

FCC Radio Test Report FCC ID: Z6H-SKT-WAV2

This report concerns (check one) : Original Grant Class I Change

Issued Date : Nov. 04, 2011
Project No. : R1108006
Equipment : 5.8G transmitter
Model Name : WAV-RFM-001

Applicant: SKY Tech Worldwide, Inc.

Address: 15870 El Prado Rd, Suite B Chino,

CA 91708 USA

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Sep. 08, 2011

Date of Test: Sep. 08, 2011 ~ Sep. 22, 2011

Testing Engineer:

(Rush Kao)

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R-2829 T-1666 T-1667



Declaration

Neutron represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with the standards traceable to National Measurement Laboratory (**NML**) of **R.O.C.**, or National Institute of Standards and Technology (**NIST**) of **U.S.A.**

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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

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1. CERTIFICATION

Equipment: 5.8G transmitter Brand Name: SKY Tech Model No.: WAV-RFM-001

Applicant: SKY Tech Worldwide, Inc. Date of Test: Sep. 08, 2011 ~ Sep. 22, 2011

Standards: FCC Part15, Subpart C(15.249) / ANCI C63.4: 2003

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FCCP-1-R1108006) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP and TAF according to the ISO-17025 quality assessment standard and technical standard(s).

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

| FCC Part15, Subpart C | | | |
|-----------------------|----------------------------|----------|--------|
| Standard Section | Test Item | Judgment | Remark |
| 15.207 | Conducted Emission | PASS | |
| 15.209 | Radiated Emission | PASS | |
| 15.249 | Radiated Spurious Emission | PASS | |

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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2.1 TEST FACILITY

The test facilities used to collect the test data in this report:

C02: (VCCI RN: C-3477; FCC RN: 614388; FCC DN: TW1054)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

CB08: (VCCI RN: G-91; FCC RN: 614388; FCC DN: TW1010;

IC Assigned Code: 4428C-1)

1F., No. 61, Ln. 77, Sing-ai Rd., Neihu Dist., Taipei City 114, Taiwan (R.O.C.)

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95%.

The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2.

A. Conducted Measurement:

| Test Site | Method | Measurement Frequency Range | U,(dB) | NOTE |
|-----------|--------|-----------------------------|--------|------|
| C02 | ANSI | 150 kHz ~ 30 MHz | 2.59 | |

B. Radiated Measurement:

| Test Site | Item | Measurement | Frequency Range | Uncertainty | NOTE | | |
|-----------|-------------------------------|--------------|-----------------|-------------|---------------|---------|--|
| | | | 30 - 200MHz | 3.35 dB | | | |
| | | Horizontal | 200 - 1000MHz | 3.11 dB | | | |
| | Radiated Emission at 3m | | 1 - 18GHz | 3.97 dB | | | |
| CB08 | | | 18 - 40GHz | 4.01 dB | | | |
| CBUO | | | 30 - 200MHz | 3.22 dB | | | |
| | | SIII | Vertical | Vertical | 200 - 1000MHz | 3.24 dB | |
| | | Polarization | 1 - 18GHz | 4.05 dB | | | |
| | | | 18 - 40GHz | 4.04 dB | | | |

Our calculated Measurement Instrumentation Uncertainty is shown in the tables above. These are our U_{lab} values in CISPR 16-4-2 terminology.

Since Table 1 of CISPR 16-4-2 has values of measurement instrumentation uncertainty, called U_{CISPR} , as follows:

Conducted Disturbance (mains port) - 150 kHz - 30 MHz : 3.6 dB

Radiated Disturbance (electric field strength on an open area test site or alternative test site) – 30 MHz – 1000 MHz : 5.2 dB

It can be seen that our U_{lab} values are smaller than U_{CISPR} .

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3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| Equipment | 5.8G transmitter | | | |
|------------------------|-----------------------------------|--|--|--|
| Brand Name | SKY Tech | | | |
| Model No. | WAV-RFM-001 | WAV-RFM-001 | | |
| OEM Brand/Model No. | N/A | | | |
| Model Difference | N/A | | | |
| | The EUT is an 5.8G tra | ansmitter. | | |
| | Operation Frequency: | 5790~5847 MHz | | |
| | Modulation Type: | FM | | |
| | Bit Rate of Transmitter: | 4Mbps | | |
| | Number Of Channel | Please see Note 2. | | |
| Product Description | Antenna Designation: | Please see Note 3. | | |
| 1 Toddet Description | Antenna Gain(Peak) | Please see Note 3. | | |
| | Output Power: | 105.87 dBuV/m (Max.) | | |
| | | on, features, or specification exhibited | | |
| | | EUT is considered as an | | |
| | | . More details of EUT technical | | |
| | · • | fer to the User's Manual. | | |
| Power Source | Supplied from battery. | | | |
| Power Rating | DC 3.7V | | | |
| Connecting I/O Port(s) | Please refer to the User's Manual | | | |
| Products Covered | N/A | | | |
| EUT Modification(s) | N/A | | | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2.

| Channel List | | |
|--------------|--------------------|--|
| Channel | Frequency (MHz) | |
| 01 | 5790 | |
| 02 | 5828 | |
| 03 | 5847 | |

3. Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|---------|-------------------|--------------|------------|------------|
| 1 | Skytech | WAV-001-TXB-E-120 | Circular | U.LF(RoHS) | 0.98 |
| 2 | Skytech | TX_150 | Circular | U.LF(RoHS) | 1.62 |

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3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Test Mode | Description |
|-------------------|-------------|
| Mode 1 | 5790 MHz |
| Mode 2 | 5828 MHz |
| Mode 3 | 5847 MHz |
| Mode 4 | Charge |

