

TEST REPORT

Application No.: SUCR2606000575AU
FCC ID: LHJ-FE5RW0D31
Applicant: AUMOVIO Systems, Inc.
Address of Applicant: 21440 West Lake Cook, Deer Park, Illinois 60010, USA
Manufacturer: AUMOVIO Systems, Inc.
Address of Manufacturer: 21440 West Lake Cook, Deer Park, Illinois 60010, USA
Equipment Under Test (EUT):
EUT Name: FE5RW0D31
Model No.: FE5RW0D31
Trade Mark: AUMOVIO
Standard(s) : 47 CFR Part 15, Subpart B
Date of Receipt: 2026-06-30
Date of Test: 2026-07-22 to 2026-07-22
Date of Issue: 2026-09-16

Test Result:
Pass*

* In the configuration tested, the EUT complied with the standards specified above.

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Revision Record			
Version	Description	Date	Remark
00	Original	2026-09-16	/

Authorized for issue by:			
Prepared By		<i>Nature Shen</i>	
		Nature_Shen/Project Engineer	
Approved By		<i>Cedar Cheng</i>	
		Cedar Cheng /Reviewer	



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2 Test Summary

Emission Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4-2014	15.109(a); Class B	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.4-2014	15.109(g); Class B	Pass

Remark:

This test report (Report No.: SUCR260600057501 issue on 2026-09-16) is based on the original test report (Report No.: FC1N2419-01 issue on 2022-06-15).

Review this report and original report, this report just changing the parts according to the declaration letter from client.

Therefore, all tests in this report were conducted based on the worst-case scenario from the original report (Report No. FC1N2419-01 issue on 2022-06-15).



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4 General Information

4.1 Details of E.U.T.

Power supply:	Input voltage for the dev kit = 14V (the module nom regulated voltage = 4.0 V DC)
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4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
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The EUT has been tested as an independent unit.			

4.3 Measurement Uncertainty & Decision Rule

Test Item	Measurement Uncertainty (U_{LAB})	U_{CISPR}
Conducted Emissions (150kHz-30MHz)	2.9dB	3.8dB
Radiated Emissions (30MHz-1GHz)	4.8dB	6.3dB
Radiated Emissions (Above 1GHz)	4.8dB (1GHz- 6GHz)	5.2dB (1GHz-6GHz)
	4.8dB (6GHz- 18GHz)	5.5dB (6GHz-18GHz)
Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. Decision Rule: - CISPR 16-4-2 for emission measurements is as below described. - Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section. U_{LAB} less than U_{CISPR}, therefore: - compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit. - non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit. - For immunity testing no decision rule is applicable.		

4.4 Test Location

All tests were performed at:

SGS Tongfang Technical Services (Suzhou) Co., Ltd.

South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu)
Pilot Free Trade Zone

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).

2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).

3. Sample source: sent by customer.

4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **A2LA (Certificate No. 6336.01)**

SGS Tongfang Technical Services (Suzhou) Co., Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA).

- **FCC (Designation Number: CN1312)**

This site has been recognized as an accredited testing laboratory. Test Firm Registration
Number: 717327

- **ISED (CAB Identifier: CN0120)**

This site has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory.

Company Number: 27594

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2026/6/9	2029/6/8
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2026/2/11	2027/2/10
Test receiver	ROHDE&SCHWARZ	ESR7	SUWI-01-10-01	2026/1/14	2027/1/13
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	VULB 9168	SUWI-01-11-04	2025/11/29	2027/11/28
Amplifier	Tonscend	TAP9K3G40	SUWI-01-14-01	2026/1/14	2027/1/13
Measurement Software	Tonscend	JS32-RE	SUWI-02-09-04	NCR	NCR

Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Semi-Anechoic Chamber	Brilliant-emc	N/A	SUWI-04-02-01	2026/6/9	2029/6/8
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-05	2026/2/11	2027/2/10
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2026/1/14	2027/1/13
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9120D	SUWI-01-11-02	2025/5/7	2027/5/6
Receiving antenna	SCHWRZBECK MESS-ELEKTRONIK	BBHA 9170	SUWI-01-11-03	2025/5/7	2027/5/6
Amplifier	Tonscend	TAP01018050	SUWI-01-14-02	2026/1/14	2027/1/13
Amplifier	Tonscend	TAP18040048	SUWI-01-14-03	2026/1/14	2027/1/13
Measurement Software	Tonscend	JS32-RE	SUWI-02-09-04	NCR	NCR

