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FCC PART 15.249 & IC RSS-210 (i8) ANNEX A2.9 UNLICENSED INTENTIONAL RADIATOR COMBINED TEST REPORT

Applicant	BUILDING 36 TECHNOLOGIES, LLC				
Address	35 HIGHLAND CIRCLE SUITE 300 NEEDHAM MA 02494 USA				
FCC ID	2AC3T-B36T10RB				
IC Certification Number	12323A-B36T10RB				
Model Number	B36-T10 RB				
Product Description	THERMOSTAT				
FCC Standard Applied	47 CFR §15.249				
Industry Canada Standard Applied	RSS-210 Issue 8 Annex A2.9				
Date Sample Received	12/5/2014				
Date Tested	12/15/2014				
Tested By	Cory Leverett				
Approved By	Sid Sanders				
Report Number	2235AUT14TestReport.docx				
Test Results					

THE ATTACHED REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL WITHOUT THE WRITTEN APPROVAL OF TIMCO ENGINEERING, INC.



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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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GENERAL REMARKS

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Summary

The device under test does:

fulfill the general approval requirements as identified in this test report 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: 2005 requirements.

I attest that the necessary measurements were made, under my supervision, at:

Timco Engineering Inc. 849 NW State Road 45 Newberry, FI 32669

Authorized Signatory Name:

Cory Leverett
Engineering Project Manager
Date: 12/15/2014

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GENERAL INFORMATION

EUT Specification

The test results relate only to the items tested.					
Applicable Standards	FCC Part 15.249 & IC RSS-210 (i8), RSS-GEN (i4)				
EUT Description	THERMOSTAT				
FCC ID	2AC3T-B36T10	DRB			
IC Certification Number	12323A-B36T1	IOR	В		
Model Number	B36-T10 RB				
Operating Frequency	TX: 908.4 MHz	z &	916 MHz	RX: San	ne
No. of Channels	2	Mo	odulation	S	QPSK
	☐ 110–120Va	c/5	0– 60Hz w	hen Cha	rging
EUT Power Source	☐ DC Power				
	Battery Ope	erat	ed Exclusi	vely	
Test Item	☐ Prototype	ype Pre- Production		□ Production	
Type of Equipment			☐ Mobile		☐ Portable
Antenna Connector	FCC Rules require that the antenna connector be unique. There is no antenna connector, it has an integrated PCB antenna				
Test Facility	Timco Engineering Inc. located at 849 NW State Road 45 Newberry, FL 32669 USA.				
Conditions in the Test	Temperature:	24-	26°C		
laboratory	Relative humidity: 50-65%				
Test Exercise	The sample was programmed through a PC connected to a wireless programming board. Power attenuation setting				
1631 EXCICISE	was 9, the bandwidth (baud rate) tested was 100KHz				
Revision History of EUT	None				

TEST RESULTS SUMMARY

FCC Rules Part No.	Industry Canada Rules	RESULTS - Pass/Fail/NA
15.249 Fundamental Emission	RSS-210 (i8) ANNEX	Pass
	A2.9, RSS-GEN (i4)	
15.249 & 15.209 Harmonics &	RSS-210 (i8) ANNEX	Pass
Spurious	A2.9, RSS-GEN (i4)	
15.205 & 2.202 Occupied	RSS-GEN (i4), 4.6	Pass
Bandwidth		
15.249 & 15.205 Bandedge	RSS-GEN (i4), 4.6	Pass
Compliance		
15.207 Power Line Emissions	RSS-GEN (i4), 7.2.4	Not Applicable

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TEST PROCEDURES

Radiation Interference: ANSI C63.4-2003 using a spectrum analyzer, a preselector, a quasi-peak adapter, and an appropriate antenna. The analyzer was calibrated in dB above a microvolt at the output of the antenna. The resolution bandwidth was 100 kHz with an appropriate sweep speed and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worst case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental. Emissions were scanned from 30MHz to the tenth harmonic of the fundamental frequency at three places in the band. All emissions greater than 20 dB from the limit are not reported.

Formula Of Conversion Factors: The field strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer. The antenna correction factors are stated in terms of dB. The gain of the preselector was accounted for in the spectrum analyzer meter reading.

Example:

Freq (MHz) Meter Reading + ACF + CL = FS

33 20 dBuV + 10.36 dB + 0.5 = 30.86 dBuV/m @ 3m

Power Line Conducted Interference: The procedure used was ANSI C63.4-2003 using a 50uH LISN. Both lines were observed. The bandwidth of the spectrum analyzer was 10kHz with an appropriate sweep speed. The spectrum was scanned from 0.15 to 30 MHz.

Occupied Bandwidth: A small sample of the transmitter output was fed into the spectrum analyzer and the attached plot was printed. The vertical scale is set to -10 dBm per division.

ANSI C63.4-2003 10.1 Measurement Procedures: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes. Emissions attenuated more than 20 dB below the permissible value are not reported.

