



EMC Test Report
Project No.: 1808C198Equipment: LCD MonitorTest Model: **273QCX************************************
Date of Receipt : Aug. 28, 2018 Date of Test : Aug. 29, 2018 ~ Oct. 24, 2018 Issued Date : Nov. 16, 2018 Tested by : BTL Inc.
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Declaration

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BTL's laboratory quality assurance procedures are in compliance with the **ISO Guide 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.





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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Nov. 16, 2018



1. CERTIFICATION

Series Model : Applicant : Date of Test : Test Sample :	N/A **273QCX************************************

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-EMC-1-1808C198) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission						
Standard(s)	Test I	tem	Limit	Judgment	Remark	
	Radiated e up to 1		Class B	PASS		
	Radiated emissions above 1 GHz		Class B	PASS	NOTE (2)	
	Radiated emissions from FM receivers			N/A	NOTE (1) NOTE (6)	
EN 55032: 2012+AC:2013 EN 55032:2015	Conducted emissions AC mains power port		Class B	PASS	NOTE (7)	
EN 55032:2015+AC:2016	Asymmetric	AAN		N/A		
	mode conducted	Current Probe		N/A	NOTE (1) NOTE (8)	
	emissions	CVP		N/A		
	Conducted voltage er			N/A	NOTE (1) NOTE (9)	

Standard	Test Item	Limit	Judgment	Remark
EN 61000-3-2:2014	Harmonic current emissions Class D F		PASS	NOTE (3)
EN 61000-3-3:2013	Voltage changes, voltage fluctuations and flicker		PASS	

Immunity EN 55024: 2010/ EN 55024: 2010+A1:2015					
Section(s)	Test Item	Performance Criterion	Judgment	Remark	
EN 61000-4-2:2009	Electrostatic discharge immunity	В	PASS		
EN 61000-4-3: 2006+A1:2008+A2:2010	Radiated, radio-frequency, electromagnetic field immunity	А	PASS		
EN 61000-4-4:2004	Electrical fast transient/burst immunity	В	PASS		
EN 61000-4-5:2006	Surge immunity	B/C	PASS	NOTE (4)	
EN 61000-4-6: 2009	N 61000-4-6: 2009 Immunity to conducted disturbances, induced by radio-frequency fields		PASS		
EN 61000-4-8:2010	Power frequency magnetic field immunity	А	PASS		
EN 61000-4-11:2004	Voltage dips, short interruptions and voltage variations immunity		PASS	NOTE (5)	





NOTE:

- (1) "N/A" denotes test is not applicable to this device.
- (2) The EUT's max operating frequency is 597 MHz which does exceed 108 MHz, so the test will be performed.
- (3) If the power consumption is less than 75W, there is no limit applied.
- (4) Port Type: unshielded symmetrical : Performance Criterion C for signal ports and telecommunication ports. Port Type: coaxial or shielded: Performance Criterion B for signal ports and telecommunication ports. Performance Criterion B for input d.c. power port and a.c. power ports.
- (5) Voltage Dips: >95% reduction Performance Criterion B
 Voltage Dips: 30% reduction Performance Criterion C
 Voltage Interruptions: >95% reduction Performance Criterion C
- (6) If the EUT has FM function the test will be performed.
- (7) If the EUT has AC power mains port the test will be performed.

(8)

Cable Type	Number of pairs	Measurement type	Procedures
Balanced Unscreened	1 (2 wire) ;2 (4 wire); 3 (6 wire) ;4 (8 wire)	Voltage	AAN
Balanced Unscreened	See a)	Voltage and Current	CP+CVP
Screened or Coaxial	n/a	Voltage	AAN
Screened or Coaxial	n/a	Voltage or Current	CP or CVP
Unbalanced cables	n/a	Voltage and Current	CP+CVP

Ports connected to cables with more than 4 balanced pairs or where the port is unable to function correctly when connected through an AAN.

- (9) If the EUT has tuner port the test will be performed.
- (10) The requirement followed by the client's specification.



2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

2.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2, The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

A. Radiated emissions up to 1 GHz measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
DG-CB08(10m) C	10m) CISPR	30MHz ~ 200MHz	V	4.66
		30MHz ~ 200MHz	Н	4.64
		200MHz ~ 1,000MHz	V	4.88
		200MHz ~ 1,000MHz	Н	4.86

B. Radiated emissions above 1 GHz measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-CB08(3m)	CIEDD	1 ~ 6 GHz	4.26
	08(3m) CISPR	6 ~18 GHz	5.30

C. Conducted emissions AC mains power port measurement:

Test	Site Method	Measurement Frequency Range	U, (dB)
DG-C	CISPR	150 kHz ~ 30MHz	3.16

D. Harmonic current emissions / Voltage changes, voltage fluctuations and flicker measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C01	EN 61000-3-2	Voltage	0.774
DG-COT	EN 61000-3-3	Current	0.782





E. Immunity Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
		Rise time tr	14.60 %
DG-SR02	EN 61000-4-2	Peak current lp	1.72 %
DG-SRU2		Current at 30 ns	2.0 %
		Current at 60 ns	1.84 %
		80 MHz~1 GHz	2.175 dB
		Electrical measurements	2.267 dB
		Measuring the demodulation on analogue	2.267 dB
DG-CB05	EN 61000-4-3	wired network lines	2.207 UD
DG-CD03	LN 01000-4-3	Audio breakthrough measurement, test	2.349 dB
		set-up for RS 2G/3G	2.349 UD
		Audio breakthrough measurement, test	2.413 dB
		set-up for RS 4G	
		Voltage rise time (tr)	10.40 %
DG-SR05	EN 61000-4-4	Voltage peak value(V _P)	8.20 %
		Voltage pulse width(tw)	6.0 %
		Voltage front time (T _{fv})	5.80 %
DG-SR05	EN 61000-4-5	Voltage peak value(V _P)	3.90 %
		Voltage duration(t _d)	0.60 %
		CDN	3.25 dB
		EM clamp	4.410 dB
DG-CB06	EN 61000-4-6	N 61000-4-6 Electrical measurements	
		measuring the demodulation on analogue	3.258 dB
		wired network lines 3.2	
DG-SR05	EN 61000-4-8	Magnetic Field Level	3.787 %
DG-SR05	EN 61000-4-11	voltage fall time (T _f)	2.0 %

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	LCD Monitor		
Brand Name	N/A		
Test Model	**273QCX******* (*=A-Z,a-z,0-9,/,or blank)		
Series Model	N/A		
Model Difference(s)	The market distribution is different only.		
Power Source	AC Mains.		
Power Rating	100-240V~ 50/60Hz		
Connecting I/O Port	1* AC port 6* USB port 2* Display port 2* HDMI port 1* D-SUB port 2* Earphone port 2* Audio port		

Cable Type	Shielded Type	Ferrit Core	Length(m)	Note
Display	Shielded	NO 1.8m/1.5m/1.2m		
D-SUB	Shielded	YES	1.8m/1.5m/1.2m	Bonded two Ferrite Cores
USB	Shielded	NO	1.8m/1.5m/1.2m	
HDMI	Shielded	NO	1.8m/1.5m/1.2m	
Audio	Non-shielded	NO	1.8m/1.5m/1.2m	
AC Power Cord	Non-shielded	NO	1.8m/1.5m/1.2m	1.8m is worst case Detachable (3 Pin)

Note:

- 1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- 2. Power cable 1.8m, 1.5m and 1.2m length, worst case is Power cable 1.8m with Display+HDMI+ D-SUB+USB+Audio 1.8m length testing and recording in test report.



3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description		
Mode 1	D-SUB 1920*1080/60Hz		
Mode 2	HDMI 1 2560*1440/75Hz		
Mode 3	HDMI 2 2560*1440/144Hz		
Mode 4	HDMI 1 1080P		
Mode 5	HDMI 2 1080P		
Mode 6	Display 1 2560*1440/144Hz		
Mode 7	Display 2 2560*1440/144Hz		
Mode 8	HDMI 1 1280*1024/75Hz		
Mode 9	HDMI 1 640*480/75Hz		

For Radiated Test			
Final Test Mode	Description		
Mode 1	D-SUB 1920*1080/60Hz		
Mode 2	HDMI 1 2560*1440/75Hz		
Mode 4	HDMI 1 1080P		

For Conducted Test			
Final Test Mode	Description		
Mode 1	D-SUB 1920*1080/60Hz		
Mode 2	HDMI 1 2560*1440/75Hz		
Mode 4	HDMI 1 1080P		

For Harmonics / Flickers Test		
Final Test Mode	Description	
Mode 2	HDMI 1 2560*1440/75Hz	

For EMS Test		
Final Test Mode Description		
Mode 2	HDMI 1 2560*1440/75Hz	

Evaluation description:

- 1. The maximum resolution is evaluated Mode 1-7. The worst case is Mode 2 and evaluated the middle and low resolution Mode 8 and mode 9.
- 2. According to the client's requirement, choose Mode 1, Mode 2, Mode 4 and recorded in test report.

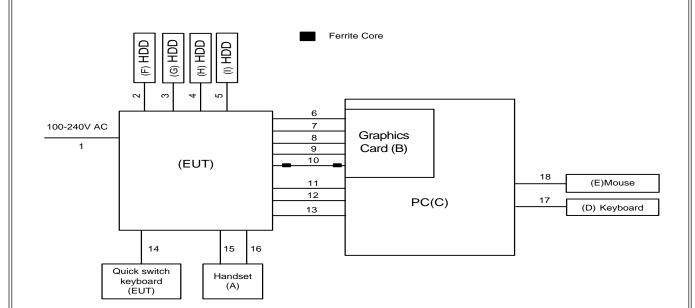


3.3 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The standard test signals and output signal as following:

- 1. EUT connected to PC via Display & HDMI & D-SUB & Audio & USB cable.
- 2. EUT connected to Earphone via Earphone cable.
- 3. EUT connected to Handset via Audio & Earphone cable.
- 4. EUT connected to Quick switch keyboard via Earphone cable.
- 5. EUT connected to HDD via USB cable.
- 6. PC connected to Mouse and Keyboard via USB cable.

3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





3.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
А	Earphone	APPLE	N/A	N/A	N/A
В	Headset	PHILIPS	SHMI500	N/A	VER
С	Graphics Card	LEADTEK	LR2A5F	DOC	ALF7100123952
D	PC	DELL	320	DOC	J4JQ52X
E	Keyboard	DELL	SK-8815(L)	DOC	00975811
F	Mouse	DELL	MO28UOL	DOC	23-122591
G	HDD	WD	WDBLUZ5000ASL	DOC	WX51AB3N8785
Н	HDD	WD	WDBLUZ5000ASL	DOC	WXX1E7405LYS
I	HDD	WD	WDBBLW5000AAL	DOC	WX81A64A5EJ5
J	HDD	WD	WDBBLW5000AAL	DOC	WX31A93J5223

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.8m/1.5m/1.2m	AC Cable
2	YES	NO	1m	USB Cable
3	YES	NO	1m	USB Cable
4	YES	NO	1m	USB Cable
5	YES	NO	1m	USB Cable
6	YES	YES	1.8m/1.5m/1.2m	HDMI Cable
7	YES	NO	1.8m/1.5m/1.2m	HDMI Cable
8	YES	NO	1.8m/1.5m/1.2m	Display Cable
9	YES	YES	1.8m/1.5m/1.2m	Display Cable
10	NO	NO	1.8m/1.5m/1.2m	D-SUB Cable
11	NO	NO	1.8m/1.5m/1.2m	Audio Cable
12	YES	NO	1.8m/1.5m/1.2m	USB Cable
13	YES	NO	1.0m	USB Cable
14	NO	NO	1.2m	Earphone Cable
15	NO	NO	1.8m	Audio Cable
16	NO	NO	1.8m	Earphone Cable
17	YES	NO	1.8m	USB Cable
18	YES	NO	1.8m	USB Cable



4. EMC EMISSION TEST- EN55032:2012+AC:2013 & 2015

4.1 RADIATED EMISSION

4.1.1 LIMITS

Class A equipment up to 1000MHz

	Table	Frequency	Mea	surement	Class A limit dB(uV/m)
	clause	MHz	Distance m	Detector type/bandwidth	OATS/SAC
	A2.1	<u> </u>	10	Quasi peak /	<u>40</u> 47
	A2.2	30-230 230-1000	3	120 kHz	50 57
С	lass A equ	uipment above 1000M	lHz		
	Table	Frequency	Measurement		Class A limit dB(uV/m)
	clause	MHz	Distance m	Detector type/bandwidth	FSOATS
	A3.1	1000-3000 3000-6000	3	Average / 1 MHz	56 60
	A3.2	1000-3000 3000-6000	3	Peak / 1 MHz	76 80
С	lass B eq	uipment up to 1000M	Ηz		
	Table	Frequency	Mea	surement	Class B limit dB(uV/m)
	clause	MHz	Distance m	Detector type/bandwidth	OATS/SAC
		30-230	10		30
	A4.1	230-1000	10	Quasi peak /	37
	A4.2	<u> </u>	3	120 kHz	40 47
С	lass B eq	uipment above 1000M	1Hz		
	Table	Frequency	Measurement		Class B limit dB(uV/m)

clause	MHz	Distance m	Detector type/bandwidth	FSOATS
	1000-3000		Average /	50
A5.1	3000-6000	2	1 MHz	54
	1000-3000	3	Peak /	70
A5.2	3000-6000		1 MHz	74



Notes:

- (1) The limit for radiated test was performed according to as following: EN 55032
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Required highest frequency for radiated measurement

Highest internal frequency (F _x) MHz	Highest measured frequency MHz
F _x ≦108	1000
108 <f<sub>x ≦500</f<sub>	2000
500< F _x ≦1000	5000
F _x >1000	5 th up to a maximum 6 GHz,

Note for FM and TV broadcast receiver, F_x is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.

4.1.2 MEASUREMENT INSTRUMENTS LIST

Up to 1GHz:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Keysight	N9038A	MY54450004	Aug. 11, 2019
2	MXE EMI Receiver	Agilent	N9038A	MY53220133	Mar. 11, 2019
3	Pre-Amplifier	Mini-Circuits	EMC 9135	980284	Mar. 11, 2019
4	Pre-Amplifier	Mini-Circuits	EMC 9135	980283	Mar. 11, 2019
5	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	586	Nov. 09, 2018
6	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	587	Jan. 04, 2019
7	Cable	emci	LMR-400(5m+ 11m+15m)	N/A	Jan. 11, 2019
8	Cable	emci	LMR-400(5m+ 8m+15m)	N/A	Jan. 11, 2019
9	Measurement Software	Farad	EZ-EMC Ver.BTL-2ANT- 1	N/A	N/A
10	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
11	Attenuator	SHX	TS2-6dB-6G-A	16101101	Nov. 09, 2018
12	Attenuator	SHX	TS2-6dB-6G-A	16101102	Jan. 04, 2019

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



Above 1GHz:

lto mo	Kind of Equipment		Tura Na	Carial Na	Colibrated until
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Horn Antenna	EMCO	3115	9605-4803	Mar. 11, 2019
2	Amplifier	Agilent	8449B	3008A02584	Aug. 11, 2019
3	MXE EMI Receiver	Agilent	N9038A	MY53220133	Mar. 11, 2019
4	Measurement Software	Farad	EZ-EMC Ver.BTL-2AN T-1	N/A	N/A
5	Cable	Micable Inc.	B10-01-01-15 M(10MHz~26 .5GHz)	18047122	May 25, 2019
6	Multi-Device Controller	ETS-Linddren		N/A	N/A
7	Controller	MF	MF-7802	MF780208159	N/A
8	Cable	MIcable Inc.	B10-01-01-5 M(10MHz~26 .5GHz)	18047123	May 25, 2019

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.

4.1.3 TEST PROCEDURE

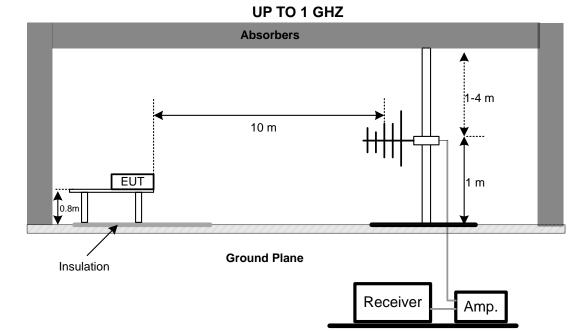
- a. The measuring distance of 10 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz).
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- g. For the actual test configuration, please refer to the related Item Block Diagram of system tested (please refer to 3.3).



