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FCC TEST REPORT

FCC 47 CFR Part 15C
Industry Canada RSS-210

Digital transmission systems operating within the 2400 – 2483.5 MHz band

Report Reference No.....:	G0M-1411-4293-TFC247WF-V01
Testing Laboratory.....:	Eurofins Product Service GmbH
Address.....:	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation.....:	A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A
Applicant's name.....:	AED Engineering
Address.....:	Taunusstraße 51 80807 München GERMANY
Test specification:	
Standard.....:	47 CFR Part 15C KDB Publication No. 558074 D01 v03r02 RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 4, 2014-11 ANSI C63.4:2014
Test scope…….....:	complete Radio compliance test
Equipment under test (EUT):	
Product description	CAN-WLAN Gateway RH
Model No.	GN1001A
Additional Model(s)	None
Brand Name(s)	None
Hardware version	B0
Firmware / Software version	None
	FCC-ID: 2AELE-GN1001A IC: 20129-GN1001A
Test result	**Passed**

Possible test case verdicts:

- neither assessed nor tested .....: N/N
- required by standard but not appl. to test object.....: N/A
- required by standard but not tested.....: N/T
- not required by standard for the test object .....: N/R
- test object does meet the requirement.....: P (Pass)
- test object does not meet the requirement.....: F (Fail)

Testing:

Test Lab Temperature .....: 20 – 23 °C

Test Lab Humidity .....: 32 – 38 %

Date of receipt of test item .....: 2015-02-18

Date (s) of performance of tests .....: 2015-03-20 - 2015-03-24

Compiled by ..... : Matthias Handrik

Tested by (+ signature)..... : (Responsible for Test) Matthias Handrik .....

Approved by (+ signature) ..... : Christian Weber C. Weber .....

Date of issue ..... : 2015-06-30

Total number of pages ..... : 163

General remarks:

The test results presented in this report relate only to the object tested.
The results contained in this report reflect the results for this particular model and serial number. It is the responsibility of the manufacturer to ensure that all production models meet the intent of the requirements detailed within this report.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Additional comments:

The used radio module had a valid certification; the module used a new antenna. Only the radiated spurious measurements were performed. For the conducted measurement see test-report: FR3N2752-01C

Version History

Version	Issue Date	Remarks	Revised by
01	2015-06-30	Initial Release	

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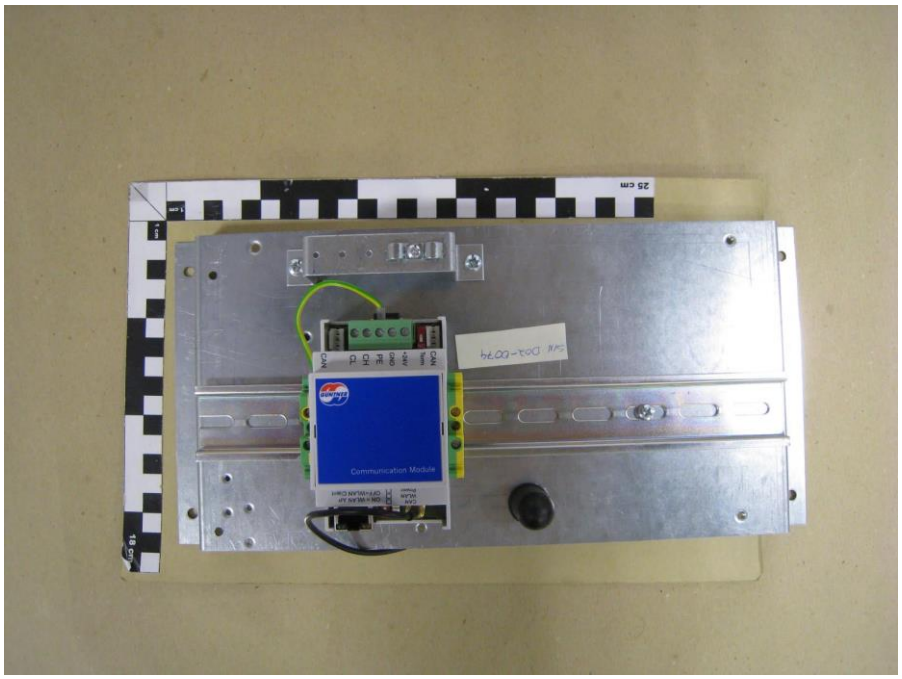
1 Equipment (Test item) Description

Description	CAN-WLAN Gateway RH			
Model	GN1001A			
Additional Model(s)	None			
Brand Name(s)	None			
Serial number	None			
Hardware version	B0			
Software / Firmware version	None			
FCC-ID	2AELE-GN1001A			
IC	20129-GN1001A			
Equipment type	End product			
Radio type	Transceiver			
Radio technology	IEEE 802.11 b/g/n			
Operating frequency range	2412 - 2462 MHz			
Assigned frequency band	2400 - 2483.5 MHz			
Main test frequencies	F_{LOW20}	2412 MHz	F_{LOW40}	2422 MHz
	F_{MID20}	2437 MHz	F_{MID40}	2437 MHz
	F_{HIGH20}	2462 MHz	F_{HIGH40}	2452 MHz
Spreading	CCK, DSSS, OFDM			
Modulations	BPSK, QPSK, 16-QAM, 64-QAM			
Number of channels	11			
Channel spacing	5 MHz			
Number of antennas	1			
Radio Module	Type	IEEE 802.11 b/g/n Module		
	Model	WL18 MODG B		
	Manufacturer	Texas Instruments		
	FCC-ID	Z64-WL18SBMOD		
	IC	451I-WL18SBMOD		
Antenna	Type	external dedicated		
	Model	ANT-2.4WRT-MON-RPS		
	Manufacturer	Lynx		
	Gain	+0.8 dBi (manufacturer declaration)		
Manufacturer	AED Engineering Taunusstraße 51 80807 München GERMANY			
Power supply	V_{NOM}	24 VDC		
	V_{MIN}	20 VDC		
	V_{MAX}	28 VDC		

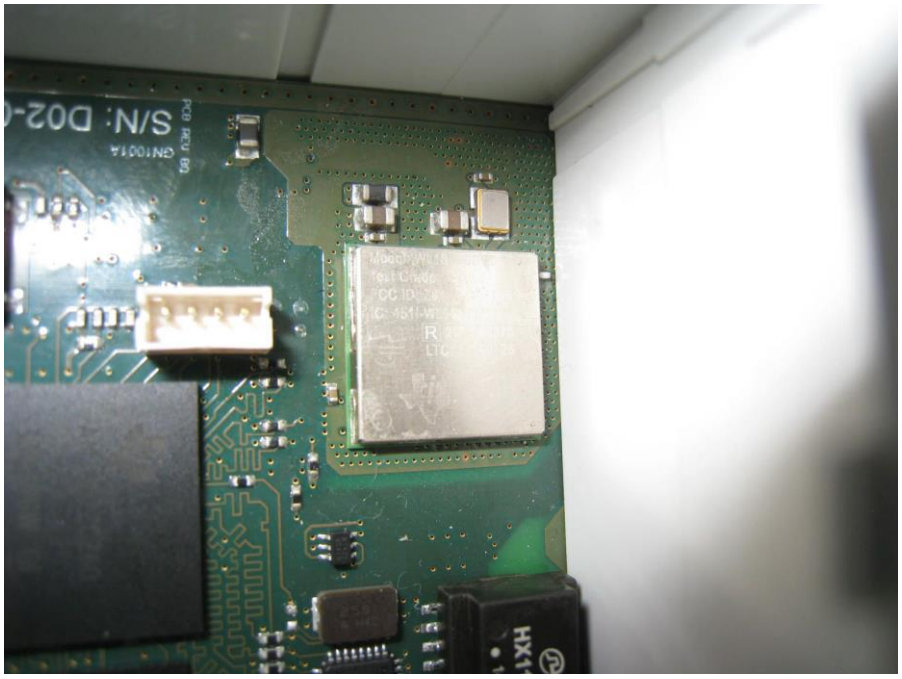
AC/DC-Adaptor	Model	N/A
	Vendor	N/A
	Input	N/A
	Output	N/A

1.1 Photos – Equipment External

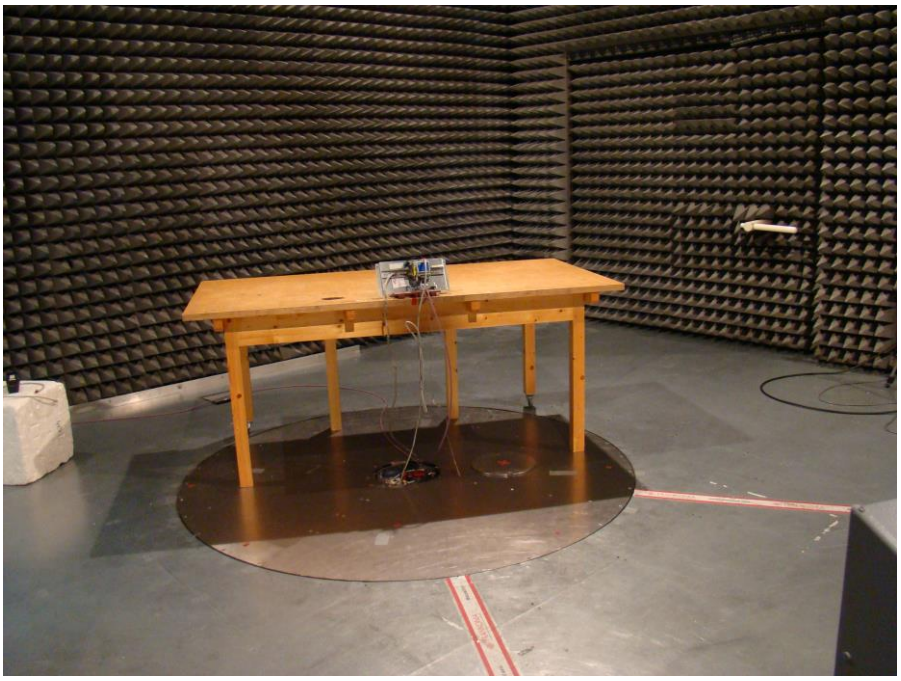
EUT TOP


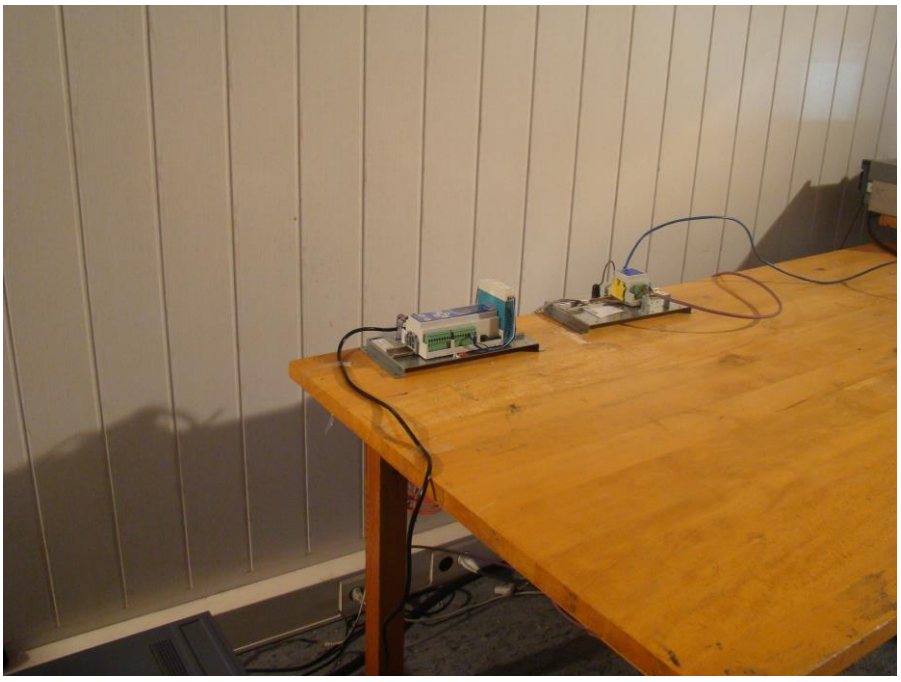
1.2 Photos – Equipment internal

EUT PCB TOP

EUT WLAN MODULE


1.3 Photos – Test setup

Setup radiated spurious emission


Setup AC-Power-line


1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	Laptop	Lenovo	R61	
AE : Auxiliary/Associated Equipment				

1.5 Test Modes

Mode #	Description	
DSSS	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = DSSS Modulation = BPSK Data rate = 1 Mbps Bandwidth = 20 MHz Duty cycle = 100 %
OFDM	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = OFDM Modulation = BPSK Data rate = 6 Mbps Bandwidth = 20 MHz Duty cycle = 100 %
HT20	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = OFDM Modulation = BPSK Data rate = MCS0 Bandwidth = 20 MHz Duty cycle = 100 %
HT40	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = OFDM Modulation = BPSK Data rate = MCS0 Bandwidth = 40 MHz Duty cycle = 100 %
Receive	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone receive Spreading = DSSS / OFDM

AC-Powerline	General conditions:	EUT powered by 120 V AC
	Radio conditions:	Mode = standalone transmit Spreading = DSSS Power level = Maximum

1.6 Test Equipment Used During Testing

Measurement Software			
Description	Manufacturer	Name	Version
EMC Test Software	Dare Instruments	Radimation	2014.1.15

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
Spectrum Analyzer	R&S	FSIQ26	EF00242	2014-03	2015-03
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2014-03	2017-03
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

AC powerline conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	EF00182	2014-11	2016-11
EMI Test Receiver	R&S	ESCS 30	EF00295	2014-10	2015-10

1.7 Sample emission level calculation

The following is a description of terms and a sample calculation, as appears in the radiated emissions data table. The numbers used in the calculation are for example only. There is no direct correlation to the specific data taken for the product described in this document:

Reading:

This is the reading obtained on the spectrum analyzer in dBµV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

This is the antenna factor for the receiving antenna. It is a conversion factor, which converts electric fields strengths to voltages, which can be measured directly on the spectrum analyzer. It is treated as a loss in dB. Cable losses have been included with the A.F. to simplify the calculations. The antenna factor is used in calculations as follows:

Reading on Analyzer (dBµV) + A.F. (dB) = Net field strength (dBµV/m)

Net:

This is the net field strength measurement (as shown above).

Limit:

This is the FCC Class B radiated emission limit (in units of dBµV/m). The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m:

Limit (dBµV/m) = 20*log (µV/m)

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example only:

Reading	+	AF	=	Net Reading	:	Net reading - FCC limit = Margin
21.5 dBµV	+	26 dB	=	47.5 dBµV/m	:	47.5 dBµV/m - 57.0 dBµV/m = -9.5 dB

2 Result Summary

FCC 47 CFR Part 15C, IC RSS-210				
Product Specific Standard Section	**Requirement – Test**	**Reference Method**	**Result**	**Remarks**
RSS-Gen 6.6	Occupied Bandwidth	RSS-Gen 6.6	N/R	Informational only; See FCC RF Test Report: FR3N2752-01C
FCC § 15.247(a)(2) IC RSS-210 § A8.2	6dB Bandwidth	KDB Publication No. 558074	PASS	See FCC RF Test Report: FR3N2752-01C
FCC § 15.247(b)(3) IC RSS-210 § A8.4	Maximum peak conducted power	KDB Publication No. 558074	PASS	See FCC RF Test Report: FR3N2752-01C
FCC § 15.247(e) IC RSS-210 § A8.2	Power spectral density	KDB Publication No. 558074	PASS	See FCC RF Test Report: FR3N2752-01C
47 CFR 15.207 RSS-Gen 8.8	AC power line conducted emissions	KDB Publication No. 558074 / ANSI C63.4	PASS	
FCC § 15.247(d) IC RSS-210 § A8.5	Band edge compliance	KDB Publication No. 558074	PASS	See FCC RF Test Report: FR3N2752-01C
FCC § 15.247(d) IC RSS-210 § A8.5	Conducted spurious emissions	KDB Publication No. 558074	PASS	See FCC RF Test Report: FR3N2752-01C
FCC § 15.247(d) FCC § 15.209 IC RSS-210 A8.5 IC RSS-Gen 6.13	Transmitter radiated spurious emissions	KDB Publication No. 558074 / ANSI C 63.4	PASS	
IC RSS-Gen 7.1	Receiver radiated spurious emissions	ANSI C 63.4	PASS	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – AC power line conducted emissions

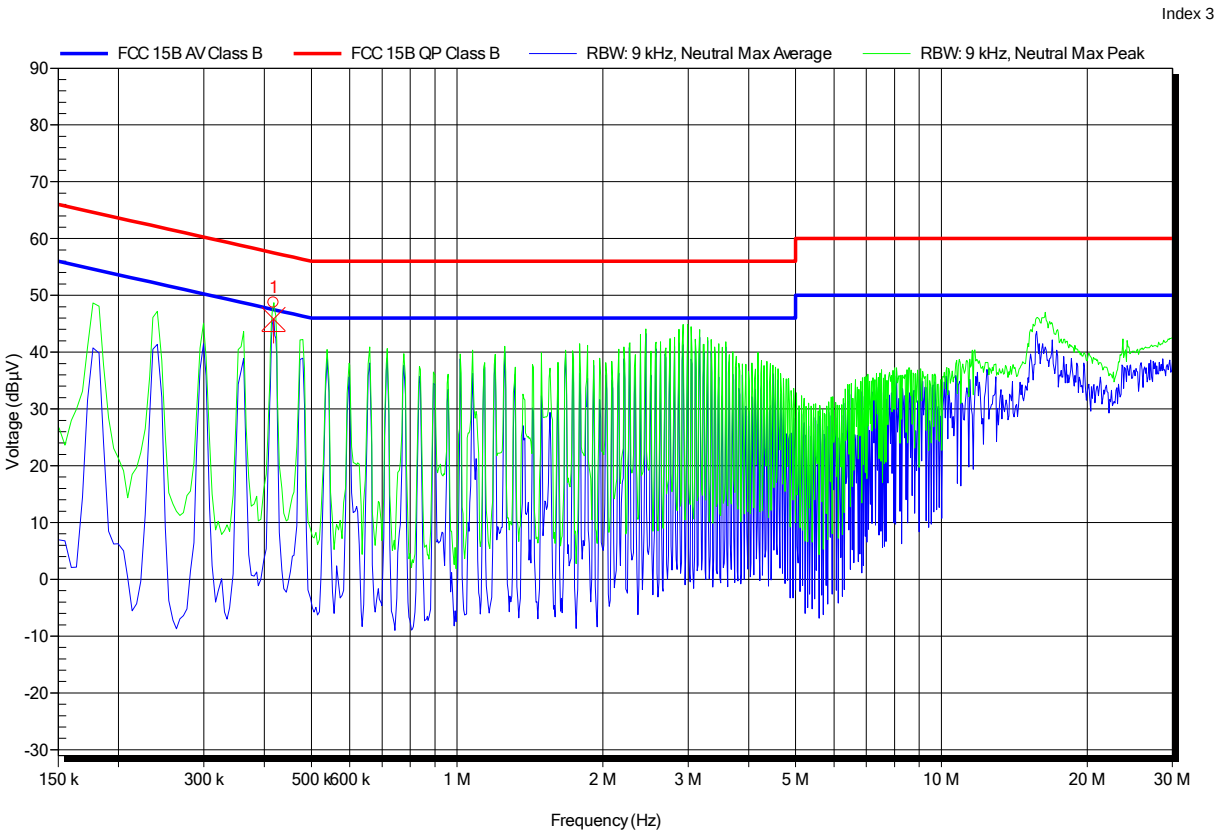
Power line conducted emissions acc. to FCC 47 CFR 15.207 / IC RSS-Gen				**Verdict: PASS**
Test according referenced standards	Reference Method			
	ANSI C63.4			
Fully configured sample scanned over the following frequency range	Frequency range			
	0.15 MHz to 30 MHz			
Points of Application	Application Interface			
AC Mains	LISN			
EUT test mode	AC-Powerline			
Limits and results				
Frequency [MHz]	Quasi-Peak [dBµV]	Result	Average [dBµV]	Result
0.15 to 5	66 to 56*	PASS	56 to 46*	PASS
0.5 to 5	56	PASS	46	PASS
5 to 30	60	PASS	50	PASS
Comments: * Limit decreases linearly with the logarithm of the frequency.				

Conducted Emissions

EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1411-4293

Manufacturer:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Belz
Test Conditions:	Tnom: 23°C, Unom: 120 VAC
LISN:	ESH2-Z5 N
Mode:	WLAN, LAN active
Test Date:	2015-03-16
Note:	



Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
417.75 kHz	45.85 dBµV	57.49 dBµV	-11.64 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
417.75 kHz	43.62 dBµV	47.49 dBµV	-3.87 dB	Pass

Conducted Emissions

EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1411-4293

Manufacturer:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Belz
Test Conditions:	Tnom: 23°C, Unom: 120 VAC
LISN:	ESH2-Z5 L
Mode:	WLAN, LAN active
Test Date:	2015-03-16
Note:	

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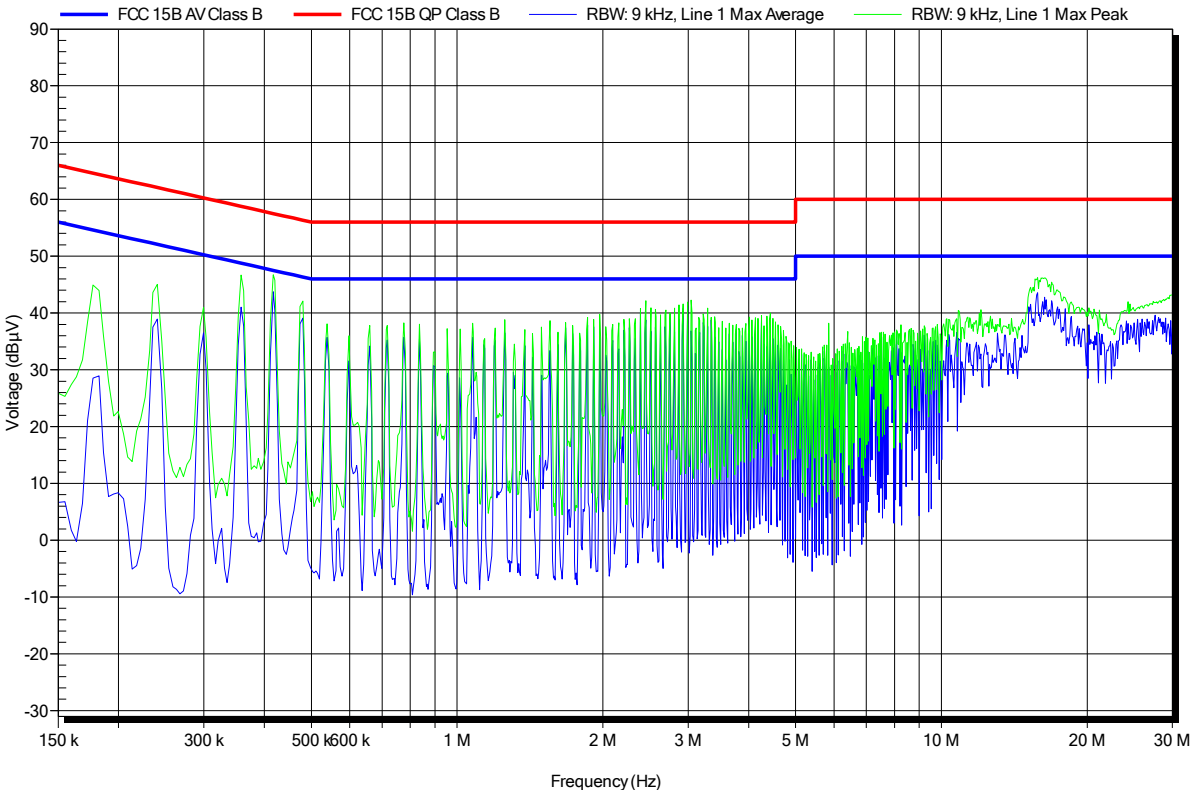
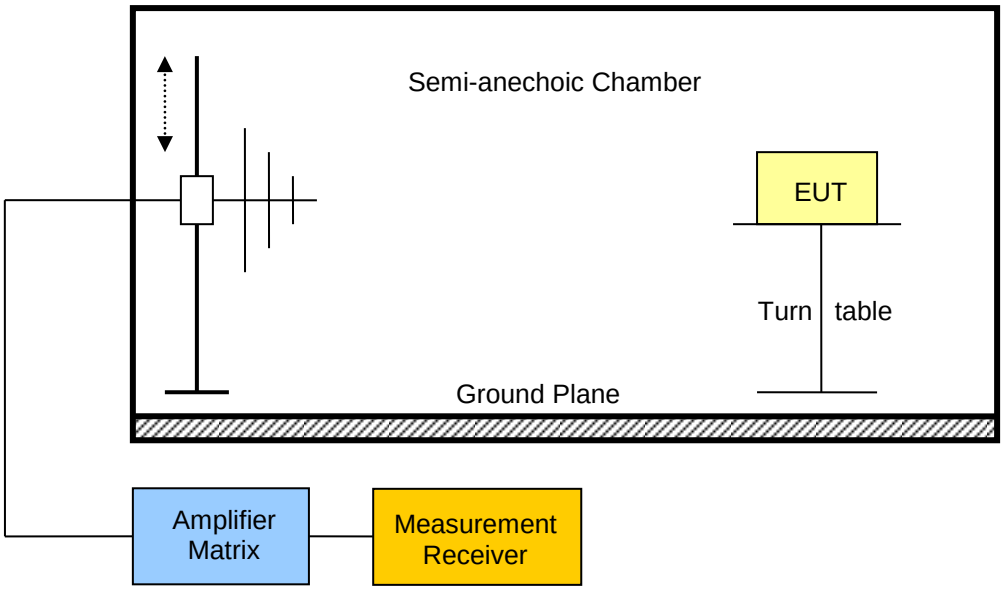


3.2 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated emissions acc. to FCC 47 CFR 15.247 / IC RSS-210				**Verdict: PASS**
Test according referenced standards	Reference Method			
	FCC 15.247(d) / IC RSS-210 A8.5			
Test according to measurement reference	Reference Method			
	FCC KDB Publication No. 558074 / ANSI C63.4			
Test frequency range	Tested frequencies			
	30 MHz – 10th Harmonic			
Limits				
Frequency range [MHz]	Detector	Limit [µV/m]	Limit [dBµV/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)). When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.				
Test setup				



Test procedure
1. EUT set to test mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels within restricted bands

Test results IEEE802.11 b

Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbµV/m]	Det.	Pol.	Limit [dbµV/m]	Limit dist. [m]*	Margin [dB]
F_{LOW}	2412	DSSS	2363	42.41	pk	hor	74.00	3	-31.59
F_{LOW}	2412	DSSS	2363	32.11	RMS	hor	54.00	3	-21.89
F_{LOW}	2412	DSSS	2386	48.73	pk	hor	74.00	3	-25.27
F_{LOW}	2412	DSSS	2386	41.60	RMS	hor	54.00	3	-12.40
F_{LOW}	2412	DSSS	2310	40.27	pk	ver	74.00	3	-33.73
F_{LOW}	2412	DSSS	2310	29.55	RMS	ver	54.00	3	-24.45
F_{LOW}	2412	DSSS	2358	41.91	pk	ver	74.00	3	-32.09
F_{LOW}	2412	DSSS	2358	29.95	RMS	ver	54.00	3	-24.05
F_{LOW}	2412	DSSS	2386	46.29	pk	ver	74.00	3	-27.71
F_{LOW}	2412	DSSS	2386	38.17	RMS	ver	54.00	3	-15.83
F_{LOW}	2412	DSSS	3961	43.16	pk	ver	74.00	3	-30.84
F_{HIGH}	2462	DSSS	2484	50.66	pk	hor	74.00	3	-23.34
F_{HIGH}	2462	DSSS	2484	41.70	RMS	hor	54.00	3	-12.30
F_{HIGH}	2462	DSSS	2488	49.90	pk	hor	74.00	3	-24.10
F_{HIGH}	2462	DSSS	2488	40.64	RMS	hor	54.00	3	-13.36
F_{HIGH}	2462	DSSS	2491	47.55	pk	hor	74.00	3	-26.45
F_{HIGH}	2462	DSSS	2491	38.94	RMS	hor	54.00	3	-15.06
F_{HIGH}	2462	DSSS	2499	49.55	pk	hor	74.00	3	-24.45
F_{HIGH}	2462	DSSS	2499	39.68	RMS	hor	54.00	3	-14.32
F_{HIGH}	2462	DSSS	2484	48.82	pk	ver	74.00	3	-25.18
F_{HIGH}	2462	DSSS	2484	39.74	RMS	ver	54.00	3	-14.26
F_{HIGH}	2462	DSSS	2487	49.87	pk	ver	74.00	3	-24.13
F_{HIGH}	2462	DSSS	2487	41.67	RMS	ver	54.00	3	-12.33

Comments: * Physical distance between EUT and measurement antenna.

Test results IEEE802.11 g									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbµV/m]	Det.	Pol.	Limit [dbµV/m]	Limit dist. [m]*	Margin [dB]
F_{LOW}	2412	OFDM	2379	54.39	pk	hor	74.00	3	-19.61
F_{LOW}	2412	OFDM	2379	32.40	RMS	hor	54.00	3	-21.60
F_{LOW}	2412	OFDM	2383	61.91	pk	hor	74.00	3	-12.09
F_{LOW}	2412	OFDM	2383	35.86	RMS	hor	54.00	3	-18.14
F_{LOW}	2412	OFDM	2387	67.14	pk	hor	74.00	3	-06.86
F_{LOW}	2412	OFDM	2387	40.06	RMS	hor	54.00	3	-13.94
F_{HIGH}	2462	OFDM	2484	66.18	pk	ver	74.00	3	-07.82
F_{HIGH}	2462	OFDM	2484	43.86	RMS	ver	54.00	3	-10.14
F_{HIGH}	2462	OFDM	2484	73.33	pk	hor	74.00	3	-00.67
F_{HIGH}	2462	OFDM	2484	49.26	RMS	hor	54.00	3	-04.74
F_{HIGH}	2462	OFDM	2487	61.32	pk	ver	74.00	3	-12.68
F_{HIGH}	2462	OFDM	2487	37.91	RMS	ver	54.00	3	-16.09
F_{HIGH}	2462	OFDM	2489	61.55	pk	hor	74.00	3	-12.45
F_{HIGH}	2462	OFDM	2489	38.17	RMS	hor	54.00	3	-15.83
F_{HIGH}	2462	OFDM	2490	59.77	pk	ver	74.00	3	-14.23
F_{HIGH}	2462	OFDM	2490	37.41	RMS	ver	54.00	3	-16.59
F_{HIGH}	2462	OFDM	2496	54.56	pk	ver	74.00	3	-19.44
F_{HIGH}	2462	OFDM	2496	32.90	RMS	ver	54.00	3	-21.10
F_{HIGH}	2462	OFDM	2498	50.82	pk	ver	74.00	3	-23.18
F_{HIGH}	2462	OFDM	2498	31.04	RMS	ver	54.00	3	-22.96
F_{HIGH}	2462	OFDM	2498	51.09	pk	hor	74.00	3	-22.91
F_{HIGH}	2462	OFDM	2498	31.67	RMS	hor	54.00	3	-22.33
F_{MID}	2437	OFDM	2383	51.79	pk	hor	74.00	3	-22.21
F_{MID}	2437	OFDM	2385	53.44	pk	ver	74.00	3	-20.56
F_{MID}	2437	OFDM	2385	34.16	RMS	ver	54.00	3	-19.84
F_{MID}	2437	OFDM	2389	54.89	pk	ver	74.00	3	-19.11
F_{MID}	2437	OFDM	2389	53.99	pk	ver	74.00	3	-20.01
F_{MID}	2437	OFDM	2389	33.78	RMS	ver	54.00	3	-20.22
F_{MID}	2437	OFDM	2390	54.19	pk	ver	74.00	3	-19.81
F_{MID}	2437	OFDM	2390	34.05	RMS	ver	54.00	3	-19.95
F_{MID}	2437	OFDM	2487	53.49	pk	hor	74.00	3	-20.51
F_{LOW}	2412	OFDM	4816	38.77	pk	hor	74.00	3	-35.23
F_{LOW}	2412	OFDM	2369	50.23	pk	ver	74.00	3	-23.77
F_{LOW}	2412	OFDM	2369	29.68	RMS	ver	54.00	3	-24.32

F_{LOW}	2412	OFDM	2384	59.30	pk	ver	74.00	3	-14.70
F_{LOW}	2412	OFDM	2384	33.77	RMS	ver	54.00	3	-20.23
F_{LOW}	2412	OFDM	2400	76.38	pk	ver	95.00	3	-18.62
Comments: * Physical distance between EUT and measurement antenna.									

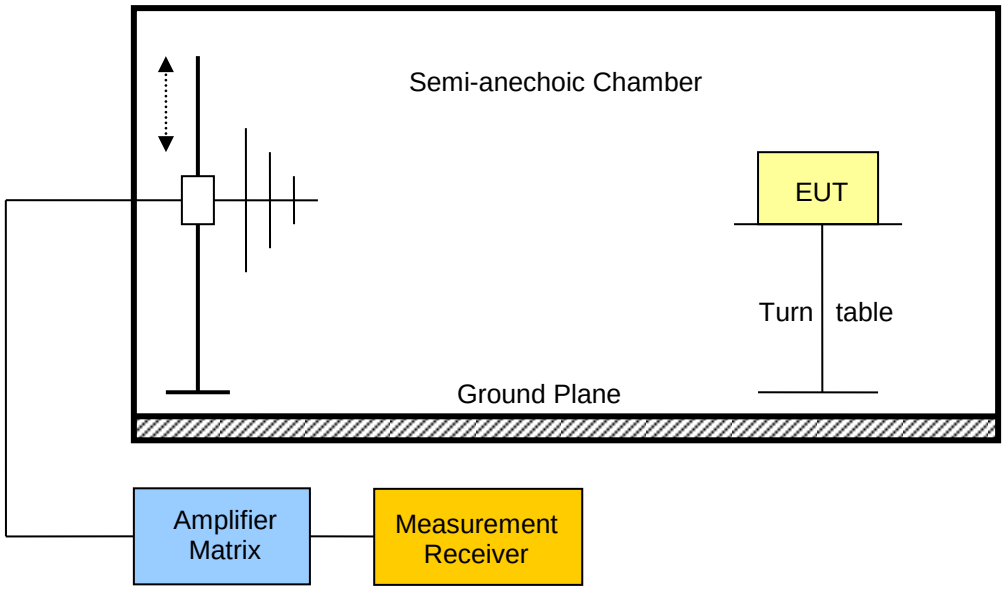
Test results IEEE802.11 gn (HT40)									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbµV/m]	Det.	Pol.	Limit [dbµV/m]	Limit dist. [m]*	Margin [dB]
F_{LOW}	2422	OFDM	2357	55.39	pk	hor	74.00	3	-18.61
F_{LOW}	2422	OFDM	2357	29.63	RMS	hor	54.00	3	-24.37
F_{LOW}	2422	OFDM	2358	58.08	pk	ver	74.00	3	-15.92
F_{LOW}	2422	OFDM	2358	39.77	RMS	ver	54.00	3	-14.23
F_{LOW}	2422	OFDM	2367	57.13	pk	hor	74.00	3	-16.87
F_{LOW}	2422	OFDM	2367	31.80	RMS	hor	54.00	3	-22.20
F_{LOW}	2422	OFDM	2372	59.12	pk	hor	74.00	3	-14.88
F_{LOW}	2422	OFDM	2372	34.36	RMS	hor	54.00	3	-19.64
F_{LOW}	2422	OFDM	2374	59.96	pk	ver	74.00	3	-14.04
F_{LOW}	2422	OFDM	2374	41.22	RMS	ver	54.00	3	-12.78
F_{LOW}	2422	OFDM	2380	68.65	pk	hor	74.00	3	-05.35
F_{LOW}	2422	OFDM	2380	43.29	RMS	hor	54.00	3	-10.71
F_{LOW}	2422	OFDM	2382	68.73	pk	ver	74.00	3	-05.27
F_{LOW}	2422	OFDM	2382	46.33	RMS	ver	54.00	3	-07.67
F_{LOW}	2422	OFDM	2385	71.10	pk	hor	74.00	3	-02.90
F_{LOW}	2422	OFDM	2385	47.64	RMS	hor	54.00	3	-06.36
F_{LOW}	2422	OFDM	2388	70.63	pk	hor	74.00	3	-03.37
F_{LOW}	2422	OFDM	2388	50.24	RMS	hor	54.00	3	-03.76
F_{LOW}	2422	OFDM	2390	70.41	pk	ver	74.00	3	-03.59
F_{LOW}	2422	OFDM	2390	49.35	RMS	ver	54.00	3	-04.65
F_{MID}	2437	OFDM	2344	44.42	pk	ver	74.00	3	-29.58
F_{MID}	2437	OFDM	2344	27.07	RMS	ver	54.00	3	-26.93
F_{MID}	2437	OFDM	2364	52.00	pk	ver	74.00	3	-22.00
F_{MID}	2437	OFDM	2364	28.18	RMS	ver	54.00	3	-25.82
F_{MID}	2437	OFDM	2367	49.27	pk	ver	74.00	3	-24.73
F_{MID}	2437	OFDM	2367	28.20	RMS	ver	54.00	3	-25.80
F_{MID}	2437	OFDM	2370	54.91	pk	hor	74.00	3	-19.09
F_{MID}	2437	OFDM	2370	29.69	RMS	hor	54.00	3	-24.31
F_{MID}	2437	OFDM	2374	57.48	pk	hor	74.00	3	-16.52
F_{MID}	2437	OFDM	2374	30.69	RMS	hor	54.00	3	-23.31
F_{MID}	2437	OFDM	2376	53.93	pk	ver	74.00	3	-20.07
F_{MID}	2437	OFDM	2376	29.06	RMS	ver	54.00	3	-24.94
F_{MID}	2437	OFDM	2378	55.11	pk	ver	74.00	3	-18.89
F_{MID}	2437	OFDM	2380	56.20	pk	hor	74.00	3	-17.80

F_{MID}	2437	OFDM	2384	59.10	pk	hor	74.00	3	-14.90
F_{MID}	2437	OFDM	2384	34.41	RMS	hor	54.00	3	-19.59
F_{MID}	2437	OFDM	2388	59.71	pk	ver	74.00	3	-14.29
F_{MID}	2437	OFDM	2388	36.99	RMS	ver	54.00	3	-17.01
F_{MID}	2437	OFDM	2389	60.52	pk	hor	74.00	3	-13.48
F_{MID}	2437	OFDM	2389	39.22	RMS	hor	54.00	3	-14.78
F_{MID}	2437	OFDM	2390	60.33	pk	ver	74.00	3	-13.67
F_{MID}	2437	OFDM	2390	39.16	RMS	ver	54.00	3	-14.84
F_{MID}	2437	OFDM	2392	64.01	pk	hor	95.00	3	-30.99
F_{MID}	2437	OFDM	2484	54.88	pk	ver	74.00	3	-19.12
F_{MID}	2437	OFDM	2484	59.20	pk	ver	74.00	3	-14.80
F_{MID}	2437	OFDM	2484	38.71	RMS	ver	54.00	3	-15.29
F_{MID}	2437	OFDM	2484	62.37	pk	hor	74.00	3	-11.63
F_{MID}	2437	OFDM	2484	41.84	RMS	hor	54.00	3	-12.16
F_{MID}	2437	OFDM	2487	57.67	pk	hor	74.00	3	-16.33
F_{MID}	2437	OFDM	2488	59.18	pk	hor	74.00	3	-14.82
F_{MID}	2437	OFDM	2488	37.35	RMS	hor	54.00	3	-16.65
F_{MID}	2437	OFDM	2489	56.14	pk	ver	74.00	3	-17.86
F_{MID}	2437	OFDM	2489	33.81	RMS	ver	54.00	3	-20.19
F_{MID}	2437	OFDM	2491	56.58	pk	ver	74.00	3	-17.42
F_{MID}	2437	OFDM	2491	31.91	RMS	ver	54.00	3	-22.09
F_{MID}	2437	OFDM	2492	60.33	pk	hor	74.00	3	-13.67
F_{MID}	2437	OFDM	2492	35.43	RMS	hor	54.00	3	-18.57
F_{MID}	2437	OFDM	2494	55.97	pk	ver	74.00	3	-18.03
F_{MID}	2437	OFDM	2494	30.83	RMS	ver	54.00	3	-23.17
F_{MID}	2437	OFDM	2495	60.07	pk	hor	74.00	3	-13.93
F_{MID}	2437	OFDM	2495	34.80	RMS	hor	54.00	3	-19.20
F_{MID}	2437	OFDM	2499	58.71	pk	hor	74.00	3	-15.29
F_{MID}	2437	OFDM	2499	33.49	RMS	hor	54.00	3	-20.51
F_{MID}	2437	OFDM	2500	55.39	pk	ver	74.00	3	-18.61
F_{MID}	2437	OFDM	2500	29.39	RMS	ver	54.00	3	-24.61
F_{HIGH}	2452	OFDM	2385	54.81	pk	hor	74.00	3	-19.19
F_{HIGH}	2452	OFDM	2385	30.54	RMS	hor	54.00	3	-23.46
F_{HIGH}	2452	OFDM	2386	53.03	pk	ver	74.00	3	-20.97
F_{HIGH}	2452	OFDM	2386	57.43	pk	hor	74.00	3	-16.57
F_{HIGH}	2452	OFDM	2386	30.91	RMS	hor	54.00	3	-23.09

F_{HIGH}	2452	OFDM	2387	57.30	pk	hor	74.00	3	-16.70
F_{HIGH}	2452	OFDM	2387	31.11	RMS	hor	54.00	3	-22.89
F_{HIGH}	2452	OFDM	2389	54.71	pk	hor	74.00	3	-19.29
F_{HIGH}	2452	OFDM	2390	55.98	pk	hor	74.00	3	-18.02
F_{HIGH}	2452	OFDM	2390	31.80	RMS	hor	54.00	3	-22.20
F_{HIGH}	2452	OFDM	2484	69.81	pk	ver	74.00	3	-04.19
F_{HIGH}	2452	OFDM	2484	49.80	RMS	ver	54.00	3	-04.20
F_{HIGH}	2452	OFDM	2484	67.57	pk	hor	74.00	3	-06.43
F_{HIGH}	2452	OFDM	2484	49.48	RMS	hor	54.00	3	-04.52
F_{HIGH}	2452	OFDM	2487	68.36	pk	ver	74.00	3	-05.64
F_{HIGH}	2452	OFDM	2487	46.03	RMS	ver	54.00	3	-07.97
F_{HIGH}	2452	OFDM	2490	65.70	pk	ver	74.00	3	-08.30
F_{HIGH}	2452	OFDM	2490	45.90	RMS	ver	54.00	3	-08.10
F_{HIGH}	2452	OFDM	2492	64.59	pk	hor	74.00	3	-09.41
F_{HIGH}	2452	OFDM	2492	43.27	RMS	hor	54.00	3	-10.73
F_{HIGH}	2452	OFDM	2495	65.44	pk	ver	74.00	3	-08.56
F_{HIGH}	2452	OFDM	2495	41.85	RMS	ver	54.00	3	-12.15
F_{HIGH}	2452	OFDM	2495	65.85	pk	hor	74.00	3	-08.15
F_{HIGH}	2452	OFDM	2495	41.46	RMS	hor	54.00	3	-12.54
F_{HIGH}	2452	OFDM	2500	56.47	pk	ver	74.00	3	-17.53
F_{HIGH}	2452	OFDM	2500	35.35	RMS	ver	54.00	3	-18.65
F_{HIGH}	2452	OFDM	2500	57.36	pk	hor	74.00	3	-16.64
Comments: * Physical distance between EUT and measurement antenna.									

