1	Report No: Issue No:	R3256 2	FCC ID: YKBDMXS006		
	Test No:	T4667	Test Report	Page:	1 of 20



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REPORT ON ELECTROMAGNETIC COMPATIBILITY TESTS

Performed at: TWENTY PENCE TEST SITE

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

> > on

Audio Partnership Plc

DAC Magic XS

dated

1st August 2013

Document History

Issue	Date	Affected page(s)	Description of modifications	Revised by	Approved by
1	05/08/13		Initial release		
2	18/11/13	3, 12, 13	Corrected spreadsheet error and added note regarding detector function.	DB	DS

Based on report template: v090319

1	Report No: Issue No:	R3256 2	FCC ID: YKBDMXS006					
	Test No:	T4667		Test	Report		Page:	2 of 20
Equipment Under Test (EUT):				DAC Magic XS				
Test	Commission	ned by:			Audio Partnershi Gallery Court Hankey Place London SE1 4BB	p Plc		
Repr	esentative:				Darren Lee			
Test	Started:				21st March 2013	3		
Test	Completed	:			10th July 2013			
Test	Engineer:				Derek Barlow			
Date	e of Report:				1st August 2013	}		
Writ	ten by:	Der	ek Barlow		Checked by:	Pete	r Barlow	
Sign	ature:		Sarta	\supset	Signature:	M.		
Date	e:	5th A	ugust 2013		Date:	6th Au	gust 201	3

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 47Code of Federal Regulations: Pt 15 Subpart B- Radio Frequency Devices -Class BUnintentional Radiators

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Emissions Test Results Summary

CFR 47					PASS
Test	Port	Method	Limit	PASS/FAIL	Notes
Conducted Emissions	ac power	ANSI C63.4:2003	CISPR22(B)	PASS	
Radiated Emissions		ANSI C63.4:2003	CISPR22(B)	PASS	

specs_fccv100412

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1 EUT Details

1.1 General

The EUT was a USB connected DAC and headphone amplifier for providing high quality sound from the USB port of a PC. It had a metal enclosure and was connected to the PC by means of a screened USB cable. It had a headphone jack that had a pair of headphones plugged into it. It included microprocessor circuitry with a maximum frequency of 480MHz.

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	Dell	Latitude D410	Laptop Computer	38PV82J	#1
2	Dell	LA90PS0-00	Laptop Power Supply	ODF266 71615	#2
3	Audio Partnership	DacMagic	EUT	78M 2FB3	
4	AIWA	HP-X30	Stereo Dynamic Headphones		#3
5	Linksys	SD208	8-Port 10/100 Switch	REG10GB05612	#1
6	Linksys	HKA-1250BS-A	Switch Power Supply	R071010 000173	#2

#1 FCC Declaration of Conformity.

#2 PSU so only FCC Verification required.

#3 Passive device. FCC validation not required.

1.2 Details of Interconnecting Cables

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

From	То	Cable Type	Length	Notes
Mains	Laptop Power Supply	Three core mains	0.8m	
Laptop Power Supply	Laptop Computer	DC Power Cable	1.8m	
Laptop Computer	DacMagic	Screened USB Cable	0.15m	
DacMagic	Headphones	Screened Stereo Audio	2.5m	
Laptop Computer	Ethernet Switch	CAT6 SFTP	3m	
Ethernet Switch	Company Network	CAT6 SFTP	3m	
Ethernet Switch	Power Supply	Twin flex DC	1.8m	

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1.3 Information Supplied By Manufacturer

This table provides information about the EUT supplied by the manufacturer. This information was not verified by any test.

	General EUT Information Provided By Manufacturer					
Response Time:	Instantaneous					
The time that the test equipment under test performs some form o	testing the interfering signal is stepped through the required frequency range. needs to sit on each frequency will depend on the response time of the (EUT). If the response time is longer than 1 second - for example if the EUT f time averaging or if it is running a repetitive cycle - then the default dwell time sed. This will extend the duration of the tests.					
Delayed Restart:	Not applicable. Not mains powered.					
manual switch to resta	products restart automatically after a power cut. Other products rely on a art and others may start automatically but only after a delay. A manual v be necessary for products which have high inrush currents.					
Maximum Clock : Frequency	480MHz					
The upper frequency r frequency used or gen considered, including	equired for radiated emissions tests may depend on the maximum clock erated by the EUT. All clocks and signals used within the EUT must be clocks that are internal to ICs. Normally clocks above 108MHz will require equency range of the radiated emissions test.					
Power Rating:						
	be an important factor for some tests. For example, products rated at less mpt from mains harmonic current tests.					
Physical Size:						
	where physical size may be a factor. For example, some standards permit est to be performed instead of radiated emissions for smaller products.					
Information to User:						
modify the equipment. actual testing that sho	e information to be supplied to the end user - for example warnings not to There may, however, be additional "specific" information that is related to the ould also be supplied. This section is intended for this specific information. One equirement to use screened cables on particular ports.					

