



FCC 47 CFR PART 15 SUBPART B UPDATE TEST REPORT

for

32" LCD TV, LCD Monitor; **32" LCD TV

MODEL: E322VL; **32LD40; **32LD400-UA; **32LD4XX-XX (The " X " in the model designation may be any alphanumeric character or blank.)

FCC ID: MDZ32LD400-UA

Test Report Number:
T100726102-D

Issued for

Amtran Technology Co., Ltd.

17F, No. 268, Lien Chen Rd., Chung Ho City, Taipei County, Taiwan, 235 R.O.C.

Issued By:

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Issued Date: August 18, 2010



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Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|-----------------|-----------------------------|-------------|------------|
| 00 | April 30, 2010 | Initial Issue | All | Angel Hu |
| 01 | August 18, 2010 | See following note Rev.(01) | All | Angel Hu |
| | | | | |
| | | | | |

Note:

Rev.(01) :

1. Applicant three model numbers and one trade name, one product name just for marketing purpose.
2. Applicant adds new appearance of Type 2 (for new model number), the difference of type 1, delete one LAN Port and one HDMI and adds one set of audio in port (the detail please see description of IO Port. (Please refer to have ** mark items on this report and external photographs of Type 2)
3. Applicant adds one IP Board for two types to re-test (Please refer to have ** mark items on this report.)
- 4 Other information, please refer to the T100415102 and this test report.



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1 TEST RESULT CERTIFICATION

| | |
|----------------------|---|
| Product: | 32" LCD TV, LCD Monitor; **32" LCD TV |
| Model: | E322VL; **32LD40; **32LD400-UA; **32LD4XX-XX (The " X " in the model designation may be any alphanumeric character or blank.) |
| Brand: | AmTRAN; VIZIO; **LG |
| Applicant: | Amtran Technology Co., Ltd. 17F, No. 268, Lien Chen Rd., Chung Ho City, Taipei County, Taiwan, 235 R.O.C. |
| Manufacturer: | (1) Amtran Electronic Co., Ltd. No. 225, Jinfeng Road, Suzhou New District, Suzhou, Jiangsu PRC. (2) SuZhou Raken Technology Co., Ltd. No. 278, Mayun Rd., New District Su Zhou, China |
| Tested: | August 3 ~12, 2010 |
| Test Voltage: | 120VAC, 60Hz |

| EMISSION | | | |
|--|-----------------------|--------|--------------------|
| Standard | Item | Result | Remarks |
| FCC 47 CFR Part 15 Subpart B (July 10, 2008), ICES-003 Issue 4 ANSI C63.4-2003 | Conducted (Main Port) | PASS | Meet Class B limit |
| | Radiated | PASS | Meet Class B limit |

- Note:
1. The statements of test result on the above are decided by the request of test standard only; the measurement uncertainties are not factored into this compliance determination.
 2. The information of measurement uncertainty is available upon the customer's request.

| Deviation from Applicable Standard |
|------------------------------------|
| None |

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. 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:

Ethan Huang
Section Manager

Reviewed by:

Stan Lin
Supervisor



2 EUT DESCRIPTION

| | | | |
|-------------------------------|---|--------------|--|
| Product | 32" LCD TV, LCD Monitor; **32" LCD TV | | |
| Model | E322VL; **32LD40; **32LD400-UA; **32LD4XX-XX (The " X " in the model designation may be any alphanumeric character or blank.) | | |
| Brand | AmTRAN; VIZIO; **LG | | |
| Applicant | Amtran Technology Co., Ltd. | | |
| Serial Number | T100726102 | | |
| Received Date | July 26, 2010 | | |
| EUT Power Rating | 100-240VAC, 50/60Hz | | |
| AC Power Cord Type | Unshielded, 1.8m (Detachable) | | |
| LCD Panel Manufacturer | LG Display | Model | LC320WUG |
| IP Board Manufacturer | Delta | Model | DPS-172FP XX (X = 0-9, A-Z or blank) |
| | ** FSP | Model | FSP161-2MS01XX (X = 0-9, A-Z or blank) |

I/O Port For Type 1

| I/O PORT TYPES | Q'TY | TESTED WITH |
|-----------------------------|-------|-------------|
| 1. D-SUB Port | 1 | 1 |
| 2. LAN Port | 1 | 1 |
| 3. HDMI Port | 3 | 3 |
| 4. Component Port (Y/Pb/Pr) | 1 Set | 1 Set |
| 5. AV Terminal Port (V/R/L) | 1 Set | 1 Set |
| 6. Audio out Port | 1 | 1 |
| 7. Audio In Port | 2 Set | 2 Set |
| 8. Optical Port | 1 | 1 |
| 9. Antenna Port | 1 | 1 |
| 10. USB Port | 1 | 1 |



I/O Port For **Type 2

| I/O PORT TYPES | Q'TY | TESTED WITH |
|-----------------------------|-------------|--------------------|
| 1. D-SUB Port | 1 | 1 |
| 2. HDMI Port | 2 | 2 |
| 3. Component Port (Y/Pb/Pr) | 1 Set | 1 Set |
| 4. AV Terminal Port (V/R/L) | 1 Set | 1 Set |
| 5. Audio out Port | 1 | 1 |
| 6. Audio In Port | 3 Set | 3 Set |
| 7. Optical Port | 1 | 1 |
| 8. Antenna Port | 1 | 1 |
| 9. USB Port | 1 | 1 |

- Note:** 1. The EUT include one Remote Control for sale only.
2. The all model numbers (list on this report) are identical, just for marketing purpose only.
3. The means of "X" (The " X " in the model designation may be any alphanumeric character or blank.) on model number is just for marketing purpose only.



3 TEST METHODOLOGY

3.1. DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

| Mode | D-SUB | HDMI 1 | HDMI 2 | HDMI 3 | Component | AV Terminal | LCD Panel | IP Board | Type |
|------|--------------------|--------|--------|--------|-----------|-------------|------------------------|---------------------|--------|
| 1 | 1920 x 1080 / 60Hz | --- | --- | --- | --- | --- | LG Display LC320WUG | FSP FSP161-2MS01 | Type 1 |
| 2 | 1280 x 1024 / 75Hz | --- | --- | --- | --- | --- | | | |
| 3 | 800 x 600 / 60Hz | --- | --- | --- | --- | --- | | | |
| 4 | --- | 1080P | --- | --- | --- | --- | | | |
| 5 | --- | --- | 1080P | --- | --- | --- | | | |
| 6 | --- | --- | --- | 1080P | --- | --- | | | |
| 7 | --- | --- | --- | --- | Component | --- | | | |
| 8 | --- | --- | --- | --- | --- | AV Terminal | | | Type 2 |
| 9 | 1920 x 1080 / 60Hz | --- | --- | --- | --- | --- | | | |
| 10 | 1280 x 1024 / 75Hz | --- | --- | --- | --- | --- | | | |
| 11 | 800 x 600 / 60Hz | --- | --- | --- | --- | --- | | | |
| 12 | --- | 1080P | --- | --- | --- | --- | | | |
| 13 | --- | --- | 1080P | --- | --- | --- | | | |
| 14 | --- | --- | --- | --- | Component | --- | | | |
| 15 | --- | --- | --- | --- | --- | AV Terminal | | | |

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

| Final Test Mode | | |
|-----------------|--------------------|------------------|
| Emission | Conducted Emission | Mode 1, 9 |
| | Radiated Emission | Mode 1, 9 |

Then, the above highest emission mode of the configuration of the EUT and cable was chosen for all final test items.

3.2. EUT SYSTEM OPERATION

| | |
|---|---|
| 1 | EMI test program was loaded and executed in “Windows XP” mode. |
| 2 | Data was sent to EUT filling the screen with upper case of “H” patterns. |
| 3 | Test program sequentially exercised all related I/O’s of Host PC and sent “H” patterns to all applicable output ports of Host PC. |
| 4 | Repeat 2 to 3. |

Note: Test program is self-repeating throughout the test.



