WaveLynx Technologies Corporation

REVISED TEST REPORT TO 111609-47A

RFID Access Control Reader, APEX
Model: AX-25*

*(See Appendix A for Manufacturers Declaration)

Tested to The Following Standards:

FCC Part 15 Subpart C Section(s)

15.207 & 15.209

Report No.: 111609-47B

Date of issue: November 24, 2025

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

Test Certificate # 803.01

This report contains a total of 58 pages and may be reproduced in full only. Partial reproduction may only be done with the written consent of CKC Laboratories, Inc.

Testing the Future
CKC LABORATORIES, INC.

TABLE OF CONTENTS

Administrative Information 3

Test Report Information 3

Report Authorization 3

Revision History 3

Test Facility Information 4

Software Versions 4

Site Registration & Accreditation Information 4

Summary of Results 5

Standard / Specification: FCC Part 15 Subpart C - 15.209 5

Modifications During Testing 5

Conditions During Testing 5

Equipment Under Test (EUT) 6

General Product Information: 7

FCC Part 15 Subpart C 10

15.215(c) Occupied Bandwidth (20dB BW) 10

15.209 Field Strength of Fundamental 14

15.209 Radiated Emissions 19

15.207 AC Conducted Emissions 49

Appendix A: Manufacturer Declaration 56

Supplemental Information 57

Measurement Uncertainty 57

Emissions Test Details 57

Administrative Information

Test Report Information

REPORT PREPARED FOR:

WaveLynx Technologies Corporation
100 Technology Drive, Suite B130.
Broomfield, CO 80021

Representative: Daniel Field
Customer Reference Number: PO575

REPORT PREPARED BY:

Viviana Prado
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 111609

DATE OF EQUIPMENT RECEIPT: July 20, 2025
DATE(S) OF TESTING: July 22, 30, and 31, 2025, August 1, 20, 21, and 22, 2025, and September 2, 2025

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the equipment provided by the client, tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.

Revision History

Original: Testing of the RFID Access Control Reader, APEX, Model: AX-25 to FCC Part 15 Subpart C Section(s) 15.207 & 15.209.
Revision A: To add a statement under Modifications During Testing.
Revision B: To update and include modification statement, and to update dates and Radiated Spurious Emissions, and AC Conducted Emissions data.

Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information

Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
1120 Fulton Place
Fremont, CA 94539

Software Versions

CKC Laboratories Proprietary Software	Version
EMITest Emissions	5.03.20

Site Registration & Accreditation Information

Location	*NIST CB #	FCC	Canada	Japan
Canyon Park, Bothell, WA	US0103	US1024	3082C	A-0136
Brea, CA	US0103	US1024	3082D	A-0136
Fremont, CA	US0103	US1024	3082B	A-0136
Mariposa, CA	US0103	US1024	3082A	A-0136

*CKC's list of NIST designated countries can be found at: https://standards.gov/cabs/designations.html

Summary of Results

Standard / Specification: FCC Part 15 Subpart C - 15.209

Test Procedure	Description	Modifications	Results
15.215(c)	Occupied Bandwidth	NA	Pass
15.209	Field Strength of Fundamental	Mod. #1	Pass
15.209	Field Strength of Spurious Emissions	Mod. #1	Pass
15.207	AC Conducted Emissions	NA	Pass

NA = Not Applicable

ISO/IEC 17025 Decision Rule
The equipment sample utilized for testing is selected by the manufacturer. The declaration of pass or fail herein is a binary statement for simple acceptance rule (ILAC G8) based upon assessment to the specification(s) listed above, without consideration of measurement uncertainties. For performance related tests, equipment was monitored for specified criteria identified in that section of testing.

Modifications During Testing

This list is a summary of the modifications made to the equipment during testing.

Summary of Conditions
Modification #1 (9/25/2025): Layer of copper tape added to the AX-25 circuit boards. NOTE: Testing was not performed with noted modifications. Modification represents final manufacturing configuration. All testing was performed on an unmodified unit, then the modification was applied, and transmitter frequencies were spot checked to verify equivalency with pre-modification measurements. Fundamental power and spurious emissions were found to be within 3dB.

Modifications listed above must be incorporated into all production units.

Conditions During Testing

This list is a summary of the conditions noted to the equipment during testing.

Summary of Conditions
None

Equipment Under Test (EUT)

During testing, numerous configurations may have been utilized. The configurations listed below support compliance to the standard(s) listed in the Summary of Results section.

Configuration 1

Equipment Tested:

Device	Manufacturer	Model #	S/N
RFID Access Control Reader, APEX	WaveLynx Technologies Corporation	AX-25	AXR-1U-C-1-5D

Support Equipment:

Device	Manufacturer	Model #	S/N
Digital Power Supply	Korad	KA 3005D	202011032416

General Product Information:

Description of EUT
RFID Access Control Reader

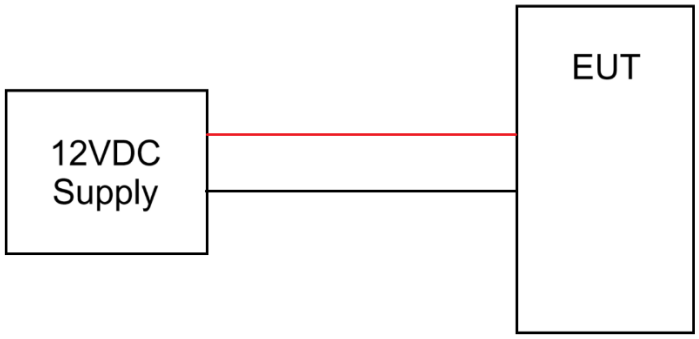
Product Information	Manufacturer-Provided Details
Operating Frequencies Tested:	125kHz
Equipment Type:	Stand-Alone Equipment
Maximum Duty Cycle:	EUT is placed into a testing mode with 100% transmission
Modulation Type(s):	125 kHz: Continuous Wave
Antenna Type(s):	125kHz: PCB Trace Antenna with 42 turns,2.2" x 4.1" x 0.62", Inductance 385 uH
Antenna Connection Type:	Integral
Nominal Input Voltage:	12VDC
Firmware / Software Version(s):	5.1.8
Firmware / Software Description:	Standard APEX Firmware
Firmware / Software Setting(s):	N/A
Tune-up or Adjustment(s):	N/A
The validity of results is dependent on the stated product details, the accuracy of which the manufacturer assumes full responsibility.	

EUT and Accessory Photo(s)

AX-25

Block Diagram of Test Setup(s)

Config#	Description of Block Diagram
1/3	EUT is powered by a 12VDC supply. Tested standalone



FCC Part 15 Subpart C

15.215(c) Occupied Bandwidth (20dB BW)

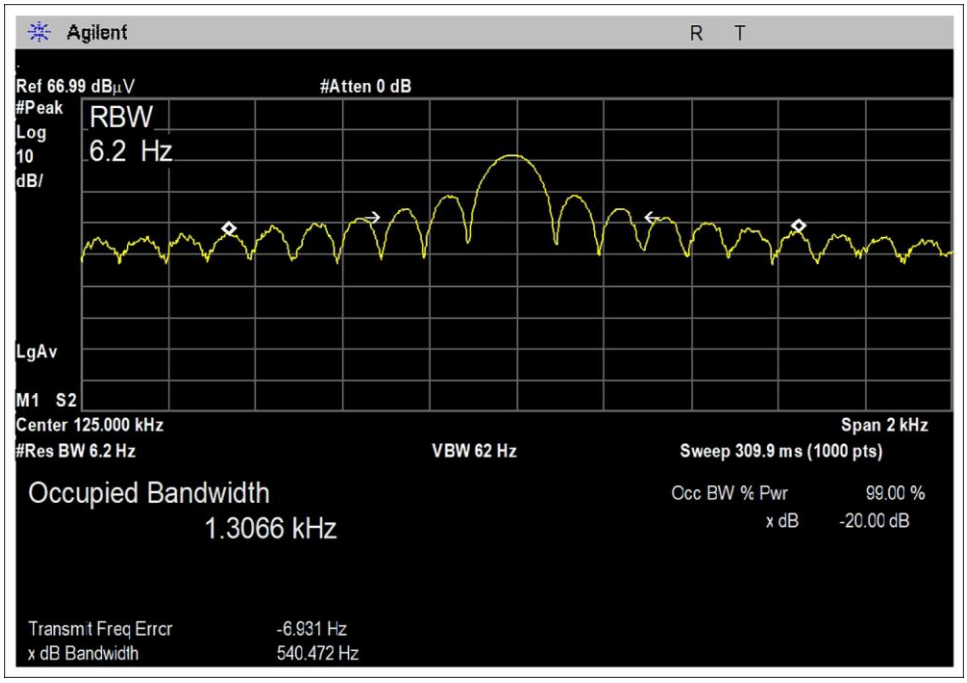
Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020)	Test Date(s):	8/20/2025
Configuration:	1		
Test Setup:	Radiated Measurement Emission profile of the EUT rotated along three orthogonal axis was investigated. Recorded data represent worse case emission.		

Environmental Conditions			
Temperature (ºC)	22.9	Relative Humidity (%):	44

Test Equipment					
Asset#	**Description**	**Manufacturer**	**Model**	**Cal Date**	**Cal Due**
02660	Spectrum Analyzer	Agilent	E4446A	1/7/2025	1/7/2027
00314	Loop Antenna	EMCO	6502	5/3/2024	5/3/2026

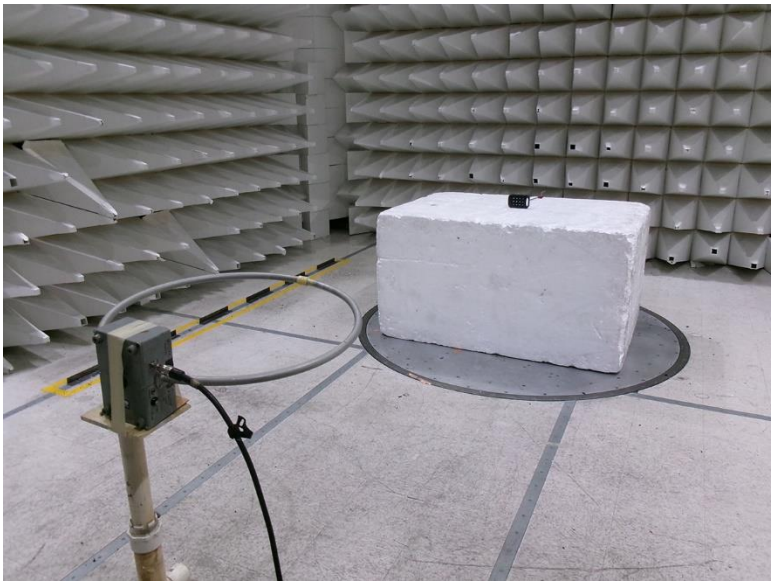
Test Data Summary					
Frequency (MHz)	**Antenna Port**	**Modulation**	**Measured (kHz)**	**Limit (kHz)**	**Results**
0.125	1	CW	0.540	None	NA

Plot(s)

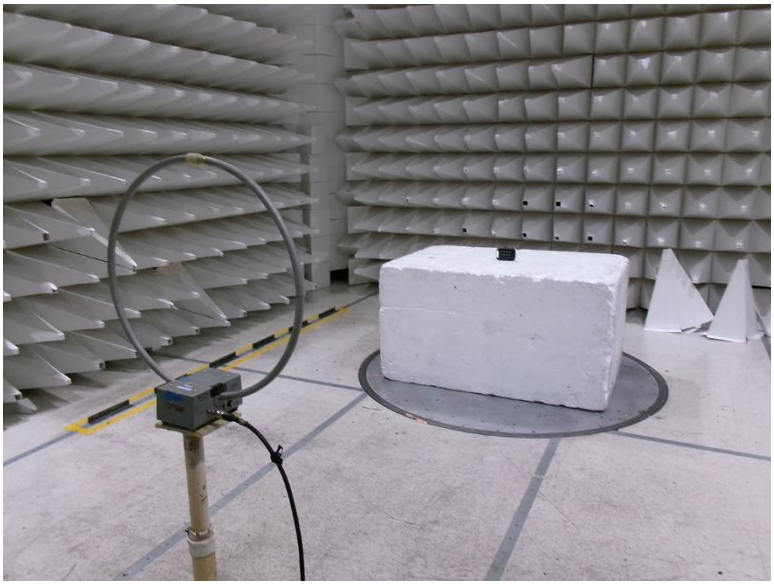


125kHz

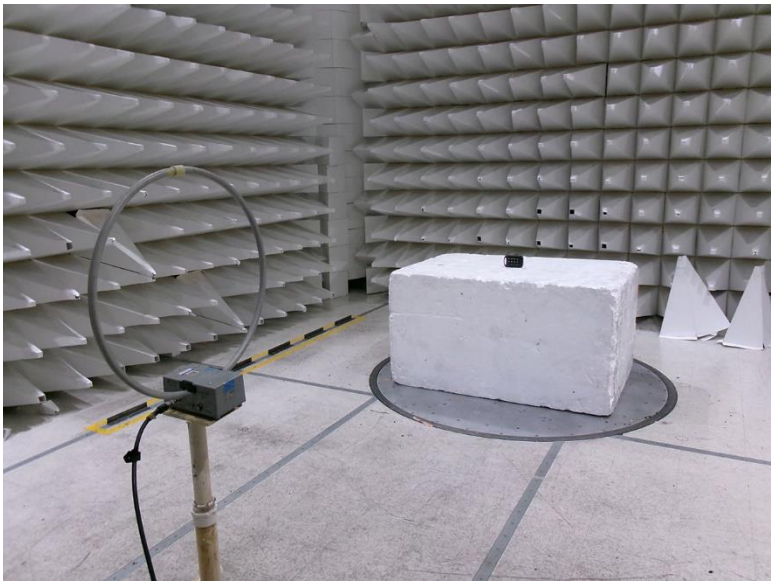
Test Setup Photo(s)



Ground Facing C1



Parallel C1



Perpendicular C1

15.209 Field Strength of Fundamental

Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020)	Test Date(s):	8/20/2025 and 9/2/2025
Configuration:	1		
Test Setup:	Radiated Emissions Emission profile of the EUT rotated along three orthogonal axis was investigated. Recorded data represent worse case emission. **Modification #1 was in place during testing.**		

Environmental Conditions			
Temperature (ºC)	22.9	Relative Humidity (%):	44

Test Data Summary - Voltage Variations					
Frequency (MHz)	**Modulation / Ant Port**	**$V_{Minimum}$ (dBuV/m)**	**$V_{Nominal}$ (dBuV/m)**	**$V_{Maximum}$ (dBuV/m)**	**Max Deviation from $V_{Nominal}$ (dB)**
0.125	CW / Integral	-23.51	-20.9	-20.9	2.61

Test performed using operational mode with the highest output power, representing worst case.

