Report No:CCIS15090070904

FCC REPORT

Applicant: WORLD MEDIA AND TECHNOLOGY Corp

Address of Applicant: 600 Brickell World Plaza, Suite 1775, Miami, FL 33132

Equipment Under Test (EUT)

Product Name: Smart Glasses

Model No.: Space Lumina

FCC ID: 2AFFB-LUMINA

Applicablestandards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 08 Sep., 2015

Date of Test: 08 Sep., to 30 Dec., 2015

Date of report issued: 30 Dec., 2015

Test Result: Pass*

*In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCISproduct certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	30 Dec., 2015	Original

Reviewed by: Over Men Date: 30 Dec., 2015

Project Engineer





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4 Test Summary

Test Item	Section in CFR 47	Result		
Conducted Emission	Part15.107	Pass		
Radiated Emission	Part15.109	Pass		

Pass: The EUT complies with the essential requirements in the standard.



Report No: CCIS15090070904

5 General Information

5.1 Client Information

Applicant:	WORLD MEDIA AND TECHNOLOGY Corp
Address of Applicant:	600 Brickell World Plaza, Suite 1775, Miami, FL 33132
Manufacturer/ Factory:	Quality Technology Industrial Co.,Ltd
Address of Manufacturer/ Factory:	Room 201~203, 2/F, Block B3, Ming You Industrial Products, Procurement Center, #168 Bao Yuan Road, Bao'an District, Shenzhen, China.

5.2 General Description of E.U.T.

Product Name:	Smart Glasses			
Model No.:	Space Lumina			
Power supply:	(1) Rechargeable Li-ion Battery DC3.7V-720mAh(2) Rechargeable Li-ion Battery DC3.7V-435mAh			
AC adapter :	Model: SK22G-0500200Z Input:100-240V AC,50/60Hz 0.35A Output:5V DC MAX2A			

5.3 Test Mode

Operating mode	Detail description
PC mode	Keep the EUT in data exchange with PC by USB cable. (The worst case)
Charging & Playing mode	Keep the EUT in Charging & playing mode
Charging & Recording mode	Keep the EUT in Charging & recording mode.
Remark:	Just the worst case mode shown in report.

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.



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5.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	DELL KEYBOARD		N/A	DoC
DELL	DELL MOUSE		N/A	DoC
HP	HP Printer		05257893	DoC
MERCURY	MERCURY Wireless router		12922104015	FCC ID
NAKAMICHI	NAKAMICHI Bluetooth earphone		N/A	FCC ID

5.5 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012.

• IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

• CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: +86-755-23118282 Fax: +86-755-23116366



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5.7 Test Instruments list

Radia	Radiated Emission:									
Item Test Equipment		Test Equipment Manufacturer Mode		Inventory No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)				
1	3m SAC	SAEMC	9(L)*6(W)* 6(H)	CCIS0001	08-23-2014	08-22-2017				
2	BiConiLog Antenna	SCHWARZBECK	VULB9163	CCIS0005	03-28-2015	03-28-2016				
3	Horn Antenna	SCHWARZBECK	BBHA9120D	CCIS0006	03-28-2015	03-28-2016				
4	Pre-amplifier (10kHz-1.3GHz)	HP	8447D	CCIS0003	04-01-2015	03-31-2016				
5	Pre-amplifier (1GHz-18GHz)	Compliance Direction Systems Inc.	PAP-1G18	CCIS0011	04-01-2015	03-31-2016				
6	Spectrum analyzer 9k-30GHz	Rohde & Schwarz	FSP30	CCIS0023	03-28-2015	03-28-2016				
7	EMI Test Receiver	Rohde & Schwarz	ESRP7	CCIS0167	03-28-2015	03-28-2016				

Conducted Emission:									
Item	Test Equipment	Manufacturer	Inventory	Cal.Date	Cal.Due date				
				No.	(mm-dd-yy)	(mm-dd-yy)			
1	Shielding Room	ZhongShuo Electron	11.0(L)x4.0(W)x3.0(H)	CCIS0061	08-23-2014	08-22-2017			
2	EMI Test Receiver	Rohde & Schwarz	ESCI	CCIS0002	03-28-2015	03-28-2016			
3	LISN	CHASE	MN2050D	CCIS0074	03-28-2015	03-28-2016			
4	Coaxial Cable	CCIS	N/A	CCIS0086	04-01-2015	03-31-2016			



