



Shenzhen EBO Technology Co., Ltd.

1-4F, Huafeng Science Park, Xin'an Sixth Road, 82th District, Bao'an,
Shenzhen, China.
Telephone: +86-755-29451282,
Fax: +86-755-22639141

Report No.: FCC14-RTE030102
Page 1 of 16

TEST REPORT

Applicant: EKEN(HK) ELECTRONICS CO., LIMITED
Address of Applicant: Building 2F-2A/2B, HuaFeng Science Park, Gonghe Gongye Road, XiXiang, Bao'an District, Shenzhen, China
Equipment Under Test (EUT)
Product Name: 7INCH TABLET
Brand Name: EKEN
Model No.: X73, X76, W78, Q7, P70, G1, N7, R7, G7, G73, M7, H70, X70, H71, S70, S71, X71
Test Model No.: X73
FCC ID: PVVX73
Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2012
Date of sample receipt: February 18, 2014
Date of Test: February 18, 2014 To February 28, 2014
Date of report issue: February 28, 2014
Test Result : PASS *

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

Authorized Signature:

Kevin Yu
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 EBO 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. Any mention of EBO International Electrical Approvals or testing done by EBO International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by EBO International Electrical Approvals in writing. 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 | February 28, 2014 | Original |
| | | |
| | | |
| | | |
| | | |

Prepared By:

Date:

February 28, 2014

Project Engineer

Check By:

Date:

February 28, 2014

Reviewer

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



3 Contents

| | Page |
|---|------|
| 1 COVER PAGE | 1 |
| 2 VERSION | 2 |
| 3 CONTENTS | 3 |
| 4 TEST SUMMARY | 4 |
| 5 GENERAL INFORMATION | 5 |
| 5.1 CLIENT INFORMATION | 5 |
| 5.2 GENERAL DESCRIPTION OF EUT | 5 |
| 5.3 TEST MODE | 5 |
| 5.4 TEST FACILITY | 6 |
| 5.5 TEST LOCATION | 6 |
| 5.6 DESCRIPTION OF SUPPORT UNITS | 6 |
| 5.7 DEVIATION FROM STANDARDS | 6 |
| 5.8 ABNORMALITIES FROM STANDARD CONDITIONS | 6 |
| 5.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER | 6 |
| 6 TEST INSTRUMENTS LIST | 7 |
| 7 TEST RESULTS AND MEASUREMENT DATA | 8 |
| 7.1 CONDUCTED EMISSIONS | 8 |
| 7.2 RADIATED EMISSION | 11 |

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



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: | EKEN(HK) Electronics Co., Limited |
| Address of Applicant: | Building 2F-2A/2B, HuaFeng Science Park, Gonghe Gongye Road, XiXiang, Bao'an District, Shenzhen, China |
| Manufacturer : | EKEN(HK) Electronics Co., Limited |
| Address of Manufacturer: | Building 2F-2A/2B, HuaFeng Science Park, Gonghe Gongye Road, XiXiang, Bao'an District, Shenzhen, China |
| Factory: | EKEN(HK) Electronics Co., Limited |
| Address of Factory: | Building 2F-2A/2B, HuaFeng Science Park, Gonghe Gongye Road, XiXiang, Bao'an District, Shenzhen, China |

5.2 General Description of EUT

| | |
|-----------------|---|
| Product Name: | 7INCH TABLET |
| Brand Name: | EKEN |
| Model No.: | X73, X76, W78, Q7, P70, G1, N7, R7, G7, G73, M7, H70, X70, H71, S70, S71, X71 |
| Test Model No.: | X73 |
| Power supply: | Adapter: Input: 100-240V~, 50/60Hz, 0.35A max Output: 5.0V, 2.0A |

5.3 Test mode

| | |
|--------------|---|
| Test mode: | |
| Playing mode | Keep the EUT in video playing mode |
| REC mode | Keep the EUT in video recording mode |
| PC mode | Keep the EUT in data exchanging with PC mode. |



5.4 Test Facility

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

- **CNAS —Registration No.: CNAS L5775**

CNAS has accredited Global United Technology Services Co., Ltd. To ISO/IEC 17025 General Requirements for the competence of testing and calibration laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **FCC —Registration No.: 600491**

Global United Technology 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 files. Registration 600491, June 28, 2013.

- **Industry Canada (IC) —Registration No.: 9079A-2**

The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. Has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 9079A-2, June 26, 2013.