3.3 Test Conditions and Results – Receiver radiated emissions

Receiver radiated emissions acc. to IC RSS-210				**Verdict: PASS**
Test according referenced standards	Reference Method			
	IC RSS-210 A8.5			
Test according to measurement reference	Reference Method			
	ANSI C63.4			
Test frequency range	Tested frequencies			
	30 MHz – 5th Harmonic			
EUT test mode	Receive			
Limits				
Frequency range [MHz]	Detector	Limit [µV/m]	Limit [dBµV/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Test setup				



Test procedure
1. EUT set to receive mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels

Test results

Channel	Frequency [MHz]	Emission [MHz]	Emission Level [dbµV/m]	Emission Level [µV/m]	Det.	Limit [µV/m]	Margin [µV/m]
F_{MID}	2437	30	27.74	24.38	pk	100.00	-75.62
F_{MID}	2437	31.02	28.38	26.24	pk	100.00	-73.76
F_{MID}	2437	32.04	27.45	23.58	pk	100.00	-76.42
F_{MID}	2437	106.84	32.89	44.11	pk	150.00	-105.89
F_{MID}	2437	165.66	32.27	41.07	pk	150.00	-108.93
F_{MID}	2437	187.08	31.79	38.86	pk	150.00	-111.14
F_{MID}	2437	197.28	31.38	37.07	pk	150.00	-112.93
F_{MID}	2437	197.96	31.52	37.67	pk	150.00	-112.33
F_{MID}	2437	198.64	31.50	37.58	pk	150.00	-112.42
F_{MID}	2437	199.66	31.28	36.64	pk	150.00	-113.36
F_{MID}	2437	220.8	31.89	39.31	pk	200.00	-160.69
F_{MID}	2437	224	34.52	53.21	pk	200.00	-146.79
F_{MID}	2437	249.6	20.01	10.01	pk	200.00	-189.99
F_{MID}	2437	273.6	21.07	11.31	pk	200.00	-188.69
F_{MID}	2437	524.8	22.67	13.60	pk	200.00	-186.40
F_{MID}	2437	524.8	24.25	16.31	pk	200.00	-183.69
F_{MID}	2437	600	27.62	24.04	pk	200.00	-175.96
F_{MID}	2437	878.4	33.49	47.26	pk	200.00	-152.74
F_{MID}	2437	915.2	31.06	35.73	pk	200.00	-164.27
F_{MID}	2437	3688	43.41	148.08	pk	500.00	-351.92
F_{MID}	2437	3898	42.87	139.16	pk	500.00	-360.84
F_{MID}	2437	3940	42.87	139.16	pk	500.00	-360.84
F_{MID}	2437	7736	52.76	434.51	pk	500.00	-65.49
F_{MID}	2437	7808	51.39	371.11	pk	500.00	-128.89

Comments:
* Physical distance between EUT and measurement antenna.
** Emission level corresponds to ambient noise floor

ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 1; 2412 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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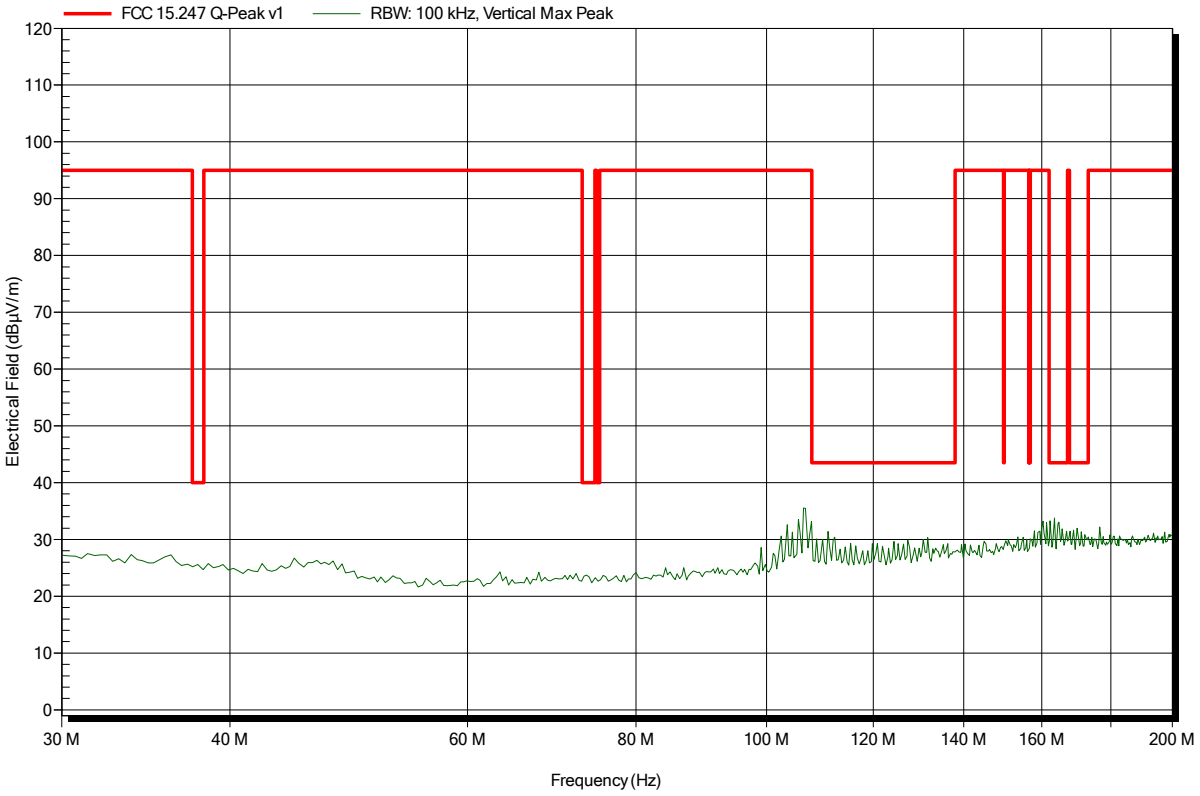

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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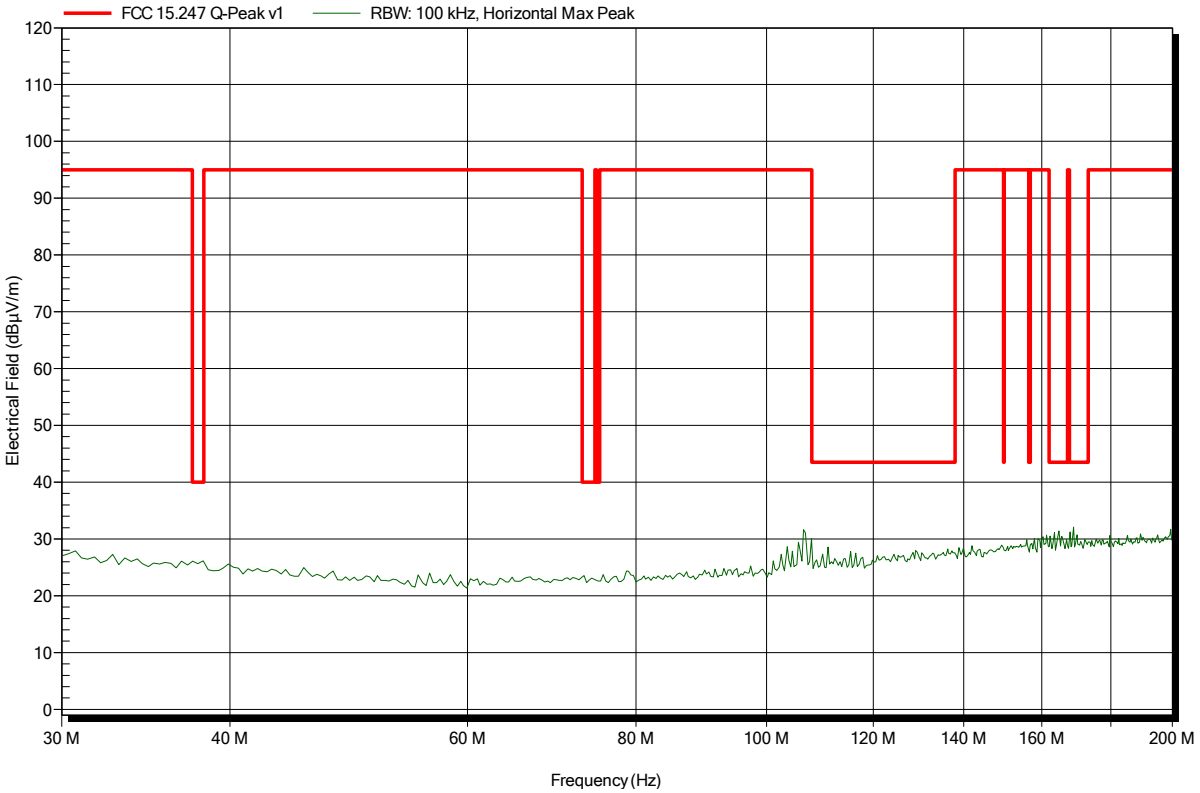

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 6; 2437 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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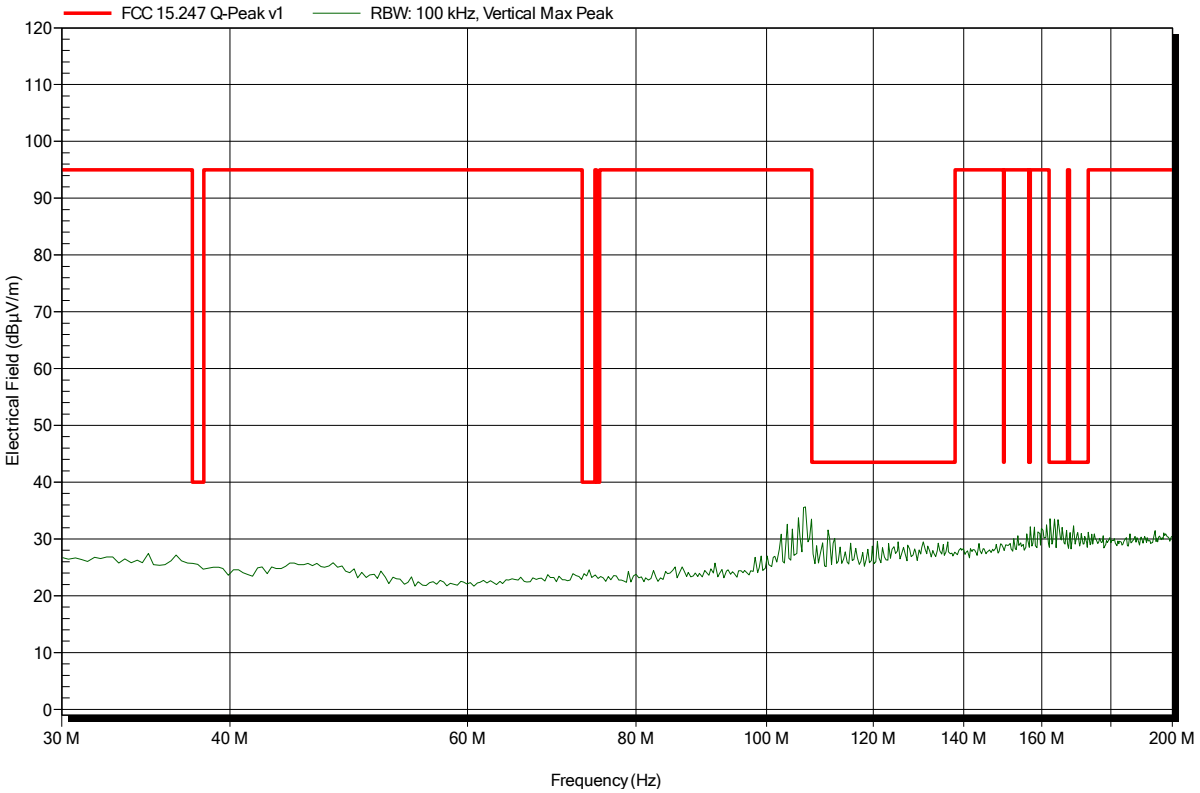

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch.6; 2437 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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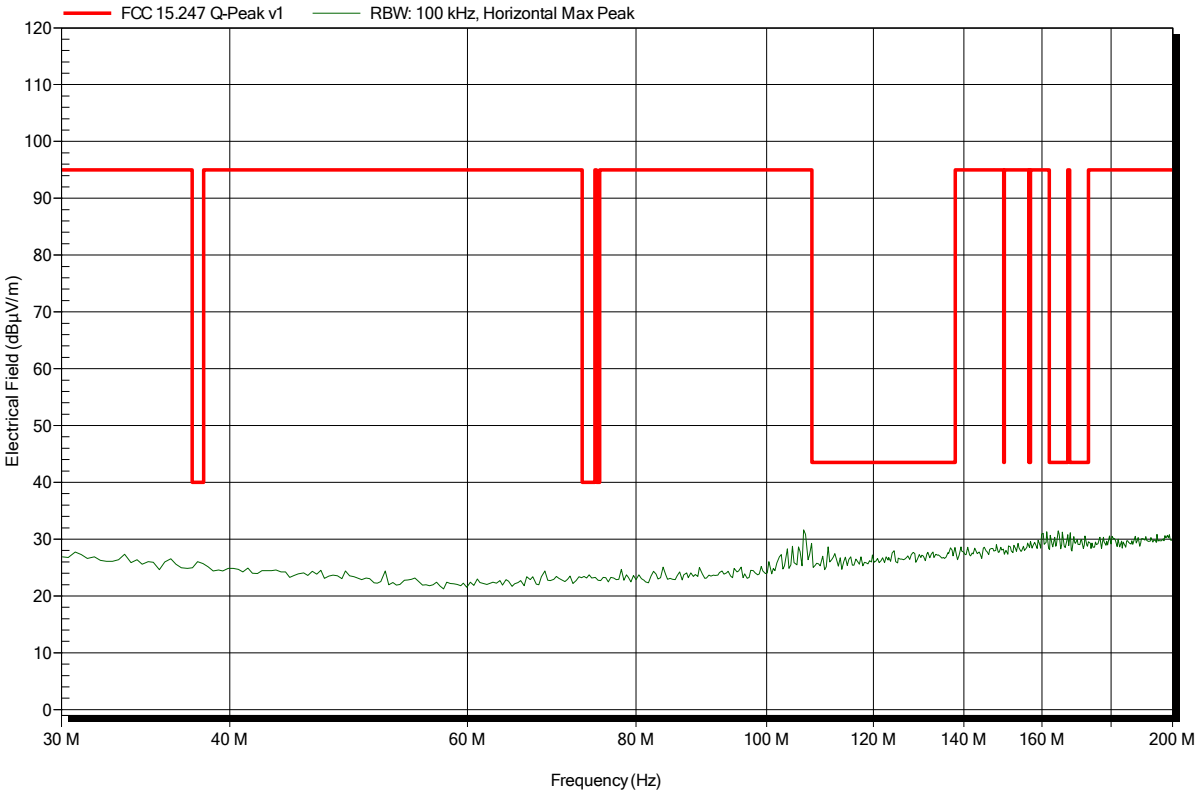

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 11; 2462 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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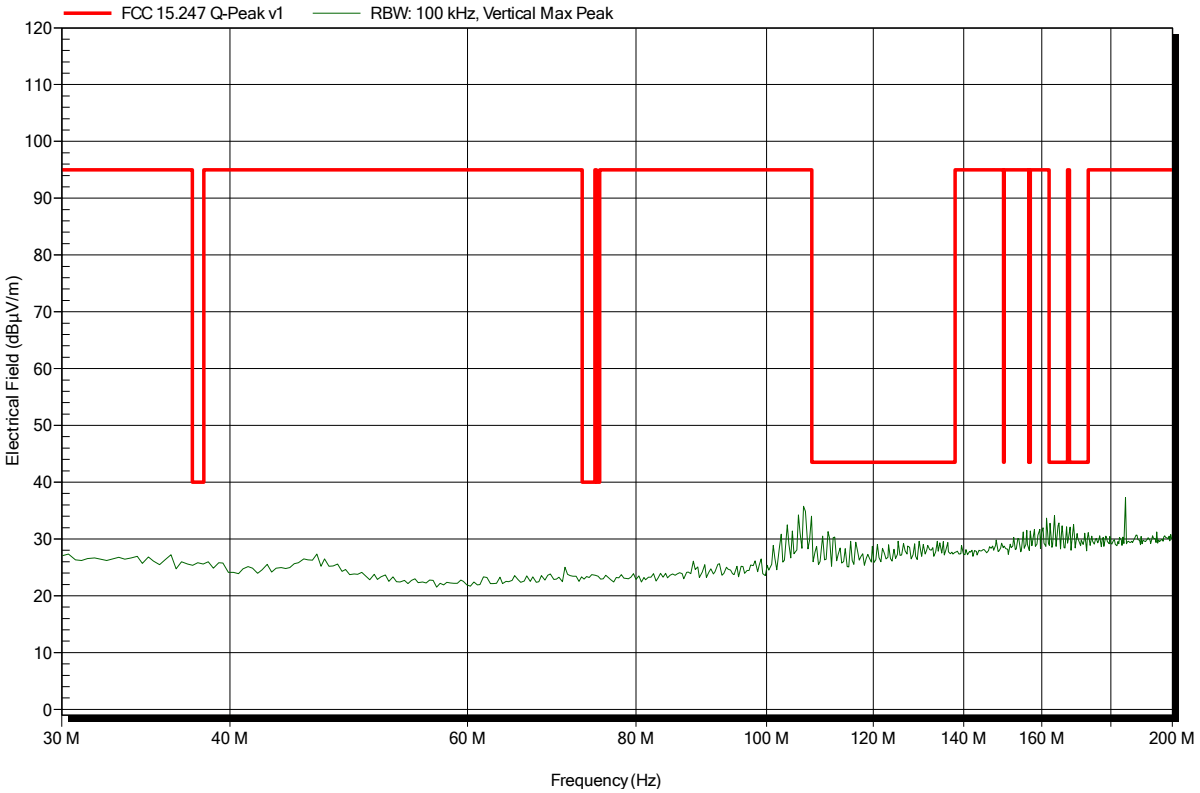

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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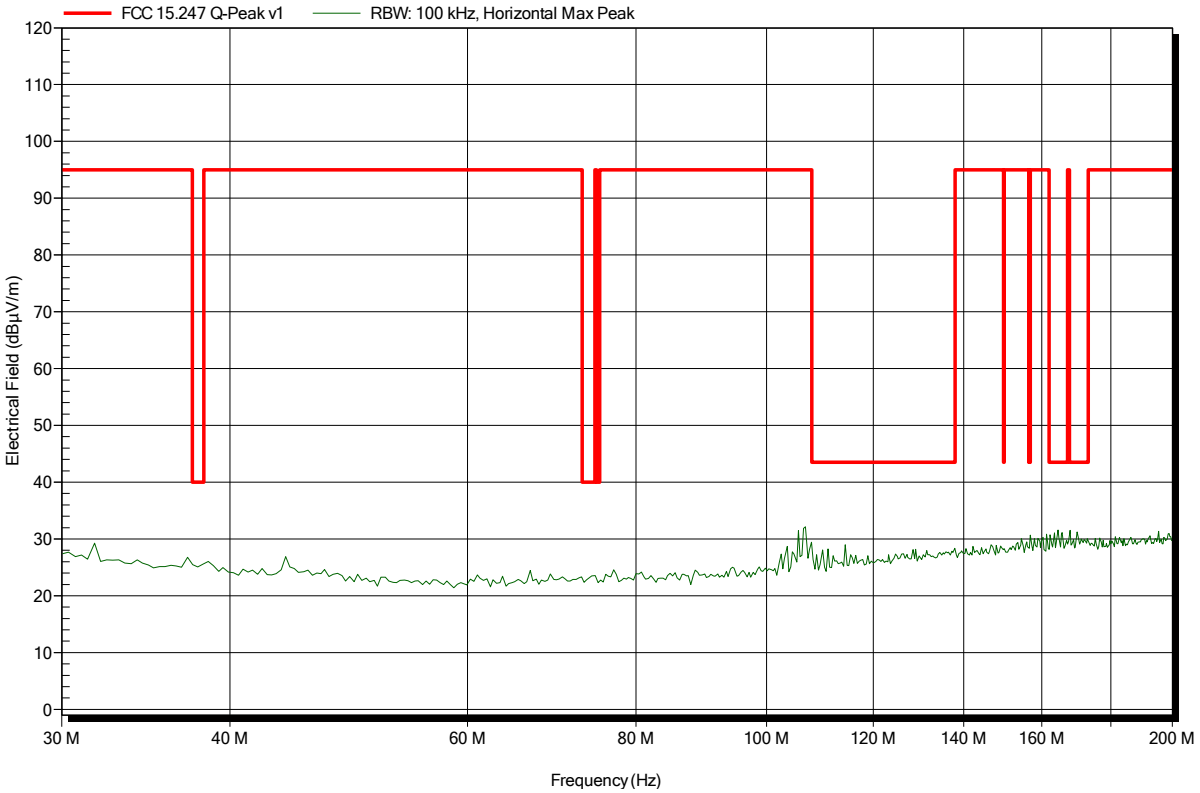

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 1; 2412 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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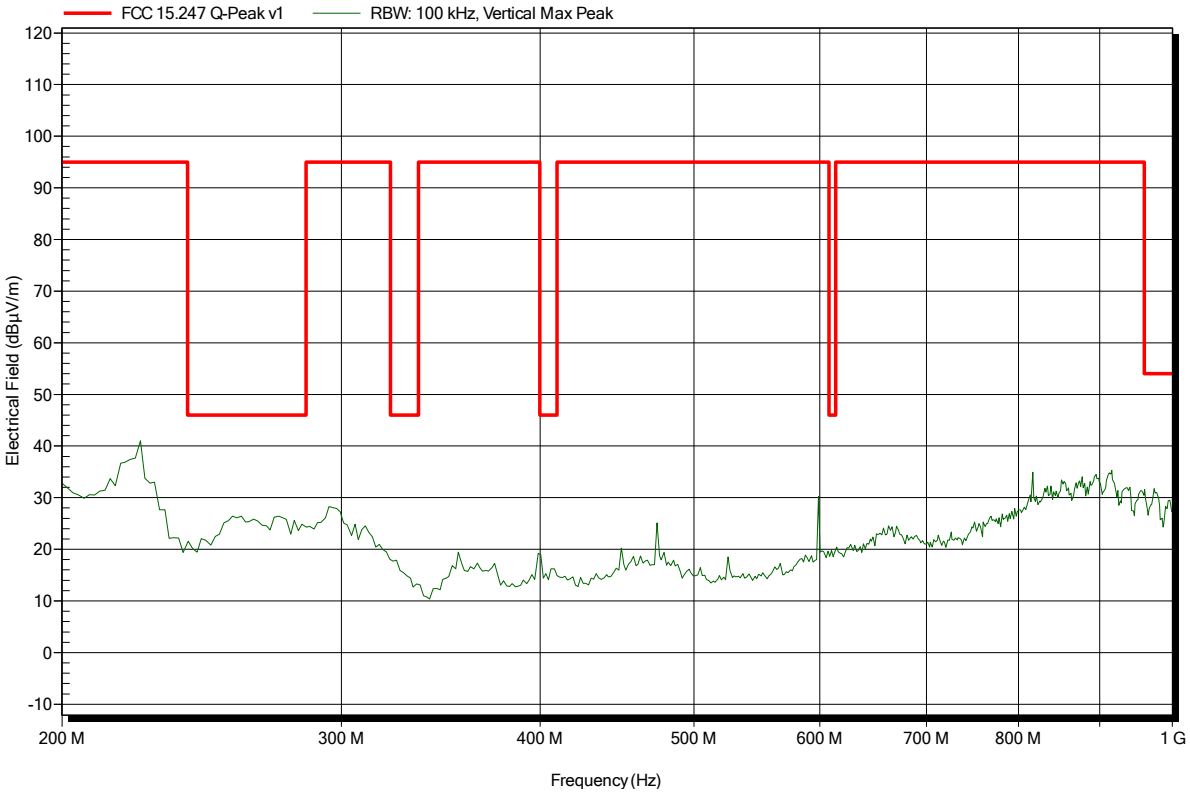

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 1; 2412 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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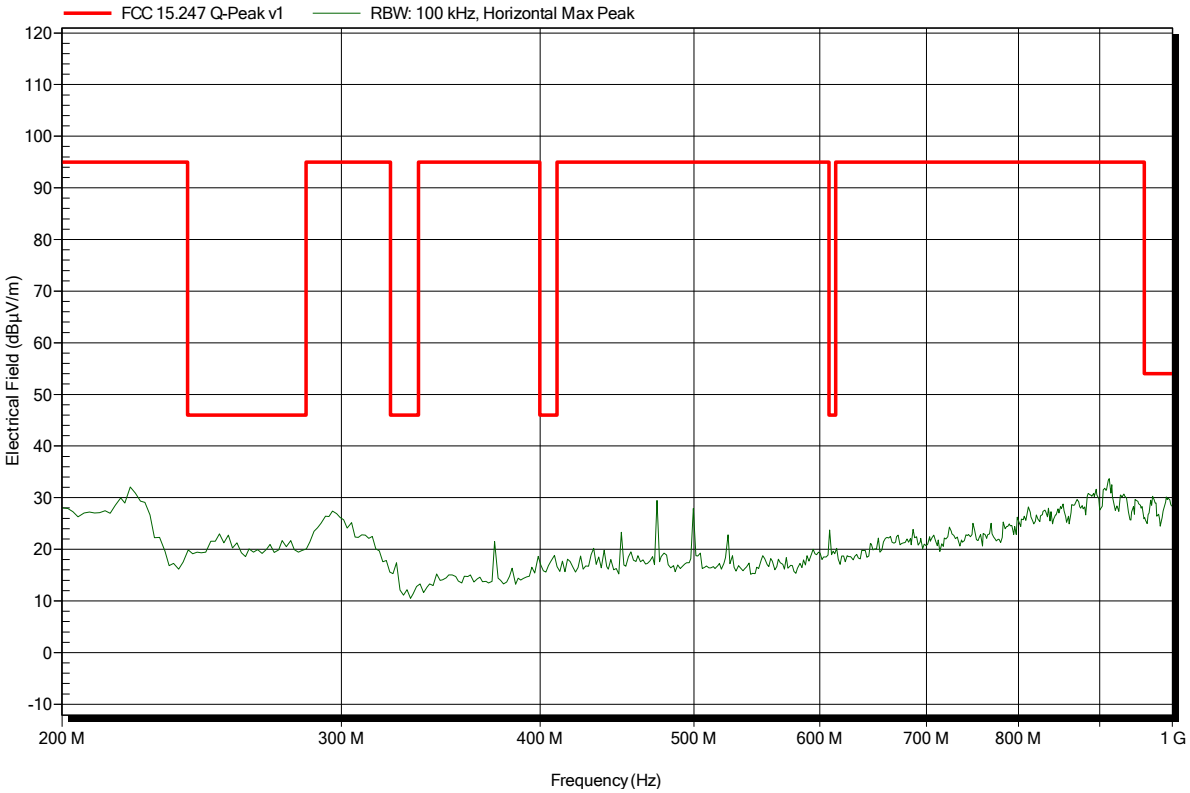

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 6; 2437 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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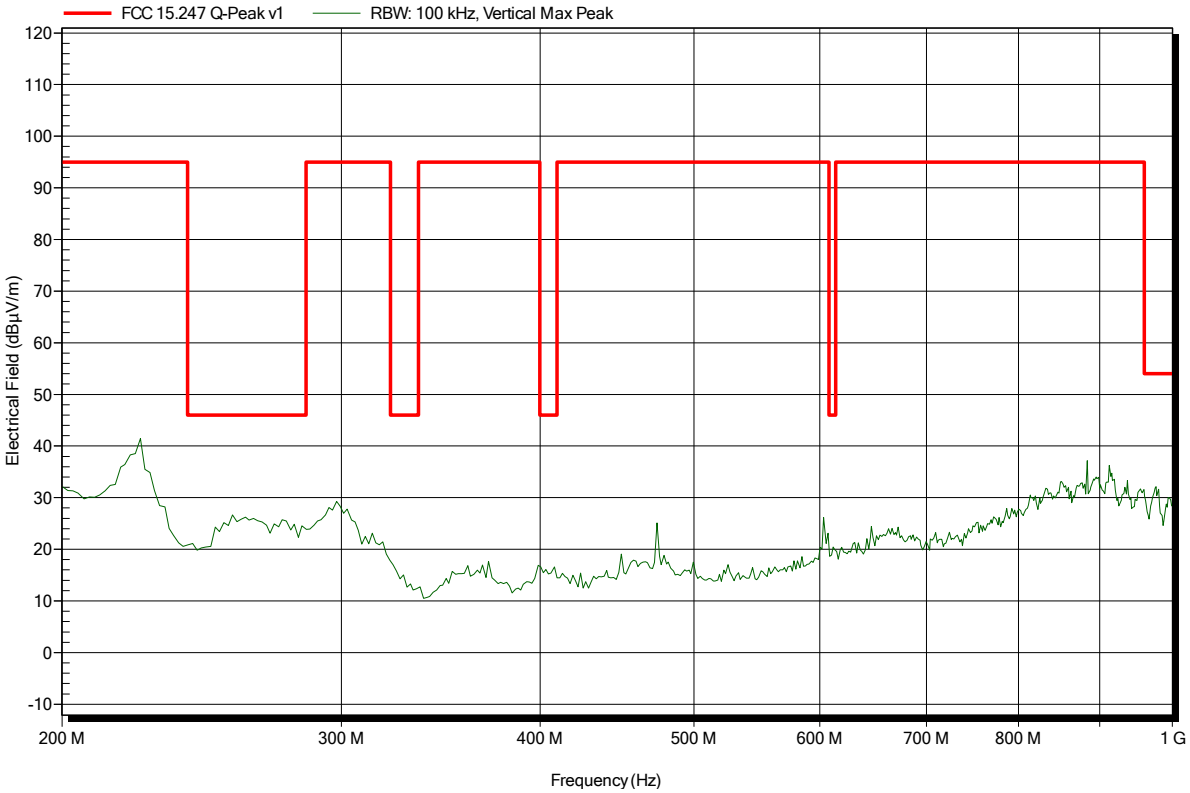

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 6; 2437 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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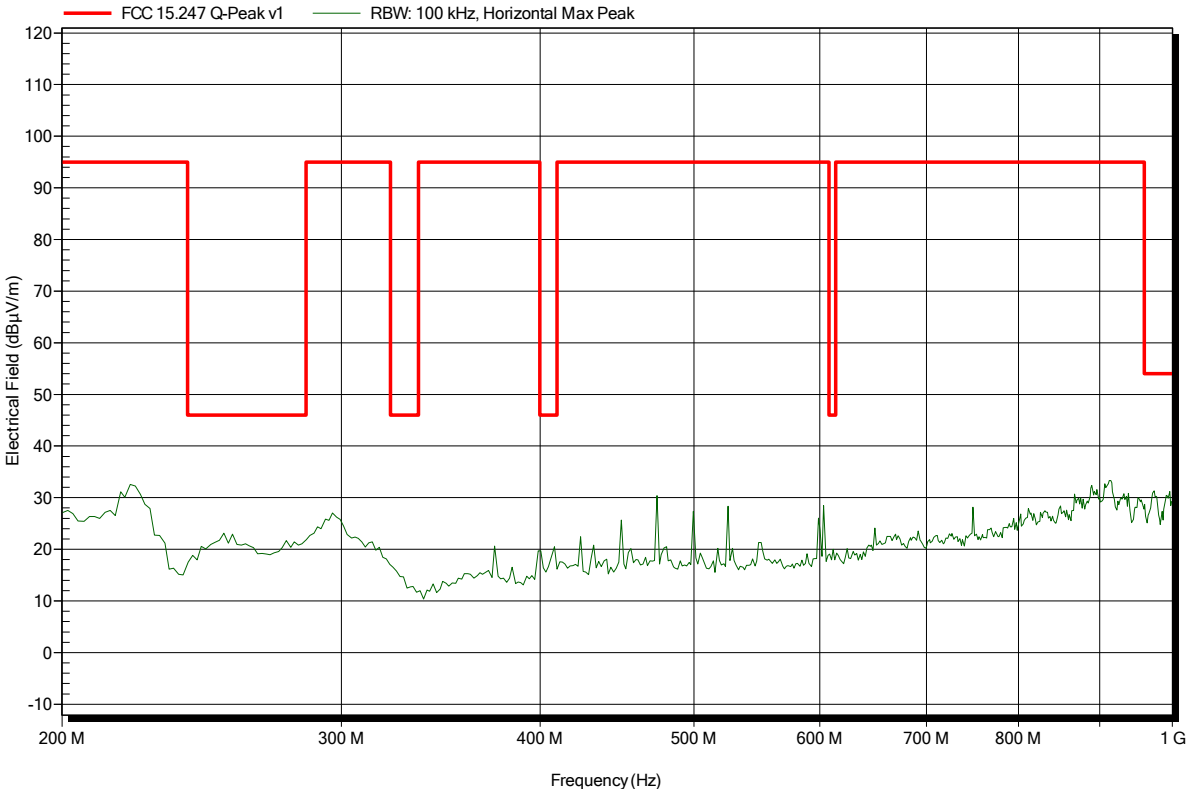

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 11; 2462 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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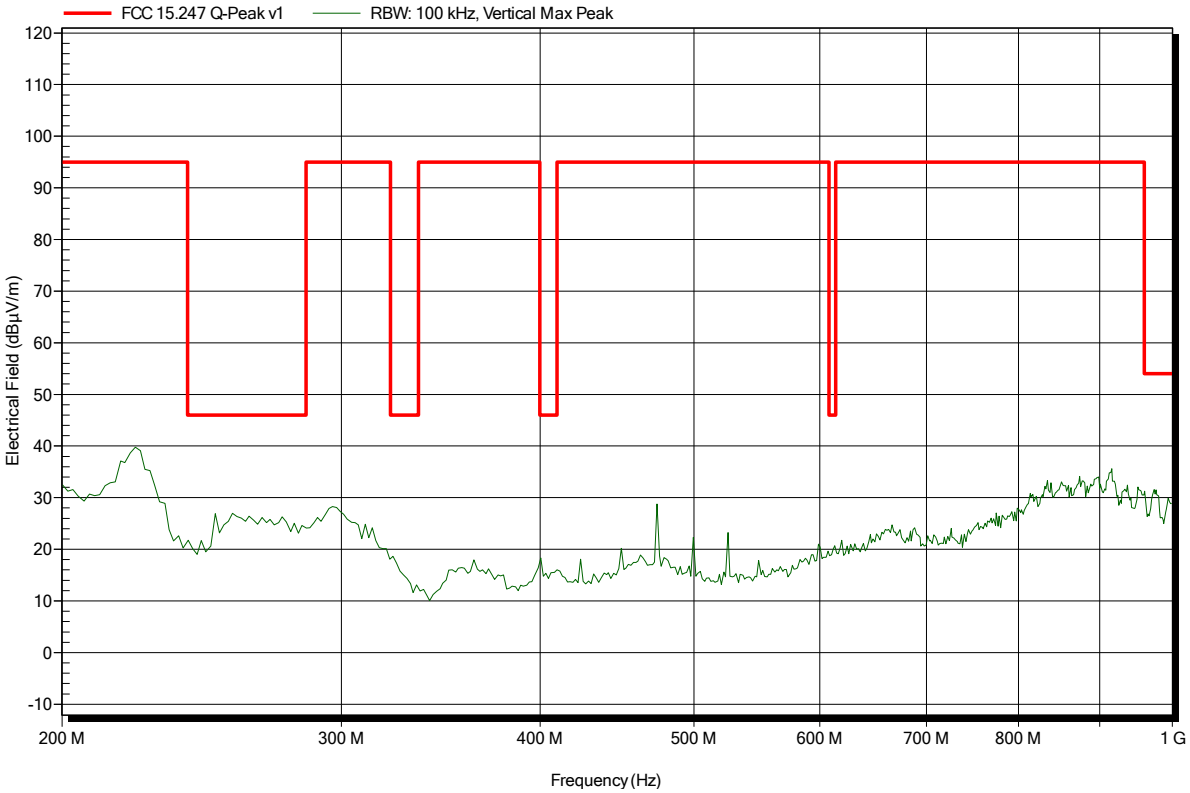

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 11; 2462 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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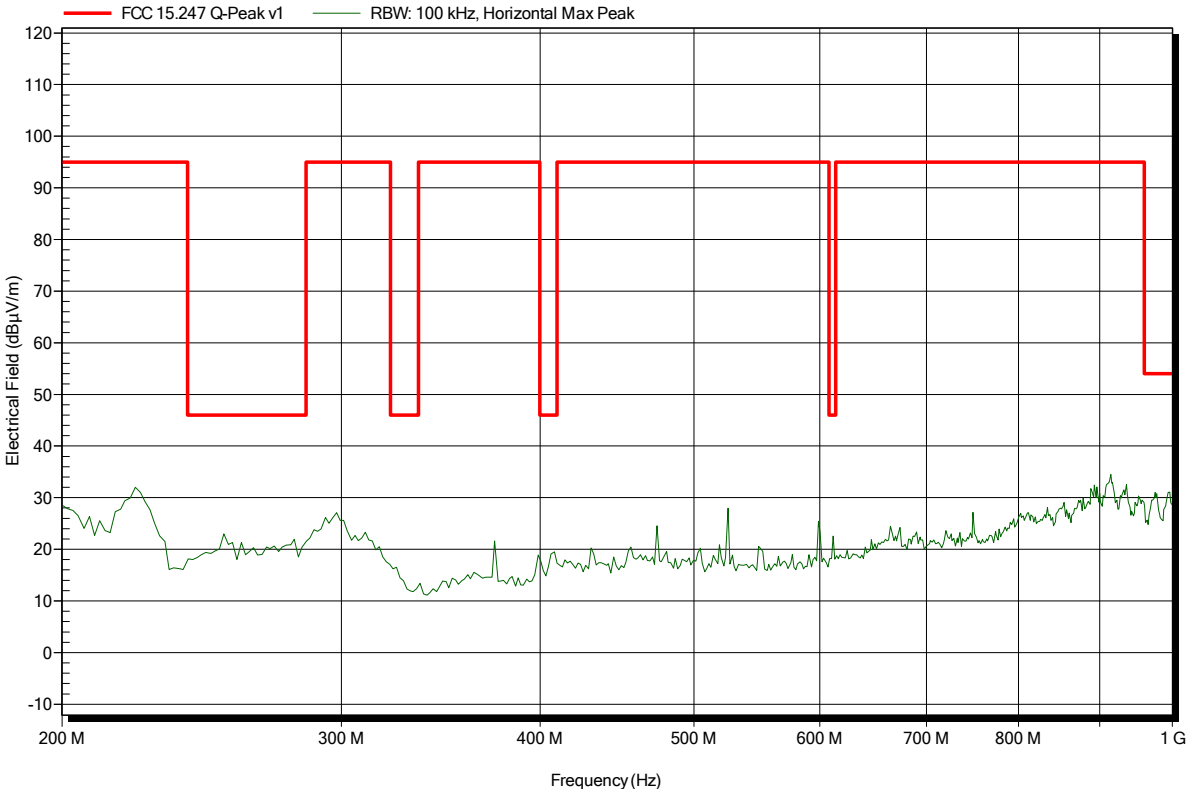

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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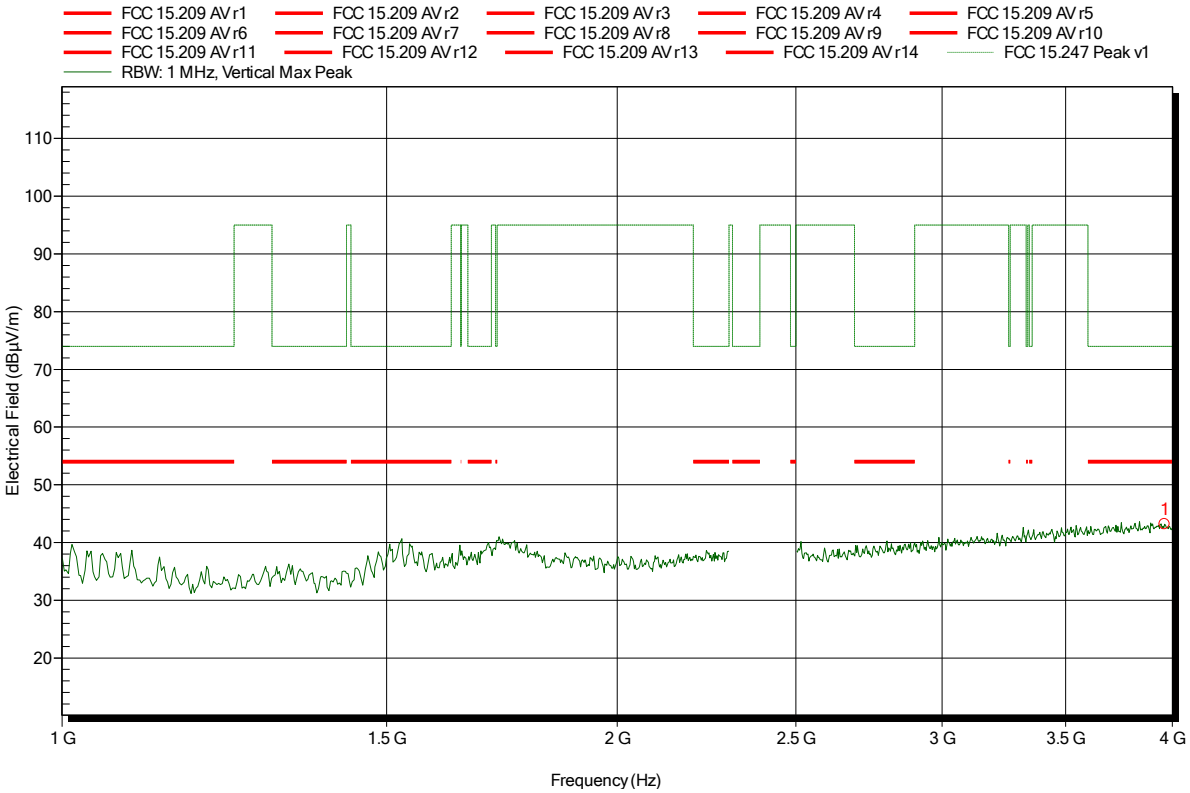

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
3.961 GHz	43.16 dBµV/m	74 dBµV/m	-30.84 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical; lower band edge

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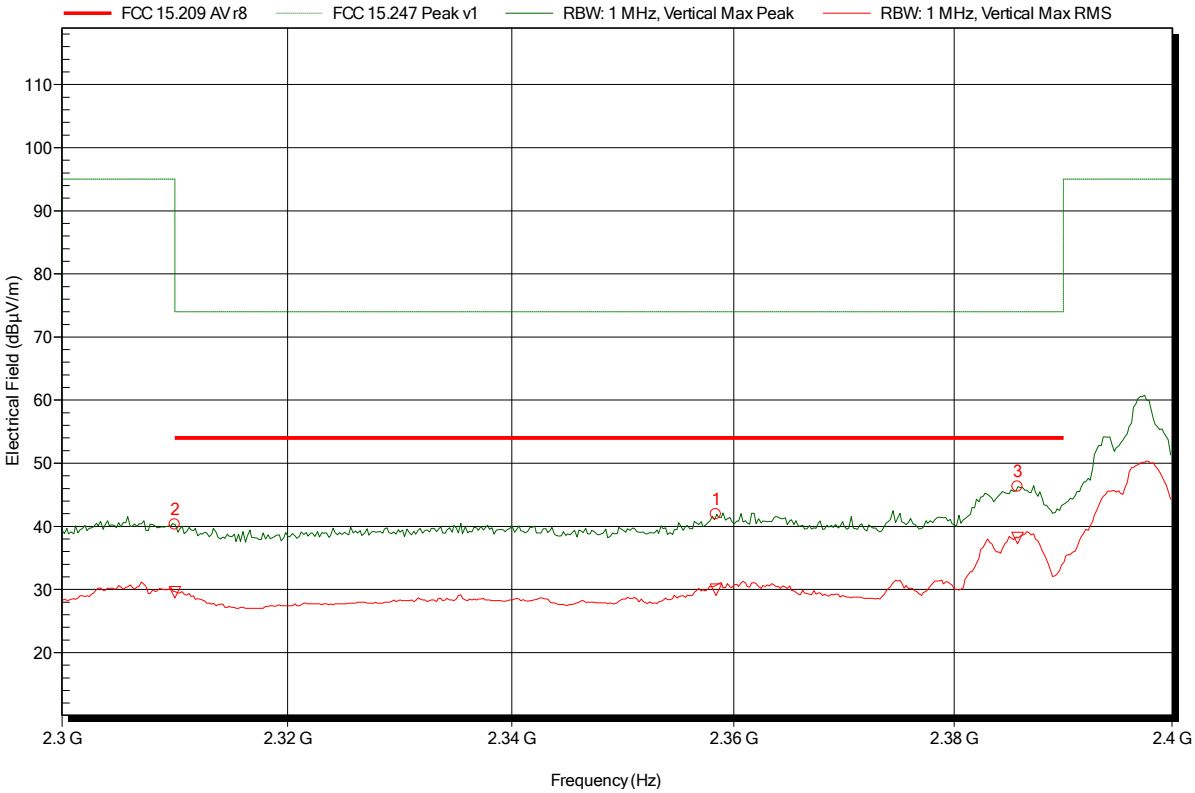

