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Report No.: FCC13-RTE101501

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TEST REPORT

Applicant: ARCHOS SA

Address of Applicant: 12 Rue Ampere 91430 Igny, France

Equipment Under Test (EUT)

Product Name: HOME TABLET

Model No.: AC70CO

Trade mark: ARCHOS

FCC ID: SOVAC70COB

Applicable standards: FCC CFR Title 47 Part 15 Subpart B:2012

Date of sample receipt: October 9, 2013

Date of Test: October 9, 2013~ October 17, 2013

Date of report issued: October 18, 2013

Test Result: PASS *

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.

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



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2 Version

| Version No. | Date | Description |
|-------------|------------------|-------------|
| 00 | October 18, 2013 | Original |
| | | |
| | | |
| | | |
| | | |

| Prepared by: | Jason | Date: | October 18, 2013 |
|--------------|------------------|-------|------------------|
| Reviewed by: | Project Engineer | Date: | October 18, 2013 |
| | Reviewer | | |



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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.



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5 General Information

5.1 Client Information

| Applicant: | ARCHOS SA |
|-------------------------|----------------------------------|
| Address of Applicant: | 12 Rue Ampere 91430 Igny, France |
| Manufacturer: | ARCHOS SA |
| Address of Manufacturer | 12 Rue Ampere 91430 Igny, France |

5.2 General Description of EUT

| Product Name: | HOME TABLET |
|---------------|---------------------------------------|
| Model No.: | AC70CO |
| Trade Mark: | ARCHOS |
| Power supply: | Adapter: |
| | Model No.: THX-050200KB |
| | Input: 100-240VAC, 50/60Hz, 0.65A MAX |
| | Output: 5VDC, 2A |
| | Or |
| | 3.7V Li-ion Battery |

5.3 Test mode and voltage

| Test mode: | |
|-----------------|---|
| PC mode | Keep the EUT in Data Transfer with PC mode. |
| TF Playing mode | Keep the EUT in playing video file on the TF card mode. |
| REC mode | Keep the EUT in video recording mode. |
| Test voltage: | AC 120V/60Hz |



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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 eletter 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



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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



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6 Test Instruments list

| Radia | 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 | 9.2(L)*6.2(W)* 6.4(H) | GTS250 | Mar. 29 2013 | Mar. 28 2015 |
| 2 | Control Room | ZhongYu Electron | 6.2(L)*2.5(W)* 2.4(H) | GTS251 | N/A | N/A |
| 3 | EMI Test Receiver | Rohde & Schwarz | ESU26 | GTS203 | Jul. 02 2013 | Jul. 01 2014 |
| 4 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | GTS214 | Feb. 24 2013 | Feb. 23 2014 |
| 5 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | 9120D-829 | GTS208 | Mar. 09 2013 | Mar. 08 2014 |
| 6 | Amplifier(100kHz-3GHz) | HP | 8347A | GTS204 | Jul. 02 2013 | Jul. 01 2014 |
| 7 | Amplifier(2GHz-20GHz) | HP | 8349B | GTS206 | Jul. 02 2013 | Jul. 01 2014 |
| 8 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A |
| 9 | Coaxial cable | GTS | N/A | GTS210 | Jul. 02 2013 | Jul. 01 2014 |
| 10 | Coaxial Cable | GTS | N/A | GTS211 | Jul. 02 2013 | Jul. 01 2014 |
| 11 | Thermo meter | KTJ | TA328 | GTS256 | Jul. 02 2013 | Jul. 01 2014 |

| Cond | 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) | GTS252 | Sep. 07 2013 | Sep. 07 2014 |
| 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 |
| 8 | Thermo meter | KTJ | TA328 | GTS233 | Jul. 02 2013 | Jul. 01 2014 |

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



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7 Test Results and Measurement Data

7.1 Conducted Emissions

| 7.1 Conducted Linissions | Conducted Linissions | | | | |
|--------------------------|---|------------------------|------------------|--|--|
| 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: | Limit (dBμV) | | | | |
| | Frequency range (MHz) | Quasi-peak | Average | | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | | |
| | 0.5-5 | 56 | 46 | | |
| | 0.5-30 | 60 | 50 | | |
| Test procedure | 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. 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). 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 setup: | AUX Equipment Test table/Insulation pla Remark: E.U.T. Equipment Under Test LISN: Line impedence Stabilization Test table height=0.8m | EMI Receiver | er — AC power | | |
| Test environment: | Temp.: 25 °C Humid.: 52% Press.: 1 012mbar | | | | |
| Measurement Record: | Uncertainty: ± 3.45dB | | | | |
| Test Instruments: | Refer to section 6 for details | | | | |
| | | | | | |
| Test mode: | Refer to section 5.3 for deta reported. | nils. Only the data of | worst mode's was | | |

