

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
	Test No: T5276	Test Report	Page: 1 of 41



dB Technology

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EMC
Testing

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Training

23, Headington Drive,
Cambridge.
CB1 9HE
Tel : 01954 251974 (test site)
or : 01223 241140 (accounts)
Fax : 01954 251907
web : www.dbtechnology.co.uk
email: mail@dbtechnology.co.uk

REPORT ON ELECTROMAGNETIC COMPATIBILITY TESTS

Performed at:
TWENTY PENCE TEST SITE

Twenty Pence Road,
Cottenham,
Cambridge
U.K.
CB24 8PS

on

Cyrus Audio Ltd

System 1 (6dac / 8dac + PSXR)

dated

20th March 2014

Document History

Issue	Date	Affected page(s)	Description of modifications	Revised by	Approved by
1	27/03/14		Initial release		

Based on report template:
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	Issue No: 1		
	Test No: T5276	Test Report	Page: 2 of 41

Equipment Under Test (EUT):

System 1 (6dac / 8dac + PSXR)

Test Commissioned by:

Cyrus Audio Ltd
 Spitfire Close
 Ermine Business Park
 Huntingdon
 Cambridgeshire
 PE29 6XY

Representative:

Ceri Williamson

Test Started:

12th February 2014

Test Completed:

26th February 2014

Test Engineer:

Peter Barlow

Date of Report:

20th March 2014

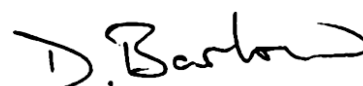
Written by: Peter Barlow

Checked by: Derek Barlow

Signature:



Signature:



Date: 20th March 2014

Date: 27th March 2014

dB Technology can only report on the specific unit(s) tested at its site. The responsibility for extrapolating this data to a product line lies solely with the manufacturer.

Test Standards Applied

**CFR 47
Class B**

*Code of Federal Regulations: Pt 15 Subpart B- Radio Frequency Devices -
Unintentional Radiators*

Measurements performed at dB Technology FCC Listed test facility, registration No: 90528

Emissions Test Results Summary

CFR 47

PASS

Test	Port	Method	Limit	PASS/FAIL	Notes
Conducted Emissions	ac power	ANSI C63.4:2003	FCC(B) = CISPR22(B)	PASS	
Radiated Emissions		ANSI C63.4:2003	FCC(B) = FCC_B	PASS	

specs_fccv100412

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1 EUT Details

1.1 General

The EUTs were the Cyrus 8dac and 6dac units incorporating a high power integrated amplifier and advanced digital to analogue converter which may be connected to a PC via a USB 2.0 connection. The units are identical in circuitry with the exception that the 8dac has a larger linear transformer for its internal power supply and also an extra connector to enable the unit to be powered by an external regulated power supply (PSXR). They included microprocessor circuitry with a maximum frequency of 480MHz requiring emissions tests to be performed up to 2GHz.

The purpose of this report is to cover the USB operation of the unit(s) for Certification as a computer peripheral. Operation in other modes is covered in our Verification Report R3320.

Testing was performed with the system connected as per Figure 1 diagram. The 6dac cannot operate with the PSXR, so this was not included in the set-up for the 6dac.

Details of the EUT and associated peripherals used during the tests are listed below. Figure 1 shows the interconnections between the EUT and peripherals.

Item	Manufacturer	Model	Description	Serial No:	Notes
1	Cyrus Audio	8dac	USB DAC	AW1DB0512	EUT
2	Cyrus Audio	6dac	USB DAC	BN1EB0100	EUT
3	Cyrus Audio	CDT	CD Player	Proto 1	
4	Cyrus Audio	PSXR	8dac PSU	HNBB0151	EUT
5	Cyrus Audio	CLS50	Speakers	CLS50-M0196	
6	Apple Inc California	Mac Book Pro A1278	Laptop PC	C02HV69TDY3 FCC ID: QDS-BRCM1055 IC: 4324A-BRCM1055	
7	Delta Electronics Ltd	ADP-60ADT	Laptop PSU	N/A	
8	Netgear	FS605v3	5 port switch	1FM1853S06387	
9	Netgear	DV-751AUK	AC-DC adapter	330-10148-01	

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1.2 Details of Interconnecting Cables

The following table lists details of the cables connected to the EUT.

From	To	Cable Type	Length	Notes
8dac (PSXR)	PSXR	Cyrus integral cable	0.5m	
8dac/6dac (Headphones)	Senizer HD600 headphones	Integral cable	3m	
8dac/6dac (Speaker L&R)	CLS50 speakers	Cyrus Speaker Cable	1.25m	
8dac/6dac (MCBUS In&Out)	CDT (MCBUS)	Cyrus std Phono	0.5m	
8dac/6dac (Pre-out1 L&R)	floating	Cyrus std Phono	1.2m	
8dac/6dac (Pre-out2 L&R)	floating	Cyrus std Phono	1.2m	
8dac/6dac (Zone2 out L&R)	floating	Cyrus std Phono	1.2m	
8dac/6dac (In 1 L&R)	floating	Cyrus std Phono	1m	
8dac/6dac (In 2 L&R)	floating	Cyrus std Phono	2m	
8dac/6dac (In 3 L&R)	floating	Phono to mini din	1.5m	
8dac/6dac (In 4 L&R)	floating	Cyrus std Phono	0.5	
8dac/6dac (In 5 L&R)	floating	Cyrus std Phono	1.2m	
8dac/6dac (In 6 L&R)	floating	Cyrus std Phono	1.2m	
8dac/6dac (In 7)	CDT (Optical)	Fiber optic	N/A	
8dac/6dac (In 8)	Optical 2 not connected	N/A	N/A	
8dac/6dac (In 9)	CDT (SPDIFF out)	Cyrus std Phono	1m	
8dac/6dac (In 10)	floating	Cyrus std Phono	1m	
8dac/6dac (In 11 USB)	Laptop PC	USB 2.0 cable	2m	
8dac/6dac (AC Power)	115V ac power	Cyrus Std mains	2m	
PSXR (DC)	8dac (PSXR)	Cyrus integral cable	0.5m	
PSXR (AC Power)	115V ac power	Cyrus Std mains	2m	
CDT (MCBUS In&Out)	8dac/6dac (MCBUS In&Out)	Cyrus std Phono	0.5m	
CDT (SPDIFF Out)	8dac/6dac (In 9)	Cyrus std Phono	1m	
CDT (Digital Optical)	8dac/6dac (In 7)	Fiber optic	N/A	
CDT (AC Power)	115V ac power	Cyrus Std mains	2m	

1.3 Modifications to EUT and Peripherals

Details of any modifications that were required to achieve compliance are listed below. The modification numbers are referred to in the results sections as appropriate.

Mod No:	Details	Implemented for
0	No modifications. EUTs tested as received.	

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1.4 EUT Operating Modes

The EUT was tested in the following operating mode or modes. Generally, operating modes are chosen that will exercise the functions of the EUT as fully as possible and in a manner likely to produce maximum emission levels or susceptibility. Individual test result sheets reference the operating mode of the EUT.

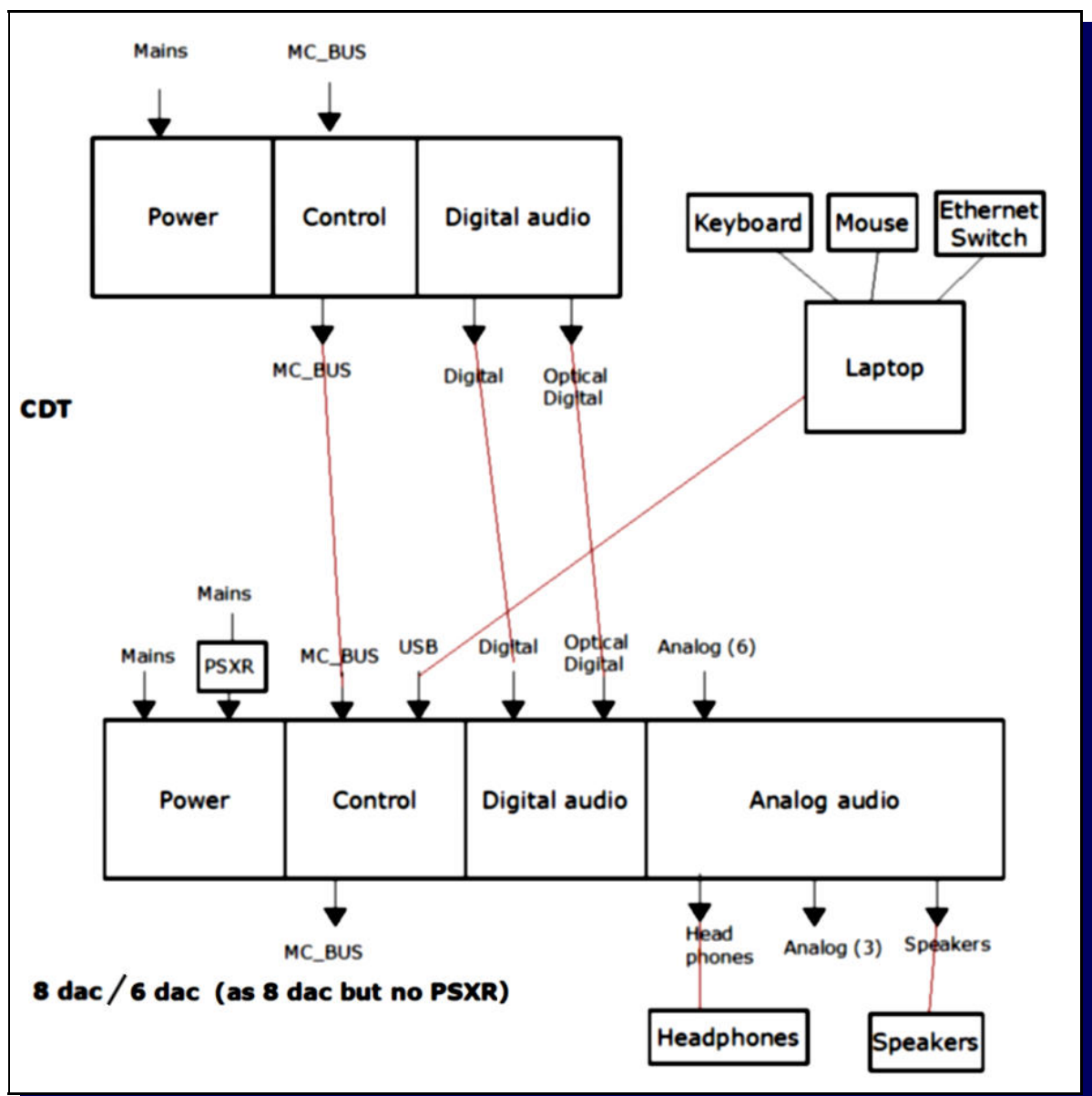
Operating Mode	Details
1	8dac/6dac with USB Source from PC.

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
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Figure 1 General Arrangement of EUT and Peripherals

The 8dac and the 6dac could be connected to a domestic PC and so to test this at dB Technology it is necessary to go through the certification route. The 6dac and the 8dac are considered sufficiently similar to be tested under one project with only a subset of prescans necessary on the 6dac).

As a peripheral to a computer the FCC “minimum” set up is required. In addition, a device such as a CD player is needed to exercise the digital inputs. The CDT was used as a representative input device.

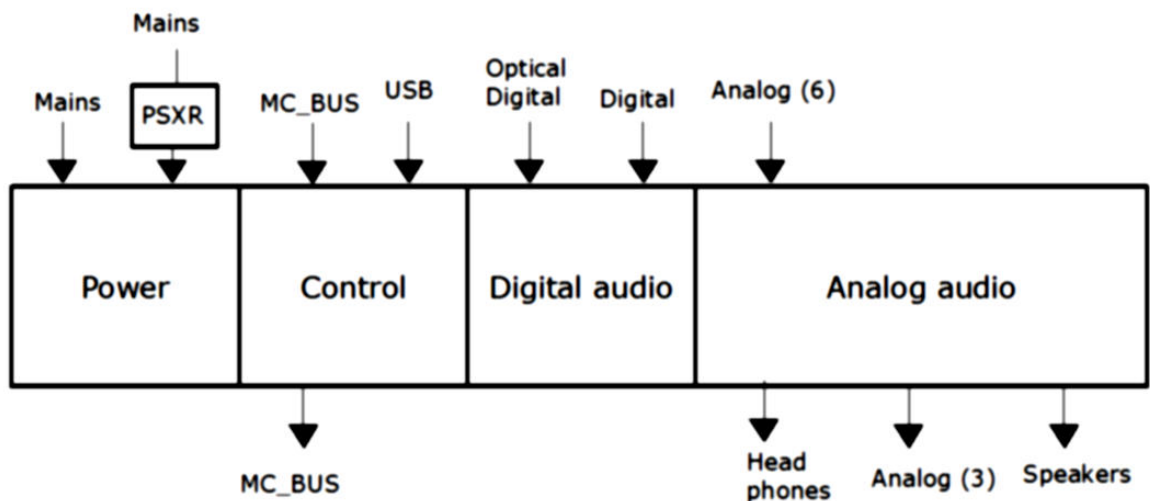


All other ports to be connected to floating cables.

