

FCC 47 CFR PART 15 SUBPART B TEST REPORT

For

Applicant: Shenyang Torch-Bigtide Digital Technology Co., Ltd

No. 18-6B, Yaoyang Road, Huishan Economic Development Area,

Shenbei New District, Shenyang

Product Name: 19" LCD Monitor

Model Number: HL1916SM, HL1916, HL1916AMT-L, HL1916AMT-R

Brand Name: N/A

FCC ID: W6519LCD1916SM

Report No.: MTE/SAL/F14060620

Date of Issue: Jun. 18, 2014

Issued by: Most Technology Service Co., Ltd.

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Report No.: MTE/SAL/F14060620

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1. VERIFICATION OF CONFORMITY

Equipment Under Test: 19" LCD Monitor

Brand Name: N/A

Model Number: HL1916SM, HL1916, HL1916AMT-R

Series Number: HL1916AMT-L

FCC ID: W6519LCD1916SM

Applicant: Shenyang Torch-Bigtide Digital Technology Co., Ltd

NO. 18-6B ,Yaoyang Road , Huishan Economic

Development Area, Shenbei New District, Shenyang

Manufacturer: Shenyang Torch-Bigtide Digital Technology Co., Ltd

NO. 18-6B ,Yaoyang Road , Huishan Economic

Development Area, Shenbei New District, Shenyang

Technical Standards: FCC Part 15 B

File Number: MTE/SAL/F14060620

Date of test: May 30-June 04. 2014

Deviation: None **Condition of Test Sample:** Normal

The above equipment was tested by MOST for compliance with the requirements set forth in FCC Part 15 and the Technical Standards mentioned above. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment and the level of the immunity endurance of the equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Tested by (+ signature):		Gul		_
	Sophia Liu		May 30, 2014	
Review by (+ signature):		Henry		APPROVED
	Henry Chen		Jun. 18, 2014	* EMC & SAFETY *
Approved by (+ signature):		Mus		_
	Yvetter Zhou(I	Manager)	Jun. 18. 2014	

2. GENERAL INFORMATION

2.1 PRODUCT INFORMATION

Description:	19" LCD Monitor
Model Name:	HL1916SM, HL1916, HL1916AMT-R
Series Number:	HL1916AMT-L
Model Difference description:	HL1916AMT-R with screen-touch; HL1916AMT-L without screen-touch; HL1916 without screen-touch and USB port; HL1916SM with different PCB location.
Power Supply:	AC 100V-240V, 50/60Hz
Temperature Range:	-20°C ~ +50°C

NOTE:

1. For a more detailed features description about the EUT, please refer to User's Manual.

2.2 OBJECTIVE

Perform FCC Part 15 Subpart B tests for FCC Marking.

2.3 TEST STANDARDS AND RESULTS

Test items and the results are as bellow:

EMISSION						
Standard	Item	Result	Remarks			
FCC 47 CFR Part 15 Subpart B	Conducted	PASS	Meet Class B limit			
1 CC 47 CI K Fait 19 Subpart B	Radiated	PASS	Meet Class B limit			

Note: 1. The test result judgment is decided by the limit of measurement standard

2. The information of measurement uncertainty is available upon the customer's request.

2.4 ENVIRONMENTAL CONDITIONS

During the measurement the environmental conditions were within the listed ranges:

- Temperature: 15-35°C - Humidity: 30-60 %

- Atmospheric pressure: 86-106 kPa

2.5 MEASUREMENT UNCERTAINTY

The uncertainty is calculated using the methods suggested in the "Guide to the Expression of Uncertainty in Measurement" (GUM) published by ISO.

The report uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2,Providing a level of confidence of approximately 95%

- Uncertainty of Conducted Emission, Uc = ±1.8dB
- Uncertainty of Radiated Emission, Uc = ±3.2dB

3. TEST METHODOLOGY

3. 1TEST FACILITY

Test Site: Most Technology Service Co., Ltd.

