

Straubing, 13 August 2007

TEST - REPORT

No. 56109-061084-1 (Edition 4)

for

KQL-AC4X90-200 (RF Transceiver Module)

- 1. AC4490-200M**
- 2. AC4490-200M-485**
- 3. AC4490LR-200M**
Fully tested, see test report no. 56109-061084-2
- 4. AC4490LR-200M-485**
- 5. AC4790-200M**
- 6. AC4790-200M-485**
Fully tested in this test report
- 7. AC4790LR-200M**
- 8. AC4790LR-200M-485**

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	5
3.	Operation Mode of EUT.....	6
4.	Configuration	7
5.	Measuring Methods	8
5.1.	Maximum Transmitter Power	8
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
	Revision History	40
	Charts taken during testing	41

1. Administrative Data

Test item (EUT)																															
Type designation	KQL-AC4X90-200: 1. AC4490-200M 2. AC4490-200M-485 3. AC4490LR-200M Fully tested, see test report no. 56109-061084-2 4. AC4490LR-200M-485 5. AC4790-200M 6. AC4790-200M-485 Fully tested in this test report 7. AC4790LR-200M 8. AC4790LR-200M-485																														
Serial number(s):	001																														
Type of equipment:	RF Transceiver																														
Parts/accessories:	---																														
FCC-ID:	KQL-4X90200																														
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	<table><tr><th>Part #</th><th>Manufacturer</th><th>Type</th><th>Gain</th><th>Coupling</th></tr><tr><td>SG101NT-915</td><td>Nearson</td><td>Omni</td><td>5 dBi</td><td>N-Reverse Thread (Female)</td></tr><tr><td>S161AH-915R</td><td>Nearson</td><td>Dipole</td><td>2.5 dBi</td><td>RP-SMA</td></tr><tr><td>GM113</td><td>V.Torch</td><td>Omni</td><td>3.5 dBi</td><td>RP-SMA</td></tr><tr><td>Y2283A-915-10RP</td><td>Comtelco</td><td>Yagi</td><td>6 dBd</td><td>RP-SMA</td></tr><tr><td>ANT-DB1-RMS</td><td>Antenna Factor</td><td>Mono pole</td><td>3 dBi</td><td>RP-SMA</td></tr></table>	Part #	Manufacturer	Type	Gain	Coupling	SG101NT-915	Nearson	Omni	5 dBi	N-Reverse Thread (Female)	S161AH-915R	Nearson	Dipole	2.5 dBi	RP-SMA	GM113	V.Torch	Omni	3.5 dBi	RP-SMA	Y2283A-915-10RP	Comtelco	Yagi	6 dBd	RP-SMA	ANT-DB1-RMS	Antenna Factor	Mono pole	3 dBi	RP-SMA
Part #	Manufacturer	Type	Gain	Coupling																											
SG101NT-915	Nearson	Omni	5 dBi	N-Reverse Thread (Female)																											
S161AH-915R	Nearson	Dipole	2.5 dBi	RP-SMA																											
GM113	V.Torch	Omni	3.5 dBi	RP-SMA																											
Y2283A-915-10RP	Comtelco	Yagi	6 dBd	RP-SMA																											
ANT-DB1-RMS	Antenna Factor	Mono pole	3 dBi	RP-SMA																											
Power supply	3.3 - 5.5 V DC																														

Applicant: (full address)	AEROCOMM, Inc. Thompson Avenue Lenexa, KS 66219, USA
Contract identification:	---
Contact person:	Daniel Waters
Manufacturer:	Applicant
Application details	
Receipt of EUT:	12 December 2006
Date of test:	December 2006
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 TX tests were performed on lowest, middle and highest RF channel. RX mode was
tested on the middle channel.

Low channel:	902.20 MHz
Middle channel:	915.30 MHz
Highest Channel:	927.40 MHz

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

- AEROCOMM Test Board
- AC Adapter
- Notebook PC Dell Latitude D600



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

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)

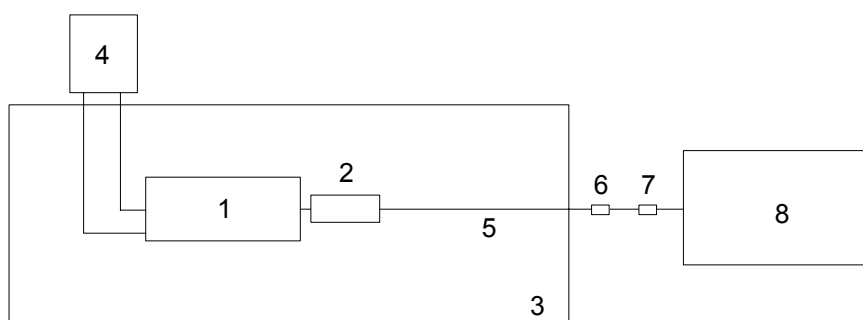


Figure 1: Measurement setup for testing on antenna connector

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

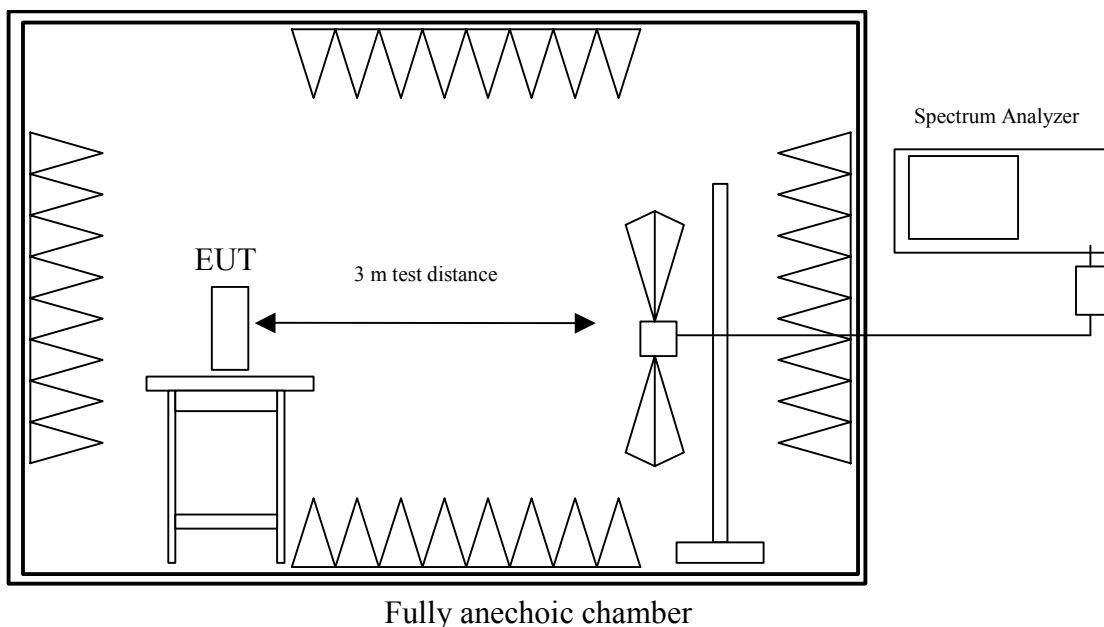
5.2. Radiated Emissions 30 MHz – 1 GHz

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

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

5.3. Radiated Emission > 1 GHz

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

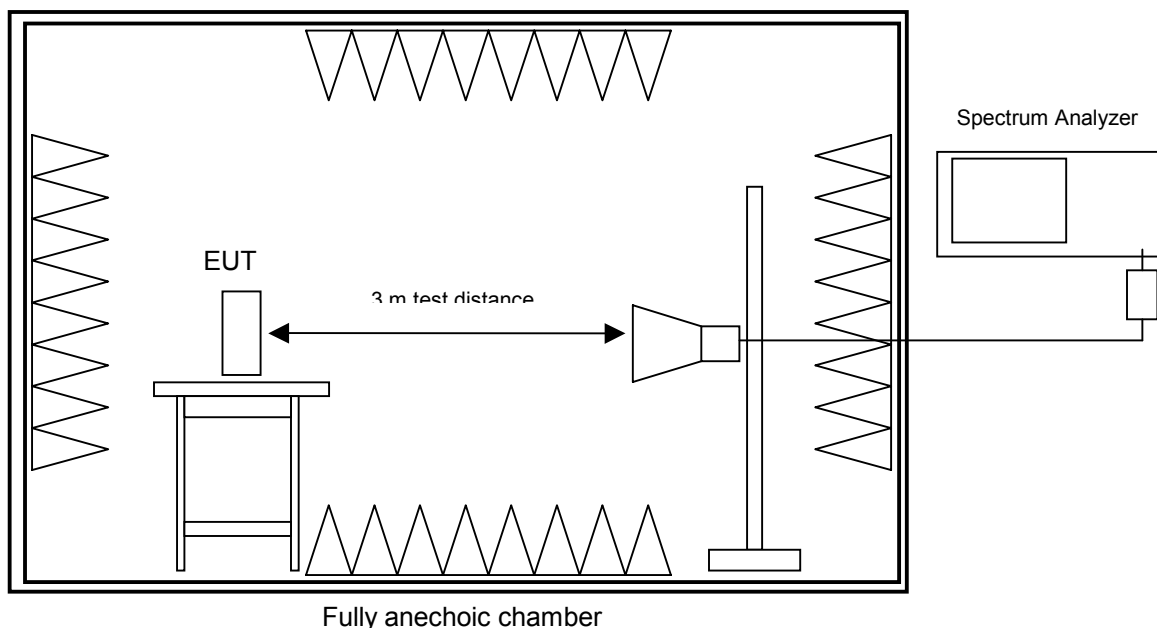
Measurement Procedure:

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).

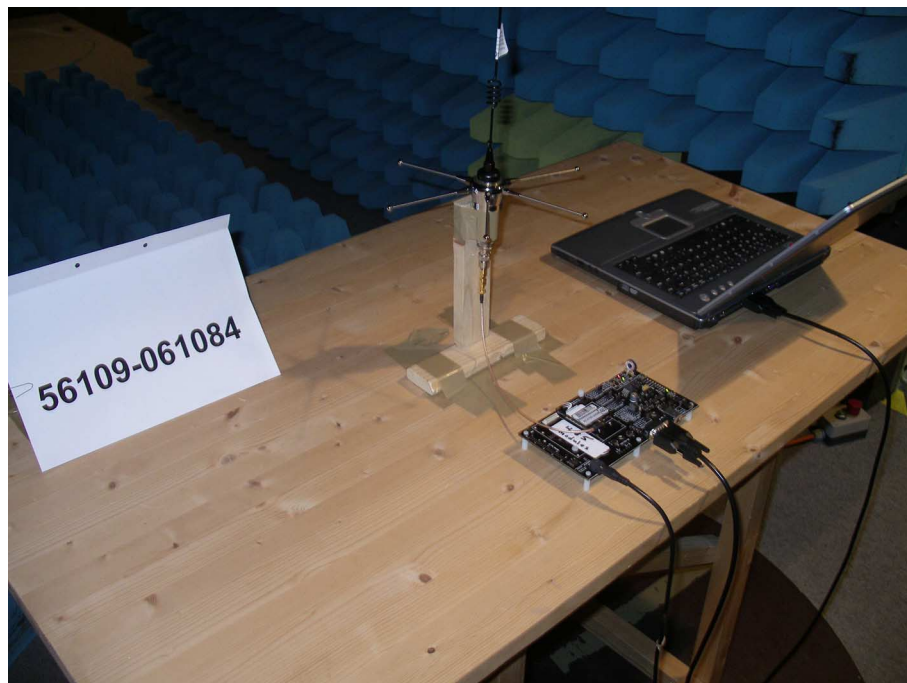
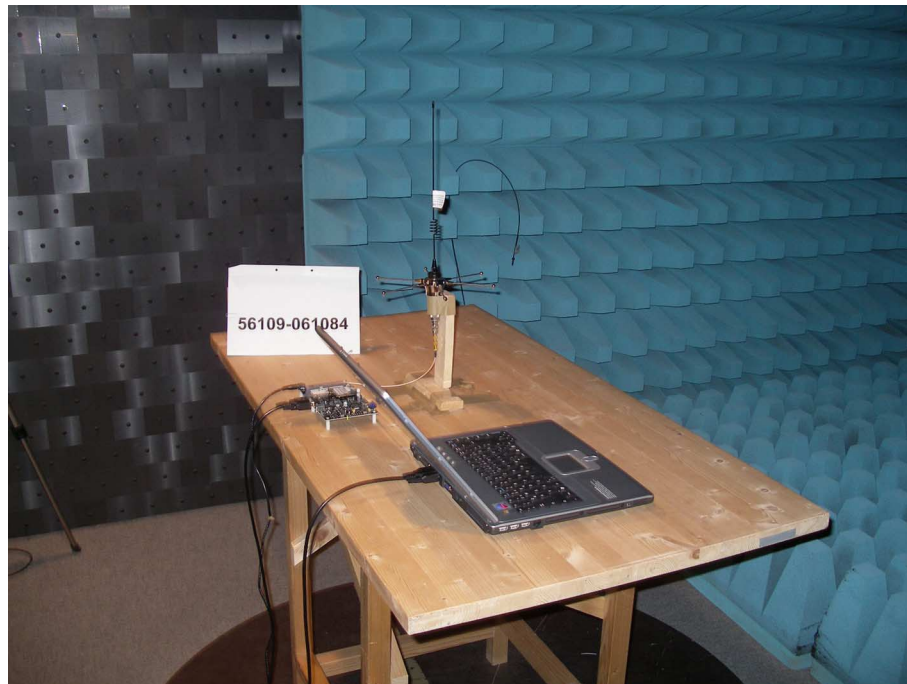


Test instruments used:

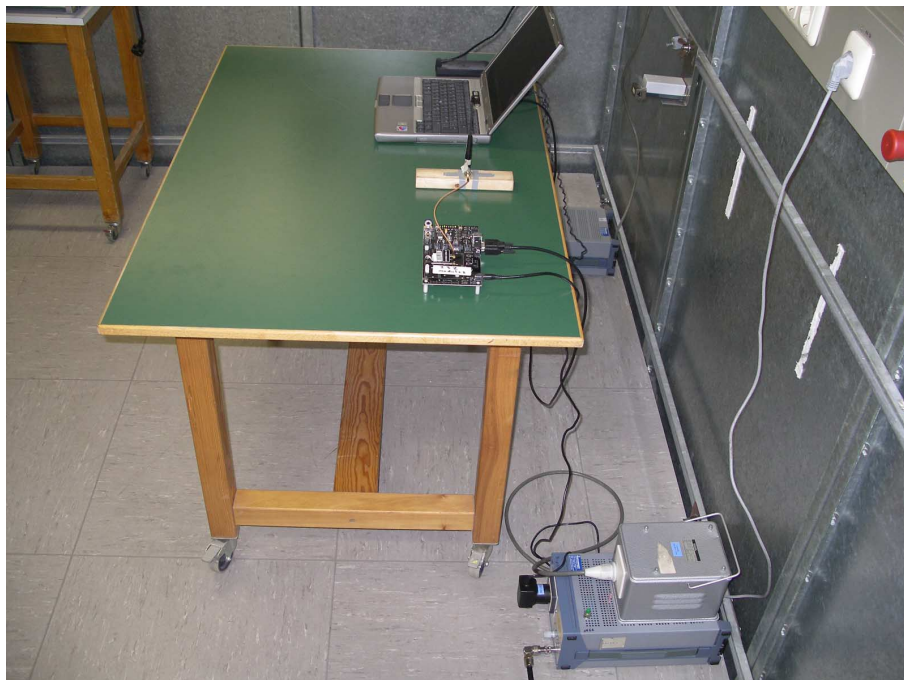
No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
143	Log. periodic antenna	3147	9112-1054	EMCO
145	Horn antenna	3115	9508-4553	EMCO
146	Horn antenna set	3160-03/-09	9112-1003	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
115	Preamplifier 8-18 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

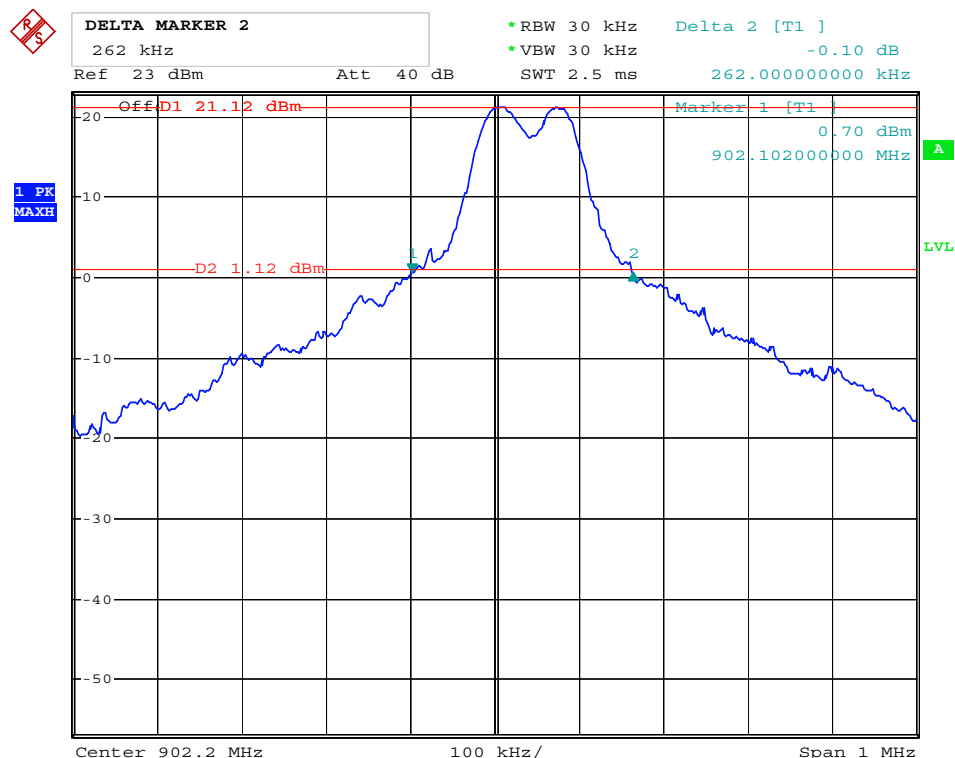
FCC Part 15 Subpart C			
Section(s):	Test	Page(s)	Result
	Transmitter:		
15.205	Restricted Bands	---	Pass
15.247 (a) (1)	Channel Bandwidth	18	Pass
15.247 (a) (1)	Hopping channel separation	20	Pass
15.247 (a) (1) (i)	Number of Hopping Frequencies used	22	Pass
15.247 (a) (1) (i)	Dwell Time of each frequency within a 10 Second Period of Time	24	Pass
15.247 (b) (2)	Maximum Peak Output Power	27	Pass
15.247 (c)	Spurious emissions - conducted	29	Pass
15.205 15.209	Radiated emission 9 kHz - 30 MHz	32	Pass
15.247 © 15.209	Spurious emissions - radiated	33	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	35	
2.1093	RF Exposure Requirement	37	Pass
15.207	Conducted AC Powerline Emissions	37	Pass
	Receiver		
15.111	Spurious emissions on antenna port	---	N/A
15.109	Radiated Emissions	38	Pass

Channel Bandwidth

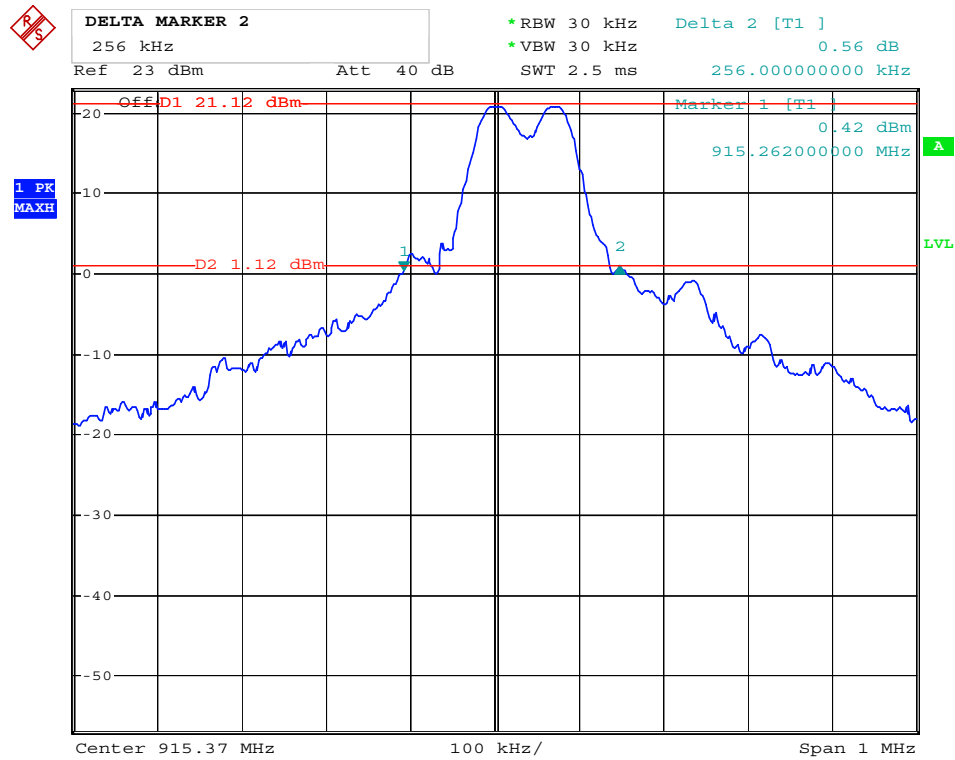
Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4
Limit:	The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

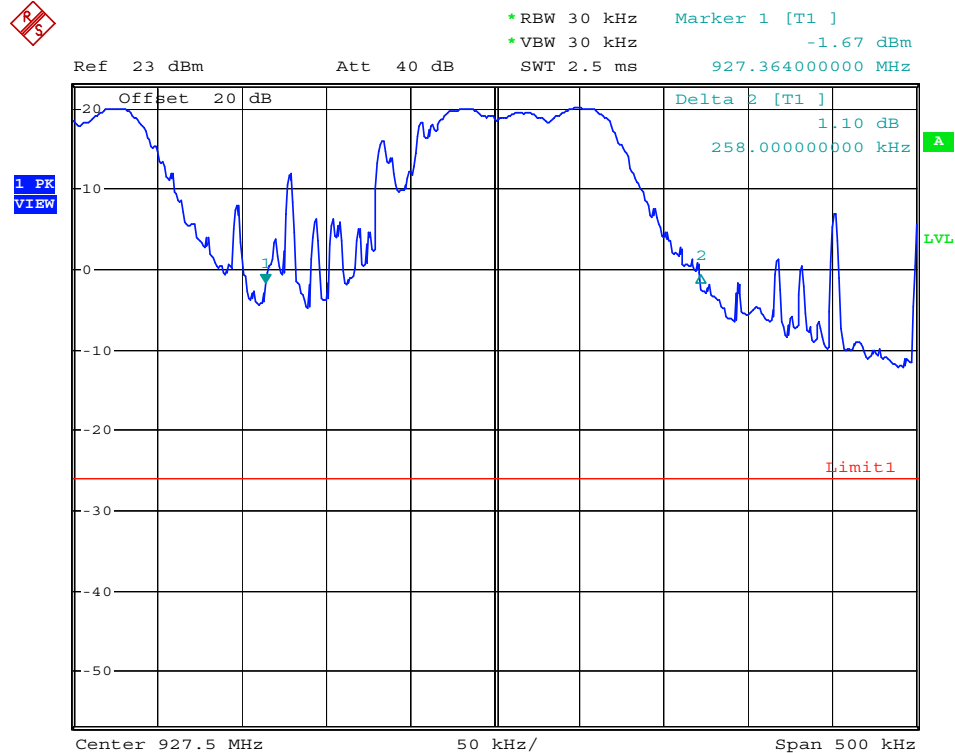
Frequency	Channel Bandwidth in kHz	Standard	Result
Low (902.2 MHz)	262 kHz	≤500 kHz	Pass
Middle 915,3 MHz	256 kHz	≤500 kHz	Pass
High 927.4 MHz	258 kHz	≤500 kHz	Pass



Date: 3.JAN.2007 12:30:58



Date: 3.JAN.2007 12:32:31



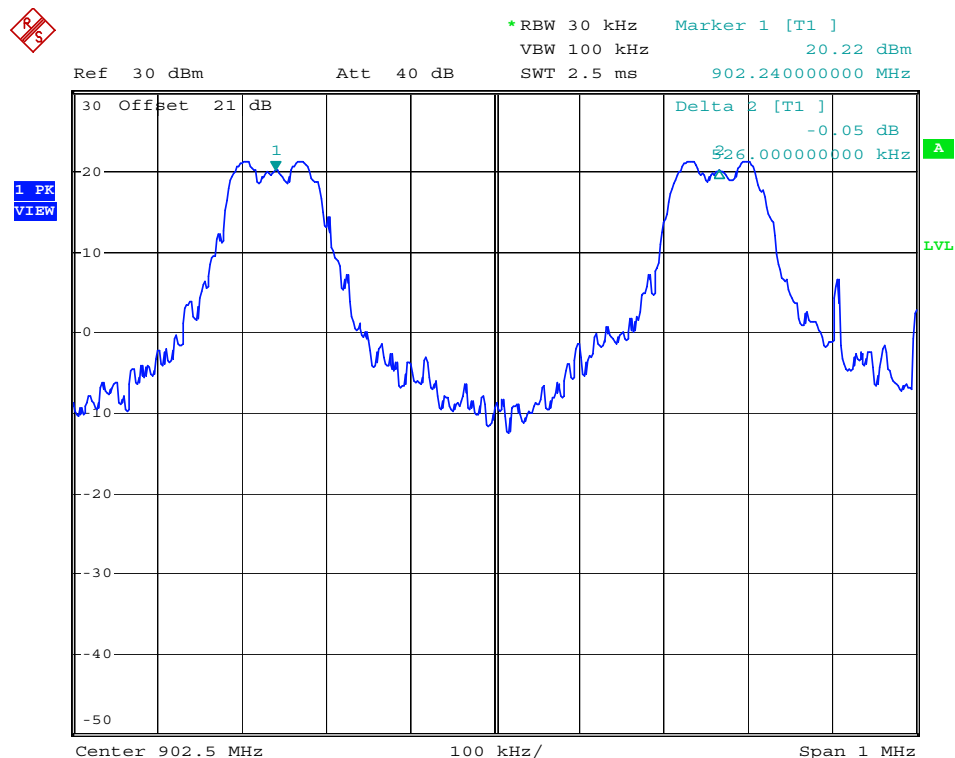
Date: 27.JUN.2007 21:24:09

Hopping Channel Separation

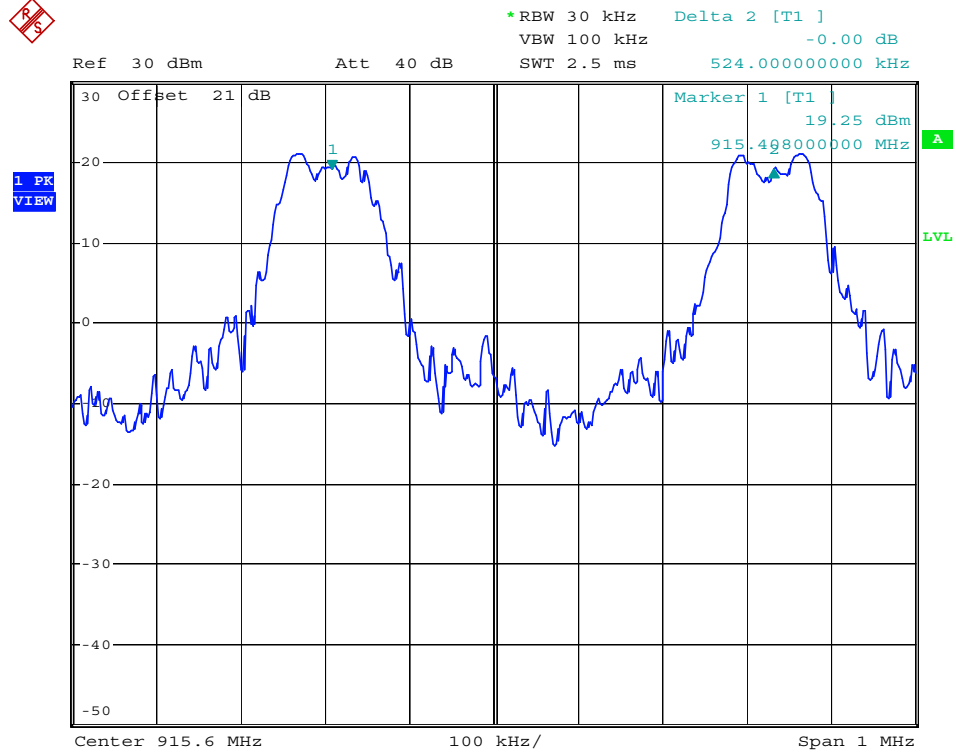
Rules and Specifications:	15.247 (a) (1)
Guide:	ANSI C63.4
Limit:	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth, whichever is greater.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