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1.4 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.

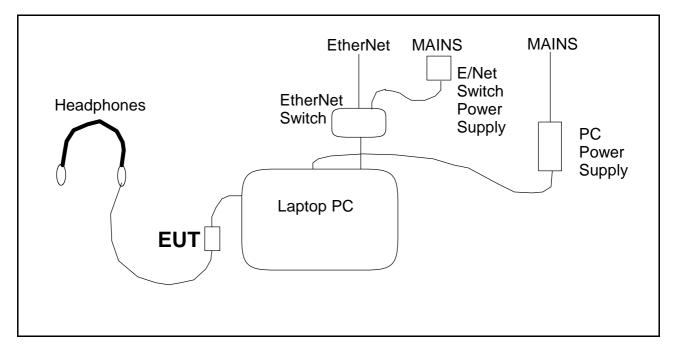
Mod No:	Details	Implemented for
0	As received for testing on 21st June 2013.	

1.5 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	Playing 1kHz tone (2 channels 24bit 96kHz) Host PC scrolling capital H's on the screen as well as playing audio file.

Figure 1 General Arrangement of EUT and Peripherals

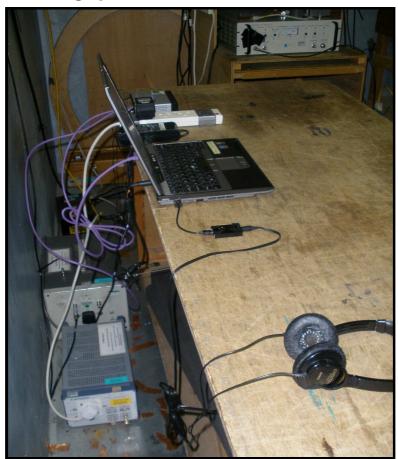


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Photograph 1 Conducted Emissions - Front



Photograph 2 Conducted Emissions - Back



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Photograph 3 Radiated Emissions - Front



Photograph 4 Radiated Emissions - Back



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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 Period
A15 A19 L1 L2 PRE10 R10 R4 R9	Chase X-wing Bilog CBL6140 20MHz-2GHz EMCO 3115 DR Guide (1-18GHz) EMCO 3825/2 LISN R&S ESH3-Z5 LISN LUCIX 100M-20G pre-amp Narda PMM 9010 Receiver (10Hz-30MHz) R&S ESVS10 Agilent E7405A Spectrum Analyser	1047 2431 1358 843862/009 10 595WX11003 843744/002 MY45110758	30/10/2012 25/01/2011 12/03/2013 26/06/2012 30/01/2013 17/12/2012 19/11/2012	1 year 3 years 1 year 1 year 1 year 1 year

Report No: Issue No:	R3256 2	FCC ID: YKBDMXS006		
Test No:	T4667	Test Report	Page:	11 of 20

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.

Final Level	=	Receiver Reading	+	Combined Cable & Attenuator Correction Factor
(dBuV)		(dBuV)		(dB)

Example: if, @ 191kHz, receiver reading was 35.8dBuV

Final Level = 45.8 + 10.0 = 55.8 dBuV

3.2 Radiated Emissions

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 EUT cables were manipulated in an attempt to produce maximum emissions. 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 at the appropriate test distance. 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.

Tabulated results show levels based on the following calculation:

Field Strength (dBuV) = receiver reading (dBuV) + CF (dB/m)

CF is the correction factor for the antenna and cable.

For example: if, at 114MHz, receiver reading was 17.9 dBuV, combined correction factor = 13.1 (dB/m).

Total field strength = 17.9 + 13.1 = 31.0 dBuV/m.

