

Certification Test Report

FCC ID: IHDT56MR1 IC: 1090-T56MR1

FCC Rule Part: CFR Part 90 / CFR Part 24 IC Radio Standards Specification: RSS 119 / RSS 134

ACS Report Number: 11-2007.W06.22.B

This report contains data that are not covered by the NVLAP accreditation

Applicant: Motorola Model: H80XAH6QR2AN

Test Begin Date: February 1, 2011 Test End Date: February 15, 2011

Report Issue Date: February 17, 2011



FOR THE SCOPE OF ACCREDITATION UNDER LAB Code 200897-0

This report is not be used to claim certification, approval, or endorsement by NVLAP, NIST or any government agency.

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This report contains 17 pages

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1.0 GENERAL

1.1 Purpose

The purpose of this report is to demonstrate compliance with Part 2 Subpart J, Part 24 and Part 90 of the FCC's Code of Federal Regulations; as well as RSS 119 and RSS 134 of Industry Canada's Radio Standard Specifications.

1.2 Manufacturer Information:

Motorola, Inc. 8000 W. Sunrise Blvd. Plantation, FL 33322

1.3 Product Description

The EUT is a cell phone - iDEN (800/900MHz), GPS, and BT 2.0 EDR.

Model Variants:

| Variants/Configurations | Description | Test |
|-------------------------|---|------|
| i420 | Carrier Model with silver back cover and flip | Yes |
| i412 | Boost Model with blue back cover and flip | |

The customer declares the two model variants identical in terms of hardware and compliant base on similarities.

Test Sample Serial Numbers: 364VMA2R5Q

Test Sample Condition: The test sample was provided in good physical condition with no noticeable functional defects.

1.4 Test Configurations and Justification

This document reports the results for the equipment under test (EUT) operating in the iDEN mode. The EUT was evaluated for radiated spurious emissions up to the 10th harmonic of the fundamental frequency.

The unit was pre-scanned in three orthogonal orientations and final measurements were performed in the orientation leading to the maximum emissions.

The document also reports the power line conducted emissions test results for the EUT in the iDEN TX mode for both 800 MHz and 900 MHz bands.

2.0 TEST FACILITIES

2.1 Location

The radiated and conducted emissions test sites are located at the following address:

Advanced Compliance Solutions, Inc. 3998 FAU Blvd, Suite 310
Boca Raton, Florida 33431
Phone: (561) 961-5585
Fax: (561) 961-5587
www.acstestlab.com

FCC Test Firm Registration #: 581606 Industry Canada Lab Code: 4175C

2.2 Laboratory Accreditations/Recognitions/Certifications

ACS is accredited to ISO/IEC 17025 by the National Institute of Standards and Technology under their National Voluntary Laboratory Accreditation Program (NVLAP), Lab Code 200897-0. Unless otherwise specified, all tests methods described within this report are covered under the ISO/IEC 17025 scope of accreditation.

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2.3 Radiated & Conducted Emissions Test Site Description

2.3.1 Semi-Anechoic Chamber Test Site

The EMC radiated test facility consists of an RF-shielded enclosure. The interior dimensions of the indoor semi-anechoic chamber are approximately 48 feet (14.6 m) long by 36 feet (10.8 m) wide by 24 feet (7.3 m) high and consist of rigid, 1/8 inch (0.32 cm) steel-clad, wood core modular panels with steel framing. In the shielded enclosure, the faces of the panels are galvanized and the chamber is self-supporting. 8-foot RF absorbing cones are installed on 4 walls and the ceiling. The steel-clad ground plane is covered with vinyl floor.

The turntable is driven by pneumatic motor, which is capable of supporting a 2000 lb. load. The turntable is flushed with the chamber floor which it is connected to, around its circumference, with metallic loaded springs. An EMCO Model 1051 Multi-device Controller controls the turntable position.

A pneumatic motor is used to control antenna polarizations and height relative to the ground. The height information is displayed on the control unit EMCO Model 1050.