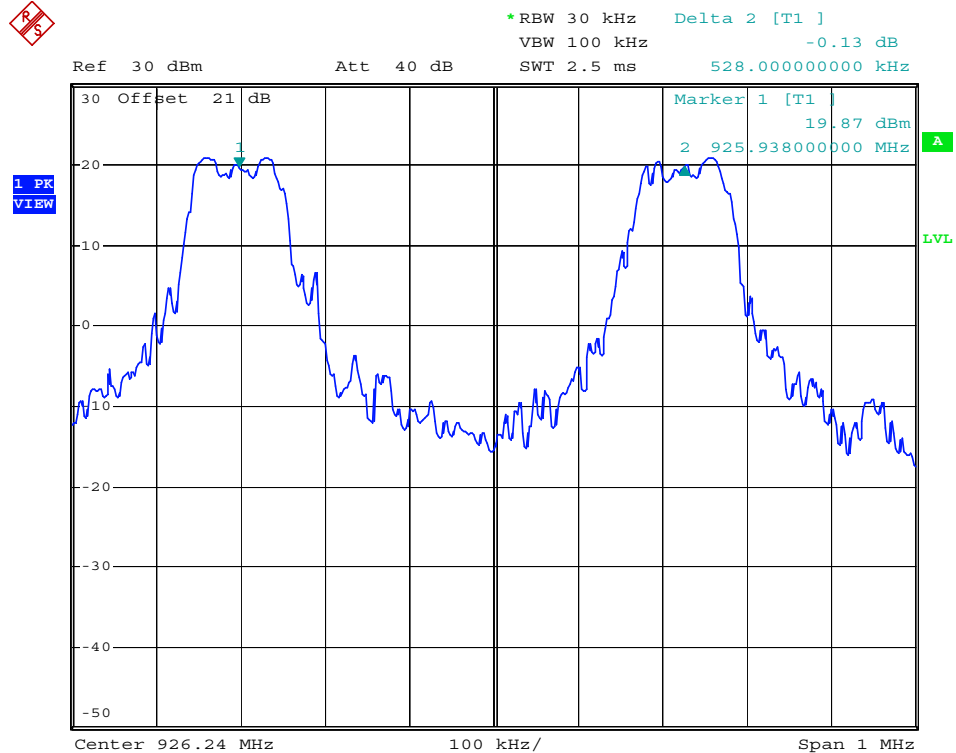
Channel Frequency	Measured	Required	Result
902.2. MHz	526 kHz	> 262 kHz	Pass
915.3 MHz	524 kHz	> 256 kHz	Pass
927.4 MHz	528 kHz	> 258 kHz	Pass



Date: 13.JUN.2007 20:35:10



Date: 13.JUN.2007 20:36:44



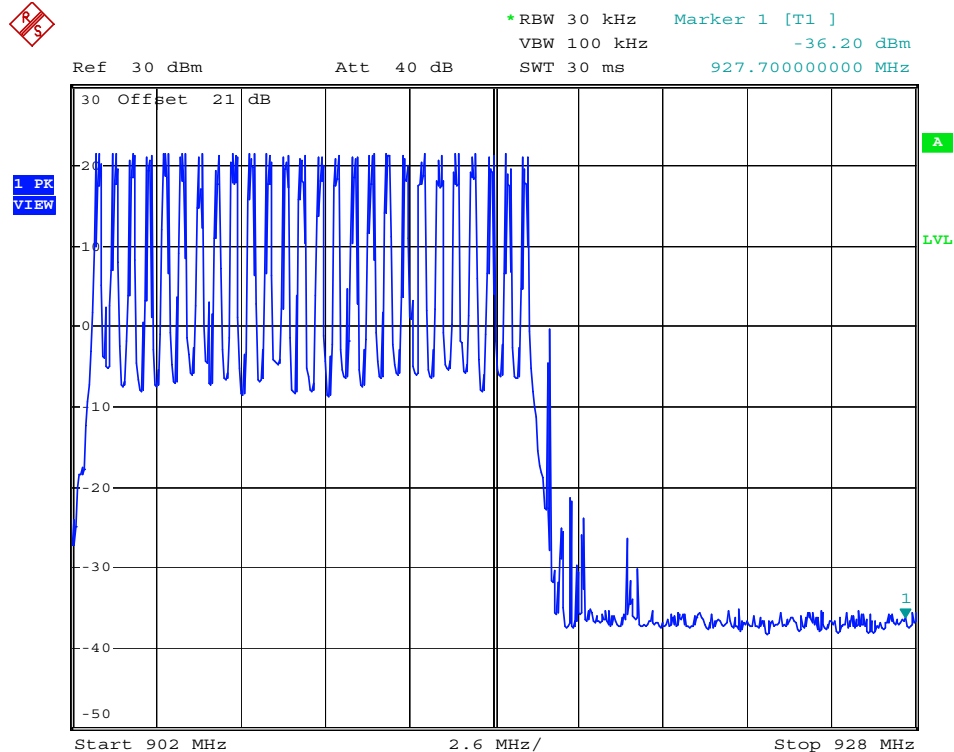
Date: 13.JUN.2007 20:39:20

Number of Hopping Frequencies used

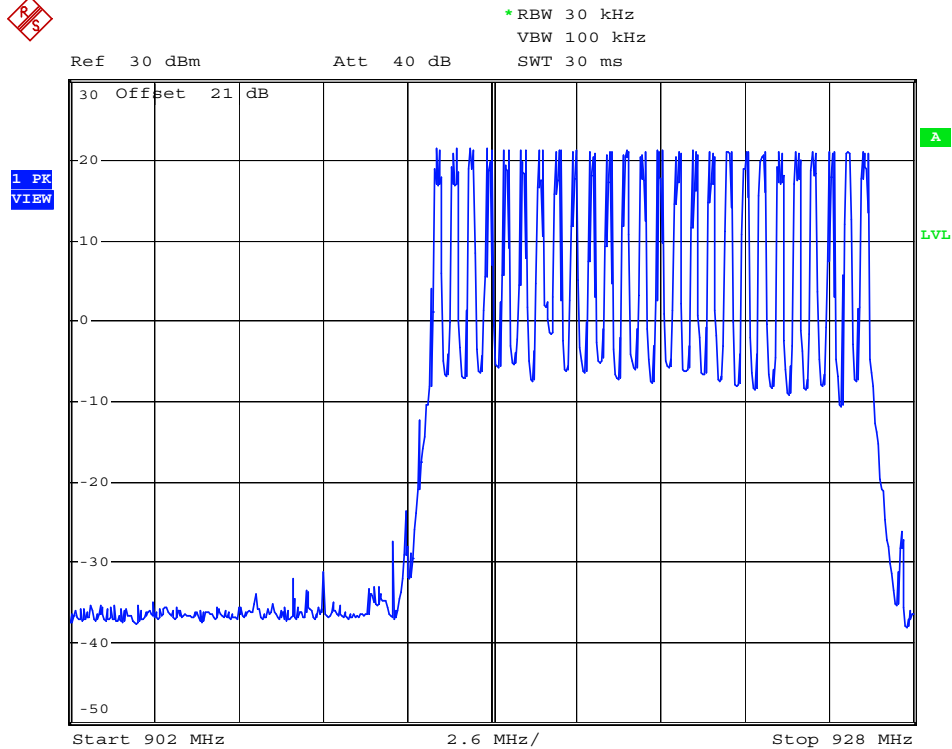
Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4
Limit:	Frequency hopping systems in the 902 - 928 MHz band shall use at least 25 non-overlapping channels.

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	12 June 2007

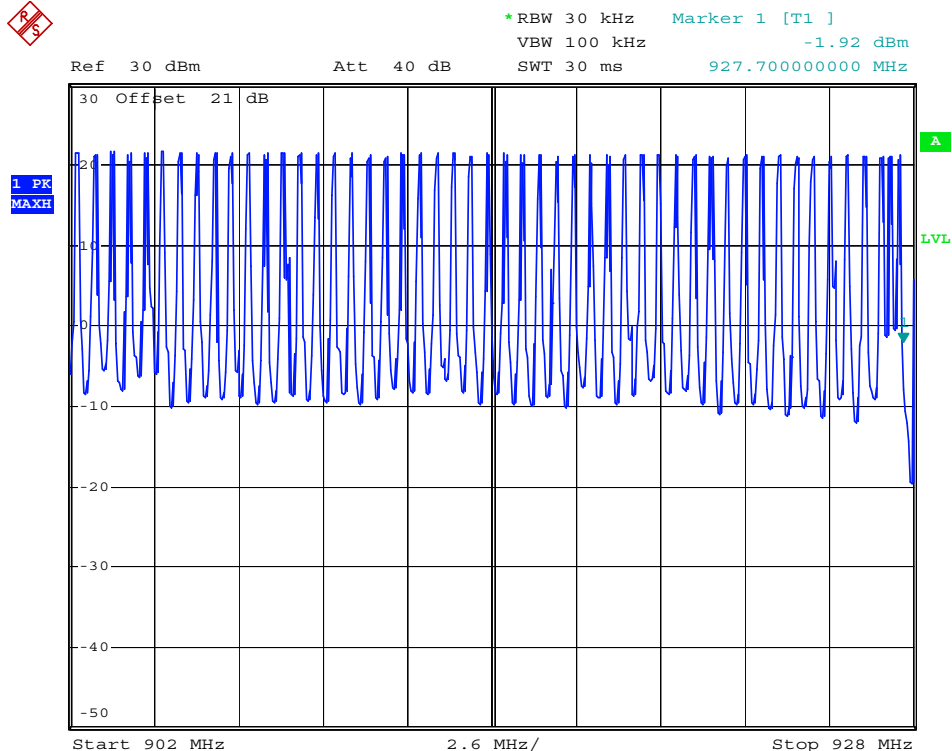
Number of Hopping Frequencies	Measured	Required	Result
Low 26 Hop Set	26	25	Pass
High 26 Hop Set	26	25	Pass
50 Hop Set	50	25	Pass



Date: 13.JUN.2007 20:17:09



Date: 13.JUN.2007 20:22:35



Date: 13.JUN.2007 20:11:44

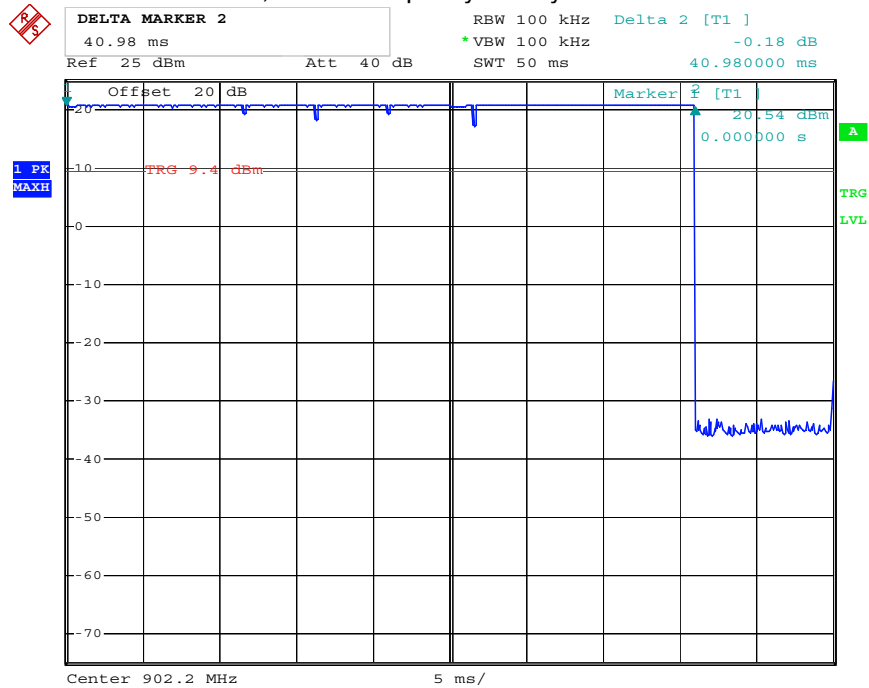
Time Occupancy on any Channel

Rules and Specifications:	15.247 (a) (1) (i)
Guide:	ANSI C63.4
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.

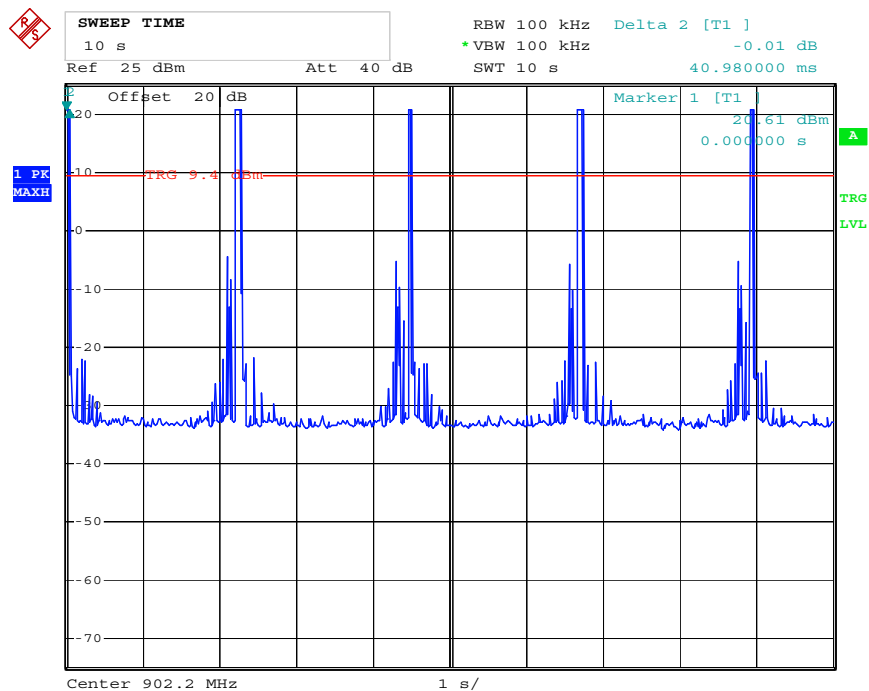
Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	03 January 2007

Time occupancy	Measured	Required	Result
	5 x 40.98 ms = 0.2049 s within a 10 second period	< 0.4 seconds within a 10 second period	Pass

AC4790-200M-485, Time Occupancy on any Channel - Low channel

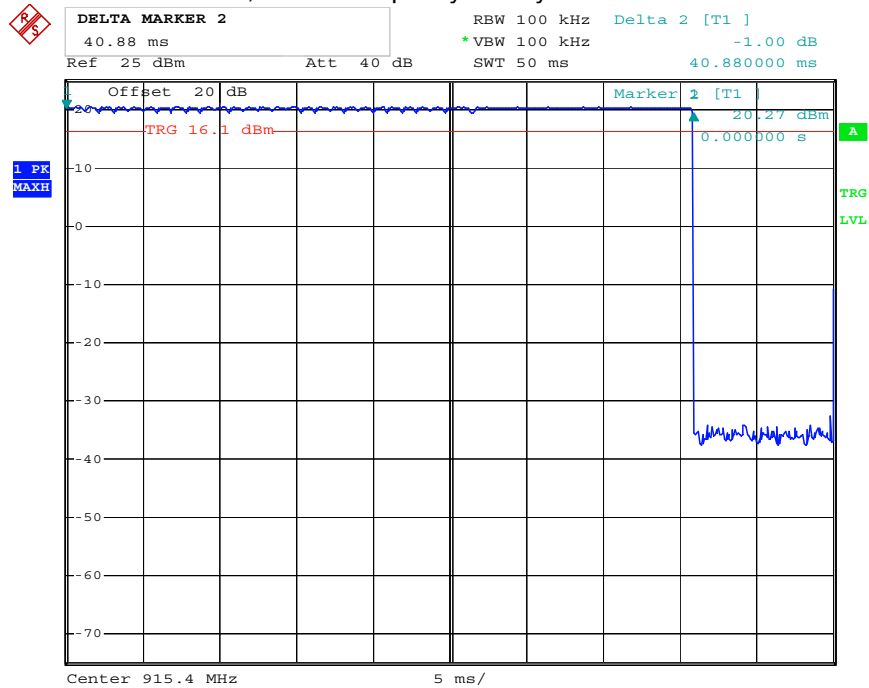


Date: 27.JUN.2007 20:43:33

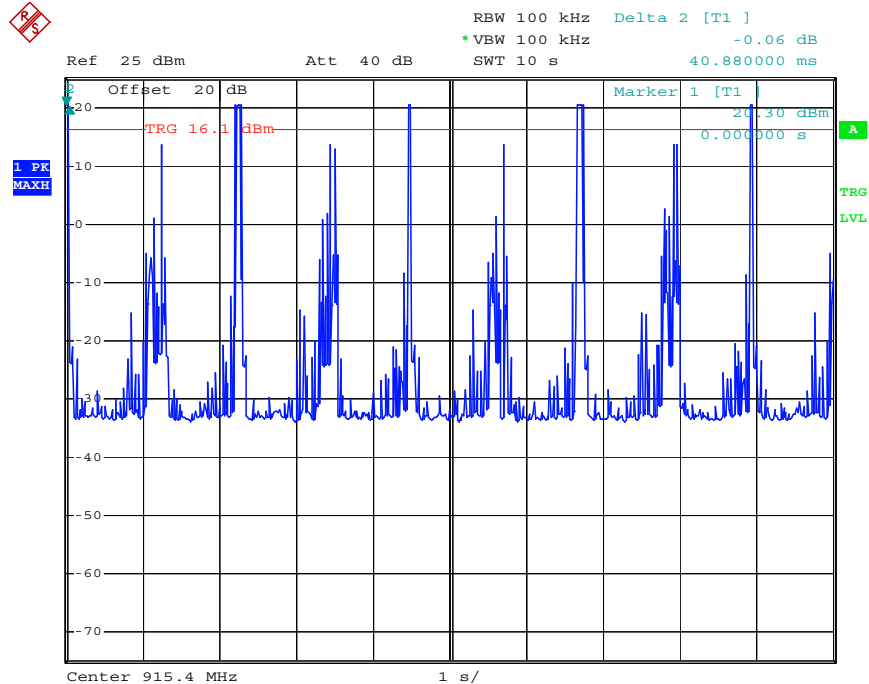


Date: 27.JUN.2007 20:44:46

AC4790-200M-485, Time Occupancy on any Channel - Middle channel

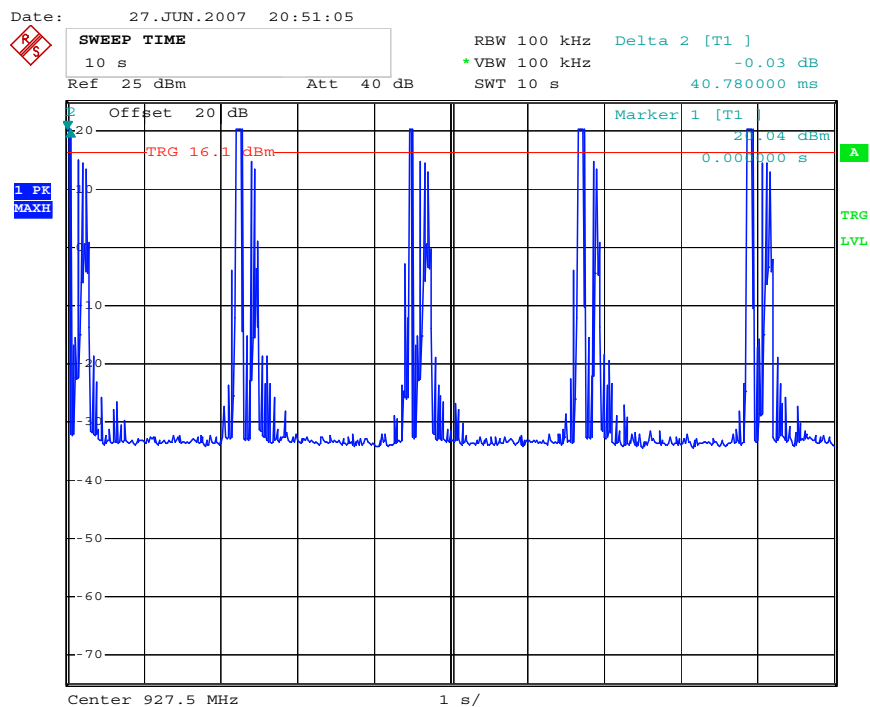
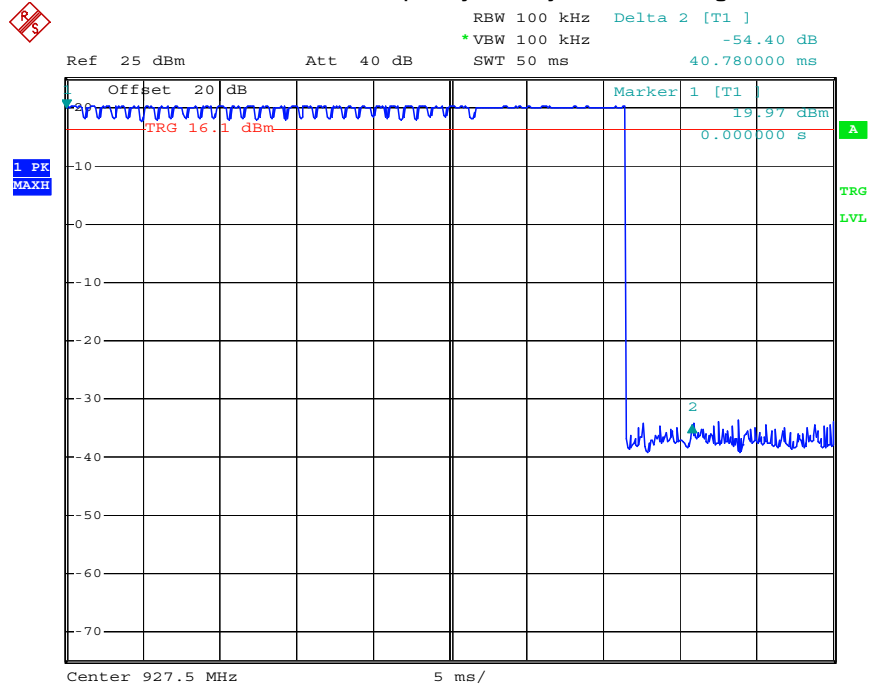


Date: 27.JUN.2007 20:47:11



Date: 27.JUN.2007 20:49:05

AC4790-200M-485, Time Occupancy on any Channel - High channel



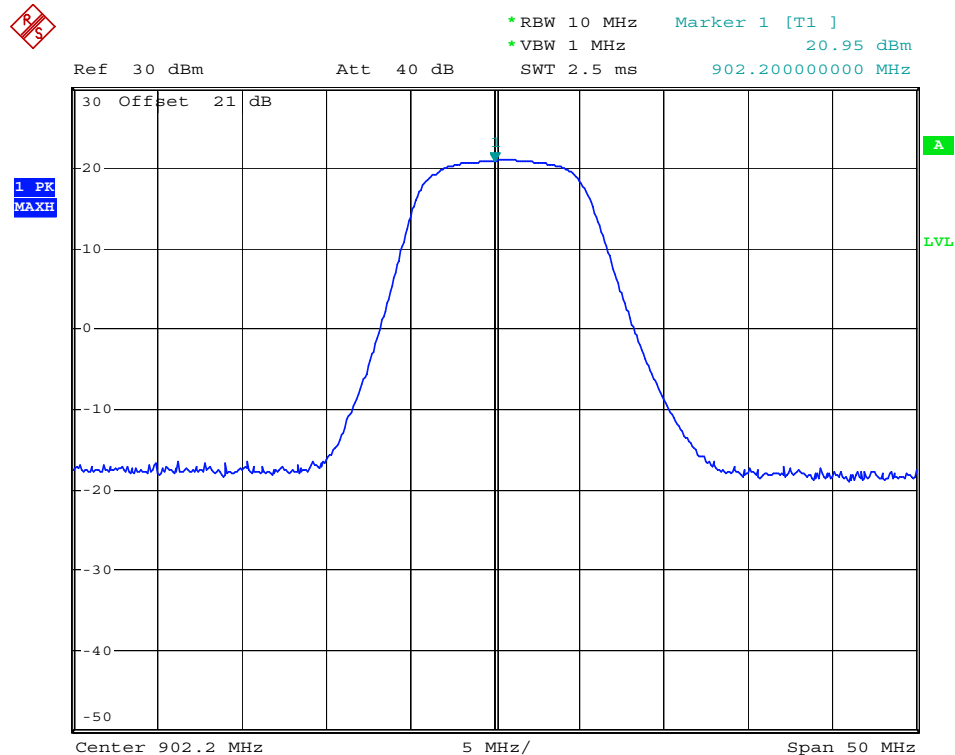
Date: 27.JUN.2007 20:52:29

Carrier Power Measurement

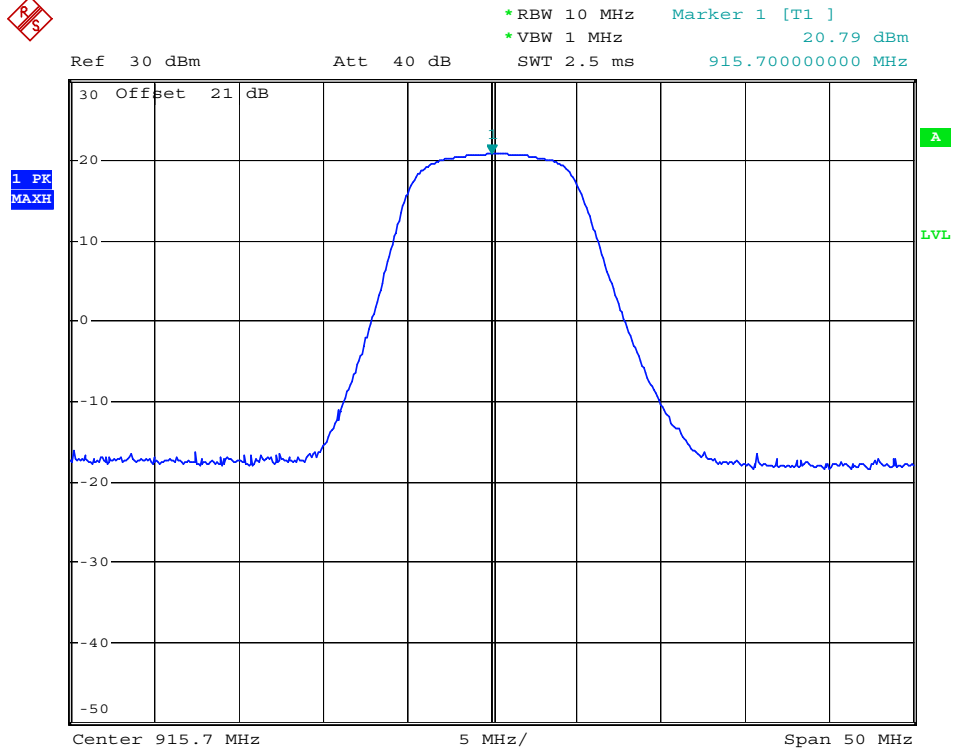
Rules and Specifications:	15.247 (b) (2)
Guide:	ANSI C63.4
Limit:	For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels;

Test Site:	Radio Lab.
Distance:	Conducted Measurement
Date of Test:	29 January 2007

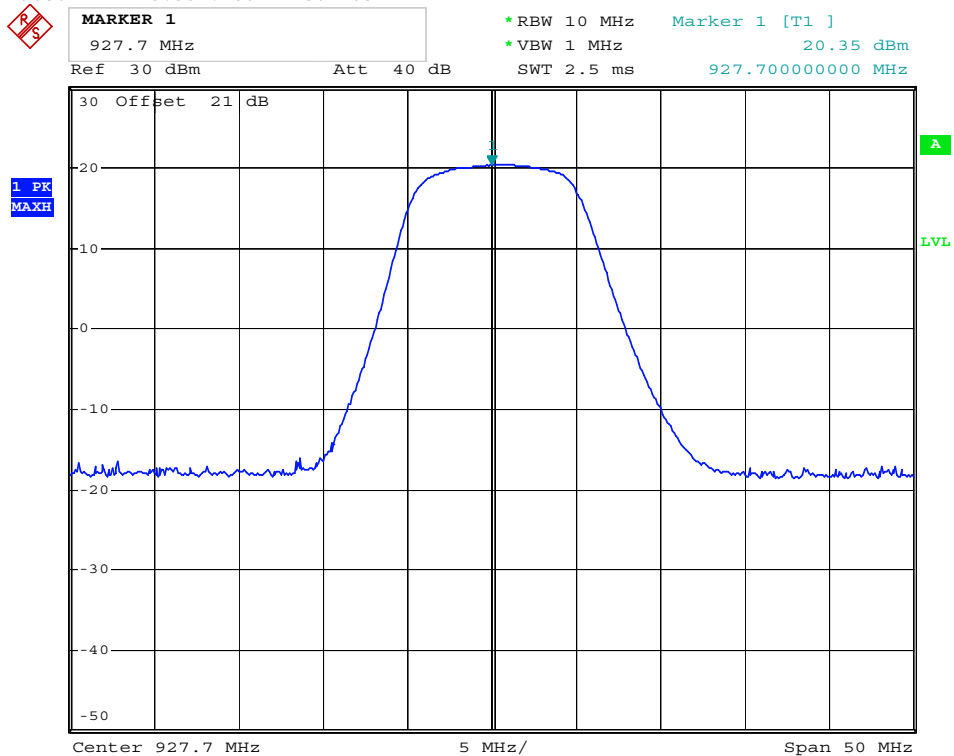
Frequency	Output Power in dBm	Output Power in W	Standard	Result
Low (902.2 MHz)	21.01		$\leq 1.00\text{W}$	Pass
Middle 915,4 MHz	20.78		$\leq 1.00\text{W}$	Pass
High 927.5 MHz	20.35		$\leq 1.00\text{W}$	Pass



