

HEADQUARTERS: 914 WEST PATAPSCO AVENUE • BALTIMORE, MARYLAND 21230 • PHONE (410) 354-3300 • FAX (410) 354-3313

November 7, 2019

Amimon 26 Zarhin St, POBox 2308 Raanana,4366250, Israel

Dear Gabi Nocham,

Enclosed is the EMC Wireless test report for compliance testing of the Amimon, AMN42012 as tested to the requirements of Title 47 of the CFR, Ch. 1 (10-1-06 ed.), Title 47 of the CFR, Part 15.407, Subpart E (UNII 3).

Thank you for using the services of Eurofins | MET Labs, Inc. If you have any questions regarding these results or if MET can be of further service to you, please feel free to contact me.

Sincerely yours, EUROFINS | MET LABS, INC.

Huna

Joel Huna Documentation Department

Reference: (\Amimon\ EMC101258A-FCC407 UNII 3 Rev. 5)

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Electromagnetic Compatibility Criteria Test Report

for the

Amimon Model AMN42012

Tested under The FCC Certification Rules contained in Title 47 of the CFR 15.407 Subpart E

MET Report: EMC101258A-FCC407 UNII 3 Rev. 5

November 7, 2019

Prepared For:

Amimon 26 Zarhin St, POBox 2308 Raanana,4366250, Israel

> Prepared By: Eurofins | MET Labs, Inc. 914 West Patapsco Avenue, Baltimore, MD 21230



Electromagnetic Compatibility Introduction CFR Title 47, Part 15.407 Subpart E

Electromagnetic Compatibility Criteria Test Report

for the

Amimon Model AMN42012

Tested under The FCC Certification Rules contained in Title 47 of the CFR 15.407 Subpart E

Donald Salguero, Project Engineer Electromagnetic Compatibility Lab

bel Huna

Joel Huna Documentation Department

Engineering Statement: The measurements shown in this report were made in accordance with the procedures indicated, and the emissions from this equipment were found to be within the limits applicable. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them. It is further stated that upon the basis of the measurements made, the equipment tested is capable of operation in accordance with the requirements of 15.407 of the FCC Rules under normal use and maintenance.

John W. Mason

John Mason, Director, Electromagnetic Compatibility Lab



Electromagnetic Compatibility Introduction CFR Title 47, Part 15.407 Subpart E

Report Status Sheet

Revision	Report Date	Reason for Revision	
Ø	February 28, 2019	Initial Issue.	
1	March 26, 2019	TCB Comments.	
2	June 17, 2019	Customer Requested Updates.	
3	August 30, 2019	TCB Comments.	
4	October 15, 2019	TCB Comments	
5	November 7, 2019	TCB Comments	



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Amimon AMN42012

AC	Alternating Current
ACF	Antenna Correction Factor
Cal	Calibration
d	Measurement Distance
dB	Decibels
dBμA	Decibels above one microamp
dBμV	Decibels above one microvolt
dBμA/m	Decibels above one microamp per meter
dBµV/m	Decibels above one microvolt per meter
DC	Direct Current
Е	Electric Field
DSL	Digital Subscriber Line
ESD	Electrostatic Discharge
EUT	Equipment Under Test
f	Frequency
FCC	Federal Communications Commission
GRP	Ground Reference Plane
Н	Magnetic Field
НСР	Horizontal Coupling Plane
Hz	Hertz
IEC	International Electrotechnical Commission
kHz	Kilohertz
kPa	Kilopascal
kV	Kilovolt
LISN	Line Impedance Stabilization Network
MHz	Megahertz
μΗ	Microhenry
μ	Microfarad
μs	Microseconds
PRF	Pulse Repetition Frequency
RF	Radio Frequency
RMS	Root-Mean-Square
TWT	Traveling Wave Tube
V/m	Volts per meter
VCP	Vertical Coupling Plane

List of Terms and Abbreviations



Amimon AMN42012 Electromagnetic Compatibility Executive Summary CFR Title 47, Part 15.407 Subpart E

I. Executive Summary



A. Purpose of Test

An EMC evaluation was performed to determine compliance of the Amimon AMN42012, with the requirements of Part 15, §15.407. All references are to the most current version of Title 47 of the Code of Federal Regulations in effect. In accordance with §2.1033, the following data is presented in support of the Certification of the AMN42012. Amimon should retain a copy of this document which should be kept on file for at least two years after the manufacturing of the AMN42012, has been **permanently** discontinued.

B. Executive Summary

The following tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, §15.407, in accordance with Amimon, purchase order number 18000496. All tests were conducted using measurement procedure ANSI C63.10-2013.

FCC Reference	Description	Results
§15.203	Antenna Requirement	Compliant
§15.403(i)	26 dB Bandwidth	Compliant
§15.407 (a)(3)	Maximum Conducted Output Power	Compliant
§15.407 (a)(3)	Maximum Power Spectral Density	Compliant
§15.407 (b)(4)& (6 - 7)	Undesirable Emissions	Compliant
§15.407(b)(6)	Conducted Emission Limits	Compliant
§15.407(f)	RF Exposure	Compliant

 Table 1. Executive Summary of EMC Part 15.407 ComplianceTesting



Amimon AMN42012 Electromagnetic Compatibility Equipment Configuration CFR Title 47, Part 15.407 Subpart E

II. Equipment Configuration



A. Overview

Eurofins | MET Labs, Inc. was contracted by Amimon to perform testing on the AMN42012, under Amimon's purchase order number 18000496.

This document describes the test setups, test methods, required test equipment, and the test limit criteria used to perform compliance testing of the Amimon AMN42012.

The results obtained relate only to the item(s) tested.

Model(s) Tested:	AMN42012		
Model(s) Covered:	AMN42012		
	Primary Power: 5 VDC input voltage		
	FCC ID: VQSAMN42012		
EUT	Type of Modulations:	OFDM, 16QAM, QPSK	
Specifications:	Equipment Code:	NII	
	Max. RF Output Power:	21.25dBm	
	EUT Frequency Ranges: 5755-5795MHz		
Analysis:	The results obtained relate only to the item(s) tested.		
	Temperature: 15-35° C		
Environmental Test Conditions:	Relative Humidity: 30-60%		
	Barometric Pressure: 860-1060 mbar		
Evaluated by:	Donald Salguero		
Report Date(s):	June 17, 2019		

 Table 2. EUT Summary

B. References

CFR 47, Part 15, Subpart E	Unlicensed National Information Infrastructure Devices (UNII)	
ANSI C63.4:2014	Methods and Measurements of Radio-Noise Emissions from Low-Voltage Electrical And Electronic Equipment in the Range of 9 kHz to 40 GHz	
ISO/IEC 17025:2017	General Requirements for the Competence of Testing and Calibration Laboratories	
ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices	

 Table 3. References



C. Test Site

All testing was performed at Eurofins | MET Labs, Inc., 914 West Patapsco Avenue, Baltimore, MD 21230. All equipment used in making physical determinations is accurate and bears recent traceability to the National Institute of Standards and Technology.

