



# EMC TEST REPORT

Authorized under Declaration of Conformity

According to

EN 55032: 2012+AC 2013 (Class B)	EN 55024 : 2010
EN 61000-3-2 : 2014	IEC 61000-4-2 : 2008
EN 61000-3-3 : 2013	IEC 61000-4-3 : 2006+A1:2007+A2:2010
CISPR 32 : 2012	IEC 61000-4-4 : 2012
AS/NZS CISPR 32 : 2013	IEC 61000-4-5 : 2014
	IEC 61000-4-6 : 2013
	IEC 61000-4-8 : 2009
	IEC 61000-4-11 : 2004

Applicant	: TPV Electronics (Fujian) Co., Ltd.
Address	: Rongqiao Economic and Technological Development Zone, Fuqing City, Fujian Province, P.R. China
Equipment	: LCD Monitor
Model No.	: 315LM00026; **322**** The "*" could be any alphanumeric character including blank for marketing differentiation.

## I HEREBY CERTIFY THAT :

The sample was received on Jan. 16, 2017 and the testing was carried out on Jan. 24, 2017 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.



# EMC TEST REPORT

Issued by:

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The test record, data evaluation & Equipment Under Test configurations represented herein are true and accurate accounts of the measurements of the samples EMC characteristics under the conditions specified in this report.

The above equipment was tested by CerpPASS Technology Corp. for compliance with the requirements of technical standards specified above under the EMC Directive. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties

Approved by:

Miro Chueh  
EMC/RF B.U. Manager

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory

<b>NVLAP LAB Code:</b>	<b>200954-0</b>
<b>TAF LAB Code:</b>	<b>1439</b>

CerpPASS Technology(SuZhou) Co., Ltd.

<b>NVLAP LAB Code:</b>	<b>200814-0</b>
<b>CNAS LAB Code:</b>	<b>L5515</b>



## Contents

<b>1. Summary of Test Procedure and Test Results</b>	<b>6</b>
<b>2. Immunity Testing Performance Criteria Definition</b>	<b>7</b>
<b>3. Test Configuration of Equipment under Test</b>	<b>8</b>
3.1. Feature of Equipment under Test	8
3.2. Test Mode and Test Manner	9
3.3. Description of Support Unit	11
3.4. General Information of Test	12
3.5. Measurement Uncertainty	13
<b>4. Test of Conducted Emission</b>	<b>15</b>
4.1. Test Limit	15
4.2. Test Procedures	18
4.3. Typical Test Setup	18
4.4. Measurement Equipment	19
4.5. Test Result and Data	20
4.6. Test Photographs	40
<b>5. Test of Radiated Emission</b>	<b>41</b>
5.1. Test Limit	41
5.2. Test Procedures	44
5.3. Typical Test Setup	44
5.4. Measurement Equipment	45
5.5. Test Result and Data (30MHz ~ 1000MHz)	46
5.6. Test Result and Data (1000MHz ~ 6000MHz)	66
5.7. Test Photographs (30MHz ~ 1000MHz)	86
5.8. Test Photographs (1000MHz ~ 6000MHz)	87
<b>6. Harmonics Test</b>	<b>88</b>
6.1. Limits of Harmonics Current Measurement	88
6.2. Measurement equipment	89
6.3. Test Result and Data	90
6.4. Test Photographs	92
<b>7. Voltage Fluctuations Test</b>	<b>93</b>
7.1. Test Procedure	93
7.2. Measurement equipment	93
7.3. Test Result and Data	94
7.4. Test Photographs	96
<b>8. Electrostatic Discharge Immunity Test</b>	<b>97</b>
8.1. Test Procedure	97
8.2. Test Setup for Tests Performed in Laboratory	98
8.3. Test Severity Levels	99
8.4. Measurement equipment	99
8.5. Test Result and Data	100
8.6. Test Photographs	101



- 9. Radio Frequency electromagnetic field immunity test..... 102**
  - 9.1. Test Procedure ..... 102
  - 9.2. Test Severity Levels ..... 102
  - 9.3. TEST SETUP ..... 103
  - 9.4. Measurement equipment ..... 104
  - 9.5. Test Result and Data ..... 105
  - 9.6. Test Photographs ..... 106
- 10. Electrical Fast Transient/ Burst Immunity Test ..... 107**
  - 10.1. Test Procedure ..... 107
  - 10.2. Test Severity Levels ..... 107
  - 10.3. TEST SETUP ..... 108
  - 10.4. Measurement equipment ..... 109
  - 10.5. Test Result and Data ..... 110
  - 10.6. Test Photographs ..... 111
- 11. Surge Immunity Test ..... 112**
  - 11.1. Test Procedure ..... 112
  - 11.2. Test Severity Level ..... 112
  - 11.3. TEST SETUP ..... 113
  - 11.4. Measurement equipment ..... 113
  - 11.5. Test Result and Data ..... 114
  - 11.6. Test Photographs ..... 115
- 12. Conduction Disturbances induced by Radio-Frequency Fields ..... 116**
  - 12.1. Test Procedure ..... 116
  - 12.2. Test Severity Levels ..... 116
  - 12.3. TEST SETUP ..... 117
  - 12.4. Measurement equipment ..... 118
  - 12.5. Test Result and Data ..... 119
  - 12.6. Test Photographs ..... 120
- 13. Power Frequency Magnetic Field Immunity Tests ..... 121**
  - 13.1. Test Setup ..... 121
  - 13.2. Test Severity Levels ..... 121
  - 13.3. Measurement equipment ..... 121
  - 13.4. Test Result and Data ..... 122
  - 13.5. Test Photographs ..... 123
- 14. Voltage Dips and Voltage Interruptions Immunity Test Setup ..... 124**
  - 14.1. Test Conditions ..... 124
  - 14.2. TEST SETUP ..... 124
  - 14.3. Measurement equipment ..... 124
  - 14.4. Test Result and Data ..... 125
  - 14.5. Test Photographs ..... 126
- 15. Photographs of EUT ..... 127**



### History of this test report

ORIGINAL.

Additional attachment as following record:

Report No	Version	Date	Description
SECE1701073	Rev 01	Jan 25, 2017	Initial Issue



## 1. Summary of Test Procedure and Test Results

EMISSION [EN55032: 2012+AC 2013]			
Standard	Item	Result	Remarks
EN55032: 2012+AC 2013 AS/NZS CISPR 32 : 2013 CISPR 32 : 2012	Conducted (Power Port)	PASS	Meet Class B Limit Minimum passing margin(AV) is -16.14 dB at 0.3820 MHz
	Conducted (Telecom port)	N/A	N/A
	Radiated	PASS	Meets Class B Limit Minimum passing margin(QP) is -4.03 dB at 212.0400 MHz
EN 61000-3-2: 2014	Harmonic current emissions	PASS	Meet Class D Limit
EN61000-3-3:2013	Voltage fluctuations & flicker	PASS	Meets the requirements

IMMUNITY [EN 55024:2010]			
Standard	Item	Result	Remarks
IEC 61000-4-2: 2008	ESD	PASS	Meets the requirements of Performance Criterion A
IEC 61000-4-3: 2006+A1:2007+A2:2010	RS	PASS	Meets the requirements of Performance Criterion A
IEC 61000-4-4: 2012	EFT	PASS	Meets the requirements of Performance Criterion A
IEC 61000-4-5:2014	Surge	PASS	Meets the requirements of Performance Criterion A
IEC 61000-4-6:2013	CS	PASS	Meets the requirements of Performance Criterion A
IEC 61000-4-8:2009	PFMF	PASS	Meets the requirements of Performance Criterion A
IEC 61000-4-11:2004	Voltage dips & voltage variations	PASS	Meets the requirements of Voltage Dips: 1) >95% reduction Performance Criterion B 2) 30% reduction Performance Criterion B Voltage Interruptions: 1) >95% reduction Performance Criterion C



## 2. Immunity Testing Performance Criteria Definition

<b>Criteria A:</b>	The apparatus shell continues 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 apparatus is used as intended. The performance level may be replaced by a permissible loss of performance. If the manufacturer does not specify the minimum performance level or the permissible performance loss, 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.
<b>Criteria B:</b>	After test, the apparatus shell continues 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 apparatus is used as intended. The performance level may be replaced by a permissible loss of performance.  During the test, degradation of performance is however allowed. However, no change of operating state if stored data is allowed to persist after the test. If the manufacturer does not specify the minimum performance level or the permissible performance loss, 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.
<b>Criteria C:</b>	Temporary loss of function is allowed, provided the functions is self-recoverable or can be restored by the operation of controls by the user in accordance with the manufacturer instructions.  Functions, and/or information stored in non-volatile memory, or protected by a battery backup, shall not be lost.



### 3. Test Configuration of Equipment under Test

#### 3.1. Feature of Equipment under Test

<b>Product Name:</b>	LCD Monitor	
<b>Model Name:</b>	315LM00026; **322**** The "*" could be any alphanumeric character including blank for marketing differentiation.	
<b>Housing material:</b>	Plastic case	
<b>EUT Highest Frequency:</b>	HDMI 296MHz, DP 592MHz	
<b>EUT Power Rating:</b>	Input: 100-240V, 50-60Hz 3Pin Power Port	
<b>AC Power Cord Type:</b>	Non-shielded, 1.2m&1.5m&1.8m	
<b>Adapter</b>	Model:	ADPC2090
	Input:	100-240V, 1.3A, 50-60Hz
	Output:	20V, 4.5 A

Note: Please refer to user manual.

#### I/O PORT:

I/O PORT TYPE	Quantity
A. HDMI Port	2
B. Display Port	2
C. VGA Port	1
D. Audio Port	4
E. USB Port	4
F. AC Power Port	1





### 3.2. Test Mode and Test Manner

#### Test Manner

- a During testing, the interface cables and equipment positions were varied according Europe Standard.
- b Running "H" pattern and Colour bars.
- c During the test, connect the PC, USB keyboard, USB Mouse, Earphone,HDD and EUT, make the EUT at the test mode.
- d Adjust the EUT, then test.

#### The pre-test modes

Test Mode 1	Full system (HDMI1 mode 2560*1440@75Hz) (110V/60Hz)
Test Mode 2	Full system (HDMI1 mode 1280*1024@75Hz) (110V/60Hz)
Test Mode 3	Full system (HDMI1 mode 640*480@60Hz) (110V/60Hz)
Test Mode 4	Full system (HDMI2 mode 2560*1440@75Hz) (110V/60Hz)
Test Mode 5	Full system (HDMI2 mode 1280*1024@75Hz) (110V/60Hz)
Test Mode 6	Full system (HDMI2 mode 640*480@60Hz) (110V/60Hz)
Test Mode 7	Full system (VGA mode 1920*1080@60Hz) (110V/60Hz)
Test Mode 8	Full system (VGA 1280*1024@75Hz) (110V/60Hz)
Test Mode 9	Full system (VGA 640*480@60Hz) (110V/60Hz)
Test Mode 10	Full system (DP1 mode 2560*1440@144Hz) (110V/60Hz)
Test Mode 11	Full system (DP1 mode 1280*1024@75Hz) (110V/60Hz)
Test Mode 12	Full system (DP1 mode 640*480@60Hz) (110V/60Hz)
Test Mode 13	Full system (DP2 mode 2560*1440@144Hz) (110V/60Hz)
Test Mode 14	Full system (DP 2mode 1280*1024@75Hz) (110V/60Hz)
Test Mode 15	Full system (DP2 mode 640*480@60Hz) (110V/60Hz)
Test Mode 16	Full system (HDMI1 mode 2560*1440@75Hz) (230V/50Hz)
Test Mode 17	Full system (HDMI1 mode 1280*1024@75Hz) (230V/50Hz)
Test Mode 18	Full system (HDMI1 mode 640*480@60Hz) (230V/50Hz)
Test Mode 19	Full system (HDMI2 mode 2560*1440@75Hz) (230V/50Hz)
Test Mode 20	Full system (HDMI2 mode 1280*1024@75Hz) (230V/50Hz)
Test Mode 21	Full system (HDMI2 mode 640*480@60Hz) (230V/50Hz)
Test Mode 22	Full system (VGA mode 1920*1080@60Hz) (230V/50Hz)
Test Mode 23	Full system (VGA 1280*1024@75Hz) (230V/50Hz)
Test Mode 24	Full system (VGA 640*480@60Hz) (230V/50Hz)
Test Mode 25	Full system (DP1 mode 2560*1440@144Hz) (230V/50Hz)
Test Mode 26	Full system (DP1 mode 1280*1024@75Hz) (230V/50Hz)
Test Mode 27	Full system (DP1 mode 640*480@60Hz) (230V/50Hz)



- Test Mode 28 Full system (DP2 mode 2560\*1440@144Hz) (230V/50Hz)
- Test Mode 29 Full system (DP 2mode 1280\*1024@75Hz) (230V/50Hz)
- Test Mode 30 Full system (DP2 mode 640\*480@60Hz) (230V/50Hz)
- Test Mode 31 Full system (1080P from DVD mode) (230V/50Hz)

“Test mode 1,4,7,10,13,16,19,22,25,28” were reported as final data.

**The pre-test modes for Harmonic/Flicker/EMS**

- Test Mode 1 Full system (HDMI1 mode 2560\*1440@75Hz)
- Test Mode 2 Full system (HDMI1 mode 1280\*1024@75Hz)
- Test Mode 3 Full system (HDMI1 mode 640\*480@60Hz)
- Test Mode 4 Full system (HDMI2 mode 2560\*1440@75Hz)
- Test Mode 5 Full system (HDMI2 mode 1280\*1024@75Hz)
- Test Mode 6 Full system (HDMI2 mode 640\*480@60Hz)
- Test Mode 7 Full system (VGA mode 1920\*1080@60Hz)
- Test Mode 8 Full system (VGA 1280\*1024@75Hz)
- Test Mode 9 Full system (VGA 640\*480@60Hz)
- Test Mode 10 Full system (DP1 mode 2560\*1440@144Hz)
- Test Mode 11 Full system (DP1 mode 1280\*1024@75Hz)
- Test Mode 12 Full system (DP1 mode 640\*480@60Hz)
- Test Mode 13 Full system (DP2 mode 2560\*1440@144Hz)
- Test Mode 14 Full system (DP 2mode 1280\*1024@75Hz)
- Test Mode 15 Full system (DP2 mode 640\*480@60Hz)
- Test Mode 16 Full system (1080P from DVD mode)

“Test mode 1,4,7,10,13” were reported as final data.



### 3.3. Description of Support Unit

No.	Device	Manufacturer	Model No.	Description
1	PC1	HP	HP Compaq Elite 8200 MTPC	Non-Shielded ,1.8m (R33001)
2	PC2	ASUS	BM1AD	N/A
3	USB Keyboard	DELL	SK-8115	T3A002
4	USB Mouse	DELL	G0K02XYK	R41108
5	Earphone	Salar	V-18	N/A
6	Earphone	Salar	V-18	N/A
7	HDD	WD	WDBPCK5000ABK-01	N/A
8	HDD	WD	WDBPCK5000ABK-02	N/A

No.	Cable	Quantity	Description
A	USB Cable	1	Shielded, 1.5m,
B	HDMI Cable	1	Shielded,1.2m&1.5m&1.8m, with two ferrite core bonded
C	Display Cable	1	Shielded,1.2m&1.5m&1.8m
D	VGA Cable	1	Shielded,1.2m&1.5m&1.8m, with two ferrite core bonded
E	HDMI Cable	1	Shielded,1.2m&1.5m&1.8m
F	Display Cable	1	Shielded,1.2m&1.5m&1.8m
G	USB Cable	1	No-Shielded, 1.0m,
H	Audio Cable	1	No-Shielded, 1.8m,
I	Audio Cable	1	No-Shielded, 1.8m,
J	USB Cable	1	Shielded, 1.8m,
K	USB Cable	1	Shielded, 1.5m,
L	USB Cable	1	No-Shielded, 0.6m,
M	USB Cable	1	No-Shielded, 0.6m,

**3.4. General Information of Test**

<input type="checkbox"/>	Test Site	<b>Cerpass Technology Corporation Test Laboratory</b> Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582
	FCC	TW1079, TW1061,390316, 228391, 641184
	IC	4934B-1, 4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
<input checked="" type="checkbox"/>	Test Site	<b>Cerpass Technology (Suzhou) Co.,Ltd</b> Address: No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China Tel: +86-512-6917-5888 Fax: +86-512-6917-5666
	FCC	331395
	IC	7290A-1, 7290A-2
	VCCI	T-1945 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test G-227 for radiated disturbance above 1GHz
Frequency Range Investigated:		Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 6000MHz
Test Distance :		The test distance of radiated emission below 1GHz from antenna to EUT is 10 M. The test distance of radiated emission above 1GHz from antenna to EUT is 3 M.



### 3.5. 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:

Measurement	Frequency	Uncertainty
Conducted emissions(LINE)	0.09MHz-30MHz	+/- 0.7738 dB
Conducted emissions(NEUTRAL)	0.09MHz-30MHz	+/- 0.7886 dB

Measurement	Polarity	Frequency	Uncertainty
Radiated emissions (below 1GHz)	H	30MHz ~ 200MHz	+/- 3.8909dB
		200MHz ~1000MHz	+/- 3.6555dB
	V	30MHz ~ 200MHz	+/- 3.8948dB
		200MHz ~1000MHz	+/- 3.6538dB
Radiated emissions (above 1GHz)	H	1000MHz ~18000MHz	+/- 3.8948 dB
		18000MHz ~40000MHz	+/-3.8844dB
	V	1000MHz ~18000MHz	+/- 3.8906dB
		18000MHz ~40000MHz	+/- 3.8744dB

Measurement	Uncertainty
ESD—Rise time tr	10%
ESD—Peak current Ip	6%
ESD—Current at 30 ns	6%
ESD—Current at 60 ns	6%
ESD- Charging voltage	1%
RS above 1GHz	±2.37dB
RS under 1GHz	±3.83dB
EFT—Rise time tr	4%
EFT—Peak current Ip	4%
EFT—Current	4%
Surge—Rise time tr	4%



Surge—Peak current $I_p$	4%
Surge—Current	4%
CS-CND	$\pm 0.80\text{dB}$
CS-Clamp	$\pm 1.06\text{dB}$

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

Consistent with industry standard (e.g. CISPR 22: 2008, clause 11, Measurement Uncertainty) determining compliance with the limits shall be based on the results of the compliance measurement. Consequently the measured emissions being less than the maximum allowed emission result in this being a compliant test or passing test.



## 4. Test of Conducted Emission

### 4.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 kHz and return leads of the EUT according to the methods defined in Standard AS/NZS CISPR32.

**Table A.8 – Requirements for conducted emissions from the AC mains power ports of Class A equipment**

Applicable to				
1. AC mains power ports (3.1.1)				
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class A limits dB( $\mu$ V)
A8.1	0,15 – 0,5	AMN	Quasi Peak / 9 kHz	79
	0,5 – 30			73
A8.2	0,15 – 0,5	AMN	Average / 9 kHz	66
	0,5 – 30			60

NOTE Apply A8.1 and A8.2 across the entire frequency range.

**Table A.9 – Requirements for conducted emissions from the AC mains power ports of Class B equipment**

Applicable to				
1. AC mains power ports (3.1.1)				
Table clause	Frequency range MHz	Coupling device (see Table A.7)	Detector type / bandwidth	Class B limits dB( $\mu$ V)
A9.1	0,15 – 0,5	AMN	Quasi Peak / 9 kHz	66 – 56
	0,5 – 5			56
	5 – 30			60
A9.2	0,15 – 0,5	AMN	Average / 9 kHz	56 – 46
	0,5 – 5			46
	5 – 30			50

NOTE Apply A9.1 and A9.2 across the entire frequency range.

**Table A.10 – Requirements for asymmetric mode conducted emissions from Class A equipment**

<b>Applicable to</b>					
1. wired network ports (3.1.30)					
2. optical fibre ports (3.1.24) with metallic shield or tension members					
3. antenna ports (3.1.3)					
<b>Table clause</b>	<b>Frequency range MHz</b>	<b>Coupling device (see Table A.7)</b>	<b>Detector type / bandwidth</b>	<b>Class A voltage limits dB(<math>\mu</math>V)</b>	<b>Class A current limits dB(<math>\mu</math>A)</b>
A10.1	0,15 – 0,5	AAN	Quasi Peak / 9 kHz	97 – 87	n/a
	0,5 – 30			87	
	0,15 – 0,5	AAN	Average / 9 kHz	84 – 74	
	0,5 – 30			74	
A10.2	0,15 – 0,5	CVP and current probe	Quasi Peak / 9 kHz	97 – 87	53 – 43
	0,5 – 30			87	43
	0,15 – 0,5	CVP and current probe	Average / 9 kHz	84 – 74	40 – 30
	0,5 – 30			74	30
A10.3	0,15 – 0,5	Current Probe	Quasi Peak / 9 kHz	n/a	53 – 43
	0,5 – 30				43
	0,15 – 0,5	Current Probe	Average / 9 kHz		40 – 30
	0,5 – 30				30
NOTE 1 The choice of coupling device and measurement procedure is defined in Annex C.					
NOTE 2 AC mains power ports shall meet the limits given in Table A.8.					
NOTE 3 The test shall cover the entire frequency range.					
NOTE 4 The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 for applicability.					
NOTE 5 Testing is required at only one EUT supply voltage and frequency.					
NOTE 6 Applicable to ports listed above and intended to connect to cables longer than 3 m.					



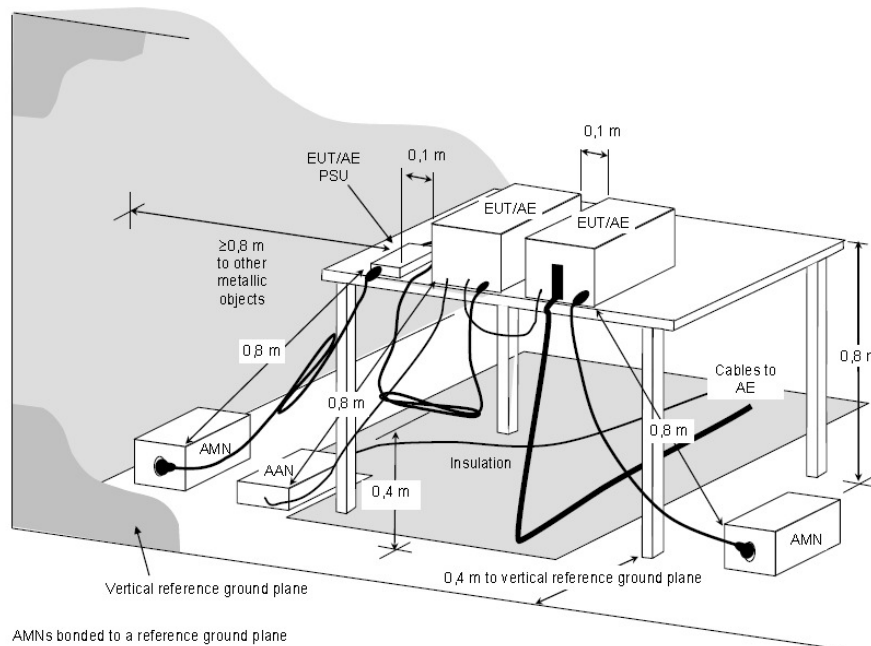
**Table A.11 – Requirements for asymmetric mode conducted emissions from Class B equipment**

<b>Applicable to</b>					
1. wired network ports (3.1.30)					
2. optical fibre ports (3.1.24) with metallic shield or tension members					
3. broadcast receiver tuner ports (3.1.8)					
4. antenna ports (3.1.3)					
<b>Table clause</b>	<b>Frequency range MHz</b>	<b>Coupling device (see Table A.7)</b>	<b>Detector type / bandwidth</b>	<b>Class B voltage limits dB(μV)</b>	<b>Class B current limits dB(μA)</b>
A11.1	0,15 – 0,5	AAN	Quasi Peak / 9 kHz	84 – 74	n/a
	0,5 – 30			74	
	0,15 – 0,5	AAN	Average / 9 kHz	74 – 64	
	0,5 – 30			64	
A11.2	0,15 – 0,5	CVP and current probe	Quasi Peak / 9 kHz	84 – 74	40 – 30
	0,5 – 30			74	30
	0,15 – 0,5	CVP and current probe	Average / 9 kHz	74 – 64	30 – 20
	0,5 – 30			64	20
A11.3	0,15 – 0,5	Current Probe	Quasi Peak / 9 kHz	n/a	40 – 30
	0,5 – 30				30
	0,15 – 0,5	Current Probe	Average / 9 kHz		30 – 20
	0,5 – 30				20
NOTE 1 The choice of coupling device and measurement procedure is defined in Annex C.					
NOTE 2 Screened ports including TV broadcast receiver tuner ports are tested with a common-mode impedance of 150 Ω. This is typically accomplished with the screen terminated by 150 Ω to earth.					
NOTE 3 AC mains power ports shall meet the limits given in Table A.9.					
NOTE 4 The test shall cover the entire frequency range.					
NOTE 5 The application of the voltage and/or current limits is dependent on the measurement procedure used. Refer to Table C.1 for applicability.					
NOTE 6 Testing is required at only one EUT supply voltage and frequency.					
NOTE 7 Applicable to ports listed above and intended to connect to cables longer than 3 m.					

### 4.2. Test Procedures

- The EUT was placed on a desk 0.8 meters height from the metal ground plane and 0.4 meter from the conducting wall of the shielding room and it was kept at least 0.8 meters from any other grounded conducting surface.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The CISPR states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

### 4.3. Typical Test Setup



NOTE The 0,8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be  $\geq 0,8$  m.

**Figure D.2 – Example measurement arrangement for table-top EUT (Conducted emission measurement – alternative 1)**



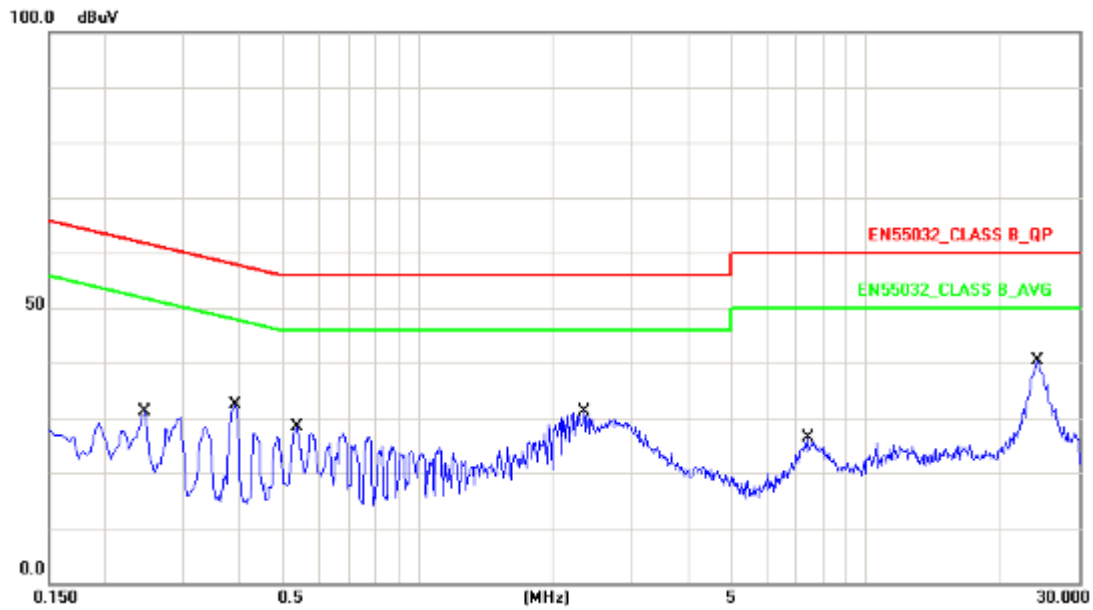
#### 4.4. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Test Receiver	R&S	ESCI	100565	2016.07.07	2017.07.06
AMN	R&S	ESH2-Z5	100182	2016.08.31	2017.08.30
Two-Line V-Network	R&S	ENV216	100325	/	/
ISN	FCC	FCC-TLISN-T2-02	20379	2016.03.26	2017.03.25
ISN	FCC	FCC-TLISN-T4-02	20380	2016.06.24	2017.06.24
ISN	FCC	FCC-TLISN-T8-02	20381	2016.03.26	2017.03.25
ISN	TESEQ	ISN ST08	30175	2016.03.26	2017.03.25
Current Probe	R&S	EZ-17	100303	2016.03.26	2017.03.25
Passive Voltage Probe	R&S	ESH2-Z3	100026	2016.03.26	2017.03.25
Pulse Limiter	R&S	ESH3-Z2	100529	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2016.03.29	2017.03.28
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



**4.5. Test Result and Data**

Test Mode :	Mode 1: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

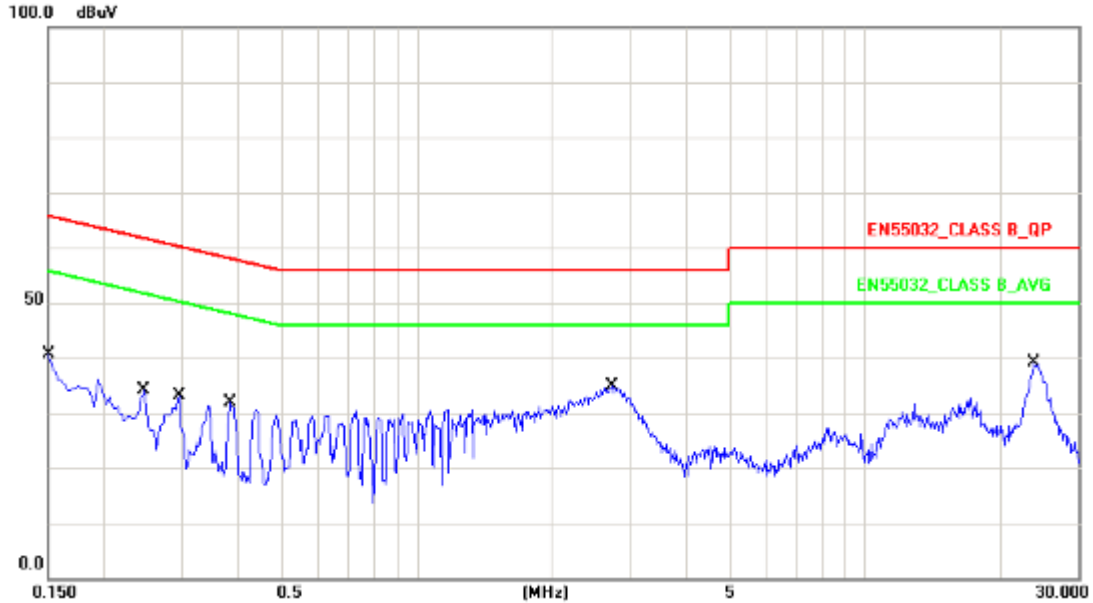


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2460	10.12	17.81	27.93	61.89	-33.96	QP
2	0.2460	10.12	14.74	24.86	51.89	-27.03	AVG
3	0.3871	10.15	20.13	30.28	58.12	-27.84	QP
4	0.3871	10.15	18.36	28.51	48.12	-19.61	AVG
5	0.5380	10.16	15.67	25.83	56.00	-30.17	QP
6	0.5380	10.16	11.33	21.49	46.00	-24.51	AVG
7	2.3540	10.18	17.98	28.16	56.00	-27.84	QP
8	2.3540	10.18	8.42	18.60	46.00	-27.40	AVG
9	7.4260	10.26	11.44	21.70	60.00	-38.30	QP
10	7.4260	10.26	4.82	15.08	50.00	-34.92	AVG
11	24.1700	10.41	24.49	34.90	60.00	-25.10	QP
12	24.1700	10.41	19.44	29.85	50.00	-20.15	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

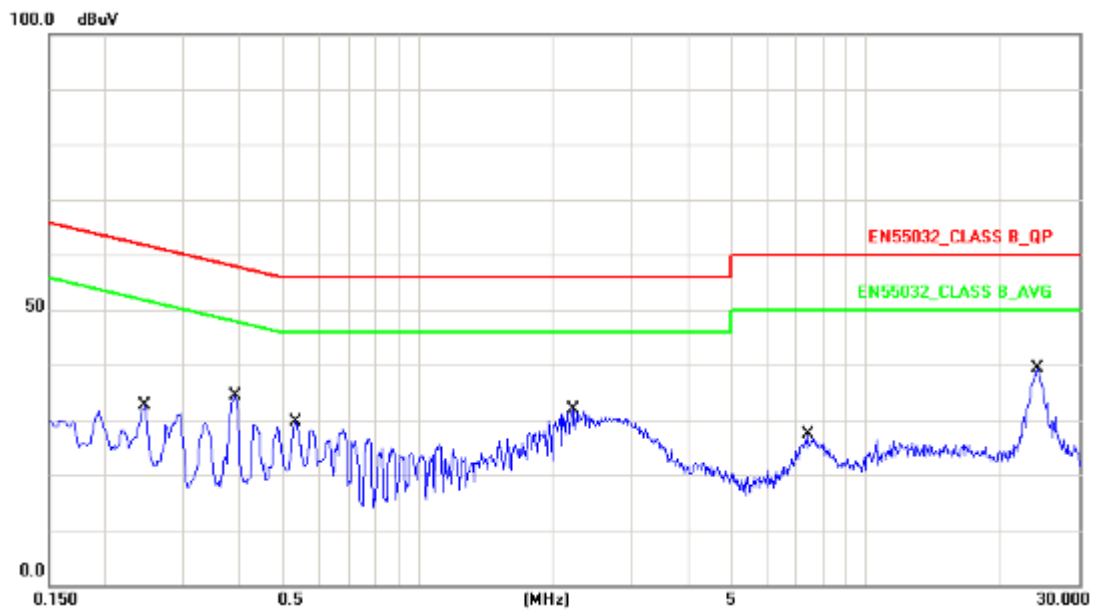


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	22.37	32.50	65.99	-33.49	QP
2	0.1500	10.13	14.28	24.41	55.99	-31.58	AVG
3	0.2460	10.13	19.05	29.18	61.89	-32.71	QP
4	0.2460	10.13	15.34	25.47	51.89	-26.42	AVG
5	0.2940	10.14	18.83	28.97	60.41	-31.44	QP
6	0.2940	10.14	15.02	25.16	50.41	-25.25	AVG
7	0.3820	10.15	19.95	30.10	58.23	-28.13	QP
8	0.3820	10.15	14.76	24.91	48.23	-23.32	AVG
9	2.7300	10.19	23.03	33.22	56.00	-22.78	QP
10	2.7300	10.19	14.34	24.53	46.00	-21.47	AVG
11	23.9820	10.36	23.52	33.88	60.00	-26.12	QP
12	23.9820	10.36	18.39	28.75	50.00	-21.25	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 4: Full system (HDMI2 mode 2560*1440@75@75Hz) (110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

