

APPLICATION OF CERTIFICATION

For

TOP Victory Electronics(Taiwan)Co.,Ltd.

55"(138.7cm)LCD Monitor

Brand Name	Model Number
PHILIPS	BDL5560EL; BDL5560EL*****

FCC ID: ARSBDL5560EL

Prepared for : TOP Victory Electronics(Taiwan)Co.,Ltd.
10F., No.230,Liancheng Rd, Zhonghe City, Taipei Country,
23553, Taiwan

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Report Number : ACS- F15274
Date of Test : Sep. 20 ~ 21, 2015
Date of Report : Sep. 25, 2015

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TEST REPORT CERTIFICATION

Applicant : TOP Victory Electronics(Taiwan)Co.,Ltd.
 EUT Description : 55"(138.7cm)LCD Monitor
 FCC ID : ARSBDL5560EL

(A) Model No. & Brand Name :	Brand Name	Model Number
	PHILIPS	BDL5560EL; BDL5560*****

(B) Power Supply : AC 100-240V; 50-60Hz

(C) Test Voltage : AC 120V/60Hz

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2014

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart B Class B limits both conducted and radiated emissions. The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed of full responsibility for the accuracy and completeness of these tests. This report contains data that are not covered by the NVLAP accreditation.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This Report is made under FCC Part 2.1075. No modifications were required during testing to bring this product into compliance.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Sep.20 ~ 21, 2015 Report of date: Sep. 25, 2015

Prepared by : April Tseng
 April Tseng / Assistant

Reviewed by : Bensun Chen
 Bensun Chen / Deputy Manager

Approved & Authorized Signer :



1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	Standard	Results	Remark
Power Line Conducted Emission Test	FCC Part 15: 2014 ANSI C63.4: 2009	PASS	Minimum passing margin is 8.83dB at 3.2350MHz
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2014 ANSI C63.4: 2009	PASS	Minimum passing margin is 4.18dB at 89.840MHz
Radiated Emission Test (1-6GHz)	FCC Part 15: 2014 ANSI C63.4: 2009	PASS	Minimum passing margin is 10.09dB at 2801.48MHz

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description	: 55"(138.7cm)LCD Monitor
Model No.	: BDL5560EL; BDL5560***** The "*" could be any alphanumeric character including blank for marketing differentiation.
FCC ID	: ARSBDL5560EL
Brand Name	: PHILIPS
Max. Resolution	: 1920*1080@60Hz
Test Model	: BDL5560EL
Applicant	: TOP Victory Electronics(Taiwan)Co.,Ltd. 10F., No.230,Liancheng Rd, Zhonghe City, Taipei Country, 23553, Taiwan
Power Cord	: Unshielded, Detachable, 1.8m(3 pins)
D-Sub Cable	: Shielded, Detachable, 1.8m(Bonded two ferrite cores)
Audio Cable	: Unshielded, Detachable, 1.8m
RS232 Cable	: Shielded, Detachable, 1.8m
Remote	: Manufacturer: PHILIPS, M/N: N/A
Date of Test	: Sep.20 ~ 21, 2015
Date of Receipt	: Sep.17, 2015
Sample Type	: Prototype production

