

No. 1 Workshop, M-10, Middle Section, Science & Technology Park,

District Shenzhen, China 518057 +86 (0) 755 2601 2053 Telephone: +86 (0) 755 2671 0594 Fax:

Email: sgs internet operations@sgs.com Report No.: SZEMO09080483601

FEDERAL COMMUNICATIONS COMMISSION Page: 1 of 22

Registration number: 556682

TEST REPORT

SZEMO090804836TX Application No.:

Applicant: Zoozen Ltd

Manufacturer: SHENZHEN HAIS ELECTONIC CO., LTD.

FCC ID: XSFPS33032

Fundamental Carrier Frequency: 2.410GHz to 2.470GHz

Equipment Under Test (EUT):

PS3 Controller Name: Model: HS-P-3032

FCC PART 15: 2008 Standards: Date of Receipt: 17 August 2009

Date of Test: 17 August to 08 September 2009

Date of Issue: 10 September 2009

Test Result: PASS *

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

Authorized Signature:

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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2 Test Summary

| Test | Test Requirement | Standard Paragraph | Result |
|---|--------------------|---|--------|
| Conducted Emission | FCC PART 15 : 2008 | Section 15.207 | PASS |
| Flied Strength of Fundamental | FCC PART 15 : 2008 | Section 15.249 (a) | PASS |
| Flied Strength of Harmonics or other Frequency Emission | FCC PART 15 : 2008 | Section 15.249 (a) Section 15.209/15.205 | PASS |
| Occupied Bandwidth | FCC PART 15 : 2008 | Section 15.249 | PASS |



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4 General Information

4.1 Client Information

Applicant Name: Zoozen Ltd

Manufacturer: SHENZHEN HAIS ELECTRONIC CO., LTD

Applicant Address: Unit 811 Cyberport RD Pok Fu Lam

Manufacturer Address: 14 Building, Chen Tian Industrial Zone, BaoMin 2/R, Bao'an, ShenZhen,

China

4.2 General Description of E.U.T

Product Name: PS3 Controller Model: HS-P-3032

Operation Frequency: 2410MHz to 2470MHz

Channel Number: 61
Modulation Type: GFSK

Power Supply: Input: 2X1.5(AA)=3.0V

Power Cord: N/A-

4.3 Description of Support Units

The EUT was tested as an independent unit.

4.4 Standards Applicable for Testing

The customer requested FCC tests for a 2.4G wireless product

The standard used was FCC PART 15, SUBPART C (2008) section 15.249.

4.5 Test Location

All tests were performed at:

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, District Shenzhen, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber and Shielded Room (7.5m \times 4.0m \times 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197 and C-2383 respectively.

Date of Registration: September 29, 2008. Valid until September 28, 2011.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 556682, June 27, 2008.

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.: 4620C-1.



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5 Test Results

5.1 Test Instruments

| | RE in Chamber | | | | | | | | |
|------|-----------------------------------|-------------------------|-----------------------------|------------------|------------------------|----------------------------|--|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) | | | |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 16-06-2009 | 15-06-2010 | | | |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | SEL0023 | 12-12-2008 | 11-12-2009 | | | |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A | N/A | | | |
| 4 | Coaxial cable | SGS | N/A | SEL0028 | 18-06-2009 | 17-06-2010 | | | |
| 5 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEL0014 | 12-08-2009 | 11-08-2010 | | | |
| 6 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEL0053 | 18-06-2009 | 17-06-2010 | | | |
| 7 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEL0005 | 12-08-2009 | 11-08-2010 | | | |
| 8 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEL0076 | 12-08-2009 | 11-08-2010 | | | |
| 9 | Pre-amplifier (1-18GHz) | Rohde & Schwarz | AFS42-00101 800-25-S-42 | SEL0081 | 18-06-2009 | 17-06-2010 | | | |
| 10 | Pre-amplifier (18-26GHz) | Rohde & Schwarz | AFS33-18002 650-30-8P-44 | SEL0080 | 18-06-2009 | 17-06-2010 | | | |
| 11 | Band filter | Amindeon | 82346 | SEL0094 | 18-06-2009 | 17-06-2010 | | | |
| 12 | Active Loop Antenna | Beijing Daze | ZN30900A | SEL0097 | 15-06-2009 | 14-06-2010 | | | |

| | Conducted Emission | | | | | | | |
|------|----------------------|------------------------------------|-----------------|------------------|------------------------|----------------------------|--|--|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Date (dd-mm-yy) | Cal.Due date (dd-mm-yy) | | |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEL0042 | N/A | N/A | | |
| 2 | LISN | ETS-LINDGREN | 3816/2 | SEL0021 | 18-06-2009 | 17-06-2010 | | |
| 3 | 8 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T8-02 | EMC0120 | 21-02-2009 | 21-02-2010 | | |
| 4 | 4 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T4-02 | EMC0121 | 21-02-2009 | 21-02-2010 | | |
| 5 | 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T2-02 | EMC0122 | 21-02-2009 | 21-02-2010 | | |
| 6 | EMI Test Receiver | Rohde & Schwarz | ESCI | SEL0022 | 18-06-2009 | 17-06-2010 | | |
| 7 | Coaxial Cable | SGS | N/A | SEL0024 | 18-06-2009 | 17-06-2010 | | |



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5.2 Test environment and Test modes

Operating Environment:

Temperature: 24°C Humidity: 50 % RH Atmospheric Pressure: 1010 mbar

Test modes:

Operation mode: Keep the EUT connect to PS3 primary and exchange data.

