



FCC Part 15, Subpart C, Section 15.247/RSS-210 Issue 8

Test Report

On

Simulated Radiation Detection Instrument

Radiation Safety & Control
Services, Inc.

Customer Name:

Customer P.O:

141202-3

Date of Report Revision:

February 12, 2015

Test Report No:

R-5908N, Rev. B

Test Start Date:

December 11, 2014

Test Finish Date:

December 15, 2014

Test Technician:

M. Seamans

Revision Approved By:

S. Wentworth

Report Revision Prepared By:

J. Ramsey

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Technical Information

| | | |
|--|--|----------------------------------|
| Report Number: | R-5908N, Rev. B | |
| Customer: | Radiation Safety & Control Services, Inc. | |
| Address: | 91 Portsmouth Ave. Stratham, NH 03885 | |
| Test Sample: | (2) Simulated Radiation Detection Instruments Consisting of: | |
| System Components: | Radiation Detection Instrument 1 | Radiation Detection Instrument 2 |
| Brand Names: | DMC2000TD | SORTD |
| Model Numbers: | 118001 | 205001 |
| Serial Numbers: | 501014010001, 501014010002 | 501114010001, 501114010002 |
| Manufactured By: | Radiation Safety & Control Services, Inc. | |
| Power Requirements: | 3 VDC via one disposable lithium coin cell battery | |
| Frequency Band of Operation: | 2405.0 MHz to 2480.0 MHz | |
| Frequencies Tested (Low, Mid and High): | 2405.0, 2440.0, 2480.0 MHz | |
| Antenna Type: | Monopole (internal) | |
| Equipment Use: | Radiation Detection Training Device | |
| FCC ID: | 2ADY2DMCTD2K | |
| IC: | 12547A-DMCTD2K | |

Test Specification:

FCC Rules and Regulations, Telecommunications, Part 15 Radio Frequency Devices, Subpart C, Intentional Radiators

RSS-210, Issue 8 2010, Low Power License-exempt Radio communication Devices (All Frequency Bands) Category I Equipment

RSS-GEN, Issue 4, 2014, General Requirements and Information for the Certification of Radio communication Equipment

Test Procedure:

ANSI C63.4:2009, Methods of Measurement of Radio Noise Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

FCC Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under 15.247, June 5, 2014



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EUT Description:

The Simulated Radiation Detection Instruments are used for radiation detection training purposes. Both units are powered by one internal battery 3.3 VDC disposable lithium coin cell battery. The only differences between the DMC2000TD and SORTD units are the location of the display, shape of the external enclosure and location of the single push button. See the Model Family Approval Justification Letter for a further description of these differences. The DMC2000TD was subjected to all test methods specified below. The SORTD was subjected to all methods below with the exception of DTS Bandwidth, Power Output and Power Density.

Tests Performed

The test methods performed on the EUT are shown below:

| FCC Part 15, Subpart C | Industry Canada RSS-210 Issue 8 | Industry Canada RSS-GEN Issue 4 | Test Method |
|---------------------------|------------------------------------|------------------------------------|---|
| 15.247(a)(2) | A8.2(1) | N/A | DTS Bandwidth |
| 15.247(b)(3) | A8.4(4) | N/A | Power Output |
| 15.247(d) | A8.5 | N/A | Antenna Terminal Out of Band/ Band Edge Conducted Emissions (30 MHz – 25 GHz) |
| 15.247(d) | A8.5 | N/A | Out of Band/Band Edge Radiated Emissions (30 MHz to 25 GHz) |
| 15.247(e) | A8.2(b) | N/A | Power Density |
| N/A | N/A | 7.1.2 | Receiver Spurious Emissions |



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General Test Requirements

1. The measurement procedures of ANSI C63.4:2009 and ANSI C63.10: 2013 were utilized as specified in FCC Part 15, Subpart C, Section 15.31(a)(3) and FCC Guidance for Performing Compliance Measurements on Digital Transmission Systems, June 5, 2014.
2. All radiated emissions measurements were performed on an Open Area Test Site (OATS), listed with the FCC, in accordance with FCC Section 15.31(d).
3. All measurements were performed at the specified 3 meter test distance as required by FCC Section 15.31(f).
4. The EUT was rotated throughout 360 degrees for all radiated emissions measurements as specified in FCC Section 15.31(f)(5).
5. All readily accessible EUT controls were adjusted in such a manner as to maximize the level of emissions in accordance with FCC Section 15.31(g).
6. Appropriate accessories were attached to all EUT ports during the performance of radiated emissions measurements as required by FCC Section 15.31(i).
7. The EUT operated over the frequency range of 2405.0 MHz to 2480.0 MHz. Testing was performed with the device operating at 3 frequencies, 1 at the top, 1 in the middle and 1 at the bottom of the range of operation in accordance with FCC Section 15.31(m).
8. The frequency spectrum was investigated from the lowest frequency generated in the device up to the 10th harmonic of the highest fundamental frequency in accordance with FCC Section 15.33(a)(1).
9. The EUT utilizes an internal Monopole Antenna and does not have an external antenna connector/external antenna and is therefore in compliance with 15.203.
10. A temporary antenna connector was installed to facilitate compliance measurements.



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Certification and Signatures

We certify that this report is a true representation of the results obtained from the tests of the equipment stated. We further certify that the measurements shown in this report were made in accordance with the procedures indicated and vouch for the qualifications of all Retlif Testing Laboratories personnel taking them.



Scott Wentworth
Branch Manager
NVLAP Approved Signatory



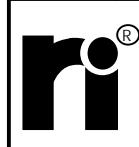
Todd Hannemann
Laboratory Supervisor
iNARTE Certified Technician ATL-0255-T

Non-Warranty Provision

The testing services have been performed, findings obtained and reports prepared in accordance with generally accepted laboratory principles and practices. This warranty is in lieu of all others, either expressed or implied.

Non-Endorsement

This test report contains only findings and results arrived at after employing the specific test procedures and standards listed herein. It is not intended to constitute a recommendation, endorsement or certification of the product or material tested. This test report must not be used by the client to claim product endorsement by NVLAP or any agency of the U.S. Government.



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Revision History

Revisions to this document are listed below; the latest revised document supersedes all previous issues of this document.

| Revision | Date | Pages Affected |
|-----------------|-------------------|--|
| - | January 26, 2015 | Original Release |
| A | February 3, 2015 | Global Changes: <ul style="list-style-type: none">• Document changed from R-5908N to R-5908N, Rev. A2:<ul style="list-style-type: none">• Revised RSS-GEN from Issue 3, 2010 to Issue 4, 2014 and ANSI C63.4: 2003 to ANSI C63.4: 2009 in Test Specifications3:<ul style="list-style-type: none">• Revised RSS-GEN from Issue 3 to Issue 4 and Receiver Spurious Emissions Paragraph from 6.1 to 7.1.2 in Test Performed table4:<ul style="list-style-type: none">• Revised ANSI C63.4 year from 2003 to 2009 in step 1 of General Test Requirements10:<ul style="list-style-type: none">• Revised Receiver Radiated Spurious Emissions Paragraph from 6.1 to 7.1.2 |
| B | February 12, 2015 | Global Changes: <ul style="list-style-type: none">• Document changed from R-5908N, Rev. A to R-5908N, Rev. B3:<ul style="list-style-type: none">• Expanded on EUT description11 & 12:<ul style="list-style-type: none">• Updated Out of Band/Band Edge Radiated Emissions & RSS-GEN Receiver Spurious Emissions equipment lists due to retesting53-61:<ul style="list-style-type: none">• Updated photographs due to retesting62-80:<ul style="list-style-type: none">• Inserted updated data92-100:<ul style="list-style-type: none">• Inserted updated photographs due to retesting102-103:<ul style="list-style-type: none">• Inserted updated data |



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Requirements and Test Results

FCC Section 15.247 (a)(2) - DTS Bandwidth

For systems using digital modulation techniques operating in the 902-928 MHz, 2400-2483.5 MHz, and 5725 – 5850 MHz bands the minimum 6 dB bandwidth shall be at least 500 kHz.

- Results: The minimum 6dB bandwidth measured was 1.573 MHz and the device was found to meet the requirement of 15.247 (a)(2).

FCC Section 15.247 (b)(3) - Power Output

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g.: alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

- Results: The maximum measured peak conducted output power was 0.024 mW. The maximum antenna gain of the monopole antenna is 2.0 dBi. The device was found to meet the power output requirements of 15.247 (b)(3) including de facto EIRP.



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Requirements and Test Results (con't)

FCC Section 15.247(d) – Unwanted Emissions

Antenna Terminal Out of Band/Band Edge Conducted Emissions

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under Paragraph (b)(3) of Section 15.247, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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)).

- **Results:** All measured out of band/band edge conducted emissions were below the specified limits and the device was found to meet the requirements of 15.247 (d).

FCC Section 15.247(d) – Unwanted Emissions

Radiated Spurious Emissions/Restricted Bands/Band Edge

Emissions which fall into restricted bands, as defined in 15.205(a) must comply with the radiated emissions limits specified in 15.209(a) and shown below in Table 1. Emissions emanating from the EUT cabinet and cables must also comply with the radiated emissions limits. Radiated emissions measurements were also performed at the band edges to ensure band edge compliance.

Table 1 - Radiated Emission Limits

| Frequency of Emission (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------------------|-----------------------------------|-------------------------------|
| 30 to 88 | 100 | 3 |
| 88 to 216 | 150 | 3 |
| 216 to 960 | 200 | 3 |
| Above 960 | 500 | 3 |

- **Results:**

All spurious emissions were measured and found to be in compliance with the limits specified in 15.209(a). Band edge emissions were also found to be in compliance with the limits specified in 15.209(a).



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Requirements and Test Results (con't)

FCC Section 15.247(e) – Power Spectral Density

For digitally modulated systems, the 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. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

- **Results:** The measured peak conducted output power complied with the power spectral density limit and actual power spectral density measurements were not required. The device was found to meet the requirements of 15.247 (e).

FCC Section 15.247(i) – RF Exposure

Transmitters operating under 15.247 must be operated in a manner that ensures the public is not exposed to RF energy levels in excess of the commission's guidelines. Based on the transmitter power and maximum antenna gain the separation distance for acceptable MPE power density levels to meet both the Occupational/Controlled Exposure and the General Population/Uncontrolled Exposure requirements of 1.1310 was calculated. The calculation below uses the more stringent General Population MPE Limits.

$$S = \frac{PG}{4\pi Dsq}$$

D = Minimum Separation Distance in cm

S = Max allowed Power Density in mW/cmsq

Per 1.1310 For Frequency of 2400MHz = 1mW/cmsq

Power = Max Power Input to Antenna = 0.024 mW

Gain = Max Power Gain of Antenna = 2.0 dBi = 1.58 numeric

$$1\text{mW}/\text{cmsq} = \frac{0.024 \times 1.58}{4(3.14) \times Dsq} = \frac{0.0379200}{12.56 \times Dsq}$$

$$Dsq = \frac{0.03792}{12.56 \times 1} = 0.00302$$

$$D = \text{sq. root } 0.00302 = 0.055 \text{ cm}$$

The unit has an internal antenna and the minimum separation distance will always be maintained.



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Requirements and Test Results (con't)

Requirement:

FCC Section 15.209(a) - Radiated Emission Limits, General Requirements

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in Table 2.

IC RSS-210, 2.6 - General Field Strength Limits:

Table 2 shows the general field strength limits of unwanted emissions, where applicable, for transmitters operating in accordance with the provisions specified in this RSS.

Table 2 - Radiated Emission Limits

| Frequency of Emission (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------------------|-----------------------------------|-------------------------------|
| 30 to 88 | 100 | 3 |
| 88 to 216 | 150 | 3 |
| 216 to 960 | 200 | 3 |
| Above 960 | 500 | 3 |

- Results:

The field strength of spurious radiated emissions did not exceed the limits specified in Table 2.

Requirement:

IC RSS-Gen, Par. 7.1.2 - Receiver Radiated Spurious Emissions

Spurious emissions from receivers must comply with the radiated emissions limits specified in RSS-Gen, Para. 7.1.2 and shown above in Table 2.

- Results:

No EUT receiver spurious emissions were observed within 10dB of the specified limit.



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Equipment Lists

FCC Section 15.247(a)(2) – DTS Bandwidth

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|-----------------|-------------------|----------------|-----------|------------|------------|
| 5070 | ROHDE & SCHWARZ | EMI TEST RECEIVER | 20 Hz - 40 GHz | ESIB40 | 10/29/2014 | 10/31/2016 |
| 5135 | NARDA | 10DB ATTENUATOR | DC - 12.4 GHz | 757C-10 | 10/28/2014 | 10/31/2015 |

FCC Section 15.247(b)(3) – Power Output

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|--------------|-----------------|-----------------|-----------|------------|------------|
| 5127 | BOONTON | POWER METER | | 4532 | 3/28/2014 | 3/31/2015 |
| 5129 | BOONTON | RF POWER SENSOR | 50 MHz - 18 GHz | 57518 | 7/10/2014 | 7/31/2015 |
| 5135 | NARDA | 10DB ATTENUATOR | DC - 12.4 GHz | 757C-10 | 10/28/2014 | 10/31/2015 |

FCC Section 15.247(d) – Antenna Terminal Out of Band/Band Edge Conducted Emissions, 30 MHz to 25 GHz

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|-----------------|-------------------|----------------|-----------|------------|------------|
| 5070 | ROHDE & SCHWARZ | EMI TEST RECEIVER | 20 Hz - 40 GHz | ESIB40 | 10/29/2014 | 10/31/2016 |
| 5135 | NARDA | 10DB ATTENUATOR | DC - 12.4 GHz | 757C-10 | 10/28/2014 | 10/31/2015 |

FCC Section 15.247(d) – Out of Band/Band Edge Radiated Emissions

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|-------|-------------------|-----------------------------|-------------------|-----------|-------------------------|-----------|
| 1232 | AGILENT / HP | PRE-AMPLIFIER | 1 - 26.5GHz | 8449B | 6/24/2014 | 6/30/2015 |
| 3258 | EMCO | DOUBLE RIDGED GUIDE ANTENNA | 1 GHZ - 18GHZ | 3115 | 9/4/2013 | 3/31/2015 |
| 3427B | ELECTRO-MECHANICS | BICONICAL ANTENNA | 20-200 MHZ | 3104 | 7/1/2014 | 1/31/2016 |
| 3430 | MCS | HORN ANTENNA | 18 GHz - 26.5 GHz | K-5039 | No Calibration Required | |
| 4029 | RETLIF | OPEN AREA TEST SITE | 3 / 10 Meters | RNH | 5/15/2013 | 5/31/2016 |
| 7034 | EMCO | ANTENNA | | 3146 | 8/23/2013 | 2/28/2015 |
| R462 | AGILENT / HP | ANALYZER, SPECTRUM | 100 Hz - 26.5 GHz | E7405A | 1/8/2015 | 1/31/2016 |

FCC Section 15.247(e) – Power Density

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|------|--------------|-----------------|-----------------|-----------|------------|------------|
| 5127 | BOONTON | POWER METER | | 4532 | 3/28/2014 | 3/31/2015 |
| 5129 | BOONTON | RF POWER SENSOR | 50 MHz - 18 GHz | 57518 | 7/10/2014 | 7/31/2015 |
| 5135 | NARDA | 10DB ATTENUATOR | DC - 12.4 GHz | 757C-10 | 10/28/2014 | 10/31/2015 |



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RSS-GEN Receiver Spurious Emissions

| EN | Manufacturer | Description | Range | Model No. | Cal Date | Due Date |
|-----------|---------------------|-----------------------------|-------------------|------------------|-------------------------|-----------------|
| 1232 | AGILENT / HP | PRE-AMPLIFIER | 1 - 26.5GHz | 8449B | 6/24/2014 | 6/30/2015 |
| 3258 | EMCO | DOUBLE RIDGED GUIDE ANTENNA | 1 GHZ - 18GHZ | 3115 | 9/4/2013 | 3/31/2015 |
| 3427B | ELECTRO-MECHANICS | BICONICAL ANTENNA | 20-200 MHZ | 3104 | 7/1/2014 | 1/31/2016 |
| 3430 | MCS | HORN ANTENNA | 18 GHz - 26.5 GHz | K-5039 | No Calibration Required | |
| 4029 | RETLIF | OPEN AREA TEST SITE | 3 / 10 Meters | RNH | 5/15/2013 | 5/31/2016 |
| 7034 | EMCO | ANTENNA | | 3146 | 8/23/2013 | 2/28/2015 |
| R462 | AGILENT / HP | ANALYZER, SPECTRUM | 100 Hz - 26.5 GHz | E7405A | 1/8/2015 | 1/31/2016 |



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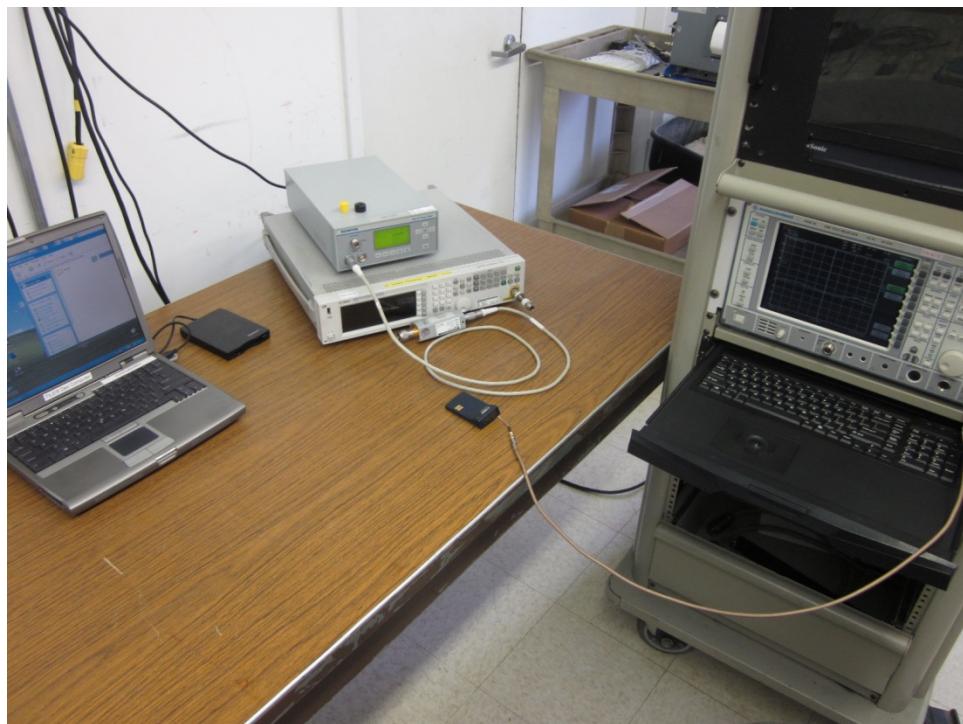
**Test Photograph(s)
DTS Bandwidth
FCC Section 15.247(a)(2)**



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**Test Photograph(s)
DTS Bandwidth**



Test Setup



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**DTS Bandwidth
Test Data**

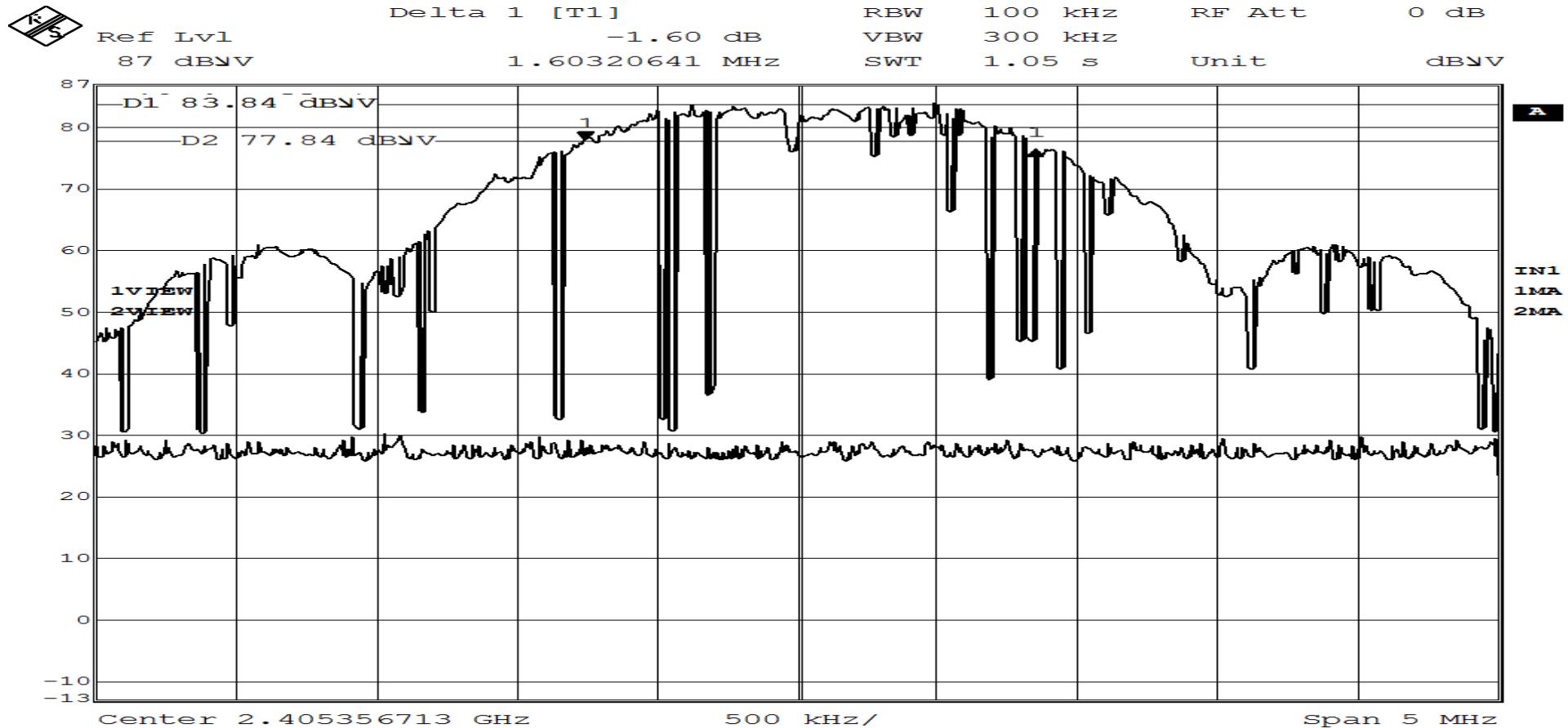


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RETLIF TESTING LABORATORIES

| | | | |
|---------------------|---|------------|----------------------------------|
| Test Method: | DTS Bandwidth | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC200TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.405 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) | | |
| Technician | M. Seamans | Date | December 11 th , 2014 |
| Climatic Conditions | Temp: 21.6 °C Relative Humidity: 23.0 % | | |
| Notes | DTS Bandwidth: 1.6032 MHz | | |