4 SETUP OF EQUIPMENT UNDER TEST

4.1. DESCRIPTION OF SUPPORT UNITS

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

| Mode 1 | | | | | | | |
|--------|-------------------------|------------|----------------------|------------|------------|---|--|
| No. | Equipment | Model No. | Serial No. | FCC ID | Trade Name | Data Cable | Power Cord |
| 1 | PC | DX-6120 | SGH5330GK7 | FCC DoC | HP | D-SUB Cable: Shielded, 1.8m with two cores Audio Cable: Unshielded, 1.8m HDMI Cable: Unshielded, 1.8m | Unshielded, 1.8m |
| 2 | Modem | DM-1414 | 304012264 | IFAXDM1414 | ACEEX | Unshielded, 1.8m | Unshielded, 1.8m |
| 3 | Printer | STYLUS C60 | DR3K039425 | FCC DoC | EPSON | Shielded, 1.8m | Unshielded, 1.8m |
| 4 | PS/2 Keyboard | Y-SJ17 | SY528UK | FCC DoC | Logitech | Unshielded, 1.8m | N/A |
| 5 | PS/2 Mouse | M-CAA43 | LZE03257395 | FCC DoC | Logitech | Unshielded, 1.8m | N/A |
| 6 | Flash drive | U172 | N/A | FCC DoC | PQI | Unshielded, 1.0m | N/A |
| 7 | 5.1 Amplifier | Z-5400 | S-0180B | FCC DoC | Logitech | Optical Cable: Unshielded, 1.0m | Unshielded, 1.8m |
| 8 | DVD Player | DVD-S53 | VC7KA001763 R | FCC DoC | Panasonic | HDMI Cable: Unshielded, 1.8m Audio Cable: Unshielded, 1.8m x 2 | Unshielded, 1.8m |
| 9 | DVD Player | DVR-310-S | DDTT004672TA | FCC DoC | PIONEER | HDMI Cable: Unshielded, 1.8m AV Terminal Cable: Unshielded, 1.8m x 3 Component Cable: Unshielded, 1.8m x 3 Audio Cable: Unshielded, 1.8m x 2 | Unshielded, 1.8m |
| 10 | Notebook PC (Remote) | S7110 | DU4A00EG0944P 010 | FCC DOC | Fujitsu | LAN Cable: Unshielded, 10m | AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with two cores |



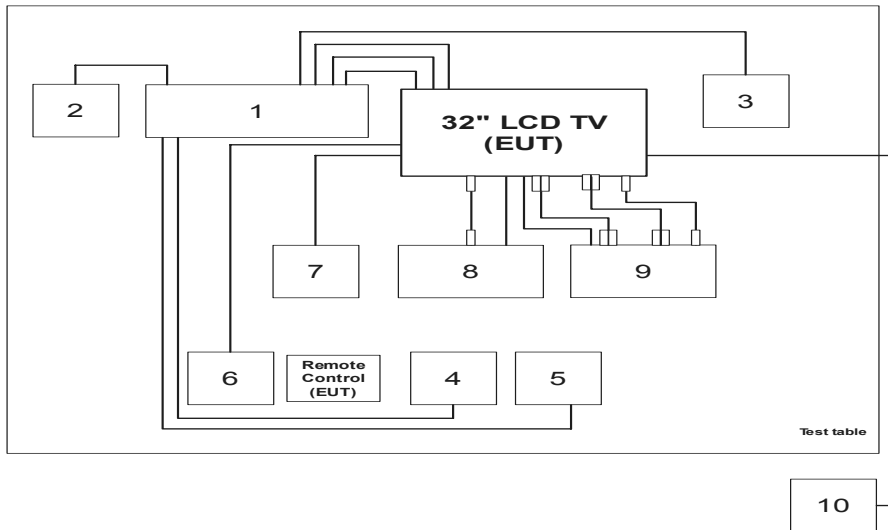
| Mode 9 | | | | | | | |
|--------|------------------|------------|--------------|------------|------------|---|------------------|
| No. | Equipment | Model No. | Serial No. | FCC ID | Trade Name | Data Cable | Power Cord |
| 1 | PC | DX-6120 | SGH5330GK7 | FCC DoC | HP | D-SUB Cable: Shielded, 1.8m with two cores Audio Cable: Unshielded, 1.8m HDMI Cable: Unshielded, 1.8m | Unshielded, 1.8m |
| 2 | Modem | DM-1414 | 304012264 | IFAXDM1414 | ACEEX | Unshielded, 1.8m | Unshielded, 1.8m |
| 3 | Printer | STYLUS C60 | DR3K039425 | FCC DoC | EPSON | Shielded, 1.8m | Unshielded, 1.8m |
| 4 | PS/2 Keyboard | Y-SJ17 | SY528UK | FCC DoC | Logitech | Unshielded, 1.8m | N/A |
| 5 | PS/2 Mouse | M-CAA43 | LZE03257395 | FCC DoC | Logitech | Unshielded, 1.8m | N/A |
| 6 | Flash drive | U172 | N/A | FCC DoC | PQI | Unshielded, 1.0m | N/A |
| 7 | 5.1 Amplifier | Z-5400 | S-0180B | FCC DoC | Logitech | Optical Cable: Unshielded, 1.0m | Unshielded, 1.8m |
| 8 | DVD Player | DVR-310-S | DDTT004672TA | FCC DoC | PIONEER | HDMI Cable: Unshielded, 1.8m AV Terminal Cable: Unshielded, 1.8m x 3 Component Cable: Unshielded, 1.8m x 3 Audio Cable: Unshielded, 1.8m x 6 | Unshielded, 1.8m |

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



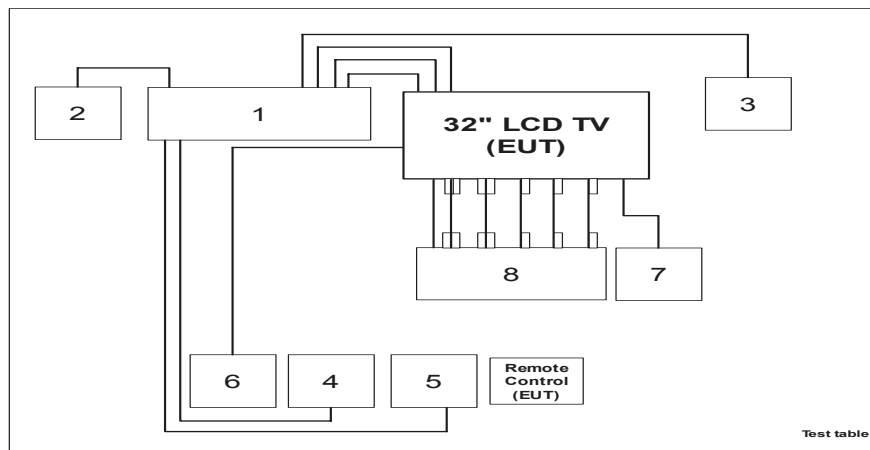
4.2. CONFIGURATION OF SYSTEM UNDER TEST

| Mode 1 | | |
|------------------|---------------|----------------|
| 1. PC | 2. Modem | 3. Printer |
| 4. PS/2 Keyboard | 5. PS/2 Mouse | 6. Flash drive |
| 7. 5.1 Amplifier | 8. DVD Player | 9. DVD Player |
| 10. Notebook PC | --- | --- |



(Remote)

| Mode 9 | | |
|------------------|---------------|----------------|
| 1. PC | 2. Modem | 3. Printer |
| 4. PS/2 Keyboard | 5. PS/2 Mouse | 6. Flash drive |
| 7. 5.1 Amplifier | 8. DVD Player | --- |





5 FACILITIES AND ACCREDITATIONS

5.1. FACILITIES

All measurement facilities used to collect the measurement data are located at No. 81-1, Lane 210, Pa-De 2nd Rd., Luchu Hsiang, Taoyuan Shien, Taiwan.

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 22. All receiving equipment conforms to CISPR 16-1-1, CISPR 16-1-2, CISPR 16-1-3, CISPR 16-1-4, CISPR 16-1-5 and CISPR 16-2-3.

5.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

| | |
|---------------|------|
| Taiwan | TAF |
| USA | A2LA |

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

| | |
|---------------|-----------------|
| Canada | Industry Canada |
| Norway | Nemko |
| Japan | VCCI |
| Taiwan | BSMI |
| USA | FCC |

Copies of granted accreditation certificates are available for downloading from our web site, <http://www.ccsrf.com>



5.3. 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 | 9kHz~30MHz | ±1.7806 |
| Radiated emissions | 10M | |
| | 30~200MHz | ±3.8856 |
| | 200~1000MHz | ±3.8721 |
| | 3M | |
| | 30~200MHz | N/A |
| | 200~1000MHz | N/A |

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: 2006, clause 11, Measurement Uncertainty) determining compliance with the limits shall be base on the results of the compliance measurement. Consequently the measure emissions being less than the maximum allowed emission result in this be a compliant test or passing test.

The acceptable measurement uncertainty value without requiring revision of the compliance statement is base on conducted and radiated emissions being less than U_{CISPR} which is 3.6dB and 5.2dB respectively. CCS values (called U_{Lab} in CISPR 16-4-2) is less than U_{CISPR} as shown in the table above. Therefore, MU need not be considered for compliance.



6 CONDUCTED EMISSION MEASUREMENT

6.1. LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|-----------------|----------------|---------|----------------|---------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 - 0.5 | 79 | 66 | 66 - 56 | 56 - 46 |
| 0.50 - 5.0 | 73 | 60 | 56 | 46 |
| 5.0 - 30.0 | 73 | 60 | 60 | 50 |

NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

6.2. TEST INSTRUMENTS

| Conducted Emission Room # 3 | | | | |
|-----------------------------|--------------|-----------------------------|---------------|-----------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| EMI Test Receiver | R&S | ESCS30 | 845552/030 | 05/27/2011 |
| LISN | R&S | ENV216 | 100069 | 01/27/2011 |
| LISN | FCC | FCC-LISN-50/250 -16-2-07 | 06013 | 10/13/2010 |
| Test S/W | CCS-3A1-CE | | | |

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.



