



DATE: 15 March 2020

I.T.L. (PRODUCT TESTING) LTD. FCC/IC Radio Test Report

for

AeroScout Ltd.

Equipment under test:

T12s Asset Tag

T12s

Tested by:

M. Zohar

Approved by:

D. Shidlowsky

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This report relates only to items tested.



Measurement/Technical Report for AeroScout Ltd.

T12s Asset Tag

T12s

FCC ID: Q3HTAG1200S

IC: 5115A-TAG1200S

This report concerns:	Original Grant: X Class I Change: Class II Change:
Equipment type:	FCC: (DTS) Digital Transmission System IC: Spread Spectrum Digital Device (2400-2483.5)
Limits used:	47CFR15 Section 15.247 RSS 247, Issue 2, February 2017, Section 5 RSS-Gen, Issue 5, April 2018
Measurement procedure used is KDB 558074 D01 v05r02, ANSI C63.10:2013 and RSS Gen, Issue 5: 2018	
Application for Certification prepared by: R. Pinchuck ITL (Product Testing) Ltd. 1 Bat Sheva Street Lod, 7120101 Israel e-mail Rpinchuck@itlglobal.org	Applicant for this device: (different from "prepared by") Reuven Amsallem AeroScout 2 Ilan Ramon St., Science Park Ness-Ziona, 7403635, Israel Tel: +972-8-936-9393 Fax: +972-8-936-5977 e-mail: reuven.amsalem@aeroscout.com



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1. General Information

1.1 Administrative Information

Manufacturer:	AeroScout Ltd.
Manufacturer's Address:	2 Ilan Ramon St., Science Park Ness-Ziona, 7403635 Israel Tel: +972-8-936-9393 Fax: +972-8-936-5977
Manufacturer's Representative:	Nir Sade
Equipment Under Test (E.U.T):	T12s Asset Tag
Equipment PMN:	T12s
Equipment Serial No.:	2
Equipment HVIN:	T12s
Date of Receipt of E.U.T:	December 29, 2019
Start of Test:	December 29, 2019
End of Test:	January 07, 2020
Test Laboratory Location:	I.T.L (Product Testing) Ltd. 1 Batsheva St., Lod ISRAEL 7120101
Test Specifications:	FCC Part 15, Subpart C RSS 247, Issue 2, February 2017, Section 5 RSS-Gen, Issue 5, April 2018



1.2 List of Accreditations

The EMC laboratory of I.T.L. is accredited by the following bodies:

1. The American Association for Laboratory Accreditation (A2LA) (U.S.A.), Certificate No. 1152.01.
2. The Federal Communications Commission (FCC) (U.S.A.), FCC Designation No. IL1005.
3. The Israel Ministry of the Environment (Israel), Registration No. 1104/01.
4. Department of Innovation, Science and Economic Development (ISED) Canada, CAB identifier: IL1002

I.T.L. Product Testing Ltd. is accredited by the American Association for Laboratory Accreditation (A2LA) and the results shown in this test report have been determined in accordance with I.T.L.'s terms of accreditation unless stated otherwise in the report.

1.3 Product Description

The Stanley Healthcare T12s Bidirectional Tag is a component of the enterprise level visibility solution based on standard Wi-Fi communication for location-based applications.

Once deployed, the tag uses its bidirectional functionality to receive firmware and configuration updates from Mobile View. This removes the need to manually collect, update and re-deploy tags in the field.

The T12s can be used for egress point detection, call-button and alerting.

The T12s Tag received and processed via standard Wi-Fi access points, keeping infrastructure costs low and installation simple. As with all tags, location is determined through a unique beaconing method that keeps network impact low, and ensures scalability and long battery life.

T12s components: 3 boards:

MCU+RF(WiFi)

LF receiver 125KHz

URM (ultrasonic receiver)

Working voltage	3.0VDC battery operated
Mode of operation	Transceiver
Modulations	For Wi-Fi/b: DSSS,CCK For Wi-Fi/g: OFDM(BPSK,QPSK,16QAM ,64QAM) For Wi-Fi/n: OFDM(BPSK,QPSK,16QAM ,64QAM)
Assigned Frequency Range	2400.0-2483.5MHz
Operating Frequency Range	2412.0-2462.0MHz
Transmit power(conducted)	~18.0dBm
Antenna Gain	-2.0 dBi PCB antenna
Modulation BW	20MHz
Bit rate (Mbit/s)	For Wi-Fi/b: 1, 2, 5.5, 11 For Wi-Fi/g: 6, 9, 12, 18, 24, 36, 48, 54 For Wi-Fi/n: 6.5,13,19.5,26,39,52,58.5,65

1.4 Test Methodology

Both conducted and radiated testing was performed according to the procedures in KDB 558074 D01 v05r02, ANSI C63.10: 2013 and RSS Gen, Issue 5: 2018. Radiated testing was performed at an antenna to EUT distance of 3 meters.

1.5 Test Facility

Emissions tests were performed at I.T.L.'s testing facility in Lod, Israel. I.T.L.'s EMC Laboratory is accredited by A2LA, certificate No. 1152.01, its FCC Designation Number is IL1005 and its ISSED designation number is IL1002.



1.6 Measurement Uncertainty

Conducted Emission

Conducted Emission (CISPR 11, EN 55011, CISPR 22, EN 55022, ANSI C63.4)

0.15 – 30 MHz:

Expanded Uncertainty (95% Confidence, K=2):

± 3.44 dB

Radiated Emission

Radiated Emission (CISPR 11, EN 55011, CISPR 22, EN 55022, ANSI C63.4)
for open site:

30-1000MHz:

Expanded Uncertainty (95% Confidence, K=2):

± 4.96 dB

1 GHz to 6 GHz

Expanded Uncertainty (95% Confidence, K=2):

± 5.19 dB

>6 GHz

Expanded Uncertainty (95% Confidence, K=2):

± 5.51 dB

2. System Test Configuration

2.1 Justification

The E.U.T contains a transceiver IEEE 802.11b/g/n standard (Wi-Fi/b/g/n) with only 20MHz CBW.

The unit was evaluated while transmitting at the low channel (2412MHz), the mid channel (2437MHz) and the high channel (2462MHz).

Conducted emission tests were performed with the E.U.T. antenna terminal connected by a RF cable to the Spectrum Analyzer through a 20dB external attenuator.

For Conducted set up, measurements were performed with WUT powered via external DC power supply. For radiated set up, measurements were performed with EUT powered by batteries.

Final radiated emission for Wi-Fi b/g/n modes tests were performed using the lowest and highest bit rates for each different protocol type. The bit rates for each protocol are shown in the table below:

Protocol Type	“Worst Case” Bit Rate
Wi-Fi/b	1,11 Mbit/s
Wi-Fi/g	6,54 Mbit/s
Wi-Fi/n	6.5,65 Mbit/s (MCS0,MCS7)

Final radiated emission tests was performed after exploratory emission testing that was performed in 3 orthogonal polarities to determine the “worst case” radiation.

The worst case was the Y axis as the below results show.

Orientation	Frequency	2 nd Harmonic	3 rd Harmonic	Band Edge
	(MHz)	(dBuV/m)	(dBuV/m)	(dBuV/m)
X axis	2412.0	50.3	52.5	63.0
	2437.0	50.5	52.4	-
	2462.0	50.7	52.0	62.7
Y axis	2412.0	50.4	53.1	63.6
	2437.0	51.2	52.9	-
	2462.0	50.8	53.4	69.2
Z axis	2412.0	50.4	52.3	62.1
	2437.0	50.2	52.3	-
	2462.0	50.6	52.7	56.7

Figure 1. Screening Results

2.2 EUT Exercise Software

No special exercise software was used.

2.3 *Special Accessories*

No special exercise software was used.

2.4 *Equipment Modifications*

No modifications were necessary in order to achieve compliance.

