

COMPLIANCE WORLDWIDE INC. TEST REPORT 237-24R2

In Accordance with the Requirements of
**Federal Communications Commission CFR Title 47
Part 15.249, Subpart C**

**Innovation, Science and Economic Development Canada
RSS 210, Issue 11**

**Low Power License-Exempt Radio Communication Devices
Intentional Radiators**

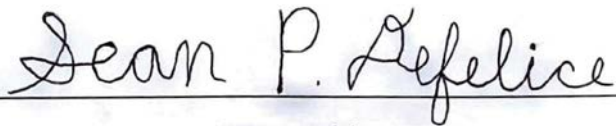
Issued to
**Building 36 Technologies
160 Gould Street, Suite 201
Needham, MA 02494**

for the
**ADC-T25 Thermostat
Z-Wave SR Radio**

**FCC ID: 2AC3T-B36T25RA
IC: 12323A-B36T25RA**

**Report Issued on October 24, 2024
Revision R1 Issued on January 23, 2025
Revision R2 Issued on February 10, 2025**

Tested by



Sean P. Defelice

Reviewed By



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1. Scope

This test report certifies that the Building 36 Technologies ADC-T25 Thermostat, as tested, meets the FCC Part 15, Subpart C and Industry Canada RSS 210, Issue 11 requirements. The scope of this test report is limited to the test sample provided by the client, only in as much as that sample represents other production units. If any significant changes are made to the unit, the changes shall be evaluated and a retest may be required. Measurement Uncertainty will not be applied to any of the measurement / testing results in this test report to determine pass/fail criteria per the Decision Rule as defined in ISO/IEC Guide 17025-2017 Clause 3.7. Revision R1, removes the peak limit from Section 6.2, corrects Section 6.3 to read 902 to 928 MHz. Revision R2 updates the RSS-210 references from Issue 10 to 11.

2. Product Details

- 2.1. Manufacturer:** Building 36 Technologies
- 2.2. Model Number:** ADC-T25
- 2.3 Serial Number:** Pre-production prototype
- 2.4 Description of EUT:** Z-Wave wireless thermostat supporting short range and long-range channel frequencies.
- 2.5 Power Source:** 24 VAC via transformer or two AA Batteries
- 2.6 Hardware Revision:** Rev E
- 2.7 Software Revision:** N/A
- 2.8. Modulation Type:** Gaussian frequency shift keying
- 2.9. Operating Frequencies:** 908.4 MHz and 916 MHz
- 2.10. EMC Modifications:** None

3. Product Configuration

3.1. EUT Hardware

Manufacturer	Model	Serial Number	Input Volts	Freq (Hz) Or DC	Description/Function
Building 36 Technologies	ADC-T25	Pre-production	24 3	AC DC	Wireless Thermostat

3.2. Support Equipment

Device	Manufacturer	Model	Serial No.	Comment
Laptop	Lenovo	P50	PC0MHJ8Y	For setting up EUT

3.3. Cables

Cable Type	Length	Shield	From	To
Power / Low voltage	3M	No	EUT	Power Adapter

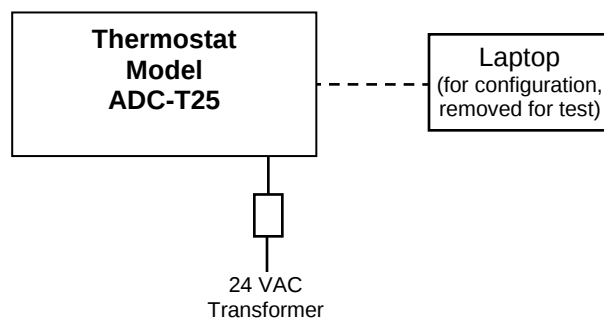
3. Product Configuration (continued)

3.4. Operational Characteristics & Software

Install the battery to the device under test or apply AC power.

Special test firmware was loaded into the EUT so that channel and frequency could be selected and set via a temporary serial connection through a laptop. The device will be configured using this software to modulate test frequencies at 908.4 MHz and 916 MHz.

3.5. Block Diagram



4. Measurements Parameters

4.1. Measurement Equipment Used to Perform Test

Device	Manufacturer	Model No.	Serial No.	Cal Due	Interval
EMI Test Receiver, 9kHz - 7GHz ¹	Rohde & Schwarz	ESR7	101156	10/16/2024	3 Years
EMI Test Receiver, 10 Hz - 7GHz ¹	Rohde & Schwarz	ESR7	101770	7/23/2025	1 Year
Spectrum Analyzer, 2 Hz to 26.5 GHz ²	Rohde & Schwarz	FSW26	102057	7/19/2026	2 Years
Spectrum Analyzer, 9 kHz to 40 GHz ³	Rohde & Schwarz	FSV40	100899	6/27/2025	1 Year
Spectrum Analyzer 10 Hz – 40 GHz ⁴	Rohde & Schwarz	FSVR40	100909	9/18/2025	4 Years
Loop Antenna 9 kHz - 30 MHz	EMCO	6512	9309-1139	4/14/2025	3 Years
Biconilog Antenna, 30 MHz - 2 GHz	Sunol Sciences	JB1	A050913	7/1/2025	4 Years
Dbl Ridged Guide Antenna 1- 18 GHz	ETS-Lindgren	3117	00143292	5/11/2025	3 Years
Dbl Ridged Guide Antenna 1- 18 GHz	ETS-Lindgren	3117	00227631	4/21/2025	3 Years
Preamplifier, 1 GHz to 26.5 GHz	Hewlett Packard	8449B	3008A01323	4/9/2025	1 Year
Preamplifier, 1 GHz to 26.5 GHz	Hewlett Packard	8449B H02	3008A00329	4/9/2025	1 Year
1.8 GHz - 9.3 GHz Passband Filter	Mini-Circuits	VHP-16	0341	2/27/2025	1 Year
Barometric Pressure/Humidity & Temp Datalogger	Extech Instruments	SD700	Q590483	4/4/2025	1 Year

¹ ESR7 Firmware revision: V3.48 SP3, Date installed: 09/30/2020

² FSW26 Firmware revision: V4.71 SP1, Date installed: 11/16/2020

³ FSV40 Firmware revision: V2.30 SP4, Date installed: 05/04/2016

⁴ FSVR40 Firmware revision: V2.23 SP1, Date installed: 08/19/2016

Previous V3.48 SP2, installed 07/23/2020.

Previous V4.61, installed 08/11/2020.

Previous V2.30 SP1, installed 10/22/2014.

Previous V2.23, installed 10/22/2014.

4. Measurements Parameters (continued)

4.2. Software Used to Perform Test

Manufacturer	Software Description	Title or Model #	Rev.	Report Sections
Compliance Worldwide	Test Report Generation Software	Test Report Generator	1.0	Used to process conducted emissions data

4.3. Measurement & Equipment Setup

Test Dates:	9/4/2024, 9/5/2024, 9/6/2024, 9/9/2024, 9/10/2024, 10/23/2024
Test Engineers:	Sean Defelice
Normal Site Temperature (15 - 35°C):	21.5
Relative Humidity (20 - 75%RH):	52
Frequency Range:	9 kHz to 9.4 GHz
Measurement Distance:	3 Meters
EMI Receiver IF Bandwidth:	200 Hz – 9 to 150 kHz 9 kHz – 150 kHz to 30 MHz 120 kHz - 30 MHz to 1 GHz 1 MHz - Above 1 GHz
EMI Receiver Average Bandwidth:	>= 3 * IF (BW) or RBW
Detector Function:	Peak, Quasi-Peak & Average

4.4. Measurement Procedures

Test measurements were made in accordance FCC Part 15.249, ISSED RSS-210 B.10: Operation within the bands 902 - 928 MHz, 2400 - 2483.5 MHz, 5725 - 5875 MHz, and 24.0 - 24.25 GHz.

The test methods used to generate the data in this test report are in accordance with ANSI C63.10: 2013, American National Standard for Testing Unlicensed Wireless Devices.

ISSED RSS-210, Issue 11, License-Exempt Radio Apparatus: Category I Equipment; RSS-GEN, Issue 5, General Requirements for Compliance of Radio Apparatus.

All measurements include correction factors for antenna, cables, preamp and attenuators, if used.

4.5. Choice of Operating Frequencies

The device under test utilizes two operating frequencies: 908.4 MHz and 916 MHz. Both frequencies were tested.

4.6. EUT Positions for Emissions Measurements

During all radiated mode measurement testing, the EUT was mounted on a polystyrene foam to simulate the device being wall mounted.

5. Measurement Summary

Test Requirement	FCC Requirement	ISED Requirement	Test Section	Result	Comment
Antenna Requirement	15.203	RSS-GEN 6.8	6.1	Compliant	
Radiated Field Strength of Fundamental	15.249 (a),(c)	RSS-210 B.10 (a)	6.2	Compliant	
Radiated Field Strength of Harmonics	15.249 (a),(c)	RSS-210 B.10 (a)	6.3	Compliant	
Fixed, Point-to-Point Operation	15.249 (b)	N/A	---	Not Required	
Band Edge Measurements	15.249 (d) 15.209	RSS-210 B1.0 (b)	6.4	Compliant	
Spurious Radiated Emissions	15.249 (d), 15.209	RSS-GEN 6.13 & 8.9	6.5	Compliant	
Occupied Bandwidth (-20 dB)	ANSI C63.4 § 13.1.7	N/A	6.6	Compliant	
99% Power Bandwidth	N/A	RSS-GEN 6.7	6.7	Compliant	
AC Power Line Conducted Emissions	15.207	RSS-GEN 8.8	6.8 6.9	Compliant	

6. Measurement Data

6.1. Antenna Requirement (Section 15.203, RSS-GEN 6.8)

Requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section.

Result: The EUT utilizes a PCB etched antenna that is not user replaceable.

6. Measurement Data (continued)

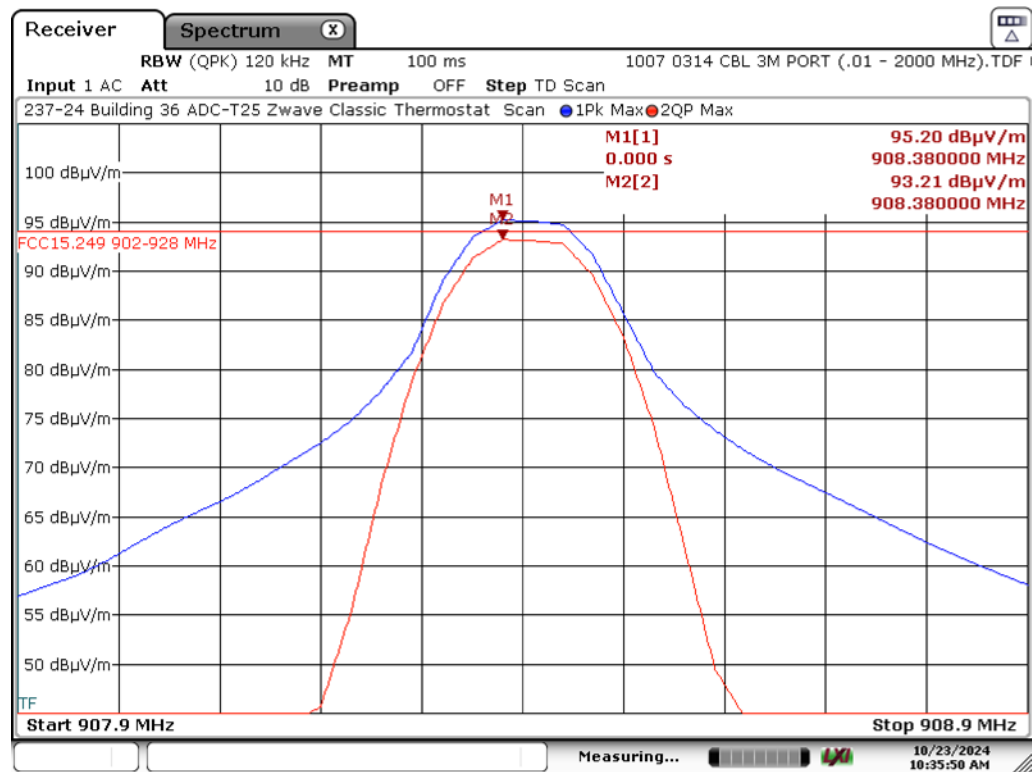
6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c), ISED RSS-210 B.10 (a))

Requirement: The 3-meter field strength of the fundamental emissions from intentional radiators operating within the 902-928 MHz frequency band shall comply with the following requirement: 50 millivolts/meter (94 dB μ V/m) Quasi-Peak mode measurement.

Frequency (MHz)	Amplitude ¹ (dB μ V/m) at 3 Meters	Limit (dB μ V/m) at 3 Meters	Margin (dB μ V/m) at 3 Meters	Ant Polarity	Ant Height	Turntable Azimuth	Result
	Quasi-Pk	Quasi-Pk	Quasi-Pk	H/V	cm	Deg	
908.4	93.21	94.00	-0.79	V	116	220	Compliant
916.0	92.43	94.00	-1.57	V	106	220	Compliant

¹ All correction factors are included in measurement values.

6.2.1. Radiated Field Strength of Fundamental, 908.4 MHz (Worst case)

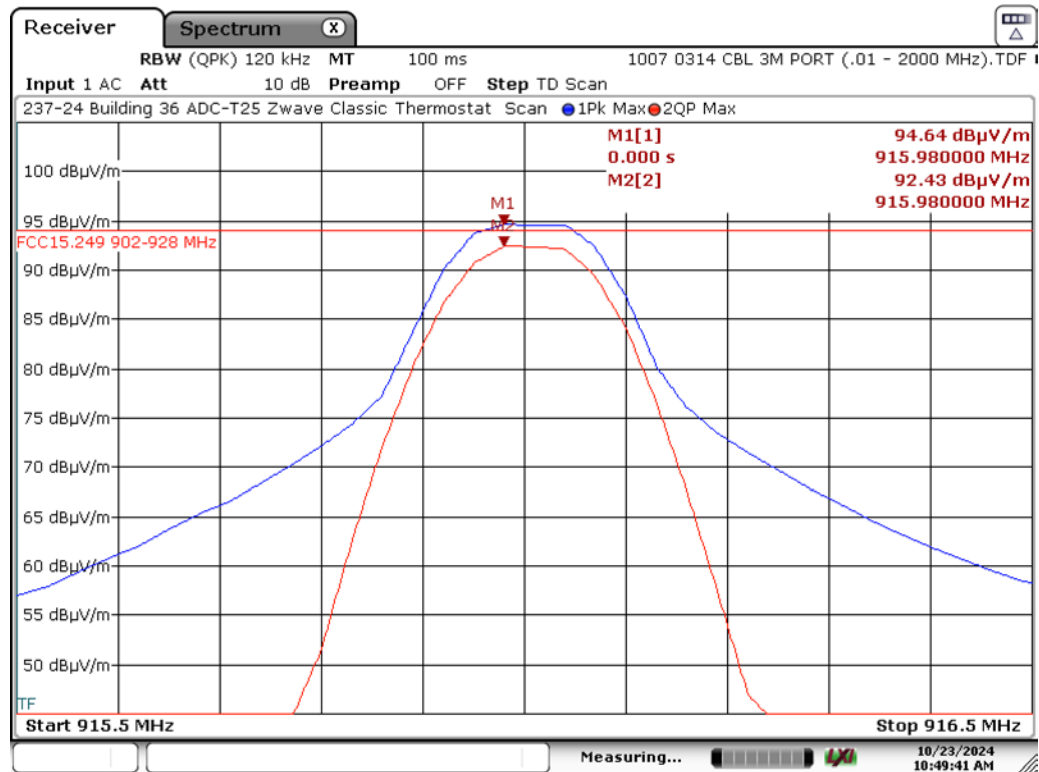


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6. Measurement Data (continued)

6.2. Radiated Field Strength of Fundamental (15.249, Section (a), (c), ISED RSS-210 B.10 (a))

6.2.2. Radiated Field Strength of Fundamental, 916 MHz (Worst case)



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6. Measurement Data (continued)

6.3. Radiated Field Strength of Harmonics (15.249, Section (a) (e), ISED RSS-210 B.10a)

Requirement: The 3-meter field strength of the harmonic emissions from intentional radiators operated within the 902 to 928 MHz frequency bands shall comply with the following: 500 microvolts/meter (54 dB μ V/m), average mode measurement. Peak field strength may not be greater than 20 dB above the average limit (74 dB μ V/m).

Test Results : Compliant

Notes: All correction factors are included in the field strength values. The tabled values represent the worst-case antenna polarity and orthogonal position of the DUT.

6.3.1. Fundamental Frequency = 908.4 MHz

Freq. (MHz)	Field Strength (dB μ V/m)		Limit (dB μ V/m)		Margin (dB μ V/m)		Antenna Polarity (H/V)	Result
	Peak	Average	Peak	Average	Peak	Average		
1816.80	43.29	31.13	74.00	54.00	-30.71	-22.87	H	Compliant
2725.20	53.93	34.76	74.00	54.00	-20.07	-19.24	V	Compliant
3633.60	48.33	36.07	74.00	54.00	-25.67	-17.93	H	Compliant
4542.00	50.41	37.44	74.00	54.00	-23.59	-16.56	H	Compliant
5450.40	50.52	37.30	74.00	54.00	-23.48	-16.70	V	Compliant
6358.80	51.49	38.96	74.00	54.00	-22.51	-15.04	V	Compliant
7267.20	52.83	40.80	74.00	54.00	-21.17	-13.20	V	Compliant
8175.60	55.22	43.25	74.00	54.00	-18.78	-10.75	V	Compliant
9084.00	52.41	40.48	74.00	54.00	-21.59	-13.52	V	Compliant

6.3.2. Fundamental Frequency = 916 MHz

Freq. (MHz)	Field Strength (dB μ V/m)		Limit (dB μ V/m)		Margin (dB μ V/m)		Antenna Polarity (H/V)	Result
	Peak	Average	Peak	Average	Peak	Average		
1832.00	43.02	30.74	74.00	54.00	-30.98	-23.26	H	Compliant
2748.00	53.44	34.53	74.00	54.00	-20.56	-19.47	H	Compliant
3664.00	48.76	36.05	74.00	54.00	-25.24	-17.95	H	Compliant
4580.00	49.44	37.22	74.00	54.00	-24.56	-16.78	H	Compliant
5496.00	49.77	37.18	74.00	54.00	-24.23	-16.82	H	Compliant
6412.00	51.24	38.84	74.00	54.00	-22.76	-15.16	H	Compliant
7328.00	53.51	40.60	74.00	54.00	-20.49	-13.40	V	Compliant
8244.00	55.84	43.06	74.00	54.00	-18.16	-10.94	H	Compliant
9160.00	53.06	40.26	74.00	54.00	-20.94	-13.74	H	Compliant

6. Measurement Data (continued)

6.4. Band Edge Measurements (15.249, Section (d), ISED RSS-210 B.10 (b))

Requirement: Emissions radiated outside of the specified frequency band of 902 to 928 MHz, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test Note: The upper and lower band edge peak mode measurements meet the FCC Part 15, Section 15.209 quasi-peak requirement of 46 dB μ V/m.