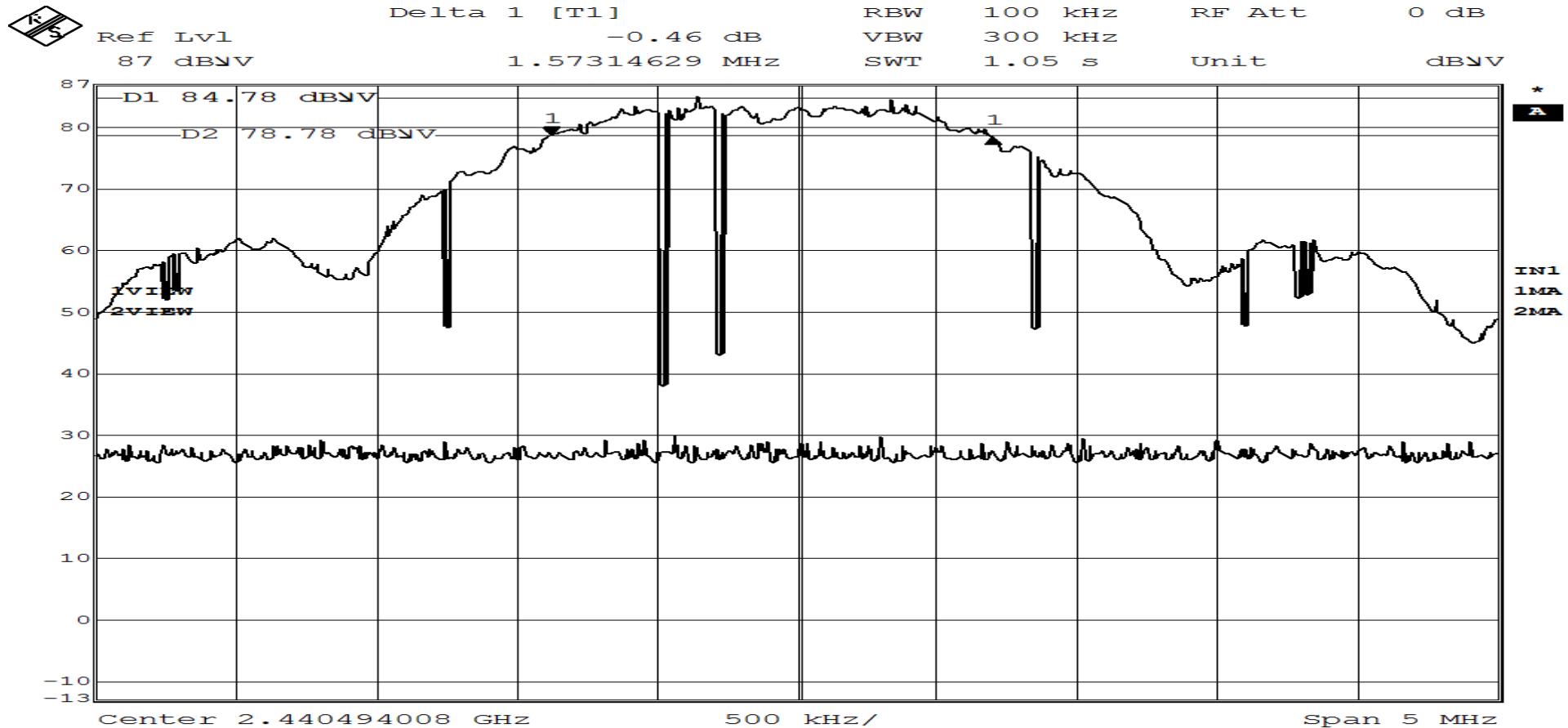


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RETLIF TESTING LABORATORIES

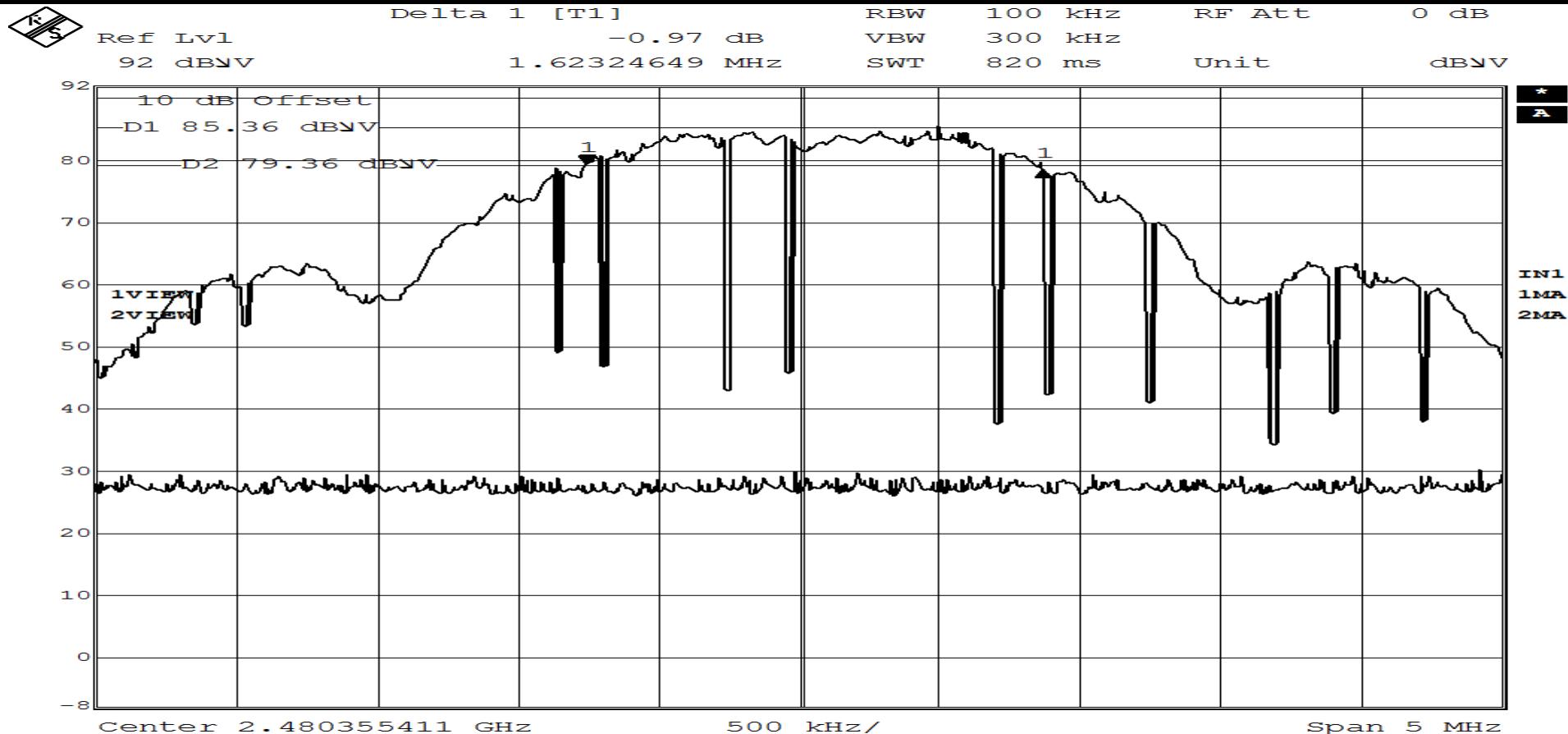
| | | | |
|---------------------|---|------------|----------------------------------|
| Test Method: | DTS Bandwidth | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC200TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.440 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) | | |
| Technician | M. Seamans | Date | December 11 th , 2014 |
| Climatic Conditions | Temp: 21.6 °C Relative Humidity: 23.0 % | | |
| Notes | DTS Bandwidth: 1.5731 MHz | | |



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RETLIF TESTING LABORATORIES

| | | | |
|---------------------|---|------------|----------------------------------|
| Test Method: | DTS Bandwidth | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC200TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.480 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (a)(2) | | |
| Technician | M. Seamans | Date | December 11 th , 2014 |
| Climatic Conditions | Temp: 21.6 °C Relative Humidity: 23.0 % | | |
| Notes | DTS Bandwidth: 1.6232 MHz | | |



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**Test Photograph(s)
Power Output
FCC Section 15.247(b)(3)**



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**Test Photograph(s)
Power Output**



Test Setup



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**Power Output
Test Data**



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RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| TEST DATA SHEET | |
|---------------------------|--|
| Test Method | Peak Power Output |
| Customer | Radiation Safety and Control Services, Inc. |
| Job Number | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument |
| Model Number | 118001 |
| Serial Number | 501014010001 |
| Test Specification | FCC Part 15, Subpart C Paragraph 15.247 (b)(3) |
| Operating Mode | Transmitting modulated signal |
| Technician | M. Seamans |
| Date | December 11 th , 2014 |

Notes: Measurement method: 9.1.2, PKPM1 Broadband RF Peak Power Meter



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Test Photograph(s)

Antenna Terminal Out of Band/Band Edge Conducted Emissions, 30 MHz to 25 GHz
FCC Section 15.247(d)



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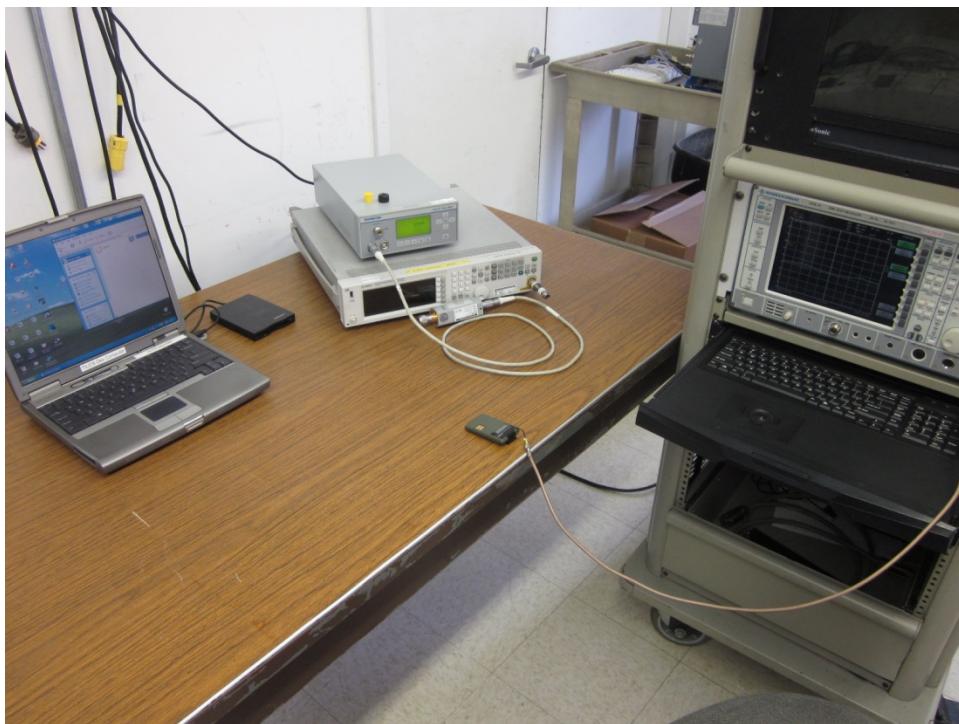
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Test Photograph(s)

Antenna Terminal Out of Band/Band Edge Conducted Emissions, 30 MHz to 25 GHz



Test Setup, DMC2000TD



Test Setup, SORTD



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**Antenna Terminal Out of Band/Band Edge Conducted Emissions, 30 MHz to 25 GHz
Test Data**



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**Out of Band Conducted Emissions
DMC2000TD Test Data**

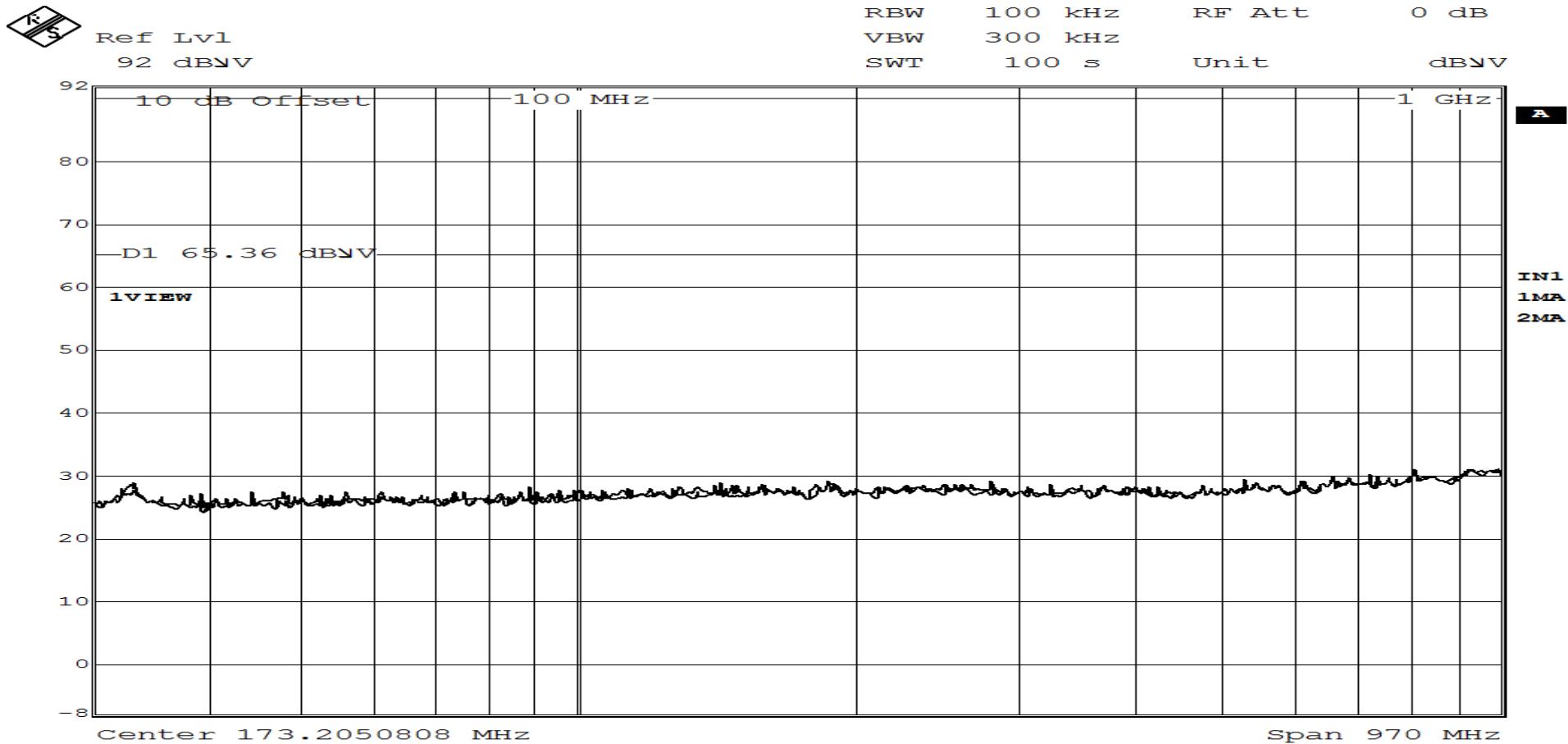


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RETLIF TESTING LABORATORIES

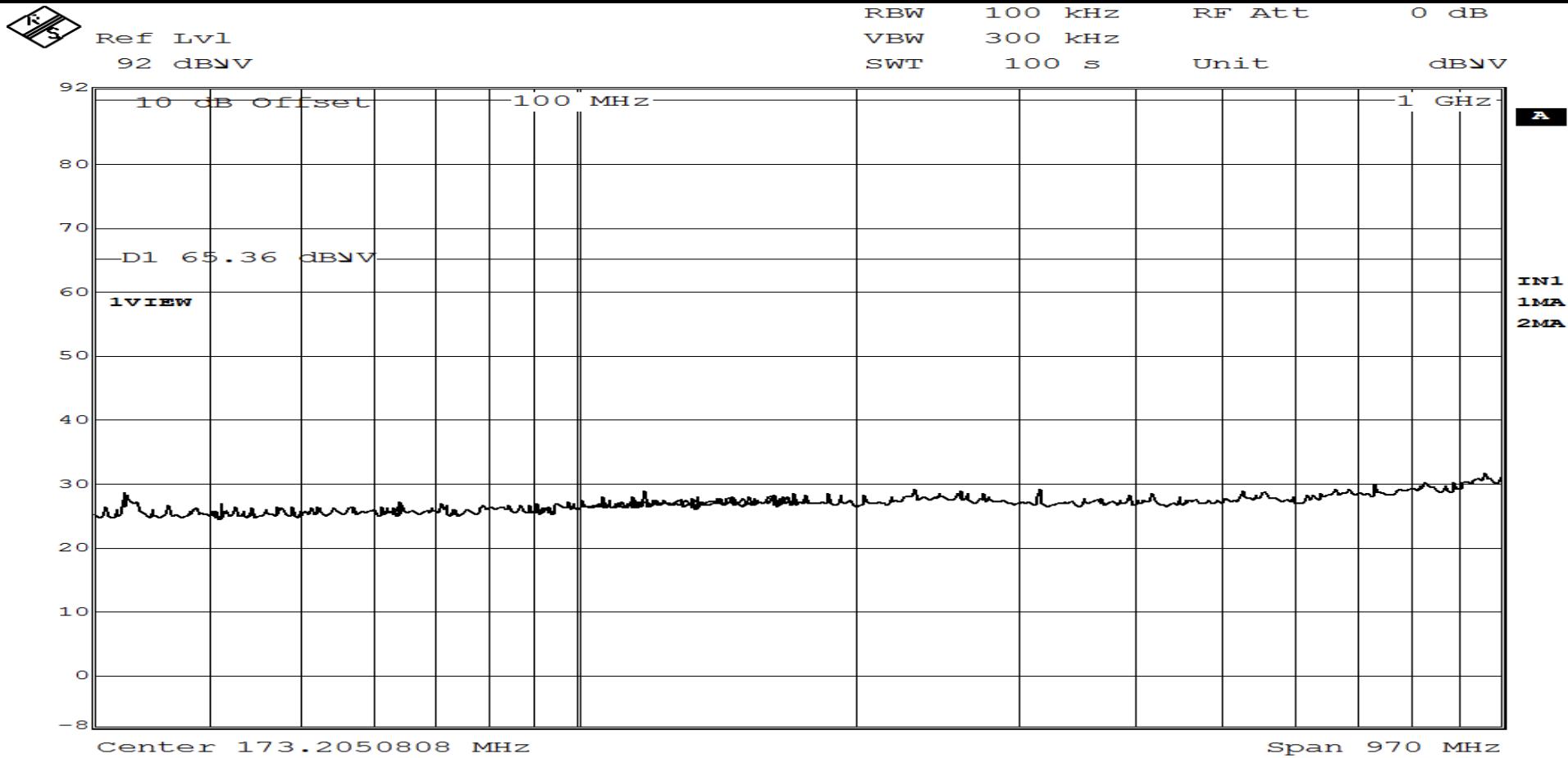
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|----------------------------|---|-------------------|----------------------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.405 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12 th , 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 65.36dBuV, Based off of Reference Reading of 85.36dBuV | | |