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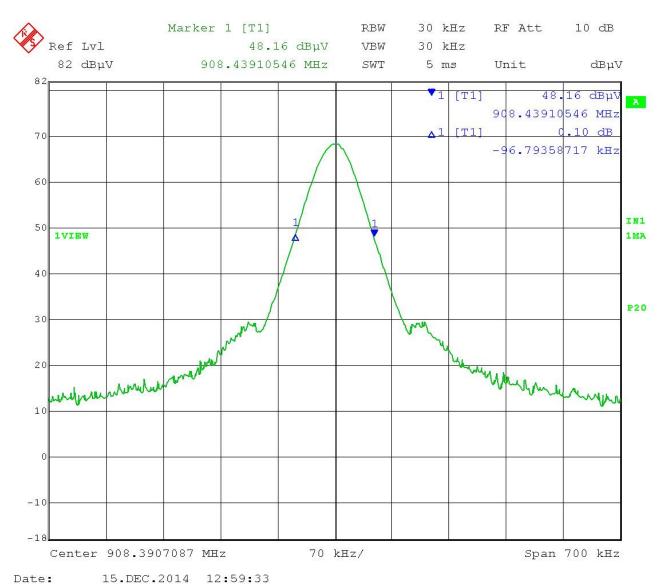


20 dB BANDWIDTH

Rule Part: FCC part 15.205, 2.202, RSS GEN (i4) 4.6

Requirements: must remain inside band

Test Data: 908.4 MHz Occupied Bandwidth = 96.79 KHz



Results meet requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

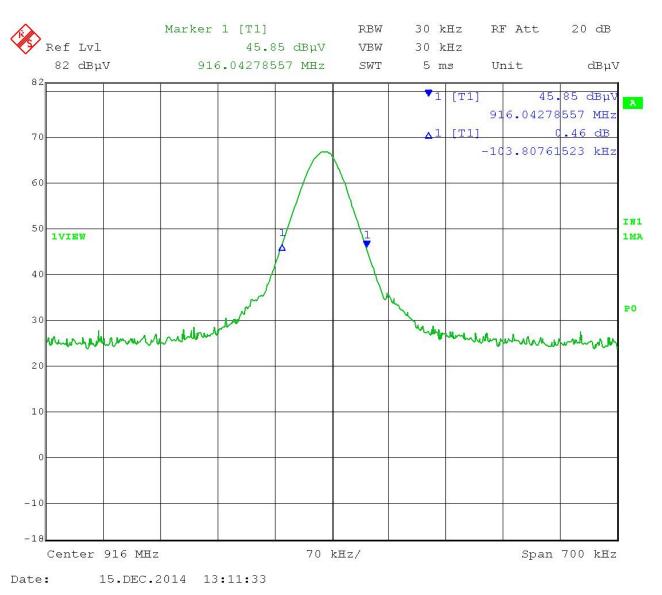
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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20 dB BANDWIDTH

Test Data: 916 MHz Occupied Bandwidth = 103.8 KHz



Results meet requirements

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Rules Part No.: FCC 15.249, 15.209 & IC RSS-210 (i8) ANNEX A2.9, RSS-GEN (i4)

Requirements:

Frequency	Limits			
Part 15.20	9 & RSS-GEN (i4)			
9 to 490 kHz	2400/F (kHz) µV/m @ 300 meters			
490 to 1705 kHz	24000/F (kHz) μV/m @ 30 meters			
1705 kHz to 30 MHz	29.54 dBµV/m @ 30 meters			
30 – 88	40.0 dBμV/m @ 3 meters			
80 – 216	43.5 dBµV/m @ 3 meters			
216 – 960	46.0 dBµV/m @ 3 meters			
Above 960	54.0 dBµV/m @ 3 meters			
Part 15.249 & RSS-210 (i8) ANNEX A.2.9				
Fundamental 902 – 928 MHz	94.0 dBµV/m @ 3 meters			
Fundamental 2.4 – 2.4835 GHz	94.0 dBµV/m @ 3 meters			
Harmonics	54.0 dBµV/m @ 3 meters			

Remarks:

The EUT was tested in three orthogonal planes as required. The EUT parallel (flat) on the turntable table was the worst case position and the following table and plots represent the emissions for this position. A test setup photo is provided in this report to document the final worst case position.

Unless otherwise noted in the results, a Peak Detector is Used for measurement's. No emissions were found past the second harmonic of each frequency tested.

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Test Data: Field Strength table.

Tuned Freq MHz	Emission Freq MHz	Meter Reading dBuV	Detector	RBW KHz	Ant. Polarity	Coax Loss dB	Cor Factor dB/m	FS dBuV/m	Margin dB
908.4	64.74	4.3	Peak	100	Н	0.41	6.16	10.89	29.11
908.4	123.34	6.5	Peak	100	V	0.65	11.37	17.54	25.96
908.4	135.27	4.8	Peak	100	V	0.68	14.04	18.51	24.99
908.4	171.72	5.4	Peak	100	V	0.78	15.12	20.32	23.18
908.4	337.87	4.1	Peak	100	Н	1.16	13.98	18.26	75.74
908.4	721.04	5.9	Peak	100	V	1.96	21.3	27.14	66.86
908.4	906.21	8.1	Peak	100	Н	2.39	23.3	31.76	62.24
908.4	908.4	59.4	Q Peak	120	V	2.39	23.3	83.12	10.88
908.4	908.4	68.1	Q Peak	120	Н	2.39	23.3	91.83	2.17
908.4	910.38	8.2	Peak	100	Н	2.4	23.3	31.86	62.14
908.4	2,725.0	7.8	Average	1000	Н	3.41	32.51	40.72	13.28
916	31.7	9.9	Peak	100	V	0.18	12.64	22.72	17.28
916	66.79	12.4	Peak	100	V	0.42	6.03	18.88	21.12
916	66.79	12.4	Peak	100	V	0.42	6.03	18.88	21.12
916	122.32	6.3	Peak	100	V	0.64	11.16	17.13	26.37
916	183.64	5.6	Peak	100	V	0.81	13.51	18.87	24.63
916	706.61	5.5	Peak	100	Н	1.98	21.17	26.69	67.31
916	908.01	7.3	Peak	100	Н	2.39	23.3	30.99	63.01
916	912.06	6.8	Peak	100	Н	2.4	23.32	30.49	63.51
916	916	55.8	Q Peak	1000	V	2.4	23.36	79.52	14.48
916	916	66.6	Q Peak	1000	Н	2.4	23.36	90.35	3.65
916	917.95	7.9	Peak	100	Н	2.41	23.38	31.68	62.32
916	920	8.1	Peak	100	Н	2.41	23.4	31.88	62.12
916	950.3	5.5	Peak	100	V	2.46	23.7	29.69	16.31
916	2,747.93	9.5	Average	1000	Н	3.42	32.52	42.44	11.56