6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4-2014

Limit:

Class B

Test Distance: 3m

30MHz -88MHz 40.0(dBμV/m) quasi-peak

88MHz-216MHz 43.5(dBμV/m) quasi-peak

216MHz-960MHz 46.0(dBμV/m) quasi-peak

960MHz-1000MHz 54.0(dBμV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

Class B

Test Distance: 10m

30MHz -88MHz 29.5(dBμV/m) quasi-peak

88MHz-216MHz 33.1(dBμV/m) quasi-peak

216MHz-960MHz 35.6(dBμV/m) quasi-peak

960MHz-1000MHz 43.5(dBμV/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30MHz to1000MHz

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C

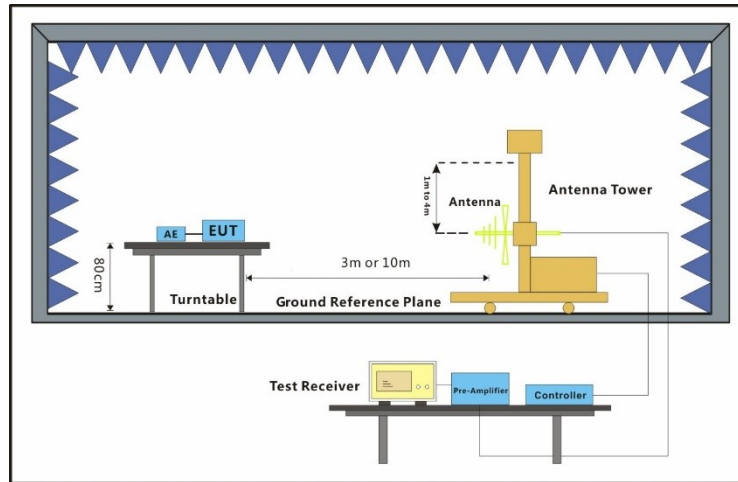
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	SA N77+GNSS+Mainboard

