

Report on the Radio Testing
For
Dyson Technology Ltd
on
RB03 Dyson 360 VISNAV
Report no. TRA-047957-45-07B
25th May 2021

RF915 7.0



Report Number: TRA-047957-45-07B
Issue: B

REPORT ON THE RADIO TESTING OF A
Dyson Technology Ltd
RB03 Dyson 360 VISNAV
WITH RESPECT TO SPECIFICATION
FCC 47CFR 15.247

TEST DATE: 2020/06/03 - 2020/12/12

Written by:



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Date:

25th May 2021

Disclaimers:

- [1] THIS DOCUMENT MAY BE REPRODUCED ONLY IN ITS ENTIRETY AND WITHOUT CHANGE
[2] THE RESULTS CONTAINED IN THIS DOCUMENT RELATE ONLY TO THE ITEM(S) TESTED

RF915 7.0

1 Revision Record

<i>Issue Number</i>	<i>Issue Date</i>	<i>Revision History</i>
A	13 th April 2021	Original
B	25 th May 2021	Update after certification check

2 Summary

TEST REPORT NUMBER:	TRA-047957-45-07B
WORKS ORDER NUMBER:	TRA-047957-03
PURPOSE OF TEST:	USA: Testing of radio frequency equipment per the relevant authorization procedure of chapter 47 of CFR (code of federal regulations) Part 2, subpart J..
TEST SPECIFICATION:	47CFR15.247
EQUIPMENT UNDER TEST (EUT):	RB03 Dyson 360 VISNAV
FCC IDENTIFIER:	QVHRB03001
EUT SERIAL NUMBER:	not applicable
MANUFACTURER/AGENT:	Dyson Technology Ltd
ADDRESS:	Tetbury Hill Malmesbury Wiltshire SN16 0RP United Kingdom
CLIENT CONTACT:	Neil Taylor ☎ 01666834364 ✉ neil.taylor@dyson.com
ORDER NUMBER:	6000061185
TEST DATE:	2020/06/03 - 2020/12/12
TESTED BY:	D Garvey / A Tosif / A Longley Element

2.1 Test Summary

Test Method and Description		Requirement Clause	Applicable to this equipment	Result / Note
		47CFR15		
Radiated spurious emissions (restricted bands of operation and cabinet radiation)		15.205	☒	PASS
AC power line conducted emissions		15.207	☒	PASS
Occupied bandwidth		15.247(a)(2)	☒	PASS
Conducted carrier power	Peak	15.247(b)(3)	☒	PASS
	Max.		☐	
Conducted / radiated RF power out-of-band		15.247(d)	☒	PASS
Power spectral density, conducted		15.247(e)	☒	PASS

Notes:

The results contained in this report relate only to the items tested, in the condition at time of test, and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

The apparatus was set up and exercised using the configurations, modes of operation and arrangements defined in this report only. Any modifications made are identified in Section 8 of this report.

Particular operating modes, apparatus monitoring methods and performance criteria required by the standards tested to have been performed except where identified in Section 5.2 of this test report (Deviations from Test Standards).

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4 Introduction

This report TRA-047957-45-07B presents the results of the Radio testing on a Dyson Technology Ltd, RB03 Dyson 360 VISNAV to specification 47CFR15 Radio Frequency Devices.

The testing was carried out for Dyson Technology Ltd by Element, at the address detailed below.

☒	Element Hull Unit E South Orbital Trading Park Hedon Road Hull HU9 1NJ UK	☐	Element Skelmersdale Unit 1 Pendle Place Skelmersdale West Lancashire WN8 9PN UK
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This report details the configuration of the equipment, the test methods used and any relevant modifications where appropriate.

All test and measurement equipment under the control of the laboratory and requiring calibration is subject to an established programme and procedures to control and maintain measurement standards. The quality management system meets the principles of ISO 9001, and has quality control procedures for monitoring the validity of tests undertaken. Records and sufficient detail are retained to establish an audit trail of calibration records relating to its test results for a defined period. Under control of the established calibration programme, key quantities or values of the test & measurement instrumentation are within specification and comply with the relevant traceable internationally recognised and appropriate standard specifications, which are UKAS calibrated as such where these properties have a significant effect on results. Participation in inter-laboratory comparisons and proficiency testing ensures satisfactory correlation of results conform to Elements own procedures, as well as statistical techniques for analysis of test data providing the appropriate confidence in measurements.

Throughout this report EUT denotes equipment under test.

FCC Site Listing:

Element is accredited for the above sites under the US-UK MRA, designation numbers:

UK2007 Hull
UK2020 Skelmersdale

The test site requirements of ANSI C63.4-2014 are met up to 1GHz.

The test site SVSWR requirements of CISPR 16-1-4:2010 are met over the frequency range 1 GHz to 18 GHz.

5 Test Specifications

5.1 Normative References

- FCC 47 CFR Ch. I – Part 15 – Radio Frequency Devices.
- ANSI C63.10-2013 – American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
- ANSI C63.4-2014 – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

5.2 Deviations from Test Standards

There were no deviations from the test standard.

6 Glossary of Terms

§	denotes a section reference from the standard, not this document
AC	Alternating Current
ANSI	American National Standards Institute
BW	bandwidth
C	Celsius
CFR	Code of Federal Regulations
CW	Continuous Wave
dB	decibel
dBm	dB relative to 1 milliwatt
DC	Direct Current
DSSS	Direct Sequence Spread Spectrum
EIRP	Equivalent Isotropically Radiated Power
ERP	Effective Radiated Power
EUT	Equipment Under Test
FCC	Federal Communications Commission
FHSS	Frequency Hopping Spread Spectrum
Hz	hertz
IC	Industry Canada
ITU	International Telecommunication Union
LBT	Listen Before Talk
m	metre
max	maximum
MIMO	Multiple Input and Multiple Output
min	minimum
MRA	Mutual Recognition Agreement
N/A	Not Applicable
PCB	Printed Circuit Board
PDF	Portable Document Format
Pt-mpt	Point-to-multipoint
Pt-pt	Point-to-point
RF	Radio Frequency
RH	Relative Humidity
RMS	Root Mean Square
Rx	receiver
s	second
SVSWR	Site Voltage Standing Wave Ratio
Tx	transmitter
UKAS	United Kingdom Accreditation Service
V	volt
W	watt
Ω	ohm

7 Equipment Under Test

7.1 EUT Identification

- Name: RB03 Dyson 360 VISNAV
- Serial Number: not applicable
- Model Number: Dyson Robotic Vacuum Cleaner
- Software Revision: Not Applicable
- Build Level / Revision Number: Not Applicable

7.2 System Equipment

Equipment listed below forms part of the overall test setup and is required for equipment functionality and/or monitoring during testing. The compliance levels achieved in this report relate only to the EUT and not items given in the following list.

Lenovo ThinkPad X230 Laptop PC

7.3 EUT Mode of Operation

7.3.1 Transmission

The mode of operation for Transmit tests was as follows:

EUT transmitting permanent modulated carrier (802.11b/g/n-20/n-40) on bottom, middle and top channels. The following tables show the power setting for different modes.

2.4 GHz Wi-Fi SISO		
Modulation	Data Rate	Power Setting
802.11b	1 Mbps	12
802.11b	11 Mbps	12
802.11g	6 Mbps	14
802.11g	54 Mbps	14
802.11n20	MCS0	13
802.11n20	MCS7	13
802.11n40	MCS0	12
802.11n40	MCS7	12

2.4 GHz Wi-Fi MIMO		
Modulation	Data Rate	Power Setting (Port A/B)
802.11n20 MIMO	MCS8	13
802.11n20 MIMO	MCS15	13
802.11n40 MIMO	MCS8	12
802.11n40 MIMO	MCS15	12

7.4 EUT Radio Parameters

Frequency of operation:	2412 MHz – 2462 MHz
Modulation types:	DQPSK, DBPSK, DSSS, CCK and OFDM
Channel bandwidths:	20 MHz and 40 MHz
Channel spacing:	5 MHz
Antenna type:	Two Integral Antennas
Maximum antenna gain:	Main Antenna: 4.0 dBi; AUX Antenna: 5.0 dBi
Nominal Supply Voltage:	5 Vdc from internal power supply

7.5 EUT Description

The EUT is an autonomous Vacuum Cleaning Robot and Dock that has Bluetooth Low Energy, 2.4 GHz Wi-Fi and 5 GHz Wi-Fi Radios. This test report only covers testing of the 2.4 GHz Wi-Fi.

8 Modifications

No modifications were performed during this assessment.

9 EUT Test Setup

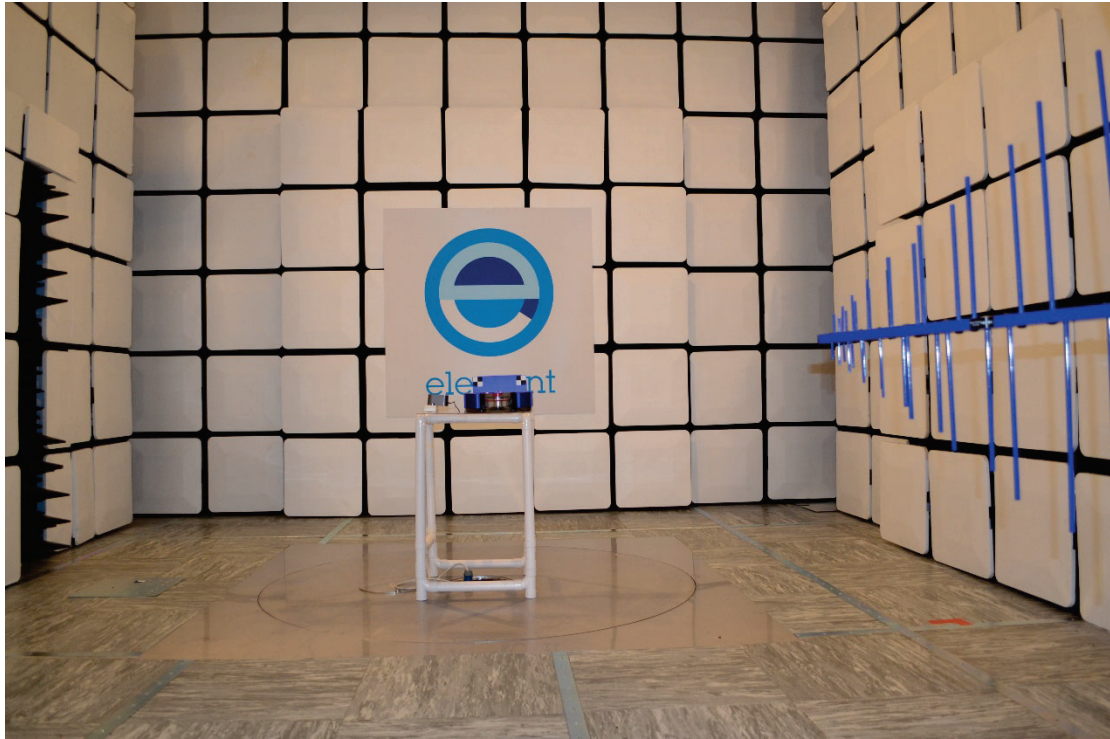
9.1 Block Diagram

The following diagram shows basic EUT interconnections:



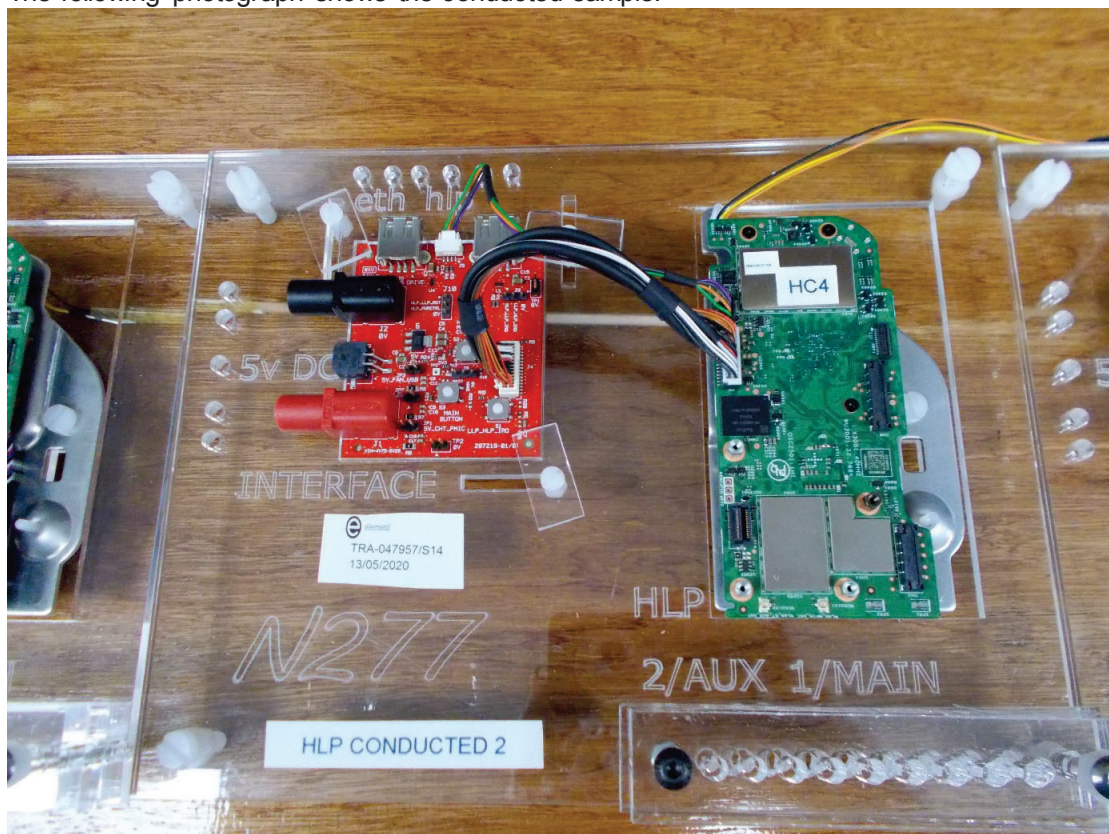
9.2 General Set-up Photograph

The following photograph shows basic EUT set-up:





The following photograph shows the conducted sample:



9.3 *Measurement software*

Where applicable, the following software was used to perform measurements contained within this report.

Element Emissions R5 (See Note)

Note: The version of the Element software used is recorded in the results sheets contained within this report.

10 General Technical Parameters

10.1 Normal Conditions

The EUT was tested under the normal environmental conditions of the test laboratory, except where otherwise stated. The normal power source applied was 5 Vdc from an internal power supply which was powered from a 14.8 Vdc fully charged battery, with charging station connected to 110 Vac, 60 Hz, from the mains. For conducted testing, 5 Vdc was supplied from desktop power supply.

10.2 Varying Test Conditions

There are no specific frequency stability requirements for the type of device. The results contained in this report demonstrate that the occupied bandwidth is contained within the authorised band and the manufacturer has declared sufficient frequency stability (refer to section 7.4).

Variation of supply voltage is required to ensure stability of the declared output power. During carrier power testing the following variations were made:

	Category	Nominal	Variation
☐	Mains	110 V ac +/- 2 %	85 % and 115 %
☒	Internal Power Supply	5 Vdc	N/A

11 Radiated emissions

11.1 Definitions

Spurious emissions

Emissions on a frequency or frequencies, which are outside the necessary bandwidth and the level of which may be reduced without affecting the corresponding transmission of information. Spurious emissions include harmonic emissions, parasitic emissions, intermodulation products and frequency conversion products, but exclude out-of-band emissions.

Restricted bands

A frequency band in which intentional radiators are permitted to radiate only spurious emissions but not fundamental signals.

11.2 Test Parameters

Test Location:	Element Hull
Test Chamber:	Wireless Lab 3
Test Standard and Clause:	ANSI C63.10-2013, Clause 6.5 and 6.6
EUT Channels / Frequencies Measured:	20 MHz CH 1 - 6 - 11 / 2412 MHz - 2442 MHz - 2462 MHz 40 MHz CH 1 - 4 - 7 / 2422 MHz - 2432 MHz - 2452 MHz
EUT Channel Bandwidths:	20 MHz & 40 MHz
Deviations From Standard:	None
Measurement BW:	30 MHz to 1 GHz: 120 kHz Above 1 GHz: 1 MHz
Measurement Detector:	Up to 1 GHz: quasi-peak Above 1 GHz: RMS average and Peak

Environmental Conditions (Normal Environment)

Temperature: 21 °C	+15 °C to +35 °C (as declared)
Humidity: 40 % RH	20 % RH to 75 % RH (as declared)
Supply: 110 Vac	As declared

11.3 Test Limit

Unwanted emissions that fall within the restricted frequency bands shall comply with the limits specified:

General Field Strength Limits for License-Exempt Transmitters at Frequencies above 30 MHz

<i>Frequency (MHz)</i>	<i>Field Strength (μV/m at 3 m)</i>
30 to 88	100
88 to 216	150
216 to 960	200
Above 960	500

11.4 Test Method

With the EUT setup as per section 9 of this report and connected as per Figure i, the emissions from the EUT were measured on a spectrum analyzer / EMI receiver.

Radiated electromagnetic emissions from the EUT are checked first by preview scans. Preview scans for all spectrum and modulation characteristics are checked, using a peak detector and where applicable worst-case determined for function, operation, orientation, etc. for both vertical and horizontal polarisations. Pre-scan plots are shown with a peak detector and 100 kHz RBW.

If the EUT connects to auxiliary equipment and is table or floor standing, the configurations prescribed in ANSI C63.10 are followed. Alternatively, a layout closest to normal use (as declared by the provider) is employed, (see EUT setup photographs for more detail).

Emissions between 30 MHz and 1 GHz are measured using calibrated broadband antennas. Emissions above 1 GHz are characterized using standard gain horn antennas. Pre-amplifiers and filters are used where required. Care is taken to ensure that test receiver resolution bandwidth, video bandwidth and detector type(s) meet the regulatory requirements.

For both horizontal and vertical polarizations, the EUT is then rotated through 360 degrees in azimuth until the highest emission is detected. At the previously determined azimuth the test antenna is raised and lowered from 1 to 4 m in height until a maximum emission level is detected, this maximum value is recorded.

Power values measured on the test receiver / analyzer are converted to field strength, FS, in dBμV/m at the regulatory distance, using:

$$FS = PR + CL + AF - PA + DC - CF$$

Where,

PR is the power recorded on the receiver / spectrum analyzer in dBμV;

CL is the cable loss in dB;

AF is the test antenna factor in dB/m;

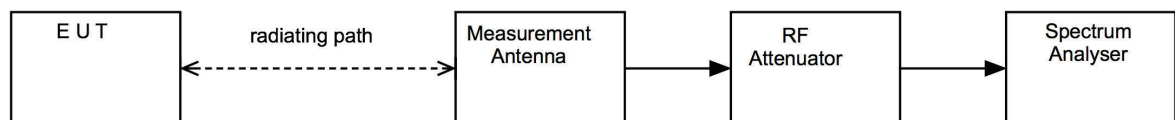
PA is the pre-amplifier gain in dB (where used);

DC is the duty correction factor in dB (where used, e.g. harmonics of pulsed fundamental);

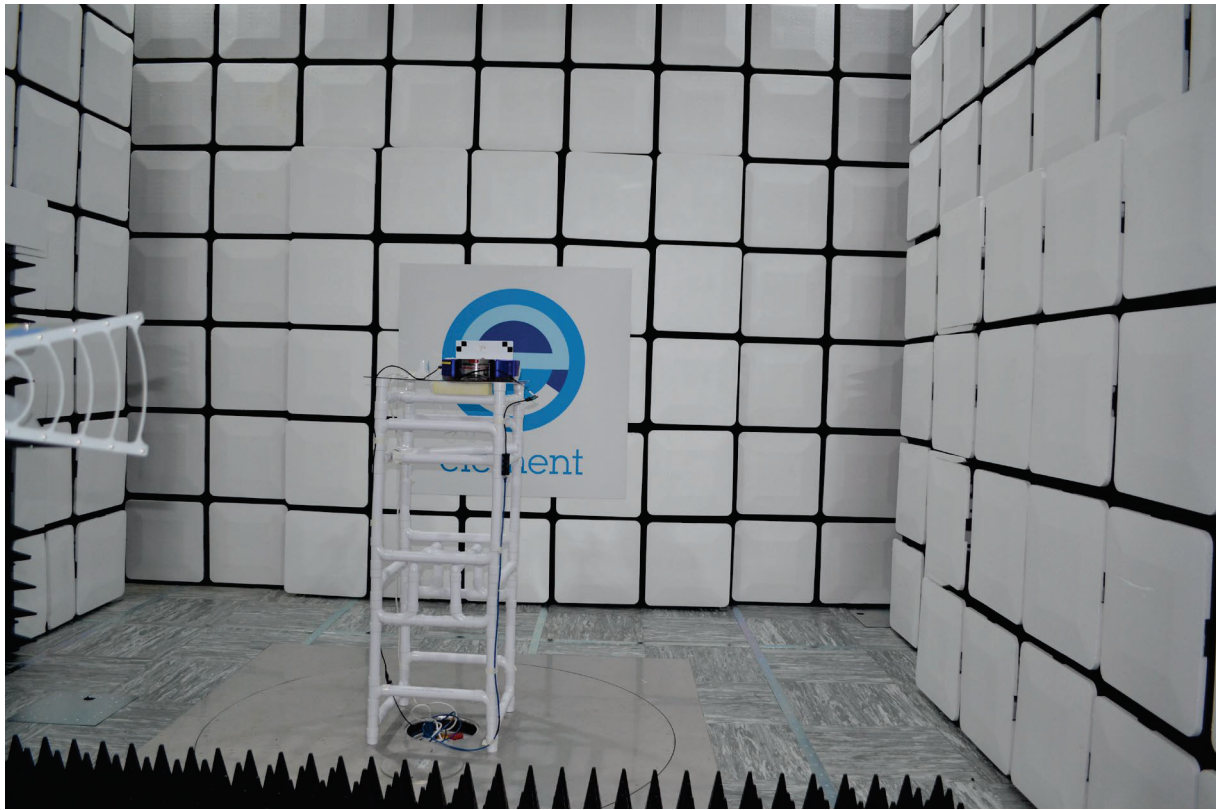
CF is the distance factor in dB (where measurement distance different to limit distance);

This field strength value is then compared with the regulatory limit.

Figure i Test Setup



11.5 Test Set-up Photograph



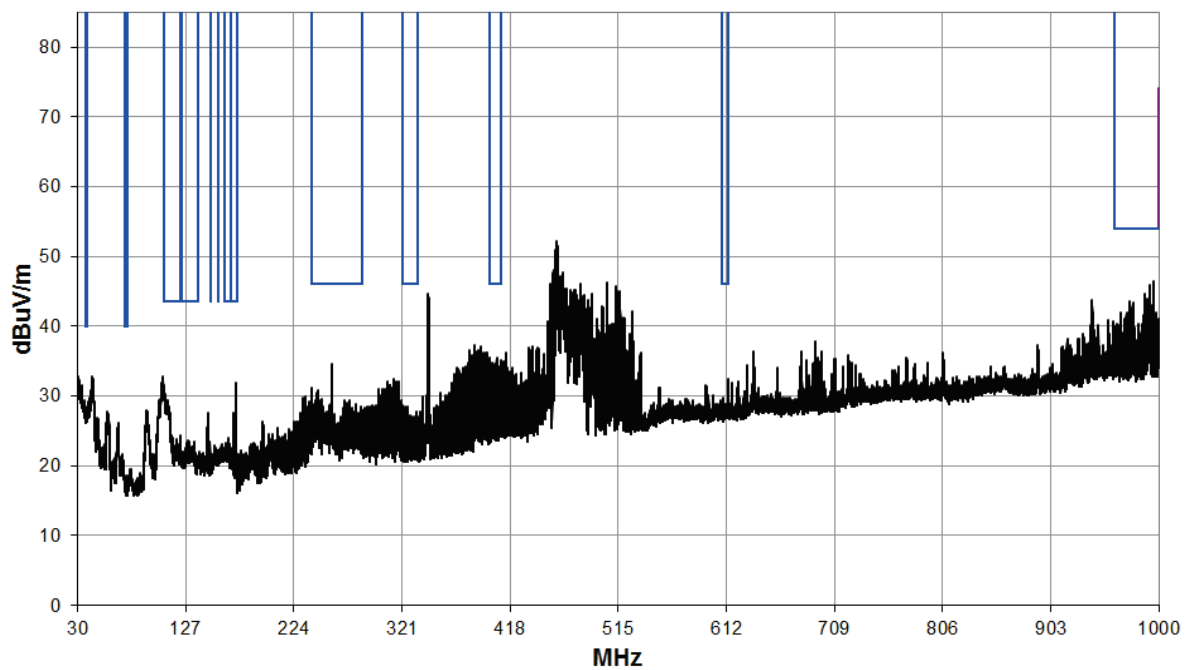
11.6 Test Equipment

Equipment Type	Manufacturer	Equipment Description	Element No	Due For Calibration
Ferrite Lined Chamber	Rainford	Chamber	REF2259	2022-08-03
EMI Test Receiver	R&S	ESW26	REF2235	2021-08-31
Bilog Antenna	Chase	CBL6111B	REF2218	2021-10-23
Horn Antenna	A Info Inc	LB-10180-NF	REF2241	2022-07-13
LB-90-25-C2-SF	A Info Inc	Horn Antenna	REF2243	2022-07-17
LB-62-25-C-SF	A Info Inc	Horn Antenna	REF2244	2022-07-17
LB-180400-25-C-KF	A Info Inc	Horn Antenna	REF2246	2022-07-28
Emissions R5	Element	Radiated Test Software	REF9000	Cal not required

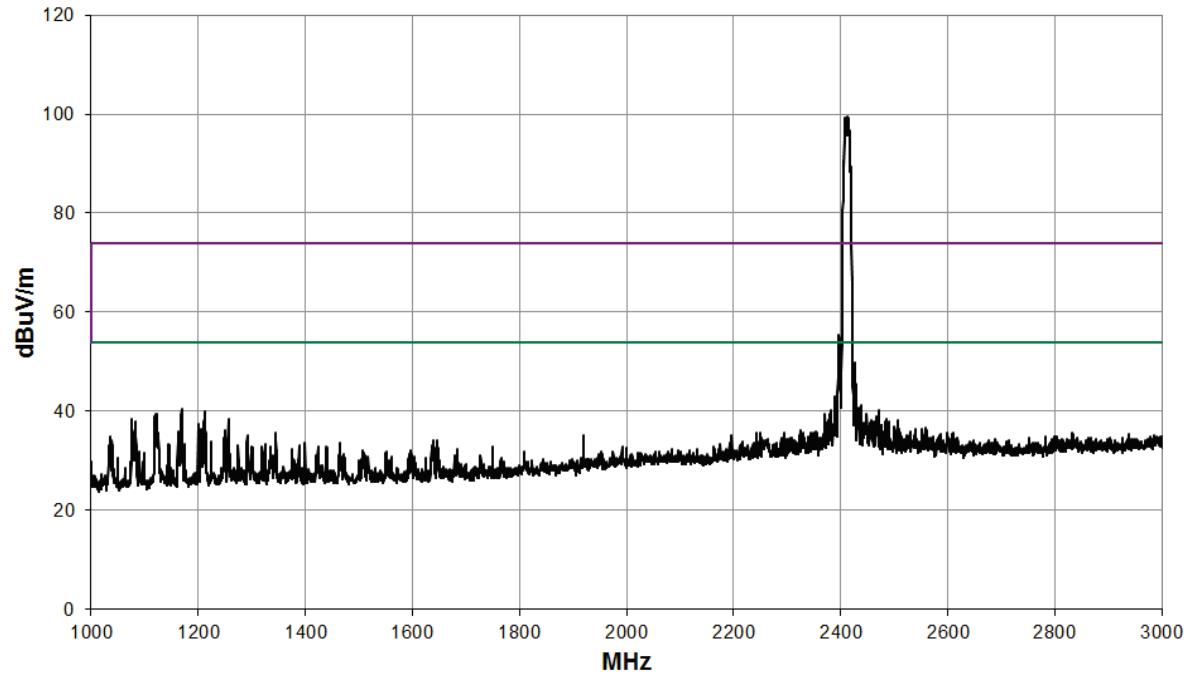
11.7 Test Results

Mode: 802.11b; Channel: CH1; Frequency: 2412 MHz; Rate: 1 Mbps; Power Setting: 12;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4824.0	8.4	5.4	33.3	0.0	0.0	0.0	47.1	226.5	500
PK	4824.2	15.5	5.4	33.3	0.0	0.0	0.0	54.2	512.9	5000
AV	12061.7	7.6	9.0	30.4	0.0	0.0	0.0	43.5	149.6	500
AV	14472.0	13.0	10.5	31.3	0.0	0.0	0.0	45.3	184.1	500

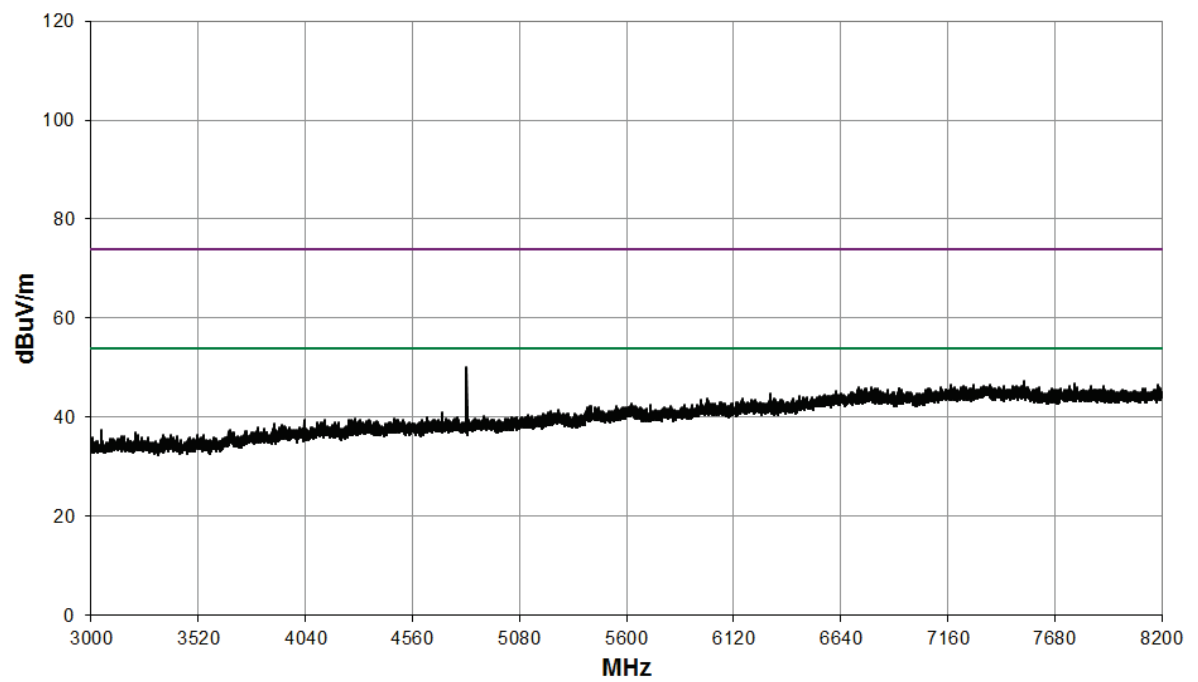
30 MHz to 1 GHz



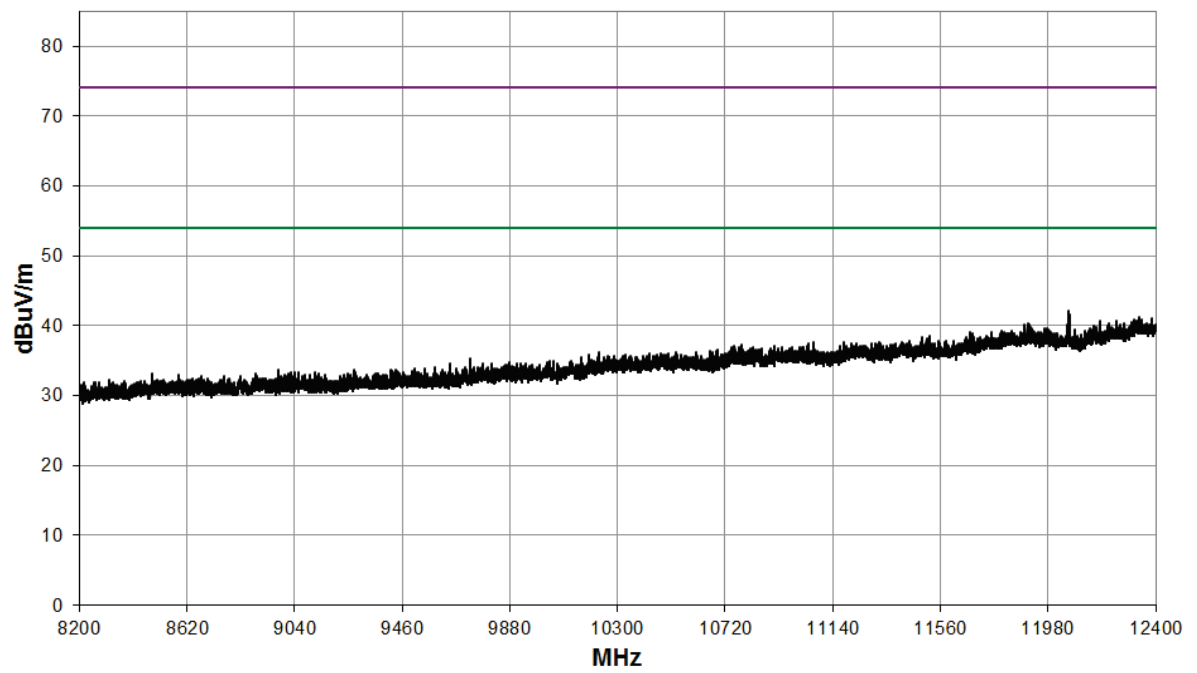
1 GHz to 3 GHz



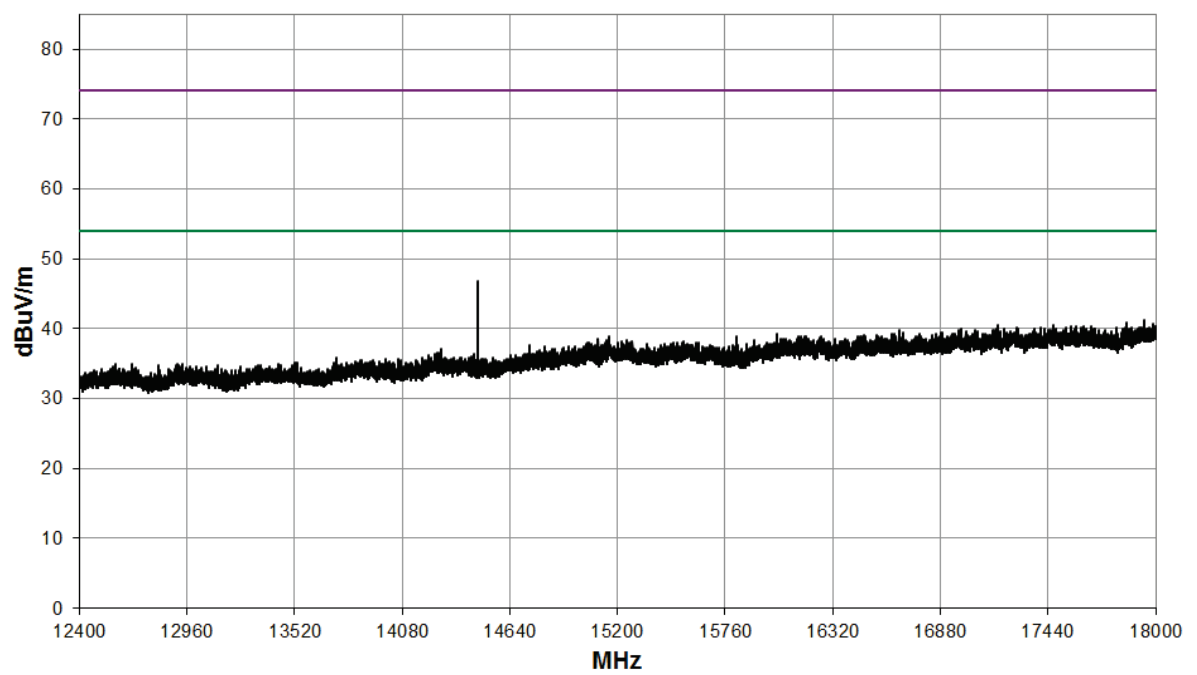
3 GHz to 8.2 GHz



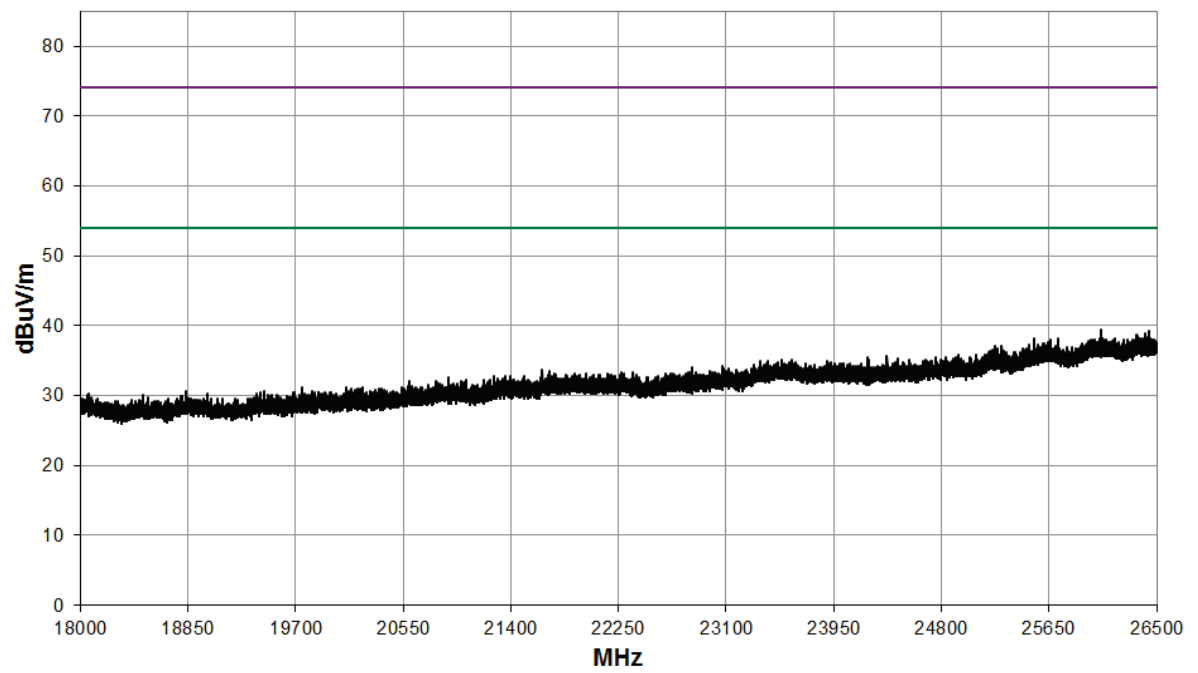
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

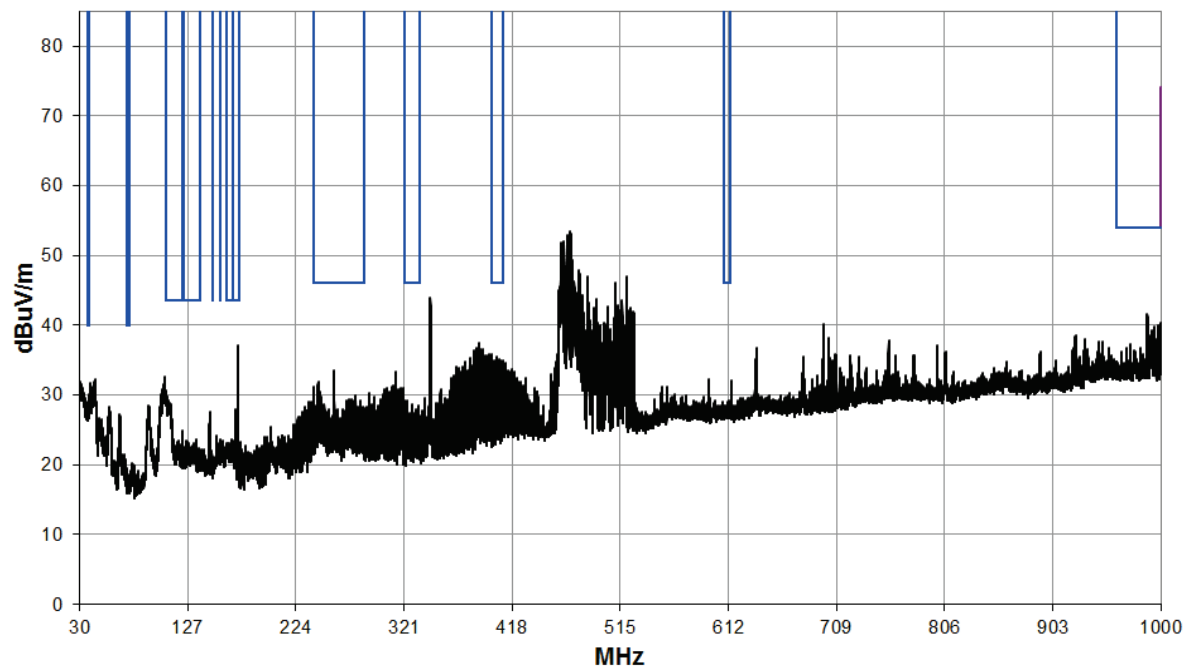


18 GHz to 26.5 GHz

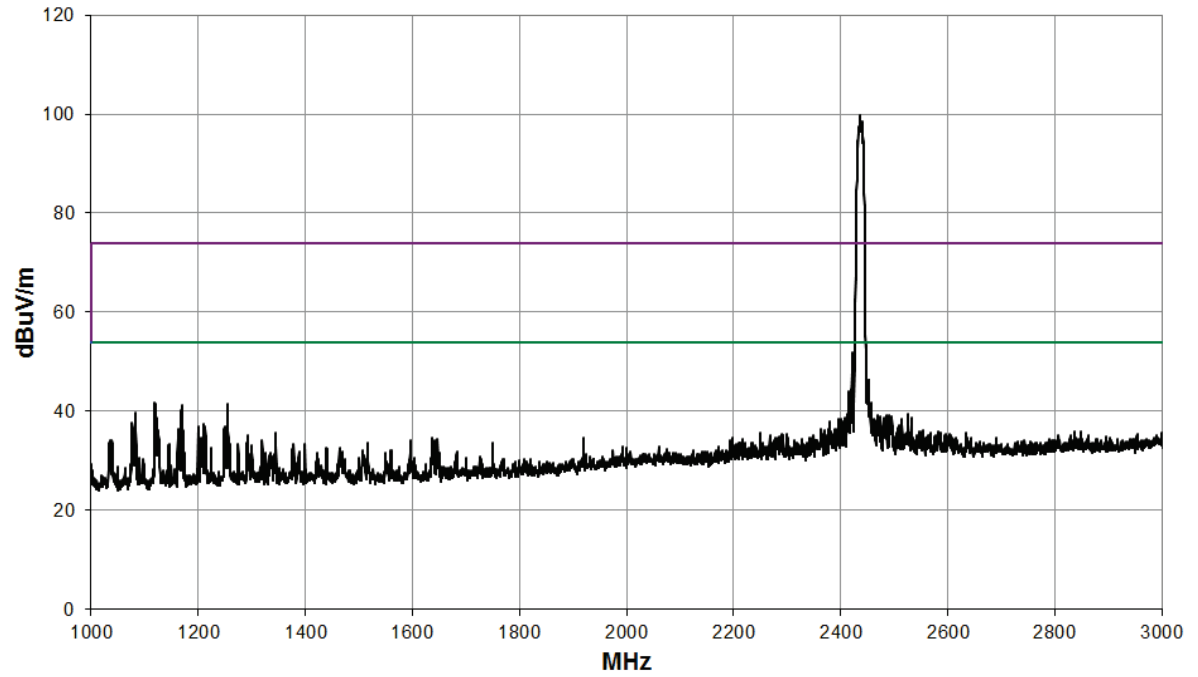


Mode: 802.11b; Channel: CH6; Frequency: 2437 MHz; Rate: 1 Mbps; Power Setting: 12;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4873.9	9.3	5.4	33.3	0.0	0.0	0.0	48.0	251.2	500
PK	4873.9	16.2	5.4	33.3	0.0	0.0	0.0	54.9	555.9	5000
AV	12185.7	11.4	9.1	30.2	0.0	0.0	0.0	47.2	229.1	500
PK	12185.9	20.1	9.1	30.2	0.0	0.0	0.0	55.9	623.7	5000
AV	14622.0	5.2	10.5	31.9	0.0	0.0	0.0	37.1	71.6	500

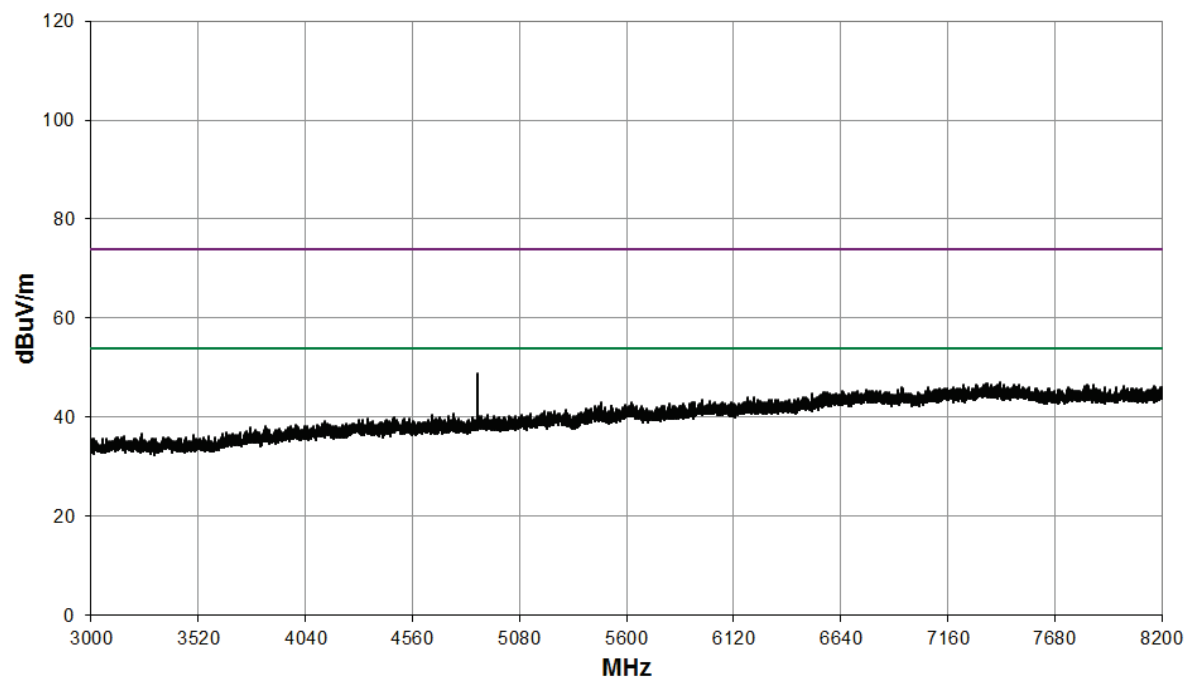
30 MHz to 1 GHz



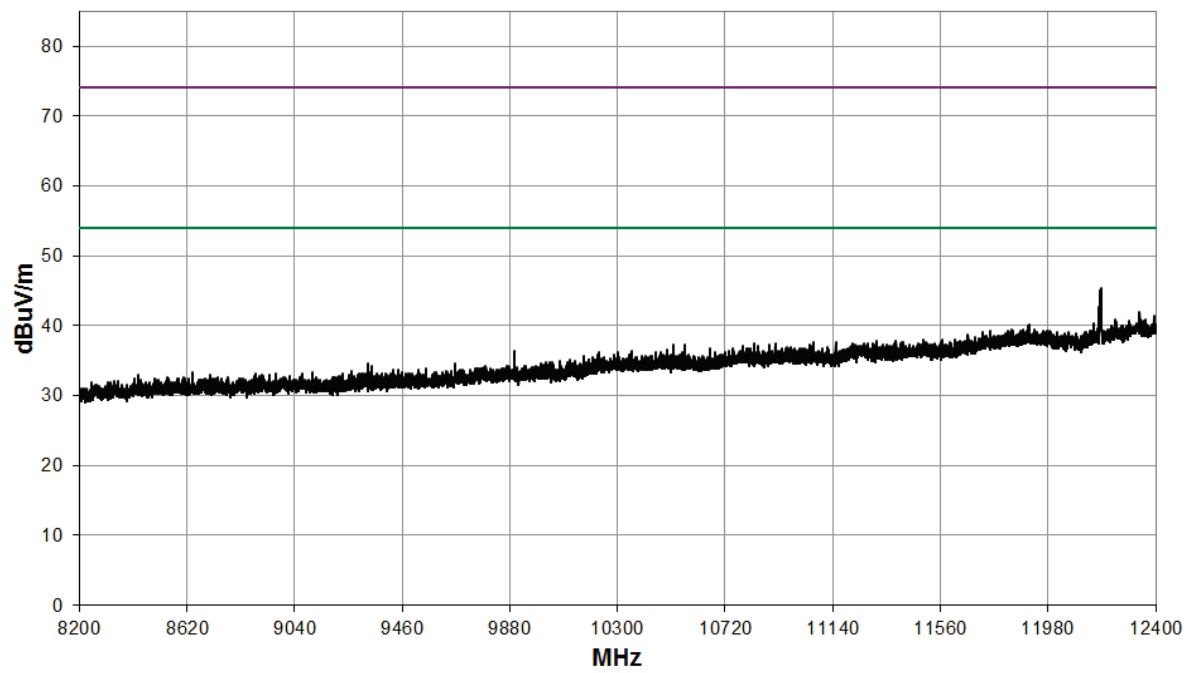
1 GHz to 3 GHz



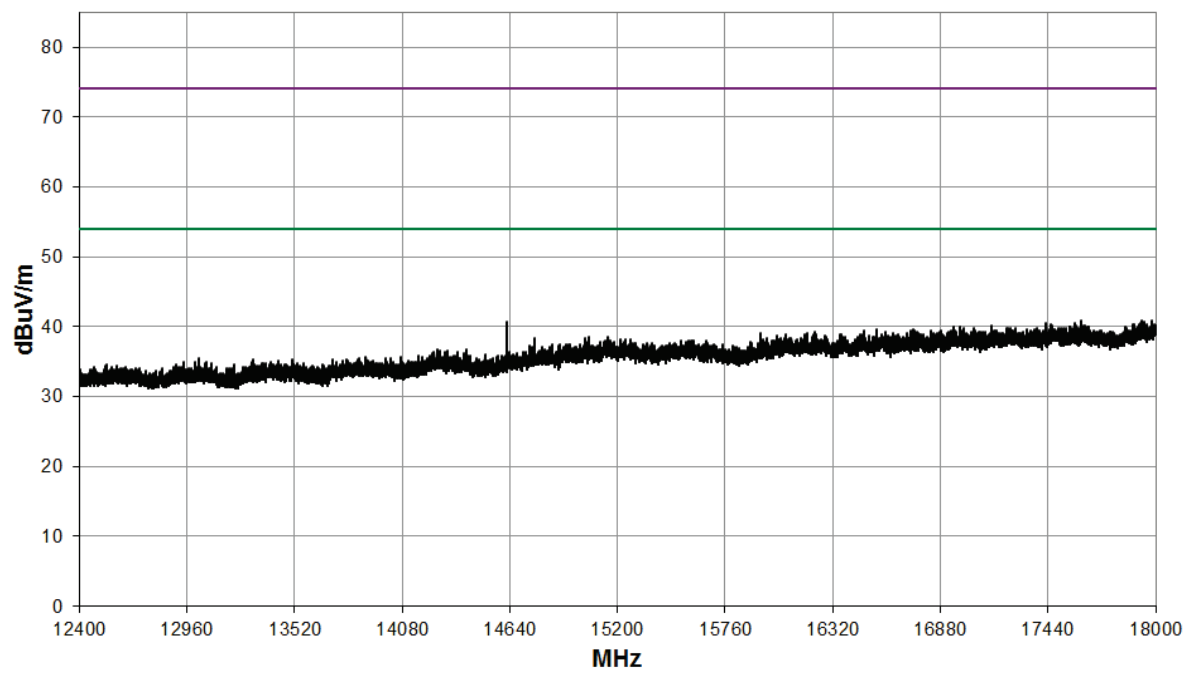
3 GHz to 8.2 GHz



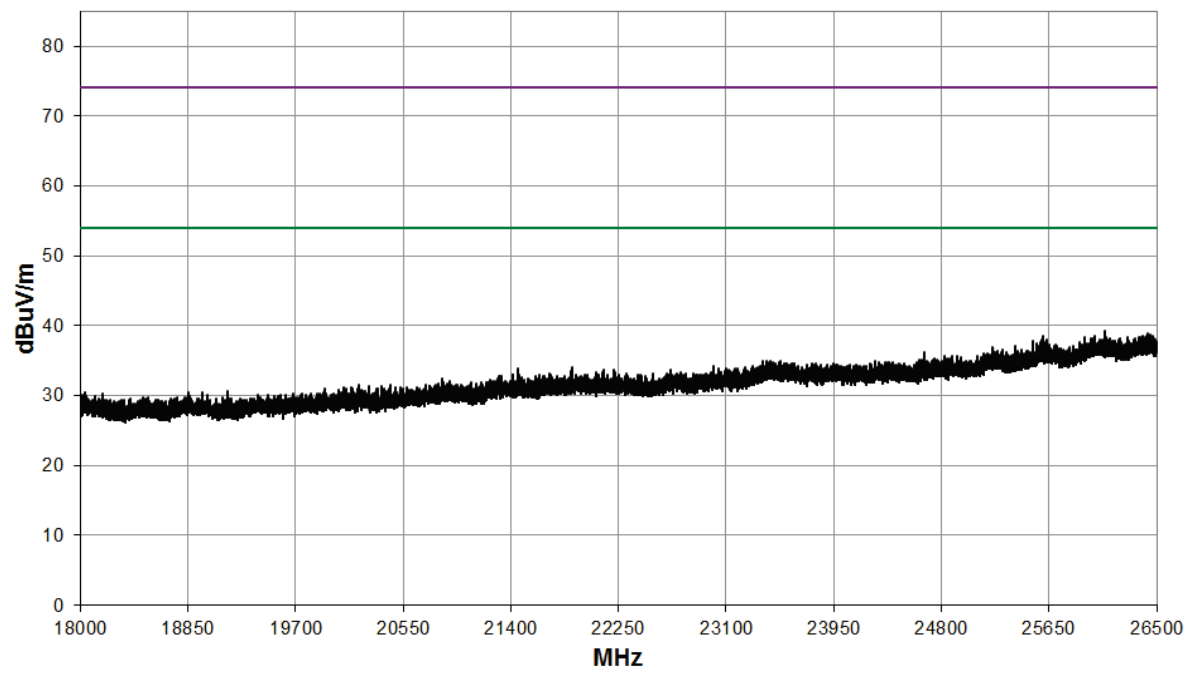
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

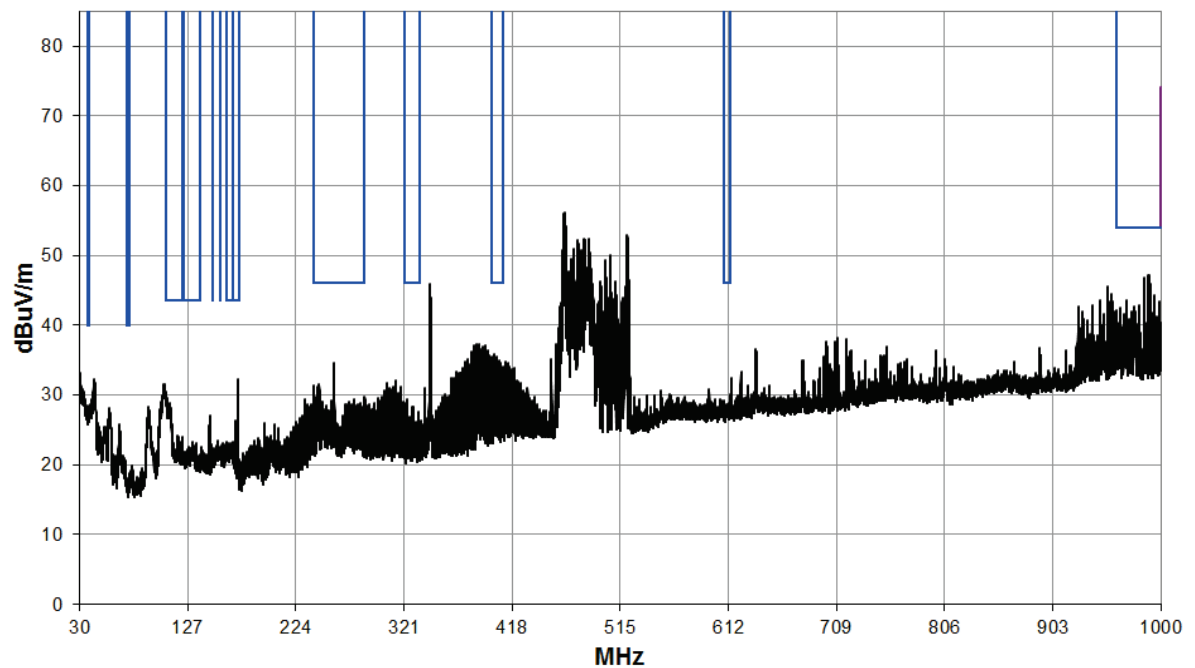


18 GHz to 26.5 GHz

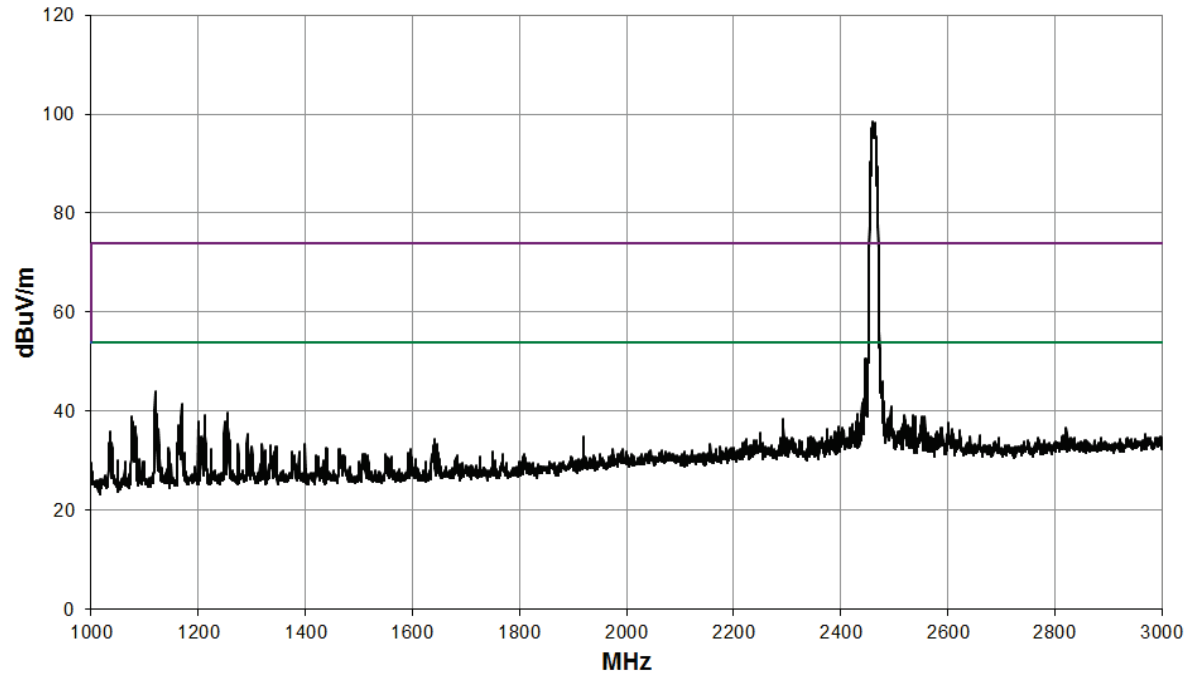


Mode: 802.11b; Channel: CH11; Frequency: 2462 MHz; Rate: 1 Mbps; Power Setting: 12;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4824.0	8.4	5.4	33.3	0.0	0.0	0.0	47.1	226.5	500
PK	4824.2	15.5	5.4	33.3	0.0	0.0	0.0	54.2	512.9	5000
PK	12308.5	19.5	9.1	30.7	0.0	0.0	0.0	55.8	616.6	5000
AV	12309.2	9.4	9.1	30.7	0.0	0.0	0.0	45.7	192.8	500
AV	14772.0	10.6	10.6	32.3	0.0	0.0	0.0	44.0	158.5	500

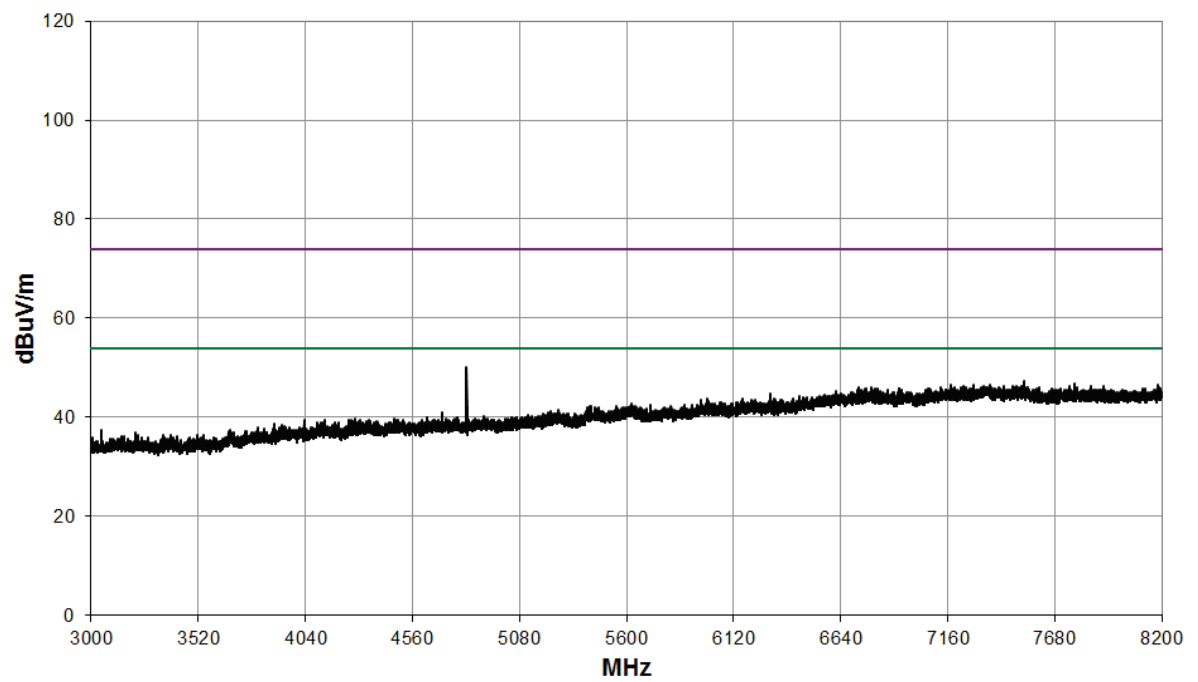
30 MHz to 1 GHz



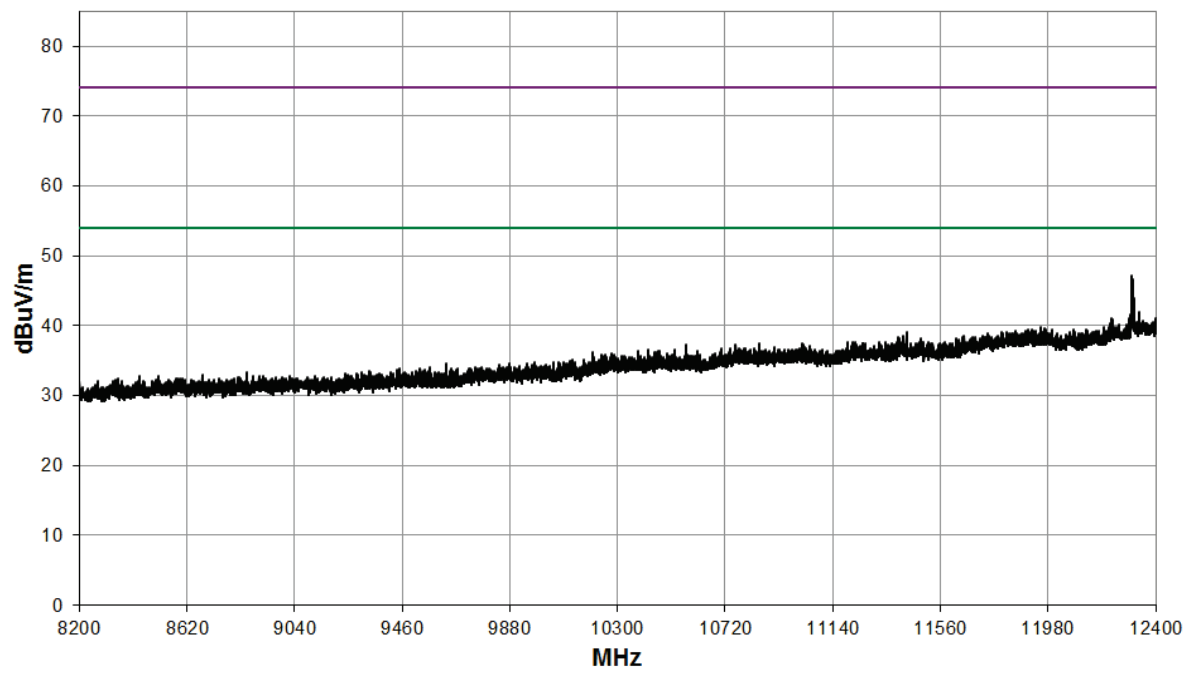
1 GHz to 3 GHz



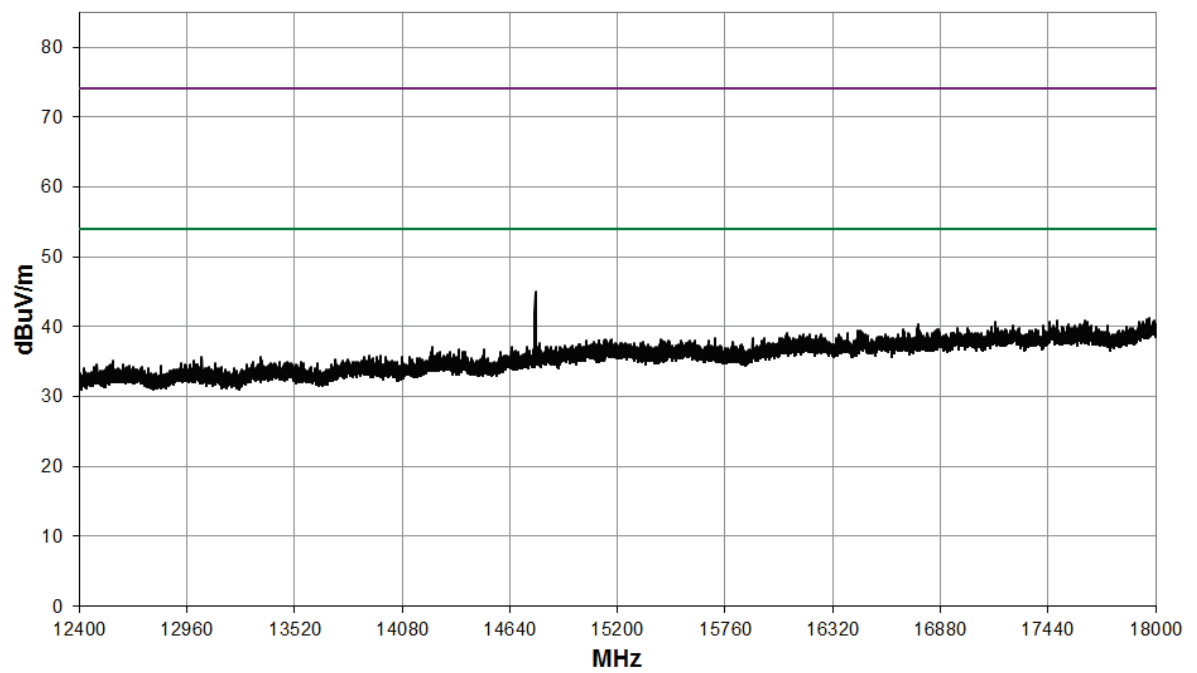
3 GHz to 8.2 GHz



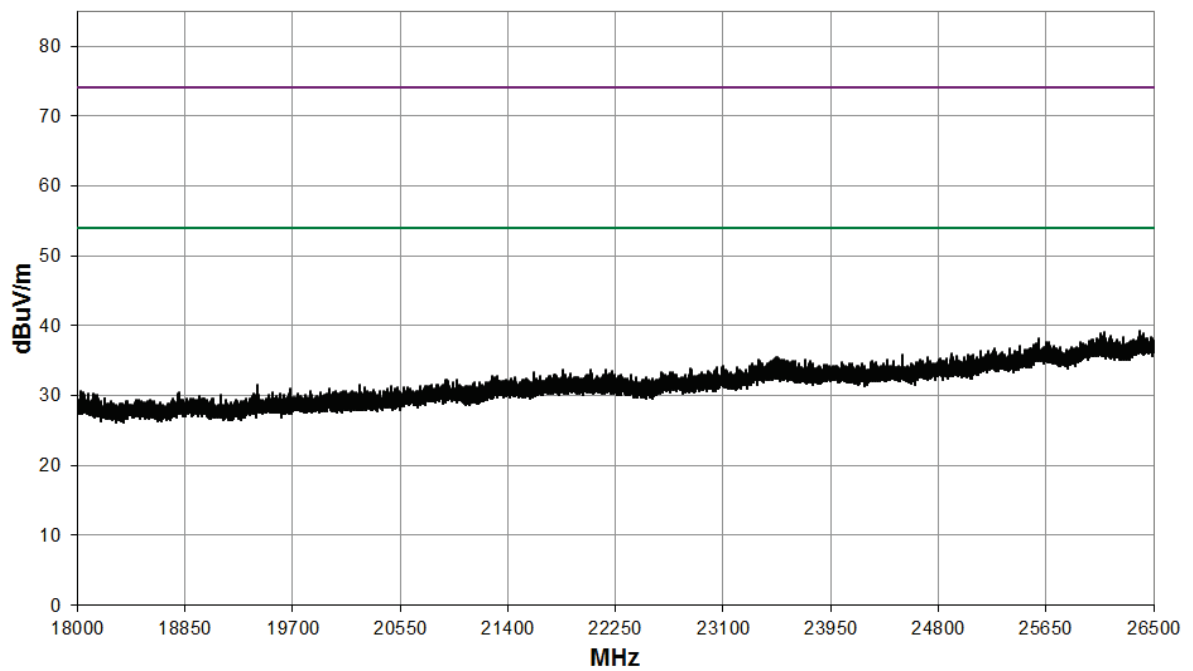
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

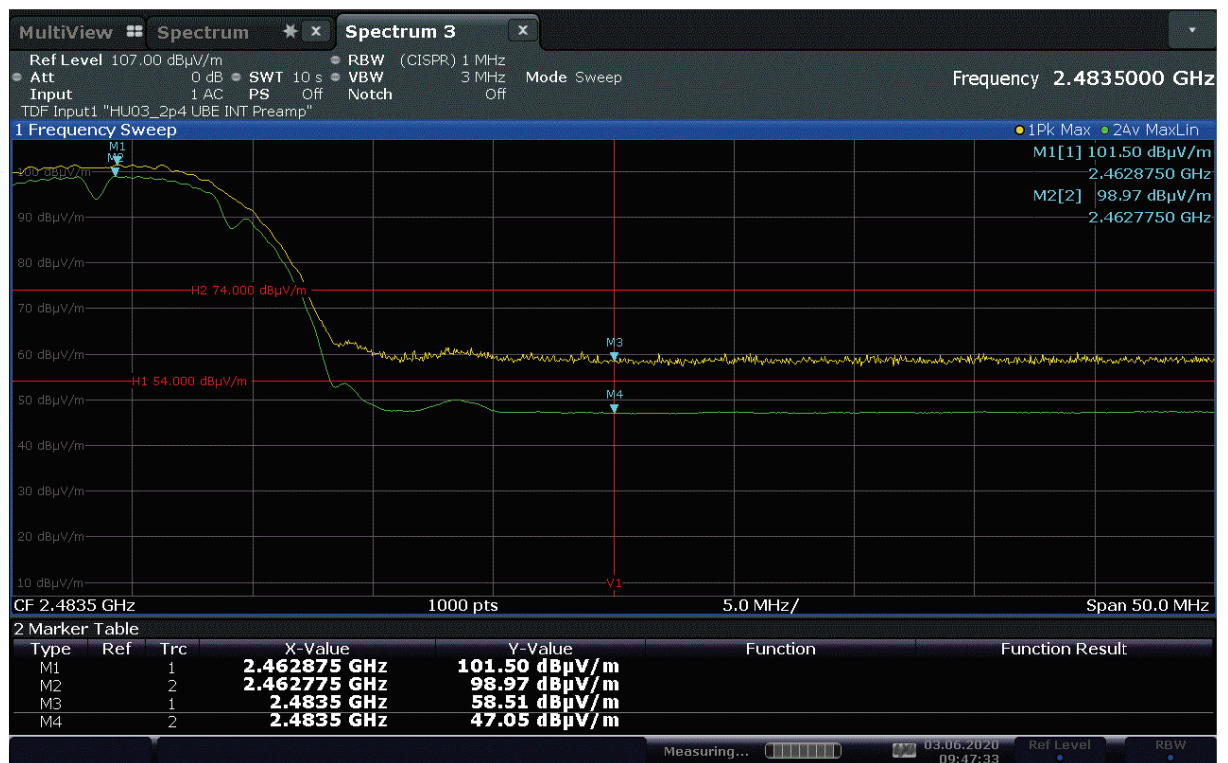


18 GHz to 26.5 GHz



Band Edge

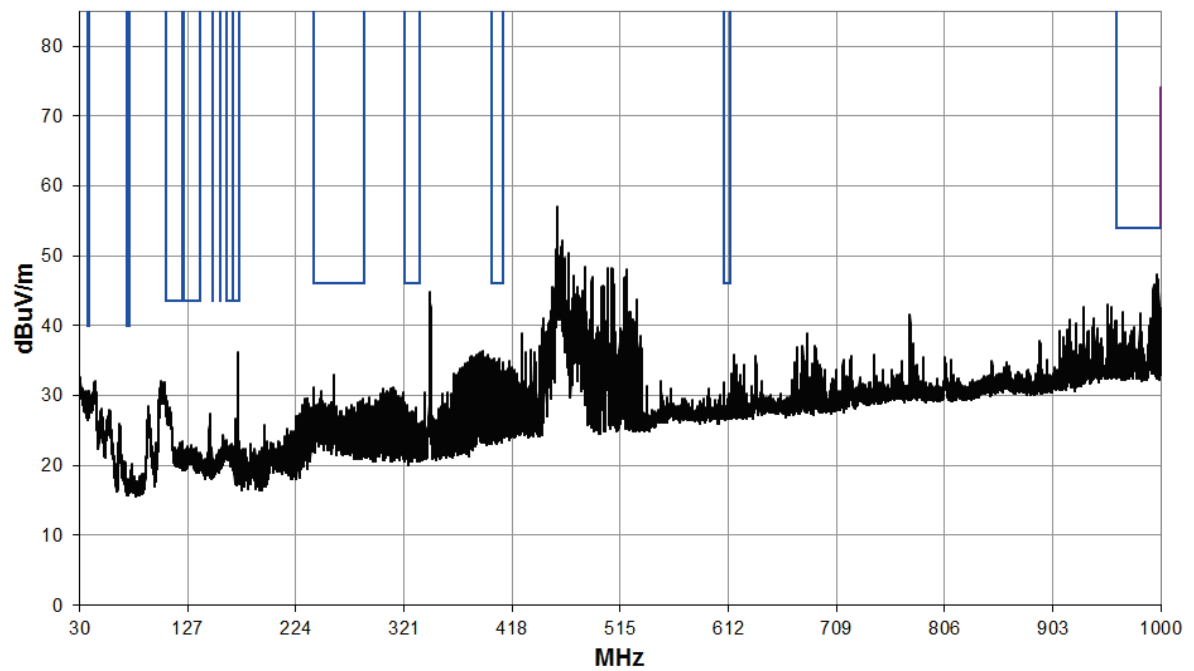
Element



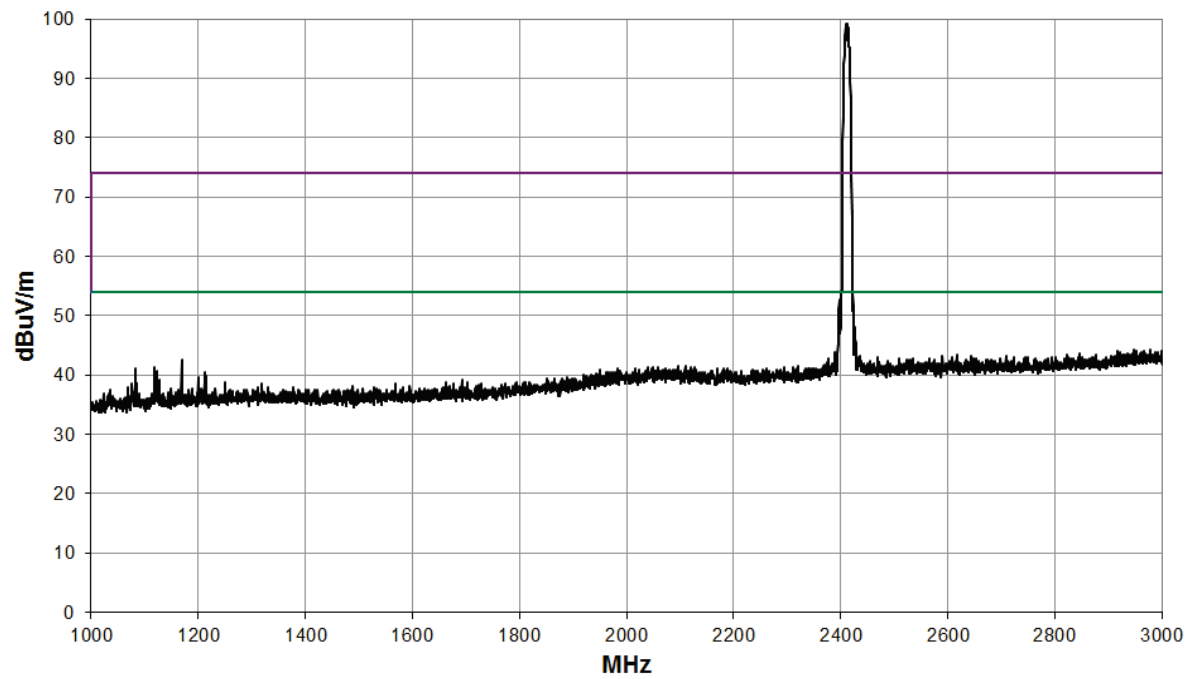
Mode: 802.11b; Channel: CH1; Frequency: 2412 MHz; Rate: 11 Mbps; Power Setting: 12;

Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4823.9	-2.3	5.4	33.3	0.0	0.0	0.0	36.4	66.1	500
PK	12073.7	17.9	9.0	30.5	0.0	0.0	0.0	57.4	741.3	5000
AV	12074.5	1.5	9.0	30.5	0.0	0.0	0.0	41.0	112.2	500
AV	14472.3	2.4	10.5	31.3	0.0	0.0	0.0	34.7	54.3	500

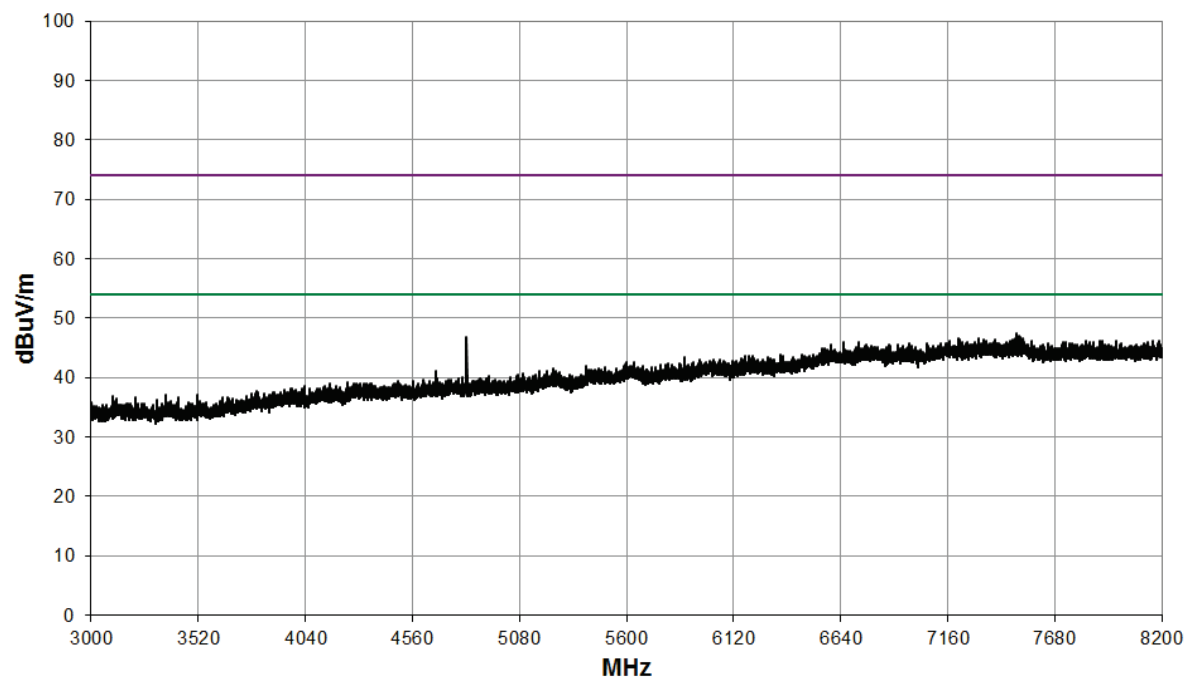
30 MHz to 1 GHz



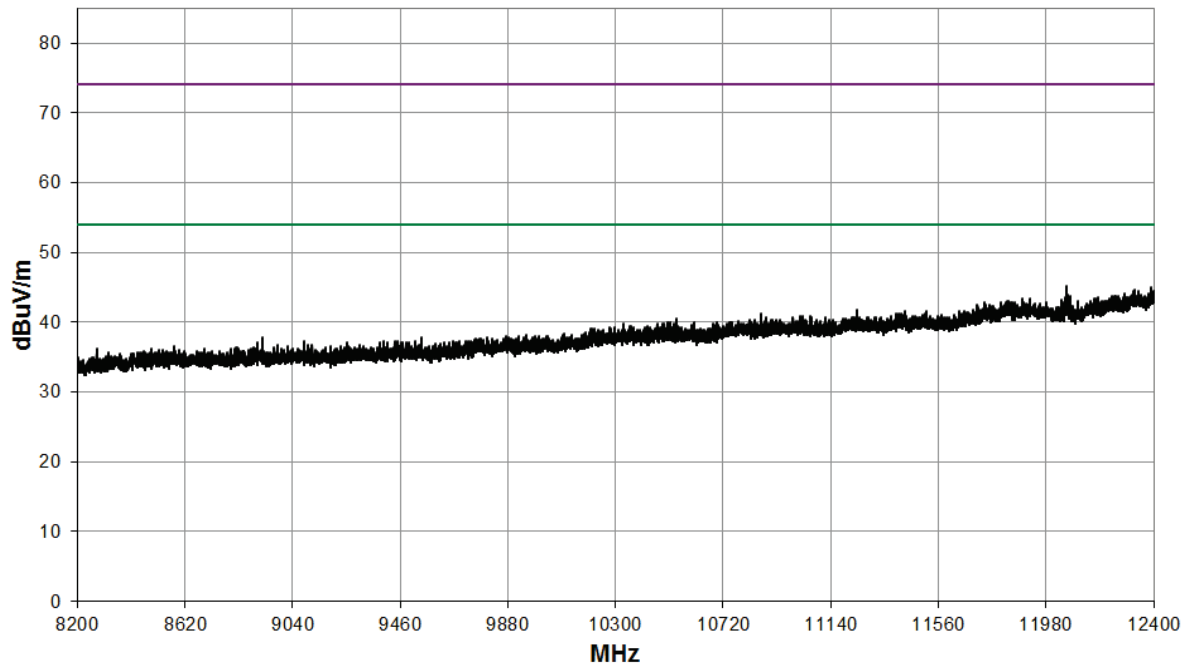
1 GHz to 3 GHz



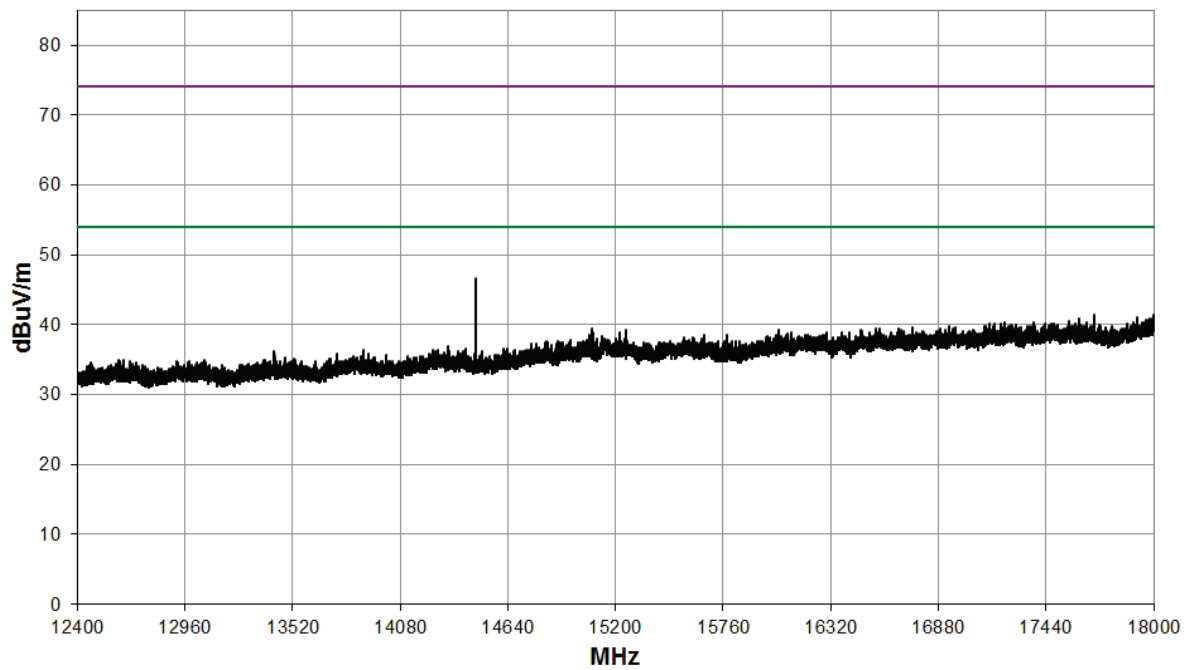
3 GHz to 8.2 GHz



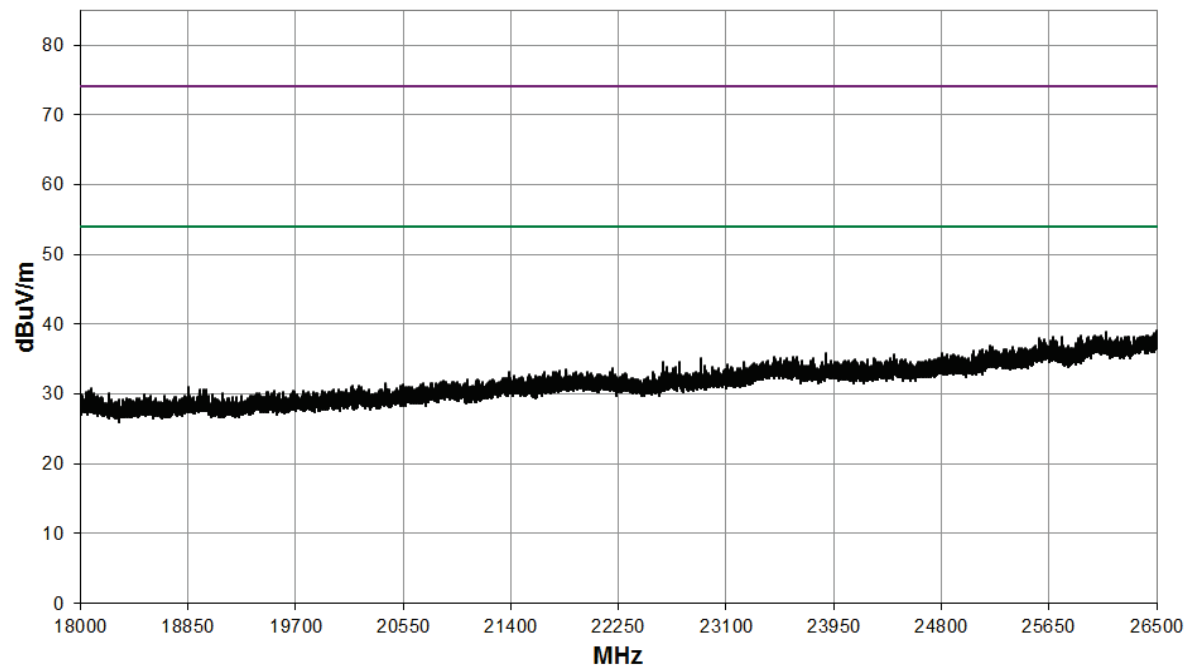
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



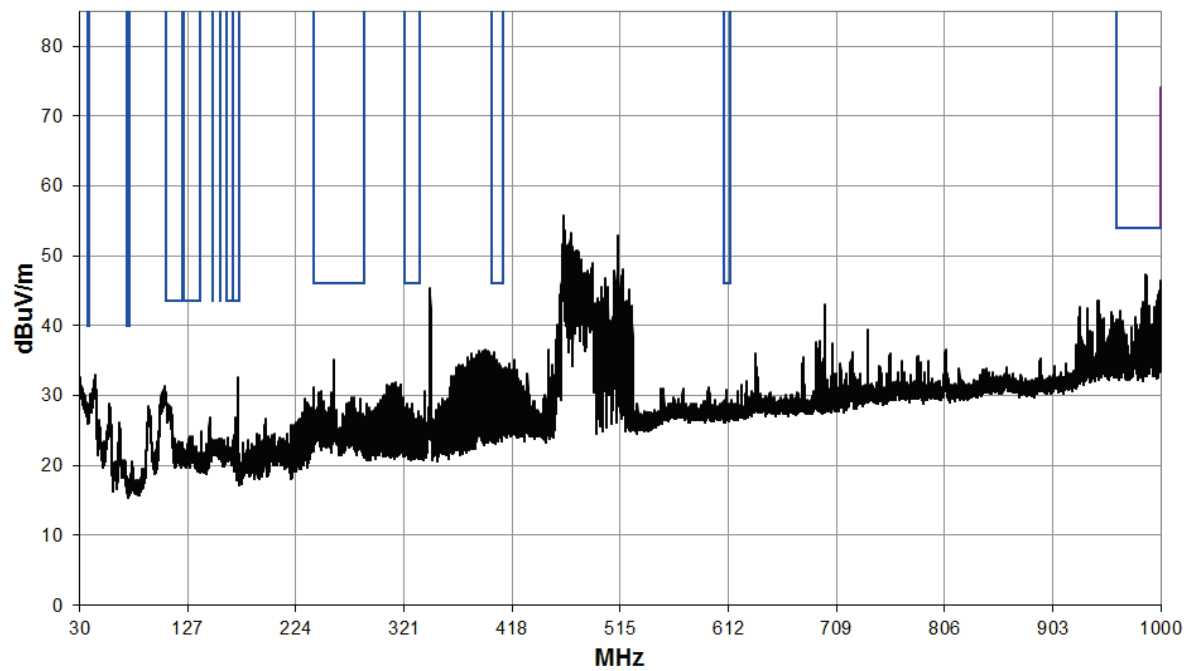
18 GHz to 26.5 GHz



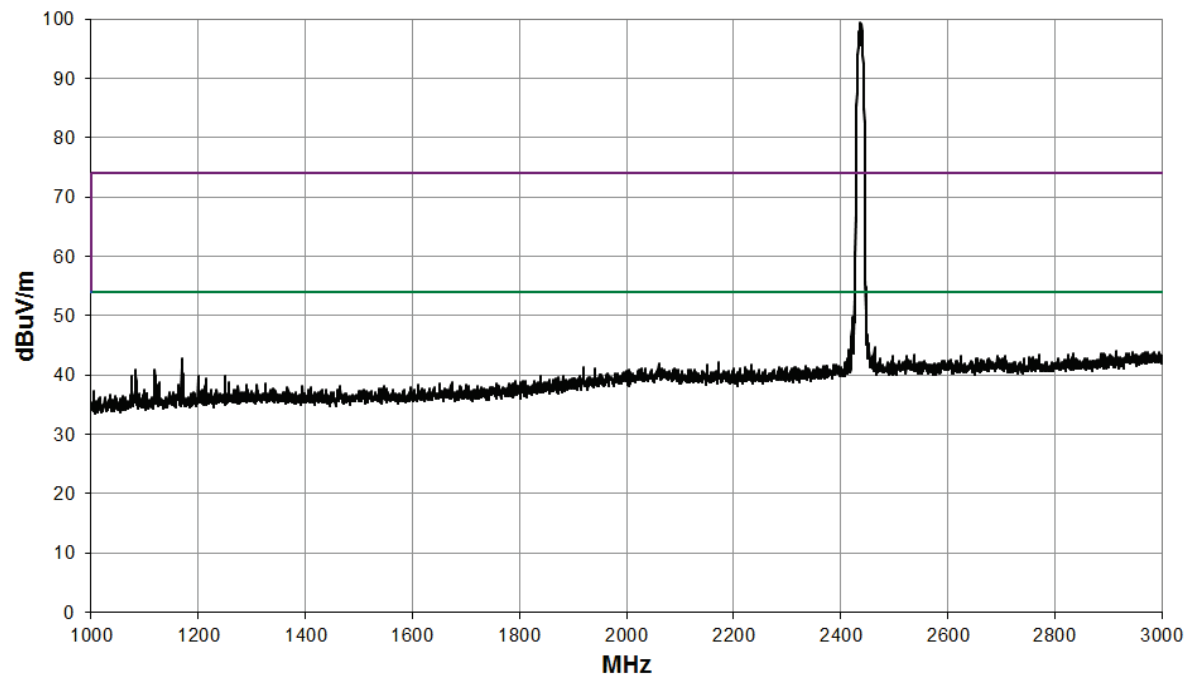
Mode: 802.11b; Channel: CH6; Frequency: 2437 MHz; Rate: 11 Mbps; Power Setting: 12;

Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	4873.8	19.7	5.4	33.3	0.0	0.0	0.0	58.4	831.8	5000
AV	4874.0	-1.3	5.4	33.3	0.0	0.0	0.0	37.4	74.1	500
PK	12184.4	17.2	9.1	30.2	0.0	0.0	0.0	56.5	668.3	5000
AV	12186.7	3.1	9.1	30.2	0.0	0.0	0.0	42.4	131.8	500

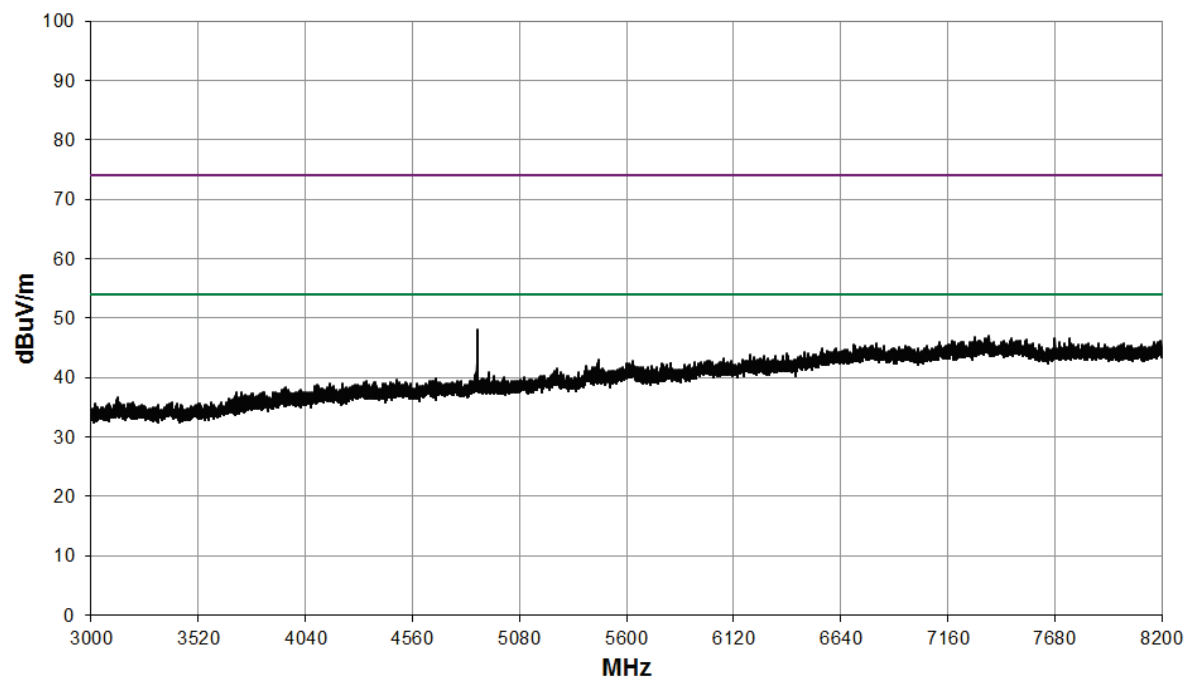
30 MHz to 1 GHz



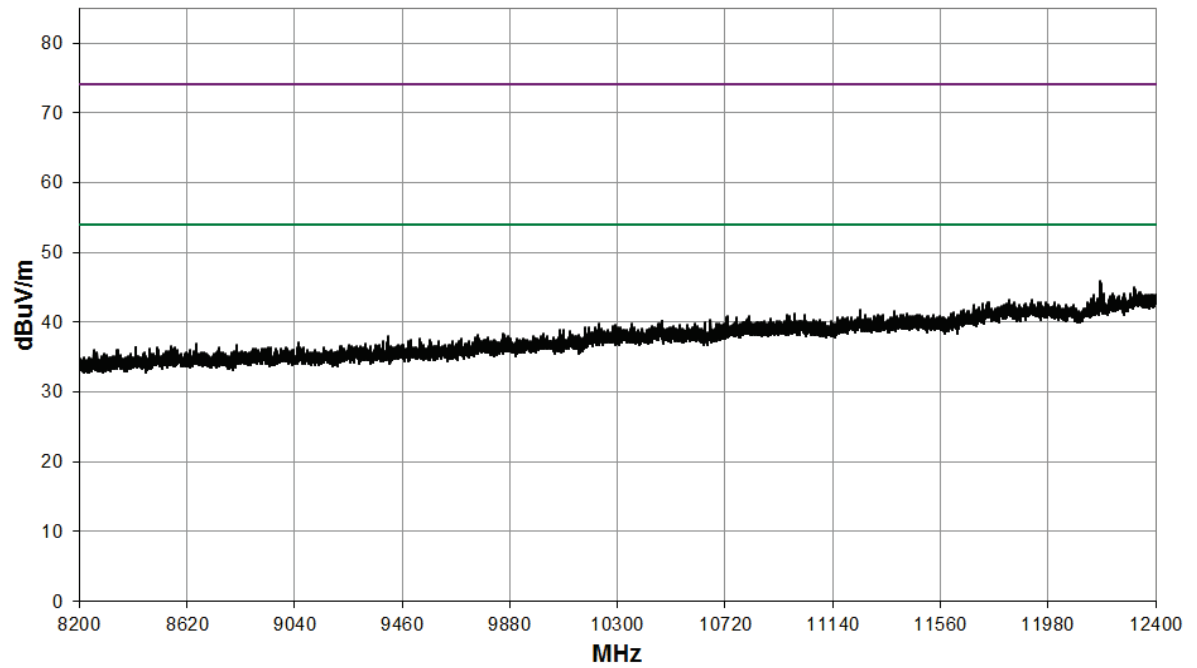
1 GHz to 3 GHz



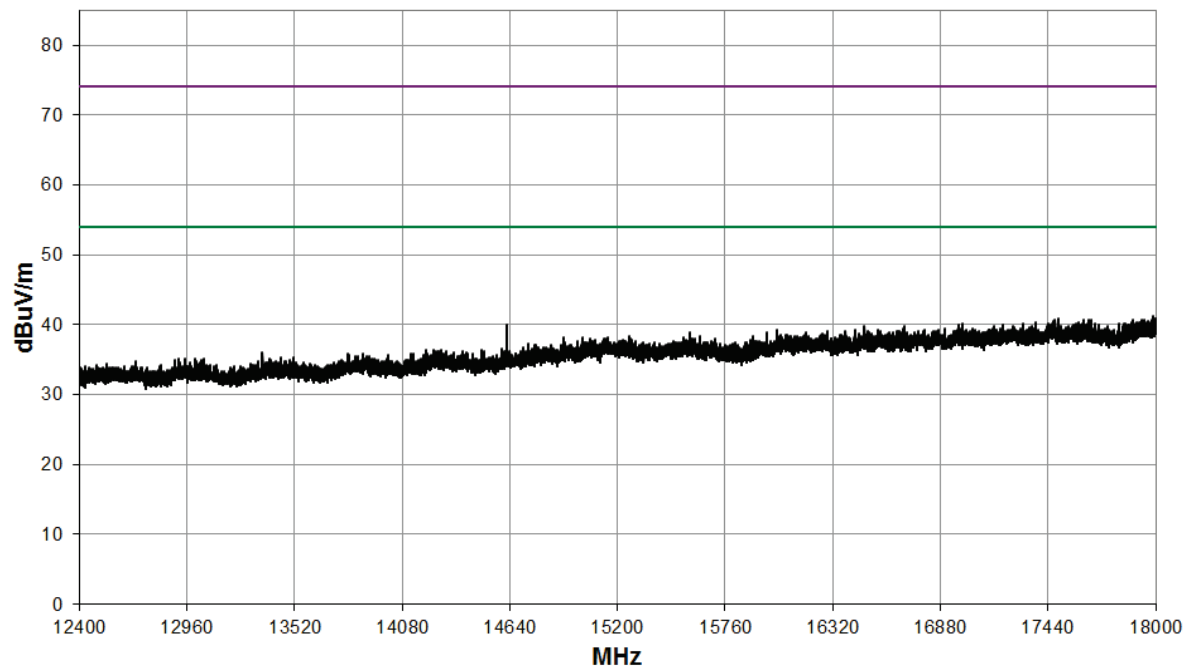
3 GHz to 8.2 GHz



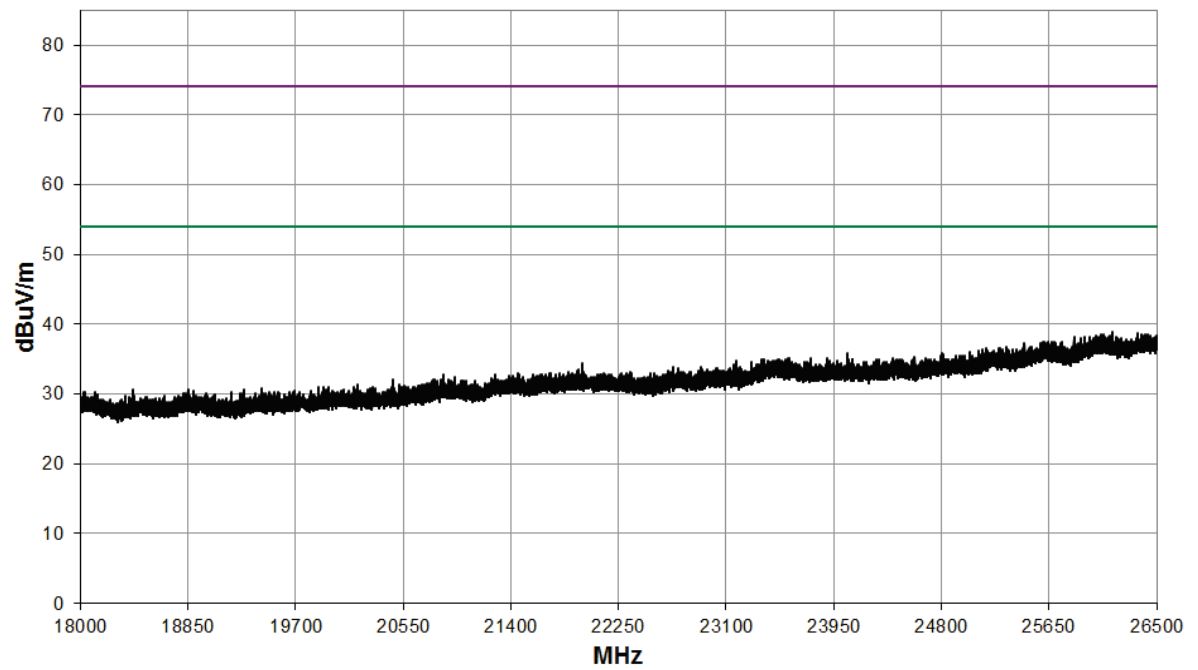
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

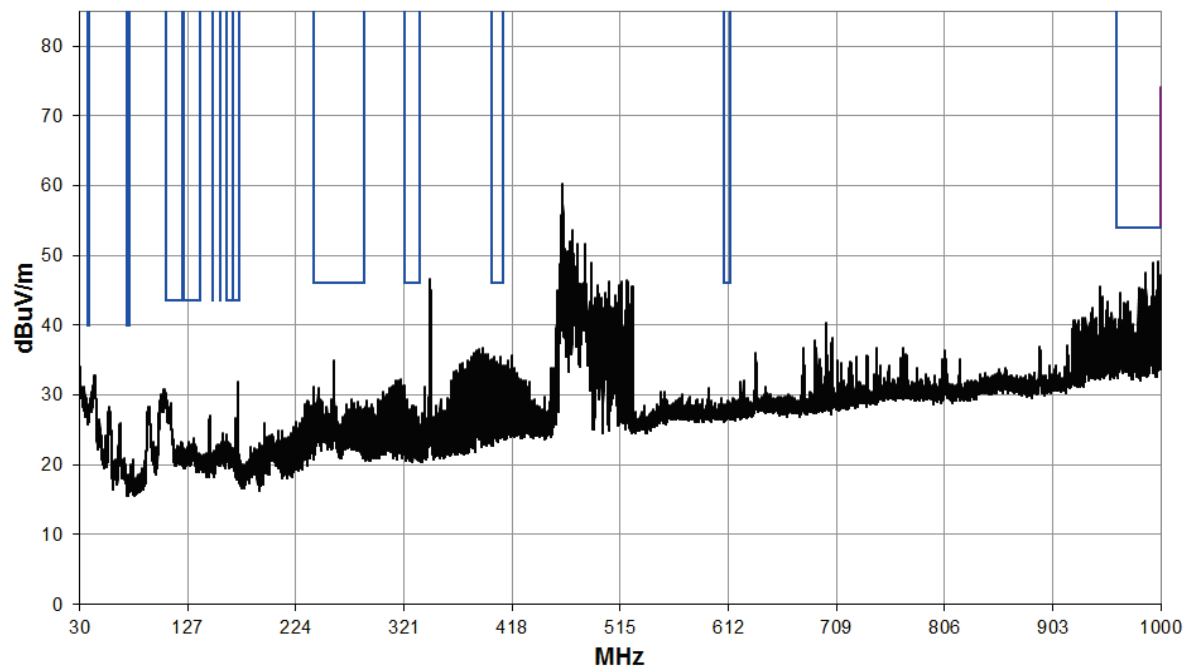


18 GHz to 26.5 GHz

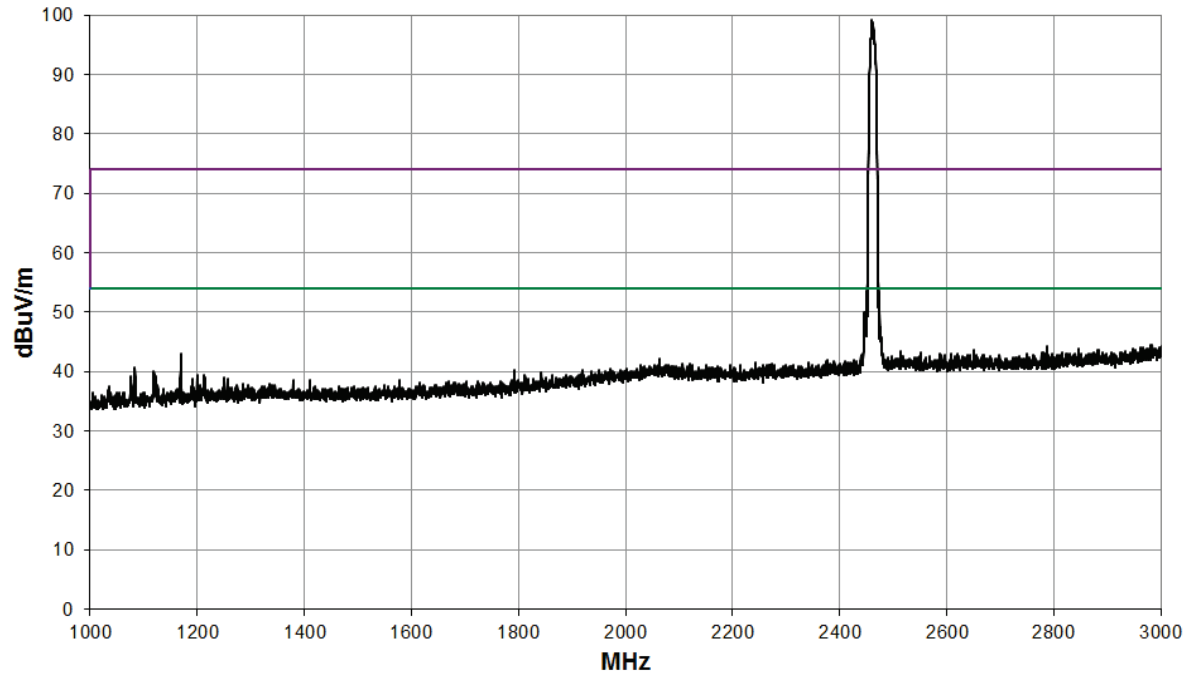


Mode: 802.11b; Channel: CH11; Frequency: 2462 MHz; Rate: 11 Mbps; Power Setting: 12;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	4923.8	18.7	5.5	33.3	0.0	0.0	0.0	57.5	749.9	5000
AV	4924.1	0.3	5.5	33.3	0.0	0.0	0.0	39.1	90.2	500
PK	12184.4	17.2	9.1	30.2	0.0	0.0	0.0	56.5	668.3	5000
AV	12186.7	3.1	9.1	30.2	0.0	0.0	0.0	42.4	131.8	500
AV	14772.2	42.9	10.6	32.3	0.0	0.0	0.0	35.0	56.2	500

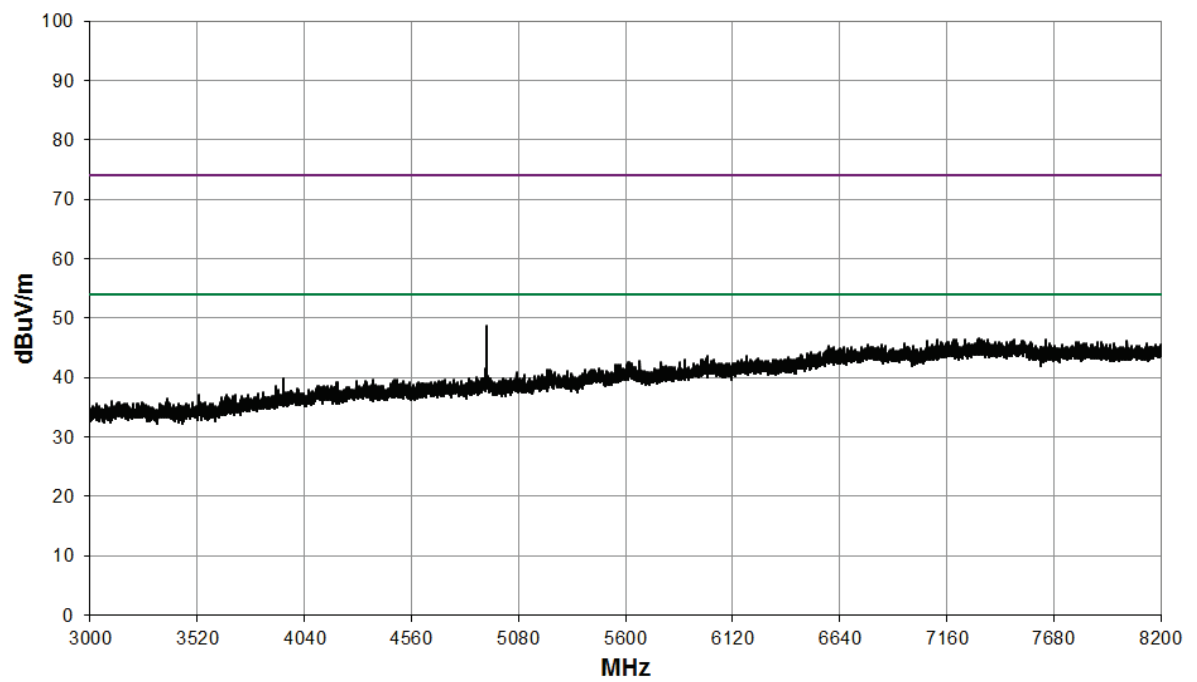
30 MHz to 1 GHz



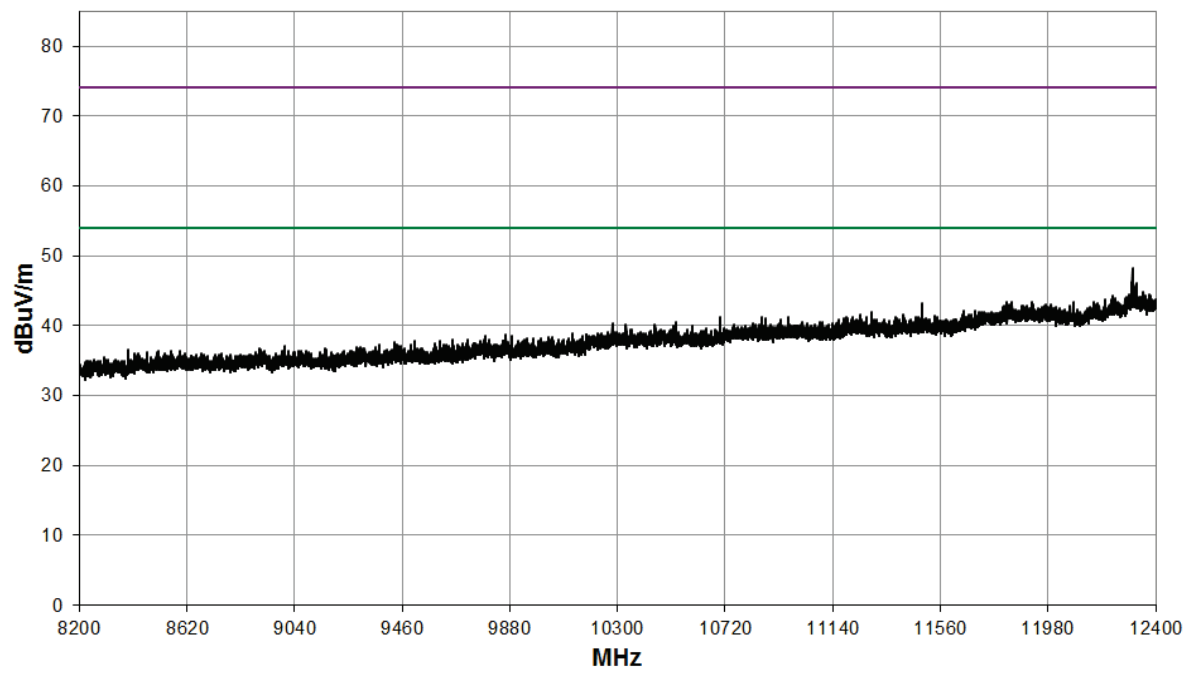
1 GHz to 3 GHz



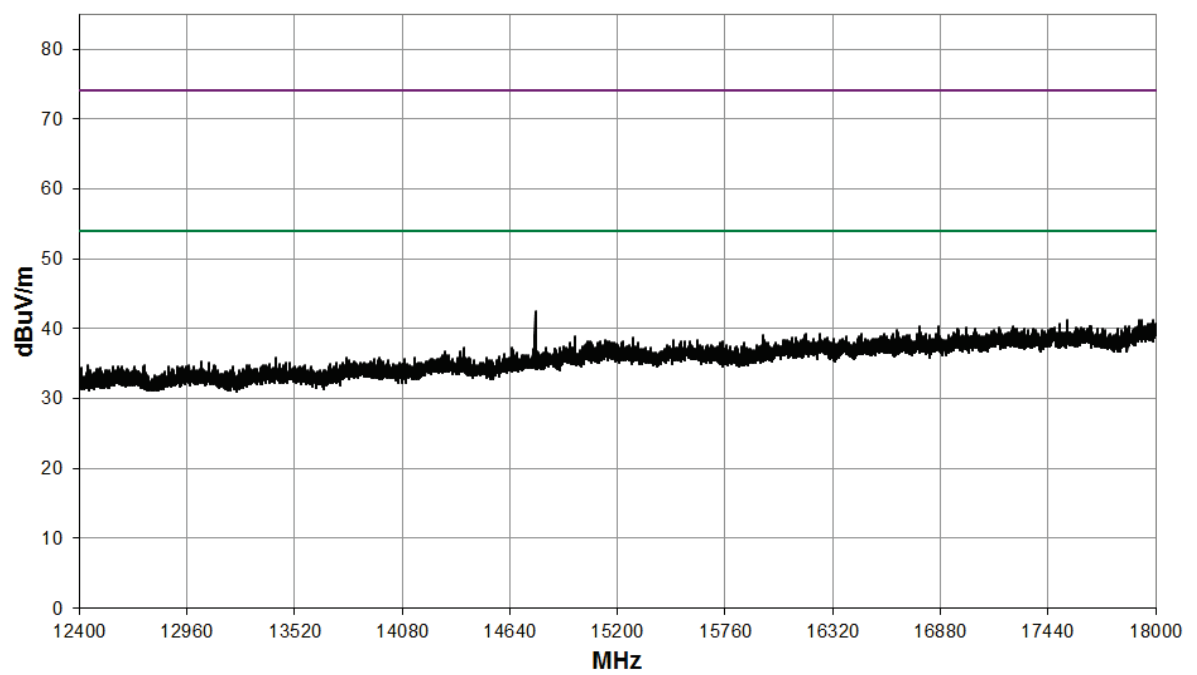
3 GHz to 8.2 GHz



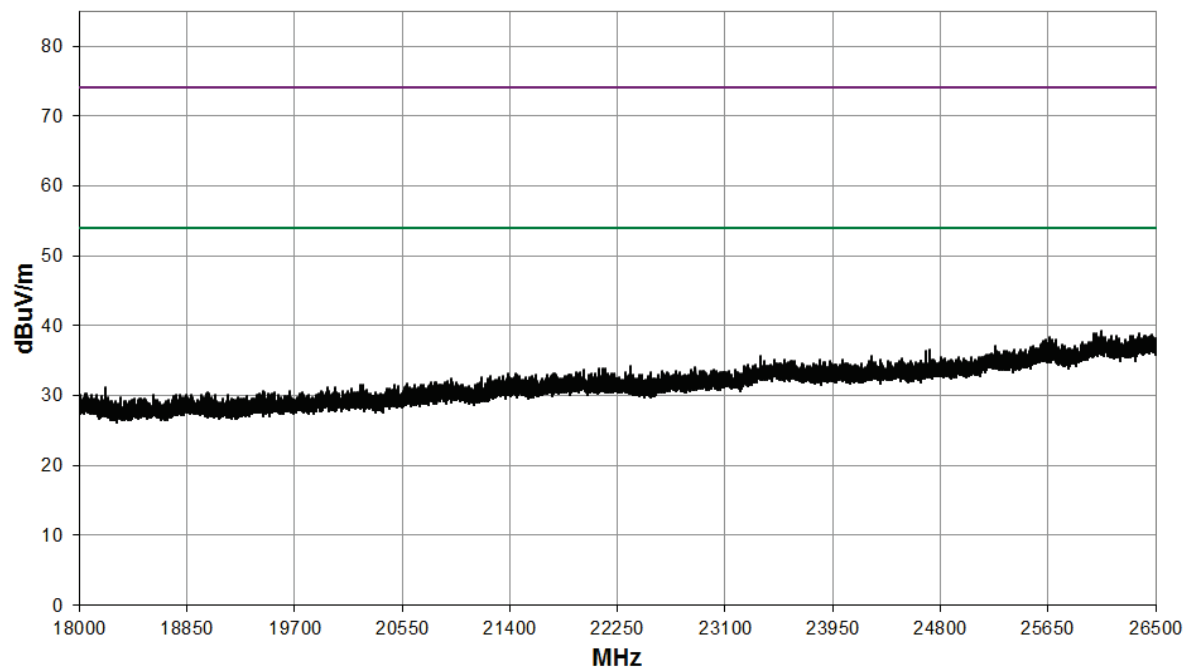
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

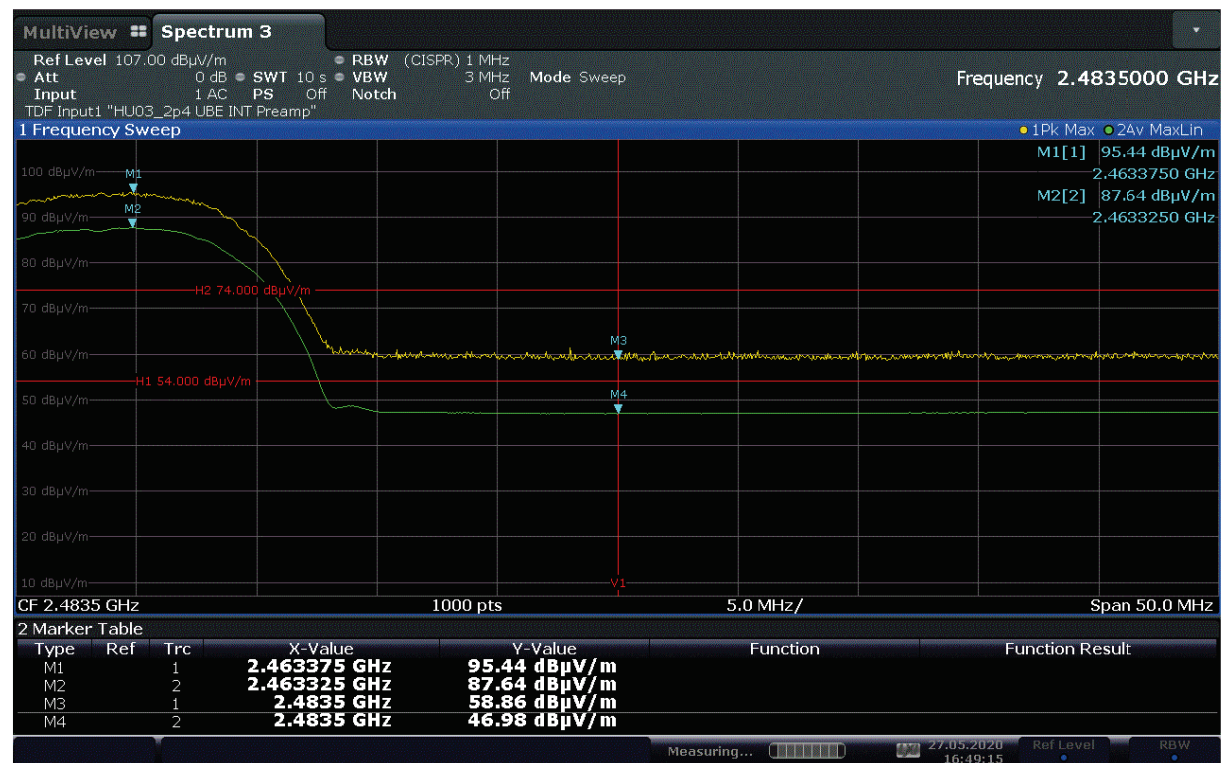


18 GHz to 26.5 GHz



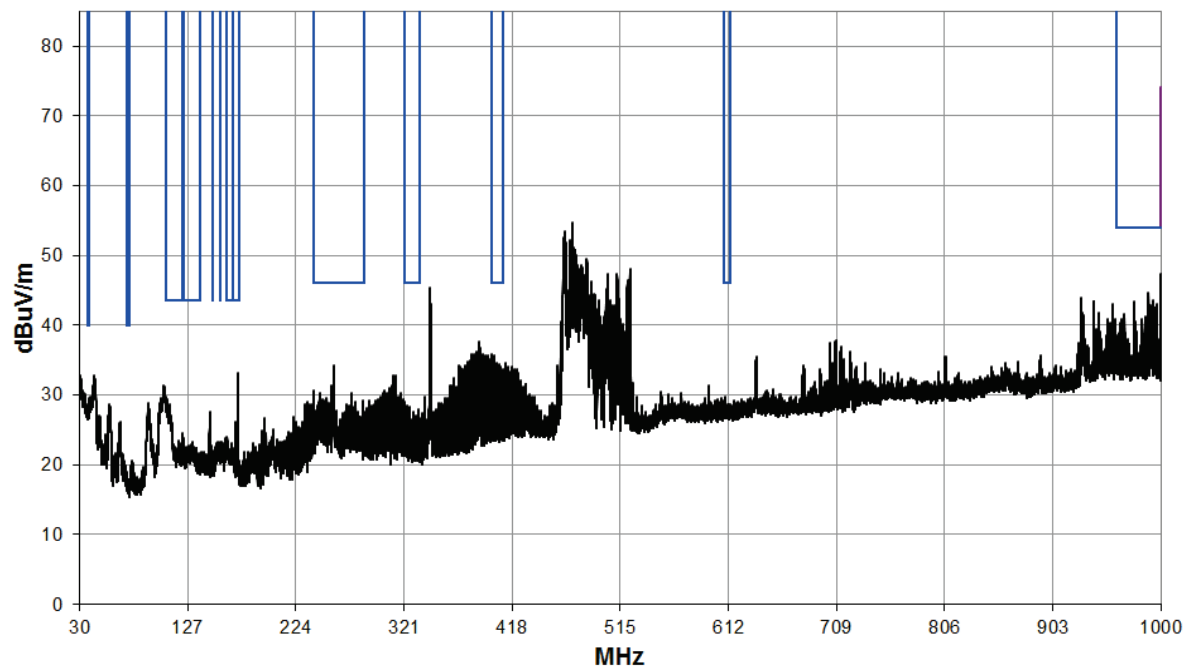
Band Edge

Element

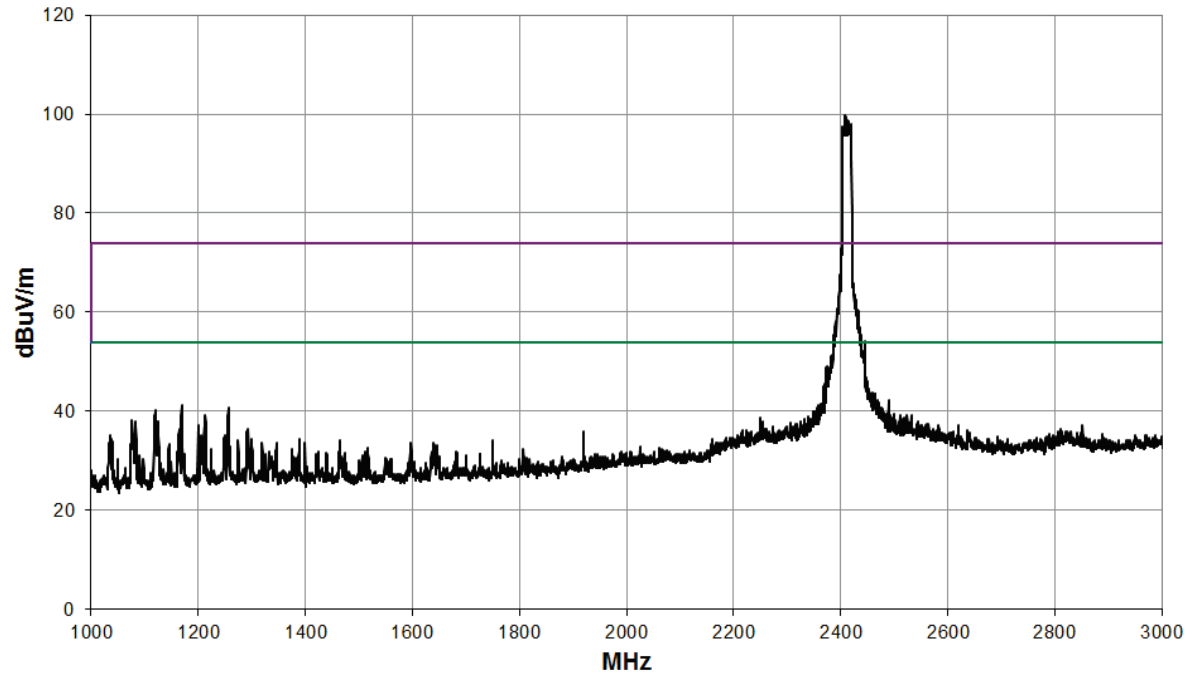


Mode: 802.11g; Channel: CH1; Frequency: 2412 MHz; Rate: 6 Mbps; Power Setting: 15;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4822.0	-1.3	5.4	33.3	0.0	0.0	0.0	37.4	74.1	500
PK	4852.9	20.9	5.4	33.3	0.0	0.0	0.0	59.6	955.0	5000
AV	12060.3	2.8	9.0	30.4	0.0	0.0	0.0	38.7	86.1	500
PK	12069.6	20.2	9.0	30.6	0.0	0.0	0.0	56.3	653.1	5000
AV	14468.2	3.1	10.5	31.3	0.0	0.0	-9.5	35.4	58.9	500

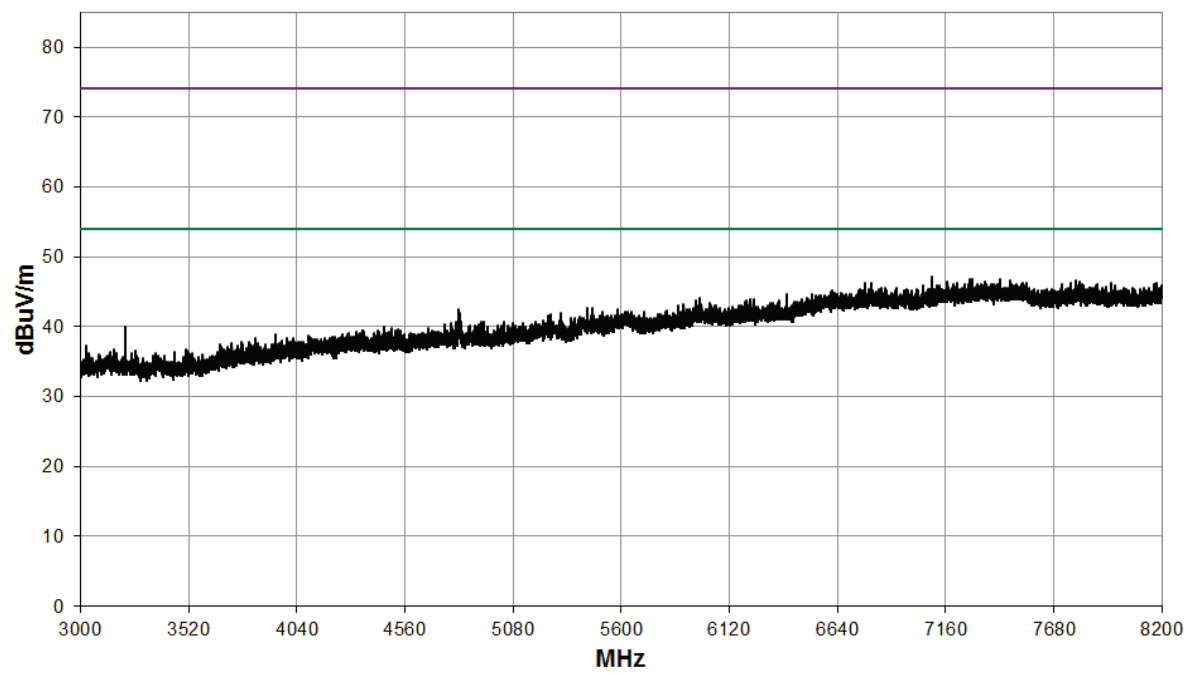
30 MHz to 1 GHz



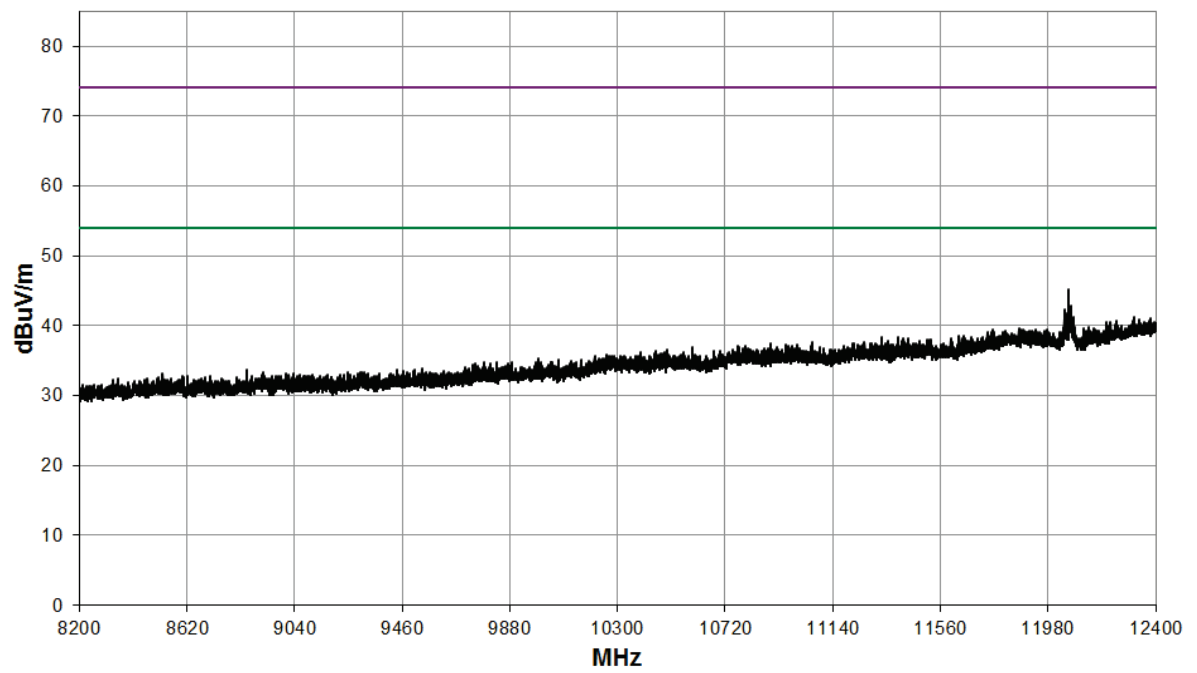
1 GHz to 3 GHz



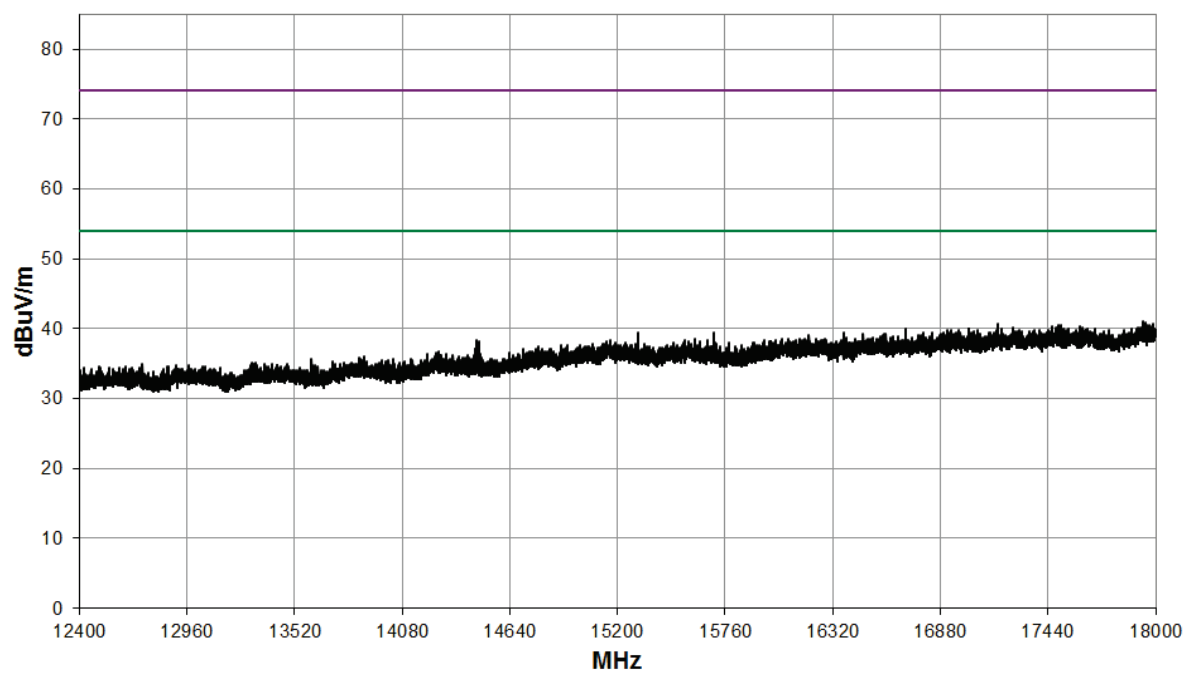
3 GHz to 8.2 GHz



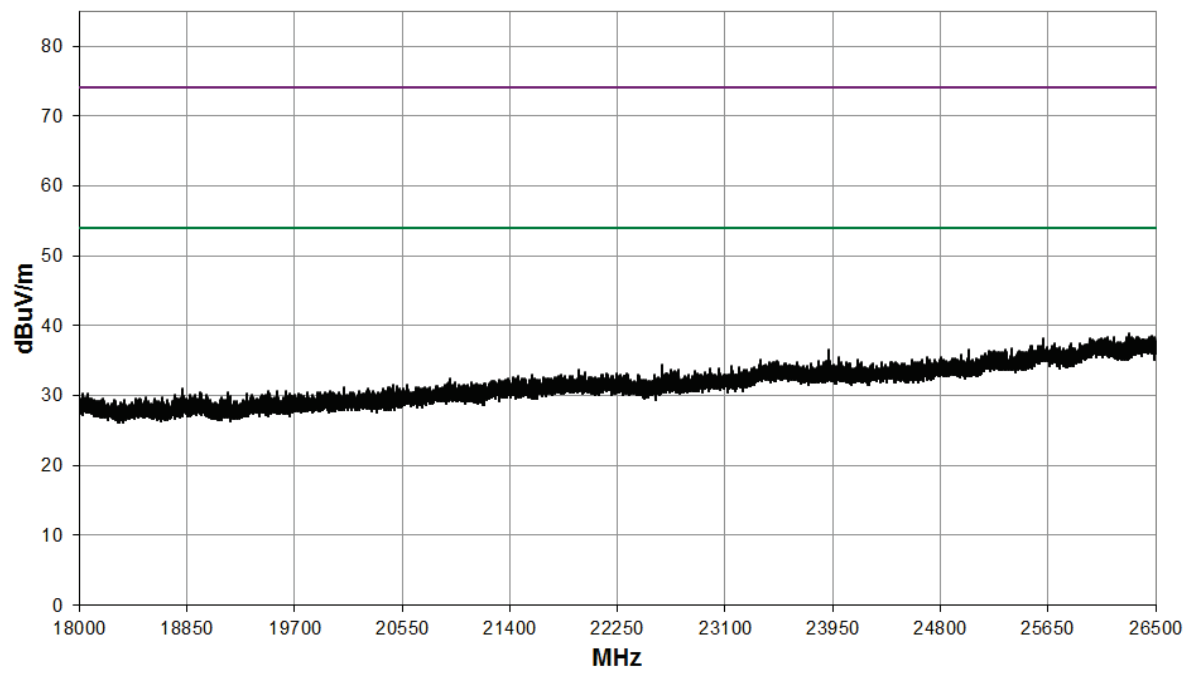
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

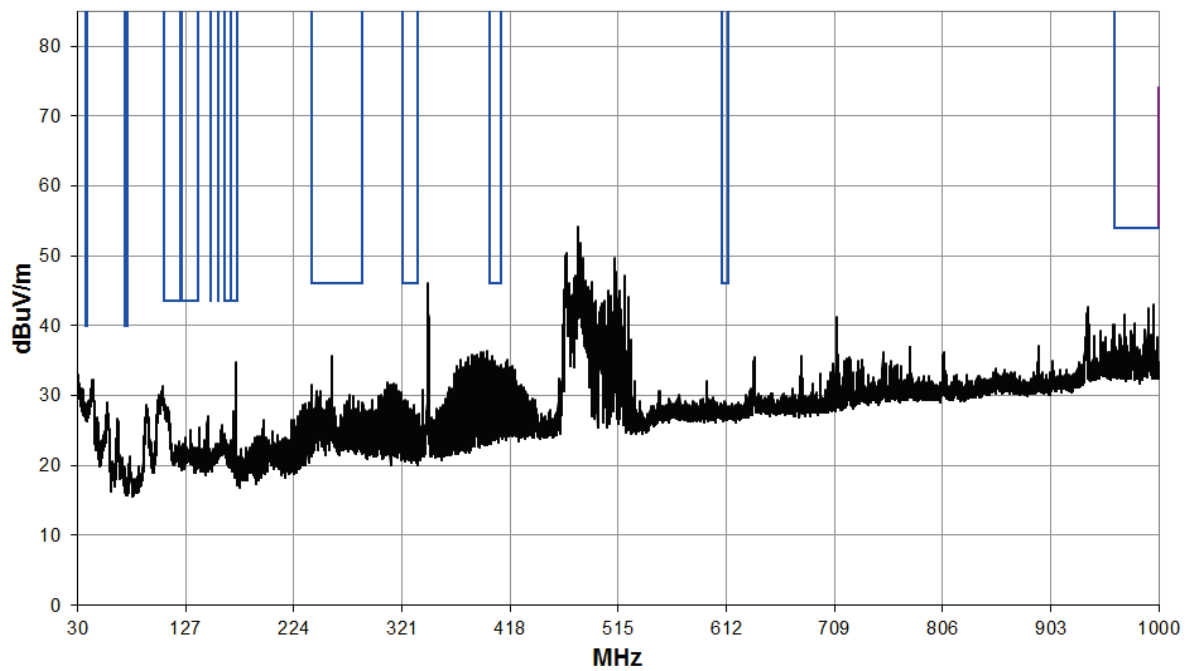


18 GHz to 26.5 GHz

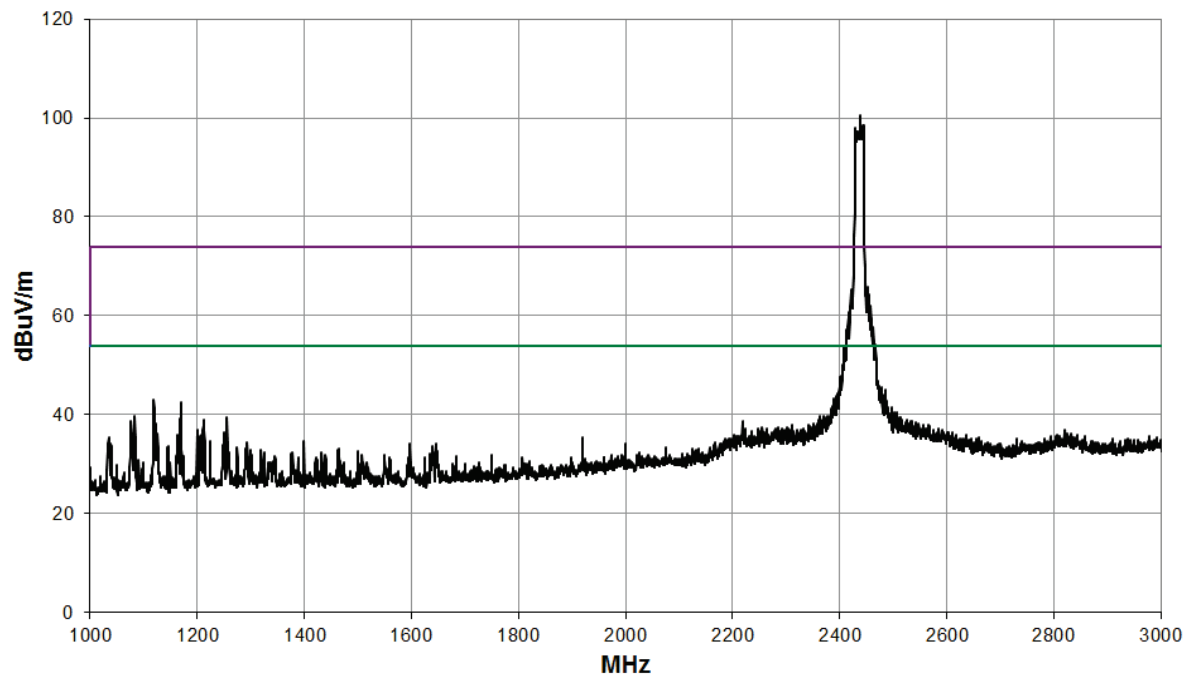


Mode: 802.11g; Channel: CH6; Frequency: 2437 MHz; Rate: 6 Mbps; Power Setting: 15;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	4876.9	24.1	5.4	33.3	0.0	0.0	0.0	62.8	1380.4	5000
AV	4877.2	-0.8	5.4	33.3	0.0	0.0	0.0	37.9	78.5	500
PK	12180.4	27.5	9.1	30.3	0.0	0.0	-3.5	63.4	1479.1	5000
AV	12185.6	10.8	9.1	30.2	0.0	0.0	-3.5	46.6	213.8	500

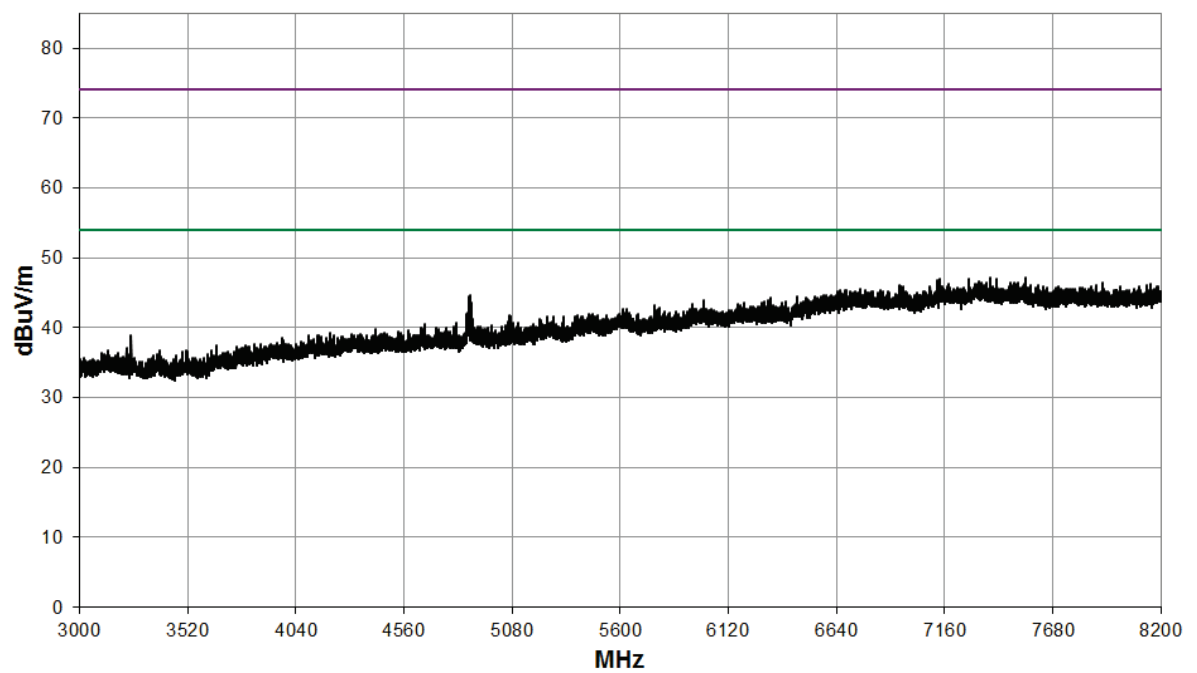
30 MHz to 1 GHz



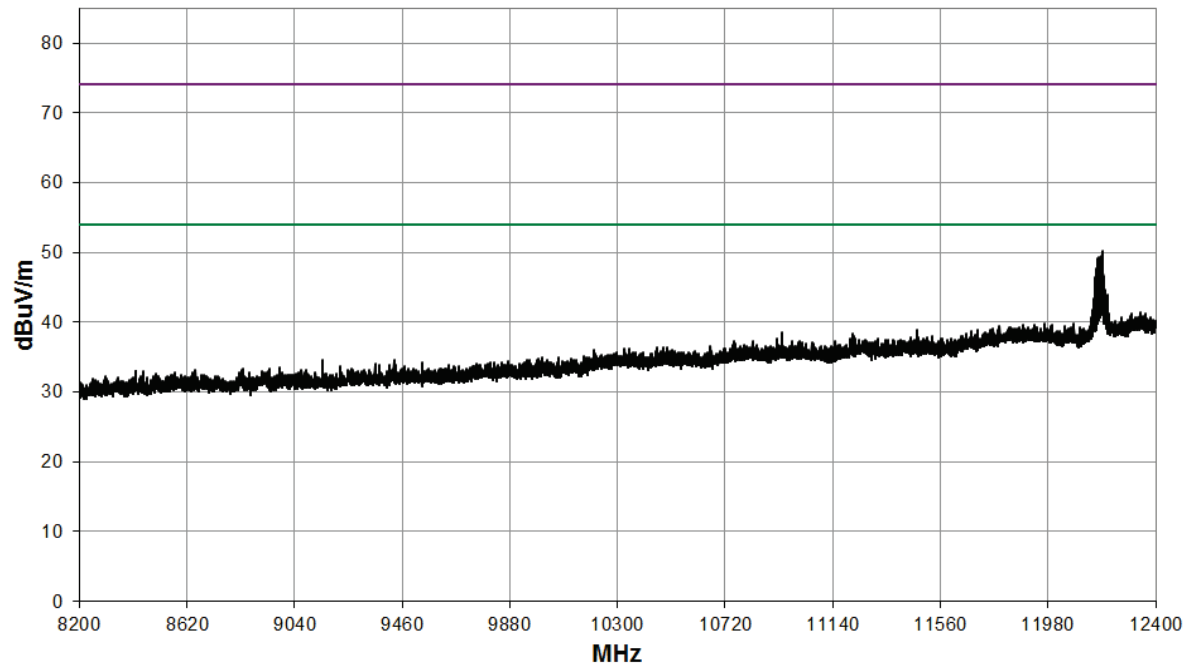
1 GHz to 3 GHz



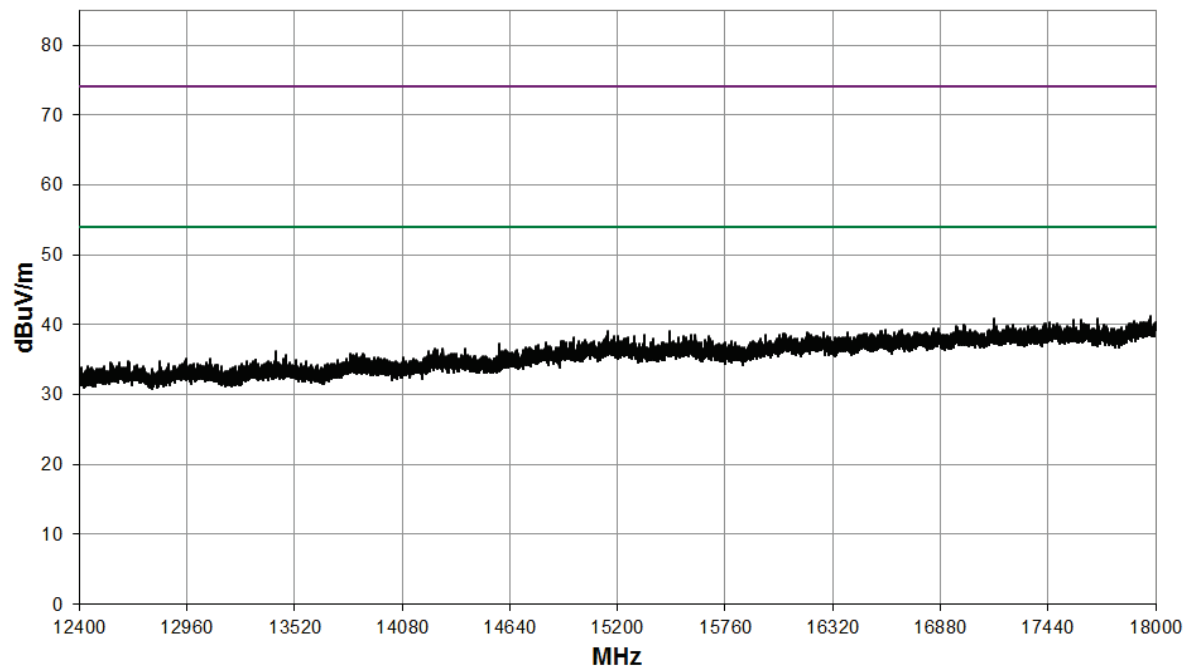
3 GHz to 8.2 GHz



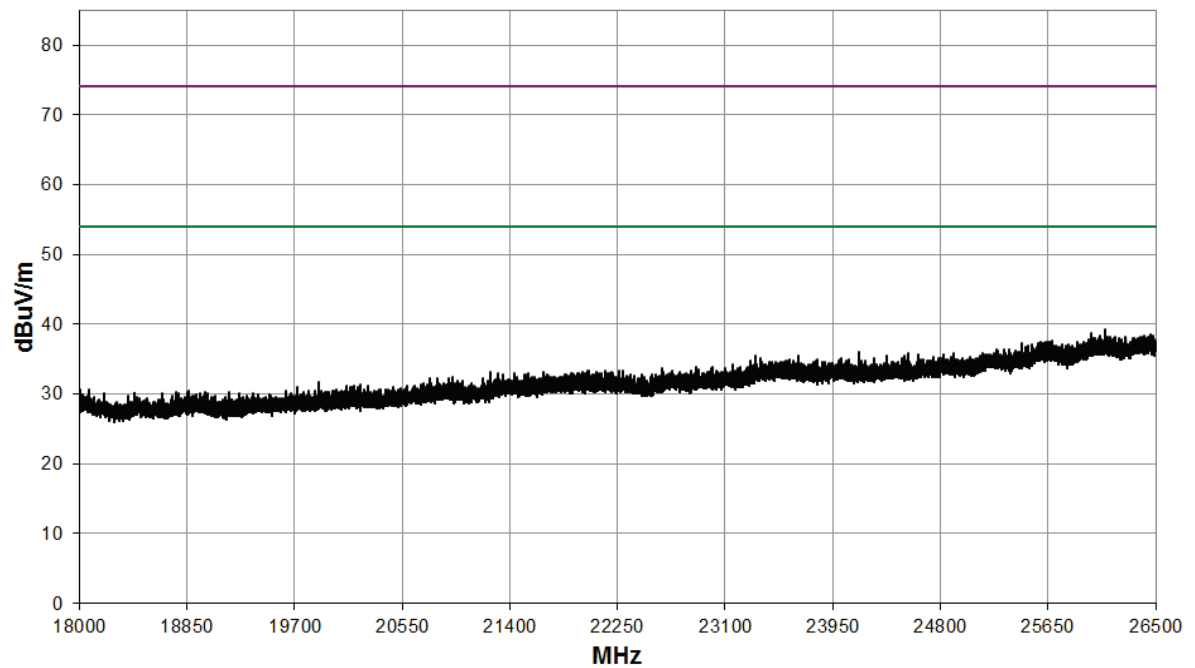
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

