

Straubing, 16 September 2008

TEST-REPORT**No. 55608-080507-2 edition 1****for****IHF1700 Music**

including the variants:

T16YR81011**T16XS81011****T16TY81011****T16VL81011****T16MT81011****Bluetooth Wireless Handsfree Set**

Applicant: Motorola Ltd.

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.

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1. Description of the Equipment Under Test (EUT)

General data of EUT	
Type designation ¹ :	IHF1700 Music
Parts ² :	
Serial number(s):	
Manufacturer:	Motorola Ltd.
Type of equipment:	Bluetooth Handsfree System for Vehicles
Version:	as received
FCC ID:	
Additional parts/accessories:	

Technical data of EUT	
Application frequency range:	2400.0 - 2483.5 MHz
Frequency range:	2400 - 2483.5 MHz
Operating frequency:	2402 MHz, 2440 MHz 2480 MHz
Type of modulation:	FSK
Pulse train:	---
Pulse width:	---
Number of RF-channels:	79
Channel spacing:	1.0 MHz
Designation of emissions ³ :	
Type of antenna:	Integrated
Size/length of antenna:	PCB antenna
Connection of antenna:	<input type="checkbox"/> detachable <input checked="" type="checkbox"/> not detachable
Type of power supply:	DC supply
Specifications for power supply:	nominal voltage: 12.0 V minimum voltage: 10.8 V maximum voltage: 13.2 V

2. Identification of Test Laboratory

¹ Type designation of the system if EUT consists of more than one part.


² Type designations of the parts of the system, if applicable.

³ Also known as "Class of Emission".

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 Federal Regulations CFR 47, Part 15, Sections 15.107, 15.109, 15.205, 15.207,
15.215, 15.247 and 2.1093**
of the Federal Communication Commission (FCC) and the
**Radio Standards Specifications
RSS-Gen Issue 2, Sections 7.2.2, 7.2.3 and
RSS-210 Issue 7, Sections 2.2, 2.6 and A8 (Category I Equipment)**
of Industry Canada (IC).

3. Operation Mode of EUT

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

4. Configuration

Configuration of the EUT

A full test setup was supplied by the applicant

Cables connected to the EUT

Standard wiring harness, supplied by the applicant

Peripheral devices connected to the EUT

USWC Box

Test setup

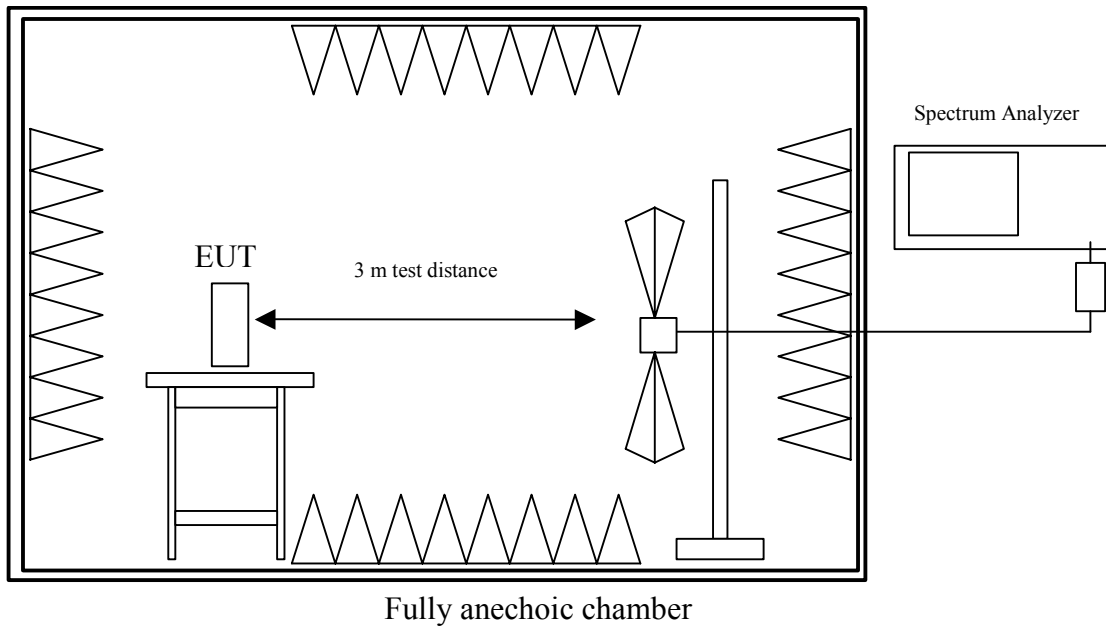


5. Measuring Methods

5.1. Mean power of 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.

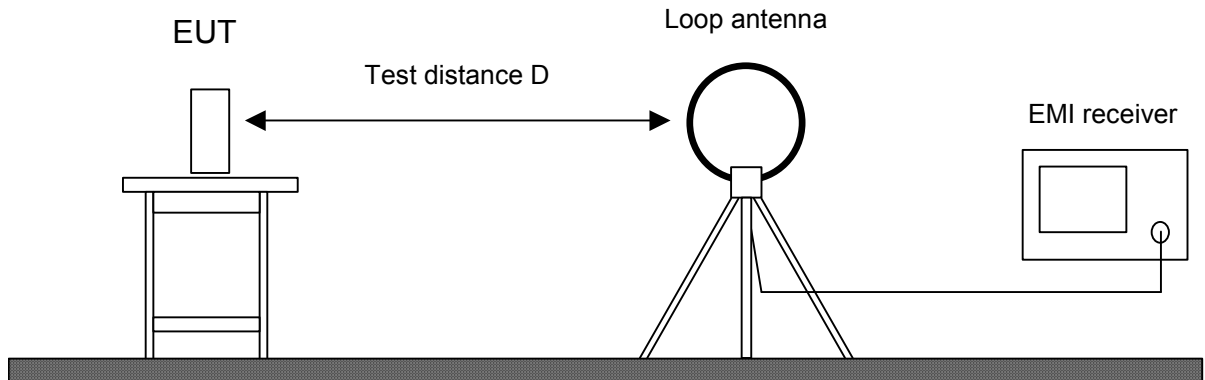


Test instruments used:

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

5.2. Radiated Emission Measurement 9 kHz to 30 MHz

Measurement Procedure:	
Rules and specifications:	CFR 47 Part 15, sections 15.205(b) and 15.247 IC RSS-210 Issue 7, sections 2.2(b)(c), 2.6 and A8.5
Guide:	ANSI C63.4
<p>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.</p> <p>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.</p> <p>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).</p> <p>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.</p> <p>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.</p>	



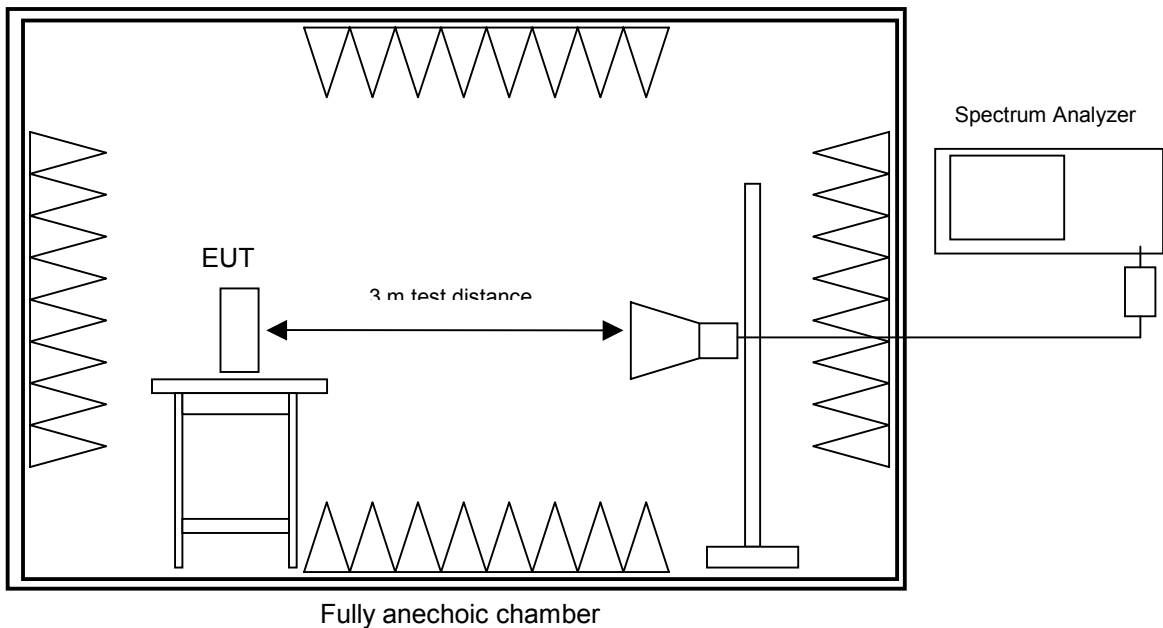
Test instruments used:

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

5.3. Radiated Emission > 1 GHz

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

Measurement Procedure:
<p>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.</p> <p>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.</p> <p>All tests are performed in a fully-anechoic chamber with a test-distance of 3 meters.</p> <p>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).</p>



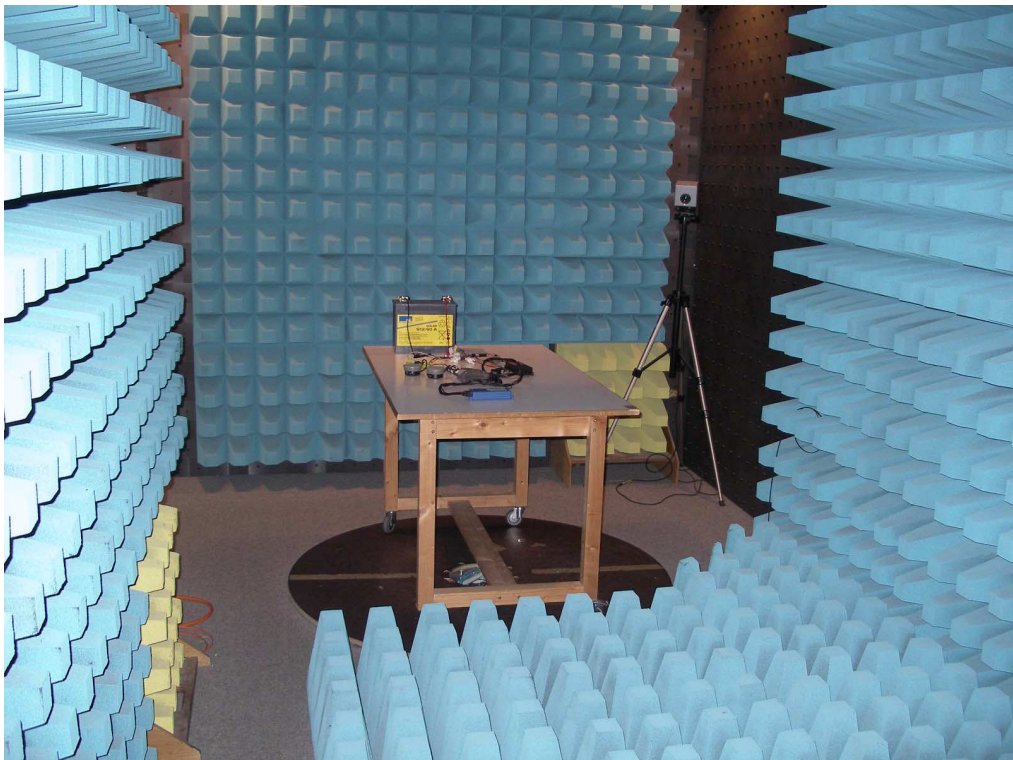
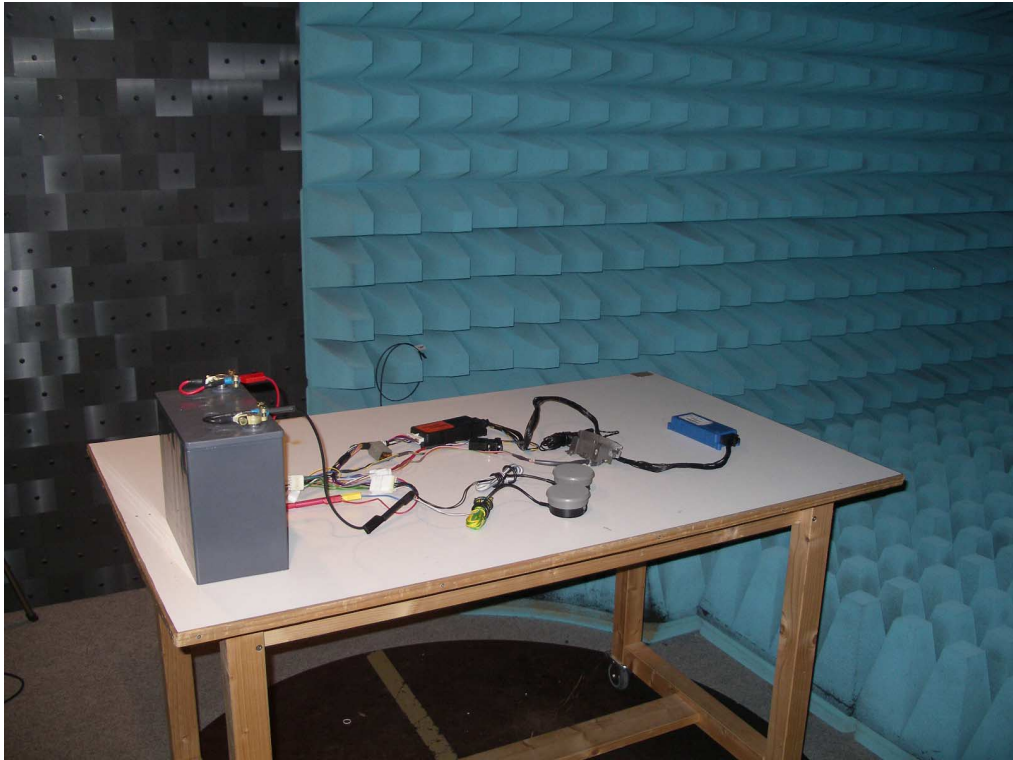
Test instruments used:

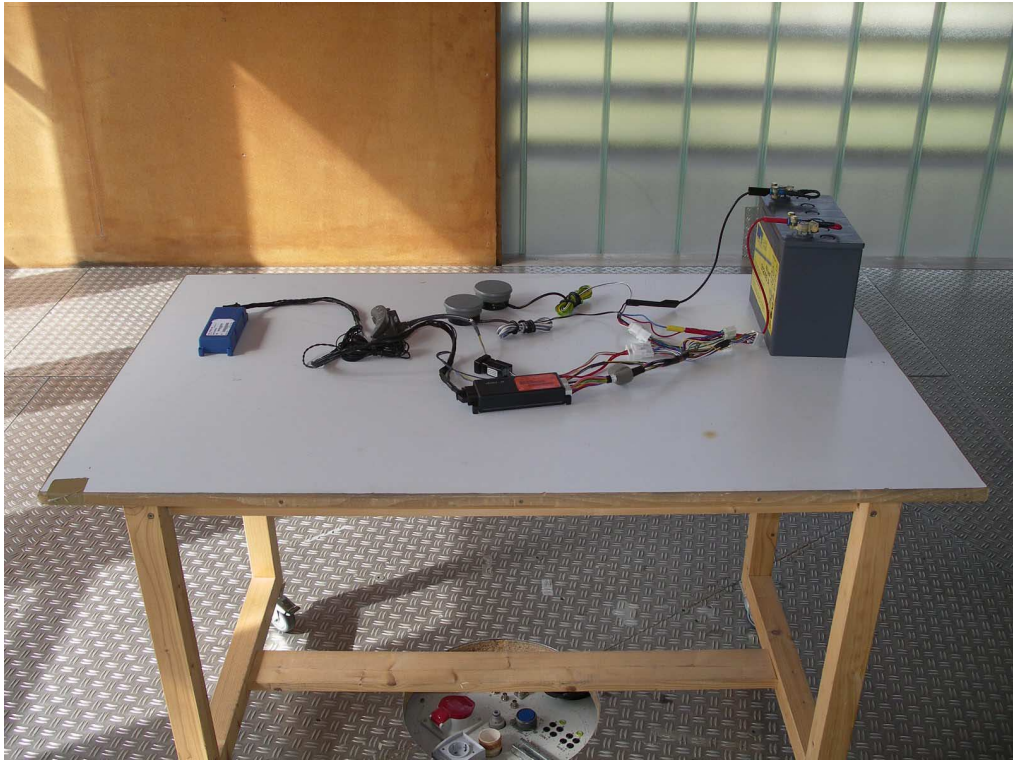
No.	Type	Model	Serial Number	Manufacturer
01	Spectrum Analyzer	FSP 30	100063	Rohde & Schwarz
145	Horn antenna	3115	9508-4553	EMCO
114	Preamplifier 1-8 GHz	AFS3-00100800-32-LN	847743	Miteq
003	Fully anechoic room	No. 2	1452	Albatross Projects

6. Photographs Taken During Testing

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







7. Test Results for Transmitter

FCC CFR 47 Parts 2 and 15			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
15.215(c)	Bandwidth of the emission		Test passed
2.201, 2.202	Class of emission		Calculated
15.35(c)	Pulse train measurement for pulsed operation	---	Not applicable
15.205(a)	Restricted bands of operation		Test passed
15.247(a)(1)(i)	Channel Bandwidth		Test passed
15.247(a)(1)	Hopping channel separation		Test passed
15.247(a)(1)(i)	Number of hopping frequencies used		Test passed
15.247(a)(1)(i)	Time occupancy on any channel		Test passed
15.247(b)(2)	Maximum peak output power		Test passed
15.207	Conducted AC powerline emission 150 kHz to 30 MHz		Test passed
15.247(d)	Conducted spurious emissions		Test passed
15.205(b) 15.247	Radiated emission 9 kHz to 30 MHz		Test passed
15.205(b) 15.215(b) 15.247(d)	Radiated emission 30 MHz to 25 GHz		Test passed
15.247(i) 2.1093	RF exposure requirement		Test passed
15.203	Antenna requirement		Test passed

IC RSS-Gen Issue 2			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
4.8	Transmitter output power (radiated)	---	Not applicable
4.6.1	Occupied Bandwidth		Recorded
3.2(h), 8	Designation of emissions		Calculated
4.5	Pulsed operation	---	Not applicable
7.2.2	Transmitter AC power lines conducted emissions 150 kHz to 30 MHz	---	Not applicable, vehicle application
5.5	Exposure of Humans to RF Fields		Exempted from SAR and RF evaluation

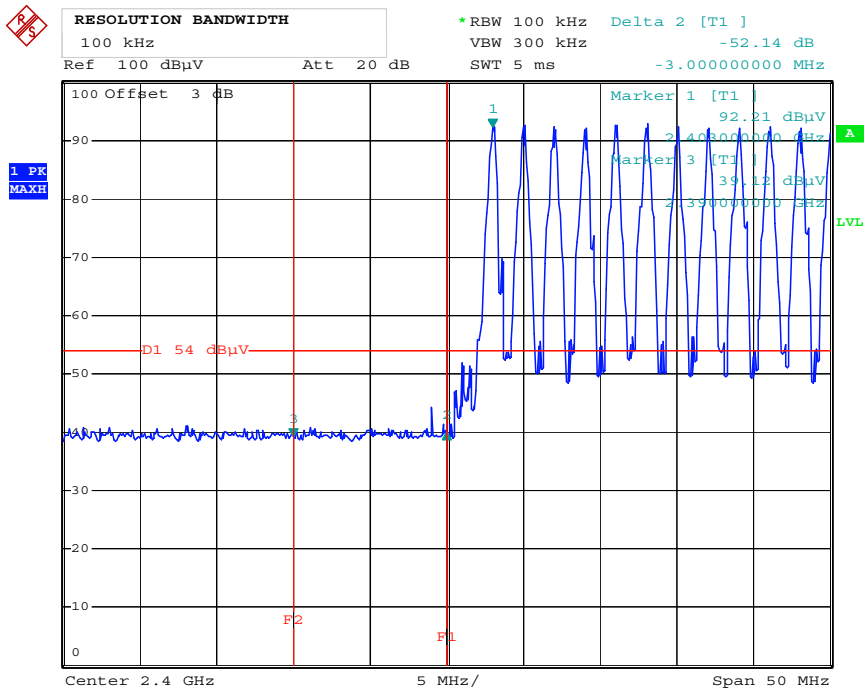
IC RSS-210 Issue 7			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
2.2(a)	Restricted bands and unwanted emission frequencies		Test passed
7.1.4	Antenna requirement	---	Integrated antenna
A8.1(c)	Channel bandwidth		Test passed
A8.1(b)	Hopping channel separation		Test passed
A8.1(c)	Number of hopping frequencies used		Test passed
A8.1(c)	Time occupancy on any channel		Test passed
A8.4(1)	Maximum output power		Test passed
2.2(b)(c) 2.6 A8.5	Unwanted emissions 9 kHz to 30 MHz		Test passed
2.2(b)(c) 2.6 A8.5	Unwanted emissions 30 MHz to 25 GHz		Test passed

Restricted Bands of Operation

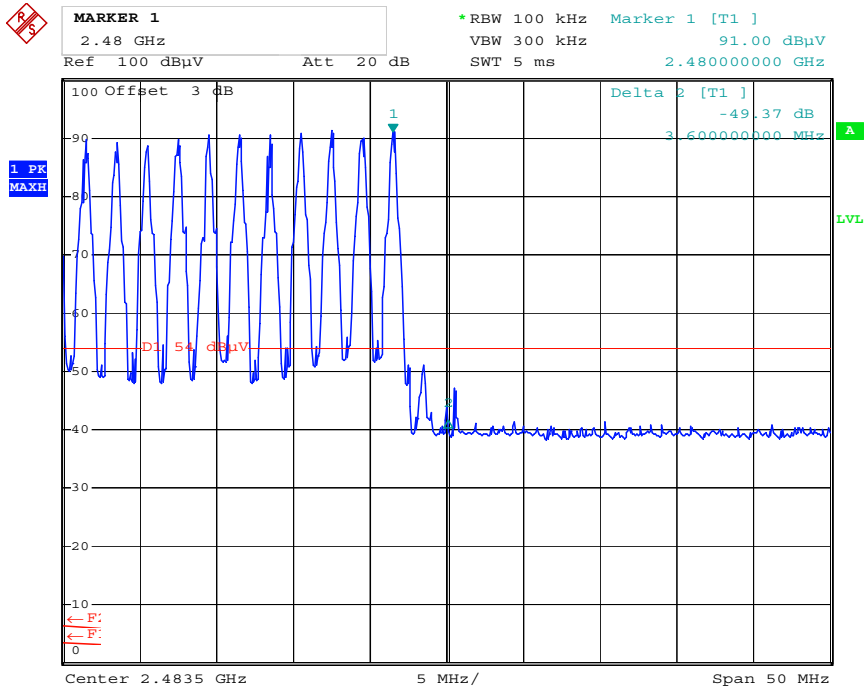
Rules and specifications:	CFR 47 Part 15, section 15.205(a) IC RSS-210 Issue 7, section 2.2(a)
Guide:	ANSI C63.4
Limit:	Only spurious emissions are permitted in any of the frequency bands listed in CFR 47 Part 15, section 15.205(a) or IC RSS-210 Issue 7, section 2.2(a).
Measurement procedure:	

Comment:	
Date of test:	18 September 2008
Test site:	Fully anechoic room, cabin no. 2
Test distance:	3 meters

Test Result:	Test passed
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Date: 18.SEP.2008 11:04:53



Date: 18.SEP.2008 11:07:52

Channel Bandwidth

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:	Fully Anechoic Chamber.
Distance:	Radiated Measurement
Date of Test:	15 July 2008

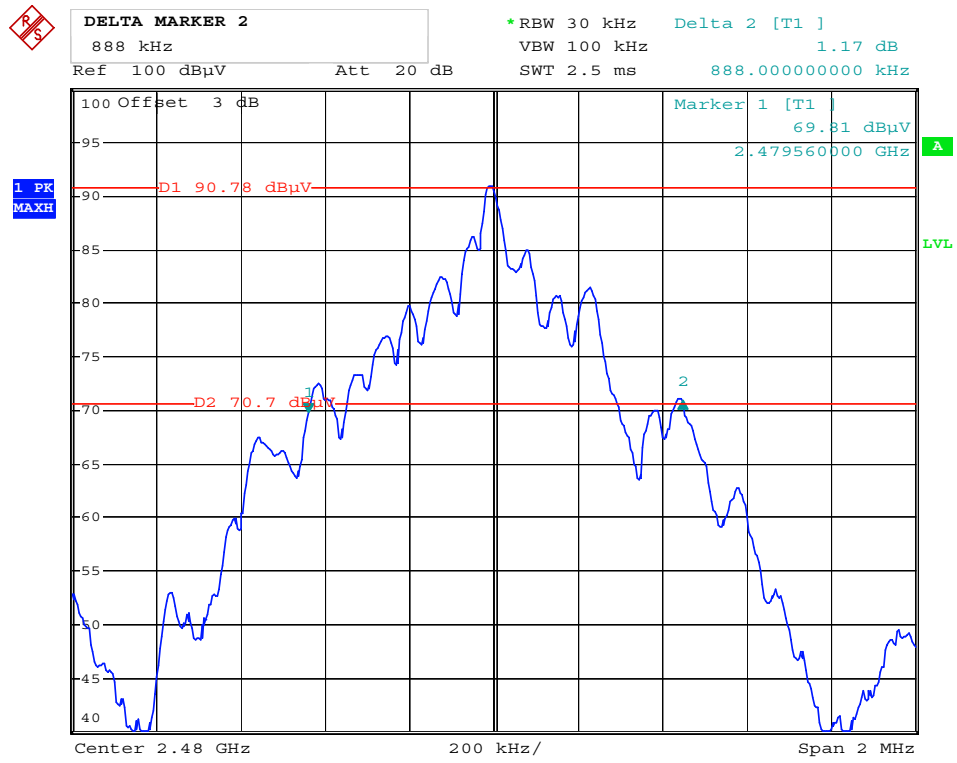
Frequency	Channel Bandwidth in kHz	Standard	Result
Low (2402 MHz)	868	< 1 MHz	pass
Middle 2441 MHz	872	< 1 MHz	pass
High 2480 MHz	888	< 1 MHz	pass



