



APPLICATION OF CERTIFICATION
For

TTE Technology Inc.

LCD TV

Brand Name	Model Number
TCL	LE40FHDE3010; LE40FHDE3011; LE40FHDE5510

FCC ID: W8ULE40FHDE3010

Prepared for : TTE Technology Inc.
1255 Graphite Drive, Corona, CA 92881, U.S.A.

Prepared By: Audix Technology (Shenzhen) Co., Ltd.
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Report Number : ACS- F13055
Date of Test : Feb.20~22, 2013
Date of Report : Mar.14, 2013

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TEST REPORT CERTIFICATION

Applicant : TTE Technology Inc.
Manufacturer : TCL King Electrical Appliances (Huizhou) Co., Ltd.
EUT Description : LCD TV
FCC ID : W8ULE40FHDE3010

(A) Model No. & : Brand Name	Brand Name	Model Number
	TCL	LE40FHDE3010; LE40FHDE3011; LE40FHDE5510

(B) Power Supply : AC 120V/60Hz

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

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2011, ANSI C63.4: 2009
ICES-003 Issue 4 February 2004.

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 : Feb.20~22,2013 Report of date: Mar.14, 2013

Prepared by :

Julia Zhu
Julia Zhu/ Assistant

Reviewed by :

Sun Zeng
Sun Zeng/ Supervisor

AUDIX 信華科技(深圳)有限公司
Audix Technology (Shenzhen) Co., Ltd.
EMC 部門報告專用章

Stamp only for EMC Dept. Report

Signature: Ken Lu 3/15/13

Approved & Authorized Signer :

Ken Lu / Manager

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	Remarks
Power Line Conducted Emission Test	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 14.48 dB at 12.988MHz
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 3.49dB at 34.230MHz
Radiated Emission Test (1-2GHz)	FCC Part 15: 2011 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 13.12dB at 1188.245MHz

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description : LCD TV

Model Number : LE40FHDE3010; LE40FHDE3011; LE40FHDE5510
Only the Model name ,appearance color and shell is different

FCC ID : W8ULE40FHDE3010

Applicant : TTE Technology Inc.
1255 Graphite Drive, Corona, CA 92881, U.S.A.

Manufacturer : TCL King Electrical Appliances (Huizhou) Co., Ltd.
Section 19, Zhongkai Development Zone for New & High-Level
Tech Industries, Huizhou, Guangdong Province, China, 516006.

FREQUENCIES USED AND GENERATED WITHIN DEVICE		
X54M1	45-OSC54M-0Y1CR	
LVDS CLOCK	78MHZ	
IF	6MHz	
DC-DC	U302->385KHz	
DDR	390MHz	
AMP	384KHz	

Power Cord : Unshielded, Undetachable, 2.0m

Date of Test : Feb.20~22, 2013

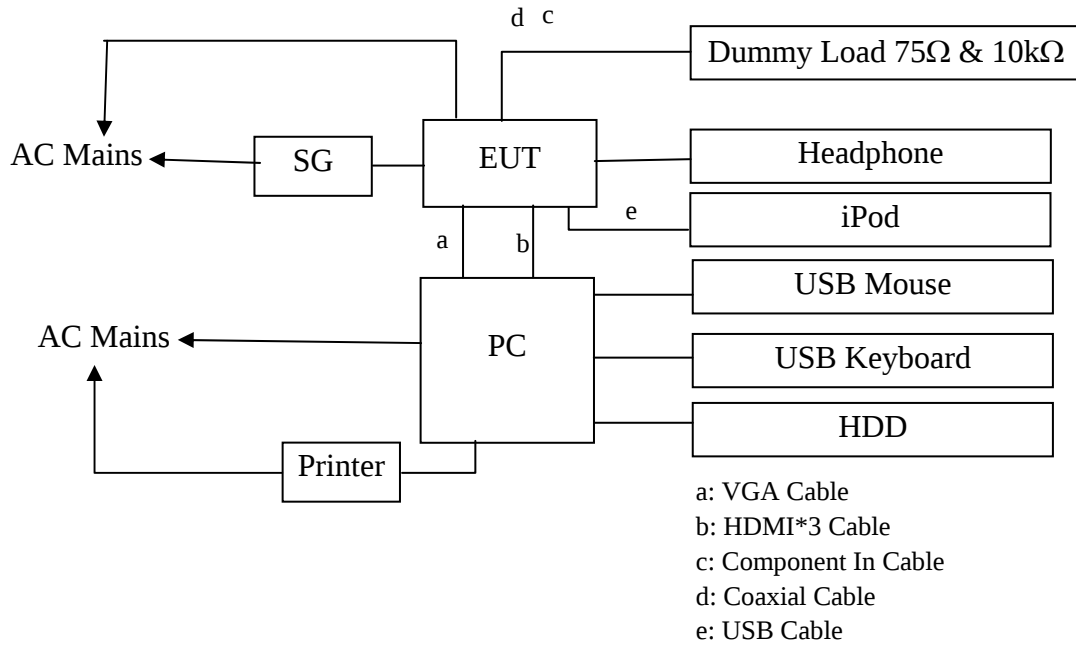
Date of Receipt : Feb.19 ,2013

Sample Type : Prototype production

2.2. Tested Supporting System Details

	Description	ACS No.	Manufacturer	Model	Serial Number	Approved type
1.	Personal Computer	Test PC M	DELL	Studio 540	224XK2X	☒ FCC DoC ☒ BSMI ID:R33002
		Power Cord: Unshielded, Detachable, 1.8m Display Card: HD3450 (DVI+VGA+HDMI)				
2.	USB Keyboard	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-7161 6-6BB-049J	☒ FCC DoC ☒ BSMI ID: T3A002
		Data Cable: shielded, Undetachable, 2.0m				
3.	Headphone	ACS-EMC-EP03	OVANN	OV880V	N/A	☐ FCC ID ☐ BSMI ID
		Cable: Shielded, Undetachabled, 4.0m				
4.	Printer	ACS-EMC-PT04	HP	C9079A	N/A	☒ FCC DoC ☒ BSMI ID: R33001
		USB Cable: Shielded, Detachabled, 1.8m Power Cord: Unshielded, Detachabled, 1.8m Power Adapter: HP, M/N: 0957-2119, BSMI ID: R33030, DC Cable: Unshielded, Detachabled, 1.5m				
5.	USB Mouse	ACS-EMC-M04R	DELL	M056UO	512024282	☒ FCC DoC ☒ BSMI ID: R41108
		Data Cable: shielded, Undetachable, 1.8m				
6.	iPod nano	ACS-EMC-IP03	APPLE	A1199	YM711H3LVQ5	☒ FCC DoC ☒ BSMI ID: R33057
		Data Cable: Shielded, Detachabled, 1.0m				
7.	HDD	ACS-EMC-HDD03	Terasys	F12-UF	A0100215-53900 30	☒ FCC DoC ☒ BSMI ID: 4912A022
		USB Cable: Shielded, Detachable, 1.8m				
8.	Dummy Load (10KΩ &75Ω)	Component In Cable: Unshielded, Detachabled, 1.5m AV Cable: Unshielded, Detachable, 1.5m Coaxial Cable: Unshielded, Detachable, 1.5m				
9.	D-Sub Cable: Shielded, Detachable, 1.5m HDMI Cable: Shielded, Detachable, 1.8m Coaxial Cable: Unshielded, Detachable, 1.5m					

2.3. Block diagram of connection between the EUT and simulators



(EUT: LCD TV)

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: Feb.22, 2015
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Valid Date: Oct.31, 2015
EMC Lab.	:	Certificated by DAkkS, Germany Registration No: D-PL-12151-01-01 Valid Date: Feb.01, 2014
		Accredited by NVLAP, USA NVLAP Code: 200372-0 Valid Date: Mar.31, 2013

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

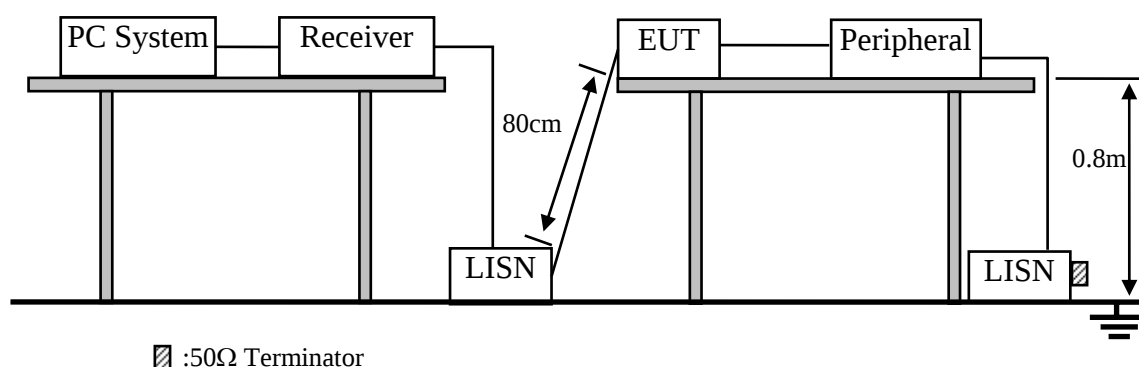
Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	3.06 dB
Uncertainty for Radiation Emission test in 3m chamber	3.6 dB(30~200MHz, Polarize: H)
	3.8 dB(30~200MHz, Polarize: V)
	4.2 dB(200M~1GHz, Polarize: H)
	3.8 dB(200M~1GHz, Polarize: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz-18GHz)	3.1dB(Distance: 3m Polarize: V)
	3.7 dB(Distance: 3m Polarize: H)
Uncertainty for test site temperature and humidity	3%
	0.6℃

3. POWER LINE CONDUCTED EMISSION MEASUREMENT

3.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	838693/001	Oct.31, 12	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	Oct.31, 12	1 Year
3.	L.I.S.N.#3	Kyoritsu	KNW-242C	8-1920-1	May.08, 12	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 12	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 12	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 12	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 12	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 12	1 Year

3.2. Block Diagram of Test Setup



▨ :50Ω Terminator

3.3. Power Line Conducted Emission Test Limits

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. LCD TV (EUT)

Model Number : LE40FHDE3010

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 equipment.
- 3.5.3. PC system ran the Self-test program “EMC Test. exe” by windows XP and sent “H” Character to LCD TV (EUT) , the Screen of EUT displayed and filled with “H” pattern, use white letters on a black ground, set the contrast control to maximum, set the brightness control to maximum and measure it.
- 3.5.4. 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.#3). 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 result 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.)

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.

EUT: LCD TV

Model No. : LE40FHDE3010

Test Date: Feb.22, 2013

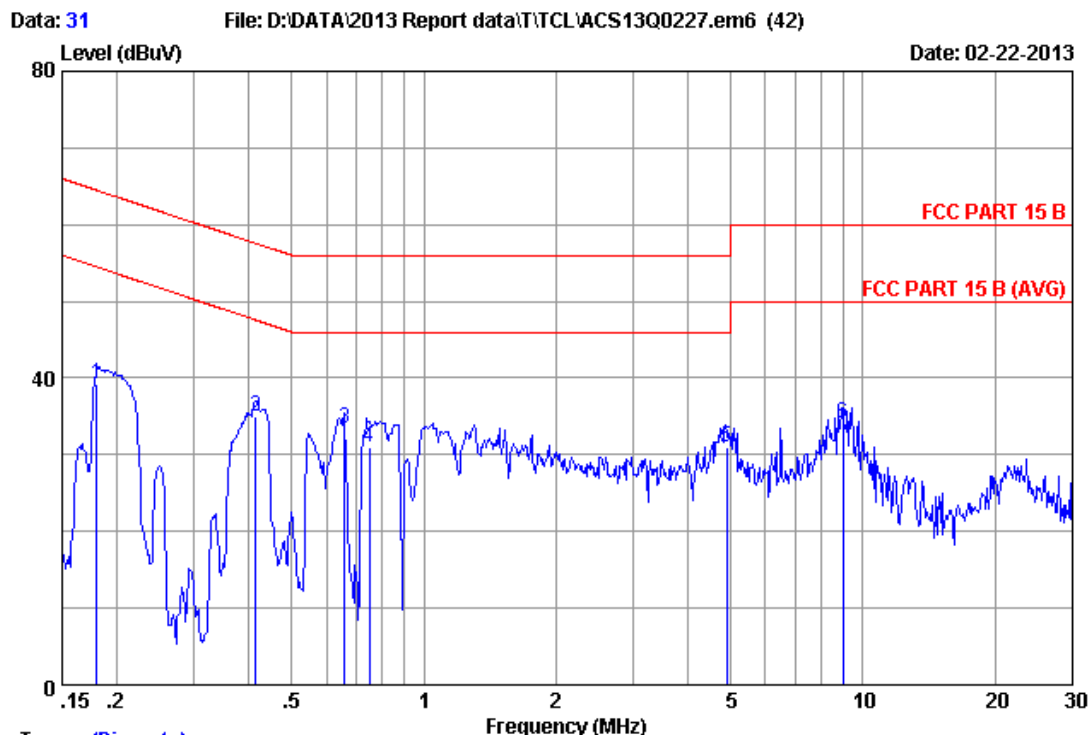
Temperature: 24.5℃

Humidity: 56%

The details of test modes are as follows :

No.	Test Mode	Input Port	Resolution & Frequency	Reference Test Data No.	
				Line	Neutral
1.	PC Mode	VGA	640*480 @60Hz	#31	#32
2.			1024*768 @ 60Hz	#34	#33
3.			1920*1080@60Hz	#35	#36
4.		HDMI 1	1920*1080@60Hz	#38	#37
5.		HDMI 2	1920*1080@60Hz	#39	#40
6. ※		HDMI 3	1920*1080@60Hz	#42	#41

(※ Worst test mode)

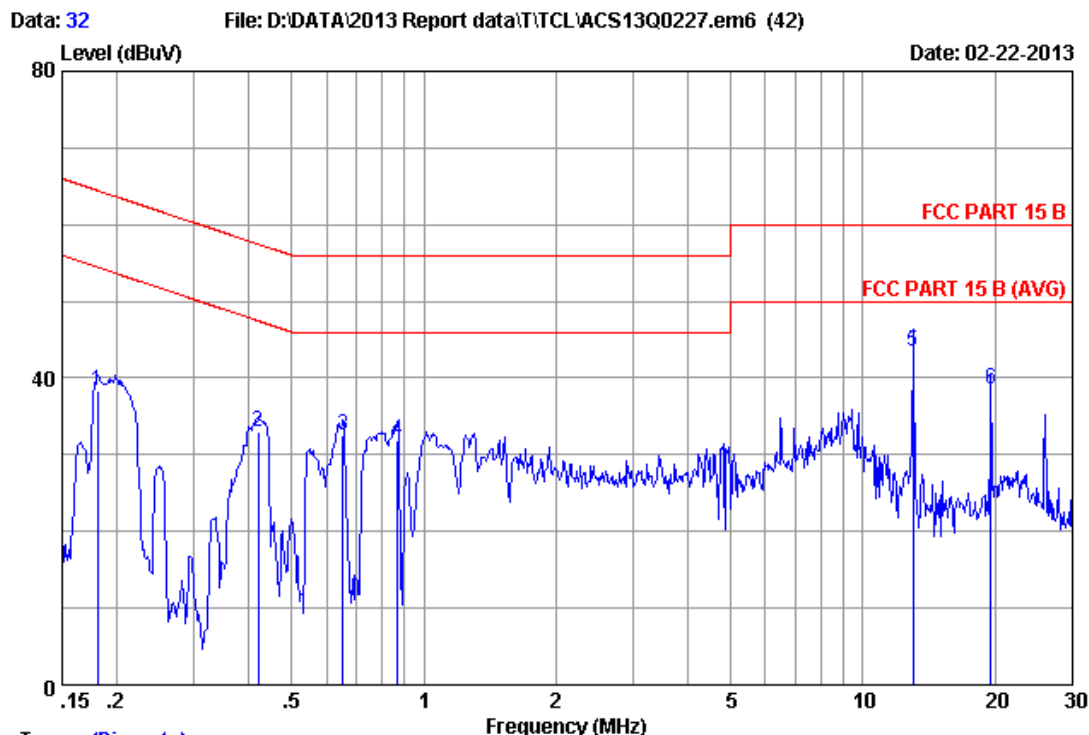


Trace: (Discrete)

Site no : 1#conduction Data No : 31
 Dis./Ant. : ** 2012 ESH2-25 LINE
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 VGA: 640*480@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17961	0.19	0.14	38.80	39.13	64.50	25.37	QP
2	0.41485	0.19	0.15	34.74	35.08	57.55	22.47	QP
3	0.66127	0.20	0.15	33.04	33.39	56.00	22.61	QP
4	0.75094	0.20	0.15	30.67	31.02	56.00	24.98	QP
5	4.900	0.31	0.15	30.59	31.05	56.00	24.95	QP
6	9.011	0.43	0.16	33.60	34.19	60.00	25.81	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+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.