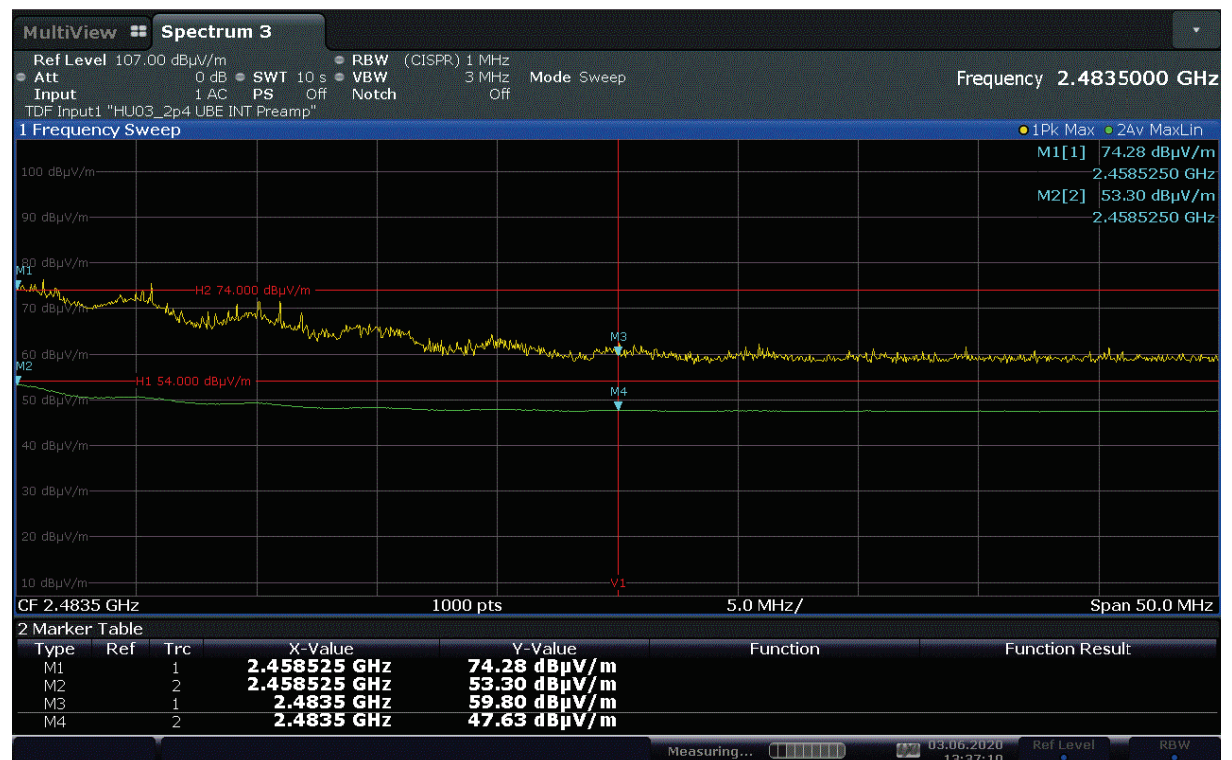


18 GHz to 26.5 GHz



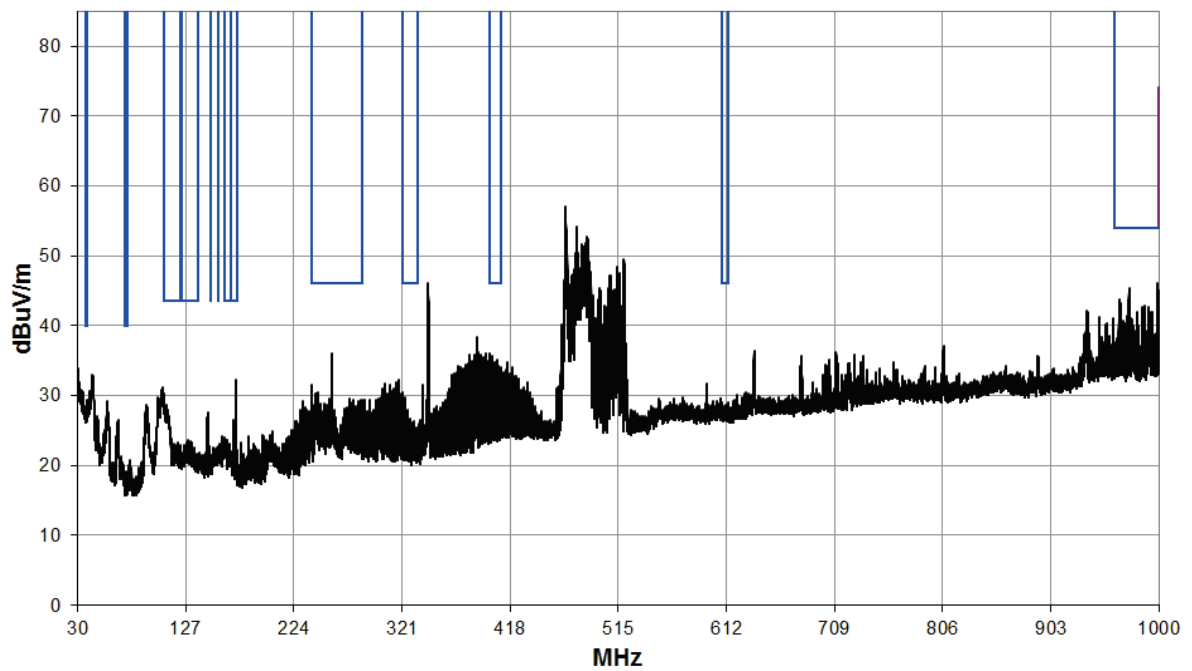
Band Edge

Element

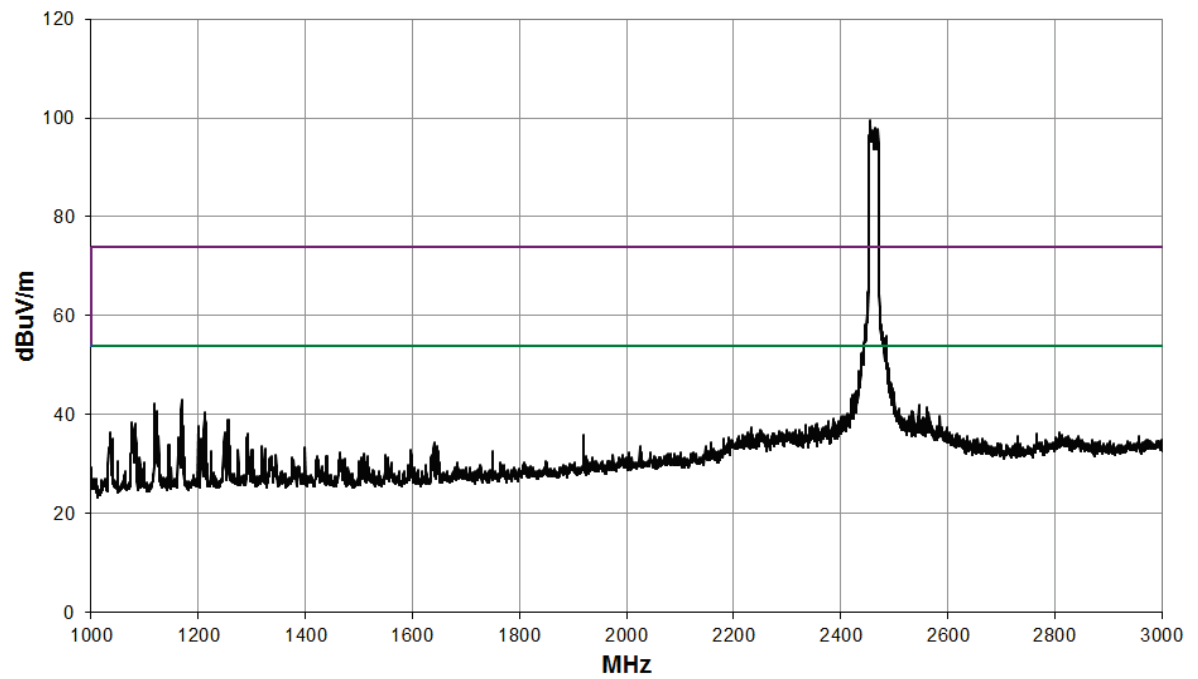


Mode: 802.11g; Channel: CH11; Frequency: 2462 MHz; Rate: 6 Mbps; Power Setting: 14;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4922.6	-0.7	5.5	33.3	0.0	0.0	0.0	38.1	80.4	500
PK	4924.3	18.8	5.5	33.3	0.0	0.0	0.0	57.6	758.6	5000
PK	12307.6	23.2	9.1	30.6	0.0	0.0	-3.5	59.4	933.3	5000
AV	12311.6	6.6	9.1	30.7	0.0	0.0	-3.5	42.9	139.6	500

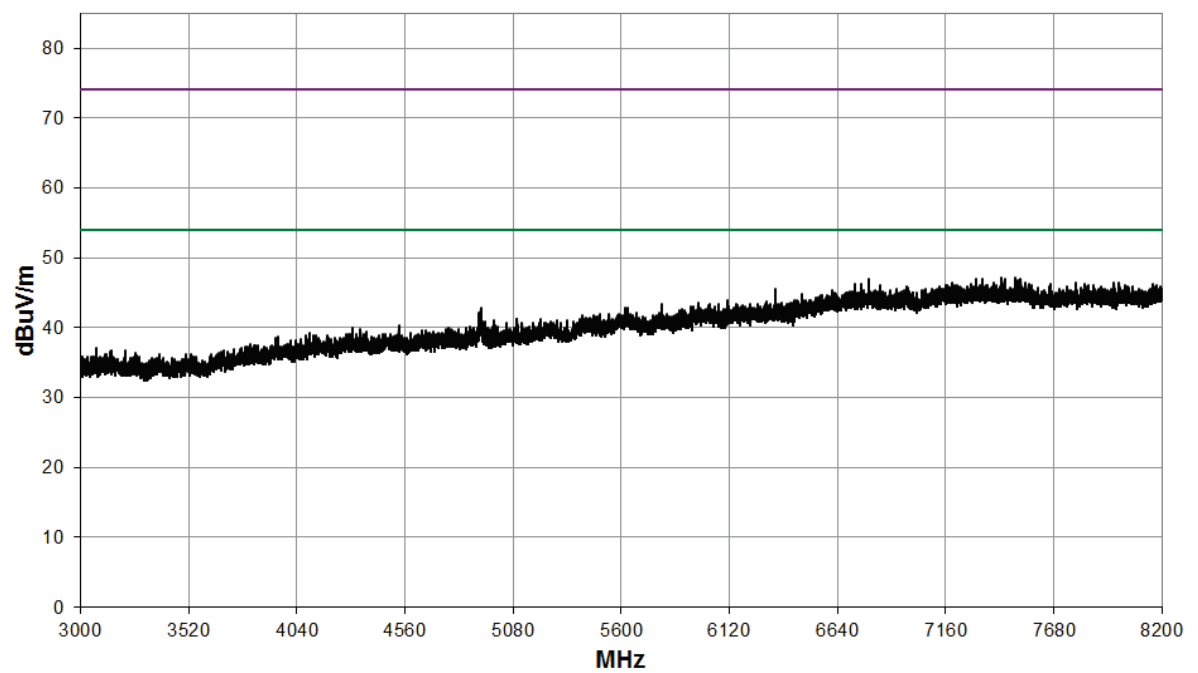
30 MHz to 1 GHz



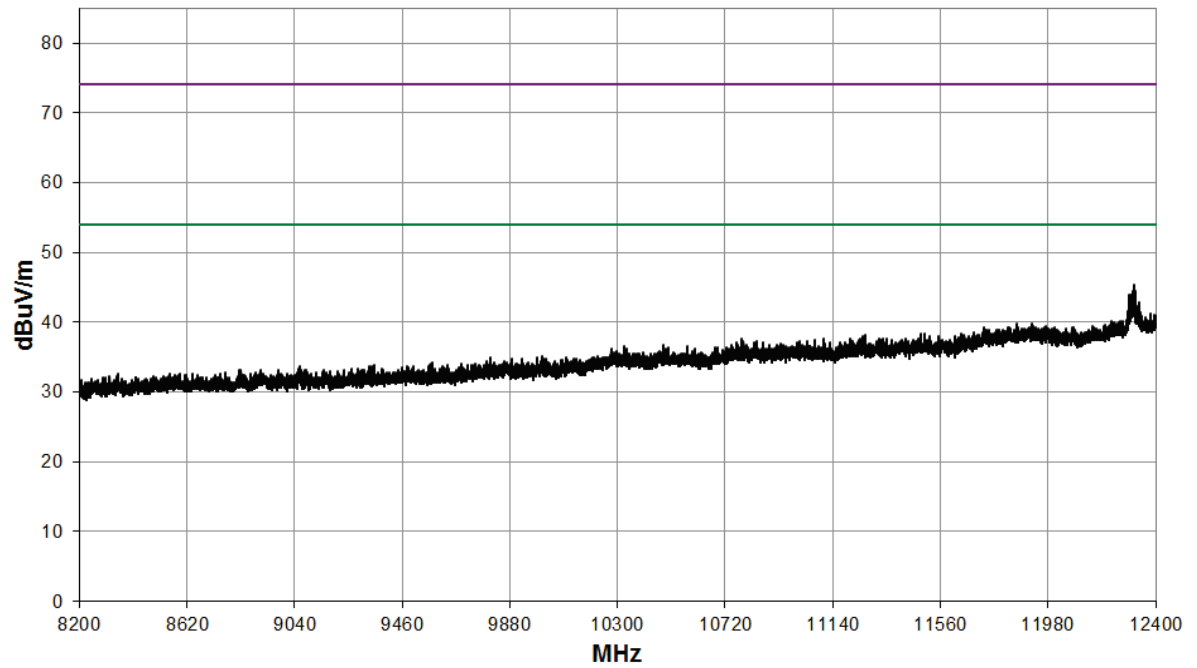
1 GHz to 3 GHz



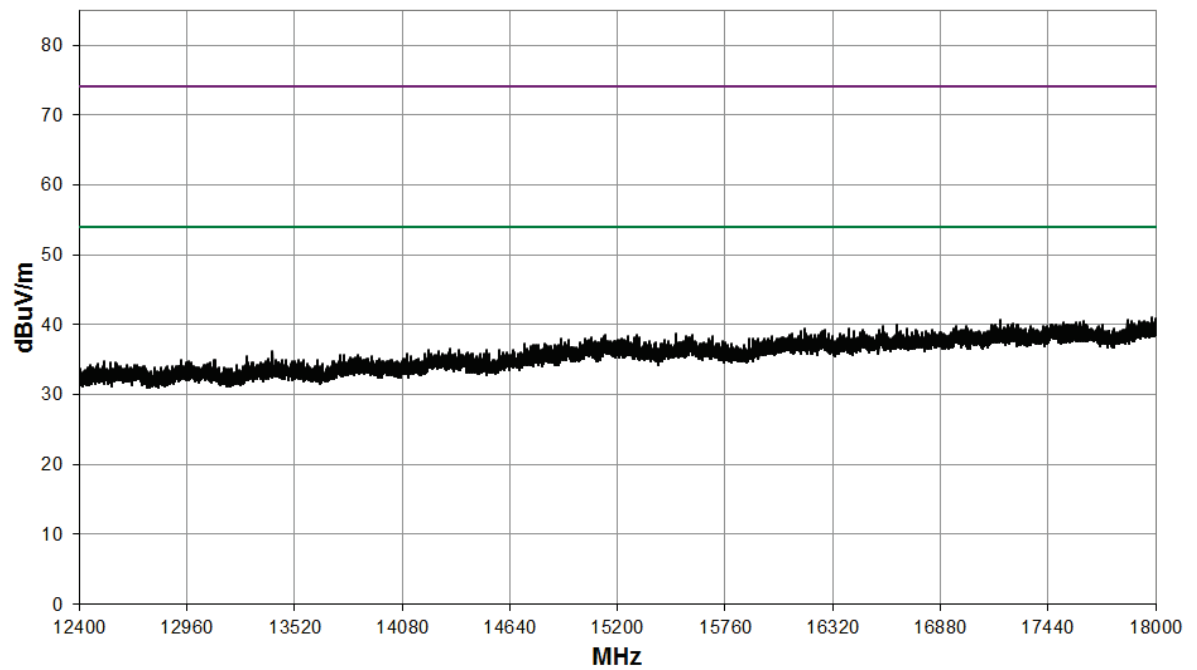
3 GHz to 8.2 GHz



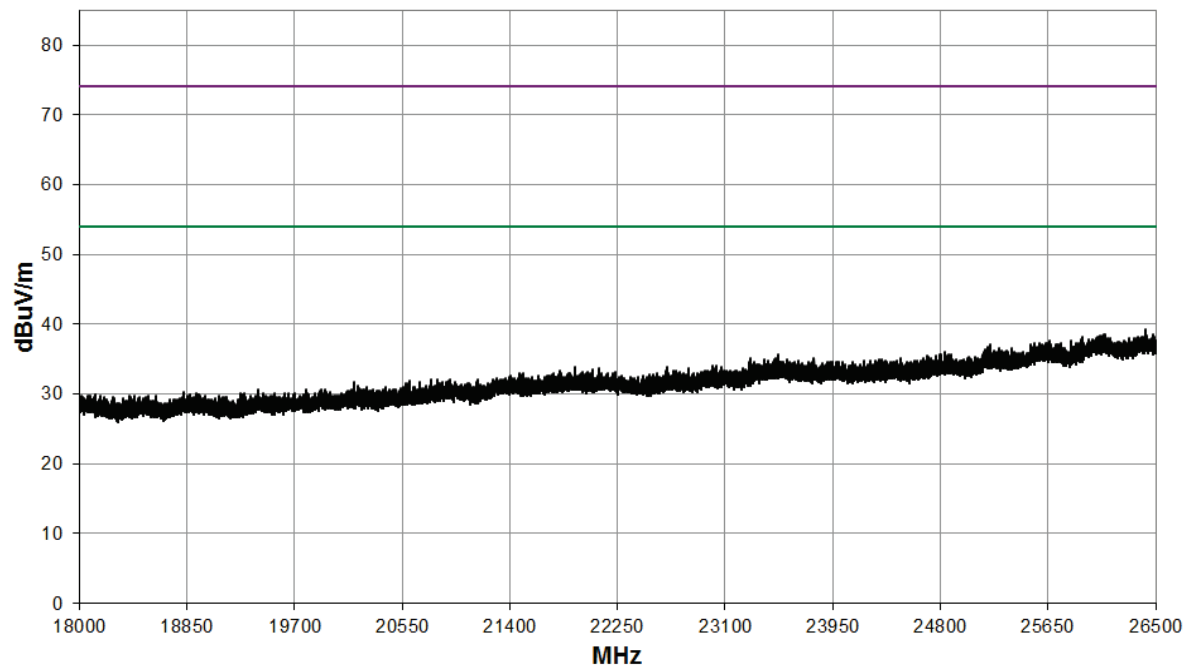
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

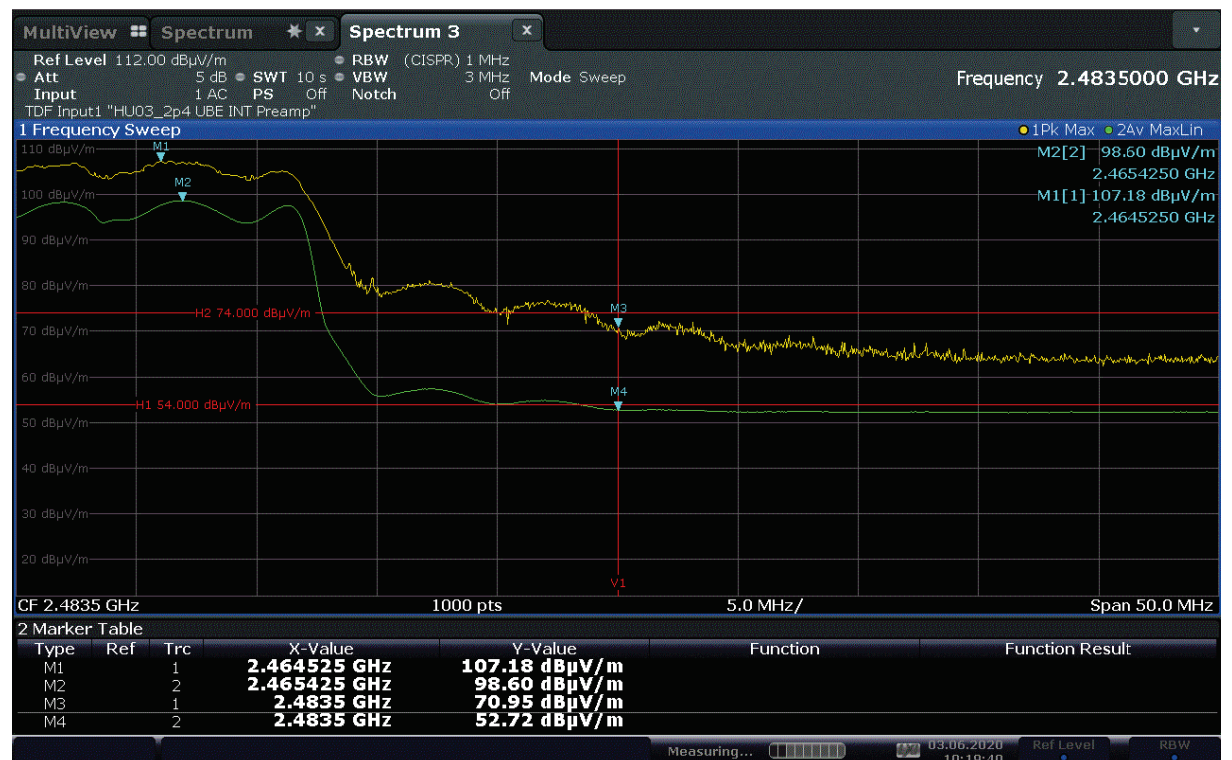


18 GHz to 26.5 GHz



Band Edge

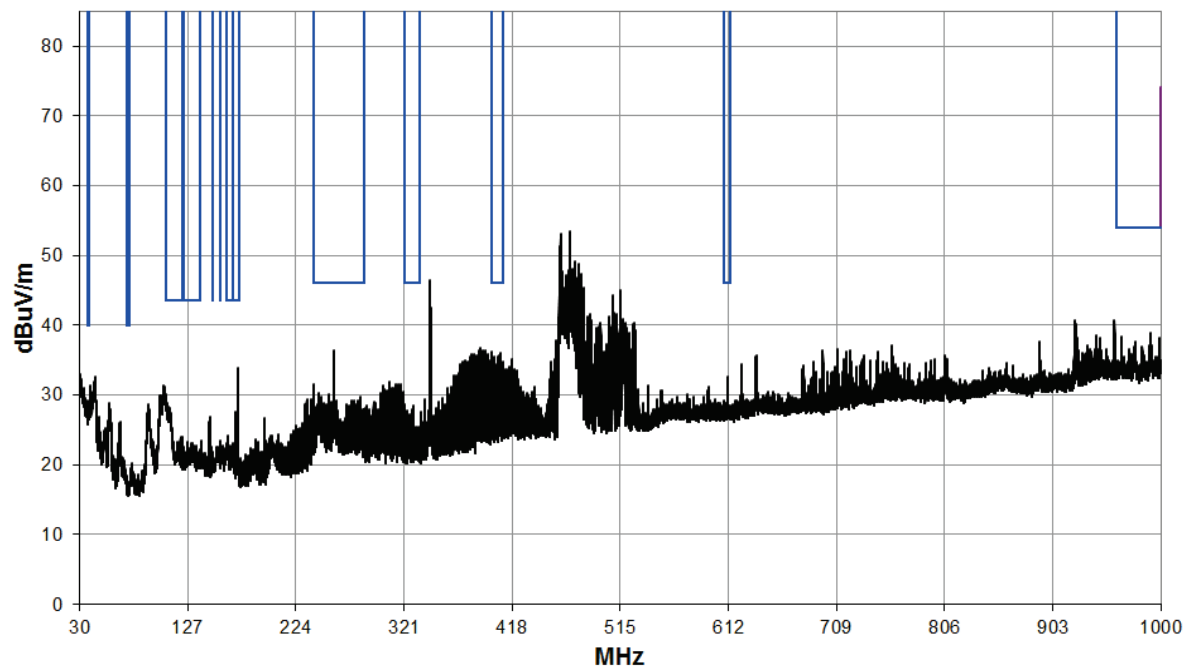
Element



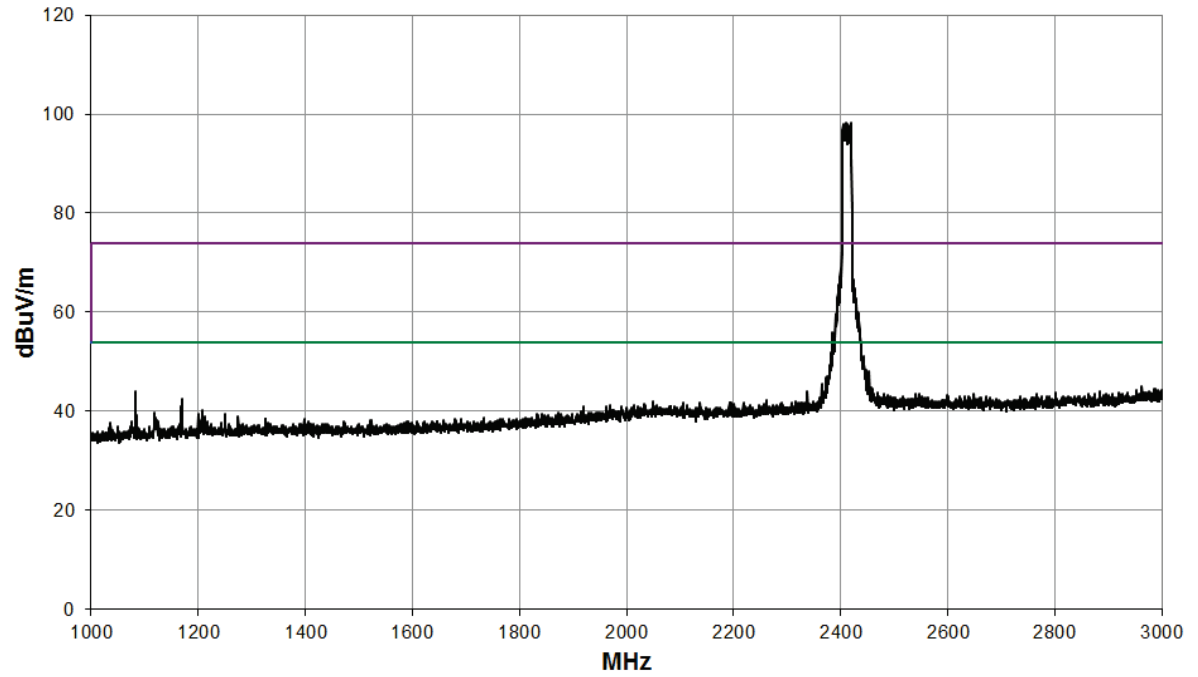
Mode: 802.11g; Channel: CH1; Frequency: 2412 MHz; Rate: 54 Mbps; Power Setting: 15;

Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4822.3	-0.2	5.4	33.3	0.0	0.0	0.0	38.5	84.1	500
PK	4824.1	20.6	5.4	33.3	0.0	0.0	0.0	59.3	922.6	5000
PK	12309.0	19.5	9.1	30.7	0.0	0.0	0.0	59.3	922.6	5000
AV	12311.7	4.6	9.1	30.7	0.0	0.0	0.0	44.4	166.0	500
AV	14772.2	1.6	10.6	32.3	0.0	0.0	9.5	35.0	56.2	500

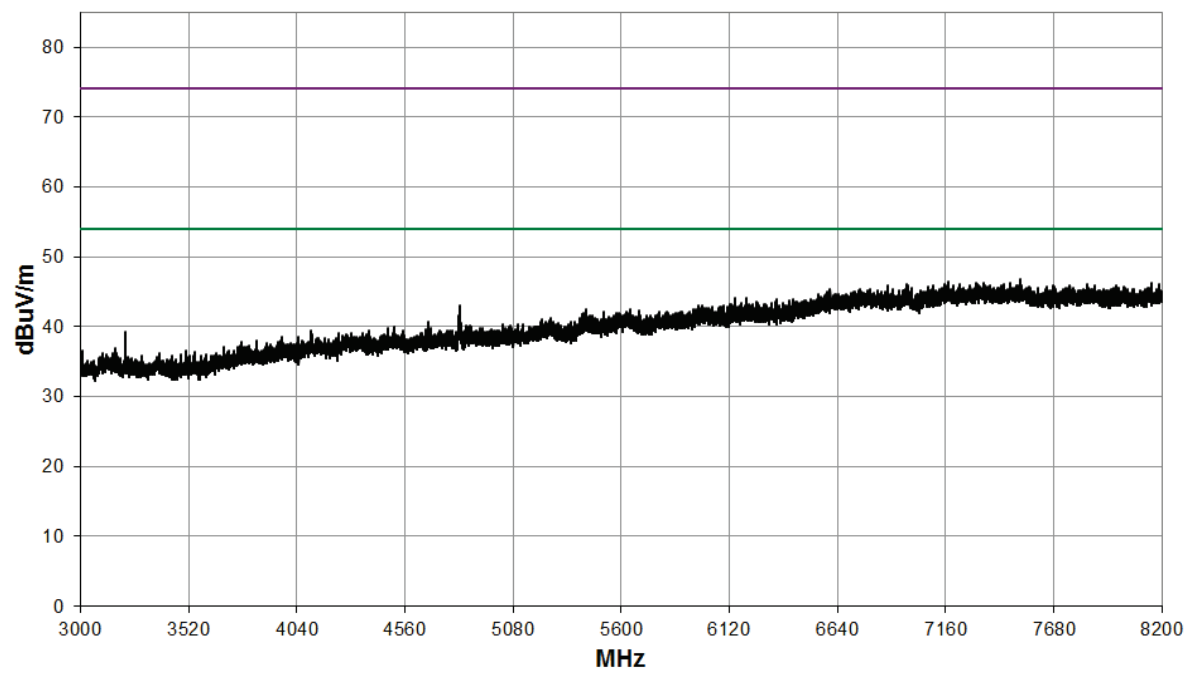
30 MHz to 1 GHz



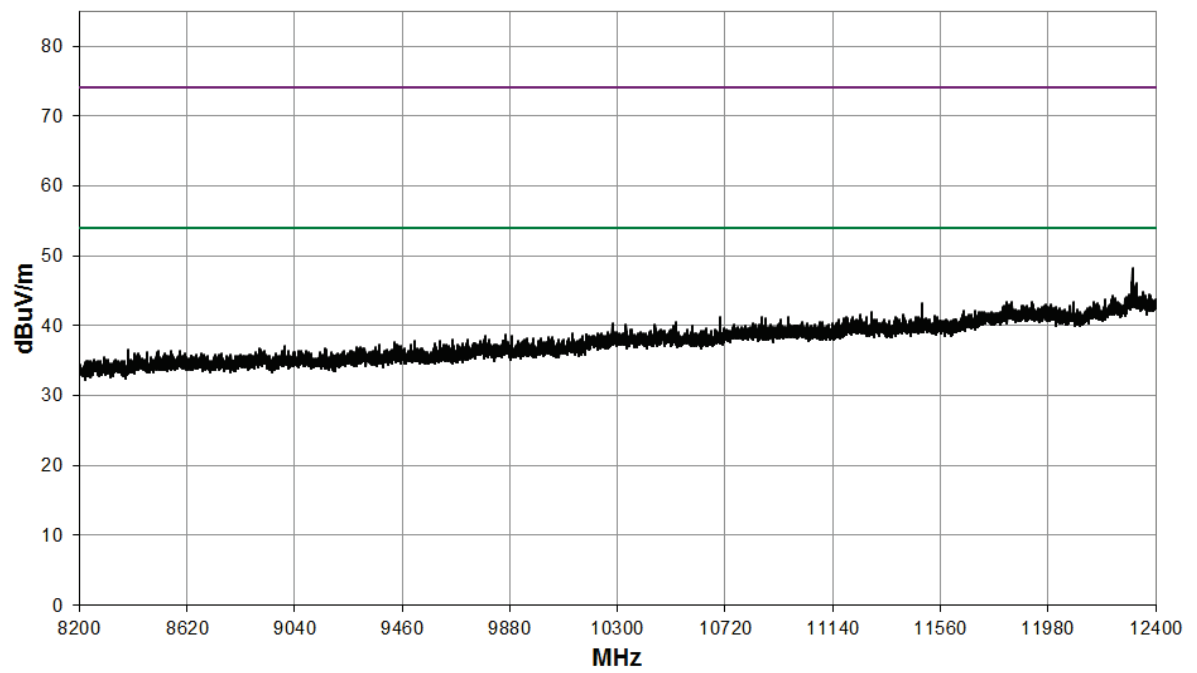
1 GHz to 3 GHz



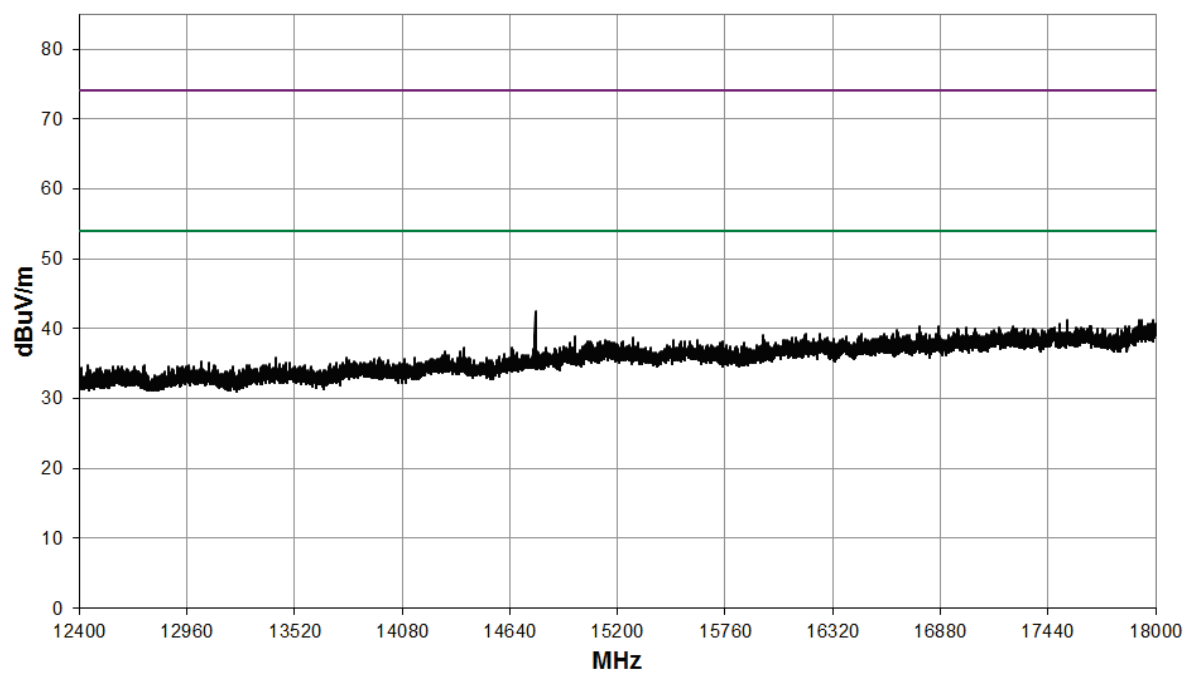
3 GHz to 8.2 GHz



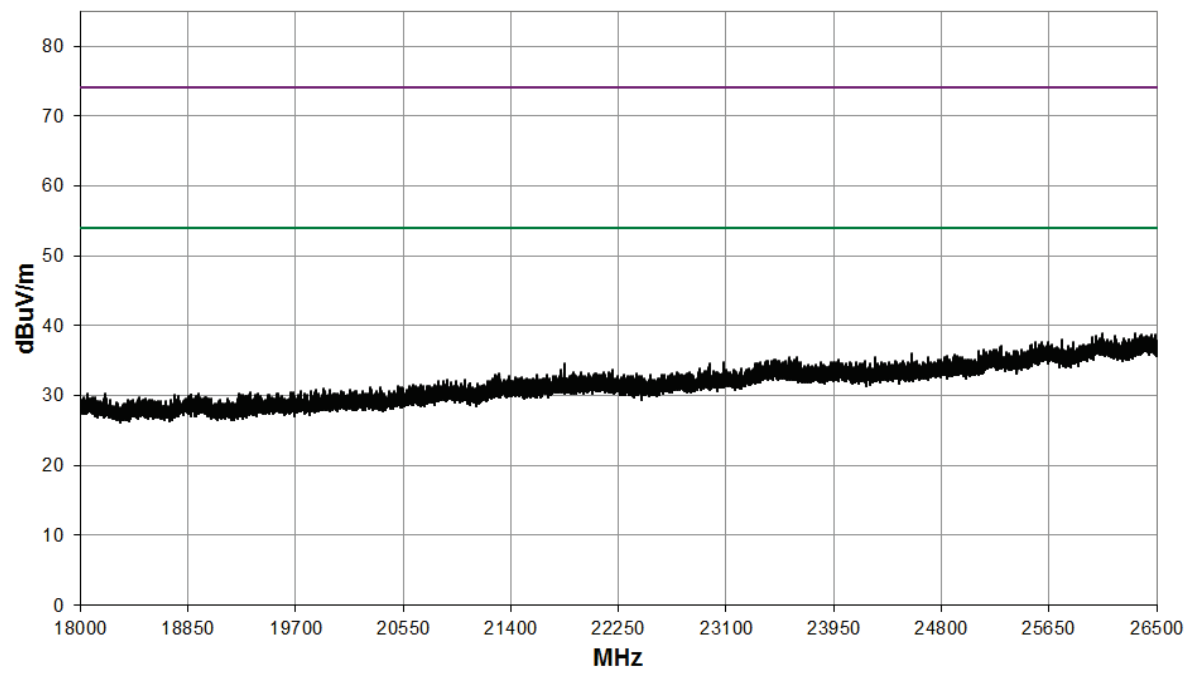
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



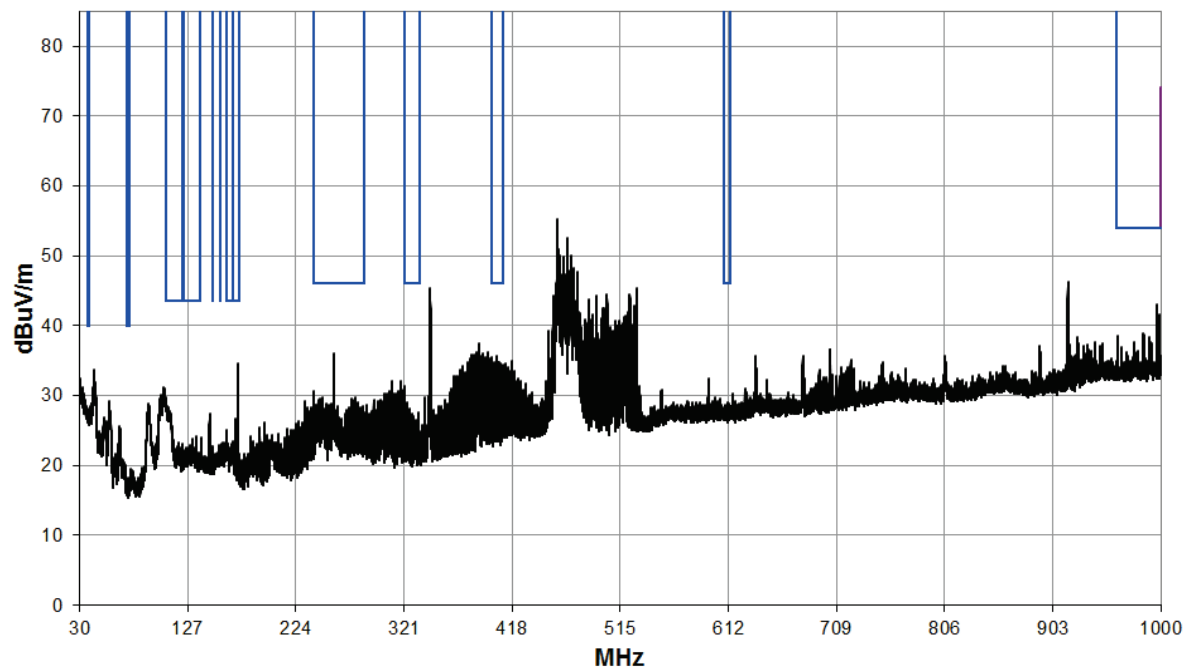
18 GHz to 26.5 GHz



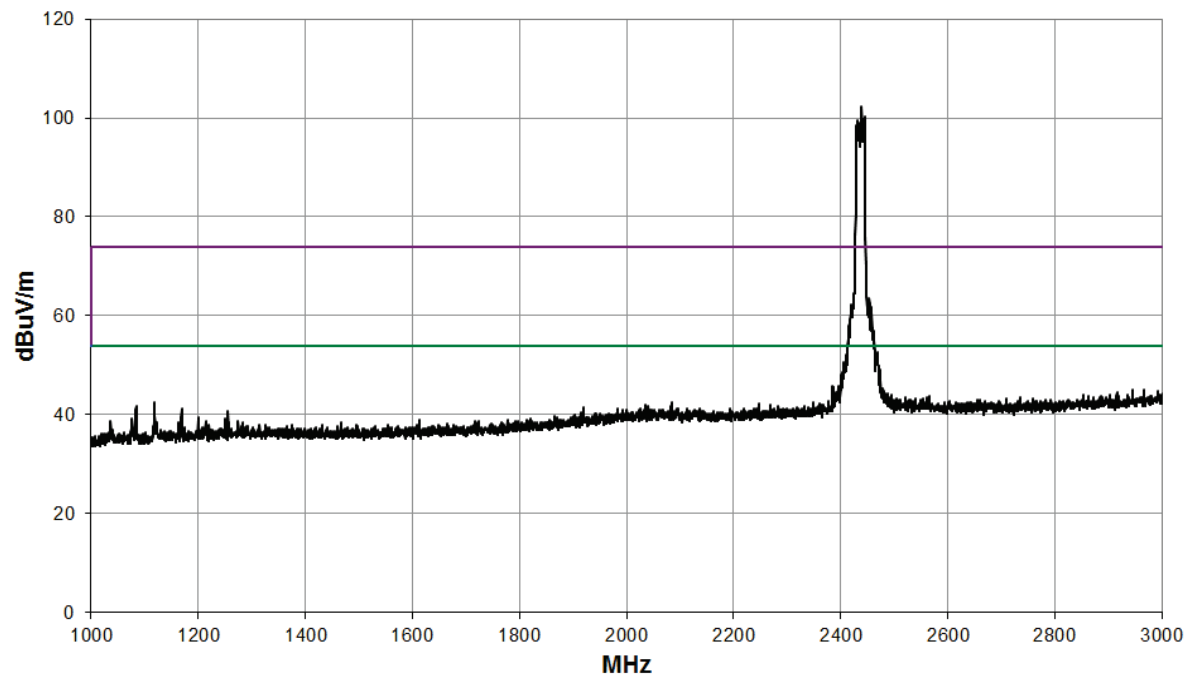
Mode: 802.11g; Channel: CH6; Frequency: 2437 MHz; Rate: 54 Mbps; Power Setting: 15;

Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4873.6	-2.1	5.4	33.3	0.0	0.0	0.0	36.6	67.6	500
PK	4873.9	22.5	5.4	33.3	0.0	0.0	0.0	61.2	1148.2	5000
PK	12182.9	24.5	9.1	30.3	0.0	0.0	0.0	63.9	1566.8	5000
AV	12183.3	8.3	9.1	30.2	0.0	0.0	0.0	47.6	239.9	500

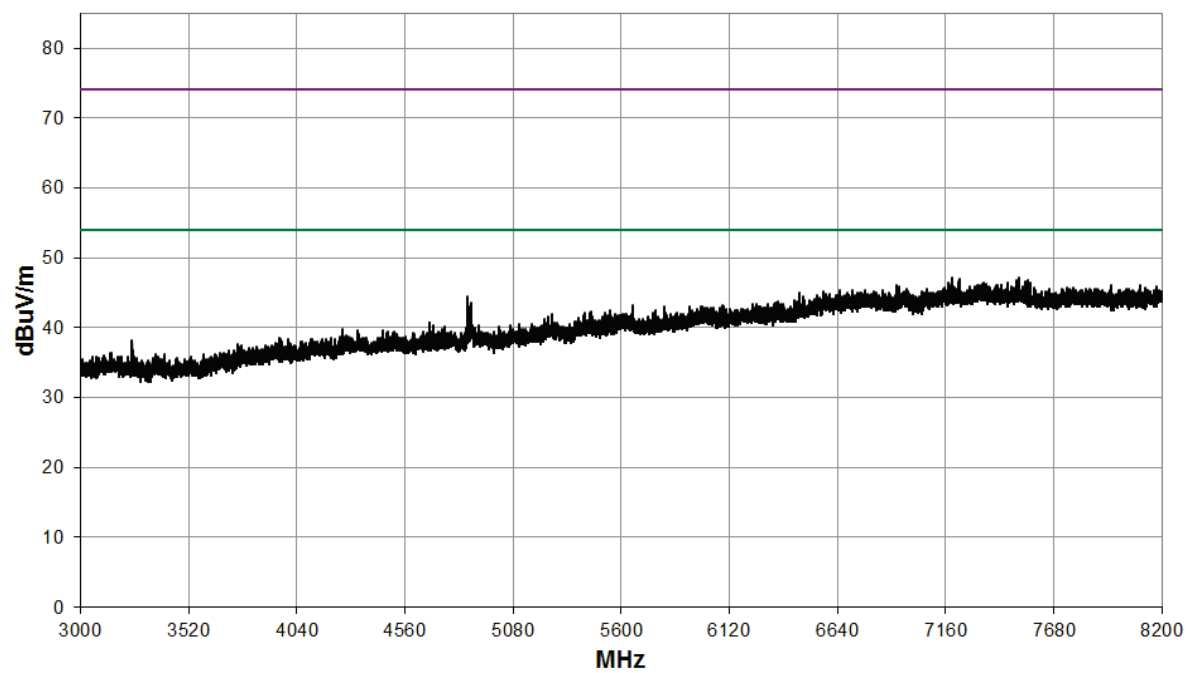
30 MHz to 1 GHz



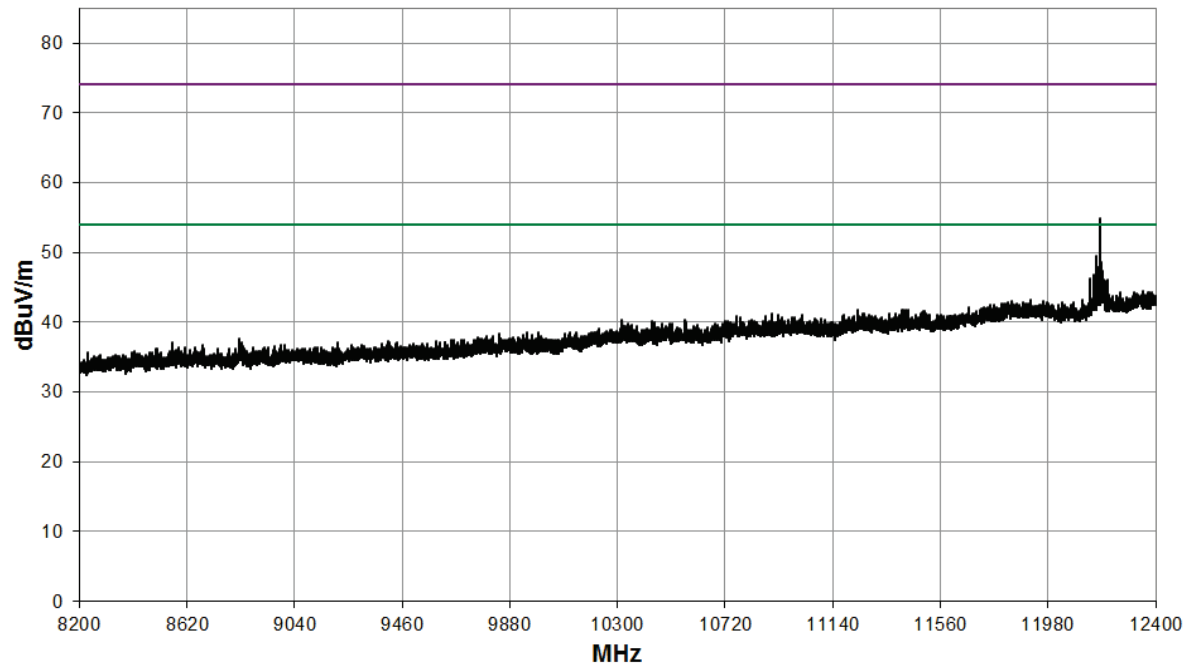
1 GHz to 3 GHz



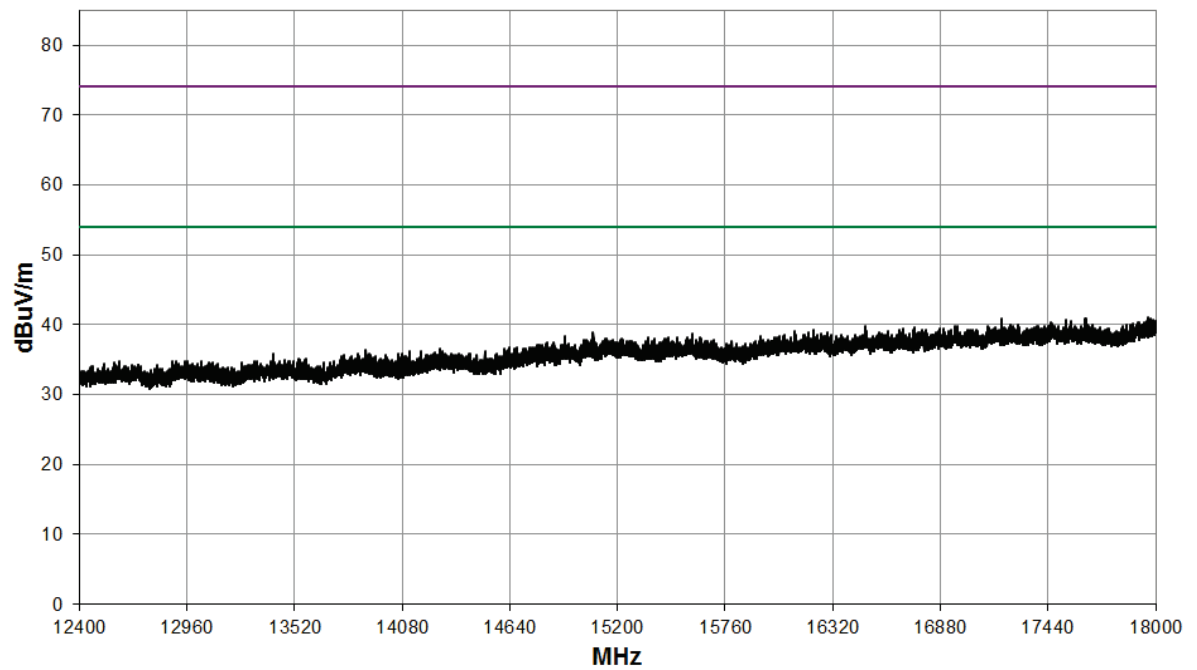
3 GHz to 8.2 GHz



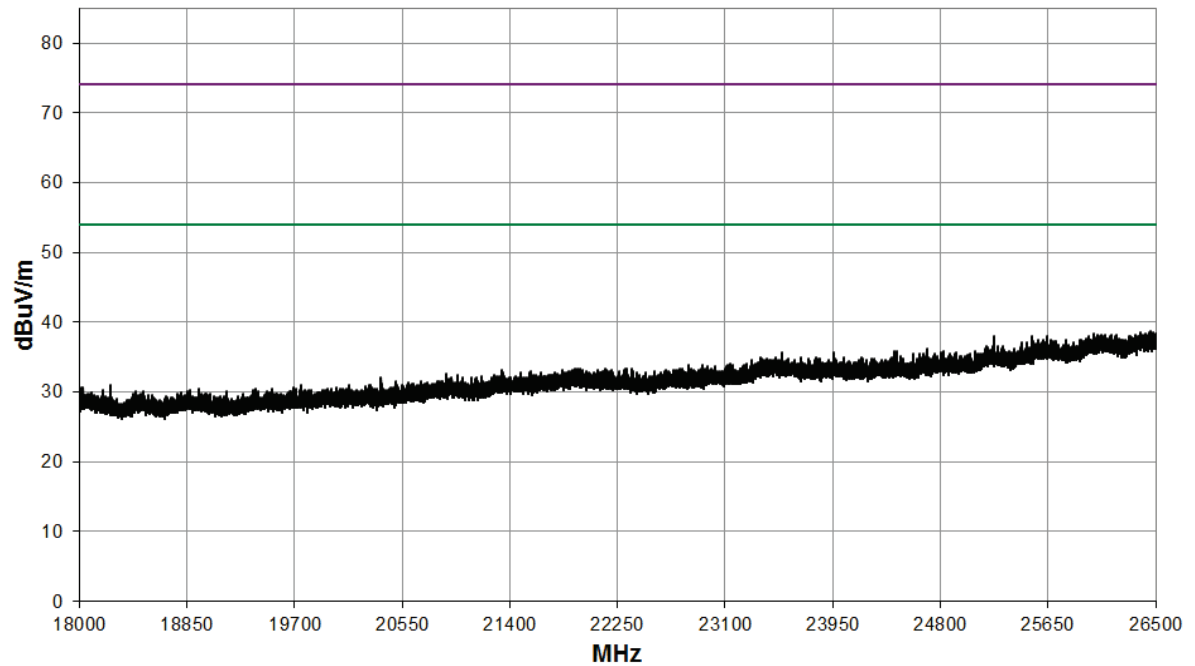
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

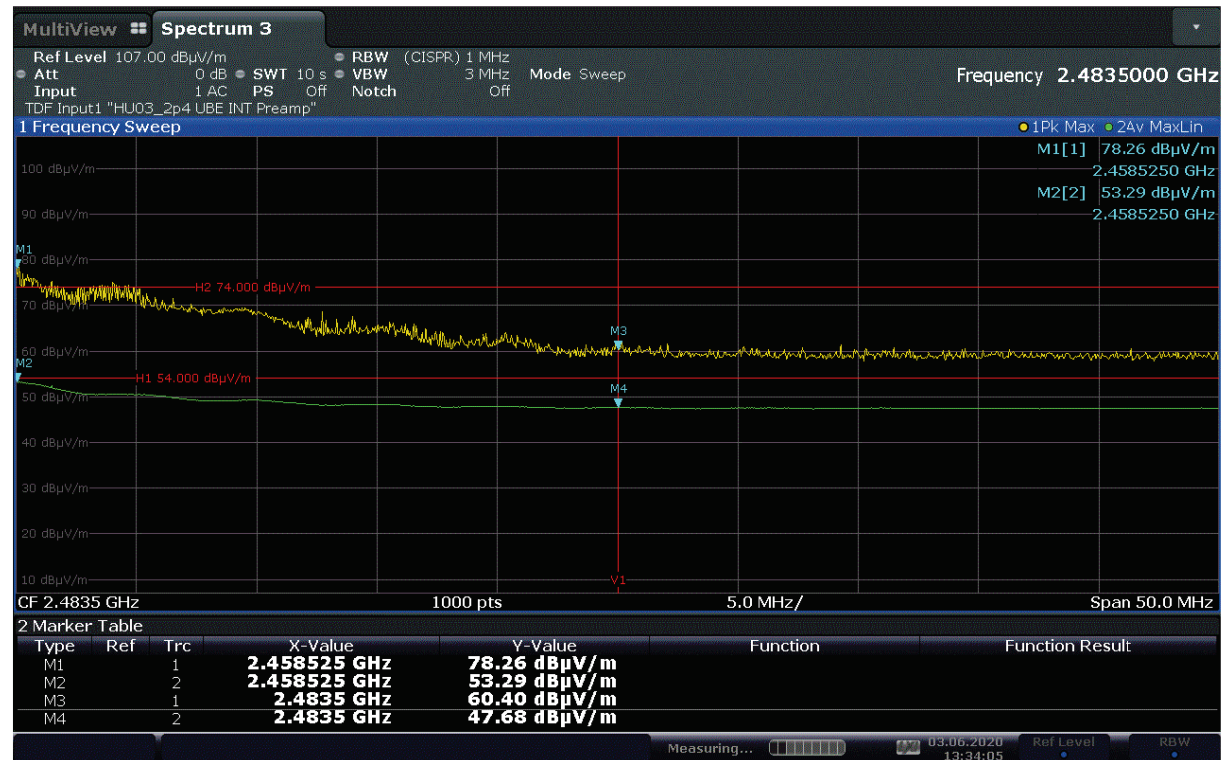


18 GHz to 26.5 GHz



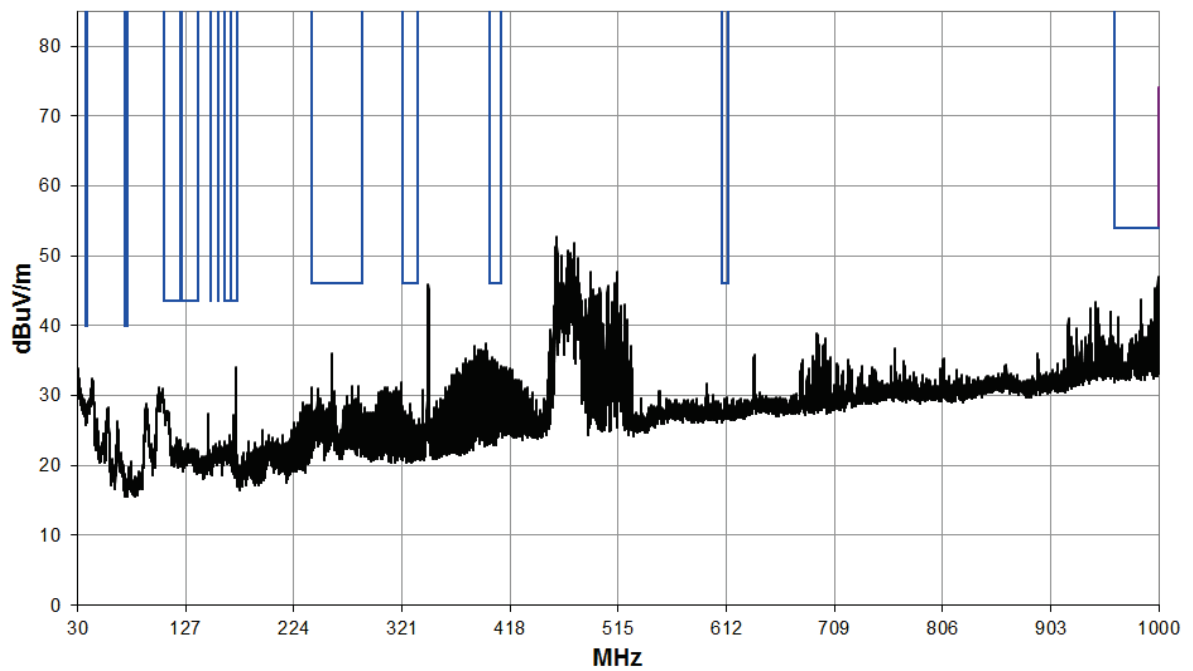
Band Edge

Element

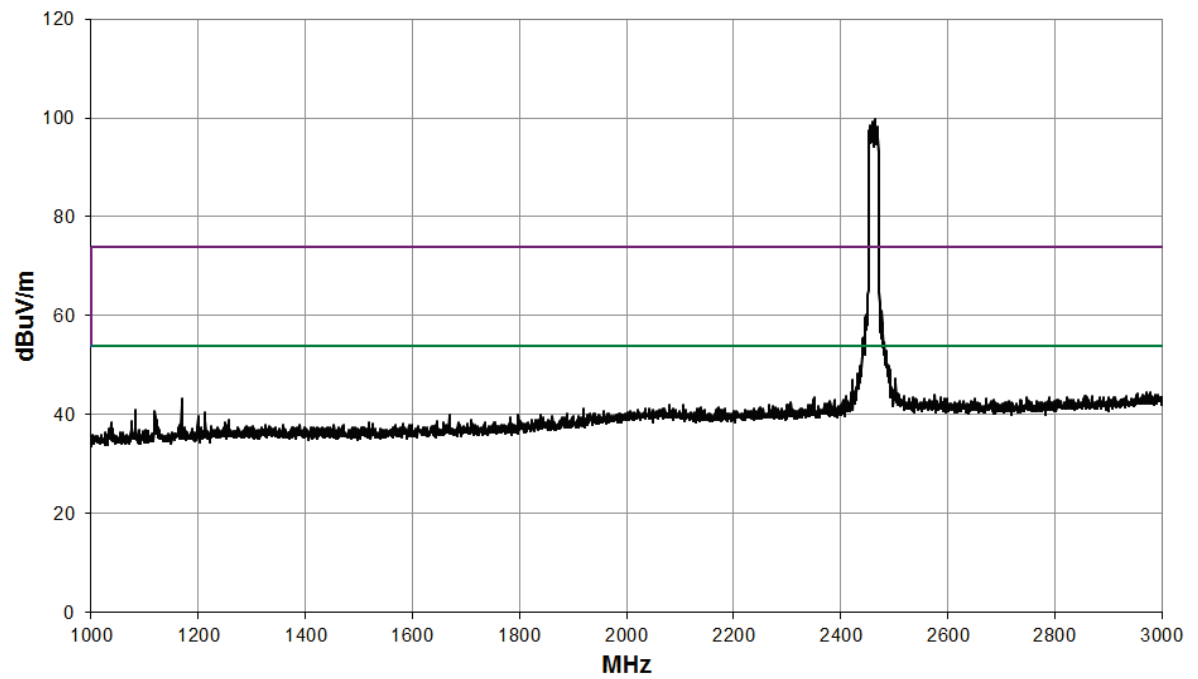


Mode: 802.11g; Channel: CH11; Frequency: 2462 MHz; Rate: 54 Mbps; Power Setting: 14;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4922.4	-0.7	5.5	33.3	0.0	0.0	0.0	38.1	80.4	500
PK	4926.6	19.3	5.5	33.3	0.0	0.0	0.0	58.1	803.5	5000
AV	12315.6	1.2	9.1	30.7	0.0	0.0	0.0	41.0	112.2	500
PK	12319.9	16.7	9.1	30.7	0.0	0.0	0.0	56.5	668.3	5000

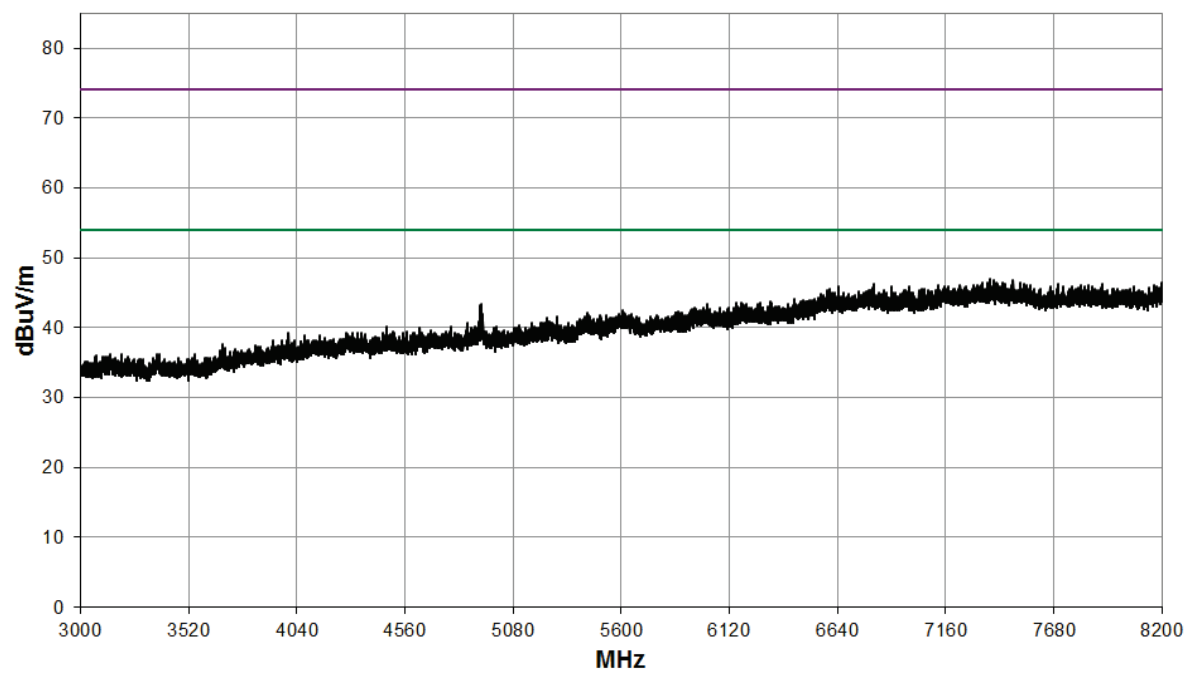
30 MHz to 1 GHz



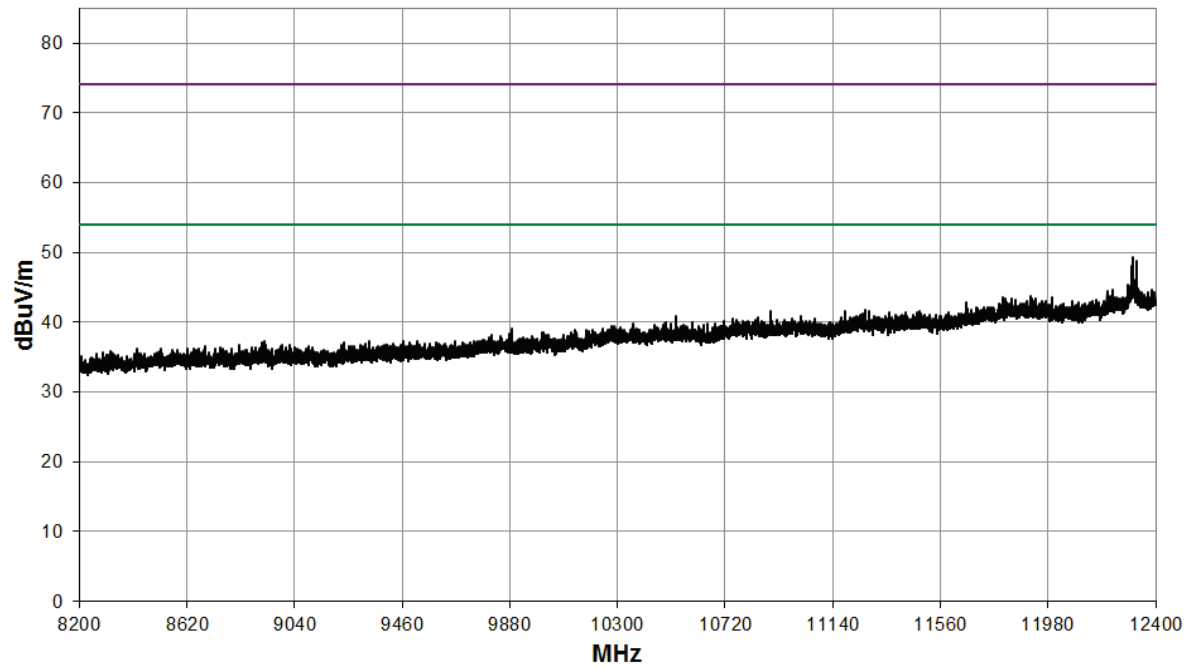
1 GHz to 3 GHz



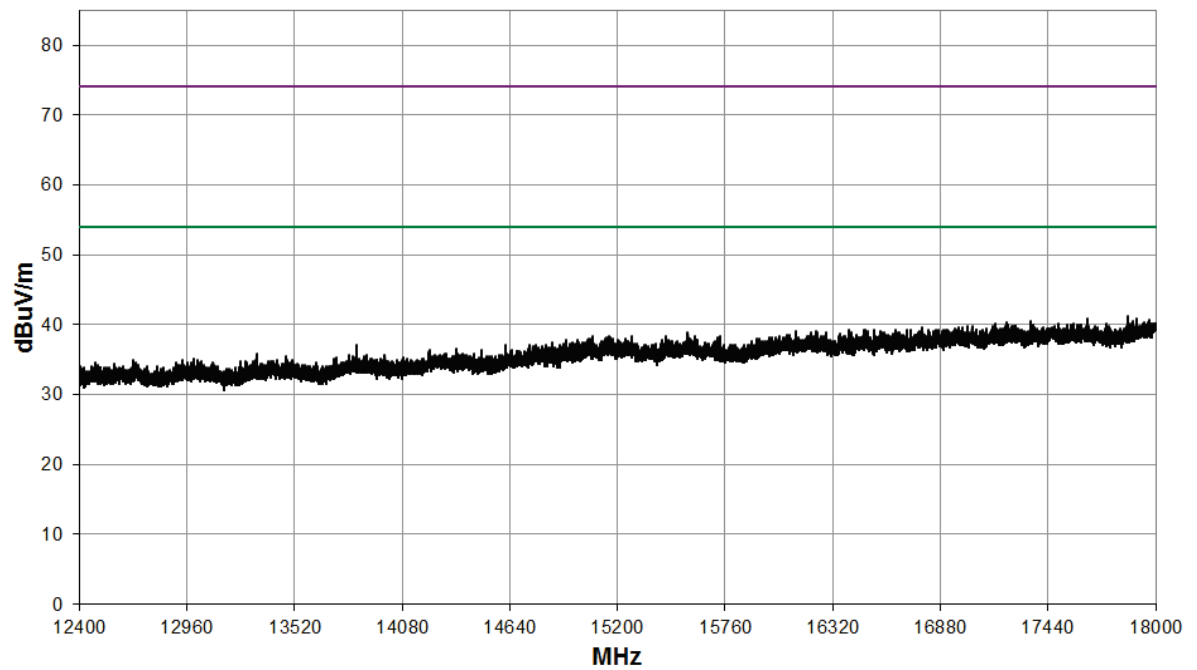
3 GHz to 8.2 GHz



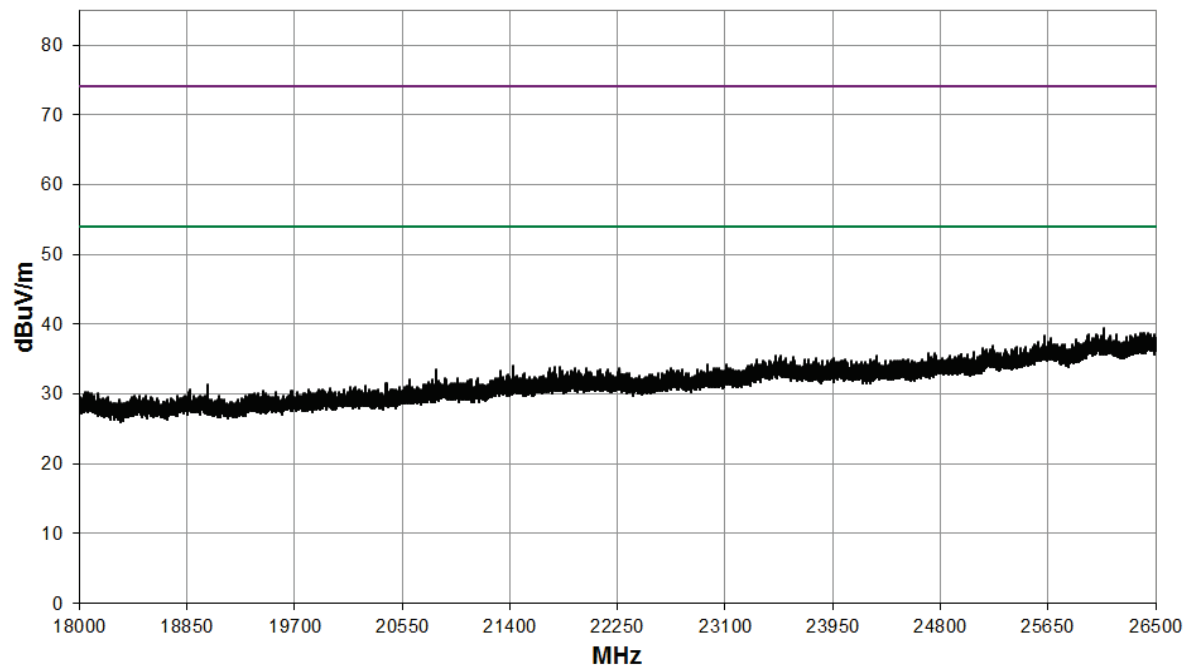
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

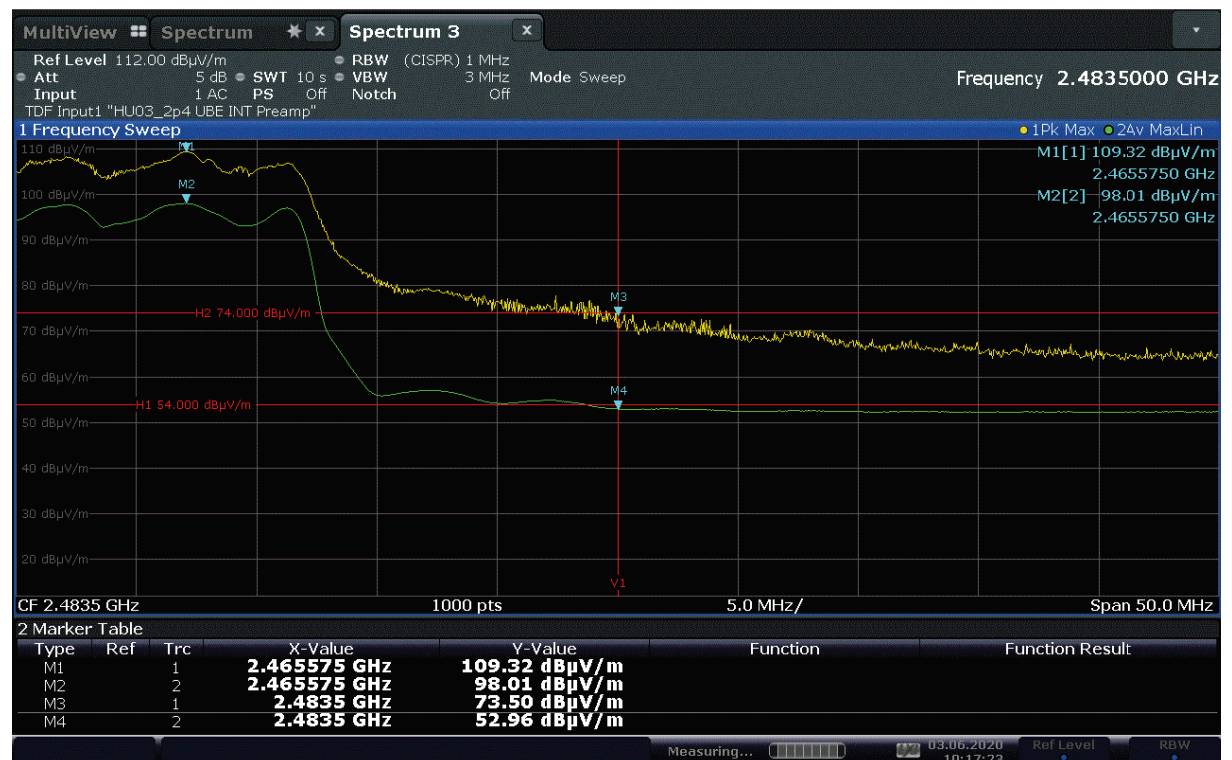


18 GHz to 26.5 GHz



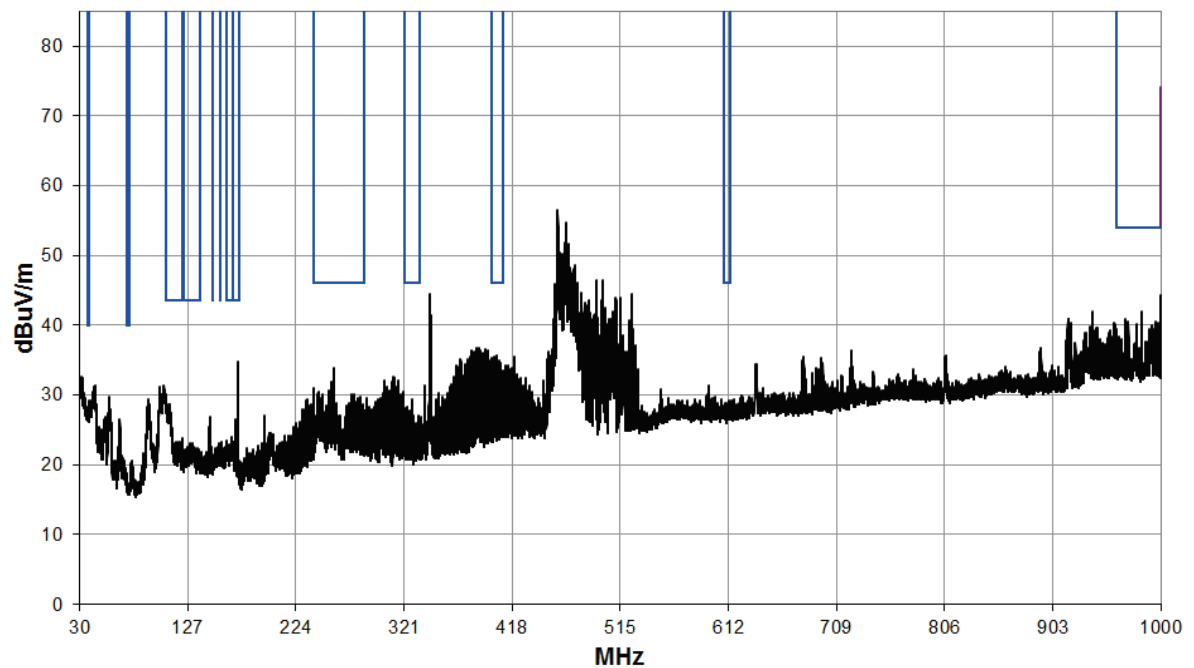
Band Edge

Element

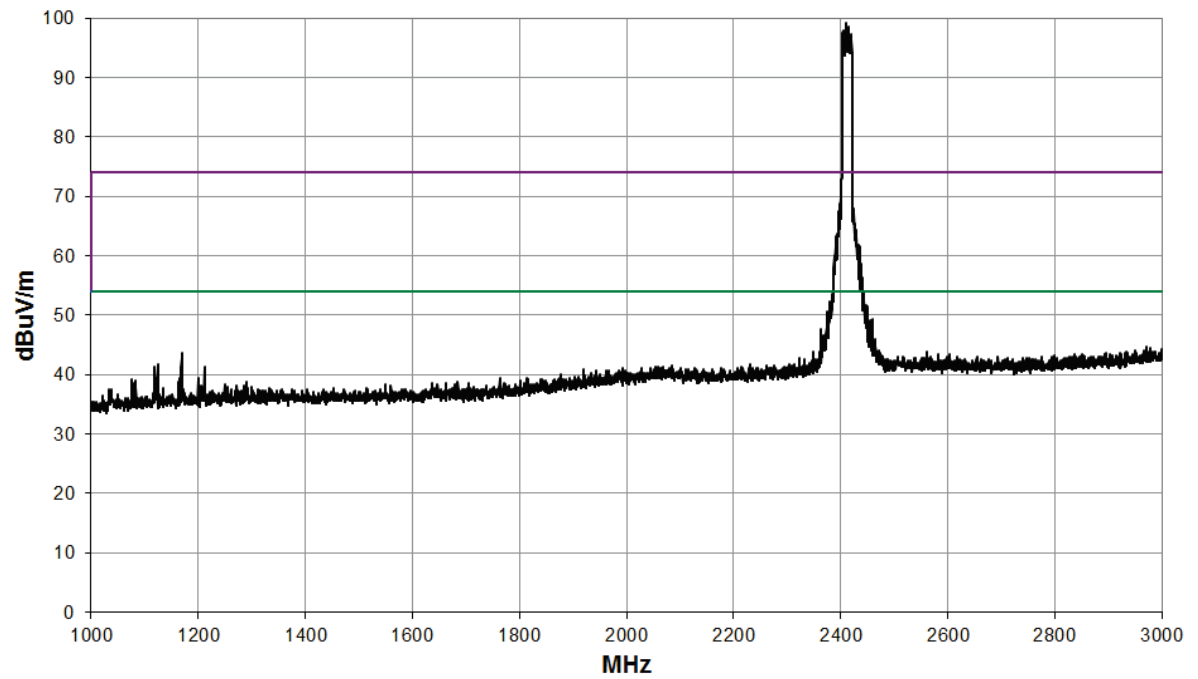


Mode: 802.11n20; Channel: CH1; Frequency: 2412 MHz; MCS index: MCS0; Power Setting: 15;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4822.0	-0.8	5.4	33.3	0.0	0.0	0.0	37.9	78.5	500
PK	4828.4	21.8	5.4	33.3	0.0	0.0	0.0	60.5	1059.3	5000
PK	12067.7	19.8	9.0	30.6	0.0	0.0	0.0	59.4	933.3	5000
AV	12067.9	2.9	9.0	30.6	0.0	0.0	0.0	42.5	133.4	500
AV	14473.3	2.8	10.5	31.3	0.0	0.0	0.0	35.1	56.9	500