6.4.1. Band Edge

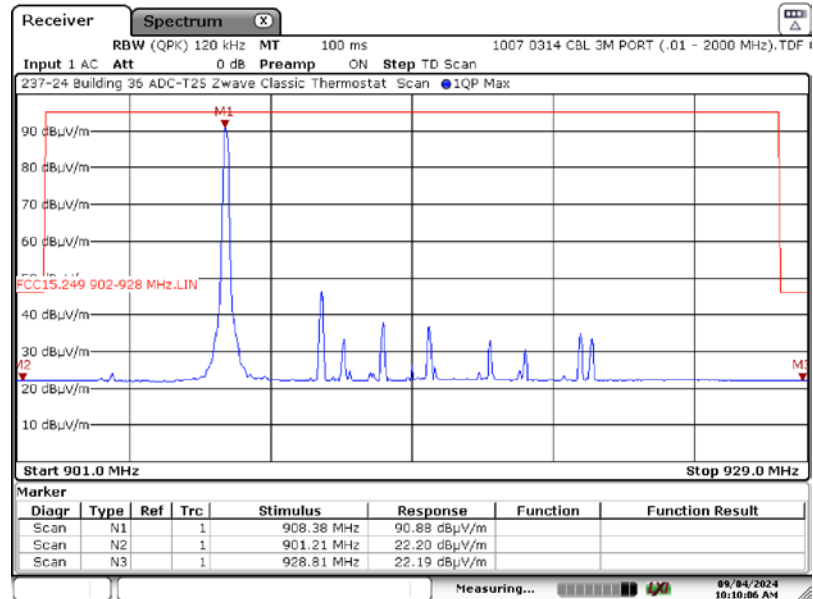
6.4.1.1. Modulated Carrier

Freq. (MHz)	Amplitude (dB μ V/m)		Band Edge (dB μ V/m)				Limit (dB μ V/m)	Margin (dB μ V/m)	Result
	Peak	Quasi Peak	Band Edge	Freq MHz	Peak	Quasi Peak	15.209 QP	15.209 QP	
908.4	95.20	90.88	Lower	901.21	---	22.20	46.00	-23.80	Compliant
			Upper	928.81	---	22.19	46.00	-23.81	Compliant
916.0	94.64	91.28	Lower	901.45	---	22.32	46.00	-23.68	Compliant
			Upper	928.78	---	22.25	46.00	-23.75	Compliant

6. Measurement Data (continued)

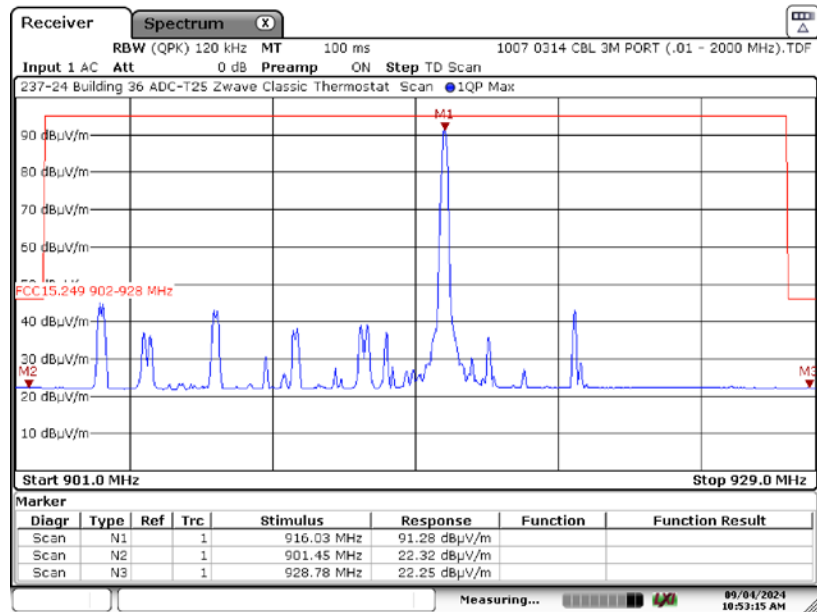
6.4. Band Edge Measurements (15.249, Section (d), ISED RSS-210 B.10 (b))

6.4.3. 908.4 MHz



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6.4.4. 916 MHz



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6. Measurement Data (continued)

6.5. Spurious Radiated Emissions, 32 kHz to EUT 10th Harmonic (15.249, Section (d), ISED RSS-GEN 6.13 & 8.9)

Requirement: Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

Test Notes: Spurious emissions screen captures are located in appendices A and B.

6.5.1. Regulatory Limit: FCC Part 209, Quasi-Peak & Average

Frequency Range (MHz)	Distance (Meters)	Limit (dBμV/m)
0.009 to 0.490	3	128.5 to 93.8
0.490 to 1.705	3	73.8 to 63
1.705 to 30	3	69.5
30 to 88	3	40.0
88 to 216	3	43.5
216 to 960	3	46.0
Above 960	3	54.0

Sample Calculation: Final Result (dBμV/m) = Measurement Value (dBμV) + Antenna Factor (dB/m) + Cable Loss (dB) – Pre-amplifier Gain (dB) Internal or External.

Note: All correction factors are loaded into the measurement instrument prior to testing to determine the final result.

6. Measurement Data (continued)

6.6 Occupied Bandwidth (ANSI C63.10, Section 6.9.1)

Requirement: The occupied bandwidth measurements on an intentional radiator shall be made in accordance with the requirements outlined in ANSI C63.10-2013, Section 6.9.1. If no bandwidth requirement is specified by the procuring or regulatory agency, the bandwidth will be measured at –20 dB with respect to the reference level.

Test Notes: The span range for the SA display shall be between two times and five times the OBW. The nominal IF filter bandwidth (3 dB RBW) should be approximately 1% to 5% of the OBW, unless otherwise specified, depending on the applicable requirement. The dynamic range of the SA at the selected RBW shall be more than 10 dB below the target “dB down” (attenuation) requirement, i.e., if the requirement calls for measuring the –20 dB OBW, the SA noise floor at the selected RBW shall be at least 30 dB below the largest measured value on the display.

Frequency (MHz)	-20 dB Bandwidth (kHz)
908.4	86.31
916.0	113.59

6.6.1. Occupied (-20 dB) Bandwidth, Fundamental Frequency = 908.4 MHz

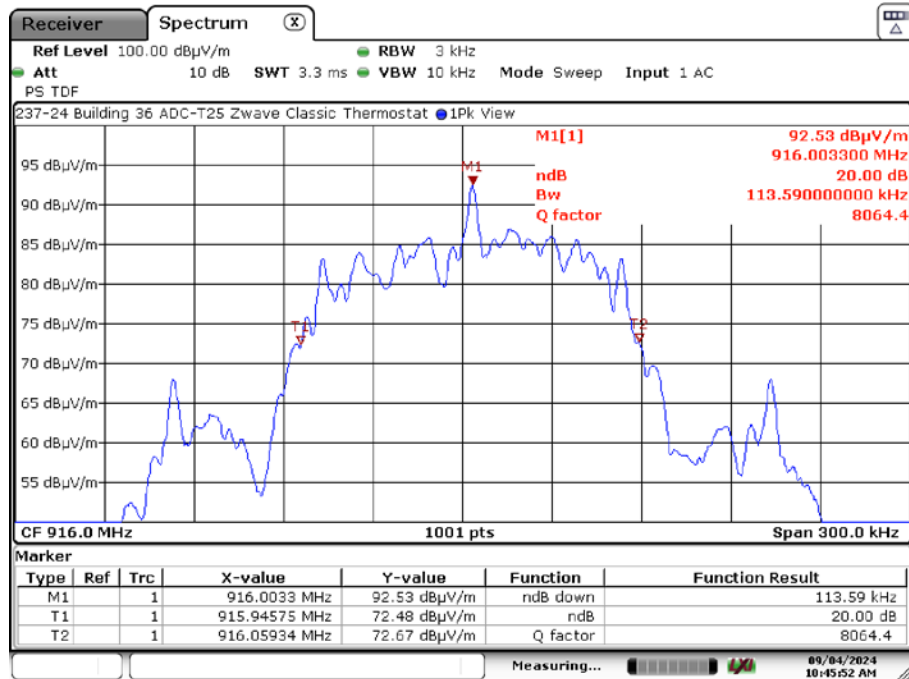


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6. Measurement Data (continued)

6.6 Occupied Bandwidth (ANSI C63.10, Section 6.9.1)

6.6.2. Occupied (-20 dB) Bandwidth, Fundamental Frequency = 916.0 MHz



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6. Measurement Data (continued)

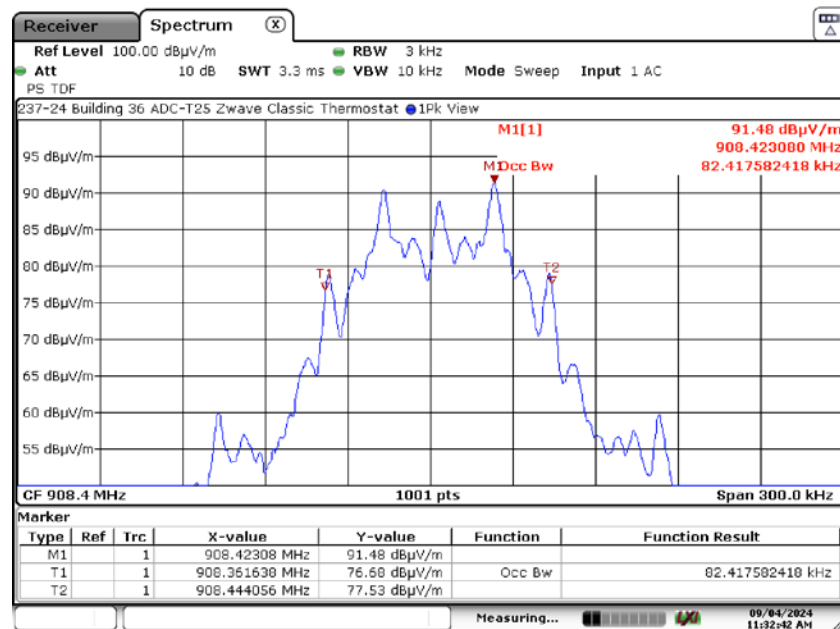
6.7 99% Emission Bandwidth (ISED RSS-GEN 6.7)

Requirement: When an occupied bandwidth value is not specified in the applicable RSS, the transmitted signal bandwidth to be reported is to be its 99% emission bandwidth, as calculated or measured.

Test Notes: The transmitter shall be operated at its maximum carrier power measured under normal test conditions. The span of the analyzer shall be set to capture all products of the modulation process, including the emission skirts. The resolution bandwidth shall be set to as close to 1% of the selected span as is possible without being below 1%. The video bandwidth shall be set to 3 times the resolution bandwidth. Video averaging is not permitted. Where practical, a sampling detector shall be used given that a peak or peak hold may produce a wider bandwidth than actual.

Frequency (MHz)	99% Power Bandwidth (kHz)
908.4	82.418
916.0	113.287

6.7.1. 99% Power Bandwidth, Fundamental Frequency = 908.4 MHz

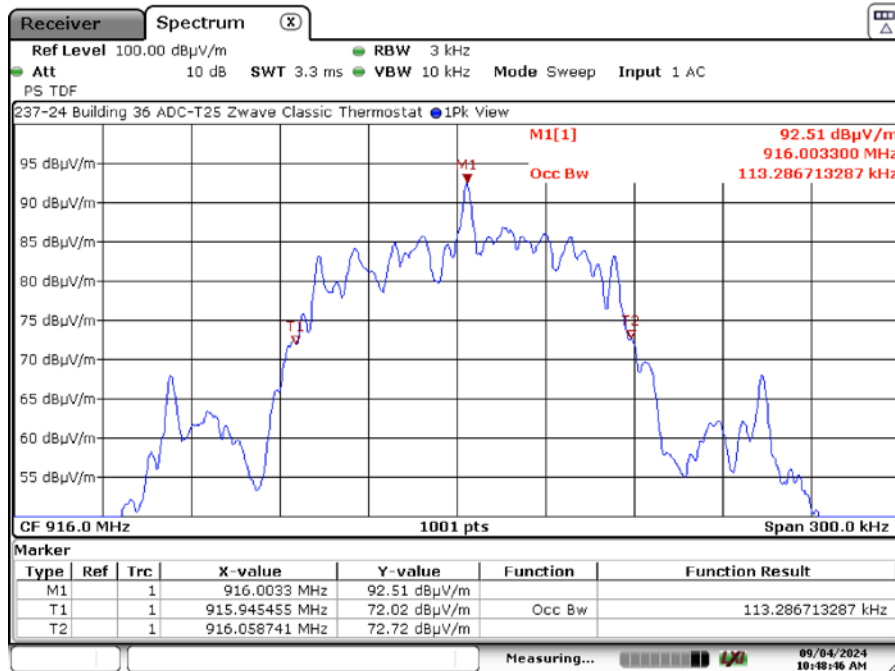


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6. Measurement Data (continued)

6.7 99% Emission Bandwidth (ISED RSS-GEN 6.7)

6.7.2. 99% Power Bandwidth, Fundamental Frequency = 916.0 MHz



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6. Measurement Data (continued)

6.8. Conducted Emissions (FCC Part 15.207, RSS-GEN 8.8)

Requirement: 15.207 With certain exceptions, an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Limits (dB μ V)	
	Quasi-Peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5.0	56	46
5.0 to 30.0	60	50

* Decreases with the logarithm of the frequency.

Procedure: This test was performed in accordance with the procedure detailed in ANSI C63.10-2013, Section 6.2: Standard test method for ac powerline conducted emissions from unlicensed wireless devices.

Results: Compliant

Measurement & Equipment Setup

Test Date: 9/10/2024
 Test Engineer: Sean Defelice
 Site Temperature (°C): 21.5
 Relative Humidity (%RH): 52
 Frequency Range: 0.15 MHz to 30 MHz
 EMI Receiver IF Bandwidth: 9 kHz
 EMI Receiver Avg Bandwidth: $\geq 3 \times$ IF BW (RBW)
 Detector Functions: Peak, Quasi-Peak & Average

Sample Calculation: Final Result (dB μ V) = Measurement Value (dB μ V) + LISN Insertion Loss (dB) + Cable Loss (dB).

Note: All correction factors are loaded into the measurement instrument prior to testing to determine the final result.

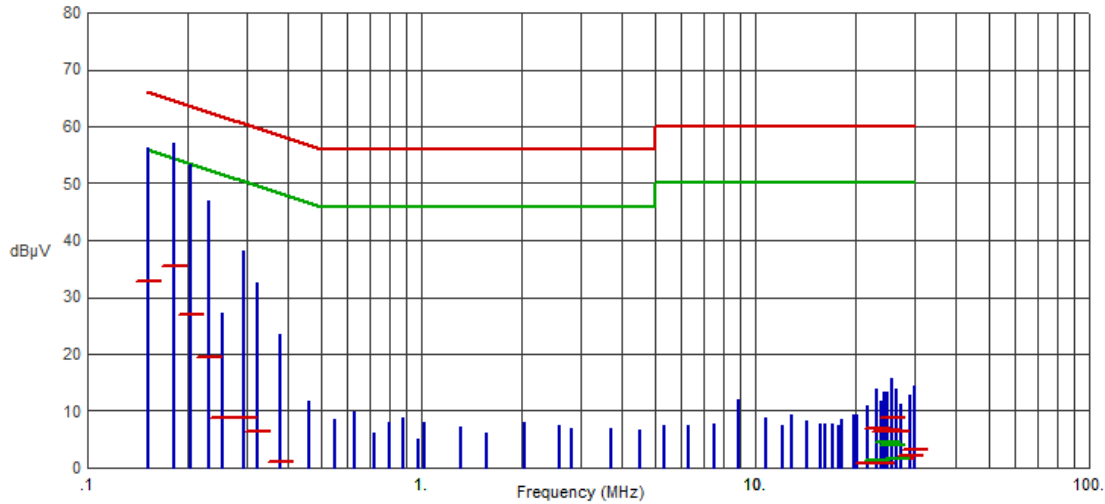
6. Measurement Data (continued)

6.9. Conducted Emissions Test Results

6.9.1. 120 Volts, 60 Hz Phase

Test No.: 238-24, 120 Volts, 60 Hz Phase

FCC, Class B



Frequency (MHz)	Pk Amp (dBμV)	QP Amp (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Avg Amp (dBμV)	Avg Limit (dBμV)	Avg Margin (dB)	Comments
.1523	56.19	32.77	65.87	-33.10	-0.61	55.87	-56.48	
.1815	57.05	35.38	64.42	-29.04	-1.81	54.42	-56.23	
.2040	53.34	27.03	63.45	-36.42	-3.94	53.45	-57.39	
.2310	46.87	19.52	62.41	-42.89	-7.98	52.41	-60.39	
.2535	27.33	8.88	61.64	-52.76	-8.54	51.64	-60.18	
.2940	38.20	8.74	60.41	-51.67	-8.93	50.41	-59.34	
.3233	32.65	6.47	59.62	-53.15	-10.07	49.62	-59.69	
.3795	23.49	1.03	58.29	-57.26	-10.07	48.29	-58.36	
.4628	11.81	-4.95	56.64	-61.59	-11.04	46.64	-57.68	
.5483	8.57	-3.11	56.00	-59.11	-11.04	46.00	-57.04	
.6315	9.93	-0.41	56.00	-56.41	-10.94	46.00	-56.94	
.7193	6.09	-5.68	56.00	-61.68	-11.33	46.00	-57.33	
.8003	7.89	-3.51	56.00	-59.51	-10.99	46.00	-56.99	
.8858	8.75	-2.40	56.00	-58.40	-11.01	46.00	-57.01	
.9758	5.00	-5.80	56.00	-61.80	-11.30	46.00	-57.30	
1.0230	7.93	-3.56	56.00	-59.56	-10.92	46.00	-56.92	
1.3065	7.07	-4.83	56.00	-60.83	-11.12	46.00	-57.12	
1.5608	6.18	-5.27	56.00	-61.27	-11.02	46.00	-57.02	
2.0400	7.94	-4.30	56.00	-60.30	-10.67	46.00	-56.67	
2.5823	7.53	-3.22	56.00	-59.22	-9.35	46.00	-55.35	
2.8140	6.81	-3.46	56.00	-59.46	-9.20	46.00	-55.20	
3.7140	7.04	-4.17	56.00	-60.17	-9.63	46.00	-55.63	
4.5150	6.76	-3.70	56.00	-59.70	-9.17	46.00	-55.17	
5.3453	7.37	-3.28	60.00	-63.28	-8.72	50.00	-58.72	
6.2880	7.56	-3.27	60.00	-63.27	-8.62	50.00	-58.62	
7.5053	7.76	-2.95	60.00	-62.95	-8.48	50.00	-58.48	
8.8890	11.89	-0.37	60.00	-60.37	-8.09	50.00	-58.09	
10.7925	8.80	-1.88	60.00	-61.88	-6.51	50.00	-56.51	
12.0615	7.52	-2.63	60.00	-62.63	-8.30	50.00	-58.30	
12.7995	9.22	-0.47	60.00	-60.47	-5.28	50.00	-55.28	
14.2125	8.29	-2.42	60.00	-62.42	-7.93	50.00	-57.93	