Date: 13.JUN.2007 18:12:46



Date: 13.JUN.2007 18:11:51



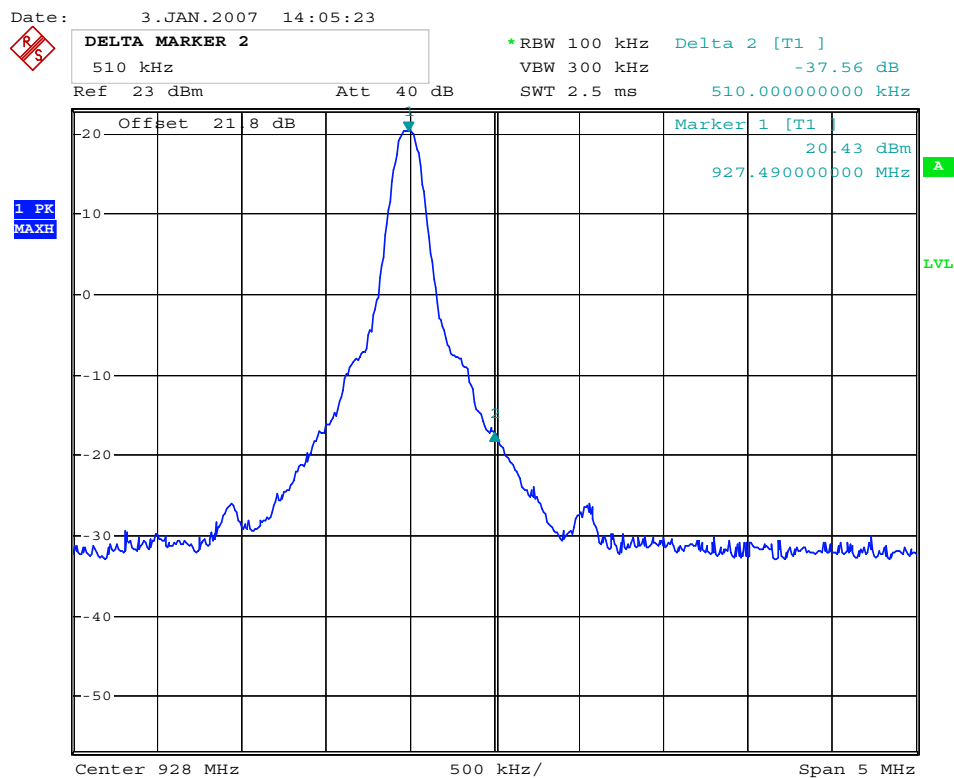
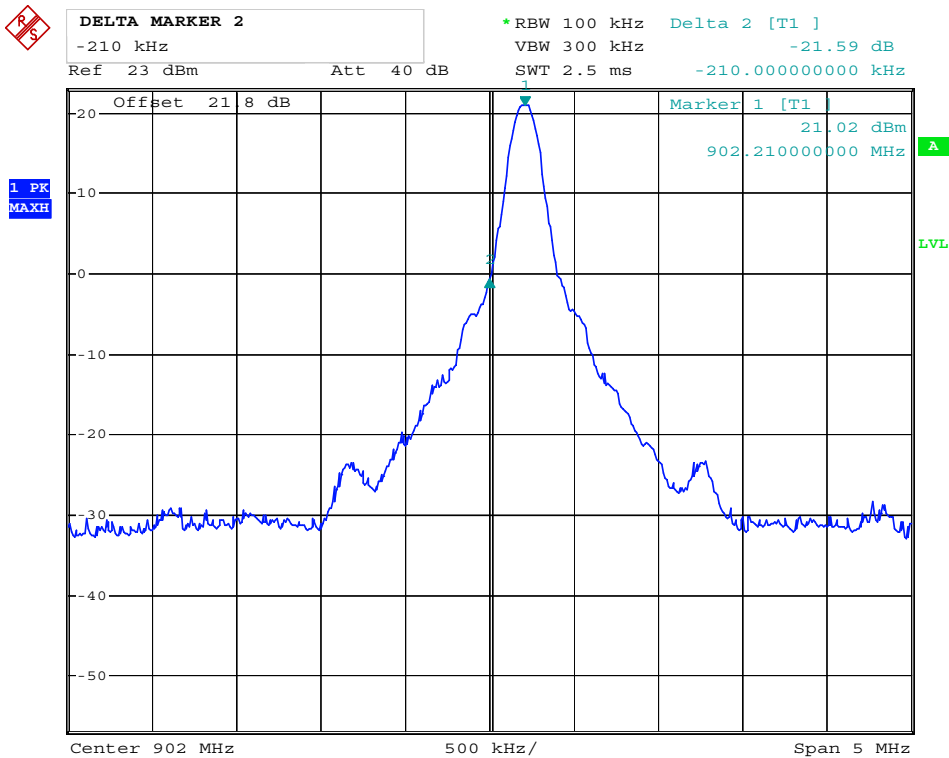
Date: 13.JUN.2007 18:14:36

Spurious Emissions

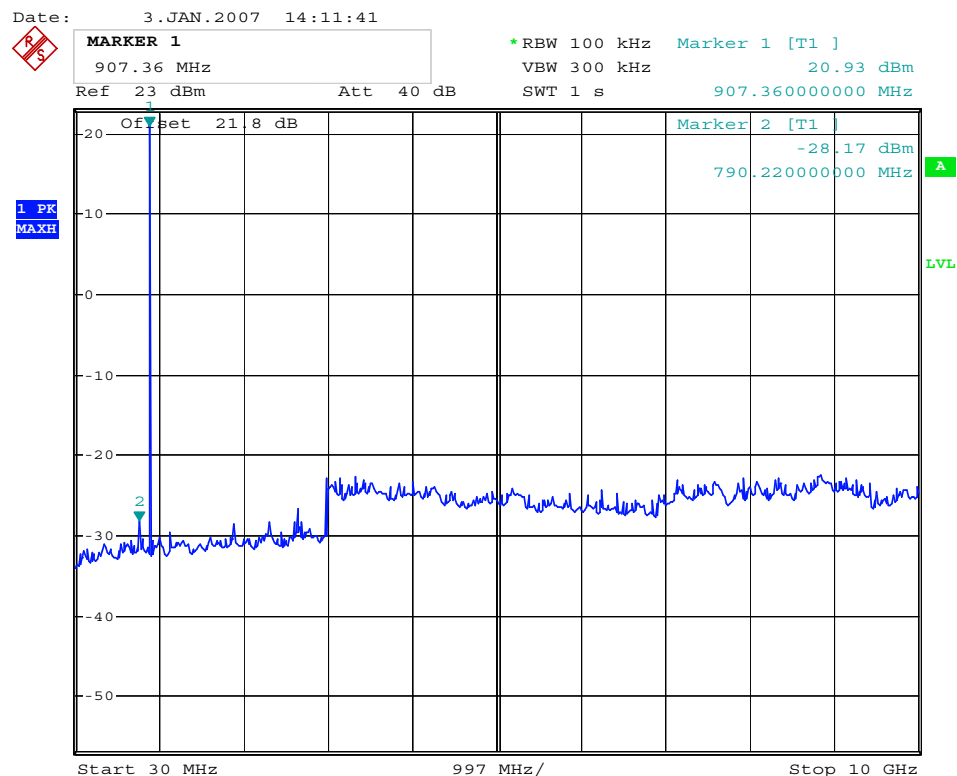
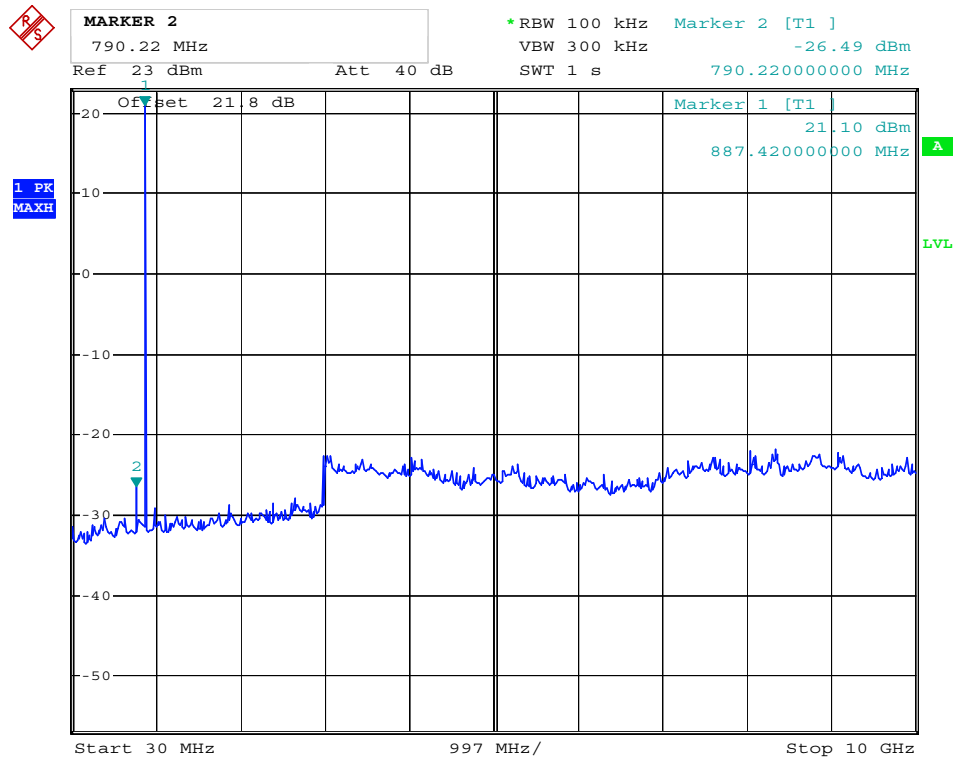
Rules and Specifications:	15.247 (c)
Guide:	ANSI C63.4
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below 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:	29 January 2007

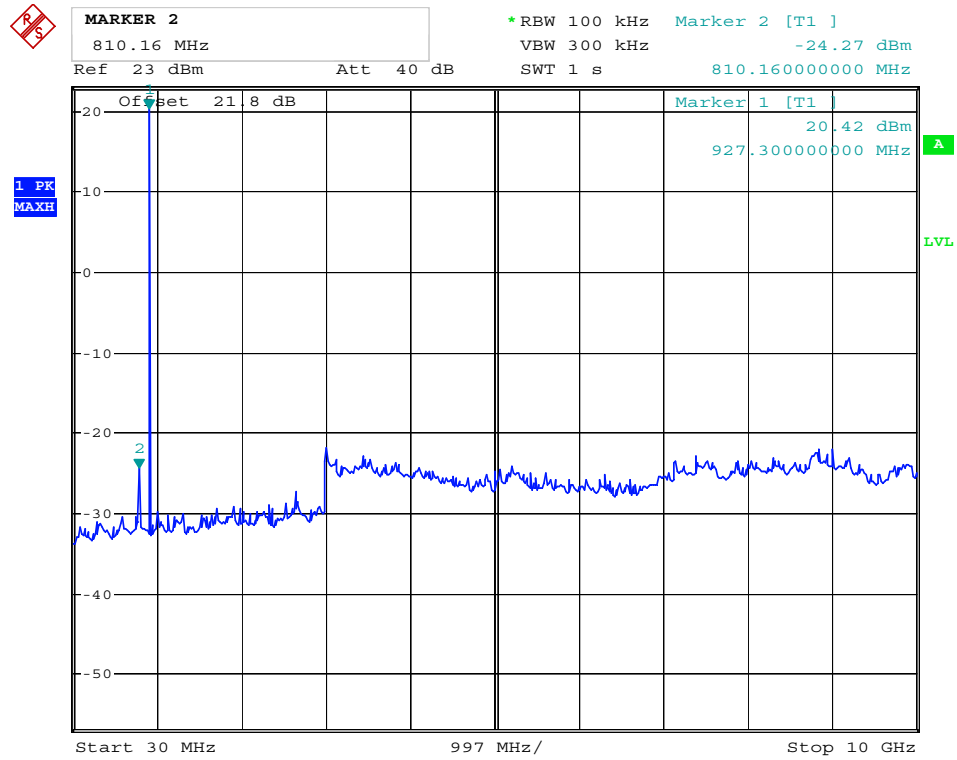
Frequency (MHz)	Measured Value (dBm)	Limit (dBm)	Margin (dB)	Result
902.2		---	---	Fundamental
915.4		---	---	Fundamental
927.5		---	---	Fundamental
902.0	-0.57	1.02	0.45	Pass
928.0	-17.13	1.02	18.15	Pass
790.22	-26.49	1.02	27.51	Pass
810.16	-24.27	1.02	25.29	Pass



Date: 3.JAN.2007 14:07:55



Date: 3.JAN.2007 14:12:48



Date: 3.JAN.2007 14:13:57

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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Spurious Emissions

Rules and Specifications:	15.247 (c)
Guide:	ANSI C63.4
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:	03 January 2007

Frequency (MHz)	Antenna Polarisation	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
902.20	Vertical	94.42	24.19	118.61	Fundamental	---
915.36	Vertical	93.28	24.30	117.58	Fundamental	---
927.50	Vertical	92.77	24.41	117.18	Fundamental	
Band Edge Compliance						
902.0	Vertical	4.00	24.19	28.19	98.61	N.R.B
928.0	Vertical	4.80	24.41	29.21	98.61	N.R.B
Low Channel						
1012.00	Vertical	15.66	25.19	40.85	54.00	13.15
1072.00	Vertical	19.06	26.04	45.10	54.00	8.90
1126.00	Vertical	26.13	26.13	52.63	54.00	1.37
1804.00	Vertical	18.50	32.65	50.15	54.00	3.85
6315.00	Vertical	10.69	38.19	48.88	54.00	5.12
8124.00	Horizontal	10.72	39.70	50.42	54.00	3.58
9024.00	Horizontal	1.78	43.72	45.50	54.00	8.50
Middle Channel						
743.92	Vertical	27.69	22.15	49.84	97.58	N.R.B.

Frequency (MHz)	Antenna Polarisation	Meter Reading (dBµV)	Antenna Correction (dB)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
802.12	Vertical	34.01	22.95	56.96	97.58	N.R.B.
860.32	Vertical	28.29	23.69	51.98	97.58	N.R.B.
1144.00	Vertical	18.54	26.55	45.09	54.00	8.91
1198.00	Vertical	15.91	26.70	42.61	54.00	11.39
1828.00	Vertical	15.49	30.08	44.96	54.00	9.04
6409.00	Vertical	10.41	38.27	48.68	54.00	5.32
7325.00	Horizontal	6.26	39.07	45.33	54.00	8.67
8239.00	Vertical	4.54	43.17	47.72	54.00	6.28
High Channel						
755.56	Vertical	29.37	22.31	51.69	97.18	N.R.B.
811.82	Vertical	36.60	23.08	59.67	97.18	N.R.B.
1156.00	Vertical	23.74	26.59	50.33	54.00	3.67
1216.00	Vertical	19.56	26.97	46.53	54.00	7.47
1852.00	Horizontal	14.99	31.53	46.52	54.00	7.48
4636.00	Vertical	16.49	34.11	50.60	54.00	3.40
6493.00	Vertical	14.54	38.34	52.89	54.00	1.11

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 a MMCX connector which meets the requirements for an unique antenna coupler



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

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:

20.78 dBm = 119.6 mW

Prediction distance:

20 cm

Antenna gain: (**Nearson SG101NT-915**)

5.0 dBi = 3,16 (numerical gain)

Power density at 20 cm:

0.074 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

Test Site:	EMC Lab. - Shielded Room 4
Distance:	Conducted Measurement
Date of Test:	29 January 2007

Frequency (MHz)	Detector	Analyzer Reading (dBμV)	Correction Factor (dB)	Final Value (dBμV)	Limit (dBμV)	Margin (dB)
0,240	Average	51,8	0	51,8	52,1	0,3
0,475	Average	46,6	0	46,1	46,6	0,5
0,715	Average	43,20	0	43,2	46,0	2,8
0,235	QP	59,8	0	59,8	62,3	2,5
1,135	QP	48,4	0	48,4	56	7,6

*** = No emissions above noise floor detected

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	
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)	Detector	Antenna Polarization	Analyzer Reading (dBμV)	Correction Factor (dB/m)	Field Strength (dBμV/m)	Limit (dBμV/m)	Margin (dB)
1198,000	Peak	Vertical	18,18	28,53	46,71	54,00	7,3
1324,000	Peak	Vertical	12,95	29,00	41,95	54,00	12,1
1456,000	Peak	Vertical	17,68	29,45	47,13	54,00	6,9
1726,000	Peak	Vertical	20,54	30,88	51,42	54,00	2,6

*** = All emissions showed more than 20 dB margin to the limit

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 4, 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)
☒	RSS-Gen	Radio Standards Specification RSS-Gen Issue 2 containing General Requirements and Information for the Certification of Radiocommunication Equipment, published by Industry Canada	June 2007
☒	RSS-210	Radio Standards Specification RSS-210 Issue 7 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, published by Industry Canada	June 2007
☐	RSS-310	Radio Standards Specification RSS-310 Issue 1 for Low Power Licence-Exempt Radiocommunication Devices (All Frequency Bands): Category II Equipment, published by Industry Canada	September 2005
☒	RSS-102	Radio Standards Specification RSS-102 Issue 2: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	November 2005
☐	ICES-003	Interference-Causing Equipment Standard ICES-003 Issue 4 for Digital Apparatus, published by Industry Canada	February 7, 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

Revision History

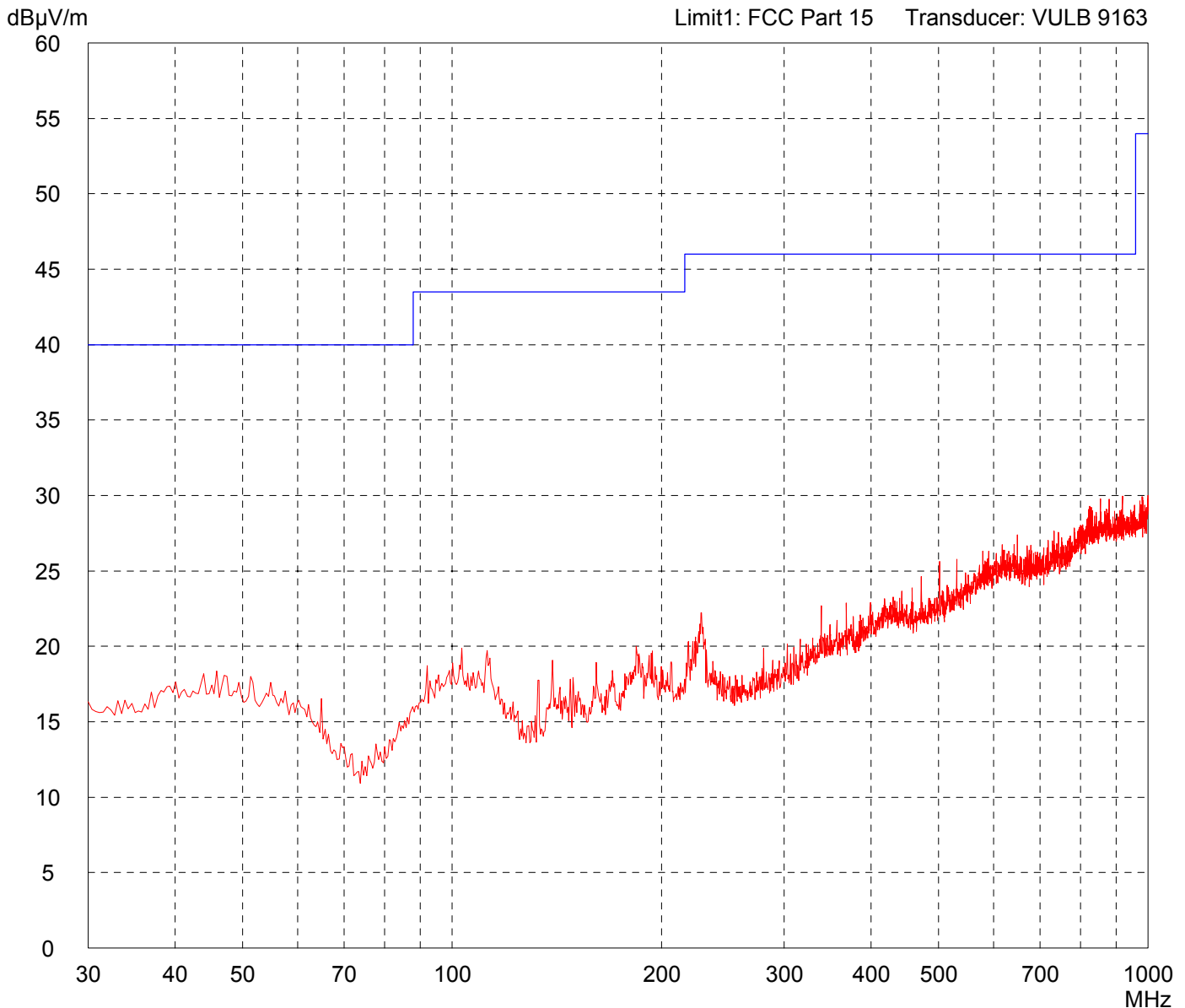
<i>Edition</i>	<i>Date</i>	<i>Issued by</i>	<i>Modifications</i>
1	June 13, 2007	J.Roidt	First Edition
2	June 26, 2007	C. Jäger	Edition 2 Modifications referring to email from Mr. Waters (June 18, 2007)
3	July 12, 2007	C. Jäger	Edition 3 Updated to latest FCC requirements
4	August 13, 2007	J. Roidt	Edition 4 Modifications required for FCC-/IC approval according email from Mr. Selck (July 23, 2007)

Charts taken during testing

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

Model: AC4790-200M-485	Comment: - TX at 902.20 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/03/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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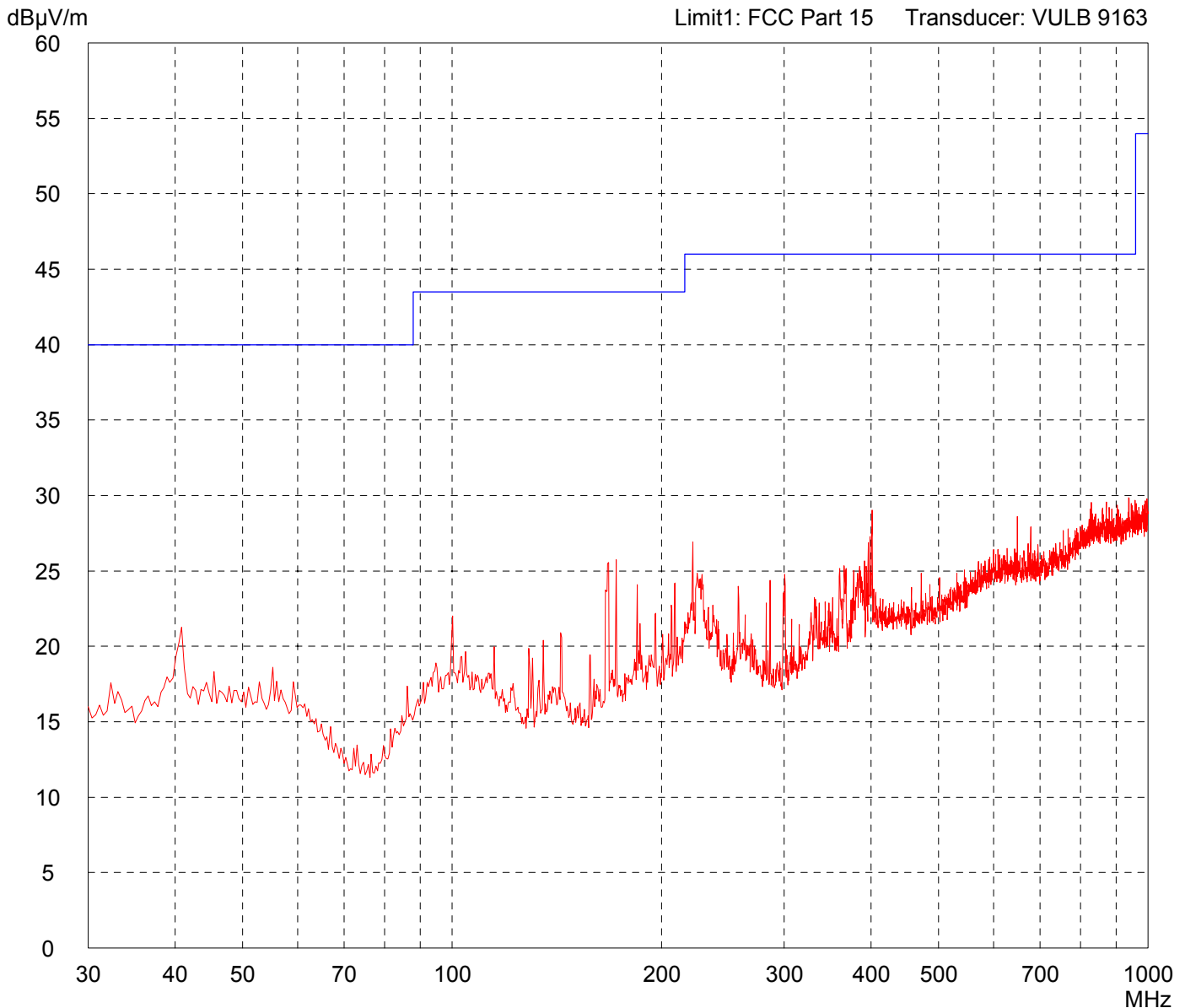


Result: Prescan	Project file: 56109-61084-1
	Page of Pages

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

Model: AC4790-200M-485	Comment: - TX at 902.20 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/03/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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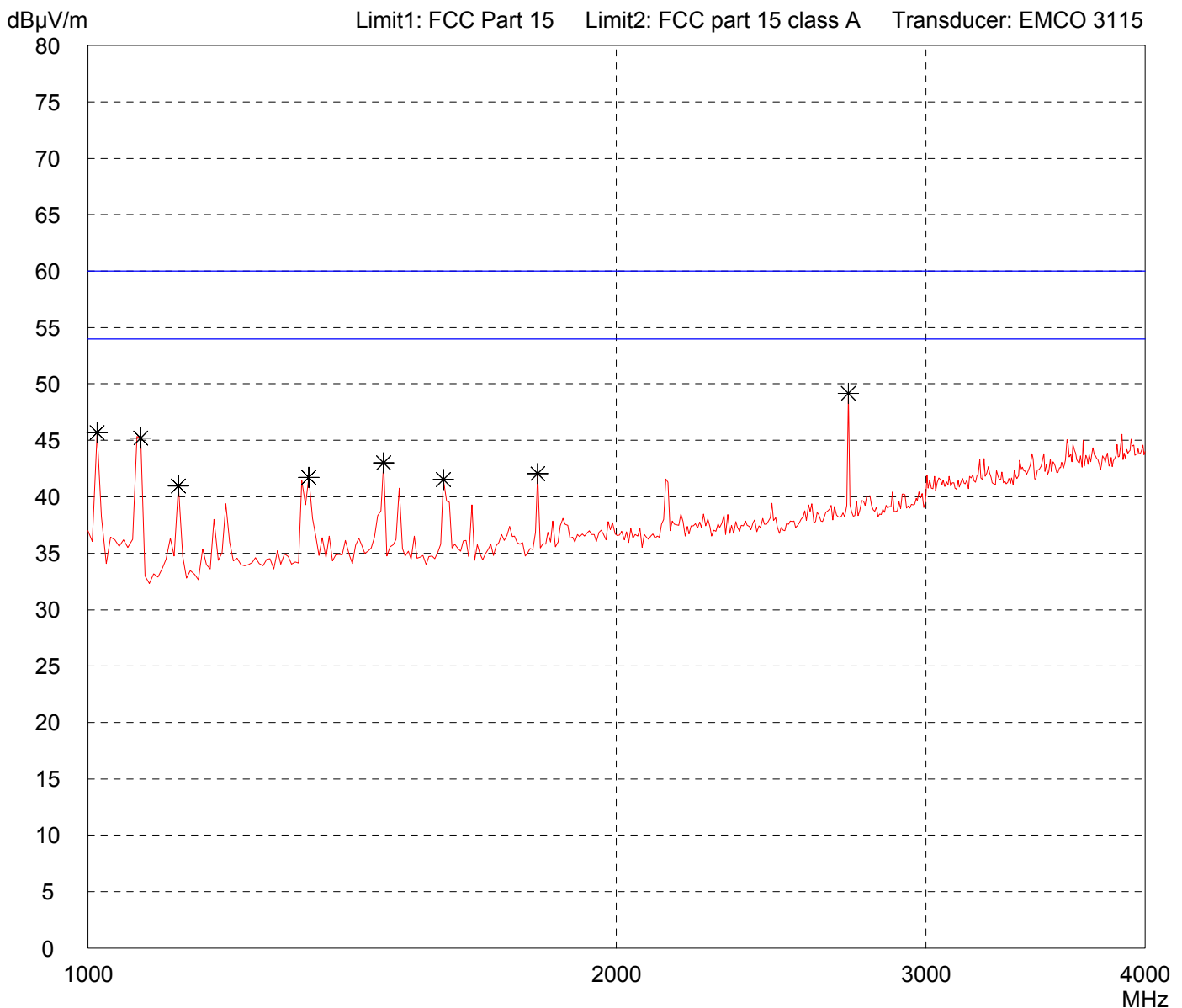