Date: 18.SEP.2008 11:29:35



Date: 18.SEP.2008 11:45:07



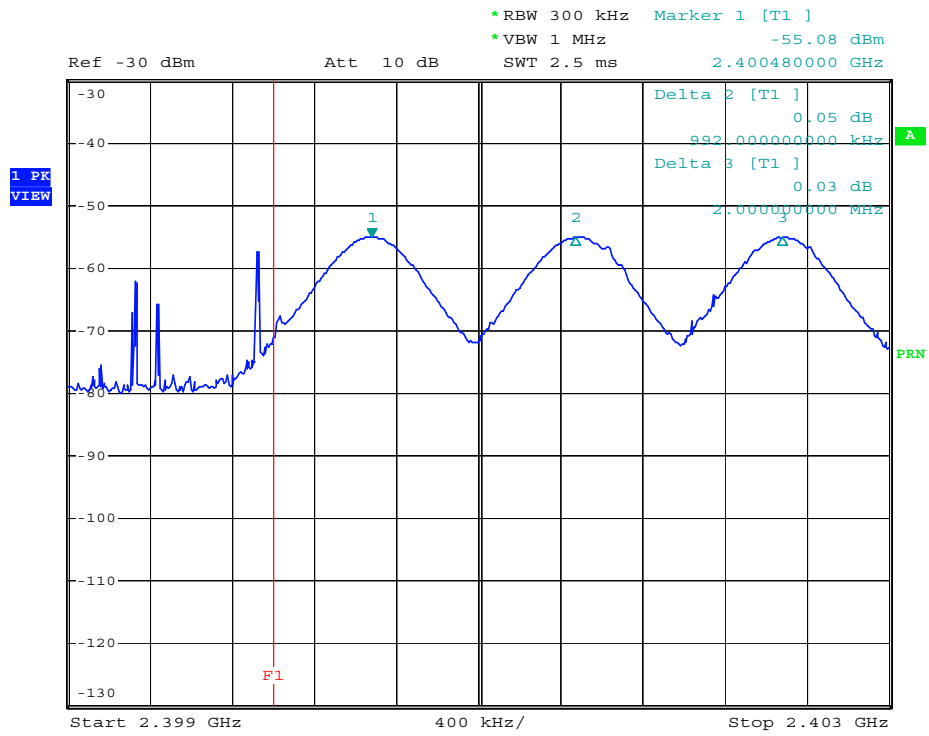
Date: 18.SEP.2008 11:22:47

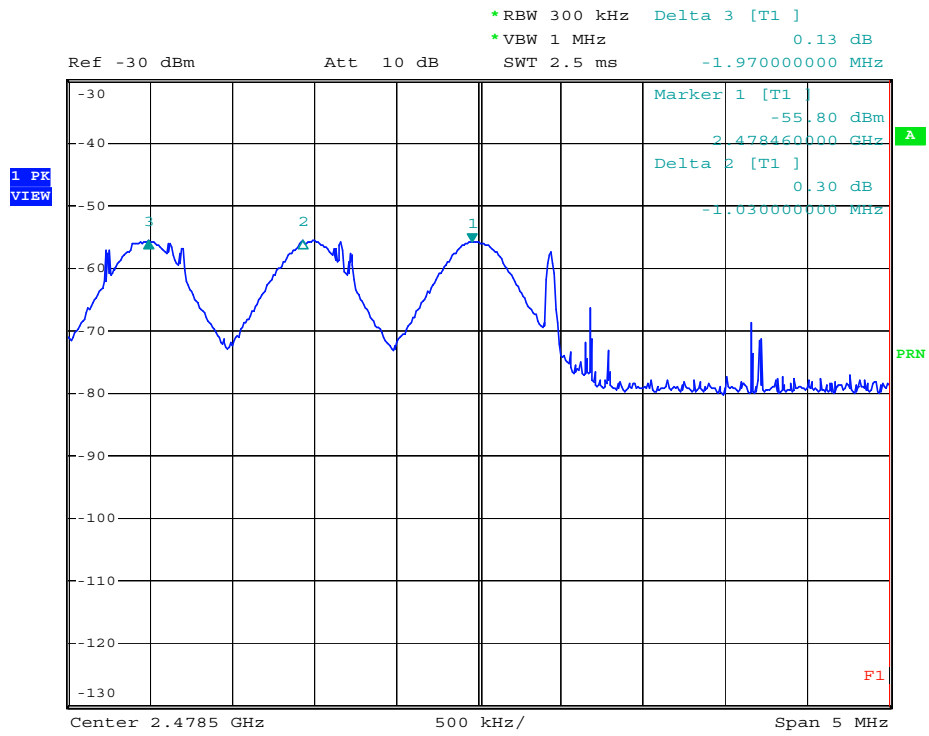
Hopping Channel Separation

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:	Fully Anechoic Chamber
Distance:	Radiated Measurement
Date of Test:	15 July 2008

Channel Frequency	Measured	Required	Result
2402 MHz	0.992 MHz	> 868	Pass
2441 MHz	1.000 MHz	> 872	Pass
2480 MHz	1.030 MHz	> 888	Pass



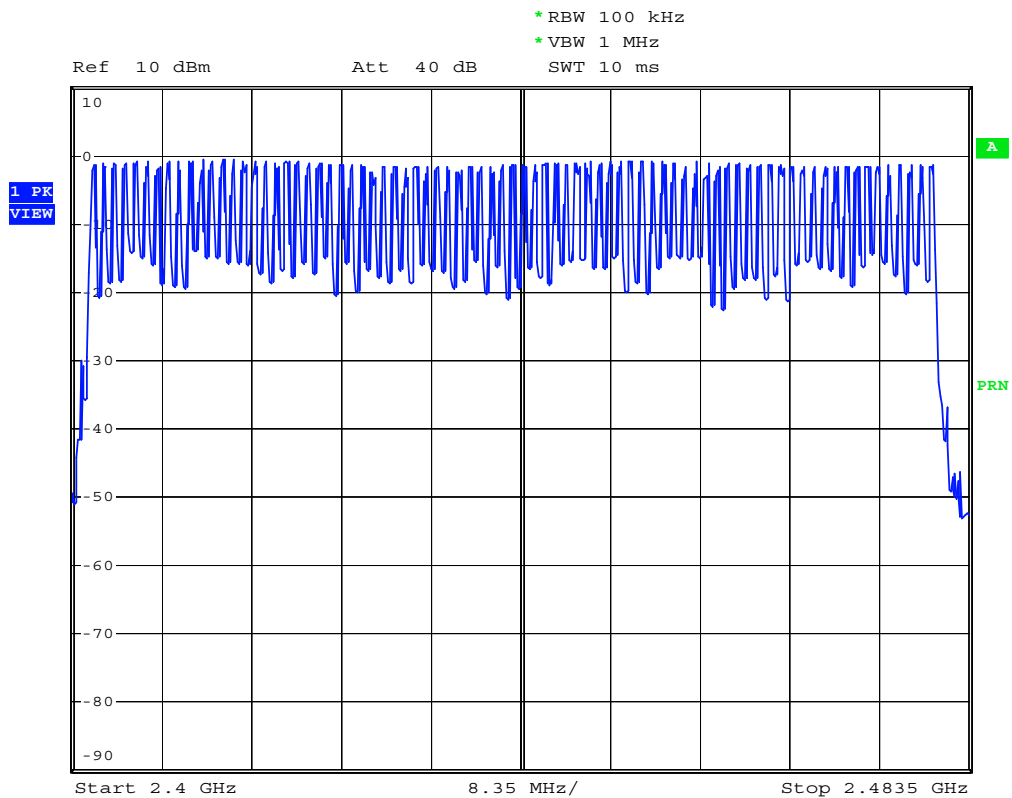


Number of Hopping Frequencies used

Rules and Specifications:	15.247 (a) (1) (iii)
Guide:	ANSI C63.4
Limit:	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 non-overlapping channels.

Test Site:	Fully Anechoic Chamber
Distance:	Radiated Measurement
Date of Test:	15 July 2008

Number of Hopping Frequencies		Result
Measured	Required	
79	15	Pass

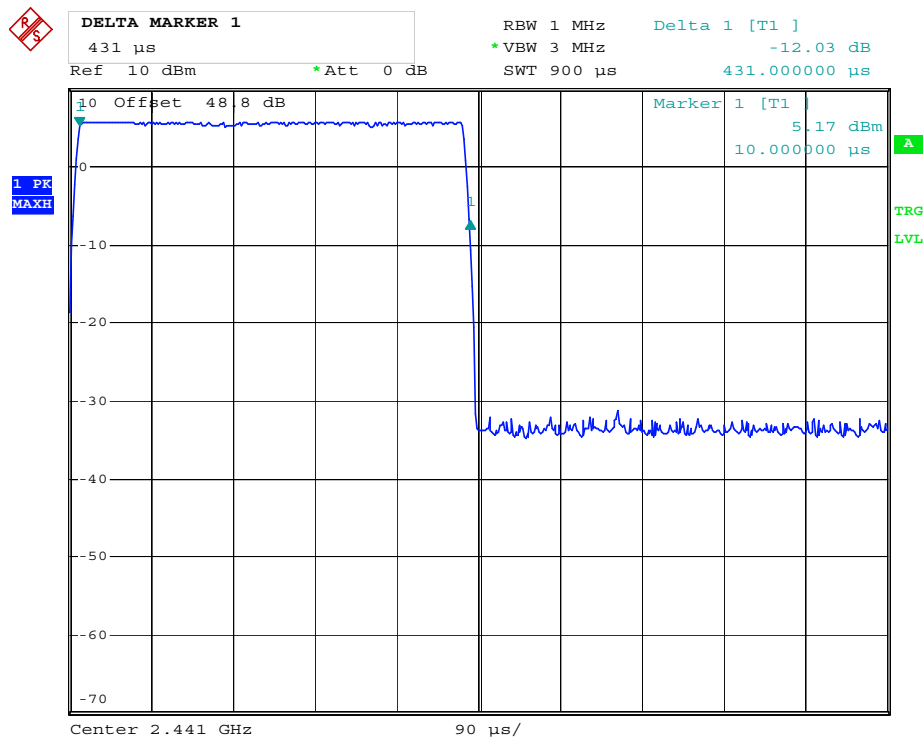


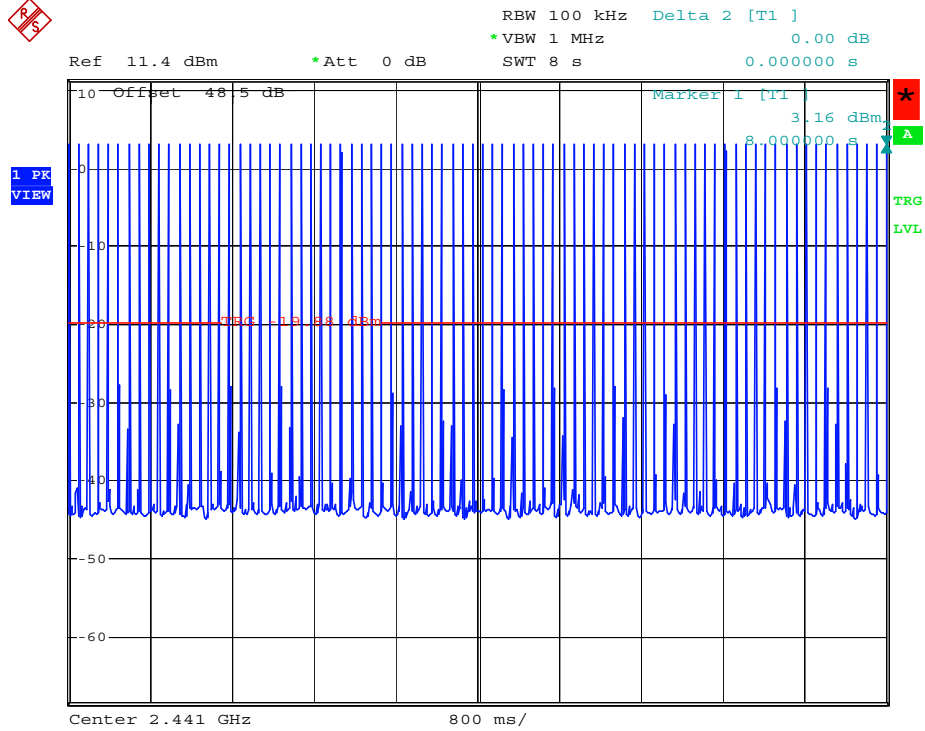
Time Occupancy on any Channel

Rules and Specifications:	15.247 (a) (1) (iii)
Guide:	ANSI C63.4
Limit:	The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

Test Site:	Fully Anechoic Chamber.
Distance:	Radiated Measurement
Date of Test:	10 July 2008

Time occupancy	Measured	Required	Result
	300 x 0.431 ms = 129.3 ms within a 30 seconds period	< 0.4 seconds within a 30 second period	Pass





Comment A: TÜV 40522: Bandwidth of emission
Date: 24.AUG.2004 18:47:17

Maximum Peak Output Power

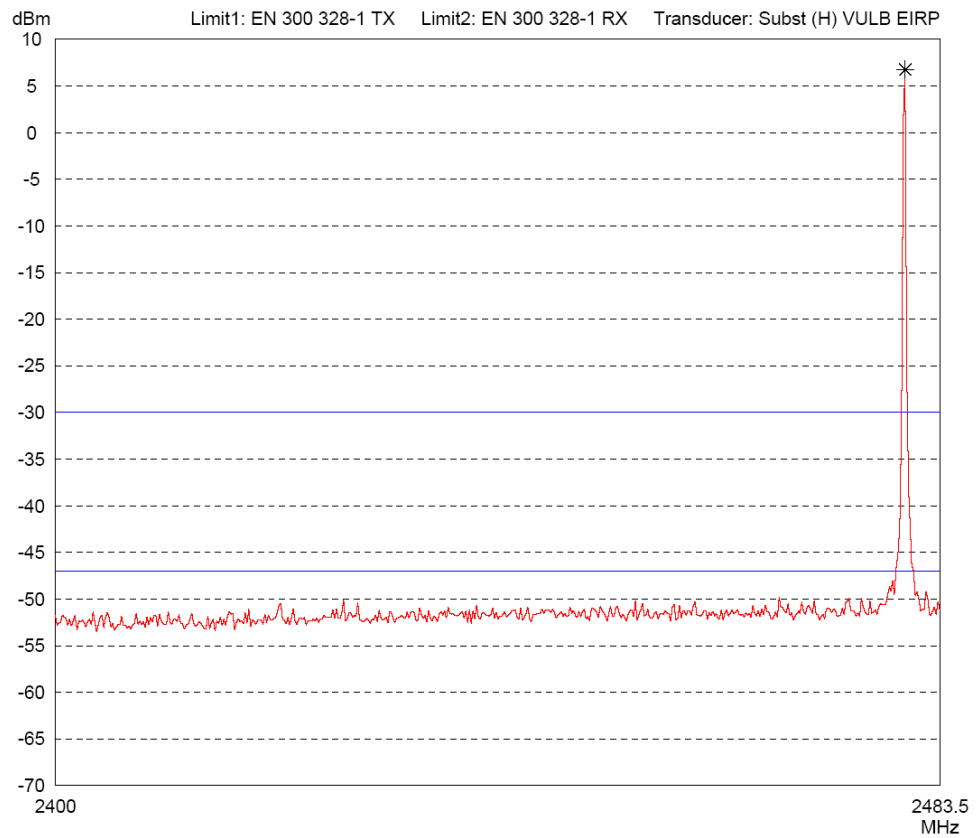
Rules and Specifications:	15.247 (b) (1)
Guide:	ANSI C63.4
Limit:	For frequency hopping systems operating in the 2400 -2483.5 MHz band: 1 watt for systems employing at least 75 hopping channels

Test Site:	Fully Anechoic Chamber
Distance:	Radiated Measurement at 3 m distance Measurement
Date of Test:	07 July 2008

Radiated Measurement

Frequency	Output Power in dBm ERP	Output Power in W	Standard	Result
Low (2402 MHz)	3.86	0.00243	≤1.0W	Pass
Middle 2441 MHz	4.86	0.00306	≤1.0W	Pass
High 2480 MHz	6.74	0.00472	≤1.0W	Pass

Radiated Emission at fundamental frequency at high RF channel



Radiated Emission Measurement 9 kHz to 30 MHz

Rules and specifications:	CFR 47 Part 15, sections 15.205 and 15.209 IC RSS-210 Issue 7, sections 2.2 and 2.6			
Guide:	ANSI C63.4			
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.			
Measurement procedure:	5.2. Radiated Emission Measurement 9 kHz to 30 MHz (0)			

Comment:	
Date of test:	July 10, 2008
Test site:	Open field test site

All emissions show more than 20 dB margin to the limit, no values recorded.

Test Result:	Test passed
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Spurious Emissions – Radiated Measurement

Rules and Specifications:	15.247 (d)
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)
Tested Frequency:	TX mode, lowest frequency channel
Distance:	Radiated Measurement
Date of Test:	10 July 2008
Result:	Test passed

Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dBµV)	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dBµV/m)	Limit (dBµV/m)	Margin (dB)
540,050	horizontal	Quasi-Peak	15,3	21,0		36,3	46,0	9,7
660,060	horizontal	Quasi-Peak	14,2	23,4		37,6	46,0	8,4
780,065	horizontal	Quasi-Peak	15,1	24,3		39,4	46,0	6,6
900,076	horizontal	Quasi-Peak	12,3	26,5		38,8	46,0	7,2
1258,000	horizontal	Peak	15,8	28,8		44,5	54,0	9,5
1798,000	horizontal	Peak	13,5	31,3		44,7	54,0	9,3
4805,000	horizontal	Peak	9,3	34,3		43,5	54,0	10,5

Frequencies < 1 GHz were measured with a quasi-peak detector
 Frequencies > 1 GHz were measured with a peak detector

Sample calculation of field strength values:

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

Spurious Emissions – Radiated Measurement

Rules and Specifications:	15.247 (d)
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)
Tested Frequency:	TX mode, middle frequency channel
Distance:	Radiated Measurement
Date of Test:	10 July 2008
Result:	Test passed

Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dBµV)	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dBµV/m)	Limit (dBµV/m)	Margin (dB)
456,800	horizontal	Quasi-Peak	22,7	17,9		40,6	46,0	5,4
600,360	horizontal	Quasi-Peak	20,5	21,0		41,5	46,0	4,6
660,500	horizontal	Quasi-Peak	21,4	21,3		42,7	46,0	3,3
1884,000	vertical	Peak	22,2	31,7		53,9	54,0	0,1
4800,000	horizontal	Peak	10,1	40,9		51,0	54,0	3,0

Frequencies < 1 GHz were measured with a quasi-peak detector
 Frequencies > 1 GHz were measured with a peak detector

Sample calculation of field strength values:

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

Spurious Emissions – Radiated Measurement

Rules and Specifications:	15.247 (d)
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)
Tested Frequency:	TX mode, highest frequency channel
Distance:	Radiated Measurement
Date of Test:	10 July 2008
Result:	Test passed

Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dBµV)	Correction Factor (dB/m)	Pulse Train Correction (dB)	Final Value (dBµV/m)	Limit (dBµV/m)	Margin (dB)
540,050	horizontal	Quasi-Peak	15,3	21,0		36,3	46,0	9,7
660,060	horizontal	Quasi-Peak	14,2	23,4		37,6	46,0	8,4
780,065	horizontal	Quasi-Peak	15,1	24,3		39,4	46,0	6,6
900,076	horizontal	Quasi-Peak	12,3	26,5		38,8	46,0	7,2
4960,800	horizontal	Peak	10,1	34,4		44,5	54,0	9,5

Frequencies < 1 GHz were measured with a quasi-peak detector
 Frequencies > 1 GHz were measured with a peak detector

Sample calculation of field strength values:

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

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)
1500-15000	---	---	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: **6.74 dBm = 4.72 mW**
Prediction distance: **20 cm**
Antenna gain: **0 dB = 1.0**

Power density at 20 cm: **0.00143 mW/cm²**

Test Result:	Pass
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Antenna connector requirement

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



Integrated antenna

8. Test Results for Receiver

FCC CFR 47 Part 15			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
15.107	Conducted AC powerline emission 150 kHz to 30 MHz		Test passed
15.109	Radiated emission 30 MHz to 12.5 GHz		Test passed
15.111(a)	Antenna power conduction emission of receivers 9 kHz to 12.5 GHz	---	Not applicable

IC RSS-Gen Issue 2			
<i>Section(s)</i>	<i>Test</i>	<i>Page</i>	<i>Result</i>
7.2.2	Transmitter AC power lines conducted emissions 150 kHz to 30 MHz		Test passed
6(a), 7.2.3.2	Receiver spurious emissions (radiated) 30 MHz to 12.5 GHz		Test passed
6(b), 7.2.3.1	Receiver spurious emissions (antenna conducted) 9 kHz to 12.5 GHz	---	Not applicable

Radiated Emission Measurement 30 MHz to 12.5 GHz

Rules and specifications:	CFR 47 Part 15, section 15.109 (Class B) IC RSS-Gen Issue 2, sections 6(a) and 7.2.3.2		
Guide:	ANSI C63.4 / CISPR 22		
Limit:	Frequency of Emission (MHz)	Field Strength (µV/m)	Field Strength (dBµV/m)
	30 - 88	100	40.0
	88 - 216	150	43.5
	216 - 960	200	46.0
	Above 960	500	54.0

Comment:			
Date of test:	07 July 2008		
Test site:	Frequencies ≤ 1 GHz: Open field test site Frequencies > 1 GHz: Fully anechoic room, cabin no. 2		
Test distance:	3 meters		

Test Result:	Test passed		
--------------	-------------	--	--

Frequency (MHz)	Antenna Polarization	Detector	Receiver Reading (dBµV)	Correction Factor (dB/m)	Final Value (dBµV/m)	Limit (dBµV/m)	Margin (dB)
509,180	horizontal	Quasi-Peak	16,9	19,2	36,0	46,0	10,0
540,220	horizontal	Quasi-Peak	18,3	19,8	38,1	46,0	7,9
571,260	horizontal	Quasi-Peak	17,6	20,4	38,0	46,0	8,0
625,580	horizontal	Quasi-Peak	16,4	21,1	37,6	46,0	8,5
660,500	horizontal	Quasi-Peak	19,4	21,3	40,7	46,0	5,3
780,780	horizontal	Quasi-Peak	13,4	22,7	36,1	46,0	9,9
901,060	horizontal	Quasi-Peak	14,0	24,2	38,2	46,0	7,8

Sample calculation of field final values:

$$\text{Final Value (dBµV/m)} = \text{Reading Value (dBµV)} + \text{Correction Factor (dB/m)}$$

9. Referenced Regulations

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

<input checked="" type="checkbox"/>	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, 2007
<input checked="" type="checkbox"/>	CFR 47 Part 15	Code of Federal Regulations Part 15 (Radio Frequency Devices) of the Federal Communication Commission (FCC)	September 20, 2007
<input checked="" type="checkbox"/>	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)
<input checked="" type="checkbox"/>	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
<input checked="" type="checkbox"/>	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
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	RSS-102	Radio Standards Specification RSS-102 Issue 2: Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)	November 2005
<input type="checkbox"/>	ICES-003	Interference-Causing Equipment Standard ICES-003 Issue 4 for Digital Apparatus, published by Industry Canada	February 7, 2004
<input checked="" type="checkbox"/>	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
<input type="checkbox"/>	CAN/CSA-CEI/IEC CISPR 22	Limits and Methods of Measurement of Radio Disturbance Characteristics of Information Technology Equipment	2002
<input checked="" type="checkbox"/>	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

10. Charts taken during testing

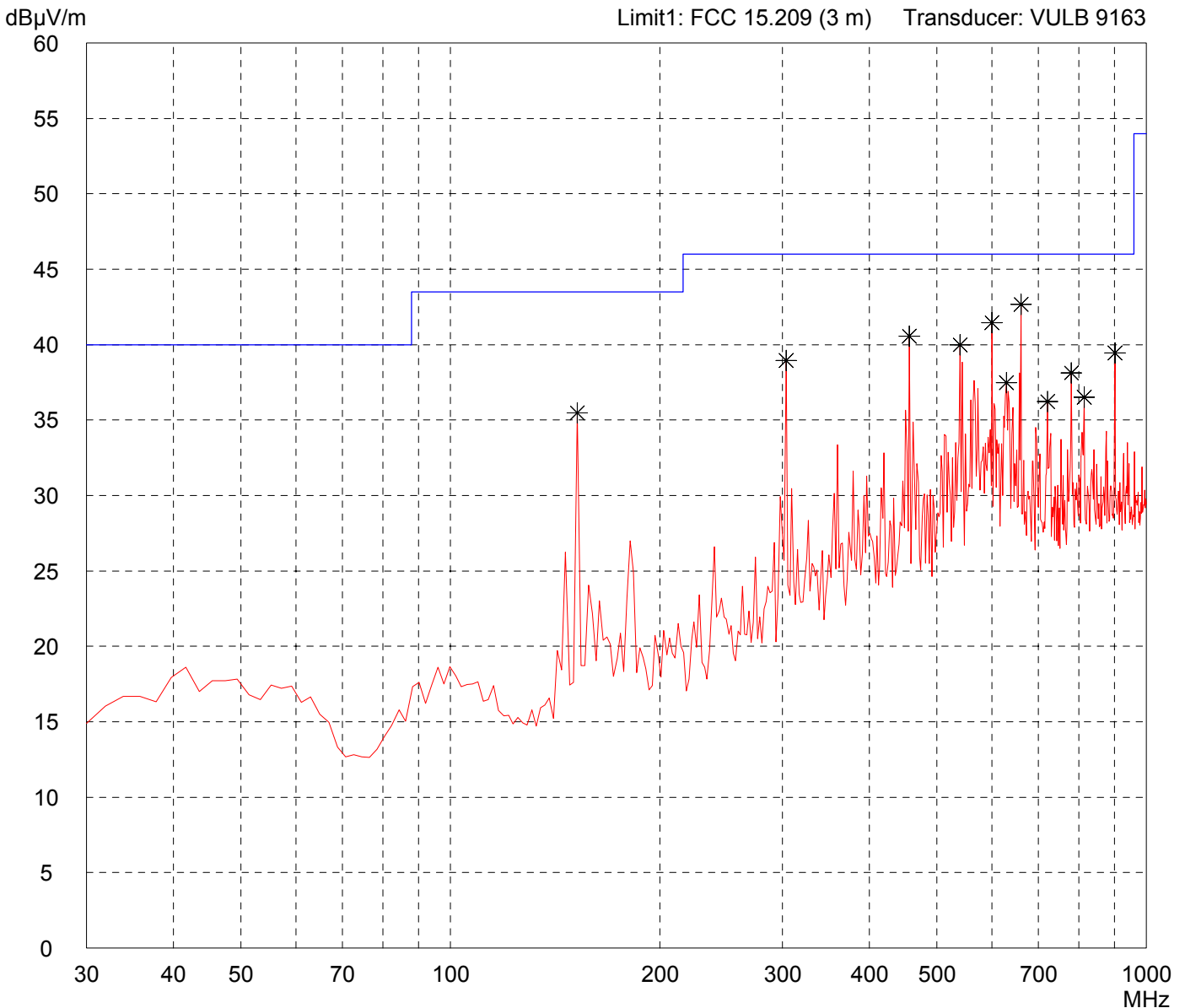
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 0

