



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 7**

**CERTIFICATION TEST REPORT
FOR**

CAR CHARGER/ FM TRANSMITTER

MODEL NUMBER: 1129

FCC ID: CK3-1129

IC: 3048A-1129

REPORT NUMBER: 07U11178-1, REVISION B

ISSUE DATE: SEPTEMBER 28, 2007

Prepared for
**MICROSOFT CORPORATION
1065 LA AVENIDA
MOUNTAIN VIEW, CA 94043, USA**

Prepared by
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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	7/31/2007	Initial Issue	M. Heckrotte
B	9/28/2007	Revised setup diagram, Clarified fundamental field strength data	M. Heckrotte

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: MICROSOFT CORPORATION
1065 LA AVENIDA
MOUNTAIN VIEW, CA 94043, USA

EUT DESCRIPTION: CAR CHARGER/ FM TRANSMITTER

MODEL: 1129

SERIAL NUMBER: LCDV180276

DATE TESTED: JULY 25-27, 2007

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART C	NO NON-COMPLIANCE NOTED
RSS-210 ISSUE 7 ANNEX 2	NO NON-COMPLIANCE NOTED
RSS-GEN ISSUE 2	NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



MICHAEL HECKROTTE
ENGINEERING MANAGER
COMPLIANCE CERTIFICATION SERVICES

THANH NGUYEN
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN ISSUE 2, and RSS-210 ISSUE 7 ANNEX 2.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Radiated Emission, 30 to 200 MHz	+/- 3.3 dB
Radiated Emission, 200 to 1000 MHz	+4.5 / -2.9 dB
Radiated Emission, 1000 to 2000 MHz	+4.5 / -2.9 dB
Power Line Conducted Emission	+/- 2.9 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a low power FM Broadcast Band Transmitter powered by a 12V DC car battery.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum radiated fundamental field strength at 3m distance as follows:

Frequency Range (MHz)	Maximum Fund F.S. (dBuV/m)
88.1 - 107.9	46.14

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an integrated monopole antenna.

5.4. SOFTWARE AND FIRMWARE

The software used during testing was Zune Setup.exe.

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case channel is determined as the channel with the highest field strength.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
ZUNE MP3 Player	Microsoft	1089	32590264910.00	N/A
Car DC Power Plug	DC Switching Power Supply	CLM05D-050Z-R	N/A	N/A

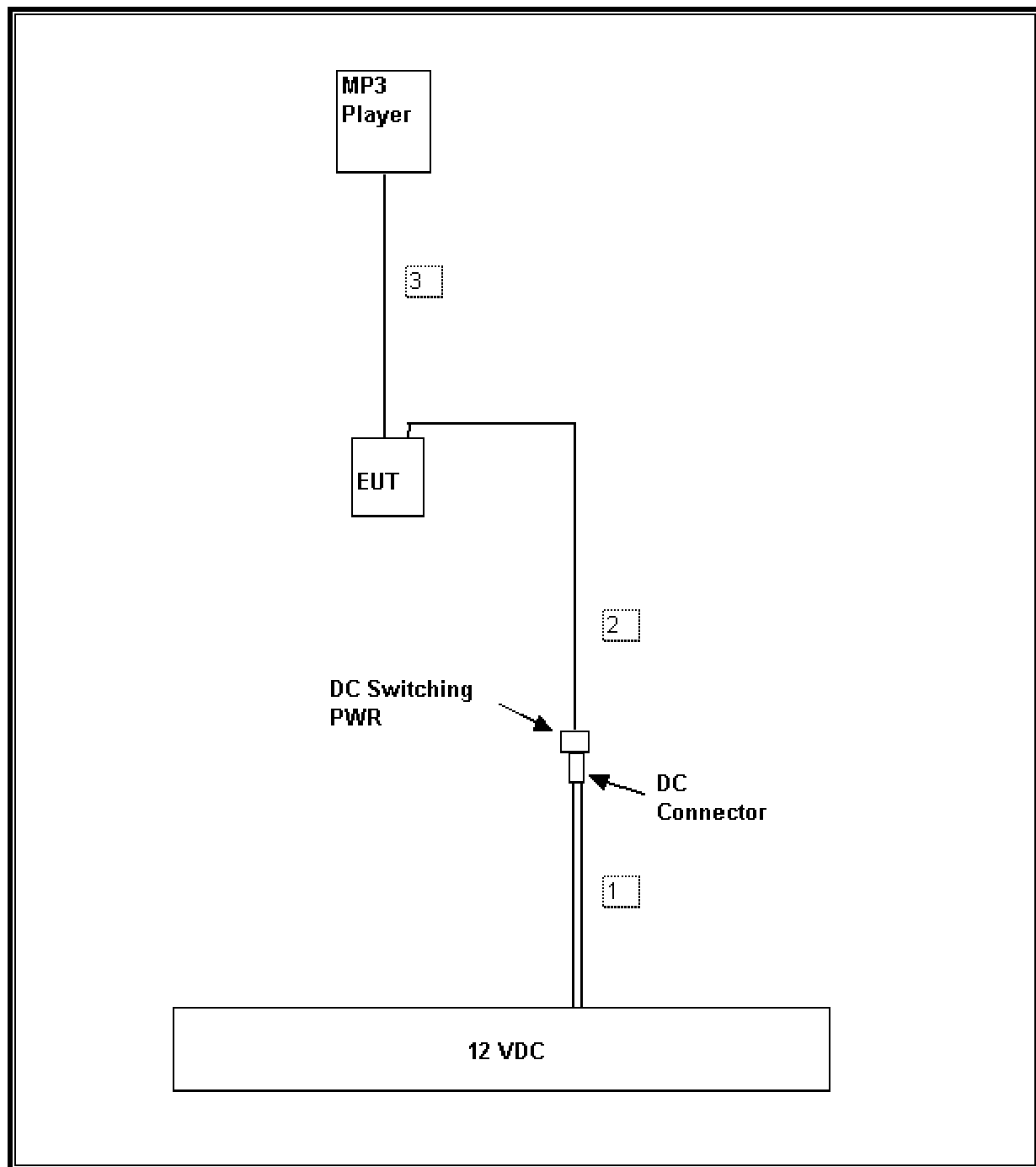
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	DC	1	DC Plug	Unshielded	1.5m	No
2	DC	1	Car DC Plug	Unshielded	.5m	No
3	Lin out	1	Line out	Unshielded	.5m	No

TEST SETUP

The EUT is connected to an MP3 player during the tests. An audio music file at maximum volume was running continuously.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	Cal Due
EMI Receiver, 9 kHz ~ 2.9 GHz	HP	8542E	3942A00286	6/12/2008
RF Filter Section	HP	85420E	3705A00256	6/12/08
Preamplifier	HP	8447D	1937A02062	5/9/08
Antenna, Bilog 30MHz ~ 2Ghz	Sunol Sciences	JB1	A0022704	8/13/07
Spectrum Analyzer 3 Hz ~ 44 GHz	Agilent	E4446A	US42070220	10/18/07
Antenna, Horn 1 ~ 18 GHz	EMCO	3115	2238	4/15/08
Preamplifier 1-26.5 GHz	HP	8449B	3008A00931	10/3/07