NOTE: The PSXR option is not available for the 6 dac, so this was tested only with the direct mains input.

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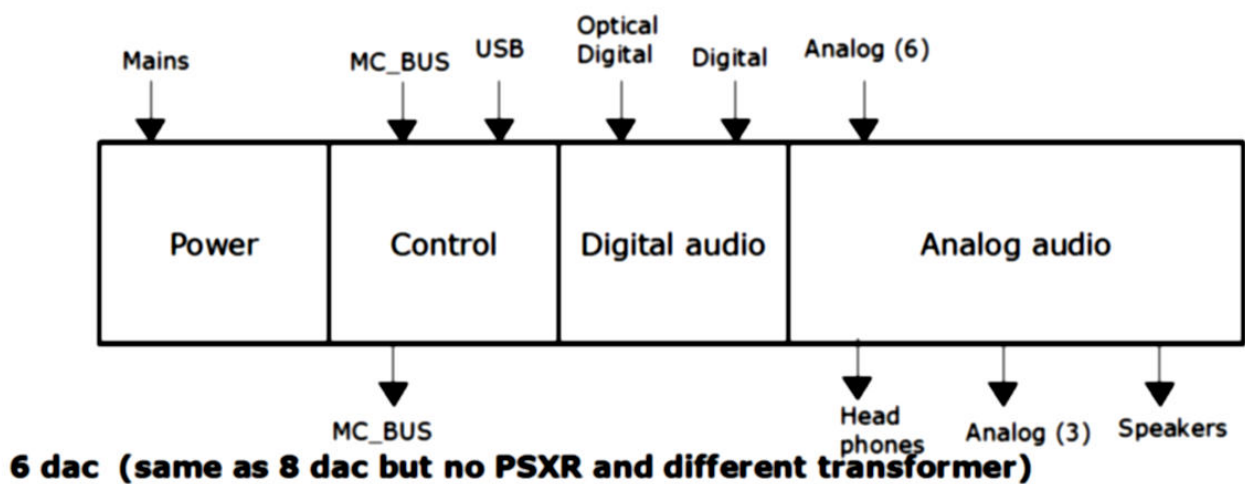
Photograph 1 8dac



8 dac

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Photograph 2 6dac



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Photograph 3 PSXR

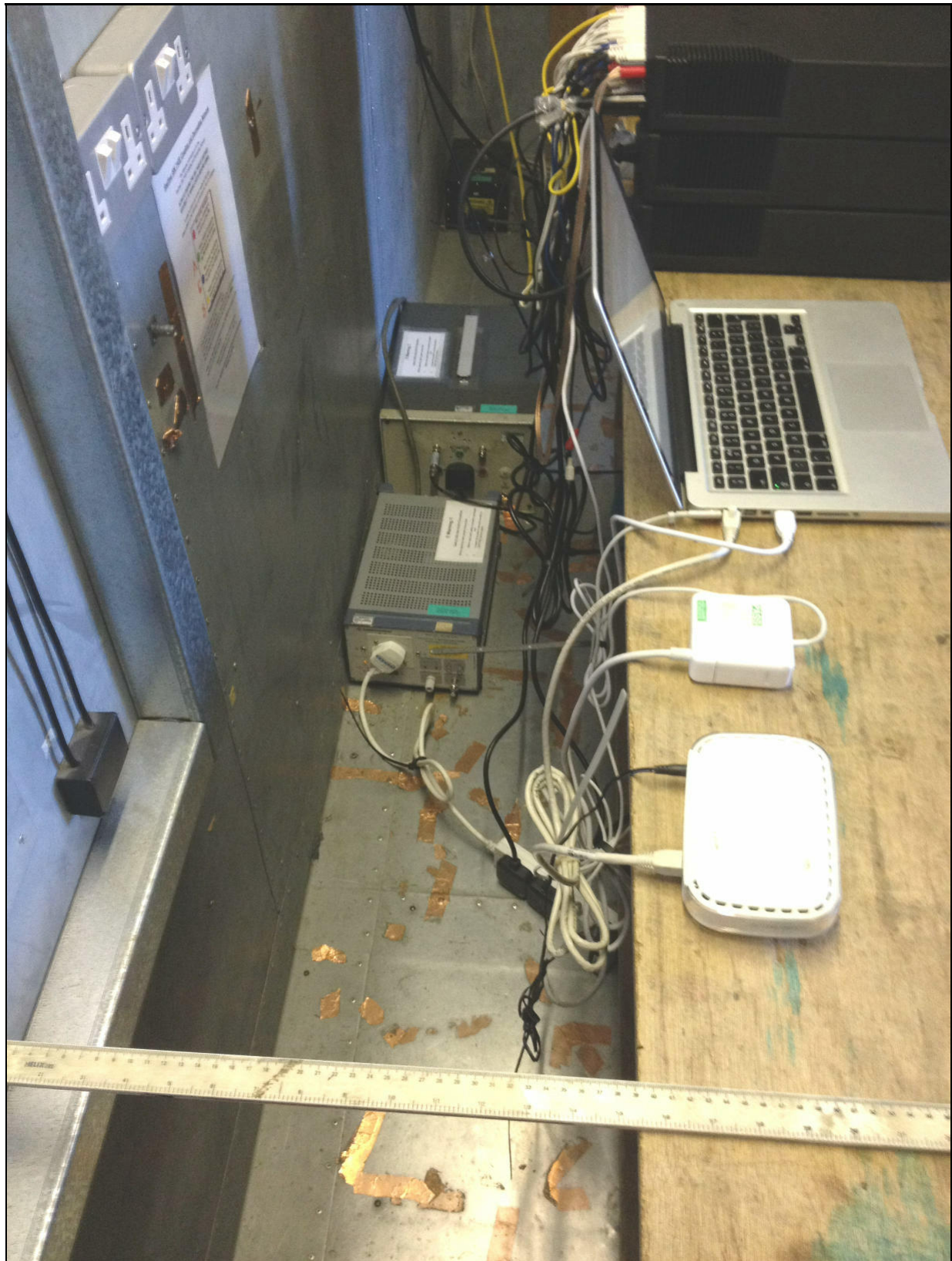


Photograph 4 Conducted Emissions - 8dac - USB Source



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Photograph 5 Conducted Emissions - 8dac - USB Source



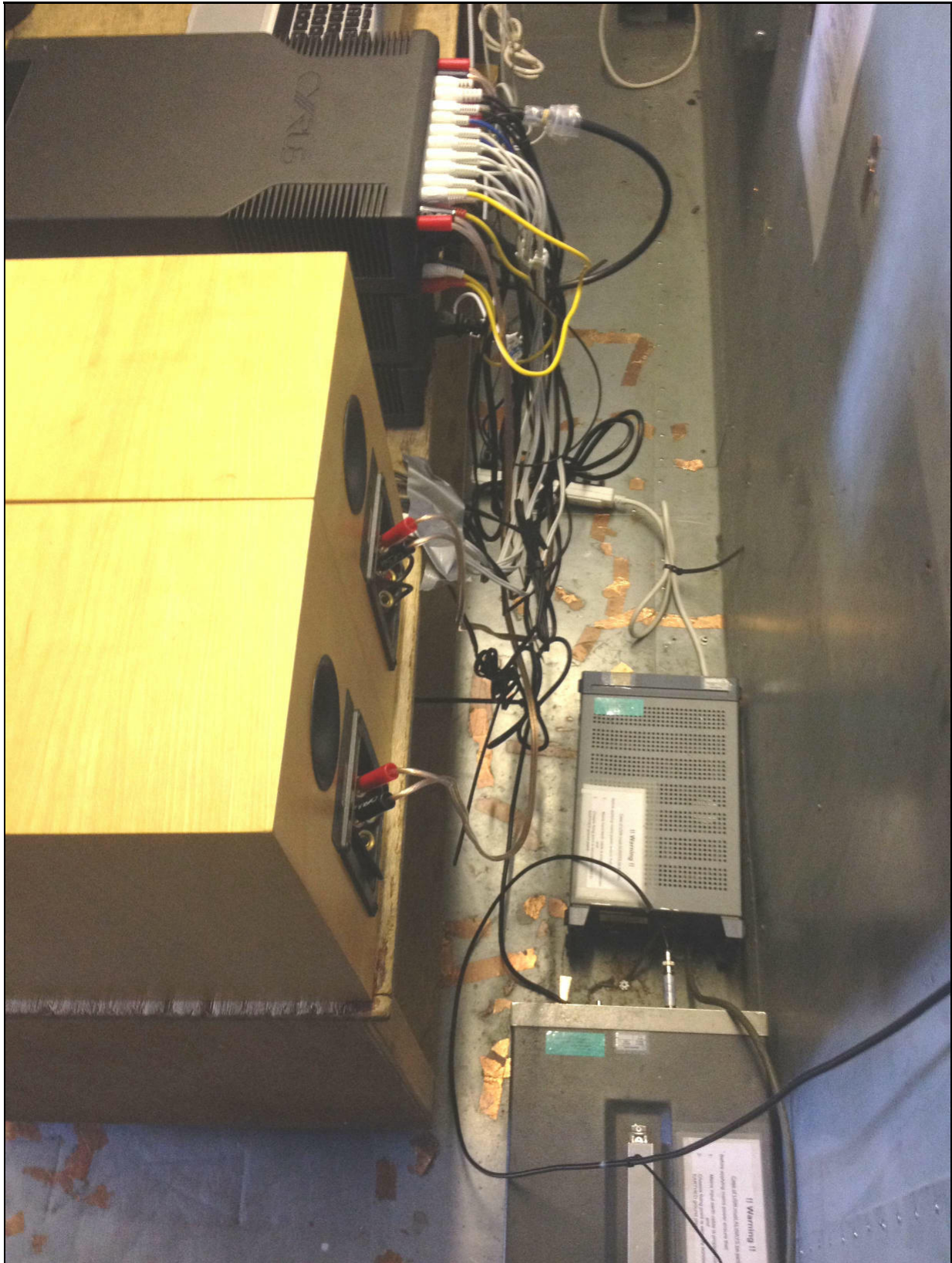
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Photograph 6 Conducted Emissions - 6dac - USB Source



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Photograph 7 Conducted Emissions - 6dac - USB Source



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Photograph 8 Conducted Emissions - 6dac - USB Source

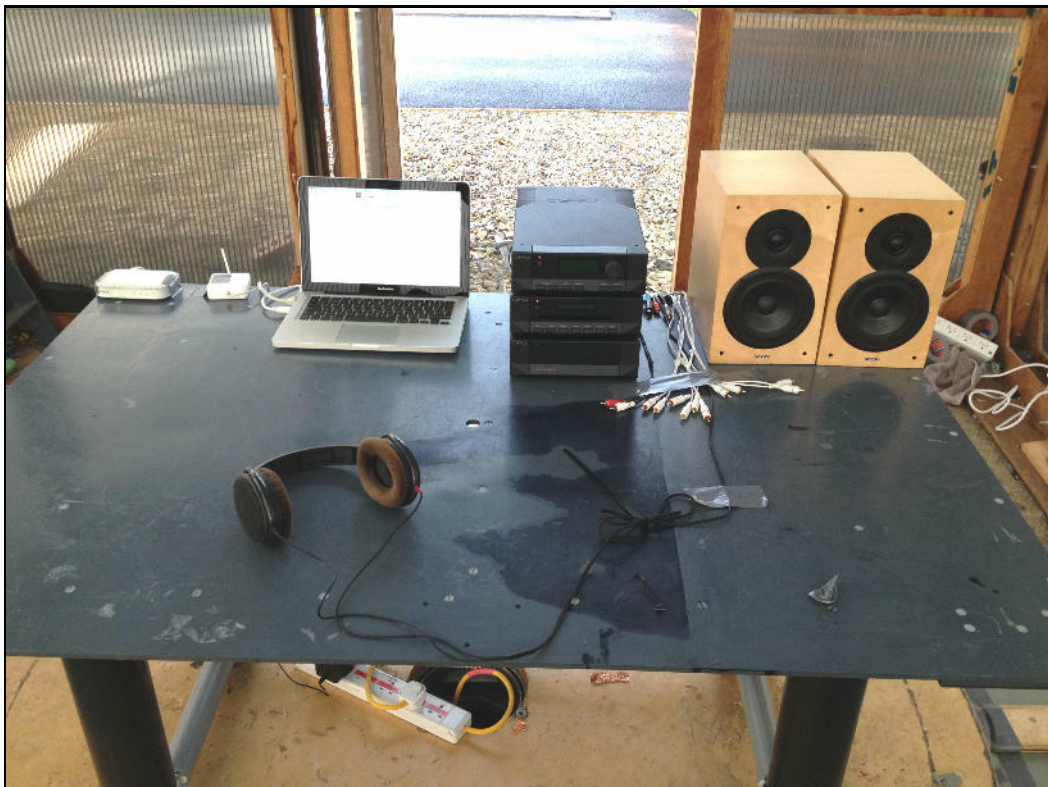


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Photograph 9 Radiated Emissions - 8dac - USB Source



Photograph 10 Radiated Emissions - 8dac - USB Source



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Photograph 11 Radiated Emissions - 6dac - USB Source



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2 Test Equipment

The test equipment used during the tests was one or more of the items listed below. Individual test result sheets indicate which items were used.