Detector: Peak

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



Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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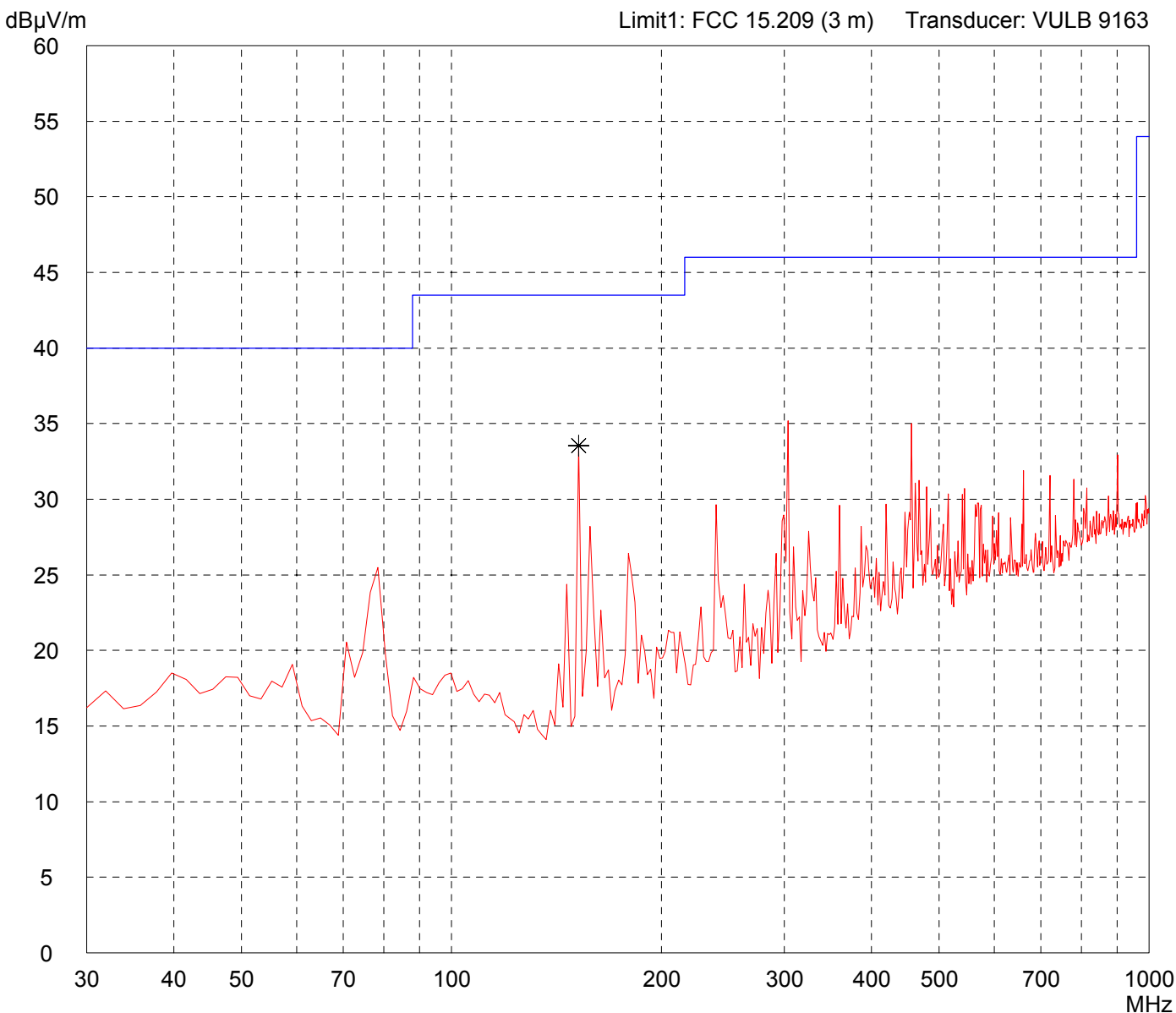
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 0

Detector: Peak

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



Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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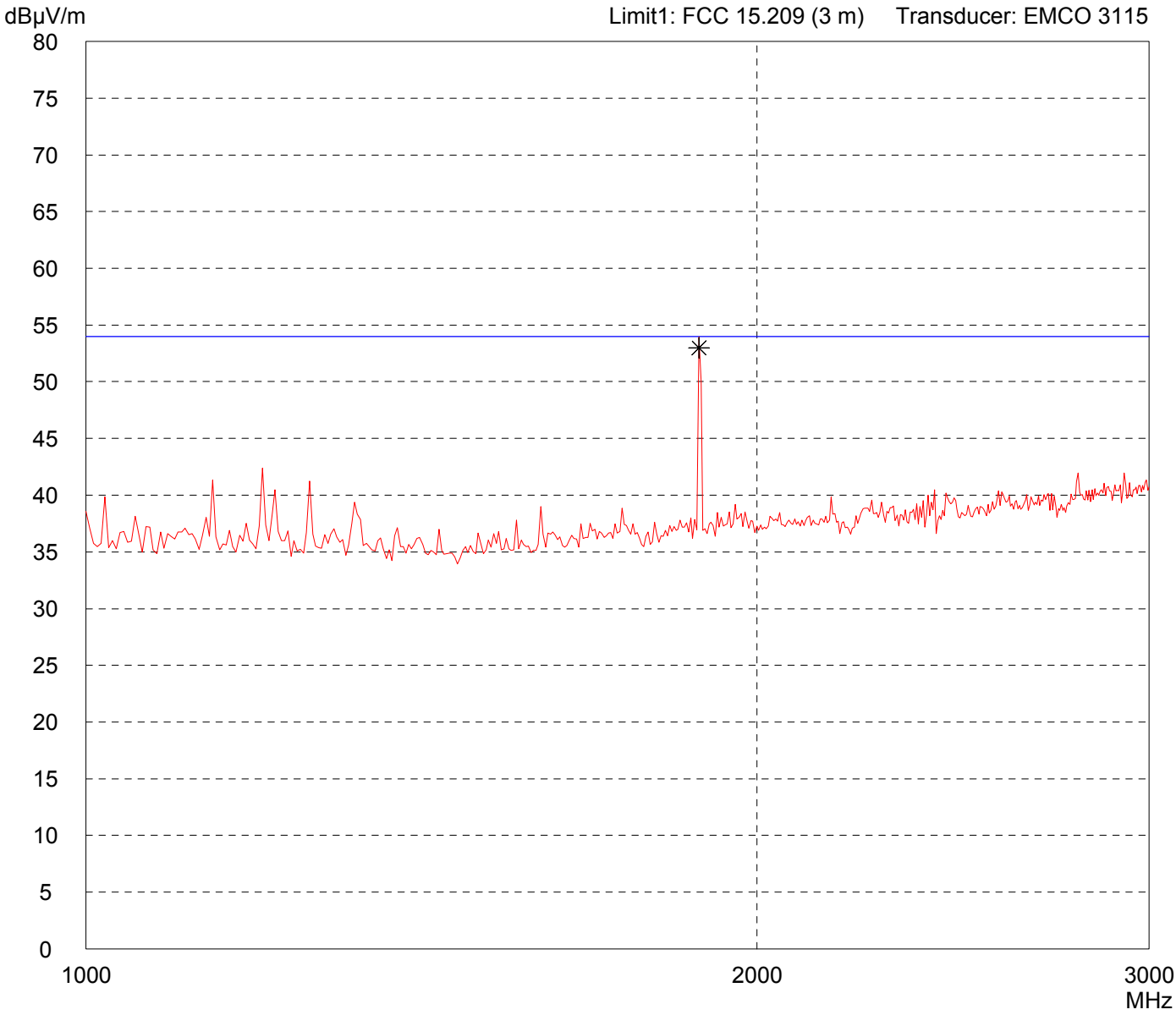
Radiated Emission Test 1 GHz - 3 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Transmitter Test at Channel 0

Detector:
Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
55608-80507-2

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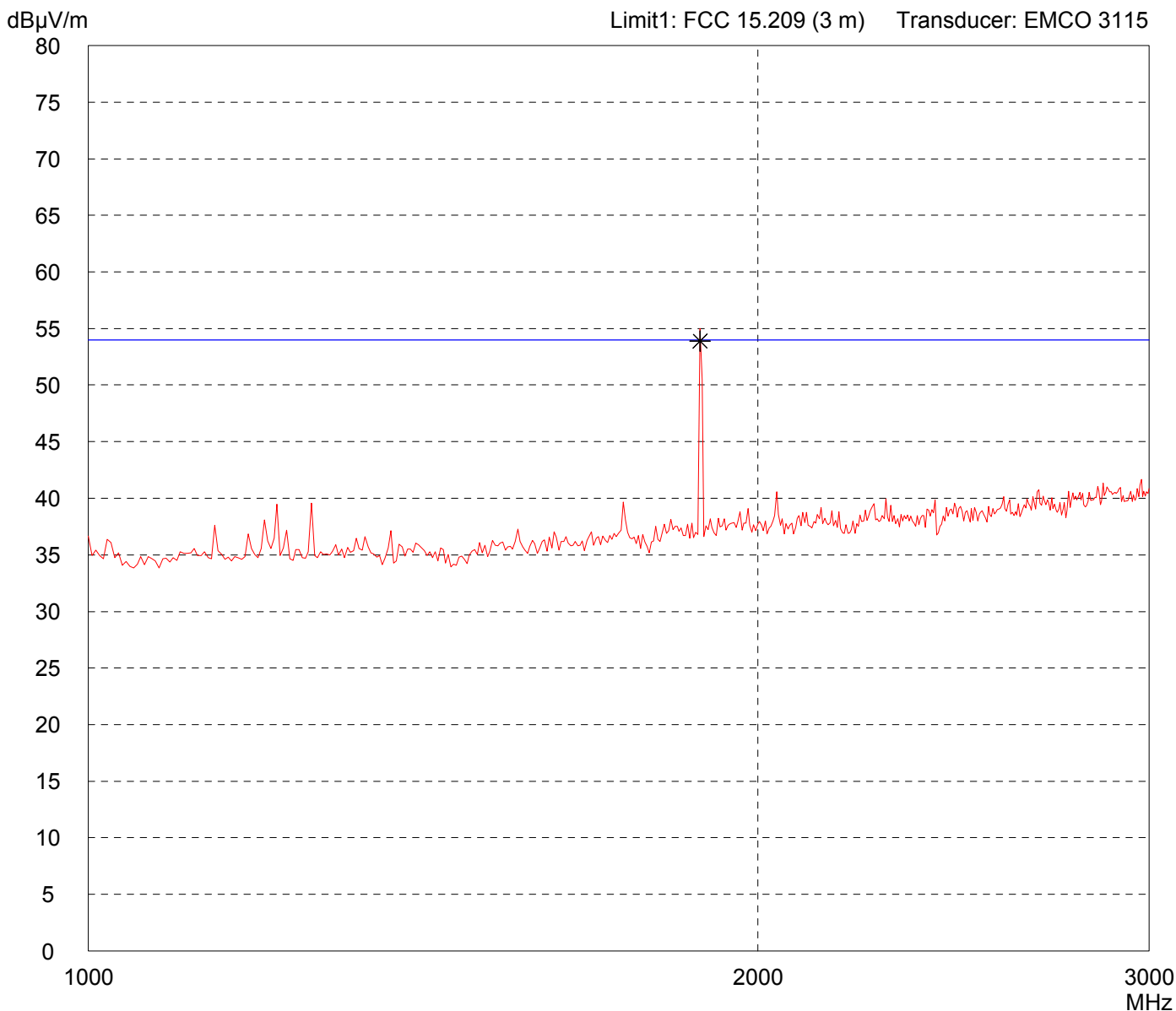
Radiated Emission Test 1 GHz - 3 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 0

Detector: Peak

List of values: Selected by hand



Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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Radiated Emission Test 3 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
IHF 1700 Music

Serial no.:
080507-4 / 059

Applicant:
Motorola Ltd.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Horizontal Polarization

Date of test:
07/10/2008

Operator:
J. Roidt

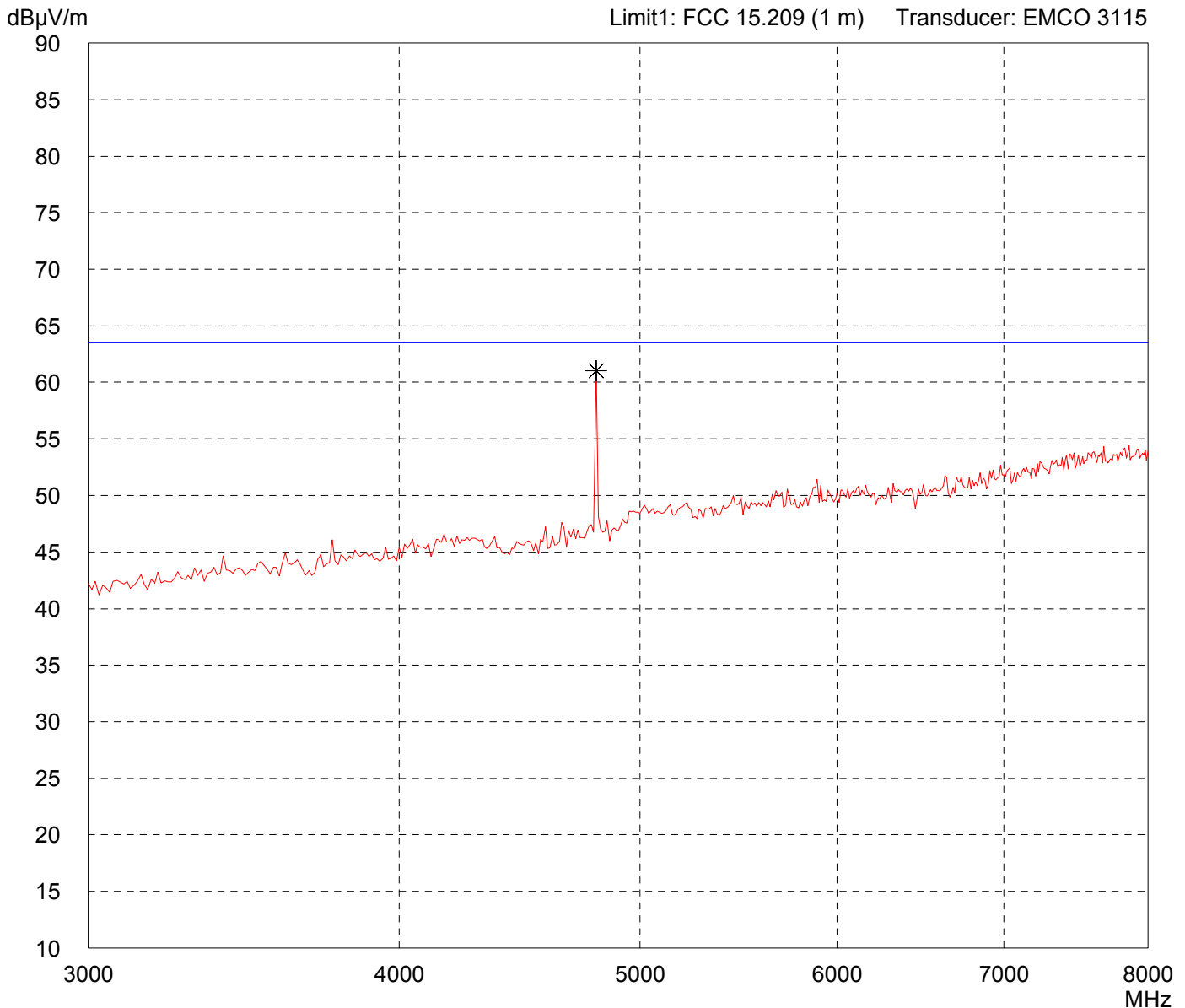
Test performed:
automatically

File name:
default.emi

Comment:
- Transmitter Test at Channel 0

Detector:
Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
55608-80507-2

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Radiated Emission Test 3 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
IHF 1700 Music

Serial no.:
080507-4 / 059

Applicant:
Motorola Ltd.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Vertical Polarization

Date of test:
07/10/2008

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

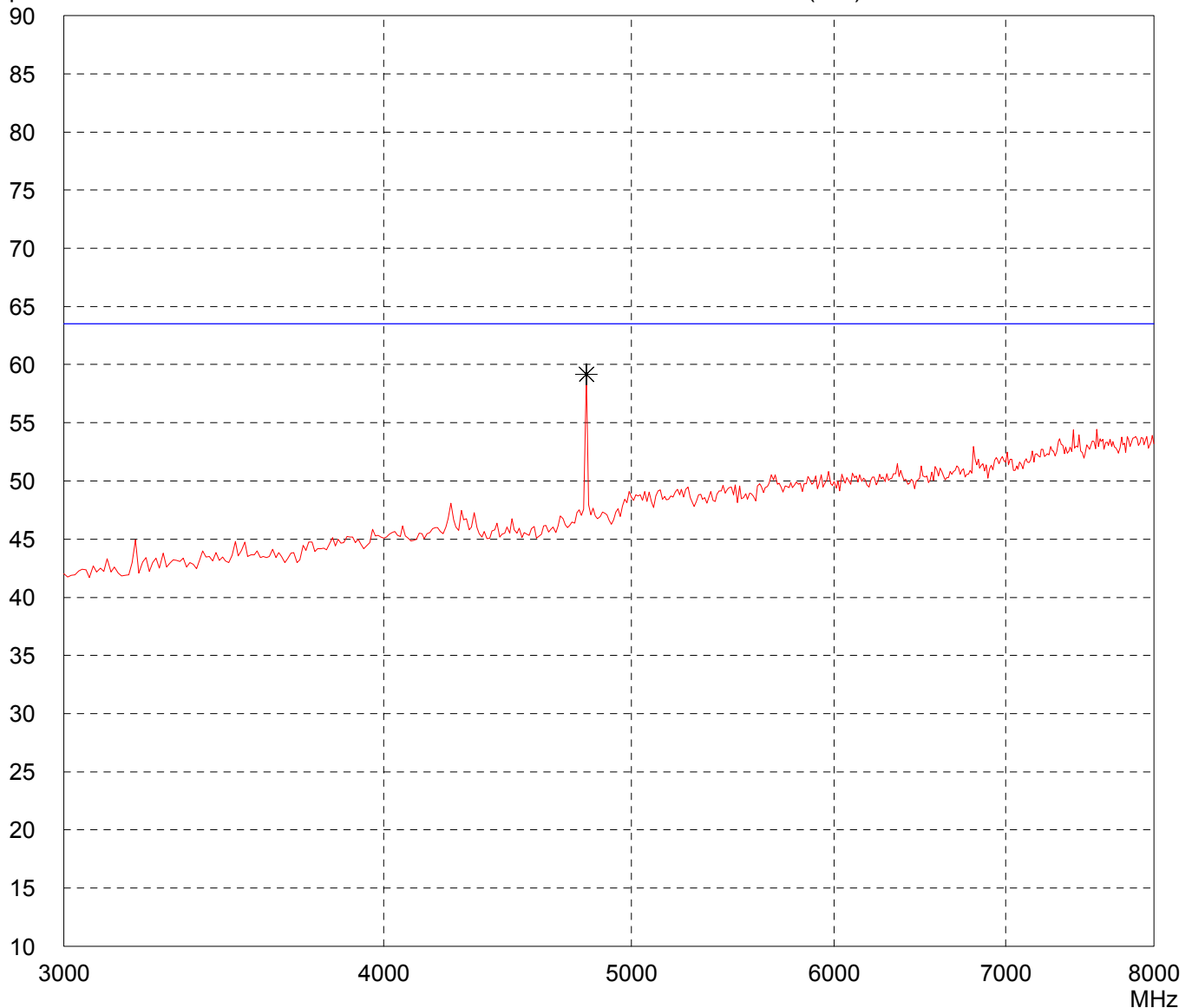
Comment:
- Transmitter Test at Channel 0

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:
55608-80507-2

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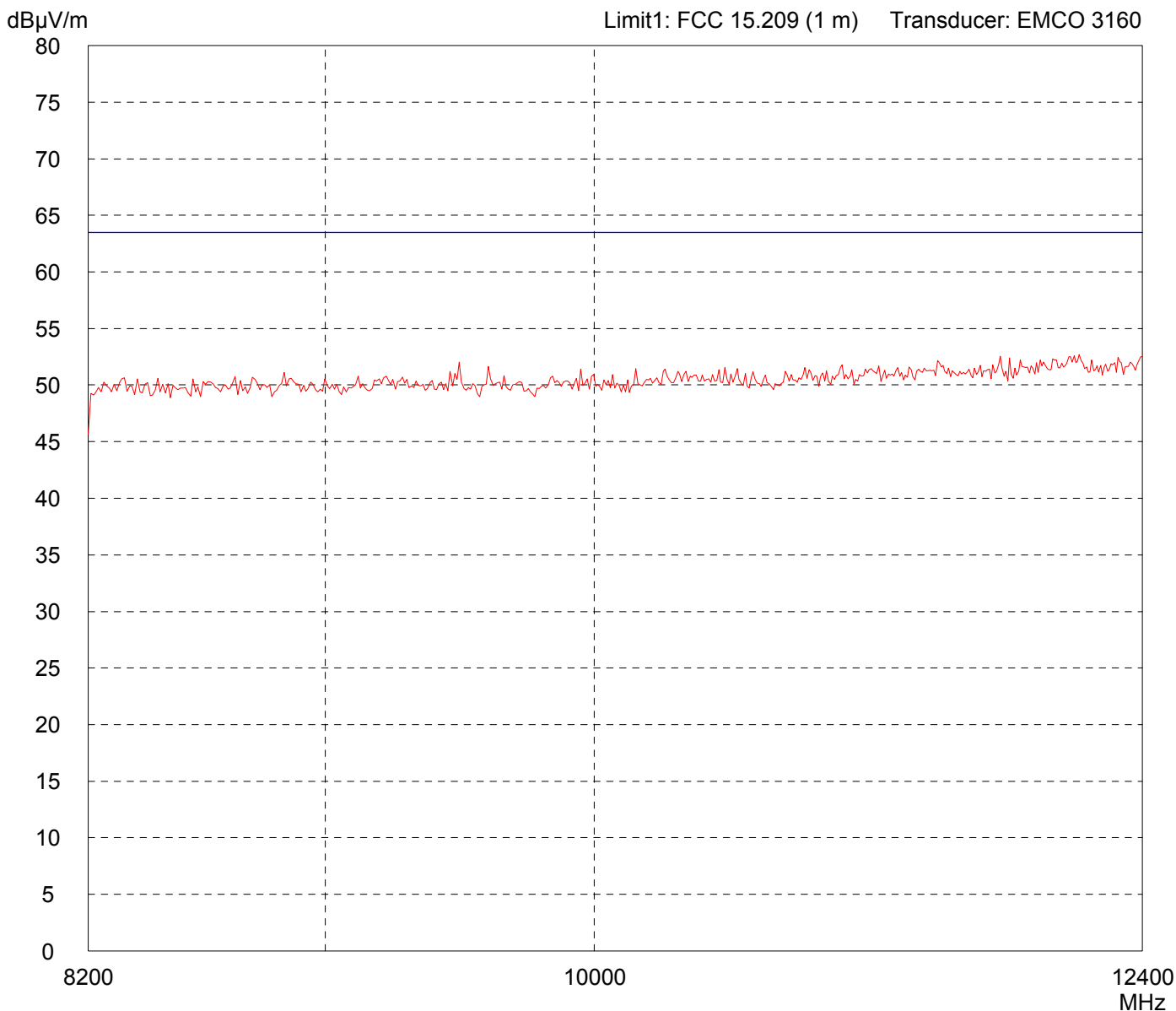
Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Transmitter Test at Channel 00

