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FEDERAL COMMUNICATIONS COMMISSION

Registration number: 282399

Report No.: SZEMO071203569RFT

Page: 1 of 33 FCC ID:VUY1048B

TEST REPORT

Application No. : SZEMO071203569RF **Applicant:** Vocentrix(HK)Limited

FCC ID: VUY1048B

Fundamental Carrier 2.4000GHz to 2.4835GHz

Frequency:

Equipment Under Test (EUT):

Name: Baby monitor

Model: 08280

Standards: FCC PART 15, SUBPART C: 2007 (Section 15.247)

Date of Receipt: 10 December 2007

Date of Test: 11 December 2007

Date of Issue: 14 December 2007

Test Result : PASS *

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

Robinson Lo Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. 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 SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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Test Summary 2

| The customer requested FCC tests for Baby monitor. | | | | | |
|--|--------------------|----------------------------------|--------|--|--|
| Test | Test Requirement | Standard Paragraph | Result | | |
| Conducted Emission (150KHz to 30MHz) | FCC PART 15 : 2007 | Section 15.207 | PASS | | |
| Radiated Emission (30MHz to 25GHz) | FCC PART 15 : 2007 | Section 15.209 Section 15.205 | PASS | | |
| Maximum Peak Output Power | FCC PART 15 : 2007 | Section 15.247 (b) | PASS | | |
| Occupied Bandwidth | FCC PART 15 : 2007 | Section 15.247 (b) | PASS | | |
| Band Edges Measurement | FCC PART 15 : 2007 | Section 15.247 (c) | PASS | | |
| Power Spectral Density Measurement | FCC PART 15 : 2007 | Section 15.247 (d) | PASS | | |



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4 General Information

4.1 Client Information

Applicant Name: Vocentrix(HK)Limited

Applicant Address: Flat5-6,11/F, Harry Ind Bldg,49-51 Au Pui Wat St ,Fotain, Shatin, HK

4.2 General Description of E.U.T.

Product Name: Baby monitor

Model: 08280

Power Supply: 100-240V AC(AC-DC DC OUTPUT 5V DC 1.0A)

Power Cord: DC cord is 2m.

4.3 Description of Support Units

None.

4.4 Standards Applicable for Testing

The customer requested FCC tests for Baby monitor

The standard used was FCC PART 15, SUBPART C (2007) section 15.247.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

4.6 Other Information Requested by the Customer

None.



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4.7 Test Facility

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

NVLAP - Lab Code: 200611-0

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2006.

ACA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.

Date of Registration: June 01, 2005. Valid until February 22, 2008

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FINKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

CNAL - LAB Code: L0141

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01:2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.

FCC - Registration No.: 282399

SGS-CSTC Standards Technical Services 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 our files. Registration 282399, May 31, 2002. With the above and NVLAP, SGS-CSTC is an authorized test laboratory for the DoC process.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.



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5 Test Results

5.1 Test Instruments

| Test Equipment | Manufacturer | Model | Asset No. | Cal. Due Date |
|-----------------------------------|-------------------|---------------------------|-----------|------------------|
| 3m Semi- Anechoic Chamber | Frankonia | 3m method | EMC0501 | 15-02-2008 |
| EMI Test Receiver | Rohde & Schwarz | ESCS30 | EMC0506 | 15-02-2008 |
| Bilog Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 17-01-2008 |
| Coaxial cable | SGS-CSTC | 10m | EMC0514 | 04-11- 2008 |
| Spectrum Analyzer | Rohde& Schwarz | FSP 30 | EMC0521 | 01-04-2008 |
| Horn Antenna | Rohde& Schwarz | HF906 | EMC0517 | 01-04-2008 |
| Temperature, Humidity & Barometer | Oregon Scientific | BA-888 | EMC0003 | 24-07-2008 |
| Peramplifier | Agilent | 8449B | EMC0520 | 30-06-2008 |
| Coaxial cable | SGS | N/A | EMC0514 | 01-06-2008 |
| Shielding Room | Frankonia | 12 x 4 x 4 m ³ | EMC0103 | N/A |
| LISN | Schaffner Chase | MNZ050D11 | 1421 | 04-11-2008 |
| EMI Test Receiver | Rohde& Schwarz | ESCS30 | 100086 | 09-12-2008 |
| Coaxial Cable | SGS | 2m | EMC0107 | 01-06-2008 |

5.2 E.U.T. Operation

Input voltage: Supplied 5V DC

Operating Environment:

Temperature: 24.0 °C Humidity: 52 % RH Atmospheric Pressure: 1008 mbar

EUT Operation: Test the EUT as a product which Direct Sequence Spread Spectrum

. The total channels are 13 channels (1 to 13 channels), the fundamental frequencies are from 2.410GHz to $2.470\,\mathrm{GHz}$.

The test procedure provided by applicant enabled the EUT to transmit and receive data at lowest (**Channel 1: 2.410GHz**), middle (**Channel**

7: 2.440GHz), and highest channel

(Channel 13: 2.470GHz), frequencies individually.

