

FCC REPORT

Applicant: HUAWEI TECHNOLOGIES CO.,LTD.

Address of Applicant: Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Equipment Under Test (EUT)

Product Name: Laptop Docking

Model No.: S10-D01

FCC ID: QISS10-D01

Applicable standards: FCC CFR Title 47 Part 15 Subpart B: 2010

Date of sample receipt: 12 Sep., 2012

Date of Test: 12 to 13 Sep., 2012

Date of report issued: 14 Sep., 2012

Test Result : Pass *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 14 Sep., 2012 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:

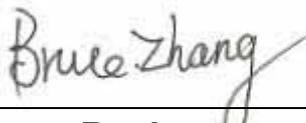


Project Engineer

Date:

14 Sep., 2012

Check By:



Reviewer

Date:

14 Sep., 2012

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4 Test Summary

| Test Item | Section in CFR 47 | Result |
|--------------------|-------------------|--------|
| Conducted Emission | Part15.107 | Pass |
| Radiated Emissions | Part15.109 | Pass |

Pass: The EUT complies with the essential requirements in the standard.

5 General Information

5.1 Client Information

| | |
|--------------------------|---|
| Applicant: | Huawei Technologies Co., Ltd. |
| Address of Applicant: | Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C |
| Manufacturer: | Huawei Technologies Co., Ltd. |
| Address of Manufacturer/ | Administration Building, Headquarters of Huawei Technologies Co., Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C |
| Factory: | HUIZHOU BYD ELECTRONIC CO.,LTD. |
| Address of Factory: | Xiangshui River,Economic Development Zone,Daya Bay, Huizhou,Guangdong,516083,P.R.China |

5.2 General Description of E.U.T.

| | |
|--|----------------|
| Product Name: | Laptop Docking |
| Model No.: | S10-D01 |
| Test voltage: | AC 120V/ 60Hz |
| The highest frequency of the internal sources of EUT : 24MHz | |

5.3 Operating Modes

| Operating mode | Detail description |
|---------------------------|---|
| Charging & Data exchange | Keep the EUT in data exchange with u-disk by USB port |
| Charging & Keyboard entry | Keep the EUT in keyboard entry mode |

5.4 Description of Support Units

| Manufacturer | Description | Model | Serial Number | FCC ID/DoC |
|--------------|-------------|-------------------|--------------------------|------------|
| Huawei | Laptop | S10-101u | N/A | FCC ID |
| HOOK | Udisk | PNY | N/A | DoC |
| HP | Printer | HP LaserJet P1007 | NVNFN746953 | DoC |
| DELL | PC | OPTIPLEX 745 | N/A | DoC |
| DELL | Monitor | E2210c | CN-0NYCRV-64180-19G-OKDM | DoC |

5.5 Deviation from Standards

| |
|------|
| None |
|------|

5.6 Abnormalities from Standard Conditions

| |
|-------|
| None. |
|-------|

5.7 Other Information Requested by the Customer

None.

5.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC —Registration No.:** 817957

China Certification & Inspection Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in out files. Registration 817957, February 27, 2012

● **Industry Canada (IC)**

The 3m Semi-anechoic chamber of China Certification & Inspection Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

5.9 Test Location

All tests were performed at:

China Certification & Inspection Services Co., Ltd.

Address: 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China

Tel: 0755-23118282

Fax: 0755-23116366

6 Test Instruments list

| Radiated Emission: | | | | | | |
|--------------------|-------------------------------|--------------------------------------|-------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | 3m Semi- Anechoic Chamber | SAEMC | 9(L)*6(W)* 6(H) | CCIS0001 | Aug. 09 2012 | Aug. 09 2013 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCI | CCIS0002 | June 16 2012 | June 16 2013 |
| 3 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | CCIS0005 | June 09 2012 | June 09 2013 |
| 4 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA9120D | CCIS0006 | June 09 2012 | June 09 2013 |
| 5 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 6 | Coaxial Cable | CCIS | N/A | CCIS0016 | Mar. 01 2012 | Mar. 01 2013 |
| 7 | Coaxial Cable | CCIS | N/A | CCIS0017 | Mar. 01 2012 | Mar. 01 2013 |
| 8 | Coaxial cable | CCIS | N/A | CCIS0018 | Mar. 01 2012 | Mar. 01 2013 |
| 9 | Coaxial Cable | CCIS | N/A | CCIS0019 | Mar. 01 2012 | Mar. 01 2013 |
| 10 | Coaxial Cable | CCIS | N/A | CCIS0087 | Mar. 01 2012 | Mar. 01 2013 |
| 11 | Amplifier(10KHz-1.3GHz) | HP | 8447D | CCIS0003 | Aug. 03 2012 | Aug. 03 2013 |
| 12 | Amplifier(1GHz-18GHz) | Compliance Direction Systems Inc. | PAP-1G18 | CCIS0011 | Aug. 05 2012 | Aug. 05 2013 |
| 13 | Spectrum analyzer | Rohde & Schwarz | FSP | CCIS0023 | June 22 2012 | June 22 2013 |
| 14 | EMI Test Receiver | Rohde & Schwarz | ECSI | CCIS0002 | June16 2012 | June 16 2013 |
| 15 | Printer | Hp | HP LaserJet P1007 | N/A | N/A | N/A |

| Conducted Emission: | | | | | | |
|---------------------|-------------------|--------------------|-----------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Shielding Room | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061 | June 09 2012 | June 09 2013 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESPI | CCIS0022 | Apr 01 2012 | Apr 01 2013 |
| 3 | LISN | CHASE | MN2050D | CCIS0074 | Apr 01 2012 | Apr 01 2013 |
| 4 | Coaxial Cable | CCIS | N/A | CCIS0086 | Apr. 01 2012 | Apr. 01 2013 |
| 5 | Shielding Room | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061 | June 09 2012 | June 09 2013 |