4 Test Results

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

	Report No: Issue No:	R3256 2	FCC ID: YKBDMXS006		
(dB)	Test No:	T4667	Test Report	Page:	12 of 20

4.1 Conducted Emissions (Power) - Results

Factor Set 1:	L1_13A AB002_CBL005_CBL039_12A
Factor Set 2:	
Factor Set 3:	
Test Equipment:	R10 L1 CSET001 L2

Conducted Emissions (Power)

			o Parti		ip Plc			Produc	^{ct:} D	AC Magio	: XS	
Date			6/2013		-			Test E	ng: De	erek Barlow	1	
Ports		ac pov										
Test Ports		ANSI	C63.4:	2003	using I	imits	of	CISP	R22(B)			
Test					using I	imits	of					
	-				using i		51					
Plot	Ор	Mod	Line	Fact	Freq.	Det	Rec.	Corr'n	Total	Limit	Margin	Notes
	Mode	State	(L/N)	Set	MHz	qp/	Level	Factor	Level		CISPR22(B)	
						av	dBuV	dB	dBuV	dBuV	dB	
1	1	0	L	1	0.150	qp	48.1	10.0	58.1	66.0	7.9	
1	1	0	L	1	0.150	av	38.2	10.0	48.2	56.0	7.8	
1	1	0	L	1	0.175	qp	44.9	10.0	54.9	64.7	9.9	
1	1	0	L	1	0.175	av	33.8	10.0	43.8	54.7	11.0	
2	1	0	N	1	0.150	an	49.4	10.0	59.4	66.0	6.6	
2	1	0	N	1	0.150	qp av	49.4 41.6	10.0	59.4 51.6	56.0	4.4	
2	1	0	Ν	1	0.175	qp	43.5	10.0	53.5	64.7	11.3	
2	1	0	Ν	1	0.175	av	37.8	10.0	47.8	54.7	7.0	
	Resul	ts					Minimu	m Marc	jin	4.4	dB	
							PASS/F			PASS		
No	tes						Comme	nts and	Obser	vations		
								1 0 0				
			Kesults	of sca	ns are sh	iown i	n plots	1&2.				
NO	TE:		These t	abulat	ed results	s form	only a	part of	the co	nducted en	nissions res	ults. The
					•							using a 9kHz
					d Quasi-P e points li			These	plots s	show the fu	III spectrum	of results in
			aduntion		, μοπτο π		10006.					

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4.2 Radiated Emissions Results Below 1GHz

 Factor Set 1:
 A15_13C - CBL002_CBL069_10A
 1 m cable

 Factor Set 2:
 A12_FS_11A - CBL015_11A
 1 m cable

 Factor Set 3:
 - - Test Equipment:
 R4 A15 CSET002

Radiated Emissions

Com	ipany:		Audio Partnership Plc Product: DAC Magic XS										
Date	e:	21/06	5/201	3				Test	Eng: P	eter Barlo	<u>w</u>		
Ports													
Test		ANSI	C63.	4:200	03 using	limits	s of	CIS	PR22(E	8)			
Ports													
Test	-				using	limits	S OT						
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 CISPR22(B) dBuV/m	Margin CISPR22(B) dB	Notes
3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4	1 1 1 1 1 1 1 1 1 1 1		10 10 10 10 10 10 10 10 10 10 10 10	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	132.800 135.600 140.600 140.600 147.400 152.800 152.800 192.000 196.625 431.300 431.300 433.100 614.400	> H > H > H > H > H > H > H > H > H > H	5.7 4.8 6.7 6.2 10.9 5.4 15.7 5.8 13.5 11.8 7.3 8.4 10.4 11.0 5.6	13.4 13.4 13.4 13.4 12.9 12.9 12.8 12.8 10.3 10.3 20.6 20.6 20.6 20.6 20.6 25.0		19.1 18.2 20.1 19.6 23.8 18.3 28.5 18.6 23.8 22.1 27.9 29.0 31.0 31.6 30.6	30.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0	10.9 11.8 9.9 10.4 6.2 11.7 1.5 11.4 6.2 7.9 9.1 8.0 6.0 5.4 6.4	
4 4 4 4 4 4	1 1 1 1 1 1	0 0 0 0 0	10 10 3 3 10 10	2 2 1 2 2 2 2	614.400 663.500 712.700 712.700 761.900 761.900	H V H V H	3.8 3.3 13.9 17.4 4.9 5.3	25.0 26.3 23.2 23.2 28.0 28.0		28.8 29.6 37.1 40.6 32.9 33.3	37.0 37.0 47.5 47.5 37.0 37.0	8.2 7.4 10.4 6.9 4.1 3.7	#1 #1
	Resul	ts					Minimu PASS/F		jin		1.5 PASS	dB	
No	tes					Comr	nents ar	nd Obse	ervatior	าร			
	DTE		These band	e tabu width	lated meas of 120kHz	and a	ents we a Quasi-	ere mad Peak de	e with etector	a CISPR1	6 compliant	a Peak detec receiver usi	
NC #					ot listed ex pients on th			-	-			hoic chambe	r.