5.5 Test Location

All tests were performed at:

Global United Technology Services Co., Ltd.

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

5.6 Description of Support Units

| Manufacturer | Description | Model | Serial Number | FCC ID/DoC |
|--------------|-------------|---------|---------------|------------|
| HP | Printer | CB495A | 05257893 | DoC |
| Lenovo | PC Host | M6900 | EA05257893 | DoC |
| DELL | MONITOR | E178FPC | N/A | DoC |
| DELL | KEYBOARD | SK-8115 | N/A | DoC |
| DELL | MOUSE | MOC5UO | N/A | DoC |

5.7 Deviation from Standards

Biconical, log.per. antenna and horn antenna were used instead of dipole antenna.

Semi-anechoic Chamber was used as alternation of open air test sites, and all test suites were performed with radiated method in it.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



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 | ZhongYu Electron | 9.0(L)*6.0(W)* 6.0(H) | GTS250 | Mar. 29 2013 | Mar. 28 2014 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | ESU EMI Test Receiver | R&S | ESU26 | GTS203 | Jul. 06 2013 | Jul. 05 2014 |
| 4 | BiConiLog Antenna | SCHWARZBECK | VULB9163 | GTS214 | Mar. 09 2013 | Mar. 08 2014 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK | 9120D | GTS208 | Mar. 09 2013 | Mar. 08 2014 |
| 6 | RF Amplifier | HP | 8347A | GTS204 | Jul. 06 2013 | Jul. 05 2014 |
| 7 | Preamplifier | HP | 8349B | GTS206 | Jul. 06 2013 | Jul. 05 2014 |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 9 | Coaxial cable | GTS | N/A | GTS210 | Jul. 06 2013 | Jul. 05 2014 |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Jul. 06 2013 | Jul. 05 2014 |
| 11 | Thermo meter | N/A | N/A | GTS256 | Jul. 06 2013 | Jul. 05 2014 |

| Conducted Emission: | | | | | | |
|---------------------|-------------------|--------------------------------|----------------------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Shielding Room | ZhongYu Electron | 7.0(L)x3.0(W)x3.0(H) | GTS264 | Sep. 07 2013 | Sep. 06 2015 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCS30 | GTS223 | Jul. 02 2013 | Jul. 01 2014 |
| 3 | 10dB Pulse Limita | Rohde & Schwarz | N/A | GTS224 | Jul. 02 2013 | Jul. 01 2014 |
| 4 | Coaxial Switch | ANRITSU CORP | MP59B | GTS225 | Jul. 02 2013 | Jul. 01 2014 |
| 5 | LISN | SCHWARZBECK MESS-ELEKTRONIK | NSLK 8127 | GTS226 | Jul. 02 2013 | Jul. 01 2014 |
| 6 | Coaxial Cable | GTS | N/A | GTS227 | Jul. 02 2013 | Jul. 01 2014 |
| 7 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |

| General used equipment: | | | | | | |
|-------------------------|----------------|--------------|-----------|---------------|---------------------|-------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (mm-dd-yy) | Cal.Due date (mm-dd-yy) |
| 1 | Barometer | ChangChun | DYM3 | GTS257 | July 09 2013 | July 08 2014 |

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



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, Sweep time=auto | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | |
| | | Quasi-peak | Average |
| | 0.15-0.5 | 66 to 56* | 56 to 46* |
| | 0.5-5 | 56 | 46 |
| | 5-30 | 60 | 50 |
| * Decreases with the logarithm of the frequency. | | | |
| Test setup: | <div><p>Reference Plane</p><p>Test table/Insulation plane</p><p>Remark E.U.T.: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p></div> | | |
| Test procedure: | <div><div>1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.</div><div>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 refer to the block diagram of the test setup and photographs).</div><div>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.</div></div> | | |
| Test Instruments: | Refer to section 6 for details | | |
| Test mode: | Pre-scan all modes in section 5.3, and found the PC mode which is the worst mode, so only the data of worst mode was show on the test report. | | |
| Test results: | Pass | | |