Pre-test all the frequencies mode and their power status, compliance test in the worse case: Channel 13, Channel 7, Channel 1.

FCC ID: VUY1048B



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5.3 Test Result

5.3.1 Conducted Emissions Mains Terminals, 150kHz to 30MHz

Test Requirement: FCC Part15 B
Test Method: ANSI C63.4
Test Date: 2007-12-05

Frequency Range: 150KHz to 30MHz

Class / Severity: Class B

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

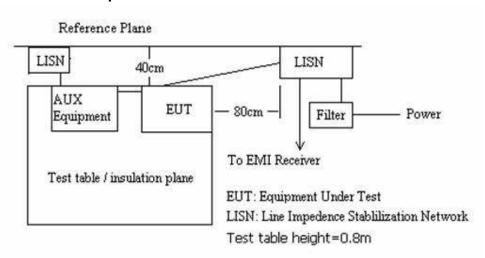
Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

Operating Environment:

Temperature: 26.0 °C Humidity: 73 % RH Atmospheric Pressure: 1005 mbar

EUT Operation: Test the EUT in On Mode.

Plan View of Test Setup



Measurement Data

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

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

The following Quasi-Peak and Average measurements were performed on the EUT on 2007-12-05



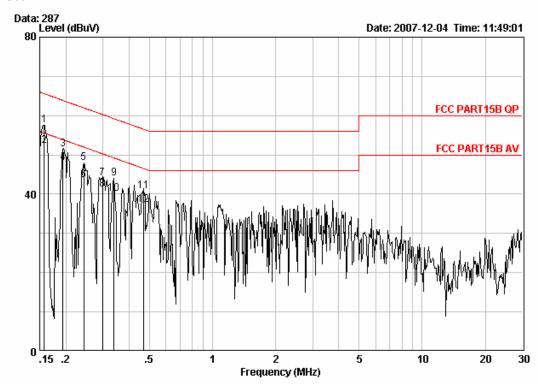
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Quasi-peak and Average measurement:

Live Line:

Peak Scan:



Site : Shielding Room

Condition : FCC PART15B QP CE LINE

| MHz dB dB dBuV dBuV dBuV dBuV dB 1 | EUT : | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|--|--------------------|--|---|---|--|--|--|---|---|
| 2 @ 0.15733 -0.02 -0.05 52.44 52.37 55.60 -3.23 Average 3 0.19344 -0.09 -0.05 51.56 51.43 63.89 -12.46 QP 4 0.19344 -0.09 -0.05 48.17 48.03 53.89 -5.85 Average 5 0.24293 -0.05 -0.04 48.14 48.04 62.00 -13.95 QP 6 0.24293 -0.05 -0.04 43.66 43.56 52.00 -8.43 Average 7 0.29869 0.00 -0.04 44.03 43.98 60.28 -16.30 QP 8 0.29869 0.00 -0.04 41.16 41.11 50.28 -9.16 Average 9 0.33920 0.00 -0.04 44.17 44.12 59.22 -15.10 QP 10 0.33920 0.00 -0.04 40.22 40.18 49.22 -9.05 Average | | MHz | dB | dB | dBu∀ | dBu∀ | dBu∀ | dB | |
| 11 0.47110 0.00 -0.04 40.77 40.73 56.49 -15.77 QP 12 0.47110 0.00 -0.04 37.42 37.38 46.49 -9.12 Average | 8 9 10 11 | 0.15733 0.19344 0.19344 0.24293 0.24293 0.29869 0.29869 0.33920 | -0.02 -0.09 -0.09 -0.05 -0.05 0.00 0.00 | -0.05 -0.05 -0.05 -0.04 -0.04 -0.04 -0.04 | 52.44 51.56 48.17 48.14 43.66 44.03 41.16 44.17 40.22 40.77 | 52.37 51.43 48.03 48.04 43.56 43.98 41.11 44.12 | 55.60 63.89 53.89 62.00 52.00 60.28 50.28 59.22 49.22 56.49 | -3.23 -12.46 -5.85 -13.95 -8.43 -16.30 -9.16 -15.10 -9.05 -15.77 | Áverage QP Áverage QP Áverage QP Áverage QP Áverage QP |

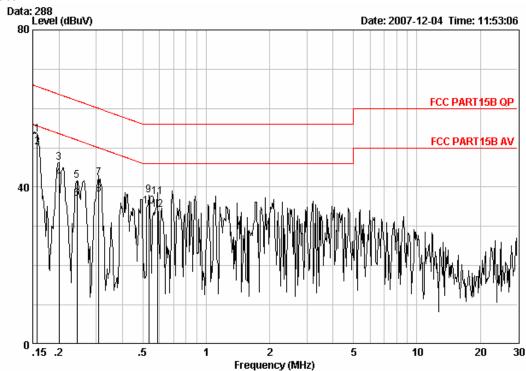


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Quasi-peak and Average measurement: Neutral Line

Peak Scan:



