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FCC PART 15B / RSS-135 SCANNING RECEIVER COMBO TEST REPORT

Applicant	UNIDEN AMERICA CORPORATION
Address	3001 GATEWAY DRIVE SUITE 130 IRVING, TEXAS 75063 USA
FCC ID:	AMWUB384
IC	513C-UB384
Model Number	SDS200
Product Description	SCANNING RECEIVER
Date Sample Received	11/27/2018
Final Test Date	11/27/2018
Tested By	Tim Royer
Approved By	Franklin Rose
Test Results	☒ PASS ☐ FAIL

Report Number	Version Number	Description	Issue Date
2014AUT18TestReport	Rev1	Initial Issue	11/29/2018

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT
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GENERAL REMARKS

The attached report shall not be reproduced except in full without the written permission of Timco Engineering Inc.

Summary

The device under test does:

- ☒ Fulfill the general approval requirements as identified in this test report and was selected by the customer.
- ☐ Not fulfill the general approval requirements as identified in this test report

Attestations

This equipment has been tested in accordance with the standards identified in this test report. To the best of my knowledge and belief, these tests were performed using the measurement procedures described in this report.

All instrumentation and accessories used to test products for compliance to the indicated standards are calibrated regularly in accordance with ISO 17025 requirements.

I attest that the necessary measurements were made at:

Timco Engineering Inc.
849 NW State Road 45
Newberry FL 32668



Sr. EMC Engineer
EMC-003838-NE



Tested by:

Name and Title: Tim Royer, Project Manager/Testing Engineer

Date: 11/27/2018



Reviewed and approved by:

Name and Title: Franklin Rose, Project Manager/EMC Testing Technician

Date: 11/29/2018

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

GENERAL INFORMATION

EUT Description	SCANNING RECEIVER
FCC ID	AMWUB384
IC	513C-UB384
Model Number	SDS200
Range	25.0 – 1240.0 MHz
Test Range	30 MHz – 960 MHz*
Receiver Circuit Type	Heterodyne
Antenna Connector	SMA
EUT Power Source	☒ 110–120Vac/50– 60Hz
	☒ 13.6 VDC Nominal
	☐ Battery Operated Exclusively
Test Item	☐ Prototype
	☒ Pre-Production
	☐ Production
Modifications required for Testing	None
Test Site	Timco Engineering, Inc. 849 NW State Road 45 Newberry, FL 32669 Designation #: US1070, IC: 2056A

***NOTE: 15.101(b)** Receivers operating above 960 MHz or below 30 MHz, except for radar detectors and CB receivers, are exempt from complying with the technical provisions of this part but are subject to §15.5.

***NOTE: RSS-GEN 5.3** Only radiocommunication receivers operating in stand-alone mode within the band 30-960 MHz, as well as scanner receivers, are subject to Industry Canada requirements, as described above. All other receivers are exempted from any Industry Canada certification, testing, labeling and reporting requirements.

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REPORT SUMMARY

Regulatory Standard	CFR Title 47 FCC Rule part 15B § 15.109, 15.111, & 15.121, IC RSS-135, i2, RSS-GEN
Test Procedures	FCC Part 15.31, 15.33, 15.35, RSS-GEN ANSI C63.4 – 2014
Operational Modes	Stopped at the Lowest, middle, and highest frequency of tuning range. In addition scanning all frequencies of tuning range
Test Frequencies	Low: 40.84 MHz
	Middle: 107.5, 511.9125 MHz
	High: 954.9125 MHz
	Scan: 25.0 – 1240.0 MHz
Setup	For radiated test the ant terminal was connected to 50Ω non radiating load through a 50 Ω coaxial cable
	For conducted test the ant terminal was connected to a EMI receiver through 50 Ω coaxial cable
Environmental Condition in the laboratory	Temperature: 24-26°C Relative humidity: 50-65% Barometric Pressure: 30.01"
Deviation from the standard / procedure	No deviation

RESULTS SUMMARY

FCC Requirement	ISED Requirement	Pass / Fail
15.109 Radiated Emissions	RSS-215, Sec 5.1 RSS-GEN 7.1.2	Pass
15.111 Receiver Conducted Power	RSS-GEN 8.8	Pass
15.121 38 dB Rejection		N/A ⁽¹⁾

Notes:

- 1) The receiver is digital and is incapable of producing a SINAD output.

RADIATED SPURIOUS EMISSIONS

Rule Part No.: FCC Part 15 Subpart B , RSS-215, RSS-GEN

Requirements: FCC Part 15.109(a) Radiated Emission Limit

Class B Field Strength Limits @ 3 Meters	
Frequency (MHz)	Level (dBuV / m)
30 – 88	40.0
80 – 216	43.5
216 – 960	46.0
Above 960	54.0

FCC Part 15.109(f) Radiated Emission Limit

For a receiver which employs terminals for the connection of an external receiving antenna, the receiver shall be tested to demonstrate compliance with the provisions of this section with an antenna connected to the antenna terminals unless the antenna conducted power is measured as specified in §15.111(a).

Procedure: FCC Part 15.33(b)(3) Frequency range of radiated measurements

FCC Part 15.35(a) Measurement detector functions and bandwidths

ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment 9 kHz to 40 GHz

§ 6.2 Operating conditions

§ 6.3 Arrangement of EUT

§ 8.3.1 Exploratory radiated emissions measurements

§ 8.3.2 Final radiated emission measurements

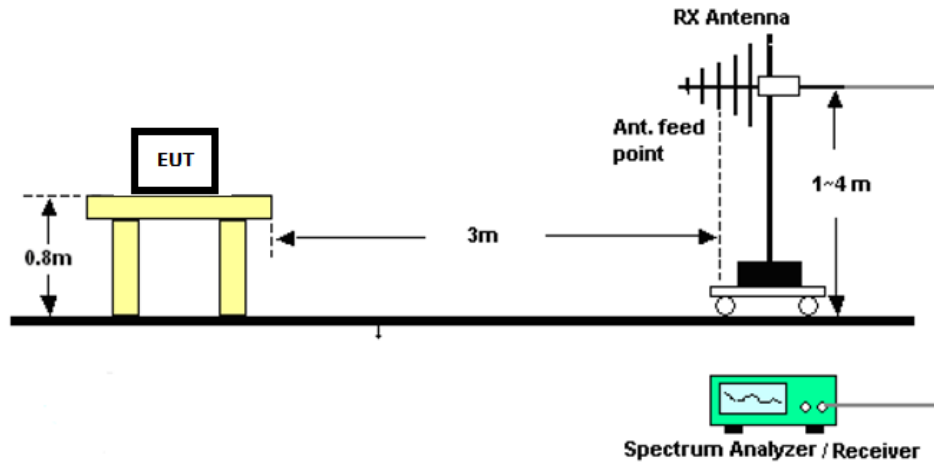
Configuration: The scanner receiver spurious emissions are to be measured when the receiver is in the scanning mode and repeated when the scanning is stopped.

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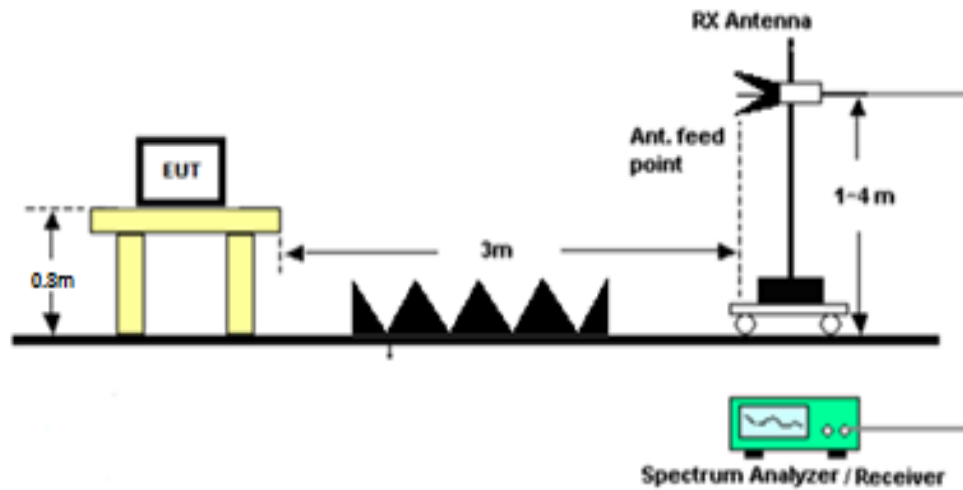
RADIATED SPURIOUS EMISSIONS

Setup:

Emissions 30 – 1000 MHz



Emissions above 1 GHz



RADIATED SPURIOUS EMISSIONS

Scanning Receiver Function, Scanned 30 MHz to 200 MHz

Test Data: Field Strength Plot, Horiz. Polarity



27.Nov 18 18:36

Test Spec CISPR 22 Radiated Disturbances

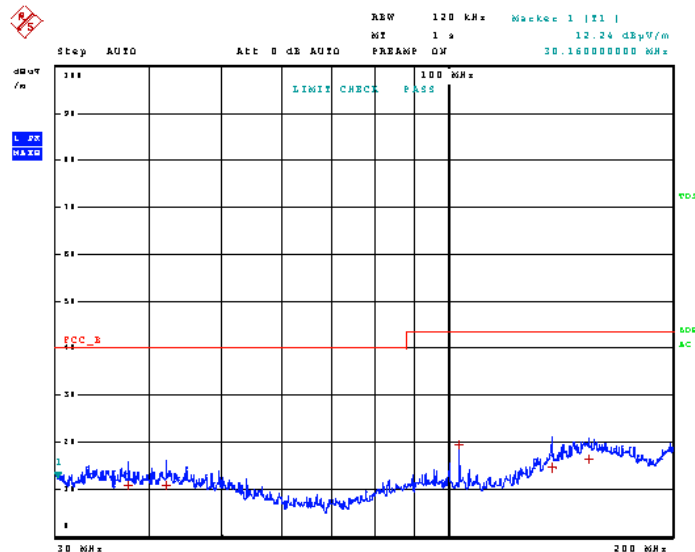
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

27.Nov 18 18:36

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	37.44000000 MHz	10.83	Quasi Peak	-29.17
1	42.00000000 MHz	10.74	Quasi Peak	-29.26
1	103.64000000 MHz	19.53	Quasi Peak	-23.97
1	138.08000000 MHz	14.60	Quasi Peak	-28.90
1	154.40000000 MHz	16.53	Quasi Peak	-26.97

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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Vert. Polarity



27.Nov 18 18:37

Test Spec CISPR 22 Radiated Disturbances

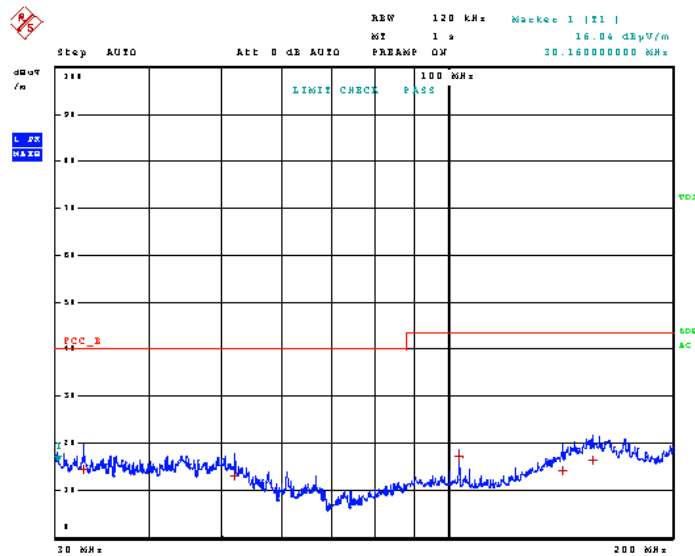
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