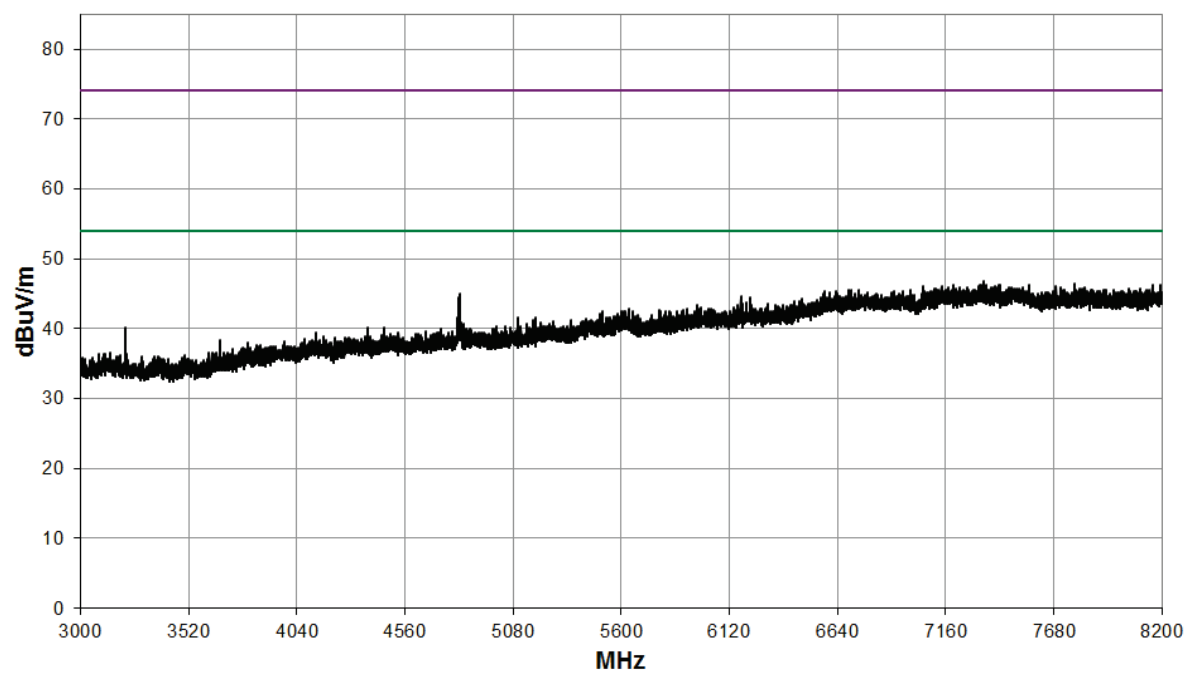
30 MHz to 1 GHz



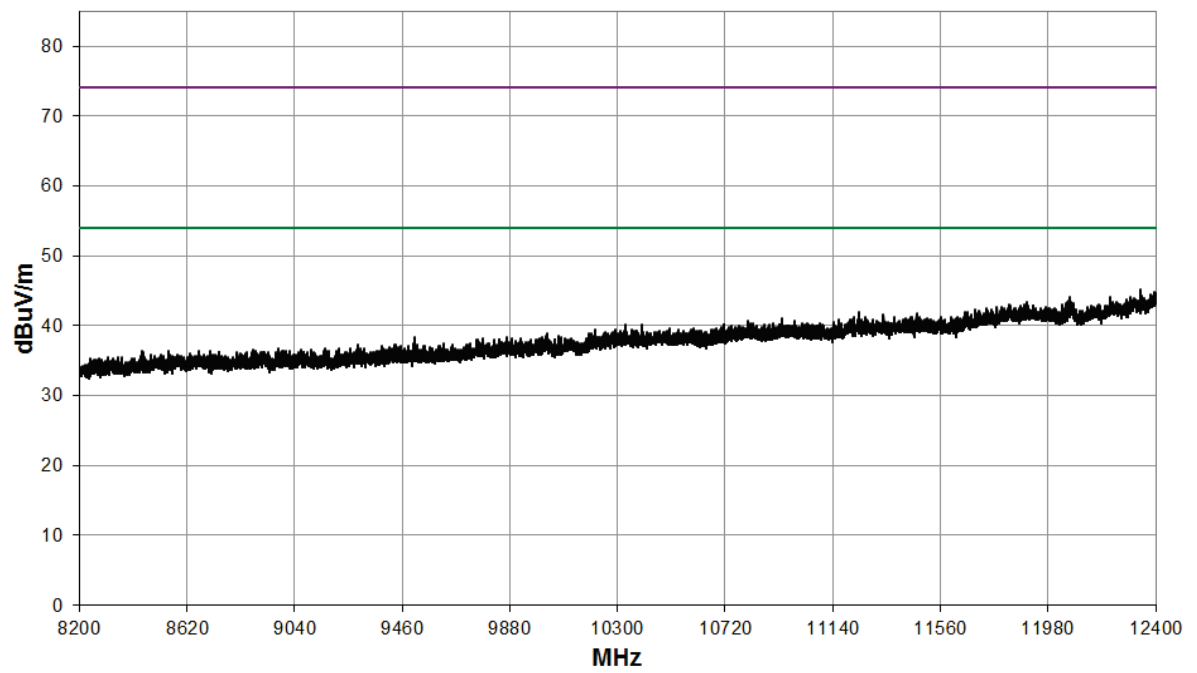
1 GHz to 3 GHz



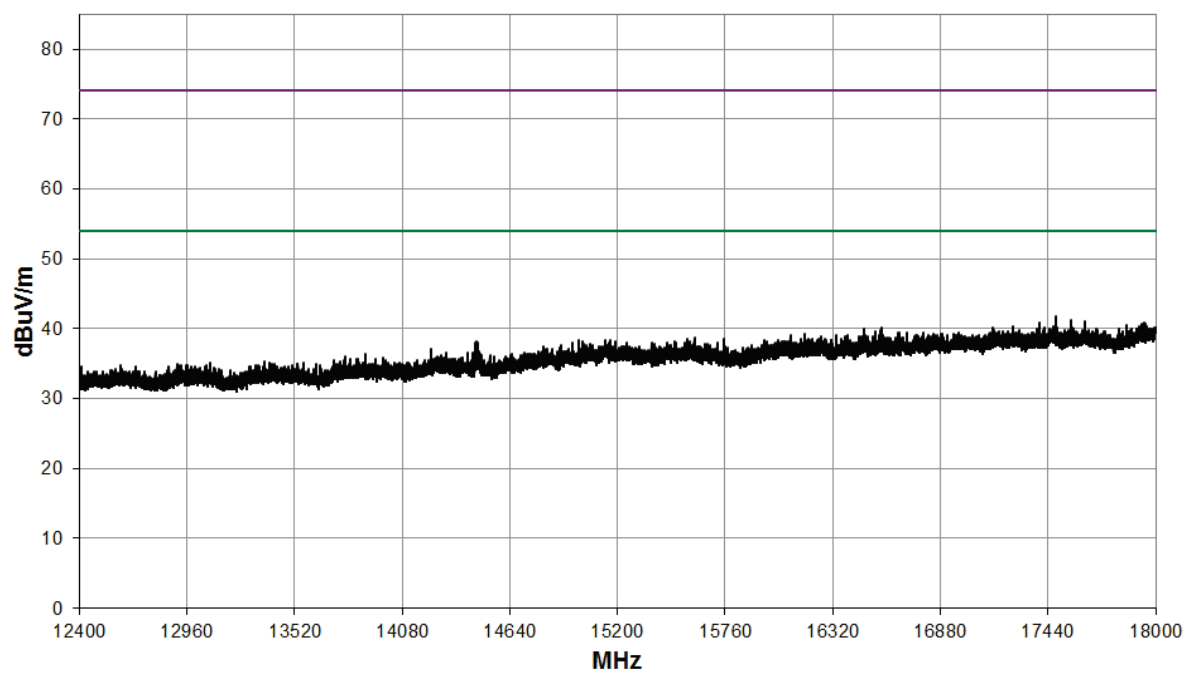
3 GHz to 8.2 GHz



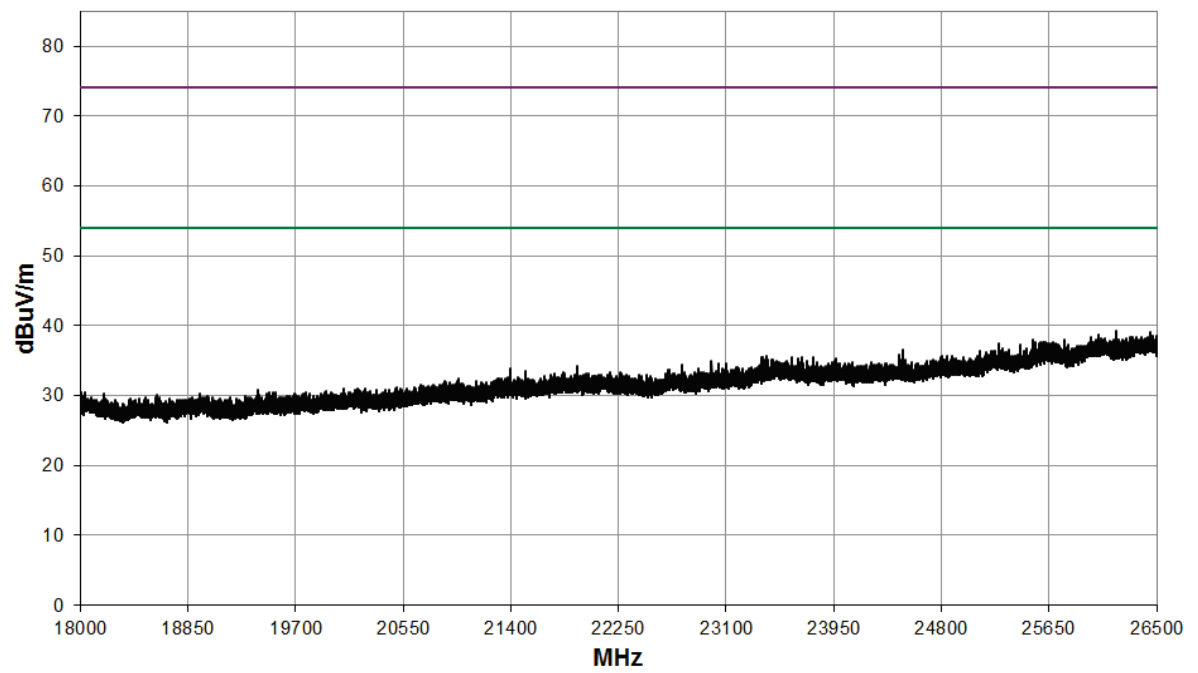
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

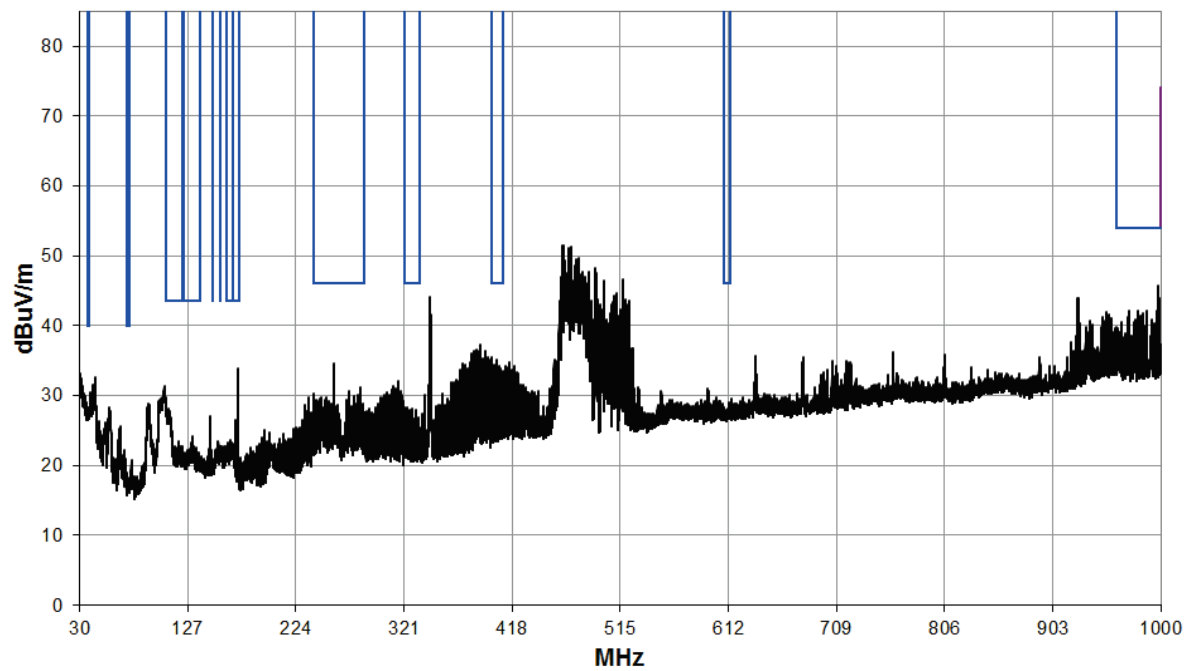


18 GHz to 26.5 GHz

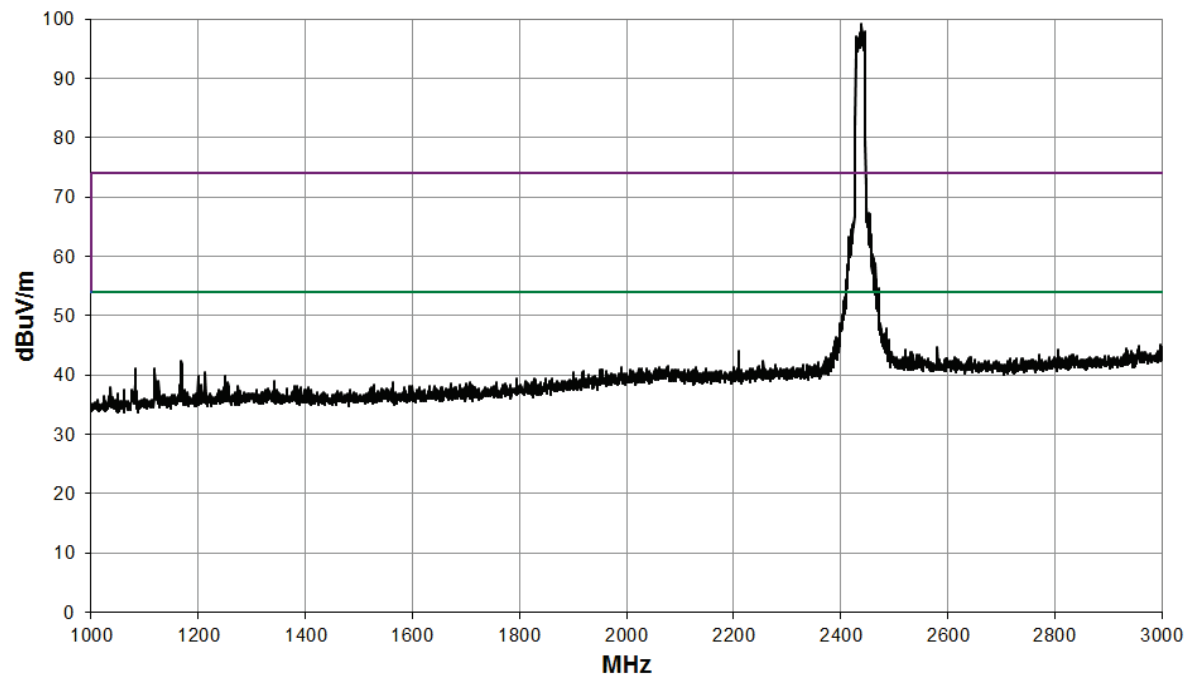


Mode: 802.11n20; Channel: CH6; Frequency: 2437 MHz; MCS index: MCS0; Power Setting: 15;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4877.8	0.0	5.4	33.3	0.0	0.0	0.0	38.7	86.1	500
PK	4879.0	25.0	5.4	3.3	0.0	0.0	0.0	63.7	1531.1	5000
AV	12185.8	8.7	9.1	30.2	0.0	0.0	0.0	48.0	251.2	500
PK	12168.0	25.6	9.1	30.2	0.0	0.0	0.0	64.9	1757.9	5000

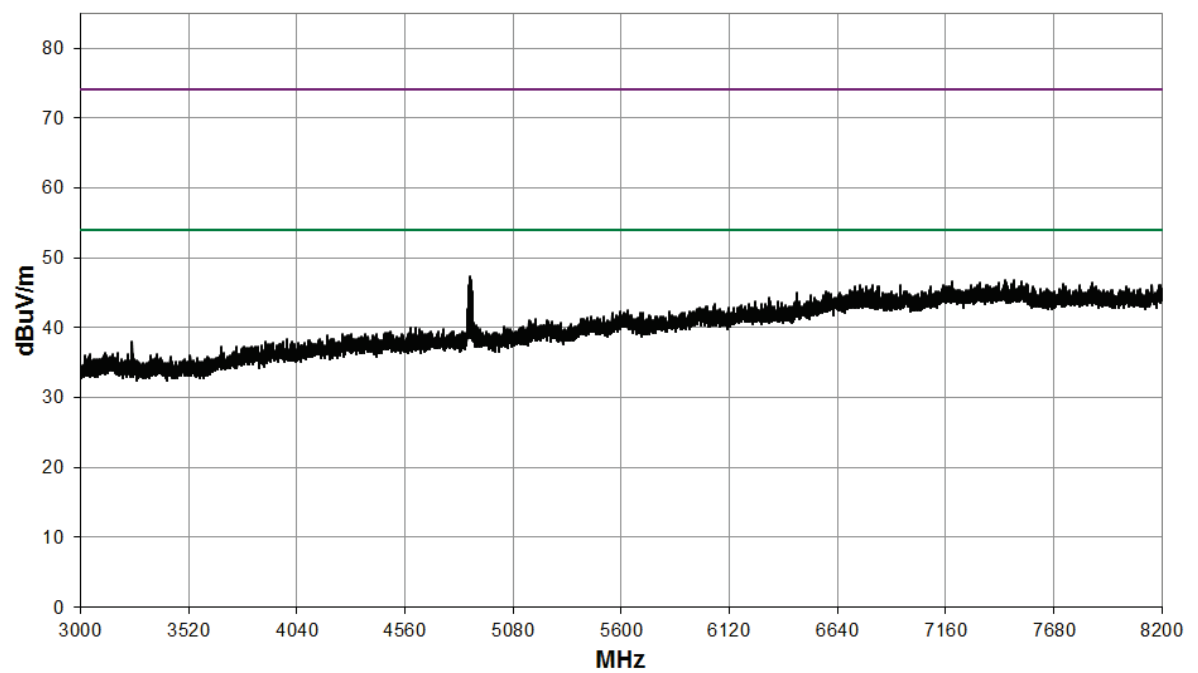
30 MHz to 1 GHz



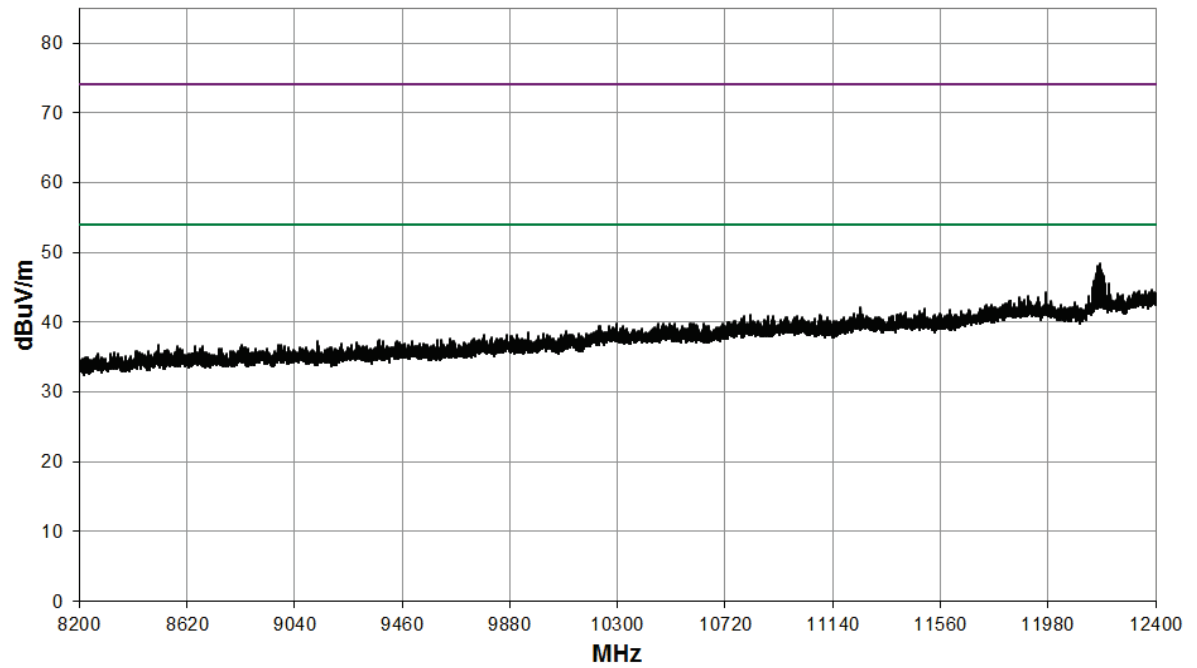
1 GHz to 3 GHz



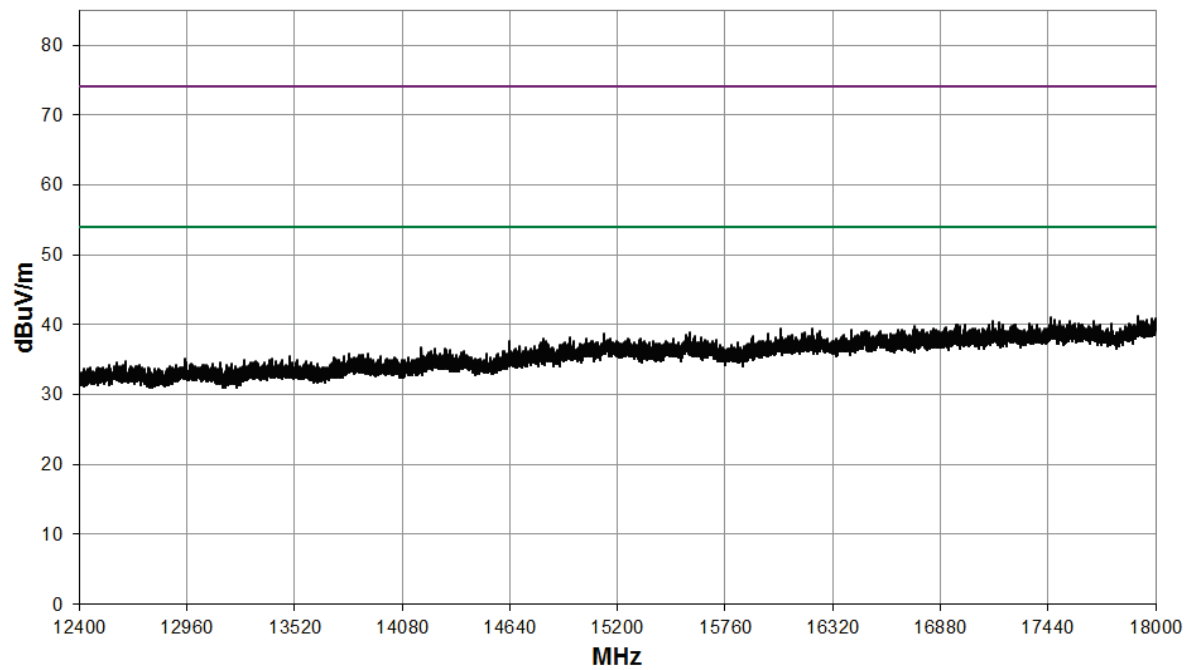
3 GHz to 8.2 GHz



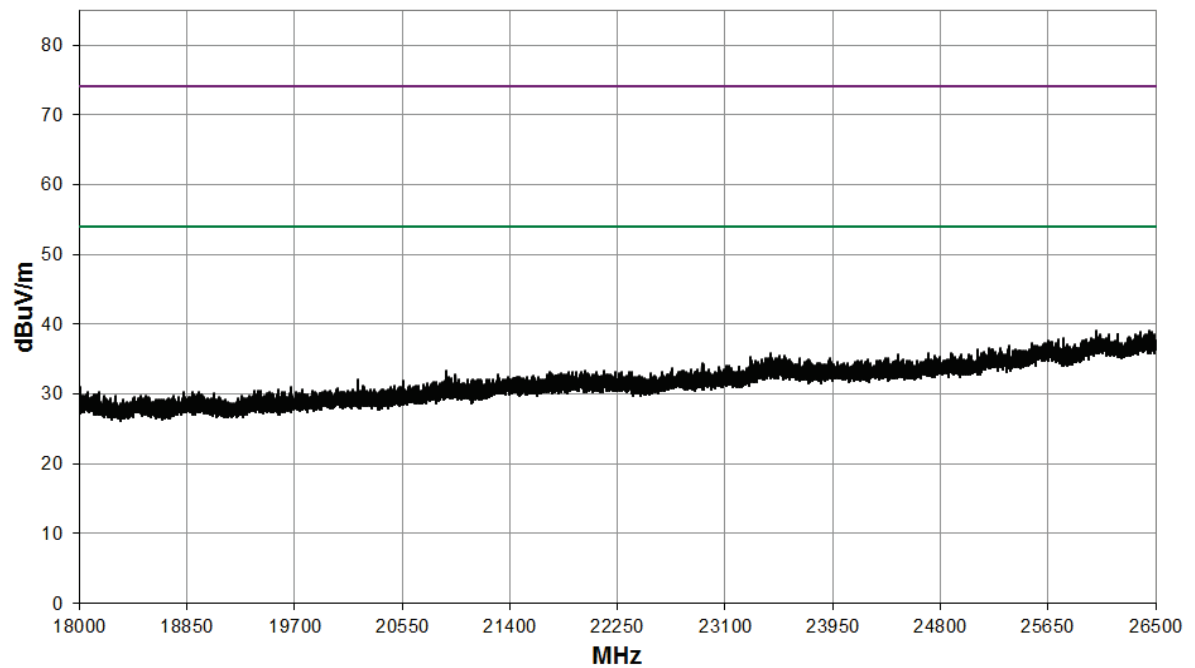
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



18 GHz to 26.5 GHz



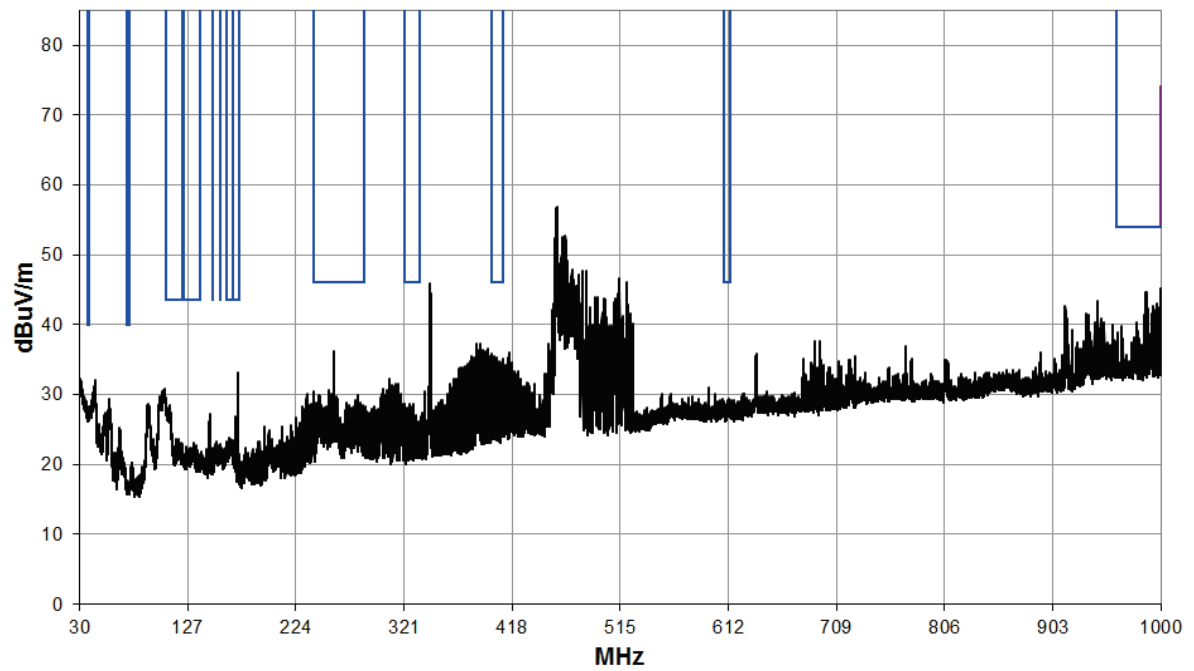
Band Edge

Element

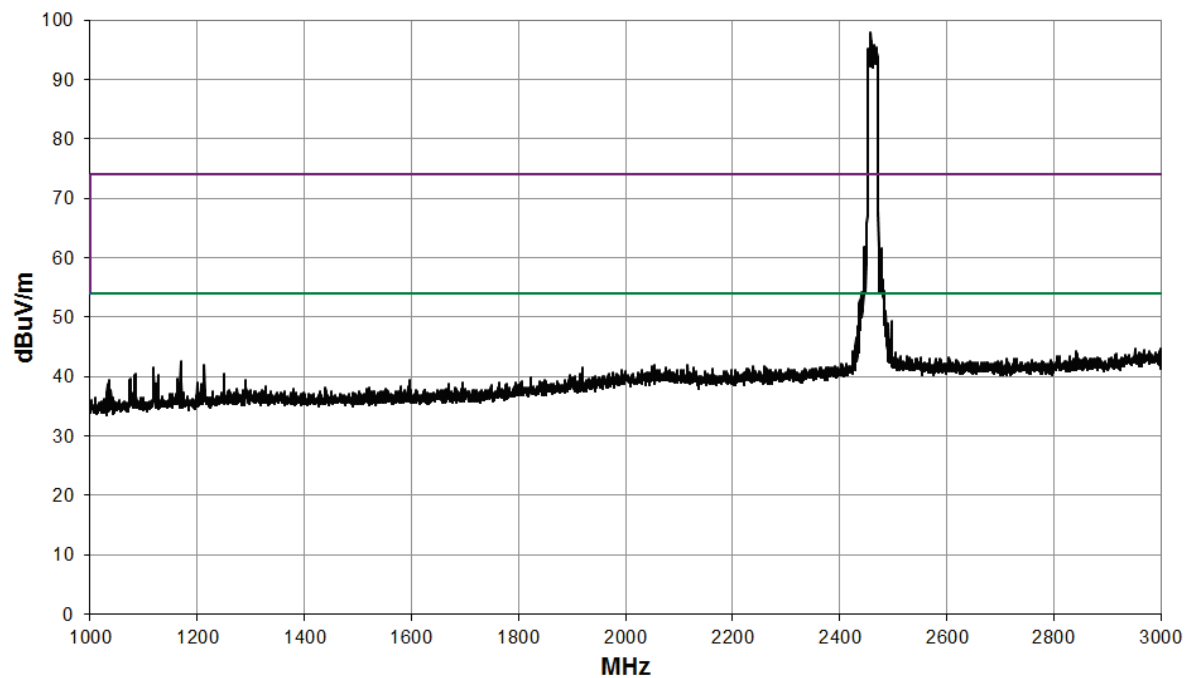


Mode: 802.11n20; Channel: CH11; Frequency: 2462 MHz; MCS index: MCS0; Power Setting: 13;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	4921.2	18.4	5.5	33.3	0.0	0.0	0.0	57.2	724.4	5000
AV	4925.5	-1.1	5.5	33.3	0.0	0.0	0.0	37.7	76.7	500

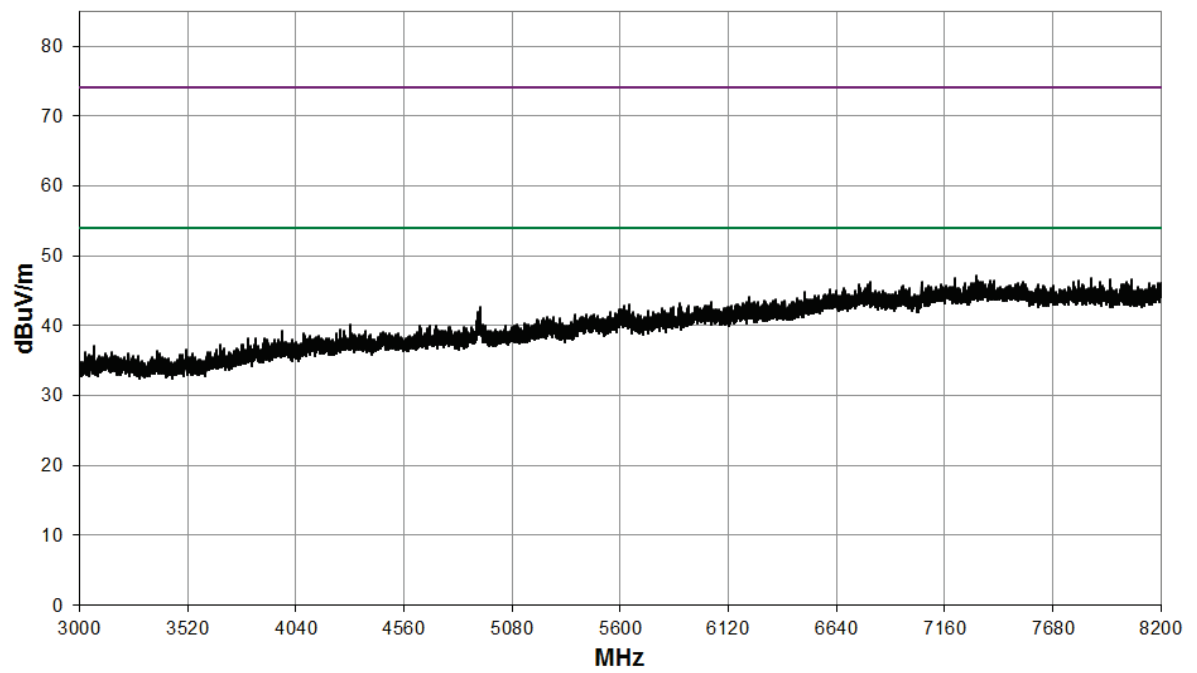
30 MHz to 1 GHz



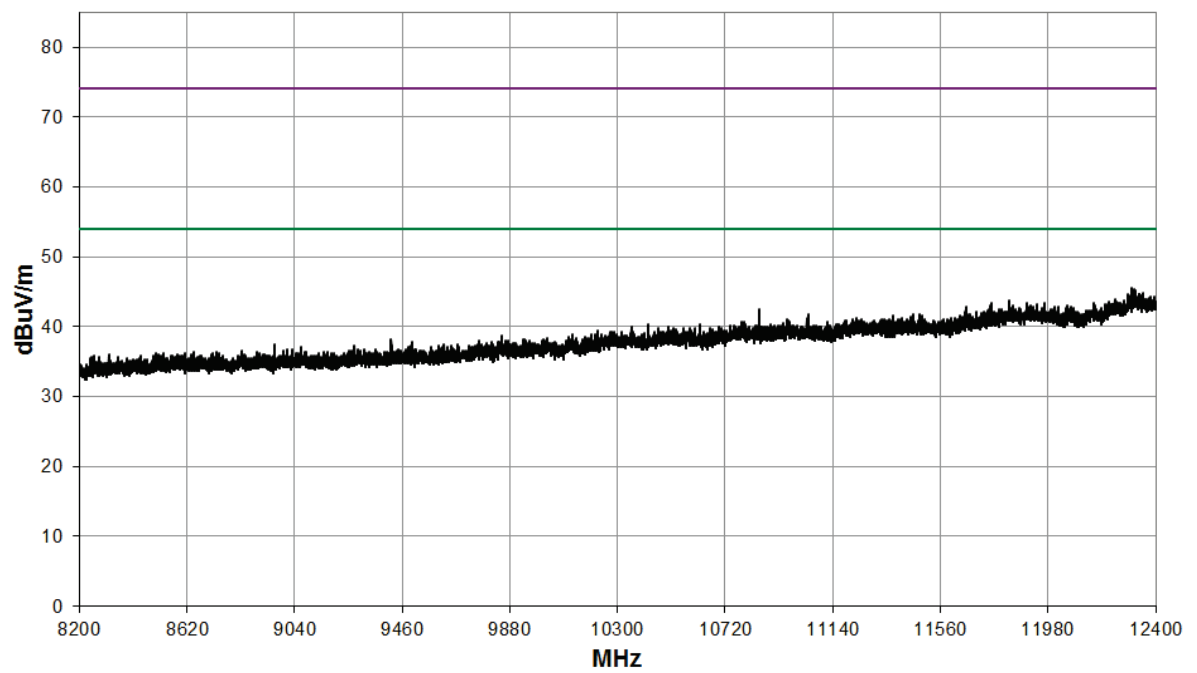
1 GHz to 3 GHz



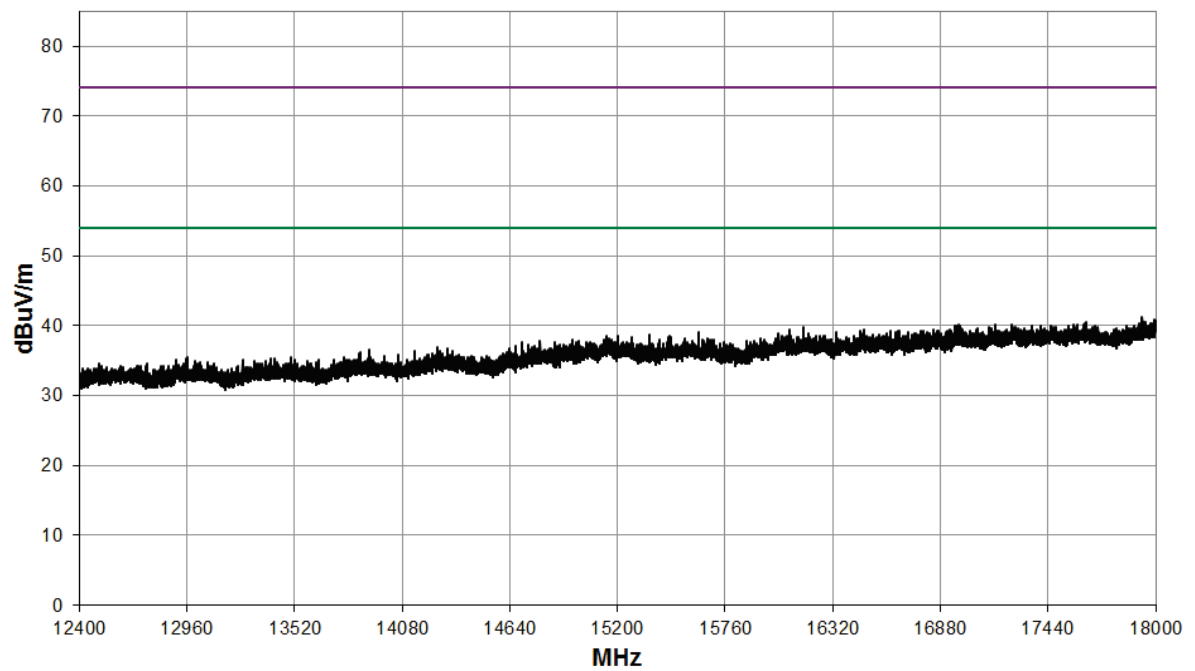
3 GHz to 8.2 GHz



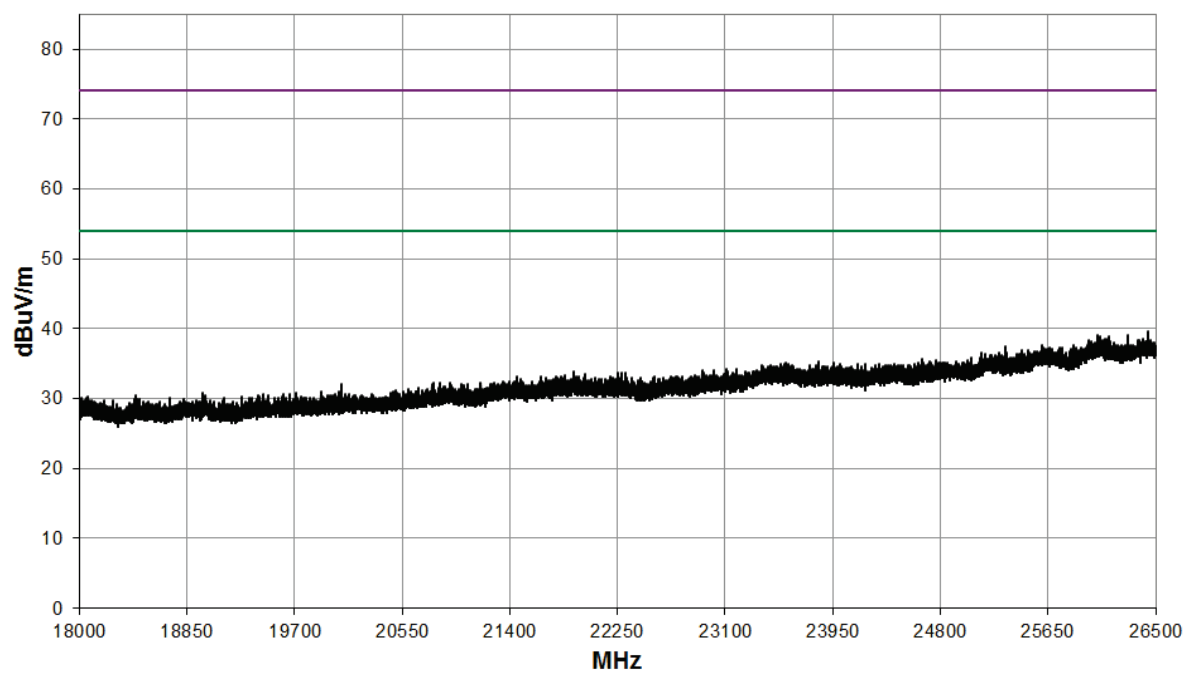
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

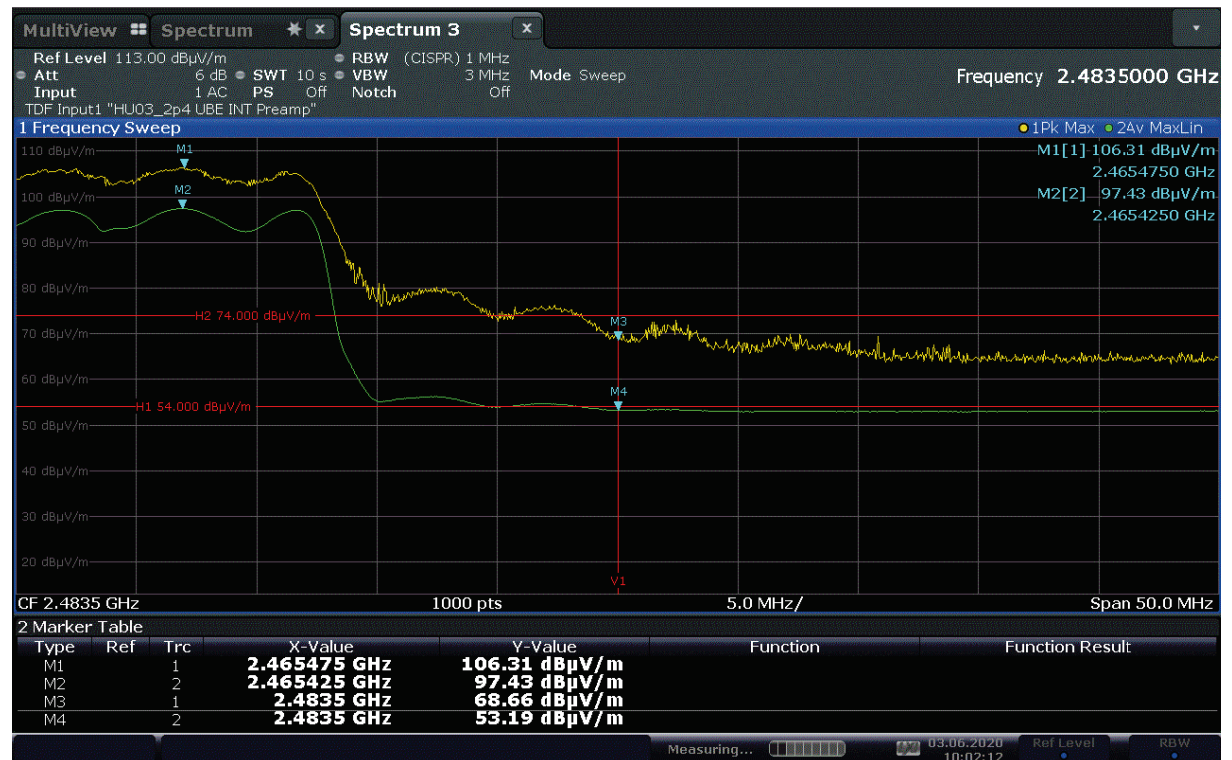


18 GHz to 26.5 GHz



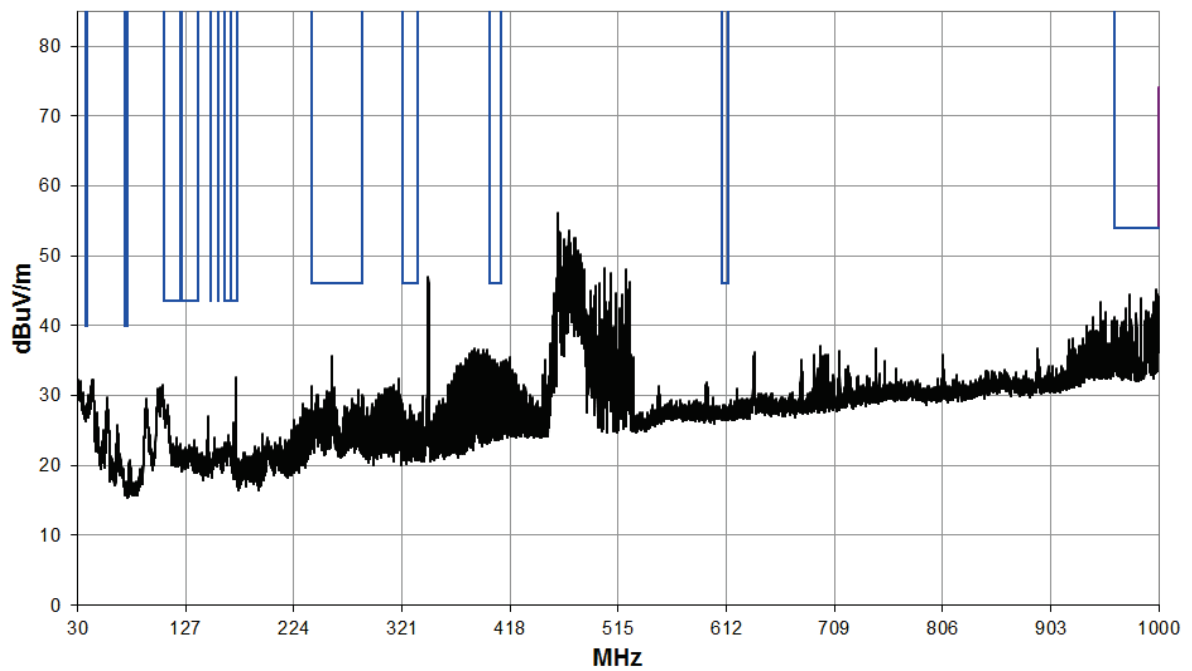
Band Edge

Element

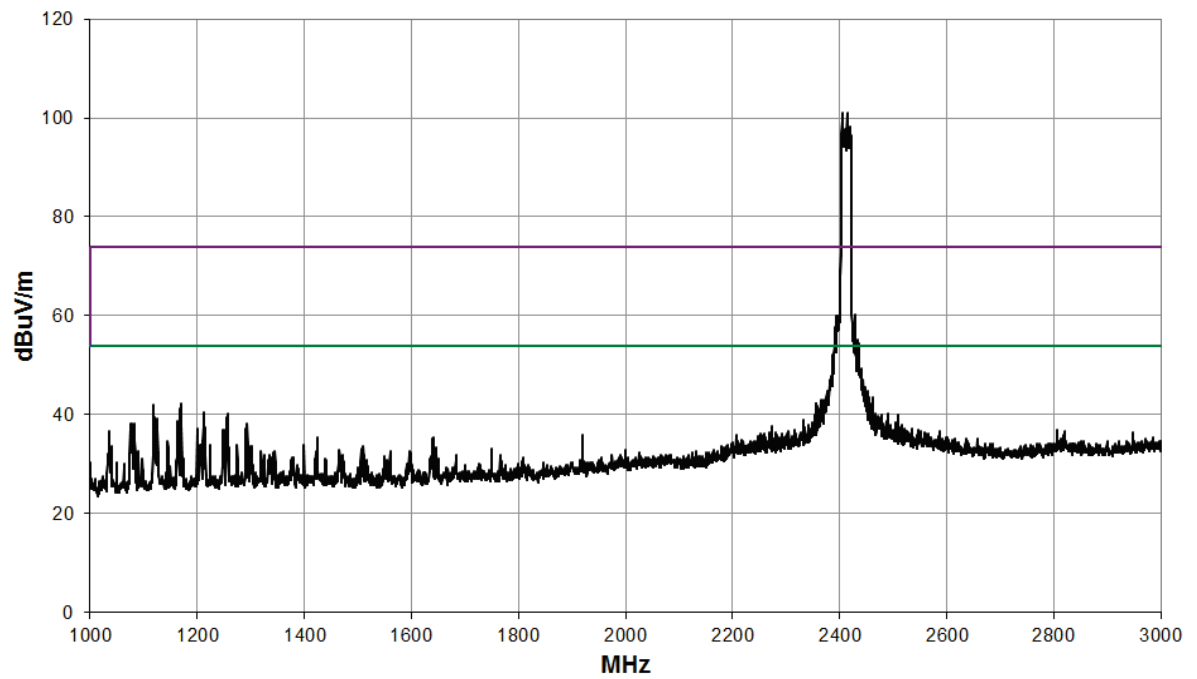


Mode: 802.11n20; Channel: CH1; Frequency: 2412 MHz; MCS index: MCS7; Power Setting: 15;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	4822.6	18.2	5.4	33.3	0.0	0.0	0.0	56.9	699.8	5000
AV	4822.7	-2.1	5.4	33.3	0.0	0.0	0.0	36.6	67.6	500
PK	12069.9	18.1	9.0	30.6	0.0	0.0	-3.5	54.2	512.8	5000
AV	12060.9	2.0	9.0	30.4	0.0	0.0	-3.5	37.9	78.5	500

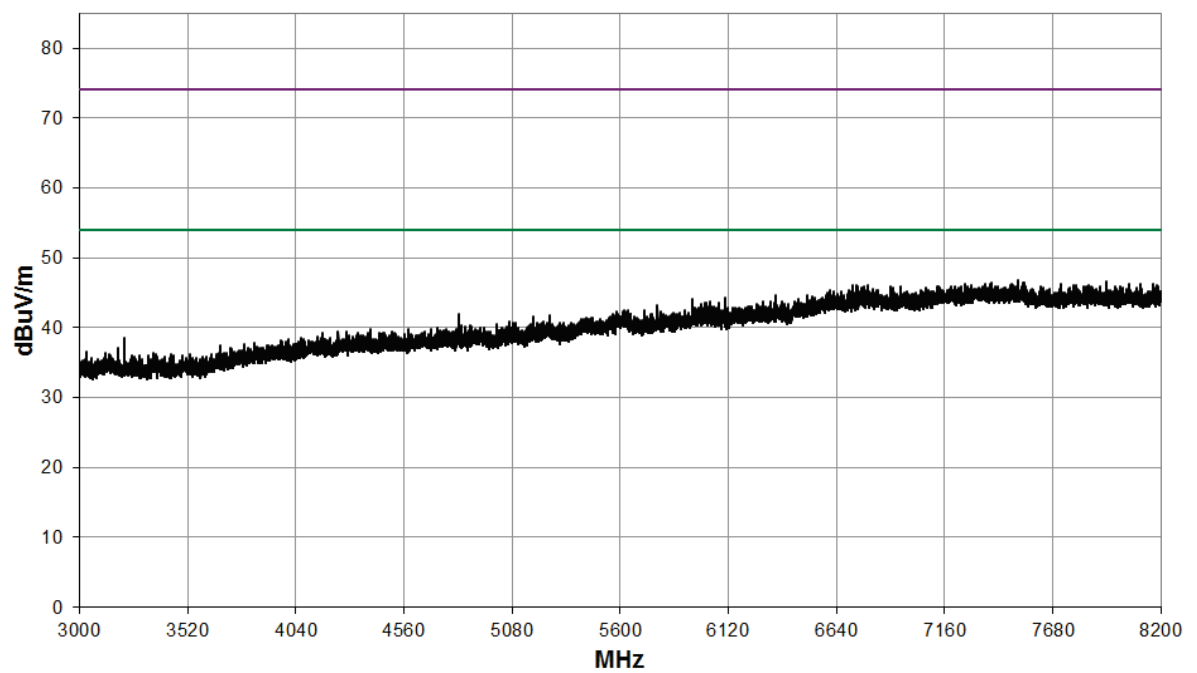
30 MHz to 1 GHz



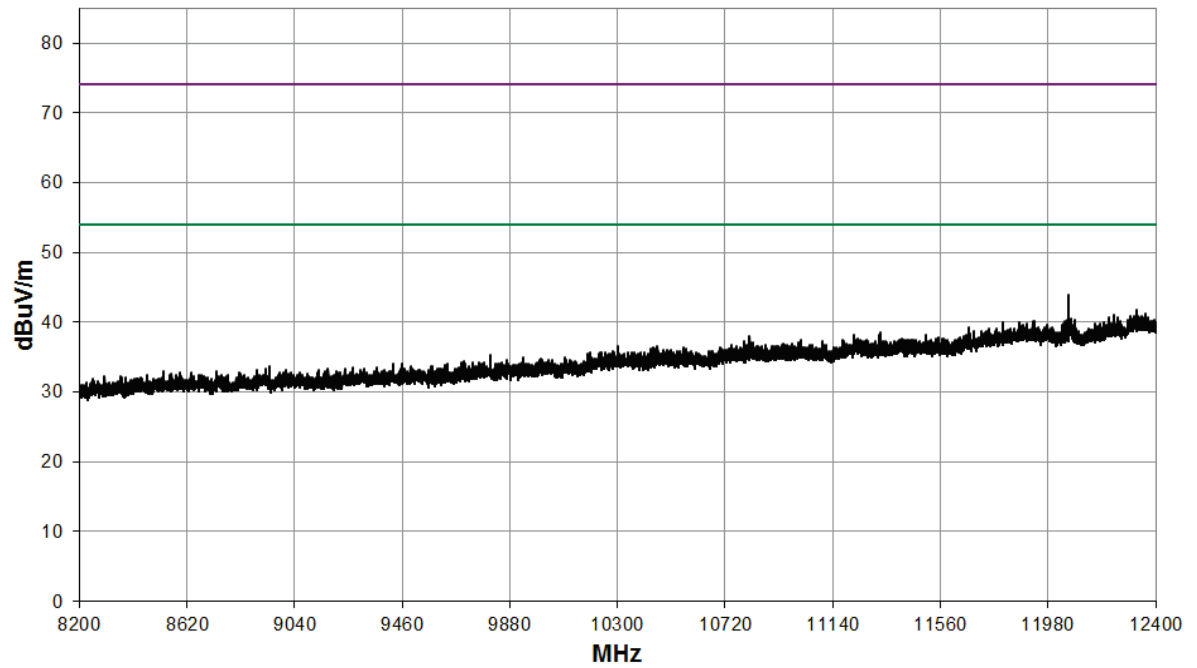
1 GHz to 3 GHz



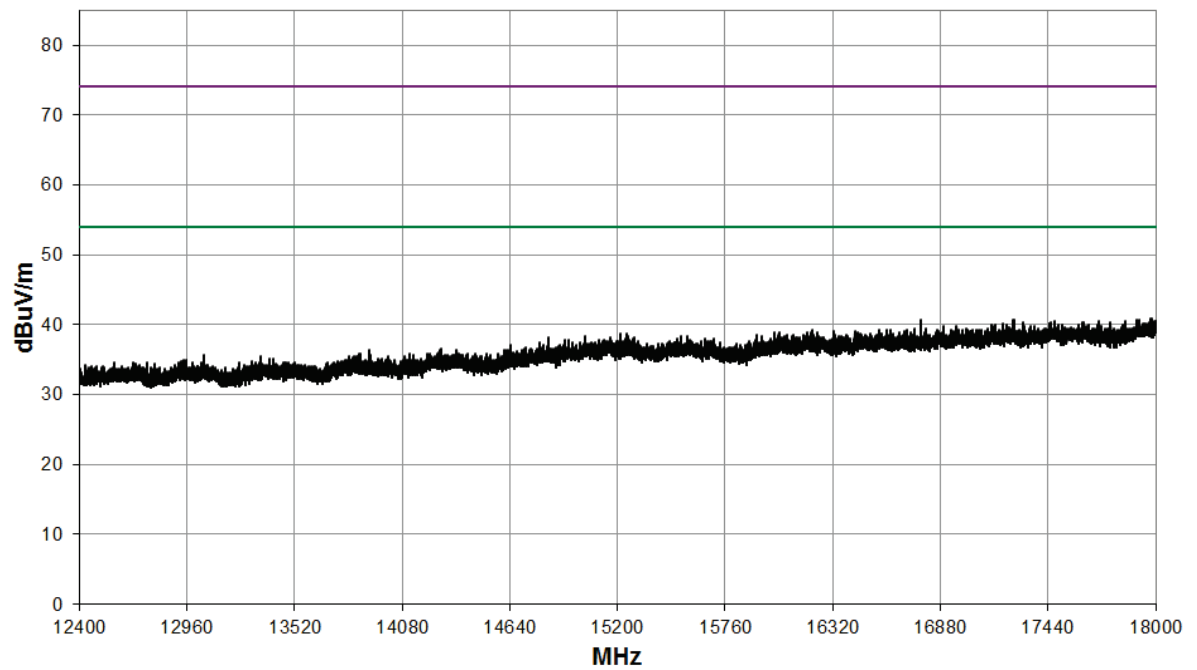
3 GHz to 8.2 GHz



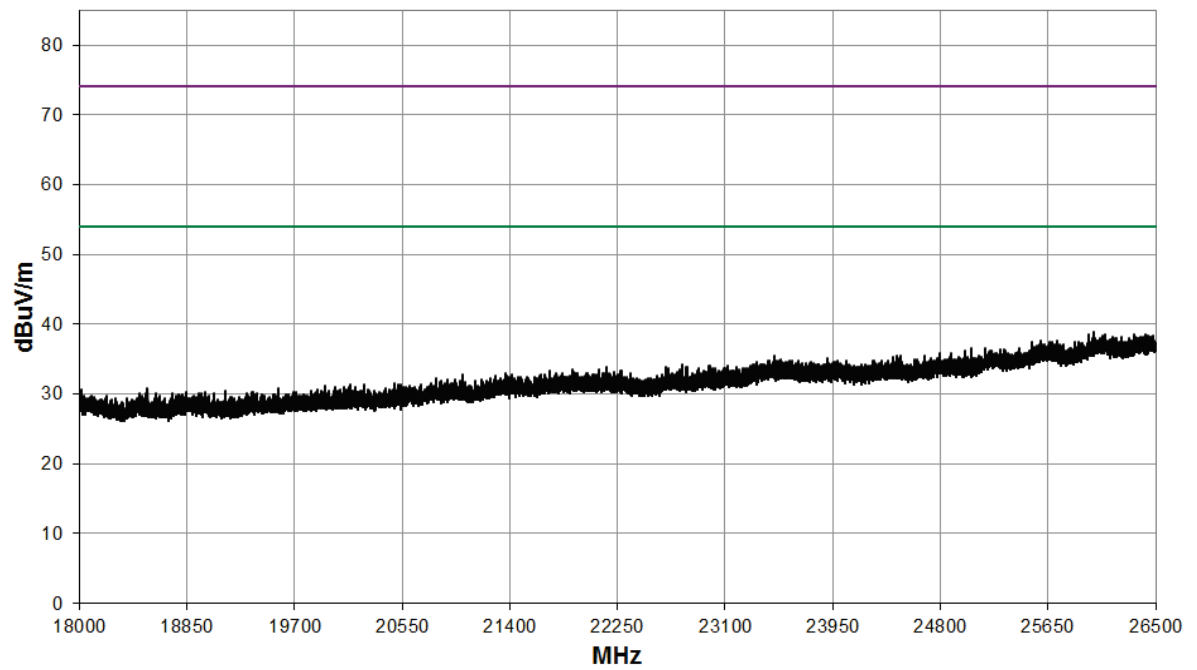
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



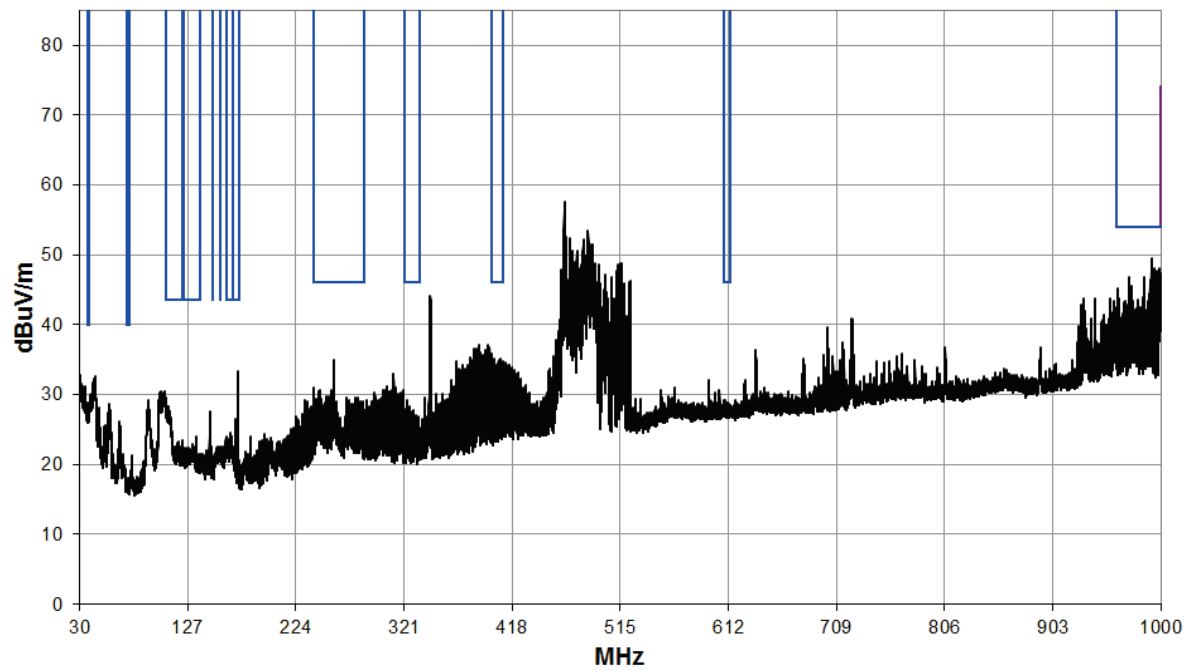
18 GHz to 26.5 GHz



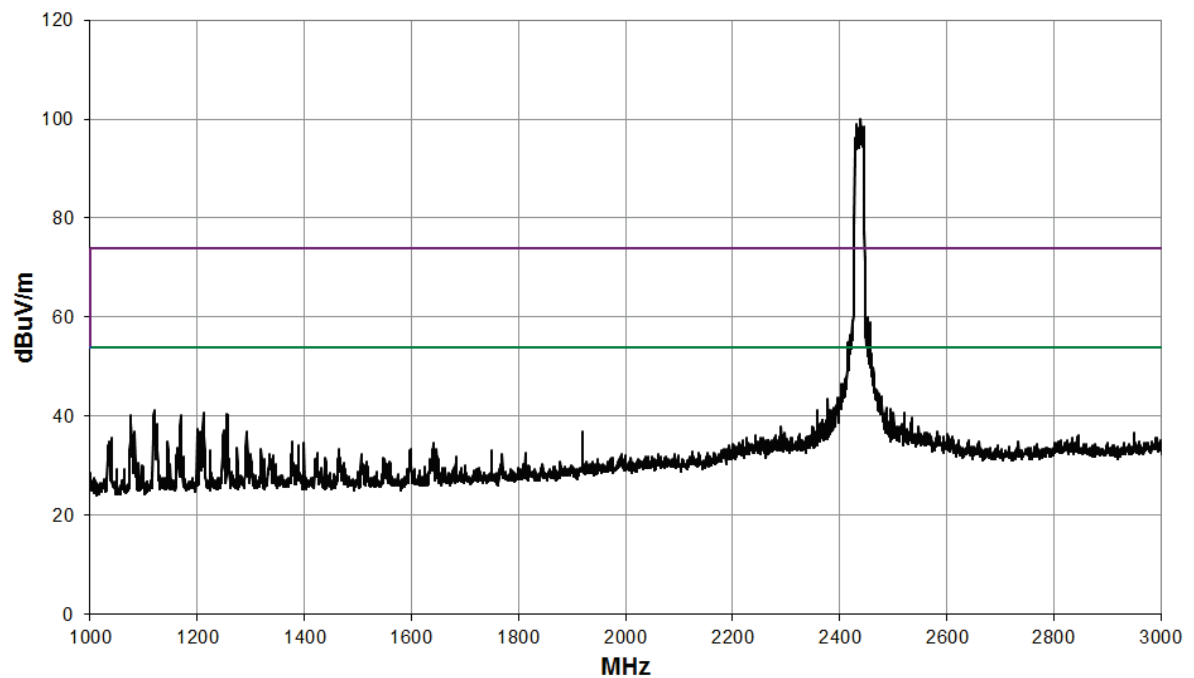
Mode: 802.11n20; Channel: CH6; Frequency: 2437 MHz; MCS index: MCS7; Power Setting: 15;

Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	12165.7	26.4	9.1	30.6	0.0	0.0	-3.5	62.6	1349.0	5000
AV	12180.4	8.4	9.1	30.3	0.0	0.0	-3.5	44.3	164.1	500

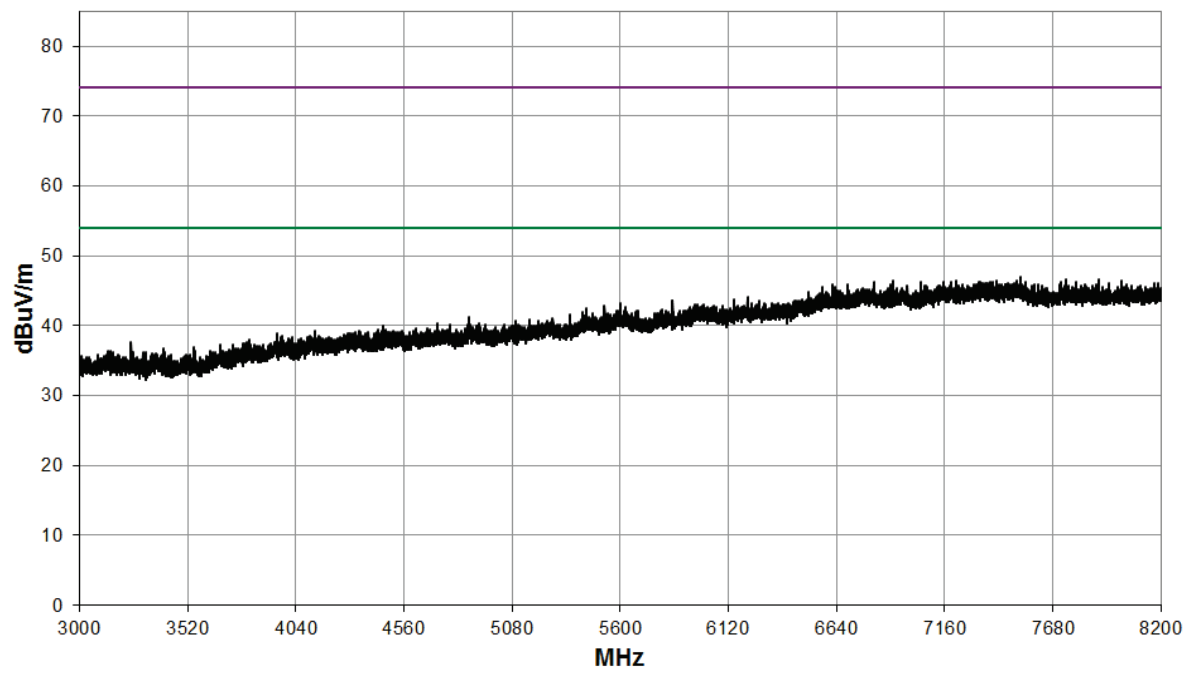
30 MHz to 1 GHz



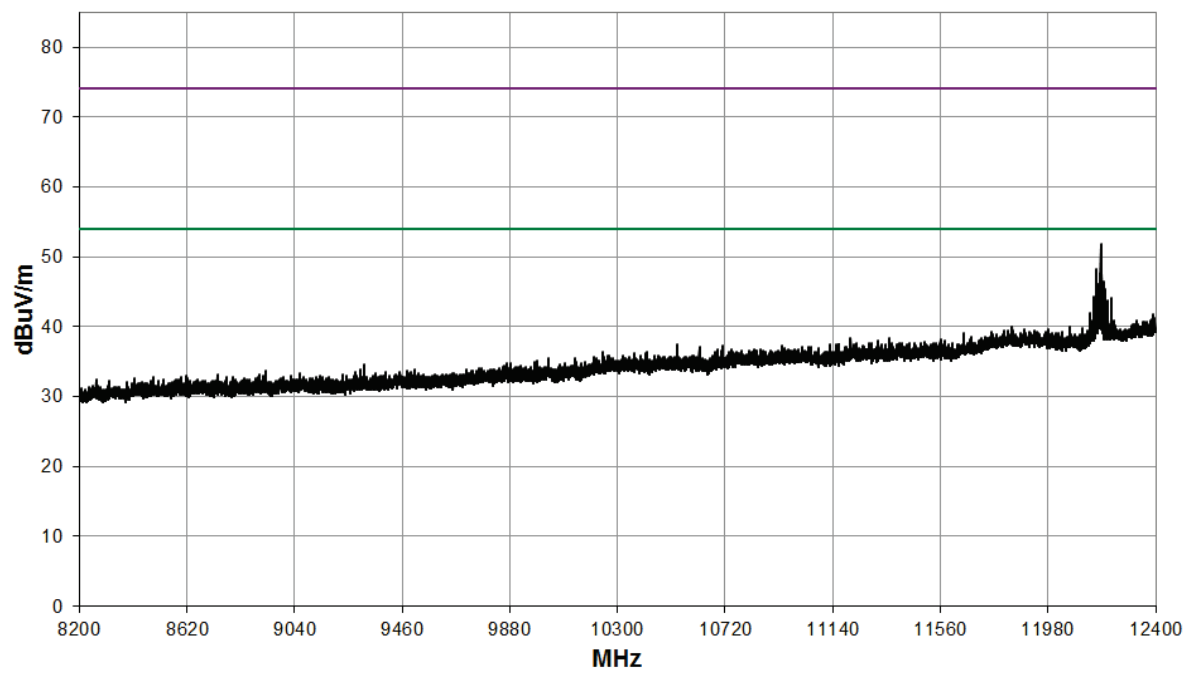
1 GHz to 3 GHz



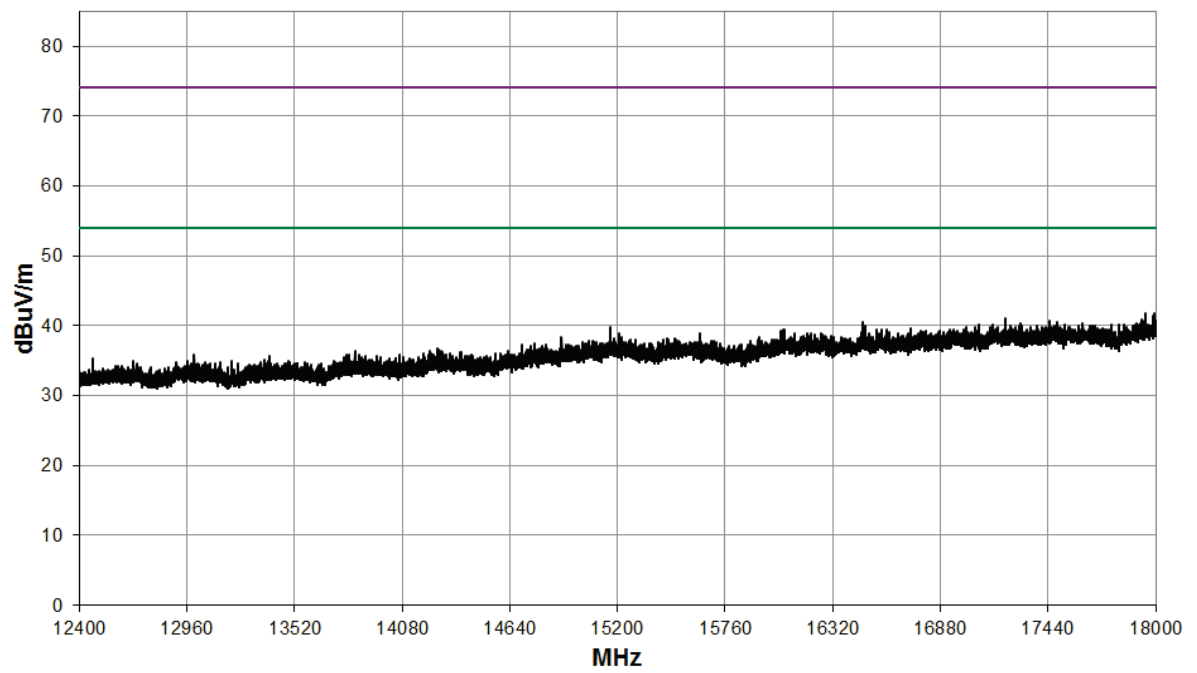
3 GHz to 8.2 GHz



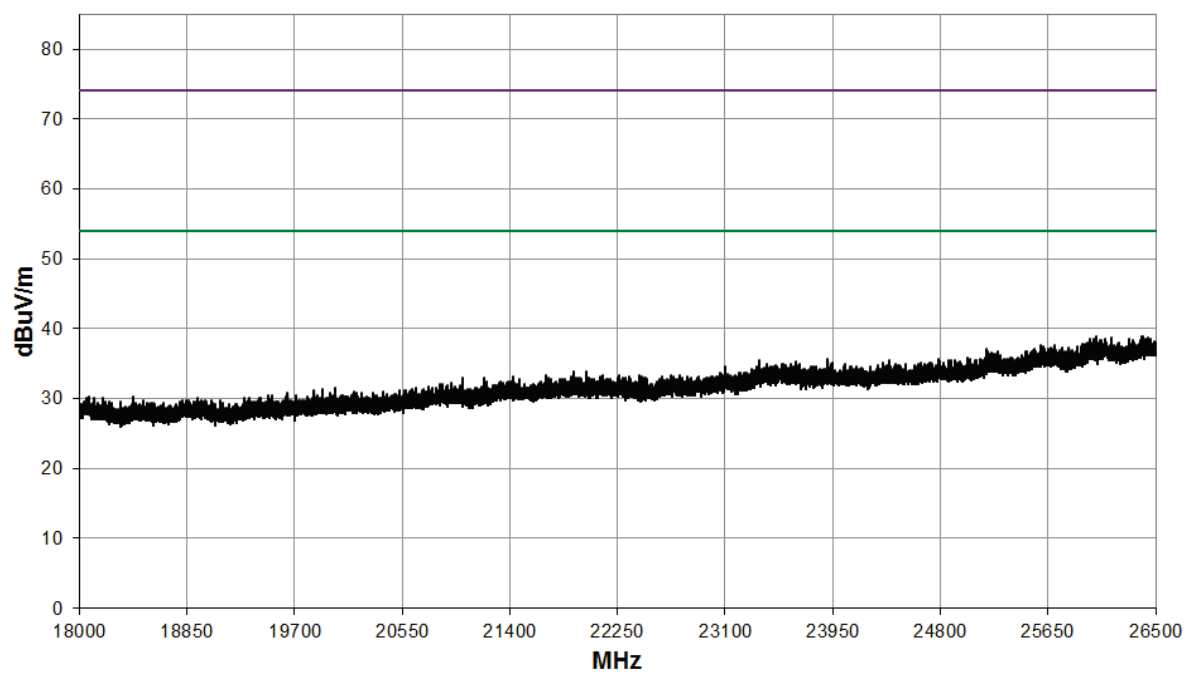
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