6. Measurement Data (continued)

6.9. Conducted Emissions Test Results (continued)

6.9.1. 120 Volts, 60 Hz Phase (continued)

Frequency (MHz)	Pk Amp (dBμV)	QP Amp (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Avg Amp (dBμV)	Avg Limit (dBμV)	Avg Margin (dB)	Comments
15.6165	7.77	-2.43	60.00	-62.43	-7.66	50.00	-57.66	
16.2263	7.78	-1.70	60.00	-61.70	-7.17	50.00	-57.17	
17.0723	7.66	-3.67	60.00	-63.67	-9.16	50.00	-59.16	
17.7045	7.40	-3.52	60.00	-63.52	-9.16	50.00	-59.16	
18.2400	8.54	-0.74	60.00	-60.74	-6.06	50.00	-56.06	
19.7115	9.24	-1.38	60.00	-61.38	-6.56	50.00	-56.56	
20.2583	9.33	-0.17	60.00	-60.17	-5.07	50.00	-55.07	
21.6623	11.04	0.91	60.00	-59.09	-3.77	50.00	-53.77	
23.1270	13.79	7.02	60.00	-52.98	1.36	50.00	-48.64	
23.7390	11.69	0.68	60.00	-59.32	-2.94	50.00	-52.94	
24.3488	13.21	6.53	60.00	-53.47	-0.08	50.00	-50.08	
24.9608	13.22	6.62	60.00	-53.38	4.53	50.00	-45.47	
25.6943	15.64	8.86	60.00	-51.14	3.92	50.00	-46.08	
26.4863	13.77	6.46	60.00	-53.54	1.48	50.00	-48.52	
27.3435	11.33	1.52	60.00	-58.48	-4.90	50.00	-54.90	
29.2335	12.76	2.26	60.00	-57.74	-2.67	50.00	-52.67	
29.9063	14.45	3.11	60.00	-56.89	-2.91	50.00	-52.91	

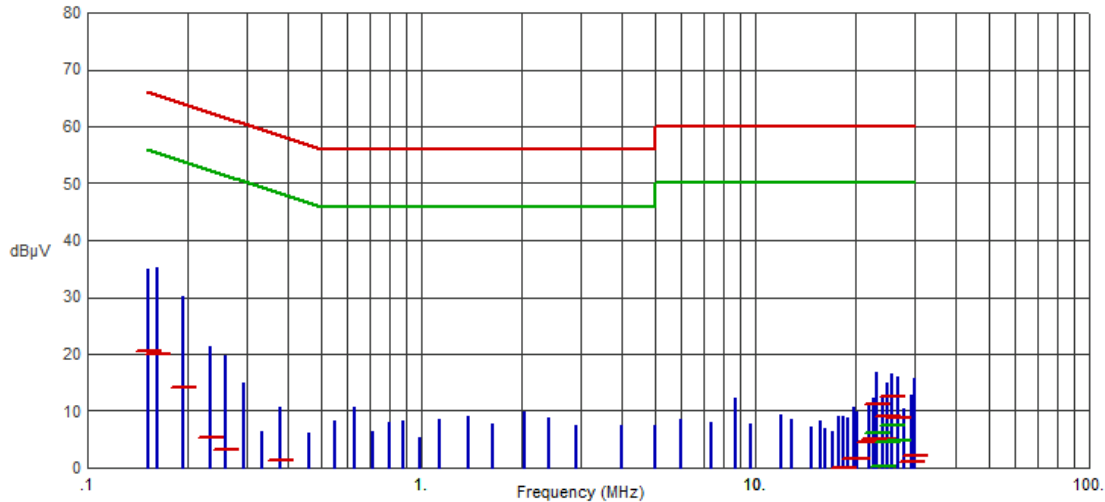
6. Measurement Data (continued)

6.9. Conducted Emissions Test Results (continued)

6.9.2. 120 Volts, 60 Hz Neutral

Test No.: 238-24, 120 Volts, 60 Hz Neutral

FCC, Class B



Frequency (MHz)	Pk Amp (dBμV)	QP Amp (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Avg Amp (dBμV)	Avg Limit (dBμV)	Avg Margin (dB)	Comments
.1523	34.95	20.60	65.87	-45.27	-0.12	55.87	-55.99	
.1613	35.17	19.89	65.40	-45.51	-1.87	55.40	-57.27	
.1928	30.19	14.21	63.92	-49.71	-5.16	53.92	-59.08	
.2333	21.23	5.38	62.33	-56.95	-8.70	52.33	-61.03	
.2580	19.77	3.14	61.50	-58.36	-9.37	51.50	-60.87	
.2940	14.84	-1.19	60.41	-61.60	-9.98	50.41	-60.39	
.3323	6.46	-4.83	59.39	-64.22	-10.55	49.39	-59.94	
.3795	10.68	1.40	58.29	-56.89	-10.12	48.29	-58.41	
.4605	6.25	-5.45	56.68	-62.13	-11.16	46.68	-57.84	
.5483	8.31	-3.17	56.00	-59.17	-10.98	46.00	-56.98	
.6315	10.70	-1.09	56.00	-57.09	-10.88	46.00	-56.88	
.7148	6.42	-5.72	56.00	-61.72	-11.16	46.00	-57.16	
.8003	7.91	-3.64	56.00	-59.64	-11.02	46.00	-57.02	
.8858	8.30	-2.35	56.00	-58.35	-10.86	46.00	-56.86	
.9870	5.26	-5.66	56.00	-61.66	-11.24	46.00	-57.24	
1.1378	8.65	-2.80	56.00	-58.80	-10.75	46.00	-56.75	
1.3898	8.99	-3.04	56.00	-59.04	-10.83	46.00	-56.83	
1.6418	7.86	-3.94	56.00	-59.94	-10.85	46.00	-56.85	
2.0445	9.89	-4.21	56.00	-60.21	-10.53	46.00	-56.53	
2.4023	8.70	-4.06	56.00	-60.06	-10.08	46.00	-56.08	
2.9063	7.34	-3.26	56.00	-59.26	-8.84	46.00	-54.84	
3.9930	7.39	-3.85	56.00	-59.85	-9.41	46.00	-55.41	
5.0010	7.49	-3.19	60.00	-63.19	-8.85	50.00	-58.85	
6.0068	8.66	-2.98	60.00	-62.98	-8.71	50.00	-58.71	
7.3703	7.93	-3.12	60.00	-63.12	-8.57	50.00	-58.57	
8.7180	12.32	-0.02	60.00	-60.02	-7.80	50.00	-57.80	
9.7260	7.80	-3.04	60.00	-63.04	-8.56	50.00	-58.56	
11.8950	9.46	-0.07	60.00	-60.07	-5.47	50.00	-55.47	
12.8018	8.42	-0.56	60.00	-60.56	-5.71	50.00	-55.71	
14.6580	7.31	-3.26	60.00	-63.26	-8.63	50.00	-58.63	
15.6165	8.29	-1.52	60.00	-61.52	-7.25	50.00	-57.25	

6. Measurement Data (continued)

6.9. Conducted Emissions Test Results (continued)

6.9.2. 120 Volts, 60 Hz Neutral (continued)

Frequency (MHz)	Pk Amp (dBμV)	QP Amp (dBμV)	QP Limit (dBμV)	QP Margin (dB)	Avg Amp (dBμV)	Avg Limit (dBμV)	Avg Margin (dB)	Comments
16.1723	6.86	-3.22	60.00	-63.22	-8.87	50.00	-58.87	
17.0948	6.48	-3.69	60.00	-63.69	-9.16	50.00	-59.16	
17.6933	9.10	-1.23	60.00	-61.23	-5.66	50.00	-55.66	
18.3053	8.95	0.09	60.00	-59.91	-6.40	50.00	-56.40	
18.9150	8.82	-0.66	60.00	-60.66	-6.18	50.00	-56.18	
19.7093	10.73	1.56	60.00	-58.44	-4.86	50.00	-54.86	
20.2605	9.98	1.63	60.00	-58.37	-3.50	50.00	-53.50	
21.9075	11.10	4.42	60.00	-55.58	-1.75	50.00	-51.75	
22.5780	12.24	5.07	60.00	-54.93	-0.75	50.00	-50.75	
23.1293	16.84	11.16	60.00	-48.84	6.17	50.00	-43.83	
24.1058	12.59	5.09	60.00	-54.91	0.20	50.00	-49.80	
24.8978	15.02	8.98	60.00	-51.02	4.42	50.00	-45.58	
25.6943	16.63	12.46	60.00	-47.54	7.35	50.00	-42.65	
26.6100	16.10	8.77	60.00	-51.23	4.85	50.00	-45.15	
27.8655	10.40	-0.42	60.00	-60.42	-5.95	50.00	-55.95	
29.2380	12.75	0.98	60.00	-59.02	-4.62	50.00	-54.62	
29.9513	15.81	2.01	60.00	-57.99	-3.97	50.00	-53.97	

7. Test Setup Photographs

7.1 Radiated Spurious Emissions 9 kHz to 1 GHz, Front View



7. Test Setup Photographs

7.2 Radiated Spurious Emissions < 30 MHz, Rear View



7. Test Setup Photographs

7.3 Radiated Field Strength and Spurious Emissions, 30 MHz to 1 GHz, Rear View



7. Test Setup Photographs

7.4. Radiated Harmonics and Spurious Emissions >1 GHz, Front View



7. Test Setup Photographs

7.5. Radiated Harmonics and Spurious Emissions >1 GHz, Rear View



7. Test Images (continued)

7.6. Conducted Emissions, Front View



7. Test Images (continued)

7.7. Conducted Emissions, Rear View



8. Test Site Description

Compliance Worldwide is located at 357 Main Street in Sandown, New Hampshire. The test sites at Compliance Worldwide are used for conducted and radiated emissions testing in accordance with the Federal Communications Commission (FCC) and Innovation Science and Economic Development Canada (ISED) standards. Through our American Association for Laboratory Accreditation (A2LA) ISO Guide 17025 Accreditation our test sites are designated with the FCC (designation number **US1091**) and Industry Canada (file number **IC 3023A-1**).

Compliance Worldwide is also designated as a Phase 1 CAB under APEC-MRA (US0132) for Australia/New Zealand AS/NZS CISPR 11, AS/NZS CISPR 14-1, AS/NZS CISPR 15, AS/NZS CISPR 32, Chinese-Taipei (Taiwan) BSMI CNS 15936 and Korea (RRA) KS C 9811, KS C 9814-1, KS C 9815, KS C 9832, KS C 9610-6-3 & KS C 9610-6-4.

The radiated emissions test site is a 3- and 10-meter enclosed open area test site (OATS). Personnel, support equipment and test equipment are located in the basement beneath the OATS ground plane.

The conducted emissions site is part of a 16' x 20' x 12' ferrite tile chamber and uses one of the walls for the vertical ground plane required by EN 55022. A second conducted emissions site is also located in the basement of the OATS site with a 2.3 x 2.5-meter ground plane and a 2.4 x 2.4-meter vertical wall.

The radiated emissions test site for measurements above 1GHz is a 3 Meter open area test site (OATS) with a 3.6 by 3.6-meter anechoic absorber floor patch to achieve a quasi-free space measurement environment per ANSI C63.4/C63.10 and CISPR 16-1-4 standards.

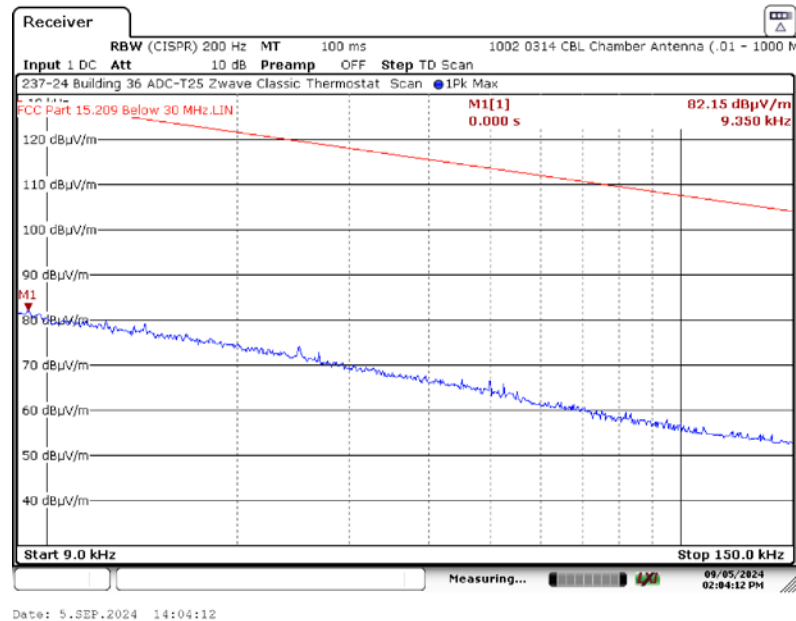
The sites are designed to test products or systems 1.5 meters W x 1.5 meters L x 2.0 meters H, floor standing or tabletop.

Appendix A

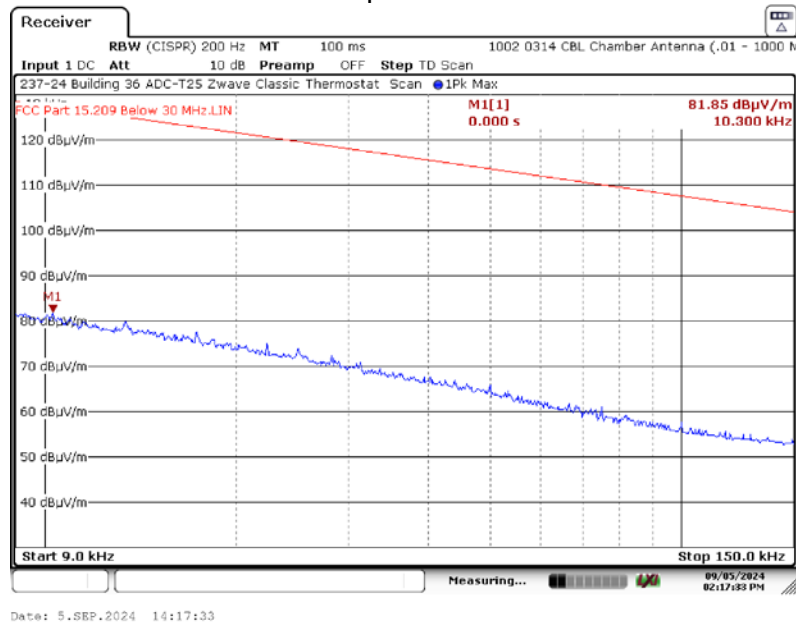
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental = 908.4 MHz

A.1.1. Measurement Results – Parallel Antenna – X Axis



A.1.2. Measurement Results – Perpendicular Antenna

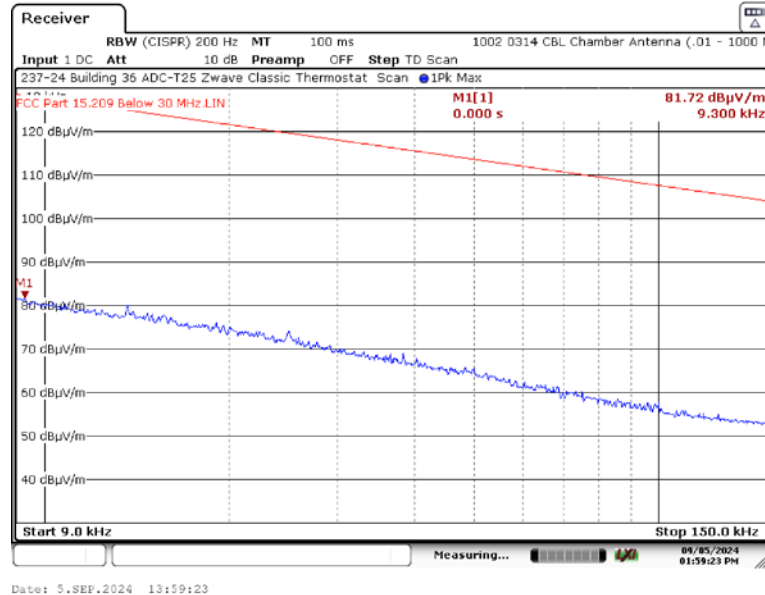


Appendix A (continued)

Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)

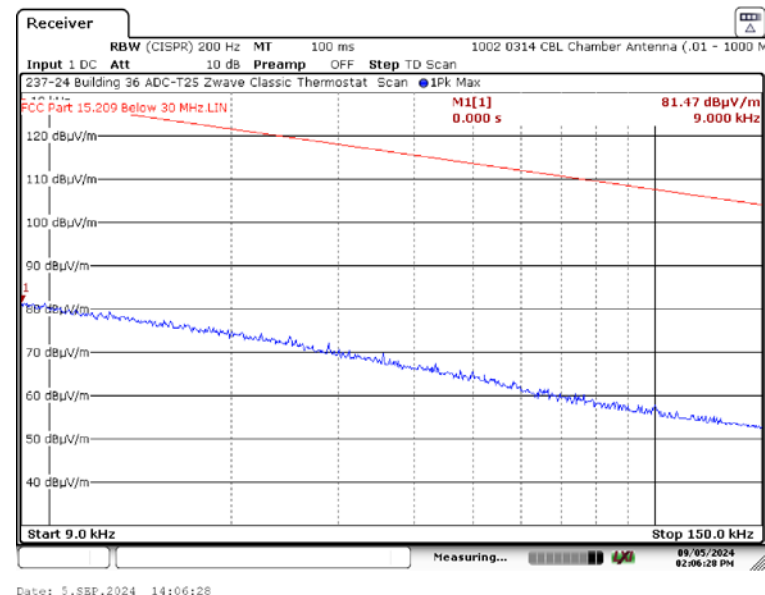
A.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental Freq. = 908.4 MHz