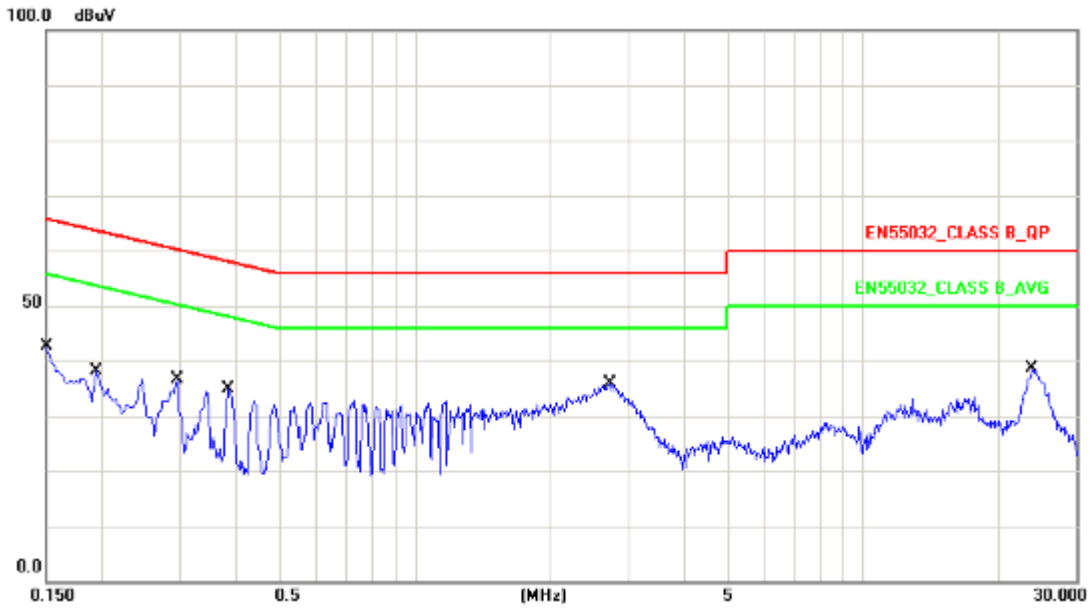


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2460	10.12	17.83	27.95	61.89	-33.94	QP
2	0.2460	10.12	14.44	24.56	51.89	-27.33	AVG
3	0.3899	10.15	20.50	30.65	58.06	-27.41	QP
4	0.3899	10.15	16.52	26.67	48.06	-21.39	AVG
5	0.5340	10.16	15.62	25.78	56.00	-30.22	QP
6	0.5340	10.16	12.13	22.29	46.00	-23.71	AVG
7	2.2139	10.17	17.59	27.76	56.00	-28.24	QP
8	2.2139	10.17	5.86	16.03	46.00	-29.97	AVG
9	7.4259	10.26	12.10	22.36	60.00	-37.64	QP
10	7.4259	10.26	5.13	15.39	50.00	-34.61	AVG
11	24.1700	10.41	24.56	34.97	60.00	-25.03	QP
12	24.1700	10.41	19.45	29.86	50.00	-20.14	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 4: Full system (HDMI2 mode 2560*1440@75@75Hz) (110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

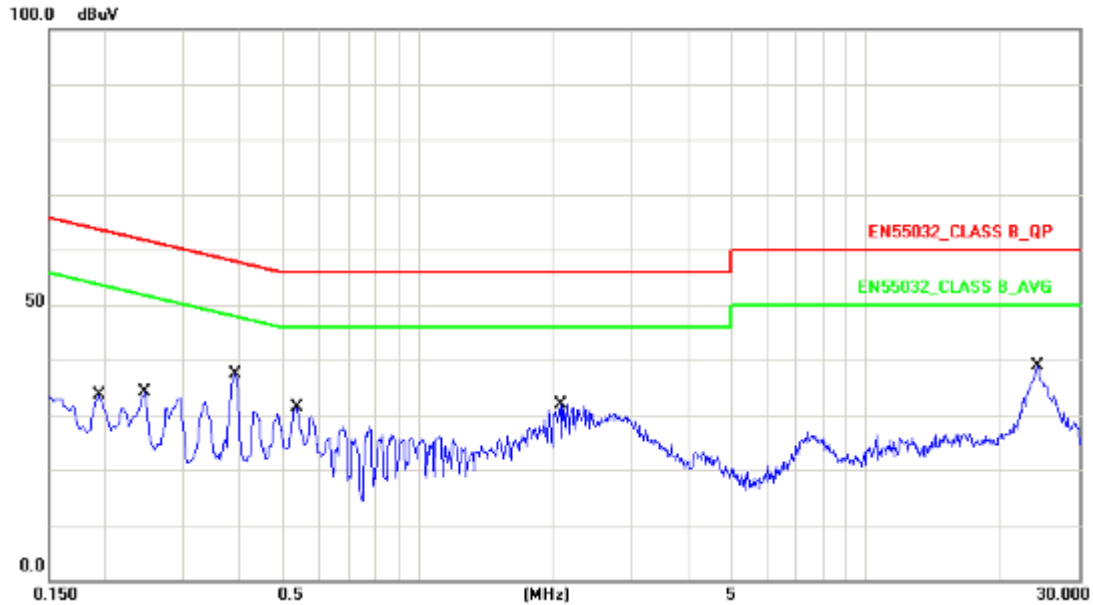


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1499	10.13	-14.31	-4.18	66.00	-70.18	QP
2	0.1499	10.13	-16.06	-5.93	56.00	-61.93	AVG
3	0.1940	10.13	18.50	28.63	63.86	-35.23	QP
4	0.1940	10.13	16.38	26.51	53.86	-27.35	AVG
5	0.2940	10.14	18.75	28.89	60.41	-31.52	QP
6	0.2940	10.14	15.06	25.20	50.41	-25.21	AVG
7	0.3820	10.15	20.07	30.22	58.23	-28.01	QP
8	0.3820	10.15	14.53	24.68	48.23	-23.55	AVG
9	2.7300	10.19	22.69	32.88	56.00	-23.12	QP
10	2.7300	10.19	12.26	22.45	46.00	-23.55	AVG
11	23.9820	10.36	23.41	33.77	60.00	-26.23	QP
12	23.9820	10.36	18.33	28.69	50.00	-21.31	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 7: Full system (VGA mode 1920*1080@60Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23



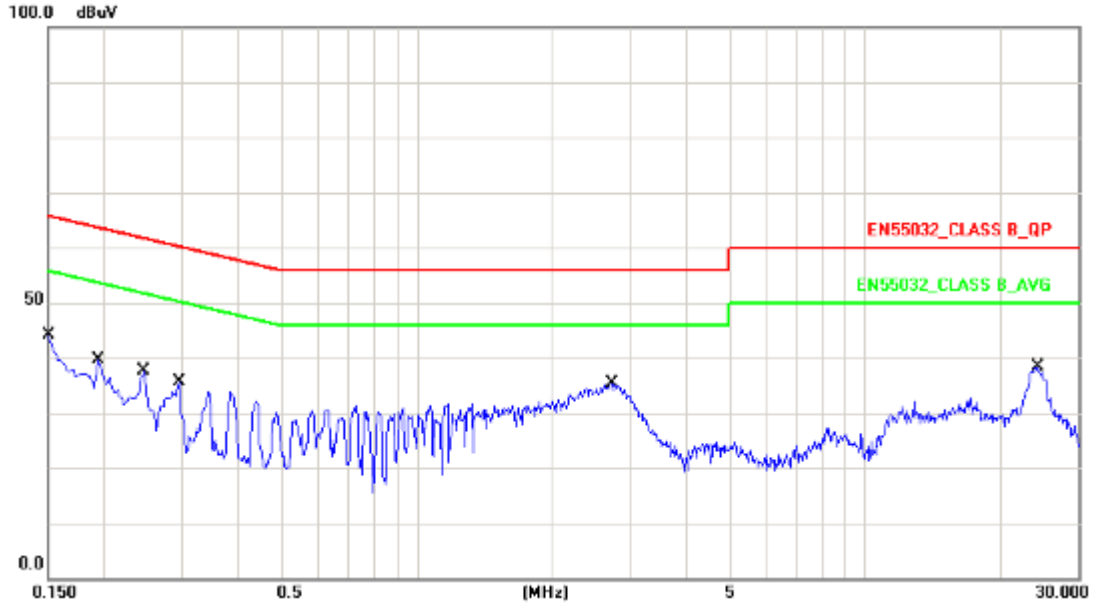
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1940	10.12	16.83	26.95	63.86	-36.91	QP
2	0.1940	10.12	15.42	25.54	53.86	-28.32	AVG
3	0.2460	10.12	18.03	28.15	61.89	-33.74	QP
4	0.2460	10.12	14.66	24.78	51.89	-27.11	AVG
5	0.3899	10.15	20.48	30.63	58.06	-27.43	QP
6	0.3899	10.15	17.08	27.23	48.06	-20.83	AVG
7	0.5380	10.16	15.62	25.78	56.00	-30.22	QP
8	0.5380	10.16	9.96	20.12	46.00	-25.88	AVG
9	2.0860	10.17	10.41	20.58	56.00	-35.42	QP
10	2.0860	10.17	1.37	11.54	46.00	-34.46	AVG
11	24.1700	10.41	24.47	34.88	60.00	-25.12	QP
12	24.1700	10.41	19.30	29.71	50.00	-20.29	AVG

Note: Measurement Level = Reading Level + Correct Factor





Test Mode :	Mode 7: Full system (VGA mode 1920*1080@60Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

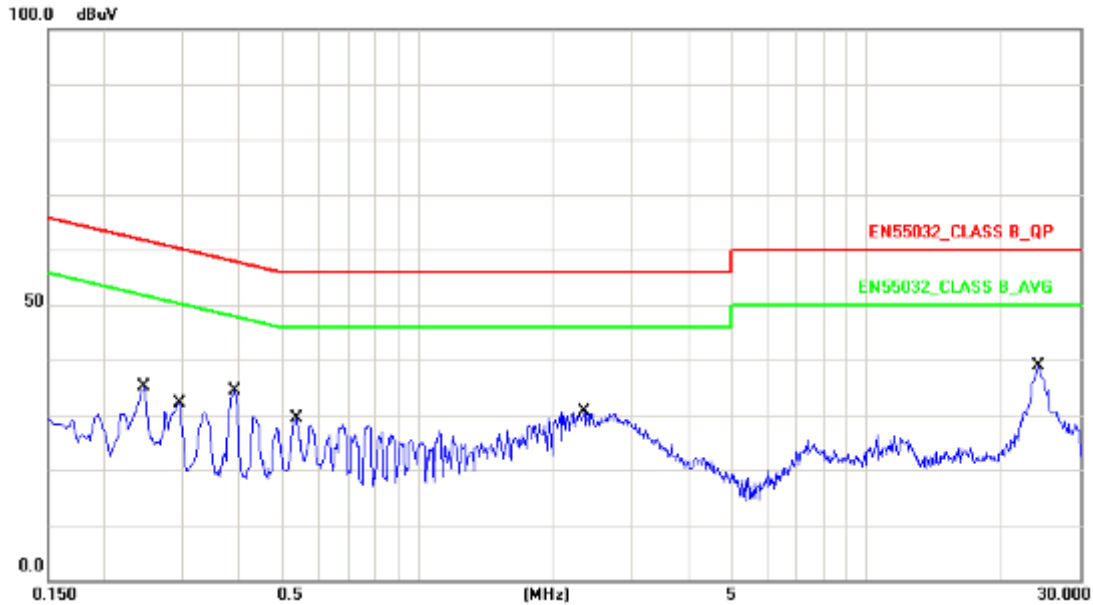


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	21.40	31.53	65.99	-34.46	QP
2	0.1500	10.13	14.62	24.75	55.99	-31.24	AVG
3	0.1940	10.13	18.23	28.36	63.86	-35.50	QP
4	0.1940	10.13	16.66	26.79	53.86	-27.07	AVG
5	0.2460	10.13	19.61	29.74	61.89	-32.15	QP
6	0.2460	10.13	16.21	26.34	51.89	-25.55	AVG
7	0.2940	10.14	19.02	29.16	60.41	-31.25	QP
8	0.2940	10.14	15.99	26.13	50.41	-24.28	AVG
9	2.7300	10.19	22.77	32.96	56.00	-23.04	QP
10	2.7300	10.19	12.66	22.85	46.00	-23.15	AVG
11	24.2860	10.36	23.87	34.23	60.00	-25.77	QP
12	24.2860	10.36	18.90	29.26	50.00	-20.74	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 10: Full system (DP1 mode 2560*1440@144Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

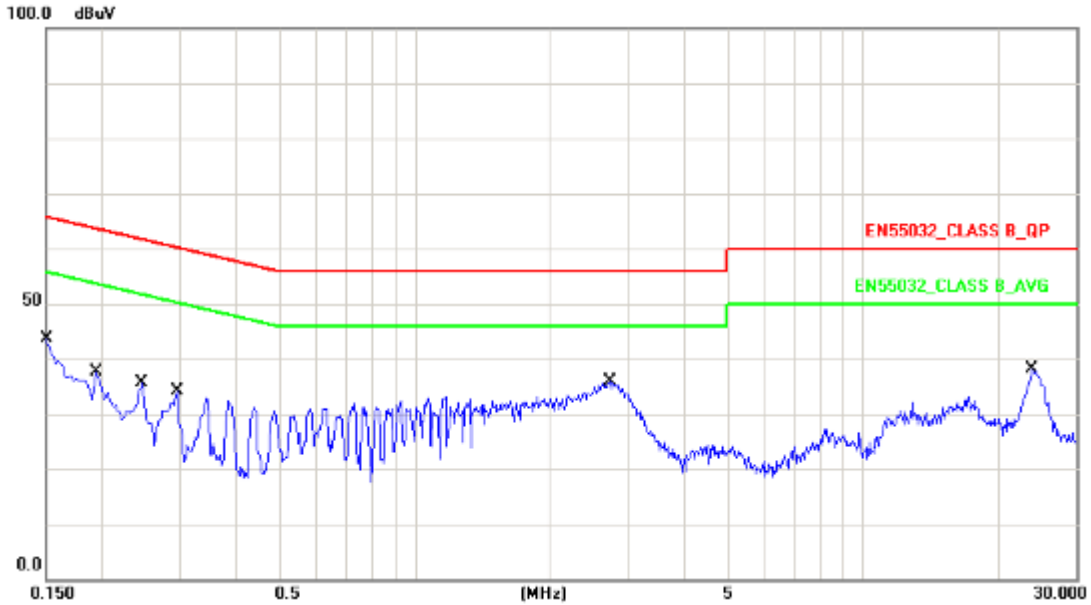


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2460	10.12	17.62	27.74	61.89	-34.15	QP
2	0.2460	10.12	14.47	24.59	51.89	-27.30	AVG
3	0.2940	10.14	17.68	27.82	60.41	-32.59	QP
4	0.2940	10.14	14.61	24.75	50.41	-25.66	AVG
5	0.3899	10.15	20.34	30.49	58.06	-27.57	QP
6	0.3899	10.15	16.74	26.89	48.06	-21.17	AVG
7	0.5380	10.16	15.45	25.61	56.00	-30.39	QP
8	0.5380	10.16	11.10	21.26	46.00	-24.74	AVG
9	2.3540	10.18	17.96	28.14	56.00	-27.86	QP
10	2.3540	10.18	7.11	17.29	46.00	-28.71	AVG
11	24.1700	10.41	24.56	34.97	60.00	-25.03	QP
12	24.1700	10.41	19.47	29.88	50.00	-20.12	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 10: Full system (DP1 mode 2560*1440@144Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

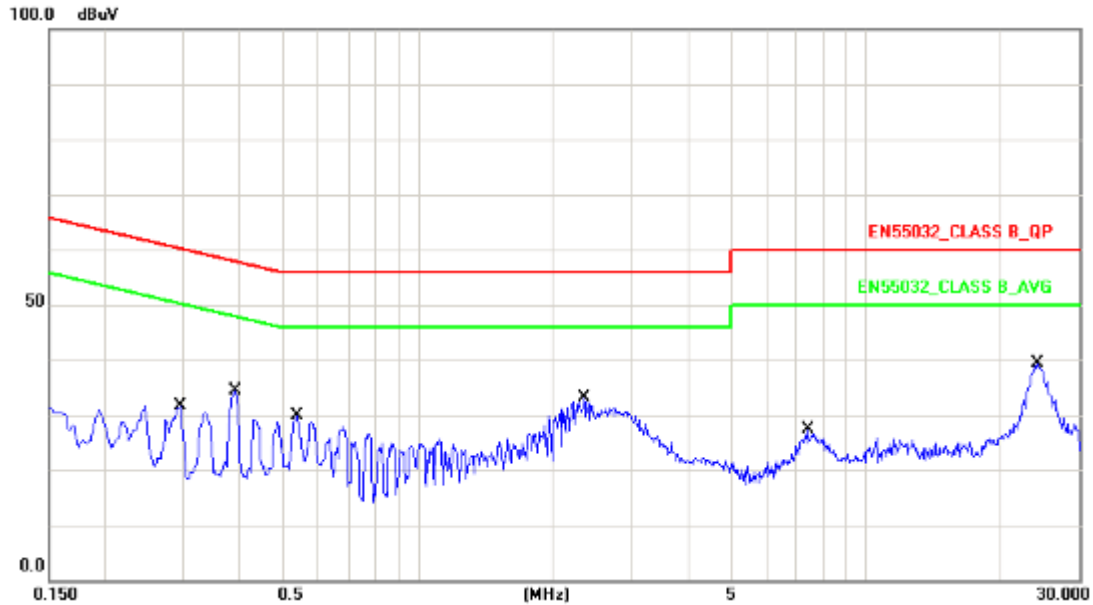


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	17.66	27.79	65.99	-38.20	QP
2	0.1500	10.13	14.40	24.53	55.99	-31.46	AVG
3	0.1940	10.13	17.58	27.71	63.86	-36.15	QP
4	0.1940	10.13	16.21	26.34	53.86	-27.52	AVG
5	0.2460	10.13	19.46	29.59	61.89	-32.30	QP
6	0.2460	10.13	16.39	26.52	51.89	-25.37	AVG
7	0.2940	10.14	18.90	29.04	60.41	-31.37	QP
8	0.2940	10.14	16.00	26.14	50.41	-24.27	AVG
9	2.7300	10.19	22.82	33.01	56.00	-22.99	QP
10	2.7300	10.19	12.68	22.87	46.00	-23.13	AVG
11	23.9820	10.36	23.52	33.88	60.00	-26.12	QP
12	23.9820	10.36	18.40	28.76	50.00	-21.24	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 13: Full system (DP2 mode 2560*1440@144Hz) (110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

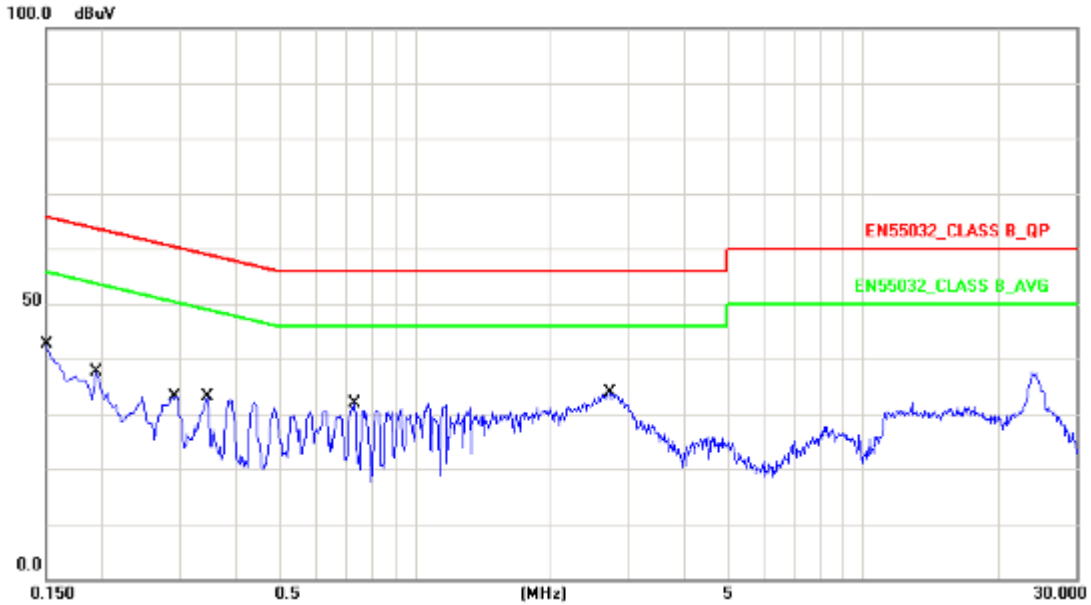


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2940	10.14	17.55	27.69	60.41	-32.72	QP
2	0.2940	10.14	14.07	24.21	50.41	-26.20	AVG
3	0.3899	10.15	20.17	30.32	58.06	-27.74	QP
4	0.3899	10.15	16.33	26.48	48.06	-21.58	AVG
5	0.5380	10.16	15.46	25.62	56.00	-30.38	QP
6	0.5380	10.16	10.93	21.09	46.00	-24.91	AVG
7	2.3540	10.18	17.63	27.81	56.00	-28.19	QP
8	2.3540	10.18	7.39	17.57	46.00	-28.43	AVG
9	7.4259	10.26	11.62	21.88	60.00	-38.12	QP
10	7.4259	10.26	5.08	15.34	50.00	-34.66	AVG
11	24.1700	10.41	24.42	34.83	60.00	-25.17	QP
12	24.1700	10.41	19.47	29.88	50.00	-20.12	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 13: Full system (DP2 mode 2560*1440@144Hz) (110V/60Hz)		
AC Power :	AC 110V/60Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

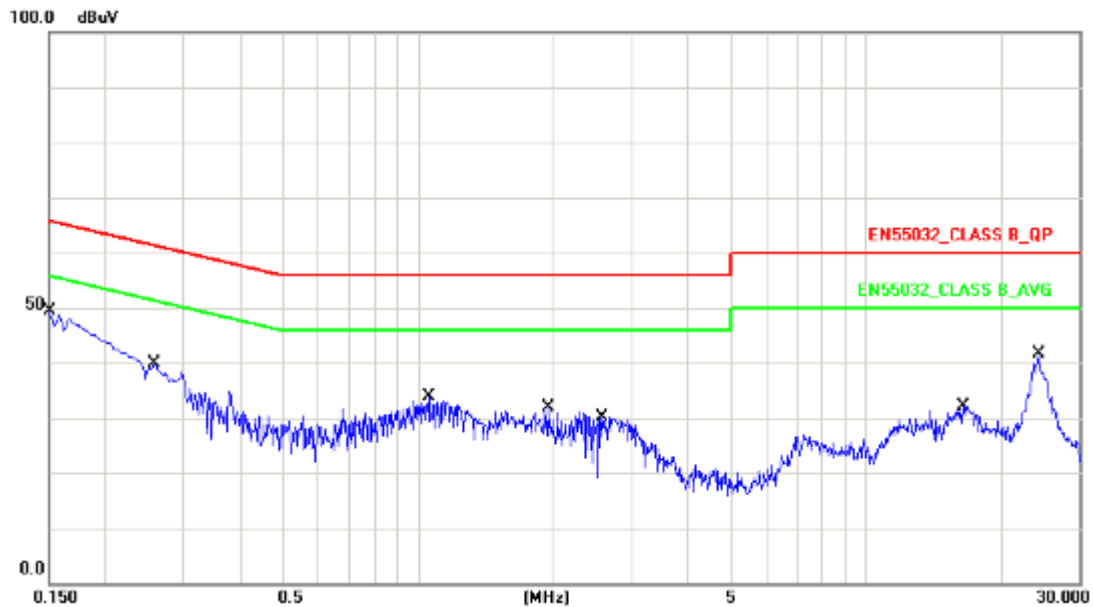


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	17.59	27.72	65.99	-38.27	QP
2	0.1500	10.13	14.58	24.71	55.99	-31.28	AVG
3	0.1940	10.13	17.68	27.81	63.86	-36.05	QP
4	0.1940	10.13	16.09	26.22	53.86	-27.64	AVG
5	0.2908	10.14	19.00	29.14	60.50	-31.36	QP
6	0.2908	10.14	16.99	27.13	50.50	-23.37	AVG
7	0.3428	10.14	18.80	28.94	59.13	-30.19	QP
8	0.3428	10.14	14.24	24.38	49.13	-24.75	AVG
9	0.7340	10.16	18.61	28.77	56.00	-27.23	QP
10	0.7340	10.16	10.78	20.94	46.00	-25.06	AVG
11	2.7300	10.19	22.72	32.91	56.00	-23.09	QP
12	2.7300	10.19	12.25	22.44	46.00	-23.56	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 16: Full system (HDMI1 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

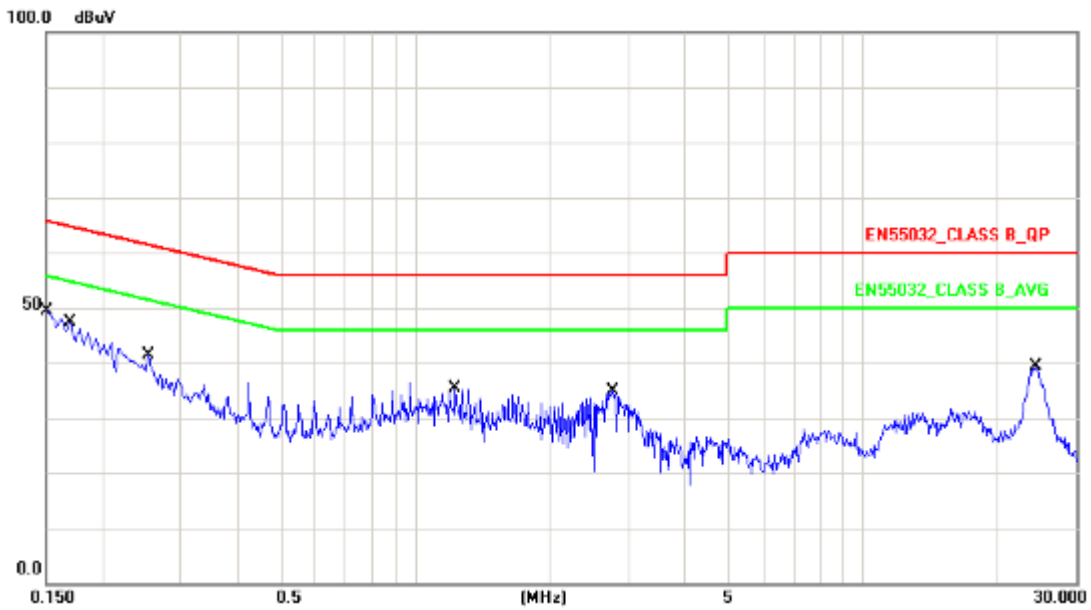


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	31.79	41.92	65.99	-24.07	QP
2	0.1500	10.13	4.87	15.00	55.99	-40.99	AVG
3	0.2580	10.13	21.50	31.63	61.49	-29.86	QP
4	0.2580	10.13	14.45	24.58	51.49	-26.91	AVG
5	1.0620	10.16	15.06	25.22	56.00	-30.78	QP
6	1.0620	10.16	10.53	20.69	46.00	-25.31	AVG
7	1.9580	10.17	14.66	24.83	56.00	-31.17	QP
8	1.9580	10.17	8.59	18.76	46.00	-27.24	AVG
9	2.5940	10.18	17.60	27.78	56.00	-28.22	QP
10	2.5940	10.18	14.34	24.52	46.00	-21.48	AVG
11	16.4939	10.47	14.06	24.53	60.00	-35.47	QP
12	16.4939	10.47	8.21	18.68	50.00	-31.32	AVG
13	24.2740	10.41	25.13	35.54	60.00	-24.46	QP
14	24.2740	10.41	20.05	30.46	50.00	-19.54	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 16: Full system (HDMI1 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

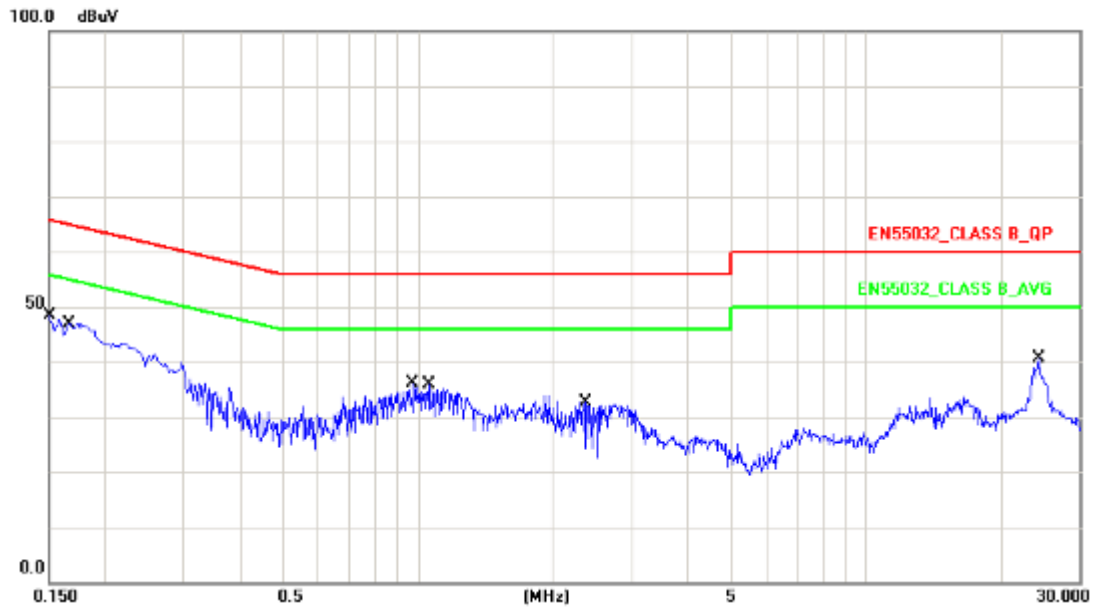


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	31.67	41.80	65.99	-24.19	QP
2	0.1500	10.13	5.03	15.16	55.99	-40.83	AVG
3	0.1700	10.13	29.36	39.49	64.96	-25.47	QP
4	0.1700	10.13	18.49	28.62	54.96	-26.34	AVG
5	0.2540	10.13	22.00	32.13	61.62	-29.49	QP
6	0.2540	10.13	18.97	29.10	51.62	-22.52	AVG
7	1.2300	10.18	18.60	28.78	56.00	-27.22	QP
8	1.2300	10.18	16.85	27.03	46.00	-18.97	AVG
9	2.7659	10.20	22.76	32.96	56.00	-23.04	QP
10	2.7659	10.20	16.39	26.59	46.00	-19.41	AVG
11	24.3060	10.36	23.95	34.31	60.00	-25.69	QP
12	24.3060	10.36	18.86	29.22	50.00	-20.78	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 19: Full system (HDMI2 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23



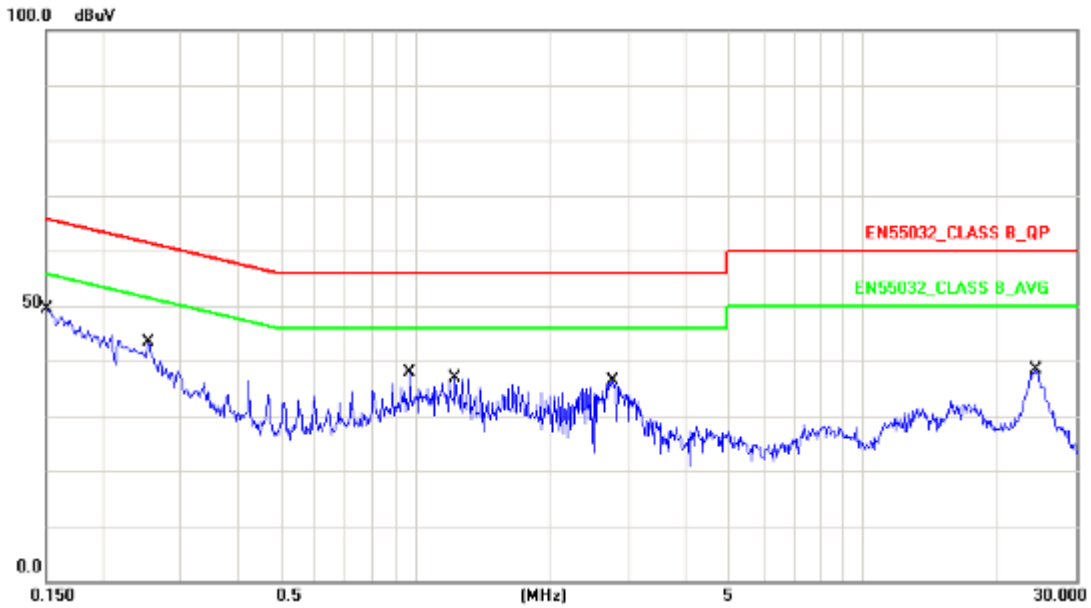
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	31.87	42.00	65.99	-23.99	QP
2	0.1500	10.13	4.93	15.06	55.99	-40.93	AVG
3	0.1660	10.13	29.71	39.84	65.15	-25.31	QP
4	0.1660	10.13	12.24	22.37	55.15	-32.78	AVG
5	0.9780	10.16	13.93	24.09	56.00	-31.91	QP
6	0.9780	10.16	8.47	18.63	46.00	-27.37	AVG
7	1.0620	10.16	14.98	25.14	56.00	-30.86	QP
8	1.0620	10.16	10.73	20.89	46.00	-25.11	AVG
9	2.3780	10.18	19.20	29.38	56.00	-26.62	QP
10	2.3780	10.18	13.89	24.07	46.00	-21.93	AVG
11	24.2740	10.41	24.75	35.16	60.00	-24.84	QP
12	24.2740	10.41	19.73	30.14	50.00	-19.86	AVG