The control room is an RF shielded enclosure attached to the semi-anechoic chamber with two bulkhead panels for connecting RF, and control cables. The dimension of the room is $7.3 \text{ m} \times 4.9 \text{ m} \times 3 \text{ m}$ high and the entrance doors of both control and conducted rooms are 3 feet (0.91 m) by 7 feet (2.13 m).

A diagram of the Semi-Anechoic Chamber Test Site is shown in Figure 2.3.1-1 below:

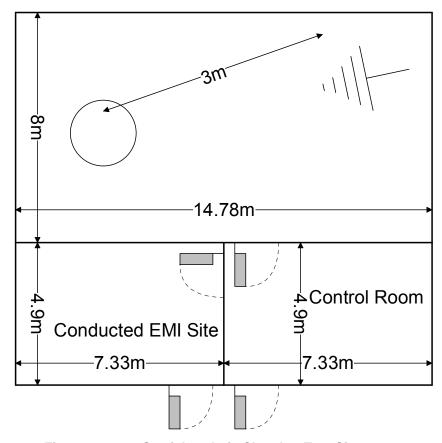


Figure 2.3.1-1: Semi-Anechoic Chamber Test Site

2.3.2 Conducted Emissions Test Site Description

The dimensions of the shielded conducted room are 7.3 x 4.9 x 3 m 3 . As per ANSI C63.4 2003 requirements, the data were taken using two LISNs; a Solar Model 8028-50 50 Ω /50 μ H and an EMCO Model 3825, which are installed as shown in Photograph 3. For 220 V, 50 Hz, a Polarad LISN (S/N 879341/048) is used in conjunction with a 1 kVA, 50 Hz/220 V EDGAR variable frequency generator, Model 1001B, to filter conducted noise from the generator.

A diagram of the room is shown below in figure 2.3.2-1:

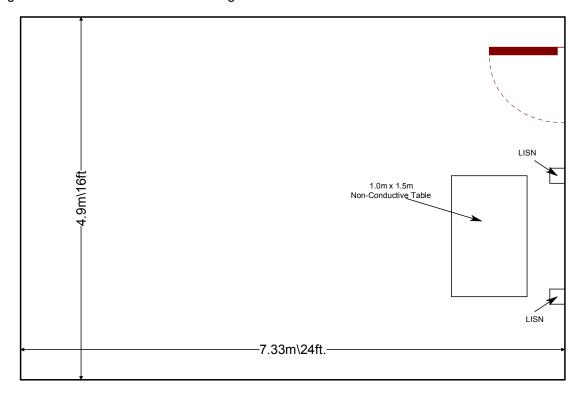


Figure 2.3.2-1: AC Mains Conducted EMI Site

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3.0 APPLICABLE STANDARD REFERENCES

The following standards were used:

- 1 ANSI C63.4-2003: Method of Measurements of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the 9 kHz to 40GHz 2003
- 2 US Code of Federal Regulations (CFR): Title 47, Part 2, Subpart J: Equipment Authorization Procedures 2010
- 3 US Code of Federal Regulations (CFR): Title 47, Part 90, Subpart I: Private Land Mobile Radio Services 2010
- 4 US Code of Federal Regulations (CFR): Title 47, Part 24: Personal Communications Services 2010¹
- 5 TIA-603-C: Land Mobile FM or PM Communications Equipment Measurement and Performance Standards 2004
- 6 Industry Canada Radio Standards Specification: RSS-119 Land Mobile and Fixed Radio Transmitters and Receivers Operating in the Frequency Range 27.41- 960 MHz, Issue 10, April 2010
- 7 Industry Canada Radio Standards Specification: RSS-134 900 MHz Narrowband Personal Communication Service Issue 1, March 2000
- 8 Industry Canada Radio Standards Specification: RSS-210 Low-power License-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment, Issue 8, December 2010.