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Limit kept

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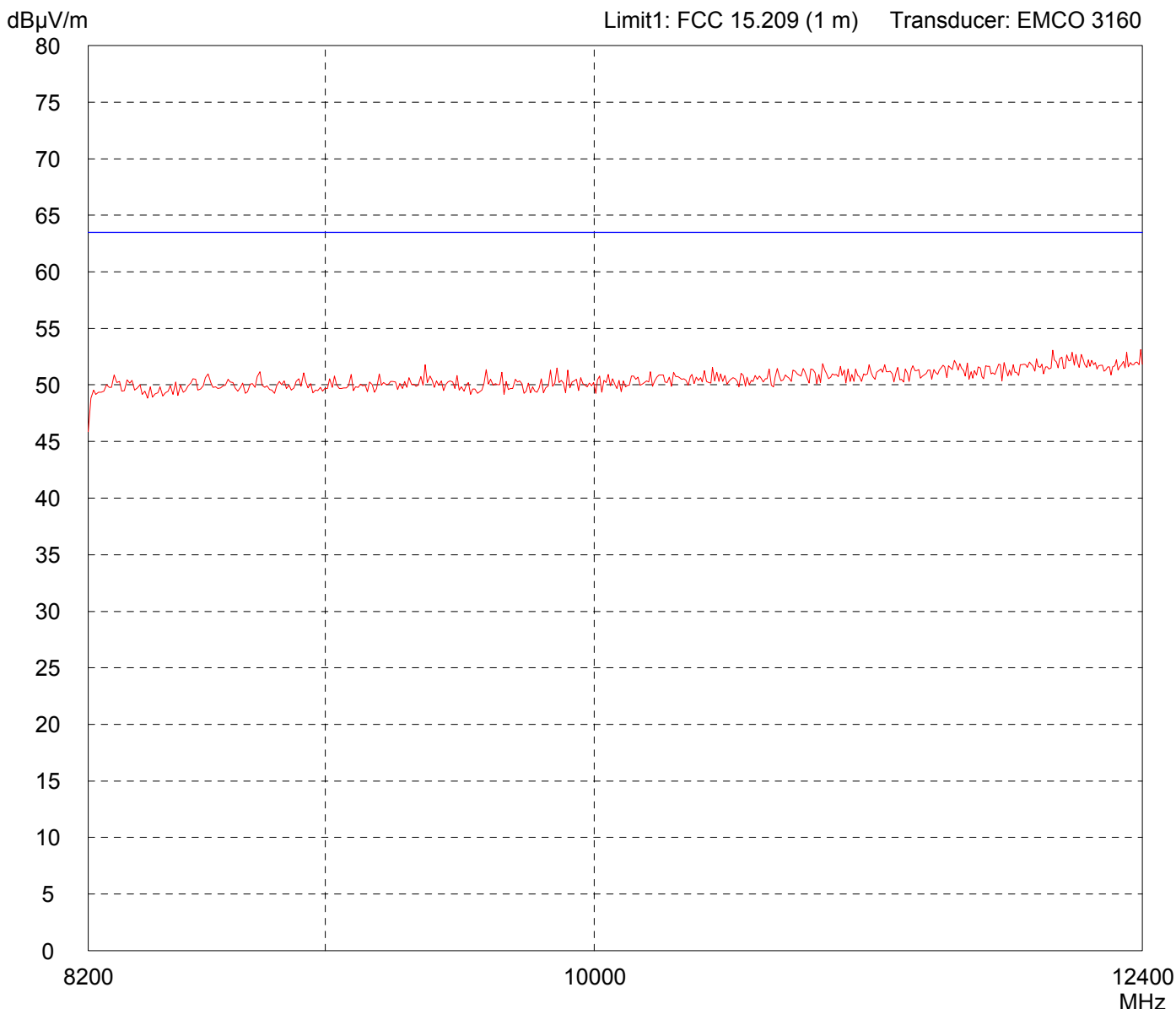
Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Transmitter Test at Channel 00

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Limit kept

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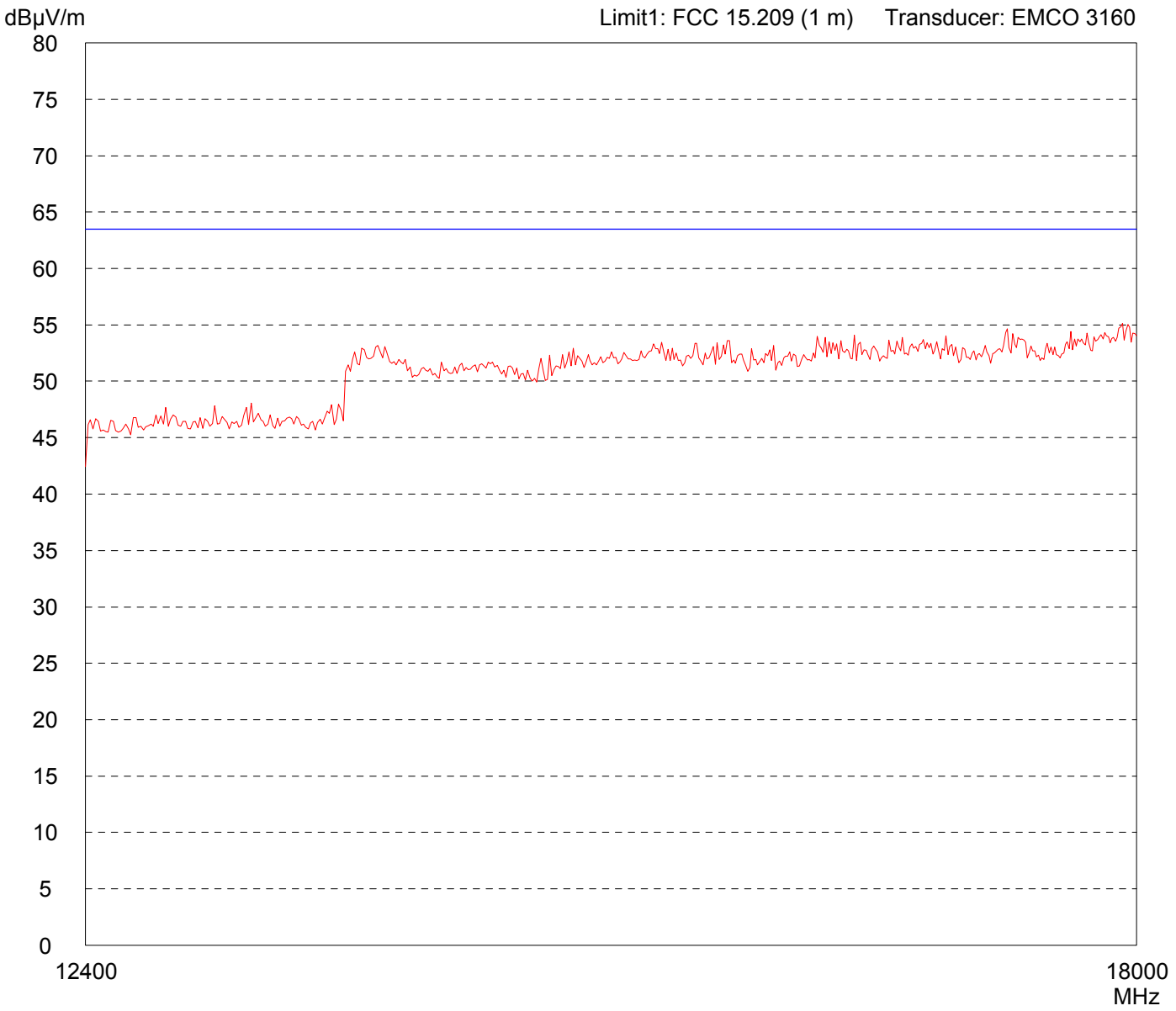
Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Comment:
- Transmitter Test at Channel 00

Detector:
Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
55608-80507-2

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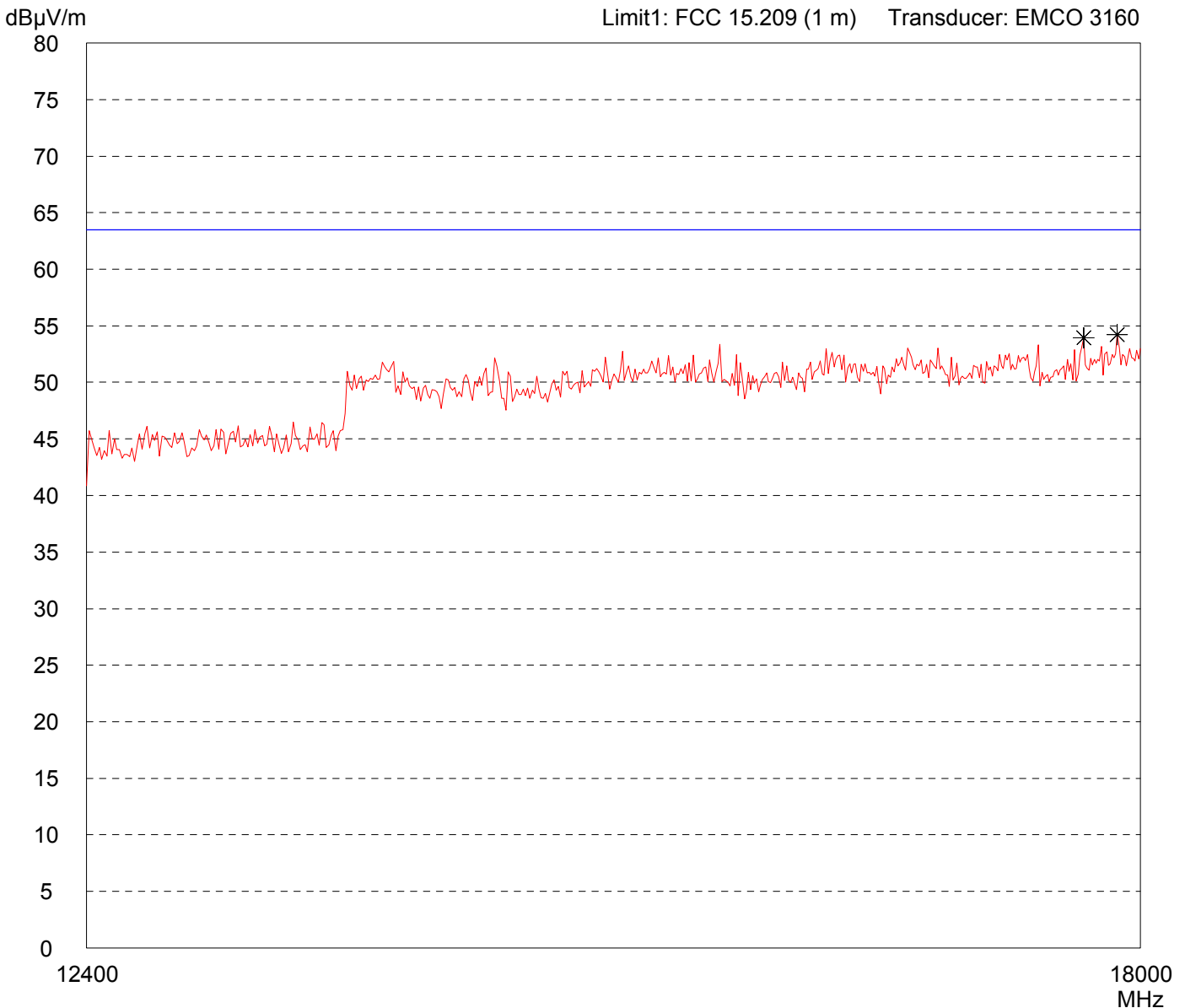
Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Comment: - Transmitter Test at Channel 00
--

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Limit kept

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Spurious emissions according to FCC Rules

Model:
IHF1700 Music

Serial No.:
080507-1

Applicant:
Motorola Ltd.

Mode:
- TX Mode at Low Channel

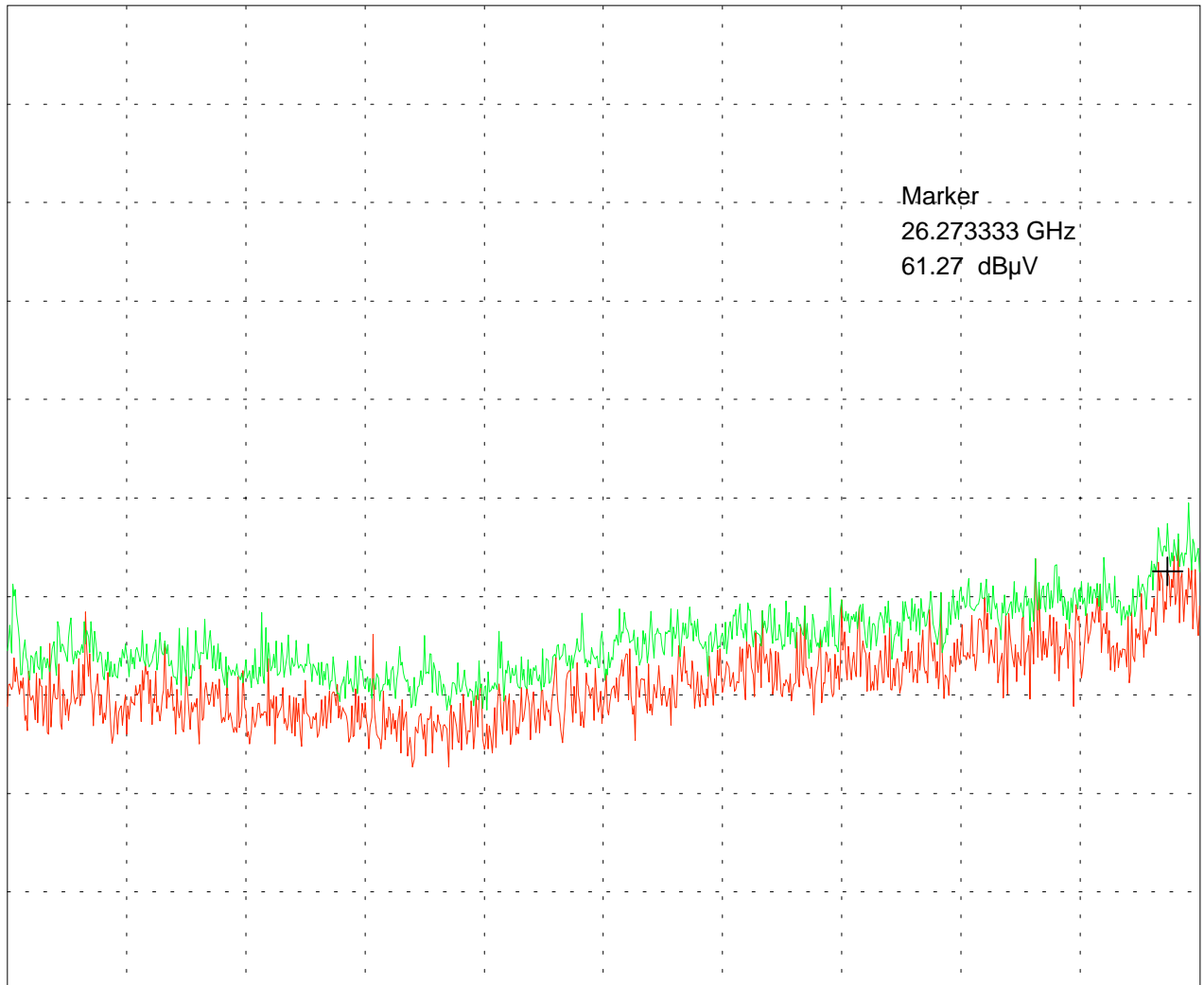
- Test Distance = 0.5 m

- Horizontal & Vertical Polarisation

Ref.Level 90 dB μ V
5 dB/Div.

ATT 0 dB

Ref. Offset 43 dB



Marker
26.273333 GHz
61.27 dB μ V

Start 18.000 GHz
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz
SWP 40 ms

Tested by:
Johann Roidt

Date:
10 July 2008

Project-No.:
55608-080507-2

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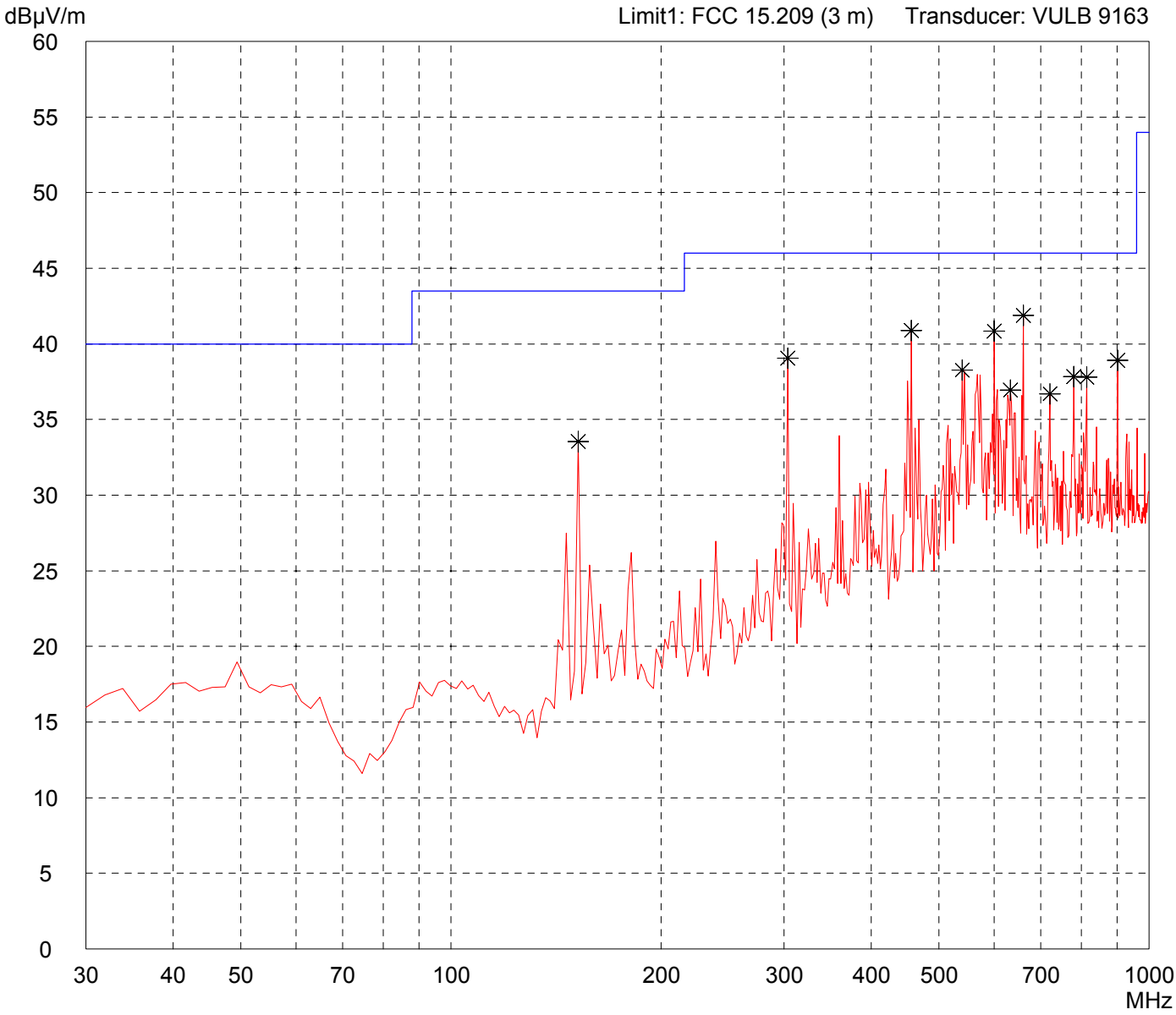
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 39
--

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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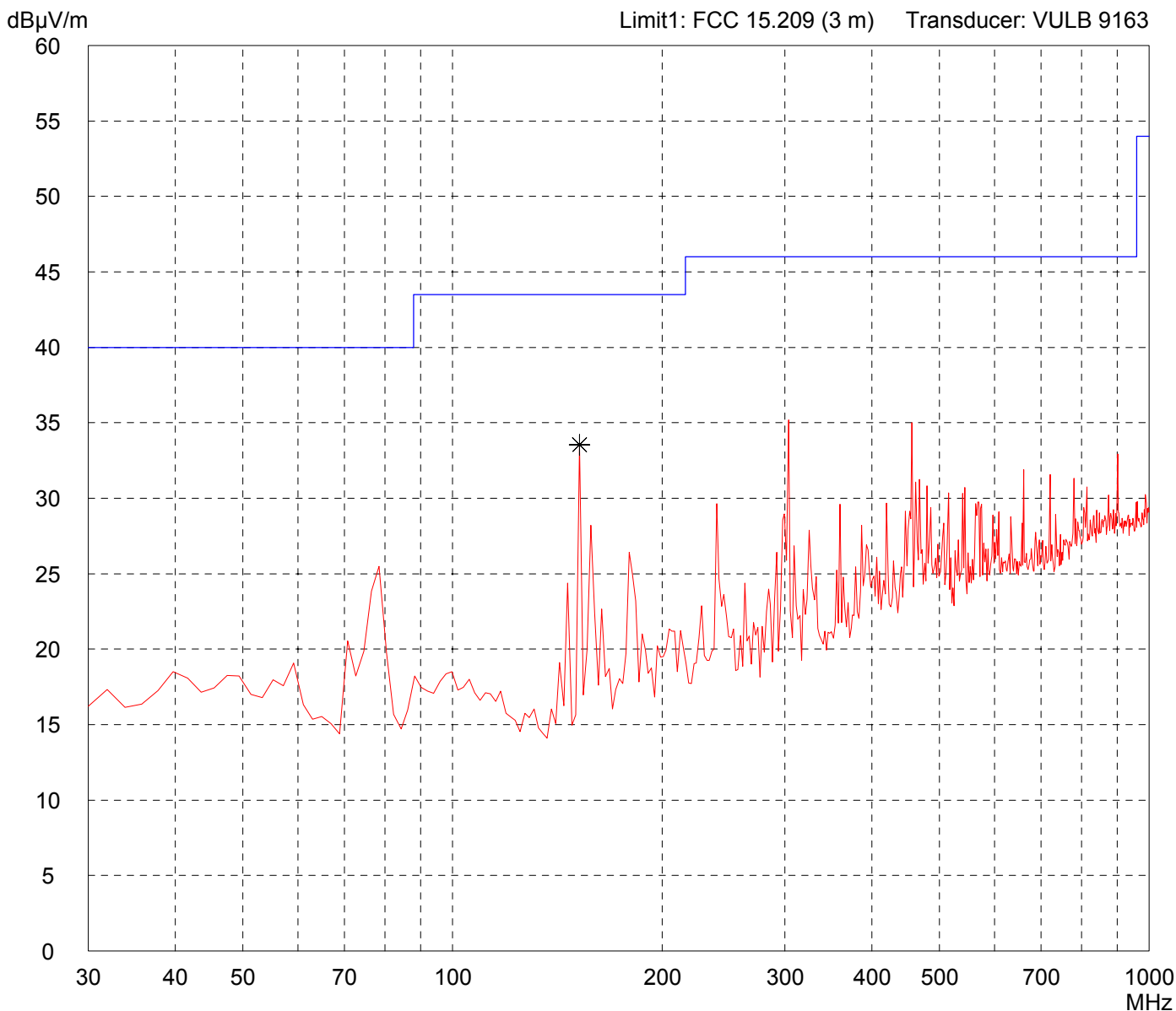
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 0

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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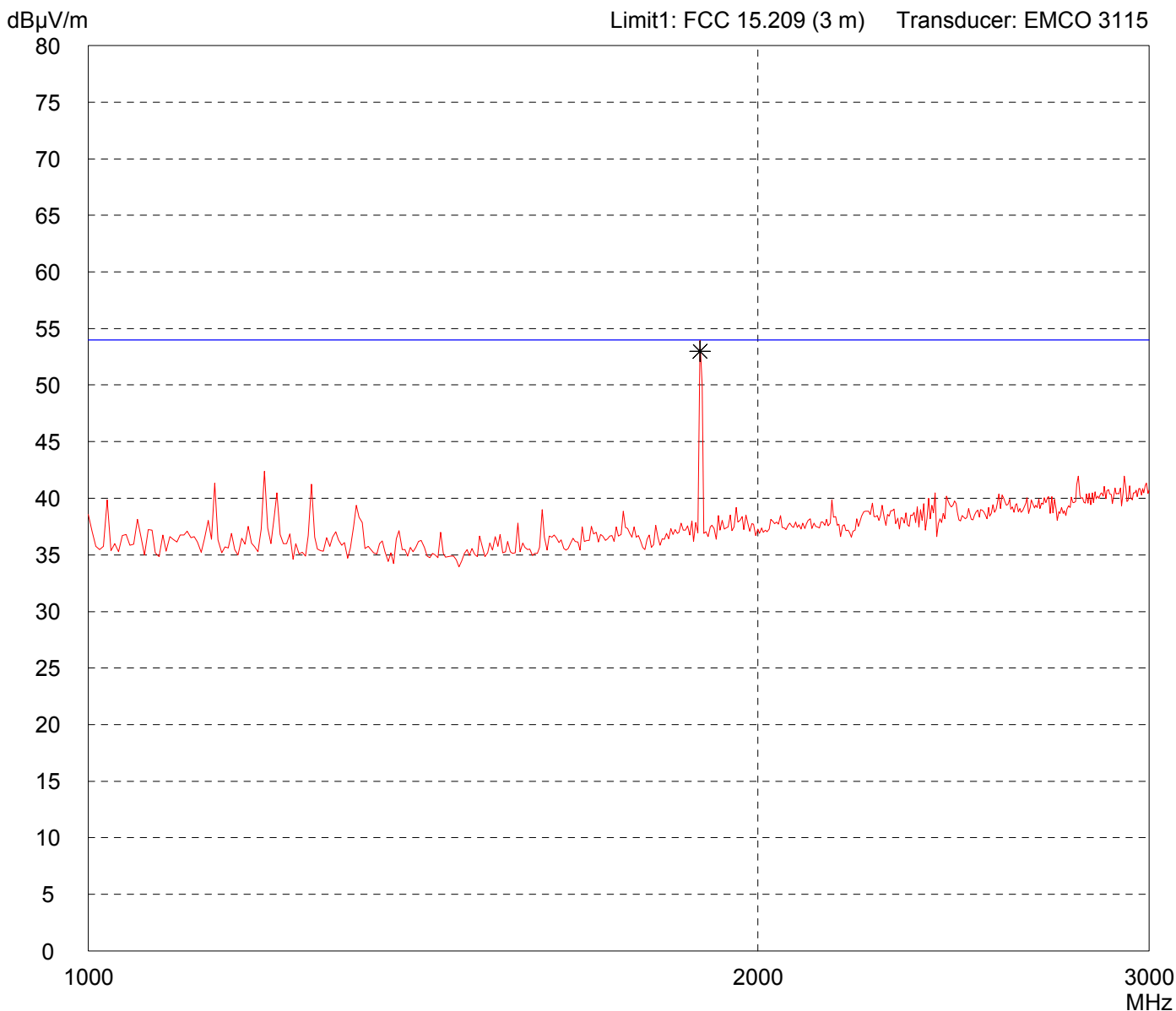
Radiated Emission Test 1 GHz - 3 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Transmitter Test at Channel 0