7. LIMITS AND RESULTS

7.1. 20 dB AND 99% BANDWIDTH

LIMIT

§15.239 (b)
RSS-210 Issue 7 Clause A2.8

200 kHz

TEST PROCEDURE

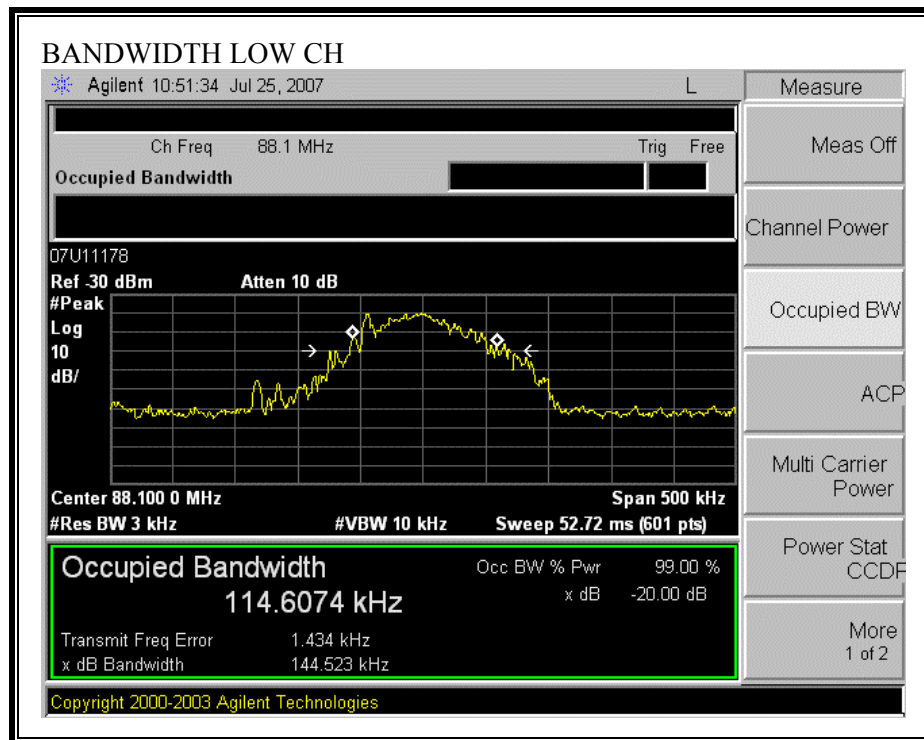
The receive test antenna is connected to a spectrum analyzer. The RBW is set to 3 kHz, VBW is set to 10 kHz. The span is set to 500 kHz.

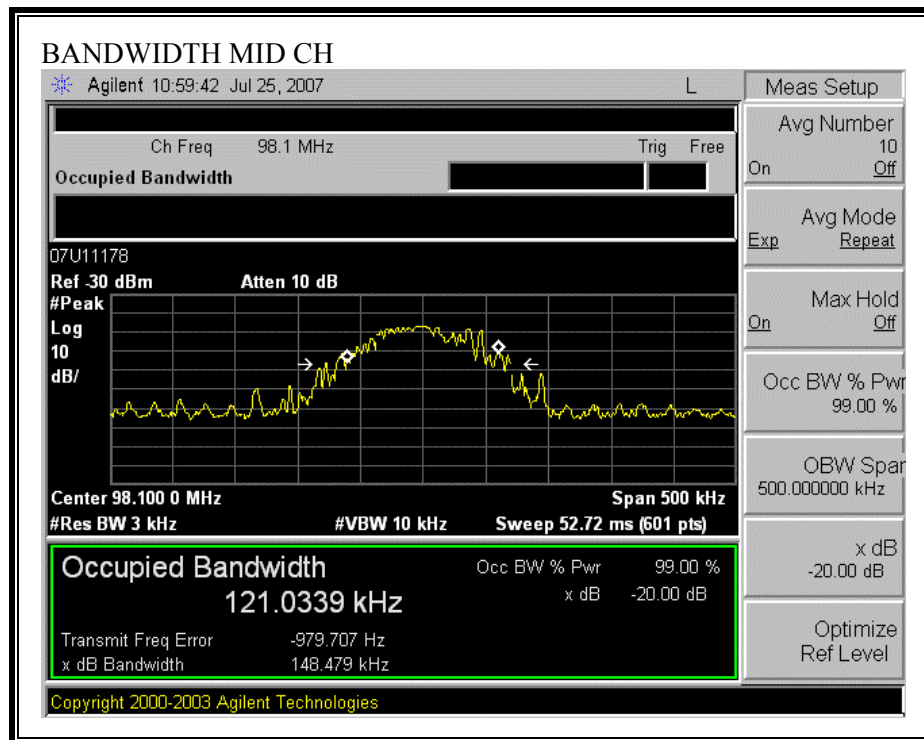
RESULTS

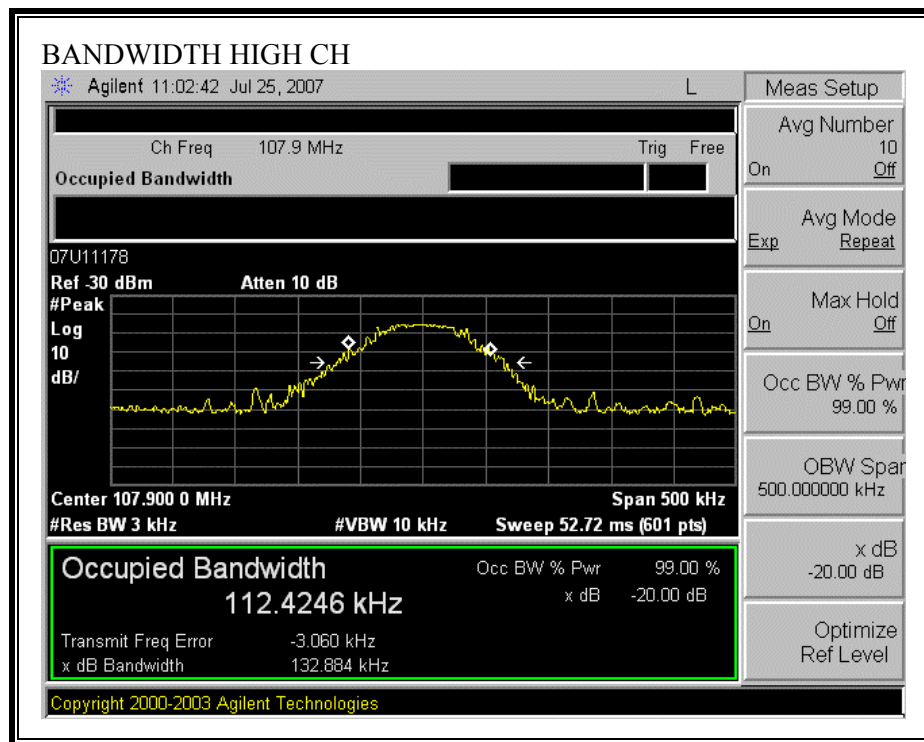
No non-compliance noted:

Channel	Frequency (MHz)	20 dB Bandwidth (kHz)	99% Bandwidth (kHz)
Low	88.1	144.523	114.6074
Middle	98.1	148.479	121.0339
High	107.9	132.884	112.4248

20 dB AND 99% BANDWIDTH







7.2. FUNDAMENTAL FIELD STRENGTH

LIMIT

§15.239 (b)
RSS-210 Issue 7 Clause A2.8

48 dBuV/m Average at 3m distance.
68 dBuV/m Peak at 3m distance

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

The level of the fundamental signal is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions. Three orthogonal orientations of the EUT were investigated to find worst-case for Middle channel and that worst-case orientation was used for Low and High channels.