2.5 *Configuration of Tested System*

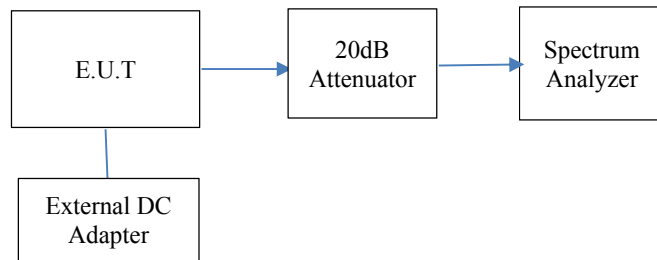


Figure 2. Configuration of Tested System Conducted



Figure 3. Configuration of Tested System Radiated

3. Conducted & Radiated Measurement Test Set-Up Photos

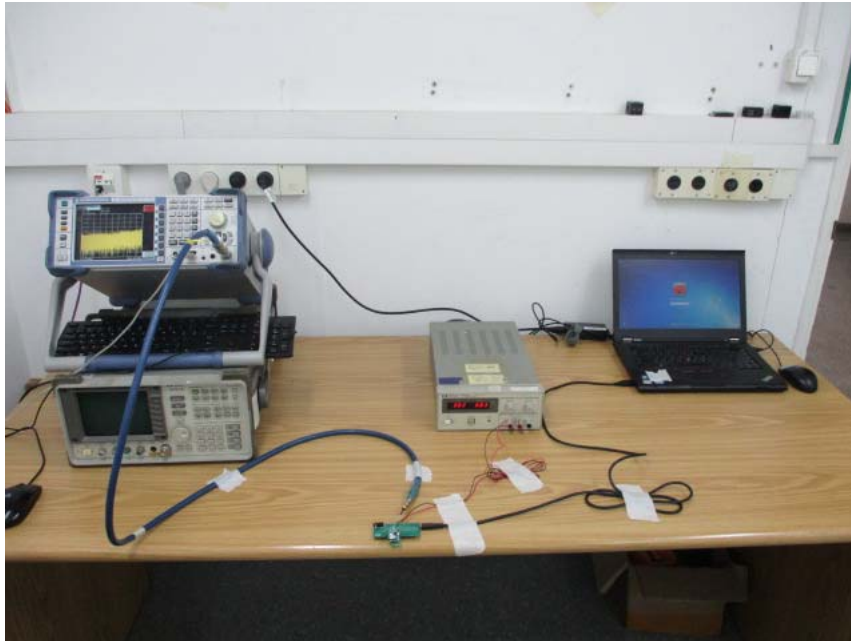


Figure 4. Conducted Test Set-Up



Figure 5. Radiated Emission Test, 0.009-30MHz



Figure 6. Radiated Emission Test, 30-200MHz



Figure 7. Radiated Emission Test, 200-1000MHz



Figure 8. Radiated Emission Test, 1-18GHz

4. 6 dB Minimum Bandwidth

4.1 Test Specification

FCC Part 15, Subpart C, Section 247(a)(2)

RSS 247, Issue 2, Section 5.2(a)

4.2 Test Procedure

(Temperature (20°C)/ Humidity (52%RH))

The E.U.T operation mode and test set-up are as described in Section 2 of this report.

The E.U.T. antenna terminal was connected to the Spectrum Analyzer through an external attenuator and an appropriate coaxial cable (total loss=21.5dB). Special attention was taken to prevent Spectrum Analyzer RF input overload.

The spectrum bandwidth of the E.U.T. at the point of 6 dB below maximum peak power was measured and recorded. The RBW was set to 100 kHz.

4.3 Test Limit

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

4.4 Test Results

Protocol Type	Operation Frequency	Reading	Limit
	(MHz)	(kHz)	(kHz)
Wi-fi/b(1Mbit/s)	2412.0	9980.0	>500.0
	2437.0	10060.0	>500.0
	2462.0	10060.0	>500.0
Wi-fi/b(11Mbit/s)	2412.0	10140.0	>500.0
	2437.0	9741.0	>500.0
	2462.0	10140.0	>500.0
Wi-fi/g(6Mbit/s)	2412.0	15,010.0	>500.0
	2437.0	15,329.0	>500.0
	2462.0	15,090.0	>500.0
Wi-fi/g(54Mbit/s)	2412.0	15,888.0	>500.0
	2437.0	16,447.0	>500.0
	2462.0	16,287.0	>500.0
Wi-fi/n(6.5Mbit/s)	2412.0	15,090.0	>500.0
	2437.0	15,808.0	>500.0
	2462.0	15,090.0	>500.0
Wi-fi/n(65Mbit/s)	2412.0	17,645.0	>500.0
	2437.0	17,565.0	>500.0
	2462.0	17,565.0	>500.0

Figure 9 6 dB Minimum Bandwidth

JUDGEMENT: Passed

For additional information see *Figure 10* to *Figure 27*.

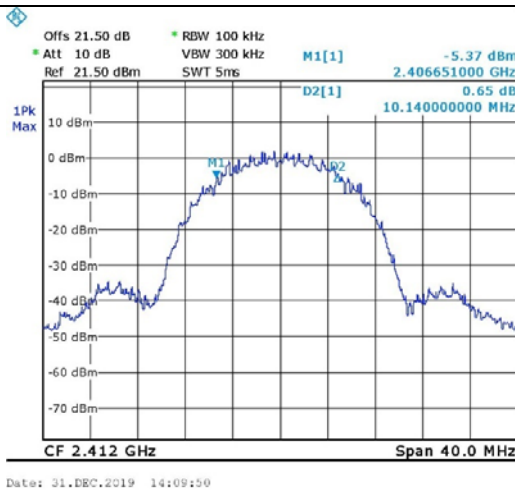


Figure 10. 2412.0 MHz, Wi-fi/b(11Mbit/s)

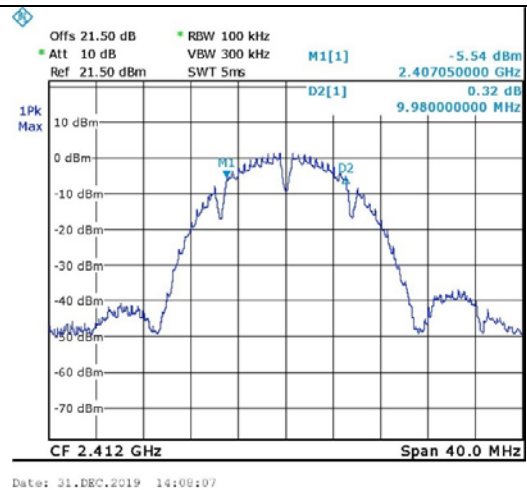


Figure 11. 2412.0 MHz, Wi-fi/b(1Mbit/s)

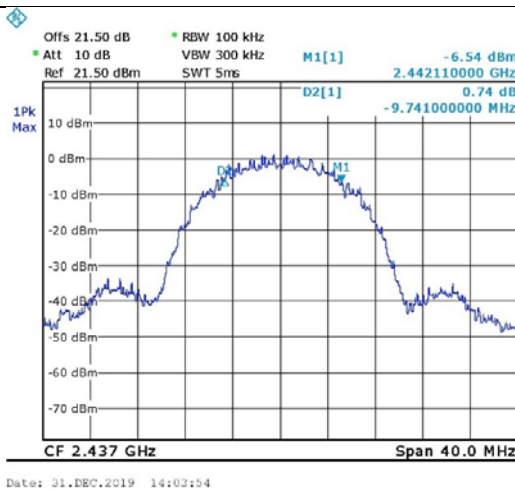


Figure 12. 2437.0 MHz, Wi-fi/b(11Mbit/s)