¹ FCC Part 24 is not encompassed under our current NVLAP scope of accreditation

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4.0 LIST OF TEST EQUIPMENT

The calibration interval of test equipment is annually or the manufacturer's recommendations. Where the calibration interval deviates from the annual cycle based on the instrument manufacturer's recommendations, it shall be stated below.

Table 4-1: Test Equipment

| | | | | | | Calibration |
|---------|-----------------------|------------------------|--------------------|------------|-----------------------|-------------|
| AssetID | Manufacturer | Model # | Equipment Type | Serial # | Last Calibration Date | Due Date |
| 2002 | EMCO | 3108 | Antennas | 2147 | 9/10/2009 | 9/10/2011 |
| 2004 | EMCO | 3146 | Antennas | 1385 | 9/10/2009 | 9/10/2011 |
| 2006 | EMCO | 3115 | Antennas | 2573 | 2/21/2009 | 2/21/2011 |
| 2011 | Hewlett-Packard | HP 8447D | Amplifiers | 2443A03952 | 1/3/2011 | 1/3/2012 |
| re581 | Hewlett Packard | 8449B | Amplifier | 3008A00198 | 1/20/2011 | 1/20/2012 |
| 2013 | Hewlett Packard | HP8566B | Spectrum Analyzers | 2407A03233 | 8/5/2010 | 8/5/2012 |
| 2014 | Hewlett Packard | HP 85650A | Quasi Peak Adapter | 2430A00559 | 8/5/2010 | 8/5/2012 |
| 523 | Agilent | E7405 | Spectrum Analyzers | MY45103293 | 1/5/2011 | 1/5/2013 |
| 2037 | ACS Boca | Chamber EMI Cable Set | Cable Set | 2037 | 1/7/2011 | 1/7/2012 |
| 2078 | ACS Boca | Substitution Cable Set | Cable Set | 2078 | 2/2/2011 | 2/2/2012 |
| 2007 | EMCO | 3115 | Antennas | 2419 | 1/12/2010 | 1/12/2012 |
| 2022 | EMCO | LISN3825/2R | LISN | 1095 | 8/10/2009 | 8/10/2011 |
| 2045 | ACS Boca | Conducted Cable Set | Cable Set | 2045 | 1/6/2011 | 1/6/2012 |
| 2064 | CIR Q-TEL | FHT/22-10K-13/50-3A/3A | Filter | 9 | 1/15/2011 | 1/15/2012 |
| 2061 | Weinschel Engineering | 1506A | Power Splitter | FW183 | 2/3/2011 | 2/3/2012 |

NCR=No Calibration Required

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5.0 SUPPORT EQUIPMENT

Table 5-1: Support Equipment

| Diagram # | Manufacturer | Equipment Type | Model Number | Serial Number | |
|-----------|--------------|----------------|--------------|----------------------|--|
| 1 | AC adapter | Motorola | FMP5358A | 09135-12-0838738-B-B | |

6.0 EQUIPMENT UNDER TEST SETUP AND BLOCK DIAGRAM

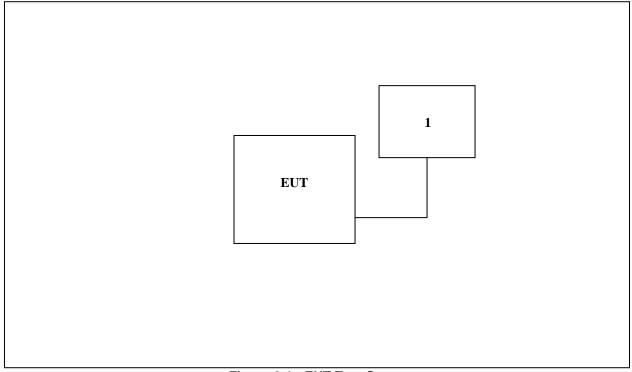


Figure 6-1: EUT Test Setup

NOTE: The EUT was tested standalone for the radiated TX emissions. The power supply was only used for the conducted emissions evaluation.

7.0 SUMMARY OF TESTS

Along with the tabular data shown below, plots were taken of all signals deemed important enough to document.