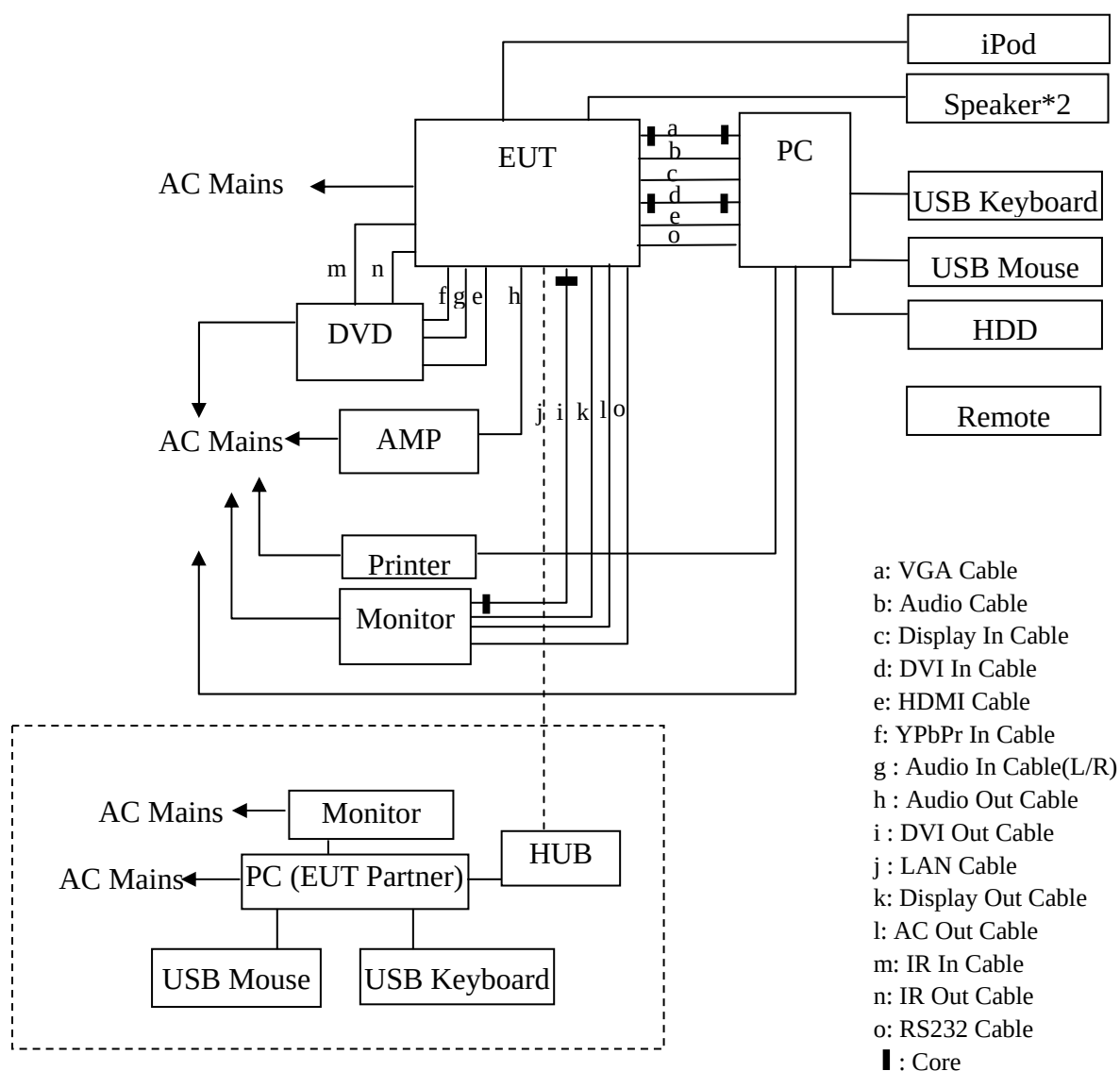
2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Personal Computer	Test PC S	DELL	Vostro 470	2SP05W1
		Power Cord: Unshielded, Detachable, 1.8m/1.5m Display Card: HD3450 (DVI+VGA+HDMI) Display Cable: Shielded, Detachable, 1.8m/1.5m DVI Cable: Shielded, Detachable, 1.8m/1.5m HDMI Cable: Shielded, Detachable, 1.8m/1.5m D-Sub Cable: Shielded, Detachable, 1.5m Audio Cable: Shielded, Detachable, 1.5m			
2.	USB Keyboard	ACS-EMC- K03R	DELL	SK-8115	CN-ODJ313-71616-711-04WJ
		Data Cable: shielded, Undetachable, 2.0m			
3.	USB Mouse	ACS-EMC-M03R	DELL	M0C5UO	512023253
		Data Cable: shielded, Undetachable, 1.8m			
4.	Monitor	ACS-EMC-LM08R	DELL	3008WFPI	CN-OG501H-7444S-06P-083L
		Power Cord: Unshielded, Detachable, 1.8m DVI Cable: Shielded, Detachable, 1.8m (with two cores) Display Cable: Shielded, Detachable, 1.8m			
5.	Printer	ACS-EMC-PT04	HP	C9079A	-
		USB Cable: shielded, Detachable, 1.5m Power Cord: Unshielded, Detachable, 1.8m Power Adaptor: HP, 0957-2119, DC Cable: Unshielded, Detachable, 1.5m			
6.	HDD	ACS-EMC-HDD01	Terasys	F12-UF	A0100215-5390018
		USB Cable: shielded, Detachable, 1.0m			
7.	DVD	ACS-EMC-DVD01	DENON	DVD-3910	4098400342E
		Audio (L/R)In Cable: Shielded, Detachable, 1.8m IR Cable: Shielded, Detachable, 1.8m Component In Cable: Shielded, Detachable, 1.8m Power Cord: Unshielded, Detachable , 1.8m			
8.	iPod	ACS-EMC-IPS1	APPLE	A1271	4H012AUKA78
		Data Cable: shielded, Undetachable, 1.0m			
9.	Power Amplifier	ACS-EMC-AMP01	SANGU	AV-805	N/A
		Data Cable: Unshielded, Undetachable 1.2m Speaker: Manufacture: Shark, M/N: HTW-615			
10.	Speaker	--	NEC	SP4020-4620	--

【PC system with transmitting】

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Personal Computer	Test PC N	DELL	Studio 540	J14XK2X
		Power Cord: Unshielded, Detachable, 1.8m LAN Cable: Unshielded, Detachable, 10m Display Card: HD3650 (DVI+Display+HDMI)			
2.	USB Keyboard	ACS-EMC- K02R	DELL	SK-8115	CN-ORH656-65890-686-007J
		Data Cable: shielded, Undetachable, 2.0m			
3.	USB Mouse	ACS-EMC-M02R	DELL	M056UO	512024264
		Data Cable: shielded, Undetachable, 1.8m			
4.	Monitor	ACS-EMC-LM04R	DELL	1907FPt	CN-009759-71618-6AP-ACPP
		Power Cord: Unshielded, Detachable, 1.8m DVI Cable: Shielded, Detachable, 1.8m			
5.	HUB	ACS-EMC-DL01	D-Link	DGS-1008D	B2C6468500621
		Data Cable: Shielded, Detachable, 1.8m Adapter: M/N: RL48-07V51000, DC Cable: Unshielded, Detachable , 1.0m			

2.3. Block Diagram of Connection between the EUT and Simulators



(EUT: 55"(138.7cm)LCD Monitor)

2.4. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block, Shenzhen
Science & Industrial Park, Nantou,
Shenzhen, Guangdong, China

3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Valid Date: Dec.30, 2017

3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Valid Date: Jul.12, 2016

EMC Lab. : Accredited by DAkkS, Germany
Registration No: D-PL-12151-01-00
Valid Date: Dec.15, 2016

: Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2016

2.5. Measurement Uncertainty (95% confidence levels, k=2)

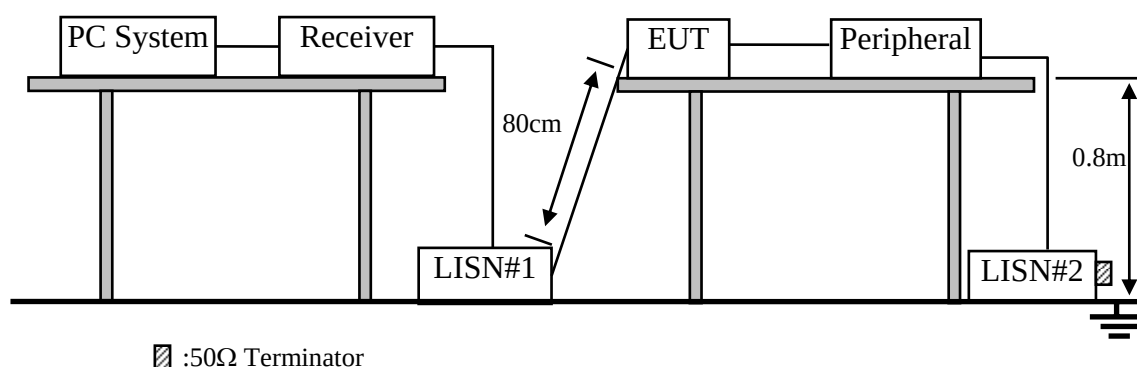
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 2 Conduction	3.4dB (30MHz~1GHz)
Uncertainty for Radiation Emission test in 10m chamber (Distance: 10m)	3.5dB (30~200MHz, Polarization: H)
	3.5dB (30~200MHz, Polarization: V)
	3.7dB (200M~1GHz, Polarization: H)
	3.6dB (200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 10m chamber (1GHz-18GHz)	5.2dB (Distance: 3m)
	5.6dB (Distance: 3m)
Uncertainty for S_{VSWR} in 10m Chamber	5.2dB (1~6GHz, Distance: 3m)
	5.4dB (6~18GHz, Distance: 3m)
Uncertainty for test site temperature and humidity and pressure	0.6℃
	3%
	1kPa

