



TEST REPORT

Test Report No. : UL-RPT-RP91842JD07C V4.0

Manufacturer : Alert MetalGuard ApS
Model No. : Alert HyperGuard V2.0 Antenna 12cm
FCC ID : S8OHYPER1730
Test Standard(s) : FCC Parts 15.207, 15.209 15.215 (c)

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2. The results in this report apply only to the sample(s) tested.
3. The sample tested is in compliance with the above standard(s).
4. The test results in this report are traceable to the national or international standards.
5. Version 4.0 supersedes all previous versions.

Date of Issue: 08 June 2015

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This laboratory is accredited by UKAS.
The tests reported herein have been
performed in accordance with its' terms
of accreditation.

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1. Customer Information

| | |
|----------------------|---|
| Company Name: | Alert MetalGuard ApS |
| Address: | Vester Voldgade 104 1552 Copenhagen V Denmark |

2. Summary of Testing

2.1. General Information

| | |
|---------------------------------|--|
| Specification Reference: | 47CFR15.207, 47CFR15.209 and 47CFR15.215 |
| Specification Title: | Code of Federal Regulations Volume 47 (Telecommunications) : Part 15 Subpart C (Intentional Radiators) - Sections 15.207, 209 and 15.215 |
| Site Registration: | FCC: 209735 |
| Location of Testing: | UL VS LTD, Unit 3 Horizon, Wade Road, Kingsland Business Park, Basingstoke, Hampshire, RG24 8AH, United Kingdom |
| Test Dates: | 28 February 2013 to 15 May 2013 |

2.2. Summary of Test Results

| FCC Reference (47CFR) | Measurement | Result |
|--|--|--------|
| Part 15.207 | Transmitter AC Conducted Emissions | ✓ |
| Part 15.209 | Transmitter Radiated Emissions | ✓ |
| Part 15.209 | Transmitter Radiated Emissions (Fundamental) | ✓ |
| Part 15.215(c) | Transmitter 20 dB Bandwidth | ✓ |
| Key to Results | | |
|  = Complied |  = Did not comply | |

2.3. Methods and Procedures

| | |
|-------------------|---|
| Reference: | ANSI C63.4 (2009) |
| Title: | American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |
| Reference: | ANSI C63.10 (2009) |
| Title: | American National Standard for Testing Unlicensed Wireless Devices |

2.4. Deviations from the Test Specification

For the measurements contained within this test report, there were no deviations from, additions to, or exclusions from the test specification identified above.

3. Equipment Under Test (EUT)

3.1. Identification of Equipment Under Test (EUT)

| | |
|------------------------------|------------------------------------|
| Brand Name: | Alert HyperGuard |
| Model Name or Number: | Alert HyperGuard V2.0 Antenna 12cm |
| Serial Number: | 1501050126-08313001 |
| FCC ID: | S8OHYPER1730 |

| | |
|------------------------------|------------------------------------|
| Brand Name: | Alert HyperGuard |
| Model Name or Number: | Alert HyperGuard V2.0 Antenna 12cm |
| Serial Number: | 1501050126-08313002 |
| FCC ID: | S8OHYPER1730 |

3.2. Description of EUT

The Equipment Under Test was a pair of antennas used as part of an electronic article surveillance control unit for use in a retail anti-theft system. One antenna is used as a transmit antenna, the other as a receive antenna. Both antennas are connected to a HyperGuard V2.0 Combo control unit (as listed in the Support Equipment section of this report) via CAT5 cables. The metal detecting antennas are floor standing. The antenna width is 12 cm.

3.3. Modifications Incorporated in the EUT

No modifications were applied to the EUT during testing.