4.1.4 DEVIATION FROM TEST STANDARD

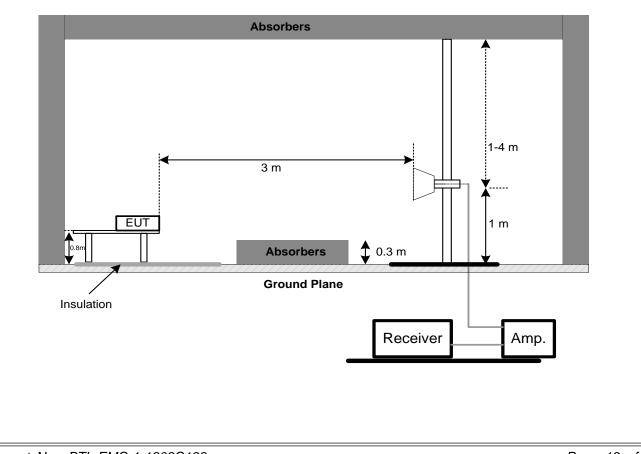
No deviation

4.1.5 TEST SETUP

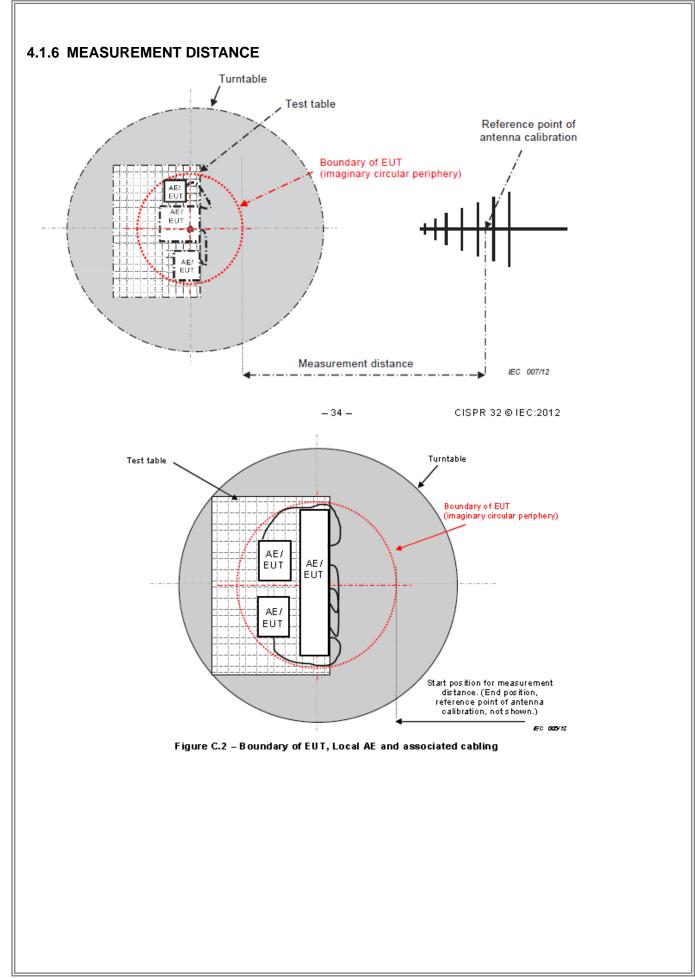


Note: The antenna can be moved between 1 to 4 meters above the ground.

ABOVE 1 GHZ





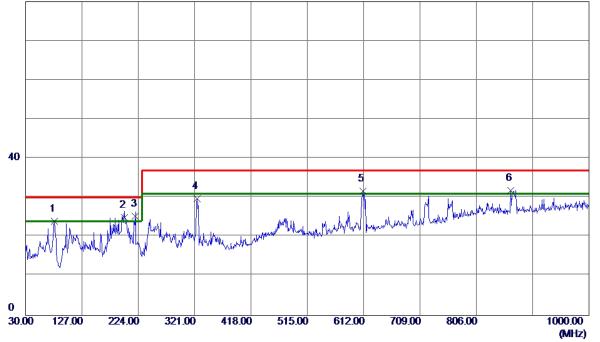




4.1.7 TEST RESULTS (UP TO 1 GHZ)

EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 230V/50Hz	Polarization	Vertical			
Test Mode	D-SUB 1920*1080/60Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					

80 dBuV/m

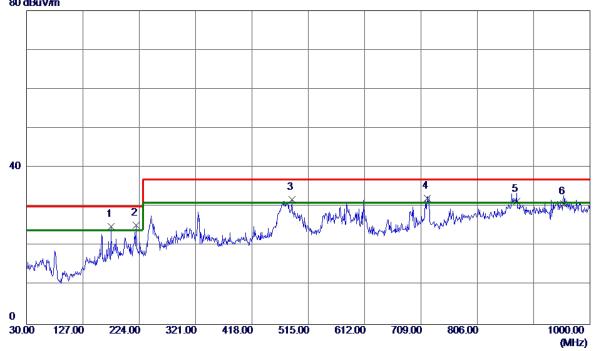


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	79.4700	44.85	-20.89	23.96	30.00	-6.04	QP
2	200. 2350	43.91	-18.89	25. 0 2	30.00	-4.98	QP
3 *	219.1500	44.16	-18.81	25.35	30.00	-4.65	QP
4	324.8800	44.37	-14.54	29.83	37.00	-7.17	QP
5	610. 5450	40.02	- <mark>8.</mark> 35	31.67	37.00	-5. 33	QP
6	865.6550	36. 58	-4.68	31.90	37.00	-5.10	QP





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 230V/50Hz	Polarization	Horizontal
Test Mode	D-SUB 1920*1080/60Hz		
Note	Cable:1.8m		
Test Engineer	Sam Wang		
80 dBuV/m			

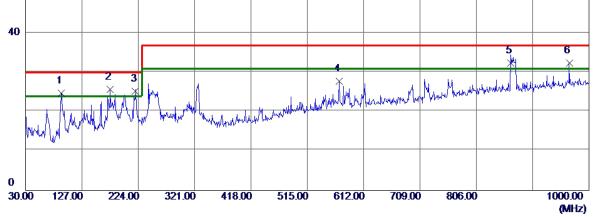


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	175. 5000	42.35	-17.33	25. 0 2	30.00	-4.98	QP
2 *	218.6650	44.59	-19.26	25.33	30.00	-4.67	QP
3	486.8700	42.64	-10.80	31.84	37.00	-5.16	QP
4	719.6700	39.50	-7.35	32.15	37.00	-4.85	QP
5	873.9000	36.38	-5. 0 1	31.37	37.00	-5.63	QP
6	954.4100	34.72	-3.93	30.79	37.00	- 6. 21	QP





EUT	LCD Monitor	Model Name	**273QCX******					
Temperature 25°C Relative Humidity			60%					
Test Voltage	AC 230V/50Hz	Polarization	Vertical					
Test Mode	HDMI 1 2560*1440/75Hz		•					
Note	Cable:1.8m							
Test Engineer	Sam Wang	Sam Wang						
80 dBuV/m								
40								

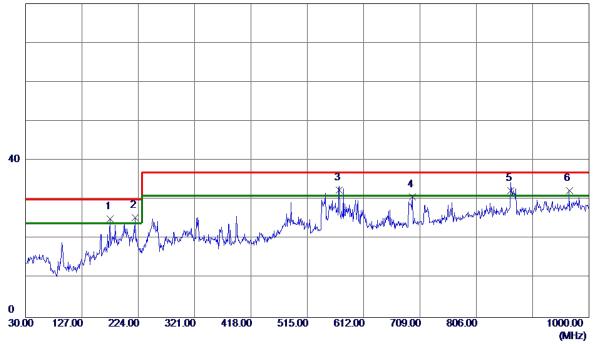


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	91.1100	46.82	-21. 97	24.85	30.00	-5.15	QP
2 *	175. 5000	42.99	-17.18	25.81	30.00	-4.19	QP
3	219.1500	44.05	-18. 81	25.24	30.00	-4.76	QP
4	570.2900	36.87	- 9. 0 8	27.79	37.00	-9.21	QP
5	865.6550	37.12	- 4. 68	32.44	37.00	-4.56	QP
6	966. 0500	35.81	-3.26	32.55	37.00	-4.45	QP





	Model Name	**273QCX******					
25°C	Relative Humidity	60%					
AC 230V/50Hz	Horizontal						
HDMI 1 2560*1440/75Hz							
Cable:1.8m							
Sam Wang							
80 dBuV/m							
	AC 230V/50Hz HDMI 1 2560*1440/75Hz Cable:1.8m	AC 230V/50Hz Polarization HDMI 1 2560*1440/75Hz Cable:1.8m					



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	175. 5000	42.45	-17.33	25.12	30.00	-4.88	QP
2	218. 1800	44.73	-19.25	25.48	30.00	-4.52	QP
3 *	570.2900	41.82	-9.32	32. 50	37.00	-4.50	QP
4	696. 3900	38.48	-7.77	30.71	37.00	-6.29	QP
5	865.1700	37.48	-5.12	32.36	37.00	-4.64	QP
6	966. 0500	36.06	-3.77	32.29	37.00	-4.71	QP





Note Cable:1.8m	UT		LCD Mor	nitor		Mode	I Name	*	*273QCX	*****
Test Mode HDMI 1 1080P Note Cable:1.8m Test Engineer Sam Wang 80 dBuV/m Image: Sam Wang Image: Sam Wang Image: Sam Wang Image: Sam Wang <th< td=""><td>emperature</td><td>e</td><td>25°C</td><td></td><td></td><td>Relat</td><td>ive Humi</td><td>dity 6</td><td>60%</td><td></td></th<>	emperature	e	25°C			Relat	ive Humi	dity 6	60%	
Note Cable:1.8m Test Engineer Sam Wang 80 dBuV/m Image: Cable: Cab	est Voltage	;	AC 230V	/50Hz		Polar	ization	\	/ertical	
Sam Wang 80 dBuV/m Image: Solution of the second state of the second st	est Mode		HDMI 1 1	080P		·				
80 dBuV/m	lote		Cable:1.8m							
40	est Engine	er	Sam War	ng						
40	80 dBuV/m									
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No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1 *	175. <mark>5000</mark>	42.65	-17.18	25.47	30.00	-4.53	QP
2	219. 1500	43.33	-18.81	24.52	30.00	-5.48	QP
3	324.3950	43.97	-14.55	29.42	37.00	-7.58	QP
4	612.0000	39.56	-8.33	31.23	37.00	-5.77	QP
5	742.4650	37.00	-6.51	30.49	37.00	-6.51	QP
6	865.6550	37.10	-4.68	32.42	37.00	-4.58	QP





EUT	LCD Monitor		Mode	l Name		**273QCX	******	
Temperature	25°C		Relat	ive Humi	dity	60%		
Test Voltage	AC 230V/50Hz	AC 230V/50Hz			Polarization Horizontal			
Test Mode	HDMI 1 1080P							
Note	Cable:1.8m							
Test Engineer	Sam Wang							
80 dBuV/m								
40								
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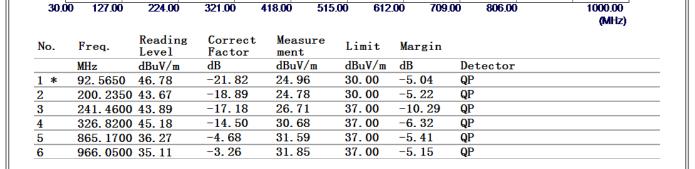
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	175. 5000	42.51	-17.33	25.18	30.00	-4.82	QP
2	216. 2400	44.32	-19.22	25.10	30.00	-4.90	QP
3	486.8700	41.47	-10.80	30.67	37.00	-6. 33	QP
4	569. 3200	41.21	-9.34	31.87	37.00	-5.13	QP
5 *	717.7300	39.67	-7.39	32.28	37.00	-4.72	QP
6	907.8500	36.54	-4.58	31.96	37.00	-5.04	QP



0



EUT	LCD Monitor	Model Name	**273QCX*******			
Temperature	25°C	Relative Humidity	lumidity 60%			
Test Voltage	AC 110V/60Hz	Polarization	Vertical			
Test Mode	HDMI 1 2560*1440/75	łz				
Note	Cable:1.8m					
Test Engineer	Sam Wang					
80 dBuV/m						
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EUT	LCD Monitor	Model Name	**273QCX******				
Temperature	25°C	Relative Humidity	60%				
Test Voltage	AC 110V/60Hz	Polarization	Horizontal				
Test Mode	HDMI 1 2560*1440/75Hz						
Note	Cable:1.8m						
Test Engineer	Sam Wang						
80 dBuV/m							

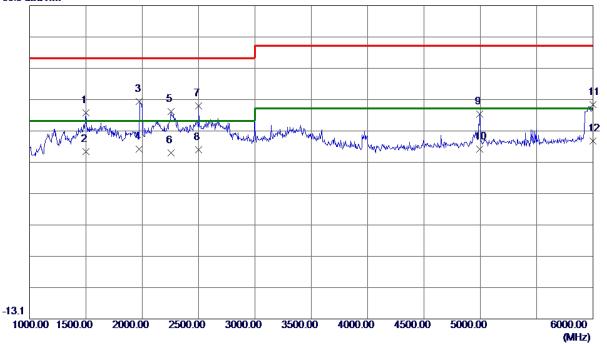


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	175. 5000	42.12	-17.33	24.79	30.00	-5.21	QP
2	219. 1500	44.08	-19.27	24.81	30.00	-5.19	QP
3	570.2900	41.42	-9.32	32.10	37.00	-4.90	QP
4 *	597.4500	41.06	-8.88	32.18	37.00	-4.82	QP
5	864.2000	36.71	-5.13	31.58	37.00	-5.42	QP
6	975.7500	35.81	-3.64	32.17	37.00	-4.83	QP



4.1.8 TEST RESULTS (ABOVE 1 GHZ)

EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 230V/50Hz	Polarization	Vertical			
Test Mode	D-SUB 1920*1080/60Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					

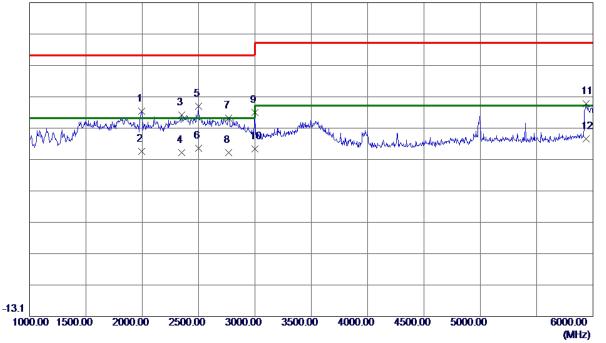


Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1497.5000	56.20	-3.58	52.62	70.00	-17.38	Peak
1497.5000	43.96	-3.58	40.38	50.00	-9.62	AVG
1975. 0000	58.19	-1.94	56. 25	70.00	-13.75	Peak
1975. 0000	43.07	-1.94	41.13	50.00	-8.87	AVG
2257.5000	53.83	-0.80	53.03	70.00	-16.97	Peak
2257.5000	40.63	-0.80	39.83	50.00	-10.17	AVG
2500.0000	54.80	0.19	54.99	70.00	-15.01	Peak
2500.0000	40.68	0.19	40.87	50.00	-9.13	AVG
4995.0000	44.57	7.65	52.22	74.00	-21.78	Peak
4995.0000	33.46	7.65	41.11	54. 00	-12.89	AVG
5997.5000	46.21	9.00	55.21	74.00	-18.79	Peak
5997.5000	34.76	9.00	43.76	54. 00	-10.24	AVG
	MHz 1497. 5000 1497. 5000 1975. 0000 2257. 5000 2257. 5000 2500. 0000 2500. 0000 4995. 0000 5997. 5000	Freq. Level	Freq. Level Factor MHz dBuV/m dB 1497.5000 56.20 -3.58 1497.5000 43.96 -3.58 1975.0000 58.19 -1.94 1975.0000 43.07 -1.94 2257.5000 53.83 -0.80 2257.5000 40.63 -0.80 2500.0000 54.80 0.19 2500.0000 44.57 7.65 4995.0000 33.46 7.65 5997.5000 46.21 9.00	Freq. Level Factor ment MHz dBuV/m dB dBuV/m 1497.5000 56.20 -3.58 52.62 1497.5000 43.96 -3.58 40.38 1975.0000 58.19 -1.94 56.25 1975.0000 43.07 -1.94 41.13 2257.5000 53.83 -0.80 53.03 2257.5000 40.63 -0.80 39.83 2500.0000 54.80 0.19 54.99 2500.0000 44.57 7.65 52.22 4995.0000 33.46 7.65 41.11 5997.5000 46.21 9.00 55.21	Freq. Level Factor ment Limit MHz dBuV/m dB dBuV/m dBuV/m 1497.5000 56.20 -3.58 52.62 70.00 1497.5000 58.19 -1.94 56.25 70.00 1975.0000 43.96 -3.58 40.38 50.00 1975.0000 58.19 -1.94 56.25 70.00 1975.0000 43.07 -1.94 41.13 50.00 2257.5000 53.83 -0.80 53.03 70.00 2257.5000 40.63 -0.80 39.83 50.00 2500.0000 54.80 0.19 54.99 70.00 2500.0000 40.68 0.19 40.87 50.00 4995.0000 44.57 7.65 52.22 74.00 4995.0000 33.46 7.65 41.11 54.00 5997.5000 46.21 9.00 55.21 74.00	Freq.LevelFactormentLimitMarginMHzdBuV/mdBdBuV/mdBuV/mdB1497.500056.20-3.5852.6270.00-17.381497.500043.96-3.5840.3850.00-9.621975.000058.19-1.9456.2570.00-13.751975.000043.07-1.9441.1350.00-8.872257.500053.83-0.8053.0370.00-16.972257.500040.63-0.8039.8350.00-10.172500.000054.800.1954.9970.00-15.012500.000044.577.6552.2274.00-21.784995.000033.467.6541.1154.00-12.895997.500046.219.0055.2174.00-18.79





EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 230V/50Hz	Polarization	Horizontal			
Test Mode	D-SUB 1920*1080/60Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					

