FCC ID:X5EH46F3500G

APPLICATION OF CERTIFICATION For

TCL CORPORATION

LCD Monitor

Model No.: H46F3500G

FCC ID: X5EH46F3500G

Prepared for: TCL CORPORATION

Section 19, Zhongkai Development Zone for New And Tech Industries, Huizhou, Guangdong, 516006,

P. R. C. China

Prepared By: Audix Technology (Shenzhen) Co., Ltd.

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Report Number : ACS- F13249

Date of Test : Jul.07~Aug.06, 2013

Date of Report : Sep.30, 2013



FCC ID:X5EH46F3500G

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FCC ID:X5EH46F3500G

TEST REPORT CERTIFICATION

Applicant

TCL CORPORATION

Manufacturer

TCL CORPORATION

EUT Description

LCD Monitor

FCC ID

X5EH46F3500G

(A) Model No.

: H46F3500G

(B) Serial No.

: N/A

(C) Power Supply: AC 100-240V, 50/60Hz

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

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart B Class B 2012

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:

Jul.08~Aug.12,2013 Report of date:

Sep.30, 2013

Prepared by:

M'a Zhu for Reviewed by: Smooddame Wu

Sun Zeng / Assistant Manager

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: David Sin, 9

David Jin / Manager

Approved & Authorized Signer:



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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: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 17.96dB at 1.456MHz					
Radiated Emission Test (30-1000MHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 3.43dB at 31.940MHz					
Radiated Emission Test (1-2GHz)	FCC Part 15: 2012 ANSI C63.4: 2009	PASS	Meets Class B Limit Minimum passing margin is 12.06dB at 1241.256MHz					



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2. GENERAL INFORMATION

2.1.Description of Device (EUT)

Description : LCD Monitor

Model Number : H46F3500G

FCC ID : X5EH46F3500G

Applicant : TCL CORPORATION

Section 19, Zhongkai Development Zone for New And Tech Industries, Huizhou, Guangdong, 516006, P. R. C. China

Manufacturer : TCL CORPORATION

Section 19, Zhongkai Development Zone for New And Tech Industries, Huizhou, Guangdong, 516006, P. R. C. China

FREQUENCIES USED AND GENERATED WITHIN DEVICE					
LVDS (HD)	78MHZ				
LVDS (FHD)	75MHZ				
DC-DC	500KHz				
DDR	1066MHz				
AMP	384KHz				

Power Cord : Unshielded, Detachable, 2.0m

Date of Test : Jul.08~Aug.06, 2013

Date of Receipt : Jul.05, 2013

Sample Type : Prototype production



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2.2.Tested Supporting System Details

1.				Model	Serial Number	Approved type			
1.	Personal Computer	Test PC M	DELL	Studio 540	224XK2X	☑FCC DoC ☑BSMI ID:R33002			
	•	Power Cord: Unshiel Display Card: HD34:	*						
2.	USB Keyboard	ACS-EMC- K04R	DELL	SK-8115	CN-ODJ313-71616- 6BB-049J	☑ FCC DoC ☑BSMI ID: T3A002			
		Power Cord: shielded	l, Undetachable	, 2.0m					
3.	USB Mouse	ACS-EMC-M04R	DELL	M0C5UO	512024282	☑ FCC DoC ☑BSMI ID: R41108			
		Power Cord: shielded	l, Undetachable	, 1.8m					
4.	Printer	ACS-EMC-PT04	НР	C9079A	N/A	☑FCC DoC ☑BSMI ID: R33001			
		Power Cord: Unshiel	ded, Detachable	e, 2.0m					
5.	HDD	ACS-EMC-HDD03	Terasys	F12-UF	A0100215-5390030	☑FCC DoC ☑BSMI ID: 4912A022			
		USB Cable: Shielded	USB Cable: Shielded, Detachable, 1.8m						
		ACS-EMC-MD01	ACEEX	1414	980013578	☑FCC ID: IFAXDM1414 □BSMI ID			
6.		Data Cable: Shielded, Detachabled, 1.5m Power Adapter: TGL, MDE130100TH, DC Cable: Unshielded, Detachabled, 1.6m (with one core)							
7.	iPod nano	ACS-EMC-IP01	APPLE	A1199	YM706MLDVQ5	☑FCC DoC ☑BSMI ID: R33057			
, .		Data Cable: Shielded	, Detachabled,	1.0m					
8.	iPod nano	ACS-EMC-IP02	APPLE	A1199	YM706MCQVQ5	☑FCC DoC ☑BSMI ID: R33057			
		Data Cable: Shielded	, Detachabled,	1.0m					
9.	RS232 Cable	Shielded, Detachab	le,1.5m						
10.	D-Sub Cable	Shielded, Detachab	le, 1.5m (Bond	d two ferrite	cores)				
11.	HDMI	Shielded, Detachab	le, 1.8m (Bond	d two ferrite	cores)				
12.	Audio (R+L) Cable	Unshielded, Detach	nable, 1.5m						
13.	AV Cable*2	Unshielded, Detach	nable, 1.5m						
14.	Component Cable	Unshielded, Detach	nable, 1.8m						

: Core



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2.3.Block diagram of connection between the EUT and simulators c, d, e, f Dummy Load $75\Omega\&10k\Omega$ ipod #2 ipod #1 Modem USB Keyboard AC Mains **EUT** PC **USB** Mouse **HDD** AC Mains Printer a: VGA Cable b: HDMI*2 Cable c: Component In Cable Remote Controller d: AV In Cable e: Audio (R+L) Cable f: AV Out Cable g: RS232 Cable h: USB*2 Cable

(EUT: LCD Monitor)



AUDIX Technology (Shenzhen) Co., Ltd.

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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, 2014

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

Test Item	Uncertainty		
Uncertainty for Conduction emission test in No. 1 Conduction	3.1 dB		
	3.38dB (30~200MHz, Polarize: H)		
Uncertainty for Radiation Emission test	3.40dB (30~200MHz, Polarize: V)		
in 10m chamber (Distance: 10m)	3.66dB (200M~1GHz, Polarize: H)		
	3.58dB (200M~1GHz, Polarize: V)		
Uncertainty for Radiation Emission test in	5.04dB (1~6GHz Distance: 3m)		
10m chamber (1GHz-18GHz)	5.06dB (6~18GHz Distance: 3m)		
Uncertainty for test site temperature	3%		
and humidity	0.6° C		

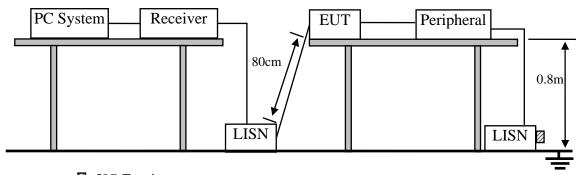


3. POWER LINE CONDUCTED EMISSION MEASUREMENT

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, 13	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May.08, 13	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 2	May.08, 13	1 Year
6.	RF Cable	Fujikura	3D-2W	No.1	May.08, 13	1Year
7.	Coaxial Switch	Anritsu	MP59B	M50564	May.08, 13	1 Year
8.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	May.08, 13	1 Year

3.2.Block Diagram of Test Setup



 \square :50 Ω Terminator

3.3. Power Line Conducted Emission Test Limits

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	$dB(\mu V)$	$dB(\mu V)$			
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 Monitor (EUT)

Model Number : H46F3500G

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 Win "H" exe by windows vista and sent "H" Character to LCD Monitor (EUT) through HDMI/ VGA card, the Screen of EUT displayed and filled with "H" pattern (font size of character "H" is 9; character color is white, background color is black).
- 3.5.4. The PC sends "H" messages to the printer which printer them on paper
- 3.5.5. The PC reads/writes massages from / to HDD
- 3.5.6. The EUT Playing color bar signal from iPod
- 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.# 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.



AUDIX Technology (Shenzhen) Co., Ltd.

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EUT: LCD Monitor Model No.: H46F3500G

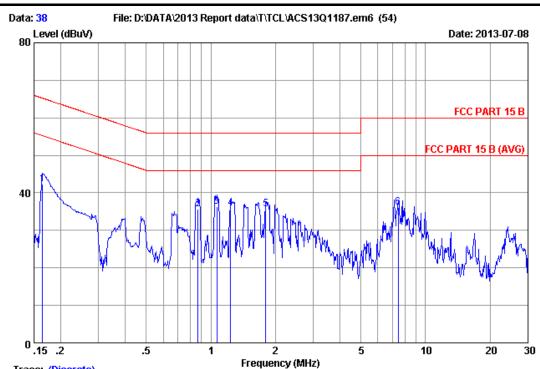
Test Date: Jul.08, 2013 Temperature: 26.5°C Humidity: 63%

The details of test modes are as follows:

No.	Input Dort	Resolution & Frequency	Reference Test Data No.		
NO.	Input Port	Resolution & Flequency	Line	Neutral	
1. 💥		640*480/60Hz	#38	#37	
2.	VGA	1024*768/60Hz	#40	#39	
3.		1920*1080/60Hz		#41	
4.	HDMI 1	1920*1080/60Hz	#43	#44	
5.	HDMI 2	1920*1080/60Hz	#45	#46	
6.	USB 1 Playing	1	#48	#47	
7.	USB 2 Playing		#50	#49	
8.	Component In Mode		#51	#52	
9.	AV In Mode		#54	#53	

^{(*} Worst test mode)





Site no :1#conduction Data No :38

Dis./Ant. : ** 2012 ESH2-Z5 LINE

:FCC PART 15 B Limit

Env./Ins. :26.5*C/63% Engineer : Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