Radiated Emissions measurements were performed in a $\frac{3}{2}$ meter semi-anechoic chamber (equivalent to an Open Area Test Site). In accordance with $\frac{2.948(a)(3)}{a}$, a complete site description is contained at Eurofins | MET Labs.

D. Description of Test Sample

The Amimon AMN42012, Equipment Under Test (EUT), is a wireless HD Video system at 5GHz with zerolatency. It consists of 2 companion devices:

VDU – Video Display Unit.

VSU receives a Video signal from an external source and up-mixes it using a proprietary protocol to 5GHz similar to IEEE802.11 a/n.

The VDU receives the 5GHz signal and down-converts it to a HDMI, SDI or other video signal. The devices operates at 40MHz

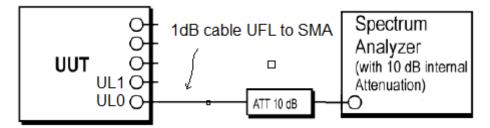


Figure 1. Block Diagram of Test Configuration, Conducted Emmissions (as modules)



Figure 2. Block Diagram of Test Configuration, Radiated Emmissions (as modules)



E. Equipment Configuration

The EUT was set up as outlined in Figure 1, Block Diagram of Test Setup. All cards, racks, etc., incorporated as part of the EUT is included in the following list.

Ref. ID	Slot #	Name / Description	Model Number	Part Number	Serial Number	Rev. #
AMN42012		AMN42012	AMN42012			
WSS002		2dBi omni dipole Antenna	WSS002			
AMN5330		11dBi directional Antenna	AMN5330			

Table 4. Equipment Configuration

F. Support Equipment

Support equipment necessary for the operation and testing of the EUT is included in the following list.

Ref. ID	Name / Description	Manufacturer	Model Number	*Customer Supplied Calibration Data
	1dB cable UFL to RP-SMA			
	5V AC adapter			
	HDMI cables			
	Draco Tx Balcony			
	AMN42012 Balcony			
	Video generator			
	screen			
	12V AC adapter			
	USB cables (long and short)			
	Debug board TX			
	Debug board RX			
	Laptop			
	SMA to RP-SMA adapters			
The 'Custom the customer	er Supplied Calibration Data' column wil	be marked as either not applical	ble, not available, or will conta	in the calibration date supplied by

 Table 5. Support Equipment



Ref. ID	Port name on EUT	Cable Description or reason for no cable	Qty	Length as tested (m)	Max Length (m)	Shielded? (Y/N)	Termination Box ID & Port Name
1	J1, J2, J3, J4, J6	UFL connectors for RF ports	5				
2	J38	Board to board interface connector (to balcony)	1				
3	J37	Debug connector	1				
4		Balcony board connecting to J38					
5		UFL to RP-SMA cables	5	10cm		Yes	
6		Debug board connecting to J37					

G. Ports and Cabling Information

Table 6. Ports and Cabling Information

H. Mode of Operation

The devices can be set to TechMode and the RF signal is simulated internally

The VDU has a duty cycle of 100% at TechMode.

For radiated emissions the devices will be tested as modules.

For conducted measurements and DFS it is suggested to use with the balcony board to enable use of video and ease of testing.

TECH mode is enabled by simple GUI provided by AMIMON's 'AppCom' Tool or TechTool.

The tool enables setting the EUT to Transmit or Receive modes. It controls the center channel frequency, the operating channel bandwidth, and the TX channel power.

A complete description of operation is detailed in 'How to use AppCom Regulation control.doc' file

I. Method of Monitoring EUT Operation

Feedback from the debug window can provide information on device performance All other parameters will be measured by RF equipment

J. Modifications

a) Modifications to EUT

No modifications were made to the EUT.

b) Modifications to Test Standard

No modifications were made to the test standard.

K. Disposition of EUT

The test sample including all support equipment submitted to the Electro-Magnetic Compatibility Lab for testing was returned to Amimon upon completion of testing.



Amimon AMN42012 Electromagnetic Compatibility Intentional Radiators CFR Title 47, Part 15.407 Subpart E

III. Electromagnetic Compatibility Criteria for Intentional Radiators



Amimon AMN42012

Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.203 Antenna Requirement

Test Requirement: § 15.203: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

The structure and application of the EUT were analyzed to determine compliance with Section 15.203 of the Rules. Section 15.203 states that the subject device must meet at least one of the following criteria:

- a.) Antenna must be permanently attached to the unit.
- b.) Antenna must use a unique type of connector to attach to the EUT.
- c.) Unit must be professionally installed. Installer shall be responsible for verifying that the correct antenna is employed with the unit.

Results: The EUT as tested is compliant the criteria of §15.203, EUT uses a unique type of connector.

Name / Description	Model Number
2dBi omni dipole Antenna	WSS002
11dBi directional Antenna	AMN5330

Table 7. Antenna list

Test Engineer(s): Donald Salguero

Test Date(s): February 13, 2018



Electromagnetic Compatibility Criteria for Intentional Radiators

- § 15. 403(i) 26 dB Bandwidth
- § 15. 407(e) 6 dB Bandwidth

Test Requirements: § 15.403(i): For purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

§ 15.403 (e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Test Procedure:26dB Bandwidth:
The transmitter was set to low, mid, and high operating frequencies at the highest output power
and connected to the spectrum analyzer through an attenuator. The bandwidth of the
fundamental frequency was measured with the spectrum analyzer using a RBW approximately
equal to 1% of the total emission bandwidth, VBW > RBW. The 26 dB Bandwidth was
measured and recorded.

6dB Bandwidth

The transmitter was set to low, mid, and high operating frequencies at the highest output power and connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured with the spectrum analyzer using a RBW equal to 100kHz, VBW > 3xRBW. The 6 dB Bandwidth was measured and recorded.

Test Results The 26 dB Bandwidth and 6dB Bandwidth was compliant with the requirements of this section.