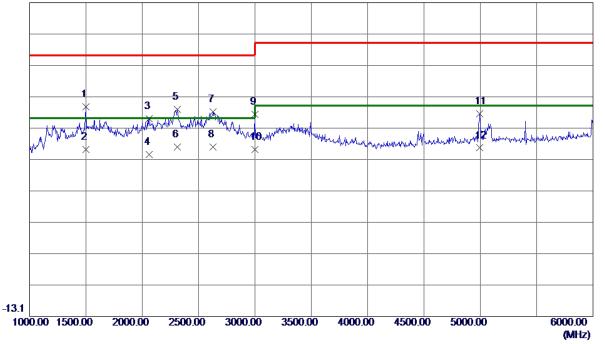


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1995. 0000	54.21	-1.87	52.34	70.00	-17.66	Peak
2	1995. 0000	41.31	-1.87	39.44	5 0. 00	-10.56	AVG
3	2352. 5000	51.45	-0.41	51. 0 4	70.00	-18.96	Peak
4	2352. 5000	39. 51	-0.41	39.10	5 0. 00	-10.90	AVG
5	2497.5000	53.79	0.18	53. 97	70.00	-16.03	Peak
6 *	2497.5000	40.35	0.18	40.53	5 0. 00	-9.47	AVG
7	2765.0000	49.26	0.93	5 0. 19	70.00	-19.81	Peak
8	2765.0000	38.22	0.93	39.15	5 0. 00	-10.85	AVG
9	3000. 0000	50.3 2	1.59	51. 91	70.00	-18.09	Peak
10	3000. 0000	38.70	1.59	40.29	5 0. 00	-9.71	AVG
11	5940.0000	45.90	8.90	54.80	74.00	-19.20	Peak
12	5940.0000	34.67	8.90	43. 57	54. 00	-10.43	AVG





EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 230V/50Hz	Polarization	Vertical			
Test Mode	HDMI 1 2560*1440/75Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					

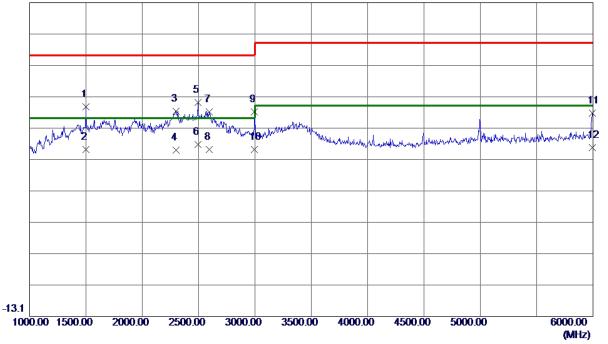


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1497.5000	57.25	-3.58	53.67	70.00	-16.33	Peak
2	1497.5000	43.66	-3.58	40.08	50.00	-9.92	AVG
3	2062. 5000	51.44	-1.60	49.84	70.00	-20.16	Peak
4	2062. 5000	40.10	-1.60	38.50	50.00	-11. 50	AVG
5	2310.0000	53.41	-0.59	52.82	70.00	-17.18	Peak
6 *	2310.0000	41.53	- 0. 59	40.94	50.00	-9.06	AVG
7	2627.5000	51.52	0.55	52.07	70.00	-17.93	Peak
8	2627.5000	40.36	0.55	40.91	5 0. 00	-9.09	AVG
9	2997.5000	49.80	1.58	51.38	70.00	-18.62	Peak
10	2997.5000	38.56	1.58	40.14	50.00	-9.86	AVG
11	4995.0000	43.80	7.65	51.45	74.00	-22.55	Peak
12	4995.0000	32.95	7.65	40.60	54.00	-13.40	AVG





EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 230V/50Hz	Polarization	Vertical			
Test Mode	HDMI 1 2560*1440/75Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					

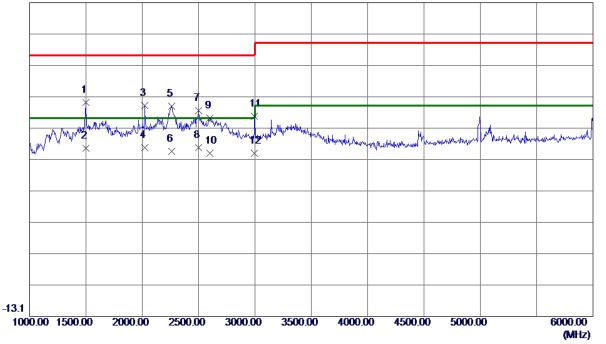


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1497.5000	57.31	-3.58	53.73	70.00	-16.27	Peak
2	1497.5000	43.72	-3.58	40.14	5 0. 00	-9.86	AVG
3	2300.0000	53.01	-0.63	52.38	70.00	-17.62	Peak
4	2300.0000	40.50	-0.63	39.87	5 0. 00	-10.13	AVG
5	2495.0000	54.98	0.17	55.15	70.00	-14.85	Peak
6 *	2495.0000	41.52	0.17	41.69	5 0. 00	-8.31	AVG
7	2592. 5000	51.66	0.45	52.11	70.00	-17.89	Peak
8	2592. 5000	39.73	0.45	40.18	5 0. 00	-9.82	AVG
9	2995.0000	50. 52	1.58	52.10	70.00	-17.90	Peak
10	2995.0000	38.47	1.58	40.05	5 0. 00	-9.95	AVG
11	5995. 0000	42.69	8.99	51.68	74.00	-22.32	Peak
12	5995.0000	31.62	8.99	40.61	54.00	-13.39	AVG





EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 230V/50Hz	Polarization	Vertical			
Test Mode	HDMI 1 1080P					
Note	Cable:1.8m					
Test Engineer	Sam Wang					

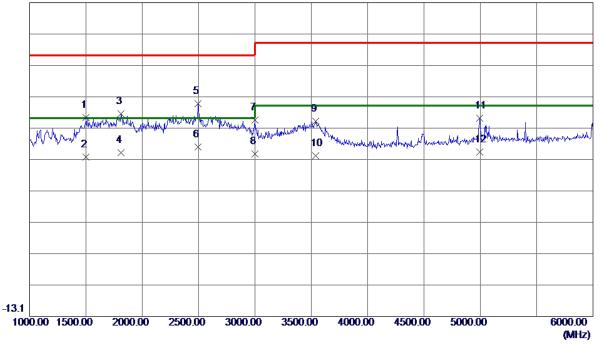


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1497. 5000	58.70	-3. 58	55.12	70.00	-14.88	Peak
2	1497. 5000	44.07	-3.58	40.49	50.00	-9.51	AVG
3	2022. 5000	55.79	-1.76	54.03	70.00	-15.97	Peak
4 *	2022. 5000	42.51	-1.76	40.75	50.00	-9.25	AVG
5	2260.0000	54.65	-0.79	53.86	70.00	-16.14	Peak
6	2260.0000	40.37	-0.79	39.58	50.00	-10.42	AVG
7	2500.0000	52.25	0.19	52.44	70.00	-17.56	Peak
8	2500.0000	40.49	0.19	40.68	50.00	-9.32	AVG
9	2602. 5000	49.71	0.48	50.19	70.00	-19.81	Peak
10	2602. 5000	38.50	0.48	38.98	50.00	-11.02	AVG
11	2995.0000	49.18	1.58	50.76	70.00	-19.24	Peak
12	2995.0000	37.41	1.58	38.99	50.00	-11.01	AVG





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	60%
Test Voltage	AC 230V/50Hz	Polarization	Horizontal
Test Mode	HDMI 1 1080P		
Note	Cable:1.8m		
Test Engineer	Sam Wang		

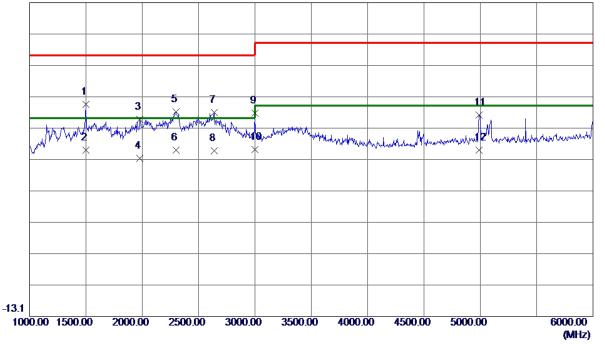


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1500.0000	53.83	-3.56	50.27	70.00	-19.73	Peak
2	1500.0000	41.24	-3.56	37.68	50.00	-12.32	AVG
3	1810.0000	53 . 92	-2.50	51.42	70.00	-18.58	Peak
4	1810.0000	41.56	-2.50	39.06	50.00	-10.94	AVG
5	2495.0000	54.50	0.17	54.67	70.00	-15.33	Peak
6 *	2495.0000	40.68	0.17	40.85	5 0. 00	- 9. 15	AVG
7	3000.0000	47.94	1.59	49.53	70.00	-20.47	Peak
8	3000.0000	37.05	1.59	38.64	5 0. 00	-11.36	AVG
9	3540.0000	45.62	3.39	49.01	74.00	-24.99	Peak
10	3540.0000	34.77	3.39	38.16	54. 00	-15.84	AVG
11	4995.0000	42.51	7.65	50.16	74.00	-23.84	Peak
12	4995.0000	31.68	7.65	39. 33	54.00	-14.67	AVG





EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 110V/60Hz	Polarization	Vertical			
Test Mode	HDMI 1 2560*1440/75Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					

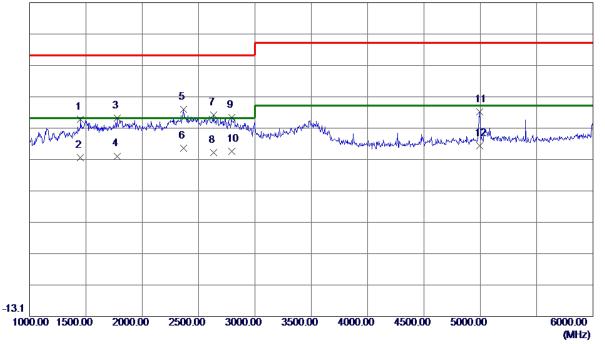


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1497.5000	58.10	-3.58	54.52	70.00	-15.48	Peak
2	1497.5000	43.57	-3.58	39.99	50.00	-10.01	AVG
3	1980. 0000	51.59	-1.92	49.67	70.00	-20. 33	Peak
4	1980. 0000	39.21	-1.92	37.29	50.00	-12.71	AVG
5	2297.5000	52.67	-0.64	52.03	70.00	-17.97	Peak
6	2297.5000	40.48	-0.64	39.84	5 0. 00	-10.16	AVG
7	2637.5000	51.36	0.57	51.93	70.00	-18. 0 7	Peak
8	2637.5000	39.19	0.57	39.76	50.00	-10.24	AVG
9	2997.5000	50.12	1.58	51.70	70.00	-18.30	Peak
10 *	2997.5000	38.60	1.58	40.18	50.00	-9.82	AVG
11	4990.0000	43.46	7.63	51.09	74.00	-22.91	Peak
12	4990.0000	32.31	7.63	39.94	54.00	-14.06	AVG





EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 110V/60Hz	Polarization	Horizontal			
Test Mode	HDMI 1 2560*1440/75Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1452. 5000	53. 66	-3.89	49.77	70.00	-20.23	Peak
2	1452. 5000	41.42	-3.89	37.53	50.00	-12.47	AVG
3	1777. 5000	52.80	-2.61	50.19	70.00	-19.81	Peak
4	1777. 5000	40.61	-2.61	38.00	50.00	-12.00	AVG
5	2367.5000	53.31	- 0 . 35	52. 96	70.00	-17.04	Peak
6 *	2367.5000	40.85	- 0 . 35	40.50	50.00	-9.50	AVG
7	2635.0000	5 0. 55	0.57	51.12	70.00	-18.88	Peak
8	2635.0000	38.61	0.57	39.18	50.00	-10.82	AVG
9	2792. 5000	49.23	1.01	50. 24	70.00	-19.76	Peak
10	2792. 5000	38.52	1.01	39. 53	50.00	-10.47	AVG
11	4995.0000	44.44	7.65	52. 0 9	74.00	-21.91	Peak
12	4995.0000	33.56	7.65	41.21	54.00	-12.79	AVG



4.2 CONDUCTED EMISSION MEASUREMENT AT AC MAINS POWER PORTS

4.2.1 LIMITS

Requirements for conducted emissions from AC mains power ports of Class A equipment

Table clause	Frequency Range MHz	Coupling Device	Detector Type / bandwidth	Class A Limits (dB(µV))
A8.1	0.15 - 0.5	AMN	Quasi Peak /	79
A0.1	0.5 - 30	Aivin	9 kHz	73
A8.2	0.15 - 0.5	AMN	Average /	66
A0.2	0.5 - 30		9 kHz	60

Requirements for conducted emissions from AC mains power ports of Class B equipment

Table clause	Frequency Range MHz	Coupling Device	Detector Type / bandwidth	Class B Limits (dB(µV))
	0.15 - 0.5		Oweri Deelu /	66-56
A9.1	0.5 - 5	AMN	Quasi Peak / 9 kHz	56
	5 - 30			60
	0.15 - 0.5			56-46
A9.2	0.5 - 5	AMN	Average / 9 kHz	46
	5 - 30		5 112	50

NOTE:

 The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value – Limit Value

4.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Measurement Software	Farad	EZ-EMC Ver.NB-03A 1-01	N/A	N/A
2	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 11, 2019
3	TWO-LINE V-NETWORK	R&S	ENV216	100526	Mar. 11, 2019
4	EMI Test Receiver	R&S	ESR3	101862	Aug. 11, 2019
5	Artificial-Mains Network	SCHWARZBECK	NSLK 8127	8127685	Jun. 25, 2019
6	Cable	N/A	RG400 12m	N/A	Mar. 23, 2019

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



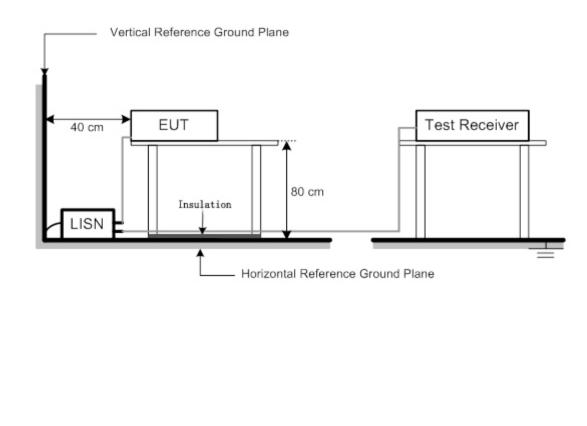
4.2.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation

4.2.5 TEST SETUP

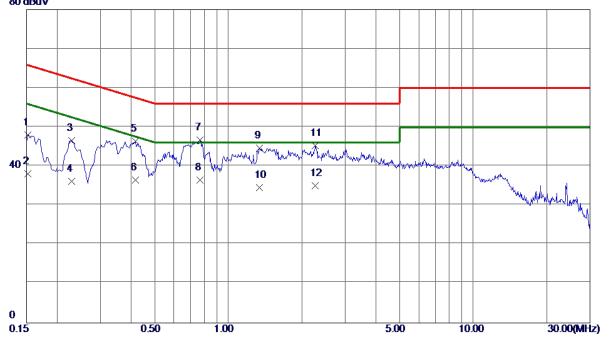




4.2.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 230V/50Hz	Phase	Line
Test Mode	D-SUB 1920*1080/60Hz		
Note	Cable:1.8m		
Test Engineer	Sam Wang		

80 dBuV

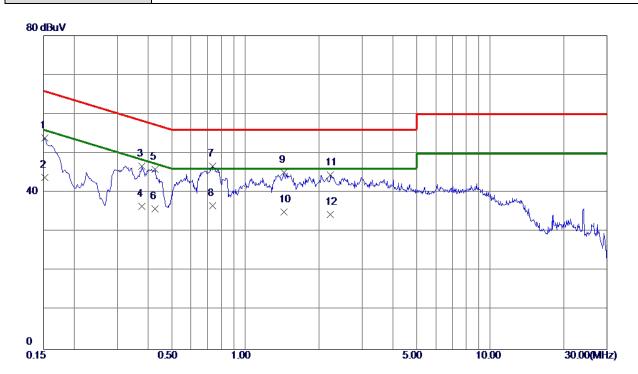


	Margin	Limit	Measure ment	Correct Factor	Reading Level	Freq.	No.
Detector	dB	dBuV	dBuV	dB	dBuV	MHz	
QP	-17.85	65.88	48.03	9.82	38.21	0.1522	1
AVG	-17.86	55.88	38.02	9.82	28.20	0.1522	2
QP	-15 . 93	62.49	46.56	9.83	36.73	0.2288	3
AVG	-16.26	52.49	36.23	9.83	26.40	0.2288	4
QP	-11. 0 2	57.49	46.47	9.87	36. 60	0.4177	5
AVG	-11. 0 2	47.49	36.47	9.87	26.60	0.4177	6
QP	-9.27	56. 00	46.73	9.91	36.82	0.7665	7 *
AVG	-9.51	46.00	36.49	9.91	26.58	0.7665	8
QP	-11.39	56.00	44.61	9.94	34.67	1.3425	9
AVG	-11.46	46.00	34.54	9.94	24.60	1.3425	10
QP	-10.73	56. 00	45.27	10.01	35.26	2.2628	11
AVG	-10.89	46.00	35.11	10.01	25.10	2.2628	12
QP AVG QP AVG QP AVG QP AVG QP	-15.93 -16.26 -11.02 -11.02 -9.27 -9.51 -11.39 -11.46 -10.73	62. 49 52. 49 57. 49 47. 49 56. 00 46. 00 56. 00 46. 00 56. 00	46. 56 36. 23 46. 47 36. 47 46. 73 36. 49 44. 61 34. 54 45. 27	9.83 9.83 9.87 9.87 9.91 9.91 9.94 9.94 9.94 10.01	36. 73 26. 40 36. 60 26. 60 36. 82 26. 58 34. 67 24. 60 35. 26	0. 2288 0. 2288 0. 4177 0. 4177 0. 7665 0. 7665 1. 3425 1. 3425 2. 2628	3 4 5 6 7 * 8 9 10 11





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 230V/50Hz	Phase	Neutral
Test Mode	D-SUB 1920*1080/60Hz		
Note	Cable:1.8m		
Test Engineer	Sam Wang		