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	Page of Pages

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: AC4790-200M-485	Comment: - TX at 902.20MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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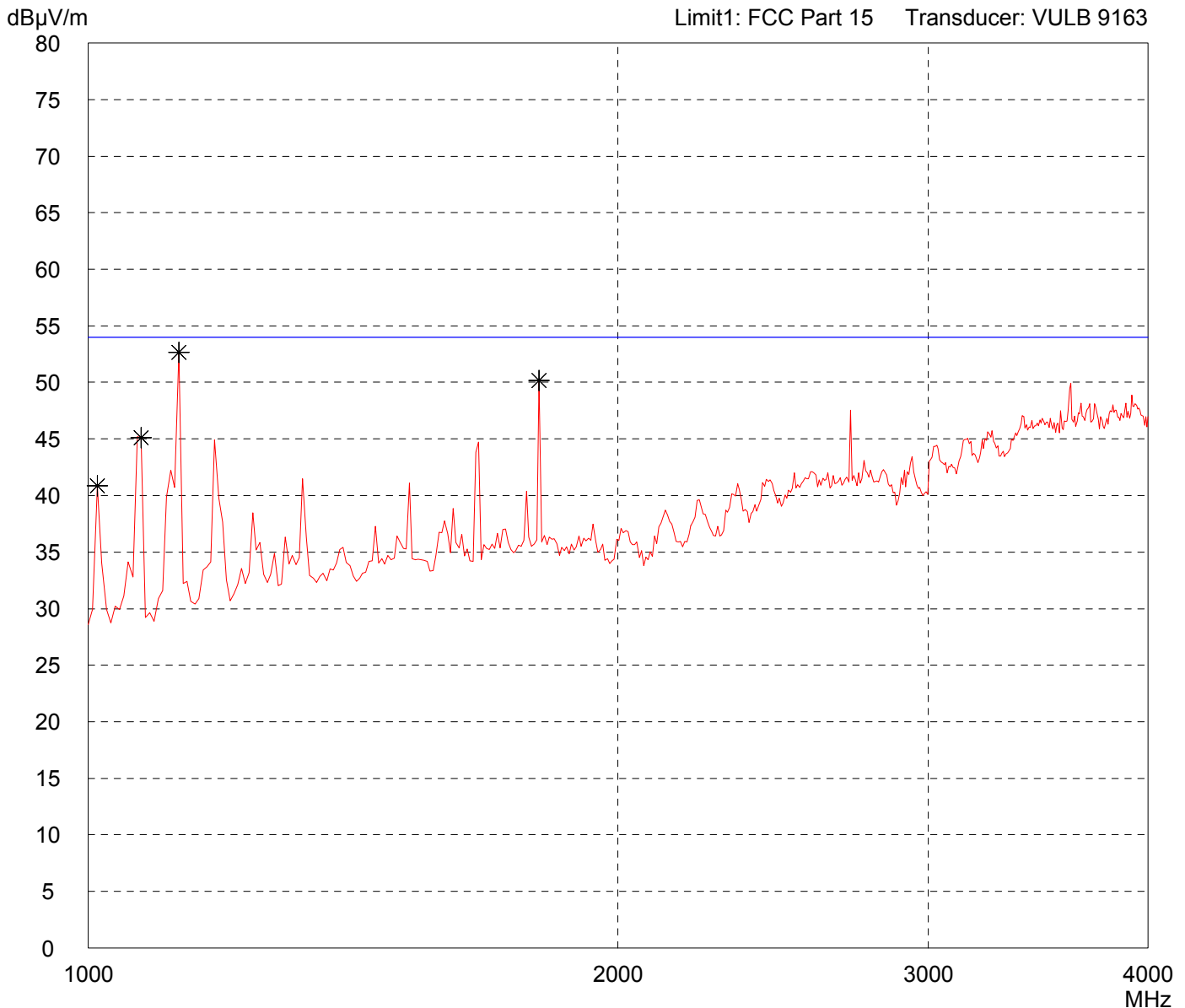


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4790-200M-485	Comment: - TX at Low Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter on Fundamental Frequency
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 06/14/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

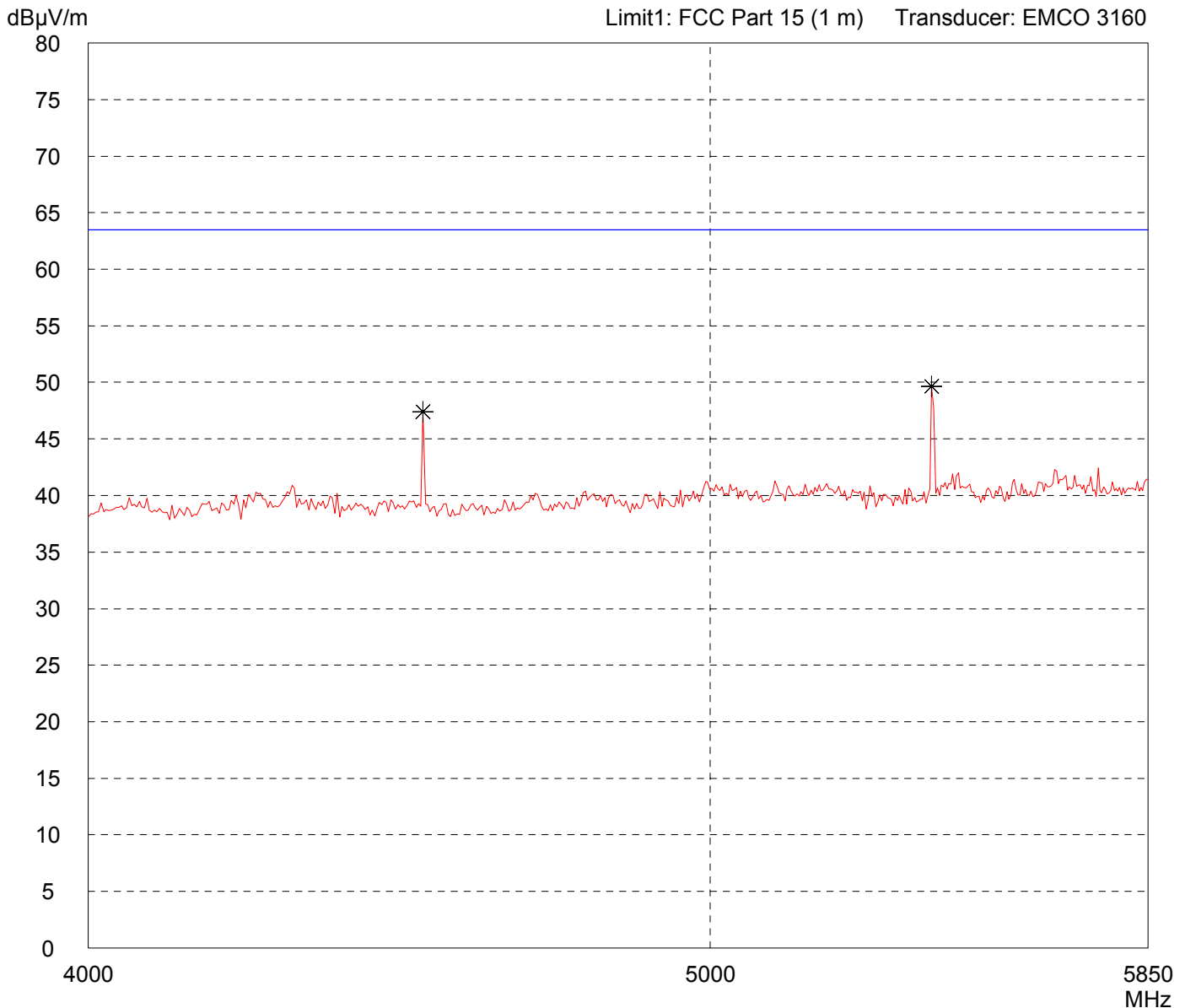
Detector: Peak	List of values: Selected by hand
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Result: Limit kept	Project file: 56109-61084-1
	Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

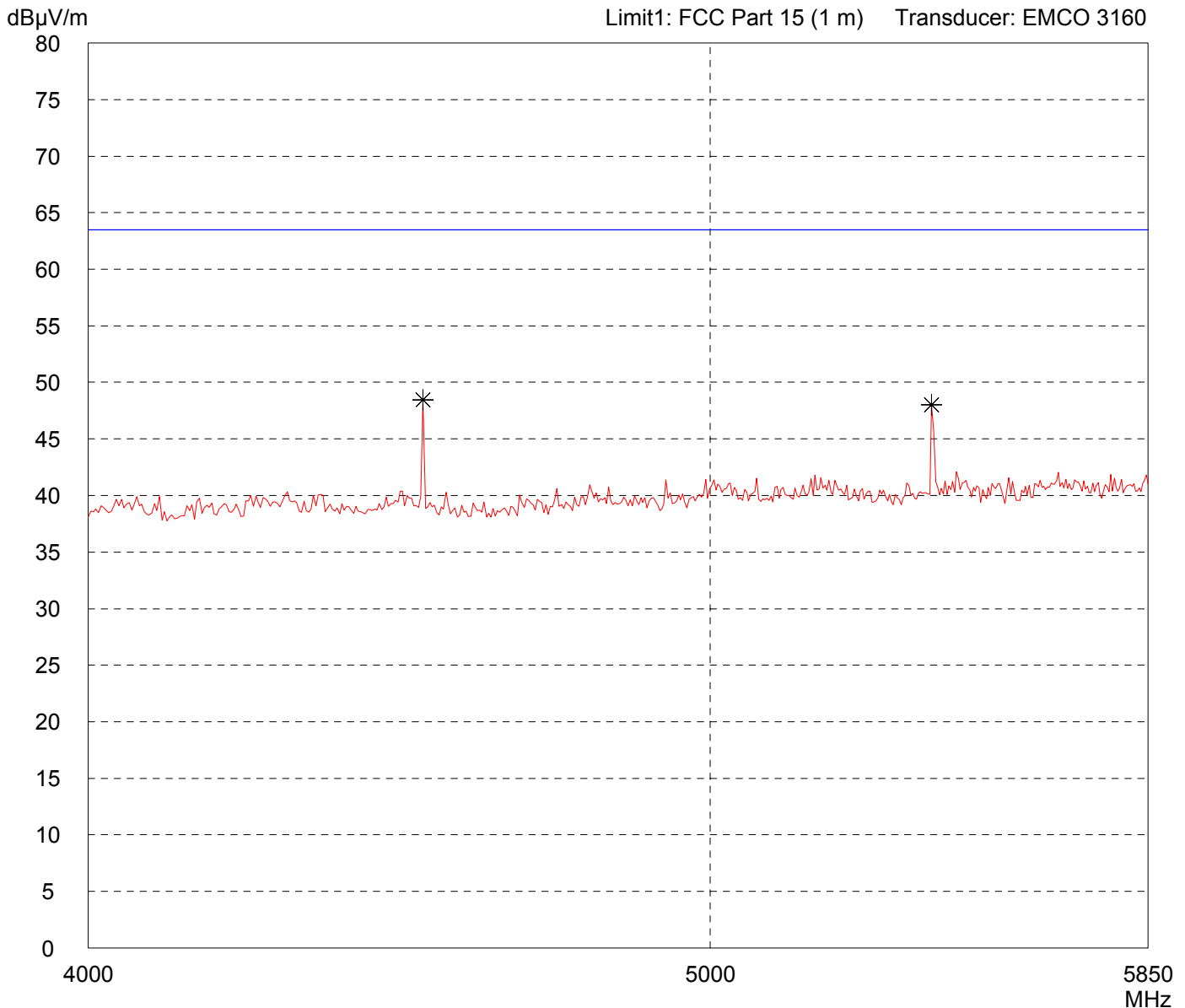
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Serial no.: Test Sample #1		
Applicant: AEROCOMM, Inc.		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Horizontal Polarization		
Date of test: 01/23/2007	Operator: J. Roidt	List of values: Selected by hand
Test performed: automatically	File name: default.emi	
Detector: Peak		



Result: Limit kept	Project file: 56409-61084	Page of Pages
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Radiated Emission Test 4 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485		Comment: - TX at 902.20 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1		
Applicant: AEROCOMM, Inc.		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 01/23/2007	Operator: J. Roidt	List of values: Selected by hand
Test performed: automatically	File name: default.emi	
Detector: Peak		

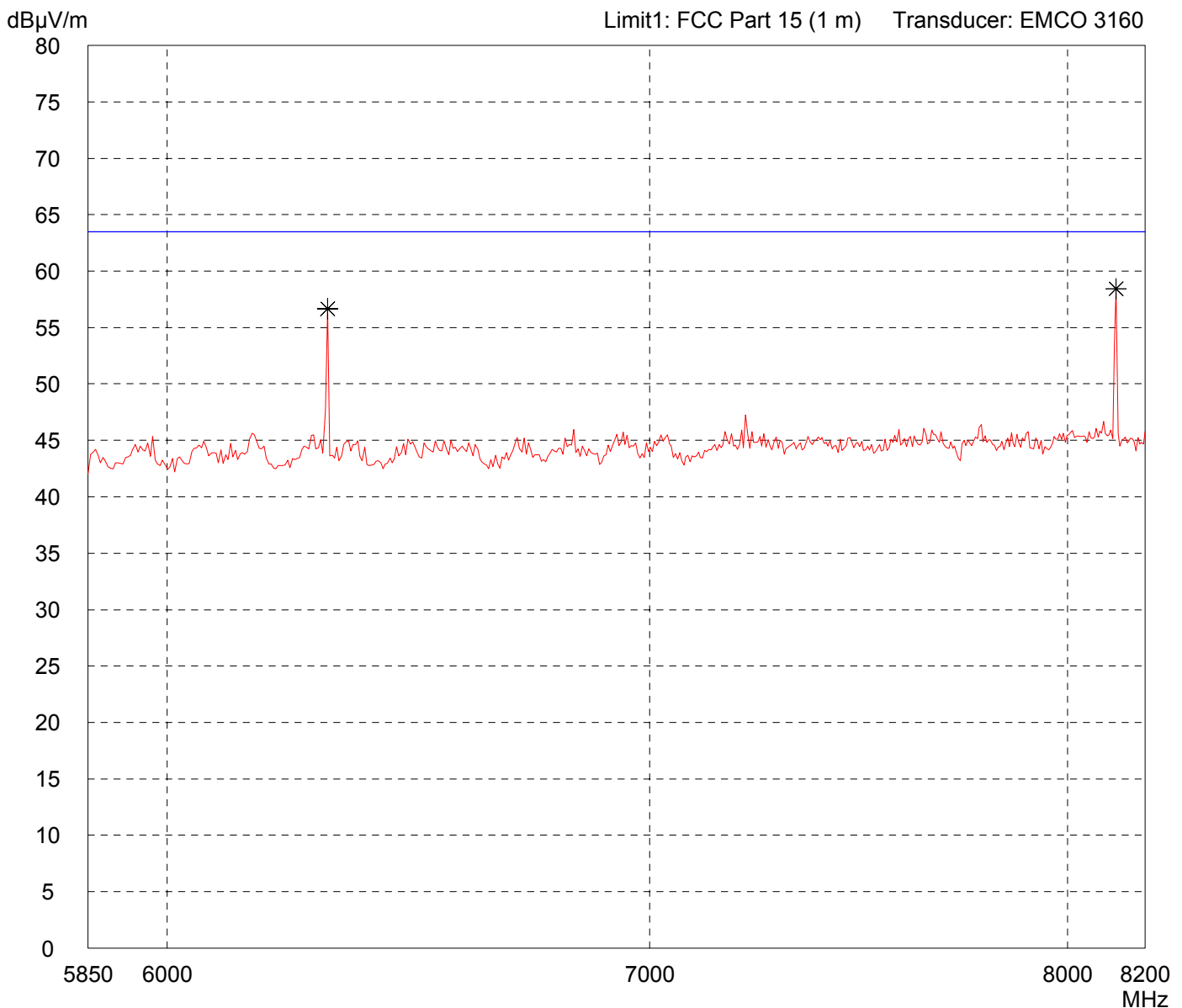


Result: Limit kept	Project file: 56409-61084	Page of Pages
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Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at High Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - 3 GHz High Pass Filter
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 06/14/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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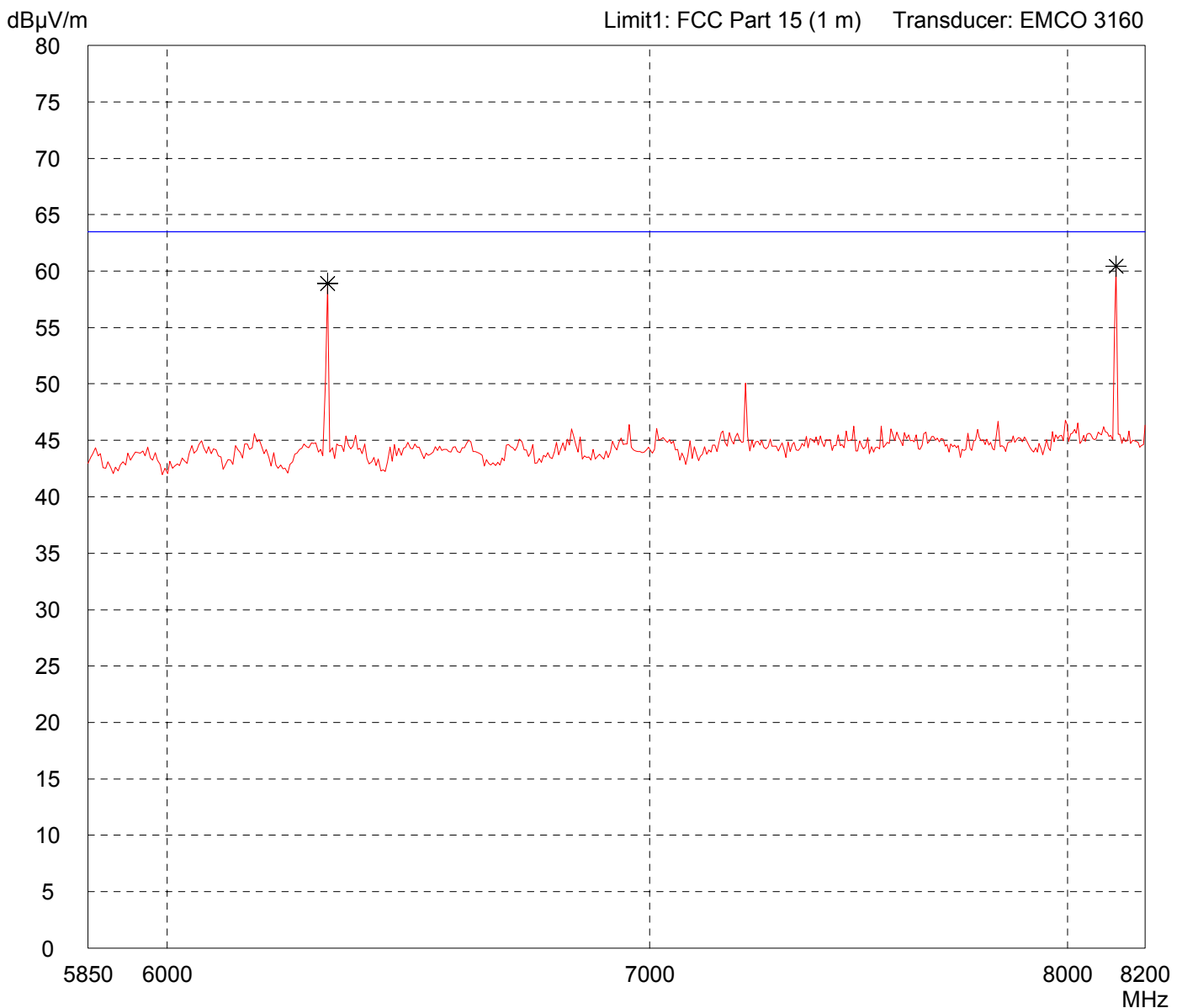


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Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at High Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - 3 GHz High Pass Filter
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 06/14/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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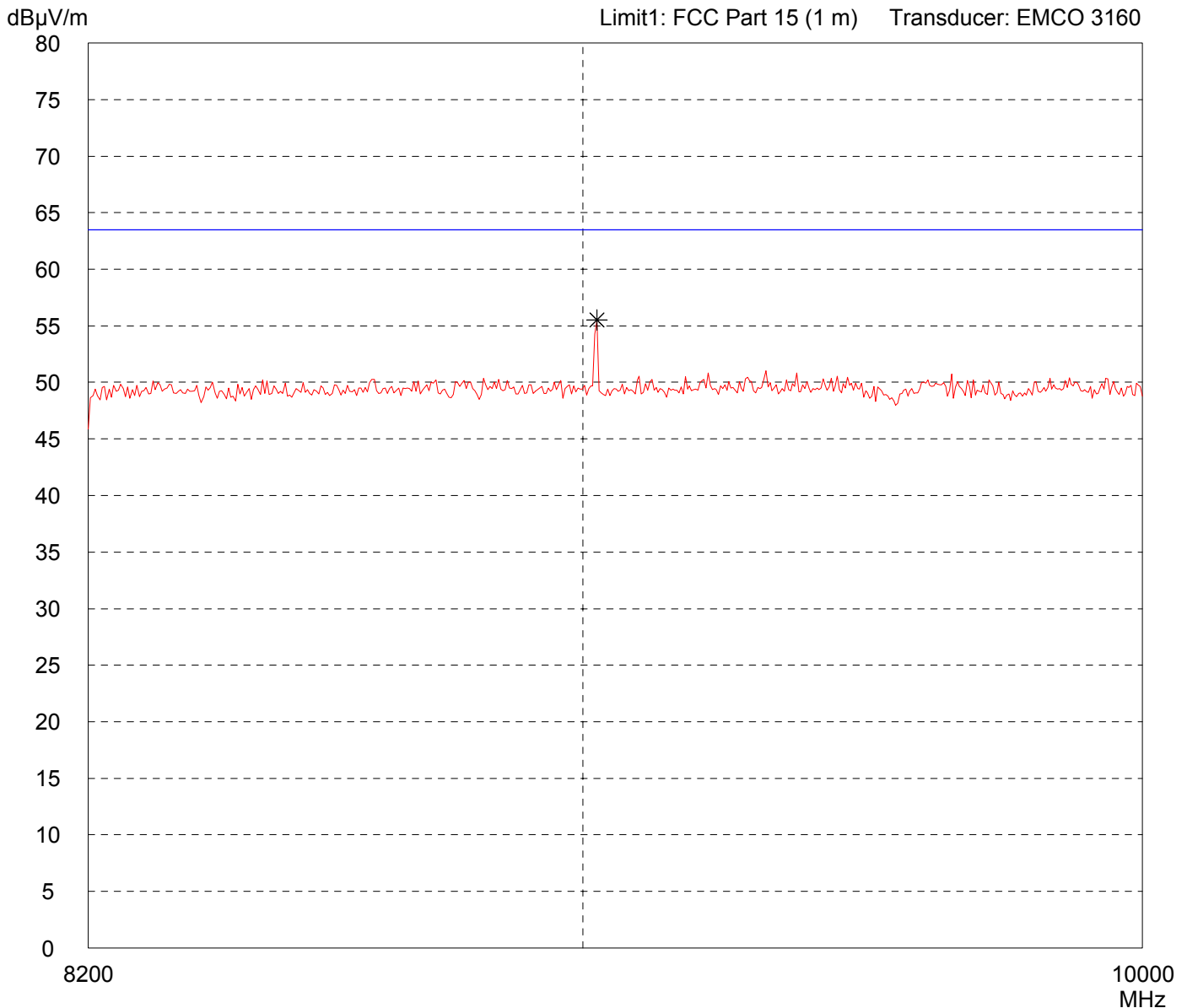


Result: Limit kept	Project file: 56109-61084-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485		Comment: - TX at 902.20 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1		
Applicant: AEROCOMM, Inc.		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Horizontal Polarization		
Date of test: 01/23/2007	Operator: J. Roidt	
Test performed: automatically	File name: default.emi	

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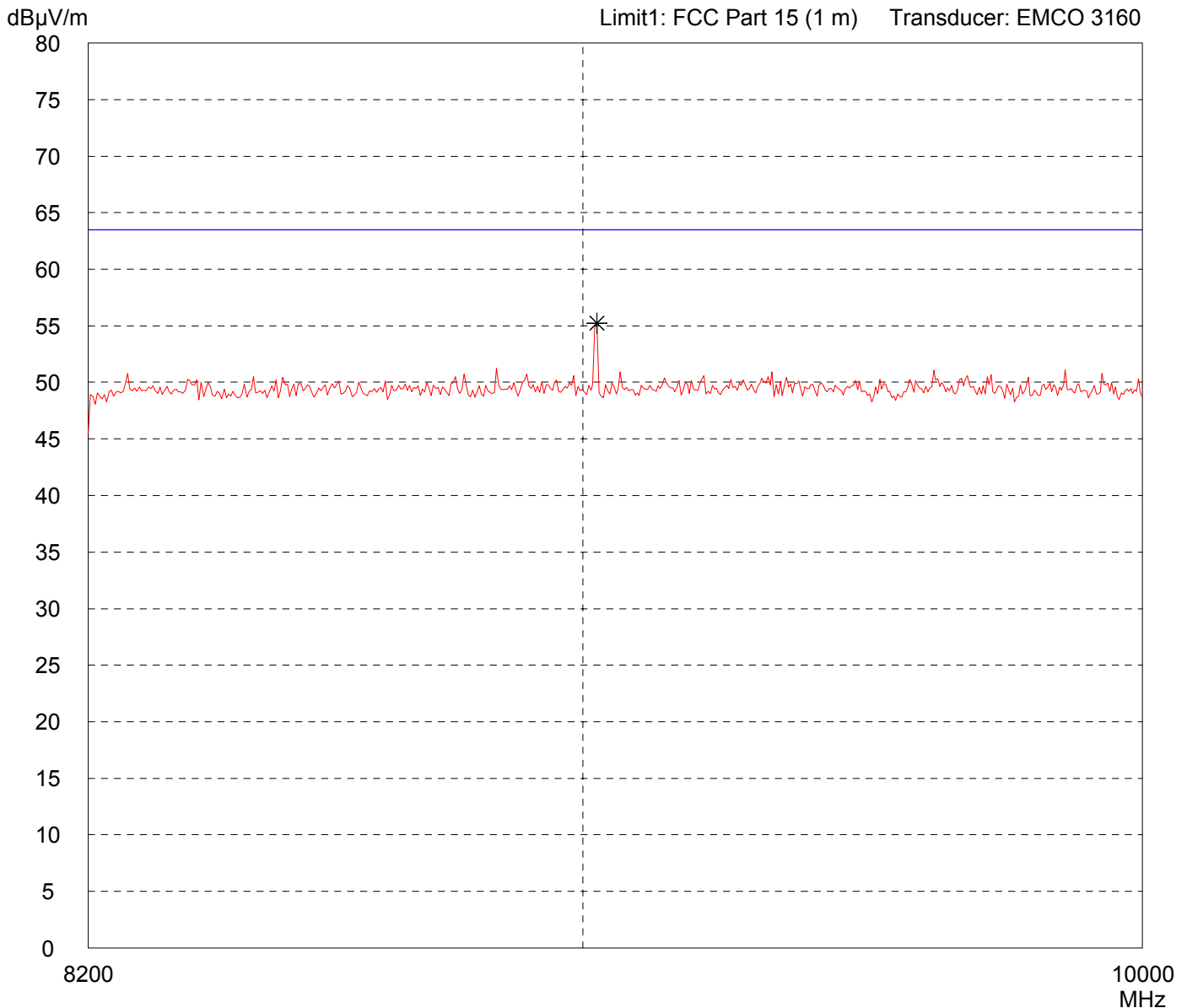


Result: Limit kept	Project file: 56409-61084 Page of Pages
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Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485		Comment: - TX at 902.20 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1		
Applicant: AEROCOMM, Inc.		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Vertical Polarization		
Date of test: 01/23/2007	Operator: J. Roidt	
Test performed: automatically	File name: default.emi	