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	2# Shielding Room	AUDIX	N/A	N/A	Apr.17,15	1 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.29,14	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV4200	100041	Apr.28,15	1 Year
4.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1636-1	Apr.28,15	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.28,15	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.28,15	1 Year
7.	RF Cable	Fujikura	RG-55/U	No.1	Apr.28,15	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.28,15	1 Year
9.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	Apr.28,15	1 Year
10.	Test Software	AUDIX	E3	6.100913a	N/A	N/A

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits(Class B)

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. 55"(138.7cm)LCD Monitor (EUT)

Model Number : BDL5560EL

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Detail, in Section 2.2.

3.5.Operating Condition of EUT

3.5.1. Setup the EUT and simulator as shown as Section 3.2.

3.5.2. Turn on the power of all equipments.

3.5.3. PC system ran the Self-test program “EMC Test” by windows 7 and sent “H” Character to 55"(138.7cm)LCD Monitor (EUT) through VGA / HDMI card, the Screen of EUT displayed and filled with “H” pattern.

3.5.4. The PC system was running the program “1kHz signal playing” and sending sound to 55"(138.7cm)LCD Monitor(EUT).

3.5.5. DVD Mode: The DVD player played DVD Disk and sent “DVD 1kHz Signal Playing” image to the 55"(138.7cm)LCD Monitor (EUT).

3.5.6. Let the 55"(138.7cm)LCD Monitor (EUT) worked in test mode (YPbPr In / AV In / HDMI: 1080 / USB Mode) and measured it.

3.5.7. The other peripheral devices were driven and operated in turn during all testing.

3.6.Test Procedure

The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. #1). This provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on conducted Emission test.

The bandwidth of test receiver (R&S TEST RECEIVER ESHS10) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked. The test results are reported on Section 3.7.

3.7. Conducted Emission at Mains Terminals Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: 55"(138.7cm)LCD Monitor

Model No. : BDL5560EL

The EUT with the following test modes were tested and selected to read Q.P values and average values, all the test results are listed in next pages.

Test Date: Sep.20, 2015 Temperature: 23.2℃ Humidity: 55% Pressure:101.7kPa

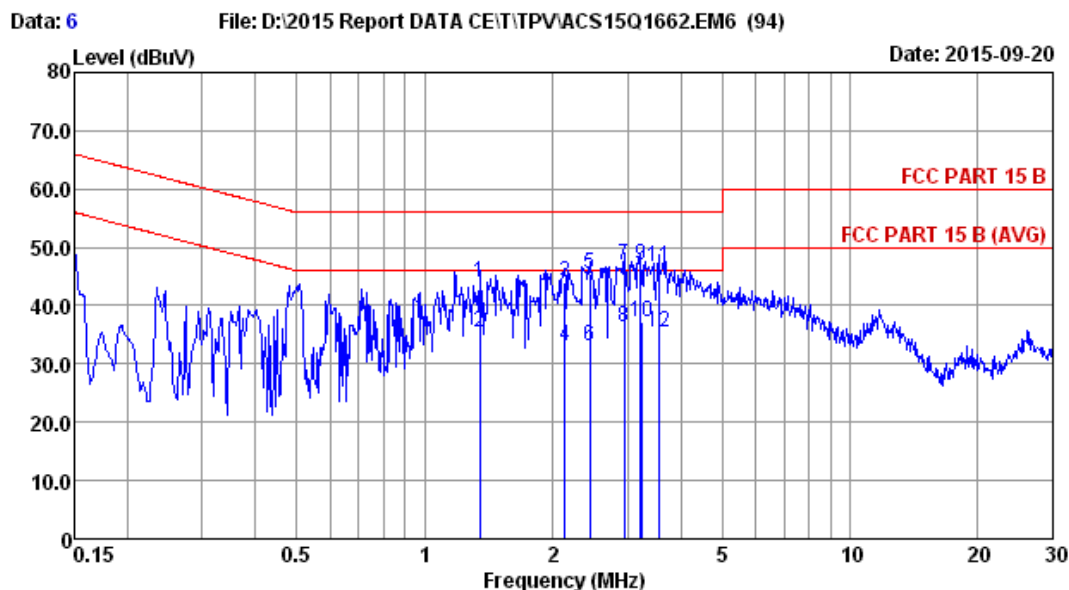
The EUT was pre-tested under following test modes, and selected test mode 3 was the worst cases to issue report.

