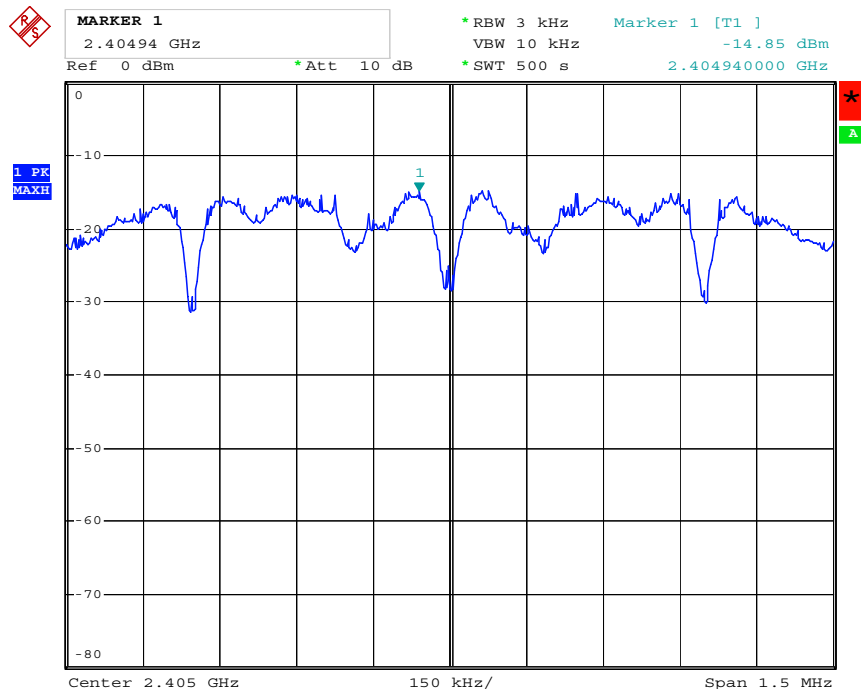
Test Result	Pass (No emissions below 30 MHz found)
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Power Spectral Density

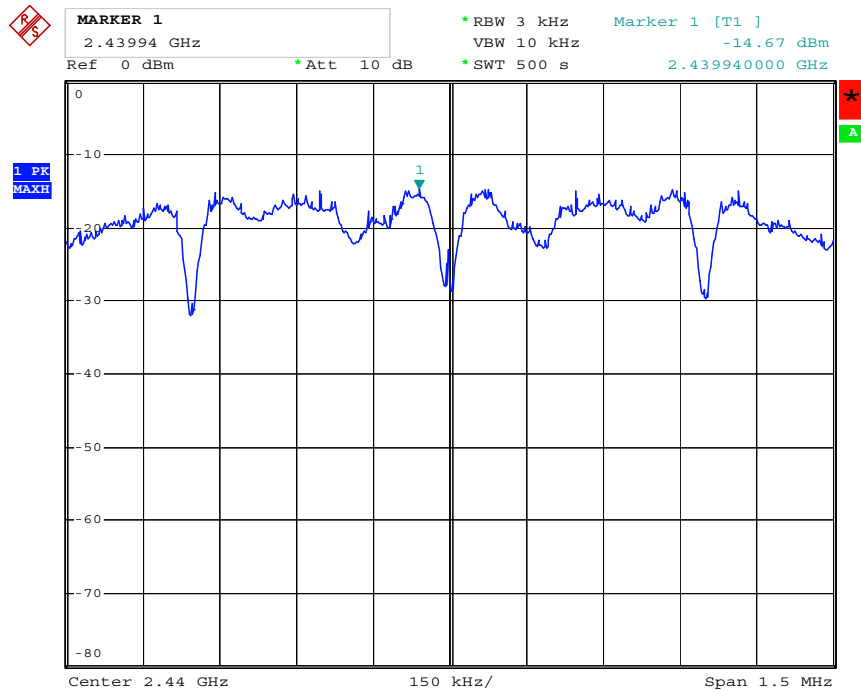
Rules and Specifications:	15.247 (e)
Guide:	ANSI C63.4:2003
Limit:	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Test Site:	Radio Lab.
Distance:	Conducted Measurement, output power set to maximum
Date of Test:	06 November 2007

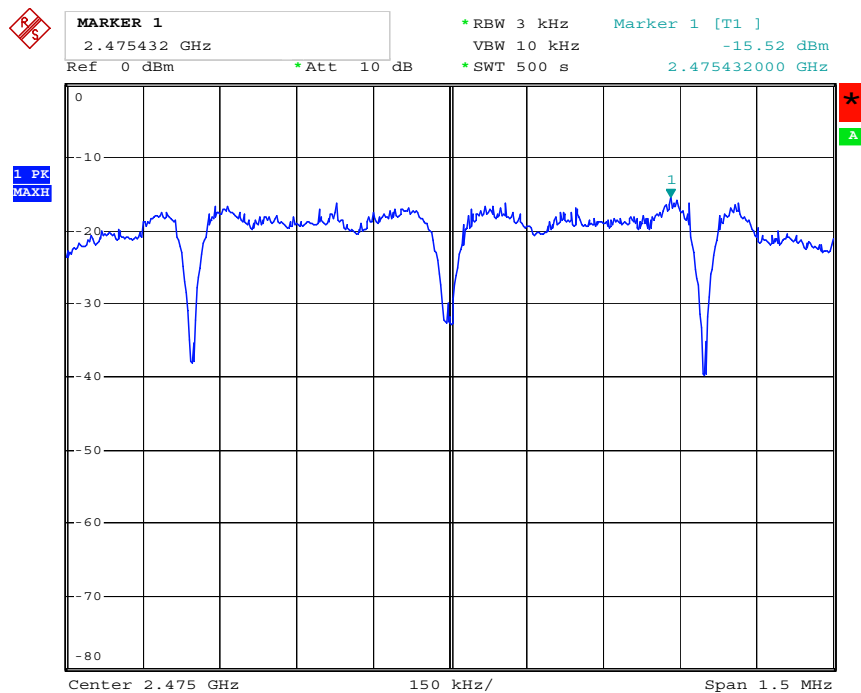
Frequency	Power Spectral Density in dBm/3 kHz		Standard dBm / 3 kHz	Result
Low (2405 MHz)	-14.85		< 8	Pass
Middle (2440 MHz)	-14.67		< 8	Pass
High (2475 MHz)	-15.52		< 8	Pass



Date: 6.NOV.2007 19:11:03



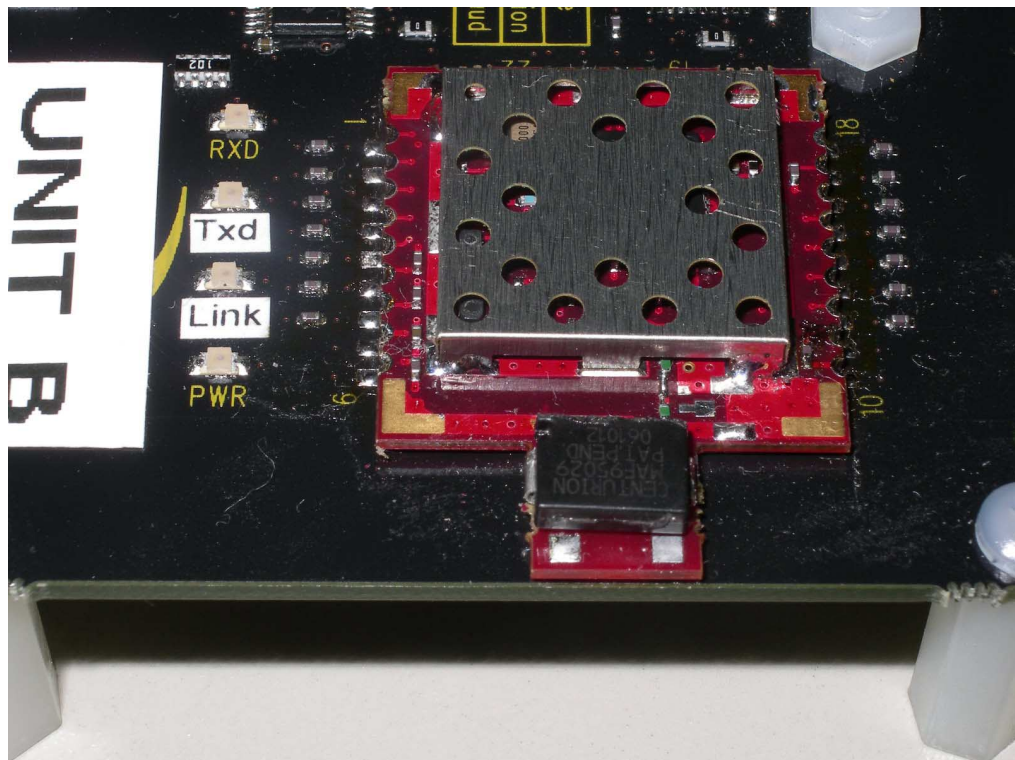
Date: 6.NOV.2007 19:20:53



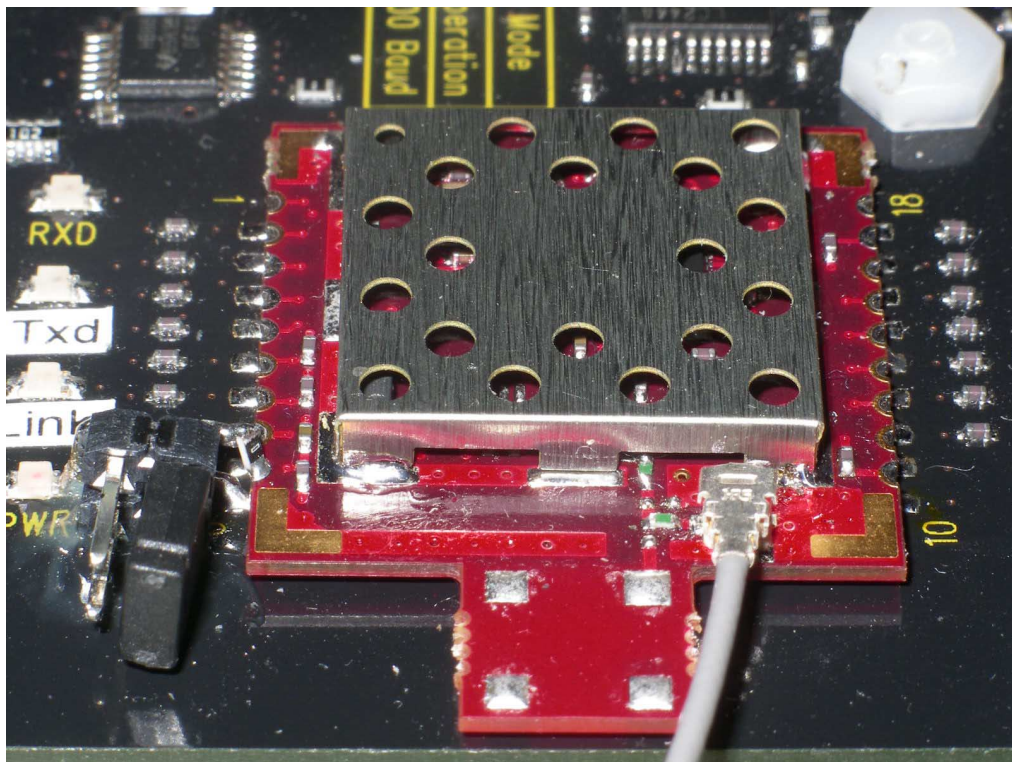
Date: 6.NOV.2007 19:32:29

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 Hirose U.FL series connector which meets the requirements for an unique antenna coupler or an integrated antenna.



Integrated antenna



Connector for external 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)
1500 - 100 000 MHz	---	---	1.0	30

f = frequency in MHz

MPE Prediction of MPE according to equation from page 19 of OET Bulletin 65, Edition 97-01

$$S = PG/4\pi R^2$$

Where: S = power density

P = power input to antenna

G = power gain of the antenna relativ to an isotropic radiator

R = Distance to the center of radiation of the antenna

Maximum output power at antenna input terminal:

0 dBm = 1 mW

Prediction distance:

20 cm

Antenna gain:

5.0 dBi = 3.16 (numerical gain)

Power density at 20 cm:

0.0006 mW/cm²

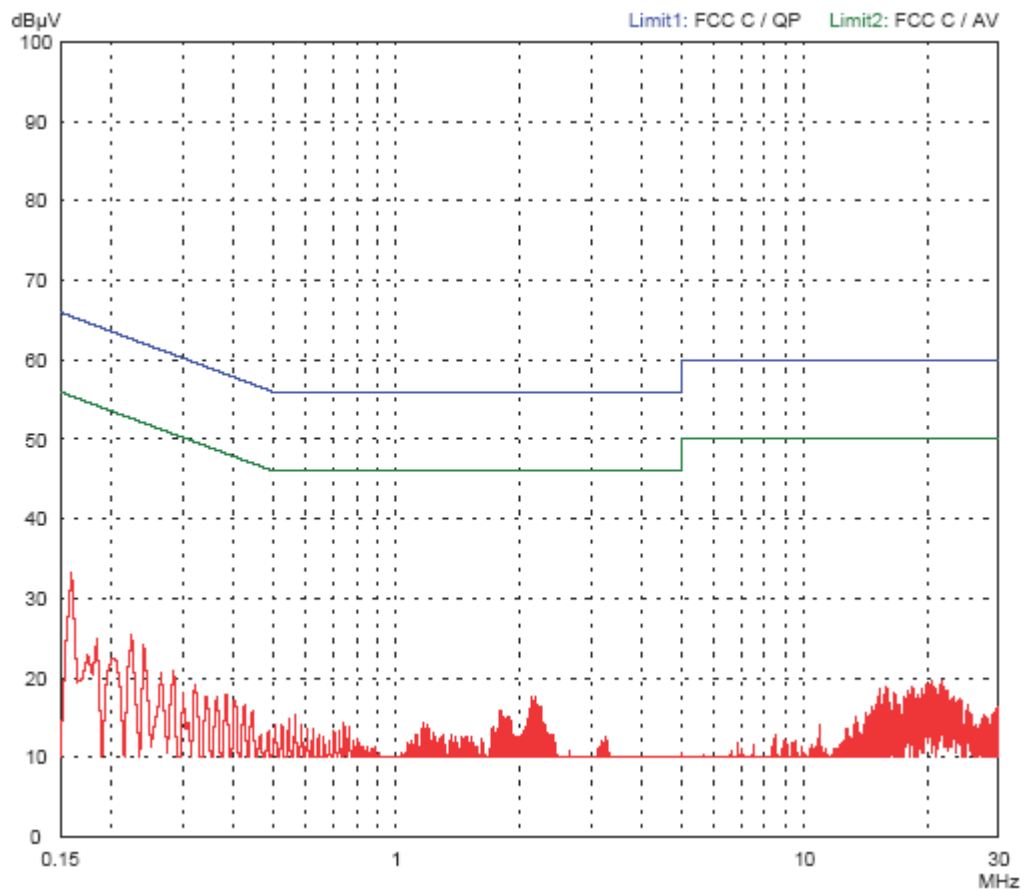
Test Result:	Pass	
---------------------	-------------	--

Conducted Powerline Emission Measurement

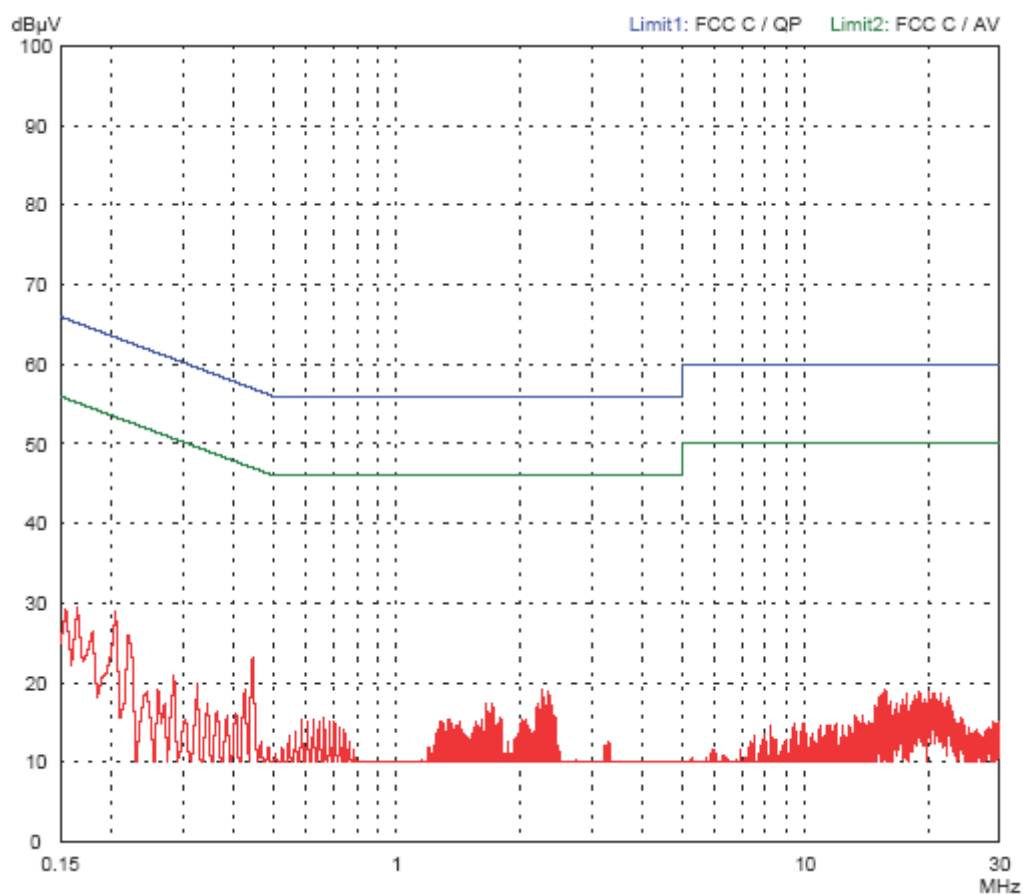
Rules and Specifications:	15.107, 15.207		
Guide:	CISPR 22		
Limit:	Frequency of Emission (MHz)	Conducted Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5 0.5 – 5 5 - 30	66 to 56 56 60	56 to 46 46 50

	Line Cord AC powerline - Live Wire
Test Site:	EMC Lab. - Shielded Room 1
Distance:	Conducted Measurement
Date of Test:	27 November 2007

Live Wire



Neutral Wire



Note: Margin to limits > 20 dB

Sample calculation of Final values:

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

Test Results:	Pass	
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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 (Unit A with external antenna)
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

[illegible]

Tested Frequency:	RX Mode (Unit B with Chip antenna)
Test Site:	Open Area Test Site (< 1 GHz), Fully anechoic chamber (> 1 GHz)
Distance:	3 Meter

[illegible]

Sample calculation of erp values:

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

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 1, 2006 |
| ☒ | CFR 47 Part 15 | Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC) | May 04, 2007 |
| ☒ | 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) |

9. Revision History

Edition	Date	Issued by	Note
01	28 November 2007	J. Roidt	First edition
02	07 January 2008	C. Jäger	Edition 2 FCC ID changed to: KQL-ZB2430D

10. Charts taken during testing

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
11/20/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at Channel 1 (2405 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

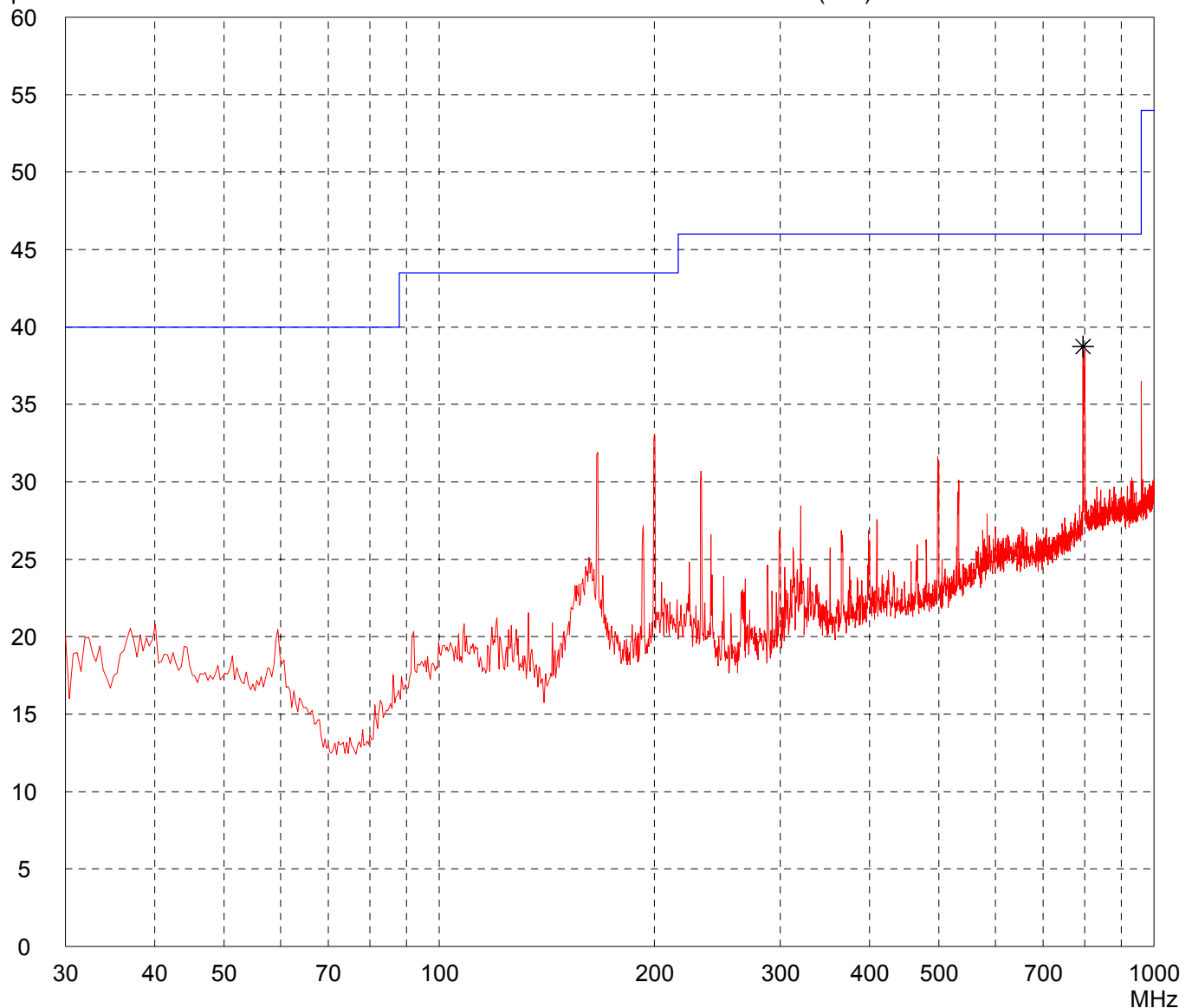
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
11/20/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- RX at Channel 8 (2440 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

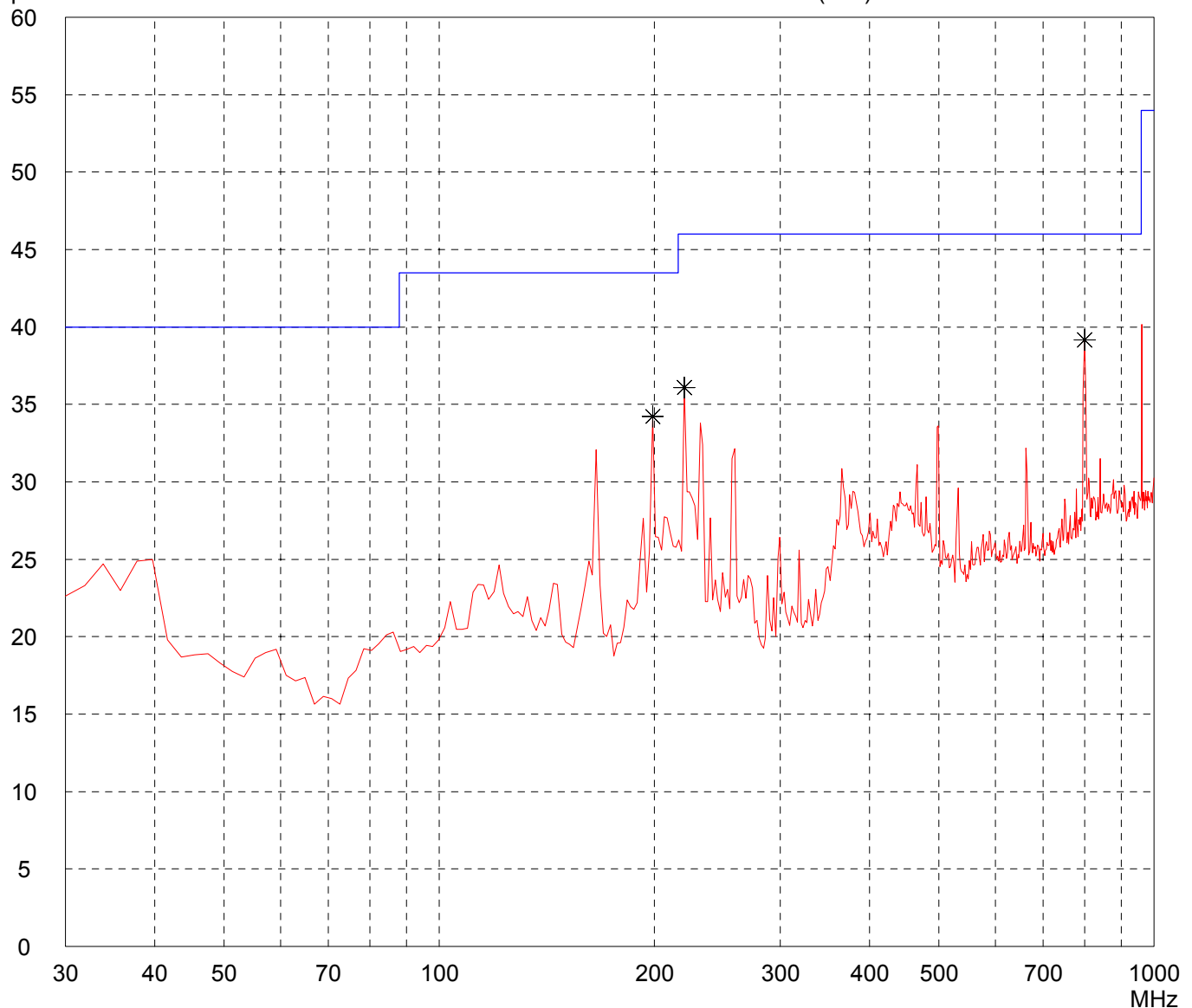
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 11/20/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

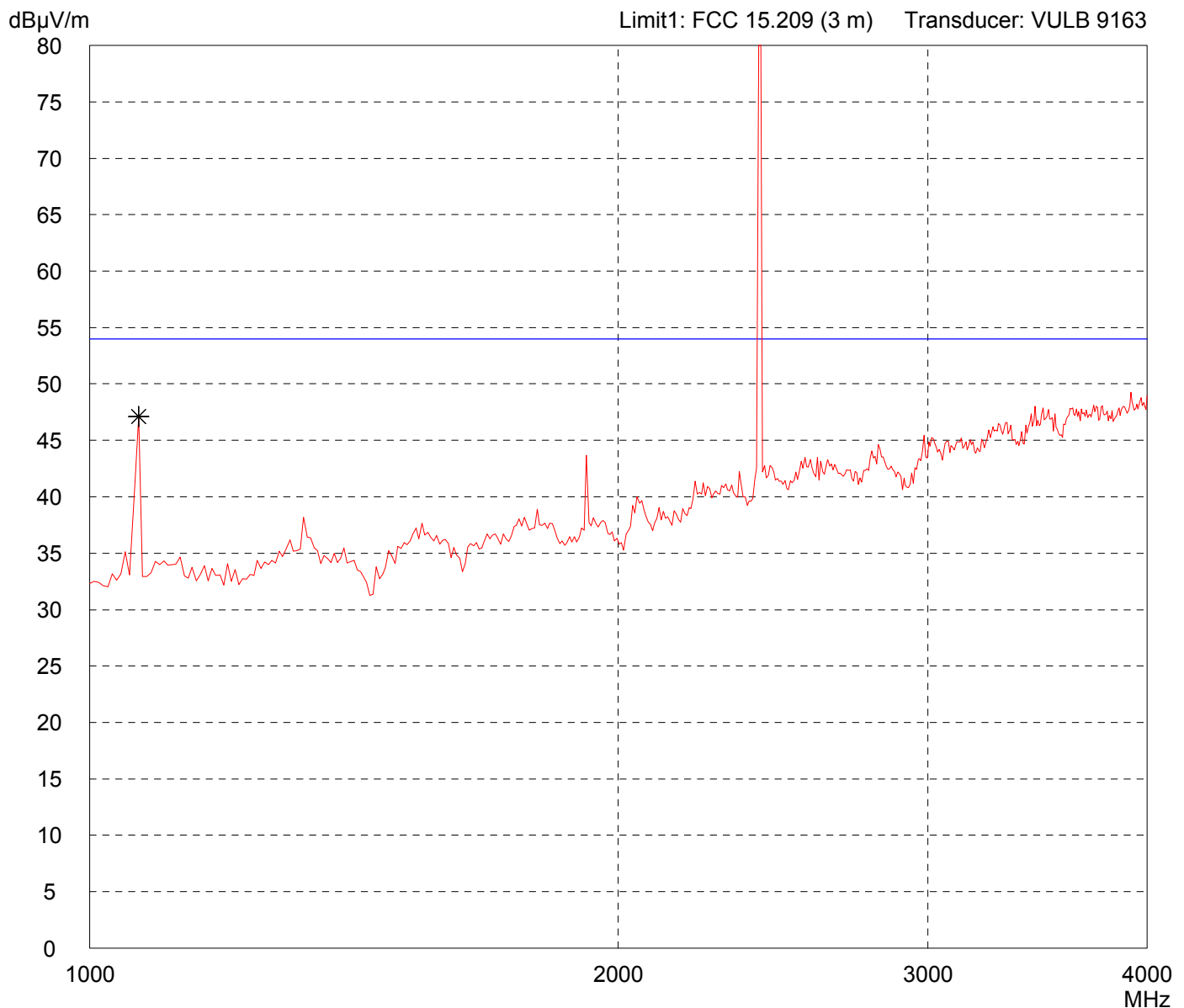
- TX at Channel 1 (2405 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

Selected by hand



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
11/20/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

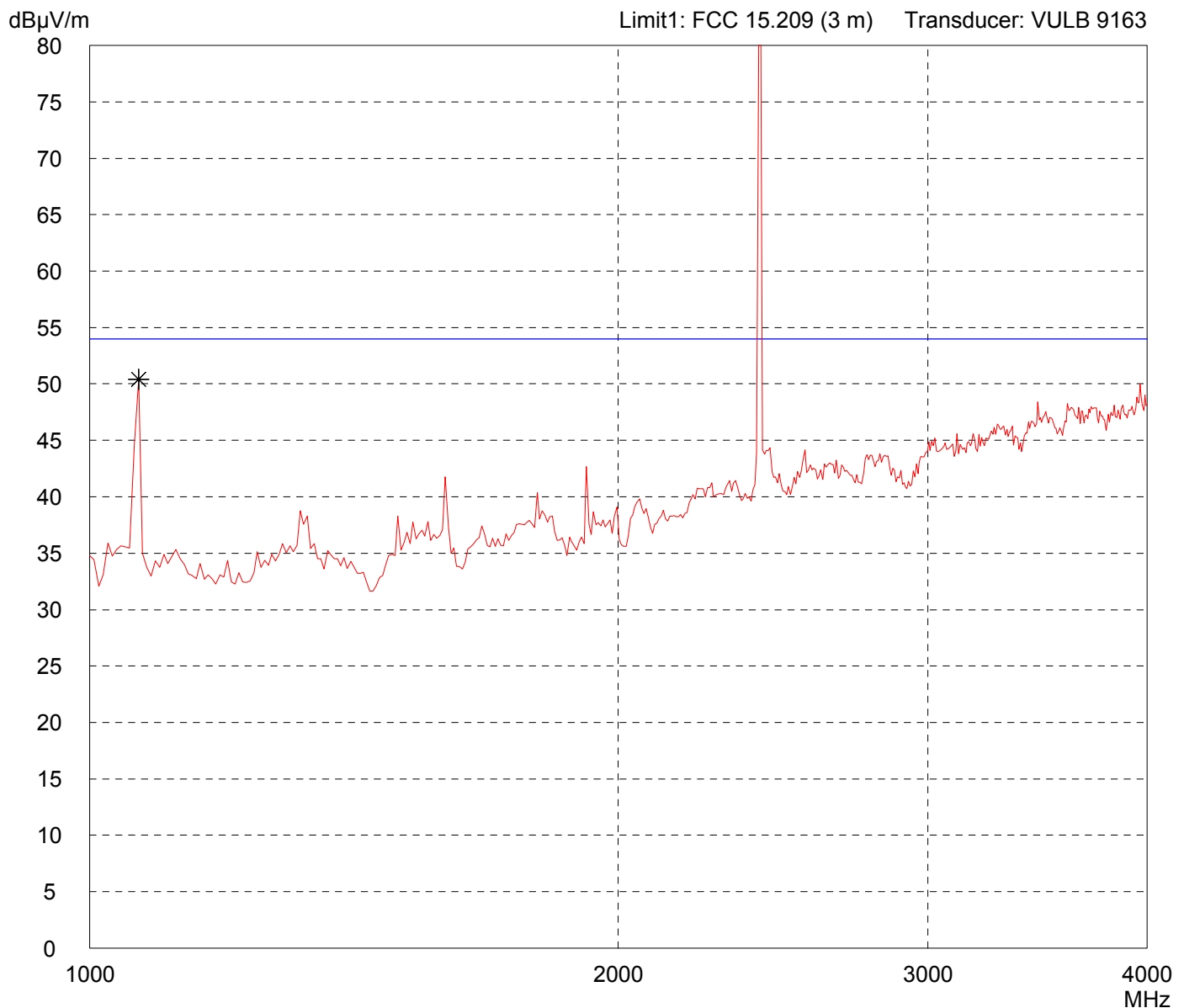
- TX at Channel 1 (2405 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

Selected by hand



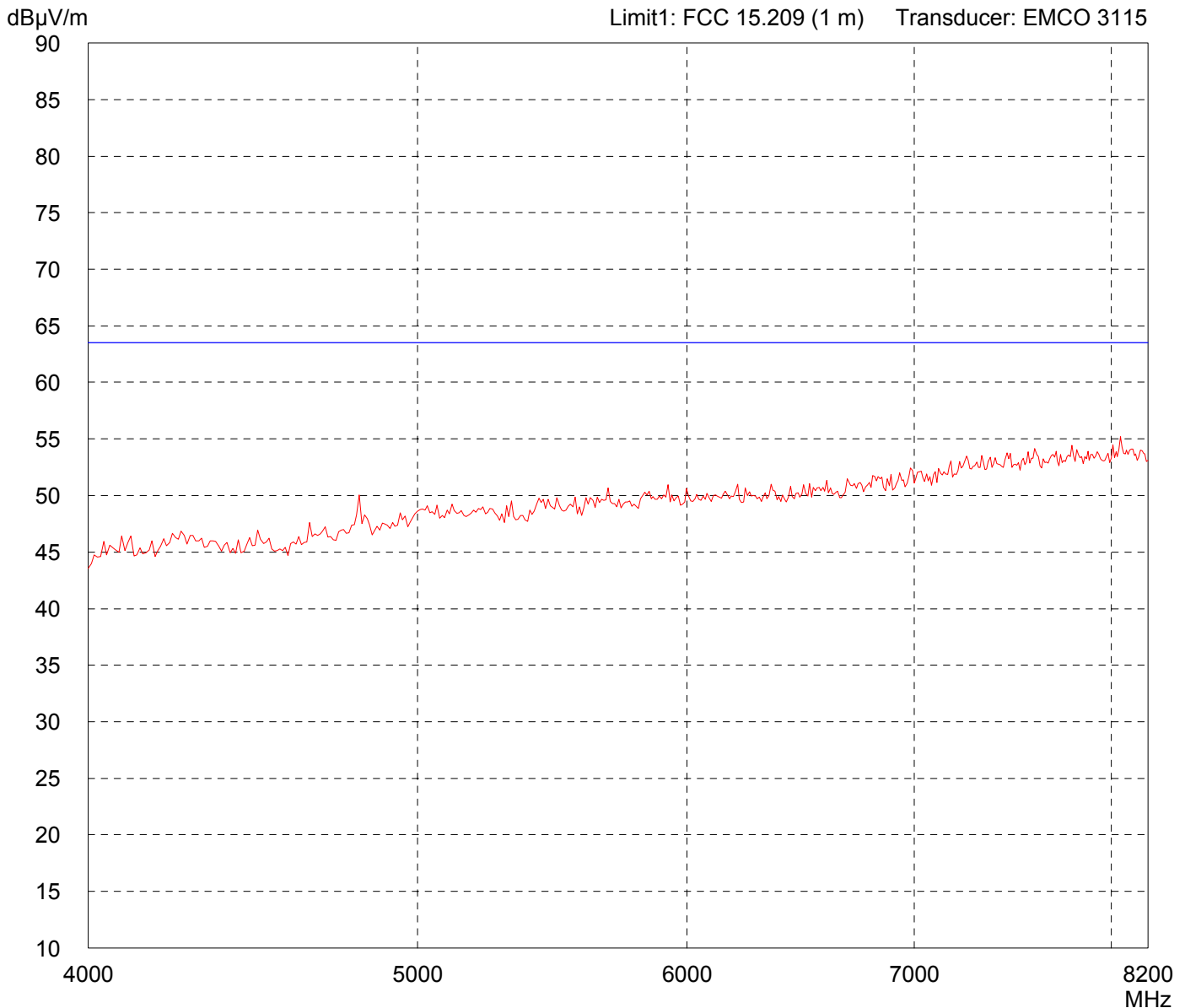
Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 1 (2405 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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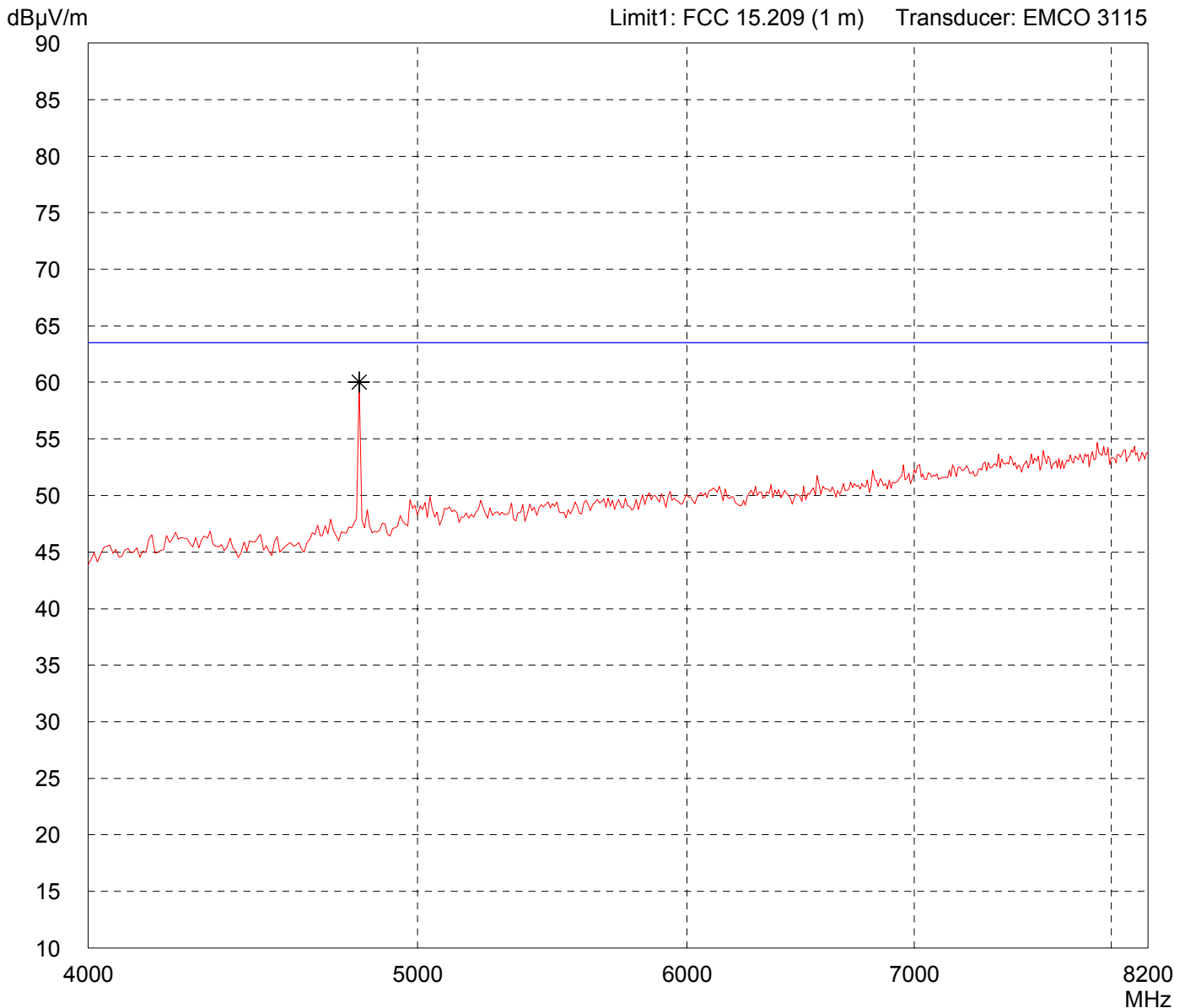