Ref No:	Details	Serial Number	Cal Date	Cal Interval
A12	Chase Bilog CBL6111A	1012	28/10/2013	1 year
A15	Chase X-wing Bilog CBL6140 20MHz-2GHz	1047	28/10/2013	1 year
A23	EMCO 3115 DR Guide (1-18GHz)	9507-4525	28/10/2013	1 year
L1	EMCO 3825/2 LISN	1358	12/03/2013	1 year
L2	R&S ESH3-Z5 LISN	843862/009	13/03/2013	1 year
R10	Narda PMM 9010 Receiver (10Hz-30MHz)	595WX11003	12/02/2014	1 year
R4	R&S ESVS10	843744/002	13/12/2013	1 year
R7	R&S ESVD	841729/003	10/12/2013	1 year
R8	Agilent E7405A Spectrum Analyser	MY44212494	24/09/2013	1 year

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3 Test Methods

3.1 Conducted Emissions - ac power

This section describes the general method of performing this test. The specific method used and any deviations from this general method are listed in the appropriate results section.

Bench top EUTs and peripheral equipment are normally placed on a 0.8m high non-conducting bench, positioned 0.4m from one of the metallic walls of a screened room. Floor standing EUTs are normally placed 0.1m above the metallic floor of the screened room. Mains leads are bundled so as not to exceed 1m.

The EUT is powered using a 50ohm/50uH Line Impedance Stabilisation Network (LISN). Peripherals are powered using a second a 50ohm/50uH LISN. These LISNs are bonded to the screened room floor.

With the correct supply voltage applied to the EUT scans are performed on both the live and neutral line outputs of the LISN using quasi-peak detection over the specified frequency range. The results of these scans are shown in the plots section at the end of the report.

Significant emissions identified by the scans are measured and the results tabulated. The table of results is shown in the conducted emissions results section.

3.2 Radiated Emissions

This section describes the general method of performing this test. The specific method used and any deviations from this general method are listed in the appropriate results section.

Initial scans are performed in a semi-anechoic screened room at a distance of 3m. Scans are performed over the frequency range specified in the test standard with the antenna both horizontally and vertically polarised. During these scans the EUT and peripherals are rotated through 360°. Bench top EUTs are placed on a non-conducting bench at a height of 0.8m above the ground plane. Floor standing EUTs are placed 0.1m above the ground plane. The results of the scans are shown in the plots included at the end of the report.

Significant emissions identified by the scans are measured on an open area test site (O.A.T.S) at the appropriate test distance using a CISPR16 quasi-peak receiver. Maximised readings are obtained by rotating the EUT through 360° and adjusting the height of the antenna from 1m to 4m. Measurements are made with the antenna both horizontally and vertically polarised and the results tabulated.

4 Test Results

The following sections contain tabulated test results. Plots of various scans are included at the back of this section.

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4.1 Conducted Emissions (Power) - 8dac - USB Source - Live Line

Factor Set 1: L1_13A AB002_CBL005_CBL039_12A - -
Factor Set 2: - - - -
Factor Set 3: - - - -
Test Equipment: R10 L1 L2

Conducted Emissions (Power)

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 26/02/2014					Test Eng: Peter Barlow								
Ports: ac power													
Test: ANSI C63.4:2003					using limits of FCC(B)				=CISPR22(B)				
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Line (L/N)	Fact Set	Freq. MHz	Det qp/av	Rec. Level dBuV	Corr'n Factor dB	Total Level dBuV	Limit CISPR22(B) dBuV	Margin CISPR22(B) dB	Notes	
1	1	0	L	1	0.165	qp	42.2	10.0	52.2	65.2	13.1	115V 8dac USB	
1	1	0	L	1	0.165	av	27.3	10.0	37.3	55.2	17.9	115V 8dac USB	
1	1	0	L	1	0.215	qp	34.1	10.0	44.0	63.0	19.0	115V 8dac USB	
1	1	0	L	1	0.215	av	23.3	10.0	33.2	53.0	19.8	115V 8dac USB	
1	1	0	L	1	0.645	qp	25.2	10.0	35.1	56.0	20.9	115V 8dac USB	
1	1	0	L	1	0.645	av	20.3	10.0	30.2	46.0	15.8	115V 8dac USB	
1	1	0	L	1	0.690	qp	28.3	10.0	38.2	56.0	17.8	115V 8dac USB	
1	1	0	L	1	0.690	av	22.7	10.0	32.7	46.0	13.3	115V 8dac USB	
1	1	0	L	1	8.575	qp	33.6	10.1	43.7	60.0	16.3	115V 8dac USB	
1	1	0	L	1	8.575	av	27.0	10.1	37.1	50.0	12.9	115V 8dac USB	
1	1	0	L	1	8.985	qp	33.0	10.1	43.1	60.0	16.9	115V 8dac USB	
1	1	0	L	1	8.985	av	26.9	10.1	37.1	50.0	12.9	115V 8dac USB	
Results										Minimum Margin PASS/FAIL		12.9 dB PASS	
Notes		Comments and Observations											
Results of scans shown in plot 1. 8dac live line, USB mode, 115V.													

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4.2 Conducted Emissions (Power) - 8dac - USB Source - Neutral Line

Factor Set 1: L1_13A AB002_CBL005_CBL039_12A - -
Factor Set 2: - - - -
Factor Set 3: - - - -
Test Equipment: R10 L1 L2

Conducted Emissions (Power)

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 26/02/2014					Test Eng: Peter Barlow								
Ports: ac power													
Test: ANSI C63.4:2003					using limits of FCC(B)				=CISPR22(B)				
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Line (L/N)	Fact Set	Freq. MHz	Det qp/av	Rec. Level dBuV	Corr'n Factor dB	Total Level dBuV	Limit CISPR22(B) dBuV	Margin CISPR22(B) dB	Notes	
2	1	0	N	1	0.165	qp	42.7	10.0	52.7	65.2	12.6	115V 8dac USB	
2	1	0	N	1	0.165	av	35.4	10.0	45.3	55.2	9.9	115V 8dac USB	
2	1	0	N	1	0.215	qp	36.7	10.0	46.6	63.0	16.4	115V 8dac USB	
2	1	0	N	1	0.215	av	32.2	10.0	42.1	53.0	10.9	115V 8dac USB	
2	1	0	N	1	0.640	qp	33.1	10.0	43.1	56.0	12.9	115V 8dac USB	
2	1	0	N	1	0.640	av	27.9	10.0	37.8	46.0	8.2	115V 8dac USB	
2	1	0	N	1	0.685	qp	35.3	10.0	45.3	56.0	10.7	115V 8dac USB	
2	1	0	N	1	0.685	av	30.1	10.0	40.0	46.0	6.0	115V 8dac USB	
2	1	0	N	1	8.580	qp	30.1	10.1	40.2	60.0	19.8	115V 8dac USB	
2	1	0	N	1	8.580	av	23.7	10.1	33.8	50.0	16.2	115V 8dac USB	
2	1	0	N	1	8.680	qp	29.9	10.1	40.0	60.0	20.0	115V 8dac USB	
2	1	0	N	1	8.680	av	24.0	10.1	34.1	50.0	15.9	115V 8dac USB	
Results										Minimum Margin PASS/FAIL		6.0 dB PASS	
Notes		Comments and Observations											
		Results of scans shown in plot 2. 8dac Neutral line, USB mode, 115V.											

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4.3 Conducted Emissions (Power) - 6dac - USB Source - Neutral Line

Factor Set 1: L1_13A AB002_CBL005_CBL039_12A - -
Factor Set 2: - - - -
Factor Set 3: - - - -
Test Equipment: R10 L1 L2

Conducted Emissions (Power)

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 26/02/2014					Test Eng: Peter Barlow								
Ports: ac power													
Test: ANSI C63.4:2003					using limits of FCC(B)				=CISPR22(B)				
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Line (L/N)	Fact Set	Freq. MHz	Det qp/av	Rec. Level dBuV	Corr'n Factor dB	Total Level dBuV	Limit CISPR22(B) dBuV	Margin CISPR22(B) dB	Notes	
3	1	0	N	1	0.185	qp	43.8	10.0	53.7	64.3	10.6	115V 6dac USB	
3	1	0	N	1	0.185	av	41.3	10.0	51.3	54.3	3.0	115V 6dac USB	
3	1	0	N	1	0.265	qp	39.6	10.0	49.5	61.3	11.8	115V 6dac USB	
3	1	0	N	1	0.265	av	36.1	10.0	46.0	51.3	5.3	115V 6dac USB	
3	1	0	N	1	0.610	qp	39.1	9.9	49.1	56.0	6.9	115V 6dac USB	
3	1	0	N	1	0.610	av	31.1	9.9	41.0	46.0	5.0	115V 6dac USB	
3	1	0	N	1	0.695	qp	36.6	10.0	46.5	56.0	9.5	115V 6dac USB	
3	1	0	N	1	0.695	av	29.5	10.0	39.5	46.0	6.5	115V 6dac USB	
3	1	0	N	1	2.995	qp	32.5	10.0	42.5	56.0	13.5	115V 6dac USB	
3	1	0	N	1	2.995	av	26.9	10.0	36.9	46.0	9.1	115V 6dac USB	
3	1	0	N	1	6.290	qp	34.2	10.1	44.3	60.0	15.7	115V 6dac USB	
3	1	0	N	1	6.290	av	28.4	10.1	38.5	50.0	11.5	115V 6dac USB	
Results										Minimum Margin PASS/FAIL		3.0 dB PASS	
Notes		Comments and Observations											
		Results of scans shown in plot 3. 6dac Neutral line, USB mode, 115V.											

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
	Test No: T5276	Test Report	Page: 22 of 41

4.4 Conducted Emissions (Power) - 6dac - USB Source - Live Line

Factor Set 1:	L1_13A AB002_CBL005_CBL039_12A - -
Factor Set 2:	- - - -
Factor Set 3:	- - - -
Test Equipment:	R10 L1 L2

Conducted Emissions (Power)

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 26/02/2014					Test Eng: Peter Barlow								
Ports: ac power													
Test: ANSI C63.4:2003					using limits of FCC(B)				=CISPR22(B)				
Ports:													
Test: using limits of													
Plot	Op Mode	Mod State	Line (L/N)	Fact Set	Freq. MHz	Det qp/av	Rec. Level dBuV	Corr'n Factor dB	Total Level dBuV	Limit CISPR22(B) dBuV	Margin CISPR22(B) dB	Notes	
4	1	0	L	1	0.185	qp	31.1	10.0	41.0	64.3	23.2	115V 6dac USB	
4	1	0	L	1	0.185	av	27.5	10.0	37.4	54.3	16.8	115V 6dac USB	
4	1	0	L	1	0.615	qp	32.2	9.9	42.2	56.0	13.8	115V 6dac USB	
4	1	0	L	1	0.615	av	24.5	9.9	34.4	46.0	11.6	115V 6dac USB	
4	1	0	L	1	0.680	qp	33.1	10.0	43.0	56.0	13.0	115V 6dac USB	
4	1	0	L	1	0.680	av	25.5	10.0	35.5	46.0	10.5	115V 6dac USB	
4	1	0	L	1	3.590	qp	34.5	10.0	44.5	56.0	11.5	115V 6dac USB	
4	1	0	L	1	3.590	av	28.9	10.0	38.9	46.0	7.1	115V 6dac USB	
4	1	0	L	1	6.280	qp	32.5	10.1	42.6	60.0	17.4	115V 6dac USB	
4	1	0	L	1	6.280	av	26.3	10.1	36.4	50.0	13.6	115V 6dac USB	
4	1	0	L	1	8.570	qp	30.4	10.1	40.5	60.0	19.5	115V 6dac USB	
4	1	0	L	1	8.570	av	24.8	10.1	34.9	50.0	15.1	115V 6dac USB	
Results										Minimum Margin PASS/FAIL		7.1 dB PASS	
Notes		Comments and Observations											
Results of scans shown in plot 4. 6dac live line, USB mode, 115V.													