7 Test results and Measurement Data

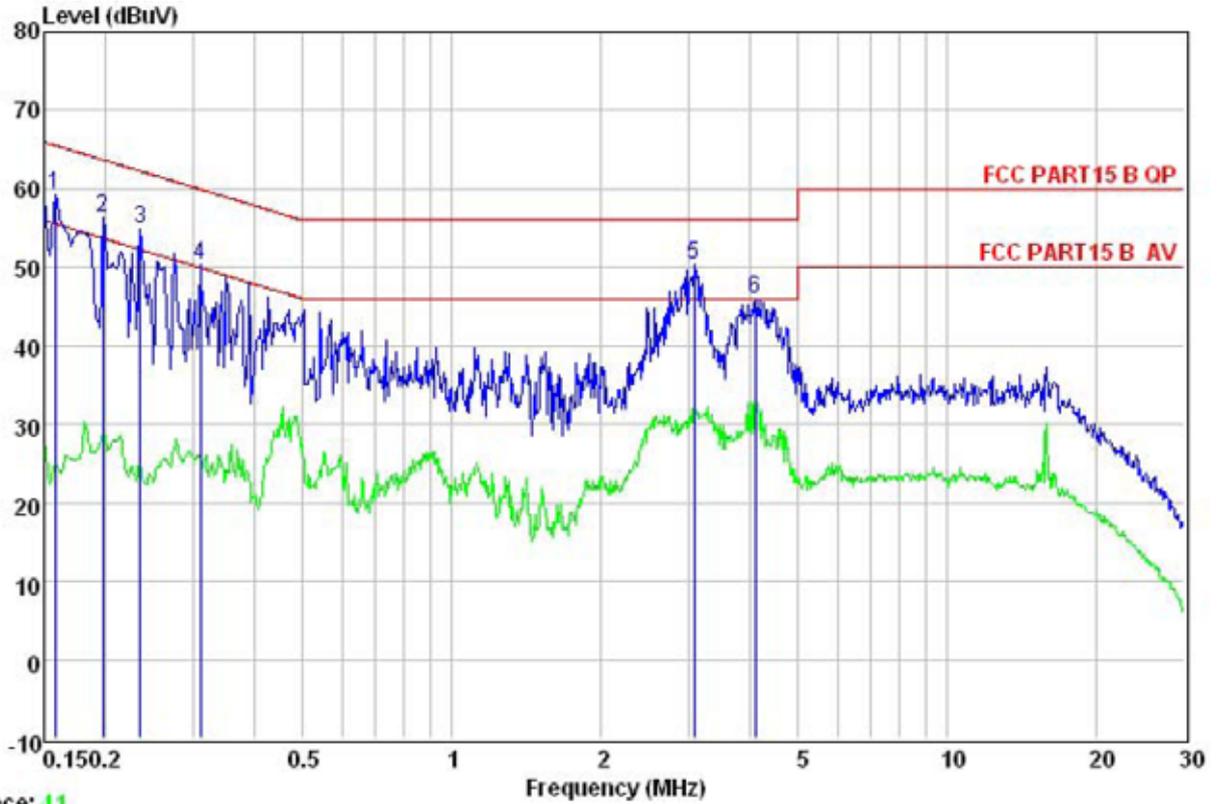
7.1 Conducted Emissions

| Test Requirement: | FCC Part15 B Section 15.107 | | | | | | | | | | | | | | |
|-----------------------|--|-----------------------|--------------------|--|------------|---------|----------|-----------|-----------|-------|----|----|--------|----|----|
| Test Method: | ANSI C63.4:2003 | | | | | | | | | | | | | | |
| Test Frequency Range: | 150kHz to 30MHz | | | | | | | | | | | | | | |
| Class / Severity: | Class B | | | | | | | | | | | | | | |
| Receiver setup: | RBW=9kHz, VBW=30kHz | | | | | | | | | | | | | | |
| Limit: | <table border="1"> <thead> <tr> <th rowspan="2">Frequency range (MHz)</th> <th colspan="2">Limit (dBμV)</th> </tr> <tr> <th>Quasi-peak</th> <th>Average</th> </tr> </thead> <tbody> <tr> <td>0.15-0.5</td> <td>66 to 56*</td> <td>56 to 46*</td> </tr> <tr> <td>0.5-5</td> <td>56</td> <td>46</td> </tr> <tr> <td>0.5-30</td> <td>60</td> <td>50</td> </tr> </tbody> </table> | Frequency range (MHz) | Limit (dB μ V) | | Quasi-peak | Average | 0.15-0.5 | 66 to 56* | 56 to 46* | 0.5-5 | 56 | 46 | 0.5-30 | 60 | 50 |
| Frequency range (MHz) | Limit (dB μ V) | | | | | | | | | | | | | | |
| | Quasi-peak | Average | | | | | | | | | | | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | | | | | | | | | | | |
| 0.5-5 | 56 | 46 | | | | | | | | | | | | | |
| 0.5-30 | 60 | 50 | | | | | | | | | | | | | |
| Test setup: | <p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p> | | | | | | | | | | | | | | |
| Test procedure | <ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2003 on conducted measurement. | | | | | | | | | | | | | | |
| Test environment: | Temp.: 25 °C Humid.: 52% Press.: 1 012mbar | | | | | | | | | | | | | | |
| Measurement Record: | Uncertainty: 3.28dB | | | | | | | | | | | | | | |
| Test Instruments: | Refer to section 6 for details | | | | | | | | | | | | | | |
| Test mode: | Refer to section 5.3 for details | | | | | | | | | | | | | | |
| Test results: | Pass | | | | | | | | | | | | | | |