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RETLIF TESTING LABORATORIES

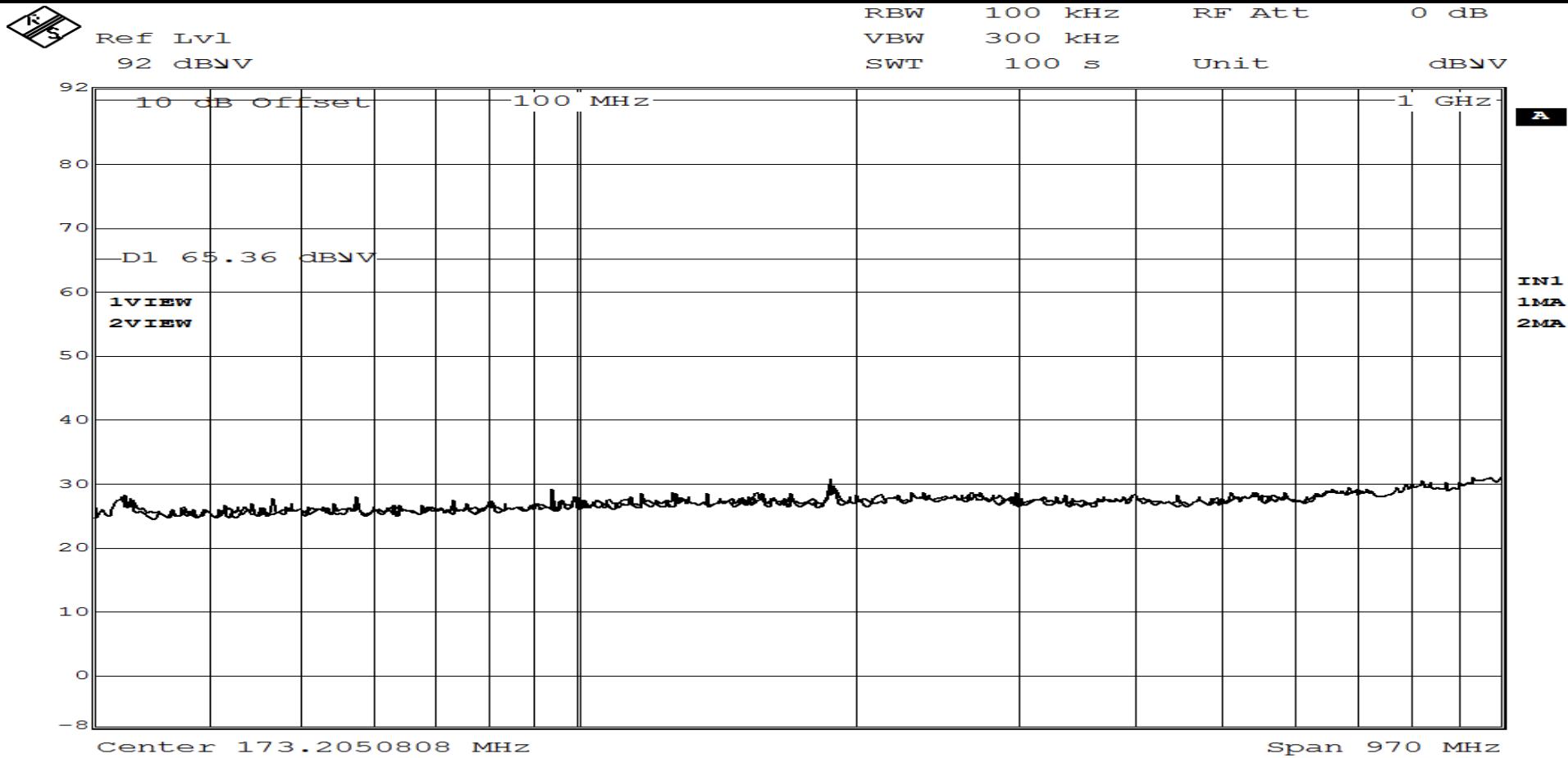
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|----------------------------|--|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.440 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 65.36dB _{UV} , Based off of Reference Reading of 85.36dB _{UV} | | |



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RETLIF TESTING LABORATORIES

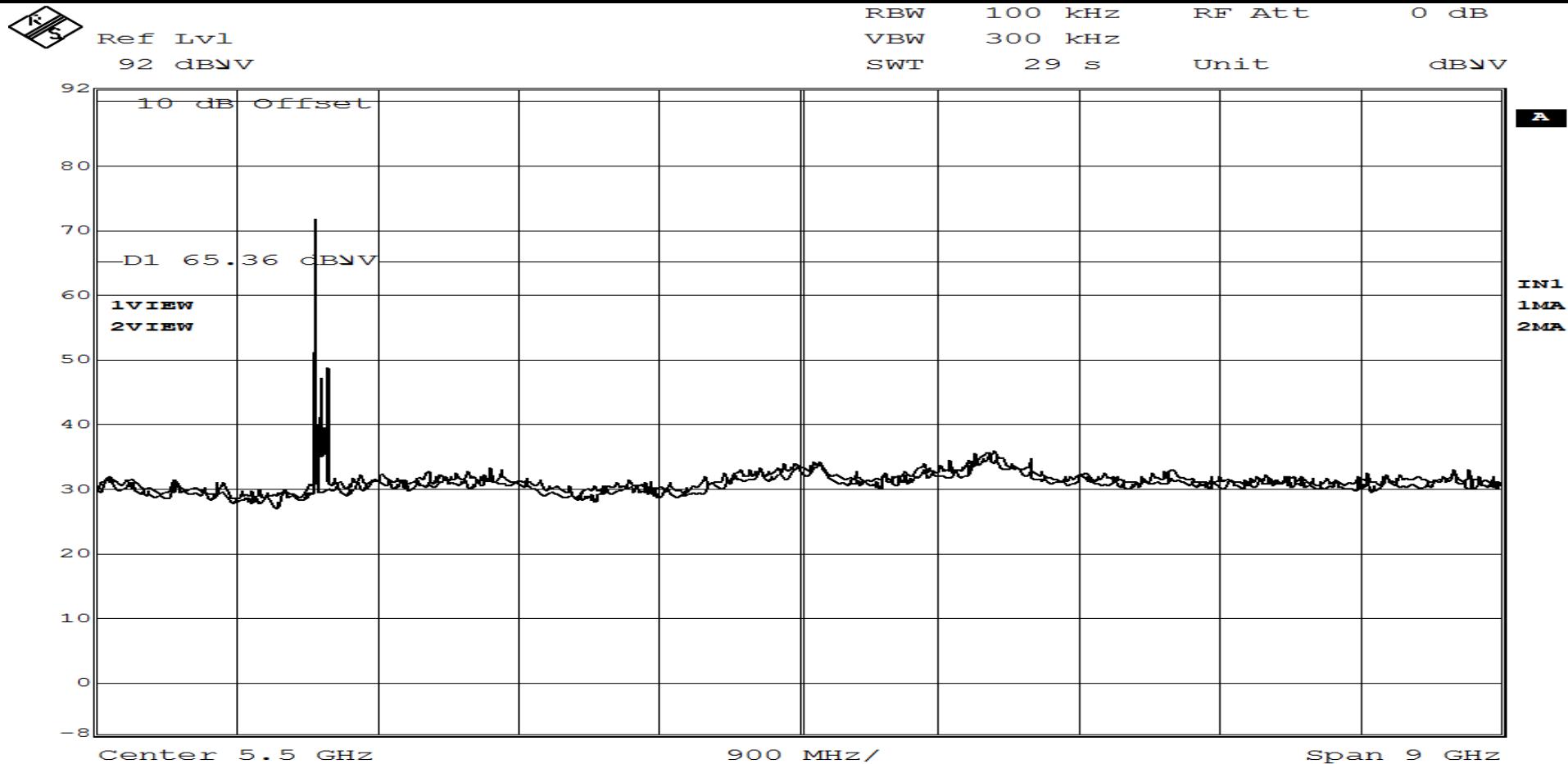
| | | | |
|----------------------------|--|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.480 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 65.36dB _{UV} , Based off of Reference Reading of 85.36dB _{UV} | | |



Date: 11 . DEC . 2014 13 : 03 : 29
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RETLIF TESTING LABORATORIES

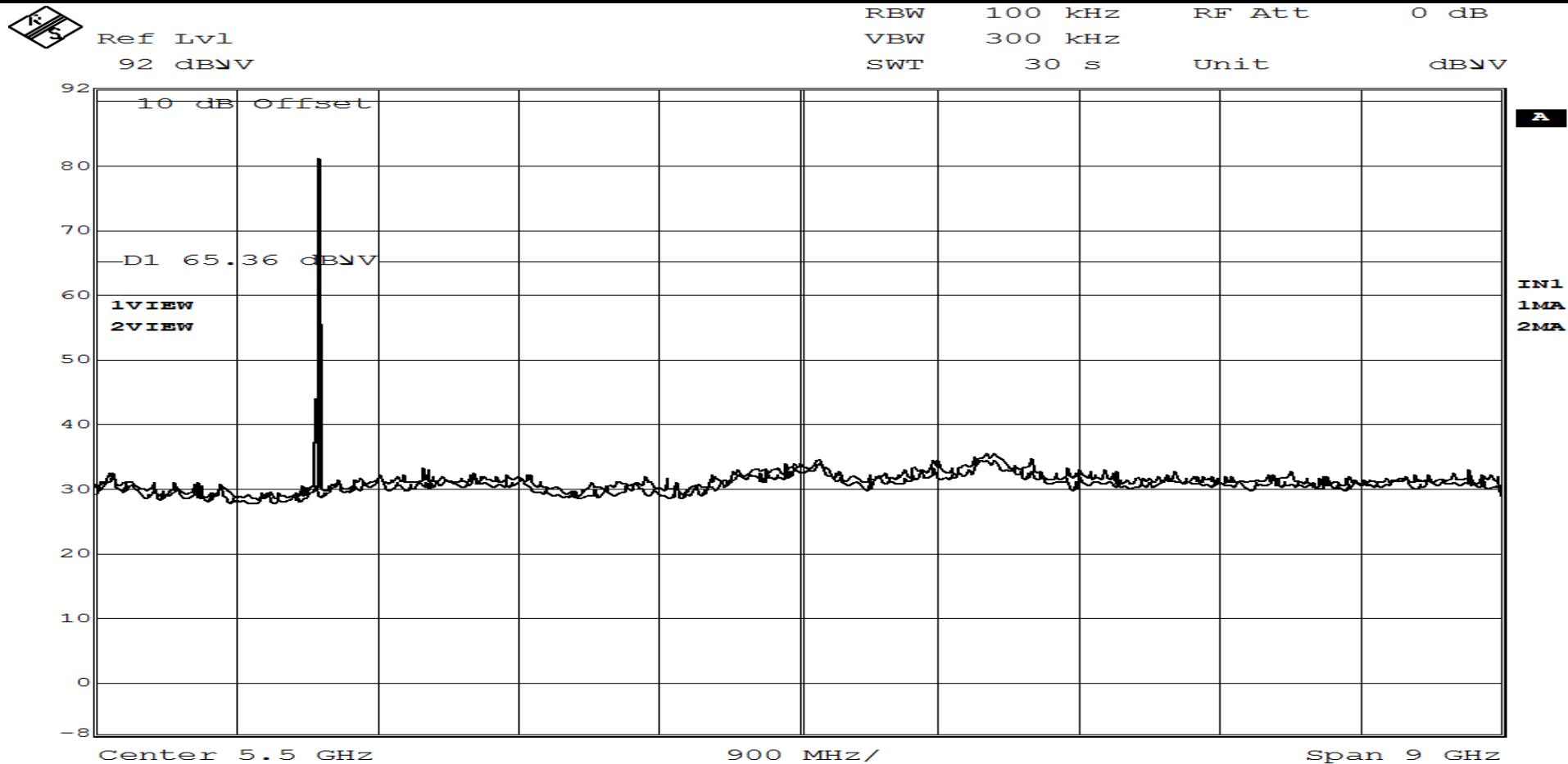
| | | | |
|----------------------------|--|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.405 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 65.36dB _{UV} , Based off of Reference Reading of 85.36dB _{UV} | | |



Date: 11.DEC.2014 13:24:17
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RETLIF TESTING LABORATORIES

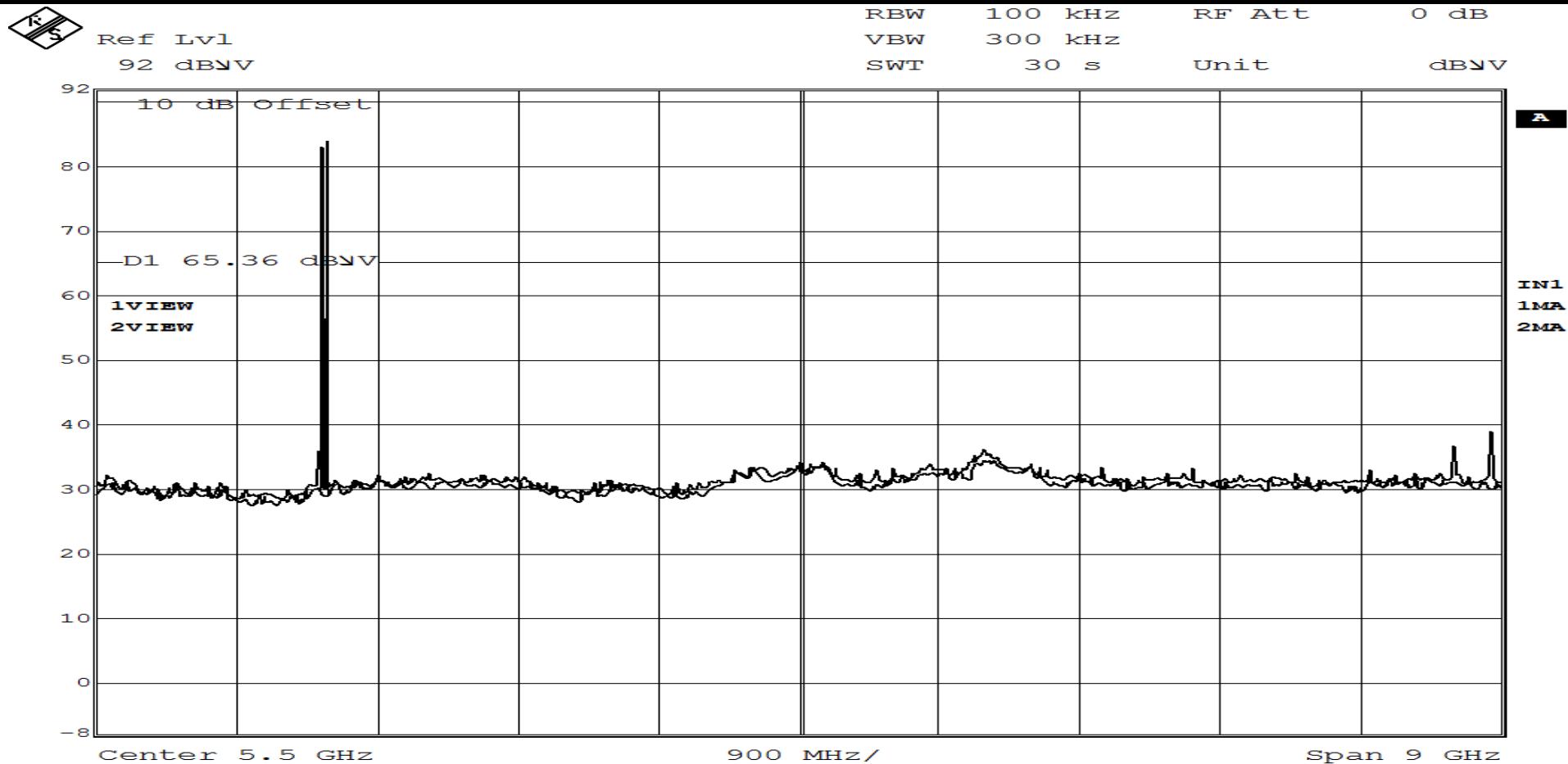
| | | | |
|----------------------------|--|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.440 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 65.36dB _{UV} , Based off of Reference Reading of 85.36dB _{UV} | | |



Date: 11.DEC.2014 13:33:23
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RETLIF TESTING LABORATORIES

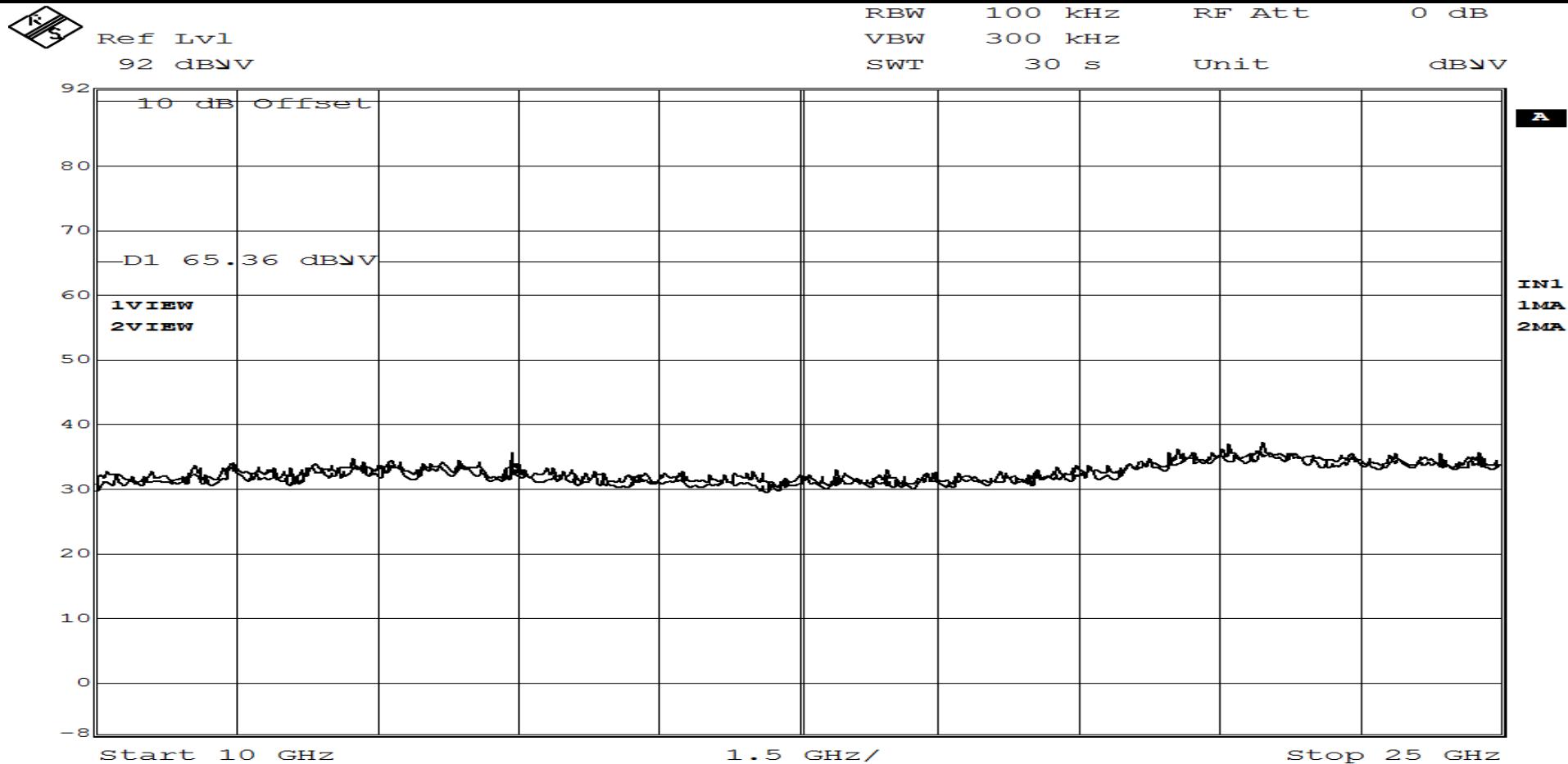
| | | | |
|----------------------------|--|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.480 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 65.36dB _{UV} , Based off of Reference Reading of 85.36dB _{UV} | | |