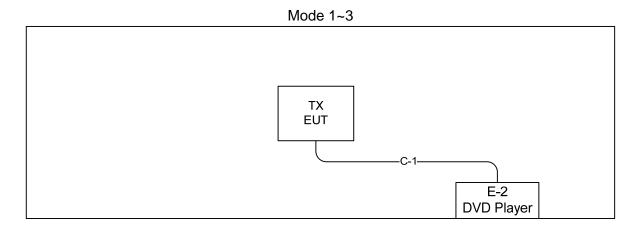
| For Conducted Test | | |
|-----------------------------|--------|--|
| Final Test Mode Description | | |
| Mode 4 | Charge | |

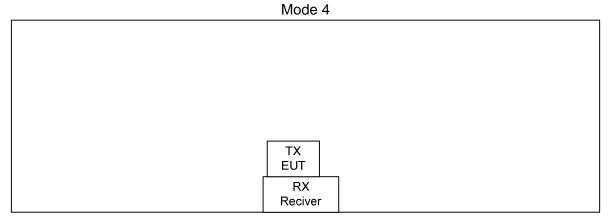
| For Radiated Test | | |
|-------------------|-------------|--|
| Final Test Mode | Description | |
| Mode 1 | 5790 MHz | |
| Mode 2 | 5828 MHz | |
| Mode 3 | 5847 MHz | |

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3.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





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3.4 DESCRIPTION OF SUPPORT UNITS

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

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID | Series No. | Note |
|------|---------------------|-----------|----------------|--------------|-------------|------|
| E-1 | 5.8G transmitter | SKY Tech | WAV-RFM-001 | Z6H-SKT-WAV2 | N/A | EUT |
| E-2 | CD/DVD Player | SONY | DVP-NS975V | N/A | 2030851 14W | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|-------------|
| C-1 | NO | NO | 1.8M | Video cable |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>[Length]</code> column.

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4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION (FREQUENCY RANGE 150 KHZ-30MHZ)

| FREQUENCY (MHz) | Class A | (dBuV) | Class B (dBuV) | | |
|--------------------|------------|---------|----------------|-----------|--|
| FREQUENCT (IVITIZ) | Quasi-peak | Average | Quasi-peak | Average | |
| 0.15 -0.5 | 79.00 | 66.00 | 66 - 56 * | 56 - 46 * | |
| 0.50 -5.0 | 73.00 | 60.00 | 56.00 | 46.00 | |
| 5.0 -30.0 | 73.00 | 60.00 | 60.00 | 50.00 | |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

 Measurement Value = Reading Level + Correct Factor

 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)

 Margin Level = Measurement Value Limit Value

4.1.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-----------------------|--------------|-----------|------------|------------------|
| 1 | TWO-LINE V-NETWORK | R&S | ENV216 | 101050 | Jun. 06, 2012 |
| 2 | TWO-LINE V-NETWORK | R&S | ENV216 | 101051 | Jun. 06, 2012 |
| 3 | Test Cable | TIMES | CFD300-NL | 130 | Jun. 16, 2012 |
| 4 | EMI Test Receiver | R&S | ESCS30 | 833364/017 | Aug. 02, 2012 |

Remark: "N/A" denotes No Model Name, Serial No. or No Calibration specified.

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4.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

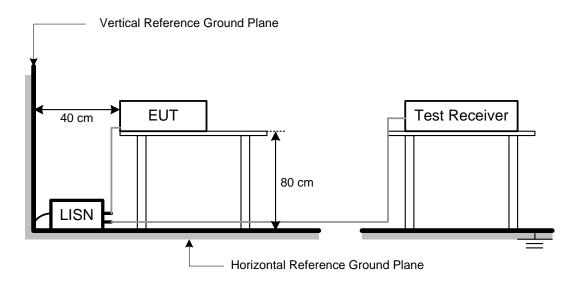
NOTE:

- a. Reading in which marked as Peak, QP or AVG means measurements by using are Quasi-Peak or Average Mode with Detector BW=9 kHz; SPA setting in RBW=10 kHz, VBW =10 kHz, Swp. Time = 0.2 sec./ MHz.
- b. All readings are Peak Mode value unless otherwise stated QP or AVG in column of Note. If the Peak or QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only Peak or QP Mode was measured, but AVG Mode didn't perform.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 TEST SETUP



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| FUTROS |
|---|
| 4.1.6 EUT OPERATING CONDITIONS |
| The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data. |
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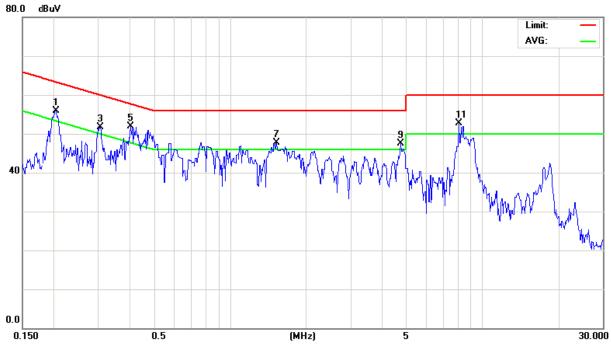
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4.1.7 TEST RESULTS

| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 24°C | Relative Humidity: | 48% |
| Test Voltage: | AC 120V/60Hz | | |
| Test Mode: | Charge Mode | | |