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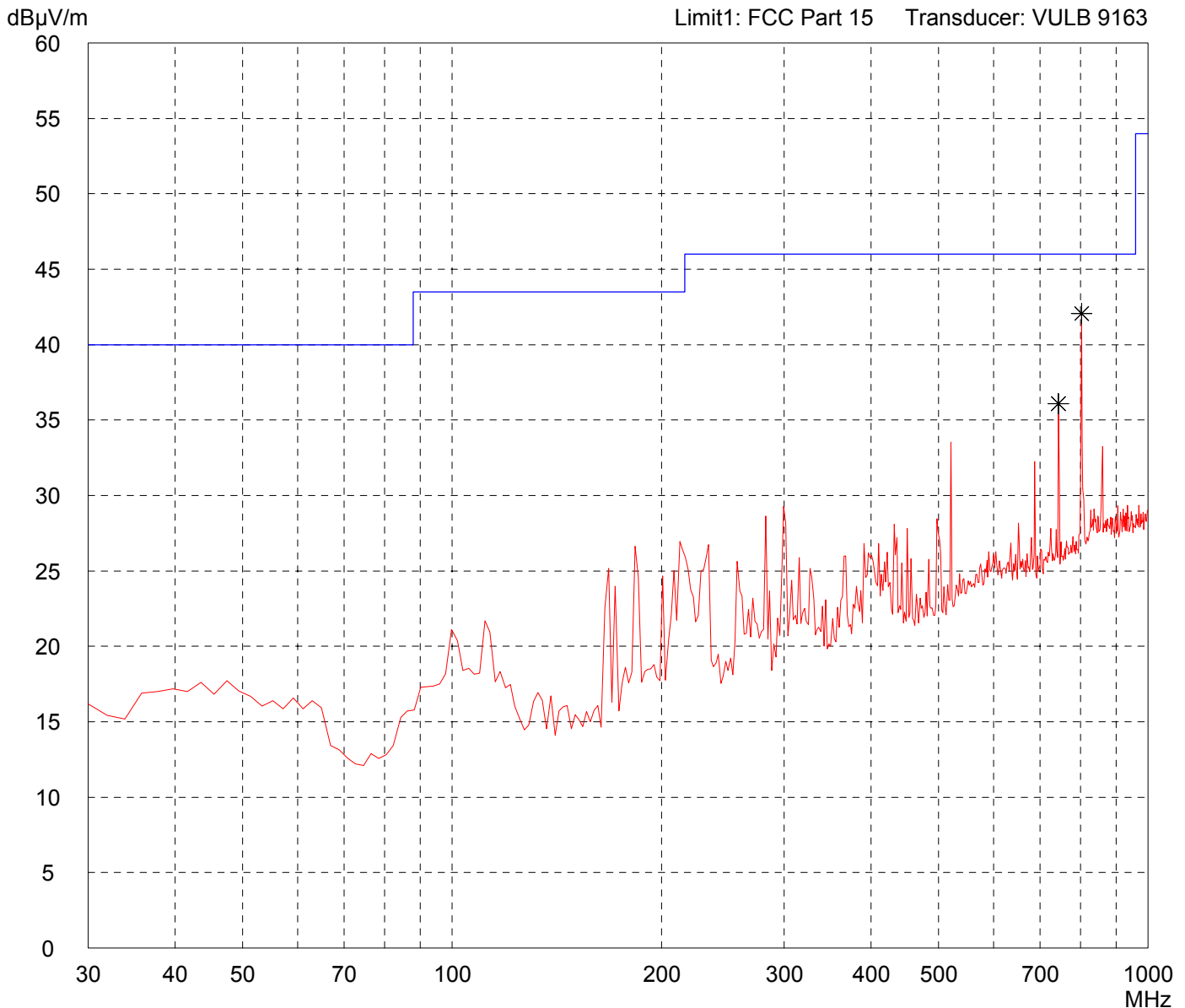


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Page of Pages	

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

Model: AC4790-200M-485	Comment: - TX at 915.37 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/03/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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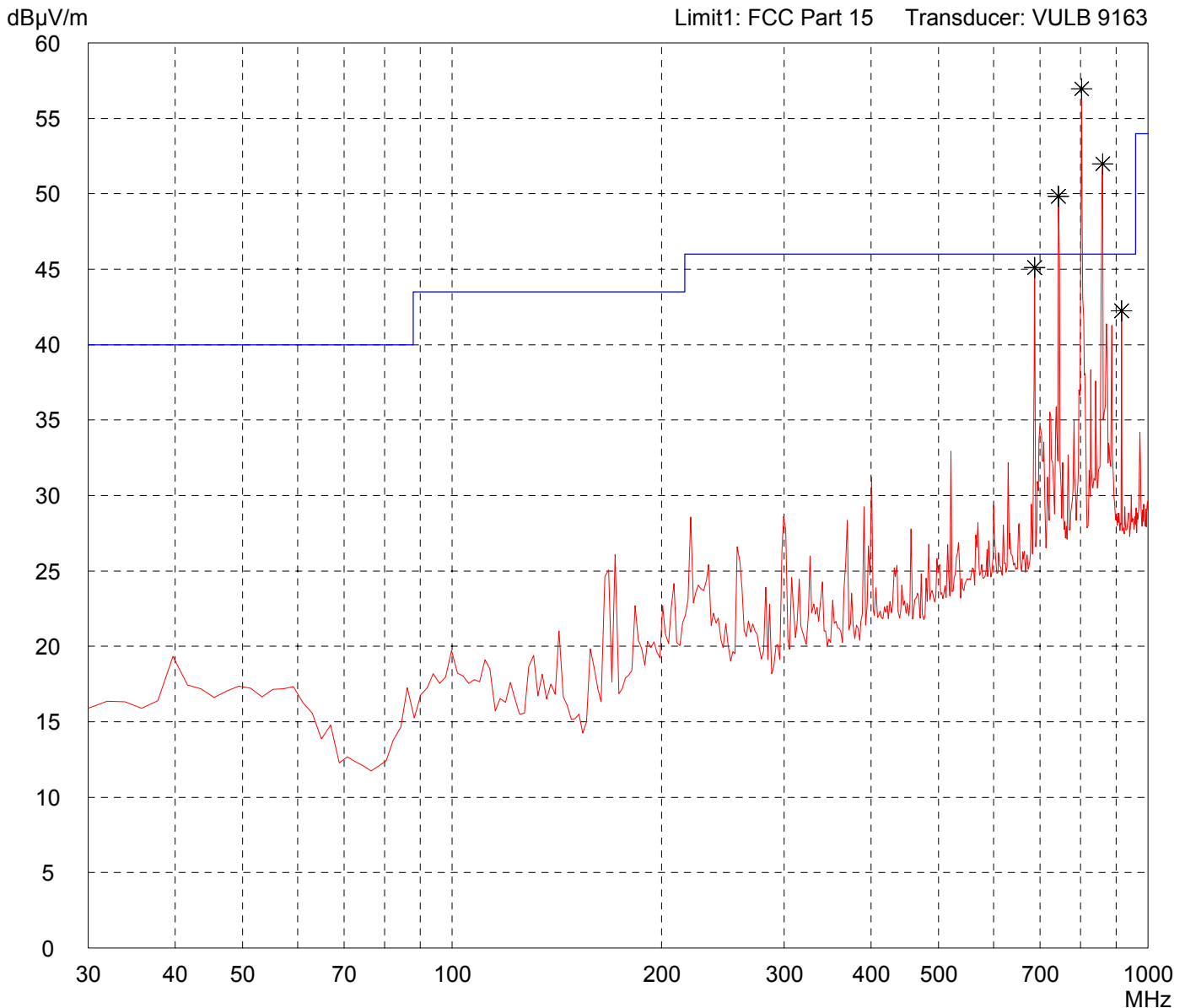
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Page of Pages

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

Model: AC4790-200M-485	Comment: - TX at 915.37 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/03/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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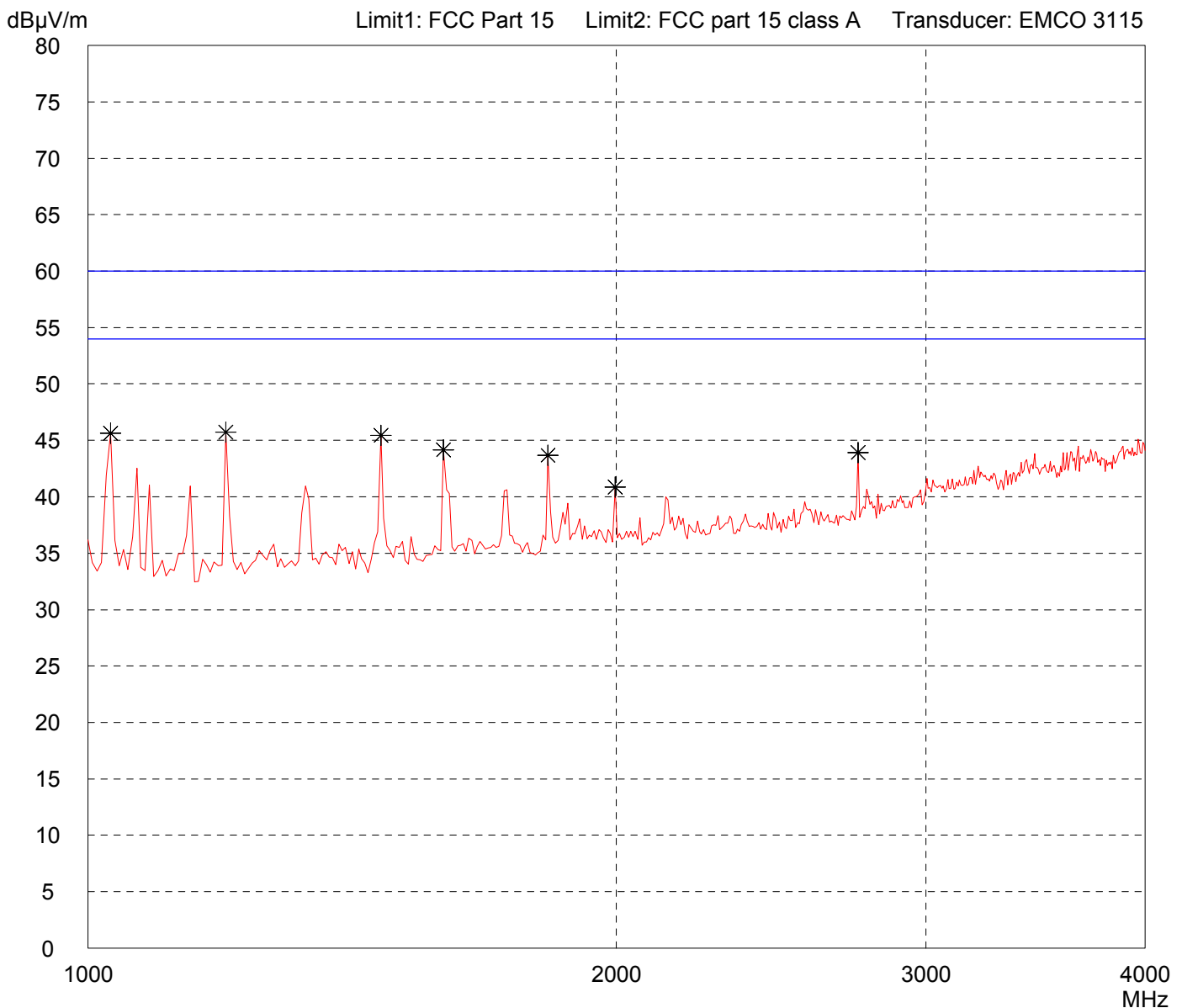


Result: Prescan	Project file: 56109-61084-1
	Page of Pages

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: AC4790-200M-485	Comment: - TX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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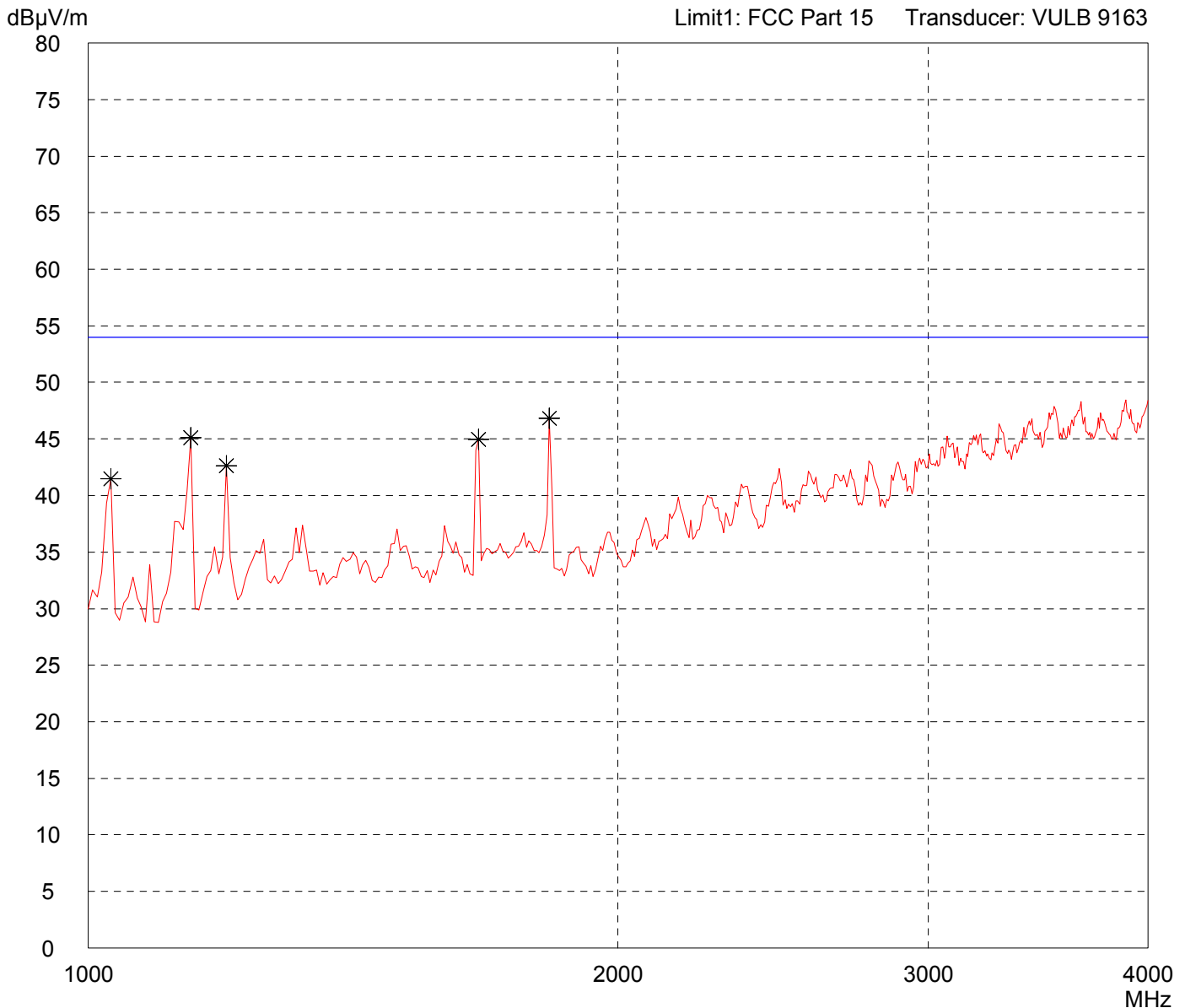


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4790-200M-485	Comment: - TX at Middle Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter on Fundamental Frequency
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 06/14/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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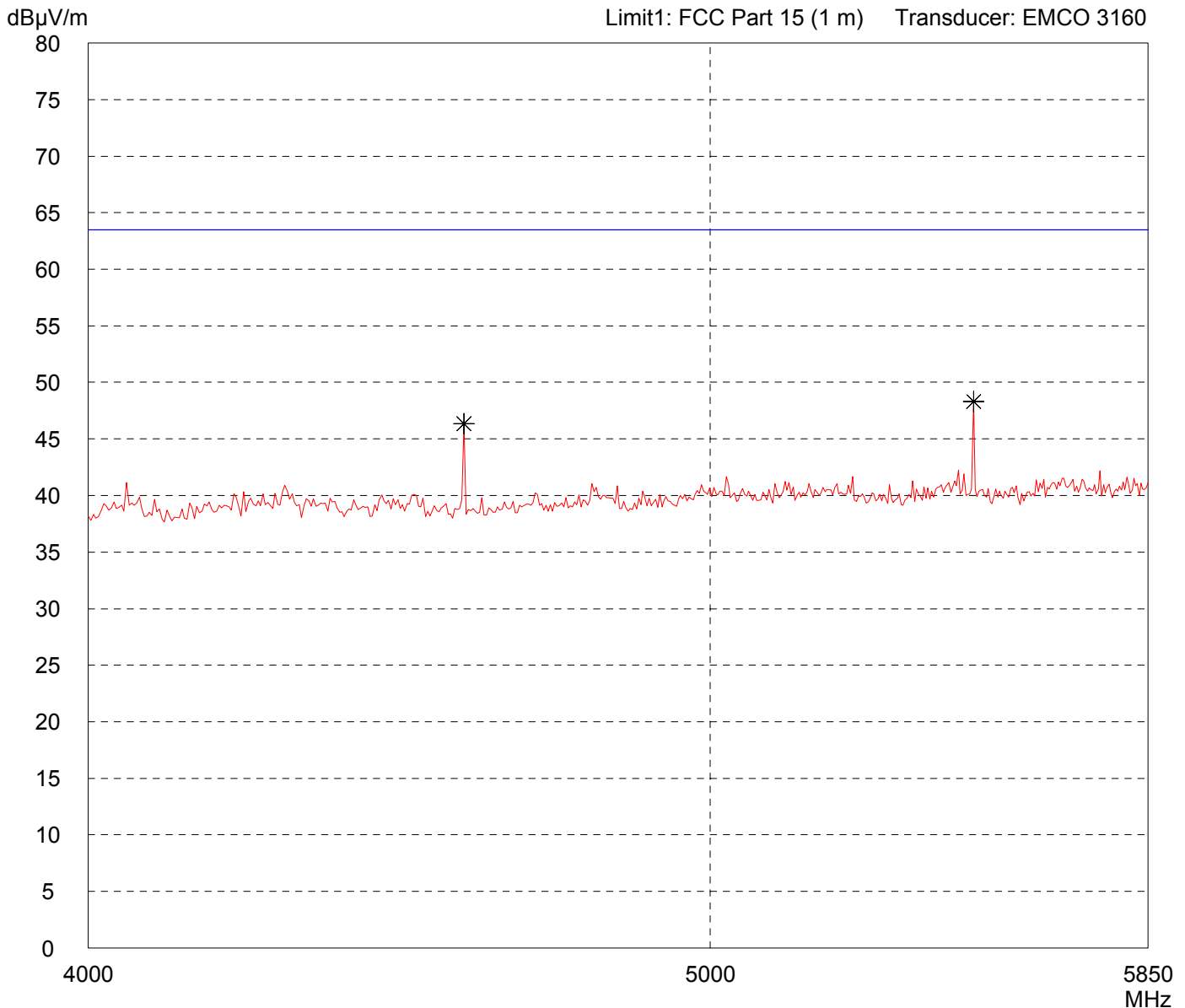


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	Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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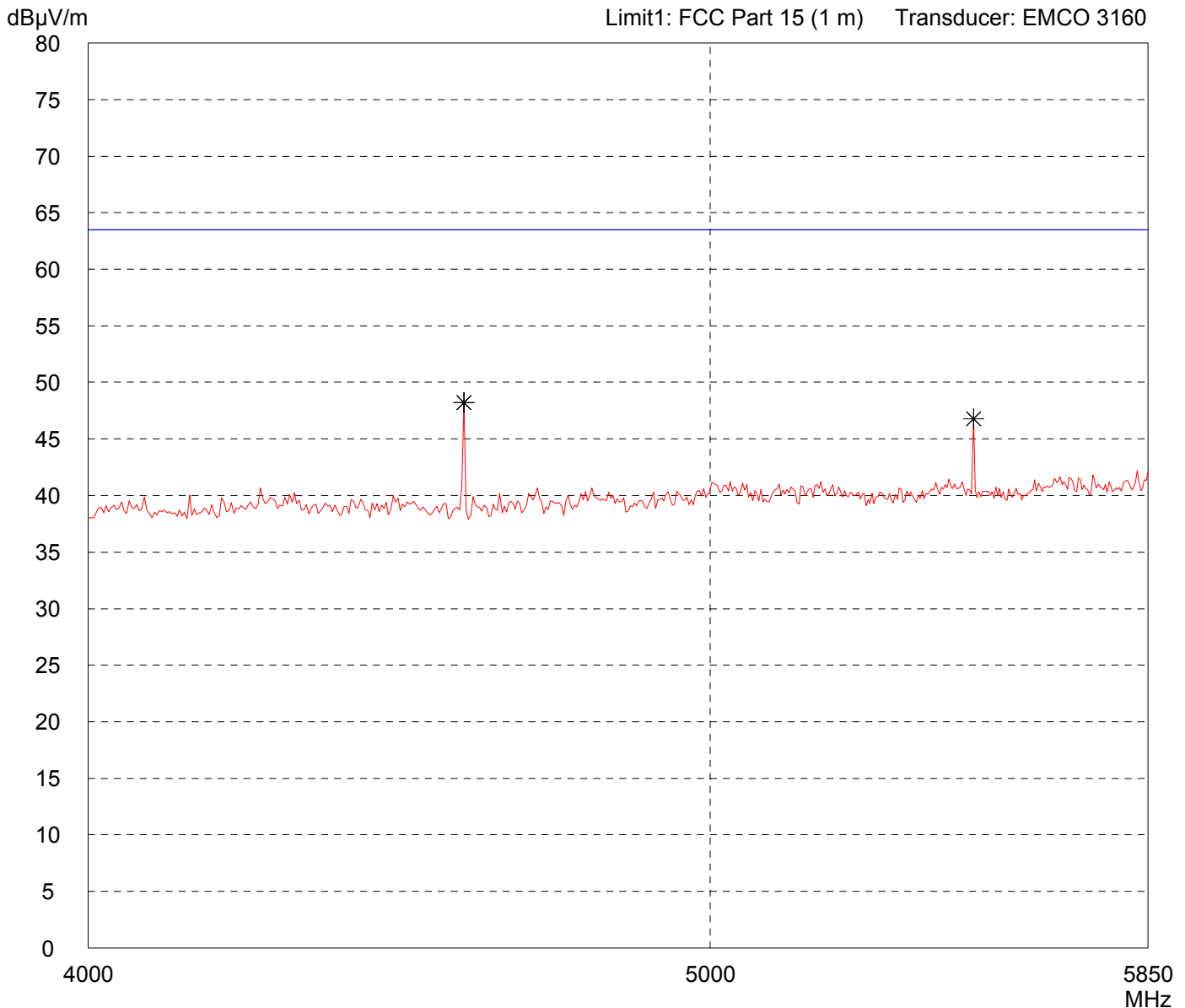


Result: Limit kept	Project file: 56409-61084
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Radiated Emission Test 4 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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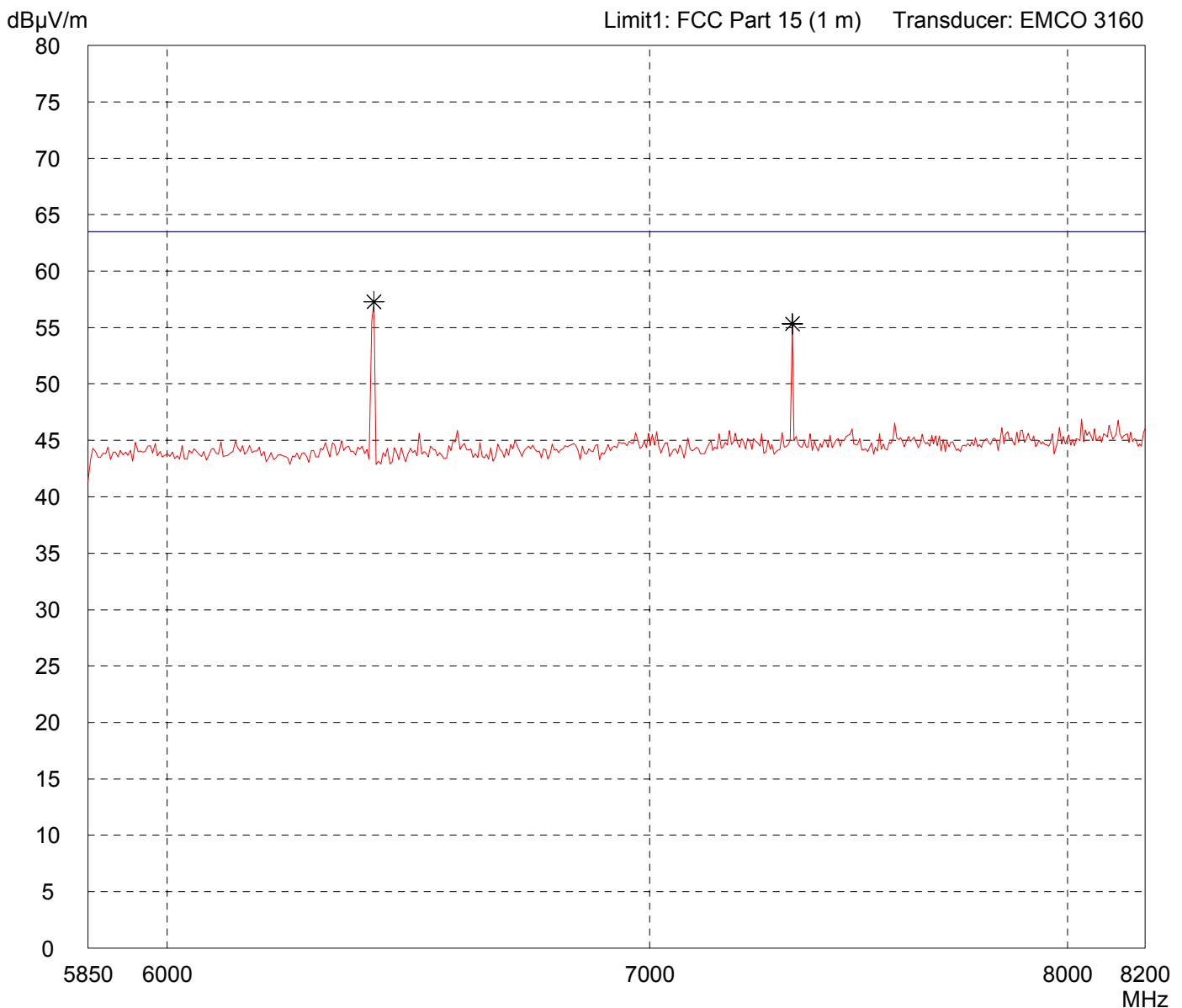


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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

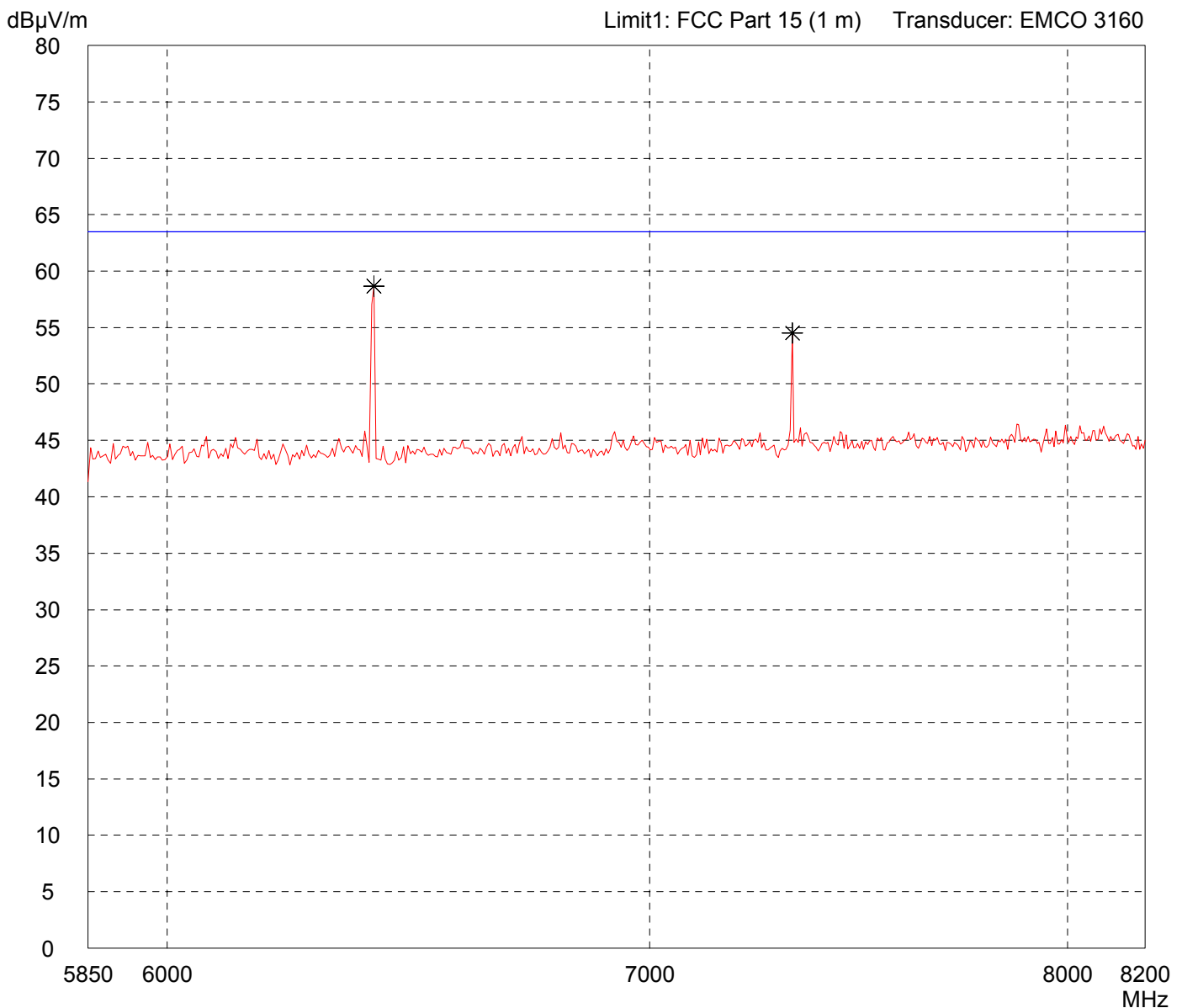


Result: Limit kept	Project file: 56409-61084
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Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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