A.1.3. Measurement Results – Ground Parallel Antenna – X Axis



A.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental = 908.4 MHz

A.1.4. Measurement Results – Parallel Antenna – Y Axis

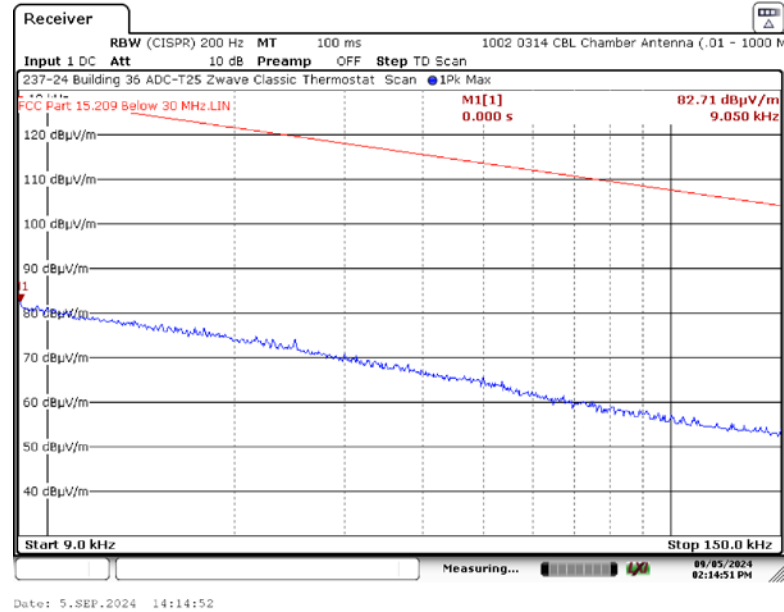


Appendix A (continued)

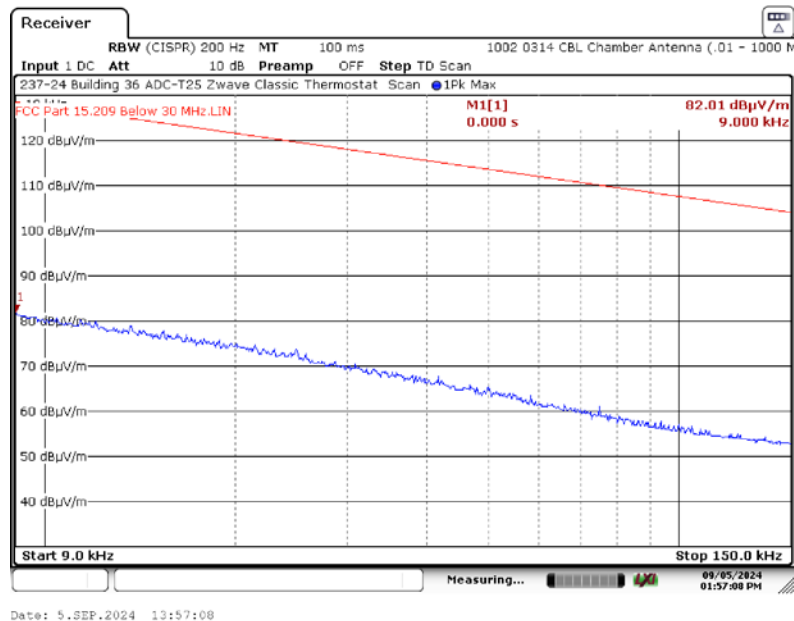
**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

A.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental Freq. = 908.4 MHz

A.1.5. Measurement Results – Perpendicular Antenna – Y Axis



A.1.6. Measurement Results – Ground Parallel Antenna – Y Axis

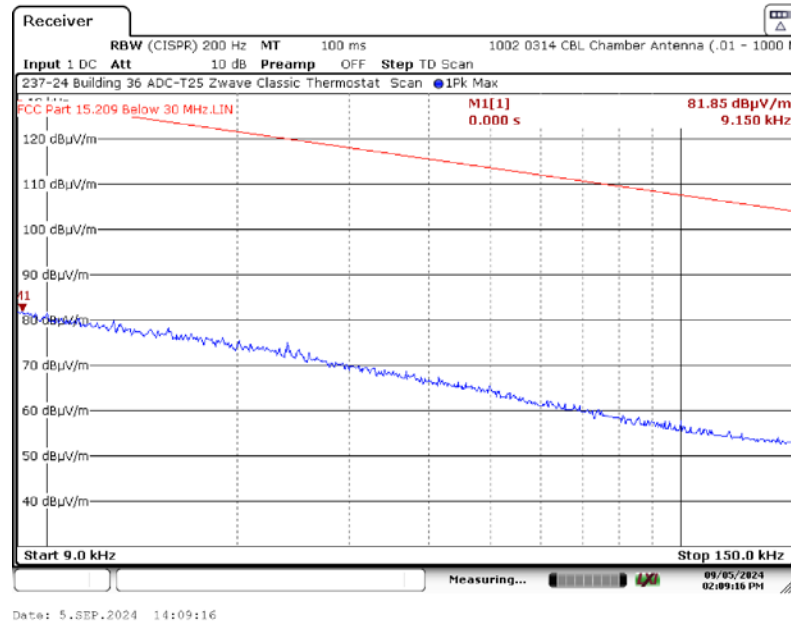


Appendix A (continued)

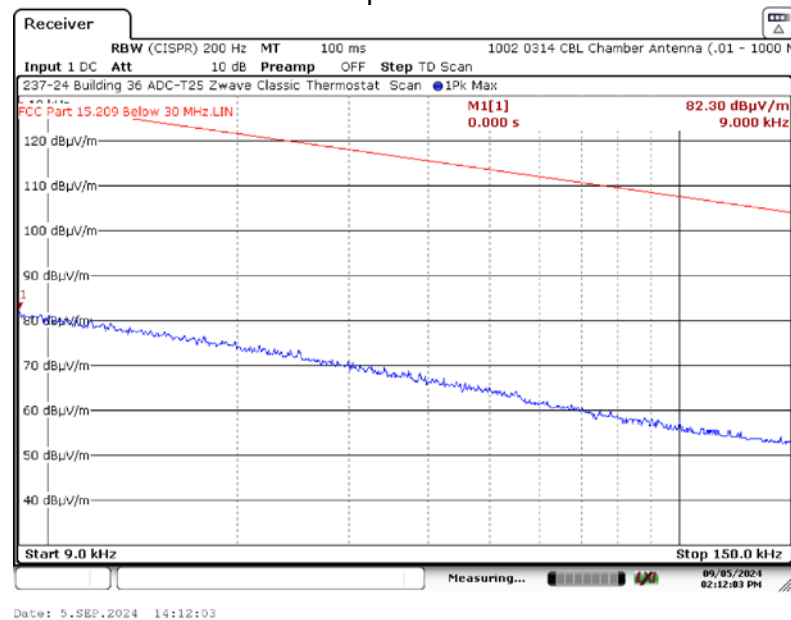
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental = 908.4 MHz

A.1.7. Measurement Results – Parallel Antenna – Z Axis



A.1.8. Measurement Results – Perpendicular Antenna – Z Axis

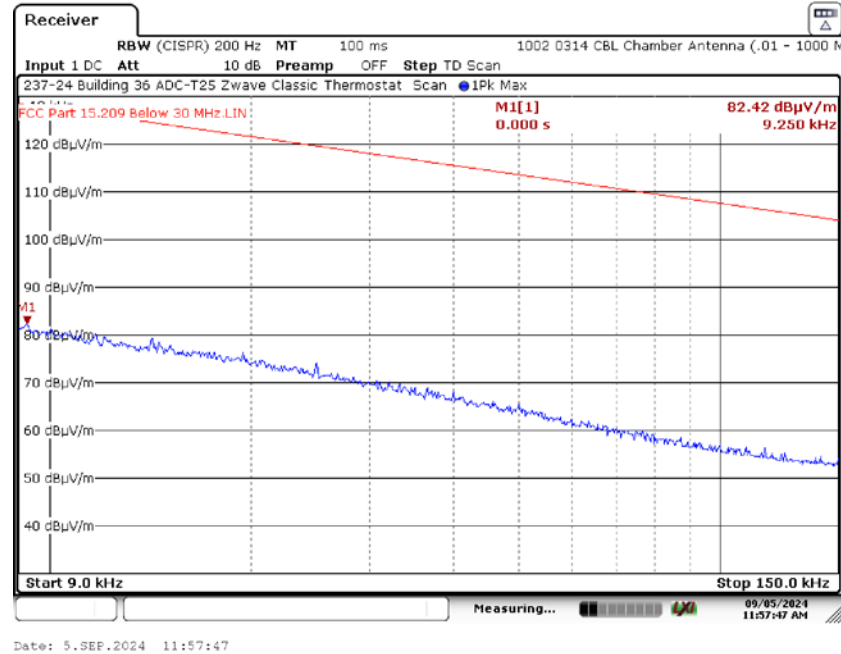


Appendix A (continued)

**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

A.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental Freq. = 908.4 MHz

A.1.9. Measurement Results – Ground Parallel Antenna – Z Axis

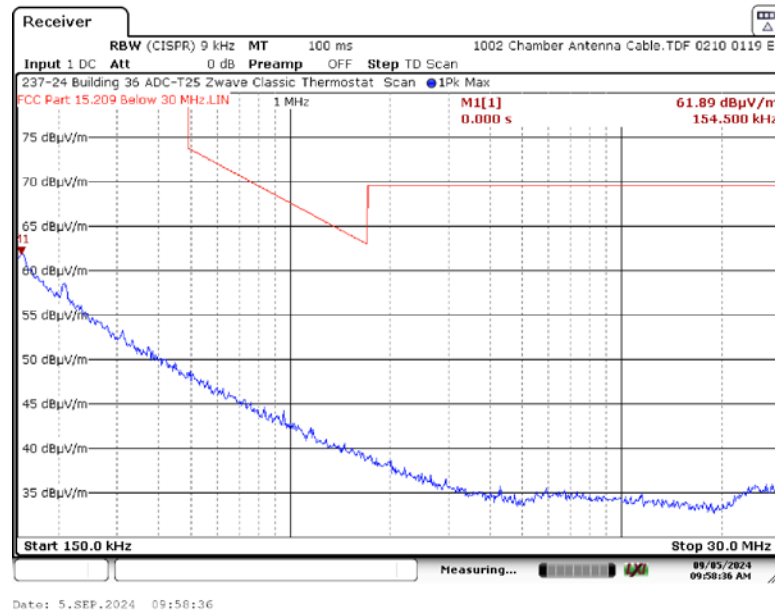


Appendix A (continued)

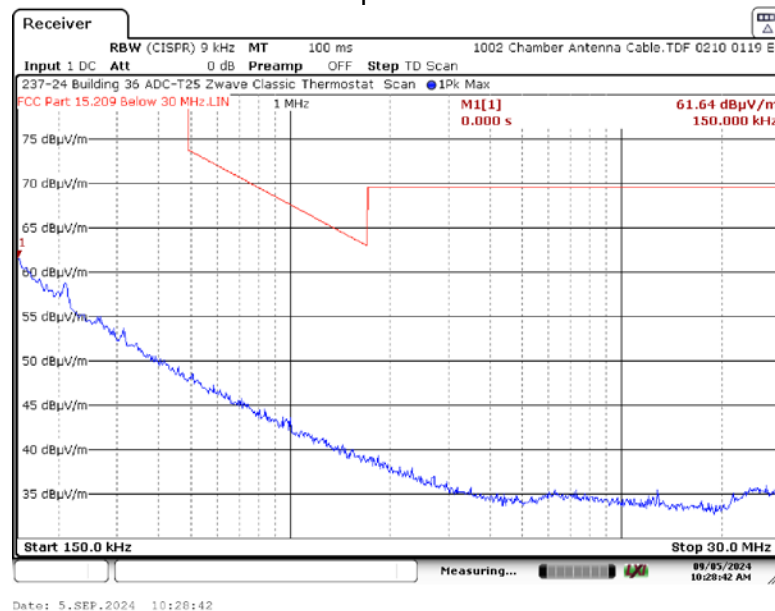
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 908.4 MHz

A.2.1. Measurement Results – Parallel Antenna – X Axis



A.2.2. Measurement Results – Perpendicular Antenna

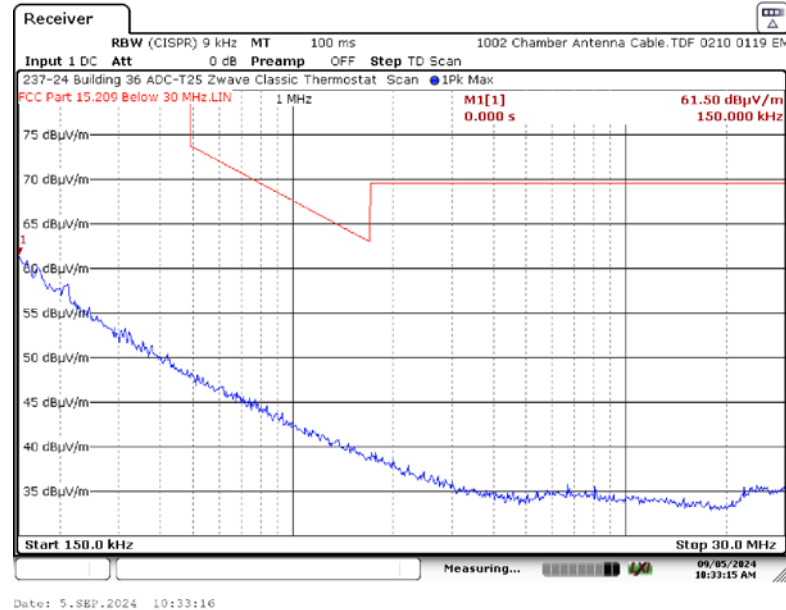


Appendix A (continued)

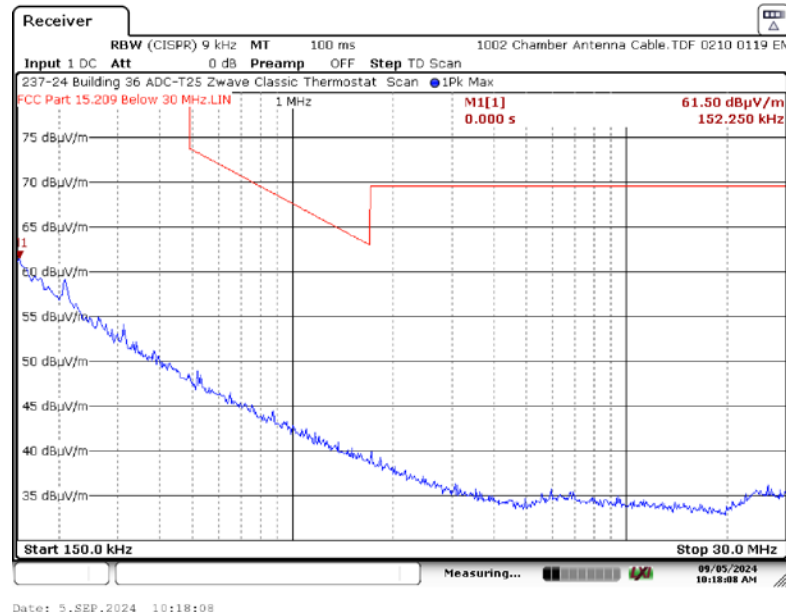
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 908.4 MHz

A.2.3. Measurement Results – Ground Parallel Antenna – X Axis



A.2.4. Measurement Results – Parallel Antenna – Y Axis

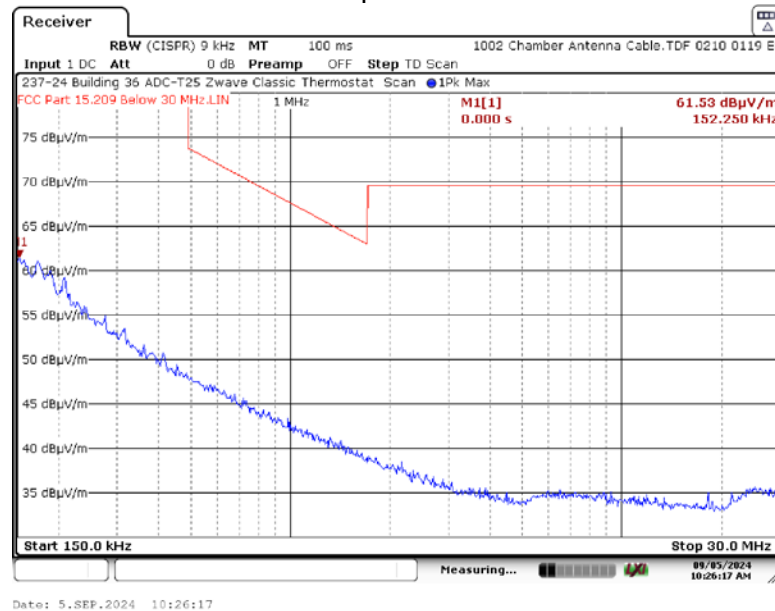


Appendix A (continued)

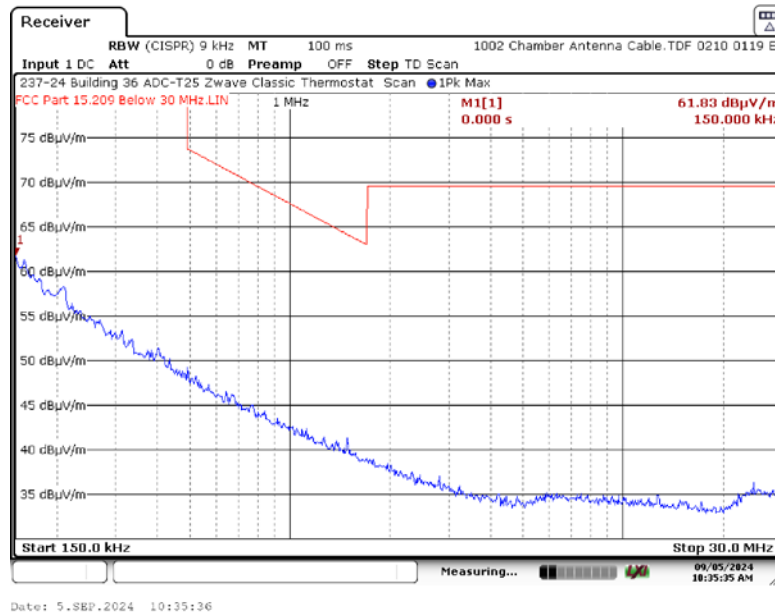
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 908.4 MHz