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RETLIF TESTING LABORATORIES

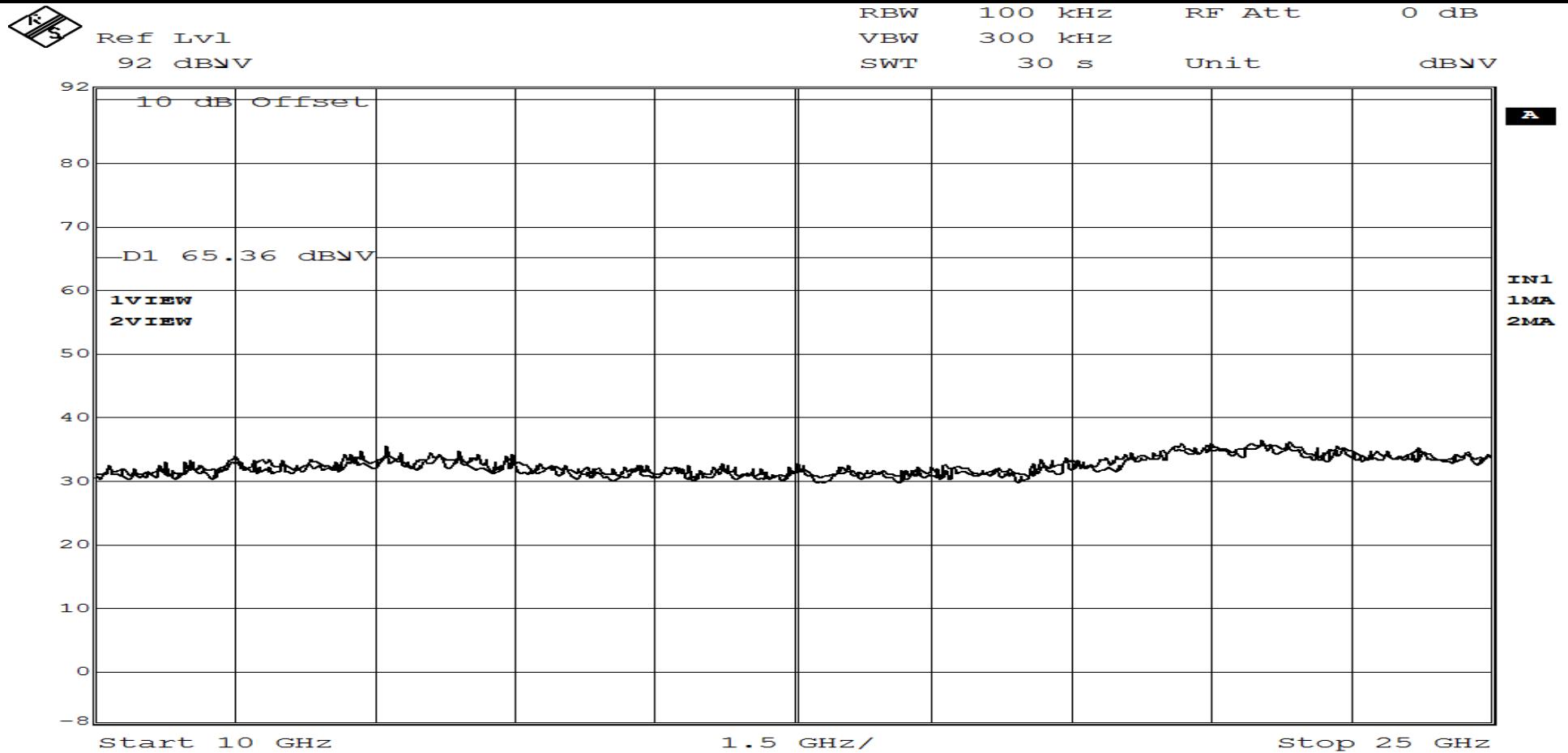
| | | | |
|----------------------------|--|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.405 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 65.36dB _{UV} , Based off of Reference Reading of 85.36dB _{UV} | | |



Date: 11.DEC.2014 13:45:13
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RETLIF TESTING LABORATORIES

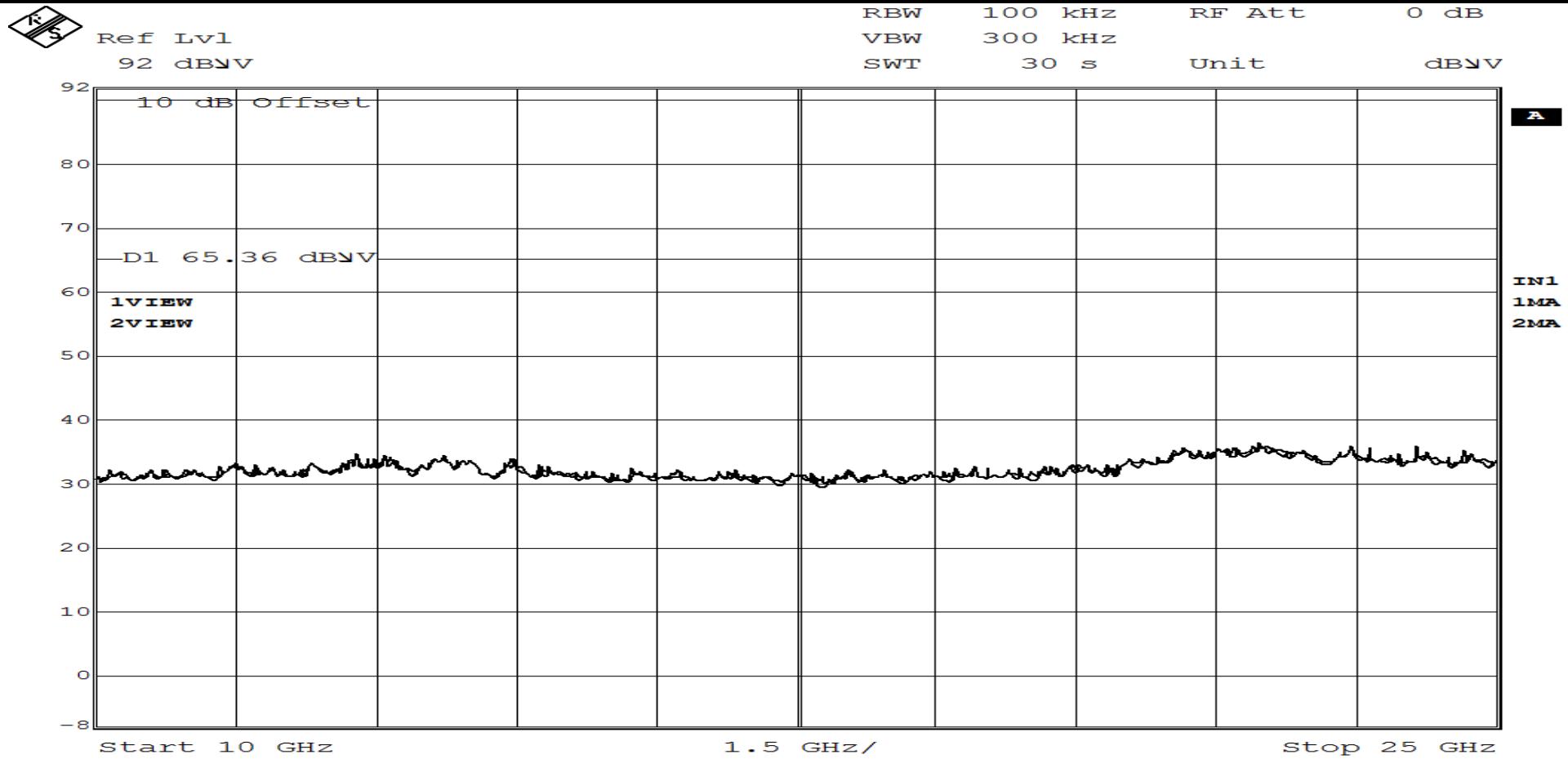
| | | | |
|----------------------------|--|---------------------------|----------------------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.440 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12 th , 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: 23.0 % | |
| Notes | Limit: 65.36dB _{UV} , Based off of Reference Reading of 85.36dB _{UV} | | |



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RETLIF TESTING LABORATORIES

| | | | |
|----------------------------|--|---------------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal at 2.480 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: 23.0 % | |
| Notes | Limit: 65.36dB _{UV} , Based off of Reference Reading of 85.36dB _{UV} | | |



Date: 11.DEC.2014 13:55:01
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**Out of Band Conducted Emissions
SORTD Test Data**

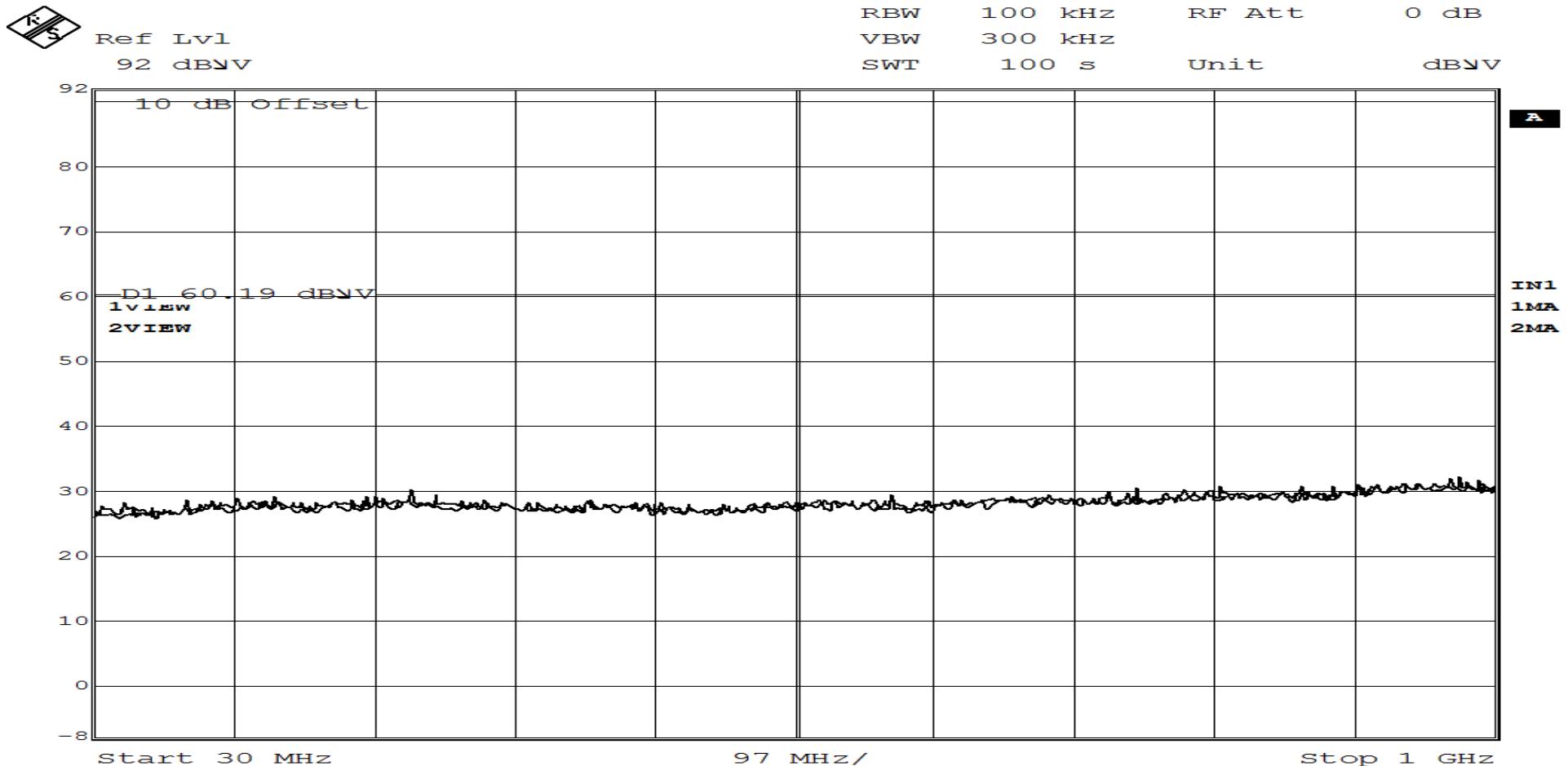


Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

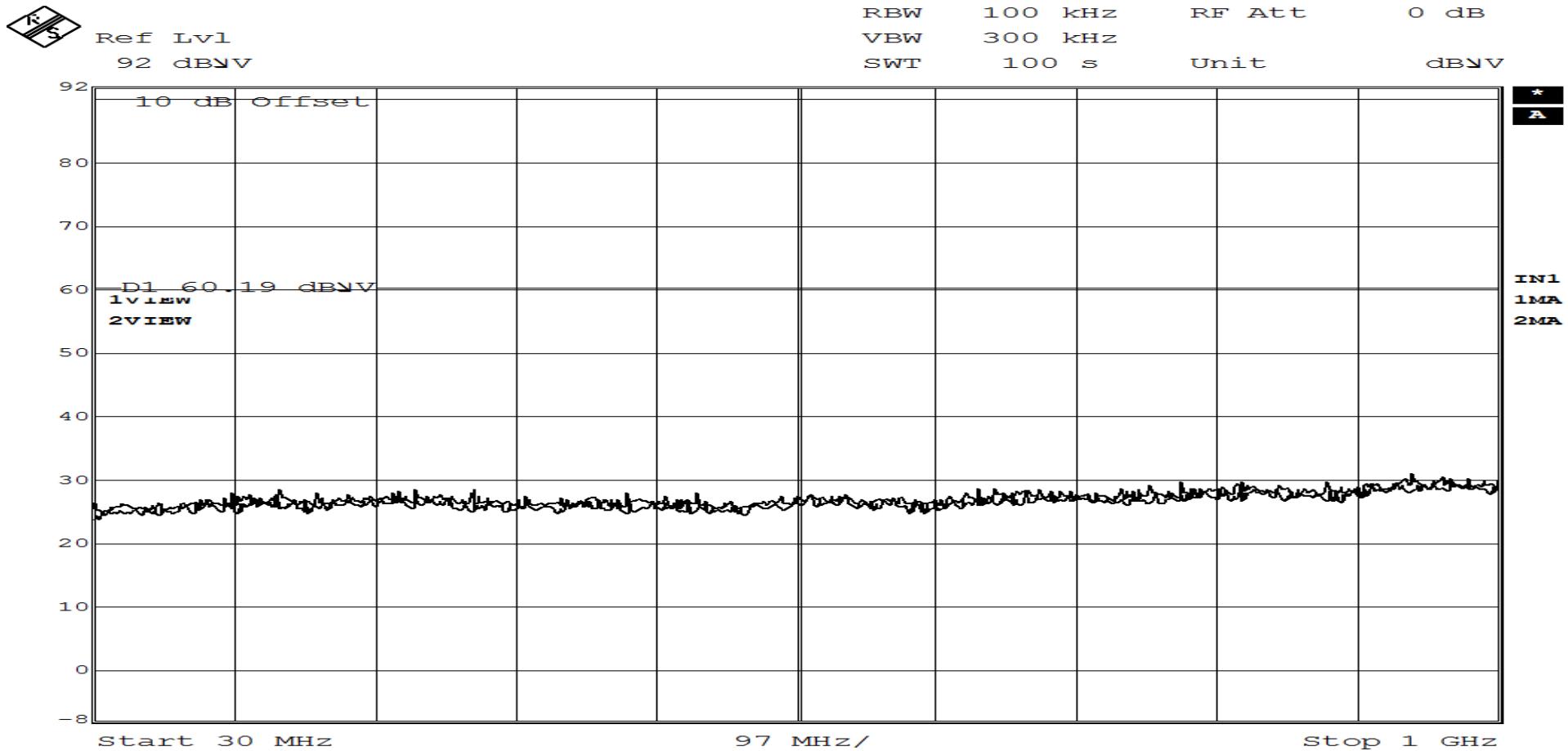
| | | | |
|----------------------------|---|---------------------------|----------------------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.405 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12 th , 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: 23.0 % | |
| Notes | Limit: 60.19dBuV, Based off of Reference Reading of 80.19dBuV | | |



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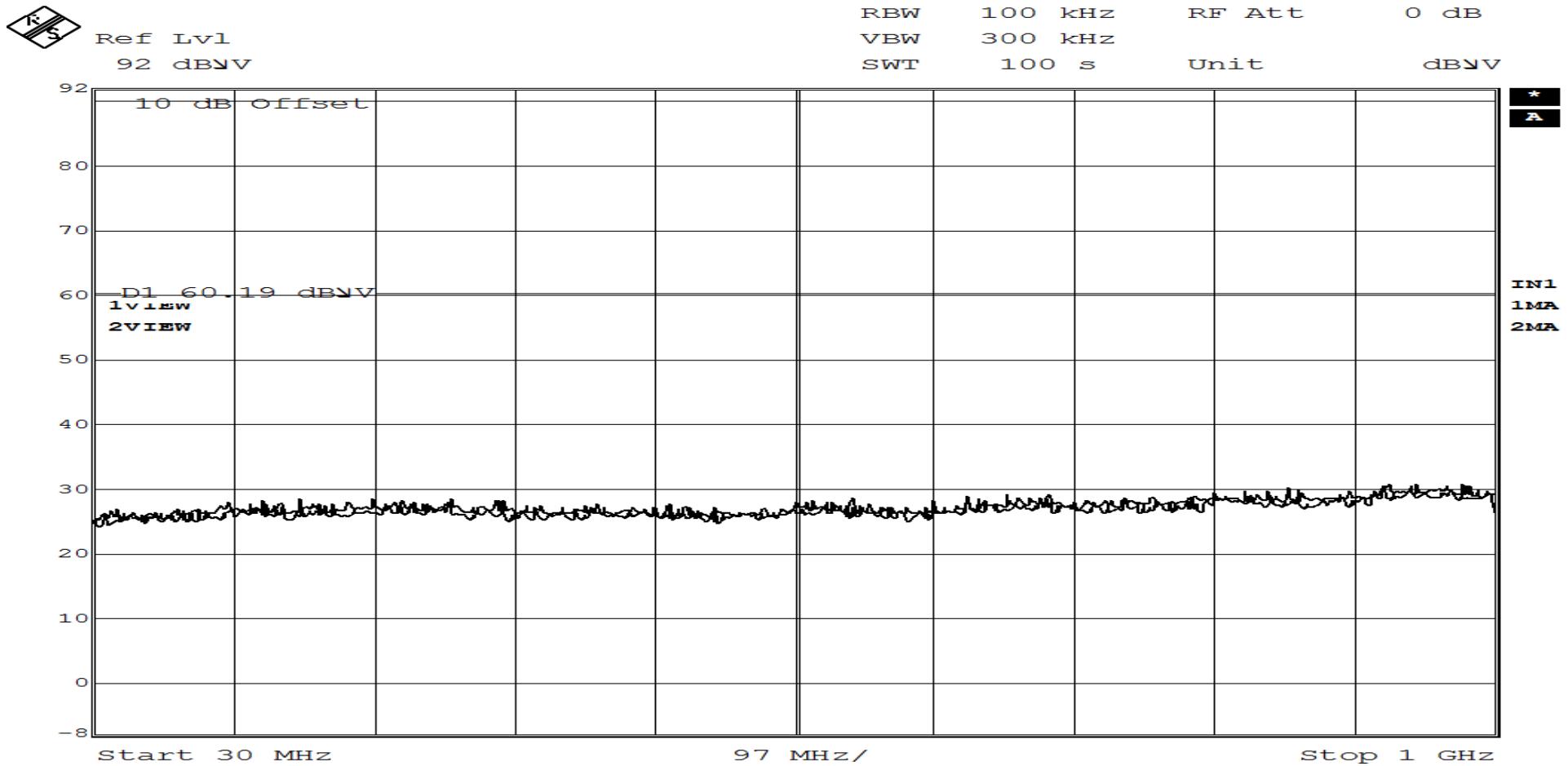
RETLIF TESTING LABORATORIES

| | | | |
|----------------------------|---|---------------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.440 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: 23.0 % | |
| Notes | Limit: 60.19dBuV, Based off of Reference Reading of 80.19dBuV | | |



RETLIF TESTING LABORATORIES

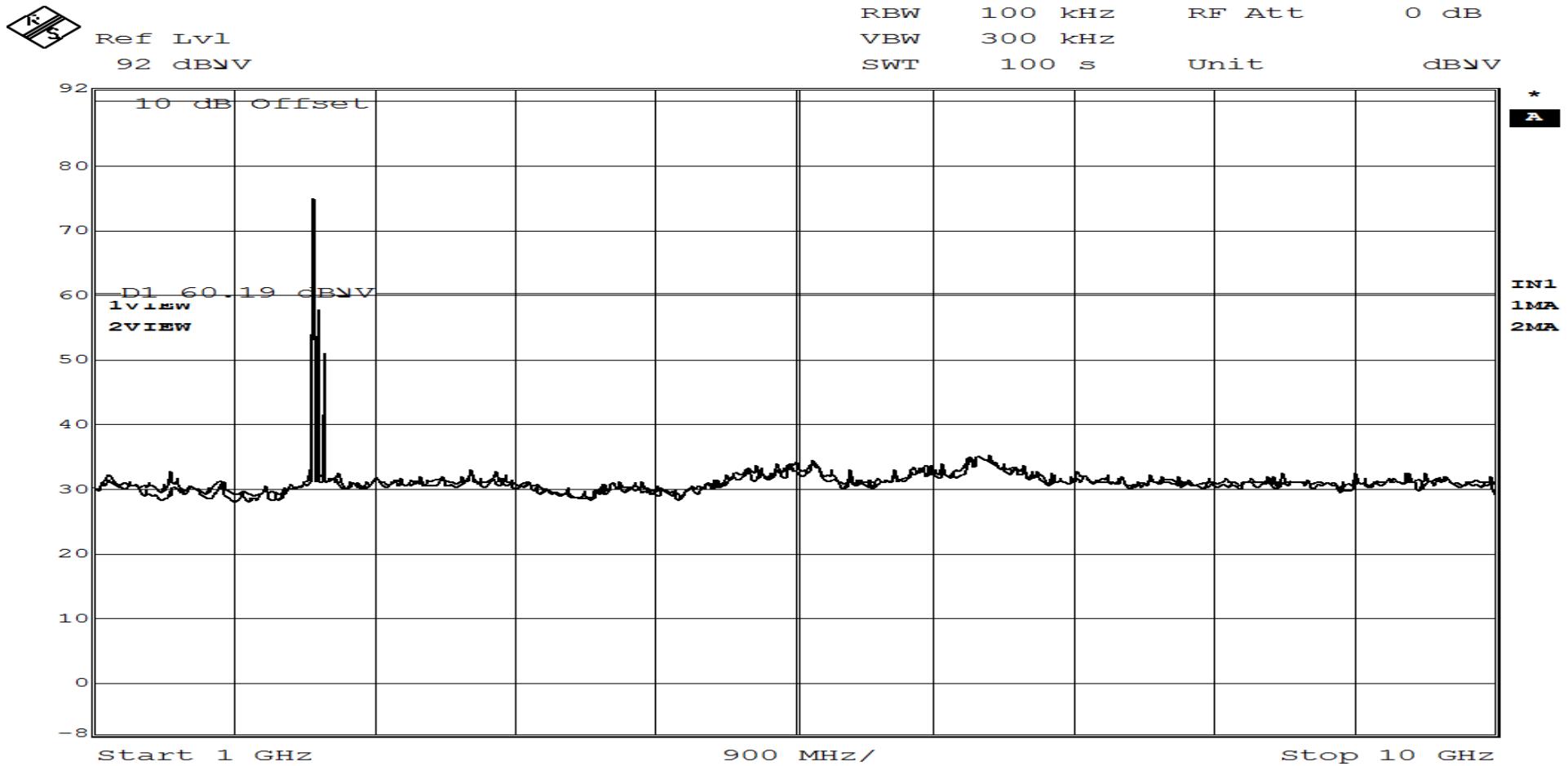
| | | | |
|----------------------------|---|---------------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.480 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: 23.0 % | |
| Notes | Limit: 60.19dBuV, Based off of Reference Reading of 80.19dBuV | | |