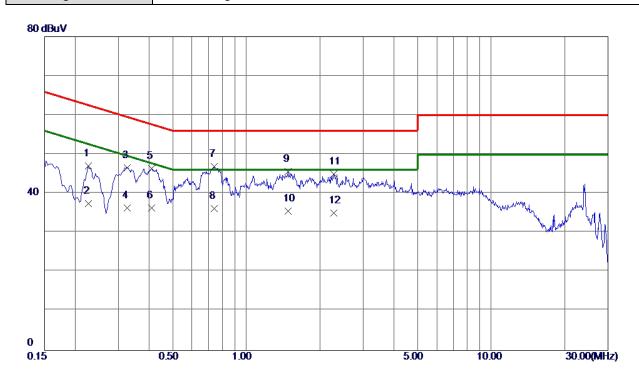


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1522	43.97	9.91	53.88	65.88	-12.00	QP
2	0.1522	33. 90	9.91	43.81	55.88	-12 . 0 7	AVG
3	0.3772	36.6 5	10.00	46.65	58.34	-11.69	QP
4	0.3772	26.51	10.00	36.51	48.34	-11.83	AVG
5	0.4290	35.96	10.02	45.98	57.27	-11.29	QP
6	0.4290	25.79	10.02	35.81	47.27	-11.46	AVG
7 *	0.7350	36.63	10.08	46.71	56. 00	-9.29	QP
8	0.7350	26.59	10.08	36.67	46.00	-9.33	AVG
9	1.4392	34.98	10.15	45.13	56. 00	-10.87	QP
10	1.4392	24.90	1 0 . 15	35. 0 5	46.00	-1 0. 9 5	AVG
11	2. 2290	34.29	10.20	44.49	56. 00	-11.51	QP
12	2. 2290	24.20	10.20	34.40	46.00	-11.60	AVG





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 230V/50Hz	Phase	Line
Test Mode	HDMI 1 2560*1440/75Hz		
Note	Cable:1.8m		
Test Engineer	Sam Wang		

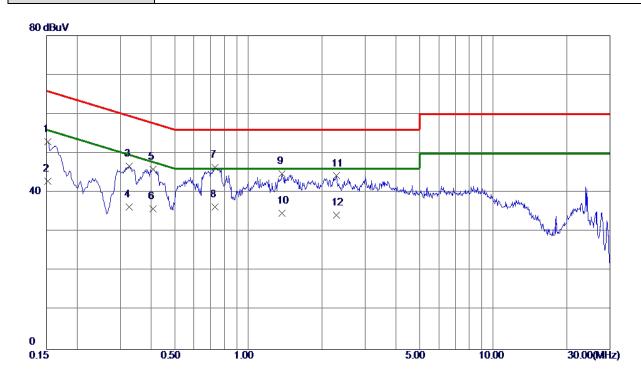


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.2265	37.21	9.83	47.04	62.58	-15.54	QP
2	0.2265	27.60	9.83	37.43	52. 58	-15.15	AVG
3	0.3255	36.76	9.85	46.61	59. 57	-12.96	QP
4	0.3255	26.40	9.85	36.25	49.57	-13.32	AVG
5	0.4110	36.57	9.87	46.44	57.63	-11. 19	QP
6	0.4110	26.40	9.87	36.27	47.63	-11.36	AVG
7 *	0.7417	37.05	9.90	46.95	56. 00	- 9. 0 5	QP
8	0.7417	26.20	9.90	36.10	46.00	-9. 90	AVG
9	1.4843	35.66	9.95	45.61	56. 00	-10.39	QP
10	1.4843	25.60	9.95	35.55	46.00	-10.45	AVG
11	2.2807	34.99	10.01	45.00	56.00	-11.00	QP
12	2.2807	24.96	10.01	34.97	46.00	-11.03	AVG





		1	
EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 230V/50Hz	Phase	Neutral
Test Mode	HDMI 1 2560*1440/75Hz		
Note	Cable:1.8m		
Test Engineer	Sam Wang		

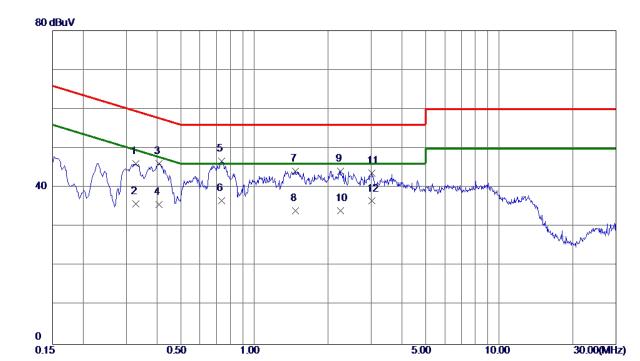


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1522	43.06	9.91	52. 97	65.88	-12.91	QP
2	0.1522	33. 00	9.91	42.91	55.88	-12.97	AVG
3	0.3255	36.75	9.98	46.73	59. 57	-12.84	QP
4	0.3255	26.40	9.98	36.38	49.57	-13. 19	AVG
5	0.4087	35.87	10.01	45.88	57.67	-11.79	QP
6	0.4087	25. 80	10.01	35.81	47.67	-11.86	AVG
7 *	0.7304	36.30	10.08	46.38	56. 00	- 9.6 2	QP
8	0.7304	26.19	10.08	36.27	46.00	-9.73	AVG
9	1.3695	34.69	10.15	44.84	56.00	-11.16	QP
10	1.3695	24.60	10.15	34.75	46.00	-11.25	AVG
11	2.2898	34.04	10.20	44.24	56. 00	-11.76	QP
12	2.2898	24.00	10.20	34.20	46.00	-11.80	AVG





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 230V/50Hz	Phase	Line
Test Mode	HDMI 1 1080P		
Note	Cable:1.8m		
Test Engineer	Sam Wang		

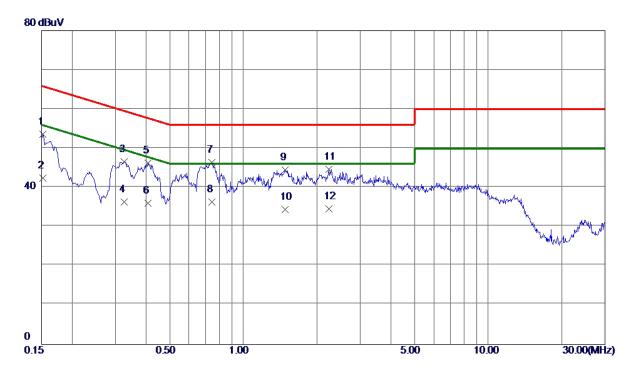


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.3277	36.16	9.85	46.01	59. 51	-13. 50	QP
2	0.3277	26.00	9.85	35.85	49. 51	-13.66	AVG
3	0.4087	36.15	9.87	46.02	57.67	-11.65	QP
4	0.4087	25.80	9.87	35.67	47.67	-12.00	AVG
5 *	0.7372	36.82	9.90	46.72	56. 00	-9.28	QP
6	0.7372	26.80	9.90	36.70	46.00	-9.30	AVG
7	1.4708	34.23	9.95	44.18	56. 00	-11.82	QP
8	1.4708	24.20	9.95	34.15	46.00	-11.85	AVG
9	2.2448	34.15	10.01	44.16	56. 00	-11.84	QP
10	2.2448	24.10	10.01	34.11	46.00	-11.89	AVG
11	3.0143	33.65	10.06	43.71	56. 00	-12.29	QP
12	3.0143	26.50	10.06	36. 56	46.00	-9.44	AVG





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 230V/50Hz	Phase	Neutral
Test Mode	HDMI 1 1080P		
Note	Cable:1.8m		
Test Engineer	Sam Wang		

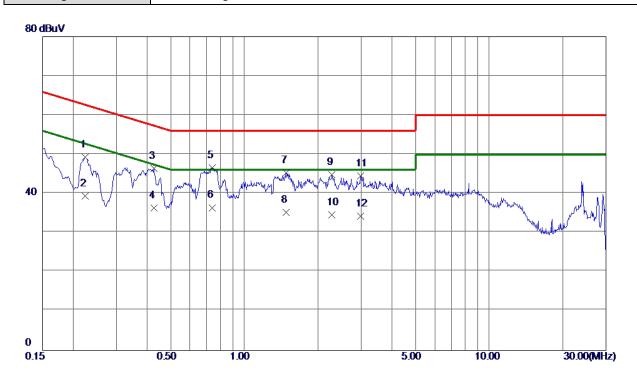


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1522	43.61	9.91	53. 5 2	65.88	-12.36	QP
2	0.1522	32. 50	9.91	42.41	55.88	-13.47	AVG
3	0.3255	36. 63	9.98	46.61	59. 57	-12.96	QP
4	0.3255	26.40	9.98	36.38	49.57	-13. 19	AVG
5	0.4087	36.17	10.01	46.18	57.67	-11.49	QP
6	0.4087	26.00	10.01	36.01	47.67	-11. 66	AVG
7 *	0.7440	36.25	10.08	46.33	56. 00	- 9. 67	QP
8	0.7440	26.19	10.08	36.27	46.00	-9.73	AVG
9	1.4775	34.37	10 . 15	44.52	56.00	-11.48	QP
10	1.4775	24.30	1 0. 15	34.45	46.00	-11.55	AVG
11	2.2313	34.41	10.20	44.61	56. 00	-11. 39	QP
12	2.2313	24.40	10.20	34.60	46.00	-11.40	AVG





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 110V/60Hz	Phase	Line
Test Mode	HDMI 1 2560*1440/75Hz		
Note	Cable:1.8m		
Test Engineer	Sam Wang		

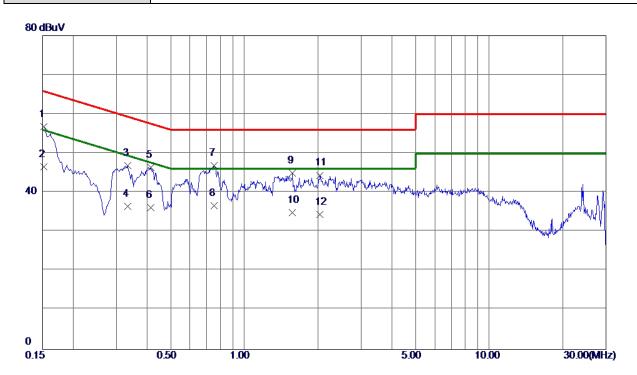


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.2243	39.52	9.83	49.35	62.66	-13.31	QP
2	0.2243	29.49	9.83	39.32	52.66	-13.34	AVG
3	0.4267	36.57	9.87	46.44	57.32	-1 0. 88	QP
4	0.4267	26.40	9.87	36.27	47.32	-11. 0 5	AVG
5*	0.7417	36.73	9.90	46.63	56. 00	-9.37	QP
6	0.7417	26.50	9.90	36.40	46.00	-9.60	AVG
7	1.4798	35.37	9.95	45.32	56. 00	-1 0. 68	QP
8	1.4798	25.30	9.95	35.25	46.00	-1 0. 75	AVG
9	2.2740	34.75	10.01	44.76	56. 00	-11.24	QP
10	2.2740	24.60	10.01	34.61	46.00	-11.39	AVG
11	2.9918	34.37	10.06	44.43	56.00	-11.57	QP
12	2.9918	24.20	10.06	34.26	46.00	-11.74	AVG





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 110V/60Hz	Phase	Neutral
Test Mode	HDMI 1 2560*1440/75Hz		
Note	Cable:1.8m		
Test Engineer	Sam Wang		



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1522	46.83	9.91	56.74	65.88	-9.14	QP
2	0.1522	36.60	9.91	46.51	55.88	-9.37	AVG
3	0.3345	36.83	9.98	46.81	59.34	-12.53	QP
4	0.3345	26.50	9.98	36.48	49.34	-12.86	AVG
5	0.4155	36.38	10.01	46.39	57.54	-11.15	QP
6	0.4155	26.20	10.01	36.21	47.54	-11.33	AVG
7 *	0.7507	36.80	10.08	46.88	56. 00	-9.12	QP
8	0.7507	26.61	10.08	36.69	46.00	-9.31	AVG
9	1.5698	34.79	10.16	44.95	56. 00	-11. 0 5	QP
10	1.5698	24.70	10.16	34.86	46.00	-11.14	AVG
11	2.0400	34.21	10.19	44.40	56. 00	-11. 60	QP
12	2.0400	24.20	10.19	34.39	46.00	-11. 61	AVG



5. EMC EMISSION TEST- EN 55032:2015+AC:2016

5.1 RADIATED EMISSION

5.1.1 LIMITS

Class A equipment up to 1000MHz

Table	Frequency		Class A limits		
clause	range MHz	Facility (see Table A.1)	Distance m	Detector type/ bandwidth	dB(µV/m)
	30-230	OATS/SAC	10		40
A2.1	230-1000	UATS/SAC	10	Quasi peak / 120 kHz	47
	30-230	OATS/SAC	3		50
A2.2	230-1000	UATS/SAC	3		57
	30-230	FAR	10		42 to 35
A2.3	230-1000	ΓΑΚ	10	Quasi peak /	42
	30-230	FAR	3	120 kHz	52 to 45
A2.4	230-1000	FAR	3		52
Apply onl	y A2.1 or A2.2 or A	A2.3 or A2.4 acr	oss the entire f	frequency range.	

Class A equipment above 1000MHz

Table	Frequency		Measureme	Class A limits		
clause	range MHz	Facility (see Table A.1)	Distance m	Detector type/bandwidth	dB(µV/m)	
_	1000-3000			Average /	56	
A3.1	3000-6000	FSOATS	3 -	1 MHz	60	
	1000-3000	FSUATS	3	Peak /	76	
A3.2	3000-6000			1 MHz	80	
	Apply A3.1 and A3.2 across the frequency range from 1 000 MHz to the highest required frequency of measurement derived from Table 1.					

Class B equipment up to 1000MHz

Table	Frequency		Measureme	Class B limits	
clause	range MHz	Facility (see Table A.1)	Distance m	Detector type/ bandwidth	dB(µV/m)
	30-230	OATS/SAC	10		30
A4.1	230-1000	UAI 3/SAU	10	Quasi peak /	37
	30-230	OATS/SAC	3	120 kHz	40
A4.2	230-1000	UATS/SAC	5		47
	30-230	FAR	10		32 to 25
A4.3	230-1000	FAR	10	Quasi peak /	32
	30-230	FAR	3	120 kHz	42 to 35
A4.4	230-1000	ГАК	3		42
Apply onl	y table clause A4.	1 or A4.2 or A4.3	3 or A4.4 acros	s the entire frequence	cy range.

These requirements are not applicable to the local oscillator and harmonics frequencies of equipment covered by Table A.6.

Class B equipment above 1000MHz

Table Frequ			rement	Class B limits
clause MH		able Distar	ce Detector type/bandw	(i)
	-3000		Average	/ 50
A5.1 3000	-6000 FSOA	TS 3	1 MHz	54
	-3000 -300A	3 3	Peak /	70
A5.2 3000	-6000		1 MHz	74

Apply A5.1 and A5.2 across the frequency range from 1 000 MHz to the highest required frequency of measurement derived from Table 1.

Notes:

- (1) The limit for radiated test was performed according to as following: EN 55032
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value



Required highest frequency for radiated measurement

Highest internal frequency (F _x)	Highest measured frequency
MHz	MHz
F _x ≦108	1000
108 <f<sub>x ≦500</f<sub>	2000
500< F _x ≦1000	5000
F _x >1000	5 th up to a maximum 6 GHz,

Note for FM and TV broadcast receiver, F_x is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.

5.1.2 MEASUREMENT INSTRUMENTS LIST

Up to 1GHz:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Receiver	Keysight	N9038A	MY54450004	Aug. 11, 2019
2	MXE EMI Receiver	Agilent	N9038A	MY53220133	Mar. 11, 2019
3	Pre-Amplifier	Mini-Circuits	EMC 9135	980284	Mar. 11, 2019
4	Pre-Amplifier	Mini-Circuits	EMC 9135	980283	Mar. 11, 2019
5	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	586	Nov. 09, 2018
6	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	587	Jan. 04, 2019
7	Cable	emci	LMR-400(5m +11m+15m)	N/A	Jan. 11, 2019
8	Cable	emci	LMR-400(5m +8m+15m)	N/A	Jan. 11, 2019
9	Measurement Software	Farad	EZ-EMC Ver.BTL-2AN T-1	N/A	N/A
10	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
11	Attenuator	SHX	TS2-6dB-6G- A	16101101	Nov. 09, 2018
12	Attenuator	SHX	TS2-6dB-6G- A	16101102	Jan. 04, 2019

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



Above 1GHz:

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Cable	Micable Inc.	B10-01-01-5 M(10MHz~26	18047123	May 25, 2019
	Cabic	Micable inc.	.5GHz)	10047123	May 23, 2013
2	Measurement Software	Farad	EZ-EMC Ver.BTL-2AN T-1	N/A	N/A
3	Cable	Micable Inc.	B10-01-01-15 M(10MHz~26 .5GHz)	18047122	May 25, 2019
4	Multi-Device Controller	ETS-Lindgren	2090	N/A	N/A
5	Controller	MF	MF-7802	MF780208159	N/A
6	Horn Antenna	EMCO	3115	9605-4803	Mar. 11, 2019
7	Amplifier	Agilent	8449B	3008A02584	Aug. 11, 2019
8	MXE EMI Receiver	Agilent	N9038A	MY53220133	Mar. 11, 2019

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.