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 4 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 1 (2405 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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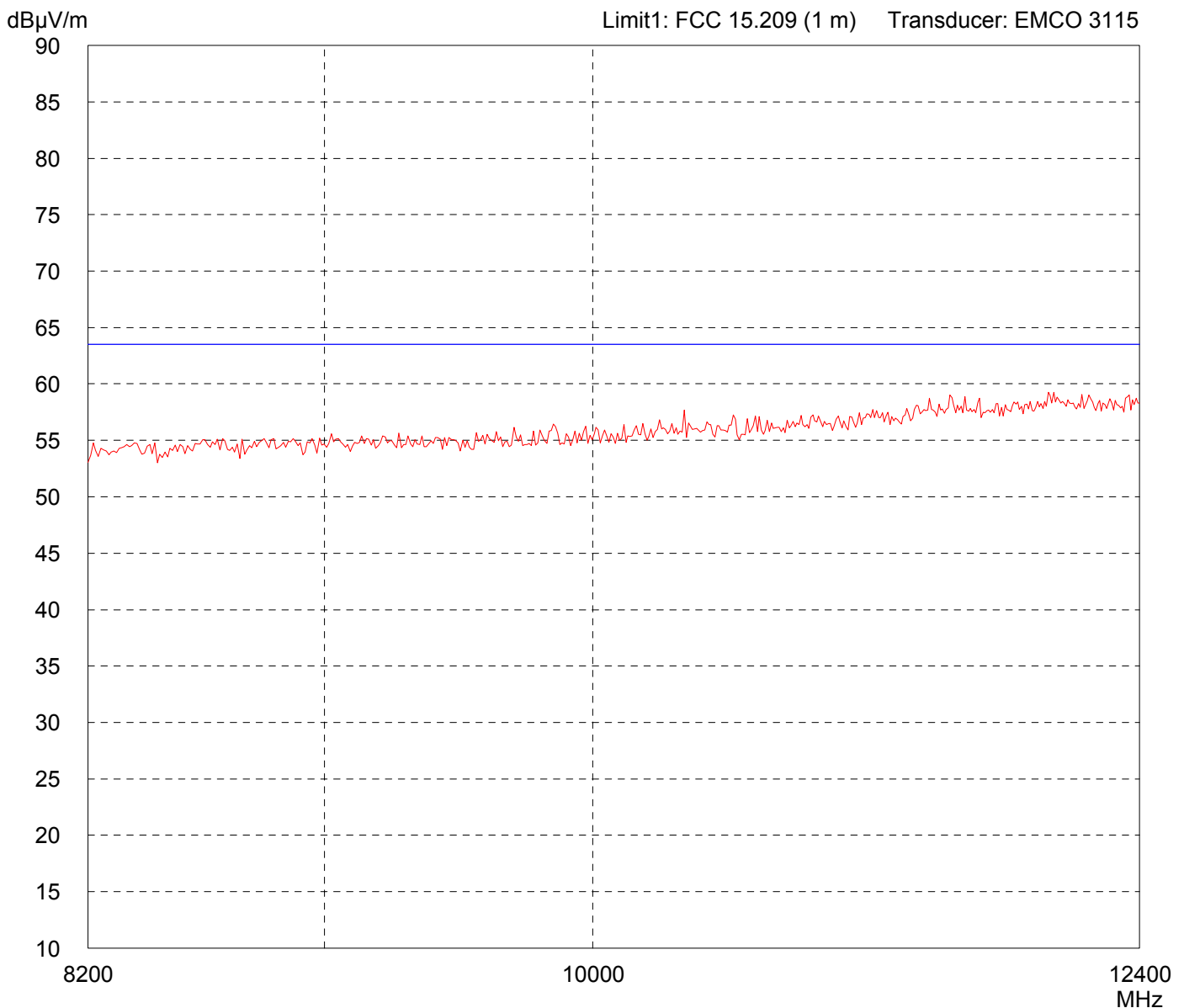


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 1 (2405 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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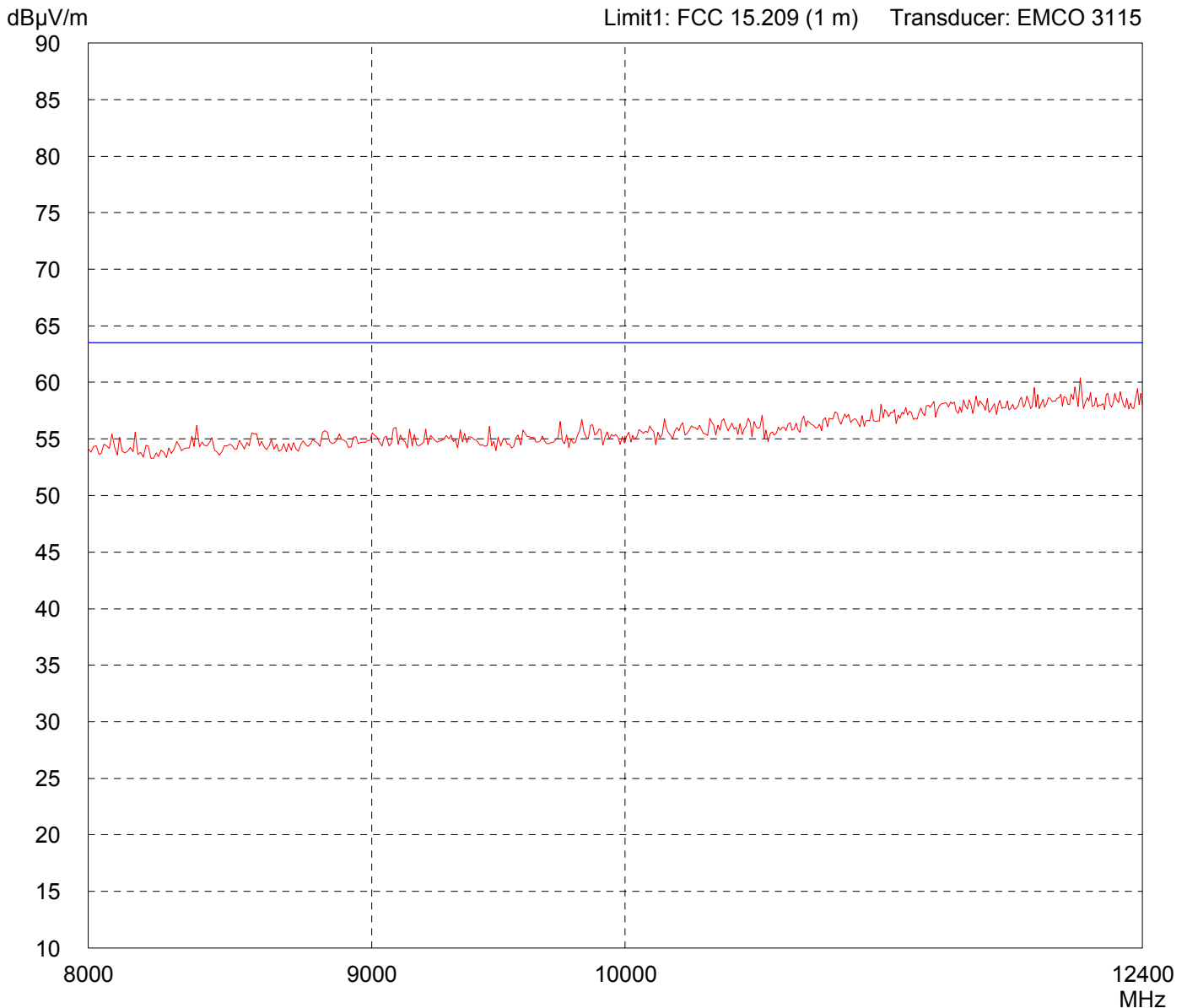


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 1 (2405 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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

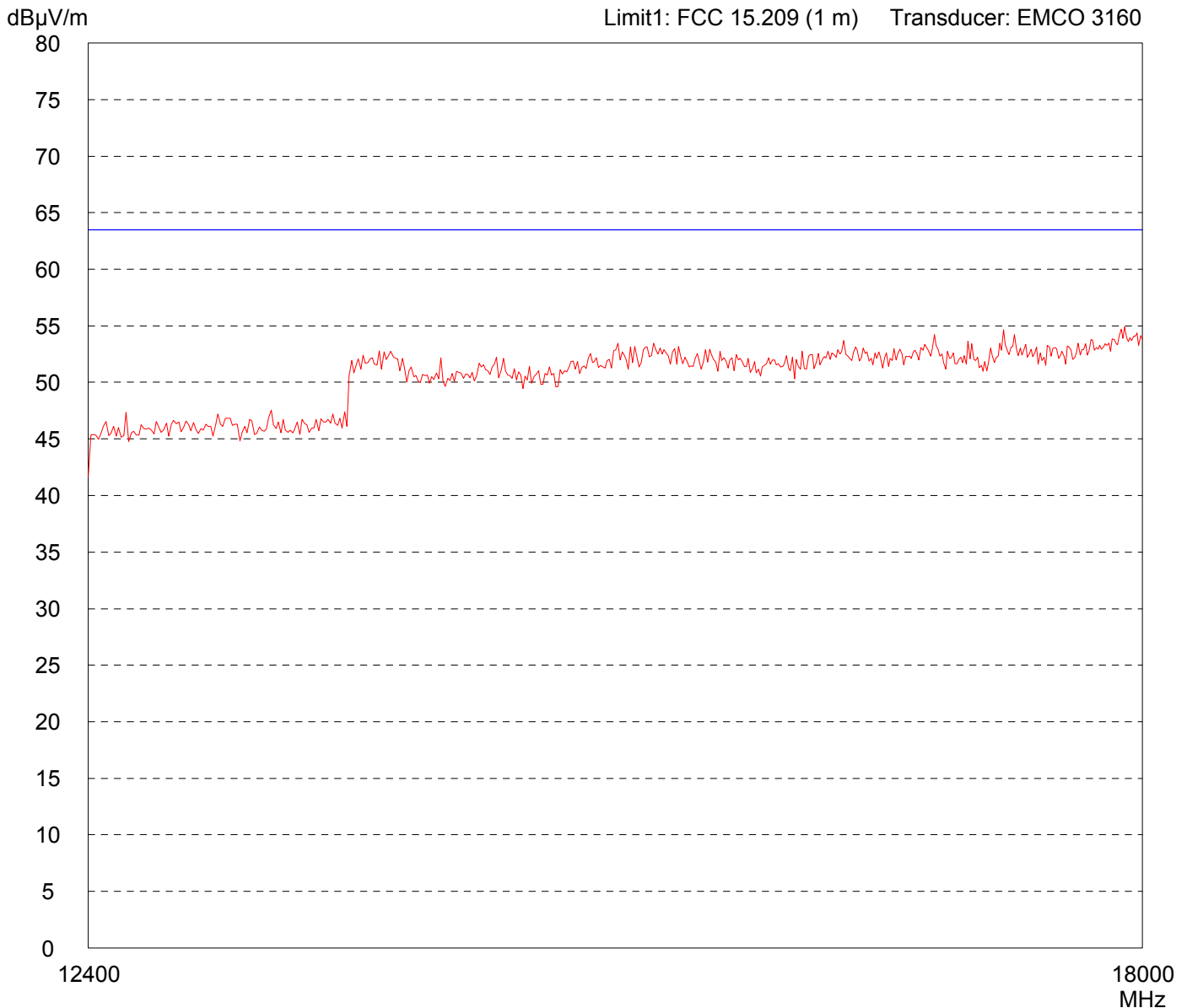


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 1 (2405 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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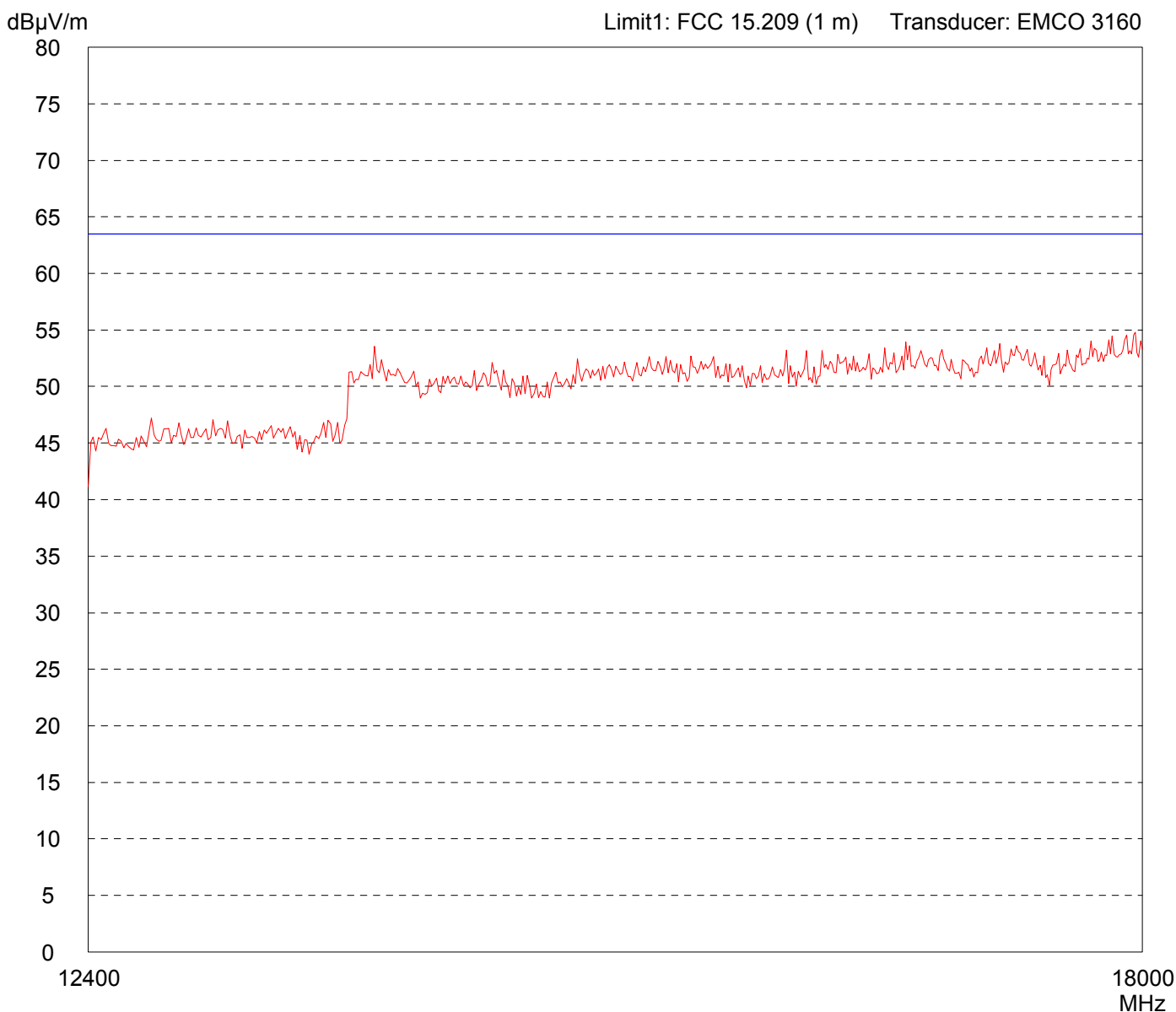


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX Mode at Channel 1 (2405 MHz) - Antenna: Nearson 5 dBi
Serial no.: Sample B (integrated antenna)	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 11/02/2007	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-71011-2
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Spurious emissions according to FCC Rules

Model:
ZB2430-D

Serial No.:
Unit A

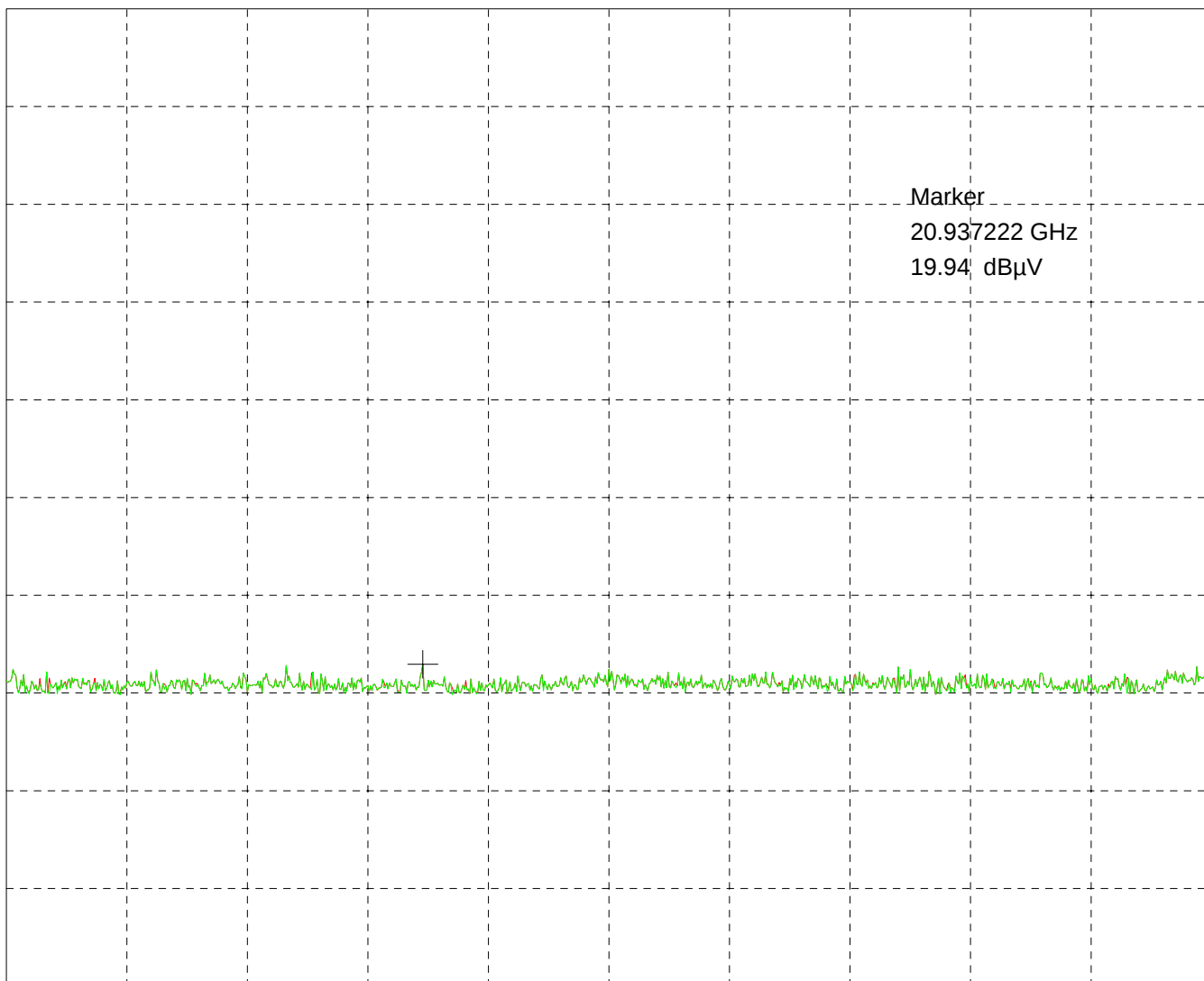
Applicant:
AEROCOMM, Inc.

Mode:
- TX at RF Channel 1 (2405 MHz)

- Antenna: Nearson 5 dBi

Ref.Level 87 dB μ V
10 dB/Div.

ATT 0 dB



Start 18.000 GHz
RBW 100 kHz

VBW 100 kHz

Stop 26.500 GHz
SWP 2.60 s

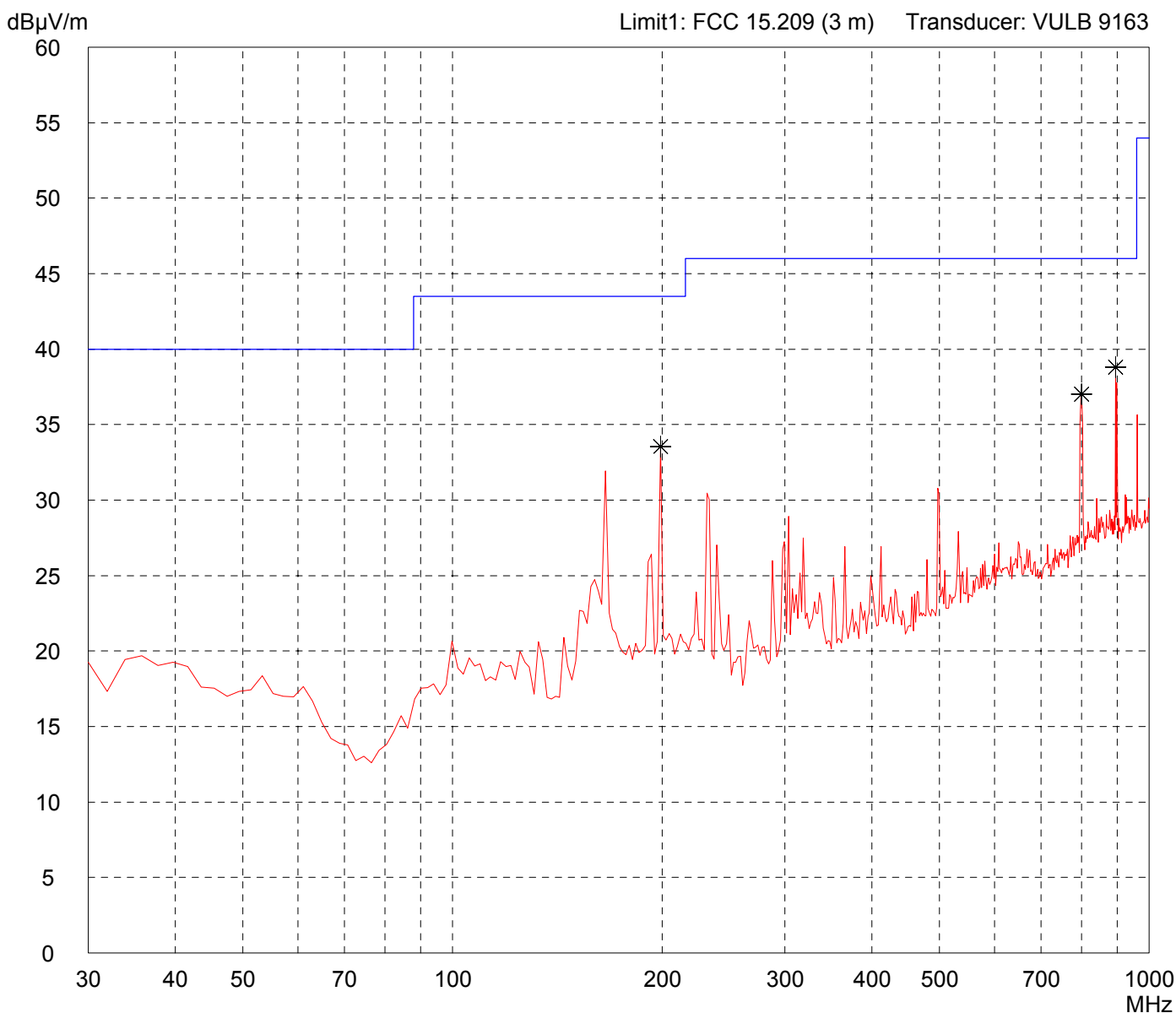
Tested by:
Johann Roidt

Date:
11 Nov 2007

Project-No.:
56109-071011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D Serial no.: Sample "A" Applicant: AEROCOMM, Inc. Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: 11/20/2007 Operator: J. Roidt Test performed: automatically File name: default.emi	Comment: - TX at Channel 8 (2440 MHz) - Antenna Nearson S151FC-L-(132)PX-2450S
Detector: Peak	List of values: 10 dB Margin 50 Subranges



Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/20/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

- TX at Channel 8 (2440 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

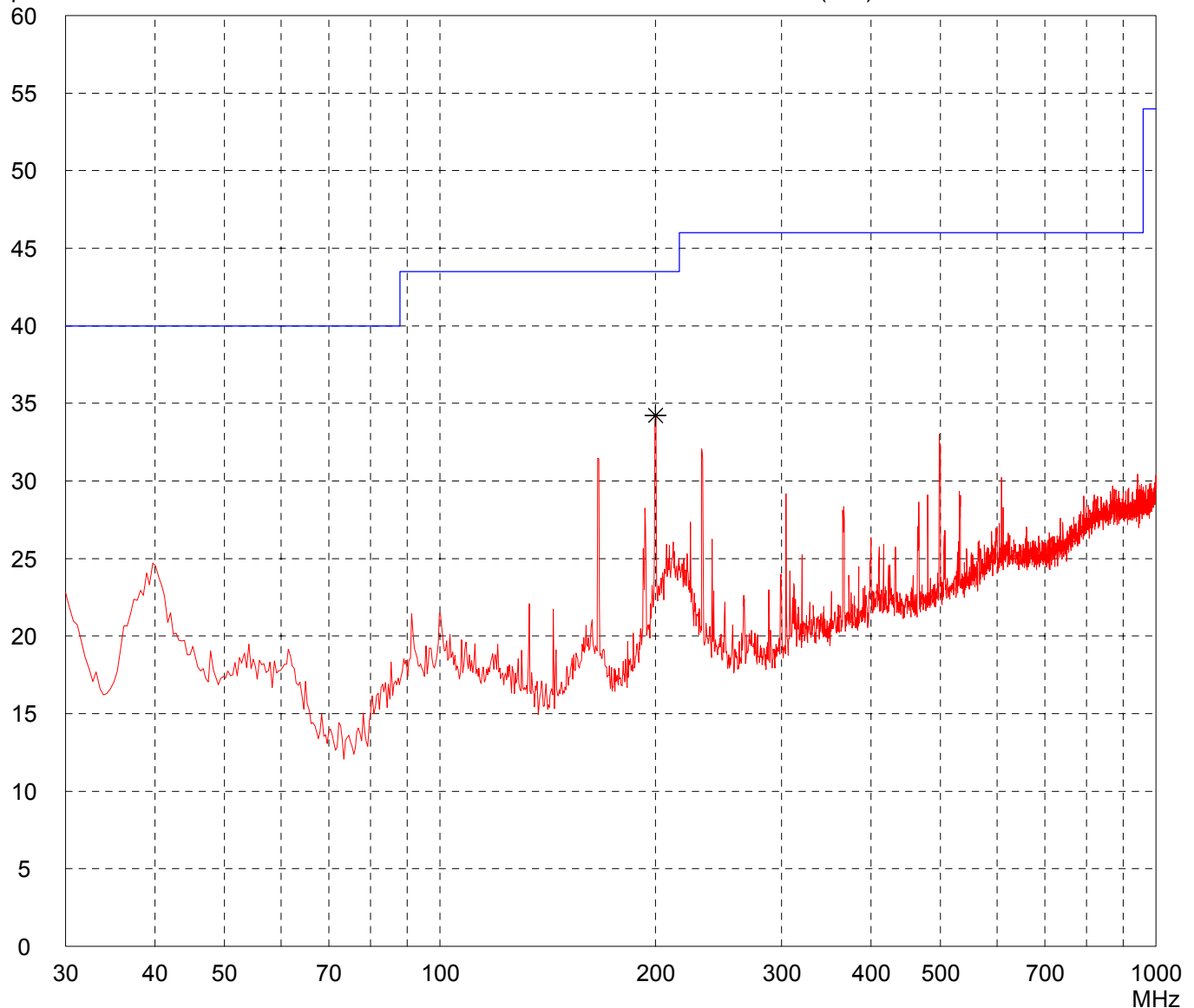
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 11/20/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

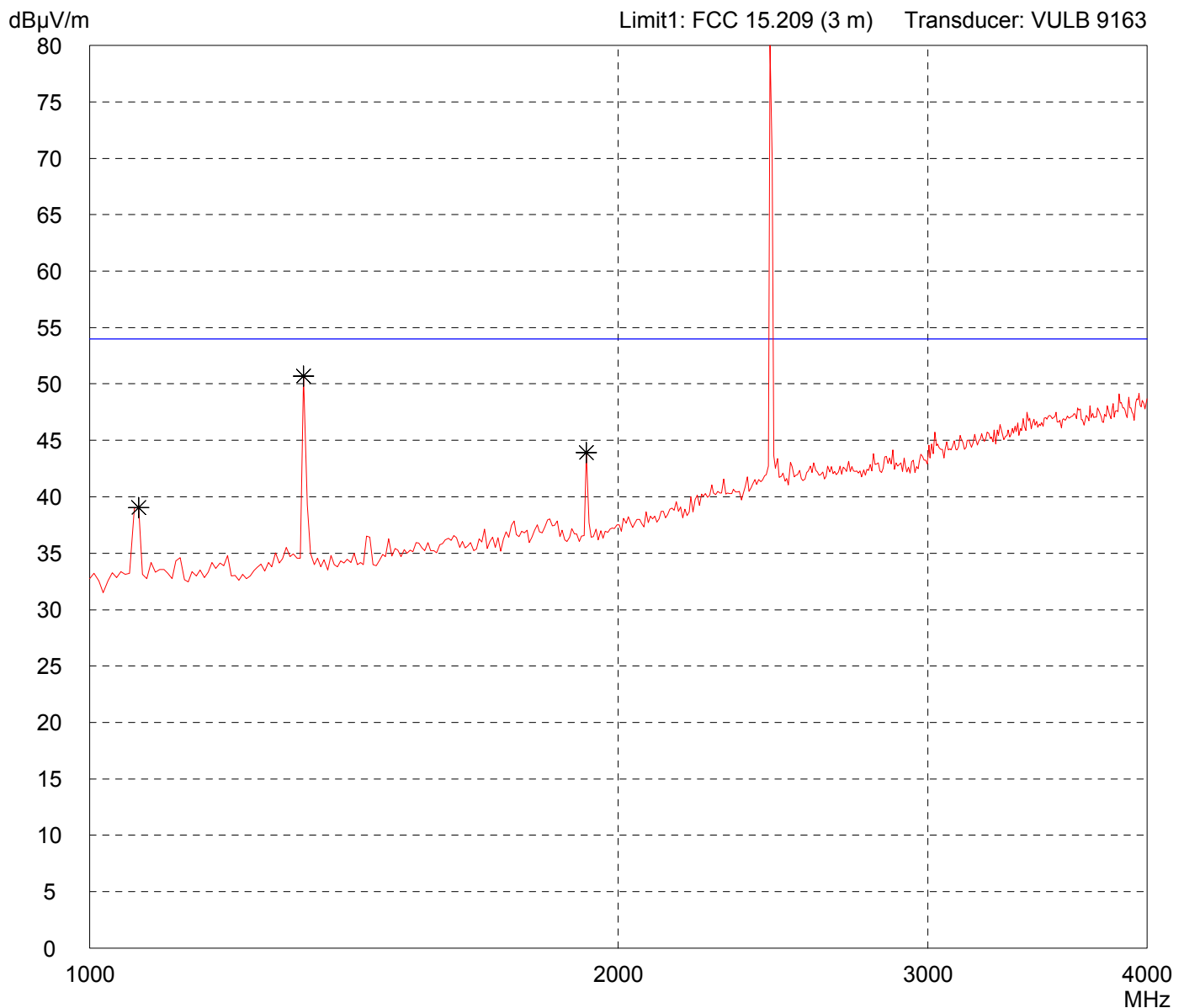
- TX at Channel 8 (2440 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

Selected by hand



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/20/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

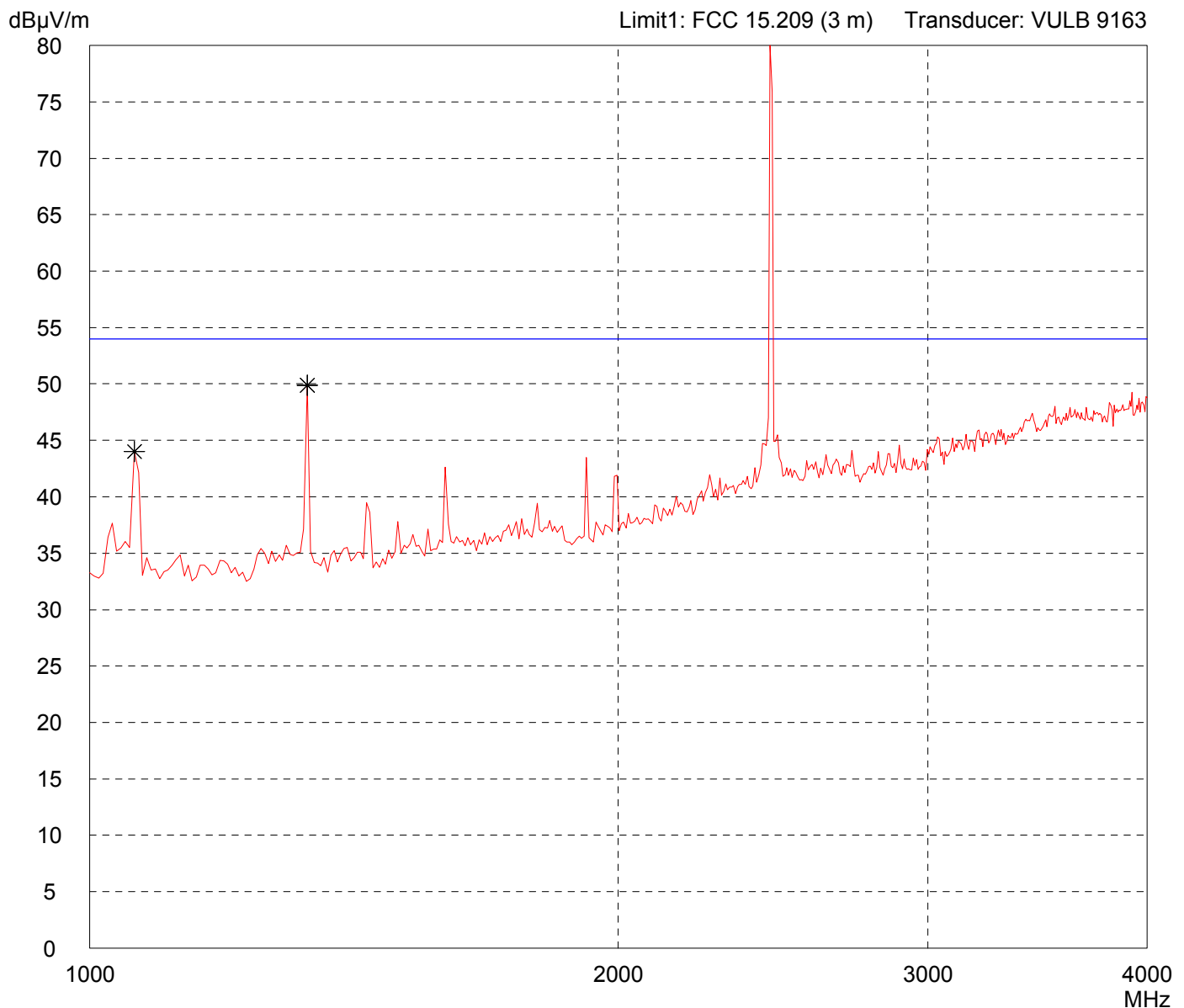
- TX at Channel 8 (2440 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

Selected by hand



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit A

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Horizontal Polarization

Date of test: 11/21/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

- TX at Channel 8 (2440 MHz)

- Antenna Nearson 5 dBi

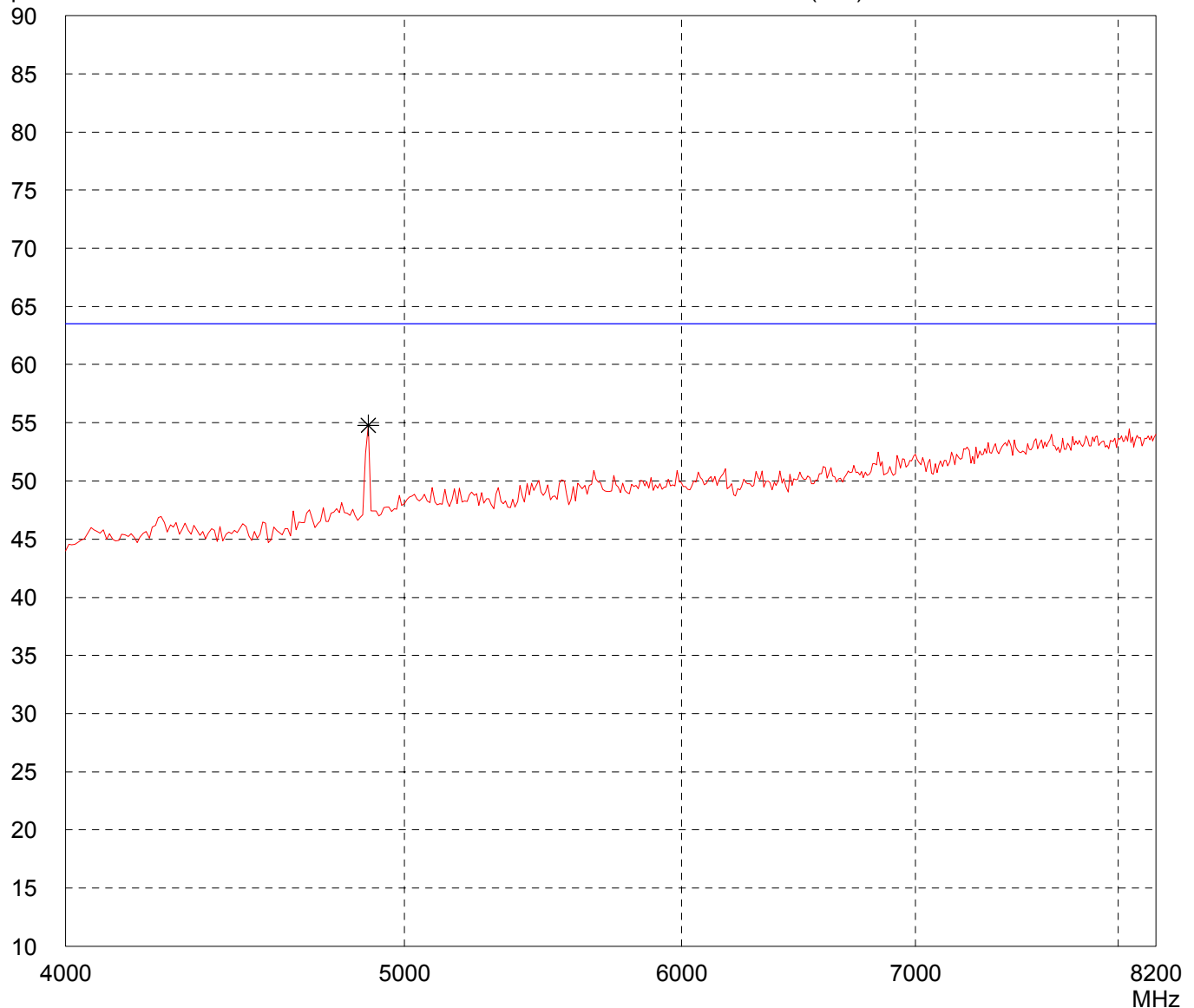
Detector:
Peak

List of values:

Selected by hand

dB μ V/m

Limit1: FCC 15.209 (1 m) Transducer: EMCO 3115



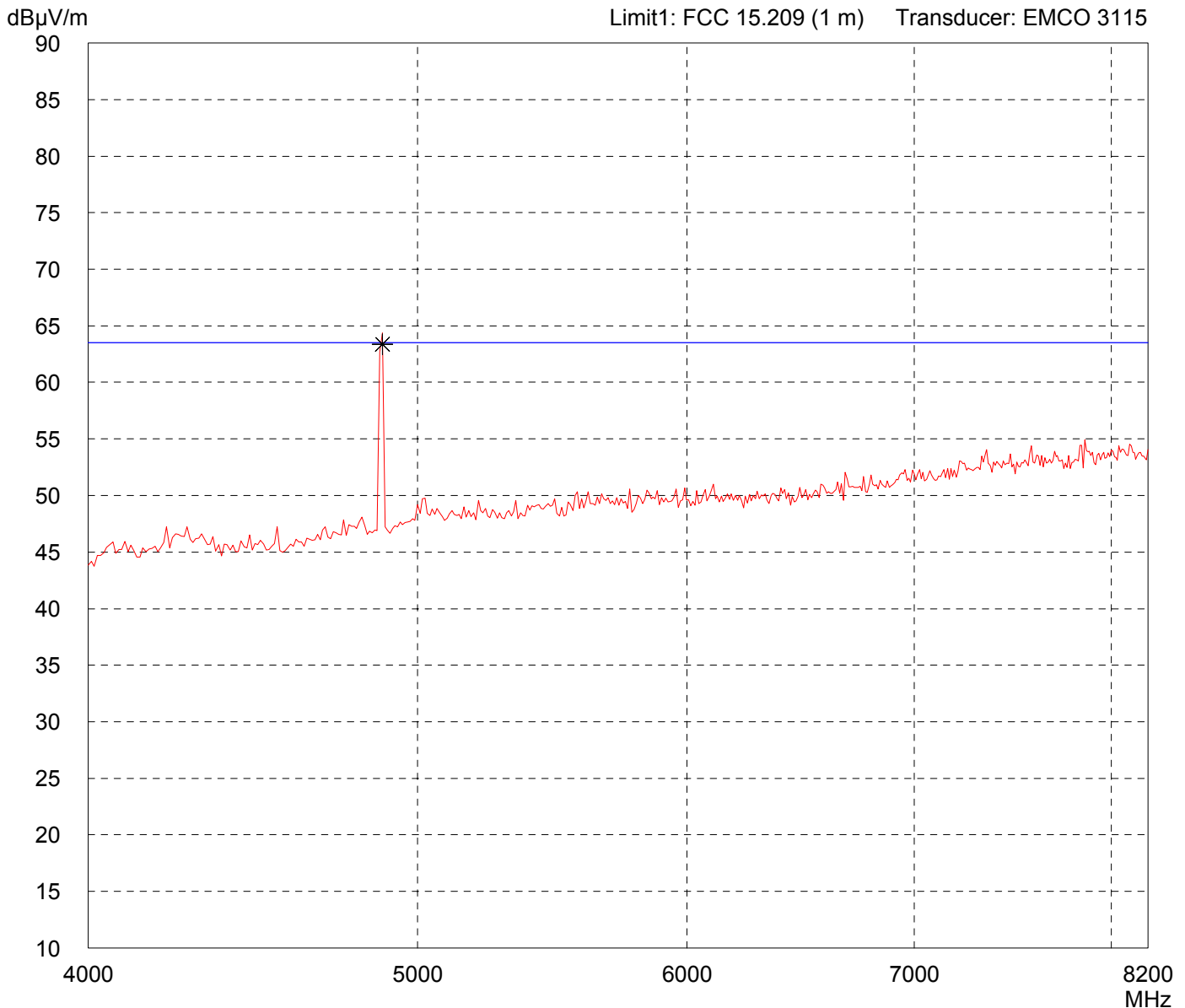
Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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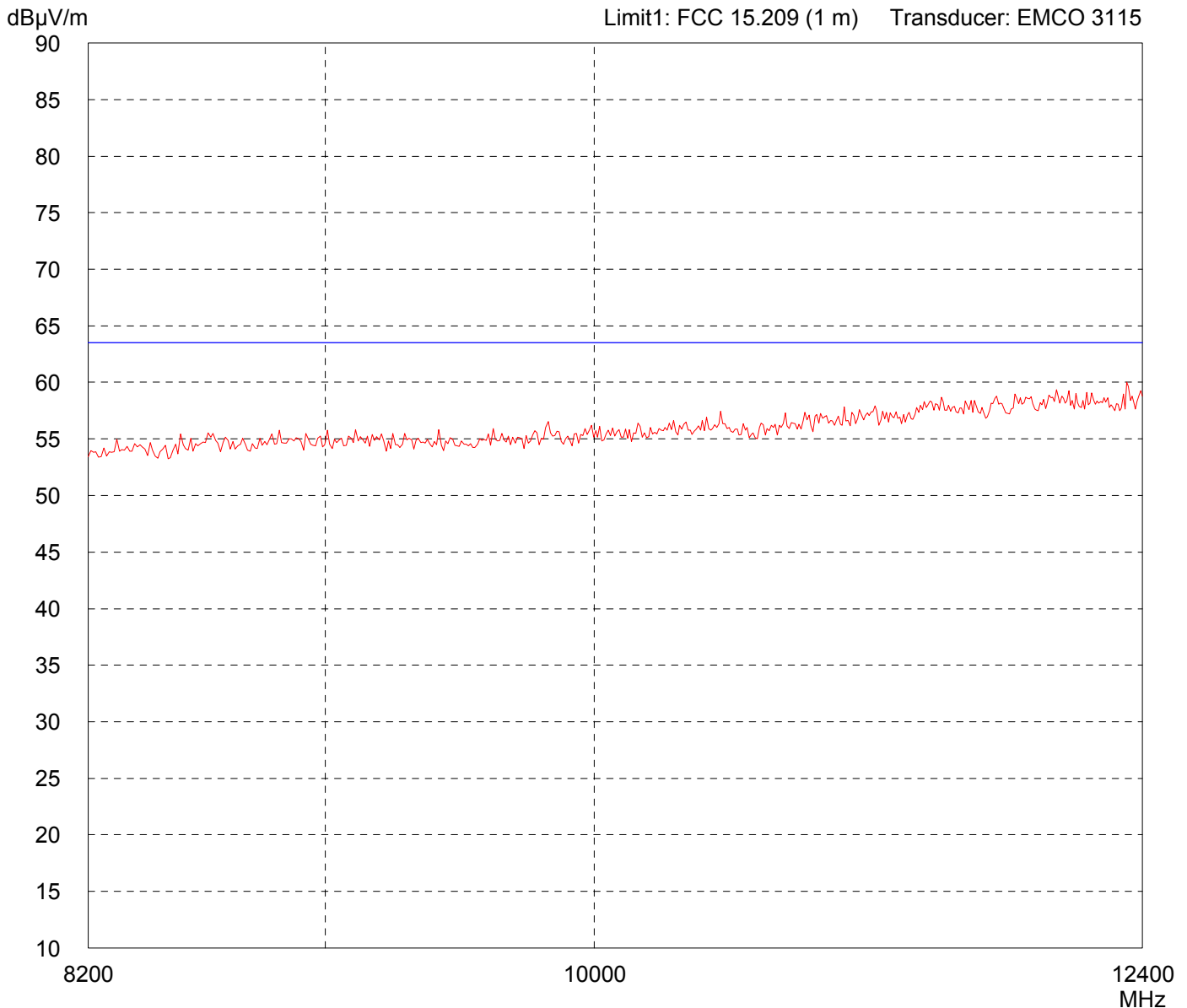


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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

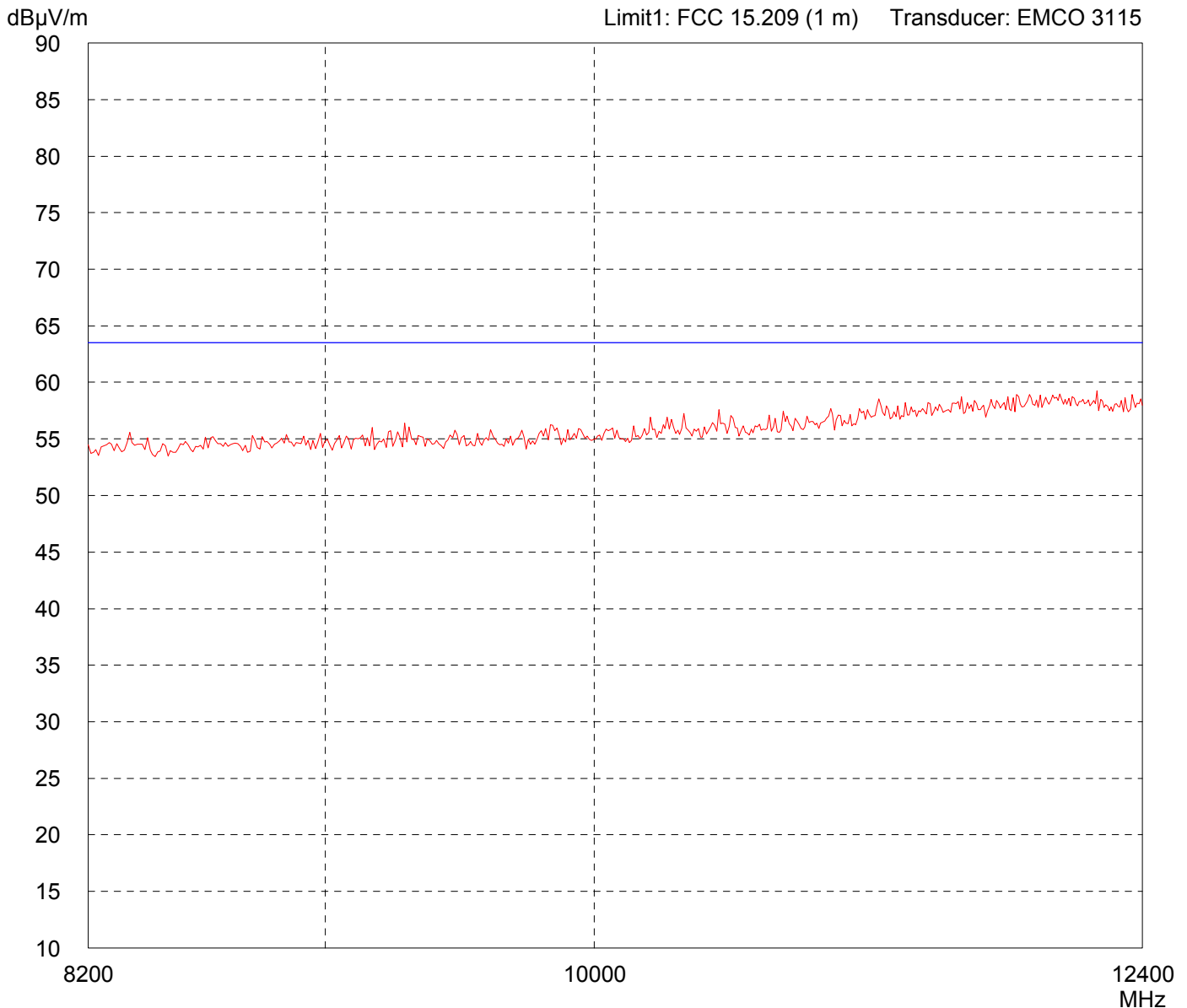


Result: Limit kept	Project file: 56109-71011-2
------------------------------	---------------------------------------

Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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

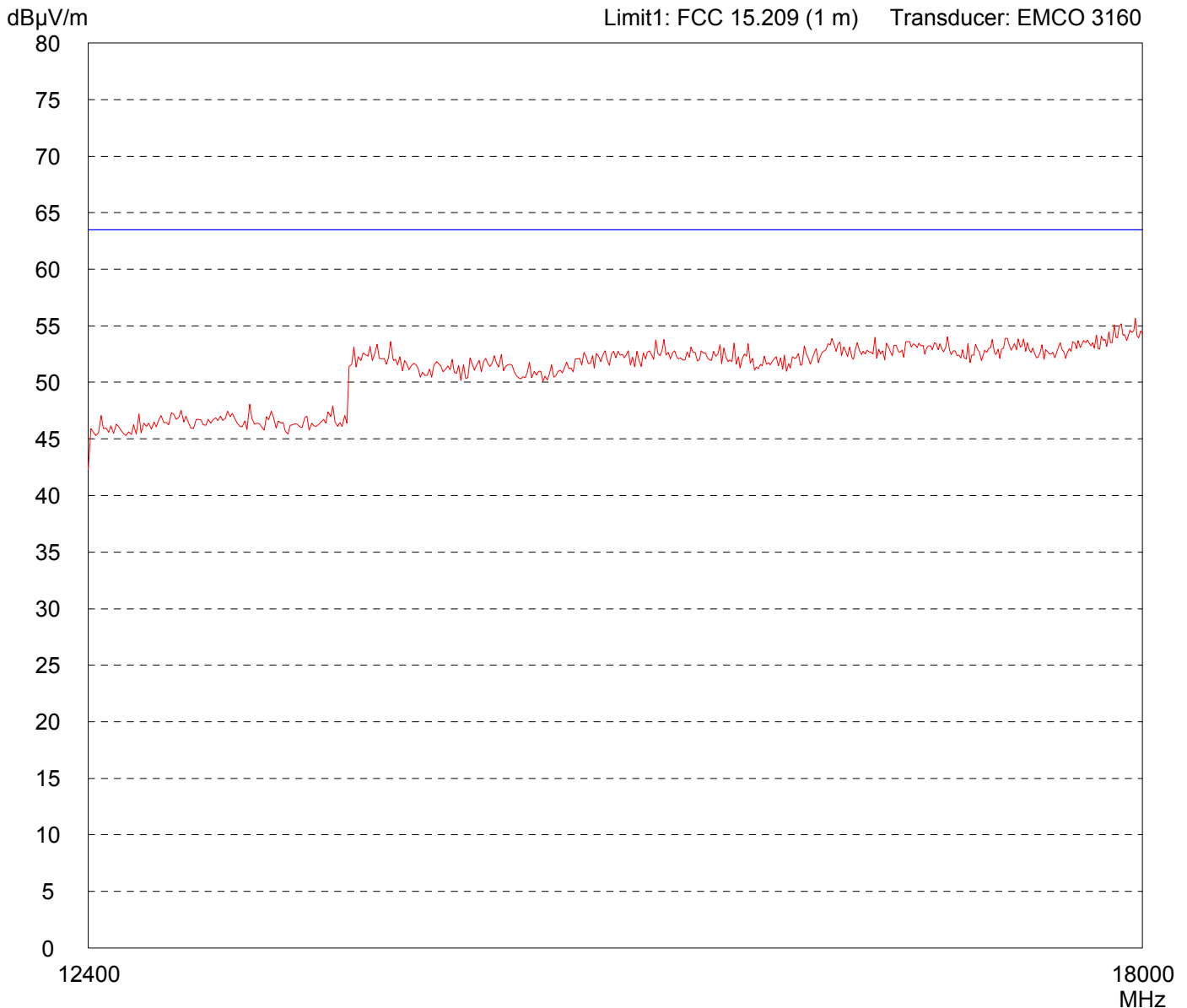


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: by hand	File name: default.emi

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

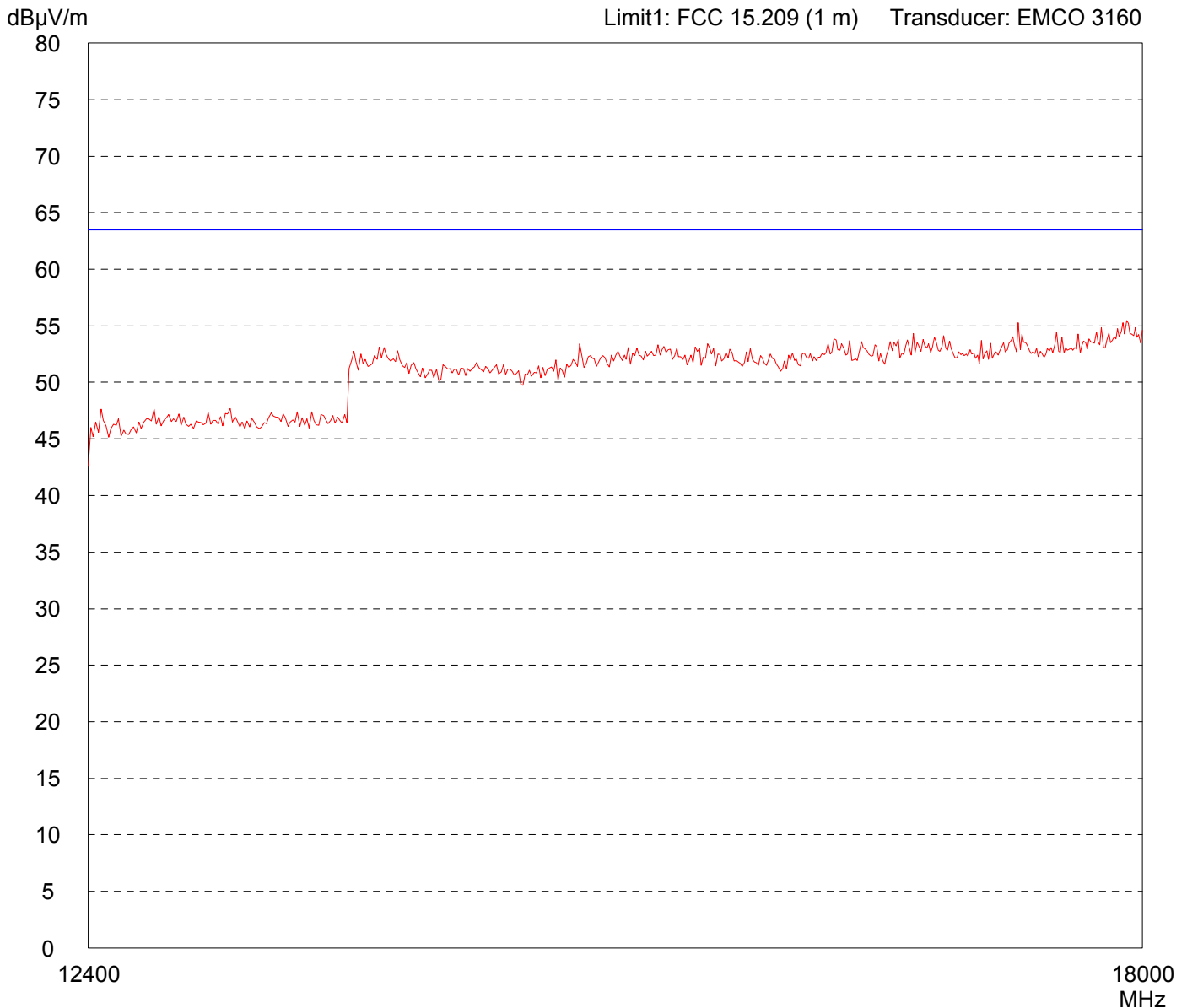


Result: Limit kept	Project file: 56109-71011-2
------------------------------	---------------------------------------

Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-71011-2
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Spurious emissions according to FCC Rules

Model:
ZB2430-D

Serial No.:
Unit A

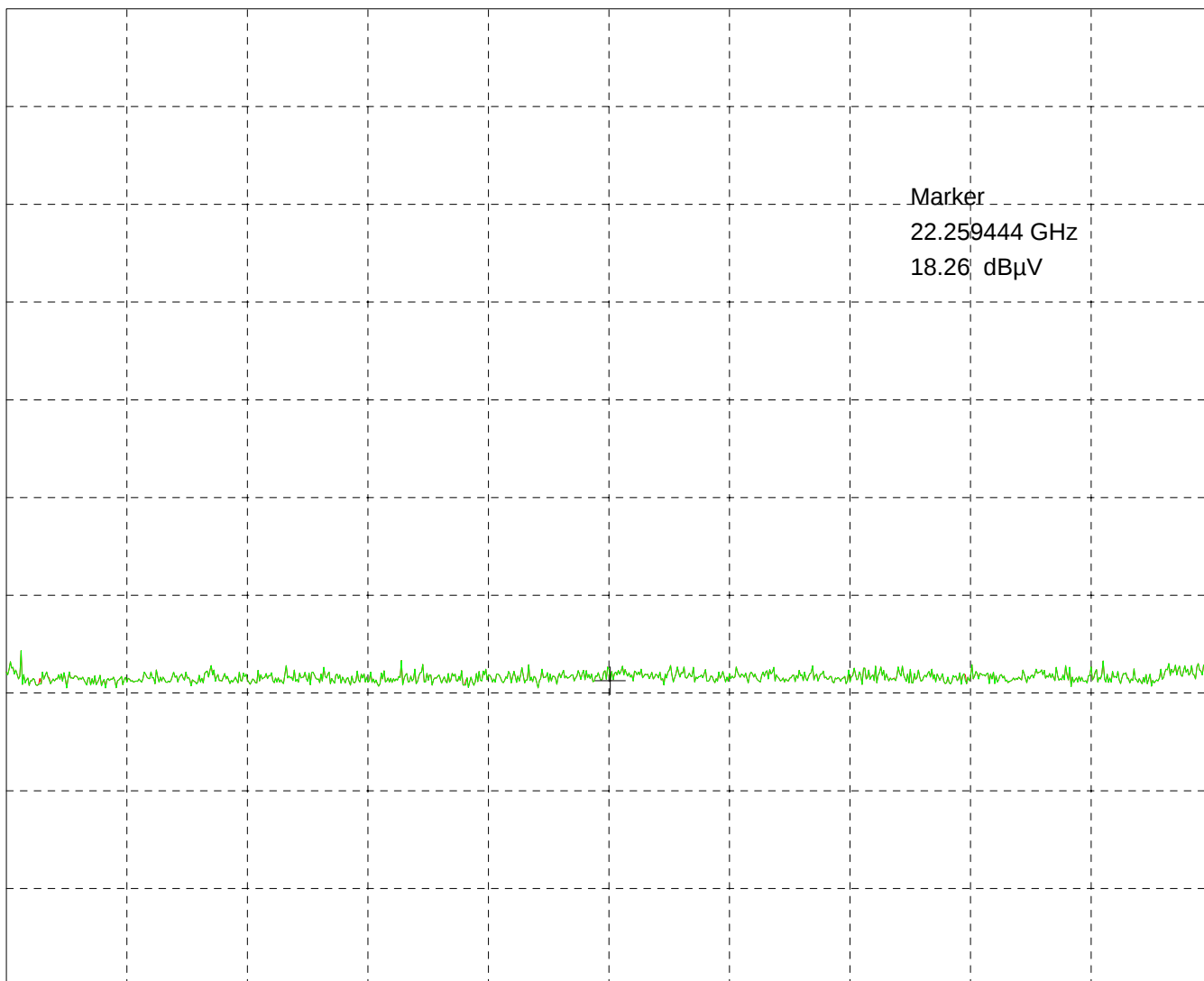
Applicant:
AEROCOMM, Inc.

Mode:
- TX at RF Channel 8 (2440 MHz)

- Antenna: Nearson 5 dBi

Ref.Level 87 dB μ V
10 dB/Div.

ATT 0 dB



Start 18.000 GHz
RBW 100 kHz

VBW 100 kHz

Stop 26.500 GHz
SWP 2.60 s

Tested by:
Johann Roidt

Date:
11 Nov 2007

Project-No.:
56109-071011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
11/20/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at Channel 15 (2475 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
11/20/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at Channel 15 (2475 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 11/20/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

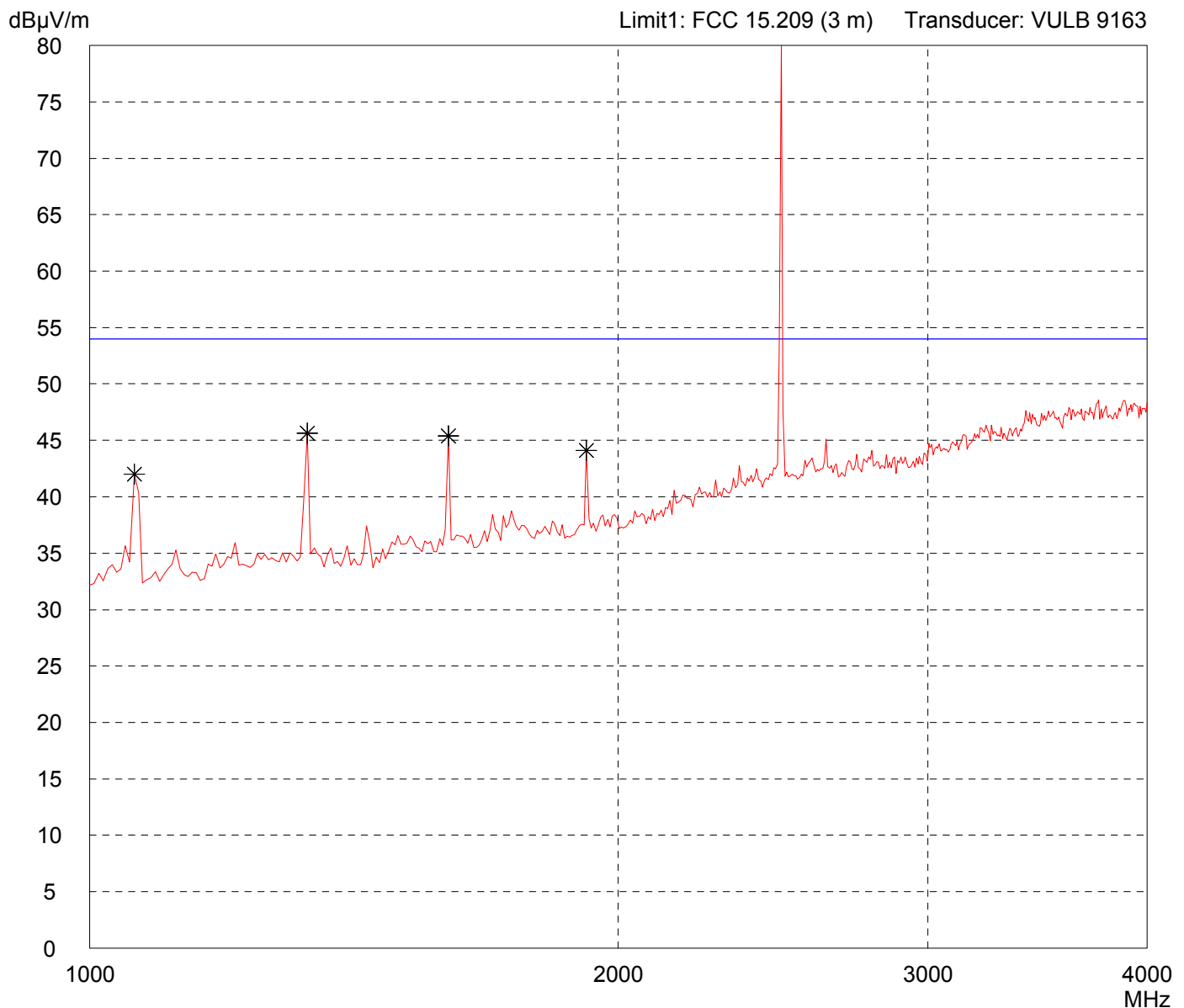
- TX at Channel 15 (2475 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

Selected by hand



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/20/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

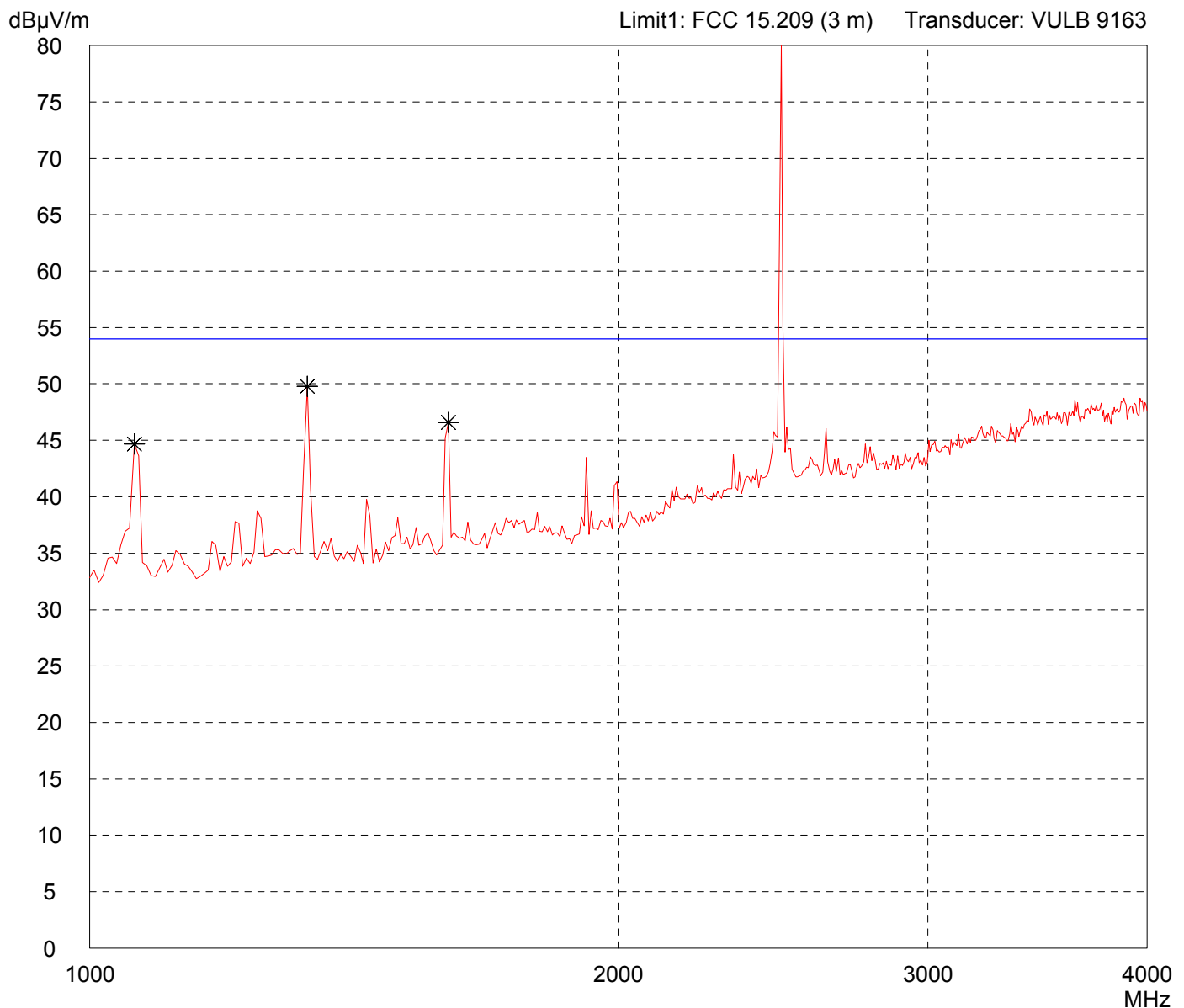
- TX at Channel 15 (2475 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

Selected by hand



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit A

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Horizontal Polarization

Date of test:
11/21/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at Channel 15 (2475 MHz)

- Antenna Nearson 5 dBi

Detector:
Peak

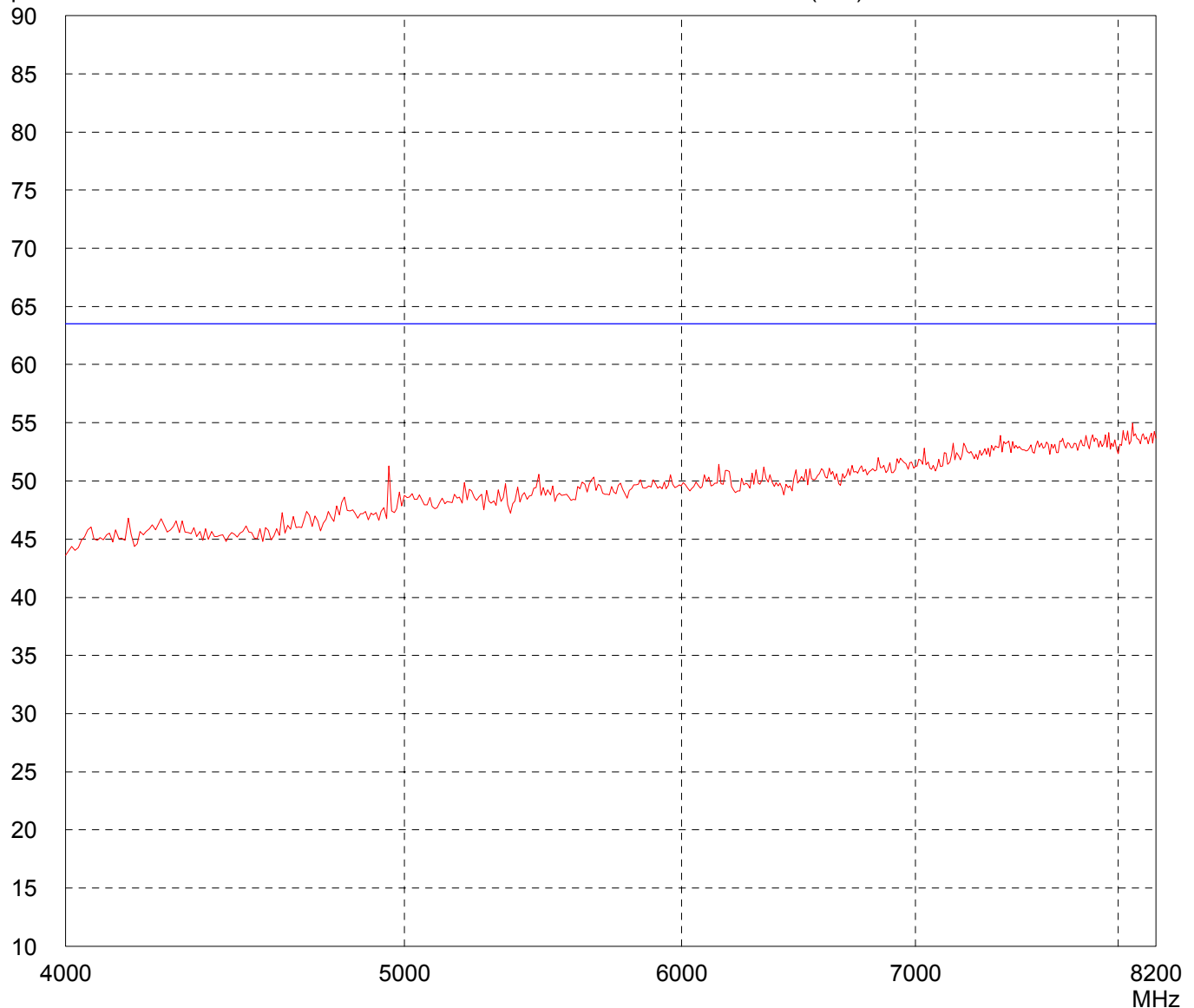
List of values:

Selected by hand

dB μ V/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit A

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Vertical Polarization

Date of test:
11/21/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at Channel 15 (2475 MHz)

- Antenna Nearson 5 dBi

Detector:
Peak

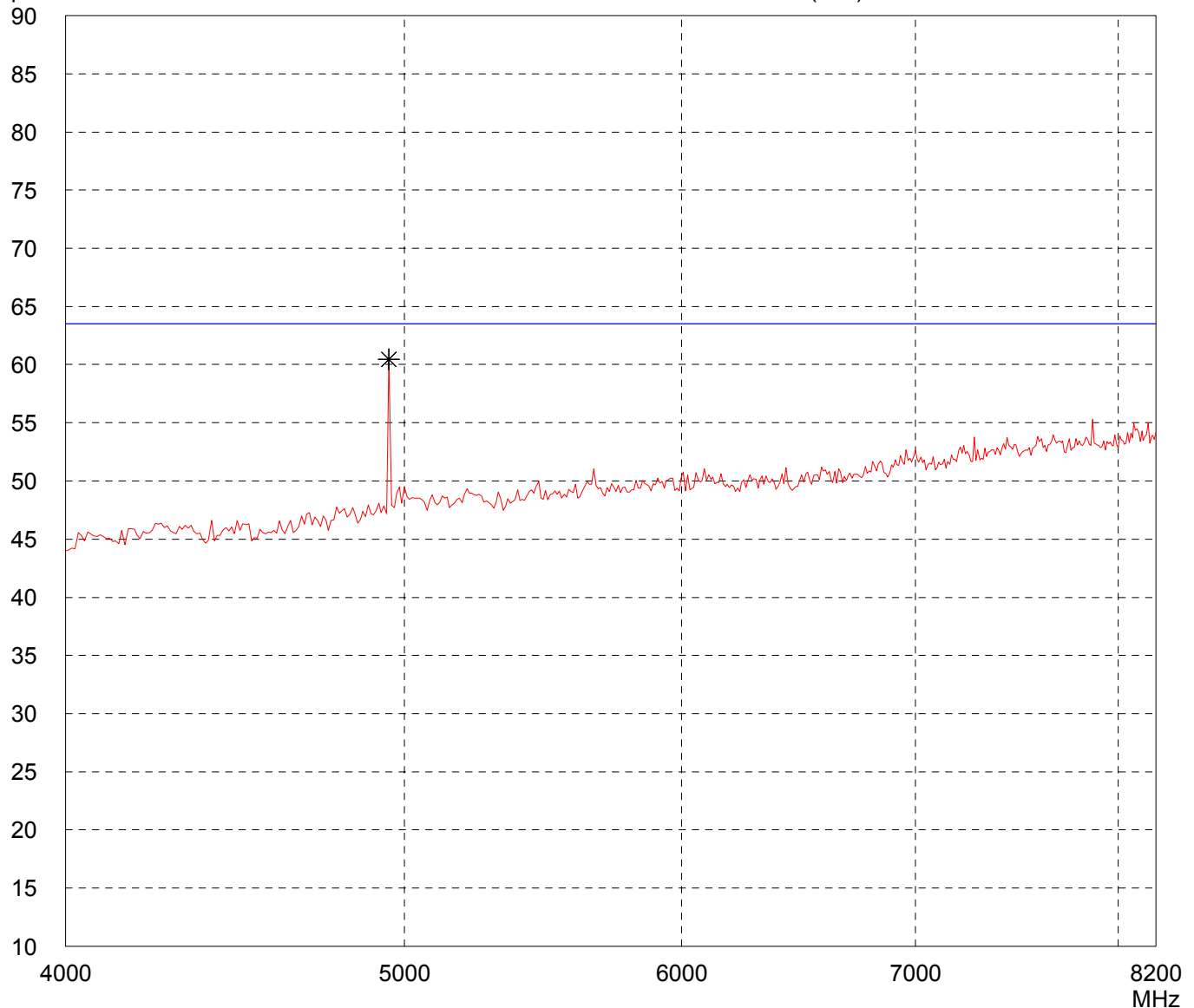
List of values:

Selected by hand

dB μ V/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



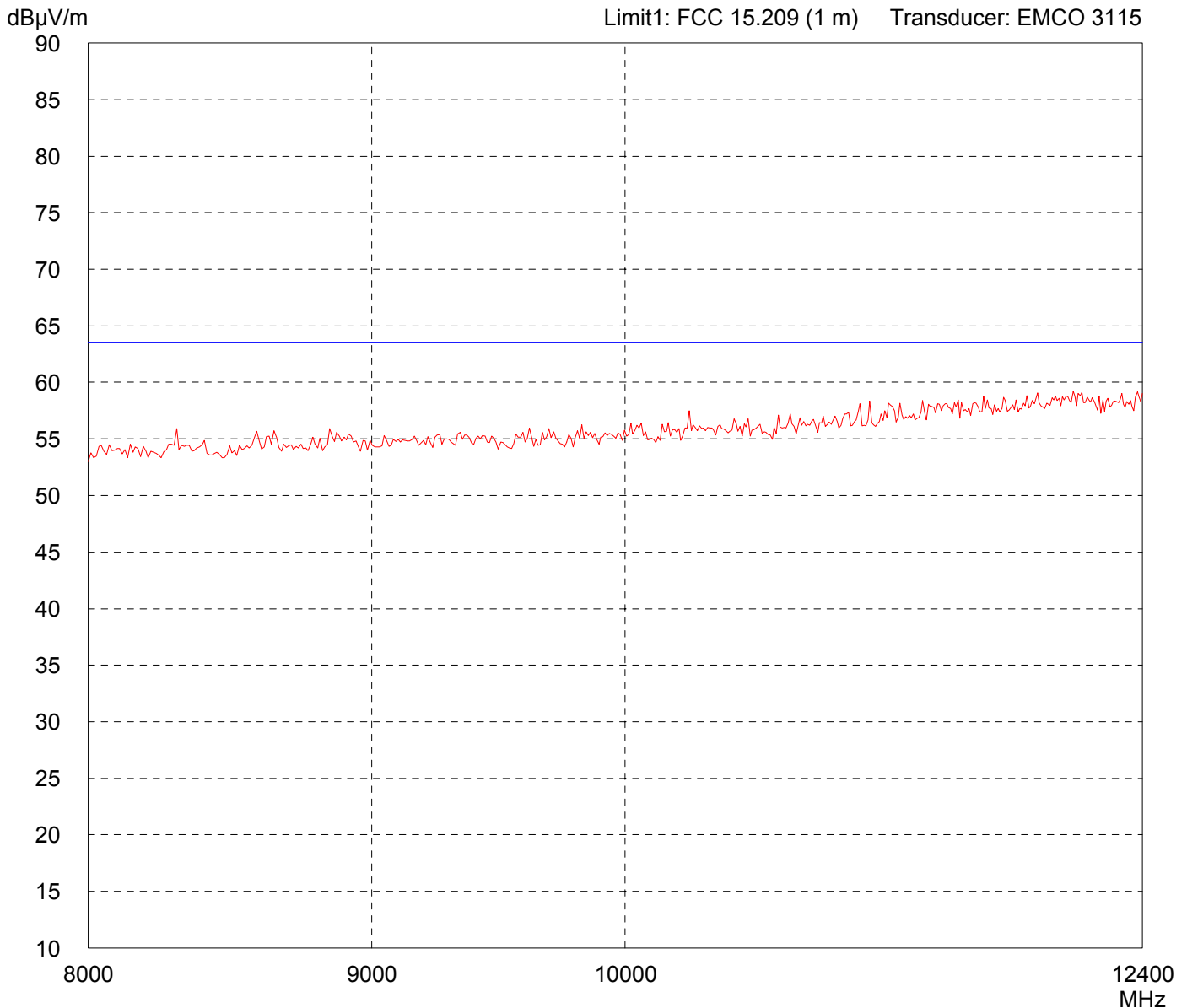
Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 15 (2475 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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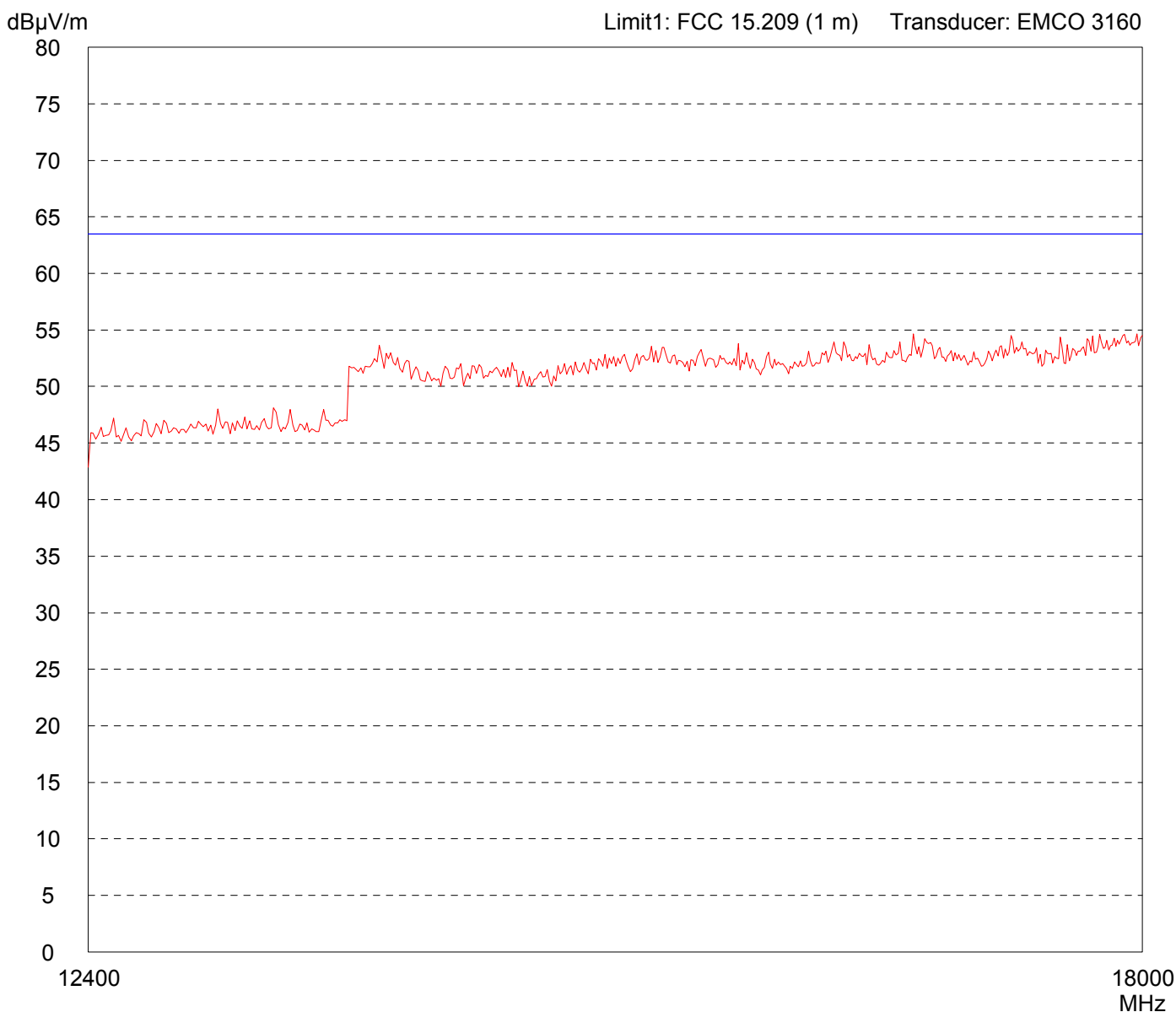


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 15 (2475 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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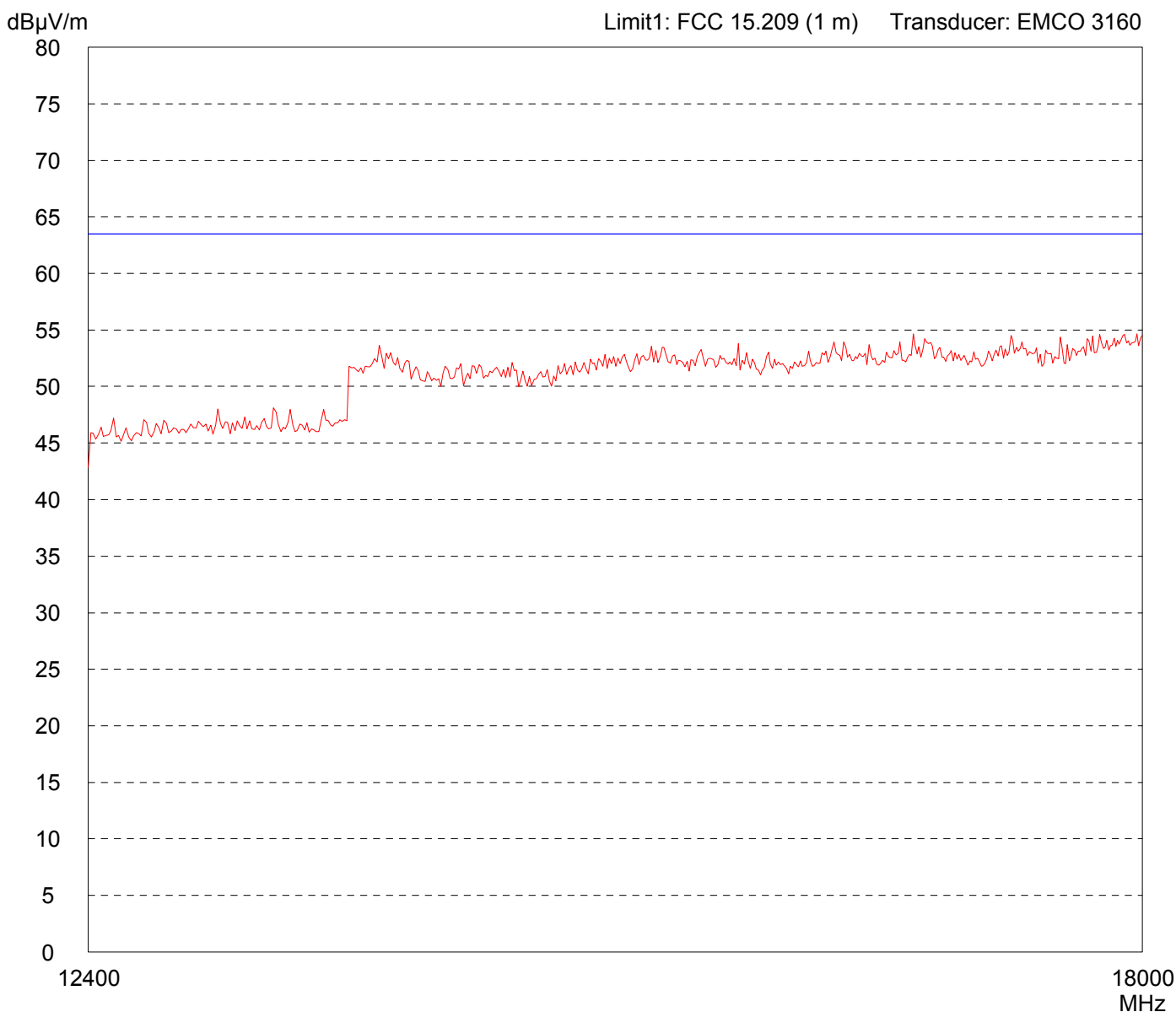


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 15 (2475 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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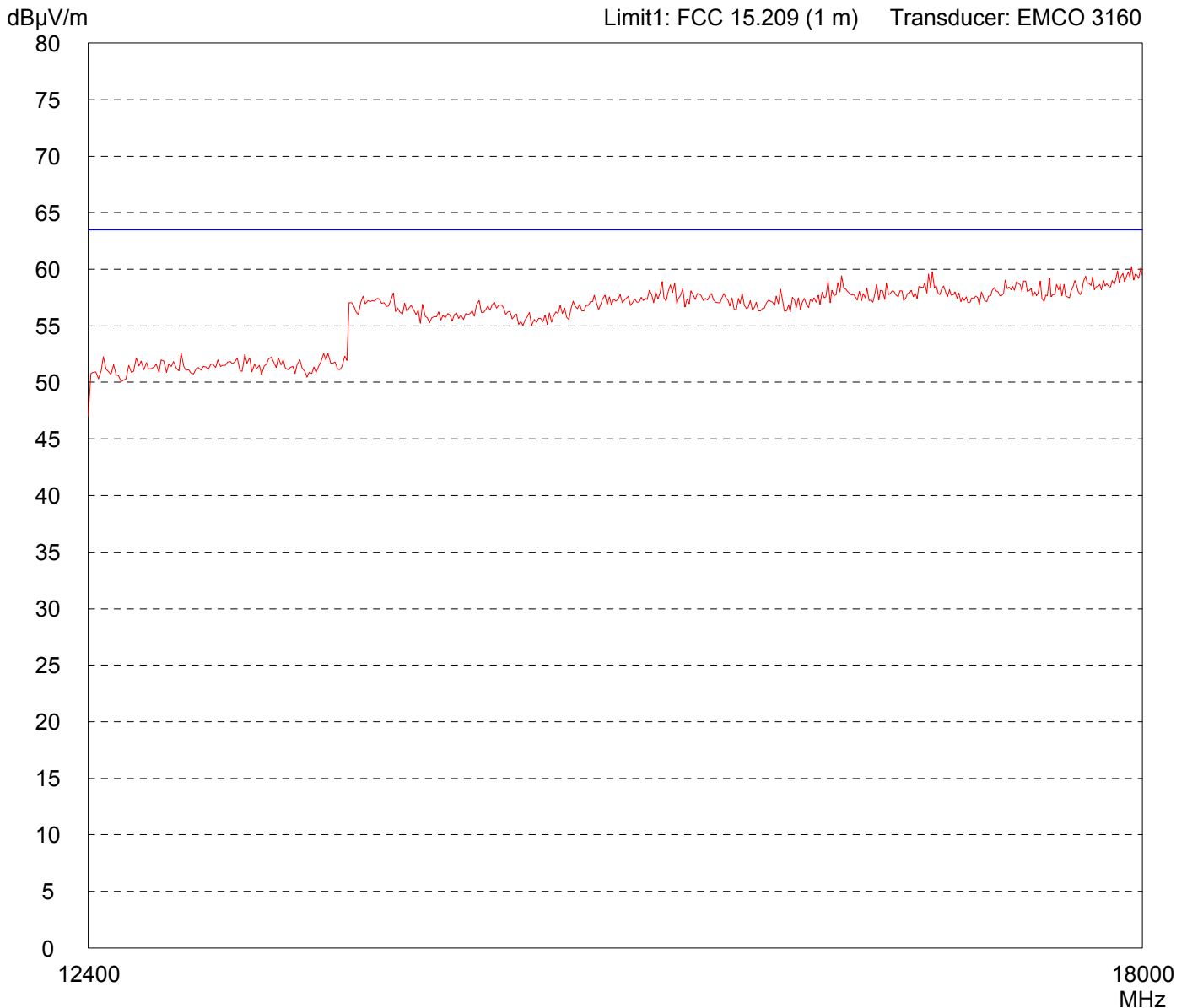


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at Channel 15 (2475 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-71011-2
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Spurious emissions according to FCC Rules

Model:
ZB2430-D

Serial No.:
Unit A

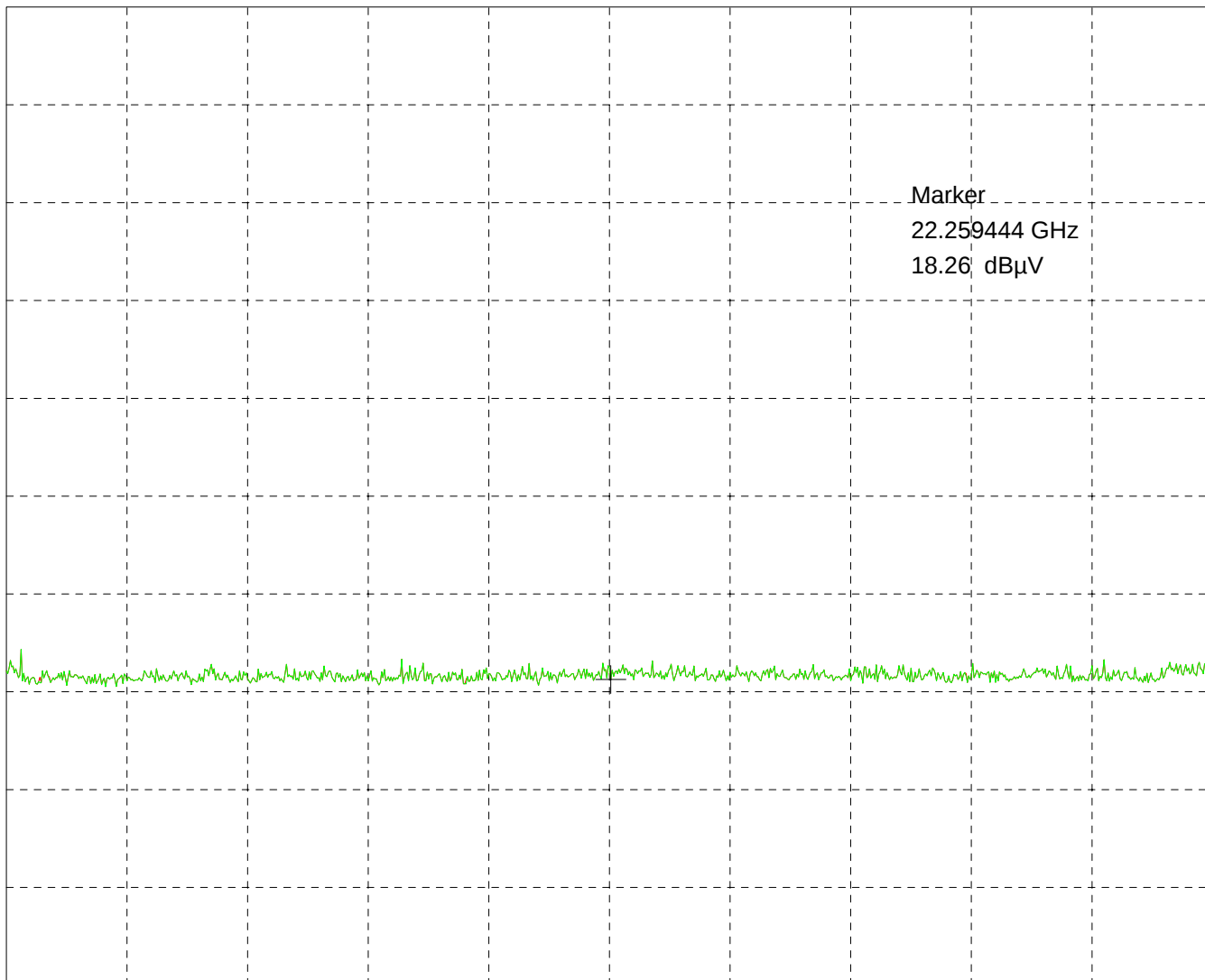
Applicant:
AEROCOMM, Inc.

Mode:
- TX at RF Channel 15 (2475 MHz)

- Antenna: Nearson 5 dBi

Ref.Level 87 dB μ V
10 dB/Div.

ATT 0 dB



Start 18.000 GHz
RBW 100 kHz

VBW 100 kHz

Stop 26.500 GHz
SWP 2.60 s

Tested by:
Johann Roidt

Date:
11 Nov 2007

Project-No.:
56109-071011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
11/20/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- RX at Channel 8 (2440 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

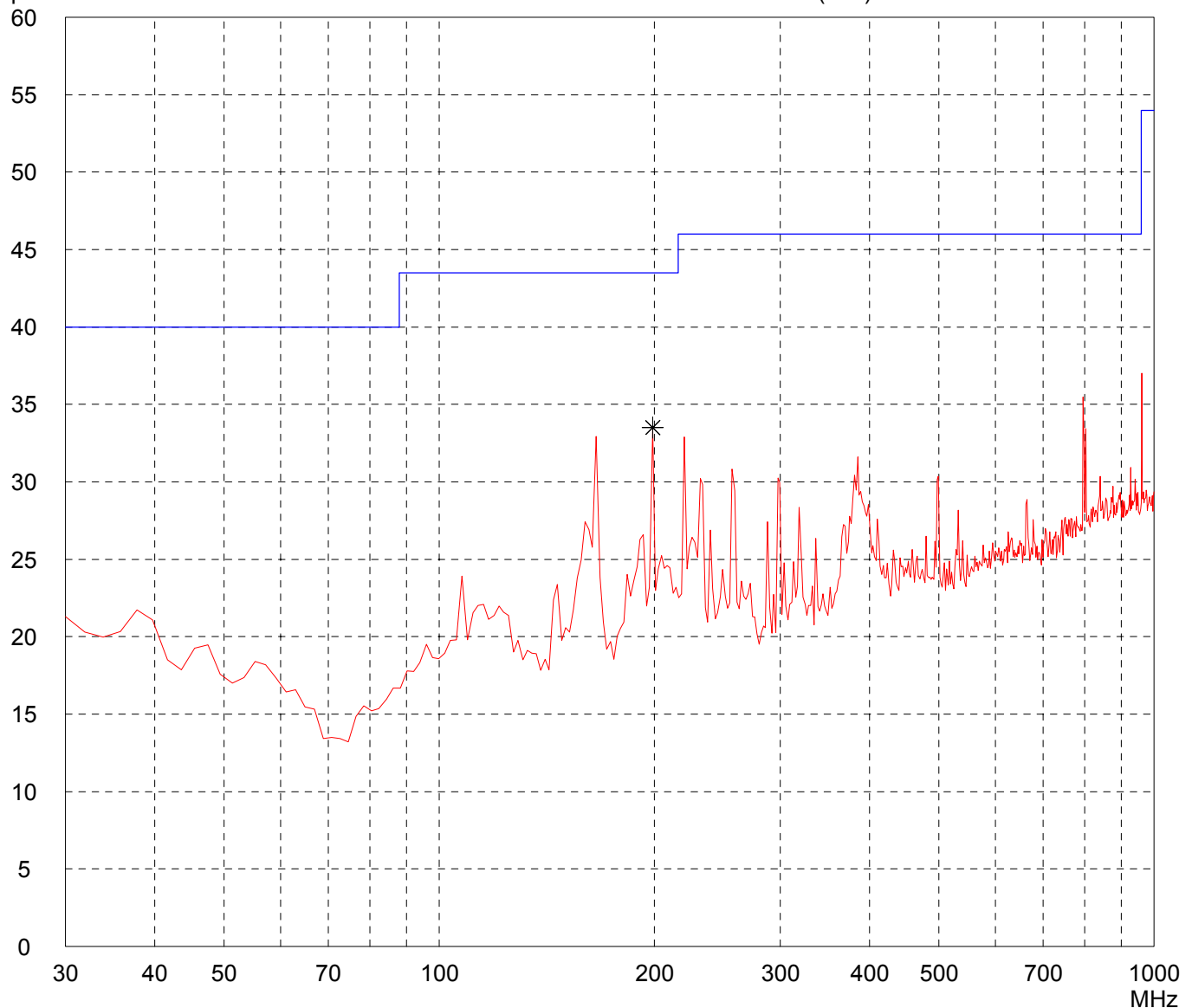
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



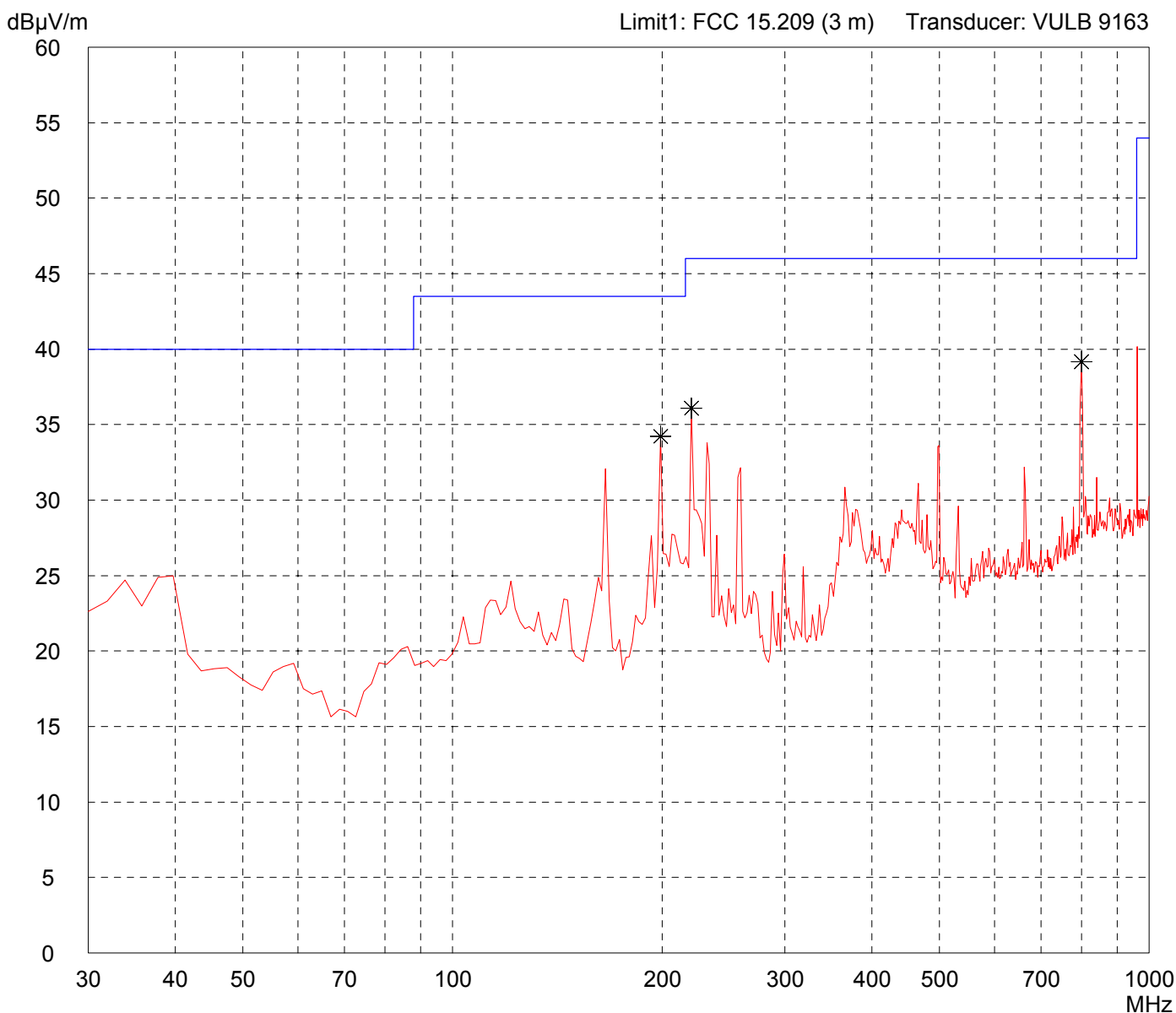
Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - RX at Channel 8 (2440 MHz) - Antenna Nearson S151FC-L-(132)PX-2450S
Serial no.: Sample "A"	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 11/20/2007	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: 56109-71011-2
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Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 11/20/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

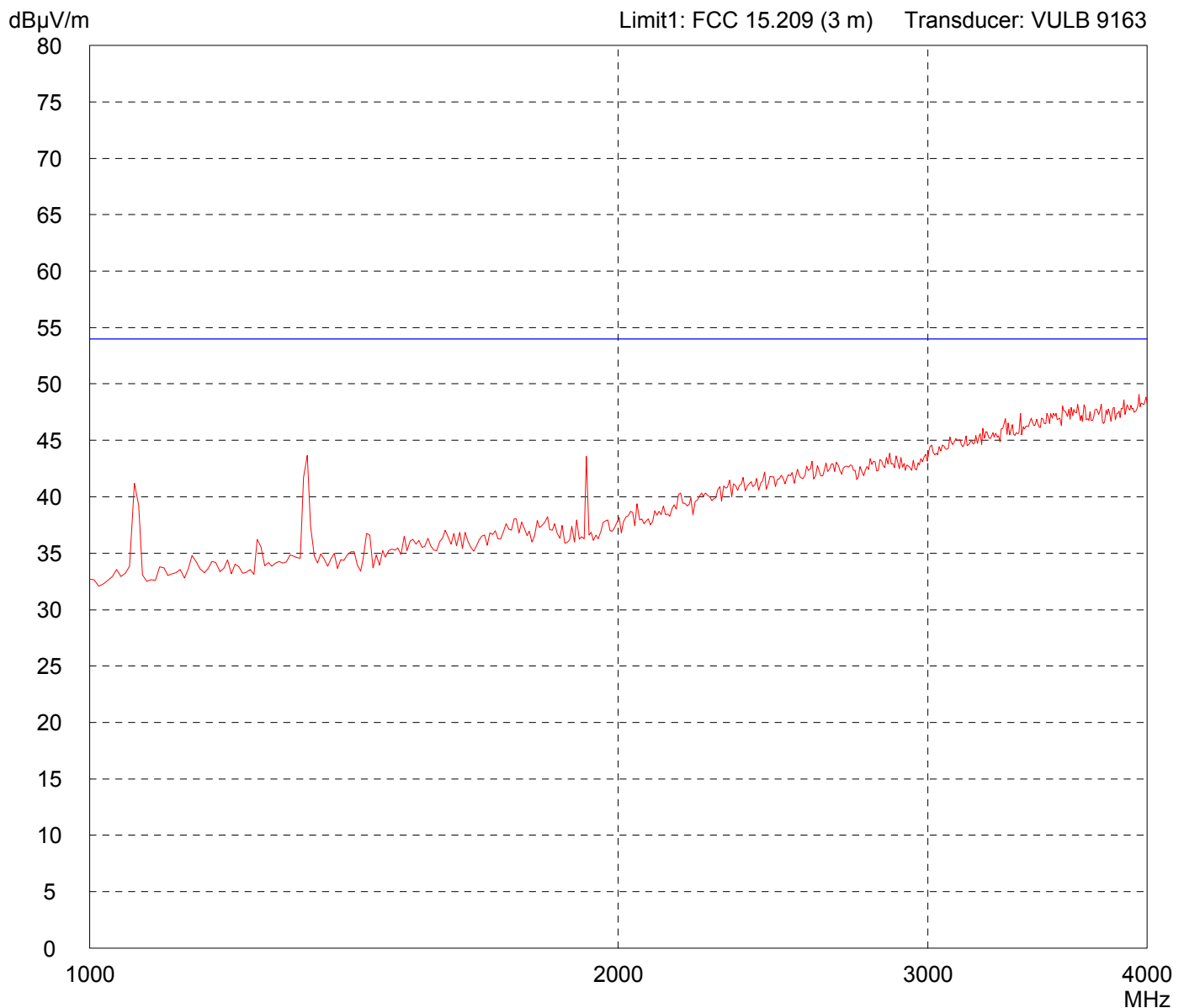
- RX at Channel 8 (2440 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

Detector:
Peak

List of values:

Selected by hand



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample "A"

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/20/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

- RX at Channel 8 (2440 MHz)

- Antenna Nearson S151FC-L-(132)PX-2450S

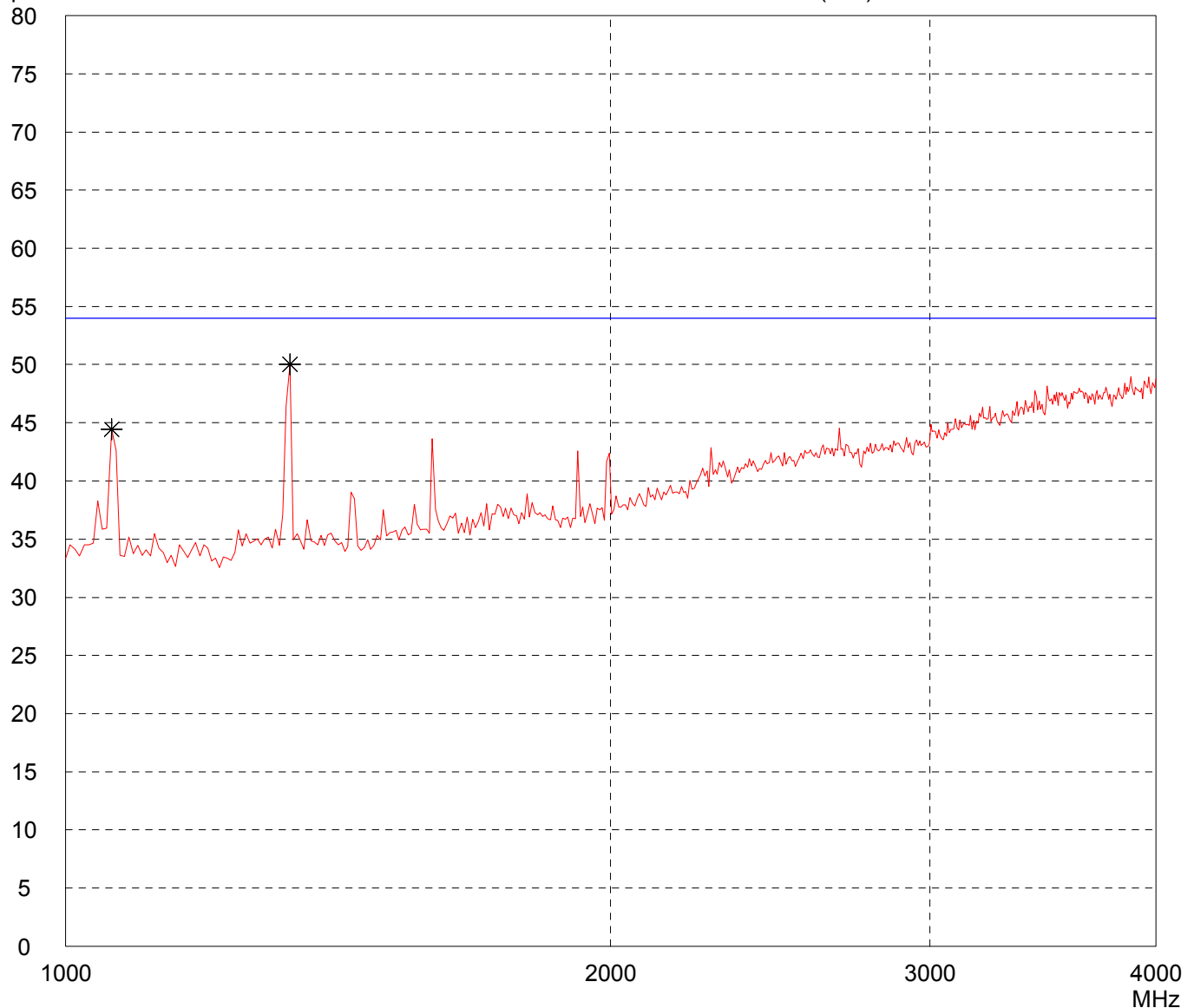
Detector:
Peak

List of values:

Selected by hand

dB μ V/m

Limit1: FCC 15.209 (3 m) Transducer: VULB 9163



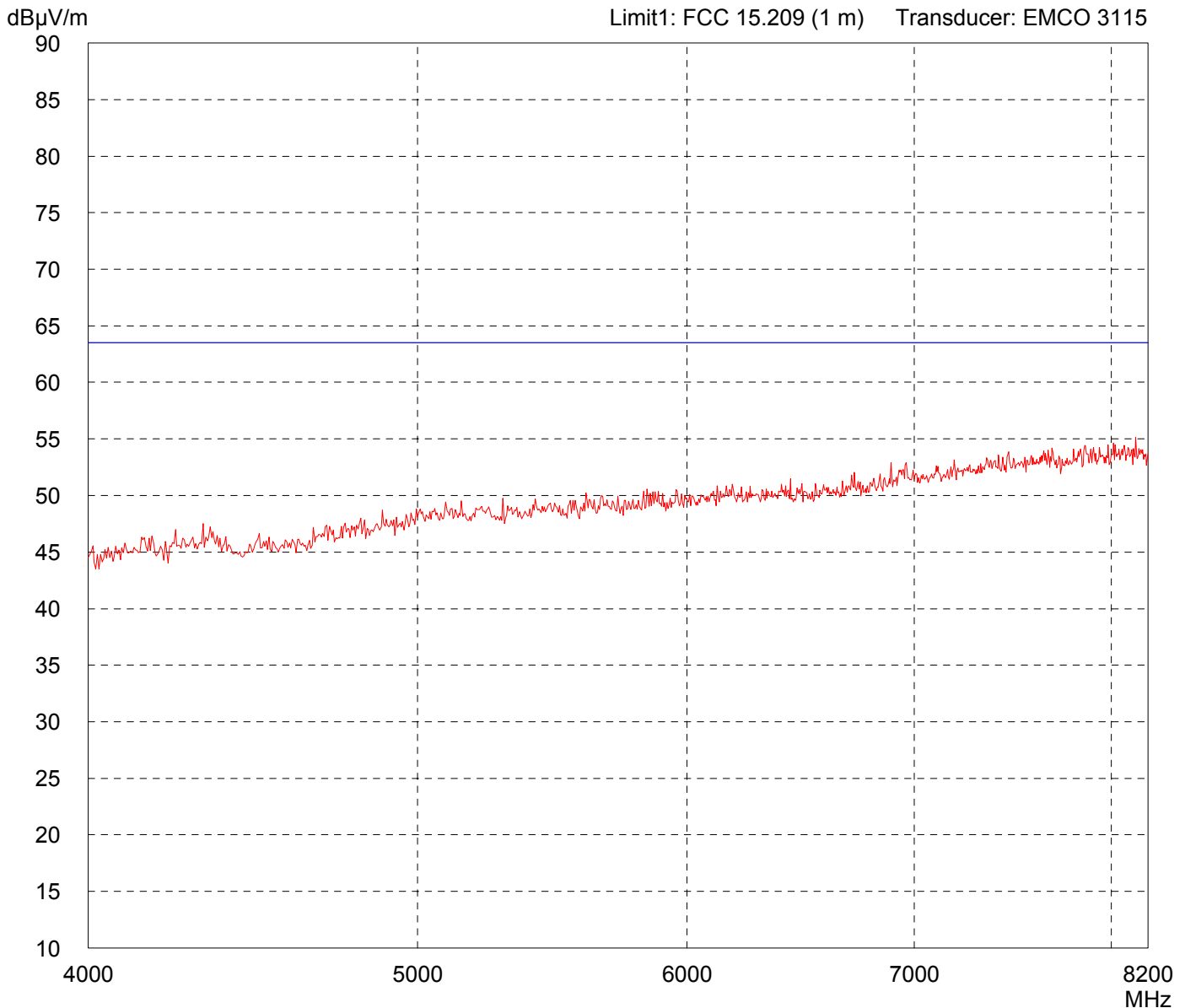
Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - RX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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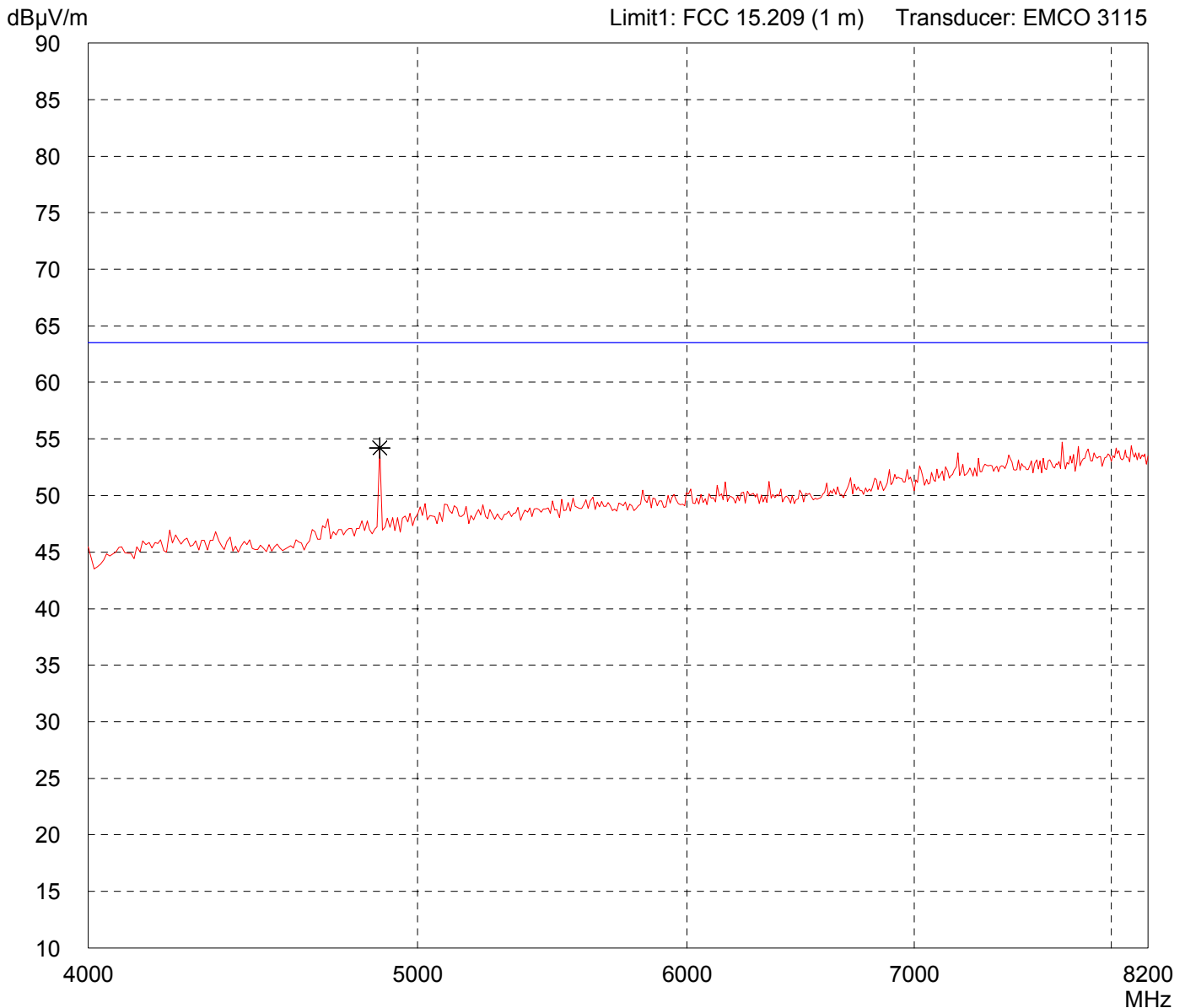


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 4 GHz - 8.2 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - RX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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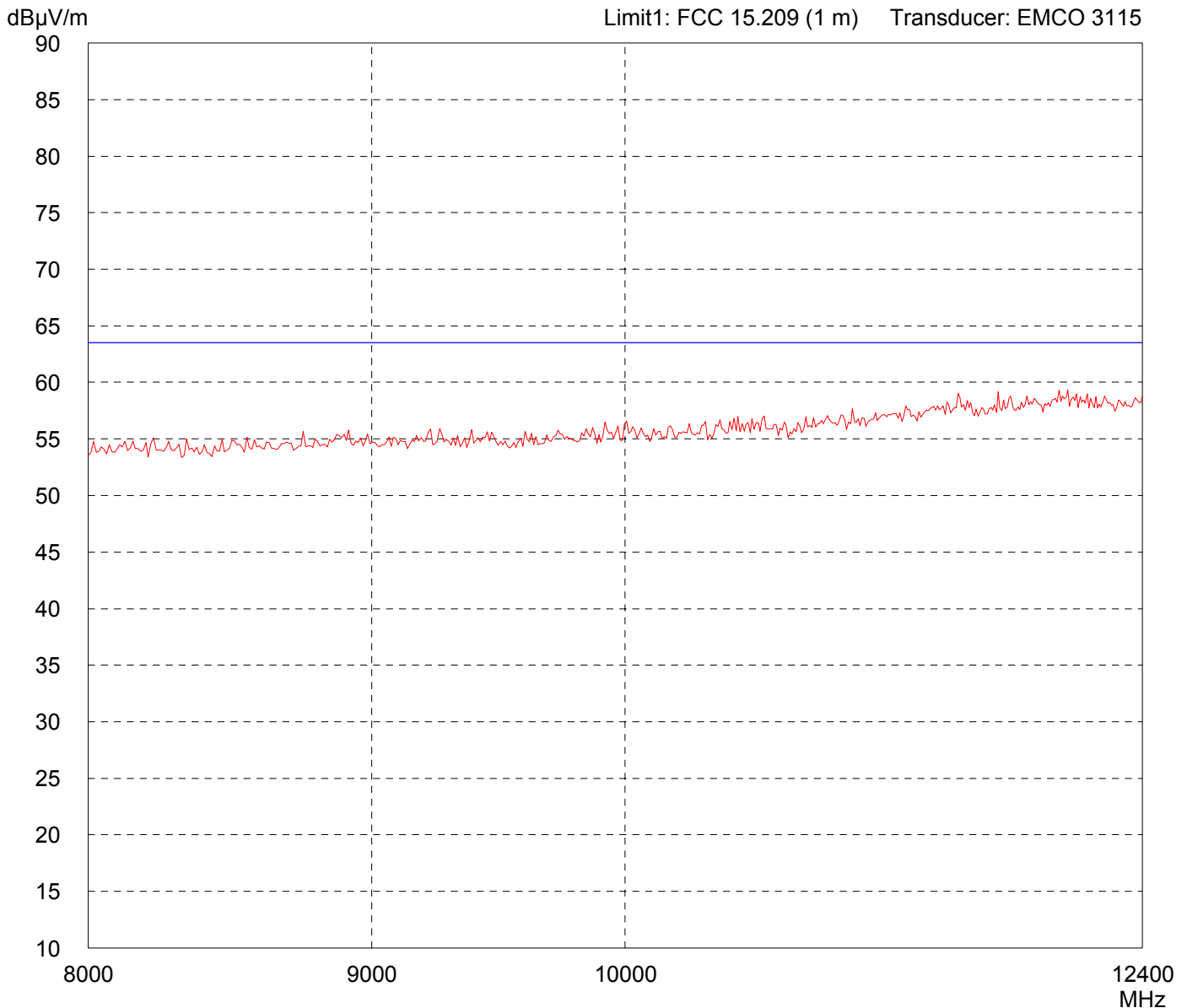