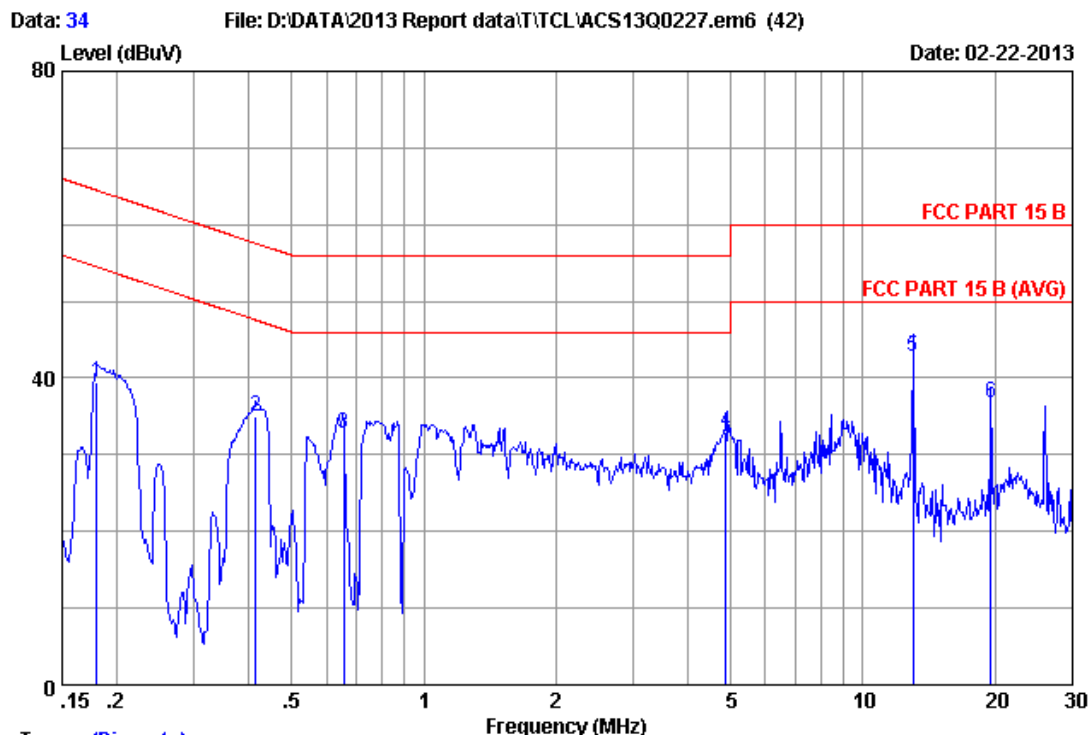


Trace: (Discrete)

Site no : 1#conduction Data No : 32
 Dis./Ant. : ** 2012 ESH2-Z5 NEUTRAL
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 VGA: 640*480@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18056	0.21	0.14	37.98	38.33	64.46	26.13	QP
2	0.41927	0.23	0.15	32.64	33.02	57.46	24.44	QP
3	0.65430	0.24	0.15	32.05	32.44	56.00	23.56	QP
4	0.87103	0.24	0.14	31.44	31.82	56.00	24.18	QP
5	12.988	0.58	0.18	42.63	43.39	60.00	16.61	QP
6	19.532	0.95	0.24	37.41	38.60	60.00	21.40	QP

Remarks: 1. Emission Level = LISN Factor + Cable Loss + 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.

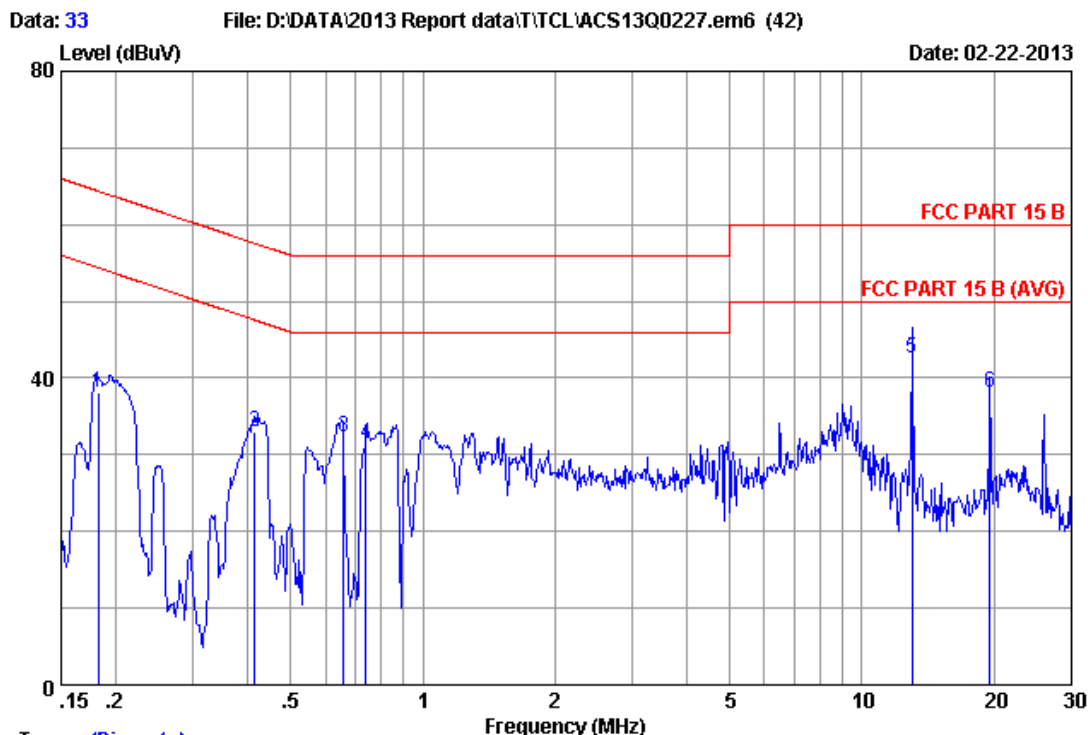


Trace: (Discrete)

Site no : 1#conduction Data No : 34
 Dis./Ant. : ** 2012 ESH2-25 LINE
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 VGA: 1024*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17961	0.19	0.14	39.13	39.46	64.50	25.04	QP
2	0.41485	0.19	0.15	34.56	34.90	57.55	22.65	QP
3	0.65778	0.20	0.15	32.44	32.79	56.00	23.21	QP
4	4.874	0.31	0.15	32.59	33.05	56.00	22.95	QP
5	12.988	0.62	0.18	41.96	42.76	60.00	17.24	QP
6	19.532	1.12	0.24	35.31	36.67	60.00	23.33	QP

Remarks: 1. Emission Level = LISN Factor + Cable Loss + 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.

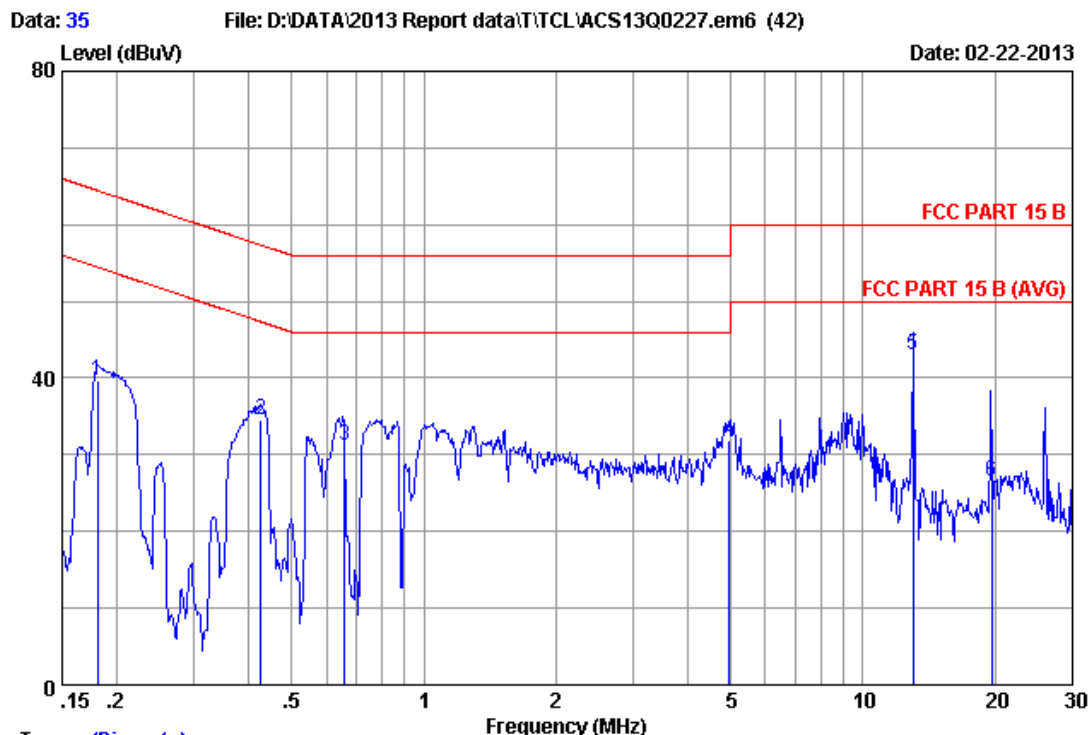


Trace: (Discrete)

Site no : 1#conduction Data No : 33
 Dis./Ant. : ** 2012 ESH2-Z5 NEUTRAL
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 VGA: 1024*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18249	0.21	0.14	37.81	38.16	64.37	26.21	QP
2	0.41485	0.23	0.15	32.54	32.92	57.55	24.63	QP
3	0.66127	0.24	0.15	31.82	32.21	56.00	23.79	QP
4	0.74302	0.24	0.15	30.94	31.33	56.00	24.67	QP
5	12.988	0.58	0.18	41.90	42.66	60.00	17.34	QP
6	19.532	0.95	0.24	36.81	38.00	60.00	22.00	QP

Remarks: 1. Emission Level = LISN Factor + Cable Loss + 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.

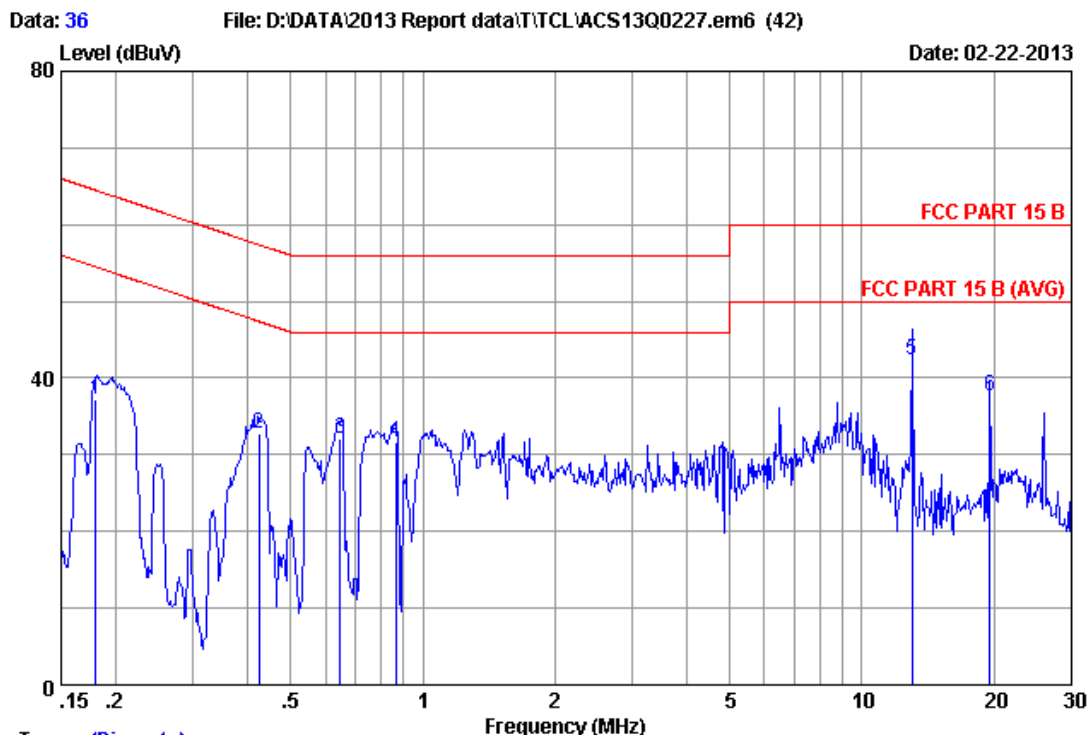


Trace: (Discrete)

Site no : 1#conduction Data No : 35
 Dis./Ant. : ** 2012 ESH2-25 LINE
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 VGA: 1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18056	0.19	0.14	39.29	39.62	64.46	24.84	QP
2	0.42598	0.19	0.15	34.10	34.44	57.33	22.89	QP
3	0.66127	0.20	0.15	30.94	31.29	56.00	24.71	QP
4	4.952	0.31	0.15	31.38	31.84	56.00	24.16	QP
5	12.988	0.62	0.18	42.20	43.00	60.00	17.00	QP
6	19.635	1.13	0.25	25.16	26.54	60.00	33.46	QP

Remarks: 1. Emission Level = LISN Factor + Cable Loss + 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.

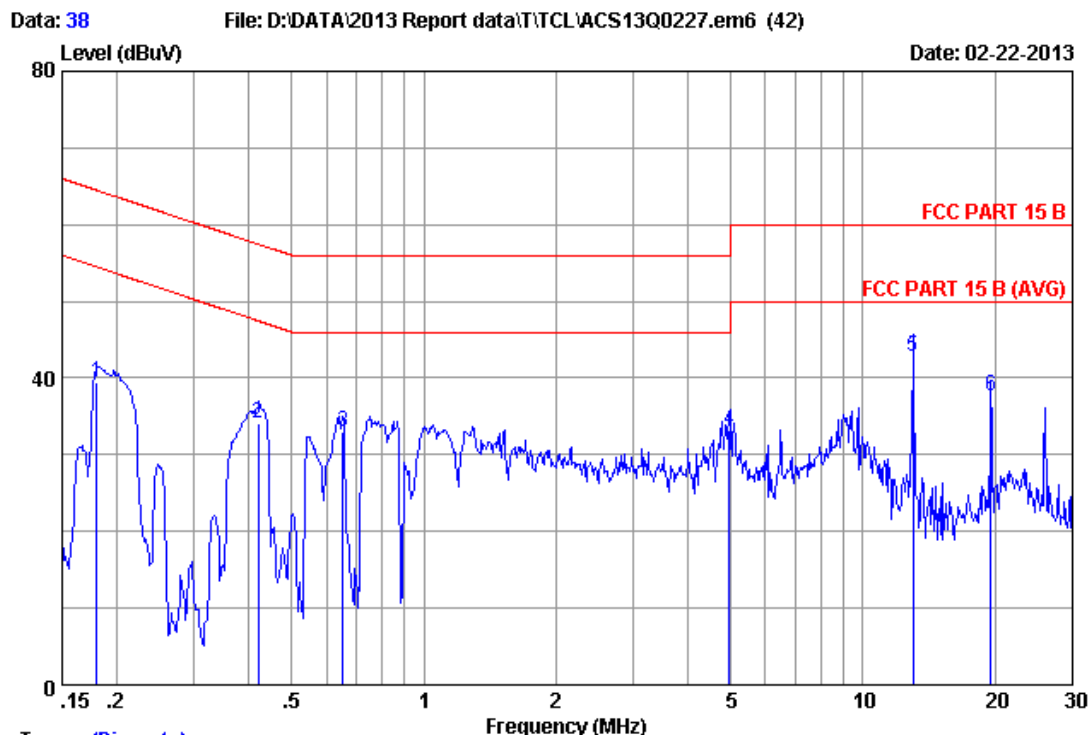


Trace: (Discrete)

Site no : 1#conduction Data No : 36
 Dis./Ant. : ** 2012 ESH2-Z5 NEUTRAL
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 VGA: 1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17961	0.21	0.14	36.85	37.20	64.50	27.30	QP
2	0.42373	0.23	0.15	32.34	32.72	57.37	24.65	QP
3	0.64740	0.24	0.15	31.80	32.19	56.00	23.81	QP
4	0.86643	0.24	0.14	31.23	31.61	56.00	24.39	QP
5	12.988	0.58	0.18	41.65	42.41	60.00	17.59	QP
6	19.532	0.95	0.24	36.40	37.59	60.00	22.41	QP

Remarks: 1. Emission Level = LISN Factor + Cable Loss + 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.