Phase: Line

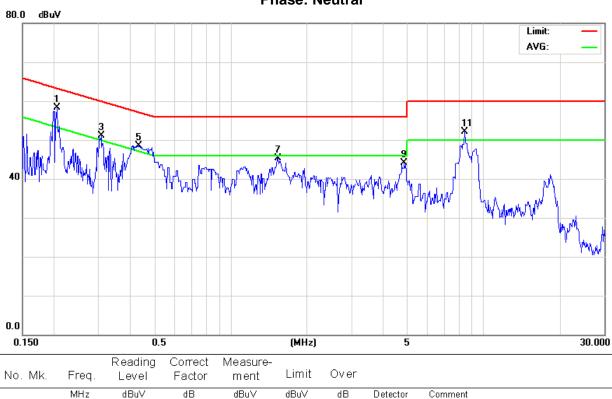


| No. Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|---------|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | MHz | dBu∨ | dB | dBu∨ | dBu∀ | dB | Detector | Comment |
| 1 | 0.2046 | 46.21 | 9.60 | 55.81 | 63.42 | -7.61 | peak | |
| 2 | 0.2046 | 28.32 | 9.60 | 37.92 | 53.42 | -15.50 | AVG | |
| 3 | 0.3054 | 42.16 | 9.61 | 51.77 | 60.09 | -8.32 | peak | |
| 4 | 0.3054 | 21.98 | 9.61 | 31.59 | 50.09 | -18.50 | AVG | |
| 5 * | 0.4034 | 42.23 | 9.62 | 51.85 | 57.78 | -5.93 | peak | |
| 6 | 0.4034 | 19.11 | 9.62 | 28.73 | 47.78 | -19.05 | AVG | |
| 7 | 1.5260 | 37.98 | 9.63 | 47.61 | 56.00 | -8.39 | peak | |
| 8 | 1.5260 | 21.74 | 9.63 | 31.37 | 46.00 | -14.63 | AVG | |
| 9 | 4.7480 | 37.81 | 9.70 | 47.51 | 56.00 | -8.49 | peak | |
| 10 | 4.7480 | 17.27 | 9.70 | 26.97 | 46.00 | -19.03 | AVG | |
| 11 | 8.1000 | 42.84 | 9.77 | 52.61 | 60.00 | -7.39 | peak | |
| 12 | 8.1000 | 21.75 | 9.77 | 31.52 | 50.00 | -18.48 | AVG | |

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| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 24°C | Relative Humidity: | 48% |
| Test Voltage: | AC 120V/60Hz | | |
| Test Mode : | Charge Mode | | |

Phase: Neutral



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| - | | MHz | dBu∀ | dB | dBu∀ | dBu∀ | dB | Detector | Comment |
| 1 | * | 0.2067 | 48.79 | 9.60 | 58.39 | 63.34 | -4.95 | peak | |
| 2 | | 0.2067 | 25.54 | 9.60 | 35.14 | 53.34 | -18.20 | AVG | |
| 3 | | 0.3075 | 41.40 | 9.61 | 51.01 | 60.04 | -9.03 | peak | |
| 4 | | 0.3075 | 23.59 | 9.61 | 33.20 | 50.04 | -16.84 | AVG | |
| 5 | | 0.4342 | 38.94 | 9.61 | 48.55 | 57.17 | -8.62 | peak | |
| 6 | | 0.4342 | 20.88 | 9.61 | 30.49 | 47.17 | -16.68 | AVG | |
| 7 | | 1.5350 | 35.70 | 9.62 | 45.32 | 56.00 | -10.68 | peak | |
| 8 | | 1.5350 | 18.37 | 9.62 | 27.99 | 46.00 | -18.01 | AVG | |
| 9 | | 4.8649 | 34.37 | 9.70 | 44.07 | 56.00 | -11.93 | peak | |
| 10 | | 4.8649 | 12.58 | 9.70 | 22.28 | 46.00 | -23.72 | AVG | |
| 11 | | 8.4500 | 42.30 | 9.78 | 52.08 | 60.00 | -7.92 | peak | |
| 12 | | 8.4500 | 15.85 | 9.78 | 25.63 | 50.00 | -24.37 | AVG | |
| | | | | | | | | | |

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4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (FCC 15.209)

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|----------------------|--------------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (FCC 15.209)

| EDEOLIENCY (MHz) | (dBuV/m | (dBuV/m) (at 1.5m) | | |
|------------------|---------|--------------------|--|--|
| FREQUENCY (MHz) | PEAK | AVERAGE | | |
| Above 1000 | 80 | 60 | | |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

 The limits above 5GHz shall be extrapolated to the specific control of the specific control

The limits above 5GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade form 3m to 1.5m

Distance extrapolation factor = 20 log (3m/1.5m) dB;

Limit line = specific limits (dBuV) + 6 dB

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

| Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz) | Range (MHz) |
|---|---|
| Below 1.705 | 30 |
| 1.705 – 108 | 1000 |
| 108 – 500 | 2000 |
| 500 – 1000 | 5000 |
| Above 1000 | 5 th harmonic of the highest frequency or 40 GHz, whichever is lower |