RBW and VBW for the spectrum analyzer were 300 kHz and 1 MHz respectively for Peak measurement, and they were 300 kHz and 10 Hz respectively as required for Average measurement.

RESULTS

No non-compliance noted:

Channel	Frequency (MHz)	Peak Fund F.S. (dBuV/m)	PK Limit (dBuV/m)	AV Limit (dBuV/m)	PK Margin (dB)	AV Margin (dB)
Low	88.1	45.89	68	48	-22.11	-2.11
Middle	98.1	44.33	68	48	-23.67	-3.67
High	107.9	46.14	68	48	-21.86	-1.86

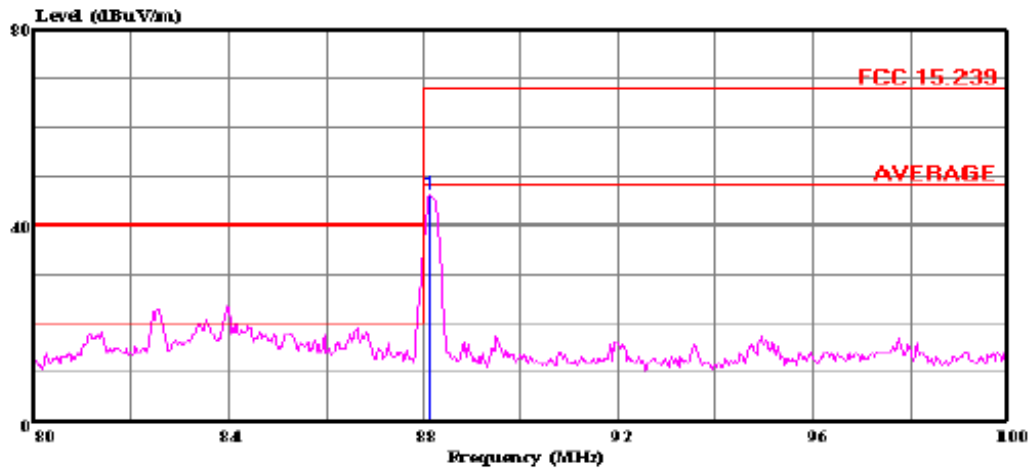
FIELD STRENGTH DATA, LOW CHANNEL, HORIZONTAL



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Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 52 File#: EMI below 1GHz.EMI

Date: 07-25-2007 Time: 14:49:32



Trace: 22

Ref Trace:

Condition: FCC 15.239 HORIZONTAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration: EUT, MP3 Player
Mode: Play music w/ Ice Cube Rap music
Target: FCC 15.239
Tx Low Channel
Pink: Peak

Page: 1

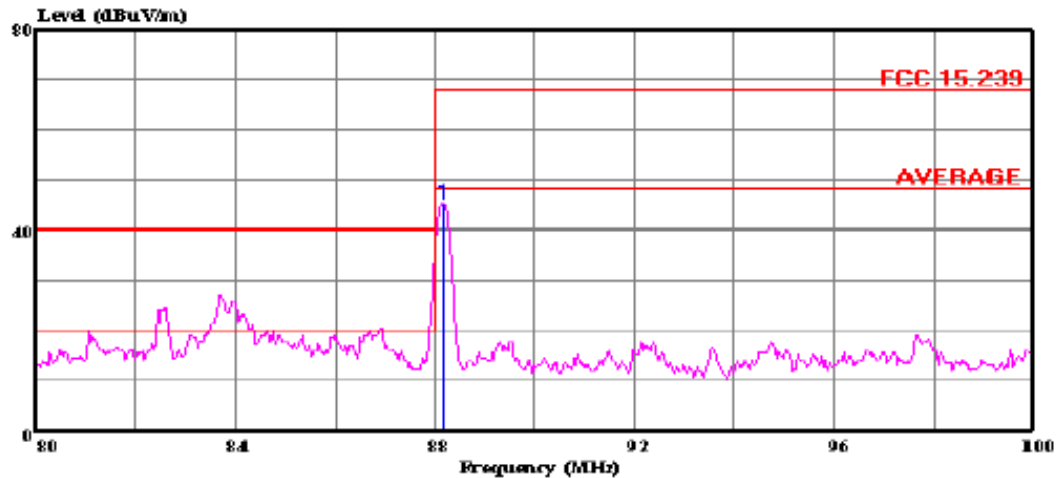
	Read		Limit	Over	
Freq	Level	Factor	Level	Line	Limit Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1 88.140	65.39	-19.50	45.89	48.00	-2.11 Peak use AVG Limit

FIELD STRENGTH DATA, LOW CHANNEL, VERTICAL



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Data#: 54 File#: EMI below 1GHz.EMI
Date: 07-25-2007 Time: 14:36:49