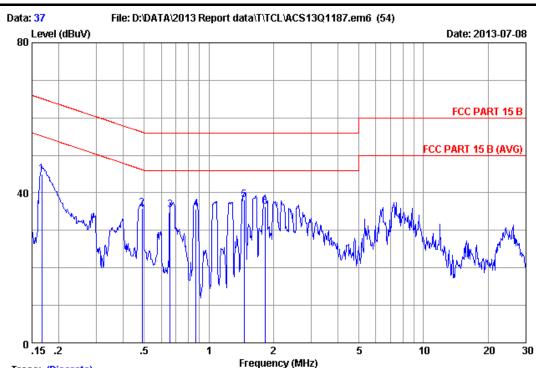
:Running "H" Pattern And 1KHz Playing Test Mode

VGA:640*480@60Hz

		LISN	Cable		Emission	ı		
No 	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16414	0.19	0.01	42.04	42.24	65.25	23.01	QP
2	0.87103	0.21	0.03	35.42	35.66	56.00	20.34	QP
3	1.065	0.21	0.03	36.16	36.40	56.00	19.60	QP
4	1.236	0.22	0.03	35.57	35.82	56.00	20.18	QP
5	1.800	0.23	0.04	35.34	35.61	56.00	20.39	QP
6	7.446	0.39	0.08	35.73	36.20	60.00	23.80	QP

 ${\tt Remarks: 1.Emission \ Level=LISN \ Factor+Cable \ Loss+Reading.}$





Site no :1#conduction Data No :37

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

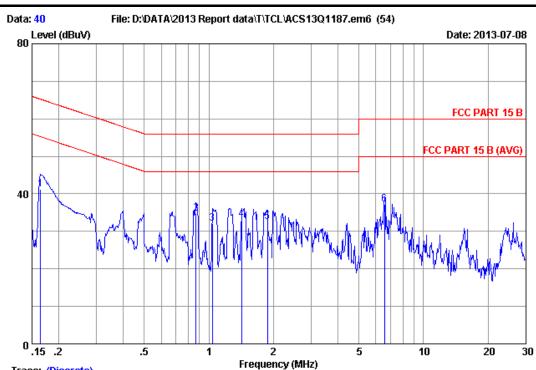
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:640*480@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16677	0.21	0.01	44.72	44.94	65.12	20.18	QP
2	0.48890	0.23	0.02	35.54	35.79	56.19	20.40	QP
3	0.66127	0.24	0.03	35.20	35.47	56.00	20.53	QP
4	0.87103	0.24	0.03	35.49	35.76	56.00	20.24	QP
5	1.456	0.26	0.03	37.75	38.04	56.00	17.96	QP
6	1.829	0.27	0.04	36.09	36.40	56.00	19.60	QP

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





:1#conduction Site no Data No :40

Dis./Ant. : ** 2012 ESH2-Z5 LINE

:FCC PART 15 B Limit

Env./Ins. :26.5*C/63% Engineer : Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

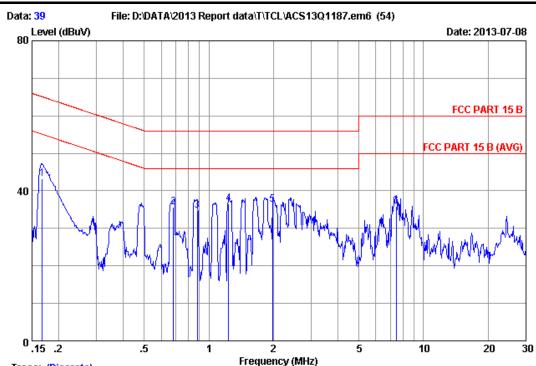
:Running "H" Pattern And 1KHz Playing Test Mode

VGA:1024*768@60Hz

		LISN	Cable		Emission	ı		
No	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16414	0.19	0.01	41.04	41.24	65.25	24.01	QP
2	0.87103	0.21	0.03	34.52	34.76	56.00	21.24	QP
3	1.037	0.21	0.03	31.94	32.18	56.00	23.82	QP
4	1.418	0.22	0.03	32.91	33.16	56.00	22.84	QP
5	1.878	0.24	0.04	32.33	32.61	56.00	23.39	QP
6	6.592	0.37	0.08	36.86	37.31	60.00	22.69	QP

 ${\tt Remarks: 1.Emission \ Level=LISN \ Factor+Cable \ Loss+Reading.}$





Site no :1#conduction Data No :39

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

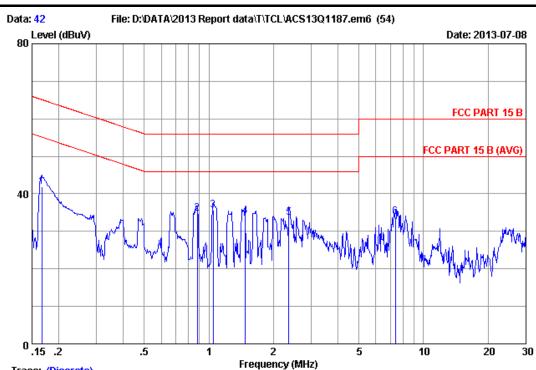
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:1024*768@60Hz

No	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
						(abav)	(GD)	
1	0.16765	0.21	0.01	43.02	43.24	65.08	21.84	QP
2	0.68263	0.24	0.03	35.40	35.67	56.00	20.33	QP
3	0.88499	0.24	0.03	34.43	34.70	56.00	21.30	QP
4	1.236	0.25	0.03	36.15	36.43	56.00	19.57	QP
5	1.980	0.28	0.04	35.95	36.27	56.00	19.73	QP
6	7.446	0.41	0.08	35.38	35.87	60.00	24.13	QP

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





Site no :1#conduction Data No :42

Dis./Ant. :** 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

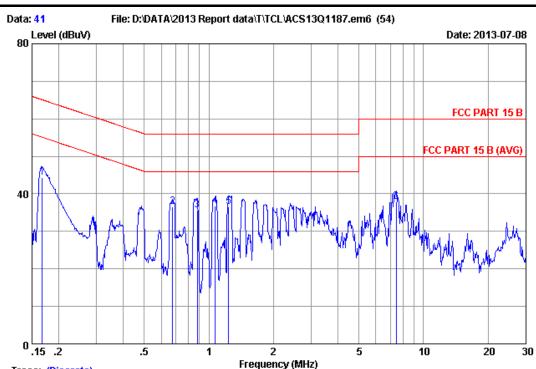
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz

		LISN Cable			Emission			
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.16677	0.19	0.01	41.80	42.00	65.12	23.12	QP
2	0.88499	0.21	0.03	34.54	34.78	56.00	21.22	QP
3	1.049	0.21	0.03	35.44	35.68	56.00	20.32	QP
4	1.480	0.22	0.03	33.82	34.07	56.00	21.93	QP
5	2.358	0.25	0.04	33.29	33.58	56.00	22.42	QP
6	7.407	0.39	0.08	33.36	33.83	60.00	26.17	QP

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





Site no :1#conduction Data No :41

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

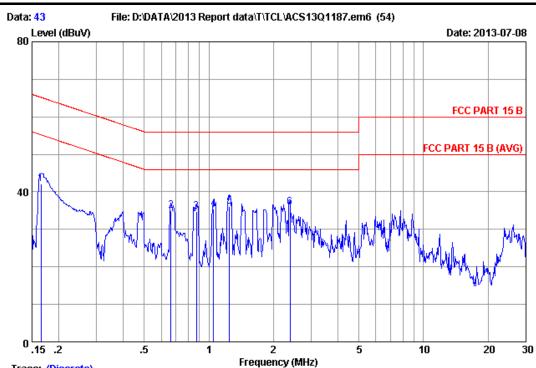
Test Mode :Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz

No	Freq	LISN Factor	Cable Loss	Reading	Emissior Level	Limits	Margin	Remark
	(MHz)	(dB) 	(dB)	(dBuV) 	(dBuV) 	(dBuV) 	(dB) 	
1	0.16765	0.21	0.01	44.02	44.24	65.08	20.84	QP
2	0.67902	0.24	0.03	36.18	36.45	56.00	19.55	QP
3	0.88499	0.24	0.03	35.43	35.70	56.00	20.30	QP
4	1.071	0.24	0.03	36.59	36.86	56.00	19.14	QP
5	1.236	0.25	0.03	36.15	36.43	56.00	19.57	QP
6	7.446	0.41	0.08	37.38	37.87	60.00	22.13	QP

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





Site no :1#conduction Data No :43

Dis./Ant. :** 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

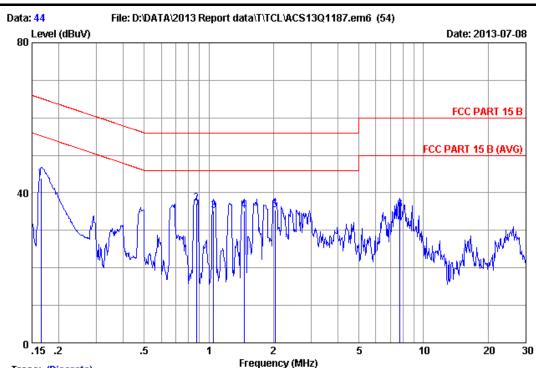
Test Mode :Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz

No 	Freq (MHz)	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	n Limits (dBuV)	Margin (dB)	Remark
1	0.16501	0.19	0.01	41.90	42.10	65.21	23.11	QP
2	0.66478	0.20	0.03	34.70	34.93	56.00	21.07	QP
3	0.87566	0.21	0.03	34.61	34.85	56.00	21.15	QP
4	1.054	0.21	0.03	35.18	35.42	56.00	20.58	QP
5	1.249	0.22	0.03	35.89	36.14	56.00	19.86	QP
6	2.384	0.25	0.04	35.64	35.93	56.00	20.07	QP