3.4. Additional Information Related to Testing

| | | |
|----------------------------------|-------------|--------|
| Tested Technology: | RFID | |
| Power Supply Requirement: | Nominal | 24 VDC |
| Type of Unit: | Transceiver | |
| Transmit Frequency | 24.960 kHz | |

3.5. Support Equipment

The following support equipment was used to exercise the EUT during testing:

| | |
|---------------------------------|------------------------------------|
| Brand Name: | Alert HyperGuard |
| Model Name or Number: | HyperGuard V2.0 Combo |
| Serial Number: | 2C:E8:71:00:00:15 |
| Hardware Version Number: | AMG Hyper Controller 2.0 01066005B |
| Software Version Number: | 1.0 |

| | |
|------------------------------|--|
| Description: | Notebook PC running HyperGUARD Configuration Tool software |
| Brand Name: | Hewlett Packard |
| Model Name or Number: | nx9005 |
| Serial Number: | CNF32905YD |

| | |
|------------------------------|----------------------|
| Description: | DC Power Supply Unit |
| Brand Name: | ISO-Tech |
| Model Name or Number: | IPS2302A |
| Serial Number: | 504E005G2 |

| | |
|------------------------------|----------------------|
| Description: | Ethernet cable |
| Brand Name: | Not marked or stated |
| Model Name or Number: | Not marked or stated |

| | |
|------------------------------|----------------------|
| Description: | Mini USB cable |
| Brand Name: | Not marked or stated |
| Model Name or Number: | Not marked or stated |

| | |
|------------------------------|------------------------|
| Description: | Male to Male USB cable |
| Brand Name: | Nikkai |
| Model Name or Number: | L03BT |

| | |
|------------------------------|----------------------|
| Description: | Micro SD card |
| Brand Name: | Not marked or stated |
| Model Name or Number: | Not marked or stated |

4. Operation and Monitoring of the EUT during Testing

4.1. Operating Modes

The EUT was tested in the following operating mode(s):

- Transceive mode
- The EUT has only one mode of operation as it is constantly transmitting and receiving when in operation. It does not have a dedicated 'receive only' mode.

4.2. Configuration and Peripherals

The EUT was tested in the following configuration(s):

- Controlled using the HyperGUARD configuration application on a laptop PC. The application was used to enable continuous transmit mode.
- For Radiated testing, the Combo was placed at the centre of the turntable, on an 80cm high table. The two antennas were floor mounted and placed at opposite ends of the table. The antennas were connected to each other and to the Combo by two CAT5 cables.
- Ethernet, USB and mini USB unused ports on the Combo were terminated into a laptop PC. The laptop was placed outside the anechoic chamber during radiated testing. The Combo had a micro SD slot; this was terminated by a micro SD card.
- Power was supplied to the EUT via the Combo box

5. Measurements, Examinations and Derived Results

5.1. General Comments

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 6 Measurement Uncertainty for details.

In accordance with UKAS requirements all the measurement equipment is on a calibration schedule. All equipment was within the calibration period on the date of testing.

5.2. Test Results

5.2.1. Transmitter AC Conducted Spurious Emissions

Test Summary:

| | | | |
|--------------------------------|---|-------------------|---------------|
| Test Engineer: | Andrew Edwards | Test Date: | 02 April 2013 |
| Test Sample Serial No.: | 1501050126-08313001 & 1501050126-08313002 | | |

| | |
|--------------------------|---|
| FCC Reference: | Part 15.207 |
| Test Method Used: | As detailed in ANSI C63.10 Section 6.2 referencing ANSI C63.4 |

Environmental Conditions:

| | |
|-------------------------------|----|
| Temperature (°C): | 21 |
| Relative Humidity (%): | 29 |

Note(s):

1. The EUT power was supplied from the Combo with the Combo power being supplied from the 24 VDC output of an ISO-Tech bench power supply. The power supply input was connected to a 120 VAC 60 Hz single phase supply via a LISN.

Transmitter AC Conducted Spurious Emissions (continued)**Results: Live / Quasi Peak**

| Frequency (MHz) | Line | Level (dB μ V) | Limit (dB μ V) | Margin (dB) | Result |
|-----------------|------|--------------------|--------------------|-------------|----------|
| 6.297 | Live | 34.8 | 60.0 | 25.2 | Complied |
| 6.500 | Live | 41.8 | 60.0 | 18.2 | Complied |
| 6.599 | Live | 38.6 | 60.0 | 21.4 | Complied |
| 6.707 | Live | 37.6 | 60.0 | 22.4 | Complied |
| 6.999 | Live | 37.4 | 60.0 | 22.6 | Complied |
| 19.001 | Live | 25.2 | 60.0 | 34.8 | Complied |
| 20.000 | Live | 27.9 | 60.0 | 32.1 | Complied |
| 20.999 | Live | 29.8 | 60.0 | 30.2 | Complied |
| 22.002 | Live | 28.6 | 60.0 | 31.4 | Complied |
| 24.000 | Live | 24.7 | 60.0 | 35.3 | Complied |