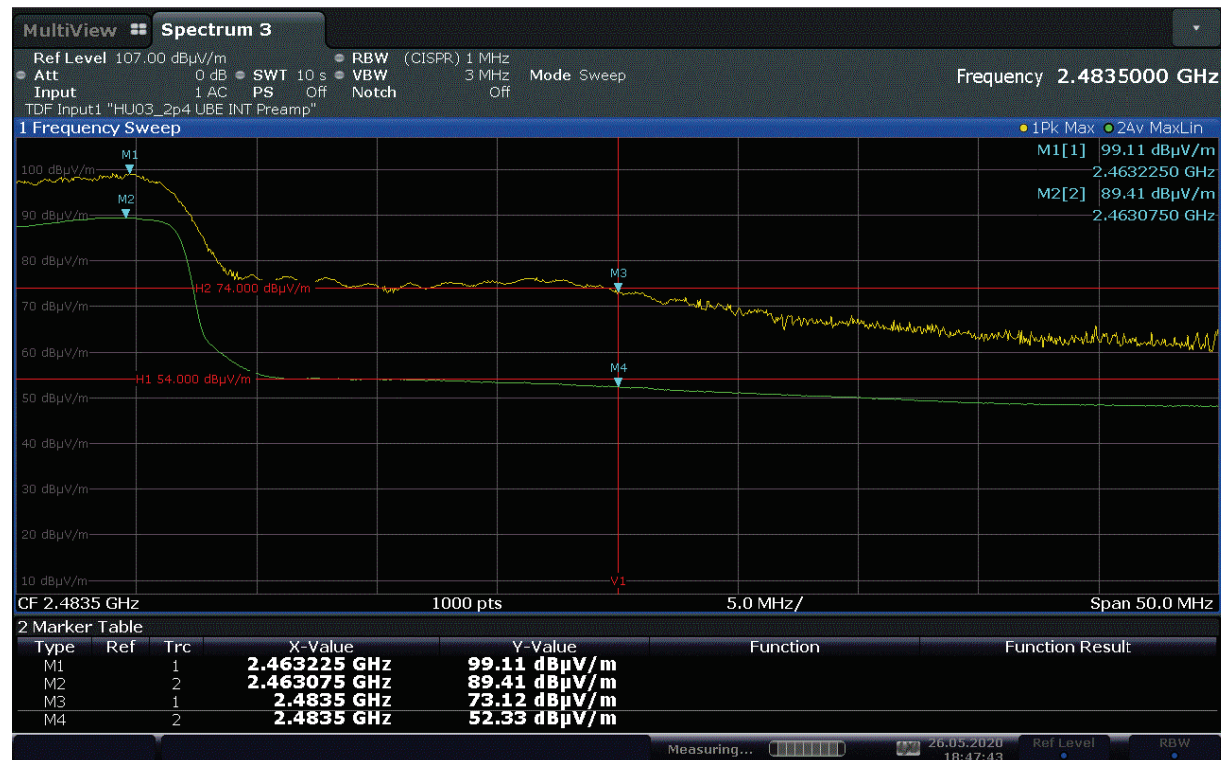


18 GHz to 26.5 GHz



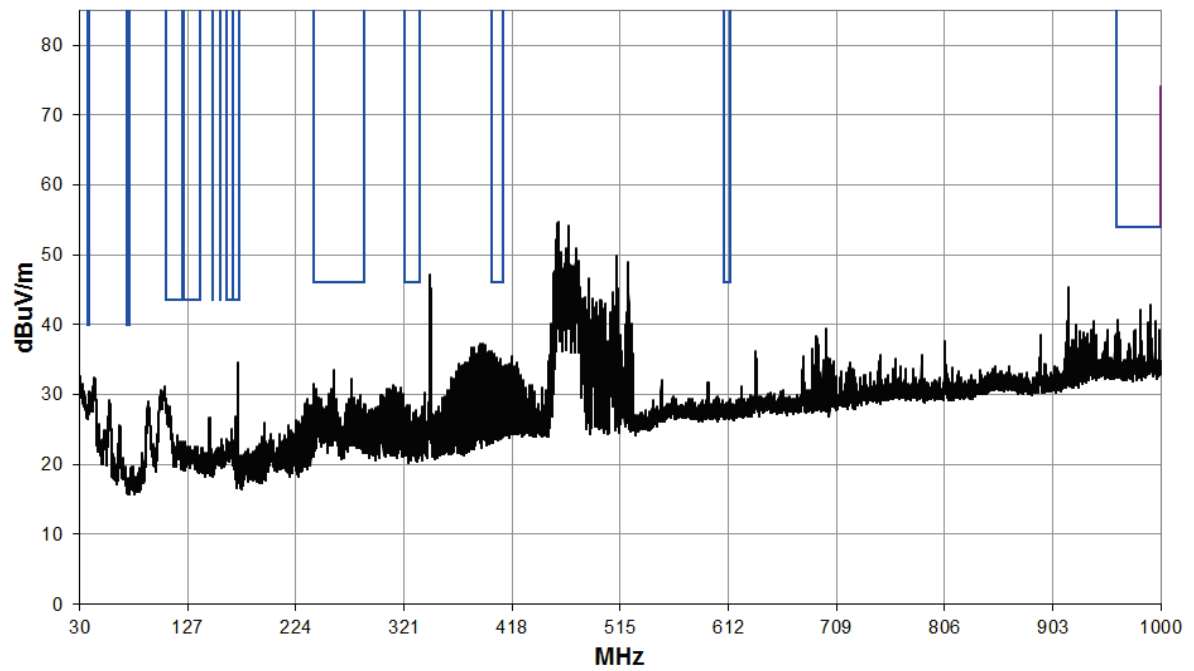
Band Edge

Element

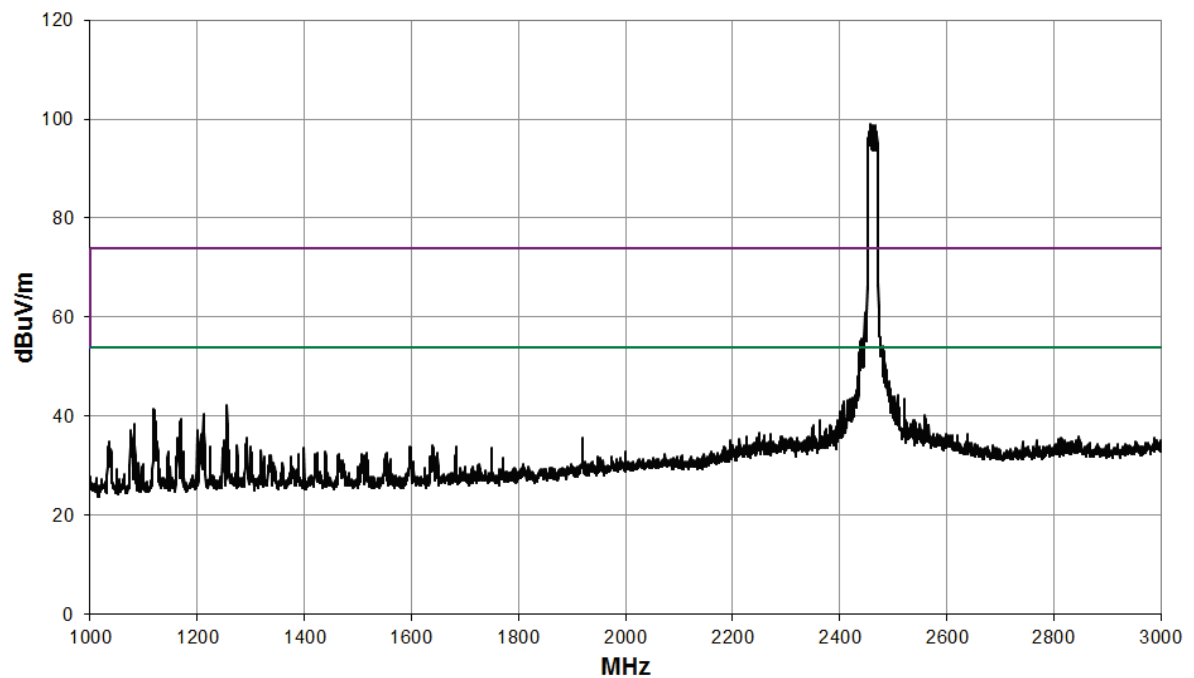


Mode: 802.11n20; Channel: CH11; Frequency: 2462 MHz; MCS index: MCS7; Power Setting: 13;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4922.8	-1.7	5.5	33.3	0.0	0.0	0.0	37.1	71.6	500
PK	4923.4	14.1	5.5	33.3	0.0	0.0	0.0	52.9	441.6	5000

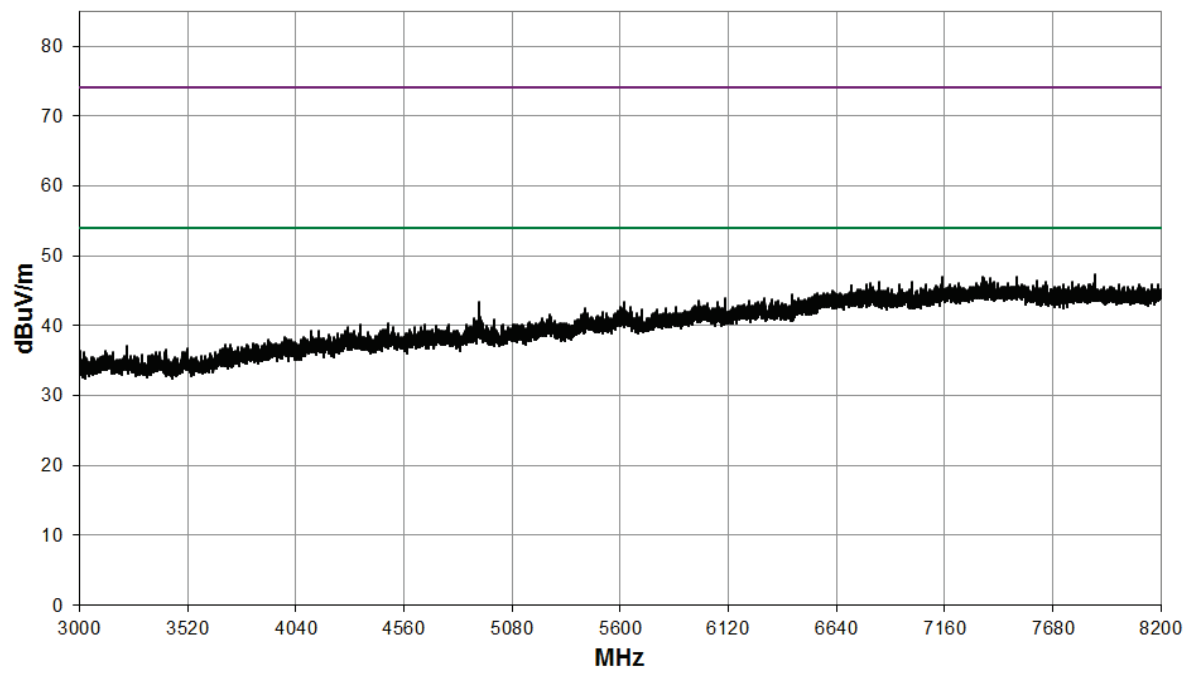
30 MHz to 1 GHz



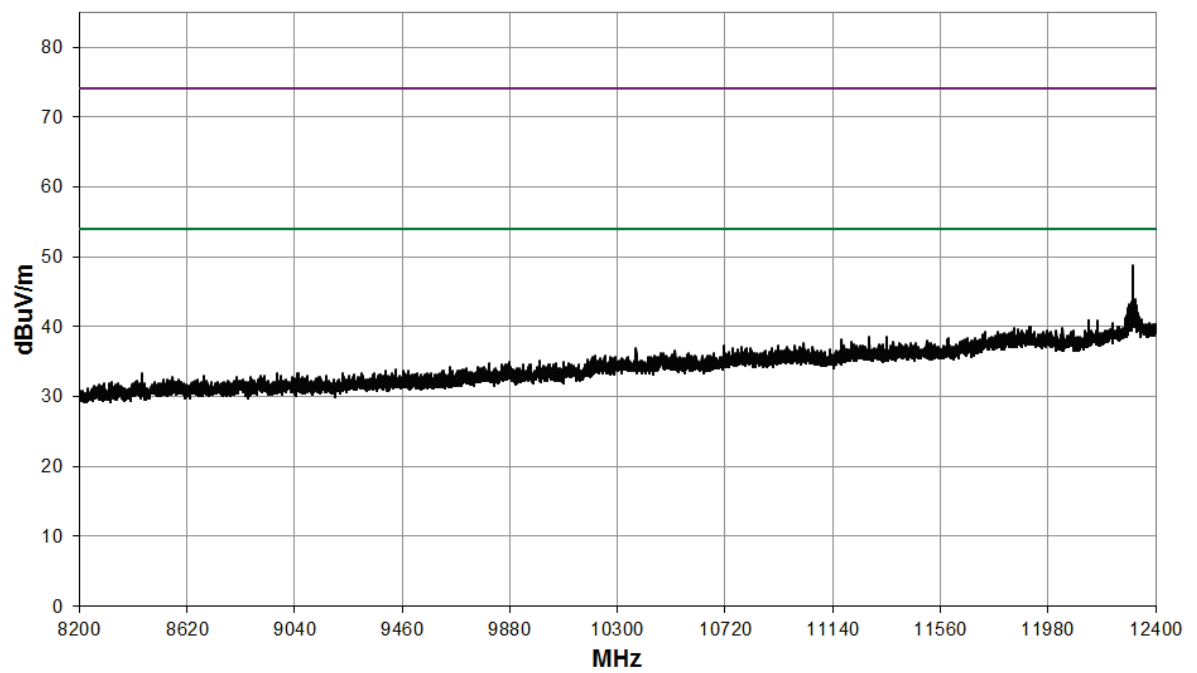
1 GHz to 3 GHz



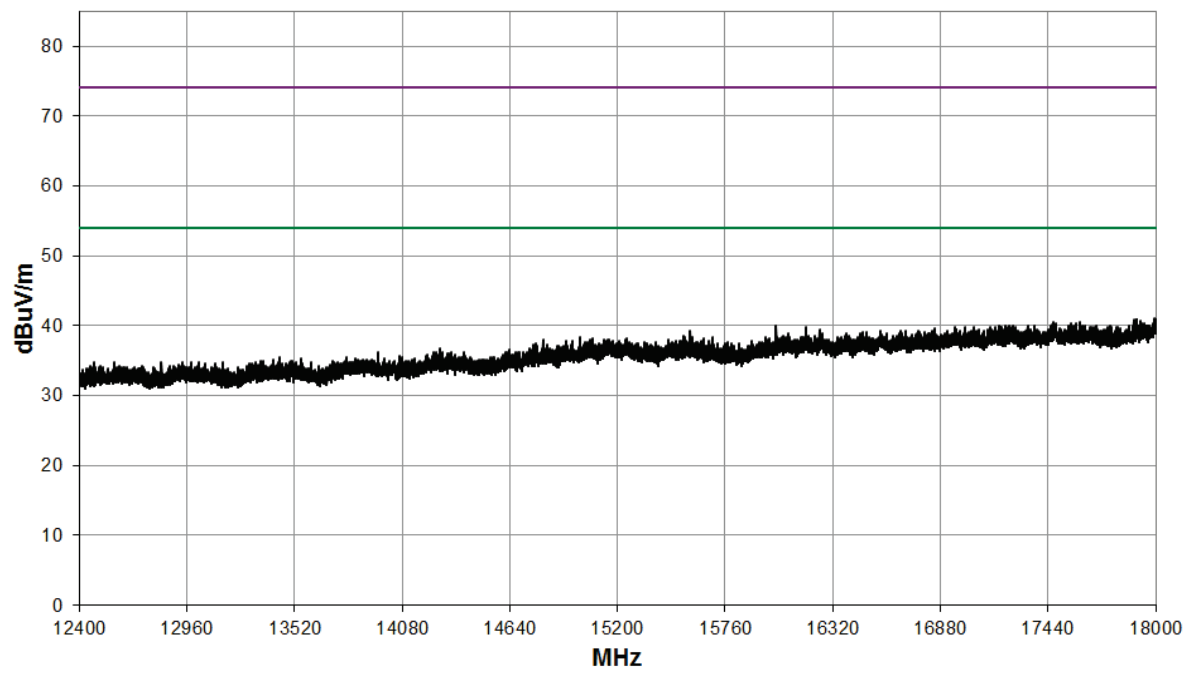
3 GHz to 8.2 GHz



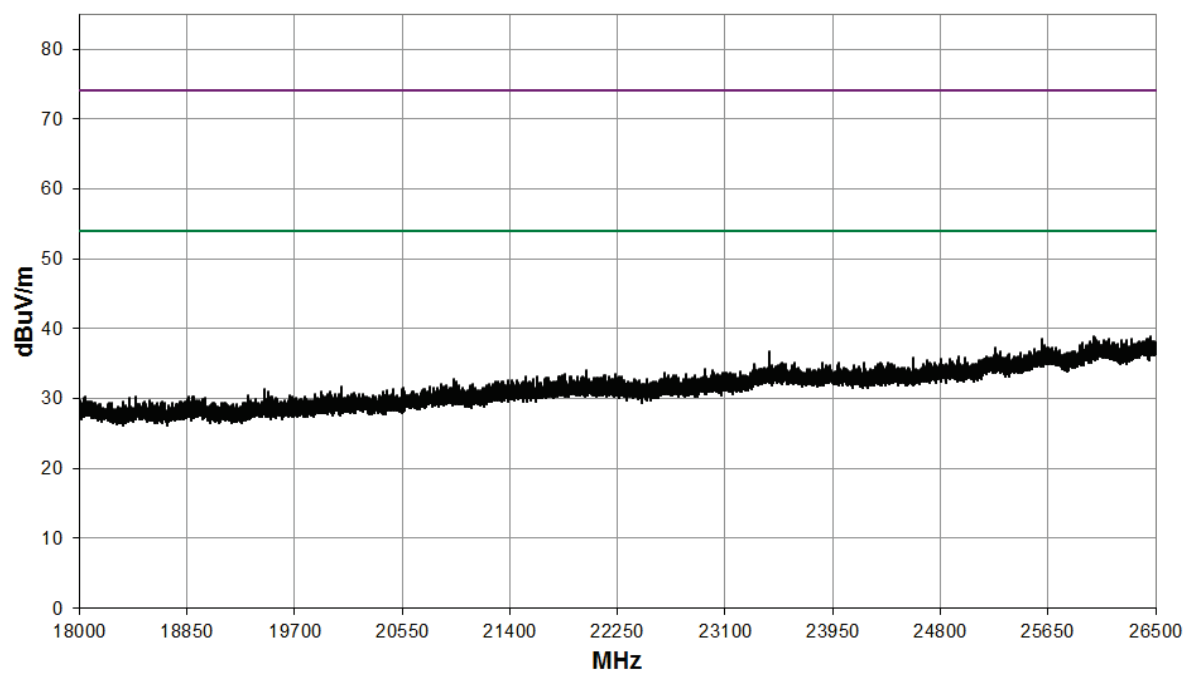
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

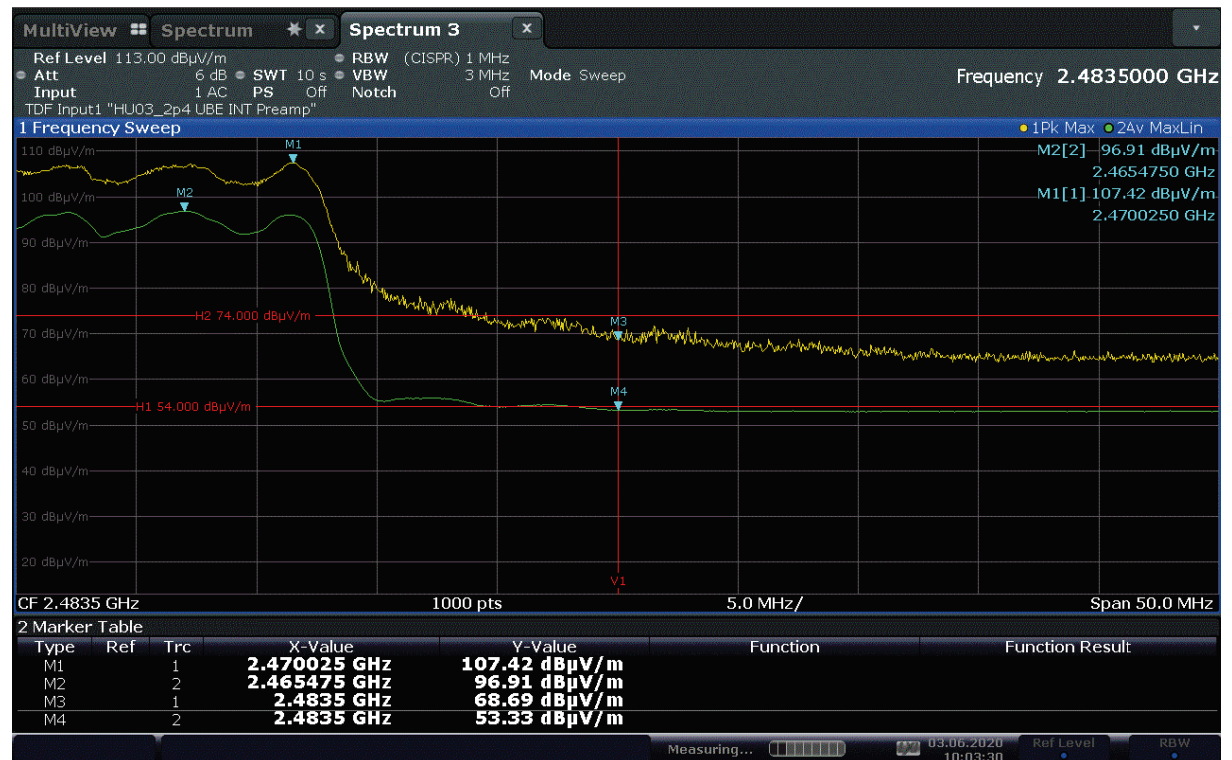


18 GHz to 26.5 GHz



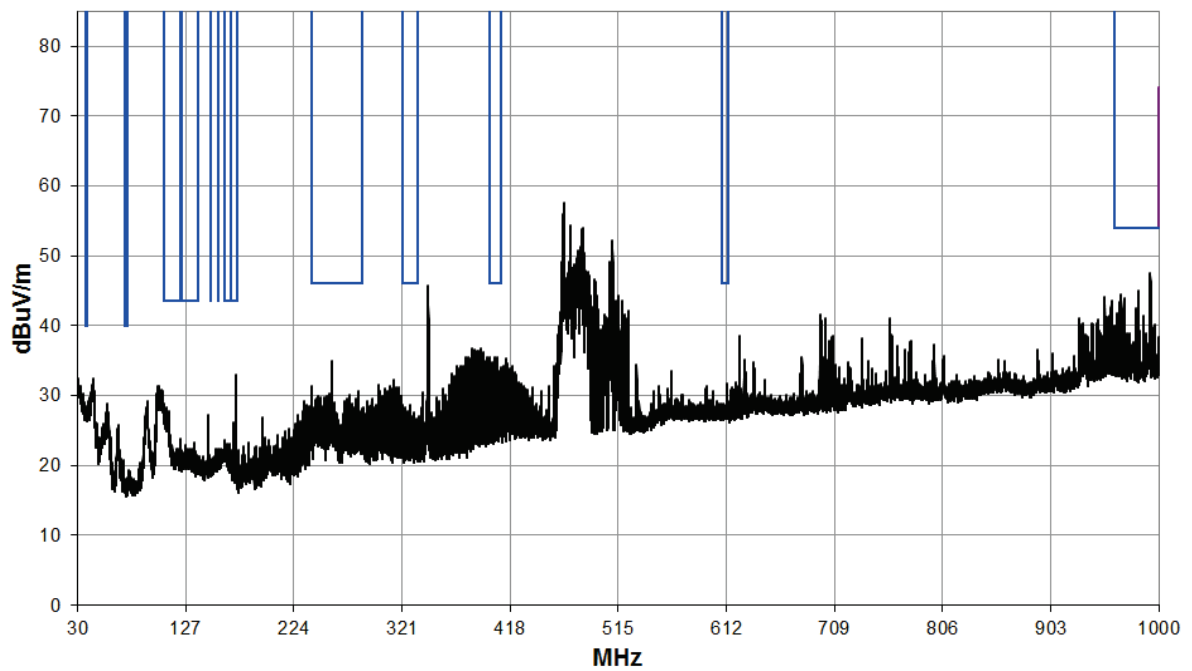
Band Edge

Element

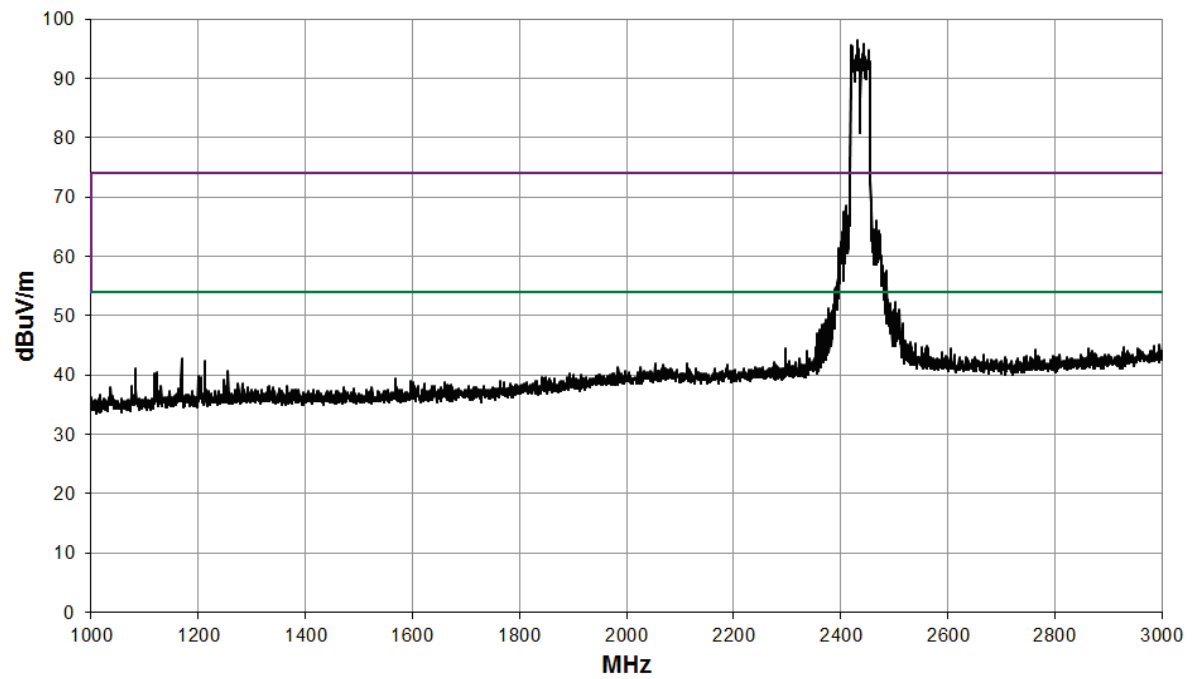


Mode: 802.11n40; Channel: CH3; Frequency: 2422 MHz; MCS index: MCS0; Power Setting: 14; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4837.2	-3.1	5.4	33.3	0.0	0.0	0.0	35.6	60.3	500
PK	4851.1	16.5	5.4	33.3	0.0	0.0	0.0	55.2	575.4	5000
AV	12120.7	0.3	9.0	30.2	0.0	0.0	0.0	39.5	94.4	500
PK	12120.9	16.0	9.0	30.2	0.0	0.0	0.0	55.2	575.4	5000

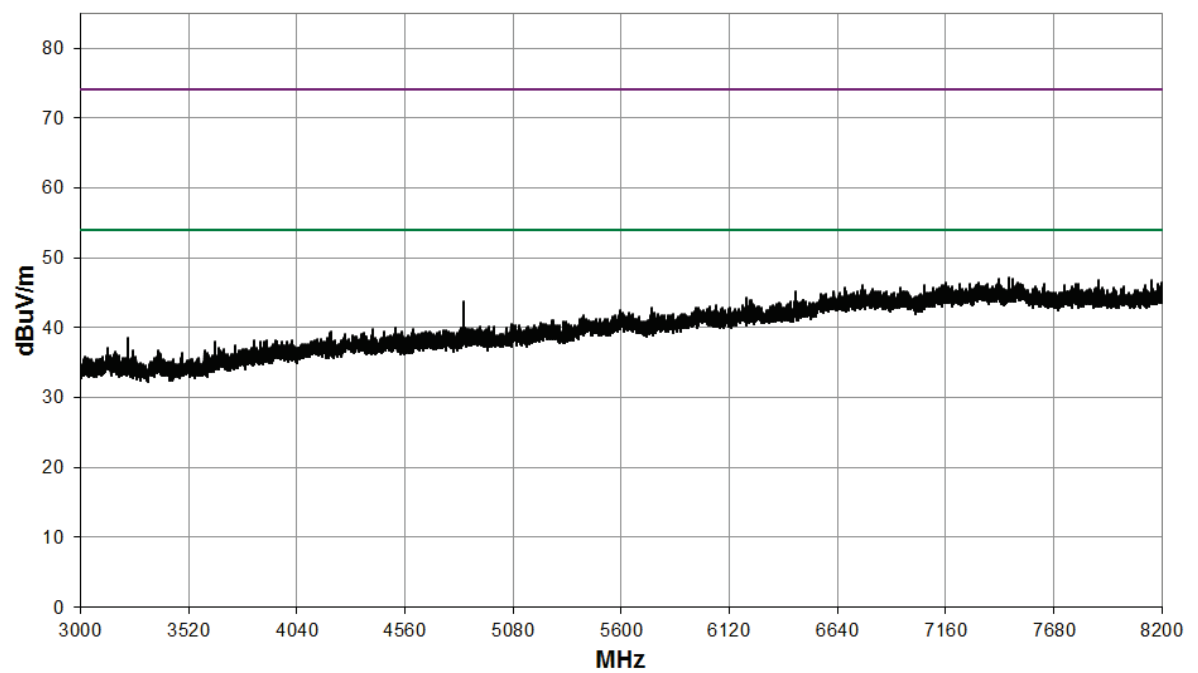
30 MHz to 1 GHz



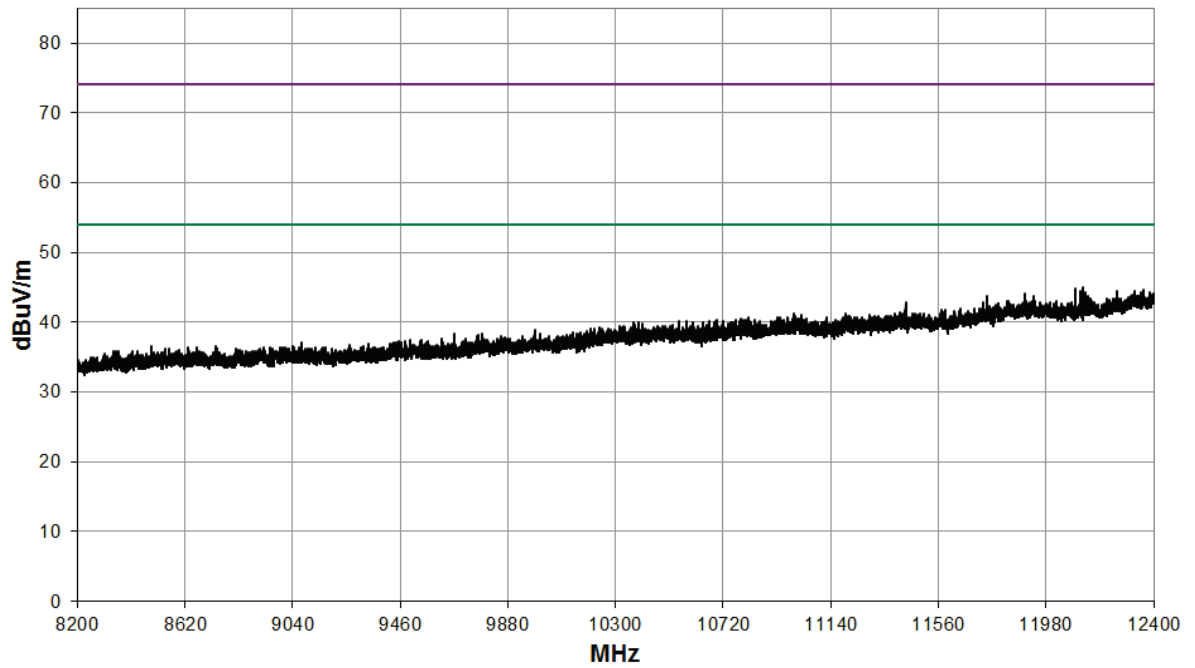
1 GHz to 3 GHz



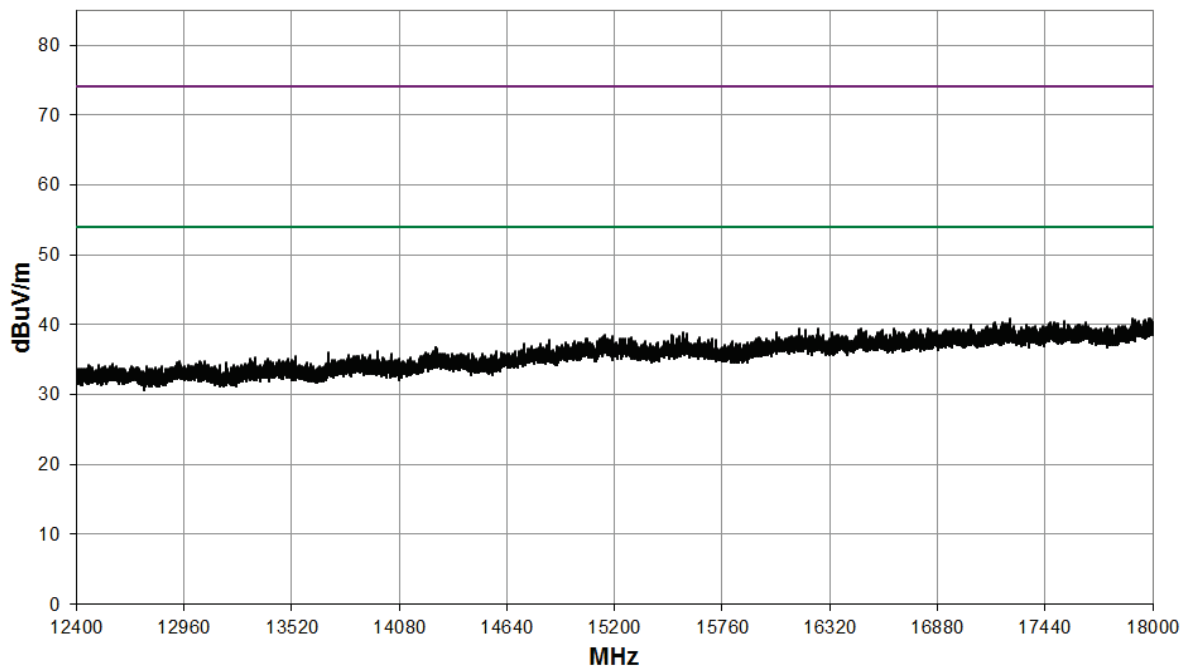
3 GHz to 8.2 GHz



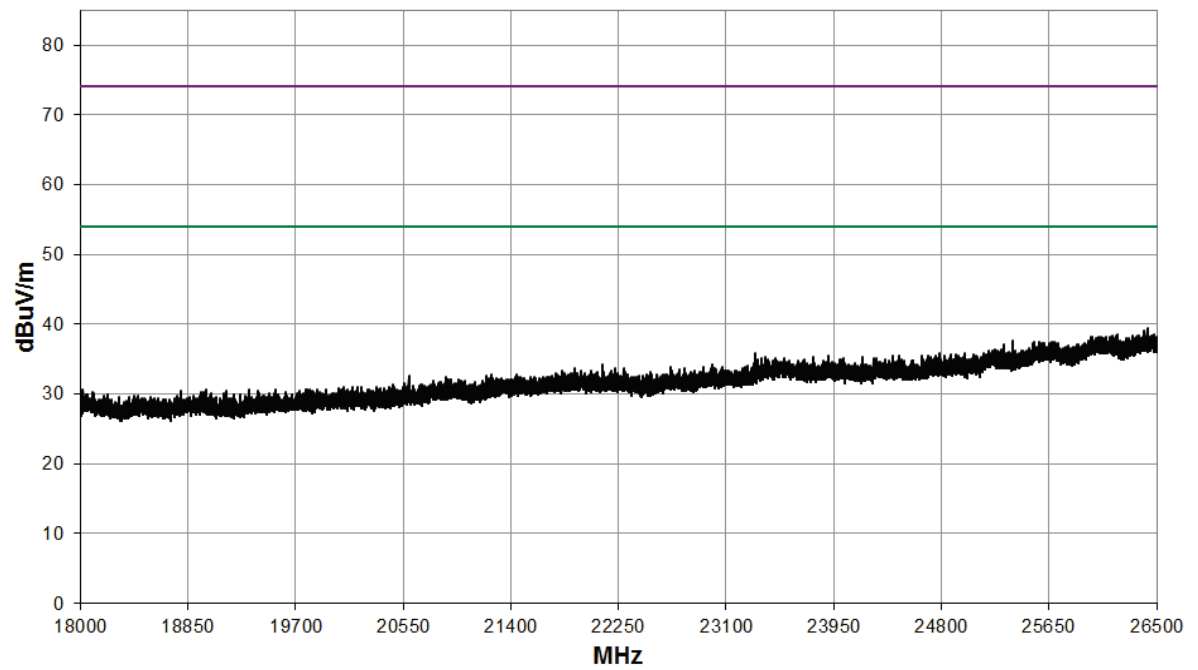
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

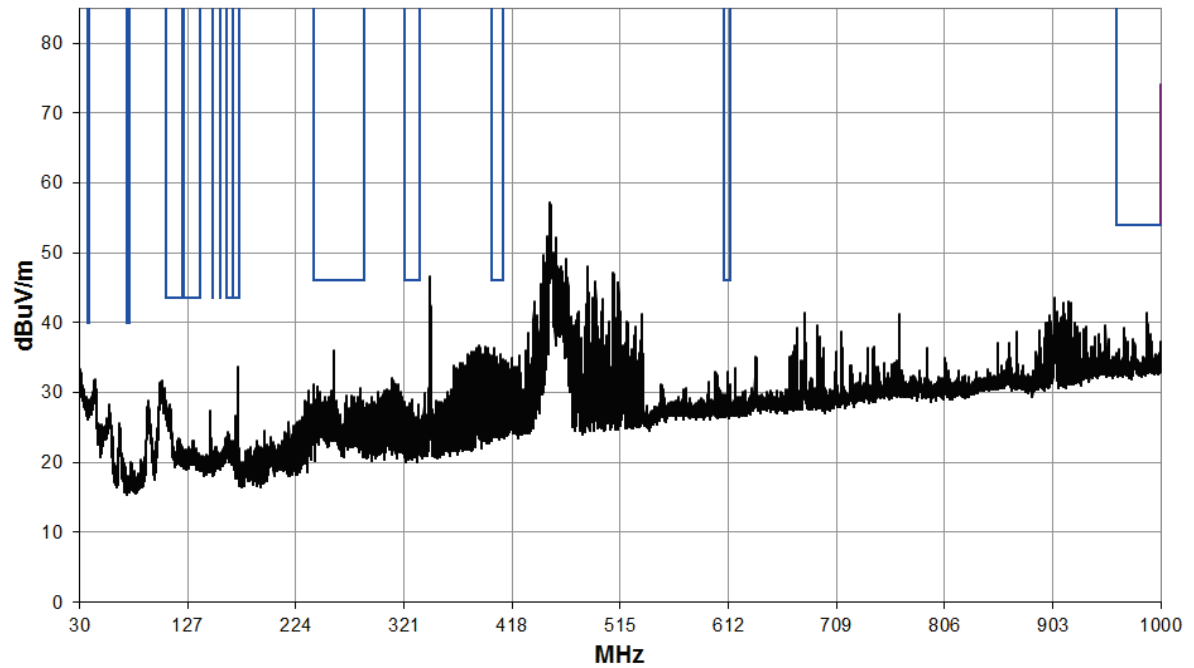


18 GHz to 26.5 GHz

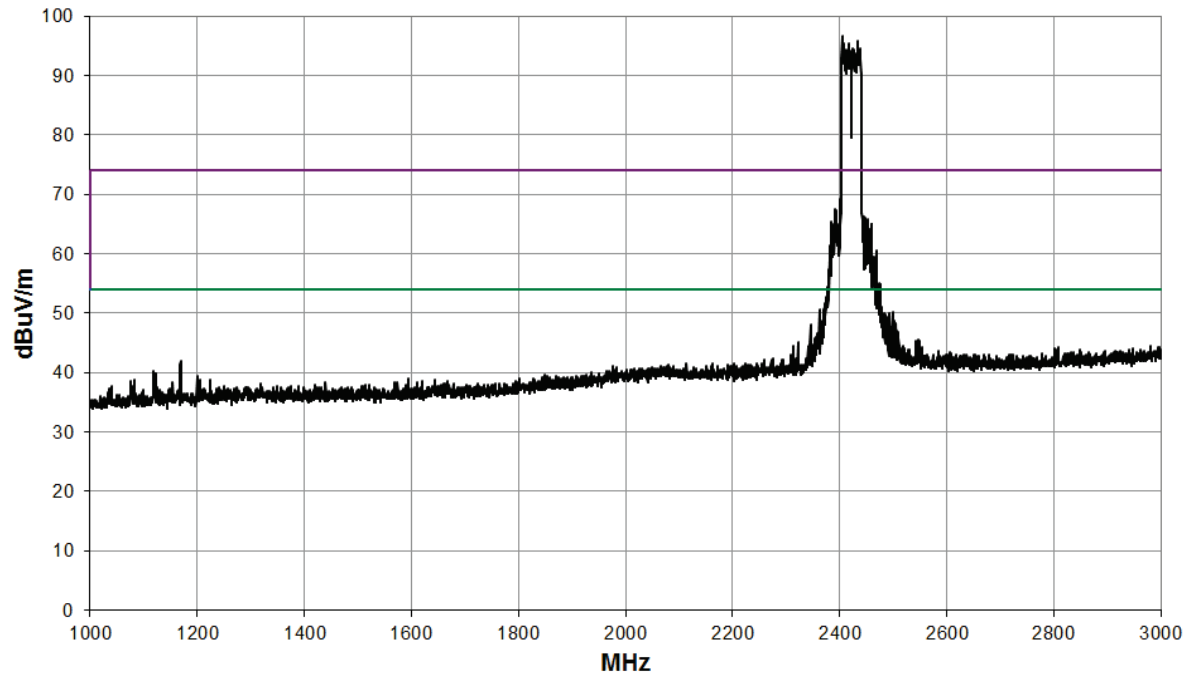


Mode: 802.11n40; Channel: CH6; Frequency: 2437 MHz; MCS index: MCS0; Power Setting: 14; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500

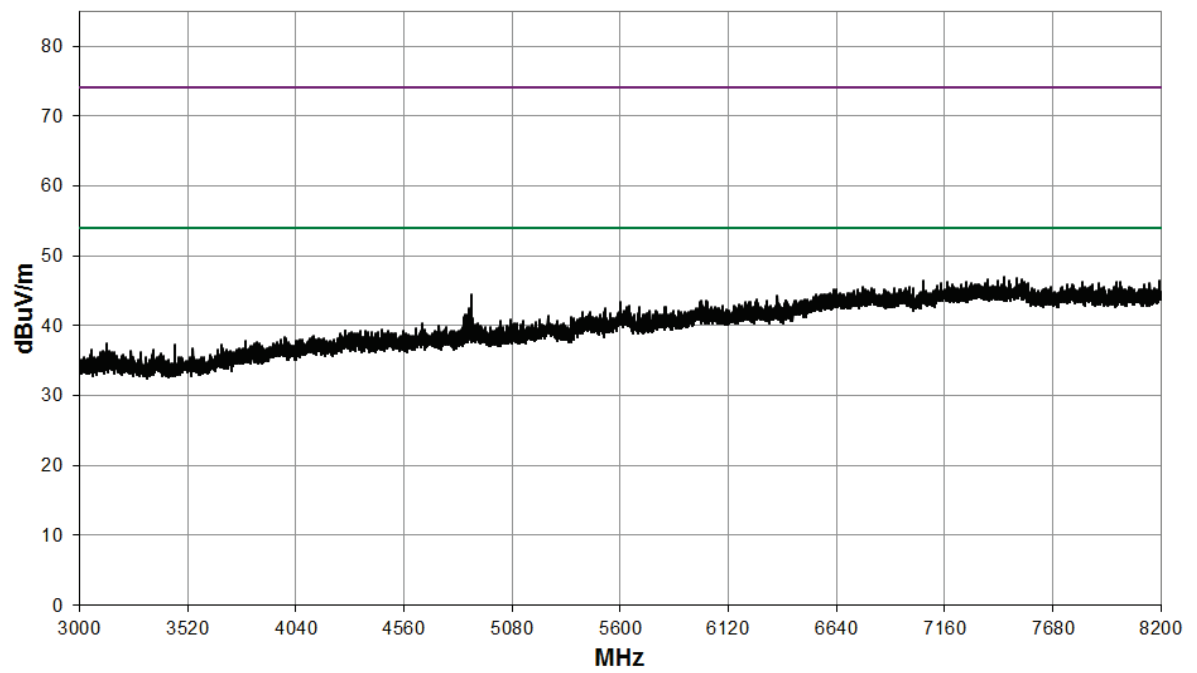
30 MHz to 1 GHz



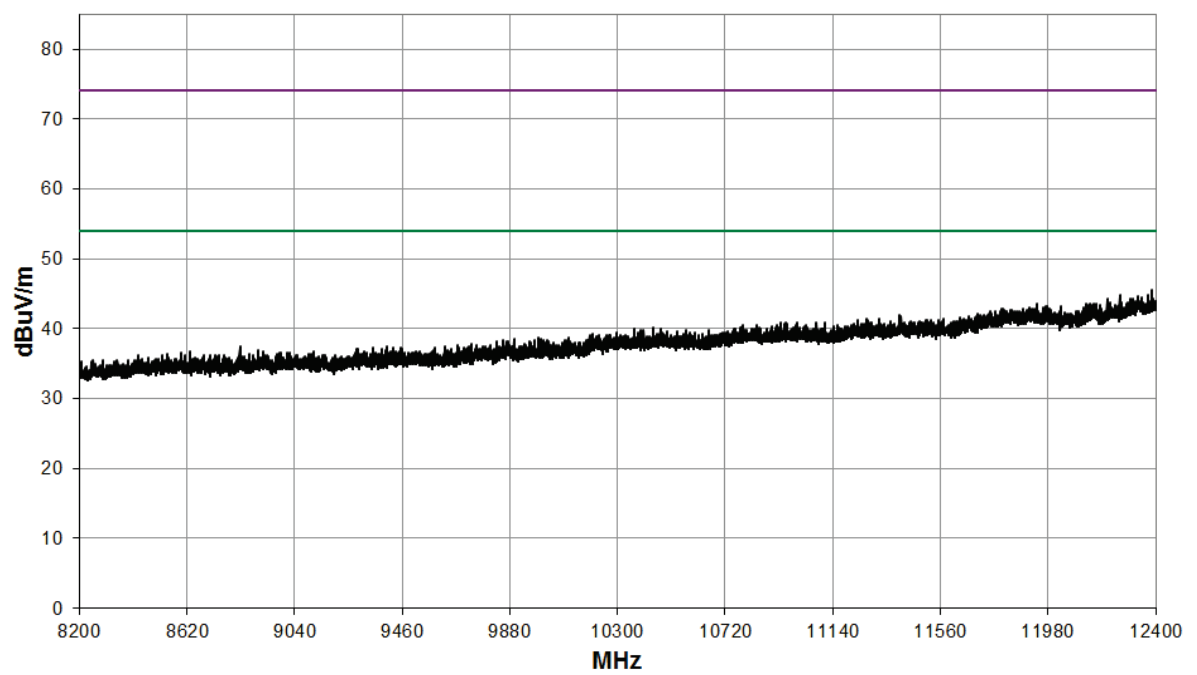
1 GHz to 3 GHz



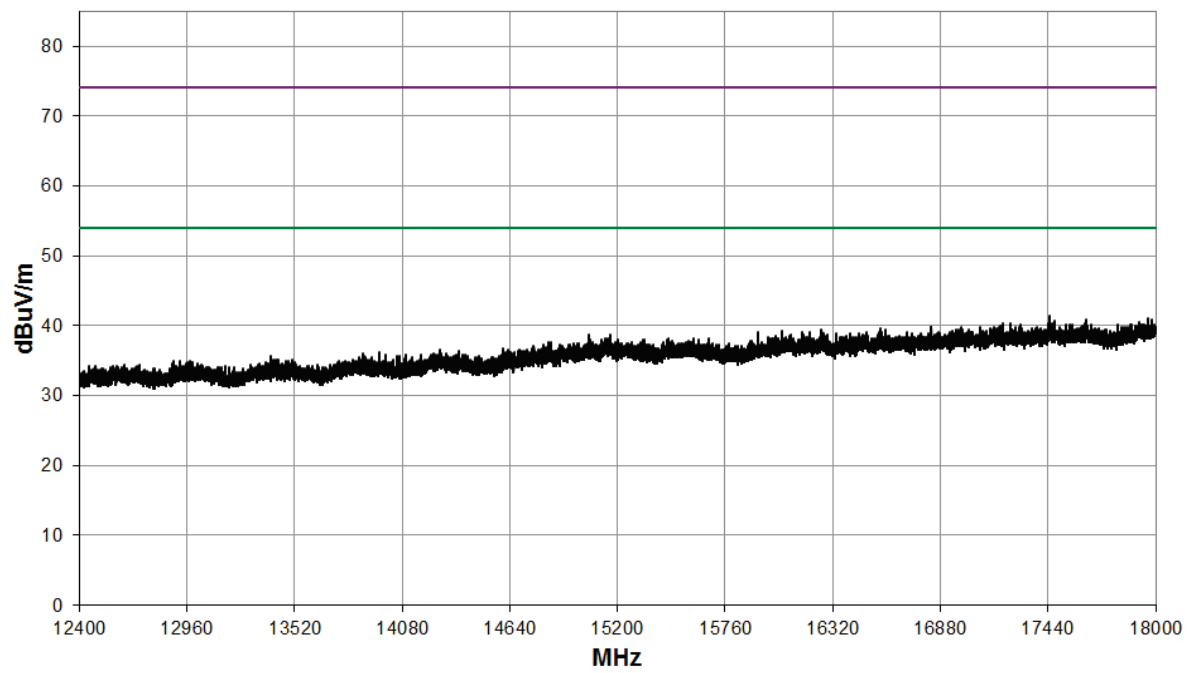
3 GHz to 8.2 GHz



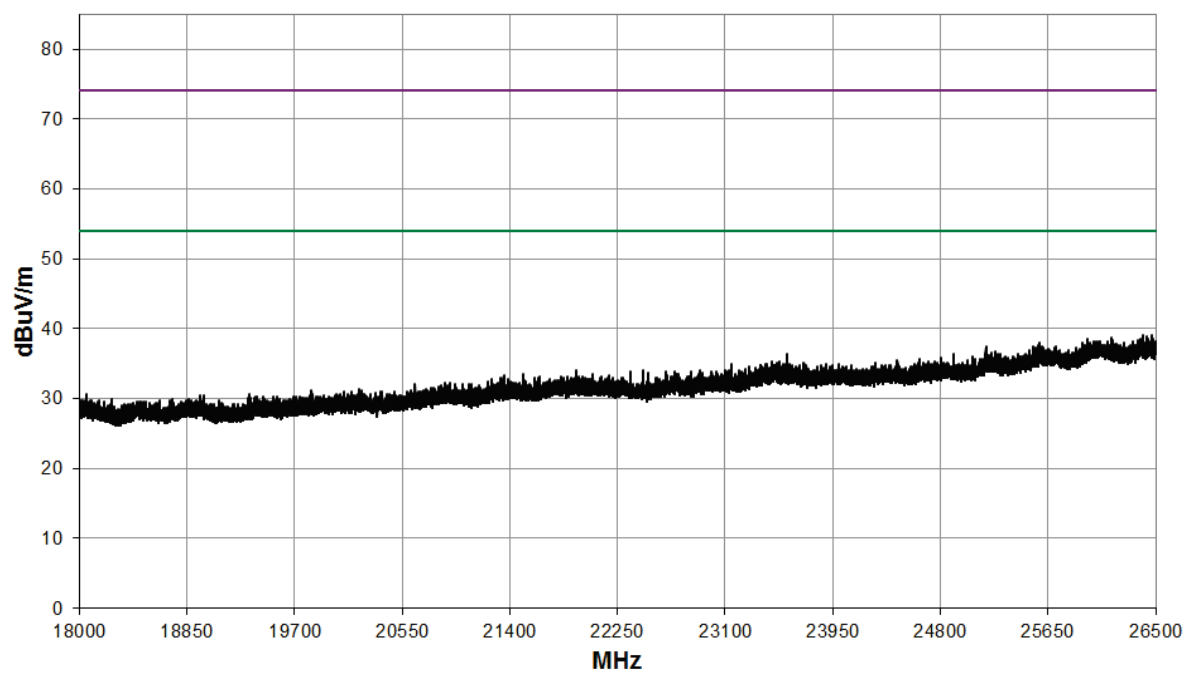
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



18 GHz to 26.5 GHz



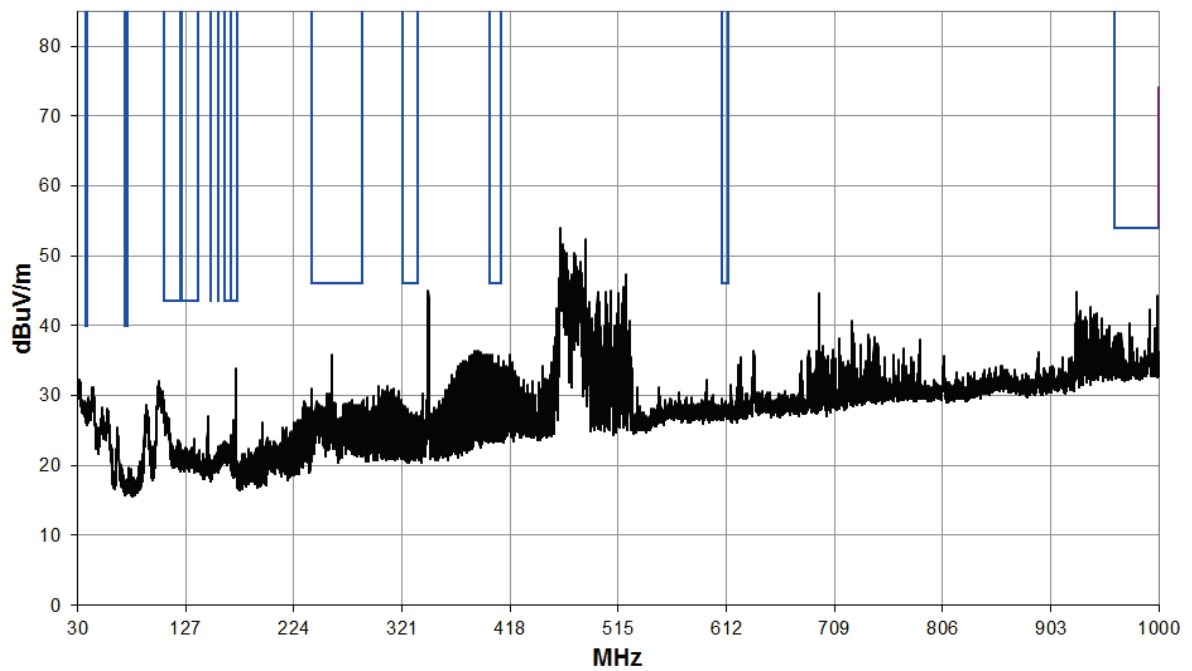
Band Edge

Element

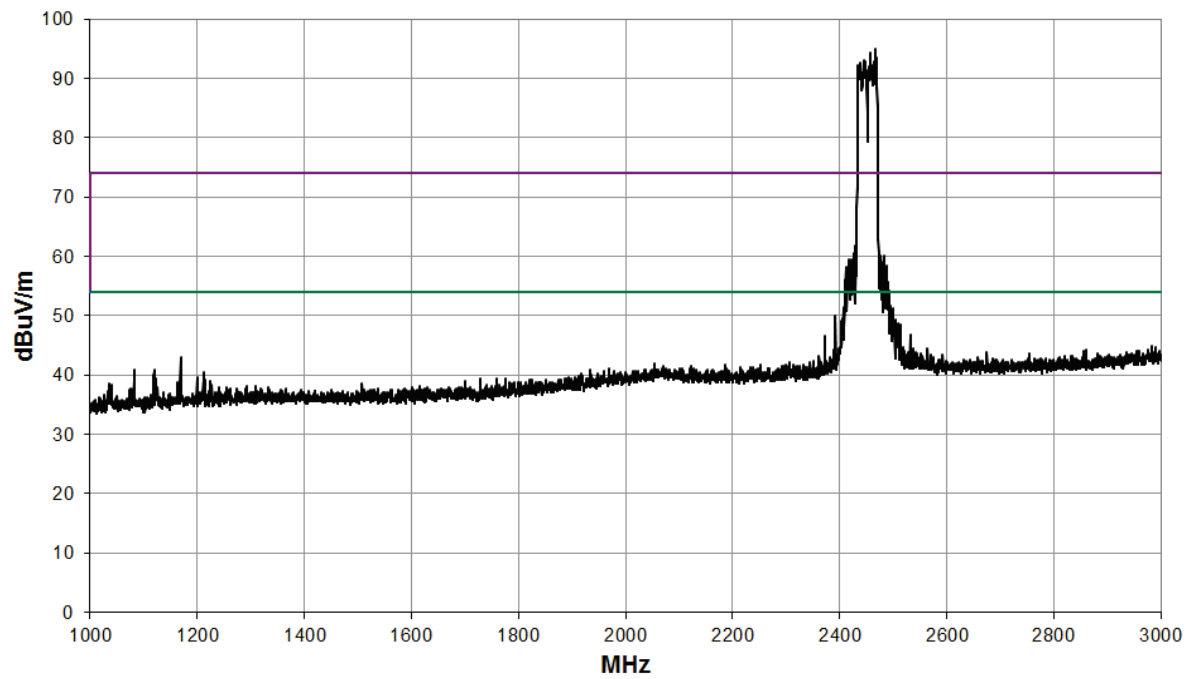


Mode: 802.11n40; Channel: CH9; Frequency: 2452 MHz; MCS index: MCS0; Power Setting: 12; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	4883.1	15.5	5.4	33.3	0.0	0.0	0.0	54.2	512.9	5000
AV	4887.5	-3.6	5.4	33.3	0.0	0.0	0.0	35.1	56.9	500
PK	12393.1	14.9	9.2	30.9	0.0	0.0	0.0	55.0	562.3	5000
AV	12393.7	-1.2	9.2	30.9	0.0	0.0	0.0	38.9	88.1	500

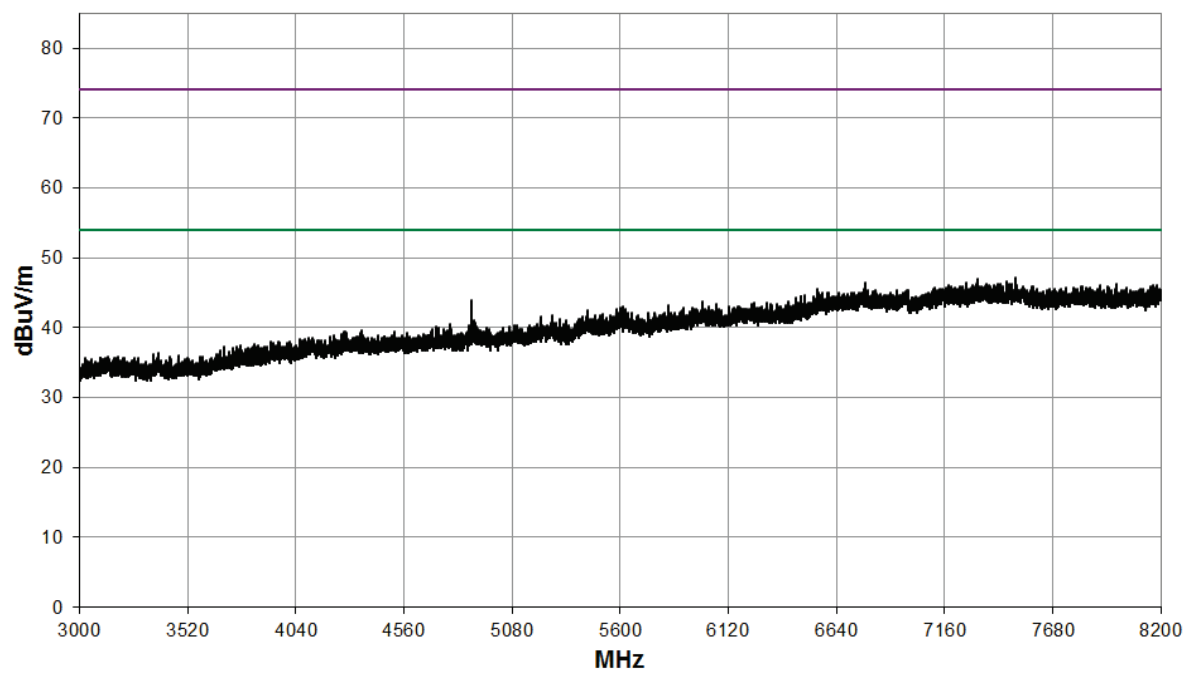
30 MHz to 1 GHz



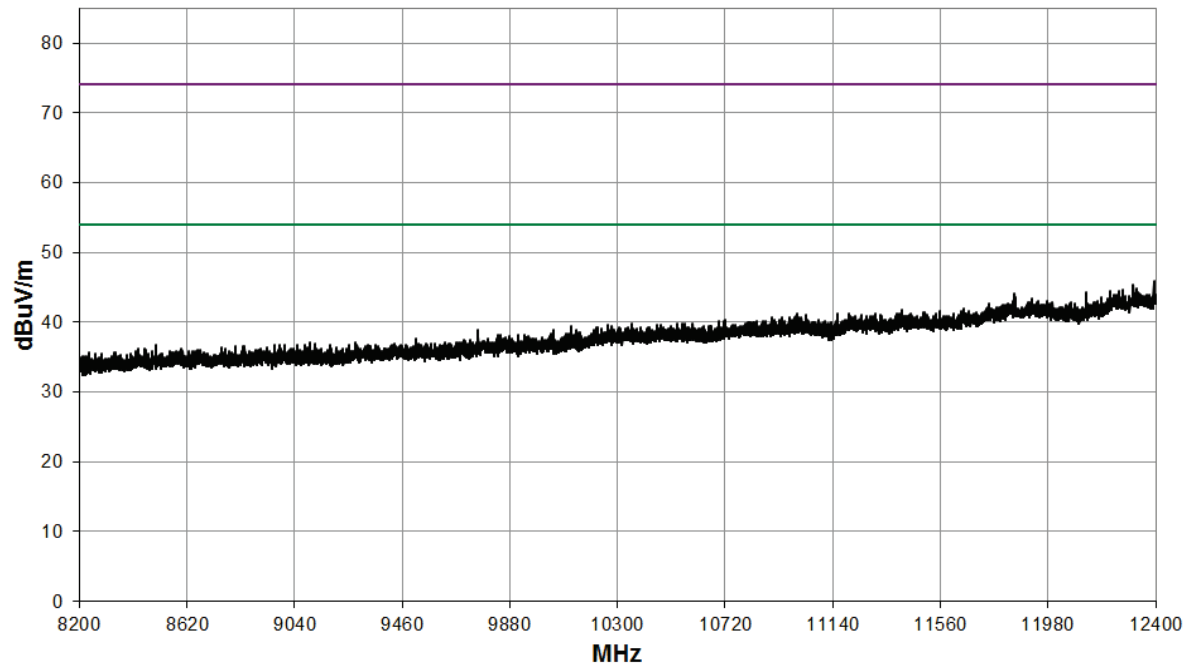
1 GHz to 3 GHz



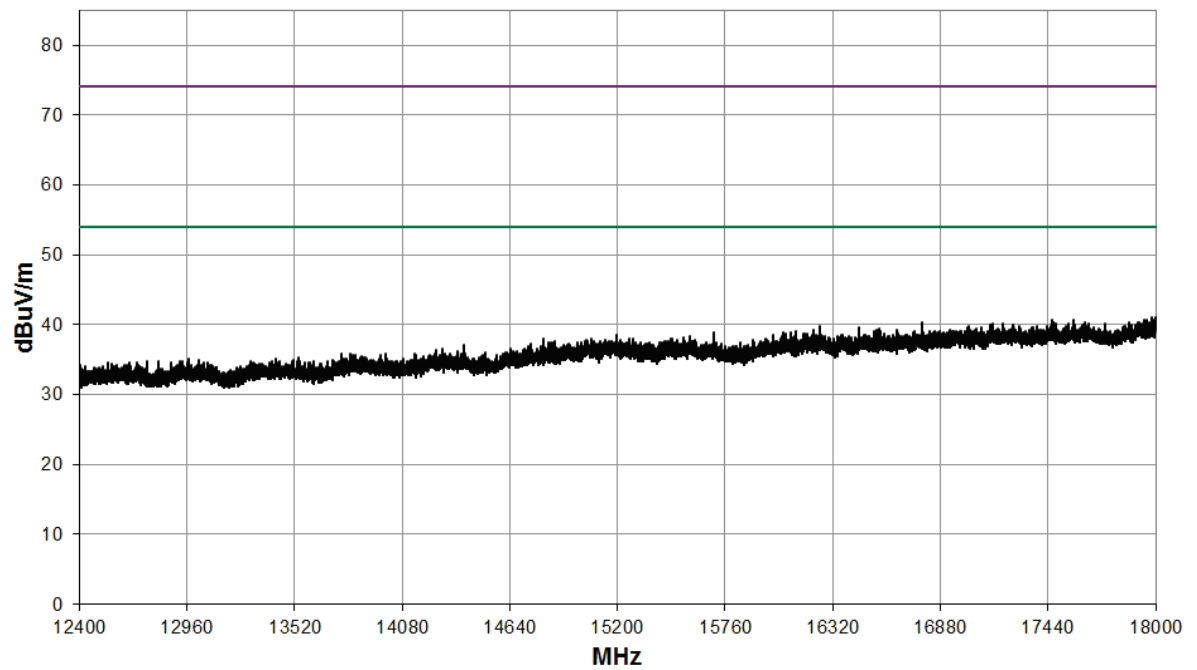
3 GHz to 8.2 GHz



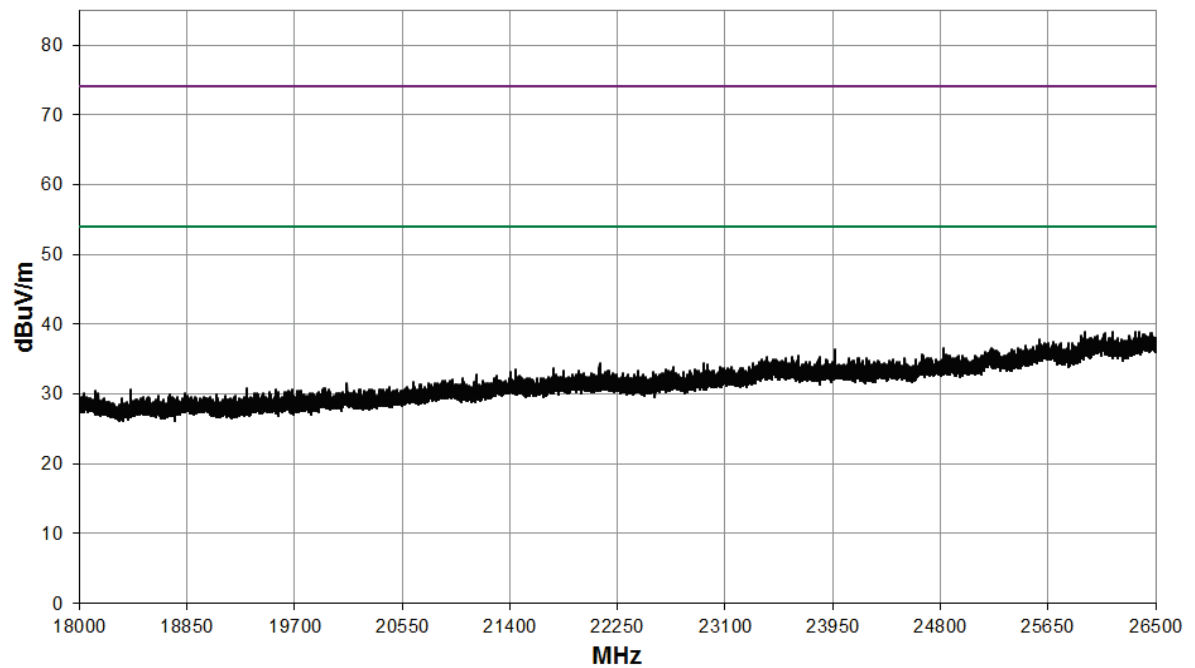
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

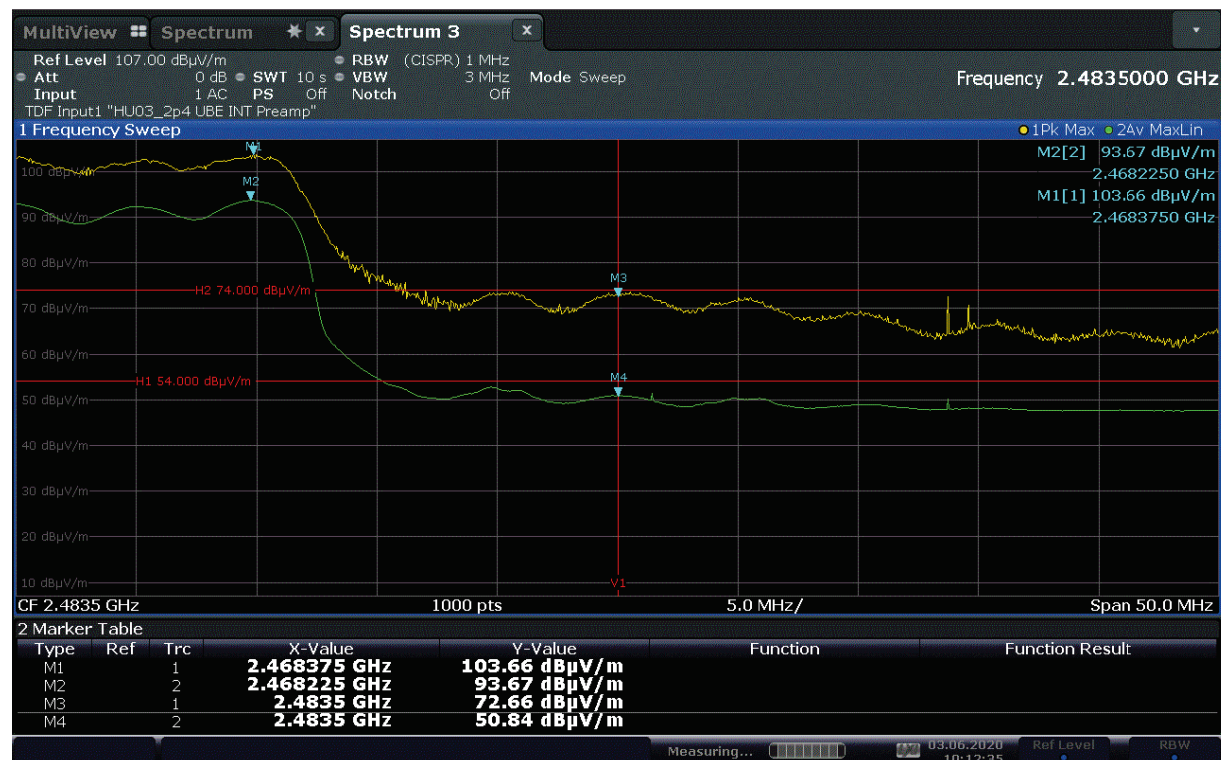


18 GHz to 26.5 GHz



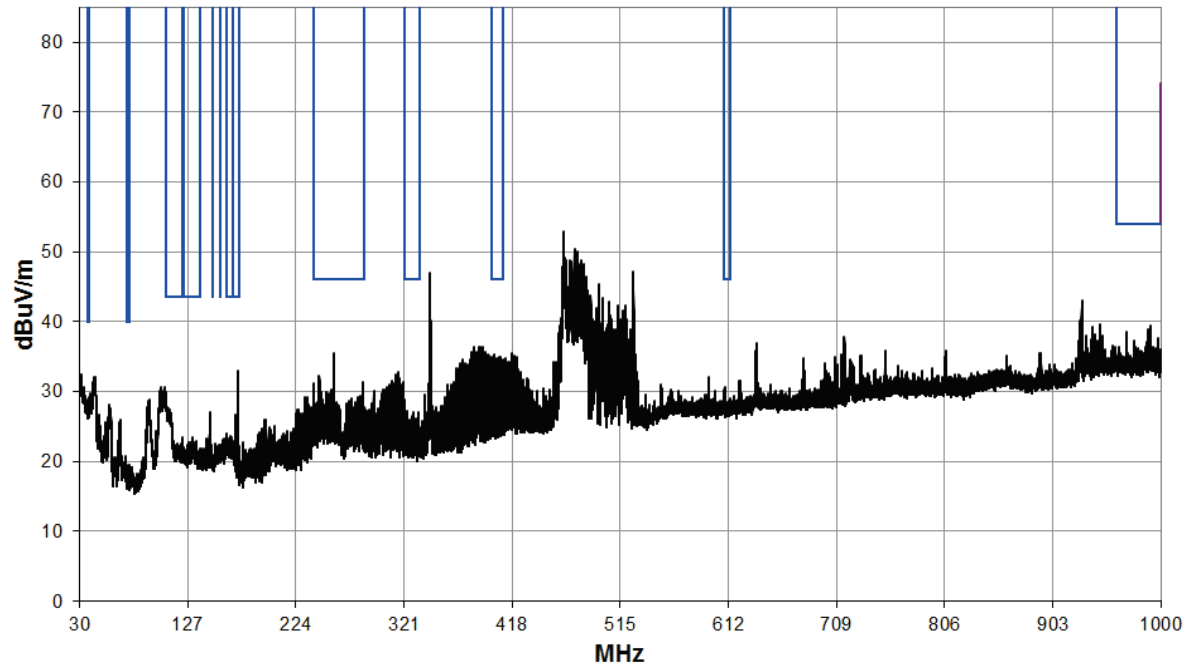
Band Edge

Element

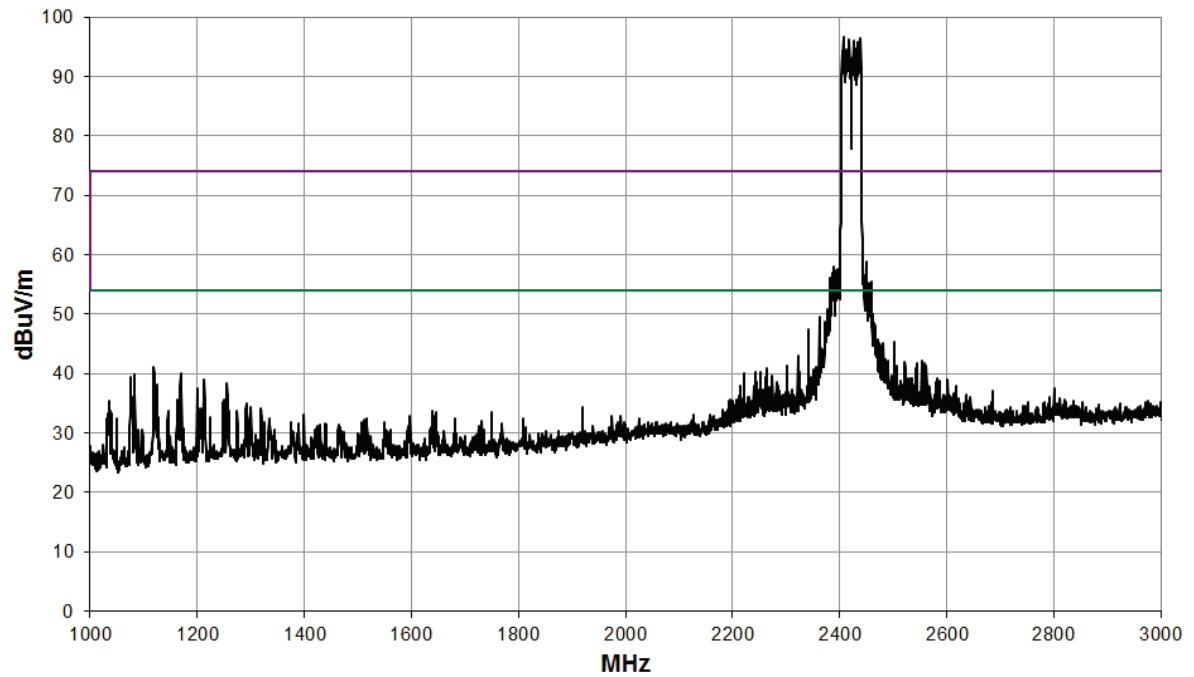


Mode: 802.11n40; Channel: CH3; Frequency: 2422 MHz; MCS index: MCS7; Power Setting: 12; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500