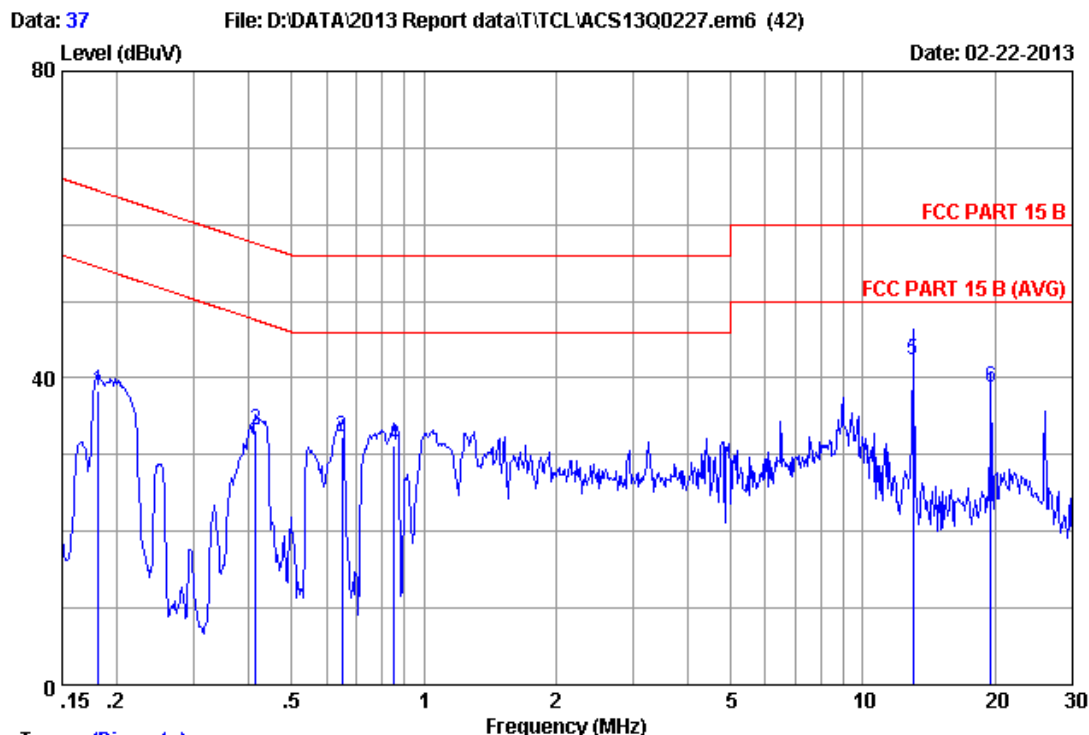


Trace: (Discrete)

Site no : 1#conduction Data No : 38
 Dis./Ant. : ** 2012 ESH2-25 LINE
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 HDMI 1:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17961	0.19	0.14	39.10	39.43	64.50	25.07	QP
2	0.41927	0.19	0.15	33.80	34.14	57.46	23.32	QP
3	0.65430	0.20	0.15	32.69	33.04	56.00	22.96	QP
4	4.952	0.31	0.15	32.70	33.16	56.00	22.84	QP
5	12.988	0.62	0.18	41.94	42.74	60.00	17.26	QP
6	19.532	1.12	0.24	36.41	37.77	60.00	22.23	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+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.

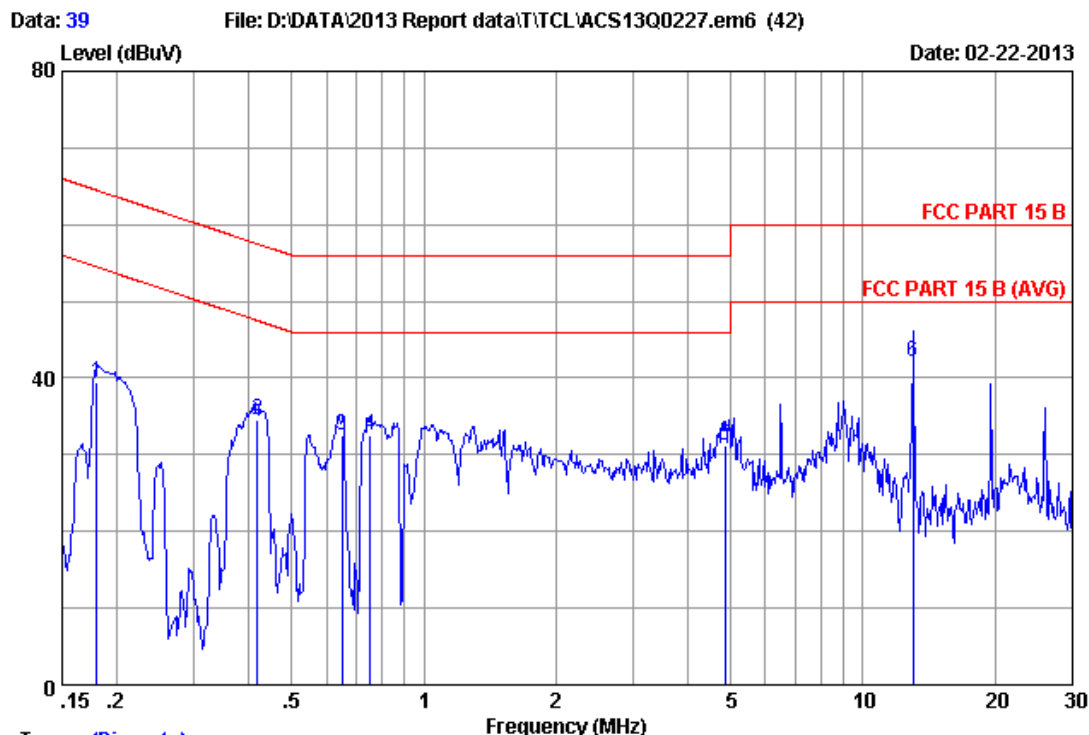


Trace: (Discrete)

Site no : 1#conduction Data No : 37
 Dis./Ant. : ** 2012 ESH2-Z5 NEUTRAL
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 HDMI 1:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18152	0.21	0.14	38.06	38.41	64.42	26.01	QP
2	0.41485	0.23	0.15	32.84	33.22	57.55	24.33	QP
3	0.65084	0.24	0.15	31.83	32.22	56.00	23.78	QP
4	0.85729	0.24	0.14	30.91	31.29	56.00	24.71	QP
5	12.988	0.58	0.18	41.65	42.41	60.00	17.59	QP
6	19.532	0.95	0.24	37.57	38.76	60.00	21.24	QP

Remarks: 1. Emission Level = LISN Factor + Cable Loss + 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.

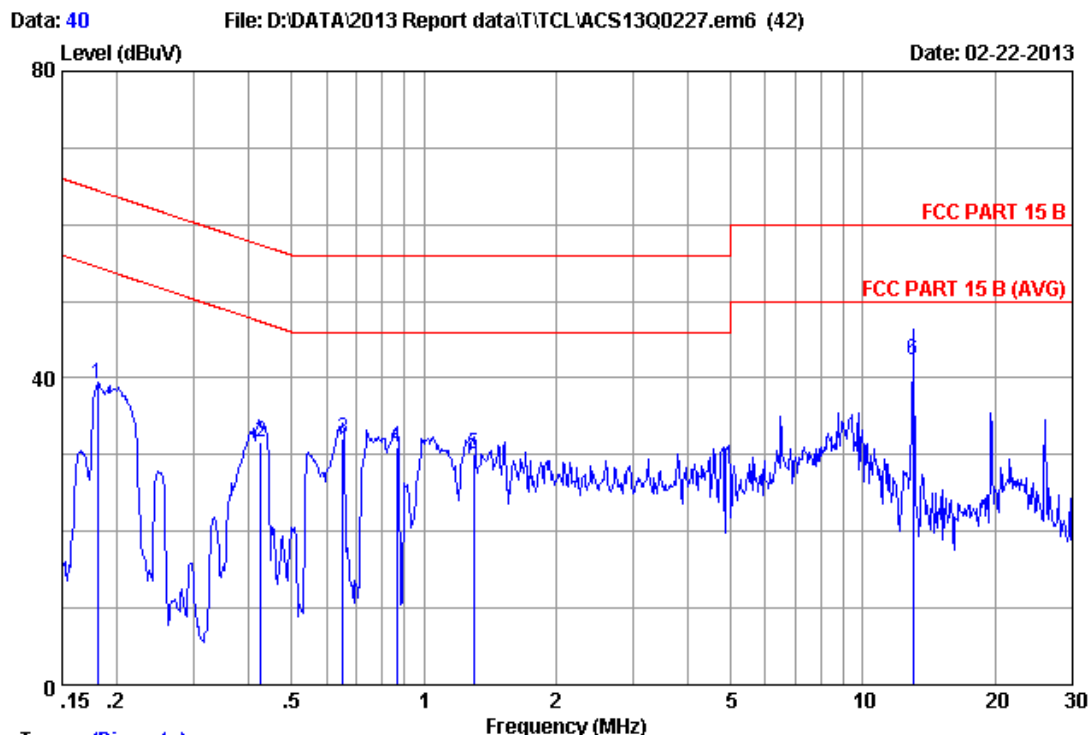


Trace: (Discrete)

Site no : 1#conduction Data No : 39
 Dis./Ant. : ** 2012 ESH2-Z5 LINE
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 HDMI 2:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17961	0.19	0.14	39.15	39.48	64.50	25.02	QP
2	0.41705	0.19	0.15	34.30	34.64	57.51	22.87	QP
3	0.65084	0.20	0.15	32.19	32.54	56.00	23.46	QP
4	0.75493	0.20	0.15	32.19	32.54	56.00	23.46	QP
5	4.848	0.31	0.15	30.68	31.14	56.00	24.86	QP
6	12.988	0.62	0.18	41.34	42.14	60.00	17.86	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+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.

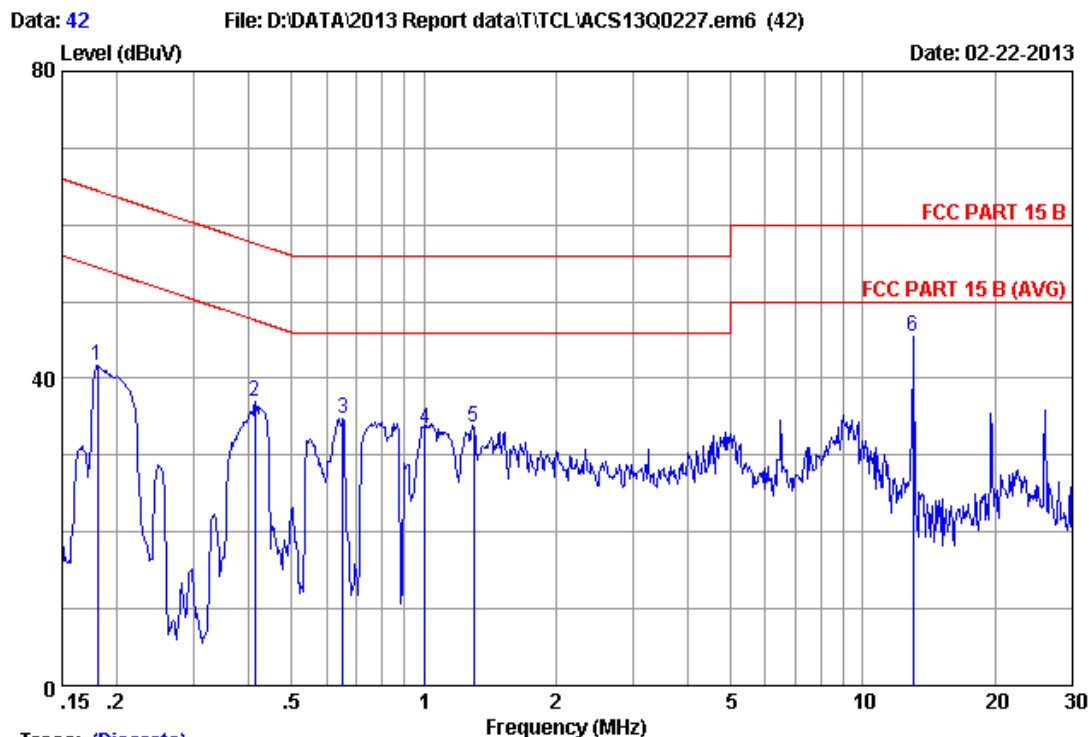


Trace: (Discrete)

Site no : 1#conduction Data No : 40
 Dis./Ant. : ** 2012 ESH2-Z5 NEUTRAL
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 HDMI 2:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18056	0.21	0.14	38.90	39.25	64.46	25.21	QP
2	0.42598	0.23	0.15	31.28	31.66	57.33	25.67	QP
3	0.65430	0.24	0.15	31.61	32.00	56.00	24.00	QP
4	0.86643	0.24	0.14	30.69	31.07	56.00	24.93	QP
5	1.296	0.26	0.14	29.75	30.15	56.00	25.85	QP
6	12.988	0.58	0.18	41.65	42.41	60.00	17.59	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+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.

