FCC REPORT

Applicant: Shenzhen Fortuneship Technology Co., LTD

Room 501, the 5th Floor, Block B, Digital Building, Garden

Address of Applicant: City, No. 1079 Nanhai Road, Nanshan District, Shenzhen

Guangdong, P.R. China

Equipment Under Test (EUT)

Product Name: Polar V650

Model No.: 0U

FCC ID: 2ABXI-0U

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 17 Jan., 2014

Date of Test: 18 Jan., to 14 Feb., 2014

Date of report issued: 18 Feb., 2014

Test Result: Pass *

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.

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



2 Version

| Version No. | Date | Description |
|-------------|---------------|-------------|
| 00 | 18 Feb., 2014 | Original |
| | | |
| | | |
| | | |
| | | |

Shirtey Li Report Clerk Prepared by: Date: 18 Feb., 2014

Reviewed by: 18 Feb., 2014

Project Engineer



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4 Test Summary

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

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



5 General Information

5.1 Client Information

| Applicant: | Shenzhen Fortuneship Technology Co., LTD |
|--------------------------------------|---|
| Address of Applicant: | Room 501, the 5th Floor, Block B, Digital Building, Garden City, No. 1079 Nanhai Road, Nanshan District, Shenzhenm Guangdong, P.R. China |
| Manufacturer/Factory: | Shenzhen Fortuneship Technology Co., LTD |
| Address of Manufacturer/ Factory: | Room 501, the 5th Floor, Block B, Digital Building, Garden City, No. 1079 Nanhai Road, Nanshan District, Shenzhenm Guangdong, P.R. China |

5.2 General Description of E.U.T.

| Product Name: | Polar V650 |
|---------------|------------------------------------|
| Model No.: | OU |
| Power supply: | Rechargeable Li-ion Battery DC3.8V |

5.3 Test Mode

| Operating mode | Detail description |
|----------------|--|
| PC mode | Keep the EUT in Downloading mode(Worst case) |



Project No.: CCIS140100035RF

5.4 Description of Support Units

| Manufacturer | Description | Model | Serial Number | FCC ID/DoC |
|--------------|--------------------|----------------|---------------|------------|
| DELL | PC | PC OPTIPLEX745 | | DoC |
| DELL | ELL MONITOR E178FP | | N/A | DoC |
| DELL | DELL KEYBOARD | | N/A | DoC |
| DELL | DELL MOUSE | | N/A | DoC |
| HP | HP Printer | | 05257893 | DoC |

5.5 Laboratory Facility

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

FCC - Registration No.: 817957

Shenzhen Zhongjian Nanfang Testing Co., Ltd. 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.

IC - Registration No.: 10106A-1

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

5.6 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No.B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China

Tel: 0755-23118282 Fax: 0755-23116366

Shenzhen Zhongjian Nanfang Testing Co., Ltd. 1st Floor, Block No.2, Laodong Industrial Zone, Xixiang Road Baoan District, Shenzhen, China 518102

Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366 Page 6 of 18



5.7 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 | June 09 2013 | June 08 2014 | |
| 2 | BiConiLog Antenna | SCHWARZBECK MESS-ELEKTRONIK | VULB9163 | CCIS0005 | May 25 2013 | May 24 2014 | |
| 3 | Double -ridged waveguide horn | SCHWARZBECK MESS-ELEKTRONIK | BBHA9120D | CCIS0006 | May 25 2013 | May 24 2014 | |
| 4 | EMI Test Software | AUDIX | E3 | N/A | N/A | N/A | |
| 5 | Coaxial Cable | CCIS | N/A | CCIS0016 | Apr. 01 2013 | Mar. 31 2014 | |
| 6 | Coaxial Cable | CCIS | N/A | CCIS0017 | Apr. 01 2013 | Mar. 31 2014 | |
| 7 | Coaxial cable | CCIS | N/A | CCIS0018 | Apr. 01 2013 | Mar. 31 2014 | |
| 8 | Coaxial Cable | CCIS | N/A | CCIS0019 | Apr. 01 2013 | Mar. 31 2014 | |
| 9 | Coaxial Cable | CCIS | N/A | CCIS0087 | Apr. 01 2013 | Mar. 31 2014 | |
| 10 | Amplifier(10kHz- 1.3GHz) | HP | 8447D | CCIS0003 | Apr. 01 2013 | Mar. 31 2014 | |
| 11 | Amplifier(1GHz- 18GHz) | Compliance Direction Systems Inc. | PAP-1G18 | CCIS0011 | June 09 2013 | June 08 2014 | |
| 12 | Pre-amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | GTS218 | Apr. 01 2013 | Mar. 31 2014 | |
| 13 | Horn Antenna | ETS-LINDGREN | 3160 | GTS217 | Mar. 30 2013 | Mar. 29 2014 | |
| 14 | Printer | HP | HP LaserJet P1007 | N/A | N/A | N/A | |
| 15 | Positioning Controller | UC | UC3000 | CCIS0015 | N/A | N/A | |
| 16 | Spectrum analyzer 9k-30GHz | Rohde & Schwarz | FSP | CCIS0023 | May. 25 2013 | May. 24 2014 | |
| 17 | EMI Test Receiver | Rohde & Schwarz | ESPI | CCIS0022 | Apr 01 2013 | Mar. 31 2014 | |
| 18 | Loop antenna | Laplace instrument | RF300 | EMC0701 | Aug. 12 2013 | Aug. 11 2014 | |
| 19 | Universal radio communication tester | Rhode & Schwarz | CMU200 | CCIS0069 | May. 25 2013 | May. 24 2014 | |
| 20 | Signal Analyzer | Rohde & Schwarz | FSIQ3 | CCIS0088 | May. 25 2013 | May. 24 2014 | |

| Cond | Conducted Emission: | | | | | | | | |
|------|---------------------|--------------------|-----------------------|-----------|--------------|--------------|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory | Cal.Date | Cal.Due date | | | |
| | . oo: _qu.po | | | No. | (mm-dd-yy) | (mm-dd-yy) | | | |
| 1 | Shielding Room | ZhongShuo Electron | 11.0(L)x4.0(W)x3.0(H) | CCIS0061 | June 09 2013 | June 08 2014 | | | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESCI | CCIS0002 | May 25 2013 | May. 24 2014 | | | |
| 3 | LISN | CHASE | MN2050D | CCIS0074 | Apr. 01 2013 | Mar. 31 2014 | | | |
| 4 | Coaxial Cable | CCIS | N/A | CCIS0086 | Apr. 01 2013 | Mar. 31 2014 | | | |



6 Test results and Measurement Data

6.1 Conducted Emission

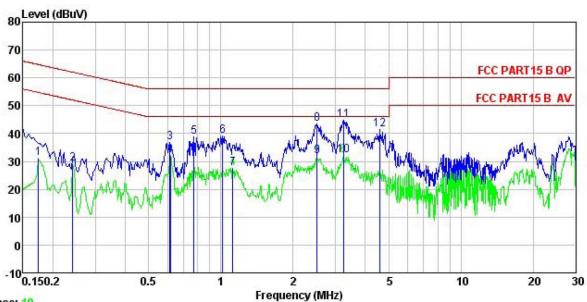
| 7 | Test Requirement: | FCC Part15 B Section 15.107 | | | | | | |
|---|-----------------------|--|--|--|--|--|--|--|
| 7 | Test Method: | ANSI C63.4:2003 | | | | | | |
| 7 | Test Frequency Range: | 150kHz to 30MHz | | | | | | |
| (| Class / Severity: | Class B | | | | | | |
| F | Receiver setup: | RBW=9kHz, VBW=30kHz | | | | | | |
| L | 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 | | | | | | |
| ٦ | Test setup: | Reference Plane | | | | | | |
| | Test procedure | Remark E.U.T Equipment Under Test LISN Line Impedence Stabilization Network Test table height-0.8m 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. | | | | | | |
| ٦ | Test environment: | Temp.: 23 °C Humid.: 56% Press.: 1 01kPa | | | | | | |
| | Measurement Record: | Uncertainty: 3.28dB | | | | | | |
| ٦ | Test Instruments: | Refer to section 5.7 for details | | | | | | |
| 7 | Test mode: | Refer to section 5.3 for details | | | | | | |
| | | Pass | | | | | | |