No.	Cable Length	Test Mode	Input Port	Resolution & Frequency
1.	1.8m	PC Mode	VGA	640*480/60Hz
2.				1280*1024/75Hz
3. ※				1920*1080/60Hz
4.			VGA (Panel is vertical)	1080*1920/60Hz
5.			DVI	1920*1080/60Hz
6.			Display	
7.			HDMI 1	
8.			HDMI 2	
9.		DVD Mode	HDMI 1	1080P
10.			HDMI 2	
11.			YPbPr	
12.			AV	
13.		USB Mode	USB	
14.	1.5m	PC Mode	VGA	1920*1080/60Hz

(※ Worst test mode)

Test result is presented in the report as below:

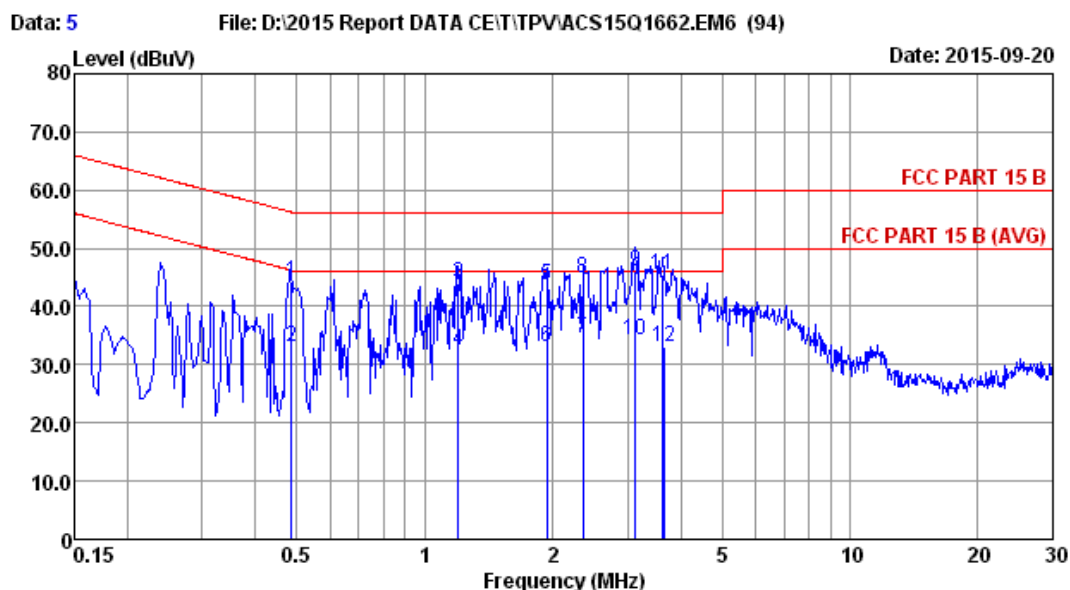
No.	Cable Length	Test Mode	Input Port	Resolution & Frequency	Reference Test Data No.	
					Line	Neutral
1.	1.8m	PC Mode	VGA	1920*1080/60Hz	# 6	# 5



Site no :2# Conduction Data No :6
Dis./Lisn :15 ENV4200 L1 LISN phase:LINE
Limit :FCC PART 15 B Pre :101.7kPa
Env./Ins. :23.2°C/55% Engineer :Nick_Huang
EUT :BDL5560EL
Power Rating :AC 120V/60Hz
Test Mode :Running "H" Pattern And 1kHz Playing
VGA:1920*1080@60Hz
Line:1.8m

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	1.3450	9.63	9.92	24.36	43.91	56.00	12.09	QP
2	1.3470	9.63	9.92	15.79	35.34	46.00	10.66	Average
3	2.1326	9.63	9.93	24.46	44.02	56.00	11.98	QP
4	2.1350	9.63	9.93	13.50	33.06	46.00	12.94	Average
5	2.4476	9.64	9.93	25.92	45.49	56.00	10.51	QP
6	2.4490	9.64	9.93	13.53	33.10	46.00	12.90	Average
7	2.9463	9.65	9.94	27.42	47.01	56.00	8.99	QP
8	2.9478	9.65	9.94	16.71	36.30	46.00	9.70	Average
9	3.2239	9.66	9.95	27.19	46.80	56.00	9.20	QP
10	3.2350	9.66	9.95	17.56	37.17	46.00	8.83	Average
11	3.5466	9.67	9.95	26.95	46.57	56.00	9.43	QP
12	3.5520	9.67	9.95	15.68	35.30	46.00	10.70	Average

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



Site no :2# Conduction Data No :5
 Dis./Lisn :15 ENV4200 N LISN phase:NEUTRAL
 Limit :FCC PART 15 B Pre :101.7kPa
 Env./Ins. :23.2°C/55% Engineer :Nick_Huang
 EUT :BDL5560EL
 Power Rating :AC 120V/60Hz
 Test Mode :Running "H" Pattern And 1kHz Playing
 VGA:1920*1080@60Hz
 Line:1.8m

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV)	Limits (dBUV)	Margin (dB)	Remark
1	0.4863	9.54	9.90	24.91	44.35	56.23	11.88	QP
2	0.4870	9.54	9.90	13.65	33.09	46.22	13.13	Average
3	1.1970	9.46	9.91	24.59	43.96	56.00	12.04	QP
4	1.1980	9.46	9.91	13.11	32.48	46.00	13.52	Average
5	1.9386	9.45	9.93	24.32	43.70	56.00	12.30	QP
6	1.9414	9.45	9.93	13.54	32.92	46.00	13.08	Average
7	2.3550	9.45	9.93	15.16	34.54	46.00	11.46	Average
8	2.3585	9.45	9.93	25.49	44.87	56.00	11.13	QP
9	3.1231	9.46	9.94	26.71	46.11	56.00	9.89	QP
10	3.1240	9.46	9.94	14.76	34.16	46.00	11.84	Average
11	3.6225	9.46	9.95	25.92	45.33	56.00	10.67	QP
12	3.6532	9.46	9.95	13.52	32.93	46.00	13.07	Average

Remarks: 1.Emission Level=LISN Factor+Cable Loss(Include 10dB pulse limit)+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION MEASUREMENT