Test Engineer(s): Donald Salguero

Test Date(s): December 18, 2018

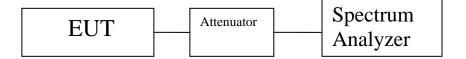


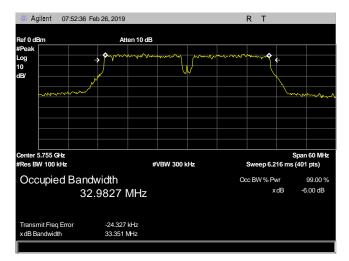
Figure 3. Occupied Bandwidth, Test Block Diagram

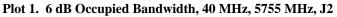


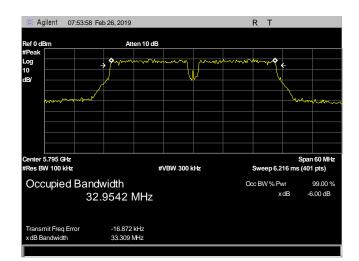
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Center Frequency (MHz)	26dB Bandwidth (MHz)	6dB Bandwidth (MHz)
5755	39.211	33.351
5795	39.163	33.309

Table 8. Occupied Channel Bandwidth, Test Results



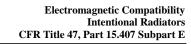


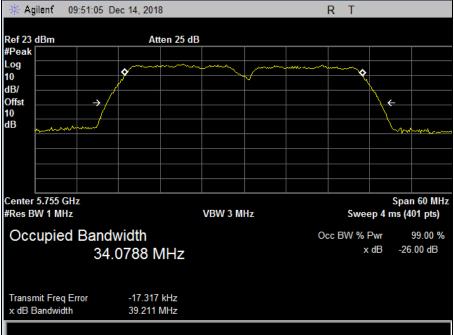


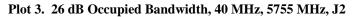
Plot 2. 6 dB Occupied Bandwidth, 40 MHz, 5755 MHz, J2

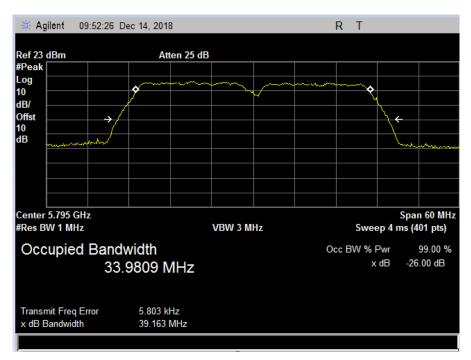


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Plot 4. 26 dB Occupied Bandwidth, 40 MHz, 5795 MHz, J2



Electromagnetic Compatibilit
Intentional Radiator
CFR Title 47, Part 15.407 Subpart 1

Electromagnetic Compatibility Criteria for Intentional Radiators

Duty Cycle

Amimon AMN42012

Test Procedure: The EUT was connected to a spectrum analyzer and was ran at the maximum achievable duty cycle for all modes. The duty cycle was measured in accordance with section 12.2 of ANSI C63.10-2013.

Test Engineer(s): Donald Salguero

Test Date(s): November 7, 2019

Mode	On Time	Period	Duty Cycle	Duty Factor	1/T Minimum
	(msec)	(msec)	(%)	(dB)	VBW (Hz)
40MHz	NA	NA	100%	0	10

🔆 Ag	jilent							RТ		
Ref 23 c	lBm		Att	en 35 dB					Mkr1 1 4.9	3.56 ms 92 dBm
Peak Log										
10 dB/	darandara ara ba		a 1			a - ar t Marcul a cha	and the second of	- 4 - 1 - 1 4 - 1 - 1 4		
		hayya baran kasa		and the set of a set of					hina an a	
W1 S2 S3 FS										
AA										
Center & Res BW	5.755 GHz / 3 MHz				VBW 3 MH	tz		Sweep 10	S 0 ms (2000	pan 0 Hz) pts)

Plot 5. Duty Cycle, 40 MHz, 5755 MHz



Amimon AMN42012						Electromagnetic Compatibility Intentional Radiators Yitle 47, Part 15.407 Subpart E
§15. 407(a)(3)	Maximum C	Conducted O	utput Powe	er		
Test Requirements:	frequency band If transmitting conducted outp amount in dB th point U-NII dev	of operation sh antennas of din but power and hat the direction vices operating	all not exceed rectional gain the maximun nal gain of th in this band	1 W. greater than power sp e antenna e may employ	an 6 dBi are ectral densit xceeds 6 dB y transmittin	cted output power over the e used, both the maximum ty shall be reduced by the ii. However, fixed point-to- g antennas with directional mitter conducted power.
Test Procedure:	were taken with	h the EUT set t asured accordin	o transmit cong to measure	ntinuously	on its low, r	d attenuator. Measurements nid, and high channels. Its described in 789033 D02
Test Results:	The EUT as test	ted is compliant	t with the requ	irements of	this section	
	Center Frequency (MHz)	Conducted Power (dBm)	Antemna Gain (dBi)	Limit (dBm)	Margin (dB)	
	5755	20.97	2	30	-9.03	
	5795	21.25	2	30	-8.75	

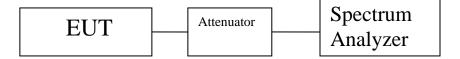
Table 9.	. Conducted Power, 2	dBi Configuration, Test Results
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Center Frequency (MHz)	Conducted Power (dBm)	Antemna Gain (dBi)	Limit (dBm)	Final Limit (dBm)	Margin (dB)
5755	19.24	11	30	25	-5.76
5795	19.41	11	30	25	-5.59

Table 10. Conducted Power, 11dBi Configuration, Test Result	Table 10.	Conducted Power	, 11dBi Configuration	, Test Results
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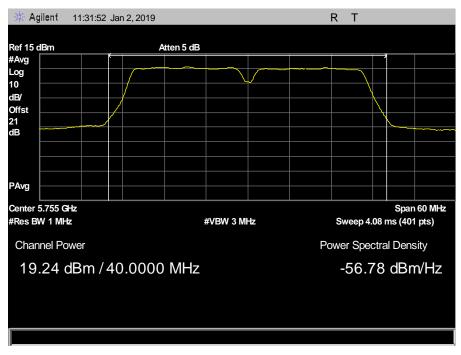
Test Date(s):