7.1 Field Strength of Spurious Emissions – FCC Part 2.1053, Part 90.210, Part 24.1332; RSS-119 **RSS-134**

7.1.1 Measurement Procedure

The equipment under test is placed in the Semi-Anechoic Chamber (described in section 2.3.1) on a wooden table at the turntable center. For each spurious emission, the antenna mast is raised and lowered from one (1) to four (4) meters and the turntable is rotated 360° and the maximum reading on the spectrum analyzer is recorded. This was repeated for both horizontal and vertical polarizations of the receive antenna.

The equipment under test is then replaced with a substitution antenna fed by a signal generator. The signal generator's frequency is set to that of the spurious emission recorded from the equipment under test. The antenna mast is raised and lowered from one (1) to four (4) meters to obtain a maximum reading on the spectrum analyzer. The output of the signal generator is then adjusted until the reading on the spectrum analyzer matches that obtained from the equipment under test. The signal generator level is recorded. The power in dBm of each spurious emission is calculated by correcting the signal generator level for the cable loss and gain of the substitution antenna referenced to a dipole. The spectrum was investigated in accordance to CFR 47 Part 2.1057.

The magnitude of all spurious emissions not reported were attenuated below the noise floor of the measurement system and therefore not specified in this report. Results are shown below in Tables 7.1.2-1 through 7.1.2-5.

7.1.2 Measurement Results

Table 7.1.2-1: Field Strength of Spurious Emissions – 806.0625 MHz – iDEN TX Mode

| Frequency (MHz) | Spectrum Analyzer Level (dBm) | Antenna Polarity (H/V) | ERP (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|--|------------------------------|--------------|----------------|----------------|
| 1612.125 | -56.45 | Н | -51.26 | -13.00 | 38.26 |
| 2418.188 | -39.10 | Н | -29.72 | -13.00 | 16.72 |
| 3224.25 | -55.65 | 55.65 H -45.29 | | -13.00 | 32.29 |
| 4030.313 | -48.75 | -48.75 H -32.74 | | -13.00 | 19.74 |
| 8060.625 | -66.65 | -66.65 H - | | -13.00 | 41.61 |
| | | | | | |
| 1612.125 | -46.95 | V | -41.46 | -13.00 | 28.46 |
| 2418.188 | -46.60 | V | -35.88 | -13.00 | 22.88 |
| 3224.25 | -53.95 | V | -41.09 | -13.00 | 28.09 |
| 4030.313 | -54.80 | V | -39.19 | -13.00 | 26.19 |
| 8060.625 | -66.20 | V | -54.26 | -13.00 | 41.26 |

NOTE: All frequencies not listed were below the noise floor if the spectrum analyzer.

² FCC part 24 is not encompassed within our current NVLAP scope of accreditation.

Table 7.1.2-2: Field Strength of Spurious Emissions – 813.5625 MHz – iDEN TX Mode

| Frequency (MHz) | Spectrum Analyzer Level (dBm) | Antenna Polarity (H/V) | Spurious ERP (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|--|------------------------------|--------------------------|----------------|----------------|
| 1627.125 | -57.45 | Н | -53.31 | -13.00 | 40.31 |
| 2440.688 | -39.85 | Н | -30.13 | -13.00 | 17.13 |
| 3254.25 | -55.75 | Н | -46.59 | -13.00 | 33.59 |
| 4067.813 | -49.65 | Н | -35.04 | -13.00 | 22.04 |
| 8135.625 | 8135.625 -65.60 | | -54.22 | -13.00 | 41.22 |
| | | | | | |
| 1627.125 | -47.90 | V | -42.96 | -13.00 | 29.96 |
| 2440.688 | -46.35 | V | -34.88 | -13.00 | 21.88 |
| 3254.25 | -53.70 | V | -41.69 | -13.00 | 28.69 |
| 4067.813 | -56.15 | V | -41.19 | -13.00 | 28.19 |
| 8135.625 | -66.65 | V | -55.52 | -13.00 | 42.52 |

NOTE: All frequencies not listed were below the noise floor if the spectrum analyzer.

