REGULATORY COMPLIANCE REPORT - ADDENDUM

FCC CFR 47 Part 15 Subpart C 15.255
ISED RSS-210

Report No.: AIRI03-U5 Rev A

Company: Airvine Scientific

Model Name: 2041DC

REGULATORY COMPLIANCE ADDENDUM REPORT

Company Name: Airvine Scientific

Model Name: 2041DC

To: FCC CFR 47 Part 15 Subpart C 15.255 & ISED RSS-210

Test Report Serial No.: AIRI03-U5 Rev A

This report supersedes: NONE

Applicant: Airvine Scientific
1500 Wyatt Dr.
Santa Clara, California 95054
USA

Issue Date: 11th January 2024

This Test Report is Issued Under the Authority of:

MiCOM Labs, Inc.
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www.micomlabs.com

ACCREDITED
TESTING CERT #2381.01

MiCOM Labs is an ISO 17025 Accredited Testing Laboratory

Table of Contents

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1. ACCREDITATION, LISTINGS & RECOGNITION

1.1. TESTING ACCREDITATION

MiCOM Labs, Inc. is an accredited Electrical testing laboratory per the international standard ISO/IEC 17025:2017. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.01. MiCOM Labs test schedule is available at the following URL; http://www.a2la.org/scopepdf/2381-01.pdf

Accredited Laboratory

A2LA has accredited

MICOM LABS

Pleasanton, CA

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated April 2017*).

Presented this 14th day of January 2022.

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2381.01
Valid to February 29, 2024
Revised October 26, 2023

For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

1.2. RECOGNITION

MiCOM Labs, Inc is widely recognized for its wireless testing and certification capabilities. In addition to being recognized for Testing and Certification under Phase 2 Mutual Recognition Agreements (MRA) with Canada, Europe, United Kingdom and Japan, our international recognition includes Conformity Assessment Body (CAB) designation status under agreements with Asia Pacific (APEC) MRA Phase 1 countries giving acceptance of MiCOM Labs test reports. MiCOM Labs test reports are accepted globally.

Country	Recognition Body	Status	MRA Phase	Identification No.
USA	Federal Communications Commission (FCC)	TCB	-	US0159 Test Firm Designation#: US1084
Canada	Industry Canada (ISED)	FCB	APEC MRA 2	US0159 ISED#: 4143A
Japan	MIC (Ministry of Internal Affairs and Communication)	CAB	Japan MRA 2	RCB 210
	Japan Approvals Institute for Telecommunication Equipment (JATE)			
	VCCI	--	--	A-0012
Europe	European Commission	NB	EU MRA 2	NB 2280
United Kingdom	Department for Business, Energy & Industrial Strategy (BEIS)	AB	UK MRA 2	AB 2280
Mexico	Instituto Federal de Telecomunicaciones (IFT)	CAB	Mexico MRA 1	US0159
Australia	Australian Communications and Media Authority (ACMA)	CAB	APEC MRA 1	US0159
Hong Kong	Office of the Telecommunication Authority (OFTA)			
Korea	Ministry of Information and Communication Radio Research Laboratory (RRL)			
Singapore	Infocomm Development Authority (IDA)			
Taiwan	National Communications Commission (NCC) Bureau of Standards, Metrology and Inspection (BSMI)			
Vietnam	Ministry of Communication (MIC)			

TCB – Telecommunications Certification Bodies (TCB)
FCB – Foreign Certification Body
CAB – Conformity Assessment Body
NB – Notified Body
AB – Approved Body
MRA – Mutual Recognition Agreement
MRA PhasePhase I - recognition for product testing
Phase II – recognition for both product testing and certification

1.3. PRODUCT CERTIFICATION

MiCOM Labs, Inc. is an accredited Product Certification Body per the international standard ISO/IEC 17065:2012. The company is accredited by the American Association for Laboratory Accreditation (A2LA) www.a2la.org test laboratory number 2381.02. MiCOM Labs test schedule is available at the following URL; http://www.a2la.org/scopepdf/2381-02.pdf

Accredited Product Certification Body

A2LA has accredited

MiCOM LABS

Pleasanton, CA

This product certification body is accredited in accordance with the recognized International Standard ISO/IEC 17065:2012 *Requirements for bodies certifying products, processes and services*. This product certification body also meets the *A2LA R322 – Specific Requirements – Notified Body Accreditation Requirements* and *A2LA R308 - Specific Requirements - ISO-IEC 17065 - Telecommunication Certification Body Accreditation Program*. This accreditation demonstrates technical competence for a defined scope and the operation of a management system.