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.31 GHz	40.27 dBµV/m	74 dBµV/m	-33.73 dB	Pass
2.358 GHz	41.91 dBµV/m	74 dBµV/m	-32.09 dB	Pass
2.386 GHz	46.29 dBµV/m	74 dBµV/m	-27.71 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.31 GHz	29.55 dBµV/m	54 dBµV/m	-24.45 dB	Pass
2.358 GHz	29.95 dBµV/m	54 dBµV/m	-24.05 dB	Pass
2.386 GHz	38.17 dBµV/m	54 dBµV/m	-15.83 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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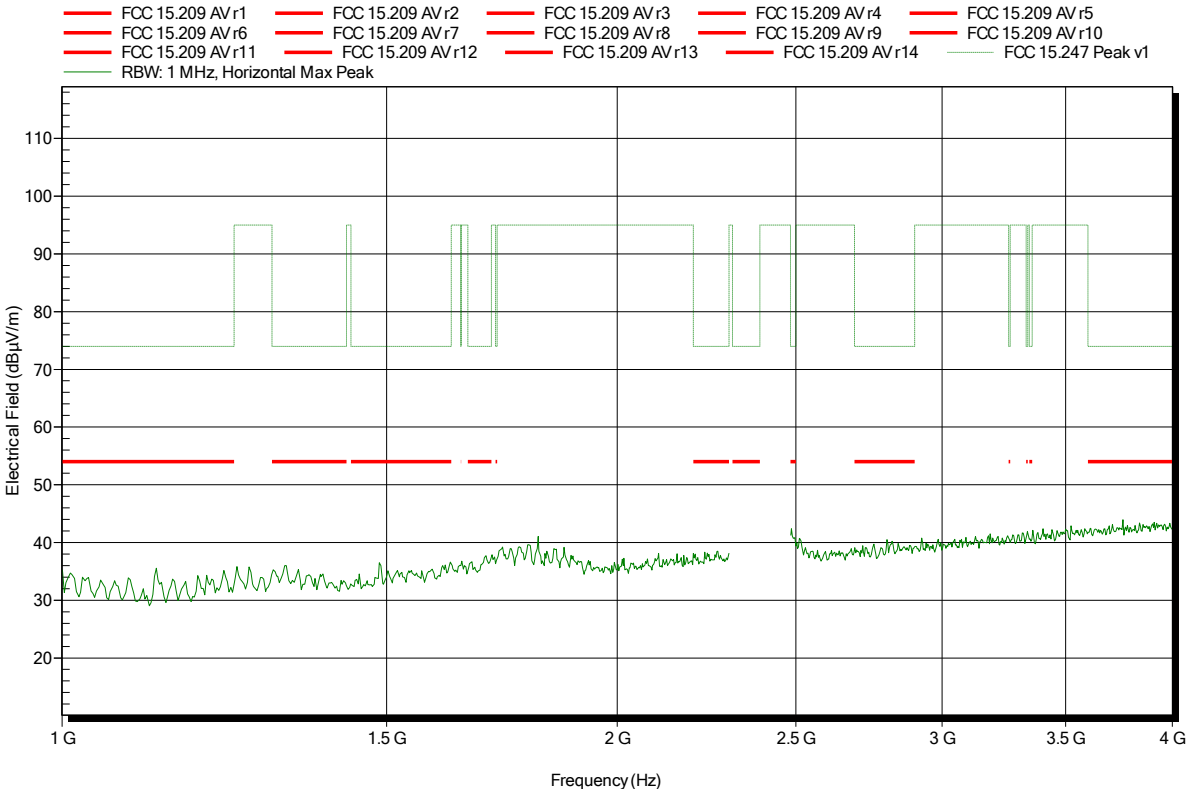

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower band edge

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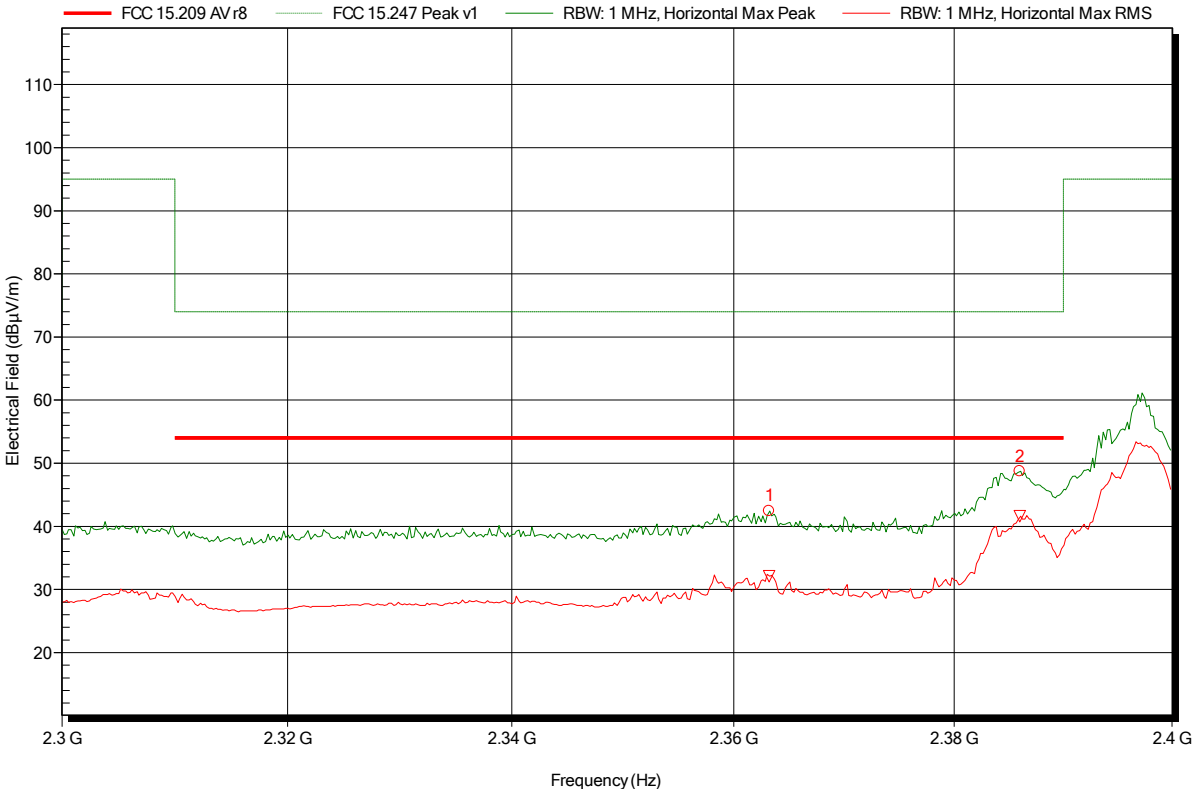

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.363 GHz	42.41 dBµV/m	74 dBµV/m	-31.59 dB	Pass
2.386 GHz	48.73 dBµV/m	74 dBµV/m	-25.27 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.363 GHz	32.11 dBµV/m	54 dBµV/m	-21.89 dB	Pass
2.386 GHz	41.6 dBµV/m	54 dBµV/m	-12.4 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch.6; 2437 MHz; 1 Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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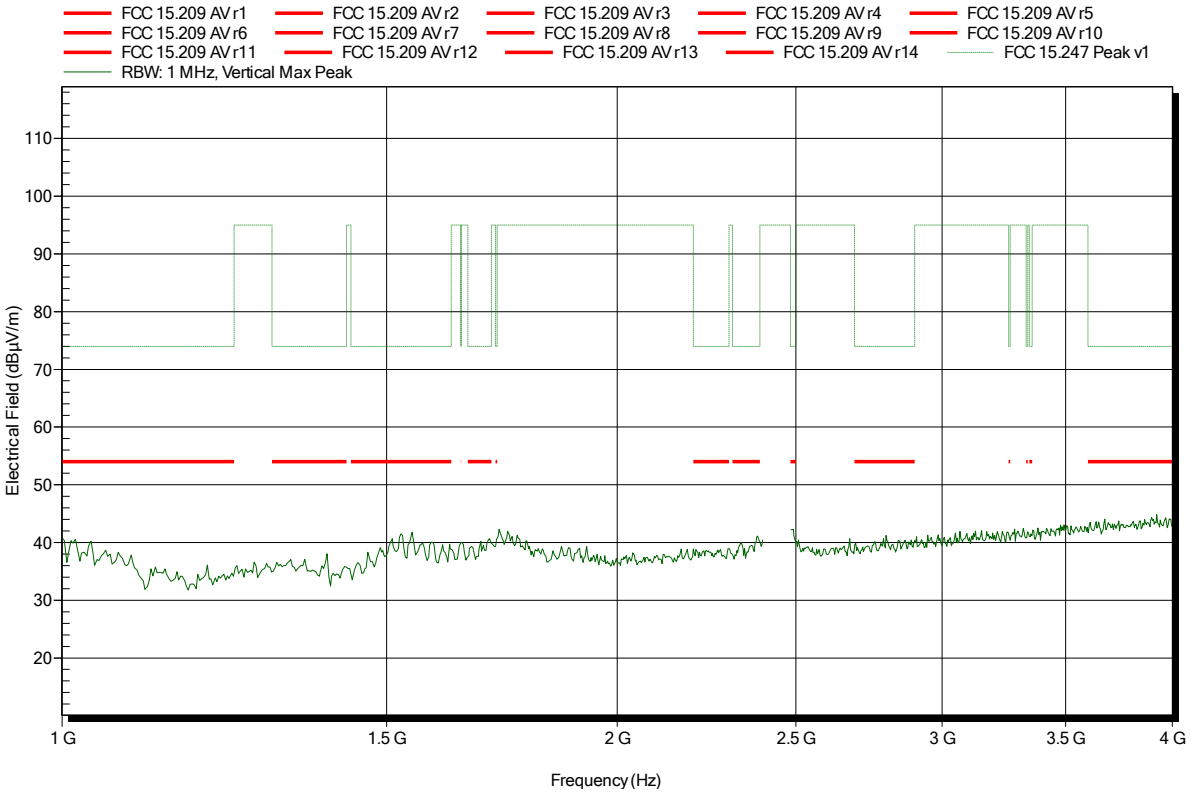

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 6; 2437 MHz; 1 Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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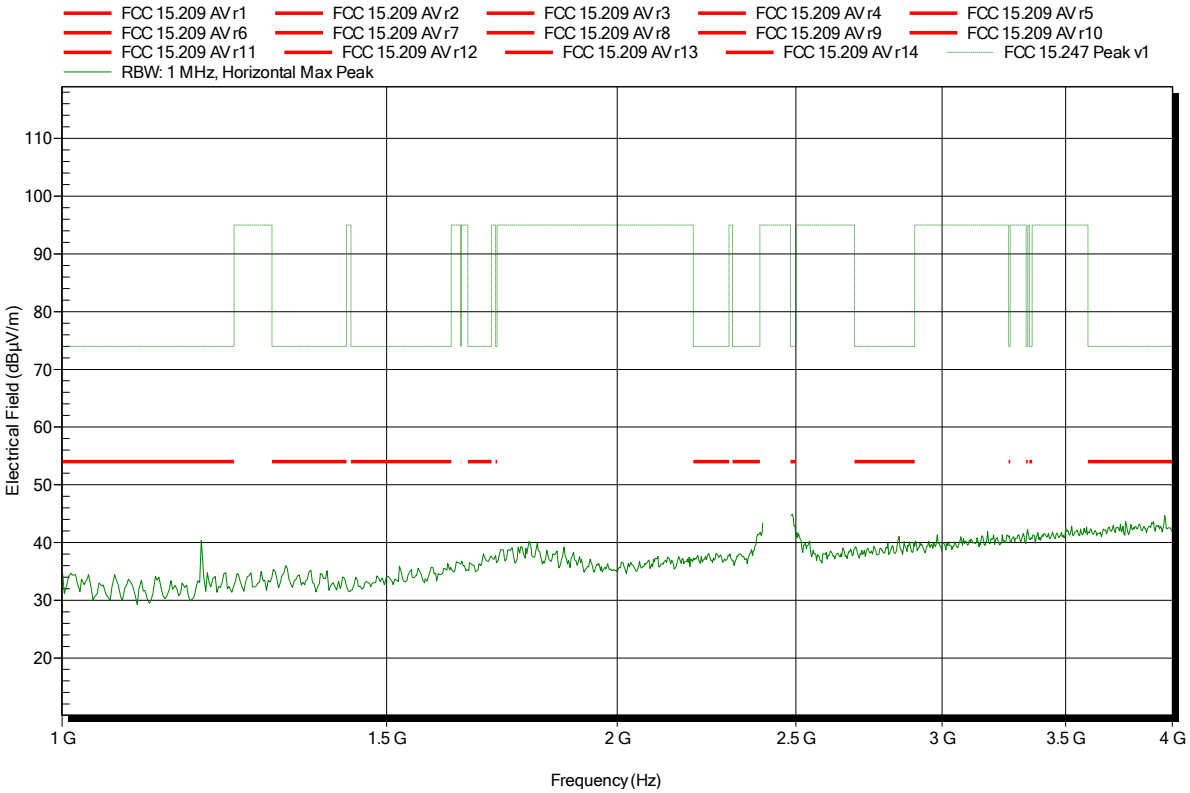

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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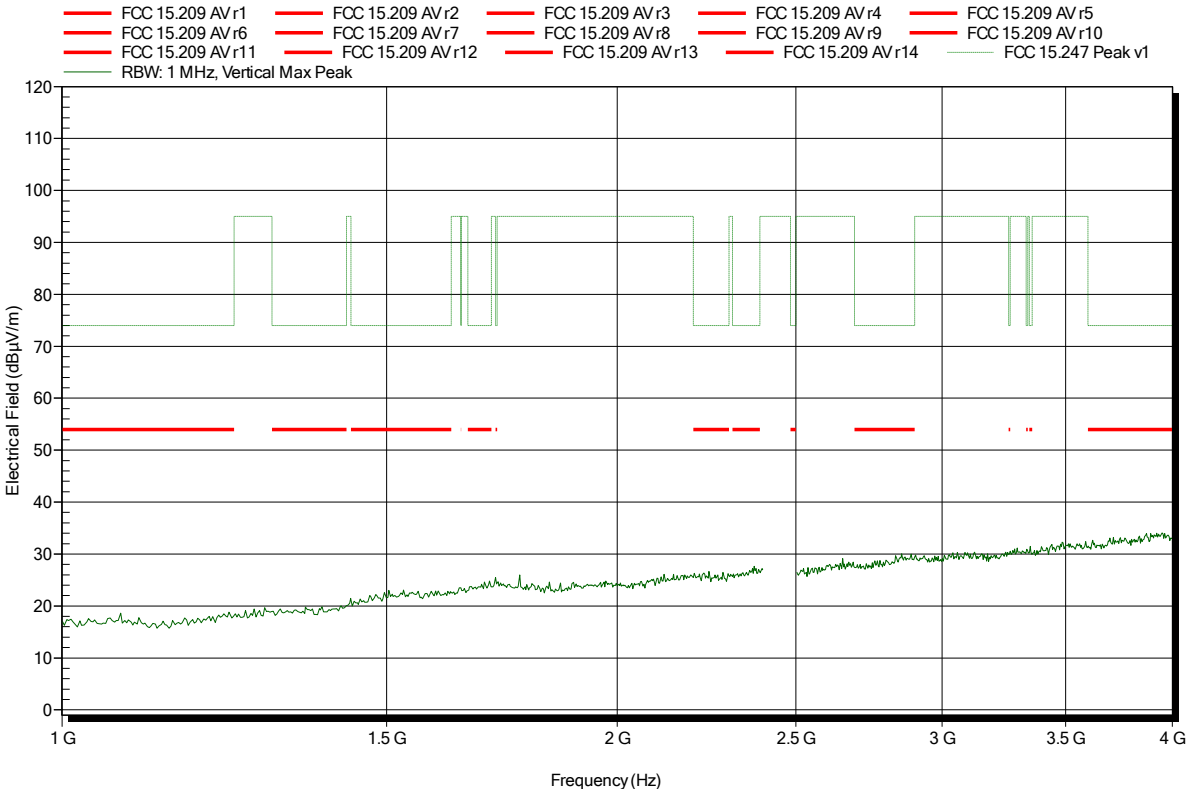

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; higher band edge

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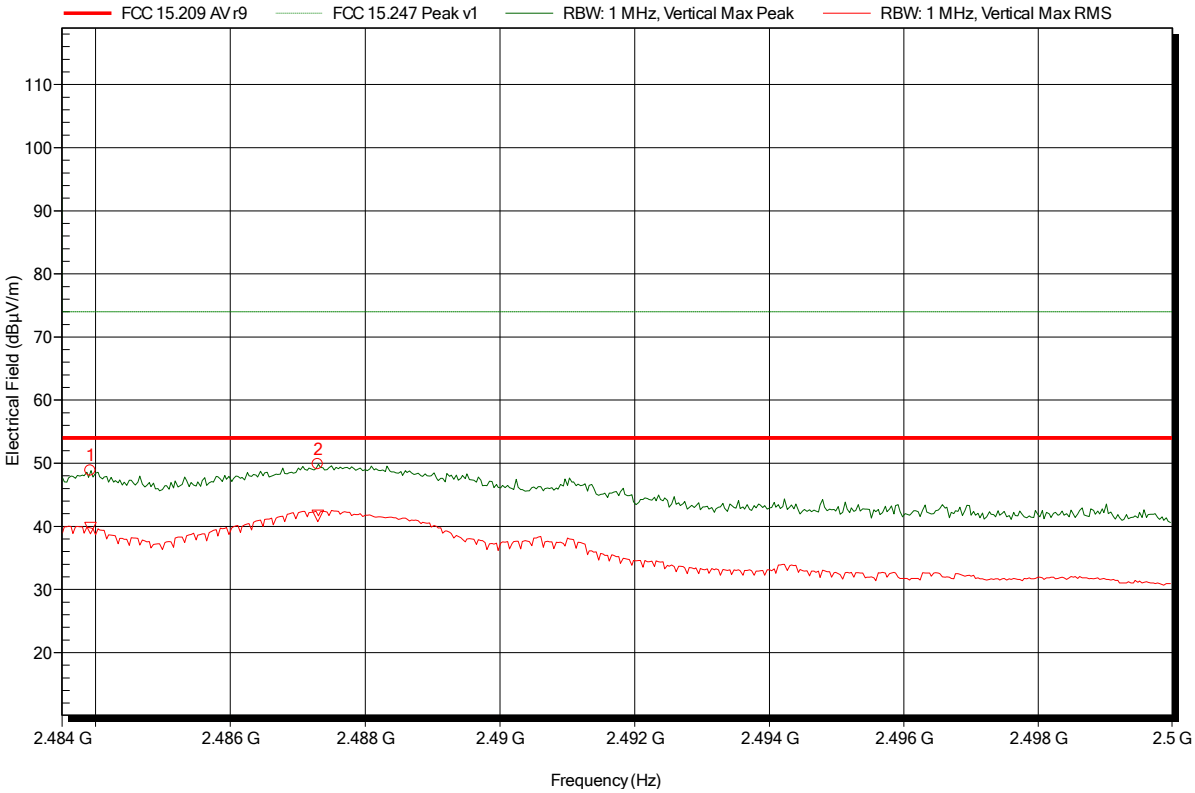

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	48.82 dBµV/m	74 dBµV/m	-25.18 dB	Pass
2.487 GHz	49.87 dBµV/m	74 dBµV/m	-24.13 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.484 GHz	39.74 dBµV/m	54 dBµV/m	-14.26 dB	Pass
2.487 GHz	41.67 dBµV/m	54 dBµV/m	-12.33 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 11; 2462 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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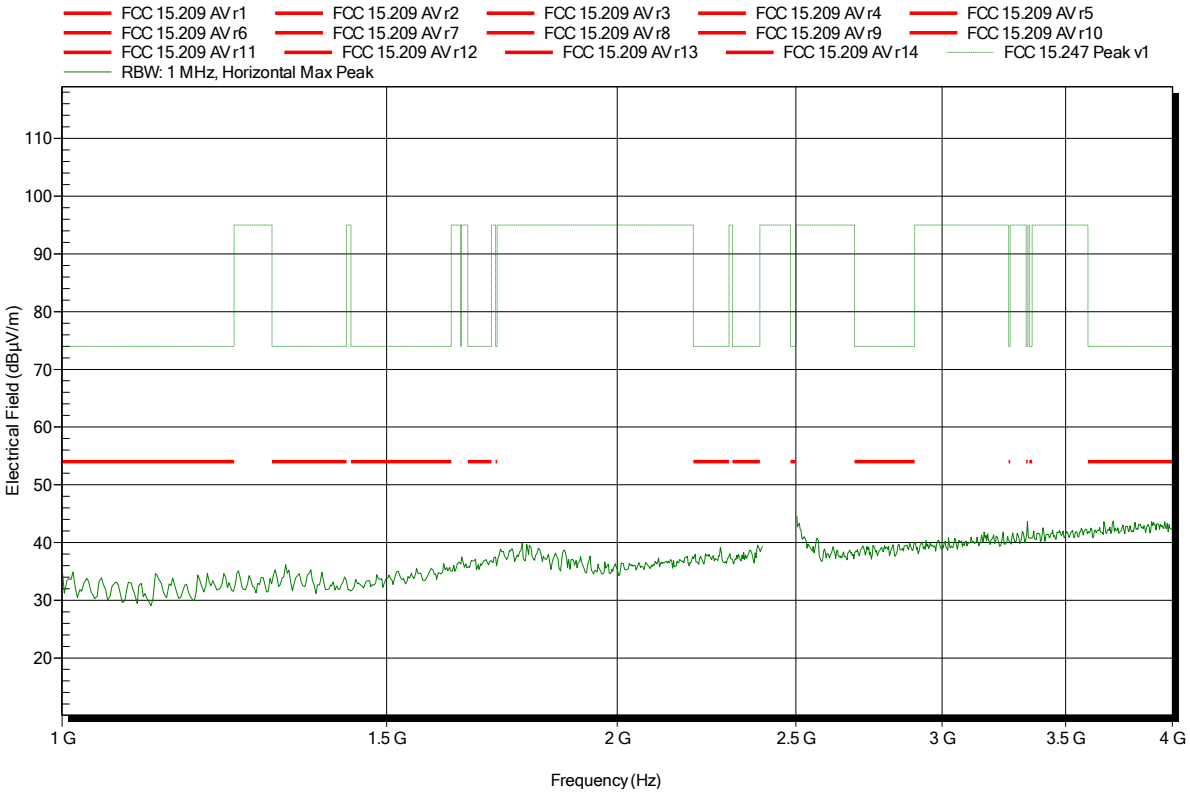

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11b; Ch. 11; 2462 MHz; 1Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; higher band edge

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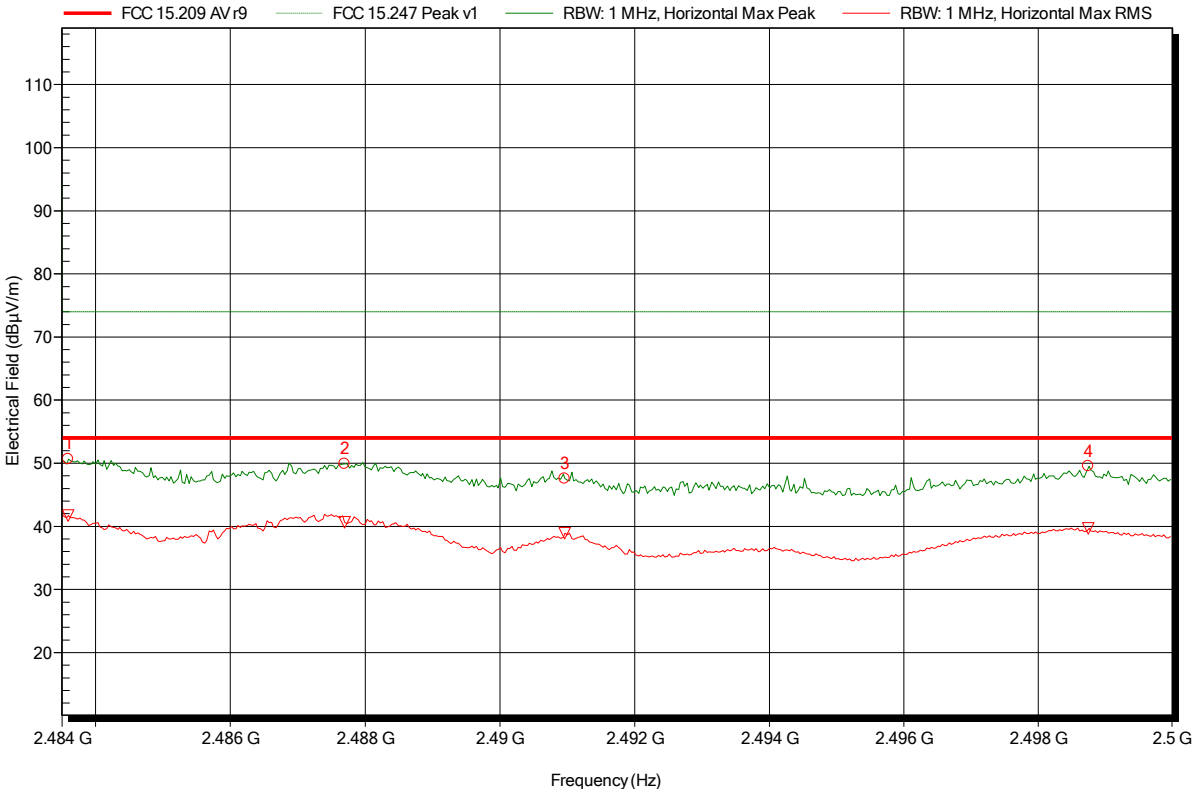

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	50.66 dBµV/m	74 dBµV/m	-23.34 dB	Pass
2.488 GHz	49.9 dBµV/m	74 dBµV/m	-24.1 dB	Pass
2.491 GHz	47.55 dBµV/m	74 dBµV/m	-26.45 dB	Pass
2.499 GHz	49.55 dBµV/m	74 dBµV/m	-24.45 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.484 GHz	41.7 dBµV/m	54 dBµV/m	-12.3 dB	Pass
2.488 GHz	40.64 dBµV/m	54 dBµV/m	-13.36 dB	Pass
2.491 GHz	38.94 dBµV/m	54 dBµV/m	-15.06 dB	Pass
2.499 GHz	39.68 dBµV/m	54 dBµV/m	-14.32 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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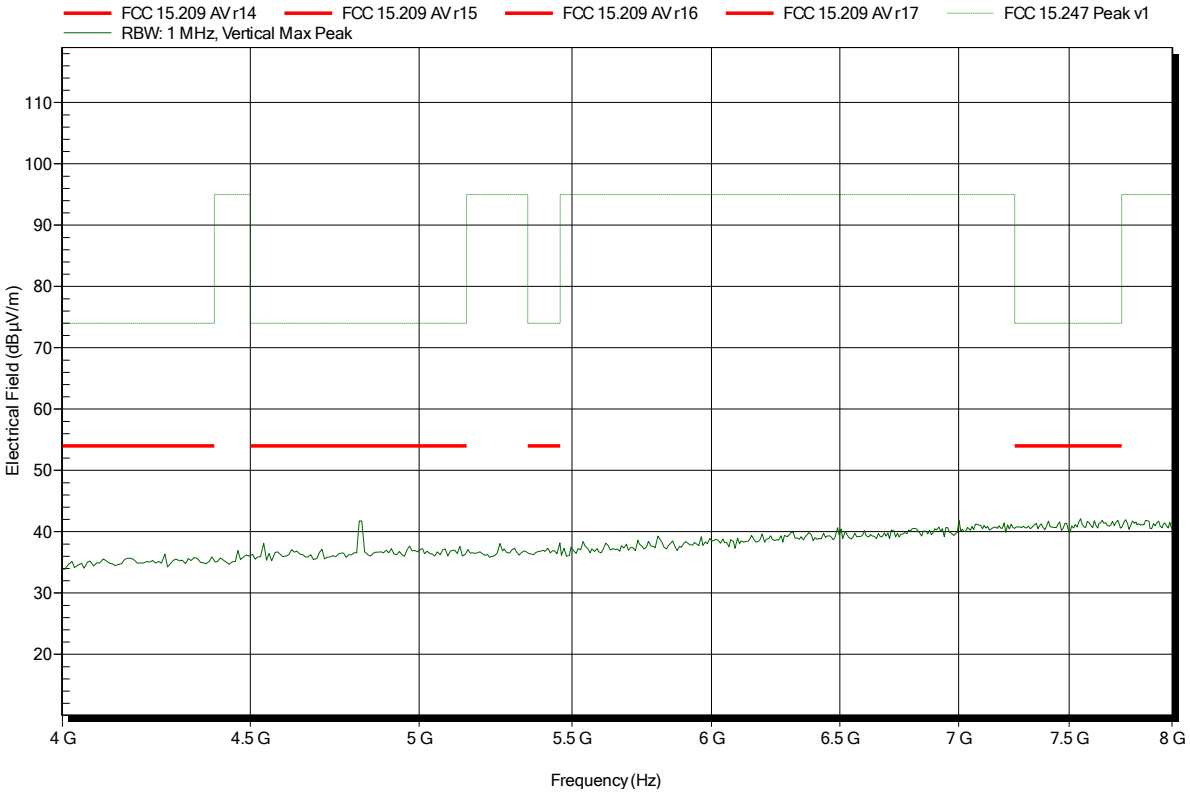

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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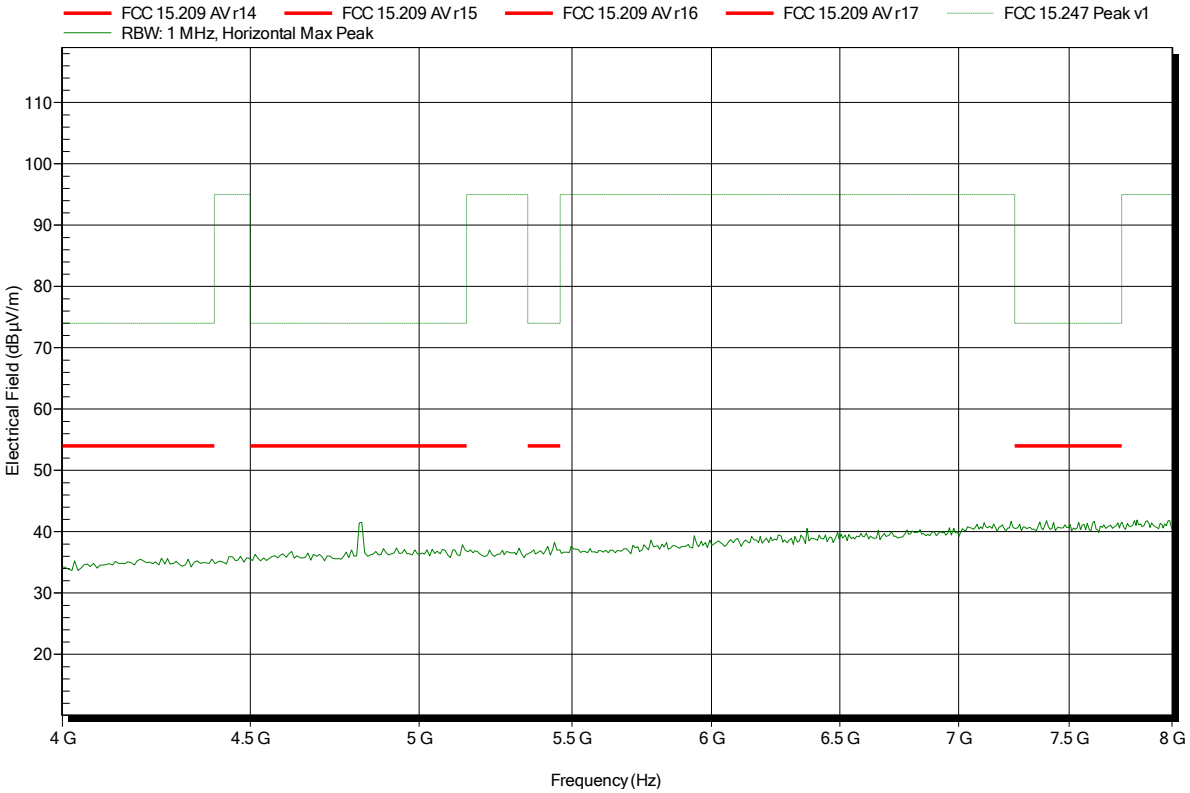

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.6; 2432 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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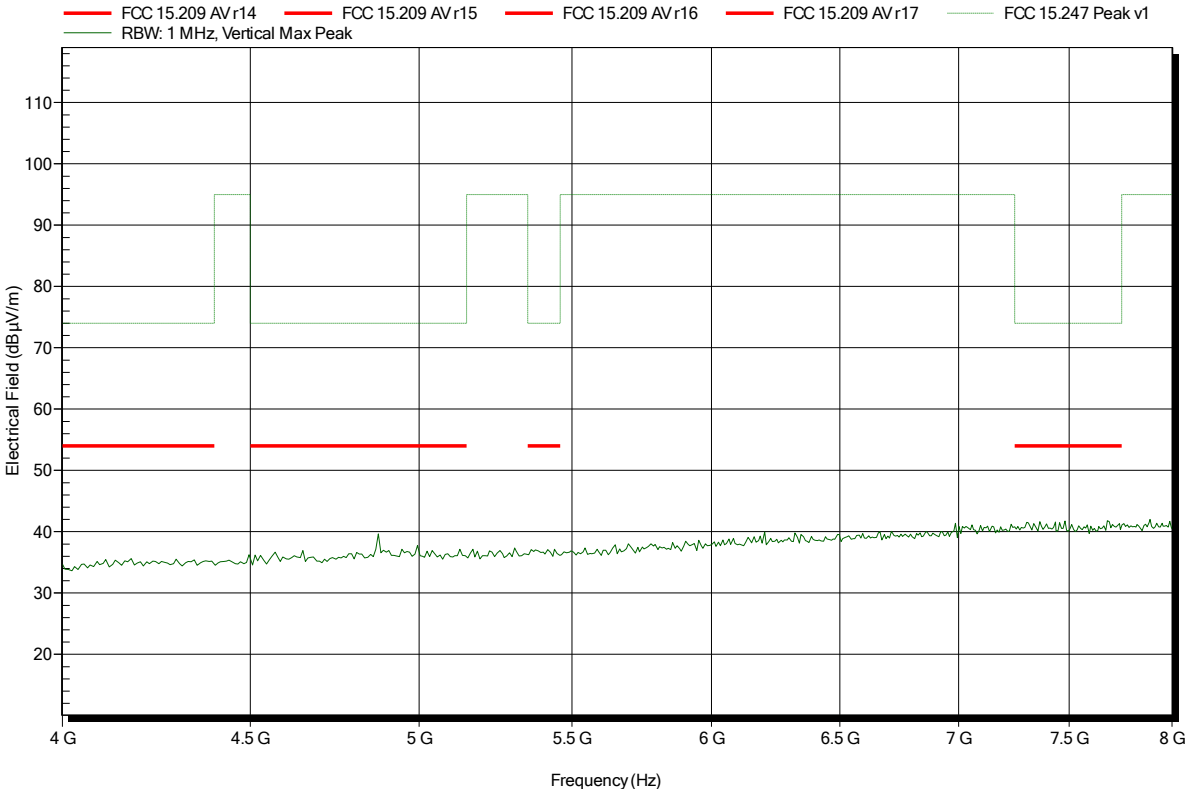

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.6; 2432 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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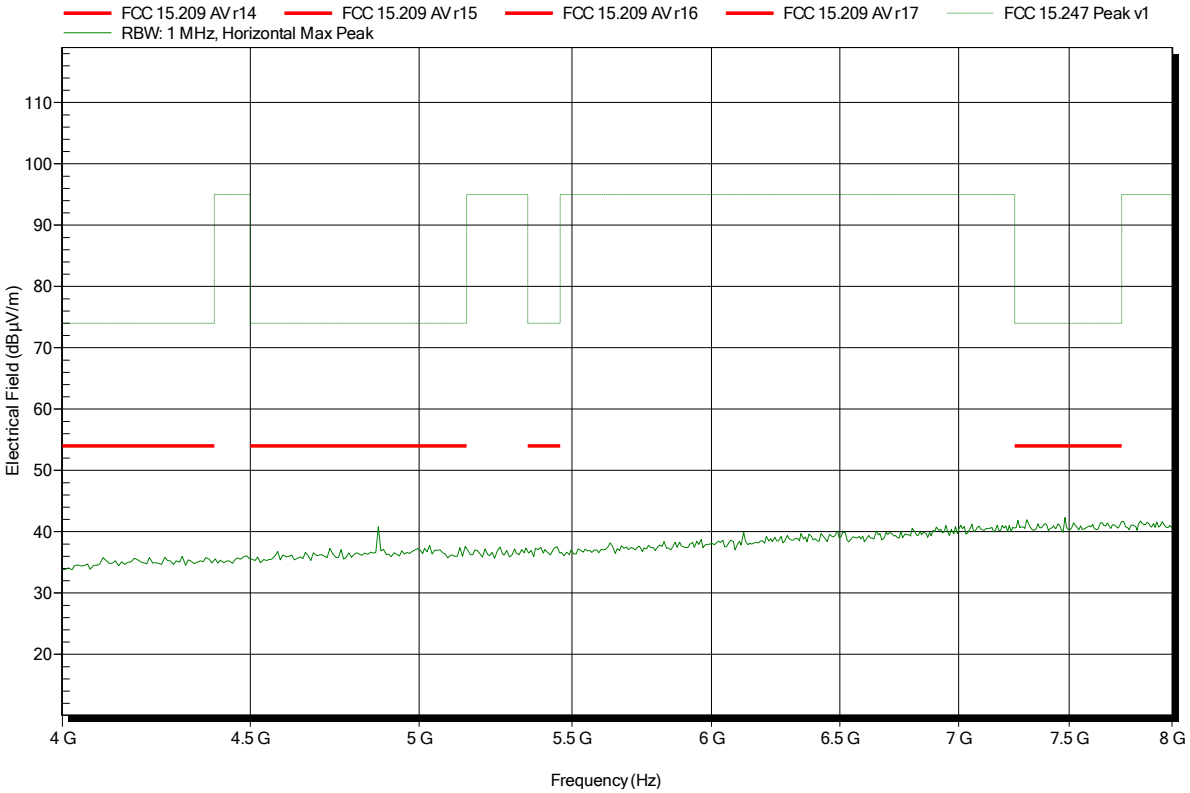

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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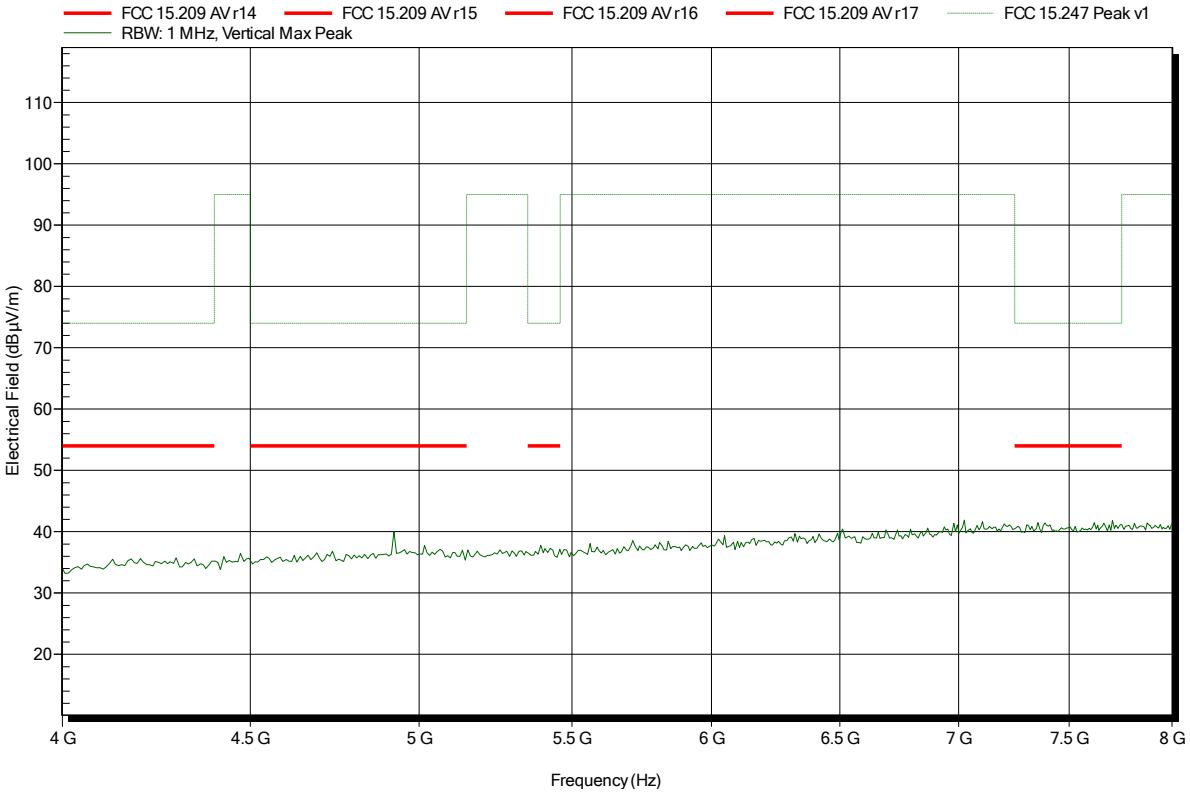

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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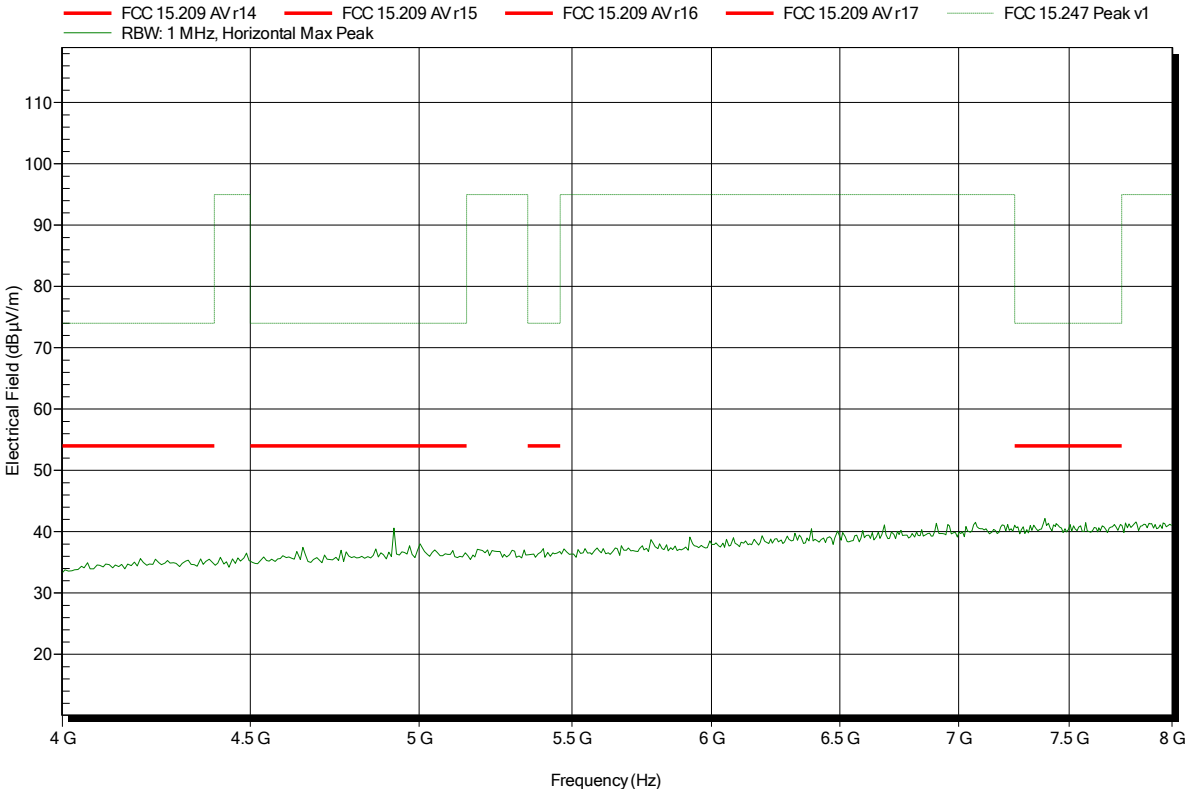