Table 7.1.2-3: Field Strength of Spurious Emissions – 824.9875 MHz – iDEN TX Mode

| Frequency (MHz) | Spectrum Analyzer Level (dBm) | Antenna Polarity (H/V) | Spurious ERP (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|--|------------------------------|--------------------------|----------------|----------------|
| 1649.975 | -49.80 | Н | -43.36 | -13.00 | 30.36 |
| 2474.963 | -49.75 | Н | -40.33 | -13.00 | 27.33 |
| 3299.95 | -50.20 | Н | -39.44 | -13.00 | 26.44 |
| 4124.938 | -52.95 | Н | -37.08 | -13.00 | 24.08 |
| 8249.875 | -66.80 | Н | -54.47 | -13.00 | 41.47 |
| | | | | | |
| 1649.975 | -45.55 | V | -39.36 | -13.00 | 26.36 |
| 2474.963 | -50.50 | V | -38.58 | -13.00 | 25.58 |
| 3299.95 | -52.45 | V | -39.89 | -13.00 | 26.89 |
| 4124.938 | -51.85 | V | -35.13 | -13.00 | 22.13 |
| 4949.925 | -64.05 | V | -41.80 | -13.00 | 28.80 |
| 8249.875 | -66.55 | V | -54.22 | -13.00 | 41.22 |

NOTE: All frequencies not listed were below the noise floor if the spectrum analyzer.

Table 7.1.2-4: Field Strength of Spurious Emissions – 896.01875 MHz – iDEN TX Mode³

| Frequency (MHz) | Spectrum Analyzer Level (dBm) | Antenna Polarity (H/V) | Spurious ERP (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|--|------------------------------|--------------------------|----------------|----------------|
| 1792.038 | -50.05 | Н | -42.06 | -13.00 | 29.06 |
| 2688.056 | -49.30 | Н | -35.55 | -13.00 | 22.55 |
| 3584.075 | -55.25 | Н | -43.31 | -13.00 | 30.31 |
| 5376.113 | -65.60 | Н | -51.90 | -13.00 | 38.90 |
| 8960.188 | -67.20 | Н | -50.24 | -13.00 | 37.24 |
| | | | | | |
| 1792.038 | -45.25 | V | -36.72 | -13.00 | 23.72 |
| 2688.056 | -49.25 | V | -34.16 | -13.00 | 21.16 |
| 3584.075 | -48.95 | ٧ | -34.60 | -13.00 | 21.60 |
| 4480.094 | -60.40 | V | -45.79 | -13.00 | 32.79 |
| 5376.113 | -66.35 | V | -53.20 | -13.00 | 40.20 |
| 8960.188 | -66.30 | V | -49.63 | -13.00 | 36.63 |

NOTE: All frequencies not listed were below the noise floor if the spectrum analyzer.

Table 7.1.2-5: Field Strength of Spurious Emissions – 901.98125 MHz – iDEN TX Mode³

| Frequency (MHz) | Spectrum Analyzer Level (dBm) | Antenna Polarity (H/V) | Spurious ERP (dBm) | Limit (dBm) | Margin (dB) |
|--------------------|--|------------------------------|--------------------------|----------------|----------------|
| 1803.963 | -54.65 | Н | -48.38 | -13.00 | 35.38 |
| 2705.944 | -47.30 | Н | -36.44 | -13.00 | 23.44 |
| 3607.925 | -54.20 | Н | -41.89 | -13.00 | 28.89 |
| 4509.906 | -63.90 | Н | -51.81 | -13.00 | 38.81 |
| 5411.888 | -62.90 | Н | -46.43 | -13.00 | 33.43 |
| 9019.813 | 019.813 -65.70 | | -48.11 | -13.00 | 35.11 |
| | | | | | |
| 1803.963 | -44.60 | V | -36.51 | -13.00 | 23.51 |
| 2705.944 | -43.20 | V | -31.25 | -13.00 | 18.25 |
| 3607.925 | -60.60 | V | -48.19 | -13.00 | 35.19 |
| 5411.888 | -65.70 | V | -52.36 | -13.00 | 39.36 |
| 9019.813 | -65.65 | V | -49.15 | -13.00 | 36.15 |

NOTE: All frequencies not listed were below the noise floor if the spectrum analyzer.