PS3 primary charge mode: Primary charge to remote by USB cable (no transmit)

PC charge mode: PC charge to remote by USB cable (no transmit)

Verify the Frequency and Channel

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| 1 | 2410 | 17 | 2426 | 33 | 2442 | 49 | 2458 |
| 2 | 2411 | 18 | 2427 | 34 | 2443 | 50 | 2459 |
| 3 | 2412 | 19 | 2428 | 35 | 2444 | 51 | 2460 |
| 4 | 2413 | 20 | 2429 | 36 | 2445 | 52 | 2461 |
| 5 | 2414 | 21 | 2430 | 37 | 2446 | 53 | 2462 |
| 6 | 2415 | 22 | 2431 | 38 | 2447 | 54 | 2463 |
| 7 | 2416 | 23 | 2432 | 39 | 2448 | 55 | 2464 |
| 8 | 2417 | 24 | 2433 | 40 | 2449 | 56 | 2465 |
| 9 | 2418 | 25 | 2434 | 41 | 2450 | 57 | 2466 |
| 10 | 2419 | 26 | 2435 | 42 | 2451 | 58 | 2467 |
| 11 | 2420 | 27 | 2436 | 43 | 2452 | 59 | 2468 |
| 12 | 2421 | 28 | 2437 | 44 | 2453 | 60 | 2469 |
| 13 | 2422 | 29 | 2438 | 45 | 2454 | 61 | 2470 |
| 14 | 2423 | 30 | 2439 | 46 | 2455 | | |
| 15 | 2424 | 31 | 2440 | 47 | 2456 | | |
| 16 | 2425 | 32 | 2441 | 48 | 2457 | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|---------------------|-----------|
| The lowest channel | 2410MHz |
| The middle channel | 2440MHz |
| The Highest channel | 2470MHz |



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5.3 Test Procedure & Measurement Data

5.3.1 Conducted Emissions

Test Requirement: FCC Part 15.207
Test Method: ANSI C63.4: 2003
Frequency Range: 150KHz to 30MHz

Class / Severity: Class B

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

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

Test status: PS3 primary charge mode and PC charge mode

5.3.1.1 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. For EUT communicating with worst case mode.

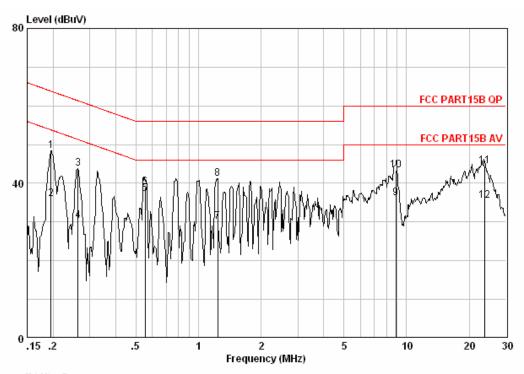


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The following Quasi-Peak and Average measurements were performed on the EUT: PS3 primary charge mode:

Live line:



Site : Shielding Room

Condition: FCC PART15B QP CE LINE

EUT : PS3 Job No. : 4836TX

MODE : PS3 primary charge mode

| MODE | : PS3 | primary c | harge mode | | | | | | | |
|------|-------|-----------|------------|-------|--------|-------|-------|-------|--------|---------|
| | | | | Cable | LISN | Read | | Limit | Over | |
| | | | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | | |
| | | | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| | | | | | | | | | | |
| 1 | 9 | | 0.19550 | 0.04 | -0.05 | 48.42 | 48.41 | 63.80 | -15.39 | QP |
| 2 | @ | | 0.19550 | 0.04 | -0.05 | 35.90 | 35.89 | 53.80 | -17.91 | Average |
| 3 | 0 | | 0.26303 | 0.05 | -0.04 | 43.84 | 43.85 | 61.34 | -17.49 | QP |
| 4 | @ | | 0.26303 | 0.05 | -0.04 | 30.20 | 30.20 | 51.34 | -21.13 | Average |
| 5 | 0 | | 0.55440 | 0.06 | -0.04 | 37.30 | 37.32 | 46.00 | -8.68 | Average |
| 6 | 0 | | 0.55440 | 0.06 | -0.04 | 39.00 | 39.02 | 56.00 | -16.98 | QP |
| 7 | 0 | | 1.236 | 0.09 | -0.05 | 30.10 | 30.14 | 46.00 | -15.86 | Average |
| 8 | 0 | | 1.236 | 0.09 | -0.05 | 41.17 | 41.21 | 56.00 | -14.79 | QP |
| 9 | 0 | | 8.893 | 0.21 | -0.24 | 36.30 | 36.27 | 50.00 | -13.73 | Average |
| 10 | @ | | 8.893 | 0.21 | -0.24 | 43.50 | 43.47 | 60.00 | -16.53 | QP |
| 11 | @ | | 23.670 | 0.28 | -0.73 | 44.90 | 44.45 | 60.00 | -15.55 | QP |
| 12 | @ | | 23.670 | 0.28 | -0.73 | 35.90 | 35.45 | 50.00 | -14.55 | Average |