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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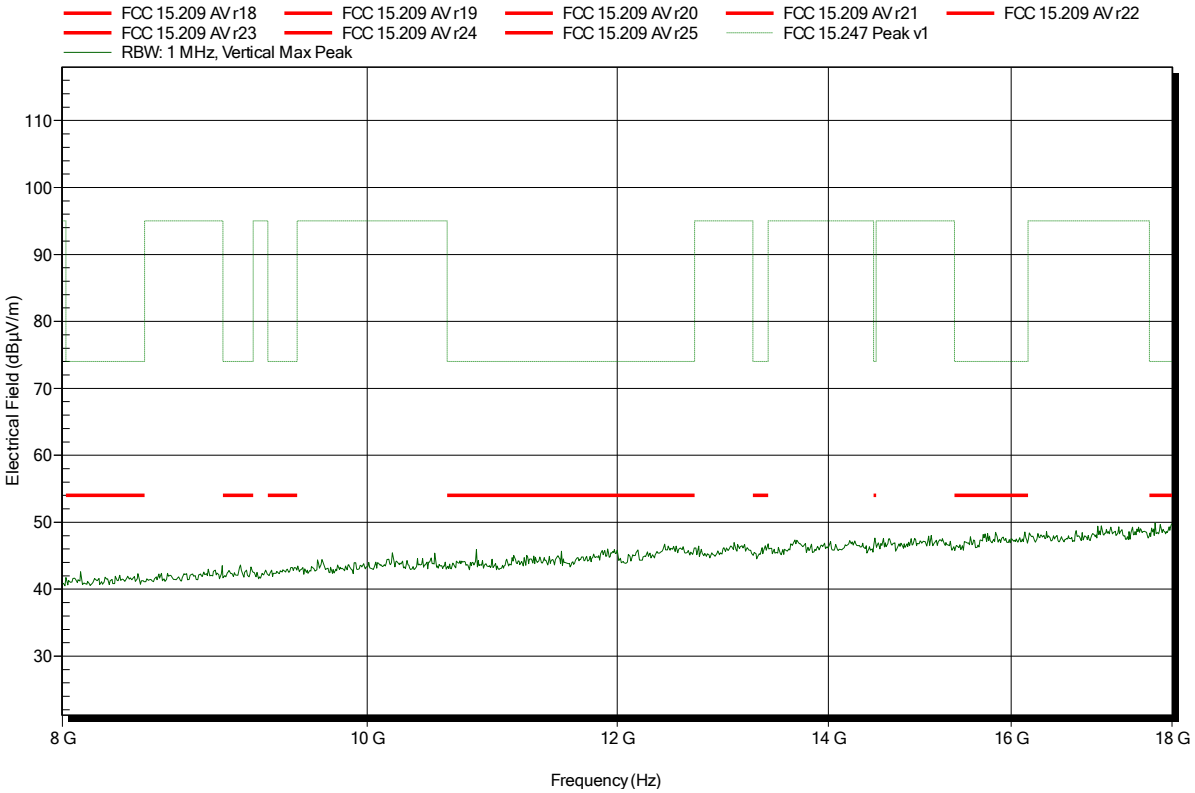

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

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EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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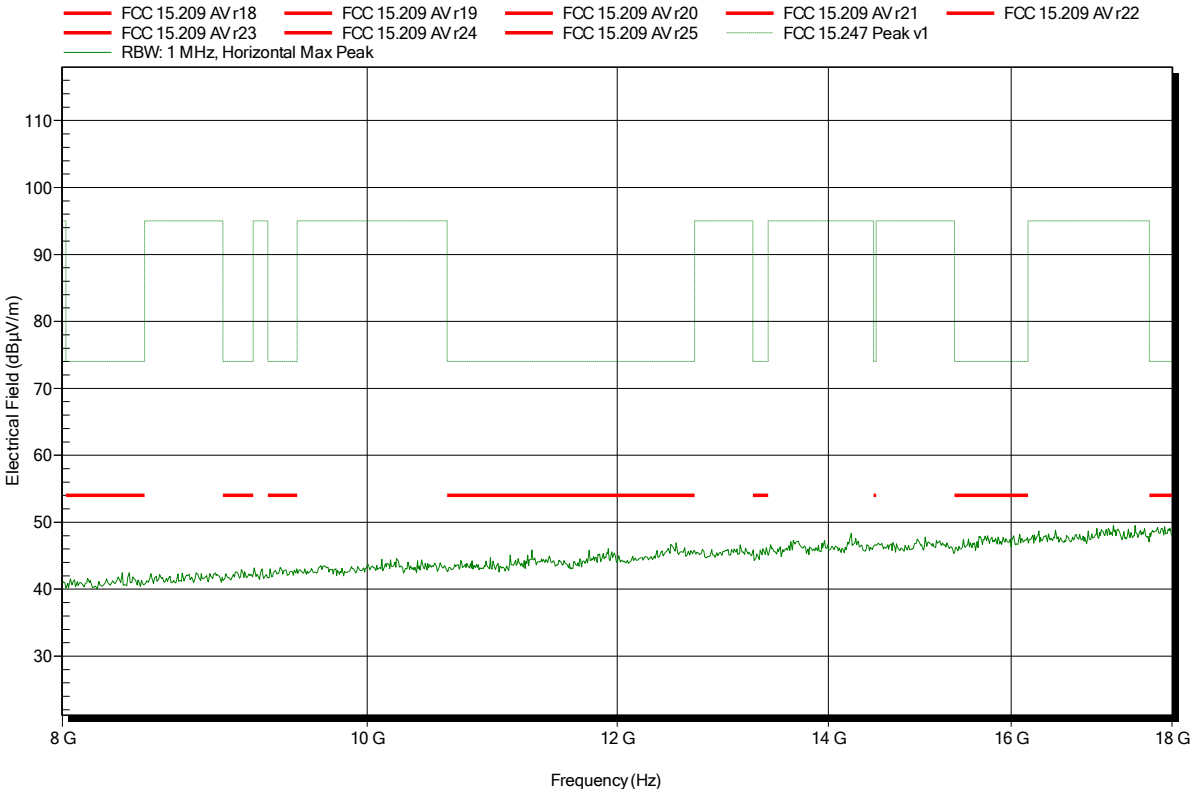

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.6; 2432 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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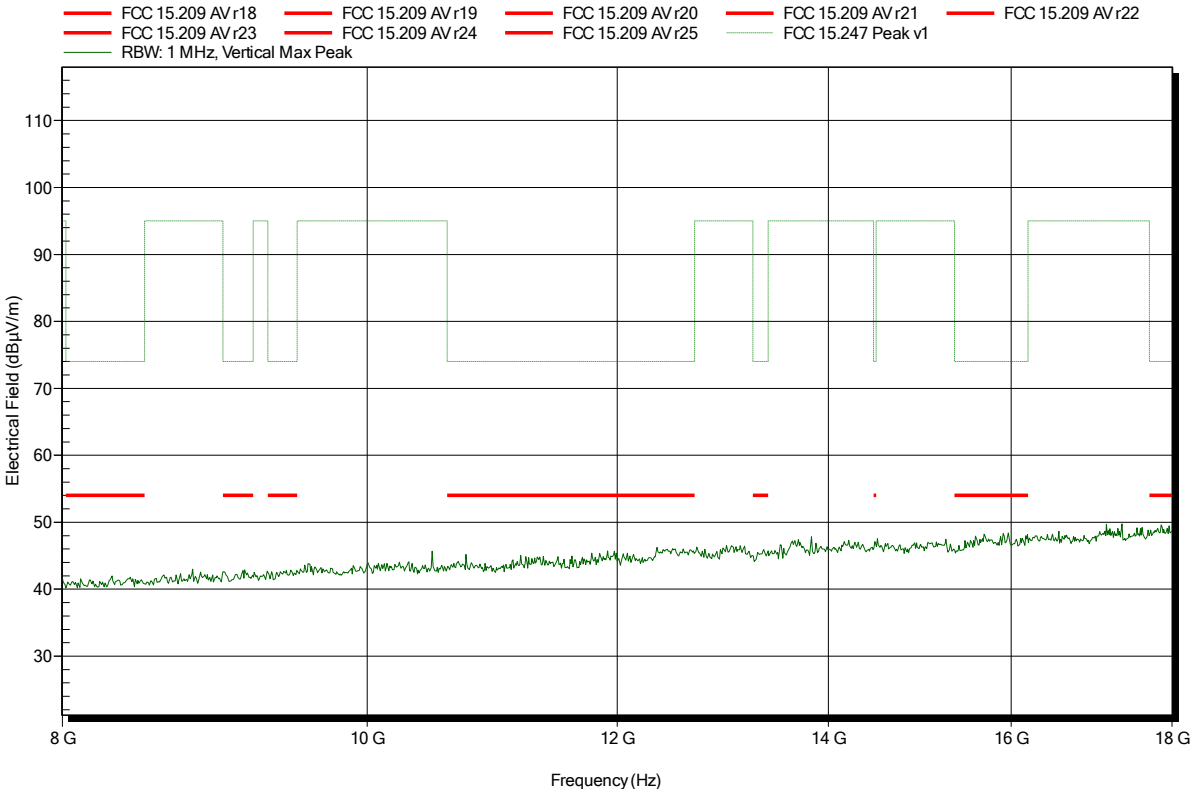

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.6; 2432 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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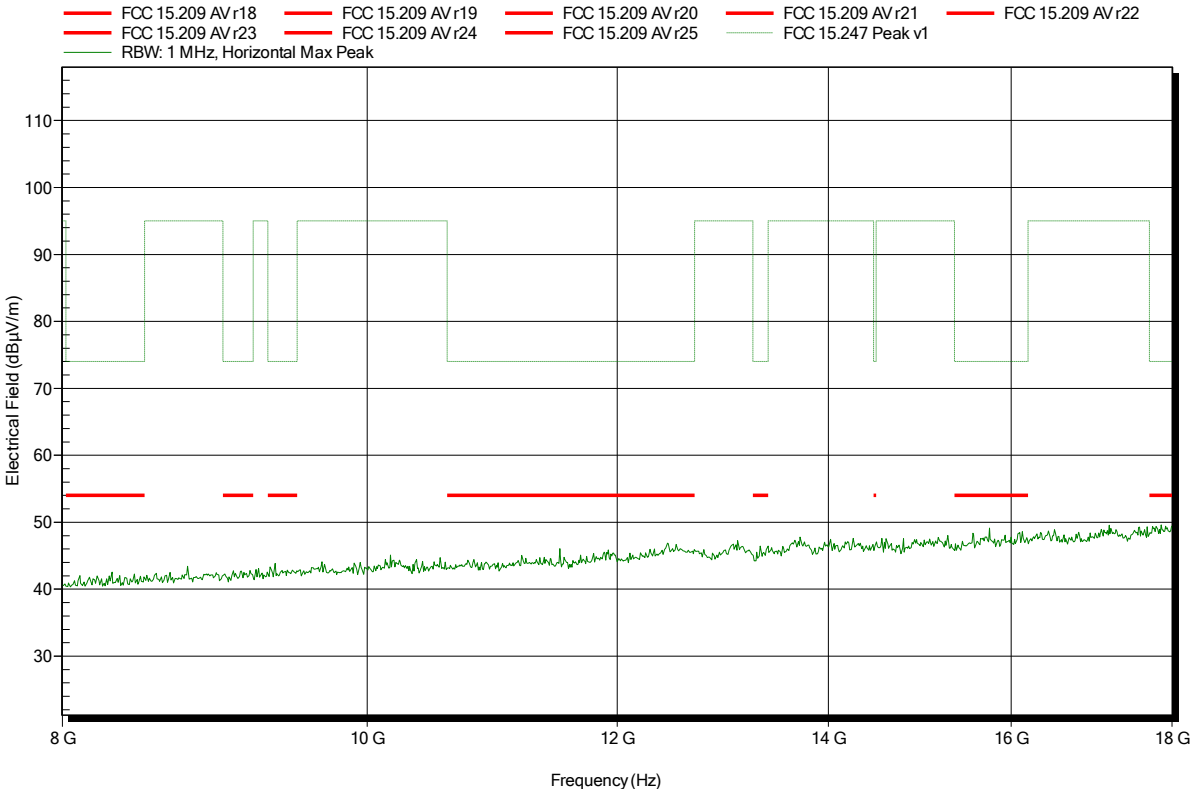

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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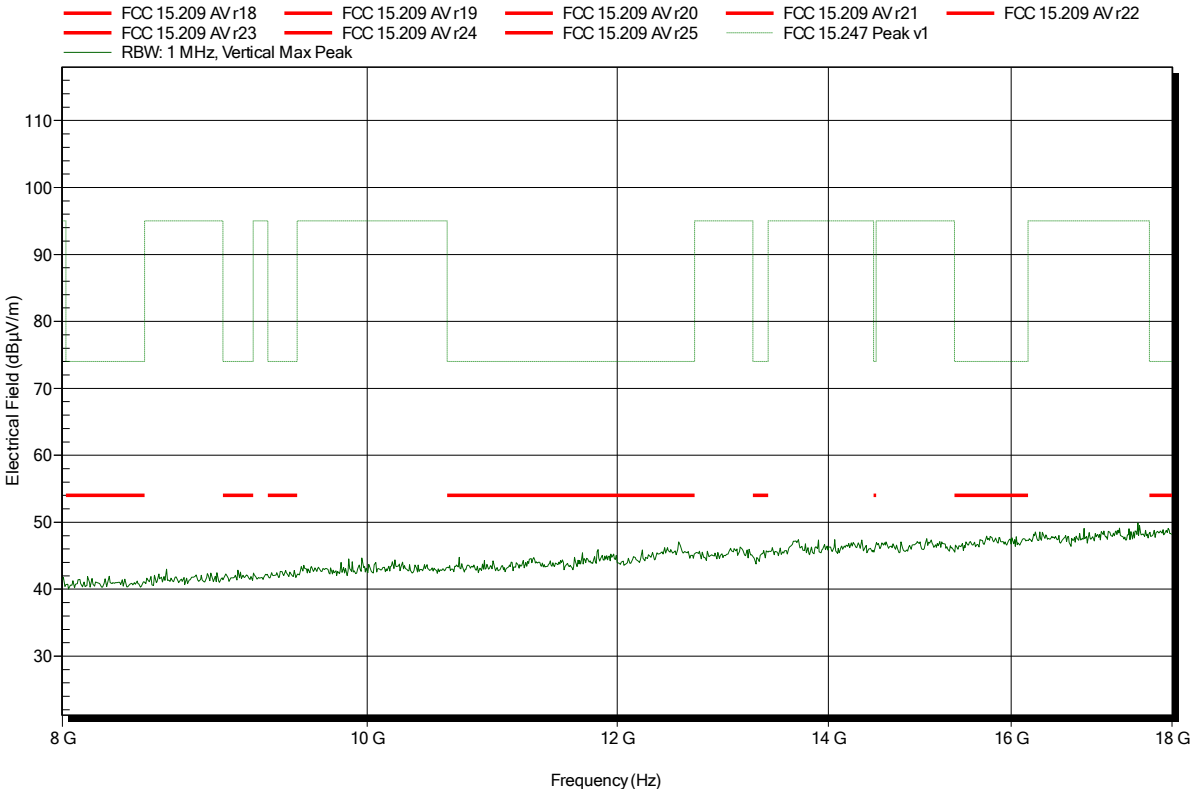

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Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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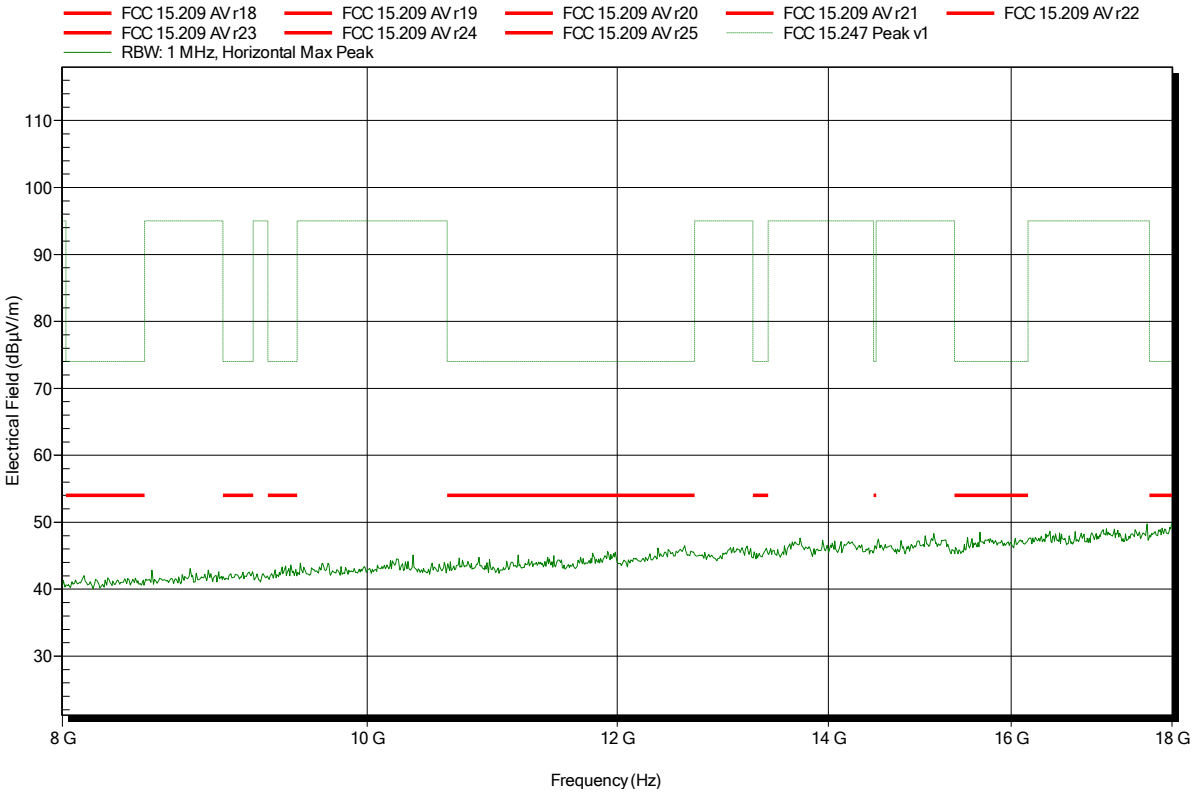

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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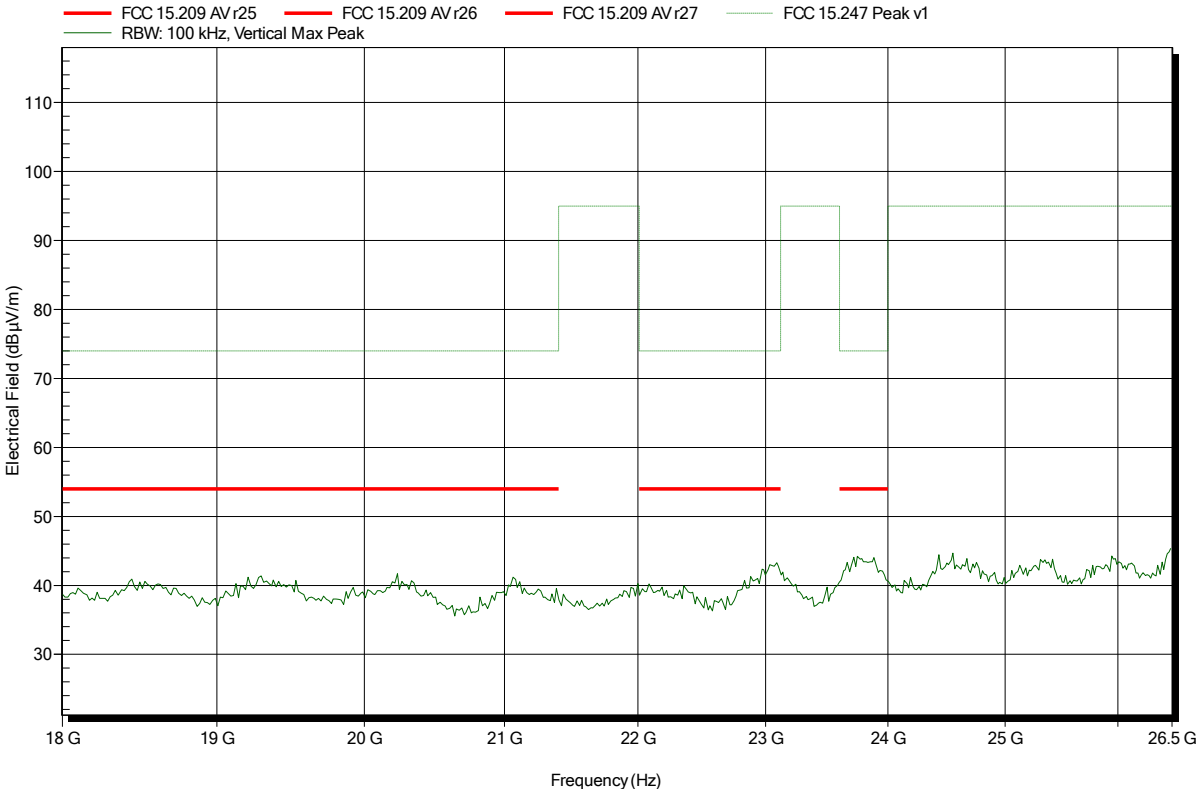

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Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.1; 2412 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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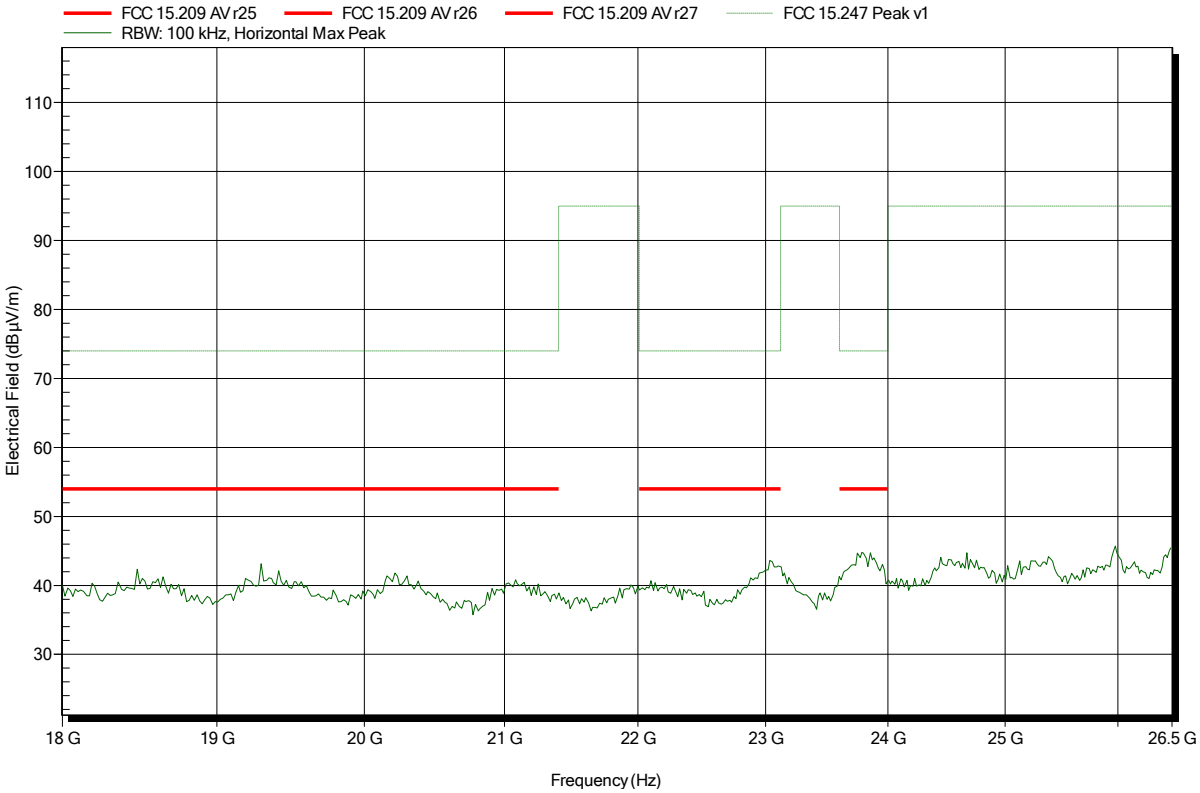

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.6; 2432 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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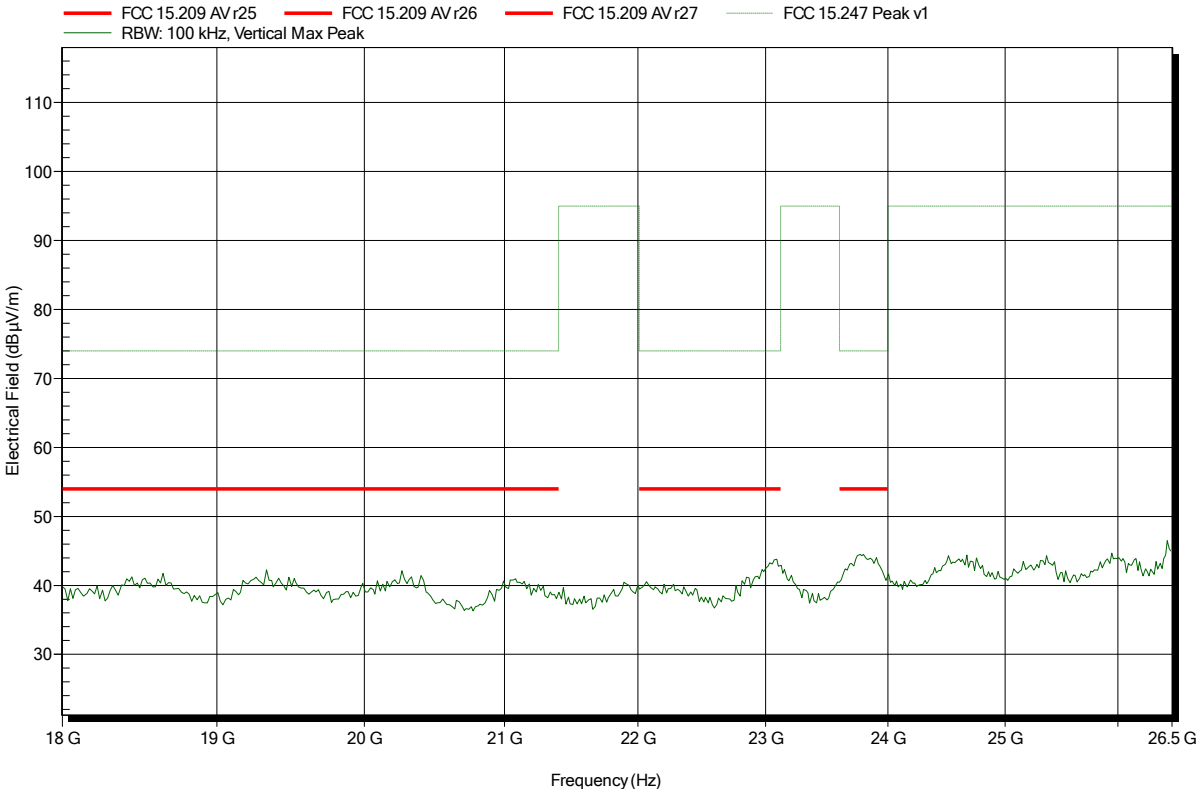

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.6; 2432 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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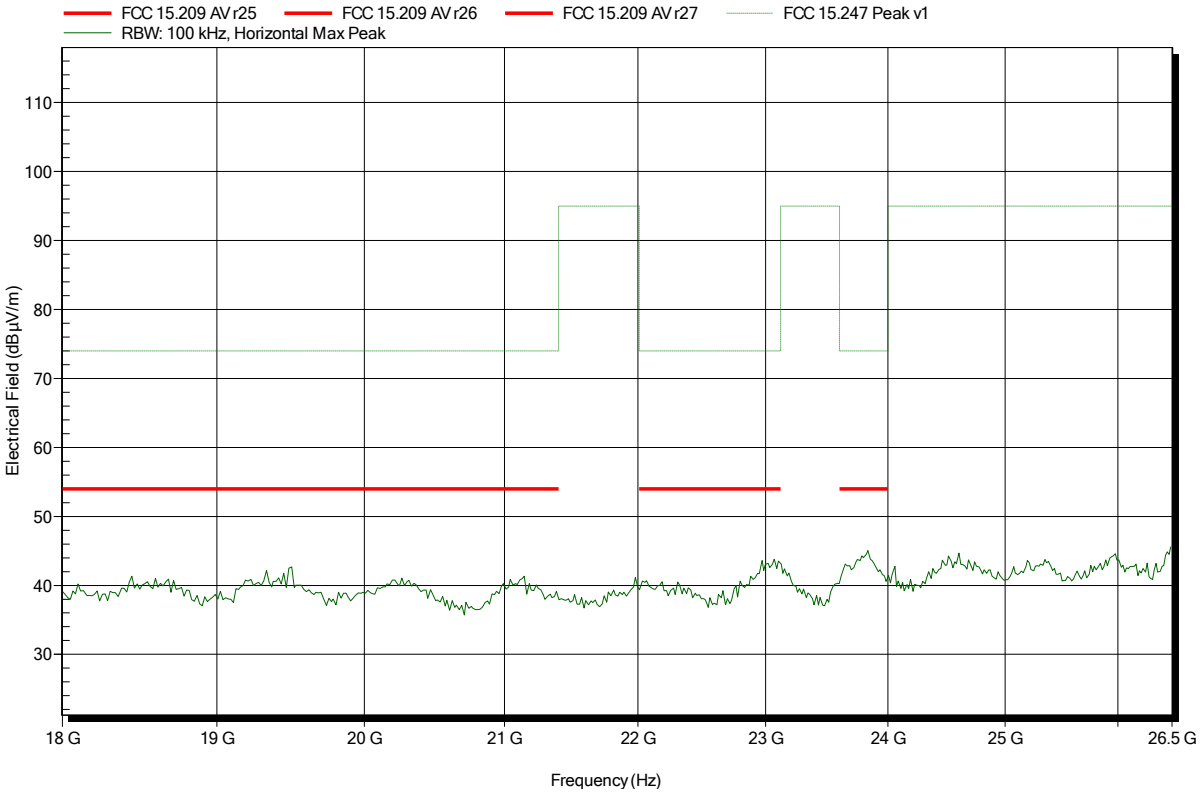

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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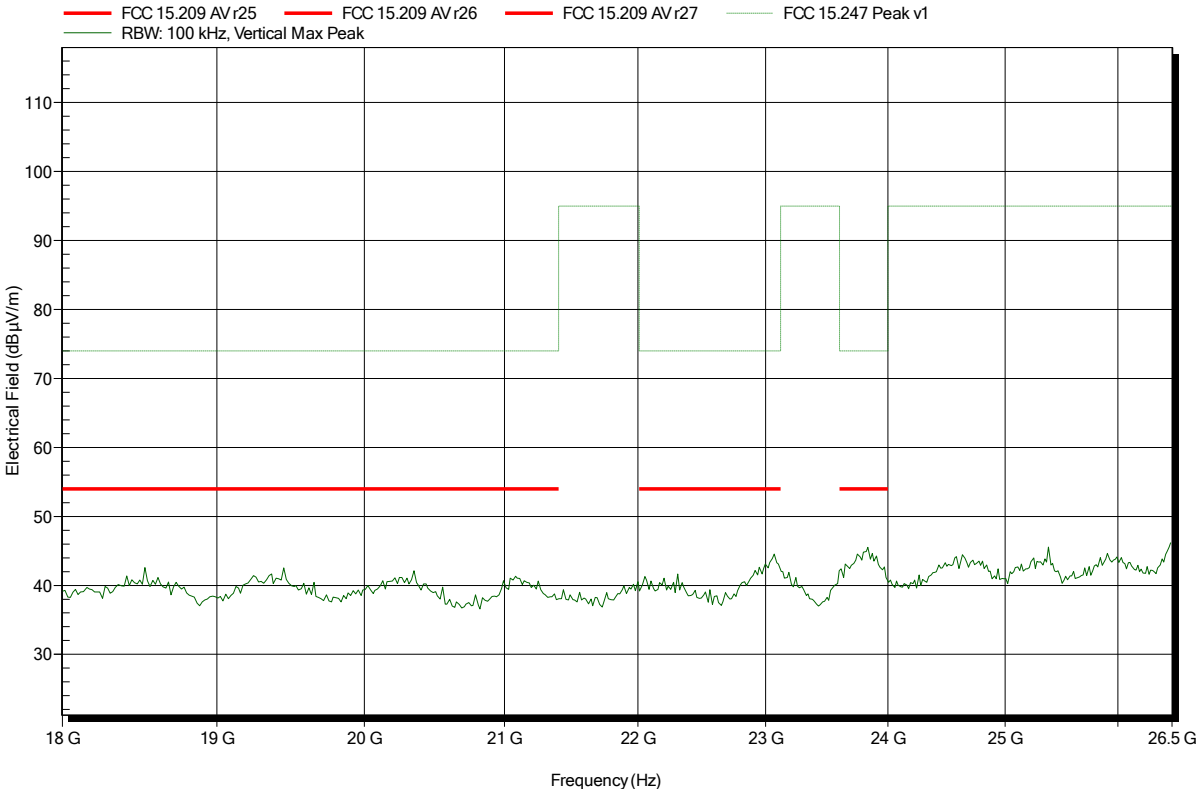

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11b; Ch.11; 2462 MHz; 1 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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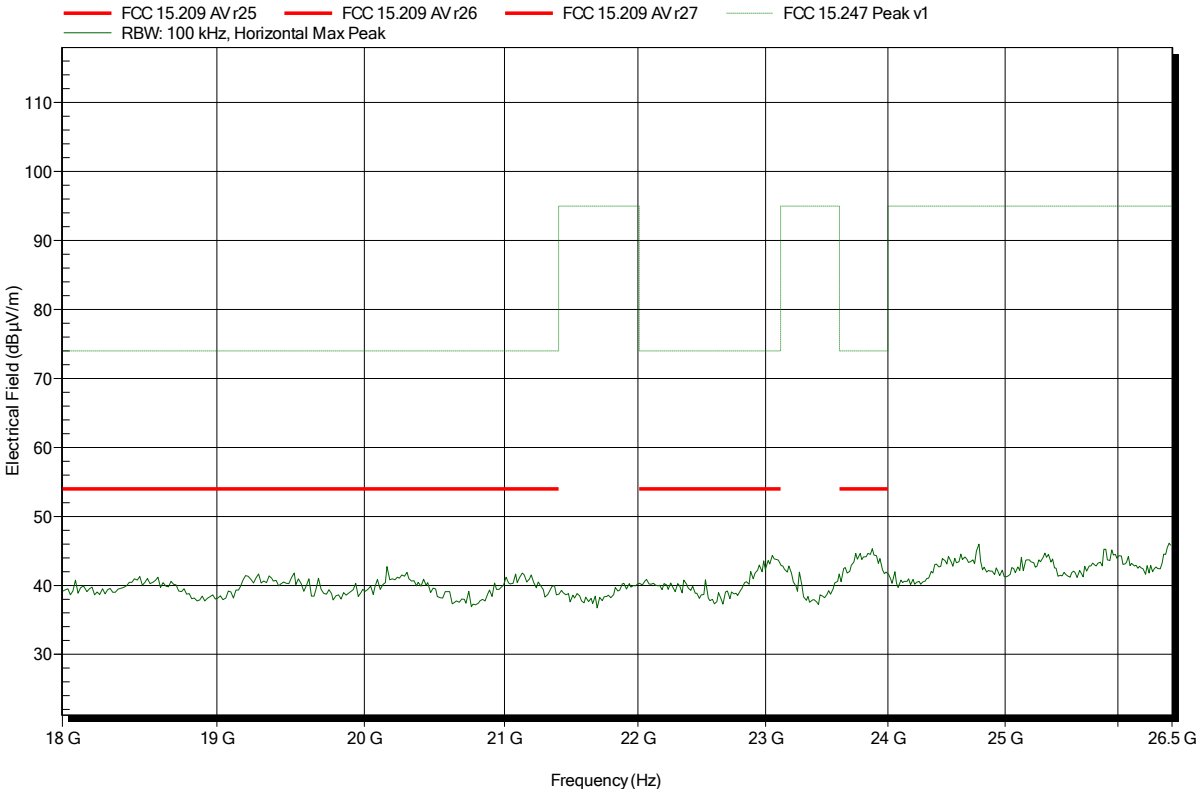

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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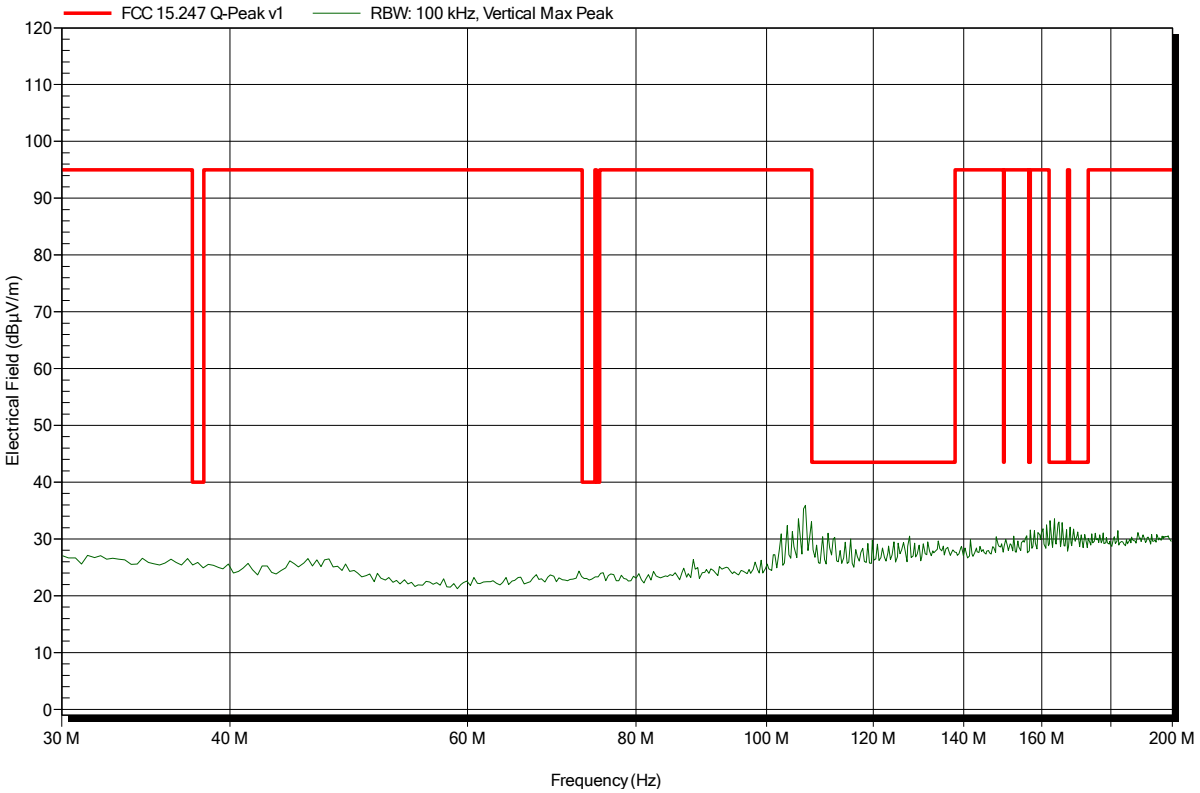

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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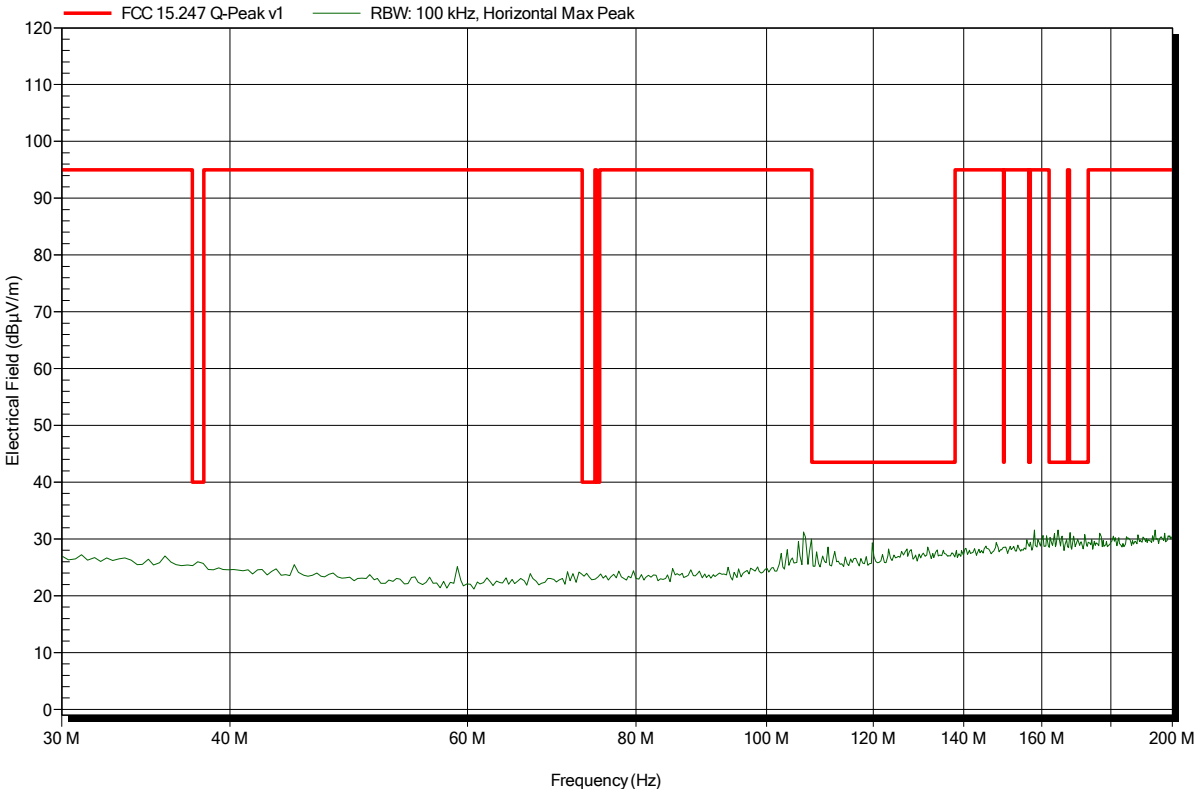

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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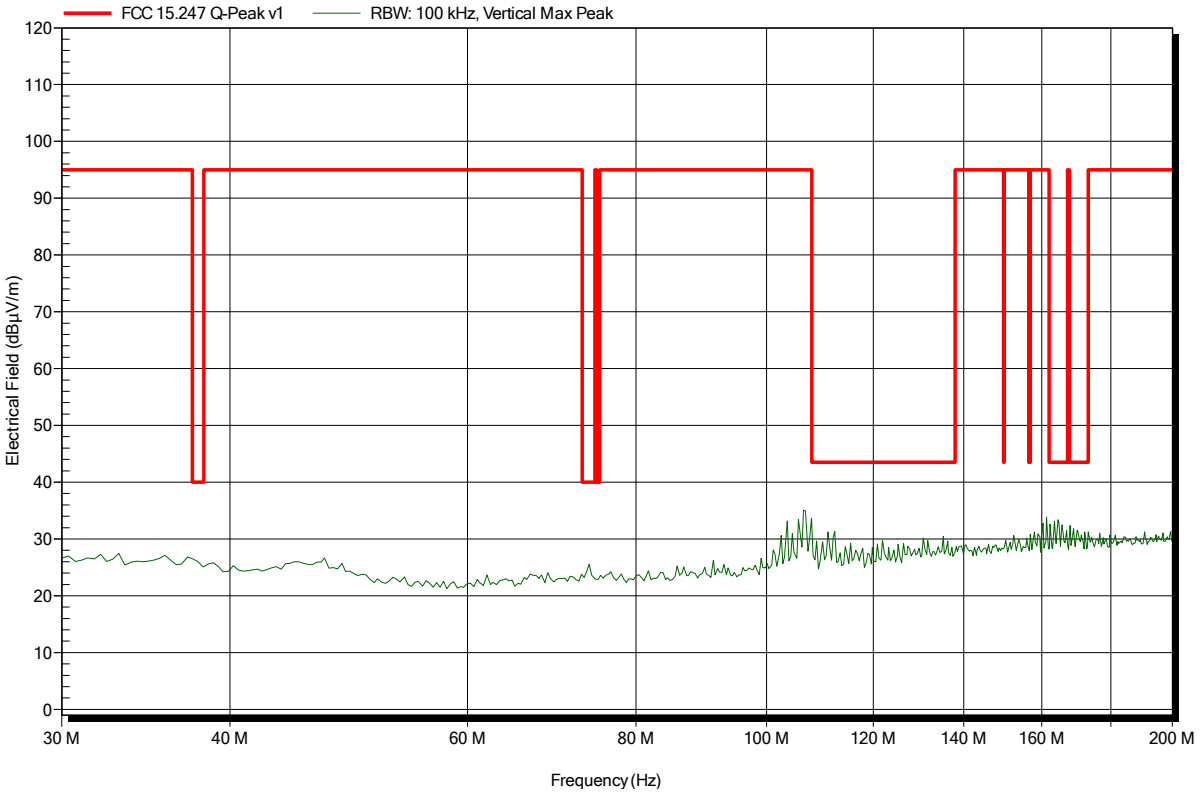