Presented this 14th day of January 2022

Mr. Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number 2381.02
Valid to February 29, 2024
Revised October 26, 2023

For the product certification schemes to which this accreditation applies, please refer to the organization's Product Certification Scope of Accreditation.

United States of America – Telecommunication Certification Body (TCB)
Industry Canada – Certification Body, CAB Identifier – US0159
Europe – Notified Body (NB), NB Identifier - 2280
UK – Approved Body (AB), AB Identifier - 2280
Japan – Recognized Certification Body (RCB), RCB Identifier - 210

2. DOCUMENT HISTORY

Document History		
Revision	Date	Comments
Draft	3rd January 2024	For client review Initially device tested under AIRI02-U5. After release the client requested the addition of two channels (5 & 6). This report shows additional results to prove channels 5 & 6 are compliant.
Rev A	11th January 2024	Initial Release
Initial report		
AIRI02-U5 Rev A	3rd February 2023	Original Test Report

In the above table the latest report revision will replace all earlier versions.

3. TEST RESULT CERTIFICATE

Manufacturer:	Airvine Scientific 1500 Wyatt Dr. Santa Clara California 95054 USA	**Tested By:**	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA
Model:	2041DC	**Telephone:**	+1 925 462 0304
Equipment Type:	802.11ad 60GHz Wireless Backhaul	**Fax:**	+1 925 462 0306
S/N's:	Dev01		
Test Date(s):	18th December 2023	**Website:**	www.micomlabs.com

STANDARD(S)	TEST RESULTS
FCC CFR 47 Part 15 Subpart C 15.255 & ISED RSS-210	**EQUIPMENT COMPLIES**

MiCOM Labs, Inc. tested the equipment mentioned in accordance with the requirements set forth in the above standards. Test results indicate that the equipment tested is capable of demonstrating compliance with the requirements as documented within this report.

Notes:

1. This document reports conditions under which testing was conducted and the results of testing performed.

2. Details of test methods used have been recorded and kept on file by the laboratory.

3. Test results apply only to the item(s) tested.

A2LA ACCREDITED
TESTING CERT #2381.01

Approved & Released for MiCOM Labs, Inc. by:

Graeme Grieve
Quality Manager MiCOM Labs, Inc.

Gordon Hurst
President & CEO MiCOM Labs, Inc.

4. REFERENCES AND MEASUREMENT UNCERTAINTY

4.1. Normative References

REF.	PUBLICATION	YEAR	TITLE
I	KDB 662911 D01, D02, D03	D01 Oct 2013, D02 Oct 2011, D03 Oct 2020	Guidance for measurement of output emission of devices that employ single transmitter with multiple outputs or systems with multiple transmitters operating simultaneously in the same frequency band. 662911 D01 Multiple Transmitter Output v02r01, 662911 D02 MIMO with Cross Polarized Antenna v01, 662911 D03 MIMO Antenna Gain Measurement v01, OET 13TR1003 Directional Gain of 802 11 MIMO with CDD 04 05 2013
II	A2LA	22nd June 2022	R105 - Requirement's When Making Reference to A2LA Accreditation Status
III	ANSI C63.10	2020	American National Standard for Testing Unlicensed Wireless Devices
IV	ANSI C63.4	2014	American National Standards for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
V	M 3003	EDITION 4 Oct 2019	Expression of Uncertainty and Confidence in Measurements
VI	RSS-Gen Issue 5	Amendment 1,2 (Feb 2021)	General Requirements for Compliance of Radio Apparatus. With Amendments 1: March 2019 and 2: Feb 2021.
VII	FCC 47 CFR Part 2.1033	May 2021	FCC requirements and rules regarding photographs and test setup diagrams.
VIII	FCC 47 CFR Part 15.255	Apr 2020	FCC requirements and rules regarding operation within the band 57-71 GHz.
IX	FCC 47 CFR Part 15.209	Oct 1997	FCC Requirements and rules regarding general radiated emission limits.
X	KDB 842590	April 2021	Millimeter wave device measurement procedures
XI	RSS-210 Issue 10	Dec 2019	Licence-Exempt Radio Apparatus: Category 1 Equipment. Annex J

4.2. Test and Uncertainty Procedure

Conducted and radiated emission measurements were conducted in accordance with American National Standards Institute ANSI C63.4, listed in the Normative References section of this report.