Parameter Definitions:

Measurements performed at input voltage according to manufacturer specification.

Parameter	Value
$V_{Nominal}$:	12 VDC
$V_{Minimum}$:	4.25 VDC
$V_{Maximum}$:	27.6 VDC

Test Data Summary – Radiated Field Strength Measurement					
Frequency (MHz)	**Modulation**	**Ant. Type**	**Measured (dBuV/m @ 300m)**	**Limit (dBuV/m @ 300m)**	**Results**
0.125	CW	Integral	-20.9	≤25.7	Pass

Test Setup / Conditions / Data

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	**WaveLynx Technologies Corporation**		
Specification:	**15.209 Radiated Emissions**		
Work Order #:	**111609**	Date:	9/2/2025
Test Type:	**Radiated Scan**	Time:	11:57:41
Tested By:	Jonathan Wharton	Sequence#:	42
Software:	EMITest 5.03.20		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Fundamental Emission
Frequency Range: 125kHz
Method: ANSI C63.10

Test Environment Conditions:
Temperature: 22.9°C
Humidity: 44%
Pressure: 101.7kPa

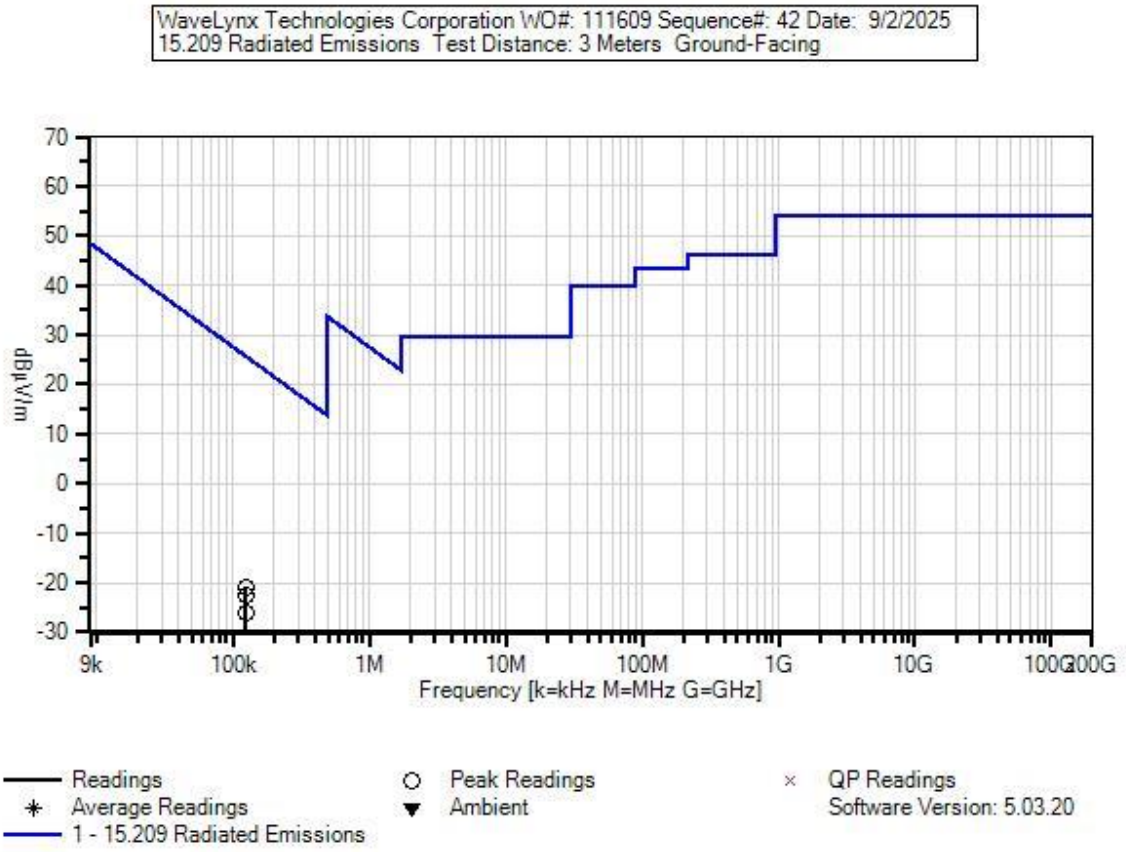
Highest generated frequency: 2480MHz

The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational

Note
EUT Set to transmit at 125kHz

RBW=VBW=200Hz from 9kHz to 150kHz
RBW=VBW=9kHz from 150kHz to 30MHz

Modification #1 was in place during testing.



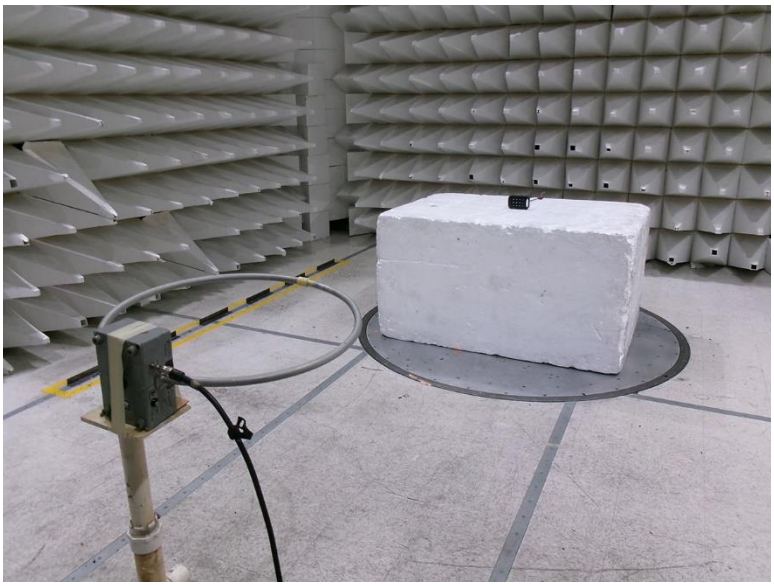
Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	AN00314	Loop Antenna	6502	5/3/2024	5/3/2026

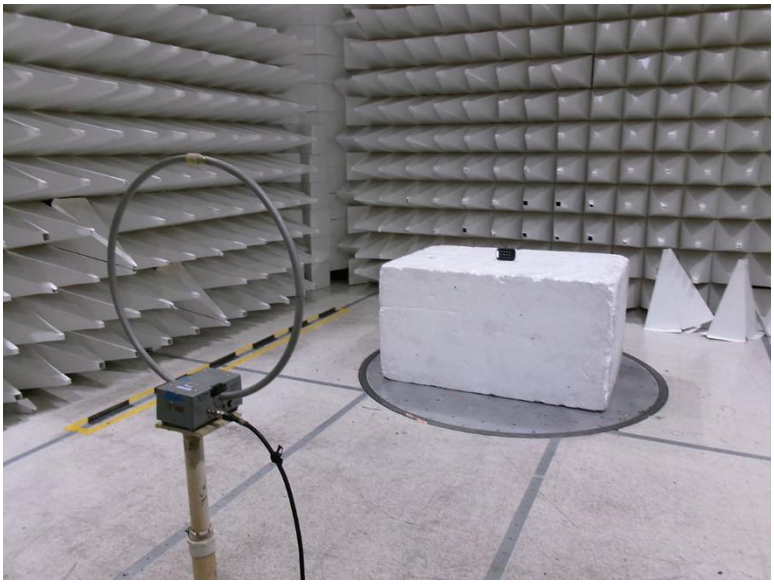
Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	125.000k	49.4	+0.0	+0.0	+9.8		-80.0	-20.9	25.7	-46.6	Paral
2	125.000k	47.6	+0.0	+0.0	+9.8		-80.0	-22.6	25.7	-48.3	Perpe
3	125.000k	44.3	+0.0	+0.0	+9.8		-80.0	-25.9	25.7	-51.6	Groun

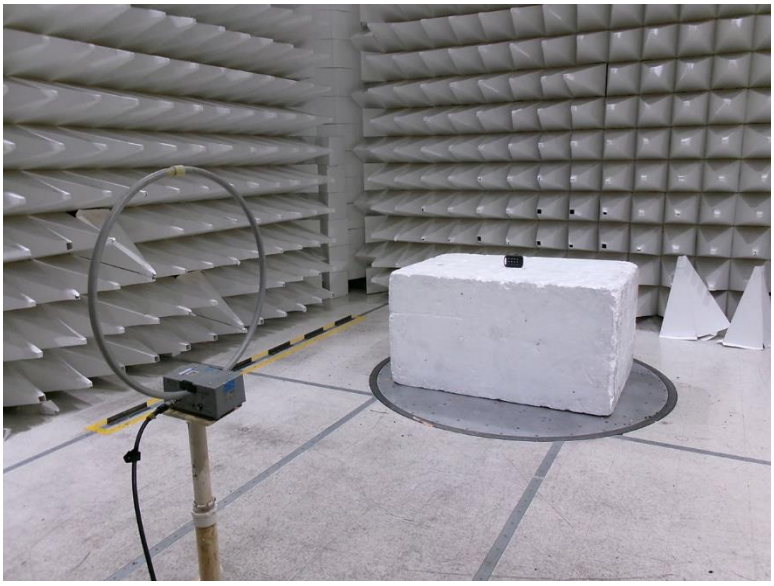
Test Setup Photo(s)



Ground Facing C1



Parallel C1



Perpendicular C1

15.209 Radiated Emissions

Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Jonathan Wharton
Test Method:	ANSI C63.10 (2020)	Test Date(s):	7/30/2025, 8/1/2025, and 8/20-22/2025
Configuration:	1		
Test Setup:	**Modification #1 was in place during testing.**		

Environmental Conditions			
Temperature (ºC)	22.9	Relative Humidity (%):	44

Test Setup / Conditions / Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
Customer: **WaveLynx Technologies Corporation**
Specification: **15.209 Radiated Emissions**
Work Order #: **111609** Date: 8/21/2025
Test Type: **Radiated Scan** Time: 10:41:27
Tested By: Jonathan Wharton Sequence#: 41
Software: EMITest 5.03.20

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Radiated Spurious Emissions
Frequency Range: 9kHz-30MHz
Method: ANSI C63.10

Test Environment Conditions:
Temperature: 22.9°C
Humidity: 44%
Pressure: 101.7kPa