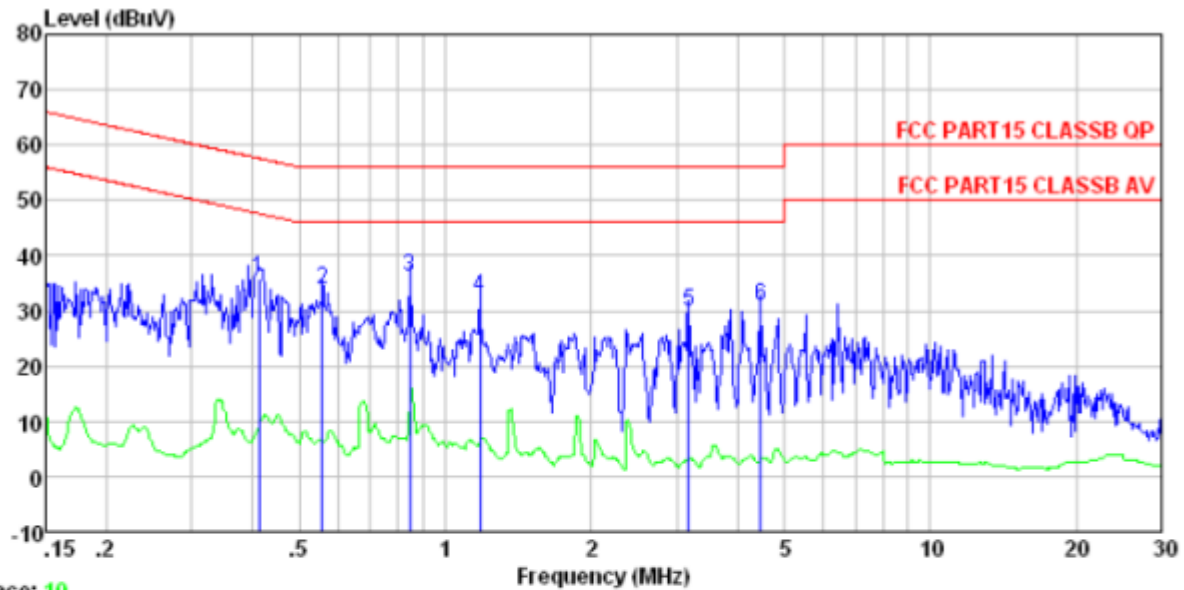
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



Measurement Data

| | |
|------------|---------|
| Test mode: | PC mode |
|------------|---------|

Line:



Trace: 10

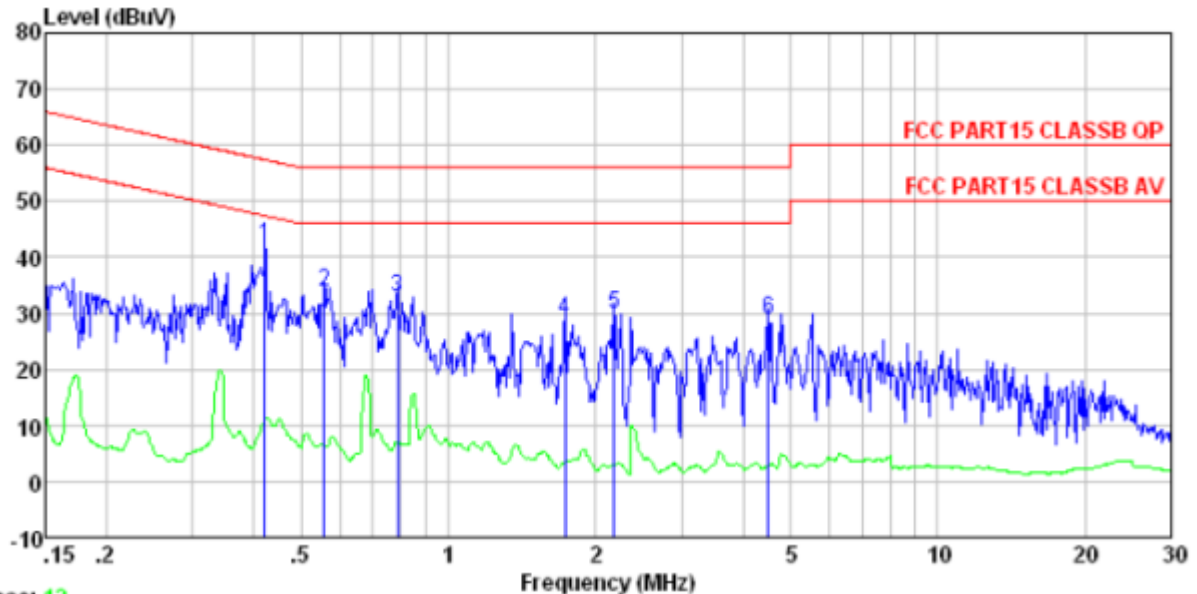
Condition : FCC PART15 CLASSB QP LISN-2013 LINE