		Report No: Issue No:	R3256 2	FCC ID: YKBDMXS006		
6	JB)	Test No:	T4667	Test Report	Page:	14 of 20

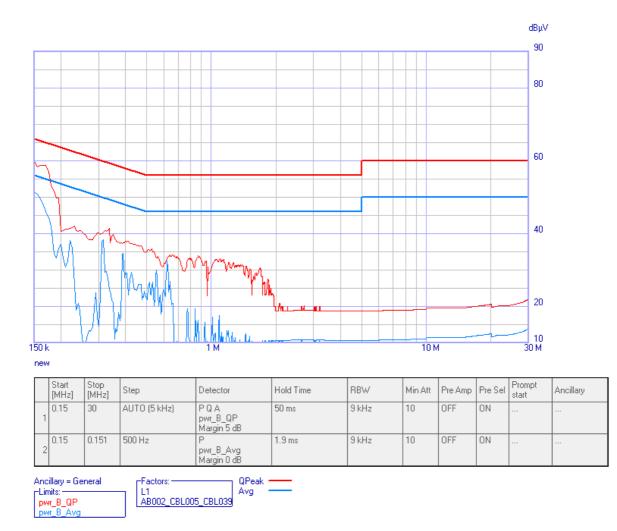
4.3 Radiated Emissions Results Above 1GHz

Factor Set 1:	A19_3m_12B PRE10_12A - CBL002_CBL003_09C	1 m cable
Factor Set 2:		
Factor Set 3:		
Test Equipment	: R9 A19 CSET002 PRE10	

Radiated Emissions

		Audi		irtnei	ship Plc			Pro	oduct:	DAC Ma	agic XS		
Date	:	26/06	5/201	3				Te	st Eng:	Derek Ba	rlow		
Ports													
Test		ANSI	C63.	4:200	03 using	limits	s of	CI	SPR22	(B)			
Ports													
Test	:				using	limits	s of						
Plot	Op Mode	Mod State	Dist m	Fact Set	Freq. MHz	Ant Pol	Det. Type	Rec. Level dBuV	Corr'n Factor dB	Total Level dBuV/m	Limit FCC(B) dBuV/m	Margin FCC(B) dB	Notes
5 5	1	0	3 3	1	1398.000 1398.000	v v	pk av	53.2 38.8	-7.7	45.5 31.1	74.0 54.0	28.5 22.9	
5	1	0	3	1	1595.000	v	pk	51.0	-8.1	42.9	74.0	31.1	
5	1	0	3	1	1595.000	v	av	45.6	-8.1	37.5	54.0	16.5	
5	1	0	3	1	1595.000	v	pk	53.1	-8.1	45.0	74.0	29.0	
5	1	0	3	1	1595.000	V	av	42.5	-8.1	34.4	54.0	19.6	
5	1	0	3	1	1595.000	V	pk	53.8	-8.1	45.7	74.0	28.3	
5	1	0	3	1	1595.000	V	av	41.3	-8.1	33.3	54.0	20.7	
5	1	0	3	1	1595.000	V	pk	52.9	-8.1	44.8	74.0	29.2	
5	1	0	3	1	1595.000	V	av	44.1	-8.1	36.0	54.0	18.0	
5	1	0	3	1	1398.000	н	pk	48.2	-7.7	40.5	74.0	33.5	
5	1	0	3	1	1398.000	н	av	40.3	-7.7	32.6	54.0	21.4	
5	1	0	3	1	1595.000	н	pk	54.7	-8.1	46.6	74.0	27.4	
5	1	0	3	1	1595.000	н	av	46.6	-8.1	38.5	54.0	15.5	
5	1	0	3	1	1750.000	H	pk	51.6	-7.5	44.1	74.0	29.9	
5	1	0	3	1	1750.000	H	av	47.6	-7.5	40.1	54.0	13.9	
5 5	1	0 0	3 3	1	1900.000	H H	pk	47.3 45.9	-7.0	40.4 38.9	74.0 54.0	33.6 15.1	
5	1	0	3	1	1900.000 1990.000	н Н	av pk	45.9 47.0	-7.0 -6.7	38.9 40.3	54.0 74.0	33.6	
5	1	0	3	1	1990.000	H	av	41.2	-6.7	40.3 34.5	54.0	19.4	
	Resul	ts						Minimu PASS/F	-	jin	13.9 PASS	dB	
No	tes					Com	nents	and Ob	servati	ons			
			Resul	ts of	scans show	/n in p	olots 5	5&6					
Ke	ey:		qp - c	juasi-j	beak, av - a	vera	ge, pk	- peak					