Date: 12 . DEC . 2014 11 : 13 : 27
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RETLIF TESTING LABORATORIES

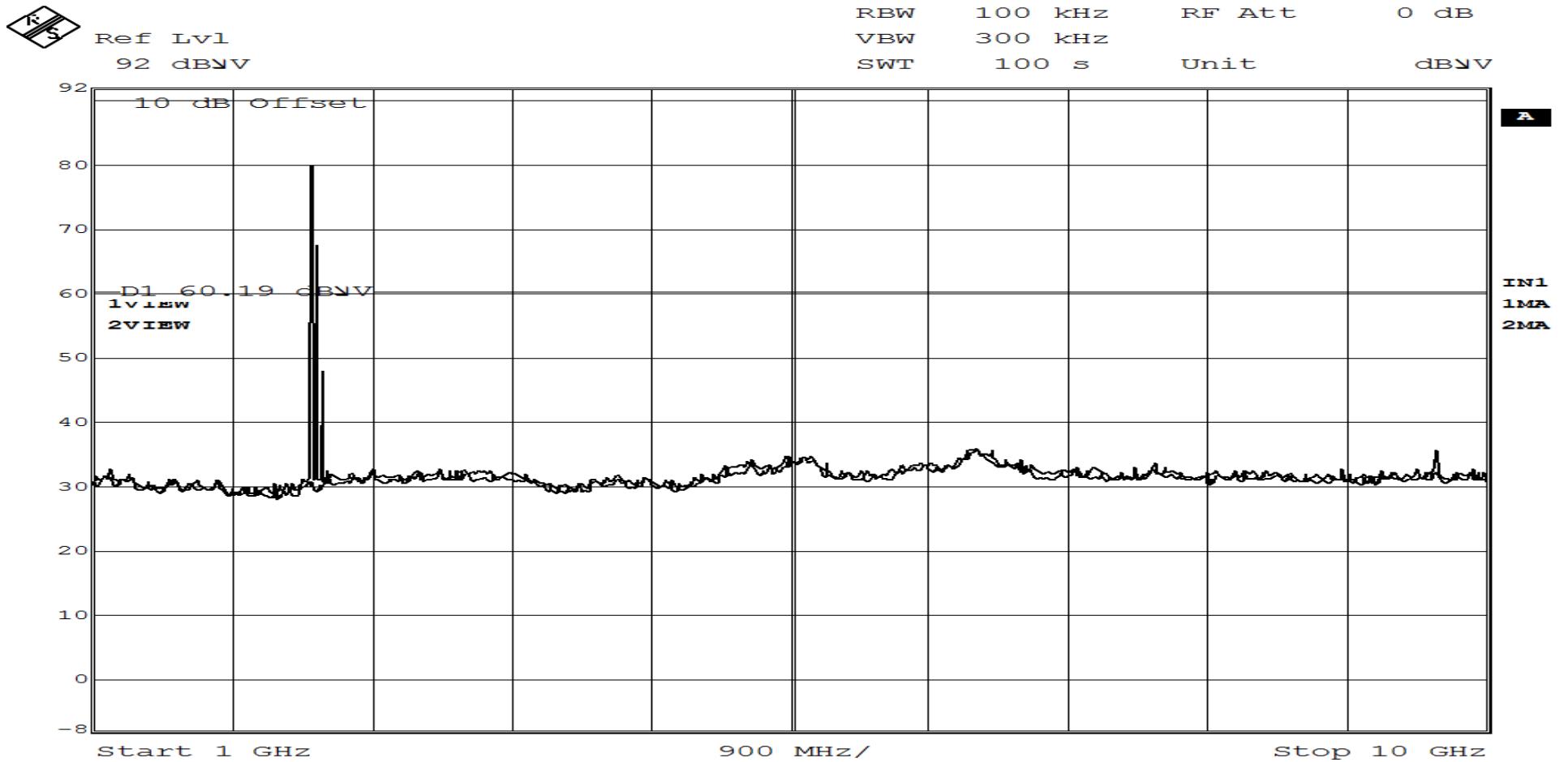
| | | | |
|----------------------------|---|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.405 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 60.19dBuV, Based off of Reference Reading of 80.19dBuV | | |



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RETLIF TESTING LABORATORIES

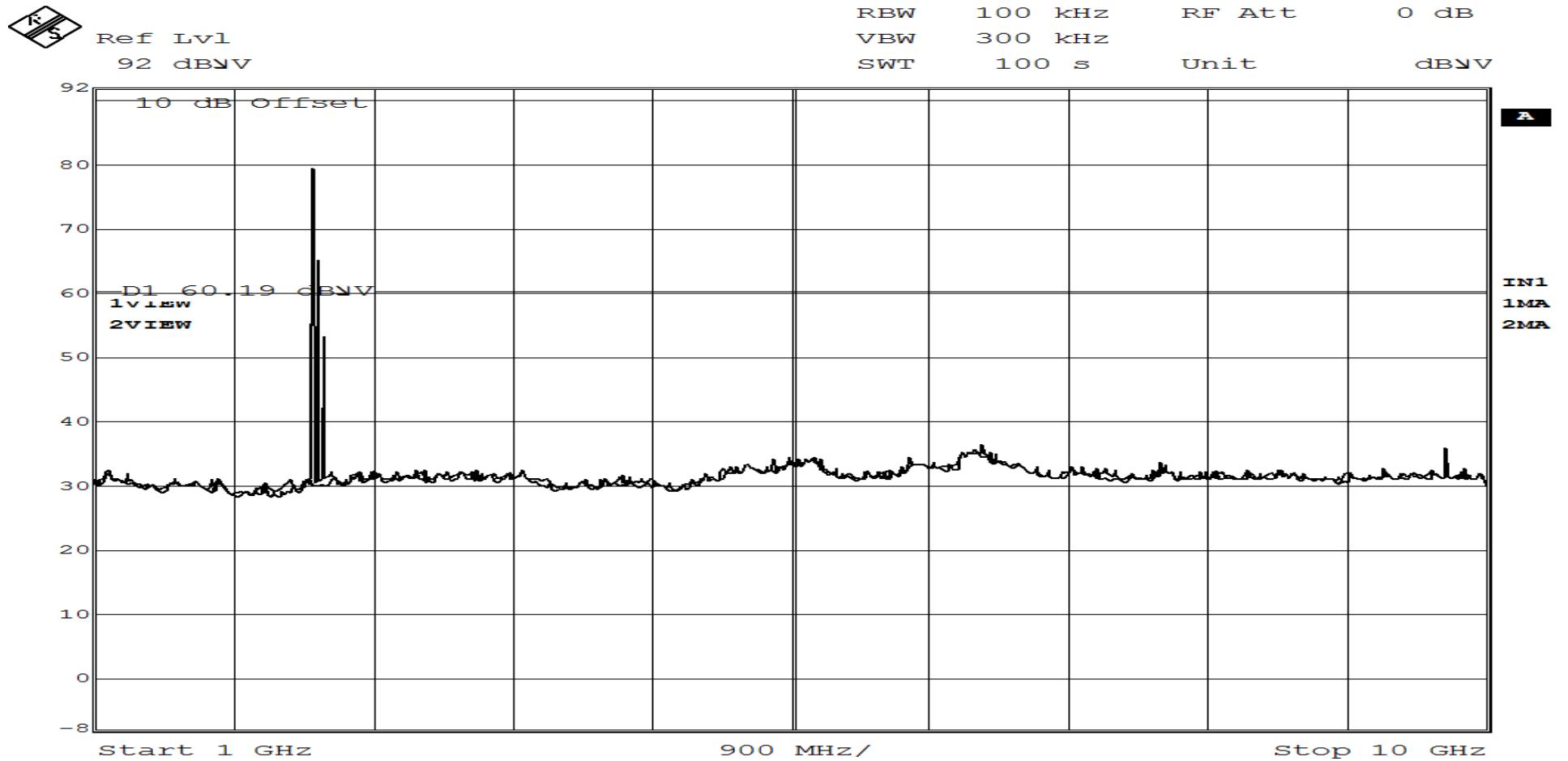
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|----------------------------|---|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.440 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 60.19dBuV, Based off of Reference Reading of 80.19dBuV | | |



Date: 12 . DEC . 2014 11 : 35 : 11
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RETLIF TESTING LABORATORIES

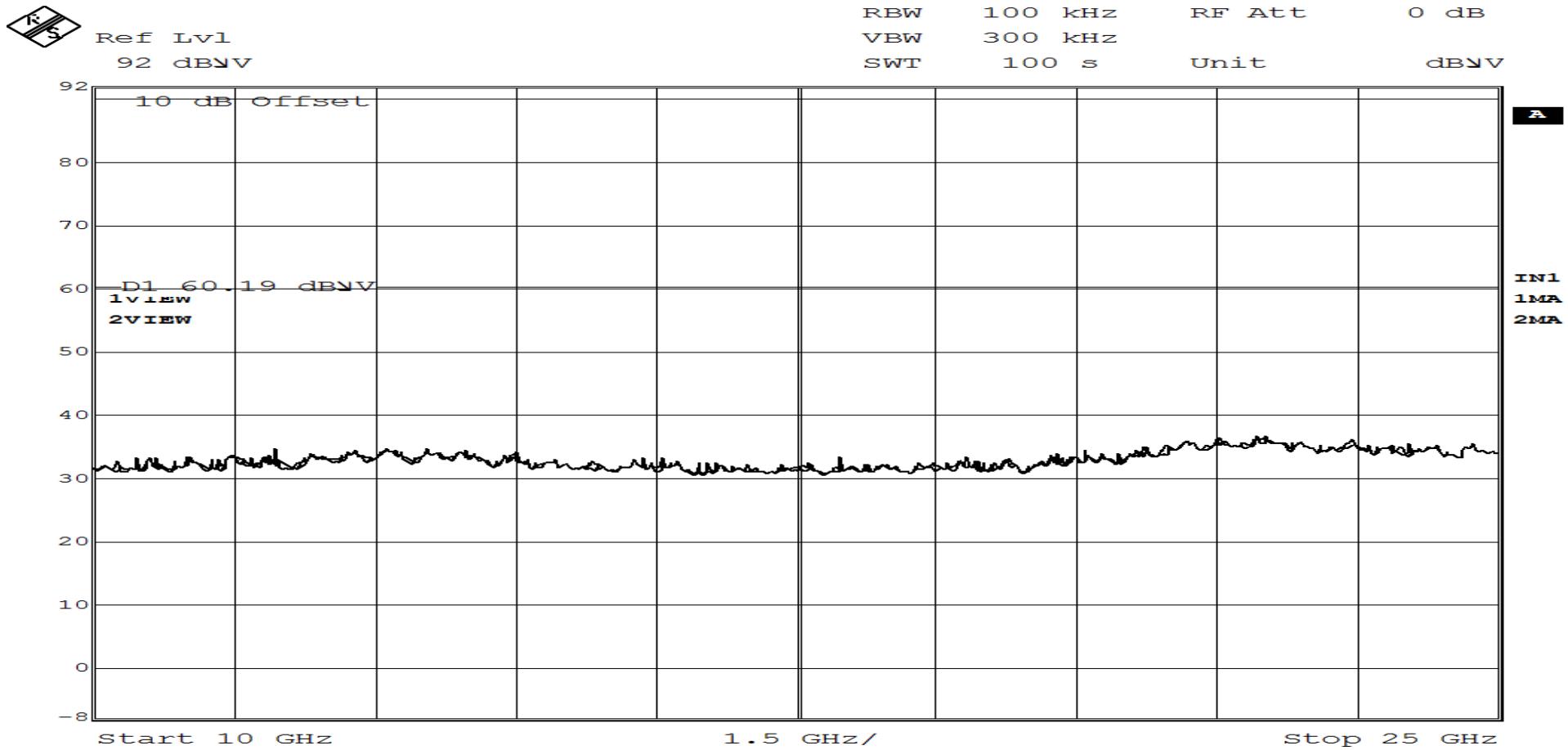
| | | | |
|----------------------------|---|---------------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.480 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: 23.0 % | |
| Notes | Limit: 60.19dBuV, Based off of Reference Reading of 80.19dBuV | | |



Date: 12 . DEC . 2014 11 : 43 : 37
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RETLIF TESTING LABORATORIES

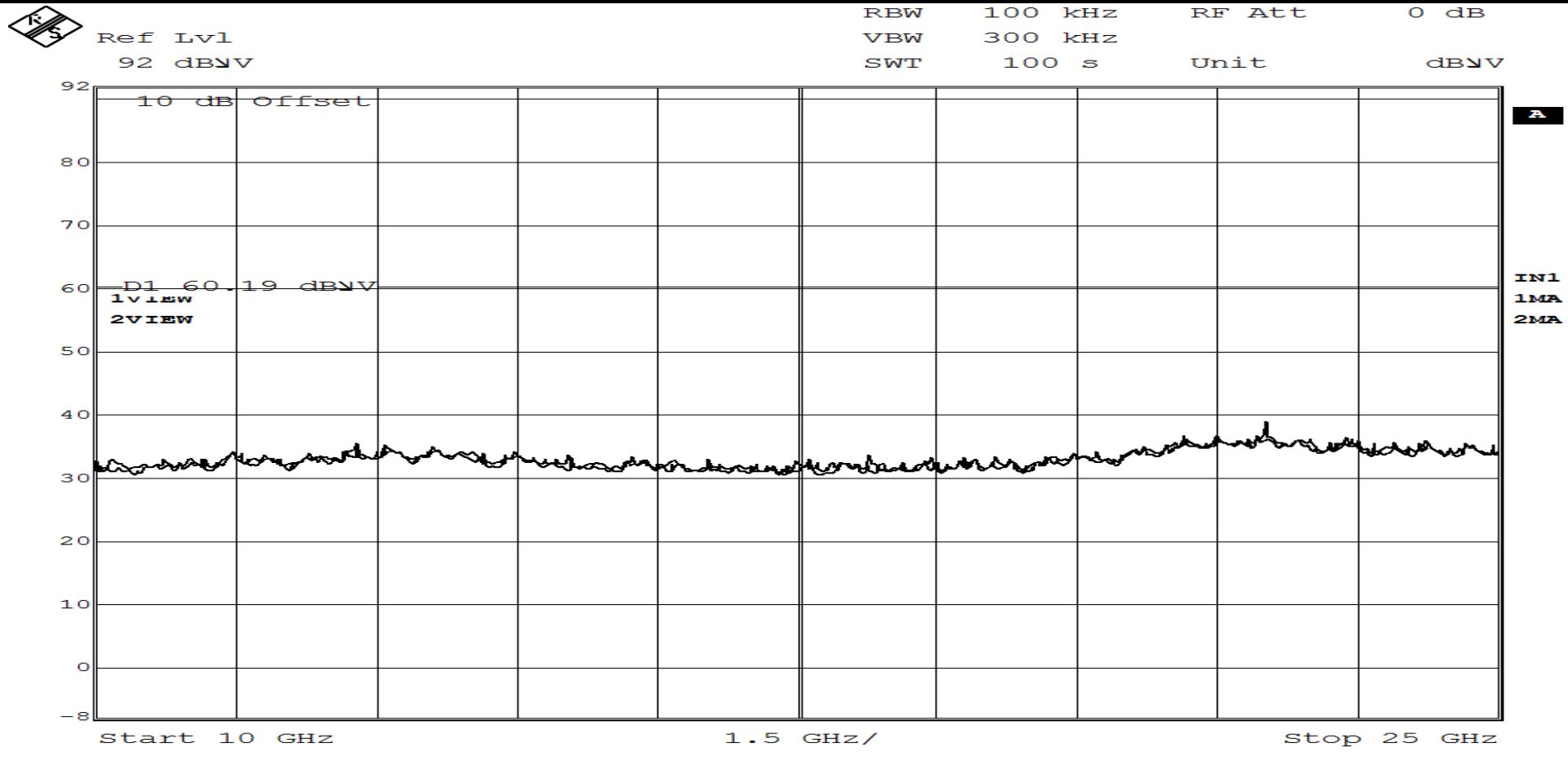
| | | | |
|----------------------------|---|---------------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.405 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: 23.0 % | |
| Notes | Limit: 60.19dBuV, Based off of Reference Reading of 80.19dBuV | | |



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RETLIF TESTING LABORATORIES

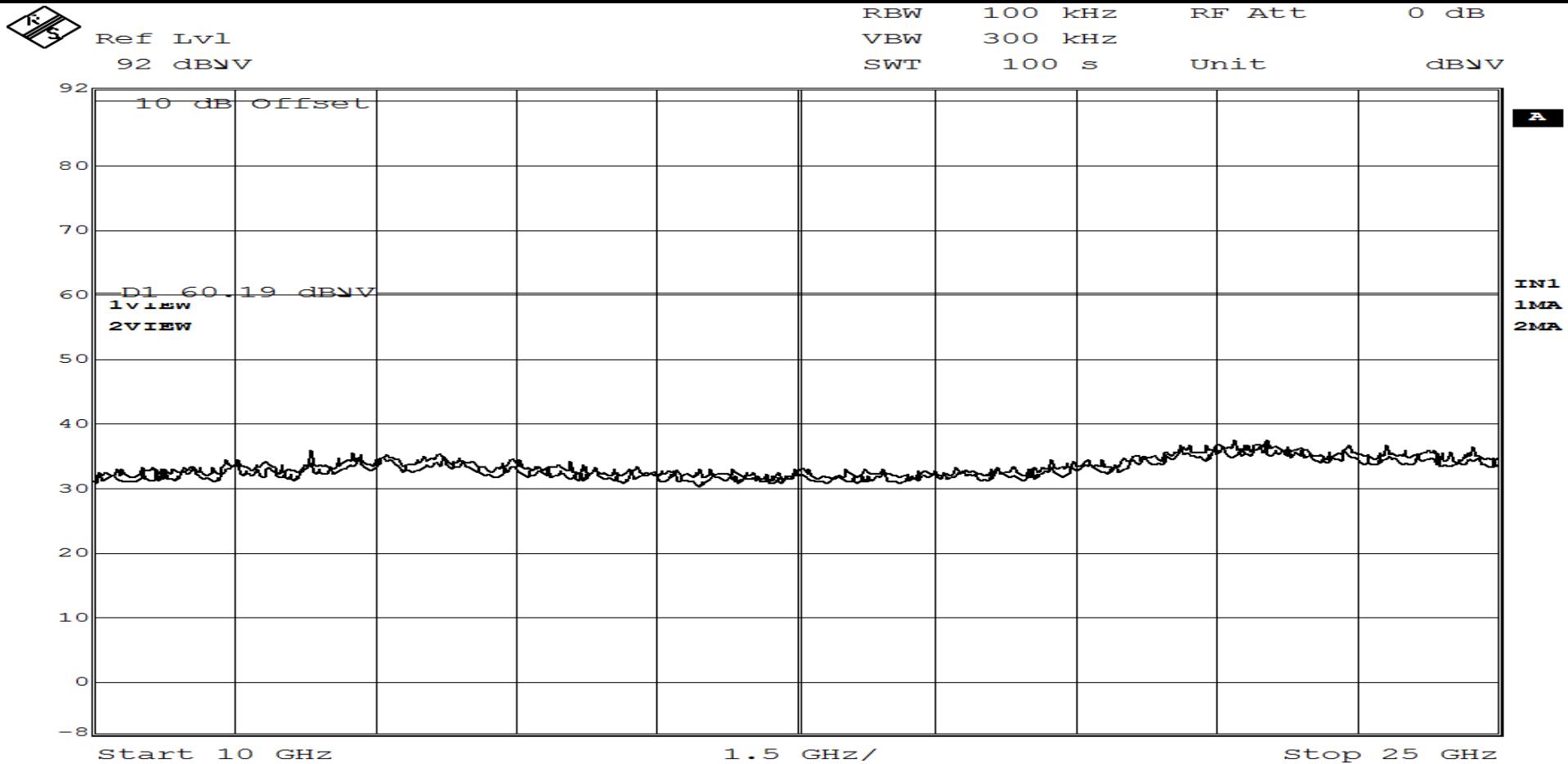
| | | | |
|----------------------------|---|---------------------------|----------------------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.440 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12 th , 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: 23.0 % | |
| Notes | Limit: 60.19dBuV, Based off of Reference Reading of 80.19dBuV | | |