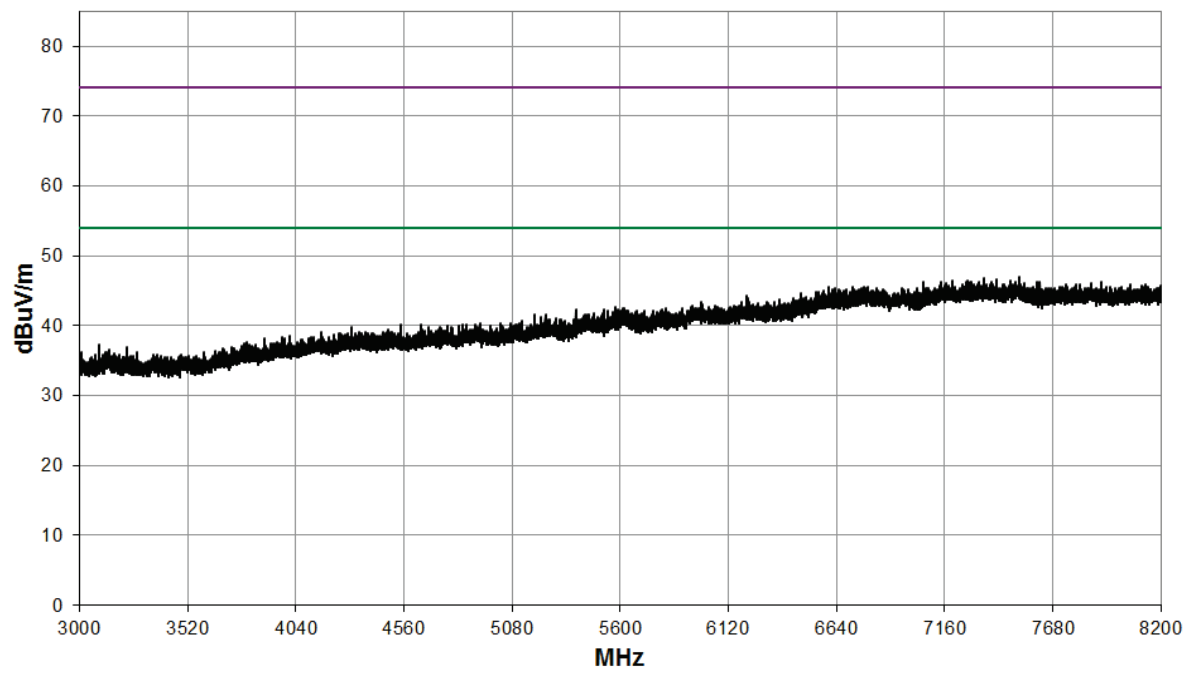
30 MHz to 1 GHz



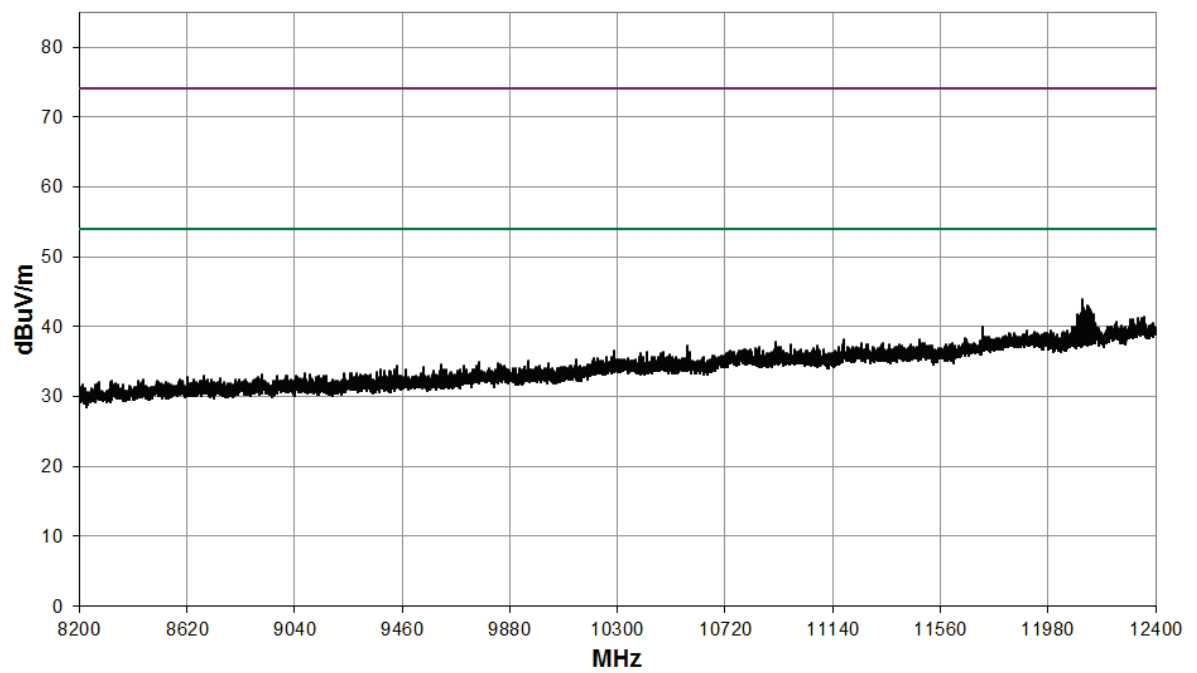
1 GHz to 3 GHz



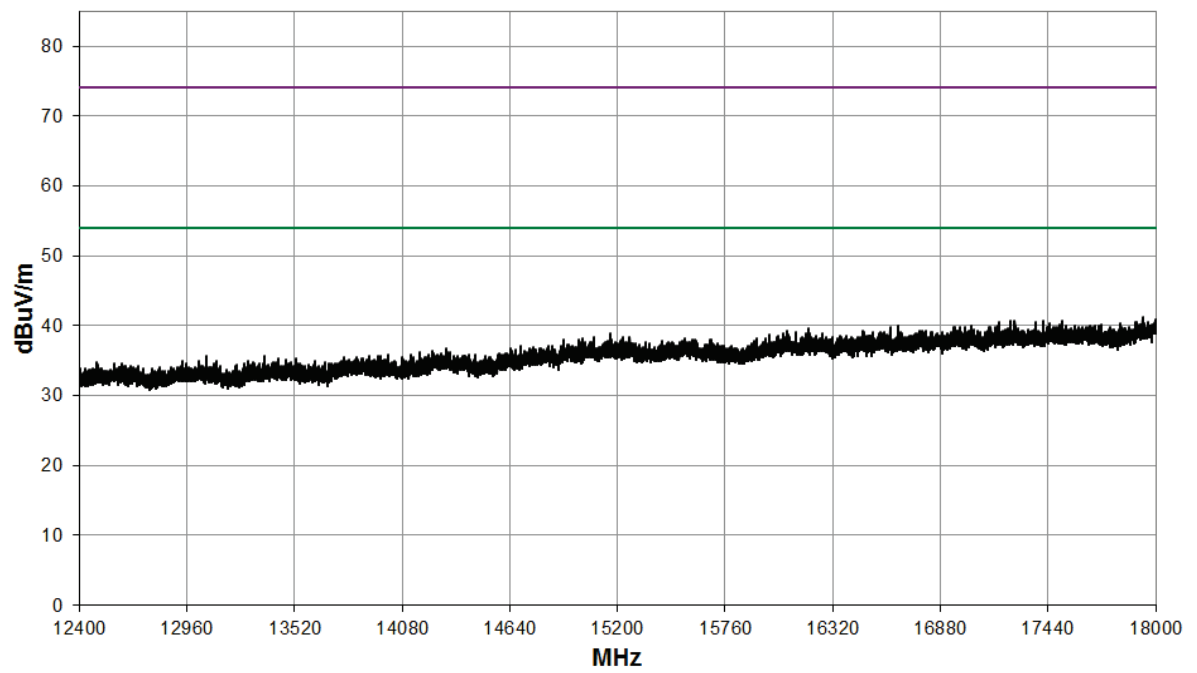
3 GHz to 8.2 GHz



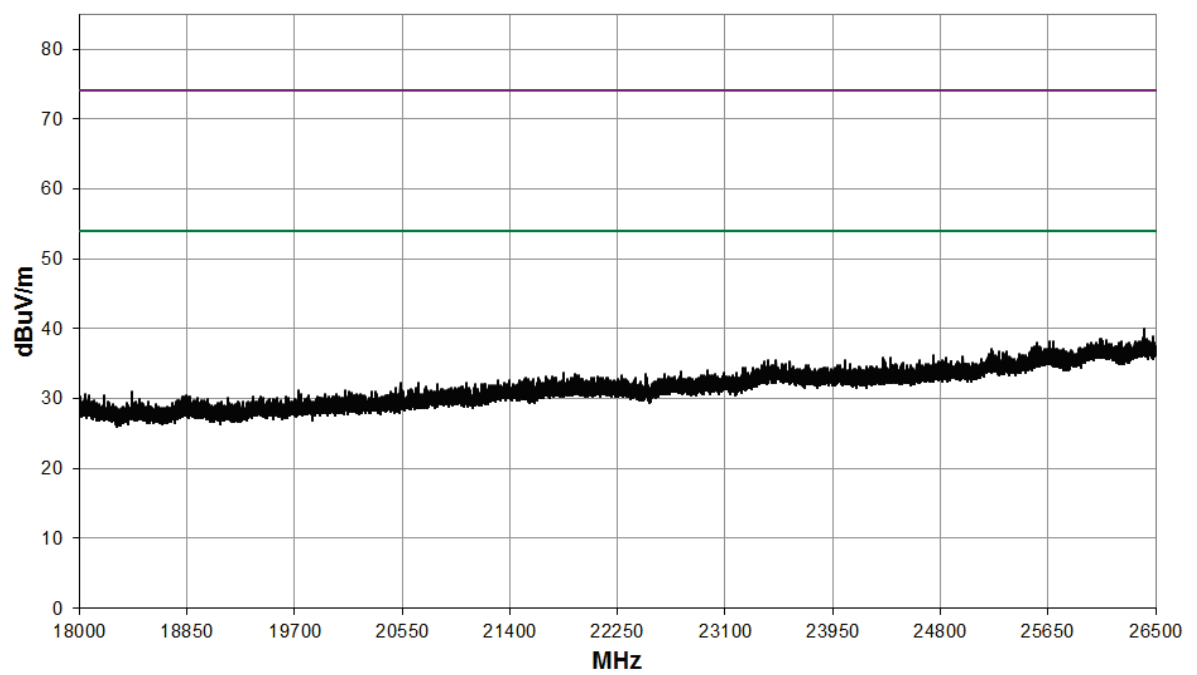
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

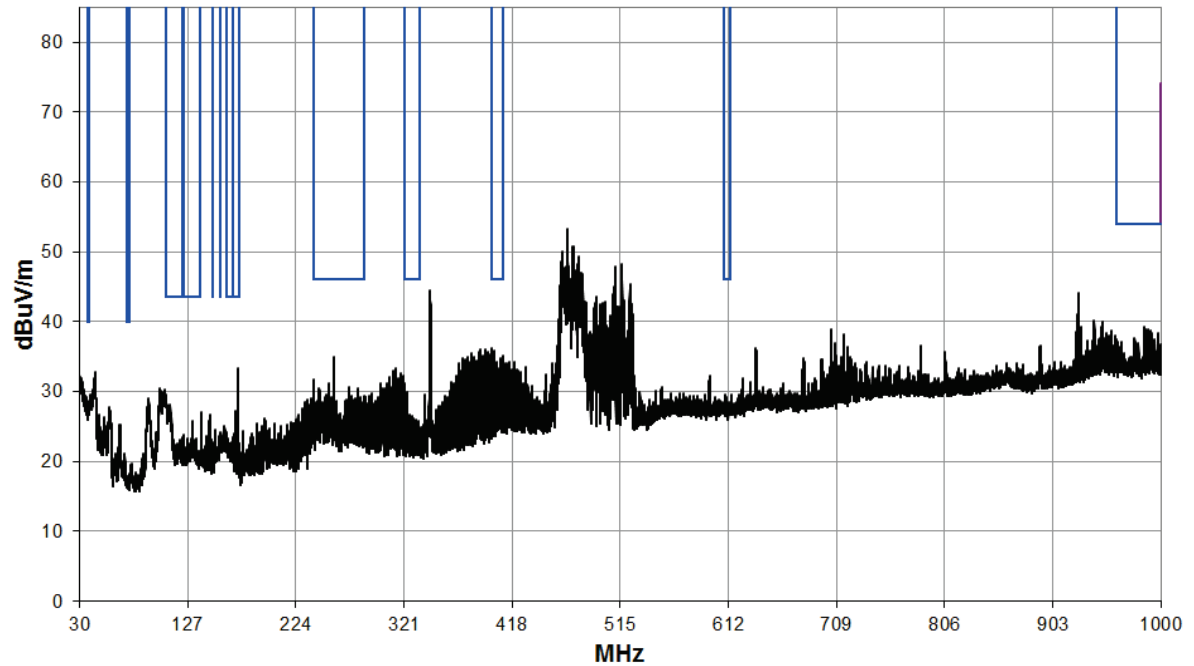


18 GHz to 26.5 GHz

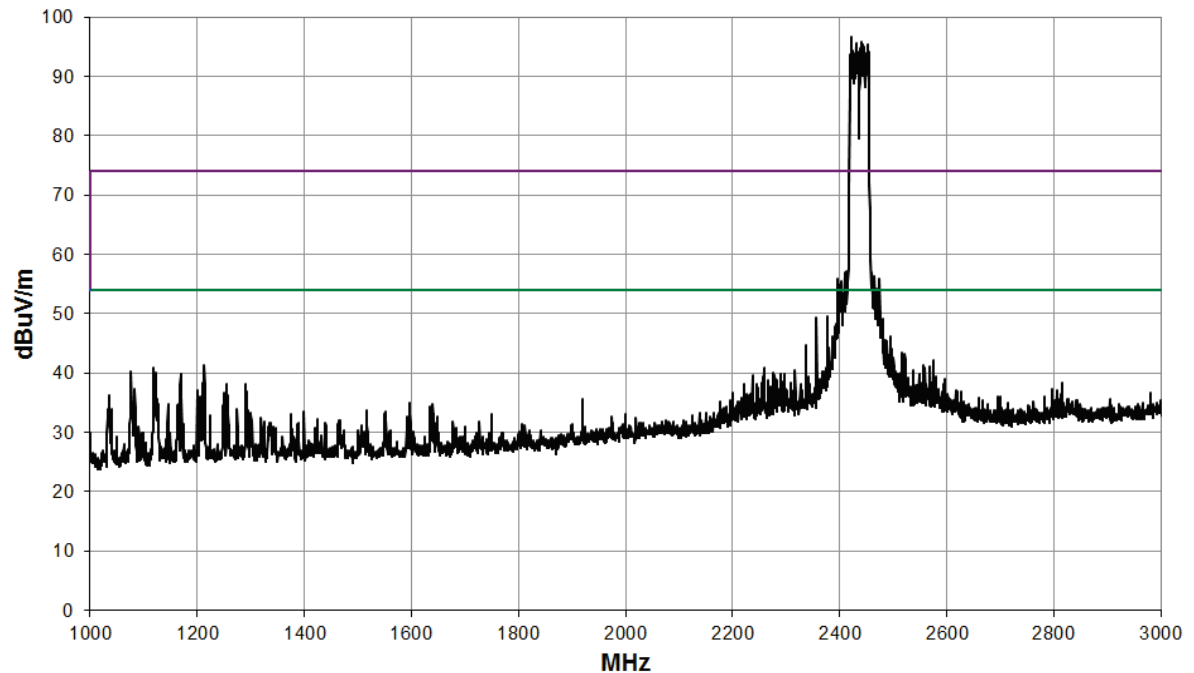


Mode: 802.11n40; Channel: CH4; Frequency: 2437 MHz; MCS index: MCS7; Power Setting: 12; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	12183.2	20.8	9.1	30.2	0.0	0.0	-3.5	56.6	676.1	5000
AV	12183.7	4.8	9.1	30.2	0.0	0.0	-3.5	40.6	107.2	500

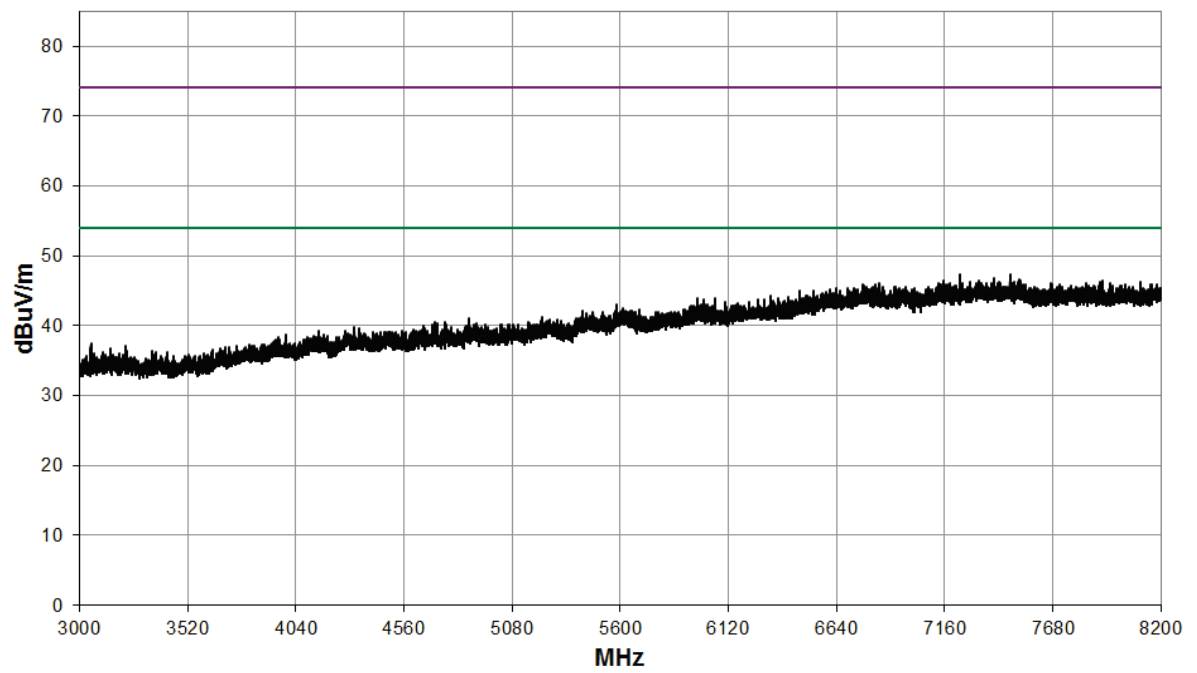
30 MHz to 1 GHz



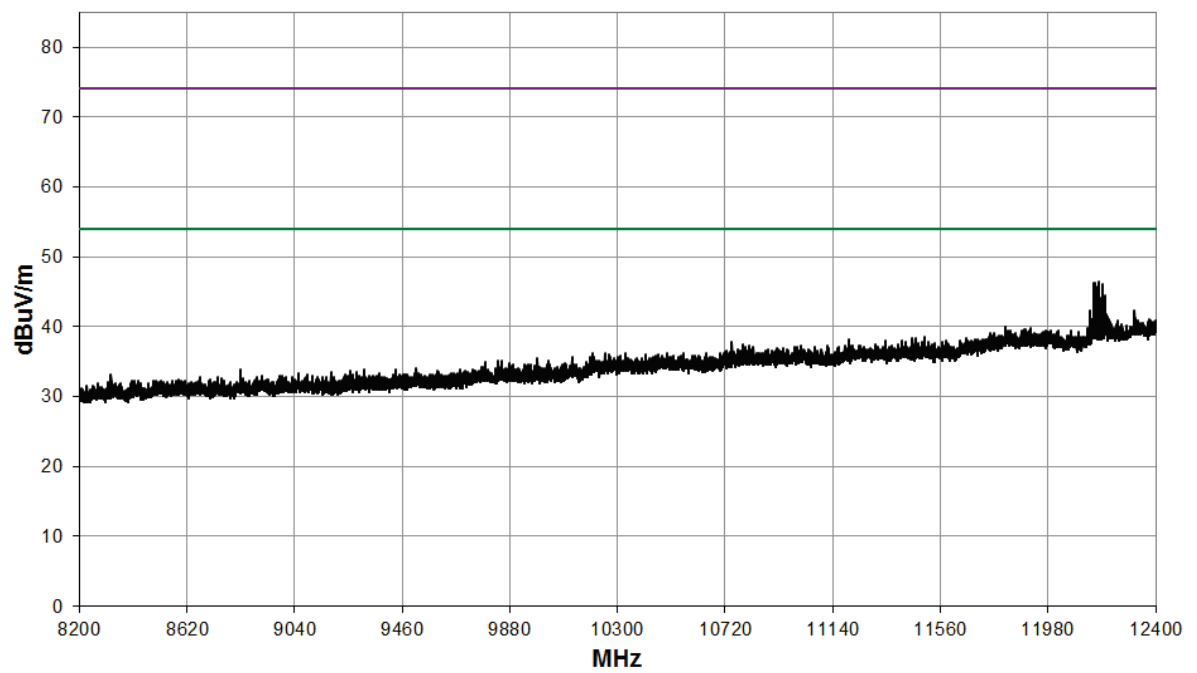
1 GHz to 3 GHz



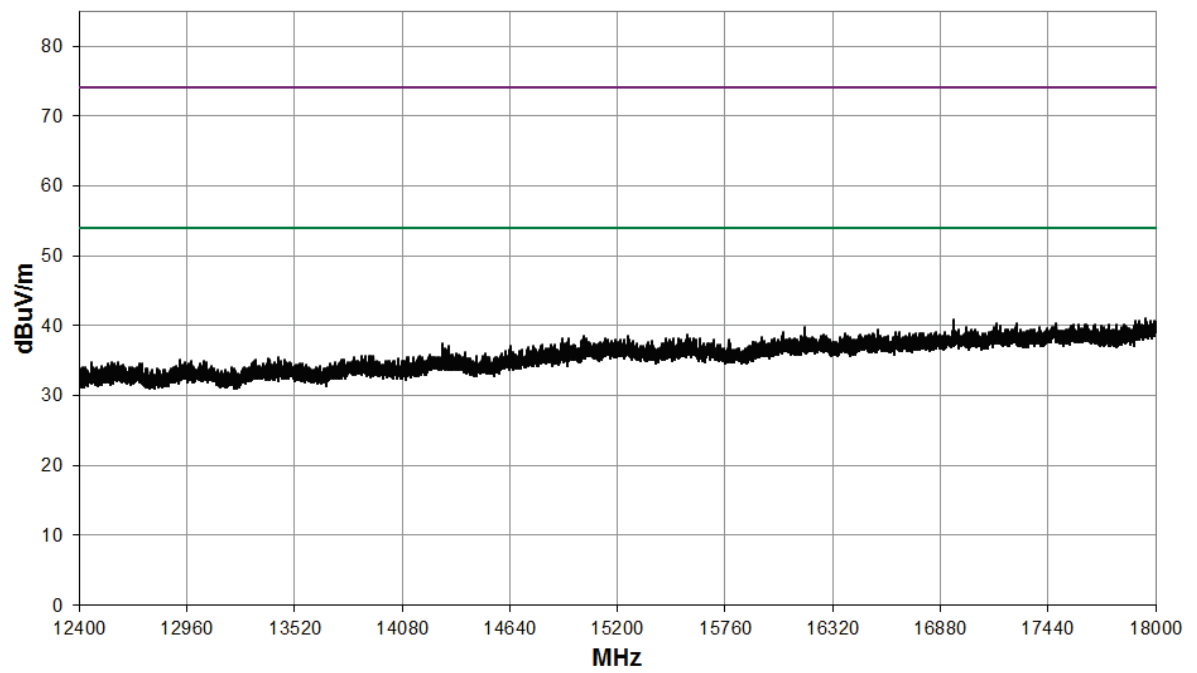
3 GHz to 8.2 GHz



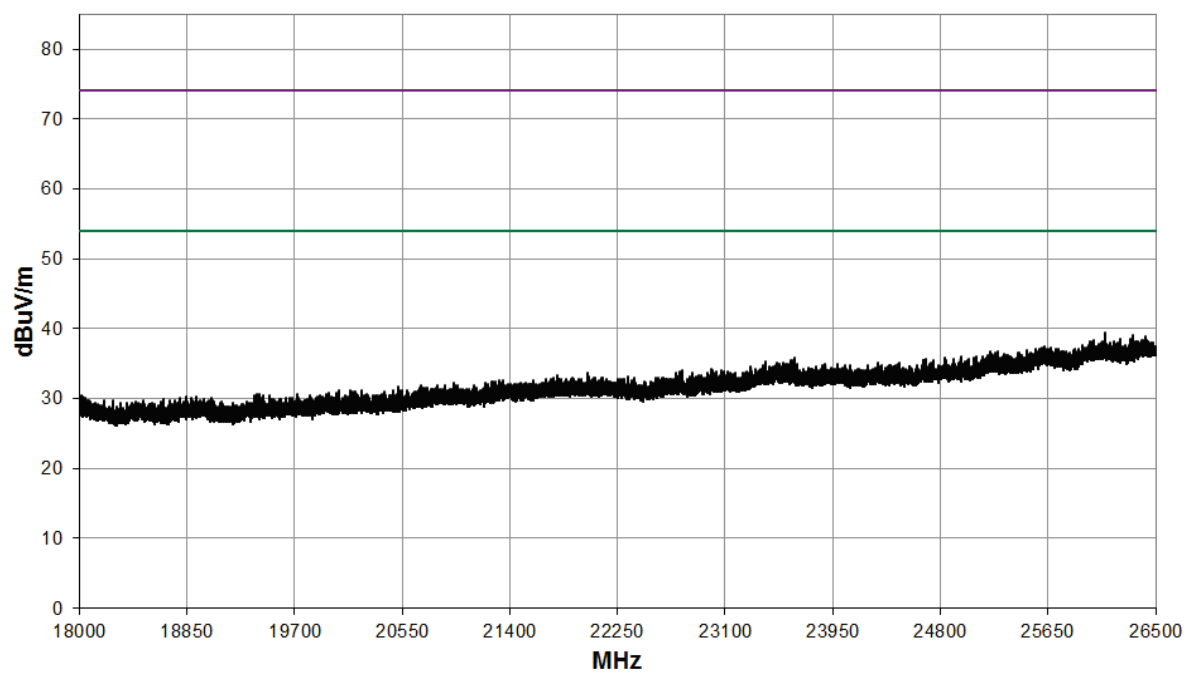
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

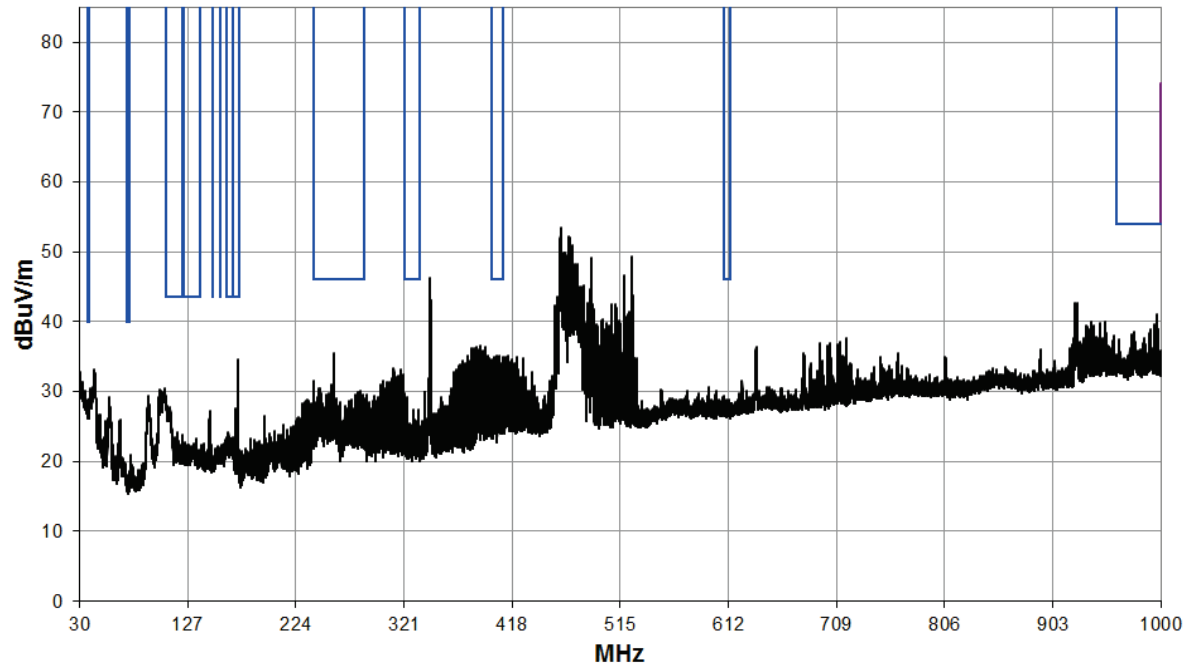


18 GHz to 26.5 GHz

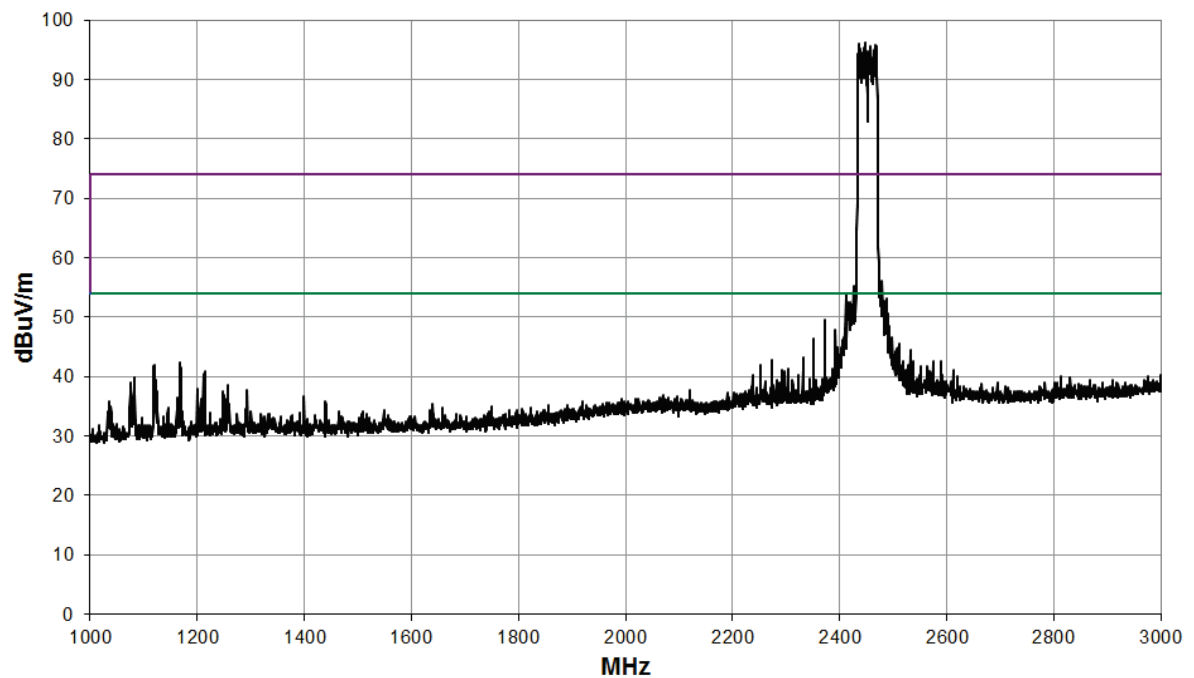


Mode: 802.11n40; Channel: CH9; Frequency: 2452 MHz; MCS index: MCS7; Power Setting: 12; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	12311.5	1.2	9.1	30.7	0.0	0.0	0.0	41.0	112.2	500
PK	12317.5	18.3	9.1	30.7	0.0	0.0	0.0	58.1	803.5	5000

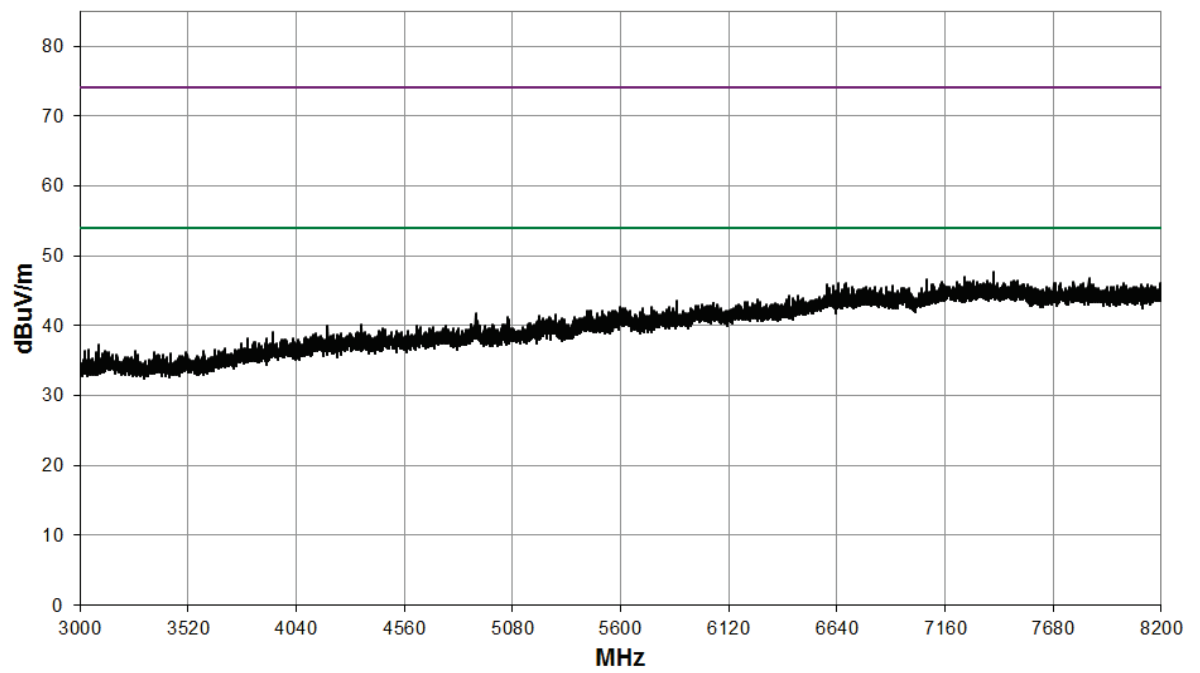
30 MHz to 1 GHz



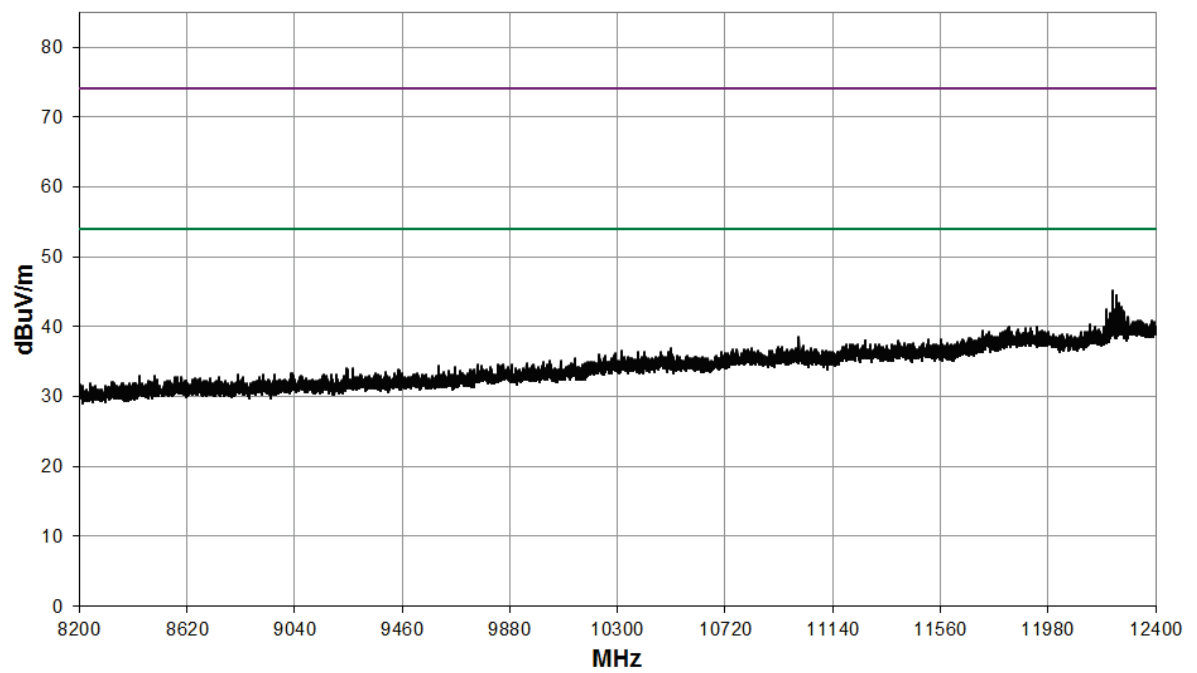
1 GHz to 3 GHz



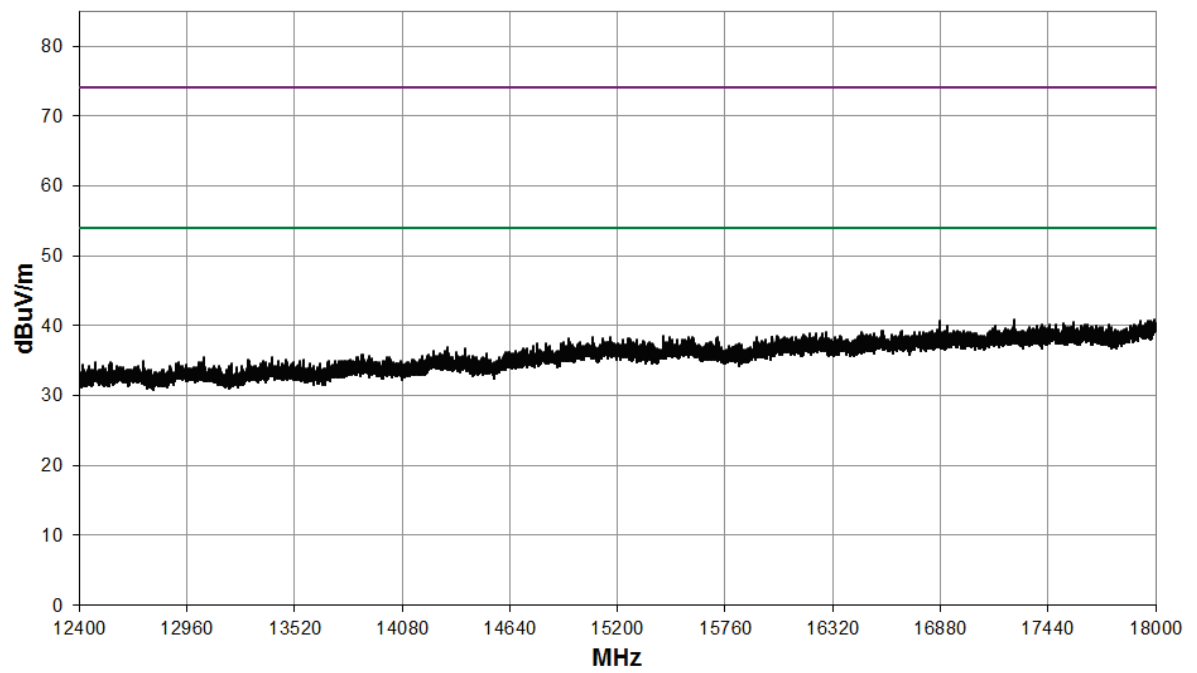
3 GHz to 8.2 GHz



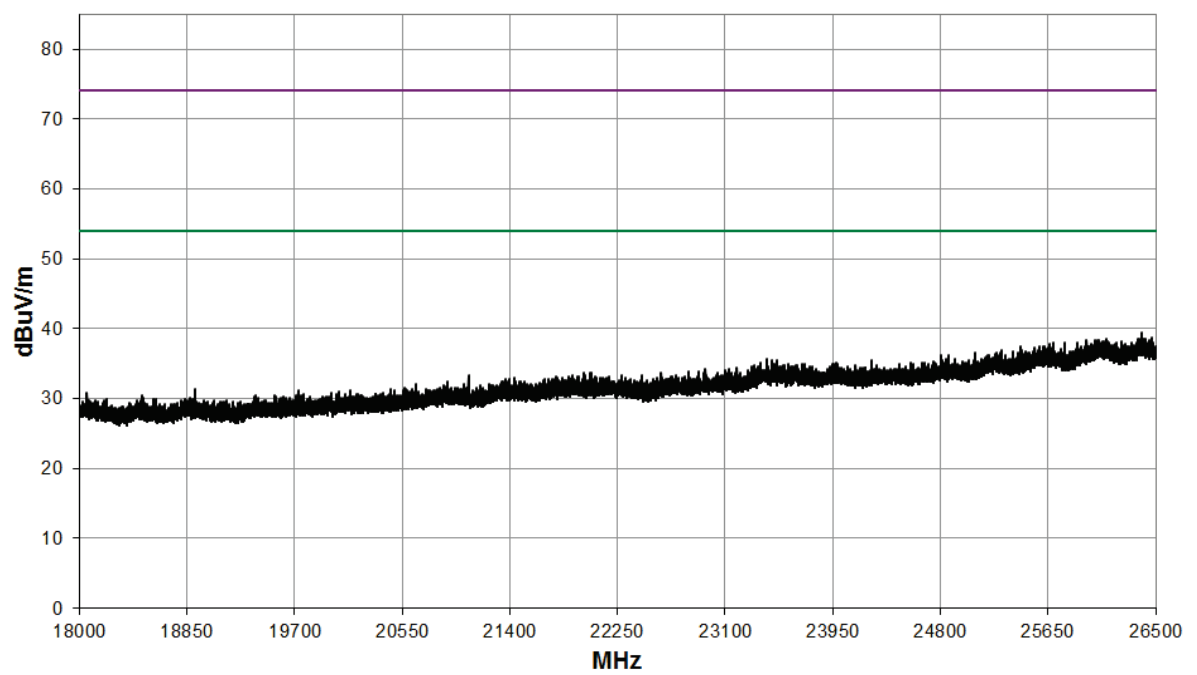
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

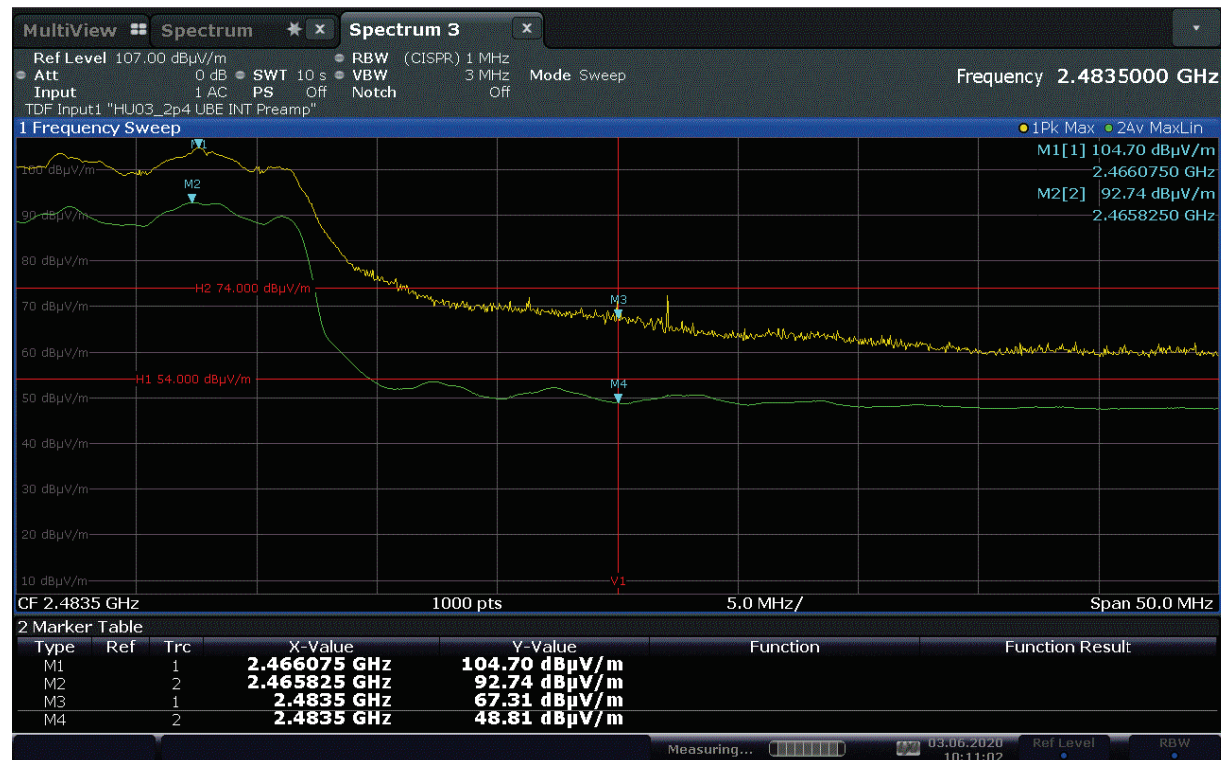


18 GHz to 26.5 GHz



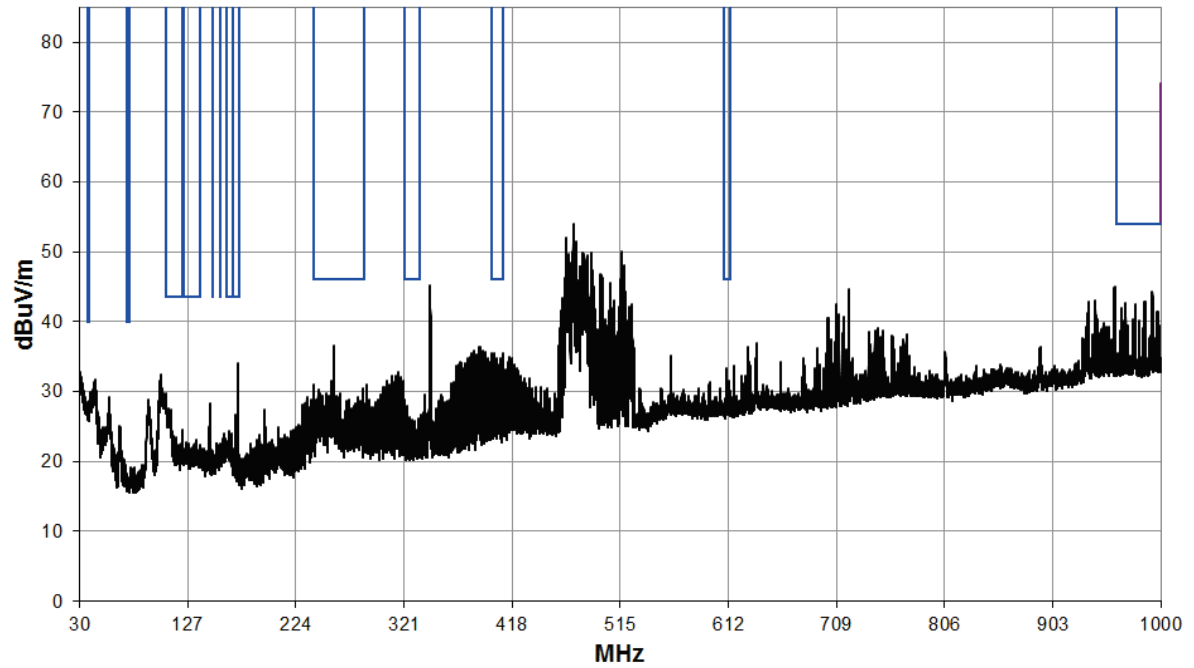
Band Edge

Element

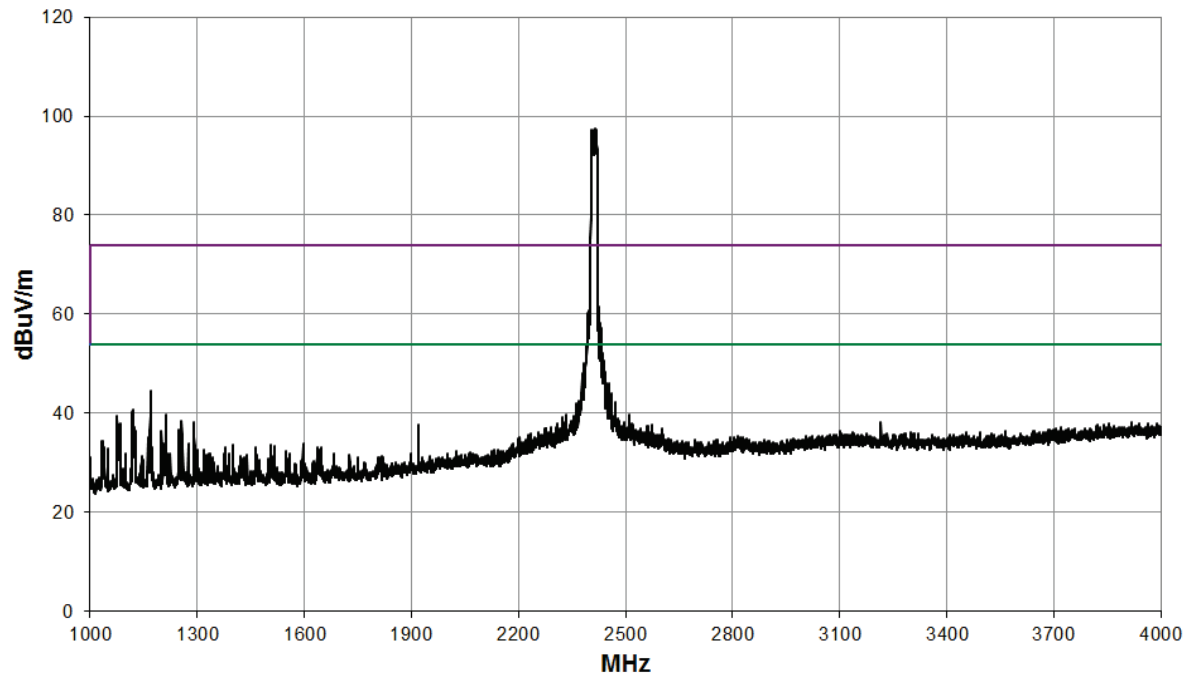


MIMO Mode: 802.11n20; Channel: CH1; Frequency: 2412 MHz; MCS index: MCS8; Power Setting: 13;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	12061.2	-0.1	9.0	30.4	0.0	0.0	0.0	39.3	92.3	500
PK	12064.8	16.2	9.0	30.5	0.0	0.0	0.0	55.7	609.5	5000

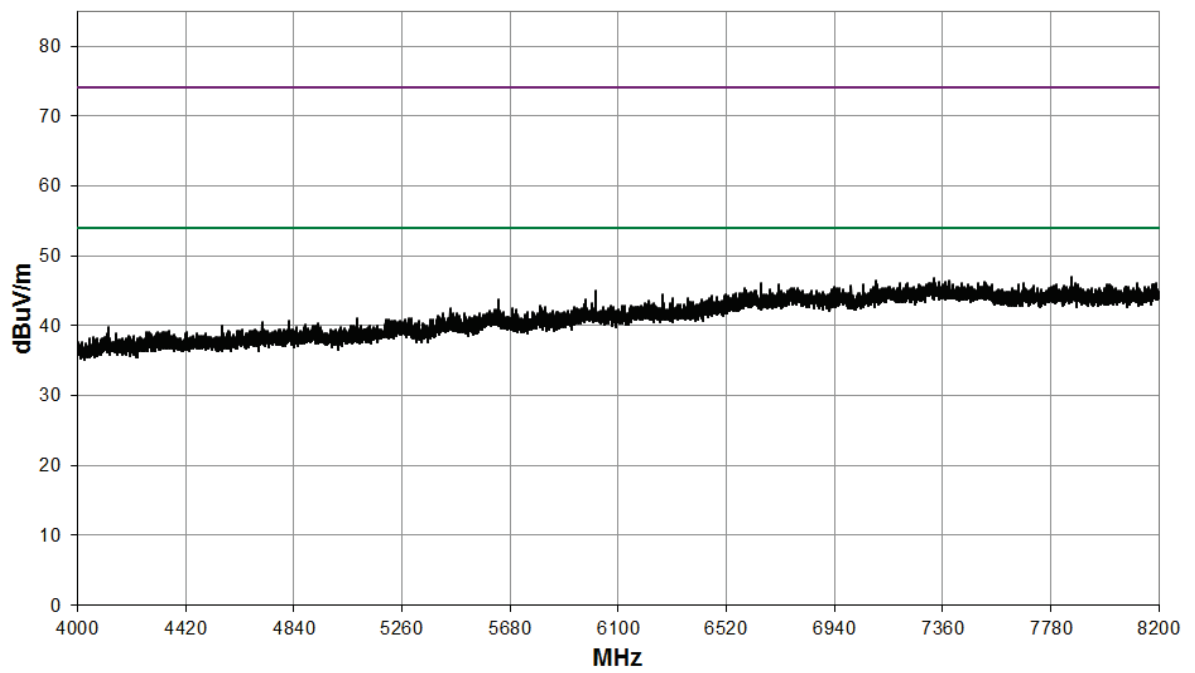
30 MHz to 1 GHz



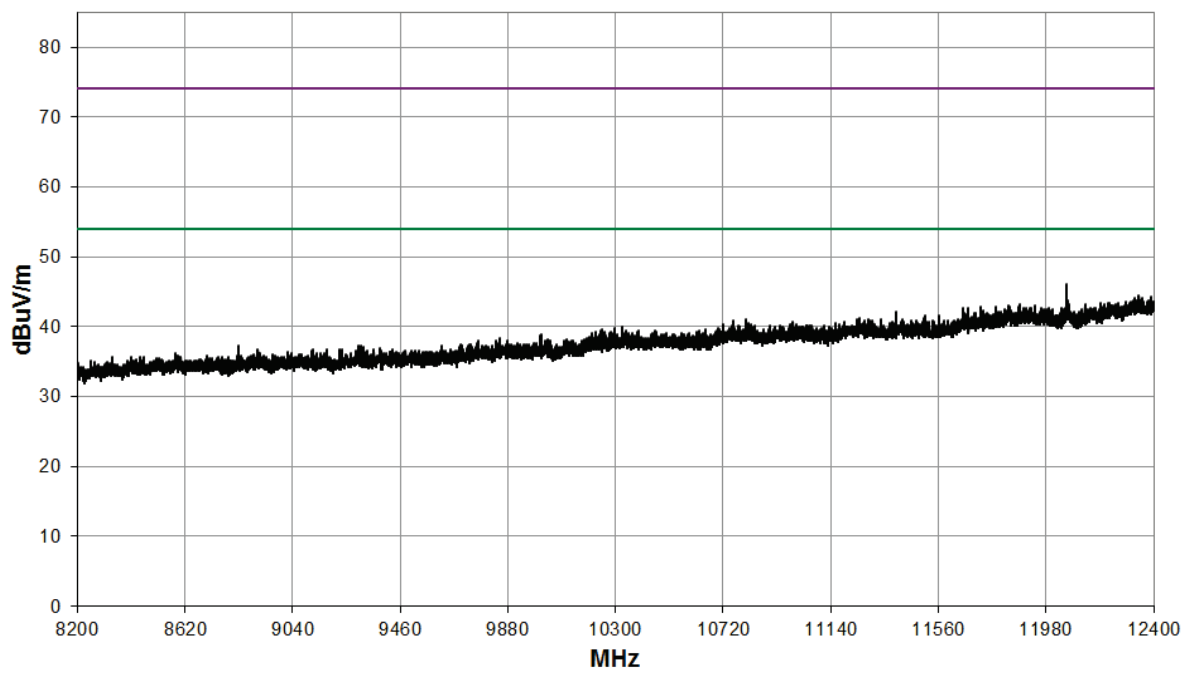
1 GHz to 4 GHz



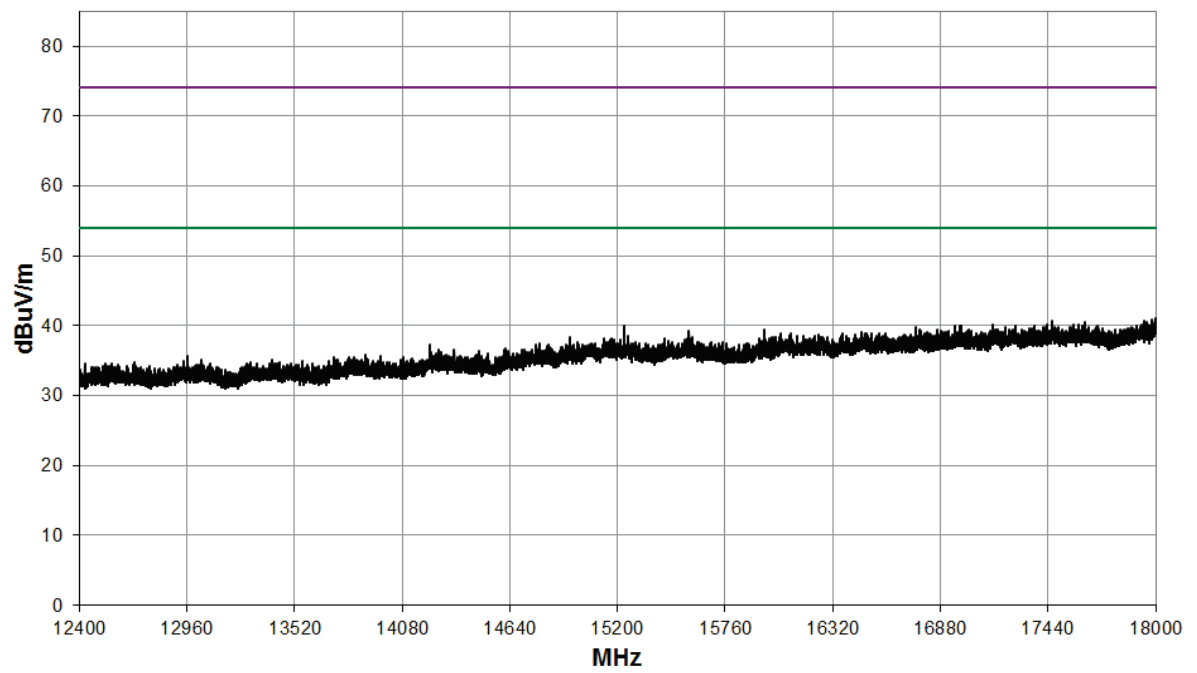
4 GHz to 8.2 GHz



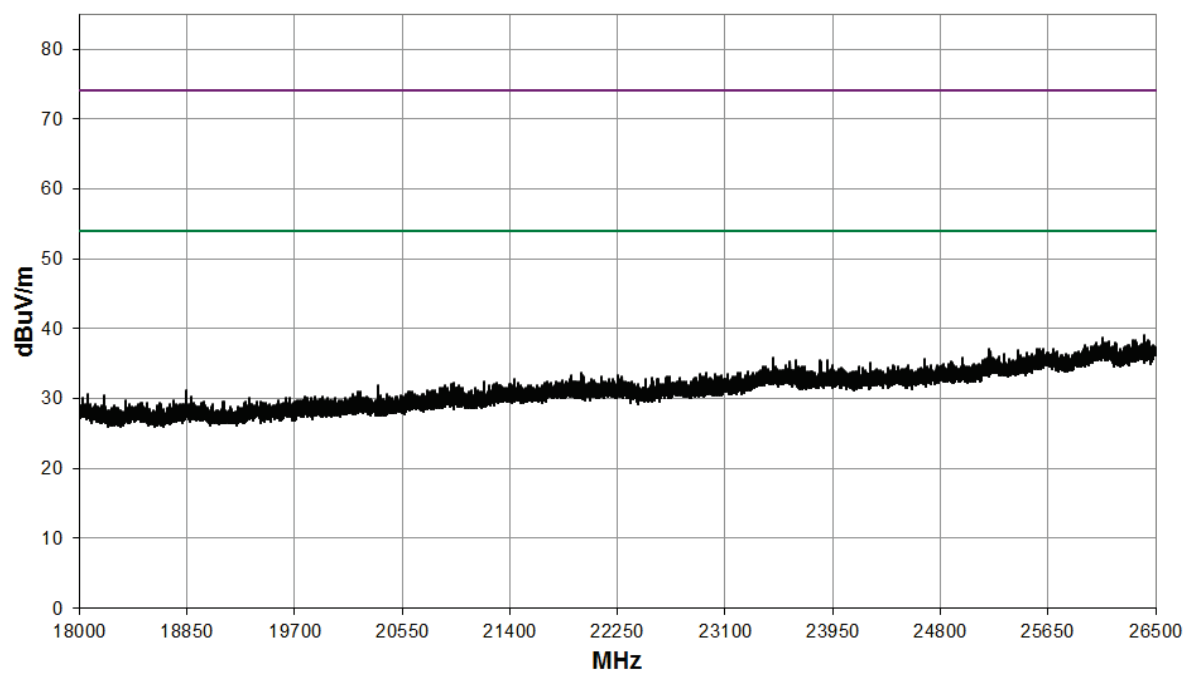
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



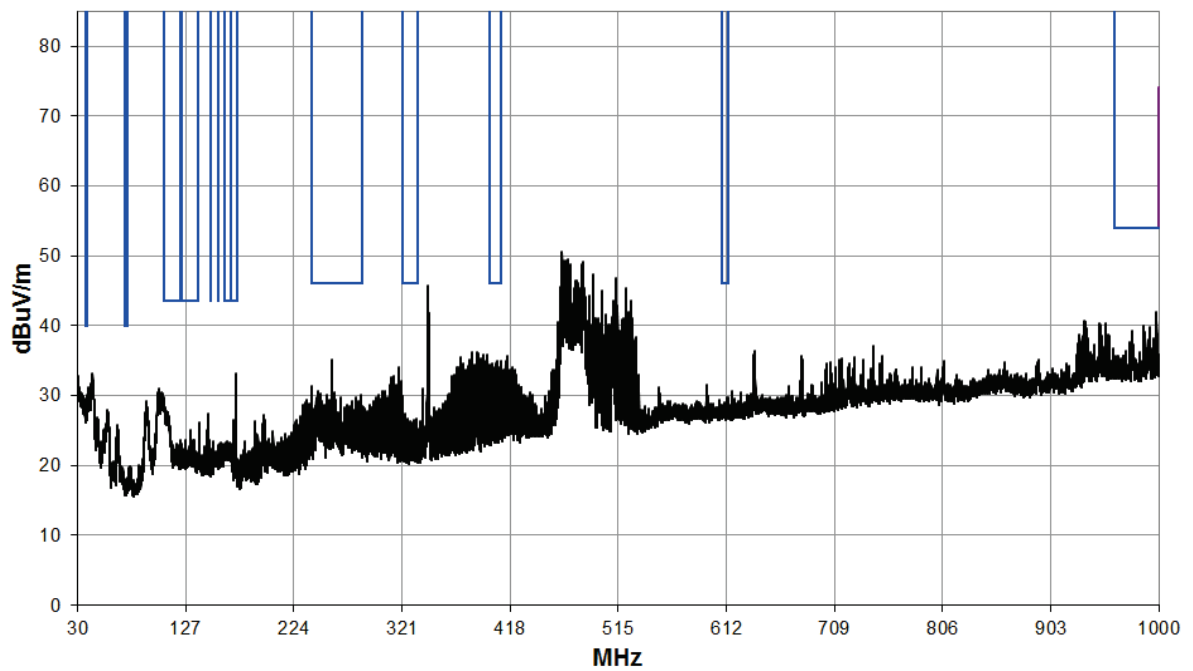
18 GHz to 26.5 GHz



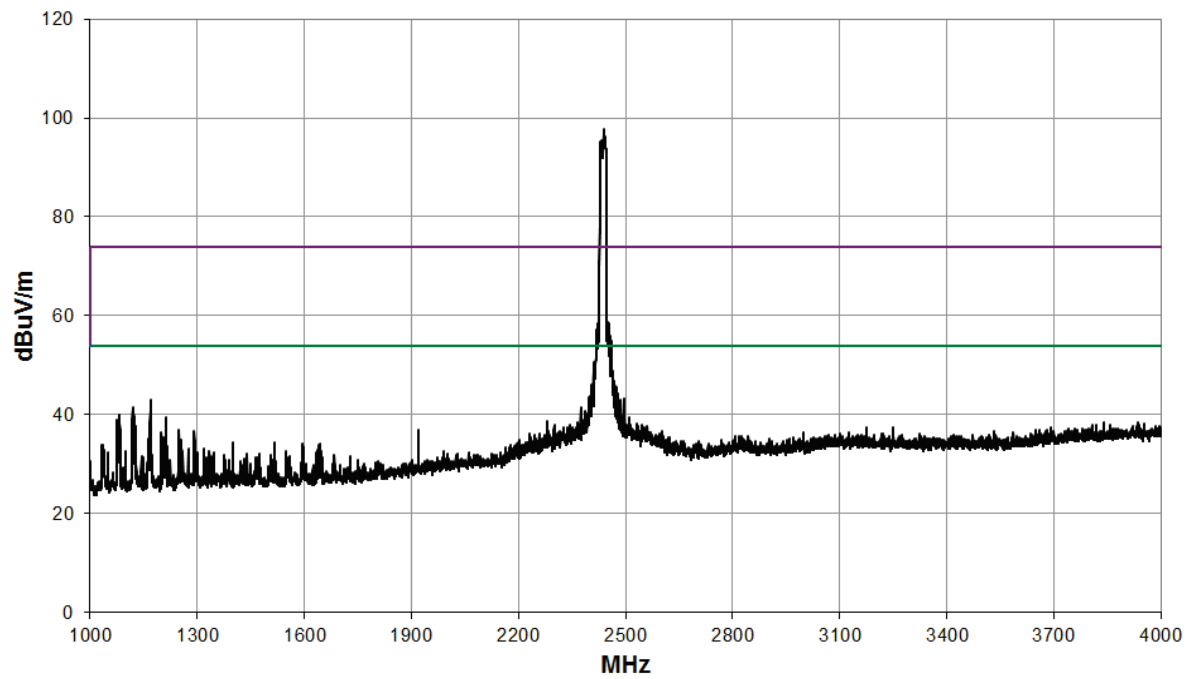
MIMO Mode: 802.11n20; Channel: CH6; Frequency: 2437 MHz; MCS index: MCS8; Power Setting: 13;

Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	4869.1	20.1	5.4	30.3	0.0	0.0	0.0	58.8	871.0	5000
AV	4873.1	-1.9	5.4	30.3	0.0	0.0	0.0	36.8	97.7	500
AV	12189.0	3.5	9.1	30.1	0.0	0.0	0.0	42.7	136.5	500
PK	12193.2	19.8	9.1	30.1	0.0	0.0	0.0	59.0	891.3	5000

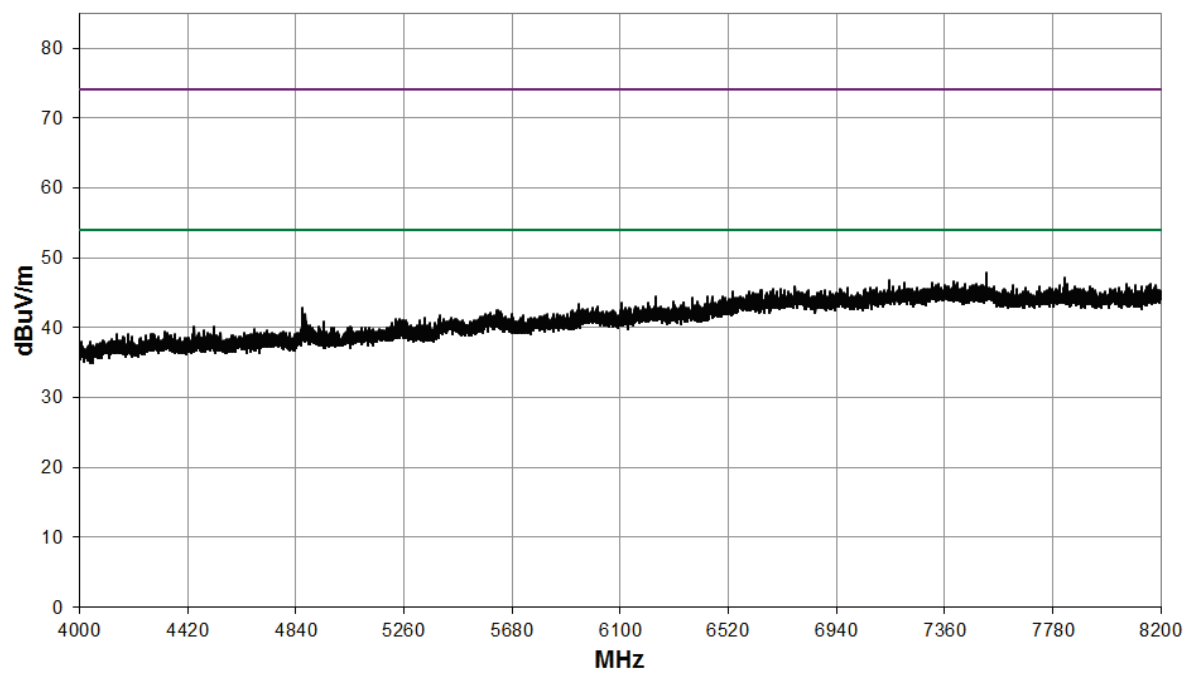
30 MHz to 1 GHz



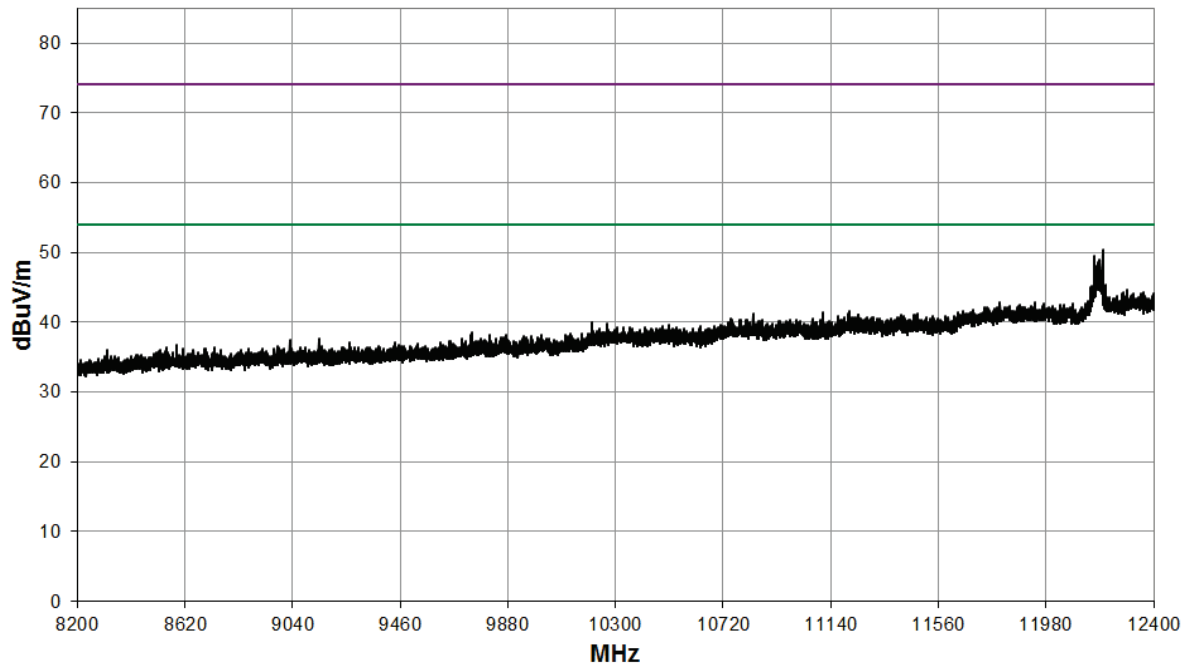
1 GHz to 4 GHz



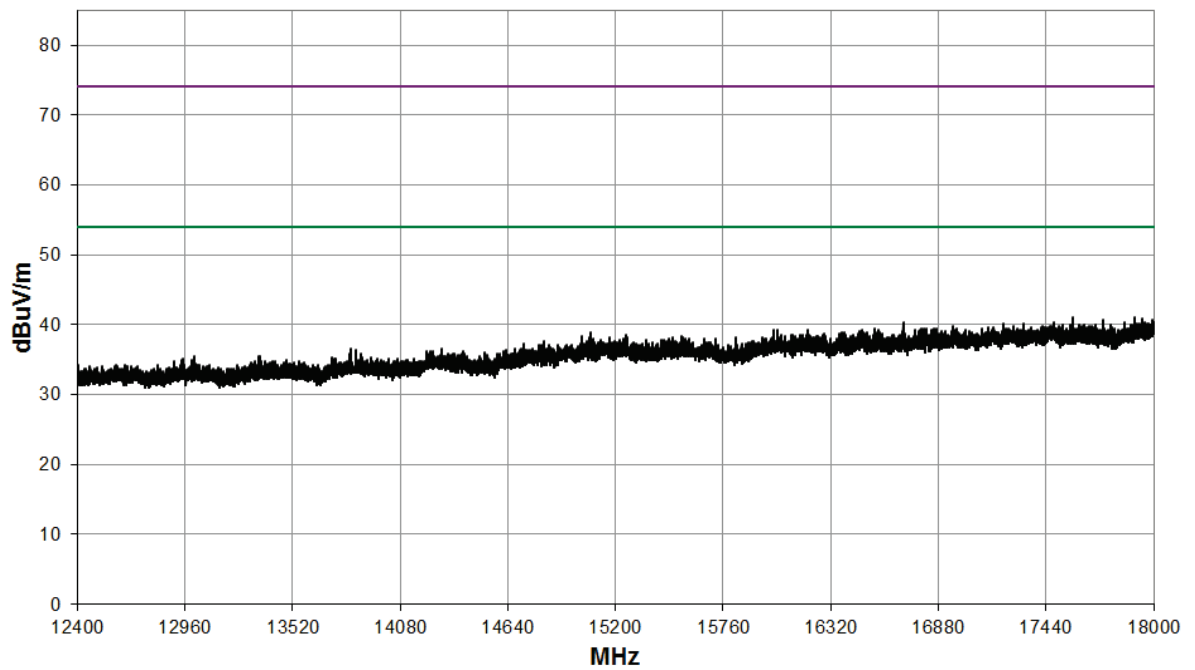
4 GHz to 8.2 GHz



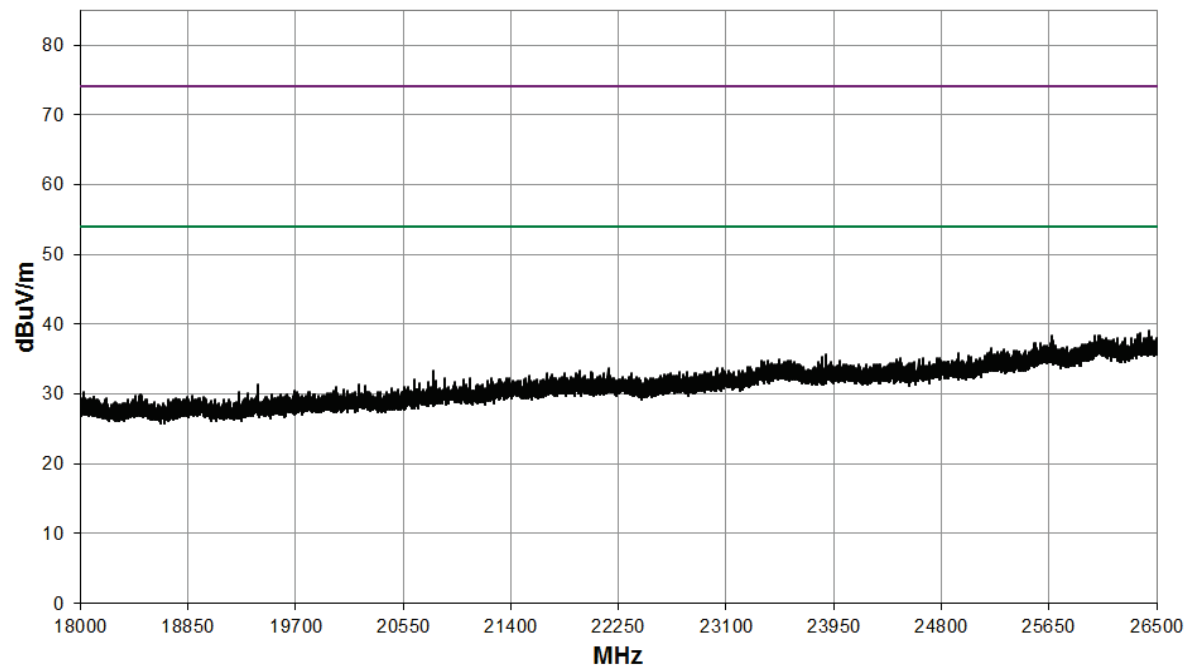
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

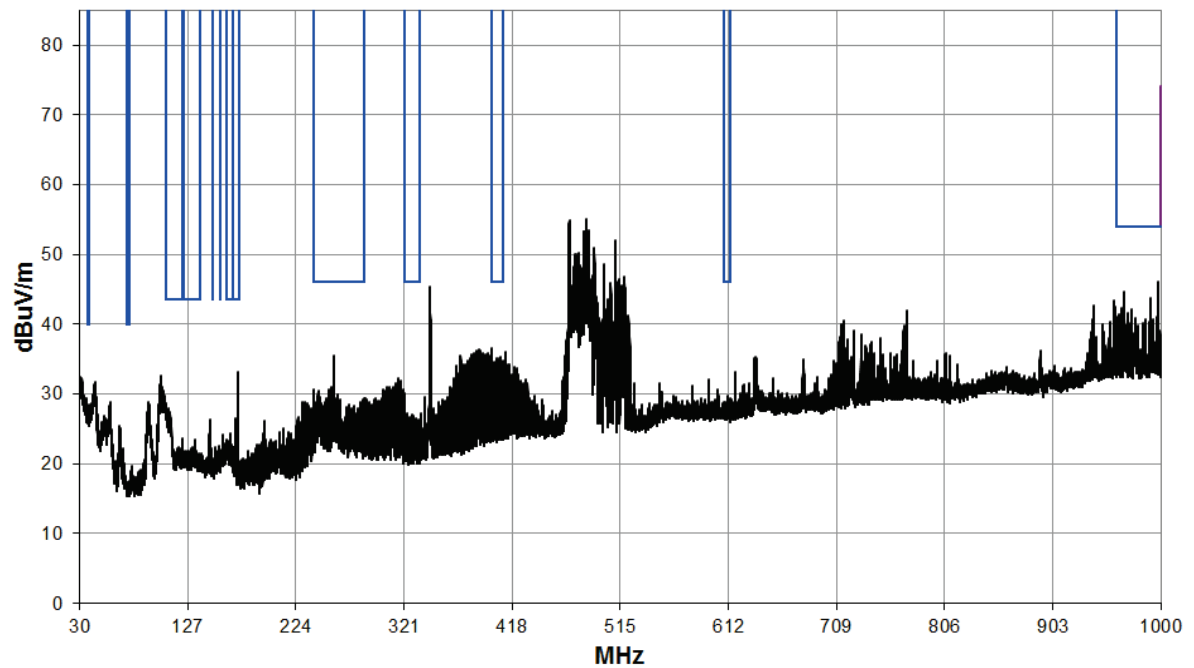


18 GHz to 26.5 GHz

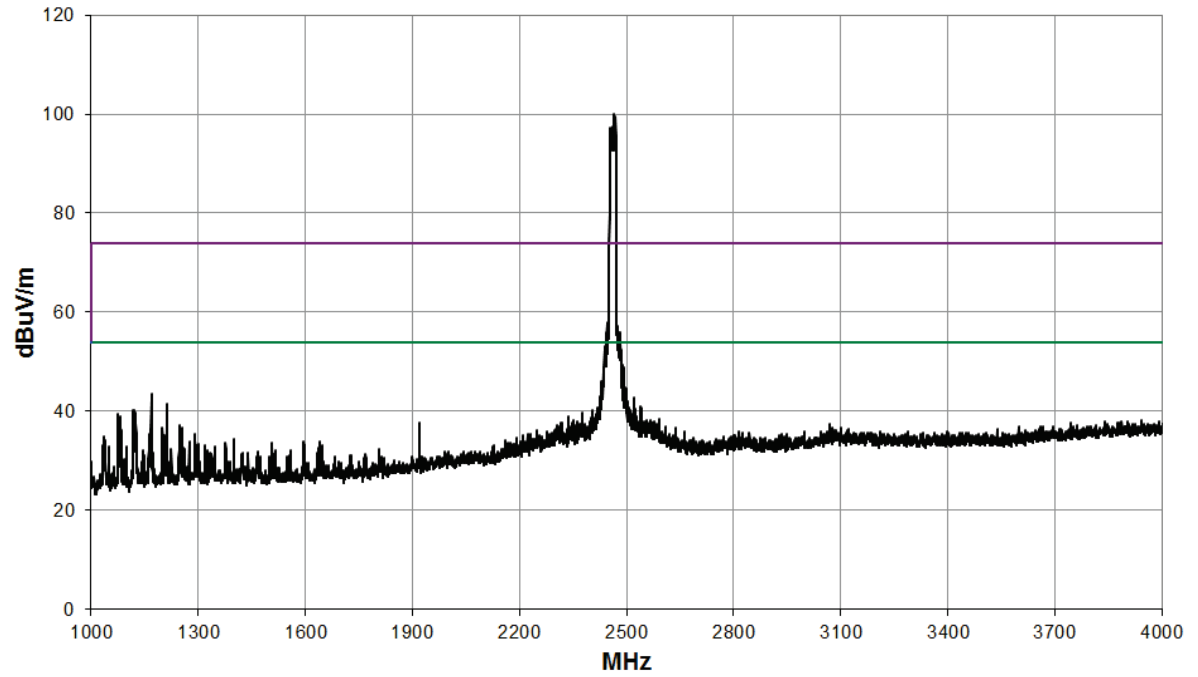


MIMO Mode: 802.11n20; Channel: CH11; Frequency: 2462 MHz; MCS index: MCS8; Power Setting: 13;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4922.7	-1.7	5.5	33.3	0.0	0.0	0.0	37.1	71.6	500
PK	4923.3	19.8	5.5	33.3	0.0	0.0	0.0	58.6	851.1	5000
AV	12308.6	0.2	9.1	30.7	0.0	0.0	0.0	40.0	100.0	500
PK	12327.6	15.8	9.1	30.7	0.0	0.0	0.0	55.6	602.6	5000