January 2, 2019

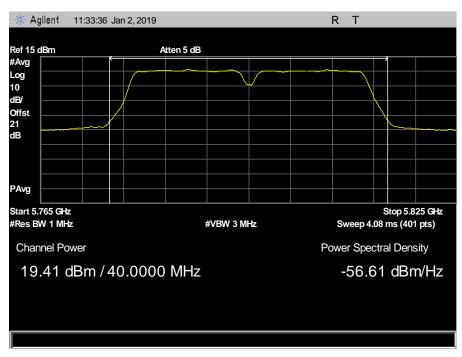




Amimon AMN42012 Electromagnetic Compatibility Intentional Radiators CFR Title 47, Part 15.407 Subpart E



Plot 6. Output Power, 11 dBi configuration, CF 5755 MHz

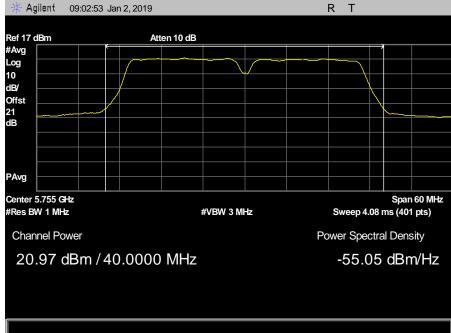


Plot 7. Output Power, 11 dBi configuration, CF 5795 MHz

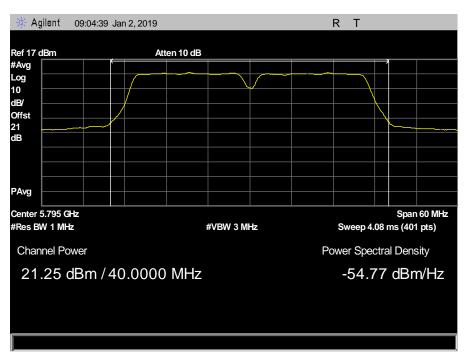


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Electromagnetic Compatibility Intentional Radiators CFR Title 47, Part 15.407 Subpart E



Plot 8. Output Power, 2 dBi configuration, CF 5755 MHz



Plot 9. Output Power, 2 dBi configuration, CF 5795 MHz

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Electromagnetic Compatibility Criteria for Intentional Radiators

§15.407(a)(3) Test Requirements:	Maximum Power Spectral Density \$15.407(a)(3): In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to- point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power.
Test Procedure: Test Results:	The EUT was connected to a spectrum analyzer through a cable and attenuator. Measurements were taken with the EUT set to transmit continuously on its low, mid, and high channels. Its power was measured according KDB 789033 D02 General UNII Test Procedures v02r01. A 1 MHz RBW was used during testing, as this provides a worst-case scenario.
l est kesuits:	The EUT as tested is compliant with the requirements of this section.

Center Frequency (MHz)	Conducted PSD (dBm)	Antemna Gain (dBi)	Limit (dBm)	Margin (dB)
5755	7.784	2	30	-22.216
5795	7.868	2	30	-22.132

Table 11. Power Spectral Density, Conducted Power, 2dBi Configuration

Center Frequency (MHz)	Conducted PSD (dBm)	Antemna Gain (dBi)	Limit (dBm)	Final Limit (dBm)	Margin (dB)
5755	6.064	11	30	25	-18.936
5795	5.944	11	30	25	-19.056

Table 12. Power Spectral Density, Conducted Power, 11dBi Configuration

Test Engineer(s): Donald Salguero

Test Date(s):

January 2, 2019

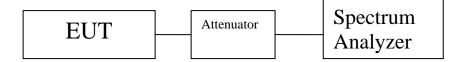
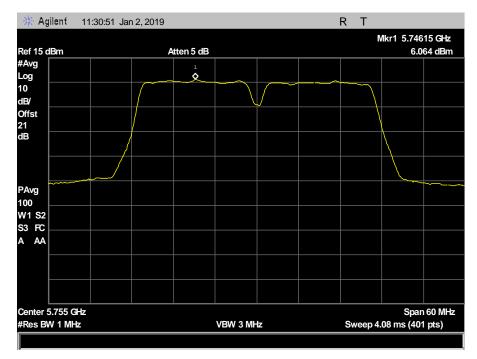


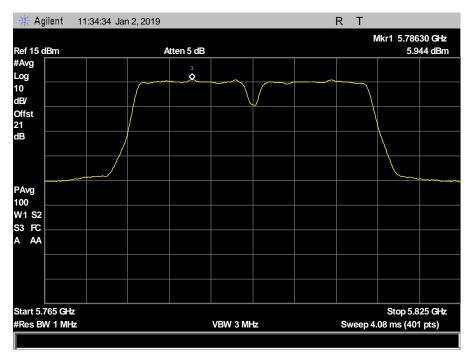
Figure 4. Power Spectral Density, Test Diagram



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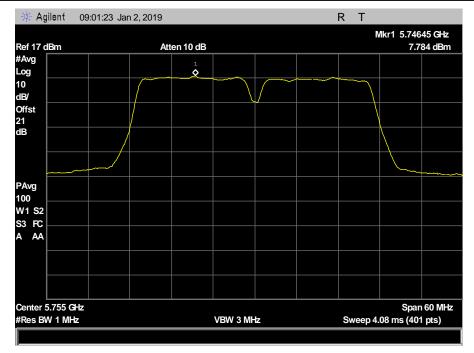
Plot 10. Power Spectral Density, 11 dBi configuration, CF 5755 MHz



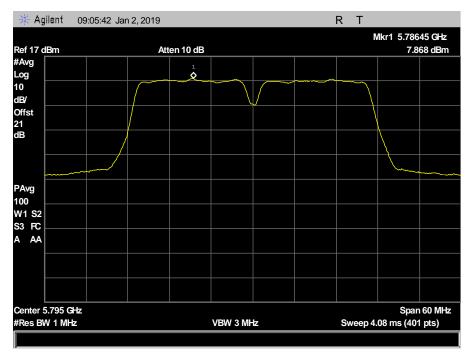
Plot 11. Power Spectral Density, 11 dBi configuration, CF 5795 MHz



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Plot 12. Power Spectral Density, 2 dBi configuration, CF 5755 MHz