6.1.3 Test Setup Diagram

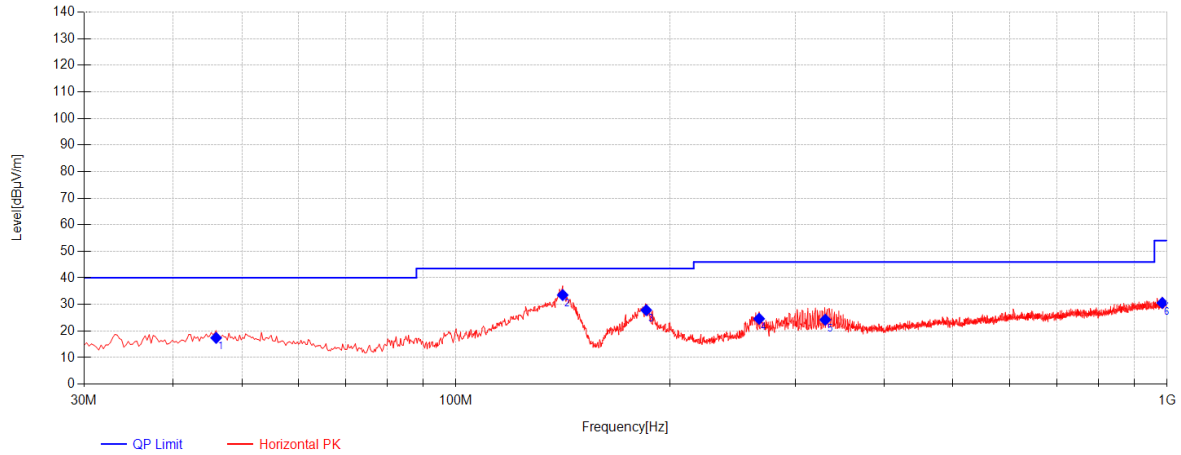


6.1.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

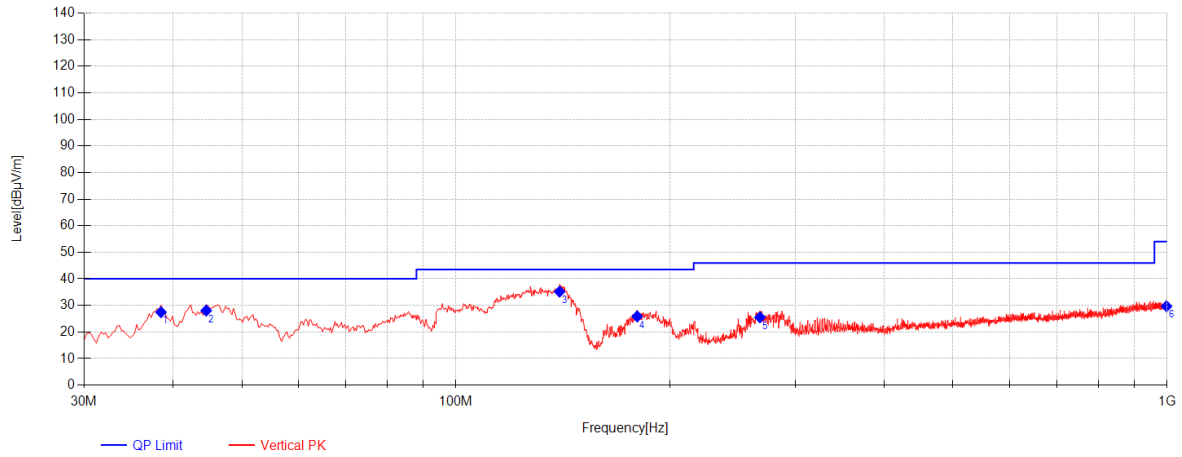
Remark: $\text{Level} = \text{Read Level} + \text{Cable Loss} + \text{Antenna Factor} - \text{Preamplifier Factor}$

Test Mode: 00; Polarity: Horizontal



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	46.005	38.06	20.40	-41.06	17.40	40.00	22.60	Horizontal
2	141.3075	54.32	19.05	-39.84	33.53	43.50	9.97	Horizontal
3	185.2	50.66	16.52	-39.33	27.85	43.50	15.65	Horizontal
4	266.9225	44.24	19.04	-38.67	24.61	46.00	21.39	Horizontal
5	330.7	42.24	20.13	-38.14	24.23	46.00	21.77	Horizontal
6	984.7225	36.87	27.49	-33.79	30.57	54.00	23.43	Horizontal

Test Mode: 00; Polarity: Vertical



Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Polarity
1	38.4875	50.02	18.65	-41.22	27.45	40.00	12.55	Vertical
2	44.55	49.26	19.89	-41.09	28.06	40.00	11.94	Vertical
3	139.8791	55.67	19.38	-39.87	35.18	43.50	8.32	Vertical
4	179.865	48.85	16.29	-39.29	25.85	43.50	17.65	Vertical
5	267.65	45.11	19.05	-38.66	25.50	46.00	20.50	Vertical
6	998.3025	35.28	28.10	-33.70	29.68	54.00	24.32	Vertical

6.2 Radiated Emissions (Above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4-2014

Limit:

Class B

Above 1GHz 74(dBμV/m) peak, 54(dBμV/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to 18000MHz