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Measurement data:

Line:



Trace: 19

Site : CCIS Conducted Test Site
Condition : FCC PART15 B QP LISN LINE
Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 23 °C Huni:56% Atmos:101KPa

Test Engineer: Garen

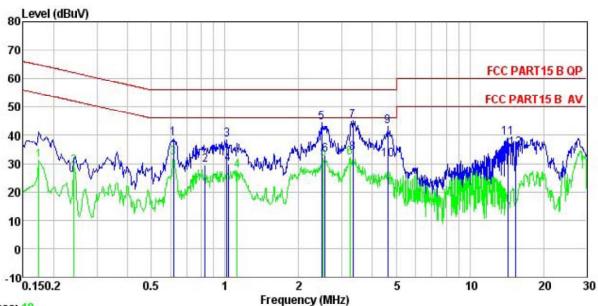
Remark

| | Freq | Read Level | LISN Factor | | Level | Limit Line | Over Limit | Remark |
|--------------------------------------|-------|---------------|----------------|-------|-------|---------------|---------------|---------|
| | MHz | dBu∜ | <u>dB</u> | ₫B | dBu∀ | dBu∜ | <u>dB</u> | |
| 1 | 0.174 | 19.99 | 0.27 | 10.77 | 31.03 | 54.77 | -23.74 | Average |
| 2 | 0.242 | 18.01 | 0.27 | 10.75 | 29.03 | 52.04 | -23.01 | Average |
| 3 | 0.614 | 25.96 | 0.25 | 10.77 | 36.98 | 56.00 | -19.02 | QP |
| 4 | 0.617 | 21.18 | 0.25 | 10.77 | 32.20 | 46.00 | -13.80 | Average |
| 1 2 3 4 5 6 7 8 | 0.771 | 27.71 | 0.23 | 10.80 | 38.74 | 56.00 | -17.26 | QP |
| 6 | 1.016 | 27.95 | 0.25 | 10.87 | 39.07 | 56.00 | -16.93 | QP |
| 7 | 1.123 | 16.33 | 0.25 | 10.88 | 27.46 | 46.00 | -18.54 | Average |
| 8 | 2.513 | 32.20 | 0.27 | 10.94 | 43.41 | 56.00 | -12.59 | QP |
| 9 | 2.513 | 20.58 | 0.27 | 10.94 | 31.79 | 46.00 | -14.21 | Average |
| 10 | 3.241 | 21.02 | 0.27 | 10.91 | 32.20 | 46.00 | -13.80 | Average |
| 11 | 3.258 | 33.52 | 0.27 | 10.91 | 44.70 | 56.00 | -11.30 | QP |
| 12 | 4.574 | 30.25 | 0.29 | 10.87 | 41.41 | 56.00 | -14.59 | QP |
| | | | | | | | | |

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Neutral:



Trace: 19

Site : CCIS Conducted Test Site
Condition : FCC PART15 B OP LISN NEUTRAL
Test Mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Term 22 CC Value 520