Measurement uncertainty figures are calculated in accordance with ETSI TR 100 028 Parts 1 and 2.

Measurement uncertainties stated are based on a standard uncertainty multiplied by a coverage factor k = 2, providing a level of confidence of approximately 95 % in accordance with UKAS document M 3003 listed in the Normative References section of this report.

5. PRODUCT DETAILS AND TEST CONFIGURATIONS

5.1. Technical Details

Details	Description
Purpose:	Test of the Airvine Scientific 2041DC to FCC CFR 47 Part 15 Subpart C 15.255; Operation within the band 57-71 GHz. And ISED RSS-210; Licence-Excempt Radio Apparatus: Category 1 Equipment.
Applicant:	Airvine Scientific 1500 Wyatt Dr. Santa Clara CA 95054 United States of America
Manufacturer:	AQS
Laboratory performing the tests:	MiCOM Labs, Inc. 575 Boulder Court Pleasanton California 94566 USA
Test report reference number:	AIRI03-U5
Date EUT received:	27th November 2023
Standard(s) applied:	FCC CFR 47 Part 15 Subpart C 15.255 & ISED RSS-210
Dates of test (from - to):	18th December 2023
No of Units Tested:	1
Product Family Name:	WaveTunnel
Model(s):	2041DC
Location for use:	Indoors
Declared Frequency Range(s):	57000 - 71000 MHz;
Type of Modulation:	16QAM
EUT Modes of Operation:	802.11ad
Declared Nominal Output Power (dBm):	+40 dBm
Transmit/Receive Operation:	Transceiver
Rated Input Voltage and Current:	Input: 100-240V AC 50/60 Hz 2A Output: 48V DC 3.34A
Operating Temperature Range:	0°C to +40°C
ITU Emission Designator:	2G16D2D (2.16GHz BW, Single Channel, QPSK/QAM)
Equipment Dimensions:	10.5 / 9.0 / 4.0 in
Weight:	5.0 lbs
Hardware Rev:	Ver 10
Software Rev:	1.0.0.23

5.2. Scope Of Test Program

Airvine Scientific 2041DC

The scope of the test program was to test the Airvine Scientific 2041DC in the frequency ranges 57 – 71 GHz; for compliance against the following specification:

FCC CFR 47 Part 15 Subpart C 15.255
Operation within the band 57-71 GHz.

ISED RSS-210 Issue 10
License-Exempt Radio Apparatus: Category 1 Equipment; Annex J: Devices operating in the band 57-71 GHz.

5.3. Equipment Model(s) and Serial Number(s)

Type (EUT/ Support)	Equipment Description	Manufacturer	Model No.	Serial No.
EUT	802.11ad 60 GHz Wireless Backhaul	AQS	2041DC	Dev01
Support	Laptop	Dell	--	--

5.4. Antenna Details

Type	Manufacturer	Model	Family	Gain (dBi)	BF Gain	Dir BW	X-Pol	Frequency Band (MHz)
integral	Sivers Semiconductors	BFM06010	PCB	22.0	-	TBS	-	57 – 71 GHz

BF Gain - Beamforming Gain
Dir BW - Directional BeamWidth
X-Pol - Cross Polarization

5.5. Cabling and I/O Ports

Port Type	Port Description	Qty	Screened (Yes/ No)	Length
Ethernet	RJ-45	4	N	>3m
USB	microUSB	1	N	<5m
DC Input	DC (4-Pin)	1	N	1.2m

5.6. Test Configurations

Results for the following configurations are provided in this report:

Operational Mode(s) (802.11a/b/g/n/ac)	Data Rate with Highest Power MBit/s	Channel Frequency (GHz)		
		Low	Mid	High
57.00 – 71.00 GHz				
802.11ad	1000.00	66.96	--	69.12

The EUT consists of two 60 GHz antennas broadcasting in opposite directions, the worst case of the two was measured and reported.