Site : Shielding Room

Condition : FCC PART15B QP CE NEUTRAL

FIIT

| EUI : | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|---|--|--|--|--|--|--|--|---|
| | MHz | dB | $\overline{d}\overline{B}$ | dBu∀ | dBu∀ | dBuV | <u>dB</u> | |
| 1 2 3 4 5 6 7 8 9 10 11 | 0.15733 0.15733 0.19969 0.19969 0.24293 0.24293 0.30834 0.30834 0.53215 0.53215 0.58540 0.58540 | -0.02 -0.02 -0.10 -0.10 -0.05 -0.05 0.00 0.00 0.00 0.00 | -0.05 -0.05 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 | 53.42 50.11 46.38 42.53 41.74 37.17 42.34 38.17 37.98 35.15 37.47 34.18 | 53.36 50.05 46.24 42.39 41.65 37.08 42.30 38.13 37.94 35.11 37.42 34.14 | 55.60 63.62 53.62 62.00 52.00 60.02 50.02 56.00 46.00 56.00 | -17.39 -11.23 -20.35 -14.92 -17.71 -11.88 -18.06 -10.89 -18.58 | Average QP Average QP Average QP Average QP Average |



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5.3.2 Radiated Emissions

Test Requirement: FCC 15.209

Test Method: ANSI C63.4 section 8 & 13

Test Date: 2007-12-05

Measurement Distance: 3m (Semi-Anechoic Chamber)
Frequency range 30 MHz – 25GHz for transmitting mode.

The EUT was setup to ANSI C63.4,2003, tested to DTS test procedure of Oct 2002 KDB558074 for

compliance to FCC 47CFR 15.247 requirements.

Spectrum: 30 MHz - 1000 MHz: RBW=120KHz, VBW=300KHz

above 1GHz Peak RBW=1MHz, VBW=3MHz

Average: RBW=1MHz, VBW=10Hz

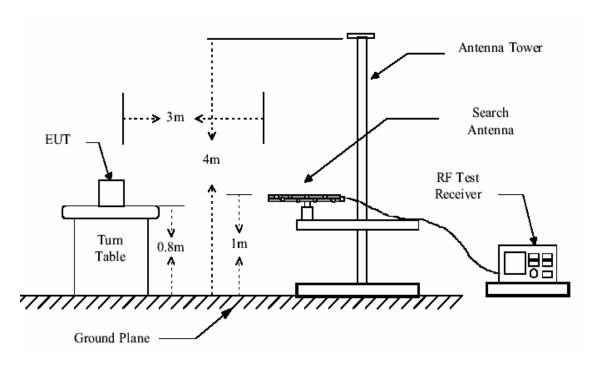
Receive antenna scan height 1 m - 4 m, polarization Vertical / Horizontal

Limit: $40.0 \text{ dB}\mu\text{V/m}$ between 30MHz & 88MHz

 $43.5 \text{ dB}\mu\text{V/m}$ between 88MHz & 216MHz $46.0 \text{ dB}\mu\text{V/m}$ between 216MHz & 960MHz

 $54.0 \text{ dB}\mu\text{V/m}$ zbove 960MHz

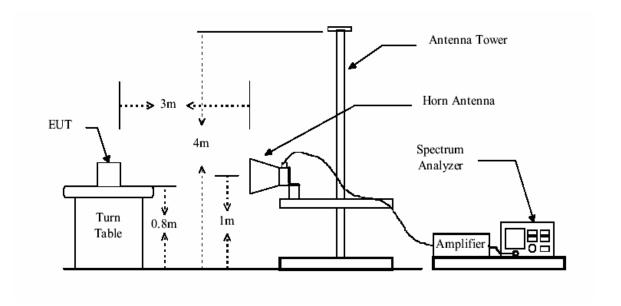
Test Configuration:





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Test Procedure: The procedure uesd was ANSI Standard C63.4-2003. The receive was scanned from 30MHz to 25GHz. When an emission was found, the table was roated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

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

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor – Peramlifer Factor The following test results were performed on the EUT



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5.3.3 Harmonics Emissions

Test mode: perform the test in transmitting status:

Test in Channel 1

Harmonics & Spurious Emissions

Peak Measurement

| Test | Measuring L | evel (dBuV/m) | Limits | Margin (dB) | | |
|--------------------|-------------|---------------|----------|-------------|------------|--|
| Frequency (GHz) | Vertical | Horizontal | (dBuV/m) | Vertical | Horizontal | |
| 2.410 | 106.4 | 103.7 | | | | |
| 4.820 | 50.6 | 52.3 | 74.0 | 23.4 | 21.7 | |
| 7.230 | 50.9 | 53.7 | 74.0 | 23.1 | 20.3 | |
| 9.640 | N/A | N/A | 74.0 | N/A | N/A | |
| 12.050 | N/A | N/A | 74.0 | N/A | N/A | |
| 14.460 | N/A | N/A | 74.0 | N/A | N/A | |
| 16.870 | N/A | N/A | 74.0 | N/A | N/A | |
| 19.280 | N/A | N/A | 74.0 | N/A | N/A | |
| 21.690 | N/A | N/A | 74.0 | N/A | N/A | |
| 24.100 | N/A | N/A | 74.0 | N/A | N/A | |
| | | Average Mea | surement | | | |
| 2.410 | 101.2 | 98.3 | | | | |
| 4.820 | 43.2 | 44.7 | 54.0 | 10.8 | 9.3 | |
| 7.230 | 42.6 | 45.1 | 54.0 | 11.4 | 8.9 | |
| 9.640 | N/A | N/A | 54.0 | N/A | N/A | |
| 12.050 | N/A | N/A | 54.0 | N/A | N/A | |
| 14.460 | N/A | N/A | 54.0 | N/A | N/A | |
| 16.870 | N/A | N/A | 54.0 | N/A | N/A | |
| 19.280 | N/A | N/A | 54.0 | N/A | N/A | |
| 21.690 | N/A | N/A | 54.0 | N/A | N/A | |
| 24.100 | N/A | N/A | 54.0 | N/A | N/A | |

N/A: refer to remark 1).



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Test mode: perform the test in transmitting status: Test the racing wheel in Channel 7.

Harmonics & Spurious Emissions:

Peak Measurement

| Test Frequency (GHz) | Measuring Le Vertical 105.2 | Horizontal | Limits (dBuV/m) | Margi Vertical | in (dB) Horizontal |
|----------------------------|-----------------------------|------------|--------------------|-------------------|-----------------------|
| | 105.2 | | (dBuV/m) | Vertical | Horizontal |
| | | 101.8 | | | Tionzontai |
| 2.440 | | 101.0 | | | |
| 4.880 | 52.1 | 52.9 | 74.0 | 21.9 | 21.1 |
| 7.320 | 51.3 | 49.2 | 74.0 | 22.7 | 24.8 |
| 9.760 | N/A | N/A | 74.0 | N/A | N/A |
| 12.200 | N/A | N/A | 74.0 | N/A | N/A |
| 14.640 | N/A | N/A | 74.0 | N/A | N/A |
| 17.080 | N/A | N/A | 74.0 | N/A | N/A |
| 19.520 | N/A | N/A | 74.0 | N/A | N/A |
| 21.960 | N/A | N/A | 74.0 | N/A | N/A |
| 24.400 | N/A | N/A | 74.0 | N/A | N/A |
| | | Average Me | asurement | | |
| 2.440 | 99.4 | 97.1 | | | |
| 4.880 | 44.6 | 44.9 | 54.0 | 9.4 | 9.1 |
| 7.320 | 43.8 | 42.5 | 54.0 | 10.2 | 11.5 |
| 9.760 | N/A | N/A | 54.0 | N/A | N/A |
| 12.200 | N/A | N/A | 54.0 | N/A | N/A |
| 14.640 | N/A | N/A | 54.0 | N/A | N/A |
| 17.080 | N/A | N/A | 54.0 | N/A | N/A |
| 19.520 | N/A | N/A | 54.0 | N/A | N/A |
| 21.960 | N/A | N/A | 54.0 | N/A | N/A |
| 24.400 | N/A | N/A | 54.0 | N/A | N/A |

N/A: refer to remark 1).



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Test mode: perform the test in transmitting status: Test in Channel 13.

Harmonics & Spurious Emissions:

Peak Measurement

| Peak Measurement | | | | | | | |
|--------------------|--------------|---------------|-----------|-------------|------------|--|--|
| Test | Measuring Le | evel (dBuV/m) | Limits | Margin (dB) | | | |
| Frequency (GHz) | Vertical | Horizontal | (dBuV/m) | Vertical | Horizontal | | |
| 2.470 | 104.7 | 99.8 | | | | | |
| 4.940 | 52.2 | 53.6 | 74.0 | 21.8 | 20.4 | | |
| 7.410 | 51.7 | 53.9 | 74.0 | 22.3 | 20.1 | | |
| 9.880 | N/A | N/A | 74.0 | N/A | N/A | | |
| 12.350 | N/A | N/A | 74.0 | N/A | N/A | | |
| 14.820 | N/A | N/A | 74.0 | N/A | N/A | | |
| 17.290 | N/A | N/A | 74.0 | N/A | N/A | | |
| 19.760 | N/A | N/A | 74.0 | N/A | N/A | | |
| 22.230 | N/A | N/A | 74.0 | N/A | N/A | | |
| 24.700 | N/A | N/A | 74.0 | N/A | N/A | | |
| | | Average Me | asurement | | | | |
| 2.470 | 97.3 | 92.8 | | | | | |
| 4.940 | 45.0 | 45.3 | 54.0 | 9.0 | 8.7 | | |
| 7.410 | 44.2 | 45.9 | 54.0 | 9.8 | 8.1 | | |
| 9.880 | N/A | N/A | 54.0 | N/A | N/A | | |
| 12.350 | N/A | N/A | 54.0 | N/A | N/A | | |
| 14.820 | N/A | N/A | 54.0 | N/A | N/A | | |
| 17.290 | N/A | N/A | 54.0 | N/A | N/A | | |
| 19.760 | N/A | N/A | 54.0 | N/A | N/A | | |
| 22.230 | N/A | N/A | 54.0 | N/A | N/A | | |
| 24.700 | N/A | N/A | 54.0 | N/A | N/A | | |

N/A: refer to remark 1).