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RETLIF TESTING LABORATORIES

| | | | |
|----------------------------|--|-------------------|---------------------|
| Test Method: | Out of Band Conducted Emissions 30 MHz to 25 GHz | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal at 2.480 GHz | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Limit: 60.19dB _V , Based off of Reference Reading of 80.19dB _V | | |



Date: 12.DEC.2014 13:13:32
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**Band Edge Conducted
DMC2000TD Test Data**

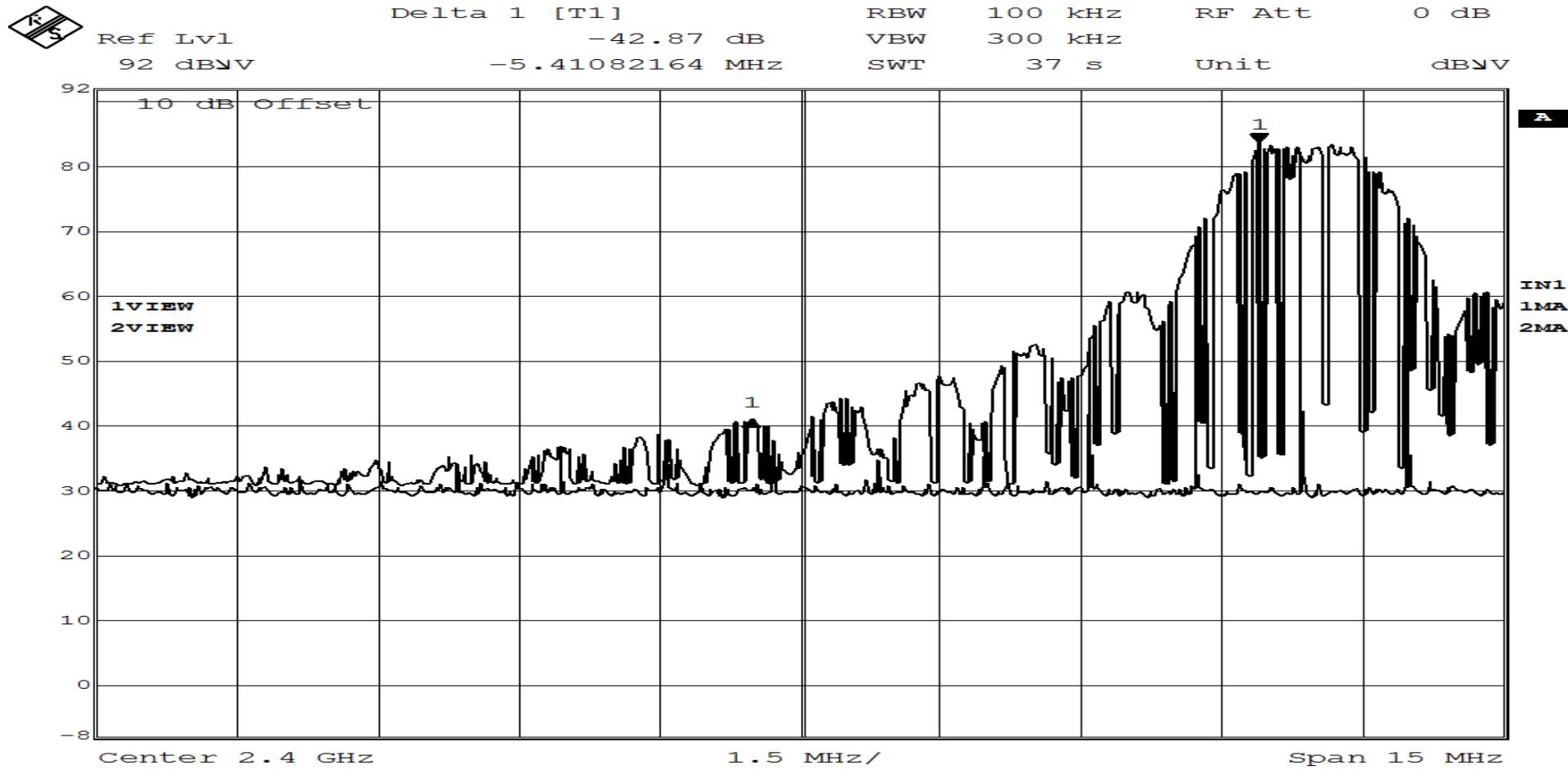


Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

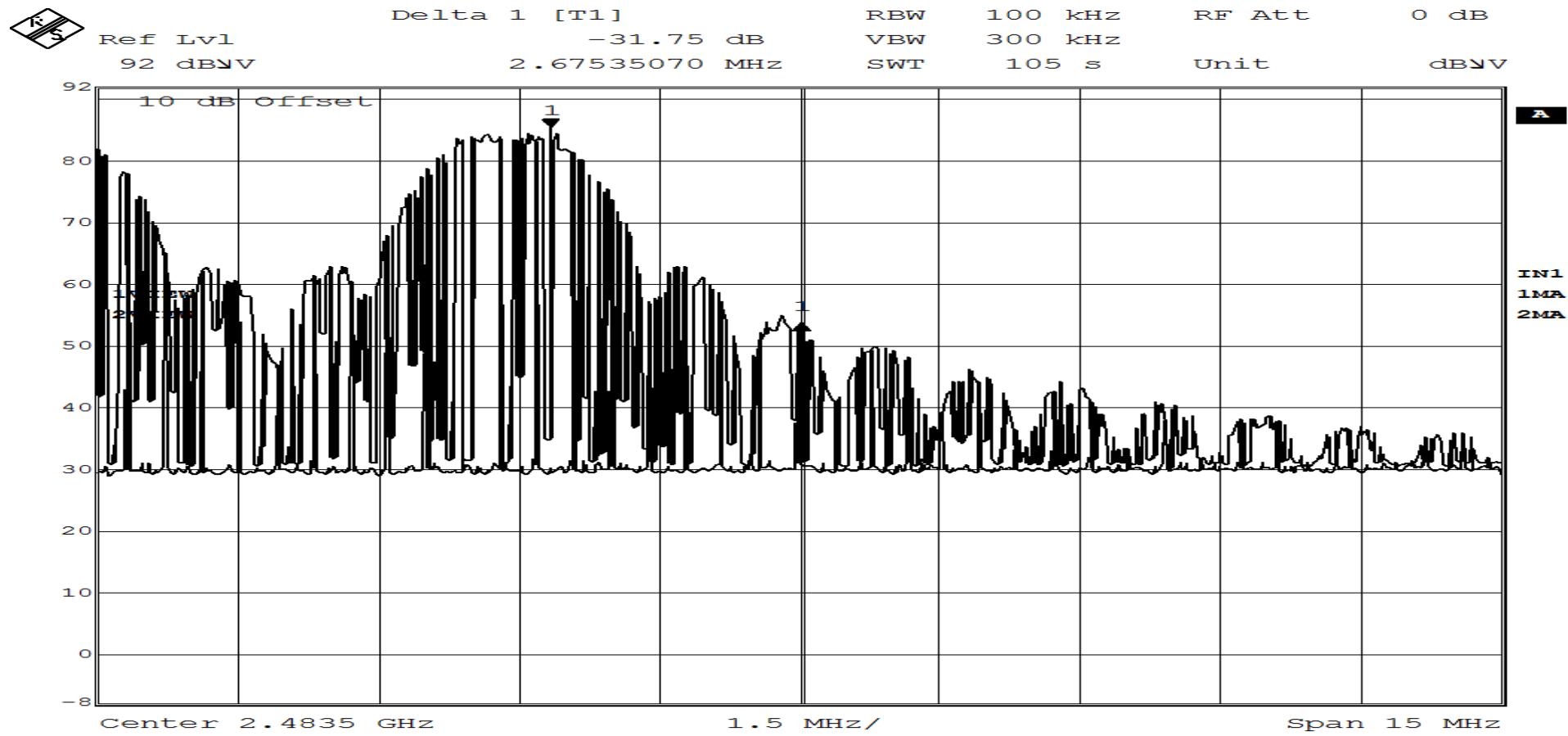
| | | | |
|---------------------|--|------------|----------------------------------|
| Test Method: | Band Edge Conducted | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12 th , 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Lower Band Edge Reading: -42.87dB from Reference Reading | | |



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RETLIF TESTING LABORATORIES

| | | | |
|---------------------|--|------------|---------------------|
| Test Method: | Band Edge Conducted | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010001 |
| Operating Mode | Transmitting modulated signal | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Upper Band Edge Reading: -31.75 from Reference Reading | | |



Date:
Page 2 of 2

**Band Edge Conducted
SORTD Test Data**

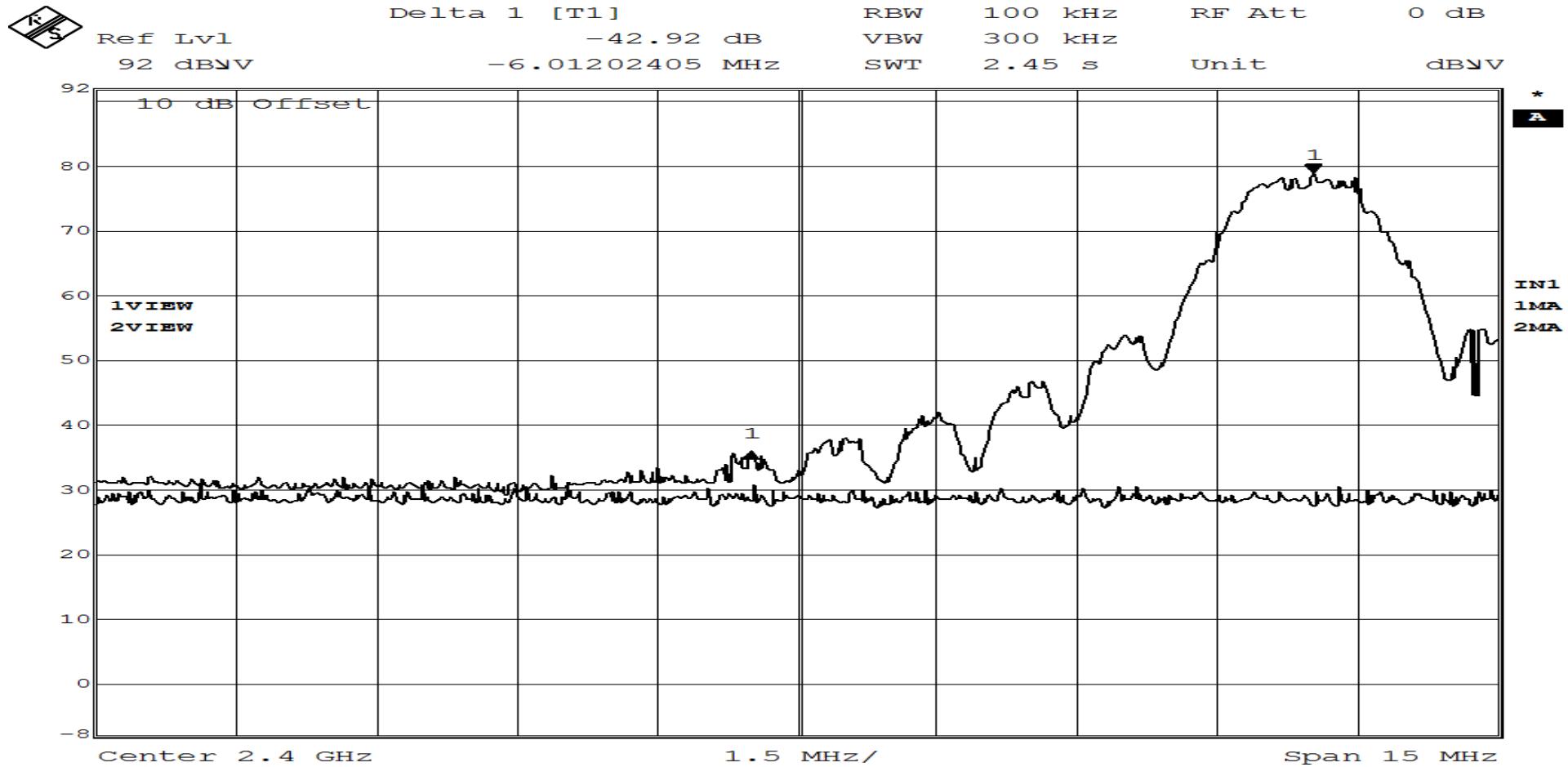


Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

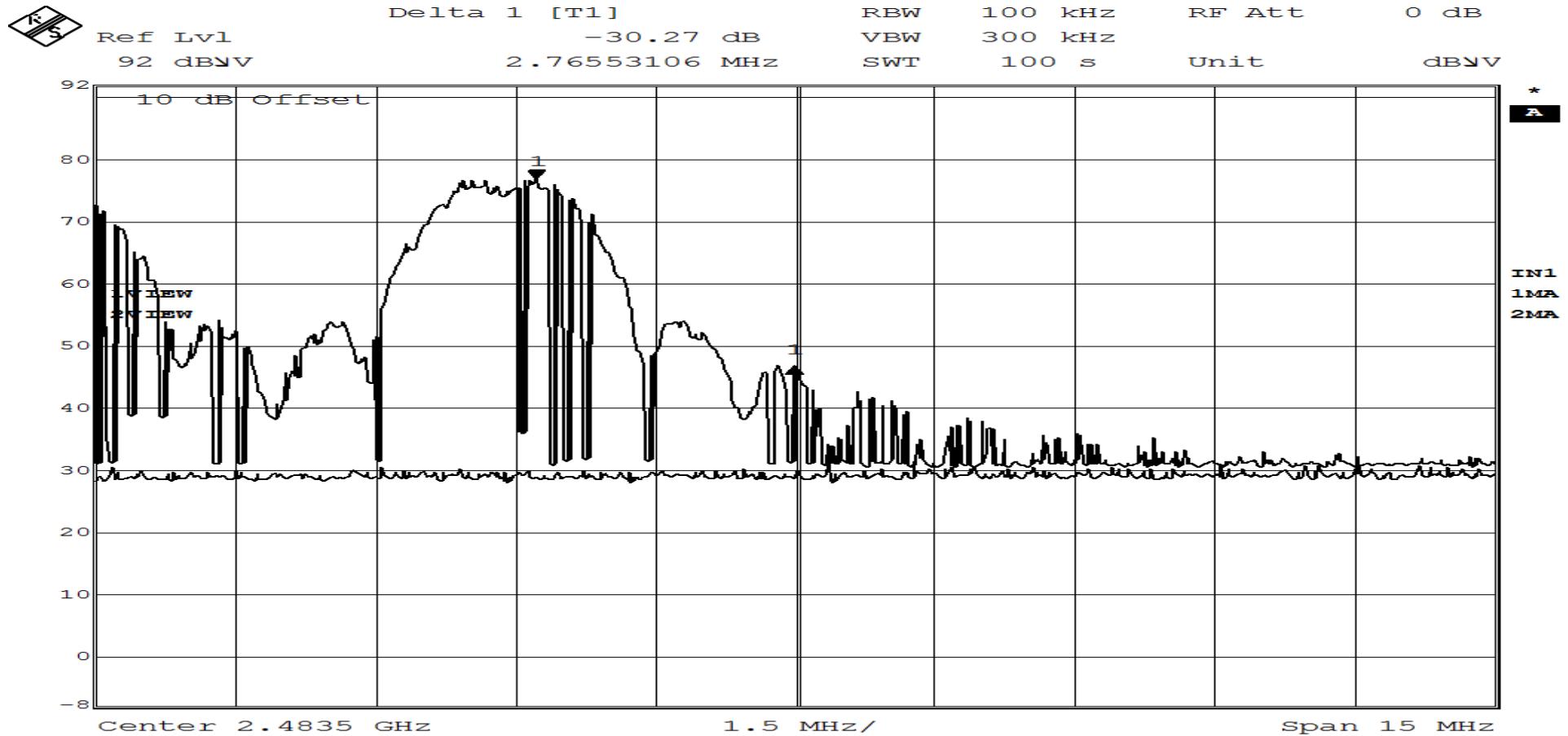
| | | | |
|---------------------|--|--------------------|----------------------------------|
| Test Method: | Band Edge Conducted | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12 th , 2014 |
| Climatic Conditions | Temp: 22.0 °C | Relative Humidity: | 23.0 % |
| Notes | Lower Band Edge Reading: -42.92dB from Reference Reading | | |



Date: 12 . DEC . 2014 10 : 18 : 03
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RETLIF TESTING LABORATORIES

| | | | |
|---------------------|--|------------|---------------------|
| Test Method: | Band Edge Conducted | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | |
| Operating Mode | Transmitting modulated signal | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 12th, 2014 |
| Climatic Conditions | Temp: 22.0 °C Relative Humidity: 23.0 % | | |
| Notes | Upper Band Edge Reading: -30.27 from Reference Reading | | |



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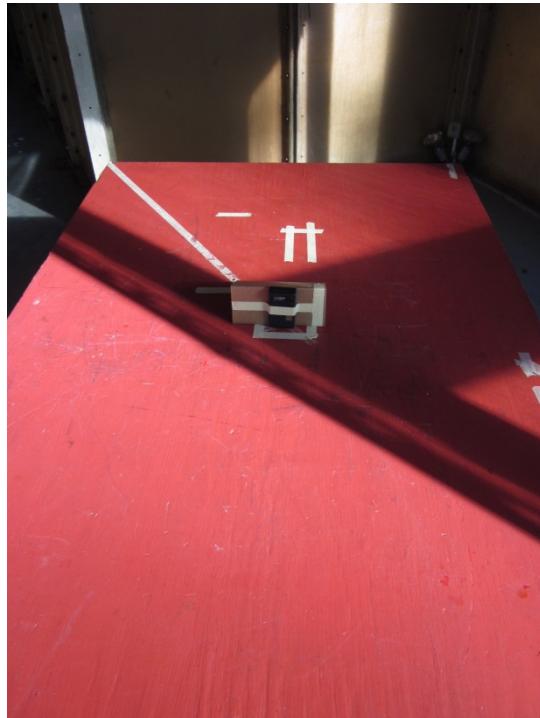
**Test Photograph(s)
Out of Band/Band Edge Radiated Emissions
FCC Section 15.247(d)**



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



Test Setup, DMC2000TD



Test Setup, SORTD



Retlif Testing Laboratories

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Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



30 MHz – 200 MHz, Horizontal Polarization, DMC2000TD



30 MHz – 200 MHz, Vertical Polarization, DMC2000TD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



30 MHz – 200 MHz, Horizontal Polarization, SORTD



30 MHz – 200 MHz, Vertical Polarization, SORTD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



200 MHz – 1 GHz, Horizontal Polarization, DMC2000TD



200 MHz – 1 GHz, Vertical Polarization, DMC2000TD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



200 MHz – 1 GHz, Horizontal Polarization, SORTD



200 MHz – 1 GHz, Vertical Polarization, SORTD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



1 GHz – 18 GHz, Horizontal Polarization, DMC2000TD



1 GHz – 18 GHz, Vertical Polarization, DMC2000TD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



1 GHz – 18 GHz, Horizontal Polarization, SORTD



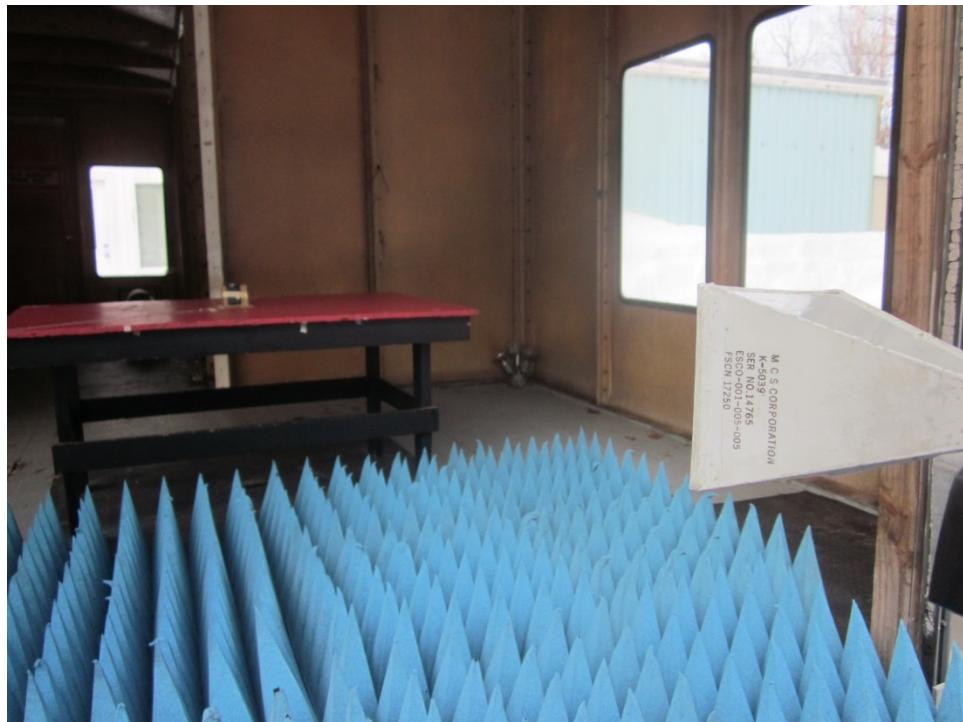
1 GHz – 18 GHz, Vertical Polarization, SORTD