Location: No.5, Langshan 2nd Rd, North Hi-Tech Industrial park, Nanshan, Shenzhen,

Guangdong, China

Description: There is one 3m semi-anechoic an area test sites and two line conducted labs for final

test. The Open Area Test Sites and the Line Conducted labs are constructed and calibrated to meet the FCC requirements in documents ANSI C63.4:2009 and CISPR

16 requirements. The FCC Registration Number is 490827.

The CNAS Registration Number is CNAS L3573.

Site Filing: The site description is on file with the Federal Communications

Commission, 7435 Oakland Mills Road, Columbia, MD 21046.

Instrument Tolerance: All measuring equipment is in accord with ANSI C63.4:2009 and CISPR 16 requirements that meet industry regulatory agency and accreditation agency

requirement.

Ground Plane: Two conductive reference ground planes were used during the Line Conducted

Emission, one in vertical and the other in horizontal. The dimensions of these ground planes are as below. The vertical ground plane was placed distancing 40 cm to the rear of the wooden test table on where the EUT and the support equipment were placed during test. The horizontal ground plane projected 50 cm beyond the footprint of the EUT system and distanced 80 cm to the wooden test table. For Radiated Emission Test, one horizontal conductive ground plane extended at least 1m beyond the periphery of the EUT and the largest measuring antenna, and covered the entire area between the EUT and the antenna. It has no holes or gaps having longitudinal

dimensions larger than one-tenth of a wavelength at the highest frequency of

measurement up to 1GHz.

3.2 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4:2009, Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4:2009.

3.3 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090 - 0.110 10.495 - 0.505 2.1735 - 2.1905 4.125 - 4.128 4.17725 - 4.17775 4.20725 - 4.20775 6.215 - 6.218 6.26775 - 6.26825 6.31175 - 6.31225 8.291 - 8.294	16.42 - 16.423 16.69475 - 16.69525 16.80425 - 16.80475 25.5 - 25.67 37.5 - 38.25 73 - 74.6 74.8 - 75.2 108 - 121.94 123 - 138 149.9 - 150.05	399.9 - 410 608 - 614 960 - 1240 1300 - 1427 1435 - 1626.5 1645.5 - 1646.5 1660 - 1710 1718.8 - 1722.2 2200 - 2300 2310 - 2390	4.5 - 5.15 5.35 - 5.46 7.25 - 7.75 8.025 - 8.5 9.0 - 9.2 9.3 - 9.5 10.6 - 12.7 13.25 - 13.4 14.47 - 14.5 15.35 - 16.2
8.362 - 8.366 8.37625 - 8.38675 8.41425 - 8.41475 12.29 - 12.293 12.51975 - 12.52025 12.57675 - 12.57725 13.36 - 13.41	156.52475 - 156.52525 156.7 - 156.9 162.0125 - 167.17 167.72 - 173.2 240 - 285 322 - 335.4	2483.5 - 2500 2655 - 2900 3260 - 3267 3332 - 3339 3345.8 - 3358 3600 - 4400	17.7 - 21.4 22.01 - 23.12 23.6 - 24.0 31.2 - 31.8 36.43 - 36.5 (²)

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

² Above 38.6

4 SETUP OF EQUIPMENT UNDER TEST

4.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

4.2 EUT configuration

Interface cables:

Interface cable	Length	Type	Line		Line termination
	[m]		shielded	unshielded	
Power cord	1.5	three wires		\boxtimes	PC
Power cord	1.5	three wires		\boxtimes	Printer
DVI Cord	1.8	Video type		\boxtimes	PC
VGA Cord	1.8	Video type		\boxtimes	PC
USB Cord	1.8	Video type			PC

Peripheral devices:

List out all peripheral not inclued with EuT used during the test

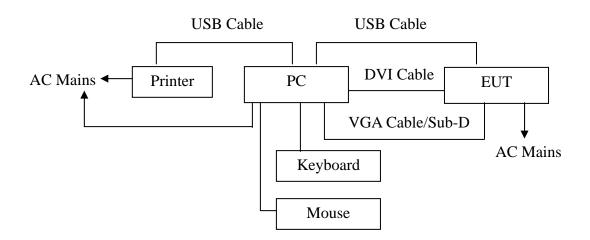
Kind of equipment	Manufacturer	Model no.
Mouse	Lenovo	M-UAE96
Keyboard	HP	SK-2880
PC	Lenovo	SS05750640
Printer	Canon	L11121E

Remark:

All the equipment/cables were placed in the worst-case [-configuration to maximize the emission during the test.

Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use

4.3 Block Diagram of connection between EUT and simulation



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4. 3 TEST EQUIPMENT LIST

Instrumentation: The following list contains equipment used at MOST for testing. The equipment conforms to the CISPR 16-1 / ANSI C63.2 Specifications for Electromagnetic Interference and Field Strength Instrumentation from 10 kHz to 1.0 GHz or above.

No.	Equipment	Manufacturer	Model No.	S/N	Calibration due date
1	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10
2	L.I.S.N.	Rohde & Schwarz ENV216		100093	2015/03/10
3	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07
4	Terminator	Hubersuhner	50Ω	No.1	2015/03/07
5	RF Cable	SchwarzBeck	N/A	No.1	2015/03/07
6	Test Receiver	Rohde & Schwarz	ESPI	101202	2015/03/10
7	Bilog Antenna	Sunol	JB3	A121206	2015/03/14
8	Test Antenna - Horn	SCHWARZBECK	BBHA9120D	756	2015/03/14
9	Test Antenna - Bi-Log	Schwarzbeck	VULB 9163		2015/03/14
10	Cable	Resenberger	N/A	NO.1	2015/03/07
11	Cable	SchwarzBeck	N/A	NO.2	2015/03/07
12	Cable	SchwarzBeck	N/A	NO.3	2015/03/07
13	DC Power Filter	DuoJi	DL2×30B	N/A	2015/03/07
14	Single Phase Power Line Filter	DuoJi	FNF 202B30	N/A	2015/03/07
15	3 Phase Power Line Filter	DuoJi	FNF 402B30	N/A	2015/03/07
16	Test Receiver	Rohde & Schwarz	ESCI	100492	2015/03/10
17	Absorbing Clamp	Luthi	MDS21	3635	2015/03/14
18	Coaxial Switch	Anritsu Corp	MP59B	6200283933	2015/03/07
19	AC Power Source	Kikusui	AC40MA	LM003232	2015/03/10
20	Test Analyzer	Kikusui	KHA1000	LM003720	2015/03/10
21	Line Impendence Network	Kikusui	LIN40MA- PCR-L	LM002352	2015/03/10
22	ESD Tester	Kikusui	KES4021	LM003537	2015/03/07
23	EMCPRO System	EM Test	UCS-500-M4	V0648102026	2015/03/10
24	Signal Generator	IFR	2032	203002/100	2015/03/10
25	Amplifier	A&R	150W1000	301584	2015/03/14
26	CDN	FCC	FCC-801-M2-25	47	2015/03/10
27	CDN	FCC	FCC-801-M3-25	107	2015/03/10
28	EM Injection Clamp	FCC	F-203I-23mm	403	2015/03/10
29	RF Cable Universal Radio	MIYAZAKI	N/A	No.1/No.2	2015/03/10
30	Communication Tester	ROHDE&SCHWARZ	CMU200	0304789	2015/03/10
31	Telecommunication Antenna	European Antennas	PSA 75301R/170	0304213	2015/03/10

NOTE: Equipments listed above have been calibrated and are in the period of validation.

5. 47 CFR PART 15B REQUIREMENTS

5.1 GENERAL INFORMATION

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of X axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data of the worst mode is reported by this report.

EUT Test Procedure:

- 1. Put EUT on the test table.
- 2. Power on the EUT.
- 3. Make sure the EUT operates normally during the test.

Mode 1: Running H Pattern

During the measurement, A Communication link was established by EUT between two ports. The EUT was playing the data exchange function.

The EUT configuration of the emission test was PC+ Mouse + Keyboard + Printer + EUT.