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C

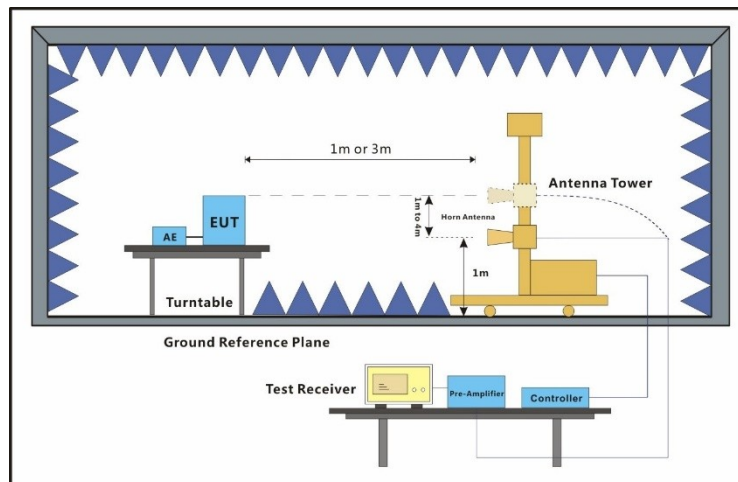
Humidity: 43 % RH

Atmospheric Pressure: 1001 mbar

6.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	SA N77+GNSS+Mainboard

6.2.3 Test Setup Diagram



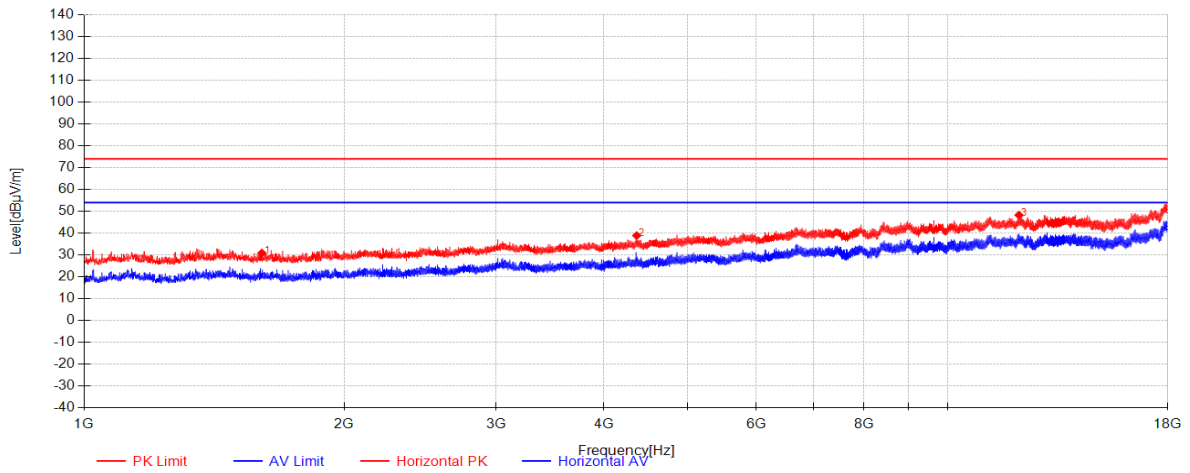
6.2.4 Measurement Procedure and Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

The red line show in graphic is the limit in standard used in this section.

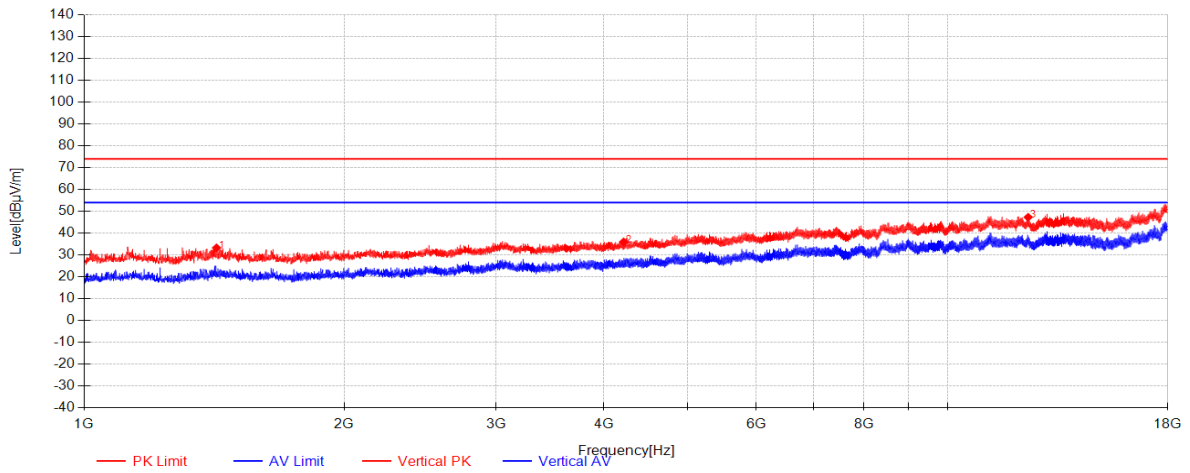
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Test Mode: 00; Polarity: Horizontal



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1606.05	54.11	25.84	-49.04	30.90	74.00	43.10	Horizontal
2	4364.3	53.56	31.86	-46.52	38.90	74.00	35.10	Horizontal
3	12097.175	46.25	38.99	-36.98	48.27	74.00	25.73	Horizontal

Test Mode: 00; Polarity: Vertical



Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Polarity
1	1423.3	55.95	26.56	-49.25	33.26	74.00	40.74	Vertical
2	4214.275	51.02	31.14	-46.19	35.98	74.00	38.02	Vertical
3	12396.375	46.40	39.09	-38.19	47.30	74.00	26.70	Vertical

7 Test Setup Photo

Radiated Emissions (30MHz-1GHz)



Radiated Emissions (Above 1GHz)





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8 EUT Constructional Details (EUT Photos)

Refer to Appendix_Photos of EUT Constructional Details for FC1N2419-01

- End of the Report -