5.1.3 TEST PROCEDURE

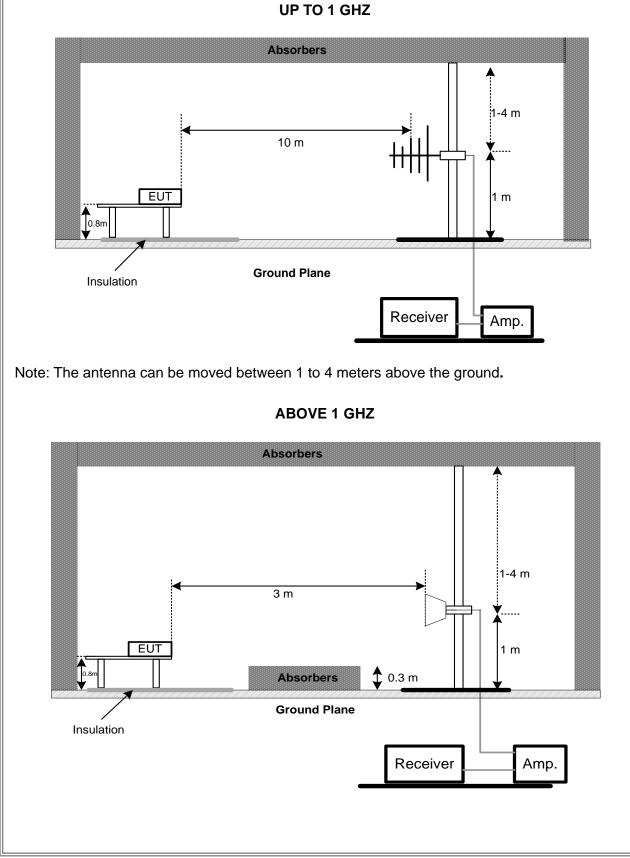
- h. The measuring distance of 10 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz).
- i. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- j. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- k. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- m. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- n. For the actual test configuration, please refer to the related Item Block Diagram of system tested (please refer to 3.3).



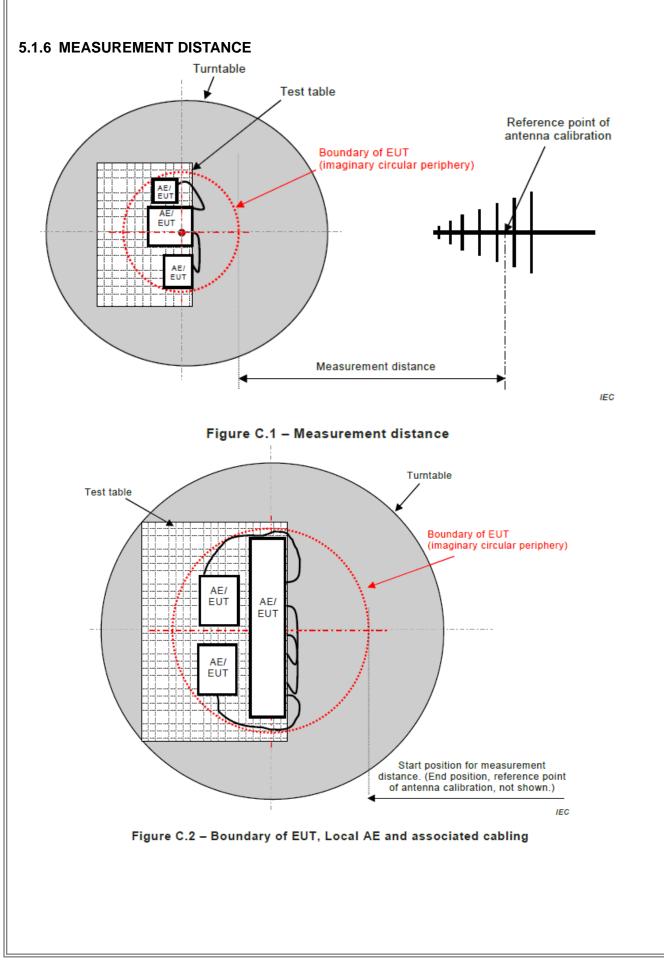
5.1.4 DEVIATION FROM TEST STANDARD

No deviation

5.1.5 TEST SETUP









5.1.7 TEST RESULTS (UP TO 1 GHZ)

EUT	LCD Monitor	Model Name	**273QCX******		
Temperature	25°C	Relative Humidity	60%		
Test Voltage	AC 230V/50Hz	Polarization	Vertical		
Test Mode	HDMI 1 2560*1440/75Hz				
Note	Cable:1.8m				
Test Engineer	Sam Wang				

80 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	83.3500	44.90	-21.38	23.52	30.00	-6.48	QP
2 *	184.2300	43.43	-17.76	25.67	30.00	-4.33	QP
3	219. 1500	44.19	-18.81	25.38	30.00	-4.62	QP
4	324.8800	43.93	-14.54	29.39	37.00	-7.61	QP
5	764.2900	34.66	-6.10	28.56	37.00	-8.44	QP
6	874.3850	36.53	-4.57	31.96	37.00	-5. 0 4	QP





EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	60%			
Test Voltage	AC 230V/50Hz	Polarization	Horizontal			
Test Mode	HDMI 1 2560*1440/75Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					
80 dBuV/m						



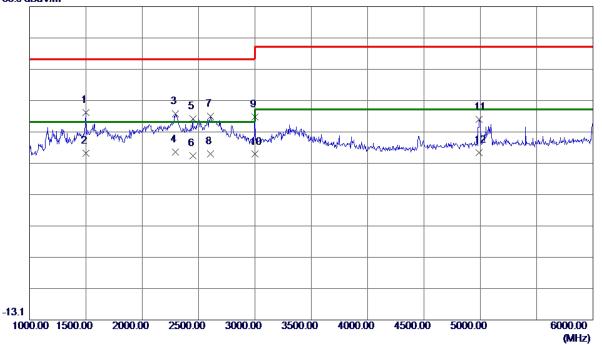
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	175. 5000	42.68	-17.33	25.35	30.00	-4.65	QP
2	218. 1800	44.44	-19.25	25.19	30.00	-4.81	QP
3	486.8700	41.49	-10.80	30.69	37.00	-6.31	QP
4	570.2900	41.34	-9.32	32.02	37.00	-4.98	QP
5	695.4200	39.03	-7.78	31.25	37.00	-5.75	QP
6 *	865.1700	37.51	-5.12	32. 39	37.00	-4.61	QP



5.1.8 TEST RESULTS (ABOVE 1 GHZ)

EUT	LCD Monitor	Model Name	**273QCX******		
Temperature	25°C	Relative Humidity	60%		
Test Voltage	AC 230V/50Hz	Polarization	Vertical		
Test Mode	HDMI 1 2560*1440/75Hz				
Note	Cable:1.8m				
Test Engineer	Sam Wang				

86.9 dBuV/m



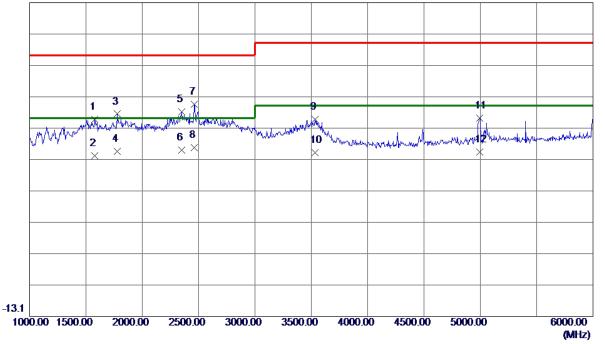
Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1500.0000	56.75	-3.56	53.19	70.00	-16.81	Peak
1500.0000	43.61	-3.56	40.05	5 0. 00	-9.95	AVG
2295.0000	53.34	- 0. 65	52.69	70.00	-17.31	Peak
2295.0000	41.15	- 0. 65	40.50	50.00	- 9. 50	AVG
2447.5000	51.07	-0.02	51. 0 5	70.00	-18.95	Peak
2447.5000	39.30	-0.02	39.28	5 0. 00	-10.72	AVG
2605.0000	51.34	0.48	51.82	70.00	-18.18	Peak
2605.0000	39.44	0.48	39.92	5 0. 00	-10.08	AVG
3000. 0000	50.03	1.59	51.62	70.00	-18.38	Peak
3000. 0000	38.21	1.59	39.80	50.00	-10.20	AVG
4990.0000	43.35	7.63	50.9 8	74.00	-23.02	Peak
4990.0000	32.68	7.63	40.31	54. 00	-13.69	AVG
	MHz 1500.0000 1500.0000 2295.0000 2447.5000 2447.5000 2605.0000 2605.0000 3000.0000 3000.0000 4990.0000	Freq. Level	Freq. Level Factor MHz dBuV/m dB 1500.0000 56.75 -3.56 1500.0000 43.61 -3.56 2295.0000 53.34 -0.65 2295.0000 41.15 -0.65 2447.5000 51.07 -0.02 2447.5000 39.30 -0.02 2605.0000 51.34 0.48 3000.0000 50.03 1.59 3000.0000 38.21 1.59 4990.0000 43.35 7.63	Freq. Level Factor ment MHz dBuV/m dB dBuV/m 1500.0000 56.75 -3.56 53.19 1500.0000 43.61 -3.56 40.05 2295.0000 53.34 -0.65 52.69 2295.0000 41.15 -0.65 40.50 2447.5000 51.07 -0.02 51.05 2447.5000 39.30 -0.02 39.28 2605.0000 51.34 0.48 51.82 2605.0000 39.44 0.48 39.92 3000.0000 50.03 1.59 51.62 3000.0000 38.21 1.59 39.80 4990.0000 43.35 7.63 50.98	Freq. Level Factor ment Limit MHz dBuV/m dB dBuV/m dBuV/m 1500.0000 56.75 -3.56 53.19 70.00 1500.0000 43.61 -3.56 40.05 50.00 2295.0000 53.34 -0.65 52.69 70.00 2295.0000 41.15 -0.65 40.50 50.00 2447.5000 51.07 -0.02 51.05 70.00 2447.5000 39.30 -0.02 39.28 50.00 2605.0000 51.34 0.48 51.82 70.00 2605.0000 39.44 0.48 39.92 50.00 3000.0000 50.03 1.59 51.62 70.00 3000.0000 38.21 1.59 39.80 50.00 4990.0000 43.35 7.63 50.98 74.00	Freq.LevelFactormentLimitMarginMHzdBuV/mdBdBuV/mdBuV/mdB1500.000056.75-3.5653.1970.00-16.811500.000043.61-3.5640.0550.00-9.952295.000053.34-0.6552.6970.00-17.312295.000041.15-0.6540.5050.00-9.502447.500051.07-0.0251.0570.00-18.952447.500039.30-0.0239.2850.00-10.722605.000051.340.4851.8270.00-18.182605.000039.440.4839.9250.00-10.083000.000050.031.5951.6270.00-18.383000.000038.211.5939.8050.00-10.204990.000043.357.6350.9874.00-23.02





EUT	LCD Monitor	Model Name	**273QCX******		
Temperature	25°C	Relative Humidity	60%		
Test Voltage	AC 230V/50Hz	Polarization	Horizontal		
Test Mode	HDMI 1 2560*1440/75Hz				
Note	Cable:1.8m				
Test Engineer	Sam Wang				

86.9 dBuV/m



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector
1	1580.0000	53.07	-3.29	49.78	70.00	-20.22	Peak
2	158 0. 0000	41.33	-3.29	38.04	50.00	-11.96	AVG
3	1777. 5000	54.01	-2.61	51.40	70.00	-18.60	Peak
4	1777. 5000	42.10	-2.61	39.49	50.00	-10.51	AVG
5	2350.0000	52.45	-0.42	52. 0 3	70.00	-17.97	Peak
6	2350.0000	40.32	- 0. 42	39.90	50.00	-10.10	AVG
7	2460.0000	54.53	0.03	54.56	70.00	-15.44	Peak
8 *	2460.0000	40.64	0.03	40.67	50.00	-9.33	AVG
9	3535.0000	46.42	3.37	49.79	74.00	-24.21	Peak
10	3535.0000	35.65	3.37	39.02	54. 00	-14.98	AVG
11	4992. 5000	42.52	7.64	50.16	74.00	-23.84	Peak
12	4992. 5000	31.71	7.64	39.35	54. 00	-14.65	AVG



5.2 CONDUCTED EMISSION MEASUREMENT AT AC MAINS POWER PORTS

5.2.1 LIMITS

Requirements for conducted emissions from AC mains power ports of Class A equipment

Table clause	Frequency Range MHz	Coupling Device	Detector Type / bandwidth	Class A Limits (dB(µV))			
A9.1	0.15 - 0.5	AMN	Quasi Peak / 9 kHz	79			
A9.1	0.5 - 30	AIVIN		73			
A9.2	0.15 - 0.5	AMN	Average /	66			
A9.2	0.5 - 30	AIVIIN	9 kHz	60			
Apply A9.1 and A9.2 across the entire frequency range.							

Requirements for conducted emissions from AC mains power ports of Class B equipment

Table clause	Frequency Range MHz	Coupling Device	Detector Type / bandwidth	Class B Limits (dB(µV))				
	0.15 - 0.5		Quasi Peak / 9 kHz	66-56				
A10.1	0.5 - 5	AMN		56				
	5 - 30			60				
	0.15 - 0.5			56-46				
A10.2	0.5 - 5	AMN	Average / 9 kHz	46				
	5 - 30		J KI IZ	50				
Apply A10.1 a	Apply A10.1 and A10.2 across the entire frequency range.							

Apply A10.1 and A10.2 across the entire frequence

NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value – Limit Value

5.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Measurement Software	Farad	EZ-EMC Ver.NB-03A 1-01	N/A	N/A
2	50Ω Terminator	SHX	TF2-3G-A	08122901	Mar. 11, 2019
3	TWO-LINE V-NETWORK	R&S	ENV216	100526	Mar. 11, 2019
4	EMI Test Receiver	R&S	ESR3	101862	Aug. 11, 2019
5	Artificial-Mains Network	SCHWARZBECK	NSLK 8127	8127685	Jun. 25, 2019
6	Cable	N/A	RG400 12m	N/A	Mar. 23, 2019

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



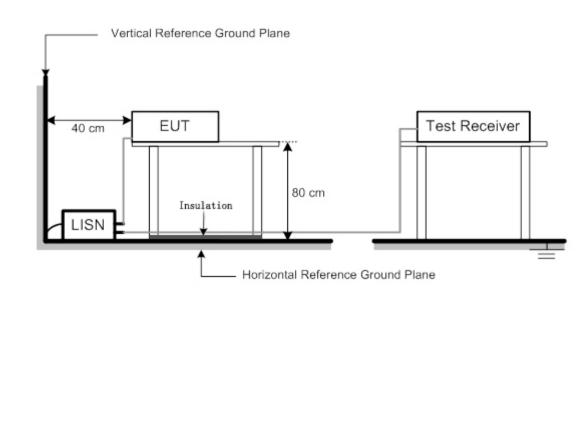
5.2.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.2.4 DEVIATION FROM TEST STANDARD

No deviation

5.2.5 TEST SETUP

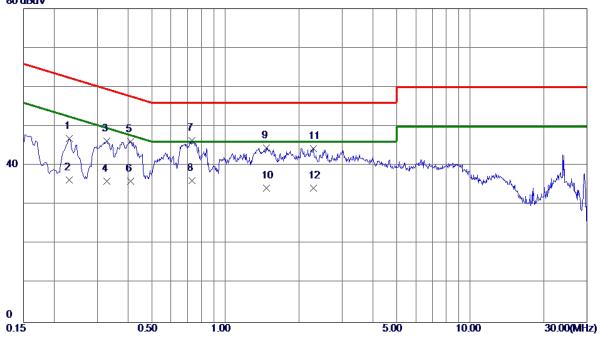




5.2.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	53%			
Test Voltage	AC 230V/50Hz	Phase	Line			
Test Mode	HDMI 1 2560*1440/75Hz					
Note	Cable:1.8m					
Test Engineer	Sam Wang					

80 dBuV

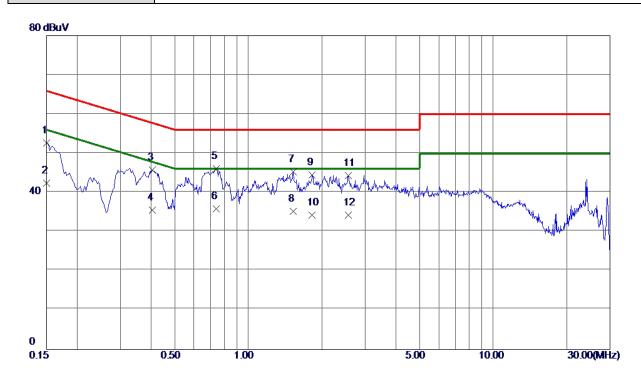


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.2310	36. 98	9.83	46.81	62.41	-15. 60	QP
2	0.2310	26.50	9.83	36.33	52.41	-16. 0 8	AVG
3	0.3277	36.39	9.85	46.24	59. 51	-13.27	QP
4	0.3277	26.20	9.85	36.05	49.51	-13.46	AVG
5	0.4110	36.26	9.87	46.13	57.63	-11. 5 0	QP
6	0.4110	26.10	9.87	35.97	47.63	-11. 66	AVG
7 *	0.7327	36.49	9.90	46.39	56. 00	-9. 61	QP
8	0.7327	26.20	9.90	36.10	46.00	-9. 90	AVG
9	1.4708	34.58	9.95	44.53	56.00	-11.47	QP
10	1.4708	24.30	9.95	34.25	46.00	-11.75	AVG
11	2.2943	34.29	10.01	44.30	56.00	-11.70	QP
12	2.2943	24.20	10.01	34.21	46.00	-11.79	AVG





EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	53%
Test Voltage	AC 230V/50Hz	Phase	Neutral
Test Mode	HDMI 1 2560*1440/75Hz		
Note	Cable:1.8m		
Test Engineer	Sam Wang		



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin	
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	0.1500	42.66	9.91	52. 57	66.00	-13.43	QP
2	0.1500	32.50	9.91	42.41	56. 00	-13. 59	AVG
3	0.4062	35.68	10.01	45.69	57.73	-12.04	QP
4	0.4062	25.50	10.01	35.51	47.73	-12.22	AVG
5 *	0.7395	35.99	10.08	46.07	56. 00	-9.93	QP
6	0.7395	25.79	10.08	35.87	46.00	-10.13	AVG
7	1.5293	35. 0 9	10.16	45.25	56.00	-10.75	QP
8	1.5293	25.10	10.16	35.26	46.00	-10.74	AVG
9	1.8195	34.29	10.18	44.47	56. 00	-11. 53	QP
10	1.8195	24.10	1 0. 18	34.28	46.00	-11.72	AVG
11	2.5574	34.15	10.22	44.37	56. 00	-11.63	QP
12	2.5574	24.00	10.22	34.22	46.00	-11.78	AVG



6. HARMONIC AND FLICKER TEST

6.1 HARMONIC CURRENT EMISSIONS

6.1.1 LIMITS

		E	EN 61000-3-2	2		
Equipment Category	Harmonic Order	Max. Permissible Harmonic Current	Equipment Category	Harmonic Order	Max. Permissible Harmonic Current	
	n	A		n	A	mA/w
	Odd Ha	rmonics		Odd	d Harmonics of	only
	3	2.30		3	2.30	3.4
	5	1.14		5	1.14	1.9
	7	0.77	Class D	7	0.77	1.0
	9	0.40		9	0.40	0.5
	11	0.33		11	0.33	0.35
Class A	13	0.21		13	0.21	0.30
	15≤n≤39	0.15 x 15/n		15≤n≤39	0.15 x 15/n	3.85/n
	Even Ha	armonics				
	2	1.08				
	4	0.43				
	6	0.30				
	8≤n≤40	0.23 x 8/n				

6.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Harmonics and Flicker Analyzer	California Instruments	PACS-1	72344	Aug. 13, 2019
2	3KVA AC Power source	California Instruments	3001ix	56309	Aug. 11, 2019
3	Measurement Software	California	CTS4.0 Version 4.18	N/A	N/A

Remark: "N/A" denotes no model name, no serial No. or no calibration specified. All calibration period of equipment list is one year.