27.Nov 18 18:37

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s
Margin: 25 dB
Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	32.60000000 MHz	14.39	Quasi Peak	-25.61
1	51.92000000 MHz	13.11	Quasi Peak	-26.89
1	103.76000000 MHz	17.07	Quasi Peak	-26.43
1	142.60000000 MHz	14.20	Quasi Peak	-29.30
1	156.24000000 MHz	16.44	Quasi Peak	-27.06

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RADIATED SPURIOUS EMISSIONS

Tuned to 40.84 MHz, Scanned 30 MHz to 200 MHz

Test Data: Low End of Band 40.84 MHz Field Strength Plot, Horiz. Polarity



27.Nov 18 18:34

Test Spec CISPR 22 Radiated Disturbances

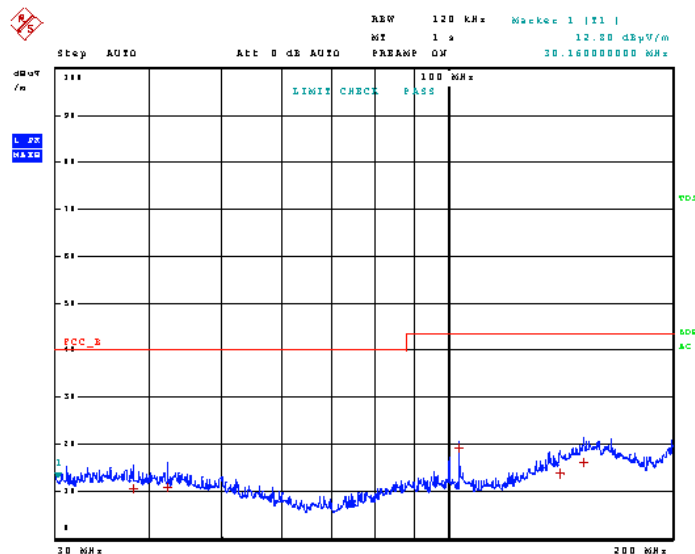
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 40.84 MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:34

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	38.00000000 MHz	10.67	Quasi Peak	-29.33
1	42.28000000 MHz	10.73	Quasi Peak	-29.27
1	103.76000000 MHz	19.27	Quasi Peak	-24.23
1	141.36000000 MHz	13.02	Quasi Peak	-29.68
1	152.28000000 MHz	16.11	Quasi Peak	-27.39

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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 40.84 MHz Field Strength Plot, Vert. Polarity



27.Nov 18 18:33

Test Spec CISPR 22 Radiated Disturbances

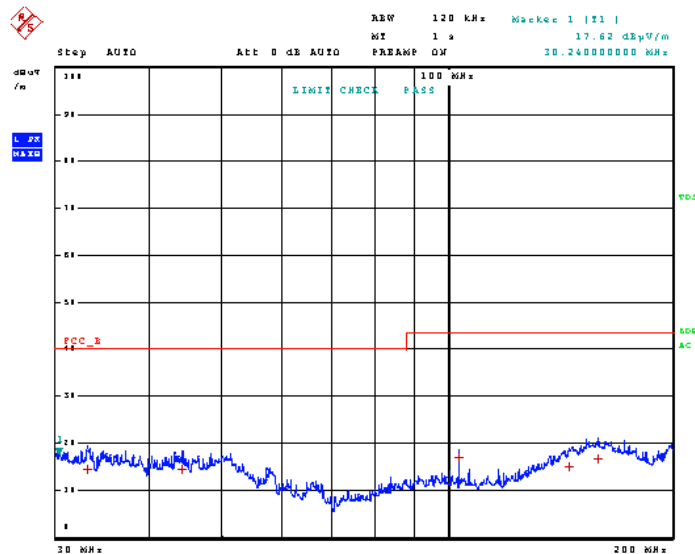
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 40.84 MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:33

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 5

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	33.00000000 MHz	14.33	Quasi Peak	-25.67
1	44.16000000 MHz	14.48	Quasi Peak	-25.52
1	103.68000000 MHz	17.00	Quasi Peak	-26.50
1	145.12000000 MHz	14.92	Quasi Peak	-26.58
1	159.00000000 MHz	16.61	Quasi Peak	-26.89

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RADIATED SPURIOUS EMISSIONS

Tuned to 107.1 MHz, Scanned 30 MHz to 200 MHz

Test Data: Middle of Band 107.5 MHz Field Strength Plot, Horiz. Polarity



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Test Spec: CISPR 22 Radiated Disturbances

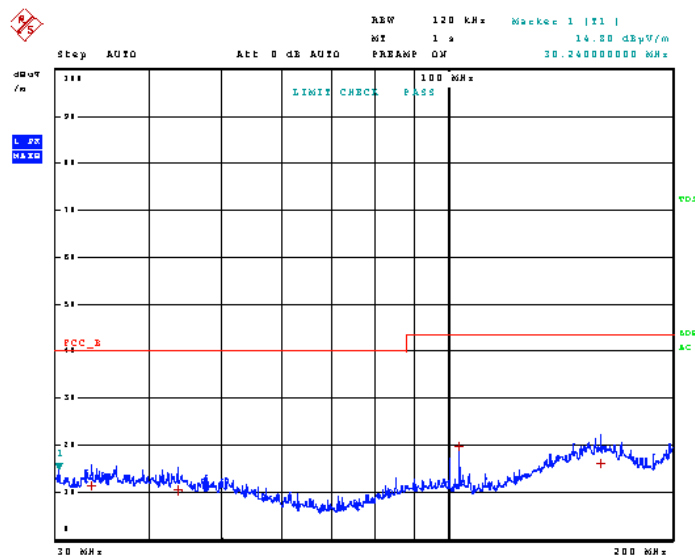
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 107.5MHz Field Strength Table, Horiz. Polarity

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Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	33.44000000 MHz	11.37	Quasi Peak	-28.63
1	43.56000000 MHz	10.33	Quasi Peak	-29.67
1	103.64000000 MHz	19.85	Quasi Peak	-23.65
1	159.92000000 MHz	15.97	Quasi Peak	-27.53

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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 107.5MHz Field Strength Plot, Vert. Polarity



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Test Spec CISPR 22 Radiated Disturbances

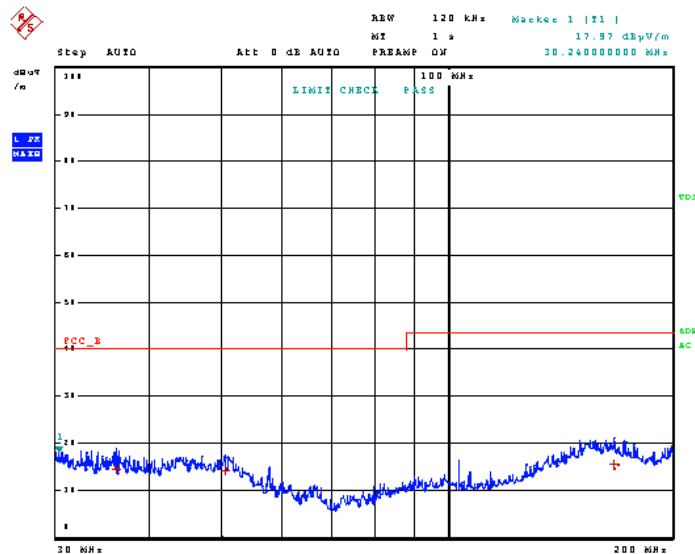
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 107.5MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:32

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	36.04000000 MHz	14.37	Quasi Peak	-25.63
1	50.44000000 MHz	14.23	Quasi Peak	-25.77
1	167.36000000 MHz	15.50	Quasi Peak	-28.00

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RADIATED SPURIOUS EMISSIONS

Tuned to 511.9125 MHz, Scanned 30 MHz to 200 MHz

Test Data: Middle of Band 511.9125 MHz Field Strength Plot, Horiz. Polarity



27.Nov 18 18:30

Test Spec CISPR 22 Radiated Disturbances

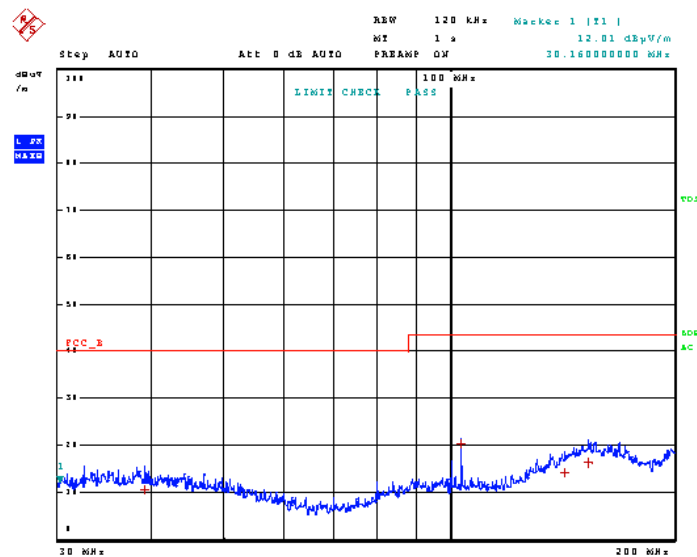
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 511.9125MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:30

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	39.16000000 MHz	10.51	Quasi Peak	-29.49
1	103.64000000 MHz	20.36	Quasi Peak	-23.14
1	142.68000000 MHz	14.11	Quasi Peak	-29.39
1	153.64000000 MHz	16.24	Quasi Peak	-27.26

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Applicant: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUB384
 IC: 513C-UB384
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 511.9125MHz Field Strength Plot, Vert. Polarity



27.Nov 18 18:30

Test Spec CISPR 22 Radiated Disturbances

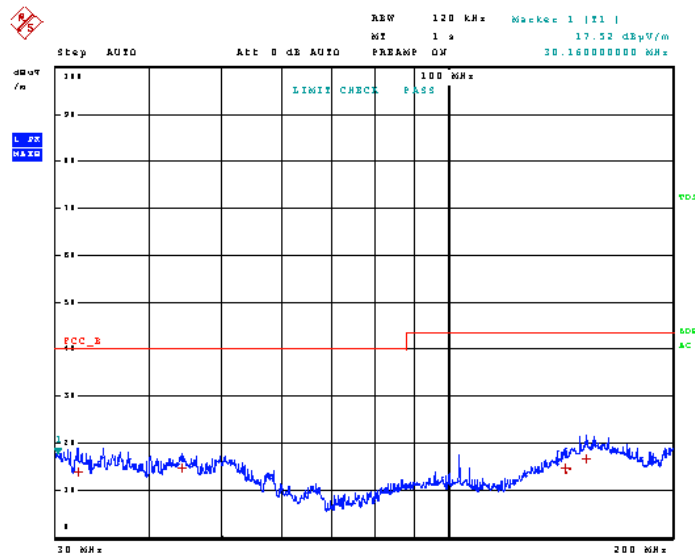
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 511.9125MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:30

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	32.08000000 MHz	14.06	Quasi Peak	-25.94
1	44.08000000 MHz	14.73	Quasi Peak	-25.27
1	144.00000000 MHz	14.63	Quasi Peak	-28.87
1	153.32000000 MHz	16.64	Quasi Peak	-26.86