Trace: 18

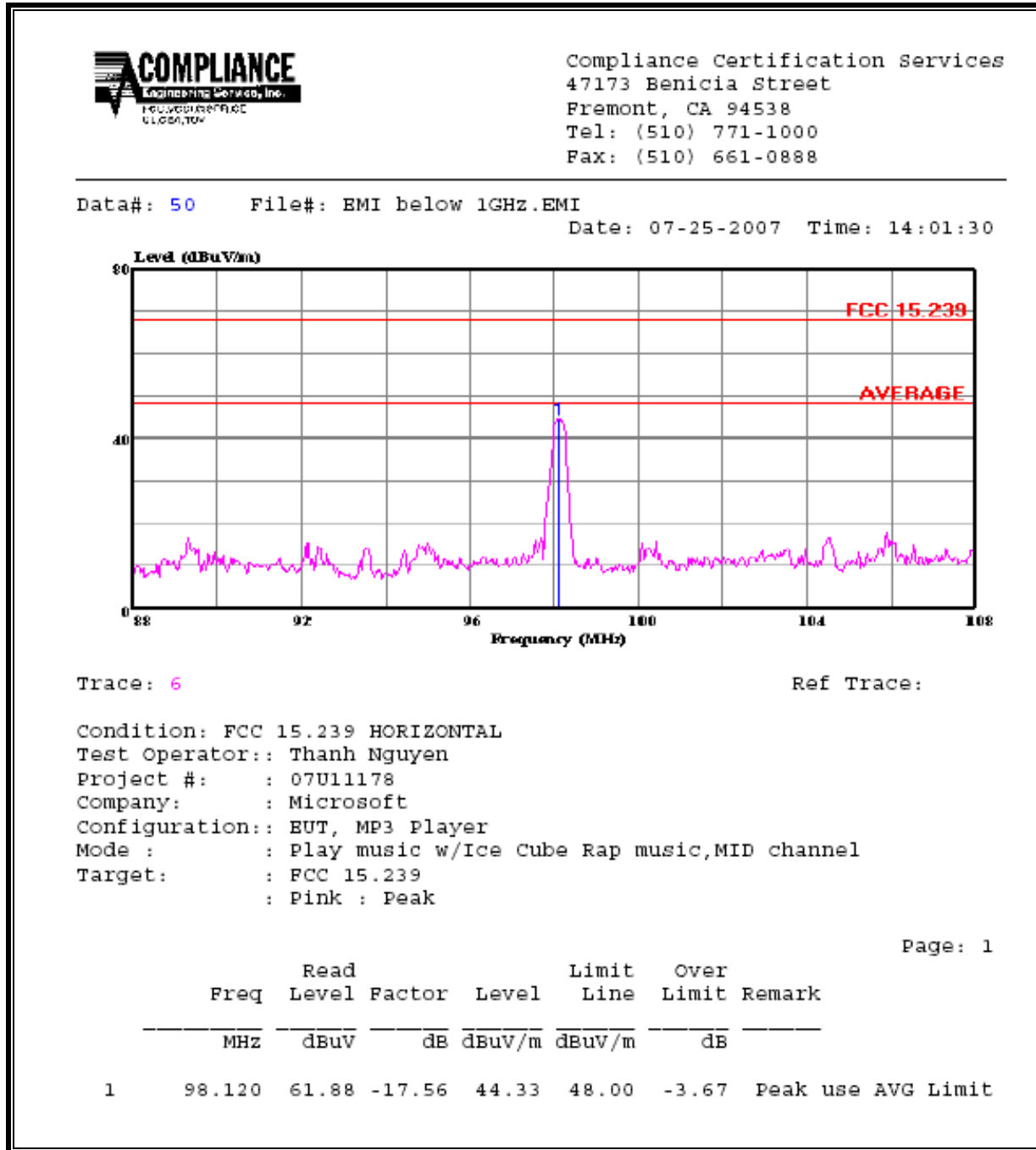
Ref Trace:

Condition: FCC 15.239 VERTICAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration:: EUT, MP3 Player
Mode: Play music w/ Ice Cube Rap music
Target: FCC 15.239
Tx Low Channel
Pink: Peak

Page: 1

	Read		Limit	Over			
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	88.160	64.51	-19.50	45.01	48.00	-2.99	Peak use AVG Limit

FIELD STRENGTH DATA, MID CHANNEL, HORIZONTAL

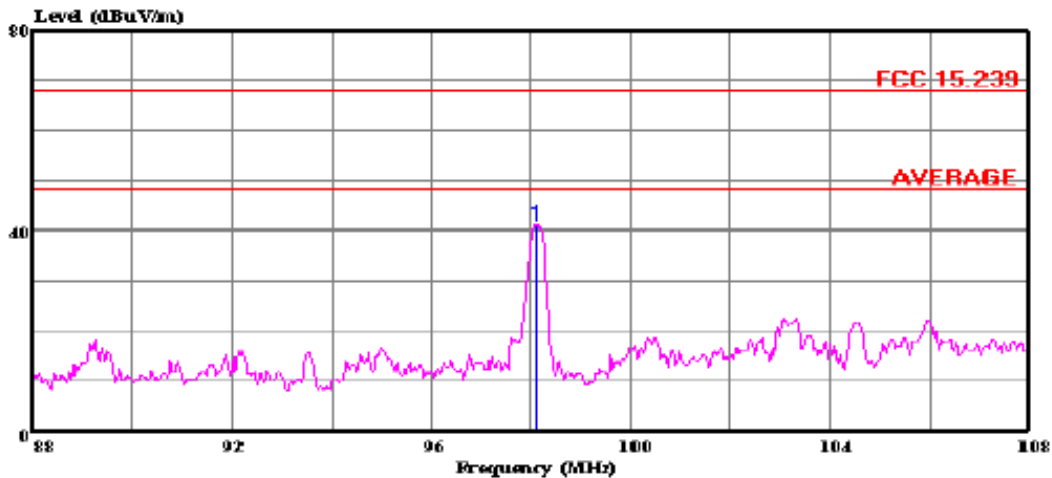


FIELD STRENGTH DATA, MID CHANNEL, VERTICAL



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Data#: 53 File#: EMI below 1GHz.EMI
Date: 07-25-2007 Time: 13:52:46



Trace: 3 Ref Trace:

Condition: FCC 15.239 VERTICAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration: BUT, MP3 Player
Mode: Play music w/ Ice Cube Rap music
Target: FCC 15.239
Pink: Peak

Page: 1

		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	98.100	58.28	-17.57	40.72	48.00	-7.28 Peak use AVG Limit

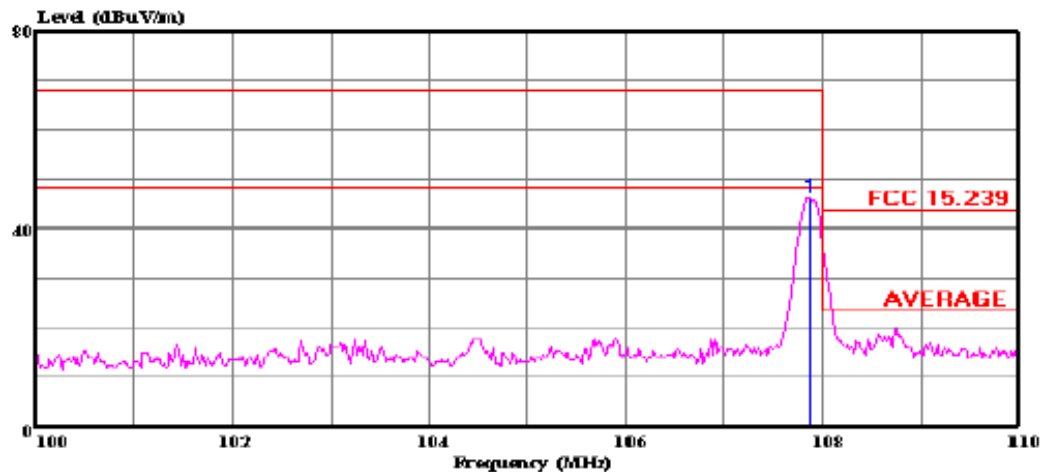
FIELD STRENGTH DATA, HIGH CHANNEL, HORIZONTAL



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Data#: 55 File#: EMI below 1GHz.EMI

Date: 07-25-2007 Time: 14:16:17



Trace: 10

Ref Trace:

Condition: FCC 15.239 HORIZONTAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration:: BUT, MP3 Player
Mode : Play music w/ Ice Cube Rap music
Target: FCC 15.239
Tx High Channel
Pink: Peak

Page: 1

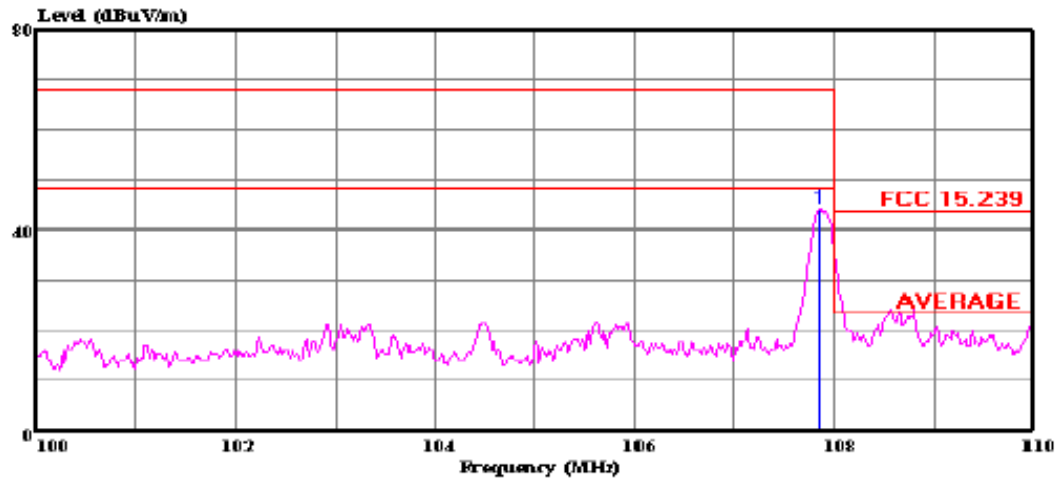
		Read		Limit	Over	
	Freq	Level	Factor	Level	Line	Limit Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	107.880	61.66	-15.52	46.14	48.00	-1.86 Peak use AVG Limit

FIELD STRENGTH DATA, HIGH CHANNEL, VERTICAL



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Data#: 14 File#: EMI below 1GHz.EMI
Date: 07-25-2007 Time: 14:24:21



Trace: 13

Ref Trace:

Condition: FCC 15.239 VERTICAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration:: BUT, MP3 Player
Mode : Play music w/ Ice Cube Rap music
Target: FCC 15.239
Tx High Channel
Pink: Peak

Page: 1

	Read		Limit	Over			
Freq	Level	Factor	Level	Line	Limit		
MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	107.870	59.44	-15.52	43.92	48.00	-4.08	Peak use AVG Limit

7.3. RADIATED SPURIOUS EMISSIONS

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

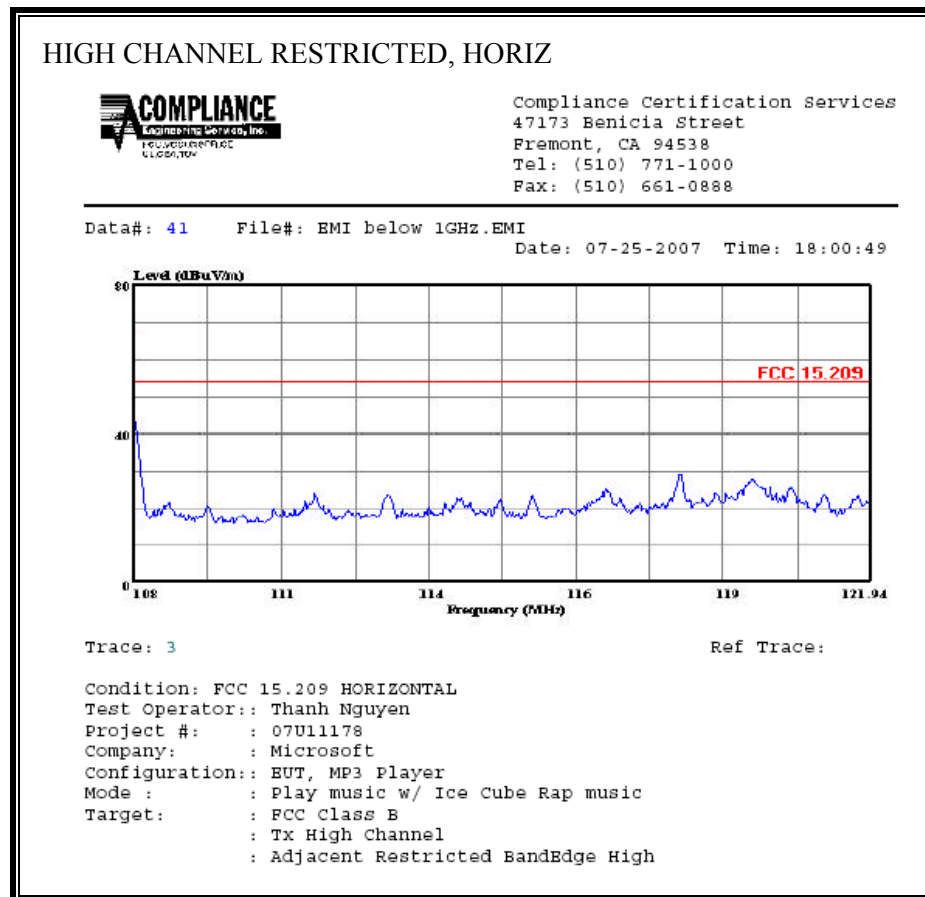
The spectrum from 30 MHz to 2 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 88-108 MHz FM band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