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

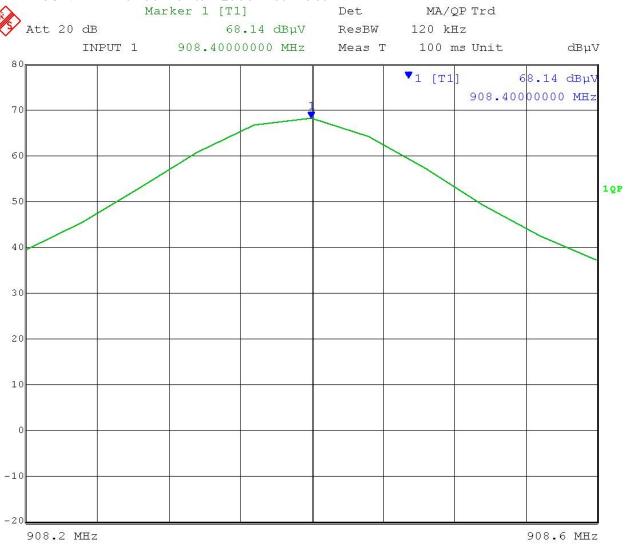
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots

CH 1 908.4 MHz Fundamental Quasi Peak Scan



Horizontal

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

Date: 15.DEC.2014 12:48:18

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Test Data: Plots

CH 1 908.4 MHz Quasi Peak Scan



Date: 15.DEC.2014 12:44:27

Vertical

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

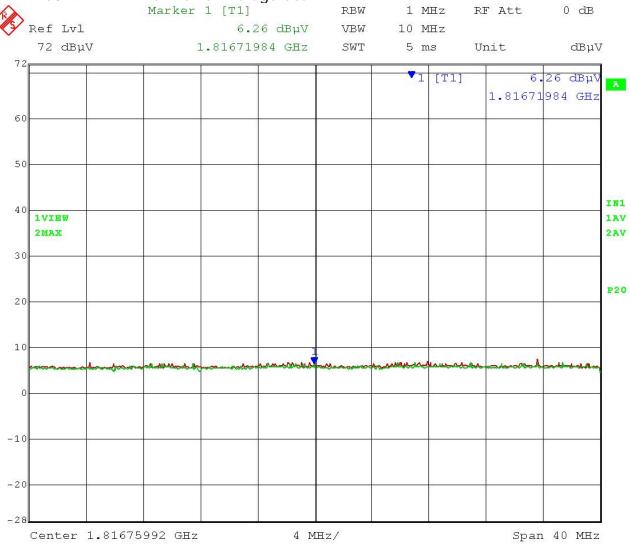
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Test Data: Plots

CH 1 908.4 MHz 1st Harmonic Average Scan



Date: 15.DEC.2014 15:18:25

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

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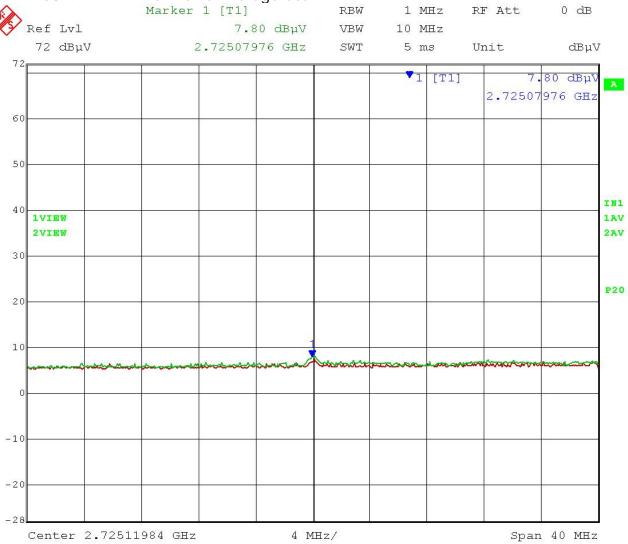
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Test Data: Plots