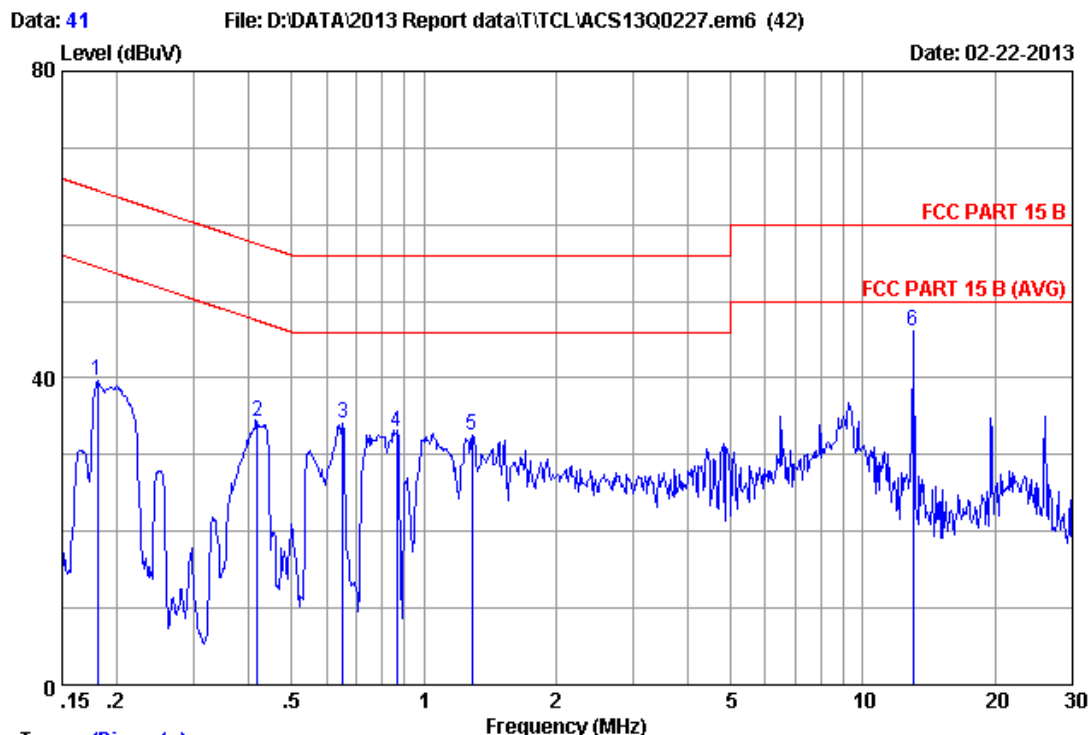


Trace: (Discrete)

Site no : 1#conduction Data No : 42
 Dis./Ant. : ** 2012 ESH2-Z5 LINE
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 HDMI 3:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18056	0.19	0.14	41.37	41.70	64.46	22.76	QP
2	0.41266	0.19	0.15	36.76	37.10	57.59	20.49	QP
3	0.65430	0.20	0.15	34.49	34.84	56.00	21.16	QP
4	1.005	0.21	0.14	33.06	33.41	56.00	22.59	QP
5	1.296	0.22	0.14	33.27	33.63	56.00	22.37	QP
6	12.988	0.62	0.18	44.72	45.52	60.00	14.48	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+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.



Trace: (Discrete)

Site no : 1#conduction Data No : 41
 Dis./Ant. : ** 2012 ESH2-Z5 NEUTRAL
 Limit : FCC PART 15 B
 Env./Ins. : 24.5°C/56% Engineer : Alan_Chen
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : PC Mode
 : Running "H" Pattern And 1KHz Playing
 HDMI 3:1920*1080@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18056	0.21	0.14	39.24	39.59	64.46	24.87	QP
2	0.41705	0.23	0.15	33.90	34.28	57.51	23.23	QP
3	0.65430	0.24	0.15	33.67	34.06	56.00	21.94	QP
4	0.86643	0.24	0.14	32.59	32.97	56.00	23.03	QP
5	1.289	0.25	0.14	32.09	32.48	56.00	23.52	QP
6	12.988	0.58	0.18	45.31	46.07	60.00	13.93	QP

Remarks: 1. Emission Level=LISN Factor+Cable Loss+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

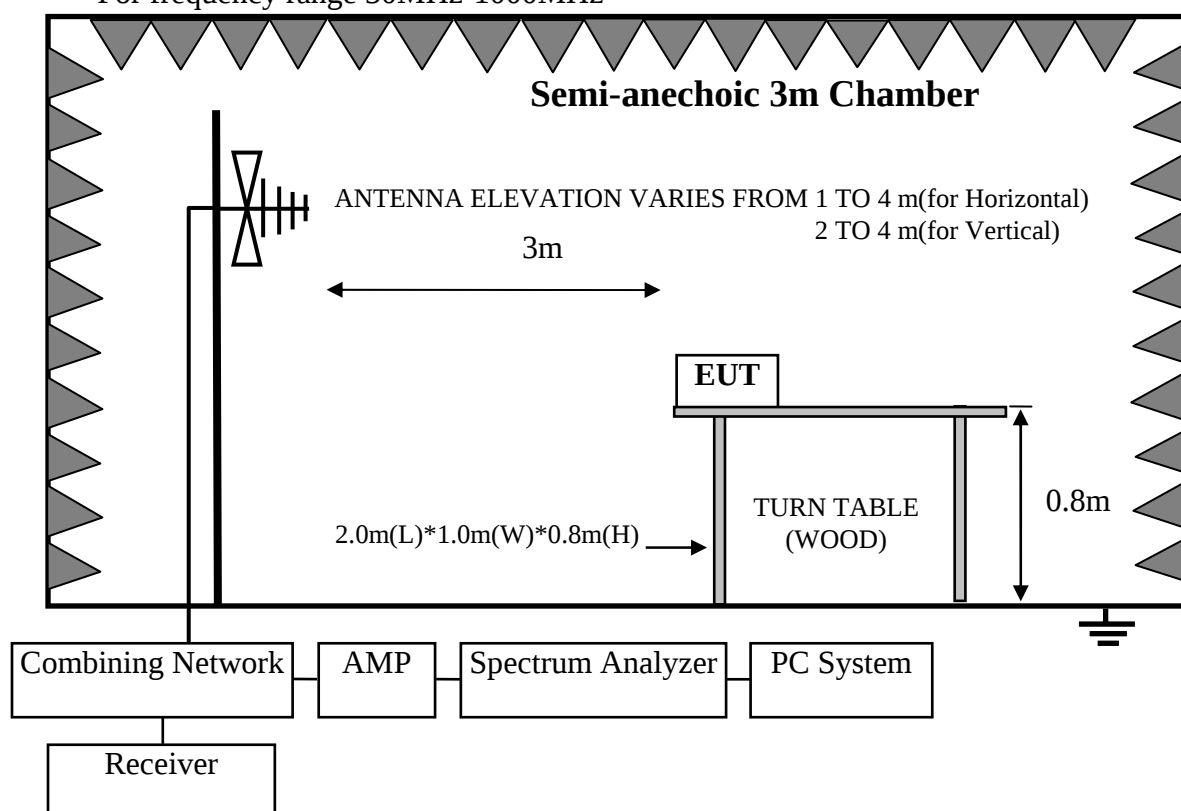
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	3#Chamber	AUDIX	N/A	N/A	Nov.24,12	1 Year
2	EMI Spectrum	Agilent	E4407B	MY41440292	May.08, 12	1 Year
3	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.08, 12	1 Year
4	Amplifier	HP	8447D	2648A04738	May.08, 12	1 Year
5	Bilog Antenna	Schaffner	CBL6111C	2598	Dec.26, 10	2.0 Year
6	RF Cable	MIYAZAKI	CFD400-NL	3# Chamber No.1	May.08, 12	1 Year
7	Coaxial Switch	Anritsu	MP59B	M74389	May.08, 12	1 Year

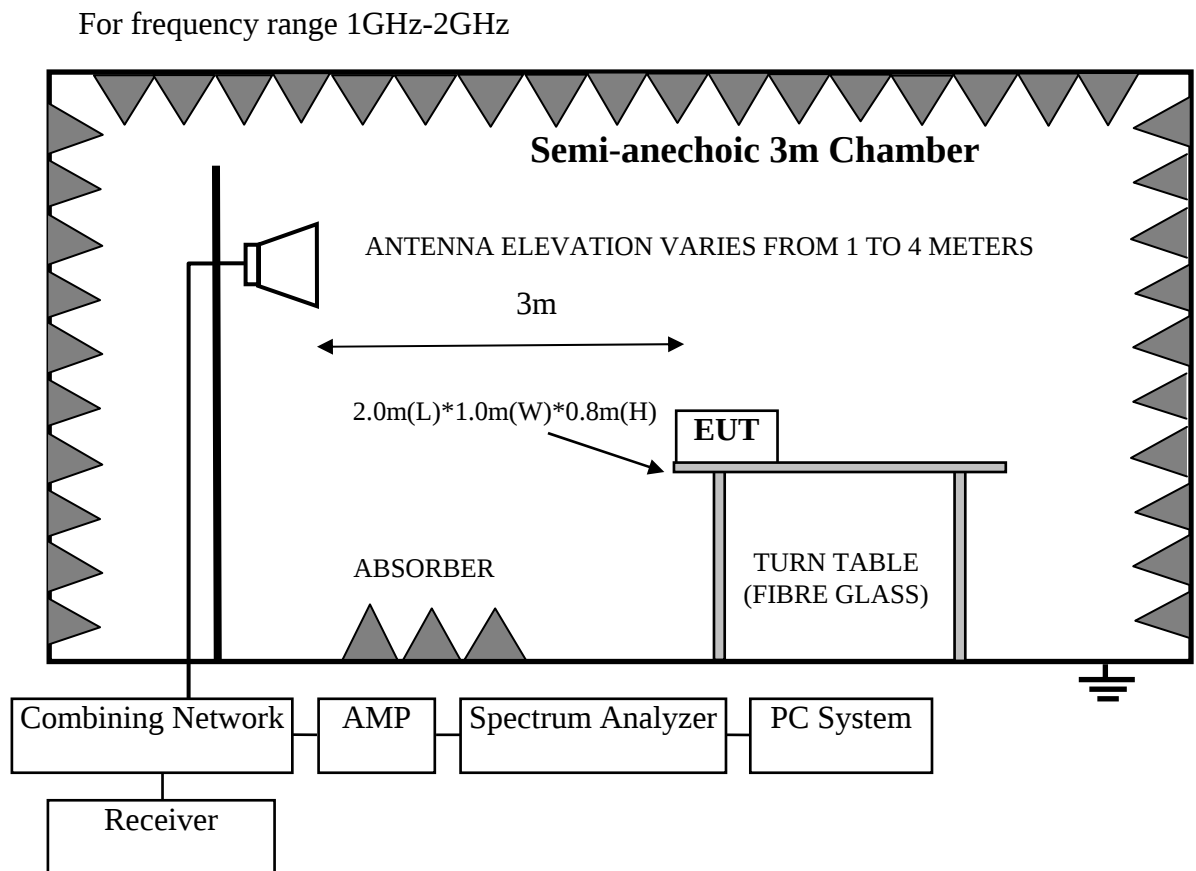
4.1.2. For frequency range 1GHz~2GHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Spectrum Analyzer	Agilent	E4407B	MY41440292	May.08, 12	1 Year
2	Horn Antenna	EMCO	3115	9510-4580	June.05, 12	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 12	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 12	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 12	1 Year

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz





4.3.Radiated Emission Limit

Frequency MHz	Distance (Meters)	Field Strengths Limits dB(μV)/m
30 ~ 88	3	40.0
88 ~ 216	3	43.5
216 ~ 960	3	46.0
960 ~ 1000	3	54.0
Above 1000	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 is listed in Section 3.5. except the test set up replaced by 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 3m 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 of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz.

4.7. Radiated Disturbance Test Results

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

EUT: LCD TV Model No. : LE40FHDE3010

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: Feb.22,2013 Temperature: 24℃ Humidity: 56%

The details of test modes are as follows :

No.	Test Mode	Input Port	Resolution & Frequency	Reference Test Data No.	
				Horizontal	Vertical
1.	PC Mode	VGA	640*480 @60Hz	#5	#6
2.			1024*768 @ 60Hz	#4	#3
3. ※			1920*1080@60Hz	#2	#1
4.		HDMI 1	1920*1080@60Hz	#8	#7
5.		HDMI 2	1920*1080@60Hz	#9	#10
6.		HDMI 3	1920*1080@60Hz	#12	#11

(※ Worst test mode)

For frequency range 1GHz~2GHz

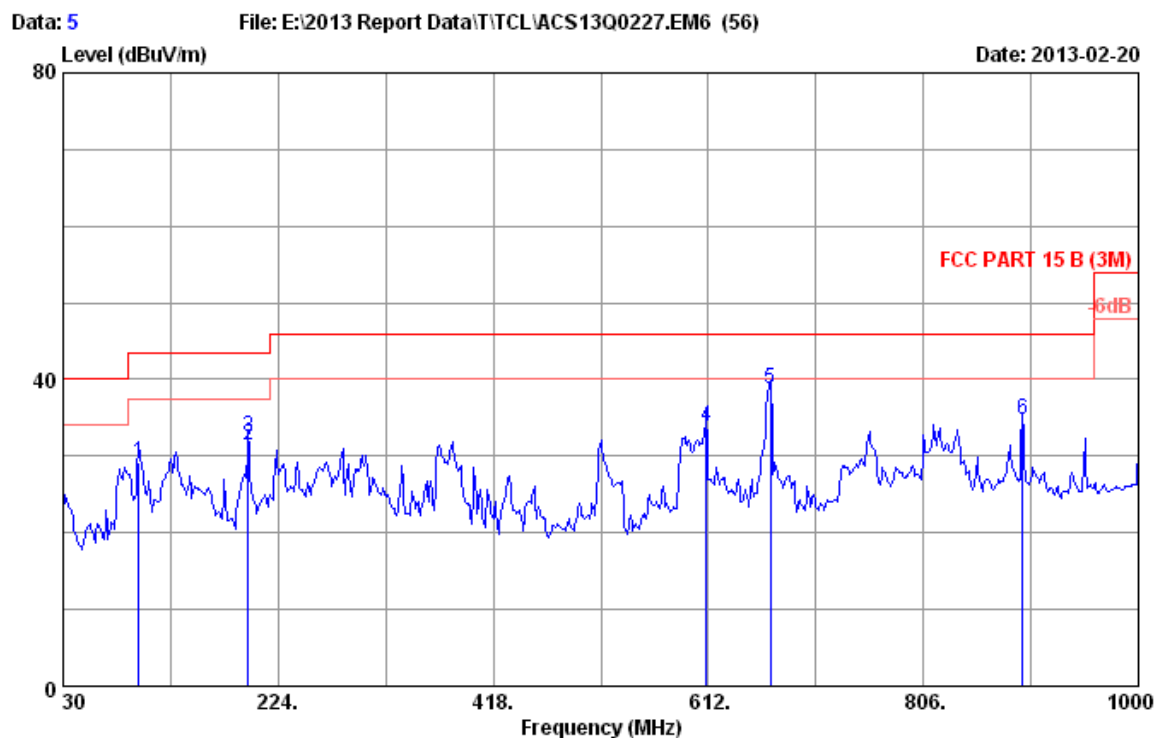
The EUT with below test mode were measured within Anechoic Chamber and the test results listed in next pages

Note: For all the emissions above 1GHz, the peak measured level comply with peak limit, so the average level were deemed to comply with average limit.