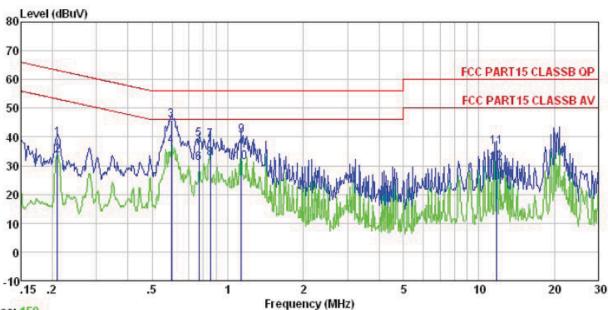


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Measurement Data

Line:



I i - i +

Trace: 159

Condition : FCC PART15 CLASSB QP LISN-2013 LINE

LICH Cabla

Test mode : PC mode Test Engineer: ying

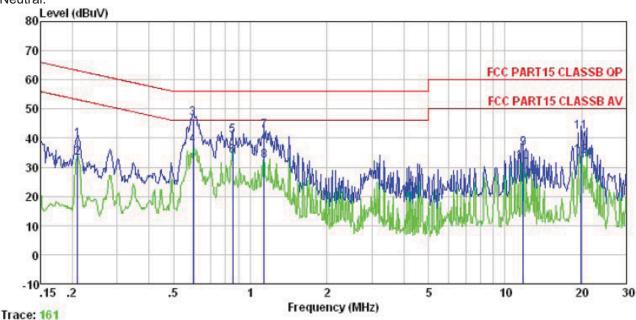
| | Freq | Kead Level | Factor | Loss | Level | Limit | Limit | Remark |
|--------|--------|---------------|--------|------|-------|--------|--------|---------|
| - | MHz | dBuV | dB | dB | dBuV | -dBuV | dB | 7 |
| 1 | 0.209 | 39. 25 | 0.13 | 0.13 | 39.51 | 63. 23 | -23.72 | QP |
| 2 | 0.209 | 33.35 | 0.13 | 0.13 | 33.61 | 53.23 | -19.62 | Average |
| 3 | 0.595 | 45.50 | 0.13 | 0.12 | 45.75 | | -10.25 | |
| 4 | 0.595 | 36.47 | 0.13 | 0.12 | 36.72 | 46.00 | -9.28 | Average |
| 4 5 | 0.767 | 38.97 | 0.14 | 0.13 | 39.24 | 56.00 | -16.76 | QP |
| 6 | 0.767 | 30.47 | 0.14 | 0.13 | 30.74 | 46.00 | -15.26 | Average |
| 7 | 0.853 | 38.58 | 0.14 | 0.13 | 38.85 | 56.00 | -17.15 | QP |
| 8 | 0.853 | 32.24 | 0.14 | 0.13 | 32.51 | 46.00 | -13.49 | Average |
| 9 | 1.135 | 40.16 | 0.13 | 0.13 | 40.42 | 56.00 | -15.58 | QP |
| 10 | 1.135 | 30.78 | 0.13 | 0.13 | 31.04 | 46.00 | -14.96 | Average |
| 11 | 11.807 | 36.06 | 0.36 | 0.20 | 36.62 | 60.00 | -23.38 | QP |
| 12 | 11.807 | 30.28 | 0.36 | 0.20 | 30.84 | 50.00 | -19.16 | Average |



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Neutral:



Condition : FCC PART15 CLASSB QP LISN-2013 NEUTRAL

Test mode : PC mode Test Engineer: ying

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|---|--|--|--|--|--|--|---|--|
| - | MHz | dBuV | dB | dB | dBuV | -dBuV | dB | |
| 1 2 3 4 5 6 7 8 9 | 0.209 0.209 0.595 0.595 0.853 0.853 1.135 1.135 | 39. 24 32. 86 46. 50 37. 45 40. 58 33. 69 42. 16 32. 03 36. 06 | 0.07 0.07 0.07 0.07 0.07 0.07 0.08 0.08 | 0.13 0.13 0.12 0.12 0.13 0.13 0.13 0.13 0.20 | 39. 44 33. 06 46. 69 37. 64 40. 78 33. 89 42. 37 32. 24 36. 57 | 53. 23 56. 00 46. 00 56. 00 46. 00 46. 00 60. 00 | -9. 31 -8. 36 -15. 22 -12. 11 -13. 63 -13. 76 -23. 43 | Average QP Average QP Average QP Average QP |
| 10 11 12 | 11.807 19.950 19.950 | 31. 48 41. 47 33. 23 | 0.31 0.53 0.53 | 0. 20 0. 22 0. 22 | 31. 99 42. 22 33. 98 | 60.00 | -17.78 | Average QP Average |

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 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.



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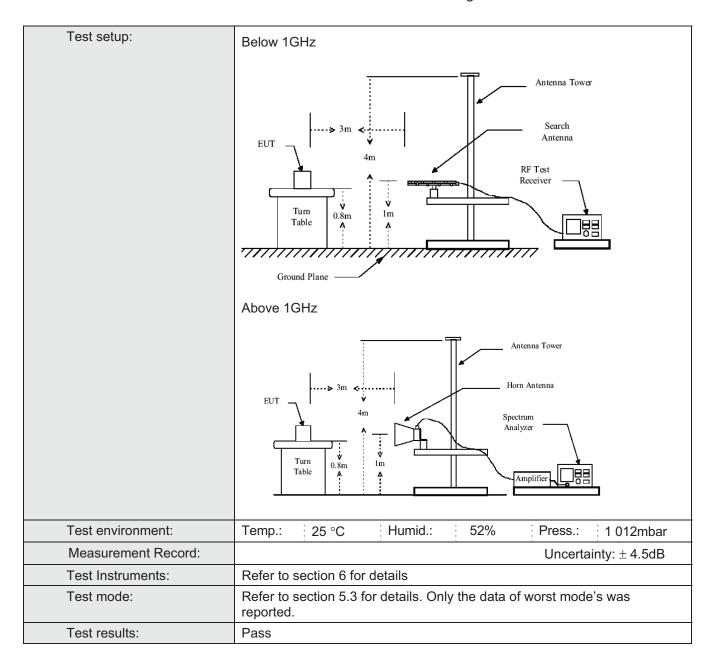
7.2 Radiated Emission

| Tadiated Lillission | E00 B 445 5 4 | | | | | | | | |
|-----------------------|--|------------------|------------------|-------------|---------------------------------------|--|--|--|--|
| 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: | | | | | | | | | |
| | Frequency | Detector | RBW | VBW | Remark | | | | |
| | 30MHz- 1GHz | Quasi-pea | k 120KHz | 300KHz | Quasi-peak Value | | | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | | | | |
| | Above IGHZ | Peak | 1MHz | 10Hz | Average Value | | | | |
| Limit: | | | | | | | | | |
| | Freque | ency | Limit (dBuV | /m @3m) | Remark | | | | |
| | 30MHz-8 | 8MHz | 40. | 0 | Quasi-peak Value | | | | |
| | 88MHz-2 | 16MHz | 43. | 5 | Quasi-peak Value | | | | |
| | 216MHz-9 | 0 | Quasi-peak Value | | | | | | |
| | 960MHz- | 0 | Quasi-peak Value | | | | | | |
| | Above 1 | ICH ₇ | 54. | 0 | Average Value | | | | |
| | Above | 10112 | 74. | 0 | Peak Value | | | | |
| Test Procedure: | ground at a 3 | 3 meter camb | | was rotated | 0.8 meters above the I 360 degrees to | | | | |
| | 2. The EUT wa antenna, whi tower. | | | | nce-receiving ble-height antenna | | | | |
| | 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 rota table was turned from 0 degrees to 360 degrees to find the maximum reading. | | | | | | | | |
| | 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. | | | | | | | | |



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Note:

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

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

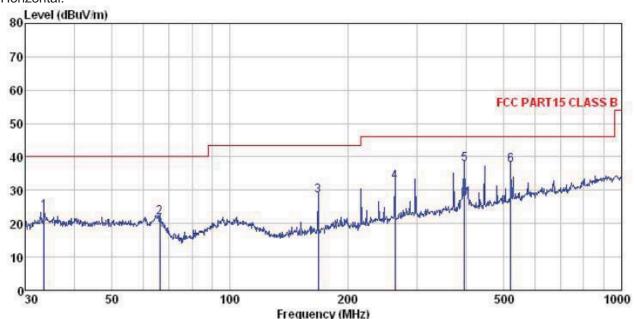


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Measurement Data

Below 1GHz Horizontal:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163-2013M HORIZONTAL Condition