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
	Test No: T5276	Test Report	Page: 23 of 41

4.5 Conducted Emissions (Power) - 8dac + PSXR - USB Source - Live Line

Factor Set 1: L1_13A AB002_CBL005_CBL039_12A - -
Factor Set 2: - - - -
Factor Set 3: - - - -
Test Equipment: R10 L1 L2

Conducted Emissions (Power)

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 26/02/2014					Test Eng: Peter Barlow								
Ports: ac power													
Test: ANSI C63.4:2003					using limits of FCC(B)				=CISPR22(B)				
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Line (L/N)	Fact Set	Freq. MHz	Det qp/av	Rec. Level dBuV	Corr'n Factor dB	Total Level dBuV	Limit CISPR22(B) dBuV	Margin CISPR22(B) dB	Notes	
5	1	0	L	1	0.165	qp	35.3	10.0	45.2	65.2	20.0	115V PSXR USB	
5	1	0	L	1	0.165	av	31.1	10.0	41.1	55.2	14.2	115V PSXR USB	
5	1	0	L	1	0.215	qp	30.6	10.0	40.6	63.0	22.5	115V PSXR USB	
5	1	0	L	1	0.215	av	27.3	10.0	37.3	53.0	15.7	115V PSXR USB	
5	1	0	L	1	0.635	qp	27.4	10.0	37.4	56.0	18.6	115V PSXR USB	
5	1	0	L	1	0.635	av	22.7	10.0	32.6	46.0	13.4	115V PSXR USB	
5	1	0	L	1	0.680	qp	28.1	10.0	38.0	56.0	18.0	115V PSXR USB	
5	1	0	L	1	0.680	av	22.6	10.0	32.6	46.0	13.4	115V PSXR USB	
5	1	0	L	1	2.380	qp	25.0	10.0	35.0	56.0	21.0	115V PSXR USB	
5	1	0	L	1	2.380	av	20.5	10.0	30.5	46.0	15.5	115V PSXR USB	
5	1	0	L	1	8.830	qp	25.8	10.1	35.9	60.0	24.1	115V PSXR USB	
5	1	0	L	1	8.830	av	30.5	10.1	40.6	50.0	9.4	115V PSXR USB	
Results										Minimum Margin PASS/FAIL		9.4 dB PASS	
Notes		Comments and Observations											
Results of scans shown in plot 5. PSXR live line, USB mode, 115V.													

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
	Test No: T5276	Test Report	Page: 24 of 41

4.6 Conducted Emissions (Power) - 8dac + PSXR - USB Source - Neutral Line

Factor Set 1: L1_13A AB002_CBL005_CBL039_12A - -
Factor Set 2: - - - -
Factor Set 3: - - - -
Test Equipment: R10 L1 L2

Conducted Emissions (Power)

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 26/02/2014					Test Eng: Peter Barlow								
Ports: ac power													
Test: ANSI C63.4:2003					using limits of FCC(B)				=CISPR22(B)				
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Line (L/N)	Fact Set	Freq. MHz	Det qp/av	Rec. Level dBuV	Corr'n Factor dB	Total Level dBuV	Limit CISPR22(B) dBuV	Margin CISPR22(B) dB	Notes	
6	1	0	N	1	0.165	qp	34.7	10.0	44.6	65.2	20.6	115V PSXR USB	
6	1	0	N	1	0.165	av	29.2	10.0	39.2	55.2	16.0	115V PSXR USB	
6	1	0	N	1	0.215	qp	29.5	10.0	39.4	63.0	23.6	115V PSXR USB	
6	1	0	N	1	0.215	av	26.2	10.0	36.2	53.0	16.8	115V PSXR USB	
6	1	0	N	1	0.400	qp	23.1	10.0	33.0	57.9	24.8	115V PSXR USB	
6	1	0	N	1	0.400	av	20.9	10.0	30.9	47.9	17.0	115V PSXR USB	
6	1	0	N	1	0.690	qp	29.4	10.0	39.4	56.0	16.6	115V PSXR USB	
6	1	0	N	1	0.690	av	24.2	10.0	34.1	46.0	11.9	115V PSXR USB	
6	1	0	N	1	2.420	qp	23.0	10.0	33.0	56.0	23.0	115V PSXR USB	
6	1	0	N	1	2.420	av	19.7	10.0	29.7	46.0	16.3	115V PSXR USB	
6	1	0	N	1	8.880	qp	25.4	10.1	35.5	60.0	24.5	115V PSXR USB	
6	1	0	N	1	8.880	av	20.2	10.1	30.3	50.0	19.7	115V PSXR USB	
Results										Minimum Margin PASS/FAIL		11.9 dB PASS	
Notes		Comments and Observations											
		Results of scans shown in plot 6. PSXR neutral line, USB mode, 115V.											

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
	Test No: T5276	Test Report	Page: 25 of 41

4.7 Radiated Emissions - 3m Semi-anech chamber - 8dac + PSXR - USB Source

Factor Set 1:	A15_13C - - CBL002_CBL069_10A	1 m cable
Factor Set 2:	- - -	
Factor Set 3:	- - -	
Test Equipment:	R7 A15	

Radiated Emissions

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 12/02/2014					Test Eng: Joshua Gawthrop								
Ports:													
Test: ANSI C63.4:2003					using limits of FCC(B)					=FCC B			
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Dist m	Fact Set	Freq. MHz	Ant Pol	Rec. Level dBuV	Corr'n Factor dB/m	Corr'n Factor dB	Total Level dBuV/m	Limit FCC_B dBuV/m	Margin FCC_B dB	Notes
7	1	0	3	1	90.000	V	22.2	8.1		30.3	43.5	13.2	#1
7	1	0	3	1	90.000	H	26.9	8.1		35.0	43.5	8.5	#1
7	1	0	3	1	101.870	V	25.3	9.3		34.6	43.5	8.9	#1
7	1	0	3	1	101.870	H	20.4	9.3		29.7	43.5	13.8	#1
7	1	0	3	1	104.700	V	24.1	8.7		32.8	43.5	10.7	#1
7	1	0	3	1	104.700	H	19.1	8.7		27.8	43.5	15.7	#1
7	1	0	3	1	106.700	V	26.4	8.2		34.6	43.5	8.9	#1
7	1	0	3	1	106.700	H	23.0	8.2		31.2	43.5	12.3	#1
Results											Minimum Margin		
											PASS/FAIL		
											8.5 dB		
											PASS		
Notes		Comments and Observations											
#1		Results of scans shown in plots 7 to 9. These emissions all occur at frequencies close to local FM broadcast stations. These emissions were therefore maximised in the chamber in case some or all of them could not be measured on the open area test site. Measurements were made using a 120kHz bandwidth and quasi-peak detector at a measuring distance of 3m in a semi-anechoic chamber.											

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
	Test No: T5276	Test Report	Page: 26 of 41

4.8 Radiated Emissions - 3m Semi-anech chamber - 6dac - USB Source

Factor Set 1:	A15_13C - - CBL002_CBL069_10A	1 m cable
Factor Set 2:	- - - -	
Factor Set 3:	- - - -	
Test Equipment:	R7 A15	

Radiated Emissions

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 12/02/2014					Test Eng: Peter Barlow								
Ports:													
Test: ANSI C63.4:2003					using limits of FCC(B)					=FCC B			
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Dist m	Fact Set	Freq. MHz	Ant Pol	Rec. Level dBuV	Corr'n Factor dB/m	Corr'n Factor dB	Total Level dBuV/m	Limit FCC_B dBuV/m	Margin FCC_B dB	Notes
10	1	0	3	1	101.608	V	26.8	9.4		36.2	43.5	7.3	#1
10	1	0	3	1	101.608	H	22.9	9.4		32.3	43.5	11.2	#1
10	1	0	3	1	104.744	V	27.3	8.7		36.0	43.5	7.5	#1
10	1	0	3	1	104.744	H	19.8	8.7		28.5	43.5	15.0	#1
10	1	0	3	1	108.773	V	27.0	7.8		34.8	43.5	8.7	#1
10	1	0	3	1	108.773	H	23.7	7.8		31.5	43.5	12.0	#1
Results											Minimum Margin		
											PASS/FAIL		
											7.3 dB		
											PASS		
Notes	Comments and Observations												
#1	Results of scans shown in plots 10 to 12. These emissions all occur at frequencies close to local FM broadcast stations. These emissions were therefore maximised in the chamber in case some or all of them could not be measured on the open area test site. Measurements were made using a 120kHz bandwidth and quasi-peak detector at a measuring distance of 3m in a semi-anechoic chamber.												

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
	Test No: T5276	Test Report	Page: 27 of 41

4.9 Radiated Emissions - 3m O.A.T.S - 8dac + PSXR - USB Source

Factor Set 1: A12_FS_12C - - CBL015_11A	1 m cable
Factor Set 2: - - - -	
Factor Set 3: - - - -	
Test Equipment: R4 A12	

Radiated Emissions

Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 12/02/2014					Test Eng: Joshua Gawthrop								
Ports:													
Test: ANSI C63.4:2003					using limits of FCC(B)				=FCC B				
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Dist m	Fact Set	Freq. MHz	Ant Pol	Rec. Level dBuV	Corr'n Factor dB/m	Corr'n Factor dB	Total Level dBuV/m	Limit FCC_B dBuV/m	Margin FCC_B dB	Notes
7	1	0	3	1	30.620	V	10.7	18.7		29.4	40.0	10.6	
7	1	0	3	1	30.720	H	-4.0	18.7		14.7	40.0	25.3	
7	1	0	3	1	35.270	V	11.3	16.3		27.6	40.0	12.4	
7	1	0	3	1	35.270	H	-2.6	16.3		13.7	40.0	26.3	
7	1	0	3	1	48.000	V	17.6	9.6		27.2	40.0	12.8	
7	1	0	3	1	48.000	H	8.5	9.6		18.1	40.0	21.9	
7	1	0	3	1	106.700	V	12.7	12.1		24.8	43.5	18.7	
7	1	0	3	1	106.700	H	13.5	12.1		25.6	43.5	17.9	
7	1	0	3	1	125.000	V	6.4	13.4		19.8	43.5	23.7	
7	1	0	3	1	125.000	H	16.6	13.4		30.0	43.5	13.5	
7	1	0	3	1	162.100	V	21.1	12.1		33.2	43.5	10.3	
7	1	0	3	1	162.100	H	19.3	12.1		31.4	43.5	12.1	
7	1	0	3	1	180.025	V	21.3	11.3		32.6	43.5	10.9	
7	1	0	3	1	180.025	H	21.5	11.3		32.8	43.5	10.7	
7	1	0	3	1	198.100	V	16.8	10.3		27.1	43.5	16.4	
7	1	0	3	1	198.100	H	18.8	10.3		29.1	43.5	14.4	
8	1	0	3	1	250.000	V	13.4	15.0		28.4	46.0	17.6	
8	1	0	3	1	250.000	H	15.2	15.0		30.2	46.0	15.8	
8	1	0	3	1	287.900	V	16.6	15.9		32.5	46.0	13.5	
8	1	0	3	1	287.900	H	24.9	15.9		40.8	46.0	5.2	
Results						Minimum Margin PASS/FAIL					5.2 dB PASS		
Notes		Comments and Observations											
N.B.		Results of scans shown in plots 7 to 9. Table above does not contain all frequencies measured only those with the smallest margins. Measurements were made using a 120kHz bandwidth and quasi-peak detector at a measuring distance of 3m in a semi-anechoic chamber.											