4.1. Test Equipment

4.1.1. For frequency range 30MHz~1000MHz

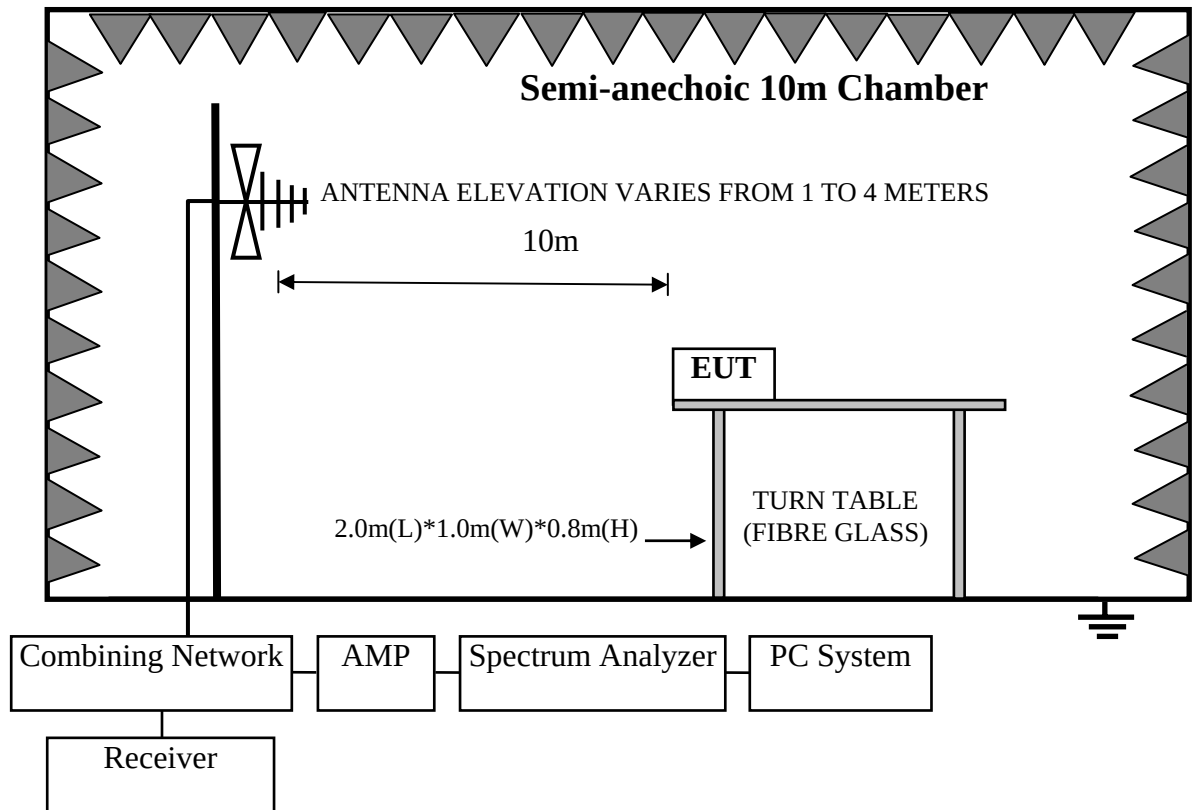
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	10m Chamber	AUDIX	N/A	N/A	Nov.25,14	1 Year
2.	EMC Analyzer	Agilent	E7403A	MY42000106	Apr.28,15	1 Year
3.	EMC Analyzer	Agilent	E7405A	MY45116588	Oct.26,14	1 Year
4.	Test Receiver	Rohde & Schwarz	ESCI	100843	Oct.29,14	1 Year
5.	Amplifier	Agilent	8447D	2944A10684	Apr.28,15	1 Year
6.	Amplifier	Agilent	8447D	2944A11140	Apr.28,15	1 Year
7.	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-493	May.06,15	1 Year
8.	Trilog-Broadband Antenna	SCHWARZBECK	VULB 9168	9168-429	Dec.17,14	1 Year
9.	RF Cable	MIYAZAKI	CFD400-LW (3.5M)	10m Chamber No.1	Apr.28,15	1 Year
10.	RF Cable	MIYAZAKI	CFD400-LW (3.5)	10m Chamber No.2	Apr.28,15	1 Year
11.	RF Cable	MIYAZAKI	CFD400-LW (22M)	10m Chamber No.5	Apr.28,15	1 Year
12.	RF Cable	MIYAZAKI	CFD400-LW (22M)	10m Chamber No.6	Apr.28,15	1 Year
13.	Coaxial Switch	Anritsu	MP59B	6201397220	Apr.28,15	1 Year
14.	Coaxial Switch	Anritsu	MP59B	6201397221	Apr.28,15	1 Year
15.	Coaxial Switch	Anritsu	MP59B	620313662	Apr.28,15	1 Year
16.	Test Software	AUDIX	E3	6.100913a	N/A	N/A

4.1.2. For frequency range 1GHz~6GHz

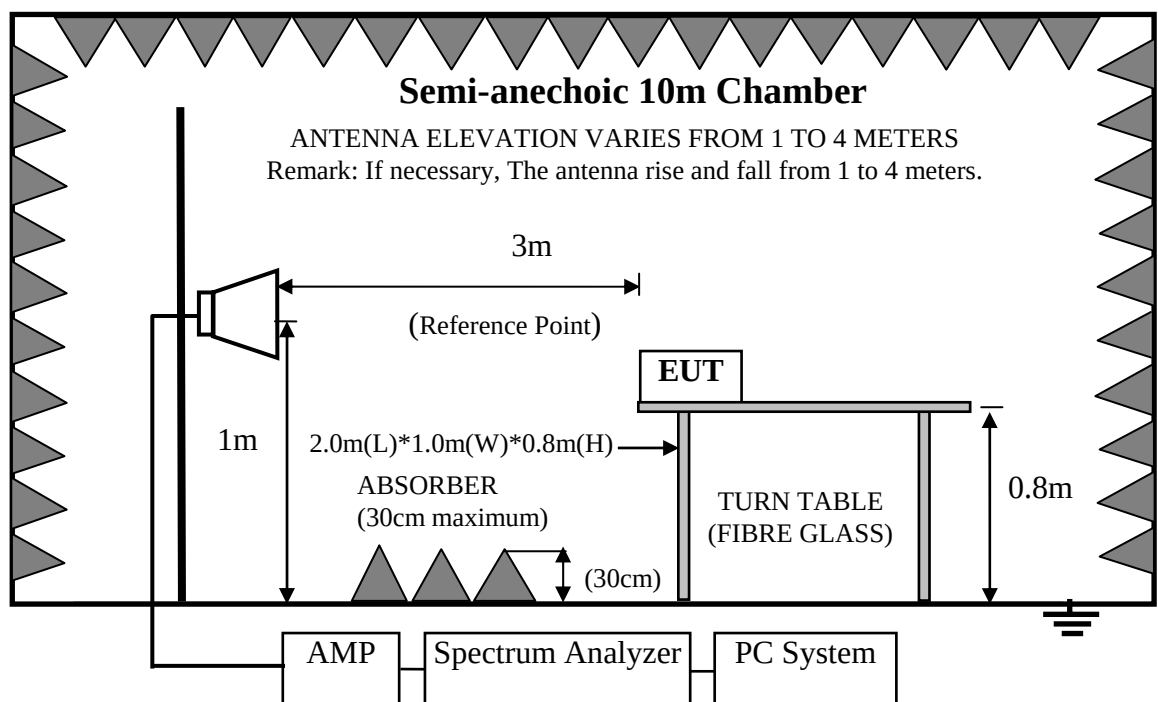
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	10m Chamber	AUDIX	N/A	N/A	Mar.22,15	1 Year
2.	EMC Analyzer	Agilent	N9030A	MY51380221	Oct.29,14	1 Year
3.	Horn Antenna	ETC	MCTD 1209	DRH15F03007	Feb.03,15	1 Year
4.	Amplifier	Agilent	83017A	MY53270085	May.25,15	1 Year
5.	RF Cable	Hubersuhner	SUCOFLEX106	505239/6+28610/2	Apr.28,15	1 Year
6.	Test Software	AUDIX	E3	6.100913a	N/A	N/A