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





Site no :1#conduction Data No :44

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

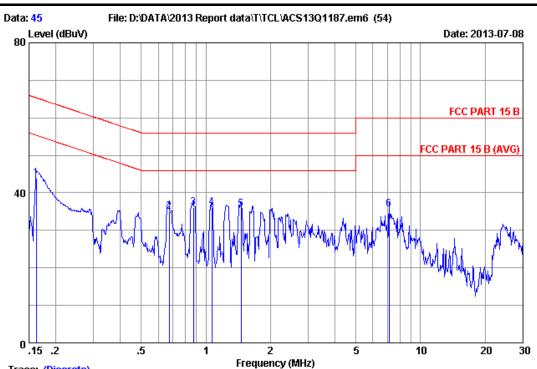
Test Mode :Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz

	LISN Cable			Emission				
No	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16501	0.21	0.01	43.62	43.84	65.21	21.37	QP
2	0.87566	0.24	0.03	36.92	37.19	56.00	18.81	QP
3	1.054	0.24	0.03	34.98	35.25	56.00	20.75	QP
4	1.456	0.26	0.03	34.95	35.24	56.00	20.76	QP
5	2.033	0.28	0.04	35.16	35.48	56.00	20.52	QP
6	7.769	0.41	0.09	34.94	35.44	60.00	24.56	QP

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





:1#conduction Site no Data No :45

Dis./Ant. : ** 2012 ESH2-Z5 LINE

:FCC PART 15 B Limit

Env./Ins. :26.5*C/63% Engineer : Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

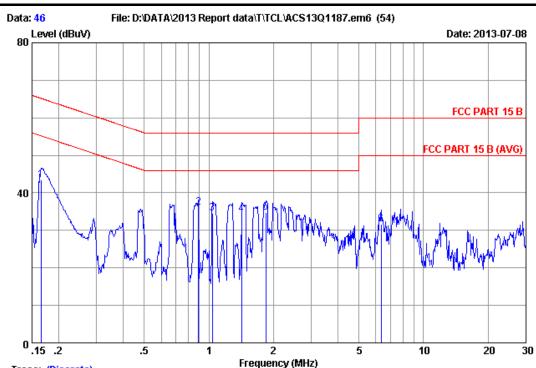
:Running "H" Pattern And 1KHz Playing Test Mode

HDMI 2:1920*1080@60Hz

	LISN Cable			Emission				
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.16241	0.19	0.01	43.68	43.88	65.34	21.46	QP
2	0.67544	0.20	0.03	34.75	34.98	56.00	21.02	QP
3	0.87566	0.21	0.03	35.86	36.10	56.00	19.90	QP
4	1.065	0.21	0.03	35.76	36.00	56.00	20.00	QP
5	1.456	0.22	0.03	35.43	35.68	56.00	20.32	QP
6	7.137	0.38	0.08	35.23	35.69	60.00	24.31	QP

 ${\tt Remarks: 1.Emission \ Level=LISN \ Factor+Cable \ Loss+Reading.}$





Site no :1#conduction Data No :46

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

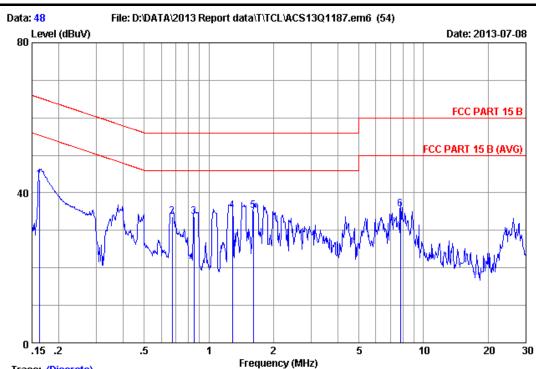
Test Mode :Running "H" Pattern And 1KHz Playing

HDMI 2:1920*1080@60Hz

	LISN Cable			Emission				
No 	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16501	0.21	0.01	43.34	43.56	65.21	21.65	QP
2	0.89441	0.24	0.03	35.80	36.07	56.00	19.93	QP
3	1.037	0.24	0.03	34.36	34.63	56.00	21.37	QP
4	1.418	0.26	0.03	34.12	34.41	56.00	21.59	QP
5	1.839	0.28	0.04	34.51	34.83	56.00	21.17	QP
6	6.352	0.38	0.08	31.08	31.54	60.00	28.46	QP

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





Trace: (Discrete)

:1#conduction Site no Data No

Dis./Ant. : ** 2012 ESH2-Z5 LINE

:FCC PART 15 B Limit

Env./Ins. :26.5*C/63% Engineer : Nick_Huang

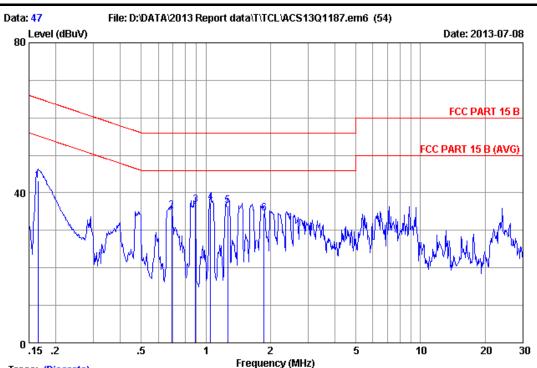
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :USB1 Playing

	LISN Cable				Emissior			
No	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16241	0.19	0.01	43.20	43.40	65.34	21.94	QP
2	0.67544	0.20	0.03	33.53	33.76	56.00	22.24	QP
3	0.85276	0.21	0.03	33.38	33.62	56.00	22.38	QP
4	1.289	0.22	0.03	34.92	35.17	56.00	20.83	QP
5	1.610	0.23	0.04	34.91	35.18	56.00	20.82	QP
6	7.810	0.40	0.09	35.24	35.73	60.00	24.27	QP

 ${\tt Remarks: 1.Emission \ Level=LISN \ Factor+Cable \ Loss+Reading.}$





Site no :1#conduction Data No :47

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

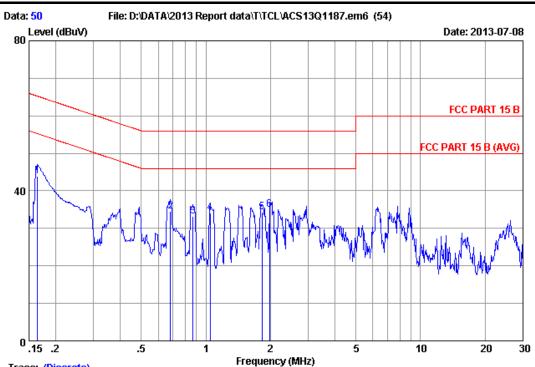
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :USB1 Playing

		LISN Cable			Emission			
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.16501	0.21	0.01	43.10	43.32	65.21	21.89	QP
2	0.69357	0.24	0.03	34.97	35.24	56.00	20.76	QP
3	0.89441	0.24	0.03	36.40	36.67	56.00	19.33	QP
4	1.054	0.24	0.03	37.14	37.41	56.00	18.59	QP
5	1.262	0.25	0.03	36.24	36.52	56.00	19.48	QP
6	1.868	0.28	0.04	34.27	34.59	56.00	21.41	QP

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





Trace: (Discrete)

Site no :1#conduction Data No

Dis./Ant. :** 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

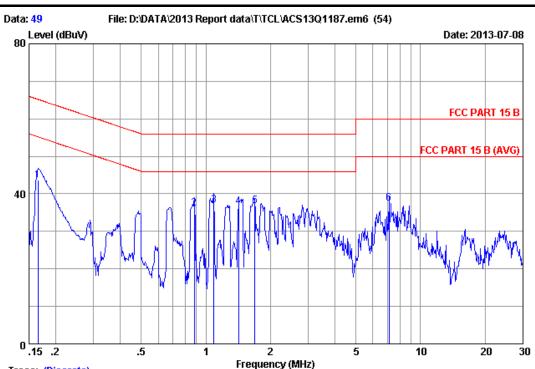
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :USB2 Playing

	LISN Cable				Emission			
No 	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16414	0.19	0.01	43.80	44.00	65.25	21.25	QP
2	0.68263	0.20	0.03	34.35	34.58	56.00	21.42	QP
3	0.87103	0.21	0.03	33.00	33.24	56.00	22.76	QP
4	1.049	0.21	0.03	33.86	34.10	56.00	21.90	QP
5	1.829	0.24	0.04	33.99	34.27	56.00	21.73	QP
6	1.980	0.24	0.04	34.78	35.06	56.00	20.94	QP

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





Trace: (Discrete)

Site no :1#conduction Data No

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

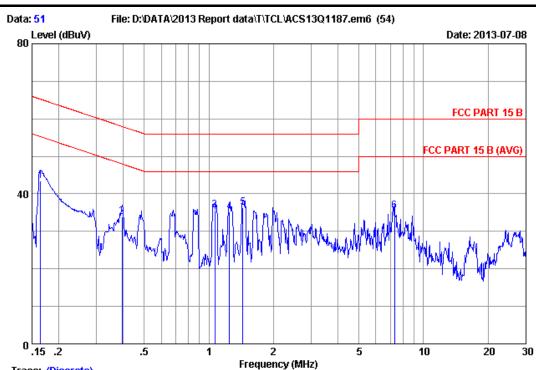
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :USB2 Playing

		LISN Cable			Emission			
No	Freq	Factor	Loss	Reading	Level	Limits	Margin	Remark
	(MHz)	(dB)	(dB)	(dBuV)	(dBuV)	(dBuV)	(dB)	
1	0.16501	0.21	0.01	43.54	43.76	65.21	21.45	QP
2	0.88499	0.24	0.03	35.74	36.01	56.00	19.99	QP
3	1.088	0.24	0.03	36.74	37.01	56.00	18.99	QP
4	1.418	0.26	0.03	36.36	36.65	56.00	19.35	QP
5	1.689	0.27	0.04	36.57	36.88	56.00	19.12	QP
6	7.137	0.40	0.08	36.86	37.34	60.00	22.66	QP

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





Trace: (Discrete)