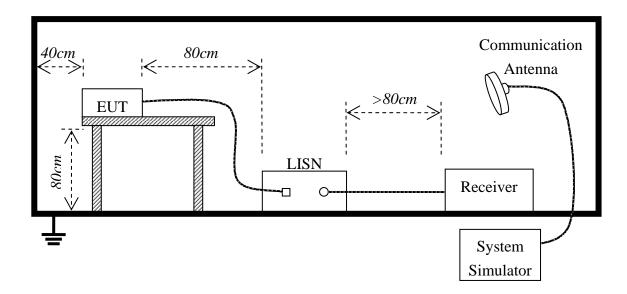
6. LINE CONDUCTED EMISSION TEST

6.1. LIMITS OF LINE CONDUCTED EMISSION TEST

Fraguency	Maximum RF Line Voltage				
Frequency	Q.P.(dBuV)	Average(dBuV)			
150kHz-500kHz	66-56	56-46			
500kHz-5MHz	56	46			
5MHz-30MHz	60	50			

^{**}Note: 1. the lower limit shall apply at the transition frequency.

6.2. BLOCK DIAGRAM OF TEST SETUP



^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz

6.3. PRELIMINARY PROCEDURE OF LINE CONDUCTED EMISSION TEST

- The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per FCC Part 15 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per FCC Part 15.
- 3) All I/O cables were positioned to simulate typical actual usage as per FCC Part 15.
- 4) The EUT through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5) All support equipments received power from a second LISN supplying power of AC 120V/60Hz, if any.
- 6) The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7) Analyzer / Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.
- 8) During the above scans, the emissions were maximized by cable manipulation.
- 9) The following test mode(s) were scanned during the preliminary test:

Preliminary Conducted Emission Test									
Frequency Range In	nvestigated	150KHz TO 30 MHz							
Mode of operation	lode of operation Date		Data#	Worst Mode					
Running H Pattern	2014-05-30	MTE/SAL/F14060620	HL1916SM_1_(L, N)						

Then, the EUT configuration and cable configuration of the above highest emission level were recorded for reference of final testing.

6.4. FINAL PROCEDURE OF LINE CONDUCTED EMISSION TEST

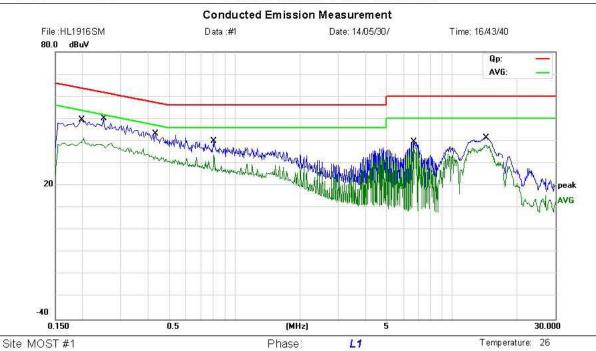
EUT and support equipment was set up on the test bench as per step 9 of the preliminary test. A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less –20dB to the A.V. limit in Peak mode, then the emission signal was re-checked using Q.P and Average detector.

The test modes were carried out for all operation modes, The worst data was shown as the follow.

6.5. TEST RESULT OF LINE CONDUCTED EMISSION TEST



Tel: 0755-86026850 Fax: 0755-26013350



Power: AC 120V/60Hz

Limit: FCC Part 15B Class B

EUT: 19" LCD Monitor M/N: HL1916SM Mode: Running H Pattern

Note: DVI 1280*1024

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV	dBu∀	dB	Detector	Comment
1		0.4373	27.03	10.42	37.45	57.11	-19.66	QР	
2		0.4373	21.67	10.42	32.09	47.11	-15.02	AVG	
3		6.7191	28.47	10.97	39.44	60.00	-20.56	QР	
4		6.7191	26.44	10.97	37.41	50.00	-12.59	AVG	
5		0.2518	31,18	11.65	42.83	61.70	-18.87	QP	
6		0.2518	25.81	11.65	37.46	51.70	-14.24	AVG	
7		0.8008	22.90	10.00	32.90	56.00	-23.10	QP	
8		0.8008	18.61	10.00	28.61	46.00	-17.39	AVG	
9		14.2964	34.86	9.00	43.86	60.00	-16.14	QP	
10	*	14.2964	31.29	9.00	40.29	50.00	-9.71	AVG	
11		0.1978	32.41	11.87	44.28	63.70	-19.42	QP	
12		0.1978	26.88	11.87	38.75	53.70	-14.95	AVG	