Measurement data:

Charging & Data exchange mode:

Line:

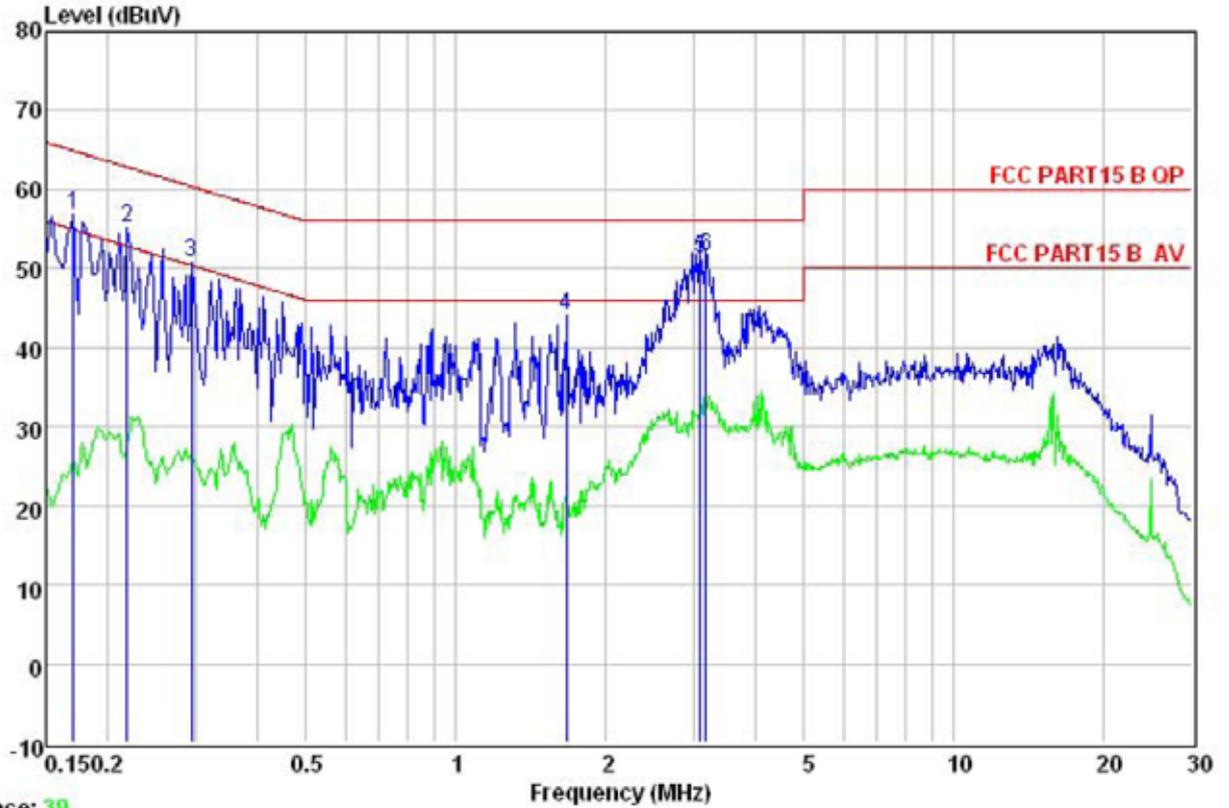


Trace: 41

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job NO. : 153IT
 Test Mode : Downloading Pad USB
 Test Engineer: Vincent

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|-------|------------|-------------|------------|-------|------------|------------|--------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.158 | 48.10 | 10.24 | 0.79 | 59.13 | 65.56 | -6.43 | QP |
| 2 | 0.198 | 45.29 | 10.21 | 0.76 | 56.26 | 63.71 | -7.45 | QP |
| 3 | 0.234 | 44.04 | 10.23 | 0.75 | 55.02 | 62.30 | -7.28 | QP |
| 4 | 0.310 | 39.43 | 10.26 | 0.74 | 50.43 | 59.97 | -9.54 | QP |
| 5 | 3.074 | 39.03 | 10.29 | 0.91 | 50.23 | 56.00 | -5.77 | QP |
| 6 | 4.092 | 34.89 | 10.29 | 0.89 | 46.07 | 56.00 | -9.93 | QP |

Neutral:



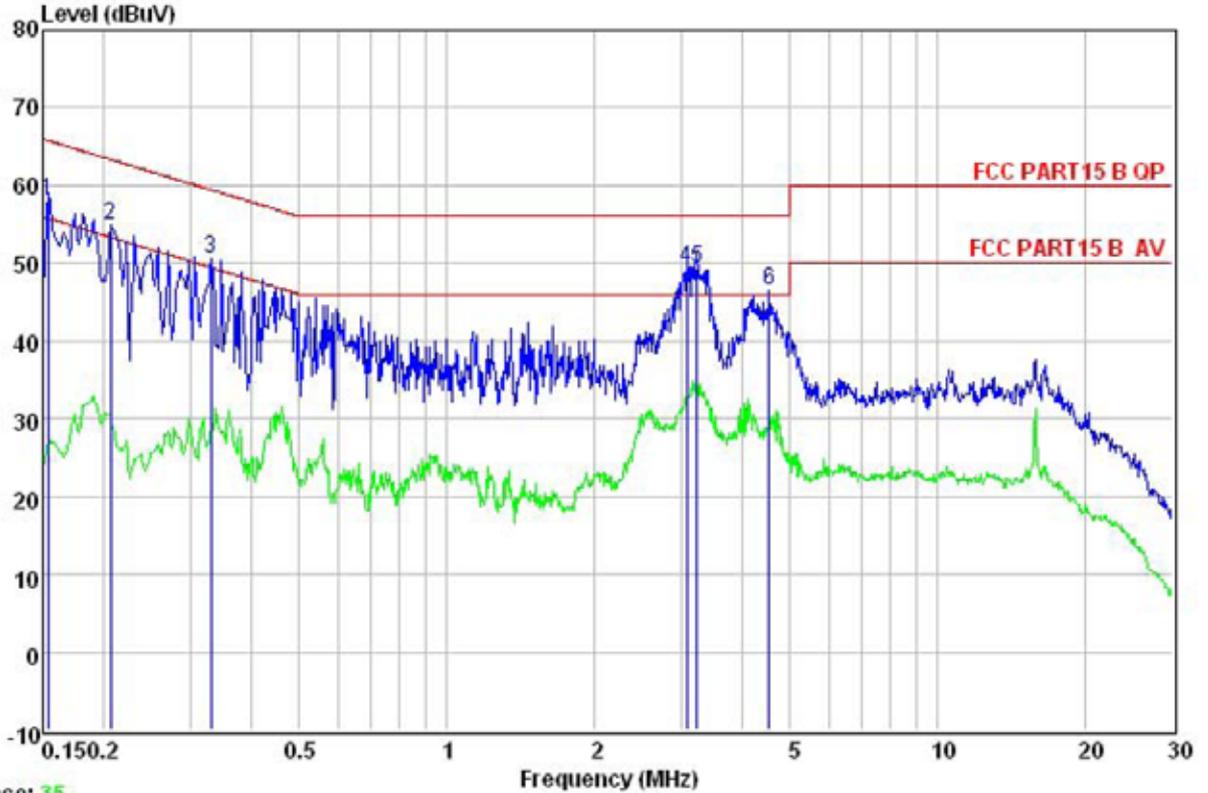
Trace: 39

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job NO. : 153IT
 Test Mode : Downloading Pad USB
 Test Engineer: Vincent

| | Read Freq | Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|-----------|-------|-------------|------------|-------|------------|------------|--------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.170 | 45.73 | 10.25 | 0.78 | 56.76 | 64.94 | -8.18 | QP |
| 2 | 0.219 | 44.05 | 10.23 | 0.76 | 55.04 | 62.88 | -7.84 | QP |
| 3 | 0.294 | 39.93 | 10.24 | 0.74 | 50.91 | 60.41 | -9.50 | QP |
| 4 | 1.662 | 33.58 | 10.25 | 0.15 | 43.98 | 56.00 | -12.02 | QP |
| 5 | 3.090 | 40.10 | 10.28 | 0.91 | 51.29 | 56.00 | -4.71 | QP |
| 6 | 3.173 | 40.33 | 10.28 | 0.91 | 51.52 | 56.00 | -4.48 | QP |

Charging & Keyboard entry Mode:

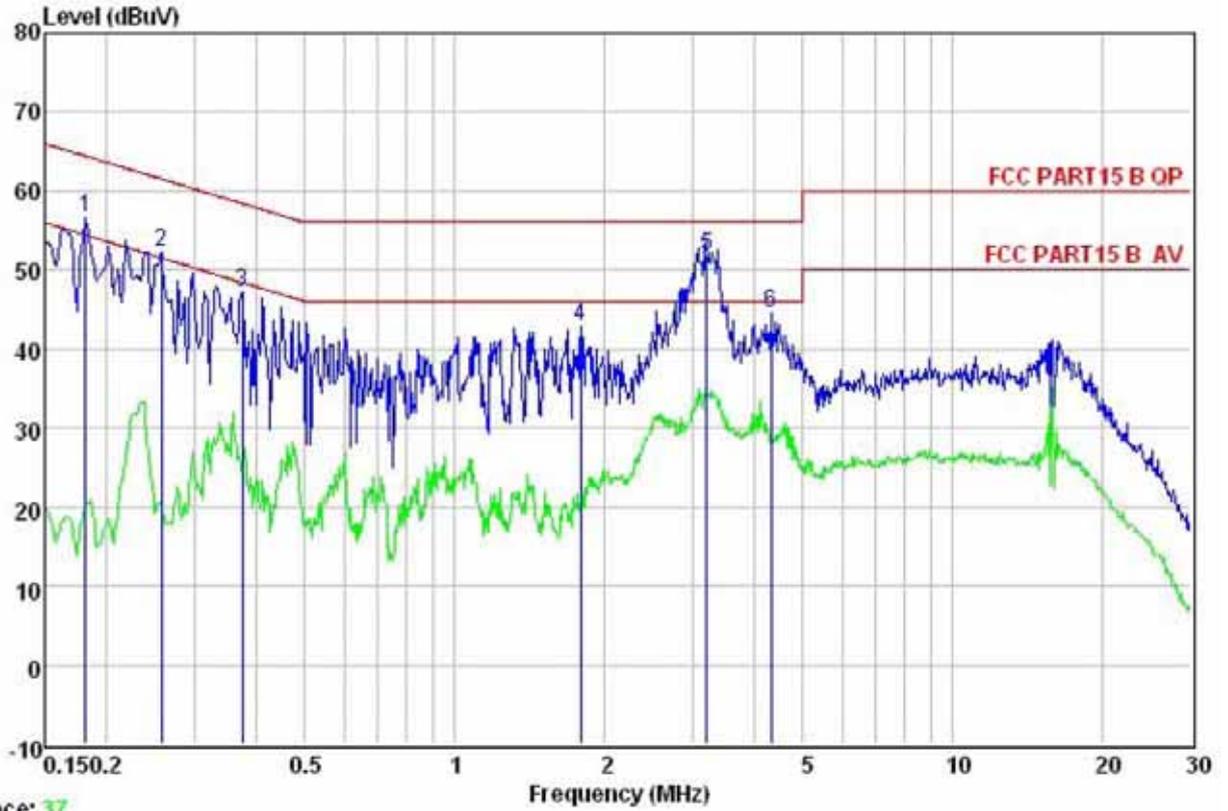
Line:



Trace: 35
 Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN LINE
 Job NO. : 153IT
 Test Mode : writing mode
 Test Engineer: Vincent

| | Read Freq | LISN Level | Cable Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|-----------|------------|--------------|------------|-------|------------|------------|--------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.154 | 46.89 | 10.25 | 0.79 | 57.93 | 65.78 | -7.85 | QP |
| 2 | 0.206 | 43.94 | 10.21 | 0.76 | 54.91 | 63.36 | -8.45 | QP |
| 3 | 0.330 | 39.65 | 10.27 | 0.73 | 50.65 | 59.44 | -8.79 | QP |
| 4 | 3.074 | 38.16 | 10.29 | 0.91 | 49.36 | 56.00 | -6.64 | QP |
| 5 | 3.224 | 38.14 | 10.29 | 0.90 | 49.33 | 56.00 | -6.67 | QP |
| 6 | 4.525 | 35.23 | 10.29 | 0.88 | 46.40 | 56.00 | -9.60 | QP |

Neutral:



Trace: 37

Site : CCIS Conducted Test Site
 Condition : FCC PART15 B QP LISN NEUTRAL
 Job NO. : 153IT
 Test Mode : writing mode
 Test Engineer: Vincent

| | Read Freq | Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|-----------|-------|-------------|------------|-------|------------|------------|--------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.182 | 45.51 | 10.24 | 0.77 | 56.52 | 64.42 | -7.90 | QP |
| 2 | 0.258 | 41.38 | 10.24 | 0.75 | 52.37 | 61.51 | -9.14 | QP |
| 3 | 0.373 | 36.29 | 10.26 | 0.72 | 47.27 | 58.43 | -11.16 | QP |
| 4 | 1.790 | 32.54 | 10.26 | 0.08 | 42.88 | 58.00 | -13.12 | QP |
| 5 | 3.207 | 40.59 | 10.28 | 0.91 | 51.78 | 56.00 | -4.22 | QP |
| 6 | 4.315 | 33.38 | 10.28 | 0.88 | 44.54 | 56.00 | -11.46 | QP |

7.2 Radiated Emission

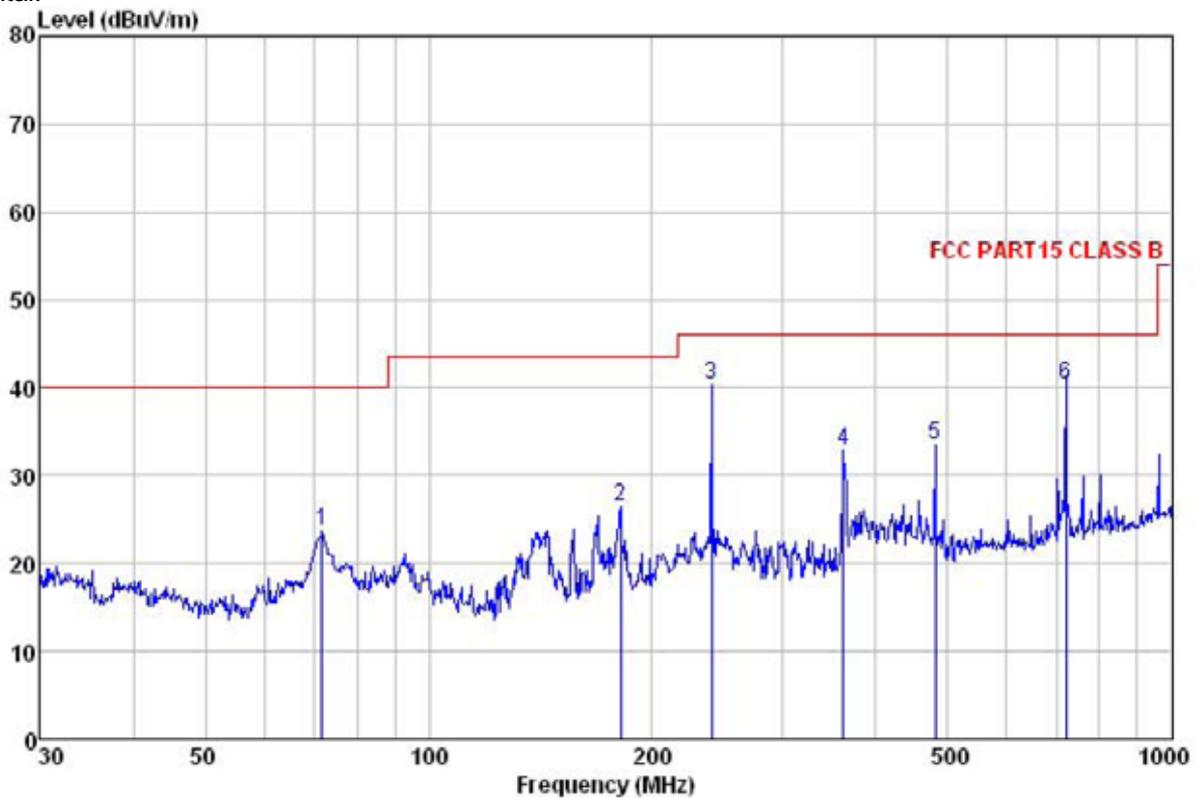
| | | | | | |
|-----------------------|---|--------------------|------------------|--------|------------------|
| Test Requirement: | FCC Part15 B Section 15.109 | | | | |
| Test Method: | ANSI C63.4:2003 | | | | |
| Test Frequency Range: | 30MHz to 1000MHz | | | | |
| Remark: | The highest internal sources frequency of EUT is 24 MHz, so the test frequency range is 30MHz~1000MHz. | | | | |
| Test site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Remark |
| | 30MHz-1GHz | Quasi-peak | 100KHz | 300KHz | Quasi-peak Value |
| Limit: | Frequency | Limit (dBuV/m @3m) | Remark | | |
| | 30MHz-88MHz | 40.0 | Quasi-peak Value | | |
| | 88MHz-216MHz | 43.5 | Quasi-peak Value | | |
| | 216MHz-960MHz | 46.0 | Quasi-peak Value | | |
| | 960MHz-1GHz | 54.0 | Quasi-peak Value | | |
| Test setup: | | | | | |
| Test Procedure: | <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. | | | | |