6.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

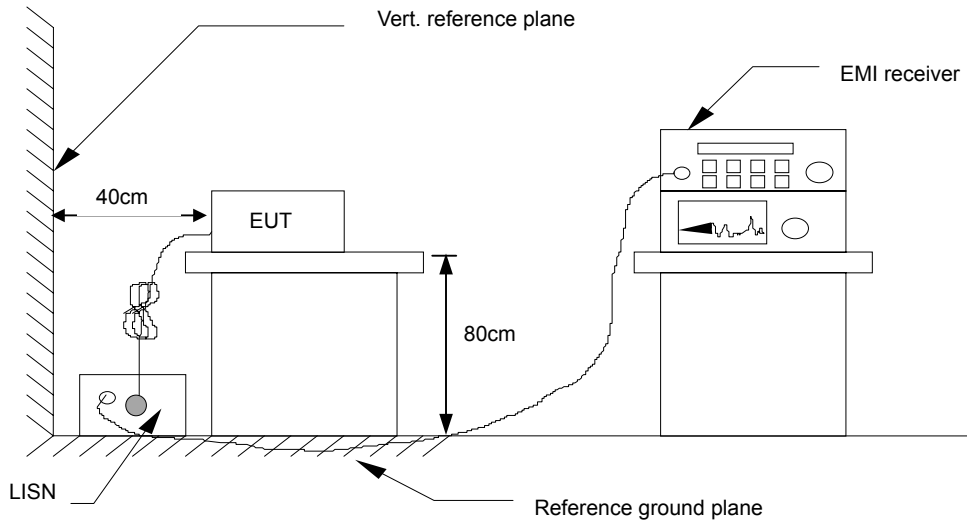
Procedure of Preliminary Test

- The EUT and support equipment, if needed, were set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor standing equipment, it is placed on the ground plane, which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test equipment EUT installed by AC 120VAC/60Hz main power, through a Line Impedance Stabilization Network (LISN), which was supplied power source and was grounded to the ground plane.
- All support equipment power by from a second LISN.
- The test program of the EUT was started. Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

Procedure of Final Test

- EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.
- The test data of the worst-case condition(s) was recorded.

6.4. TEST SETUP



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

6.5. DATA SAMPLE:

| Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correctrion factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak. limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|-----------------|--------------------------|------------------------|-------------------------|-------------------------|-----------------------|-------------------------|----------------------|-----------------------|---------------------|--------|
| x.xx | 43.95 | 33.00 | 10.00 | 53.95 | 43.00 | 56.00 | 46.00 | -2.05 | -3.00 | Pass |

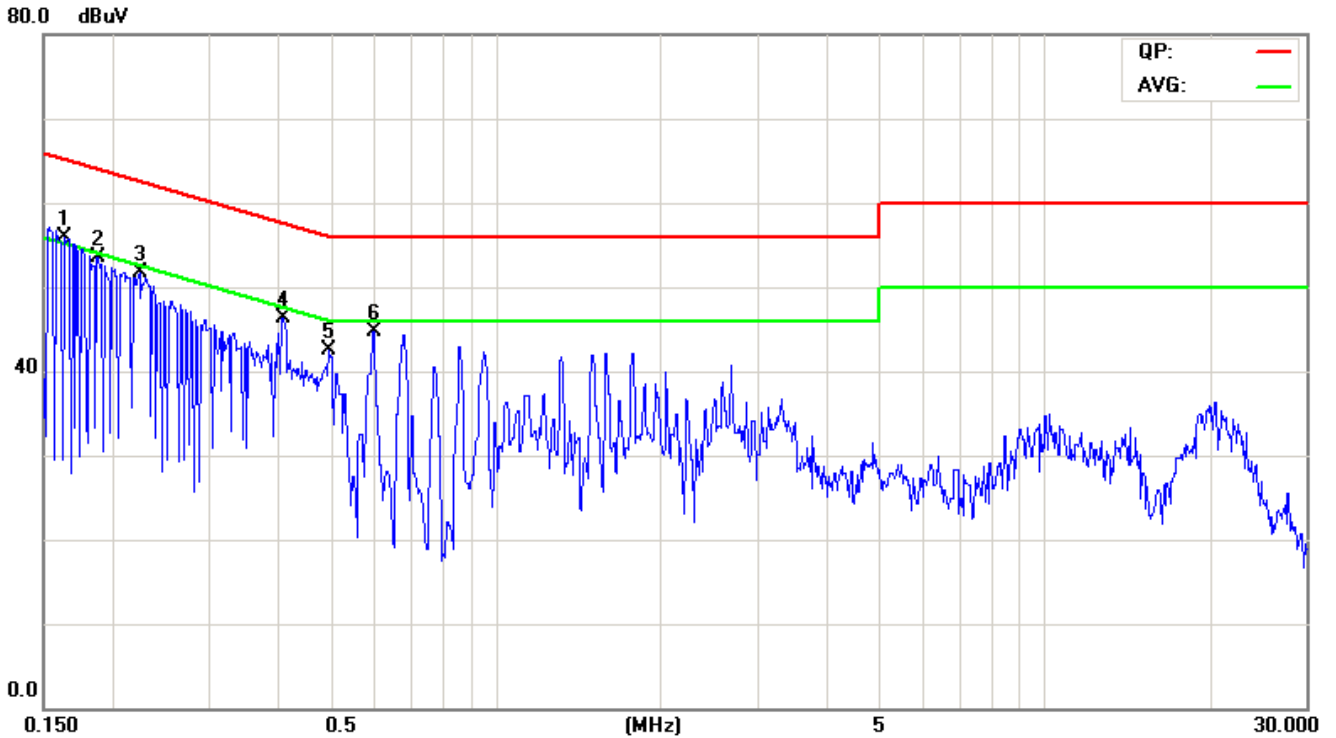
Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV) = Uncorrected Analyzer/Receiver reading + Insertion loss of LISN, if it > 0.5 dB
 Correction Factor (dB) = LISN Factor + Cable Loss
 Result (dBuV) = Raw reading converted to dBuV and CF added
 Limit (dBuV) = Limit stated in standard
 Margin (dB) = Result (dBuV) – Limit (dBuV)



6.6. TEST RESULTS

CCS Conduction Test 3

| | | | |
|--------------------------|--------------|---------------|--------|
| Model No. | E322VL | 6dB Bandwidth | 9 kHz |
| Environmental Conditions | 25°C, 57% RH | Test Mode | Mode 1 |
| Tested by | Juicheng Su | Line | L1 |



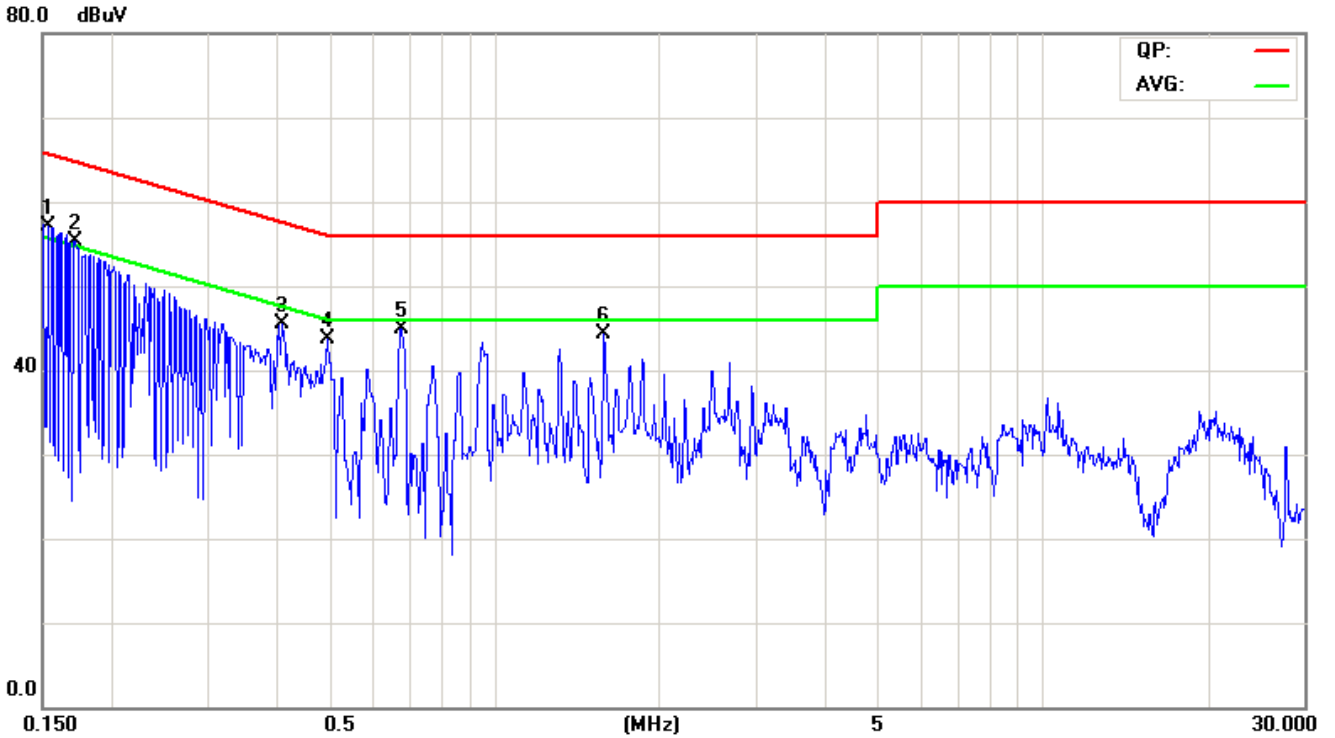
| NO. | Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|-----|--------------------|--------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|--------|
| 1 | 0.1640 | 36.90 | 12.68 | 9.65 | 46.55 | 22.33 | 65.26 | 55.26 | -18.71 | -32.93 | Pass |
| 2 | 0.1882 | 34.42 | 14.54 | 9.65 | 44.07 | 24.19 | 64.12 | 54.12 | -20.05 | -29.93 | Pass |
| 3 | 0.2267 | 32.45 | 28.15 | 9.65 | 42.10 | 37.80 | 62.57 | 52.57 | -20.47 | -14.77 | Pass |
| 4 | 0.4088 | 31.33 | 28.67 | 9.64 | 40.97 | 38.31 | 57.67 | 47.67 | -16.70 | -9.36 | Pass |
| 5* | 0.4994 | 30.67 | 28.29 | 9.55 | 40.22 | 37.84 | 56.01 | 46.01 | -15.79 | -8.17 | Pass |
| 6 | 0.5990 | 24.93 | 11.21 | 9.55 | 34.48 | 20.76 | 56.00 | 46.00 | -21.52 | -25.24 | Pass |