4.2. Block Diagram of Test Setup

4.2.1. For frequency range 30MHz-1000MHz



4.2.2. For frequency range 1GHz-6GHz



4.3. Radiated Emission Limit(Class B)

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB μ V/m)
30 ~ 230	10	30
230 ~ 1000	10	37
1000~3000	3	70(Peak) 50(Average)
3000~6000	3	74(Peak) 54(Average)

- Remark: (1) Emission level = Antenna Factor + Cable Loss + Reading
Emission level = Antenna Factor - Amp Factor + Cable Loss + Reading
(above 1000MHz)
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4. EUT Configuration on Test

The configurations of EUT are listed in Section 3.4

4.5. Operating Condition of EUT

Same as Conducted Emission test that listed in Section 3.5. Except the test set up replaced as Section 4.2.

4.6. Test Procedure

The EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber. An antenna was located 10m from the EUT on an adjustable mast. A pre-scan was first performed in order to find prominent radiated emissions. For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.4: 2009 on Radiated Emission test.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESVS10) is 120 kHz.

The resolution bandwidth of the Agilent Spectrum Analyzer N9030A was set at 1MHz. (For above 1GHz)

The frequency range from 30MHz to 1000MHz was pre-scanned with a peak detector and all final readings of measurement from Test Receiver are Quasi-Peak values.

The frequency range from 1GHz to 6GHz was checked and all final readings of measurement were with Peak and Average detector, measurement distance was 3m at semi-anechoic chamber. The portion of the test volume that was obstructed by absorber placed on the floor (30cm maximum). The EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission.

4.7. Radiated Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

EUT: 55"(138.7cm)LCD Monitor

Model No. : BDL5560EL

For frequency range 30MHz~1000MHz

The EUT with the following test modes were tested and selected to read Q.P values, all the test results are listed in next pages.

Test Date: Sep.21, 2015 Temperature: 23.5℃ Humidity: 52.6% Pressure: 101.8kPa

The EUT was pre-tested under following test modes, and selected test mode 3 was the worst cases to issue report.

No.	Cable Length	Test Mode	Input Port	Resolution & Frequency
1.	1.8m	PC Mode	Display	640*480/60Hz
2.				1280*1024/75Hz
3. ※				1920*1080/60Hz
4.			Display (Panel is vertical)	1080*1920/60Hz
5.			DVI	1920*1080/60Hz
6.			VGA	
7.			HDMI 1	
8.			HDMI 2	
9.		DVD Mode	HDMI 1	1080P
10.			HDMI 2	
11.			YPbPr	
12.			AV	
13.		USB Mode	USB	
14.	1.5m	PC Mode	VGA	1920*1080/60Hz

(※ Worst test mode)

Test result is presented in the report as below:

No.	Cable Length	Test Mode	Input Port	Resolution & Frequency	Reference Test Data No.	
					Horizontal	Vertical
1.	1.8m	PC Mode	Display	1920*1080/60Hz	# 6	# 5

For frequency range 1GHz~6GHz

The EUT with below test mode were measured within anechoic chamber and the test results listed in next pages.

Test Date: Sep.20, 2015 Temperature: 24.6℃ Humidity: 52.3% Pressure: 101.8kPa

The EUT was pre-tested under following test modes, and selected test mode 3 was the worst cases to issue report.

No.	Cable Length	Test Mode	Input Port	Resolution & Frequency
1.	1.8m	PC Mode	DVI	1280*1024/75Hz
2. ※				1920*1080/60Hz
3.			DVI (Panel is vertical)	1080*1920/60Hz
4.			Display	1920*1080/60Hz
5.			VGA	
6.			HDMI 1	
7.			HDMI 2	
8.		DVD Mode	HDMI 1	1080P
9.			HDMI 2	
10.			YPbPr	
11.			AV	
12.		USB Mode	USB	
13.	1.5m	PC Mode	VGA	1920*1080/60Hz

(※ Worst test mode)