Test Date: Feb.20,2013 Temperature: 24℃ Humidity: 56%

NO.	Test Mode	Resolution & Frequency	Reference Test Data No.	
			Horizontal	Vertical
1.	VGA	1920*1080 @60Hz	#43	#44
2.	HDMI 1	1920*1080 @60Hz	#46	#45
3.	HDMI 2	1920*1080 @60Hz	#47	#48
4.	HDMI 3	1920*1080 @60Hz	#50	#49

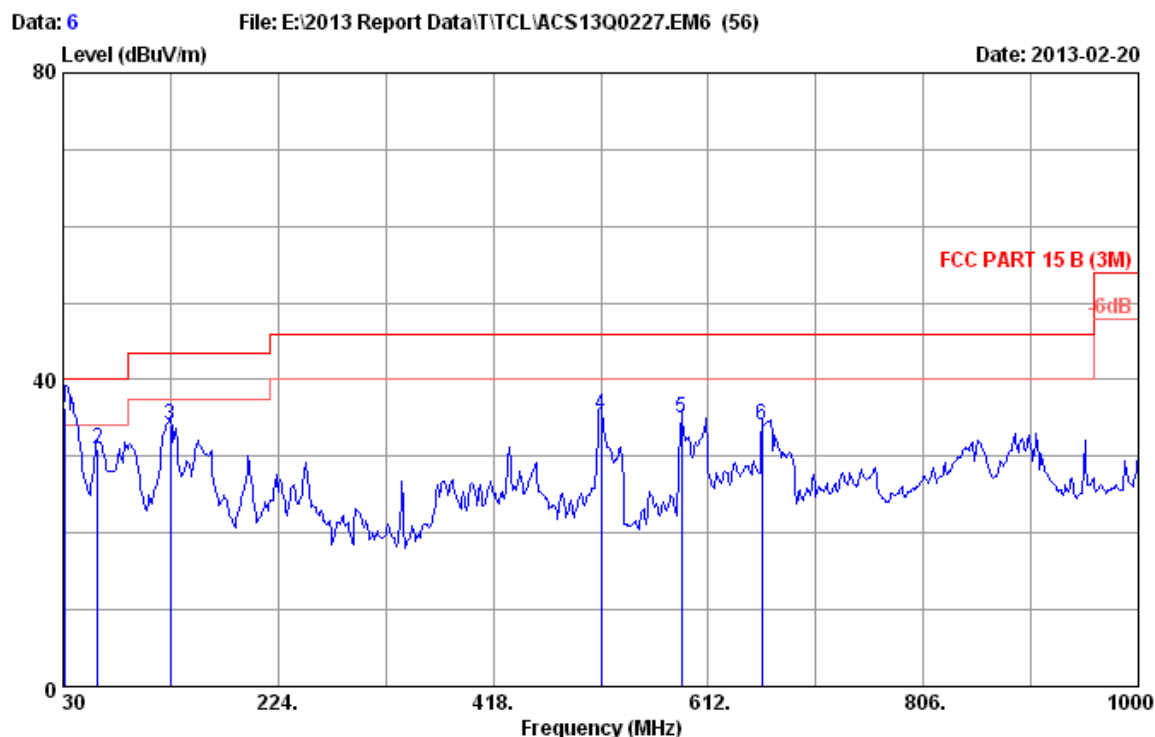
30MHz~1000MHz



Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B (3M)
Env. / Ins. : 24°C/56% Engineer : Even_Deng
EUT : LCD TV M/N:LE40FHDE3010
Power rating : AC 120V/60Hz
Test Mode : Running "H" Pattern And 1KHz Playing
VGA:640*480@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.00	0.85	18.29	29.14	43.50	14.36	QP
2	196.840	10.08	1.06	20.36	31.50	43.50	12.00	QP
3	196.840	10.08	1.06	21.36	32.50	43.50	11.00	QP
4	610.060	18.51	2.15	13.23	33.89	46.00	12.11	QP
5	668.260	19.32	2.32	17.17	38.81	46.00	7.19	QP
6	895.240	21.58	2.81	10.29	34.68	46.00	11.32	QP

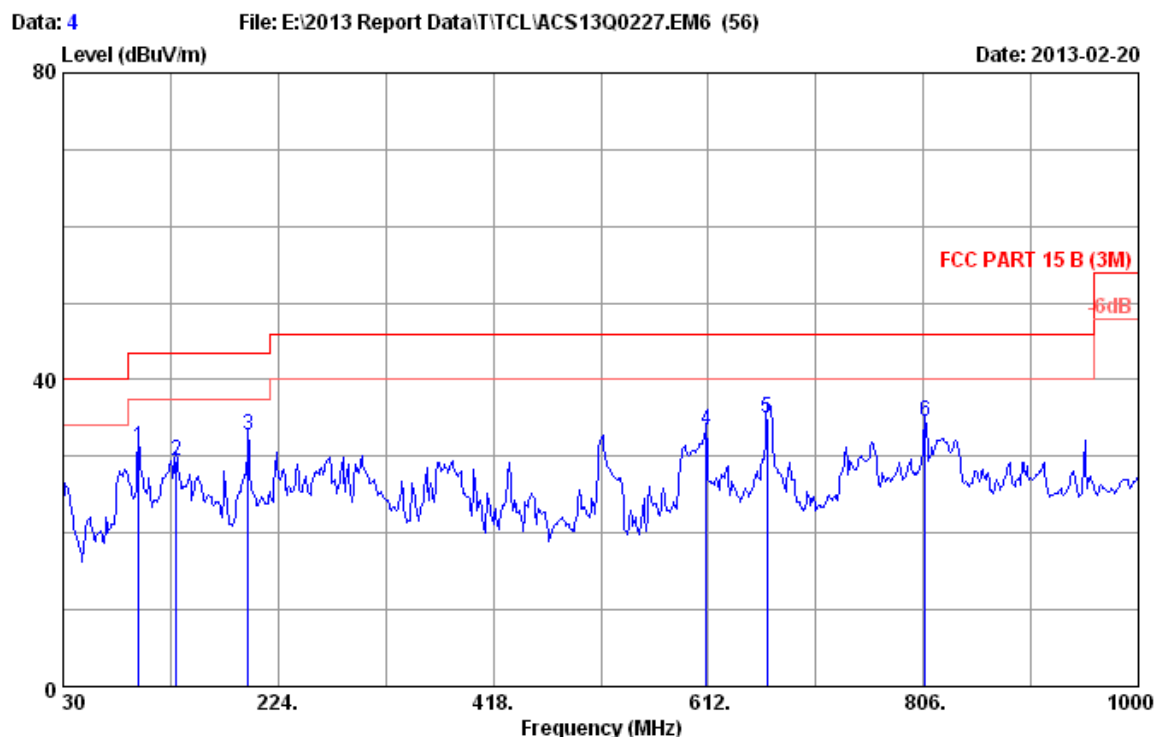
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 6
 Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 VGA:640*480@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	13.29	0.45	22.55	36.29	40.00	3.71	QP
2	61.040	12.55	0.66	17.81	31.02	40.00	8.98	QP
3	127.000	12.62	0.91	20.65	34.18	43.50	9.32	QP
4	515.000	16.78	1.87	16.86	35.51	46.00	10.49	QP
5	587.750	18.07	2.09	14.87	35.03	46.00	10.97	QP
6	660.500	19.23	2.30	12.55	34.08	46.00	11.92	QP

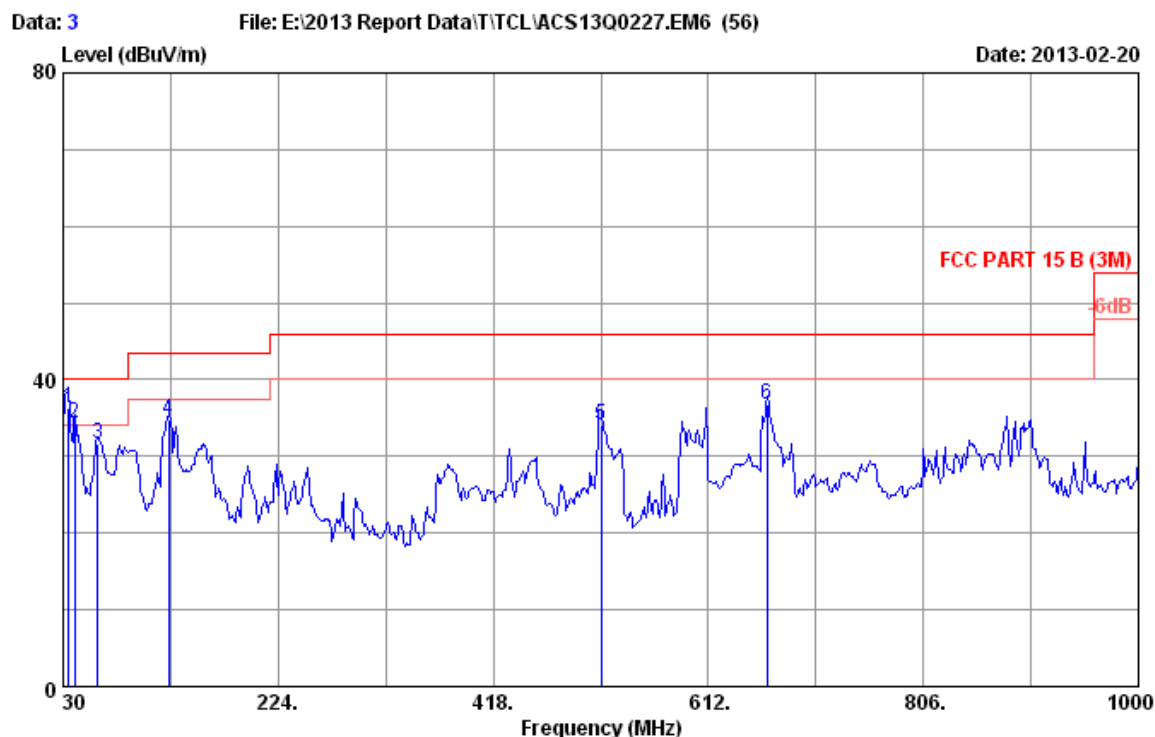
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 VGA:1024*768@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.00	0.85	20.43	31.28	43.50	12.22	QP
2	131.850	12.92	0.91	15.67	29.50	43.50	14.00	QP
3	196.840	10.08	1.06	21.60	32.74	43.50	10.76	QP
4	610.060	18.51	2.15	12.67	33.33	46.00	12.67	QP
5	665.350	19.28	2.32	13.35	34.95	46.00	11.05	QP
6	807.940	20.75	2.71	11.01	34.47	46.00	11.53	QP

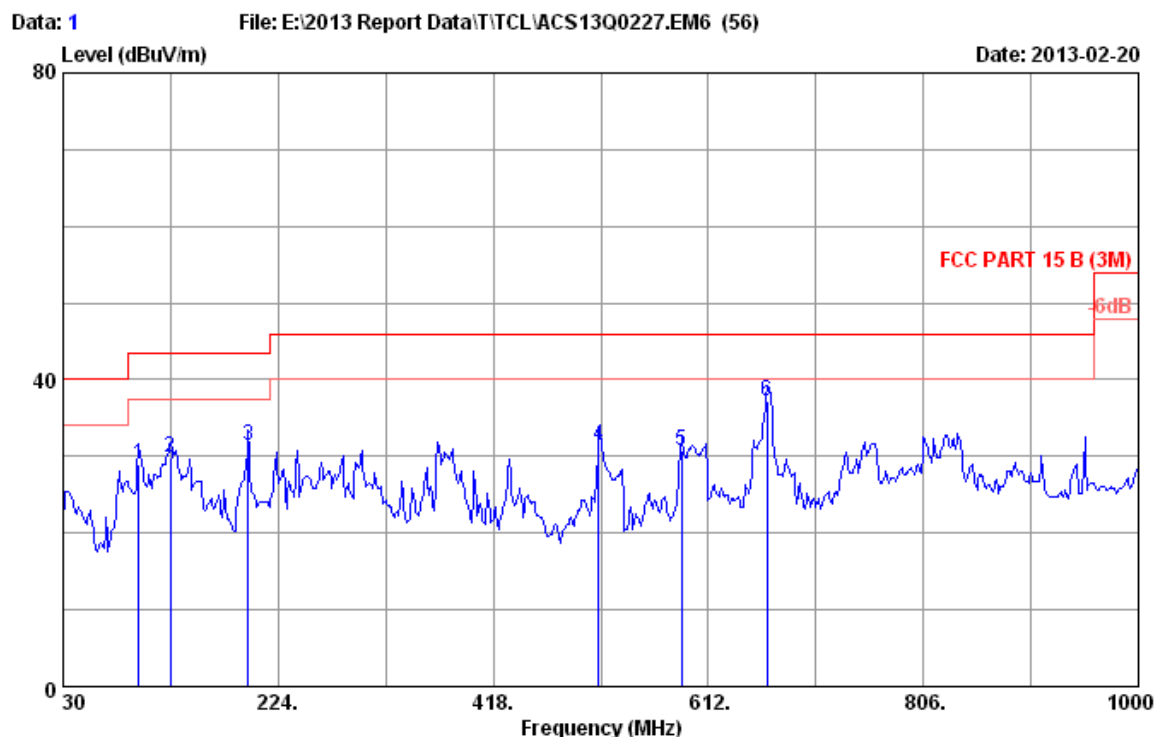
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 VGA:1024*768@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	34.850	13.38	0.51	22.48	36.37	40.00	3.63	QP
2	40.670	14.01	0.51	19.85	34.37	40.00	5.63	QP
3	61.040	12.55	0.66	18.36	31.57	40.00	8.43	QP
4	125.060	12.52	0.90	21.33	34.75	43.50	8.75	QP
5	515.000	16.78	1.87	15.47	34.12	46.00	11.88	QP
6	665.350	19.28	2.32	15.19	36.79	46.00	9.21	QP

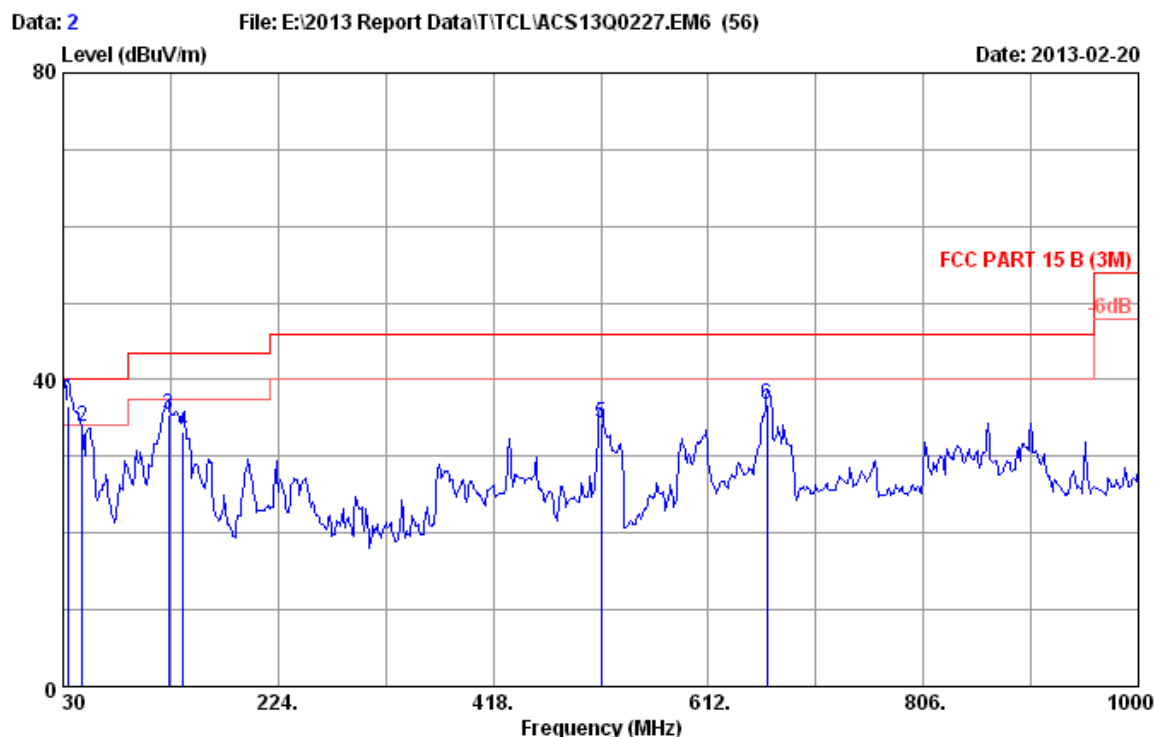
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 VGA:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.00	0.85	18.07	28.92	43.50	14.58	QP
2	127.000	12.62	0.91	16.40	29.93	43.50	13.57	QP
3	196.840	10.08	1.06	20.39	31.53	43.50	11.97	QP
4	513.060	16.75	1.87	12.84	31.46	46.00	14.54	QP
5	587.750	18.07	2.09	10.60	30.76	46.00	15.24	QP
6	665.350	19.28	2.32	15.55	37.15	46.00	8.85	QP