A.2.5. Measurement Results – Perpendicular Antenna – Y Axis



A.2.6. Measurement Results – Ground Parallel Antenna

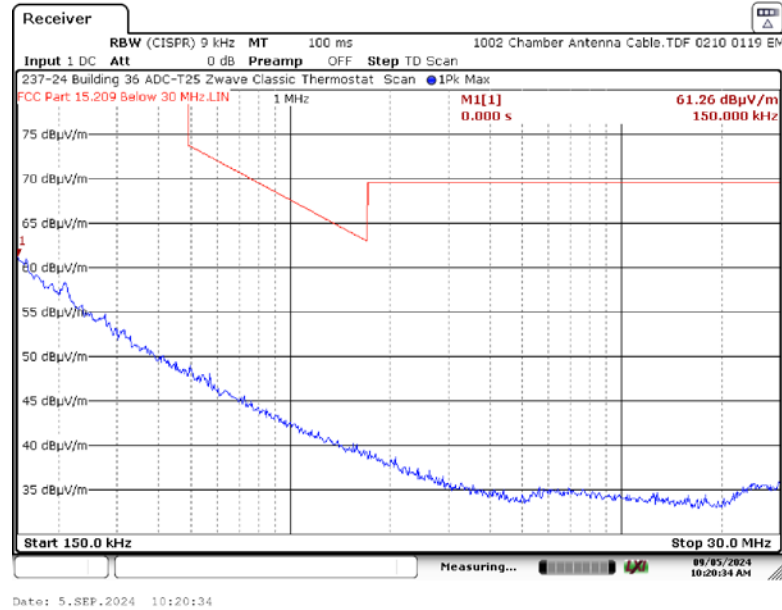


Appendix A (continued)

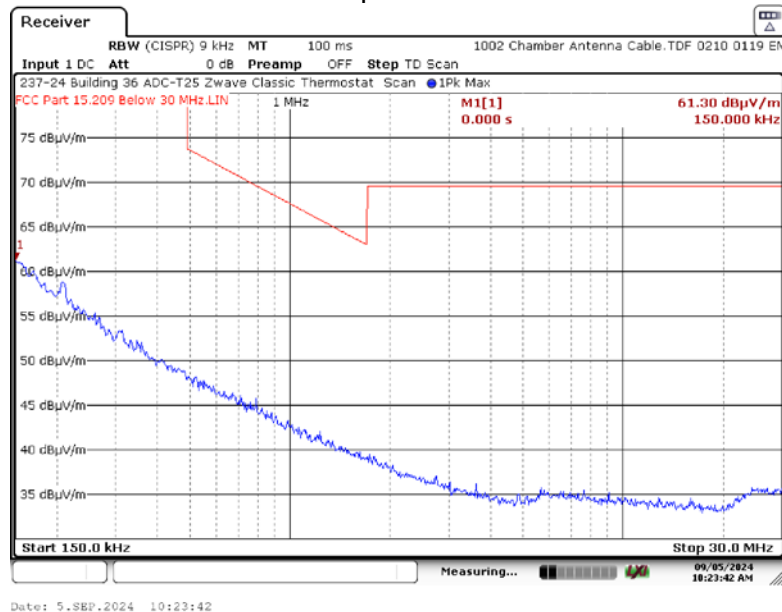
**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 908.4 MHz

A.2.7. Measurement Results – Parallel Antenna – Z Axis



A.2.8. Measurement Results – Perpendicular Antenna

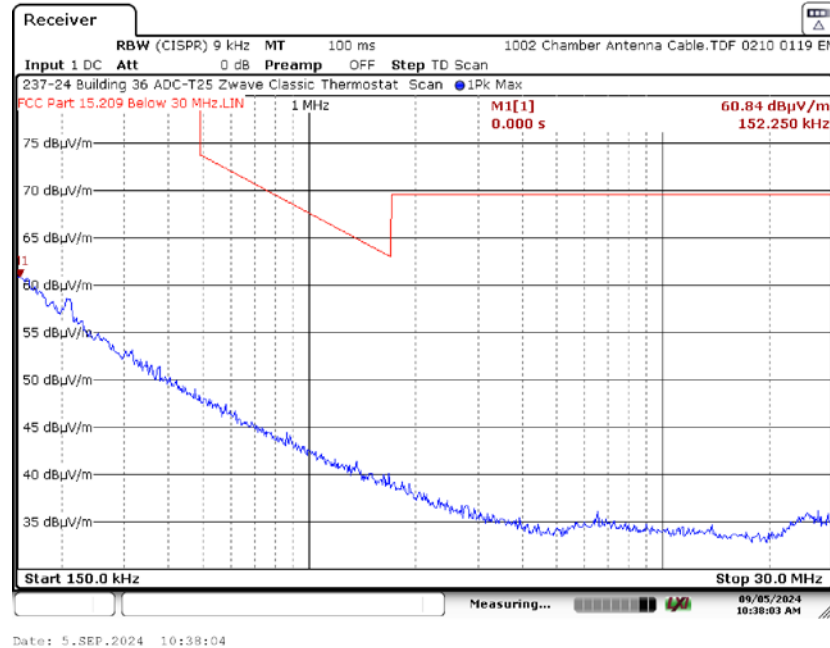


Appendix A (continued)

**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

A.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 908.4 MHz

A.2.9. Measurement Results – Ground Parallel Antenna – Z Axis

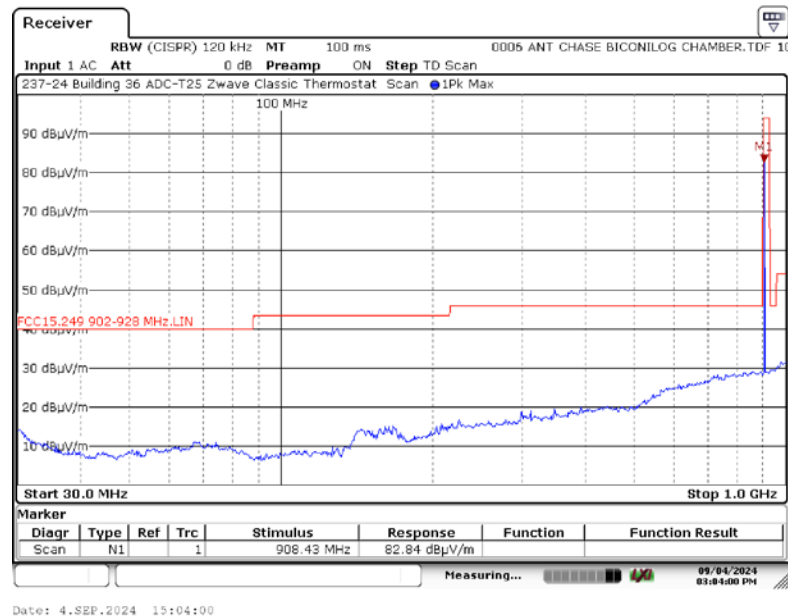


Appendix A (continued)

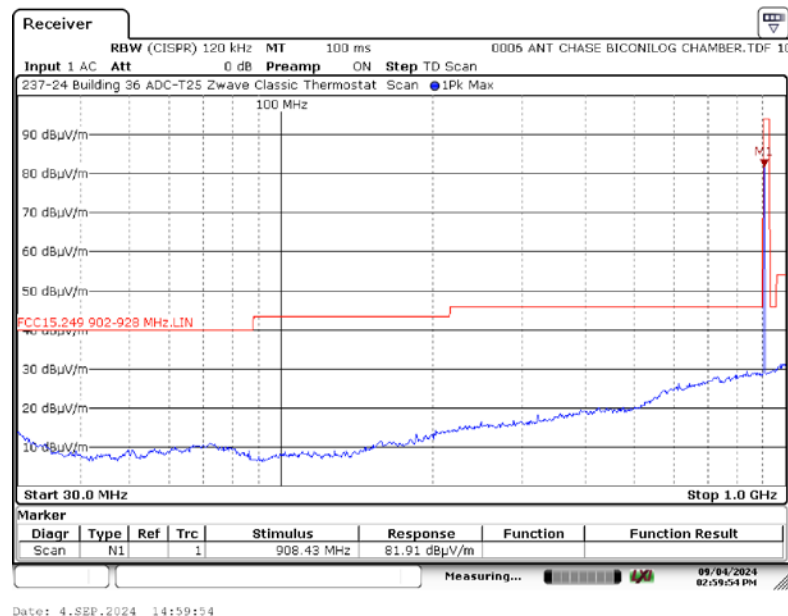
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz), Fundamental = 908.4 MHz

A.3.1. Measurement Results – Horizontal Antenna – X Axis



A.3.2. Measurement Results – Vertical Antenna

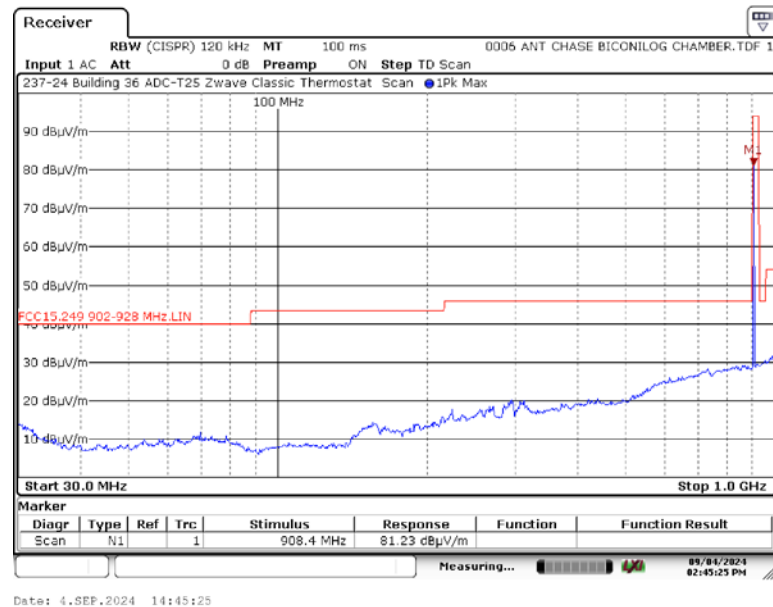


Appendix A (continued)

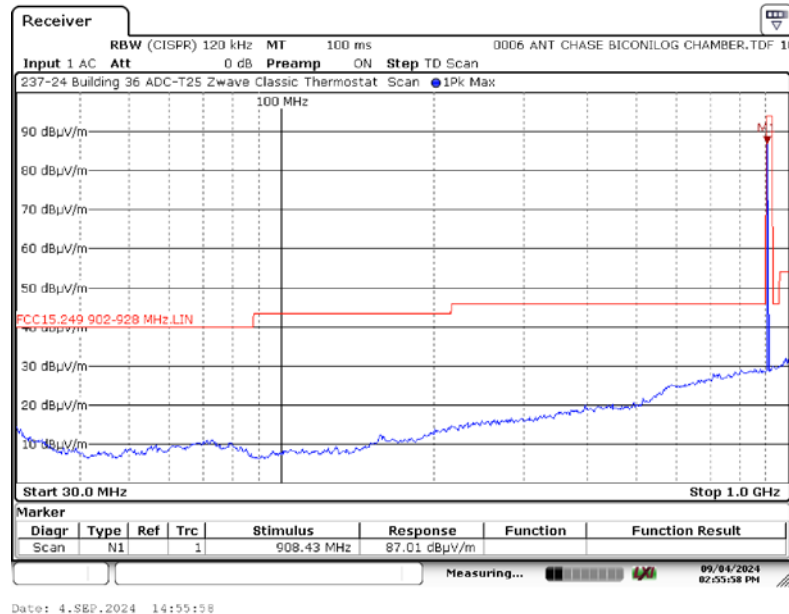
**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz), Fundamental = 908.4 MHz

A.3.3. Measurement Results – Horizontal Antenna – Y Axis



A.3.3. Measurement Results – Vertical Antenna

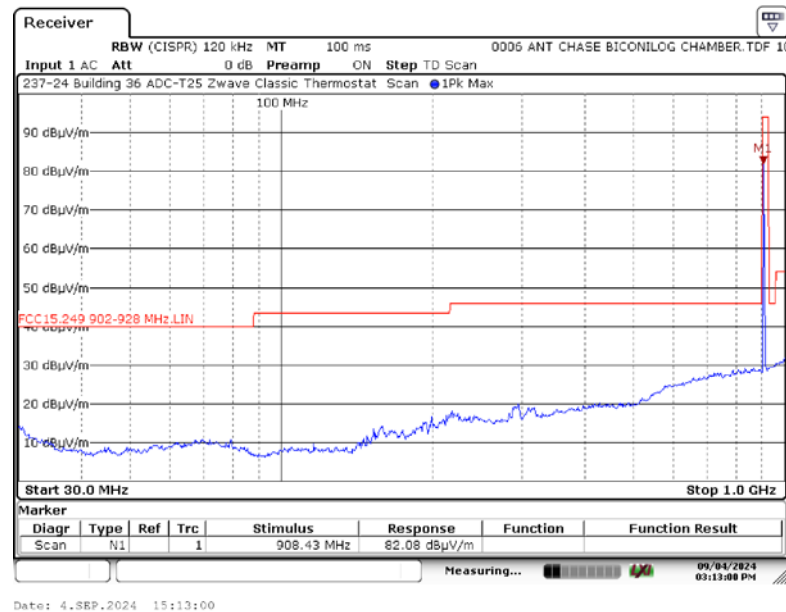


Appendix A (continued)

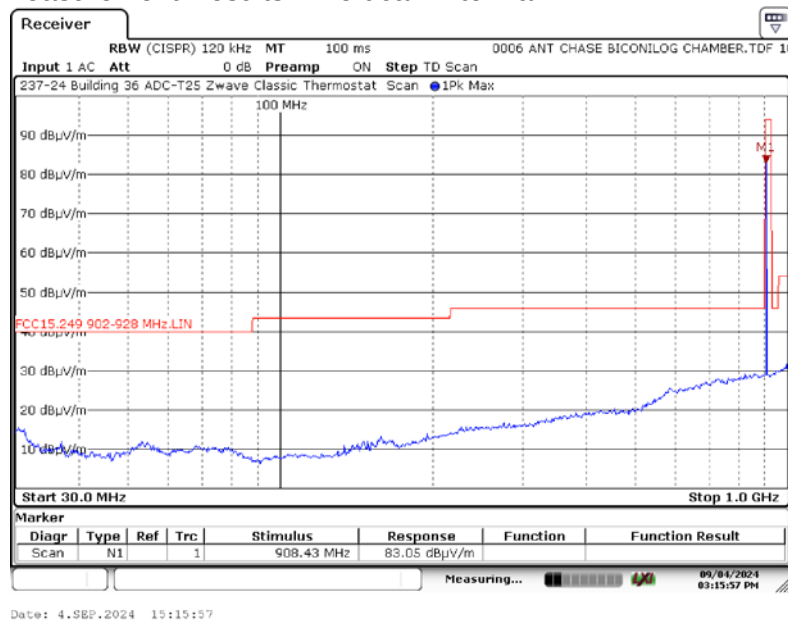
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.3. Spurious Radiated Emissions (30 MHz to 1 GHz), Fundamental = 908.4 MHz

A.3.5. Measurement Results – Horizontal Antenna – Z Axis



A.3.6. Measurement Results – Vertical Antenna

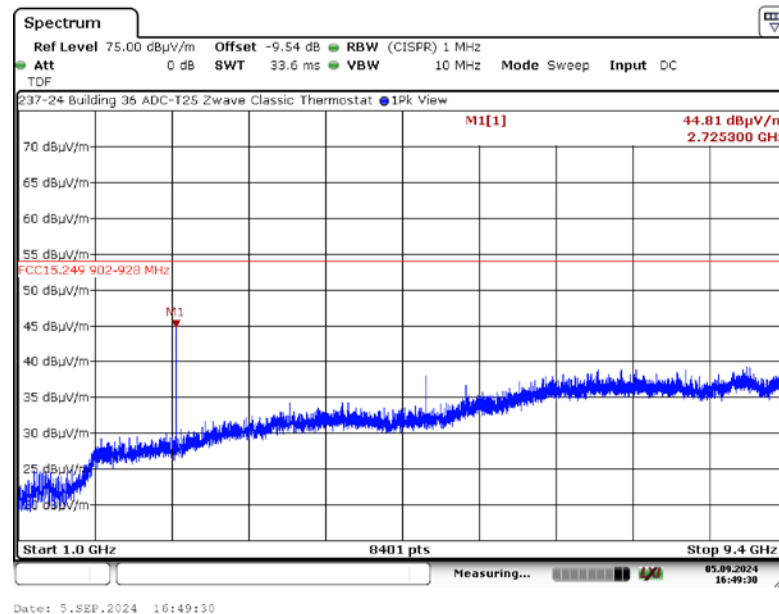


Appendix A (continued)

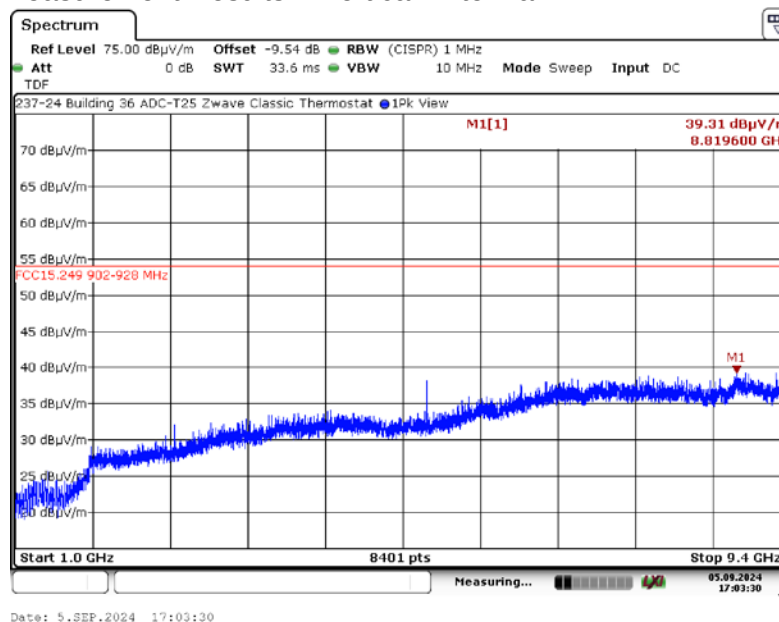
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.4. Spurious Radiated Emissions (1 GHz to 9.4 GHz), Fundamental = 908.4 MHz