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4.2.2 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|----------------------------|--------------|--------------|------------|------------------|
| 1 | Spectrum Analyzer | R&S | FSP-40 | 100129 | Aug. 30, 2012 |
| 2 | Horn Antenna | Schwarzbeck | BBHA 9120 | D-325 | Dec. 08, 2011 |
| 3 | Microwave Pre_amplifier | Agilent | 8449B | 3008A01714 | Apr. 18, 2012 |
| 4 | Microflex Cable | N/A | N/A | 1m | May. 18, 2012 |
| 5 | Microflex Cable | AISI | S104-SMAP-1 | 10m | Aug. 21, 2012 |
| 6 | Microflex Cable | N/A | N/A | 3m | Aug. 21, 2012 |
| 7 | Test Cable | N/A | LMR-400 | 966_12m | Jun. 16, 2012 |
| 8 | Test Cable | N/A | LMR-400 | 966_3m | Jun. 16, 2012 |
| 9 | Pre-Amplifier | EMC | EMC-330 | 980001 | Jun. 02, 2012 |
| 10 | Log-Bicon Antenna | Schwarzbeck | VULB9168-352 | 9168-352 | Jun. 20, 2012 |
| 11 | Horn Antenna | Schwarzbeck | BBHA 9170 | 187 | Dec. 12, 2011 |

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

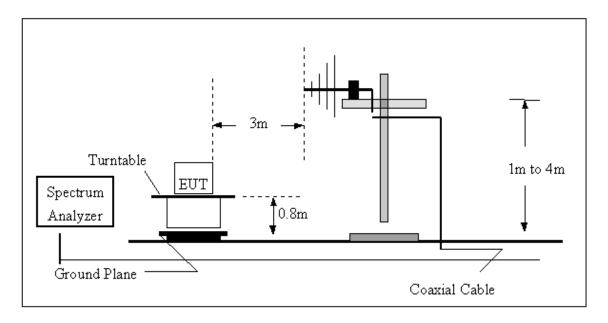
4.2.4 DEVIATION FROM TEST STANDARD

No deviation

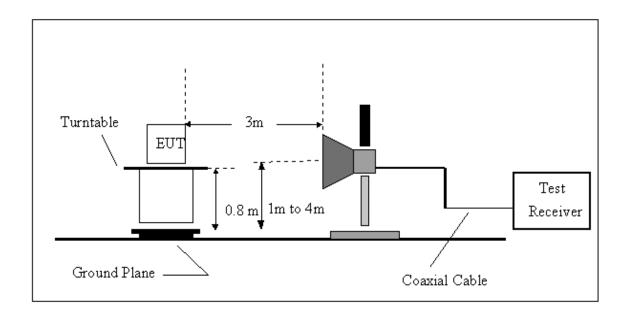
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4.2.5 TEST SETUP

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



4.2.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of **4.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.

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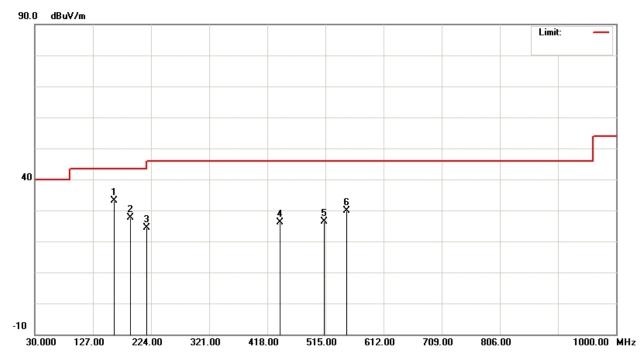
4.2.7 TEST RESULTS (Between 30 – 1000 MHz)

| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode: | 5828 MHz | | |

| Freq. | Ant. | Reading(RA) | Corr.Factor(CF) | Measured(FS) | Limits(QP) | Margin | Note |
|----------|------|-------------|-----------------|--------------|------------|---------|------|
| (MHz) | H/V | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | NOTE |
| 161.9199 | V | 46.29 | -13.27 | 33.02 | 43.50 | - 10.48 | |
| 189.0800 | V | 43.74 | -15.99 | 27.75 | 43.50 | - 15.75 | |
| 216.2400 | V | 40.04 | -15.57 | 24.47 | 46.00 | - 21.53 | |
| 439.3399 | V | 35.05 | -9.03 | 26.02 | 46.00 | - 19.98 | |
| 513.0599 | V | 34.24 | -7.79 | 26.45 | 46.00 | - 19.55 | |
| 549.9199 | V | 37.06 | -7.30 | 29.76 | 46.00 | - 16.24 | |

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of [Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency \circ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission •
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

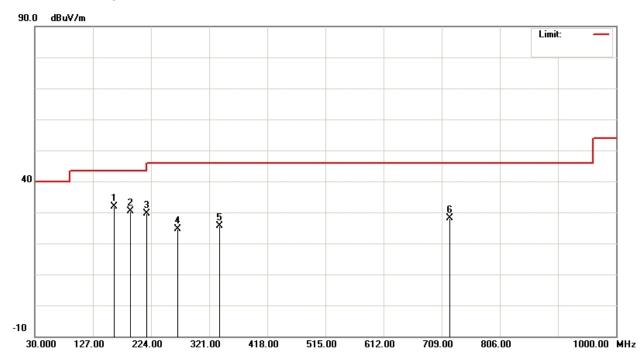


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| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode: | 5828 MHz | | |

| Freq. | Ant. | Reading(RA) | Corr.Factor(CF) | Measured(FS) | Limits(QP) | Margin | Note |
|----------|------|-------------|-----------------|--------------|------------|---------|------|
| (MHz) | H/V | (dBuV) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | Note |
| 161.9199 | Н | 45.12 | -13.27 | 31.85 | 43.50 | - 11.65 | |
| 189.0800 | Н | 46.36 | -15.99 | 30.37 | 43.50 | - 13.13 | |
| 216.2400 | Н | 45.17 | -15.57 | 29.60 | 46.00 | - 16.40 | |
| 268.6199 | Н | 38.02 | -13.50 | 24.52 | 46.00 | - 21.48 | |
| 338.4599 | Н | 37.31 | -11.64 | 25.67 | 46.00 | - 20.33 | |
| 722.5800 | Н | 32.08 | -4.05 | 28.03 | 46.00 | - 17.97 | |

- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency \circ "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency.
- (3) Radiated emissions measured in frequency range from 30 MHz to 1000 MHz were made with an instrument using Peak detector mode or QP detector mode of the emission $\,^{\circ}$
- (4) Data of measurement within this frequency range shown " " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.