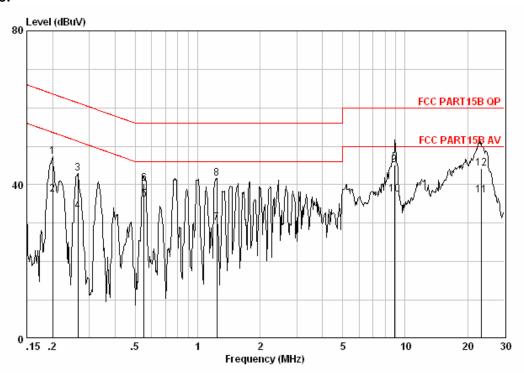
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Neutral line:



Site : Shielding Room

Condition : FCC PART15B QP CE NEUTRAL

EUT : PS3 Job No. : 4836TX

MODE : PS3 primary charge mode

| MODE | | . rss pinnary c | Freq | Cable Loss | LISN Factor —dB | Read Level ——————————————————————————————————— | Level dBuV | Limit Line dBuV | Over Limit | Remark |
|------|---|-----------------|---------|---------------|-----------------------|--|---------------|-----------------------|---------------|---------|
| | | | | | | | | | | |
| 1 | 0 | | 0.19969 | 0.04 | -0.04 | 47.27 | 47.27 | 63.62 | -16.36 | QP |
| 2 | 0 | | 0.19969 | 0.04 | -0.04 | 37.50 | 37.50 | 53.62 | -16.12 | Average |
| 3 | 0 | | 0.26442 | 0.05 | -0.04 | 42.92 | 42.92 | 61.29 | -18.37 | QP |
| 4 | 0 | | 0.26442 | 0.05 | -0.04 | 33.20 | 33.21 | 51.29 | -18.08 | Average |
| 5 | 0 | | 0.55020 | 0.06 | -0.04 | 36.10 | 36.12 | 46.00 | -9.88 | Average |
| 6 | 0 | | 0.55020 | 0.06 | -0.04 | 40.20 | 40.22 | 56.00 | -15.78 | QP |
| 7 | 0 | | 1.236 | 0.09 | -0.05 | 30.10 | 30.14 | 46.00 | -15.86 | Average |
| 8 | 0 | | 1.236 | 0.09 | -0.05 | 41.66 | 41.71 | 56.00 | -14.29 | QP |
| 9 | 0 | | 8.871 | 0.21 | -0.27 | 45.10 | 45.04 | 60.00 | -14.96 | QP |
| 10 | 0 | | 8.871 | 0.21 | -0.27 | 37.60 | 37.54 | 50.00 | -12.46 | Average |
| 11 | 0 | | 23.350 | 0.28 | -0.92 | 38.00 | 37.36 | 50.00 | -12.64 | Average |
| 12 | 9 | | 23.350 | 0.28 | -0.92 | 44.80 | 44.16 | 60.00 | -15.84 | QP |

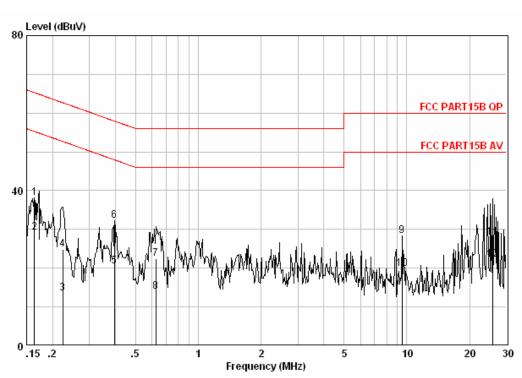


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PC charge mode:

Live line:



Site : Shielding Room

Condition : FCC PART1SB QP CE LINE

EUT : PS3 Job No. : 4836TX

MODE : PC CHARGE MODE

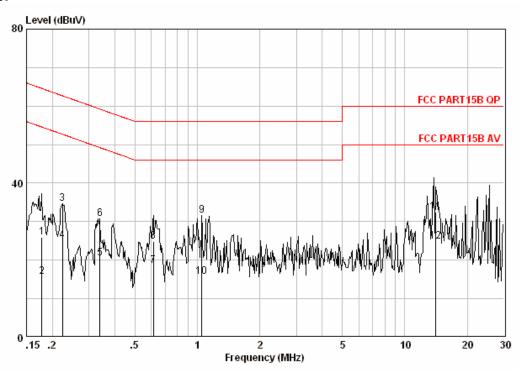
| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|----------|--------------------|---------------|----------------|----------------|----------------|---------------|------------------|---------------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 2 | 0.16327 0.16327 | 0.04 | -0.05 -0.05 | 38.23 29.20 | 38.22 29.19 | | -27.07 -26.11 | QP Average |
| 3 4 | 0.22319 | 0.04 | -0.04 -0.04 | 13.60 | 13.60 | 52.70 | | Average |
| 5 6 @ | 0.39553 | 0.06 | -0.04 | 20.50 | 20.51 | 47.95 | | Average |
| 7 | 0.62383 0.62383 | 0.06 | -0.05 -0.05 | 22.40 13.90 | 22.41 | 56.00 | -33.59 | |
| 9 10 | 9.502 9.502 | 0.22 | -0.27 -0.27 | 28.46 19.80 | 28.41 | 60.00 | -31.59 | _ |
| 11 12 | 25.727 25.727 | 0.29 | -0.79 -0.79 | 28.50 | 28.00 | 60.00 | -32.00 | _ |



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Neutral line:



Site : Shielding Room

Condition : FCC PART15B QP CE NEUTRAL

EUT : PS3 Job No. : 4836TX

MODE : PC CHARGE MODE

| MODE | . Pe chakez | Freq MHz | Cable Loss dB | LISN Factor dB | Read Level dBuV | Level dBuV | Limit Line dBuV | Over Limit | Remark |
|---------------------------------|-------------|---|--|--|---|---|---|--------------------------------------|-------------------------------------|
| 1 2 3 4 5 6 7 | | 0.17800 0.17800 0.22319 0.22319 0.33920 0.33920 0.61420 | 0.04 0.04 0.04 0.04 0.05 0.05 | -0.04 -0.04 -0.04 -0.04 -0.04 -0.04 | 25.90 15.80 34.69 25.10 20.50 30.78 18.60 | 25.90 15.80 34.69 25.10 20.51 30.79 18.62 | 54.58 62.70 52.70 49.22 59.22 | -28.01 -27.60 -28.71 -28.43 | Average QP Average Average |
| 8 9 10 11 12 | @ @ | 0.61420 1.049 1.049 14.010 14.010 | 0.06 0.08 0.08 0.24 0.24 | -0.04 -0.05 -0.05 -0.43 -0.43 | 24.90 31.62 15.70 32.70 25.10 | 24.92 31.66 15.74 32.51 24.91 | 56.00 46.00 60.00 | -27.49 | QP Average |

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5.3.2 Radiated Emissions

5.3.2.1 Test in transmitting mode

Test Requirement: FCC Part15.249,15.209 and 15.205

Test Method: ANSI C63.4:2003

Measurement Distance: 3m (Semi-Anechoic Chamber)

Frequency range 30 MHz – 25GHz Test instrumentation resolution bandwidth

| Frequency Range | Detector | RBW/VBW | Remark |
|-----------------------------|----------|---------------|---------------|
| 30MHz to 1000MHz Quasi-Peak | | 120KHz/300KHz | Quasi-Peak |
| | Peak | 1MHz/3MHz | Peak value |
| 1GHz to 25GHz | Peak | 1MHz/10Hz | Average value |

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

| Fundamental Frequency | Field Strength of Fundamental | Field Strength of Harmonics and Spurious Emissions |
|-----------------------|----------------------------------|--|
| (MHz) | (dBuV/m @ 3m) | (dBuV/m @ 3m) |
| 902 to 928 | 94.0 | 54.0 |
| 2400 to 2483.5 | 94.0 | 54.0 |
| 5725 to 5875 | 94.0 | 54.0 |
| 24000 to 24250 | 108.0 | 68.0 |

The fundamental frequency of the EUT is 2.410GHz to 2.470GHz

The limit for average field strength dBuv/m for the fundamental frequency = 94.0 dBµV/m.

No fundamental is allowed in the restricted bands.

Test Procedure:

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7 The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

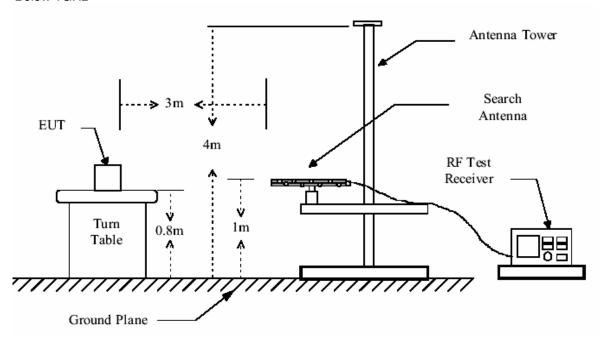


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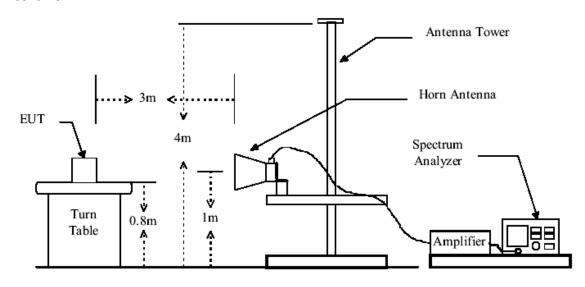
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Test Configuration:

Below 1GHz



Above 1GHz





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

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

The following test results were performed on the EUT:

1. The following test results were performed at 30MHz—1GHz

Operation mode:

Vertical:

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |
|-----------------|--------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|--------------------|
| 31.940 | 0.60 | 14.43 | 28.17 | 45.79 | 32.65 | 40.00 | -7.35 |
| 48.430 | 0.77 | 8.47 | 28.11 | 46.91 | 28.04 | 40.00 | -11.96 |
| 94.020 | 1.14 | 8.87 | 27.92 | 51.51 | 33.60 | 43.50 | -9.90 |
| 160.950 | 1.34 | 9.59 | 27.38 | 52.97 | 36.52 | 43.50 | -6.98 |
| 330.700 | 2.00 | 14.95 | 26.95 | 38.43 | 28.43 | 46.00 | -17.57 |
| 431.580 | 2.33 | 16.52 | 27.51 | 38.92 | 30.26 | 46.00 | -15.74 |

Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |
|-----------------|--------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|--------------------|
| 106.630 | 1.22 | 8.77 | 27.81 | 48.08 | 30.26 | 43.50 | -13.24 |
| 156.100 | 1.33 | 9.39 | 27.41 | 52.27 | 35.58 | 43.50 | -7.92 |
| 214.300 | 1.49 | 10.93 | 27.08 | 47.60 | 32.94 | 43.50 | -10.56 |
| 288.020 | 1.85 | 13.40 | 26.76 | 43.79 | 32.28 | 46.00 | -13.72 |
| 311.300 | 1.94 | 14.33 | 26.81 | 43.27 | 32.73 | 46.00 | -13.27 |
| 431.580 | 2.33 | 16.52 | 27.51 | 41.00 | 32.34 | 46.00 | -13.66 |