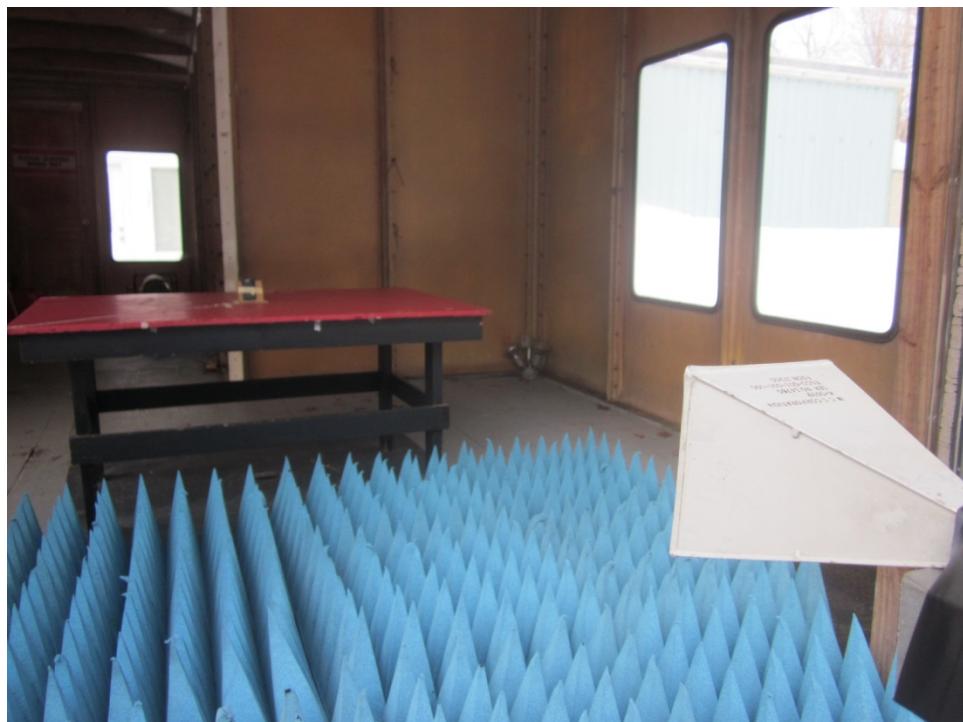
Retlif Testing Laboratories

Report No. R-5908N, Rev. B

Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



18 GHz – 25 GHz, Horizontal Polarization, DMC2000TD



18 GHz – 25 GHz, Vertical Polarization, DMC2000TD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

Test Photograph(s)
Out of Band/Band Edge Radiated Emissions



18 GHz – 25 GHz, Horizontal Polarization, SORTD



18 GHz – 25 GHz, Vertical Polarization, SORTD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Unwanted Emissions into Restricted Frequency Bands
30 MHz to 25 GHz
Test Data**



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Restricted Band Emissions
30 MHz to 25 GHz
DMC2000TD Test Data**



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|--|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Model Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 37.5 | - | - | - | - | | | - | 100 |
| | 38.00* | 11.8 | 11.2 | 23 | | | 14.13 | I |
| 38.25 | - | - | - | - | | | - | 100 |
| | | | | | | | | |
| 73 | - | - | - | - | | | - | 100 |
| | 73.50* | 15.3 | 6.3 | 21.6 | | | 12.02 | I |
| 75.2 | - | - | - | - | | | - | 100 |
| | | | | | | | | |
| 108 | - | - | - | - | | | - | 150 |
| | 115.00* | 5.8 | 12.8 | 18.6 | | | 8.51 | I |
| 121.94 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 123 | - | - | - | - | | | - | 150 |
| | 132.00* | 6.5 | 11.9 | 18.4 | | | 8.32 | |
| 138 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 149.9 | - | - | - | - | | | - | 150 |
| | 150.00* | 3.9 | 12.8 | 16.7 | | | 6.84 | I |
| 150.05 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 156.5248 | - | - | - | - | | | - | 150 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 1 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|---|--|---|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Model Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters | | Detector: Quasi-Peak <1GHz, Average >1GHz |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| | 156.52500* | 2 | 14.1 | 16.1 | | | 6.38 | |
| 156.5253 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 156.7 | - | - | - | - | | | - | 150 |
| | 156.80* | 2.5 | 14.1 | 16.6 | | | 6.76 | |
| 156.9 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 162.0125 | - | - | - | - | | | - | 150 |
| | 164.00* | 1.1 | 15.3 | 16.4 | | | 6.61 | |
| 167.17 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 167.72 | - | - | - | - | | | - | 150 |
| | 170.00* | 0.9 | 17 | 17.9 | | | 7.85 | |
| 173.2 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 240 | - | - | - | - | | | - | 200 |
| | 260.00* | -2.9 | 12.1 | 9.2 | | | 2.88 | |
| 285 | - | - | - | - | | | - | 200 |
| | | | | | | | | |
| 322 | - | - | - | - | | | - | 200 |
| | 330.00* | -3.2 | 14.1 | 10.9 | | | 3.51 | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 2 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|--|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Model Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 335.4 | - | - | - | - | | | - | 200 |
| 399.9 | - | - | - | - | | | - | 200 |
| | 409.00* | -3.2 | 15 | 11.8 | | | 3.89 | |
| 410 | - | - | - | - | | | - | 200 |
| 608 | - | - | - | - | | | - | 200 |
| | 611.00* | -4.2 | 18.8 | 14.6 | | | 5.37 | |
| 614 | - | - | - | - | | | - | 200 |
| 960 | - | - | - | - | | | - | 500 |
| | 980.00* | -2 | 23.1 | 21.1 | | | 11.35 | |
| 1240 | - | - | - | - | | | - | 500 |
| 1300 | - | - | - | - | | | - | 500 |
| | - | - | - | - | | | - | |
| 1427 | - | - | - | - | | | - | 500 |
| 1435 | - | - | - | - | | | - | 500 |
| | - | - | - | - | | | - | |
| 1646.5 | - | - | - | - | | | - | 500 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 3 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|--|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Model Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 1660.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 1710.00 | - | - | - | - | | | - | 500.00 |
| 1718.80 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 1722.20 | - | - | - | - | | | - | 500.00 |
| 2200.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 2300.00 | - | - | - | - | | | - | 500.00 |
| 2310.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 2390.00 | - | - | - | - | | | - | 500.00 |
| 2483.50 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 2500.00 | - | - | - | - | | | - | 500.00 |
| 2690.00 | - | - | - | - | | | - | 500.00 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 4 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|--|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Model Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| | - | - | - | - | | | - | |
| 2900.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3260.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 3267.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3332.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 3339.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3345.80 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 3358.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3600.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 4400.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 4500.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |

EUT emissions observed throughout the given frequency spectrum were recorded and evaluated. Emission levels closest to the limit are listed on this data sheet. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 5 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|--|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Model Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| | 4810.00* | 29.70* | 0.40 | 30.10 | | | 31.98 | |
| | 4880.00* | 29.18* | 0.40 | 29.58 | | | 30.13 | |
| | 4960.00* | 29.34* | 0.40 | 29.74 | | | 30.69 | |
| 5150.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 5350.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 5460.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 7250.00 | - | - | - | - | | | - | 500.00 |
| | 7320.00* | 30.65* | 4.55 | 35.20 | | | 57.54 | |
| 7750.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 8025.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 8500.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 9000.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 9200.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 6 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|--|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Part Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 9300.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 9500.00 | - | - | - | - | | | - | 500.00 |
| 10600.00 | - | - | - | - | | | - | 500.00 |
| | 12025.00* | 30.77* | 9.80 | 40.57 | | | 106.78 | |
| | 12200.00* | 31.23* | 9.80 | 41.03 | | | 112.59 | |
| | 12400.00* | 25.34* | 9.80 | 35.14 | | | 57.14 | |
| 12700.00 | - | - | - | - | | | - | 500.00 |
| 13250.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 13400.00 | - | - | - | - | | | - | 500.00 |
| 14470.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 14500.00 | - | - | - | - | | | - | 500.00 |
| 15350.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 16200.00 | - | - | - | - | | | - | 500.00 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 7 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| EMISSIONS TEST DATA SHEET | | |
|---------------------------|--|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Part Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: | Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | |

TEST PARAMETERS

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 8 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Restricted Band Emissions
30 MHz to 25 GHz
SORTD Test Data**



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|---|---|---|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | |
| Model Number | 205001 | |
| Serial Number | 501114010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters | | Detector: Quasi-Peak <1GHz, Average >1GHz |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 37.5 | - | - | - | - | | | - | 100 |
| | 38.00* | 11.8 | 11.2 | 23 | | | 14.13 | I |
| 38.25 | - | - | - | - | | | - | 100 |
| | | | | | | | | |
| 73 | - | - | - | - | | | - | 100 |
| | 73.50* | 15.3 | 6.3 | 21.6 | | | 12.02 | I |
| 75.2 | - | - | - | - | | | - | 100 |
| | | | | | | | | |
| 108 | - | - | - | - | | | - | 150 |
| | 115.00* | 5.8 | 12.8 | 18.6 | | | 8.51 | I |
| 121.94 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 123 | - | - | - | - | | | - | 150 |
| | 132.00* | 6.5 | 11.9 | 18.4 | | | 8.32 | |
| 138 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 149.9 | - | - | - | - | | | - | 150 |
| | 150.00* | 3.9 | 12.8 | 16.7 | | | 6.84 | I |
| 150.05 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 156.5248 | - | - | - | - | | | - | 150 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 1 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|---|---|---|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | |
| Model Number | 205001 | |
| Serial Number | 501114010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters | | Detector: Quasi-Peak <1GHz, Average >1GHz |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| | 156.52500* | 2 | 14.1 | 16.1 | | | 6.38 | |
| 156.5253 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 156.7 | - | - | - | - | | | - | 150 |
| | 156.80* | 2.5 | 14.1 | 16.6 | | | 6.76 | |
| 156.9 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 162.0125 | - | - | - | - | | | - | 150 |
| | 164.00* | 1.1 | 15.3 | 16.4 | | | 6.61 | |
| 167.17 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 167.72 | - | - | - | - | | | - | 150 |
| | 170.00* | 0.9 | 17 | 17.9 | | | 7.85 | |
| 173.2 | - | - | - | - | | | - | 150 |
| | | | | | | | | |
| 240 | - | - | - | - | | | - | 200 |
| | 260.00* | -2.9 | 12.1 | 9.2 | | | 2.88 | |
| 285 | - | - | - | - | | | - | 200 |
| | | | | | | | | |
| 322 | - | - | - | - | | | - | 200 |
| | 330.00* | -3.2 | 14.1 | 10.9 | | | 3.51 | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 2 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|---|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | |
| Model Number | 205001 | |
| Serial Number | 501114010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 335.4 | - | - | - | - | | | - | 200 |
| 399.9 | - | - | - | - | | | - | 200 |
| | 409.00* | -3.2 | 15 | 11.8 | | | 3.89 | |
| 410 | - | - | - | - | | | - | 200 |
| 608 | - | - | - | - | | | - | 200 |
| | 611.00* | -4.2 | 18.8 | 14.6 | | | 5.37 | |
| 614 | - | - | - | - | | | - | 200 |
| 960 | - | - | - | - | | | - | 500 |
| | 980.00* | -2 | 23.1 | 21.1 | | | 11.35 | |
| 1240 | - | - | - | - | | | - | 500 |
| 1300 | - | - | - | - | | | - | 500 |
| | - | - | - | - | | | - | |
| 1427 | - | - | - | - | | | - | 500 |
| 1435 | - | - | - | - | | | - | 500 |
| | - | - | - | - | | | - | |
| 1646.5 | - | - | - | - | | | - | 500 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 3 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|---|---|---|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | |
| Model Number | 205001 | |
| Serial Number | 501114010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters | | Detector: Quasi-Peak <1GHz, Average >1GHz |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 1660.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 1710.00 | - | - | - | - | | | - | 500.00 |
| 1718.80 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 1722.20 | - | - | - | - | | | - | 500.00 |
| 2200.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 2300.00 | - | - | - | - | | | - | 500.00 |
| 2310.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 2390.00 | - | - | - | - | | | - | 500.00 |
| 2483.50 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 2500.00 | - | - | - | - | | | - | 500.00 |
| 2690.00 | - | - | - | - | | | - | 500.00 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 4 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|---|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | |
| Model Number | 205001 | |
| Serial Number | 501114010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| | - | - | - | - | | | - | |
| 2900.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3260.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 3267.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3332.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 3339.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3345.80 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 3358.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 3600.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 4400.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 4500.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |

EUT emissions observed throughout the given frequency spectrum were recorded and evaluated. Emission levels closest to the limit are listed on this data sheet. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 5 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|---|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | |
| Model Number | 205001 | |
| Serial Number | 501114010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| | 4810.00* | 29.70* | 0.40 | 30.10 | | | 31.98 | |
| | 4880.00* | 29.18* | 0.40 | 29.58 | | | 30.13 | |
| | 4960.00* | 29.34* | 0.40 | 29.74 | | | 30.69 | |
| 5150.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 5350.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 5460.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 7250.00 | - | - | - | - | | | - | 500.00 |
| | 7320.00* | 30.65* | 4.55 | 35.20 | | | 57.54 | |
| 7750.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 8025.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 8500.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |
| 9000.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 9200.00 | - | - | - | - | | | - | 500.00 |
| | | | | | | | | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 6 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|---|---|---|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | |
| Part Number | 205001 | |
| Serial Number | 501114010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters | | Detector: Quasi-Peak <1GHz, Average >1GHz |

TEST PARAMETERS

| Restricted Band | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|-----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 9300.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 9500.00 | - | - | - | - | | | - | 500.00 |
| 10600.00 | - | - | - | - | | | - | 500.00 |
| | 12025.00* | 30.77* | 9.80 | 40.57 | | | 106.78 | |
| | 12200.00* | 31.23* | 9.80 | 41.03 | | | 112.59 | |
| | 12400.00* | 25.34* | 9.80 | 35.14 | | | 57.14 | |
| 12700.00 | - | - | - | - | | | - | 500.00 |
| 13250.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 13400.00 | - | - | - | - | | | - | 500.00 |
| 14470.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 14500.00 | - | - | - | - | | | - | 500.00 |
| 15350.00 | - | - | - | - | | | - | 500.00 |
| | - | - | - | - | | | - | |
| 16200.00 | - | - | - | - | | | - | 500.00 |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 7 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| EMISSIONS TEST DATA SHEET | | |
|---------------------------|--|----------------------|
| Test Method | Restricted Band Emissions 30 MHz to 25 GHz | |
| Customer | Radiation Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | |
| Part Number | 205001 | |
| Serial Number | 501114010002 | |
| Test Specification | FCC Part 15 Subpart C | Paragraph: 15.247(d) |
| Operating Mode | Transmitting modulated signal | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: | Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | |

TEST PARAMETERS

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 8 of 8



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Band Edge Radiated
DMC2000TD Test Data**

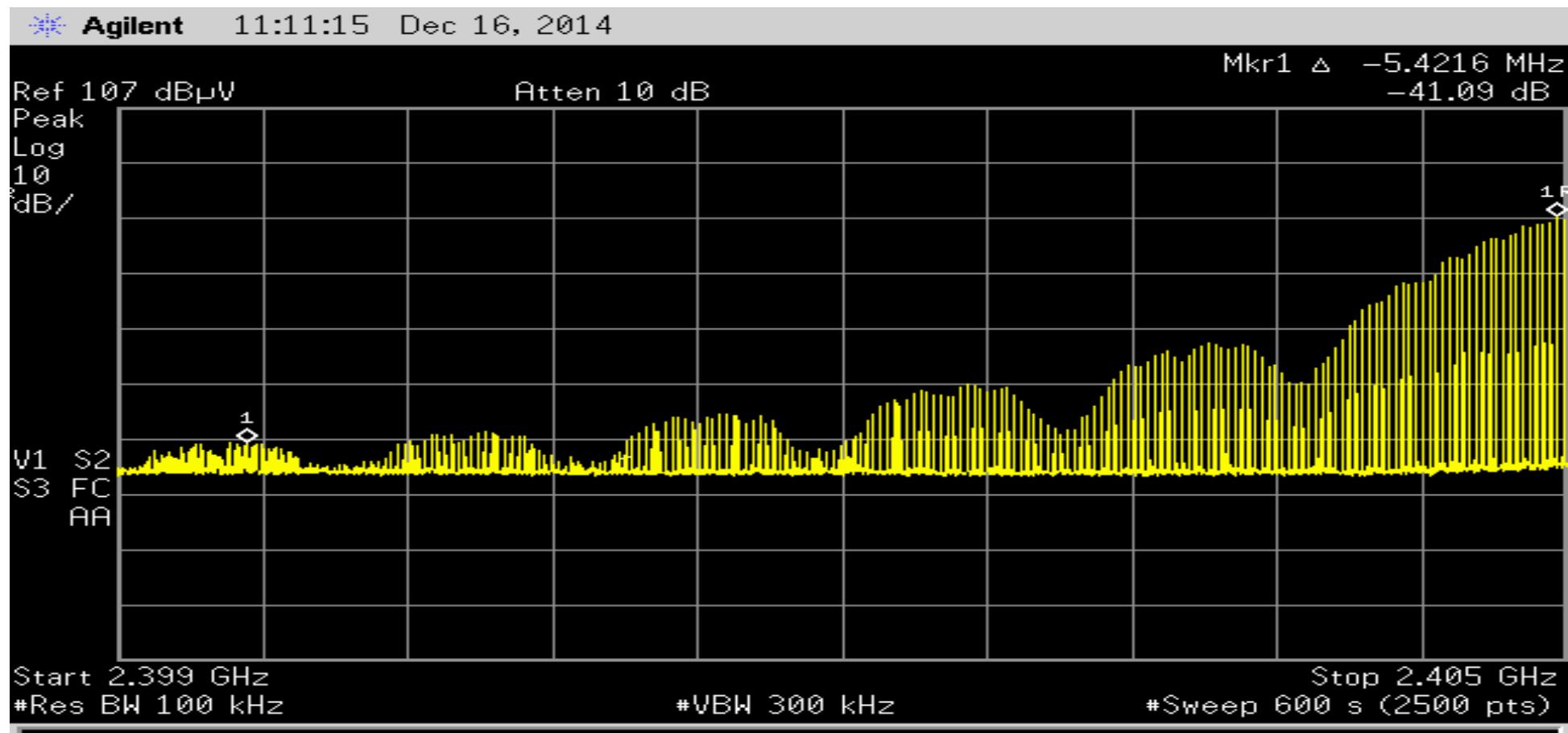


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RETLIF TESTING LABORATORIES

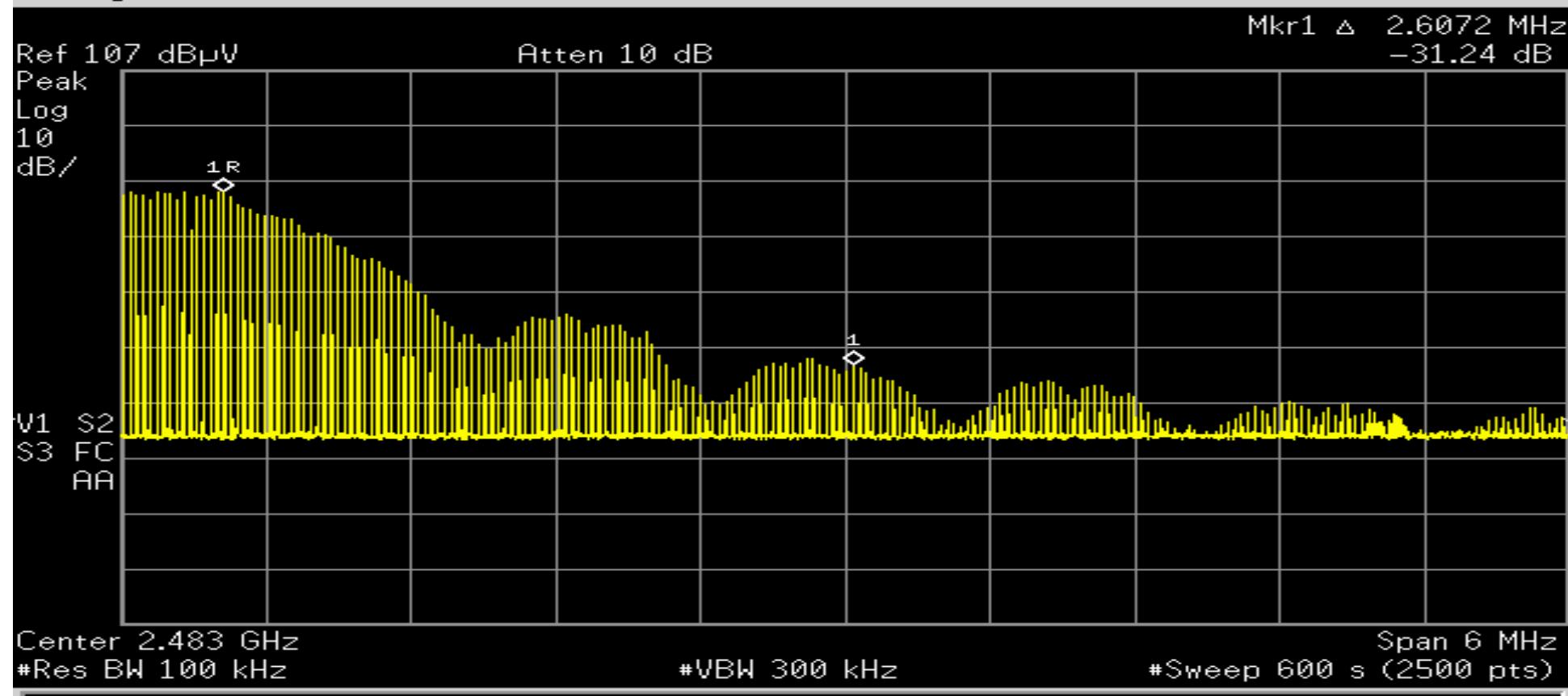
| | | | |
|---------------------|--|---------------------------|----------------------------------|
| Test Method: | Band Edge Radiated | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010002 |
| Operating Mode | Transmitting modulated signal | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 16 th , 2014 |
| Climatic Conditions | Temp: 1.6 °C | Relative Humidity: 23.0 % | |
| Notes | Lower Band Edge Reading: -41.09dB from Reference Reading | | |