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Remark:

- 1). N/A: For this intentional radiator operates below 10 GHz, the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the fifth harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5th harmonic.
- 2). According to 15.247 (d) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits.
- The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.

TEST RESULTS: The unit does meet the FCC requirements.



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5.3.4 Other Emissions.

Test Requirement: FCC Part15 Section 15.209
Test Method: Based on FCC Part15 B

Measurement Distance: 3m

Limit: $40.0 \text{ dB}\mu\text{V/m}$ between 30MHz & 88MHz

 $43.5~dB\mu V/m$ between 88MHz~&~216MHz $46.0~dB\mu V/m$ between 216MHz~&~960MHz

54.0 dBµV/m above 960MHz

Procedure: The EUT was setup to ANSI C63.4,2003, tested to DTS test procedure of

Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247

requirements.

Spectrum: 30 MHz - 1000 MHz: RBW=120KHz, VBW=300KHz

above 1GHz Peak RBW=1MHz, VBW=3MHz

Average: RBW=1MHz, VBW=10Hz

Quasi-Peak if maximised peak within 6dB of limit

All the test modes(including with **transmitting mode and receiving mode**), the test data only was shown for the worsted case mode:

The following measurement result were performed on the EUT:

| Frequency (Hz) | Antenna Polarization | Emission Level (dBuV/m) | Limit dBuV/m) | Margin (dB) |
|-------------------|-------------------------|-------------------------|------------------|----------------|
| 222.06 | Vertical | 35.86 | 46 | 10.14 |
| 249.22 | Vertical | 43.77 | 46 | 2.23 |
| 328.00 | Vertical | 43.95 | 46 | 2.05 |
| 601.33 | Vertical | 33.17 | 46 | 12.83 |
| 824.43 | Vertical | 38.95 | 46 | 7.05 |
| 222.06 | Horizontal | 33.76 | 46 | 12.24 |
| 249.22 | Horizontal | 40.58 | 46 | 5.42 |
| 328.00 | Horizontal | 42.33 | 46 | 3.67 |
| 601.33 | Horizontal | 34.57 | 46 | 11.43 |
| 824.43 | Horizontal | 41.04 | 46 | 4.96 |

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

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Peramlifer Factor

TEST RESULTS: The unit does meet the FCC requirements



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5.3.5 Maximum Peak Output Power

Test Requirement: FCC Part15 C

Test Method: Base on ANSI 63.4.

Test Date: 2007-12-5

Requirements: Regulation 15.247 (b) The Limit of Maximum Peak Output Power

Measurement is 1W (30dBm).

Test mode: Compliance test in the worse case: Channel 1, Channel 7, Channel

13.

Test Procedure: The EUT was setup to ANSI C63.4,2003, tested to DTS test

procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR

15.247 requirements.

Spectrum: RBW=3MHz, VBW=3MHz

Test Result:

| Test Channel | Fundamental Frequency (GHz) | Output Power (dBm) | Limit (dBm) | PASS/FAIL |
|-----------------|--------------------------------|-----------------------|----------------|-----------|
| 1 | 2.410 | 9.8 | 30.0 | Pass |
| 7 | 2.440 | 7.5 | 30.0 | Pass |
| 13 | 2.470 | 6.2 | 30.0 | Pass |

Remark: The manufacturer for the cable loss is 2 dB.

TEST RESULTS: The unit does meet the FCC requirements.



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5.3.6 Occupied Bandwidth

Test Requirement: FCC Part 15 C

Test Method: Based on FCC Part15 C Section 15.247:

Test Date: 2007-12-5

Requirements: Regulation 15.247 (b) (2) Systems using digital modulation

techniques may operate in the 2400 - 2483.5 MHz band. The

minimum 6 dB bandwidth shall be at least 500 kHz.

The EUT was setup to ANSI C63.4,2003, tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC

47CFR 15.247 requirements.