Environment : Temp: 23 °C Huni: 56% Atmos: 101KPa

Test Engineer: Garen

Remark

| | Freq | Read Level | LISN Factor | Cable Loss | Level | Limit Line | Over Limit | Remark |
|--------------------------------------|--------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| 1211 | MHz | dBu∜ | <u>dB</u> | <u>d</u> B | dBu∀ | dBu√ | <u>dB</u> | |
| 1 | 0.617 | 27.74 | 0.22 | 10.77 | 38.73 | 56.00 | -17.27 | QP |
| 2 | 0.830 | 18.40 | 0.20 | 10.82 | 29.42 | 46.00 | -16.58 | Average |
| 3 | 1.016 | 27.26 | 0.22 | 10.87 | 38.35 | 56.00 | -17.65 | QP |
| 4 | 1.032 | 18.68 | 0.22 | 10.87 | 29.77 | 46.00 | -16.23 | Average |
| 5 | 2.487 | 33.16 | 0.29 | 10.94 | 44.39 | 56.00 | -11.61 | QP |
| 2 3 4 5 6 7 8 9 | 2.567 | 21.86 | 0.29 | 10.94 | 33.09 | 46.00 | -12.91 | Average |
| 7 | 3.328 | 33.91 | 0.29 | 10.91 | 45.11 | 56.00 | -10.89 | QP |
| 8 | 3.328 | 22.64 | 0.29 | 10.91 | 33.84 | 46.00 | -12.16 | Average |
| 9 | 4.622 | 31.99 | 0.28 | 10.86 | 43.13 | 56.00 | -12.87 | QP |
| 10 | 4.622 | 20.25 | 0.28 | 10.86 | 31.39 | 46.00 | -14.61 | Average |
| 11 | 14.288 | 27.86 | 0.25 | 10.91 | 39.02 | 60.00 | -20.98 | QP |
| 12 | 15.388 | 24.43 | 0.25 | 10.90 | 35.58 | 50.00 | -14.42 | Average |

Notes:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

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6.2 Radiated Emission

| 0.2 Radiated Lillission | | | | | | | | |
|-------------------------|--|------------|--------------|--|------------------|--|--|--|
| Test Requirement: | FCC Part15 B Section 15.109 | | | | | | | |
| Test Method: | ANSI C63.4:2003 | | | | | | | |
| Test Frequency Range: | 30MHz to 6000MHz | | | | | | | |
| Test site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | | | | |
| Receiver setup: | Frequency Detector RBW VBW Remar | | | | | | | |
| | 30MHz-1GHz | Quasi-peak | 120 kHz | 300KHz | Quasi-peak Value | | | |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak Value | | | |
| | 7.5575 161.2 | Peak | 1MHz | 10Hz | Average Value | | | |
| Limit: | Freque | | Limit (dBuV/ | m @3m) | Remark | | | |
| | 30MHz-8 | | 40.0 | | Quasi-peak Value | | | |
| | 88MHz-2 | | 43.5 | | Quasi-peak Value | | | |
| | 216MHz-9 | | 46.0 | | Quasi-peak Value | | | |
| | 960MHz- | ·1GHz | 54.0 | | Quasi-peak Value | | | |
| | Above 1 | GHz | 54.0 | | Average Value | | | |
| | | | 74.0 |) | Peak Value | | | |
| Test setup: | Ground Plane — Above 1GHz | 3m | s | Antenna Tower Horn Antenna pectrum unalyzer | | | | |



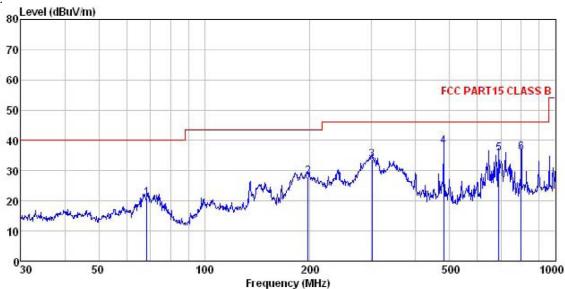
| The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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. 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. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 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. Temp.: 25 °C Humid.: 55% Press.: 1 01kPa | | | | | | |
| Uncertainty: 4.88dB | | | | | | |
| Refer to section 5.7 for details | | | | | | |
| Refer to section 5.3 for details | | | | | | |
| Passed | | | | | | |
| | | | | | | |