Note: Measurement Level = Reading Level + Correct Factor





Test Mode :	Mode 19: Full system (HDMI2 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

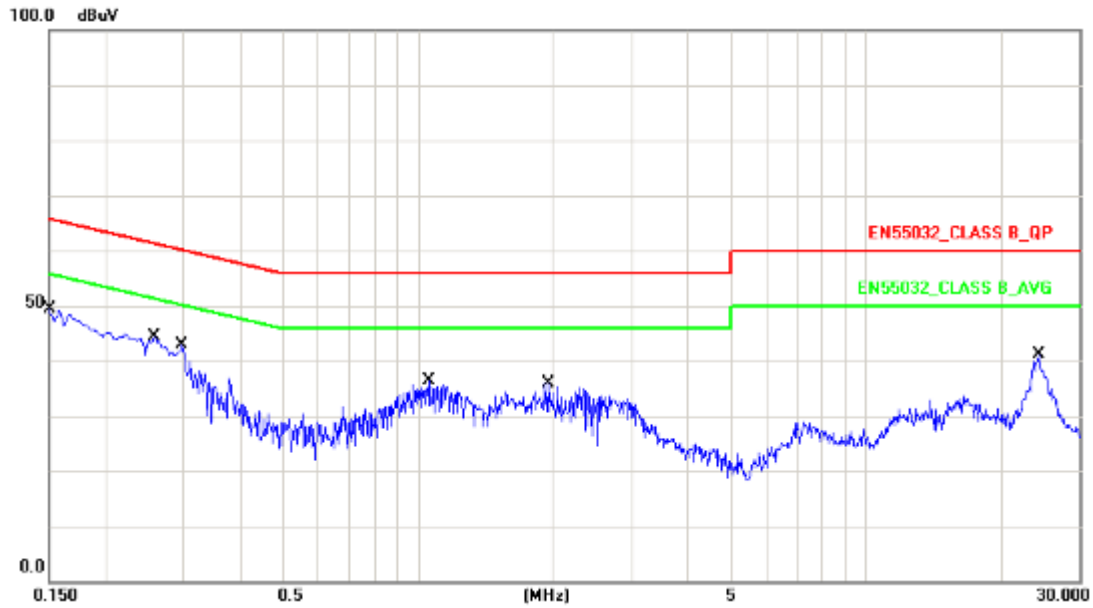


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	31.69	41.82	65.99	-24.17	QP
2	0.1500	10.13	5.06	15.19	55.99	-40.80	AVG
3	0.2540	10.13	22.52	32.65	61.62	-28.97	QP
4	0.2540	10.13	18.98	29.11	51.62	-22.51	AVG
5	0.9780	10.18	18.51	28.69	56.00	-27.31	QP
6	0.9780	10.18	16.95	27.13	46.00	-18.87	AVG
7	1.2300	10.18	18.63	28.81	56.00	-27.19	QP
8	1.2300	10.18	16.96	27.14	46.00	-18.86	AVG
9	2.7659	10.20	22.67	32.87	56.00	-23.13	QP
10	2.7659	10.20	15.94	26.14	46.00	-19.86	AVG
11	24.3060	10.36	23.62	33.98	60.00	-26.02	QP
12	24.3060	10.36	18.58	28.94	50.00	-21.06	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 22: Full system (VGA mode 1920*1080@60Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

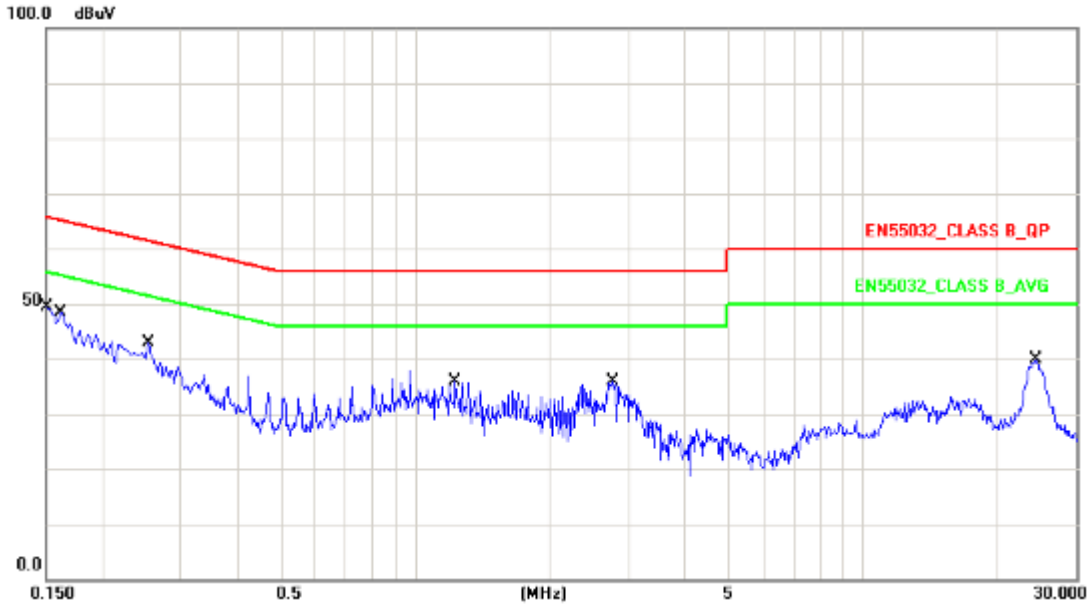


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	31.69	41.82	65.99	-24.17	QP
2	0.1500	10.13	4.88	15.01	55.99	-40.98	AVG
3	0.2580	10.13	21.55	31.68	61.49	-29.81	QP
4	0.2580	10.13	14.60	24.73	51.49	-26.76	AVG
5	0.2980	10.14	19.92	30.06	60.30	-30.24	QP
6	0.2980	10.14	17.34	27.48	50.30	-22.82	AVG
7	1.0620	10.16	15.00	25.16	56.00	-30.84	QP
8	1.0620	10.16	10.83	20.99	46.00	-25.01	AVG
9	1.9580	10.17	14.74	24.91	56.00	-31.09	QP
10	1.9580	10.17	8.65	18.82	46.00	-27.18	AVG
11	24.4660	10.41	25.72	36.13	60.00	-23.87	QP
12	24.4660	10.41	20.65	31.06	50.00	-18.94	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 22: Full system (VGA mode 1920*1080@60Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

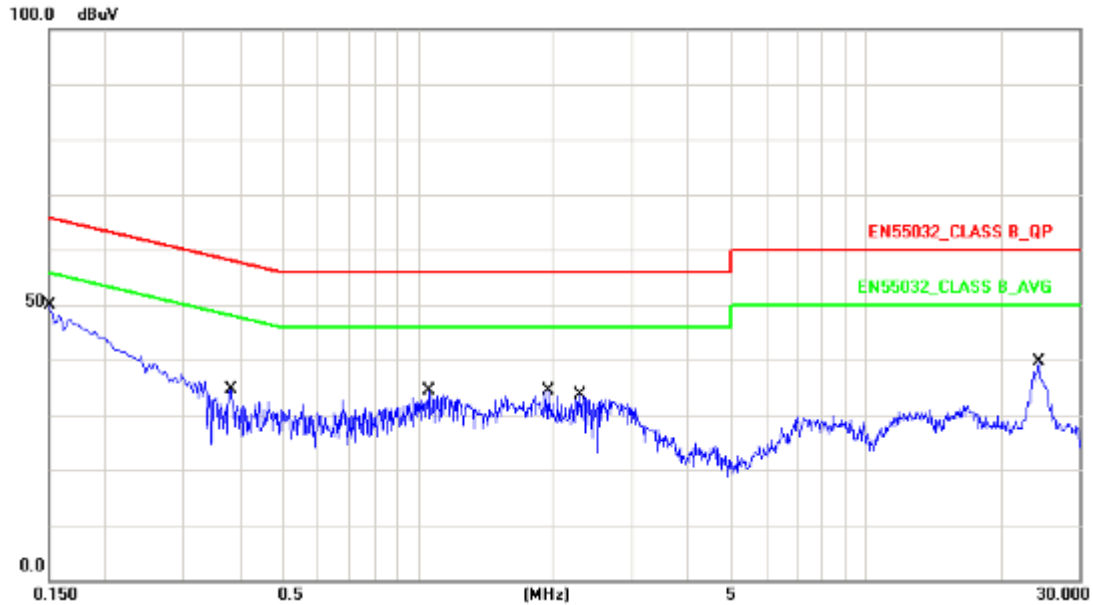


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	31.67	41.80	65.99	-24.19	QP
2	0.1500	10.13	5.02	15.15	55.99	-40.84	AVG
3	0.1620	10.13	29.82	39.95	65.36	-25.41	QP
4	0.1620	10.13	6.52	16.65	55.36	-38.71	AVG
5	0.2540	10.13	22.32	32.45	61.62	-29.17	QP
6	0.2540	10.13	18.95	29.08	51.62	-22.54	AVG
7	1.2300	10.18	18.60	28.78	56.00	-27.22	QP
8	1.2300	10.18	16.89	27.07	46.00	-18.93	AVG
9	2.7659	10.20	22.64	32.84	56.00	-23.16	QP
10	2.7659	10.20	16.01	26.21	46.00	-19.79	AVG
11	24.3060	10.36	22.94	33.30	60.00	-26.70	QP
12	24.3060	10.36	17.97	28.33	50.00	-21.67	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 25: Full system (DP2 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

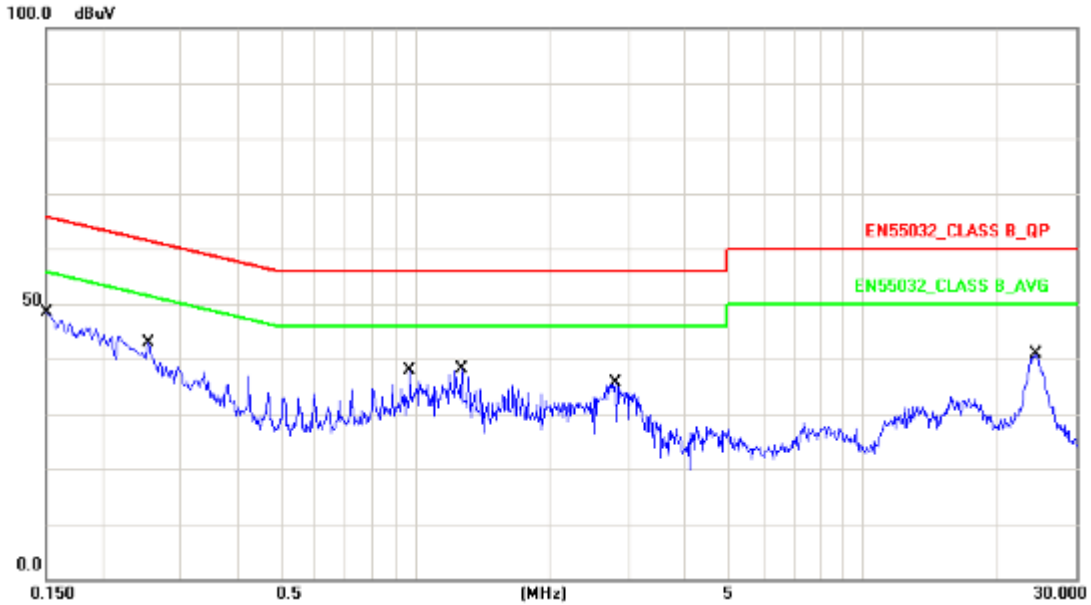


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	31.71	41.84	65.99	-24.15	QP
2	0.1500	10.13	4.90	15.03	55.99	-40.96	AVG
3	0.3820	10.15	22.13	32.28	58.23	-25.95	QP
4	0.3820	10.15	21.94	32.09	48.23	-16.14	AVG
5	1.0620	10.16	15.08	25.24	56.00	-30.76	QP
6	1.0620	10.16	10.91	21.07	46.00	-24.93	AVG
7	1.9580	10.17	14.64	24.81	56.00	-31.19	QP
8	1.9580	10.17	8.49	18.66	46.00	-27.34	AVG
9	2.2980	10.17	19.36	29.53	56.00	-26.47	QP
10	2.2980	10.17	14.78	24.95	46.00	-21.05	AVG
11	24.2740	10.41	25.17	35.58	60.00	-24.42	QP
12	24.2740	10.41	20.04	30.45	50.00	-19.55	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 25: Full system (DP2 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

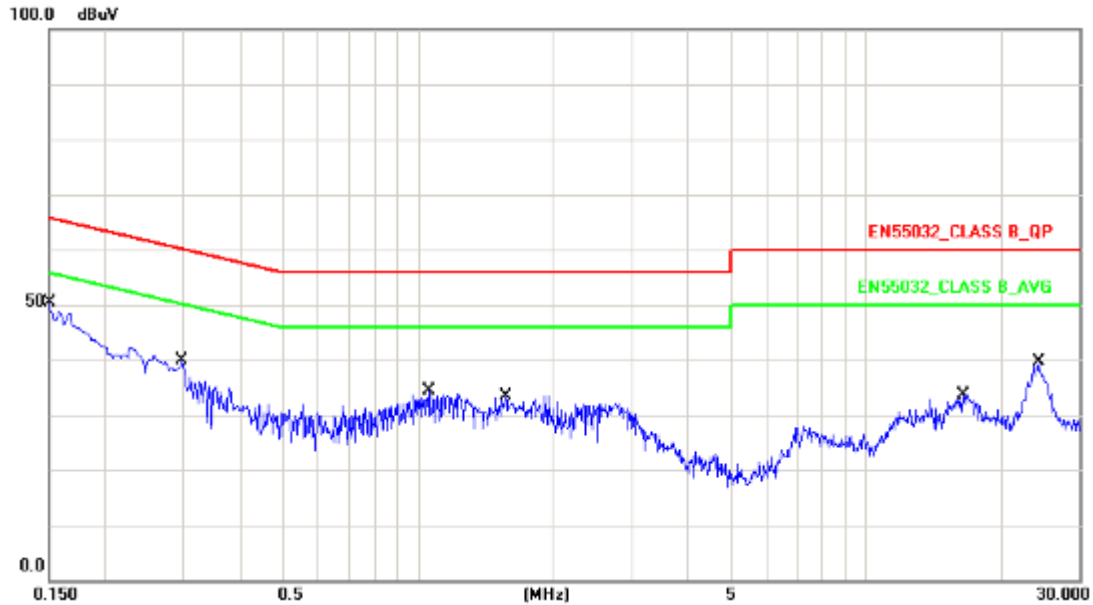


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	-3.92	6.21	65.99	-59.78	QP
2	0.1500	10.13	-5.87	4.26	55.99	-51.73	AVG
3	0.2540	10.13	22.56	32.69	61.62	-28.93	QP
4	0.2540	10.13	18.89	29.02	51.62	-22.60	AVG
5	0.9780	10.18	17.96	28.14	56.00	-27.86	QP
6	0.9780	10.18	16.63	26.81	46.00	-19.19	AVG
7	1.2740	10.18	18.86	29.04	56.00	-26.96	QP
8	1.2740	10.18	17.96	28.14	46.00	-17.86	AVG
9	2.8060	10.20	22.67	32.87	56.00	-23.13	QP
10	2.8060	10.20	18.18	28.38	46.00	-17.62	AVG
11	24.3060	10.36	23.82	34.18	60.00	-25.82	QP
12	24.3060	10.36	18.79	29.15	50.00	-20.85	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 28: Full system (DP2 mode 2560*1440@144Hz) ( 230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	LINE
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23

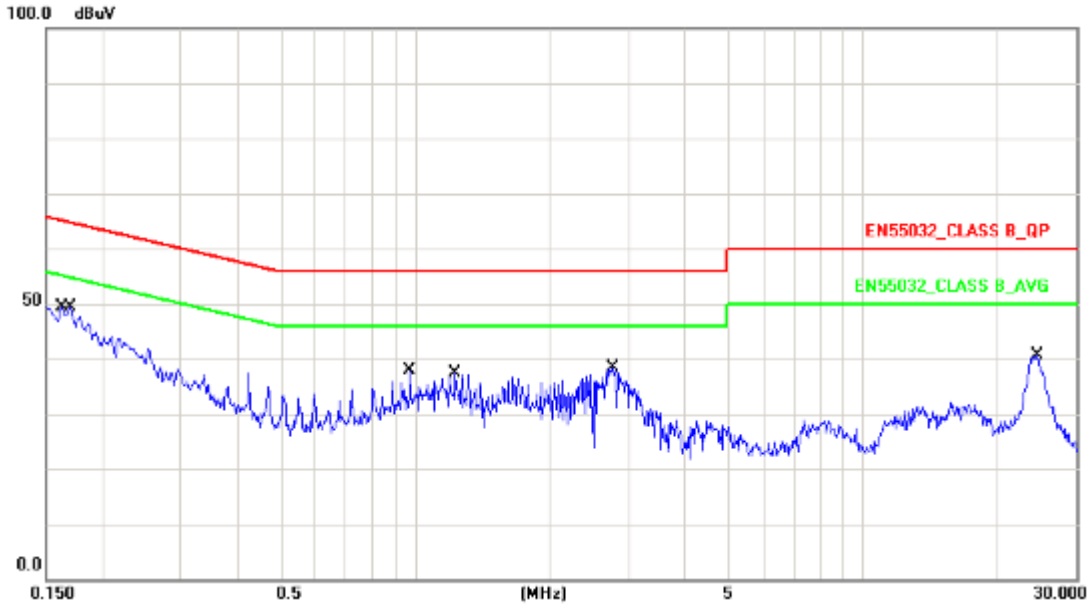


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	10.13	31.89	42.02	65.99	-23.97	QP
2	0.1500	10.13	4.97	15.10	55.99	-40.89	AVG
3	0.2980	10.14	20.05	30.19	60.30	-30.11	QP
4	0.2980	10.14	17.32	27.46	50.30	-22.84	AVG
5	1.0620	10.16	15.45	25.61	56.00	-30.39	QP
6	1.0620	10.16	10.94	21.10	46.00	-24.90	AVG
7	1.5740	10.17	12.84	23.01	56.00	-32.99	QP
8	1.5740	10.17	8.39	18.56	46.00	-27.44	AVG
9	16.4939	10.47	13.90	24.37	60.00	-35.63	QP
10	16.4939	10.47	7.94	18.41	50.00	-31.59	AVG
11	24.2740	10.41	25.09	35.50	60.00	-24.50	QP
12	24.2740	10.41	19.99	30.40	50.00	-19.60	AVG

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 28: Full system (DP2 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Phase :	NEUTRAL
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	25°C	Humidity :	54%
Pressure(mbar) :	1001	Date:	2017/01/23



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1624	10.13	29.42	39.55	65.34	-25.79	QP
2	0.1624	10.13	7.20	17.33	55.34	-38.01	AVG
3	0.1700	10.13	29.04	39.17	64.96	-25.79	QP
4	0.1700	10.13	18.34	28.47	54.96	-26.49	AVG
5	0.9780	10.18	18.20	28.38	56.00	-27.62	QP
6	0.9780	10.18	16.56	26.74	46.00	-19.26	AVG
7	1.2300	10.18	18.57	28.75	56.00	-27.25	QP
8	1.2300	10.18	16.96	27.14	46.00	-18.86	AVG
9	2.7659	10.20	22.35	32.55	56.00	-23.45	QP
10	2.7659	10.20	14.94	25.14	46.00	-20.86	AVG
11	24.5459	10.36	23.06	33.42	60.00	-26.58	QP
12	24.5459	10.36	18.07	28.43	50.00	-21.57	AVG

Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Sun. Zhang

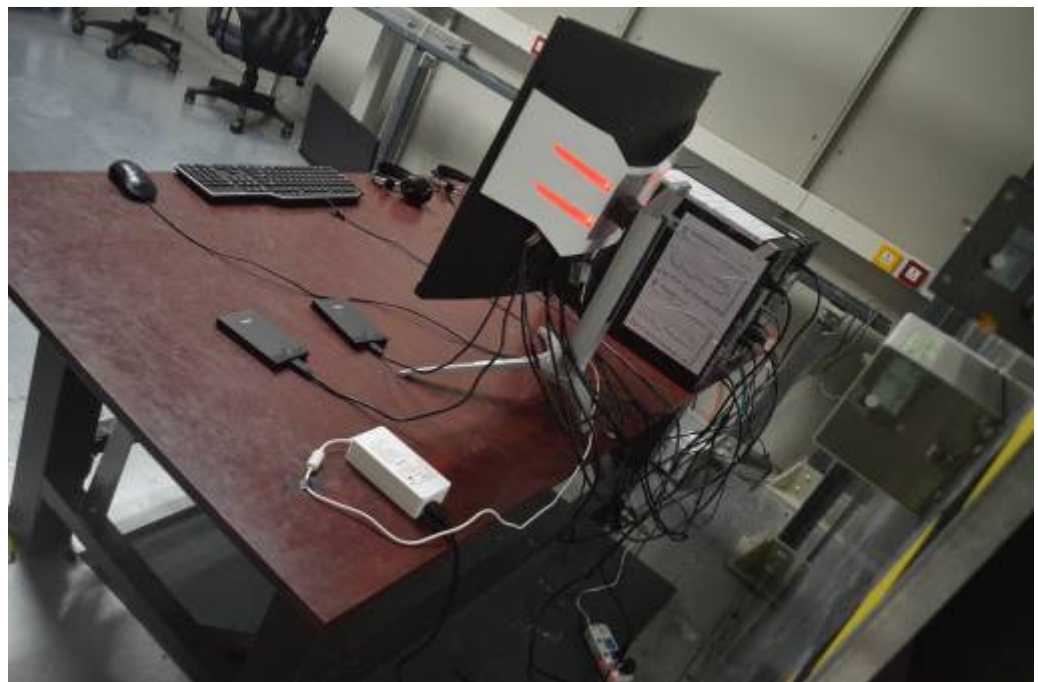


#### 4.6. Test Photographs

Front View



Rear View







## 5. Test of Radiated Emission

### 5.1. Test Limit

The EUT shall meet the limits of below Table when measured at the measuring distance R in accordance with the methods described in European Standard EN 55032. If the reading on the measuring receiver shows fluctuations close to the limit, the reading shall be observed for at least 15 s at each measurement frequency; the highest reading shall be recorded, with the exception of any brief isolated high reading, which shall be ignored.

**Table 1 – Required highest frequency for radiated measurement**

Highest internal frequency ( $F_x$ )	Highest measured frequency
$F_x \leq 108$ MHz	1 GHz
$108 \text{ MHz} < F_x \leq 500$ MHz	2 GHz
$500 \text{ MHz} < F_x \leq 1$ GHz	5 GHz
$F_x > 1$ GHz	$5 \times F_x$ up to a maximum of 6 GHz

NOTE 1 For FM and TV broadcast receivers,  $F_x$  is determined from the highest frequency generated or used excluding the local oscillator and tuned frequencies.

NOTE 2  $F_x$  is defined in 3.1.19.

Where the  $F_x$  is unknown, the radiated emission measurements shall be performed up to 6 GHz.

**Table A.2 – Requirements for radiated emissions at frequencies up to 1 GHz for Class A equipment**

Table clause	Frequency range MHz	Measurement		Class A limits dB( $\mu$ V/m)
		Distance m	Detector type/ bandwidth	OATS/SAC (see Table A.1)
A2.1	30 – 230	10	Quasi Peak / 120 kHz	40
	230 – 1 000			47
A2.2	30 – 230	3		50
	230 – 1 000			57

NOTE Apply only A2.1 or A2.2 across the entire frequency range.

**Table A.3 – Requirements for radiated emissions at frequencies above 1 GHz for Class A equipment**

Table clause	Frequency range MHz	Measurement		Class A limits dB( $\mu$ V/m)
		Distance m	Detector type/ bandwidth	FSOATS (see Table A.1)
A3.1	1 000 – 3 000	3	Average / 1 MHz	56
	3 000 – 6 000			60
A3.2	1 000 – 3 000		Peak / 1 MHz	76
	3 000 – 6 000			80

NOTE 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.

**Table A.4 – Requirements for radiated emissions at frequencies up to 1 GHz for Class B equipment**

Table clause	Frequency range MHz	Measurement		Class B limits dB( $\mu$ V/m)
		Distance m	Detector type/ bandwidth	OATS/SAC (see Table A.1)
A4.1	30 – 230	10	Quasi Peak / 120 kHz	30
	230 – 1 000			37
A4.2	30 – 230	3		40
	230 – 1 000			47

NOTE Apply only table clause A4.1 or A4.2 across the entire frequency range.

**Table A.5 – Requirements for radiated emissions at frequencies above 1 GHz for Class B equipment**

Table clause	Frequency range MHz	Measurement		Class B limits dB( $\mu$ V/m)
		Distance m	Detector type/ bandwidth	FSOATS (see Table A.1)
A5.1	1 000 – 3 000	3	Average/ 1 MHz	50
	3 000 – 6 000			54
A5.2	1 000 – 3 000		Peak/ 1 MHz	70
	3 000 – 6 000			74

NOTE 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.

**Table A.6 – Requirements for radiated emissions from FM receivers**

Table clause	Frequency range MHz	Measurement		Class B limit dB( $\mu$ V/m)	
		Distance m	Detector type/ bandwidth	Fundamental	Harmonics
				OATS/SAC (see Table A.1)	OATS/SAC (see Table A.1)
A6.1	30 – 230	10	Quasi peak/ 120 kHz	50	42
	230 – 300				42
	300 – 1 000				46
A6.2	30 – 230	3		60	52
	230 – 300				52
	300 – 1 000				56

NOTE 1 Apply only A.6.1 or A.6.2 across the entire frequency range.

NOTE 2 These relaxed limits apply only to emissions at the fundamental and harmonic frequencies of the local oscillator. Signals at all other frequencies shall be compliant with the limits given in Table A.4.



**Table A.12 – Requirements for conducted differential voltage emissions from Class B equipment**

Applicable to						
1. TV broadcast receiver tuner ports (3.1.8) with an accessible connector						
2. RF modulator output ports (3.1.27)						
3. FM broadcast receiver tuner ports (3.1.8) with an accessible connector						
Table clause	Frequency range MHz	Detector type/ bandwidth	Class B limits dB(μV) 75 Ω			Applicability
			Other	Local Oscillator Fundamental	Local Oscillator Harmonics	
A12.1	30 – 950	For frequencies ≤1 GHz	46	46	46	See NOTE 1
	950 – 2 150		46	54	54	
A12.2	950 – 2 150	Quasi Peak/ 120 kHz	46	54	54	See NOTE 2
A12.3	30 – 300		For frequencies ≥1 GHz	46	54	50
	300 – 1 000	52				
A12.4	30 – 300	Peak/ 1 MHz	46	66	59	See NOTE 4
	300 – 1 000				52	
A12.5	30 – 950	Peak/ 1 MHz	46	76	46	See NOTE 5
	950 – 2 150			n/a	54	

NOTE 1 Television receivers (analogue or digital), video recorders and PC TV broadcast receiver tuner cards working in channels between 30 MHz and 1 GHz, and digital audio receivers.

NOTE 2 Tuner units (not the LNB) for satellite signal reception.

NOTE 3 Frequency modulation audio receivers and PC tuner cards.

NOTE 4 Frequency modulation car radios.

NOTE 5 Applicable to EUTs with RF modulator output ports (for example DVD equipment, video recorders, camcorders and decoders etc.) designed to connect to TV broadcast receiver tuner ports.

NOTE 6 Testing is required at only one EUT supply voltage and frequency.

NOTE 7 The term 'other' refers to all emissions other than the fundamental and the harmonics of the local oscillator.

NOTE 8 The test shall be performed with the device operating at each reception channel.

NOTE 9 The test shall cover the entire frequency range.

## 5.2. Test Procedures

The EUT was placed on a rotatable table top 0.8 meter above ground.

The EUT was set 3/10 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.

The table was rotated 360 degrees to determine the position of the highest radiation.

The antenna is a half wave dipole and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.

For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.

Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode.

If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.

## 5.3. Typical Test Setup

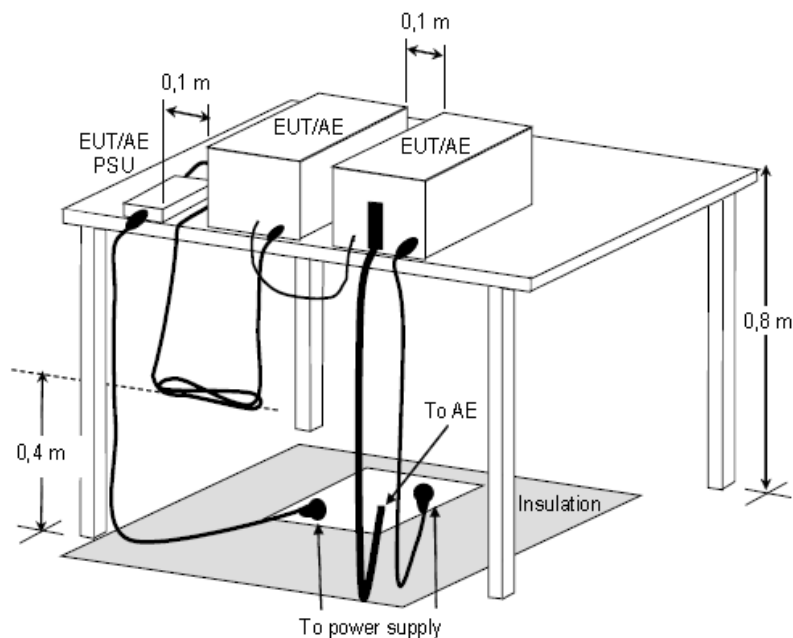


Figure D.8 – Example measurement arrangement for table-top EUT (Radiated emission measurement)



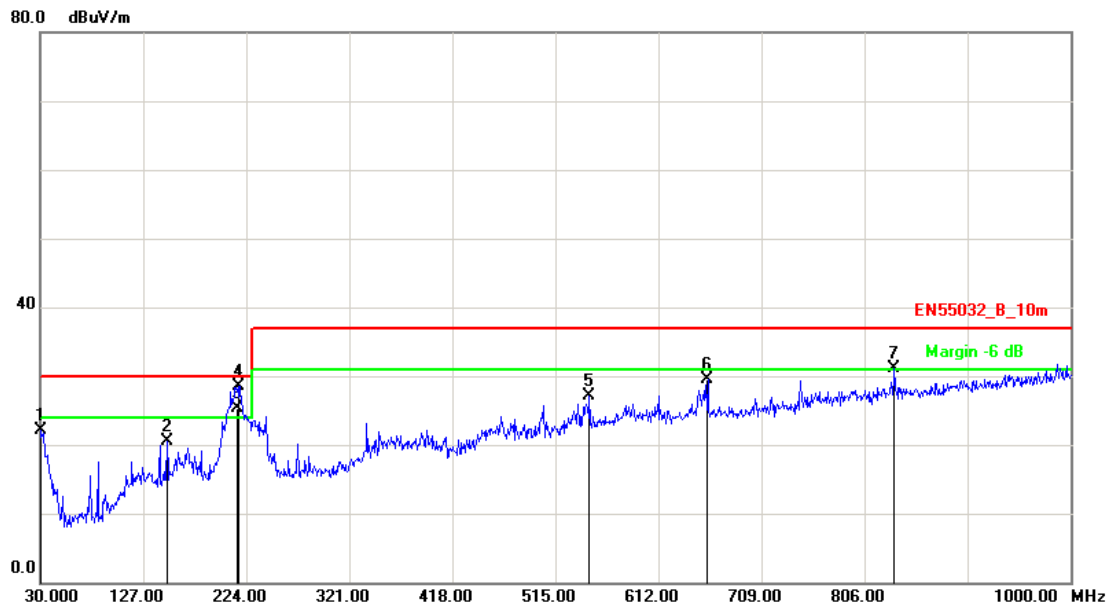
#### 5.4. Measurement Equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMI Test Receiver	R&S	ESCI7	100968	2016.07.21	2017.07.20
Preamplifier	Agilent	87405B	My39500554	2016.03.26	2017.03.25
Preamplifier	Agilent	8449B	3008A02342	2016.03.26	2017.03.25
Bilog Antenna	Sunol Science	JB1	A072414-1	2016.04.16	2017.04.15
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-618	2016.04.16	2017.04.15
Spectrum Analyzer	R&S	FSP40	100324	2016.08.02	2017.08.01
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-001	2016.03.29	2017.03.28
EZ-EMC	Fala	Ver CT3A1	N/A	N/A	N/A



### 5.5. Test Result and Data (30MHz ~ 1000MHz)

Test Mode :	Mode 1: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

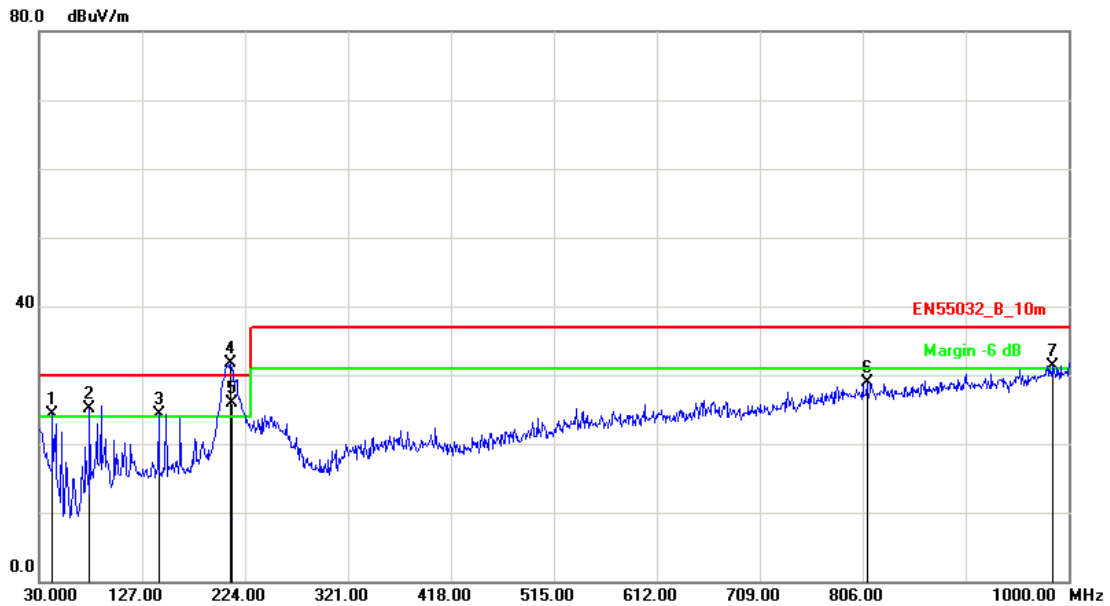


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.26	25.40	22.14	30.00	-7.86	peak	100	33
2	149.3100	-10.62	31.04	20.42	30.00	-9.58	peak	400	44
3	215.8100	-11.51	36.84	25.33	30.00	-4.67	QP	400	17
4	216.2400	-11.55	40.13	28.58	30.00	-1.42	peak	400	17
5	547.0099	-2.10	29.22	27.12	37.00	-9.88	peak	100	302
6	658.5599	-0.13	29.73	29.60	37.00	-7.40	peak	100	19
7	834.1299	2.43	28.59	31.02	37.00	-5.98	peak	100	165