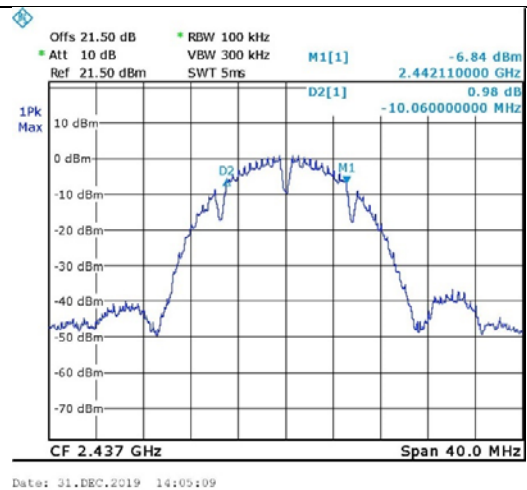


Figure 13. 2437.0 MHz, Wi-fi/b(1Mbit/s)

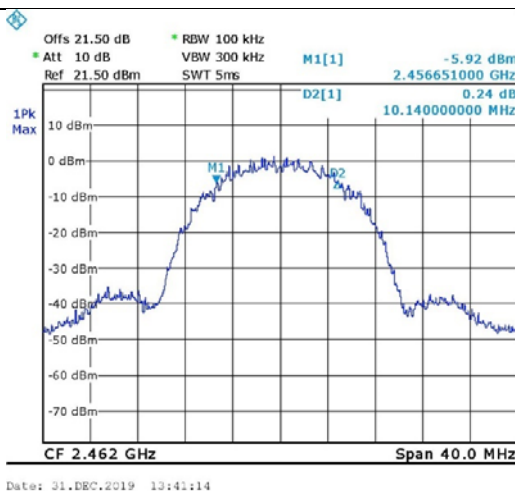


Figure 14. 2462.0 MHz, Wi-fi/b(11Mbit/s)

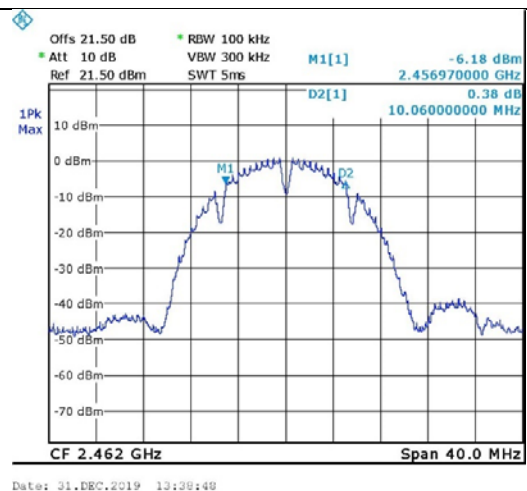


Figure 15. 2462.0 MHz, Wi-fi/b(1Mbit/s)

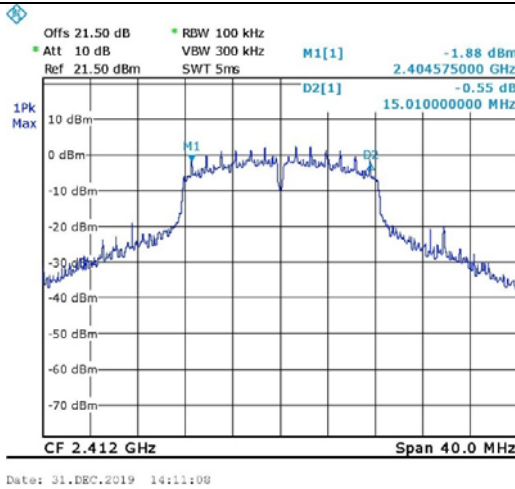


Figure 16. 2412.0 MHz, Wi-fi/g(6Mbit/s)

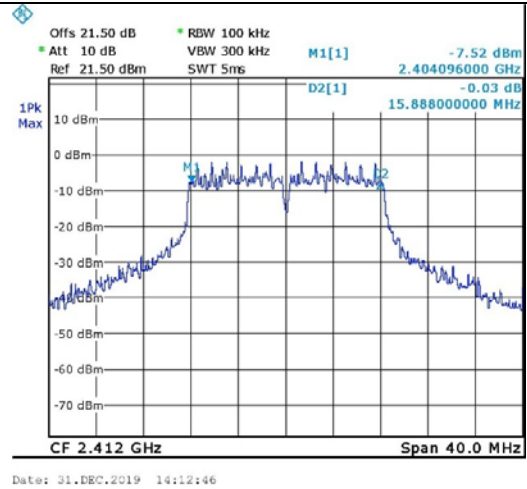


Figure 17. 2412.0 MHz, Wi-fi/g(54Mbit/s)

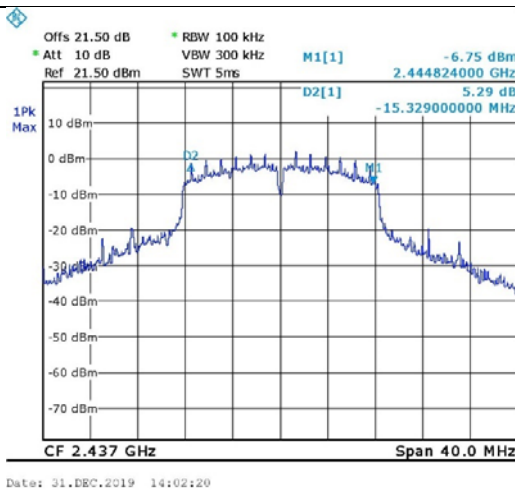


Figure 18. 2437.0 MHz, Wi-fi/g(6Mbit/s)

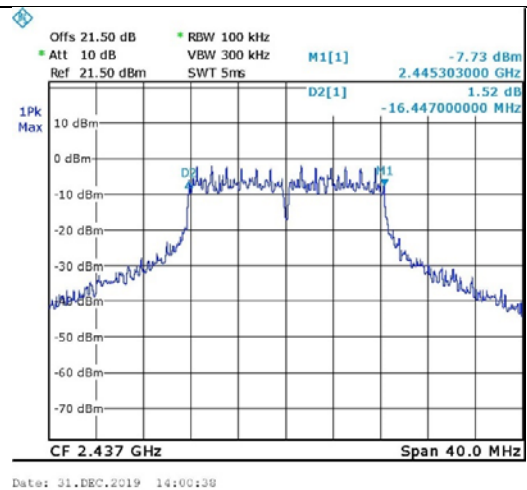


Figure 19. 2437.0 MHz, Wi-fi/g(54Mbit/s)

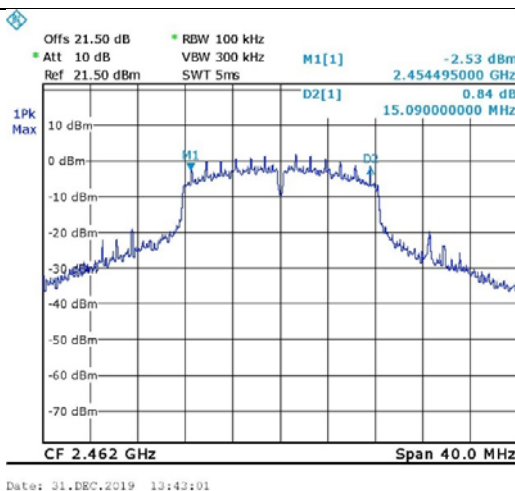


Figure 20. 2462.0 MHz, Wi-fi/g(6Mbit/s)

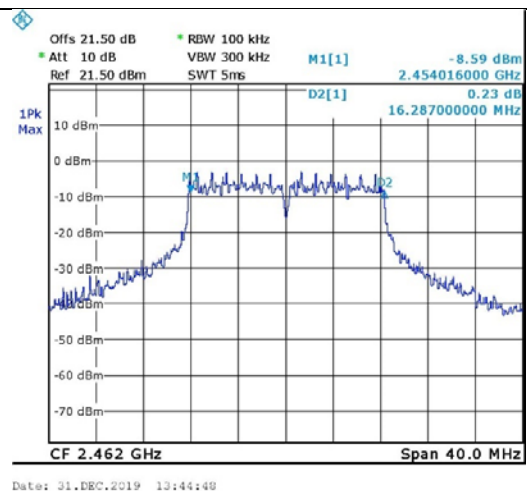


Figure 21. 2462.0 MHz, Wi-fi/g(54Mbit/s)