Test Mode : PC mode Test Engineer: Yang

Cable Preamp Over ReadAnt enna Limit Freq Level Factor Loss Factor Level Line Limit Remark MHz dBuV dB/m ₫B dB dBuV/m dBuV/m 40.72 33.562 32.06 23.56 40.00 -16.44 QP 14.31 0.59 66.266 40.62 12.16 0.91 31.90 21.79 40.00 -18.21 QP 167.824 3 1.67 43.50 -15.28 QP 47.69 10.90 32.04 28.22 32.17 46.00 -13.53 QP 32.47 4 263.819 48.28 14.17 2.19 46.00 -8.32 QP 49.78 2.83 5 396.242 16.97 31.90 37.68 520.888 46.56 19.00 3.39 31.45 37.50 46.00 -8.50 QP

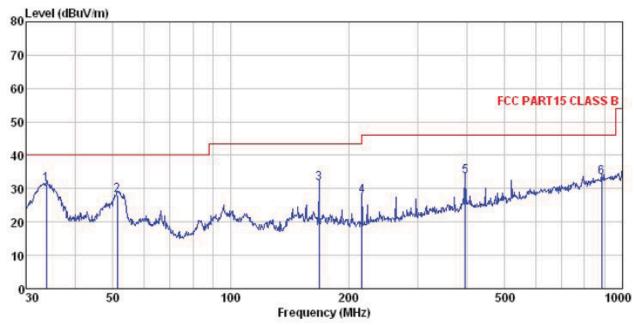
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Vertical:



Site : 3m chamber

Condition : FCC PART15 CLASS B 3m VULB9163-2013M VERTICAL

Test Mode : PC mode Test Engineer: Yang

| 62(| Engineer. | | Ant enna | Cable | Preamp | | Limit | Over | | |
|-----|-----------|-------|----------|-------|--------|--------|--------|-----------|--------|--|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark | |
| | MHz | dBu∜ | dB/m | dB | dB | dBuV/m | dBuV/m | <u>dB</u> | | |
| 1 | 33.799 | 48.54 | 14.31 | 0.59 | 32.06 | 31.38 | 40.00 | -8.62 | QP | |
| 2 | 51.301 | 44.11 | 15.19 | 0.78 | 31.96 | 28.12 | 40.00 | -11.88 | QP | |
| 3 | 167.824 | 51.01 | 10.90 | 1.67 | 32.04 | 31.54 | 43.50 | -11.96 | QP | |
| 4 | 216.024 | 44.89 | 13.07 | 1.93 | 32.15 | 27.74 | 46.00 | -18.26 | QP | |
| 5 | 396.242 | 45.85 | 16.97 | 2.83 | 31.90 | 33.75 | 46.00 | -12.25 | QP | |
| 6 | 884.503 | 36.91 | 22.96 | 4.79 | 31.20 | 33.46 | 46.00 | -12.54 | QP | |

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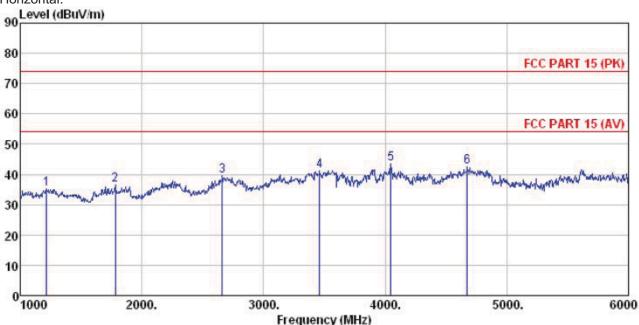


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Above 1GHz

Horizontal:



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120D ANT (>1GHZ) HORIZONTAL

Test Mode : PC mode

Test Engineer: Liu

| est | Engineer: Freq | | | Cable Preamp Loss Factor | | | Limit Line | Over Limit | Remark |
|----------------------------|--|----------------|--------------------------------------|--|----------------------------------|----------------------------------|----------------------------------|--|------------------------------|
| | MHz | dBu₹ | <u>dB</u> /m | dB | dB | dBuV/m | dBuV/m | <u>d</u> B | |
| 1 2 3 4 5 6 | 1215.000 1780.000 2660.000 3460.000 4045.000 4675.000 | 38.27 37.99 | 25. 21 27. 96 28. 84 29. 78 | 4.48 4.85 5.63 6.88 7.90 8.49 | 34.08 33.70 32.79 32.13 | 36.55 39.68 41.20 43.54 | 74.00 74.00 74.00 74.00 | -38.77 -37.45 -34.32 -32.80 -30.46 -31.60 | Peak Peak Peak Peak |

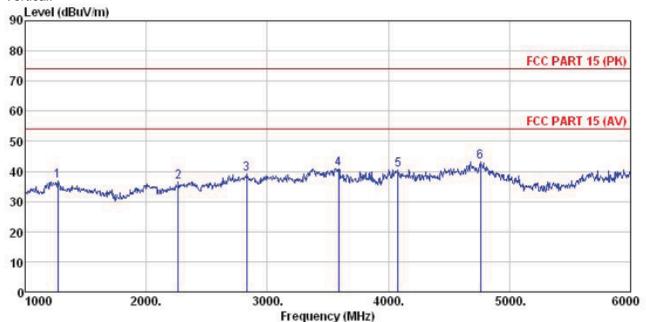
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Vertical:



Site : 3m chamber

Condition : FCC PART 15 (PK) 3m BBHA9120D ANT (>1GHZ) VERTICAL

Test Mode : PC mode

Test Engineer: Yang

| • | Read | | | | | Limit Line | Over Limit | Remark |
|----------|---|--|---|--|---|---|--|---|
| MHz | dBu∜ | dB/m | ₫B | d₿ | dBuV/m | dBuV/m | dB | |
| 1270.000 | 39.97 | 25.57 | 4.52 | 33.21 | 36.85 | 74.00 | -37.15 | Peak |
| 2265.000 | 37.43 | 28.01 | 5.25 | 34.17 | 36.52 | 74.00 | -37.48 | Peak |
| 2830.000 | 38.37 | 28.39 | 5.78 | 33.51 | 39.03 | 74.00 | -34.97 | Peak |
| 3590.000 | 37.21 | 29.12 | 7.13 | 32.66 | 40.80 | 74.00 | -33.20 | Peak |
| 4080.000 | 34.95 | 29.86 | 7.94 | 32.09 | 40.66 | 74.00 | -33.34 | Peak |
| 4760.000 | 34.82 | 31.73 | 8.56 | 32.06 | 43.05 | 74.00 | -30.95 | Peak |
| | Freq MHz 1270.000 2265.000 2830.000 3590.000 4080.000 | Freq Level MHz dBuV 1270.000 39.97 2265.000 37.43 2830.000 38.37 3590.000 37.21 4080.000 34.95 | ReadAntenna Freq Level Factor MHz dBuV dB/m 1270.000 39.97 25.57 2265.000 37.43 28.01 2830.000 38.37 28.39 3590.000 37.21 29.12 4080.000 34.95 29.86 | ReadAntenna Cable Level Factor Loss MHz dBuV dB/m dB 1270.000 39.97 25.57 4.52 2265.000 37.43 28.01 5.25 2830.000 38.37 28.39 5.78 3590.000 37.21 29.12 7.13 4080.000 34.95 29.86 7.94 | ReadAntenna Cable Preamp Level Factor Loss Factor MHz dBuV dB/m dB dB 1270.000 39.97 25.57 4.52 33.21 2265.000 37.43 28.01 5.25 34.17 2830.000 38.37 28.39 5.78 33.51 3590.000 37.21 29.12 7.13 32.66 4080.000 34.95 29.86 7.94 32.09 | ReadAntenna Cable Preamp Loss Factor Level MHz dBuV dB/m dB dB dBuV/m 1270.000 39.97 25.57 4.52 33.21 36.85 2265.000 37.43 28.01 5.25 34.17 36.52 2830.000 38.37 28.39 5.78 33.51 39.03 3590.000 37.21 29.12 7.13 32.66 40.80 4080.000 34.95 29.86 7.94 32.09 40.66 | ReadAntenna Cable Preamp Limit Level Factor Level Line Level Factor Level Line Level Factor Level Line Level Line | ReadAntenna Cable Preamp Limit Over Level Factor Loss Factor Level Line Limit |

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