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 110V/60Hz )		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

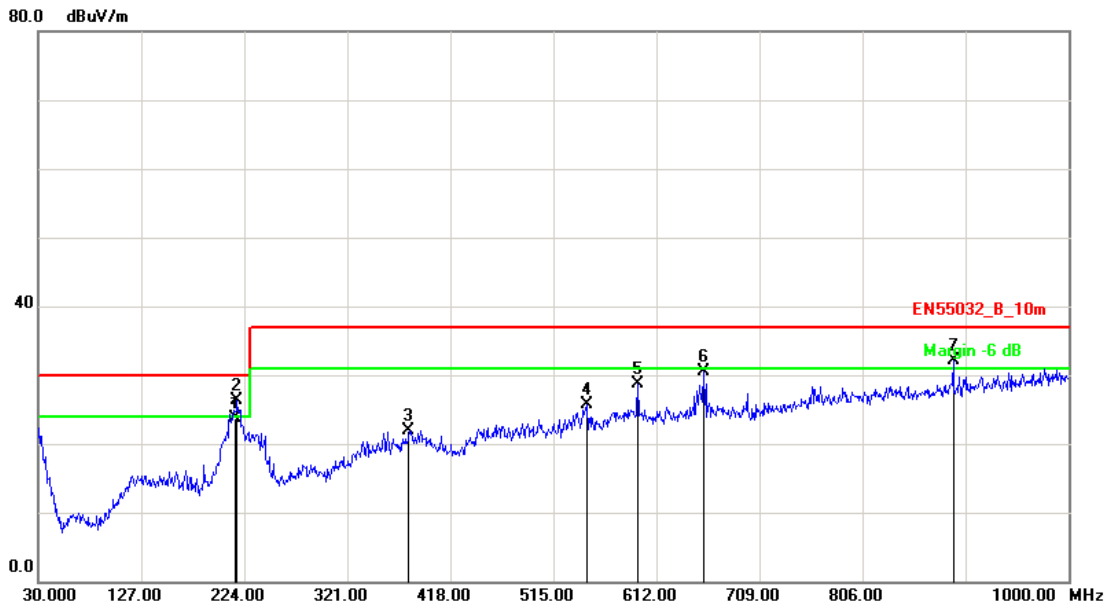


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	42.6100	-11.98	36.35	24.37	30.00	-5.63	peak	100	358
2	77.5300	-16.11	41.25	25.14	30.00	-4.86	peak	100	276
3	142.5200	-10.48	34.75	24.27	30.00	-5.73	peak	100	75
4	210.4200	-10.97	42.59	31.62	30.00	1.62	peak	100	200
5	212.0400	-11.13	37.10	25.97	30.00	-4.03	QP	100	200
6	809.8800	2.20	26.72	28.92	37.00	-8.08	peak	100	100
7	984.4800	4.77	26.51	31.28	37.00	-5.72	peak	400	270

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 4: Full system (HDMI2 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23



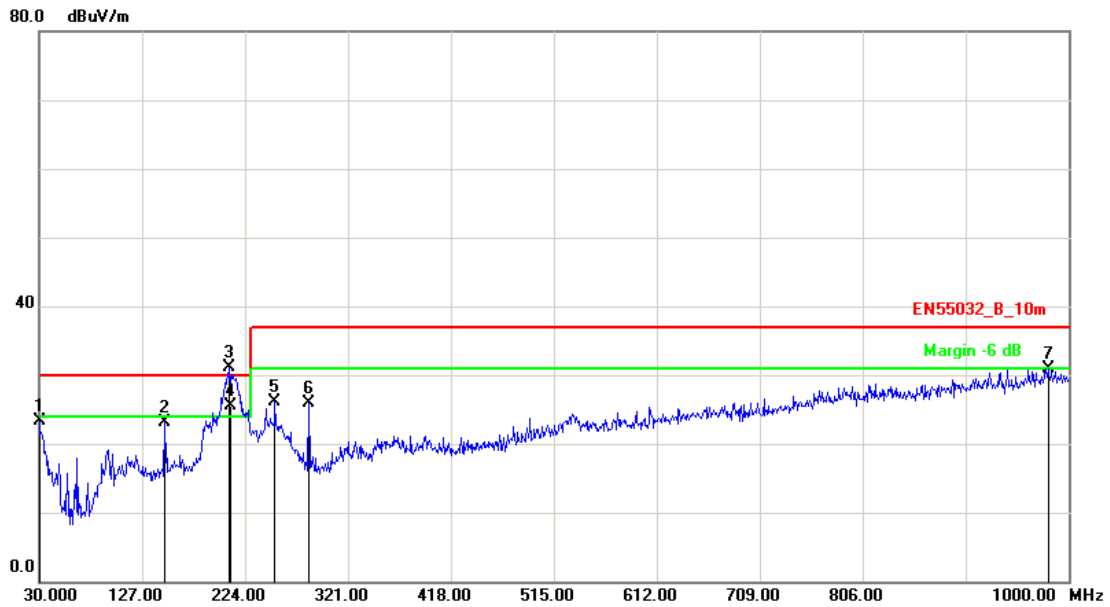
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	215.4400	-11.47	35.16	23.69	30.00	-6.31	QP	100	0
2	217.2100	-11.65	37.87	26.22	30.00	-3.78	peak	100	0
3	379.1999	-6.38	28.36	21.98	37.00	-15.02	peak	100	39
4	547.0099	-2.10	27.87	25.77	37.00	-11.23	peak	400	307
5	594.5399	-1.32	30.10	28.78	37.00	-8.22	peak	400	0
6	656.6200	-0.17	30.58	30.41	37.00	-6.59	peak	400	345
7	891.3600	3.32	28.75	32.07	37.00	-4.93	peak	400	318

Note: Measurement Level = Reading Level + Correct Factor





Test Mode :	Mode 4: Full system (HDMI2 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

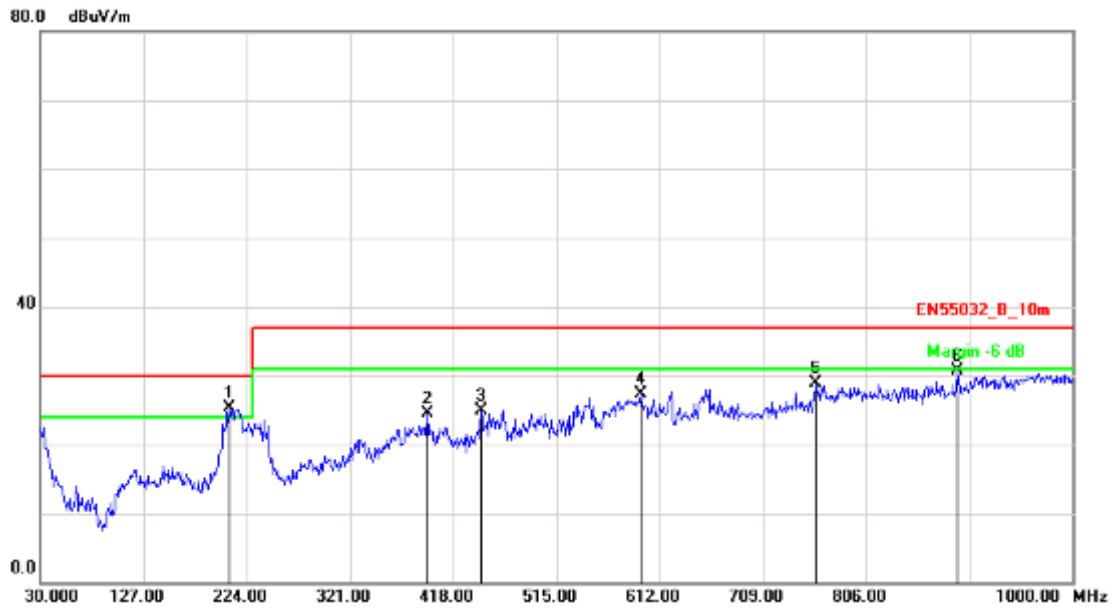


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.26	26.56	23.30	30.00	-6.70	peak	100	70
2	148.3400	-10.60	33.72	23.12	30.00	-6.88	peak	100	112
3	209.4499	-10.87	41.99	31.12	30.00	1.12	peak	100	214
4	210.1200	-10.94	36.52	25.58	30.00	-4.42	QP	100	214
5	252.1300	-10.36	36.49	26.13	37.00	-10.87	peak	100	26
6	284.1400	-8.82	34.73	25.91	37.00	-11.09	peak	100	132
7	980.6000	4.80	26.18	30.98	37.00	-6.02	peak	100	112

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 7: Full system (VGA mode 1920*1080@60Hz) ( 110V/60Hz )		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

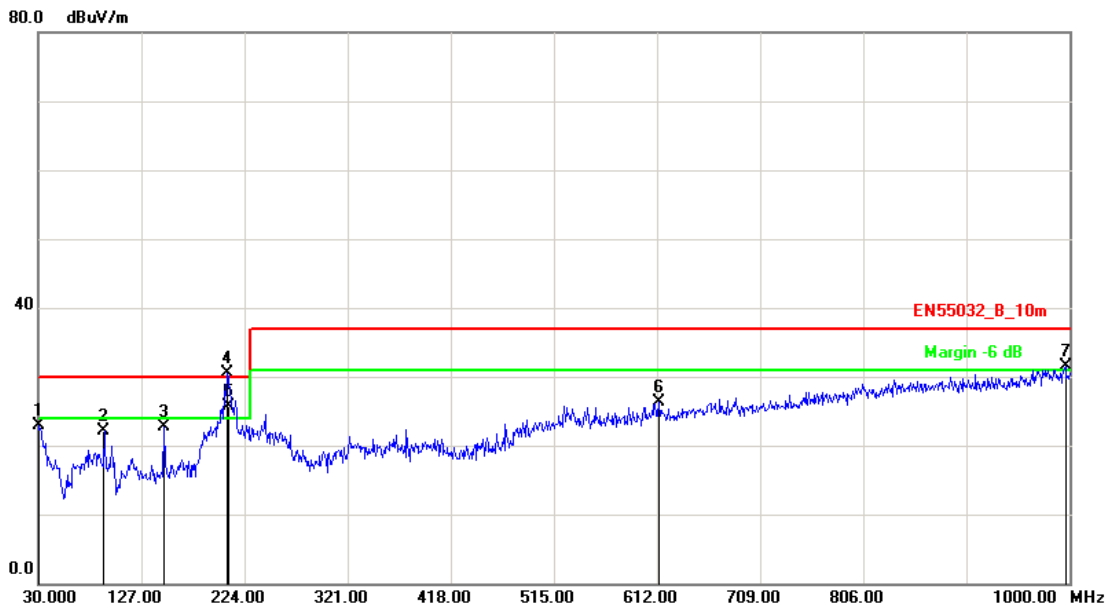


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	207.5099	-10.67	36.03	25.36	30.00	-4.64	peak	100	154
2	393.7500	-5.60	30.02	24.42	37.00	-12.58	peak	400	21
3	444.1899	-4.69	29.67	24.98	37.00	-12.02	peak	400	26
4	594.5398	-1.32	28.72	27.40	37.00	-9.60	peak	100	0
5	758.4699	1.29	27.69	28.98	37.00	-8.02	peak	100	326
6	891.3600	3.32	27.43	30.75	37.00	-6.25	peak	400	97

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 7: Full system (VGA mode 1920*1080@60Hz) ( 110V/60Hz )		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

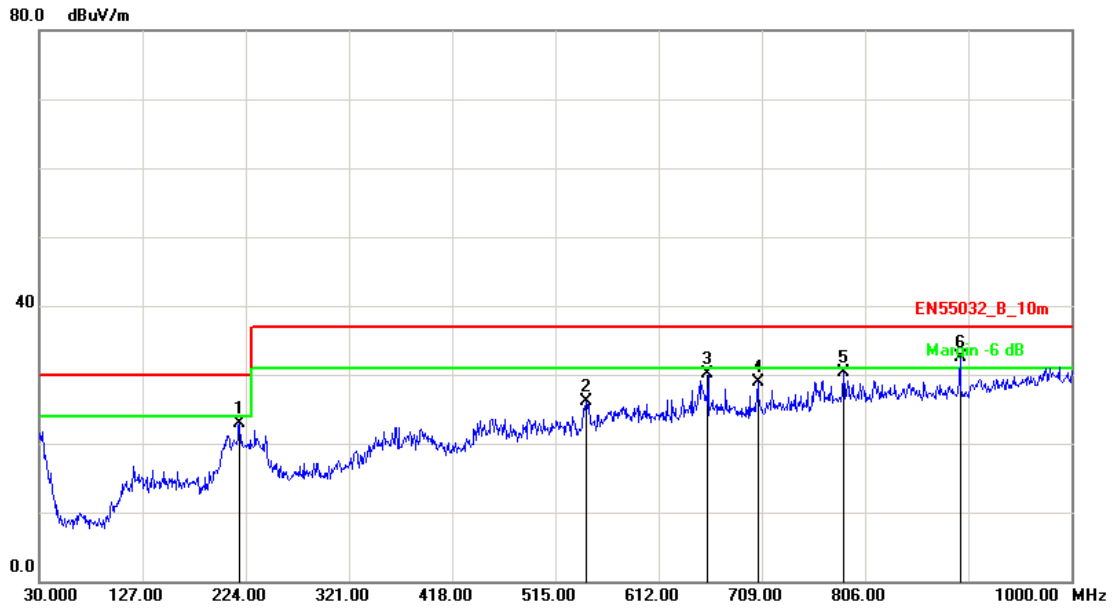


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.9699	-3.96	26.90	22.94	30.00	-7.06	peak	100	251
2	92.0799	-15.79	37.83	22.04	30.00	-7.96	peak	400	138
3	148.3400	-10.60	33.24	22.64	30.00	-7.36	peak	100	79
4	207.5099	-10.67	41.08	30.41	30.00	0.41	peak	100	185
5	208.6700	-10.79	36.52	25.73	30.00	-4.27	QP	100	185
6	613.9400	-1.05	27.32	26.27	37.00	-10.73	peak	100	156
7	996.1200	4.70	26.75	31.45	37.00	-5.55	peak	400	256

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 10: Full system (DP1 mode 2560*1440@144Hz) (110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

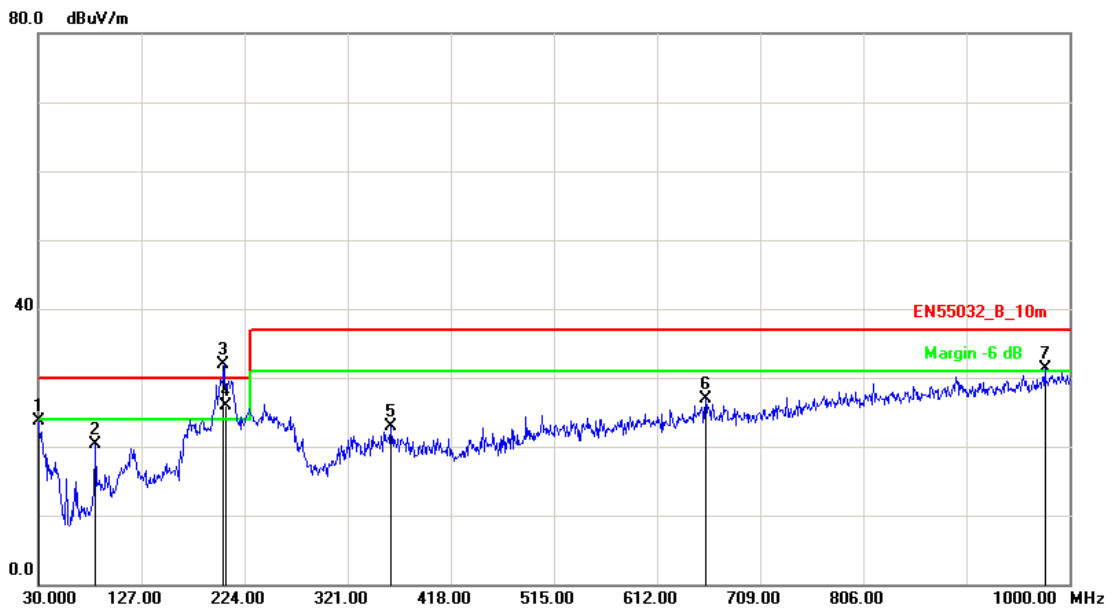


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	218.1800	-11.75	34.57	22.82	30.00	-7.18	peak	100	0
2	544.1000	-2.15	28.26	26.11	37.00	-10.89	peak	400	330
3	658.5599	-0.13	30.14	30.01	37.00	-6.99	peak	100	45
4	705.1200	-0.05	28.90	28.85	37.00	-8.15	peak	400	3
5	785.6299	1.87	28.36	30.23	37.00	-6.77	peak	100	341
6	895.2400	3.40	29.10	32.50	37.00	-4.50	peak	100	330

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 10: Full system (DP1 mode 2560*1440@144Hz) (110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

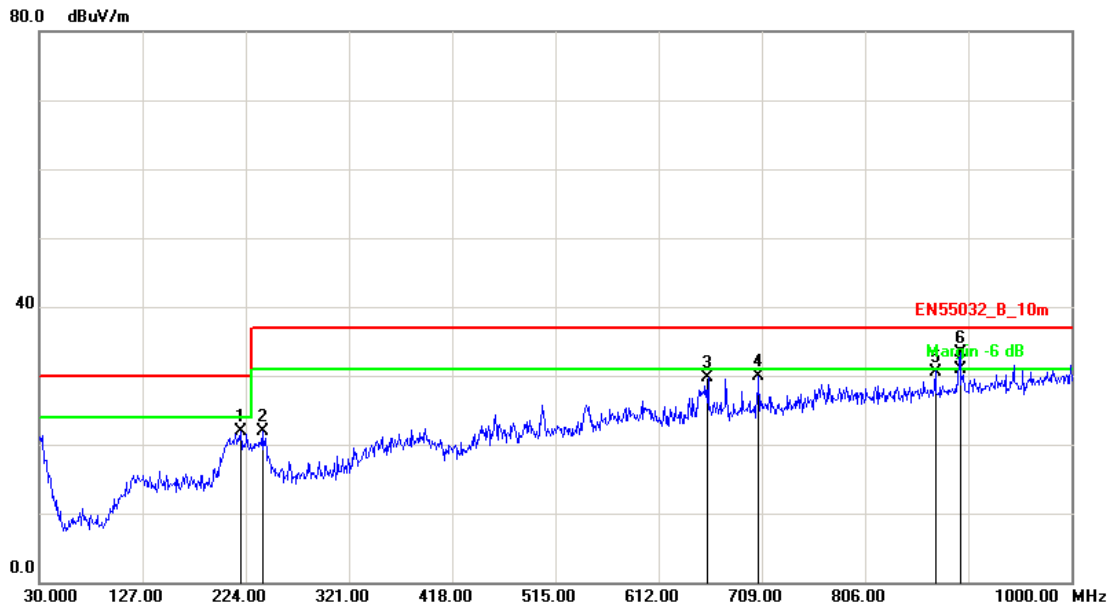


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.26	26.89	23.63	30.00	-6.37	peak	100	63
2	83.3499	-16.26	36.66	20.40	30.00	-9.60	peak	100	127
3	204.5999	-10.38	42.28	31.90	30.00	1.90	peak	100	331
4	206.3500	-10.56	36.42	25.86	30.00	-4.14	QP	100	331
5	361.7400	-6.79	29.70	22.91	37.00	-14.09	peak	100	19
6	657.5900	-0.15	26.98	26.83	37.00	-10.17	peak	100	156
7	976.7200	4.73	26.61	31.34	37.00	-5.66	peak	100	138

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 13: Full system (DP2 mode 2560*1440@144Hz) ( 110V/60Hz )		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

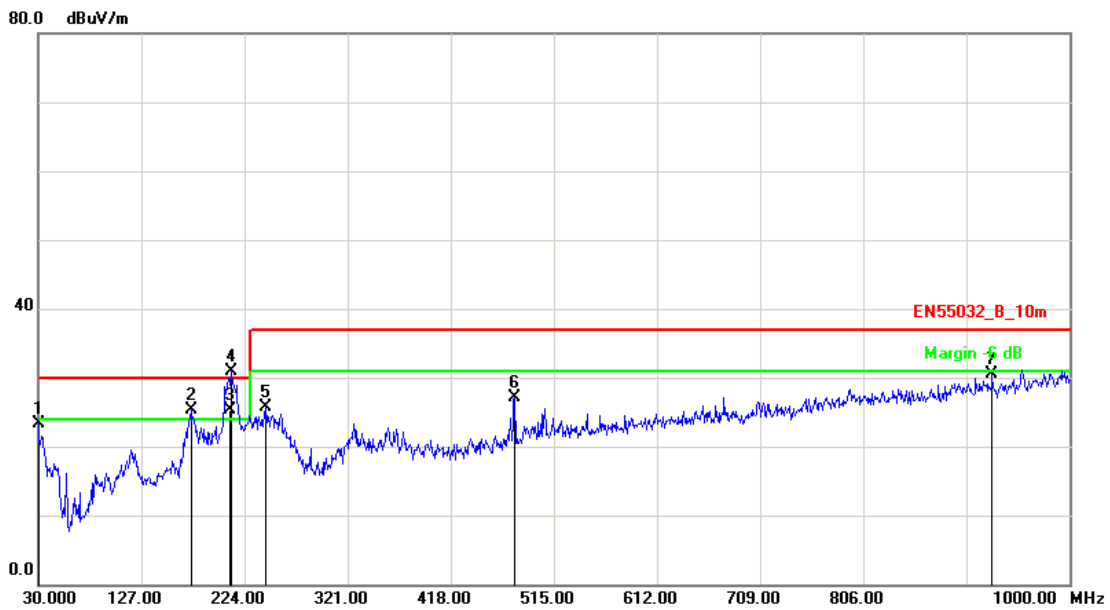


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	219.1500	-11.84	33.66	21.82	30.00	-8.18	peak	100	1
2	239.5200	-10.88	32.80	21.92	37.00	-15.08	peak	100	281
3	658.5599	-0.13	29.92	29.79	37.00	-7.21	peak	100	37
4	706.0900	-0.02	29.83	29.81	37.00	-7.19	peak	100	63
5	871.9600	2.89	27.71	30.60	37.00	-6.40	peak	100	305
6	895.2400	3.40	29.86	33.26	37.00	-3.74	peak	100	48
7	896.3500	3.43	27.41	30.84	37.00	-6.16	QP	100	48

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 13: Full system (DP2 mode 2560*1440@144Hz) ( 110V/60Hz )		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

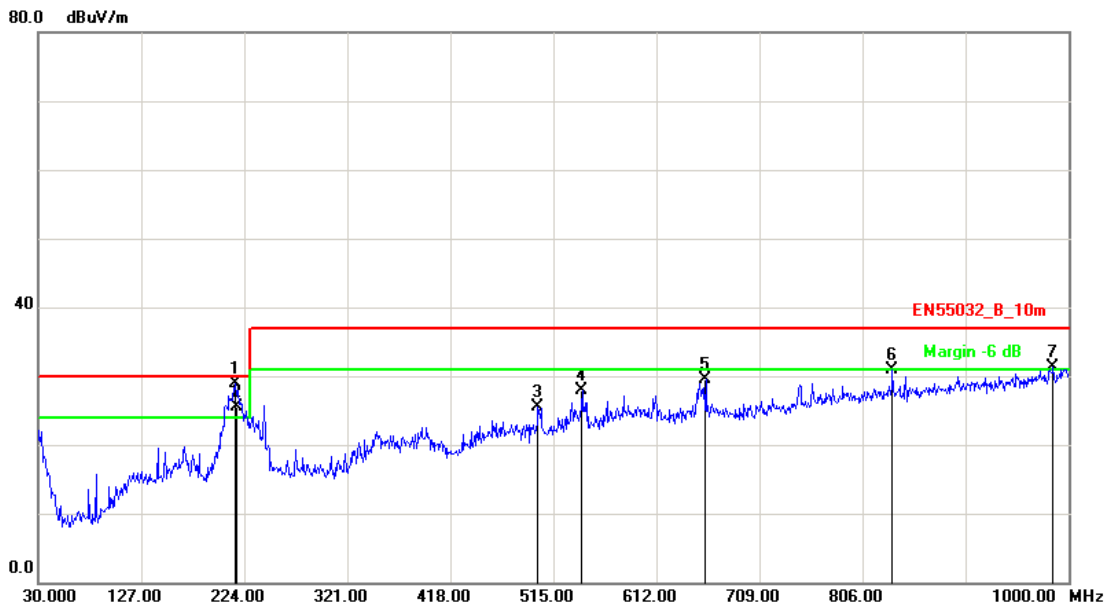


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.26	26.52	23.26	30.00	-6.74	peak	100	106
2	173.5600	-11.28	36.67	25.39	30.00	-4.61	peak	100	99
3	210.3500	-10.96	36.24	25.28	30.00	-4.72	QP	100	361
4	211.3900	-11.06	41.95	30.89	30.00	0.89	peak	100	361
5	244.3700	-10.67	36.43	25.76	37.00	-11.24	peak	100	298
6	478.1400	-3.73	30.87	27.14	37.00	-9.86	peak	100	157
7	927.2500	3.78	26.72	30.50	37.00	-6.50	peak	100	9

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 16: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 230V/50Hz )		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23



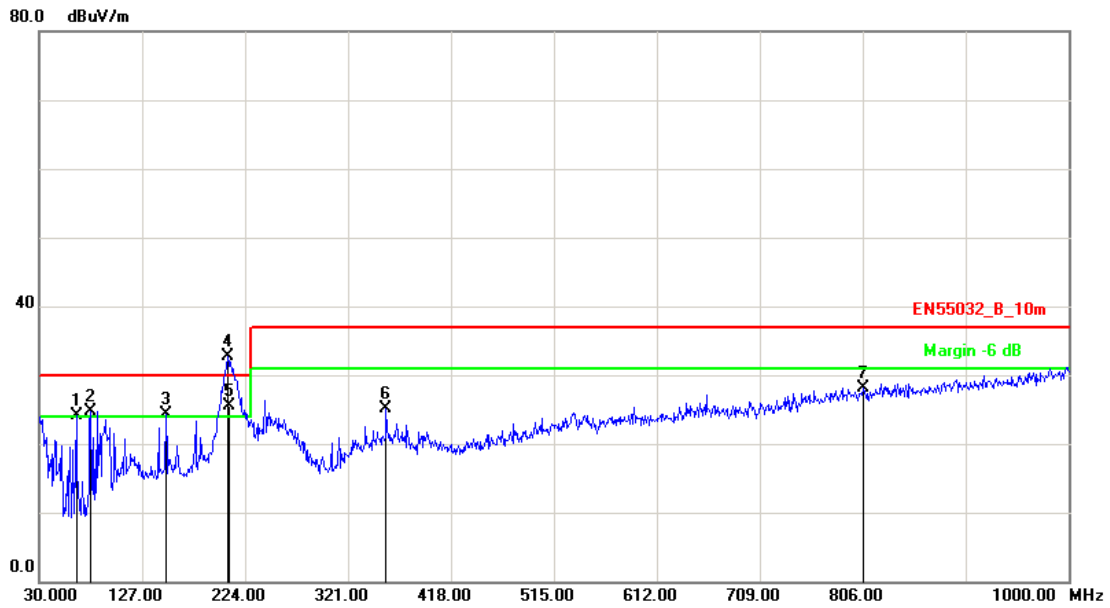
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	215.2700	-11.45	40.40	28.95	30.00	-1.05	peak	400	361
2	216.8100	-11.61	37.14	25.53	30.00	-4.47	QP	400	361
3	500.4499	-3.00	28.55	25.55	37.00	-11.45	peak	100	336
4	542.1599	-2.18	30.09	27.91	37.00	-9.09	peak	100	320
5	658.5599	-0.13	29.65	29.52	37.00	-7.48	peak	100	19
6	834.1299	2.43	28.46	30.89	37.00	-6.11	peak	100	172
7	985.4500	4.77	26.47	31.24	37.00	-5.76	peak	400	73

Note: Measurement Level = Reading Level + Correct Factor





Test Mode :	Mode 16: Full system (HDMI1 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

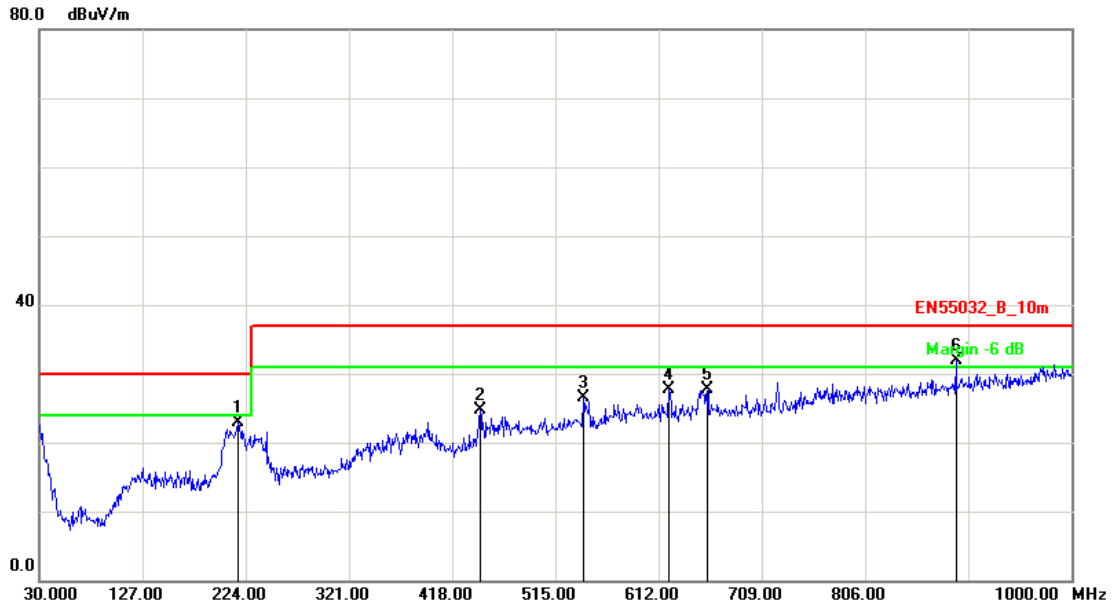


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	64.9200	-16.20	40.38	24.18	30.00	-5.82	peak	100	361
2	78.5000	-16.16	40.83	24.67	30.00	-5.33	peak	400	345
3	149.3100	-10.62	34.89	24.27	30.00	-5.73	peak	100	81
4	207.5100	-10.67	43.42	32.75	30.00	2.75	peak	100	198
5	208.9500	-10.82	36.28	25.46	30.00	-4.54	QP	100	1
6	356.8900	-6.98	32.02	25.04	37.00	-11.96	peak	400	331
7	806.0000	2.14	25.90	28.04	37.00	-8.96	peak	100	196

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 19: Full system (HDMI2 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

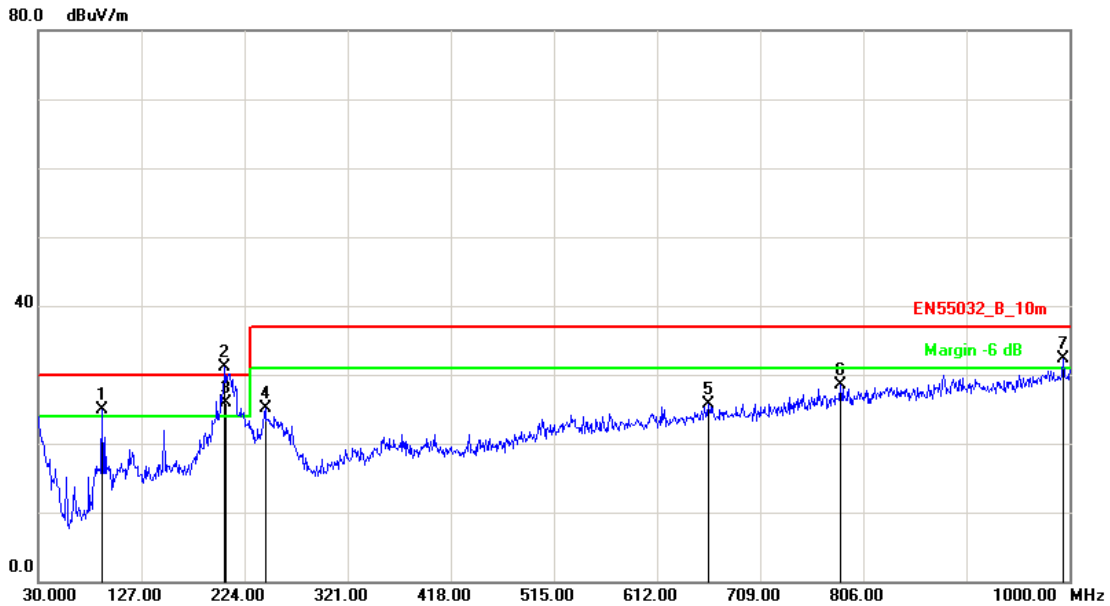


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	216.2400	-11.55	34.55	23.00	30.00	-7.00	peak	100	1
2	444.1899	-4.69	29.35	24.66	37.00	-12.34	peak	400	0
3	541.1900	-2.20	28.74	26.54	37.00	-10.46	peak	100	298
4	621.7000	-0.93	28.57	27.64	37.00	-9.36	peak	100	1
5	658.5599	-0.13	27.82	27.69	37.00	-9.31	peak	400	26
6	891.3600	3.32	28.62	31.94	37.00	-5.06	peak	100	322