Site no :1#conduction Data No

Dis./Ant. :** 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

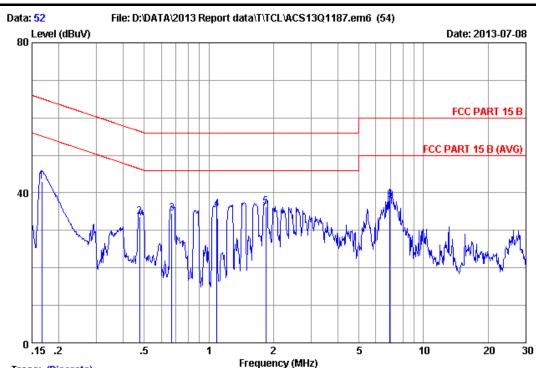
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :Component In Mode

	LISN Cable				Emission			
No	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16414	0.19	0.01	43.26	43.46	65.25	21.79	QP
2	0.39344	0.19	0.02	33.73	33.94	57.99	24.05	QP
3	1.065	0.21	0.03	35.44	35.68	56.00	20.32	QP
4	1.249	0.22	0.03	35.01	35.26	56.00	20.74	QP
5	1.441	0.22	0.03	36.15	36.40	56.00	19.60	QP
6	7.329	0.39	0.08	35.07	35.54	60.00	24.46	QP

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





Site no :1#conduction Data No :52

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

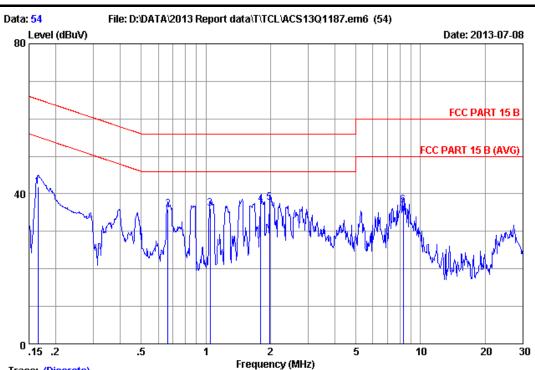
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :Component In Mode

	LISN	Cable		Emission			
Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
0.16677	0.21	0.01	42.68	42.90	65.12	22.22	QP
0.47612	0.23	0.02	33.38	33.63	56.41	22.78	QP
0.67187	0.24	0.03	34.30	34.57	56.00	21.43	QP
1.088	0.24	0.03	35.40	35.67	56.00	20.33	QP
1.839	0.28	0.04	36.01	36.33	56.00	19.67	QP
6.988	0.40	0.08	37.58	38.06	60.00	21.94	QP
	0.16677 0.47612 0.67187 1.088 1.839	Freq Factor (MHz) (dB) 0.16677 0.21 0.47612 0.23 0.67187 0.24 1.088 0.24 1.839 0.28	Freq Factor Loss (MHz) (dB) (dB) 0.16677 0.21 0.01 0.47612 0.23 0.02 0.67187 0.24 0.03 1.088 0.24 0.03 1.839 0.28 0.04	Freq Factor Loss Reading (MHz) (dB) (dB) (dBuV) 0.16677 0.21 0.01 42.68 0.47612 0.23 0.02 33.38 0.67187 0.24 0.03 34.30 1.088 0.24 0.03 35.40 1.839 0.28 0.04 36.01	Freq (MHz) Factor (dB) Loss (dB) (dBuV) Level (dBuV) 0.16677 0.21 0.01 42.68 42.90 0.47612 0.23 0.02 33.38 33.63 0.67187 0.24 0.03 34.30 34.57 1.088 0.24 0.03 35.40 35.67 1.839 0.28 0.04 36.01 36.33	Freq (MHz) Factor (dB) Loss (dB) Reading (dBuV) Level (dBuV) Limits (dBuV) 0.16677 0.21 0.01 42.68 42.90 65.12 0.47612 0.23 0.02 33.38 33.63 56.41 0.67187 0.24 0.03 34.30 34.57 56.00 1.088 0.24 0.03 35.40 35.67 56.00 1.839 0.28 0.04 36.01 36.33 56.00	Freq (MHz) Factor (dB) Loss (dB) Reading (dBuV) Level (dBuV) Limits (dBuV) Margin (dBuV) 0.16677 0.21 0.01 42.68 42.90 65.12 22.22 0.47612 0.23 0.02 33.38 33.63 56.41 22.78 0.67187 0.24 0.03 34.30 34.57 56.00 21.43 1.088 0.24 0.03 35.40 35.67 56.00 20.33 1.839 0.28 0.04 36.01 36.33 56.00 19.67

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





Data No

:54

Trace: (Discrete)

Site no :1#conduction

Dis./Ant. :** 2012 ESH2-Z5 LINE

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

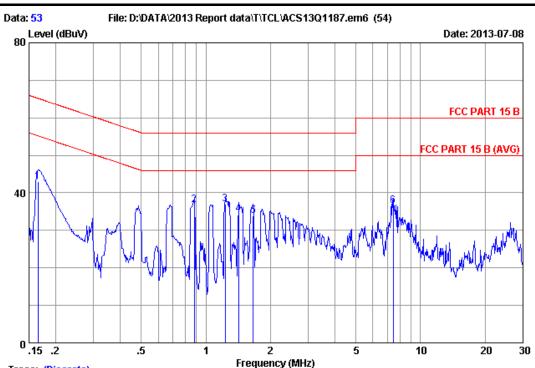
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :AV IN Mode

		LISN	Cable		Emissior	1		
No	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16501	0.19	0.01	41.72	41.92	65.21	23.29	QP
2	0.66478	0.20	0.03	35.74	35.97	56.00	20.03	QP
3	1.049	0.21	0.03	35.84	36.08	56.00	19.92	QP
4	1.800	0.23	0.04	37.02	37.29	56.00	18.71	QP
5	1.980	0.24	0.04	37.37	37.65	56.00	18.35	QP
6	8.323	0.41	0.09	36.49	36.99	60.00	23.01	QP

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





Site no :1#conduction Data No :53

Dis./Ant. :** 2012 ESH2-Z5 NEUTRAL

Limit :FCC PART 15 B

Env./Ins. :26.5*C/63% Engineer :Nick_Huang

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :AV IN Mode

		LISN	Cable		Emissior	ı		
No	Freq (MHz)	Factor (dB)	Loss (dB)	Reading (dBuV)	Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.16501	0.21	0.01	42.88	43.10	65.21	22.11	QP
2	0.88499	0.24	0.03	36.50	36.77	56.00	19.23	QP
3	1.229	0.25	0.03	36.74	37.02	56.00	18.98	QP
4	1.418	0.26	0.03	34.08	34.37	56.00	21.63	QP
5	1.662	0.27	0.04	33.67	33.98	56.00	22.02	QP
6	7.446	0.41	0.08	36.00	36.49	60.00	23.51	QP

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



4. RADIATED EMISSION MEASUREMENT

4.1.Test Equipment

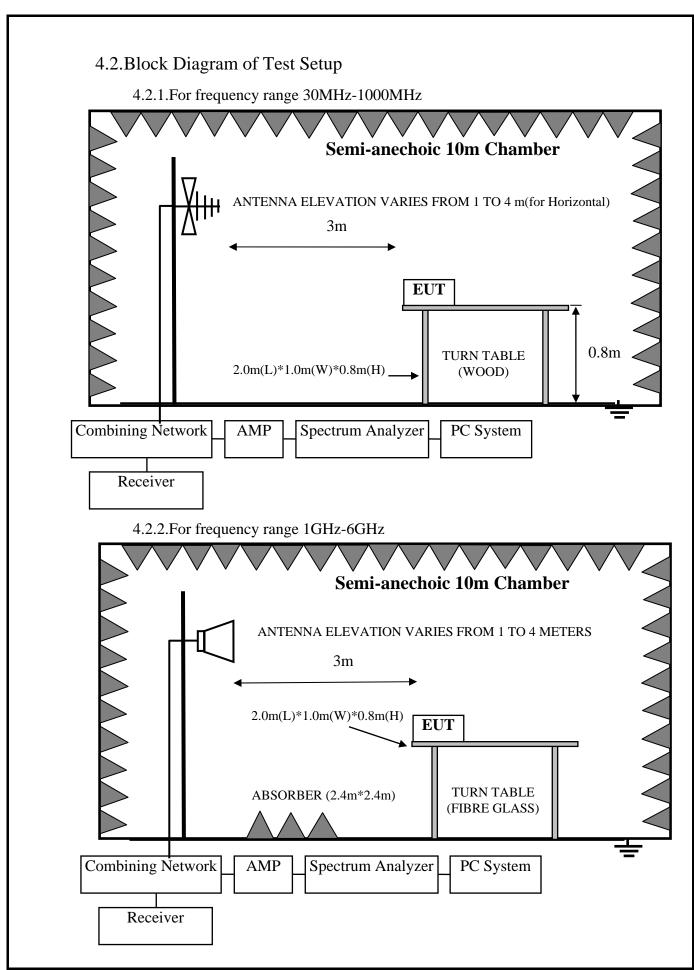
4.1.1. For frequency range 30MHz~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	10m Chamber	AUDIX	N/A	N/A	Nov.25,12	1 Year
2	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 12	1 Year
3	Test Receiver	Rohde & Schwarz	ESCI	100843	Oct.31, 12	1 Year
4	Amplifier	Agilent	8447D	2944A10684	May.08, 13	1 Year
5	Trilog-Broadban d Antenna	SCHWARZBECK	VULB 9168	9168-493	Mar.14, 13	1 Year
6	RF Cable	MIYAZAKI	CFD400-NL	10m Chamber No.1	May.08, 13	1 Year
7	Coaxial Switch	Anritsu	MP59B	M73989	May.08, 13	1 Year
8	Coaxial Switch	Anritsu	MP59B	6200766905	May.08, 13	1 Year