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4.2.8 TEST RESULTS (Above 1000 MHz)

| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode: | 5790 MHz | | |

| Freq. | Polarization | Reading L | evel(dBuV) | Correct | Measureme | nt(dBuV/m) | Limit(d | lBuV/m) | Margin | Note |
|-----------|--------------|-----------|------------|------------|-----------|------------|---------|---------|---------|------|
| (MHz) | H/V | Peak | AV | Factor(dB) | Peak | AV | Peak | AV | (dB) | NOIG |
| 5792.000 | V | 64.43 | 53.90 | 39.89 | 104.32 | 93.79 | 120.00 | 100.00 | - 6.21 | X/F |
| 11578.160 | V | 46.28 | 34.89 | 14.45 | 60.73 | 49.34 | 80.00 | 60.00 | - 10.66 | X/H |
| 17481.301 | V | 46.27 | 34.95 | 17.54 | 63.81 | 52.49 | 80.00 | 60.00 | - 7.51 | X/H |
| 23165.301 | V | 45.96 | 34.87 | 22.99 | 68.95 | 57.86 | 80.00 | 60.00 | - 2.14 | X/H |

Remark:

- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m l}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m o}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) Emission level (dBuV/m)=20log Emission level (uV/m).

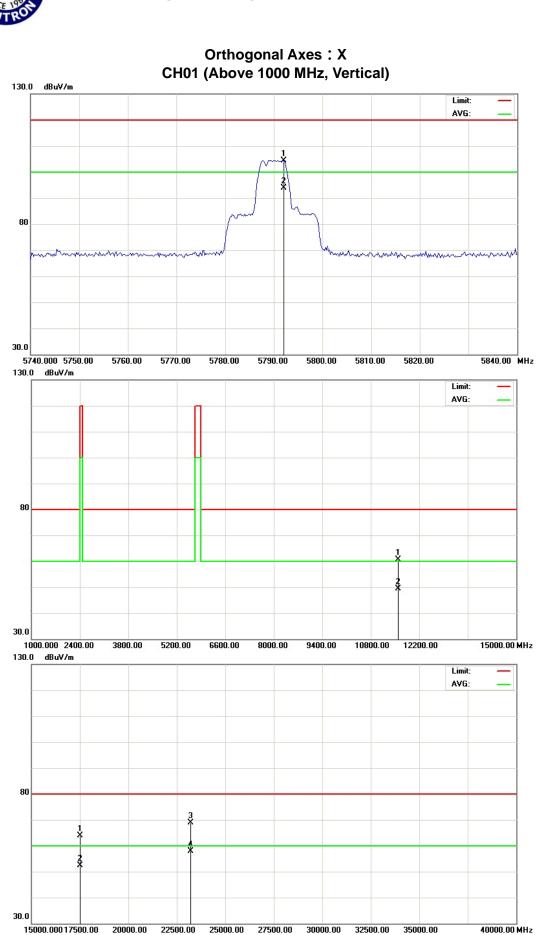
The limits above 5GHz shall be extrapolated to the specified distance using an Extrapolation factor of 20dB/decade form 3m to 1.5m

Distance extrapolation factor = 20 log (3m/1.5m) dB

Limit line = specific limits (dBuV) + 6 dB

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Neutron Engineering Inc.



| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode: | 5790 MHz | | |

| Freq. | Polarization | Reading Le | evel(dBuV) | Correct | Measureme | nt(dBuV/m) | Limit(d | lBuV/m) | Margin | Note |
|-----------|--------------|------------|------------|------------|-----------|------------|---------|---------|--------|------|
| (MHz) | H/V | Peak | AV | Factor(dB) | Peak | AV | Peak | AV | (dB) | NOIG |
| 5787.600 | Н | 64.25 | 53.61 | 39.87 | 104.12 | 93.48 | 120.00 | 100.00 | - 6.52 | X/F |
| 11578.240 | Н | 50.29 | 37.73 | 14.45 | 64.74 | 52.18 | 80.00 | 60.00 | - 7.82 | X/H |
| 17367.199 | Н | 50.86 | 38.13 | 17.45 | 68.31 | 55.58 | 80.00 | 60.00 | - 4.42 | X/H |
| 23169.100 | Н | 46.88 | 35.53 | 22.99 | 69.87 | 58.52 | 80.00 | 60.00 | - 1.48 | X/H |

- (1) All readings are Peak unless otherwise stated QP in column of ${}^{\mathbb{F}}$ Note ${}_{\mathbb{J}}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ${}_{\circ}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission \circ
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) Emission level (dBuV/m)=20log Emission level (uV/m).