Highest generated frequency: 2480MHz

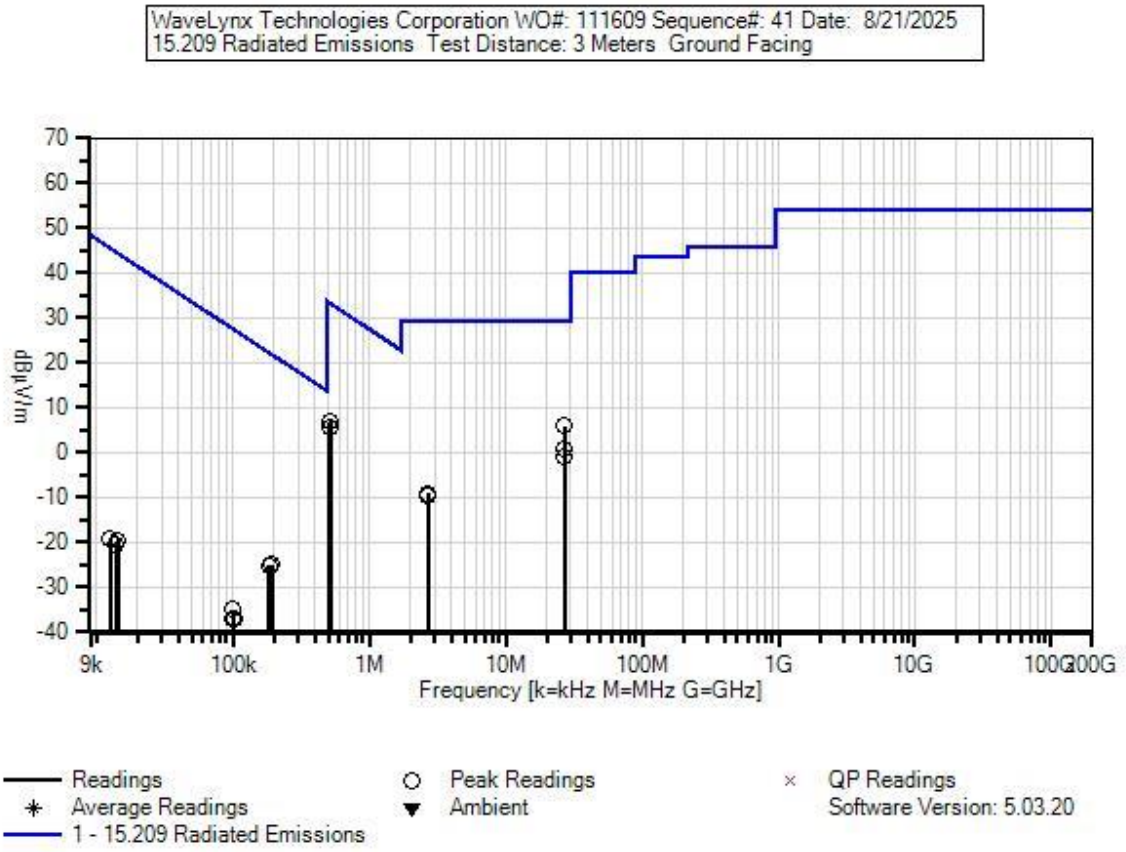
The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational

Note
EUT does not have access to a receive only mode, EUT in normal operation.

Highest generated frequency of 2480MHz created by BLE intentional radiator.

Emission profile of the EUT rotated along three orthogonal axis was investigated. Recorded data represent worse case emission.

Modification #1 was in place during testing.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	AN00314	Loop Antenna	6502	5/3/2024	5/3/2026

Measurement Data: Reading listed by frequency. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	12.545k	44.5	+0.0	+0.0	+16.2		-80.0	-19.3	45.6	-64.9	Perpe
2	14.000k	44.4	+0.0	+0.0	+15.4		-80.0	-20.2	44.7	-64.9	Paral
3	14.370k	45.3	+0.0	+0.0	+15.2		-80.0	-19.5	44.4	-63.9	Groun
4	99.470k	35.3	+0.0	+0.0	+9.9		-80.0	-34.8	27.6	-62.4	Paral
5	100.220k	32.9	+0.0	+0.0	+9.9		-80.0	-37.2	27.6	-64.8	Perpe
6	101.970k	33.3	+0.0	+0.0	+9.9		-80.0	-36.8	27.4	-64.2	Groun
7	185.360k	45.2	+0.0	+0.0	+9.7		-80.0	-25.1	22.2	-47.3	Groun
8	186.100k	45.3	+0.0	+0.0	+9.7		-80.0	-25.0	22.2	-47.2	Paral
9	192.460k	45.3	+0.0	+0.0	+9.7		-80.0	-25.0	21.9	-46.9	Perpe
10	513.782k	35.8	+0.0	+0.1	+9.7		-40.0	5.6	33.4	-27.8	Perpe
11	514.860k	37.0	+0.0	+0.1	+9.7		-40.0	6.8	33.4	-26.6	Groun
12	519.720k	37.2	+0.0	+0.1	+9.7		-40.0	7.0	33.3	-26.3	Paral
13	2.691M	21.1	+0.0	+0.2	+9.7		-40.0	-9.0	29.5	-38.5	Paral
14	2.696M	20.4	+0.0	+0.2	+9.7		-40.0	-9.7	29.5	-39.2	Groun
15	2.700M	20.9	+0.0	+0.2	+9.7		-40.0	-9.2	29.5	-38.7	Perpe
16	27.121M	39.4	+0.2	+0.6	+5.9		-40.0	6.1	29.5	-23.4	Groun
17	27.121M	34.3	+0.2	+0.6	+5.9		-40.0	1.0	29.5	-28.5	Paral
18	27.124M	32.3	+0.2	+0.6	+5.9		-40.0	-1.0	29.5	-30.5	Perpe

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	**WaveLynx Technologies Corporation**		
Specification:	**15.209 Radiated Emissions**		
Work Order #:	**111609**	Date:	8/22/2025
Test Type:	**Radiated Scan**	Time:	11:39:58
Tested By:	Jonathan Wharton	Sequence#:	49
Software:	EMITest 5.03.20		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions
Frequency Range: 30MHz to 1GHz
Method: ANSI C63.10

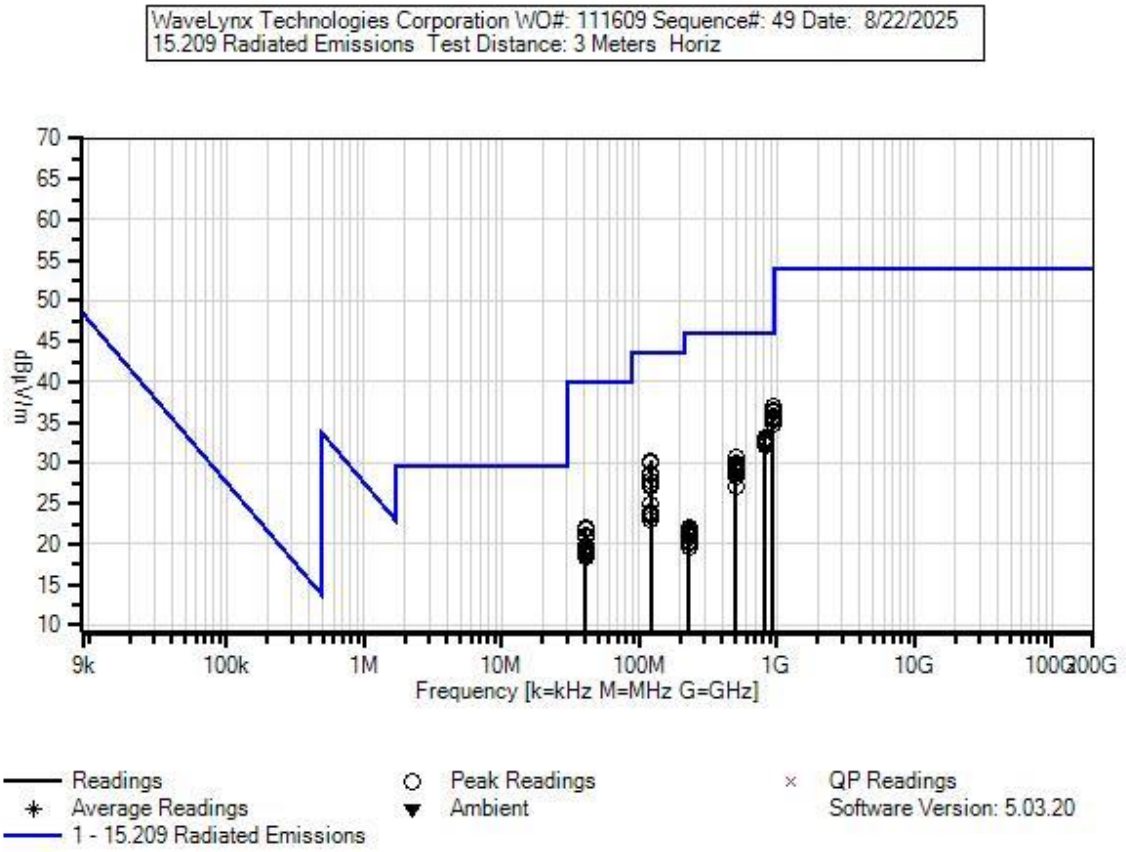
Test Environment Conditions:
Temperature: 22.7°C
Humidity: 45%
Pressure: 101.6kPa

Highest generated frequency: 2480MHz

The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational

Note
Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz

Modification #1 was in place during testing.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN01995	Biconilog Antenna	CBL6111C	5/16/2024	5/16/2026
T2	ANP00987	Cable		1/12/2024	1/12/2026
T3	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T4	ANP07508	Preamp	310N	4/5/2024	4/5/2026
T5	ANP01187	Cable	CNT-195	7/3/2024	7/3/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	938.339M	30.6	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.9	46.0 13.56MHz Transmitter	-9.1	Horiz
2	938.176M	30.2	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.5	46.0 BLE High Channel (2MHz)	-9.5	Horiz
3	938.207M	30.0	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	36.3	46.0 BLE High Channel (1MHz)	-9.7	Vert
4	938.348M	29.5	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.8	46.0 BLE Low Channel (2MHz)	-10.2	Horiz
5	938.265M	29.5	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.8	46.0 BLE Mid Channel (1MHz)	-10.2	Vert
6	938.159M	29.5	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.7	46.0 BLE High Channel (2MHz)	-10.3	Vert
7	938.236M	29.3	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.6	46.0 BLE Low Channel (1MHz)	-10.4	Horiz
8	938.302M	29.2	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.5	46.0 125kHz Transmitter	-10.5	Horiz
9	938.141M	29.2	+30.4 +1.0	+4.6	+1.3	-31.1	+0.0	35.4	46.0 BLE Mid Channel (2MHz)	-10.6	Vert
10	938.195M	29.1	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.4	46.0 BLE High Channel (1MHz)	-10.6	Horiz
11	938.213M	29.1	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.4	46.0 125kHz Transmitter	-10.6	Vert
12	938.325M	29.0	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.3	46.0 BLE Low Channel (2MHz)	-10.7	Vert
13	938.191M	28.9	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.2	46.0 BLE Low Channel (1MHz)	-10.8	Vert
14	938.352M	28.9	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	35.2	46.0 13.56MHz Transmitter	-10.8	Vert
15	938.308M	28.6	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	34.9	46.0 BLE Mid Channel (1MHz)	-11.1	Horiz
16	938.199M	28.5	+30.5 +1.0	+4.6	+1.3	-31.1	+0.0	34.8	46.0 BLE Mid Channel (2MHz)	-11.2	Horiz

17	823.758M	30.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.2	46.0	-12.8	Horiz BLE Low Channel (1MHz)
18	823.858M	30.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.2	46.0	-12.8	Vert BLE High Channel (1MHz)
19	823.730M	30.2	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.1	46.0	-12.9	Horiz BLE Low Channel (2MHz)
20	823.861M	30.2	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.1	46.0	-12.9	Vert 13.56MHz Transmitter
21	823.840M	30.1	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.0	46.0	-13.0	Horiz 125kHz Transmitter
22	823.693M	30.1	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.0	46.0	-13.0	Vert BLE High Channel (2MHz)
23	823.622M	30.1	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	33.0	46.0	-13.0	Horiz BLE High Channel (2MHz)
24	823.953M	30.0	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.9	46.0	-13.1	Horiz 13.56MHz Transmitter
25	823.810M	30.0	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.9	46.0	-13.1	Horiz BLE High Channel (1MHz)
26	122.010M	42.4	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	30.3	43.5	-13.2	Vert 13.56MHz Transmitter
27	823.745M	29.9	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.8	46.0	-13.2	Vert BLE Low Channel (2MHz)
28	121.998M	42.3	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	30.2	43.5	-13.3	Vert 125kHz Transmitter
29	823.849M	29.8	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.7	46.0	-13.3	Vert 125kHz Transmitter
30	823.669M	29.7	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.6	46.0	-13.4	Horiz BLE Mid Channel (1MHz)
31	122.070M	42.1	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	30.0	43.5	-13.5	Horiz 125kHz Transmitter
32	823.753M	29.6	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.5	46.0	-13.5	Horiz BLE Mid Channel (2MHz)
33	823.682M	29.4	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.3	46.0	-13.7	Vert BLE Low Channel (1MHz)
34	823.769M	29.4	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.3	46.0	-13.7	Vert BLE Mid Channel (2MHz)