Test Procedure: The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100KHz RBW and 300 KHz VBW. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test result:

| Test Channel | 6 dB bandwidth(KHz) | LIMIT(KHz) | PASS/FAIL |
|--------------|---------------------|------------|-----------|
| 1 | 1593 | 500 | Pass |
| 7 | 1611 | 500 | Pass |
| 13 | 1611 | 500 | Pass |

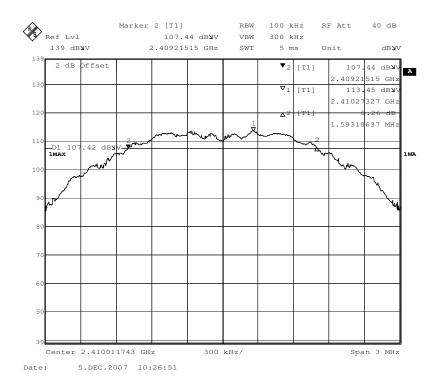
The unit does meet the FCC requirements. Please refer the graph as below:

1. Channel 1: 6dB Bandwidth



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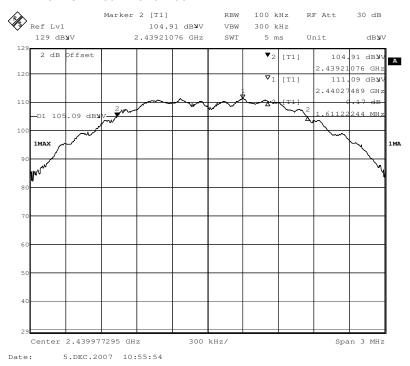




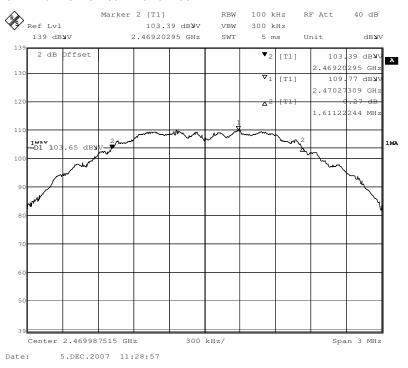
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2. Channel 7: 6dB Bandwidth



3. Channel 13: 6dB Bandwidth



The unit does meet the FCC requirements.

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5.3.7 Band Edges Requirement

Test Requirement: FCC Part 15 C

Test Method: Based on FCC Part15 C Section 15.247:

KDB Publication No. 558074 Public Notice DA 00-705 for DSS.

Operation within the band 2400 - 2483.5 MHz

Test Date: 2007-12-5

Procedure: The EUT was setup to ANSI C63.4,2003, tested to DTS test procedure of Oct

2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Spectrum: Peak RBW=100KHz, VBW=100KHz Average: RBW=1MHz, VBW=10Hz

Requirements: Section 15.247 (d) In any 100 kHz bandwidth outside the frequency band in

which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of

the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

The graph as below, represents the emissions take for this device.

NOTE 1: The band edge emission plot on page 22 shows 52.7dBc between carrier maximum power and local maximum emission in restrict band (2.390GHz). The emission of carrier strength list in the test result of channel 1 at the item 5.3.3 is 106.4dBuV/m (Peak), so the maximum field strength in restrict band is 106.4- 52.7=53.7dBuV/m which is under 74dBuV/m limit.

The band edge emission plot of on page 23 shows 57.43dBc between carrier maximum power and local maximum emission in restrict band (2.390GHz). The emission of carrier strength list in the test result of channel 1 at the item 5.3.3 is 101.2dBuV/m (Average), so the maximum field strength in restrict band is 101.2- 57.43=43.77dBuV/m which is under 54dBuV/m limit.

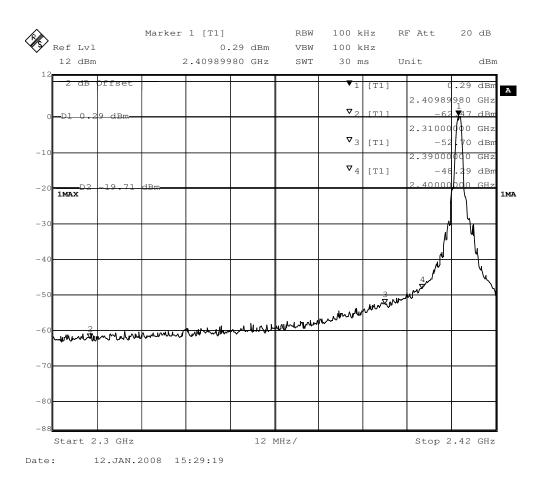
NOTE 2: The band edge emission plot on page 25 shows 56.02dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 13 at the item 5.3.3 is 104.7dBuV/m (Peak), so the maximum field strength in restrict band is 104.7-56.02=50.68dBuV/m which is under 74dBuV/m limit.

The band edge emission plot on page 26 shows 66.74dBc between carrier maximum power and local maximum emission in restrict band (2.4835GHz). The emission of carrier strength list in the test result of channel 13 at the item 5.3.3 is 97.3dBuV/m (Average), so the maximum field strength in restrict band is 97.3-66.74=30.56dBuV/m which is under 54dBuV/m limit.