A.4.1. Measurement Results – Horizontal Antenna – X Axis



A.4.2. Measurement Results – Vertical Antenna

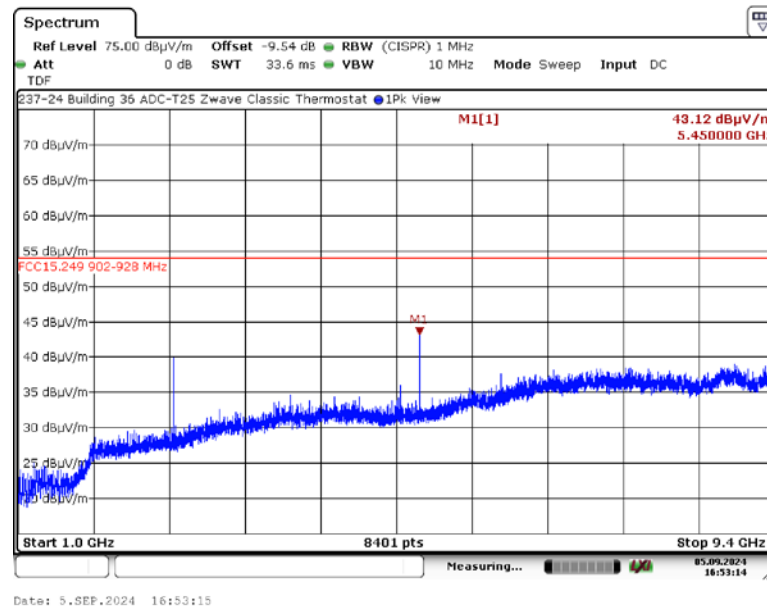


Appendix A (continued)

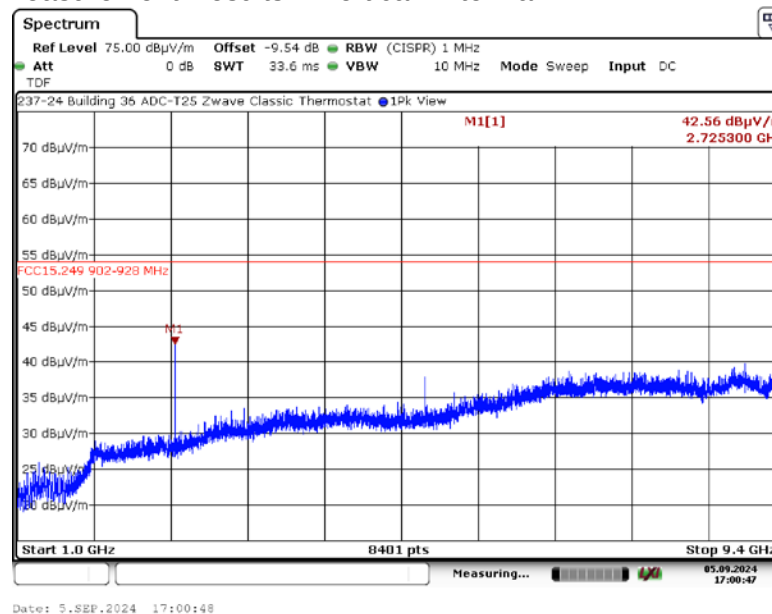
**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

A.4. Spurious Radiated Emissions (1 GHz to 9.4 GHz), Fundamental = 908.4 MHz

A.4.3. Measurement Results – Horizontal Antenna – Y Axis



A.4.4. Measurement Results – Vertical Antenna

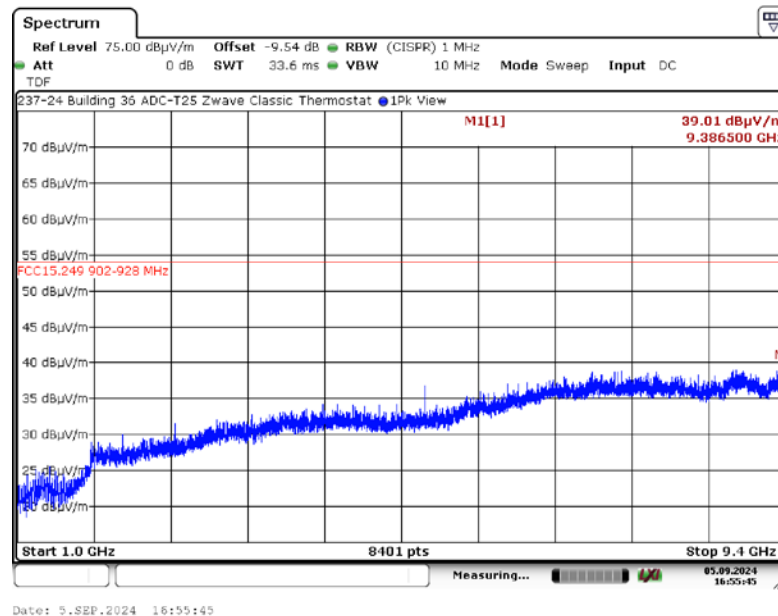


Appendix A (continued)

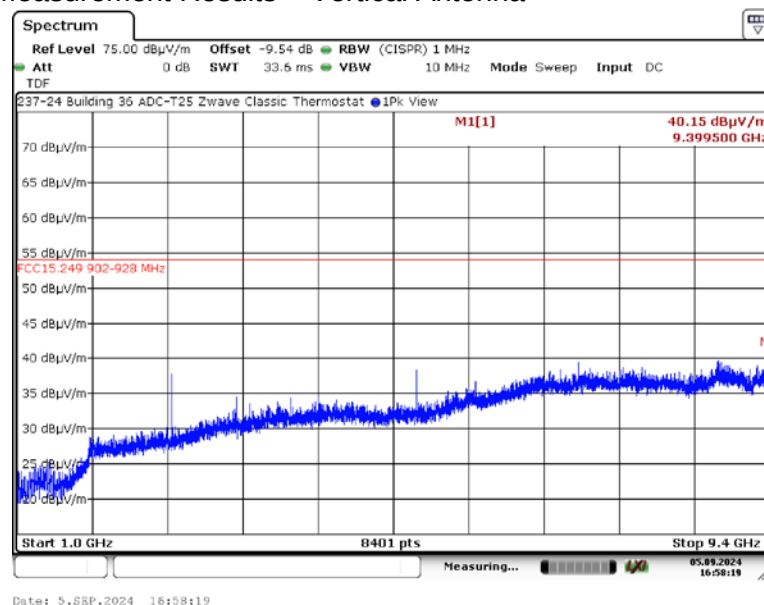
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

A.4. Spurious Radiated Emissions (1 GHz to 9.4 GHz), Fundamental = 908.4 MHz

A.4.5. Measurement Results – Horizontal Antenna – Z Axis



A.4.6. Measurement Results – Vertical Antenna

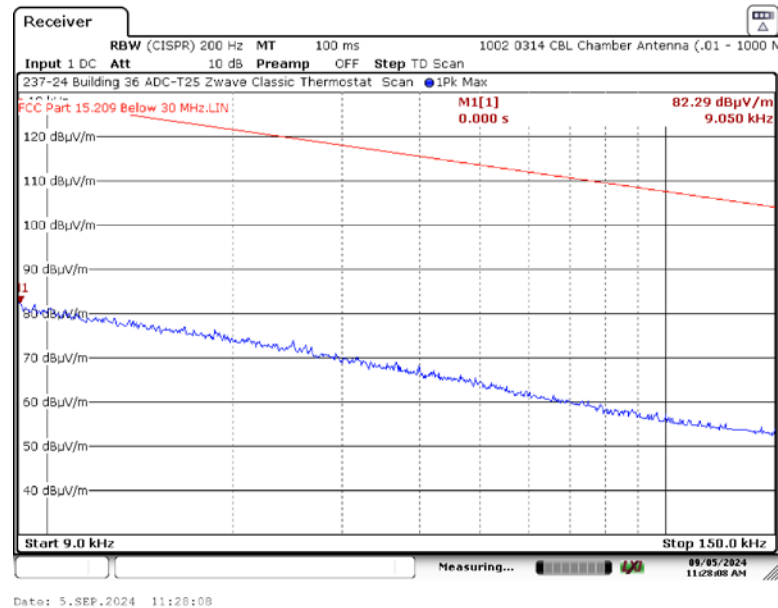


Appendix B

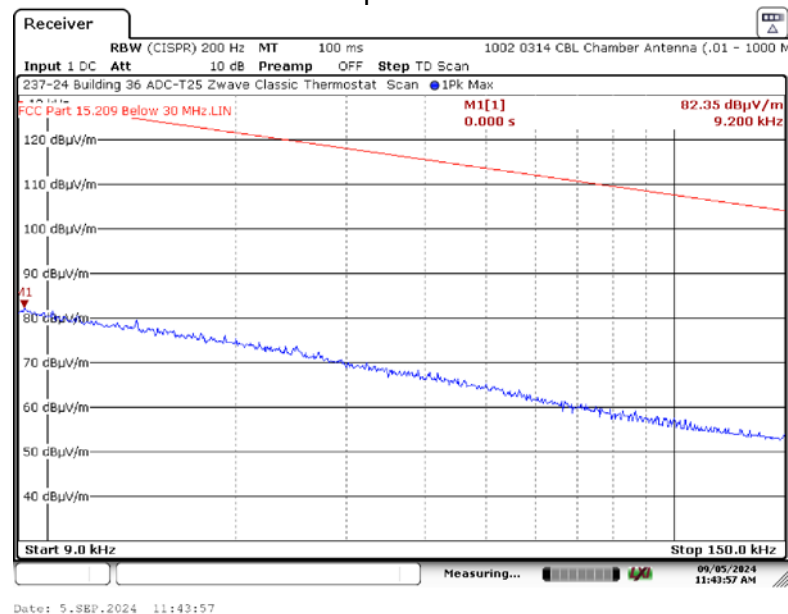
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental = 916.0 MHz

B.1.1. Measurement Results – Parallel Antenna – X Axis



B.1.2. Measurement Results – Perpendicular Antenna

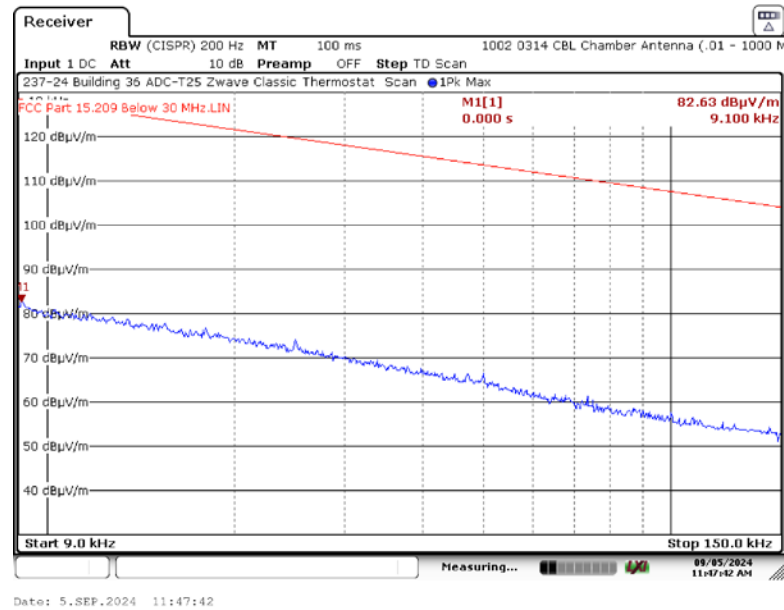


Appendix B (continued)

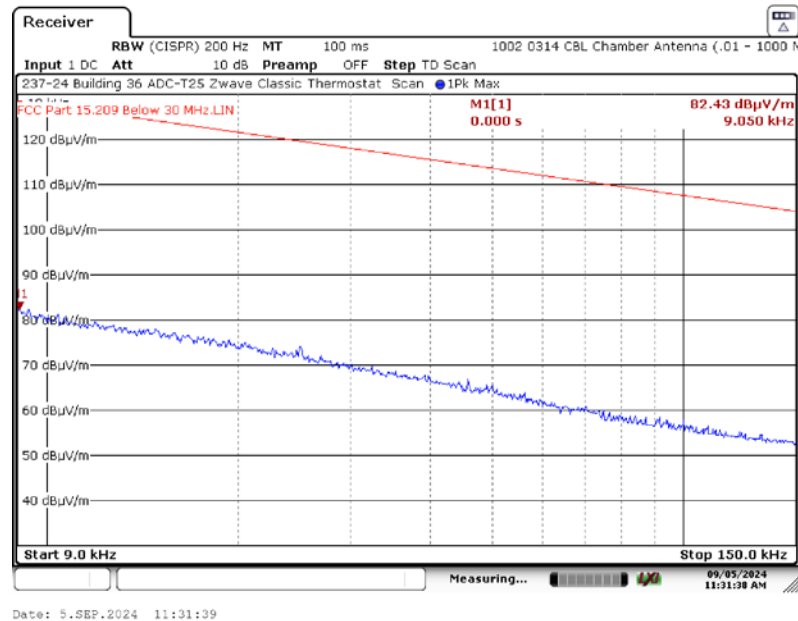
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental Freq. = 916.0 MHz

B.1.3. Measurement Results – Ground Parallel Antenna – X Axis



B.1.4. Measurement Results – Parallel Antenna – Y Axis

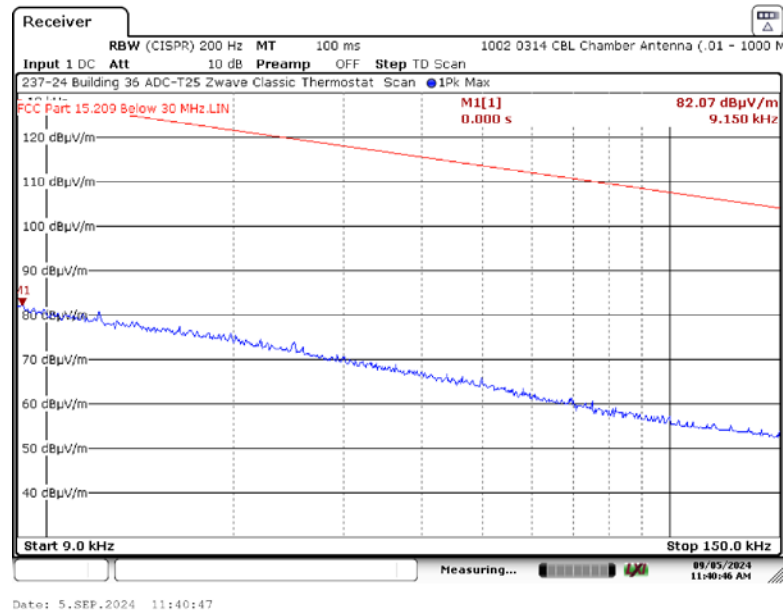


Appendix B (continued)

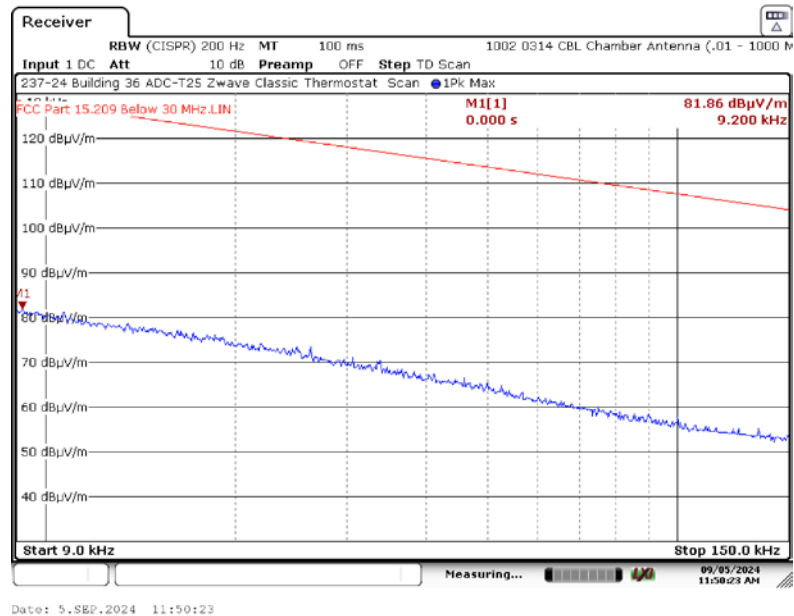
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental Freq. = 916.0 MHz

B.1.5. Measurement Results – Perpendicular Antenna – Y Axis



B.1.6. Measurement Results – Ground Parallel Antenna – Y Axis

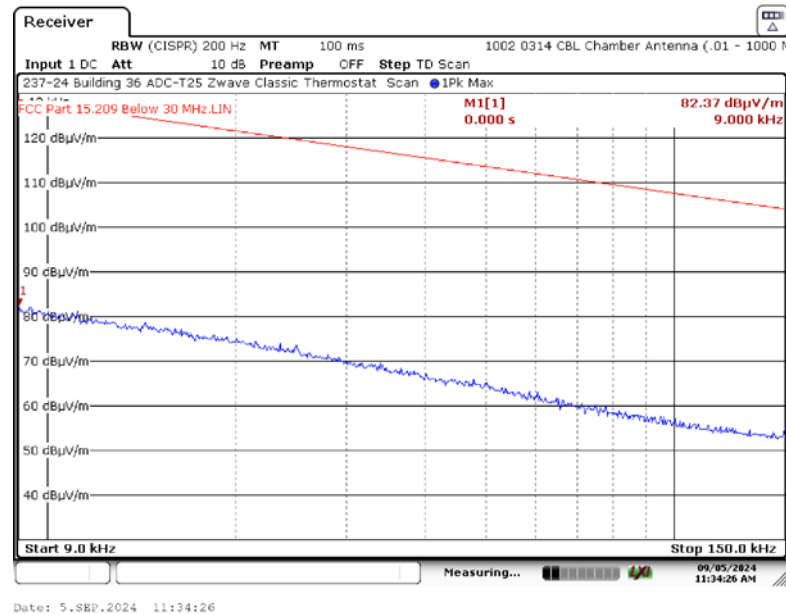


Appendix B (continued)