4.1.2.For frequency range 1GHz~6GHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Oct.31, 12	1 Year
2	Horn Antenna	EMCO	3115	9607-4877	Aug.28, 13	1 Year
3	Amplifier	Agilent	8449B	3008A00863	May.08, 13	1 Year
4	RF Cable	Hubersuhner	SUCOFLEX106	77980/6	May.08, 13	1 Year
5	RF Cable	Hubersuhner	SUCOFLEX106	77977/6	May.08, 13	1 Year







4.3. Radiated Emission Limit

Frequency	Distance	Field Strengths Limits		
MHz	(Meters)	$dB(\mu V)/m$		
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 ESCI) 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 Emission Test Results

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

EUT: LCD Monitor Model No.: H46F3500G

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: Aug.06, 2013 Temperature: 24°C Humidity: 65%

The details of test modes are as follows:

No.	Input Port	Resolution & Frequency	Reference Test Data No.		
NO.	Input Fort	Resolution & Frequency	Horizontal	Vertical	
1.		640*480/60Hz	#54	#53	
2.	VGA	VGA 1024*768/60Hz		#52	
3. 💥		1920*1080/60Hz	#50	#49	
4.	HDMI 1	1920*1080/60Hz	#60	#59	
5.	HDMI 2	1920*1080/60Hz	#62	#61	
6.	USB 1 Playing		#64	#63	
7.	USB 2 Playing		#66	#65	
8.	Component In Mode		#58	#57	
9.	AV In Mode		#55	#56	

^{(*} Worst test mode)

For frequency range 1GHz~6GHz

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

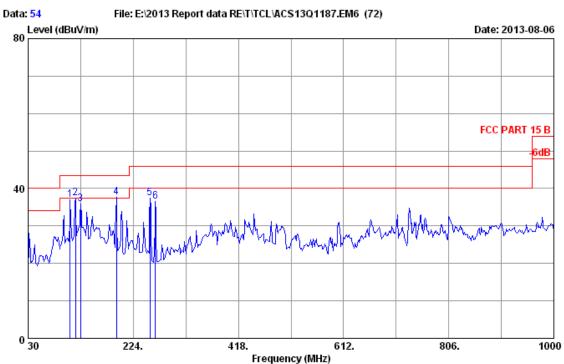
Note: For all the emissions above 1GHz, the peak measured level comply with peak limit, so the average level were deemed to comply with average limit.

Test Date: Aug.06, 2013 Temperature: 24°C Humidity: 56%

Ma	In most Dont	Desclution & Engagement	Reference Test Data No.		
No.	Input Port	Resolution & Frequency	Horizontal	Vertical	
1.	VGA	1920*1080/60Hz	#68	#67	
2.	HDMI 1	1920*1080/60Hz	#69	#70	
3.	HDMI 2	1920*1080/60Hz	#71	#72	



30MHz~1000MHz



Site no :10m Chamber Data No :54

Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G Power Rating :AC 120V/60Hz

Test Mode :Running "H" Pattern And 1KHz Playing

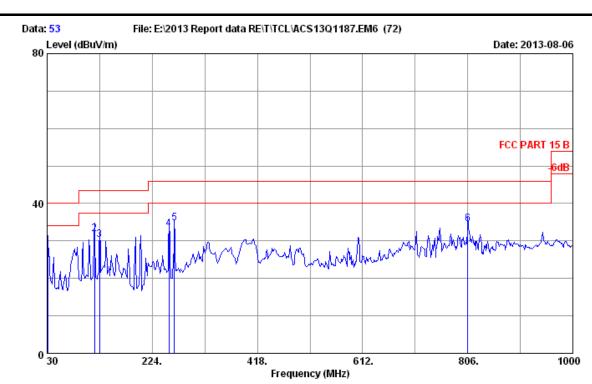
:VGA:640*480@60Hz

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	107.600	10.89	4.03	22.16	37.08	43.50	6.42	QP
2	117.300	11.94	4.07	21.46	37.47	43.50	6.03	QP
3	127.000	12.62	4.11	19.07	35.80	43.50	7.70	QP
4	192.960	10.30	4.37	22.97	37.64	43.50	5.86	QP
5	255.040	11.67	4.62	21.06	37.35	46.00	8.65	QP
6	264.740	11.92	4.66	19.94	36.52	46.00	9.48	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 :10m Chamber Data No :53
Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

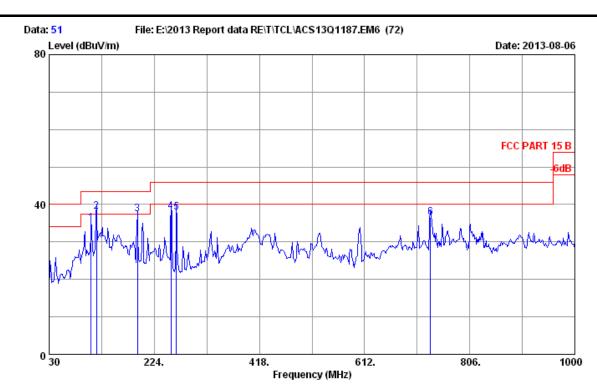
:VGA:640*480@60Hz

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	3.69	11.68	28.66	40.00	11.34	QP
2	117.300	11.94	4.07	15.85	31.86	43.50	11.64	QP
3	127.000	12.62	4.11	13.52	30.25	43.50	13.25	QP
4	255.040	11.67	4.62	17.01	33.30	46.00	12.70	QP
5	264.740	11.92	4.66	18.13	34.71	46.00	11.29	QP
6	806.000	20.74	6.39	7.49	34.62	46.00	11.38	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 :10m Chamber Data No :51

Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

Test Mode : Running "H" Pattern And 1KHz Playing

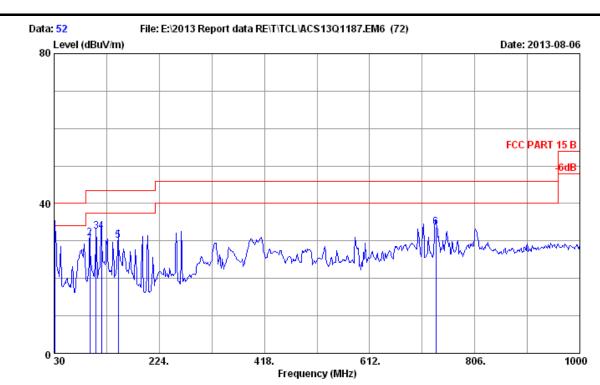
:VGA:1024*768@60Hz

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	107.600	10.89	4.03	20.09	35.01	43.50	8.49	QP
2	117.300	11.94	4.07	22.00	38.01	43.50	5.49	QP
3	192.960	10.30	4.37	22.68	37.35	43.50	6.15	QP
4	255.040	11.67	4.62	21.83	38.12	46.00	7.88	QP
5	264.740	11.92	4.66	21.21	37.79	46.00	8.21	QP
6	733.250	20.07	6.13	10.36	36.56	46.00	9.44	QP

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

2. The emission Levels that are 20db below the official limit are not reported $% \left(1\right) =\left(1\right) +\left(1\right) +\left($





Site no :10m Chamber Data No :52
Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

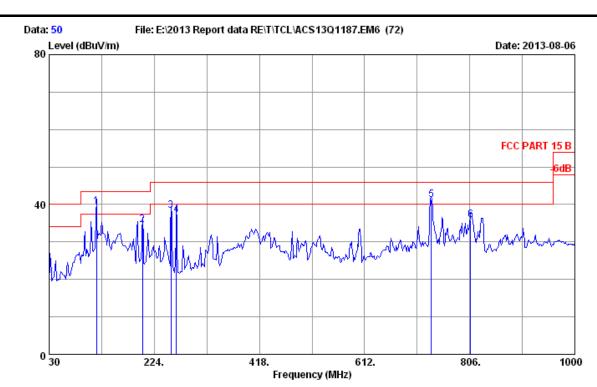
Test Mode :Running "H" Pattern And 1KHz Playing

: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	31.940	13.29	3.69	15.83	32.81	40.00	7.19	QP
2	95.960	9.86	3.98	17.01	30.85	43.50	12.65	QP
3	107.600	10.89	4.03	17.51	32.43	43.50	11.07	QP
4	117.300	11.94	4.07	16.46	32.47	43.50	11.03	QP
5	148.340	14.05	4.19	11.75	29.99	43.50	13.51	QP
6	734.220	20.08	6.13	7.54	33.75	46.00	12.25	QP

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





Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

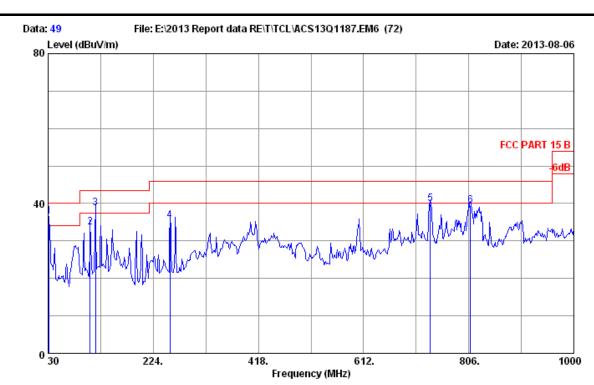
Test Mode :Running "H" Pattern And 1KHz Playing

: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	117.300	11.94	4.07	23.47	39.48	43.50	4.02	QP
2	202.660	9.95	4.41	20.21	34.57	43.50	8.93	QP
3	255.040	11.67	4.62	22.15	38.44	46.00	7.56	QP
4	264.740	11.92	4.66	20.65	37.23	46.00	8.77	QP
5	735.190	20.09	6.14	14.92	41.15	46.00	4.85	QP
6	807.940	20.75	6.40	8.75	35.90	46.00	10.10	QP