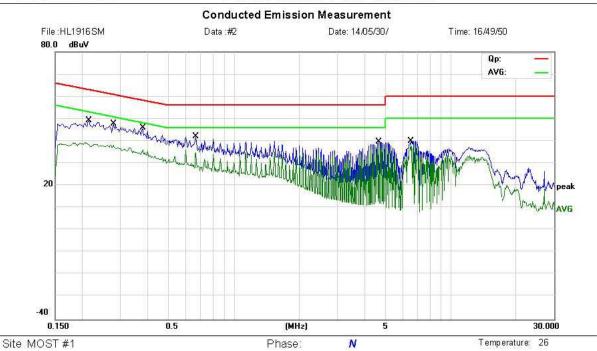
^{*:}Maximum data x:Over limit I:over margin

Engineer Signature: John 28

Humidity: 60 %



Tel: 0755-86026850 Fax: 0755-26013350



Power: AC 120V/60Hz

Limit: FCC Part 15B Class B

EUT: 19" LCD Monitor M/N: HL1916SM

Mode: Running H Pattern Note: DVI 1280*1024

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∀	dBu∀	dB	Detector	Comment
1	0.2170	31.70	11.89	43.59	62.93	-19.34	QP	
2	0.2170	26.25	11.89	38.14	52.93	-14.79	AVG	
3	0.2787	30.84	11.48	42.32	60.85	-18.53	QР	
4	0.2787	25.31	11.48	36.79	50.85	-14.06	AVG	
5	0.3812	29.47	10.79	40.26	58.25	-17.99	QP	
6	0.3812	24.29	10.79	35.08	48.25	-13.17	AVG	
7	0.6660	23.54	10.00	33.54	56.00	-22.46	QP	
8	0.6660	18.32	10.00	28.32	46.00	-17.68	AVG	
9	4.6764	28.94	11.68	40.62	56.00	-15.38	QР	
10 *	4.6764	27.29	11.68	38.97	46.00	-7.03	AVG	
11	6.5193	30.56	11,09	41,65	60.00	-18.35	QP	
12	6.5193	28.90	11.09	39.99	50.00	-10.01	AVG	

^{*:}Maximum data x:Over limit I:over margin

Engineer Signature: John 28

Humidity: 60 %

7. RADIATED EMISSION TEST

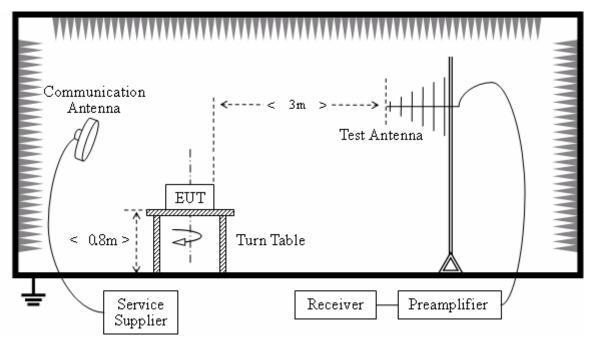
7.1. LIMITS OF RADIATED DISTURBANCES AT 3M DISTANCES FOR CLASS B

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (µV/m)	Measurement Distance (m)
0.009 - 0.490	2400/F(kHz)	300
0.490 - 1.705	24000/F(kHz)	30
1.705 - 30.0	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

As shown in FCC section 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector. When average radiated emission measurements are specified in this part, including emission measurements below 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit for the frequency being investigated unless a different peak emission limit is otherwise specified in the rules.