Date: 15.DEC.2014 15:24:44

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

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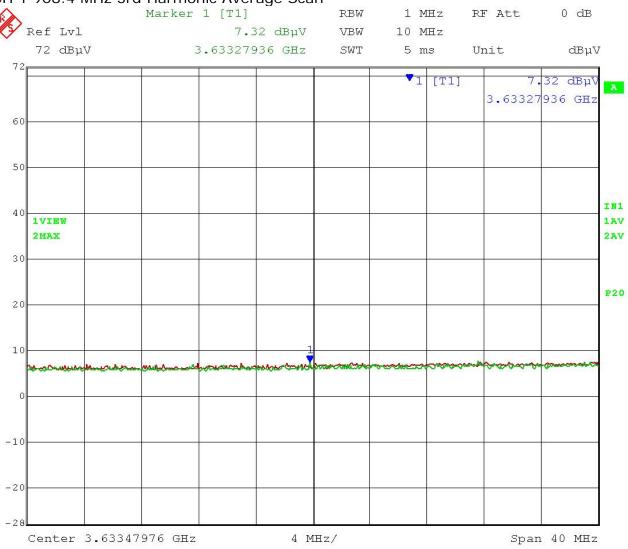
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Test Data: Plots





Date: 15.DEC.2014 15:26:23

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

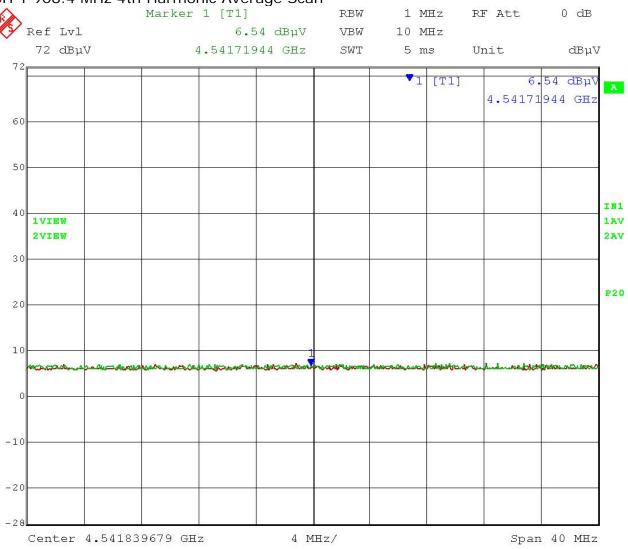
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots





Date: 15.DEC.2014 15:29:01

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

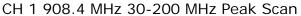
APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots





Date: 15.DEC.2014 14:02:01

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

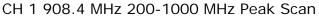
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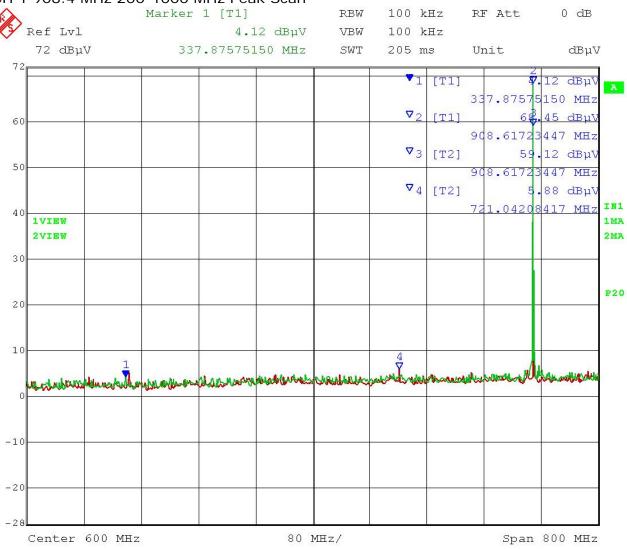
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots





Date: 15.DEC.2014 13:30:45

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

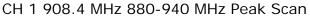
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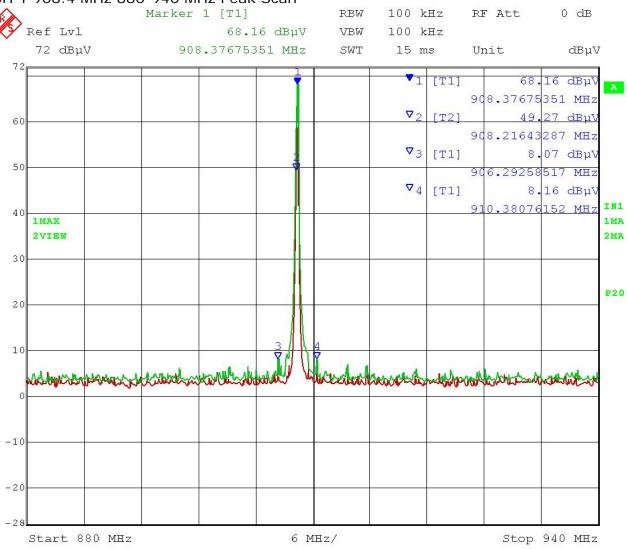
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Test Data: Plots





Date: 15.DEC.2014 13:37:58

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

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Test Data: Plots

CH 2 916 MHz Fundamental Quasi Peak Scan



Date: 15.DEC.2014 13:08:47

Horizontal

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

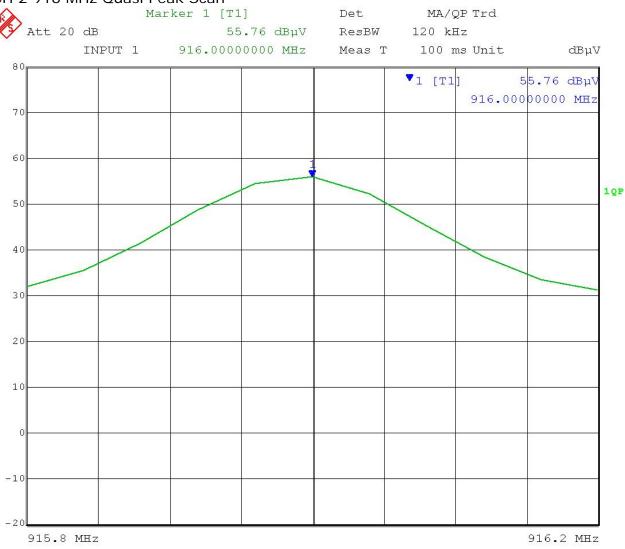
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Test Data: Plots