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 19: Full system (HDMI2 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

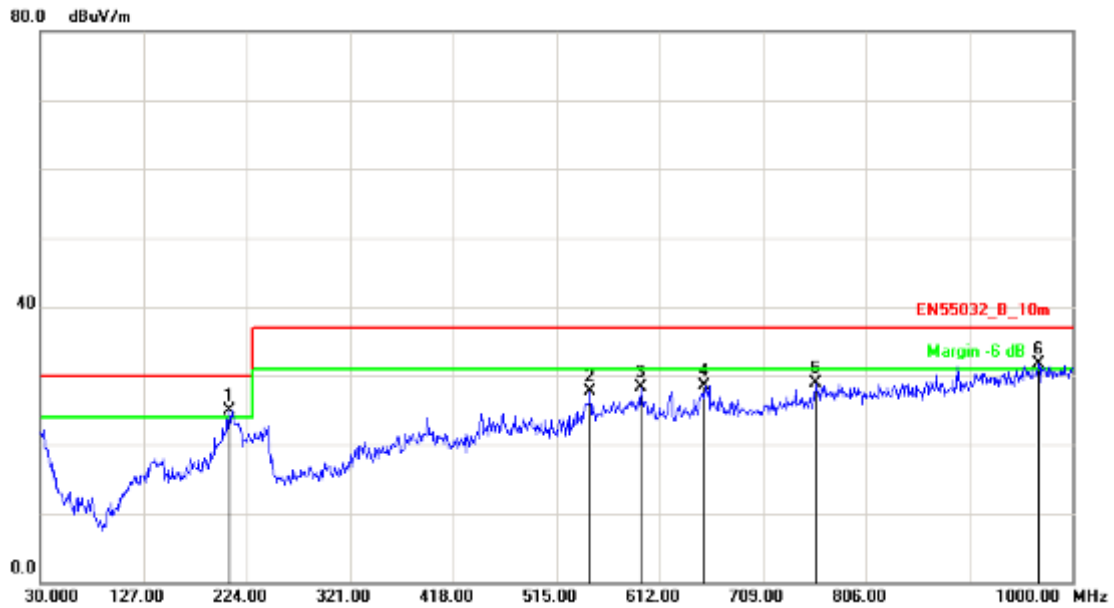


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	90.1400	-16.27	41.08	24.81	30.00	-5.19	peak	100	96
2	205.5699	-10.48	41.51	31.03	30.00	1.03	peak	100	198
3	206.4299	-10.57	36.49	25.92	30.00	-4.08	QP	100	198
4	243.4000	-10.71	35.91	25.20	37.00	-11.80	peak	100	358
5	660.5000	-0.10	25.79	25.69	37.00	-11.31	peak	400	361
6	784.6599	1.86	26.69	28.55	37.00	-8.45	peak	400	50
7	994.1800	4.71	27.53	32.24	37.00	-4.76	peak	100	361

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 22: Full system (VGA mode 1920*1080@60Hz) ( 230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

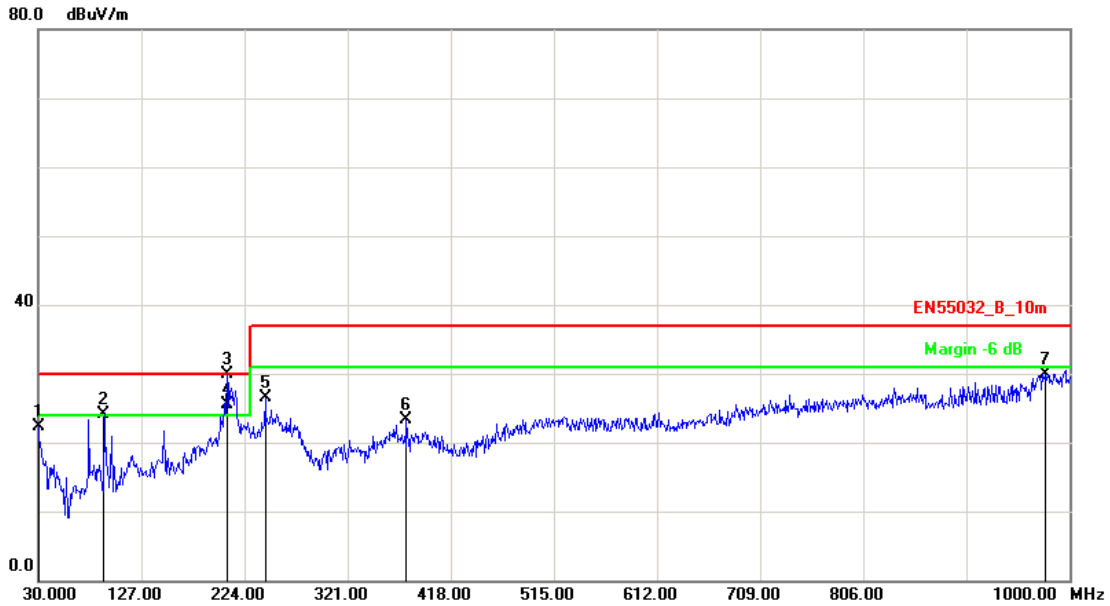


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	207.5099	-10.67	35.53	24.86	30.00	-5.14	peak	100	154
2	547.0099	-2.10	29.81	27.71	37.00	-9.29	peak	100	284
3	594.5398	-1.32	29.72	28.40	37.00	-8.60	peak	100	0
4	654.6798	-0.22	28.72	28.50	37.00	-8.50	peak	100	338
5	758.4699	1.29	27.69	28.98	37.00	-8.02	peak	100	326
6	967.9900	4.53	27.22	31.75	37.00	-5.25	peak	100	216

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 22: Full system (VGA mode 1920*1080@60Hz) ( 230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

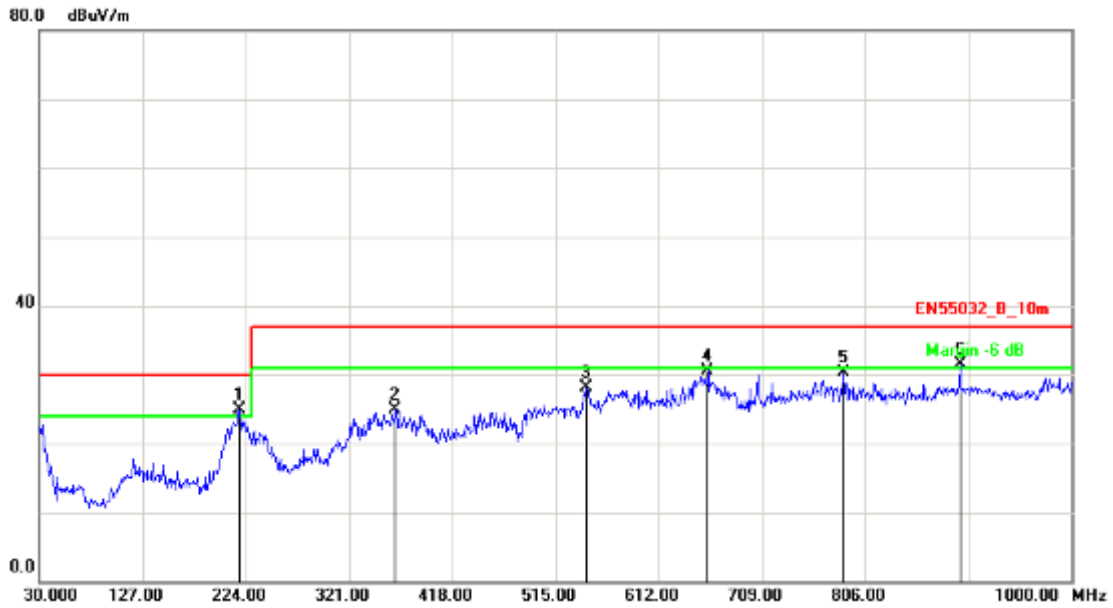


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.26	25.58	22.32	30.00	-7.68	peak	100	68
2	92.0799	-15.79	39.83	24.04	30.00	-5.96	peak	400	138
3	207.5099	-10.67	40.58	29.91	30.00	-0.09	peak	100	185
4	208.3600	-10.76	36.23	25.47	30.00	-4.53	QP	100	185
5	243.4000	-10.71	37.15	26.44	37.00	-10.56	peak	100	302
6	376.2900	-6.45	29.70	23.25	37.00	-13.75	peak	100	361
7	977.6900	4.75	25.23	29.98	37.00	-7.02	peak	100	154

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 25: Full system (DP1 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

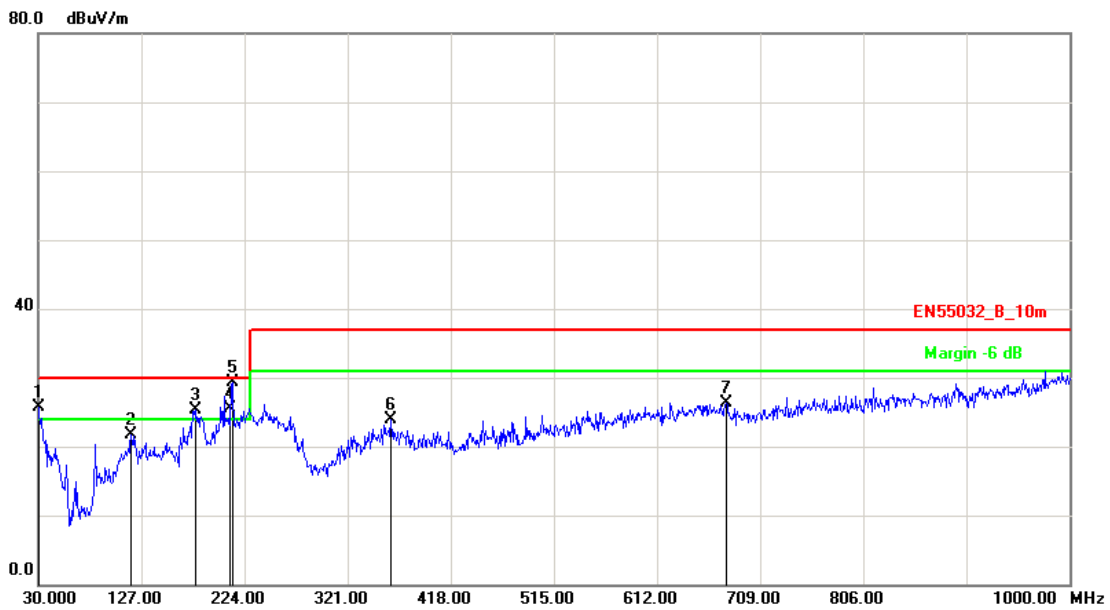


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	218.1800	-11.75	36.57	24.82	30.00	-5.18	peak	400	0
2	364.6499	-6.72	31.61	24.89	37.00	-12.11	peak	400	326
3	544.1000	-2.15	30.26	28.11	37.00	-8.89	peak	400	0
4	658.5599	-0.13	30.64	30.51	37.00	-6.49	peak	100	152
5	785.6299	1.87	28.36	30.23	37.00	-6.77	peak	400	341
6	895.2400	3.40	28.10	31.50	37.00	-5.50	peak	100	214

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 25: Full system (DP1 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

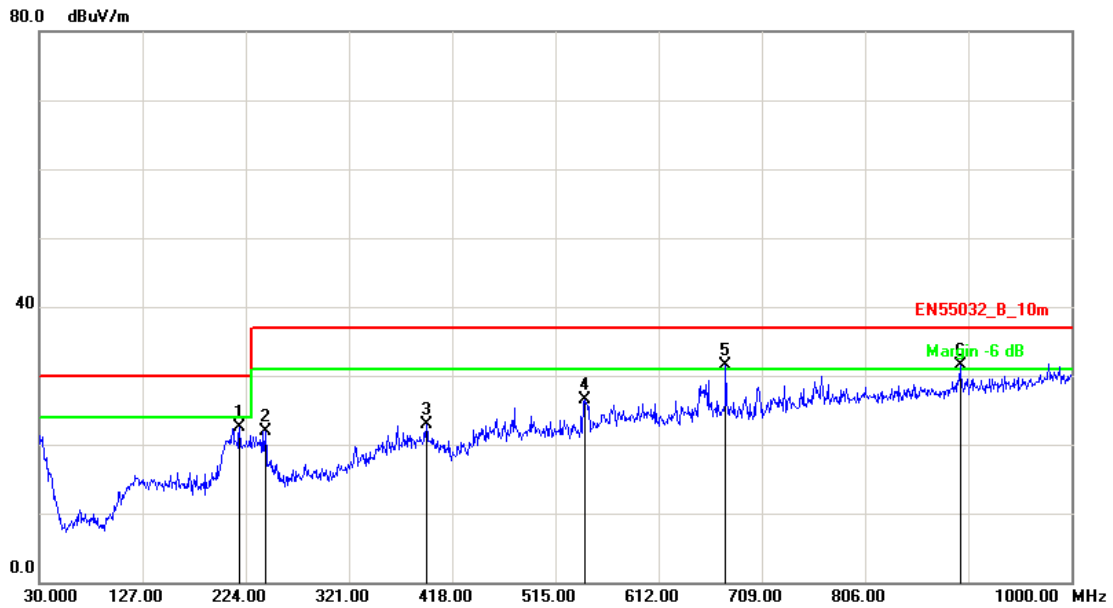


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.26	28.89	25.63	30.00	-4.37	peak	100	360
2	117.2999	-10.12	31.90	21.78	30.00	-8.22	peak	100	360
3	178.4099	-11.43	36.82	25.39	30.00	-4.61	peak	100	349
4	210.5400	-10.98	36.54	25.56	30.00	-4.44	QP	100	225
5	212.3600	-11.16	40.51	29.35	30.00	-0.65	peak	100	225
6	361.7400	-6.79	30.70	23.91	37.00	-13.09	peak	100	0
7	676.9900	-0.13	26.45	26.32	37.00	-10.68	peak	100	205

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 28: Full system (DP2 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23



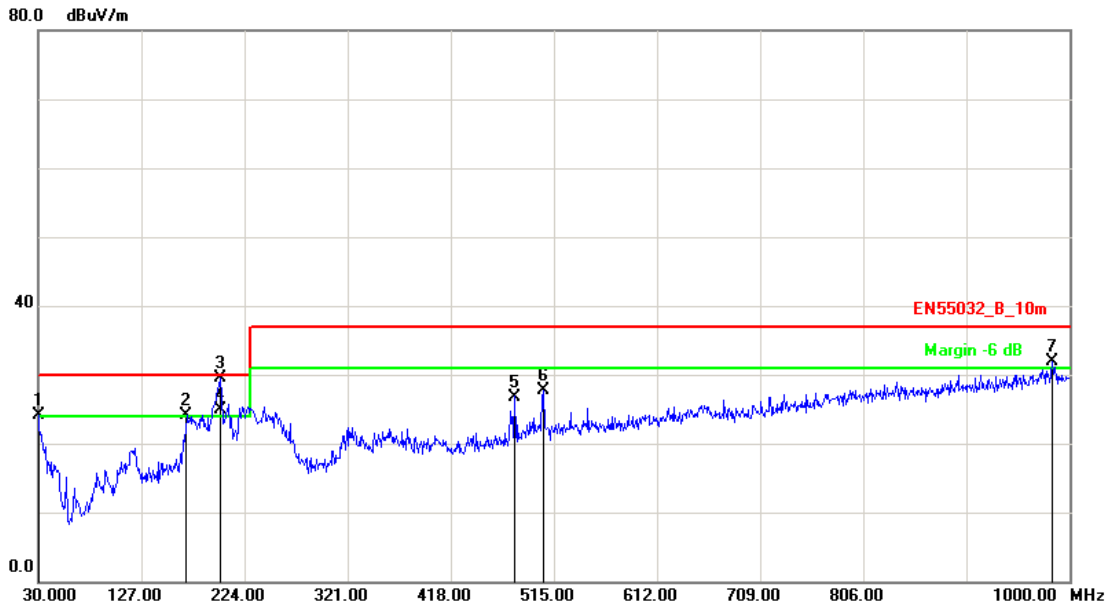
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	218.1800	-11.75	34.16	22.41	30.00	-7.59	peak	400	0
2	242.4300	-10.75	32.74	21.99	37.00	-15.01	peak	100	316
3	393.7500	-5.60	28.41	22.81	37.00	-14.19	peak	100	0
4	543.1299	-2.17	28.69	26.52	37.00	-10.48	peak	100	289
5	675.0499	-0.13	31.61	31.48	37.00	-5.52	peak	400	0
6	895.2400	3.40	28.05	31.45	37.00	-5.55	peak	400	48

Note: Measurement Level = Reading Level + Correct Factor





Test Mode :	Mode 28: Full system (DP2 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	30.0000	-3.26	27.27	24.01	30.00	-5.99	peak	100	274
2	169.6799	-11.16	35.20	24.04	30.00	-5.96	peak	100	106
3	200.7200	-9.99	39.46	29.47	30.00	-0.53	peak	100	342
4	201.3800	-10.06	34.98	24.92	30.00	-5.08	QP	100	342
5	478.1400	-3.73	30.53	26.80	37.00	-10.20	peak	100	207
6	505.3000	-2.91	30.62	27.71	37.00	-9.29	peak	100	30
7	983.5100	4.78	27.15	31.93	37.00	-5.07	peak	100	265

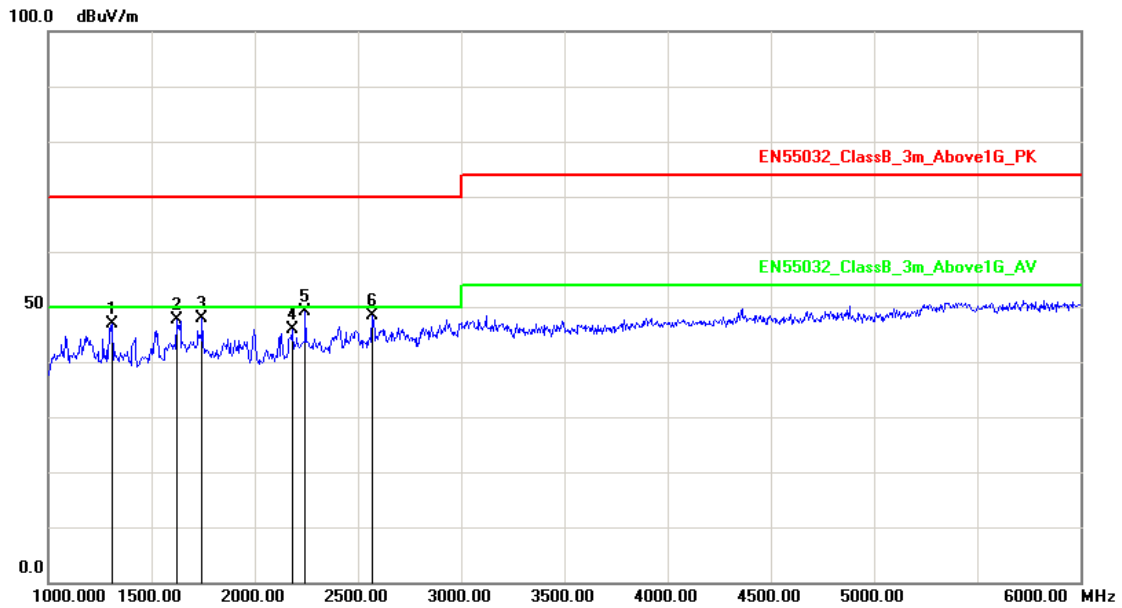
Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Sun Zhang



### 5.6. Test Result and Data (1000MHz ~ 6000MHz)

Test Mode :	Mode 1: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

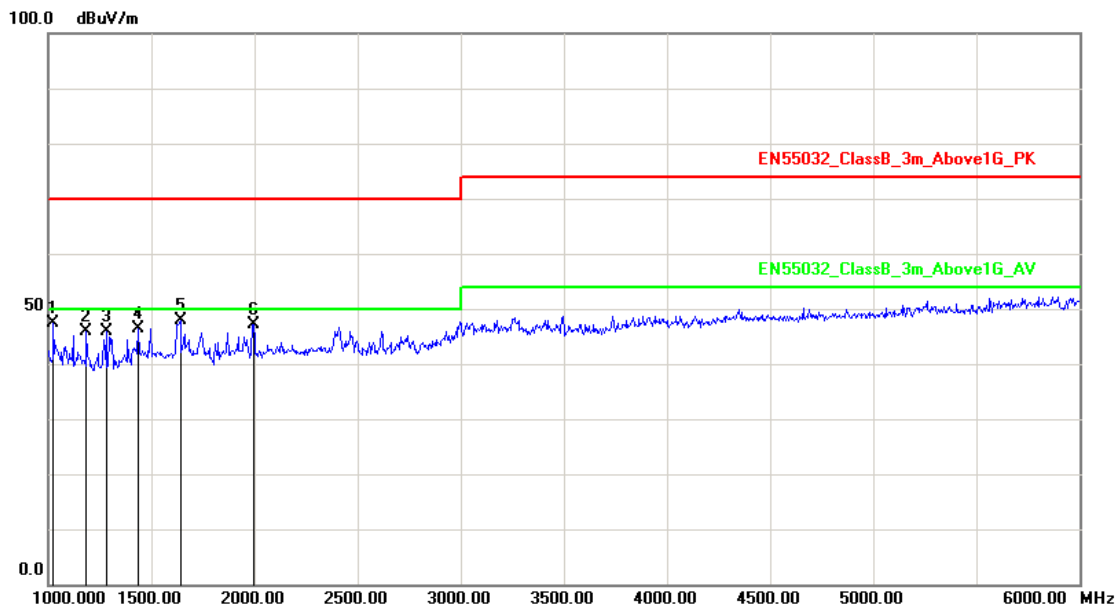


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1310.000	-3.91	50.68	46.77	70.00	-23.23	peak	200	0
2	1620.000	-2.29	49.91	47.62	70.00	-22.38	peak	200	62
3	1745.000	-1.93	49.92	47.99	70.00	-22.01	peak	200	199
4	2180.000	-0.28	46.12	45.84	70.00	-24.16	peak	200	357
5	2245.000	0.05	49.07	49.12	70.00	-20.88	peak	100	148
6	2570.000	1.74	46.65	48.39	70.00	-21.61	peak	200	142

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 1: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

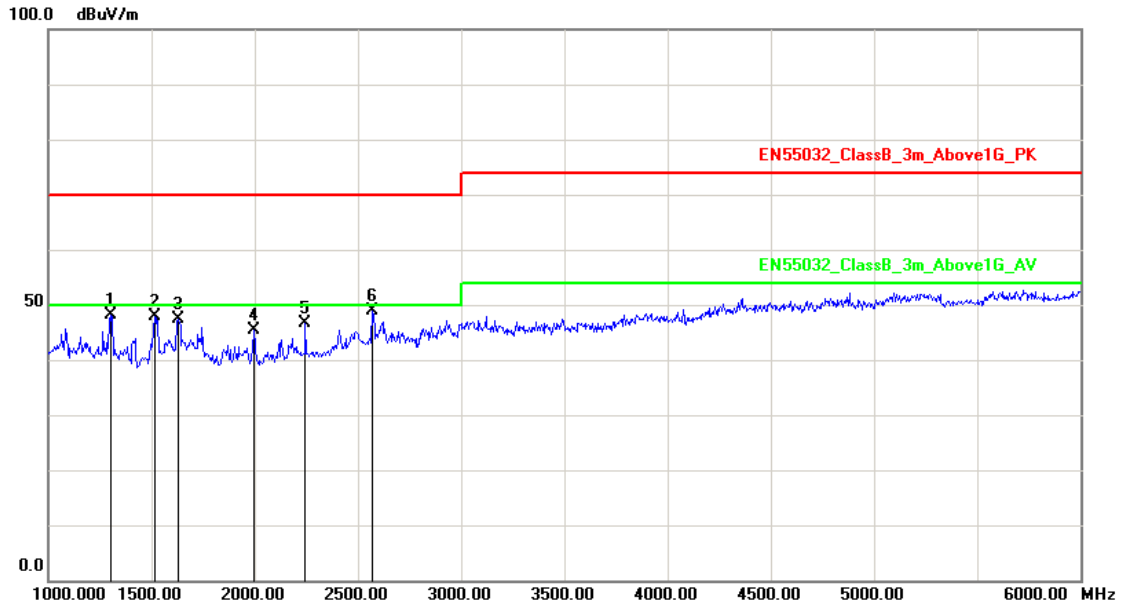


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1025.000	-5.81	53.24	47.43	70.00	-22.57	peak	200	61
2	1185.000	-4.74	50.62	45.88	70.00	-24.12	peak	200	360
3	1280.000	-4.11	50.06	45.95	70.00	-24.05	peak	100	281
4	1435.000	-3.07	49.50	46.43	70.00	-23.57	peak	100	241
5	1640.000	-2.24	50.18	47.94	70.00	-22.06	peak	100	55
6	1995.000	-1.21	48.45	47.24	70.00	-22.76	peak	100	298

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 4: Full system (HDMI2 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

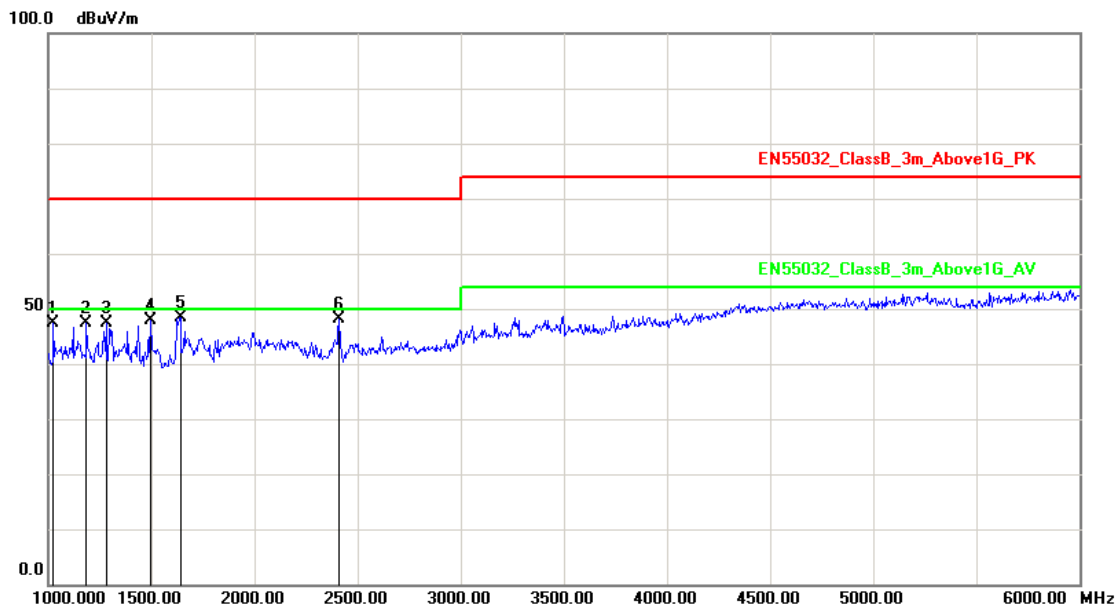


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1300.000	-3.98	52.00	48.02	70.00	-21.98	peak	100	0
2	1515.000	-2.60	50.41	47.81	70.00	-22.19	peak	200	196
3	1630.000	-2.27	49.63	47.36	70.00	-22.64	peak	200	324
4	1995.000	-1.21	46.52	45.31	70.00	-24.69	peak	200	241
5	2245.000	0.05	46.57	46.62	70.00	-23.38	peak	100	158
6	2570.000	1.74	47.15	48.89	70.00	-21.11	peak	200	0

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 4: Full system (HDMI2 mode 2560*1440@75@75Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

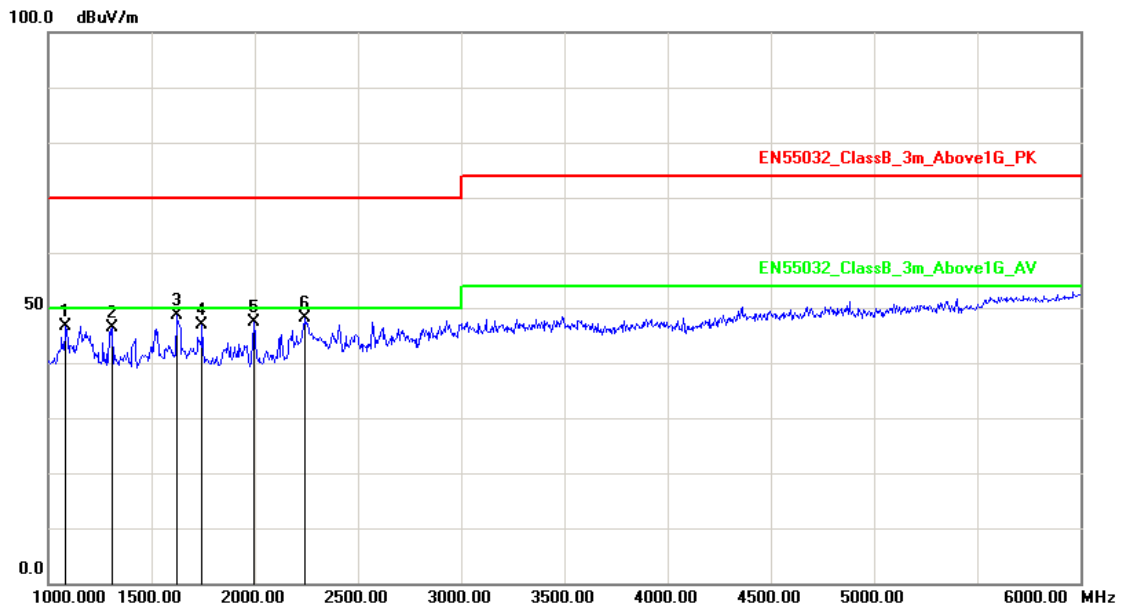


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1025.000	-5.81	53.24	47.43	70.00	-22.57	peak	200	38
2	1185.000	-4.74	52.12	47.38	70.00	-22.62	peak	100	261
3	1280.000	-4.11	51.56	47.45	70.00	-22.55	peak	100	111
4	1495.000	-2.67	50.50	47.83	70.00	-22.17	peak	200	0
5	1640.000	-2.24	50.68	48.44	70.00	-21.56	peak	100	34
6	2410.000	0.89	47.26	48.15	70.00	-21.85	peak	100	281

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 7: Full system (VGA mode 1920*1080@60Hz) ( 110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

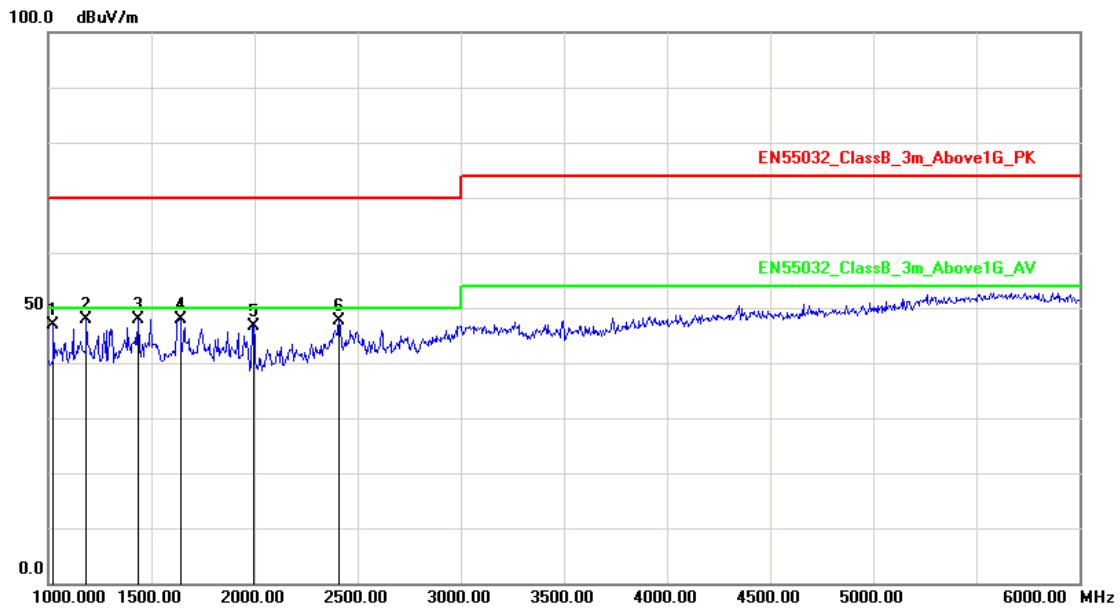


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1085.000	-5.41	52.12	46.71	70.00	-23.29	peak	200	285
2	1310.000	-3.91	50.18	46.27	70.00	-23.73	peak	200	0
3	1620.000	-2.29	50.91	48.62	70.00	-21.38	peak	100	111
4	1745.000	-1.93	48.92	46.99	70.00	-23.01	peak	200	261
5	1995.000	-1.21	48.52	47.31	70.00	-22.69	peak	100	326
6	2245.000	0.05	48.07	48.12	70.00	-21.88	peak	200	0

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 7: Full system (VGA mode 1920*1080@60Hz) ( 110V/60Hz )		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