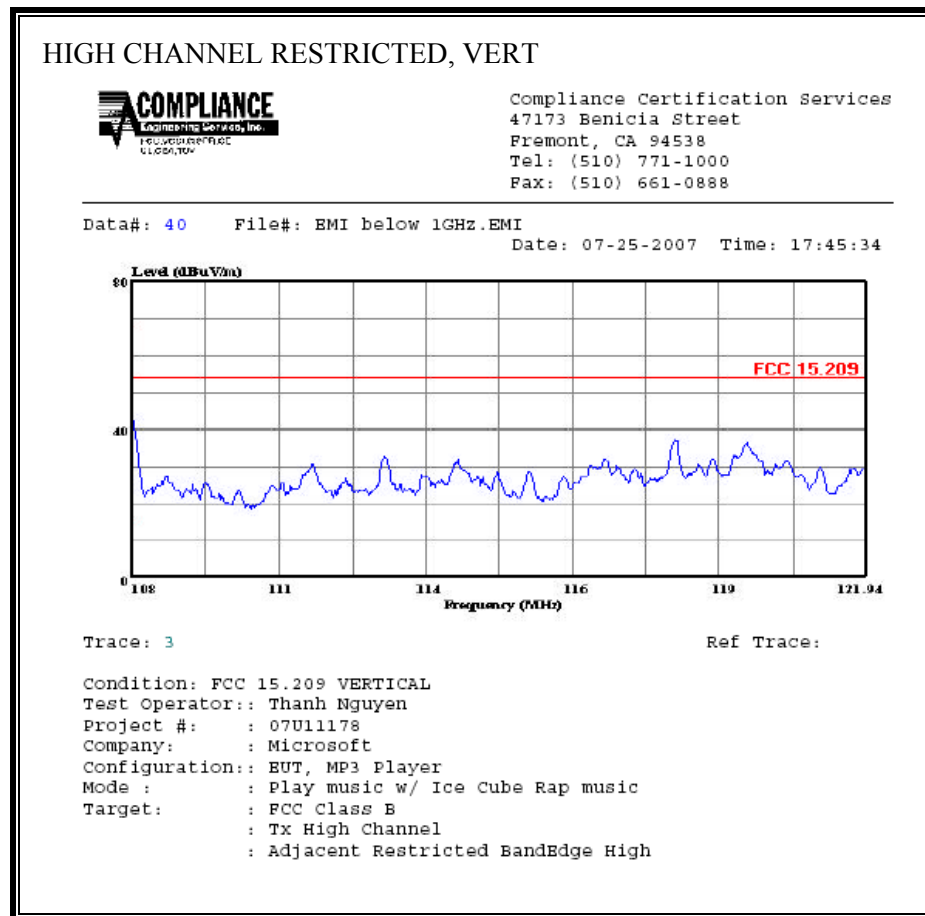
NOTE

The emission in each the SPURIOUS FIELD STRENGTH plots that exceeds the out-of-band spurious limits is due to the fundamental, which has measured with respect to the in-band limit in Section 7.2 above.

RESTRICTED BANDEDGE (HIGH CHANNEL, HORIZONTAL)



RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)



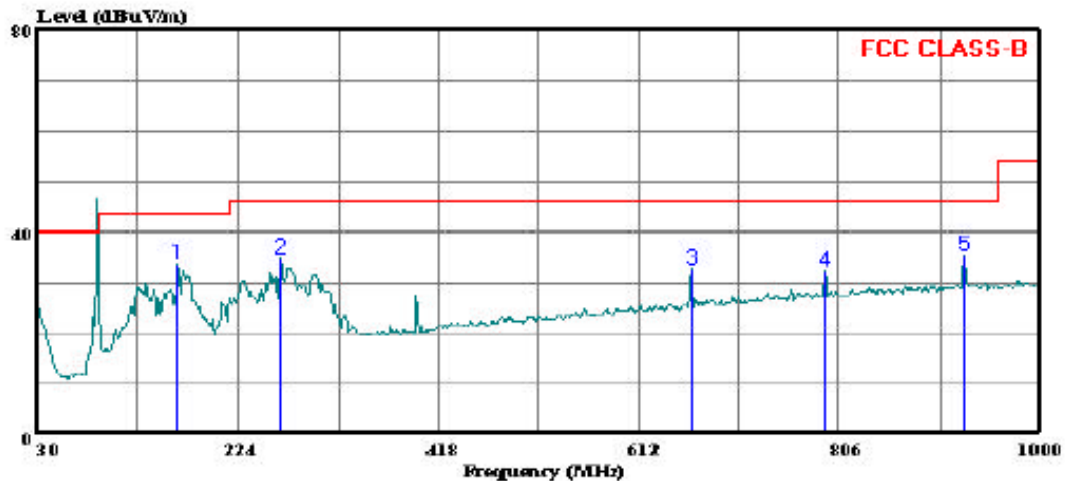
SPURIOUS FIELD STRENGTH DATA, LOW CHANNEL, HORIZONTAL



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Tel: (510) 771-1000
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Data#: 29 File#: EMI below 1GHz.EMI

Date: 07-25-2007 Time: 16:07:17



Trace: 28

Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration:: EUT, MP3 Player
Mode: Play music w/ Ice Cube Rap music
Target: FCC Class B
Tx Low Channel

Page: 1

	Freq	Read		Limit	Over	
	MHz	Level	Factor	Line	Limit	Remark
	MHz	dBuV	dB	dBuV/m	dB	
1	164.830	48.21	-14.40	33.81	43.50	-9.69 Peak
2	264.740	48.72	-13.63	35.09	46.00	-10.91 Peak
3	662.440	37.12	-4.21	32.91	46.00	-13.09 Peak
4	793.390	34.77	-2.16	32.61	46.00	-13.39 Peak
5	926.280	36.67	-0.90	35.77	46.00	-10.23 Peak

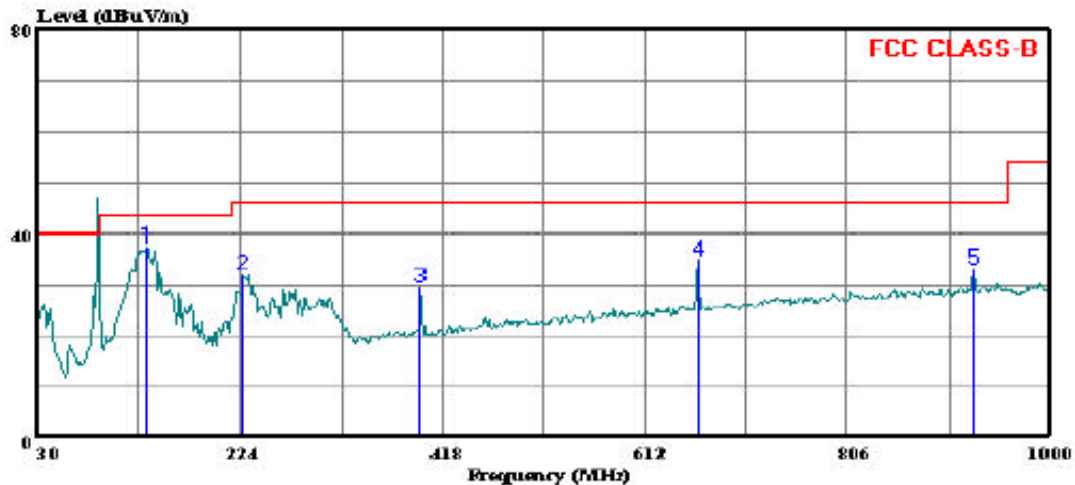
SPURIOUS FIELD STRENGTH DATA, LOW CHANNEL, VERTICAL



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Data#: 31 File#: EMI below 1GHz.EMI