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PS3 primary charge mode

Vertical:

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |
|--------------------|--------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|--------------------|
| 59.100 | 0.80 | 7.27 | 28.06 | 47.30 | 27.31 | 40.00 | -12.69 |
| 94.020 | 1.14 | 8.87 | 27.92 | 49.64 | 31.73 | 43.50 | -11.77 |
| 162.420 | 1.34 | 9.58 | 27.37 | 53.00 | 36.55 | 43.50 | -6.95 |
| 180.350 | 1.37 | 9.91 | 27.26 | 49.10 | 33.12 | 43.50 | -10.38 |
| 326.820 | 1.99 | 14.86 | 26.93 | 37.75 | 27.67 | 46.00 | -18.33 |
| 431.580 | 2.33 | 16.52 | 27.51 | 38.99 | 30.33 | 46.00 | -15.67 |

Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |
|-----------------|--------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|--------------------|
| 59.100 | 0.80 | 7.31 | 28.06 | 43.75 | 23.80 | 40.00 | -16.20 |
| 94.020 | 1.14 | 8.87 | 27.92 | 44.11 | 26.20 | 43.50 | -17.30 |
| 118.270 | 1.25 | 8.02 | 27.70 | 51.44 | 33.01 | 43.50 | -10.49 |
| 160.221 | 1.34 | 9.59 | 27.38 | 52.50 | 36.05 | 43.50 | -7.45 |
| 250.190 | 1.68 | 12.30 | 26.91 | 45.94 | 33.01 | 46.00 | -12.99 |
| 431.580 | 2.33 | 16.52 | 27.51 | 39.67 | 31.01 | 46.00 | -14.99 |

PC charge mode

Vertical:

| v Ortiour. | | | | | | | |
|--------------------|--------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|--------------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |
| 47.460 | 0.75 | 8.72 | 28.11 | 43.47 | 24.83 | 40.00 | -15.17 |
| 63.950 | 0.80 | 7.07 | 28.03 | 49.93 | 29.77 | 40.00 | -10.23 |
| 132.002 | 1.28 | 7.78 | 27.59 | 55.00 | 36.47 | 43.50 | -7.03 |
| 238.550 | 1.62 | 11.93 | 26.96 | 41.96 | 28.55 | 46.00 | -17.45 |
| 431.580 | 2.33 | 16.52 | 27.51 | 35.97 | 27.31 | 46.00 | -18.69 |
| 797.270 | 3.19 | 22.09 | 26.95 | 42.24 | 40.57 | 46.00 | -5.43 |

Horizontal

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) |
|-----------------|--------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|--------------------|
| 118.270 | 1.25 | 8.02 | 27.70 | 52.30 | 33.87 | 43.50 | -9.63 |
| 129.910 | 1.28 | 7.70 | 27.61 | 51.58 | 32.95 | 43.50 | -10.55 |
| 153.190 | 1.32 | 9.18 | 27.43 | 48.95 | 32.02 | 43.50 | -11.48 |
| 179.380 | 1.37 | 9.87 | 27.26 | 47.47 | 31.45 | 43.50 | -12.05 |
| 238.550 | 1.62 | 11.93 | 26.96 | 45.59 | 32.18 | 46.00 | -13.82 |
| 431.580 | 2.33 | 16.52 | 27.51 | 38.03 | 29.37 | 46.00 | -16.63 |



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2. The following test results were performed at above 1GHz 2410MHz:

Harmonics & Spurious Emissions

Peak Measurement

| Fraguenay | Cable | Antenna | Preamp | Reading | Emission | Limit | | |
|-----------|-------|---------|--------|---------|----------|--------|------------|--------------|
| Frequency | loss | factors | factor | Level | Level | (dBμV/ | Over limit | Polarization |
| (MHz) | (dB) | (dB/m) | (dB) | (dBµV) | (dBμV/m) | m) | | |
| 2410 | 6.34 | 30.03 | 38.87 | 85 | 82.5 | 114 | -31.5 | Vertical |
| 2390 | 6.28 | 29.98 | 39.03 | 40.00 | 37.23 | 74.00 | -36.77 | Vertical |
| 2400 | 6.34 | 30.03 | 38.87 | 38.00 | 35.50 | 74.00 | -38.50 | Vertical |
| 2122 | 5.72 | 28.99 | 39.55 | 47.00 | 42.16 | 74.00 | -31.84 | Vertical |
| 3397 | 7.22 | 32.42 | 39.85 | 46.35 | 46.14 | 74.00 | -27.86 | Vertical |
| 4808 | 9.36 | 34.25 | 41.53 | 45.73 | 47.81 | 74.00 | -26.19 | Vertical |
| 7222 | 13.30 | 37.24 | 40.88 | 46.19 | 55.85 | 74.00 | -18.15 | Vertical |
| 9619 | 13.39 | 37.99 | 37.56 | 41.26 | 55.08 | 74.00 | -18.92 | Vertical |
| 12033 | 16.77 | 39.12 | 39.13 | 42.92 | 59.68 | 74.00 | -14.32 | Vertical |
| 2410 | 6.34 | 30.03 | 38.87 | 85.3 | 82.8 | 114 | -31.2 | Horizontal |
| 2390 | 6.28 | 29.98 | 39.03 | 40.00 | 37.23 | 74.00 | -36.77 | Horizontal |
| 2400 | 6.34 | 30.03 | 38.87 | 39.00 | 36.50 | 74.00 | -37.50 | Horizontal |
| 2462 | 6.70 | 30.25 | 39.61 | 44.94 | 42.28 | 74.00 | -31.72 | Horizontal |
| 3346 | 7.05 | 32.36 | 39.47 | 44.92 | 44.86 | 74.00 | -29.14 | Horizontal |
| 4808 | 9.36 | 34.25 | 41.53 | 46.19 | 48.27 | 74.00 | -25.73 | Horizontal |
| 7222 | 13.30 | 37.24 | 40.88 | 45.24 | 54.90 | 74.00 | -19.10 | Horizontal |
| 9619 | 13.39 | 37.99 | 37.56 | 41.13 | 54.95 | 74.00 | -19.05 | Horizontal |
| 12033 | 16.77 | 39.12 | 39.13 | 42.80 | 59.56 | 74.00 | -14.44 | Horizontal |