| | | | |
|---------------------|----------------------------------|-------------|-------------------|
| Test environment: | Temp.: 25 °C | Humid.: 52% | Press.: 1 012mbar |
| Measurement Record: | Uncertainty: 4.88dB | | |
| Test Instruments: | Refer to section 6 for details | | |
| Test mode: | Refer to section 5.3 for details | | |
| Test results: | Passed | | |

Measurement Data

Charging & Data exchange mode:

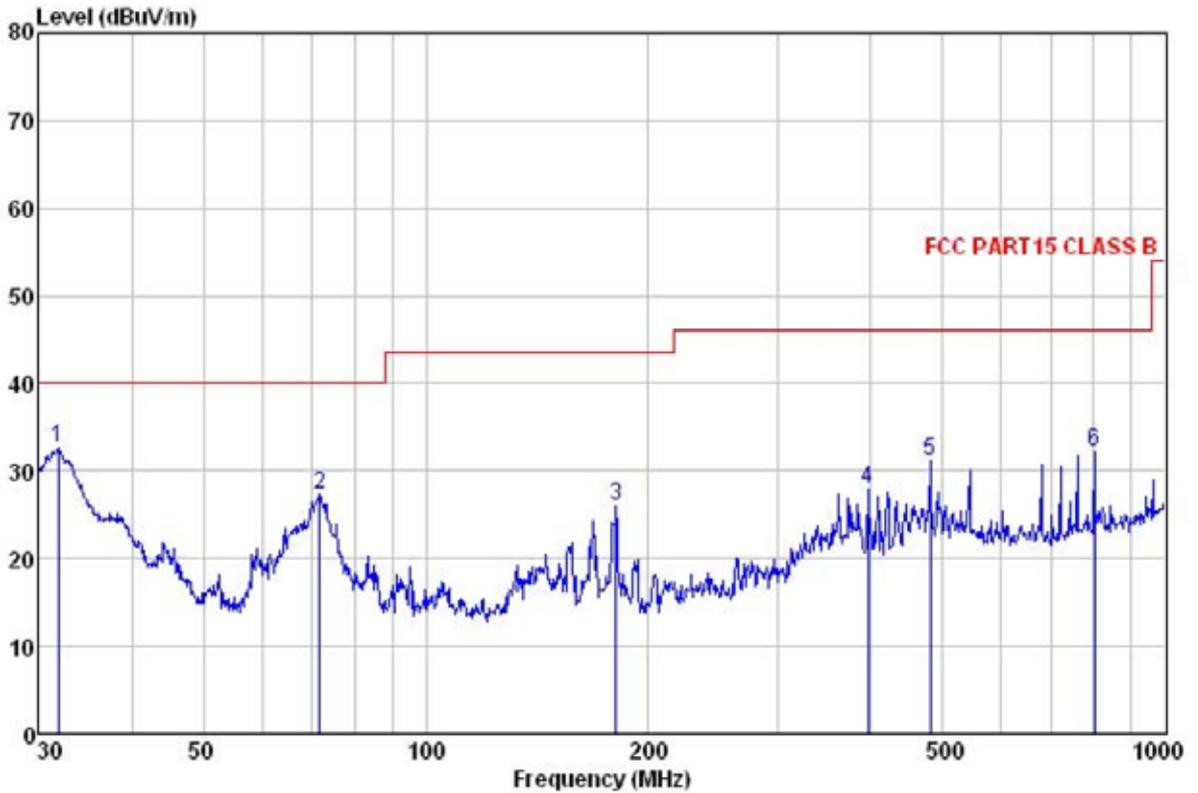
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
 Job No. : 153IT
 Test mode : Downloading pad with USB Mode
 Test Engineer: Vincent