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Applicant: UNIDEN AMERICA CORPORATION
 FCC ID: AMWUB384
 IC: 513C-UB384
 Report: 2014AUT18TestReport_Rev1

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RADIATED SPURIOUS EMISSIONS

Tuned to 954.9125 MHz, Scanned 30 MHz to 200 MHz

Test Data: High End of Band 954.9125 MHz Field Strength Plot, Horiz. Polarity



27.Nov 18 18:27

Test Spec CISPR 22 Radiated Disturbances

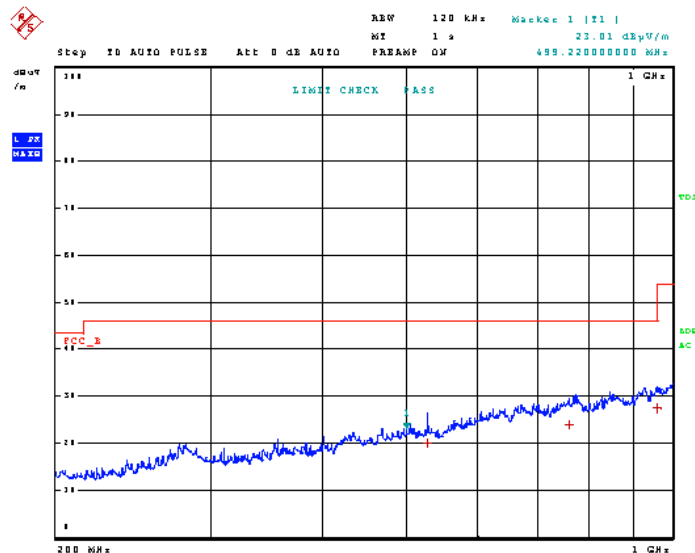
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 954.9125 MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:27

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	527.30000000 MHz	20.10	Quasi Peak	-25.90
1	761.99000000 MHz	24.07	Quasi Peak	-21.93
1	959.51000000 MHz	27.49	Quasi Peak	-18.51

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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 954.9125 MHz Field Strength Plot, Vert. Polarity



27.Nov 18 18:29

Test Spec CISPR 22 Radiated Disturbances

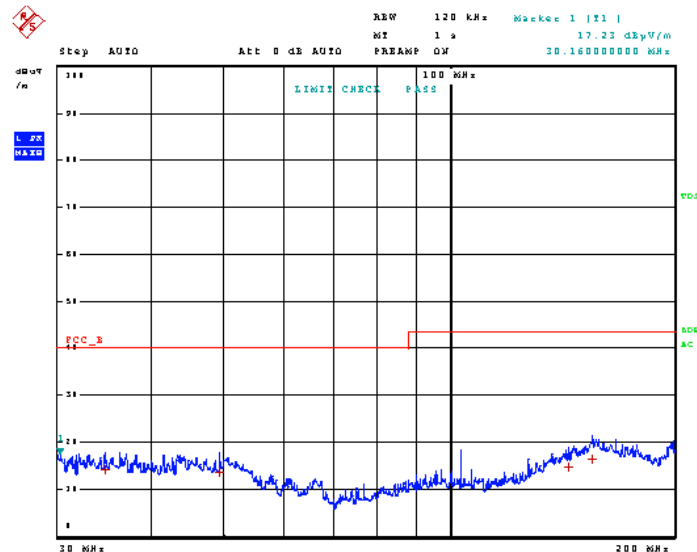
Polarity

Vertical

Stepped Scan (1 Range)

Scan Start: 30 MHz
Scan Stop: 200 MHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
30.000000 MHz	200.000000 MHz	40.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 954.9125 MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:29

Test Spec CISPR 22 Radiated Disturbances

Polarity

Vertical

Final Measurement

Meas Time: 1 s

Margin: 25 dB

Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	34.72000000 MHz	14.23	Quasi Peak	-25.77
1	49.16000000 MHz	13.65	Quasi Peak	-26.35
1	144.40000000 MHz	14.81	Quasi Peak	-28.69
1	155.20000000 MHz	16.51	Quasi Peak	-26.99

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Scanning Receiver Function, Scanned 200 MHz to 1 GHz

Test Data: Field Strength Plot, Horiz. Polarity



27.Nov 18 18:11

Test Spec CISPR 22 Radiated Disturbances

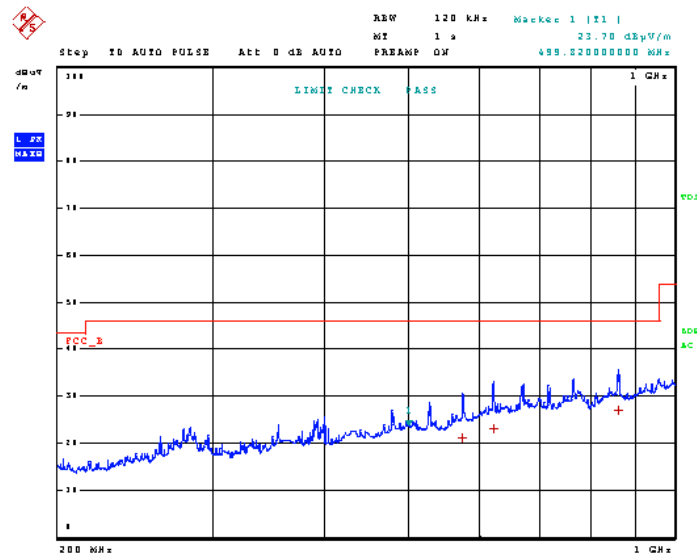
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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Report: 2014AUT18TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

27.Nov 18 18:11

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	575.03000000 MHz	21.18	Quasi Peak	-24.82
1	623.87000000 MHz	22.99	Quasi Peak	-23.01
1	862.94000000 MHz	26.91	Quasi Peak	-19.09

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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Plot, Vert. Polarity



27.Nov 18 18:13

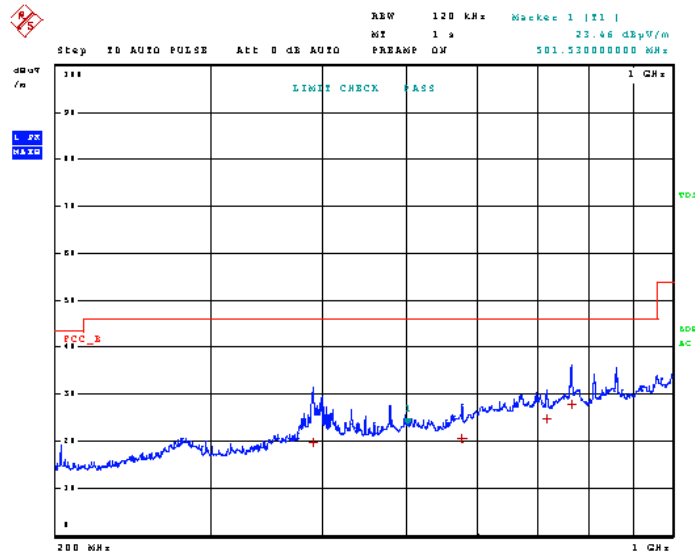
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

27.Nov 18 18:13

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 4

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	390.56000000 MHz	19.54	Quasi Peak	-26.46
1	576.92000000 MHz	20.50	Quasi Peak	-25.50
1	720.83000000 MHz	24.81	Quasi Peak	-21.19
1	769.40000000 MHz	27.02	Quasi Peak	-18.18

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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 40.84 MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:18

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	577.010000000 MHz	22.96	Quasi Peak	-23.04
1	624.200000000 MHz	24.12	Quasi Peak	-21.88
1	769.550000000 MHz	25.36	Quasi Peak	-20.64

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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 40.84 MHz Field Strength Plot, Vert. Polarity



27.Nov 18 18:17

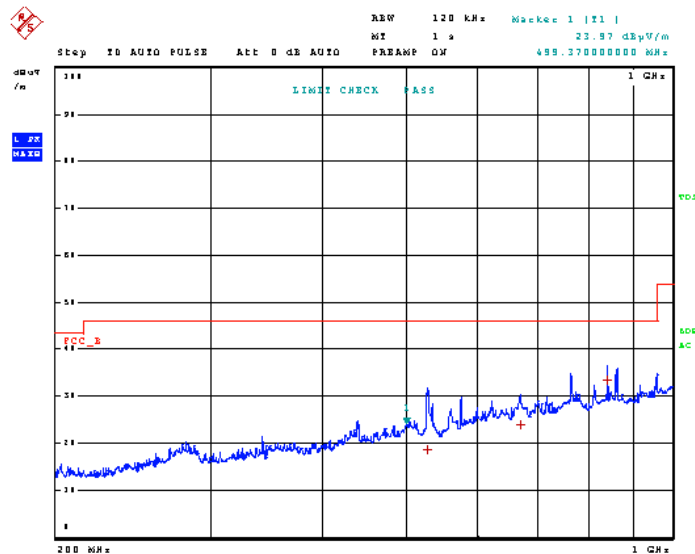
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 40.84 MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:17

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	527.360000000 MHz	18.61	Quasi Peak	-27.39
1	671.870000000 MHz	24.12	Quasi Peak	-21.88
1	843.200000000 MHz	33.57	Quasi Peak	-12.43

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Tuned to 107.1 MHz, Scanned 200 MHz to 1 GHz

Test Data: Middle of Band 107.1MHz Field Strength Plot, Horiz. Polarity



27.Nov 18 18:20

Test Spec CISPR 22 Radiated Disturbances

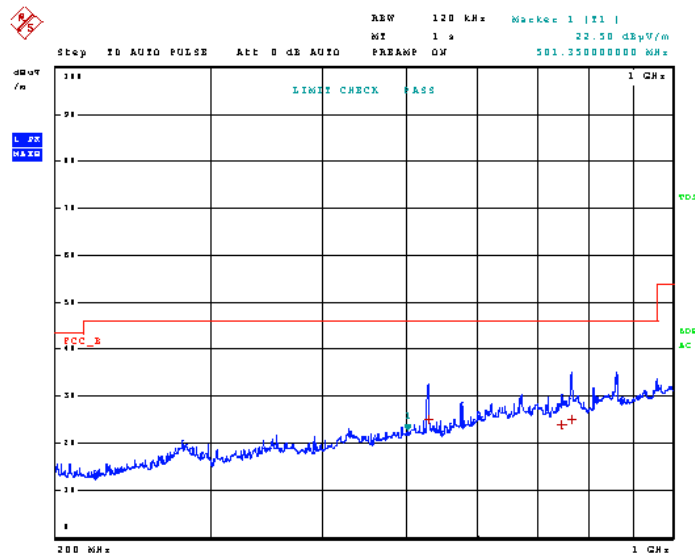
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 107.1MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:20

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	528.170000000 MHz	25.21	Quasi Peak	-20.79
1	749.510000000 MHz	23.95	Quasi Peak	-22.05
1	768.890000000 MHz	25.08	Quasi Peak	-20.92

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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 107.1MHz Field Strength Plot, Vert. Polarity



27.Nov 18 18:19

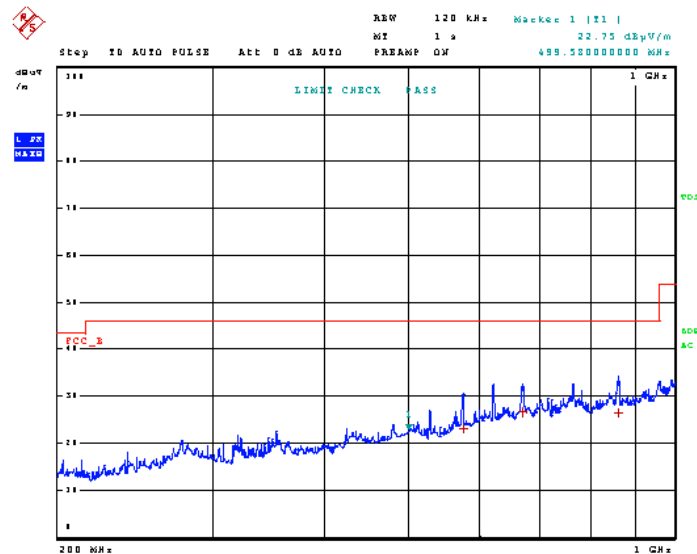
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 107.1MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:19