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





Site no :10m Chamber Data No :49
Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

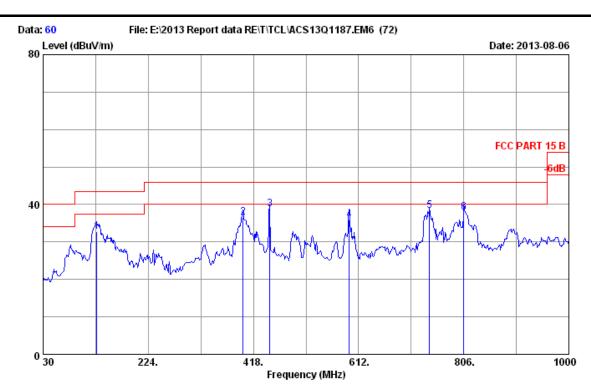
Test Mode : Running "H" Pattern And 1KHz Playing

: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	31.940	13.29	3.69	19.59	36.57	40.00	3.43	QP
2	107.600	10.89	4.03	18.80	33.72	43.50	9.78	QP
3	117.300	11.94	4.07	22.81	38.82	43.50	4.68	QP
4	255.040	11.67	4.62	19.25	35.54	46.00	10.46	QP
5	735.190	20.09	6.14	13.73	39.96	46.00	6.04	QP
6	808.910	20.76	6.40	12.30	39.46	46.00	6.54	QP

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





Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

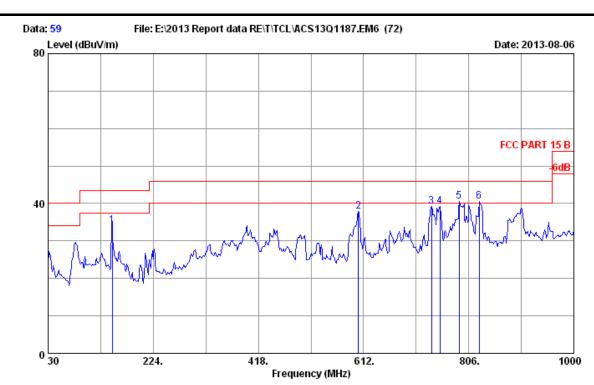
Test Mode : Running "H" Pattern And 1KHz Playing

: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	128.940	12.73	4.12	15.95	32.80	43.50	10.70	QP
2	398.600	14.72	5.04	16.83	36.59	46.00	9.41	QP
3	448.070	15.92	5.16	17.74	38.82	46.00	7.18	QP
4	594.540	18.21	5.63	11.99	35.83	46.00	10.17	QP
5	742.950	20.19	6.16	11.92	38.27	46.00	7.73	QP
6	806.000	20.74	6.39	10.75	37.88	46.00	8.12	QP

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





Site no :10m Chamber Data No :59
Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

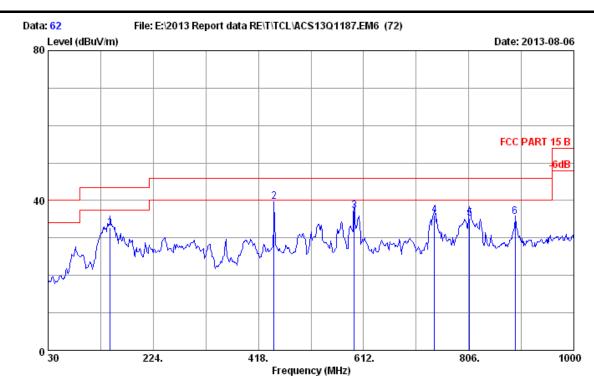
Test Mode : Running "H" Pattern And 1KHz Playing

: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	148.340	14.05	4.19	15.88	34.12	43.50	9.38	QP
2	602.300	18.36	5.66	13.88	37.90	46.00	8.10	QP
3	737.130	20.12	6.14	12.88	39.14	46.00	6.86	QP
4	752.650	20.30	6.20	12.68	39.18	46.00	6.82	QP
5	788.540	20.63	6.33	13.55	40.51	46.00	5.49	QP
6	825.400	20.87	6.45	13.17	40.49	46.00	5.51	QP

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





Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

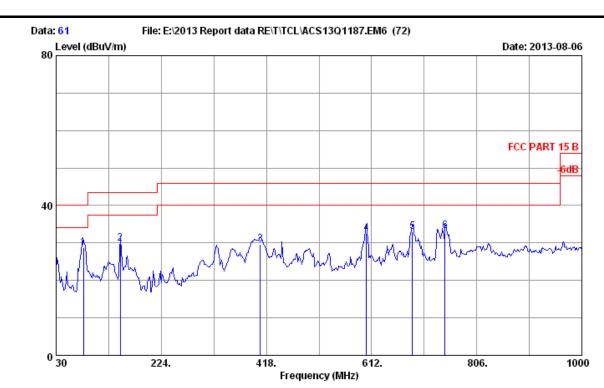
Test Mode :Running "H" Pattern And 1KHz Playing

:HDMI 2:1920*1080@60Hz

Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
144.460	13.80	4.18	14.88	32.86	43.50	10.64	QP
447.100	15.90	5.16	18.56	39.62	46.00	6.38	QP
594.540	18.21	5.63	13.33	37.17	46.00	8.83	QP
742.950	20.19	6.16	9.82	36.17	46.00	9.83	QP
807.940	20.75	6.40	8.10	35.25	46.00	10.75	QP
891.360	21.53	6.66	7.42	35.61	46.00	10.39	QP
	(MHz) 144.460 447.100 594.540 742.950 807.940	Freq Factor (MHz) (dB/m) 144.460 13.80 447.100 15.90 594.540 18.21 742.950 20.19 807.940 20.75	Freq Factor Loss (MHz) (dB/m) (dB) 144.460 13.80 4.18 447.100 15.90 5.16 594.540 18.21 5.63 742.950 20.19 6.16 807.940 20.75 6.40	Freq Factor Loss Reading (MHz) (dB/m) (dB) (dBuV) 144.460 13.80 4.18 14.88 447.100 15.90 5.16 18.56 594.540 18.21 5.63 13.33 742.950 20.19 6.16 9.82 807.940 20.75 6.40 8.10	Freq Factor Loss Reading Level (MHz) (dB/m) (dB) (dBuV) (dBuV/m) 144.460 13.80 4.18 14.88 32.86 447.100 15.90 5.16 18.56 39.62 594.540 18.21 5.63 13.33 37.17 742.950 20.19 6.16 9.82 36.17 807.940 20.75 6.40 8.10 35.25	Freq Factor Loss Reading Level Limits (MHz) (dB/m) (dB) (dBuV) (dBuV/m) (dBuV/m) 144.460 13.80 4.18 14.88 32.86 43.50 447.100 15.90 5.16 18.56 39.62 46.00 594.540 18.21 5.63 13.33 37.17 46.00 742.950 20.19 6.16 9.82 36.17 46.00 807.940 20.75 6.40 8.10 35.25 46.00	Freq Factor (MHz) Loss (dB/m) Reading (dBuV) Level (dBuV/m) Limits (dBuV/m) Margin (dBuV/m) 144.460 13.80 4.18 14.88 32.86 43.50 10.64 447.100 15.90 5.16 18.56 39.62 46.00 6.38 594.540 18.21 5.63 13.33 37.17 46.00 8.83 742.950 20.19 6.16 9.82 36.17 46.00 9.83 807.940 20.75 6.40 8.10 35.25 46.00 10.75

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





Site no :10m Chamber Data No :61
Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz

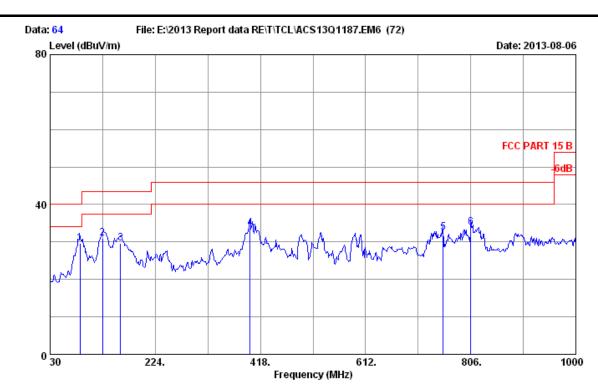
Test Mode : Running "H" Pattern And 1KHz Playing

: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	80.440	9.30	3.93	15.42	28.65	40.00	11.35	QP
2	148.340	14.05	4.19	11.53	29.77	43.50	13.73	QP
3	406.360	14.90	5.06	9.58	29.54	46.00	16.46	QP
4	602.300	18.36	5.66	8.55	32.57	46.00	13.43	QP
5	687.660	19.52	5.97	7.54	33.03	46.00	12.97	QP
6	747.800	20.24	6.18	6.72	33.14	46.00	12.86	QP

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





Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

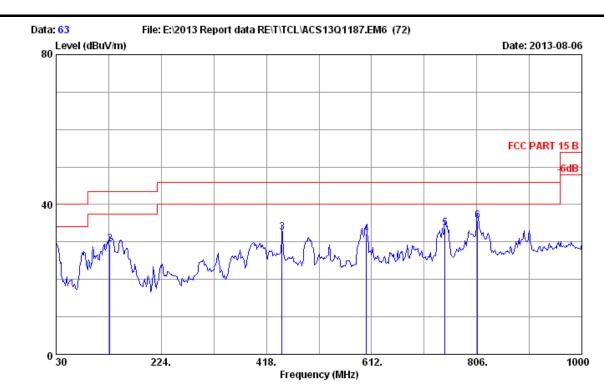
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :USB 1 Playing