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - RX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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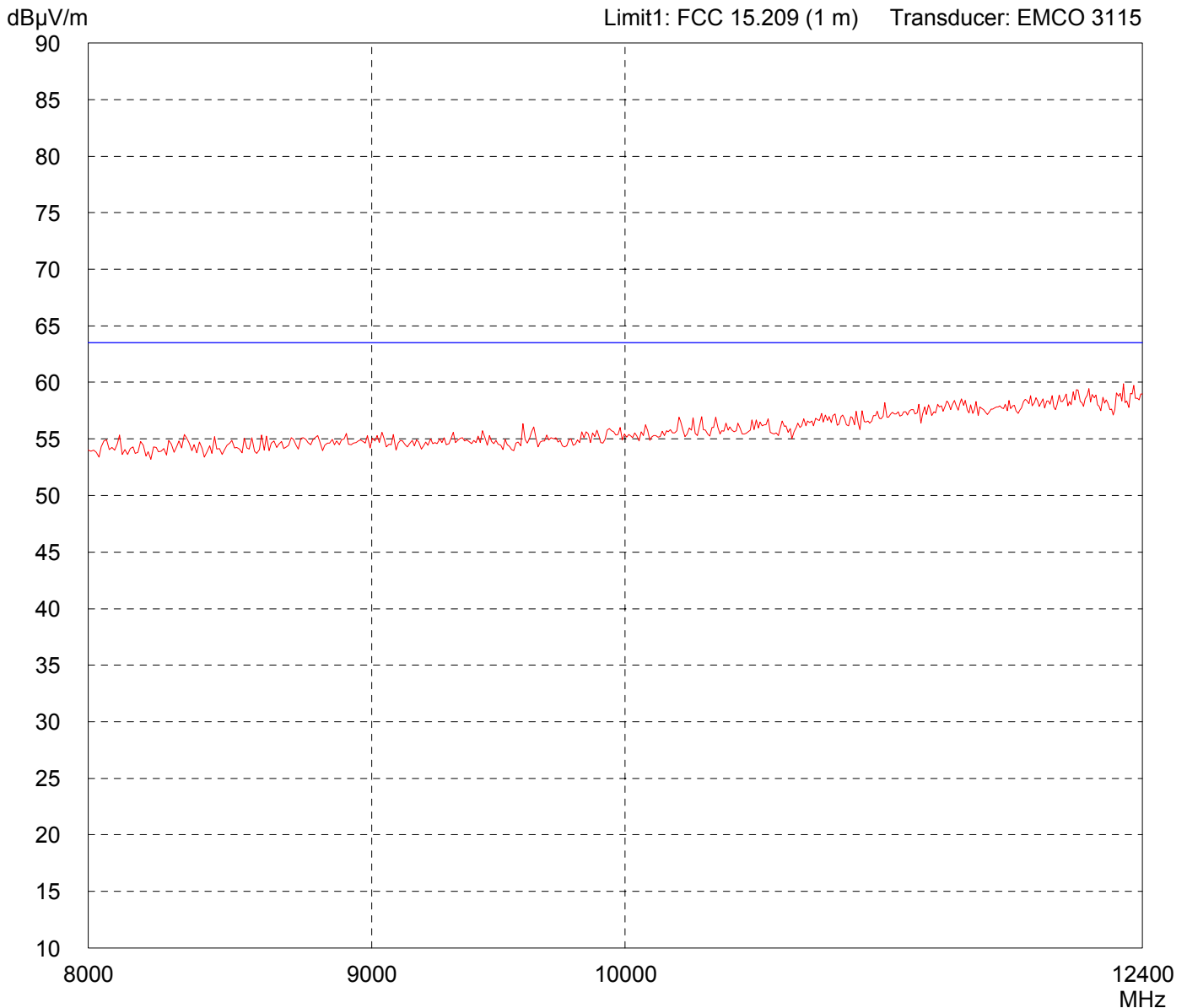


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - RX at Channel 8 (2440 MHz) - Antenna Nearson 5 dBi
Serial no.: Unit A	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 11/21/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

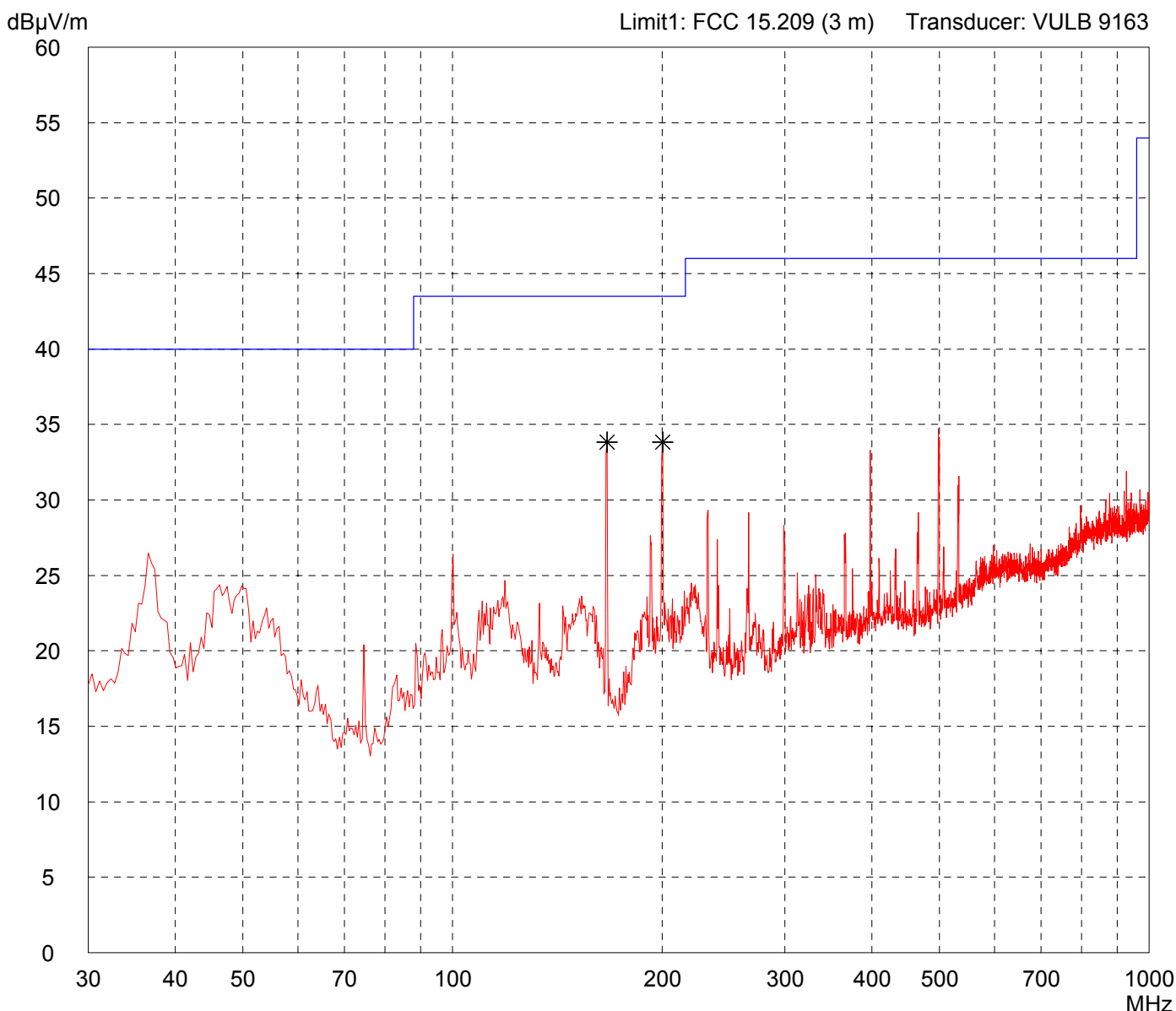
Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D Serial no.: Sample B (integrated antenna) Applicant: AEROCOMM, Inc. Test site: Fully anechoic room, cabin no. 2 Tested on: Test distance 3 metres Horizontal Polarization Date of test: 11/02/2007 Operator: J. Roidt Test performed: automatically File name: default.emi	Comment: - TX Mode at Channel 1 (2405 MHz, CW) - Antenna: Centurion WIC2450-A
Detector: Peak	List of values: 10 dB Margin 50 Subranges



Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample B (integrated antenna)

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

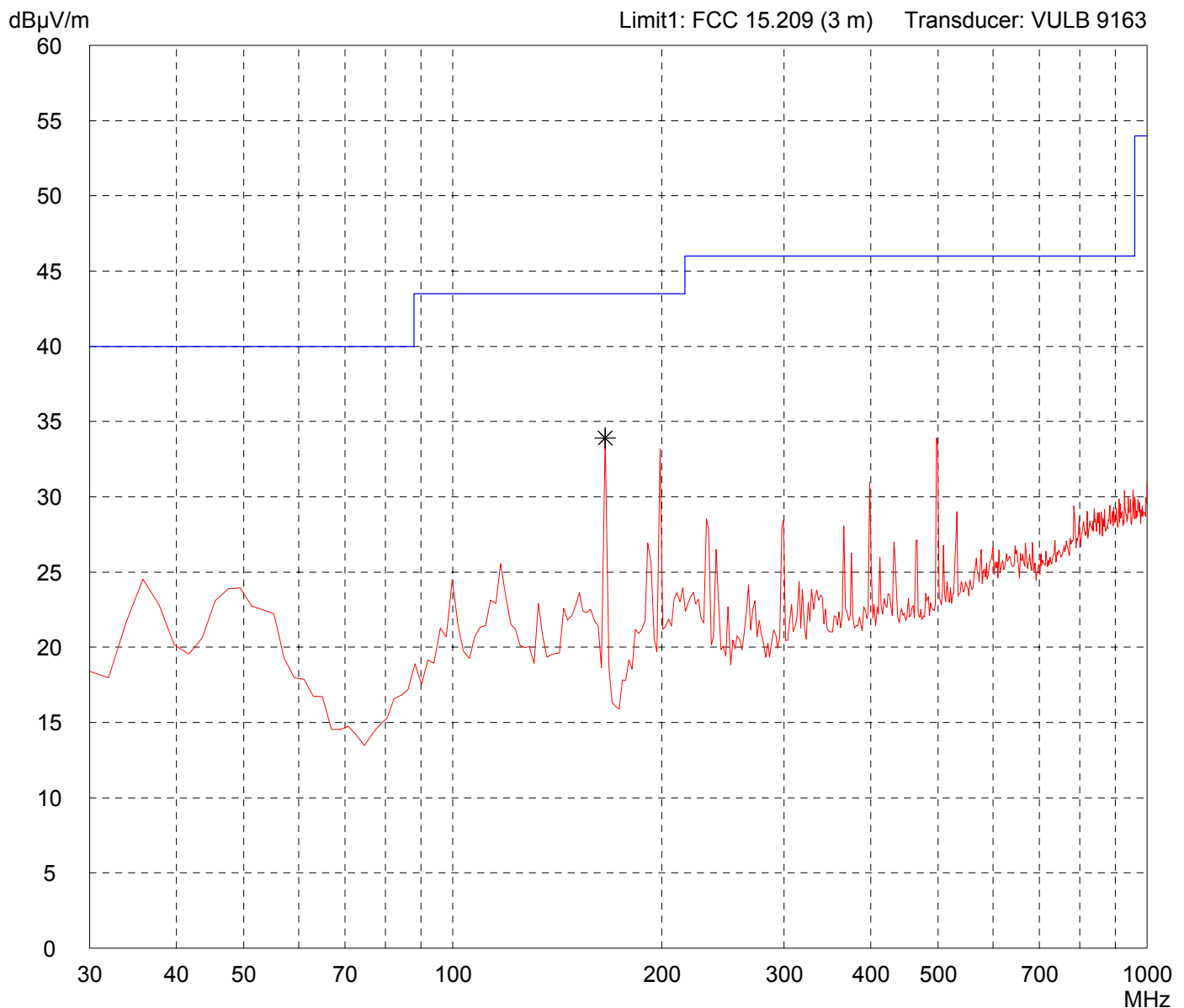
Date of test: 11/02/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:
- TX Mode at Channel 1 (2405 MHz, CW)
- Antenna: Centurion WIC2450-A

Detector:
Peak

List of values:
10 dB Margin 50 Subranges

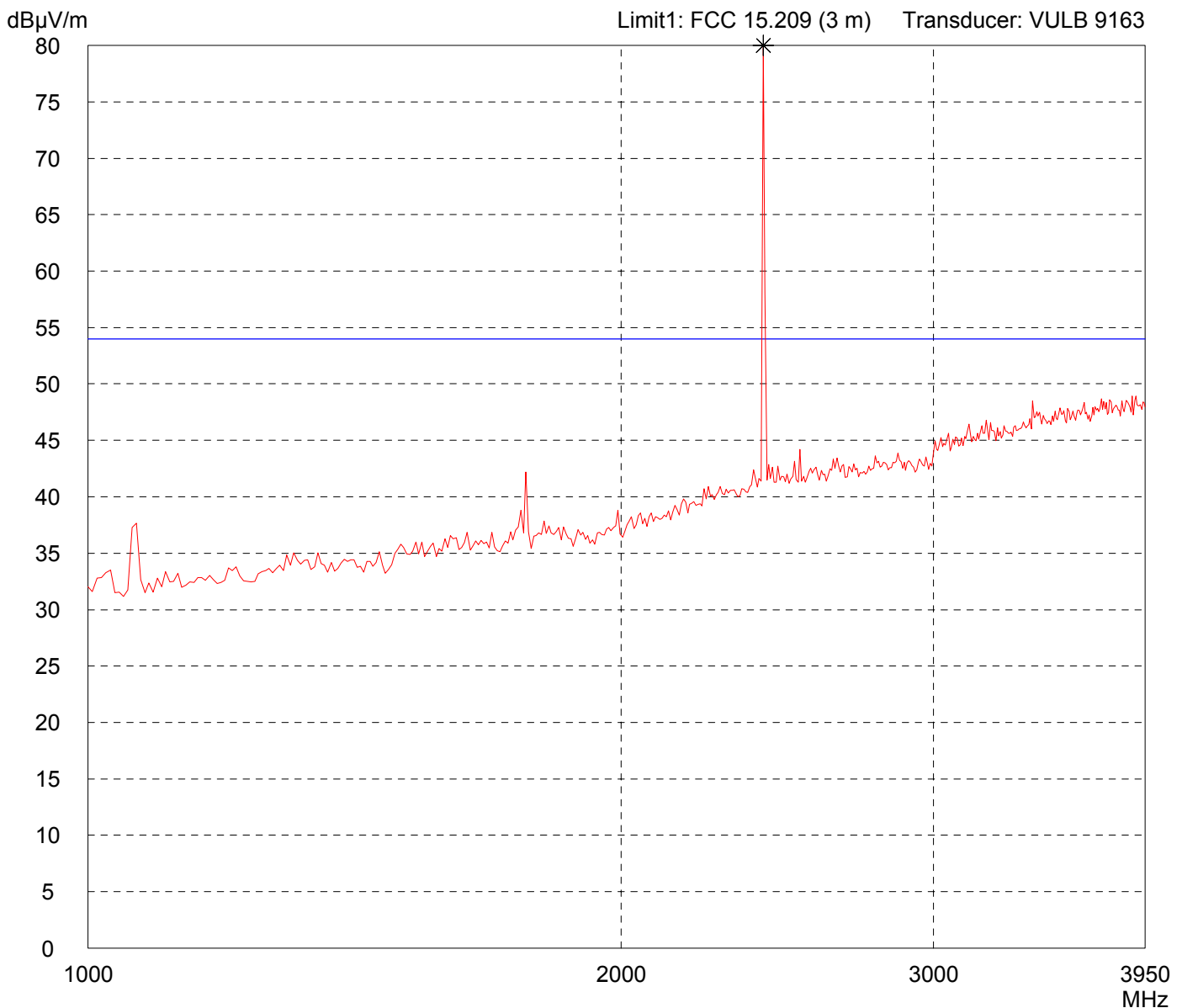


Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 3.95 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D		Comment: - TX Mode at Channel 1 (2405 MHz, CW) - Antenna: Centurion WIC2450-A
Serial no.: Sample B (integrated antenna)		
Applicant: AEROCOMM, Inc.		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 11/02/2007	Operator: J. Roidt	
Test performed: automatically	File name: default.emi	
Detector: Peak		List of values: Selected by hand

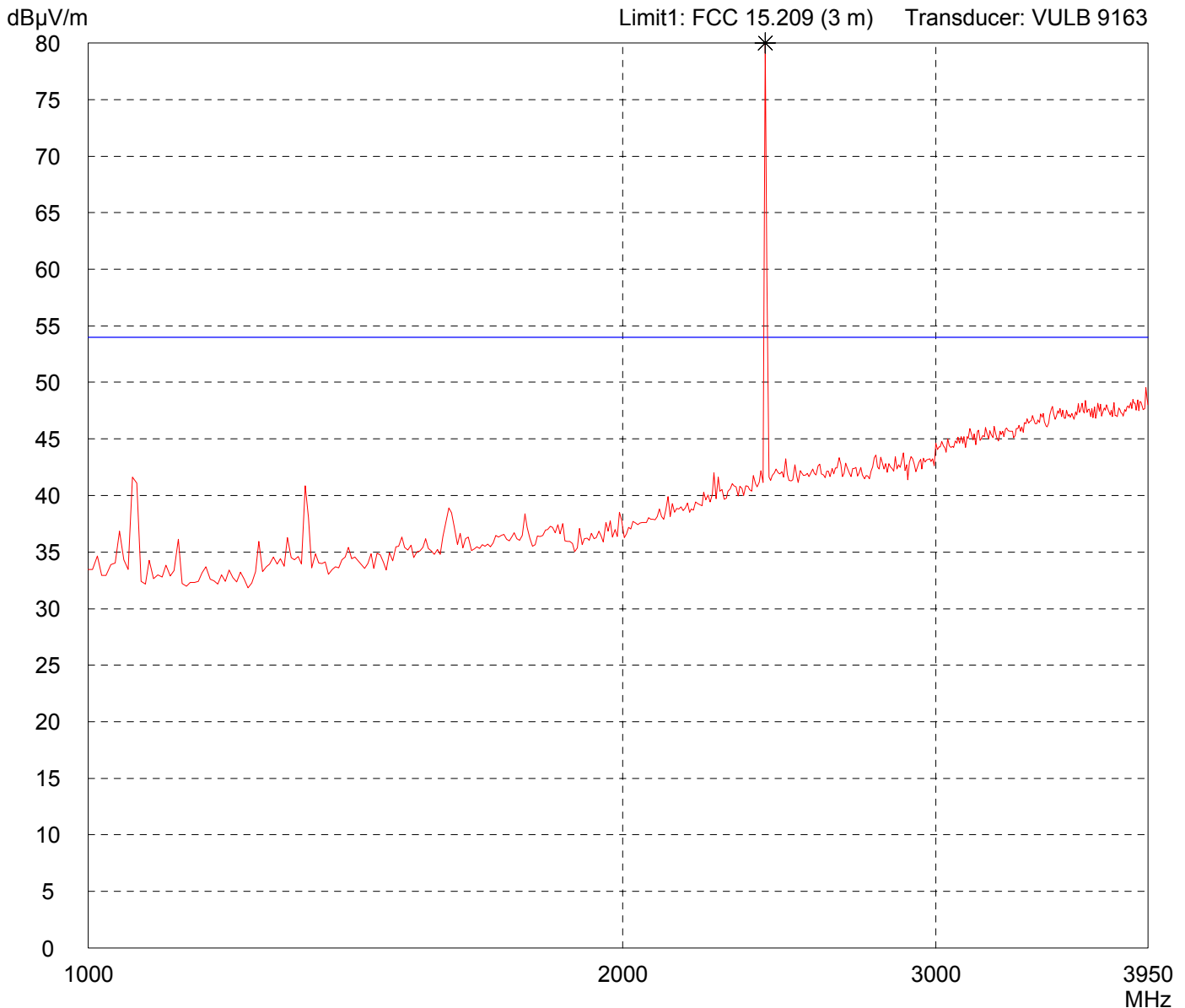


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 1 GHz - 3.95 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX Mode at Channel 1 (2405 MHz, CW) - Antenna: Centurion WIC2450-A
Serial no.: Sample B (integrated antenna)	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 11/02/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 4 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit B with Centurion 2 dBi

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Horizontal Polarization

Date of test:
19 Nov 2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at RF Channel 1 (2405 MHz)

Detector:
Peak

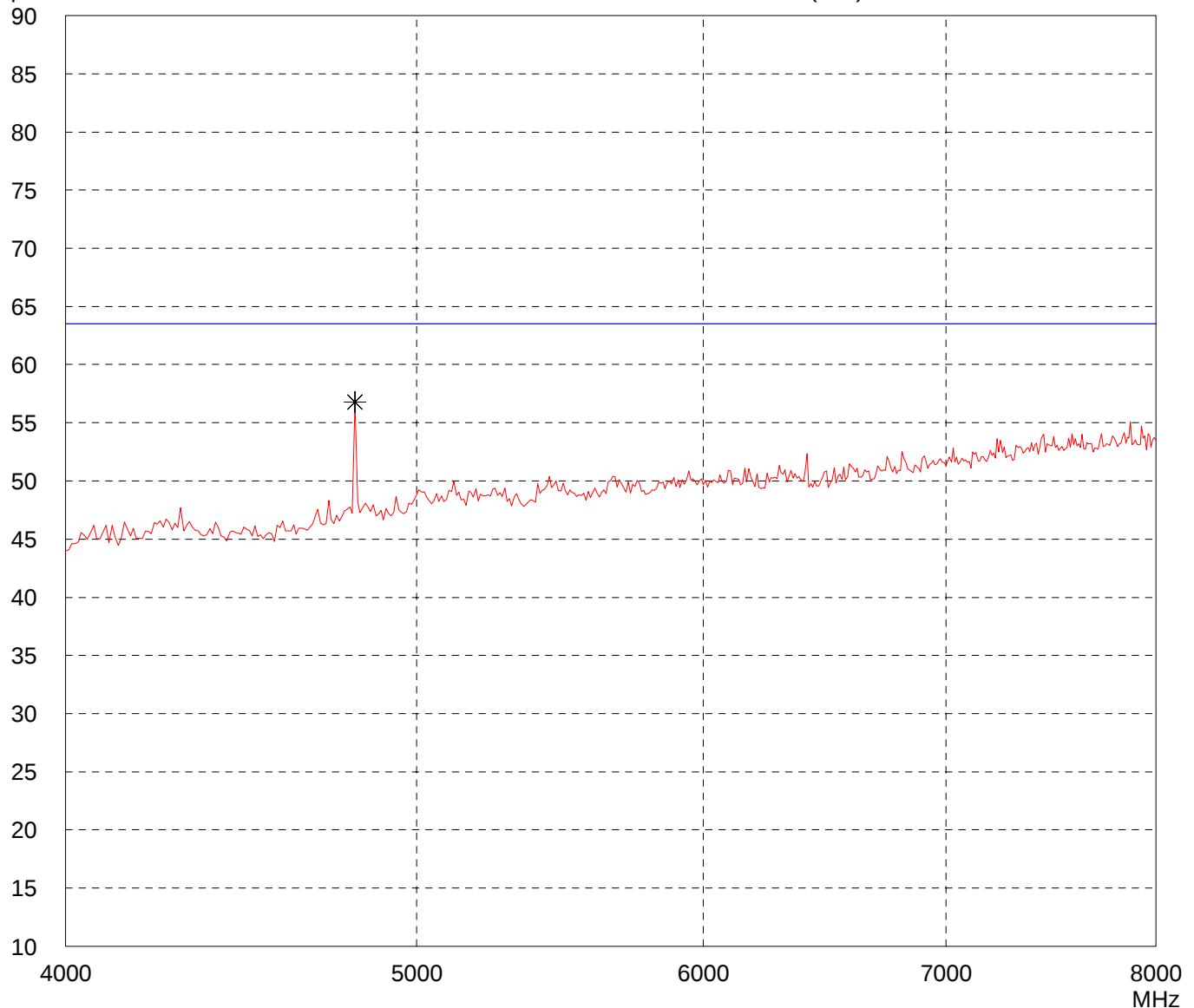
List of values:

Selected by hand

dBμV/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



Result:
Pass

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit B with Centurion 2 dBi

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Vertical Polarization

Date of test:
19 Nov 2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at RF Channel 1 (2405 MHz)

Detector:
Peak

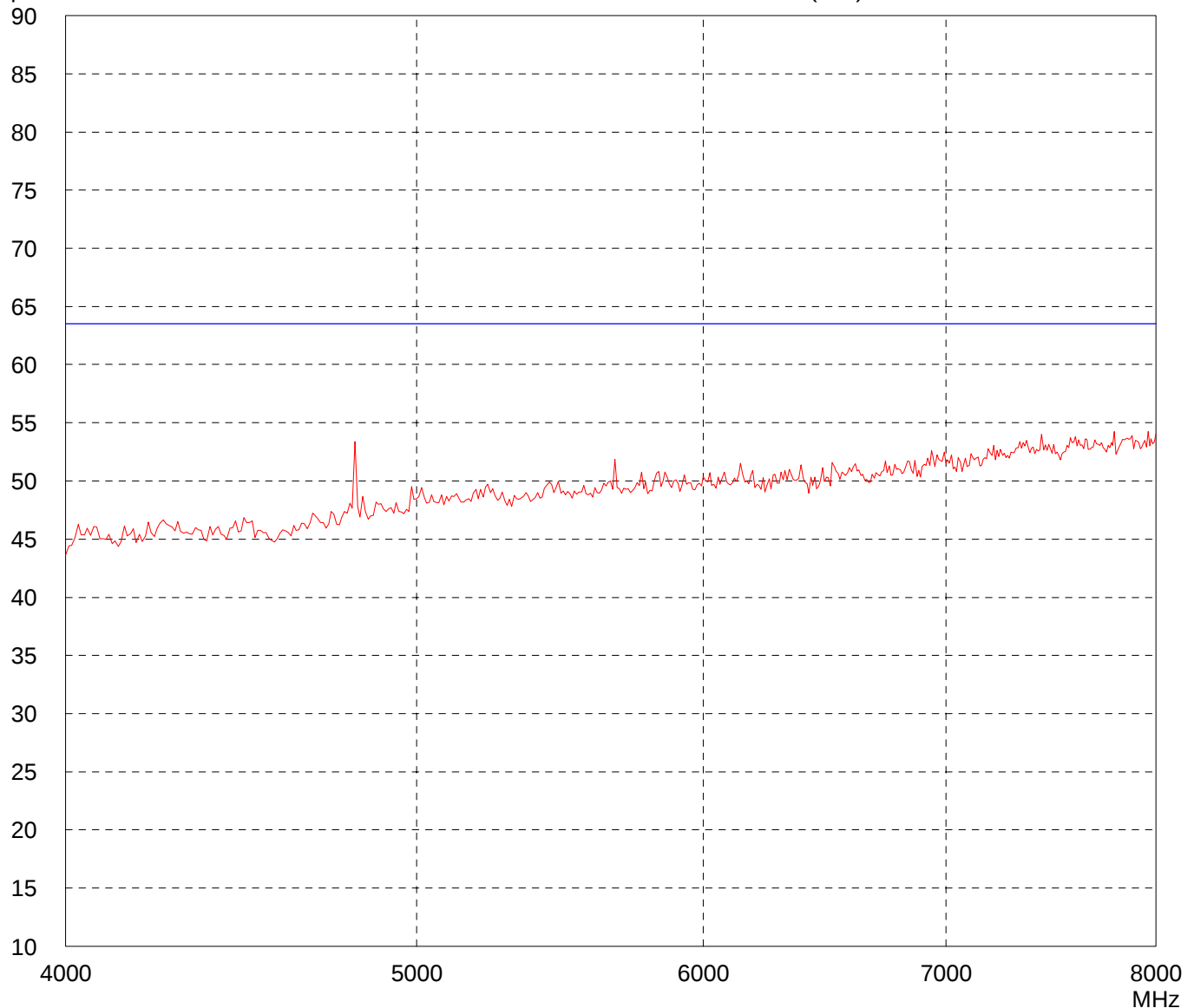
List of values:

Selected by hand

dBμV/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



Result:
Pass

Project file:
56109-71011-2

Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 1 (2405 MHz)
Serial no.: Unit B with Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 19 Nov 2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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

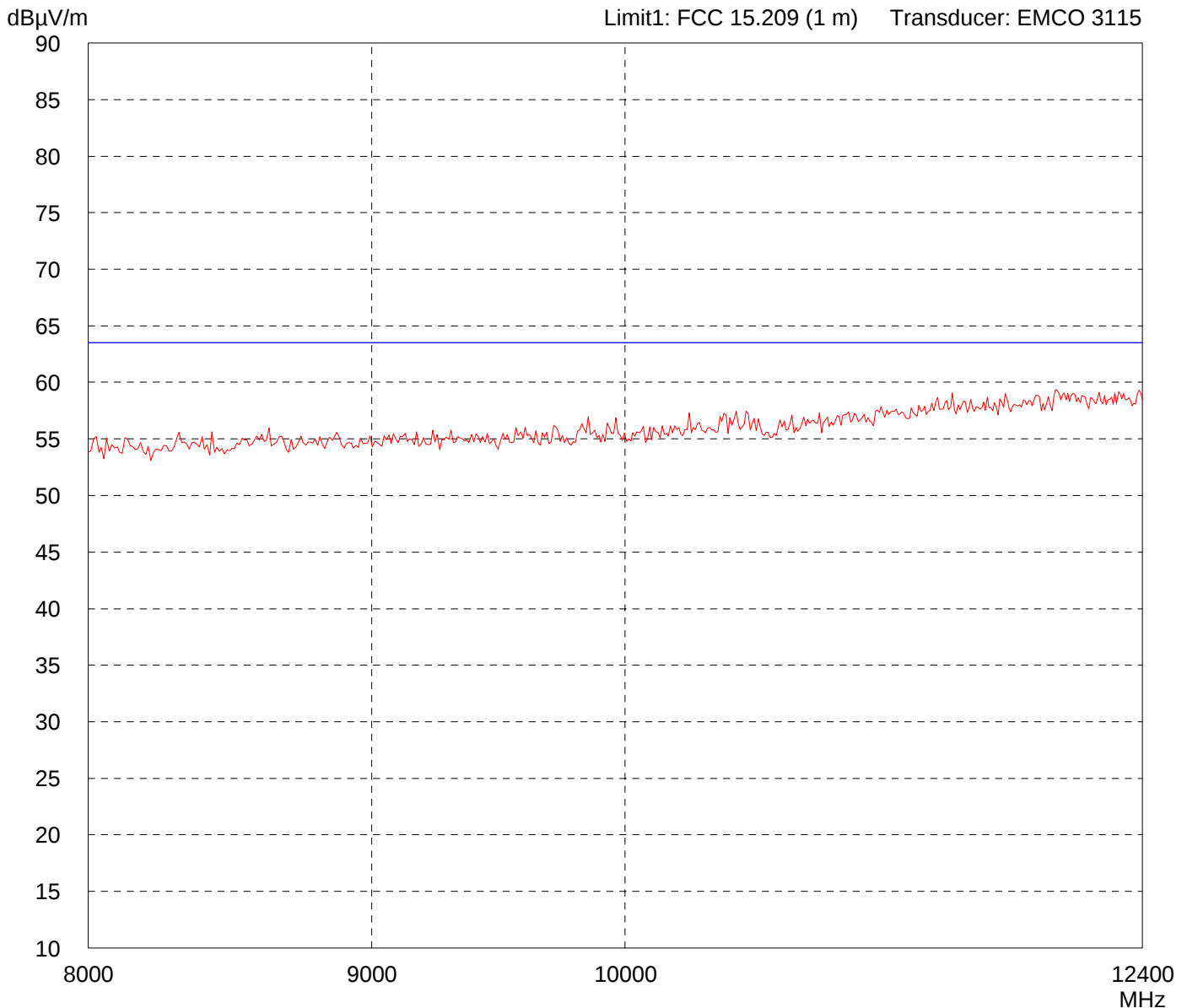


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 1 (2405 MHz)
Serial no.: Unit B with Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 19 Nov 2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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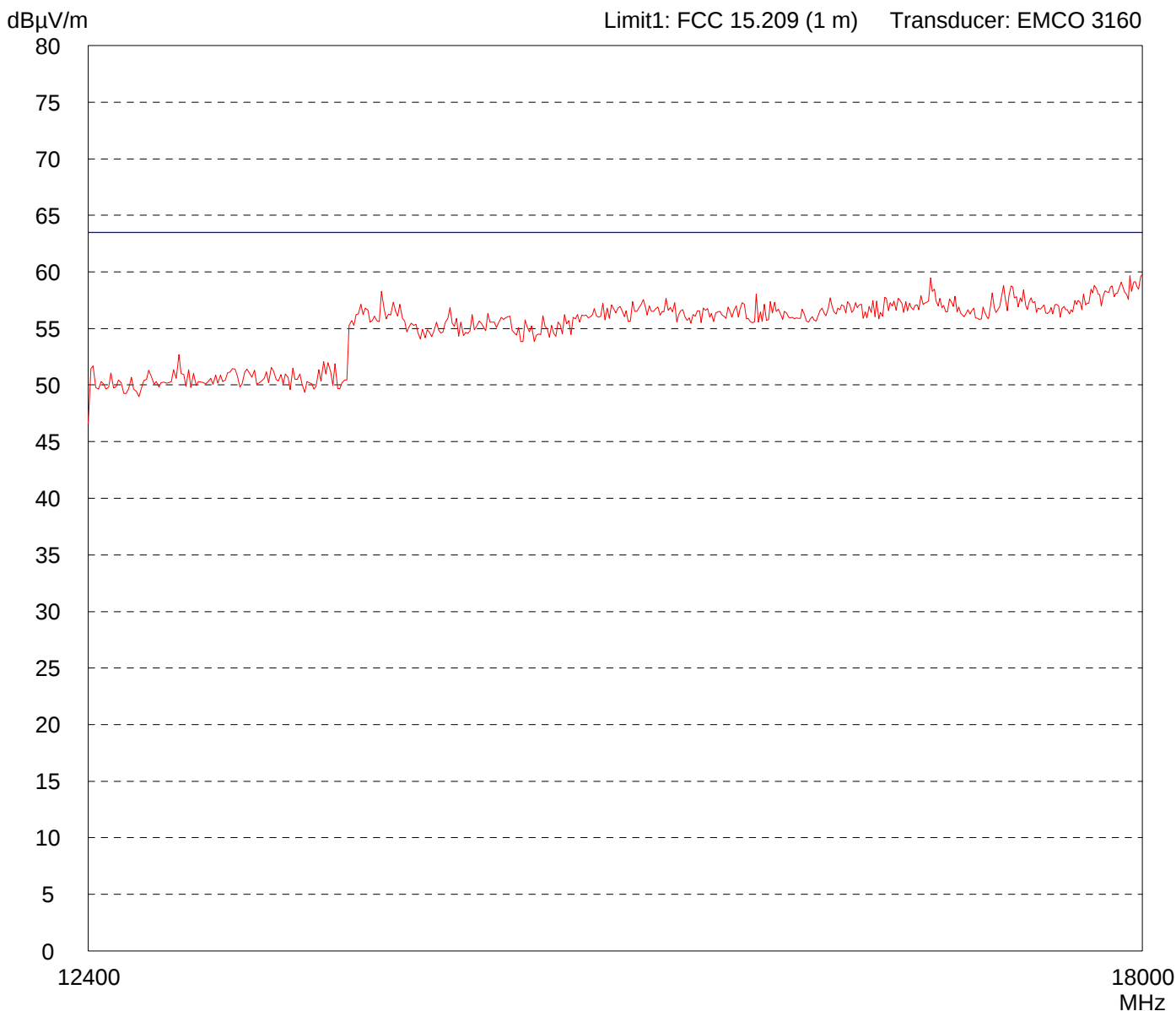


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 1 (2405 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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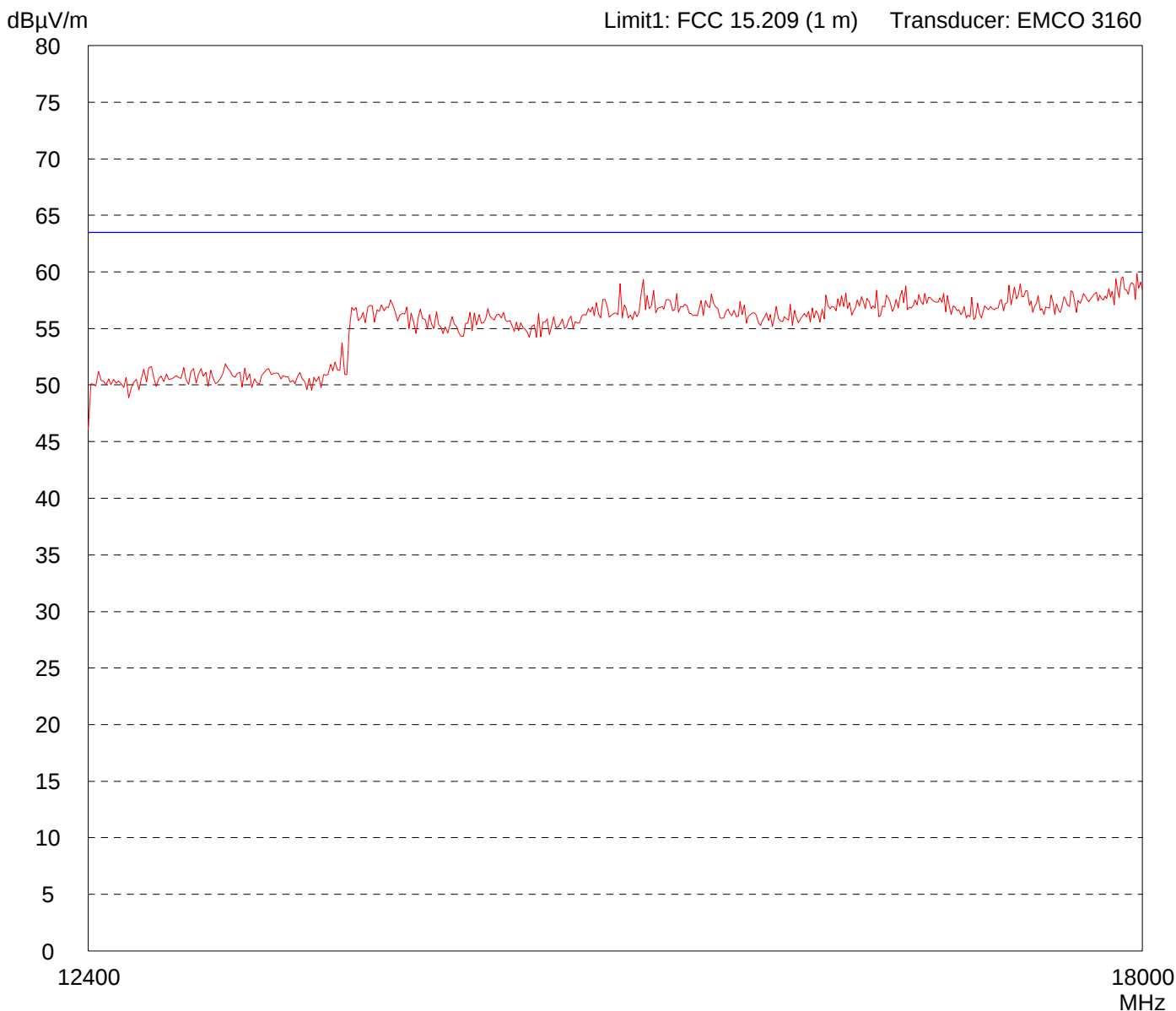


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 1 (2405 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Pass	Project file: 56109-71011-2
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Spurious emissions according to FCC Rules

Model:
ZB2430-D

Serial No.:
Unit B

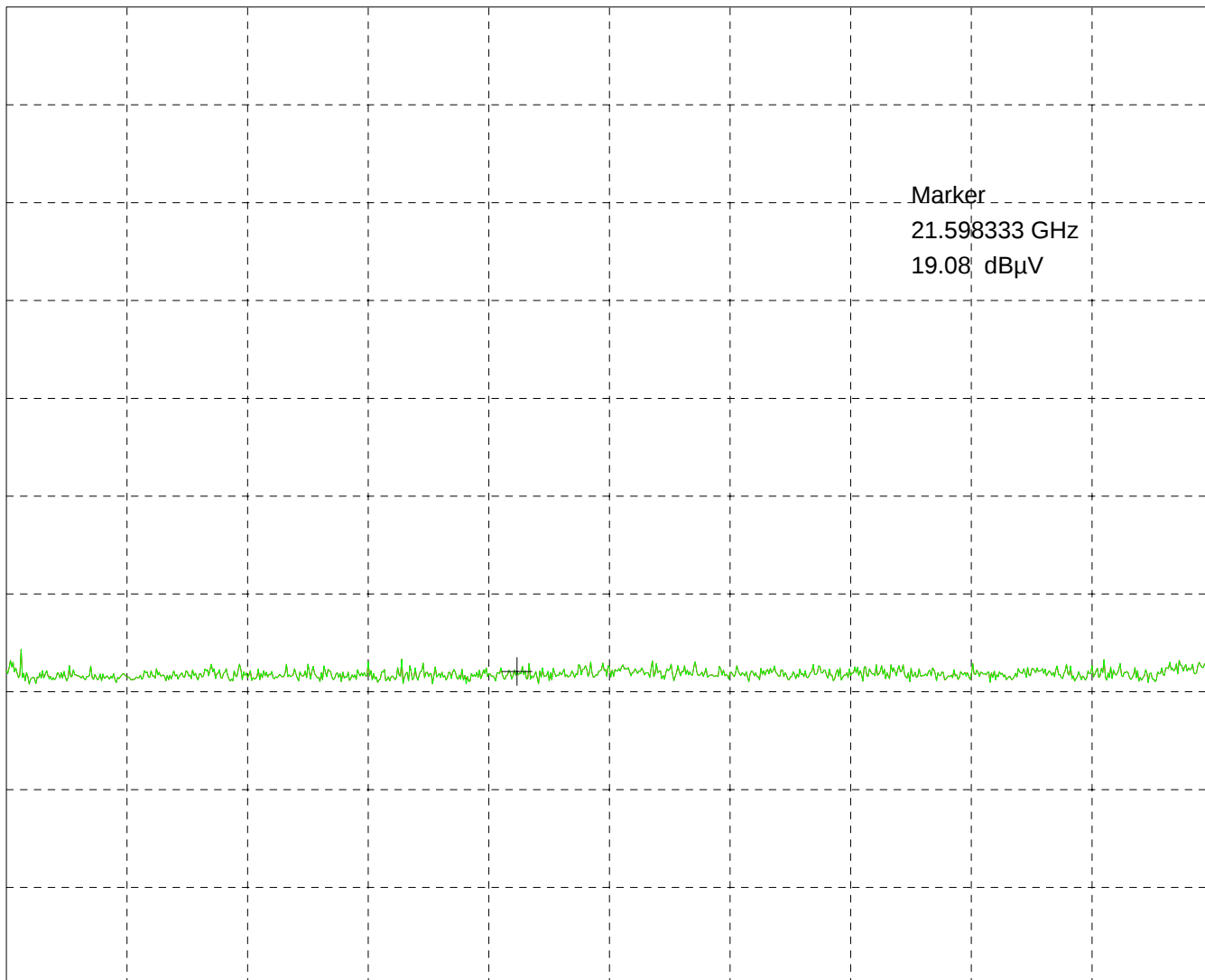
Applicant:
AEROCOMM, Inc.