| | Freq | ReadAntenna | Cable Preamp | Level | Limit | Over | Remark |
|---|---------|-------------|--------------|--------|--------|-------|-----------|
| | MHz | dBuV | Loss Factor | dB | Line | Limit | |
| | | dB/m | dB | dBuV/m | dBuV/m | dB | |
| 1 | 71.832 | 43.85 | 8.32 | 30.14 | 23.59 | 40.00 | -16.41 QP |
| 2 | 181.283 | 40.75 | 9.76 | 2.74 | 26.77 | 43.50 | -17.02 QP |
| 3 | 239.987 | 55.04 | 12.09 | 2.82 | 29.64 | 46.00 | -5.69 QP |
| 4 | 361.714 | 45.02 | 14.43 | 3.10 | 29.73 | 46.00 | -13.18 QP |
| 5 | 480.528 | 44.46 | 16.07 | 3.46 | 30.52 | 46.00 | -12.53 QP |
| 6 | 721.726 | 47.59 | 19.10 | 4.26 | 30.55 | 46.00 | -5.60 QP |

Vertical:

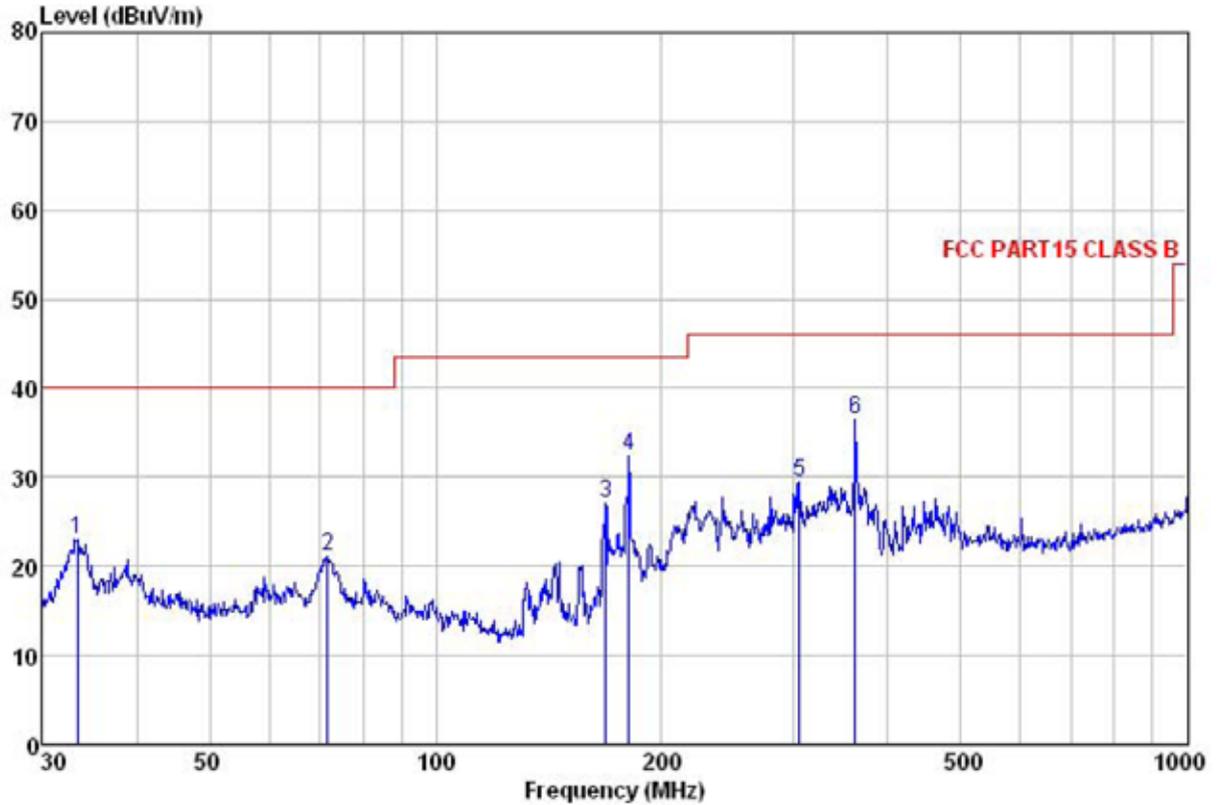


Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) VERTICAL
 Job No. : 153IT
 Test mode : Downloading pad with USB Mode
 Test Engineer: Vincent

| | Read | Antenna | Cable | Preamp | Limit | Over | | |
|------|---------|---------|-------|--------|--------|--------|-------|-----------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 31.843 | 45.88 | 12.32 | 0.85 | 26.47 | 32.58 | 40.00 | -7.42 QP |
| 2 | 71.832 | 47.51 | 8.32 | 1.56 | 30.14 | 27.25 | 40.00 | -12.75 QP |
| 3 | 180.649 | 40.34 | 9.76 | 2.73 | 26.77 | 26.06 | 43.50 | -17.44 QP |
| 4 | 396.242 | 39.87 | 14.97 | 3.08 | 29.88 | 28.04 | 46.00 | -17.96 QP |
| 5 | 480.528 | 42.12 | 16.07 | 3.46 | 30.52 | 31.13 | 46.00 | -14.87 QP |
| 6 | 801.786 | 38.23 | 20.06 | 4.34 | 30.40 | 32.23 | 46.00 | -13.77 QP |

Charging & Keyboard entry mode:

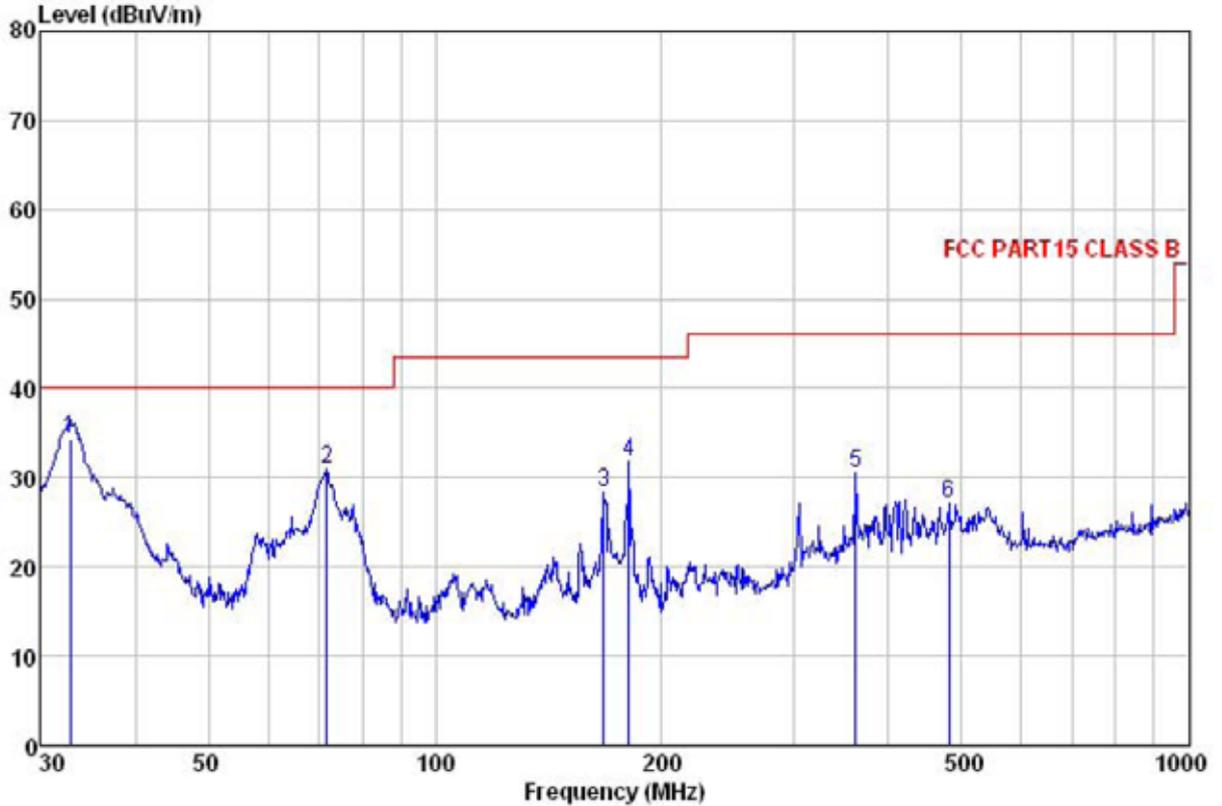
Horizontal:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) HORIZONTAL
 Job No. : 153IT
 Test mode : Writing Mode
 Test Engineer: Vincent

| | Read | Antenna | Cable | Preamp | Level | Limit | Over | |
|------|---------|---------|-------|--------|--------|--------|-------|-----------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 33.328 | 36.47 | 12.31 | 0.98 | 26.63 | 23.13 | 40.00 | -16.87 QP |
| 2 | 71.832 | 41.30 | 8.32 | 1.56 | 30.14 | 21.04 | 40.00 | -18.96 QP |
| 3 | 168.414 | 44.50 | 8.92 | 2.64 | 28.94 | 27.12 | 43.50 | -16.38 QP |
| 4 | 180.649 | 46.66 | 9.76 | 2.73 | 26.77 | 32.38 | 43.50 | -11.12 QP |
| 5 | 304.610 | 42.83 | 13.13 | 2.95 | 29.45 | 29.46 | 46.00 | -16.54 QP |
| 6 | 361.714 | 48.68 | 14.43 | 3.10 | 29.73 | 36.48 | 46.00 | -9.52 QP |

Vertical:



Site : 3m chamber
 Condition : FCC PART15 CLASS B 3m VULB9163(2012.4.1) VERTICAL
 Job No. : 153IT
 Test mode : Writing Mode
 Test Engineer: Vincent

| | Freq | ReadAntenna | Cable Preamp | Limit | Over | | | |
|---|---------|-------------|--------------|-------|-------|--------|--------|-----------|
| | MHz | Level | Loss Factor | Line | Limit | Remark | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 32.749 | 47.79 | 12.31 | 0.91 | 26.57 | 34.44 | 40.00 | -5.56 QP |
| 2 | 71.832 | 51.21 | 8.32 | 1.56 | 30.14 | 30.95 | 40.00 | -9.05 QP |
| 3 | 167.237 | 46.01 | 8.87 | 2.64 | 29.09 | 28.43 | 43.50 | -15.07 QP |
| 4 | 180.649 | 46.06 | 9.76 | 2.73 | 26.77 | 31.78 | 43.50 | -11.72 QP |
| 5 | 361.714 | 42.64 | 14.43 | 3.10 | 29.73 | 30.44 | 46.00 | -15.56 QP |
| 6 | 480.528 | 38.05 | 16.07 | 3.46 | 30.52 | 27.06 | 46.00 | -18.94 QP |