Results: Live / Average

| Frequency (MHz) | Line | Level (dB μ V) | Limit (dB μ V) | Margin (dB) | Result |
|-----------------|------|--------------------|--------------------|-------------|----------|
| 6.383 | Live | 24.5 | 50.0 | 25.5 | Complied |
| 6.500 | Live | 15.0 | 50.0 | 35.0 | Complied |
| 6.626 | Live | 24.2 | 50.0 | 25.8 | Complied |
| 7.607 | Live | 22.1 | 50.0 | 27.9 | Complied |
| 18.645 | Live | 21.6 | 50.0 | 28.4 | Complied |
| 18.645 | Live | 21.6 | 50.0 | 28.4 | Complied |

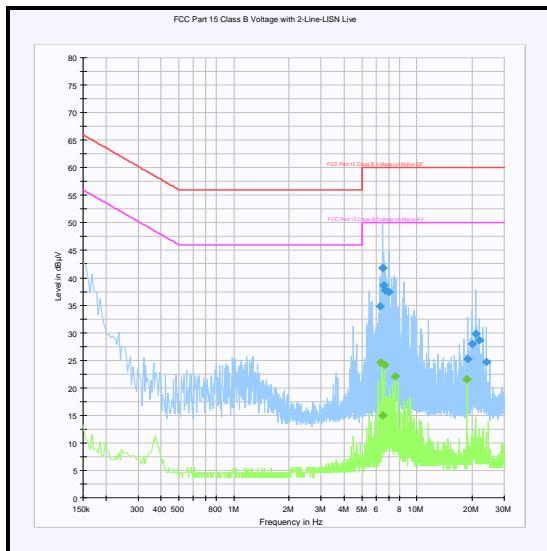
Transmitter AC Conducted Spurious Emissions (continued)**Results: Neutral / Quasi Peak**

| Frequency (MHz) | Line | Level (dB μ V) | Limit (dB μ V) | Margin (dB) | Result |
|-----------------|---------|--------------------|--------------------|-------------|----------|
| 5.501 | Neutral | 31.7 | 60.0 | 28.3 | Complied |
| 6.401 | Neutral | 37.8 | 60.0 | 22.2 | Complied |
| 6.500 | Neutral | 42.1 | 60.0 | 17.9 | Complied |
| 6.707 | Neutral | 37.9 | 60.0 | 22.1 | Complied |
| 6.999 | Neutral | 38.2 | 60.0 | 21.8 | Complied |
| 7.499 | Neutral | 35.4 | 60.0 | 24.6 | Complied |
| 7.998 | Neutral | 30.4 | 60.0 | 29.6 | Complied |
| 19.001 | Neutral | 25.4 | 60.0 | 34.6 | Complied |
| 20.000 | Neutral | 28.0 | 60.0 | 32.0 | Complied |
| 20.999 | Neutral | 29.6 | 60.0 | 30.4 | Complied |

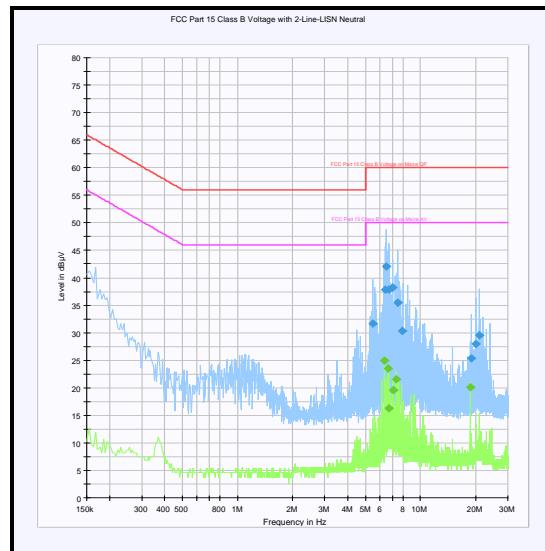
Results: Neutral / Average

| Frequency (MHz) | Line | Level (dB μ V) | Limit (dB μ V) | Margin (dB) | Result |
|-----------------|---------|--------------------|--------------------|-------------|----------|
| 6.374 | Neutral | 24.9 | 50.0 | 25.1 | Complied |
| 6.617 | Neutral | 23.6 | 50.0 | 26.4 | Complied |
| 6.707 | Neutral | 16.2 | 50.0 | 33.8 | Complied |
| 7.107 | Neutral | 19.5 | 50.0 | 30.5 | Complied |
| 7.355 | Neutral | 21.5 | 50.0 | 28.5 | Complied |
| 18.645 | Neutral | 20.1 | 50.0 | 29.9 | Complied |