Mode:
- TX at RF Channel 1 (2405 MHz)

- Antenna: Centurion integrated

Ref.Level 87 dB μ V
10 dB/Div.

ATT 0 dB



Start 18.000 GHz
RBW 100 kHz

VBW 100 kHz

Stop 26.500 GHz
SWP 2.60 s

Tested by:
Johann Roidt

Date:
11 Nov 2007

Project-No.:
56109-071011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample B (integrated antenna)

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
11/02/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX Mode at Channel 8 (2440 MHz, CW)

- Antenna: Centurion WIC2450-A

Detector:
Peak

List of values:

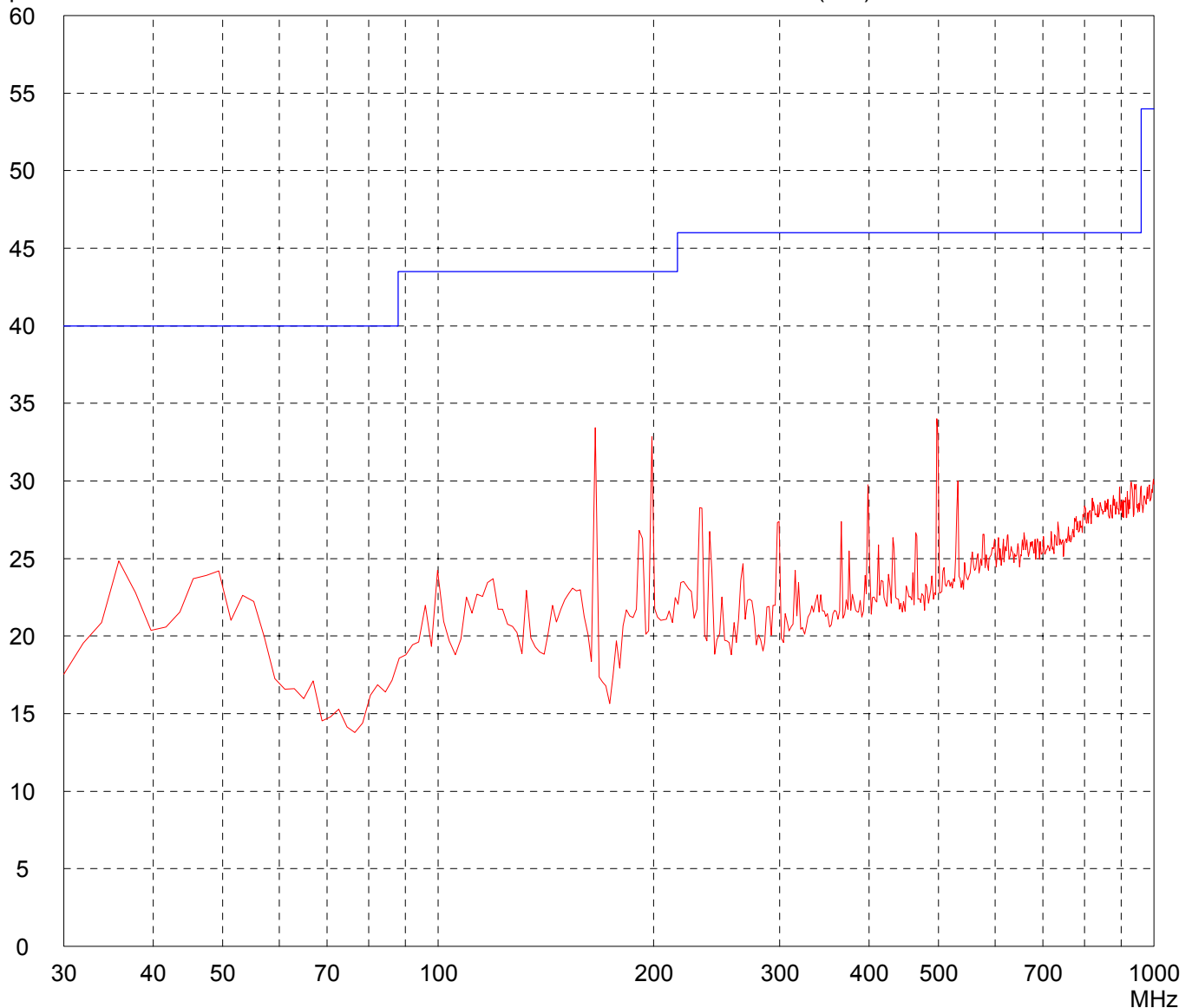
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample B (integrated antenna)

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/02/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

- TX Mode at Channel 8 (2440 MHz, CW)

- Antenna: Centurion WIC2450-A

Detector:
Peak

List of values:

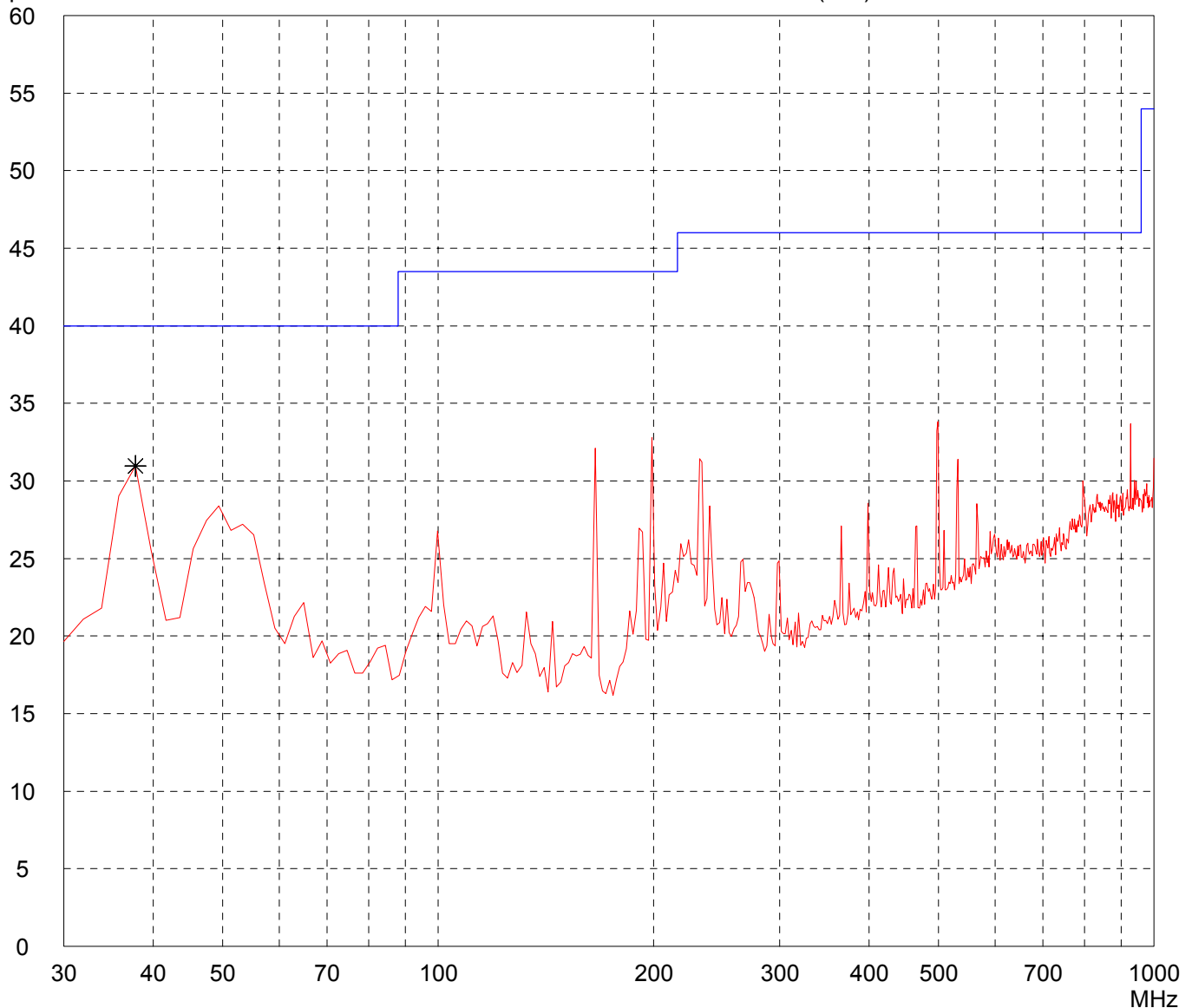
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



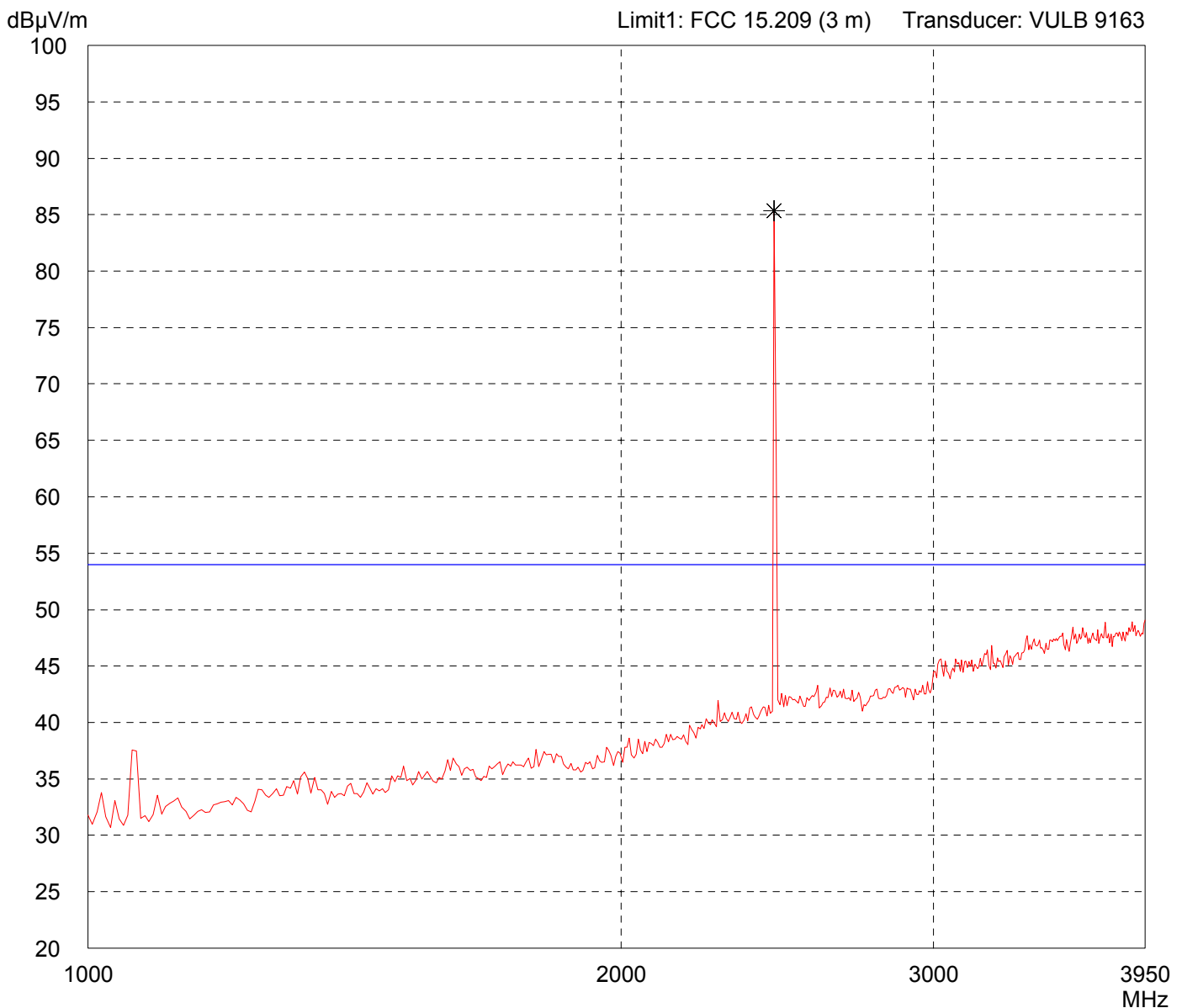
Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 3.95 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX Mode at Channel 8 (2440 MHz, CW) - Antenna: Centurion WIC2450-A
Serial no.: Sample B (integrated antenna)	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 11/02/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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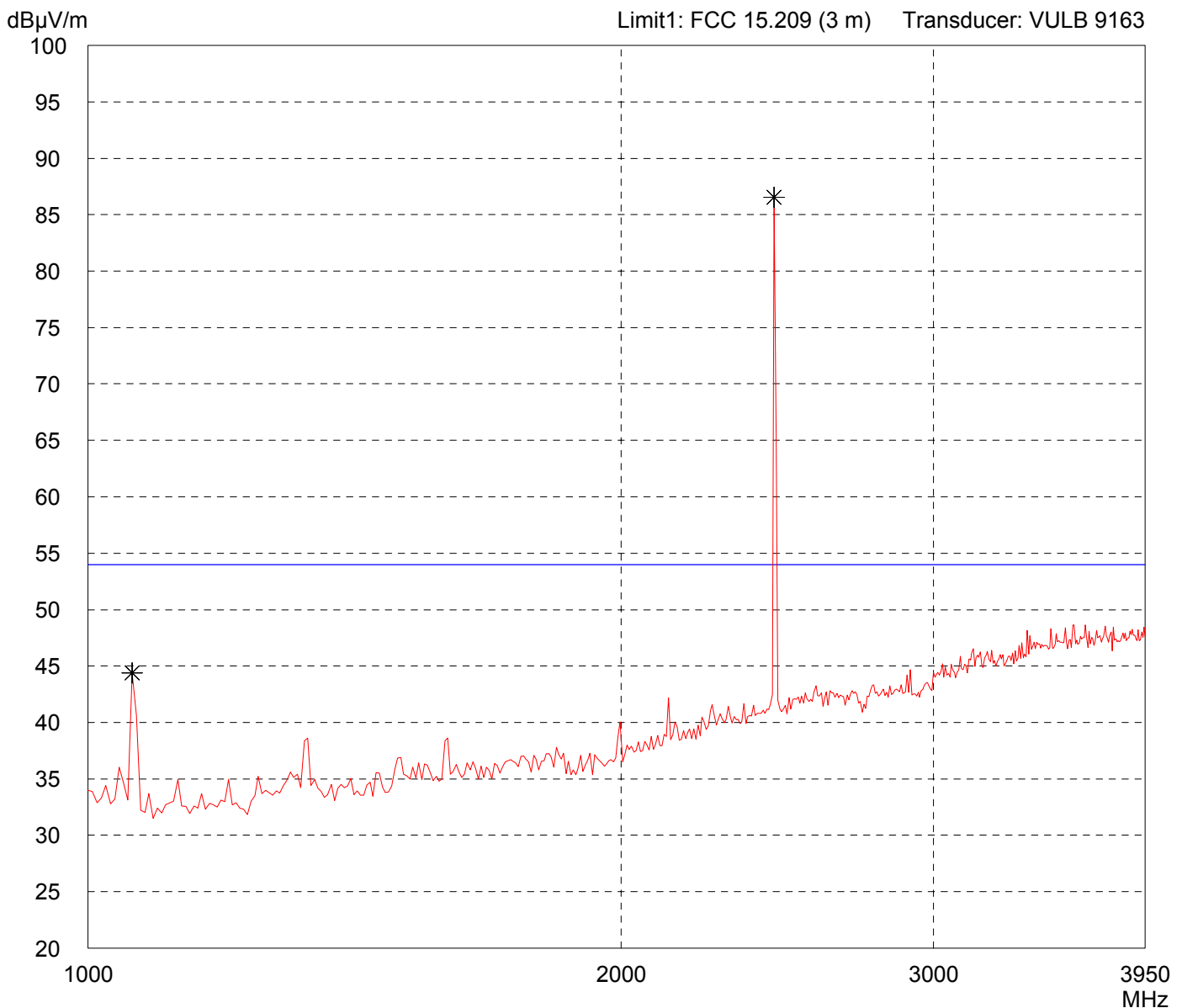


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 1 GHz - 3.95 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX Mode at Channel 8 (2440 MHz, CW) - Antenna: Centurion WIC2450-A
Serial no.: Sample B (integrated antenna)	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 11/02/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 4 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit B with Centurion 2 dBi

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Horizontal Polarization

Date of test:
19 Nov 2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at RF Channel 8 (2440 MHz)

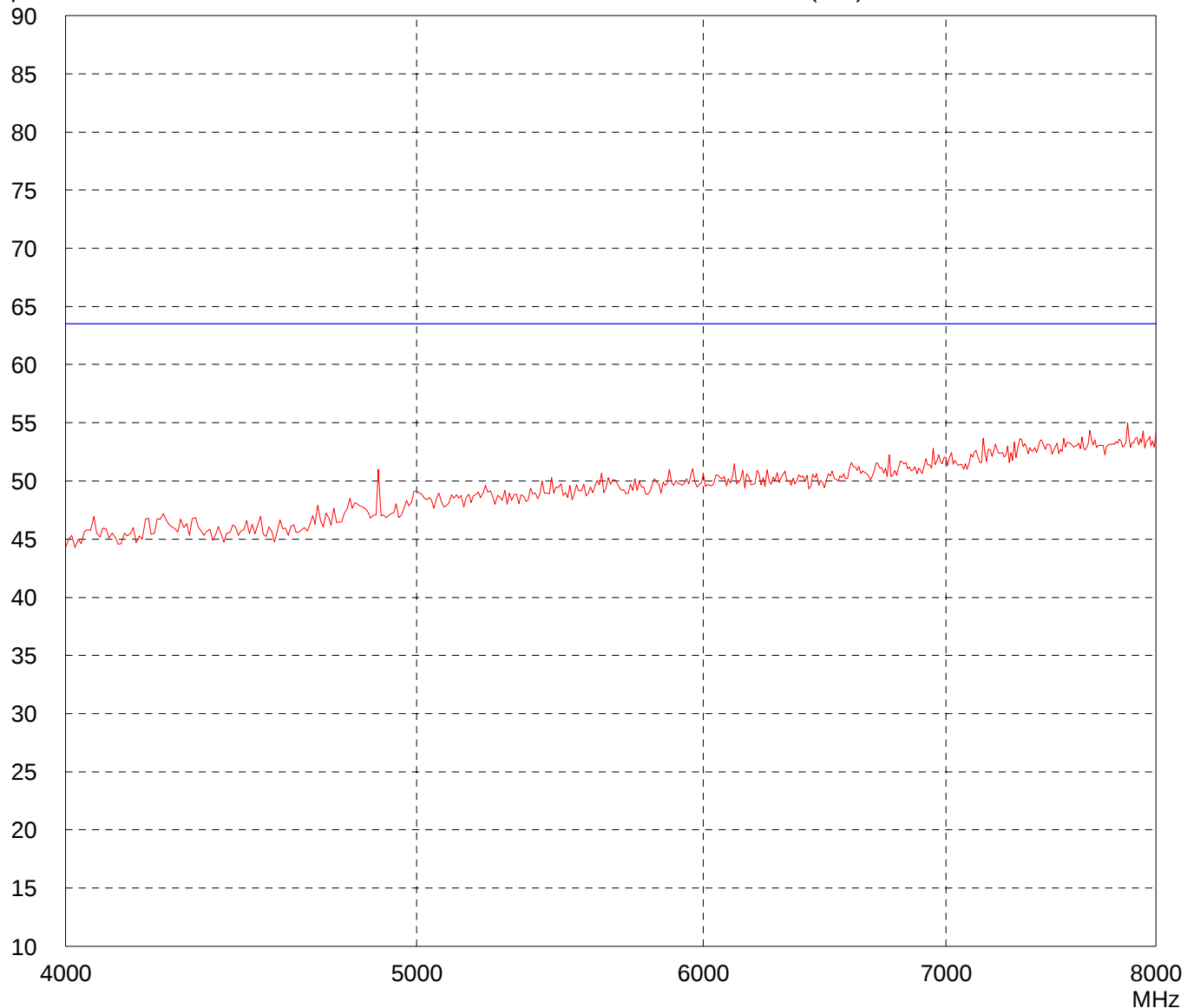
Detector:
Peak

List of values:

Selected by hand

dB μ V/m

Limit1: FCC 15.209 (1 m) Transducer: EMCO 3115



Result:
Pass

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit B with Centurion 2 dBi

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Vertical Polarization

Date of test:
19 Nov 2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- TX at RF Channel 8 (2440 MHz)

Detector:
Peak

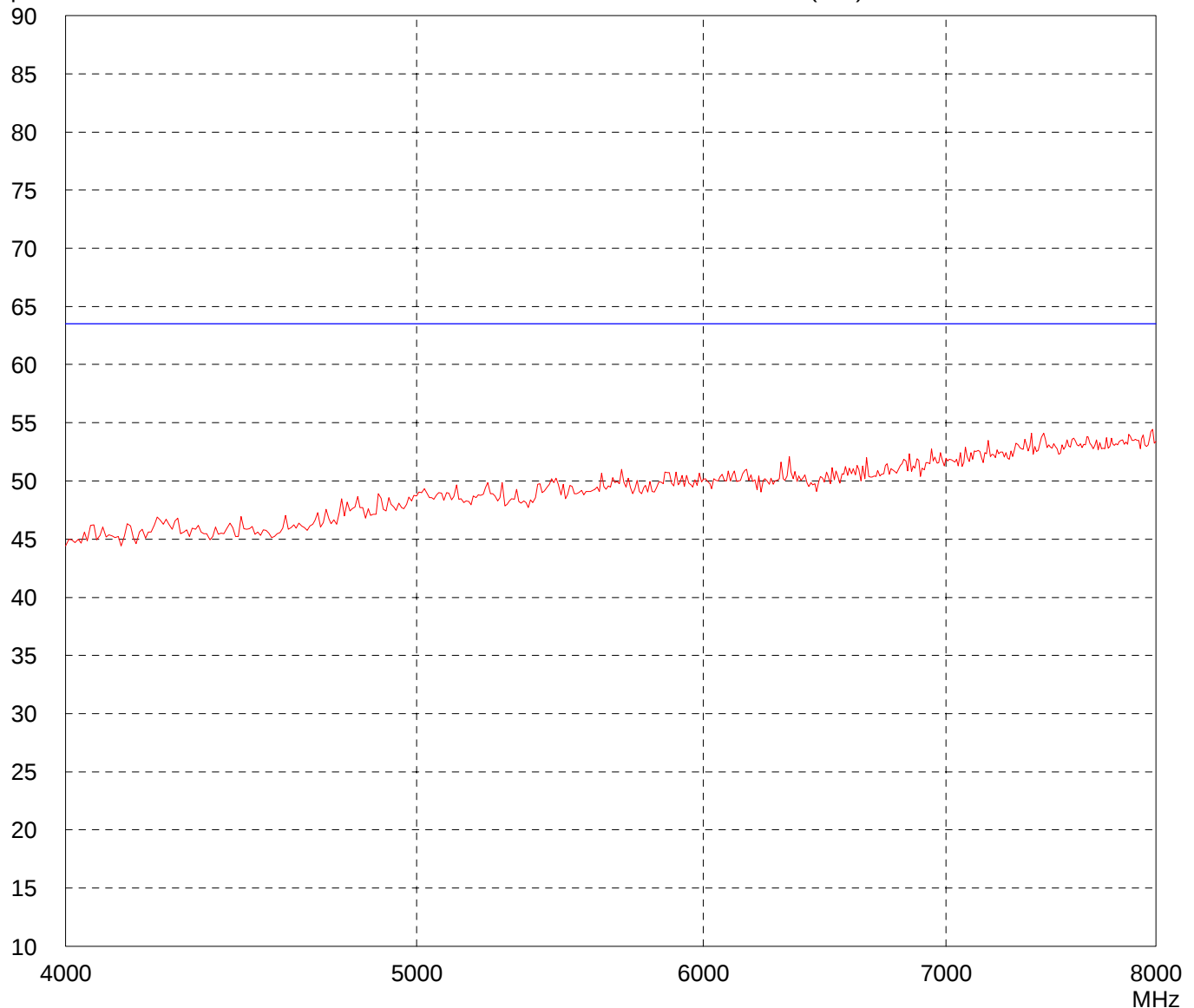
List of values:

Selected by hand

dB μ V/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



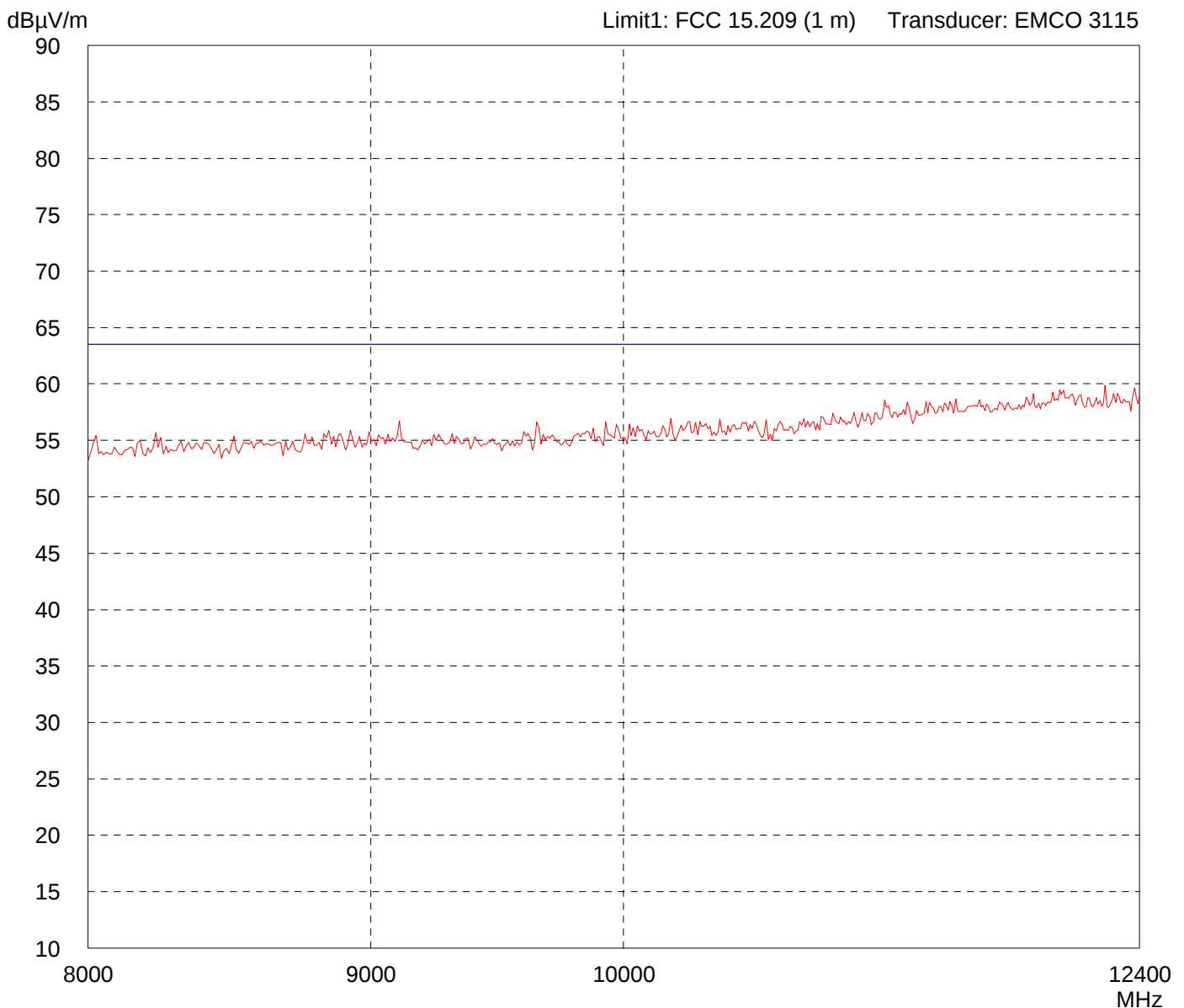
Result:
Pass

Project file:
56109-71011-2

Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 8 (2440 MHz)
Serial no.: Unit B with Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 19 Nov 2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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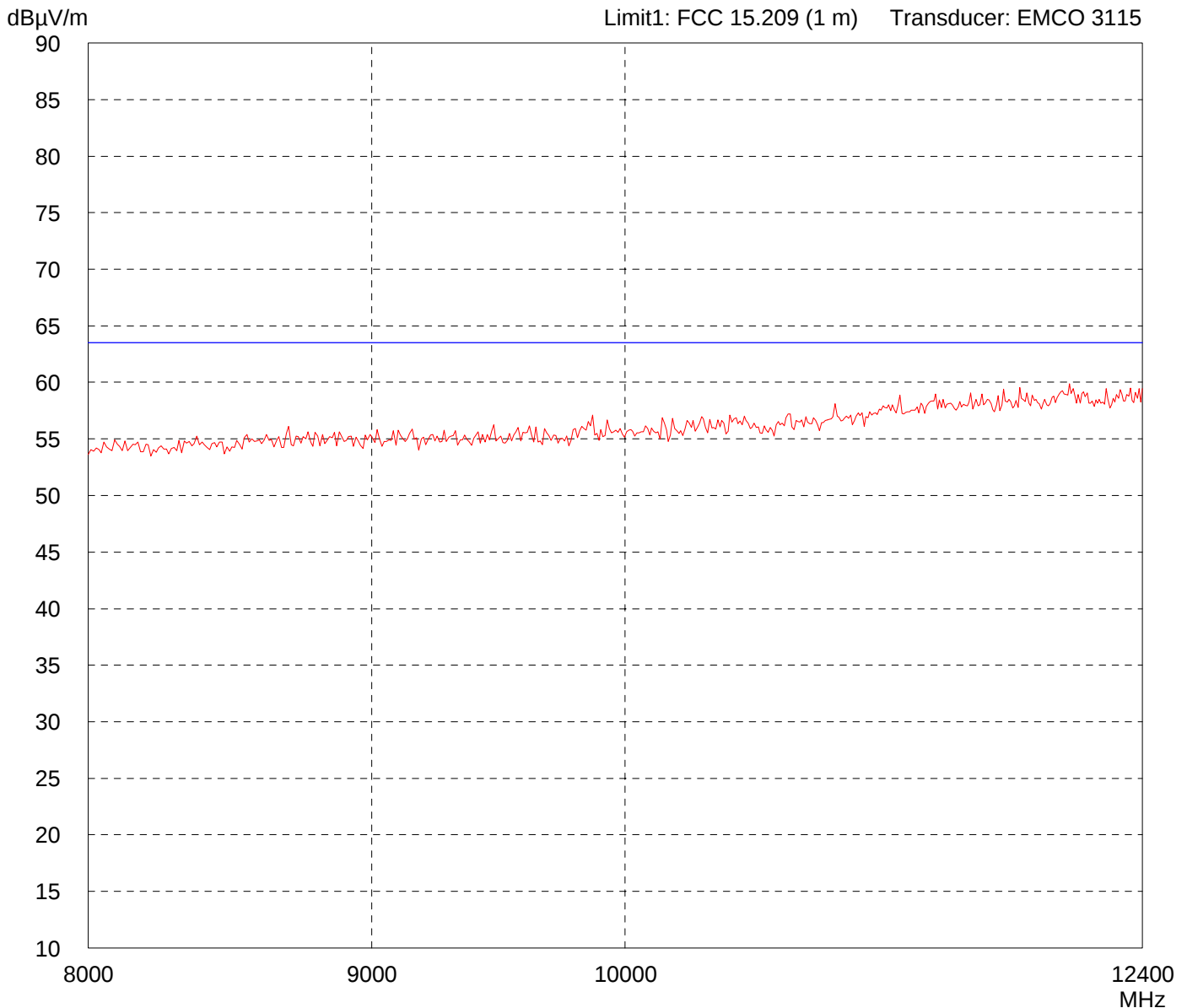


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 8 (2440 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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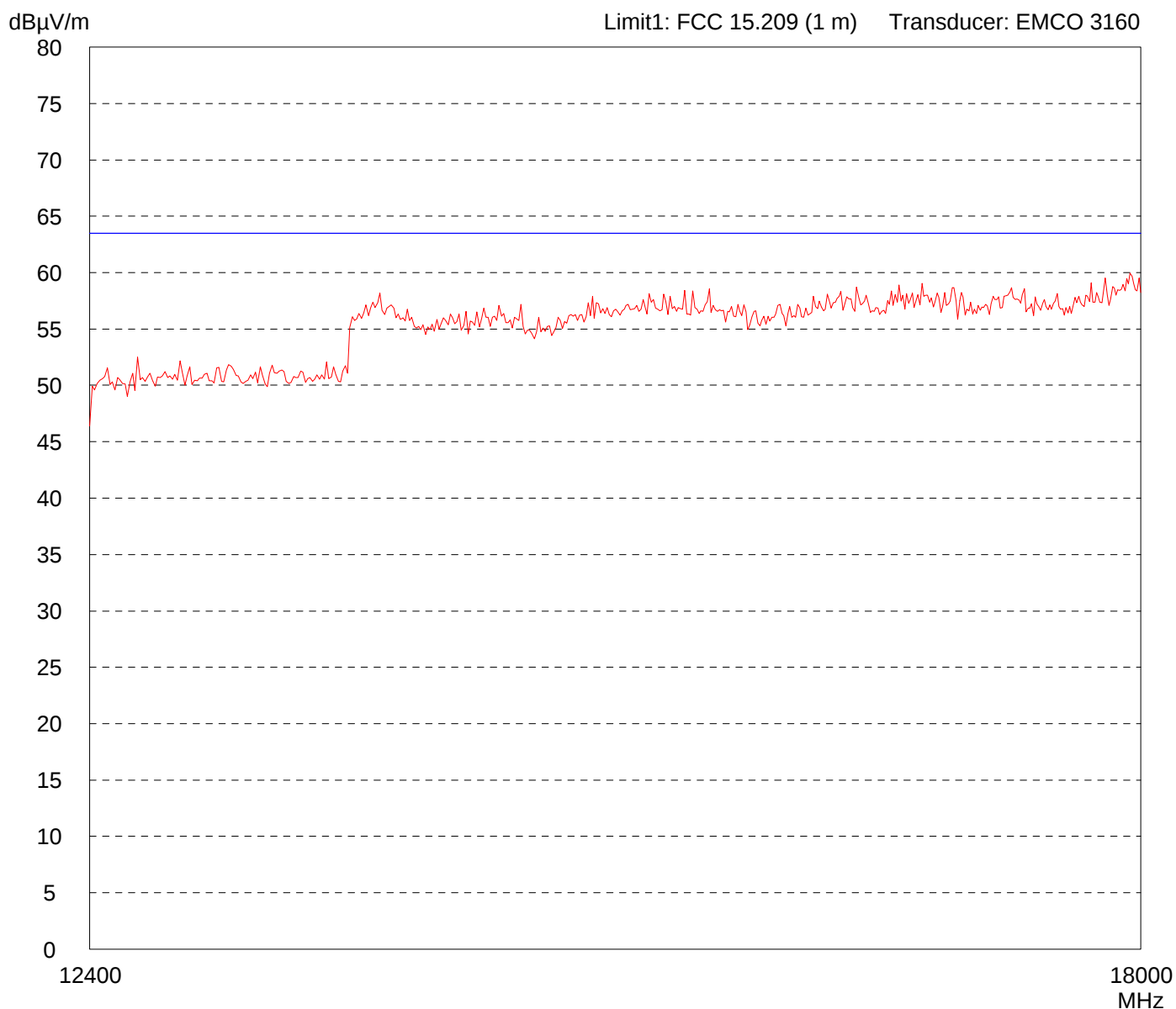


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 8 (2440 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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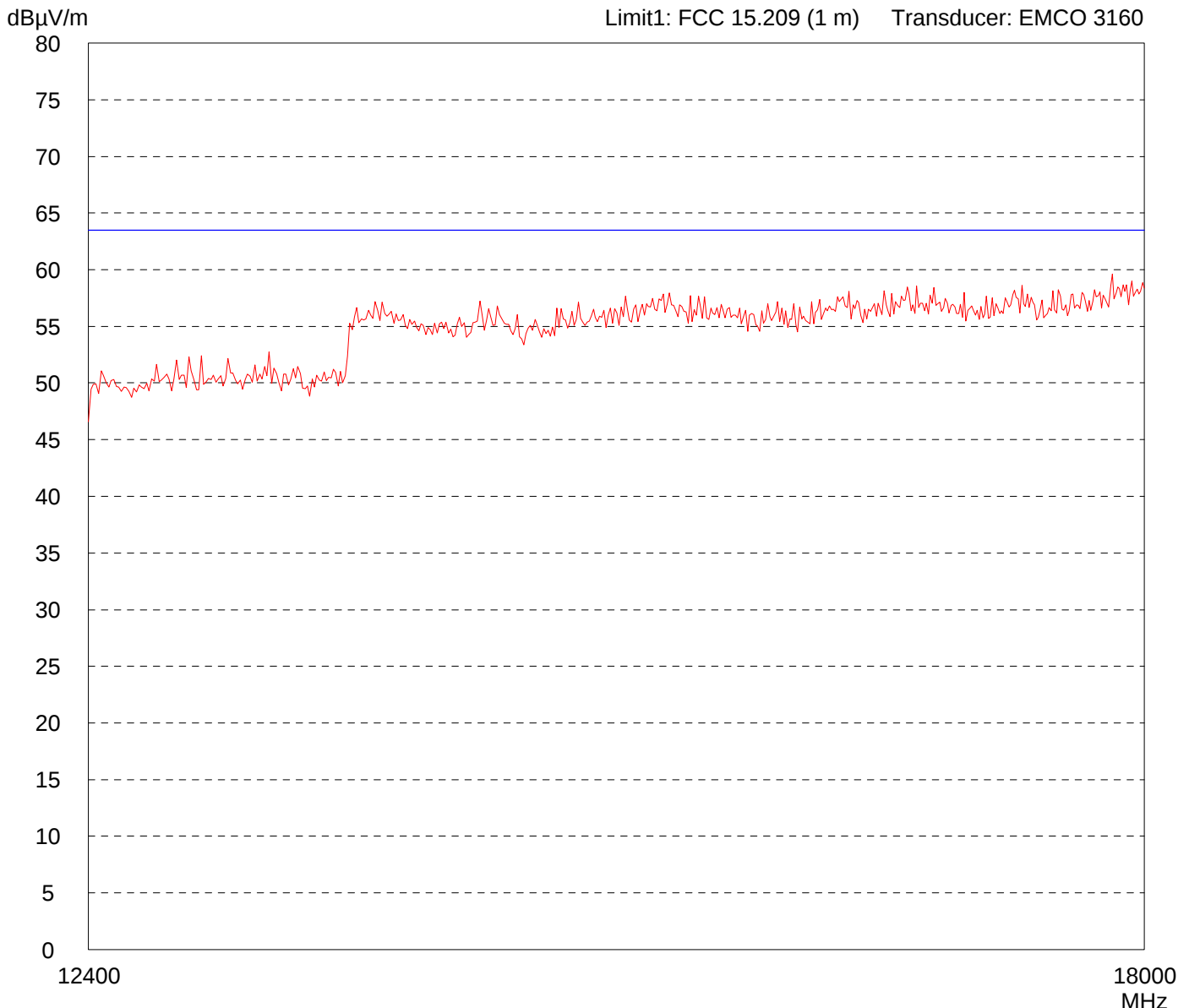


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 8 (2440 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Pass	Project file: 56109-71011-2
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Spurious emissions according to FCC Rules

Model:
ZB2430-D

Serial No.:
Unit B

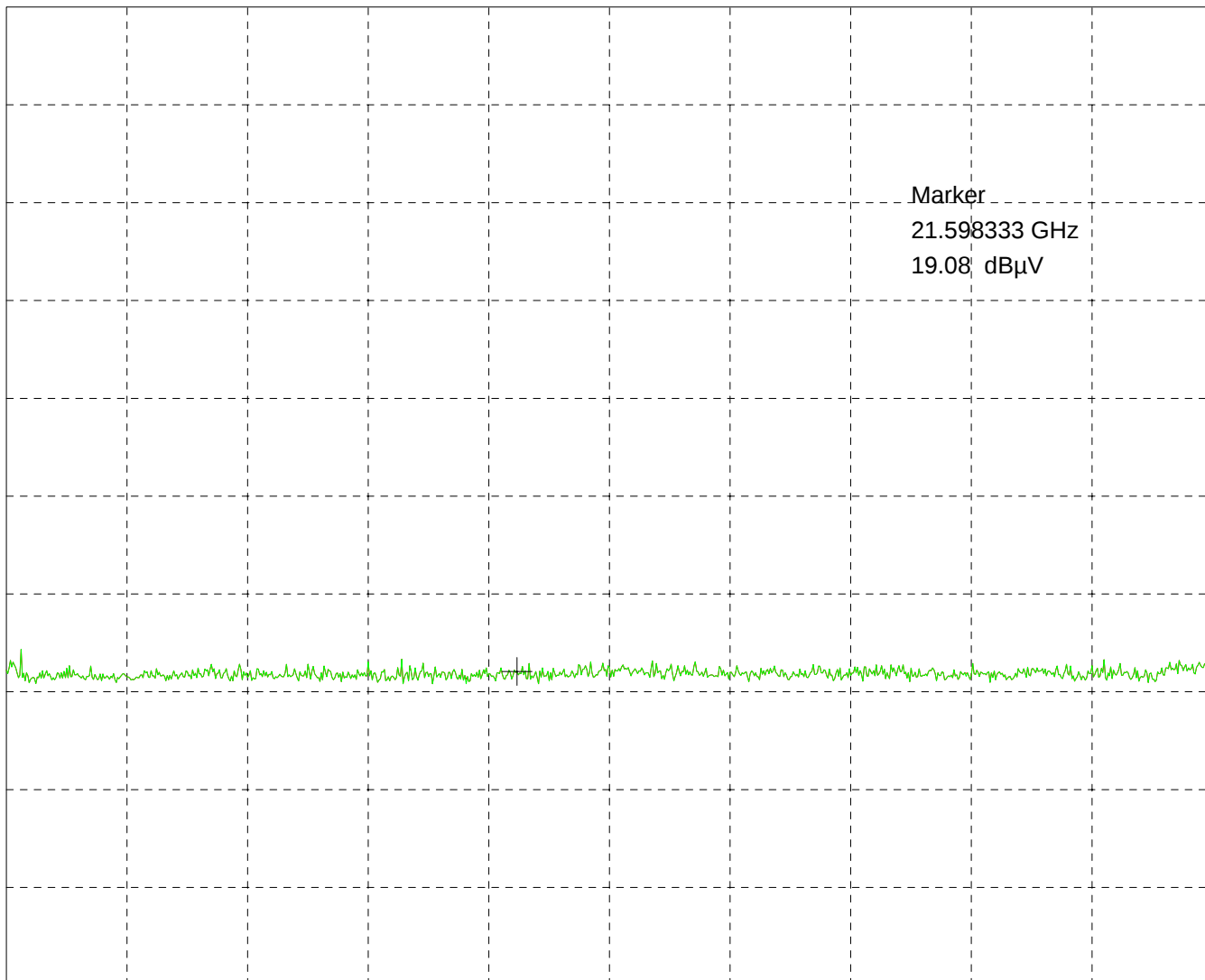
Applicant:
AEROCOMM, Inc.