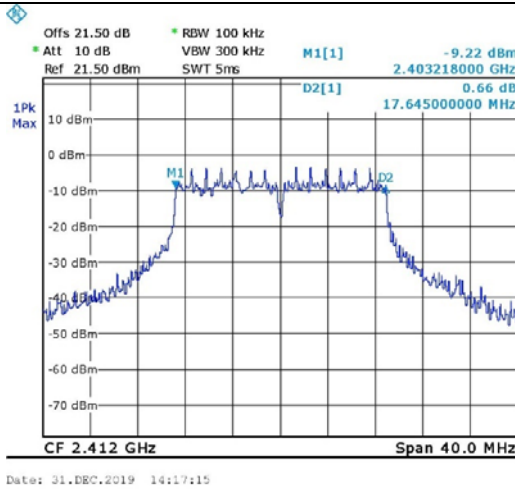


Figure 22. 2412.0 MHz, Wi-fi/n(65Mbit/s)

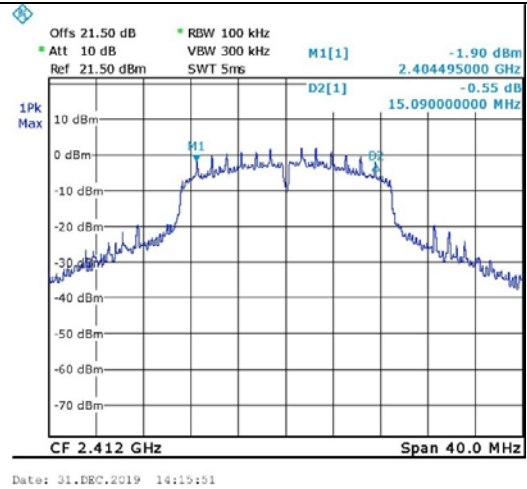


Figure 23. 2412.0 MHz, Wi-fi/n(6.5Mbit/s)

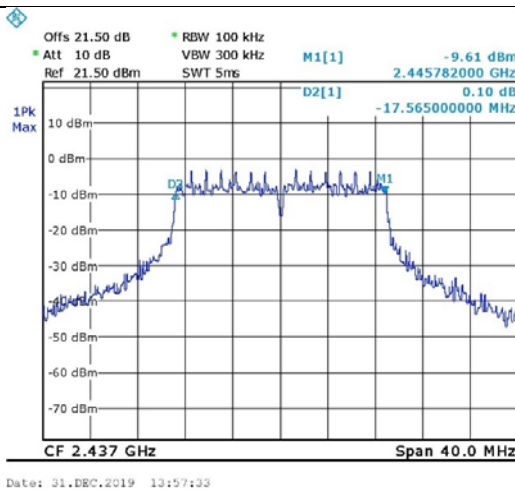


Figure 24. 2437.0 MHz, Wi-fi/n(65Mbit/s)

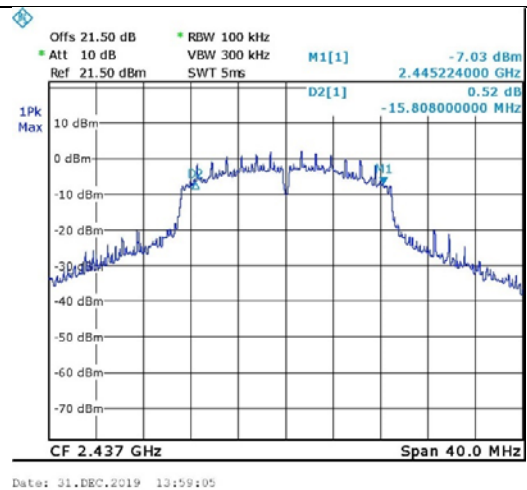


Figure 25. 2437.0 MHz, Wi-fi/n(6.5Mbit/s)

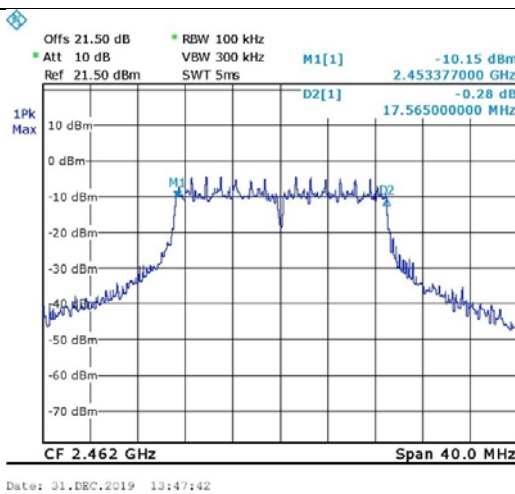


Figure 26. 2462.0 MHz, Wi-fi/n(65Mbit/s)

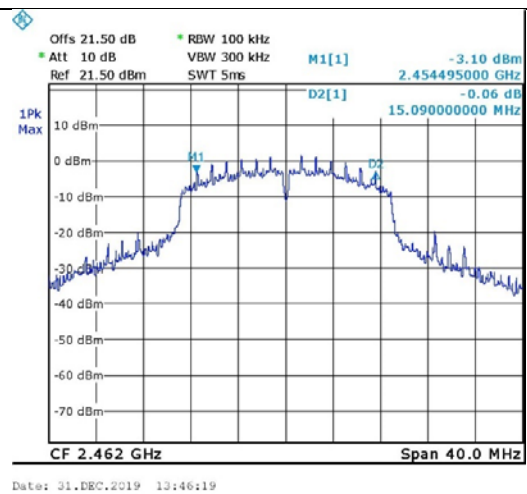


Figure 27. 2462.0 MHz, Wi-fi/n(6.5Mbit/s)



4.5 Test Equipment Used; 6dB Bandwidth

Instrument	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Due
Spectrum Analyzer	R&S	FSL6	100194	March 24, 2019	March 31, 2020
20dB Attenuator	Microwave Midwest	ATT-0217-20-NNN-02	-	December 24, 2019	March 31, 2020
RF Cable	Huber Suner	Sucofelex	27502/4PEA	December 24, 2019	March 31, 2020

Figure 28 Test Equipment Used



5. Maximum Conducted Output Power

5.1 Test Specification

FCC, Part 15, Subpart C, Section 247(b)(3)

RSS 247, Issue 2, Section 5.4(d)

5.2 Test Procedure

(Temperature (20°C)/ Humidity (51%RH))

The E.U.T operation mode and test set-up are as described in Section 2 of this report.

The E.U.T. antenna terminal was connected to the Spectrum Analyzer through an external attenuator and an appropriate coaxial cable (total loss=21.5 dB). Special attention was taken to prevent Spectrum Analyzer RF input overload.