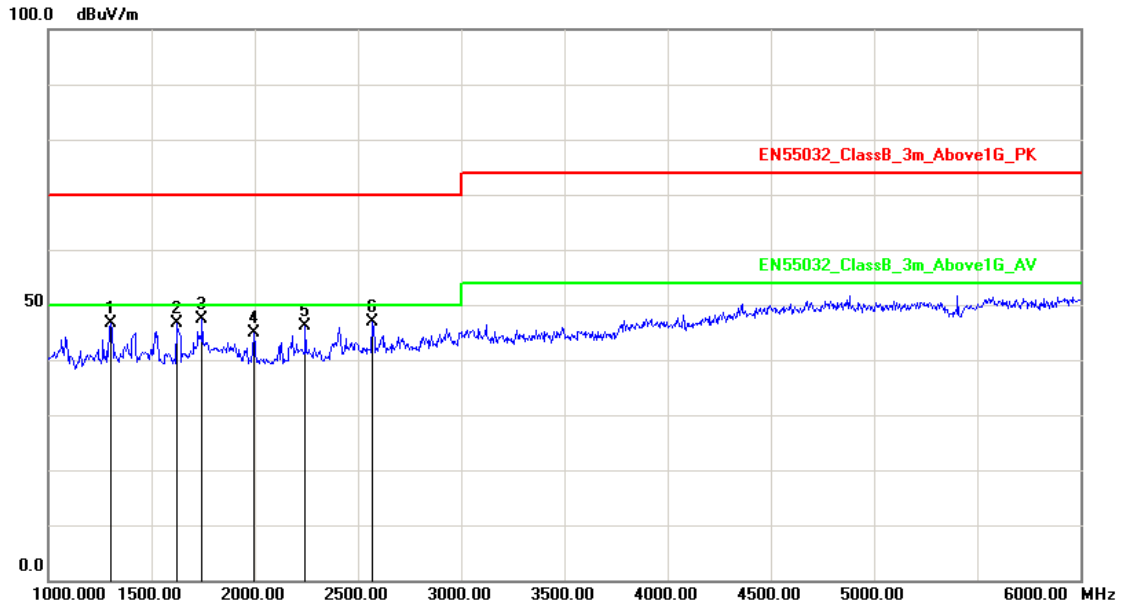


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1025.000	-5.81	52.74	46.93	70.00	-23.07	peak	100	360
2	1185.000	-4.74	52.62	47.88	70.00	-22.12	peak	200	360
3	1435.000	-3.07	51.00	47.93	70.00	-22.07	peak	200	187
4	1640.000	-2.24	50.18	47.94	70.00	-22.06	peak	200	214
5	1995.000	-1.21	47.95	46.74	70.00	-23.26	peak	100	115
6	2410.000	0.89	46.76	47.65	70.00	-22.35	peak	100	49

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 10: Full system (DP1 mode 2560*1440@144Hz) (110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23



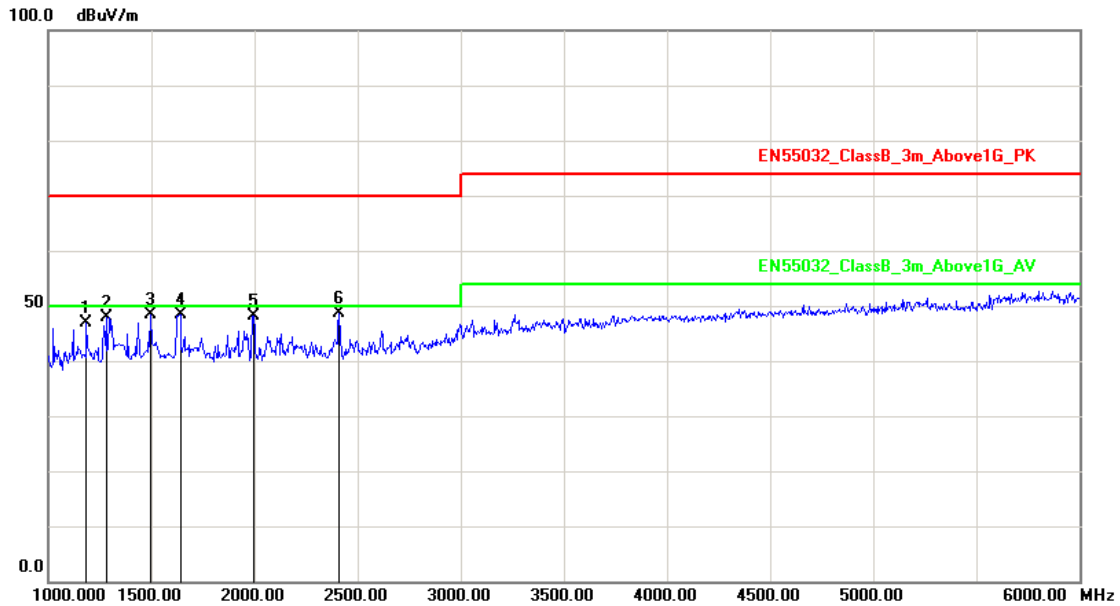
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1300.000	-3.98	50.50	46.52	70.00	-23.48	peak	200	355
2	1620.000	-2.29	48.91	46.62	70.00	-23.38	peak	200	261
3	1745.000	-1.93	49.42	47.49	70.00	-22.51	peak	100	355
4	1995.000	-1.21	46.02	44.81	70.00	-25.19	peak	200	97
5	2245.000	0.05	46.07	46.12	70.00	-23.88	peak	100	241
6	2570.000	1.74	45.15	46.89	70.00	-23.11	peak	200	0

Note: Measurement Level = Reading Level + Correct Factor





Test Mode :	Mode 10: Full system (DP1 mode 2560*1440@144Hz) (110V/60Hz)		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

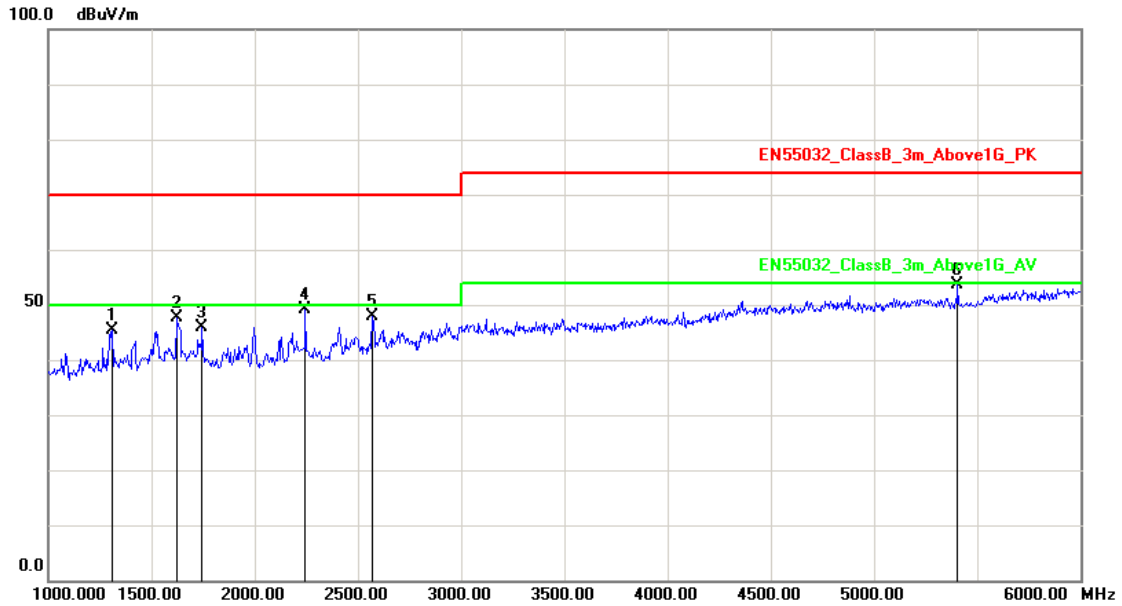


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1185.000	-4.74	51.62	46.88	70.00	-23.12	peak	200	49
2	1280.000	-4.11	52.06	47.95	70.00	-22.05	peak	200	251
3	1495.000	-2.67	51.00	48.33	70.00	-21.67	peak	100	360
4	1640.000	-2.24	50.68	48.44	70.00	-21.56	peak	100	360
5	1995.000	-1.21	49.45	48.24	70.00	-21.76	peak	100	0
6	2410.000	0.89	47.76	48.65	70.00	-21.35	peak	200	177

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 13: Full system (DP2 mode 2560*1440@144Hz) ( 110V/60Hz )		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

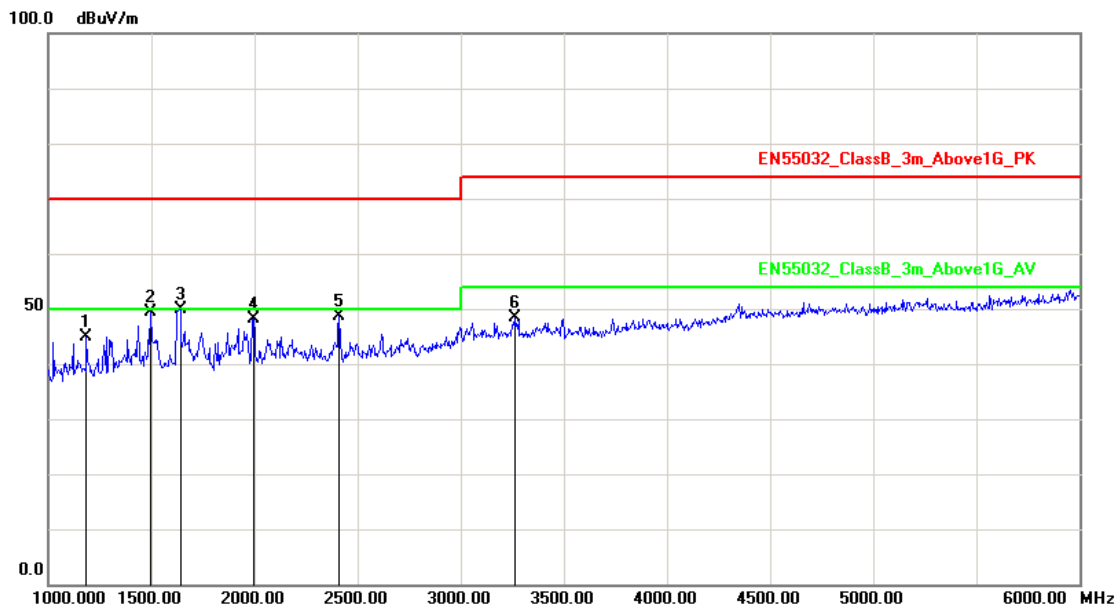


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1310.000	-3.91	49.18	45.27	70.00	-24.73	peak	100	308
2	1620.000	-2.29	49.91	47.62	70.00	-22.38	peak	100	37
3	1745.000	-1.93	47.92	45.99	70.00	-24.01	peak	100	0
4	2245.000	0.05	49.07	49.12	70.00	-20.88	peak	200	287
5	2570.000	1.74	46.15	47.89	70.00	-22.11	peak	100	8
6	5405.000	11.96	41.56	53.52	74.00	-20.48	peak	200	322

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 13: Full system (DP2 mode 2560*1440@144Hz) ( 110V/60Hz )		
AC Power :	AC 110V/60Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

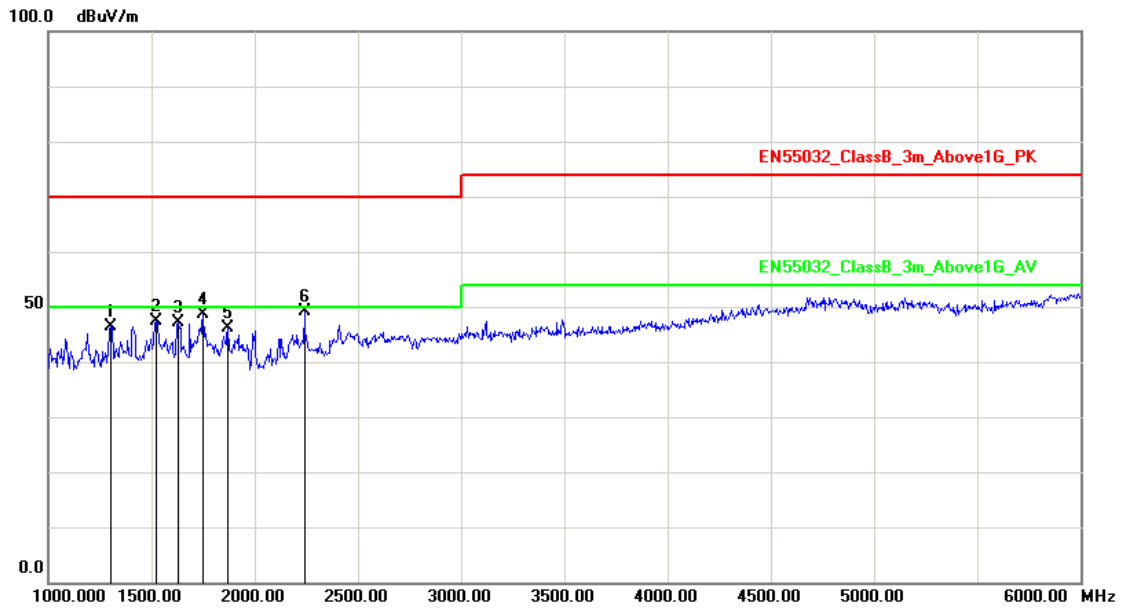


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1185.000	-4.74	49.62	44.88	70.00	-25.12	peak	100	205
2	1495.000	-2.67	52.00	49.33	70.00	-20.67	peak	100	361
3	1640.000	-2.24	52.18	49.94	70.00	-20.06	peak	159	360
4	1995.000	-1.21	49.45	48.24	70.00	-21.76	peak	200	148
5	2410.000	0.89	47.76	48.65	70.00	-21.35	peak	100	233
6	3260.000	4.92	43.58	48.50	74.00	-25.50	peak	100	21

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 16: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 230V/50Hz )		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

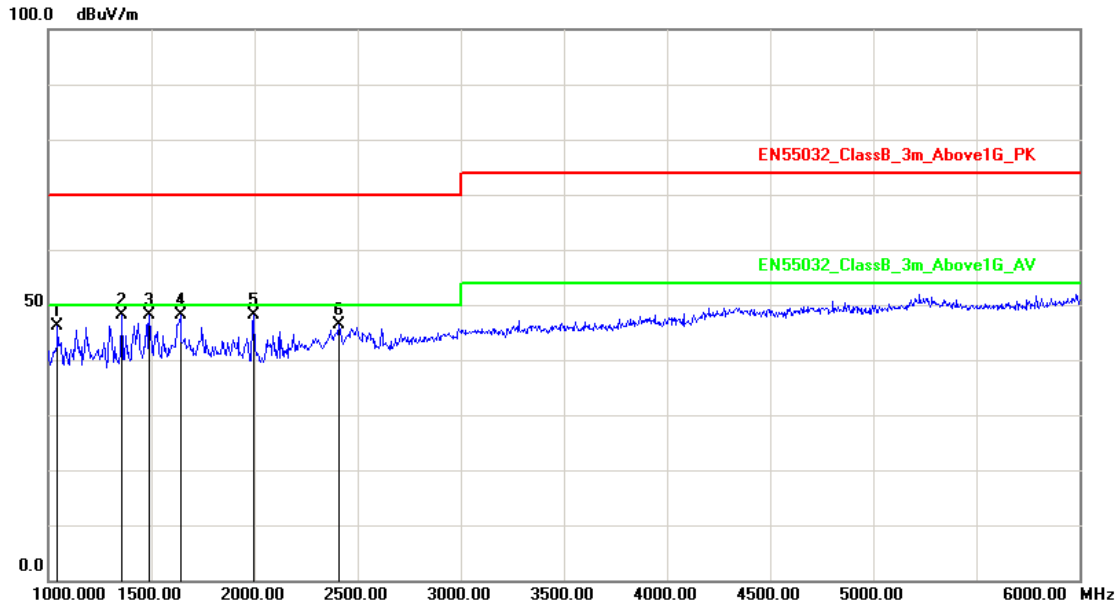


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1300.000	-3.98	50.42	46.44	70.00	-23.56	peak	200	41
2	1520.000	-2.58	49.88	47.30	70.00	-22.70	peak	200	271
3	1630.000	-2.27	49.28	47.01	70.00	-22.99	peak	100	189
4	1750.000	-1.92	50.49	48.57	70.00	-21.43	peak	200	51
5	1870.000	-1.57	47.65	46.08	70.00	-23.92	peak	100	136
6	2240.000	0.02	49.01	49.03	70.00	-20.97	peak	200	200

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 16: Full system (HDMI1 mode 2560*1440@75@75Hz) ( 230V/50Hz )		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

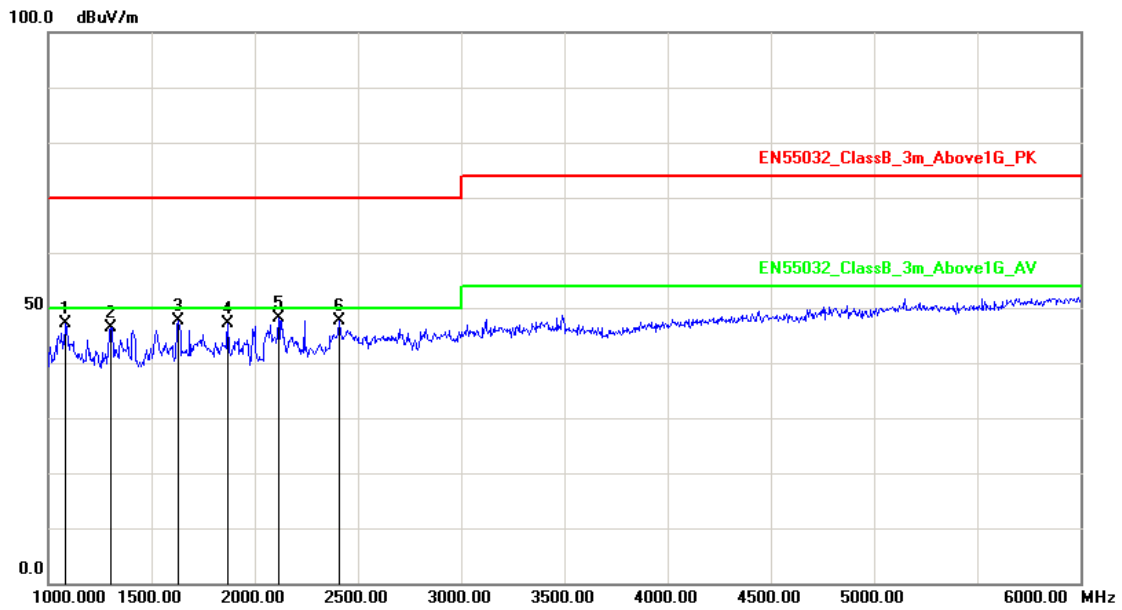


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1045.000	-5.68	51.75	46.07	70.00	-23.93	peak	200	12
2	1355.000	-3.61	51.75	48.14	70.00	-21.86	peak	100	168
3	1490.000	-2.71	50.95	48.24	70.00	-21.76	peak	100	157
4	1640.000	-2.24	50.32	48.08	70.00	-21.92	peak	200	188
5	1995.000	-1.21	49.34	48.13	70.00	-21.87	peak	200	0
6	2410.000	0.89	45.56	46.45	70.00	-23.55	peak	100	81

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 19: Full system (HDMI2 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

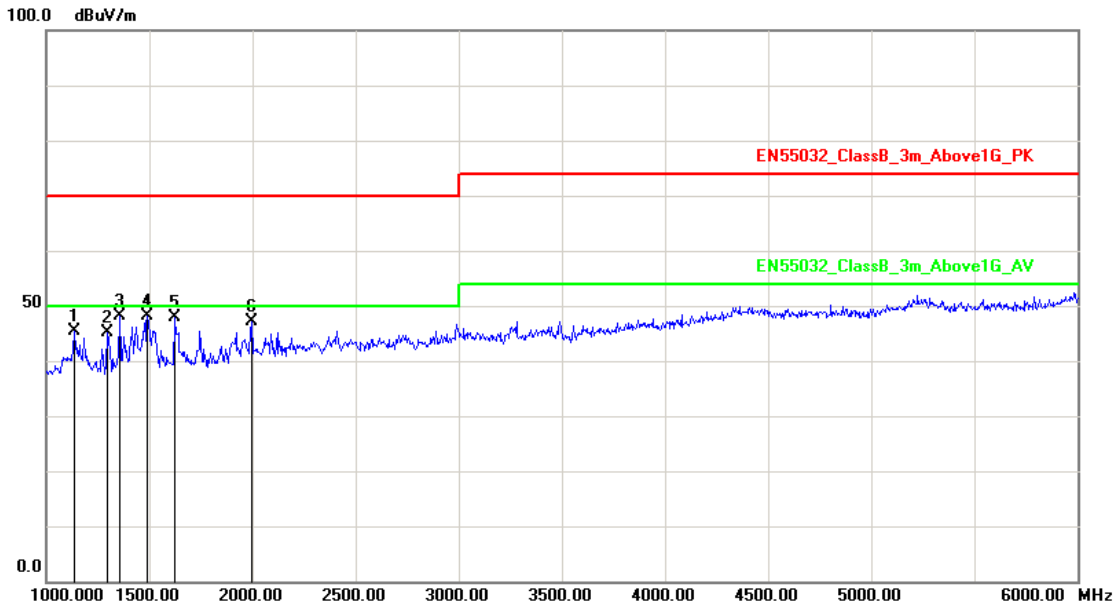


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1085.000	-5.41	52.50	47.09	70.00	-22.91	peak	100	157
2	1300.000	-3.98	50.42	46.44	70.00	-23.56	peak	100	0
3	1630.000	-2.27	49.78	47.51	70.00	-22.49	peak	200	12
4	1870.000	-1.57	48.65	47.08	70.00	-22.92	peak	200	81
5	2115.000	-0.61	48.70	48.09	70.00	-21.91	peak	100	329
6	2410.000	0.89	46.76	47.65	70.00	-22.35	peak	100	0

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 19: Full system (HDMI2 mode 2560*1440@75@75Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

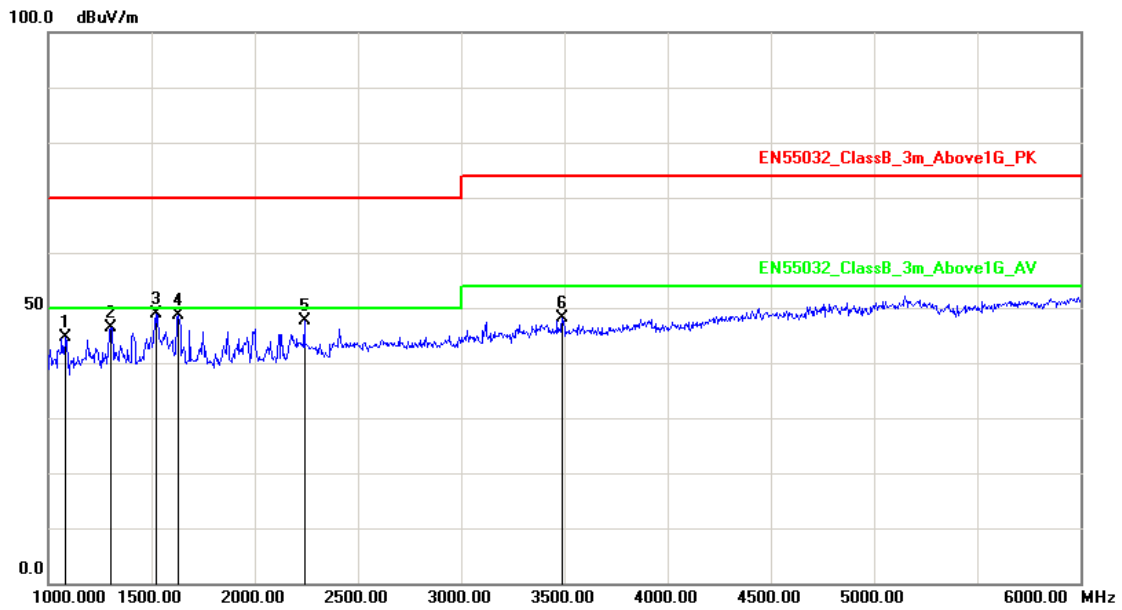


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1135.000	-5.08	50.41	45.33	70.00	-24.67	peak	100	94
2	1295.000	-4.01	49.24	45.23	70.00	-24.77	peak	200	172
3	1355.000	-3.61	51.75	48.14	70.00	-21.86	peak	100	133
4	1490.000	-2.71	50.95	48.24	70.00	-21.76	peak	100	0
5	1625.000	-2.28	50.10	47.82	70.00	-22.18	peak	200	288
6	1995.000	-1.21	48.34	47.13	70.00	-22.87	peak	100	51

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 22: Full system (VGA mode 1920*1080@60Hz) ( 230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23



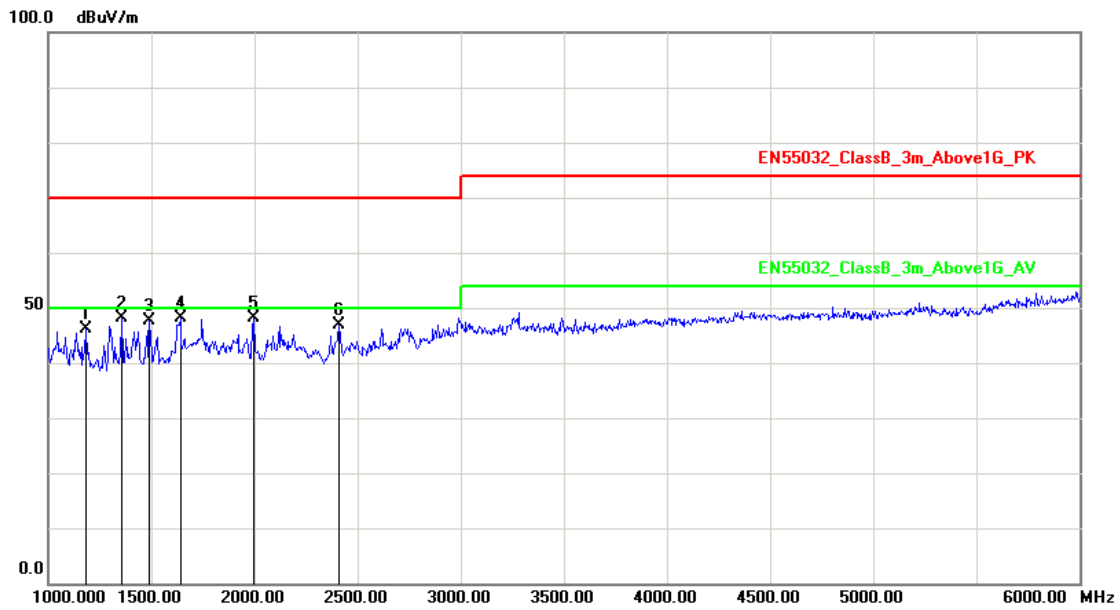
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1085.000	-5.41	50.00	44.59	70.00	-25.41	peak	100	0
2	1300.000	-3.98	50.42	46.44	70.00	-23.56	peak	200	41
3	1520.000	-2.58	51.38	48.80	70.00	-21.20	peak	200	158
4	1630.000	-2.27	50.78	48.51	70.00	-21.49	peak	200	0
5	2240.000	0.02	47.51	47.53	70.00	-22.47	peak	100	326
6	3490.000	5.63	42.62	48.25	74.00	-25.75	peak	200	19

Note: Measurement Level = Reading Level + Correct Factor





Test Mode :	Mode 22: Full system (VGA mode 1920*1080@60Hz) ( 230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

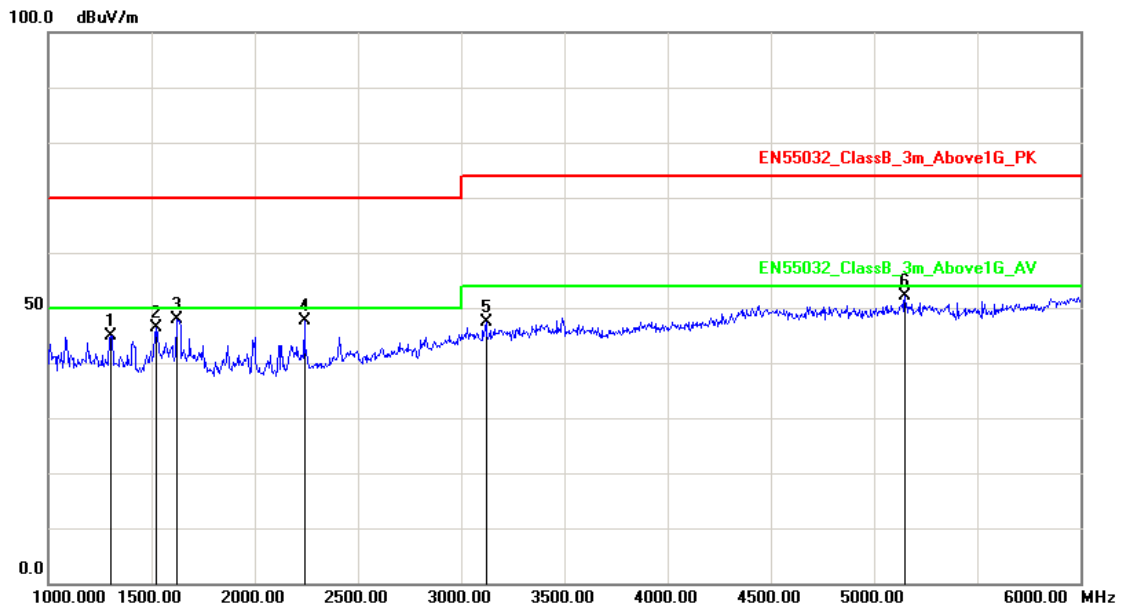


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1180.000	-4.78	50.84	46.06	70.00	-23.94	peak	100	0
2	1355.000	-3.61	51.75	48.14	70.00	-21.86	peak	200	157
3	1490.000	-2.71	50.45	47.74	70.00	-22.26	peak	200	326
4	1640.000	-2.24	50.32	48.08	70.00	-21.92	peak	100	0
5	1995.000	-1.21	49.34	48.13	70.00	-21.87	peak	200	241
6	2410.000	0.89	46.06	46.95	70.00	-23.05	peak	200	198

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 25: Full system (DP1 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

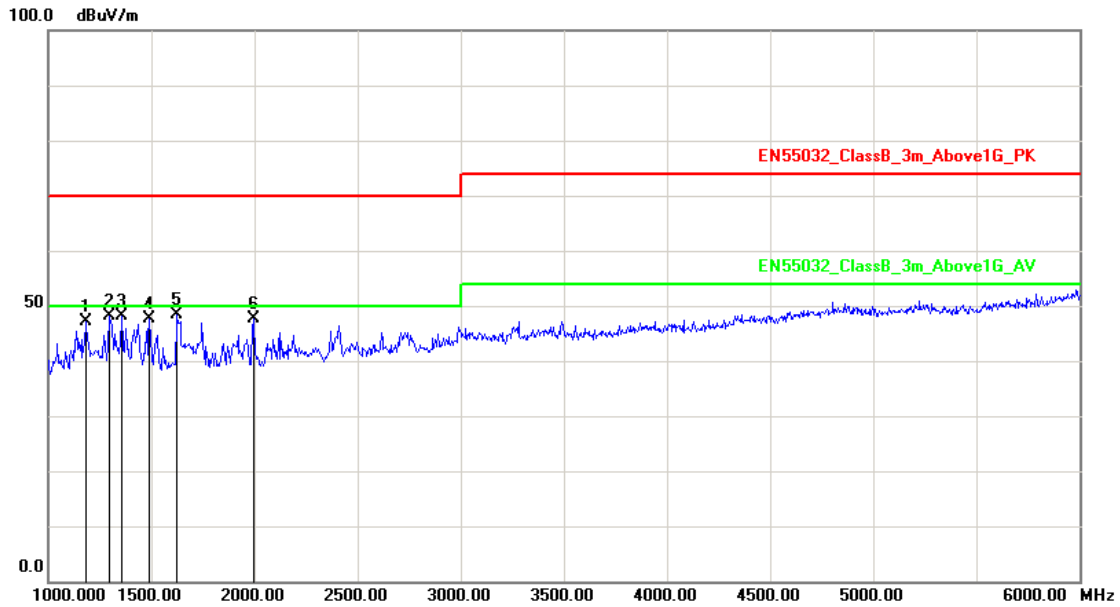


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1300.000	-3.98	48.92	44.94	70.00	-25.06	peak	200	0
2	1520.000	-2.58	48.88	46.30	70.00	-23.70	peak	100	0
3	1620.000	-2.29	50.15	47.86	70.00	-22.14	peak	200	116
4	2240.000	0.02	47.51	47.53	70.00	-22.47	peak	200	241
5	3120.000	4.49	42.94	47.43	74.00	-26.57	peak	100	189
6	5150.000	11.43	40.60	52.03	74.00	-21.97	peak	100	347

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 25: Full system (DP1 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

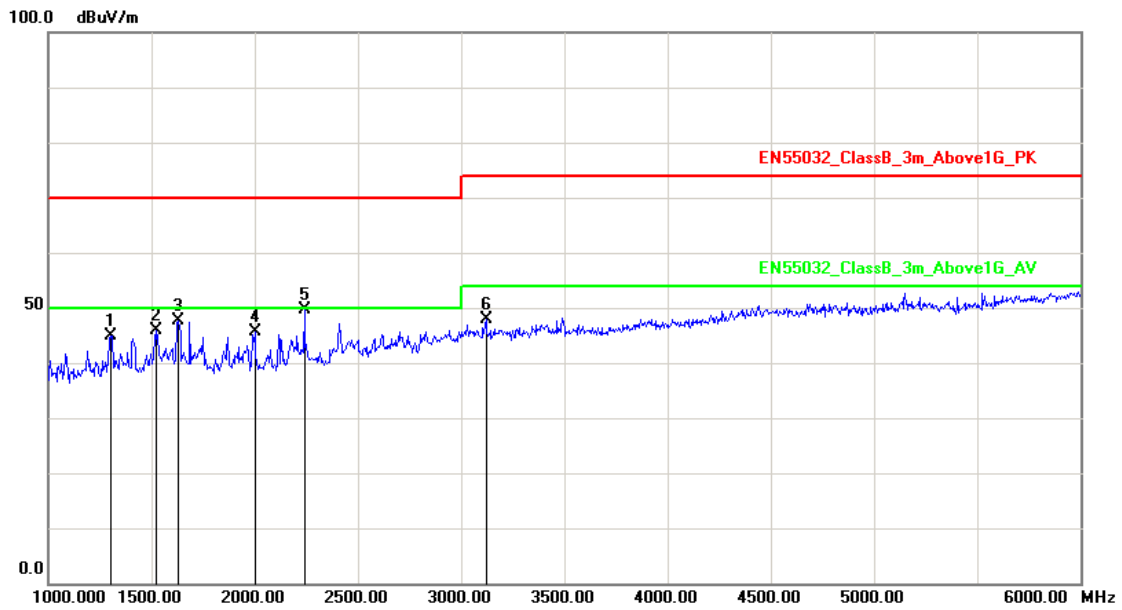


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1180.000	-4.78	51.84	47.06	70.00	-22.94	peak	100	162
2	1295.000	-4.01	52.24	48.23	70.00	-21.77	peak	100	354
3	1355.000	-3.61	51.75	48.14	70.00	-21.86	peak	100	297
4	1490.000	-2.71	50.45	47.74	70.00	-22.26	peak	200	0
5	1625.000	-2.28	50.60	48.32	70.00	-21.68	peak	100	110
6	1995.000	-1.21	48.84	47.63	70.00	-22.37	peak	200	188