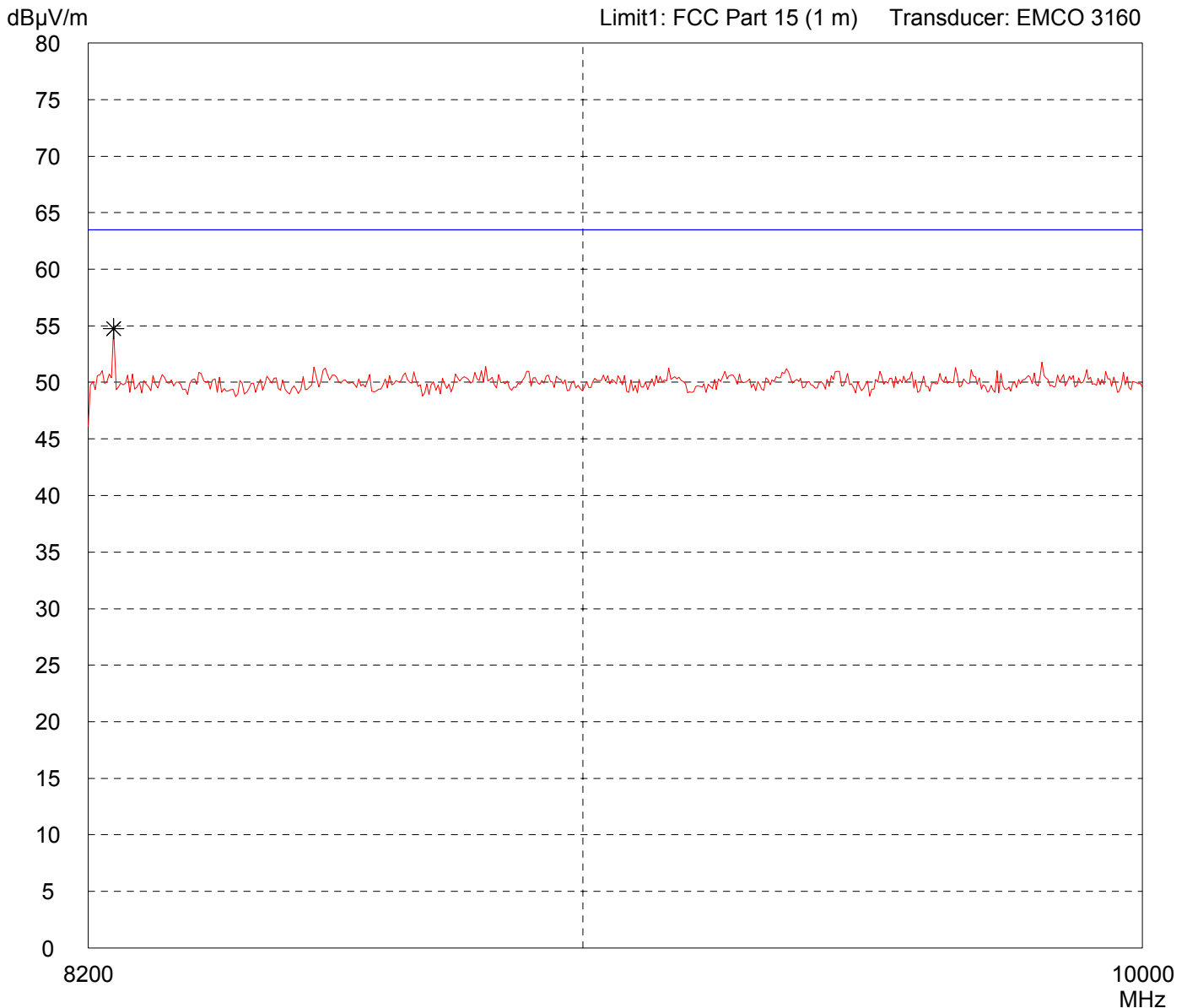


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Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485		Comment: - TX at Middle Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - 3 GHz High Pass Filter
Serial no.: Prototype		
Applicant: AEROCOMM, Inc.		
Test site: Fully anechoic room, cabin no. 2		
Tested on: Test distance 1 meter Horizontal Polarization		
Date of test: 06/14/2007	Operator: J. Roidt	
Test performed: automatically	File name: default.emi	

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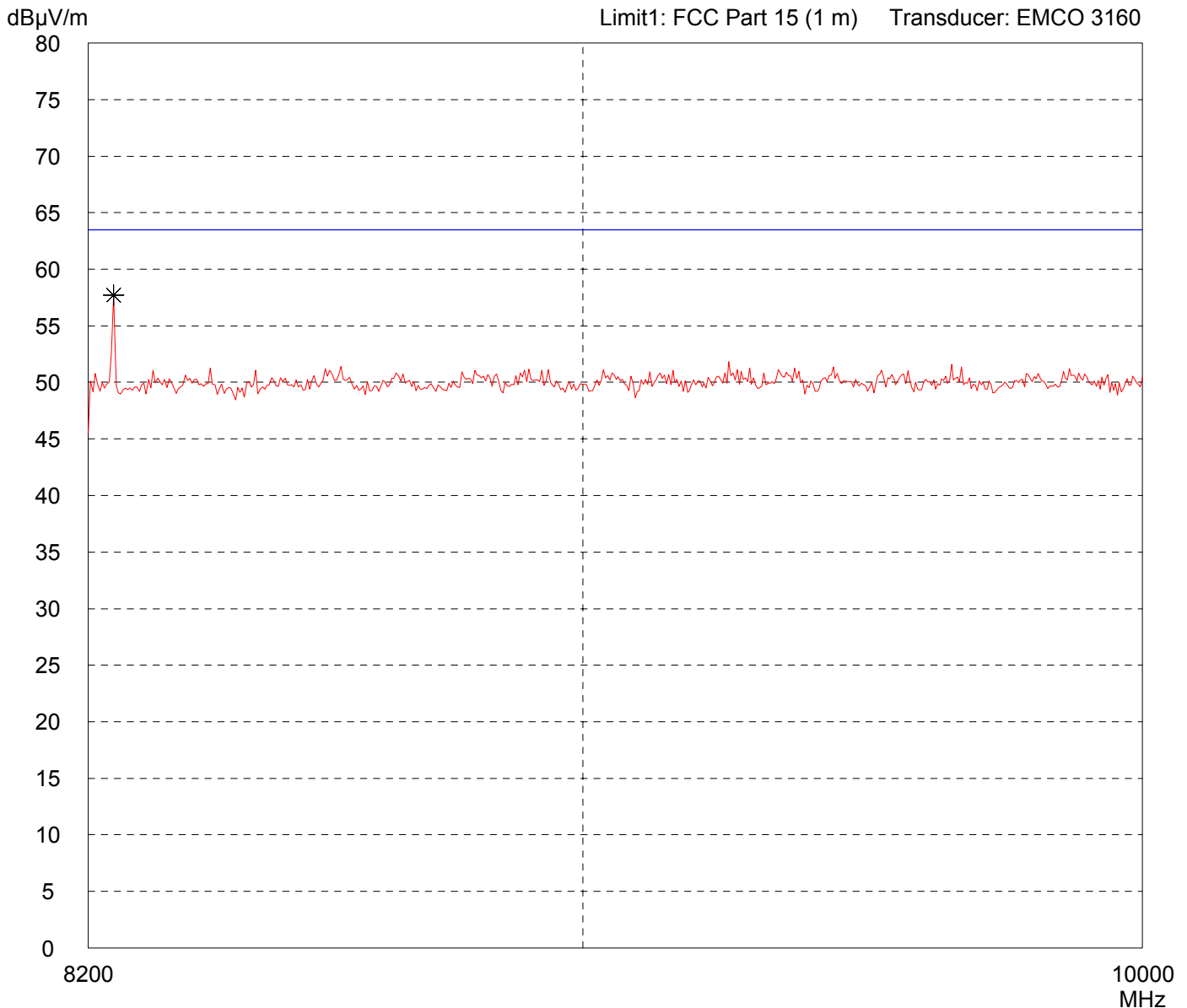


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Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at Middle Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - 3 GHz High Pass Filter
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 06/14/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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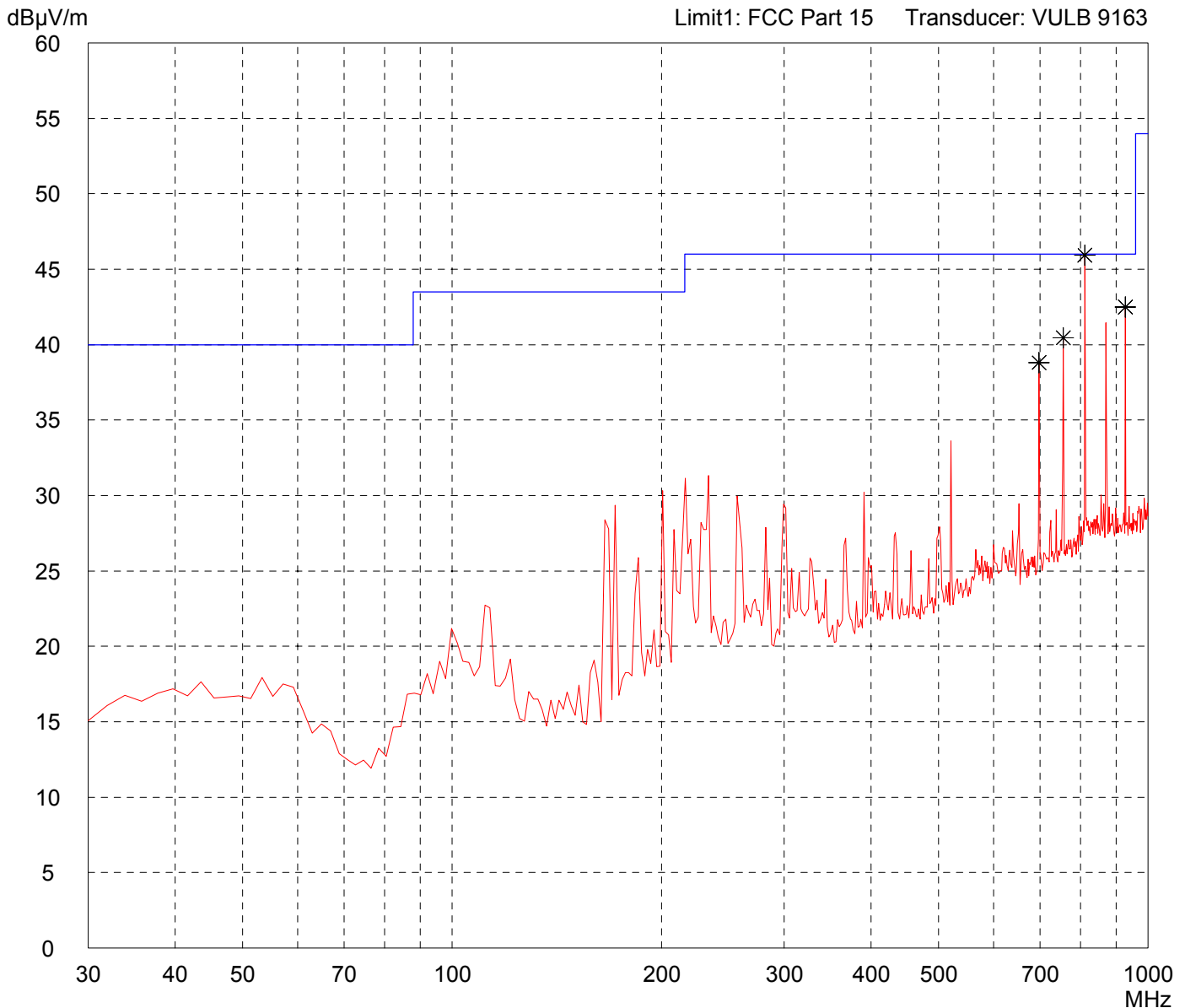


Result: Limit kept	Project file: 56109-61084-1
	Page of Pages

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

Model: AC4790-200M-485	Comment: - TX at 927.5 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/03/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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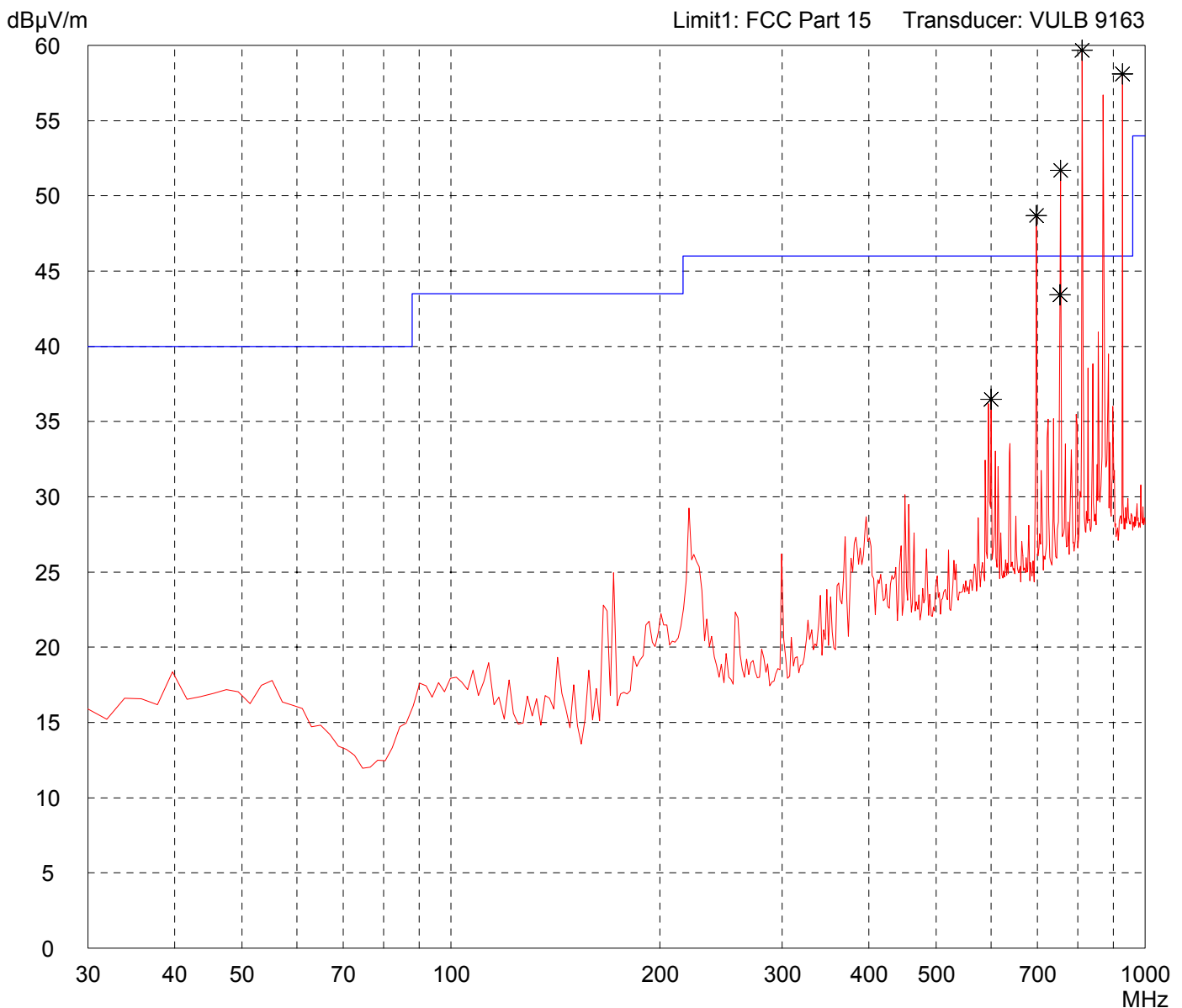


Result: Prescan	Project file: 56109-61084-1
	Page of Pages

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

Model: AC4790-200M-485	Comment: - TX at 927.5 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter at Fundamental frequency
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/03/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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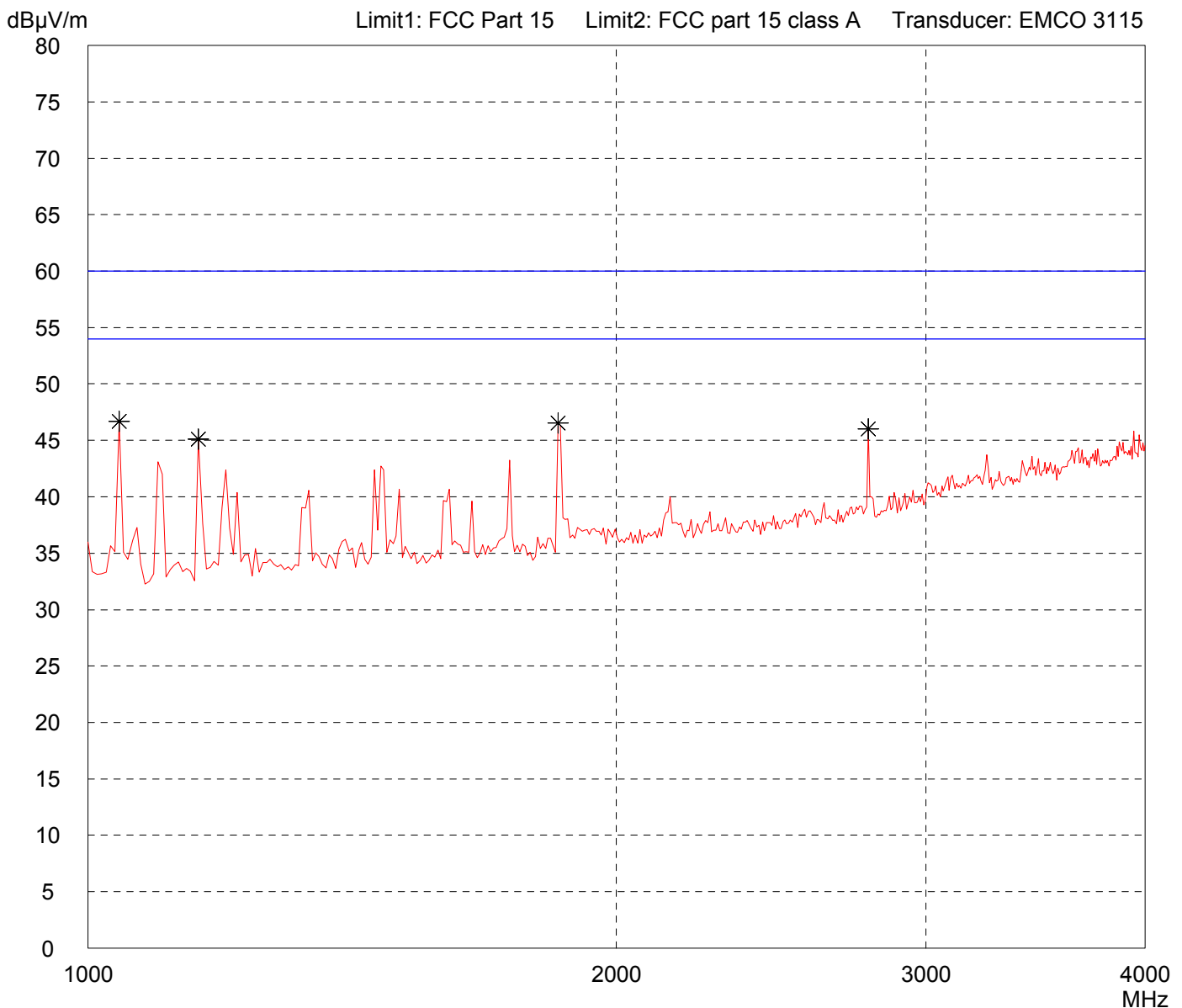


Result: Prescan	Project file: 56109-61084-1
	Page of Pages

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: AC4790-200M-485	Comment: - TX at 927.50 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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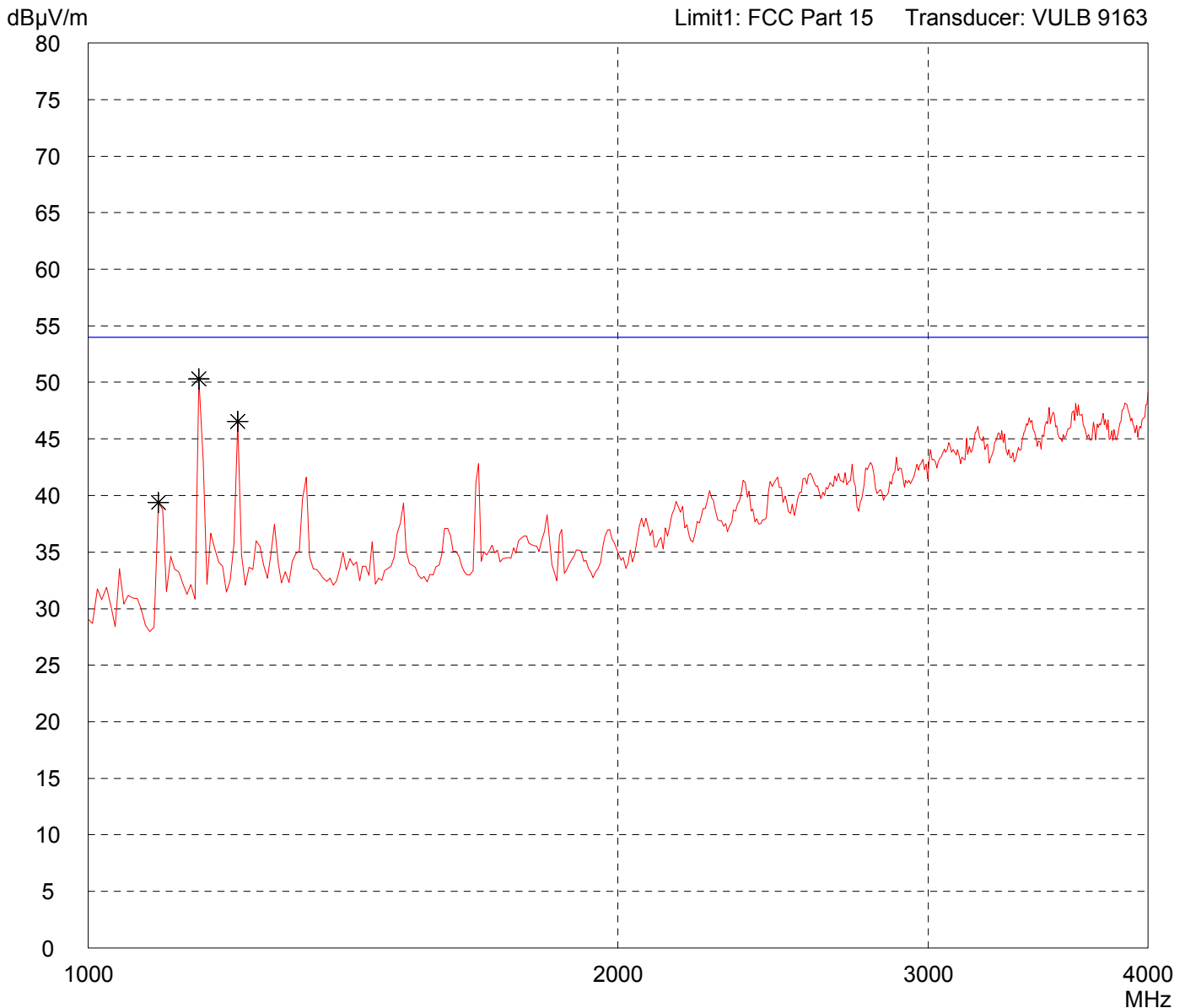


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (Fully Anechoic Chamber)

Model: AC4790-200M-485	Comment: - TX at High Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - Notch Filter on Fundamental Frequency
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 06/14/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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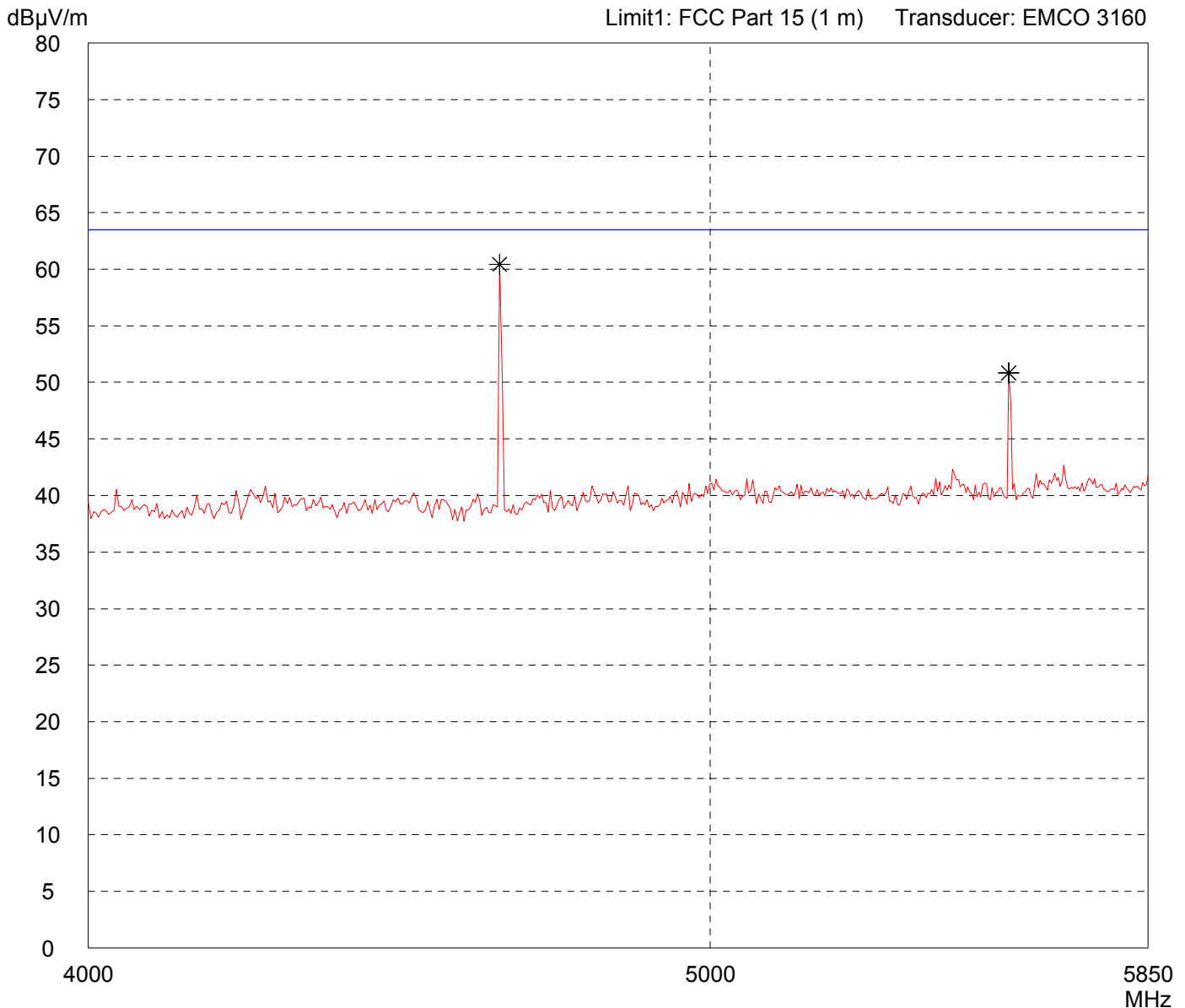