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	85.290	9.37	3.94	16.38	29.69	40.00	10.31	QP
2	127.000	12.62	4.11	14.14	30.87	43.50	12.63	QP
3	159.980	14.14	4.24	11.21	29.59	43.50	13.91	QP
4	398.600	14.72	5.04	13.97	33.73	46.00	12.27	QP
5	755.560	20.33	6.21	6.10	32.64	46.00	13.36	QP
6	806.000	20.74	6.39	6.81	33.94	46.00	12.06	QP

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





Site no :10m Chamber Data No :63
Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

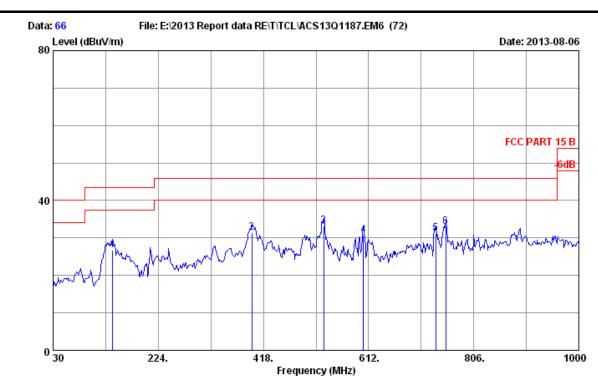
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :USB 1 Playing

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.000	13.22	3.68	10.46	27.36	40.00	12.64	QP
2	128.940	12.73	4.12	12.59	29.44	43.50	14.06	QP
3	447.100	15.90	5.16	11.41	32.47	46.00	13.53	QP
4	602.300	18.36	5.66	8.01	32.03	46.00	13.97	QP
5	747.800	20.24	6.18	7.33	33.75	46.00	12.25	QP
6	807.940	20.75	6.40	8.43	35.58	46.00	10.42	QP

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





Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

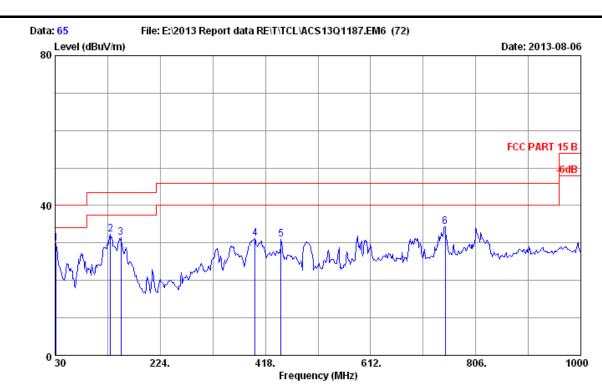
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :USB 2 Playing

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	139.610	13.48	4.16	9.00	26.64	43.50	16.86	QP
2	396.660	14.68	5.04	11.77	31.49	46.00	14.51	QP
3	529.550	17.04	5.40	10.71	33.15	46.00	12.85	QP
4	602.300	18.36	5.66	6.63	30.65	46.00	15.35	QP
5	736.160	20.10	6.14	4.95	31.19	46.00	14.81	QP
6	754.590	20.32	6.21	6.54	33.07	46.00	12.93	QP

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





Site no :10m Chamber Data No :65
Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

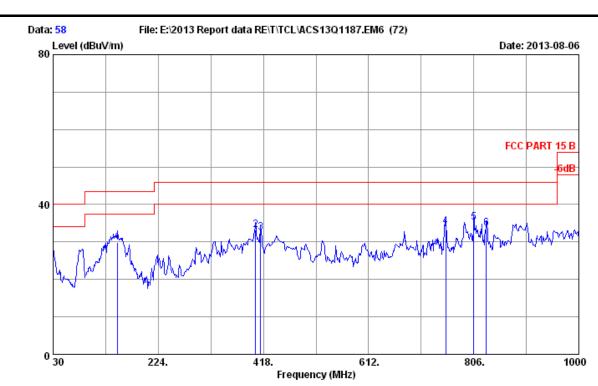
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz Test Mode :USB 2 Playing

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	3.69	12.78	29.76	40.00	10.24	QP
2	131.850	12.92	4.13	15.37	32.42	43.50	11.08	QP
3	151.250	14.16	4.20	12.97	31.33	43.50	12.17	QP
4	398.600	14.72	5.04	11.47	31.23	46.00	14.77	QP
5	447.100	15.90	5.16	9.92	30.98	46.00	15.02	QP
6	749.740	20.27	6.19	7.94	34.40	46.00	11.60	QP

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





Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz
Test Mode :Component In Mode

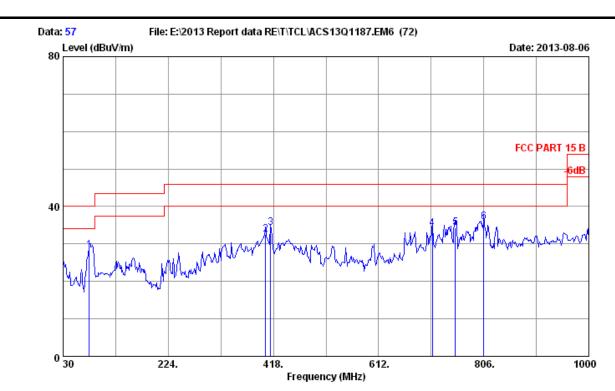
No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	149.310	14.12	4.20	11.56	29.88	43.50	13.62	QP
2	403.450	14.83	5.05	13.29	33.17	46.00	12.83	QP
3	413.150	15.08	5.08	12.37	32.53	46.00	13.47	QP
4	754.590	20.32	6.21	7.52	34.05	46.00	11.95	QP
5	806.000	20.74	6.39	8.06	35.19	46.00	10.81	QP
6	829.280	20.90	6.46	6.21	33.57	46.00	12.43	QP

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

2. The emission Levels that are 20db below the official limit are not reported

Audix Technology (Shenzhen) Co., Ltd. Report No. ACS-F13249





Site no :10m Chamber Data No :57
Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

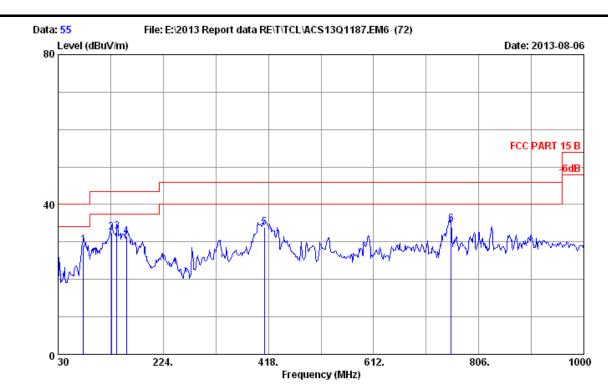
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz
Test Mode :Component In Mode

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	78.500	9.52	3.92	14.82	28.26	40.00	11.74	QP
2	403.450	14.83	5.05	12.64	32.52	46.00	13.48	QP
3	413.150	15.08	5.08	14.11	34.27	46.00	11.73	QP
4	710.940	19.78	6.05	8.24	34.07	46.00	11.93	QP
5	753.620	20.31	6.20	7.81	34.32	46.00	11.68	QP
6	806.000	20.74	6.39	8.68	35.81	46.00	10.19	QP

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





Dis./Ant. :3m 2013 9168-493 3M Ant.pol :HORIZONTAL

Limit :FCC PART 15 B

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating : AC 120V/60Hz Test Mode : AV IN Mode

:

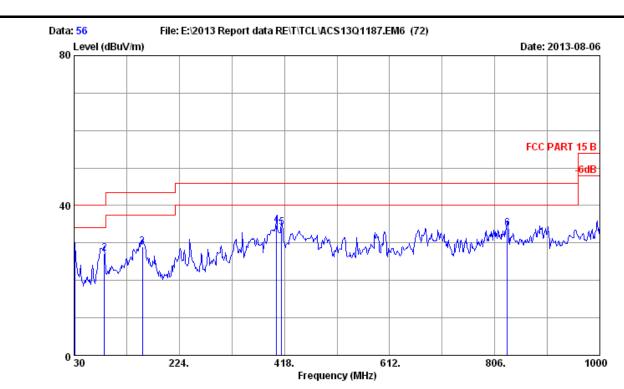
No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	76.560	9.82	3.91	15.53	29.26	40.00	10.74	QP
2	127.970	12.68	4.11	15.72	32.51	43.50	10.99	QP
3	138.640	13.41	4.15	15.16	32.72	43.50	10.78	QP
4	156.100	14.15	4.22	12.97	31.34	43.50	12.16	QP
5	410.240	15.00	5.07	13.80	33.87	46.00	12.13	QP
6	755.560	20.33	6.21	8.25	34.79	46.00	11.21	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 :10m Chamber Data No :56 Dis./Ant. :3m 2013 9168-493 3M Ant.pol :VERTICAL

:FCC PART 15 B Limit

Env./Ins. :24*C/56% Engineer :sun zeng

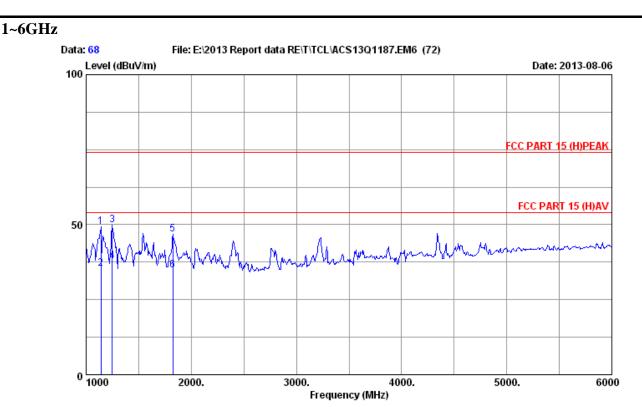
EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 120V/60Hz :AV IN Mode Test Mode