5.3 Test Limit

The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

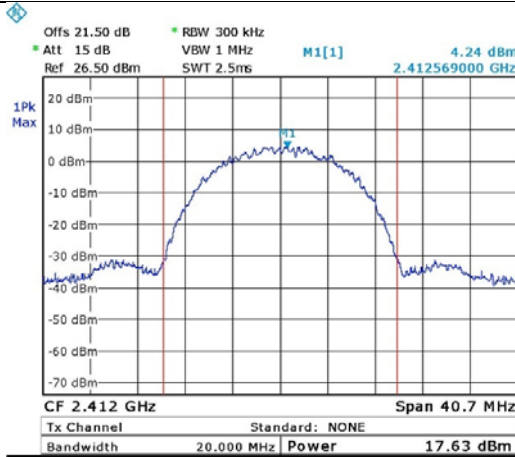
5.4 Test Results

Protocol Type	Operation Frequency	Power	Power	Limit	Margin
	(MHz)	(dBm)	(mW)	(mW)	(mW)
Wi-fi/b(1Mbit/s)	2412.0	14.5	28.18	1000.0	-971.82
	2437.0	14.0	25.12	1000.0	-974.88
	2462.0	13.5	22.39	1000.0	-977.61
Wi-fi/b(11Mbit/s)	2412.0	17.6	57.54	1000.0	-942.46
	2437.0	17.2	52.48	1000.0	-947.52
	2462.0	17.0	50.12	1000.0	-949.88
Wi-fi/g(6Mbit/s)	2412.0	18.8	75.86	1000.0	-924.14
	2437.0	18.2	66.07	1000.0	-933.93
	2462.0	17.6	57.54	1000.0	-942.46
Wi-fi/g(54Mbit/s)	2412.0	15.9	38.90	1000.0	-961.10
	2437.0	14.9	30.90	1000.0	-969.10
	2462.0	14.3	26.92	1000.0	-973.08
Wi-fi/n(6.5Mbit/s)	2412.0	18.6	72.44	1000.0	-927.56
	2437.0	18.3	67.61	1000.0	-932.39
	2462.0	17.9	61.66	1000.0	-938.34
Wi-fi/n(65Mbit/s)	2412.0	14.0	25.12	1000.0	-974.88
	2437.0	14.0	25.12	1000.0	-974.88
	2462.0	13.0	19.95	1000.0	-980.05

Figure 29 Maximum Peak Power Output

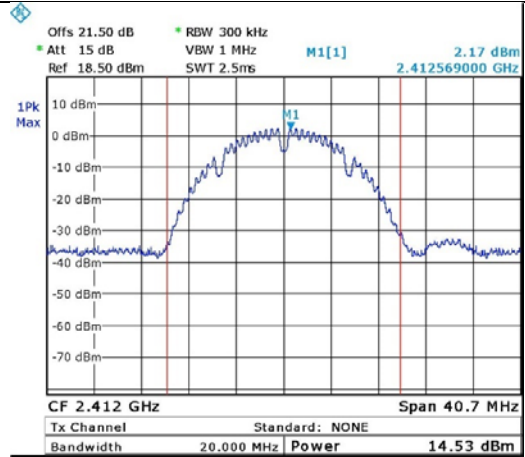
JUDGEMENT: Passed by 924.14 mW

For additional information see *Figure 30 to Figure 47*.



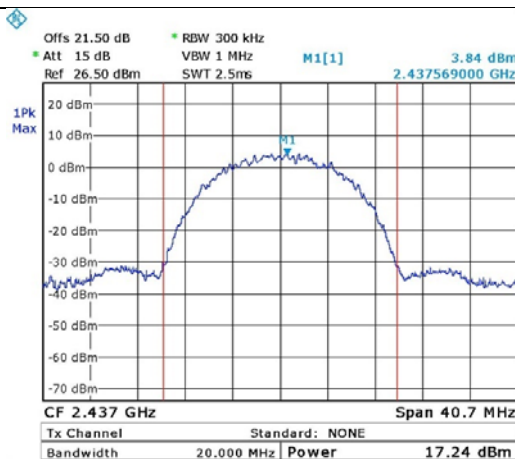
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Figure 30. 2412.0 MHz, Wi-fi/b(11Mbit/s)



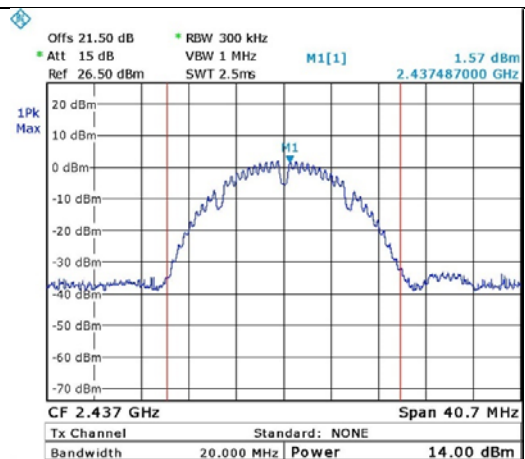
Date: 29.DEC.2019 07:13:02

Figure 31. 2412.0 MHz, Wi-fi/b(1Mbit/s)



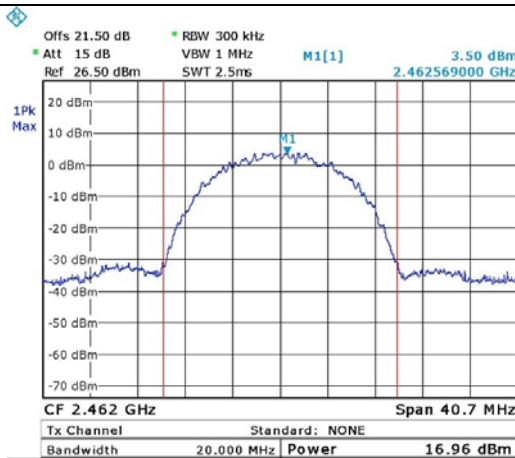
Date: 29.DEC.2019 07:51:37

Figure 32. 2437.0 MHz, Wi-fi/b(11Mbit/s)



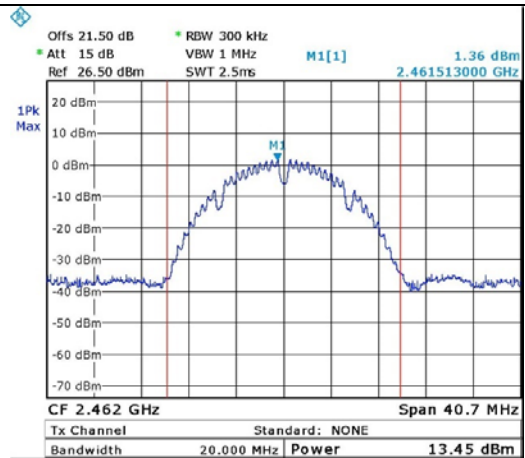
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Figure 33. 2437.0 MHz, Wi-fi/b(1Mbit/s)



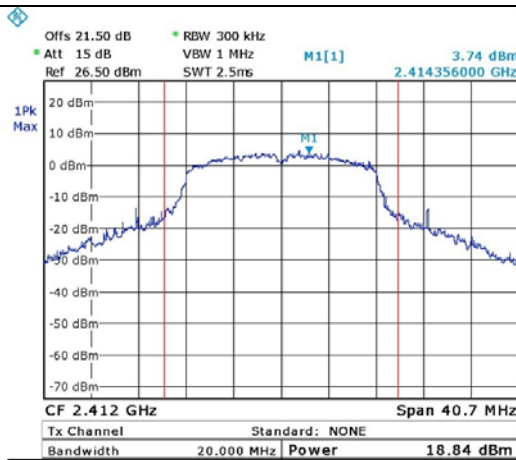
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Figure 34. 2462.0 MHz, Wi-fi/b(11Mbit/s)



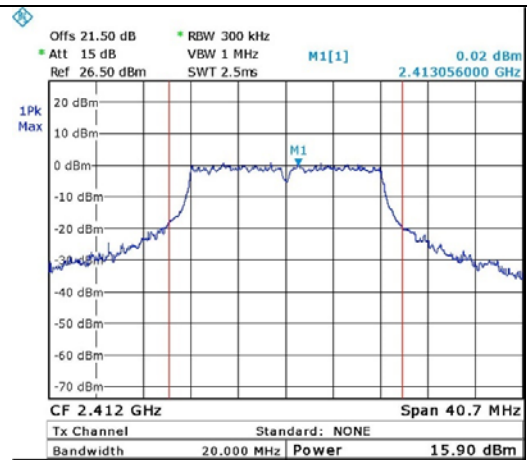
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Figure 35. 2462.0 MHz, Wi-fi/b(1Mbit/s)