Average Measurement

| Average ivies | | 1 | | | | | 1 | 1 |
|---------------|-------|---------|--------|---------|----------|--------|------------|--------------|
| Frequency | Cable | Antenna | Preamp | Reading | Emission | Limit | | |
| (MHz) | loss | factors | factor | Level | Level | (dBμV/ | Over limit | Polarization |
| (1411 12) | (dB) | (dB/m) | (dB) | (dBµV) | (dBµV/m) | m) | | |
| 2410 | 6.34 | 30.03 | 38.87 | 84 | 81.5 | 94 | -12.50 | Vertical |
| 2390 | 6.28 | 29.98 | 39.03 | 25.00 | 22.23 | 54.00 | -31.77 | Vertical |
| 2400 | 6.34 | 30.03 | 38.87 | 25.50 | 23.00 | 54.00 | -31.00 | Vertical |
| 2122 | 5.72 | 28.99 | 39.55 | 37.49 | 32.65 | 54.00 | -21.35 | Vertical |
| 3397 | 7.22 | 32.42 | 39.85 | 36.80 | 36.59 | 54.00 | -17.41 | Vertical |
| 4808 | 9.36 | 34.25 | 41.53 | 34.00 | 36.08 | 54.00 | -17.92 | Vertical |
| 7222 | 13.30 | 37.24 | 40.88 | 35.86 | 45.52 | 54.00 | -8.48 | Vertical |
| 9619 | 13.39 | 37.99 | 37.56 | 32.00 | 45.82 | 54.00 | -8.18 | Vertical |
| 12033 | 16.77 | 39.12 | 39.13 | 32.88 | 49.64 | 54.00 | -4.36 | Vertical |
| 2410 | 6.34 | 30.03 | 38.87 | 85 | 82.5 | 94 | -11.5 | Horizontal |
| 2390 | 6.28 | 29.98 | 39.03 | 26.00 | 23.23 | 54.00 | -30.77 | Horizontal |
| 2400 | 6.34 | 30.03 | 38.87 | 26.00 | 23.50 | 54.00 | -30.50 | Horizontal |
| 2462 | 6.70 | 30.25 | 39.61 | 34.20 | 31.54 | 54.00 | -22.46 | Horizontal |
| 3346 | 7.05 | 32.36 | 39.47 | 34.61 | 34.55 | 54.00 | -19.45 | Horizontal |
| 4808 | 9.36 | 34.25 | 41.53 | 37.08 | 39.16 | 54.00 | -14.84 | Horizontal |
| 7222 | 13.30 | 37.24 | 40.88 | 36.05 | 45.71 | 54.00 | -8.29 | Horizontal |
| 9619 | 13.39 | 37.99 | 37.56 | 30.87 | 44.69 | 54.00 | -9.31 | Horizontal |
| 12033 | 16.77 | 39.12 | 39.13 | 32.95 | 49.71 | 54.00 | -4.29 | Horizontal |



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2440MHz:

. Harmonics & Spurious Emissions

Peak Measurement

| T Car Wicasa | | 1 | | | | | 1 | |
|--------------|-------|---------|--------|---------|----------|--------|------------|--------------|
| Frequency | Cable | Antenna | Preamp | Reading | Emission | Limit | | |
| (MHz) | loss | factors | factor | Level | Level | (dBμV/ | Over limit | Polarization |
| (1011 12) | (dB) | (dB/m) | (dB) | (dBµV) | (dBµV/m) | m) | | |
| 2440 | 6.4 | 30.18 | 38.59 | 86 | 83.99 | 114 | -30.01 | Vertical |
| 2955 | 6.51 | 31.78 | 39.19 | 45.45 | 44.55 | 74.00 | -29.45 | Vertical |
| 4247 | 8.65 | 33.46 | 40.52 | 45.48 | 47.07 | 74.00 | -26.93 | Vertical |
| 4876 | 10.36 | 34.34 | 39.89 | 45.90 | 50.71 | 74.00 | -23.29 | Vertical |
| 7324 | 12.91 | 37.31 | 40.40 | 44.36 | 54.18 | 74.00 | -19.82 | Vertical |
| 9772 | 13.99 | 38.04 | 38.01 | 42.24 | 56.26 | 74.00 | -17.74 | Vertical |
| 12220 | 17.95 | 39.23 | 39.30 | 41.50 | 59.38 | 74.00 | -14.62 | Vertical |
| 2440 | 6.4 | 30.18 | 38.59 | 85 | 82.99 | 114 | -31.01 | Horizontal |
| 2462 | 6.70 | 30.25 | 39.61 | 45.45 | 42.79 | 74.00 | -31.21 | Horizontal |
| 3091 | 7.47 | 32.02 | 39.86 | 45.77 | 45.40 | 74.00 | -28.60 | Horizontal |
| 4876 | 10.36 | 34.34 | 39.89 | 46.11 | 50.92 | 74.00 | -23.08 | Horizontal |
| 7307 | 12.99 | 37.30 | 40.50 | 44.55 | 54.34 | 74.00 | -19.66 | Horizontal |
| 9738 | 13.79 | 38.02 | 37.86 | 42.44 | 56.39 | 74.00 | -17.61 | Horizontal |
| 12220 | 17.95 | 39.23 | 39.30 | 40.83 | 58.71 | 74.00 | -15.29 | Horizontal |