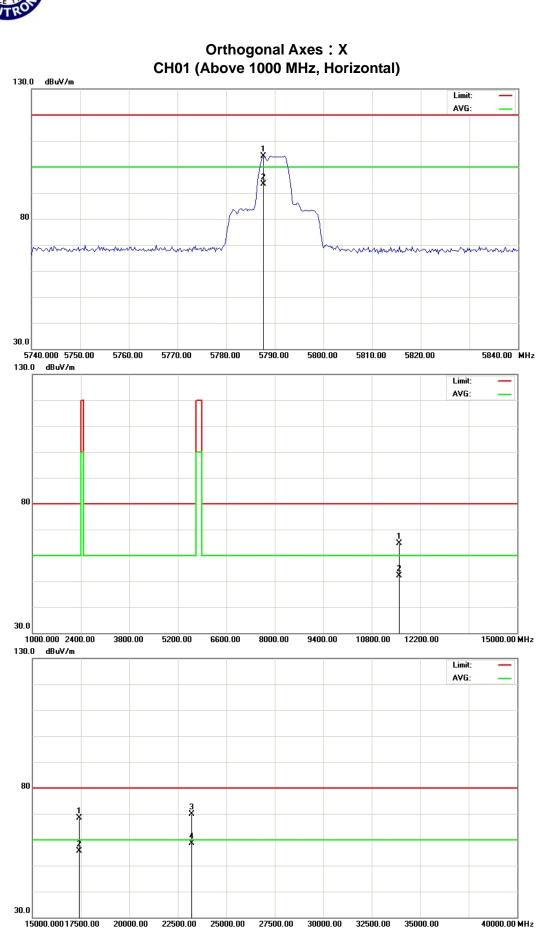
The limits above 5GHz shall be extrapolated to the specified distance using an Extrapolation factor of 20dB/decade form 3m to 1.5m

Distance extrapolation factor = 20 log (3m/1.5m) dB

Limit line = specific limits (dBuV) + 6 dB

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Neutron Engineering Inc.



| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode: | 5828 MHz | | |

| Freq. | Polarization | Reading L | evel(dBuV) | Correct | Measureme | nt(dBuV/m) | Limit(c | lBuV/m) | Margin | Note |
|-----------|--------------|-----------|------------|------------|-----------|------------|---------|---------|---------|------|
| (MHz) | H/V | Peak | AV | Factor(dB) | Peak | AV | Peak | AV | (dB) | NOLE |
| 5830.000 | V | 65.35 | 54.77 | 40.02 | 105.37 | 94.79 | 120.00 | 100.00 | - 5.21 | X/F |
| 11654.210 | V | 46.53 | 33.81 | 14.49 | 61.02 | 48.30 | 80.00 | 60.00 | - 11.70 | X/H |
| 17481.301 | V | 46.12 | 34.56 | 17.54 | 63.66 | 52.10 | 80.00 | 60.00 | - 7.90 | X/H |
| 23309.061 | V | 48.83 | 35.97 | 22.92 | 71.75 | 58.89 | 80.00 | 60.00 | - 1.11 | X/H |

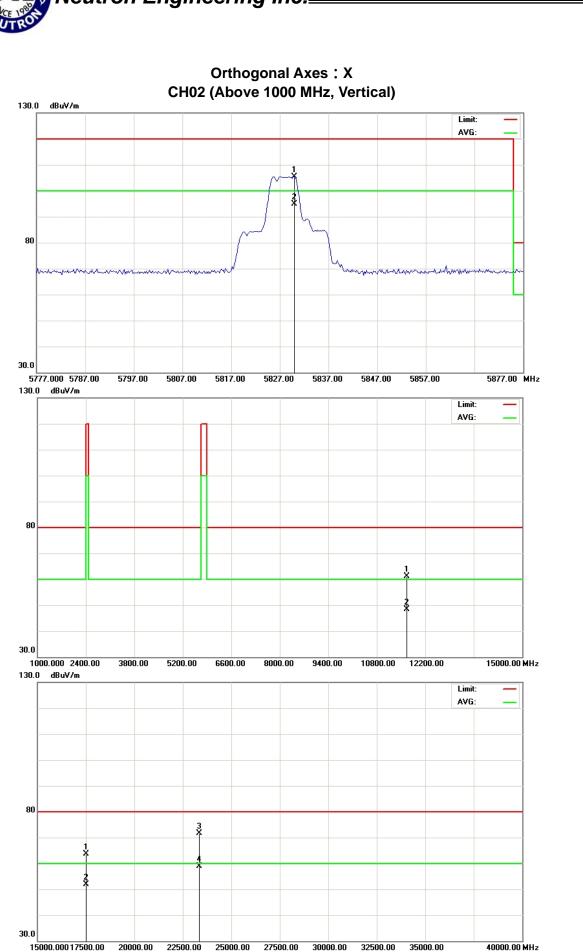
- (1) All readings are Peak unless otherwise stated QP in column of \lceil Note $_{
 m J}$. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform $_{
 m O}$
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of F' denotes fundamental frequency; "H' denotes spurious frequency. "E' denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission o
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) Emission level (dBuV/m)=20log Emission level (uV/m).

The limits above 5GHz shall be extrapolated to the specified distance using an Extrapolation factor of 20dB/decade form 3m to 1.5m

Distance extrapolation factor = 20 log (3m/1.5m) dB

Limit line = specific limits (dBuV) + 6 dB

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| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode: | 5828 MHz | | |

| Freq. | Polarization | Reading Le | evel(dBuV) | Correct | Measureme | nt(dBuV/m) | Limit(d | lBuV/m) | Margin | Note |
|-----------|--------------|------------|------------|------------|-----------|------------|---------|---------|--------|------|
| (MHz) | H/V | Peak | AV | Factor(dB) | Peak | AV | Peak | AV | (dB) | NOLE |
| 5825.800 | Н | 61.42 | 50.80 | 40.01 | 101.43 | 90.81 | 120.00 | 100.00 | - 9.19 | X/F |
| 11654.320 | Н | 47.64 | 35.56 | 14.49 | 62.13 | 50.05 | 80.00 | 60.00 | - 9.95 | X/H |
| 17481.020 | Н | 49.19 | 36.34 | 17.54 | 66.73 | 53.88 | 80.00 | 60.00 | - 6.12 | X/H |
| 23309.061 | Н | 47.58 | 35.93 | 22.92 | 70.50 | 58.85 | 80.00 | 60.00 | - 1.15 | X/H |