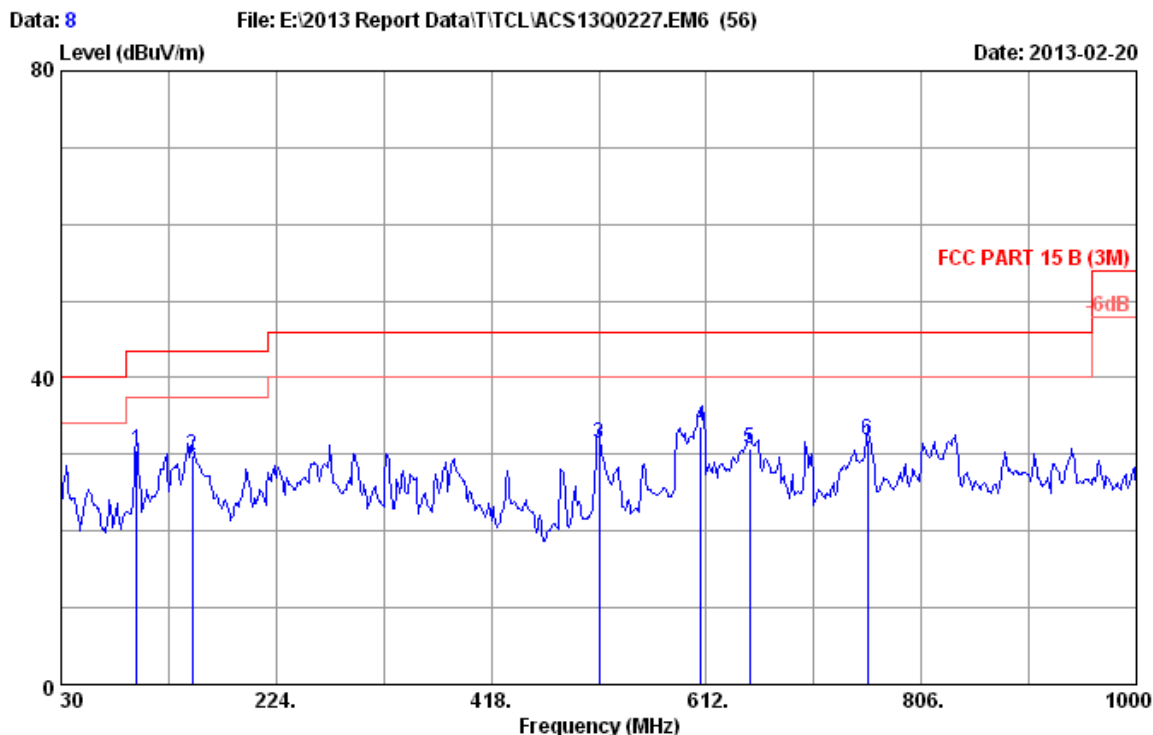
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 VGA:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	34.230	13.36	0.45	22.70	36.51	40.00	3.49	QP
2	47.460	13.60	0.57	19.64	33.81	40.00	6.19	QP
3	125.060	12.52	0.90	22.01	35.43	43.50	8.07	QP
4	138.640	13.41	0.93	18.92	33.26	43.50	10.24	QP
5	515.000	16.78	1.87	15.68	34.33	46.00	11.67	QP
6	665.350	19.28	2.32	15.06	36.66	46.00	9.34	QP

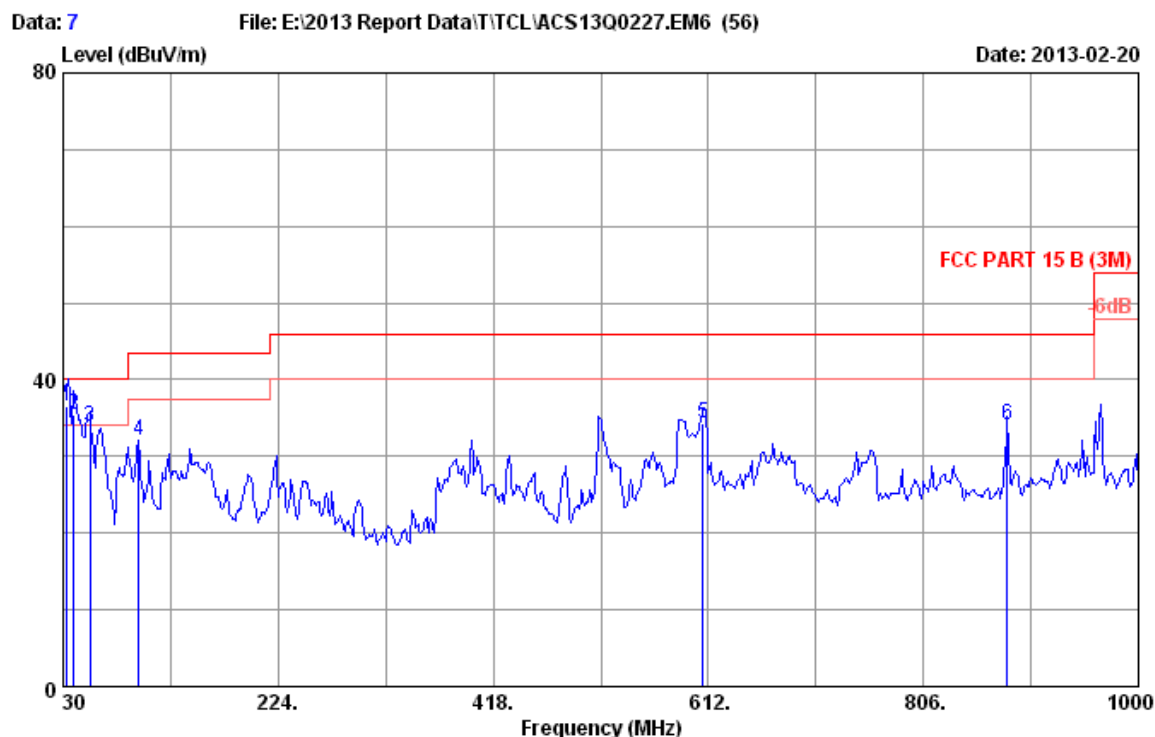
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no.	: 3m Chamber	Data no.	: 8
Dis. / Ant.	: 3m 9168-429	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15 B (3M)		
Env. / Ins.	: 24°C/56%	Engineer	: Even_Deng
EUT	: LCD TV M/N:LE40FHDE3010		
Power rating	: AC 120V/60Hz		
Test Mode	: Running "H" Pattern And 1KHz Playing		
	HDMI 1:1920*1080@60Hz		

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	97.900	10.00	0.85	19.65	30.50	43.50	13.00	QP
2	148.340	14.05	0.96	14.77	29.78	43.50	13.72	QP
3	515.000	16.78	1.87	12.68	31.33	46.00	14.67	QP
4	607.150	18.46	2.13	12.97	33.56	46.00	12.44	QP
5	650.800	19.11	2.28	9.47	30.86	46.00	15.14	QP
6	757.500	20.35	2.58	8.90	31.83	46.00	14.17	QP

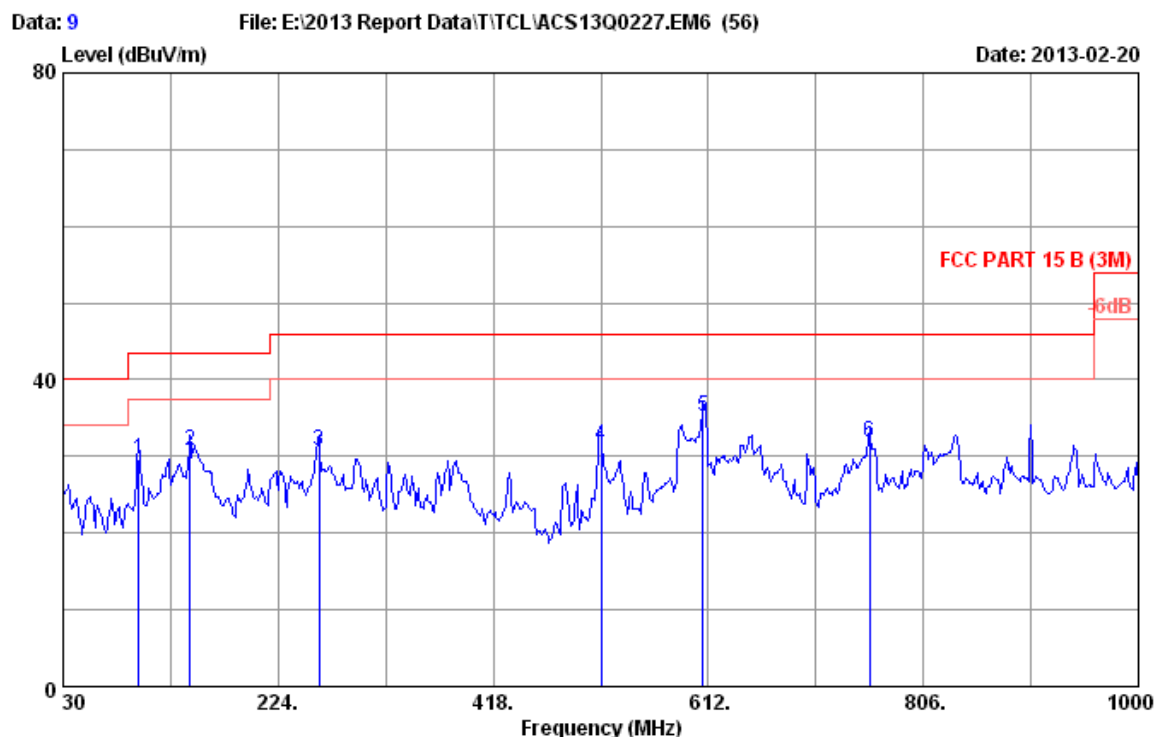
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 1:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	33.800	13.35	0.45	22.70	36.50	40.00	3.50	QP
2	39.700	14.03	0.51	21.00	35.54	40.00	4.46	QP
3	54.250	13.20	0.63	20.06	33.89	40.00	6.11	QP
4	97.900	10.00	0.85	21.33	32.18	43.50	11.32	QP
5	607.150	18.46	2.13	13.77	34.36	46.00	11.64	QP
6	881.660	21.41	2.79	9.96	34.16	46.00	11.84	QP

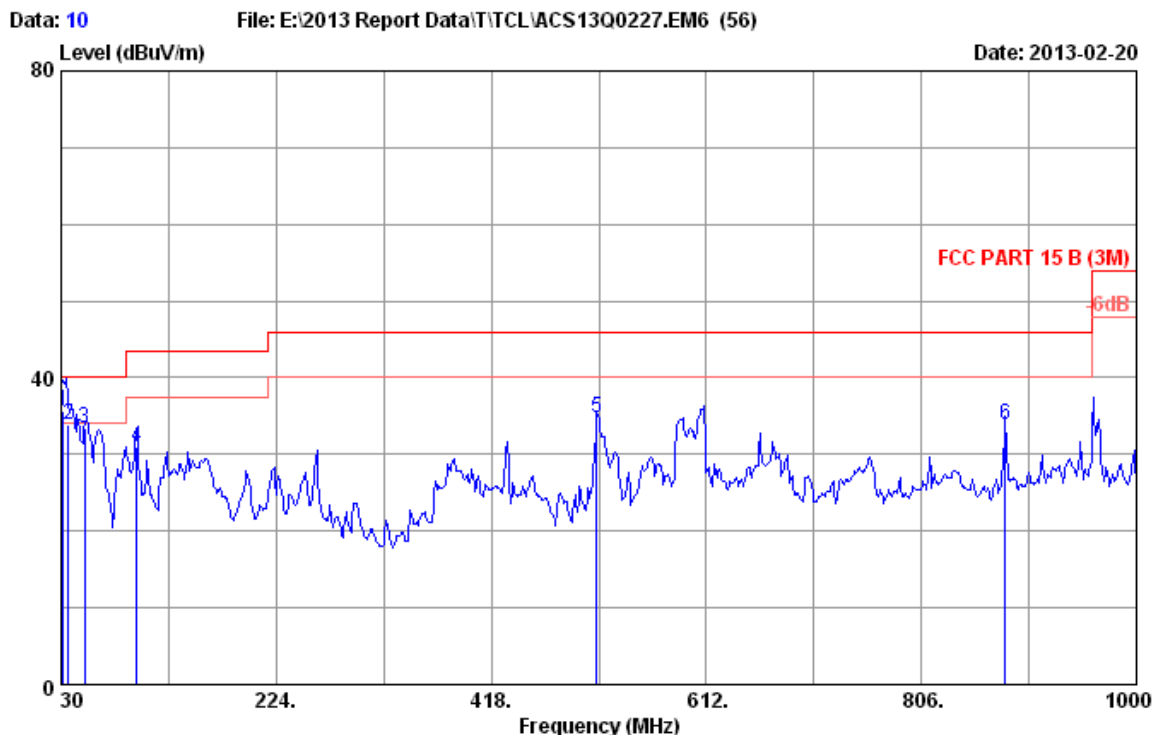
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 2:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.00	0.85	18.73	29.58	43.50	13.92	QP
2	144.460	13.80	0.94	15.94	30.68	43.50	12.82	QP
3	260.860	11.80	1.19	17.83	30.82	46.00	15.18	QP
4	515.000	16.78	1.87	12.80	31.45	46.00	14.55	QP
5	607.150	18.46	2.13	14.69	35.28	46.00	10.72	QP
6	757.500	20.35	2.58	8.98	31.91	46.00	14.09	QP

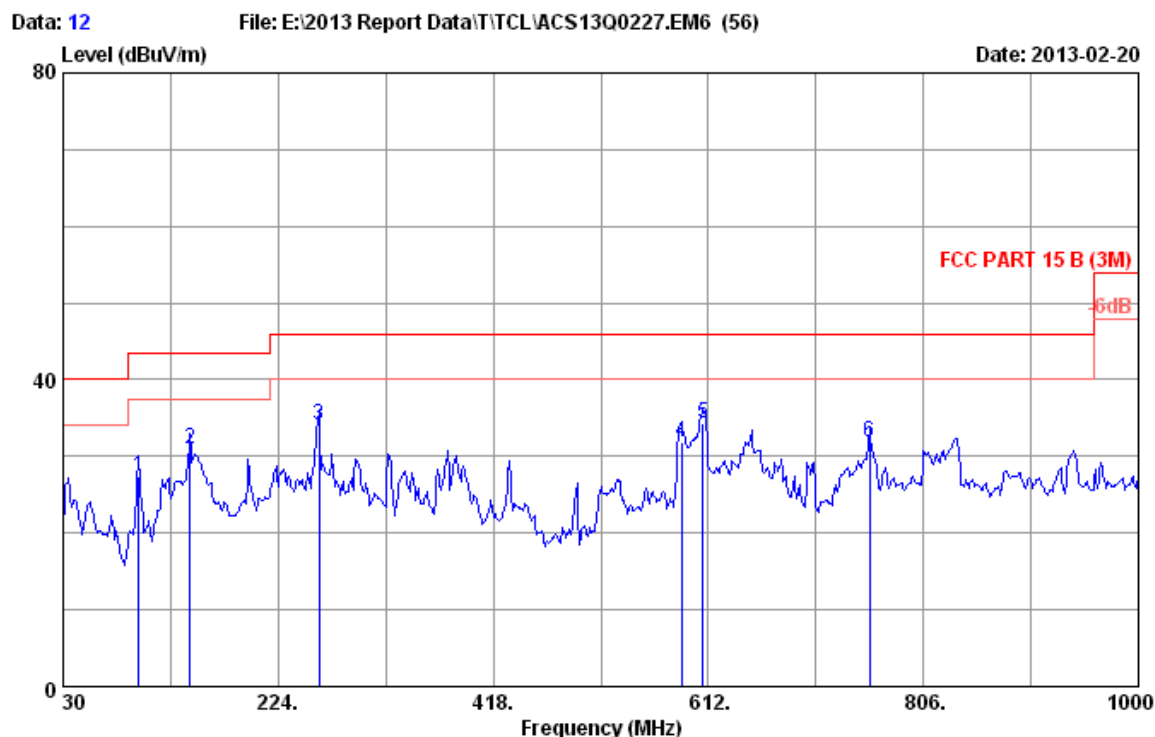
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 2:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	31.940	13.29	0.45	22.01	35.75	40.00	4.25	QP
2	36.790	13.63	0.51	19.65	33.79	40.00	6.21	QP
3	51.340	13.43	0.63	19.36	33.42	40.00	6.58	QP
4	97.900	10.00	0.85	20.18	31.03	43.50	12.47	QP
5	513.060	16.75	1.87	16.10	34.72	46.00	11.28	QP
6	881.660	21.41	2.79	9.78	33.98	46.00	12.02	QP