Detector:
Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
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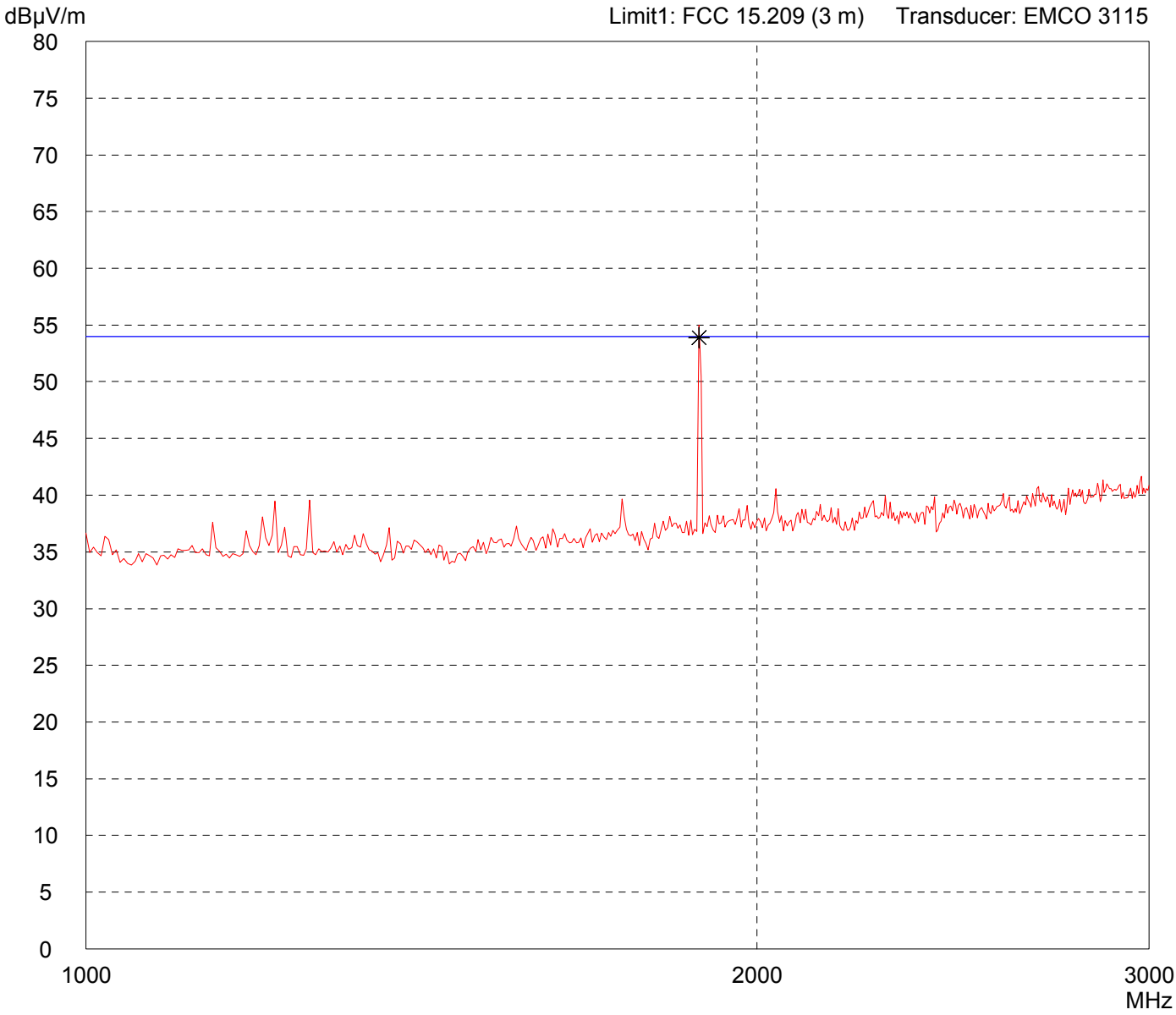
Radiated Emission Test 1 GHz - 3 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 0

Detector: Peak

List of values: Selected by hand



Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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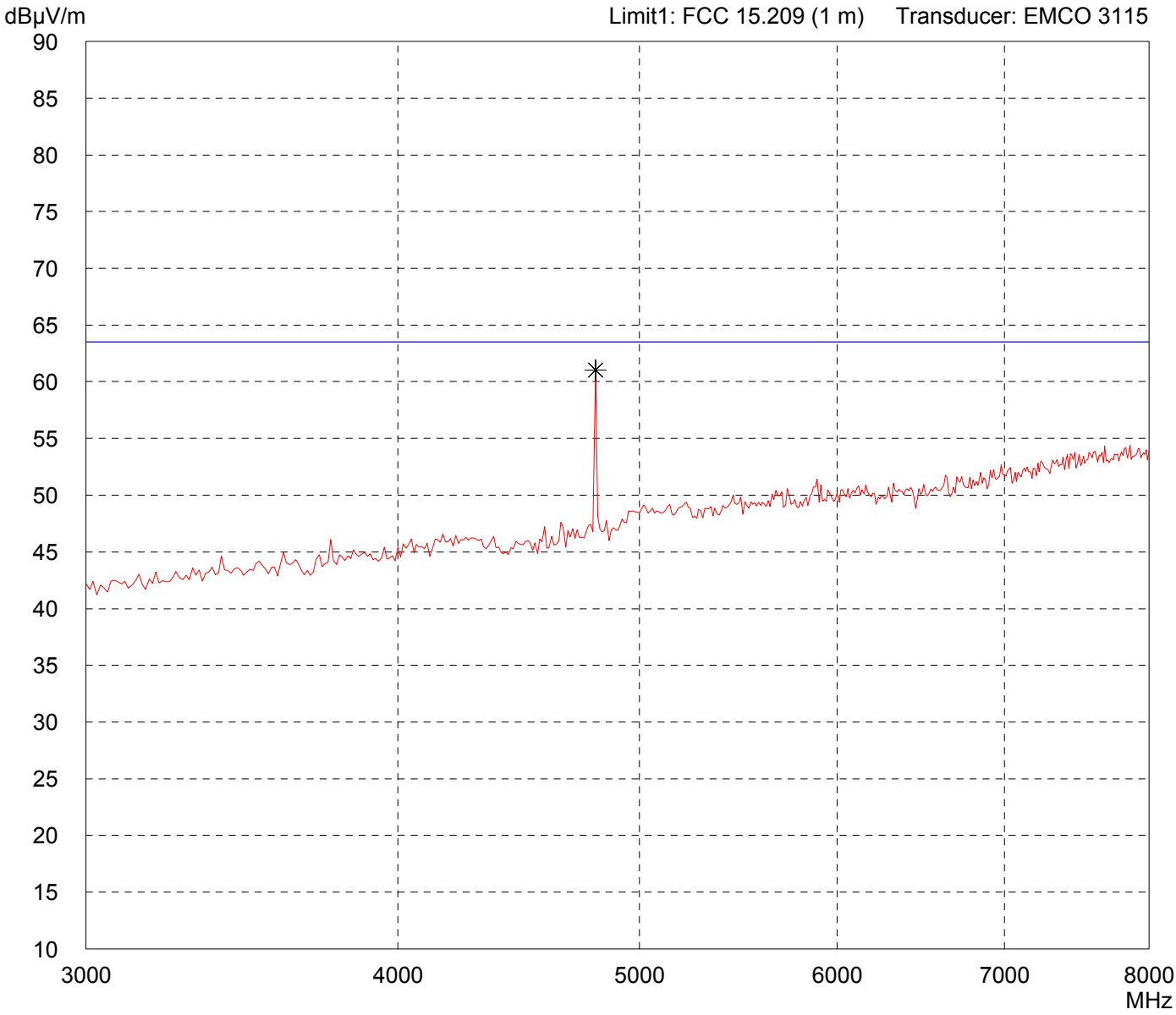
Radiated Emission Test 3 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 0

Detector: Peak

List of values: Selected by hand



Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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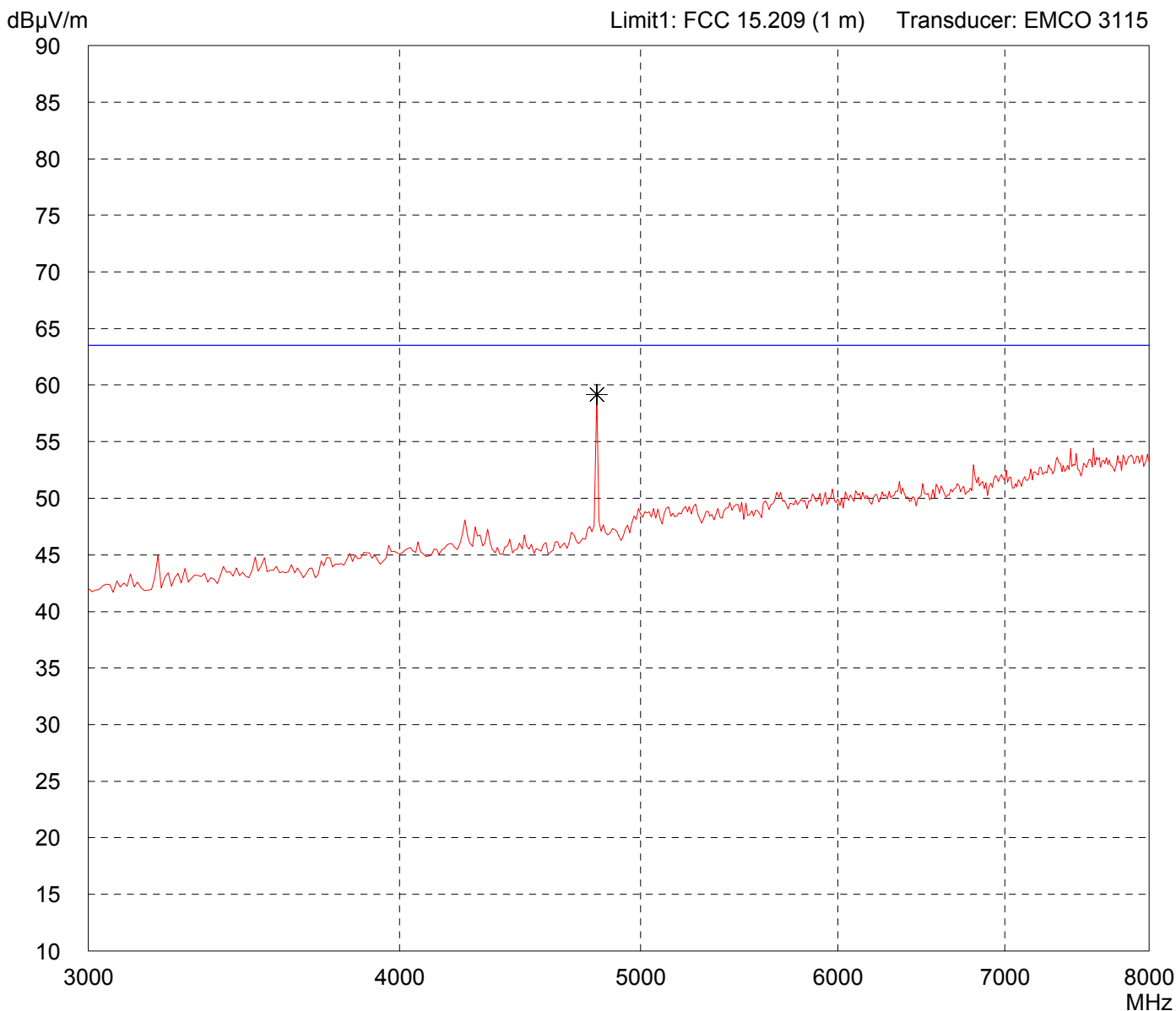
Radiated Emission Test 3 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Transmitter Test at Channel 0

Detector:
Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
55608-80507-2

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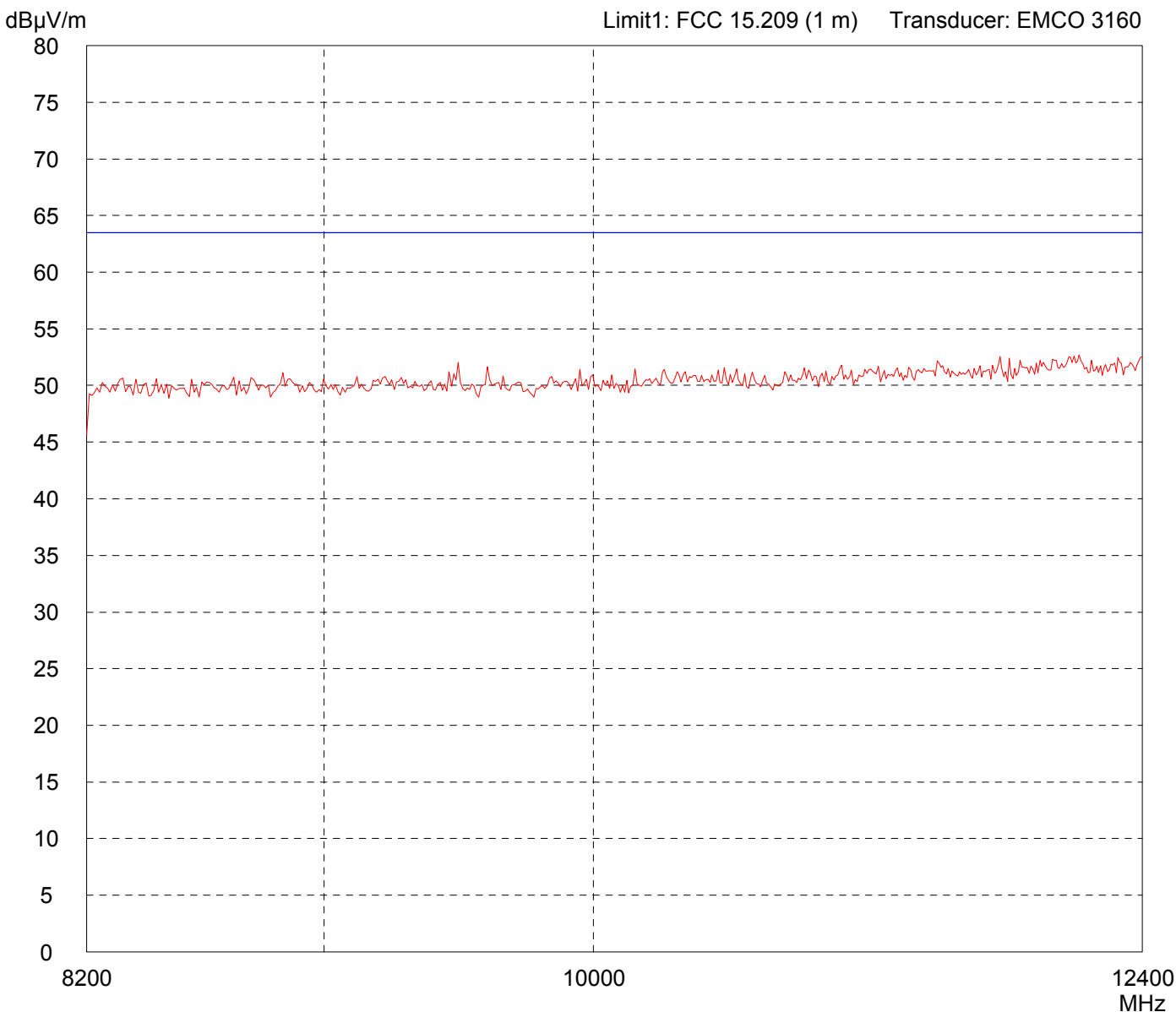
Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Transmitter Test at Channel 00

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



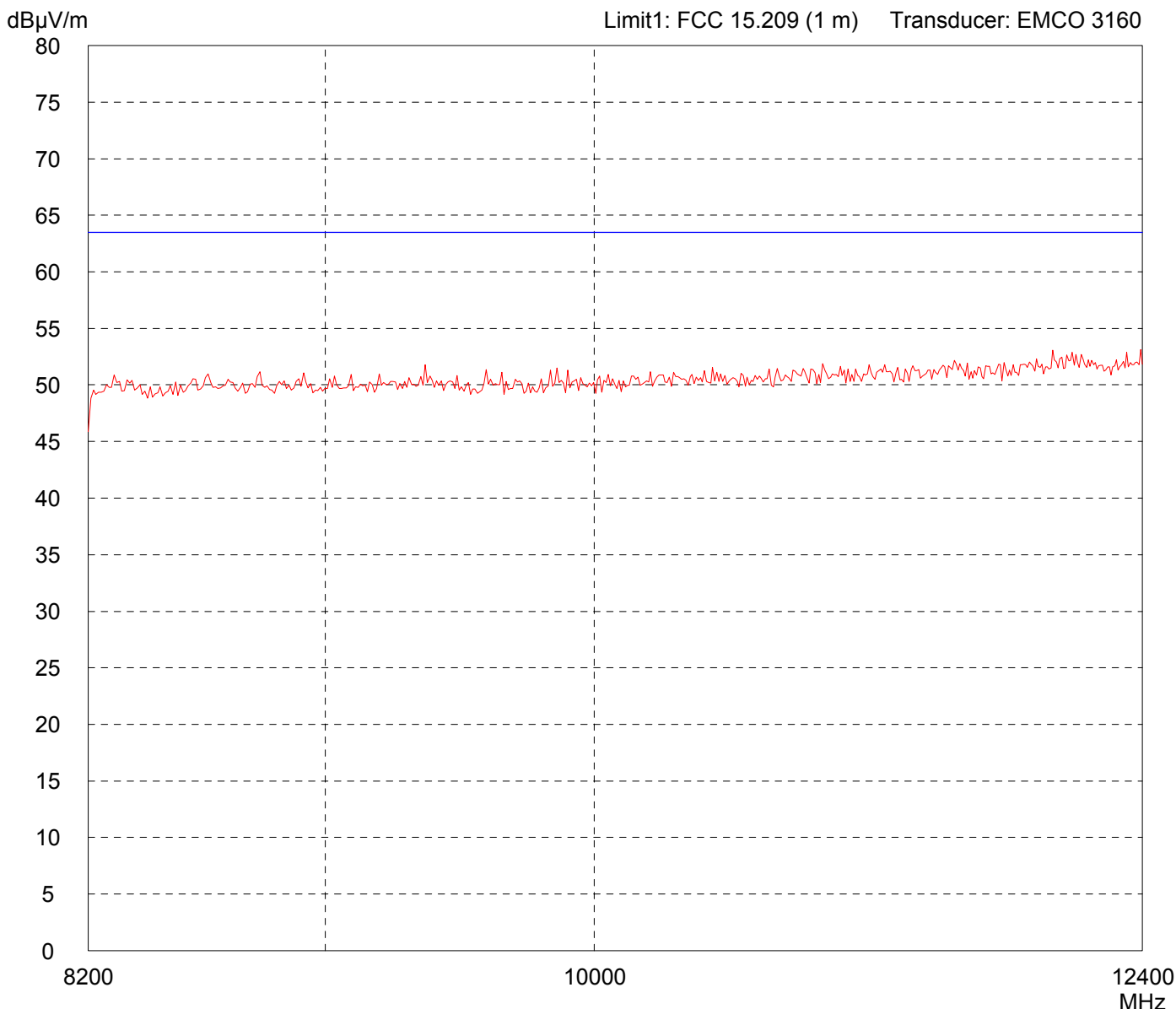
Result:
Limit kept

Project file:
55608-80507-2 Page of Pages

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

<p>Model: IHF 1700 Music</p> <p>Serial no.: 080507-4 / 059</p> <p>Applicant: Motorola Ltd.</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 1 meter Vertical Polarization</p> <p>Date of test: 07/10/2008 Operator: J. Roidt</p> <p>Test performed: automatically File name: default.emi</p>	<p>Comment: - Transmitter Test at Channel 00</p>
---	---

<p>Detector: Peak</p>	<p>List of values: 10 dB Margin 50 Subranges</p>
----------------------------------	--

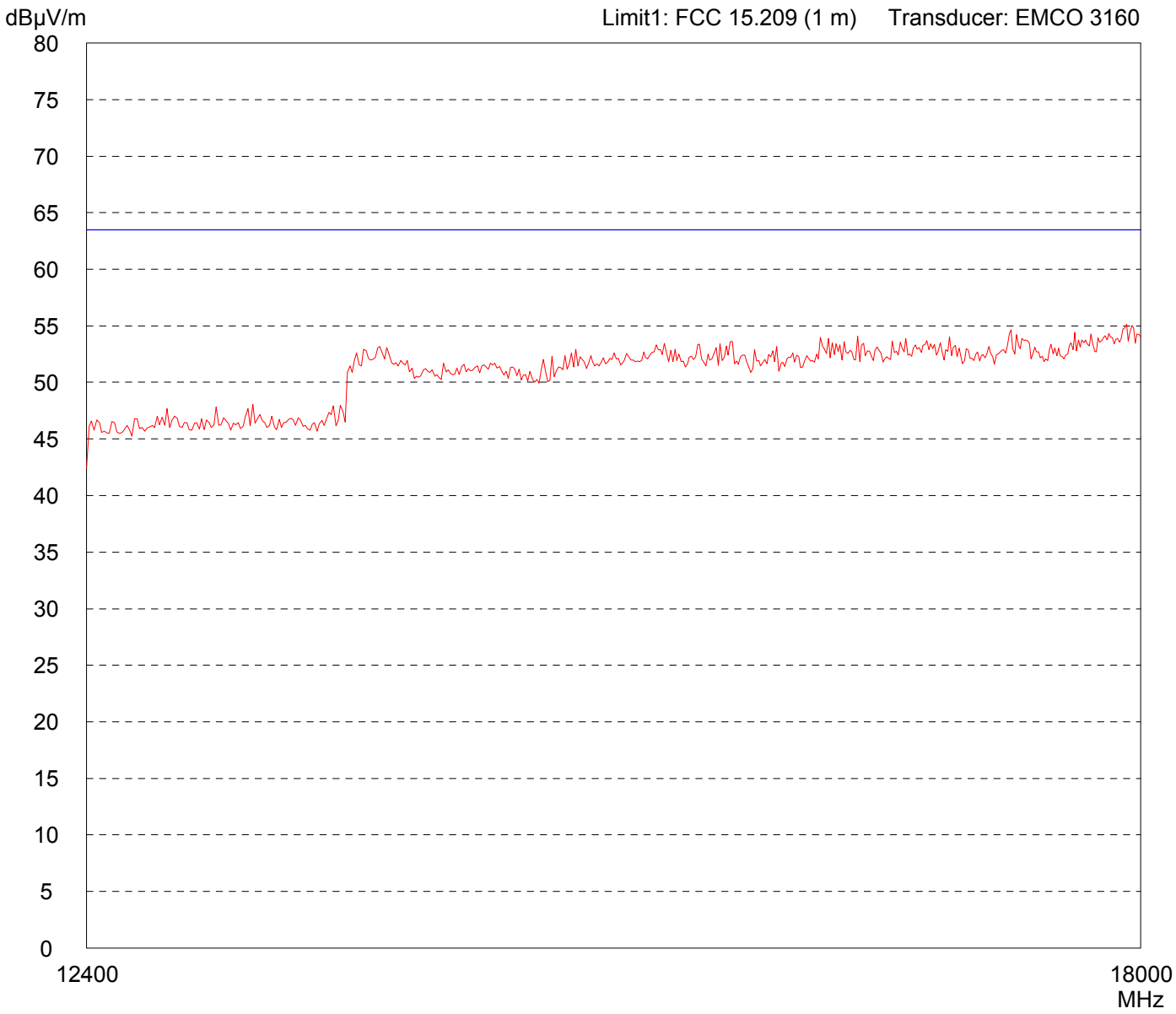


<p>Result: Limit kept</p>	<p>Project file: 55608-80507-2</p> <p style="text-align: right;">Page of Pages</p>
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Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

<p>Model: IHF 1700 Music</p> <p>Serial no.: 080507-4 / 059</p> <p>Applicant: Motorola Ltd.</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 1 meter Horizontal Polarization</p> <p>Date of test: 07/10/2008 Operator: J. Roidt</p> <p>Test performed: by hand File name: default.emi</p>	<p>Comment: - Transmitter Test at Channel 00</p>
--	--

<p>Detector: Peak</p>	<p>List of values: Selected by hand</p>
---------------------------	---



<p>Result: Limit kept</p>	<p>Project file: 55608-80507-2</p> <p style="text-align: right;">Page of Pages</p>
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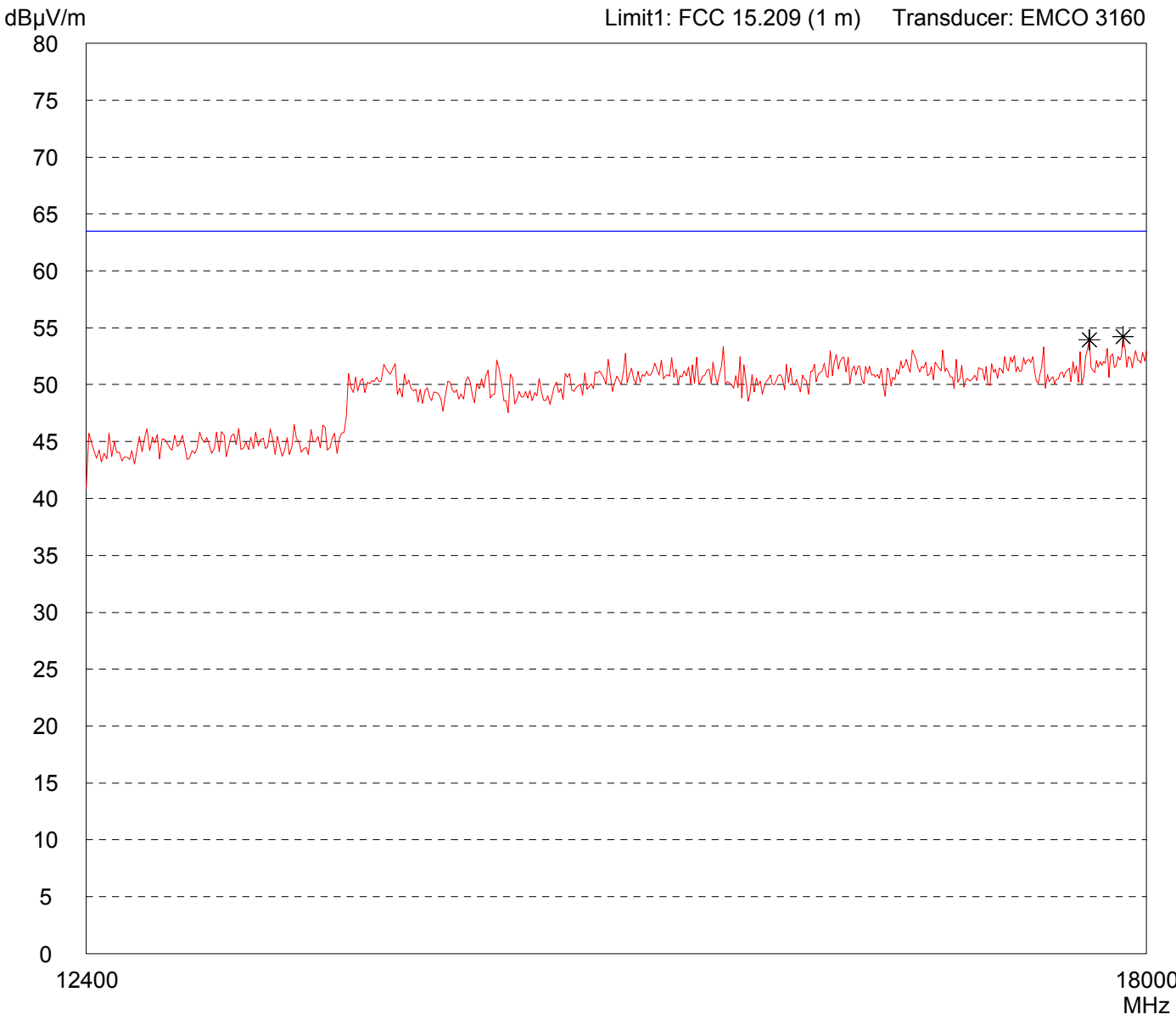
Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Comment:
- Transmitter Test at Channel 00