Transmitter AC Conducted Spurious Emissions (continued)



Live



Neutral

Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test Equipment Used:

| Asset No. | Instrument | Manufacturer | Type No. | Serial No. | Date Calibration Due | Cal. Interval (Months) |
|-----------|-------------------|-----------------|----------|------------|----------------------|------------------------|
| A649 | Single Phase LISN | Rohde & Schwarz | ESH3-Z5 | 825562/008 | 19 Apr 2013 | 12 |
| A1830 | Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100668 | 19 Feb 2014 | 12 |
| M1263 | Test Receiver | Rohde & Schwarz | ESIB7 | 100265 | 09 Aug 2013 | 12 |

5.2.2. Transmitter Radiated Emissions

Test Summary:

| | | | |
|--------------------------------|---|--------------------|----------------------------------|
| Test Engineer: | Andrew Edwards | Test Dates: | 28 March 2013 & 01 April 2013 |
| Test Sample Serial No.: | 1501050126-08313001 & 1501050126-08313002 | | |

| | |
|--------------------------|--|
| FCC Reference: | Part 15.209 |
| Test Method Used: | As detailed in ANSI C63.10 Sections 6.3 and 6.5 referencing ANSI C63.4 |
| Frequency Range: | 9 kHz to 1000 MHz |

Environmental Conditions:

| | |
|-------------------------------|----------|
| Temperature (°C): | 21 to 22 |
| Relative Humidity (%): | 27 to 28 |

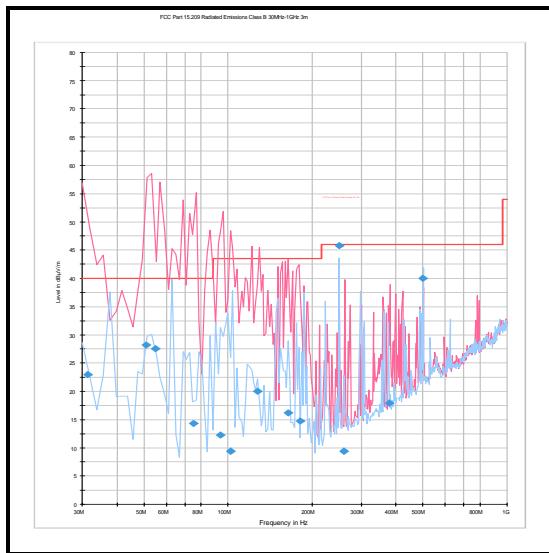
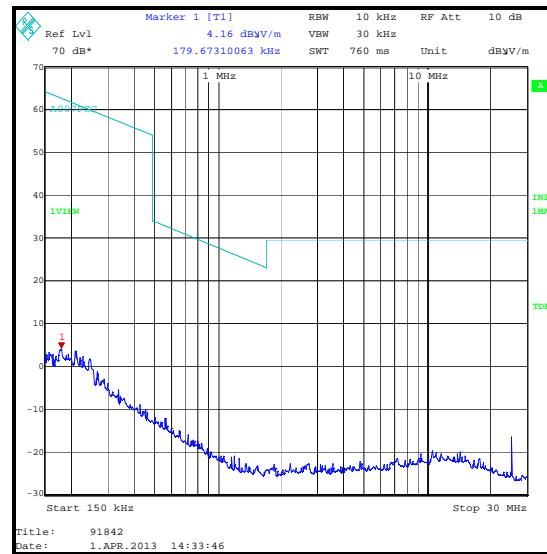
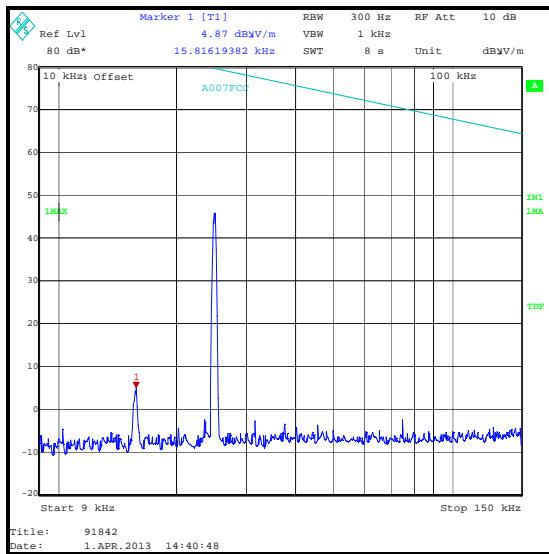
Note(s):