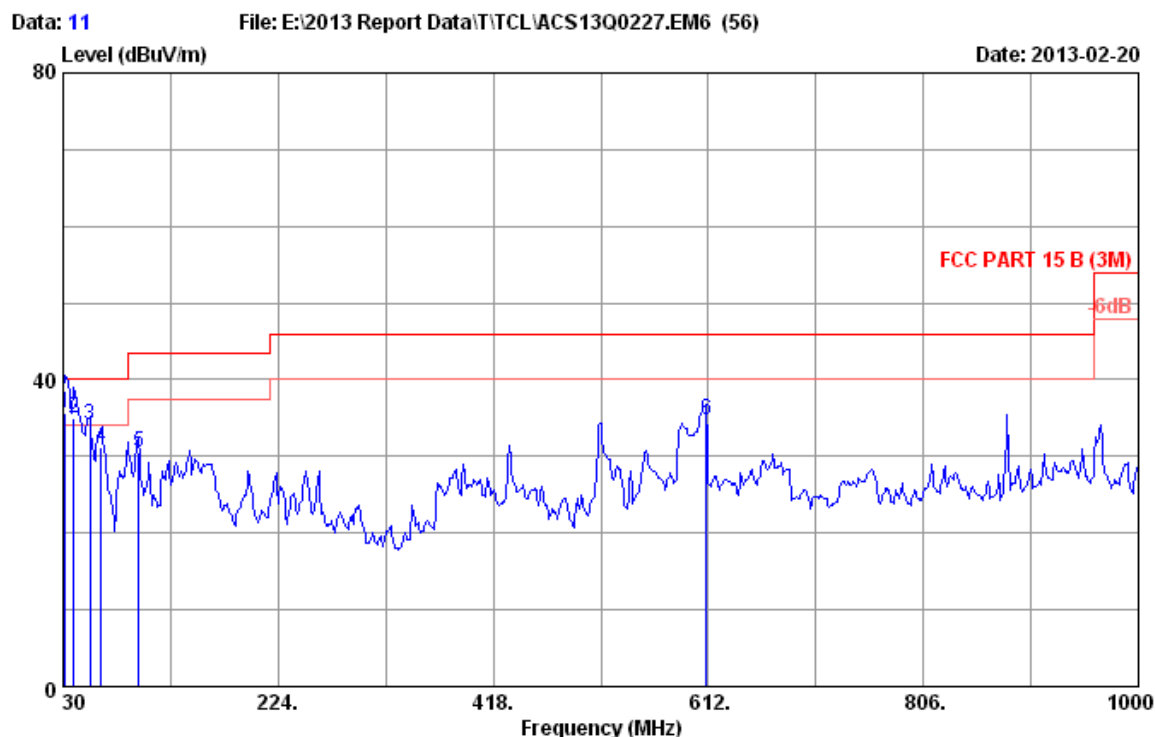
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 9168-429 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 3:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	97.900	10.00	0.85	16.49	27.34	43.50	16.16	QP
2	144.460	13.80	0.94	16.24	30.98	43.50	12.52	QP
3	260.860	11.80	1.19	21.11	34.10	46.00	11.90	QP
4	587.750	18.07	2.09	11.66	31.82	46.00	14.18	QP
5	607.150	18.46	2.13	13.65	34.24	46.00	11.76	QP
6	757.500	20.35	2.58	8.95	31.88	46.00	14.12	QP

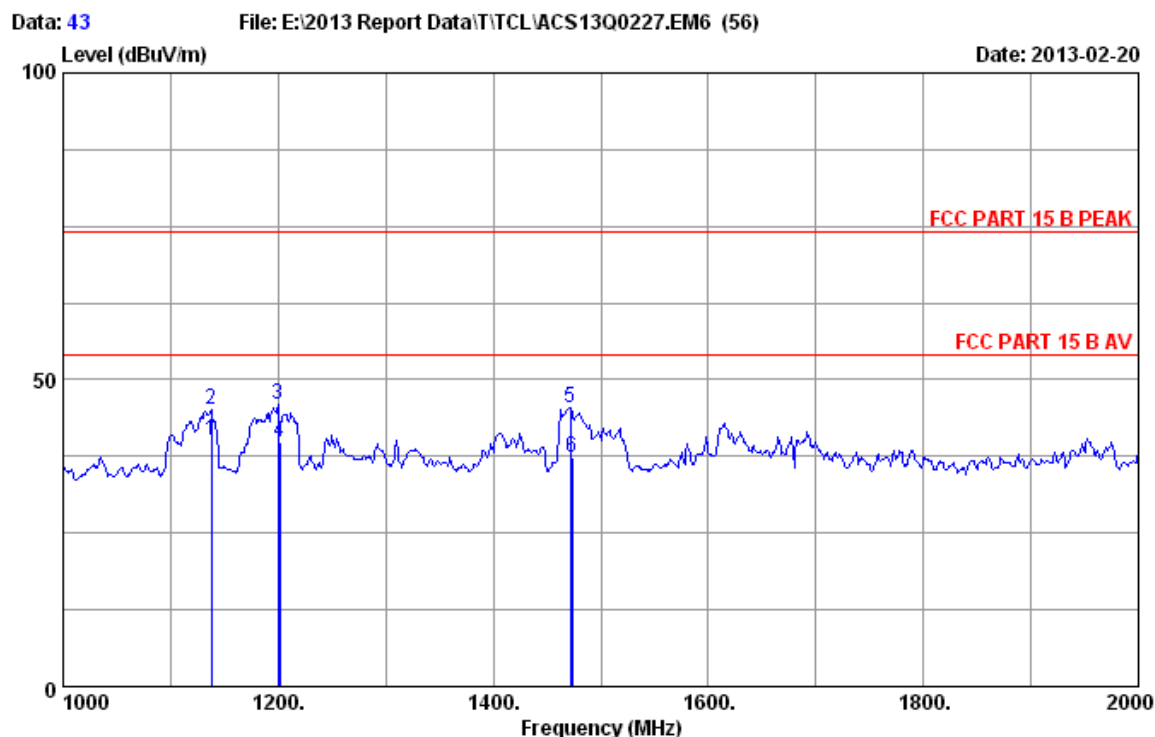
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 9168-429 Ant. pol. : VERTICAL
 Limit : FCC PART 15 B (3M)
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 3:1920*1080@60Hz

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	31.940	13.29	0.45	21.81	35.55	40.00	4.45	QP
2	39.700	14.03	0.51	20.52	35.06	40.00	4.94	QP
3	54.250	13.20	0.63	20.34	34.17	40.00	5.83	QP
4	63.950	11.99	0.69	18.53	31.21	40.00	8.79	QP
5	97.900	10.00	0.85	19.79	30.64	43.50	12.86	QP
6	610.060	18.51	2.15	14.09	34.75	46.00	11.25	QP

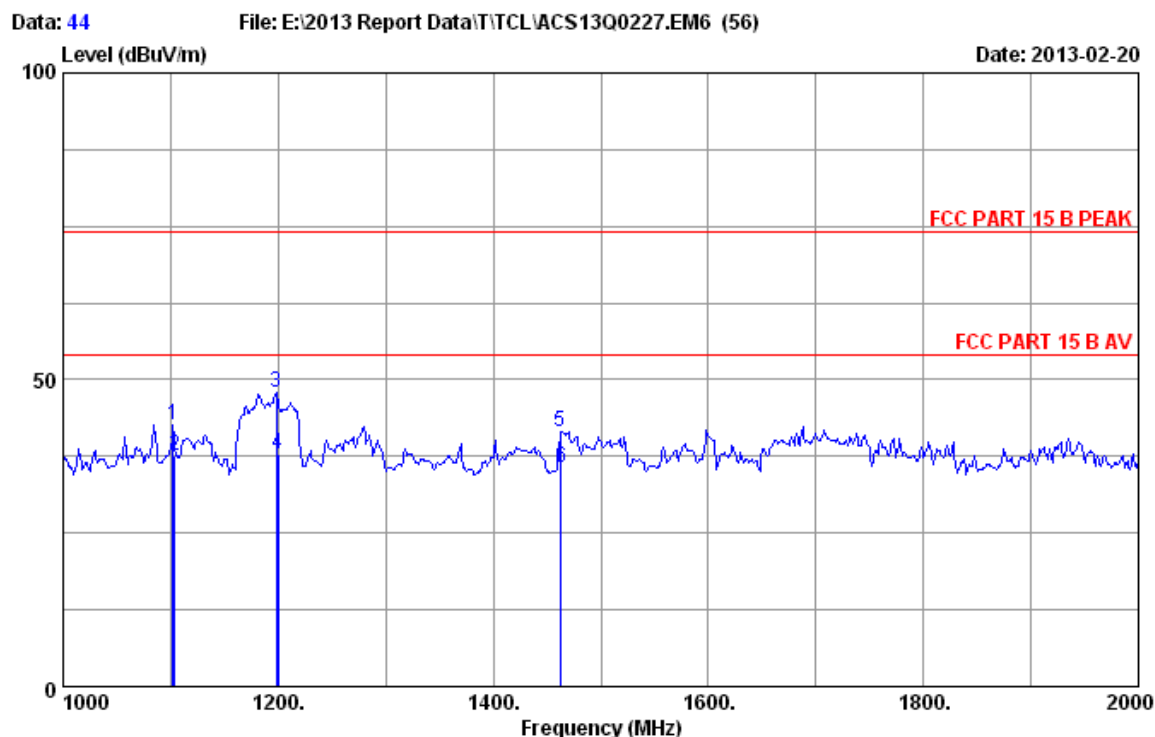
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 VGA:1920*1080@60Hz

No.	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	1137.650	23.38	0.97	34.07	49.74	40.02	54.00	13.98	Average
2	1138.000	23.38	0.97	34.07	54.74	45.02	74.00	28.98	Peak
3	1200.000	23.50	0.98	34.06	55.46	45.88	74.00	28.12	Peak
4	1201.220	23.50	0.98	34.06	49.46	39.88	54.00	14.12	Average
5	1472.000	24.04	1.02	34.01	54.34	45.39	74.00	28.61	Peak
6	1473.159	24.05	1.02	34.01	46.33	37.39	54.00	16.61	Average

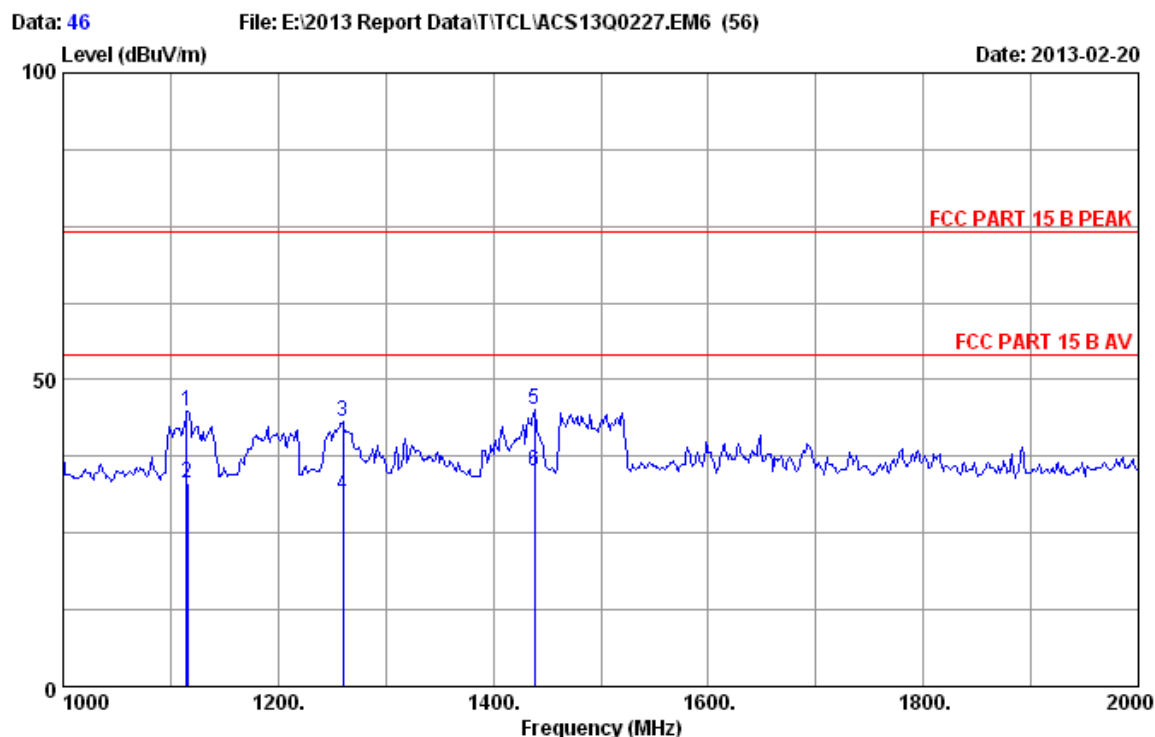
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 VGA:1920*1080@60Hz

No.	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	1102.000	23.30	0.96	34.08	52.46	42.64	74.00	31.36	Peak
2	1103.580	23.31	0.96	34.08	47.45	37.64	54.00	16.36	Average
3	1198.000	23.50	0.98	34.06	57.59	48.01	74.00	25.99	Peak
4	1199.850	23.50	0.98	34.06	47.59	38.01	54.00	15.99	Average
5	1462.000	24.02	1.02	34.01	50.60	41.63	74.00	32.37	Peak
6	1463.150	24.03	1.02	34.01	44.59	35.63	54.00	18.37	Average

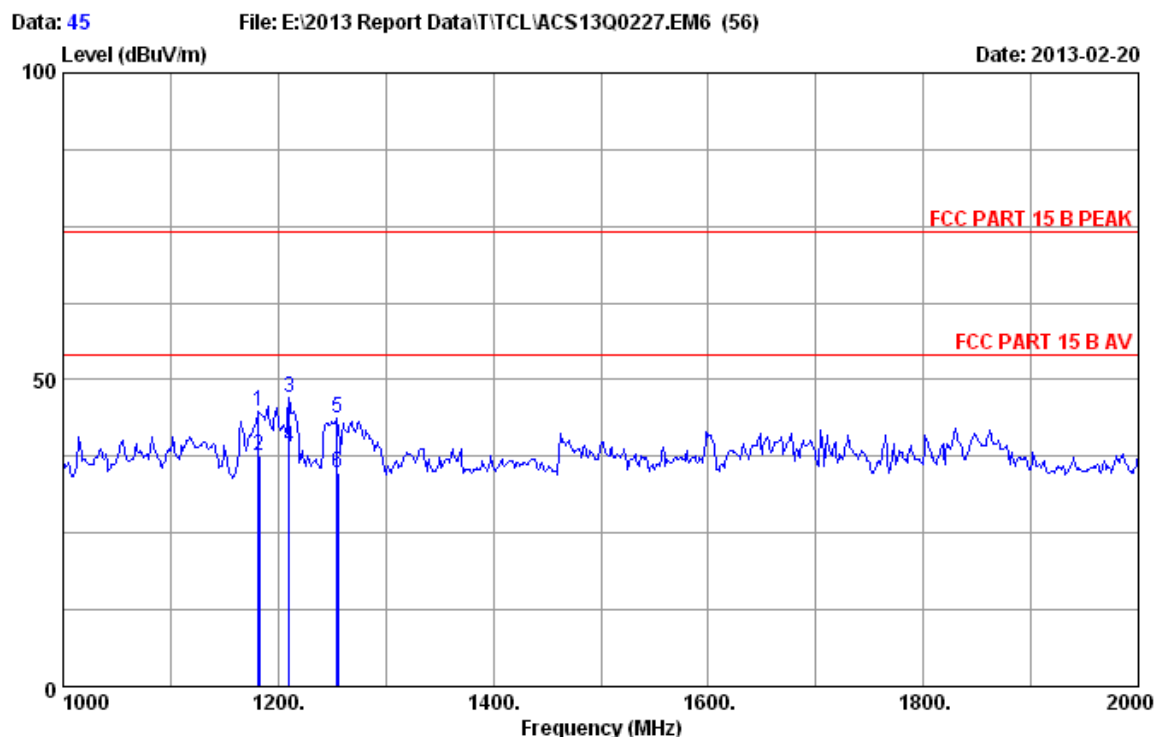
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 1:1920*1080@60Hz