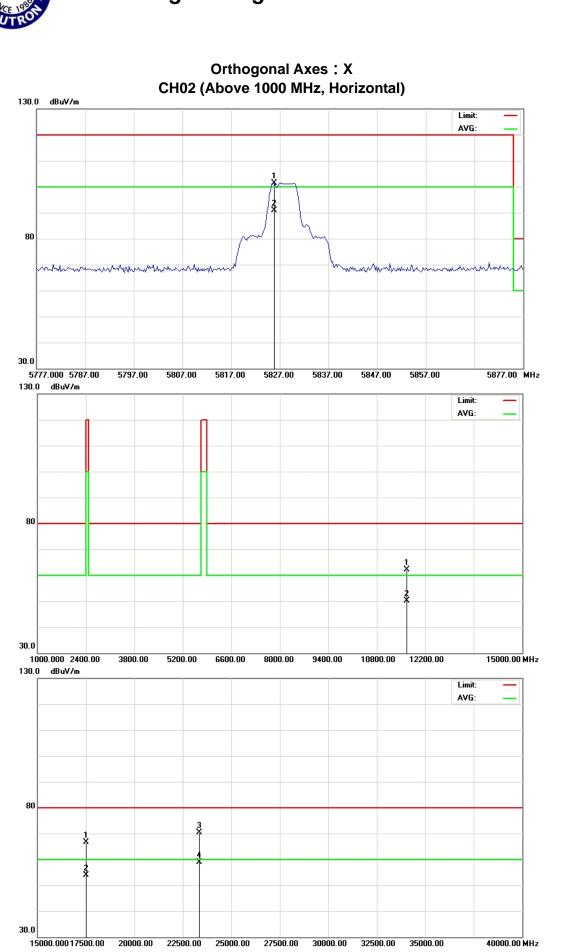
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform o
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency of "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission o
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) Emission level (dBuV/m)=20log Emission level (uV/m).

The limits above 5GHz shall be extrapolated to the specified distance using an Extrapolation factor of 20dB/decade form 3m to 1.5m

Distance extrapolation factor = 20 log (3m/1.5m) dB

Limit line = specific limits (dBuV) + 6 dB

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| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode : | 5847 MHz | | |

| Freq. | Polarization | Reading Le | evel(dBuV) | Correct | Measureme | nt(dBuV/m) | Limit(c | dBuV/m) | Margin | Note |
|-----------|--------------|------------|------------|------------|-----------|------------|---------|---------|--------|------|
| (MHz) | H/V | Peak | AV | Factor(dB) | Peak | AV | Peak | AV | (dB) | NOLE |
| 5844.800 | V | 65.79 | 55.10 | 40.08 | 105.87 | 95.18 | 120.00 | 100.00 | - 4.82 | X/F |
| 5875.000 | V | 28.24 | 16.99 | 40.18 | 68.42 | 57.17 | 80.00 | 60.00 | - 2.83 | X/H |
| 11694.440 | V | 47.96 | 36.84 | 14.51 | 62.47 | 51.35 | 80.00 | 60.00 | - 8.65 | X/H |
| 17538.199 | V | 45.47 | 34.23 | 17.58 | 63.05 | 51.81 | 80.00 | 60.00 | - 8.19 | X/H |
| 23377.900 | V | 47.56 | 35.77 | 22.88 | 70.44 | 58.65 | 80.00 | 60.00 | - 1.35 | X/H |

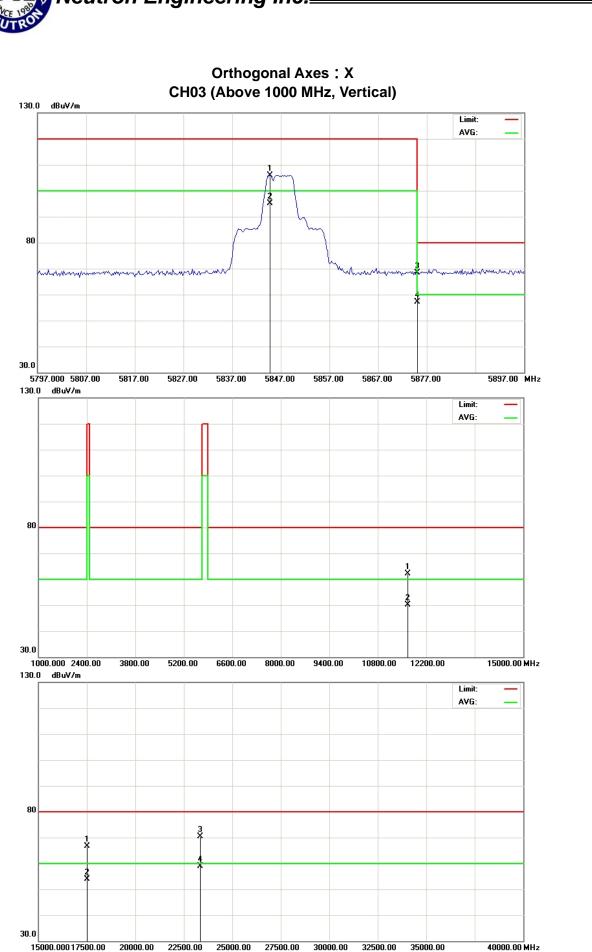
- (1) All readings are Peak unless otherwise stated QP in column of 『Note』. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform ∘
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) Emission level (dBuV/m)=20log Emission level (uV/m).