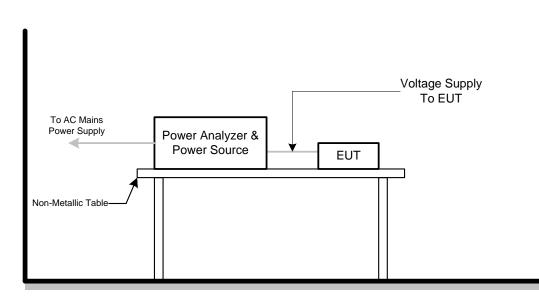
6.1.3 TEST PROCEDURE

- a. The EUT was placed on the top of a wooden table 0.8 meters above the ground and operated to produce the maximum harmonic components under normal operating conditions.
- b. The classification of EUT is according to of EN 61000-3-2. The EUT is classified as follows:
 - Class A: Balanced three-phase equipment, Household appliances excluding equipment as Class D, Tools excluding portable tools, Dimmers for incandescent lamps, audio equipment, equipment not specified in one of the three other classes.
 - Class B: Portable tools; Arc welding equipment which is not professional equipment.
 - Class C: Lighting equipment.
 - Class D: Equipment having a specified power less than or equal to 600 W of the following types: Personal computers and personal computer monitors and television receivers.
- c. The correspondent test program of test instrument to measure the current harmonics emanated from EUT is chosen. The measure time shall be not less than the time necessary for the EUT to be exercised.

6.1.4 DEVIATION FROM TEST STANDARD

No deviation

6.1.5 TEST SETUP

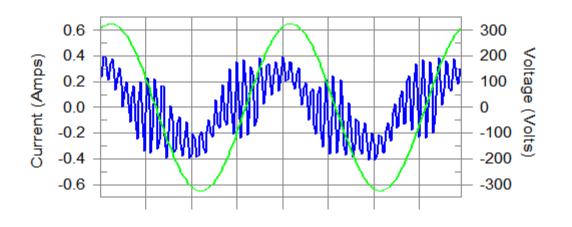




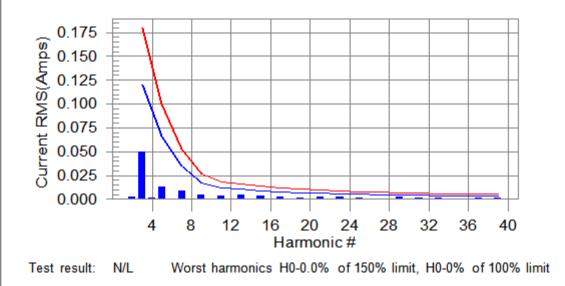
6.1.6 TEST RESULTS

Harmonic - Class D						
EUTLCD MonitorModel Name**273QCX**						
Temperature	25°C	Relative Humidity	55%			
Test Voltage	AC 230V/50Hz					
Test Mode	HDMI 1 2560*1440/75Hz					





Harmonics and Class D limit line European Limits







Note: The EUT power level is below 75.0 Watts and therefore has no defined limits





UT		LCD Mor	e Source Verific	Model Na	,	**273QCX******
emperat	ure	25°C		Relative		55%
est Volta		AC 230V	/50Hz		,	
est Mod	•		2560*1440/75Hz			
	•					
		values duri		quency(Hz): 50		
	Peak (Amp	ns):229.99		VS (Amps): 0.2		
	Fund (Amp				918	
Po	ower (Watt	s): 35.3	Pow	ver Factor: 0.6	60	
larm#	Harmoni	cs V-rms	Limit V-rms	% of Limit	Status	
2		0.130	0.460	28.26	OK	
2 3		0.360	2.069	17.38	ÖK	
		0.064	0.460	13.92	OK	
4 5 6 7		0.105	0.920	11.38	OK	
6 7		0.022 0.030	0.460 0.690	4.71 4.40	OK OK	
8		0.030	0.460	3.99	OK	
9		0.041	0.460	8.99	ŌK	
10		0.022	0.460	4.86	OK	
11 12		0.015 0.015	0.230 0.230	6.70 6.51	OK OK	
12		0.015	0.230	8.50	OK	
14		0.008	0.230	3.56	ÖK	
15		0.014	0.230	6.25	OK	
16		0.013	0.230	5.71	OK	
17 18		0.011 0.018	0.230 0.230	4.90 7.98	OK OK	
19		0.015	0.230	6.41	OK	
20		0.019	0.230	8.15	OK	
21		0.019	0.230	8.27	OK	
22 23		0.012 0.013	0.230 0.230	5.35 5.51	OK OK	
23		0.006	0.230	2.80	OK	
25		0.006	0.230	2.63	OK	
26		0.009	0.230	3.92	OK	
27 28		0.006 0.007	0.230 0.230	2.82 2.86	OK OK	
29		0.007	0.230	4.24	OK	
30		0.006	0.230	2.54	OK	
31		0.010	0.230	4.51	OK	
32 33		0.006 0.006	0.230 0.230	2.68 2.78	OK OK	
33 34		0.008	0.230	1.62	OK	
35		0.004	0.230	2.17	OK	
36		0.004	0.230	1.54	OK	
37		0.004	0.230	1.77	OK	
38 39		0.004 0.008	0.230 0.230	1.77 3.51	OK OK	
40		0.000	0.230	3.06	OK	



6.2 VOLTAGE CHANGES, VOLTAGE FLUCTUATIONS AND FLICKER TEST

6.2.1 LIMITS

Tests	Limits EN 61000-3-3	Descriptions
Pst	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator
Plt	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator
dc	≤ 3.3%	Relative Steady-State V-Chang
dmax	≤ 4%	Maximum Relative V-change
d (t)	≤ 500 ms	Relative V-change characteristic

6.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Harmonics and Flicker Analyzer	California Instruments	PACS-1	72344	Aug. 13, 2019
2	3KVA AC Power source	California Instruments	3001ix	56309	Aug. 11, 2019
3	Measurement Software	California	CTS4.0 Version 4.18	N/A	N/A

Remark: "N/A" denotes no model name, no serial No. or no calibration specified. All calibration period of equipment list is one year.

6.2.3 TEST PROCEDURE

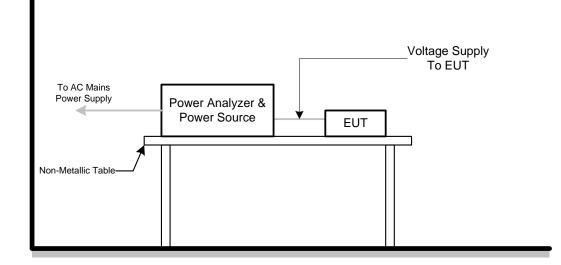
- a. Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in EN 61000-3-3 depend on which standard adopted for compliance measurement.
- b. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.

6.2.4 DEVIATION FROM TEST STANDARD

No deviation



6.2.5 TESTSETUP





6.2.6 TEST RESULTS

	LCD Monitor	Model Name	**273QCX******
•	25°C	Relative Humidit	y 55%
0	AC 230V/50Hz		
Fest Mode	HDMI 1 2560*1440/7	′5Hz	
Psti and limit line		European	Limits
0.75 0.50 0.25			
15:02:48			
Plt and limit line			
Parameter values record Vrms at the end of test T-max (mS): Highest dc (%): Highest dmax (%): Highest Pst (10 min. period	(Volt):229.93 0 0.00	Test limit (%):´ 3.30 Test limit (%): 4.00 Test limit: 1.000	Pass Pass Pass Pass Pass



7. EMC IMMUNITY TEST

7.1 STANDARD COMPLIANCE/SEVERITY LEVEL/CRITERIA

Tests Standard No.	Test Specification Level / Test Mode	Test Ports	Criteria
Electrostatic discharge	±8 kV air discharge ±4 kV contact discharge (Direct Mode)	Enclosure	В
EN 61000-4-2 (ESD)	±4kV HCP discharge ±4kV VCP discharge (Indirect Mode)	Enclosure	В
Radiated, radio-frequency, electromagnetic field immunity EN 61000-4-3 (RS)	80 MHz to 1000 MHz 3V/m(unmodulated, r.m.s), 1 kHz, 80%, AM modulated	Enclosure	A
Electrical fast transient/burst immunity EN 61000-4-4 (EFT/Burst)	±0.5kV(peak) 5/50ns Tr/Th 5kHz Repetition Frequency (100kHz Repetition Frequency for xDSL equipment)	Signal ports and telecommunication ports (Only applicable to cable length>3 m)	В
	±0.5kV(peak) 5/50ns Tr/Th 5kHz Repetition Frequency	DC Power Ports	В
	±1 kV(peak) 5/50ns Tr/Th 5kHz Repetition Frequency	AC Power Ports	В
	±1 kV(peak) 10/700 Tr/Th μs (Noτe) (without primary protection)	Signal ports and telecommunication ports	С
	±4 kV(peak) 10/700 Tr/Th μs (NoTE) (with primary protectors fitted)	(applicable only to ports connect directly to outdoor cables)	с
Surge immunity EN 61000-4-5 (Surges)	±0.5 kV(peak) 1.2/50(8/20) Tr/Th μs	DC Power Ports (applicable only to ports connect directly to outdoor cables)	В
	±1 kV(peak) 1.2/50(8/20) Tr/Th μs (line to line)		В
	±2 kV(peak) 1.2/50(8/20) Tr/Th μs (line to earth or ground)	AC Power Ports	В





	0.15 MHz to 80 MHz 3V(unmodulated, r.m.s), 1kHz 80%, AM 150Ω source impedance	Signal ports and telecommunication ports (Only applicable to cable length>3 m)	A
Immunity to conducted disturbances, induced by radio-frequency fields EN 61000-4-6 (Injected Current)	0.15 MHz to 80 MHz 3V(unmodulated, r.m.s), 1kHz 80%, AM 150Ω source impedance	DC Power Ports	A
	0.15 MHz to 80 MHz 3V(unmodulated, r.m.s), 1kHz 80%, AM 150Ω source impedance	AC Power Ports	A
Power frequency magnetic field immunity EN 61000-4-8 (PFMF)	50 Hz or 60Hz, 1A/m(r.m.s)	Enclosure	A
Voltage dips, short interruptions and voltage variations immunity EN 61000-4-11 (Voltage Interruption/Dips) Voltage reduction>95% 25 periods Voltage reduction>95% 250 periods		AC Power Ports	B C C

Note.

Where the coupling network for the 10/700 μ s waveform affects the functioning of high speed data ports, the test shall be carried out using a 1,2/50 (8/20) μ s waveform and appropriate coupling network.



7.2 GENERAL PERFORMANCE CRITERIA

According to EN55024 standard, the general performance criteria as following:

Criterion A	The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. If the minimum performance level or the permissible performance loss is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criterion B	After the test, the equipment shall continue to operate as intended without operator Intervention. No degradation of performance or loss of function is allowed, after the application of the phenomenon below a performance level specified by the manufacturer, when the equipment is used as intended. The performance level may be replaced by a permissible loss of performance. During the test, degradation of performance is allowed. However, no change of operating state if stored data allowed to persist after the test. If the minimum performance level (or the permissible performance loss) is not specified by the manufacturer, then either of these may be derived from the product description and documentation, and by what the user may reasonably expect from the equipment if used as intended.
Criterion C	Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions. Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



7.3 ELECTROSTATIC DISCHARGE IMMUNITY TEST (ESD)

7.3.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-2
Discharge Impedance	330 ohm / 150 pF
Required Performance	В
Discharge Voltage	Air Discharge: ±2 kV, ±4 kV, ±8 kV (Direct)
	Contact Discharge: ±2 kV, ±4 kV (Direct/Indirect)
Polarity	Positive & Negative
Number of Discharge	Air Discharge: min. 20 times at each test point
	Contact Discharge: min. 200 times in total
Discharge Mode	Single Discharge
Discharge Period	1 second minimum

7.3.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	ESD Simulator	EM TEST	dito	305018	Jul. 19, 2019

Remark: "N/A" denotes no model name, no serial No. or no calibration specified. All calibration period of equipment list is one year.

7.3.3 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Contact discharge was applied to conductive surfaces (Direct) and coupling planes (Indirect) of the EUT.

During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.

If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second.

Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge. Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane. The four faces of the EUT will be performed with electrostatic discharge.

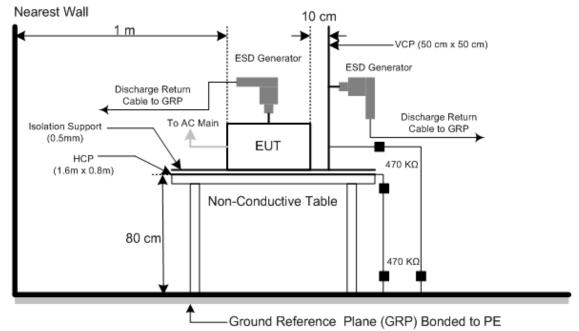
b. Air discharges at insulation surfaces of the EUT. It was at least ten single discharges with positive and negative at the same selected point.



7.3.4 DEVIATION FROM TEST STANDARD

No deviation

7.3.5 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test was installed in a representative system as described in EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.