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	575.900000000 MHz	23.01	Quasi Peak	-22.99
1	671.570000000 MHz	26.49	Quasi Peak	-19.51
1	862.430000000 MHz	26.43	Quasi Peak	-19.57

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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

RADIATED SPURIOUS EMISSIONS

Tuned to 511.9125 MHz, Scanned 200 MHz to 1 GHz

Test Data: Middle of Band 511.9125MHz Field Strength Plot, Horiz. Polarity



27.Nov 18 18:22

Test Spec CISPR 22 Radiated Disturbances

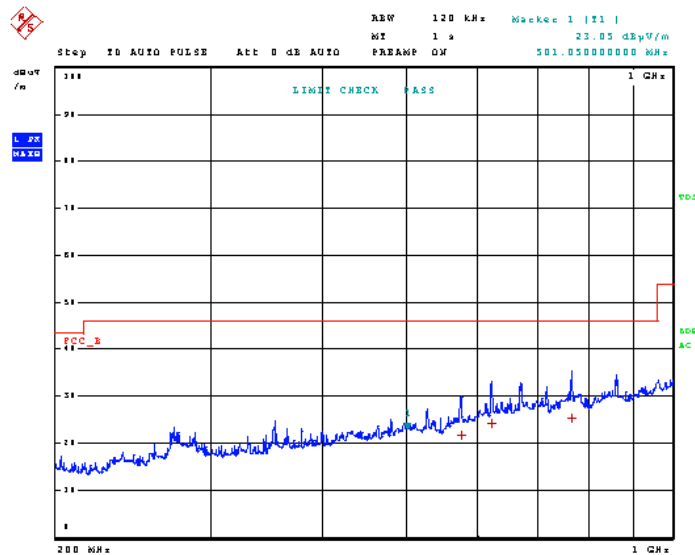
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 511.9125MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:22

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	576.14000000 MHz	21.70	Quasi Peak	-24.30
1	623.90000000 MHz	24.23	Quasi Peak	-21.77
1	769.16000000 MHz	25.24	Quasi Peak	-20.76

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 511.9125MHz Field Strength Plot, Vert. Polarity



27.Nov 18 18:21

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 511.9125MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:21

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	399.260000000 MHz	17.48	Quasi Peak	-28.52
1	672.860000000 MHz	23.47	Quasi Peak	-22.53
1	864.290000000 MHz	30.62	Quasi Peak	-15.38

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IC: 513C-UB384
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RADIATED SPURIOUS EMISSIONS

Tuned to 954.9125 MHz, Scanned 200 MHz to 1 GHz

Test Data: High End of Band 954.9125 MHz Field Strength Plot, Horiz. Polarity



27.Nov 18 18:24

Test Spec CISPR 22 Radiated Disturbances

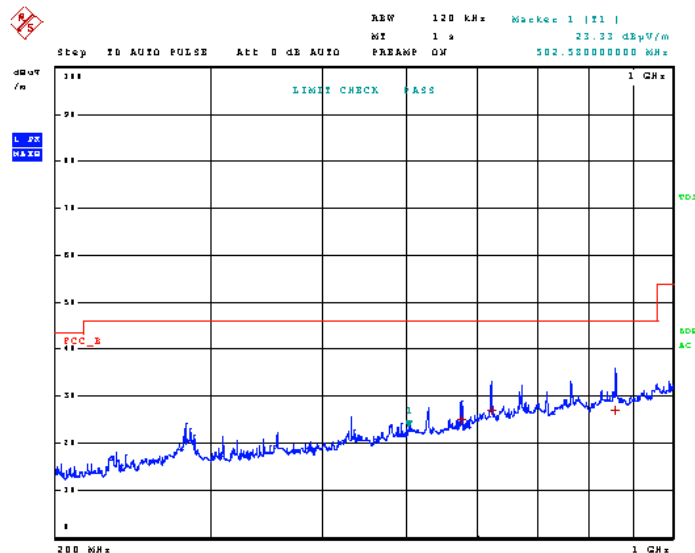
Polarity

Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 954.9125 MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:24

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	575.180000000 MHz	25.05	Quasi Peak	-20.95
1	623.060000000 MHz	26.90	Quasi Peak	-19.10
1	862.070000000 MHz	26.92	Quasi Peak	-19.08

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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 954.9125 MHz Field Strength Plot, Vert. Polarity



27.Nov 18 18:25

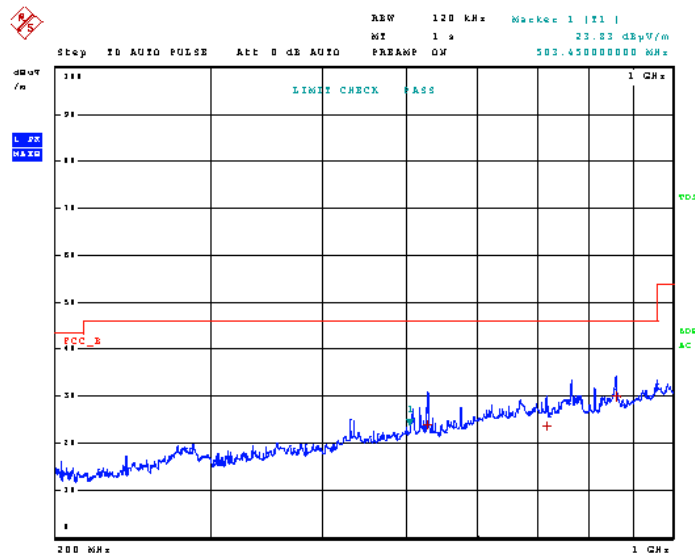
Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Time Domain Scan (1 Range)

Scan Start: 200 MHz
Scan Stop: 1 GHz
Detector: Trace 1: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
200.000000 MHz	1.000000 GHz	30.00 kHz	120.00 kHz	50 μ s	Auto	20 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 954.9125 MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:25

Test Spec CISPR 22 Radiated Disturbances

Polarity
Horizontal

Final Measurement

Meas Time: 1 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	527.24000000 MHz	23.89	Quasi Peak	-22.11
1	720.32000000 MHz	23.65	Quasi Peak	-22.35
1	862.91000000 MHz	29.91	Quasi Peak	-16.09

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Scanning Receiver Function, Scanned 1GHz to 12.5 GHz

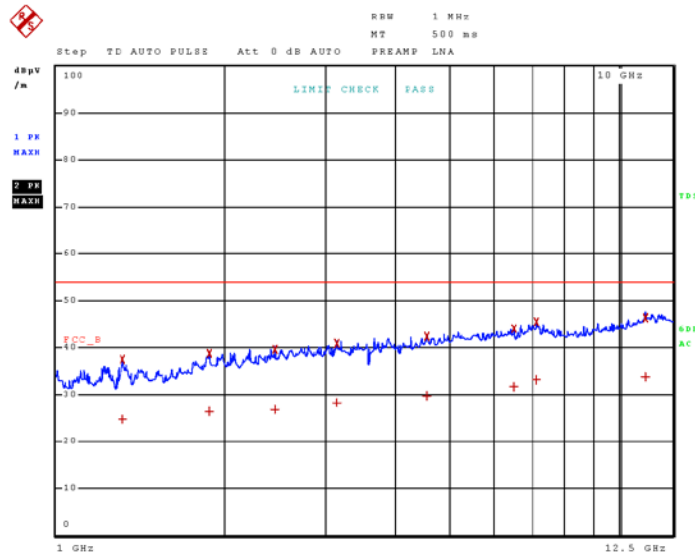
Test Data: Field Strength Plot, Horiz. Polarity

27.Nov 18 18:53

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Horiz. Polarity

27.Nov 18 18:53

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.313000000 GHz	24.61	CISPR Averag	-29.39
2	1.313000000 GHz	37.43	Max Peak	
1	1.875500000 GHz	26.41	CISPR Averag	-27.59
2	1.875500000 GHz	38.66	Max Peak	
1	2.442250000 GHz	26.82	CISPR Averag	-27.18
2	2.442250000 GHz	39.55	Max Peak	
1	3.161500000 GHz	28.36	CISPR Averag	-25.64
2	3.161500000 GHz	40.95	Max Peak	
1	4.553250000 GHz	29.79	CISPR Averag	-24.21
2	4.553250000 GHz	42.40	Max Peak	
1	6.501500000 GHz	31.60	CISPR Averag	-22.40
2	6.501500000 GHz	43.99	Max Peak	
1	7.148250000 GHz	33.09	CISPR Averag	-20.91
2	7.148250000 GHz	45.50	Max Peak	
1	11.145750000 GHz	33.70	CISPR Averag	-20.30
2	11.145750000 GHz	46.35	Max Peak	

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RADIATED SPURIOUS EMISSIONS

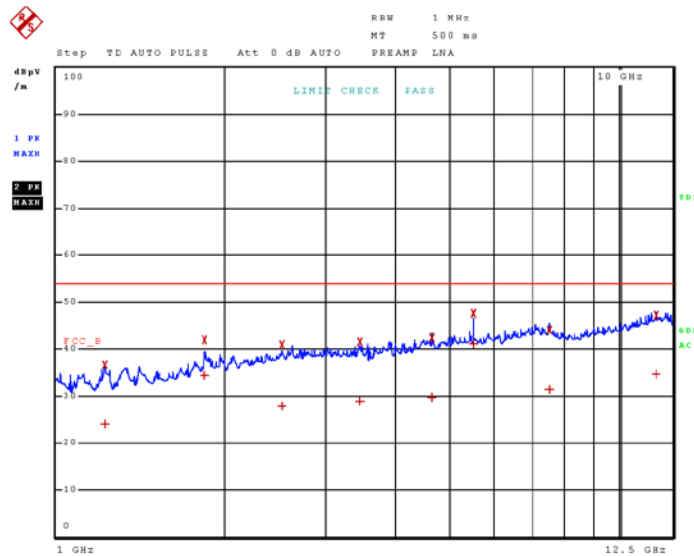
Test Data: Field Strength Plot, Vert. Polarity

27.Nov 18 18:54

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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RADIATED SPURIOUS EMISSIONS

Test Data: Field Strength Table, Vert. Polarity

27.Nov 18 18:54

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.217750000 GHz	24.08	CISPR Averag	-29.92
2	1.217750000 GHz	36.64	Max Peak	
1	1.838500000 GHz	34.29	CISPR Averag	-19.71
2	1.838500000 GHz	41.88	Max Peak	
1	2.511500000 GHz	27.79	CISPR Averag	-26.21
2	2.511500000 GHz	40.77	Max Peak	
1	3.469250000 GHz	28.78	CISPR Averag	-25.22
2	3.469250000 GHz	41.53	Max Peak	
1	4.663500000 GHz	29.80	CISPR Averag	-24.20
2	4.663500000 GHz	42.32	Max Peak	
1	5.515500000 GHz	41.06	CISPR Averag	-12.94
2	5.515500000 GHz	47.57	Max Peak	
1	7.532750000 GHz	31.48	CISPR Averag	-22.52
2	7.532750000 GHz	44.07	Max Peak	
1	11.658000000 GHz	34.54	CISPR Averag	-19.46
2	11.658000000 GHz	47.24	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Tuned to 40.84 MHz, Scanned 1 GHz to 12.5 GHz