REMARKS: L1 = Line One (Live Line)



CCS Conduction Test 3

| | | | |
|---------------------------------|--------------|----------------------|--------|
| Model No. | E322VL | 6dB Bandwidth | 9 kHz |
| Environmental Conditions | 25°C, 57% RH | Test Mode | Mode 1 |
| Tested by | Juicheng Su | Line | L2 |



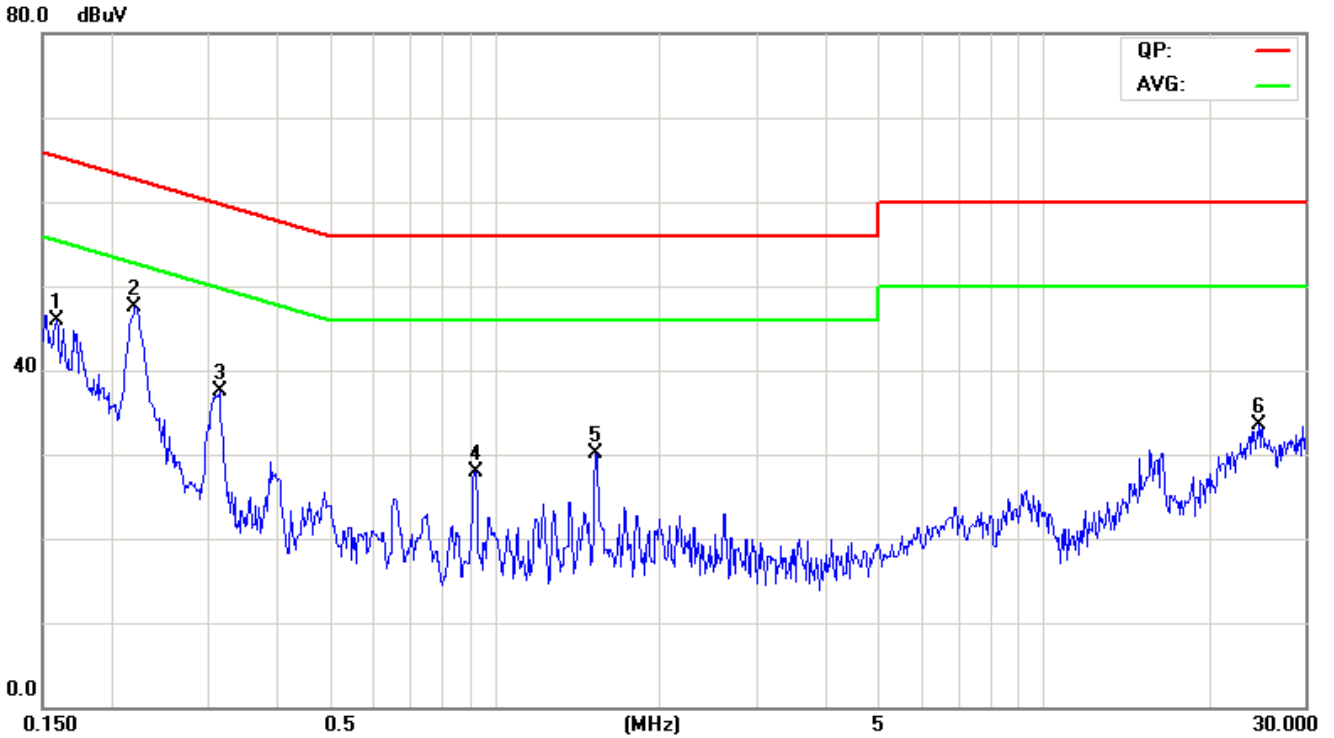
| NO. | Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|-----|-----------------|--------------------------|------------------------|------------------------|-------------------------|-----------------------|------------------------|----------------------|-----------------------|---------------------|--------|
| 1 | 0.1531 | 38.34 | 12.12 | 9.66 | 48.00 | 21.78 | 65.82 | 55.83 | -17.82 | -34.05 | Pass |
| 2 | 0.1713 | 36.04 | 10.90 | 9.66 | 45.70 | 20.56 | 64.89 | 54.90 | -19.19 | -34.34 | Pass |
| 3 | 0.4087 | 31.13 | 27.99 | 9.65 | 40.78 | 37.64 | 57.67 | 47.67 | -16.89 | -10.03 | Pass |
| 4 | 0.4982 | 30.88 | 28.54 | 9.56 | 40.44 | 38.10 | 56.03 | 46.03 | -15.59 | -7.93 | Pass |
| 5 | 0.6795 | 32.75 | 30.96 | 9.56 | 42.31 | 40.52 | 56.00 | 46.00 | -13.69 | -5.48 | Pass |
| 6* | 1.5865 | 33.14 | 31.09 | 9.64 | 42.78 | 40.73 | 56.00 | 46.00 | -13.22 | -5.27 | Pass |

REMARKS: L2 = Line Two (Neutral Line)



CCS Conduction Test 3

| | | | |
|---------------------------------|--------------|----------------------|--------|
| Model No. | 32LD40 | 6dB Bandwidth | 9 kHz |
| Environmental Conditions | 25°C, 57% RH | Test Mode | Mode 9 |
| Tested by | Juicheng Su | Line | L1 |