7.3.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	48%
Test Voltage	AC 230V/50Hz	Pressure	1010hPa
Test Mode	HDMI 1 2560*1440/75Hz		

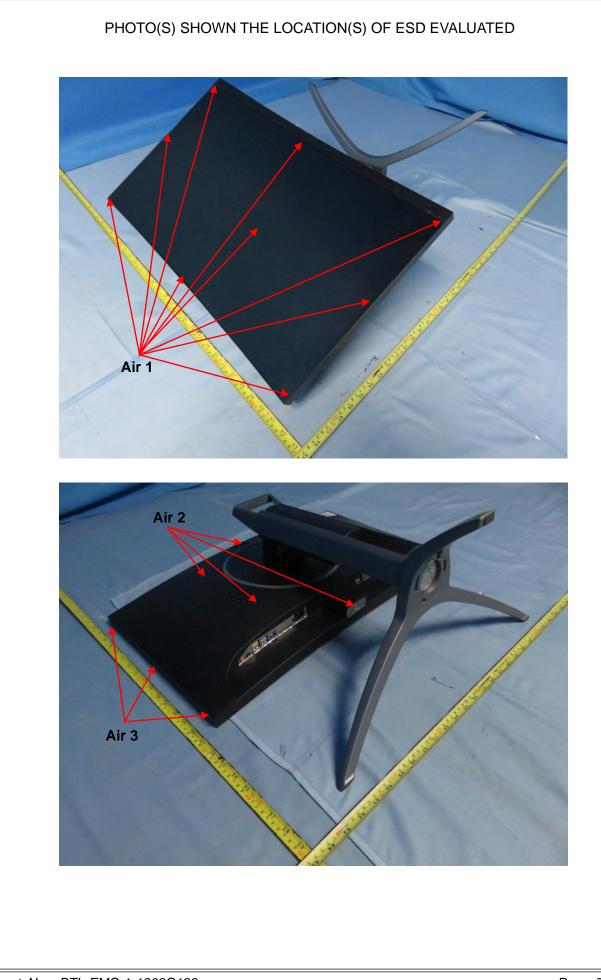
Mode		Air Discharge						Contact Discharge						
	21	٢V	4	٢V	8	kV	-	κV	2k	۲V	4	٢V	- ŀ	٢V
Location	Р	Ν	Р	Ν	Р	Ν	Р	Ν	Р	Ν	Р	Ν	Р	Ν
1	Α	А	Α	Α	В	В	-	-	Α	Α	В	В	-	-
2	Α	Α	Α	Α	Α	А	-	-	Α	Α	В	В	-	-
3	Α	А	Α	Α	Α	А	-	-	-	-	-	-	-	-
4	Α	Α	Α	Α	В	В	-	-	-	-	-	-	-	-
5	Α	Α	Α	Α	В	В	-	-	-	-	-	-	-	-
6	Α	А	Α	Α	Α	А	-	-	-	-	-	-	-	-
7	Α	Α	Α	Α	Α	Α	-	-	-	-	-	-	-	-
Criteria	B				- B			-	-					
Result	В				- B									
Judgment			PA	SS				-		PA	SS	- PASS		

Mode		HCP Contact Discharge						VCP Contact Discharge					
	21	٢V	4	kV	-	kV	21	νV	4	٢V	-	٧٧	
Location	Р	Ν	Р	Ν	Р	Ν	Р	Ν	Р	Ν	Р	Ν	
1	А	Α	Α	Α	-	-	Α	Α	Α	А	-	-	
2	А	Α	Α	Α	-	-	Α	Α	Α	Α	-	-	
3	Α	Α	Α	Α	-	-	Α	Α	Α	Α	-	-	
4	Α	Α	Α	Α	-	-	Α	Α	Α	Α	-	-	
Criteria		B			-		В					-	
Result		A				- A		4			-		
Judgment		PASS						-	PA	SS			-

- 1) P/N denotes the Positive/Negative polarity of the output voltage.
- 2) Test condition:
 - Direct/Indirect(HCP/VCP) discharges: Minimum 50 times (Positive/Negative) at eachpoint.
 - Air discharges: Minimum 20 times (Positive/Negative) at each point.
- 3) Test location(s) in which discharge (Air and contact discharge) to be applied illustrated
- by photos shown in next page(s)
- 4) The Indirect (HCP/VCP) discharges description of test point as following: 1.left side; 2.right side; 3.front side; 4.rear side.
- 5) N/A denotes test is not applicable in this test report
- 6) Criterion A: No observation of any performance degradation.
- 7) Criterion B: Some degradation of performance is observed but the equipment continues to operate as intended.
- 8) Criterion C: Loss of functionality, but self-recoverable by user, without loss of information or settings.

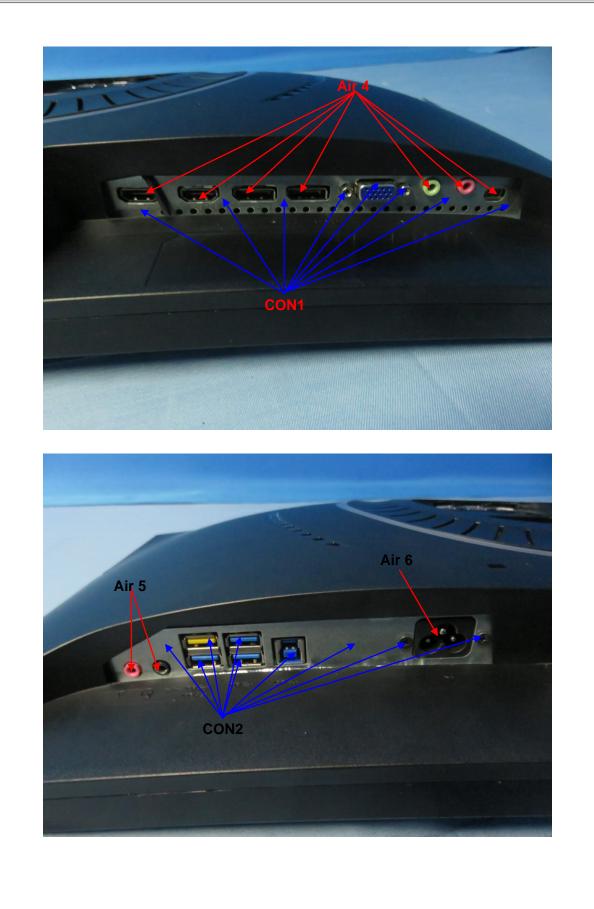






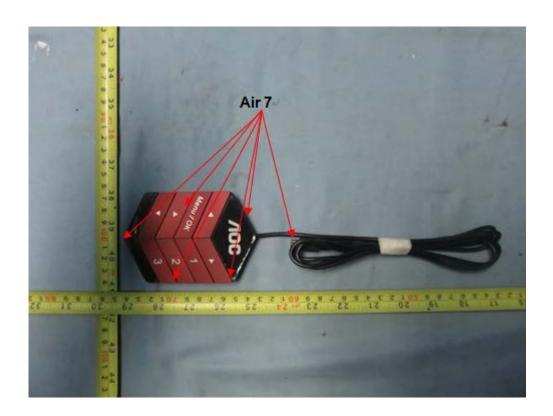














7.4 RADIATED, RADIO-FREQUENCY, ELECTROMAGNETIC FIELD IMMUNITY TEST (RS)

7.4.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-3
Required Performance	A
Frequency Range	80 MHz - 1000 MHz
Field Strength	3 V/m(unmodulated, r.m.s)
Modulation	1 kHz Sine Wave, 80%, AM Modulation
Frequency Step	1% of fundamental
Polarity of Antenna	Horizontal and Vertical
Test Distance	3 m
Antenna Height	1.55 m
Dwell Time	at least 3 seconds

7.4.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	MXG Analog Signal Generator	Agilent	N5181A	MY49060710	Aug. 11, 2019
2*	Power amplifier	MILMEGA	80RF1000-25 0	1064833	Aug. 20, 2020
3	Antenna	ETS	3142C	47662	Mar. 11, 2019
4	Measurement Software	ΤΟΥΟ	IM5/RS Ver 3.8.050	N/A	N/A

Remark: "N/A" denotes no model name, no serial No. or no calibration specified.

All calibration period of equipment list is one year.

"*" calibration period of equipment list is three year.

7.4.3 TEST PROCEDURE

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

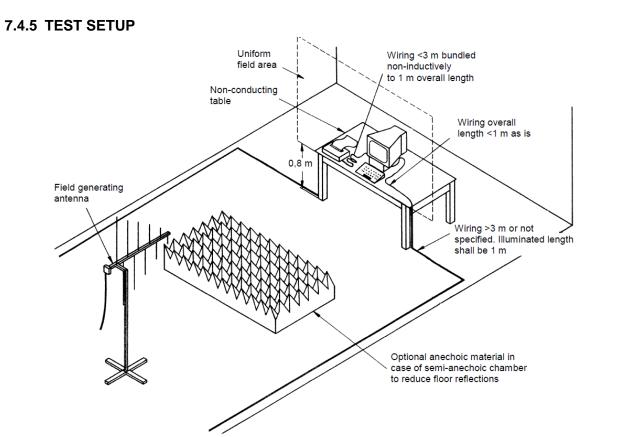
a. The field strength level was 3 V/m(unmodulated, r.m.s).

- b. The frequency range is swept from 80 MHz to 1000 MHz, with the signal 80% amplitude modulated with a 1 kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.

7.4.4 DEVIATION FROM TEST STANDARD

No deviation





Note:

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.



7.4.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	50%			
Test Voltage	AC 230V/50Hz					
Test Mode	HDMI 1 2560*1440/75Hz					

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Criterion	Result	Judgment
80 - 1000	H/V	3V/m (unmodulated, r.m.s) AM Modulated 1000Hz, 80%	0 90 180 270	A	A	PASS

- 1) P/N denotes the Positive/Negative polarity of the output voltage.
- 2) N/A denotes test is not applicable in this test report.
- 3) Criterion A: No observation of any performance degradation.
- 4) Criterion B: Some degradation of performance is observed but the equipment continues to operate as intended.
- 5) Criterion C: Loss of functionality, but self-recoverable by user, without loss of information or settings.



7.5 ELECTRICAL FAST TRANSIENT/BURST IMMUNITY TEST (EFT/BURST)

7.5.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-4
Required Performance	В
Test Voltage	Power Line: ±1 kV
Polarity	Positive & Negative
Impulse Frequency	5 kHz: except for xDSL ports.
	100 kHz: only for single lines of xDSL ports.
Impulse Wave shape	5/50 ns
Burst Duration	15 ms
Burst Period	300 ms
Test Duration	Not less than 1 min.

7.5.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Measurement Software	Teseq	Win 3000 Version 1.2.0	N/A	N/A
2	THE MODULAR SOLUTION FOR 6 KV APPLICATIONS	Teseq	NSG 3060	1423	Aug. 11, 2019

Remark: "N/A" denotes no model name, no serial No. or no calibration specified. All calibration period of equipment list is one year.

7.5.3 TEST PROCEDURE

The EUT and support equipment(s) are placed on a table that is 0.8 meter high above a metal ground plane and should be located 0.1 m+/- 0.01m high above the Ground Reference Plane (1m*1m min. and 0.65mm thick min).

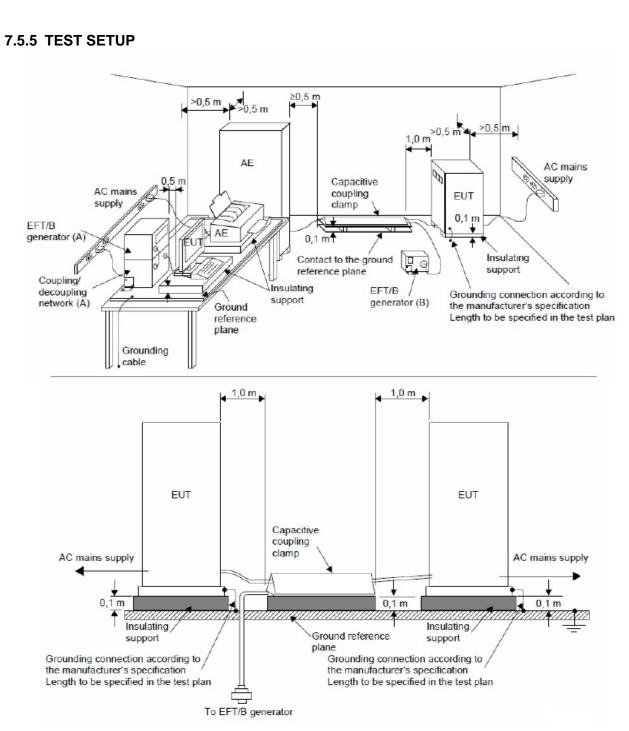
The other condition as following manner:

- a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute

7.5.4 DEVIATION FROM TEST STANDARD

No deviation





Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane and should be located 0.1 m+/- 0.01m above the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in EN 61000-4-4 and its cables were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.



7.5.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******			
Temperature	25°C	Relative Humidity	50%			
Test Voltage	AC 230V/50Hz					
Test Mode	HDMI 1 2560*1440/75Hz					

EUT Ports	Tested	Polarity	Repetition Frequency	Test Level 1kV	Criterion	Result	Judgment
	Line (L)	+	5 kHz	В	В	В	PASS
	Line (L)	-	5 kHz	В	D	D	FA33
	Noutrol (NI)	+	5 kHz	В	В	Р	DASS
	Neutral (N)	-	5 kHz	В	D	В	PASS
	Cround (DE)	+	5 kHz	В	E.	В	DASS
	Ground (PE)	-	5 kHz	5 kHz B B		В	PASS
AC Power Port	L+N	+	5 kHz	В	В	В	PASS
AC FOWEI FOIL	L+IN	-	5 kHz	В	D	В	FA33
	L+PE	+	5 kHz	В	В	В	PASS
		-	5 kHz	В	D	D	FA33
	N+PE	+	5 kHz	В	В	В	DASS
		-	5 kHz	В	D	D	PASS
		+	5 kHz	В	В	Р	PASS
	L+N+PE	-	5 kHz	В	D	В	LY22

- 1) P/N denotes the Positive/Negative polarity of the output voltage.
- 2) N/A denotes test is not applicable in this test report
- 3) Criterion A: No observation of any performance degradation.
- 4) Criterion B: Some degradation of performance is observed but the equipment continues to operate as intended.
- 5) Criterion C: Loss of functionality, but self-recoverable by user, without loss of information or settings.



7.6 SURGE IMMUNITY TEST

7.6.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-5
Required Performance	В
Wave-Shape	Combination Wave for power lines
	1.2/50 us Open Circuit Voltage
	8 /20 us Short Circuit Current
Test Voltage	Power Line: ±0.5 kV, ±1 kV, ±2 kV
Surge Input/Output	L-N, L-PE, N-PE
Generator Source	2 ohm between line-to-line of a.c./d.c. lines
Impedance	12 ohm between line-to-ground of a.c./d.c. lines
Polarity	Positive/Negative
Phase Angle:	AC Port: 0°/90°/180°/270°
Pulse Repetition Rate	1 time / min. (maximum)
Number of Tests	5 positive and 5 negative at selected points

7.6.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Measurement Software	Teseq	Win 3000 Version 1.2.0	N/A	N/A
2	THE MODULAR SOLUTION FOR 6 KV APPLICATIONS	Teseq	NSG 3060	1423	Aug. 11, 2019

Remark: "N/A" denotes no model name, no serial No. or no calibration specified. All calibration period of equipment list is one year.

7.6.3 TEST PROCEDURE

a. For EUT power supply:

The surge is to be applied to the EUT power supply terminals via the capacitive coupling network. Decoupling networks are required in order to avoid possible adverse effects on equipment not under test that may be powered by the same lines, and to provide sufficient decoupling impedance to the surge wave. The power cord between the EUT and the coupling/decoupling networks shall be 2meters in length (or shorter).

- b. For test applied to unshielded unsymmetrically operated interconnection lines of EUT : The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- c. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT :

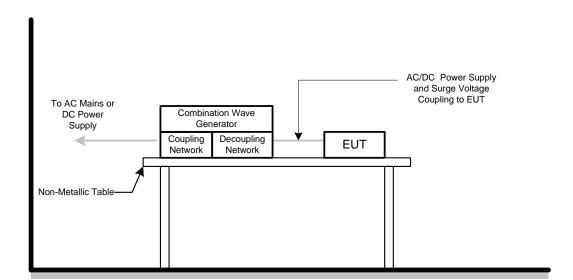
The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).



7.6.4 DEVIATION FROM TEST STANDARD

No deviation

7.6.5 TEST SETUP





7.6.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	50%
Test Voltage	AC 230V/50Hz		
Test Mode	HDMI 1 2560*1440/75Hz		

Wave Form EUT Ports Tested		1.2/50(8/20)Tr/Thµs								
		Polority	Dhaco	Voltage			Criterion	Result	Judgment	
		Polarity P	Fliase	0.5kV	1kV	kV	kV			_
		+/-	0°	А	А	-	-	В	А	PASS
AC	L - N	+/-	90°	А	Α	-	-			
AC	(2 ohm)	+/-	180°	А	А	-	-			
		+/-	270°	А	А	-	-			

Wave Form EUT Ports Tested			1.2/50(8/20)Tr/Thµs							
		Polarity	Dhaca		Voltage			Criterion	Result	Judgment
EUTP	Toris Testeu	Polanty	Fliase	0.5kV	1kV	2kV	kV			
	+/-	0°	А	А	Α	-				
	L – PE	+/-	90°	А	А	Α	-	В	A	PASS
	(12 ohm)	+/-	180°	А	А	Α	-			
AC		+/-	270°	А	А	Α	-			
AC		+/-	0°	А	А	Α	-	В		PASS
	N – PE (12 ohm)	+/-	90°	А	А	Α	-		۸	
		+/-	180°	А	Α	А	-		A	
		+/-	270°	А	А	Α	-			

- 1) Polarity and Numbers of Impulses: 5 Pst / Ngt at each tested mode
- 2) N/A denotes test is not applicable in this Test Report
- 3) Criterion A: No observation of any performance degradation.
- 4) Criterion B: Some degradation of performance is observed but the equipment continues to operate as intended.
- 5) Criterion C: Loss of functionality, but self-recoverable by user, without loss of information or settings.



7.7 IMMUNITY TO CONDUCTED DISTURBANCES, INDUCED BY RADIO-FREQUENCY FIELDS TEST (CS)

7.7.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-6
Required Performance	A
Frequency Range	0.15 MHz - 80 MHz
Field Strength	3 V (unmodulated, r.m.s.)
Modulation	1 kHz Sine Wave, 80%, AM Modulation
Frequency Step	1% of fundamental
Dwell Time	at least 3 seconds

7.7.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Power CDN	FCC	FCC-801-M2/M 3-16A	100270	Mar. 11, 2019
2	TEST SYSTEM FOR CONDUCTED AND RADIATED IMMUNITY	TESEQ	NSG 4070B	37513	Aug. 11, 2019
3	Measurement Software	Farad	EZ-CS(V2.0.1.2)	N/A	N/A

Remark: "N/A" denotes no model name, no serial No. or no calibration specified. All calibration period of equipment list is one year.

7.7.3 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

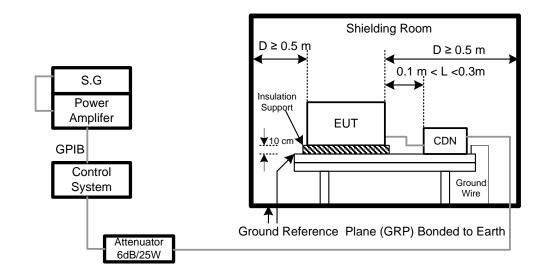
- a. The field strength level was 3 V (unmodulated, r.m.s.)
- b. The frequency range is swept from 150 kHz to 80 MHz, with the signal 80% amplitude modulated with a 1 kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.

7.7.4 DEVIATION FROM TEST STANDARD

No deviation



7.7.5 TEST SETUP



NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.