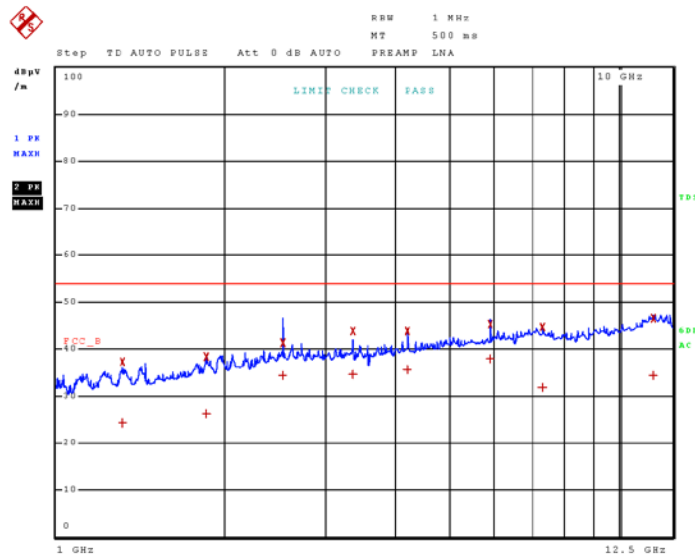
Test Data: Low End of Band 40.84 MHz Field Strength Plot, Horiz. Polarity

27.Nov 18 19:04

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 40.84 MHz Field Strength Table, Horiz. Polarity

27.Nov 18 19:04

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.309750000 GHz	24.30	CISPR Averag	-29.70
2	1.309750000 GHz	37.34	Max Peak	
1	1.853500000 GHz	26.14	CISPR Averag	-27.86
2	1.853500000 GHz	38.44	Max Peak	
1	2.529500000 GHz	34.25	CISPR Averag	-19.75
2	2.529500000 GHz	41.32	Max Peak	
1	3.372500000 GHz	34.51	CISPR Averag	-19.49
2	3.372500000 GHz	43.85	Max Peak	
1	4.215750000 GHz	35.64	CISPR Averag	-18.36
2	4.215750000 GHz	43.71	Max Peak	
1	5.902250000 GHz	38.00	CISPR Averag	-16.00
2	5.902250000 GHz	45.34	Max Peak	
1	7.325750000 GHz	31.74	CISPR Averag	-22.26
2	7.325750000 GHz	44.54	Max Peak	
1	11.512750000 GHz	34.25	CISPR Averag	-19.75
2	11.512750000 GHz	46.51	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

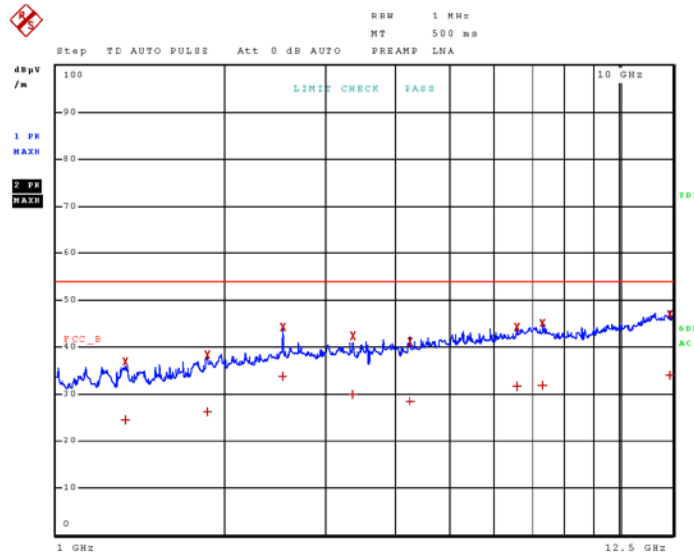
Test Data: Low End of Band 40.84 MHz Field Strength Plot, Vert. Polarity

27.Nov 18 19:05

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



RADIATED SPURIOUS EMISSIONS

Test Data: Low End of Band 40.84 MHz Field Strength Table, Vert. Polarity

27.Nov 18 19:05

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.328000000 GHz	24.38	CISPR Averag	-29.62
2	1.328000000 GHz	36.84	Max Peak	
1	1.853750000 GHz	26.14	CISPR Averag	-27.86
2	1.853750000 GHz	38.42	Max Peak	
1	2.529500000 GHz	33.69	CISPR Averag	-20.31
2	2.529500000 GHz	44.15	Max Peak	
1	3.372750000 GHz	29.98	CISPR Averag	-24.02
2	3.372750000 GHz	42.28	Max Peak	
1	4.266000000 GHz	28.38	CISPR Averag	-25.62
2	4.266000000 GHz	41.11	Max Peak	
1	6.597250000 GHz	31.55	CISPR Averag	-22.45
2	6.597250000 GHz	44.28	Max Peak	
1	7.328500000 GHz	31.91	CISPR Averag	-22.09
2	7.328500000 GHz	45.13	Max Peak	
1	12.358500000 GHz	33.89	CISPR Averag	-20.11
2	12.358500000 GHz	47.03	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Tuned to 107.1 MHz, Scanned 1 GHz to 12.5 GHz

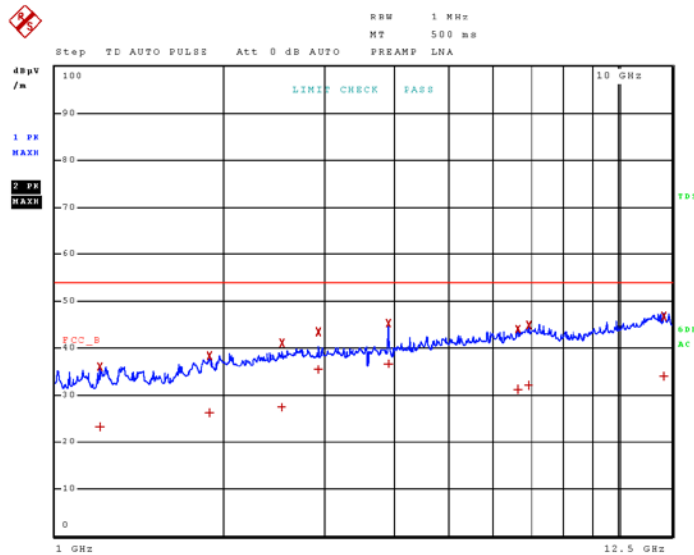
Test Data: Middle of Band 107.1MHz Field Strength Plot, Horiz. Polarity

27.Nov 18 19:03

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 107.1MHz Field Strength Table, Horiz. Polarity

27.Nov 18 19:03

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.200250000 GHz	23.20	CISPR Averag	-30.80
2	1.200250000 GHz	36.06	Max Peak	
1	1.879250000 GHz	26.14	CISPR Averag	-27.86
2	1.879250000 GHz	38.43	Max Peak	
1	2.527000000 GHz	27.48	CISPR Averag	-26.52
2	2.527000000 GHz	41.08	Max Peak	
1	2.929500000 GHz	35.49	CISPR Averag	-18.51
2	2.929500000 GHz	43.41	Max Peak	
1	3.906000000 GHz	36.72	CISPR Averag	-17.28
2	3.906000000 GHz	45.24	Max Peak	
1	6.640000000 GHz	31.20	CISPR Averag	-22.80
2	6.640000000 GHz	44.07	Max Peak	
1	6.942000000 GHz	31.99	CISPR Averag	-22.01
2	6.942000000 GHz	44.89	Max Peak	
1	12.125250000 GHz	33.86	CISPR Averag	-20.14
2	12.125250000 GHz	46.69	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

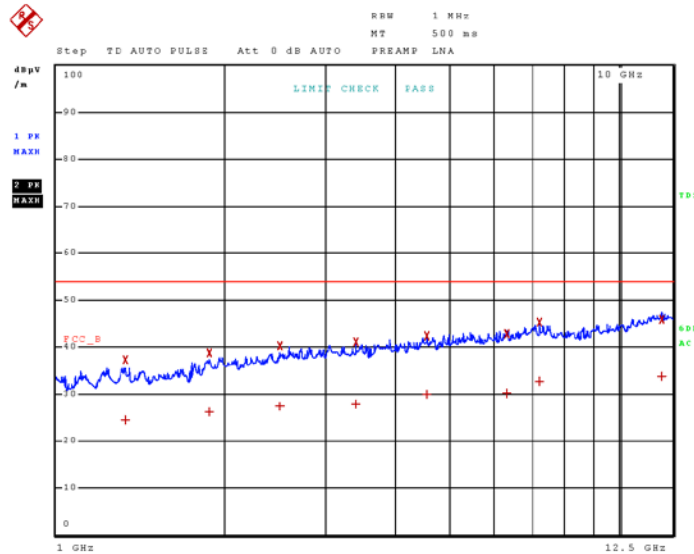
Test Data: Middle of Band 107.1MHz Field Strength Plot, Vert. Polarity

27.Nov 18 19:02

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 107.1 MHz Field Strength Table, Vert. Polarity

27.Nov 18 19:02

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.326250000 GHz	24.50	CISPR Averag	-29.50
2	1.326250000 GHz	37.35	Max Peak	
1	1.875250000 GHz	26.21	CISPR Averag	-27.79
2	1.875250000 GHz	38.75	Max Peak	
1	2.499250000 GHz	27.42	CISPR Averag	-26.58
2	2.499250000 GHz	40.17	Max Peak	
1	3.404250000 GHz	27.78	CISPR Averag	-26.22
2	3.404250000 GHz	41.06	Max Peak	
1	4.558000000 GHz	29.91	CISPR Averag	-24.09
2	4.558000000 GHz	42.29	Max Peak	
1	6.342750000 GHz	30.15	CISPR Averag	-23.85
2	6.342750000 GHz	42.72	Max Peak	
1	7.247750000 GHz	32.59	CISPR Averag	-21.41
2	7.247750000 GHz	45.28	Max Peak	
1	11.933750000 GHz	33.76	CISPR Averag	-20.24
2	11.933750000 GHz	45.85	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
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RADIATED SPURIOUS EMISSIONS

Tuned to 511.9125 MHz, Scanned 1 GHz to 12.5 GHz

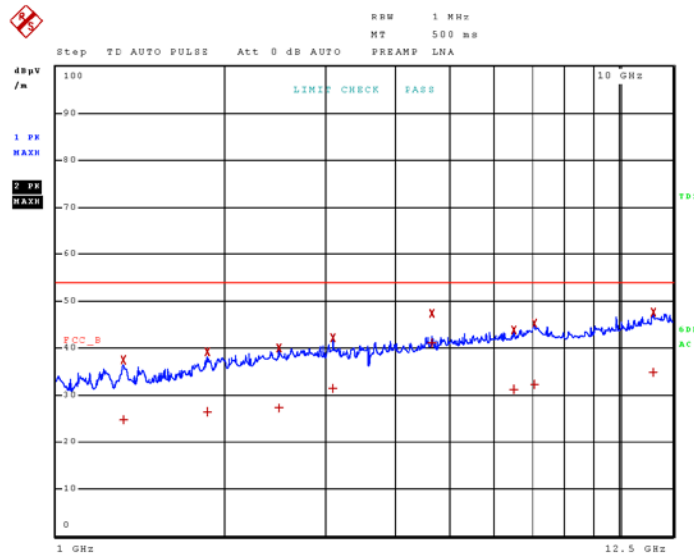
Test Data: Middle of Band 511.9125 MHz Field Strength Plot, Horiz. Polarity