Test Engineer: Bing

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|-------|------------|-------------|------------|-------|------------|------------|--------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.413 | 35.74 | 0.12 | 0.11 | 35.97 | 57.59 | -21.62 | QP |
| 2 | 0.558 | 33.53 | 0.13 | 0.12 | 33.78 | 56.00 | -22.22 | QP |
| 3 | 0.844 | 35.75 | 0.14 | 0.13 | 36.02 | 56.00 | -19.98 | QP |
| 4 | 1.178 | 32.27 | 0.13 | 0.13 | 32.53 | 56.00 | -23.47 | QP |
| 5 | 3.173 | 29.45 | 0.17 | 0.15 | 29.77 | 56.00 | -26.23 | QP |
| 6 | 4.478 | 30.55 | 0.20 | 0.15 | 30.90 | 56.00 | -25.10 | QP |



Neutral:



Trace: 12

Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Test Engineer: Bing

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|-------|------------|-------------|------------|-------|------------|------------|--------|
| | MHz | dBuV | dB | dB | dBuV | dBuV | dB | |
| 1 | 0.421 | 41.91 | 0.06 | 0.11 | 42.08 | 57.42 | -15.34 | QP |
| 2 | 0.558 | 33.59 | 0.07 | 0.12 | 33.78 | 56.00 | -22.22 | QP |
| 3 | 0.788 | 32.76 | 0.07 | 0.13 | 32.96 | 56.00 | -23.04 | QP |
| 4 | 1.734 | 28.69 | 0.09 | 0.14 | 28.92 | 56.00 | -27.08 | QP |
| 5 | 2.178 | 29.77 | 0.09 | 0.15 | 30.01 | 56.00 | -25.99 | QP |
| 6 | 4.501 | 28.63 | 0.15 | 0.15 | 28.93 | 56.00 | -27.07 | QP |

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

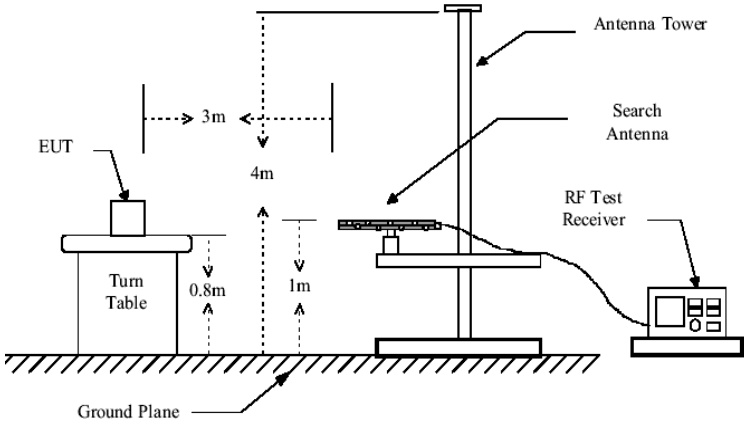
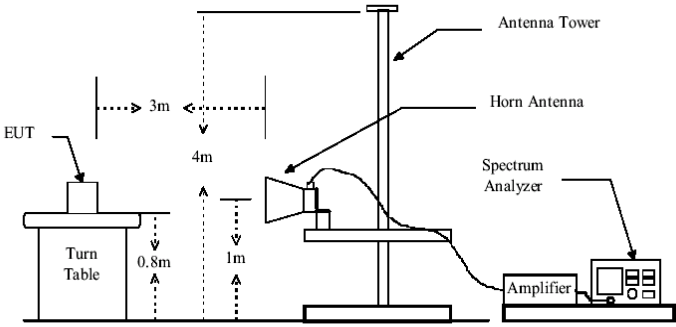
"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotek.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotek.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