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³ FCC Part 24 is not encompassed within our current NVLAP scope of accreditation.

7.2 Power Line Conducted Emissions - FCC: Section 15.207 IC: RSS-Gen 7.2.4

7.2.1 Measurement Procedure

ANSI C63.4 sections 6 and 7 were the guiding documents for this evaluation. Conducted emissions were performed from 150 kHz to 30MHz with the spectrum analyzer's resolution bandwidth set to 9 kHz and the video bandwidth set to 30 kHz. The calculation for the conducted emissions is as follows:

Corrected Reading = Analyzer Reading + LISN Loss + Cable Loss Margin = Applicable Limit - Corrected Reading

7.2.2 Measurement Results

Results are shown in Tables 7.2.2-1 to 7.2.2-2 and Figures 7.2.2-1 to 7.2.2-4.

Table 7.2.2-1: Power Line Conducted EMI Results

| Frequency (MHz) | Uncorrected Reading (dBµV) | | Total Correction Factor (dB) | Corrected (dBµ | | Limit (d | ВµV) | Margin | (dB) |
|--------------------|-------------------------------|---------|------------------------------------|-------------------|---------|------------|---------|------------|---------|
| | Quasi- Peak | Average | | Quasi-Peak | Average | Quasi-Peak | Average | Quasi-Peak | Average |
| | | | | Line | 1 | | | | |
| 0.192 | 41.347 | 32.851 | 0.45 | 41.80 | 33.30 | 63.93 | 53.93 | 22.1 | 20.6 |
| 0.231 | 37.445 | 29.629 | 0.36 | 37.81 | 29.99 | 62.42 | 52.42 | 24.6 | 22.4 |
| 0.495 | 37.57 | 32.255 | 0.35 | 37.92 | 32.60 | 56.08 | 46.08 | 18.2 | 13.5 |
| 2.184 | 38.556 | 32.64 | 0.39 | 38.95 | 33.03 | 56.00 | 46.00 | 17.1 | 13.0 |
| 2.706 | 39.697 | 33.821 | 0.39 | 40.09 | 34.21 | 56.00 | 46.00 | 15.9 | 11.8 |
| 5.001 | 37.984 | 31.346 | 0.48 | 38.47 | 31.83 | 60.00 | 50.00 | 21.5 | 18.2 |
| 5.003 | 37.952 | 31.32 | 0.48 | 38.44 | 31.80 | 60.00 | 50.00 | 21.6 | 18.2 |
| 5.337 | 37.847 | 32.073 | 0.55 | 38.39 | 32.62 | 60.00 | 50.00 | 21.6 | 17.4 |
| 5.515 | 36.04 | 29.878 | 0.58 | 36.62 | 30.46 | 60.00 | 50.00 | 23.4 | 19.5 |
| 5.876 | 36.173 | 30.253 | 0.64 | 36.82 | 30.90 | 60.00 | 50.00 | 23.2 | 19.1 |
| | | | | Line | 2 | | | | |
| 0.456 | | 34.3 | 0.41 | | 34.71 | 56.77 | 46.77 | | 12.1 |
| 0.500 | | 32.45 | 0.40 | | 32.85 | 56.00 | 46.00 | | 13.1 |
| 0.546 | | 29.44 | 0.41 | | 29.85 | 56.00 | 46.00 | | 16.2 |
| 2.142 | | 33.905 | 0.50 | | 34.40 | 56.00 | 46.00 | | 11.6 |
| 2.717 | | 33.248 | 0.50 | | 33.74 | 56.00 | 46.00 | | 12.3 |
| 5.292 | | 34.908 | 0.64 | | 35.55 | 60.00 | 50.00 | | 14.5 |

NOTES:

The EUT was charging while the IDEN TX was turned on at 813 MHz.