Measurement Data

Below 1GHz

Horizontal:



Site : 3m chamber
Condition : FCC PART15 CLASS B 3m VULB9163(30M1G) HORIZONTAL
Test mode : PC MODE
Power Rating : AC120V/60Hz

Environment : Temp: 25.5°C Huni:55%

Test Engineer: Garen REMARK :

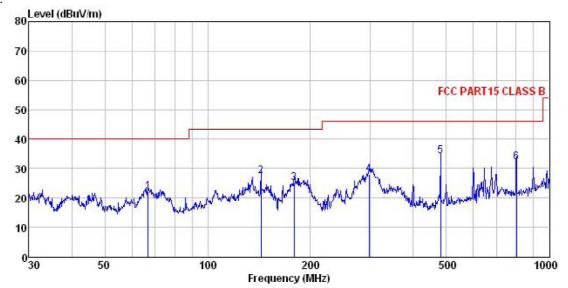
123456

| МΛК | : | | | | | | | | | |
|-----|---------|-------|---------|------|-----------|--------|--------|-----------|--------|--|
| | | | Antenna | | | | | | | |
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark | |
| _ | MHz | dBu∜ | dB/m | | <u>dB</u> | dBuV/m | dBuV/m | <u>dB</u> | | |
| | 68.631 | 40.30 | 9.20 | 1.49 | 30.02 | 20.97 | 40.00 | -19.03 | QP | |
| | 197.200 | 44.33 | 10.57 | 2.85 | 29.82 | 27.93 | 43.50 | -15.57 | QP | |
| | 300.367 | 47.00 | 13.06 | 2.94 | 29.44 | 33.56 | 46.00 | -12.44 | QP | |
| | 480.528 | 48.98 | 16.07 | 3.46 | 30.52 | 37.99 | 46.00 | -8.01 | QP | |
| | 689.565 | 43.28 | 18.78 | 4.11 | 30.60 | 35.57 | 46.00 | -10.43 | QP | |
| | 798.980 | 42.08 | 20.06 | 4.35 | 30.41 | 36.08 | 46.00 | -9.92 | QP | |

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Vertical:



Site

: 3m chamber : FCC PART15 CLASS B 3m VULB9163(30M1G) VERTICAL : PC MODE Condition

Test mode

Power Rating : AC120V/60Hz Environment : Temp:25.5°C Huni:55%

Test Engineer: Garen

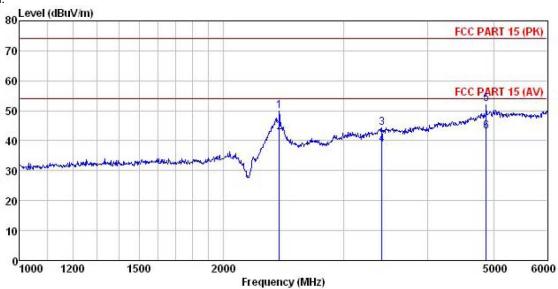
REMARK

| | Freq | | Antenna Factor | | | | | | Remark |
|---|---------|-------|-------------------|------------|-----------|---------------------|--------|-----------|--------|
| | MHz | dBu₹ | <u>dB</u> /π | <u>d</u> B | <u>dB</u> | $\overline{dBuV/m}$ | dBuV/m | <u>dB</u> | |
| 1 | 66.967 | 40.70 | 9.89 | 1.44 | 29.88 | 22.15 | 40.00 | -17.85 | QP |
| 2 | 143.326 | 46.27 | 8.22 | 2.44 | 29.33 | 27.60 | 43.50 | -15.90 | QP |
| 3 | 179.386 | 39.36 | 9.62 | 2.73 | 26.66 | 25.05 | 43.50 | -18.45 | QP |
| 4 | 297.224 | 41.42 | 13.00 | 2.93 | 29.44 | 27.91 | 46.00 | -18.09 | QP |
| 4 | 480.528 | 45.30 | 16.07 | 3.46 | 30.52 | 34.31 | 46.00 | -11.69 | QP |
| | 801.786 | | | | | | | | |