5.7. Equipment Modifications

The following modifications were required to bring the equipment into compliance:
1. NONE

5.8. Deviations from the Test Standard

The following deviations from the test standard were required in order to complete the test program:
1. NONE

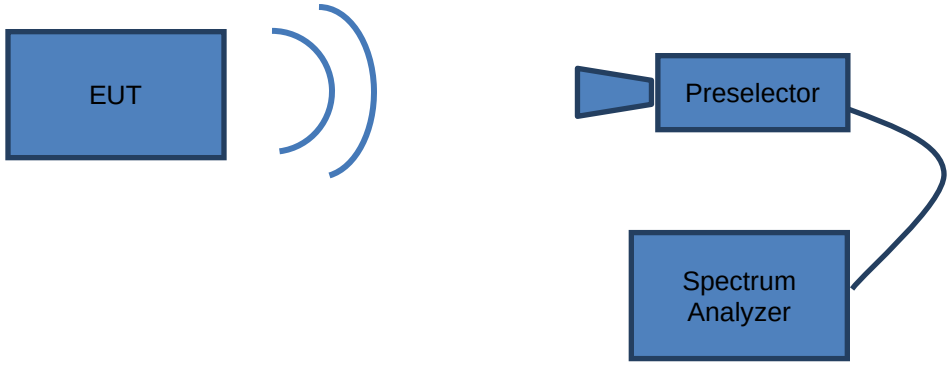
6. TEST SUMMARY

List of Measurements

Test Header	Result	Data Link
6 dB & 99% Bandwidth	See MiCOM Report AIRI02-U5	
Output Power		
Peak EIRP	Complies	View Data
Average EIRP	Complies	View Data
Conducted Output Power	Complies	View Data
Spurious Emissions	See MiCOM Report AIRI02-U5	
Frequency Stability	See MiCOM Report AIRI02-U5	

7. TEST EQUIPMENT CONFIGURATION(S)

7.1. 60 GHz Radiated



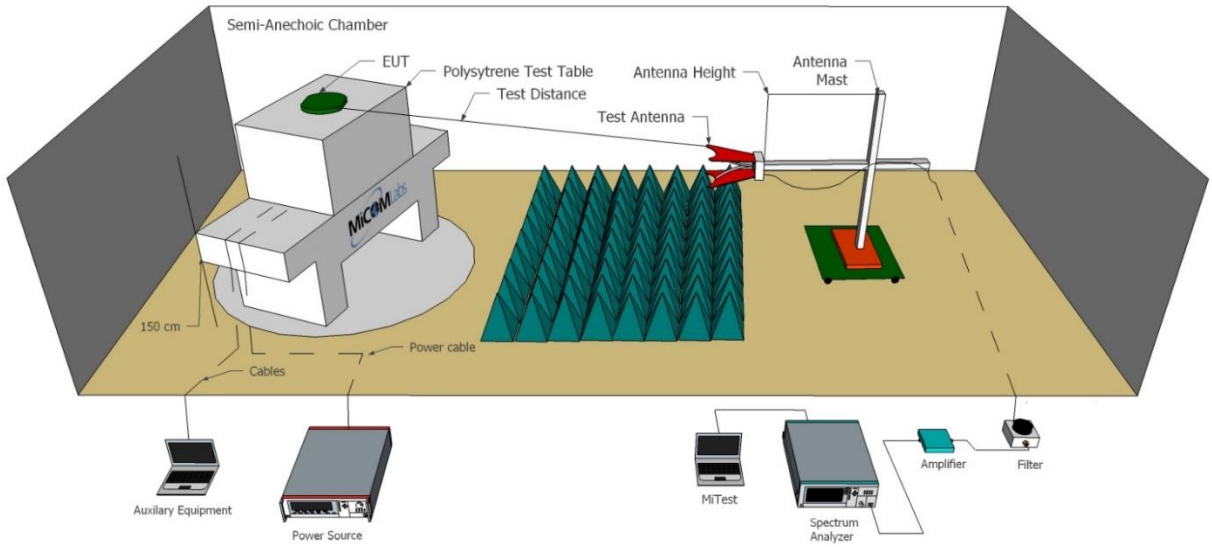
A full system calibration was performed on the test station and any resulting system losses (or gains) were taken into account in the production of all final measurement data.