35	823.608M	29.3	+28.4 +0.9	+4.3	+1.2	-31.9	+0.0	32.2	46.0	-13.8	Vert BLE Mid Channel (1MHz)
36	122.067M	40.8	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	28.7	43.5	-14.8	Vert BLE Low Channel (2MHz)
37	122.057M	40.6	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	28.5	43.5	-15.0	Vert BLE Low Channel (1MHz)
38	500.342M	33.8	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.7	46.0	-15.3	Horiz 13.56MHz Transmitter
39	121.997M	40.0	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	27.9	43.5	-15.6	Vert BLE Mid Channel (2MHz)
40	122.031M	40.0	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	27.9	43.5	-15.6	Vert BLE Mid Channel (1MHz)
41	500.352M	33.1	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.0	46.0	-16.0	Horiz BLE Mid Channel (2MHz)
42	500.349M	33.1	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	30.0	46.0	-16.0	Horiz 125kHz Transmitter
43	122.018M	39.5	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	27.4	43.5	-16.1	Vert BLE High Channel (2MHz)
44	500.310M	32.9	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.8	46.0	-16.2	Horiz BLE High Channel (2MHz)
45	122.032M	39.3	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	27.2	43.5	-16.3	Vert BLE High Channel (1MHz)
46	500.321M	32.7	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.6	46.0	-16.4	Horiz BLE Low Channel (1MHz)
47	500.315M	32.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.2	46.0	-16.8	Horiz BLE High Channel (1MHz)
48	500.310M	32.2	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	29.1	46.0	-16.9	Vert BLE High Channel (1MHz)
49	500.296M	31.8	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.7	46.0	-17.3	Horiz BLE Low Channel (2MHz)
50	500.280M	31.5	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.4	46.0	-17.6	Vert BLE Low Channel (2MHz)
51	500.347M	31.5	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.4	46.0	-17.6	Vert 125kHz Transmitter
52	500.330M	31.5	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.4	46.0	-17.6	Vert BLE Low Channel (1MHz)

53	500.316M	31.4	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.3	46.0 BLE Mid Channel (1MHz)	-17.7	Vert
54	500.298M	31.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.2	46.0 BLE High Channel (2MHz)	-17.8	Vert
55	500.308M	31.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.2	46.0 13.56MHz Transmitter	-17.8	Vert
56	500.318M	31.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	28.2	46.0 BLE Mid Channel (1MHz)	-17.8	Horiz
57	40.689M	34.1	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	22.1	40.0 BLE Low Channel (1MHz)	-17.9	Horiz
58	40.672M	33.8	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	21.8	40.0 13.56MHz Transmitter	-18.2	Horiz
59	40.681M	33.7	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	21.7	40.0 BLE Mid Channel (1MHz)	-18.3	Horiz
60	122.019M	36.9	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	24.8	43.5 BLE Mid Channel (1MHz)	-18.7	Horiz
61	500.315M	30.3	+24.2 +0.7	+3.2	+0.8	-32.0	+0.0	27.2	46.0 BLE Mid Channel (2MHz)	-18.8	Vert
62	40.673M	33.1	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	21.1	40.0 BLE High Channel (1MHz)	-18.9	Horiz
63	40.669M	32.8	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	20.8	40.0 BLE Mid Channel (2MHz)	-19.2	Horiz
64	40.689M	32.7	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	20.7	40.0 BLE Low Channel (2MHz)	-19.3	Horiz
65	121.999M	36.1	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	24.0	43.5 BLE Mid Channel (2MHz)	-19.5	Horiz
66	121.985M	36.1	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	24.0	43.5 BLE High Channel (1MHz)	-19.5	Horiz
67	121.997M	35.8	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	23.7	43.5 BLE High Channel (2MHz)	-19.8	Horiz
68	122.050M	35.6	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	23.5	43.5 BLE Low Channel (2MHz)	-20.0	Horiz
69	40.649M	31.9	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.9	40.0 BLE High Channel (2MHz)	-20.1	Horiz

70	40.660M	31.7	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.7	40.0 125kHz Transmitter	-20.3	Horiz
71	122.050M	35.2	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	23.1	43.5 13.56MHz Transmitter	-20.4	Horiz
72	40.693M	31.4	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.4	40.0 125kHz Transmitter	-20.6	Vert
73	122.015M	35.0	+17.8 +0.3	+1.4	+0.4	-32.0	+0.0	22.9	43.5 BLE Low Channel (1MHz)	-20.6	Horiz
74	40.683M	31.1	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.1	40.0 BLE Low Channel (1MHz)	-20.9	Vert
75	40.691M	31.0	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	19.0	40.0 13.56MHz Transmitter	-21.0	Vert
76	40.660M	30.6	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.6	40.0 BLE Mid Channel (2MHz)	-21.4	Vert
77	40.677M	30.6	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.6	40.0 BLE High Channel (2MHz)	-21.4	Vert
78	40.681M	30.5	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.5	40.0 BLE Low Channel (2MHz)	-21.5	Vert
79	40.648M	30.4	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.4	40.0 BLE Mid Channel (1MHz)	-21.6	Vert
80	40.677M	30.3	+19.0 +0.2	+0.7	+0.2	-32.1	+0.0	18.3	40.0 BLE High Channel (1MHz)	-21.7	Vert
81	230.548M	34.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.9	46.0 BLE High Channel (1MHz)	-24.1	Horiz
82	230.528M	34.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.9	46.0 13.56MHz Transmitter	-24.1	Horiz
83	230.617M	34.5	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.8	46.0 BLE High Channel (2MHz)	-24.2	Horiz
84	230.449M	34.3	+16.3 +0.4	+2.0	+0.5	-32.0	+0.0	21.5	46.0 BLE Mid Channel (1MHz)	-24.5	Horiz
85	230.545M	34.1	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.4	46.0 125kHz Transmitter	-24.6	Horiz
86	230.503M	33.9	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	21.2	46.0 BLE Low Channel (2MHz)	-24.8	Horiz
87	230.490M	33.8	+16.3 +0.4	+2.0	+0.5	-32.0	+0.0	21.0	46.0 BLE Mid Channel (2MHz)	-25.0	Horiz

88	230.534M	33.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.9	46.0	-25.1	Vert BLE High Channel (1MHz)
89	230.515M	33.6	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.9	46.0	-25.1	Vert 13.56MHz Transmitter
90	230.519M	33.5	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.8	46.0	-25.2	Vert BLE Mid Channel (1MHz)
91	230.532M	33.4	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.7	46.0	-25.3	Vert 125kHz Transmitter
92	230.547M	33.4	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.7	46.0	-25.3	Vert BLE Low Channel (1MHz)
93	230.520M	33.1	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.4	46.0	-25.6	Vert BLE Low Channel (2MHz)
94	230.533M	32.9	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.2	46.0	-25.8	Vert BLE Mid Channel (2MHz)
95	230.503M	32.8	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	20.1	46.0	-25.9	Horiz BLE Low Channel (1MHz)
96	230.530M	32.4	+16.4 +0.4	+2.0	+0.5	-32.0	+0.0	19.7	46.0	-26.3	Vert BLE High Channel (2MHz)

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	**WaveLynx Technologies Corporation**		
Specification:	**15.209 Radiated Emissions - Average**		
Work Order #:	**111609**	Date:	7/30/2025
Test Type:	**Radiated Scan**	Time:	10:06:31
Tested By:	Jonathan Wharton	Sequence#:	17
Software:	EMITest 5.03.20		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions
Frequency Range: 1GHz to 12GHz
Method: ANSI C63.10

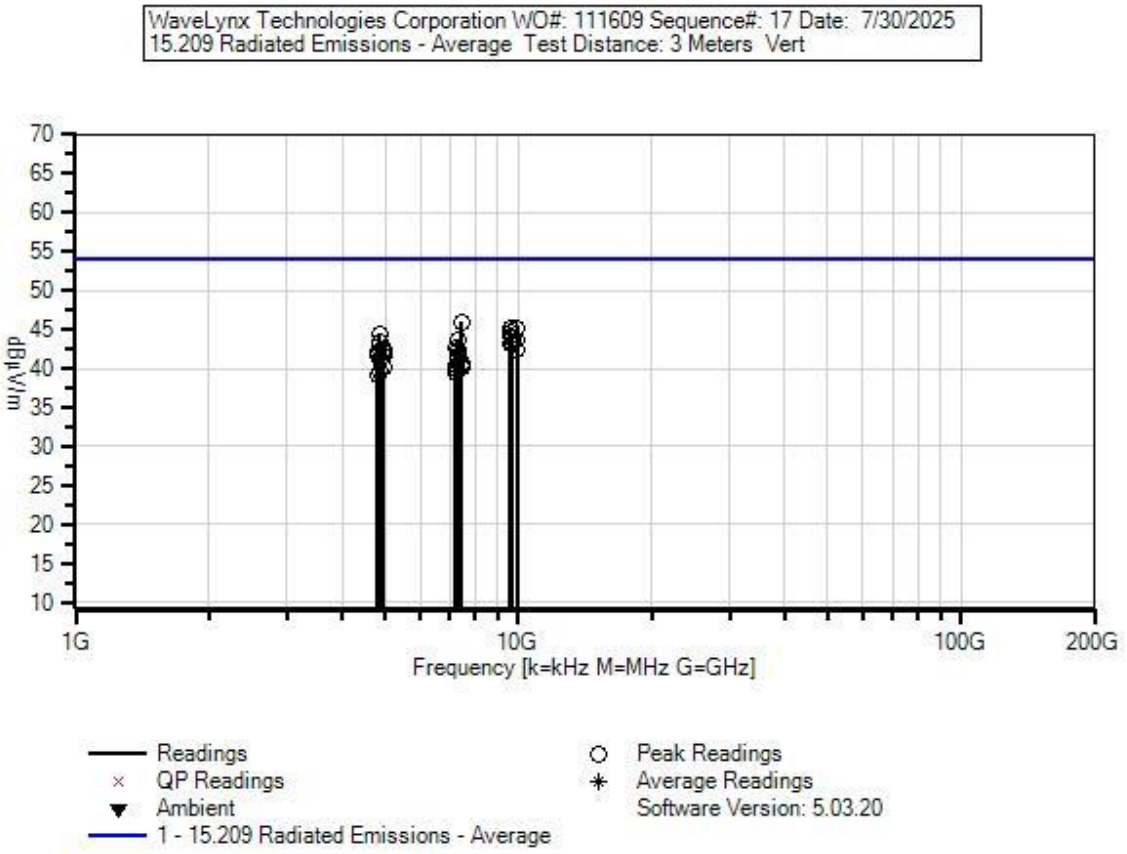
Test Environment Conditions:
Temperature: 22.7°C
Humidity: 45%
Pressure: 101.6kPa

Highest generated frequency: 2480MHz

The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational

Note
Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz

Modification #1 was in place during testing.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN02157ANSI	Horn Antenna	3115	2/12/2025	2/12/2027
T2	ANP06904	Cable	32022-29094K-29094K-36TC	1/9/2024	1/9/2026
T3	AN03309	High Pass Filter	11SH10-3000/T10000-O/O	4/28/2025	4/28/2027
T4	AN03861	Preamp	BZRY-00101800-251057-202222	2/11/2025	2/11/2027
T5	ANP01210	Cable	FSJ1P-50A-4A	1/9/2024	1/9/2026
T6	AN03302	Cable	32026-29094K-29094K-72TC	1/9/2024	1/9/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	7439.380M	63.6	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	46.0	54.0 High Channel (2MHz)	-8.0	Horiz
2	9608.000M	60.2	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	45.2	54.0 Low Channel (2MHz)	-8.8	Horiz
3	9919.920M	59.3	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	45.1	54.0 High Channel (1MHz)	-8.9	Vert
4	9608.000M	59.6	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	44.6	54.0 Low Channel (1MHz)	-9.4	Horiz
5	4852.620M	67.1	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	44.3	54.0 Mid Channel (2MHz)	-9.7	Horiz
6	9608.000M	59.1	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	44.1	54.0 Low Channel (1MHz)	-9.9	Vert
7	9704.000M	58.6	+37.7 +5.8	+1.6 +3.0	+0.4	-63.1	+0.0	44.0	54.0 Mid Channel (1MHz)	-10.0	Vert
8	7277.360M	61.9	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	43.8	54.0 Mid Channel (2MHz)	-10.2	Vert
9	9920.740M	57.8	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	43.6	54.0 High Channel (2MHz)	-10.4	Horiz
10	9919.920M	57.8	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	43.6	54.0 High Channel (1MHz)	-10.4	Horiz
11	4852.000M	66.3	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	43.5	54.0 Mid Channel (1MHz)	-10.5	Horiz
12	9704.000M	57.8	+37.7 +5.8	+1.6 +3.0	+0.4	-63.1	+0.0	43.2	54.0 Mid Channel (2MHz)	-10.8	Vert
13	9704.000M	57.8	+37.7 +5.8	+1.6 +3.0	+0.4	-63.1	+0.0	43.2	54.0 Mid Channel (1MHz)	-10.8	Horiz
14	9704.620M	57.6	+37.7 +5.8	+1.6 +3.0	+0.4	-63.1	+0.0	43.0	54.0 Mid Channel (2MHz)	-11.0	Horiz
15	9608.000M	58.0	+37.4 +5.9	+1.6 +3.0	+0.3	-63.2	+0.0	43.0	54.0 Low Channel (2MHz)	-11.0	Vert