7.7.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	50%
Test Voltage	AC 230V/50Hz		
Test Mode	HDMI 1 2560*1440/75Hz		

Test Ports (Mode)	Freq.Range (MHz)	Field Strength	Criteria	Results	Judgment
Input/ Output AC.PowerPort	0.1580		А	A	PASS
Input/ Output DC. PowerPort	0.15 80	3V(unmodulat ed, r.m.s) AM Modulated 1000Hz, 80%	А	N/A	N/A
Signal Line (N/A)	0.15 80	1000112,0070	А	N/A	N/A

- 1). N/A denotes test is not applicable in this test report.
- 2) Criterion A: No observation of any performance degradation.
- 3) Criterion B: Some degradation of performance is observed but the equipment continues to operate as intended.
- 4) Criterion C: Loss of functionality, but self-recoverable by user, without loss of information or settings.



7.8 POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST (PFMF)

7.8.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-8
Required Performance	A
Frequency Range	50/60 Hz
Field Strength	1 A/m
Observation Time	1 minute
Inductance Coil	Rectangular type, 1mx1m

7.8.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Magnetic Field test Generator	FCC	F-1000-4-8- G-125A	04032	Mar. 24, 2019	
2	Magnetic Field immunity loop	Thermo KeyTek	F-1000-4-8/ 9/10-L-1M	04024	Mar. 24, 2019	

Remark: "N/A" denotes no model name, no serial No. or no calibration specified.

All calibration period of equipment list is one year.

7.8.3 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

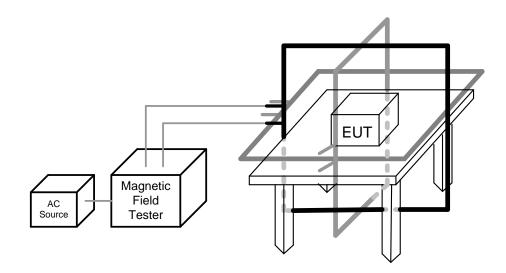
- a. The equipment cabinets shall be connected to the safety earth directly on the GRP via the earth terminal of the EUT.
- b. The cables supplied or recommended by the equipment manufacturer shall be used. 1 meter of all cables used shall be exposed to the magnetic field.

7.8.4 DEVIATION FROM TEST STANDARD

No deviation



7.8.5 TEST SETUP



Note:

TABLE-TOP EQUIPMENT

The equipment shall be subjected to the test magnetic field by using the induction coil of standard dimension (1 m x 1 m). The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

FLOOR-STANDING EQUIPMENT

The equipment shall be subjected to the test magnetic field by using induction coils of suitable dimensions. The test shall be repeated by moving and shifting the induction coils, in order to test the whole volume of the EUT for each orthogonal direction. The test shall be repeated with the coil shifted to different positions along the side of the EUT, in steps corresponding to 50 percent of the shortest side of the coil. The induction coil shall then be rotated by 90 degrees in order to expose the EUT to the test field with different orientations.

7.8.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******
Temperature	25°C	Relative Humidity	50%
Test Voltage	AC 230V/50Hz		
Test Mode	HDMI 1 2560*1440/75Hz		

50Hz

Test Mode	Test Level	Antenna aspect	Duration (s)	Criteria	Results	Judgment
Enclosure	1 A/m	Х	60	А	А	PASS
Enclosure	1 A/m	Y	60	А	A	PASS
Enclosure	1 A/m	Z	60	А	A	PASS

60Hz

Test Mode	Test Level	Antenna aspect	Duration (s)	Criteria	Results	Judgment
Enclosure	1 A/m	Х	60	А	А	PASS
Enclosure	1 A/m	Y	60	А	A	PASS
Enclosure	1 A/m	Z	60	A	A	PASS

- 1). N/A denotes test is not applicable in this test report.
- 2) Criterion A: No observation of any performance degradation.
- 3) Criterion B: Some degradation of performance is observed but the equipment continues to operate as intended.
- 4) Criterion C: Loss of functionality, but self-recoverable by user, without loss of information or settings.



7.9 VOLTAGE DIPS, SHORT INTERRUPTIONS AND VOLTAGE VARIATIONS IMMUNITY TEST

7.9.1 TEST SPECIFICATION

Basic Standard	EN 61000-4-11	
Required Performance	B (For >95% Voltage Dips)	
	C (For 30% Voltage Dips)	
	C (For >95% Voltage Interruptions)	
Test Duration Time	Minimum three test events in sequence	
Interval between Event	Minimum ten seconds	
Phase Angle	0°/180°	
Test Cycle	3 times	

7.9.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	THE MODULAR SOLUTION FOR 6 KV APPLICATIONS	Teseq	NSG 3060	1423	Aug. 11, 2019
2	Measurement Software	Teseq	Win 3000 Version 1.2.0	N/A	N/A

Remark: "N/A" denotes no model name, no serial No. or no calibration specified. All calibration period of equipment list is one year.

7.9.3 TEST PROCEDURE

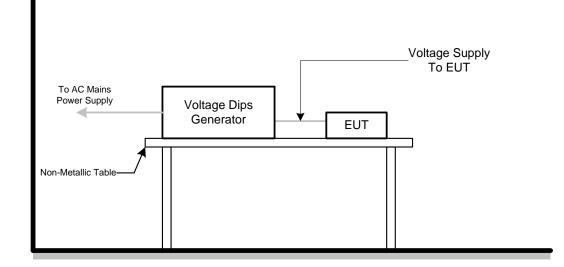
The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

7.9.4 DEVIATION FROM TEST STANDARD

No deviation



7.9.5 TEST SETUP





7.9.6 TEST RESULTS

EUT	LCD Monitor	Model Name	**273QCX******		
Temperature	25°C	Relative Humidity	50%		
Test Voltage	AC 100V/50Hz, AC 230V/50Hz, AC 240V/50Hz				
Test Mode	HDMI 1 2560*1440/75Hz				

AC 100V/50Hz					
Voltage Reduction	Periods	Criteria	Results	Judgment	
Voltage dip >95%	0.5	В	A	PASS	
Voltage dip 30%	25	С	А	PASS	
Interruption>95%	250	С	С	PASS	

AC 230V/50Hz					
Voltage Reduction	Periods	Criteria	Results	Judgment	
Voltage dip >95%	0.5	В	А	PASS	
Voltage dip 30%	25	С	А	PASS	
Interruption>95%	250	С	С	PASS	

AC 240V/50Hz					
Voltage Reduction	Periods	Criteria	Results	Judgment	
Voltage dip >95%	0.5	В	А	PASS	
Voltage dip 30%	25	С	A	PASS	
Interruption>95%	250	С	С	PASS	

- 1). N/A denotes test is not applicable in this test report.
- 2) Criterion A: No observation of any performance degradation.
- 3) Criterion B: Some degradation of performance is observed but the equipment continues to operate as intended.
- 4) Criterion C: Loss of functionality, but self-recoverable by user, without loss of information or settings.

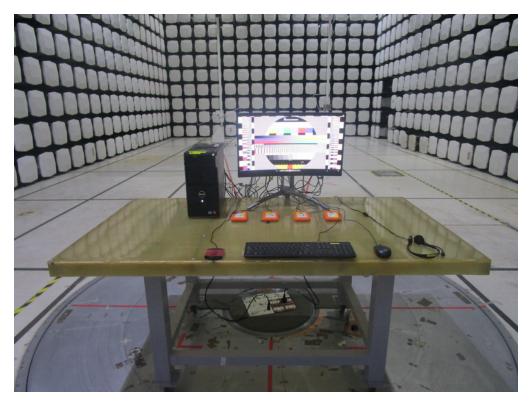


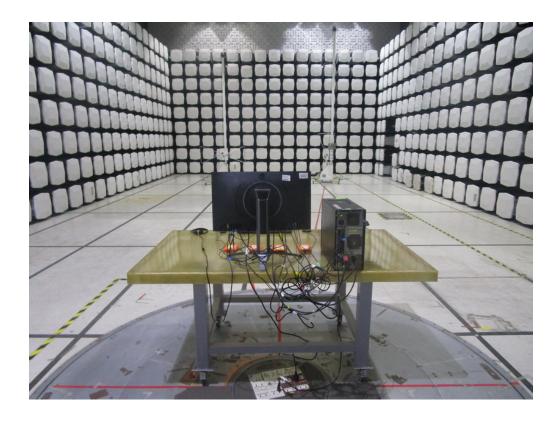


8. EUT TEST PHOTO

EN 55032:2012+AC:2013 & 2015

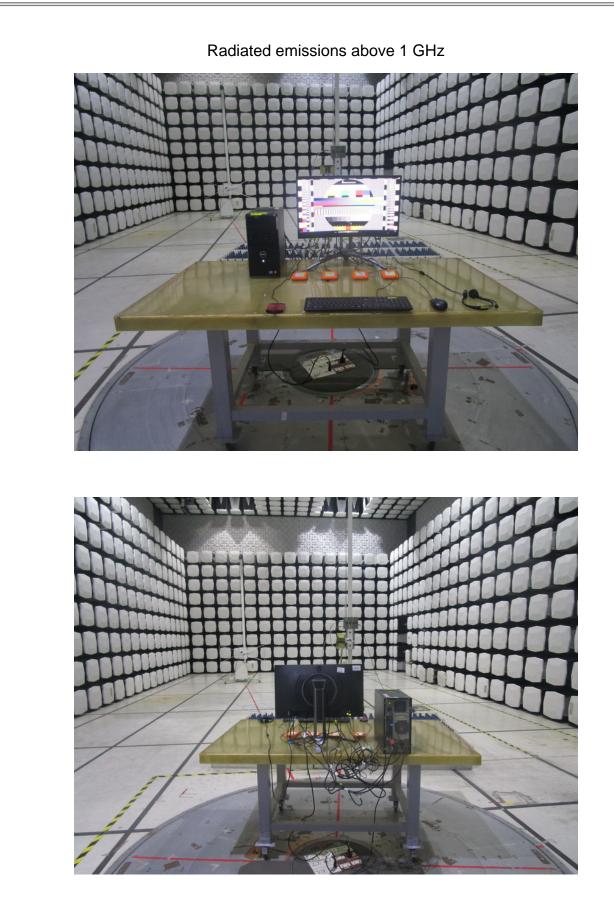
Radiated emissions up to 1 GHz





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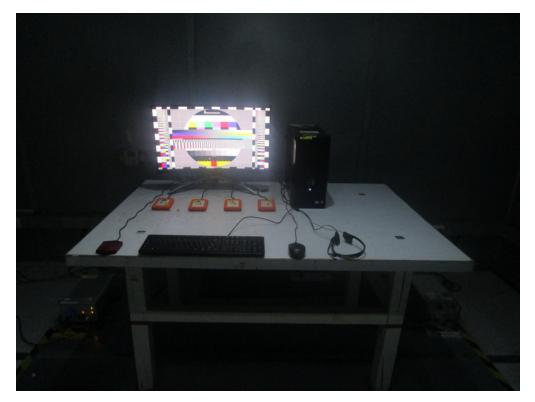




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Conducted emissions AC mains power port

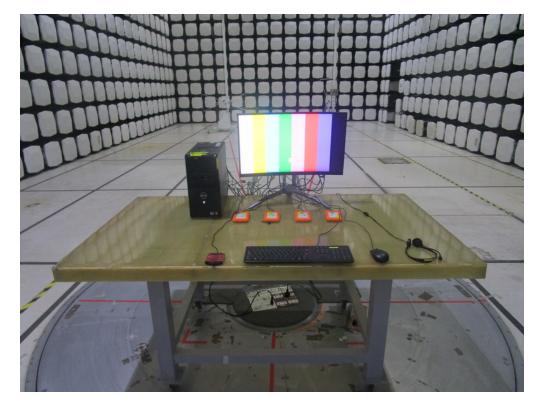


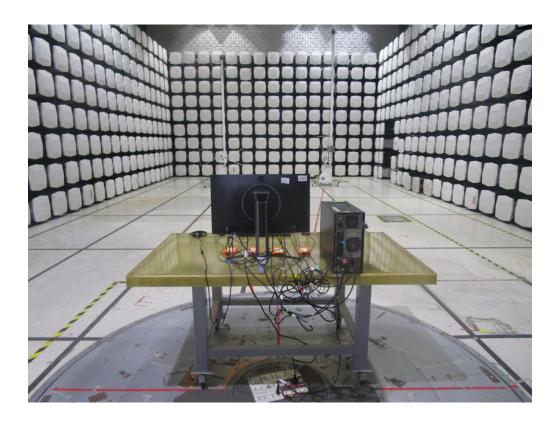




EN 55032:2015+AC:2016

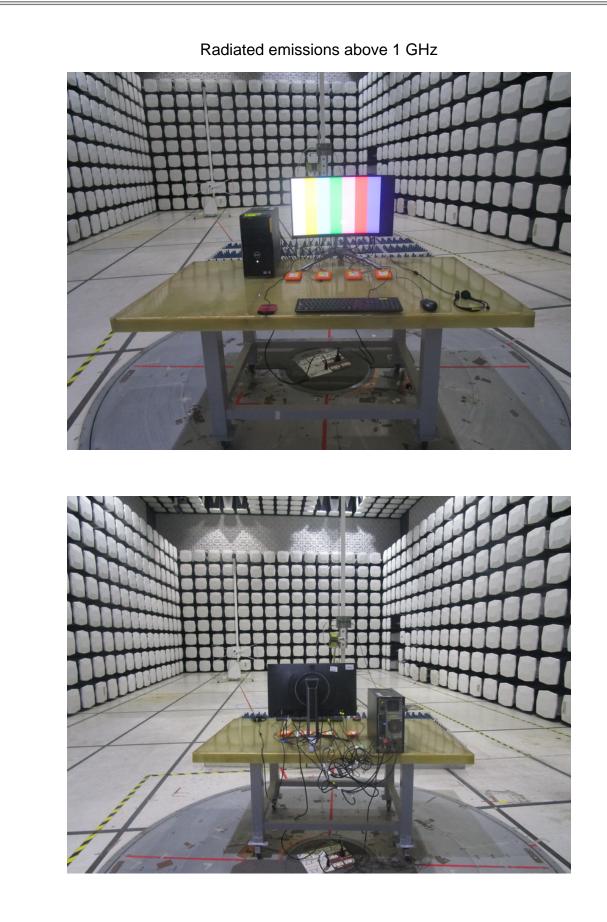
Radiated emissions up to 1 GHz





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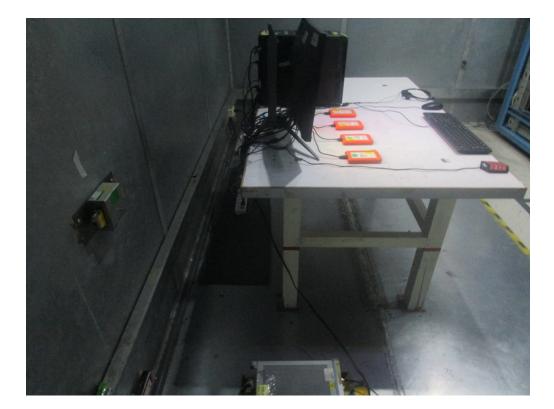






Conducted emissions AC mains power port







Harmonic current emissions



Voltage changes, voltage fluctuations and flicker

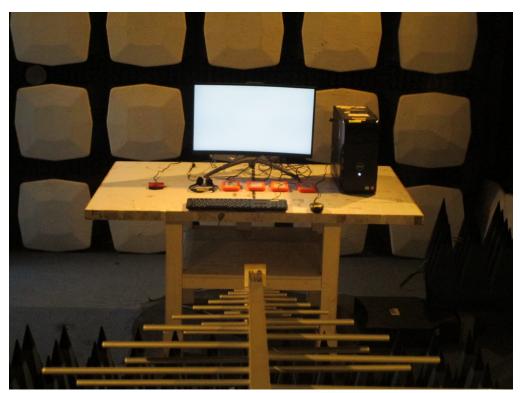




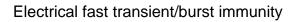
Electrostatic discharge immunity



Radiated, radio-frequency, electromagnetic field immunity

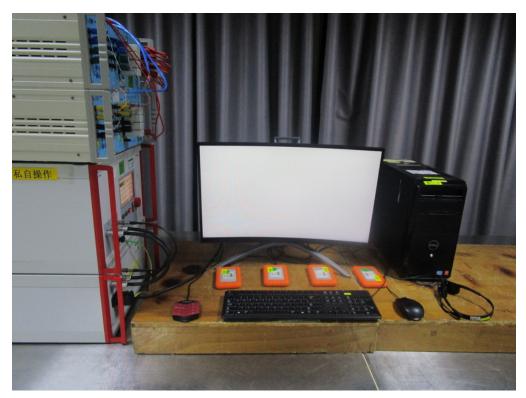








Surge immunity





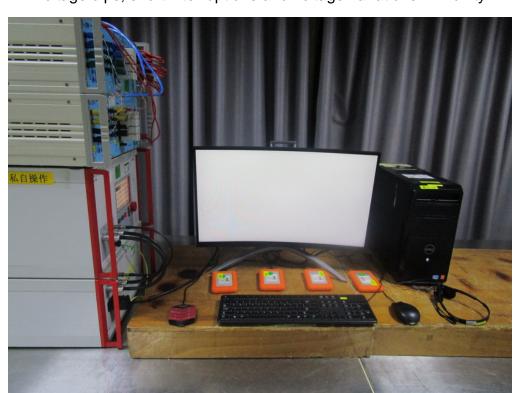


Immunity to conducted disturbances, induced by radio-frequency fields

Power frequency magnetic field immunity







Voltage dips, short interruptions and voltage variations immunity

End of Test Report