Average Measurement

| Frequency (MHz) | Cable loss | Antenna factors | Preamp factor | Reading Level | Emission Level | Limit (dBµV/ | Over limit | Polarization |
|--------------------|------------|-----------------|---------------|------------------|-------------------|-----------------|------------|--------------|
| (1411 12) | (dB) | (dB/m) | (dB) | (dBμV) | (dBμV/m) | m) | | |
| 2440 | 6.4 | 30.18 | 38.59 | 85.8 | 83.79 | 94 | -10.21 | Vertical |
| 2955 | 6.51 | 31.78 | 39.19 | 32.79 | 31.89 | 54.00 | -22.11 | Vertical |
| 4247 | 8.65 | 33.46 | 40.52 | 35.80 | 37.39 | 54.00 | -16.61 | Vertical |
| 4876 | 10.36 | 34.34 | 39.89 | 34.60 | 39.41 | 54.00 | -14.59 | Vertical |
| 7324 | 12.91 | 37.31 | 40.40 | 33.70 | 43.52 | 54.00 | -10.48 | Vertical |
| 9772 | 13.99 | 38.04 | 38.01 | 31.39 | 45.41 | 54.00 | -8.59 | Vertical |
| 12220 | 17.95 | 39.23 | 39.30 | 30.80 | 48.68 | 54.00 | -5.32 | Vertical |
| 2440 | 6.4 | 30.18 | 38.59 | 82.9 | 80.89 | 94 | -13.11 | Horizontal |
| 2462 | 6.70 | 30.25 | 39.61 | 35.20 | 32.54 | 54.00 | -21.46 | Horizontal |
| 3091 | 7.47 | 32.02 | 39.86 | 34.90 | 34.53 | 54.00 | -19.47 | Horizontal |
| 4876 | 10.36 | 34.34 | 39.89 | 36.30 | 41.11 | 54.00 | -12.89 | Horizontal |
| 7307 | 12.99 | 37.30 | 40.50 | 34.80 | 44.59 | 54.00 | -9.41 | Horizontal |
| 9738 | 13.79 | 38.02 | 37.86 | 31.50 | 45.45 | 54.00 | -8.55 | Horizontal |
| 12220 | 17.95 | 39.23 | 39.30 | 29.60 | 47.48 | 54.00 | -6.52 | Horizontal |



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2470MHz:

Harmonics & Spurious Emissions

Peak Measurement

| - Carringada | Cable | Antenna | Preamp | Reading | Emission | Limit | | |
|--------------|-------|---------|--------|---------|----------|--------|------------|--------------|
| Frequency | loss | factors | factor | Level | Level | (dBμV/ | Over limit | Polarization |
| (MHz) | (dB) | (dB/m) | (dB) | (dBμV) | (dBμV/m) | m) | | |
| 2470 | 6.45 | 30.3 | 39.72 | 85.9 | 82.93 | 114 | -31.07 | Vertical |
| 2483.5 | 6.22 | 30.32 | 39.53 | 38.00 | 35.01 | 74.00 | -38.99 | Vertical |
| 2500 | 5.76 | 30.37 | 39.15 | 37.00 | 33.98 | 74.00 | -40.02 | Vertical |
| 2343 | 6.11 | 29.84 | 39.51 | 44.16 | 40.60 | 74.00 | -33.40 | Vertical |
| 3550 | 7.85 | 32.60 | 40.17 | 45.51 | 45.79 | 74.00 | -28.21 | Vertical |
| 4978 | 11.54 | 34.46 | 41.09 | 44.27 | 49.18 | 74.00 | -24.82 | Vertical |
| 7443 | 12.72 | 37.37 | 40.01 | 43.74 | 53.82 | 74.00 | -20.18 | Vertical |
| 9925 | 14.24 | 38.08 | 37.78 | 41.20 | 55.74 | 74.00 | -18.26 | Vertical |
| 12424 | 17.51 | 39.37 | 39.52 | 42.53 | 59.89 | 74.00 | -14.11 | Vertical |
| 2470 | 6.45 | 30.3 | 39.72 | 84.5 | 81.53 | 114 | -32.47 | Horizontal |
| 2483.5 | 6.22 | 30.32 | 39.53 | 37.00 | 34.01 | 74.00 | -39.99 | Horizontal |
| 2500 | 5.76 | 30.37 | 39.15 | 37.00 | 33.98 | 74.00 | -40.02 | Horizontal |
| 2496 | 5.99 | 30.35 | 39.34 | 44.66 | 41.66 | 74.00 | -32.34 | Horizontal |
| 3720 | 7.42 | 32.80 | 39.42 | 44.40 | 45.20 | 74.00 | -28.80 | Horizontal |
| 4961 | 10.43 | 34.45 | 41.03 | 44.89 | 48.74 | 74.00 | -25.26 | Horizontal |
| 7443 | 12.72 | 37.37 | 40.01 | 44.83 | 54.91 | 74.00 | -19.09 | Horizontal |
| 9925 | 14.24 | 38.08 | 37.78 | 42.27 | 56.81 | 74.00 | -17.19 | Horizontal |
| 12373 | 17.63 | 39.32 | 39.45 | 42.45 | 59.95 | 74.00 | -14.05 | Horizontal |