1. Limits below 30 MHz are specified at a test distance of 30 metres, whilst below 0.49 MHz they are specified at a test distance of 300 metres. However, as specified by FCC Section 15.31 (f)(2), measurements may be performed at a closer distance and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40dB/decade).
2. A transducer factor on the measuring instrument was used to extrapolate the results at 3 metres to a distance of 30 metres where required. A distance extrapolation factor of 40 dB was used.
3. Final measurement values include corrections for antenna factor and cable losses.
4. The emission shown at approximately 25 kHz is the fundamental emission frequency which was greater than 20 dB below the specified limit.
5. The emissions from 15 kHz to 54 kHz were investigated and found to be radiating from the test site turntable.
6. Measurements in the range 30 MHz to 1 GHz were performed in a semi-anechoic chamber (RFI Asset Number K0001) at a distance of 3 metres. The EUT was placed at a height of 80 cm above the reference ground plane in the centre of the chamber turntable. Maximum emission levels were determined by height searching the measurement antenna over the range 1 metre to 4 metres.
7. Suitable RF attenuation was used when making measurements in the 9 kHz to 150 kHz frequency range to prevent the EUT carrier overloading the test receiver. The RF level offset for the attenuation has been compensated for in the measurement results.
8. The EUT formed a large system. The test site antenna measurement point was positioned so that it was 3 metres from the closest periphery of the EUT.

Transmitter Radiated Spurious Emissions (continued)**Results: Quasi Peak**

| Frequency (MHz) | Antenna Polarity | Level (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|----------------------|----------------------|-------------|----------|
| 31.313 | Vertical | 23.0 | 40.0 | 17.0 | Complied |
| 50.975 | Vertical | 28.2 | 40.0 | 11.8 | Complied |
| 54.997 | Vertical | 27.6 | 40.0 | 12.4 | Complied |
| 74.975 | Vertical | 14.3 | 40.0 | 25.7 | Complied |
| 127.411 | Vertical | 20.0 | 43.5 | 23.5 | Complied |
| 163.710 | Vertical | 16.1 | 43.5 | 27.4 | Complied |
| 181.252 | Vertical | 14.8 | 43.5 | 28.7 | Complied |
| 249.991 | Vertical | 45.8 | 46.0 | 0.2 | Complied |
| 378.818 | Vertical | 17.9 | 46.0 | 28.1 | Complied |
| 500.002 | Horizontal | 40.0 | 46.0 | 6.0 | Complied |

Transmitter Radiated Spurious Emissions (continued)



Note: All emissions on the 9 KHz – 30MHz pre-scans are low by a factor of 20dB, due to the absence of a transducer factor at the time of measurement. An additional 20dB has subsequently added to any emissions observed during these pre-scan, for comparisons with the limit, when determining the necessity for final measurements.

For final measurements, see accompanying table.

Transmitter Radiated Spurious Emissions (continued)**Test Equipment Used:**

| Asset No. | Instrument | Manufacturer | Type No. | Serial No. | Date Calibration Due | Cal. Interval (Months) |
|-----------|-----------------------|-----------------|-----------|------------|----------------------|------------------------|
| A490 | Bilog Antenna | Chase | CBL6111A | 1590 | 14 May 2013 | 12 |
| A1834 | Attenuator | Hewlett Packard | 8491B | 10444 | 17 Jan 2014 | 12 |
| A2000 | Attenuator | Huber & Suhner | 6830.17.B | 301623 | 03 Apr 2013 | 12 |
| G0543 | Amplifier | Sonoma | 310N | 230801 | 03 Apr 2013 | 3 |
| K0001 | 5m RSE Chamber | Rainford EMC | N/A | N/A | 24 Oct 2013 | 12 |
| M1273 | Test Receiver | Rohde & Schwarz | ESIB 26 | 100275 | 15 Feb 2014 | 12 |
| M1568 | Magnetic Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 879284/2 | 12 Feb 2014 | 12 |