16	7206.000M	60.9	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	42.5	54.0 Low Channel (1MHz)	-11.5	Horiz
17	9920.740M	56.6	+38.1 +5.8	+1.7 +3.0	+0.3	-63.1	+0.0	42.4	54.0 High Channel (2MHz)	-11.6	Vert
18	4960.740M	65.5	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	42.3	54.0 High Channel (2MHz)	-11.7	Vert
19	7278.620M	60.4	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	42.3	54.0 Mid Channel (2MHz)	-11.7	Horiz
20	4804.000M	65.6	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	42.2	54.0 Low Channel (2MHz)	-11.8	Vert
21	4959.920M	65.3	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	42.1	54.0 High Channel (1MHz)	-11.9	Horiz
22	4804.000M	65.3	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	41.9	54.0 Low Channel (1MHz)	-12.1	Vert
23	4804.000M	65.1	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	41.7	54.0 Low Channel (2MHz)	-12.3	Horiz
24	4959.920M	64.9	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	41.7	54.0 High Channel (1MHz)	-12.3	Vert
25	7278.000M	59.8	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	41.7	54.0 Mid Channel (1MHz)	-12.3	Vert
26	7278.000M	59.3	+35.9 +4.5	+1.4 +2.6	+0.3	-62.8	+0.0	41.2	54.0 Mid Channel (1MHz)	-12.8	Horiz
27	4851.140M	64.0	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	41.2	54.0 Mid Channel (2MHz)	-12.8	Vert
28	7439.920M	58.3	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	40.7	54.0 High Channel (1MHz)	-13.3	Horiz
29	7206.000M	58.7	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	40.3	54.0 Low Channel (2MHz)	-13.7	Horiz
30	7439.920M	57.9	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	40.3	54.0 High Channel (1MHz)	-13.7	Vert
31	7440.740M	57.8	+36.4 +4.6	+1.4 +2.6	+0.3	-62.9	+0.0	40.2	54.0 High Channel (2MHz)	-13.8	Vert
32	4959.660M	63.3	+32.7 +3.6	+1.1 +2.0	+0.3	-62.9	+0.0	40.1	54.0 High Channel (2MHz)	-13.9	Horiz

33	7206.000M	58.2	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	39.8	54.0 Low Channel (2MHz)	-14.2	Vert
34	4852.000M	62.3	+33.0 +3.6	+1.1 +2.0	+0.3	-62.8	+0.0	39.5	54.0 Mid Channel (1MHz)	-14.5	Vert
35	7206.000M	57.8	+35.4 +4.5	+1.4 +2.5	+0.3	-62.5	+0.0	39.4	54.0 Low Channel (1MHz)	-14.6	Vert
36	4804.000M	62.4	+32.6 +3.6	+1.1 +2.0	+0.3	-63.0	+0.0	39.0	54.0 Low Channel (1MHz)	-15.0	Horiz

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	**WaveLynx Technologies Corporation**		
Specification:	**15.209 Radiated Emissions - Average**		
Work Order #:	**111609**	Date:	8/1/2025
Test Type:	**Radiated Scan**	Time:	11:25:55
Tested By:	Jonathan Wharton	Sequence#:	32
Software:	EMITest 5.03.20		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions
Frequency Range: 12GHz to 18GHz
Method: ANSI C63.10

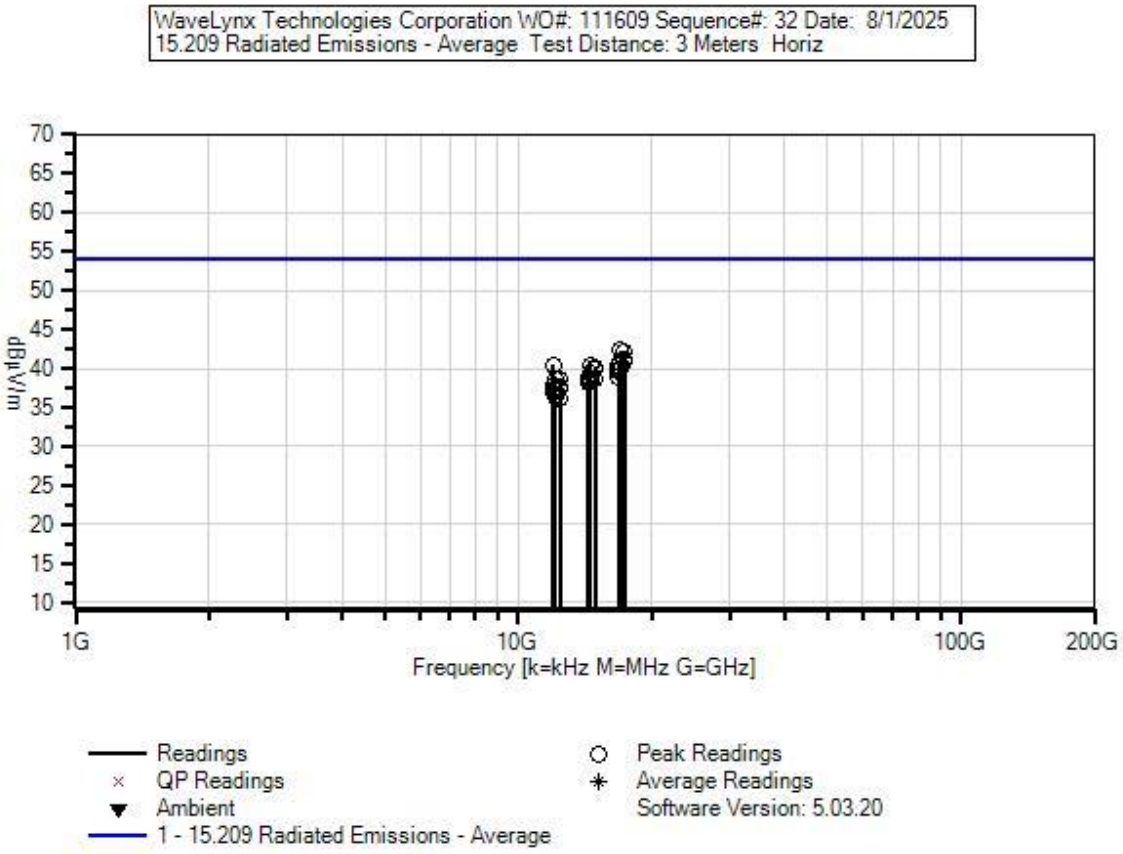
Test Environment Conditions:
Temperature: 22.7°C
Humidity: 45%
Pressure: 101.6kPa

Highest generated frequency: 2480MHz

The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational

Note
Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz

Modification #1 was in place during testing.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP07703	Cable	32022-29094K-29094K-120TC	8/16/2024	8/16/2026
T2	ANP00928	Cable	various	1/26/2024	1/26/2026
T3	ANP07705	Cable	32022-29094K-29094K-120TC	8/16/2024	8/16/2026
T4	AN02693	Active Horn Antenna	AMFW-5F-12001800-20-10P	1/9/2024	1/9/2026

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	16982.030 M	42.5	+6.0	+0.5	+5.8	-12.5	+0.0	42.3	54.0	-11.7	Horiz
									Mid Channel (1MHz)		
2	16982.030 M	42.5	+6.0	+0.5	+5.8	-12.5	+0.0	42.3	54.0	-11.7	Vert
									Mid Channel (1MHz)		
3	17360.030 M	41.1	+6.0	+0.5	+5.8	-11.3	+0.0	42.1	54.0	-11.9	Vert
									High Channel (1MHz)		
4	17360.030 M	41.1	+6.0	+0.5	+5.8	-11.3	+0.0	42.1	54.0	-11.9	Horiz
									High Channel (2MHz)		
5	17360.030 M	40.1	+6.0	+0.5	+5.8	-11.3	+0.0	41.1	54.0	-12.9	Vert
									High Channel (2MHz)		
6	17360.030 M	39.9	+6.0	+0.5	+5.8	-11.3	+0.0	40.9	54.0	-13.1	Horiz
									High Channel (1MHz)		
7	16982.030 M	40.9	+6.0	+0.5	+5.8	-12.5	+0.0	40.7	54.0	-13.3	Horiz
									Mid Channel (2MHz)		
8	12009.850 M	43.3	+4.9	+0.7	+4.7	-13.2	+0.0	40.4	54.0	-13.6	Horiz
									Low Channel (1MHz)		
9	14556.030 M	42.4	+5.5	+0.6	+5.3	-13.4	+0.0	40.4	54.0	-13.6	Horiz
									Mid Channel (1MHz)		
10	16814.030 M	41.4	+5.9	+0.5	+5.7	-13.2	+0.0	40.3	54.0	-13.7	Vert
									Low Channel (2MHz)		
11	14880.030 M	41.7	+5.6	+0.6	+5.4	-13.2	+0.0	40.1	54.0	-13.9	Vert
									High Channel (2MHz)		
12	16982.030 M	40.2	+6.0	+0.5	+5.8	-12.5	+0.0	40.0	54.0	-14.0	Vert
									Mid Channel (2MHz)		

13	14880.030 M	41.5	+5.6	+0.6	+5.4	-13.2	+0.0	39.9	54.0	-14.1	Vert High Channel (1MHz)
14	16814.030 M	41.0	+5.9	+0.5	+5.7	-13.2	+0.0	39.9	54.0	-14.1	Vert Low Channel (1MHz)
15	16814.030 M	40.8	+5.9	+0.5	+5.7	-13.2	+0.0	39.7	54.0	-14.3	Horiz Low Channel (2MHz)
16	14556.030 M	41.5	+5.5	+0.6	+5.3	-13.4	+0.0	39.5	54.0	-14.5	Vert Mid Channel (1MHz)
17	16813.850 M	40.0	+5.9	+0.5	+5.7	-13.2	+0.0	38.9	54.0	-15.1	Horiz Low Channel (1MHz)
18	14412.030 M	41.1	+5.5	+0.6	+5.3	-13.6	+0.0	38.9	54.0	-15.1	Vert Low Channel (2MHz)
19	14556.030 M	40.7	+5.5	+0.6	+5.3	-13.4	+0.0	38.7	54.0	-15.3	Vert Mid Channel (2MHz)
20	12130.030 M	41.8	+5.0	+0.7	+4.8	-13.6	+0.0	38.7	54.0	-15.3	Vert Mid Channel (2MHz)
21	14880.030 M	40.2	+5.6	+0.6	+5.4	-13.2	+0.0	38.6	54.0	-15.4	Horiz High Channel (2MHz)
22	14880.030 M	40.2	+5.6	+0.6	+5.4	-13.2	+0.0	38.6	54.0	-15.4	Horiz High Channel (1MHz)
23	12400.030 M	41.9	+5.0	+0.6	+4.8	-13.8	+0.0	38.5	54.0	-15.5	Vert High Channel (2MHz)
24	14411.850 M	40.7	+5.5	+0.6	+5.3	-13.6	+0.0	38.5	54.0	-15.5	Horiz Low Channel (1MHz)
25	14412.030 M	40.7	+5.5	+0.6	+5.3	-13.6	+0.0	38.5	54.0	-15.5	Horiz Low Channel (2MHz)

26	14556.030 M	40.4	+5.5	+0.6	+5.3	-13.4	+0.0	38.4	54.0	-15.6	Horiz
									Mid Channel (2MHz)		
27	14412.030 M	40.4	+5.5	+0.6	+5.3	-13.6	+0.0	38.2	54.0	-15.8	Vert
									Low Channel (1MHz)		
28	12010.030 M	40.6	+4.9	+0.7	+4.7	-13.2	+0.0	37.7	54.0	-16.3	Vert
									Low Channel (1MHz)		
29	12400.030 M	41.0	+5.0	+0.6	+4.8	-13.8	+0.0	37.6	54.0	-16.4	Horiz
									High Channel (1MHz)		
30	12400.030 M	40.8	+5.0	+0.6	+4.8	-13.8	+0.0	37.4	54.0	-16.6	Horiz
									High Channel (2MHz)		
31	12010.030 M	40.1	+4.9	+0.7	+4.7	-13.2	+0.0	37.2	54.0	-16.8	Horiz
									Low Channel (2MHz)		
32	12130.030 M	40.1	+5.0	+0.7	+4.8	-13.6	+0.0	37.0	54.0	-17.0	Vert
									Mid Channel (1MHz)		
33	12010.030 M	39.6	+4.9	+0.7	+4.7	-13.2	+0.0	36.7	54.0	-17.3	Vert
									Low Channel (2MHz)		
34	12130.030 M	39.8	+5.0	+0.7	+4.8	-13.6	+0.0	36.7	54.0	-17.3	Horiz
									Mid Channel (1MHz)		
35	12130.030 M	39.4	+5.0	+0.7	+4.8	-13.6	+0.0	36.3	54.0	-17.7	Horiz
									Mid Channel (2MHz)		
36	12400.030 M	39.4	+5.0	+0.6	+4.8	-13.8	+0.0	36.0	54.0	-18.0	Vert
									High Channel (1MHz)		

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	**WaveLynx Technologies Corporation**		
Specification:	**15.209 Radiated Emissions - Average**		
Work Order #:	**111609**	Date:	8/1/2025
Test Type:	**Radiated Scan**	Time:	12:17:39
Tested By:	Jonathan Wharton	Sequence#:	35
Software:	EMITest 5.03.20		

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 3			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 3			

Test Conditions / Notes:

Radiated Spurious Emissions
Frequency Range: 18GHz to 26GHz
Method: ANSI C63.10

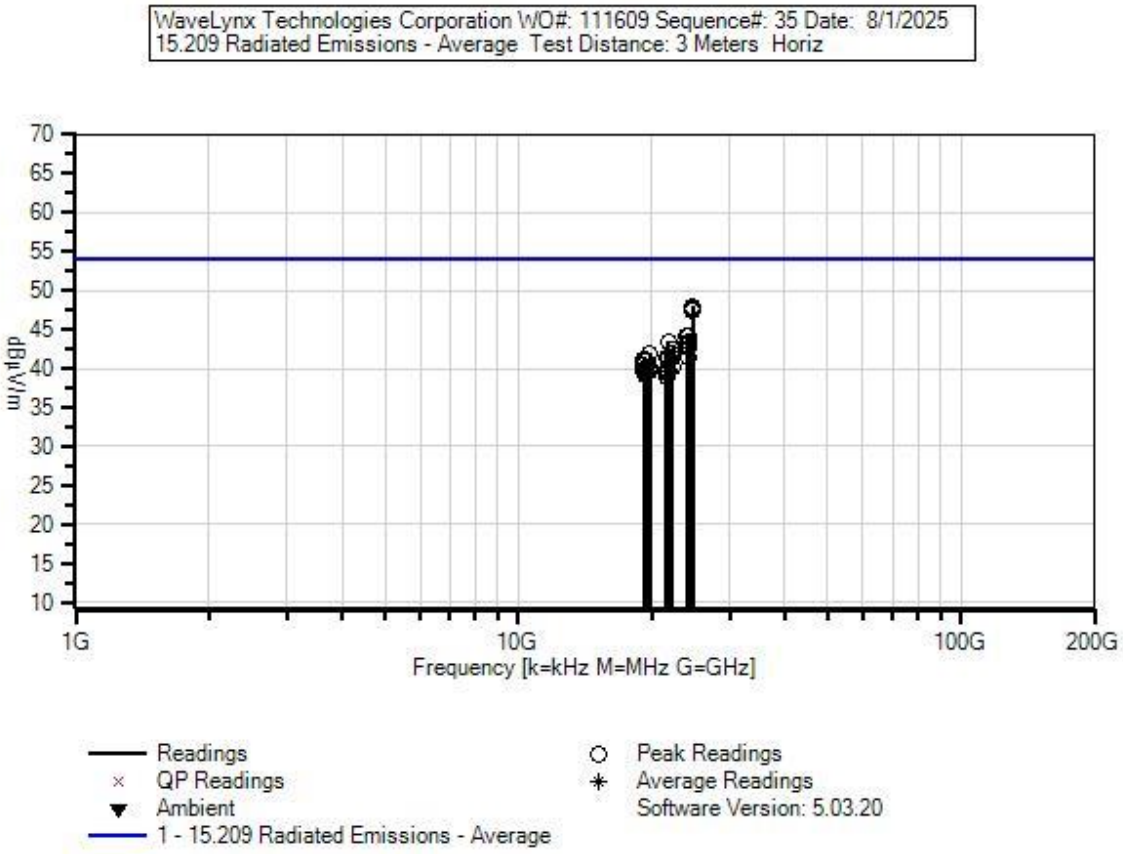
Test Environment Conditions:
Temperature: 22.7°C
Humidity: 45%
Pressure: 101.6kPa

Highest generated frequency: 2480MHz

The EUT is operated as intended. It is powered by a DC power supply at 12VDC. All functions are operational

Note
Low Channel (1MHz/2MHz) / Mid Channel (1MHz/2MHz) / High Channel (1MHz/2MHz) / 125kHz / 13.5MHz

Modification #1 was in place during testing.



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027
T1	ANP07703	Cable	32022-29094K-29094K-120TC	8/16/2024	8/16/2026
T2	ANP00929	Cable	various	1/26/2024	1/26/2026
T3	ANP07705	Cable	32022-29094K-29094K-120TC	8/16/2024	8/16/2026
T4	AN02694	Horn Antenna	AMFW-5F-18002650-20-10P	1/9/2024	1/9/2026

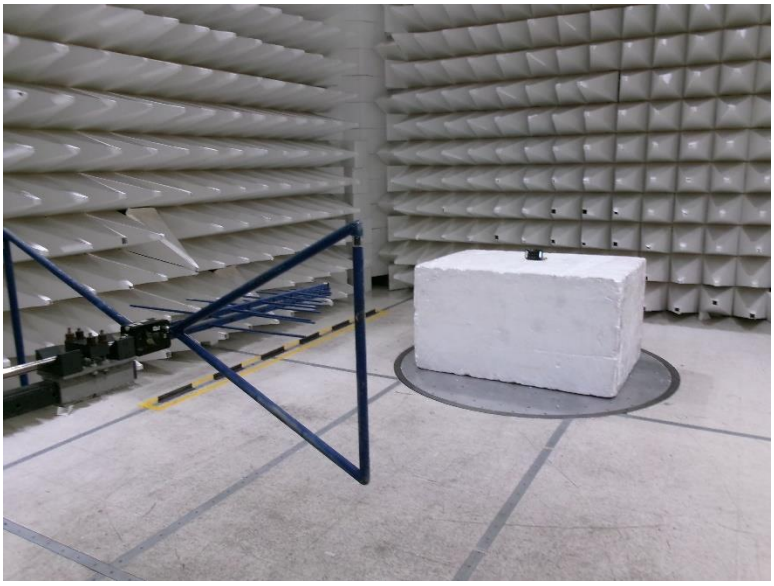
Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	24800.030 M	46.1	+7.5	+2.8	+7.3	-15.8	+0.0	47.9	54.0	-6.1	Horiz
									High Channel (2MHz)		
2	24800.030 M	45.9	+7.5	+2.8	+7.3	-15.8	+0.0	47.7	54.0	-6.3	Vert
									High Channel (1MHz)		
3	24800.030 M	45.8	+7.5	+2.8	+7.3	-15.8	+0.0	47.6	54.0	-6.4	Horiz
									High Channel (1MHz)		
4	24800.030 M	45.7	+7.5	+2.8	+7.3	-15.8	+0.0	47.5	54.0	-6.5	Vert
									High Channel (2MHz)		
5	24020.030 M	43.5	+7.3	+2.6	+7.0	-16.2	+0.0	44.2	54.0	-9.8	Horiz
									Low Channel (2MHz)		
6	24260.030 M	43.0	+7.4	+2.7	+7.1	-16.1	+0.0	44.1	54.0	-9.9	Horiz
									Mid Channel (2MHz)		
7	24020.030 M	43.4	+7.3	+2.6	+7.0	-16.2	+0.0	44.1	54.0	-9.9	Vert
									Low Channel (1MHz)		
8	24260.030 M	42.4	+7.4	+2.7	+7.1	-16.1	+0.0	43.5	54.0	-10.5	Vert
									Mid Channel (2MHz)		
9	21834.030 M	43.6	+6.9	+2.6	+6.7	-16.3	+0.0	43.5	54.0	-10.5	Vert
									Mid Channel (2MHz)		
10	24020.030 M	42.4	+7.3	+2.6	+7.0	-16.2	+0.0	43.1	54.0	-10.9	Vert
									Low Channel (2MHz)		
11	24020.030 M	42.2	+7.3	+2.6	+7.0	-16.2	+0.0	42.9	54.0	-11.1	Horiz
									Low Channel (1MHz)		
12	24260.030 M	41.5	+7.4	+2.7	+7.1	-16.1	+0.0	42.6	54.0	-11.4	Horiz
									Mid Channel (2MHz)		

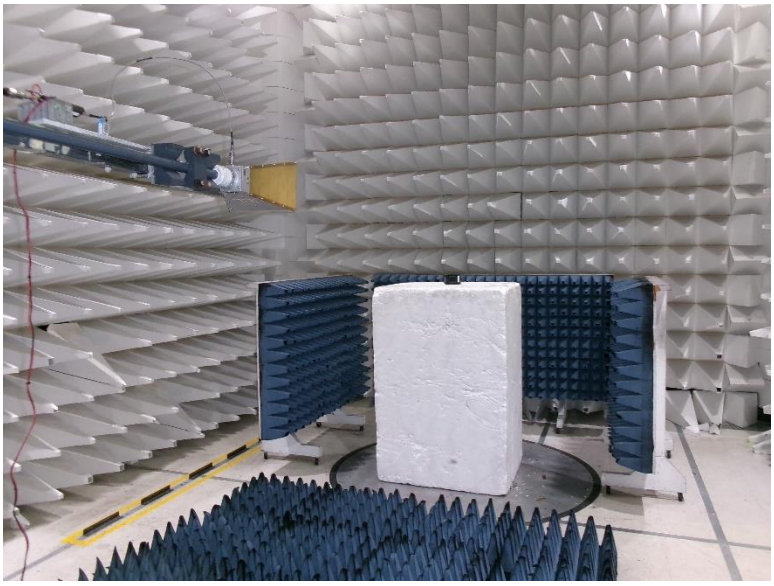
13	22320.030 M	42.5	+7.1	+2.5	+6.8	-16.5	+0.0	42.4	54.0	-11.6	Horiz High Channel (1MHz)
14	22320.030 M	41.9	+7.1	+2.5	+6.8	-16.5	+0.0	41.8	54.0	-12.2	Vert High Channel (1MHz)
15	19840.030 M	41.6	+6.6	+2.9	+6.3	-15.6	+0.0	41.8	54.0	-12.2	Vert High Channel (2MHz)
16	24260.030 M	40.4	+7.4	+2.7	+7.1	-16.1	+0.0	41.5	54.0	-12.5	Vert Mid Channel (2MHz)
17	22320.030 M	41.5	+7.1	+2.5	+6.8	-16.5	+0.0	41.4	54.0	-12.6	Horiz High Channel (2MHz)
18	21834.030 M	41.5	+6.9	+2.6	+6.7	-16.3	+0.0	41.4	54.0	-12.6	Horiz Mid Channel (2MHz)
19	21834.030 M	41.4	+6.9	+2.6	+6.7	-16.3	+0.0	41.3	54.0	-12.7	Horiz Mid Channel (2MHz)
20	21618.030 M	41.4	+6.9	+2.6	+6.6	-16.2	+0.0	41.3	54.0	-12.7	Horiz Low Channel (1MHz)
21	19408.030 M	41.0	+6.5	+3.0	+6.2	-15.5	+0.0	41.2	54.0	-12.8	Horiz Mid Channel (2MHz)
22	19216.030 M	41.1	+6.4	+3.0	+6.2	-15.5	+0.0	41.2	54.0	-12.8	Vert Low Channel (2MHz)
23	19408.030 M	40.6	+6.5	+3.0	+6.2	-15.5	+0.0	40.8	54.0	-13.2	Vert Mid Channel (2MHz)
24	19216.030 M	40.4	+6.4	+3.0	+6.2	-15.5	+0.0	40.5	54.0	-13.5	Horiz Low Channel (1MHz)
25	22320.030 M	40.3	+7.1	+2.5	+6.8	-16.5	+0.0	40.2	54.0	-13.8	Vert High Channel (2MHz)

26	19840.030 M	40.0	+6.6	+2.9	+6.3	-15.6	+0.0	40.2	54.0	-13.8	Horiz High Channel (1MHz)
27	19840.030 M	40.0	+6.6	+2.9	+6.3	-15.6	+0.0	40.2	54.0	-13.8	Horiz High Channel (2MHz)
28	19216.030 M	39.8	+6.4	+3.0	+6.2	-15.5	+0.0	39.9	54.0	-14.1	Vert Low Channel (1MHz)
29	21618.030 M	40.0	+6.9	+2.6	+6.6	-16.2	+0.0	39.9	54.0	-14.1	Vert Low Channel (1MHz)
30	19408.030 M	39.6	+6.5	+3.0	+6.2	-15.5	+0.0	39.8	54.0	-14.2	Vert Mid Channel (2MHz)
31	19840.030 M	39.5	+6.6	+2.9	+6.3	-15.6	+0.0	39.7	54.0	-14.3	Vert High Channel (1MHz)
32	19216.030 M	39.6	+6.4	+3.0	+6.2	-15.5	+0.0	39.7	54.0	-14.3	Horiz Low Channel (2MHz)
33	21834.030 M	39.7	+6.9	+2.6	+6.7	-16.3	+0.0	39.6	54.0	-14.4	Vert Mid Channel (2MHz)
34	21618.030 M	39.5	+6.9	+2.6	+6.6	-16.2	+0.0	39.4	54.0	-14.6	Horiz Low Channel (2MHz)
35	19408.030 M	39.0	+6.5	+3.0	+6.2	-15.5	+0.0	39.2	54.0	-14.8	Horiz Mid Channel (2MHz)
36	21618.030 M	38.9	+6.9	+2.6	+6.6	-16.2	+0.0	38.8	54.0	-15.2	Vert Low Channel (2MHz)