27.Nov 18 18:58

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 511.9125 MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:58

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.314750000 GHz	24.60	CISPR Averag	-29.40
2	1.314750000 GHz	37.40	Max Peak	
1	1.855500000 GHz	26.34	CISPR Averag	-27.66
2	1.855500000 GHz	39.20	Max Peak	
1	2.490750000 GHz	27.24	CISPR Averag	-26.76
2	2.490750000 GHz	40.10	Max Peak	
1	3.109750000 GHz	31.45	CISPR Averag	-22.55
2	3.109750000 GHz	42.15	Max Peak	
1	4.664750000 GHz	40.99	CISPR Averag	-13.01
2	4.664750000 GHz	47.46	Max Peak	
1	6.515250000 GHz	31.28	CISPR Averag	-22.72
2	6.515250000 GHz	43.75	Max Peak	
1	7.082000000 GHz	32.15	CISPR Averag	-21.85
2	7.082000000 GHz	45.25	Max Peak	
1	11.526000000 GHz	34.80	CISPR Averag	-19.20
2	11.526000000 GHz	47.63	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
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RADIATED SPURIOUS EMISSIONS

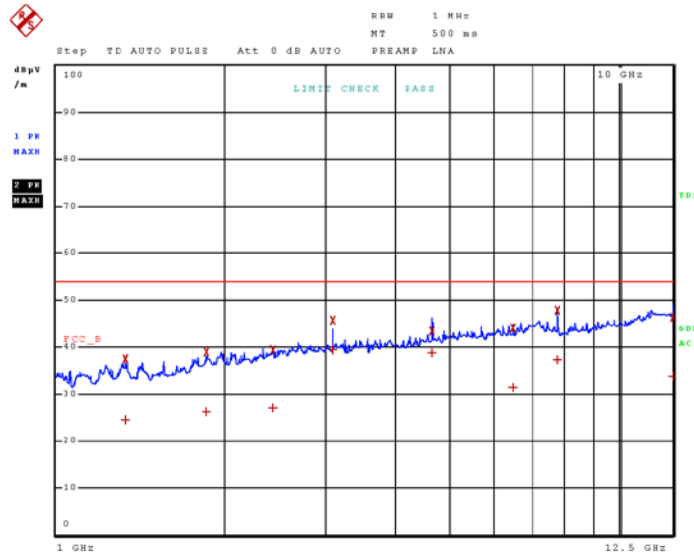
Test Data: Middle of Band 511.9125 MHz Field Strength Plot, Vert. Polarity

27.Nov 18 19:00

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: Middle of Band 511.9125 MHz Field Strength Table, Vert. Polarity

27.Nov 18 19:00

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.325750000 GHz	24.47	CISPR Averag	-29.53
2	1.325750000 GHz	37.56	Max Peak	
1	1.853250000 GHz	26.17	CISPR Averag	-27.83
2	1.853250000 GHz	39.01	Max Peak	
1	2.430250000 GHz	26.93	CISPR Averag	-27.07
2	2.430250000 GHz	39.30	Max Peak	
1	3.110000000 GHz	39.32	CISPR Averag	-14.68
2	3.110000000 GHz	45.61	Max Peak	
1	4.664750000 GHz	38.73	CISPR Averag	-15.27
2	4.664750000 GHz	43.39	Max Peak	
1	6.485750000 GHz	31.35	CISPR Averag	-22.65
2	6.485750000 GHz	43.98	Max Peak	
1	7.774500000 GHz	37.24	CISPR Averag	-16.76
2	7.774500000 GHz	47.74	Max Peak	
1	12.498000000 GHz	33.76	CISPR Averag	-20.24
2	12.498000000 GHz	46.36	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Tuned to 954.9125 MHz, Scanned 1 GHz to 12.5 GHz

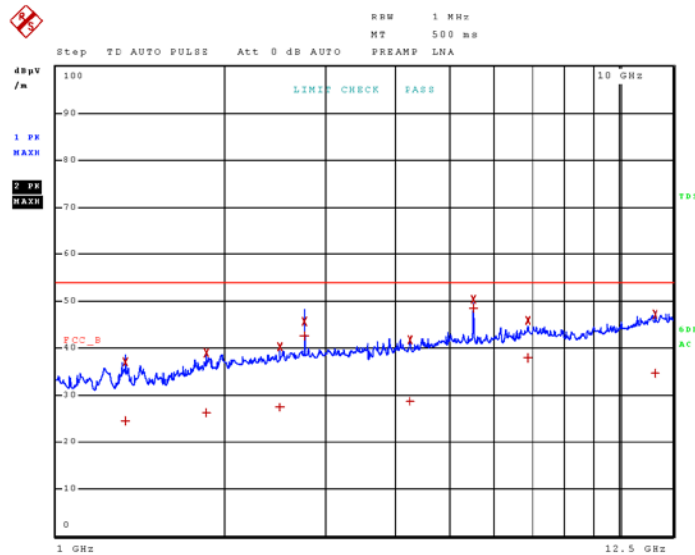
Test Data: High End of Band 954.9125 MHz Field Strength Plot, Horiz. Polarity

27.Nov 18 18:57

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 954.9125 MHz Field Strength Table, Horiz. Polarity

27.Nov 18 18:57

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBμV/m)	Detector	Delta Limit/dB
1	1.329500000 GHz	24.46	CISPR Averag	-29.54
2	1.329500000 GHz	37.15	Max Peak	
1	1.852750000 GHz	26.20	CISPR Averag	-27.80
2	1.852750000 GHz	39.06	Max Peak	
1	2.499500000 GHz	27.51	CISPR Averag	-26.49
2	2.499500000 GHz	40.22	Max Peak	
1	2.757500000 GHz	42.61	CISPR Averag	-11.39
2	2.757500000 GHz	45.79	Max Peak	
1	4.253500000 GHz	28.74	CISPR Averag	-25.26
2	4.253500000 GHz	41.66	Max Peak	
1	5.515000000 GHz	48.44	CISPR Averag	-5.56
2	5.515000000 GHz	50.36	Max Peak	
1	6.893500000 GHz	37.90	CISPR Averag	-16.10
2	6.893500000 GHz	45.98	Max Peak	
1	11.620500000 GHz	34.63	CISPR Averag	-19.37
2	11.620500000 GHz	47.17	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

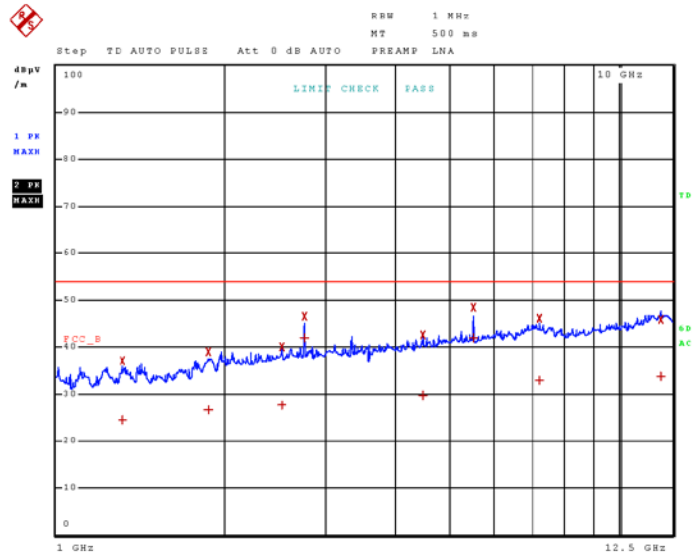
Test Data: High End of Band 954.9125 MHz Field Strength Plot, Vert. Polarity

27.Nov 18 18:56

Time Domain Scan (1 Range)

Scan Start: 1 GHz
Scan Stop: 12.5 GHz
Detector: Trace 1: MAX PEAK Trace 2: MAX PEAK
Transducer: TDS_01

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
1.000000 GHz	12.500000 GHz	250.00 kHz	1.00 MHz	100 μ s	Auto	35 dB	INPUT1



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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

Test Data: High End of Band 954.9125 MHz Field Strength Table, Vert. Polarity

27.Nov 18 18:56

Final Measurement

Meas Time: 500 ms
Margin: 40 dB
Subranges: 16

Trace	Frequency	Level (dBµV/m)	Detector	Delta Limit/dB
1	1.311000000 GHz	24.45	CISPR Averag	-29.55
2	1.311000000 GHz	37.13	Max Peak	
1	1.867500000 GHz	26.51	CISPR Averag	-27.49
2	1.867500000 GHz	38.88	Max Peak	
1	2.516750000 GHz	27.72	CISPR Averag	-26.28
2	2.516750000 GHz	39.95	Max Peak	
1	2.757500000 GHz	41.85	CISPR Averag	-12.15
2	2.757500000 GHz	46.55	Max Peak	
1	4.485250000 GHz	29.75	CISPR Averag	-24.25
2	4.485250000 GHz	42.52	Max Peak	
1	5.515000000 GHz	41.84	CISPR Averag	-12.16
2	5.515000000 GHz	48.38	Max Peak	
1	7.249500000 GHz	32.79	CISPR Averag	-21.21
2	7.249500000 GHz	46.04	Max Peak	
1	11.892000000 GHz	33.80	CISPR Averag	-20.20
2	11.892000000 GHz	45.92	Max Peak	

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Applicant: UNIDEN AMERICA CORPORATION
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RADIATED SPURIOUS EMISSIONS

ANTENNA CONDUCTED POWER

Rule Part No.: FCC Part 15 Subpart B, RSS-GEN

Requirements: FCC Part 15.111(a) Antenna power conduction limits for receivers
In addition to the radiated emission limits. Receivers that operate (tune) in the frequency range 30 to 960 MHz and CB receivers that provide terminals for the connection of an external receiving antenna may be tested to demonstrate compliance with the provisions of §15.109 with the antenna terminals shielded and terminated with a resistive termination equal to the impedance specified for the antenna. Provided these receivers also comply with the following: With the receiver antenna terminal connected to a resistive termination equal to the impedance specified or employed for the antenna, the power at the antenna terminal at any frequency within the range of measurements specified in §15.33 shall not exceed 2.0 nanowatts.

Procedure: FCC Part 15.33(b)(3) Frequency range of radiated measurements

FCC Part 15.35(a) Measurement detector functions and bandwidths

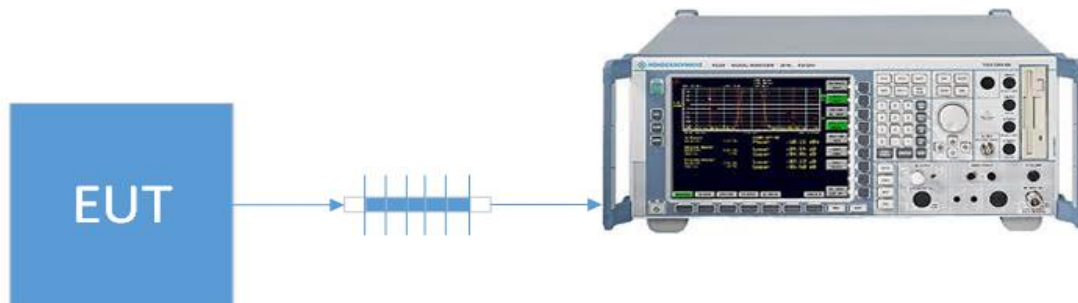
ANSI C63.4 Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment 9 kHz to 40 GHz

§ 12.2.2 Operating conditions

§ 12.2.6 Antenna-conducted power measurements

Configuration: The scanner receiver spurious emissions are to be measured when the receiver is in the scanning mode and repeated when the scanning is stopped.