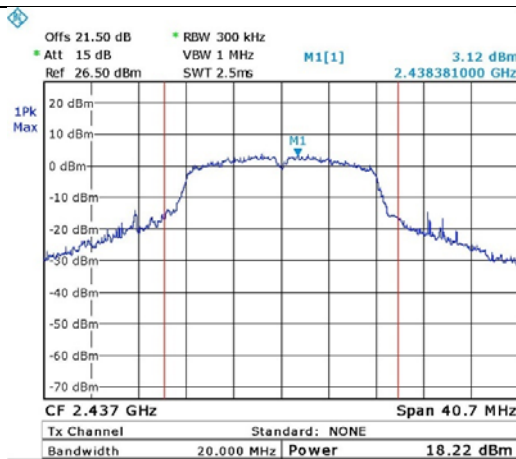
Date: 29.DEC.2019 07:27:41

Figure 36. 2412.0 MHz, Wi-fi/g(6Mbit/s)



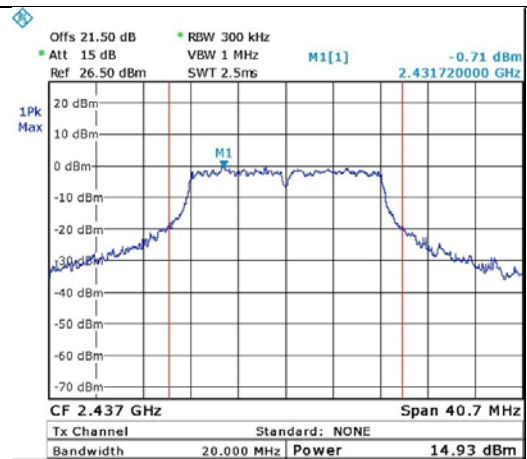
Date: 29.DEC.2019 07:39:03

Figure 37. 2412.0 MHz, Wi-fi/g(54Mbit/s)



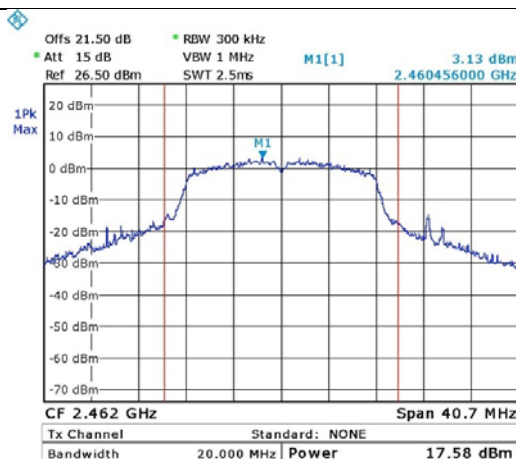
Date: 29.DEC.2019 07:50:23

Figure 38. 2437.0 MHz, Wi-fi/g(6Mbit/s)



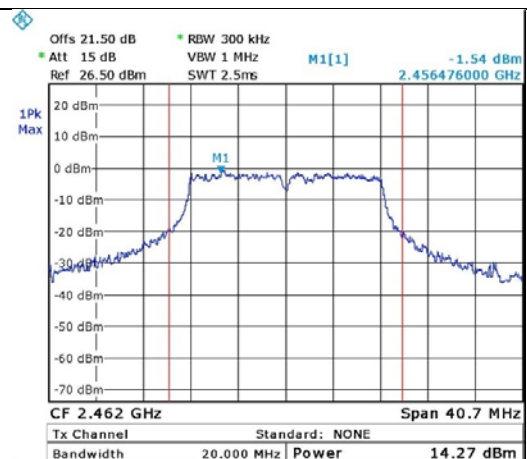
Date: 29.DEC.2019 07:49:34

Figure 39. 2437.0 MHz, Wi-fi/g(54Mbit/s)



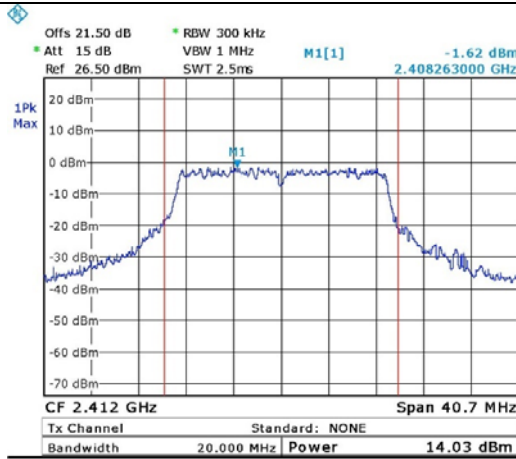
Date: 29.DEC.2019 08:04:37

Figure 40. 2462.0 MHz, Wi-fi/g(6Mbit/s)



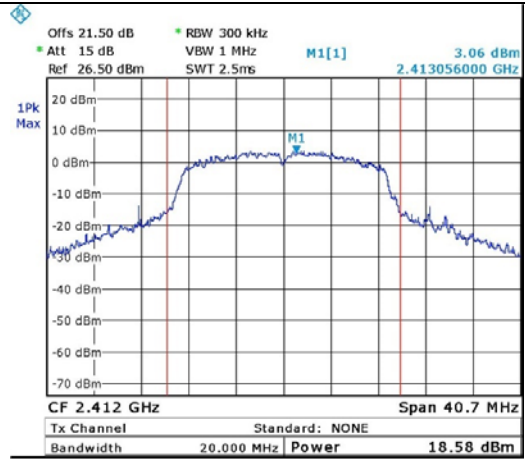
Date: 29.DEC.2019 08:05:44

Figure 41. 2462.0 MHz, Wi-fi/g(54Mbit/s)



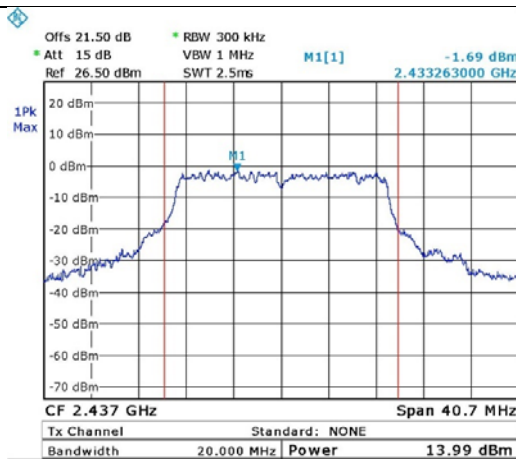
Date: 29.DEC.2019 07:42:02

Figure 42. 2412.0 MHz, Wi-fi/n(65Mbit/s)



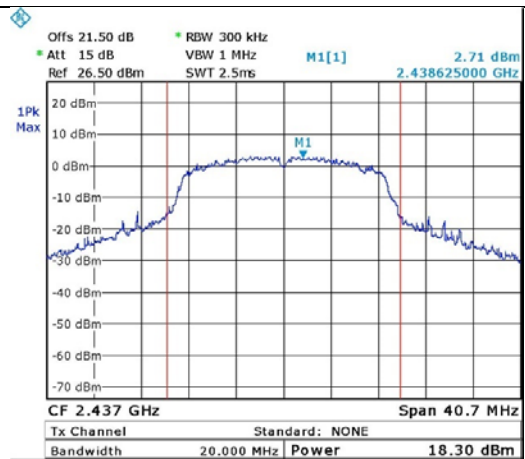
Date: 29.DEC.2019 07:39:57

Figure 43. 2412.0 MHz, Wi-fi/n(6.5Mbit/s)



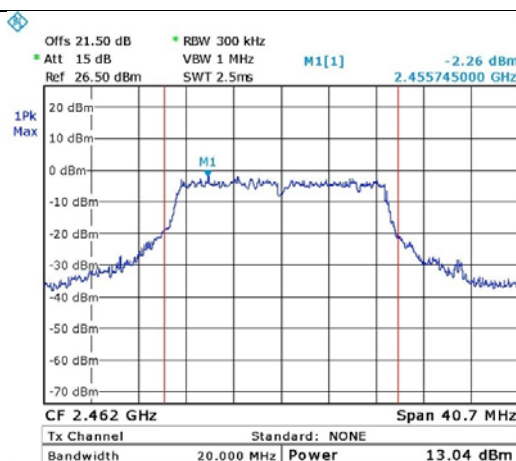
Date: 29.DEC.2019 07:46:54

Figure 44. 2437.0 MHz, Wi-fi/n(65Mbit/s)