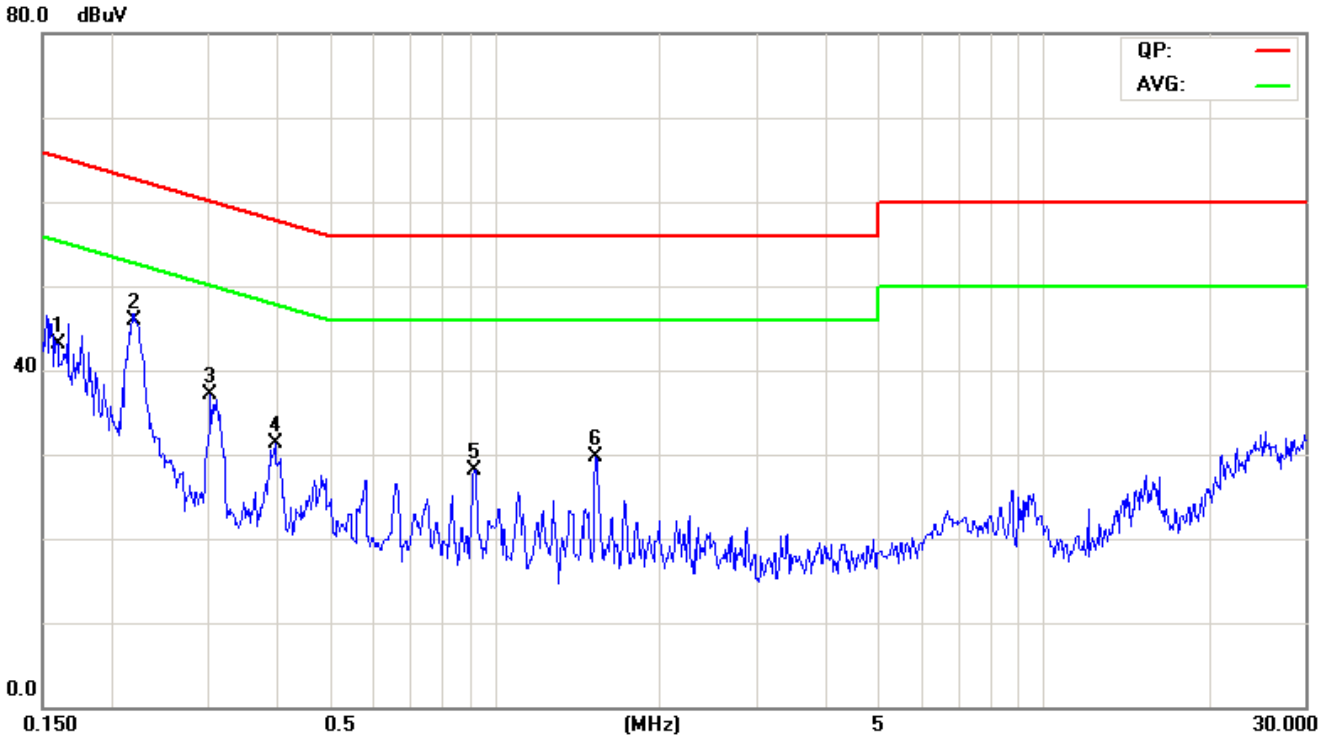
| NO. | Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|-----|--------------------|--------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|--------|
| 1 | 0.1597 | 30.49 | 24.77 | 9.65 | 40.14 | 34.42 | 65.47 | 55.48 | -25.33 | -21.06 | Pass |
| 2* | 0.2195 | 35.67 | 29.51 | 9.65 | 45.32 | 39.16 | 62.83 | 52.84 | -17.51 | -13.68 | Pass |
| 3 | 0.3127 | 21.87 | 14.42 | 9.65 | 31.52 | 24.07 | 59.90 | 49.90 | -28.38 | -25.83 | Pass |
| 4 | 0.9201 | 15.13 | 14.75 | 9.56 | 24.69 | 24.31 | 56.00 | 46.00 | -31.31 | -21.69 | Pass |
| 5 | 1.5308 | 18.52 | 18.42 | 9.62 | 28.14 | 28.04 | 56.00 | 46.00 | -27.86 | -17.96 | Pass |
| 6 | 24.5654 | 17.27 | 12.52 | 10.56 | 27.83 | 23.08 | 60.00 | 50.00 | -32.17 | -26.92 | Pass |

REMARKS: L1 = Line One (Live Line)



CCS Conduction Test 3

| | | | |
|---------------------------------|--------------|----------------------|--------|
| Model No. | 32LD40 | 6dB Bandwidth | 9 kHz |
| Environmental Conditions | 25°C, 57% RH | Test Mode | Mode 9 |
| Tested by | Juicheng Su | Line | L2 |



| NO. | Frequency (MHz) | QuasiPeak | Average | Correction factor (dB) | QuasiPeak | Average | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark (Pass/Fail) |
|-----|--------------------|-------------------|-------------------|------------------------------|------------------|------------------|------------------------------|----------------------------|-----------------------------|---------------------------|-----------------------|
| | | reading (dBuV) | reading (dBuV) | | result (dBuV) | result (dBuV) | | | | | |
| 1 | 0.1615 | 29.60 | 23.44 | 9.66 | 39.26 | 33.10 | 65.38 | 55.39 | -26.12 | -22.29 | Pass |
| 2* | 0.2221 | 34.61 | 28.44 | 9.66 | 44.27 | 38.10 | 62.74 | 52.74 | -18.47 | -14.64 | Pass |
| 3 | 0.3055 | 21.70 | 15.09 | 9.66 | 31.36 | 24.75 | 60.09 | 50.09 | -28.73 | -25.34 | Pass |
| 4 | 0.3954 | 15.43 | 10.22 | 9.66 | 25.09 | 19.88 | 57.95 | 47.95 | -32.86 | -28.07 | Pass |
| 5 | 0.9179 | 16.55 | 16.03 | 9.57 | 26.12 | 25.60 | 56.00 | 46.00 | -29.88 | -20.40 | Pass |
| 6 | 1.5296 | 19.10 | 18.76 | 9.63 | 28.73 | 28.39 | 56.00 | 46.00 | -27.27 | -17.61 | Pass |

REMARKS: L2 = Line Two (Neutral Line)



7 RADIATED EMISSION MEASUREMENT

7.1. LIMITS OF RADIATED EMISSION MEASUREMENT

| FREQUENCY (MHz) | dBuV/m (At 10m) | |
|-----------------|-----------------|---------|
| | Class A | Class B |
| 30 ~ 230 | 40 | 30 |
| 230 ~ 1000 | 47 | 37 |

| Frequency (MHz) | Class A (dBuV/m) (At 3m) | | Class B (dBuV/m) (At 3m) | |
|-----------------|--------------------------|------|--------------------------|------|
| | Average | Peak | Average | Peak |
| Above 960 | 60 | 80 | 54 | 74 |

NOTE: (1) The lower limit shall apply at the transition frequencies.
(2) Emission level (dBuV/m) = 20 log Emission level (uV/m).

According to FCC Part 15.33 (b), for an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

| Highest frequency generated or used in the device or in which the device operated or tunes (MHz) | Upper frequency of measurement range (MHz) |
|--|--|
| Below 1.75 | 30 |
| 1.75-108 | 1000 |
| 108-500 | 2000 |
| 500-1000 | 5000 |
| Above 1000 | 5 th harmonic of the highest frequency or 40GHz, whichever is lower |



7.2. TEST INSTRUMENTS

| Open Area Test Site # 1 | | | | |
|--------------------------------|------------------------------------|--------------|----------------------|------------------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Spectrum Analyzer | ADVANTEST | R3261C | 81720301 | N.C.R |
| EMI Test Receiver | R&S | ESVS20 | 838804/004 | 03/28/2011 |
| Pre-Amplifier | HP | 8447D | 2944A09173 | 04/13/2011 |
| Bilog Antenna | TESEQ | CBL 6112D | 23189 | 06/18/2011 |
| Turn Table | CCS | CC-T-1F | N/A | N.C.R |
| Antenna Tower | CCS | CC-A-1F | N/A | N.C.R |
| Controller | CCS | CC-C-1F | N/A | N.C.R |
| RF Switch | Anritsu | MP59B | M54367 | N.C.R |
| Site NSA | CCS | N/A | N/A | 01/16/2011 |
| Test S/W | LabVIEW 6.1 (CCS OATS EMI SW V2.7) | | | |

| 3 Meter Chamber | | | | |
|--------------------------|---------------------|-------------------------|----------------------|------------------------|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
| Spectrum Analyzer | Agilent | E4446A | MY48250064 | 11/05/2010 |
| Pre-Amplifier | HP | 8449B | 3008A00965 | 04/17/2011 |
| Pre-Amplifier | MITEQ | AMF-6F-260400-4 0-8P | 985646 | 05/24/2011 |
| Horn Antenna | EMCO | 3115 | 9602-4659 | 05/09/2011 |
| Horn Antenna | EMCO | 3116 | 00026370 | 10/13/2010 |
| Low Loss Cable | Huber+Suhner | 104PEA | 24815/4PEA | 08/14/2011 |
| Low Loss Cable | Huber+Suhner | 104PEA | 30956/4PEA | 04/17/2011 |
| Site VSWR | SIDT EUROPE | 9x6x6 | N/A | 02/26/2011 |
| Turn Table | CCS | CC-T-1F | N/A | N.C.R |
| Antenna Tower | CCS | CC-A-1F | N/A | N.C.R |
| Controller | CCS | CC-C-1F | N/A | N.C.R |
| Test S/W | CCS-3A1RE | | | |

NOTE: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. N.C.R = No Calibration Request.



7.3. TEST PROCEDURES (please refer to measurement standard or CCS SOP PA-031)

Procedure of Preliminary Test

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC 120VAC/60Hz power source from the outlet socket under the turntable. All support equipment power received from another socket under the turntable.
- The antenna was placed at 3 or 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 40GHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.1 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.1 producing the highest emission level.
- The worst configuration of EUT and cable of the above highest emission level were recorded for reference of the final test.