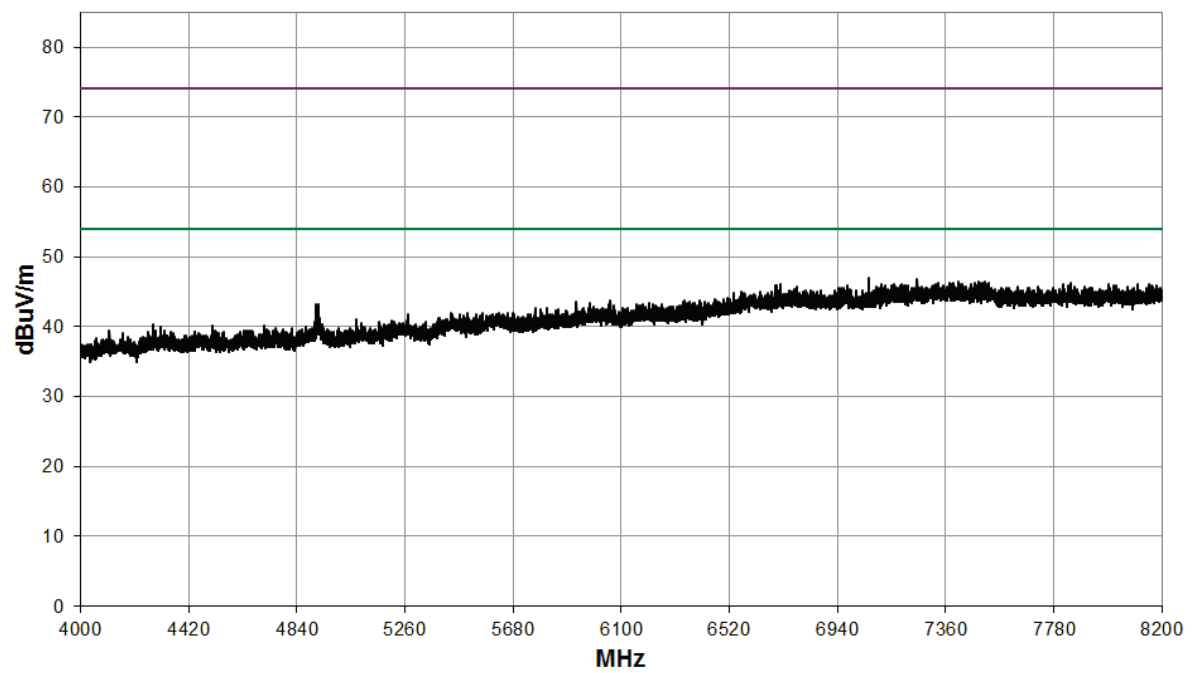
30 MHz to 1 GHz



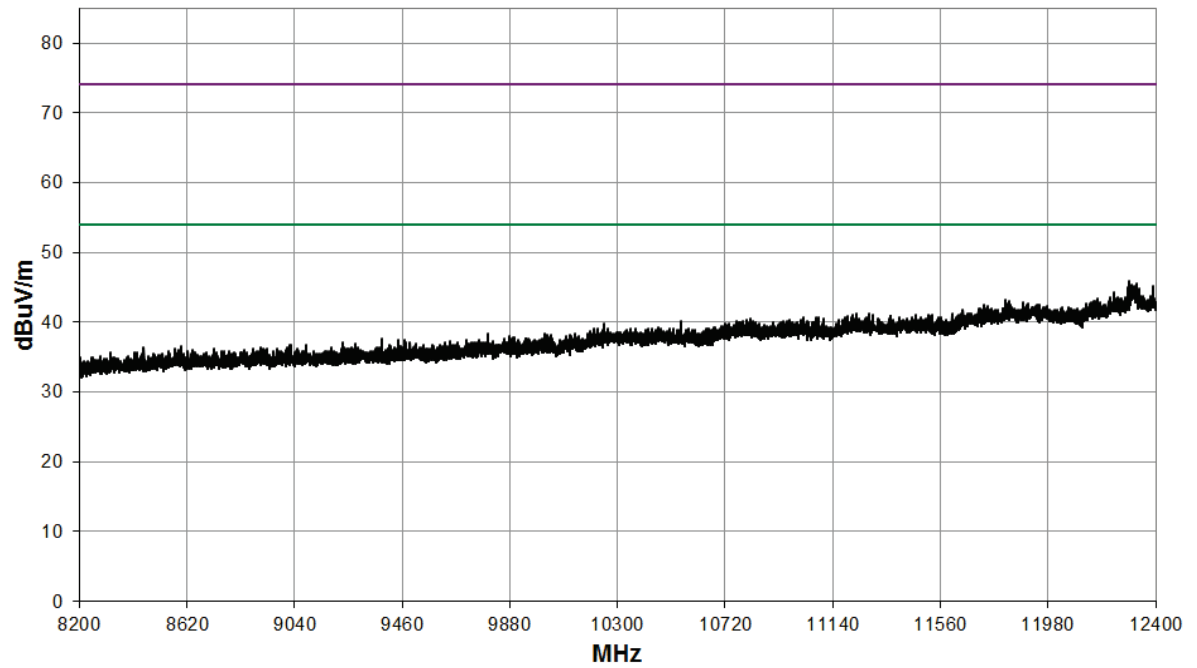
1 GHz to 4 GHz



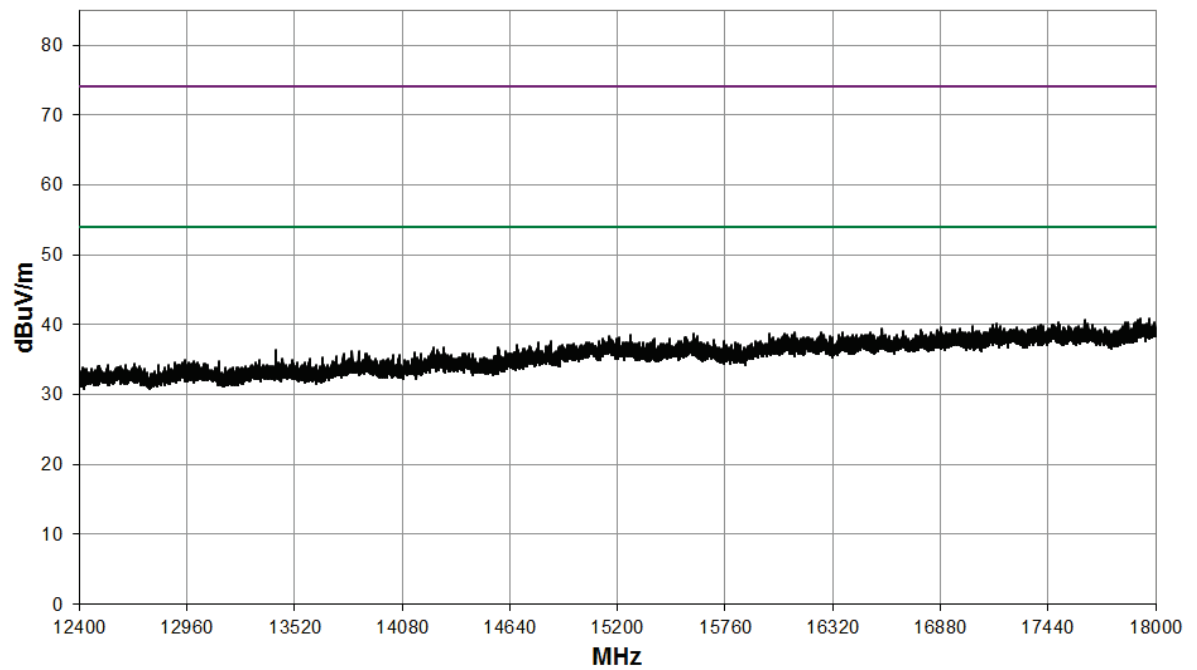
4 GHz to 8.2 GHz



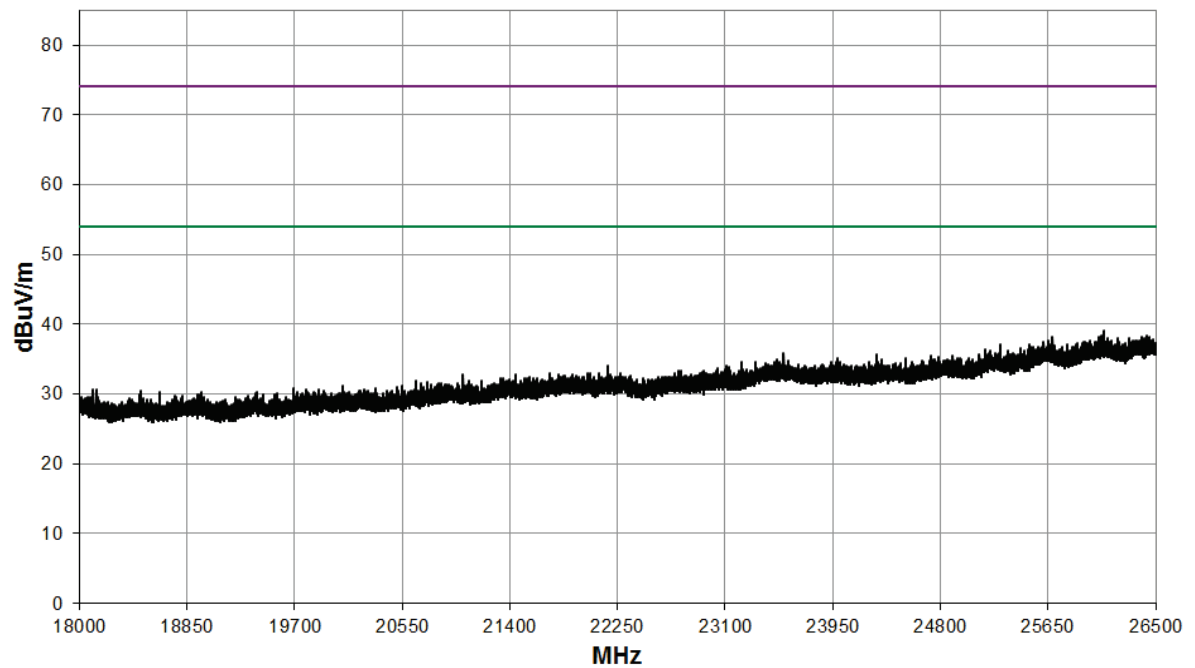
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



18 GHz to 26.5 GHz



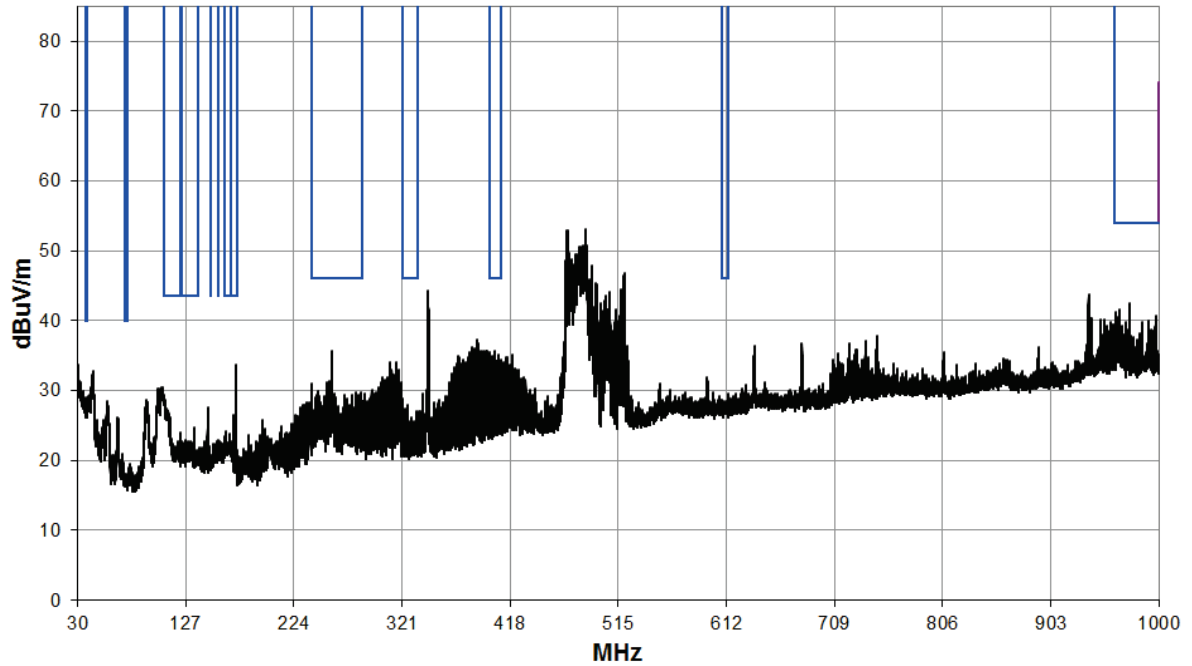
Band Edge

Element

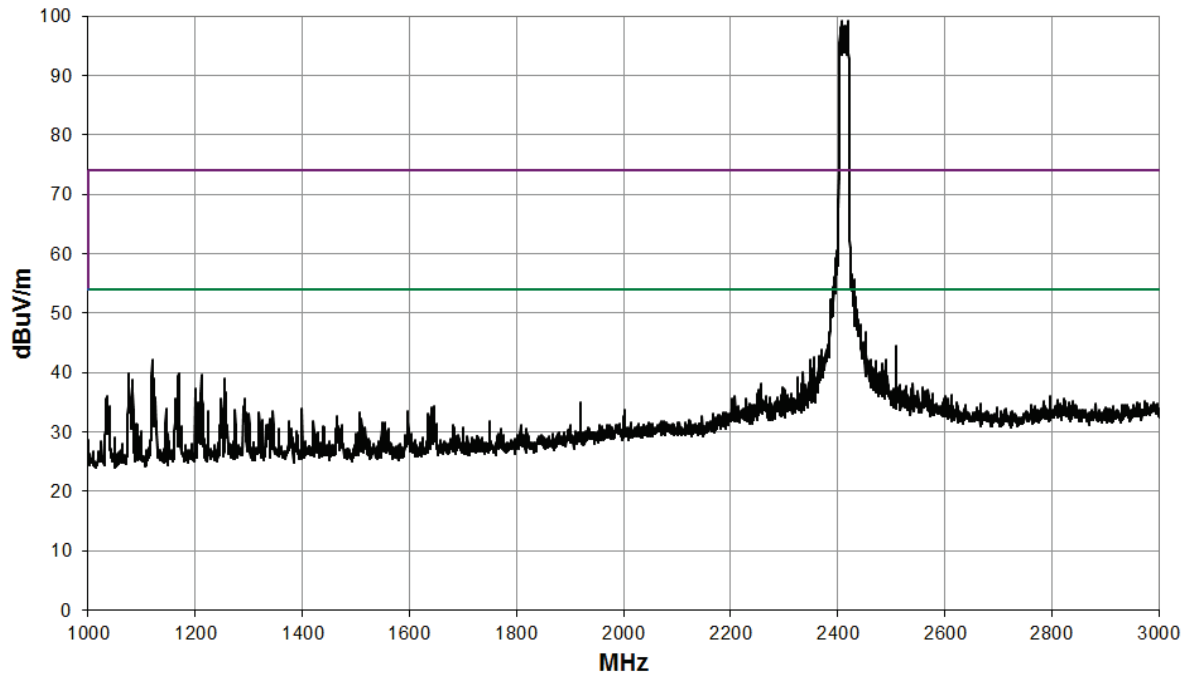


MIMO Mode: 802.11n20; Channel: CH1; Frequency: 2412 MHz; MCS index: MCS15; Power Setting: 13;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	12061.4	0.9	6.0	30.4	0.0	0.0	0.0	36.8	69.2	500

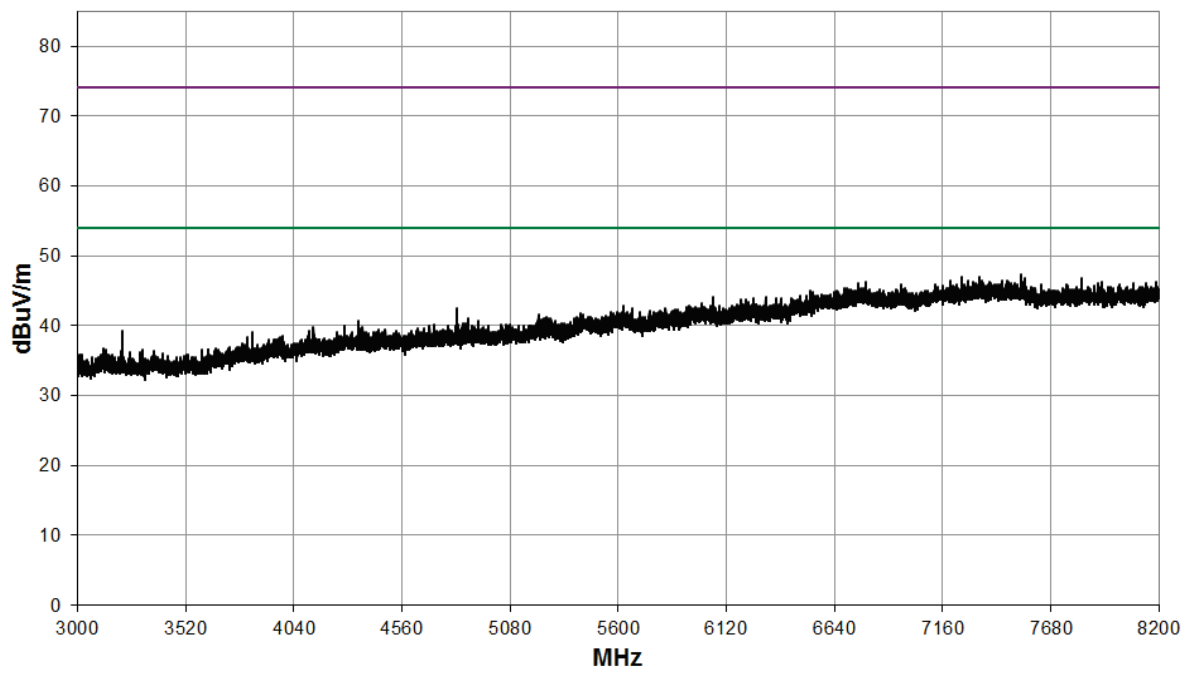
30 MHz to 1 GHz



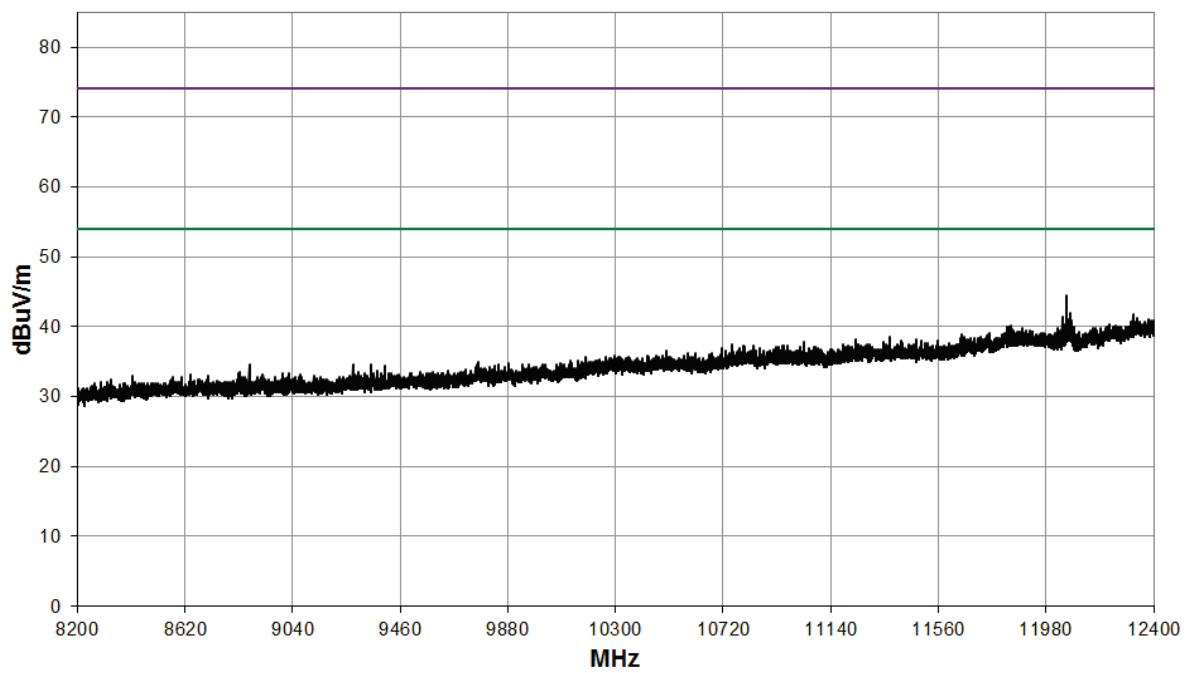
1 GHz to 3 GHz



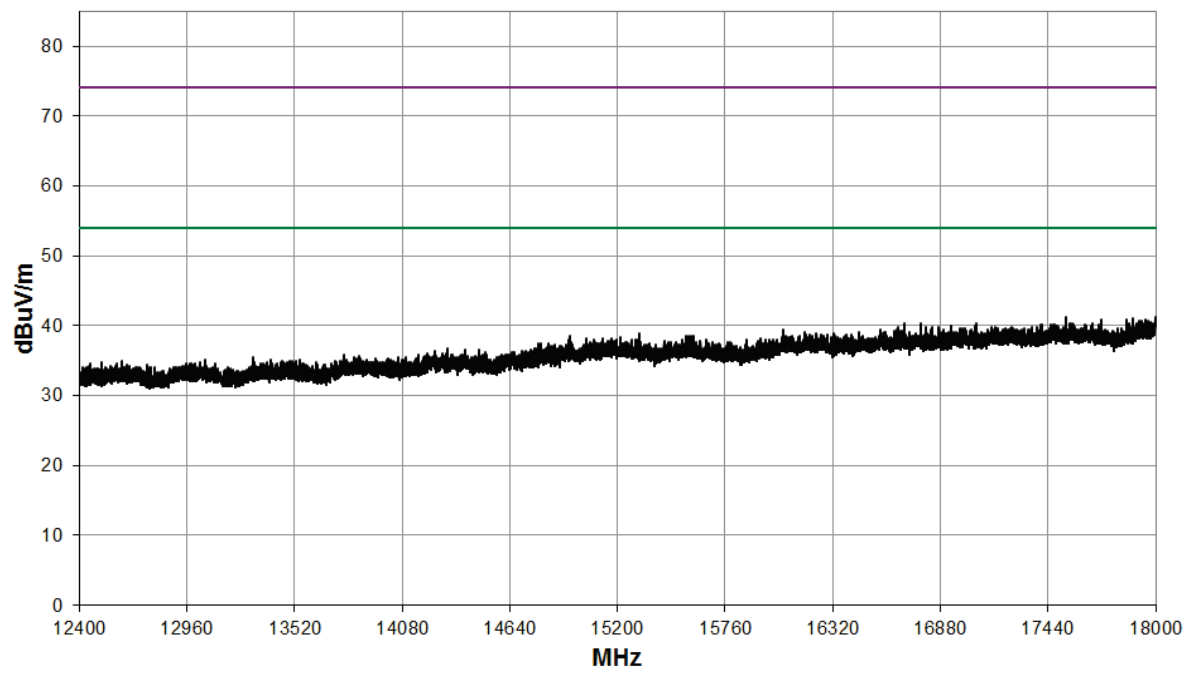
3 GHz to 8.2 GHz



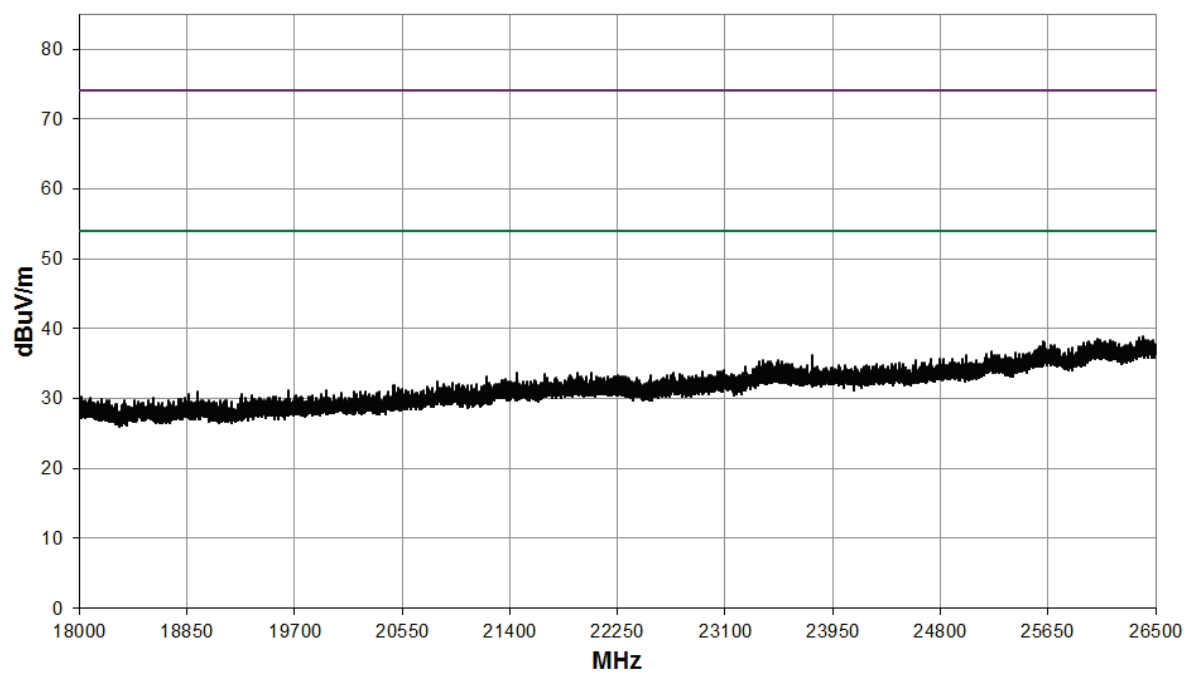
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

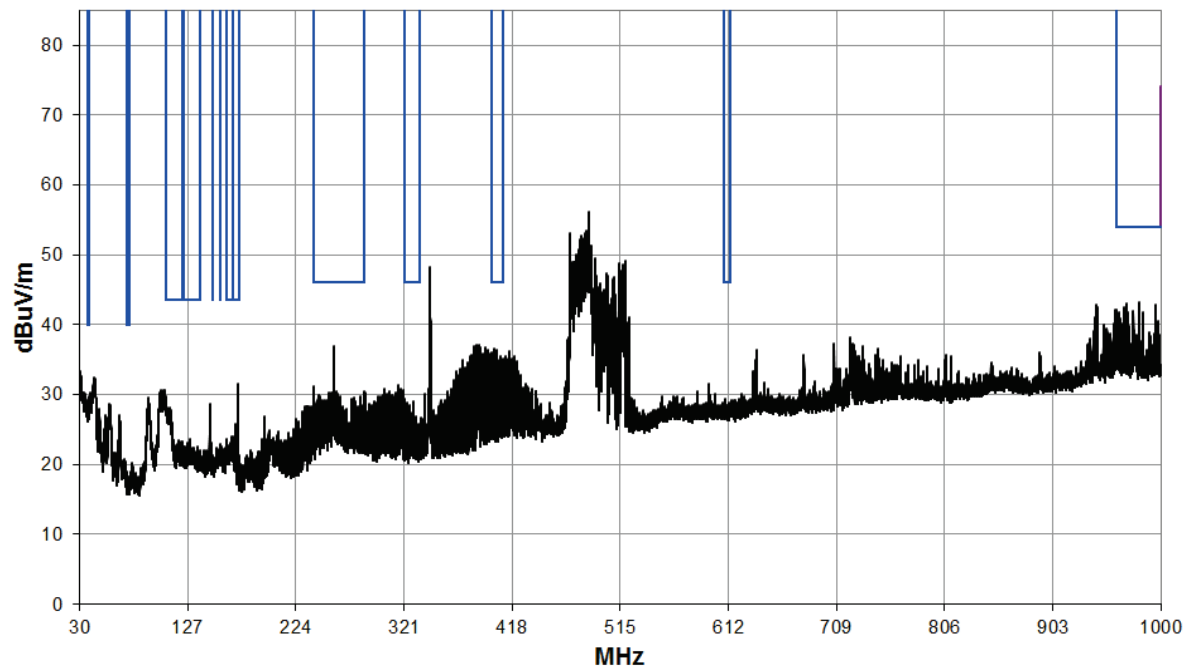


18 GHz to 26.5 GHz

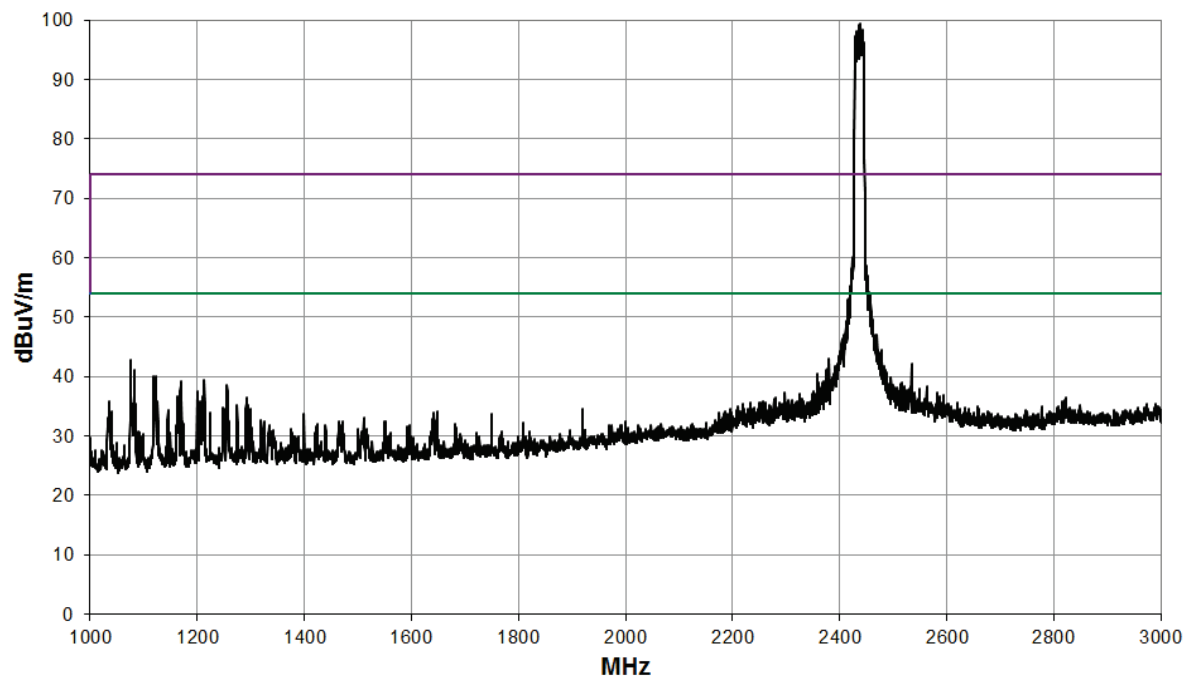


MIMO Mode: 802.11n20; Channel: CH6; Frequency: 2437 MHz; MCS index: MCS15; Power Setting: 13;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	12177.9	21.9	9.1	30.4	0.0	0.0	-3.5	57.9	785.3	5000
AV	12182.5	5	9.1	30.3	0.0	0.0	-3.5	40.9	110.9	500

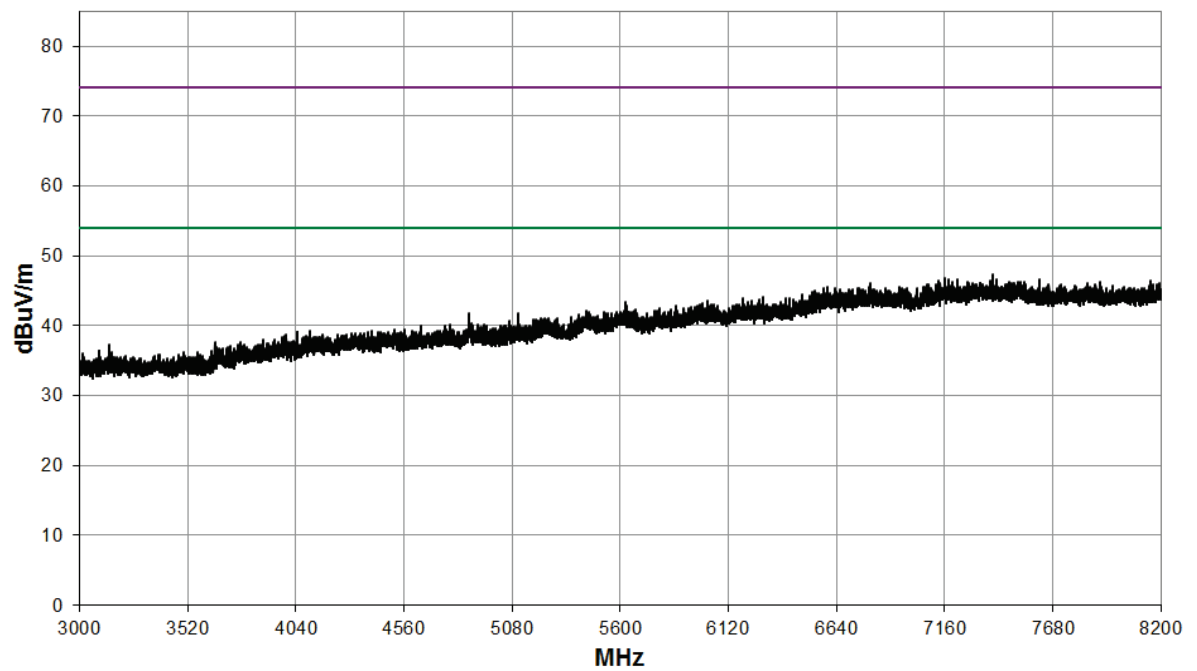
30 MHz to 1 GHz



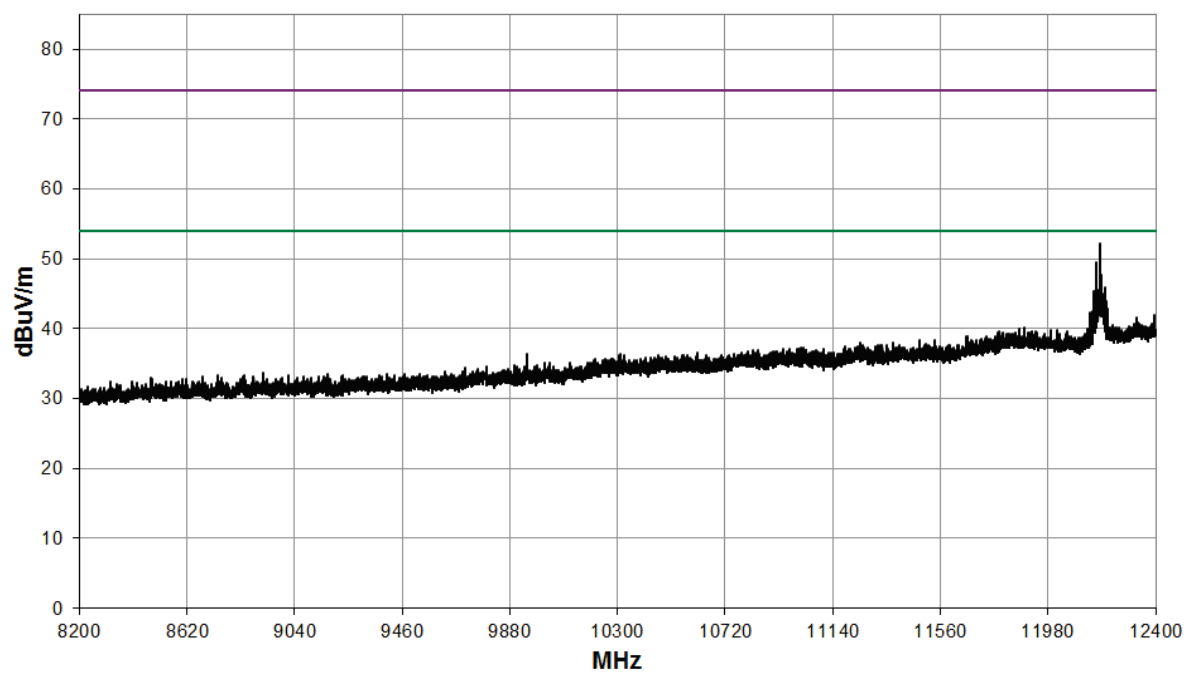
1 GHz to 3 GHz



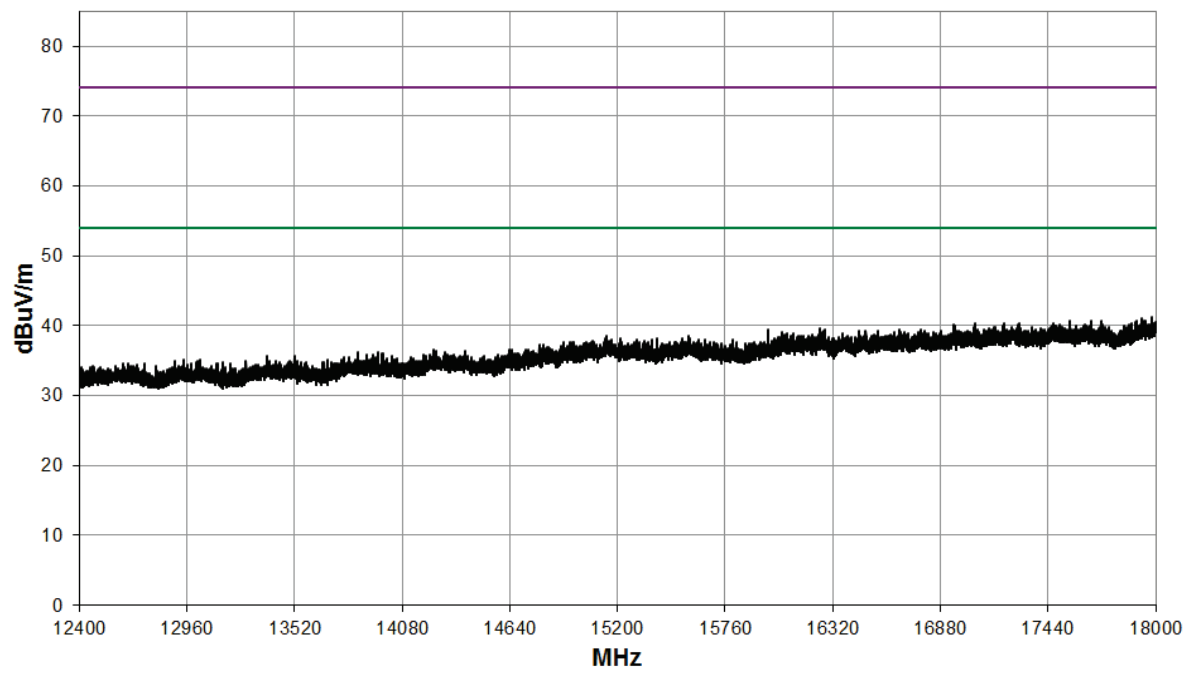
3 GHz to 8.2 GHz



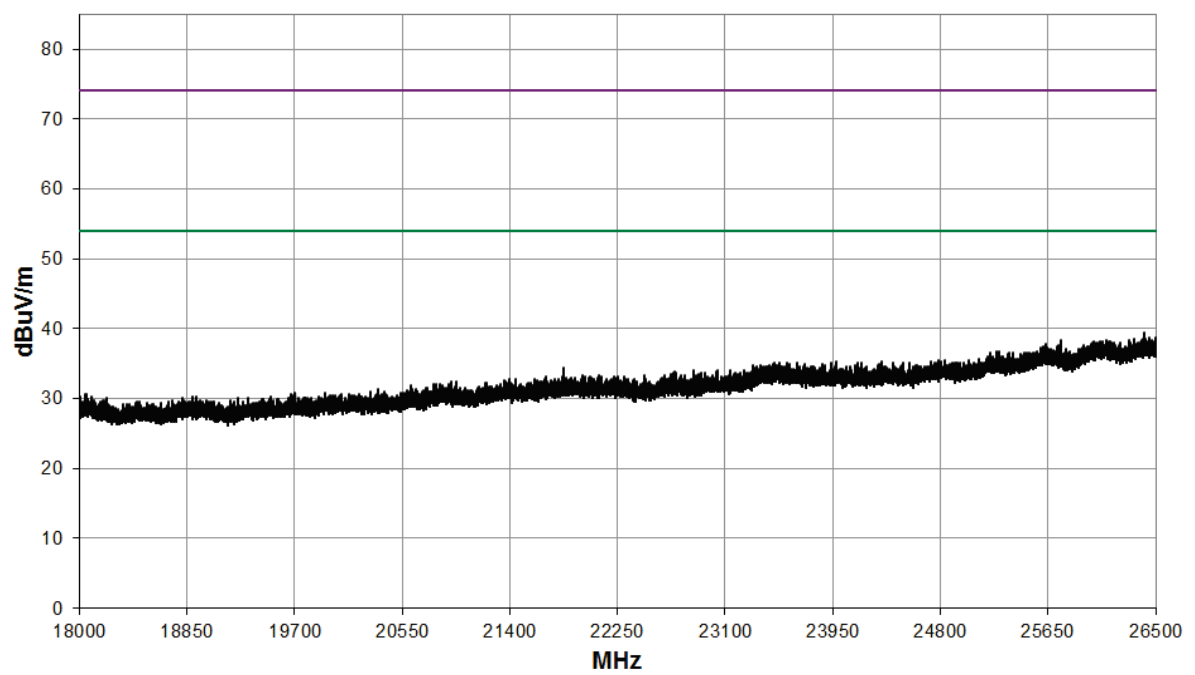
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

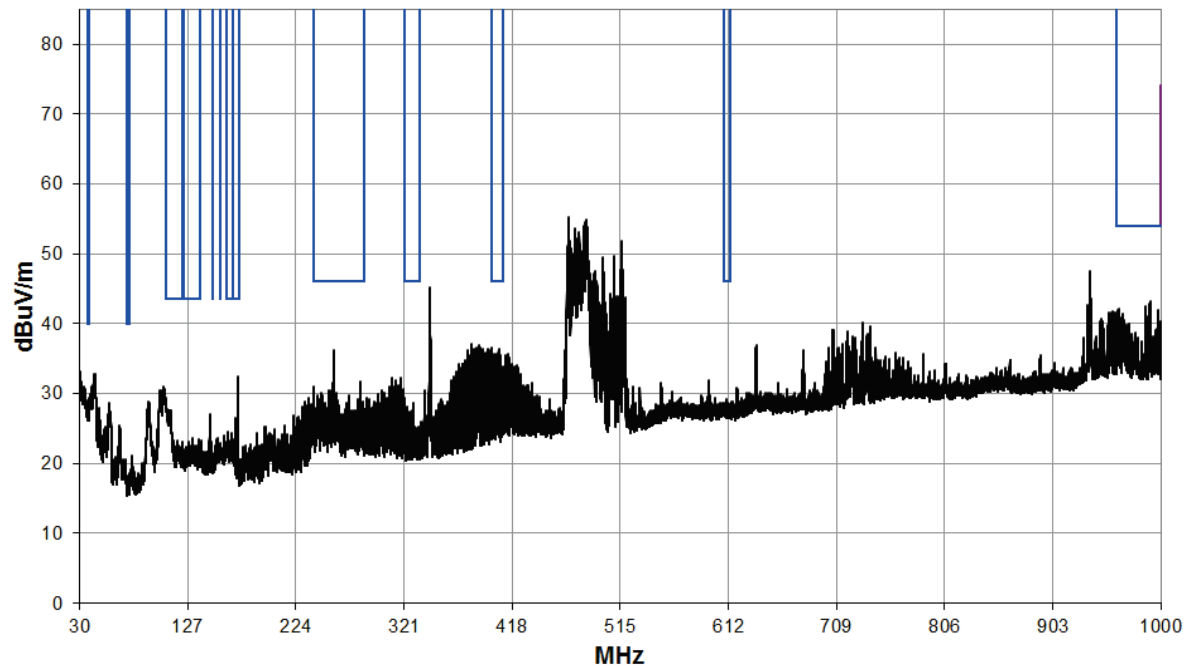


18 GHz to 26.5 GHz

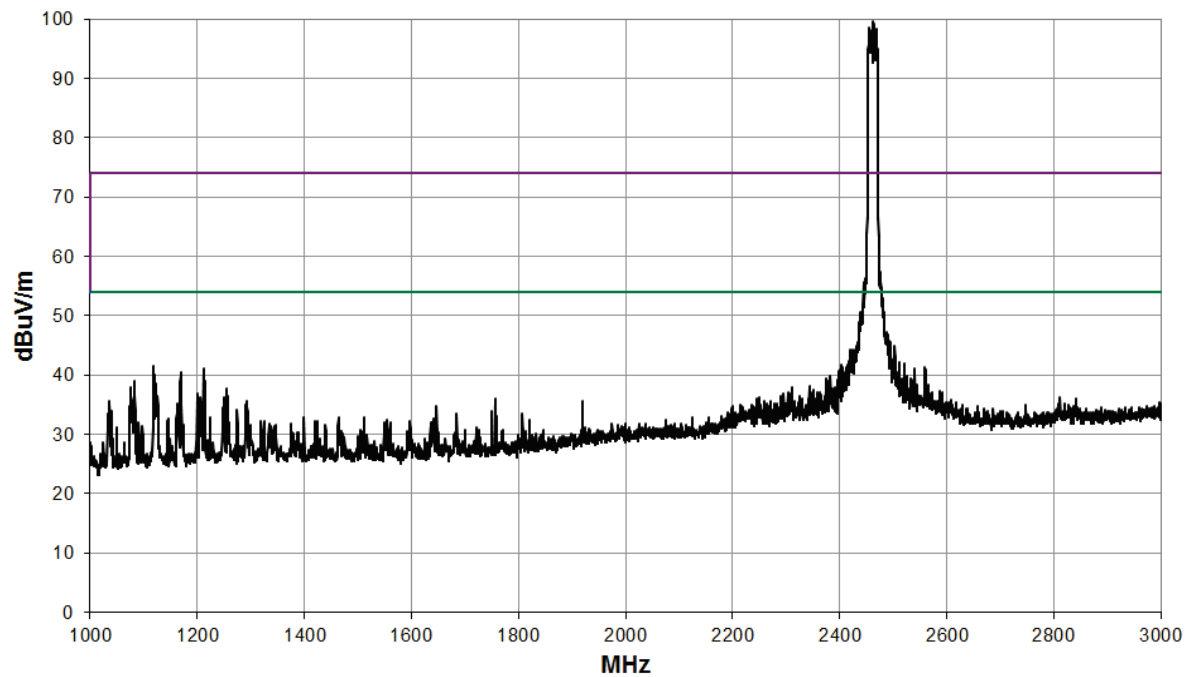


MIMO Mode: 802.11n20; Channel: CH11; Frequency: 2462 MHz; MCS index: MCS15; Power Setting: 13;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	12308.7	3.2	9.1	30.7	0.0	0.0	-3.5	39.5	94.4	500
PK	12308.8	19.5	9.1	30.7	0.0	0.0	-3.5	55.8	616.6	5000

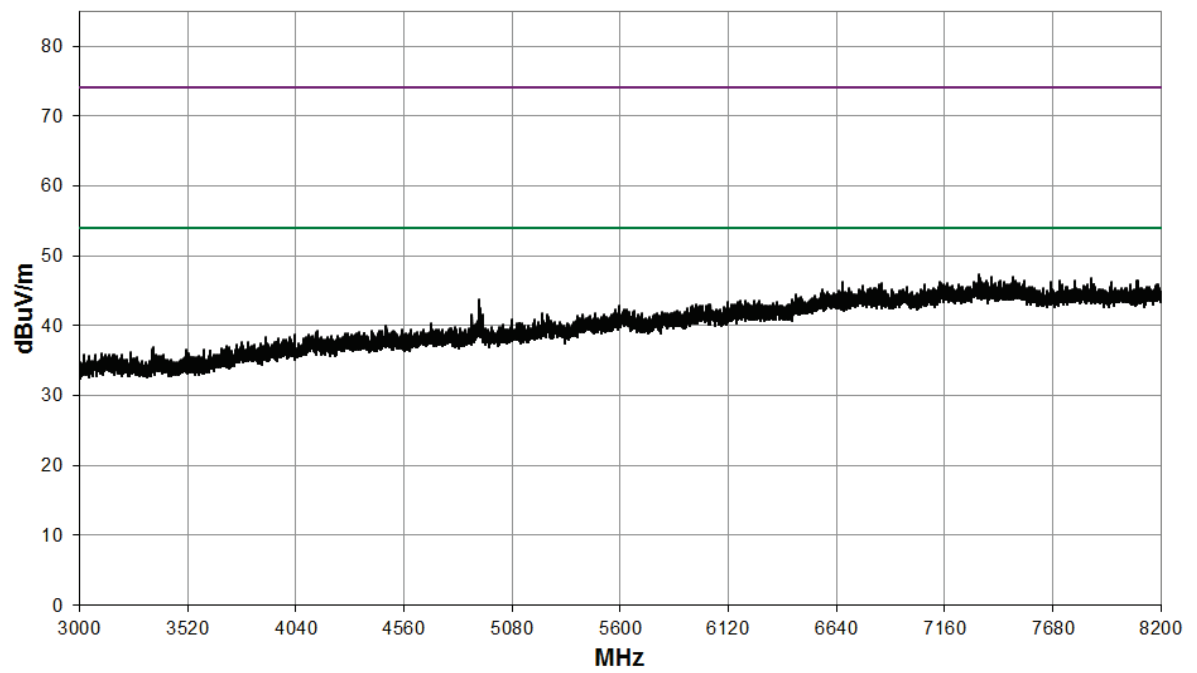
30 MHz to 1 GHz



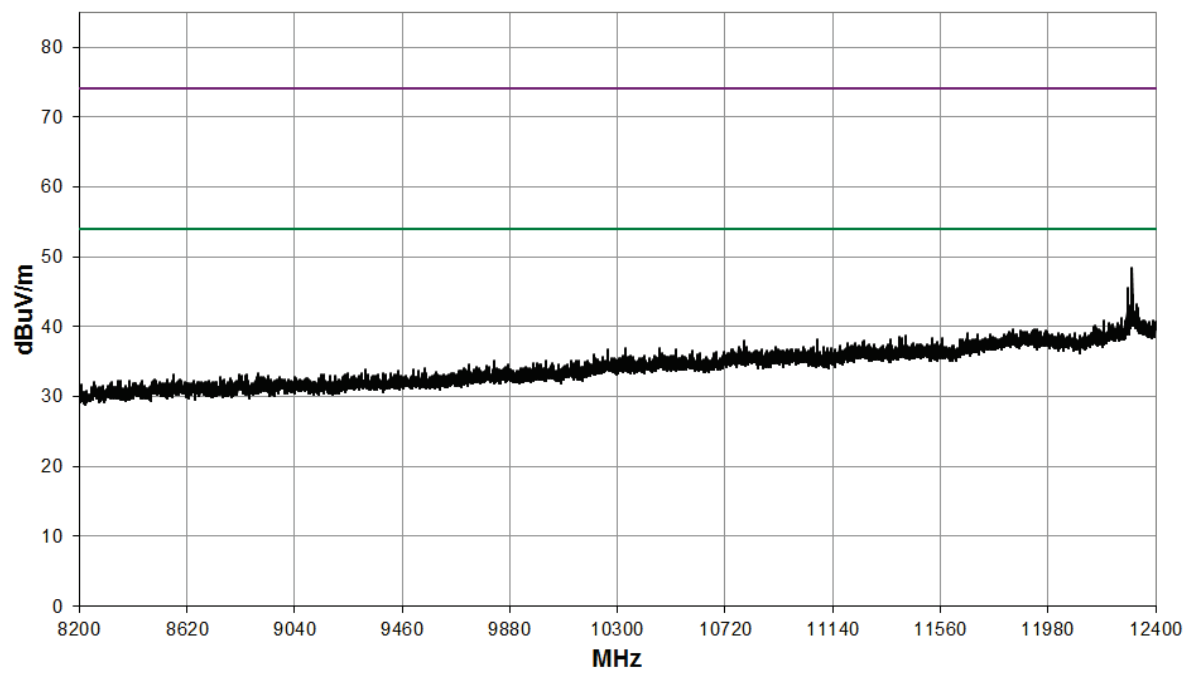
1 GHz to 3 GHz



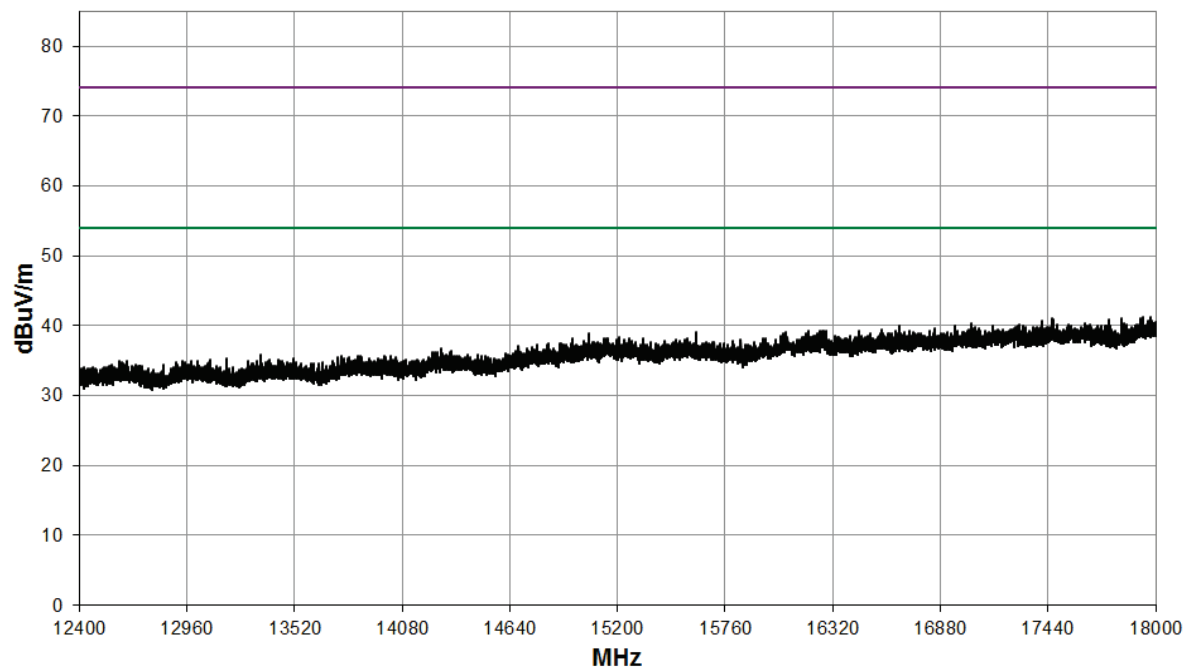
3 GHz to 8.2 GHz



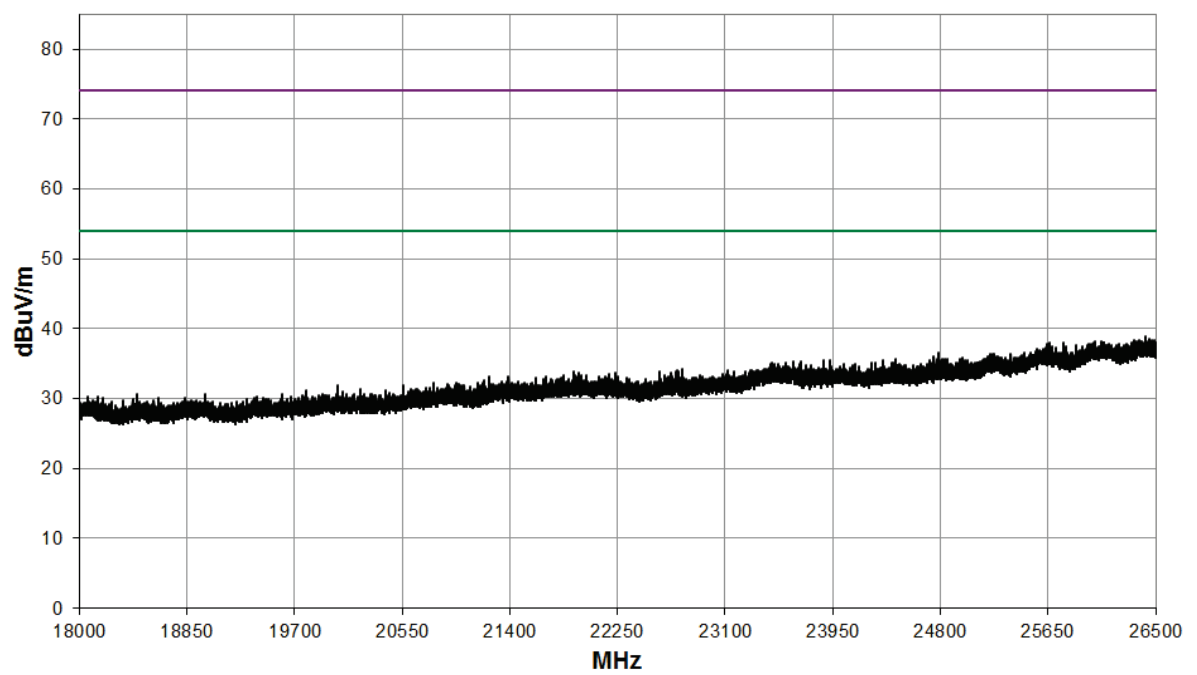
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

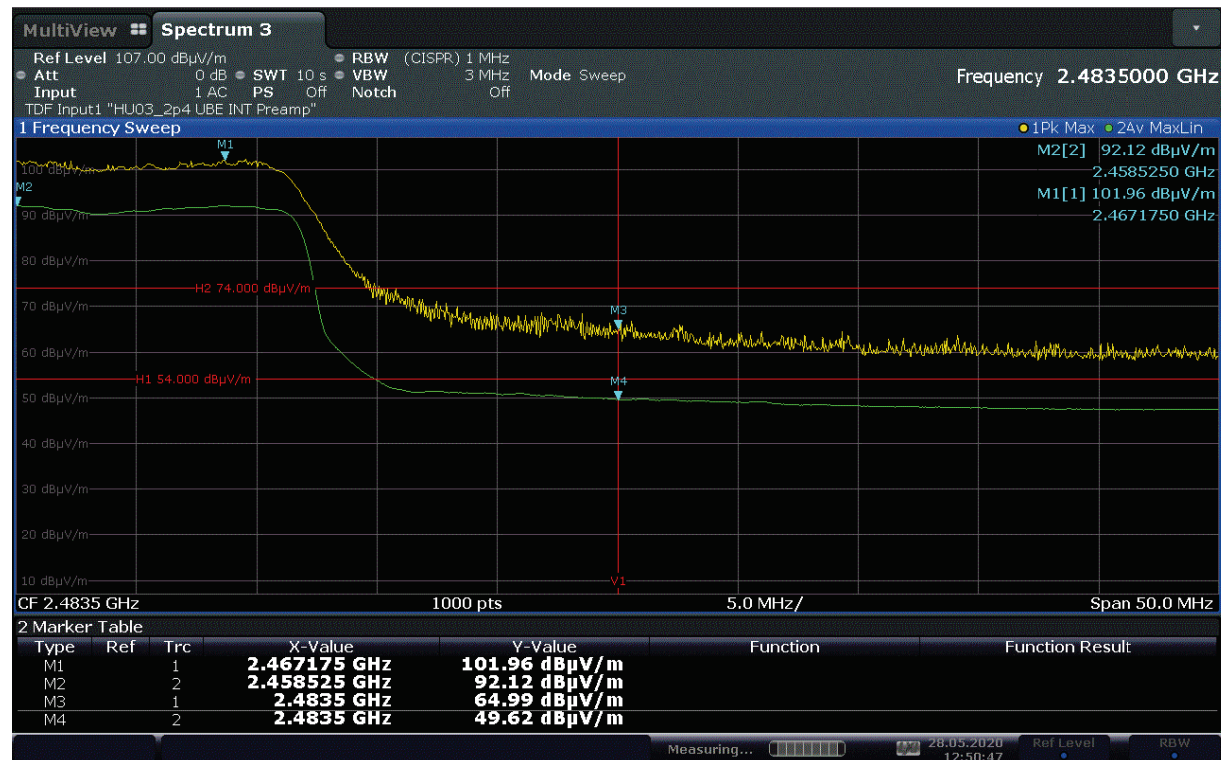


18 GHz to 26.5 GHz



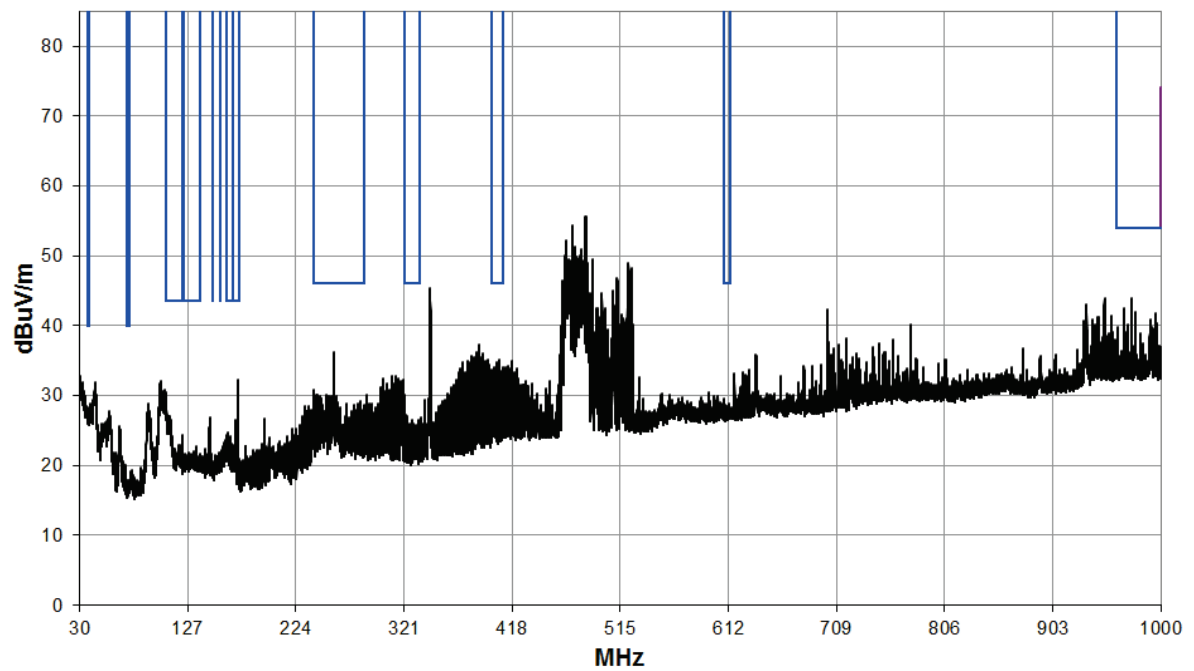
Band Edge

Element

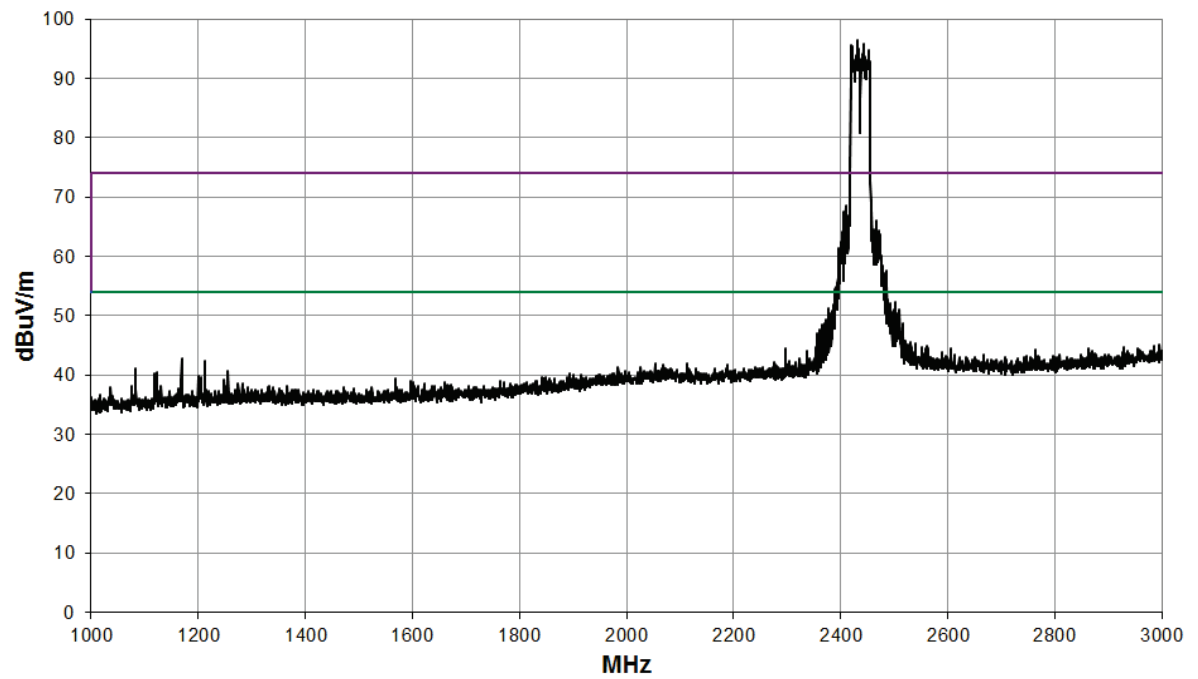


MIMO Mode: 802.11n40; Channel: CH3; Frequency: 2422 MHz; MCS index: MCS8; Power Setting: 12; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
AV	4837.2	-3.1	5.4	33.3	0.0	0.0	0.0	35.6	60.3	500
PK	4851.1	16.5	5.4	33.3	0.0	0.0	0.0	55.2	575.4	5000
AV	12120.7	0.3	9.0	30.2	0.0	0.0	0.0	39.5	94.4	500
PK	12120.9	16.0	9.0	30.2	0.0	0.0	0.0	55.2	575.4	5000

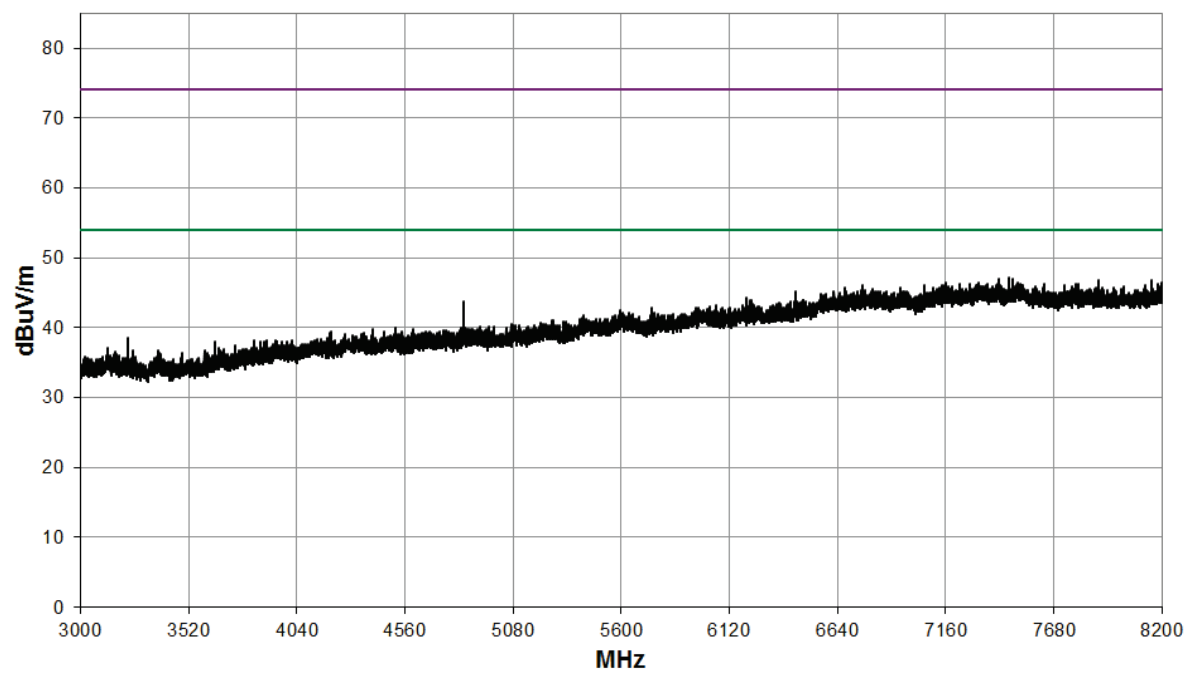
30 MHz to 1 GHz



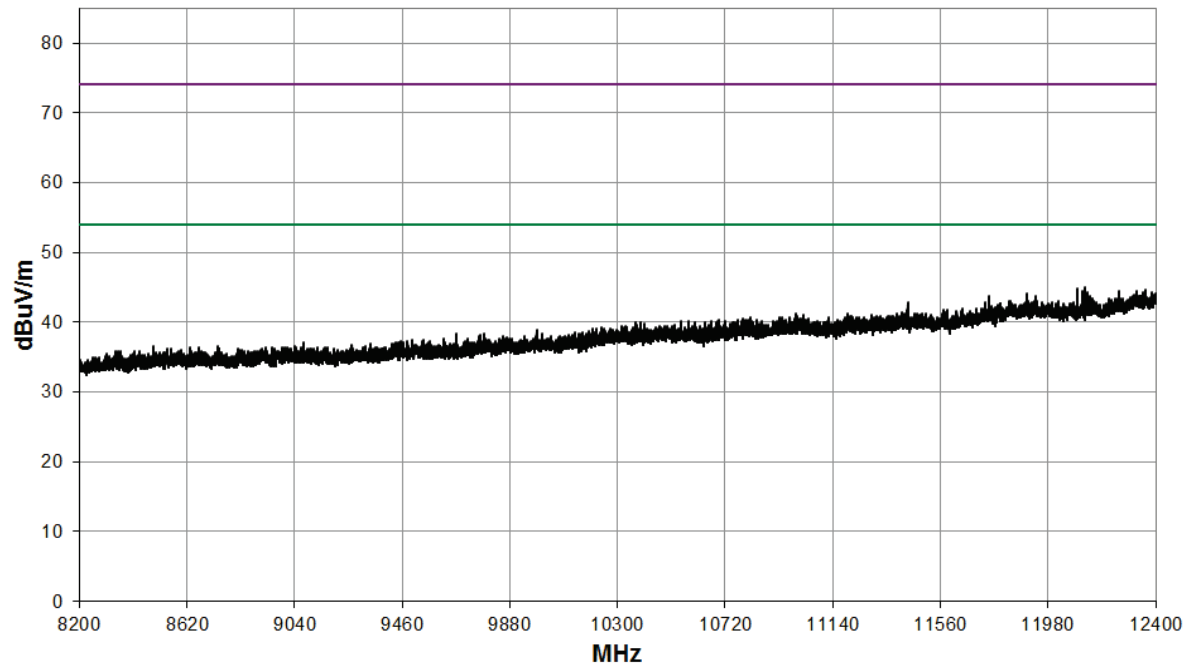
1 GHz to 3 GHz



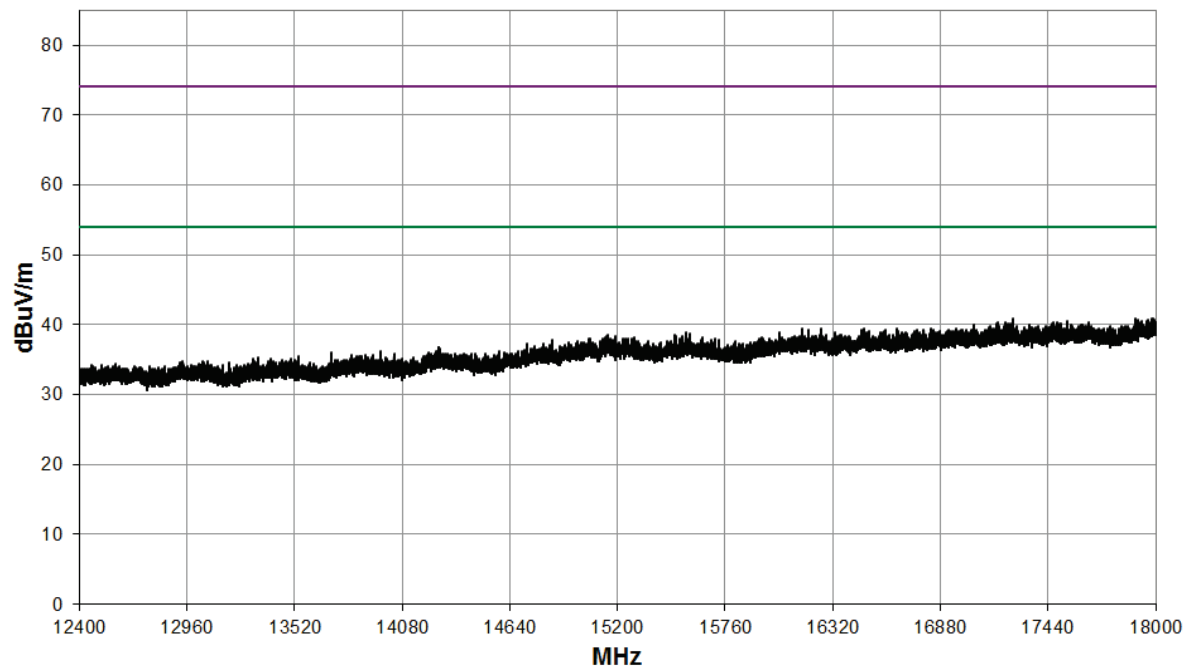
3 GHz to 8.2 GHz



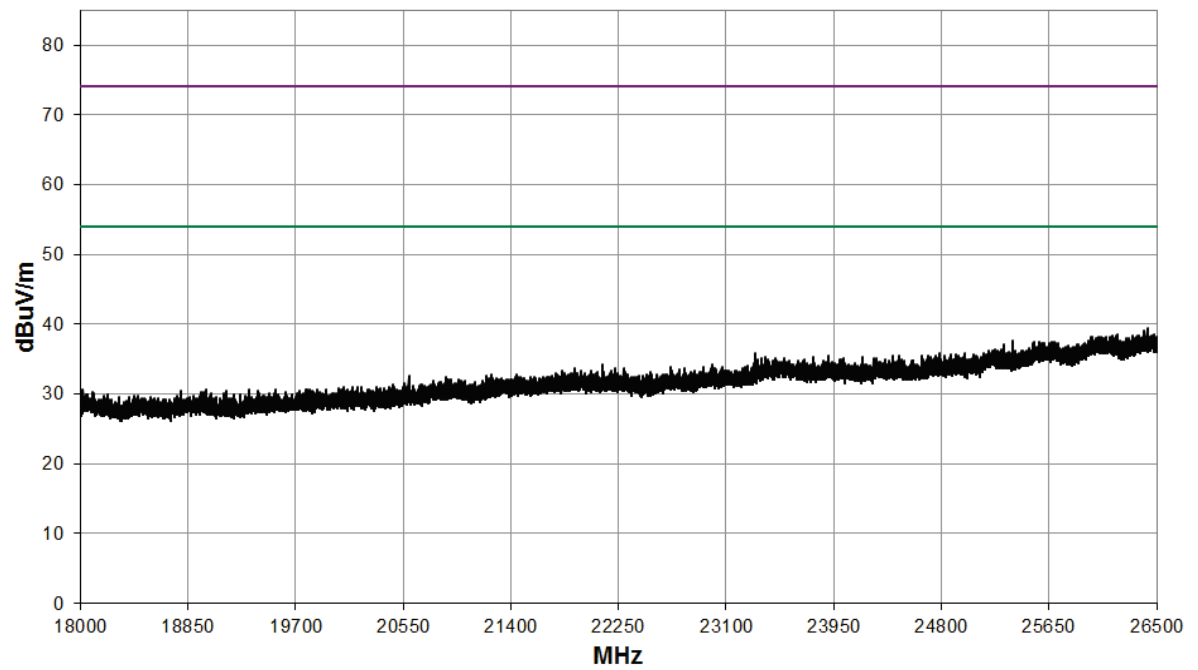
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

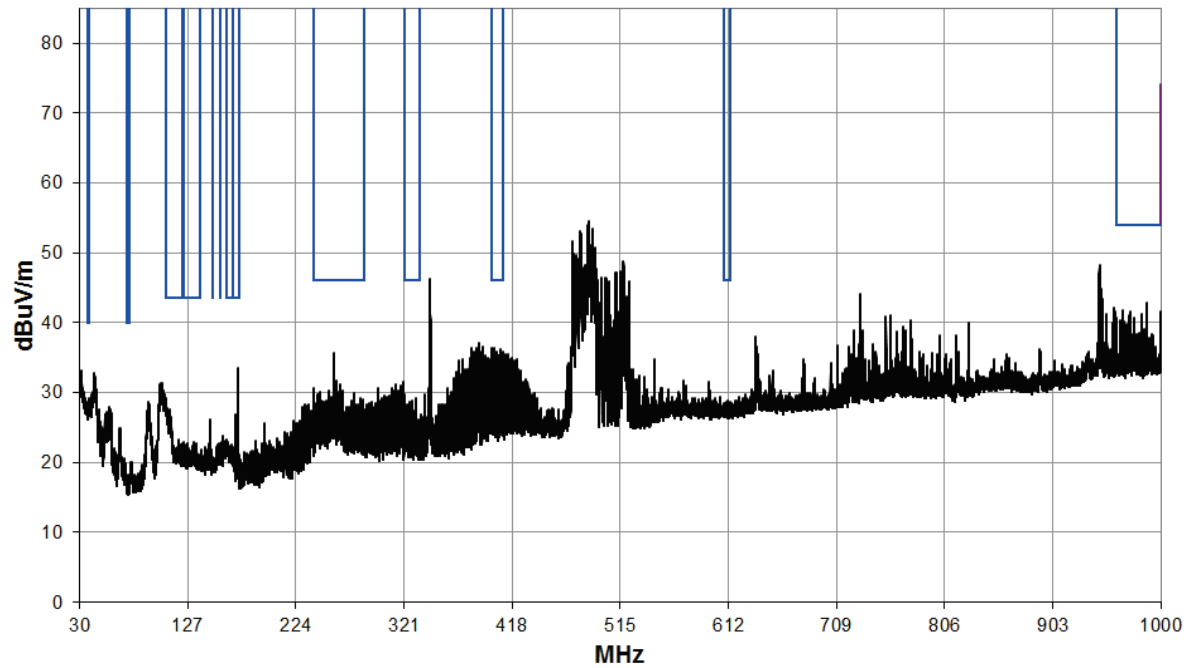


18 GHz to 26.5 GHz

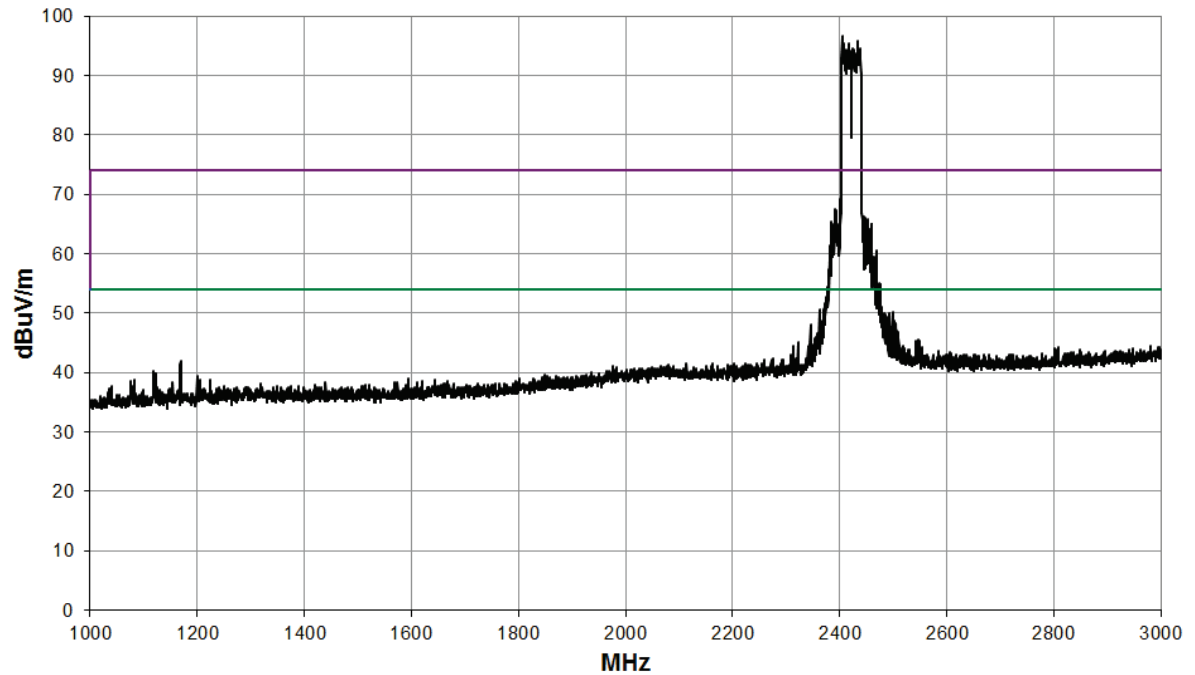


MIMO Mode: 802.11n40; Channel: CH6; Frequency: 2437 MHz; MCS index: MCS8; Power Setting: 12; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500