Setup:



Results: N/A

POWER LINE CONDUCTED INTERFERENCE

Rules Part No.: Part 15.107, RSS-GEN

Requirements:

Frequency (MHz)	Quasi Peak Limits (dB μ V)	Average Limits (dB μ V)
0.15 – 0.5	66 – 56 *	56 – 46 *
0.5 – 5.0	56	46
5.0 – 30	60	50
* Decrease with logarithm of frequency		

Test Data: The following plots represent the emissions for power line conducted. Both lines were observed. 120 Volts AC 60 Hz supply voltage was used for all tests

POWER LINE CONDUCTED INTERFERENCE

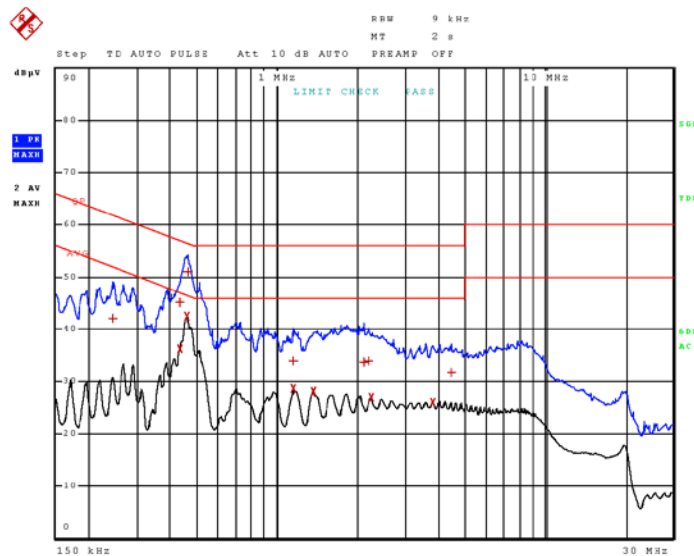
Test Data: Scanning, Line 1 Peak Plot

27.Nov 18 19:09

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Scanning, Line 1 Peak Plot Table

27.Nov 18 19:09

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 13

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	242.250000000 kHz	42.09	Quasi Peak	-19.93
1	431.250000000 kHz	45.01	Quasi Peak	-12.22
2	431.250000000 kHz	36.28	Average	-10.95
2	458.250000000 kHz	42.41	Average	-4.31
1	460.500000000 kHz	50.92	Quasi Peak	-5.76
1	1.151250000 MHz	34.01	Quasi Peak	-21.99
2	1.153500000 MHz	28.63	Average	-17.37
2	1.358250000 MHz	27.99	Average	-18.01
1	2.098500000 MHz	33.81	Quasi Peak	-22.19
1	2.186250000 MHz	33.85	Quasi Peak	-22.15
2	2.244750000 MHz	26.97	Average	-19.03
2	3.813000000 MHz	26.05	Average	-19.95
1	4.467750000 MHz	31.76	Quasi Peak	-24.24

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.28
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

Page 2 of 2

Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

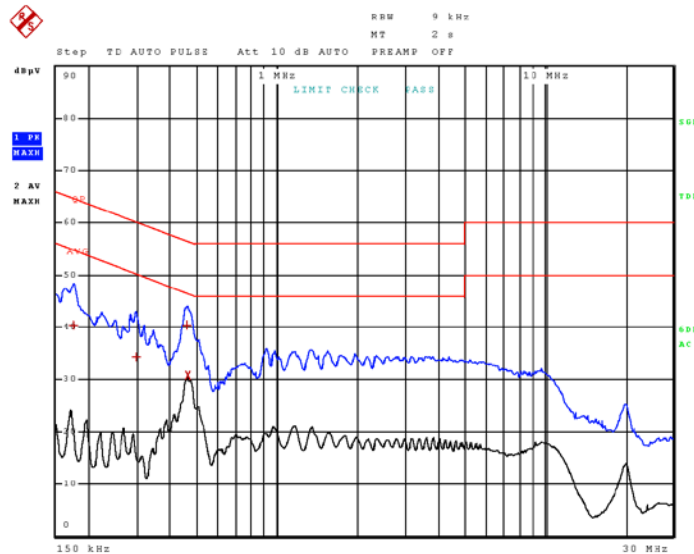
Test Data: Scanning, Line 2 Peak Plot

27.Nov 18 19:14

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 4

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	172.500000000 kHz	40.43	Quasi Peak	-24.41
1	296.250000000 kHz	34.23	Quasi Peak	-26.12
1	458.250000000 kHz	40.45	Quasi Peak	-16.28
2	460.500000000 kHz	30.67	Average	-16.01

Page 1 of 2

Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Scanning, Line 2 Peak Plot Table

27.Nov 18 19:14

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.20
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

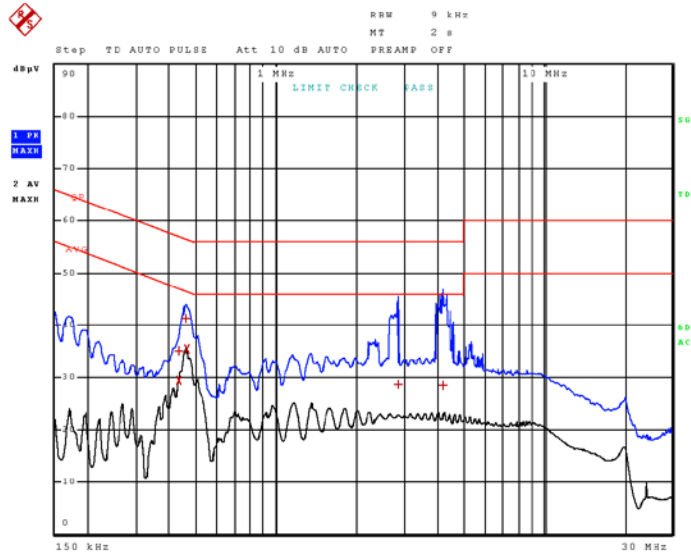
Test Data: Tuned to 40.84 MHz, Line 1 Peak Plot

27.Nov 18 19:32

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 6

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	431.25000000 kHz	35.05	Quasi Peak	-22.18
2	431.25000000 kHz	29.44	Average	-17.79
1	458.25000000 kHz	41.27	Quasi Peak	-15.45
2	460.50000000 kHz	35.53	Average	-11.15
1	2.863500000 MHz	28.62	Quasi Peak	-27.38
1	4.182000000 MHz	28.41	Quasi Peak	-27.59

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 40.84 MHz, Line 1 Peak Plot Table

27.Nov 18 19:32

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

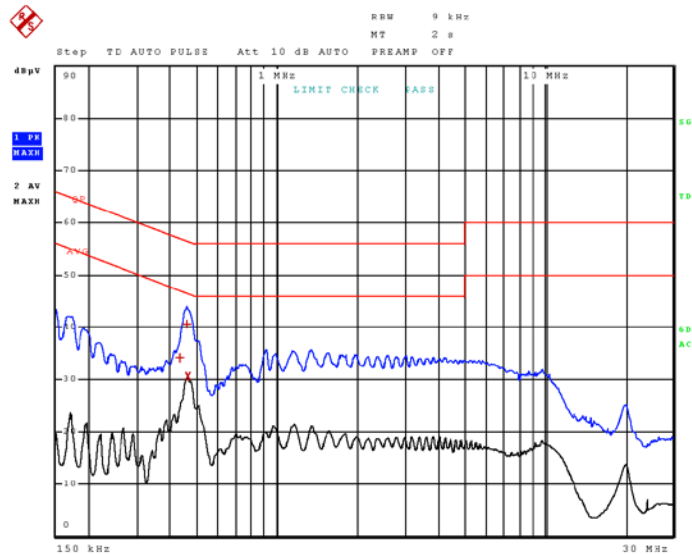
Test Data: Tuned to 40.84 MHz, Line 2 Peak Plot

27.Nov 18 19:31

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	431.25000000 kHz	34.20	Quasi Peak	-23.03
1	458.25000000 kHz	40.64	Quasi Peak	-16.09
2	460.50000000 kHz	30.56	Average	-16.12

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 40.84 MHz, Line 2 Peak Plot Table

27.Nov 18 19:31

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

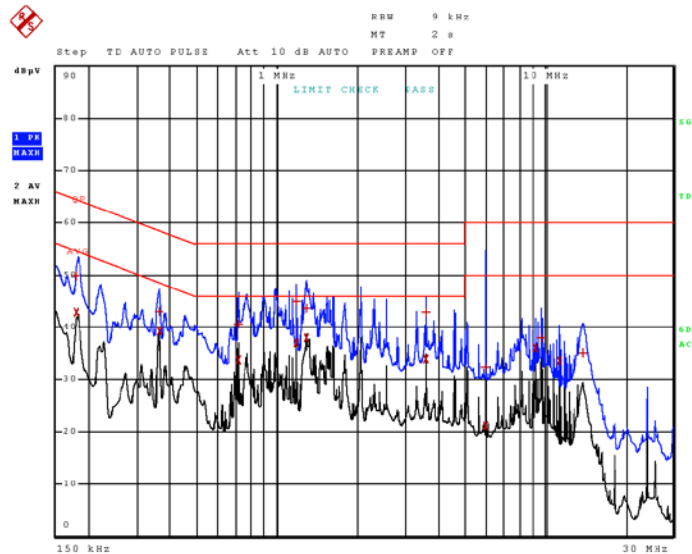
Test Data: Tuned to 107.1 MHz, Line 1 Peak Plot

27.Nov 18 19:27

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 107.1 MHz, Line 1 Peak Plot Table

27.Nov 18 19:27

Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 18

Trace	Frequency	Level (dBµV)	Detector	Delta Limit/dB
1	179.250000000 kHz	49.77	Quasi Peak	-14.75
2	179.250000000 kHz	42.84	Average	-11.68
2	359.250000000 kHz	39.25	Average	-9.50
1	361.500000000 kHz	42.96	Quasi Peak	-15.73
1	710.250000000 kHz	40.54	Quasi Peak	-15.46
2	710.250000000 kHz	33.72	Average	-12.28
1	1.180500000 MHz	44.89	Quasi Peak	-11.11
2	1.180500000 MHz	36.97	Average	-9.03
1	1.288500000 MHz	43.58	Quasi Peak	-12.42
2	1.288500000 MHz	37.97	Average	-8.03
1	3.583500000 MHz	42.86	Quasi Peak	-13.14
2	3.583500000 MHz	33.87	Average	-12.13
1	5.991000000 MHz	32.29	Quasi Peak	-27.71
2	5.991000000 MHz	21.01	Average	-28.99
2	9.224250000 MHz	36.02	Average	-13.98
1	9.690000000 MHz	37.83	Quasi Peak	-22.17
2	11.265000000 MHz	33.59	Average	-16.41
1	13.816500000 MHz	35.08	Quasi Peak	-24.92

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)	15.00 MHz	1.08
150.00 kHz	0.19	20.00 MHz	1.01
170.00 kHz	0.17	30.00 MHz	1.80
200.00 kHz	0.16		
250.00 kHz	0.13		
300.00 kHz	0.12		
350.00 kHz	0.12		
400.00 kHz	0.11		
500.00 kHz	0.12		
600.00 kHz	0.12		
700.00 kHz	0.11		
800.00 kHz	0.13		
900.00 kHz	0.12		
1.00 MHz	0.21		
1.20 MHz	0.22		
1.50 MHz	0.28		
2.00 MHz	0.37		
2.50 MHz	0.41		
3.00 MHz	0.59		
4.00 MHz	0.40		
5.00 MHz	0.47		
7.00 MHz	0.63		
10.00 MHz	0.88		