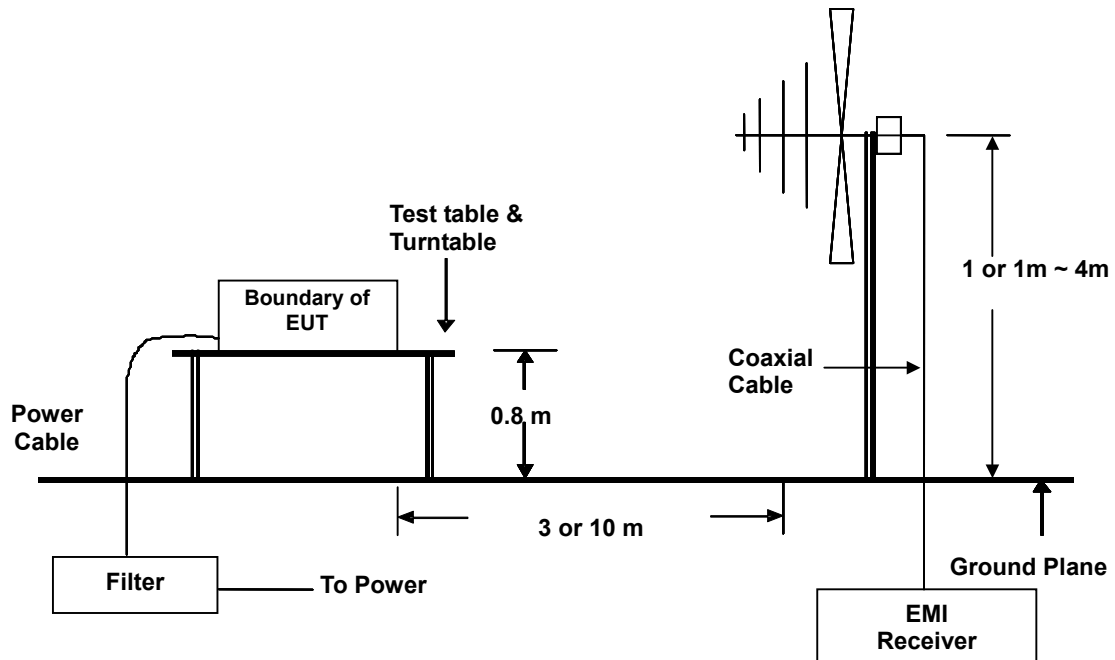
Procedure of Final Test

- EUT and support equipment were set up on the turntable as per the configuration with highest emission level in the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 40GHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 or 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recording at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst-case condition(s) was recorded.

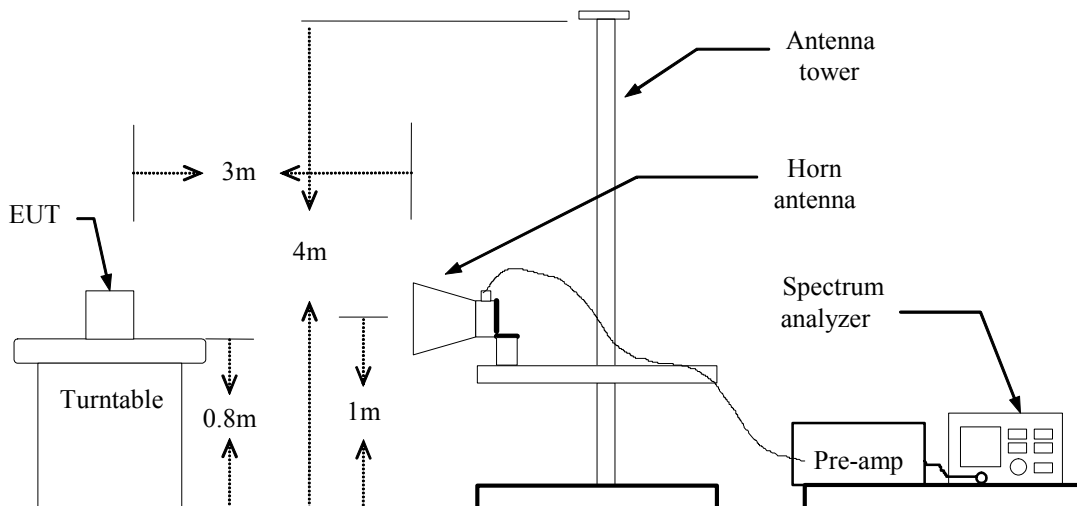


7.4. TEST SETUP

Below 1GHz



Above 1GHz



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



7.5. DATA SAMPLE:

Below 1GHz

| Frequency (MHz) | Reading (dBuV) | Correction Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----------------|----------------|--------------------------|-----------------|----------------|-------------|--------------|-------------|--------|
| xx.xx | 16.49 | 9.86 | 26.35 | 30.00 | -3.65 | 116.00 | 101.00 | QP |

Above 1GHz

| Frequency MHz | Corr. Factor (dB/m) | Reading | | Result | | Limit | | Margin | |
|---------------|---------------------|------------------|---------------|------------------|---------------|------------------|---------------|--------------|-----------|
| | | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dB) | Peak (dB) |
| xxxx.xxx | -4.35 | 49.81 | 58.74 | 45.46 | 54.39 | 54.00 | 74.00 | -8.54 | -19.61 |

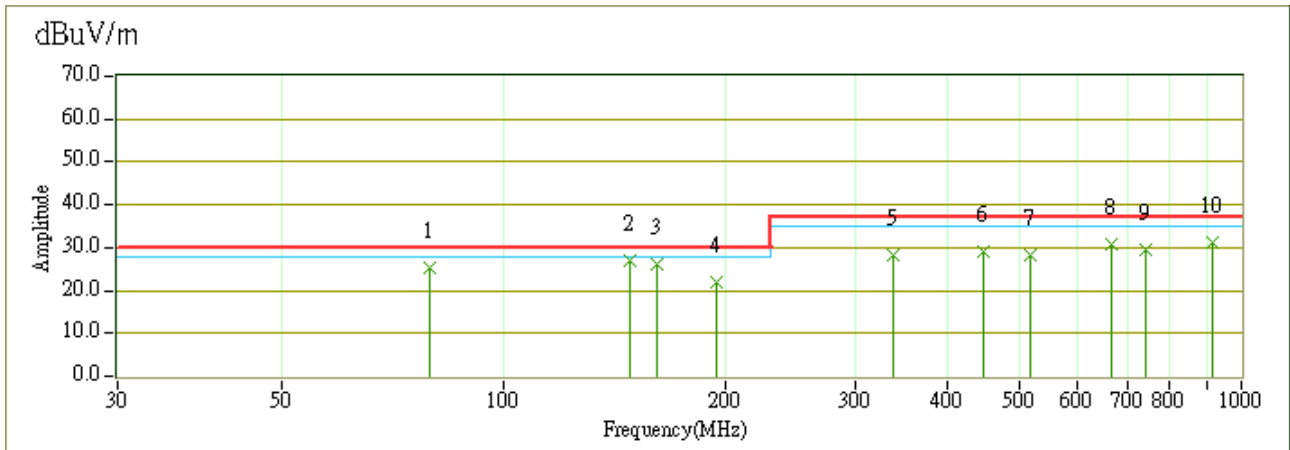
- Frequency (MHz) = Emission frequency in MHz
- Reading (dBuV) = Uncorrected Analyzer / Receiver reading
- Correction Factor (dB/m) = Antenna factor + Cable loss – Amplifier gain
- Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
- Limit (dBuV/m) = Limit stated in standard
- Margin (dB) = Result (dBuV/m) – Limit (dBuV/m)
- Q.P. = Quasi-Peak



7.6. TEST RESULTS

Below 1GHz

| | | | |
|---------------------------------|--------------|-------------------------|---------|
| Model No. | E322VL | Test Mode | Mode 1 |
| Environmental Conditions | 25°C, 56% RH | 6dB Bandwidth | 120 kHz |
| Antenna Pole | Vertical | Antenna Distance | 10m |
| Detector Function | Quasi-peak. | Tested by | Ming Wu |