The values reported for Line 2 on the Average column are peak values, which are sufficient to show compliance since they are below both Quasi-Peak and Average Limits.

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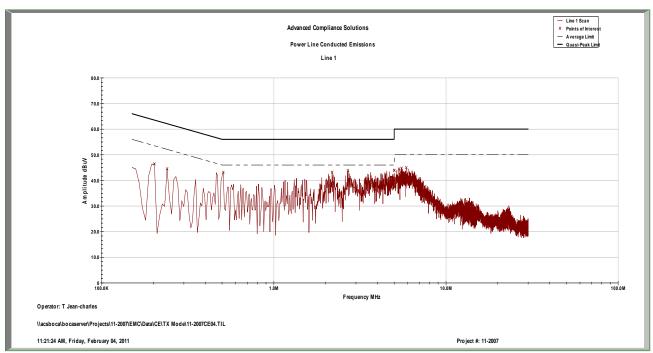


Figure 7.2.2-1: Conducted Emission Line 1

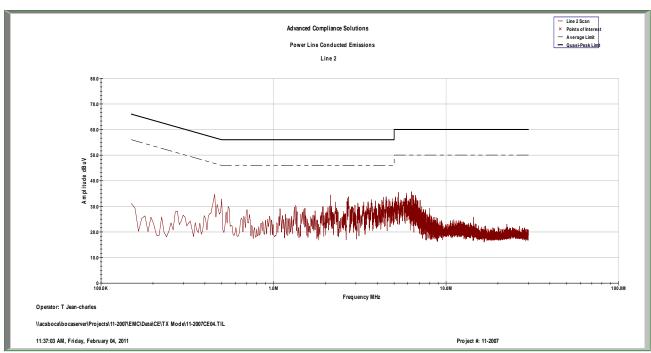


Figure 7.2.2-2: Conducted Emission Line 2

Table 7.2.2-2: Power Line Conducted EMI Results

| | Table Fizit 2.1 ewer zine dendacted zini Recate | | | | | | | | |
|--------------------|---|---------|------------------------------------|---------------------------|---------|--------------|---------|-------------|---------|
| Frequency (MHz) | Uncorrected Reading (dBµV) | | Total Correction Factor (dB) | Corrected Level (dΒμV) | | Limit (dΒμV) | | Margin (dB) | |
| | Quasi- Peak | Average | | Quasi-Peak | Average | Quasi-Peak | Average | Quasi-Peak | Average |
| | | | | Line | e 1 | | | | |
| 0.486 | 30.889 | 21.84 | 0.35 | 31.24 | 22.19 | 56.23 | 46.23 | 25.0 | 24.0 |
| 0.507 | 42.776 | 37.803 | 0.33 | 43.11 | 38.14 | 55.88 | 45.88 | 12.8 | 7.7 |
| 2.347 | 38.579 | 30.094 | 0.39 | 38.97 | 30.49 | 56.00 | 46.00 | 17.0 | 15.5 |
| 2.933 | 39.5 | 29.855 | 0.39 | 39.89 | 30.25 | 56.00 | 46.00 | 16.1 | 15.8 |
| 4.659 | 38.305 | 30.832 | 0.48 | 38.78 | 31.31 | 56.00 | 46.00 | 17.2 | 14.7 |
| 4.763 | 36.543 | 29.734 | 0.48 | 37.02 | 30.21 | 56.00 | 46.00 | 19.0 | 15.8 |
| 4.804 | 36.954 | 13.519 | 0.48 | 37.43 | 14.00 | 56.00 | 46.00 | 18.6 | 32.0 |