CH 2 916 MHz Quasi Peak Scan



Date: 15.DEC.2014 13:07:15

Vertical

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

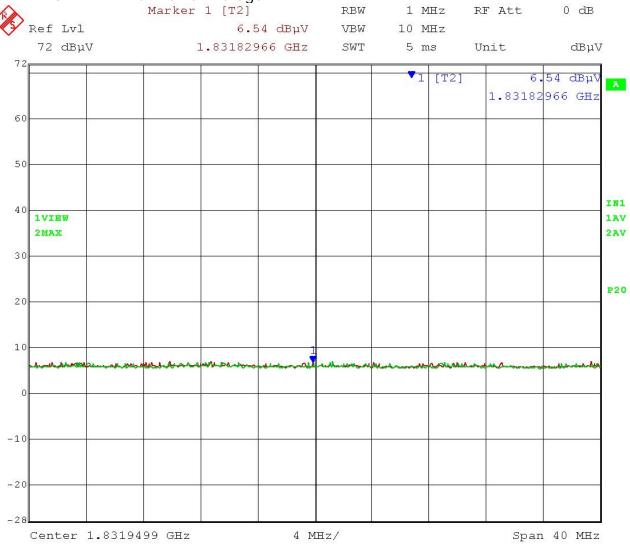
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots

CH 2 916 MHz 1st Harmonic Average



Date: 15.DEC.2014 15:05:35

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

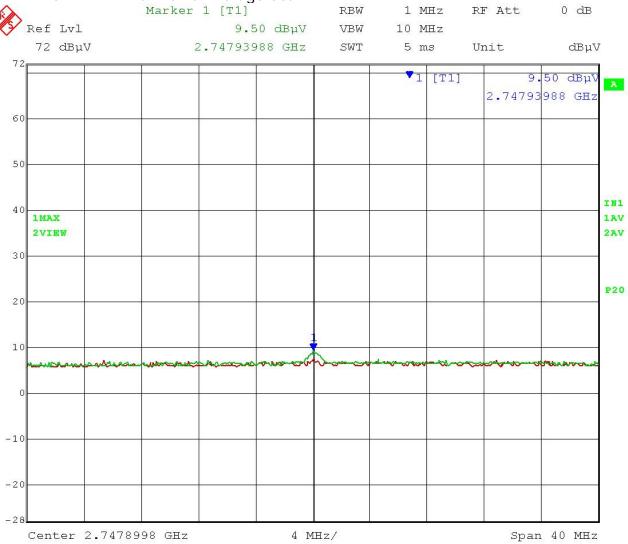
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots

CH 2 916 MHz 2nd Harmonic Average Scan



Date: 15.DEC.2014 15:09:17

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

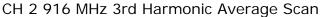
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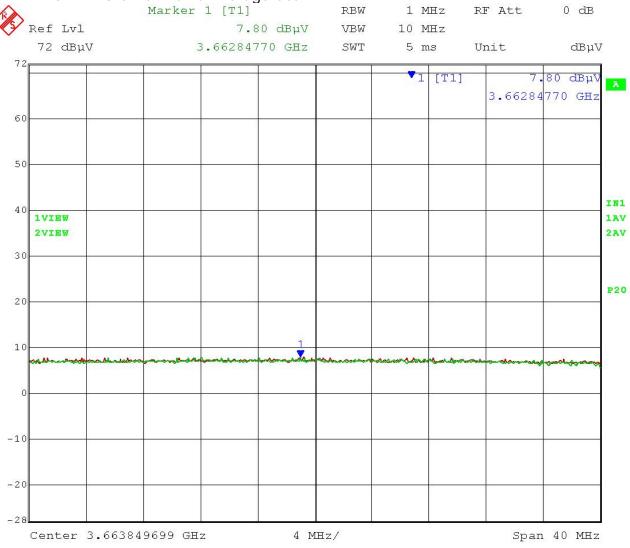
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots





Date: 15.DEC.2014 15:11:01

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

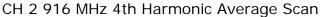
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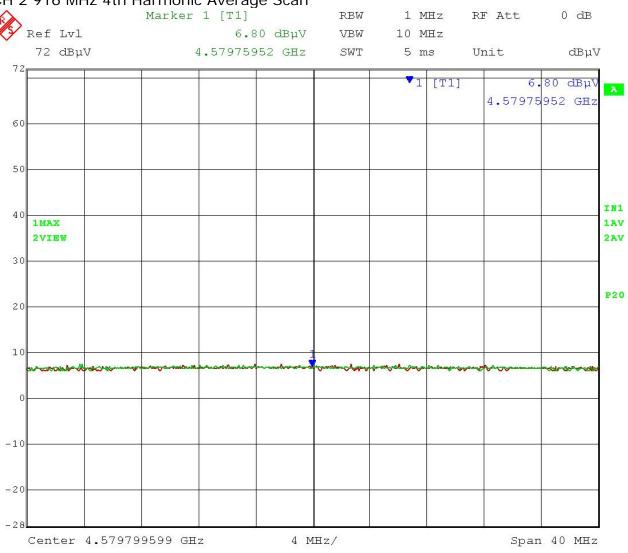
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Test Data: Plots