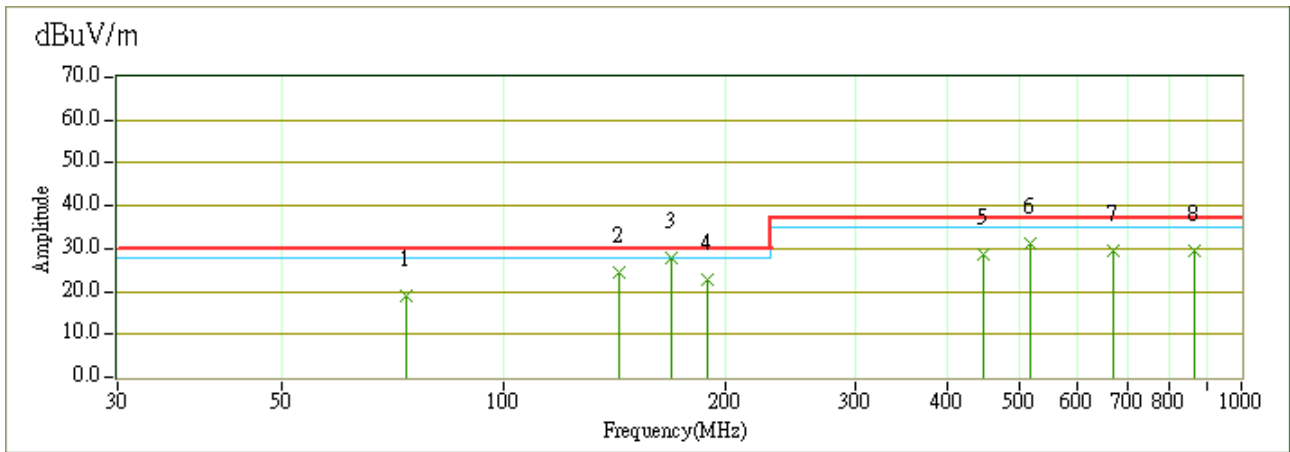


| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 79.28 | 41.79 | -16.54 | 25.25 | 30.00 | -4.75 | 325.50 | 100.00 | QP |
| 2 | 148.13 | 39.31 | -12.31 | 27.00 | 30.00 | -3.00 | 88.50 | 100.00 | QP |
| 3 | 161.50 | 39.48 | -13.53 | 25.95 | 30.00 | -4.05 | 0.00 | 100.00 | QP |
| 4 | 193.94 | 35.08 | -13.18 | 21.90 | 30.00 | -8.10 | 209.80 | 100.00 | QP |
| 5 | 337.50 | 34.72 | -6.52 | 28.20 | 37.00 | -8.80 | 101.90 | 302.00 | QP |
| 6 | 447.97 | 32.08 | -3.01 | 29.07 | 37.00 | -7.93 | 1.50 | 160.00 | QP |
| 7 | 517.10 | 30.74 | -2.34 | 28.40 | 37.00 | -8.60 | 203.70 | 134.10 | QP |
| 8 | 666.90 | 29.99 | 0.61 | 30.60 | 37.00 | -6.40 | 64.60 | 121.00 | QP |
| 9 | 744.00 | 27.55 | 2.05 | 29.60 | 37.00 | -7.40 | 164.90 | 100.00 | QP |
| 10 | 912.30 | 27.10 | 4.17 | 31.27 | 37.00 | -5.73 | 312.00 | 100.00 | QP |

REMARKS: The other emission levels were very low against the limit.



| | | | |
|---------------------------------|--------------|-------------------------|---------|
| Model No. | E322VL | Test Mode | Mode 1 |
| Environmental Conditions | 25°C, 56% RH | 6dB Bandwidth | 120 kHz |
| Antenna Pole | Horizontal | Antenna Distance | 10m |
| Detector Function | Quasi-peak. | Tested by | Ming Wu |

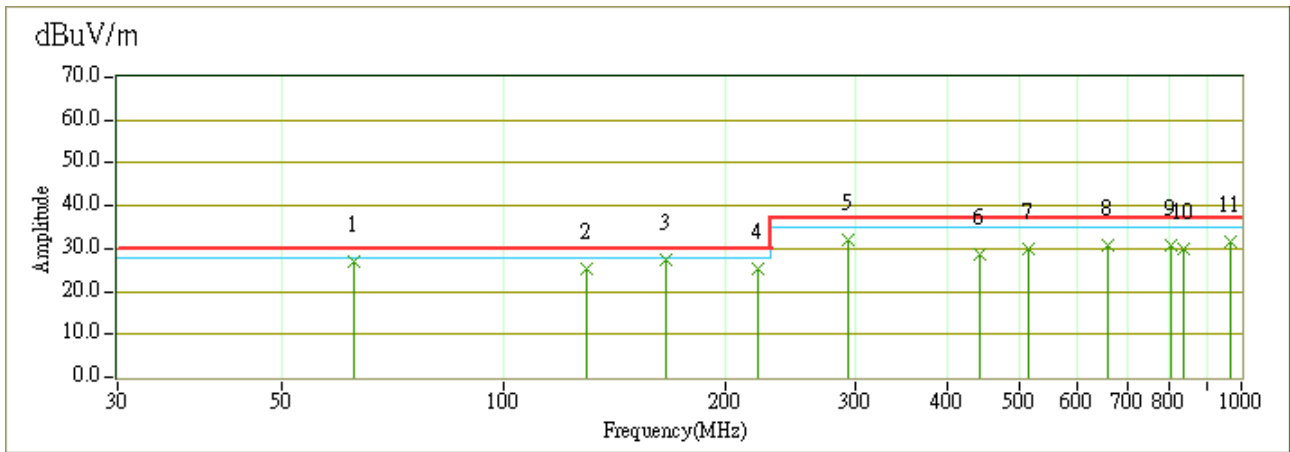


| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 74.00 | 36.42 | -17.42 | 19.00 | 30.00 | -11.00 | 139.60 | 400.00 | QP |
| 2 | 143.46 | 36.29 | -11.84 | 24.45 | 30.00 | -5.55 | 250.40 | 400.00 | QP |
| 3 | 168.64 | 41.60 | -13.65 | 27.95 | 30.00 | -2.05 | 143.50 | 400.00 | QP |
| 4 | 188.64 | 36.08 | -13.43 | 22.65 | 30.00 | -7.35 | 0.00 | 400.00 | QP |
| 5 | 447.30 | 31.63 | -3.03 | 28.60 | 37.00 | -8.40 | 137.40 | 182.00 | QP |
| 6 | 517.00 | 33.69 | -2.34 | 31.35 | 37.00 | -5.65 | 9.50 | 134.80 | QP |
| 7 | 671.40 | 28.94 | 0.66 | 29.60 | 37.00 | -7.40 | 184.80 | 123.40 | QP |
| 8 | 864.60 | 26.60 | 2.90 | 29.50 | 37.00 | -7.50 | 329.80 | 100.00 | QP |

REMARKS: The other emission levels were very low against the limit.



| | | | |
|---------------------------------|--------------|-------------------------|---------|
| Model No. | 32LD40 | Test Mode | Mode 9 |
| Environmental Conditions | 25°C, 56% RH | 6dB Bandwidth | 120 kHz |
| Antenna Pole | Vertical | Antenna Distance | 10m |
| Detector Function | Quasi-peak. | Tested by | Ming Wu |

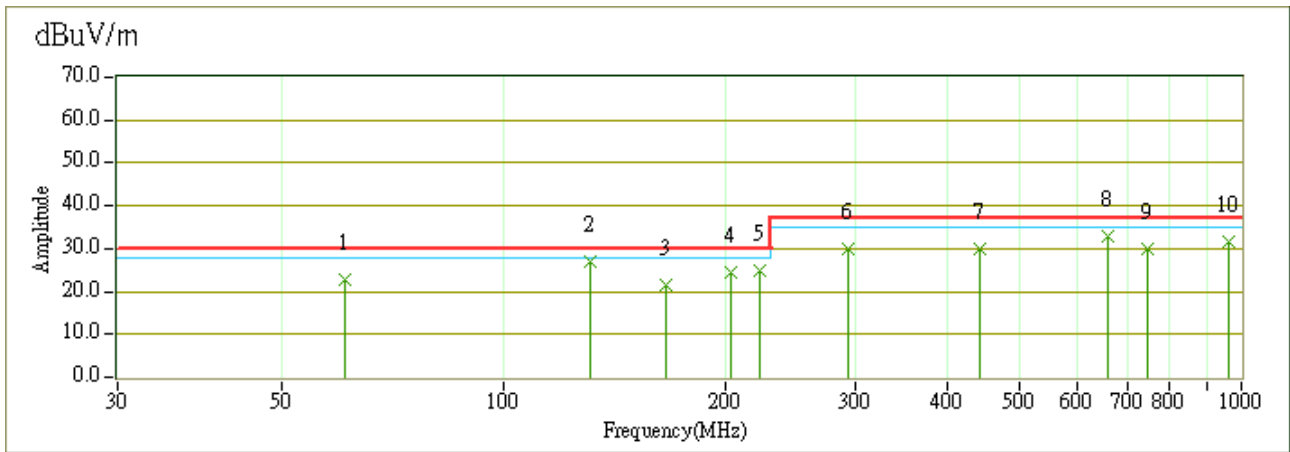


| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 62.64 | 45.52 | -18.52 | 27.00 | 30.00 | -3.00 | 105.40 | 100.00 | QP |
| 2 | 129.36 | 36.46 | -11.26 | 25.20 | 30.00 | -4.80 | 239.50 | 100.00 | QP |
| 3 | 166.24 | 40.93 | -13.61 | 27.32 | 30.00 | -2.68 | 103.40 | 100.00 | QP |
| 4 | 221.81 | 37.68 | -12.26 | 25.42 | 30.00 | -4.58 | 337.30 | 100.00 | QP |
| 5 | 293.73 | 39.15 | -7.15 | 32.00 | 37.00 | -5.00 | 286.70 | 400.00 | QP |
| 6 | 443.34 | 31.66 | -3.15 | 28.50 | 37.00 | -8.50 | 248.60 | 165.90 | QP |
| 7 | 516.07 | 32.22 | -2.37 | 29.85 | 37.00 | -7.15 | 288.50 | 127.90 | QP |
| 8 | 659.60 | 30.28 | 0.52 | 30.80 | 37.00 | -6.20 | 1.00 | 126.30 | QP |
| 9 | 800.90 | 27.97 | 3.00 | 30.97 | 37.00 | -6.03 | 98.60 | 100.00 | QP |
| 10 | 836.00 | 27.30 | 2.70 | 30.00 | 37.00 | -7.00 | 306.10 | 100.00 | QP |
| 11 | 966.10 | 25.94 | 5.58 | 31.52 | 37.00 | -5.48 | 207.70 | 100.00 | QP |