Mode:
- TX at RF Channel 8 (2440 MHz)

- Antenna: Centurion integrated

Ref.Level 87 dB μ V
10 dB/Div.

ATT 0 dB



Start 18.000 GHz
RBW 100 kHz

VBW 100 kHz

Stop 26.500 GHz
SWP 2.60 s

Tested by:
Johann Roidt

Date:
11 Nov 2007

Project-No.:
56109-071011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample B (integrated antenna)

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test: 11/02/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

- TX Mode at Channel 15 (2475 MHz, with modulation)
- Antenna: Centurion WIC2450-A
- RBW = 30 kHz

Detector:
Peak

List of values:

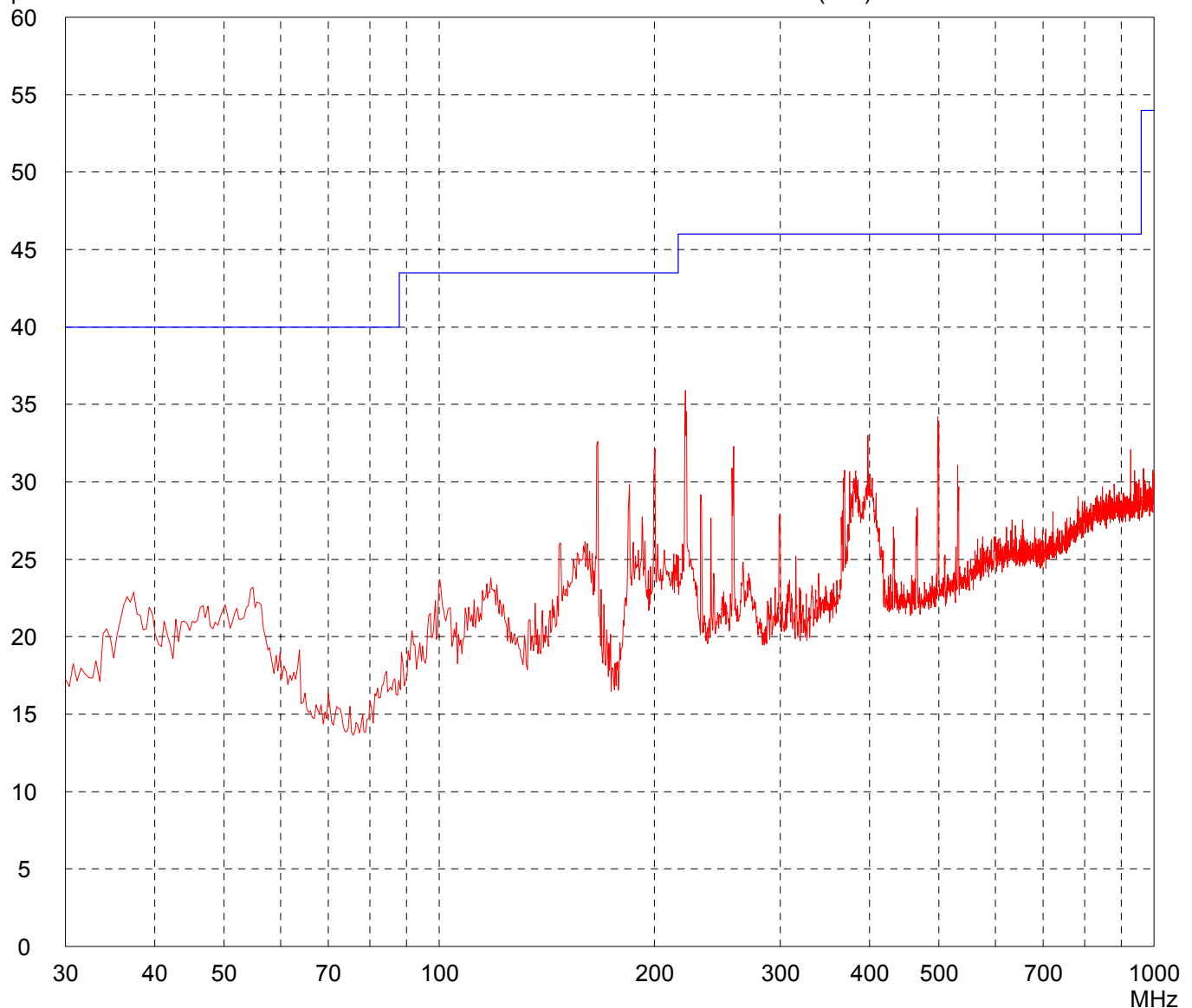
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample B (integrated antenna)

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test: 11/02/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:

- TX Mode at Channel 15 (2475 MHz, with modulation)
- Antenna: Centurion WIC2450-A
- RBW = 30 kHz

Detector:
Peak

List of values:

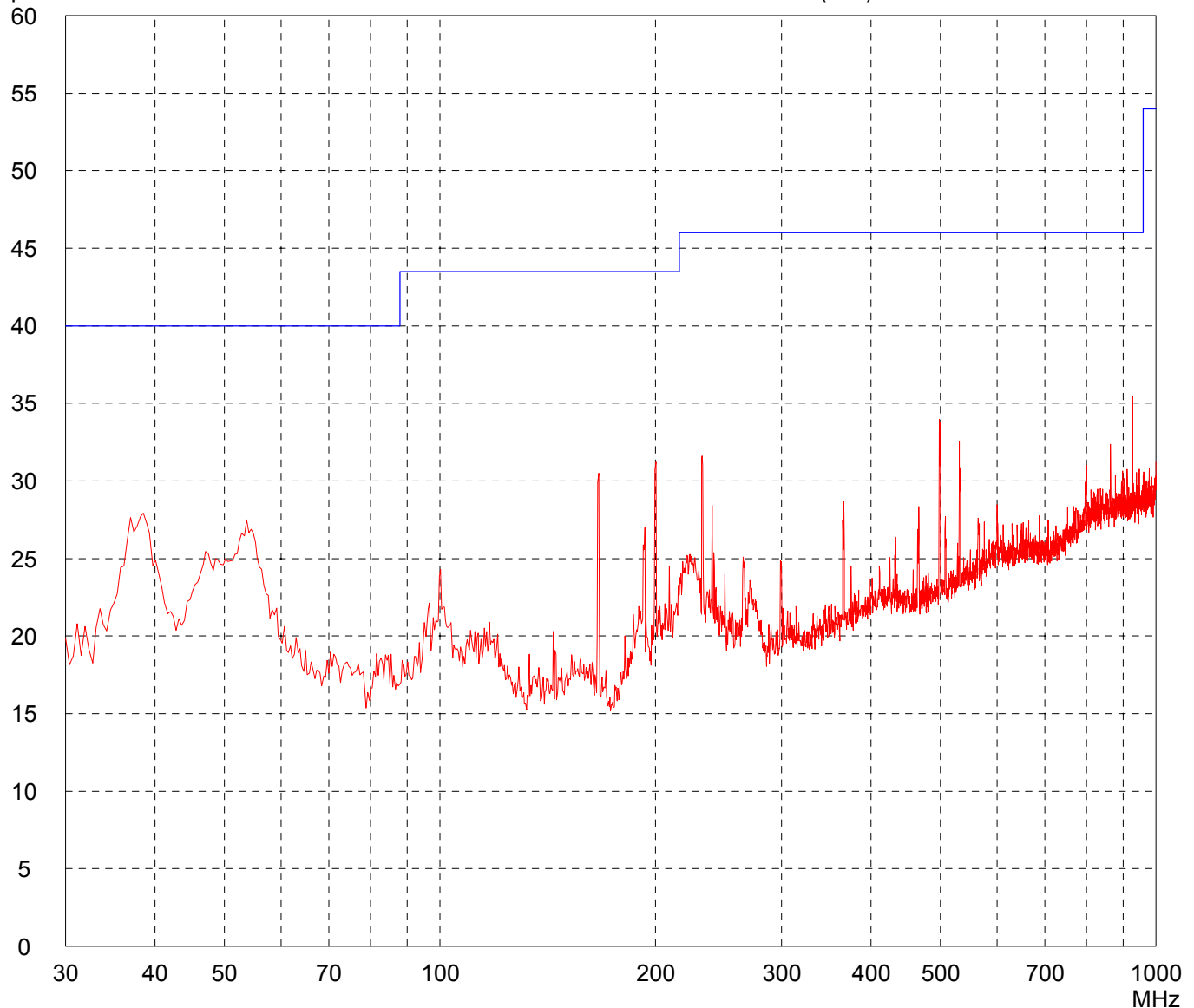
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163

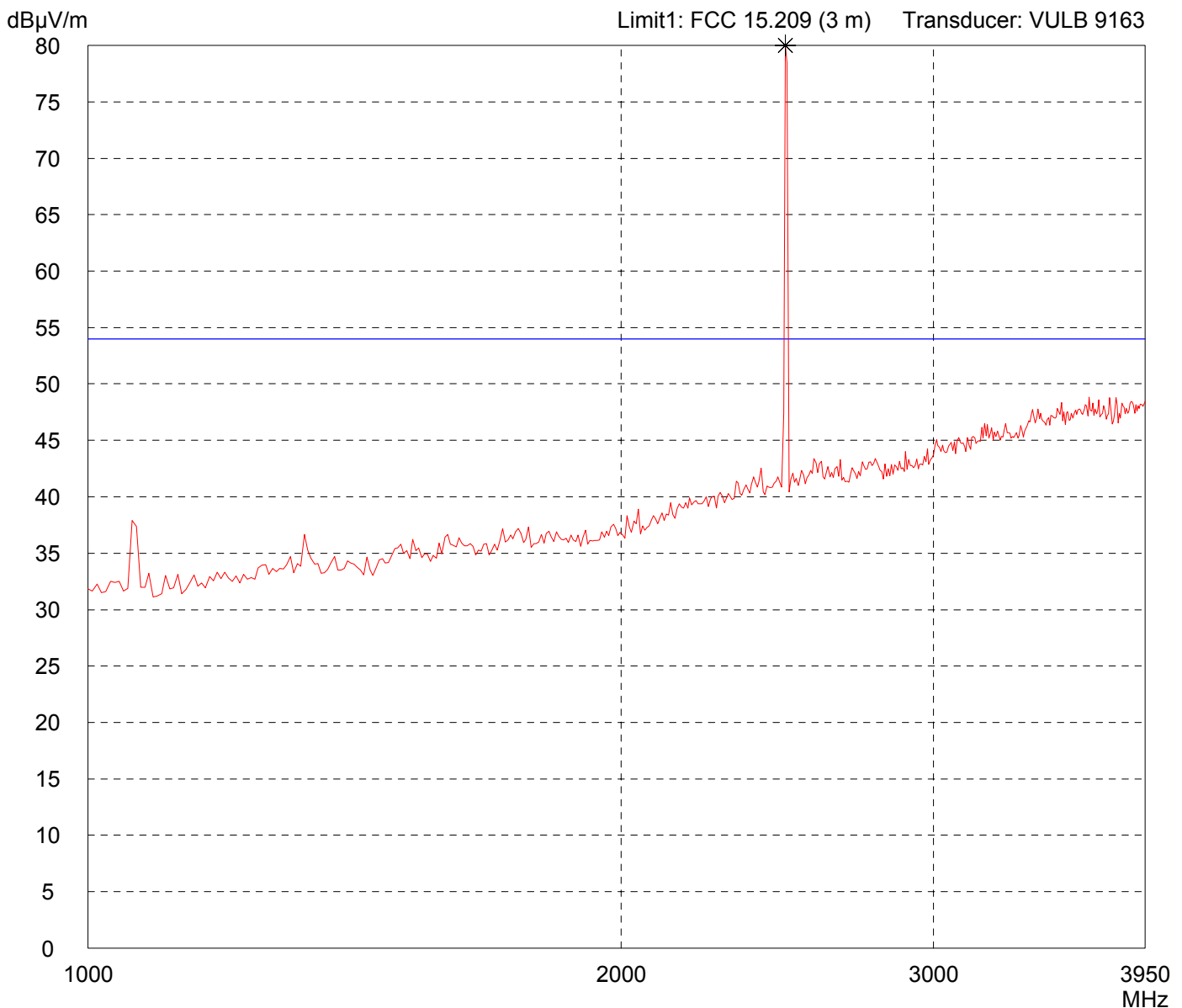


Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 3.95 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D		Comment: - TX Mode at Channel 15 (2475 MHz, with modulation) - Antenna: Centurion WIC2450-A - RBW = 30 kHz
Serial no.: Sample B (integrated antenna)		
Applicant: AEROCOMM, Inc.		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 3 metres Horizontal Polarization		
Date of test: 11/02/2007	Operator: J. Roidt	List of values: Selected by hand
Test performed: automatically	File name: default.emi	
Detector: Peak		

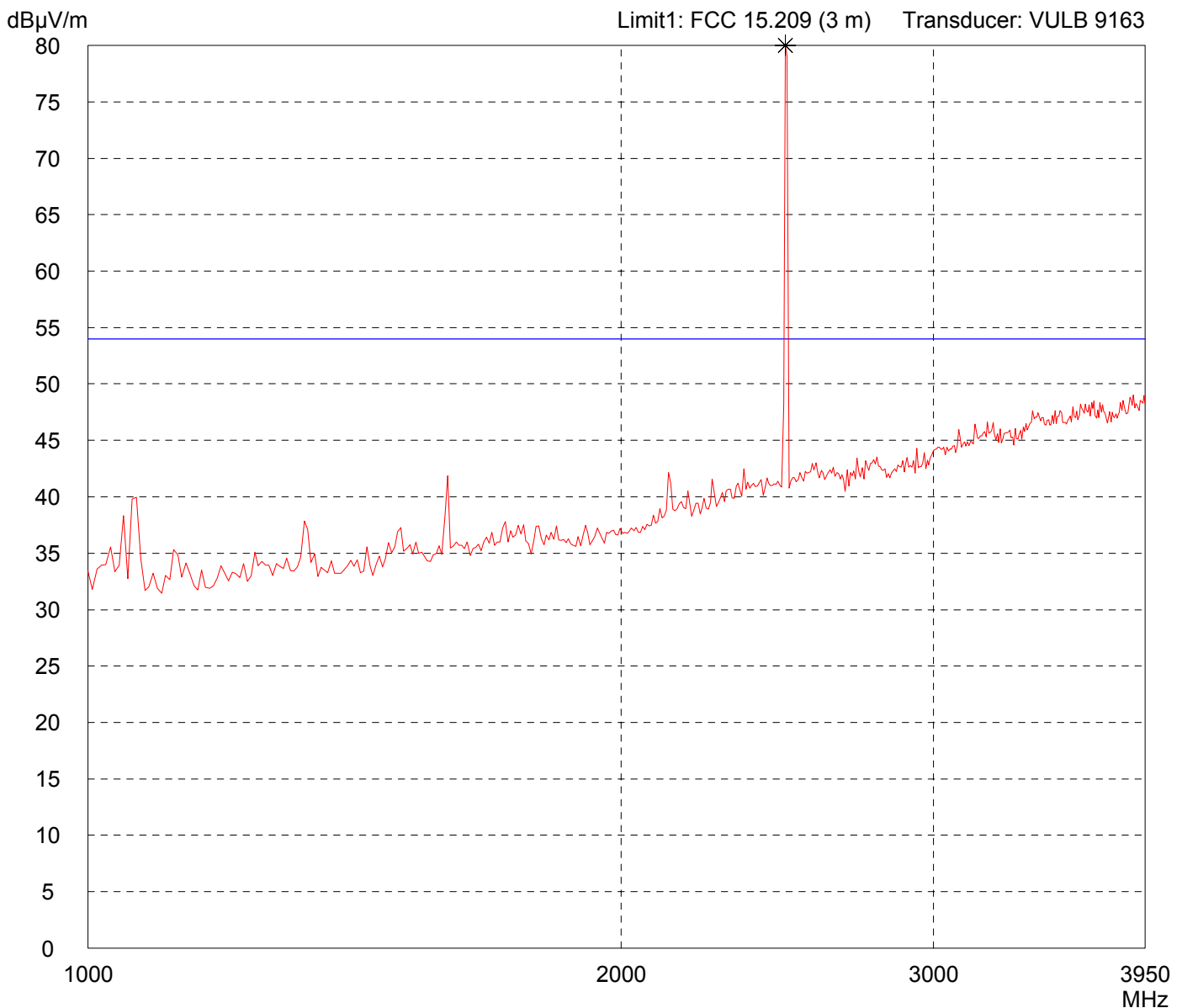


Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 1 GHz - 3.95 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX Mode at Channel 15 (2475 MHz, with modulation) - Antenna: Centurion WIC2450-A - RBW = 30 kHz
Serial no.: Sample B (integrated antenna)	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 11/02/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 4 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit B wit Centurion 2 dBi

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Vertical Polarization

Date of test:
19 Nov 2007

Operator:

Test performed:
automatically

File name:
default.emi

Comment:

- TX at RF Channel 15 (2475 MHz)

Detector:
Peak

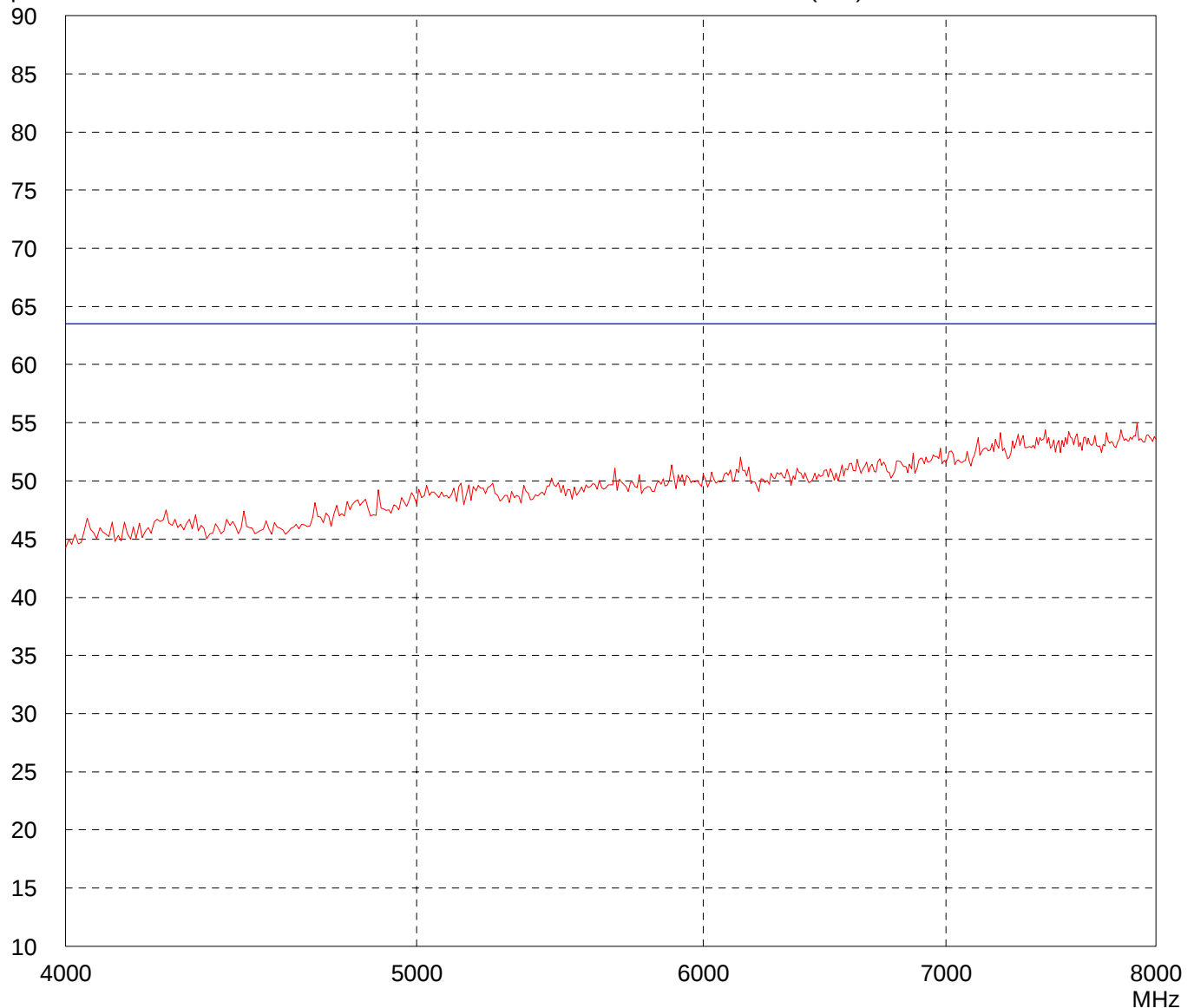
List of values:

Selected by hand

dB μ V/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



Result:
Pass

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit B wit Centurion 2 dBi

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Vertical Polarization

Date of test:
19 Nov 2007

Operator:

Test performed:
automatically

File name:
default.emi

Comment:

- TX at RF Channel 15 (2475 MHz)

Detector:
Peak

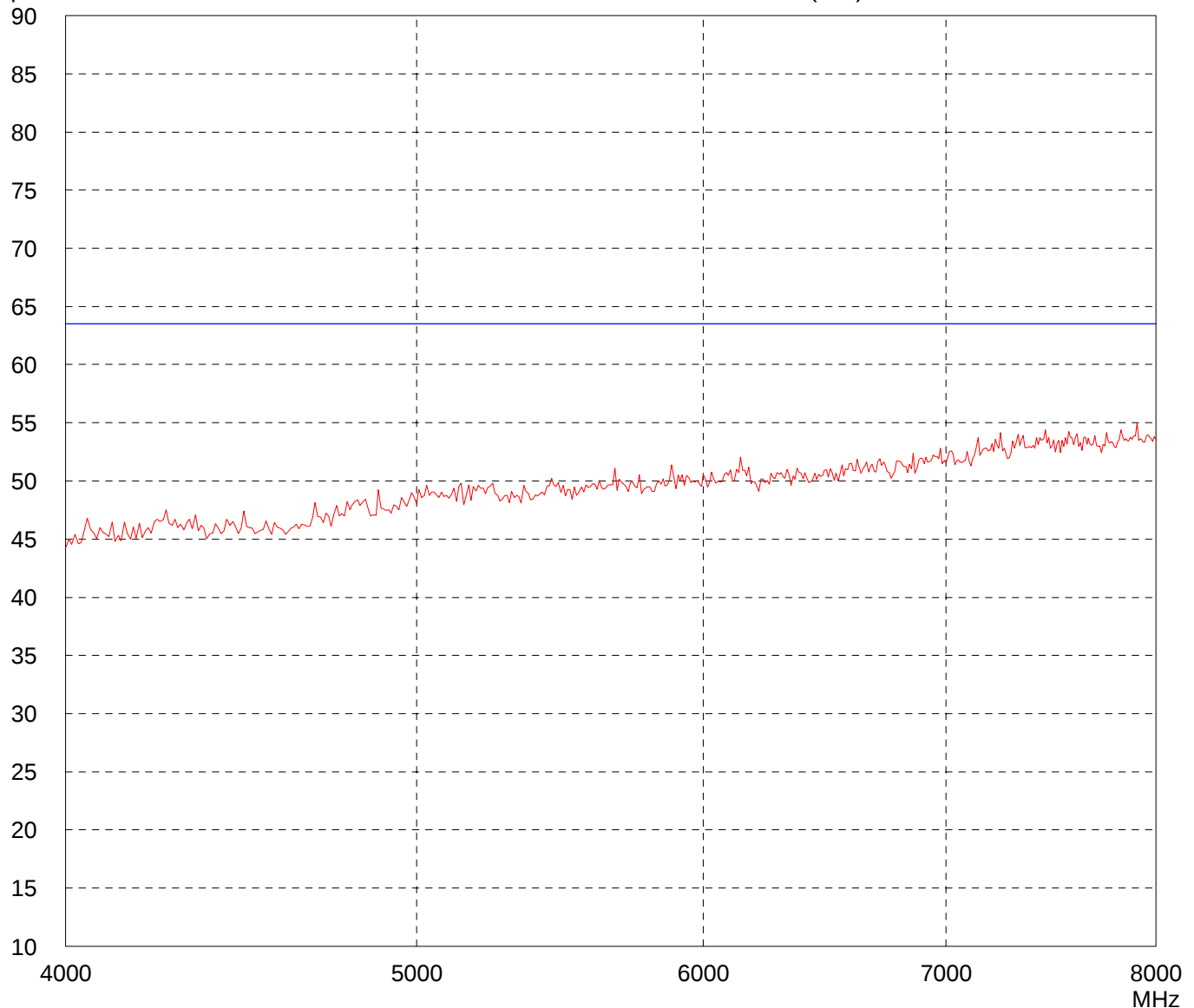
List of values:

Selected by hand

dBμV/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



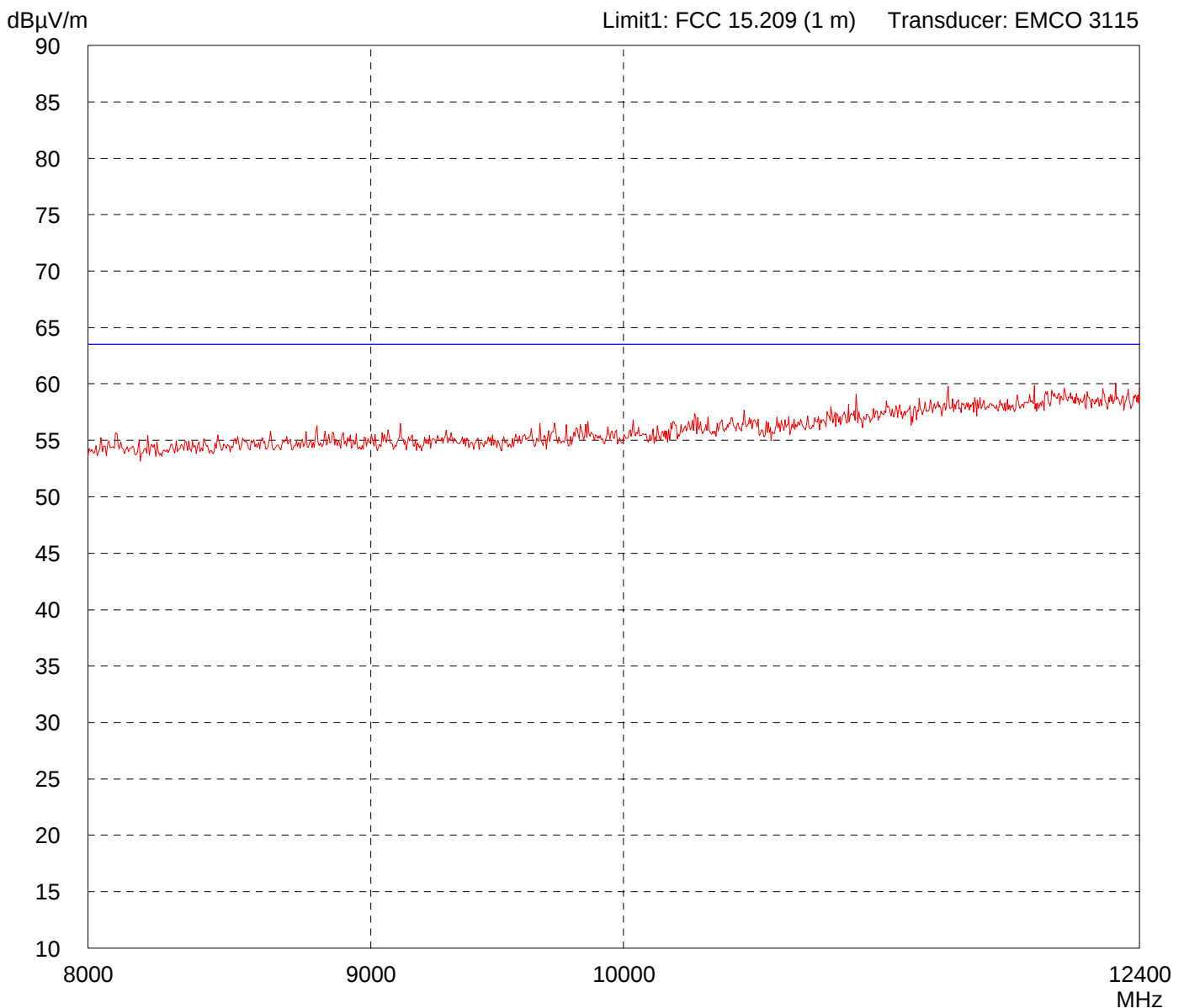
Result:
Pass

Project file:
56109-71011-2

Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 15 (2475 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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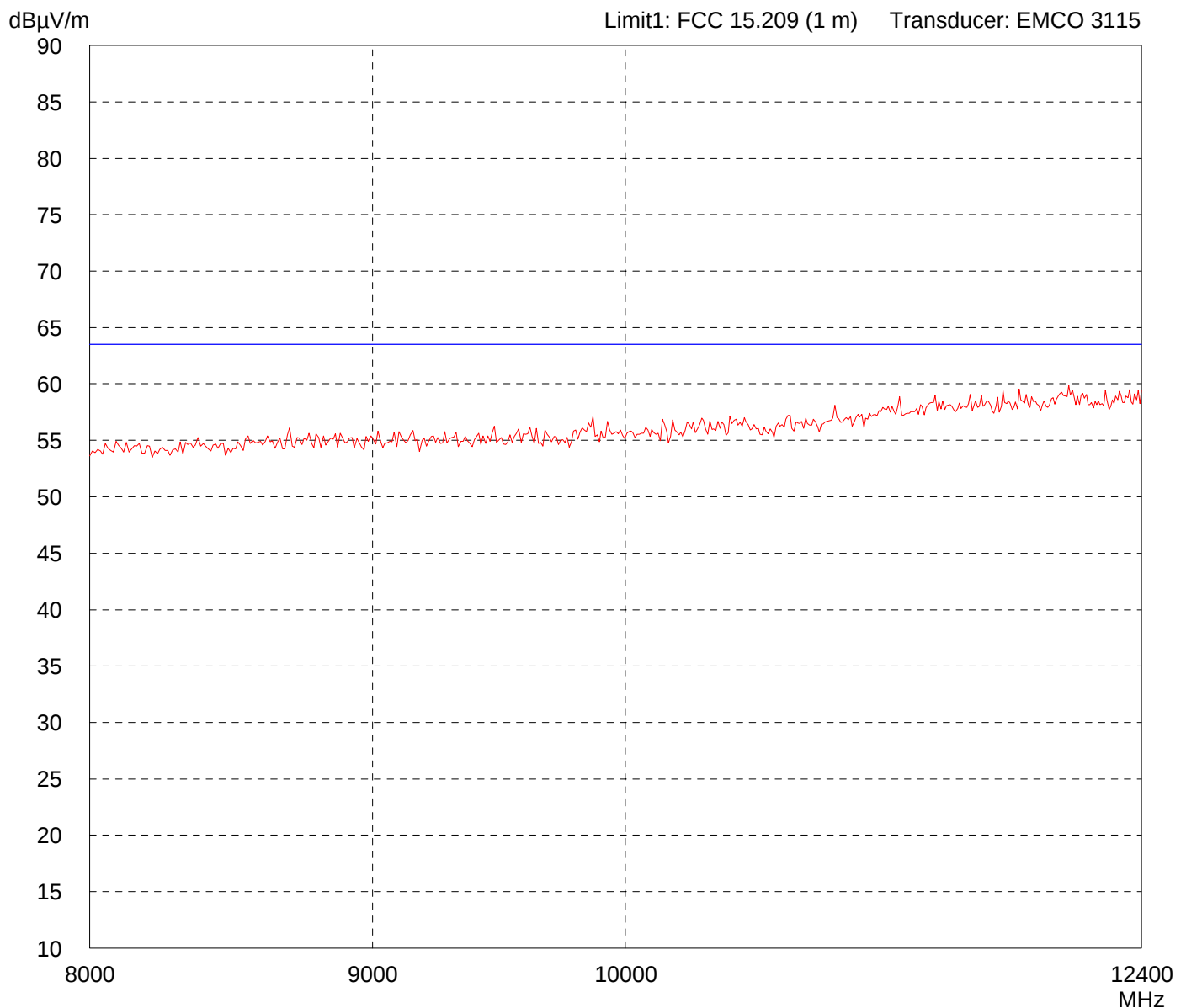


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 8 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 15 (2475 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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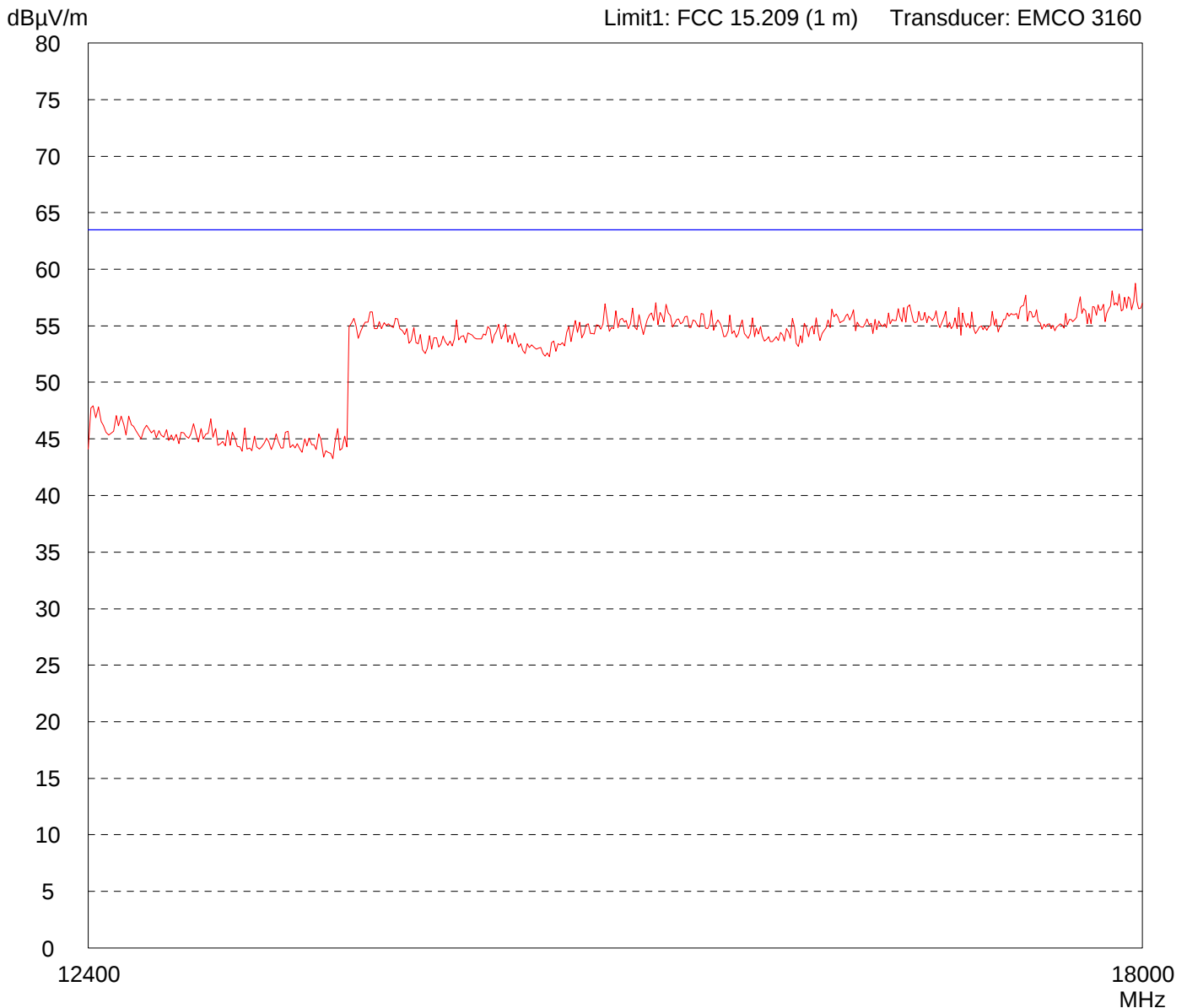


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 15 (2475 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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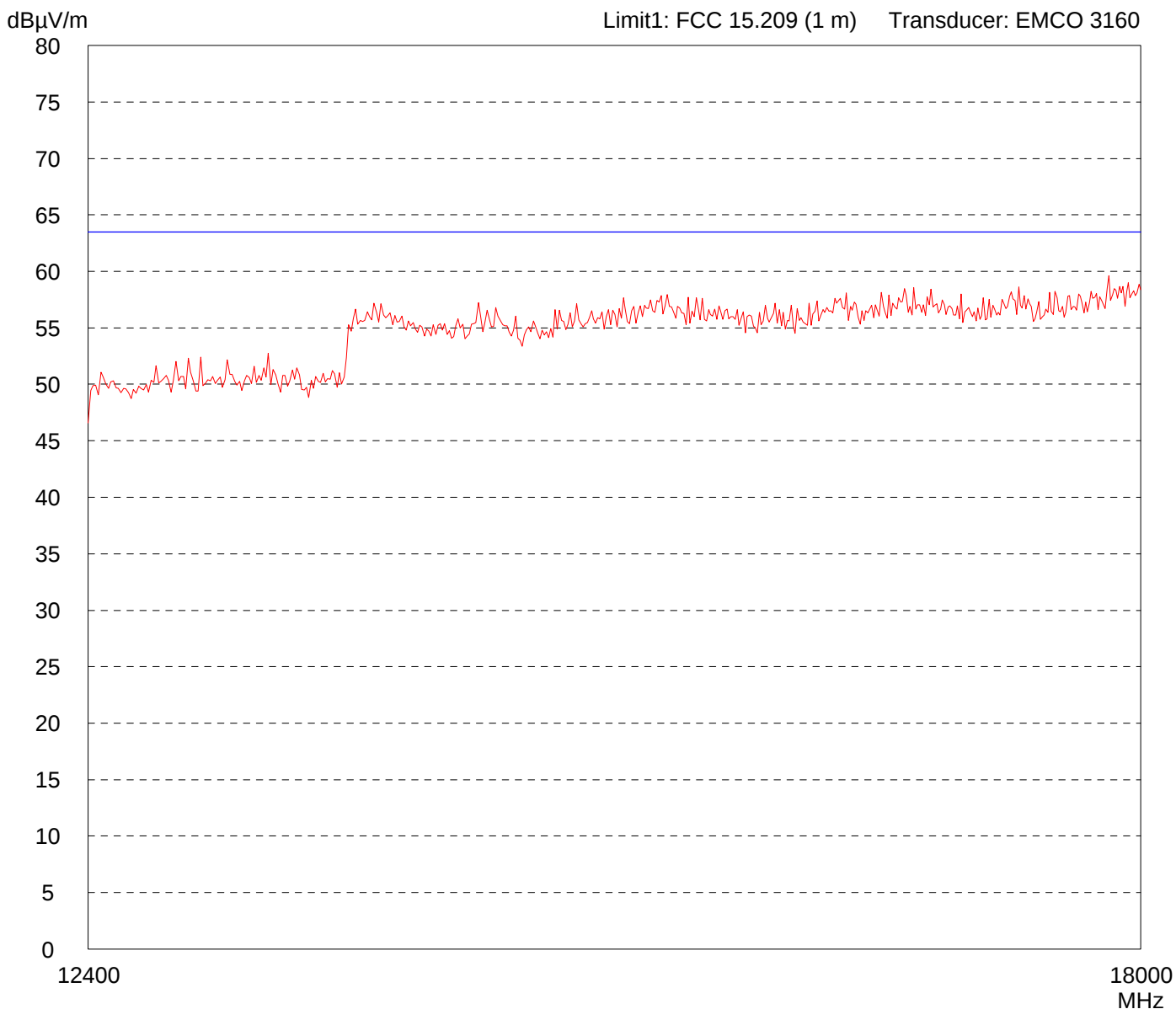


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - TX at RF Channel 15 (2475 MHz)
Serial no.: Unit B wit Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 19 Nov 2007	Operator:
Test performed: by hand	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Pass	Project file: 56109-71011-2
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Spurious emissions according to FCC Rules

Model:
ZB2430-D

Serial No.:
Unit B

Applicant:
AEROCOMM, Inc.