Date: 15.DEC.2014 15:14:01

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

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Test Data: Plots

CH 2 916 MHz 30-200 MHz Peak Scan



Oate: 15.DEC.2014 13:56:04 (Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

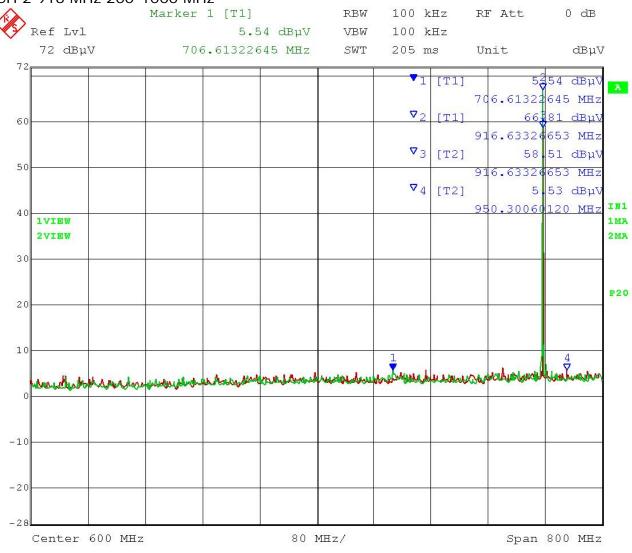
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots

CH 2 916 MHz 200-1000 MHz



(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

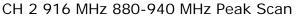
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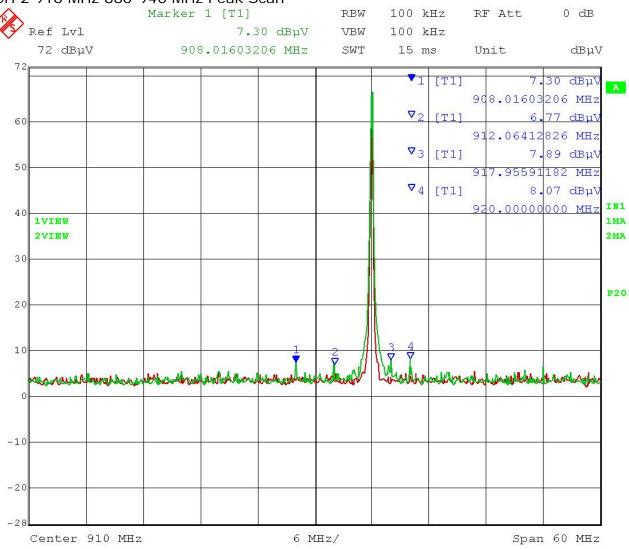
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Plots





Date: 15.DEC.2014 13:45:57

(Green Trace 1=Horizontal, Red Trace 2 = Vertical)

APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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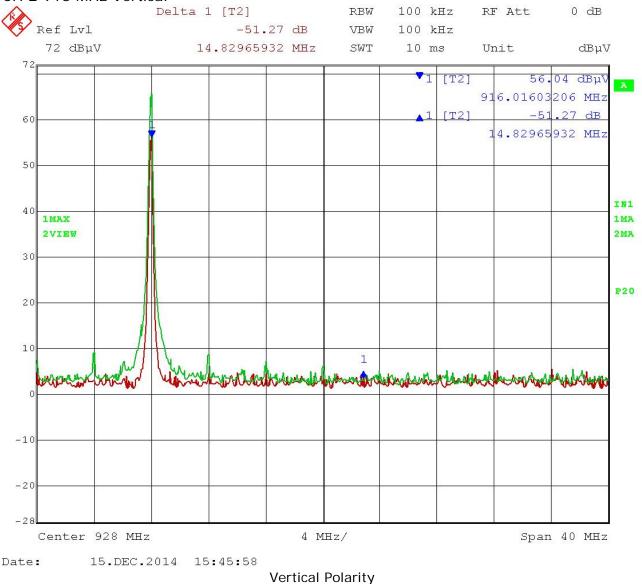


Rules Part No.: 15.249 (d), & RSS-GEN (i4), 4.6

Requirements: 50 dBc or in the case of restricted bands 54 dBuV/m. The field strength of any emissions appearing outside the bandedges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.249.

Test Data: Upper Band Edge

CH 2 916 MHz Vertical



Results Meet Requirements <u>Table of Contents</u>

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

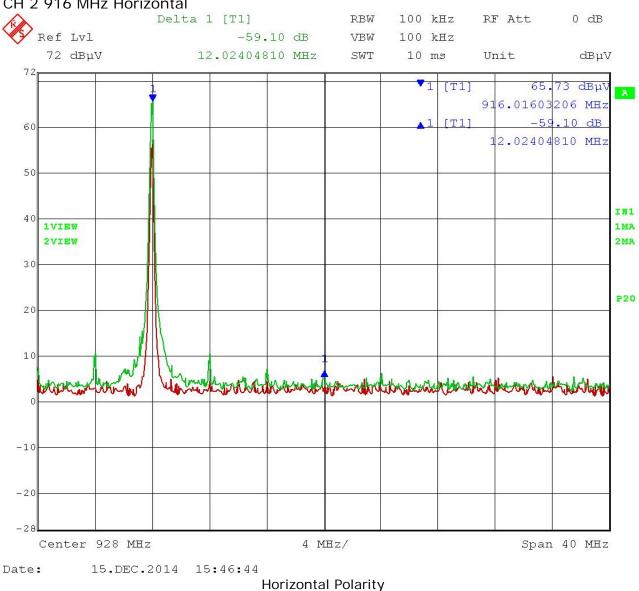
IC: 12323A-B36T10RB FCC ID: 2AC3T-B36T10RB