Above 1GHz

Horizontal:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) HORIZONTAL
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp:25°C Huni:55% Atmos:101Kpa
Test Engineer: Garen
Remarb

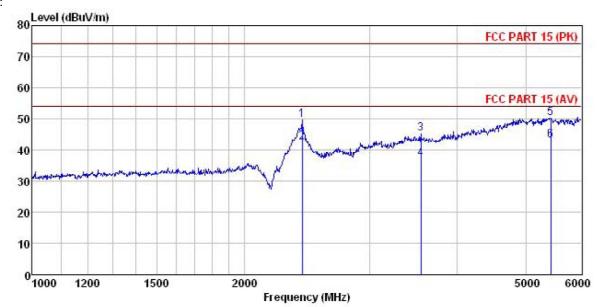
Remark

| | | Read | Antenna | Cable | Preamp | | Limit | Over | |
|---|----------|-------|---------|-------|-----------|---------------------|--------|-----------|---------|
| | Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Remark |
| | MHz | dBu₹ | dB/m | dB | <u>dB</u> | $\overline{dBuV/m}$ | dBuV/m | <u>dB</u> | |
| 1 | 2414.629 | 49.28 | 27.54 | 5.68 | 32.53 | 49.97 | 74.00 | -24.03 | Peak |
| 2 | 2414.629 | 42.23 | 27.54 | 5.68 | 32.53 | 42.92 | 54.00 | -11.08 | Average |
| 3 | 3418.313 | 48.42 | 28.53 | 6.41 | | 44.40 | | | |
| 4 | 3418.313 | 42.80 | 28.53 | 6.41 | 38.96 | 38.78 | 54.00 | -15.22 | Average |
| 5 | 4874.002 | 51.84 | 31.57 | 8.98 | 40.15 | 52.24 | 74.00 | -21.76 | Peak |
| 6 | 4874.002 | 42.56 | 31.57 | 8.98 | 40.15 | 42.96 | 54.00 | -11.04 | Average |

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Vertical:



Site : 3m chamber
Condition : FCC PART 15 (PK) 3m BBHA9120(1G18) VERTICAL
Test mode : PC mode
Power Rating : AC 120V/60Hz
Environment : Temp: 25°C Huni: 55% Atmos: 101Kpa

Test Engineer: Garen

Remark

| | Freq | | Antenna Factor | | | | | | Remark |
|---|----------|-------|-------------------|------|-----------|--------|--------|-----------|---------|
| - | MHz | dBu∜ | <u>dB</u> /m | ₫B | <u>dB</u> | dBuV/m | dBuV/m | <u>dB</u> | |
| 1 | 2410.306 | 48.96 | 27.54 | 5.68 | 32.53 | 49.65 | 74.00 | -24.35 | Peak |
| 2 | 2410.306 | 41.78 | 27.54 | 5.68 | 32.53 | 42.47 | 54.00 | -11.53 | Average |
| 3 | 3549.384 | 49.79 | 29.08 | 6.18 | 39.96 | 45.09 | 74.00 | -28.91 | Peak |
| 4 | 3549.384 | 41.76 | 29.08 | 6.18 | 39.96 | 37.06 | 54.00 | -16.94 | Average |
| 5 | 5427.187 | 49.45 | 31.91 | 9.15 | 40.21 | 50.30 | 74.00 | -23.70 | Peak |
| 6 | 5427 187 | 42 33 | 31 91 | 9 15 | 40 21 | 43 18 | 54 00 | -10.82 | Average |