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 28: Full system (DP2 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Horizontal
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23

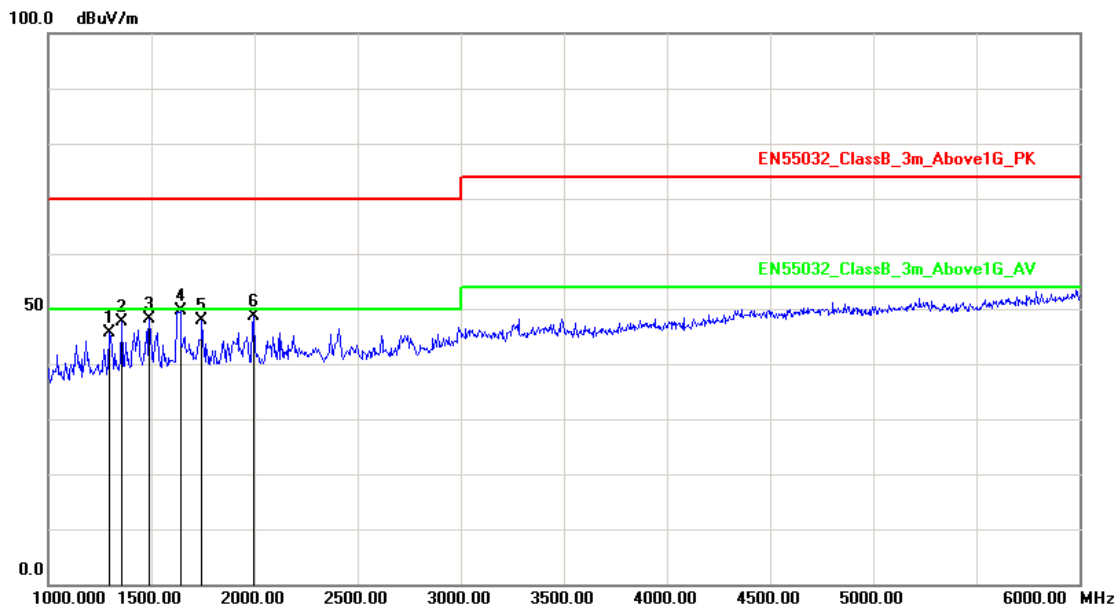


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1300.000	-3.98	48.92	44.94	70.00	-25.06	peak	200	48
2	1520.000	-2.58	48.38	45.80	70.00	-24.20	peak	100	350
3	1630.000	-2.27	49.78	47.51	70.00	-22.49	peak	200	360
4	2000.000	-1.20	46.93	45.73	70.00	-24.27	peak	100	156
5	2240.000	0.02	49.51	49.53	70.00	-20.47	peak	200	121
6	3120.000	4.49	43.44	47.93	74.00	-26.07	peak	100	324

Note: Measurement Level = Reading Level + Correct Factor



Test Mode :	Mode 28: Full system (DP2 mode 2560*1440@144Hz) (230V/50Hz)		
AC Power :	AC 230V/50Hz	Ant. Polarization:	Vertical
Equipment :	LCD Monitor	Model No :	315LM00026
Temperature :	23°C	Humidity :	56%
Pressure(mbar) :	1001	Date:	2017/01/23



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)
1	1295.000	-4.01	49.74	45.73	70.00	-24.27	peak	200	165
2	1355.000	-3.61	51.25	47.64	70.00	-22.36	peak	169	360
3	1490.000	-2.71	50.95	48.24	70.00	-21.76	peak	200	195
4	1640.000	-2.24	51.82	49.58	70.00	-20.42	peak	150	360
5	1745.000	-1.93	49.69	47.76	70.00	-22.24	peak	100	221
6	1995.000	-1.21	49.84	48.63	70.00	-21.37	peak	200	121

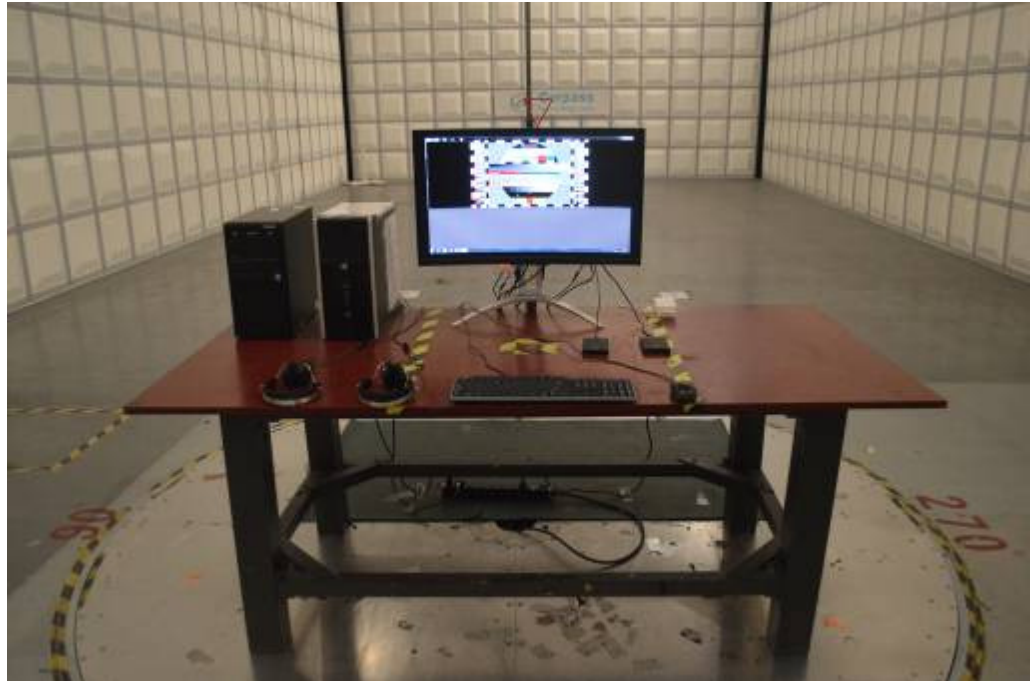
Note: Measurement Level = Reading Level + Correct Factor

Test engineer: Sun Zhang

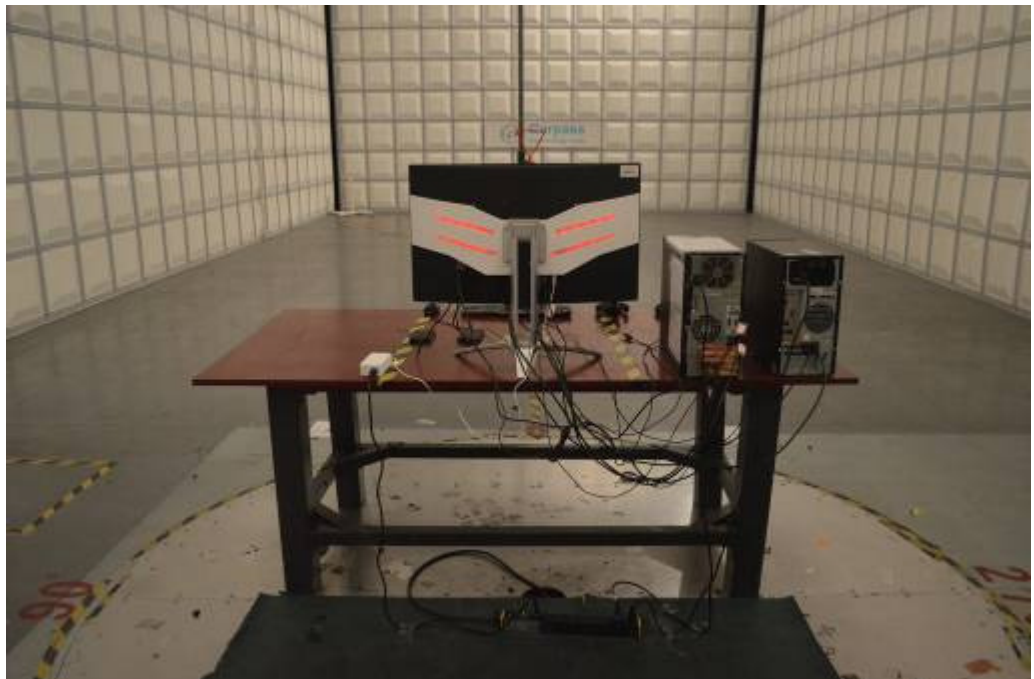


### 5.7. Test Photographs (30MHz ~ 1000MHz)

Front View



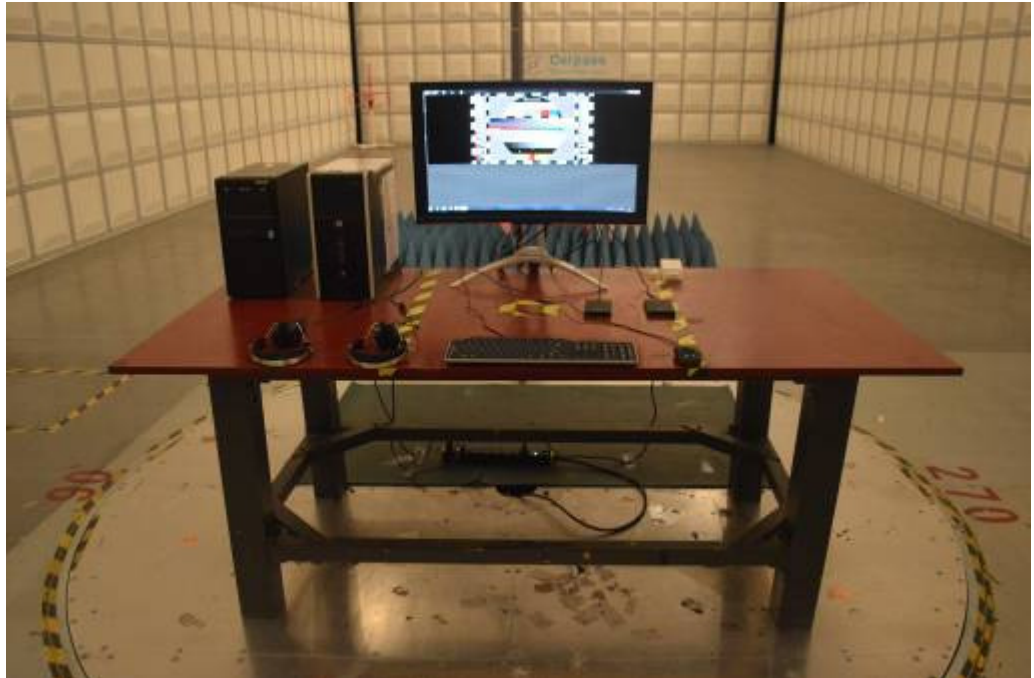
Rear View



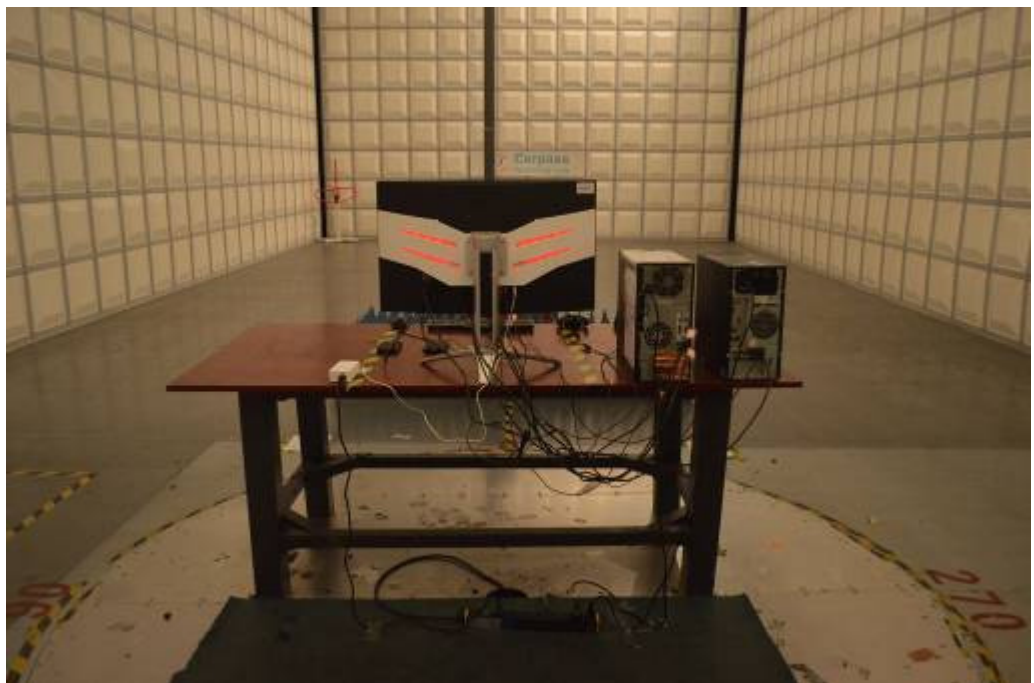


### 5.8. Test Photographs (1000MHz ~ 6000MHz)

Front View



Rear View







## 6. Harmonics Test

### 6.1. Limits of Harmonics Current Measurement

#### Limits for Class A equipment

Harmonics Order n	Max. permissible harmonics current A	Harmonics Order n	Max. permissible harmonics current A
Odd harmonics		Even harmonics	
3	2.30	2	1.08
5	1.14	4	0.43
7	0.77	6	0.30
9	0.40	8<=n<=40	0.23x8/n
11	0.33		
13	0.21		
15<=n<=39	0.15x15/n		

#### (b) Limits for Class B equipment

For Class B equipment, the harmonics of the input current shall not exceed the values given in Table that is the limit of Class A multiplied by a factor of 1,5.

#### (c) Limits for Class C equipment

Harmonics Order n	Maximum permissible harmonic current expressed as a percentage of the input current at the fundamental frequency %
2	2
3	$30 \cdot \lambda^*$
5	10
7	7
9	5
11<n<39 (odd harmonics only)	3

\*  $\lambda$  is the circuit power factor

#### (d) Limits for Class D equipment

Harmonics Order n	Maximum permissible harmonic current per watt mA/W	Maximum permissible harmonic current A
3	3.4	2.30
5	1.9	1.14
7	1.0	0.77
9	0.5	0.40
11	0.35	0.33
11 < n < 39 (odd harmonics only)	3.85/n	See limit of Class A

**NOTE:** According to section 7 of EN 61000-3-2, the above limits for all equipment except for lighting equipment having an active input power > 75 W and no limits apply for equipment with an active input power up to and including 75 W.





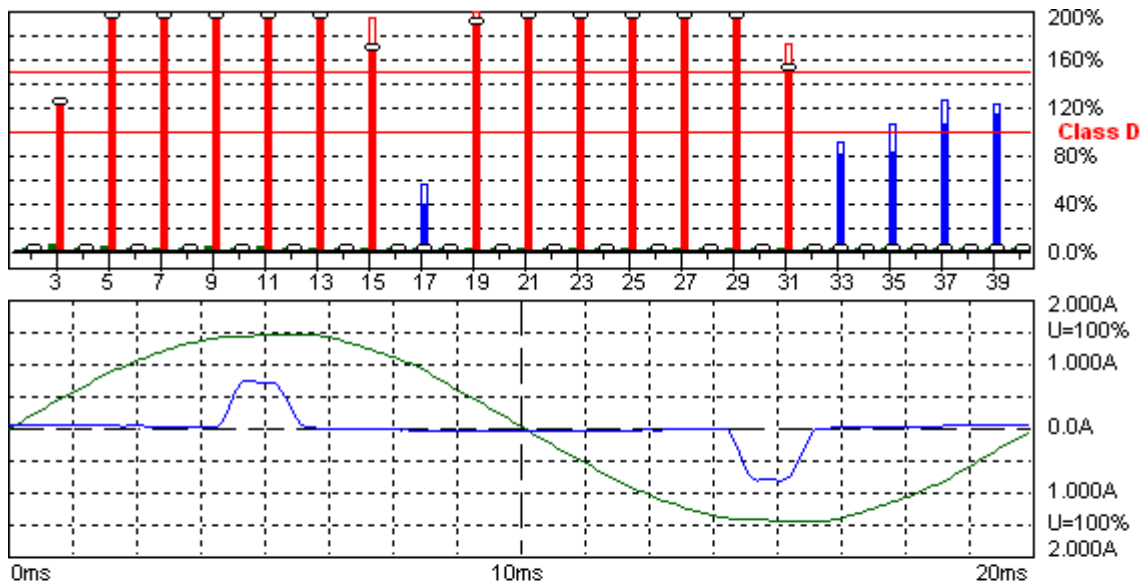
### 6.2. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMC Emission Tester	EMCPARTNER	Harmonics-1000	159	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2016.03.29	2017.03.28
HARCS	EMC Partner AG	Ver 4.18	N/A	N/A	N/A



### 6.3. Test Result and Data

Basic Standard	:	EN 61000-3-2
Final Test Result	:	PASS
Test Mode	:	mode 1,4,7,10,13
Model No.	:	315LM00026
Temperature	:	20°C
Humidity	:	50 %
Atmospheric Pressure	:	100 kPa
Test Date	:	Jan 23, 2017



Harmonic Emission - IEC 61000-3-2 , EN 61000-3-2 , (EN60555-2)

2017-1-23 11:57:53 harmonic.hsu

Urms = 229.9 V    P = 28.47 W    THC = 0.213 A    Range: 2 A  
 Irms = 0.247 A    pf = 0.501    Pmax = 29.37 W    V-nom: 230 V  
 TestTime: 15 min (100%)  
 HAR-1000 EMC-Partner

Full Bar : Actual Values

Empty Bar : Maximum Values

Blue : Current , Green : Voltage , Red : Failed

Urms = 229.9V    Freq = 50.000    Range: 2 A  
 Irms = 0.247A    Ipk = 0.835A    cf = 3.379  
 P = 28.47W    S = 56.80VA    pf = 0.501  
 THDi = 161 %    THDu = 1.90 %    Class D  
 Test - Time : 15min ( 100 %)  
 Limit Reference: Pmax = 29.372W  
 Test completed, Result: N/L



Order	Freq. [Hz]	Irms [A]	Irms%L [%]	Imax [A]	Imax%L [%]	Limit [A]	Status
1	50	0.1329		0.1371			
2	100	0.0103		0.0107			
3	150	0.1212	121.38	0.1254	125.54	0.00	N/L
4	200	0.0087		0.0093			
5	250	0.1085	194.46	0.1113	199.49	0.00	N/L
6	300	0.0079		0.0085			
7	350	0.0920	313.36	0.0951	323.75	0.00	N/L
8	400	0.0060		0.0063			
9	450	0.0717	487.92	0.0740	503.71	0.00	N/L
10	500	0.0035		0.0038			
11	550	0.0494	480.91	0.0508	493.97	0.00	N/L
12	600	0.0021		0.0023			
13	650	0.0305	350.83	0.0320	367.67	0.00	N/L
14	700	0.0007		0.0009			
15	750	0.0128	170.02	0.0145	192.69	0.00	N/L
16	800	0.0018		0.0021			
17	850	0.0024	36.703	0.0035	53.219	0.00	N/L
18	900	0.0027		0.0029			
19	950	0.0112	188.69	0.0126	211.26	0.00	N/L
20	1000	0.0037		0.0038			
21	1050	0.0167	310.57	0.0179	333.24	0.00	N/L
22	1100	0.0035		0.0038			
23	1150	0.0189	384.84	0.0197	399.73	0.00	N/L
24	1200	0.0033		0.0035			
25	1250	0.0176	388.62	0.0181	399.41	0.00	N/L
26	1300	0.0029		0.0032			
27	1350	0.0143	341.01	0.0149	355.58	0.00	N/L
28	1400	0.0024		0.0026			
29	1450	0.0098	250.44	0.0104	266.09	0.00	N/L
30	1500	0.0021		0.0023			
31	1550	0.0056	153.93	0.0062	170.67	0.00	N/L
32	1600	0.0018		0.0020			
33	1650	0.0027	78.371	0.0031	89.058	0.00	N/L
34	1700	0.0016		0.0018			
35	1750	0.0026	79.342	0.0033	102.01	0.00	N/L
36	1800	0.0015		0.0016			
37	1850	0.0032	103.85	0.0038	123.82	0.00	N/L
38	1900	0.0011		0.0013			
39	1950	0.0033	113.67	0.0035	122.09	0.00	N/L
40	2000	0.0009		0.0010			

The power of EUT is less than 75W after the testing. According the standard, the equipment with a rated power of 75W or less, other than lighting equipment, limits are not specified in this standard. So the test data needn't list.

Test engineer: Sun. Zhang



#### 6.4. Test Photographs





## 7. Voltage Fluctuations Test

### 7.1. Test Procedure

The equipment shall be tested under the conditions of **Clause 5**.

The total impedance of the test circuit, excluding the appliance under test, but including the internal impedance of the supply source, shall be equal to the reference impedance.

The stability and tolerance of the reference impedance shall be adequate to ensure that the overall accuracy of  $\pm 8\%$  is achieved during the whole assessment procedure.

### 7.2. Measurement equipment

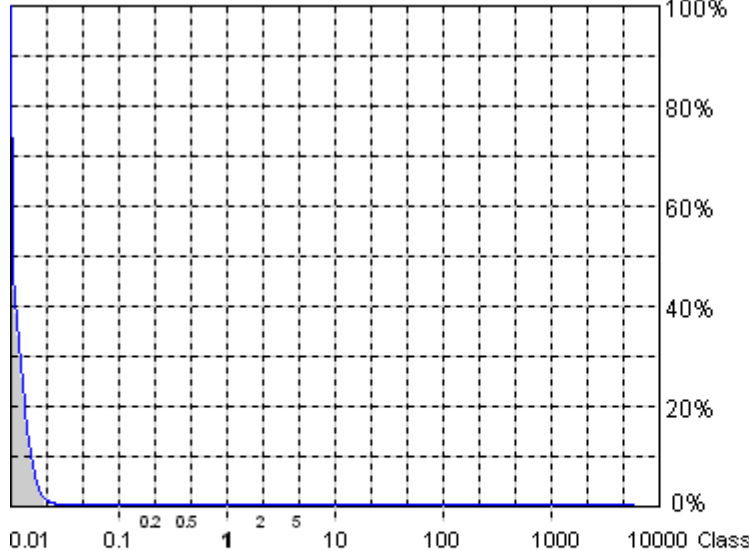
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
EMC Emission Tester	EMCPARTNER	Harmonics-1000	159	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-004	2016.03.29	2017.03.28
HARCS	EMC Partner AG	Ver 4.18	N/A	N/A	N/A



### 7.3. Test Result and Data

Basic Standard	:	EN 61000-3-3
Final Test Result	:	PASS
Test Mode	:	mode 1,4,7,10,13
Model No.	:	315LM00026
Temperature	:	20°C
Humidity	:	50 %
Atmospheric Pressure	:	100 kPa
Test Data	:	Jan 23, 2017

Flicker Emission IEC 61000-4-15 for 230V/50Hz



<b>Actual Flicker (Fli):</b>	<b>0.01</b>
<b>Short-term Flicker (Pst):</b>	<b>0.09</b>
Limit (Pst):	1.00
<b>Long-term Flicker (Plt):</b>	<b>0.09</b>
Limit (Plt):	0.65
<b>Maximum Relative Volt. Change (dmax):</b>	<b>0.00%</b>
Limit (dmax):	4.00%
<b>Relative Steady-state Voltage Change (dc):</b>	<b>0.14%</b>
Limit (dc):	3.30%
<b>Tmax 3.30% (dt):</b>	<b>0.00ms</b>
Limit (dt>Lim):	500ms

**Flicker Emission - IEC 61000-3-3, EN 61000-3-3**

Urms = 229.9 V    P = 24.54 W  
 Irms = 0.269 A    pf = 0.397

2017-1-23 12:52:12 harmonic.hsu

Range: 50 A  
 V-nom: 230 V  
 TestTime: 10 min (100%)

**Test completed, Result: PASSED**

HAR-1000 EMC-Parber

Full Bar : Actual Values

Empty Bar : Maximum Values

Circles : Average Values

Blue : Current , Green : Voltage , Red : Failed



Urms = 229.9V Freq = 50.000 Range: 50 A  
Irms = 0.269A Ipk = 0.928A cf = 3.455  
P = 24.54W S = 61.74VA pf = 0.397

Test - Time : 1 x 10min = 10min ( 100 %)

LIN (Line Impedance Network) : No LIN

Limits : Plt : 0.65 Pst : 1.00  
dmax : 4.00 % dc : 3.30 %  
dtLim: 3.30 % dt>Lim: 500ms

Test completed, Result: PASSED

Test engineer: Sun. Zhang



#### 7.4. Test Photographs





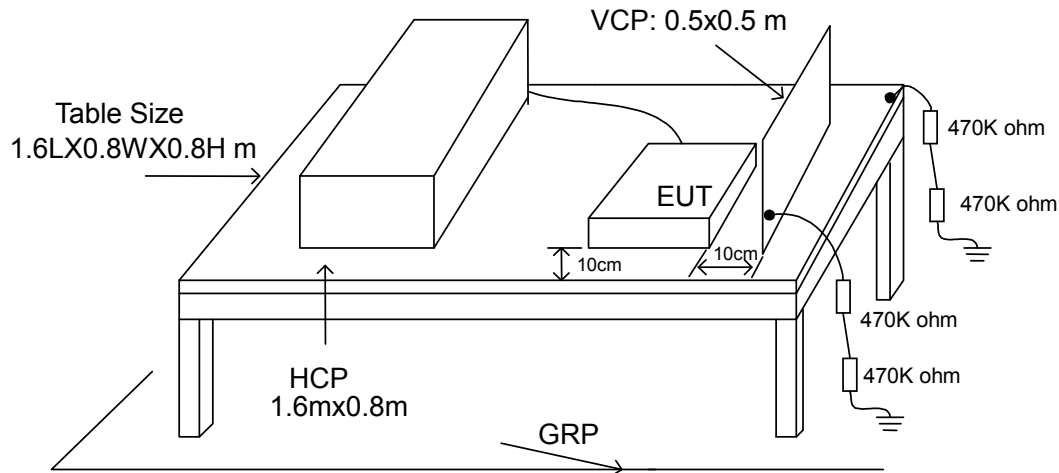


## 8. Electrostatic Discharge Immunity Test

### 8.1. Test Procedure

- a. In the case of air discharge testing the climatic conditions shall be within the following ranges:
  - ambient temperature: 15°C to 35°C;
  - relative humidity : 30% to 60%;
  - atmospheric pressure : 86 KPa (860 mbar) to 106 KPa (1060 mbar).
- b. Test programs and software shall be chosen so as to exercise all normal modes of operation of the EUT. The use of special exercising software is encouraged, but permitted only where it can be shown that the EUT is being comprehensively exercised.
- c. The test voltage shall be increased from the minimum to the selected test severity level, in order to determine any threshold of failure. The final severity level should not exceed the product specification value in order to avoid damage to the equipment.
- d. The test shall be performed with both air discharge and contact discharge. On reselected points at least 10 single discharges (in the most sensitive polarity) shall be applied on air discharge. On reselected points at least 25 single discharges (in the most sensitive polarity) shall be applied on contact discharge.
- e. For the time interval between successive single discharges an initial value of one second is recommended. Longer intervals may be necessary to determine whether a system failure has occurred.
- f. In the case of contact discharges, the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.
- g. In the case of painted surface covering a conducting substrate, the following procedure shall be adopted :
  - If the coating is not declared to be an insulating coating by the equipment manufacturer, then the pointed tip of the generator shall penetrate the coating so as to make contact with the conducting substrate.
  - Coating declared as insulating by the manufacturer shall only be submitted to the air discharge.
  - The contact discharge test shall not be applied to such surfaces.
- h. In the case of air discharges, the round discharge tip of the discharge electrode shall be approached as fast as possible (without causing mechanical damage) to touch the EUT . After each discharge, the ESD generator (discharge electrode) shall be removed from the EUT. The generator is then retriggered for a new single discharge. This procedure shall be repeated until the discharges are completed. In the case of an air discharge test, the discharge switch, which is used for contact discharge, shall be closed.

## 8.2. Test Setup for Tests Performed in Laboratory



The test setup consists of the test generator, EUT and auxiliary instrumentation necessary to perform DIRECT and INDIRECT application of discharges to the EUT as applicable, in the follow manner :

- Contact Discharge to the conductive surfaces and to coupling plane;
- Air Discharge at insulating surfaces.

The preferred test method is that of type tests performed in laboratories and the only accepted method of demonstrating conformance with this standard. The EUT was arranged as closely as possible to arrangement in final installed conditions.

A ground reference plane was provided on the floor of the test site. It was a metallic sheet (copper or aluminum) of 0.25 mm, minimum thickness; other metallic may be used but they shall have at least 0.65 mm thickness. In the CerpPASS Technology Corp., we provided 1 mm thickness stainless steel ground reference plane. The minimum size of the ground reference plane is 2.5 m x 2.5 m, the exact size depending on the dimensions of the EUT. It was connected to the protective grounding system.

The EUT was arranged and connected according to its functional requirements. A distance of 1m minimum was provided between the EUT and the wall of the lab. and any other metallic structure. In cases where this length exceeds the length necessary to apply the discharges to the selected points, the excess length shall, where possible, be placed non-inductively off the ground reference plane and shall not come closer than 0.2m to other conductive parts in the test setup.

Where the EUT is installed on a metal table, the table was connected to the reference plane via a cable with a 470k ohm resistor located at each end, to prevent a build-up of charge. The test setup was consist a wooden table, 0.8m high, standing on the ground reference plane. A HCP, 1.6 m x 0.8 m, was placed on the table. The EUT and cables was isolated from the HCP by an insulating support 0.5 mm thick. The VCP size, 0.5 m x 0.5 m.



### 8.3. Test Severity Levels

Contact Discharge		Air Discharge	
Level	Test Voltage (KV) of Contact discharge	Level	Test Voltage (KV) of Air Discharge
1	±2	1	±2
2	±4	2	±4
3	±6	3	±8
4	±8	4	±15
X	Specified	X	Specified

Remark: "X" is an open level.

### 8.4. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
ESD Simulator	EM Test	dito	V0714102399	2016.04.21	2017.04.20
Tonometer	shanghaifengyun	DYM3	3251	2016.12.21	2017.12.20
Dehumidifier	ZEDO	ZD-220LB	CEP-TH-01	N/A	N/A
Humidifier	YADU	YZ-DS251C	CEP-TH-02	N/A	N/A
Temperature/ Humidity Meter	feiyan	N/A	102	2016.03.29	2017.03.28
ESD Simulator	NoiseKen	ESS-B3011A	AEC00315-00 C-0A	2016.12.12	2017.12.11



**8.5. Test Result and Data**

Basic Standard : IEC 61000-4-2  
 Final Test Result : PASS  
 Model No. : 315LM00026  
 Pass performance criteria : B  
 Test Voltage : ±2 / ±4 / ±8 kV for air discharge,  
 : ±2 / ±4 kV for contact discharge  
 Temperature : 20°C  
 Relative Humidity : 50 %  
 Atmospheric Pressure : 100 kPa  
 Test Date : Jan 24, 2017

Test mode 1,4,7,10,13

	Contact Discharge								Air Discharge							
	25 times / each								10 times / each							
Voltage	2 kV		4 kV		6 kV		8 kV		2 kV		4 kV		8 kV		10 kV	
PointPolarity	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
HCP	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
VCP	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
Screw	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
Case	---	---	---	---	---	---	---	---	A	A	A	A	A	A	---	---
Panel	---	---	---	---	---	---	---	---	A	A	A	A	A	A	---	---
HDMI1 Port	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
HDMI2 Port	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
DP1 Port	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
DP2 Port	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
VGA Port	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
Audio Port	---	---	---	---	---	---	---	---	A	A	A	A	A	A	---	---
USB Port	A	A	A	A	---	---	---	---	---	---	---	---	---	---	---	---
Power Port	---	---	---	---	---	---	---	---	A	A	A	A	A	A	---	---
Button	---	---	---	---	---	---	---	---	A	A	A	A	A	A	---	---
LED Light	---	---	---	---	---	---	---	---	A	A	A	A	A	A	---	---

Test engineer: Sun. Zhang



## 8.6. Test Photographs





## 9. Radio Frequency electromagnetic field immunity test

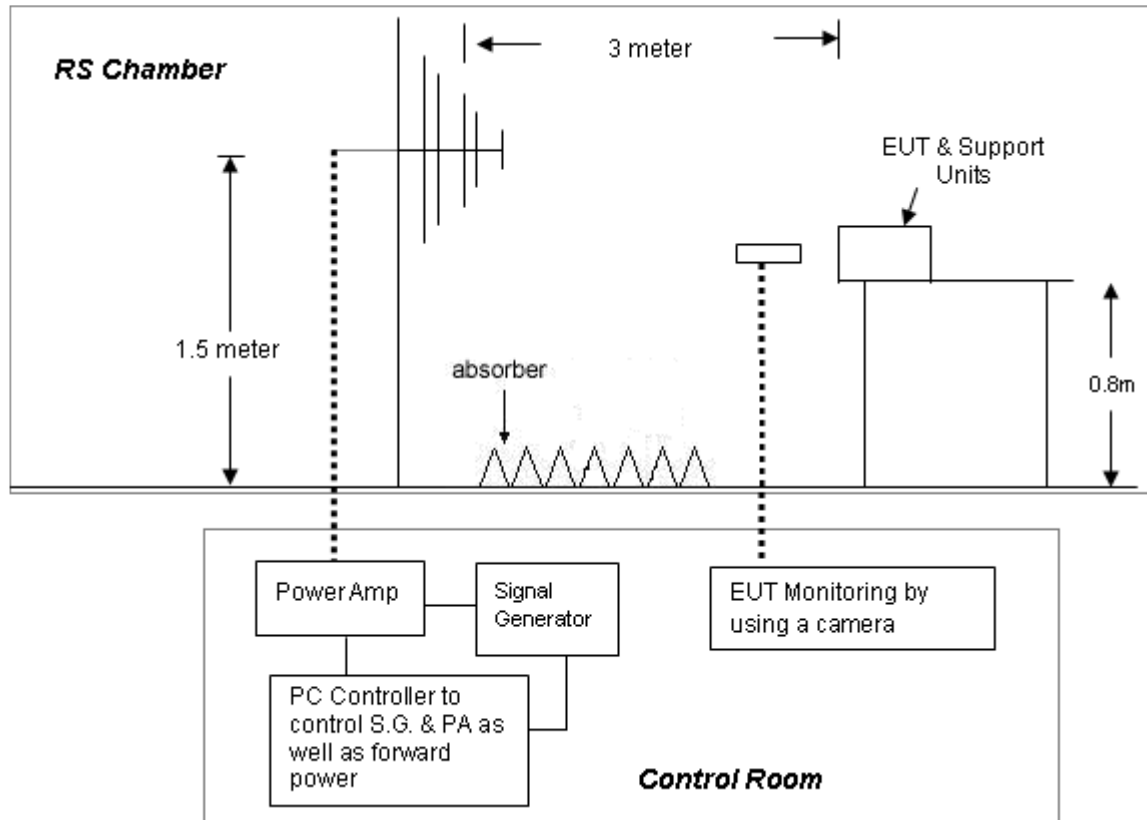
### 9.1. Test Procedure

- a. The equipment to be tested is placed in the center of the enclosure on a wooden table. The equipment is then connected to power and signal leads according to pertinent installation instructions.
- b. The antenna which is enabling the complete frequency range of 80-1000 MHz is placed 3m away from the equipment. The required field strength is determined by placing the field strength meter(s) on top of or directly alongside the equipment under test and monitoring the field strength meter via a remote field strength indicator outside the enclosure while adjusting the continuous-wave to the applicable antennae.
- c. The test is normally performed with the antenna facing the most sensitive side of the EUT. The polarization of the field generated by the bucolical antenna necessitates testing each position twice, once with the antenna positioned vertically and again with the antenna positioned horizontally. The circular polarization of the field from the log-spiral antenna makes a change of position of the antenna unnecessary.
- d. At each of the above conditions, the frequency range is swept 80-1000 MHz, pausing to adjust the R.F. signal level or to switch oscillators and antenna. The rate of sweep is in the order of  $1.5 \cdot 10^{-3}$  decades/s. The sensitive frequencies or frequencies of dominant interest may be discretely analyzed.