Result: Limit kept	Project file: 56109-61084-1
	Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at 927.50 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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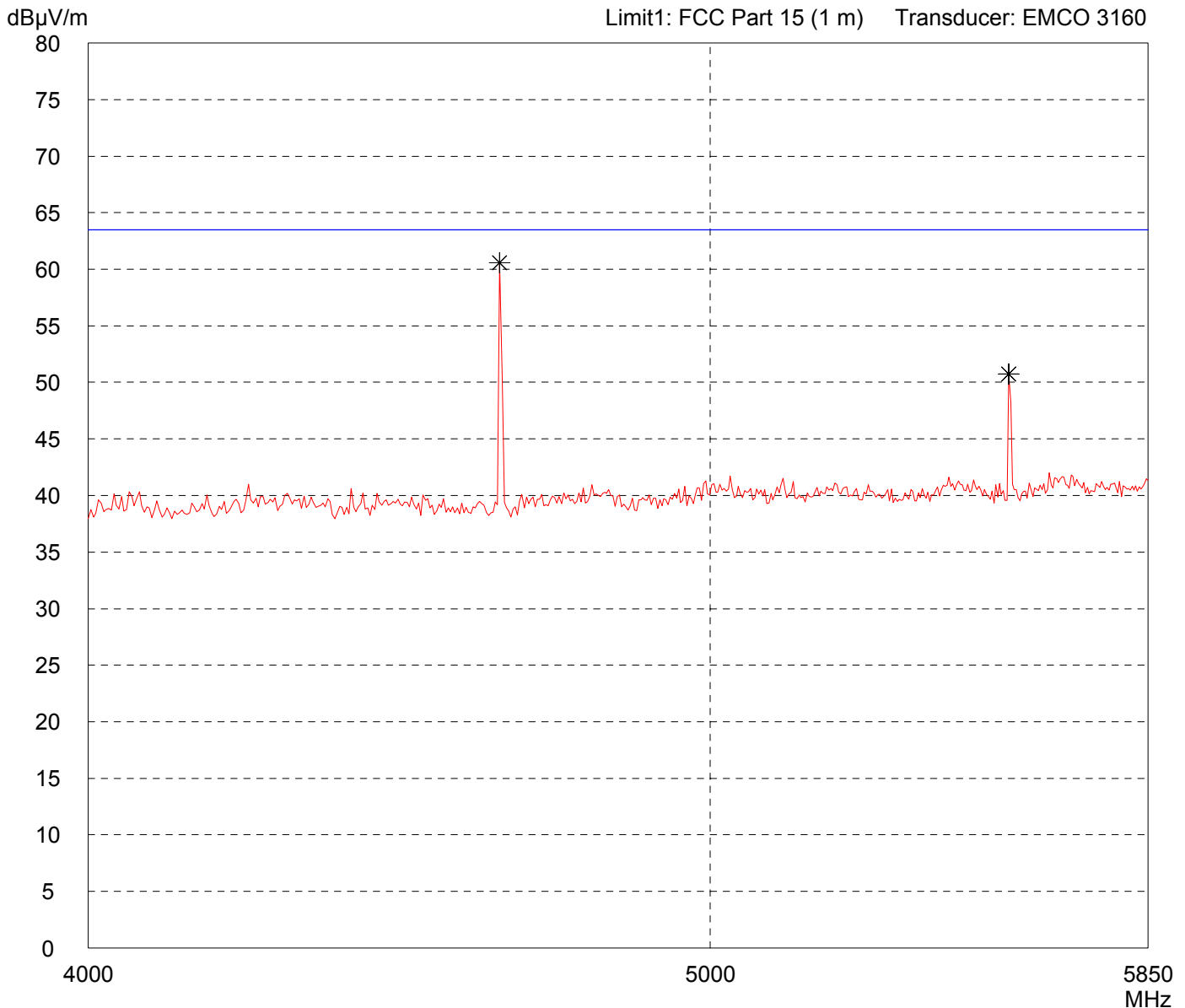


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at 927.50 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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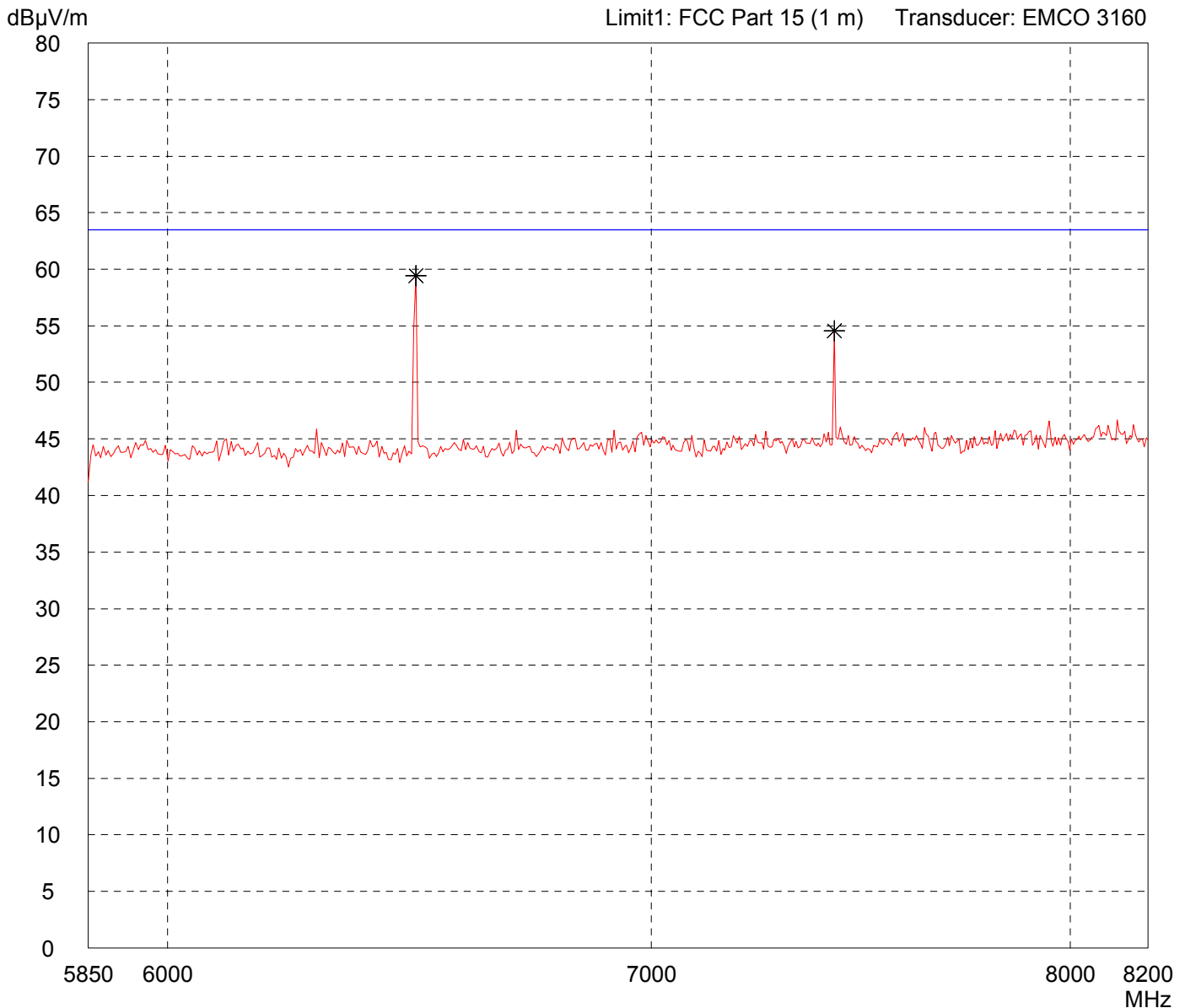


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at 927.50 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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

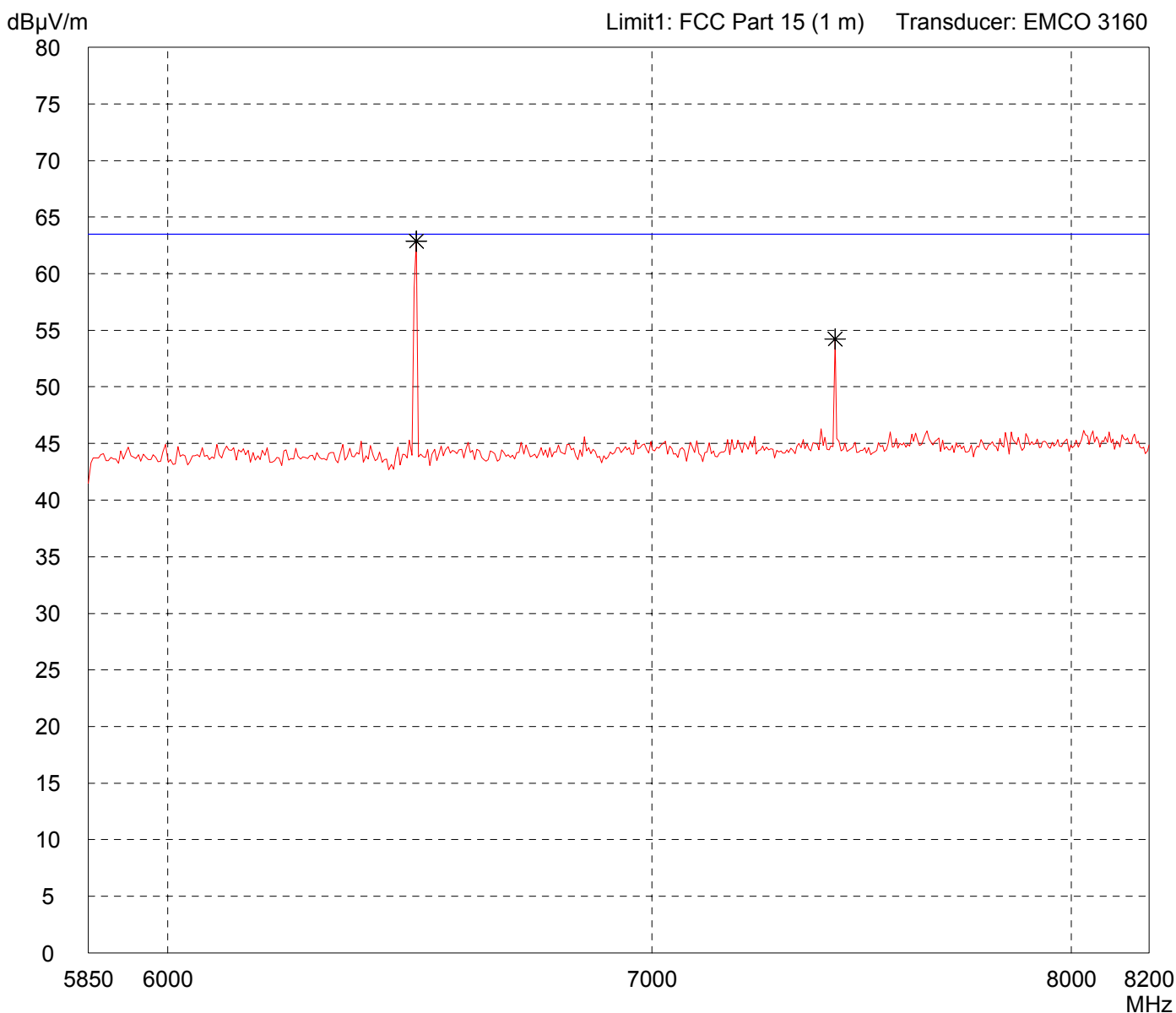


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 5.85 GHz - 8.2 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at 927.50 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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

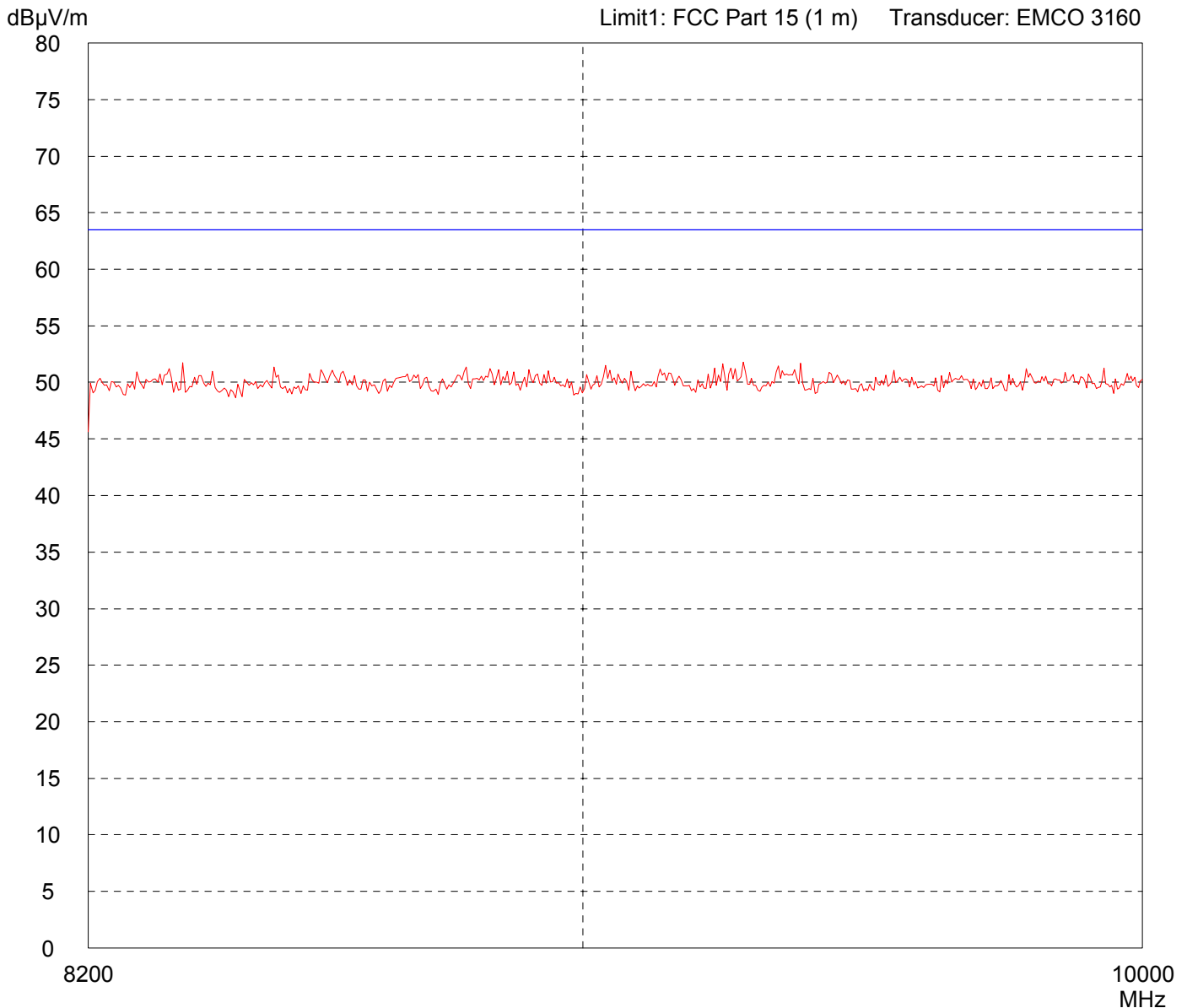


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at High Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - 3 GHz High Pass Filter
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 06/14/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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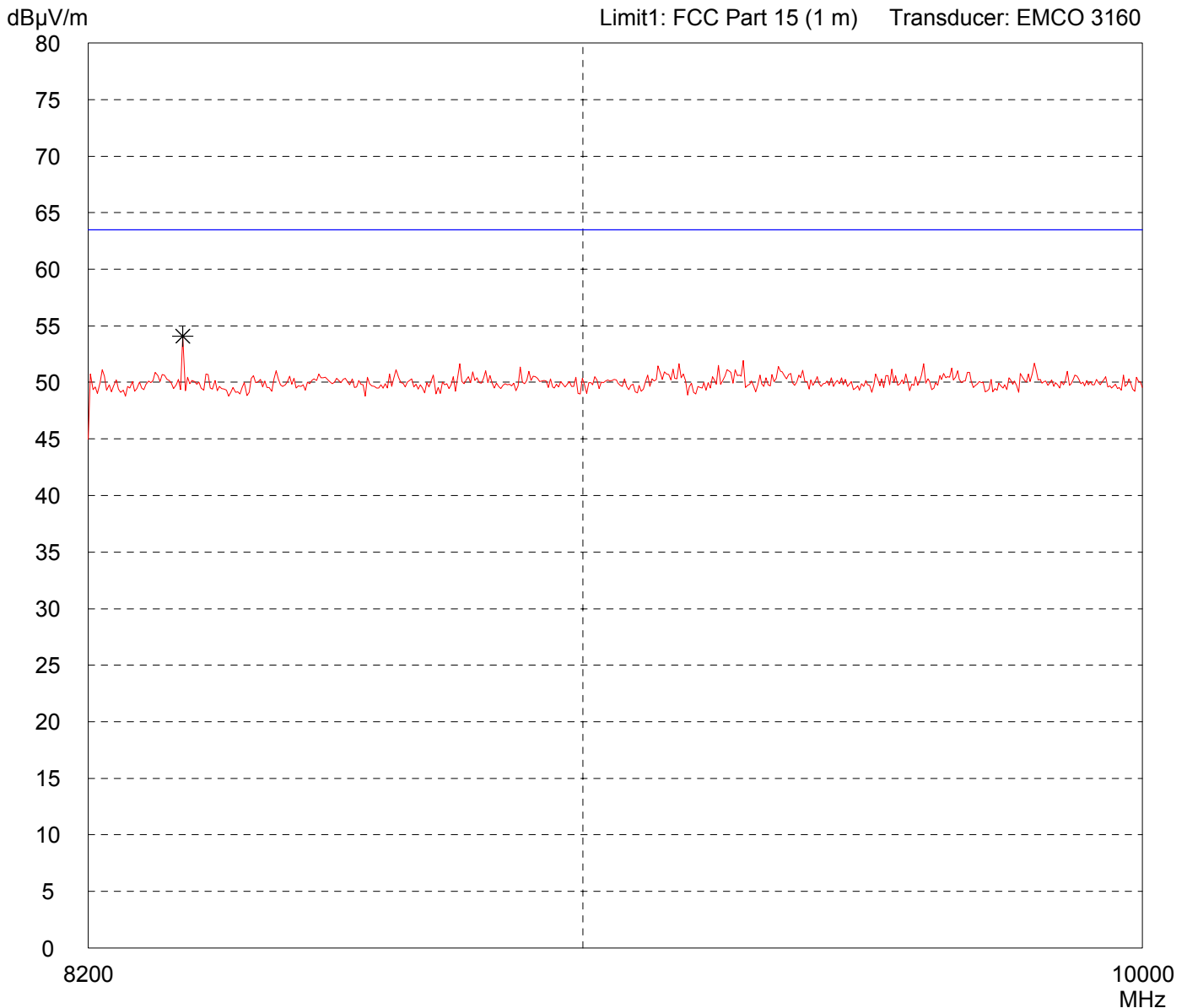


Result: Limit kept	Project file: 56109-61084-1
	Page of Pages

Radiated Emission Test 8.2 GHz - 10 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - TX at High Channel - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi) - 3 GHz High Pass Filter
Serial no.: Prototype	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 06/14/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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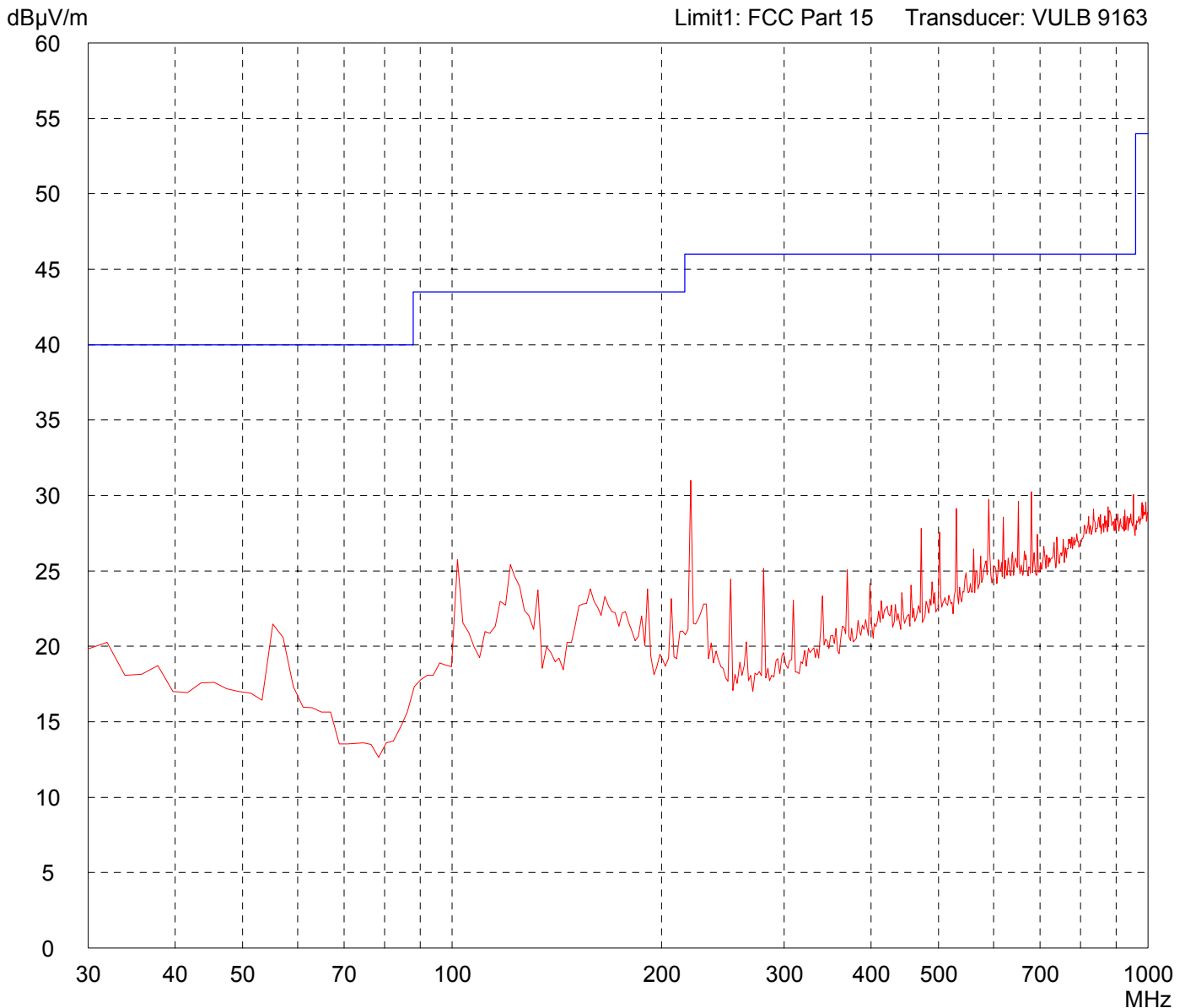


Result: Limit kept	Project file: 56109-61084-1
	Page of Pages

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

Model: AC4790-200M-485	Comment: - RX at 915.37 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/03/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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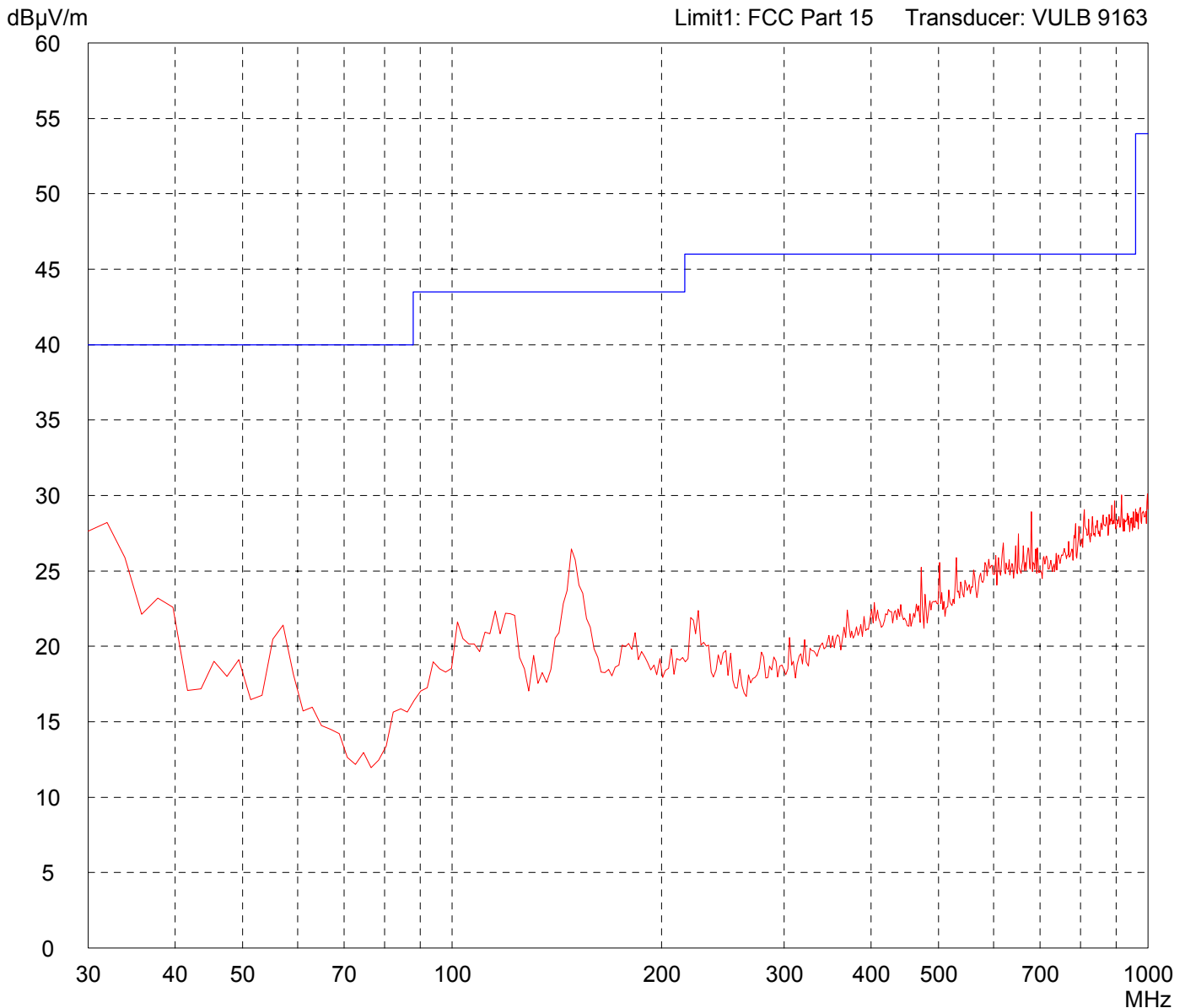


Result: Prescan	Project file: 56109-61084-1
	Page of Pages

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

Model: AC4790-200M-485	Comment: - RX at 915.37 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/03/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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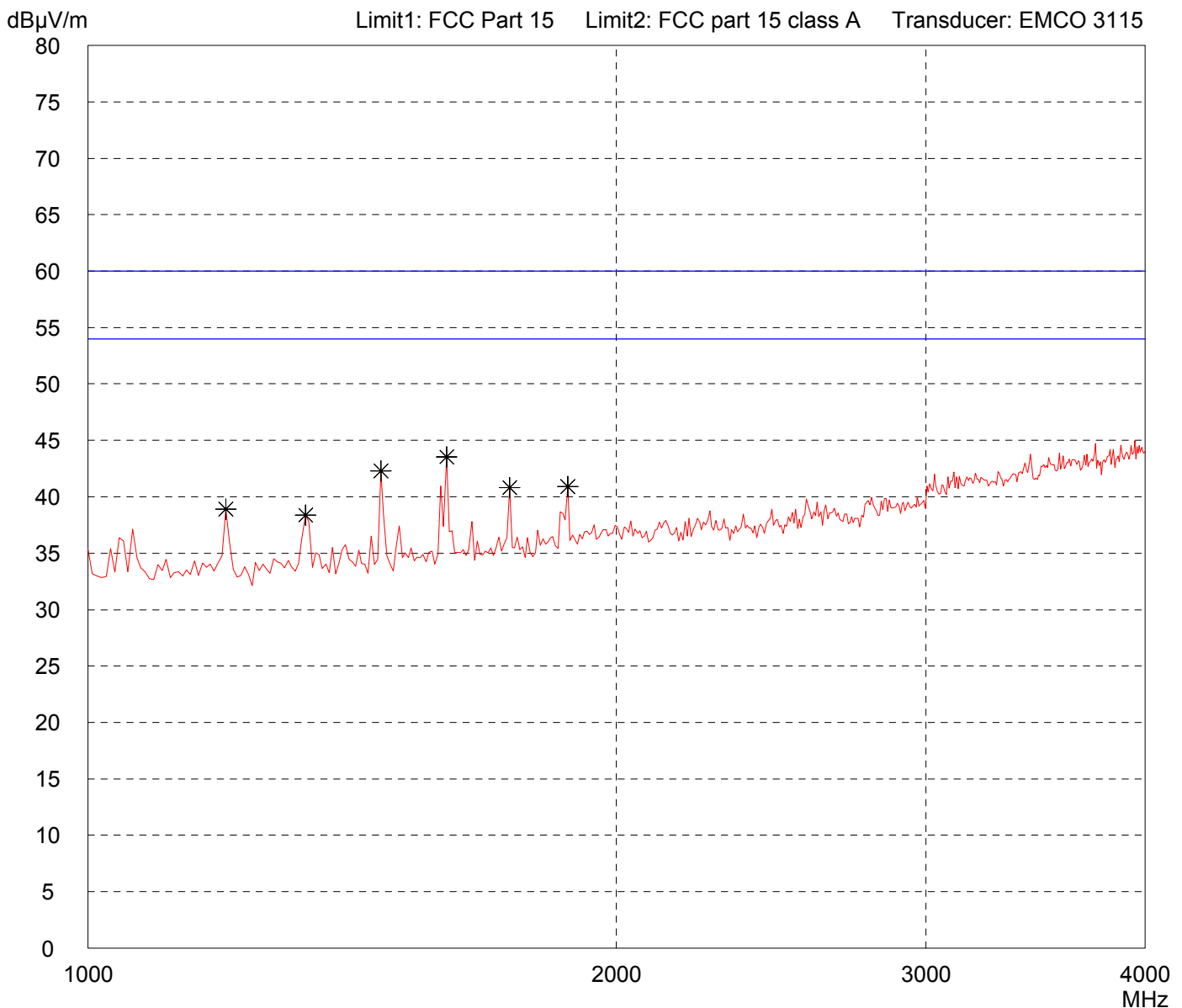