RETLIF TESTING LABORATORIES

| | | | |
|---------------------|--|------------|----------------------------------|
| Test Method: | Band Edge Radiated | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | | |
| Model Number | 118001 | Serial No. | 501014010002 |
| Operating Mode | Transmitting modulated signal | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 16 th , 2014 |
| Climatic Conditions | Temp: 1.6 °C Relative Humidity: 23.0 % | | |
| Notes | Upper Band Edge Reading: -31.24 from Reference Reading | | |

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Data Sheet 2 of 2

**Band Edge Radiated
SORTD Test Data**

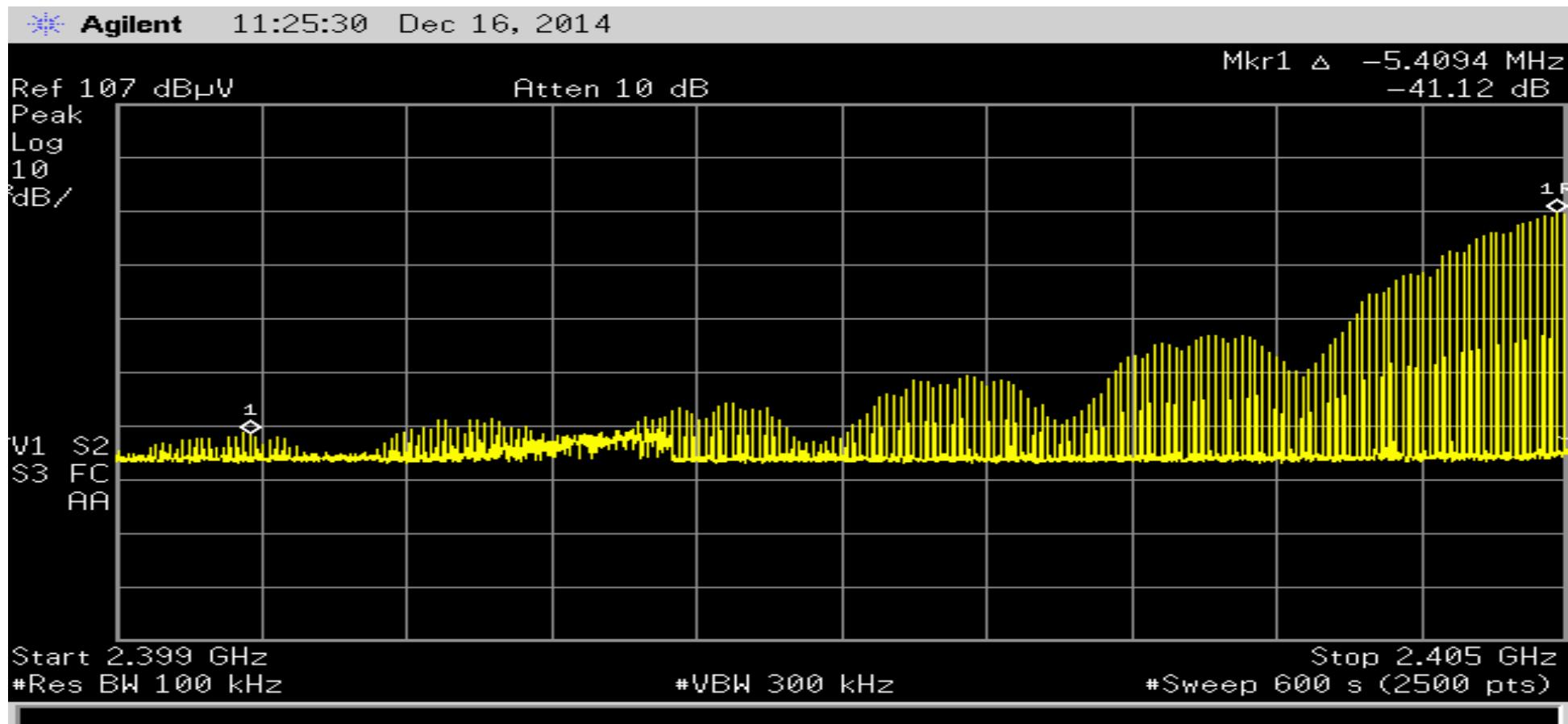


Retlif Testing Laboratories

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RETLIF TESTING LABORATORIES

| | | | |
|----------------------------|--|---------------------------|----------------------------------|
| Test Method: | Band Edge Radiated | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | 501114010002 |
| Operating Mode | Transmitting modulated signal | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 16 th , 2014 |
| Climatic Conditions | Temp: 1.6 °C | Relative Humidity: 23.0 % | |
| Notes | Lower Band Edge Reading: -41.12dB from Reference Reading | | |

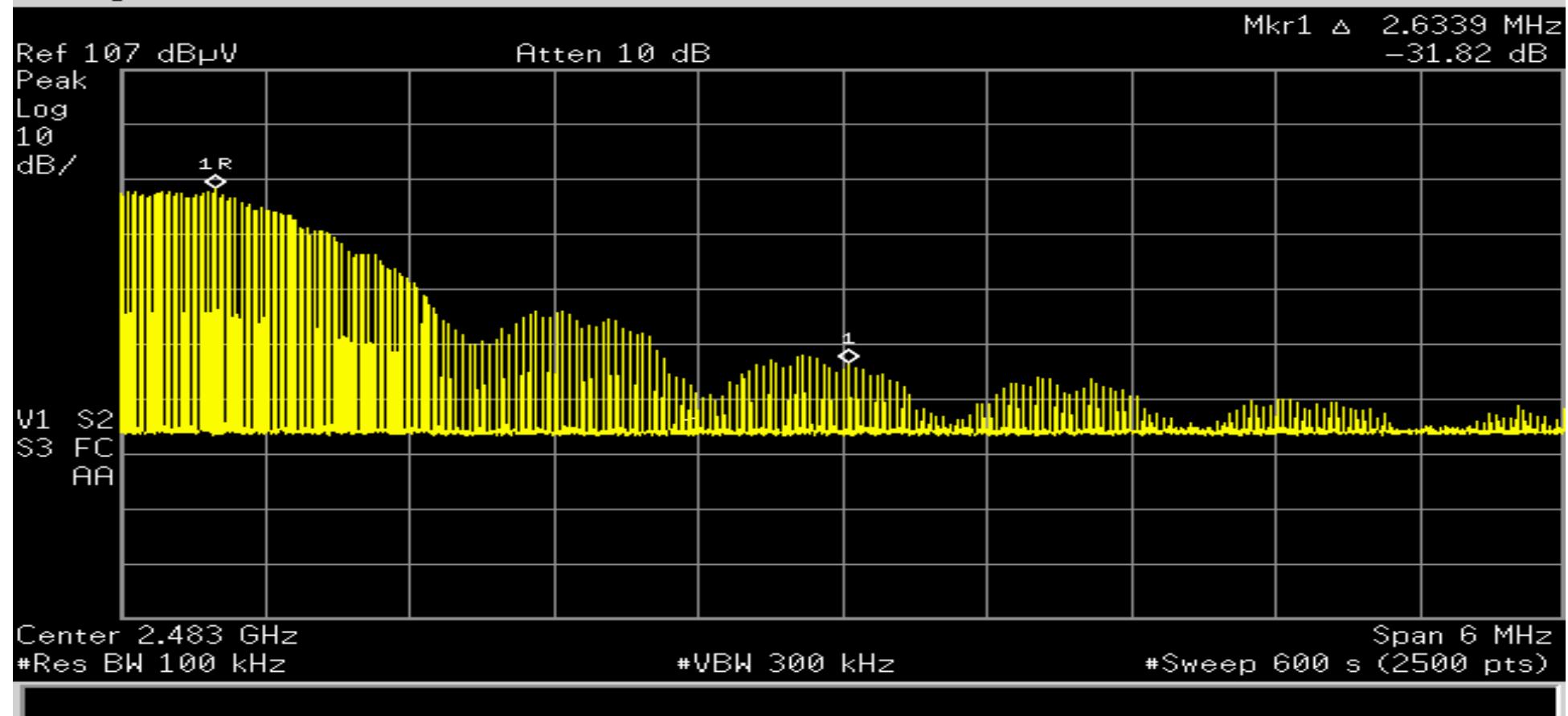


Page 1 of 2

RETLIF TESTING LABORATORIES

| | | | |
|---------------------|--|---------------------------|----------------------------------|
| Test Method: | Band Edge Radiated | | |
| Customer | Radiation Safety and Control Services, Inc. | Job No. | R-5908N |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | Serial No. | 501114010002 |
| Operating Mode | Transmitting modulated signal | | |
| Test Specification | FCC Part 15, Subpart C Paragraph: 15.247 (d) | | |
| Technician | M. Seamans | Date | December 16 th , 2014 |
| Climatic Conditions | Temp: 1.6 °C | Relative Humidity: 23.0 % | |
| Notes | Upper Band Edge Reading: -31.82dB from Reference Reading | | |

 Agilent 11:54:46 Dec 16, 2014



Data Sheet 2 of 2

**Test Photograph(s)
Power Density
FCC Section 15.247(e)**



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Report No. R-5908N, Rev. B

**Test Photograph(s)
Power Density**



Test Configuration



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**Power Spectral Density
Test Data**



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| Test Method | Power Density |
|--------------------|--|
| Customer | Radiation Safety and Control Services, Inc. |
| Job Number | R-5908N |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument |
| Model Number | 118001 |
| Serial Number | 501014010001 |
| Test Specification | FCC Part 15, Subpart C Paragraph 15.247 (e) |
| Operating Mode | Transmitting modulated signal |
| Technician | M. Seamans |
| Date | December 1 st , 2014 |

Notes: Measurement method: 9.1.2, PKPM1 Broadband RF Peak Power Meter



Retlif Testing Laboratories

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**Test Photograph(s)
Receiver Spurious Emissions
RSS-GEN**



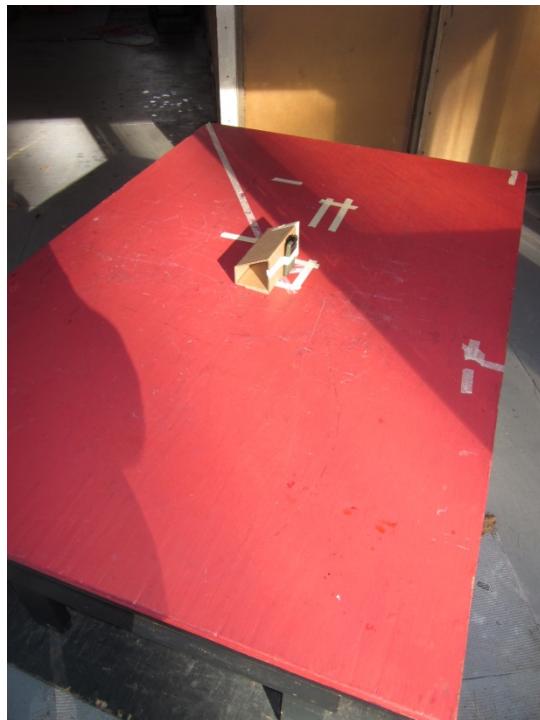
Retlif Testing Laboratories

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**Test Photograph(s)
Receiver Spurious Emissions**



Test Setup, DMC2000TD



Test Setup, SORTD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Test Photograph(s)
Receiver Spurious Emissions**



30 MHz – 200 MHz, Horizontal Polarization, DMC2000TD



30 MHz – 200 MHz, Vertical Polarization, DMC2000TD



Retlif Testing Laboratories

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**Test Photograph(s)
Receiver Spurious Emissions**



30 MHz – 200 MHz, Horizontal Polarization, SORTD



30 MHz – 200 MHz, Vertical Polarization, SORTD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Test Photograph(s)
Receiver Spurious Emissions**



200 MHz – 1 GHz, Horizontal Polarization, DMC2000TD



200 MHz – 1 GHz, Vertical Polarization, DMC2000TD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Test Photograph(s)
Receiver Spurious Emissions**



200 MHz – 1 GHz, Horizontal Polarization, SORTD



200 MHz – 1 GHz, Vertical Polarization, SORTD



Retlif Testing Laboratories

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**Test Photograph(s)
Receiver Spurious Emissions**



1 GHz – 18 GHz, Horizontal Polarization, DMC2000TD



1 GHz – 18 GHz, Vertical Polarization, DMC2000TD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Test Photograph(s)
Receiver Spurious Emissions**



1 GHz – 18 GHz, Horizontal Polarization, SORTD



1 GHz – 18 GHz, Vertical Polarization, SORTD



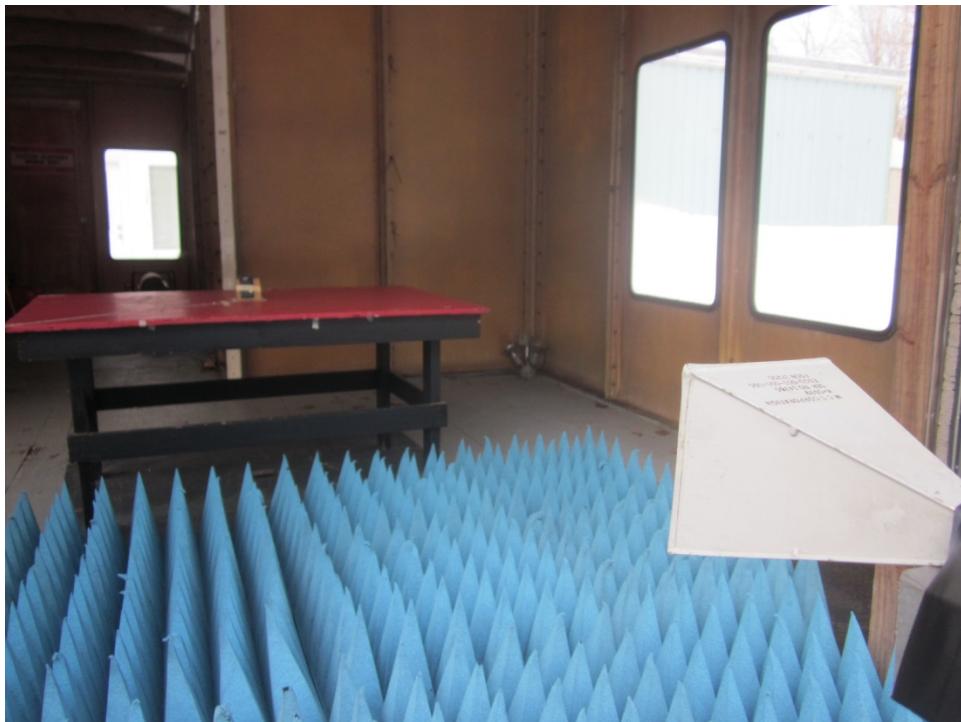
Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Test Photograph(s)
Receiver Spurious Emissions**



18 GHz – 25 GHz, Horizontal Polarization, DMC2000TD



18 GHz – 25 GHz, Vertical Polarization, DMC2000TD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Test Photograph(s)
Receiver Spurious Emissions**



18 GHz – 25 GHz, Horizontal Polarization, SORTD



18 GHz – 25 GHz, Vertical Polarization, SORTD



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

**Receiver Spurious Emissions
DMC2000TD & SORTD Test Data**



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | |
|--|---|----------------|
| Test Method | Receiver Spurious Emissions 30 MHz to 25 GHz | |
| Customer | Radiated Safety and Control Services, Inc. | |
| Job Number | R-5908N | |
| Test Sample | DMC2000TD Simulated Radiation Detection Instrument | |
| Model Number | 118001 | |
| Serial Number | 501014010002 | |
| Test Specification | RSS-GEN | Paragraph: 6.1 |
| Operating Mode | Standby | |
| Technician | T. Hannemann | |
| Date | February 11, 2015 | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | |

TEST PARAMETERS

| Test Frequency | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 30 | - | - | - | - | | | - | 100 |
| | 38.00* | 11.8 | 11.2 | 23 | | | 14.13 | I |
| | 73.50* | 15.3 | 6.3 | 21.6 | | | 12.02 | |
| 88 | - | - | - | - | | | - | 100 |
| 88 | - | - | - | - | | | - | 150 |
| | 115.00* | 5.8 | 12.8 | 18.6 | | | 8.51 | I |
| | 132.00* | 6.5 | 11.9 | 18.4 | | | 8.32 | |
| | 150.00* | 3.9 | 12.8 | 16.7 | | | 6.84 | |
| | 164.00* | 1.1 | 15.3 | 16.4 | | | 6.61 | |
| 216 | - | - | - | - | | | - | 150 |
| 216 | - | - | - | - | | | - | 200 |
| | 260.00* | -2.9 | 12.1 | 9.2 | | | 2.88 | |
| | 330.00* | -3.2 | 14.1 | 10.9 | | | 3.51 | |
| | 611.00* | -4.2 | 18.8 | 14.6 | | | 5.37 | |
| 960 | - | - | - | - | | | - | 200 |
| 960 | - | - | - | - | | | - | 500 |
| | 4810.00* | 29.70* | 0.4 | 30.1 | | | 31.99 | |
| | 7320.00* | 30.65* | 4.55 | 35.15 | | | 57.21 | I |
| 25000 | - | - | - | - | | | - | 500 |
| | | | | | | | | |
| | | | | | | | | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 1 of 2



Retlif Testing Laboratories

Report No. R-5908N, Rev. B

RETLIF TESTING LABORATORIES

EMISSIONS TEST DATA SHEET

| | | | |
|--|---|--|----------------|
| Test Method | Receiver Spurious Emissions 30 MHz to 25 GHz | | |
| Customer | Radiated Safety and Control Services, Inc. | | |
| Job Number | R-5908N | | |
| Test Sample | SORTD Simulated Radiation Detection Instrument | | |
| Model Number | 205001 | | |
| Serial Number | 501114010002 | | |
| Test Specification | RSS-GEN | | Paragraph: 6.1 |
| Operating Mode | Standby | | |
| Technician | T. Hannemann | | |
| Date | February 11, 2015 | | |
| Notes: Test Antenna Distance: 3 meters Detector: Quasi-Peak <1GHz, Average >1GHz | | | |

TEST PARAMETERS

| Test Frequency | Measured Frequency | Meter Reading | Correction Factor | Corrected Reading | | | Converted Reading | Limit at 3M |
|----------------|--------------------|---------------|-------------------|-------------------|--|--|-------------------|-------------|
| MHz | MHz | dBuV | dB | dBuV/m | | | uV/m | uV/m |
| 30 | - | - | - | - | | | - | 100 |
| | 38.00* | 11.8 | 11.2 | 23 | | | 14.13 | I |
| | 73.50* | 15.3 | 6.3 | 21.6 | | | 12.02 | |
| 88 | - | - | - | - | | | - | 100 |
| 88 | - | - | - | - | | | - | 150 |
| | 115.00* | 5.8 | 12.8 | 18.6 | | | 8.51 | I |
| | 132.00* | 6.5 | 11.9 | 18.4 | | | 8.32 | |
| | 150.00* | 3.9 | 12.8 | 16.7 | | | 6.84 | |
| | 164.00* | 1.1 | 15.3 | 16.4 | | | 6.61 | |
| 216 | - | - | - | - | | | - | 150 |
| 216 | - | - | - | - | | | - | 200 |
| | 260.00* | -2.9 | 12.1 | 9.2 | | | 2.88 | |
| | 330.00* | -3.2 | 14.1 | 10.9 | | | 3.51 | |
| | 611.00* | -4.2 | 18.8 | 14.6 | | | 5.37 | |
| 960 | - | - | - | - | | | - | 200 |
| 960 | - | - | - | - | | | - | 500 |
| | 4810.00* | 29.70* | 0.4 | 30.1 | | | 31.99 | |
| | 7320.00* | 30.65* | 4.55 | 35.15 | | | 57.21 | I |
| 25000 | - | - | - | - | | | - | 500 |
| | | | | | | | | |
| | | | | | | | | |

No EUT emissions within 10 dB of the specified test limit were observed at the specified test distance throughout the given frequency spectrum. * This emission is not from the EUT. It is a measurement of minimum measurement system sensitivity (Noise Floor).

Data Sheet 2 of 2



Retlif Testing Laboratories

Report No. R-5908N, Rev. B