7.2 Radiated Emission

| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|---|------------------|--------|------------------|--|-----------|--------------------|--------|-------------|--------|------------------|--------------|--------|------------------|------------------|------------|------------------|-------------|-------|------------------|------------|-------|---------------|---------------|------------|
| Test Requirement: | FCC Part15 B Section 15.109 | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Method: | ANSI C63.4:2003 | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Frequency Range: | 30MHz to 6GHz | | | | | | | | | | | | | | | | | | | | | | | | |
| Test site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiver setup: | <table><tr><td>Frequency</td><td>Detector</td><td>RBW</td><td>VBW</td><td>Remark</td></tr><tr><td>30MHz-1GHz</td><td>Quasi-peak</td><td>120kHz</td><td>300kHz</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>Peak</td><td>1MHz</td><td>3MHz</td><td>Peak Value</td></tr><tr><td>Peak</td><td>1MHz</td><td>10Hz</td><td>Average Value</td></tr></table> | | | | | Frequency | Detector | RBW | VBW | Remark | 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak Value | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | Peak | 1MHz | 10Hz | Average Value | |
| Frequency | Detector | RBW | VBW | Remark | | | | | | | | | | | | | | | | | | | | | |
| 30MHz-1GHz | Quasi-peak | 120kHz | 300kHz | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | |
| Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | | | | | | | | | | | | | | | | | | | | | |
| | Peak | 1MHz | 10Hz | Average Value | | | | | | | | | | | | | | | | | | | | | |
| Limit: | <table><tr><td>Frequency</td><td>Limit (dBuV/m @3m)</td><td>Remark</td></tr><tr><td>30MHz-88MHz</td><td>40.00</td><td>Quasi-peak Value</td></tr><tr><td>88MHz-216MHz</td><td>43.50</td><td>Quasi-peak Value</td></tr><tr><td>216MHz-960MHz</td><td>46.00</td><td>Quasi-peak Value</td></tr><tr><td>960MHz-1GHz</td><td>54.00</td><td>Quasi-peak Value</td></tr><tr><td rowspan="2">Above 1GHz</td><td>54.00</td><td>Average Value</td></tr><tr><td>74.00</td><td>Peak Value</td></tr></table> | | | | | Frequency | Limit (dBuV/m @3m) | Remark | 30MHz-88MHz | 40.00 | Quasi-peak Value | 88MHz-216MHz | 43.50 | Quasi-peak Value | 216MHz-960MHz | 46.00 | Quasi-peak Value | 960MHz-1GHz | 54.00 | Quasi-peak Value | Above 1GHz | 54.00 | Average Value | 74.00 | Peak Value |
| Frequency | Limit (dBuV/m @3m) | Remark | | | | | | | | | | | | | | | | | | | | | | | |
| 30MHz-88MHz | 40.00 | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | | | |
| 88MHz-216MHz | 43.50 | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | | | |
| 216MHz-960MHz | 46.00 | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | | | |
| 960MHz-1GHz | 54.00 | Quasi-peak Value | | | | | | | | | | | | | | | | | | | | | | | |
| Above 1GHz | 54.00 | Average Value | | | | | | | | | | | | | | | | | | | | | | | |
| | 74.00 | Peak Value | | | | | | | | | | | | | | | | | | | | | | | |
| Test Procedure: | <div>1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.</div> <div>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.</div> <div>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.</div> <div>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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading.</div> <div>5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</div> <div>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</div> | | | | | | | | | | | | | | | | | | | | | | | | |

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."

| | | | | |
|---------------------|---|-------|---------|-----|
| | average method as specified and then reported in a data sheet. | | | |
| Test setup: | <p>Below 1GHz</p>  <p>Above 1GHz</p>  | | | |
| Test environment: | Temp.: | 25 °C | Humid.: | 52% |
| Measurement Record: | Press.: 1 012mbar | | | |
| Test Instruments: | Uncertainty: ± 4.5dB | | | |
| Test mode: | Refer to section 6 for details | | | |
| Test results: | Pre-scan all modes in section 5.3, and found the PC mode which is the worst mode, so only the data of worst mode was show on the test report. | | | |
| | Pass | | | |

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."