Average Measurement

| Frequency | Cable | Antenna | Preamp | Reading | Emission | Limit | | |
|-----------|-------|---------|--------|---------|----------|--------|------------|--------------|
| (MHz) | loss | factors | factor | Level | Level | (dBμV/ | Over limit | Polarization |
| (1011 12) | (dB) | (dB/m) | (dB) | (dBµV) | (dBµV/m) | m) | | |
| 2470 | 6.45 | 30.3 | 39.72 | 85.65 | 82.68 | 94 | -11.32 | Vertical |
| 2483.5 | 6.22 | 30.32 | 39.53 | 25.00 | 22.01 | 54.00 | -31.99 | Vertical |
| 2500 | 5.76 | 30.37 | 39.15 | 25.00 | 21.98 | 54.00 | -32.02 | Vertical |
| 2343 | 6.11 | 29.84 | 39.51 | 34.50 | 30.94 | 54.00 | -23.06 | Vertical |
| 3550 | 7.85 | 32.60 | 40.17 | 35.20 | 35.48 | 54.00 | -18.52 | Vertical |
| 4978 | 11.54 | 34.46 | 41.09 | 34.21 | 39.12 | 54.00 | -14.88 | Vertical |
| 7443 | 12.72 | 37.37 | 40.01 | 33.60 | 43.68 | 54.00 | -10.32 | Vertical |
| 9925 | 14.24 | 38.08 | 37.78 | 30.80 | 45.34 | 54.00 | -8.66 | Vertical |
| 12424 | 17.51 | 39.37 | 39.52 | 30.60 | 47.96 | 54.00 | -6.04 | Vertical |
| 2470 | 6.45 | 30.3 | 39.72 | 71.7 | 68.73 | 94 | -25.27 | Horizontal |
| 2483.5 | 6.22 | 30.32 | 39.53 | 25.00 | 22.01 | 54.00 | -31.99 | Horizontal |
| 2500 | 5.76 | 30.37 | 39.15 | 25.00 | 21.98 | 54.00 | -32.02 | Horizontal |
| 2496 | 5.99 | 30.35 | 39.34 | 34.50 | 31.50 | 54.00 | -22.50 | Horizontal |
| 3720 | 7.42 | 32.80 | 39.42 | 34.21 | 35.01 | 54.00 | -18.99 | Horizontal |
| 4961 | 10.43 | 34.45 | 41.03 | 32.50 | 36.35 | 54.00 | -17.65 | Horizontal |
| 7443 | 12.72 | 37.37 | 40.01 | 33.90 | 43.98 | 54.00 | -10.02 | Horizontal |
| 9925 | 14.24 | 38.08 | 37.78 | 31.80 | 46.34 | 54.00 | -7.66 | Horizontal |
| 12373 | 17.63 | 39.32 | 39.45 | 30.81 | 48.31 | 54.00 | -5.69 | Horizontal |



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N/A: refer to remark 1).

Remark:

- 1). 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 15.249 (e) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

TEST RESULTS: The unit does meet the FCC requirements.



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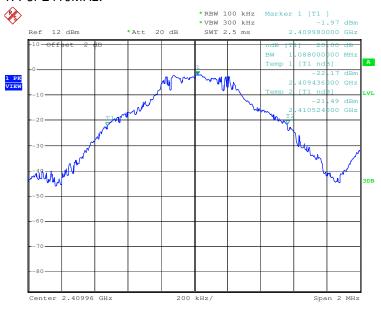
5.3.3 Occupied Bandwidth

Test Requirement: FCC Part 15.249
Test Method: ANSI C63.4:2003

Operation within the band 2.410 - 2.470GHz

The occupied bandwidth as below:

1. For 2410MHz:



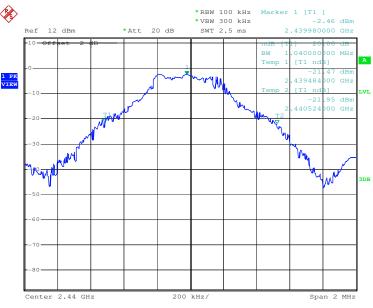
Date: 4.SEP.2009 13:54:28



Report No.: SZEMO09080483601

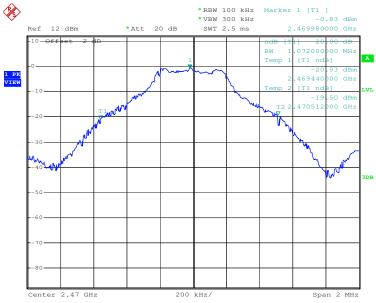
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2. For 2440MHz:



Date: 4.SEP.2009 13:55:25

3. For 2470MHz:



Date: 4.SEP.2009 13:57:48