Date: 07-25-2007 Time: 16:15:55



Trace: 30

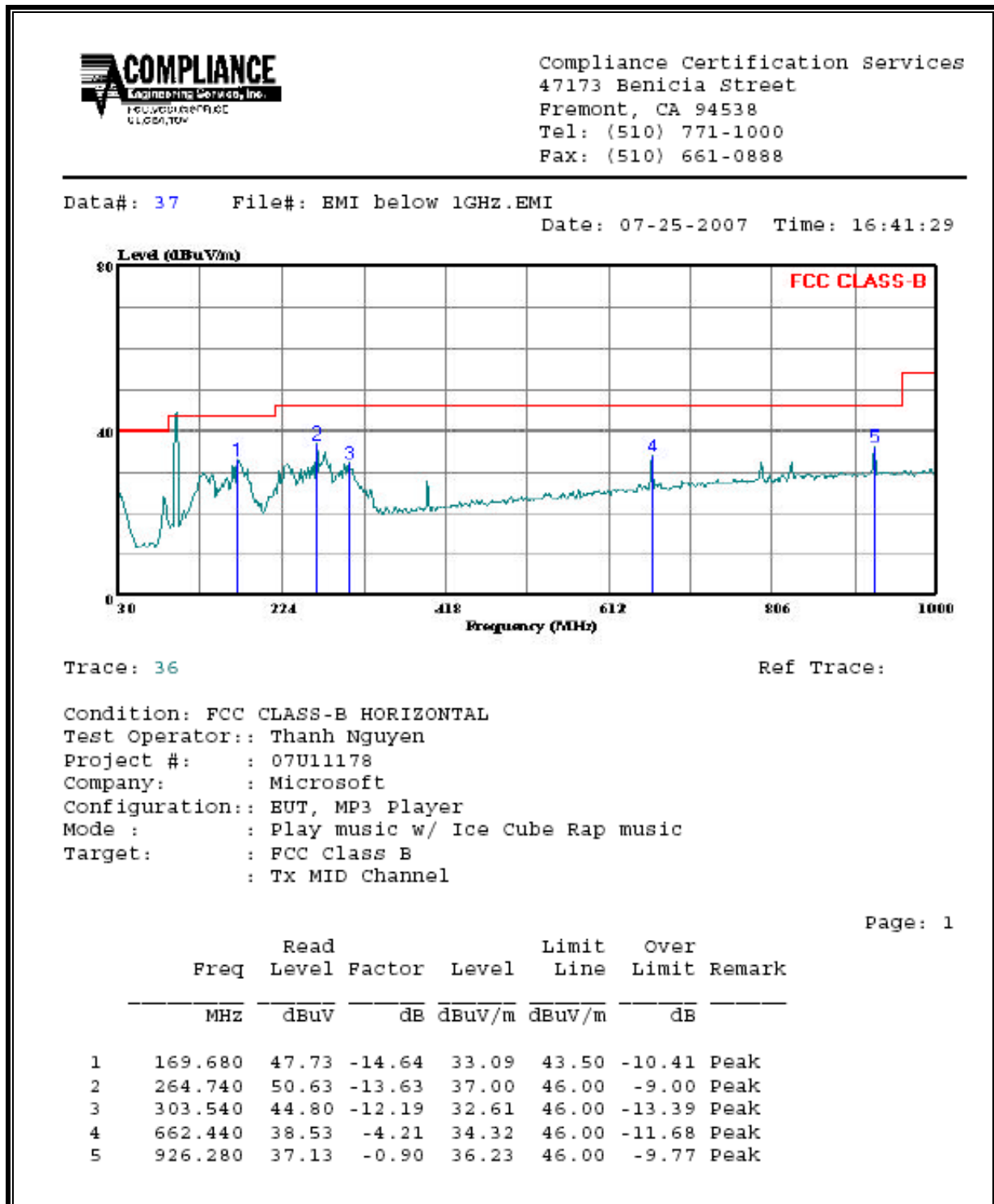
Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration:: EUT, MP3 Player
Mode : Play music w/ Ice Cube Rap music
Target: FCC Class B
Tx Low Channel

Page: 1

	Freq	Read		Limit	Over	
	MHz	Level	Factor	Line	Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	135.730	50.68	-13.17	37.51	43.50	-5.99 Peak
2	227.880	47.22	-14.93	32.29	46.00	-13.71 Peak
3	397.630	39.86	-9.96	29.90	46.00	-16.10 Peak
4	662.440	39.29	-4.21	35.08	46.00	-10.92 Peak
5	926.280	33.99	-0.90	33.09	46.00	-12.91 Peak

SPURIOUS FIELD STRENGTH DATA, MID CHANNEL, HORIZONTAL



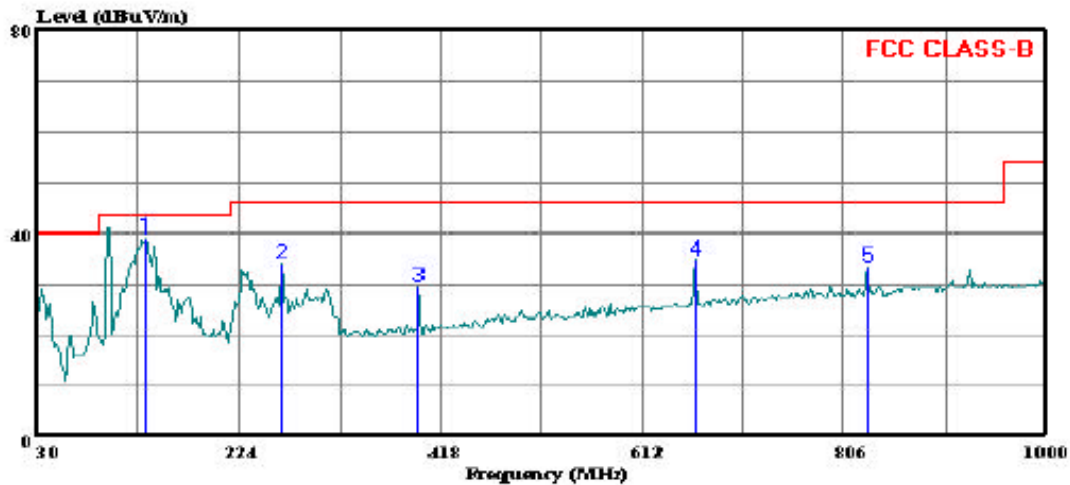
SPURIOUS FIELD STRENGTH DATA, MID CHANNEL, VERTICAL



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Data#: 39 File#: EMI below 1GHz.EMI

Date: 07-25-2007 Time: 16:52:38



Trace: 38

Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration:: EUT, MP3 Player
Mode : Play music w/ Ice Cube Rap music
Target: FCC Class B
Tx MID Channel