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
249	Thermocouple; Resistance Thermometer	Thermotronics	GR2105-02	9340 #2	29 Jun 2024
408	USB to GPIB interface	National Instruments	GPIB-USB HS	14C0DE9	Not Required
266	10 Hz to 50 GHz MXA Signal Analyzer	Keysight	N9020B	MY60110791	25 Jul 2024
265	50-80 GHz Harmonic Mixer	Keysight	M1970V-002	MY61370030	15 Jul 2024
267	75-110 GHz Harmonic Mixer	Keysight	M1970W	MY61370019	22 Sep 2024
	Barometer/Thermometer	Digi Sense	68000-49	170871375	4 Jan 2024
111	V-Band Standard Gain Horn	Millitech	SHG-15	0537974	25 March 2024
110	U-Band Standard Gain Horn	Millitech	SHG-15	--	25 March 2024
550	W-Band Standard Gain Horn	MPI	261F/387	--	25 March 2024
451	Precision SMA Male RG-402 coax	Fairview Microwave	SCA1814-0101-72	--	Cal When Used
452	Precision SMA Male RG-402 coax	Fairview Microwave	SCA1814-0101-72	--	Cal When Used

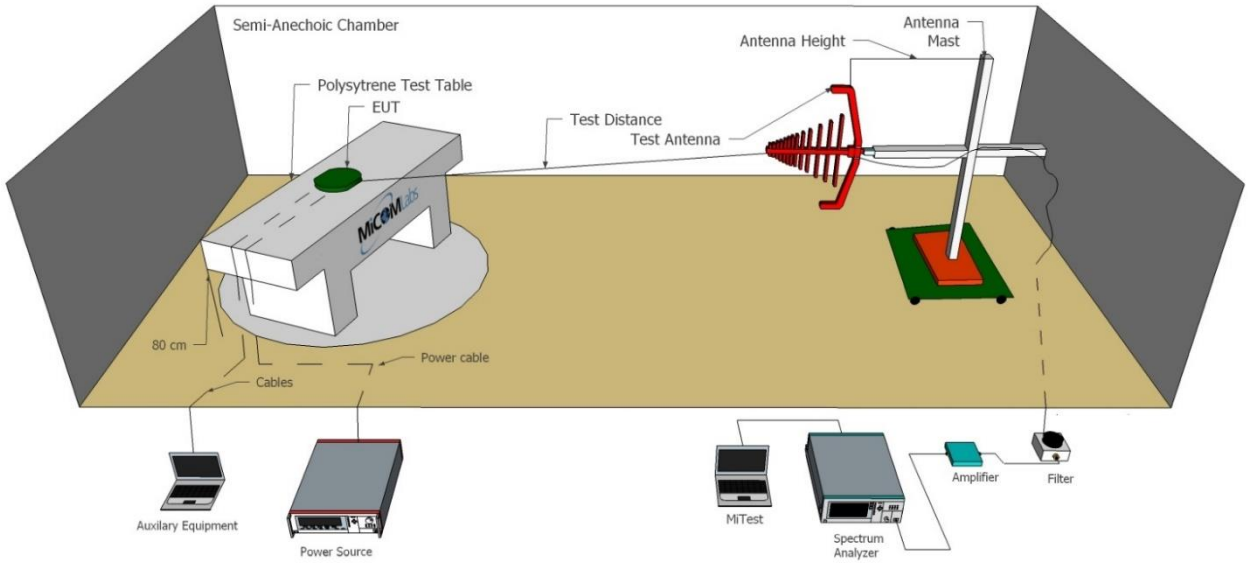
7.2. Radiated Emissions

The following tests were performed using the radiated test set-up shown in the diagram below. Radiated emissions above and below 1GHz.