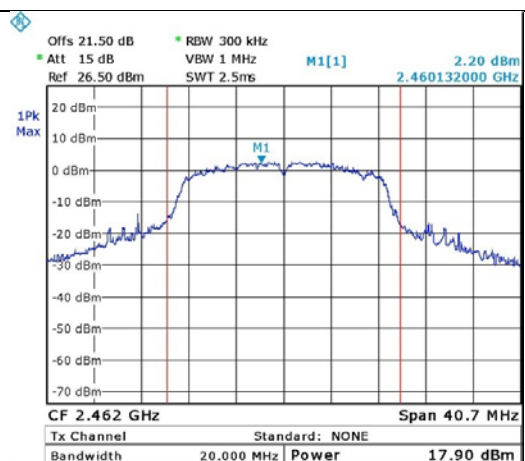
Date: 29.DEC.2019 07:48:10

Figure 45. 2437.0 MHz, Wi-fi/n(6.5Mbit/s)



Date: 29.DEC.2019 08:08:53

Figure 46. 2462.0 MHz, Wi-fi/n(65Mbit/s)



Date: 29.DEC.2019 08:07:20

Figure 47. 2462.0 MHz, Wi-fi/n(6.5Mbit/s)



5.5 Test Equipment Used; Maximum Peak Power Output

Instrument	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Due
Spectrum Analyzer	R&S	FSL6	100194	March 24, 2019	March 31, 2020
20dB Attenuator	Microwave Midwest	ATT-0217-20-NNN-02	-	December 24, 2019	March 31, 2020
RF Cable	Huber Suner	Sucofelex	27502/4PEA	December 24, 2019	March 31, 2020

Figure 48 Test Equipment Used

6. Band Edge Spectrum

6.1 Test Specification

FCC, Part 15, Subpart C, Section 247(d)

RSS 247, Issue 2, Section 5.5

6.2 Test Procedure

(Temperature (20°C)/ Humidity (51%RH))

The E.U.T operation mode and test set-up are as described in Section 2 of this report.

The E.U.T. antenna terminal was connected to the Spectrum Analyzer through an external attenuator and an appropriate coaxial cable (loss=21.5 dB). Special attention was taken to prevent Spectrum Analyzer RF input overload.

The RBW was set to 100 kHz.

6.3 Test Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power.

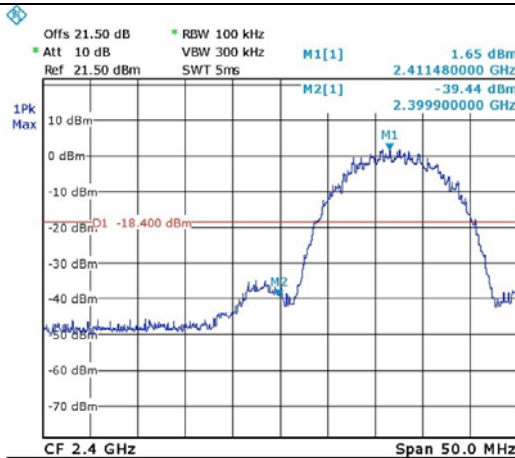
6.4 Test Results

Protocol Type	Operation Frequency	Band Edge Frequency	Spectrum Level	Limit	Margin
	(MHz)	(MHz)	(dBm)	(dBm)	(dB)
Wi-fi/b(1Mbit/s)	2412.0	2400.0	-44.8	-19.0	-25.8
	2462.0	2483.5	-48.4	-19.8	-28.6
Wi-fi/b(11Mbit/s)	2412.0	2400.0	-39.4	-18.4	-21.0
	2462.0	2483.5	-46.5	-18.9	-27.6
Wi-fi/g(6Mbit/s)	2412.0	2400.0	-24.8	-17.4	-7.4
	2462.0	2483.5	-38.8	-18.2	-20.6
Wi-Fi/g(54Mbit/s)	2412.0	2400.0	-31.1	-22.2	-8.9
	2462.0	2483.5	-43.6	-22.2	-21.4
Wi-Fi/n(6.5Mbit/s)	2412.0	2400.0	-24.4	-17.9	-6.5
	2462.0	2483.5	-38.3	-18.6	-19.7
Wi-fi/n(65Mbit/s)	2412.0	2400.0	-34.3	-23.5	-10.8
	2462.0	2483.5	-47.4	-24.4	-23.0

Figure 49 Band Edge Spectrum

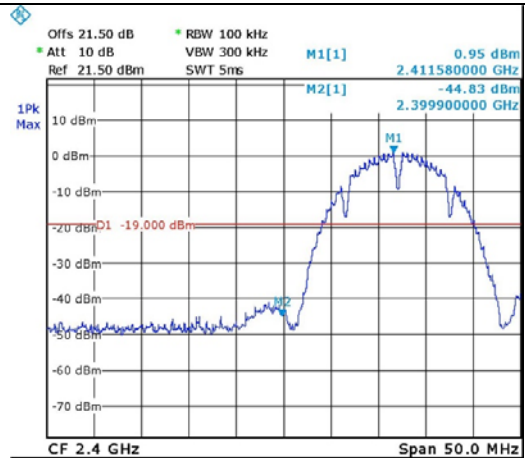
JUDGEMENT: Passed by 6.5 dB

For additional information see *Figure 50* to *Figure 61*.



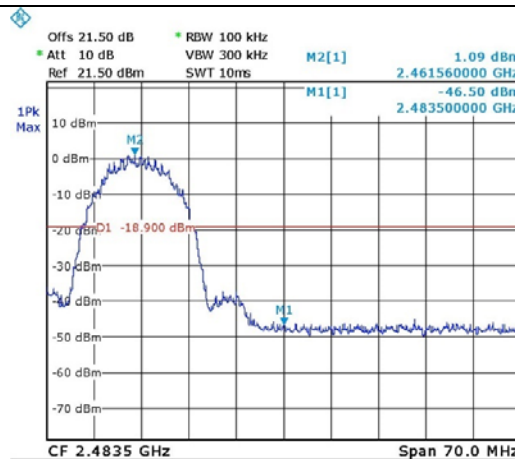
Date: 31.DEC.2019 13:14:37

Figure 50. 2412.0 MHz, Wi-fi/b(11Mbit/s)



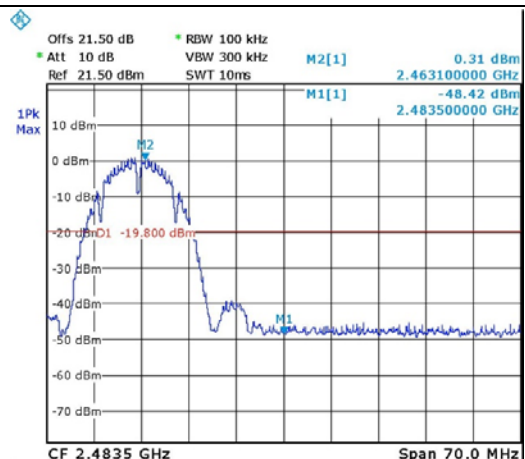
Date: 31.DEC.2019 13:16:07

Figure 51. 2412.0 MHz, Wi-fi/b(1Mbit/s)