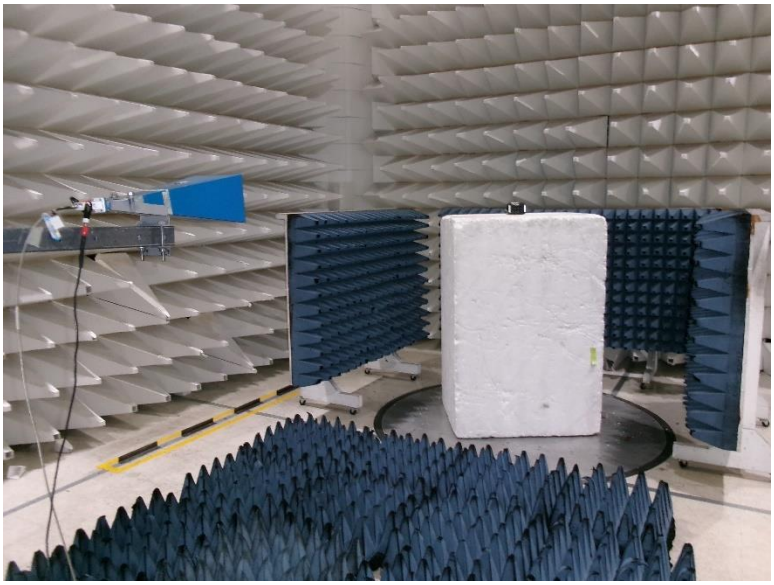
Test Setup Photo(s)



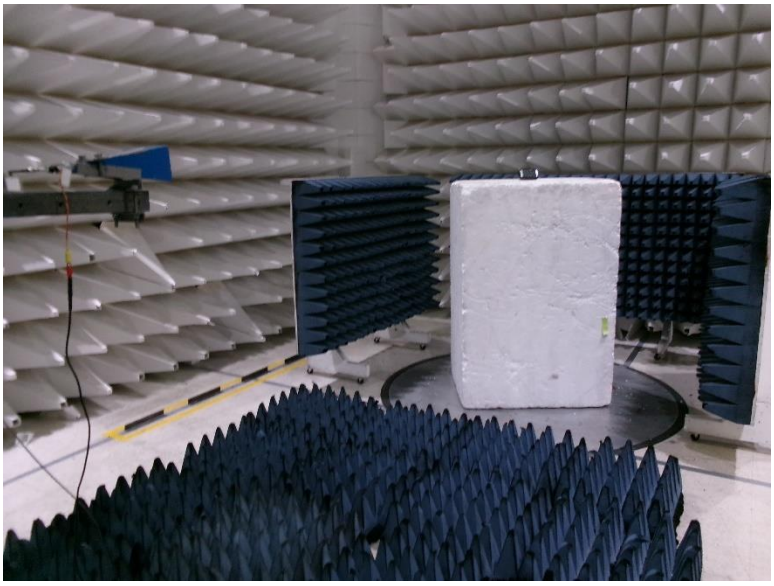
Below 1GHz



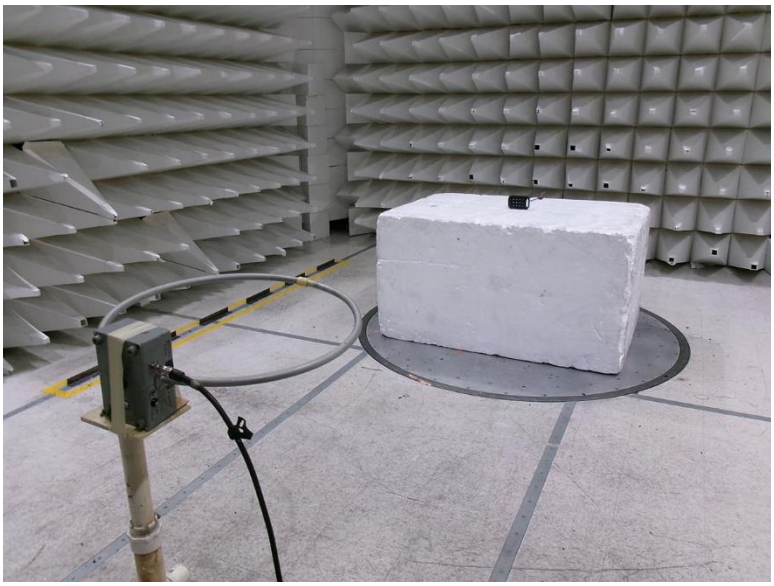
1-12GHz



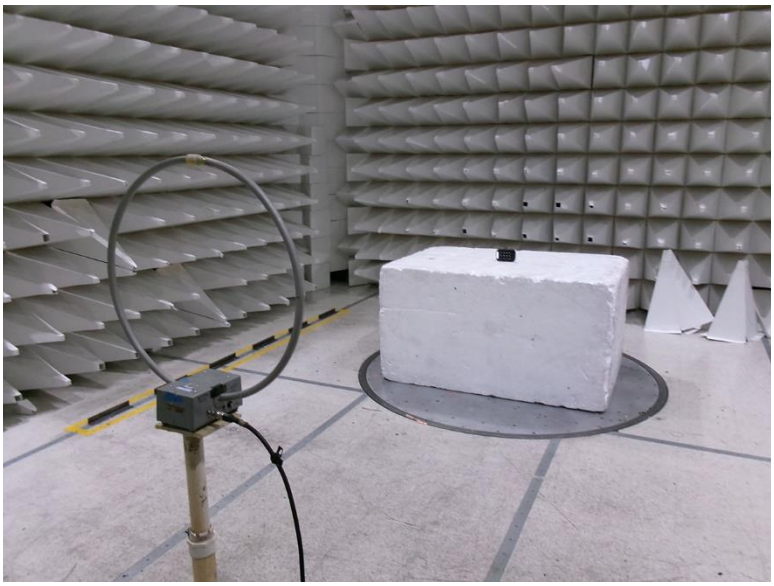
12-18GHz



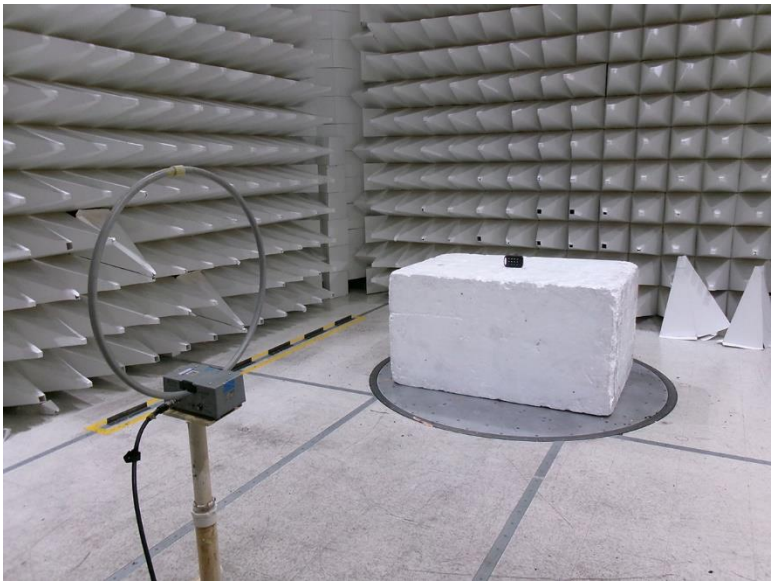
18-26GHz



Ground Facing C1



Parallel C1



Perpendicular C1

15.207 AC Conducted Emissions

Test Setup/Conditions			
Test Location:	Fremont Chamber 3	Test Engineer:	Hieu Song Nguyenpham
Test Method:	ANSI C63.10 (2020)	Test Date(s):	7/22/2025 and 7/31/2025
Configuration:	1		

Environmental Conditions			
Temperature (ºC)	23.5	Relative Humidity (%):	46

Test Data

Test Location: CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170
Customer: **WaveLynx Technologies Corporation**
Specification: **15.207 AC Mains - Average**
Work Order #: **111609** Date: 7/22/2025
Test Type: **Conducted Emissions** Time: 12:27:30
Tested By: Hieu Song Nguyenpham Sequence#: 1
Software: EMITest 5.03.20 120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Emission
Frequency Range: 150kHz to 30MHz

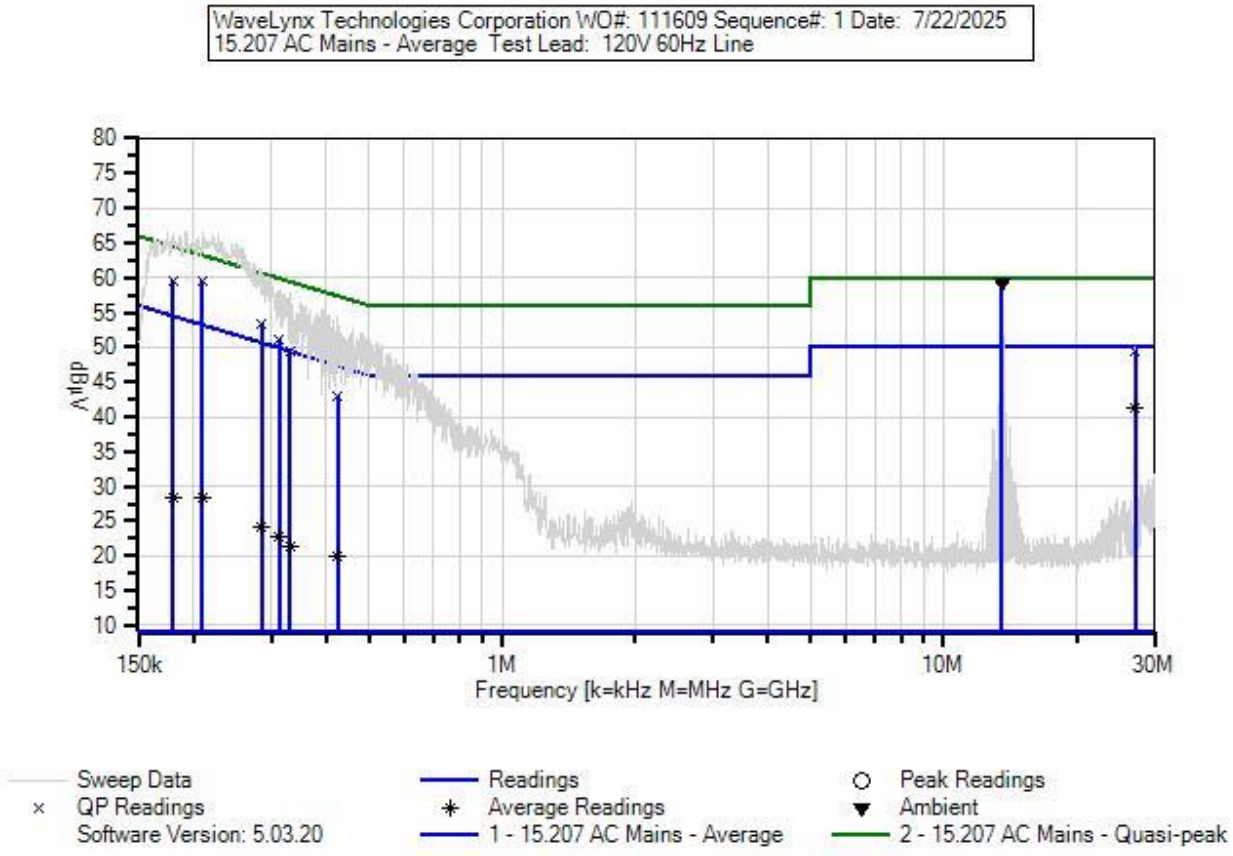
Test Environment Conditions:
Temperature: 23.6°C
Relative Humidity: 44%
Atmospheric Pressure: 101.9kPa

Highest generated frequency: 2480MHz

The EUT is operated as intended. It is powered by DC power supply at 12VDC. All functions is on

Please see separate report demonstrating compliance for 13.56MHz transmitter.