Radiated Emissions Above 1GHz Test Setup



Radiated Emissions Below 1GHz Test Setup



Test Equipment Utilized

Asset#	Description	Manufacturer	Model#	Serial#	Calibration Due Date
170	Video System Controller for Semi Anechoic Chamber	Panasonic	WV-CU101	04R08507	Not Required
298	3M Radiated Emissions Chamber Maintenance Check	MiCOM	3M Chamber	298	11 Jan 2024
338	Sunol 30 to 3000 MHz Antenna	Sunol	JB3	A052907	7 Dec 2024
373	26III RMS Multimeter	Fluke	Fluke 26 series III	76080720	29 Dec 2024
397	Amp 10 - 2500MHz	MiCOM Labs	Amp 10 - 2500 MHz	NA	27 Dec 2024
399	ETS 1-18 GHz Horn Antenna	ETS	3117	00154575	7 Dec 2024
406	Amplifier for Radiated Emissions	MiCOM Labs	40dB 1 to 18GHz Amp	0406	2 Nov 2024
410	Desktop Computer	Dell	Inspiron 620	WS38	Not Required
411	Mast/Turntable Controller	Sunol Sciences	SC98V	060199-1D	Not Required
412	USB to GPIB Interface	National Instruments	GPIB-USB HS	11B8DC2	Not Required
413	Mast Controller	Sunol Science	TWR95-4	030801-3	Not Required
415	Turntable Controller	Sunol Sciences	Turntable Controller	None	Not Required
416	Gigabit ethernet filter	ETS-Lingren	Gigafoil 260366	None	Not Required
447	MiTest Rad Emissions Test Software	MiCOM	Version 1.0	447	Not Required
462	Schwarzbeck cable from Antenna to Amplifier.	Schwarzbeck	AK 9513	462	18 Sep 2024
463	Schwarzbeck cable from Amplifier to Bulkhead.	Schwarzbeck	AK 9513	463	18 Sep 2024
464	Schwarzbeck cable from Bulkhead to Receiver	Schwarzbeck	AK 9513	464	18 Sep 2024
480	Cable - Bulkhead to Amp	SRC Haverhill	157-3050360	480	18 Sep 2024
481	Cable - Bulkhead to Receiver	SRC Haverhill	151-3050787	481	18 Sep 2024
510	Barometer/Thermometer	Digi Sense	68000-49	170871375	4 Jan 2026
554	Precision SMA Cable	Fairview Microwave	SCE18060101-400CM	554	18 Sep 2024
555	Rhode & Schwarz Receiver (Firmware Version : 2.00 SP1)	Rhode & Schwarz	ESW 44	101893	28 Jun 2024

8. MEASUREMENT AND PRESENTATION OF TEST DATA

The measurement and graphical data presented in this test report was generated automatically using state-of-the-art technology creating an easy-to-read report structure. Numerical measurement data is separated from supporting graphical data (plots) through hyperlinks. Numerical measurement data can be reviewed without scrolling through numerous graphical pages to arrive at the next data matrix.

Plots have been relegated into the Appendix 'Graphical Data'.

Test and report automation was performed by MiTest. MiTest is an automated test system developed by MiCOM Labs. MiTest is the first cloud based modular test system enabling end-to-end automation of regulatory compliance testing for conducted RF testing.

The MiCOM Labs "MiTest" Automated Test System" (Patent Pending)

9. TEST RESULTS

9.1. Output Power

Test Conditions for Fundamental Emission Measurement			
Standard:	FCC CFR 47:15.255 RSS-210	**Ambient Temp. (ºC):**	24.0 - 27.5
Test Heading:	Output Power	**Rel. Humidity (%):**	32 - 45
Standard Section(s):	15.255 (c) Annex J.2.2	**Pressure (mBars):**	999 - 1001
Reference Document(s):	See Normative References		

Test procedure for Fundamental Emission Measurement
For peak power measurements the spectrum analyzer peak detector trace was integrated over the 99% bandwidth.

For average power measurements the spectrum analyzer sample detector trace was video averaged over 100 sweeps and the trace integrated over the 99% bandwidth.
The integrated power is used to calculate the field strength using this equation from section 9 of ANSI 63.10:

$$E = 126.8 - 20\ \log\lambda + P - G$$

Where:
E is the field strength of the emission at the measurement distance, in dBµV/m
P is the power measured at the output of the test antenna, in dBm
λ is the wavelength of the emission under investigation $[300/f_{MHz}]$, in m
G is the gain of the test antenna, in dBi

The EIRP is then calculated using this equation:

$$EIRP = E_{Meas} + 20\ \log(d_{Meas}) - 104.7$$

Where:
EIRP is the equivalent isotropically radiated power, in dBm
E_{Meas} is the field strength of the emission at the measurement distance, in dBµV/m
d_{Meas} is the measurement distance, in m

And the conducted power calculated using:

$$P_{Cond} = EIRP - G_{EUT}$$

Testing was performed under ambient conditions at nominal voltage only.