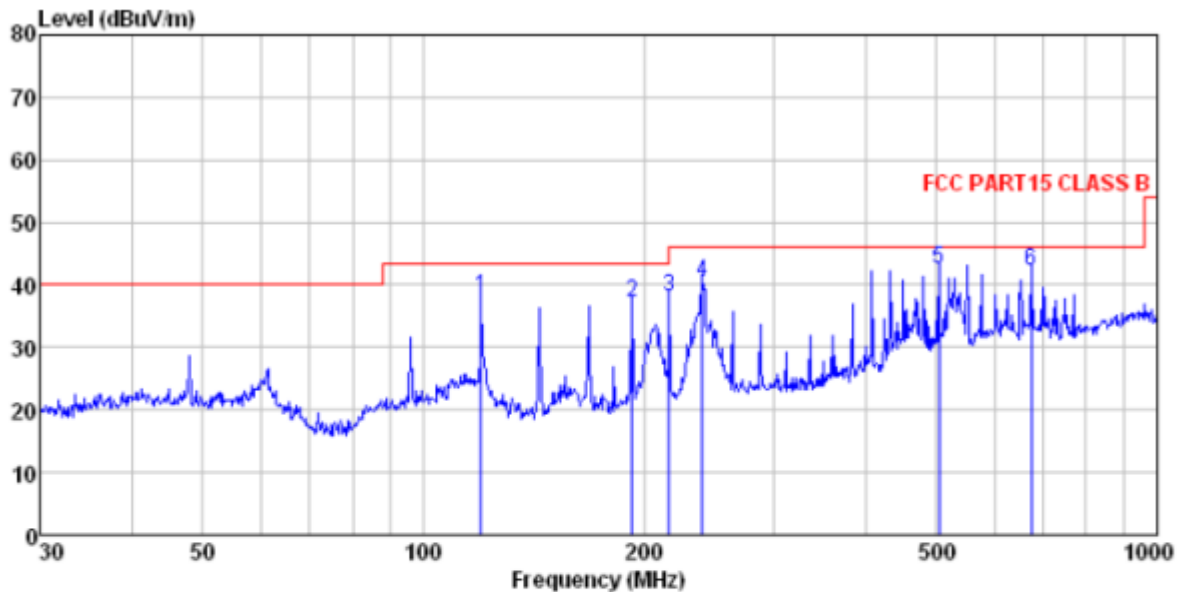


Measurement Data

| | |
|------------|---------|
| Test mode: | PC mode |
|------------|---------|

Below 1GHz

Horizontal:



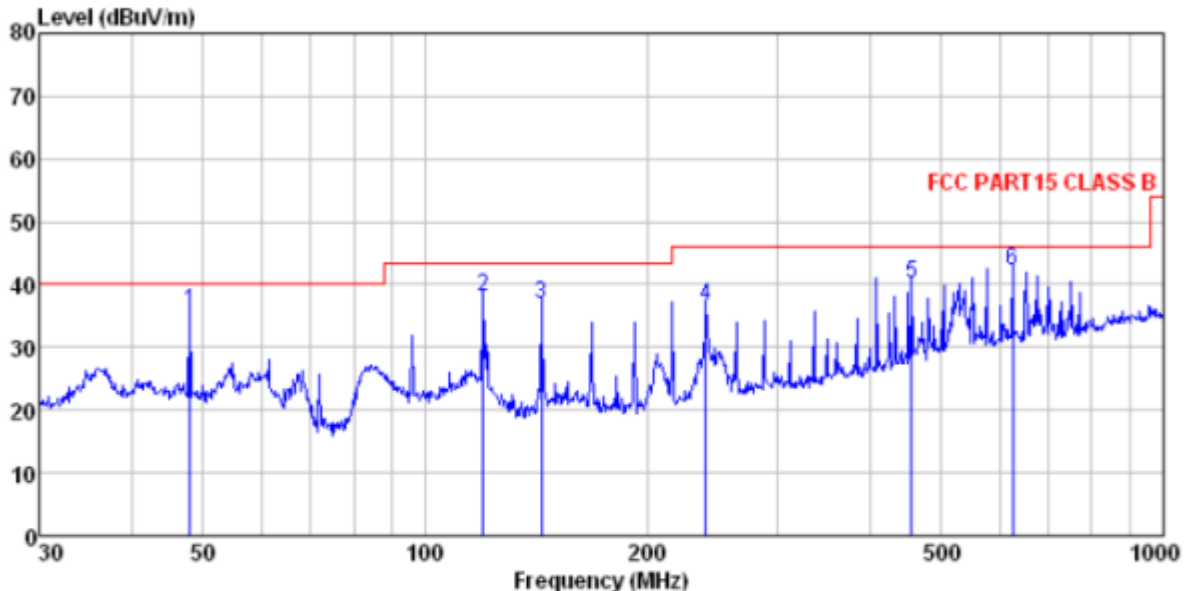
Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL
Test Engineer: ying