The limits above 5GHz shall be extrapolated to the specified distance using an Extrapolation factor of 20dB/decade form 3m to 1.5m

Distance extrapolation factor = 20 log (3m/1.5m) dB

Limit line = specific limits (dBuV) + 6 dB

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| E.U.T: | 5.8G transmitter | Model Name : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature : | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode: | 5847 MHz | | |

| Freq. | Polarization | Reading Le | evel(dBuV) | Correct | Measureme | nt(dBuV/m) | Limit(d | BuV/m) | Margin | Note |
|-----------|--------------|------------|------------|------------|-----------|------------|---------|--------|---------|------|
| (MHz) | H/V | Peak | AV | Factor(dB) | Peak | AV | Peak | AV | (dB) | NOIG |
| 5844.600 | Н | 60.51 | 49.77 | 40.08 | 100.59 | 89.85 | 120.00 | 100.00 | - 10.15 | X/F |
| 5875.000 | Н | 28.33 | 17.01 | 40.18 | 68.51 | 57.19 | 80.00 | 60.00 | - 2.81 | X/H |
| 11694.400 | Н | 47.85 | 39.97 | 14.51 | 62.36 | 54.48 | 80.00 | 60.00 | - 5.52 | X/H |
| 17538.100 | Н | 46.10 | 34.69 | 17.58 | 63.68 | 52.27 | 80.00 | 60.00 | - 7.73 | X/H |
| 23383.600 | Н | 47.51 | 36.01 | 22.88 | 70.39 | 58.89 | 80.00 | 60.00 | - 1.11 | X/H |

- (1) All readings are Peak unless otherwise stated QP in column of [Note]. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform \circ
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission •
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axes:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) Emission level (dBuV/m)=20log Emission level (uV/m).

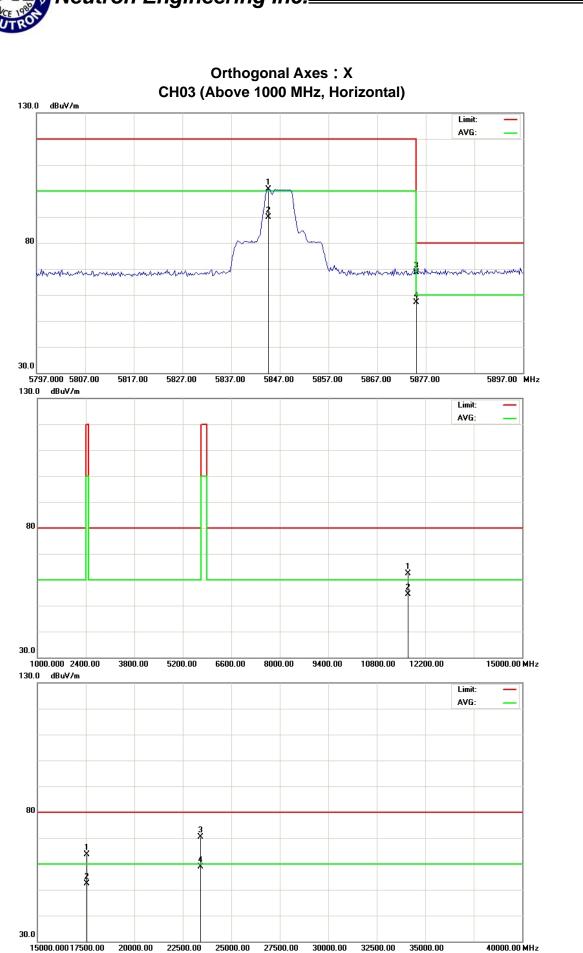
The limits above 5GHz shall be extrapolated to the specified distance using an Extrapolation factor of 20dB/decade form 3m to 1.5m

Distance extrapolation factor = 20 log (3m/1.5m) dB

Limit line = specific limits (dBuV) + 6 dB

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Neutron Engineering Inc.



5. ANTENNA CONDUCTED SPURIOUS EMISSION

5.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies (MHz) | Field Strength (micorvolts/meter) | Measurement Distance (meters) |
|----------------------|-----------------------------------|-------------------------------|
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

5.1.1 MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer | Type No. | Serial No. | Calibrated until |
|------|-------------------|--------------|----------|------------|------------------|
| 1 | Spectrum Analyzer | R&S | FSP-40 | 100129 | Aug. 30, 2012 |

Remark: "N/A" denotes No Model Name., Serial No. or No Calibration specified.

5.1.2 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=100KHz, Sweep time = AUTO.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

5.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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5.1.6 TEST RESULTS

| EUT: | 5.8G transmitter | Model Name. : | WAV-RFM-001 |
|---------------|------------------|--------------------|-------------|
| Temperature: | 26°C | Relative Humidity: | 60% |
| Test Voltage: | DC 3.7V | | |
| Test Mode : | TX CH01,CH03 | | |

| Channel of Worst Data: | | | | | | |
|--|------------|---|------------|--|--|--|
| The max. radio frequence bandwidth outside t | | The max. radio frequence bandwidth within the | | | | |
| FREQUENCY(MHz) | POWER(dBm) | FREQUENCY(MHz) | POWER(dBm) | | | |
| 5722.6 | -58.98 | 5883 | -57.23 | | | |
| Pocult | | | | | | |

Result

In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 50dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

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