	Report No: R3330 Issue No: 1	FCC ID: 2ABZXJG10	
	Test No: T5276	Test Report	Page: 28 of 41

4.10 Radiated Emissions - 3m O.A.T.S - 6dac - USB Source

Factor Set 1: A12_FS_12C - - CBL015_11A	1 m cable
Factor Set 2: - - - -	
Factor Set 3: - - - -	
Test Equipment: R4 A12	

Radiated Emissions

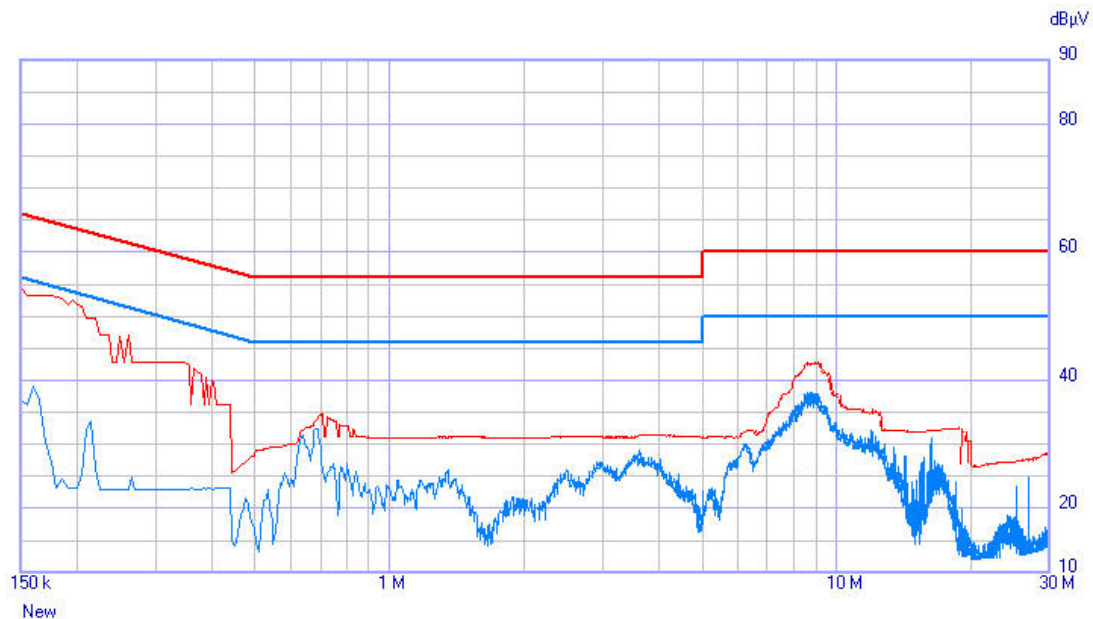
Company: Cyrus Audio Ltd					Product: System 1 (6dac / 8dac + PSXR)								
Date: 12/02/2014					Test Eng: Peter Barlow								
Ports:													
Test: ANSI C63.4:2003					using limits of FCC(B)					=FCC B			
Ports:													
Test:					using limits of								
Plot	Op Mode	Mod State	Dist m	Fact Set	Freq. MHz	Ant Pol	Rec. Level dBuV	Corr'n Factor dB/m	Corr'n Factor dB	Total Level dBuV/m	Limit FCC_B dBuV/m	Margin FCC_B dB	Notes
10	1	0	3	1	30.000	V	7.8	19.1		26.9	40.0	13.1	
10	1	0	3	1	30.000	H	-1.5	19.1		17.6	40.0	22.4	
10	1	0	3	1	56.487	V	22.5	6.6		29.1	40.0	10.9	
10	1	0	3	1	56.487	H	17.6	6.6		24.2	40.0	15.8	
10	1	0	3	1	101.608	V	6.8	11.6	9.5	27.9	43.5	15.6	10k av
10	1	0	3	1	101.608	H	9.3	11.6	9.5	30.4	43.5	13.1	10k av
10	1	0	3	1	104.744	V	10.1	11.9	6.4	28.4	43.5	15.1	10k av
10	1	0	3	1	104.744	H	3.4	11.9	6.4	21.7	43.5	21.8	10k av
10	1	0	3	1	143.935	V	15.1	13.2		28.3	43.5	15.2	
10	1	0	3	1	143.935	H	12.4	13.2		25.6	43.5	17.9	
10	1	0	3	1	146.736	V	15.4	12.9		28.3	43.5	15.2	
10	1	0	3	1	146.736	H	13.2	12.9		26.1	43.5	17.4	
10	1	0	3	1	180.021	V	21.8	11.3		33.1	43.5	10.4	
10	1	0	3	1	180.021	H	19.9	11.3		31.2	43.5	12.3	
10	1	0	3	1	191.973	V	13.8	10.3		24.1	43.5	19.4	
10	1	0	3	1	191.973	H	20.9	10.3		31.2	43.5	12.3	
11	1	0	3	1	250.002	V	14.4	15.0		29.4	46.0	16.6	
11	1	0	3	1	250.002	H	12.4	15.0		27.4	46.0	18.6	
11	1	0	3	1	287.900	V	16.4	15.9		32.3	46.0	13.7	
11	1	0	3	1	287.900	H	25.4	15.9		41.3	46.0	4.7	
Results						Minimum Margin PASS/FAIL					4.7 dB PASS		
Notes		Comments and Observations											
N.B.		Results of scans shown in plots 10 to 12. Table above does not contain all frequencies measured only those with the smallest margins. Unless otherwise noted measurements were made using a 120kHz bandwidth and quasi-peak detector. These measurements were made at 3m on an Open Area Test Site.											
Key:		qp - quasi-peak, av - average, pk - peak											

	Report No: R3330	FCC ID: 2ABZXJG10	
	Issue No: 1		
	Test No: T5276	Test Report	Page: 29 of 41

4.11 Radiated Emissions Above 1GHz

Results of emissions measurements above 1GHz are shown in plots 9 & 12.

All peak emissions were well below the average detector limits; therefore it was not considered necessary to take any spot measurements over this frequency range.



	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (5 kHz)	P Q A pwr_B_QP Margin 5 dB	20 ms	9 kHz	10	OFF	ON	...	...
2	0.15	0.151	500 Hz	P pwr_B_Avg Margin 0 dB	1.9 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General

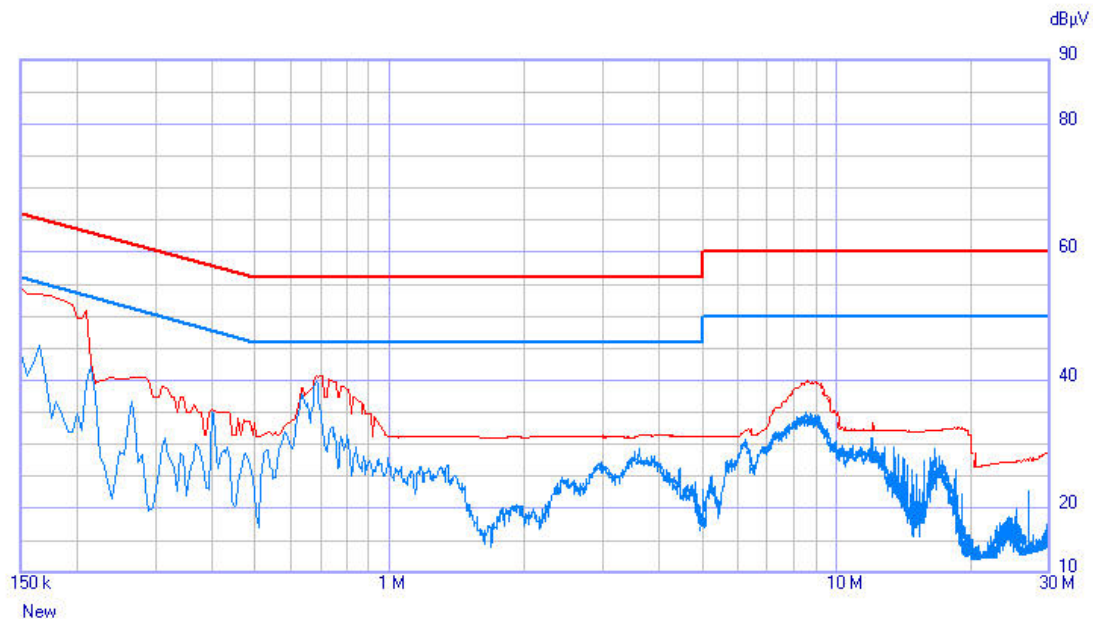
Limits:
pwr_B_QP
pwr_B_Avg

Factors:
L1
AB002_CBL005_CBL039

QPeak —
Avg —

PLOT 1 Conducted Emissions - 115V ac power - Live line - 8 dac - USB Source

Company:	Cyrus Ltd	Product:	System 1 (8 dac)
Date:	26 Feb 14	Test Engineer:	Peter Barlow
Test:	FCC pt 15	Limit:	EN (B) QP + AV
Notes:			
Op.Mode: USB Streaming mode. Playing 1kHz tone at 1/8 power.			
Setup: 8dac powered 115V via L1. All other units powered via L2. See photograph.			
Line:	Live	Attenuator:	10dB PAD
Detector:	Qp, Ave	Operating Mode:	1
LISN:	EMCO	Mod. State:	0
	Filename:	C422651D.png	



	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (5 kHz)	P Q A pwr_B_QP Margin 5 dB	20 ms	9 kHz	10	OFF	ON	...	...
2	0.15	0.151	500 Hz	P pwr_B_Avg Margin 0 dB	1.9 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General

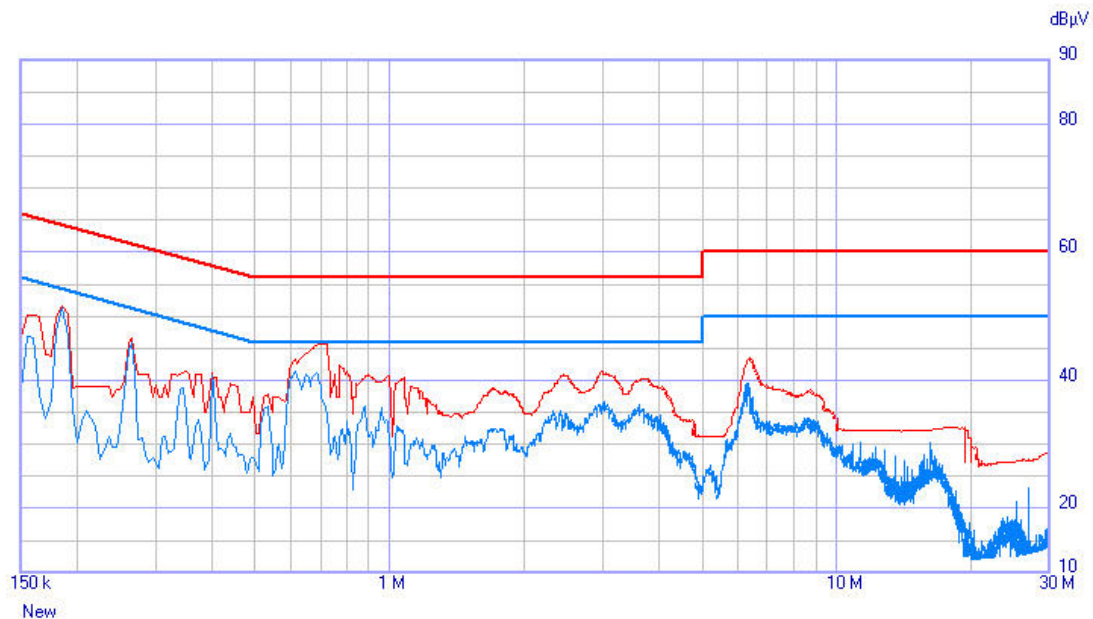
Limits:
pwr_B_QP
pwr_B_Avg

Factors:
L1
AB002_CBL005_CBL039

QPeak —
Avg —

PLOT 2 Conducted Emissions - 115V ac power - Neutral line - 8 dac - USB Source

Company:	Cyrus Ltd	Product:	System 1 (8 dac)
Date:	26 Feb 14	Test Engineer:	Peter Barlow
Test:	FCC pt 15	Limit:	EN (B) QP + AV
Notes:			
Op.Mode: USB Streaming mode. Playing 1kHz tone at 1/8 power.			
Setup: 8dac powered 115V via L1. All other units powered via L2. See photograph.			
Line:	Neutral	Attenuator:	10dB PAD
Detector:	Qp, Ave	Operating Mode:	1
LISN:	EMCO	Mod. State:	0
	Filename:	C422653A.png	



	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (5 kHz)	P Q A pwr_B_QP Margin 5 dB	20 ms	9 kHz	10	OFF	ON	...	...
2	0.15	0.151	500 Hz	P pwr_B_Avg Margin 0 dB	1.9 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General