| 4.962 | 37.517 | 30.272 | 0.48 | 38.00 | 30.75 | 56.00 | 46.00 | 18.0 | 15.3 |
| 5.004 | 37.975 | 30.637 | 0.48 | 38.46 | 31.12 | 60.00 | 50.00 | 21.5 | 18.9 |
| 5.866 | 38.694 | 31.711 | 0.64 | 39.34 | 32.35 | 60.00 | 50.00 | 20.7 | 17.6 |
| | | | | Line | 2 | | | | |
| 0.159 | 45.334 | 34.166 | 0.56 | 45.90 | 34.73 | 65.53 | 55.53 | 19.6 | 20.8 |
| 0.197 | 40.153 | 30.449 | 0.55 | 40.70 | 31.00 | 63.72 | 53.72 | 23.0 | 22.7 |
| 0.472 | 41.895 | 36.892 | 0.41 | 42.31 | 37.30 | 56.49 | 46.49 | 14.2 | 9.2 |
| 3.582 | 37.952 | 31.209 | 0.54 | 38.49 | 31.75 | 56.00 | 46.00 | 17.5 | 14.3 |
| 5.475 | 36.764 | 30.568 | 0.67 | 37.44 | 31.24 | 60.00 | 50.00 | 22.6 | 18.8 |
| 5.910 | 38.308 | 31.745 | 0.75 | 39.06 | 32.50 | 60.00 | 50.00 | 20.9 | 17.5 |
| 5.99091 | 38.614 | 30.279 | 0.77 | 39.38 | 31.05 | 60.00 | 50.00 | 20.6 | 19.0 |
| 6.26069 | 33.038 | 27.01 | 0.65 | 33.69 | 27.66 | 60.00 | 50.00 | 26.3 | 22.3 |
| 6.32085 | 38.437 | 31.117 | 0.66 | 39.10 | 31.78 | 60.00 | 50.00 | 20.9 | 18.2 |
| 6.45005 | 38.147 | 30.453 | 0.69 | 38.83 | 31.14 | 60.00 | 50.00 | 21.2 | 18.9 |

NOTES: The EUT was charging while the IDEN TX was turned on at 896 MHz.

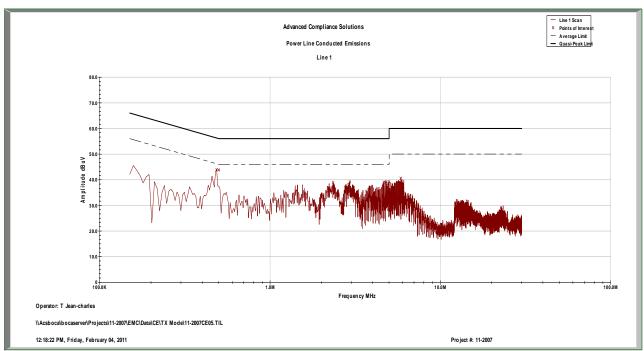


Figure 7.2.2-3: Conducted Emission Line 1

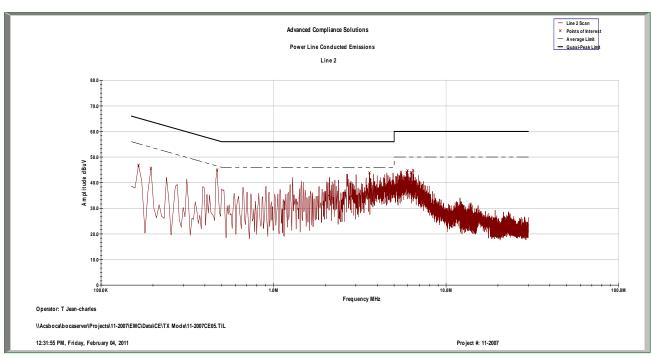


Figure 7.2.2-4: Conducted Emission Line 2

8.0 CONCLUSION

In the opinion of ACS, Inc. the model H80XAH6QR2AN, manufactured by Motorola, Inc., meets all the requirements of FCC Part 90 and Part 24 as well as IC RSS-119 and RSS 134 as applicable.

End Report