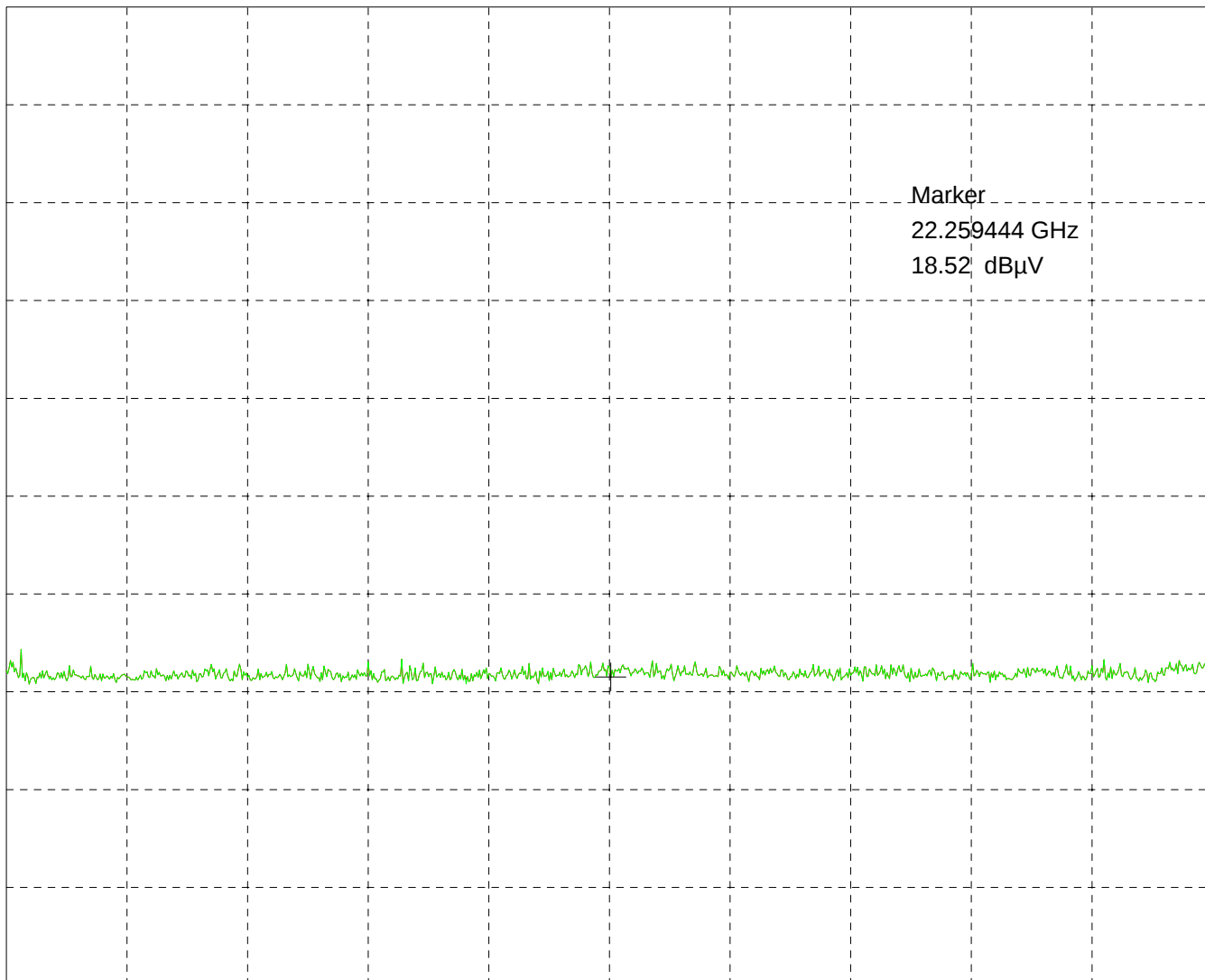
Mode:

- TX at RF Channel 15 (2475 MHz)

- Antenna: Nearson 5 dBi

Ref.Level 87 dB μ V
10 dB/Div.

ATT 0 dB



Start 18.000 GHz
RBW 100 kHz

VBW 100 kHz

Stop 26.500 GHz
SWP 2.60 s

Tested by:
Johann Roidt

Date:
11 Nov 2007

Project-No.:
56109-071011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample B (integrated antenna)

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Horizontal Polarization

Date of test:
11/02/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- RX Mode at Channel 8 (2440 MHz)

- Antenna: Centurion WIC2450-A

Detector:
Peak

List of values:

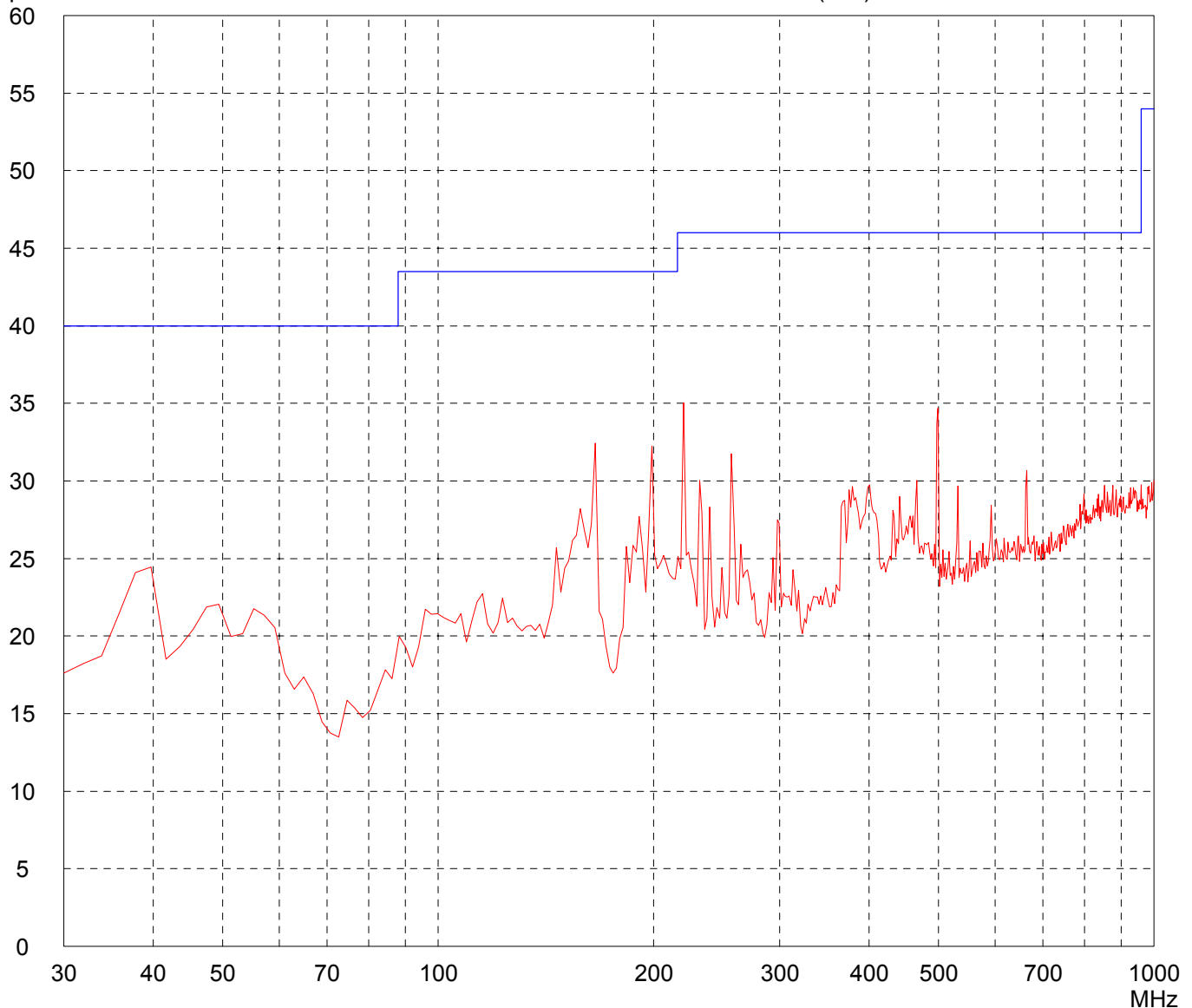
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample B (integrated antenna)

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
11/02/2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- RX Mode at Channel 8 (2440 MHz)

- Antenna: Centurion WIC2450-A

Detector:
Peak

List of values:

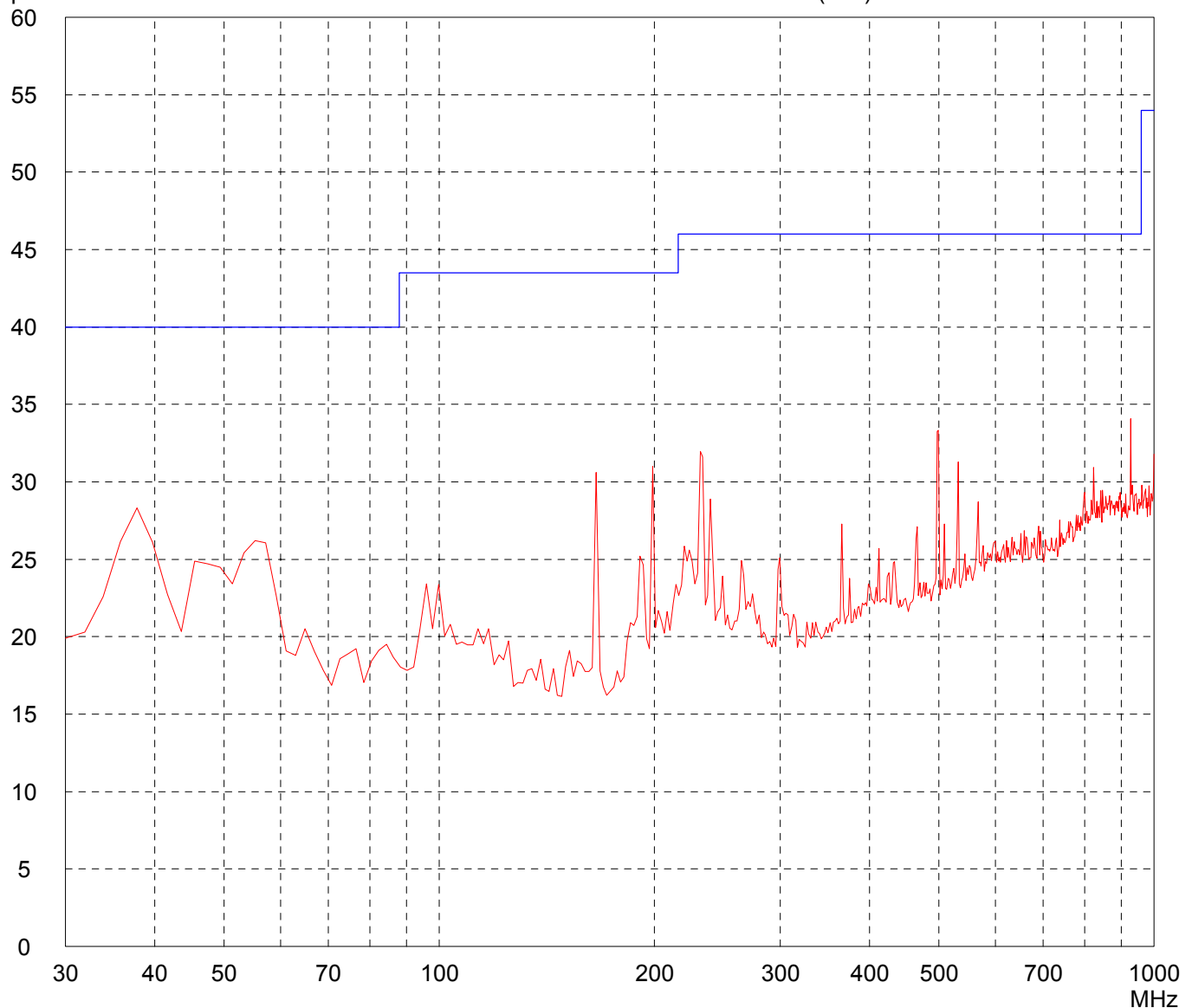
10 dB Margin

50 Subranges

dB μ V/m

Limit1: FCC 15.209 (3 m)

Transducer: VULB 9163



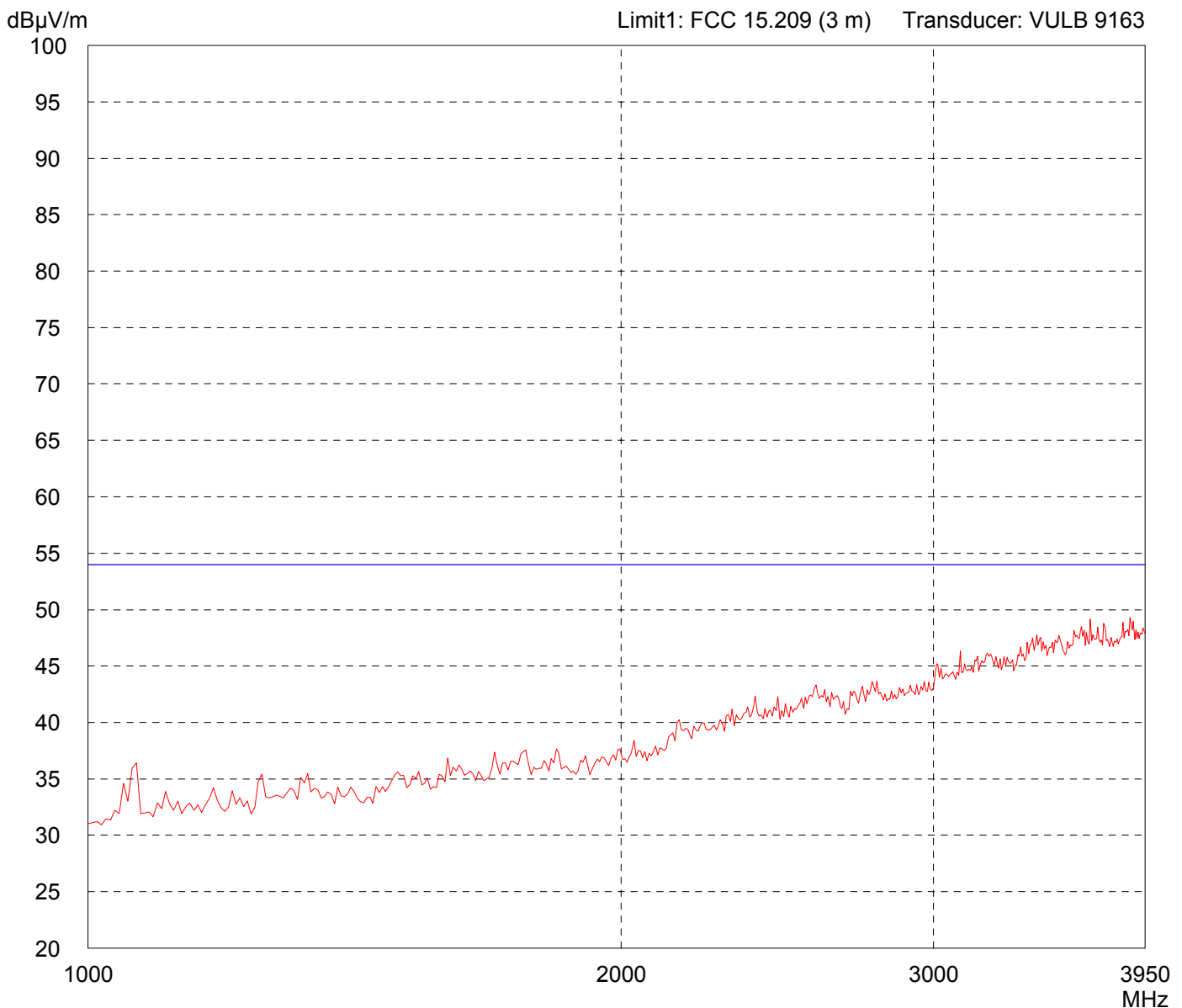
Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 1 GHz - 3.95 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - RX Mode at Channel 8 (2440 MHz) - Antenna: Centurion WIC2450-A
Serial no.: Sample B (integrated antenna)	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 11/02/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-71011-2
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Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Sample B (integrated antenna)

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

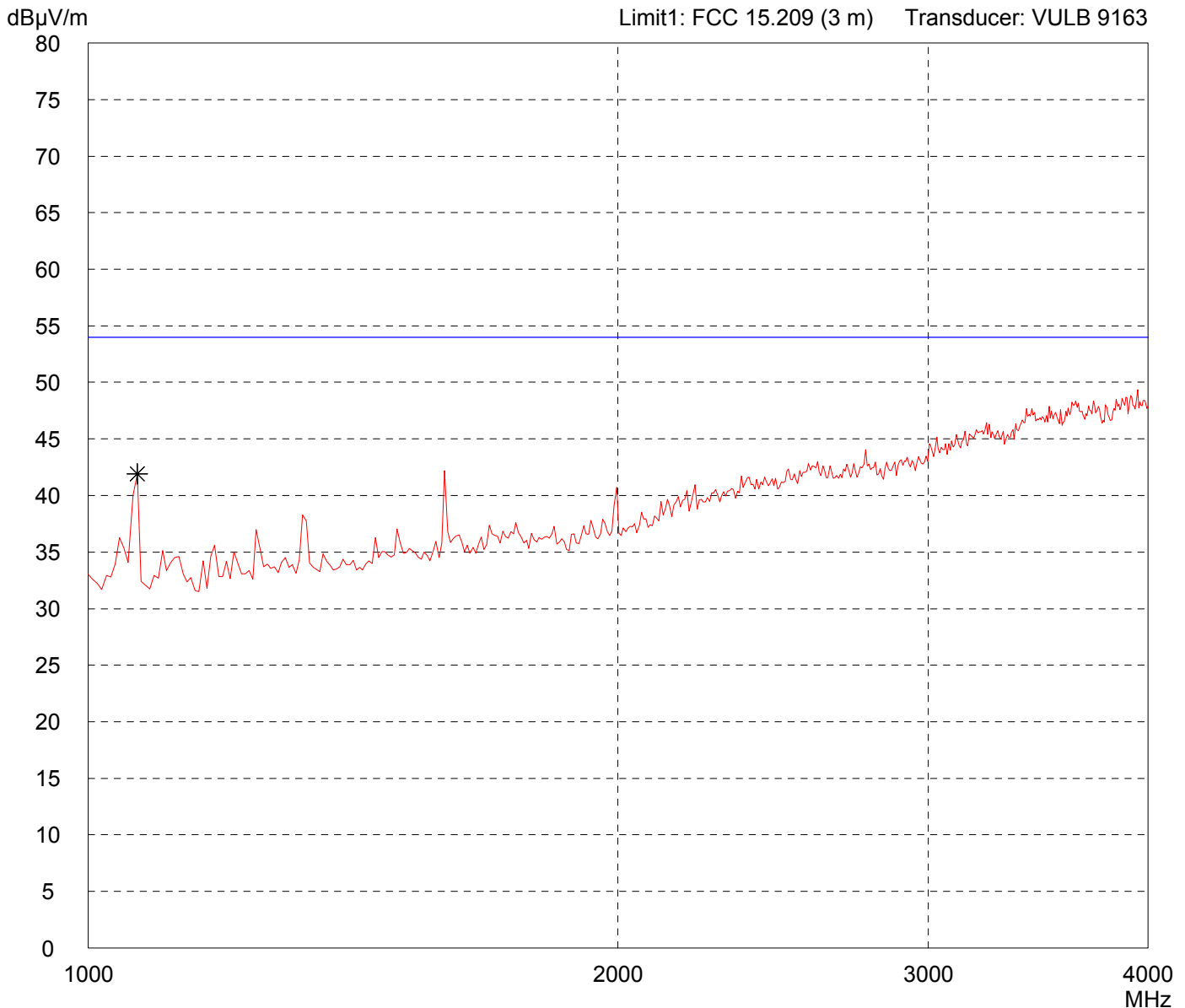
Date of test: 11/02/2007
Operator: J. Roidt

Test performed: automatically
File name: default.emi

Comment:
- RX Mode at Channel 8 (2440 MHz)
- Antenna: Centurion WIC2450-A

Detector:
Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit B with Centurion 2 dBi

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Horizontal Polarization

Date of test:
19 Nov 2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- RX at RF Channel 8 (2440 MHz)

Detector:
Peak

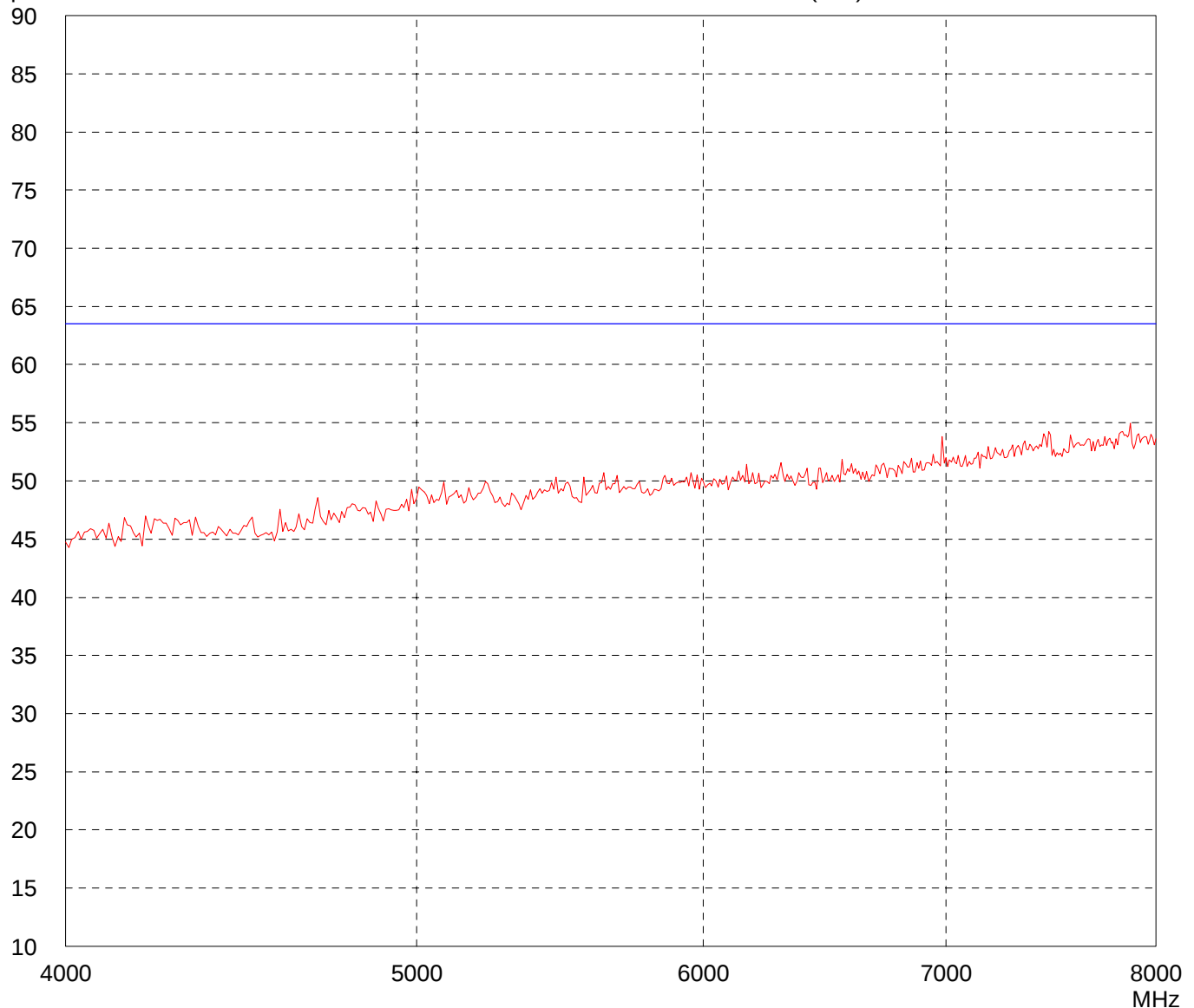
List of values:

Selected by hand

dB μ V/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



Result:
Pass

Project file:
56109-71011-2

Radiated Emission Test 4 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
ZB2430-D

Serial no.:
Unit B with Centurion 2 dBi

Applicant:
AEROCOMM, Inc.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Vertical Polarization

Date of test:
19 Nov 2007

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

Comment:

- RX at RF Channel 8 (2440 MHz)

Detector:
Peak

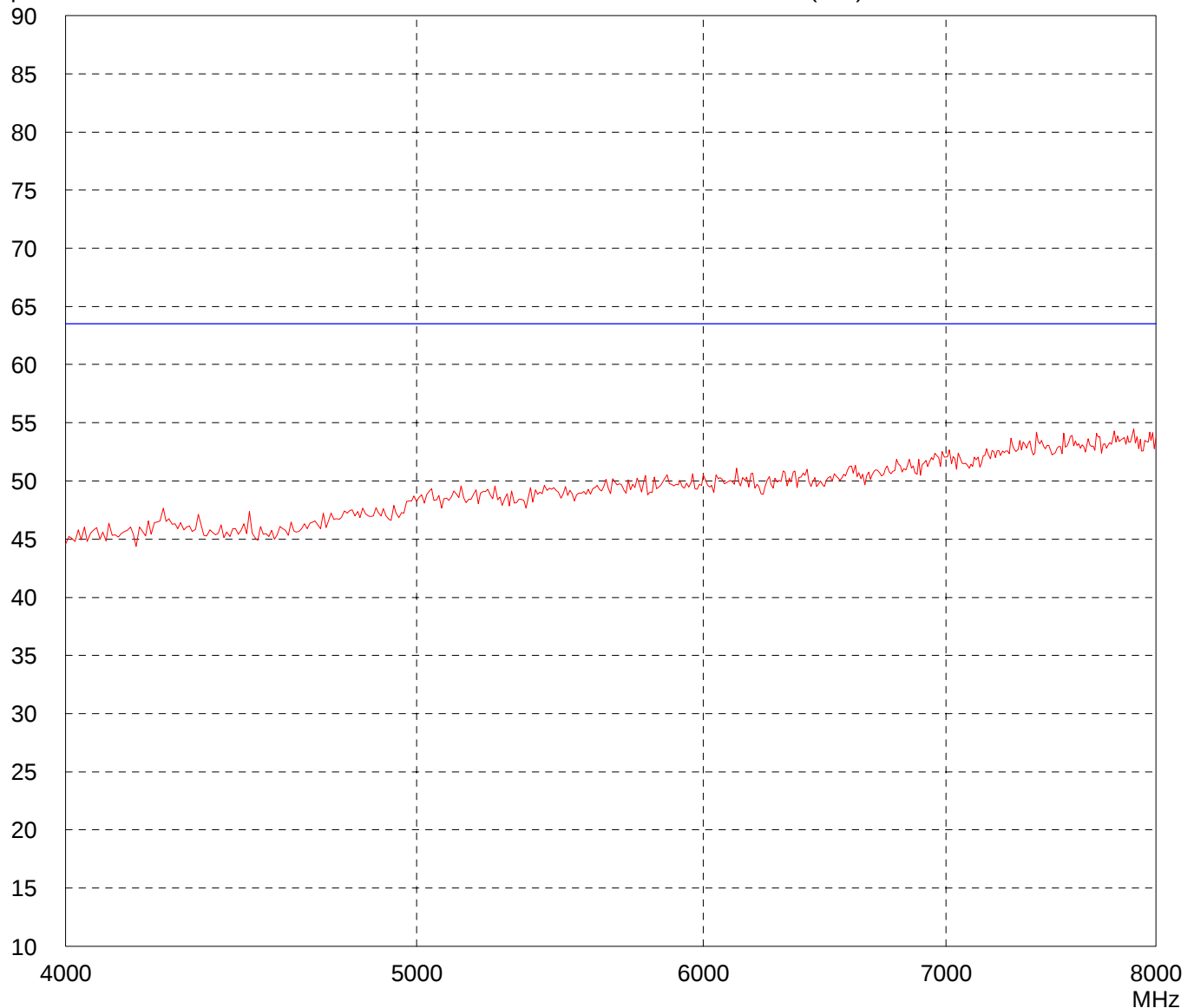
List of values:

Selected by hand

dBμV/m

Limit1: FCC 15.209 (1 m)

Transducer: EMCO 3115



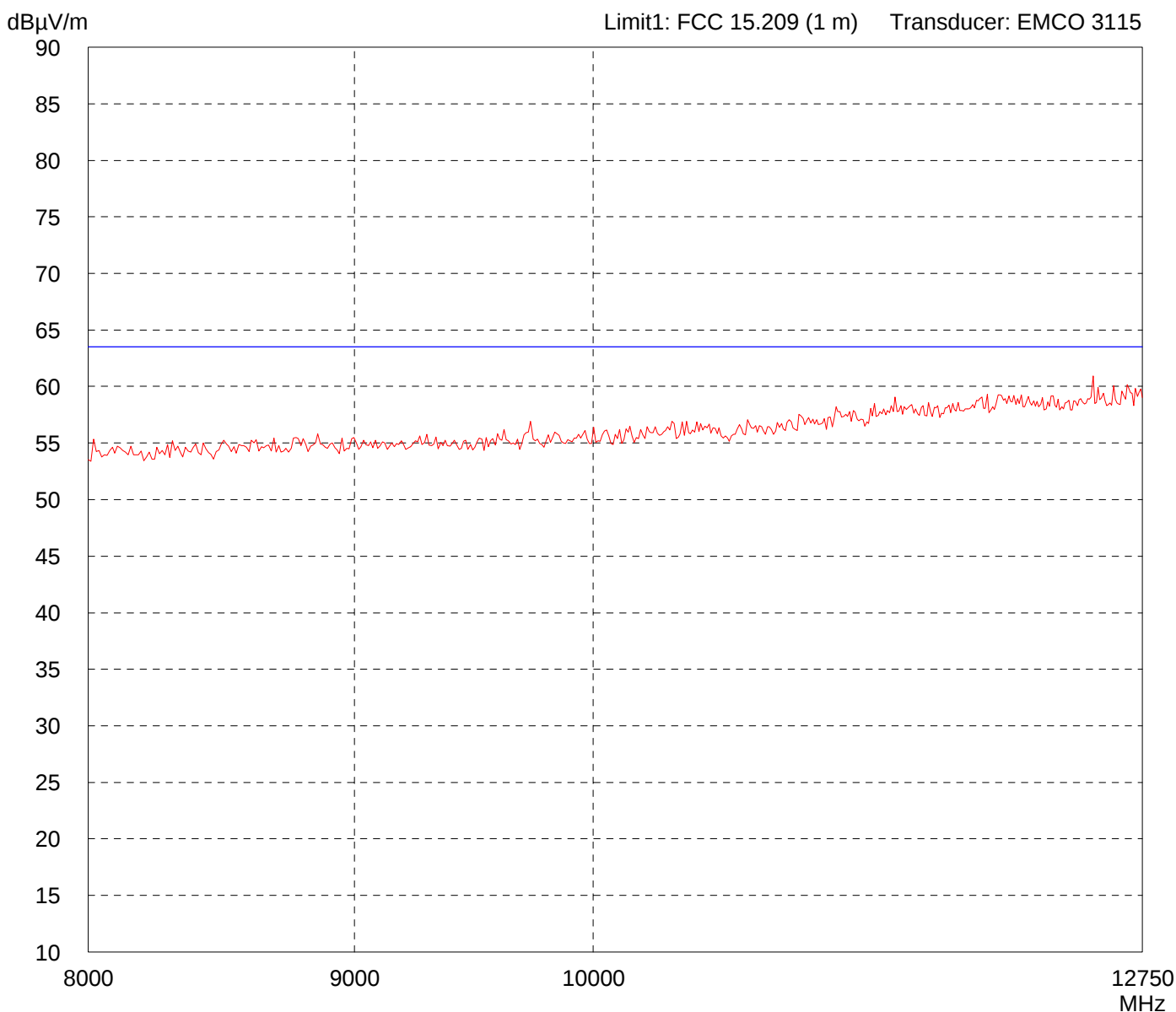
Result:
Pass

Project file:
56109-71011-2

Radiated Emission Test 8 GHz - 12.75 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - RX at RF Channel 8 (2440 MHz)
Serial no.: Unit B with Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 19 Nov 2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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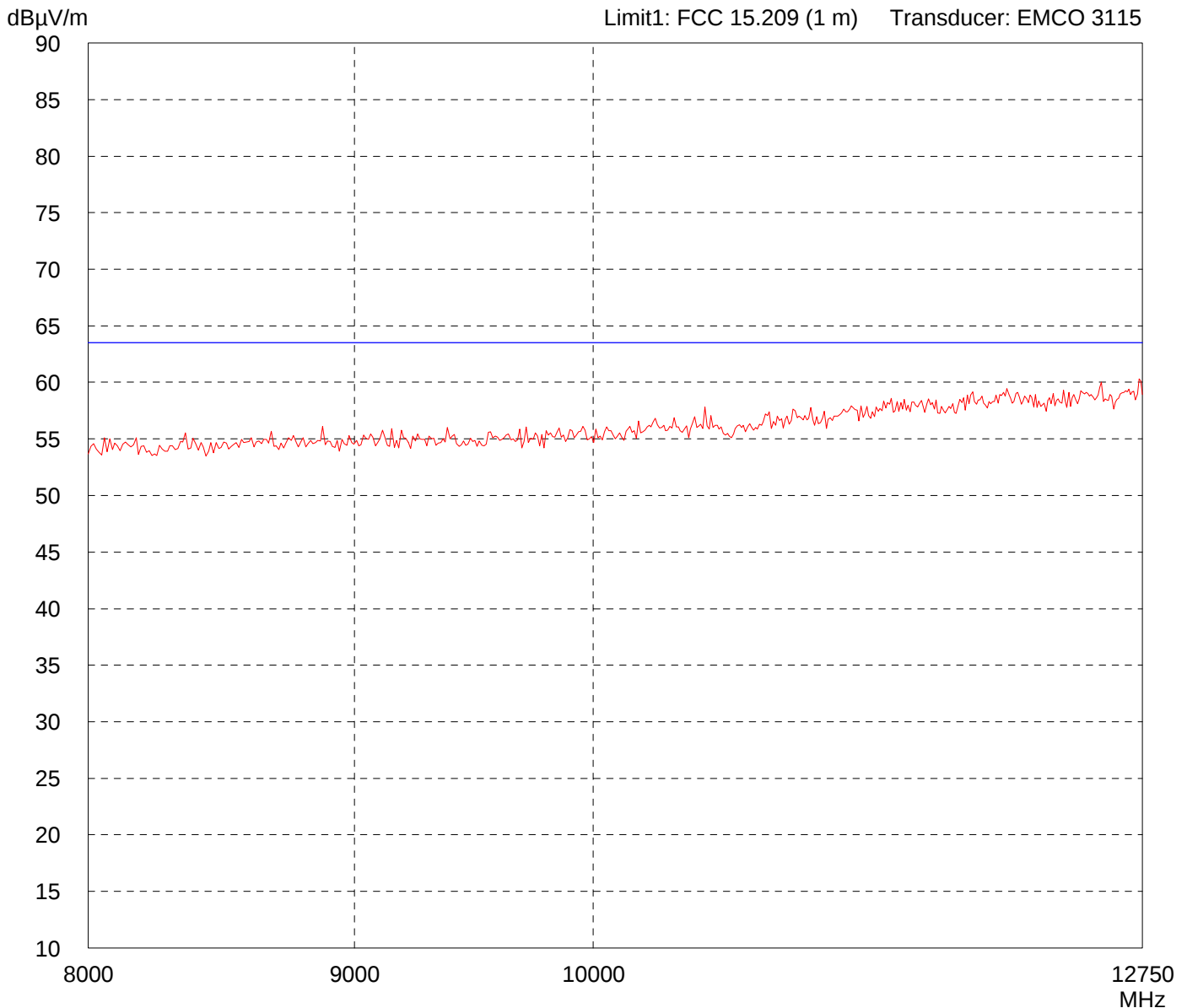


Result: Pass	Project file: 56109-71011-2
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Radiated Emission Test 8 GHz - 12.75 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: ZB2430-D	Comment: - RX at RF Channel 8 (2440 MHz)
Serial no.: Unit B with Centurion 2 dBi	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 19 Nov 2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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Result: Pass	Project file: 56109-71011-2
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