7.2 TEST DESCRIPTION



- (1) The EUT was palced on a turntable with 0.8 meter above ground.
- (2) The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
- (3) The table was rotated 360 degrees to determine the position of the highest radiation.
- (4) The antenna is a Bi-Log antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- (5) For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1m to 4m) and turntable(from 0 degree to 360 degrees) to find the maximum reading.
- (6) Set the test-receiver system to Peak Detect Function and specified bandwidth with maximum hold mode.
- (7) If the emission level of the EUT in peak mode was 3dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the quasi-peak method and reported.
- (8) Emission level(dBuV/m)=20 log Emission level(uv/m).
- (9) Corrected reading: Antenna Factor + cable loss + read level Preamp Factor = level

7.3 TEST RESULT

	Pr	eliminary Radiated Emiss	ion Test	
Frequ	ency Range In	vestigated	30 MHz TO 1000 M	Hz
Mode of operation	Date	Report No.	Data#	Worst Mode
Running H Pattern	2014-06-04	MTE/SAL/F14060620	HL1916SM_1_(H, V)	\boxtimes

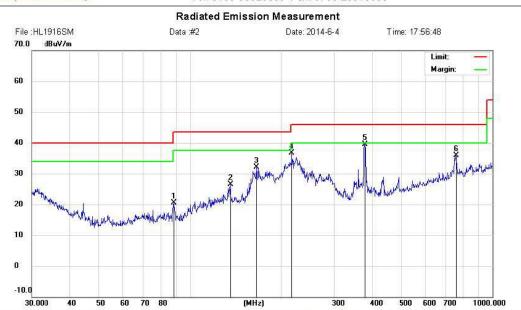
Note:

The test modes were carried out for all operation modes, The worst data was shown as the follow.

Below 1GHz



Address:No.5,Langshan 2nd Rd., North Hi-Tech Industrial park Guangdong ,China
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Site Chamber #1

Limit: FCC Part15 B 3M Radiation

EUT: 19" LCD Monitor M/N: HL1916SM Mode: Running H Pattern Note: DP 1280*1024 Power: AC 120V/60Hz

Polarization: Horizontal

Temperature: 26 Humidity: 61 %

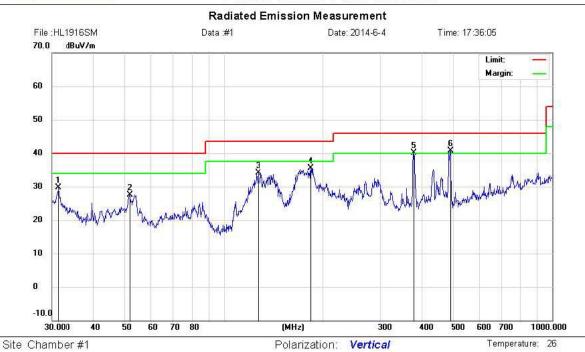
Distance:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		88.3421	9.04	11.40	20.44	43.50	-23.06	QP			
2		136.4598	9.22	17.37	26.59	43.50	-16.91	QP			
3		166.0680	14.92	17.24	32.16	43.50	-11.34	QP			
4		217.5443	20.52	16.20	36.72	46.00	-9.28	QP			
5	*	377.2591	21.38	18.12	39.50	46.00	-6.50	QP			
6		758.0408	10.36	25.64	36.00	46.00	-10.00	QP			

^{*:}Maximum data x:Over limit !:over margin



Tel: 0755-86026850 Fax: 0755-26013350



Limit: FCC Part15 B 3M Radiation

EUT: 19" LCD Monitor

M/N: HL1916SM Mode: Running H Pattern Note: DP 1280*1024 Power: AC 120V/60Hz

Humidity:

61 %

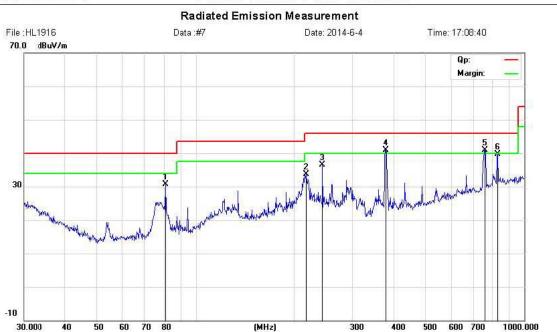
Distance:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		31.3992	7.42	22.20	29.62	40.00	-10.38	QР			
2		51.6616	17.18	10.39	27.57	40.00	-12.43	QP			
3		127.6645	16.42	17.65	34.07	43.50	-9.43	QP			
4		184.4898	18.77	16.65	35.42	43.50	-8.08	QP			
5	H	377.2591	22.05	18.12	40.17	46.00	-5.83	QP			
6	*	487.3151	18.95	21.70	40.65	46.00	-5.35	QP			

^{*:}Maximum data x:Over limit !:over margin



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Site MOST #1 Limit: FCC Part15 B 3M Radiation

LIIIIL PCC FAIL IS DISIVIR AUTALIC

EUT: 19"LCD monitor

M/N: HL1916

Mode: Running H Pattern Note: VGA 1280*1024 Polarization: Horizontal Temperature: 26
Power: AC 120V/60Hz Humidity: 61 %

Distance:

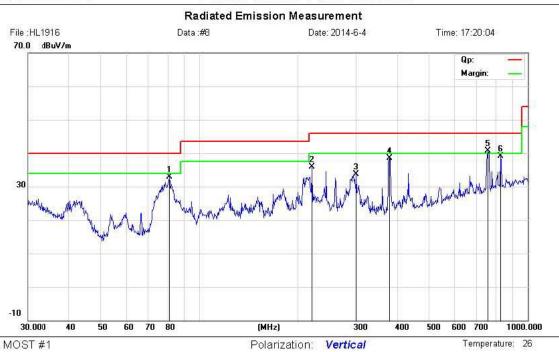
No.	MŁ	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		80.9274	19.38	11.40	30.78	40.00	-9.22	QР		0	
2		217.5443	17.60	16.20	33.80	46.00	-12.20	QP		0	
3		243.3771	19.33	17.27	36,60	46.00	-9.40	QP		0	
4	1	378.5843	22.78	18.12	40.90	46.00	-5.10	QP		0	
5	*	760.7035	15.36	25.62	40.98	46.00	-5.02	QP		0	
6		830.4001	12.67	27.00	39.67	46.00	-6.33	QP		0	

Engineer Signature: Allen 28

^{*:}Maximum data x:Over limit I:over margin



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Site MOST #1 Limit: FCC Part15 B 3M Radiation

EUT: 19"LCD monitor

M/N: HL1916

Mode: Running H Pattern Note: VGA 1280*1024 Power: AC 120V/60Hz

Distance:

Humidity:

61 %

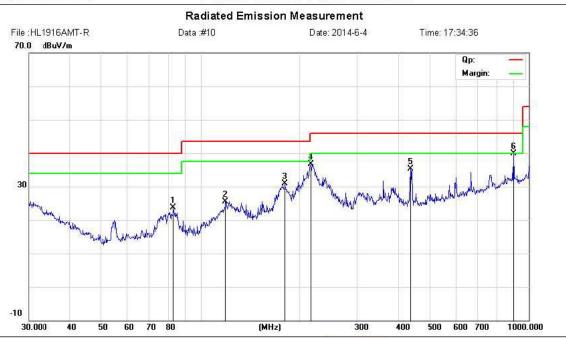
No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		80.9274	21.59	11.40	32.99	40.00	-7.01	QP		0	
2		220.6171	19.67	16.31	35.98	46.00	-10.02	QP		0	
3		300.3672	14.56	19.20	33.76	46.00	-12.24	QP		0	
4		378.5843	20.30	18.12	38.42	46.00	-7.58	QP		0	
5	*	758.0408	15.12	25.64	40.76	46.00	-5.24	QP		0	
6		827.4934	12.20	26.87	39.07	46.00	-6.93	QP		0	

Engineer Signature: Allen 28

^{*:}Maximum data x:Over limit I:over margin



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Site MOST #1

Limit: FCC Part15 B 3M Radiation

EUT: 19"LCD monitor M/N: HL1916AMT-R Mode: Running H Pattern Note: DVI 1280*1024

Temperature: 26 Polarization: Horizontal Power: AC 120V/60Hz Humidity:

Distance:

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		82.6480	12.21	11.40	23.61	40.00	-16.39	QP		0	
2		119.0180	8.17	17.36	25.53	43.50	-17.97	QP		0	
3		181.2834	14.26	16.69	30.95	43.50	-12.55	QP		0	
4		216.7828	20.50	16.18	36.68	46.00	-9.32	QP		0	
5		435.5898	15.04	20.30	35.34	46.00	-10.66	QP		0	
6	*	900.1474	12.51	27.40	39.91	46.00	-6.09	QP		0	

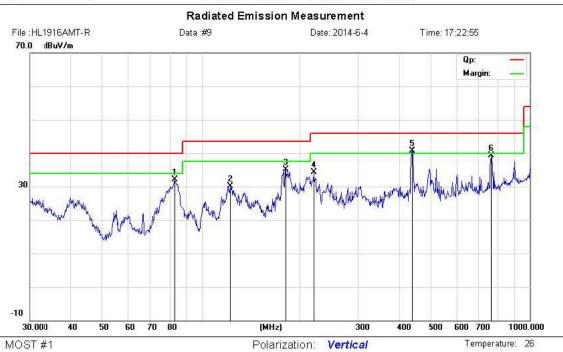
Engineer Signature: Allen 28

61 %

^{*:}Maximum data x:Over limit I:over margin



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Site MOST #1

Limit: FCC Part15 B 3M Radiation EUT: 19"LCD monitor

M/N: HL1916AMT-R Mode: Running H Pattern Note: DVI 1280*1024

Power: AC 120V/60Hz

Distance:

Humidity:

61 %

No.	Mk	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		82.9384	20.63	11.40	32.03	40.00	-7.97	QP		0	
2		121.9755	12.51	17.54	30.05	43.50	-13.45	QP		0	
3		180.6488	18.51	16.69	35.20	43.50	-8.30	QP		0	
4		219.8448	18.01	16.30	34.31	46.00	-11.69	QP		0	
5	*	437.1200	20.50	20.30	40.80	46.00	-5.20	QP		0	
6		763.3757	13.60	25.70	39.30	46.00	-6.70	QP		0	

Engineer Signature: Allen 28

^{*:}Maximum data x:Over limit I:over margin

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

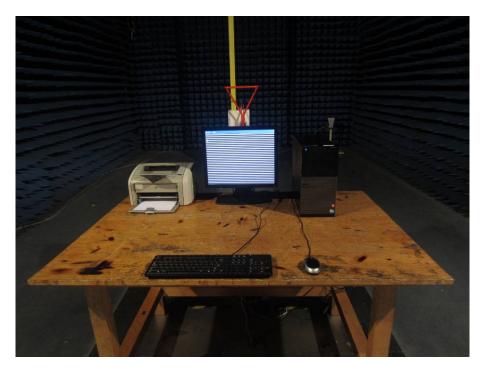
CE TEST SETUP OF HL1916SM-1



CE TEST SETUP OF HL1916SM-2



RE TEST SETUP OF HL1916SM-3



RE TEST SETUP OF HL1916SM-4







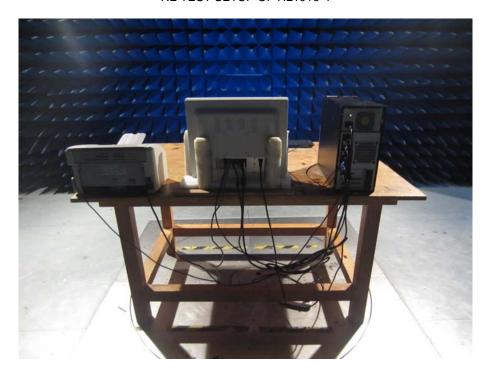
CE TEST SETUP OF F HL1916-2



RE TEST SETUP OF HL1916-3



RE TEST SETUP OF HL1916-4



-----END OF REPORT-----