No.	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	1115.000	23.33	0.97	34.08	54.66	44.88	74.00	29.12	Peak
2	1115.365	23.33	0.97	34.08	42.85	33.07	54.00	20.93	Average
3	1260.000	23.62	0.99	34.05	52.52	43.08	74.00	30.92	Peak
4	1260.248	23.62	0.99	34.05	40.58	31.14	54.00	22.86	Average
5	1438.000	23.98	1.01	34.01	54.10	45.08	74.00	28.92	Peak
6	1438.689	23.98	1.01	34.01	44.17	35.15	54.00	18.85	Average

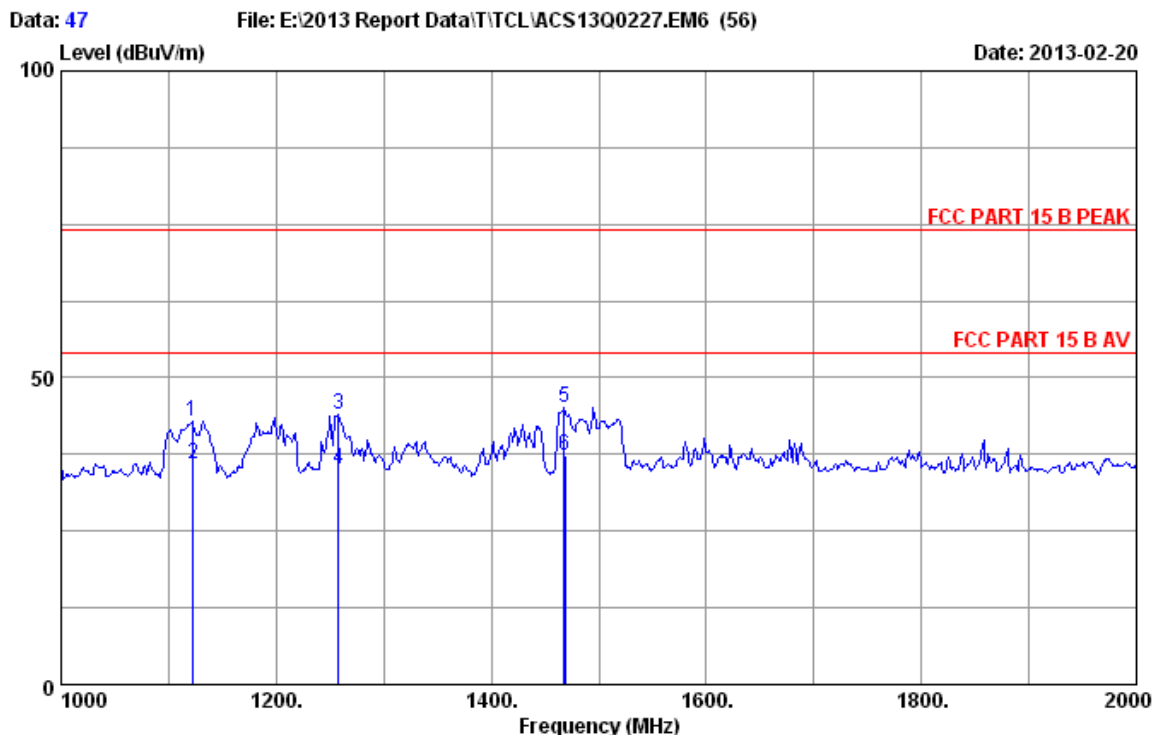
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 1:1920*1080@60Hz

No.	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	1182.000	23.46	0.98	34.06	54.35	44.73	74.00	29.27	Peak
2	1182.478	23.46	0.98	34.06	47.32	37.70	54.00	16.30	Average
3	1210.000	23.52	0.98	34.06	56.53	46.97	74.00	27.03	Peak
4	1210.541	23.52	0.98	34.06	48.56	39.00	54.00	15.00	Average
5	1255.000	23.61	0.99	34.05	53.07	43.62	74.00	30.38	Peak
6	1255.782	23.61	0.99	34.05	44.26	34.81	54.00	19.19	Average

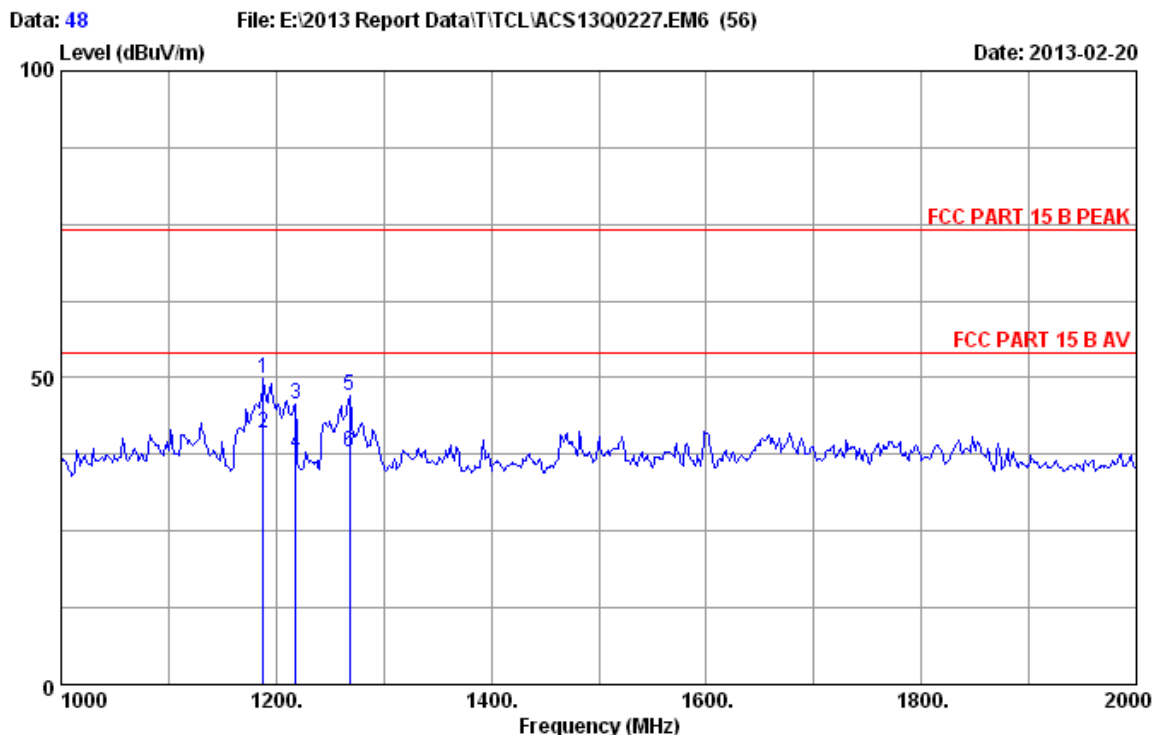
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 47
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 2:1920*1080@60Hz

No.	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	1122.000	23.34	0.97	34.08	52.69	42.92	74.00	31.08	Peak
2	1122.652	23.35	0.97	34.08	45.65	35.89	54.00	18.11	Average
3	1258.000	23.62	0.99	34.05	53.48	44.04	74.00	29.96	Peak
4	1258.238	23.62	0.99	34.05	44.47	35.03	54.00	18.97	Average
5	1468.000	24.04	1.02	34.01	54.19	45.24	74.00	28.76	Peak
6	1468.752	24.04	1.02	34.01	46.16	37.21	54.00	16.79	Average

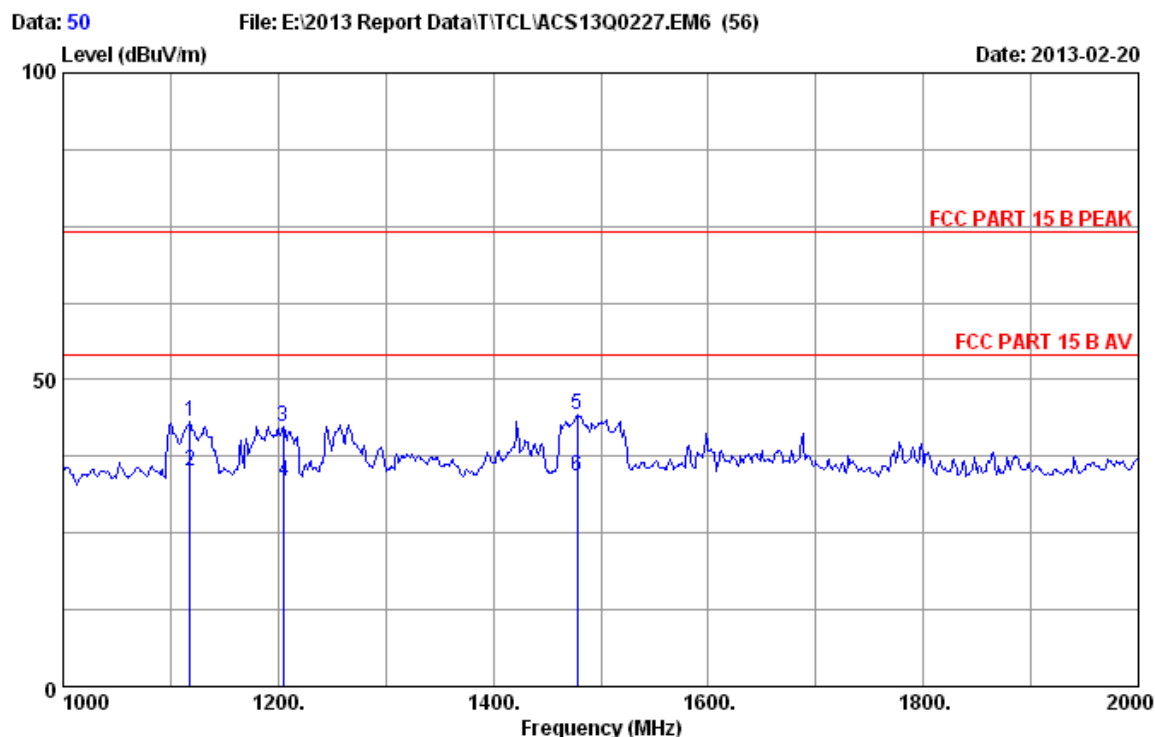
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 48
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 2:1920*1080@60Hz

No.	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	1188.000	23.48	0.98	34.06	59.45	49.85	74.00	24.15	Peak
2	1188.245	23.48	0.98	34.06	50.48	40.88	54.00	13.12	Average
3	1218.000	23.54	0.98	34.06	55.23	45.69	74.00	28.31	Peak
4	1218.412	23.54	0.98	34.06	47.28	37.74	54.00	16.26	Average
5	1268.000	23.64	0.99	34.05	56.40	46.98	74.00	27.02	Peak
6	1268.456	23.64	0.99	34.05	47.44	38.02	54.00	15.98	Average

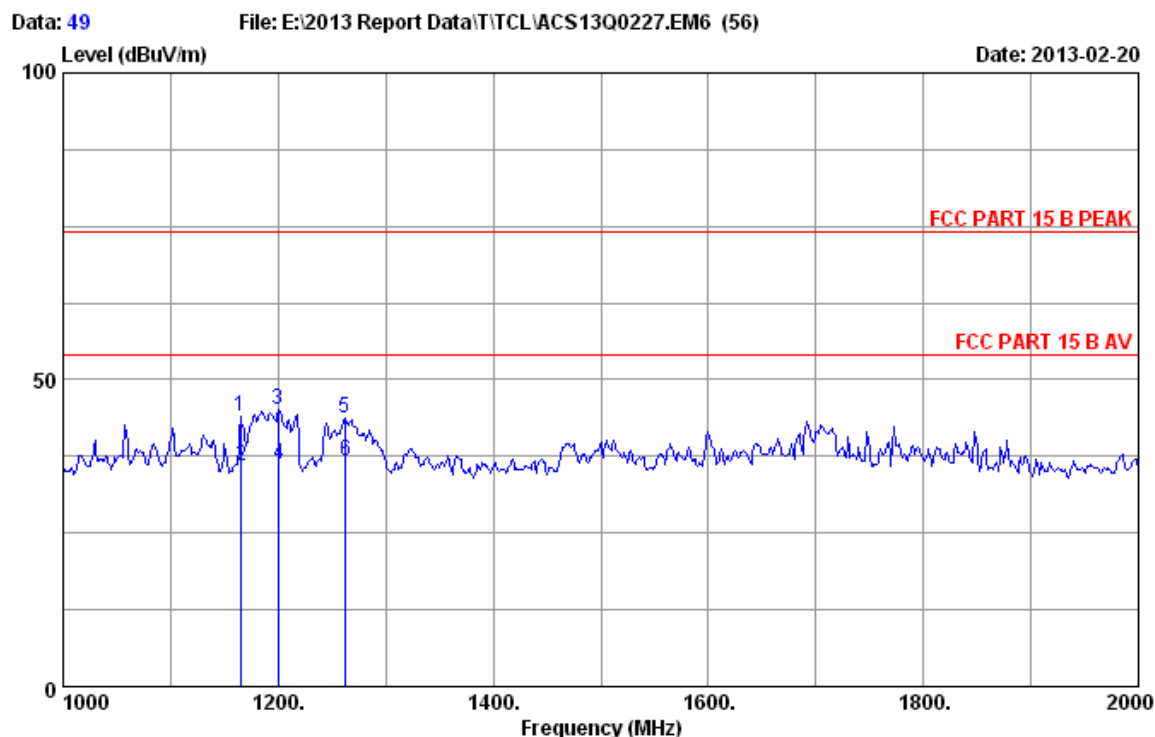
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no. : 3m Chamber Data no. : 50
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 3:1920*1080@60Hz

No.	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	1118.000	23.34	0.97	34.08	52.82	43.05	74.00	30.95	Peak
2	1118.325	23.34	0.97	34.08	44.88	35.11	54.00	18.89	Average
3	1205.000	23.51	0.98	34.06	51.99	42.42	74.00	31.58	Peak
4	1205.418	23.51	0.98	34.06	42.93	33.36	54.00	20.64	Average
5	1478.000	24.06	1.02	34.00	53.11	44.19	74.00	29.81	Peak
6	1478.495	24.06	1.02	34.00	43.16	34.24	54.00	19.76	Average

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



Site no. : 3m Chamber Data no. : 49
 Dis. / Ant. : 3m 2012 3115 (4877) Ant. pol. : VERTICAL
 Limit : FCC PART 15 B PEAK
 Env. / Ins. : 24°C/56% Engineer : Even_Deng
 EUT : LCD TV M/N:LE40FHDE3010
 Power Rating : AC 120V/60Hz
 Test Mode : Running "H" Pattern And 1KHz Playing
 HDMI 3:1920*1080@60Hz

No.	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	1165.000	23.43	0.97	34.07	53.65	43.98	74.00	30.02	Peak
2	1165.368	23.43	0.97	34.07	45.70	36.03	54.00	17.97	Average
3	1200.000	23.50	0.98	34.06	54.75	45.17	74.00	28.83	Peak
4	1200.472	23.50	0.98	34.06	45.78	36.20	54.00	17.80	Average
5	1262.000	23.62	0.99	34.05	53.22	43.78	74.00	30.22	Peak
6	1262.853	23.63	0.99	34.05	46.27	36.84	54.00	17.16	Average

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

5. DEVIATION TO TEST SPECIFICATIONS

[NONE]