Plot 13. Power Spectral Density, 2 dBi configuration, CF 5795 MHz



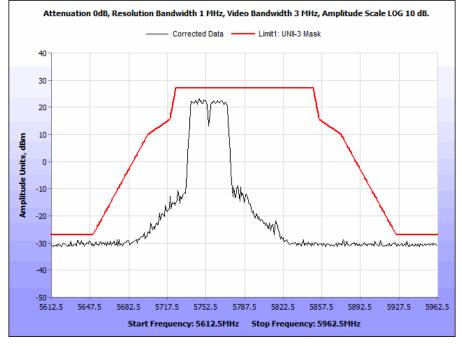
MET Labs

Electromagnetic Compatibility Criteria for Intentional Radiators

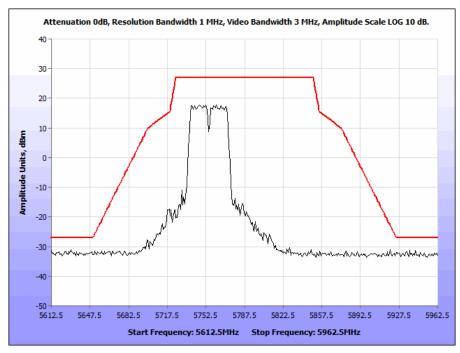
§15.407(b)(4) & (6 -	- 7) Undesirable Emissions
Test Requirements:	§ 15.407(b)(4): For transmitters operating in the 5.725-5.85 GHz band:
	(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
	§ 15.407(b)(6): Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in Section 15.207.
	§ 15.407(b)(7): The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.
Test Procedure:	The EUT was placed on a non-conducting stand on a turntable in a chamber. To find the maximum emission the EUT was set to transmit on low, mid, and high channels. Additionally, the turntable was rotated 360 degrees, the EUT was oriented through its three orthogonal axes, and the receive antenna height was varied in order to maximize emissions.
	For frequencies from 30 MHz to 1 GHz, measurements were first made using a peak detector with a 100 kHz resolution bandwidth. Emissions which exceeded the limits were re-measured using a quasi-peak detector with a 120 kHz resolution bandwidth.
	Above 1 GHz, measurements were made pursuant the method described in FCC KDB 789033 D02 General UNII Test Procedure New Rules v02r01. The equation, EIRP= E + 20 log D – 104.8 was used to convert field strength to EIRP (E = field strength (dB μ V/m) and D = Reference measurement distance).
	For emissions above 1 GHz and in restricted bands, measurements of the field strength were made with a peak detector and an average detector and compared with the limits of 15.209.
Test Results:	For below 1 GHz, the EUT was compliant with the requirements of this section.
	For above 1 GHz, the EUT was compliant with the requirements of this section, only noise floor was observed above 18GHz.
Test Engineer(s):	Donald Salguero
Test Date(s):	February 13, 2019







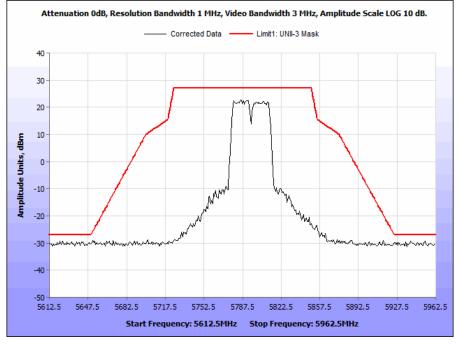
Plot 14. Radiated Band Edge, 5725 - 5850 MHz, BW 40, CF 5755 MHz, rx 11 dBi



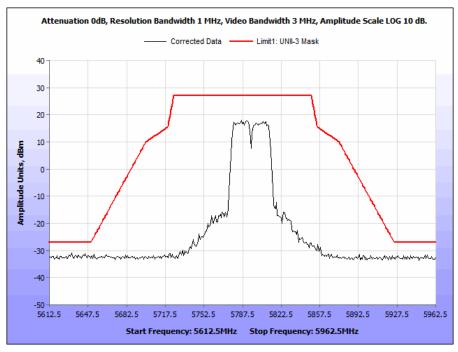
Plot 15. Radiated Band Edge, 5725 - 5850 MHz, BW 40, CF 5755 MHz, rx 2 dBi