Note
All the transmitter is in Normal Operate Mode. EUT is transmitting at 125kHz and 13.56MHz simultaneously



Test Equipment:

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
T1	AN03814	50uH LISN-1PH-Line (dB)	NSLK 8126	1/13/2025	1/13/2027
	AN03814	50uH LISN-1PH-Neutral (dB)	NSLK 8126	1/13/2025	1/13/2027
T2	ANP01211	Attenuator	23-10-34	12/2/2024	12/2/2026
T3	ANP00880	Cable	RG214U	3/26/2024	3/26/2026
T4	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T5	ANP05258	High Pass Filter	HE9615-150K-50-720B	5/6/2024	5/6/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data: Reading listed by margin. Test Lead: Line

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	13.571M Ambient	48.3	+0.4 +0.1	+9.9	+0.3	+0.1	+0.0	59.1	50.0 Fundamental of 13.56MHz Transmitter	+9.1	Line
2	209.631k QP	49.5	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	59.6	63.2	-3.6	Line
3	179.631k QP	49.3	+0.1 +0.3	+9.7	+0.1	+0.0	+0.0	59.5	64.5	-5.0	Line
4	285.260k QP	43.3	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	53.4	60.7	-7.3	Line
5	27.121M Ave	29.9	+0.6 +0.2	+9.9	+0.5	+0.2	+0.0	41.3	50.0	-8.7	Line
6	312.894k QP	41.1	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	51.2	59.9	-8.7	Line
7	331.074k QP	39.2	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	49.3	59.4	-10.1	Line
8	27.121M QP	38.1	+0.6 +0.2	+9.9	+0.5	+0.2	+0.0	49.5	60.0	-10.5	Line
^	27.121M	39.0	+0.6 +0.2	+9.9	+0.5	+0.2	+0.0	50.4	50.0	+0.4	Line
10	423.429k QP	32.9	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	43.0	57.4	-14.4	Line
11	209.631k Ave	18.1	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	28.2	53.2	-25.0	Line
^	209.631k	57.1	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	67.2	53.2	+14.0	Line
13	179.631k Ave	18.2	+0.1 +0.3	+9.7	+0.1	+0.0	+0.0	28.4	54.5	-26.1	Line
^	179.631k	56.3	+0.1 +0.3	+9.7	+0.1	+0.0	+0.0	66.5	54.5	+12.0	Line
15	285.260k Ave	14.1	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	24.2	50.7	-26.5	Line
^	285.260k	49.9	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	60.0	50.7	+9.3	Line
17	312.894k Ave	12.6	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	22.7	49.9	-27.2	Line
^	312.894k	48.8	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	58.9	49.9	+9.0	Line
19	423.429k Ave	9.8	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	19.9	47.4	-27.5	Line
^	423.429k	42.4	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	52.5	47.4	+5.1	Line
21	331.074k Ave	11.3	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	21.4	49.4	-28.0	Line
^	331.074k	48.4	+0.1 +0.1	+9.8	+0.1	+0.0	+0.0	58.5	49.4	+9.1	Line

Test Location:	CKC Laboratories, Inc. • 1120 Fulton Place • Fremont, CA 94539 • (510) 249-1170		
Customer:	**WaveLynx Technologies Corporation**		
Specification:	**15.207 AC Mains - Average**		
Work Order #:	**111609**	Date:	7/22/2025
Test Type:	**Conducted Emissions**	Time:	13:22:40
Tested By:	Hieu Song Nguyenpham	Sequence#:	2
Software:	EMITest 5.03.20		120V 60Hz

Equipment Tested:

Device	Manufacturer	Model #	S/N
Configuration 1			

Support Equipment:

Device	Manufacturer	Model #	S/N
Configuration 1			

Test Conditions / Notes:

Conducted Emission
Frequency Range: 150kHz to 30MHz

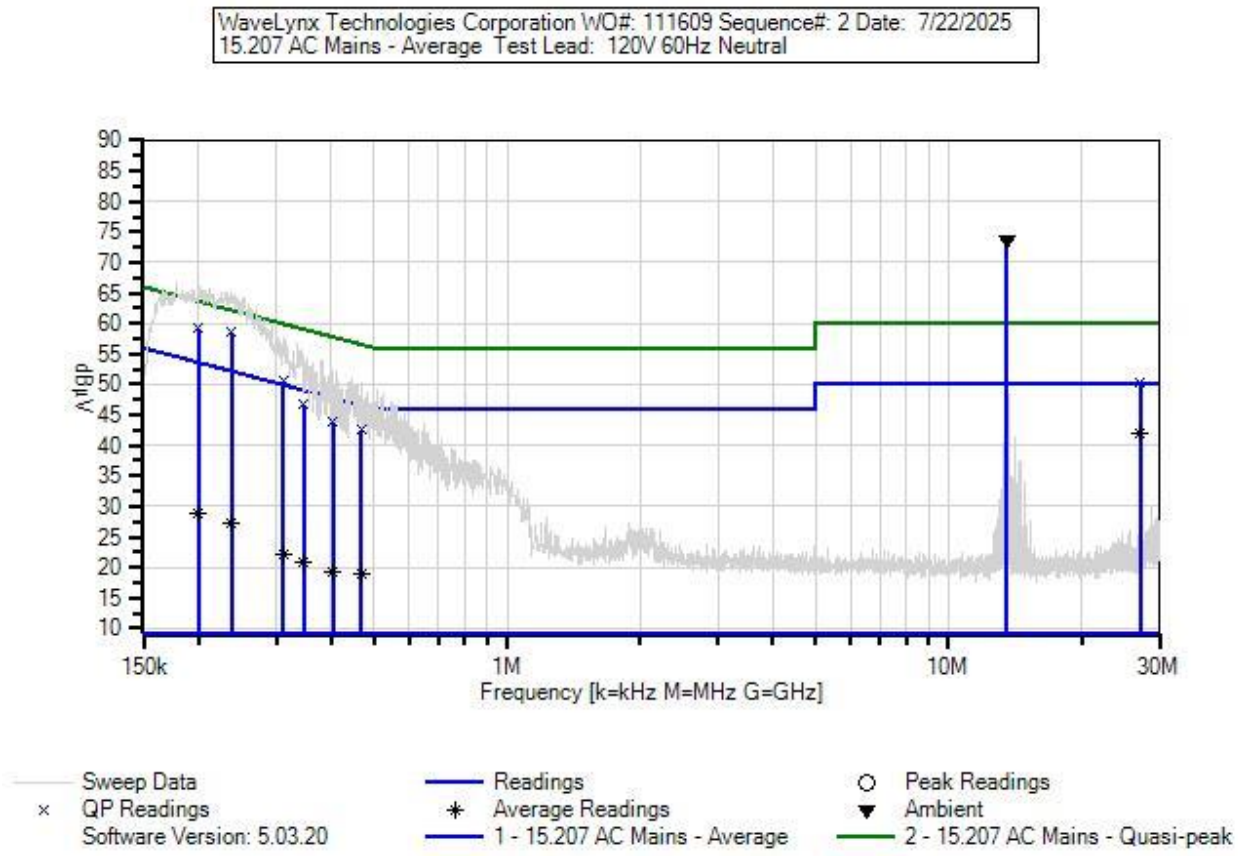
Test Environment Conditions:
Temperature: 23.6°C
Relative Humidity: 44%
Atmospheric Pressure: 101.9kPa

Highest generated frequency: 2480MHz

The EUT is operated as intended. It is powered by DC power supply at 12VDC. All functions is on

Please see separate report demonstrating compliance for 13.56MHz transmitter.

Note
All the transmitter is in Normal Operate Mode. EUT is transmitting at 125kHz and 13.56MHz simultaneously



Test Equipment:

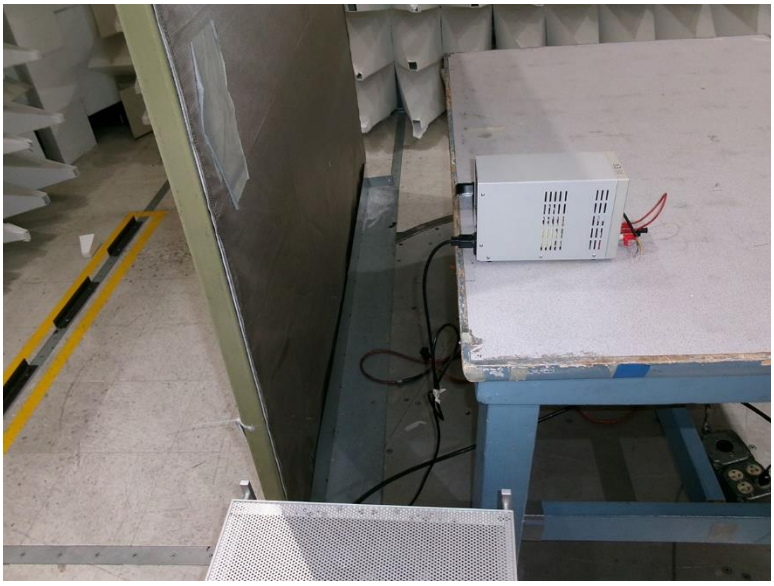
ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN03814	50uH LISN-1PH-Line (dB)	NSLK 8126	1/13/2025	1/13/2027
T1	AN03814	50uH LISN-1PH-Neutral (dB)	NSLK 8126	1/13/2025	1/13/2027
T2	ANP01211	Attenuator	23-10-34	12/2/2024	12/2/2026
T3	ANP00880	Cable	RG214U	3/26/2024	3/26/2026
T4	ANP06691	Cable	PE3062-180	3/20/2024	3/20/2026
T5	ANP05258	High Pass Filter	HE9615-150K-50-720B	5/6/2024	5/6/2026
	AN02660	Spectrum Analyzer	E4446A	1/7/2025	1/7/2027

Measurement Data: Reading listed by margin. Test Lead: Neutral

#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV	dBµV	dB	Ant
1	13.562M Ambient	62.7	+0.5 +0.1	+9.9	+0.3	+0.1	+0.0	73.6	50.0 Fundamental of 13.56 Transmitter	+23.6	Neutr
2	237.264k QP	48.4	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	58.6	62.2	-3.6	Neutr
3	200.000k QP	49.0	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	59.2	63.6	-4.4	Neutr
4	27.121M Ave	30.4	+0.7 +0.2	+9.9	+0.5	+0.2	+0.0	41.9	50.0	-8.1	Neutr
5	311.439k QP	40.4	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	50.6	59.9	-9.3	Neutr
6	27.121M QP	38.7	+0.7 +0.2	+9.9	+0.5	+0.2	+0.0	50.2	60.0	-9.8	Neutr
^	27.121M	39.4	+0.7 +0.2	+9.9	+0.5	+0.2	+0.0	50.9	50.0	+0.9	Neutr
8	345.617k QP	36.5	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	46.7	59.1	-12.4	Neutr
9	403.794k QP	33.6	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	43.8	57.8	-14.0	Neutr
10	467.061k QP	32.4	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	42.6	56.6	-14.0	Neutr
11	200.000k Ave	18.6	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	28.8	53.6	-24.8	Neutr
^	200.000k	56.6	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	66.8	53.6	+13.2	Neutr
13	237.264k Ave	16.9	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	27.1	52.2	-25.1	Neutr
^	237.264k	54.7	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	64.9	52.2	+12.7	Neutr
15	467.061k Ave	8.8	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	19.0	46.6	-27.6	Neutr
^	467.061k	41.9	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	52.1	46.6	+5.5	Neutr
17	311.439k Ave	12.1	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	22.3	49.9	-27.6	Neutr
^	311.439k	47.2	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	57.4	49.9	+7.5	Neutr
19	345.617k Ave	10.5	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	20.7	49.1	-28.4	Neutr
^	345.617k	45.2	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	55.4	49.1	+6.3	Neutr
21	403.794k Ave	9.0	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	19.2	47.8	-28.6	Neutr
^	403.794k	43.3	+0.2 +0.1	+9.8	+0.1	+0.0	+0.0	53.5	47.8	+5.7	Neutr

Test Setup Photo(s)

Front View



Side View

Appendix A: Manufacturer Declaration

The following device/models were tested by CKC Laboratories, Inc.:

Device: RFID Access Control Reader, APEX
Model: AX-25

The manufacturer declares that the following additional model is identical electrically or any differences between them do not affect their EMC characteristics, and therefore meets the level of testing equivalent to the tested model.

Model: AX-20

Supplemental Information

Measurement Uncertainty

Uncertainty Value	Parameter
5.77 dB	Radiated Emissions
0.673 dB	RF Conducted Measurements
5.77 x 10^{-10}	Frequency Deviation
0.00005 s	Time Deviation
3.18 dB	Mains Conducted Emissions

Uncertainties reported are worst case for all CKC Laboratories' sites and represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2.
Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

Unless otherwise indicated, the following configuration parameters are used for equipment setup: The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dBµV/m, the spectrum analyzer reading in dBµV was corrected by using the following formula. This reading was then compared to the applicable specification limit. Individual measurements were compared with the displayed limit value in the margin column. The margin was calculated based on subtracting the limit value from the corrected measurement value; a positive margin represents a measurement exceeding the limit, while a negative margin represents a measurement less than the limit.

SAMPLE CALCULATIONS		
	Meter reading	(dBµV)
+	Antenna Factor	(dB/m)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dBµV/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. Unless otherwise specified, the following table shows the measuring equipment bandwidth settings that were used in designated frequency bands. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

MEASURING EQUIPMENT BANDWIDTH SETTINGS PER FREQUENCY RANGE			
TEST	BEGINNING FREQUENCY	ENDING FREQUENCY	BANDWIDTH SETTING
CONDUCTED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	9 kHz	150 kHz	200 Hz
RADIATED EMISSIONS	150 kHz	30 MHz	9 kHz
RADIATED EMISSIONS	30 MHz	1000 MHz	120 kHz
RADIATED EMISSIONS	1000 MHz	>1 GHz	1 MHz

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "positive peak" detector mode. Whenever a "quasi-peak" or "average" reading was recorded, the measurement was annotated with a "QP" or an "Ave" on the appropriate rows of the data sheets. In cases where quasi-peak or average limits were employed and data exists for multiple measurement types for the same frequency then the peak measurement was retained in the report for reference, however the numbering for the affected row was removed and an arrow or caret ("^") was placed in the far left-hand column indicating that the row above takes precedence for comparison to the limit. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer or receiver recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature called "peak hold," the measurement device had the ability to measure intermittent or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

Quasi-peak measurements were taken using the quasi-peak detector when the true peak values exceeded or were within 2 dB of a quasi-peak specification limit. Additional QP measurements may have been taken at the discretion of the operator.

Average

Average measurements were taken using the average detector when the true peak values exceeded or were within 2 dB of an average specification limit. Additional average measurements may have been taken at the discretion of the operator. If the specification or test procedure requires trace averaging, then the averaging was performed using 100 samples or as required by the specification. All other average measurements are performed using video bandwidth averaging. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point, the measuring device is set into the linear mode and the scan time is reduced.

End of Report