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Limit kept

Project file:
55608-80507-2 Page of Pages

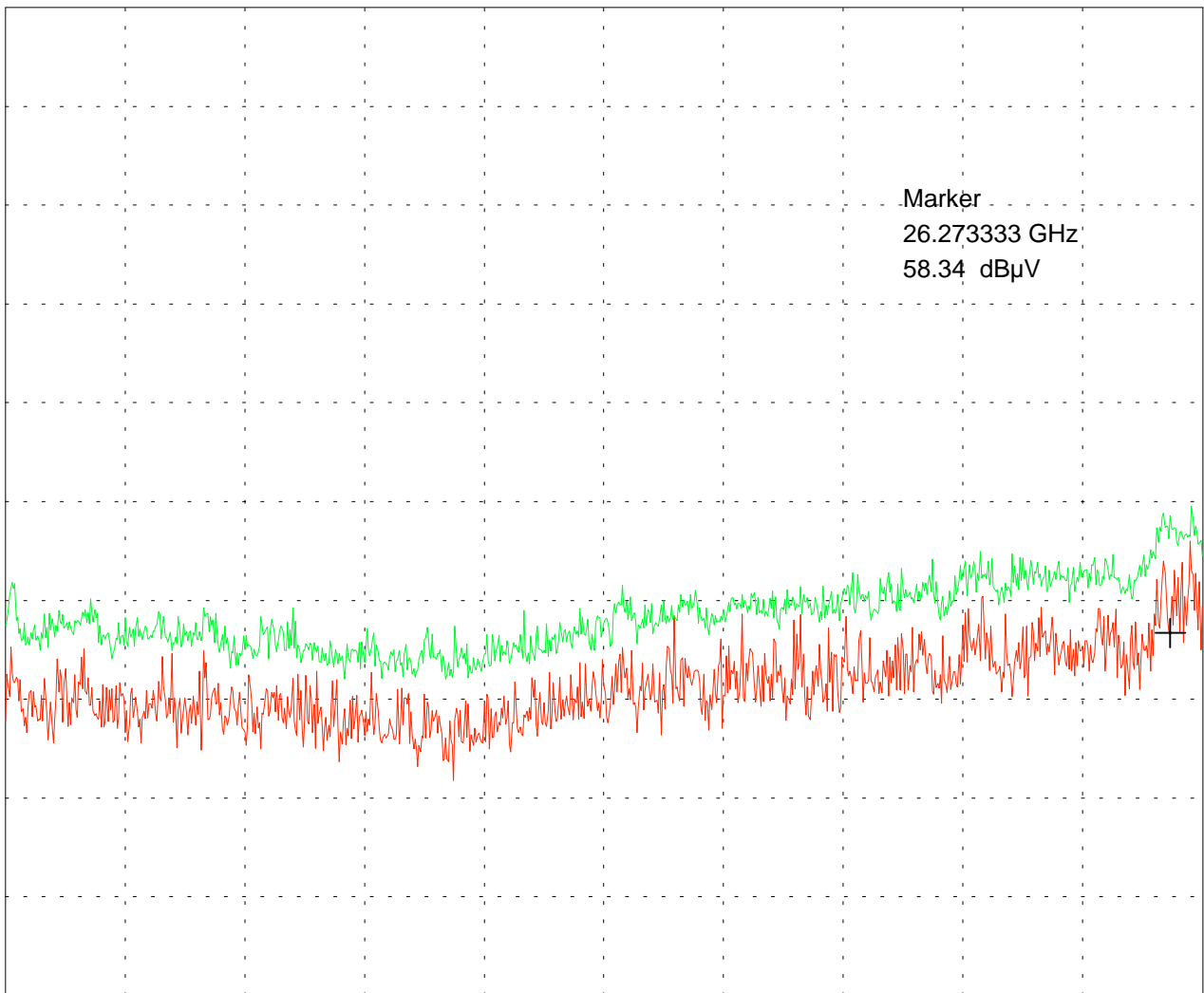
Spurious emissions according to FCC Rules

Model: IHF1700 Music	Mode: - TX Mode at Middle Channel
Serial No.: # 080507-1	- Test Distance = 0.5 m
Applicant: Motorola Ltd.	- Horizontal & Vertical Polarisation

Ref.Level 90 dB μ V
5 dB/Div.

ATT 0 dB

Ref. Offset 43 dB



Start 18.000 GHz
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz
SWP 40 ms

Tested by: Johann Roidt	Project-No.: 55608-080507-2
Date: 10 July 2008	Page of pages

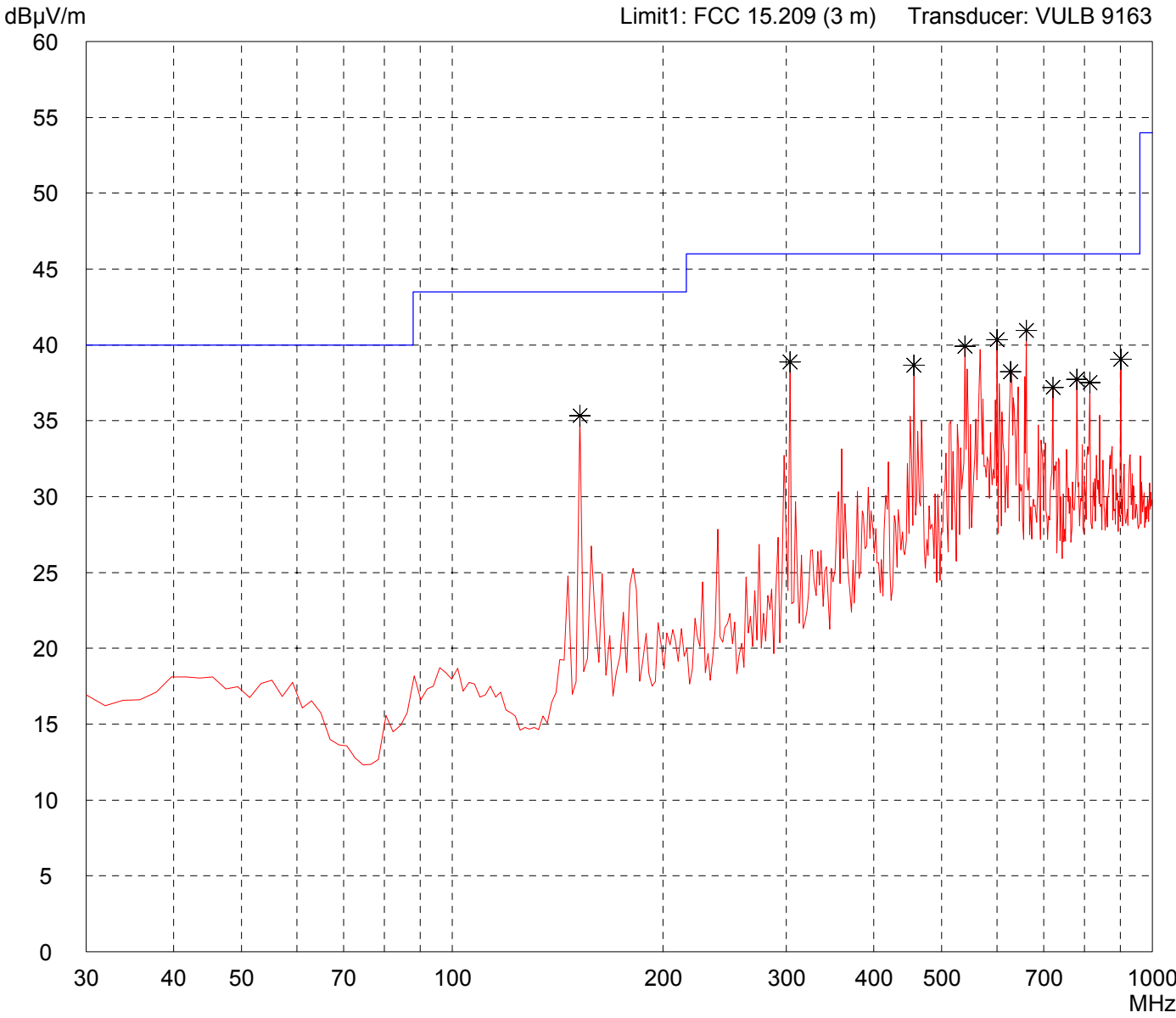
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 78	
--	--

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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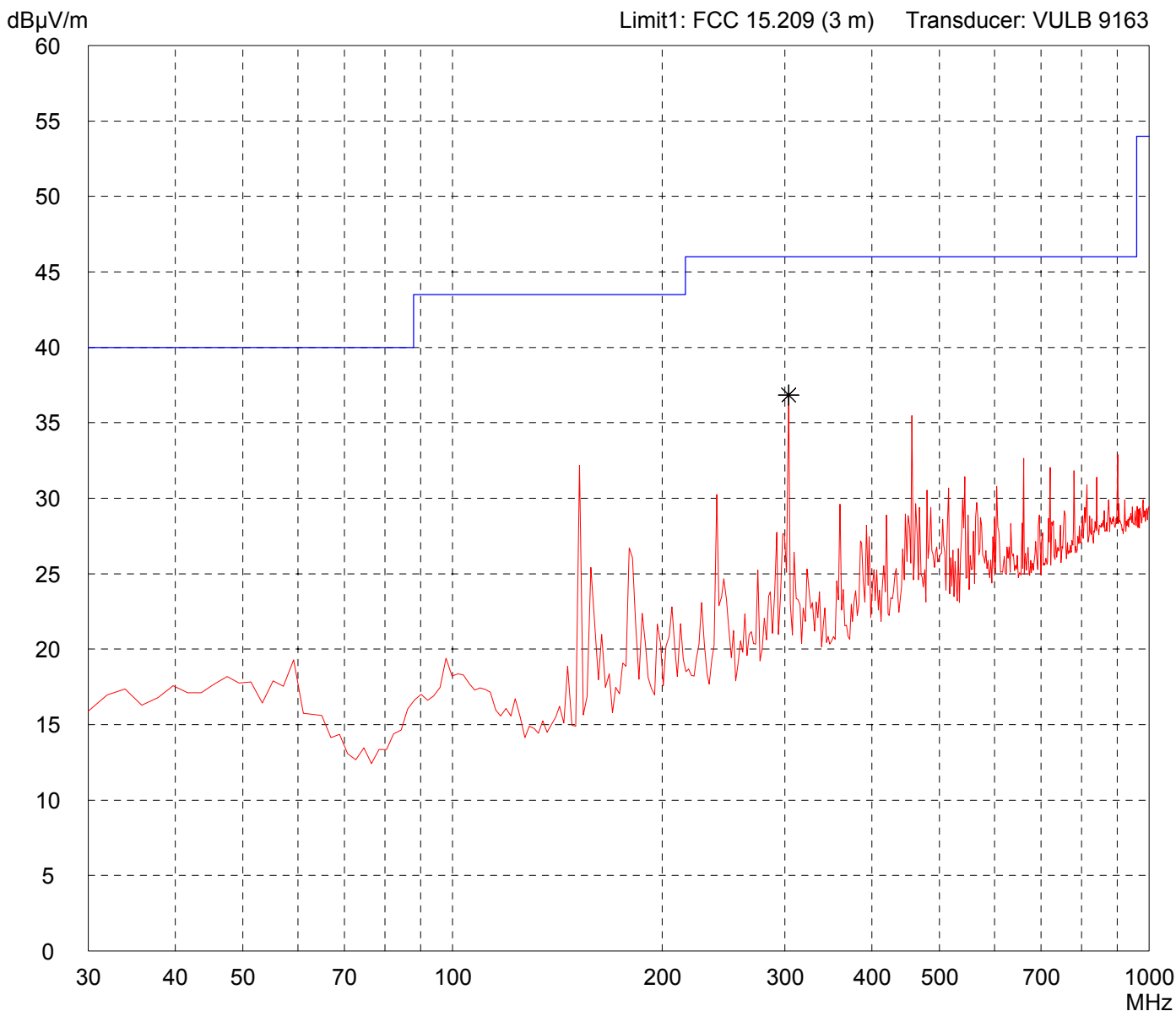
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 78
--

Detector: Peak

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



Result: Limit kept

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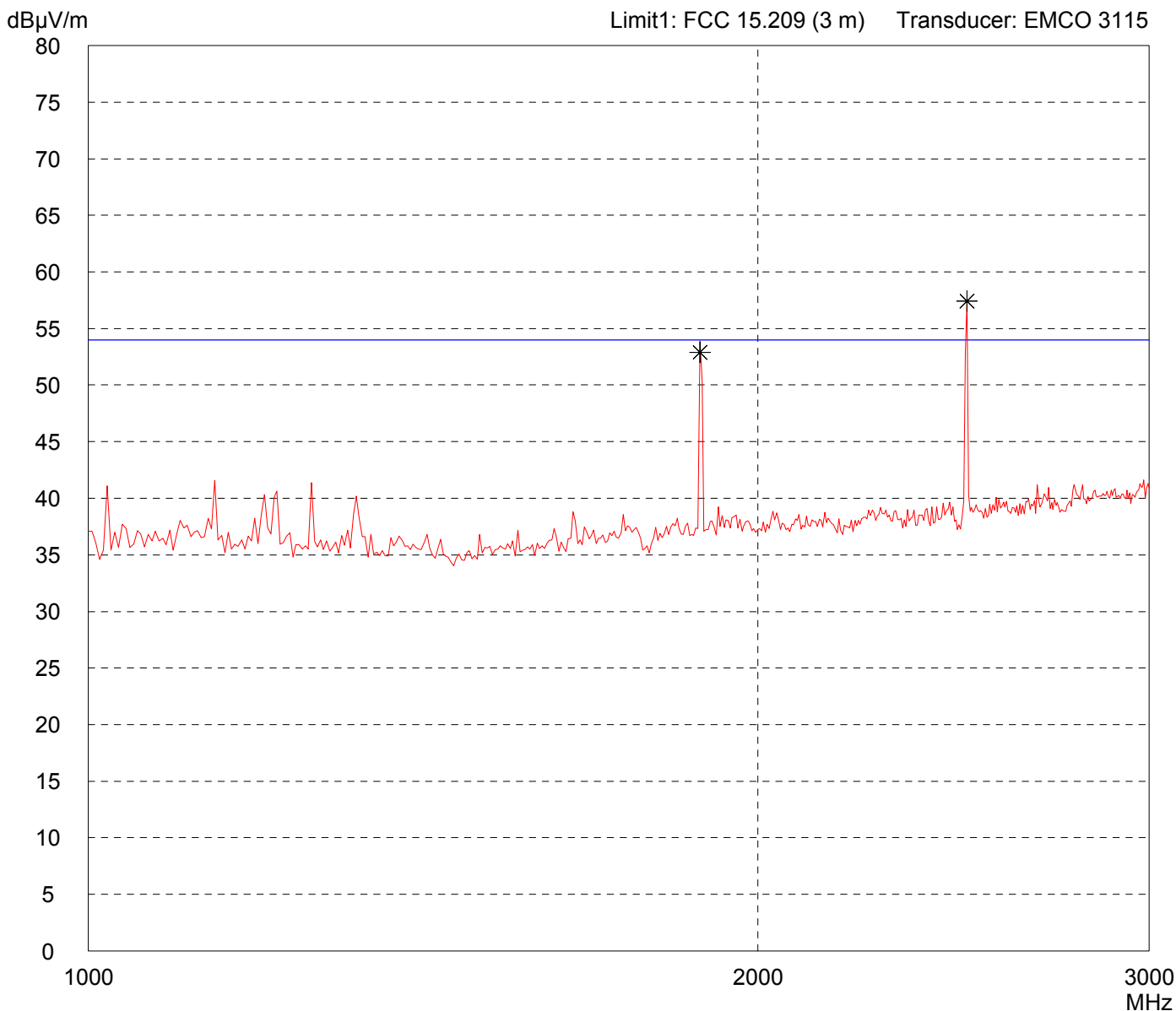
Radiated Emission Test 1 GHz - 3 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 78
--

Detector: Peak

List of values: Selected by hand



Result: Limit kept

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Radiated Emission Test 1 GHz - 3 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
IHF 1700 Music

Serial no.:
080507-4 / 059

Applicant:
Motorola Ltd.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 3 metres
Vertical Polarization

Date of test:
07/10/2008

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

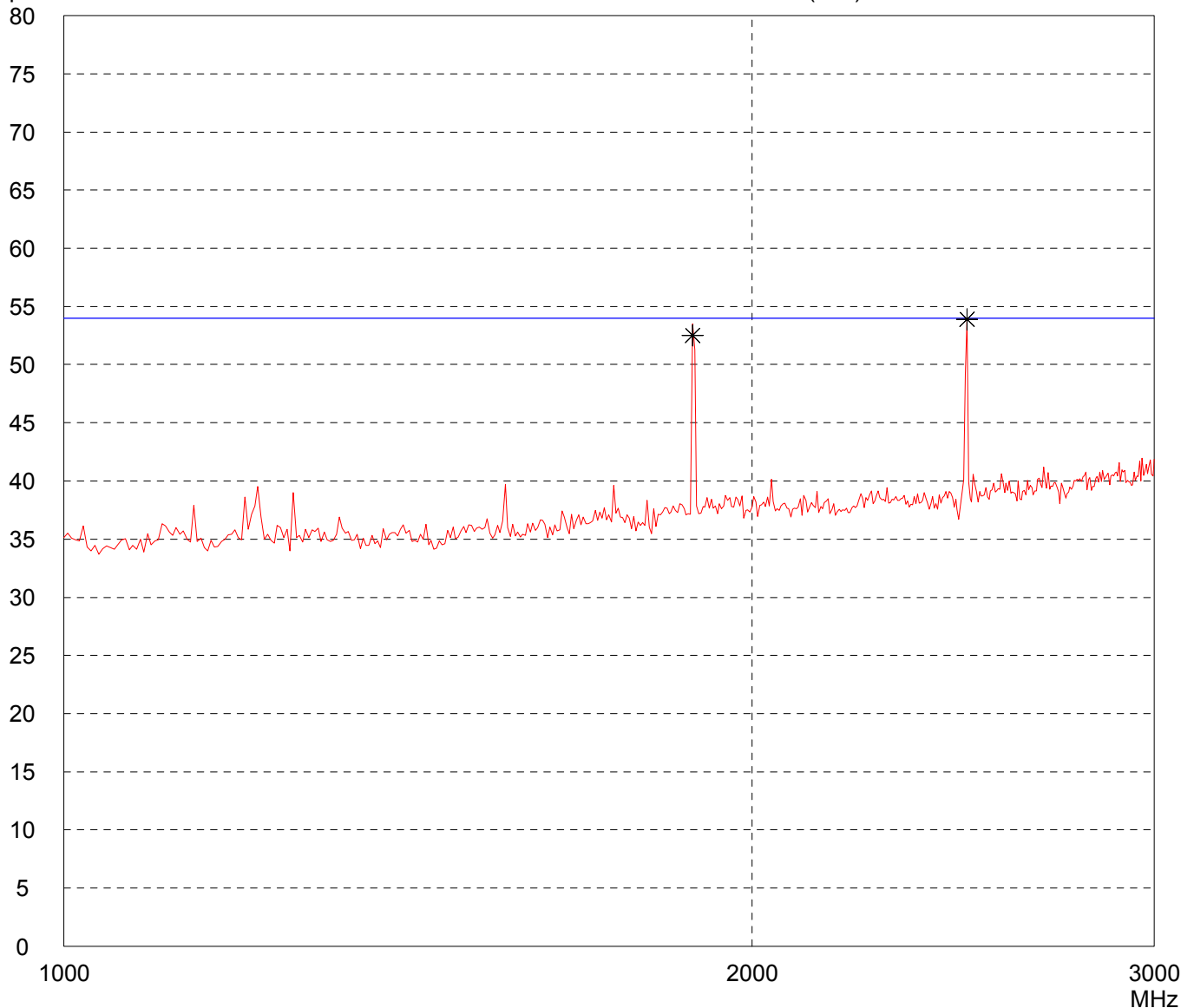
Comment:
- Transmitter Test at Channel 78

Detector:
Peak

List of values:
Selected by hand

dB μ V/m

Limit1: FCC 15.209 (3 m) Transducer: EMCO 3115



Result:
Limit kept

Project file:
55608-80507-2

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Radiated Emission Test 3 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
IHF 1700 Music

Serial no.:
080507-4 / 059

Applicant:
Motorola Ltd.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Horizontal Polarization

Date of test:
07/10/2008

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

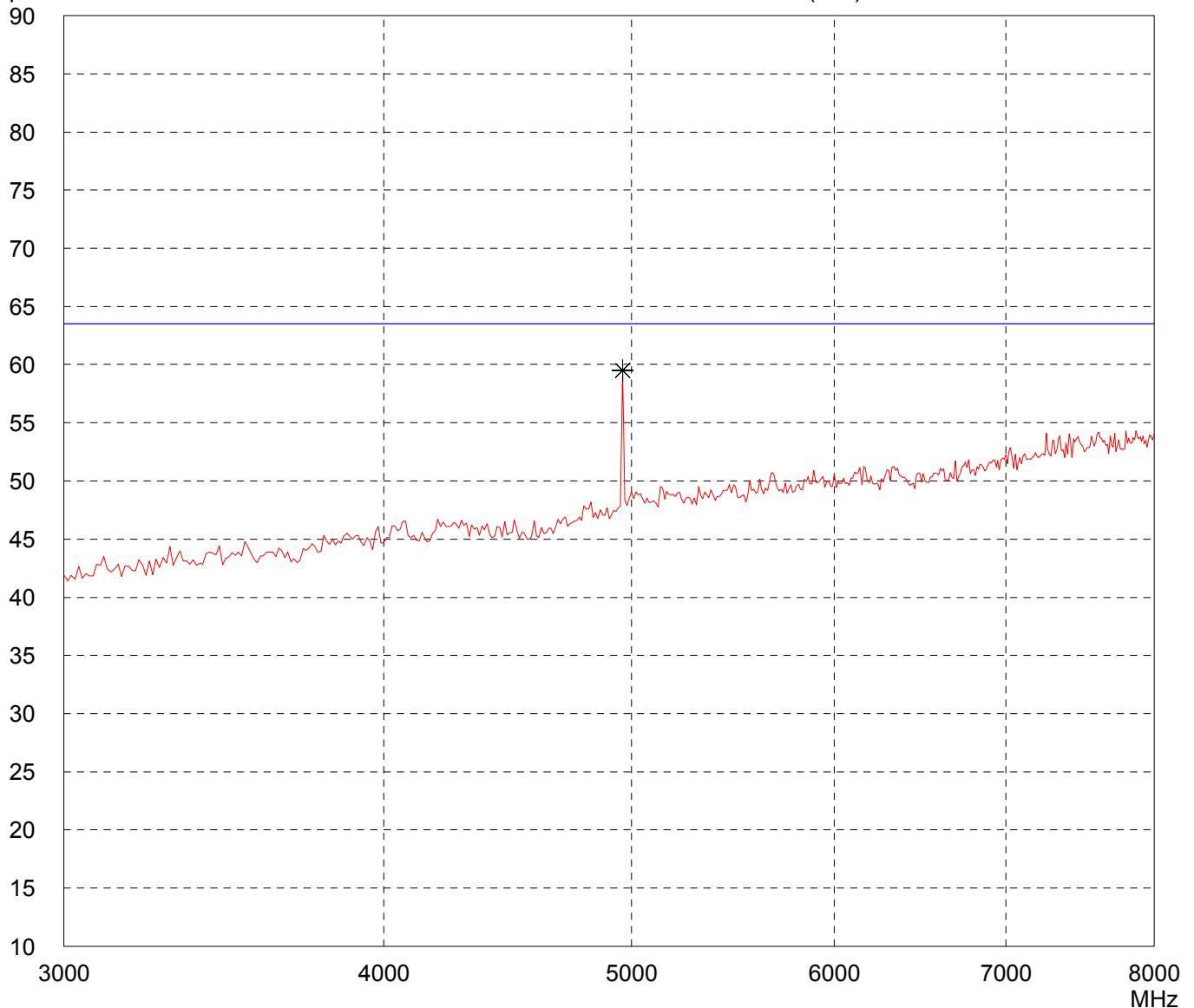
Comment:
- Transmitter Test at Channel 78