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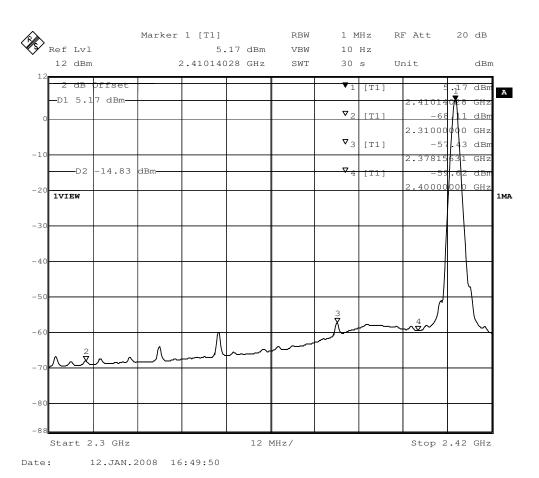
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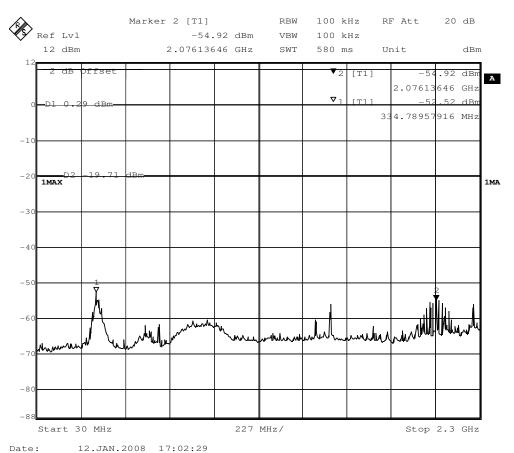
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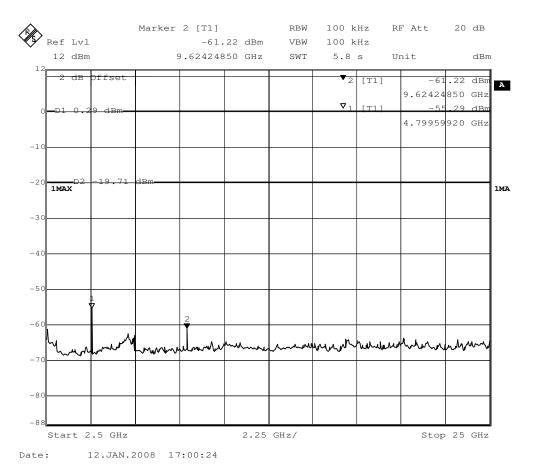
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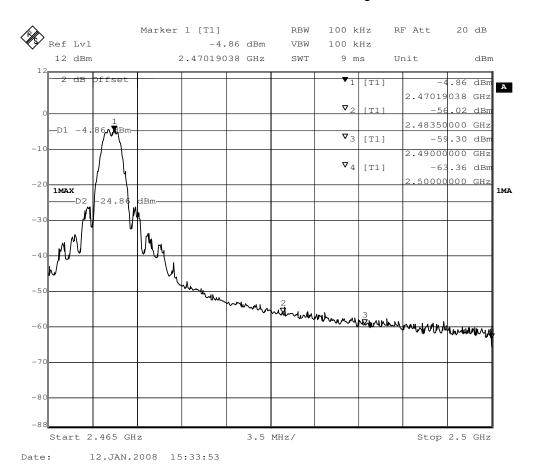
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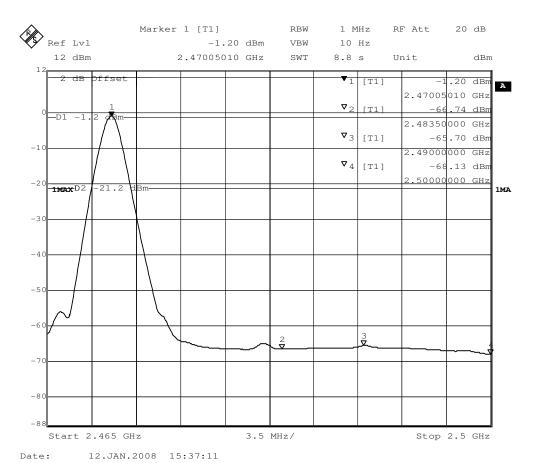
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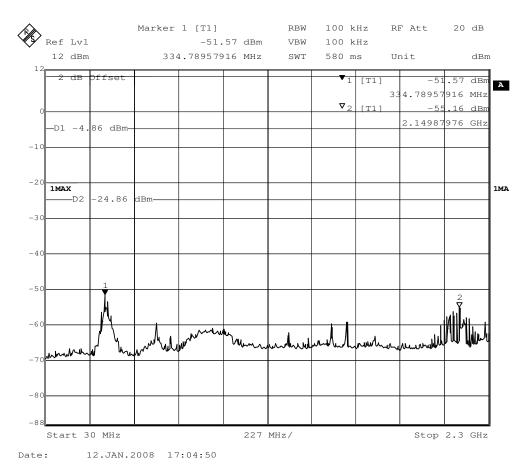
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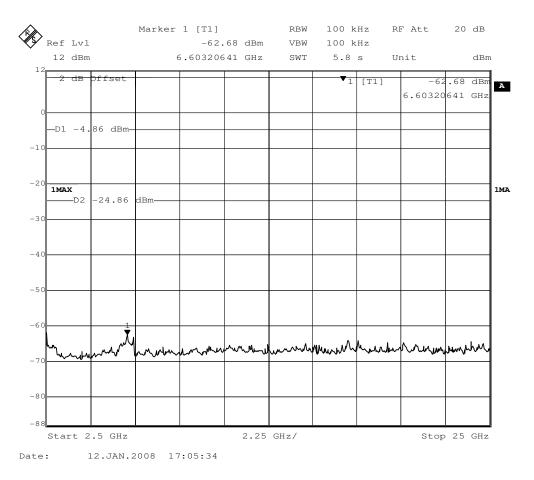
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The unit does meet the FCC requirements.