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Test Data: Upper Bandedge





Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

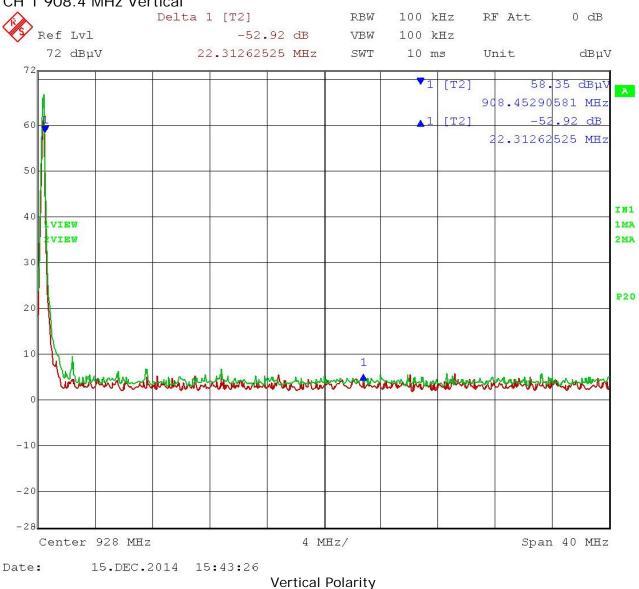
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Test Data: Upper Bandedge





Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

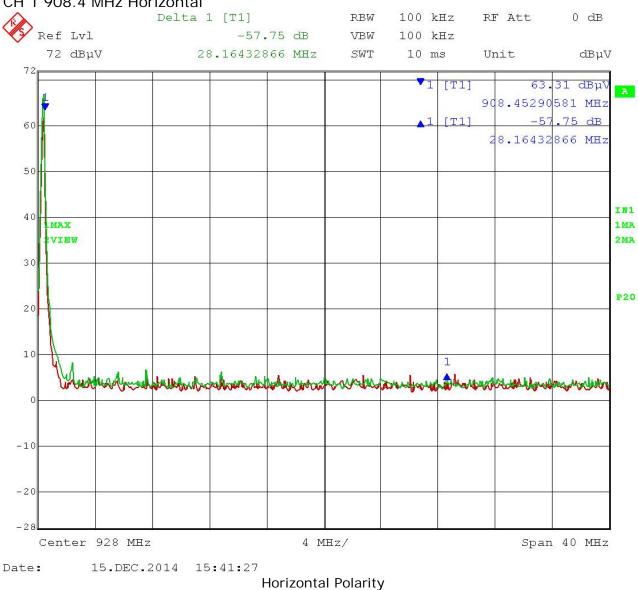
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Test Data: Upper Bandedge





Results Meet Requirements

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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

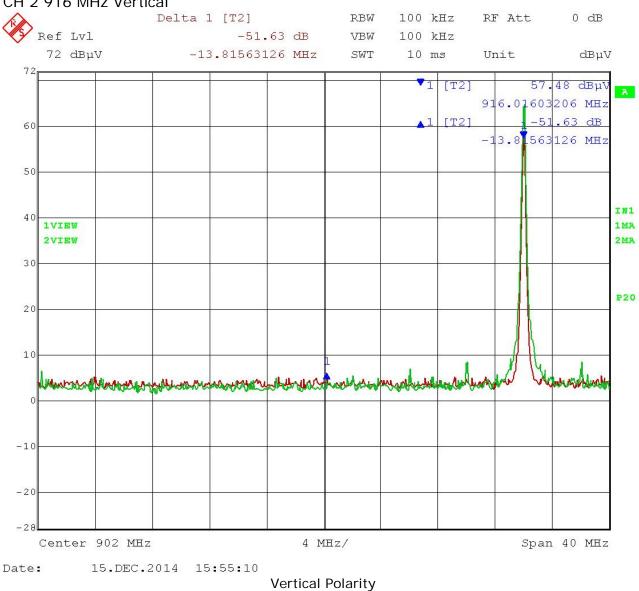
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Test Data: Lower Bandedge





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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

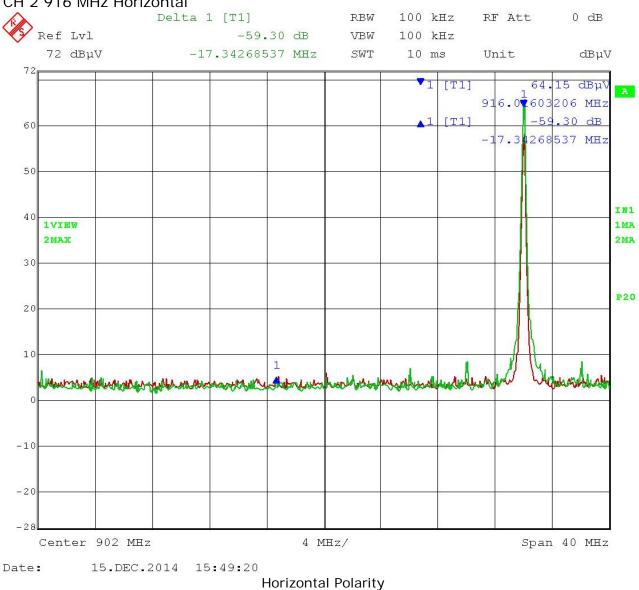
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Test Data: Lower Bandedge