5.2.3. Transmitter Radiated Emissions (Fundamental)**Test Summary:**

| | | | |
|--------------------------------|---|-------------------|---------------|
| Test Engineer: | Andrew Edwards | Test Date: | 01 April 2013 |
| Test Sample Serial No.: | 1501050126-08313001 & 1501050126-08313002 | | |

| | |
|--------------------------|-------------------------|
| FCC Part: | 15.209 |
| Test Method Used: | ANSI C63.10 Section 6.4 |

Environmental Conditions:

| | |
|-------------------------------|----|
| Temperature (°C): | 21 |
| Relative Humidity (%): | 27 |

Results: Quasi Peak

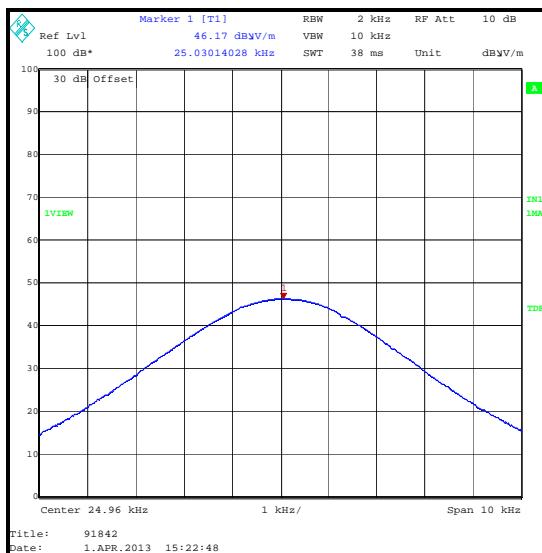
| Frequency (kHz) | Antenna Polarity | Level (dB μ V/m) | Limit at 300 m (dB μ V/m) | Margin (dB) | Result |
|-----------------|------------------|----------------------|-------------------------------|-------------|----------|
| 24.960 | 90° to EUT | 26.4* | 39.7 | 13.3 | Complied |

Note(s):

1. The limit is specified at a test distance of 300 metres. However, as specified by FCC Section 15.31 (f)(2), measurements may be performed at a closer distance and the measured level corrected to the specified measurement distance by using the square of an inverse linear distance extrapolation factor (40dB/decade).
2. A transducer factor on the measuring instrument was used to extrapolate the results at 3 metres to a distance of 30 metres. The transducer factor has a 40 dB extrapolation at a distance of 30 metres (1 decade). Measurements below 490 kHz should be performed at a distance of 300 metres (2 decades) therefore another 40 dB was subtracted from the measured value. The quasi peak level was measured as $46.4 \text{ dB}\mu\text{V/m} - 40 = 6.4 \text{ dB}\mu\text{V/m}$.

**Note: An additional 20dB has been added to attain the final value shown in the table; this is to account for a transducer factor that was not included during the original measurement.
ie: $6.4 \text{ dB}\mu\text{V/m} + 20 \text{ dB} = 26.4 \text{ dB}\mu\text{V/m}$*

3. Suitable RF attenuation was used when making measurements in the 9 kHz to 150 kHz frequency range to prevent the EUT carrier overloading the test receiver. The RF level offset for the attenuation has been compensated for in the measurement results.
4. The EUT formed a large system. The test site antenna measurement point was positioned so that it was 3 metres from the closest periphery of the EUT.

Transmitter Radiated Emissions (Fundamental) (continued)**Results:**

Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying table.