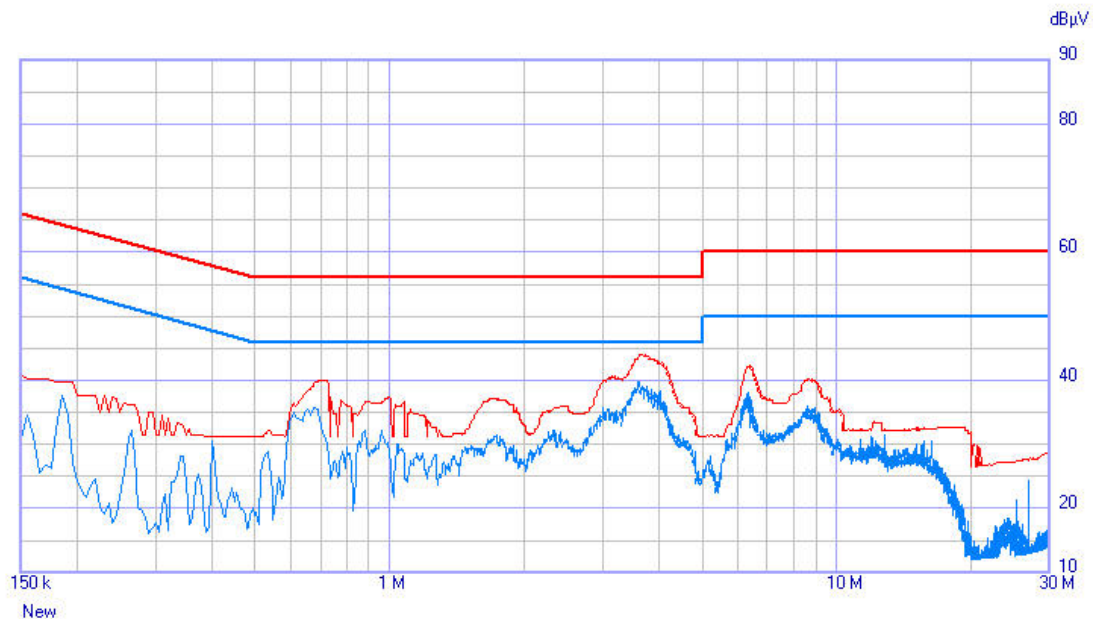
Limits:
pwr_B_QP
pwr_B_Avg

Factors:
L1
AB002_CBL005_CBL039

QPeak —
Avg —

PLOT 3 Conducted Emissions - 115V ac power - Neutral line - 6 dac - USB Source

Company:	Cyrus Ltd	Product:	System 1 (6 dac)
Date:	26 Feb 14	Test Engineer:	Peter Barlow
Test:	FCC pt 15	Limit:	EN (B) QP + AV
Notes:			
Op.Mode: USB Streaming mode. Playing 1kHz tone at 1/8 power.			
Setup: 6dac powered 115V via L1. All other units powered via L2. See photograph.			
Line:	Neutral	Attenuator:	10dB PAD
Detector:	Qp, Ave	Operating Mode:	1
LISN:	EMCO	Mod. State:	0
	Filename:	C4226638.png	



	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (5 kHz)	P Q A pwr_B_QP Margin 5 dB	20 ms	9 kHz	10	OFF	ON	...	...
2	0.15	0.151	500 Hz	P pwr_B_Avg Margin 0 dB	1.9 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General

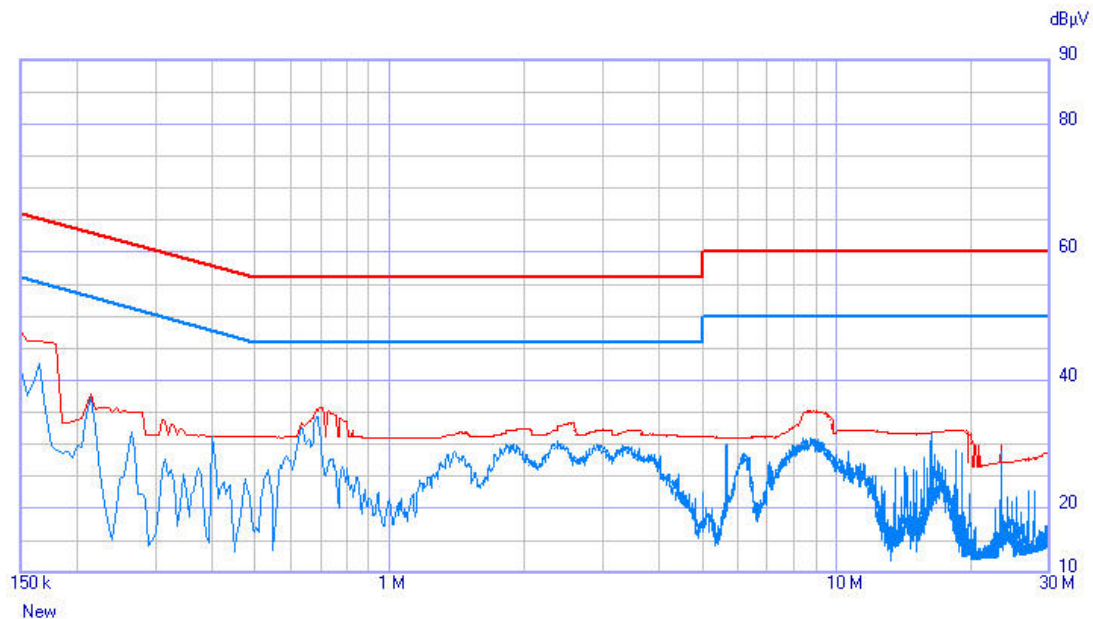
Limits:
pwr_B_QP
pwr_B_Avg

Factors:
L1
AB002_CBL005_CBL039

QPeak —
Avg —

PLOT 4 Conducted Emissions - 115V ac power - Live line - 6 dac - USB Source

Company:	Cyrus Ltd	Product:	System 1 (6 dac)
Date:	26 Feb 14	Test Engineer:	Peter Barlow
Test:	FCC pt 15	Limit:	EN (B) QP + AV
Notes:			
Op.Mode: USB Streaming mode. Playing 1kHz tone at 1/8 power.			
Setup: 6dac powered 115V via L1. All other units powered via L2. See photograph.			
Line:	Live	Attenuator:	10dB PAD
Detector:	Qp, Ave	Operating Mode:	1
LISN:	EMCO	Mod. State:	0
	Filename:	C4226659.png	



	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (5 kHz)	P Q A pwr_B_QP Margin 5 dB	20 ms	9 kHz	10	OFF	ON	...	...
2	0.15	0.151	500 Hz	P pwr_B_Avg Margin 0 dB	1.9 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General

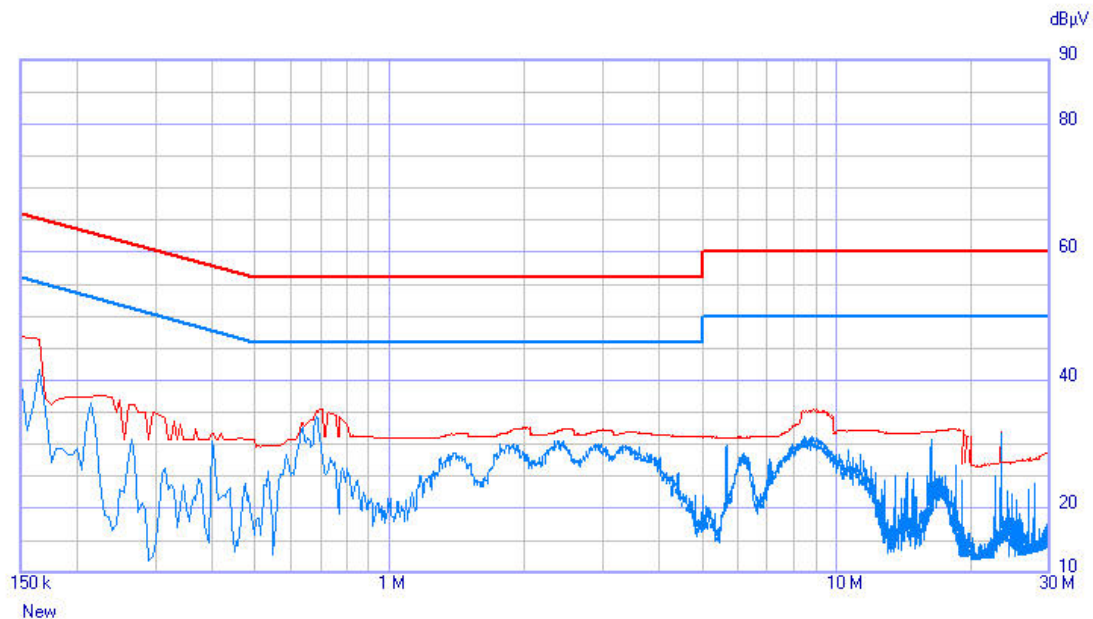
Limits:
pwr_B_QP
pwr_B_Avg

Factors:
L1
AB002_CBL005_CBL039

QPeak —
Avg —

PLOT 5 Conducted Emissions - 115V ac - Live line - 8dac + PSXR - USB Source

Company:	Cyrus Ltd	Product:	System 1 (PSXR/8 dac)
Date:	26 Feb 14	Test Engineer:	Peter Barlow
Test:	FCC pt 15	Limit:	EN (B) QP + AV
Notes:			
Op.Mode: USB Streaming mode. Playing 1kHz tone at 1/8 power.			
Setup: PSXR powered 115V via L1. All other units powered via L2. See photograph.			
Line:	Live	Attenuator:	10dB PAD
Detector:	Qp, Ave	Operating Mode:	1
LISN:	EMCO	Mod. State:	0
		Filename:	C42266CA.png



	Start [MHz]	Stop [MHz]	Step	Detector	Hold Time	RBW	Min Att	Pre Amp	Pre Sel	Prompt start	Ancillary
1	0.15	30	AUTO (5 kHz)	P Q A pwr_B_QP Margin 5 dB	20 ms	9 kHz	10	OFF	ON	...	...
2	0.15	0.151	500 Hz	P pwr_B_Avg Margin 0 dB	1.9 ms	9 kHz	10	OFF	ON	...	...

Ancillary = General

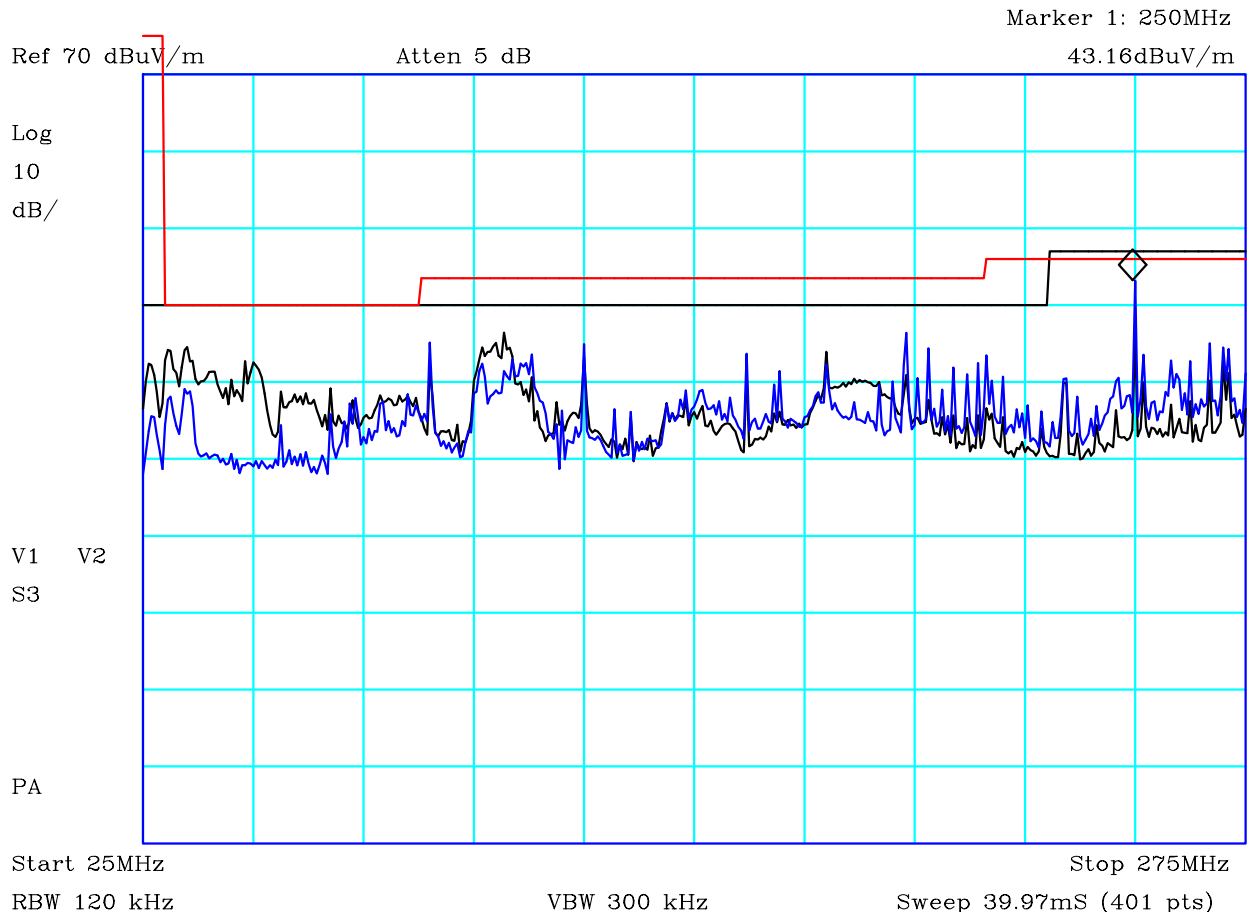
Limits:
pwr_B_QP
pwr_B_Avg

Factors:
L1
AB002_CBL005_CBL039

QPeak —
Avg —

PLOT 6 Conducted Emissions - 115V - Neutral line - 8dac + PSXR - USB Source

Company:	Cyrus Ltd	Product:	System 1 (PSXR/8 dac)
Date:	26 Feb 14	Test Engineer:	Peter Barlow
Test:	FCC pt 15	Limit:	EN (B) QP + AV
Notes:			
Op.Mode: USB Streaming mode. Playing 1kHz tone at 1/8 power.			
Setup: PSXR powered 115V via L1. All other units powered via L2. See photograph.			
Line:	Neutral	Attenuator:	10dB PAD
Detector:	Qp, Ave	Operating Mode:	1
LISN:	EMCO	Mod. State:	0
	Filename:	C42266E5.png	