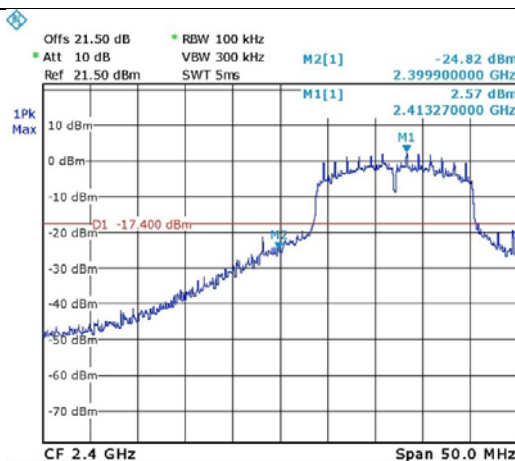
Date: 31.DEC.2019 13:34:36

Figure 52. 2462.0 MHz, Wi-fi/b(11Mbit/s)



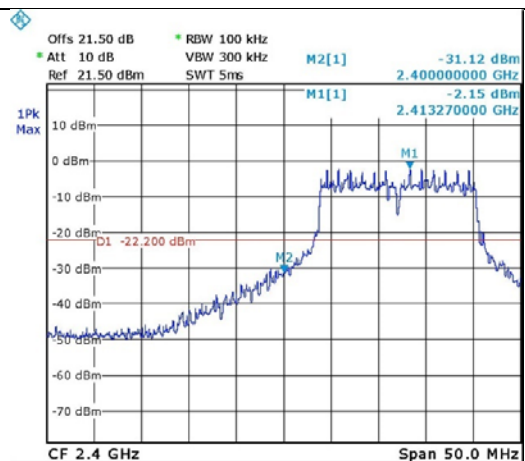
Date: 31.DEC.2019 13:35:36

Figure 53. 2462.0 MHz, Wi-fi/b(1Mbit/s)



Date: 31.DEC.2019 13:13:02

Figure 54. 2412.0 MHz, Wi-fi/g(6Mbit/s)



Date: 31.DEC.2019 13:17:39

Figure 55. 2412.0 MHz, Wi-fi/g(54Mbit/s)

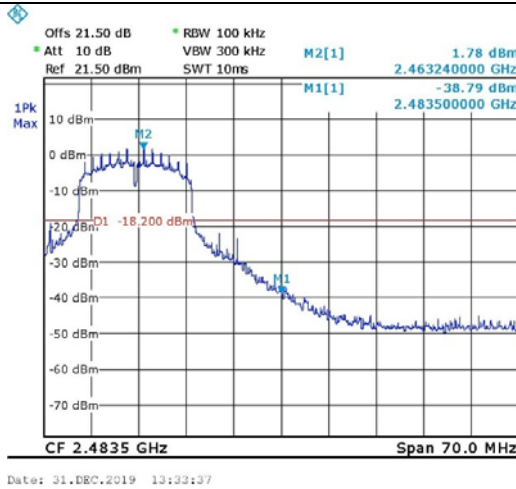


Figure 56. 2462.0 MHz, Wi-fi/g(6Mbit/s)

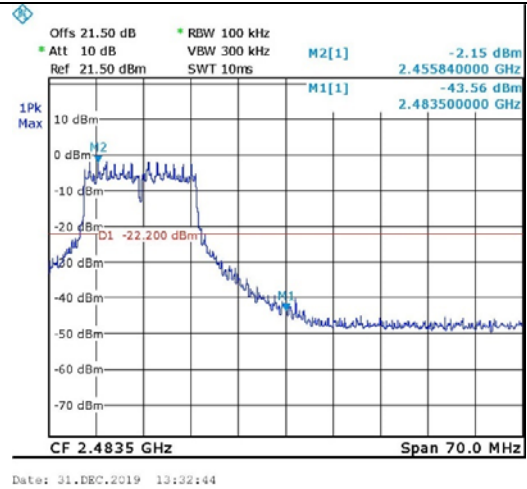


Figure 57. 2462.0 MHz, Wi-fi/g(54Mbit/s)

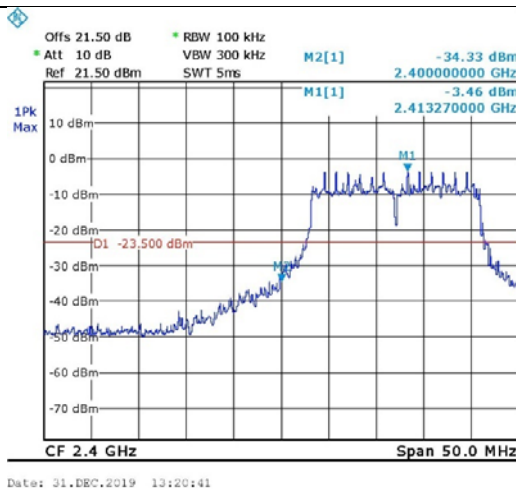


Figure 58. 2412.0 MHz, Wi-fi/n(65Mbit/s)

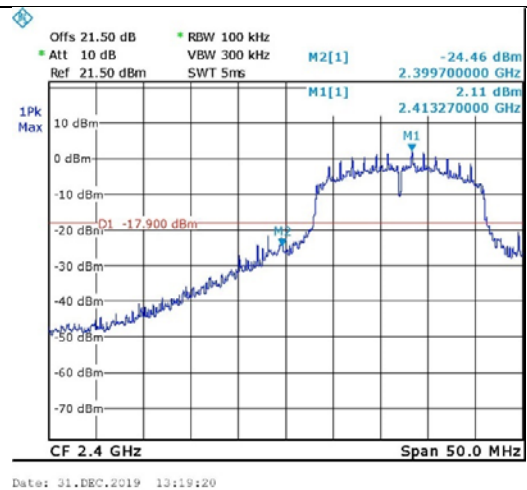


Figure 59. 2412.0 MHz, Wi-fi/n(6.5Mbit/s)

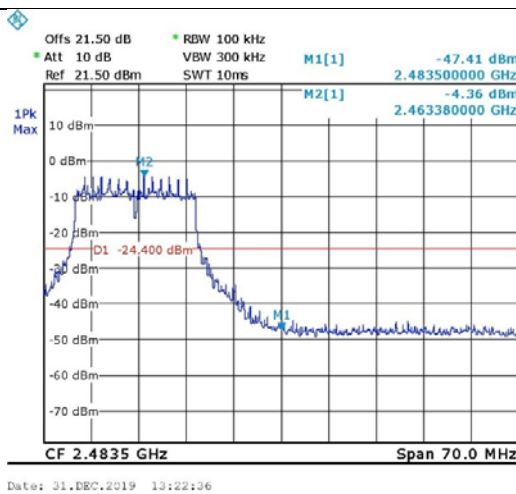


Figure 60. 2462.0 MHz, Wi-fi/n(65Mbit/s)

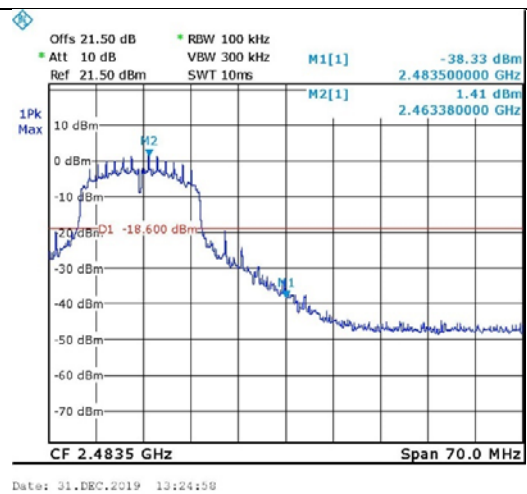


Figure 61. 2462.0 MHz, Wi-fi/n(6.5Mbit/s)



6.5 Test Equipment Used; Band Edge

Instrument	Manufacturer	Model	Serial No.	Last Calibration Date	Next Calibration Due
Spectrum Analyzer	R&S	FSL6	100194	March 24, 2019	March 31, 2020
20dB Attenuator	Microwave Midwest	ATT-0217-20-NNN-02	-	December 24, 2019	March 31, 2020
RF Cable	Huber Suner	Sucofelex	27502/4PEA	December 24, 2019	March 31, 2020

Figure 62 Test Equipment Used