Test result is presented in the report as below

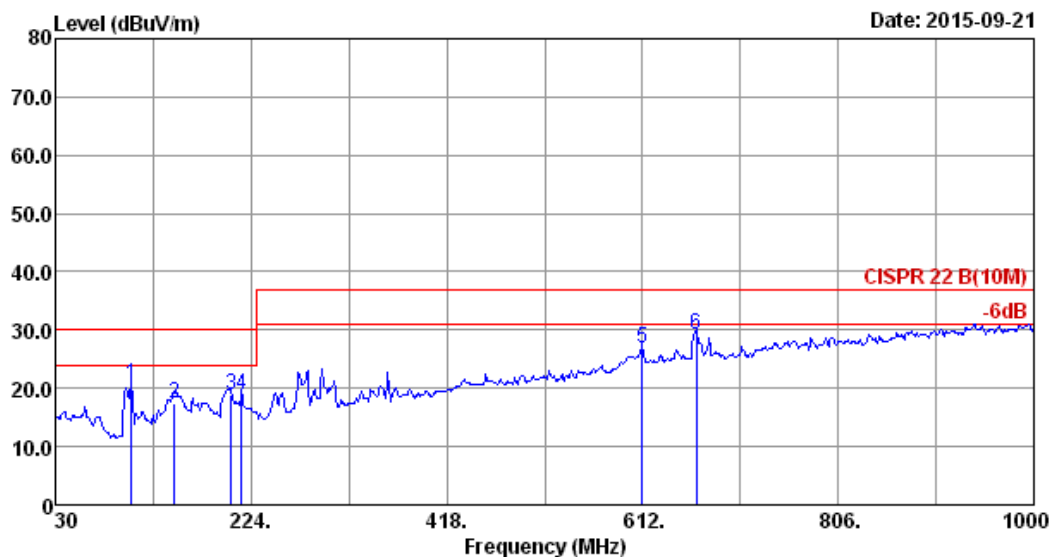
No.	Cable Length	Test Mode	Input Port	Resolution & Frequency	Reference Test Data No.	
					Horizontal	Vertical
1.	1.8m	PC Mode	DVI	1920*1080/60Hz	# 3	# 4

30MHz~1000MHz

Data: 6

File: D:\2015 Report DATA\TPV\ACS15Q1662-LEM6 (98)

Date: 2015-09-21



Site no. : 10m Chamber Data No. : 6
Dis. / Ant. : 10m 2015 9168-493 Ant. pol. : HORIZONTAL
Limit : CISPR 22 B(10M) Pre : 101.8kPa
Env. / Ins. : 23.5°C/52.6% Engineer : ELLIS
EUT : BDL5560EL
Power Rating : AC 120V/60Hz
Test Mode : Running 'H' Pattern And 1kHz Playing
Display:1920*1080@60Hz
Line:1.8m

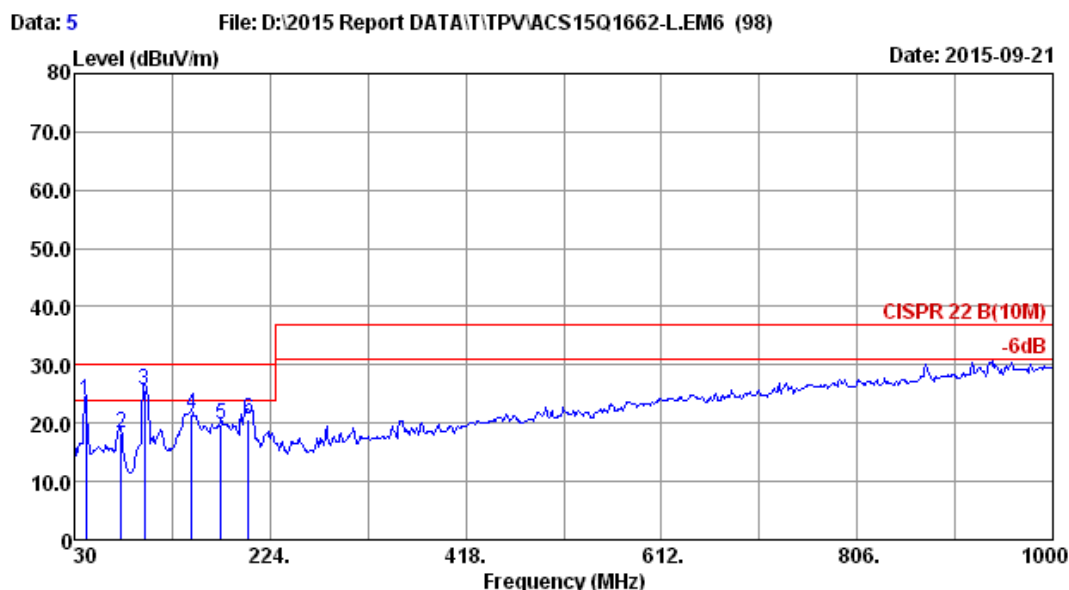
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	105.660	10.16	1.10	9.28	20.54	30.00	9.46	QP
2	148.340	13.40	1.28	2.80	17.48	30.00	12.52	QP
3	204.600	9.95	1.51	7.32	18.78	30.00	11.22	QP
4	214.300	9.86	1.55	7.43	18.84	30.00	11.16	QP
5	612.000	19.77	2.79	4.18	26.74	37.00	10.26	QP
6	665.350	20.45	2.92	5.73	29.10	37.00	7.90	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

3. The worst emission was detected at 665.350 MHz with corrected signal level 29.10dBuV/m (Antenna height1.1m; Turntable degree218°).

4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.



Site no. : 10m Chamber Data No. : 5
 Dis. / Ant. : 10m 2014 9168-429 Ant. pol. : VERTICAL
 Limit : CISPR 22 B(10M) Pre : 101.8kPa
 Env. / Ins. : 23.5°C/52.6% Engineer : ELLIS
 EUT : BDL5560EL
 Power Rating : AC 120V/60Hz
 Test Mode : Running 'H' Pattern And 1kHz Playing
 Display:1920*1080@60Hz
 Line:1.8m

	Ant.	Cable		Emission				
Freq.	Factor	Loss	Reading	Level	Limits	Margin	Remark	
(MHz)	(dB/m)	(dB)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		
1	41.640	13.57	0.47	9.87	23.91	30.00	6.09	QP
2	76.560	9.92	0.80	7.65	18.37	30.00	11.63	QP
3	99.840	9.18	1.13	15.51	25.82	30.00	4.18	QP
4	146.400	13.00	1.32	7.24	21.56	30.00	8.44	QP
5	175.500	12.57	1.44	5.70	19.71	30.00	10.29	QP
6	202.660	10.06	1.55	8.94	20.55	30.00	9.45	QP