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:
55608-80507-2

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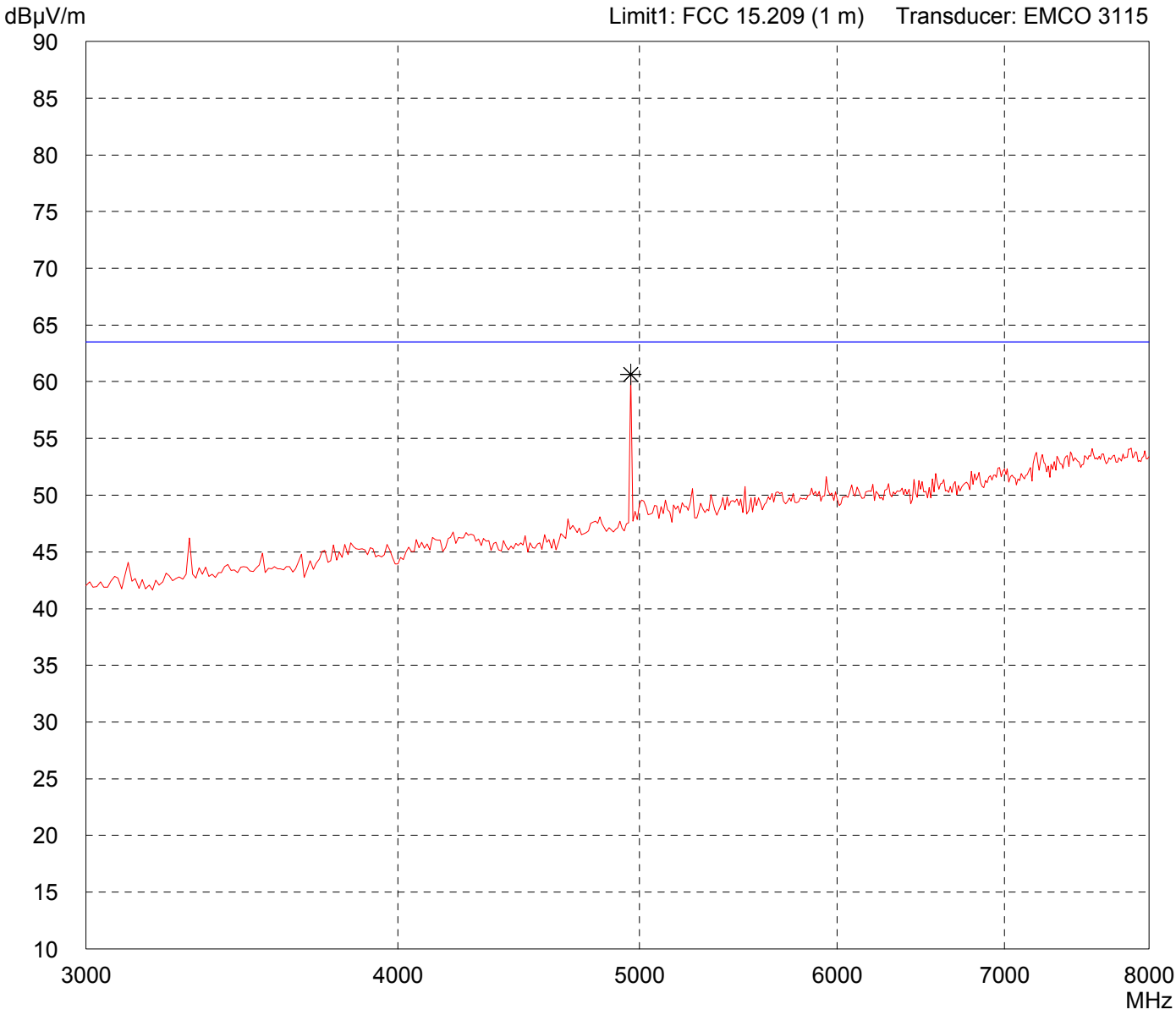
Radiated Emission Test 3 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 78
--

Detector: Peak

List of values: Selected by hand



Result: Limit kept

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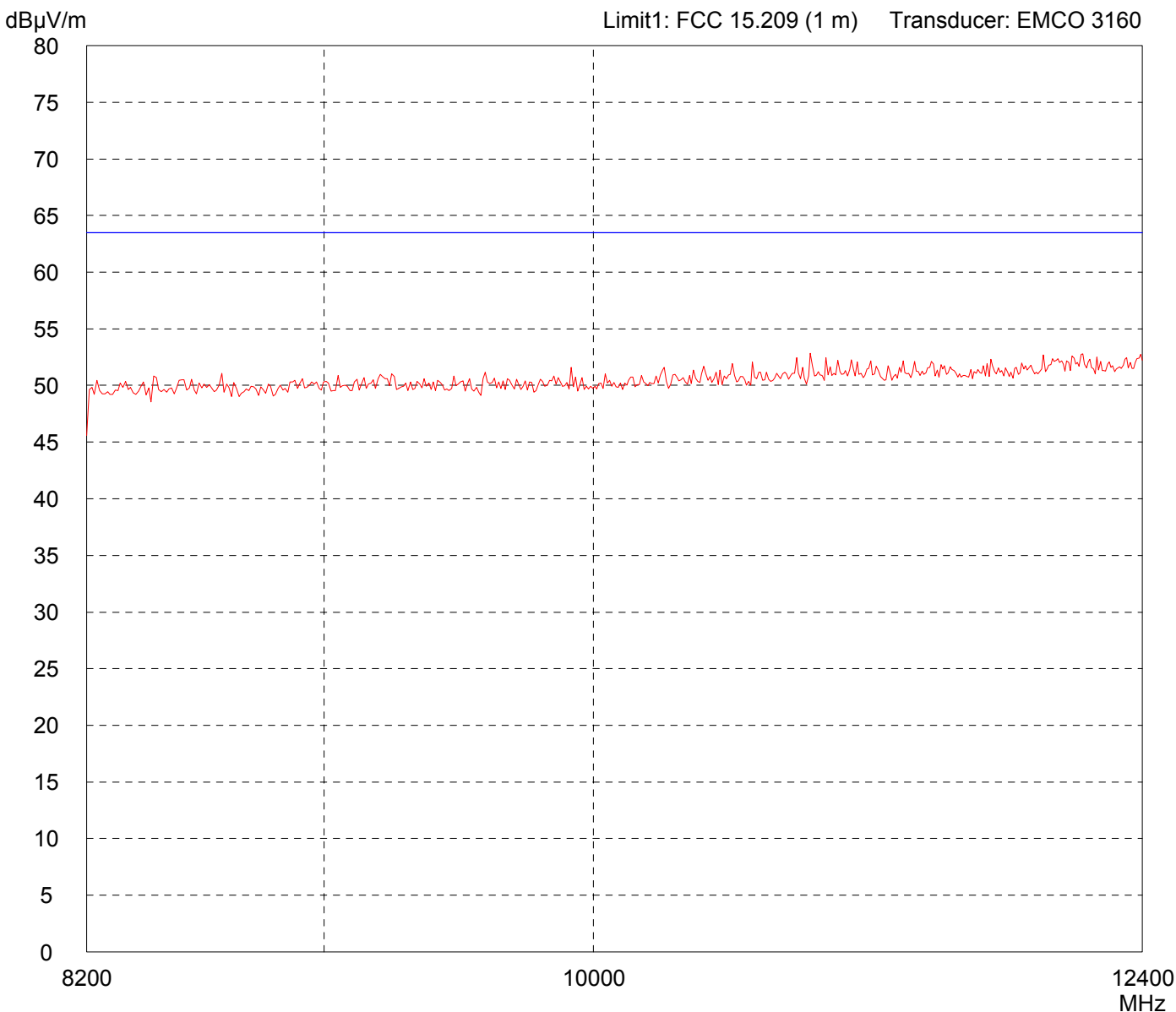
Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Transmitter Test at Channel 78

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Limit kept

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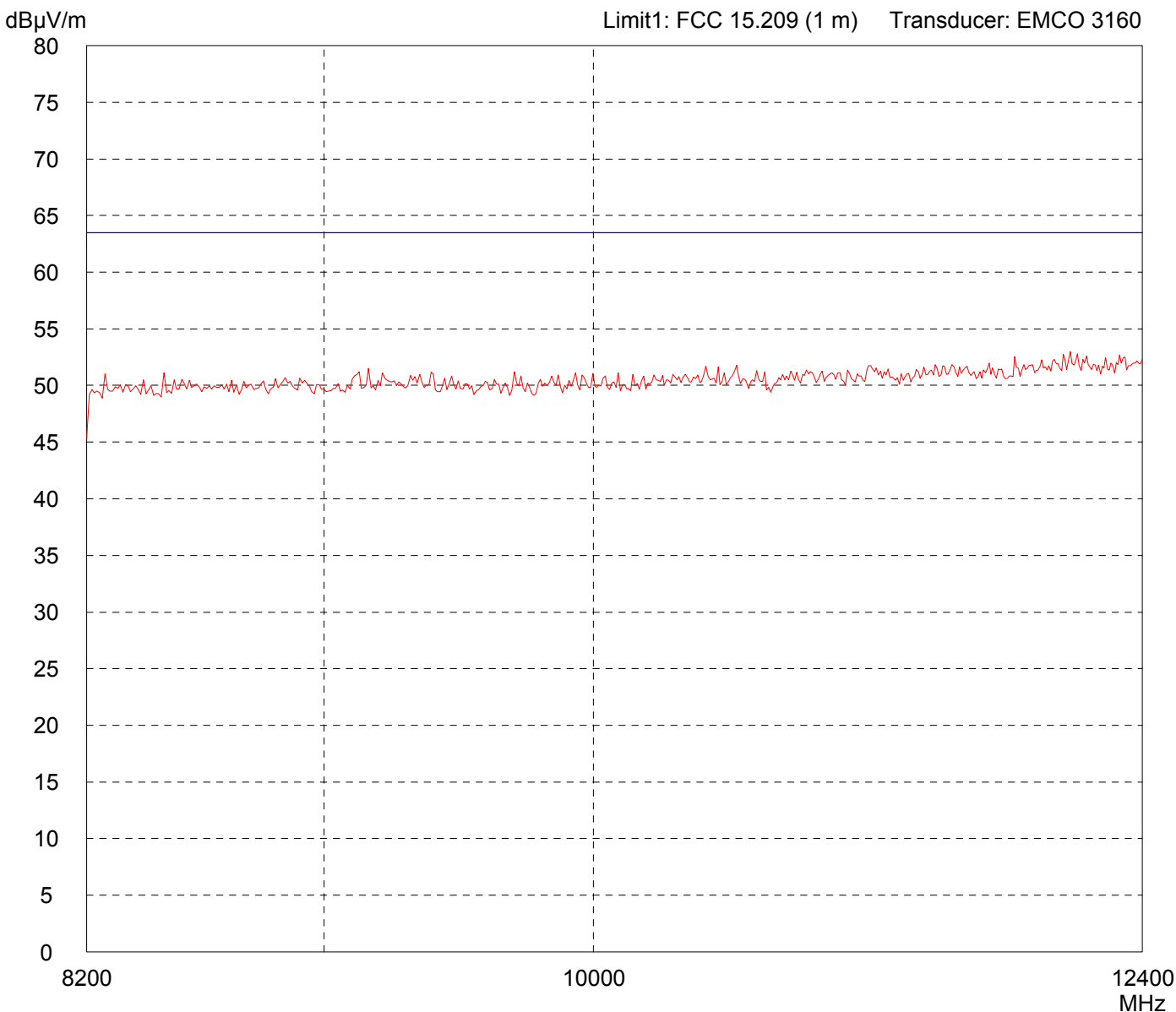
Radiated Emission Test 8.2 GHz - 12.4 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Transmitter Test at Channel 78	
--	--

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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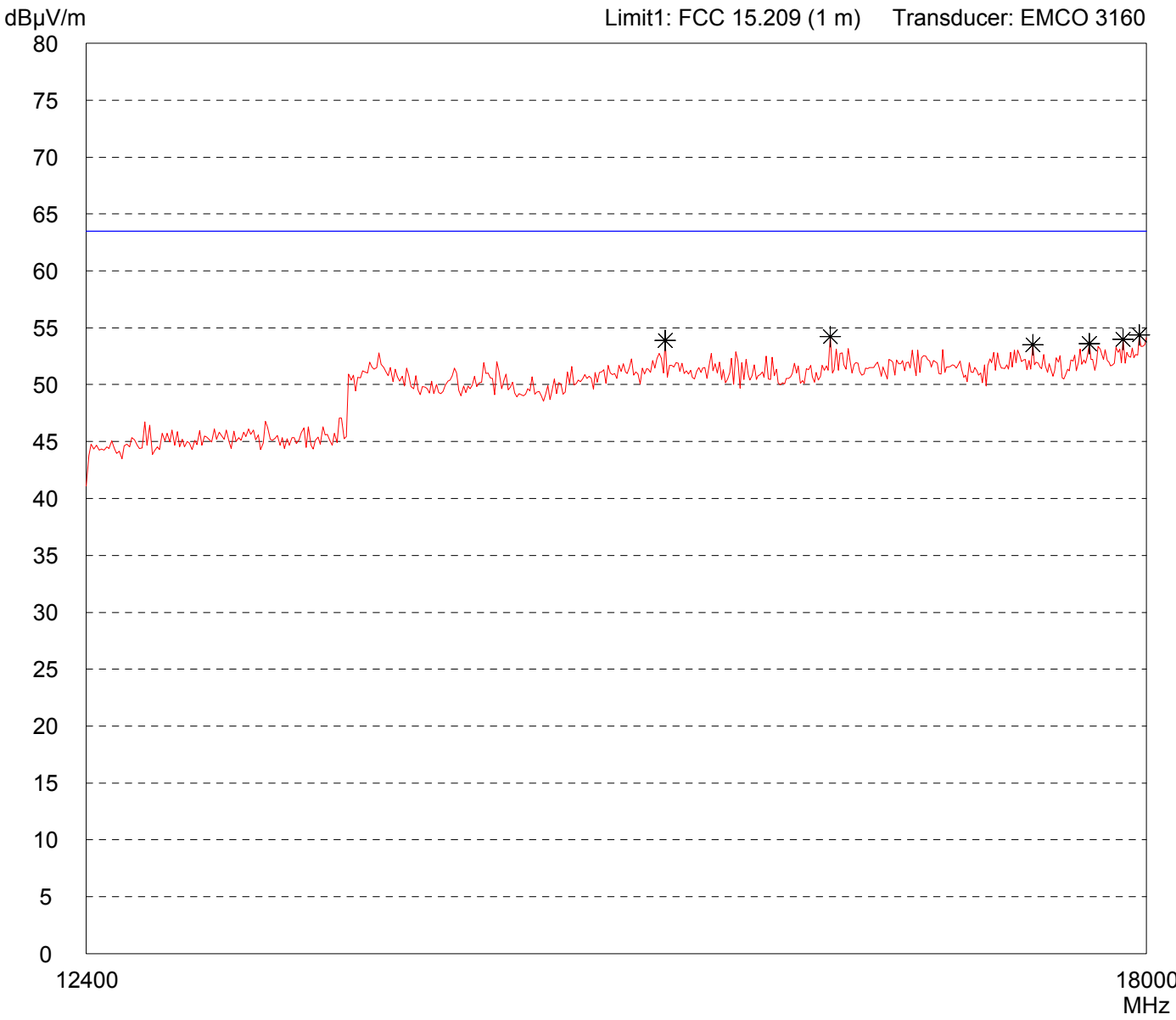
Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Comment:
- Transmitter Test at Channel 78

Detector:
Peak

List of values:
10 dB Margin 50 Subranges



Result:
Limit kept

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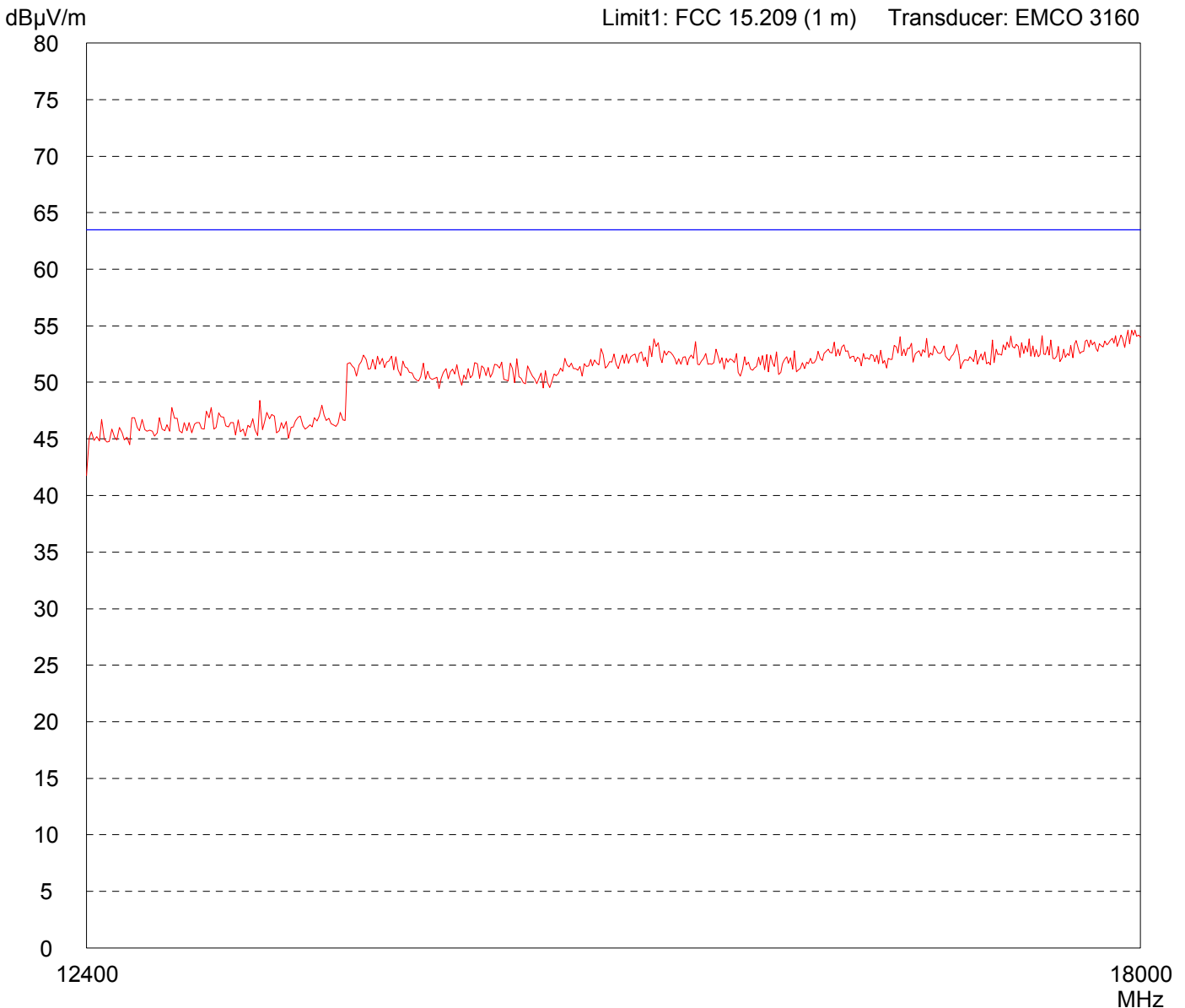
Radiated Emission Test 12.4 GHz - 18 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 meter Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: by hand	File name: default.emi

Comment: - Transmitter Test at Channel 78
--

Detector: Peak

List of values: Selected by hand



Result: Limit kept

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Spurious emissions according to FCC Rules

Model:
IHF1700 Music

Serial No.:
080507-1

Applicant:
Motorola Ltd.

Mode:
- TX Mode at High Channel

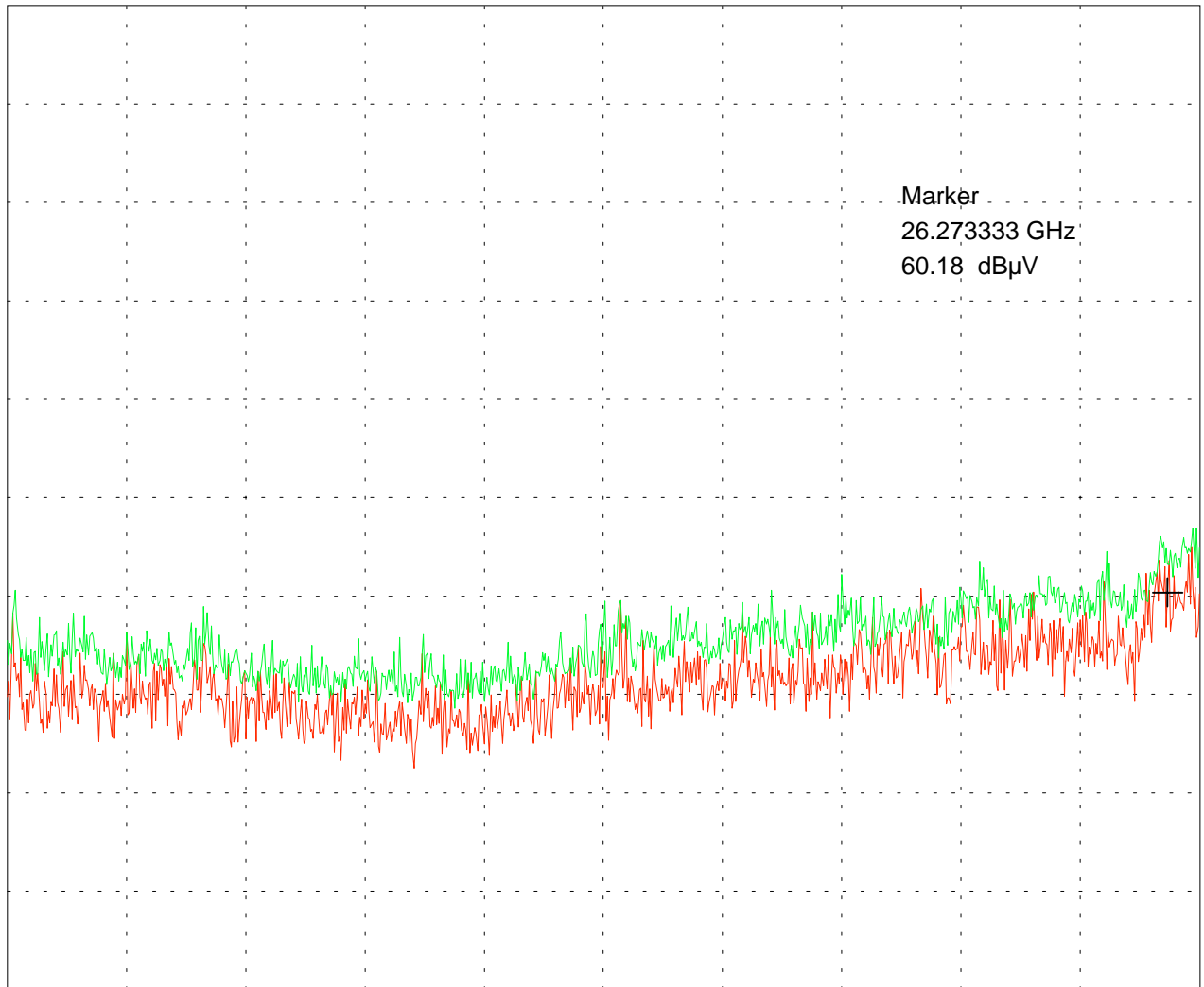
- Test Distance = 0.5 m

- Horizontal & Vertical Polarisation

Ref.Level 90 dB μ V
5 dB/Div.

ATT 0 dB

Ref. Offset 43 dB



Start 18.000 GHz
RBW 1 MHz

VBW 1 MHz

Stop 26.500 GHz
SWP 40 ms

Tested by:
Johann Roidt

Date:
10 July 2008

Project-No.:
55608-080507-2

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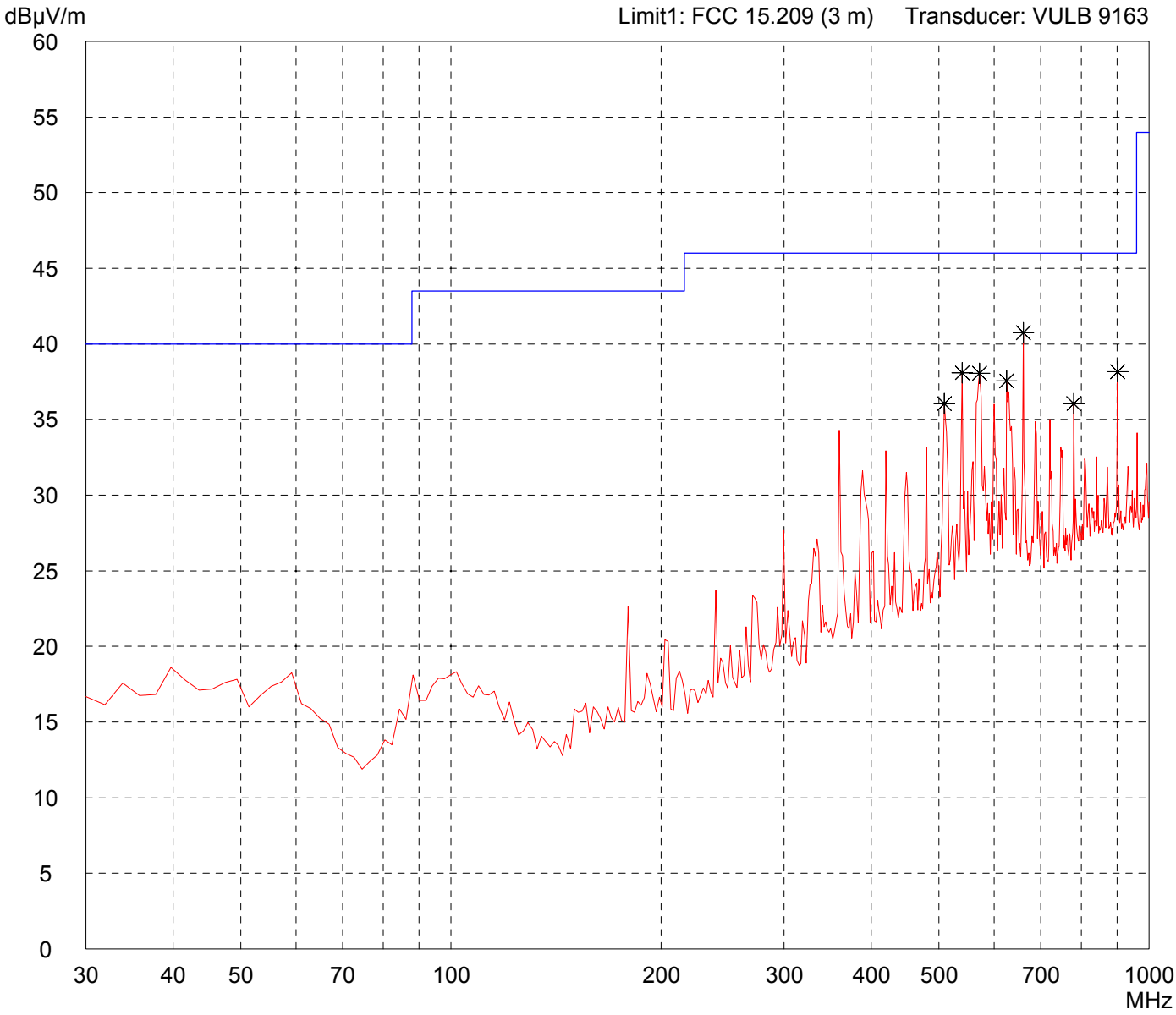
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Receiver Test at Channel 39