Result: Prescan	Project file: 56109-61084-1
	Page of Pages

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: AC4790-200M-485	Comment: - RX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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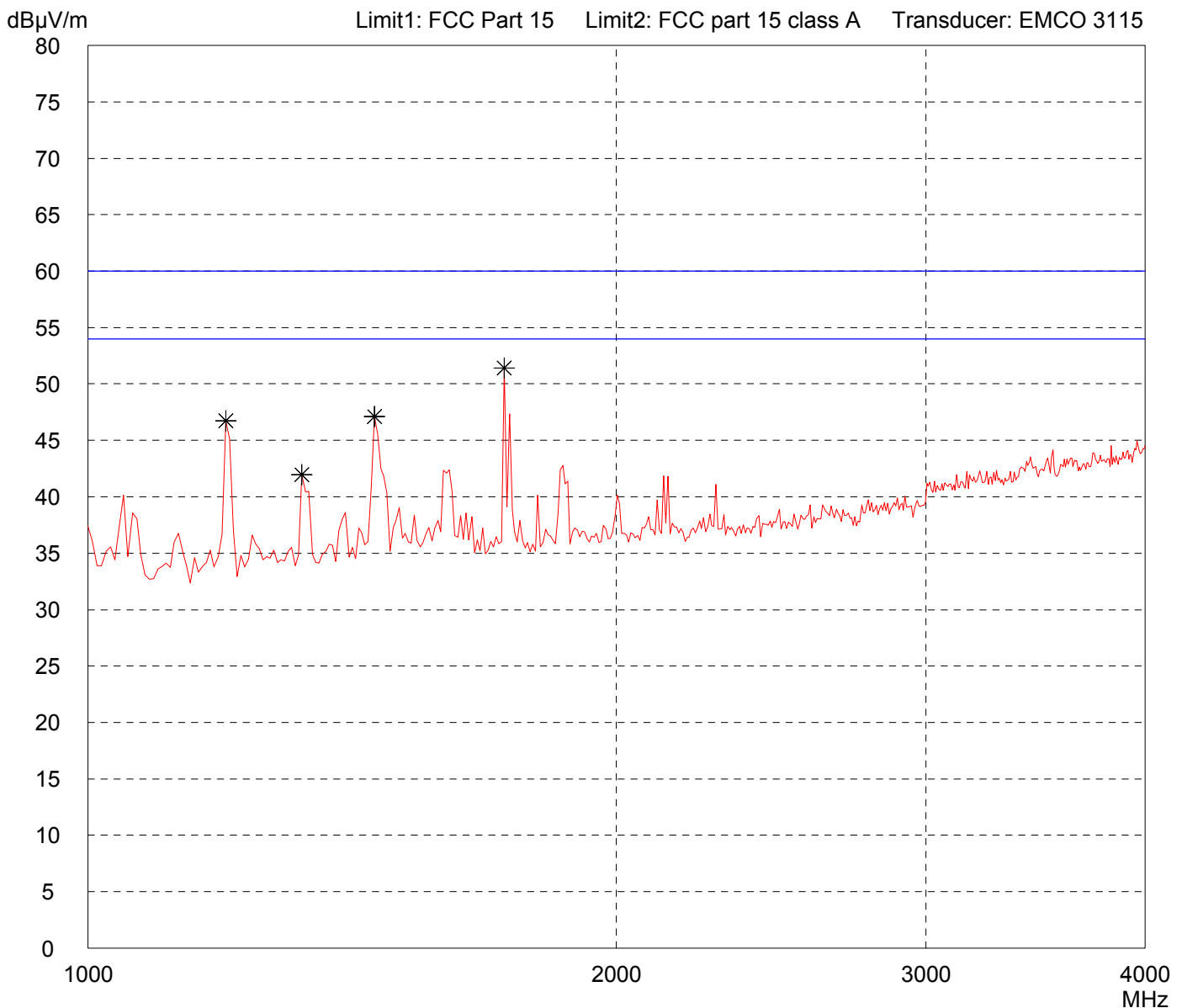


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 1 GHz - 4 GHz acc. to FCC Part 15 (EMCO 3115)

Model: AC4790-200M-485	Comment: - RX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: Selected by hand
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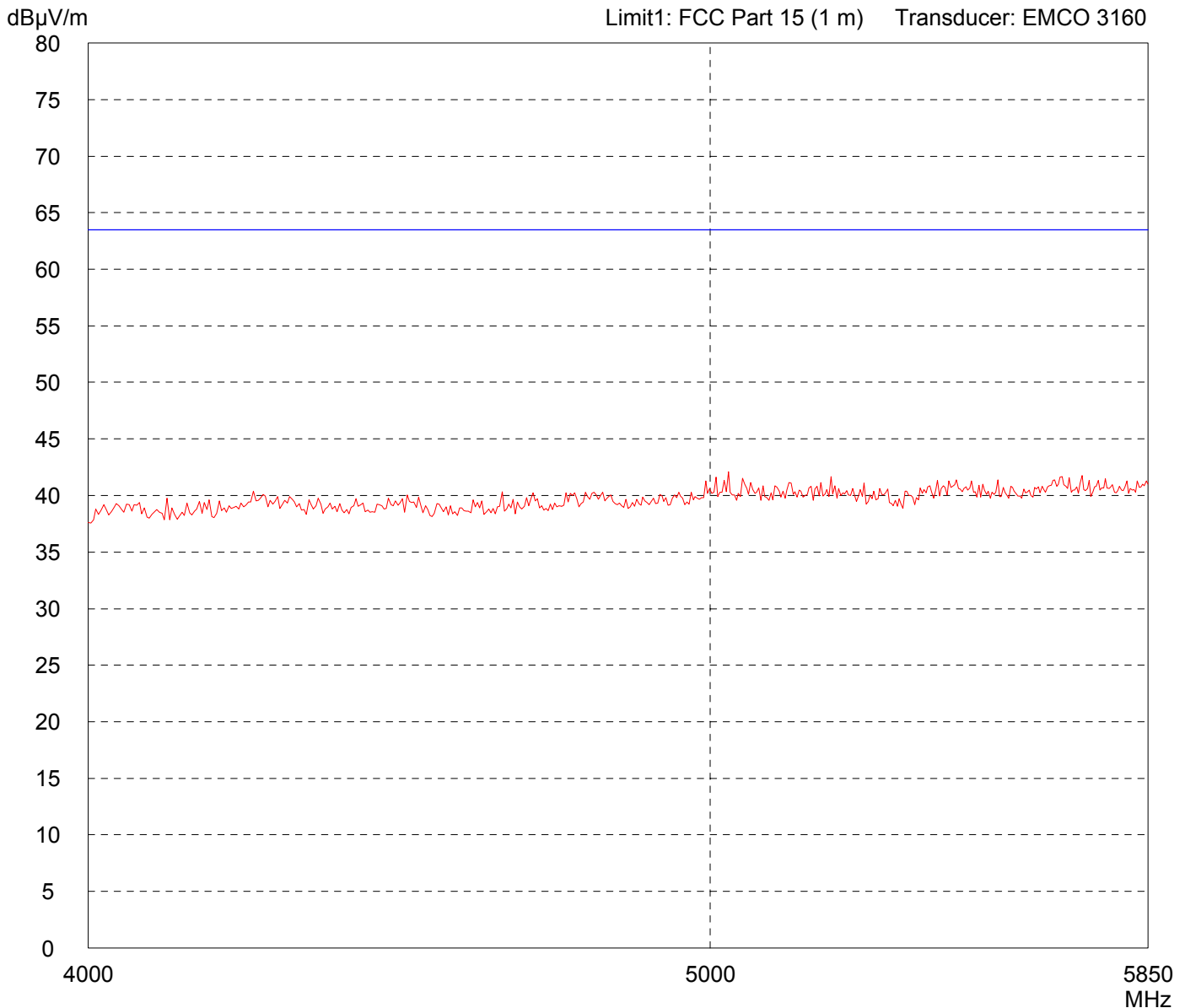


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - RX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

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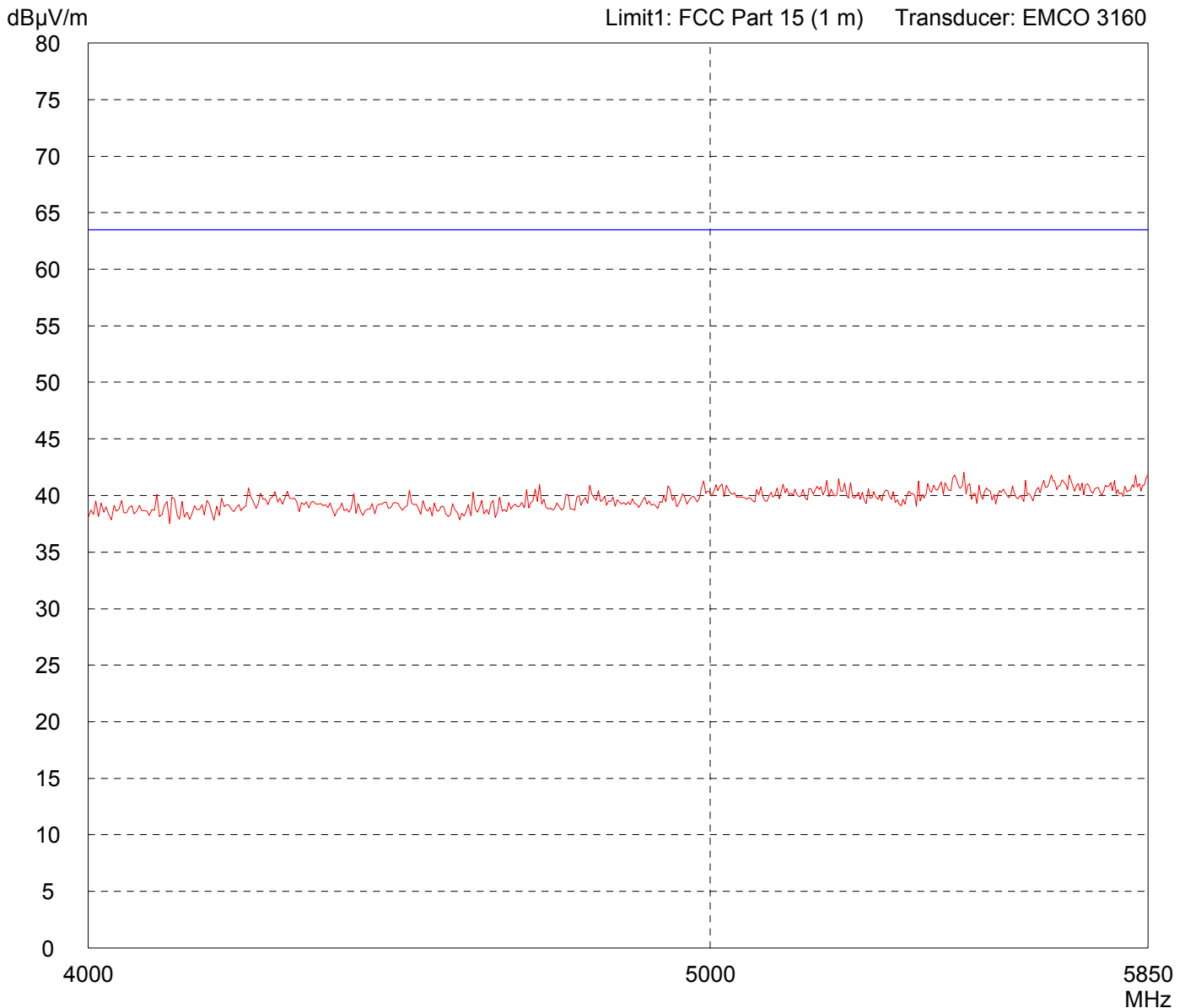


Result: Limit kept	Project file: 56409-61084
	Page of Pages

Radiated Emission Test 4 GHz - 5.85 GHz acc. to FCC Part 15 (EMCO 3160)

Model: AC4790-200M-485	Comment: - RX at 915.38 MHz - Antenna: Nearson SG101NT-915 (Nearson, 5 dBi)
Serial no.: Test Sample #1	
Applicant: AEROCOMM, Inc.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 01/23/2007	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Detector: Peak	List of values: 10 dB Margin 50 Subranges
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Result: Limit kept	Project file: 56409-61084 Page of Pages
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Conducted Emission Test 150 kHz - 30 MHz according to FCC Part 15 Subpart C

Model:
AC4790-200M-485

Serial no.:
Prototype

Applicant:
AEROCOMM, Inc.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord

Date of test:
29 Jan 2007

Operator:
J. Roidt

Test performed:
automatically

File name:

Mode:
TX at Middle channel

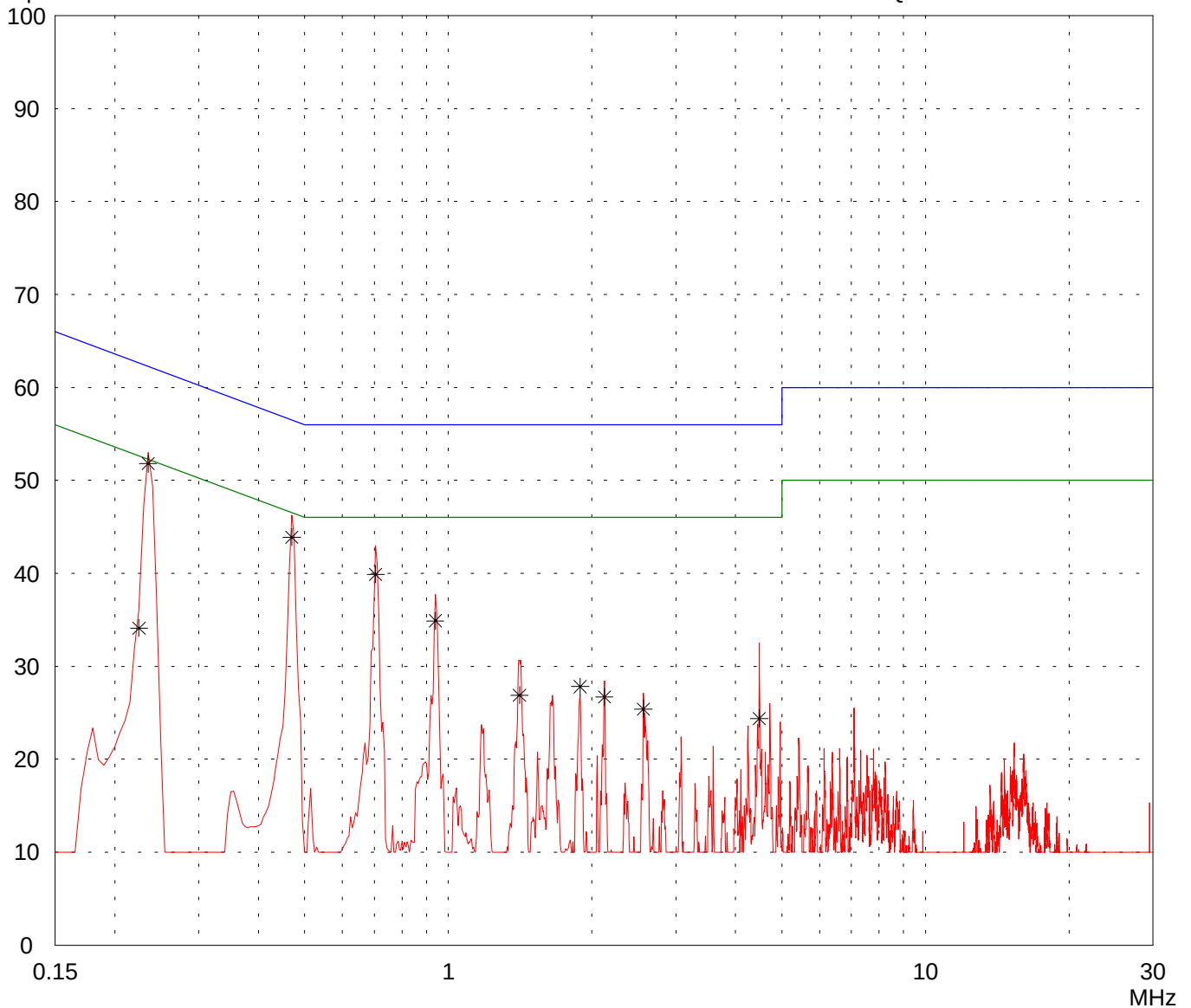
Detector:
Average / Final Results: AV

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP Limit2: FCC C / AV



Result:
Limit kept

Project file:
56109-061084-1

Page of Pages

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

Model:
AC4790-200M-485

Serial no.:
Prototype

Applicant:
AEROCOMM, Inc.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord

Date of test:
29 Jan 2007

Operator:
J. Roidt

Test performed:
automatically

File name:

Mode:
TX at Middle channel

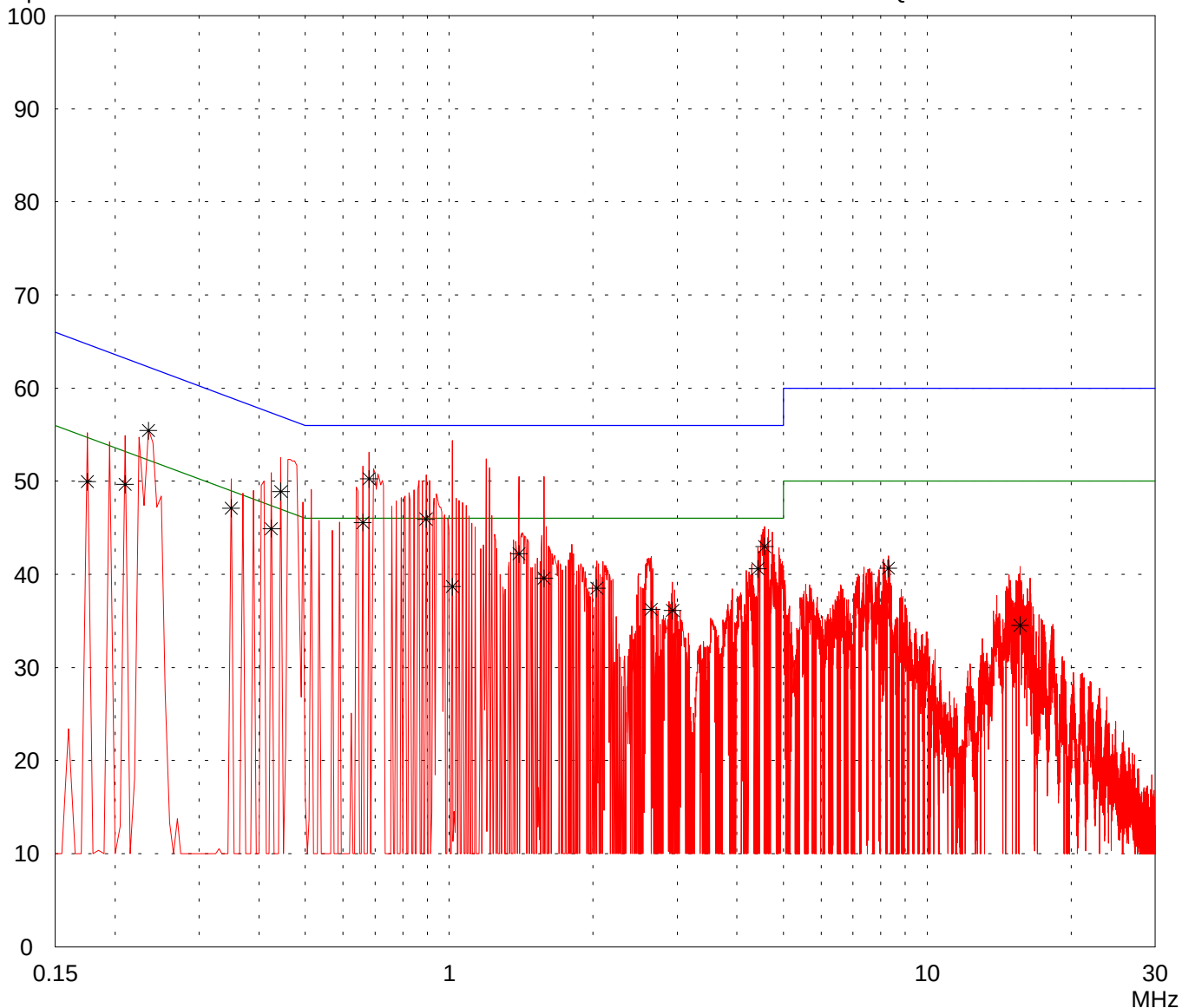
Detector:
Peak / Final Results: QP

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP Limit2: FCC C / AV



Result:
Limit kept

Project file:
56109-061084-1

Page of Pages

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

Model:
AC4790-200M-485

Serial no.:
Prototype

Applicant:
AEROCOMM, Inc.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord
Neutral Wire

Date of test:
29 Jan 2007

Operator:
J. Roidt

Test performed:
automatically

File name:

Mode:
TX at Middle channel

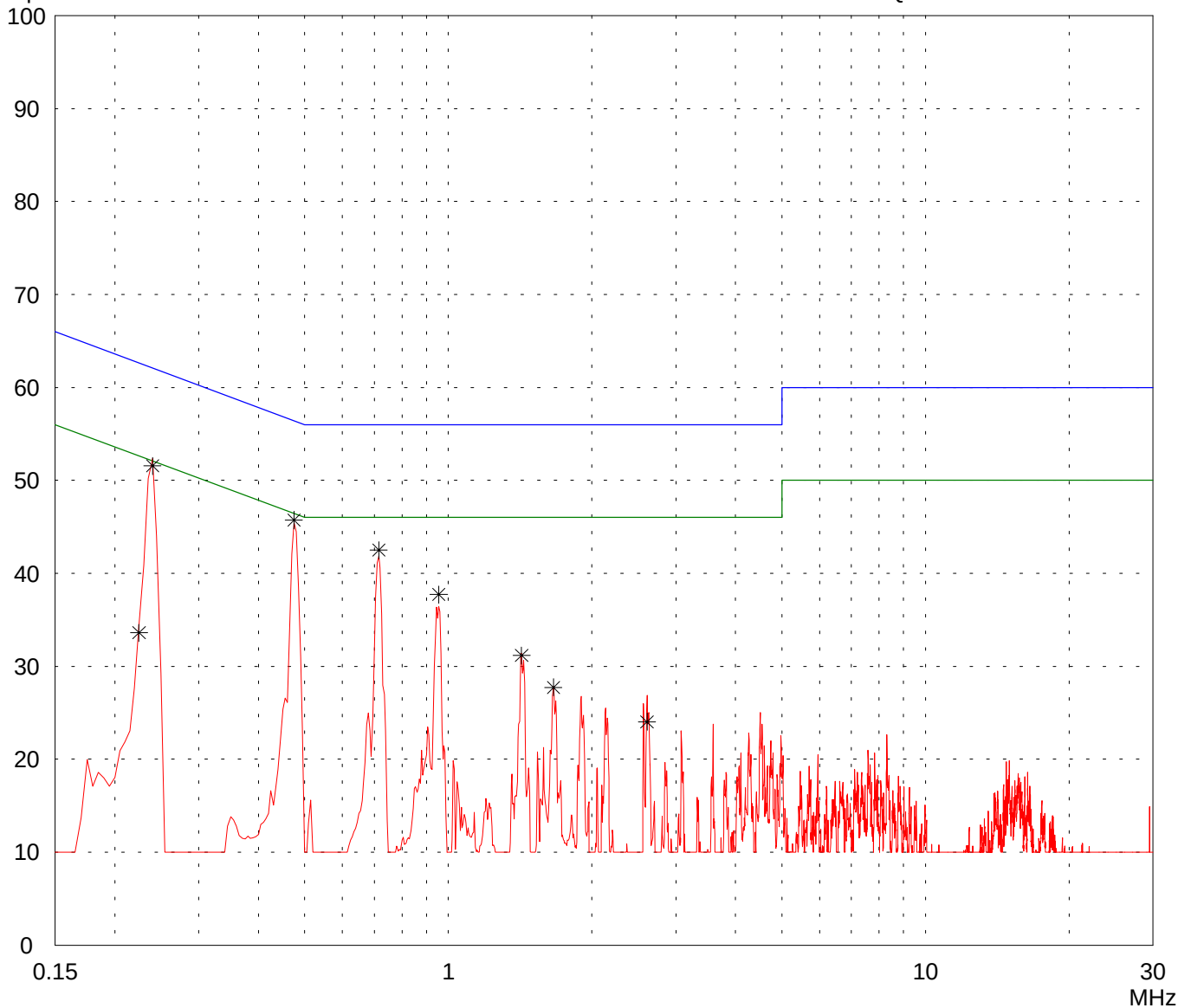
Detector:
Average / Final Results: AV

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP Limit2: FCC C / AV



Result:
Limit kept

Project file:
56109-061084-1

Page of Pages

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

Model:
AC4790-200M-485

Serial no.:
Prototype

Applicant:
AEROCOMM, Inc.

Test site:
Shielded room, cabin no. 1

Tested on:
Linecord
Neutral Wire

Date of test:
29 Jan 2007

Operator:
J. Roidt

Test performed:
automatically

File name:

Mode:
TX at Middle channel

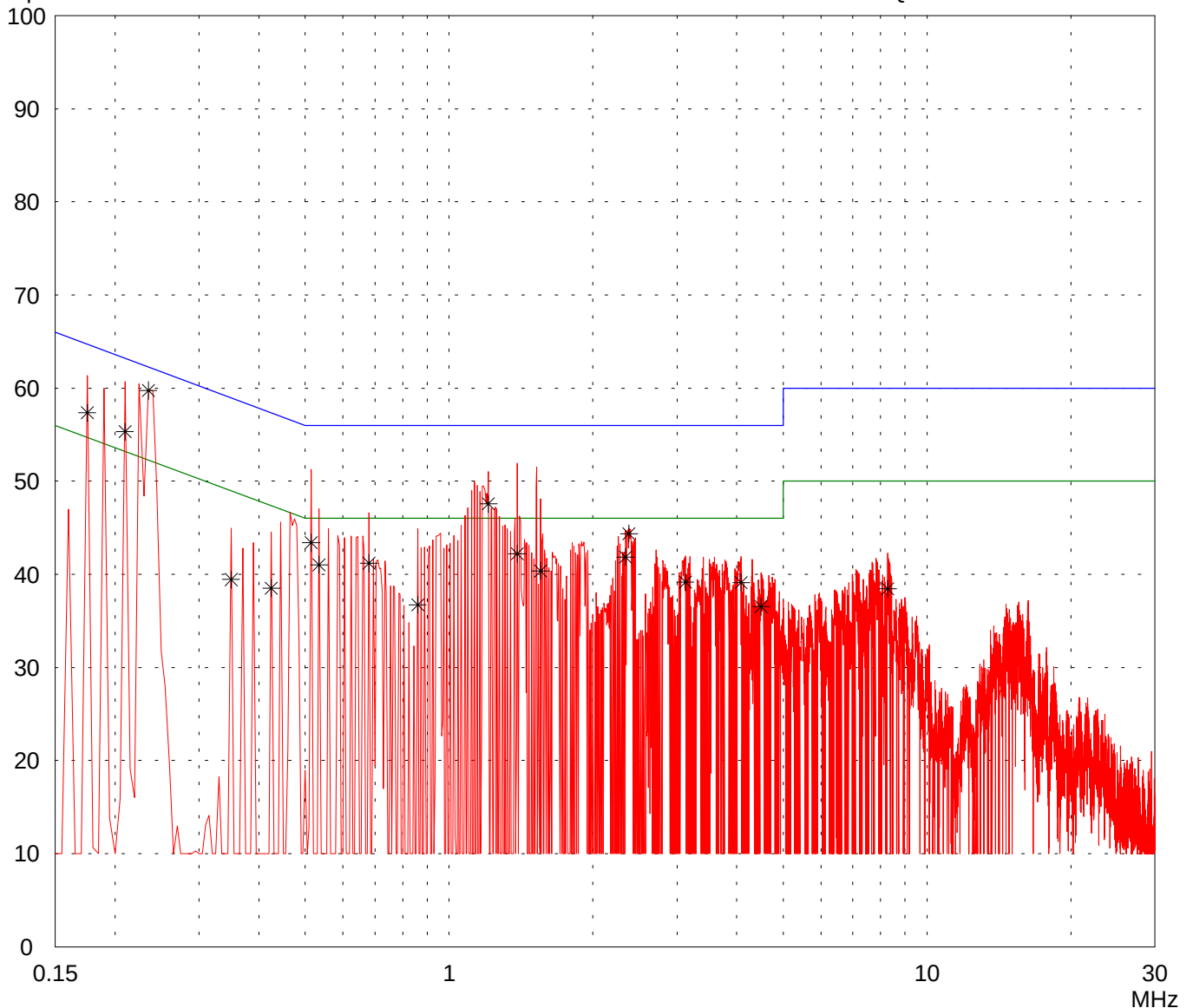
Detector:
Peak / Final Results: QP

Final results:
20 dB Margin

25 Subranges

dB μ V

Limit1: FCC C / QP Limit2: FCC C / AV



Result:
Limit kept

Project file:
56109-061084-1

Page of Pages