No	Freq (MHz)	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	30.970	13.25	3.69	12.21	29.15	40.00	10.85	QP
2	86.260	9.38	3.95	13.92	27.25	40.00	12.75	QP
3	156.100	14.15	4.22	10.64	29.01	43.50	14.49	QP
4	403.450	14.83	5.05	14.91	34.79	46.00	11.21	QP
5	413.150	15.08	5.08	13.96	34.12	46.00	11.88	QP
6	829.280	20.90	6.46	6.57	33.93	46.00	12.07	QP

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





Dis./Ant. :3m 2012 3115 95104877 Ant.pol :HORIZONTAL

Limit :FCC PART 15 (H) PEAK

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 240V/50Hz

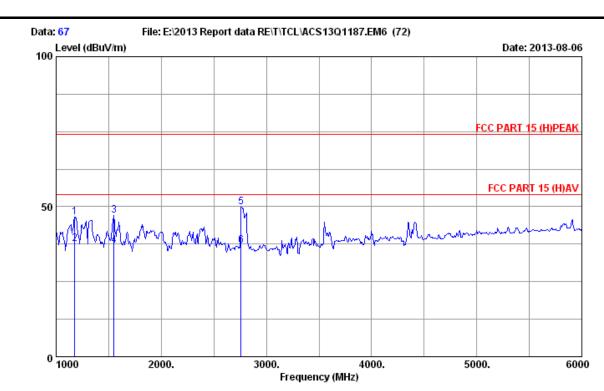
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz

		ANT	Cable	AMP		Emissio:	n		
No	Freq (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1140.000	23.38	1.56	34.08	58.50	49.36	74.00	24.64	Peak
2	1140.225	23.38	1.56	34.08	44.44	35.30	54.00	18.70	Average
3	1250.000	23.62	1.65	33.91	58.44	49.80	74.00	24.20	Peak
4	1250.142	23.62	1.66	33.91	46.48	37.85	54.00	16.15	Average
5	1825.000	24.17	2.23	33.41	53.79	46.78	74.00	27.22	Peak
6	1825.241	24.17	2.23	33.41	41.81	34.80	54.00	19.20	Average

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





Dis./Ant. :3m 2012 3115 95104877 Ant.pol :VERTICAL

Limit :FCC PART 15 (H) PEAK

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 240V/50Hz

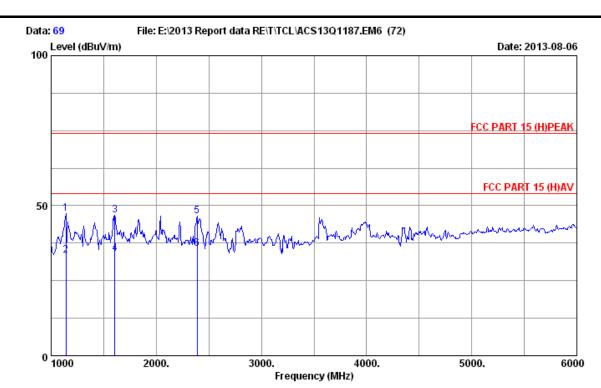
Test Mode : Running "H" Pattern And 1KHz Playing

VGA:1920*1080@60Hz

		ANT	Cable	AMP		Emissio:	n		
No	Freq (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1175.000	23.44	1.59	34.01	55.54	46.56	74.00	27.44	Peak
2	1175.118	23.44	1.59	34.01	46.61	37.63	54.00	16.37	Average
3	1550.000	24.11	1.92	33.54	54.65	47.14	74.00	26.86	Peak
4	1550.320	24.11	1.92	33.54	44.42	36.91	54.00	17.09	Average
5	2760.000	25.03	2.95	33.38	55.39	49.99	74.00	24.01	Peak
6	2760.288	25.03	2.95	33.38	42.39	36.99	54.00	17.01	Average

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





Dis./Ant. :3m 2012 3115 95104877 Ant.pol :HORIZONTAL

Limit :FCC PART 15 (H) PEAK

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 240V/50Hz

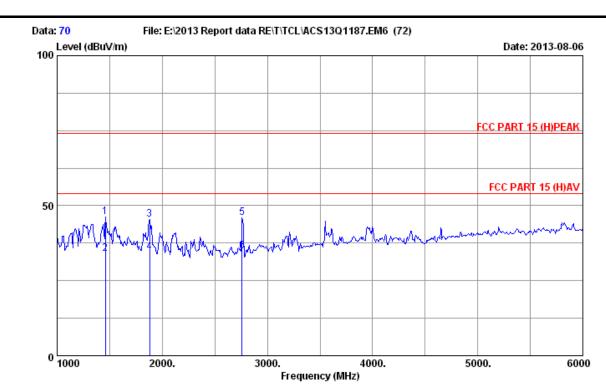
Test Mode : Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz

		ANT	Cable	AMP		Emissio:	n		
No	Freq (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1140.000	23.38	1.56	34.08	56.42	47.28	74.00	26.72	Peak
2	1140.322	23.38	1.57	34.05	42.41	33.31	54.00	20.69	Average
3	1605.000	24.12	1.98	33.51	54.30	46.89	74.00	27.11	Peak
4	1605.187	24.12	1.98	33.51	41.29	33.88	54.00	20.12	Average
5	2390.000	23.80	2.77	33.40	53.37	46.54	74.00	27.46	Peak
6	2390.324	23.80	2.77	33.40	42.35	35.52	54.00	18.48	Average

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





Dis./Ant. :3m 2012 3115 95104877 Ant.pol :VERTICAL

Limit :FCC PART 15 (H) PEAK

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 240V/50Hz

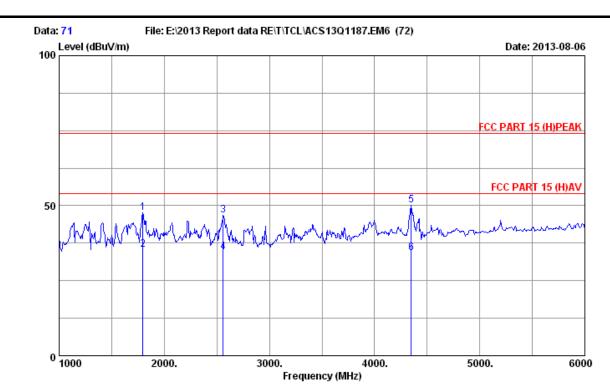
Test Mode :Running "H" Pattern And 1KHz Playing

HDMI 1:1920*1080@60Hz

		ANT	Cable	AMP		Emissio:	n		
No	Freq (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1460.000	24.03	1.83	33.63	54.03	46.26	74.00	27.74	Peak
2	1460.322	24.03	1.83	33.63	41.80	34.03	54.00	19.97	Average
3	1880.000	24.18	2.29	33.38	52.41	45.50	74.00	28.50	Peak
4	1880.156	24.18	2.29	33.38	41.48	34.57	54.00	19.43	Average
5	2760.000	25.03	2.95	33.38	51.29	45.89	74.00	28.11	Peak
6	2760.421	25.03	2.95	33.38	40.22	34.82	54.00	19.18	Average

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





Dis./Ant. :3m 2012 3115 95104877 Ant.pol :HORIZONTAL

Limit :FCC PART 15 (H) PEAK

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

Power Rating :AC 240V/50Hz

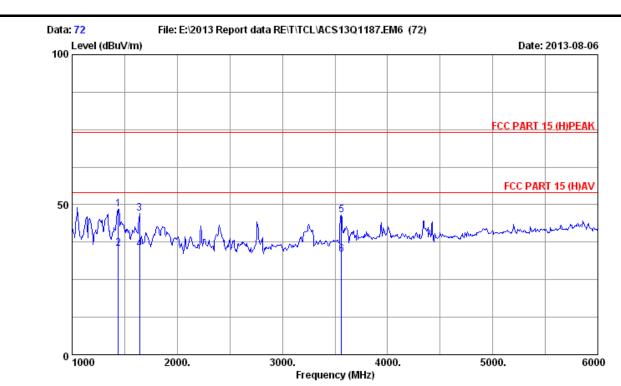
Test Mode :Running "H" Pattern And 1KHz Playing

HDMI 2:1920*1080@60Hz

		ANT	Cable	AMP		Emissio:	n		
No	Freq (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1795.000	24.16	2.20	33.43	54.58	47.51	74.00	26.49	Peak
2	1795.112	24.16	2.20	33.43	42.52	35.45	54.00	18.55	Average
3	2560.000	24.03	2.88	33.41	53.18	46.68	74.00	27.32	Peak
4	2560.275	24.03	2.88	33.41	41.16	34.66	54.00	19.34	Average
5	4350.000	30.80	3.92	33.06	48.58	50.24	74.00	23.76	Peak
6	4350.178	30.80	3.92	33.06	32.53	34.19	54.00	19.81	Average

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





Dis./Ant. :3m 2012 3115 95104877 Ant.pol :VERTICAL

Limit :FCC PART 15 (H) PEAK

Env./Ins. :24*C/56% Engineer :sun zeng

EUT :LCD Monitor M/N:H46F3500G

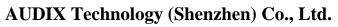
Power Rating :AC 240V/50Hz

Test Mode :Running "H" Pattern And 1KHz Playing

HDMI 2:1920*1080@60Hz

		ANT	Cable	AMP		Emissio:	n		
No	Freq (MHz)	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1440.000	24.00	1.81	33.67	56.36	48.50	74.00	25.50	Peak
2	1440.332	24.00	1.81	33.67	43.37	35.51	54.00	18.49	Average
3	1640.000	24.13	2.02	33.50	54.36	47.01	74.00	26.99	Peak
4	1640.185	24.13	2.02	33.50	42.32	34.97	54.00	19.03	Average
5	3560.000	29.08	3.47	33.29	47.22	46.48	74.00	27.52	Peak
6	3560.342	29.08	3.47	33.29	34.28	33.54	54.00	20.46	Average

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





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5. DEVIATION TO TEST SPECIFICATIONS [NONE]