6 Test results and Measurement Data

6.1 Conducted Emission

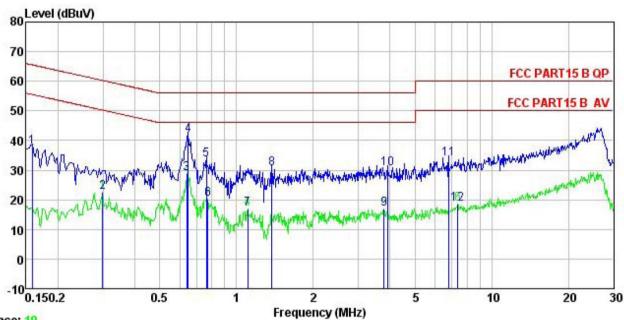
	-							
Test Requirement:	FCC Part15 B Section 15.10	7						
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	150kHz to 30MHz							
Class / Severity:	Class B							
Receiver setup:	RBW=9kHz, VBW=30kHz	RBW=9kHz, VBW=30kHz						
Limit:	Frequency range (MHz)	Limit	(dBµV)					
		Quasi-peak	Average					
	0.15-0.5	66 to 56*	56 to 46*					
	0.5-5 0.5-30	56 60	46 50					
	* Decreases with the logarith		50					
Test setup:	Reference Plan	· · · · · ·						
Toot procedure	AUX Equipment Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	Filter — AC po						
Test procedure	 The E.U.T and simulators line impedance stabilization 500hm/50uH coupling impedance. The peripheral devices are a LISN that provides a 500 termination. (Please refers photographs). Both sides of A.C. line are interference. In order to fir positions of equipment an according to ANSI C63.4: 	on network(L.I.S.N.). The pedance for the measure also connected to the phm/50uH coupling impose to the block diagram of the checked for maximum and the maximum emissed all of the interface ca	ne provide a ring equipment. e main power through bedance with 50ohm of the test setup and n conducted ion, the relative bles must be changed					
Test environment:	Temp.: 23°C Hun	nid.: 56% Pro	ess.: 101kPa					
Measurement Record:	,	Uı	ncertainty: ±3.28dB					
Test Instruments:	Refer to section 5.7 for detail		-					
Test mode:	Refer to section 5.3 for details							
Test results:	Pass							





Measurement data:

Line:



Trace: 19

Site

: CCIS Shielding Room : FCC PART15 B QP LISN LINE Condition

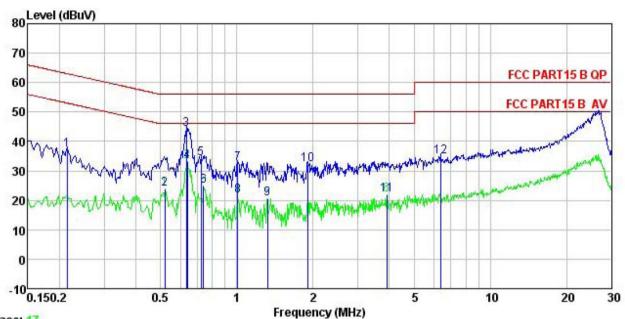
: Smart Glasses

Model : Space lumina
Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa
Test Engineer: YT
Remark :

CHAIR	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∜	<u>dB</u>	dB	dBu₹	dBu₹	<u>dB</u>	
1	0.158	26.87	0.27	10.78	37.92	65.56	-27.64	QP
2	0.299	11.52	0.26	10.74	22.52	50.28	-27.76	Average
3	0.637	17.83	0.24	10.77	28.84	46.00	-17.16	Average
1 2 3 4 5 6 7 8	0.647	30.93	0.24	10.77	41.94	56.00	-14.06	QP
5	0.763	22.49	0.23	10.80	33.52	56.00	-22.48	QP
6	0.771	9.07	0.23	10.80	20.10	46.00	-25.90	Average
7	1.106	5.82	0.25	10.88	16.95	46.00	-29.05	Average
8	1.374	19.45	0.25	10.91	30.61	56.00	-25.39	QP
9	3.779	5.80	0.28	10.90	16.98	46.00	-29.02	Average
10	3.901	19.38	0.28	10.89	30.55	56.00	-25.45	QP
11	6.769	22.74	0.32	10.81	33.87	60.00	-26.13	QP
12	7.368	7.28	0.32	10.82	18.42	50.00	-31.58	Average