REMARKS: The other emission levels were very low against the limit.



| | | | |
|---------------------------------|--------------|-------------------------|---------|
| Model No. | 32LD40 | Test Mode | Mode 9 |
| Environmental Conditions | 25°C, 56% RH | 6dB Bandwidth | 120 kHz |
| Antenna Pole | Horizontal | Antenna Distance | 10m |
| Detector Function | Quasi-peak. | Tested by | Ming Wu |



| No. | Frequency (MHz) | Reading (dBuV) | Correction Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Degree (°) | Height (cm) | Remark |
|-----|-----------------|----------------|-------------------------|-----------------|----------------|-------------|------------|-------------|--------|
| 1 | 61.04 | 41.41 | -18.61 | 22.80 | 30.00 | -7.20 | 66.00 | 400.00 | QP |
| 2 | 131.22 | 38.10 | -11.30 | 26.80 | 30.00 | -3.20 | 213.30 | 400.00 | QP |
| 3 | 166.46 | 34.98 | -13.61 | 21.37 | 30.00 | -8.63 | 49.70 | 400.00 | QP |
| 4 | 202.82 | 37.42 | -12.82 | 24.60 | 30.00 | -5.40 | 268.60 | 400.00 | QP |
| 5 | 222.46 | 37.16 | -12.24 | 24.92 | 30.00 | -5.08 | 88.10 | 400.00 | QP |
| 6 | 292.90 | 36.97 | -7.17 | 29.80 | 37.00 | -7.20 | 206.70 | 400.00 | QP |
| 7 | 442.40 | 32.98 | -3.18 | 29.80 | 37.00 | -7.20 | 156.00 | 158.00 | QP |
| 8 | 659.60 | 32.28 | 0.52 | 32.80 | 37.00 | -4.20 | 122.70 | 118.50 | QP |
| 9 | 744.40 | 27.74 | 2.06 | 29.80 | 37.00 | -7.20 | 7.10 | 100.00 | QP |
| 10 | 963.10 | 25.95 | 5.60 | 31.55 | 37.00 | -5.45 | 37.90 | 100.00 | QP |

REMARKS: The other emission levels were very low against the limit.



Above 1GHz

| | | | |
|---------------------------------|--------------|-----------------------------|-------------------|
| Model No. | E322VL | Test Mode | Mode 1 |
| Environmental Conditions | 18°C, 60% RH | Test Frequency Range | 1000MHz ~ 3000MHz |
| Antenna Pole | Vertical | Antenna Distance | 3m |
| Detector Function: | Peak/Average | Tested By | Han Chaic |

| Frequency MHz | Corr. Factor (dBuV/m) | Reading | | Result | | Limit | | Margin | | Degree (°) | Height (cm) |
|------------------|-----------------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|-----------------|--------------|---------------|----------------|
| | | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dB) | Peak (dB) | | |
| 1230.000 | -10.22 | -- | 61.32 | -- | 51.10 | -- | 74.00 | -- | -22.90 | 65 | 100 |
| 1500.000 | -8.85 | -- | 60.29 | -- | 51.44 | -- | 74.00 | -- | -22.56 | 178 | 100 |
| 1530.000 | -8.69 | -- | 58.30 | -- | 49.61 | -- | 74.00 | -- | -24.39 | 125 | 100 |
| 1660.000 | -7.97 | -- | 54.86 | -- | 46.89 | -- | 74.00 | -- | -27.11 | 360 | 100 |
| 2000.000 | -6.13 | -- | 52.26 | -- | 46.13 | -- | 74.00 | -- | -27.87 | 225 | 100 |
| 2560.000 | -4.55 | -- | 52.52 | -- | 47.97 | -- | 74.00 | -- | -26.03 | 112 | 100 |

- REMARKS:**
1. The other emission levels were very low against the limit.
 2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.



| | | | |
|---------------------------------|--------------|-----------------------------|-------------------|
| Model No. | E322VL | Test Mode | Mode 1 |
| Environmental Conditions | 18°C, 60% RH | Test Frequency Range | 1000MHz ~ 3000MHz |
| Antenna Pole | Horizontal | Antenna Distance | 3m |
| Detector Function: | Peak/Average | Tested By | Han Chaic |

| Frequency MHz | Corr. Factor (dBuV/m) | Reading | | Result | | Limit | | Margin | | Degree (°) | Height (cm) |
|------------------|-----------------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|-----------------|--------------|---------------|----------------|
| | | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dB) | Peak (dB) | | |
| 1260.000 | -10.07 | -- | 57.16 | -- | 47.09 | -- | 74.00 | -- | -26.91 | 48 | 100 |
| 1550.000 | -8.85 | -- | 58.28 | -- | 49.43 | -- | 74.00 | -- | -24.57 | 169 | 100 |
| 15830.000 | -8.69 | -- | 57.60 | -- | 48.91 | -- | 74.00 | -- | -25.09 | 258 | 100 |
| 1750.000 | -7.49 | -- | 56.59 | -- | 49.10 | -- | 74.00 | -- | -24.90 | 360 | 100 |
| 2050.000 | -5.99 | -- | 52.77 | -- | 46.78 | -- | 74.00 | -- | -27.22 | 224 | 100 |
| 2510.000 | -4.75 | -- | 54.45 | -- | 49.70 | -- | 74.00 | -- | -24.30 | 115 | 100 |

- REMARKS:**
1. The other emission levels were very low against the limit.
 2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.



| | | | |
|---------------------------------|--------------|-----------------------------|-------------------|
| Model No. | 32LD40 | Test Mode | Mode 9 |
| Environmental Conditions | 18°C, 60% RH | Test Frequency Range | 1000MHz ~ 3000MHz |
| Antenna Pole | Vertical | Antenna Distance | 3m |
| Detector Function: | Peak/Average | Tested By | Han Chaic |

| Frequency MHz | Corr. Factor (dBuV/m) | Reading | | Result | | Limit | | Margin | | Degree (°) | Height (cm) |
|------------------|-----------------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|-----------------|--------------|---------------|----------------|
| | | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dB) | Peak (dB) | | |
| 1270.000 | -10.02 | -- | 60.54 | -- | 50.52 | -- | 74.00 | -- | -23.48 | 350 | 100 |
| 1470.000 | -9.00 | -- | 59.70 | -- | 50.70 | -- | 74.00 | -- | -23.30 | 178 | 100 |
| 1560.000 | -8.52 | -- | 59.97 | -- | 51.45 | -- | 74.00 | -- | -22.55 | 360 | 100 |
| 1651.514 | -8.02 | -- | 57.77 | -- | 49.75 | -- | 74.00 | -- | -24.25 | 155 | 100 |
| 1860.000 | -6.89 | -- | 56.19 | -- | 49.30 | -- | 74.00 | -- | -24.70 | 236 | 100 |
| 2440.000 | -4.96 | -- | 56.73 | -- | 51.77 | -- | 74.00 | -- | -22.23 | 225 | 100 |

- REMARKS:**
1. The other emission levels were very low against the limit.
 2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.



| | | | |
|---------------------------------|--------------|-----------------------------|-------------------|
| Model No. | 32LD40 | Test Mode | Mode 9 |
| Environmental Conditions | 18°C, 60% RH | Test Frequency Range | 1000MHz ~ 3000MHz |
| Antenna Pole | Horizontal | Antenna Distance | 3m |
| Detector Function: | Peak/Average | Tested By | Han Chaic |

| Frequency MHz | Corr. Factor (dBuV/m) | Reading | | Result | | Limit | | Margin | | Degree (°) | Height (cm) |
|------------------|-----------------------------|---------------------|------------------|---------------------|------------------|---------------------|------------------|-----------------|--------------|---------------|----------------|
| | | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dBuV/m) | Peak (dBuV/m) | Average (dB) | Peak (dB) | | |
| 1262.292 | -10.06 | -- | 59.81 | -- | 49.75 | -- | 74.00 | -- | -24.25 | 312 | 100 |
| 1470.000 | -9.00 | -- | 59.26 | -- | 50.26 | -- | 74.00 | -- | -23.74 | 126 | 100 |
| 1660.000 | -7.97 | -- | 58.29 | -- | 50.32 | -- | 74.00 | -- | -23.68 | 45 | 100 |
| 1940.000 | -6.46 | -- | 56.54 | -- | 50.08 | -- | 74.00 | -- | -23.92 | 355 | 100 |
| 2150.000 | -5.72 | -- | 57.09 | -- | 51.37 | -- | 74.00 | -- | -22.63 | 236 | 100 |
| 2450.000 | -4.92 | -- | 56.00 | -- | 51.08 | -- | 74.00 | -- | -22.92 | 144 | 100 |

- REMARKS:**
1. The other emission levels were very low against the limit.
 2. "--", means the average measurement was not performed when the measured peak data under the limit of average detection.



8 PHOTOGRAPHS OF THE TEST CONFIGURATION

CONDUCTED EMISSION TEST

Mode 1





Mode 9





RADIATED EMISSION TEST

Mode 1





Mode 9