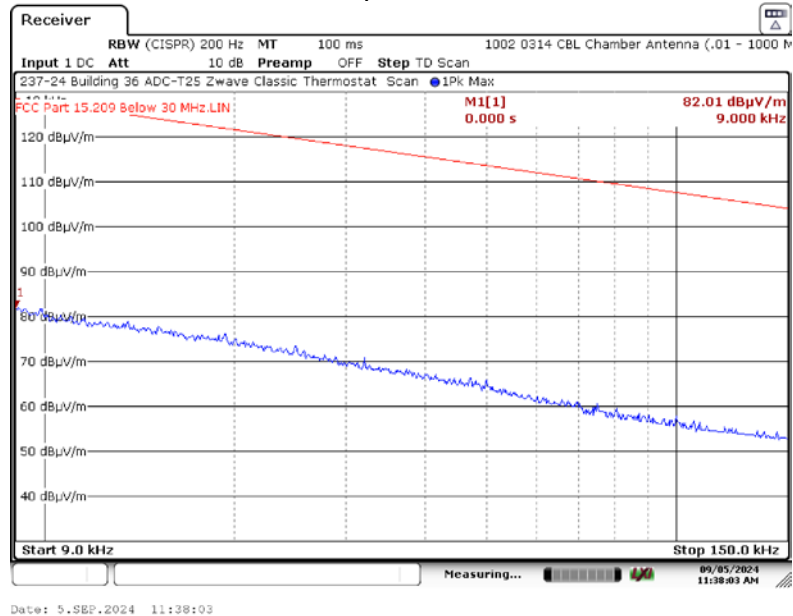
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental Freq. = 916.0 MHz

B.1.7. Measurement Results – Parallel Antenna – Z Axis



B.1.8. Measurement Results – Perpendicular Antenna – Z Axis

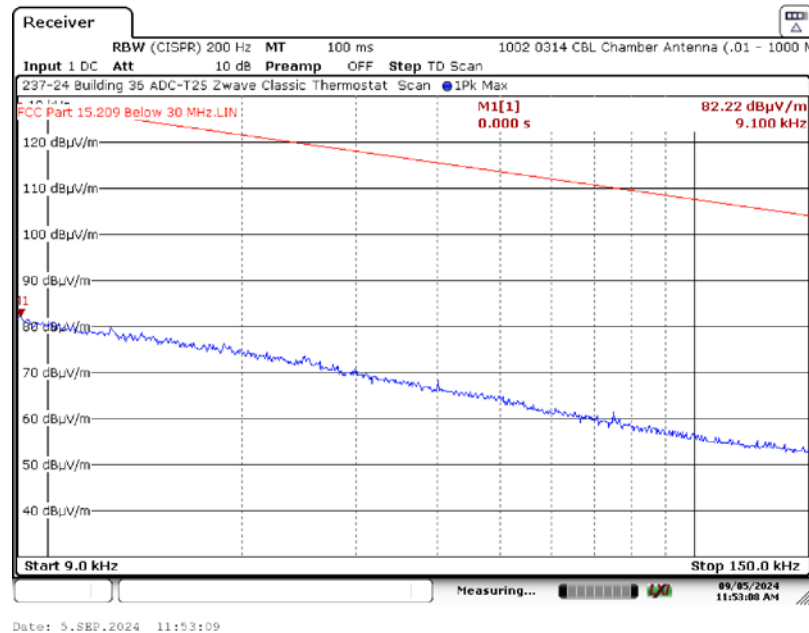


Appendix B (continued)

**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

B.1. Spurious Radiated Emissions (9 kHz to 150 kHz), Fundamental Freq. = 916.0 MHz

B.1.9. Measurement Results – Ground Parallel Antenna – Z Axis

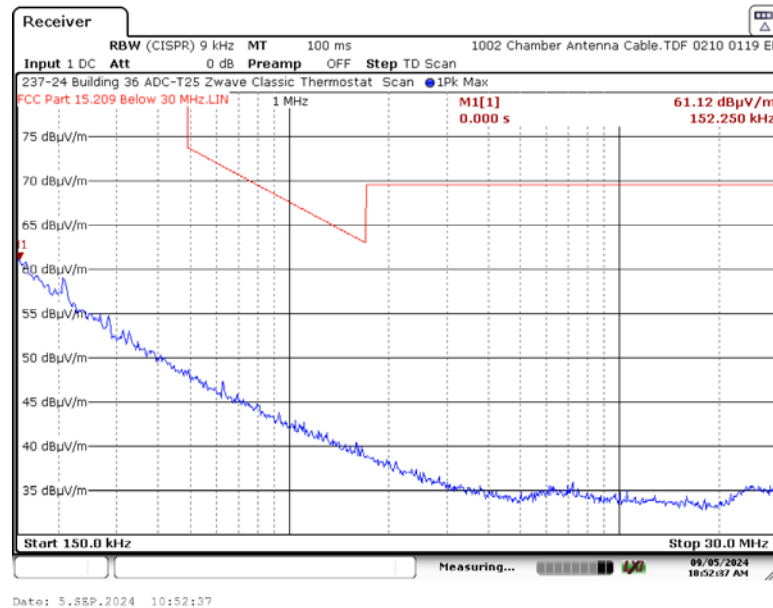


Appendix B (continued)

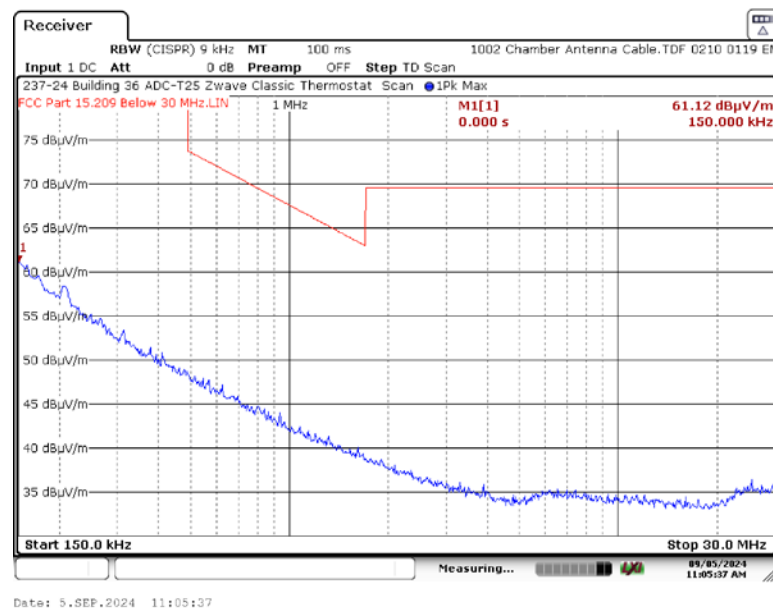
**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

B.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 916.0 MHz

B.2.1. Measurement Results – Parallel Antenna – X Axis



B.2.2. Measurement Results – Perpendicular Antenna – X Axis

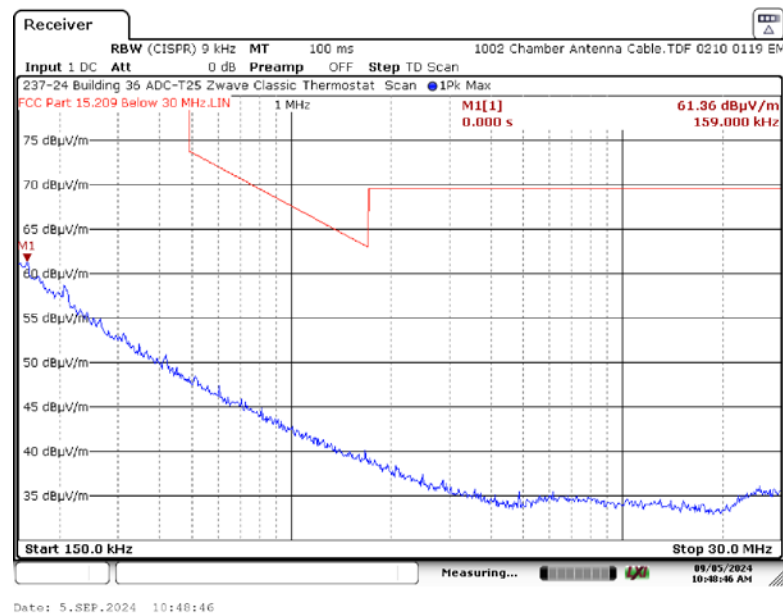


Appendix B (continued)

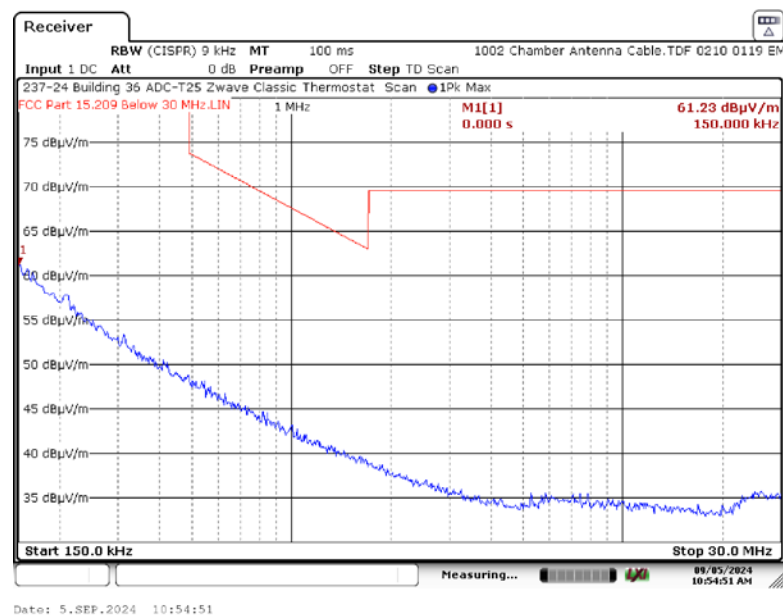
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 916.0 MHz

B.2.3. Measurement Results – Ground Parallel Antenna – X Axis



B.2.4. Measurement Results – Parallel Antenna – Y Axis

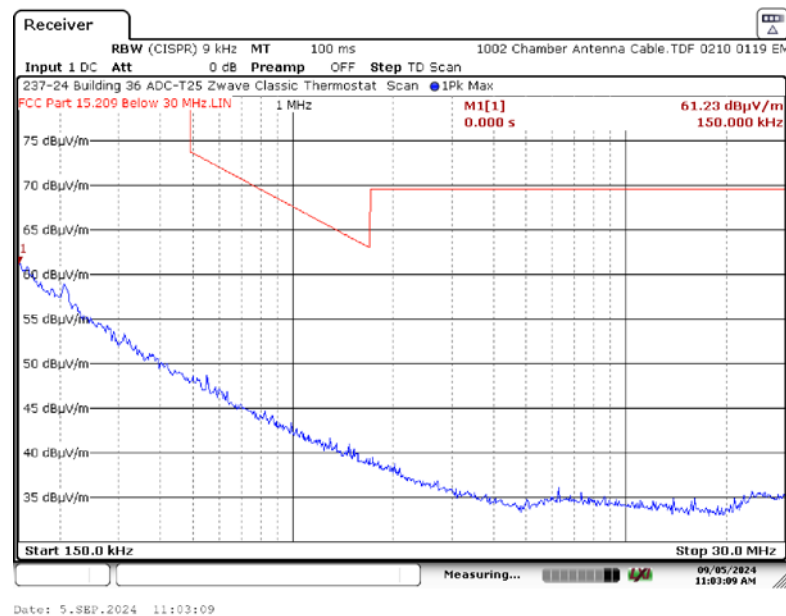


Appendix B (continued)

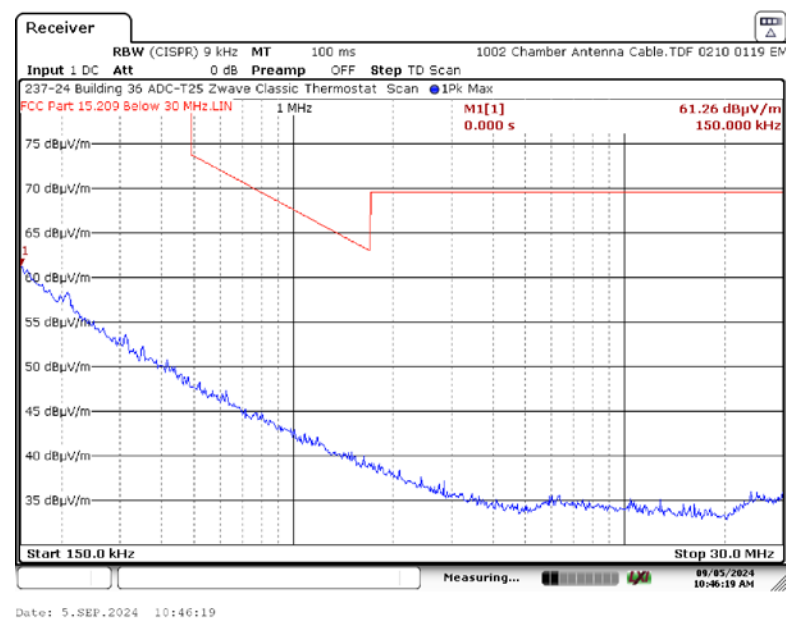
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 916.0 MHz

B.2.5. Measurement Results – Perpendicular Antenna – Y Axis



B.2.6. Measurement Results – Ground Parallel Antenna

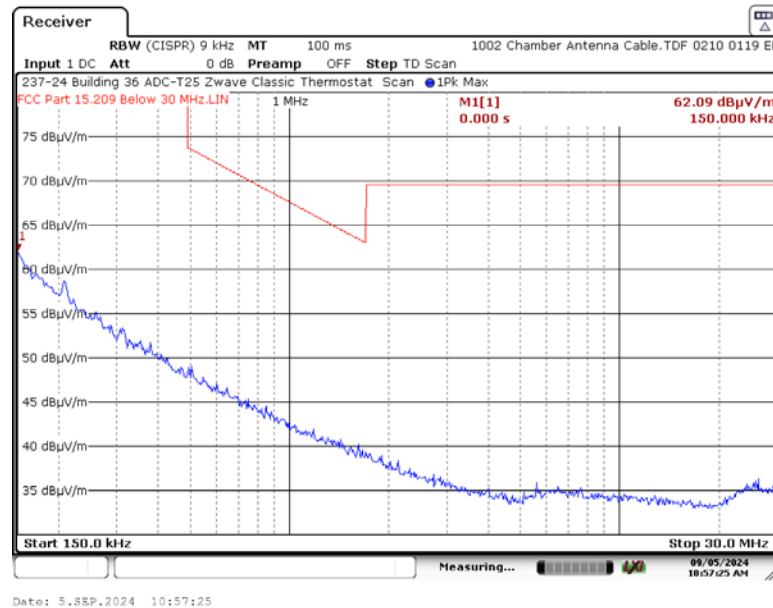


Appendix B (continued)

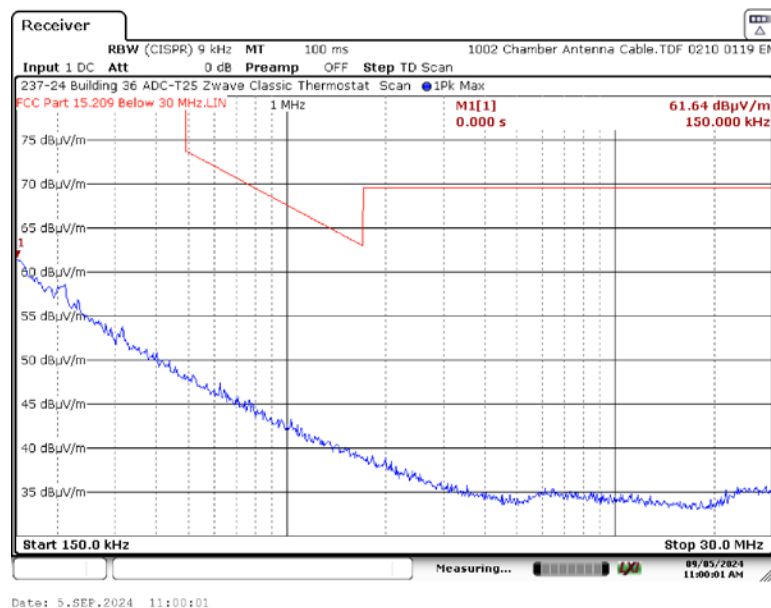
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 916.0 MHz

B.2.7. Measurement Results – Parallel Antenna – Z Axis



B.2.8. Measurement Results – Perpendicular Antenna – Z Axis

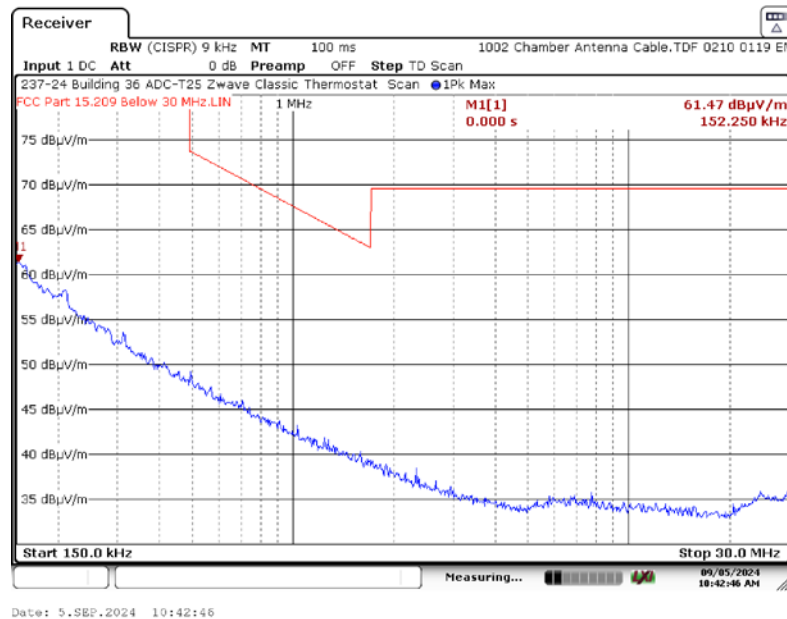


Appendix B (continued)