Test Equipment Used:

| Asset No. | Instrument | Manufacturer | Type No. | Serial No. | Date Calibration Due | Cal. Interval (Months) |
|-----------|-----------------------|-----------------|-----------|------------|----------------------|------------------------|
| A2000 | Attenuator | Huber & Suhner | 6830.17.B | 301623 | 03 Apr 2013 | 12 |
| K0001 | 5m RSE Chamber | Rainford EMC | N/A | N/A | 24 Oct 2013 | 12 |
| M1273 | Test Receiver | Rohde & Schwarz | ESIB 26 | 100275 | 15 Feb 2014 | 12 |
| M1568 | Magnetic Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 879284/2 | 12 Feb 2014 | 12 |

5.2.4. Transmitter 20 dB Bandwidth**Test Summary:**

| | | | |
|-------------------------|---|------------|------------------|
| Test Engineer: | Nick Steele | Test Date: | 28 February 2013 |
| Test Sample Serial No.: | 1501050126-08313001 & 1501050126-08313002 | | |

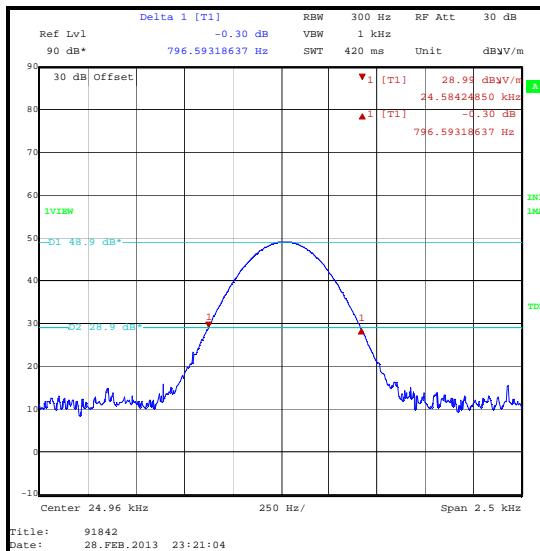
| | |
|-------------------|--|
| FCC Reference: | Part 15.215 |
| Test Method Used: | As detailed in ANSI C63.10 Section 6.9.1 |

Environmental Conditions:

| | |
|------------------------|----|
| Temperature (°C): | 22 |
| Relative Humidity (%): | 27 |

Results:

| 20 dB Bandwidth (kHz) | |
|--------------------------|-------|
| | 0.797 |

**Test Equipment Used:**

| Asset No. | Instrument | Manufacturer | Type No. | Serial No. | Date Calibration Due | Cal. Interval (Months) |
|-----------|-----------------------|-----------------|-----------|------------|----------------------|------------------------|
| A2000 | Attenuator | Huber & Suhner | 6830.17.B | 301623 | 03 Apr 2013 | 12 |
| K0001 | 5m RSE Chamber | Rainford EMC | N/A | N/A | 24 Oct 2013 | 12 |
| M1273 | Test Receiver | Rohde & Schwarz | ESIB 26 | 100275 | 15 Feb 2014 | 12 |
| M1568 | Magnetic Loop Antenna | Rohde & Schwarz | HFH2-Z2 | 879284/2 | 12 Feb 2014 | 12 |

6. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor such that a confidence level of approximately 95% is maintained. For the purposes of this document "approximately" is interpreted as meaning "effectively" or "for most practical purposes".

| Measurement Type | Range | Confidence Level (%) | Calculated Uncertainty |
|---------------------------------|--------------------|----------------------|------------------------|
| AC Conducted Spurious Emissions | 0.15 MHz to 30 MHz | 95% | ±4.69 dB |
| 20 dB Bandwidth | 24.960 kHz | 95% | ±0.92 ppm |
| Radiated Spurious Emissions | 9 kHz to 30 MHz | 95% | ±3.73 dB |
| Radiated Spurious Emissions | 30 MHz to 1000 MHz | 95% | ±2.94 dB |

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty the published guidance of the appropriate accreditation body is followed.

7. Report Revision History

| Version Number | Revision Details | | |
|----------------|------------------|--------|--|
| | Page No(s) | Clause | Details |
| 1.0 | - | - | Initial Version |
| 2.0 | All | - | Corrected EUT description and serial numbers. Updated 99% occupied bandwidth results. References to UL VS LIMITED changed to UL VS LTD due to company name change. |
| 3.0 | All | - | Added further Industry Canada RSS-Gen and RSS-210 clause references. |
| 4.0 | 16,18 & 20 | - | Corrections to fundamental emission and note added to spurious emissions. |
| | - | | Removed Industry Canada references and results |