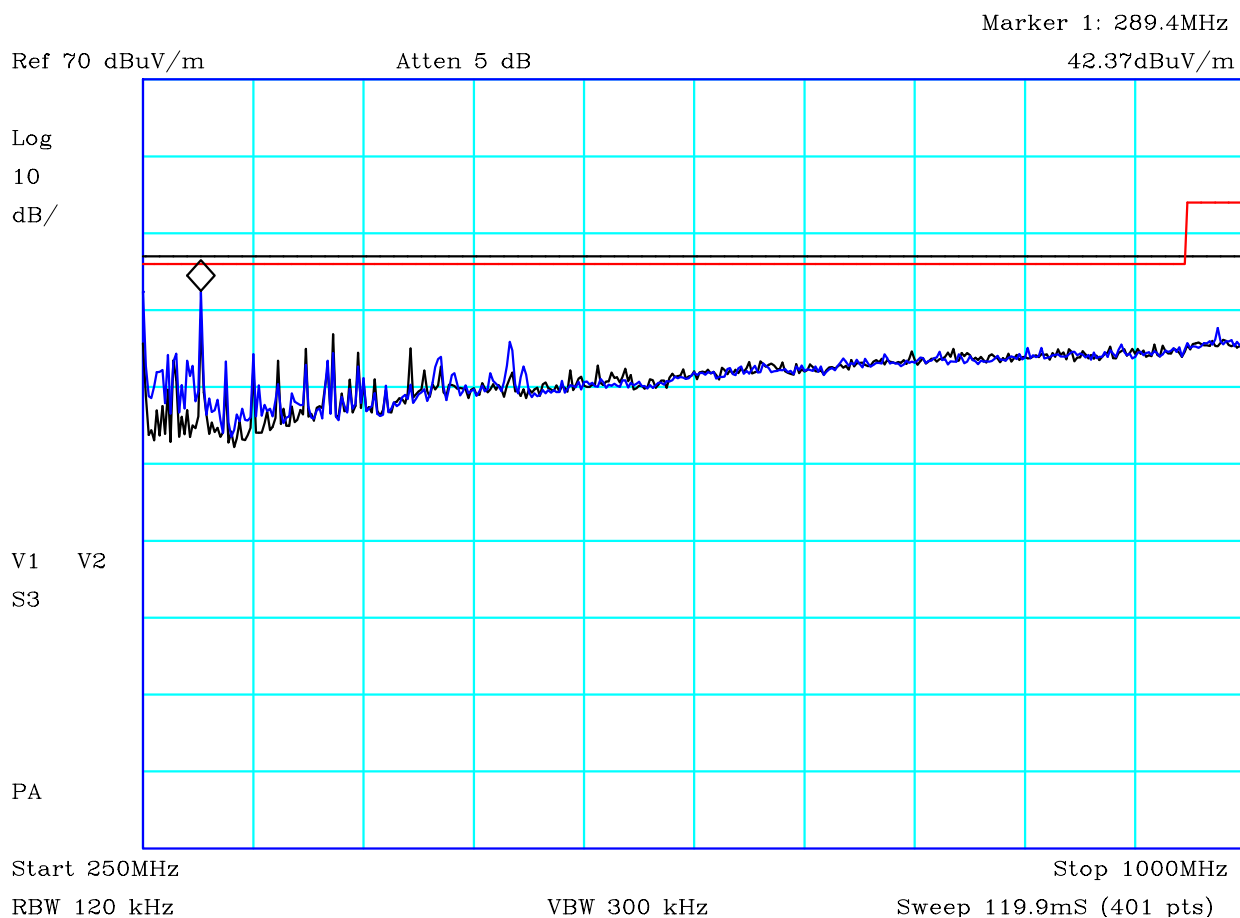


CF1:A15_130215 CF2:CBL002_CBL069_100809

PLOT 7 Radiated Emissions - 25MHz to 275MHz - 8dac + PSXR - USB Source

Company:	Cyrus Audio Ltd	Product:	System 1 (8dac + PSXR)
Date:	12/02/'2014	Test Eng:	Joshua Gawthrop
Method:		Method:	
Limit1:(BLK)	EN55022(B)@3m	Limit2:(RED)	FCC(B)@3m
Limit3:		Limit4:	
Op mode: USB Streaming mode. Playing 1kHz tone at 1/8 power. Setup mode: 8dac connected to PSXR, CDT connected to 8dac via SP Diff coaxial, optical and MC BUS. Mac book pro connected to 8dac via USB also connected to netgear switch via STP. Switch powered from 230V, all others from 115V. Mod state: Vertical polarisation = Black Trace, Blue = Horizontal			
Facility:	Anech_1	Height	1,1.5,2m
Distance	3m	Polarisation	V+H
Angle	0-360	File:	H41124E0
		Mode:	1
		Modification State:	0
		Analysers:	R8

	Report No: R3330	FCC ID: 2ABZXJG10	
	Issue No: 1		
	Test No: T5276	Test Report	Page: 37 of 41

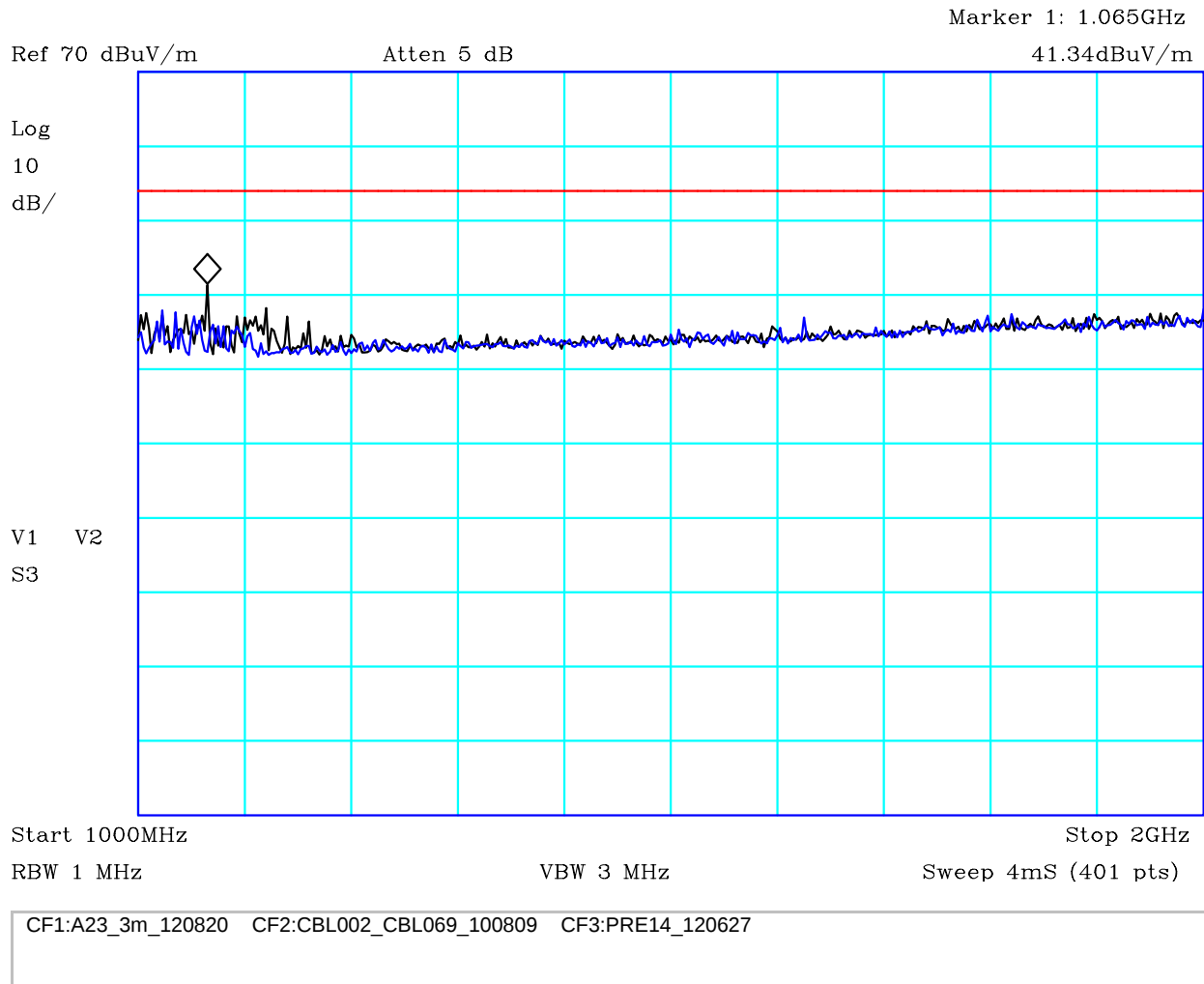


CF1:A15_130215 CF2:CBL002_CBL069_100809

PLOT 8 Radiated Emissions - 250MHz to 1GHz - 8dac + PSXR - USB Source

Company:	Cyrus Audio Ltd	Product:	System 1 (8dac + PSXR)
Date:	12/02/'2014	Test Eng:	Joshua Gawthrop
Method:		Method:	
Limit1:(BLK)	EN55022(B)@3m	Limit2:(RED)	FCC(B)@3m
Limit3:		Limit4:	
Op mode: USB Streaming mode. Playing 1kHz tone at 1/8 power. Setup mode: 8dac connected to PSXR, CDT connected to 8dac via SP Diff coaxial, optical and MC BUS. Mac book pro connected to 8dac via USB also connected to netgear switch via STP. Switch powered from 230V, all others from 115V. Mod state: Vertical polarisation = Black Trace, Blue = Horizontal			
Facility:	Anech_1	Height	1,1.5,2m
Distance	3m	Polarisation	V+H
Angle	0-360	File:	H41124FC
		Mode:	1
		Modification State:	0
		Analyser:	R8

	Report No: R3330	FCC ID: 2ABZXJG10	
	Issue No: 1		
	Test No: T5276	Test Report	Page: 38 of 41



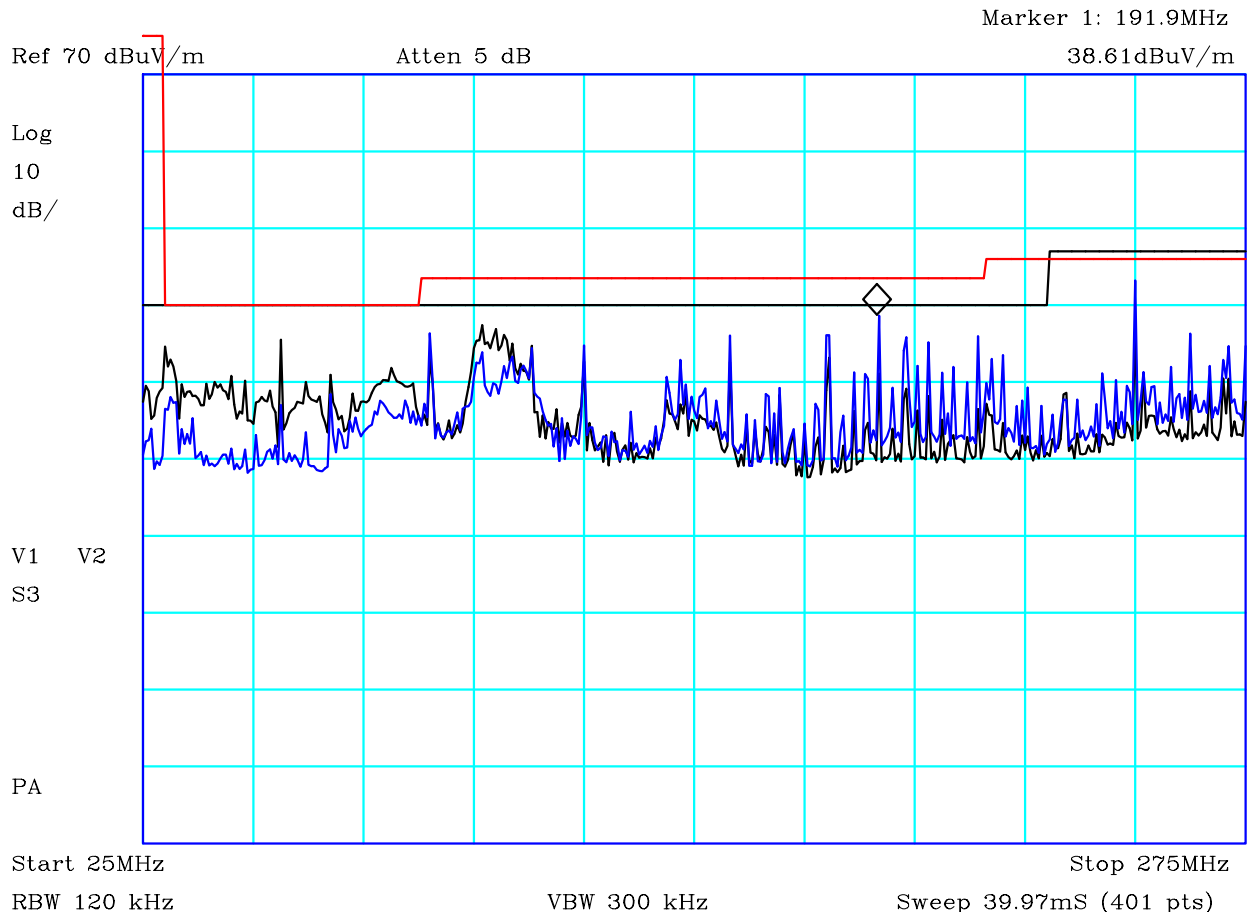
PLOT 9 Radiated Emissions - 1GHz to 2GHz - 8dac + PSXR - USB Source