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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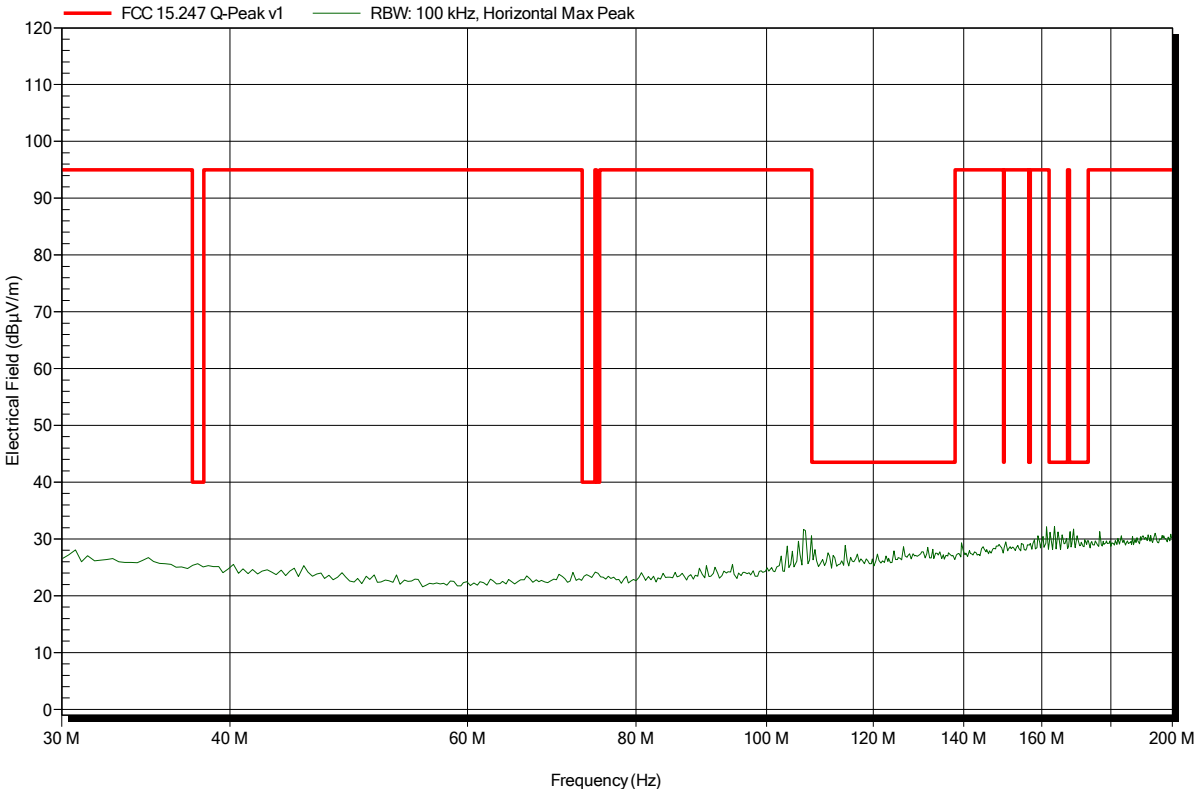

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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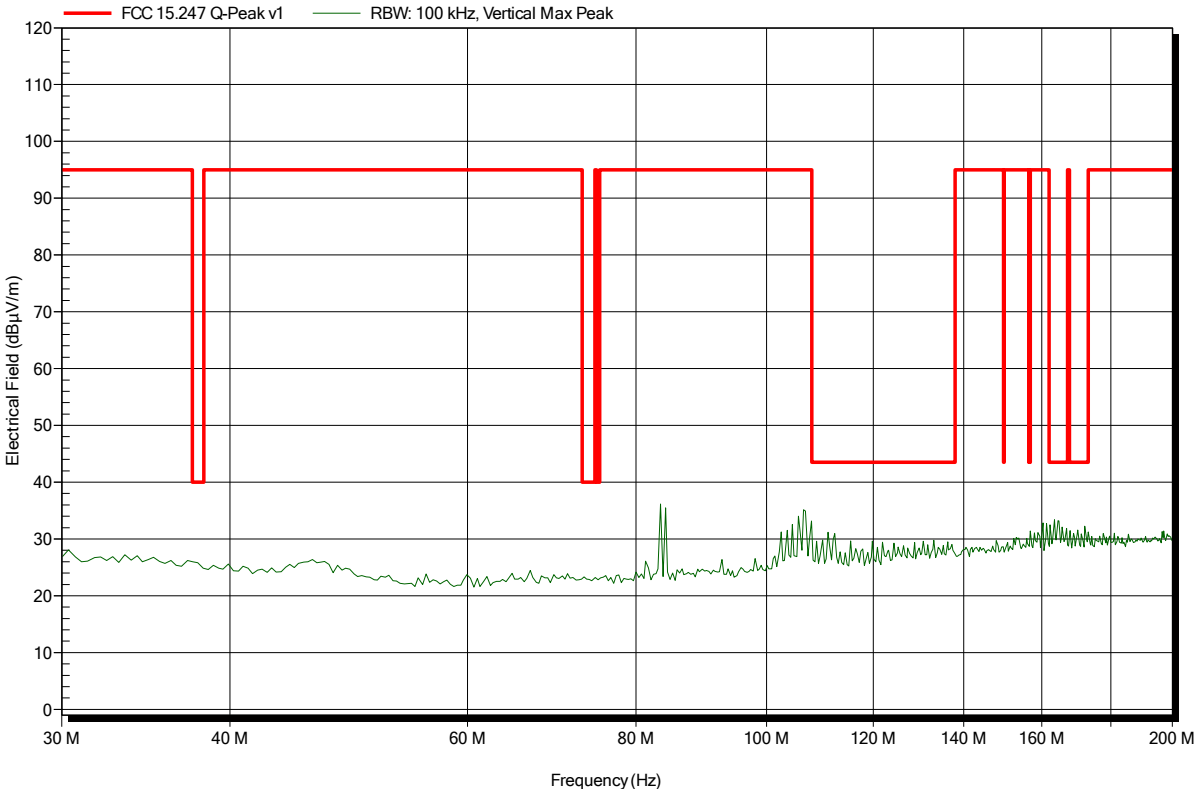

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch.11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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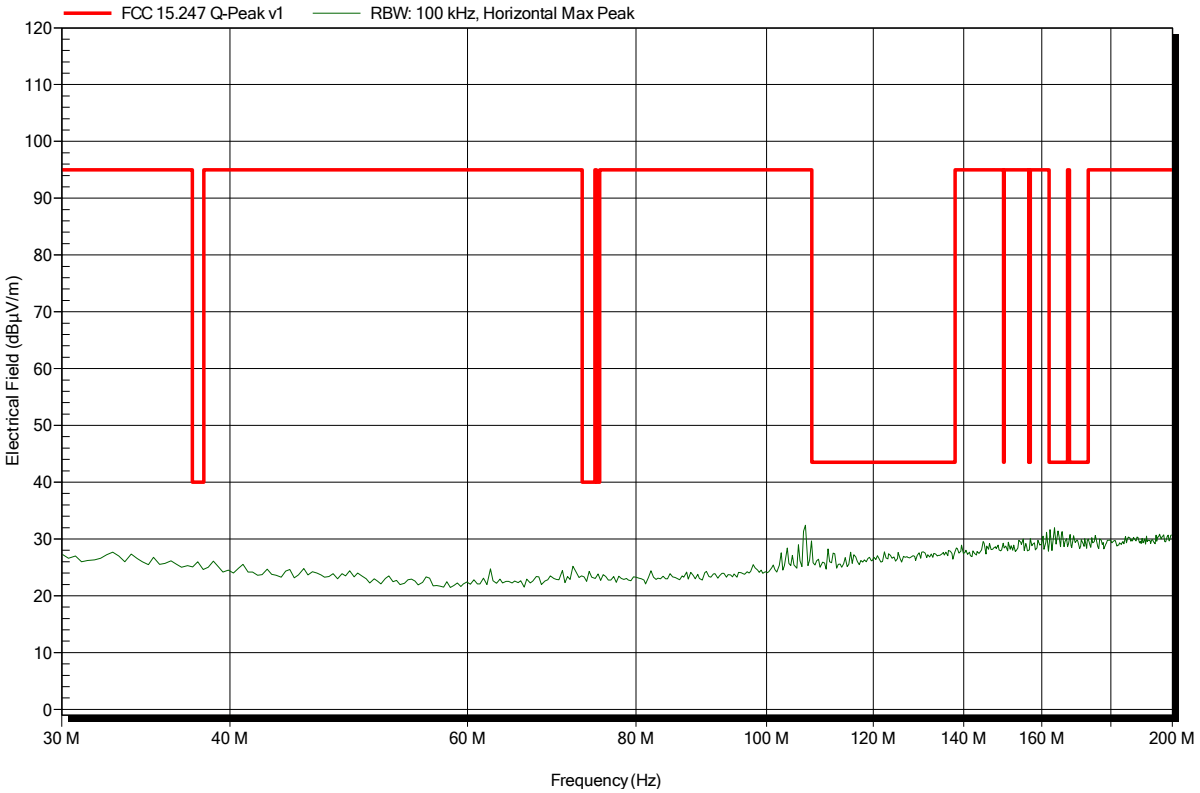

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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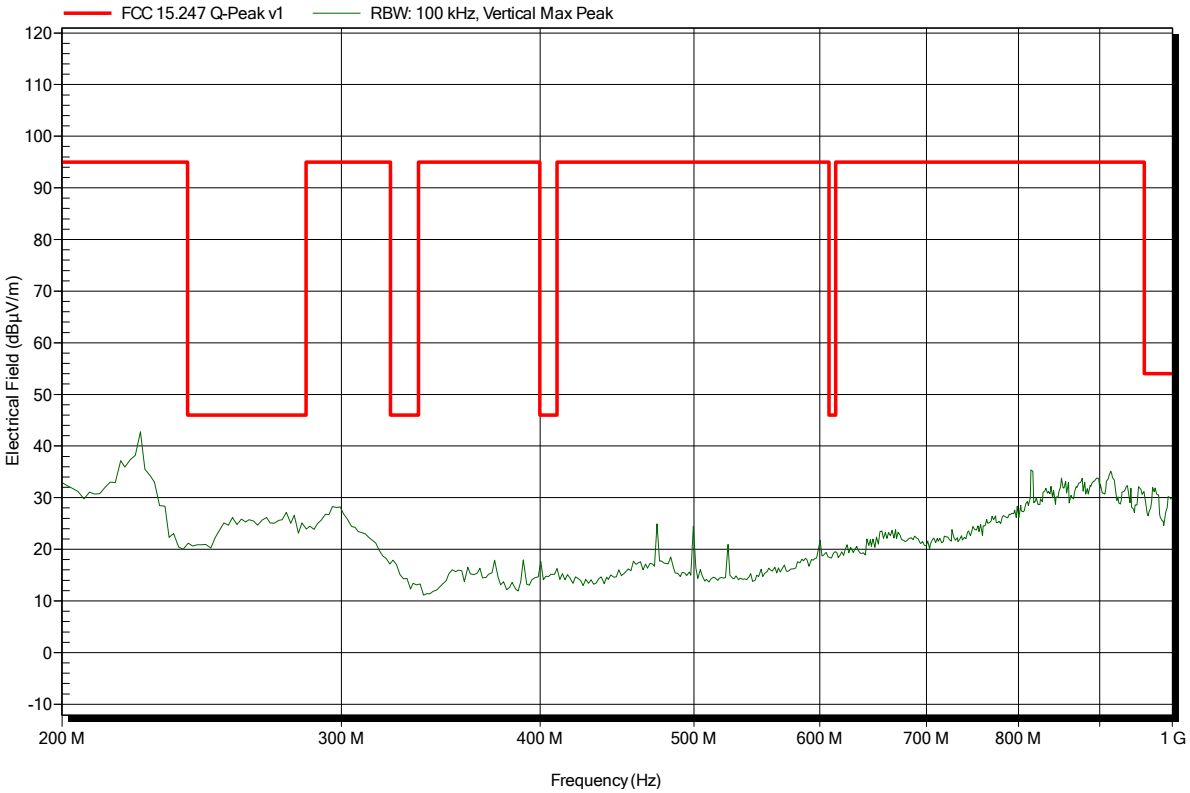

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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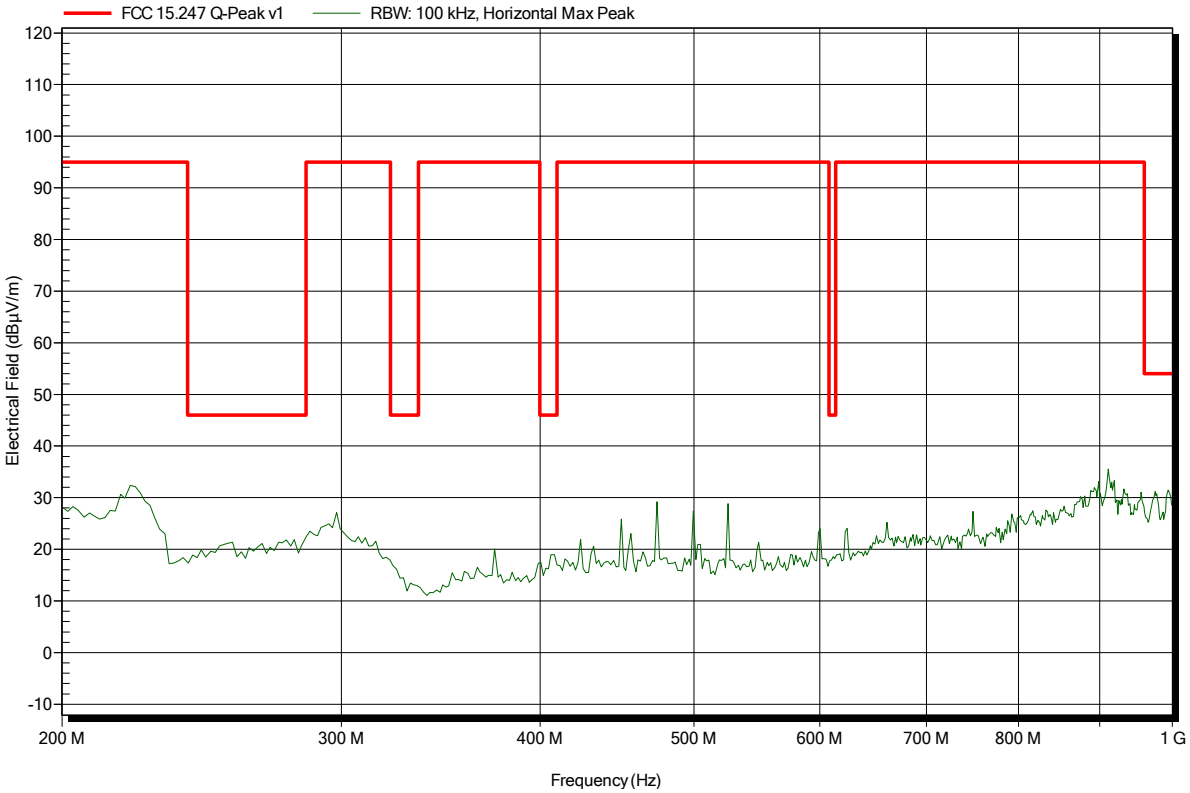

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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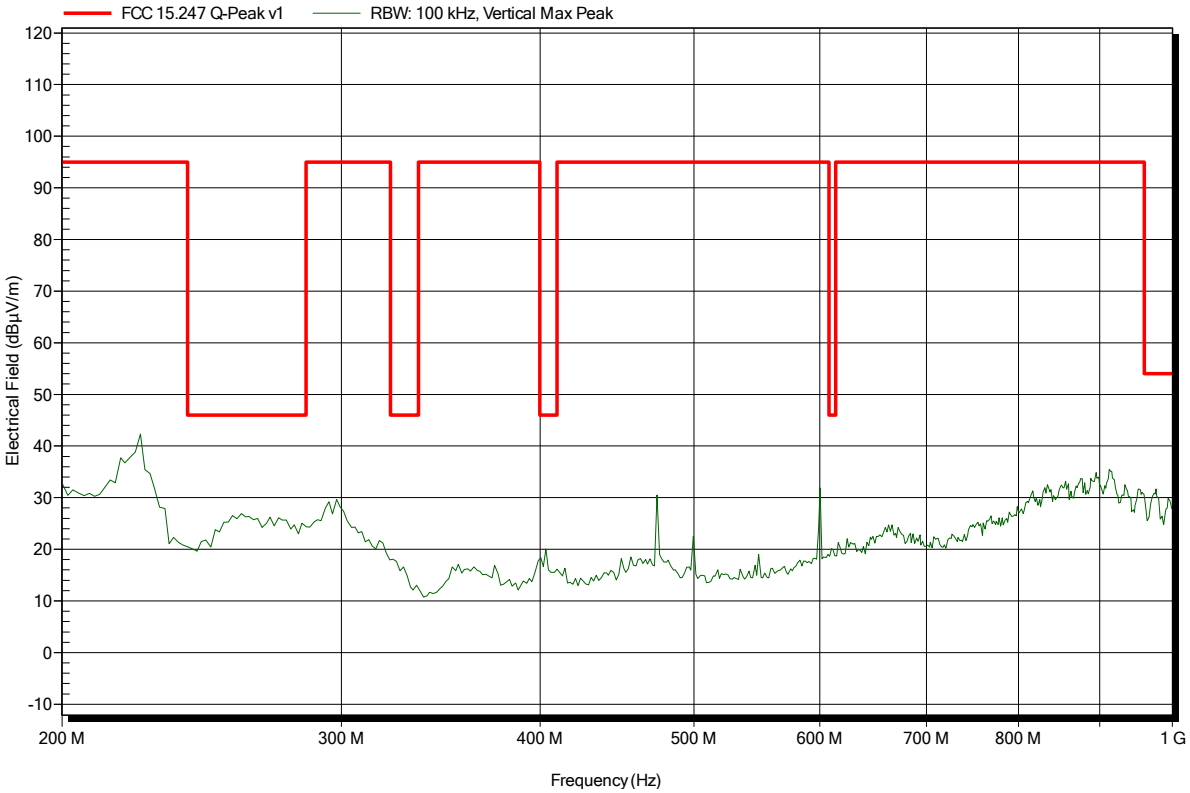

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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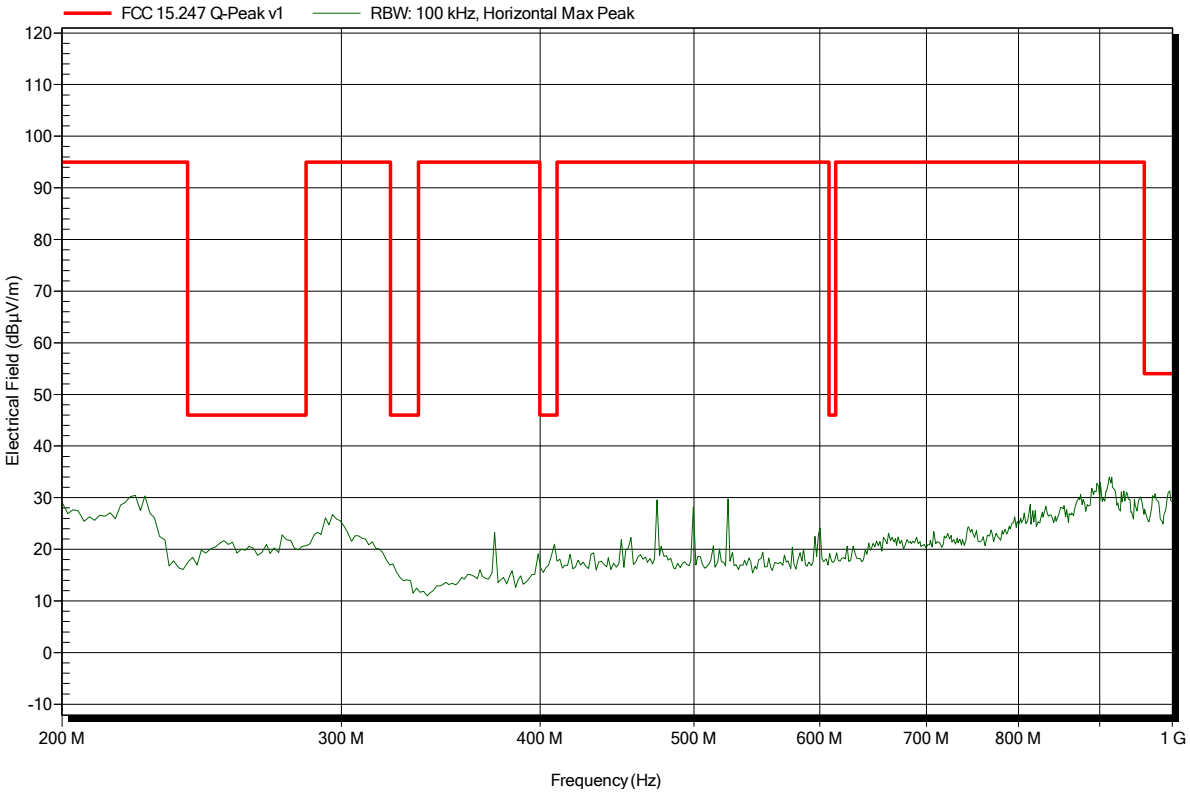

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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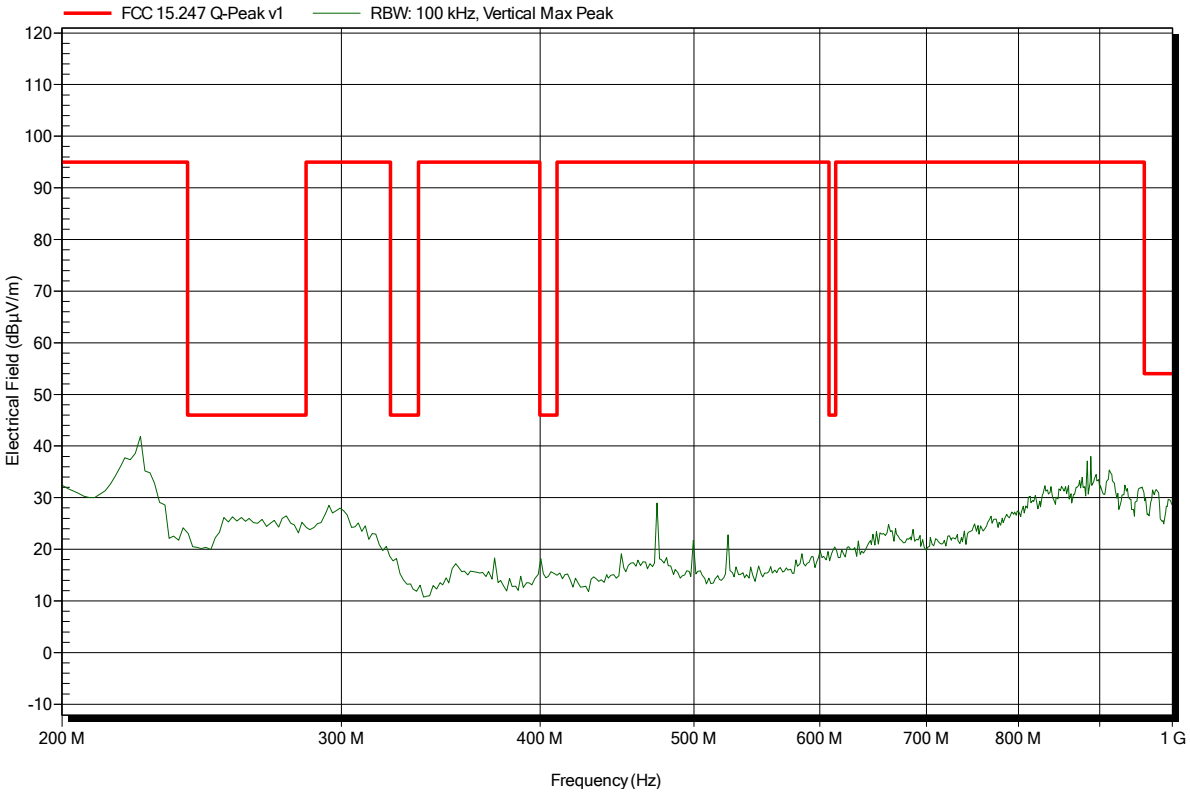

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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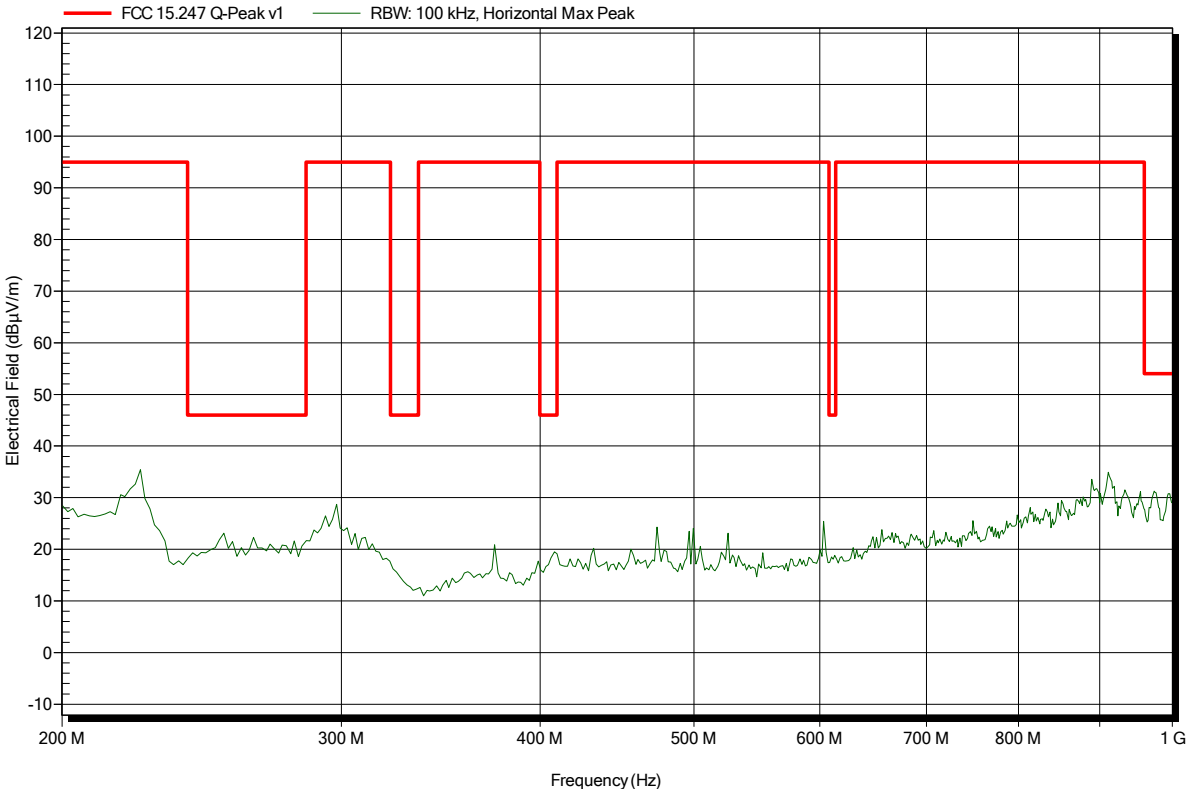

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch.1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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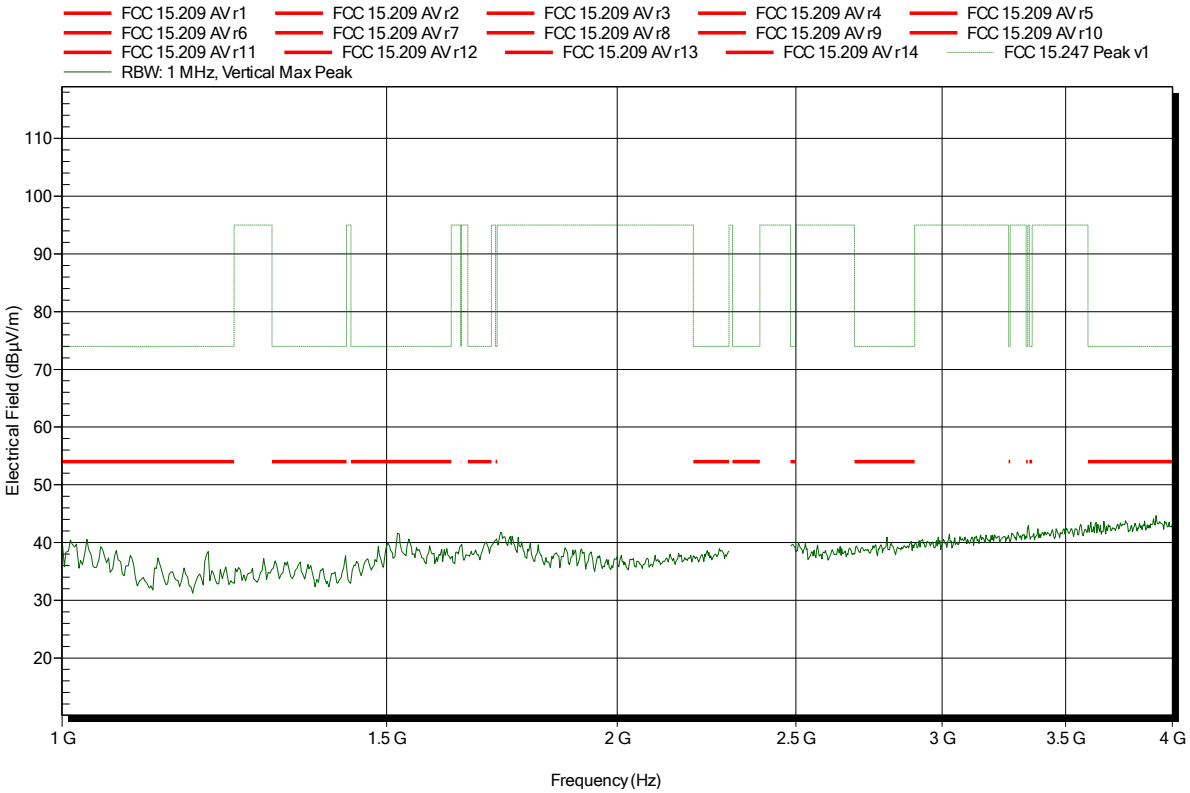

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch.1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower bandedge

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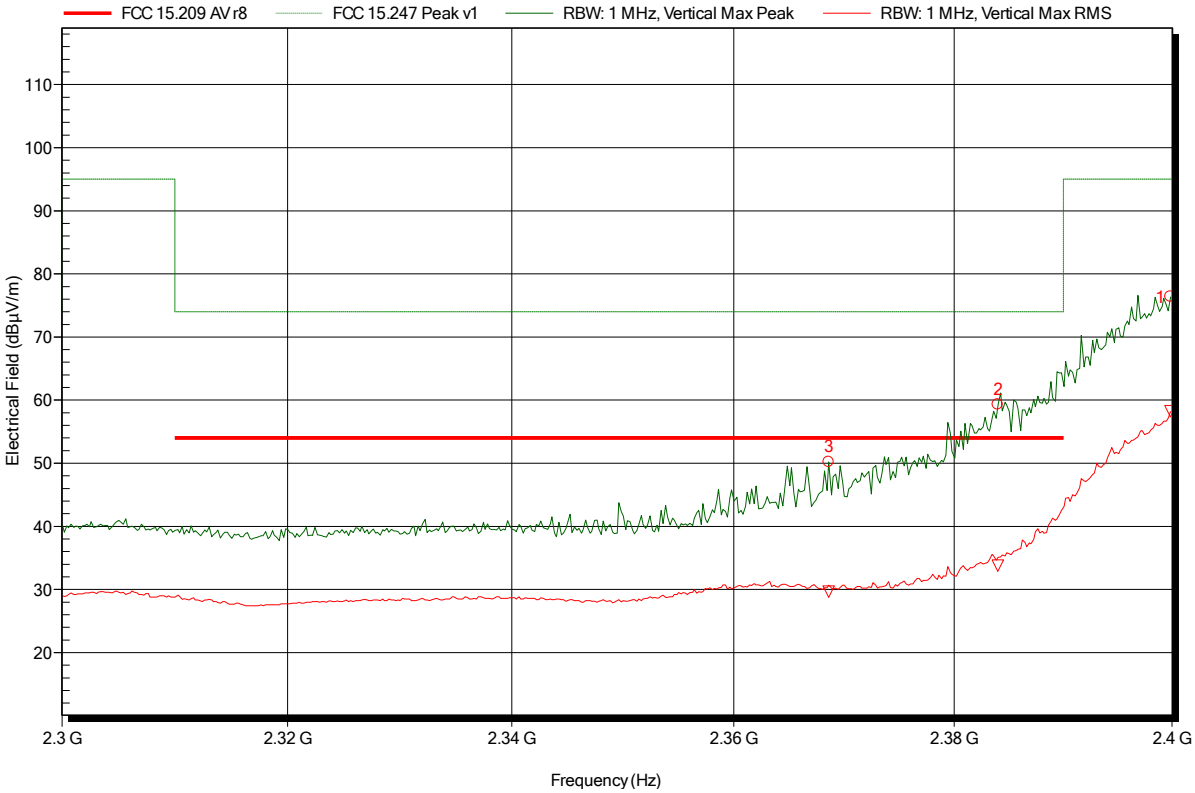

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.369 GHz	50.23 dBµV/m	74 dBµV/m	-23.77 dB	Pass
2.384 GHz	59.3 dBµV/m	74 dBµV/m	-14.7 dB	Pass
2.4 GHz	76.38 dBµV/m	95 dBµV/m	-18.62 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.369 GHz	29.68 dBµV/m	54 dBµV/m	-24.32 dB	Pass
2.384 GHz	33.77 dBµV/m	54 dBµV/m	-20.23 dB	Pass
2.4 GHz	58.25 dBµV/m			

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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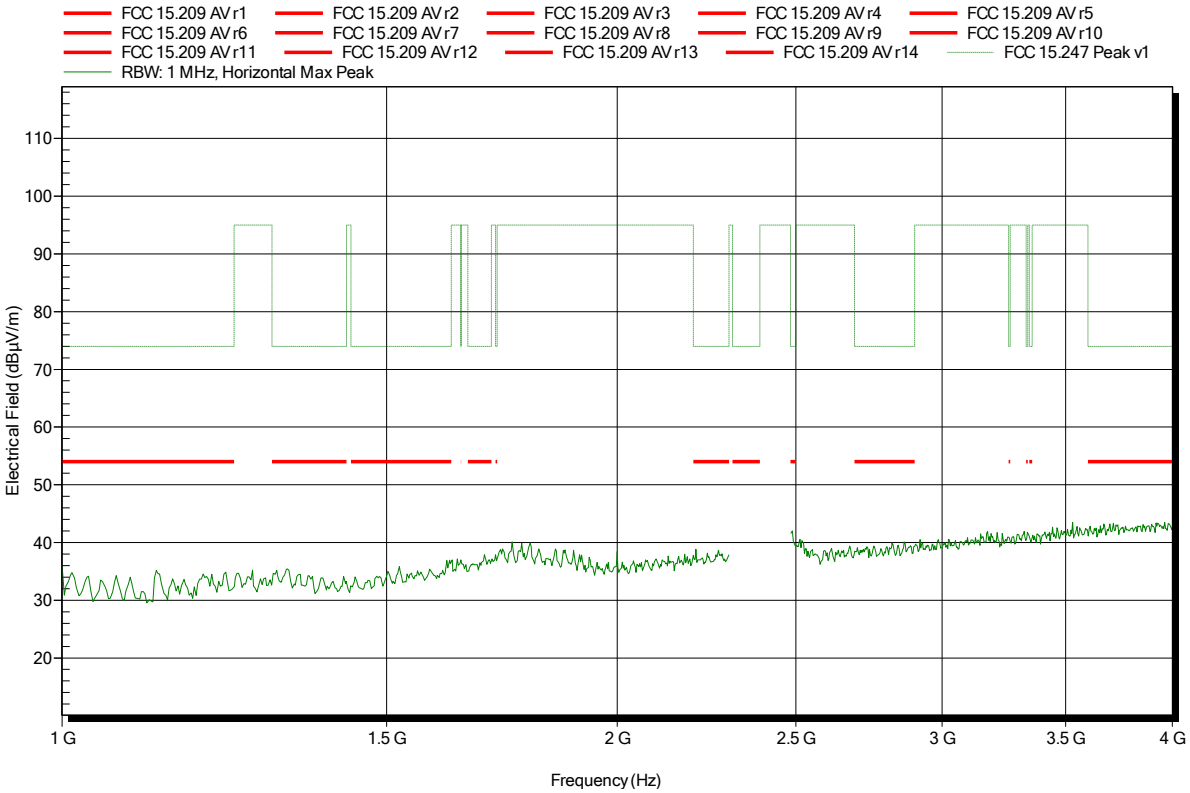

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower bandedge

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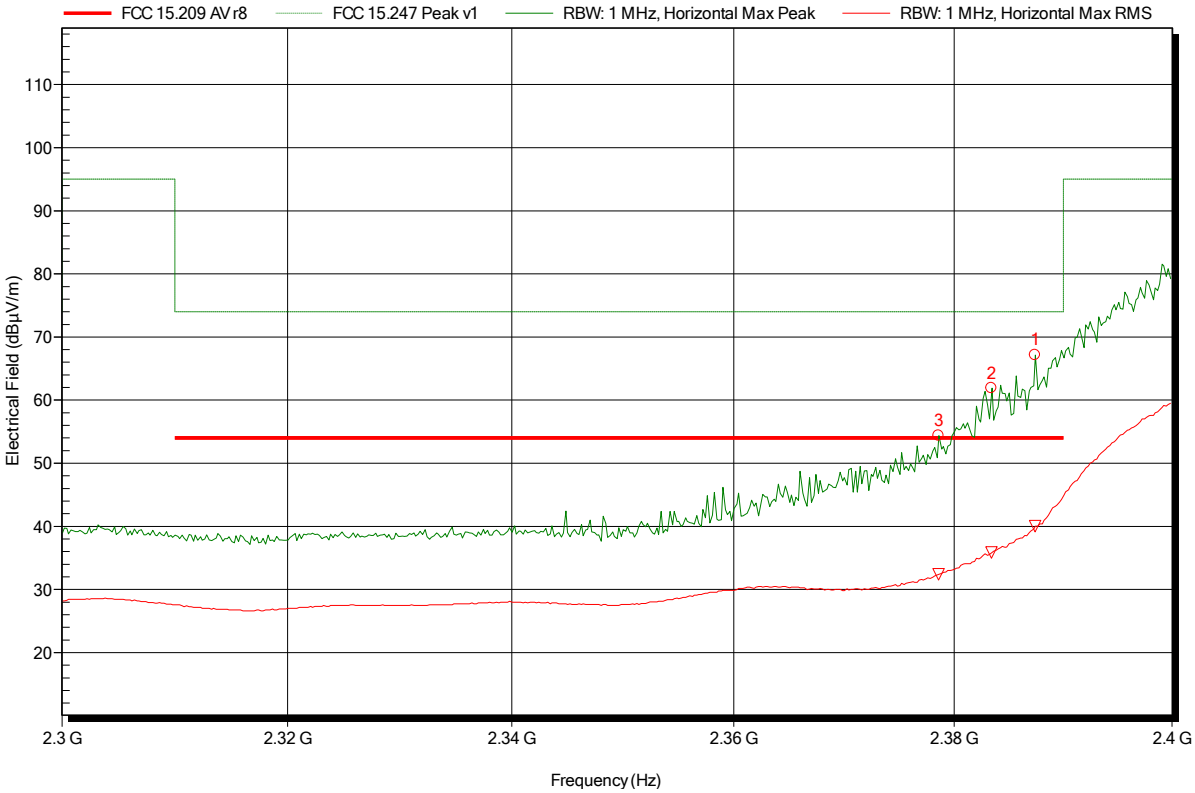

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.379 GHz	54.39 dBµV/m	74 dBµV/m	-19.61 dB	Pass
2.383 GHz	61.91 dBµV/m	74 dBµV/m	-12.09 dB	Pass
2.387 GHz	67.14 dBµV/m	74 dBµV/m	-6.86 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.379 GHz	32.4 dBµV/m	54 dBµV/m	-21.6 dB	Pass
2.383 GHz	35.86 dBµV/m	54 dBµV/m	-18.14 dB	Pass
2.387 GHz	40.06 dBµV/m	54 dBµV/m	-13.94 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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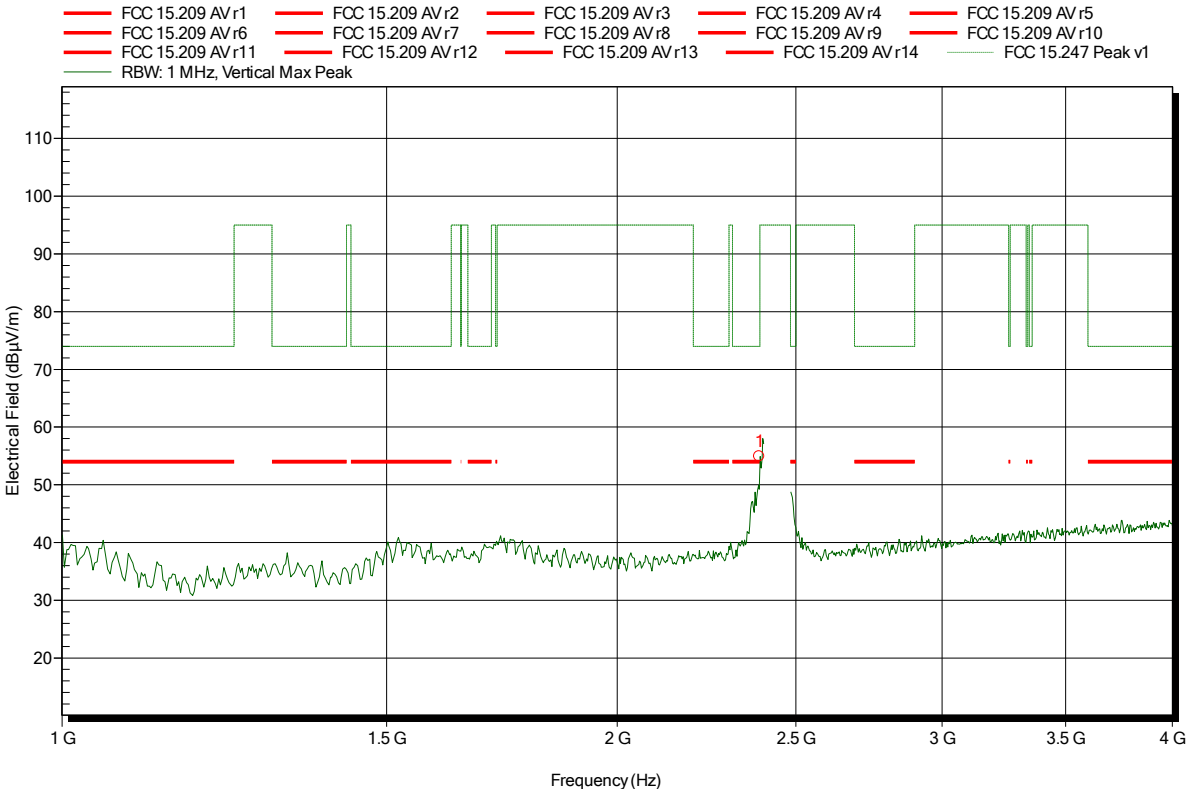

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.389 GHz	54.89 dBµV/m	74 dBµV/m	-19.11 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower band edge

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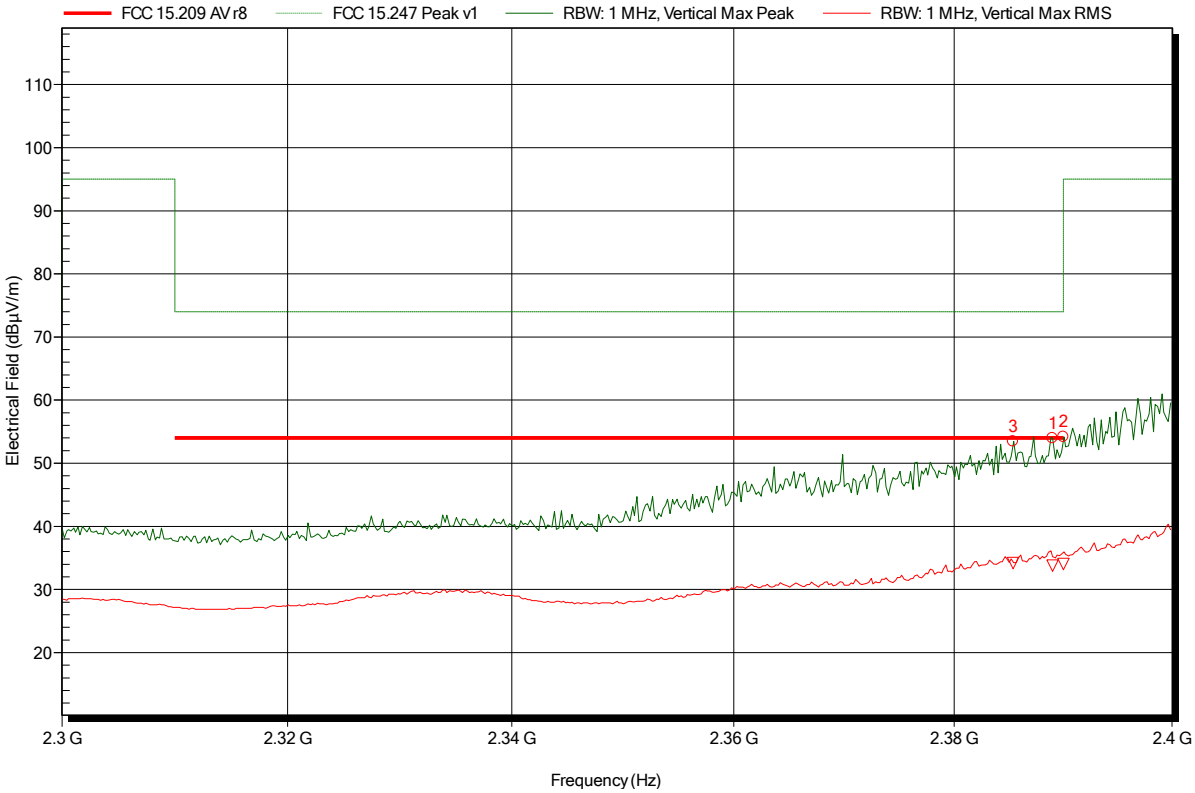