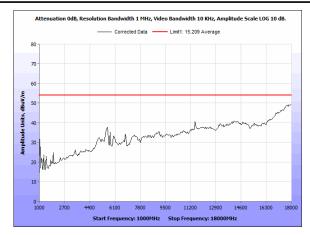


Plot 16. Radiated Band Edge, 5725 - 5850 MHz, BW 40, 5795 MHz, rx 11 dBi

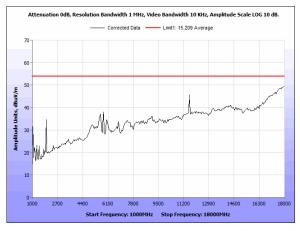


Plot 17. Radiated Band Edge, 5725 - 5850 MHz, BW 40, CF 5795 MHz, rx 2 dBi

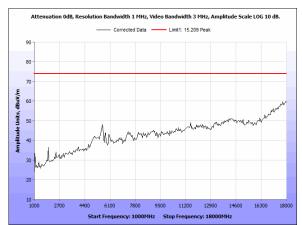




Plot 18. Unwanted Emissions, 11 dBi, Average, CF 5755 MHz, 1 – 18 GHz

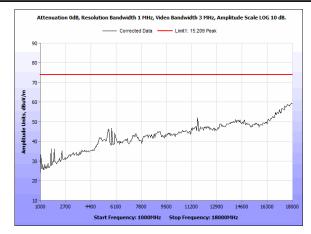


Plot 19. Unwanted Emissions, 11 dBi, Average, CF 5795 MHz, 1 – 18 GHz

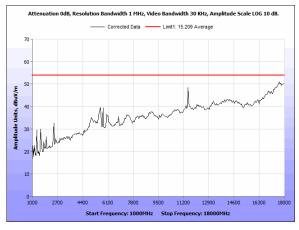


Plot 20. Unwanted Emissions, 11 dBi, Peak, CF 5755 MHz, 1 – 18 GHz

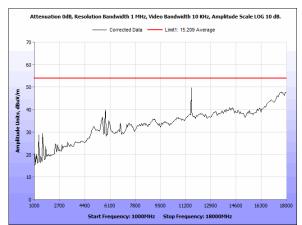




Plot 21. Unwanted Emissions, 11 dBi, Peak, CF 5795 MHz, 1 – 18 GHz

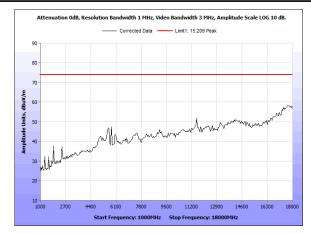


Plot 22. Unwanted Emissions, 2 dBi, Average, CF 5755 MHz, 1 – 18 GHz

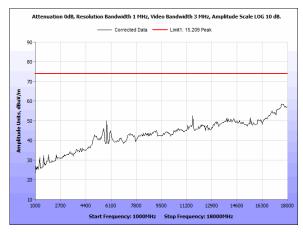


Plot 23. Unwanted Emissions, 2 dBi, Average, CF 5795 MHz, 1 – 18 GHz

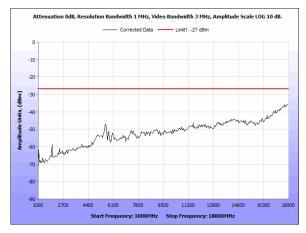




Plot 24. Unwanted Emissions, 2 dBi, Peak, CF 5755 MHz, 1 – 18 GHz

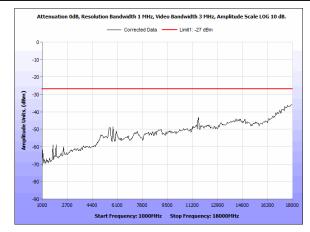


Plot 25. Unwanted Emissions, 2 dBi, Peak, CF 5795 MHz, 1 – 18 GHz

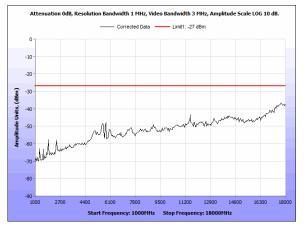


Plot 26. Unwanted Emissions, 11 dBi, CF 5755 MHz, 1 – 18 GHz

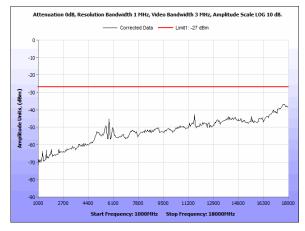




Plot 27. Unwanted Emissions, 11 dBi, CF 5795 MHz, 1 – 18 GHz

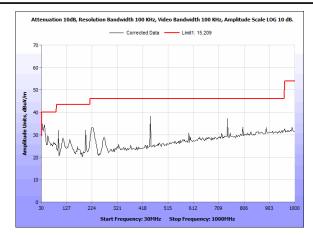


Plot 28. Unwanted Emissions, 2 dBi, CF 5755 MHz, 1 – 18 GHz

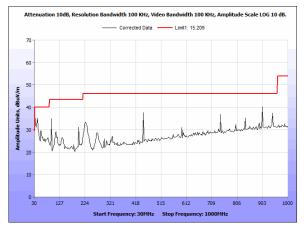


Plot 29. Unwanted Emissions, 2 dBi, CF 5795 MHz, 1 – 18 GHz

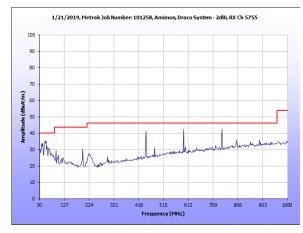




Plot 30. Radiated Emissions, 11 dBi, CF 5755 MHz, 30 – 1000 MHz



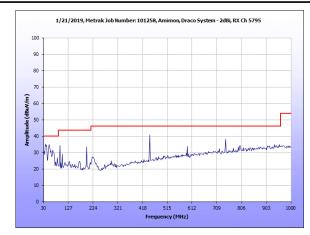
Plot 31. Radiated Emissions, 11 dBi, CF 5795 MHz, 30 – 1000 MHz



Plot 32. Radiated Emissions, 2 dBi, CF 5755 MHz, 30 - 1000 MHz







Plot 33. Radiated Emissions, 2 dBi, CF 5795 MHz, 30 – 1000 MHz



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Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.407(b)(6) Conducted Emissions

Test Requirement(s): § 15.407 (b)(6): Any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

§ 15.207 (a): For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency range	§ 15.207(a), Conducted Limit (dBμV)						
(MHz)	Quasi-Peak	Average					
* 0.15- 0.45	66 – 56	56 - 46					
0.45 - 0.5	56	46					
0.5 - 30	60	50					

 Table 13. Conducted Limits for Intentional Radiators from FCC Part 15 § 15.207(a)

Test Procedure: The EUT was placed on a non-metallic table inside a screen room. The EUT was situated such that the back of the EUT was 0.4 m from one wall of the vertical ground plane, and the remaining sides of the EUT were no closer than 0.8 m from any other conductive surface. The EUT was powered from a 50 Ω /50 μ H Line Impedance Stabilization Network (LISN). The EMC receiver scanned the frequency range from 150 kHz to 30 MHz. Conducted Emissions measurements were made in accordance with *ANSI C63.10-2013*

Test Results: The EUT was compliant with requirements of this section.

Measured emissions were within applicable limits.

Test Engineer(s): Donald Salguero

Test Date(s): February 1, 2019



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Frequency (MHz)	Uncorrected Meter Reading (dBuV) QP	Cable Loss (dB)	External Attenuation (dB)	Corrected Measurement (dBuV) QP	Limit (dBuV) QP	Margin (dB) QP	Uncorrected Meter Reading (dBuV) Avg.	Cable Loss (dB)	External Attenuation (dB)	Corrected Measurement (dBuV) AVG	Limit (dBuV) AVG	Margin (dB) AVG
3.1925	23.53	0	10	33.53	56	-22.47	17.2	0	10	27.2	46	-18.8
4.64	22.37	0	10	32.37	56	-23.63	16.35	0	10	26.35	46	-19.65
5.72	21.13	0	10	31.13	60	-28.87	15.48	0	10	25.48	50	-24.52
2.22	22.24	0	10	32.24	56	-23.76	16.53	0	10	26.53	46	-19.47
0.335	18.57	0	10	28.57	59.33	-30.76	13.59	0	10	23.59	49.33	-25.74
1.1925	18.08	0	10	28.08	56	-27.92	12.19	0	10	22.19	46	-23.81