### 9.2. Test Severity Levels

Frequency Band : 80-1000 MHz	
Level	Test field strength (V/m)
1	1
2	3
3	10
X	Specified
Remark: "X" is an open class.	

### 9.3. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### NOTE:

##### TABLETOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC 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 section 7 of IEC 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.



#### 9.4. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Signal Generator	R&S	SML03	103287	2016.03.26	2017.03.25
Power Sensor	R&S	NR P-Z91	100383	2016.03.26	2017.03.25
Power Sensor	R&S	NRP-Z91	100384	2016.03.26	2017.03.25
Power Meter	R&S	NRP	101206	2016.03.26	2017.03.25
Power Amplifier	BONN	BLWA0830-16 0/100/40D	076659	2016.03.26	2017.03.25
Istropic Electric Field Probe	EST.LINDGRE N	HI-6105	137445	2016.11.20	2017.11.19
EMS Antenna	R&S	HL046E	100028	N/A	N/A
Temperature/ Humidity Meter	feiyang	N/A	101	2016.03.29	2017.03.28
EMC-32	Rohde&Schwa rz	Ver 6.10.0	N/A	N/A	N/A





9.5. Test Result and Data

Basic Standard : IEC 61000-4-3  
 Final Test Result : PASS  
 Model No. : 315LM00026  
 Pass performance criteria : A  
 Frequency Range : 80~1000 MHz  
 Temperature : 22°C  
 Relative Humidity : 50 %  
 Atmospheric Pressure : 100 kPa  
 Test Date : Jan 22, 2017

Test mode 1,4,7,10,13

Modulation : AM 80% , 1KHz sine wave , Dwell time: 3.0 S				
Frequency Step Size : 1 % of preceding frequency value				
Frequency (MHz)	Antenna Polarization	face	Field strength (V/m)	Result
80~1000	Vertical	Front	3 V/m	A
80~1000	Vertical	Rear	3 V/m	A
80~1000	Vertical	Left	3 V/m	A
80~1000	Vertical	Right	3 V/m	A
80~1000	Horizontal	Front	3 V/m	A
80~1000	Horizontal	Rear	3 V/m	A
80~1000	Horizontal	Left	3 V/m	A
80~1000	Horizontal	Right	3 V/m	A

Test engineer:     *Sun. Zhang*



## 9.6. Test Photographs





## 10. Electrical Fast Transient/ Burst Immunity Test

### 10.1. Test Procedure

- a. In order to minimize the effect of environmental parameters on test results, the climatic conditions when test is carrying out shall comply with the following requirements:
  - ✧ ambient temperature: 15°C to 35°C;
  - ✧ relative humidity : 45% to 75%;
  - ✧ Atmospheric pressure: 86 Kpa (860 mbar) to 106 Kpa (1060 mbar).
- b. In order to minimize the effect of environmental parameters on test results, the electromagnetic environment of the laboratory shall not influence the test results.
- c. The variety and diversity of equipment and systems to be tested make it difficult to establish general criteria for the evaluation of the effects of fast transients/bursts on equipment and systems.
- d. Test on Power Line:
  - ✧ The EFT/B-generator was located on the GRP.  
For floor standing equipment 1,0 m  
For table top equipment 0,5 m
  - ✧ The EFT/B-generator provides the ability to apply the test voltage in a non-symmetrical condition to the power supply input terminals of the EUT.
- e. Test on Communication Lines
  - ✧ The coupling clamp is composed of a clamp unit for housing the cable (length more than 3 m), and was placed on the GRP.
  - ✧ The coupling clamp provides the ability of coupling the fast transient/bursts to the cable under test.
- f. The test results may be classified on the basic of the operating conditions and the functional specification of the equipment under test, according to the following performance criteria :
  - ✧ Normal performance within the specification limits.
  - ✧ Temporary degradation or loss of function or performance which is self-recoverable.
  - ✧ Temporary degradation or loss of function or performance which requires operator intervention or system reset.
  - ✧ Degradation or loss of function which is not recoverable due to damage of equipment (components).

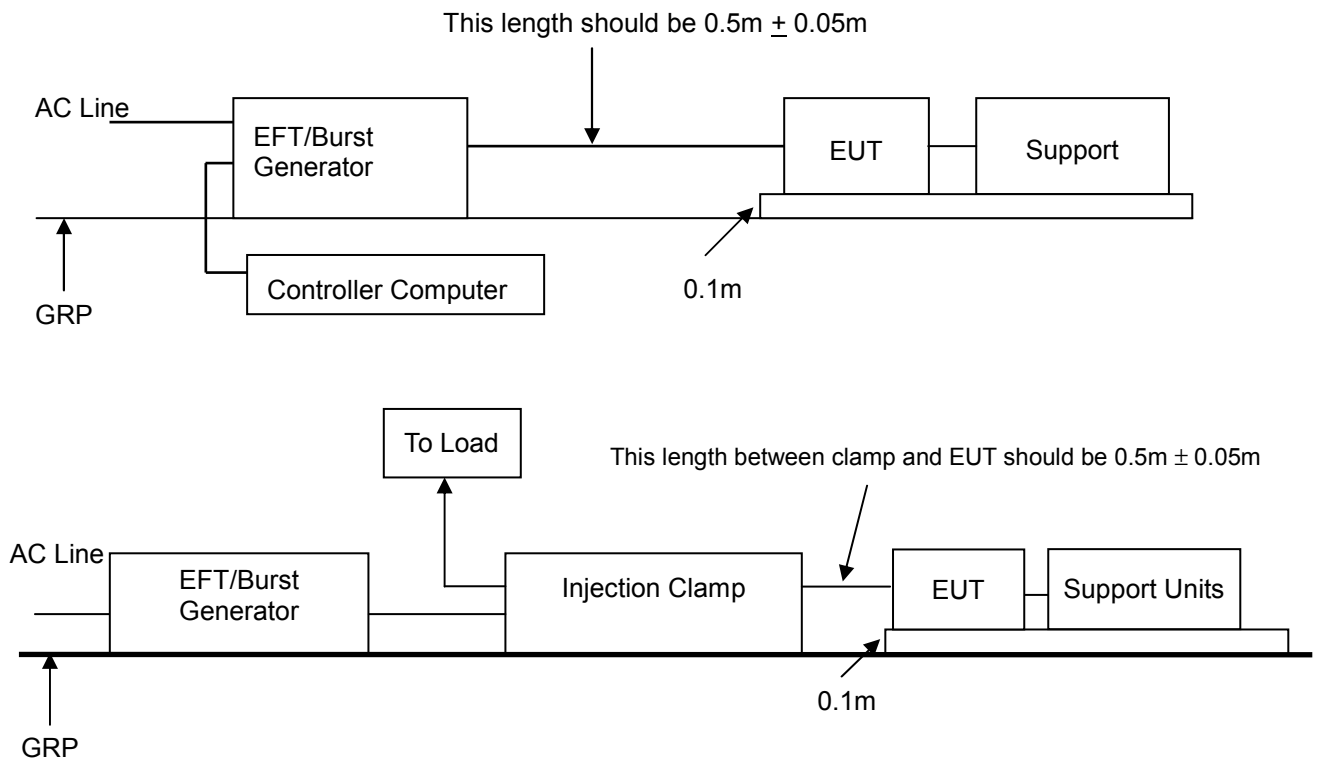
### 10.2. Test Severity Levels

The following test severity levels are recommended for the fast transient/burst test :

Open circuit output test voltage $\pm 10\%$		
Level	On Power Supply	On I/O signal, data and control line
1	0.5 KV	0.25 KV
2	1.0 KV	0.50 KV
3	2.0 KV	1.00 KV
4	4.0 KV	2.00 KV
X	Specified	Specified

Remark : " X " is an open level. The level is subject to negotiation between the user and manufacturer or is specified by the manufacturer.

### 10.3. TEST SETUP



- For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

**NOTE:**

TABLETOP EQUIPMENT

The configuration consisted of a wooden table (0.1m high) standing on 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 section 7 of IEC 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.



#### 10.4. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
TRANSIENT	EMCPARTNER	TRA2000IN6	901	2016.06.26	2017.06.25
CDN	EMCPARTNER	CDN2000-06-32	121	2016.03.26	2017.03.25
Coupling clamp	EMCPARTNER	CN-EFT1000	547	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-005	2016.03.29	2017.03.28



10.5. Test Result and Data

Basic Standard : IEC 61000-4-4  
 Final Test Result : PASS  
 Model No. : 315LM00026  
 Pass performance criteria : B  
 Test Voltage : On Power Supply -- ±1.0 kV  
                   : On I/O signal, data and control line -- ±0.5 kV  
 Temperature : 20°C  
 Relative Humidity : 50 %  
 Atmospheric Pressure : 100 kPa  
 Test Date : Jan 24, 2017

Test mode 1,4,7,10,13

Pulse : 5/50 ns		Repetition Rate: <u>5 kHz</u> above 2.0 kV			
Burst : 15m/300ms		<u>5 kHz</u> below and equal 2.0 kV			
Test time : 1 min/each condition					
Voltage/ Mode/ Polarity/ Result/ Phase		<u>0.5 kV</u>		<u>1.0 kV</u>	
		+	-	+	-
Power Line	L	---	---	A	A
	N	---	---	A	A
	L-N	---	---	A	A
	PE	---	---	A	A
	L-PE	---	---	A	A
	N-PE	---	---	A	A
	L-N-PE	---	---	A	A

Test engineer: Sun. Zhang



## 10.6. Test Photographs





## 11. Surge Immunity Test

### 11.1. Test Procedure

- a. Climatic conditions  
The climatic conditions shall comply with the following requirements :
  - ✧ ambient temperature : 15 °C to 35 °C
  - ✧ relative humidity : 10 % to 75 %
  - ✧ atmospheric pressure : 86 kPa to 106 kPa ( 860 mbar to 1060 mbar )
- b. Electromagnetic conditions  
the electromagnetic environment of the laboratory shall not influence the test results.
- c. The test shall be performed according the test plan that shall specify the test set-up with
  - ✧ generator and other equipment utilized;
  - ✧ test level ( voltage/current );
  - ✧ generator source impedance;
  - ✧ internal or external generator trigger;
  - ✧ number of tests : at least five positive and five negative at the selected points;
  - ✧ repetition rate : maximum 1/min.
  - ✧ inputs and outputs to be tested;
  - ✧ representative operating conditions of the EUT;
  - ✧ sequence of application of the surge to the circuit;
  - ✧ phase angle in the case of AC. power supply;
  - ✧ actual installation conditions, for example :
    - AC : neutral earthed,
    - DC : ( + ) or ( - ) earthed to simulated the actual earthing conditions.
- d. If not otherwise specified the surges have to be applied synchronized to the voltage phase at the zero-crossing and the peak value of the AC. voltage wave ( positive and negative ).
- e. The surges have to be applied line to line and line(s) and earth. When testing line to earth, the test voltage has to be applied successively between each of the lines and earth, if there is no other specification.
- f. The test procedure shall also consider the non-linear current-voltage characteristics of the equipment under test. Therefore the test voltage has to be increased by steps up to the test level specified in the product standard or test plan.
- g. All lower levels including the selected test level shall be satisfied. For testing the secondary protection, the output voltage of the generator shall be increased up to the worst-case voltage breakdown level ( let-through level ) of the primary protection.
- h. If the actual operating signal sources are not available, that may be simulated. Under no circumstances may the test level exceed the product specification. The test shall be carried out according to a test plan.
- i. To find all critical points of the duty cycle of the equipment, a sufficient number of positive and negative test pulses shall be applied. For acceptance test previously unstressed equipment shall be used to the protection devices shall be replaced.

### 11.2. Test Severity Level

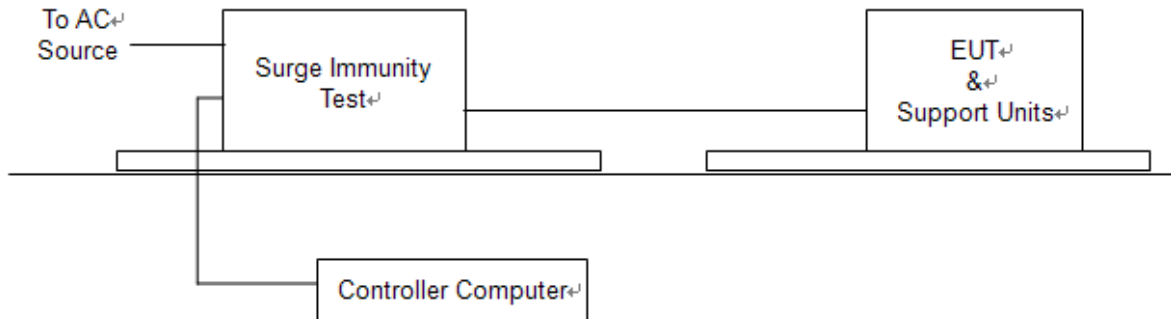
Level	Open-circuit test voltage, $\pm 10\%$ , KV
1	0.5
2	1.0
3	2.0
4	4.0
X	Specified

NOTE: "X" is an open class. This level can be specified in the product specification.





### 11.3. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 11.4. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
TRANSIENT	TESEQ	NSG 3060	1830	2016.02.04	2017.02.03
CDN	TESEQ	CDN 3061	1575	2016.02.04	2017.02.03
CDN	TESEQ	CNV508T5	P 1546167499	2016.02.17	2017.02.16
CDN	TESEQ	CDN HSS-2	41020	2016.02.24	2017.02.23
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-005	2016.03.29	2017.03.28

**11.5. Test Result and Data**

Basic Standard : IEC 61000-4-5  
Final Test Result : PASS  
Model No. : 315LM00026  
Pass performance criteria : B  
Test Voltage : Input AC Power Port --  $\pm 0.5/1.0$  kV for Line to Line  
 $\pm 0.5/1.0/2.0$  kV for Line to Ground  
Temperature : 20°C  
Relative Humidity : 50 %  
Atmospheric Pressure : 100 kPa  
Test Date : Jan 24, 2017

**Power Port**

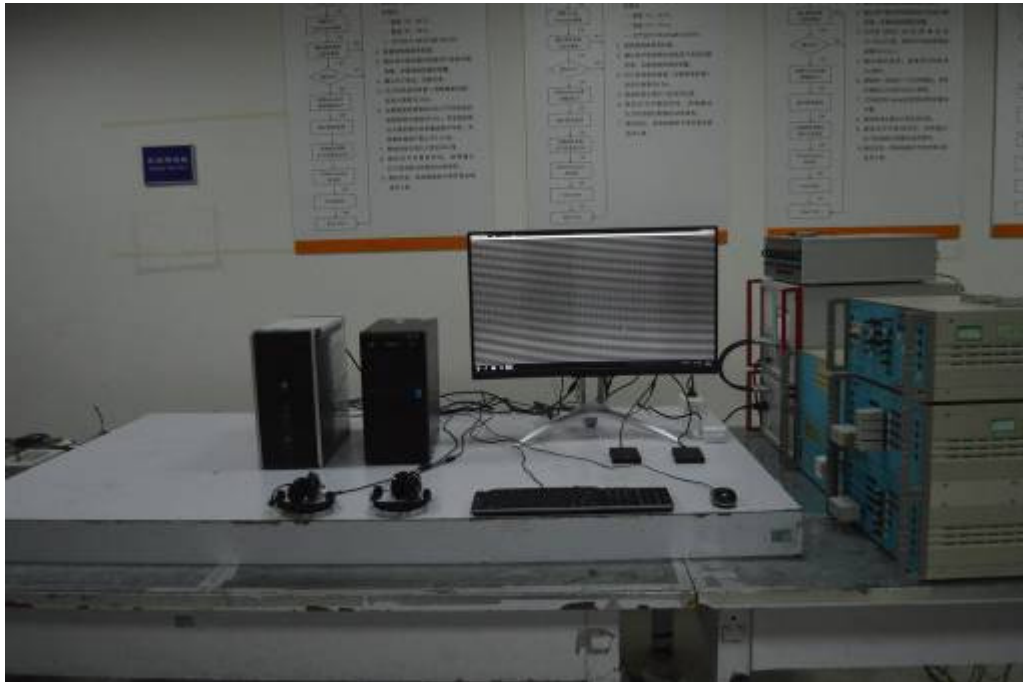
Test mode 1,4,7,10,13

Waveform : 1.2/50 $\mu$ s(8/20 $\mu$ s)    Repetition rate : 60 sec    Time : 20 time/each condition						
/Phase Voltage / Mode / Polarity / Result			0°	90°	180°	270°
<u>0.5/1.0 kV</u>	L-N	+	A	A	A	A
		-	A	A	A	A
<u>0.5/1.0/2.0kV</u>	L-PE	+	A	A	A	A
		-	A	A	A	A
	N-PE	+	A	A	A	A
		-	A	A	A	A

Test engineer Sun. Zhang



### 11.6. Test Photographs





## 12. Conduction Disturbances induced by Radio-Frequency Fields

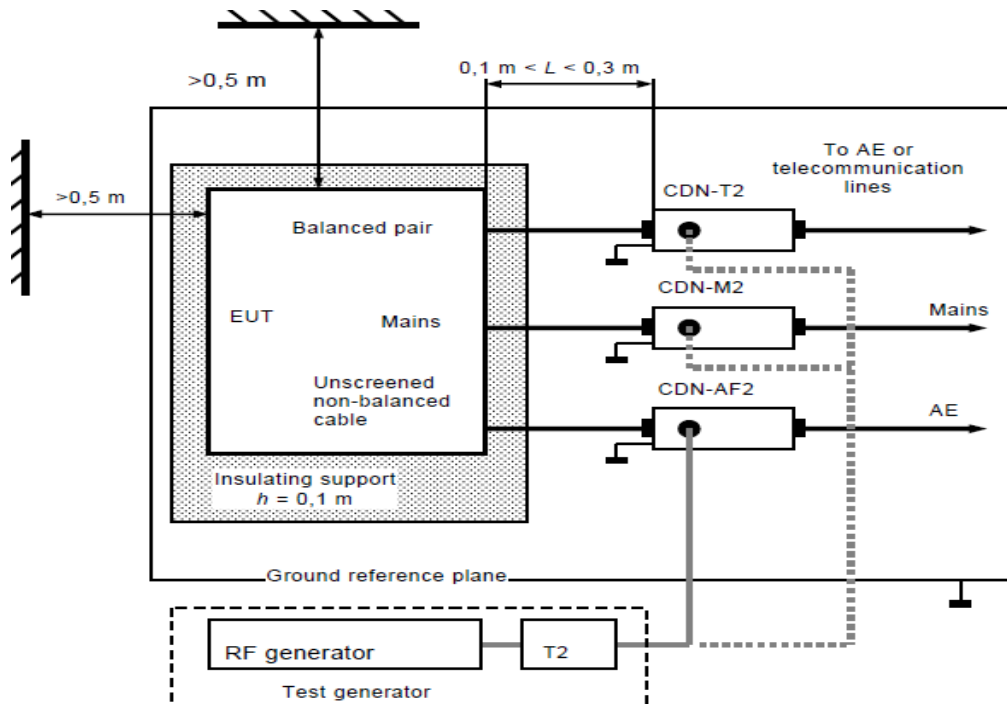
### 12.1. Test Procedure

- a. The EUT shall be operated within its intended climatic conditions. The temperature and relative humidity should be recorded.
- b. This test method test can be performed without using a sell shielded enclosure. This is because the disturbance levels applied and the geometry of the setups are not likely to radiated a high amount of energy, especially at the lower frequencies. If under certain circumstances the radiated energy is too high, a shielded enclosure has to be used.
- c. The test shall be performed with the test generator connected to each of the coupling and decoupling devices in turn while the other non-excited RF-input ports of the coupling devices are terminated by a 50 ohm load resistor.
- d. The frequency range is swept from 150 KHz to 80 MHz, using the signal levels established during the setting process, and with the disturbance signal 80% amplitude modulated with a 1KHz sign wave, pausing to adjust the RF-signal level or to switch coupling devices as necessary. The rate of sweep shall no exceed  $1.5 \times 10^{-3}$  decades/s. Where the frequency is swept incrementally, the step size shall no exceed 1% of the start and thereafter 1% of the preceding frequency value.
- e. The dwell time at each frequency shall not be less than the time necessary for the EUT to be exercised, and able to respond. Sensitive frequencies e.g. clock frequency (ies) and harmonics or frequencies of dominant interest shall be analyzed separately.
- f. An alternative test procedure may be adopted, wherein the frequency range is swept incrementally, with a step size not exceeding 4% of the start ad thereafter 4% of the preceding frequency value. The test level should be at least twice the value of the specified test level.
- g. In cases of dispute, the test procedure using a step size not exceeding 1% of the start and thereafter 1% of preceding frequency value shall take precedence.
- h. Attempts should be made to fully exercise the EUT during testing, and to fully interrogate all exercise modes selected for susceptibility.
- i. The use of special exercising programs is recommended.
- j. Testing shall be performed according to a Test Plan, which shall be included in the test report.
  - a. It may be necessary to carry out some investigatory testing in order to establish some aspects of the test plan.

### 12.2. Test Severity Levels

Level	Voltage Level ( e.m.f. )
1	1 V
2	3 V
3	10 V
x	Specified
NOTE - x is an open class. This level can be specified in the product specification.	

### 12.3. TEST SETUP



- Note:**
1. The EUT is setup 0.1m above Ground Reference Plane
  2. The CDNs and / or EM clamp used for real test depends on ports and cables configuration of EUT.
  3. For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



#### 12.4. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
Conducted immunity test system	FRANKONIA	CIT-10/75	102D1294	2016.03.26	2017.03.25
EM Injection clamp	FCC	F-203I-23MM	536	2016.03.26	2017.03.25
CDN	FRANKONIA	CDN-T2	A3010029	2016.03.26	2017.03.25
CDN	FRANKONIA	CDN-T4	A3015017	2016.03.26	2017.03.25
CDN	FRANKONIA	CDN-T8	A3022010	2016.03.26	2017.03.25
CDN	FRANKONIA	CDN-M2	A3002037	2016.03.26	2017.03.25
CDN	FRANKONIA	CDN-M2+M3	A3011102	2016.03.26	2017.03.25
CDN	FCC	CDN-M5/32	A3013024	2016.03.26	2017.03.25
6 dB Attenuator	FRANKONIA	N/A	N/A	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-005	2016.03.29	2017.03.28
EN61000-4-6	Hubert GmbH	Ver 2.21	N/A	N/A	N/A



**12.5. Test Result and Data**

Basic Standard : IEC 61000-4-6  
Final Test Result : PASS  
Model No. : 315LM00026  
Pass performance criteria : A  
Coupling mode : CDN-(M2+M3) for AC power ports  
                  : CDN-T4 for signal ports  
                  : EM-Clamp for signal ports  
Temperature : 20° C  
Relative Humidity : 50 %  
Atmospheric Pressure : 100 kPa  
Test Date : Jan 24, 2017

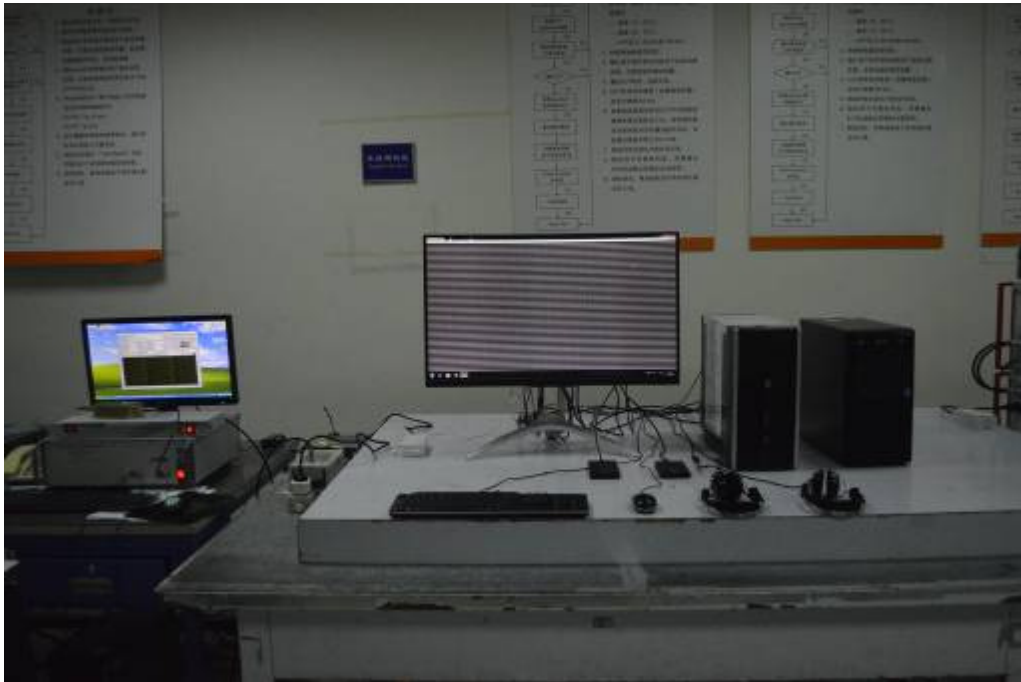
Test mode 1,4,7,10,13

Frequency : 0.15~80MHz, Modulation : AM 80%,1KHz sine wave, Dwell time: 2.9s Frequency Step Size : 1 % of preceding frequency value			
Frequency	Test mode	Voltage(V)	Result
0.15 ~ 80MHz	Power(M3)	3	A

Test engineer: Sun. Zhang



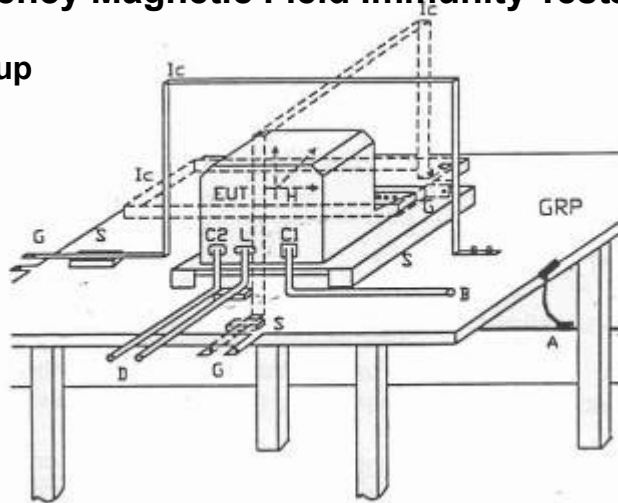
## 12.6. Test Photographs





### 13. Power Frequency Magnetic Field Immunity Tests

#### 13.1. Test Setup



- GPR : Ground plane
- A : Safety earth
- S : Insulating support
- EUT : Equipment under test
- Lc : Induction coil
- E : Earth terminal
- C1 : Power supply circuit
- C2 : Signal circuit
- L : Communication line
- B : To power supply source
- D : To signal source, simulator
- G : To the test generator

#### 13.2. Test Severity Levels

Level	Magnetic field strength (A/m)
1	1
2	3
3	10
4	30
5	100
X <sup>1)</sup>	special

NOTE 1 "X" is an open level. This level can be given in the product specification.

#### 13.3. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
TRANSIENT	EMCPARTNER	TRA2000IN6	901	2016.06.26	2017.06.25
H-Filed-Loop	EMCPARTNER	MF1000-1	144	2016.03.26	2017.03.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-005	2016.03.29	2017.03.28



**13.4. Test Result and Data**

Basic Standard : IEC 61000-4-8  
Final Test Result : PASS  
Model No. : 315LM00026  
Pass performance criteria : A  
Temperature : 20°C  
Relative Humidity : 50 %  
Atmospheric Pressure : 100 kPa  
Test Date : Jan 24, 2017  
Test mode 1,4,7,10,13

Power Frequency Magnetic Field : <u>50/60</u> Hz, <u>1</u> A/m		
Coil Orientation	Testing duration	Results
X-axis	1.0 Min	A
Y-axis	1.0 Min	A
Z-axis	1.0 Min	A

Test engineer: Sun. Zhang



### 13.5. Test Photographs





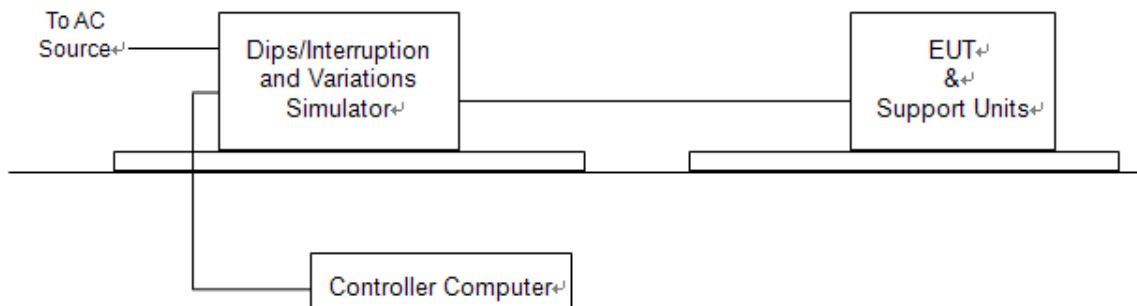
## 14. Voltage Dips and Voltage Interruptions Immunity Test Setup

### 14.1. Test Conditions

1. Source voltage and frequency : AC 100/230/240V / 50Hz, Single phase.
2. Test of interval : 10 sec.
3. Level and duration : Sequence of 3 dips/interrupts.
4. Voltage rise (and fall) time : 1 ~ 5  $\mu$ s.
5. Test severity :

Voltage dips and Interrupt reduction (%)	Test Duration (period)
>95%	250
30%	25
>95%	0.5

### 14.2. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

### 14.3. Measurement equipment

Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
TRANSIENT	EMCPARTNER	TRA2000IN6	901	2016.06.26	2017.06.25
Temperature/ Humidity Meter	Zhicheng	ZC1-11	CEP-TH-005	2016.03.29	2017.03.28



14.4. Test Result and Data

Basic Standard : IEC 61000-4-11  
 Final Test Result : PASS  
 Model No. : 315LM00026  
 Pass performance Criteria : C for voltage interruption, B for voltage dips  
 Temperature : 20°C  
 Relative Humidity : 50 %  
 Atmospheric Pressure : 100 kPa  
 Test Date : Jan 24, 2017

Test mode 1,4,7,10,13										
Voltage(UT): AC 230 V/240V 50 Hz Interval(s) : 10s Times : 3										
Test mod	Test level UT %	Durations (period / ms )	Phase / Result							
			0	45	90	135	180	225	270	315
Voltage interruptions	>95%	250	C	C	C	C	C	C	C	C
Voltage dips	30%	25	A	A	A	A	A	A	A	A
	>95%	0.5	A	A	A	A	A	A	A	A

Voltage(UT): AC 100 V 50 Hz Interval(s) : 10s Times : 3										
Test mod	Test level UT %	Durations (period / ms )	Phase / Result							
			0	45	90	135	180	225	270	315
Voltage interruptions	>95%	250	C	C	C	C	C	C	C	C
Voltage dips	30%	25	B	B	B	B	B	B	B	B
	>95%	0.5	B	B	B	B	B	B	B	B

Test engineer: Sun. Zhang



## 14.5. Test Photographs





## 15. Photographs of EUT

### 1) EUT Photo



### 2) EUT Photo





3) EUT Photo



4) EUT Photo







5) EUT Photo



6) EUT Photo





7) EUT Photo(adapter)



8) EUT Photo(adapter)





9) EUT Photo(adapter)



10) EUT Photo(adapter)