Neutral:



Trace: 17 Site

: CCIS Shielding Room : FCC PART15 B QP LISN NEUTRAL Condition

: Smart Glasses : Space lumina EUT Model Test Mode : PC mode
Power Rating : AC 120/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: YT

Remark

.e.mark	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∀	<u>d</u> B	₫B	dBu₹	dBu∇	<u>db</u>	
1	0.214	26.17	0.25	10.76	37.18	63.05	-25.87	QP
2	0.521	12.98	0.28	10.76	24.02	46.00	-21.98	Average
3	0.634	33.10	0.21	10.77	44.08	56.00	-11.92	QP
2 3 4 5	0.637	22.15	0.21	10.77	33.13	46.00	-12.87	Average
5	0.724	23.29	0.18	10.78	34.25	56.00	-21.75	QP
6 7	0.739	13.79	0.19	10.79	24.77	46.00	-21.23	Average
7	1.010	21.35	0.22	10.87	32.44	56.00	-23.56	QP
8 9	1.010	10.56	0.22	10.87	21.65	46.00	-24.35	Average
9	1.324	9.35	0.25	10.91	20.51	46.00	-25.49	Average
10	1.908	20.93	0.29	10.95	32.17	56.00	-23.83	QP
11	3.901	10.67	0.29	10.89	21.85	46.00	-24.15	Average
12	6.352	23.68	0.27	10.81	34.76	60.00	-25.24	QP

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.





6.2 Radiated Emission

0.2 Radiated Ellission								
Test Requirement:	FCC Part15 B Section 15.109							
Test Method:	ANSI C63.4:2009							
Test Frequency Range:	30MHz to 6000MHz							
Test site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver setup:	Frequency Detector RBW VBW Remark							
·	30MHz-1GHz Quasi-peak 120kHz 3						Quasi-peak Value	
	Above 1GHz	Above 1GHz Peak 1MHz				l z	Peak Value	
Limit:	Frequency RMS 1MHz 3N Similar Simila					dz Average Value Remark		
LIIIII.	30MHz-88M		Littie	40.0	20111)	(Quasi-peak Value	
	88MHz-216N			43.5			Quasi-peak Value	
	216MHz-960			46.0			Quasi-peak Value	
	960MHz-1G			54.0			Quasi-peak Value	
				54.0			Average Value	
	Above 1GI	ĦΖ		74.0			Peak Value	
	Below 1GHz Antenna Tower Search Antenna RF Test Receiver							
	Table Ground Plane							
	Above 1GHz						1	
	**************************************	E EUT	3m					





	,							
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter semi-anechoic camber. The table was rotated 360 degrees todetermine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower. 							
	3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.							
	4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatabletable was turned from 0 degrees to 360 degrees to find the maximum reading.							
	The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode.							
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.							
Test environment:	Temp.: 25°C Humid.: 55% Press.: 101kPa							
Measurement Record:	Uncertainty: ±4.88dB							
Test Instruments:	Refer to section 5.7 for details							
Test mode:	Refer to section 5.3 for details							
Test results:	Passed							

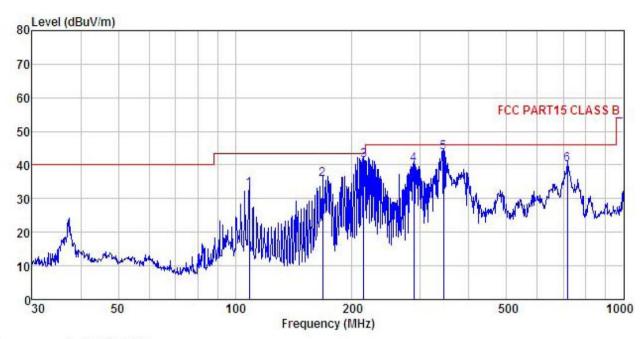




Measurement Data

Below 1GHz

Horizontal:



Site : 3m chamber

Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL

: Smart Glasses

Model : Space Lumina

Test mode : PC mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: YT

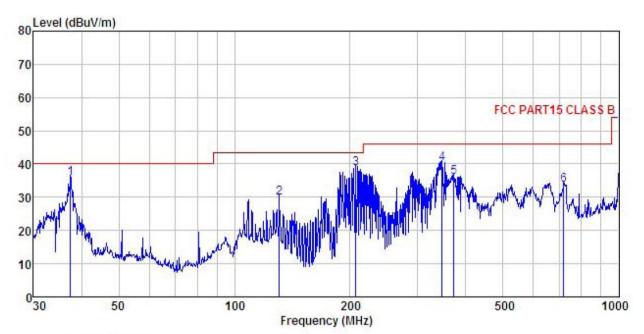
REMARK :

•	D J	A	C-11-	D		T :-:+	0	
Freq								Remark
MHz	dBu∜	<u>dB</u> /π		<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
108.647	48.90	12.39	1.03	29.47	32.85	43.50	-10.65	QP
167.824	54.68	8.90	1.34	29.07	35.85	43.50	-7.65	QP
214.514	57.57	11.03	1.46	28.74	41.32	43.50	-2.18	QP
287.990	53.90	12.84	1.74	28.47	40.01	46.00	-5.99	QP
344.386	56.17	14.20	1.92	28.55	43.74	46.00	-2.26	QP
716.682	46.73	19.00	2.96	28.60	40.09	46.00	-5.91	QP
	MHz 108.647 167.824 214.514 287.990 344.386	Freq Level MHz dBuV 108.647 48.90 167.824 54.68 214.514 57.57 287.990 53.90	Freq Level Factor MHz dBuV dB/m 108.647 48.90 12.39 167.824 54.68 8.90 214.514 57.57 11.03 287.990 53.90 12.84 344.386 56.17 14.20	Freq Level Factor Loss MHz dBuV dB/m dB 108.647 48.90 12.39 1.03 167.824 54.68 8.90 1.34 214.514 57.57 11.03 1.46 287.990 53.90 12.84 1.74 344.386 56.17 14.20 1.92	Freq Level Factor Loss Factor MHz dBuV dB/m dB dB 108.647 48.90 12.39 1.03 29.47 167.824 54.68 8.90 1.34 29.07 214.514 57.57 11.03 1.46 28.74 287.990 53.90 12.84 1.74 28.47 344.386 56.17 14.20 1.92 28.55	Freq Level Factor Loss Factor Level MHz dBuV dB/m dB dB dB dBuV/m 108.647 48.90 12.39 1.03 29.47 32.85 167.824 54.68 8.90 1.34 29.07 35.85 214.514 57.57 11.03 1.46 28.74 41.32 287.990 53.90 12.84 1.74 28.47 40.01 344.386 56.17 14.20 1.92 28.55 43.74	MHz dBuV dB/m dB dB dBuV/m dBuV/m 108.647 48.90 12.39 1.03 29.47 32.85 43.50 167.824 54.68 8.90 1.34 29.07 35.85 43.50 214.514 57.57 11.03 1.46 28.74 41.32 43.50 287.990 53.90 12.84 1.74 28.47 40.01 46.00 344.386 56.17 14.20 1.92 28.55 43.74 46.00	Freq Level Factor Loss Factor Level Line Limit MHz dBuV dB/m dB dB dBuV/m dBuV/m dB 108.647 48.90 12.39 1.03 29.47 32.85 43.50 -10.65 167.824 54.68 8.90 1.34 29.07 35.85 43.50 -7.65 214.514 57.57 11.03 1.46 28.74 41.32 43.50 -2.18 287.990 53.90 12.84 1.74 28.47 40.01 46.00 -5.99 344.386 56.17 14.20 1.92 28.55 43.74 46.00 -2.26





Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL Condition

EUT : Smart Glasses

Model : Space Lumina

Test mode : PC mode

Power Rating : AC 120V/60Hz

Environment : Temp:25.5°C Huni:55%

Test Engineer: YT

REMARK

REMARK

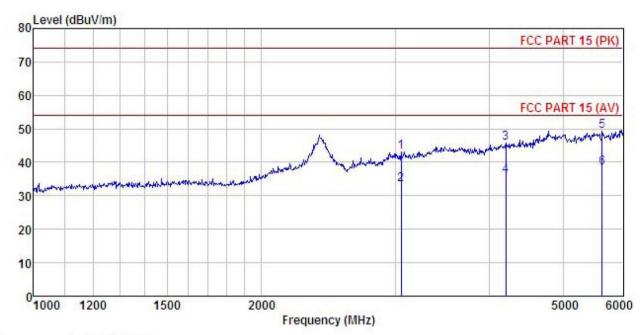
muut		Read	Antenna	Cable	Preamo		Limit	Over		
	Freq		Factor						Remark	
	MHz	dBu∀	<u>dB</u> /π		B	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>		
1	37.416	52.13	12.92	0.50	29.92	35.63	40.00	-4.37	QP	
1 2 3 4 5	130.837	48.98	8.88	1.20	29.32	29.74	43.50	-13.76	QP	
3	207.123	55.19	10.80	1.42	28.78	38.63	43.50	-4.87	QP	
4	346.809	52.52	14.22	1.93	28.55	40.12	46.00	-5.88	QP	
5	372.005	48.21	14.53	2.02	28.66	36.10	46.00	-9.90	QP	
6	719.200	40.23	19.05	2.96	28.59	33.65	46.00	-12.35	QP	





Above 1GHz

Horizontal:



Site

: 3m chamber : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL Condition

: Smart Glasses EUT Model : Space Lumina
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%

Test Engineer: YT

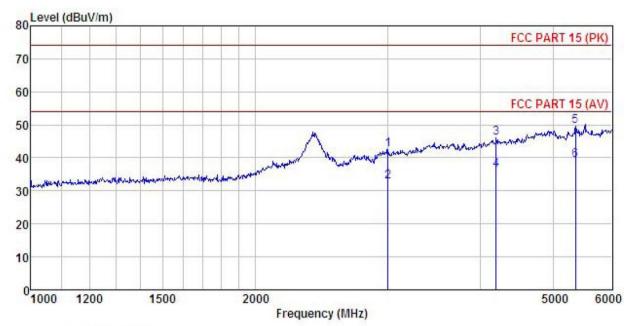
Remark

	Freq		Antenna Factor				Limit Line		Remark
-	MHz	dBu₹			<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
	3055.528	47.02	28.65	7.93	40.57			-30.97	
	3055.528	37.46	28.65	7.93	40.57	33.47	54.00	-20.53	Average
	4204.190	46.62	30.20	9.88	40.96			-28.26	
	4204.190	36.79	30.20	9.88	40.96	35.91	54.00	-18.09	Average
5	5629.205	45.93	32.11	11.52	40.41	49.15	74.00	-24.85	Peak
6	5629.205	35.26	32.11	11.52	40.41	38.48	54.00	-15.52	Average





Vertical:



Site : 3m chamber

: FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL

: FCC PART 15 (PK) 3m B
EUT : Smart Glasses
Model : Space Lumina
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25.5°C Huni:55%
Test Engineer: YT
Remark

Fred				iAntenna Cable I Factor Loss			Limit Line		Remark
2	MHz	dBu₹	<u>d</u> B/m	<u>d</u> B	<u>d</u> B	dBuV/m	dBuV/m	āB	
1	3008.330	46.62	28.53	7.84	40.52	42.47	74.00	-31.53	Peak
2 3 4	3008.330	36.95	28.53	7.84	40.52	32.80	54.00	-21.20	Average
3	4196.017	47.02	30.20	9.86	40.96	46.12	74.00	-27.88	Peak
4	4196.017	37.14	30.20	9.86	40.96	36.24	54.00	-17.76	Average
5	5361.911	46.86	31.81	11.21	40.19	49.69	74.00	-24.31	Peak
6	5361.911	36.46	31.81	11.21	40.19	39.29	54.00	-14.71	Average