Page: 1

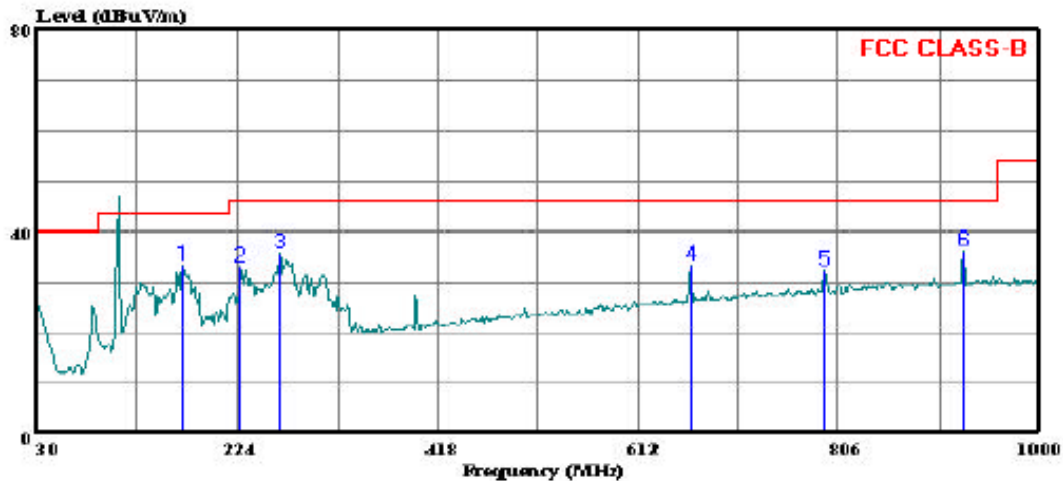
	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	135.730	52.18	-13.17	39.01	43.50	-4.49 Peak
2	264.740	48.01	-13.63	34.38	46.00	-11.62 Peak
3	397.630	39.74	-9.96	29.78	46.00	-16.22 Peak
4	662.440	39.20	-4.21	34.99	46.00	-11.01 Peak
5	827.340	35.38	-1.84	33.54	46.00	-12.46 Peak

SPURIOUS FIELD STRENGTH DATA, HIGH CHANNEL, HORIZONTAL



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Data#: 35 File#: EMI below 1GHz.EMI
Date: 07-25-2007 Time: 16:32:21



Trace: 34

Ref Trace:

Condition: FCC CLASS-B HORIZONTAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration:: BUT, MP3 Player
Mode : Play music w/ Ice Cube Rap music
Target: FCC Class B
Tx High Channel

Page: 1

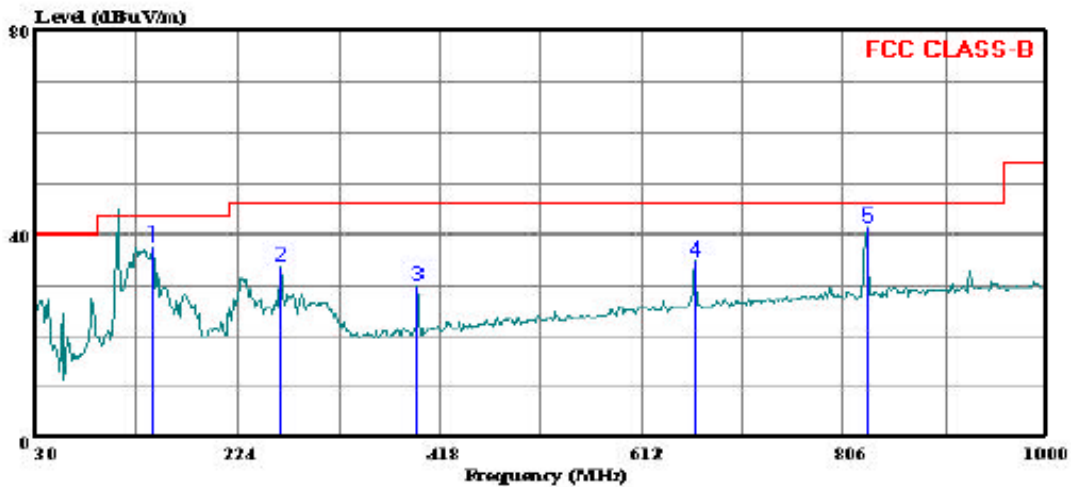
	Freq	Read		Limit	Over	
	MHz	Level	Factor	Line	Limit	Remark
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB
1	169.680	48.29	-14.64	33.65	43.50	-9.85 Peak
2	227.880	48.28	-14.93	33.35	46.00	-12.65 Peak
3	264.740	49.79	-13.63	36.16	46.00	-9.84 Peak
4	662.440	37.70	-4.21	33.49	46.00	-12.51 Peak
5	793.390	34.73	-2.16	32.57	46.00	-13.43 Peak
6	926.280	37.31	-0.90	36.41	46.00	-9.59 Peak

SPURIOUS FIELD STRENGTH DATA, HIGH CHANNEL, VERTICAL



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Data#: 33 File#: EMI below 1GHz.EMI
Date: 07-25-2007 Time: 16:22:26



Trace: 32

Ref Trace:

Condition: FCC CLASS-B VERTICAL
Test Operator:: Thanh Nguyen
Project #: 07U11178
Company: Microsoft
Configuration:: EUT, MP3 Player
Mode : Play music w/ Ice Cube Rap music
Target: FCC Class B
Tx High Channel

Page: 1

	Read			Limit	Over	
Freq	Level	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dBuV/m	dBuV/m	dB	
1	143.490	51.37	-13.48	37.89	43.50	-5.61 Peak
2	264.740	47.47	-13.63	33.84	46.00	-12.16 Peak
3	397.630	40.00	-9.96	30.04	46.00	-15.96 Peak
4	662.440	39.27	-4.21	35.06	46.00	-10.94 Peak
5	827.340	43.04	-1.84	41.20	46.00	-4.80 Peak

HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHZ

High Frequency Measurement																
Compliance Certification Services, Morgan Hill Open Field Site																
Company:		Microsoft Corporation														
Project #:		07U11178														
Date:		7/25/07														
Test Engineer:		Thanh Nguyen														
Configuration:		EUT and MP3 Player														
Mode: Transmit		High channel, Play music with Ice Cube Rap song														
Test Equipment:																
Horn 1-18GHz			Pre-amplifier 1-26GHz			Pre-amplifier 26-40GHz			Horn > 18GHz			Limit				
T60; S/N: 2238 @3m			T145 Agilent 3008A005t									FCC 15.209				
Hi Frequency Cables																
2 foot cable			3 foot cable			12 foot cable			HPF			Reject Filter			Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz, VBW=10Hz	
						Gordon 203134001										
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)	
High CH 107.9MHz																
1.056	3.0	47.2	42.7	25.6	3.1	-36.1	0.0	0.0	39.8	35.3	74	54	-34.2	-18.7	H	
1.079	3.0	44.5	31.1	25.6	3.1	-36.1	0.0	0.0	37.1	23.7	74	54	-36.9	-30.3	H	
1.056	3.0	46.3	37.4	25.6	3.1	-36.1	0.0	0.0	38.8	29.9	74	54	-35.2	-24.1	V	
1.079	3.0	44.4	31.2	25.6	3.1	-36.1	0.0	0.0	37.0	23.8	74	54	-37.0	-30.2	V	
															V	
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															V	
f		Measurement Frequency				Amp		Preamp Gain				Avg Lim		Average Field Strength Limit		
Dist		Distance to Antenna				D Corr		Distance Correct to 3 meters				Pk Lim		Peak Field Strength Limit		
Read		Analyzer Reading				Avg		Average Field Strength @ 3 m				Avg Mar		Margin vs. Average Limit		
AF		Antenna Factor				Peak		Calculated Peak Field Strength				Pk Mar		Margin vs. Peak Limit		
CL		Cable Loss				HPF		High Pass Filter								

Note: No significant differences in the emissions above 1 GHz were observed as a function of the transmitter channel. The worst-case is shown above.