Detector: Peak

List of values: 10 dB Margin	50 Subranges
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Result: Limit kept

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

<p>Model: IHF 1700 Music</p> <p>Serial no.: 080507-4 / 059</p> <p>Applicant: Motorola Ltd.</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 3 metres Horizontal Polarization</p> <p>Date of test: Operator: 07/10/2008 J. Roidt</p> <p>Test performed: File name: automatically default.emi</p>	<p>Comment: - Receiver Test at Channel 39</p>
---	---

<p>Detector: Peak</p>	<p>List of values: 10 dB Margin 50 Subranges</p>
---------------------------	---

<i>Frequency [MHz]</i>	<i>Reading [dBμV]</i>	<i>Correction factor [dB]</i>	<i>Value [dBμV/m]</i>	<i>Limit [dBμV/m]</i>	<i>Limit exceeded</i>
509.180000	16.88	19.16	36.04	46.00	
540.220000	18.27	19.81	38.08	46.00	
571.260000	17.62	20.42	38.04	46.00	
625.580000	16.44	21.11	37.55	46.00	
660.500000	19.43	21.30	40.72	46.00	
780.780000	13.40	22.66	36.06	46.00	
901.060000	13.99	24.18	38.17	46.00	

<p>Result: Limit kept</p>	<p>Project file: 55608-80507-2</p> <p style="text-align: right;">Page of Pages</p>
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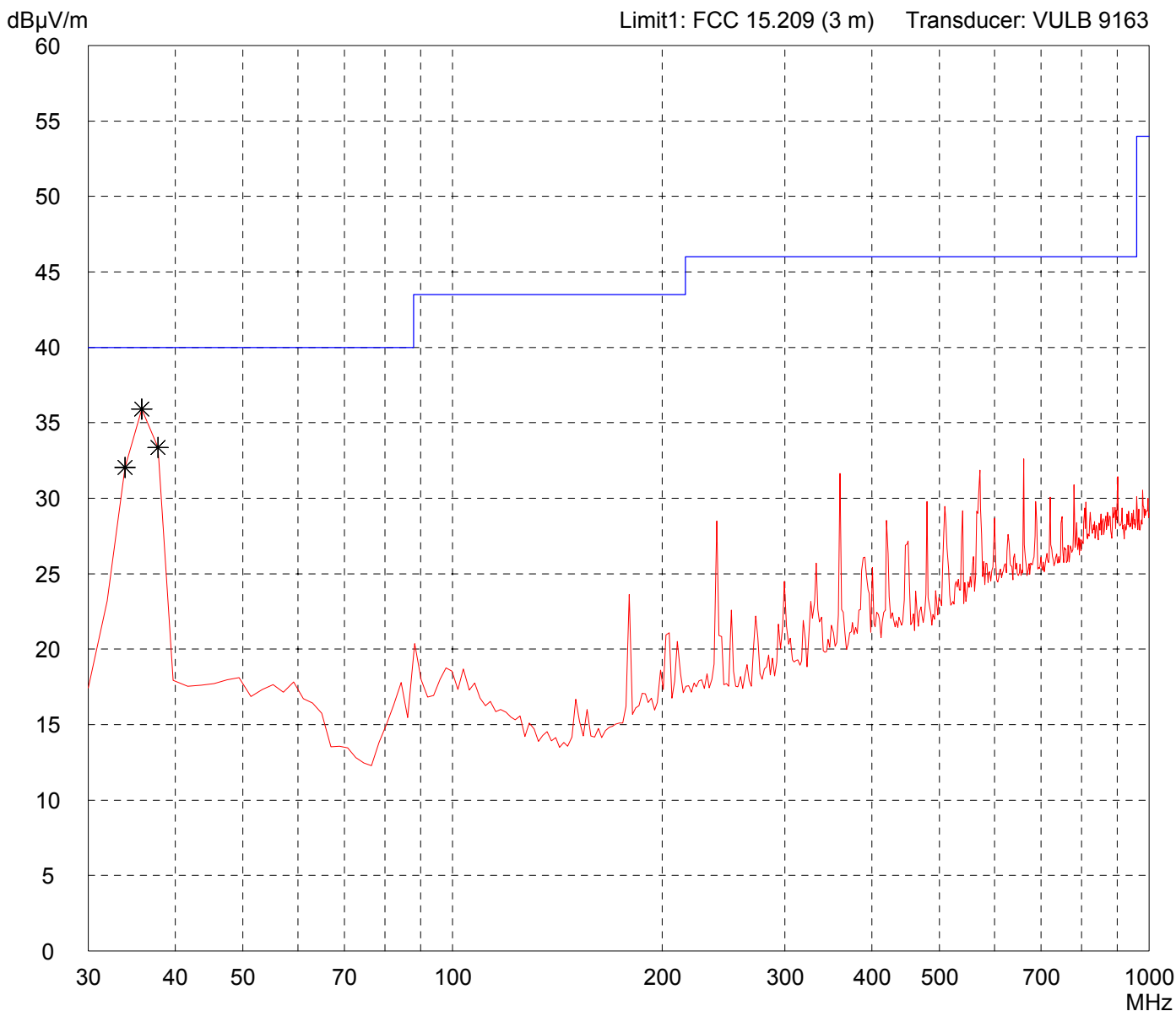
Radiated Emission Test 30 MHz - 1 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 3 metres Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Receiver Test at Channel 39

Detector: Peak

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



Result: Limit kept

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

<p>Model: IHF 1700 Music</p> <p>Serial no.: 080507-4 / 059</p> <p>Applicant: Motorola Ltd.</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 3 metres Vertical Polarization</p> <p>Date of test: Operator: 07/10/2008 J. Roidt</p> <p>Test performed: File name: automatically default.emi</p>	<p>Comment: - Receiver Test at Channel 39</p>
---	---

<p>Detector: Peak</p>	<p>List of values: 10 dB Margin 50 Subranges</p>
---------------------------	---

<i>Frequency [MHz]</i>	<i>Reading [dBμV]</i>	<i>Correction factor [dB]</i>	<i>Value [dBμV/m]</i>	<i>Limit [dBμV/m]</i>	<i>Limit exceeded</i>
33.880000	18.43	13.62	32.06	40.00	
35.820000	22.05	13.84	35.89	40.00	
37.760000	19.00	14.35	33.35	40.00	

<p>Result: Limit kept</p>	<p>Project file: 55608-80507-2</p> <p style="text-align: right;">Page of Pages</p>
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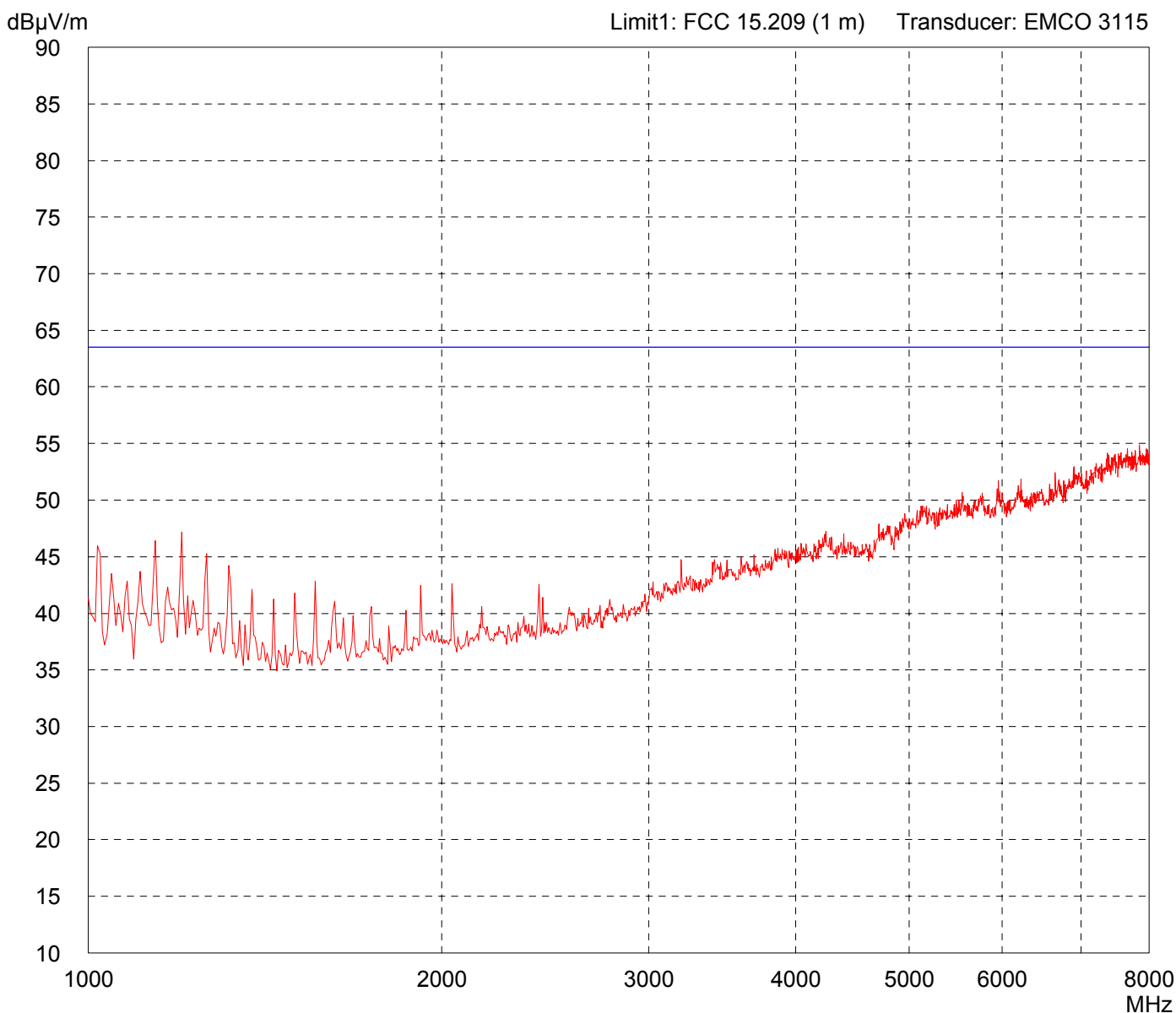
Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Receiver Test at Channel 39

Detector:
Peak

List of values:
Selected by hand



Result:
Limit kept

Project file:
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Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

<p>Model: IHF 1700 Music</p> <p>Serial no.: 080507-4 / 059</p> <p>Applicant: Motorola Ltd.</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 1 metre Horizontal Polarization</p> <p>Date of test: Operator: 07/10/2008 J. Roidt</p> <p>Test performed: File name: automatically default.emi</p>	<p>Comment: - Receiver Test at Channel 39</p>
--	---

<p>Detector: Peak</p>	<p>List of values: Selected by hand</p>
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<i>Frequency</i> [MHz]	<i>Reading</i> [dB μ V]	<i>Correction factor</i> [dB]	<i>Value</i> [dB μ V/m]	<i>Limit</i> [dB μ V/m]	<i>Limit exceeded</i>
no results					

<p>Result: Limit kept</p>	<p>Project file: 55608-80507-2</p> <p style="text-align: right;">Page of Pages</p>
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Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

Model:
IHF 1700 Music

Serial no.:
080507-4 / 059

Applicant:
Motorola Ltd.

Test site:
Fully anechoic room, cabin no. 2

Tested on:
Test distance 1 metre
Vertical Polarization

Date of test:
07/10/2008

Operator:
J. Roidt

Test performed:
automatically

File name:
default.emi

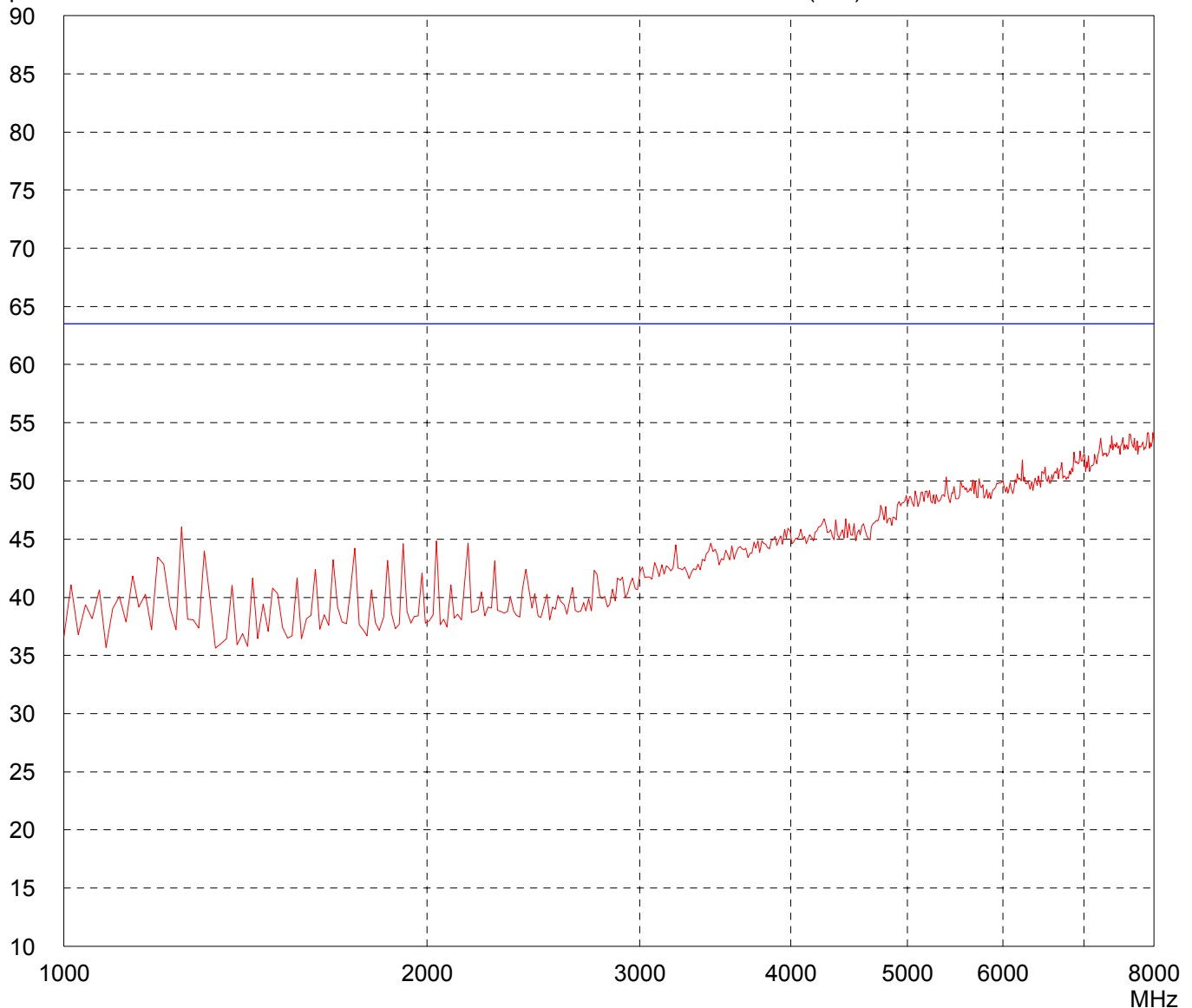
Comment:
- Receiver Test at Channel 39

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:
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Radiated Emission Test 1 GHz - 8 GHz acc. to FCC Part 15 Subpart C (FAR)

<p>Model: IHF 1700 Music</p> <p>Serial no.: 080507-4 / 059</p> <p>Applicant: Motorola Ltd.</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 1 metre Vertical Polarization</p> <p>Date of test: Operator: 07/10/2008 J. Roidt</p> <p>Test performed: File name: automatically default.emi</p>	<p>Comment: - Receiver Test at Channel 39</p>
--	---

<p>Detector: Peak</p>	<p>List of values: Selected by hand</p>
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<i>Frequency</i> [MHz]	<i>Reading</i> [dB μ V]	<i>Correction factor</i> [dB]	<i>Value</i> [dB μ V/m]	<i>Limit</i> [dB μ V/m]	<i>Limit exceeded</i>
no results					

<p>Result: Limit kept</p>	<p>Project file: 55608-80507-2</p> <p style="text-align: right;">Page of Pages</p>
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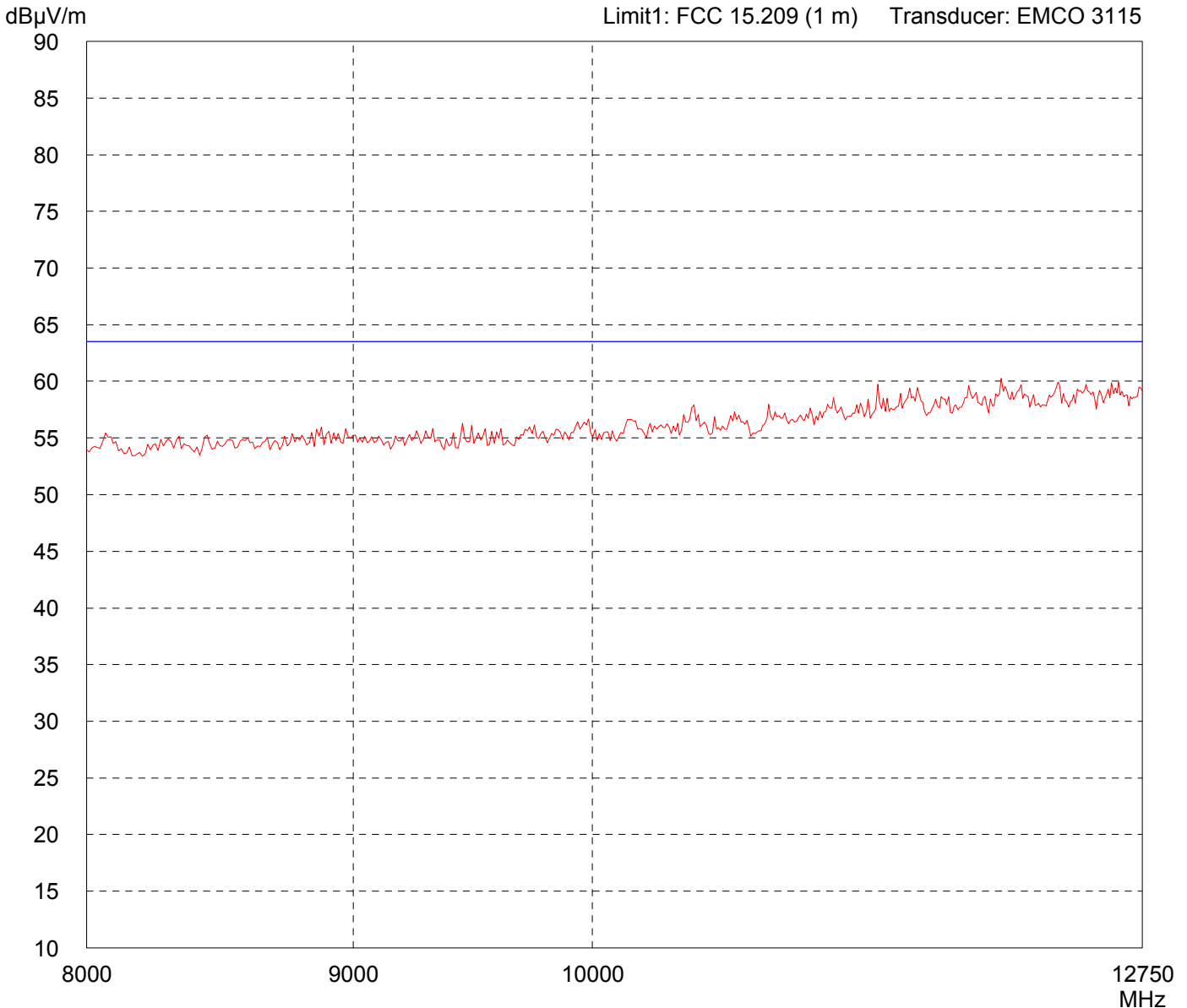
Radiated Emission Test 8 GHz - 12.75 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Horizontal Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment: - Receiver Test at Channel 39

Detector: Peak

List of values: Selected by hand



Result: Limit kept

Project file: 55608-80507-2	Page of Pages
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Radiated Emission Test 8 GHz - 12.75 GHz acc. to FCC Part 15 Subpart C (FAR)

<p>Model: IHF 1700 Music</p> <p>Serial no.: 080507-4 / 059</p> <p>Applicant: Motorola Ltd.</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 1 metre Horizontal Polarization</p> <p>Date of test: Operator: 07/10/2008 J. Roidt</p> <p>Test performed: File name: automatically default.emi</p>	<p>Comment: - Receiver Test at Channel 39</p>
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<p>Detector: Peak</p>	<p>List of values: Selected by hand</p>
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<i>Frequency [MHz]</i>	<i>Reading [dBμV]</i>	<i>Correction factor [dB]</i>	<i>Value [dBμV/m]</i>	<i>Limit [dBμV/m]</i>	<i>Limit exceeded</i>
no results					

<p>Result: Limit kept</p>	<p>Project file: 55608-80507-2</p> <p style="text-align: right;">Page of Pages</p>
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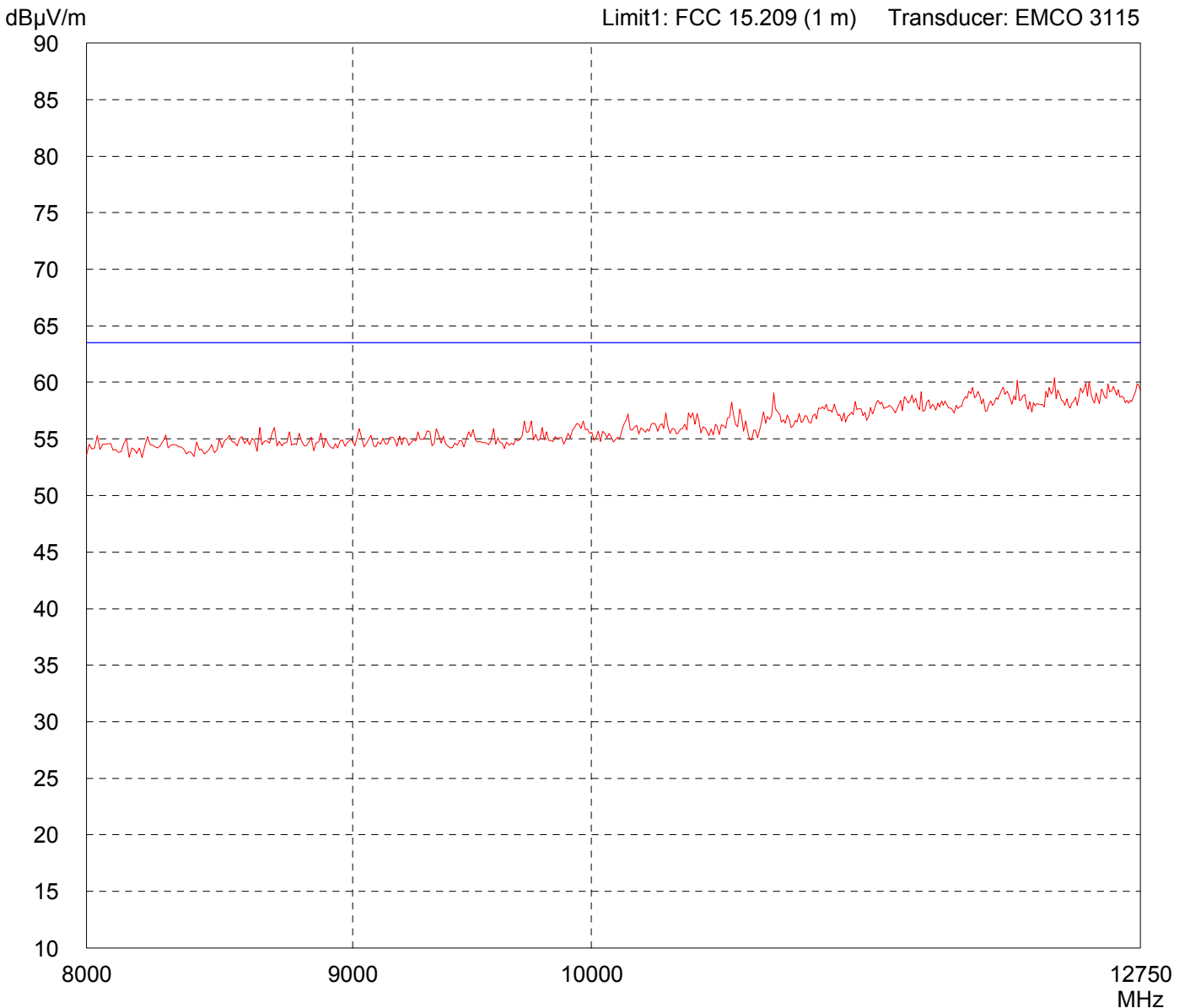
Radiated Emission Test 8 GHz - 12.75 GHz acc. to FCC Part 15 Subpart C (FAR)

Model: IHF 1700 Music	
Serial no.: 080507-4 / 059	
Applicant: Motorola Ltd.	
Test site: Fully anechoic room, cabin no. 2	
Tested on: Test distance 1 metre Vertical Polarization	
Date of test: 07/10/2008	Operator: J. Roidt
Test performed: automatically	File name: default.emi

Comment:
- Receiver Test at Channel 39

Detector:
Peak

List of values:
Selected by hand



Result:
Limit kept

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

<p>Model: IHF 1700 Music</p> <p>Serial no.: 080507-4 / 059</p> <p>Applicant: Motorola Ltd.</p> <p>Test site: Fully anechoic room, cabin no. 2</p> <p>Tested on: Test distance 1 metre Vertical Polarization</p> <p>Date of test: Operator: 07/10/2008 J. Roidt</p> <p>Test performed: File name: automatically default.emi</p>	<p>Comment: - Receiver Test at Channel 39</p>
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<p>Detector: Peak</p>	<p>List of values: Selected by hand</p>
---------------------------	---

<i>Frequency</i> [MHz]	<i>Reading</i> [dB μ V]	<i>Correction factor</i> [dB]	<i>Value</i> [dB μ V/m]	<i>Limit</i> [dB μ V/m]	<i>Limit exceeded</i>
no results					

<p>Result: Limit kept</p>	<p>Project file: 55608-80507-2</p> <p style="text-align: right;">Page of Pages</p>
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