Test configuration and setup used for the measurement was per the 60 GHz Radiated Test Set-up specified in this document.
Supporting Information:

(C) Within the 57-71 GHz band, emission levels shall not exceed the following equivalent isotropically radiated power (EIRP):
- (1) Products other than fixed field disturbance sensors and short-range devices for interactive motion sensing shall comply with one of the following emission limits, as measured during the transmit interval:
  - (i) The average power of any emission shall not exceed 40 dBm and the peak power of any emission shall not exceed 43 dBm; or
  - (ii) For fixed point-to-point transmitters located outdoors, the average power of any emission shall not exceed 82 dBm, and shall be reduced by 2 dB for every dB that the antenna gain is less than 51 dBi. The peak power of any emission shall not exceed 85 dBm, and shall be reduced by 2 dB for every dB that the antenna gain is less than 51 dBi.
    - (A) The provisions in the paragraph (c) for reducing transmit power based on antenna gain shall not require that the power levels be reduced below the limits specified in paragraph (c)(1)(i) of this section.
    - (B) The provisions of section 15.204(c)(2) and (4) that permit the use of different antennas of the same type and of equal or less directional gain do not apply to intentional radiator systems operating under this provision. In lieu thereof, intentional radiator systems shall be certified using the specific antenna(s) with which the system will be marketed and operated. Compliance testing shall be performed using the highest gain and the lowest gain antennas for which certification is sought and with the intentional radiated operated at its maximum available output power level. The responsible party, as defined in section 2.909 of this chapter, shall supply a list of acceptable antennas with the application for certification.

(E) Except as specified in paragraph (e)(1) of this section, the peak transmitter conducted output power shall not exceed 500 mW. Depending on the gain of the antenna, it may be necessary to operate the intentional radiator using a lower peak transmitter output power in order to comply with the EIRP limits specified in paragraph (c) of this section.

Equipment Configuration for Peak Output Power			
Variant:	802.11ad	**Duty Cycle (%):**	100.0
Data Rate:	1000.00 MBit/s	**Antenna Gain (dBi):**	22.00
Modulation:	16QAM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Output Power (dBm) Port(s)				Highest Peak EIRP	Limit	Margin	EUT Power Setting
MHz	Left	Right			dBm	dBm	dB	
66960.0	39.54	37.07	--	--	39.54	43.00	-3.46	8
69120.0	41.02	40.21	--	--	41.02	43.00	-1.98	8

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

Equipment Configuration for Average Output Power			
Variant:	802.11ad	**Duty Cycle (%):**	100.0
Data Rate:	1000.00 MBit/s	**Antenna Gain (dBi):**	22.00
Modulation:	16QAM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Output Power (dBm)				Highest Average EIRP	Limit	Margin	EUT Power Setting
	Port(s)							
MHz	Left	Right	--	--	dBm	dBm	dB	
66960.0	28.43	26.00	--	--	28.43	40.00	-11.57	8
69120.0	30.00	29.17	--	--	30.00	40.00	-10.00	8

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASURING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

Equipment Configuration for Conducted Output Power			
Variant:	802.11ad	**Duty Cycle (%):**	100.0
Data Rate:	1000.00 MBit/s	**Antenna Gain (dBi):**	22.00
Modulation:	16QAM	**Beam Forming Gain (Y)(dB):**	Not Applicable
TPC:	Not Applicable	**Tested By:**	JK
Engineering Test Notes:			

Test Measurement Results

Test Frequency	Measured Output Power (dBm) Port(s)				Highest Conducted Power	Limit	Margin	EUT Power Setting
MHz	Left	Right	--	--	mW	mW	mW	
66960.0	56.75	32.14	--	--	56.75	500.00	-443.25	8
69120.0	79.80	66.22	--	--	79.80	500.00	-420.20	8

Traceability to Industry Recognized Test Methodologies	
Work Instruction:	WI-01 MEASUREING RF OUTPUT POWER
Measurement Uncertainty:	±1.33 dB

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