**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

B.2. Spurious Radiated Emissions (150 kHz to 30 MHz), Fundamental = 916.0 MHz

B.2.9. Measurement Results – Ground Parallel Antenna – Z Axis

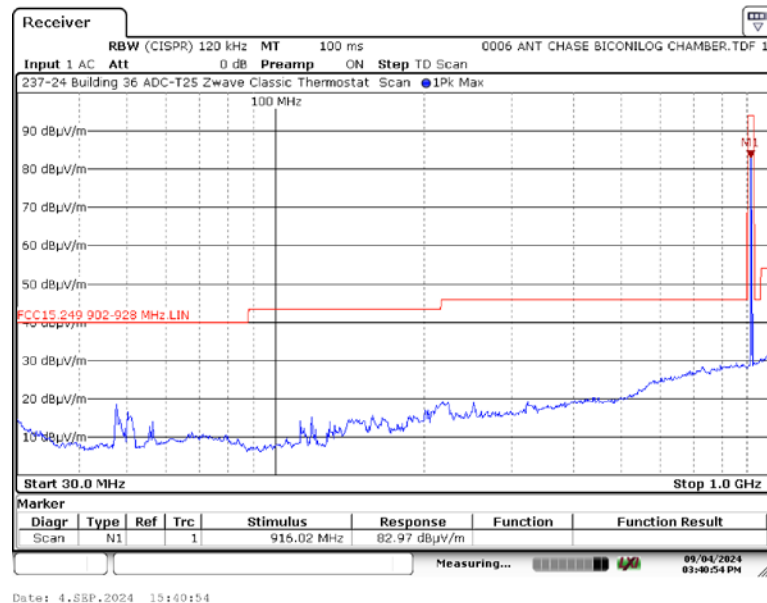


Appendix B (continued)

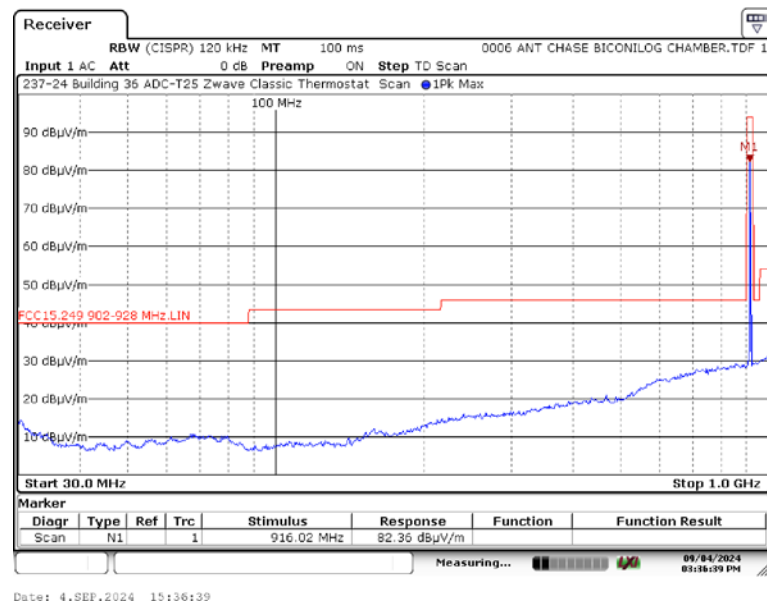
**Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)),
ISED RSS-GEN 6.13 & 8.9 (continued)**

B.3. Spurious Radiated Emissions (30 MHz to 1 GHz), Fundamental = 916.0 MHz

B.3.1. Measurement Results – Horizontal Antenna – X Axis



B.3.2. Measurement Results – Vertical Antenna

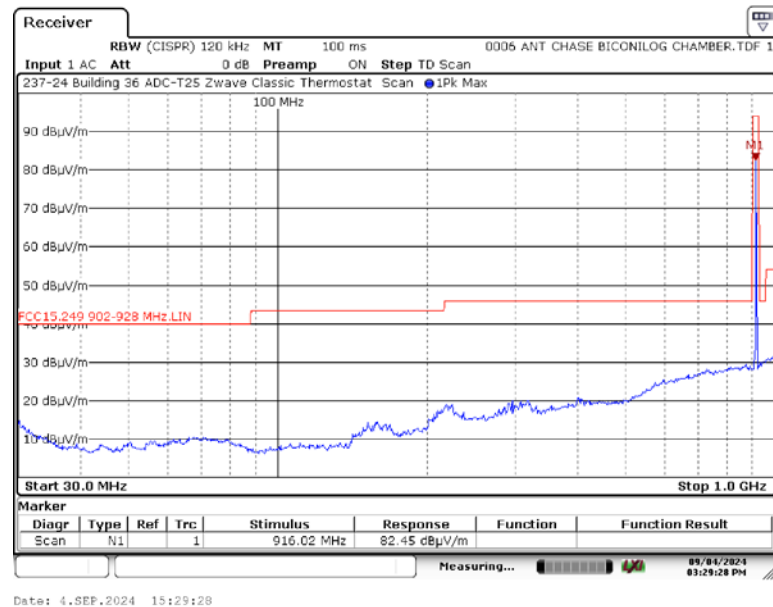


Appendix B (continued)

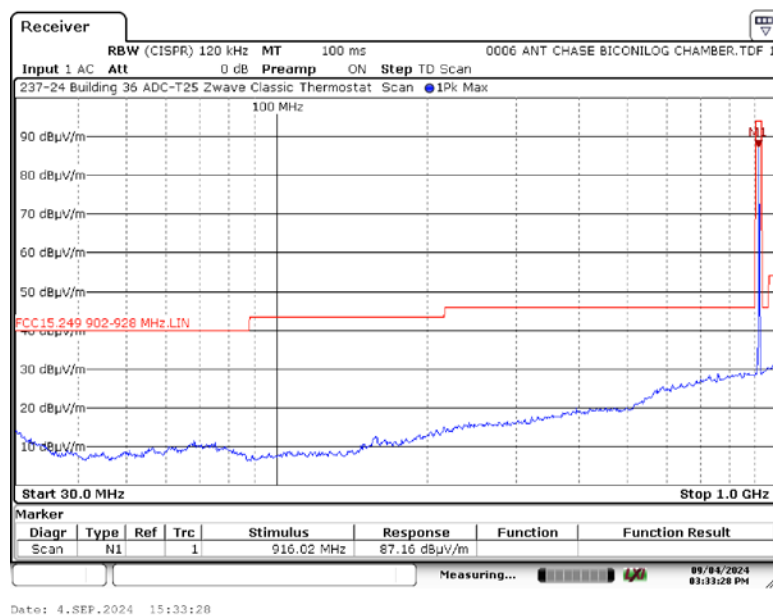
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.3. Spurious Radiated Emissions (30 MHz to 1 GHz), Fundamental = 916.0 MHz

B.3.3. Measurement Results – Horizontal Antenna – Y Axis



B.3.4. Measurement Results – Vertical Antenna

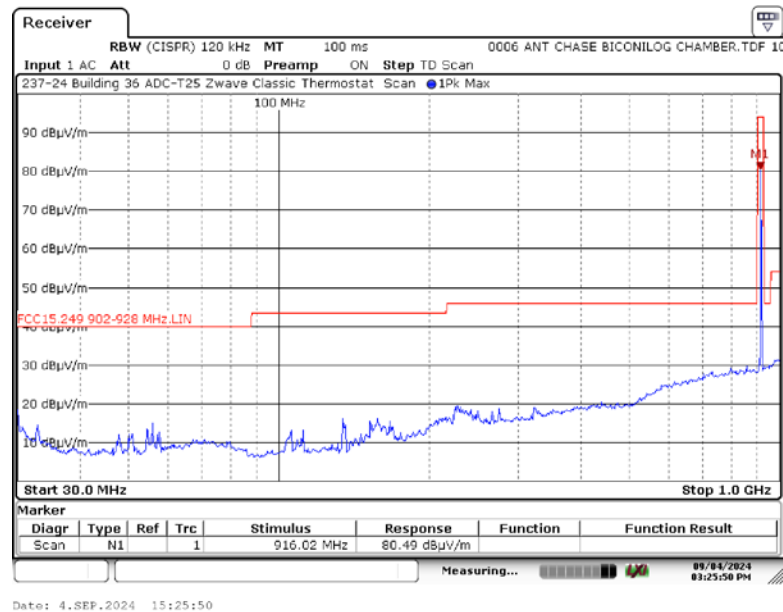


Appendix B (continued)

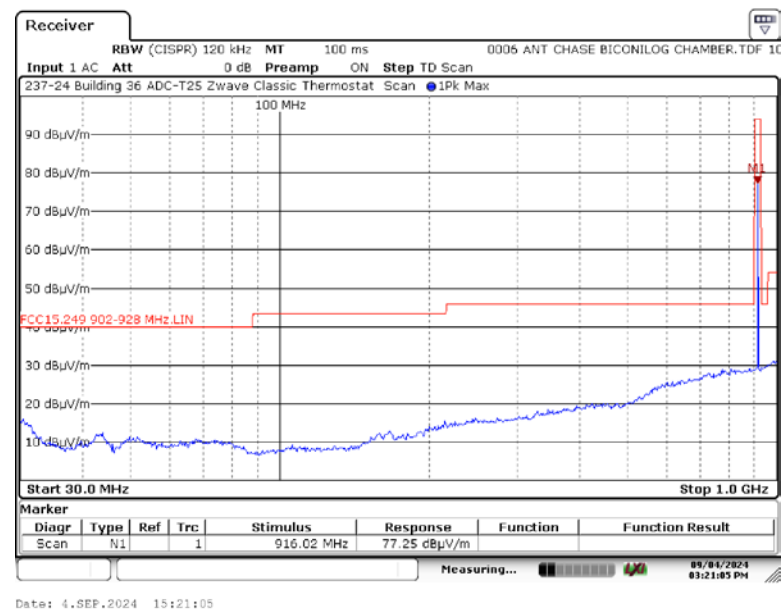
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.3. Spurious Radiated Emissions (30 MHz to 1 GHz), Fundamental = 916.0 MHz

B.3.5. Measurement Results – Horizontal Antenna – Z Axis



B.3.6. Measurement Results – Vertical Antenna

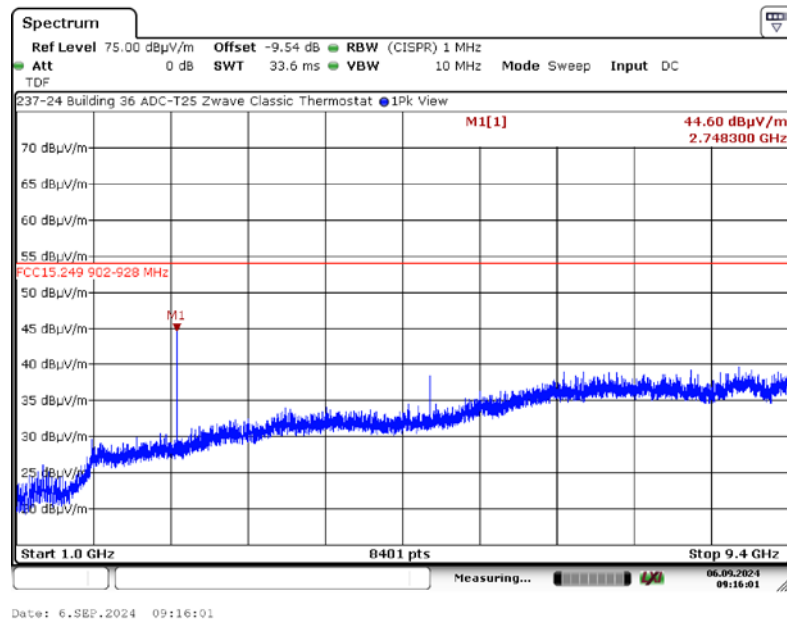


Appendix B (continued)

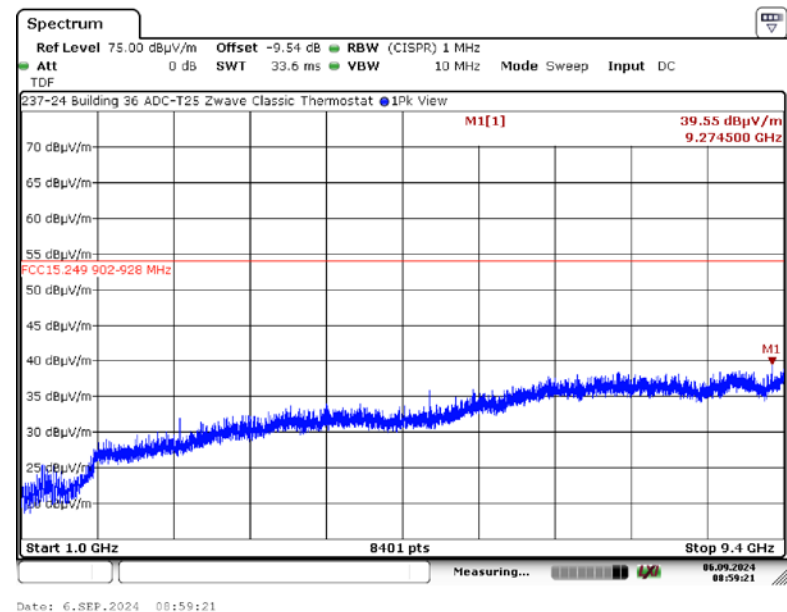
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.4. Spurious Radiated Emissions (1 GHz to 9.4 GHz), Fundamental = 916.0 MHz

B.4.1. Measurement Results – Horizontal Antenna – X Axis



B4.2. Measurement Results – Vertical Antenna

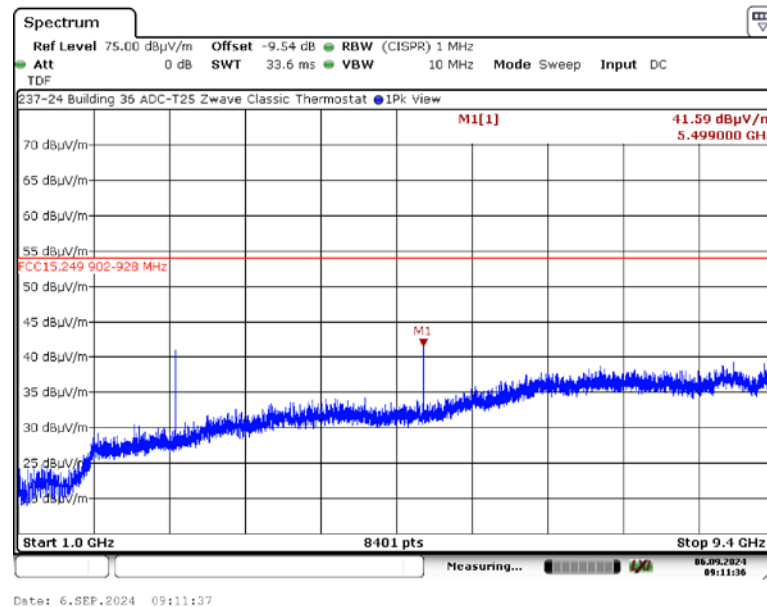


Appendix B (continued)

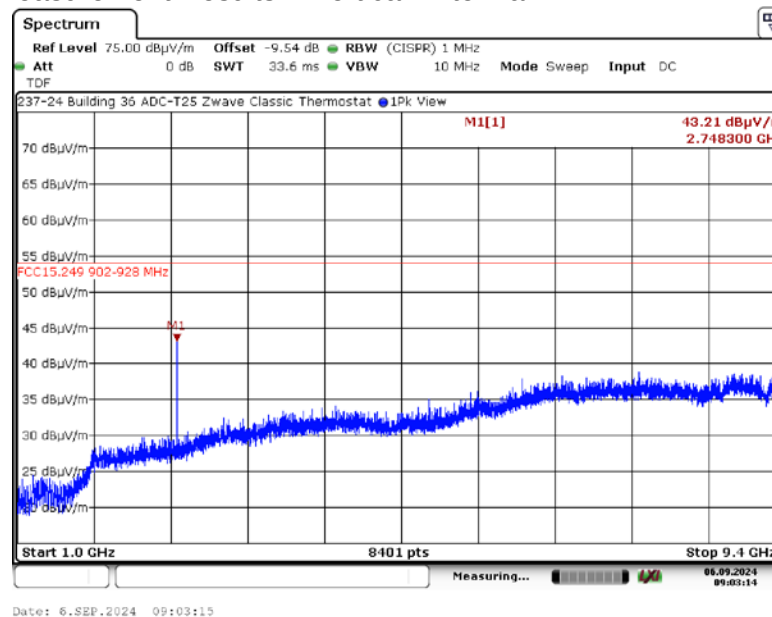
Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.4. Spurious Radiated Emissions (1 GHz to 9.4 GHz), Fundamental = 916.0 MHz

B.4.3. Measurement Results – Horizontal Antenna – Y Axis



B4.4. Measurement Results – Vertical Antenna

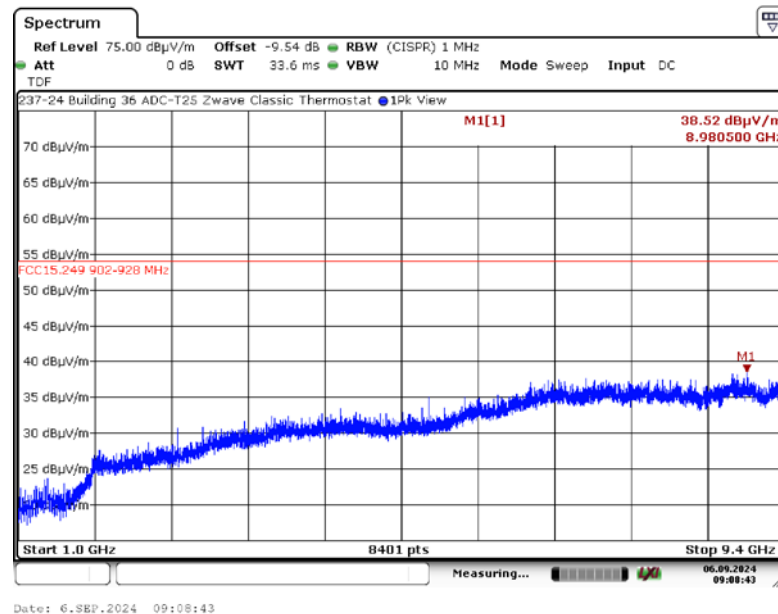


Appendix B (continued)

Spurious Radiated Emissions, 9 kHz to EUT 10th Harmonic (15.249, Section (d)), ISED RSS-GEN 6.13 & 8.9 (continued)

B.4. Spurious Radiated Emissions (1 GHz to 9.4 GHz), Fundamental = 916.0 MHz

B.4.5. Measurement Results – Horizontal Antenna – Z Axis



B4.6. Measurement Results – Vertical Antenna