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.385 GHz	53.44 dBµV/m	74 dBµV/m	-20.56 dB	Pass
2.389 GHz	53.99 dBµV/m	74 dBµV/m	-20.01 dB	Pass
2.39 GHz	54.19 dBµV/m	74 dBµV/m	-19.81 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.385 GHz	34.16 dBµV/m	54 dBµV/m	-19.84 dB	Pass
2.389 GHz	33.78 dBµV/m	54 dBµV/m	-20.22 dB	Pass
2.39 GHz	34.05 dBµV/m	54 dBµV/m	-19.95 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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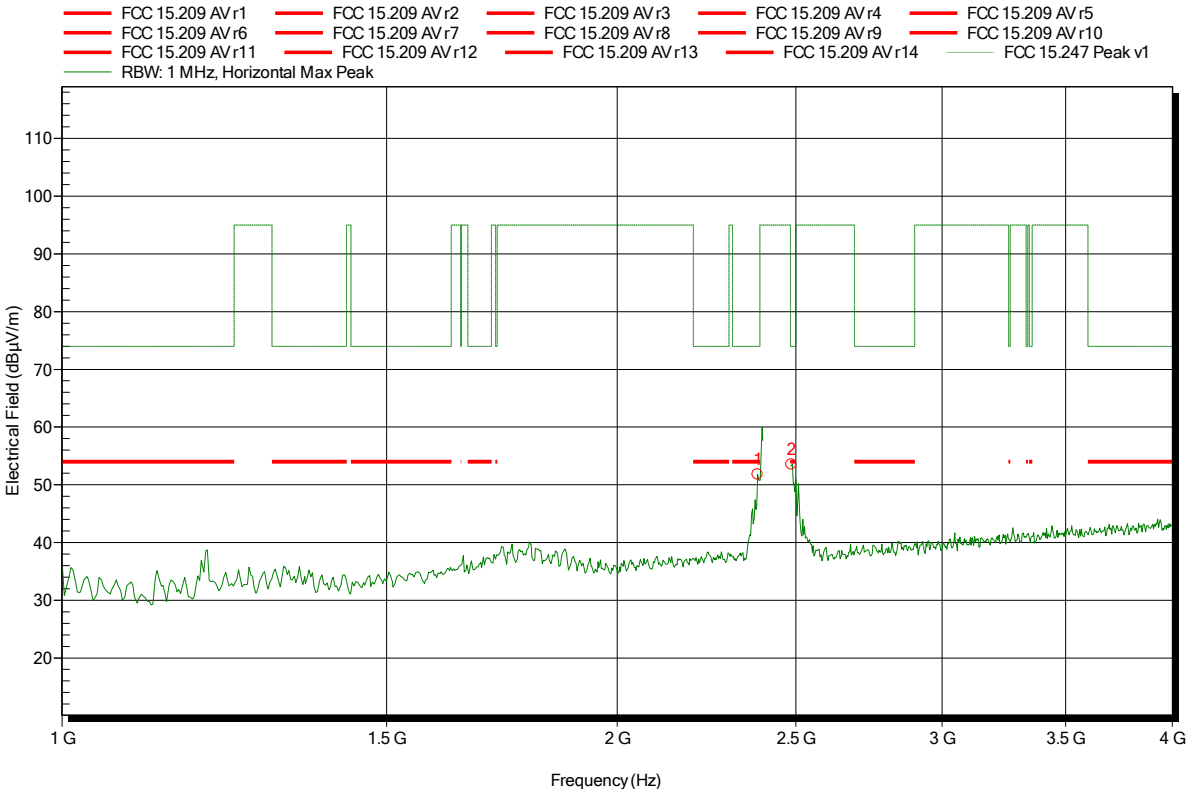

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.383 GHz	51.79 dBµV/m	74 dBµV/m	-22.21 dB	Pass
2.487 GHz	53.49 dBµV/m	74 dBµV/m	-20.51 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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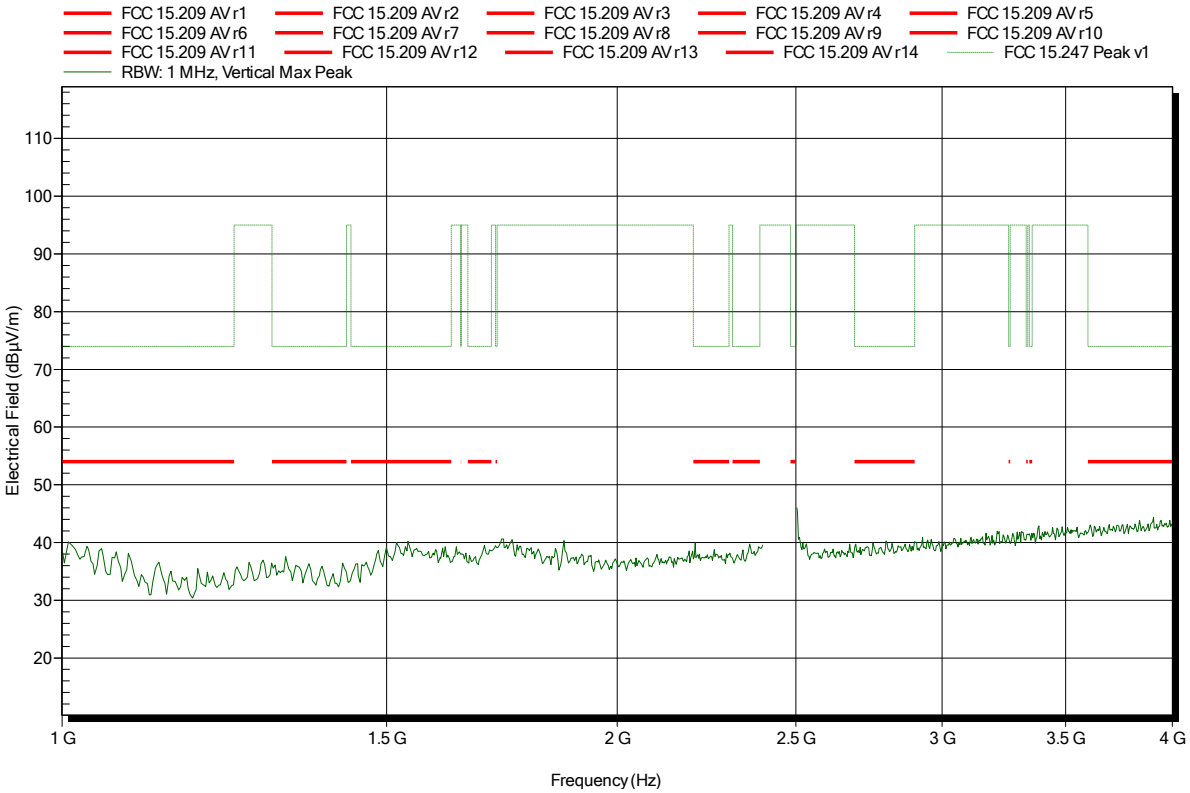

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; higher band edge

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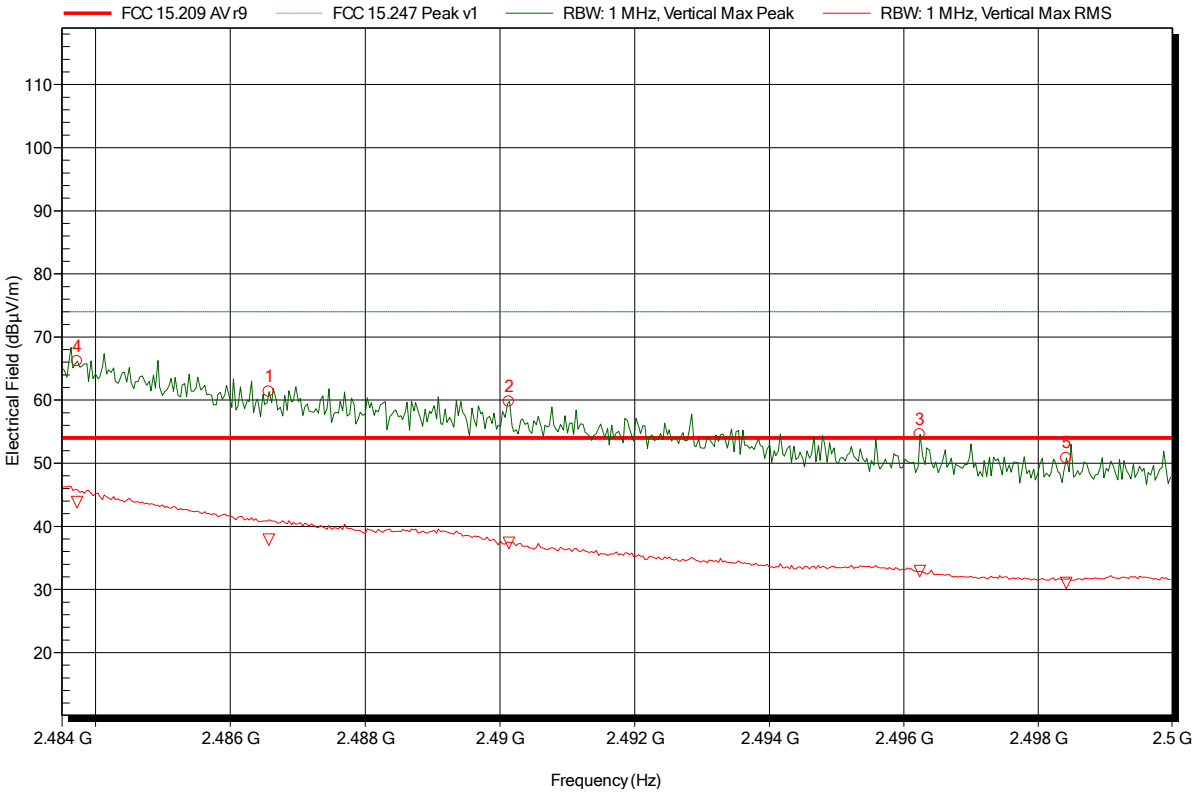

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	66.18 dBµV/m	74 dBµV/m	-7.82 dB	Pass
2.487 GHz	61.32 dBµV/m	74 dBµV/m	-12.68 dB	Pass
2.49 GHz	59.77 dBµV/m	74 dBµV/m	-14.23 dB	Pass
2.496 GHz	54.56 dBµV/m	74 dBµV/m	-19.44 dB	Pass
2.498 GHz	50.82 dBµV/m	74 dBµV/m	-23.18 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.484 GHz	43.86 dBµV/m	54 dBµV/m	-10.14 dB	Pass
2.487 GHz	37.91 dBµV/m	54 dBµV/m	-16.09 dB	Pass
2.49 GHz	37.41 dBµV/m	54 dBµV/m	-16.59 dB	Pass
2.496 GHz	32.9 dBµV/m	54 dBµV/m	-21.1 dB	Pass
2.498 GHz	31.04 dBµV/m	54 dBµV/m	-22.96 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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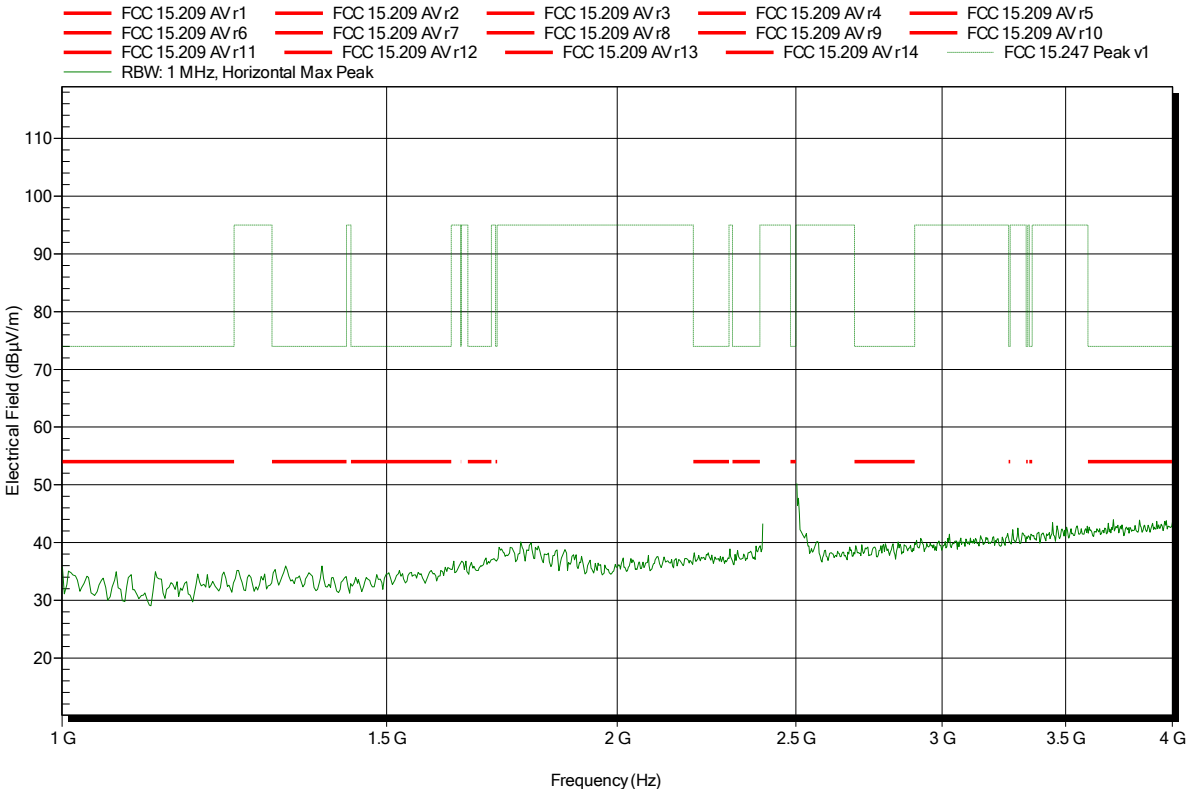

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11g; Ch. 11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; higher band edge

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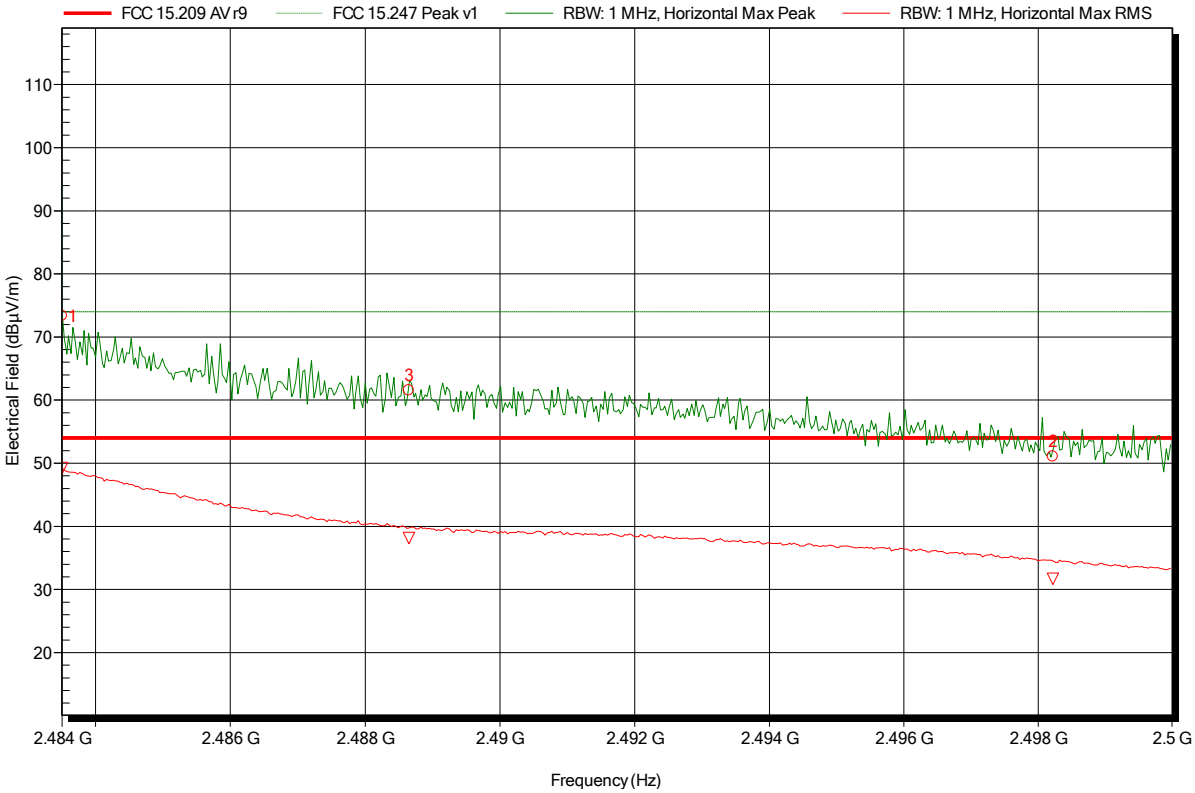

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	73.33 dBµV/m	74 dBµV/m	-0.67 dB	Pass
2.489 GHz	61.55 dBµV/m	74 dBµV/m	-12.45 dB	Pass
2.498 GHz	51.09 dBµV/m	74 dBµV/m	-22.91 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.484 GHz	49.26 dBµV/m	54 dBµV/m	-4.74 dB	Pass
2.489 GHz	38.17 dBµV/m	54 dBµV/m	-15.83 dB	Pass
2.498 GHz	31.67 dBµV/m	54 dBµV/m	-22.33 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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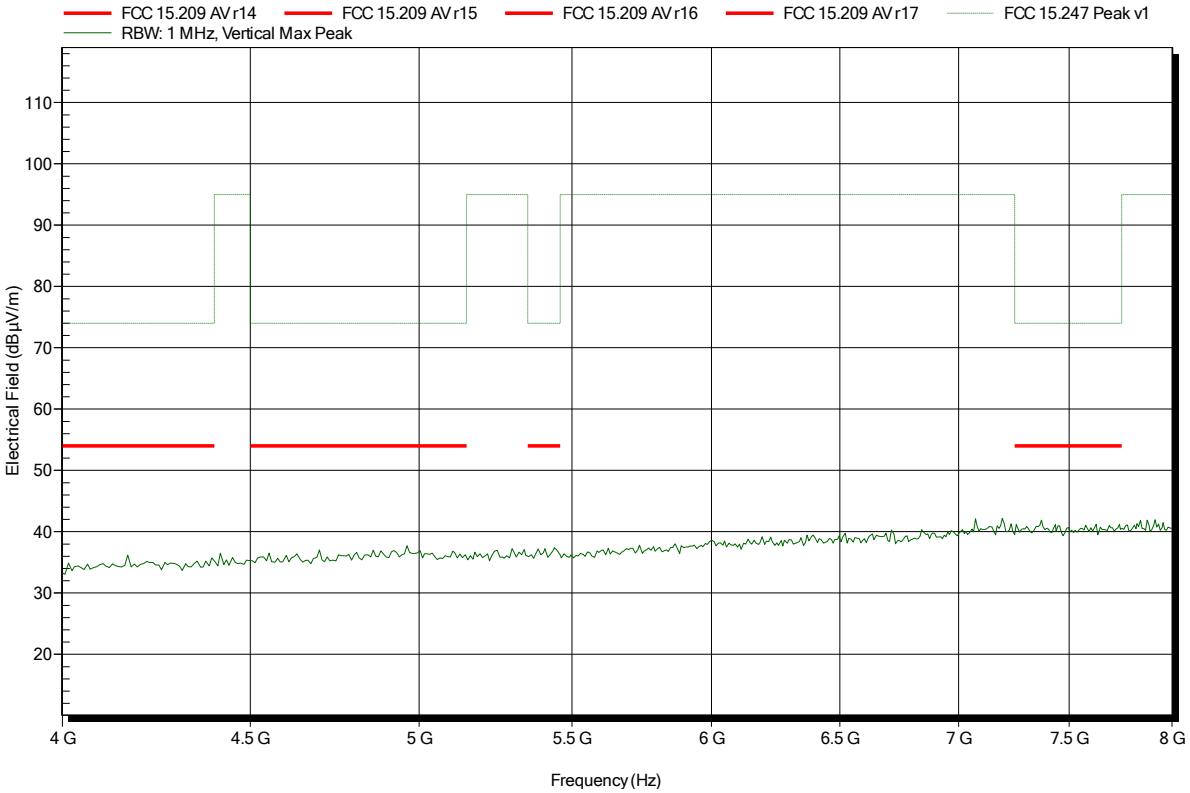

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.1; 2412 MHz; 6 Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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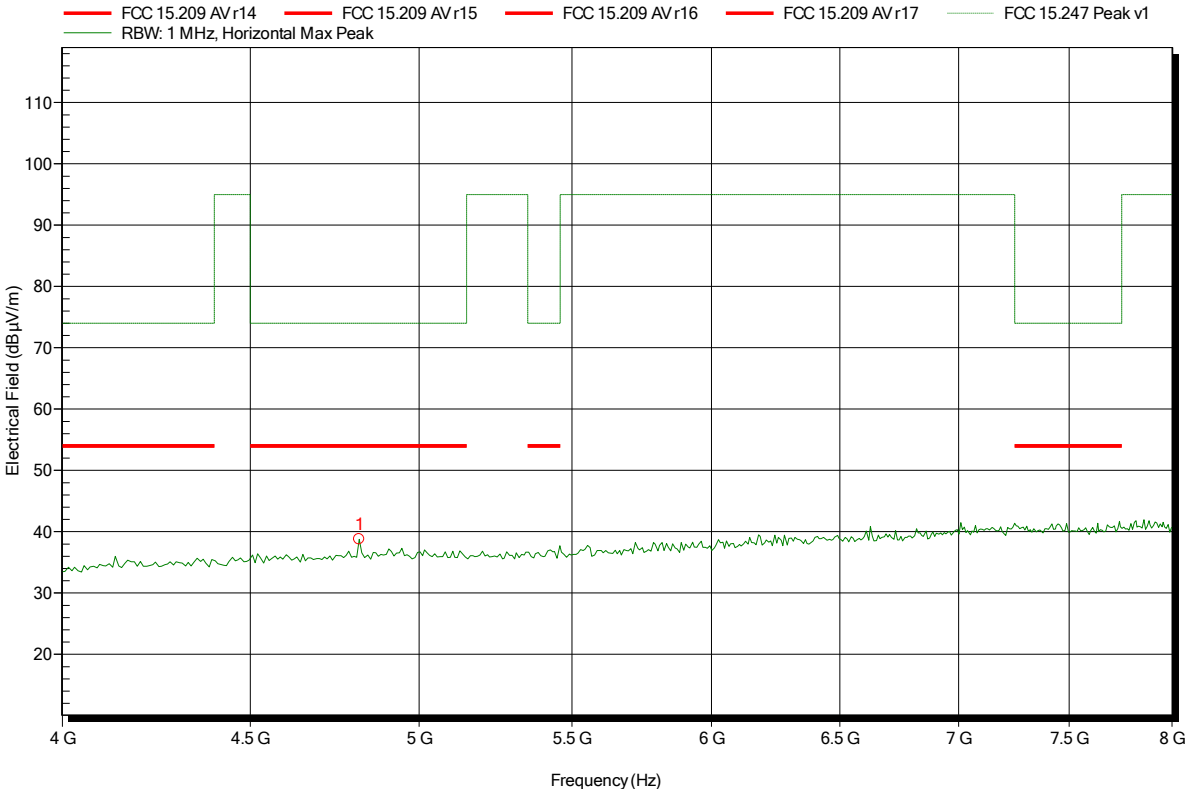

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.816 GHz	38.77 dBµV/m	74 dBµV/m	-35.23 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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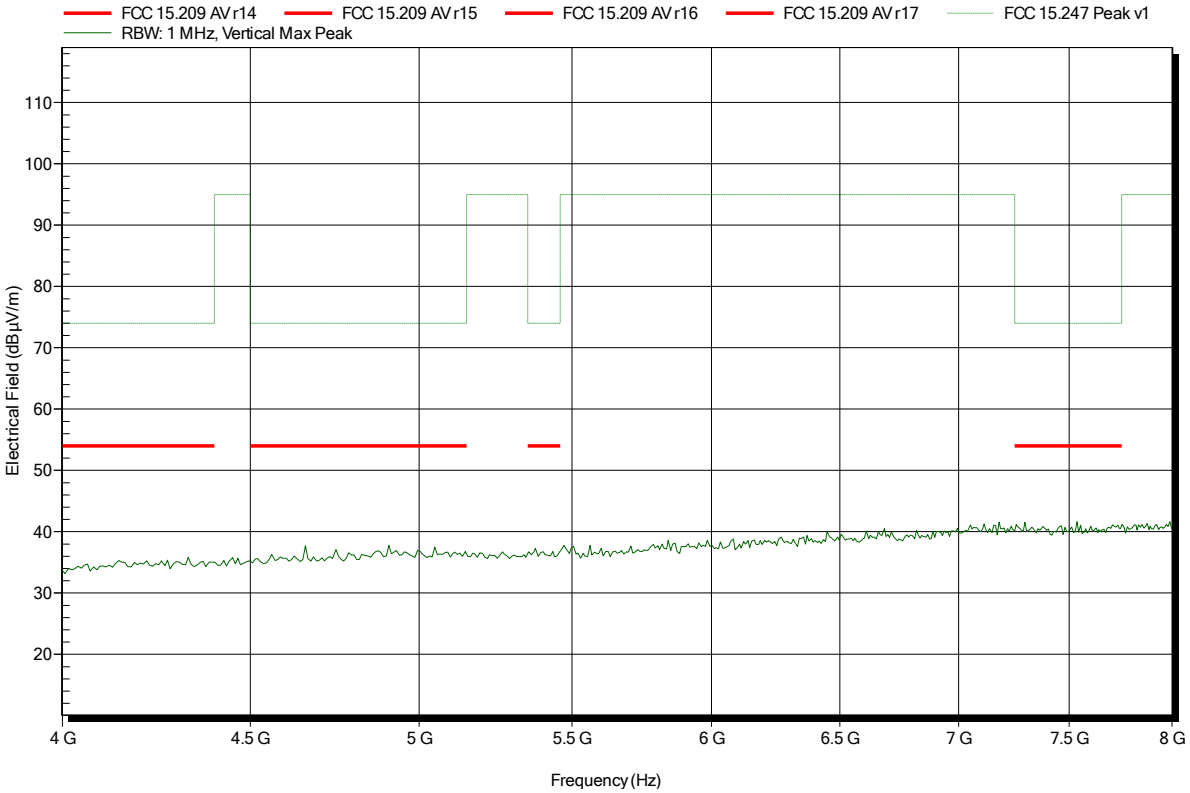

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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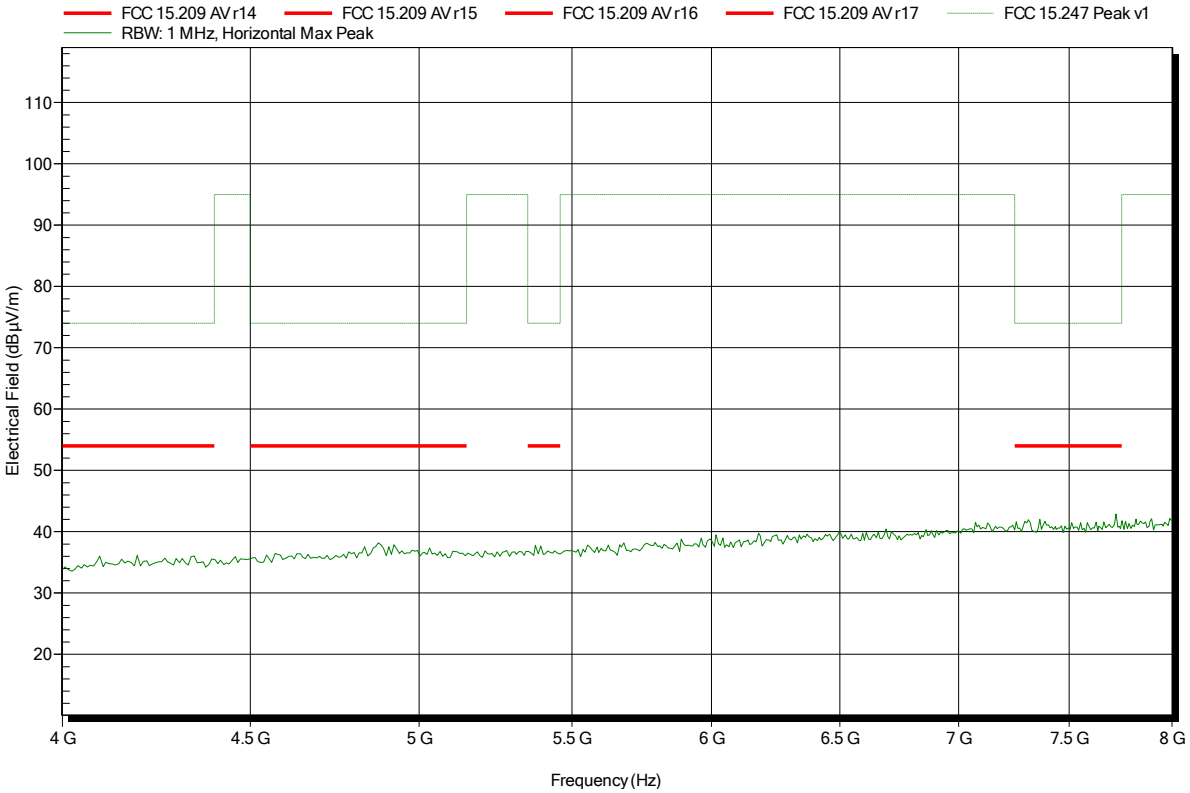

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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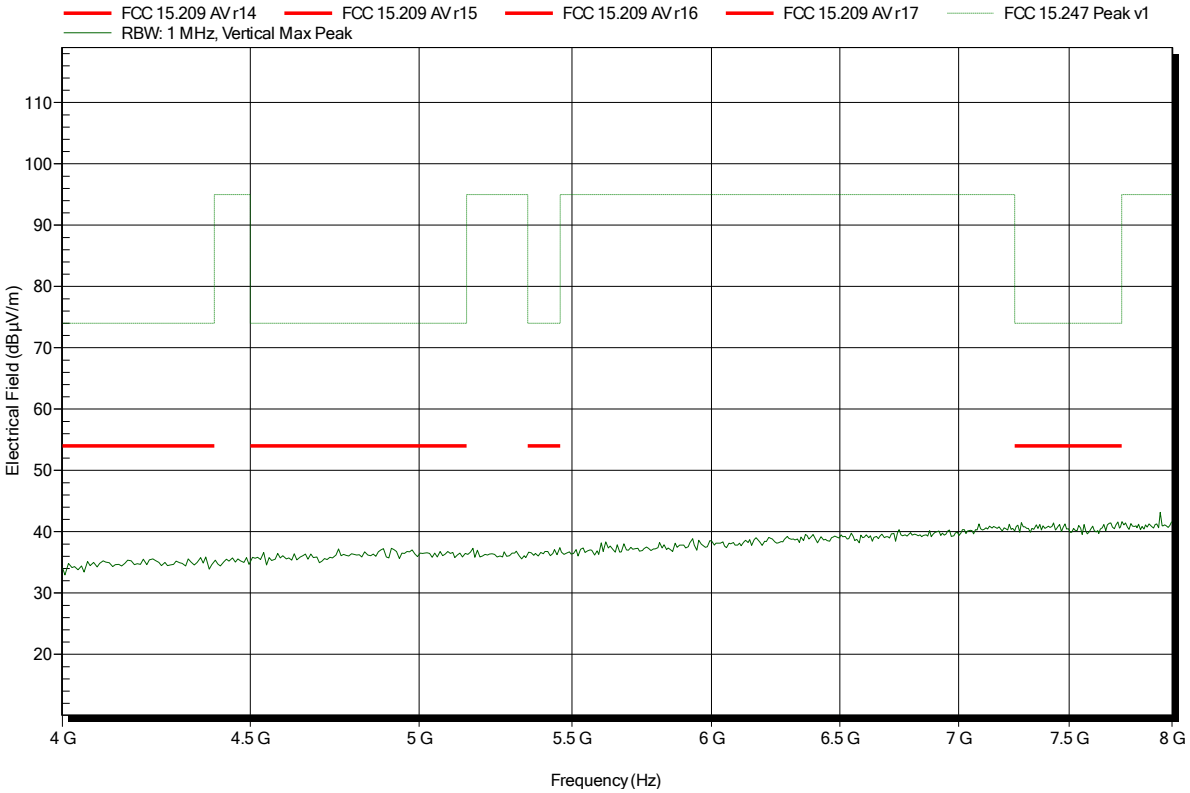

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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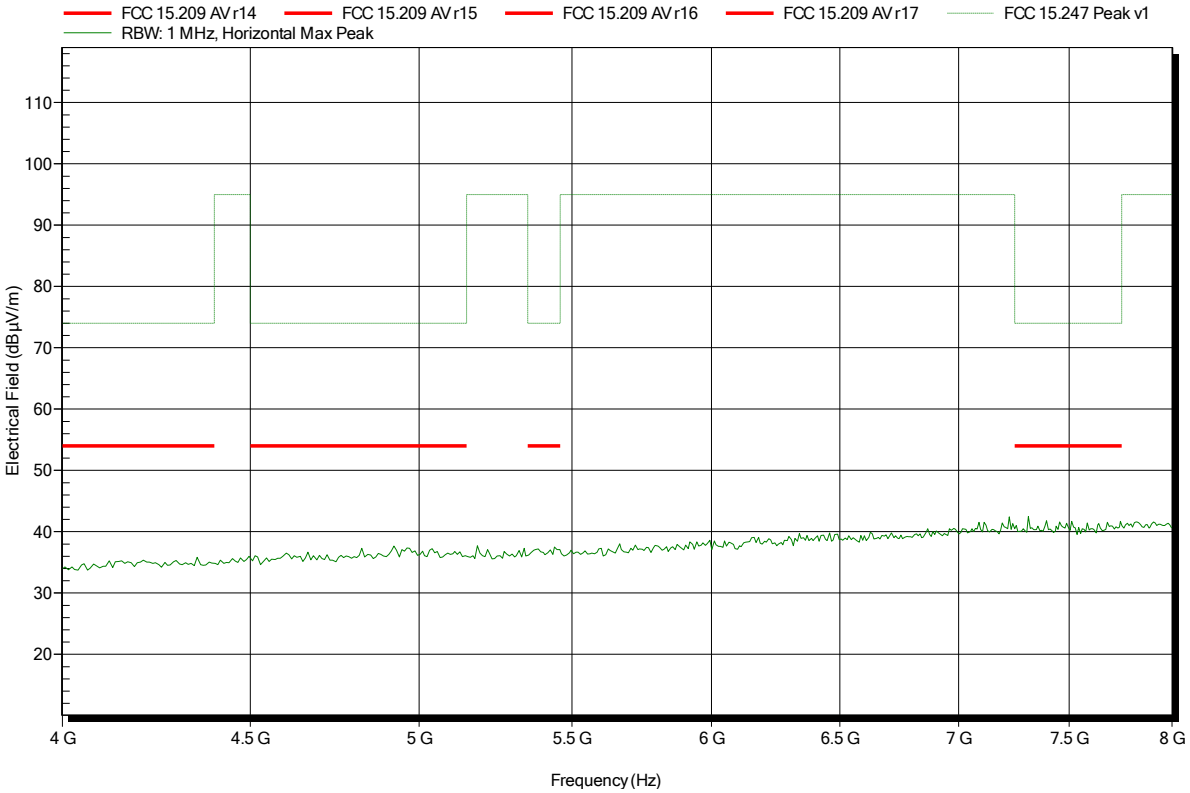

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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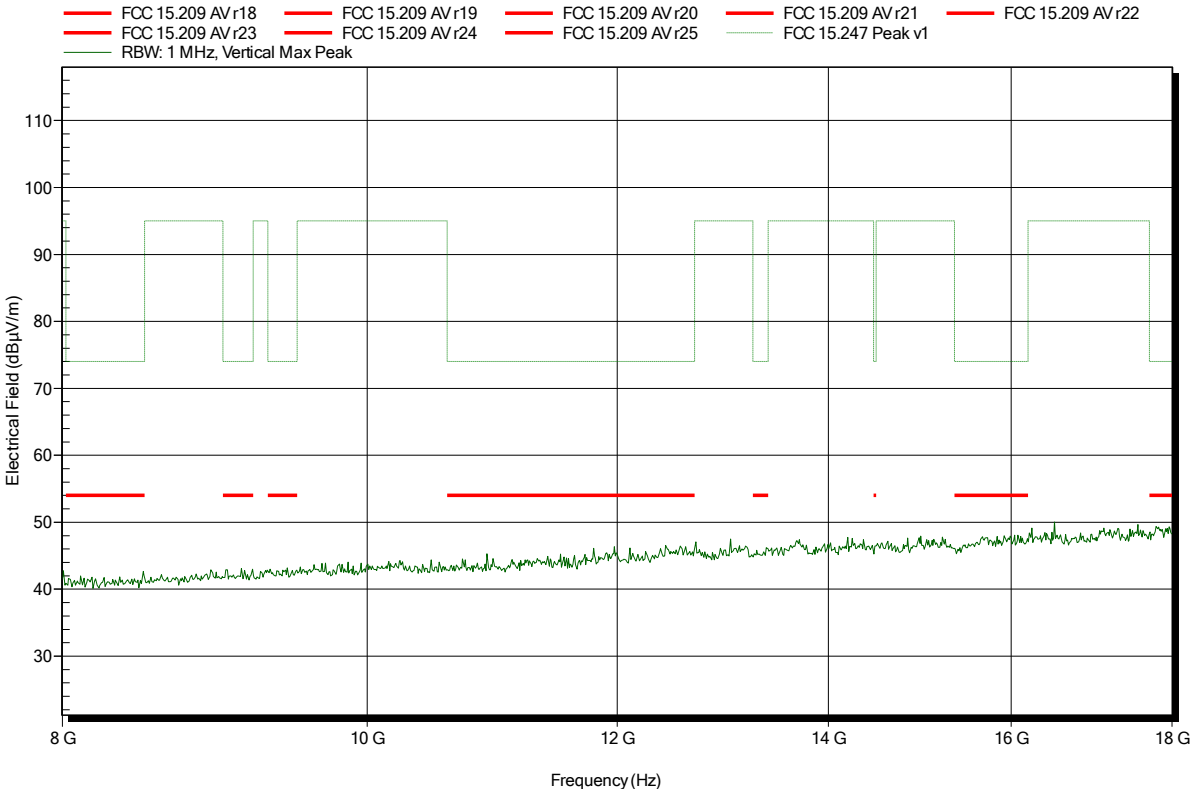

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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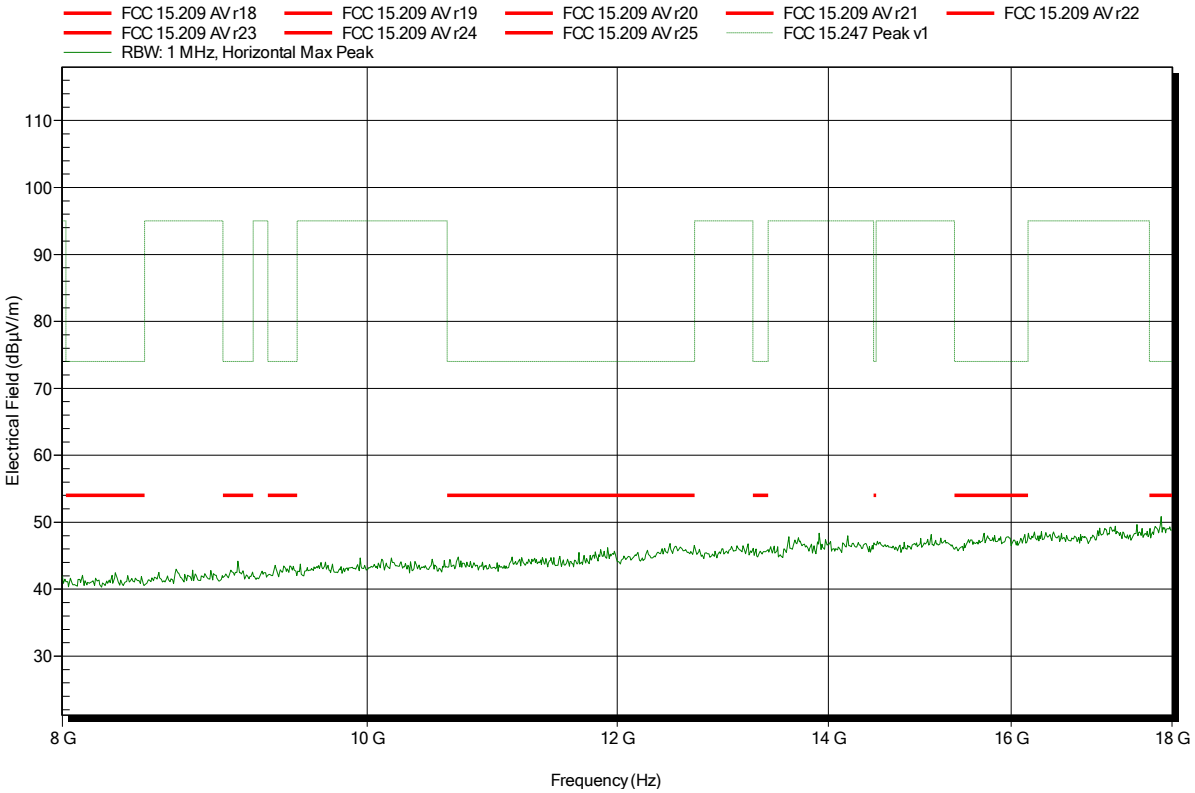

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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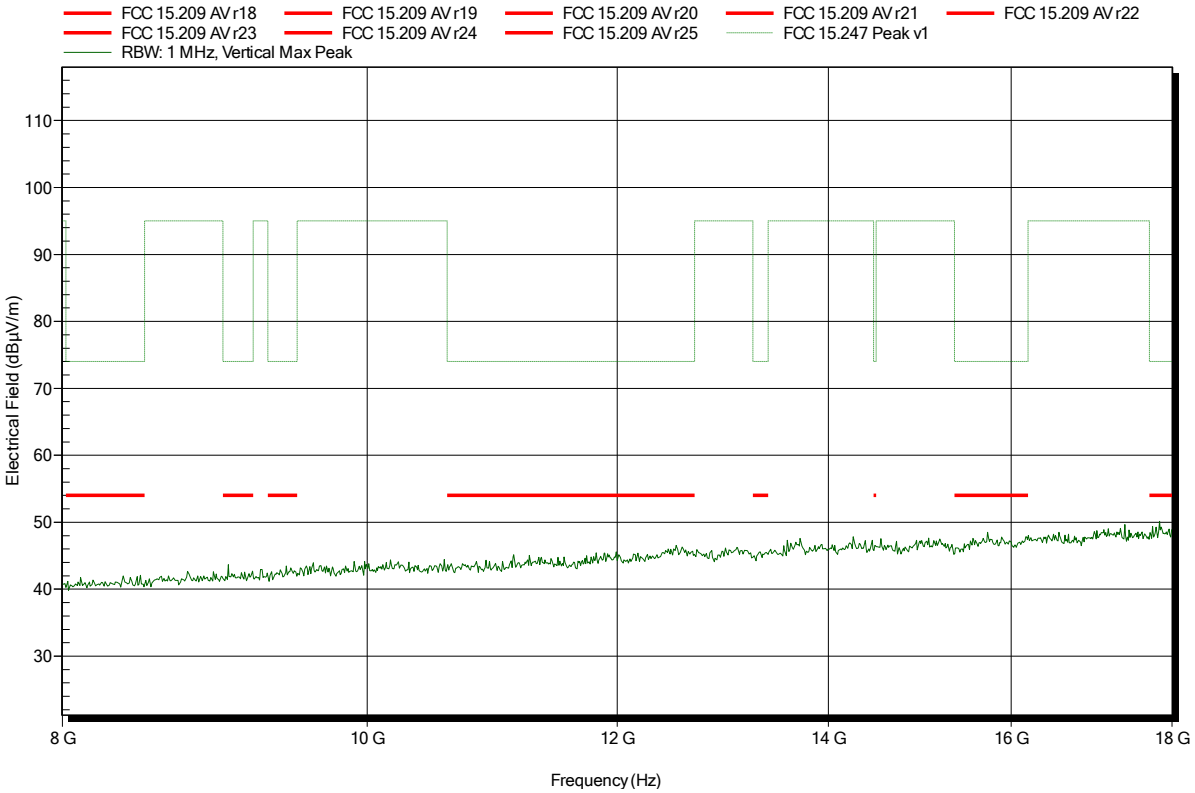