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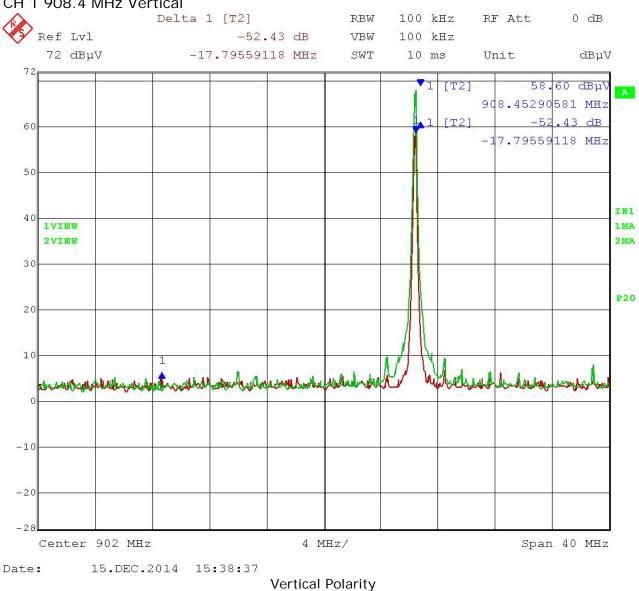
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Test Data: Lower Bandedge





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APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

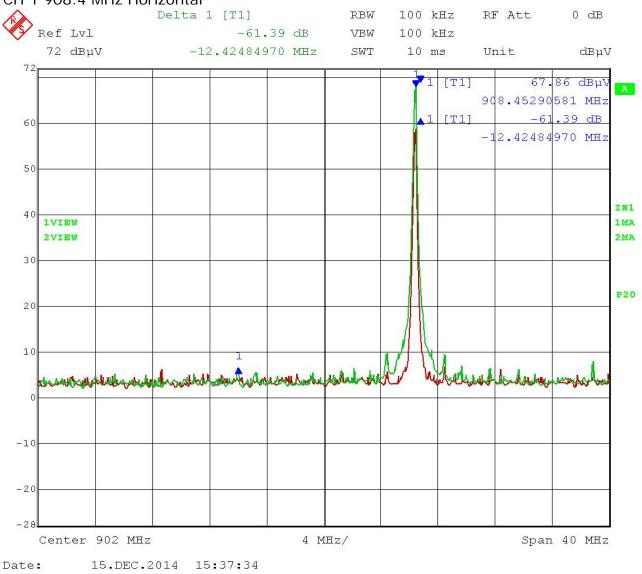
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Test Data: Lower Bandedge

CH 1 908.4 MHz Horizontal



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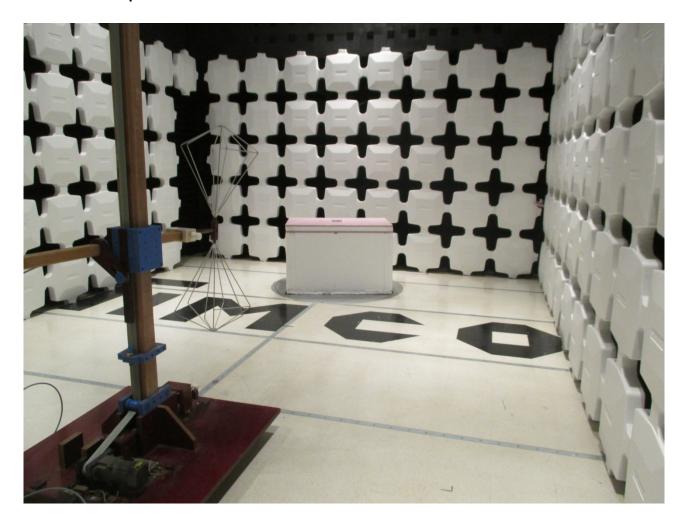
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Horizontal Polarity



EUT SETUP PHOTOS

Radiated Setup



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EUT SETUP PHOTOS

Final EUT Setup



APPLICANT: BUILDING 36 TECHNOLOGIES, LLC

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EMC EQUIPMENT LIST

Device	Manufacturer	Model	Serial Number	Cal/Char Date	Due Date
Antenna: Biconnical Chamber	Eaton Chamber	94455-1	1057	06/14/13	06/14/15
Antenna: Log-Periodic Chamber	Eaton	96005	1243	05/31/13	05/31/15
3-Meter Semi- Anechoic Chamber	Panashield	N/A	N/A	12/31/13	12/31/15
Antenna: Double- Ridged Horn/ETS Horn 1	ETS-Lindgren Chamber	3117	00035923	06/13/14	06/13/16
EMI Test Receiver R & S ESIB 40 Screen Room	Rohde & Schwarz	ESIB 40	100274	08/12/14	08/12/16
EMI Test Receiver R & S ESU 40 Chamber	Rohde & Schwarz	ESU 40	100320	03/11/14	03/11/16

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