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

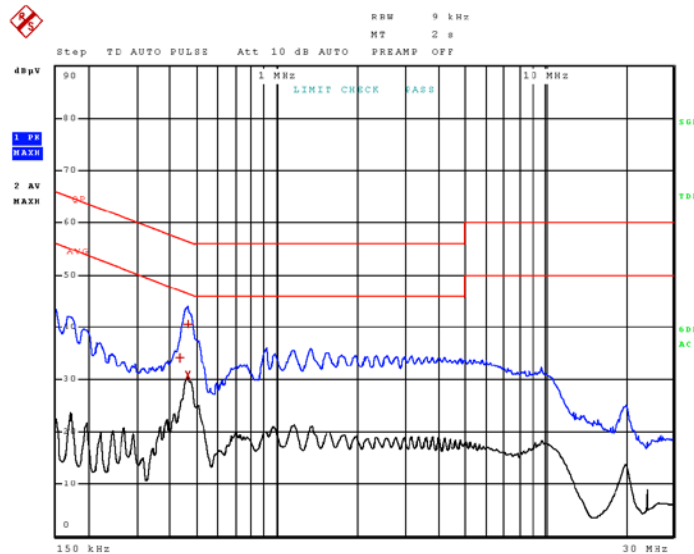
Test Data: Tuned to 107.1 MHz, Line 2 Peak Plot

27.Nov 18 19:29

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 3

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	431.25000000 kHz	34.12	Quasi Peak	-23.11
1	460.50000000 kHz	40.56	Quasi Peak	-16.13
2	460.50000000 kHz	30.67	Average	-16.01

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 107.1 MHz, Line 2 Peak Plot Table

27.Nov 18 19:29

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.26
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

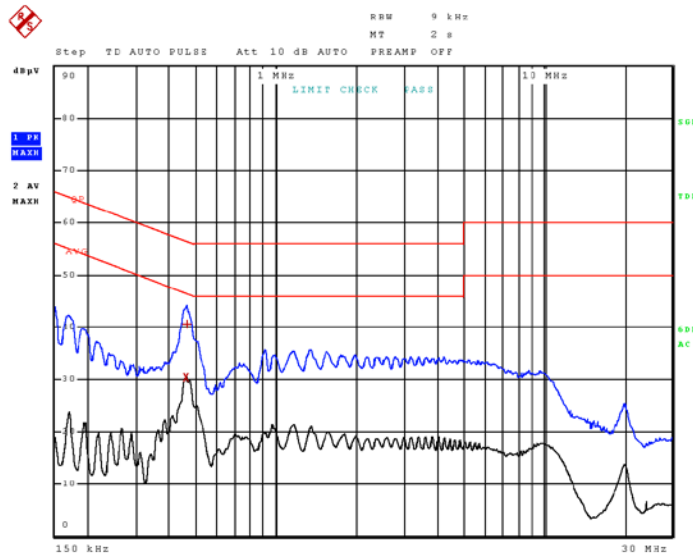
Test Data: Tuned to 511.9125 MHz, Line 1 Peak Plot

27.Nov 18 19:23

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 2

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
2	458.25000000 kHz	30.38	Average	-16.35
1	460.50000000 kHz	40.52	Quasi Peak	-16.16

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 511.9125 MHz, Line 1 Peak Plot Table

27.Nov 18 19:23

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.20
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

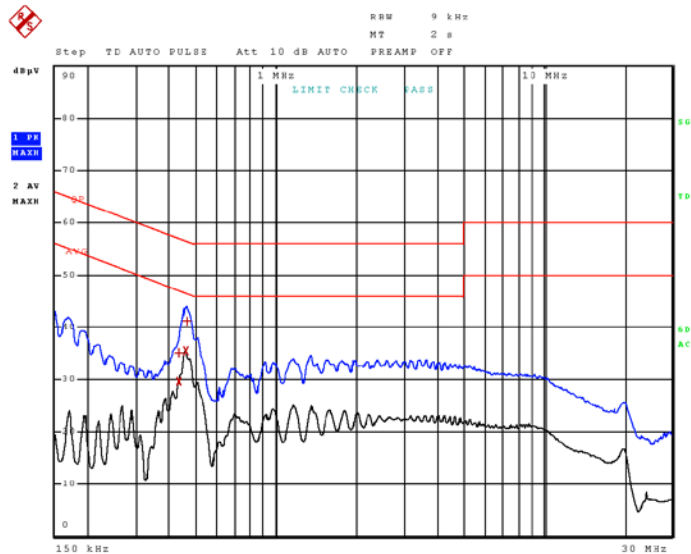
Test Data: Tuned to 511.9125 MHz, Line 2 Peak Plot

27.Nov 18 19:25

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 4

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	431.25000000 kHz	35.06	Quasi Peak	-22.17
2	431.25000000 kHz	29.54	Average	-17.69
2	458.25000000 kHz	35.53	Average	-11.20
1	460.50000000 kHz	41.12	Quasi Peak	-15.56

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 511.9125 MHz, Line 2 Peak Plot Table

27.Nov 18 19:25

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.20
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

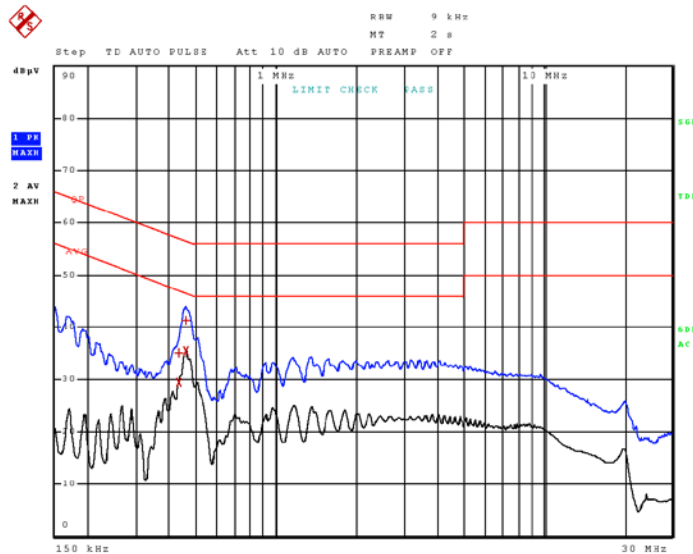
Test Data: Tuned to 954.9125 MHz, Line 1 Peak Plot

27.Nov 18 19:19

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 4

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	431.25000000 kHz	35.15	Quasi Peak	-22.08
2	431.25000000 kHz	29.46	Average	-17.77
1	458.25000000 kHz	41.23	Quasi Peak	-15.49
2	458.25000000 kHz	35.51	Average	-11.21

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 954.9125 MHz, Line 1 Peak Plot Table

27.Nov 18 19:19

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.20
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

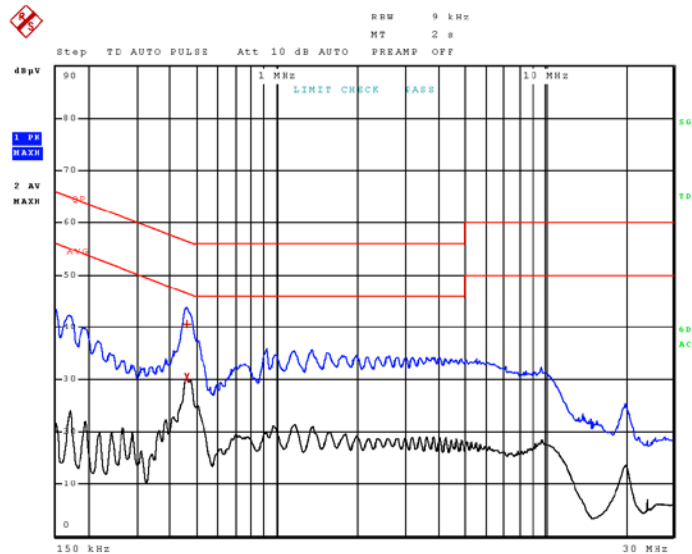
Test Data: Tuned to 954.9125 MHz, Line 2 Peak Plot

27.Nov 18 19:21

Time Domain Scan (1 Range)

Scan Start: 150 kHz
Scan Stop: 30 MHz
Detector: Trace 1: MAX PEAK Trace 2: Average
Transducer: tdf_20

Start Frequency	Stop Frequency	Step Size	Res BW	Meas Time	RF Atten	Preamp	Input
150.000000 kHz	30.000000 MHz	2.25 kHz	9.00 kHz	500 ms	Auto	0 dB	INPUT2



Final Measurement

Meas Time: 2 s
Margin: 20 dB
Subranges: 2

Trace	Frequency	Level (dBμV)	Detector	Delta Limit/dB
1	458.25000000 kHz	40.58	Quasi Peak	-16.14
2	458.25000000 kHz	30.38	Average	-16.34

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

POWER LINE CONDUCTED INTERFERENCE

Test Data: Tuned to 954.9125 MHz, Line 2 Peak Plot Table

27.Nov 18 19:21

Transducer Table

Name: tdf_20
Interpolation: LIN
Comment: ANS 25/2 Primary LISN IL Line 1 + Coax Cable IL

Frequency	Factor (dB)
150.00 kHz	0.19
170.00 kHz	0.17
200.00 kHz	0.16
250.00 kHz	0.13
300.00 kHz	0.12
350.00 kHz	0.12
400.00 kHz	0.11
500.00 kHz	0.12
600.00 kHz	0.12
700.00 kHz	0.11
800.00 kHz	0.13
900.00 kHz	0.12
1.00 MHz	0.21
1.20 MHz	0.22
1.50 MHz	0.20
2.00 MHz	0.37
2.50 MHz	0.41
3.00 MHz	0.59
4.00 MHz	0.40
5.00 MHz	0.47
7.00 MHz	0.63
10.00 MHz	0.88
15.00 MHz	1.08
20.00 MHz	1.01
30.00 MHz	1.80

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Results Meets Requirements

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1

TEST EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconical 1057	Eaton	94455-1	1057	12/13/17	12/13/19
Antenna: Log-Periodic 1122	Electro-Metrics	LPA-25	1122	07/26/17	07/26/19
Coaxial Cable - Chamber 3 cable set (backup)	Micro-Coax	Chamber 3 cable set (backup)	KMKM-0244-02; KMKM-0670-01; KFKF-0197-00	N/A	N/A
CHAMBER	Panashield	3M	N/A	05/05/17	05/05/19
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	04/01/16	04/01/19
Bore-sight Antenna Positioning Tower	Sunol Sciences	TLT2	N/A	N/A	N/A
Coaxial Cable - BMBM-1000-00 Silver	Semflex	LISN Cable	BMBM-1000-00	01/05/17	01/05/19
LISN (Primary)	Electro-Metrics	ANS-25/2	225363	08/26/17	08/26/19
Antenna: Double-Ridged Horn/ETS Horn 2	ETS-Lindgren	3117	00041534	03/01/17	03/01/19

*EMI RECEIVER SOFTWARE VERSION

The receiver firmware used was version 4.43 Service Pack 3

END OF TEST REPORT

Applicant: UNIDEN AMERICA CORPORATION
FCC ID: AMWUB384
IC: 513C-UB384
Report: 2014AUT18TestReport_Rev1