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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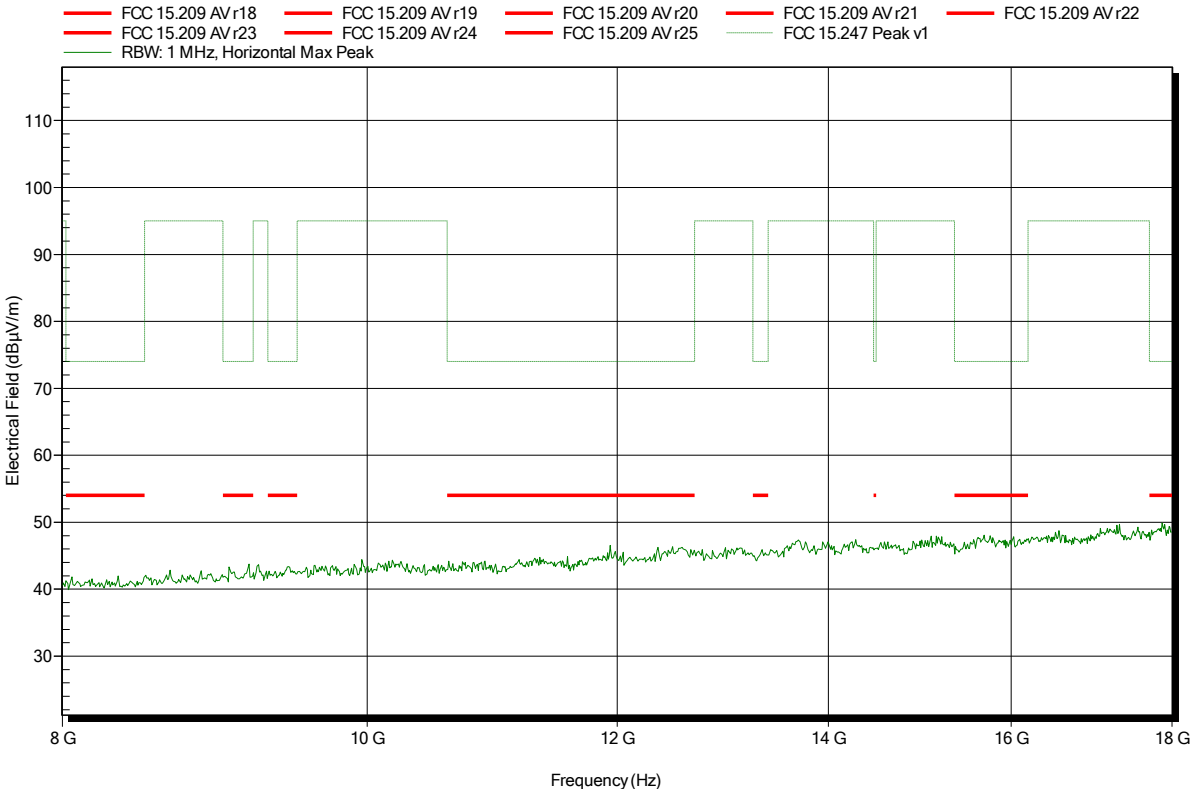

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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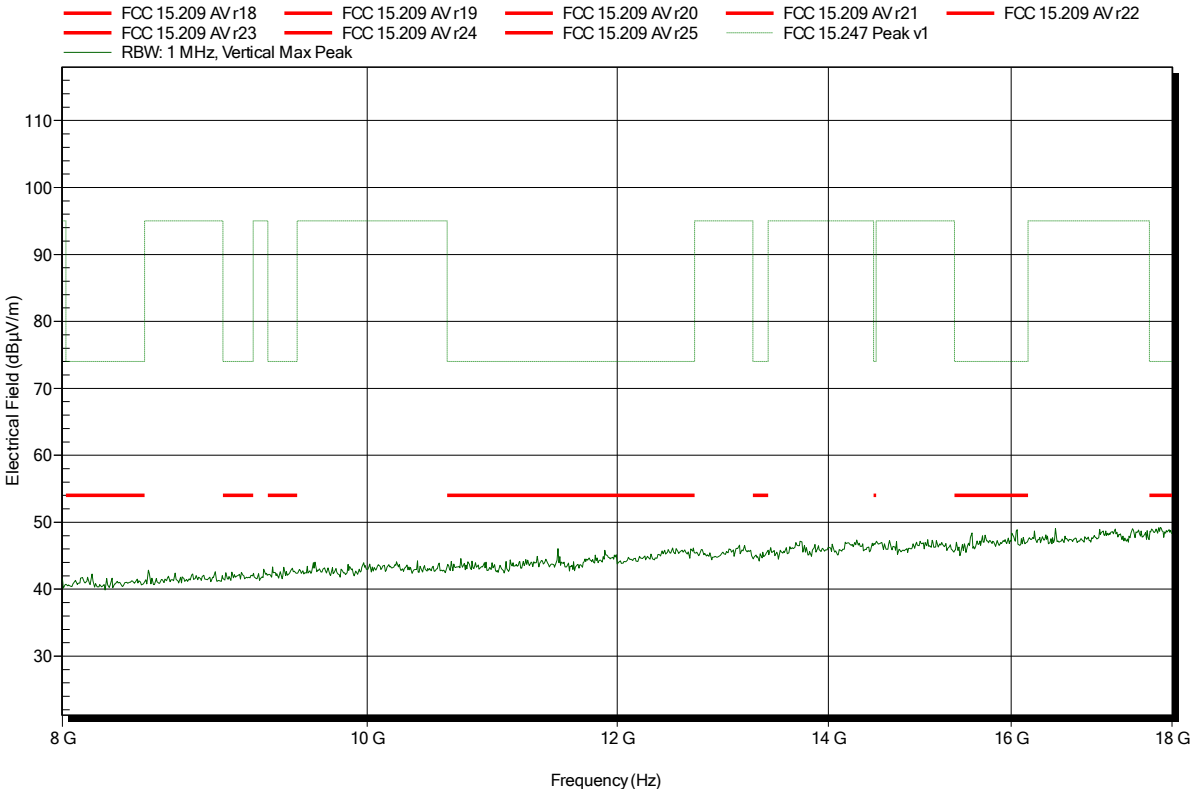

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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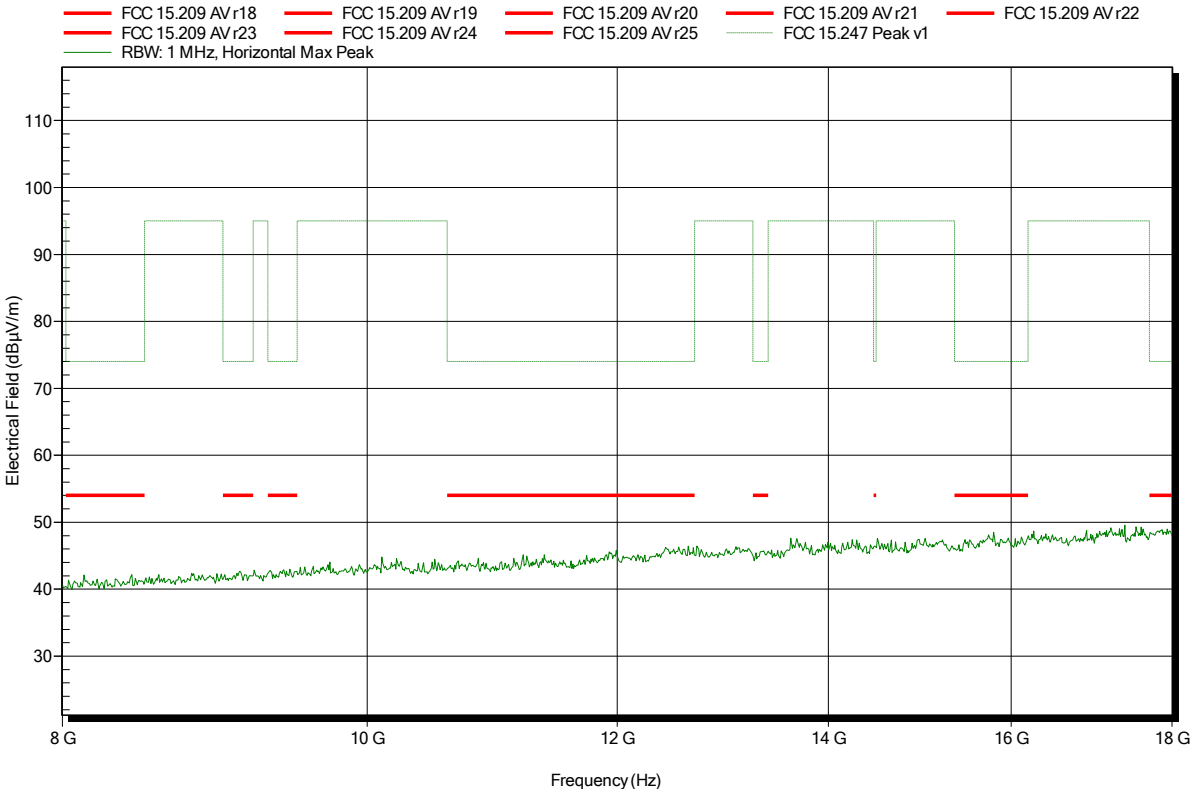

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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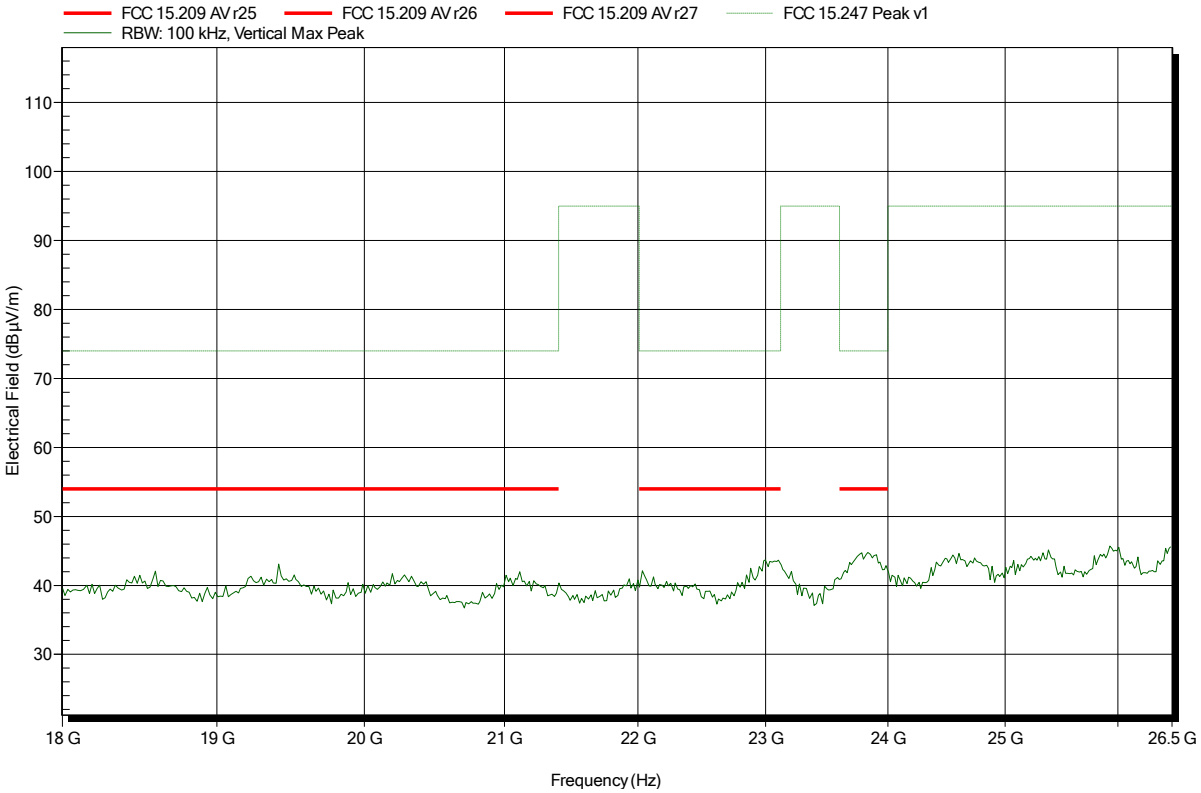

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.1; 2412 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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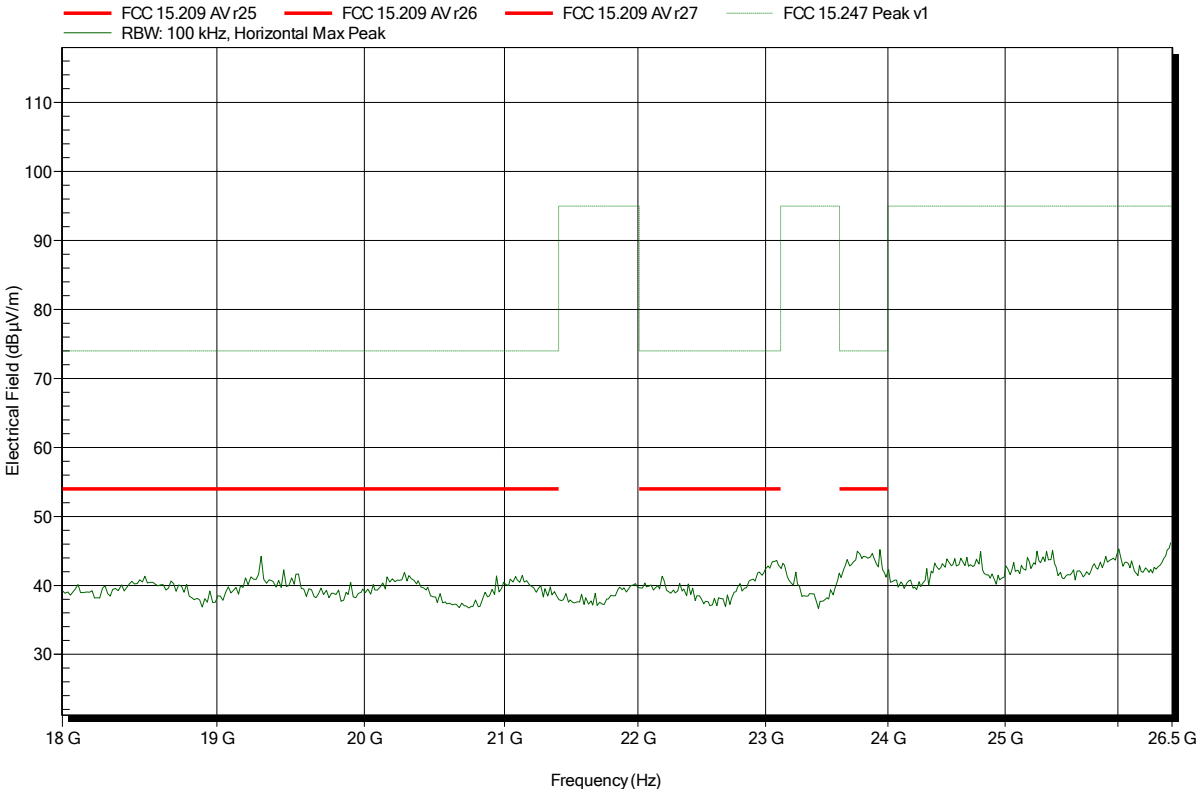

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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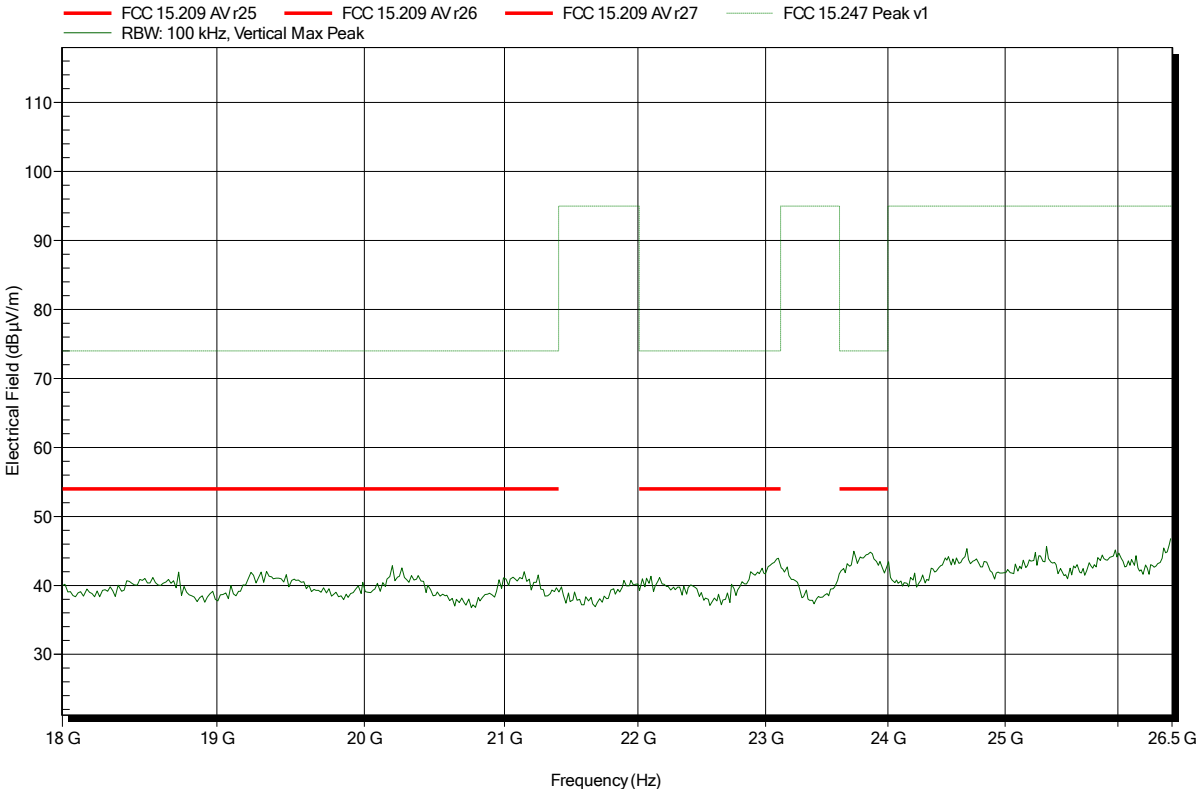

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.6; 2437 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT horizontal; worst case

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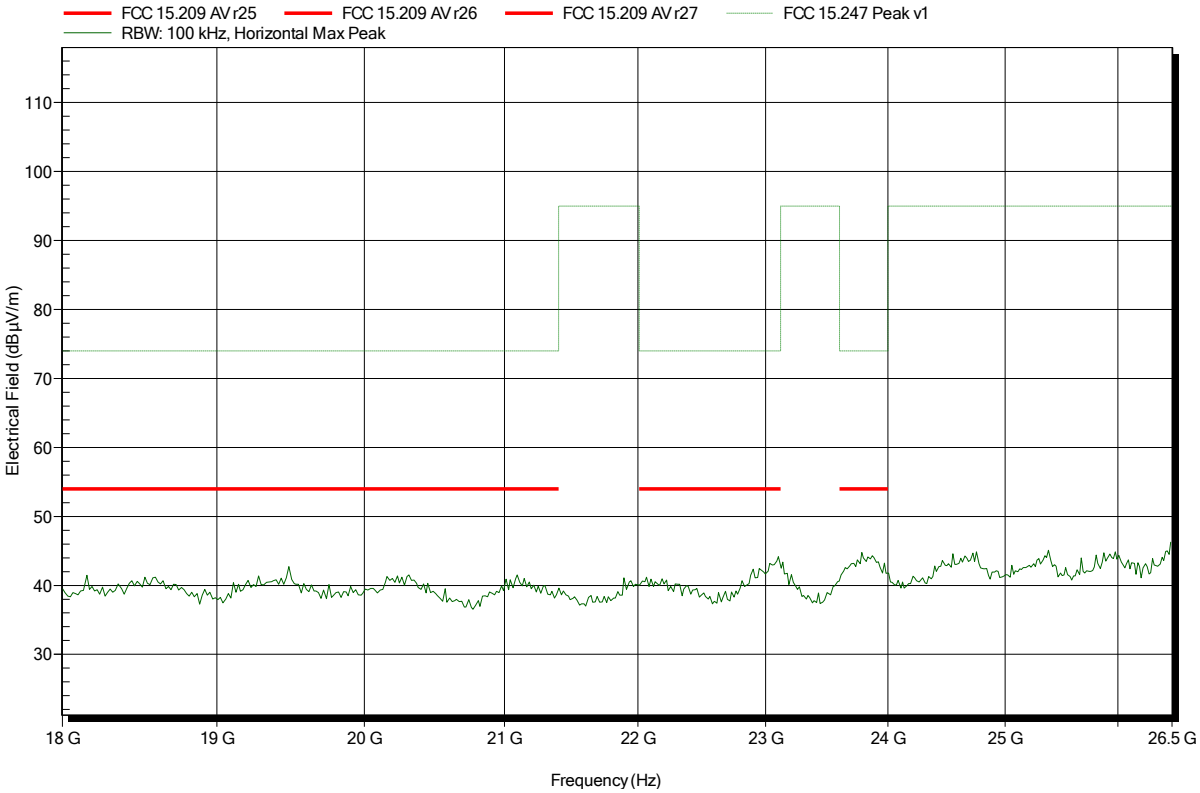

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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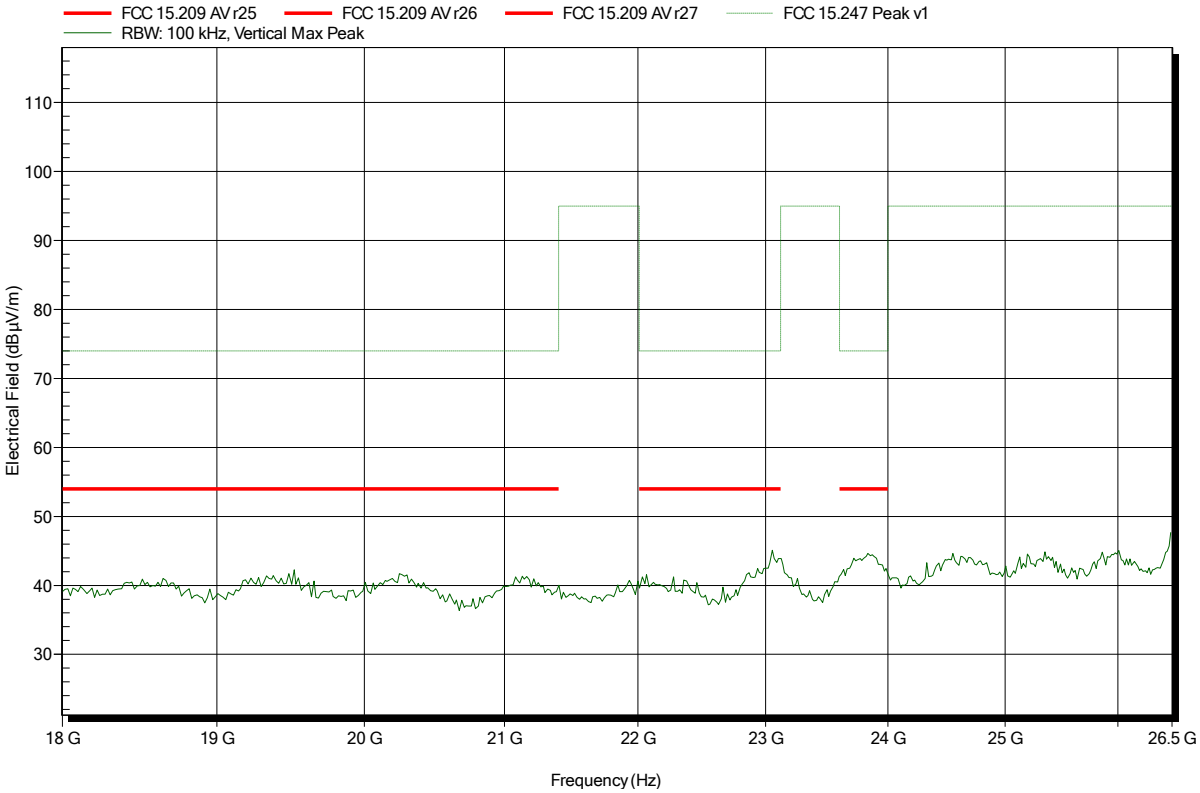

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11g; Ch.11; 2462 MHz; 6Mbps; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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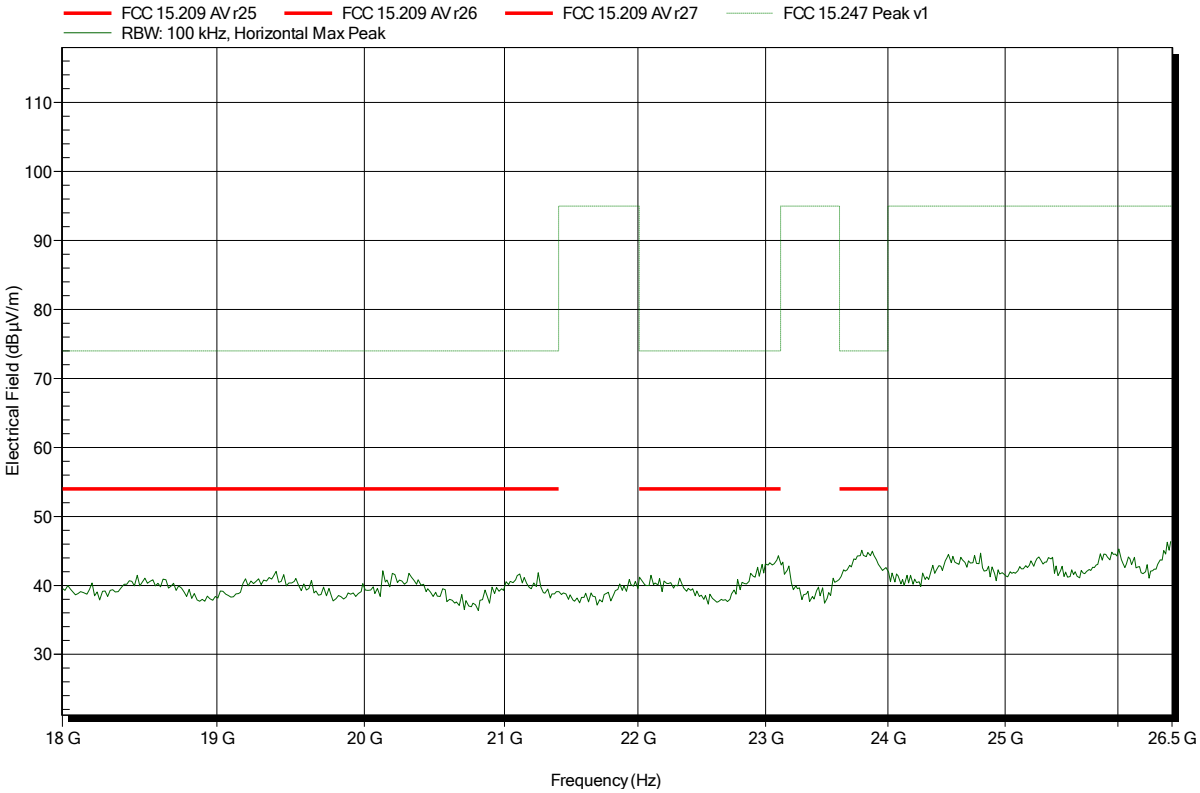

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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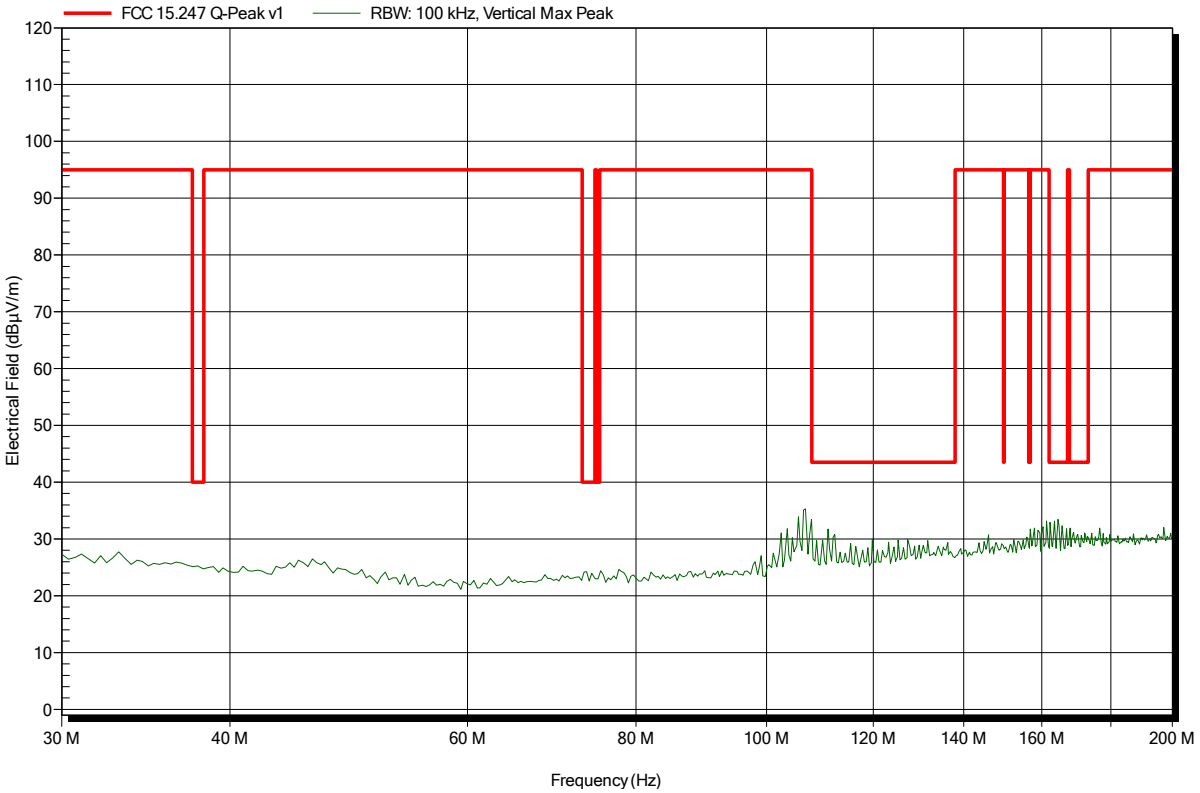

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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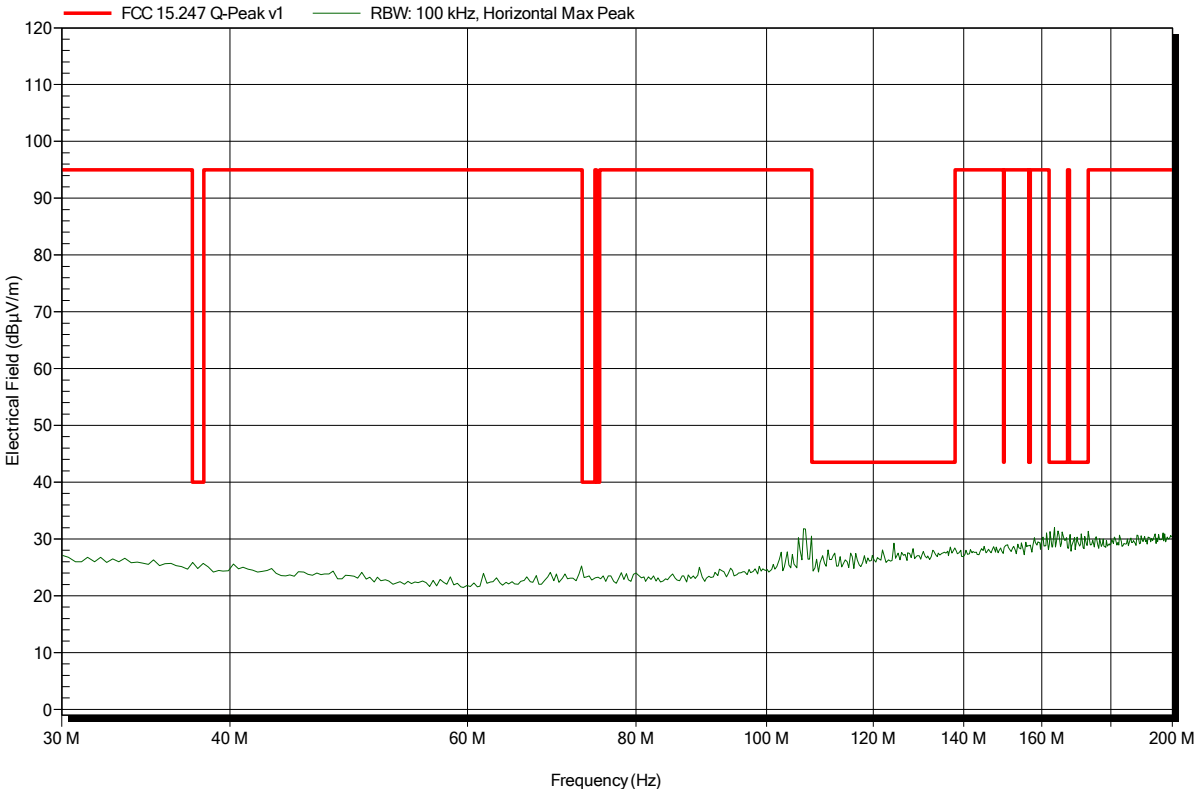

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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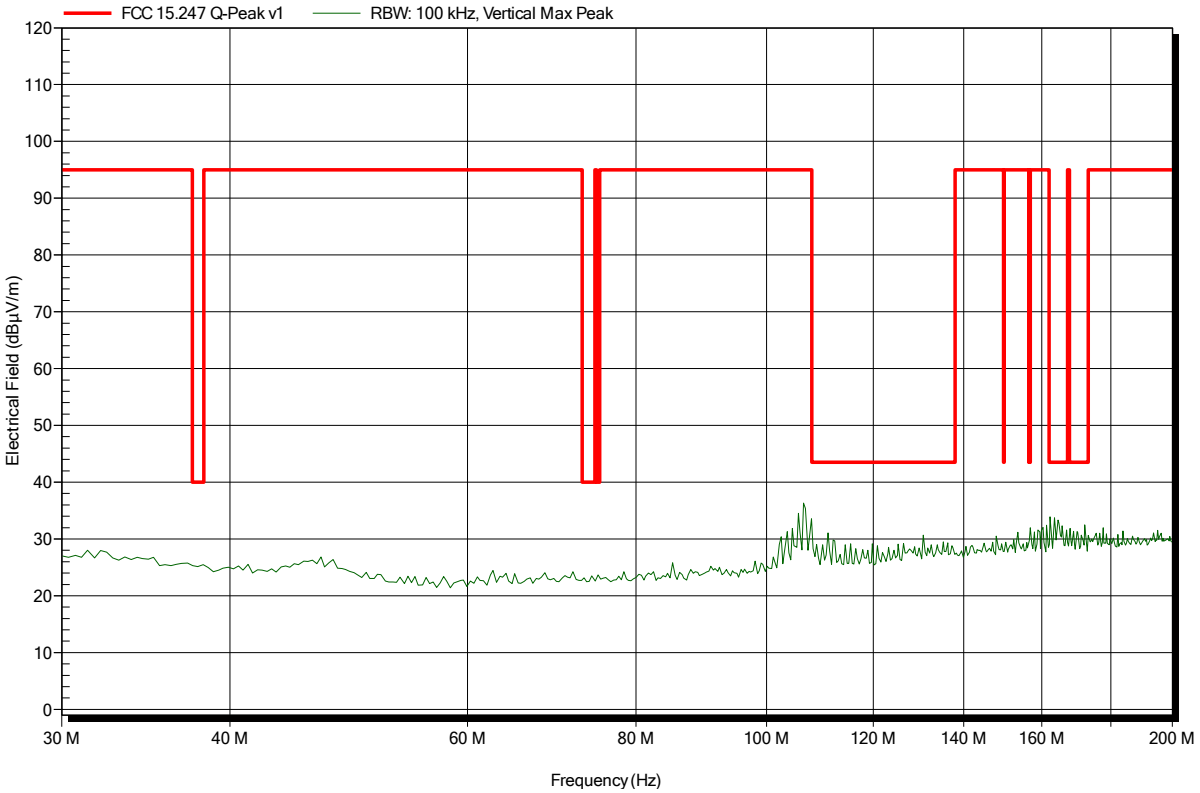

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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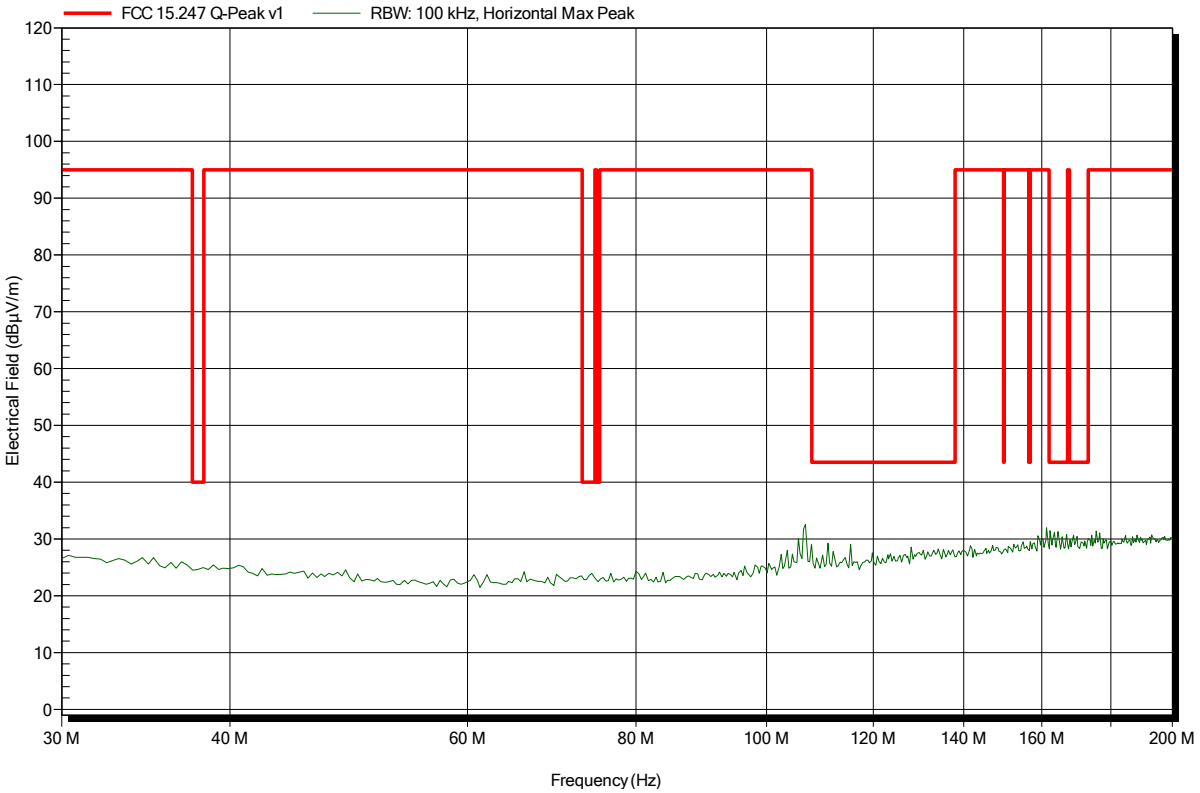

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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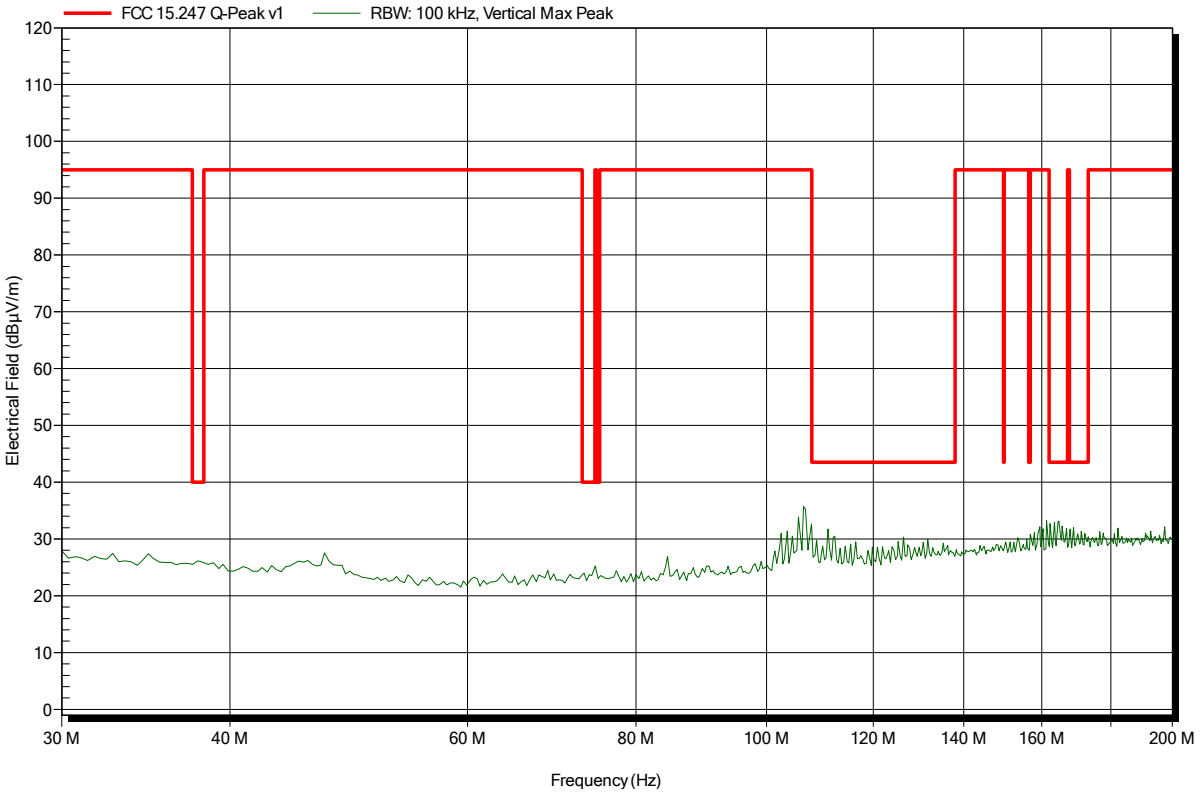

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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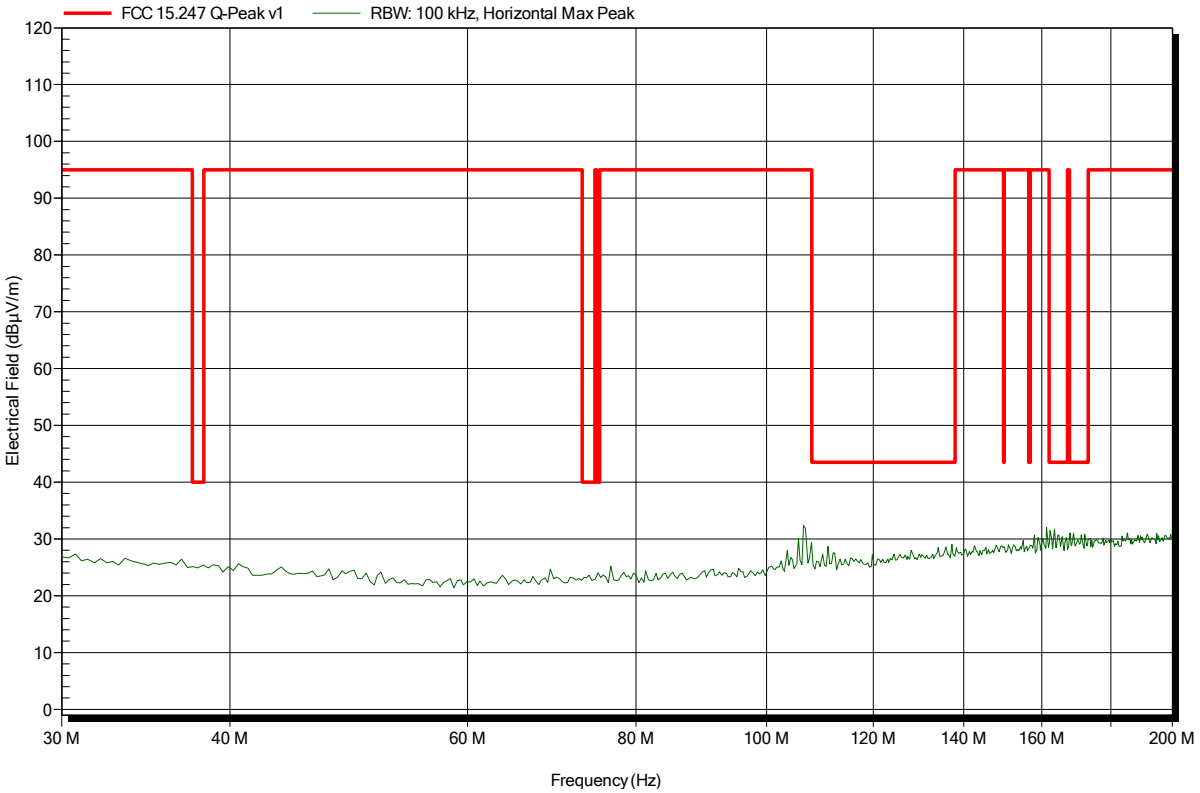