 Table 14. Conducted Emissions, Phase, Test Results

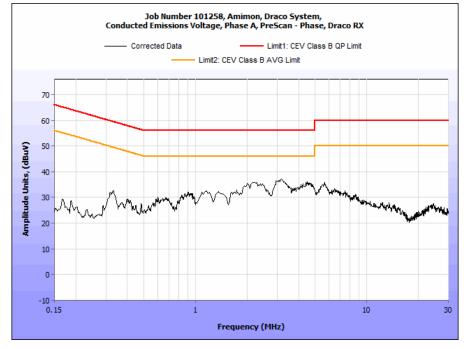
Frequency (MHz)	Uncorrected Meter Reading (dBuV) QP	Cable Loss (dB)	External Attenuation (dB)	Corrected Measurement (dBuV) QP	Limit (dBuV) QP	Margin (dB) QP	Uncorrected Meter Reading (dBuV) Avg.	Cable Loss (dB)	External Attenuation (dB)	Corrected Measurement (dBuV) AVG	Limit (dBuV) AVG	Margin (dB) AVG
20.76	10.9	0.09	10	20.99	60	-39.01	5	0.09	10	15.09	50	-34.91
3.2825	22.45	0	10	32.45	56	-23.55	16.1	0	10	26.1	46	-19.9
4.665	22.26	0	10	32.26	56	-23.74	16.36	0	10	26.36	46	-19.64
2.2525	21.71	0	10	31.71	56	-24.29	16	0	10	26	46	-20
0.325	18.81	0	10	28.81	59.58	-30.77	12.6	0	10	22.6	49.58	-26.98
5.737	20.99	0	10	30.99	60	-29.01	15.41	0	10	25.41	50	-24.59

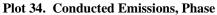
Table 15. Conducted Emissions, Neutral, Test Results

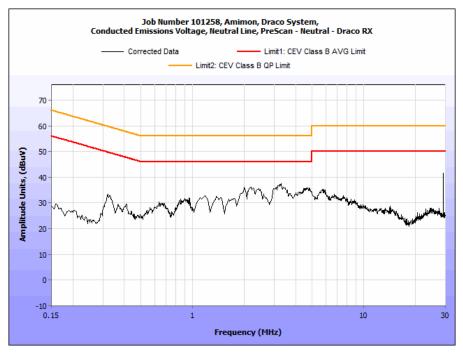




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Plot 35. Conducted Emissions, Neutral



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Electromagnetic Compatibility Criteria for Intentional Radiators

§ 15.407(f)	Maximum Permissible Exposure
Test Requirement(s):	§15.407(f): U-NII devices are subject to the radio frequency radiation exposure requirements specified in §1.1307(b), §2.1091 and §2.1093 of this chapter, as appropriate. All equipment shall be considered to operate in a "general population/uncontrolled" environment.
RF Exposure Requirements:	§1.1307(b)(1) and §1.1307(b)(2): Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.
RF Radiation Exposure Limit:	§1.1310: As specified in this section, the Maximum Permissible Exposure (MPE) Limit shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Sec. 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of Sec. 2.1093 of

MPE Limit: EUT's operating frequencies @ 5725 - 5850 MHz; Limit for Uncontrolled exposure: 1 mW/cm² or 10 W/m²

Equation from page 18 of OET 65, Edition 97-01

this chapter.

 $S = PG / 4\pi R^2$ or $R = \int (PG / 4\pi S)$

where, S = Power Density (mW/cm²) P = Power Input to antenna (mW) G = Antenna Gain (numeric value)R = Distance (cm)

Test Results:

FCC										
Frequency (MHz)	Con. Pwr. (dBm)	Con. Pwr. (mW)	Ant. Gain (dBi)	Ant. Gain numeric	Pwr. Density (mW/cm ²)	Limit (mW/cm ²)	Margin	Distance (cm)	Result	
5795	19.41	87.297	11	12.589	0.21864	1	0.78136	20	Pass	
5795	21.25	133.352	2	1.585	0.04205	1	0.95795	20	Pass	

The safe distance where Power Density is less than the MPE Limit listed above was found to be 20 cm.



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IV. Test Equipment



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Test Equipment

Calibrated test equipment utilized during testing was maintained in a current state of calibration per the requirements of ISO/IEC 17025:2017.

MET Asset #	Equipment	Manufacturer	Model	Last Cal Date	Cal Due Date
1T4409	EMI Receiver	Rohde & Schwarz	ESIB7	01/04/2019	01/04/2021
1T2947	LISN	Solar Electronics Company	8028-50-TS- 24-BNC	8/31/2018	2/29/2020
1T2948	LISN	Solar Electronics Company	8028-50-TS- 24-BNC	8/31/2018	2/29/2020
1T4753	Antenna - Bilog	Sunol Sciences	JB6	08/30/2018	02/29/2020
1T4300A	SEMI-ANECHOIC CHAMBER # 1 (FCC)	EMC TEST SYSTEMS	NONE	Special	
1T2665	Antenna; Horn	EMCO	3115	6/22/2017	6/22/2019
1T4612	Spectrum Analyzer	Agilent Technologies	E4407B	5/15/2018	11/15/2019
1T8743	Preamplifier	A.H. Systems, Inc.	PAM-0118P	Func. Verify	
1T4149	High-Frequency Anechoic Chamber	Ray Proof	81	Not Required	

Table 16.Test Equipment List

Note: Functionally tested equipment is verified using calibrated instrumentation at the time of testing.



Amimon AMN42012 Electromagnetic Compatibility Certification & User's Manual Information CFR Title 47, Part 15.407 Subpart E

V. Certification & User's Manual Information



Certification & User's Manual Information

L. Certification Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart I — Marketing of Radio frequency devices:

§ 2.801 Radio-frequency device defined.

As used in this part, a radio-frequency device is any device which in its operation is capable of Emitting radio-frequency energy by radiation, conduction, or other means. Radio- frequency devices include, but are not limited to:

- (a) The various types of radio communication transmitting devices described throughout this chapter.
- (b) The incidental, unintentional and intentional radiators defined in Part 15 of this chapter.
- (c) The industrial, scientific, and medical equipment described in Part 18 of this chapter.
- (d) Any part or component thereof which in use emits radio-frequency energy by radiation, conduction, or other means.

§ 2.803 Marketing of radio frequency devices prior to equipment authorization.

- (a) Except as provided elsewhere in this chapter, no person shall sell or lease, or offer for sale or lease (including advertising for sale or lease), or import, ship or distribute for the purpose of selling or leasing or offering for sale or lease, any radio frequency device unless:
 - (1) In the case of a device subject to certification, such device has been authorized by the Commission in accordance with the rules in this chapter and is properly identified and labeled as required by §2.925 and other relevant sections in this chapter; or
 - (2) In the case of a device that is not required to have a grant of equipment authorization issued by the Commission, but which must comply with the specified technical standards prior to use, such device also complies with all applicable administrative (including verification of the equipment or authorization under a Declaration of Conformity, where required), technical, labeling and identification requirements specified in this chapter.
- (d) Notwithstanding the provisions of paragraph (a) of this section, the offer for sale solely to business, commercial, industrial, scientific or medical users (but not an offer for sale to other parties or to end users located in a residential environment) of a radio frequency device that is in the conceptual, developmental, design or preproduction stage is permitted prior to equipment authorization or, for devices not subject to the equipment authorization requirements, prior to a determination of compliance with the applicable technical requirements *provided* that the prospective buyer is advised in writing at the time of the offer for sale that the equipment is subject to the FCC rules and that the equipment will comply with the appropriate rules before delivery to the buyer or to centers of distribution.