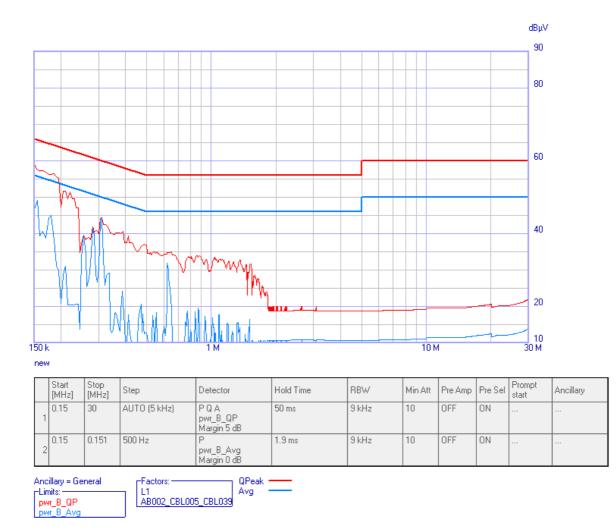
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PLOT 1 Conducted Emissions - Live Conductor (of PC PSU)

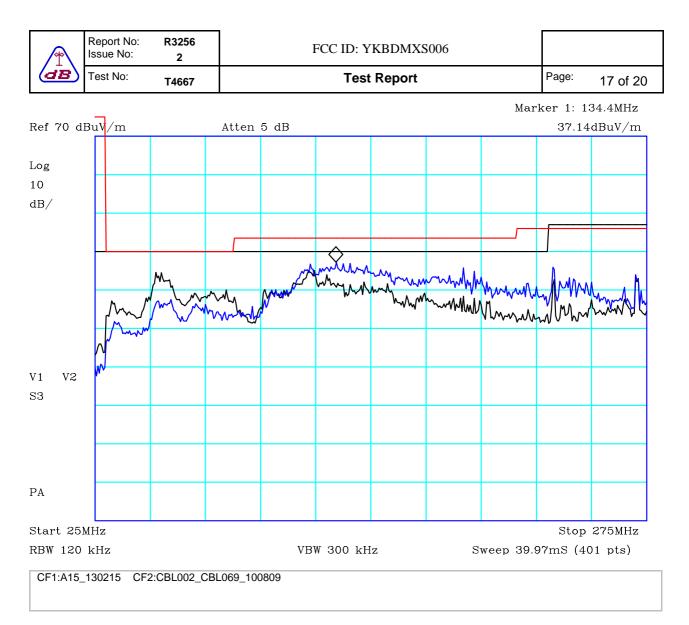
Company:	Audio Partne	ership	Product:	DAC Magic	XS	
Date:	26 Jun 13		Test Engine	er: Derek Barlo	W	
Test:	EN55022		Limit:	EN (B) QP	+ AV	
-			bit sample of 1kHz to on to local Ethernet sy		nes.	
Line:	Live	Attenuator:		Operating Mode:	1	
Detector:	QP and Avg			Mod. State:	0	
LISN:	EMCO	Filename:	C3626500.png			

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(dB)	Test No:	T4667	Test Report	Page:	16 of 20