Company:	Cyrus Audio Ltd	Product:	System 1 (8dac + PSXR)
Date:	12/02/'2014	Test Eng:	Joshua Gawthrop
Method:		Method:	
Limit1:		Limit2:(RED)	FCC(B)@3m
Limit3:		Limit4:	

Op mode: USB Streaming mode. Playing 1kHz tone at 1/8 power.
 Setup mode: 8dac connected to PSXR, CDT connected to 8dac via SP Diff coaxial, optical and MC BUS.
 Mac book pro connected to 8dac via USB also connected to netgear switch via STP. Switch powered from 230V, all others from 115V.
 Mod state:

Vertical polarisation = Black Trace, Blue = Horizontal

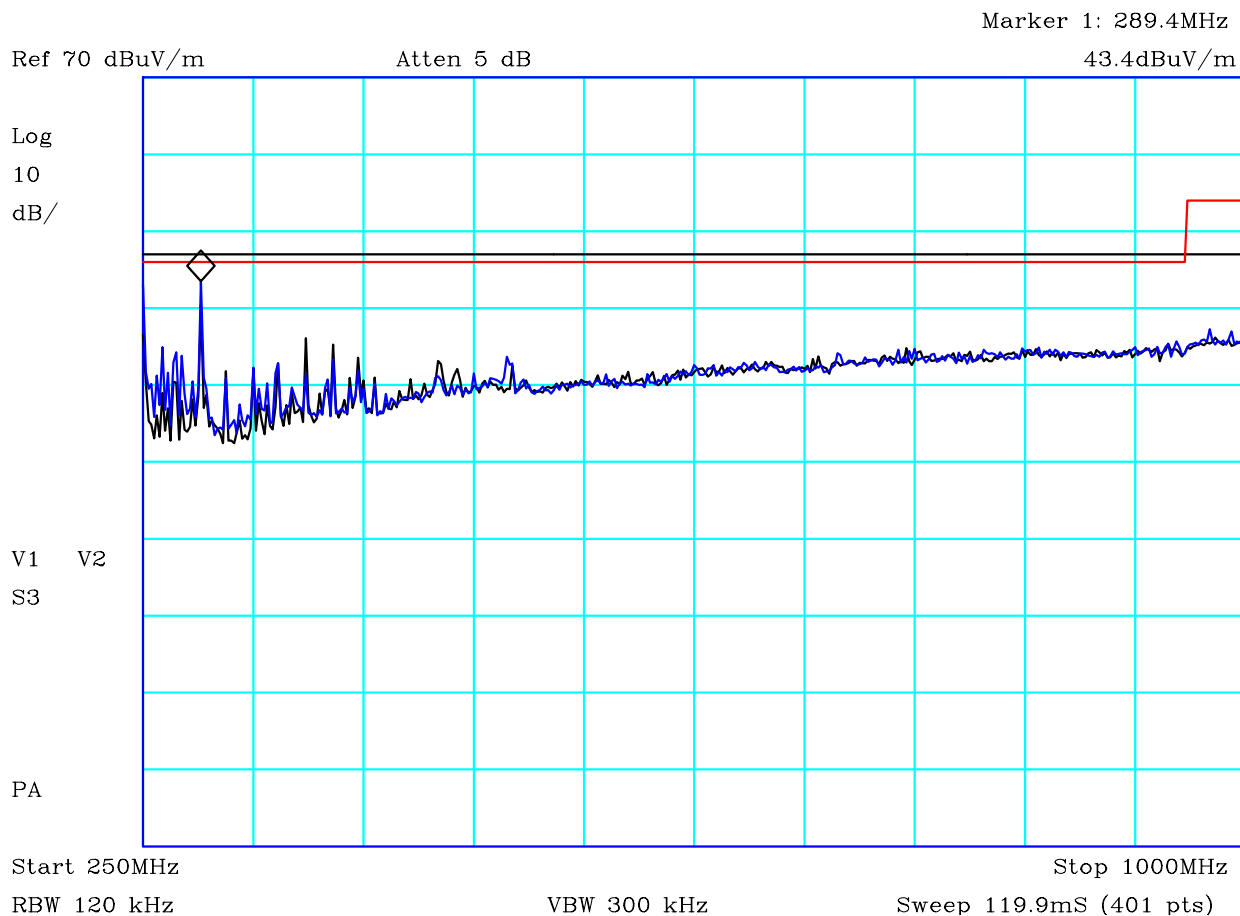
Facility:	Anech_1	Height	1m,1.5m,2m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H41126C5	Analyser:	R8



CF1:A15_130215 CF2:CBL002_CBL069_100809

PLOT 10 Radiated Emissions - 25MHz to 275MHz - 6 dac - USB Source

Company:	Cyrus Audio Ltd	Product:	System 1 (6dac)
Date:	12/02/'2014	Test Eng:	Joshua Gawthrop
Method:		Method:	
Limit1:(BLK)	EN55022(B)@3m	Limit2:(RED)	FCC(B)@3m
Limit3:		Limit4:	
Op mode: USB Streaming mode. Playing 1kHz tone at 1/8 power. Setup mode: PSXR on table not powered. CDT connected to 6 Dac via SP Diff coaxial, optical and MC BUS. Mac book pro connected to 6 dac via USB also connected to netgear switch via STP. Switch powered from 230V, all others from 115V. Mod state: Vertical polarisation = Black Trace, Blue = Horizontal			
Facility:	Anech_1	Height	1m,1.5m,2m
Distance	3m	Polarisation	V+H
Angle	0-360	File:	H4112606
		Mode:	1
		Modification State:	0
		Analyser:	R8

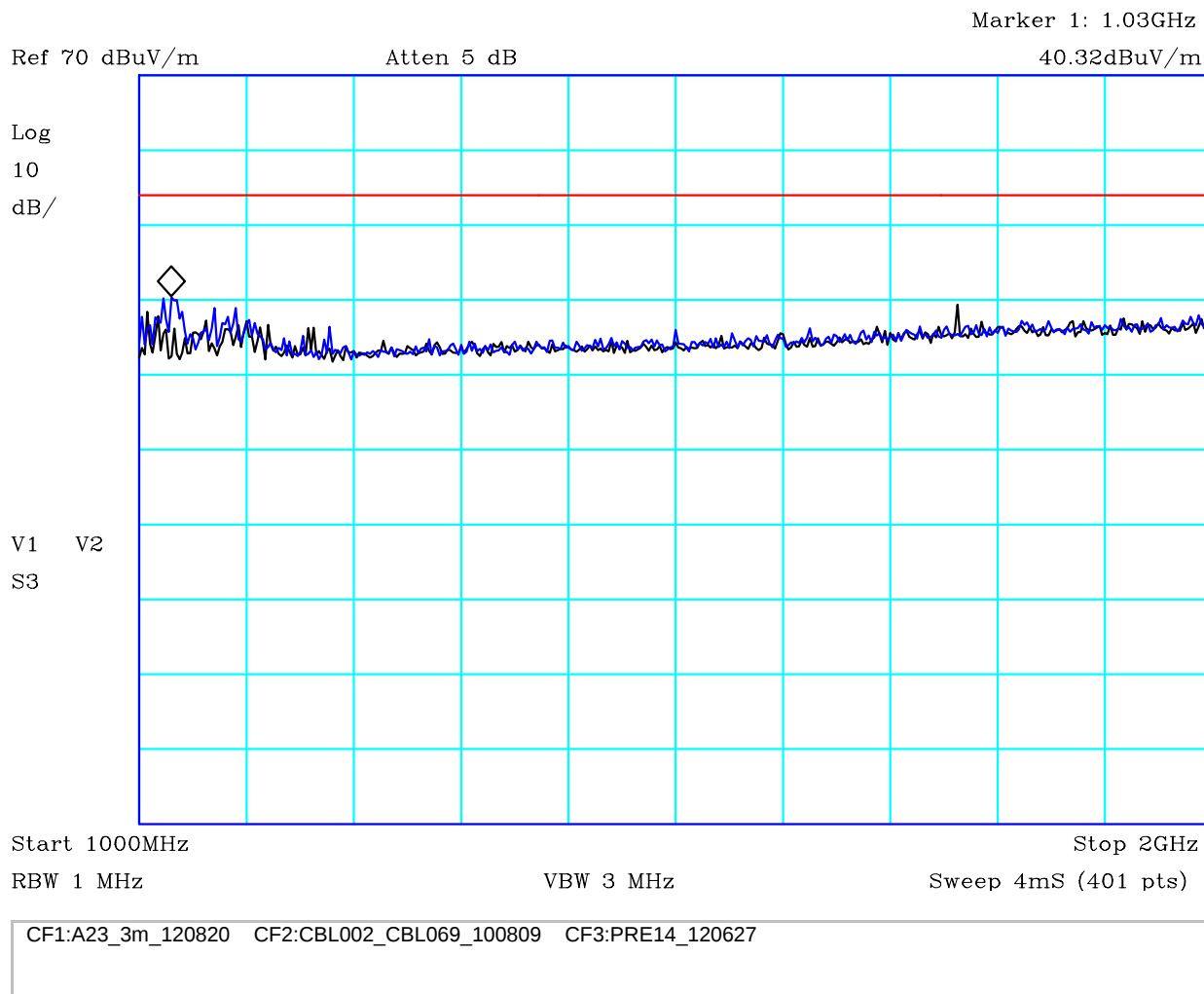


CF1:A15_130215 CF2:CBL002_CBL069_100809

PLOT 11 Radiated Emissions - 250MHz to 1GHz - 6 dac - USB Source

Company:	Cyrus Audio Ltd	Product:	System 1 (6dac)
Date:	12/02/'2014	Test Eng:	Joshua Gawthrop
Method:		Method:	
Limit1:(BLK)	EN55022(B)@3m	Limit2:(RED)	FCC(B)@3m
Limit3:		Limit4:	
Op mode: USB Streaming mode. Playing 1kHz tone at 1/8 power. Setup mode: PSXR on table not powered. CDT connected to 6 Dac via SP Diff coaxial, optical and MC BUS. Mac book pro connected to 6 dac via USB also connected to netgear switch via STP. Switch powered from 230V, all others from 115V. Mod state: Vertical polarisation = Black Trace, Blue = Horizontal			
Facility:	Anech_1	Height	1m,1.5m,2m
Distance	3m	Polarisation	V+H
Angle	0-360	File:	H4112613
		Mode:	1
		Modification State:	0
		Analyser:	R8

	Report No: R3330	FCC ID: 2ABZXJG10	
	Issue No: 1		
	Test No: T5276	Test Report	Page: 41 of 41



PLOT 12 Radiated Emissions - 1GHz to 2GHz - 6 dac - USB Source

Company:	Cyrus Audio Ltd	Product:	System 1 (6dac)
Date:	12/02/'2014	Test Eng:	Joshua Gawthrop
Method:		Method:	
Limit1:		Limit2:(RED)	FCC(B)@3m
Limit3:		Limit4:	
Op mode: USB Streaming mode. Playing 1kHz tone at 1/8 power. Setup mode: PSXR on table not powered. CDT connected to 6 Dac via SP Diff coaxial, optical and MC BUS. Mac book pro connected to 6 dac via USB also connected to netgear switch via STP. Switch powered from 230V, all others from 115V. Mod state: Vertical polarisation = Black Trace, Blue = Horizontal			
Facility:	Anech_1	Height	1m,1.5m,2m
Distance	3m	Polarisation	V+H
Angle	0-360	File:	H4112697
		Mode:	1
		Modification State:	0
		Analyser:	R8