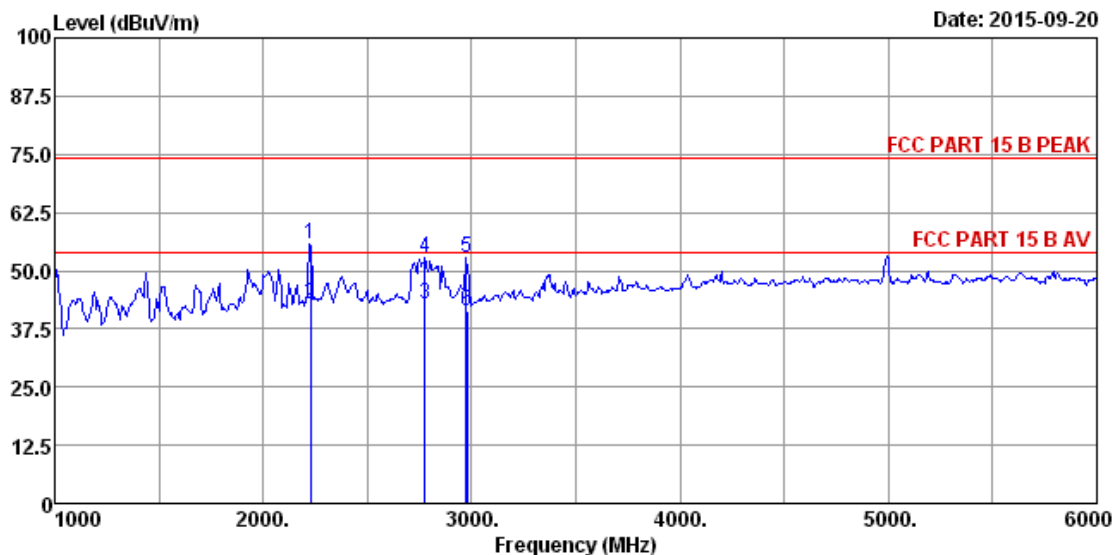
- Remarks:
1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.
 3. The worst emission was detected at 99.840 MHz with corrected signal level 25.82 dBuV/m (Antenna height 2.0m; Turntable degree 56°).
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

1GHz-6GHz

Data: 3

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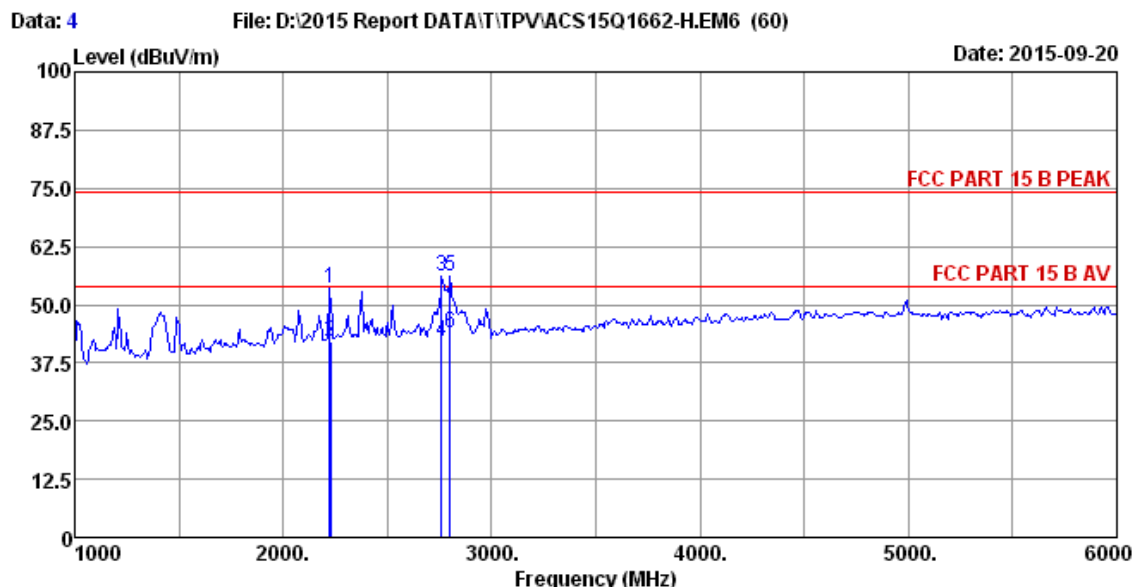
Date: 2015-09-20



Site no. : 10m Chamber Data No. : 3
Dis. / Ant. : 3m 2015 MCTD1209-3007 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK Pre : 101.8kPa
Env. / Ins. : 24.6°C/52.3% Engineer : Bery_Guo
EUT : BDL5560EL
Power Rating : AC 120V/60Hz
Test Mode : Running 'H' Pattern And 1kHz Playing
DVI:1920*1080@60Hz
Line:1.8m

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1 2225.41	27.48	2.74	34.59	60.07	55.70	74.00	18.30	Peak
2 2225.89	27.48	2.74	34.59	47.25	42.88	54.00	11.12	Average
3 2774.80	28.17	2.96	34.39	46.23	42.97	54.00	11.03	Average
4 2775.43	28.17	2.96	34.39	55.94	52.68	74.00	21.32	Peak
5 2975.45	28.29	3.11	34.32	55.78	52.86	74.00	21.14	Peak
6 2976.54	28.29	3.11	34.32	44.25	41.33	54.00	12.67	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp
Factor(Peak/Average).
2. The emission levels that are 20dB below the official limit
are not reported.



Site no. : 10m Chamber Data No. : 4
 Dis. / Ant. : 3m 2015 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK Pre : 101.8kPa
 Env. / Ins. : 24.6°C/52.3% Engineer : Bery_Guo
 EUT : BDL5560EL
 Power Rating : AC 120V/60Hz
 Test Mode : Running 'H' Pattern And 1kHz Playing
 DVI:1920*1080@60Hz
 Line:1.8m

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2225.24	27.48	2.74	34.59	57.90	53.53	74.00	20.47	Peak
2	2226.48	27.48	2.74	34.59	46.55	42.18	54.00	11.82	Average
3	2760.80	28.16	2.96	34.40	59.24	55.96	74.00	18.04	Peak
4	2761.42	28.16	2.96	34.40	45.45	42.17	54.00	11.83	Average
5	2800.97	28.19	2.98	34.38	59.25	56.04	74.00	17.96	Peak
6	2801.48	28.19	2.98	34.38	47.12	43.91	54.00	10.09	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading-Amp Factor (Peak/Average).
 2. The emission levels that are 20dB below the official limit are not reported.