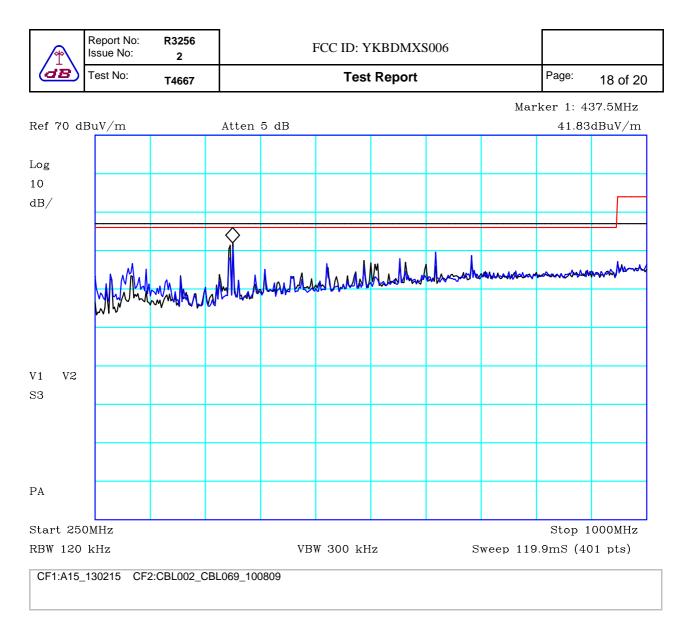
PLOT 2 Conducted Emissions - Neutral Conductor (of PC PSU)

Company:	Audio Partne	ership	Product:	DAC Magic	XS	
Date:	26 Jun 13		Test Engine	er: Derek Barlo	W	
Test:	EN55022		Limit:	EN (B) QP	+ AV	
PC displaying	scrolling H patter	n. 100M connecti	bit sample of 1kHz to on to local Ethernet sy recorded in table.		nes.	
Line: Detector: LISN:	Neutral QP and Avg EMCO	Attenuator: Filename:	C3626532.png	Operating Mode: Mod. State:	1 0	



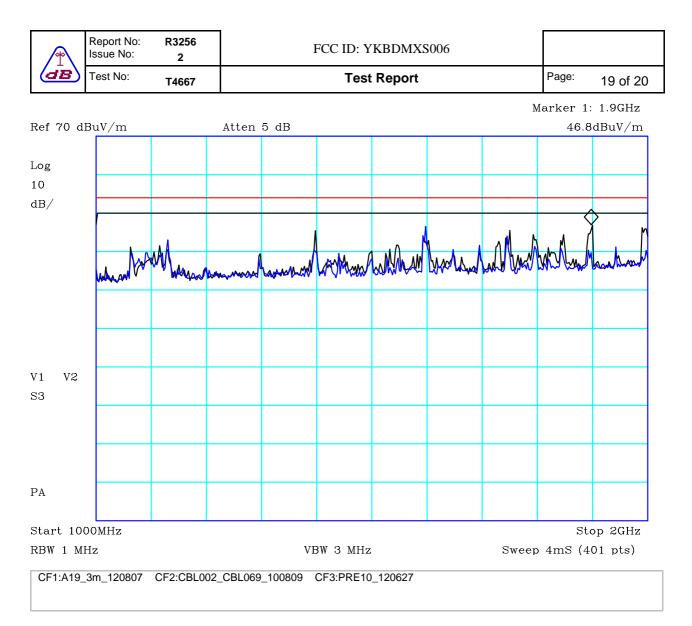
PLOT 3 Radiated Emissions - 25MHz to 275MHz

Company:	Audio Partr	ership	Product:	DAC Magic XS	6
Date:	21/03/2013		Test Eng:	Peter Barlow	
Method:			Method:		
Limit1:(BLK)	EN55022(B)@3m	Limit2:(RE	D) FCC(B)@3m	
Limit3:			Limit4:		
Setup: EUT plu powered by its cable to Linksy to patch panel Mod.state: 1 U	ugged into LHS external PSU. /s switch 100M SB filtering, sh	Headphones cor ethernet. Switch orted out ferrites	I Lattitude D410 La nnected to EUT. PC running from PSU	with CAT6 SFTP with CAT6 SFTP cab	le
Facility:	Anech_2	Height	1m,1.5m,2m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H3521725	Analyser:	