| | Freq | ReadAntenna | Cable Preamp | Limit | Over | |
|---|---------|-------------|--------------|-------|-------|----------------------|
| | Level | Factor | Loss Factor | Level | Line | Limit Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m dBuV/m dB |
| 1 | 119.856 | 55.99 | 12.48 | 1.36 | 31.86 | 37.97 43.50 -5.53 QP |
| 2 | 192.419 | 54.99 | 12.56 | 1.80 | 32.12 | 37.23 43.50 -6.27 QP |
| 3 | 216.024 | 55.34 | 13.07 | 1.93 | 32.15 | 38.19 46.00 -7.81 QP |
| 4 | 239.987 | 56.52 | 14.09 | 2.07 | 32.16 | 40.52 46.00 -5.48 QP |
| 5 | 504.706 | 51.97 | 18.68 | 3.33 | 31.53 | 42.45 46.00 -3.55 QP |
| 6 | 672.845 | 48.66 | 20.72 | 3.99 | 31.15 | 42.22 46.00 -3.78 QP |

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



Vertical:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL
Test Engineer: ying

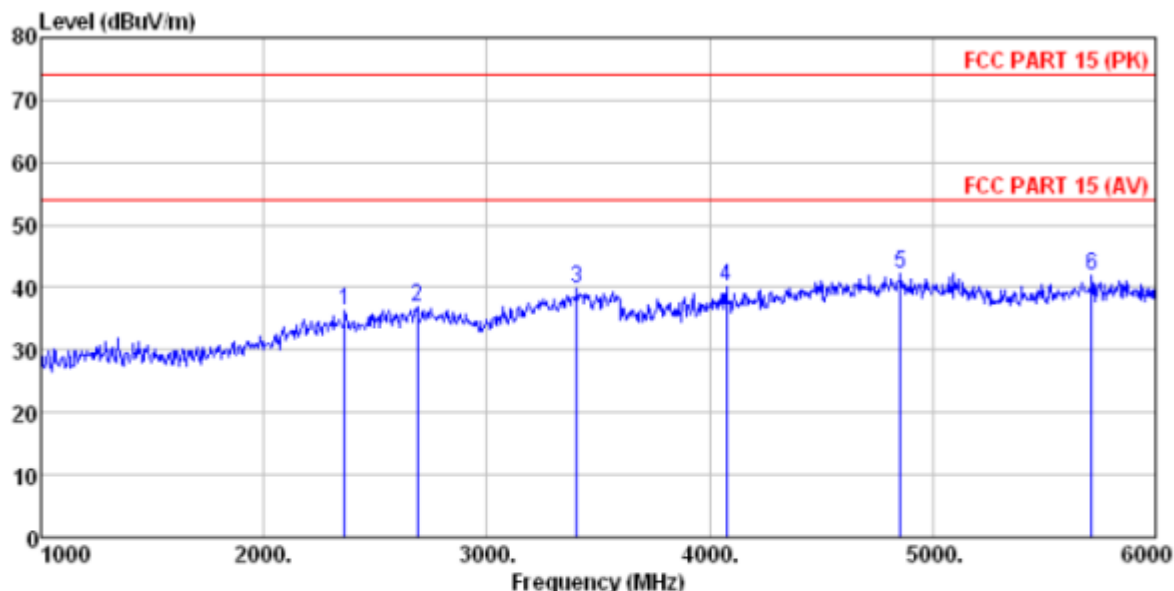
| | Freq | ReadAntenna | Cable Preamp | | Limit | Over | |
|---|---------|-------------|--------------|-------|-------|--------|----------------|
| | Level | Factor | Loss Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB |
| 1 | 47.994 | 51.53 | 15.36 | 0.75 | 31.98 | 35.66 | 40.00 -4.34 QP |
| 2 | 119.856 | 56.11 | 12.48 | 1.36 | 31.86 | 38.09 | 43.50 -5.41 QP |
| 3 | 143.830 | 57.20 | 10.22 | 1.53 | 31.96 | 36.99 | 43.50 -6.51 QP |
| 4 | 239.987 | 52.60 | 14.09 | 2.07 | 32.16 | 36.60 | 46.00 -9.40 QP |
| 5 | 455.906 | 51.16 | 17.58 | 3.11 | 31.70 | 40.15 | 46.00 -5.85 QP |
| 6 | 625.078 | 48.80 | 20.54 | 3.82 | 31.08 | 42.08 | 46.00 -3.92 QP |

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



Above 1GHz

Horizontal:



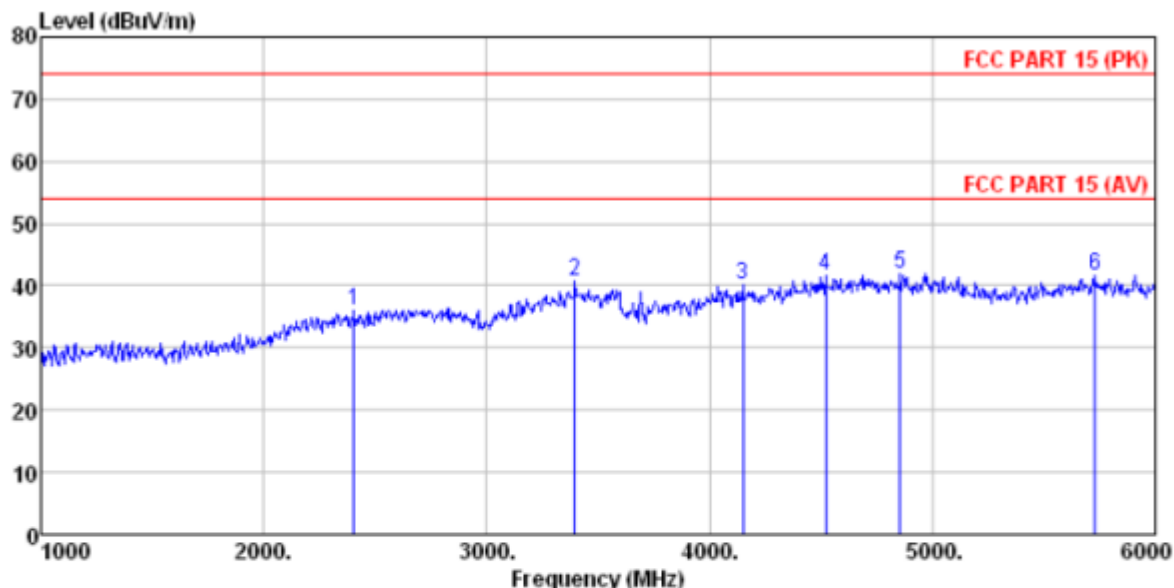
Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) HORIZONTAL
Test Engineer: ying

| | Freq | Read | Antenna | Cable | Preamp | Limit | Over | |
|---|----------|-------|---------|-------|--------|--------|--------|-------------|
| | MHz | Level | Factor | Loss | Factor | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB |
| 1 | 2365.000 | 37.34 | 27.67 | 5.36 | 34.05 | 36.32 | 74.00 | -37.68 Peak |
| 2 | 2690.000 | 36.71 | 28.12 | 5.66 | 33.68 | 36.81 | 74.00 | -37.19 Peak |
| 3 | 3405.000 | 37.18 | 28.64 | 6.78 | 32.87 | 39.73 | 74.00 | -34.27 Peak |
| 4 | 4075.000 | 34.47 | 29.83 | 7.94 | 32.09 | 40.15 | 74.00 | -33.85 Peak |
| 5 | 4855.000 | 33.95 | 31.83 | 8.64 | 32.11 | 42.31 | 74.00 | -31.69 Peak |
| 6 | 5715.000 | 31.92 | 32.50 | 9.81 | 32.30 | 41.93 | 74.00 | -32.07 Peak |

"This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.ebotech.cn> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.ebotech.cn>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. 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."



Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120D ANT(>1GHZ) VERTICAL
Test Engineer: ying

| | Freq | ReadAntenna | Cable Preamp | | Limit | Over | |
|---|----------|-------------|--------------|-------|--------|--------|-------------------|
| | Level | Factor | Loss Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB/m | dB | dBuV/m | dBuV/m | dB |
| 1 | 2405.000 | 37.17 | 27.57 | 5.40 | 33.99 | 36.15 | 74.00 -37.85 Peak |
| 2 | 3395.000 | 38.10 | 28.60 | 6.76 | 32.87 | 40.59 | 74.00 -33.41 Peak |
| 3 | 4150.000 | 34.05 | 30.06 | 8.01 | 32.01 | 40.11 | 74.00 -33.89 Peak |
| 4 | 4520.000 | 33.96 | 31.37 | 8.36 | 31.95 | 41.74 | 74.00 -32.26 Peak |
| 5 | 4855.000 | 33.55 | 31.83 | 8.64 | 32.11 | 41.91 | 74.00 -32.09 Peak |
| 6 | 5730.000 | 31.62 | 32.53 | 9.83 | 32.29 | 41.69 | 74.00 -32.31 Peak |

----- End-----