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Section 15.205 Restricted bands of operation.

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|----------------------------|-----------------------|-----------------|------------------|
| 0.090 - 0.110 | 16.42 - 16.423 | 399.9 - 410 | 4.5 - 5.15 |
| ¹ 0.495 - 0.505 | 16.69475 - 16.69525 | 608 - 614 | 5.35 - 5.46 |
| 2.1735 - 2.1905 | 16.80425 - 16.80475 | 960 - 1240 | 7.25 - 7.75 |
| 4.125 - 4.128 | 25.5 - 25.67 | 1300 - 1427 | 8.025 - 8.5 |
| 4.17725 - 4.17775 | 37.5 - 38.25 | 1435 - 1626.5 | 9.0 - 9.2 |
| 4.20725 - 4.20775 | 73 - 74.6 | 1645.5 - 1646.5 | 9.3 - 9.5 |
| 6.215 - 6.218 | 74.8 - 75.2 | 1660 - 1710 | 10.6 - 12.7 |
| 6.26775 - 6.26825 | 108 - 121.94 | 1718.8 - 1722.2 | 13.25 - 13.4 |
| 6.31175 - 6.31225 | 123 - 138 | 2200 - 2300 | 14.47 - 14.5 |
| 8.291 - 8.294 | 149.9 - 150.05 | 2310 - 2390 | 15.35 - 16.2 |
| 8.362 - 8.366 | 156.52475 - 156.52525 | 2483.5 - 2500 | 17.7 - 21.4 |
| 8.37625 - 8.38675 | 156.7 - 156.9 | 2655 - 2900 | 22.01 - 23.12 |
| 8.41425 - 8.41475 | 162.0125 - 167.17 | 3260 - 3267 | 23.6 - 24.0 |
| 12.29 - 12.293 | 167.72 - 173.2 | 3332 - 3339 | 31.2 - 31.8 |
| 12.51975 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |



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5.3.8 Power Spectral Density

Test Requirement: FCC Part15 C

Test Method: Base on ANSI 63.4..

Test Date: 2007-12-5

Regulation 15.247 (d) For direct sequence systems, the peak

power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during

any time interval of continuous transmission.

Test Procedures:

The tests below are running with the EUT transmitter set at high power mode. The EUT is needed to force selection of output power level and channel number. While testing, EUT was set to transmit continuously. A horn antenna was connected with the spectrum analyzer.

The EUT was set transmitting continuously and force selection of output power level and channel number. We'd observed that the peak levels aren't greater than +8dBm limit.

The EUT was setup to ANSI C63.4,2003, tested to DTS test procedure of Oct 2002 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Spectrum: RBW=3KHz, VBW=10KHz Sweep time=200S

Test Result:

| 10011200411 | | | | |
|-----------------|--------------------------|------------------------------------|------------------|---------------|
| Test Channel | Fundamental Frequency | RF POWER LEVEL IN 3 KHz BW (dBm) | MAXIMUM Limit | PASS/ FAIL |
| | (GHz) | , | (dBm) | |
| 1 | 2.410 | -6.2 | 8.0 | Pass |
| 7 | 2.440 | -5.8 | 8.0 | Pass |
| 13 | 2.470 | -6.5 | 8.0 | Pass |

The EUT meets the requirements of this section.

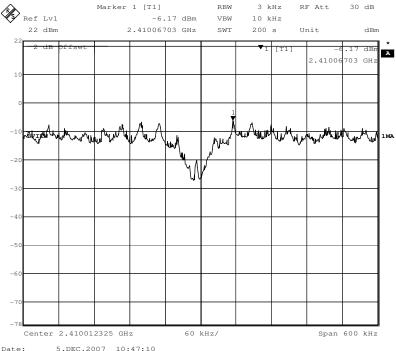
Please refer to graph as below:



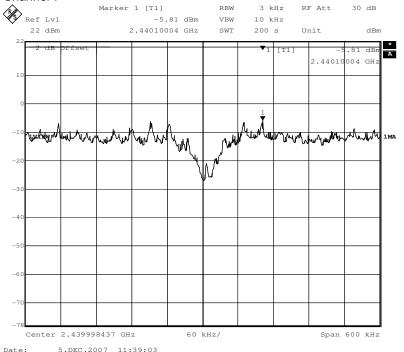
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Channel 7



FCC ID: VUY1048B

Date:

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