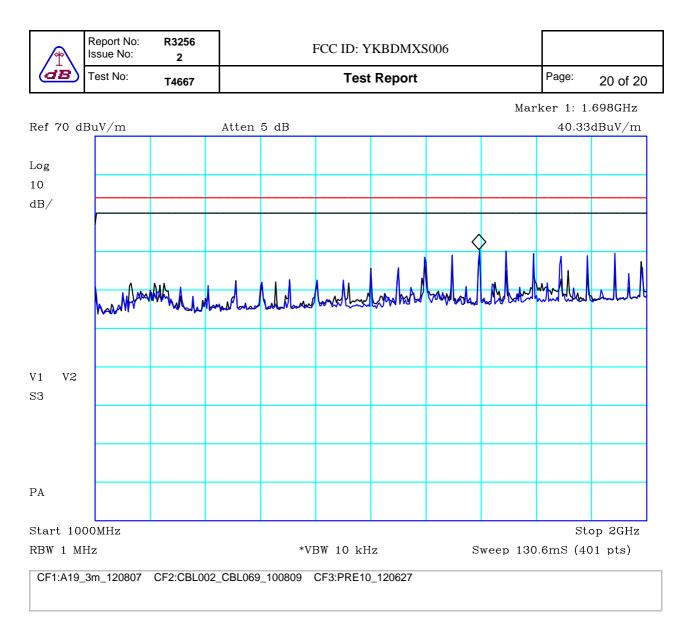
PLOT 4 Radiated Emissions - 250MHz to 1 GHz

Company:	Audio Partn	ership	Product:	DAC Magic XS					
Date:	21/03/2013		Test Eng:	Peter Barlow					
Method:			Method:						
Limit1:(BLK)	EN55022(B)@3m	Limit2:(RED)	FCC(B)@3m					
Limit3:			Limit4:						
Op.Mode: EUT in USB 2.0 mode playing 192kHz sample rate 1kHz tone through Headphones. PC displaying scrolling H pattern. 100M ethernet to switch. Setup: EUT plugged into LHS USB port of Dell Lattitude D410 Laptop, Laptop powered by its external PSU. Headphones connected to EUT. PC with CAT6 SFTP cable to Linksys switch 100M ethernet. Switch running from PSU with CAT6 SFTP cable to patch panel. Mod.state: 1 USB filtering, shorted out ferrites on audio out. Vertical Antenna Polarisation = Black Trace, Horizontal = Blue Trace.									
			orizontal = Blue Trac						
Facility:	Anech_2	Height	orizontal = Blue Trac 1m,1.5m,2m	Mode:	1				
		·			1 0				



PLOT 5 Radiated Emissions - 1GHz to 2GHz (peak)

Company:	Audio Partn	ership	Product:	DAC Magic XS	
Date:	21/03/2013		Test Eng:	Peter Barlow	
Method:			Method:		
Limit1:(BLK)	EN55022(B)@3m	Limit2:(REI	D) FCC(B) AVERA	GE @3m
Limit3:			Limit4:		
Setup: EUT plu powered by its cable to Linksy to patch panel. Mod.state: 1 U Vertical Antenr	igged into LHS external PSU. s switch 100M SB filtering, sho a Polarisation	Headphones cor ethernet. Switch orted out ferrites = Black Trace, H	Lattitude D410 La nected to EUT. PC running from PSU on audio out. orizontal = Blue Tr	C with CAT6 SFTP with CAT6 SFTP cable ace.	9
Facility:	Anech_2	Height	1m,1.5m,2m	Mode:	1
Distance	3m	Polarisation	V+H	Modification State:	0
Angle	0-360	File:	H352178C	Analyser:	



PLOT 6 Radiated Emissions - 1GHz to 2GHz (with video averaging)

Company:	Audio Partr	nership	Product:	DAC Magic XS
Date:	21/03/2013		Test Eng:	Peter Barlow
Method:			Method:	
Limit1:(BLK)	EN55022(E	3)@3m	Limit2:(RED)	FCC(B) AVERAGE @3m
Limit3:			Limit4:	
powered by its	external PSU. ys switch 100M	Headphones con ethernet. Switch	C .	
Mod.state: 1 L	Ū.		on audio out. orizontal = Blue Tra	ce.
Mod.state: 1 L	Ū.			Ce. Mode: 1
Mod.state: 1 L	na Polarisation	= Black Trace, H	orizontal = Blue Tra	