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- (e)(1) Notwithstanding the provisions of paragraph (a) of this section, prior to equipment authorization or determination of compliance with the applicable technical requirements any radio frequency device may be operated, but not marketed, for the following purposes and under the following conditions:
 - (*i*) *Compliance testing*;
 - (ii) Demonstrations at a trade show provided the notice contained in paragraph (c) of this section is displayed in a conspicuous location on, or immediately adjacent to, the device;
 - (iii) Demonstrations at an exhibition conducted at a business, commercial, industrial, scientific or medical location, but excluding locations in a residential environment, provided the notice contained in paragraphs (c) or (d) of this section, as appropriate, is displayed in a conspicuous location on, or immediately adjacent to, the device;
 - (iv) Evaluation of product performance and determination of customer acceptability, provided such operation takes place at the manufacturer's facilities during developmental, design or pre-production states; or
 - (v) Evaluation of product performance and determination of customer acceptability where customer acceptability of a radio frequency device cannot be determined at the manufacturer's facilities because of size or unique capability of the device, provided the device is operated at a business, commercial, industrial, scientific or medical user's site, but not at a residential site, during the development, design or pre-production stages.
- (e)(2) For the purpose of paragraphs (e)(1)(iv) and (e)(1)(v) of this section, the term *manufacturer's facilities* includes the facilities of the party responsible for compliance with the regulations and the manufacturer's premises, as well as the facilities of other entities working under the authorization of the responsible party in connection with the development and manufacture, but not the marketing, of the equipment.
- (f) For radio frequency devices subject to verification and sold solely to business, commercial, industrial, scientific and medical users (excluding products sold to other parties or for operation in a residential environment), parties responsible for verification of the devices shall have the option of ensuring compliance with the applicable technical specifications of this chapter at each end user's location after installation, provided that the purchase or lease agreement includes a proviso that such a determination of compliance be made and is the responsibility of the party responsible for verification of the equipment.



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Certification & User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 2, Subpart J — Equipment Authorization Procedures:

§ 2.901 Basis and Purpose

- (a) In order to carry out its responsibilities under the Communications Act and the various treaties and international regulations, and in order to promote efficient use of the radio spectrum, the Commission has developed technical standards for radio frequency equipment and parts or components thereof. The technical standards applicable to individual types of equipment are found in that part of the rules governing the service wherein the equipment is to be operated.¹ *In addition to the technical standards provided, the rules governing the service may require that such equipment be verified by the manufacturer or importer*, be authorized under a Declaration of Conformity, or receive an equipment authorization from the Commission by one of the following procedures: certification or registration.
- (b) The following sections describe the verification procedure, the procedure for a Declaration of Conformity, and the procedures to be followed in obtaining certification from the Commission and the conditions attendant to such a grant.

§ 2.907 Certification.

- (a) Certification is an equipment authorization issued by the Commission, based on representation and test data submitted by the applicant.
- (b) Certification attaches to all units subsequently marketed by the grantee which are identical (see Section 2.908) to the sample tested except for permissive changes or other variations authorized by the Commission pursuant to Section 2.1043.

¹ In this case, the equipment is subject to the rules of Part 15. More specifically, the equipment falls under Subpart B (of Part 15), which deals with unintentional radiators.



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Certification & User's Manual Information

§ 2.948 Description of measurement facilities.

(a) Each party making measurements of equipment that is subject to an equipment authorization under Part 15 or Part 18 of this chapter, regardless of whether the measurements are filed with the Commission or kept on file by the party responsible for compliance of equipment marketed within the U.S. or its possessions, shall compile a description of the measurement facilities employed.

(1) If the measured equipment is subject to the verification procedure, the description of the measurement facilities shall be retained by the party responsible for verification of the equipment.

- (i) If the equipment is verified through measurements performed by an independent laboratory, it is acceptable for the party responsible for verification of the equipment to rely upon the description of the measurement facilities retained by or placed on file with the Commission by that laboratory. In this situation, the party responsible for the verification of the equipment is not required to retain a duplicate copy of the description of the measurement facilities.
- (ii) If the equipment is verified based on measurements performed at the installation site of the equipment, no specific site calibration data is required. It is acceptable to retain the description of the measurement facilities at the site at which the measurements were performed.
- (2) If the equipment is to be authorized by the Commission under the certification procedure, the description of the measurement facilities shall be filed with the Commission's Laboratory in Columbia, Maryland. The data describing the measurement facilities need only be filed once but must be updated as changes are made to the measurement facilities or as otherwise described in this section. At least every three years, the organization responsible for filing the data with the Commission shall certify that the data on file is current.



Certification & User's Manual Information

Label and User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart A — General:

§ 15.19 Labeling requirements.

- (a) In addition to the requirements in Part 2 of this chapter, a device subject to certification or verification shall be labeled as follows:
 - (1) Receivers associated with the operation of a licensed radio service, e.g., FM broadcast under Part 73 of this chapter, land mobile operation under Part 90, etc., shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the condition that this device does not cause harmful interference.

(2) A stand-alone cable input selector switch, shall bear the following statement in a conspicuous location on the device:

This device is verified to comply with Part 15 of the FCC Rules for use with cable television service.

(3) All other devices shall bear the following statement in a conspicuous location on the device:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- (4) Where a device is constructed in two or more sections connected by wires and marketed together, the statement specified under paragraph (a) of this section is required to be affixed only to the main control unit.
- (5) When the device is so small or for such use that it is not practicable to place the statement specified under paragraph (a) of this section on it, the information required by this paragraph shall be placed in a prominent location in the instruction manual or pamphlet supplied to the user or, alternatively, shall be placed on the container in which the device is marketed. However, the FCC identifier or the unique identifier, as appropriate, must be displayed on the device.

§ 15.21 Information to user.

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



Verification & User's Manual Information

The following is extracted from Title 47 of the Code of Federal Regulations, Part 15, Subpart B — Unintentional Radiators:

§ 15.105 Information to the user.

(a) For a Class A digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at own expense.

(b) For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual:

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



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End of Report