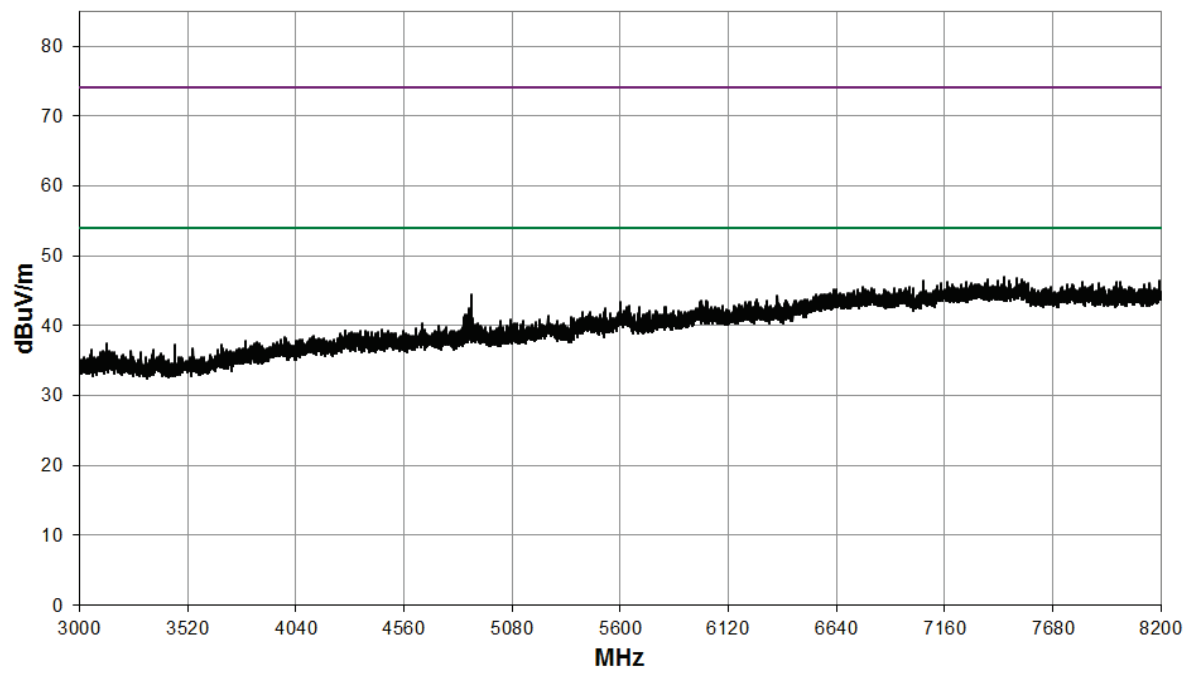
30 MHz to 1 GHz



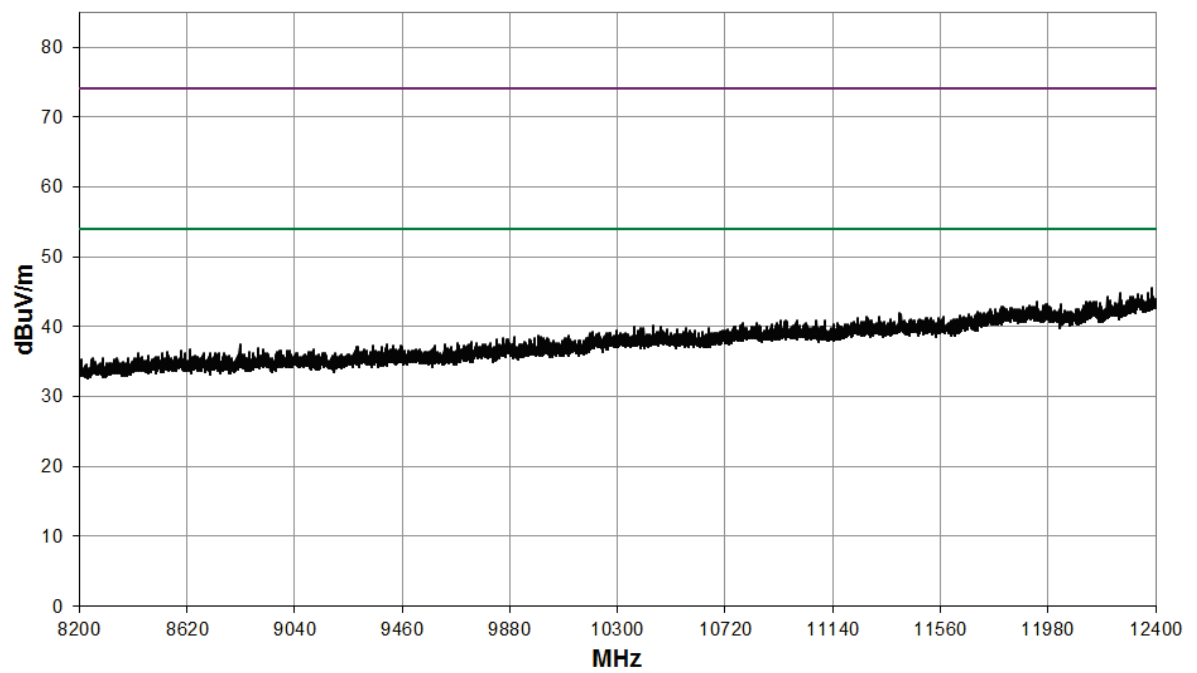
1 GHz to 3 GHz



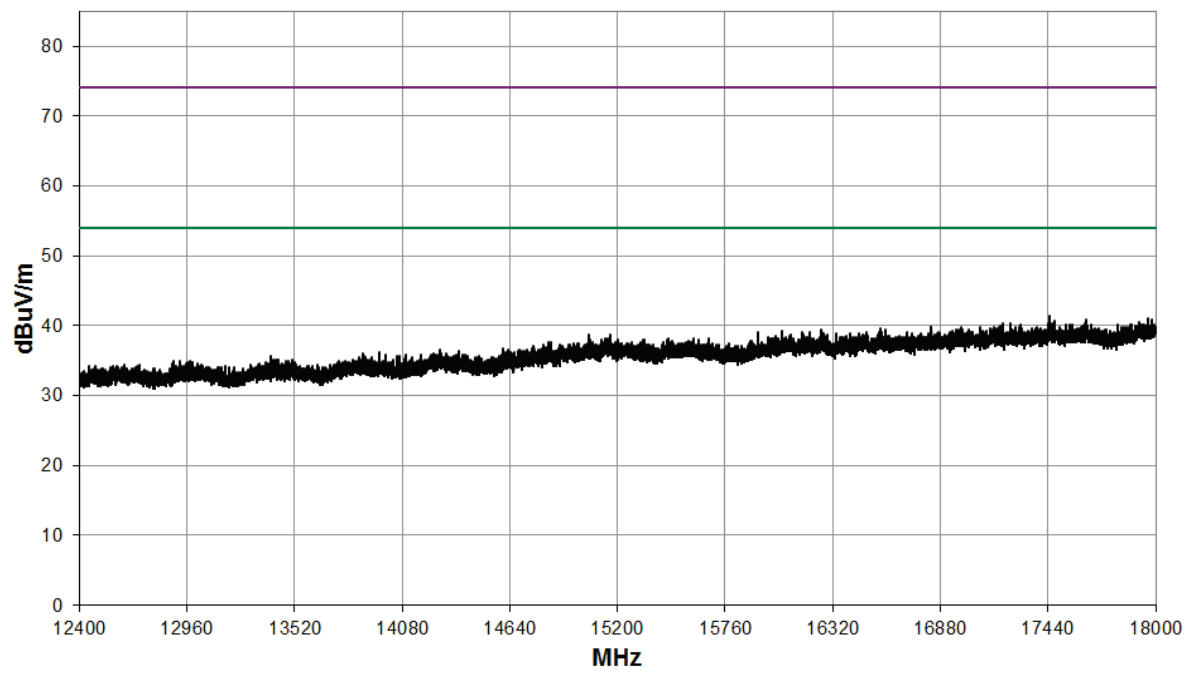
3 GHz to 8.2 GHz



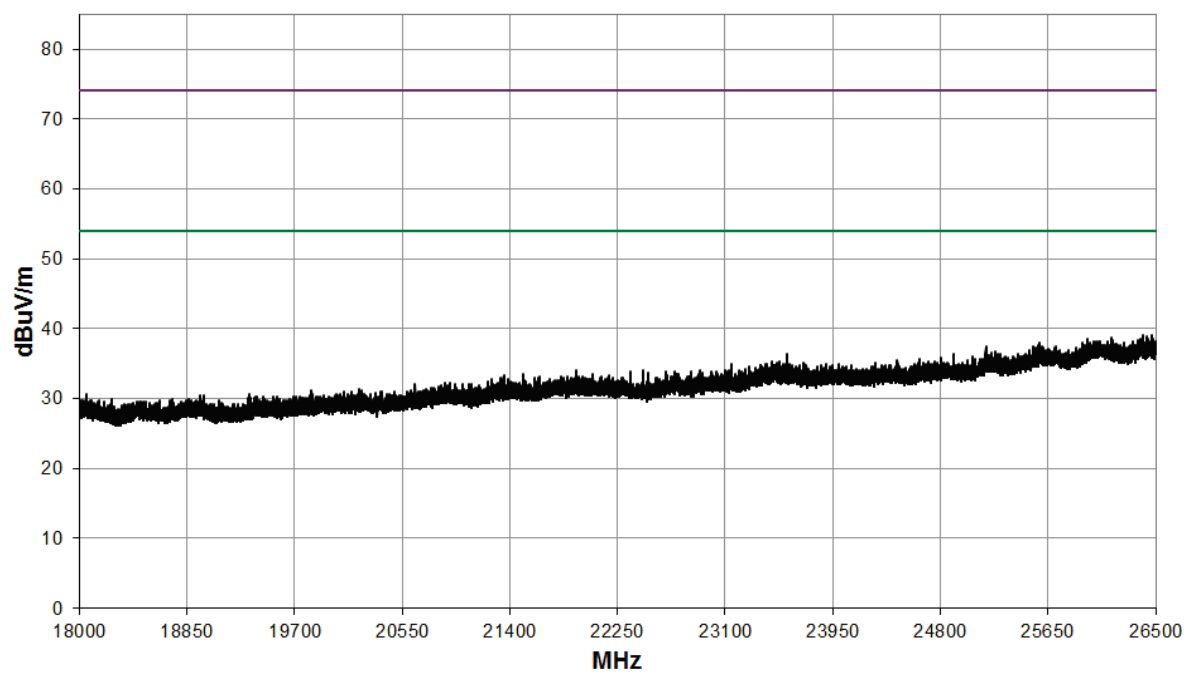
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

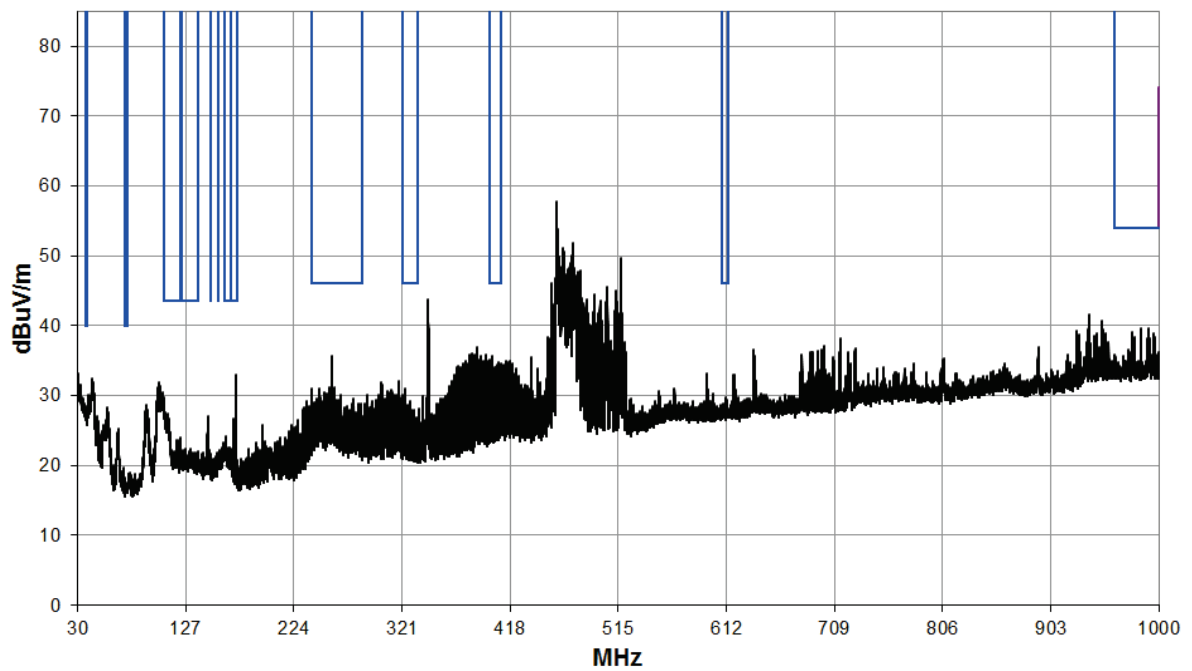


18 GHz to 26.5 GHz

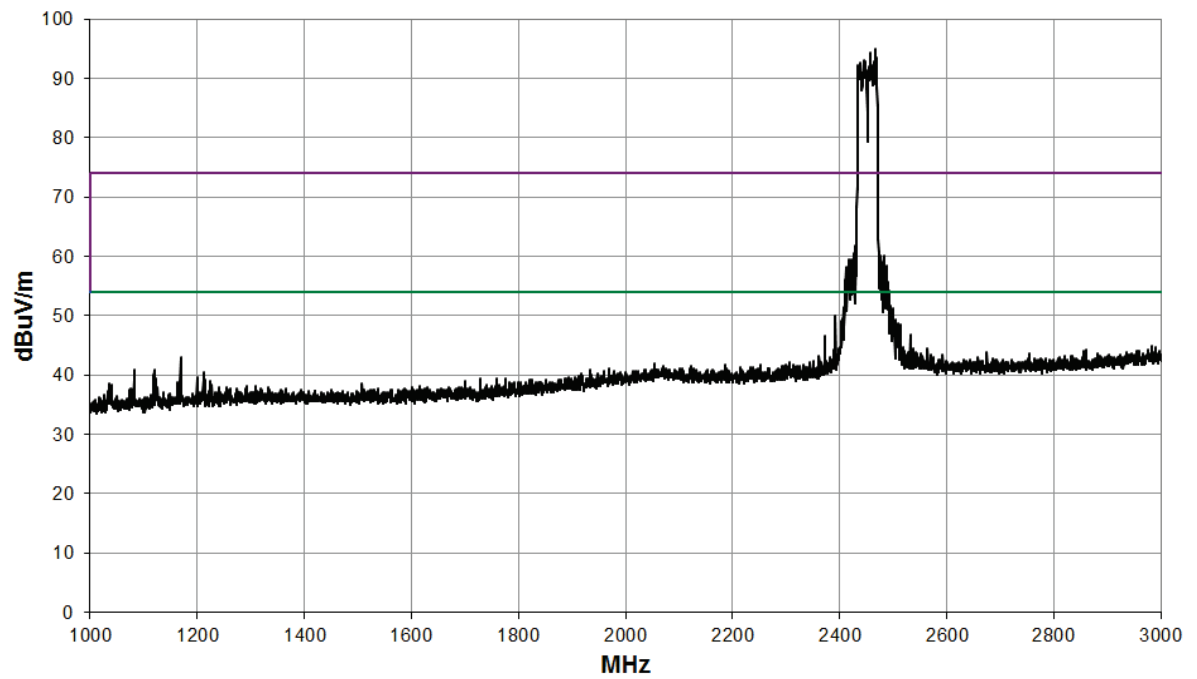


MIMO Mode: 802.11n40; Channel: CH9; Frequency: 2452 MHz; MCS index: MCS8; Power Setting: 12; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	4883.1	15.5	5.4	33.3	0.0	0.0	0.0	54.2	512.9	5000
AV	4887.5	-3.6	5.4	33.3	0.0	0.0	0.0	35.1	56.9	500
PK	12393.1	14.9	9.2	30.9	0.0	0.0	0.0	55.0	562.3	5000
AV	12393.7	-1.2	9.2	30.9	0.0	0.0	0.0	38.9	88.1	500

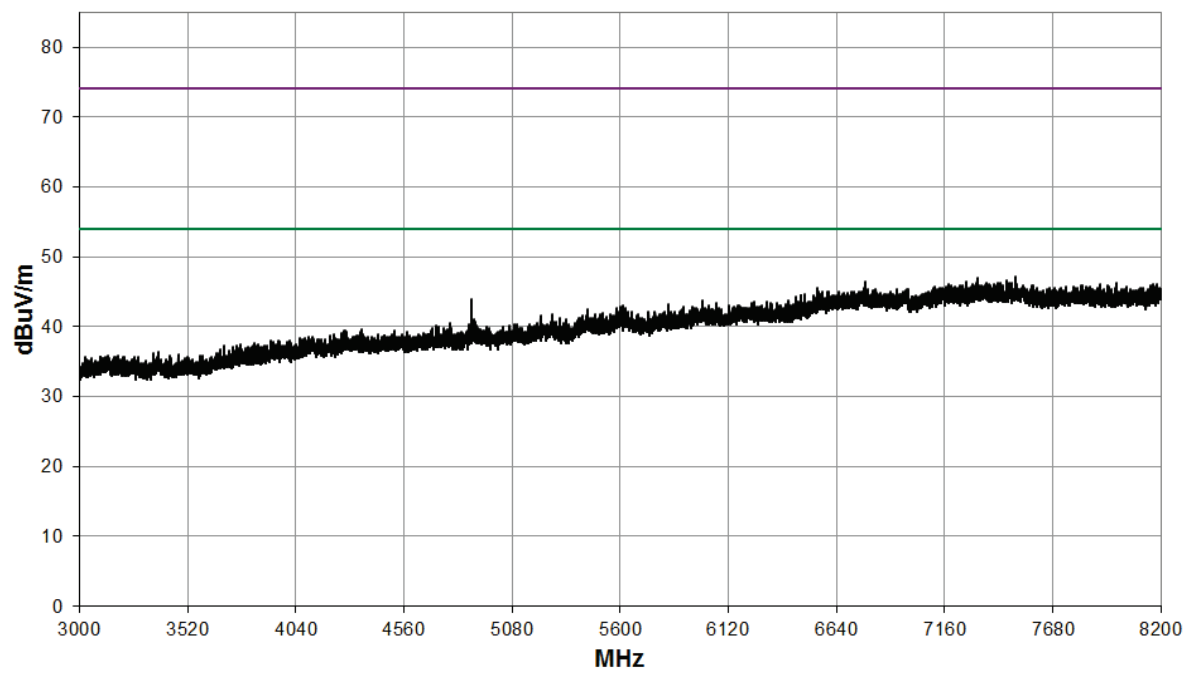
30 MHz to 1 GHz



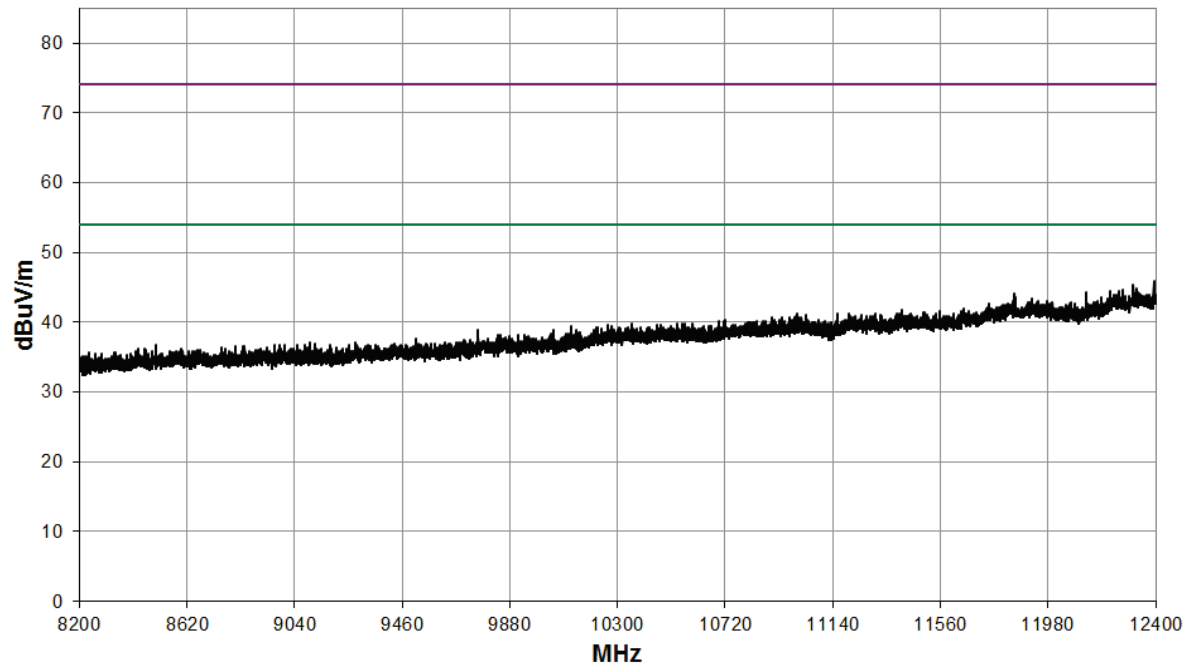
1 GHz to 3 GHz



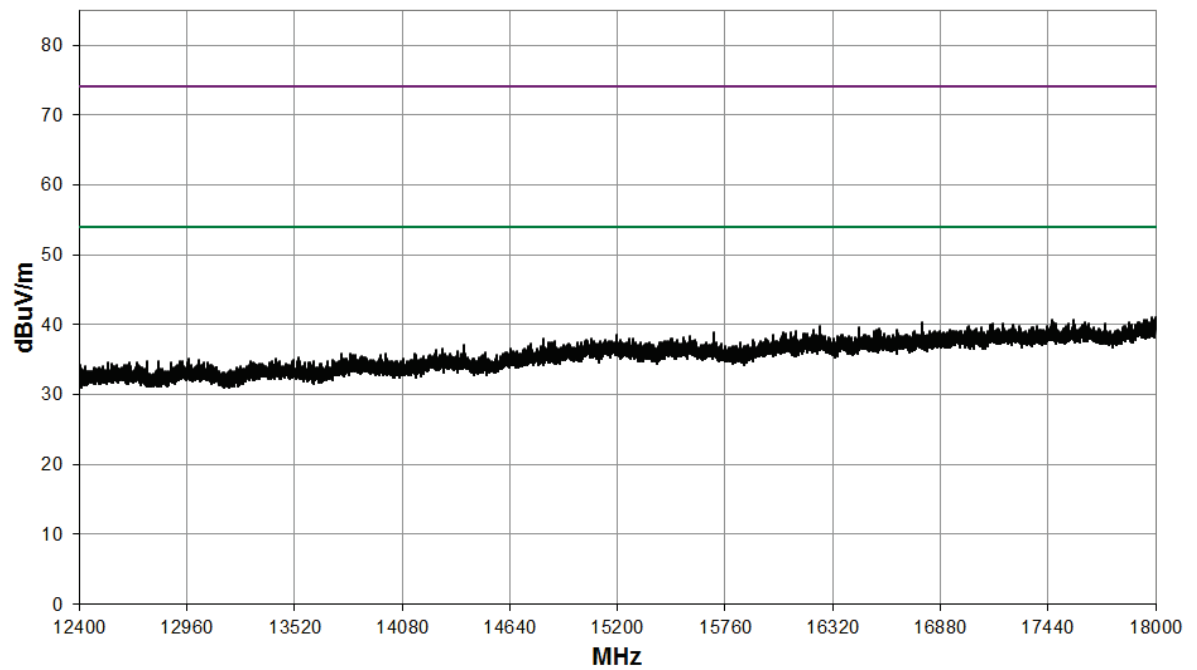
3 GHz to 8.2 GHz



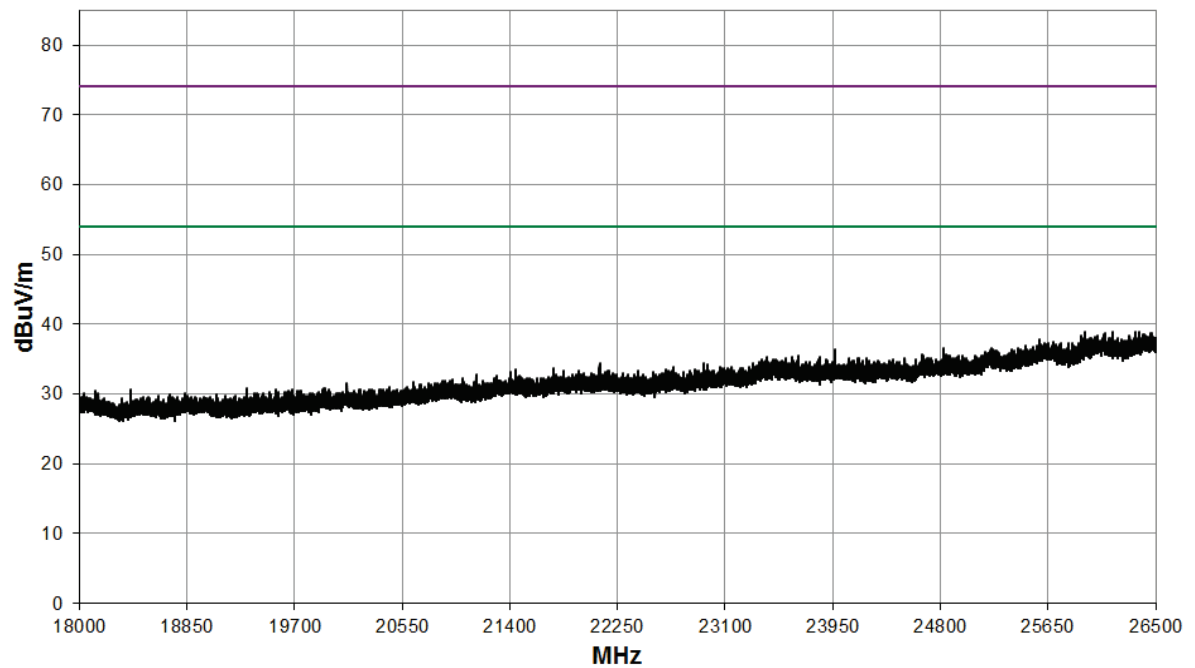
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz

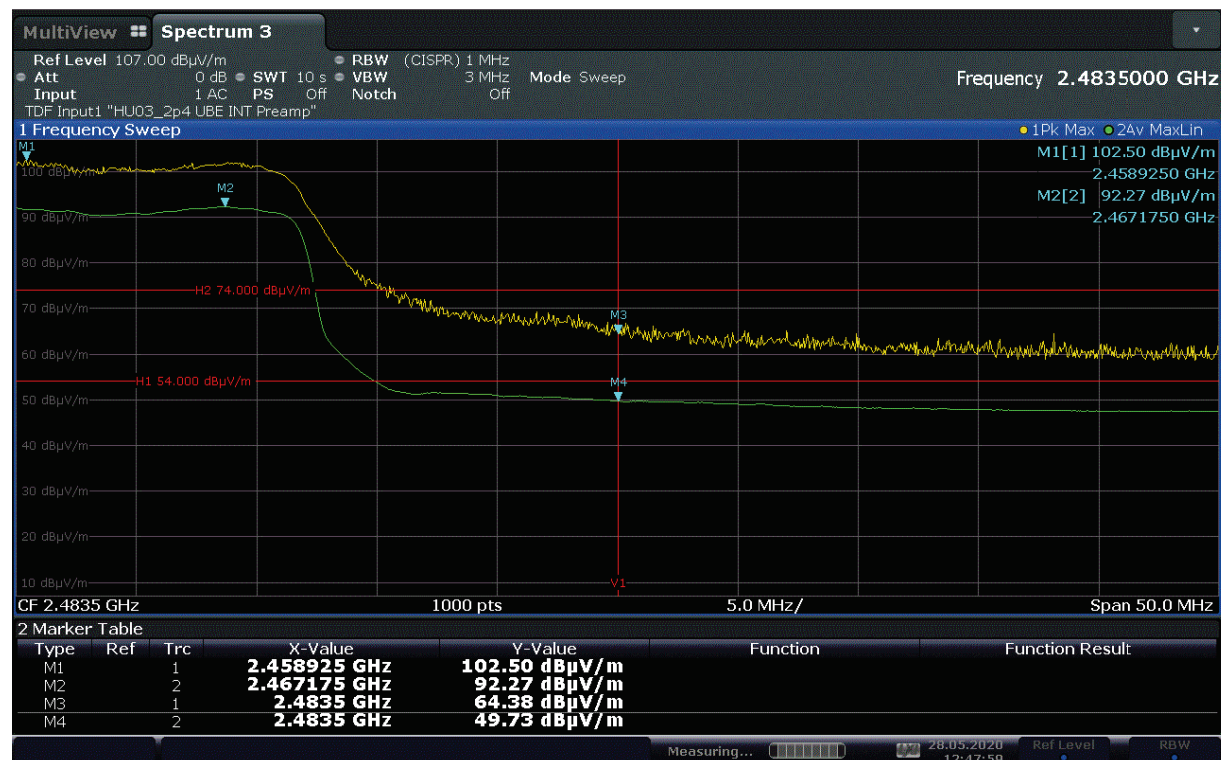


18 GHz to 26.5 GHz



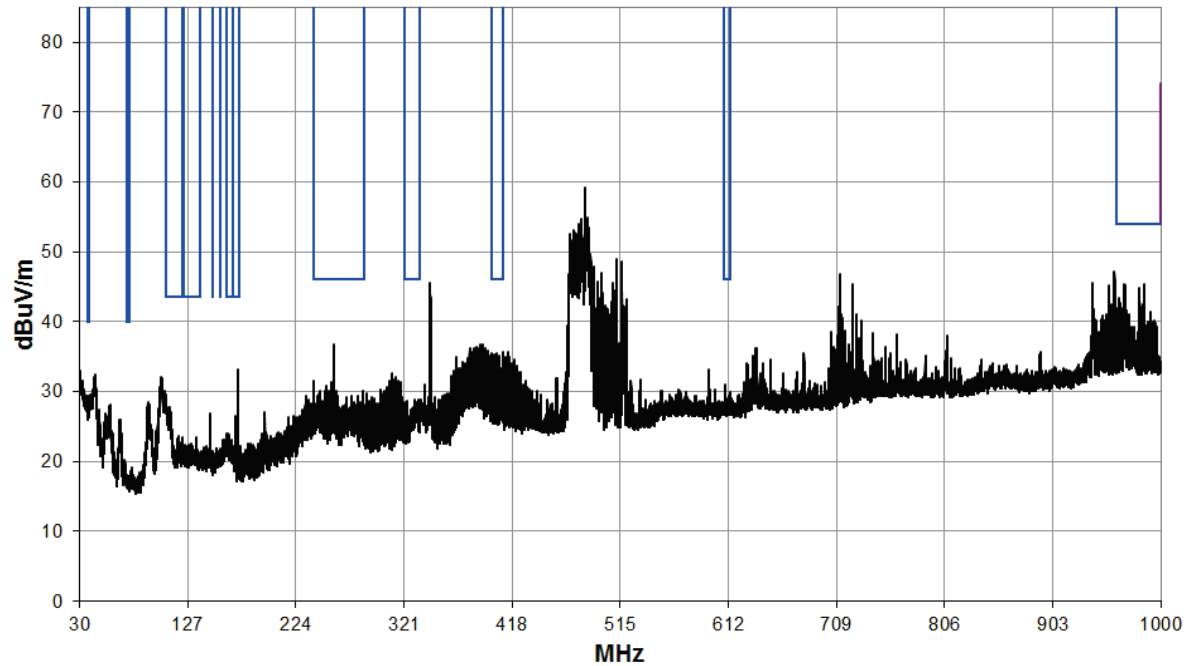
Band Edge

Element

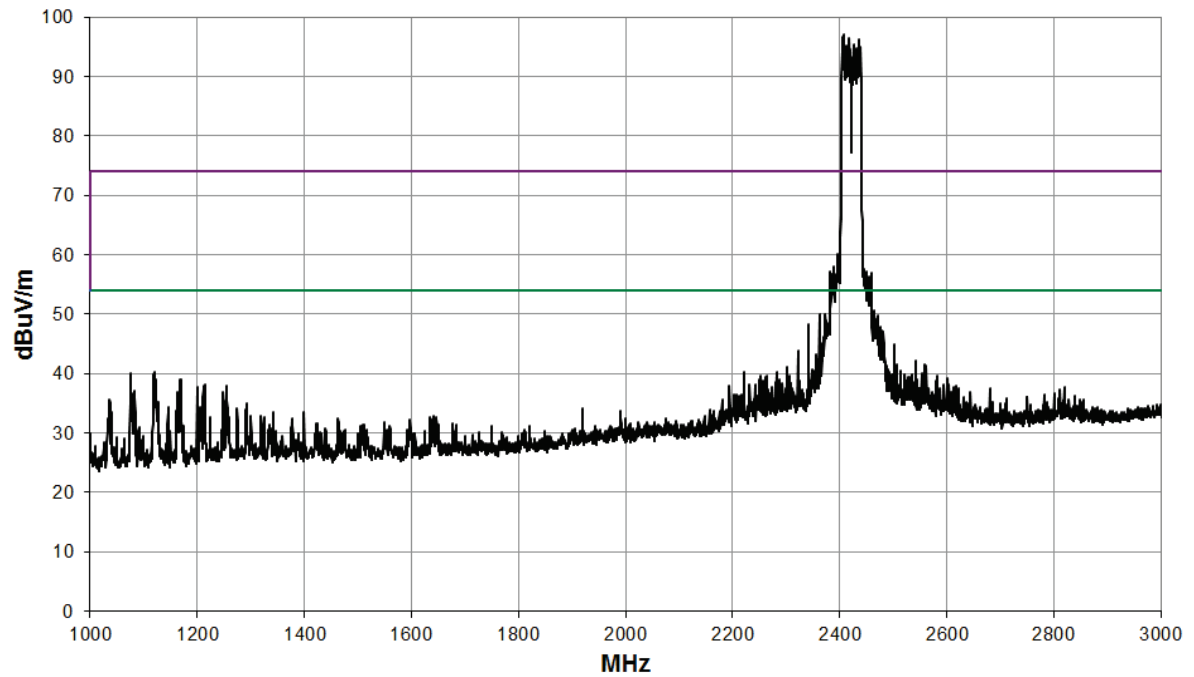


MIMO Mode: 802.11n40; Channel: CH3; Frequency: 2422 MHz; MCS index: MCS15; Power Setting: 12; Bandwidth: 40 MHz;										
Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500

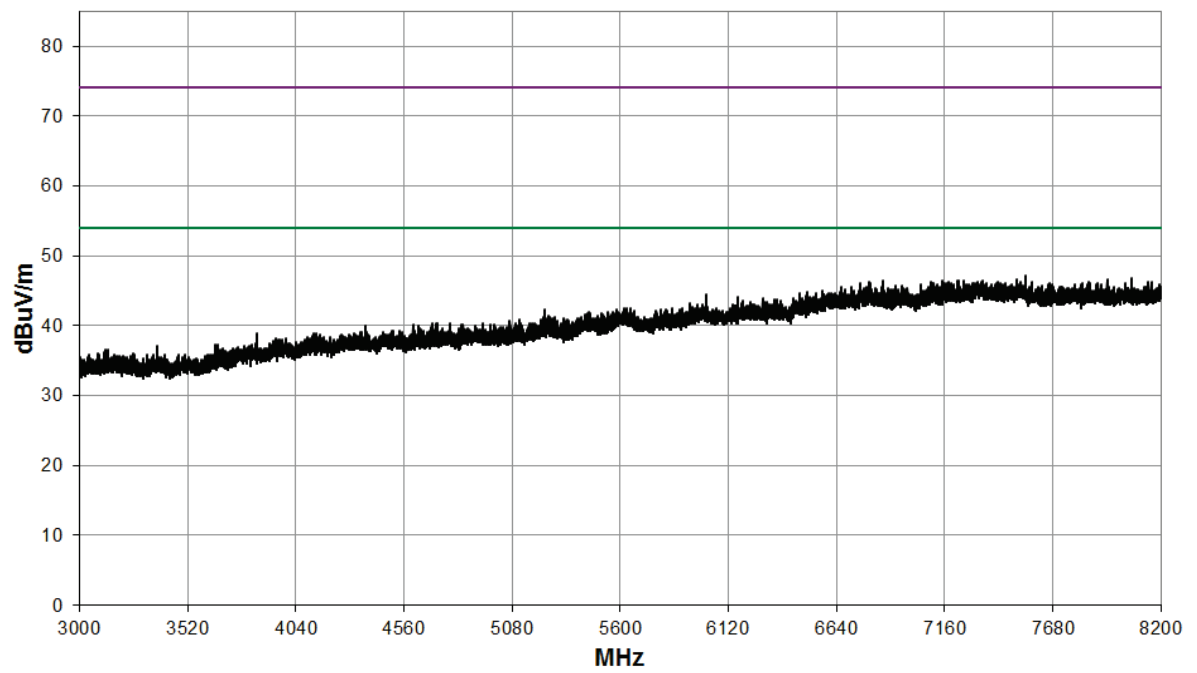
30 MHz to 1 GHz



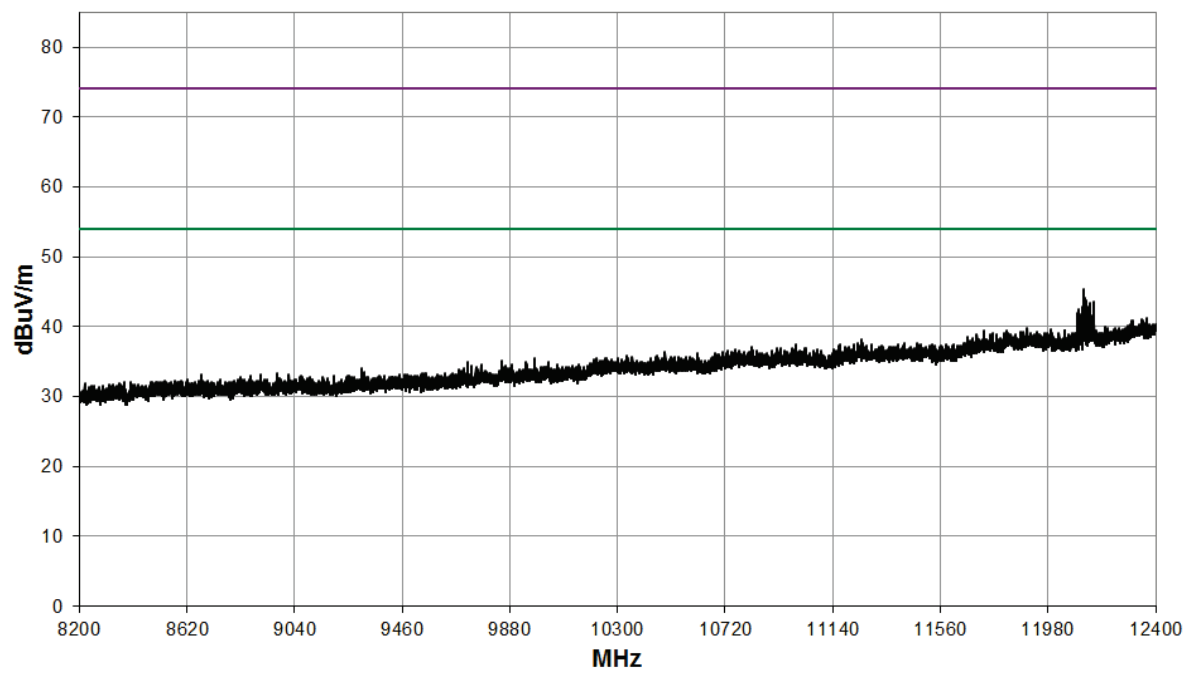
1 GHz to 3 GHz



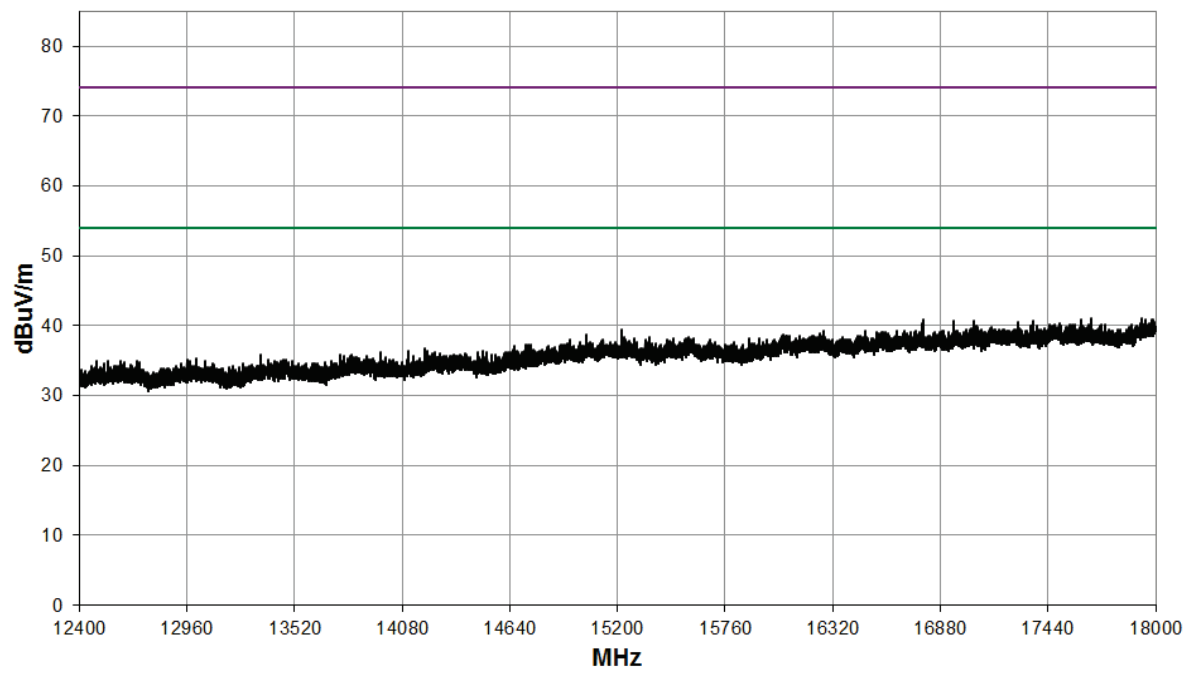
3 GHz to 8.2 GHz



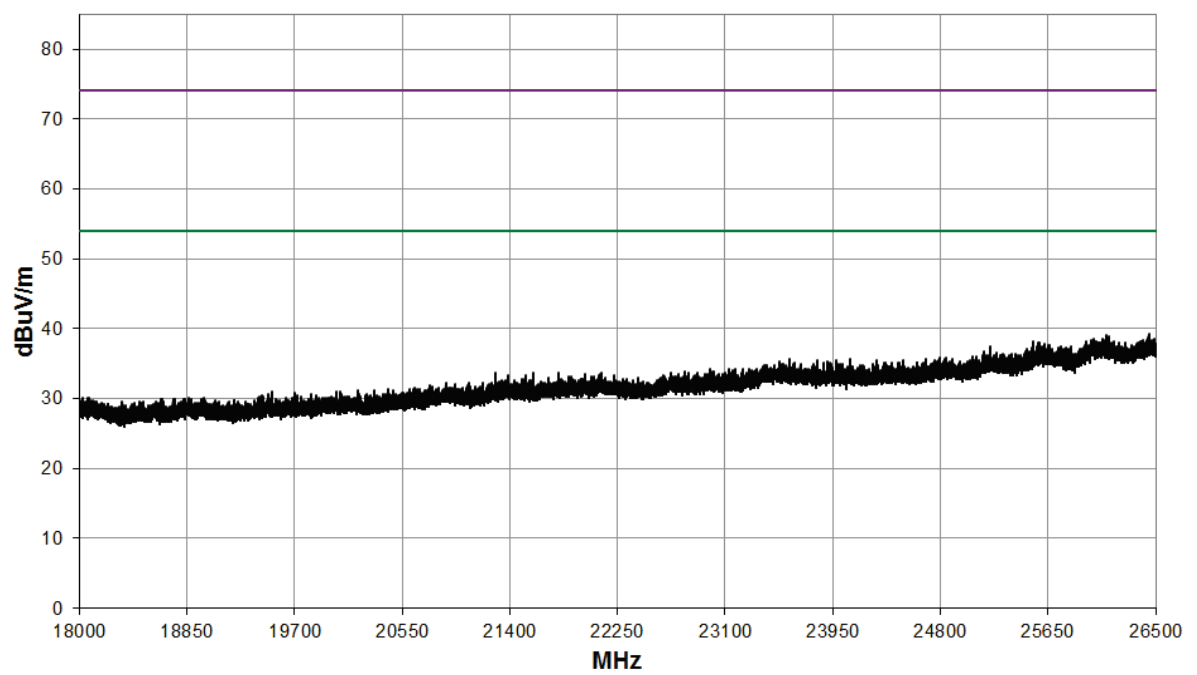
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



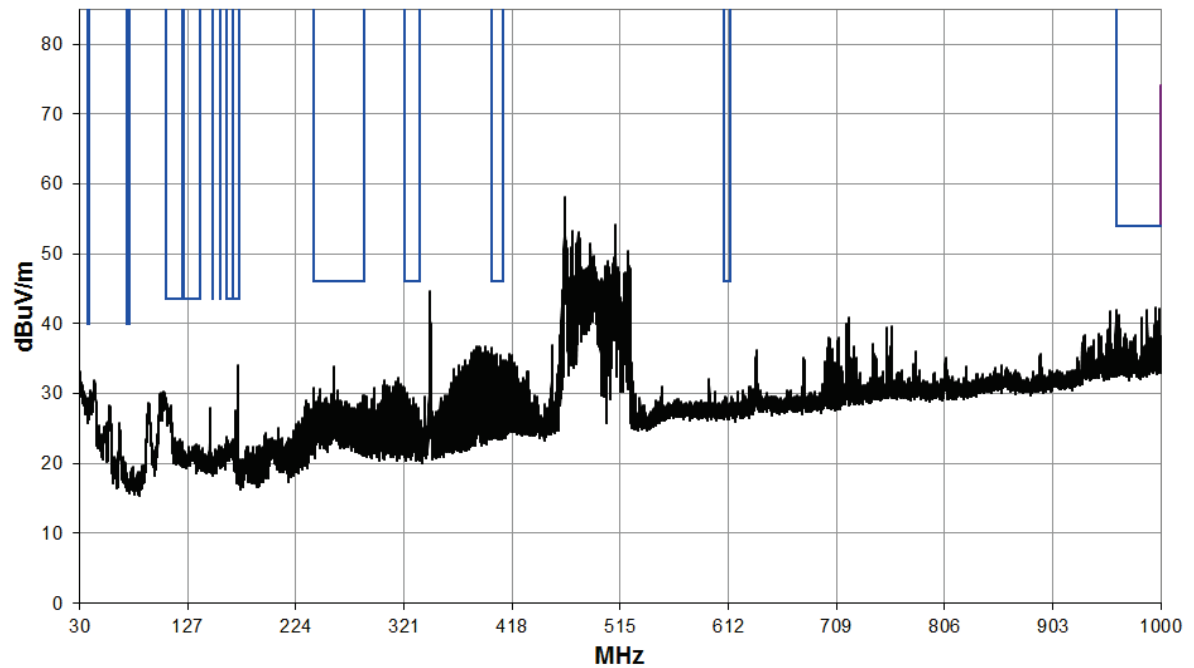
18 GHz to 26.5 GHz



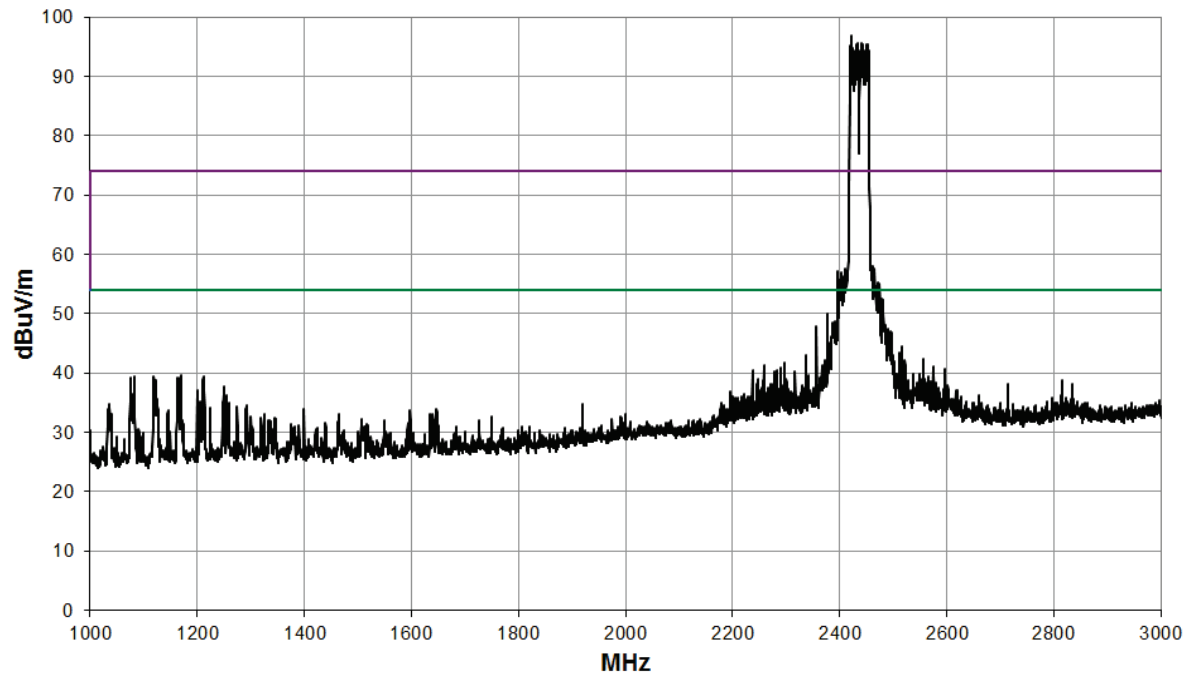
MIMO Mode: 802.11n40; Channel: CH6; Frequency: 2437 MHz; MCS index: MCS15; Power Setting: 12; Bandwidth: 40 MHz;

Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	12190.1	21.0	9.1	30.1	0.0	-3.5	0.0	56.7	683.9	5000
AV	12191.3	4.8	9.1	30.1	0.0	-3.5	0.0	40.5	105.9	500

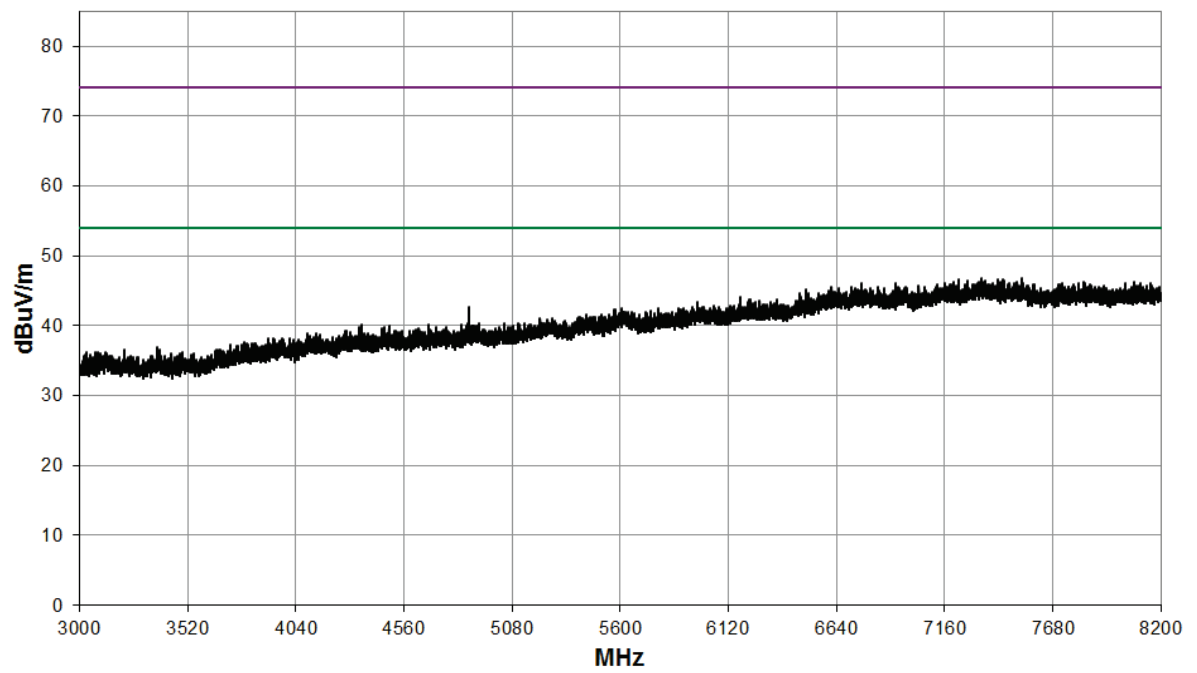
30 MHz to 1 GHz



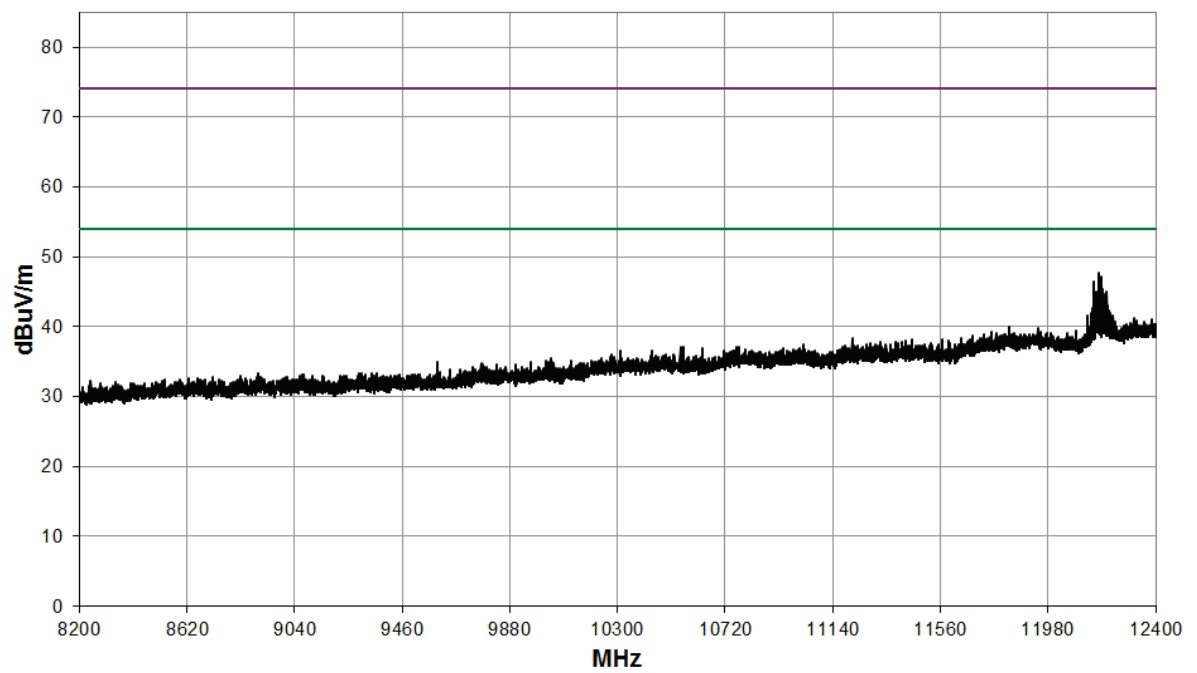
1 GHz to 3 GHz



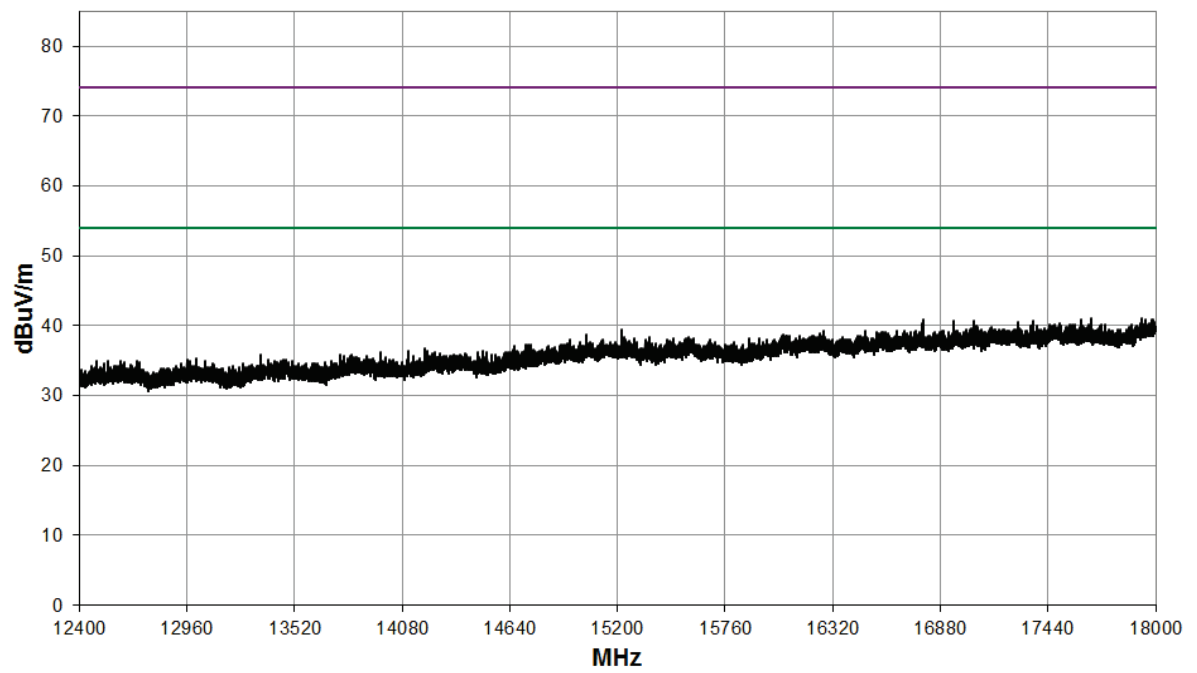
3 GHz to 8.2 GHz



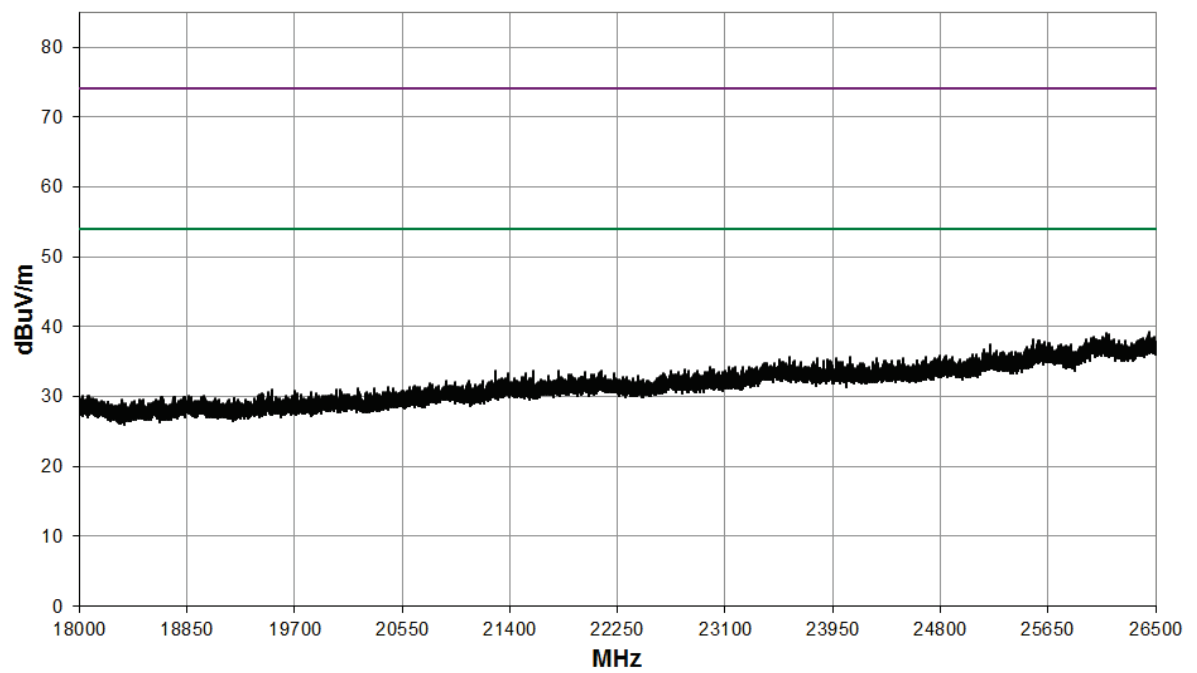
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



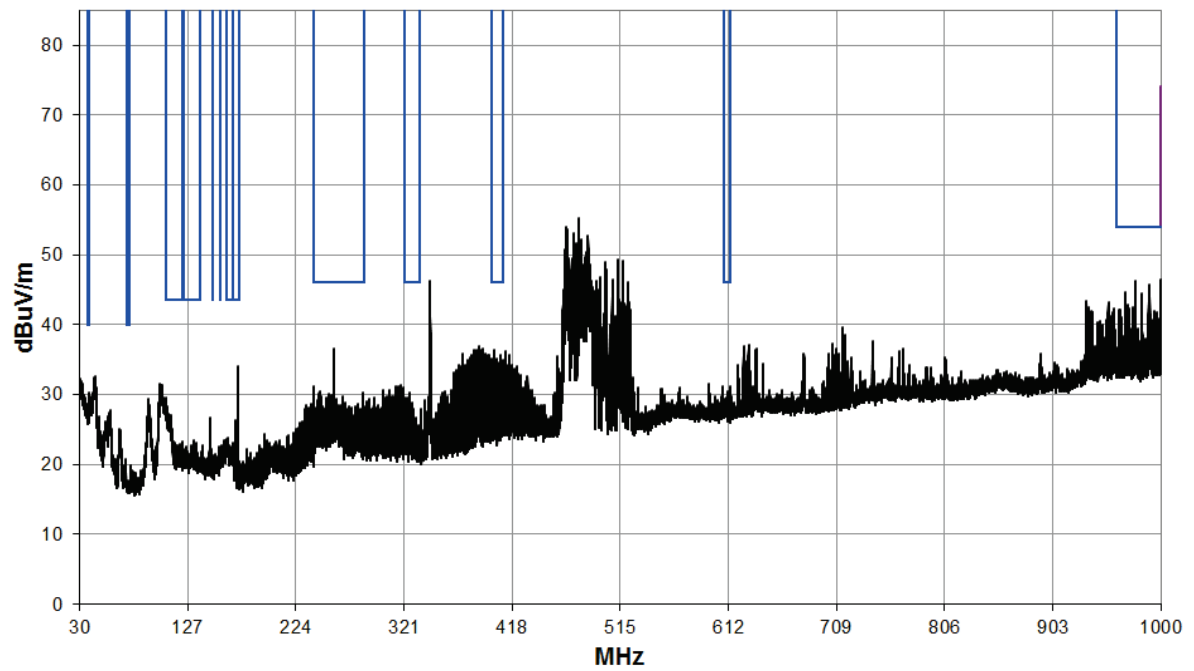
18 GHz to 26.5 GHz



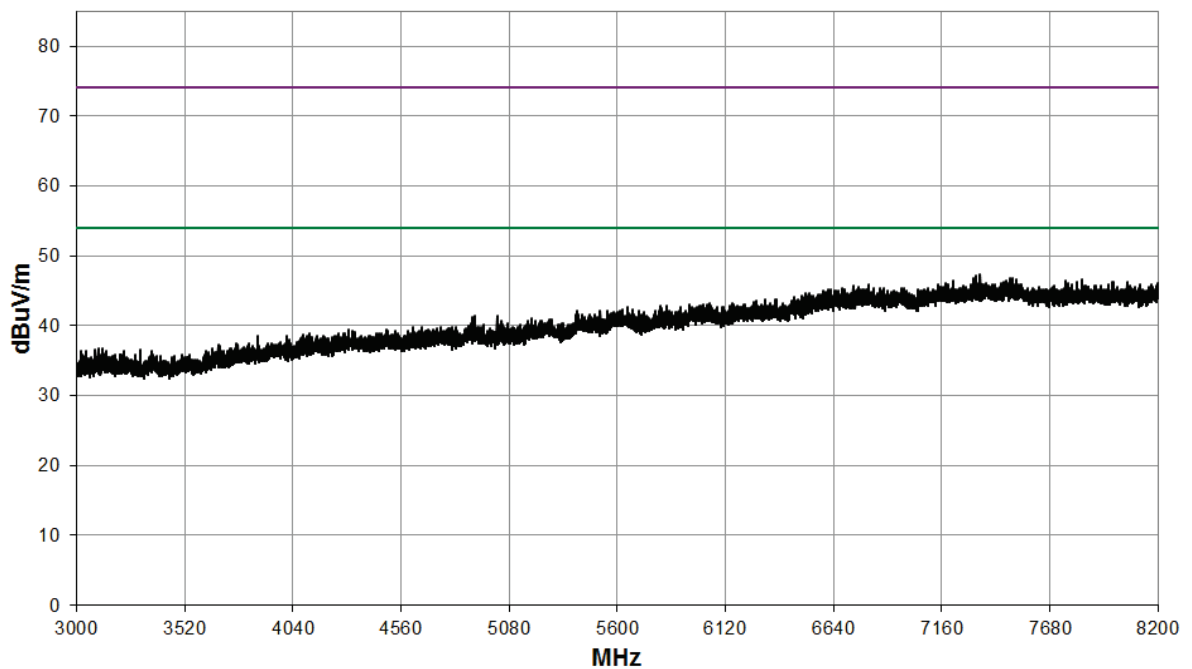
MIMO Mode: 802.11n40; Channel: CH9; Frequency: 2452 MHz; MCS index: MCS15; Power Setting: 12; Bandwidth: 40 MHz;

Detector	Freq. (MHz)	Meas'd Emission (dBμV)	Cable Loss (dB)	Antenna Factor (dB/m)	Pre-amp Gain (dB)	Duty Cycle Corr'n (dB)	Distance Extrap'n Factor (dB)	Field Strength (dBμV/m)	Field Strength (μV/m)	Limit (μV/m)
AV	1920.2	7.5	3.2	27.2	0.0	0.0	0.0	37.9	78.5	500
PK	12260.9	19.9	9.1	30.4	0.0	0.0	-3.5	55.9	623.7	5000
AV	12261.2	2.5	9.1	30.4	0.0	0.0	-3.5	38.5	84.1	500

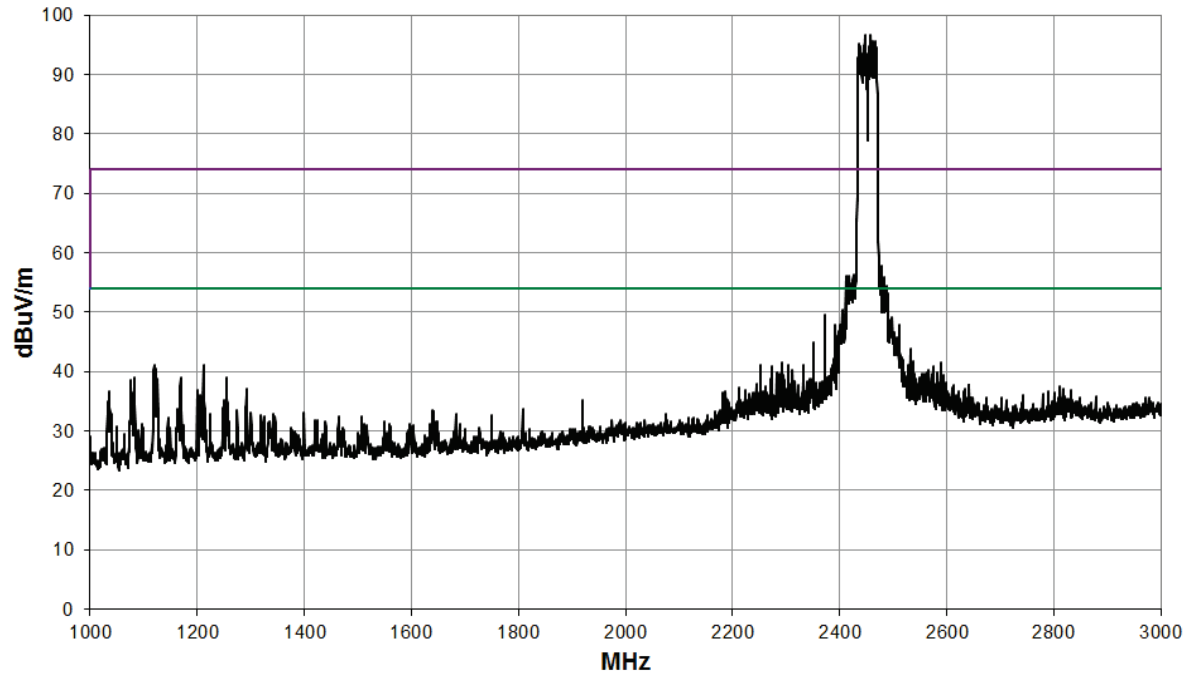
30 MHz to 1 GHz



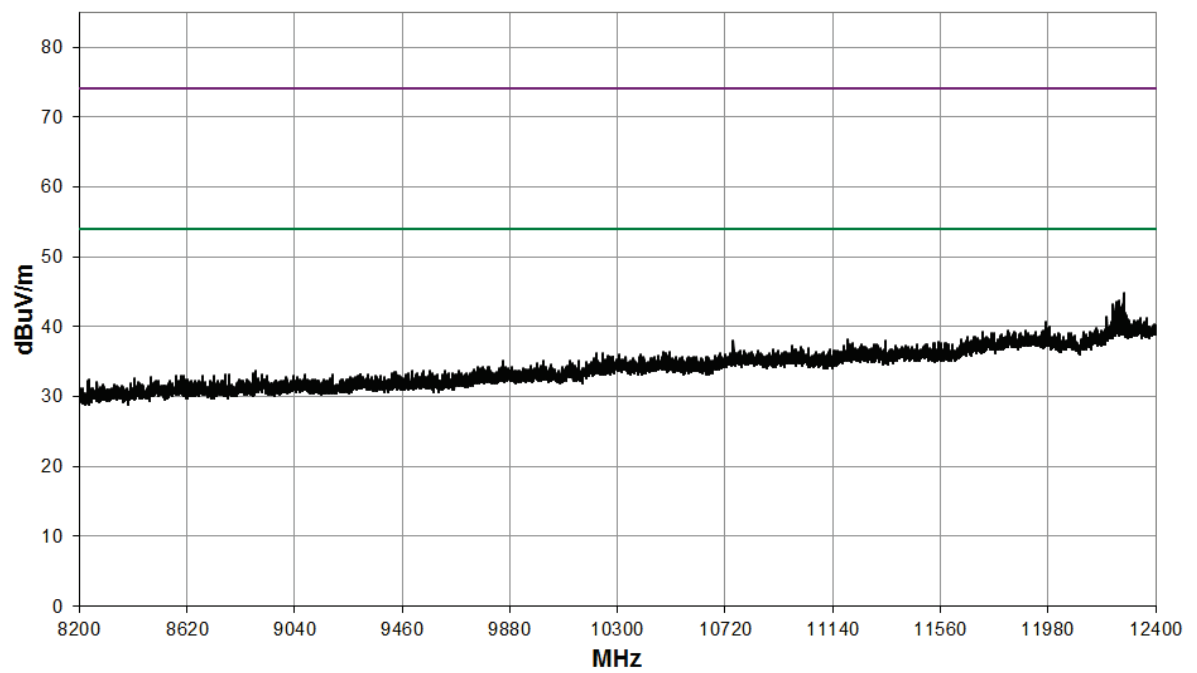
1 GHz to 3 GHz



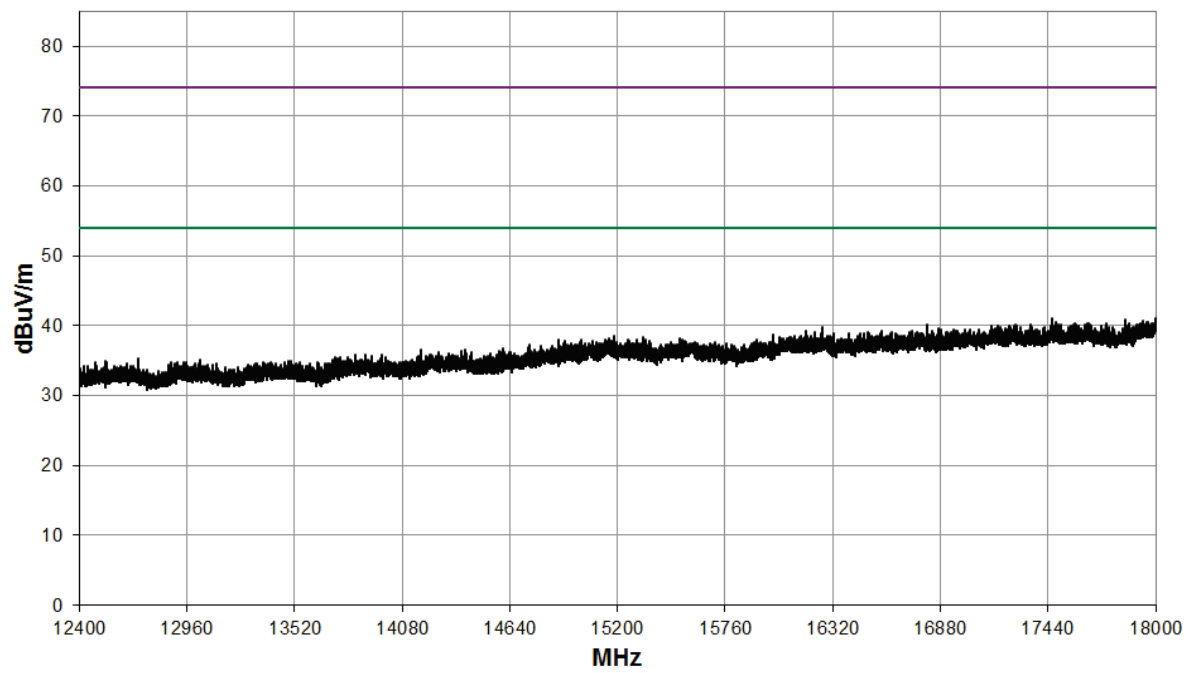
3 GHz to 8.2 GHz



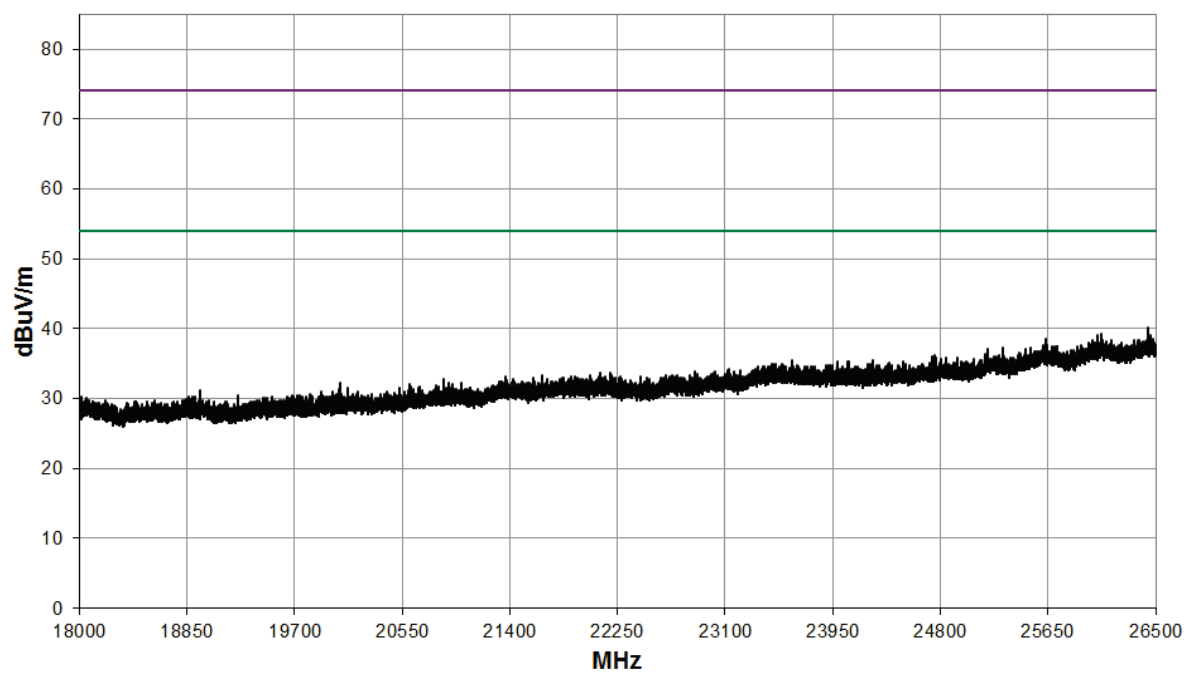
8.2 GHz to 12.4 GHz



12.4 GHz to 18 GHz



18 GHz to 26.5 GHz



Band Edge

Element