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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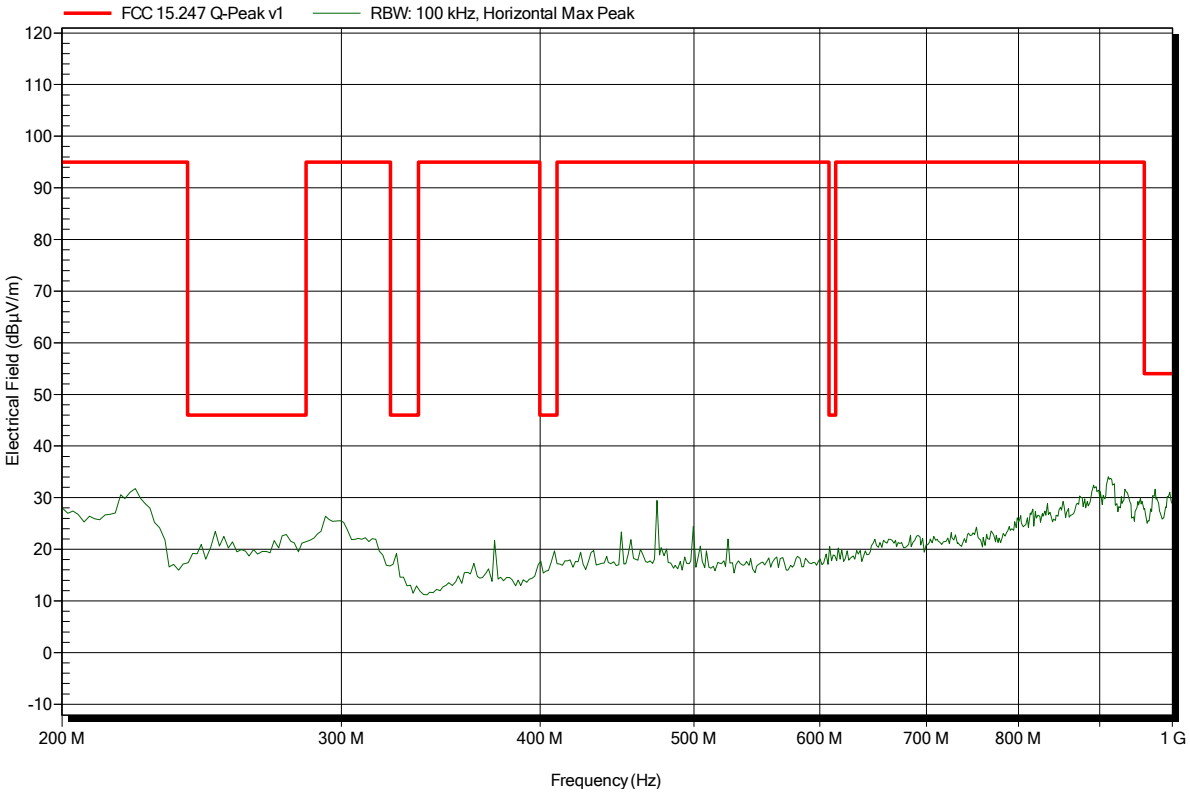

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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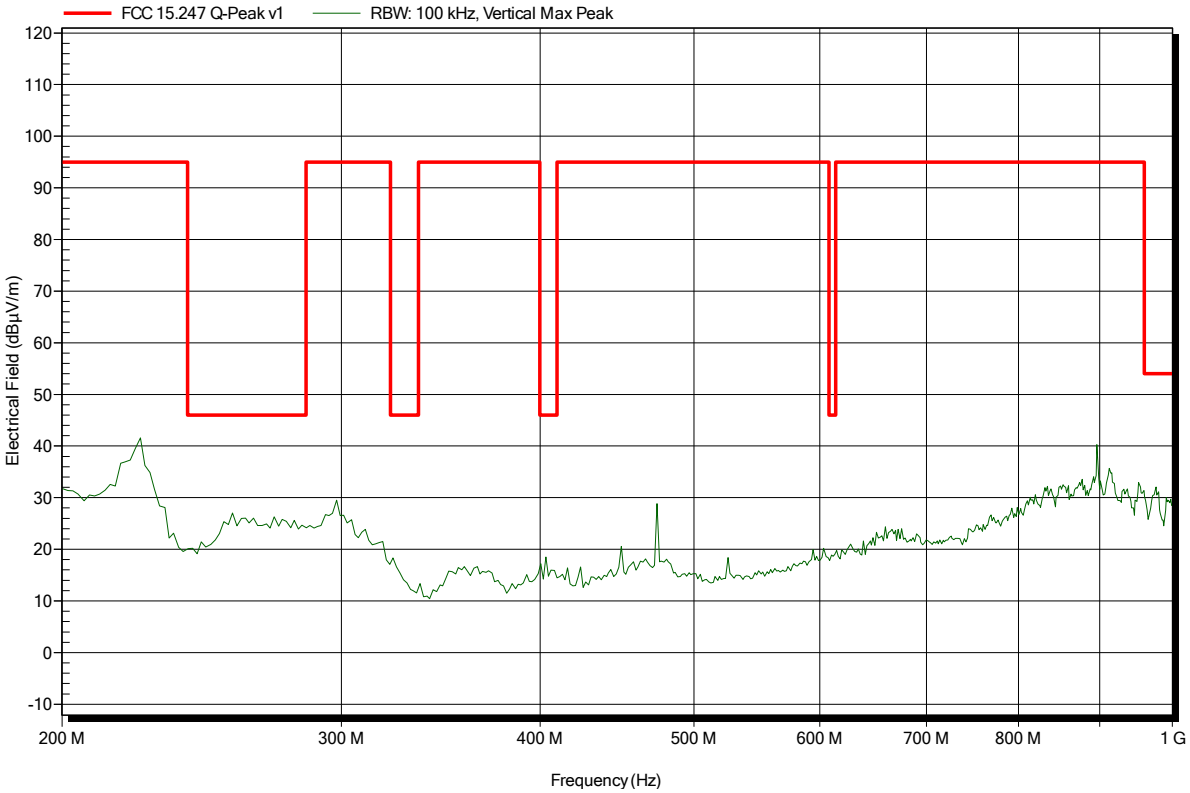

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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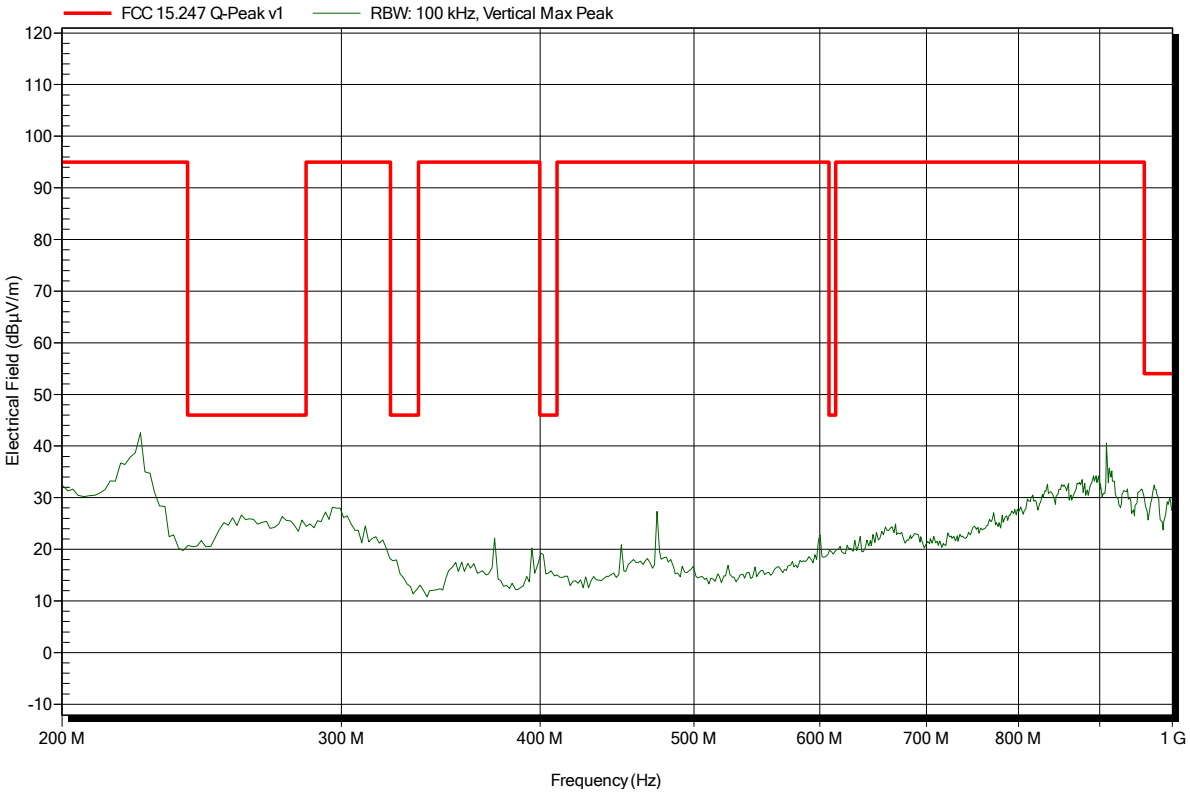

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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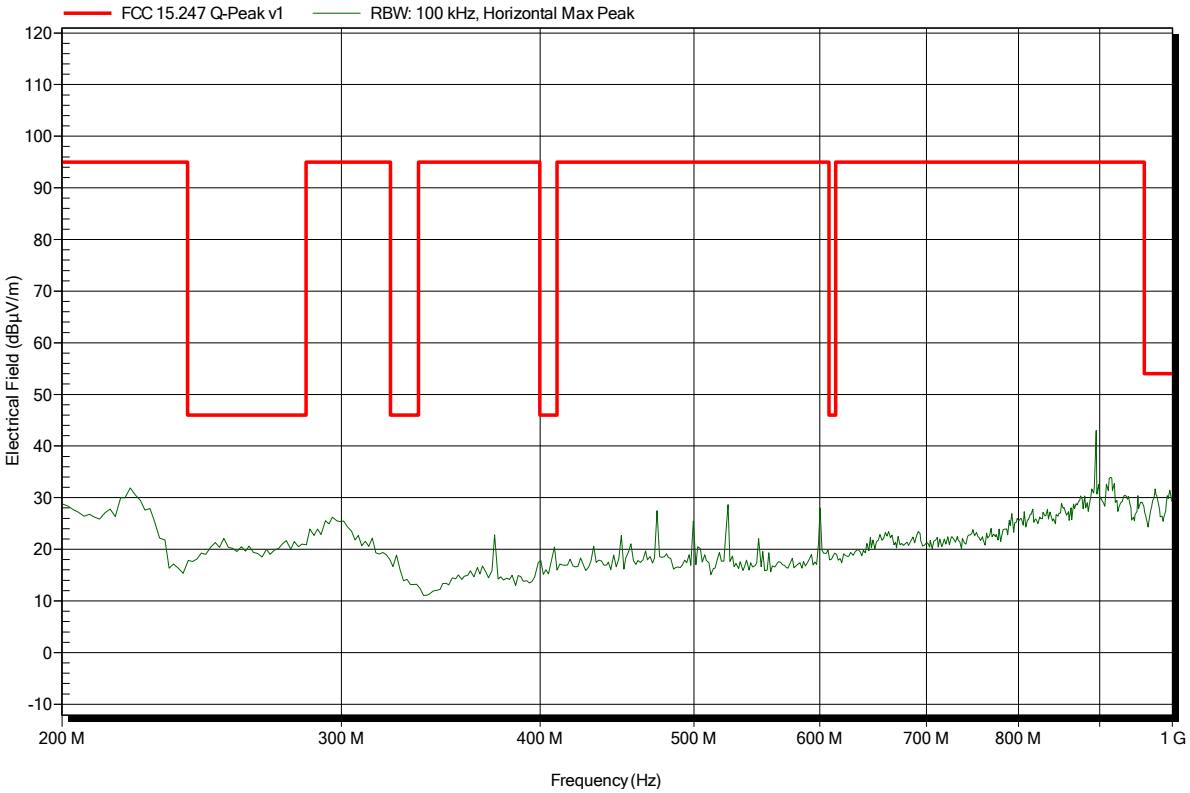

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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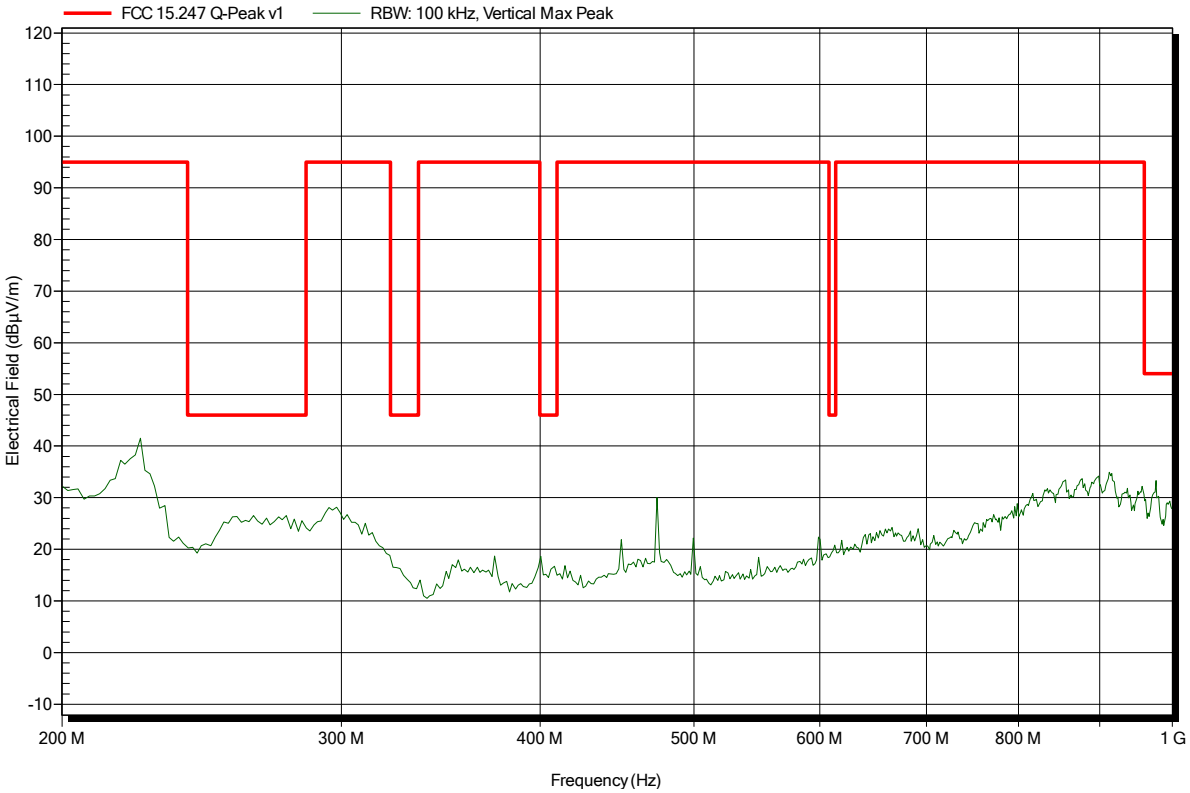

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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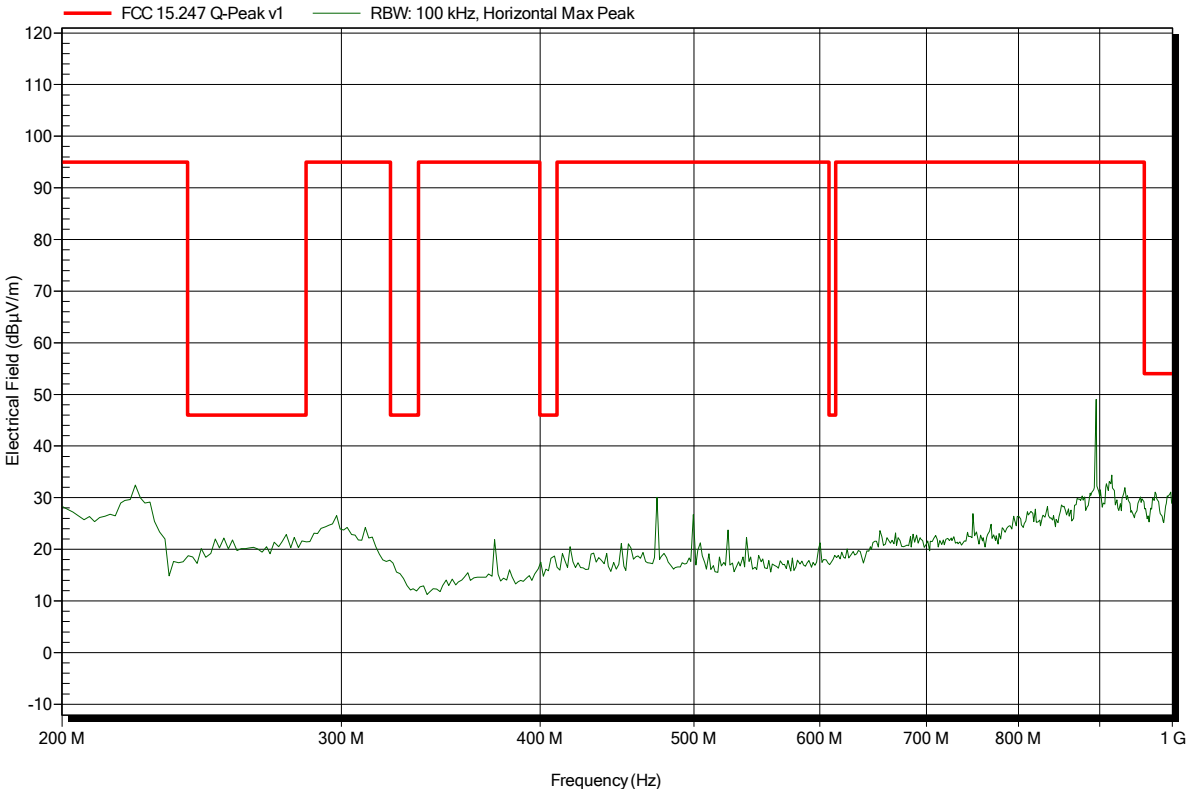

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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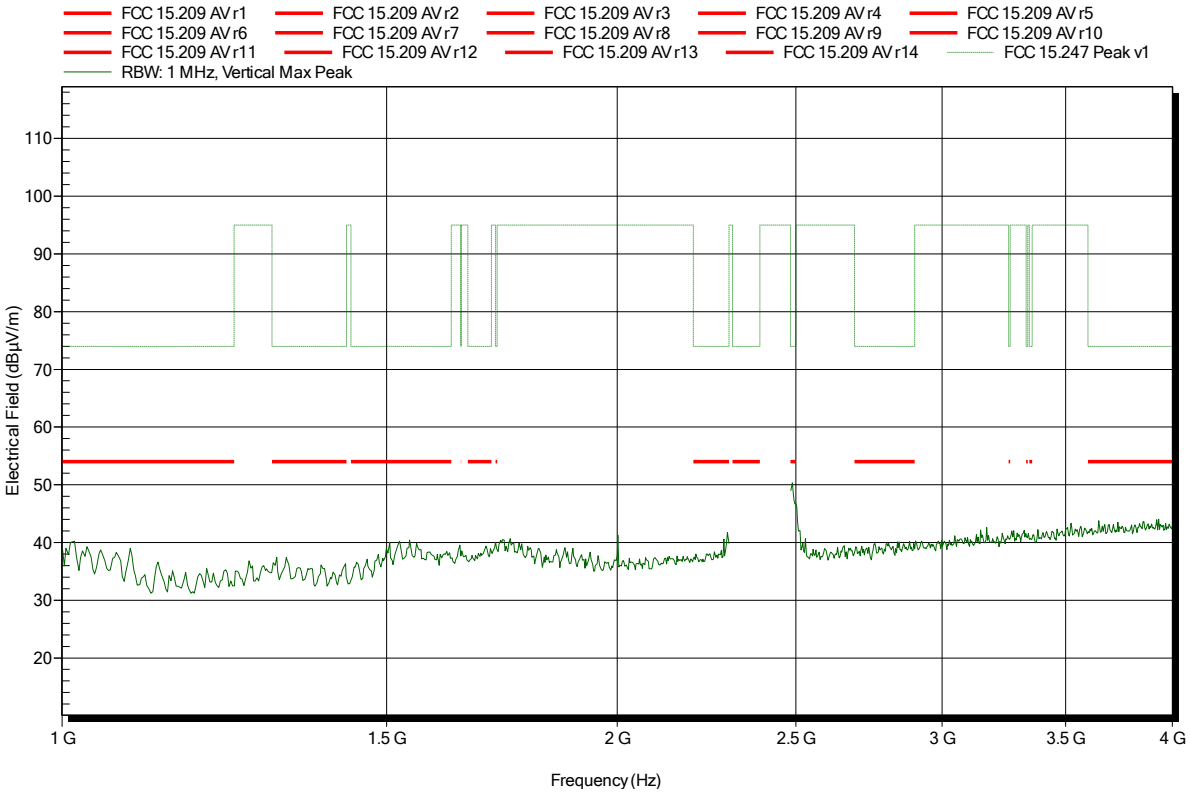

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m
Mode:	TX; IEEE 802.11gn; Ch. 3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower band edge

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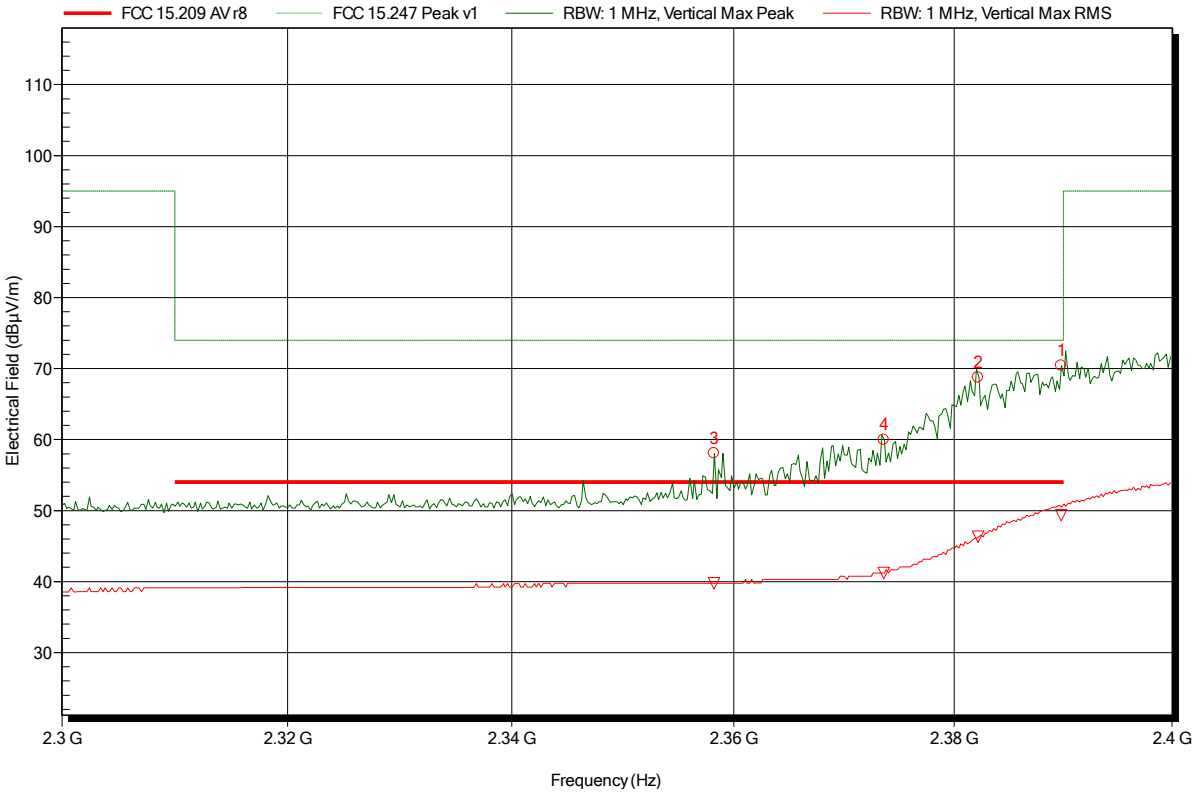

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.358 GHz	58.08 dBµV/m	74 dBµV/m	-15.92 dB	Pass
2.374 GHz	59.96 dBµV/m	74 dBµV/m	-14.04 dB	Pass
2.382 GHz	68.73 dBµV/m	74 dBµV/m	-5.27 dB	Pass
2.39 GHz	70.41 dBµV/m	74 dBµV/m	-3.59 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.358 GHz	39.77 dBµV/m	54 dBµV/m	-14.23 dB	Pass
2.374 GHz	41.22 dBµV/m	54 dBµV/m	-12.78 dB	Pass
2.382 GHz	46.33 dBµV/m	54 dBµV/m	-7.67 dB	Pass
2.39 GHz	49.35 dBµV/m	54 dBµV/m	-4.65 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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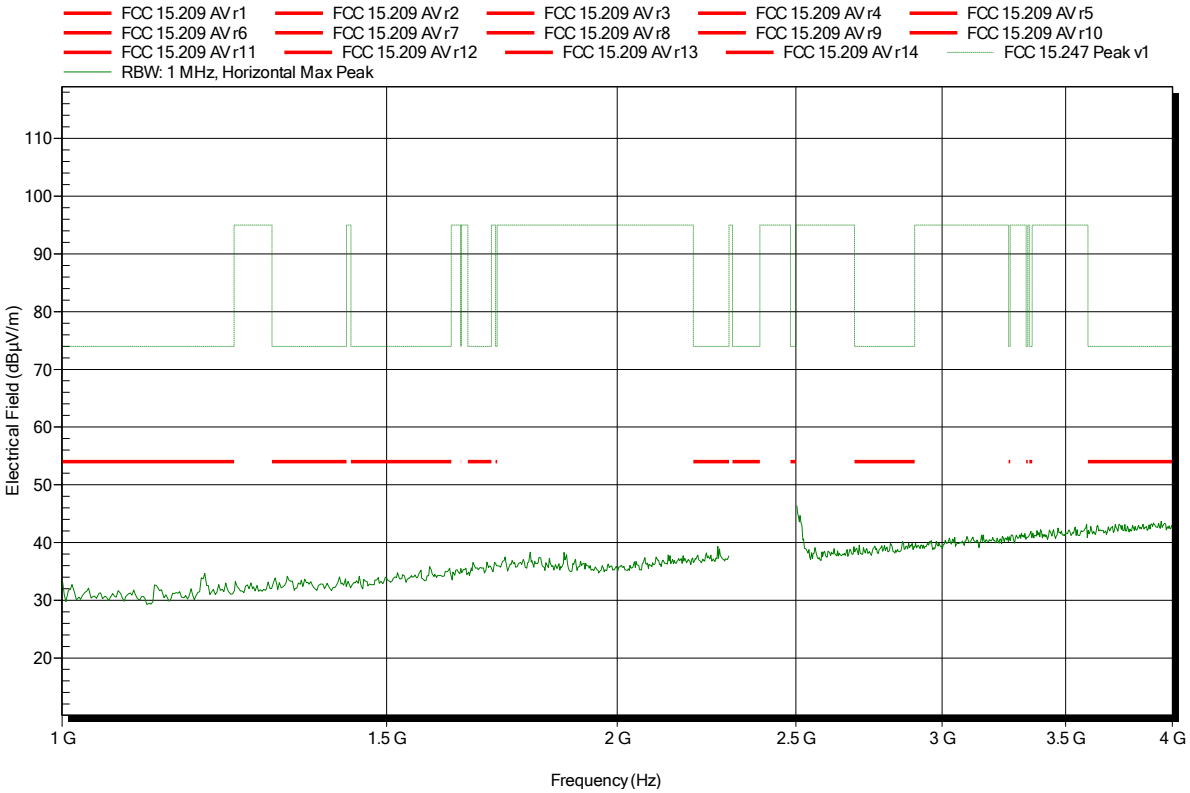

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower band edge

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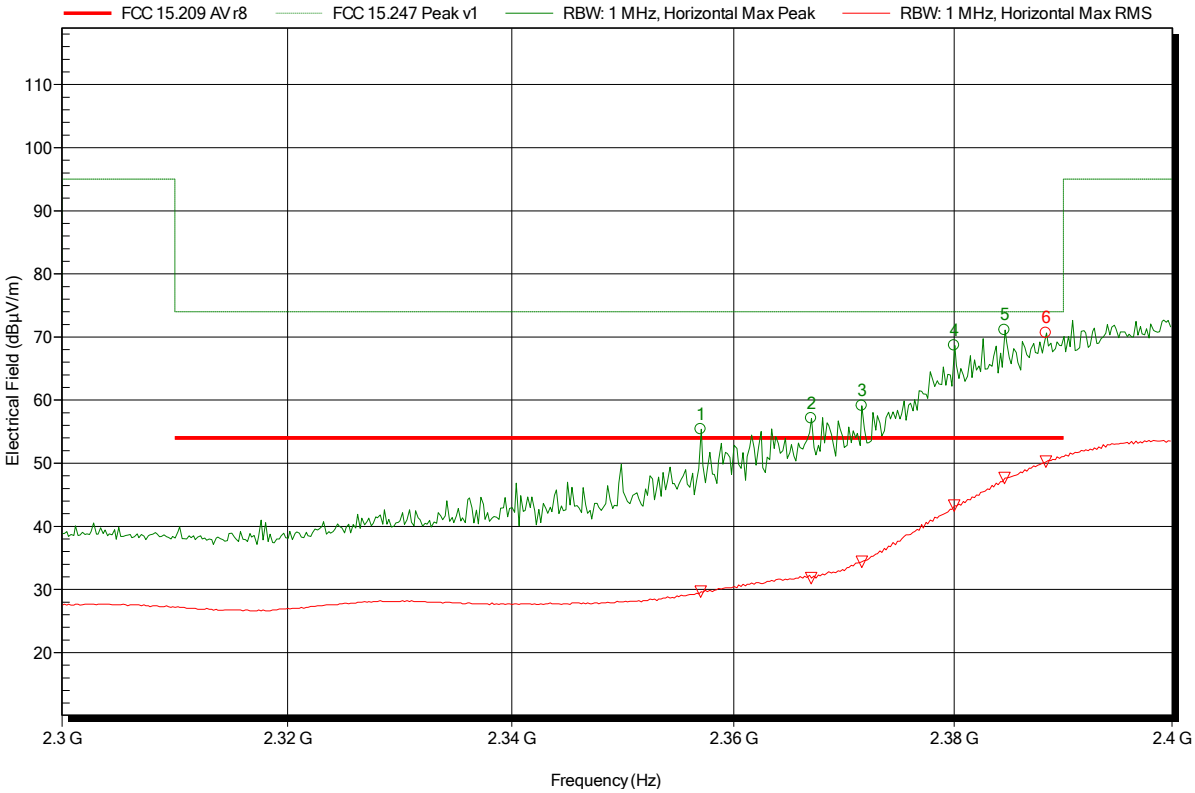

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.357 GHz	55.39 dBµV/m	74 dBµV/m	-18.61 dB	Pass
2.367 GHz	57.13 dBµV/m	74 dBµV/m	-16.87 dB	Pass
2.372 GHz	59.12 dBµV/m	74 dBµV/m	-14.88 dB	Pass
2.38 GHz	68.65 dBµV/m	74 dBµV/m	-5.35 dB	Pass
2.385 GHz	71.1 dBµV/m	74 dBµV/m	-2.9 dB	Pass
2.388 GHz	70.63 dBµV/m	74 dBµV/m	-3.37 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.357 GHz	29.63 dBµV/m	54 dBµV/m	-24.37 dB	Pass
2.367 GHz	31.8 dBµV/m	54 dBµV/m	-22.2 dB	Pass
2.372 GHz	34.36 dBµV/m	54 dBµV/m	-19.64 dB	Pass
2.38 GHz	43.29 dBµV/m	54 dBµV/m	-10.71 dB	Pass
2.385 GHz	47.64 dBµV/m	54 dBµV/m	-6.36 dB	Pass
2.388 GHz	50.24 dBµV/m	54 dBµV/m	-3.76 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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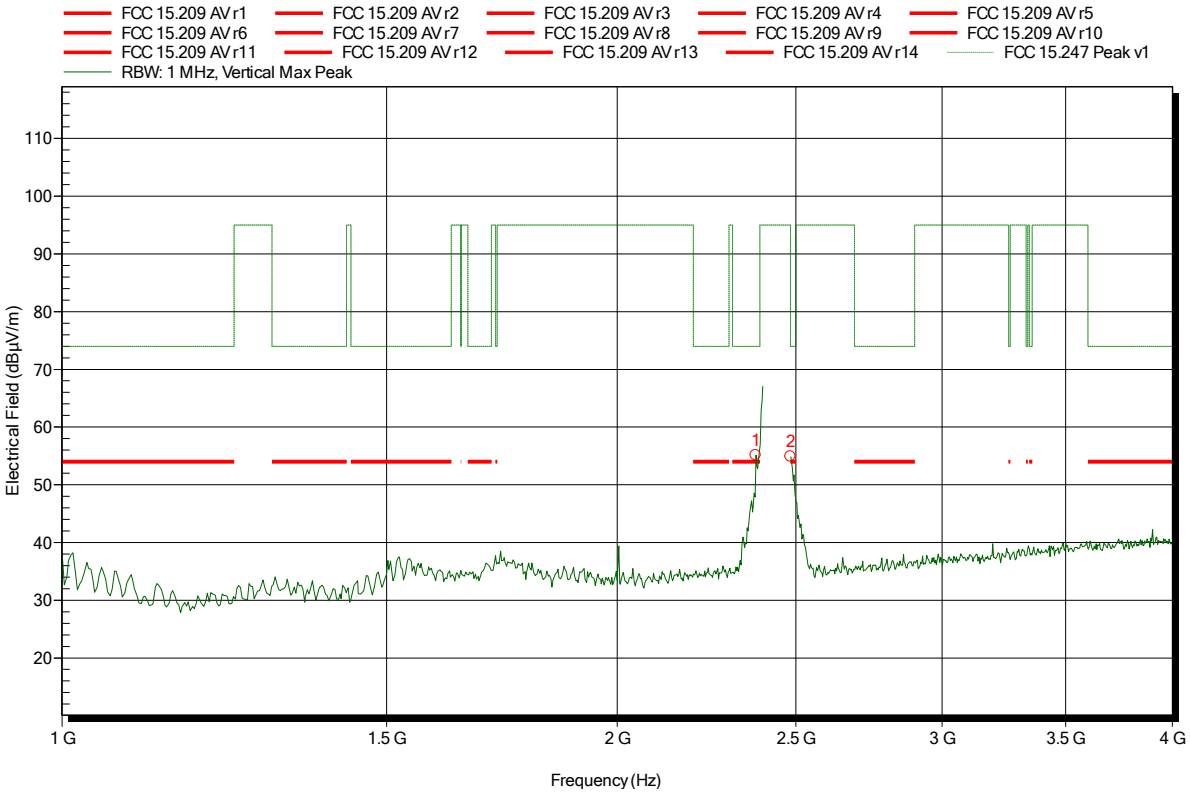

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.378 GHz	55.11 dBµV/m	74 dBµV/m	-18.89 dB	Pass
2.484 GHz	54.88 dBµV/m	74 dBµV/m	-19.12 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower band edge

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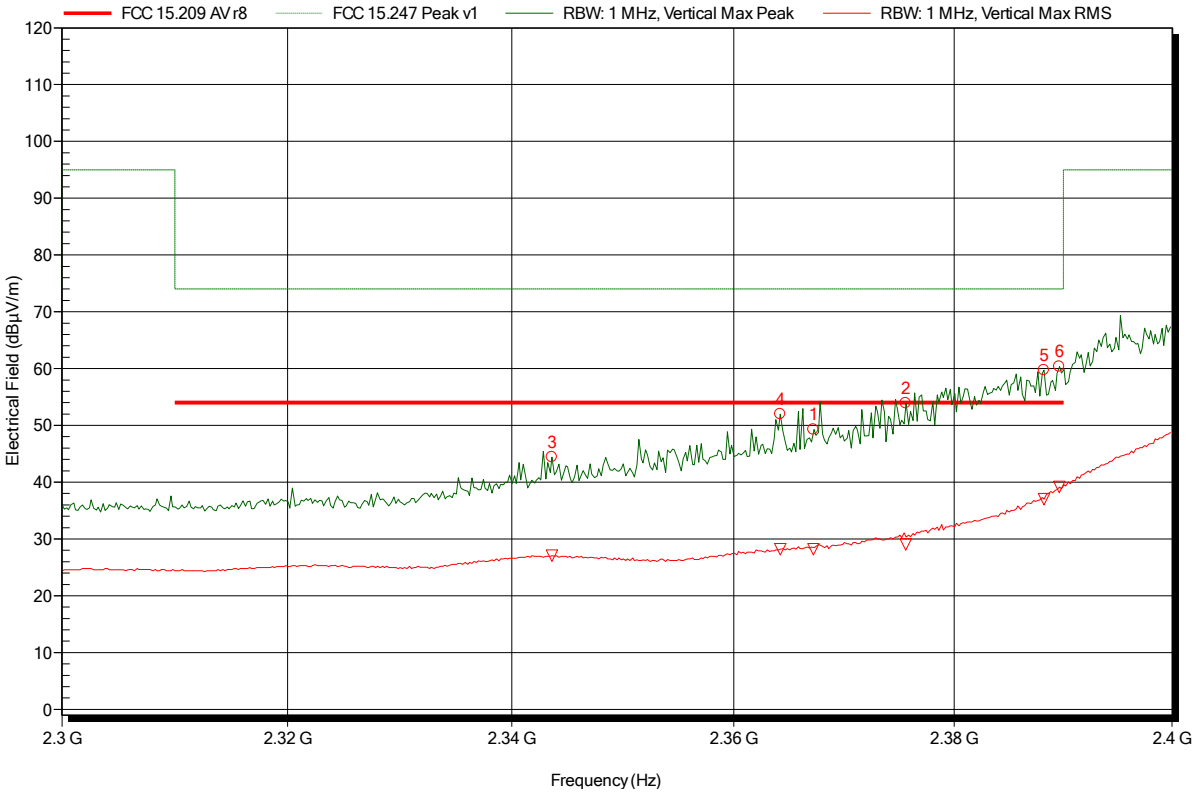

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.344 GHz	44.42 dBµV/m	74 dBµV/m	-29.58 dB	Pass
2.364 GHz	52 dBµV/m	74 dBµV/m	-22 dB	Pass
2.367 GHz	49.27 dBµV/m	74 dBµV/m	-24.73 dB	Pass
2.376 GHz	53.93 dBµV/m	74 dBµV/m	-20.07 dB	Pass
2.388 GHz	59.71 dBµV/m	74 dBµV/m	-14.29 dB	Pass
2.39 GHz	60.33 dBµV/m	74 dBµV/m	-13.67 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.344 GHz	27.07 dBµV/m	54 dBµV/m	-26.93 dB	Pass
2.364 GHz	28.18 dBµV/m	54 dBµV/m	-25.82 dB	Pass
2.367 GHz	28.2 dBµV/m	54 dBµV/m	-25.8 dB	Pass
2.376 GHz	29.06 dBµV/m	54 dBµV/m	-24.94 dB	Pass
2.388 GHz	36.99 dBµV/m	54 dBµV/m	-17.01 dB	Pass
2.39 GHz	39.16 dBµV/m	54 dBµV/m	-14.84 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; higher band edge

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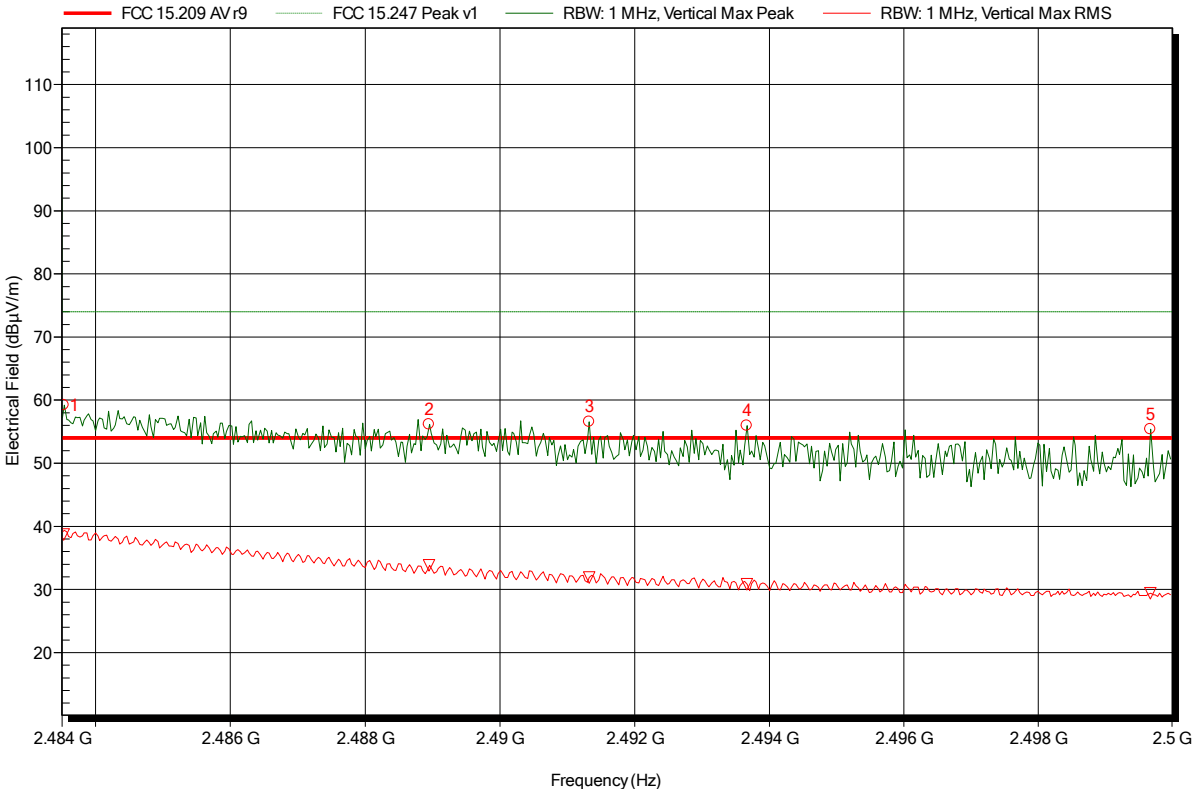

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	59.2 dBµV/m	74 dBµV/m	-14.8 dB	Pass
2.489 GHz	56.14 dBµV/m	74 dBµV/m	-17.86 dB	Pass
2.491 GHz	56.58 dBµV/m	74 dBµV/m	-17.42 dB	Pass
2.494 GHz	55.97 dBµV/m	74 dBµV/m	-18.03 dB	Pass
2.5 GHz	55.39 dBµV/m	74 dBµV/m	-18.61 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.484 GHz	38.71 dBµV/m	54 dBµV/m	-15.29 dB	Pass
2.489 GHz	33.81 dBµV/m	54 dBµV/m	-20.19 dB	Pass
2.491 GHz	31.91 dBµV/m	54 dBµV/m	-22.09 dB	Pass
2.494 GHz	30.83 dBµV/m	54 dBµV/m	-23.17 dB	Pass
2.5 GHz	29.39 dBµV/m	54 dBµV/m	-24.61 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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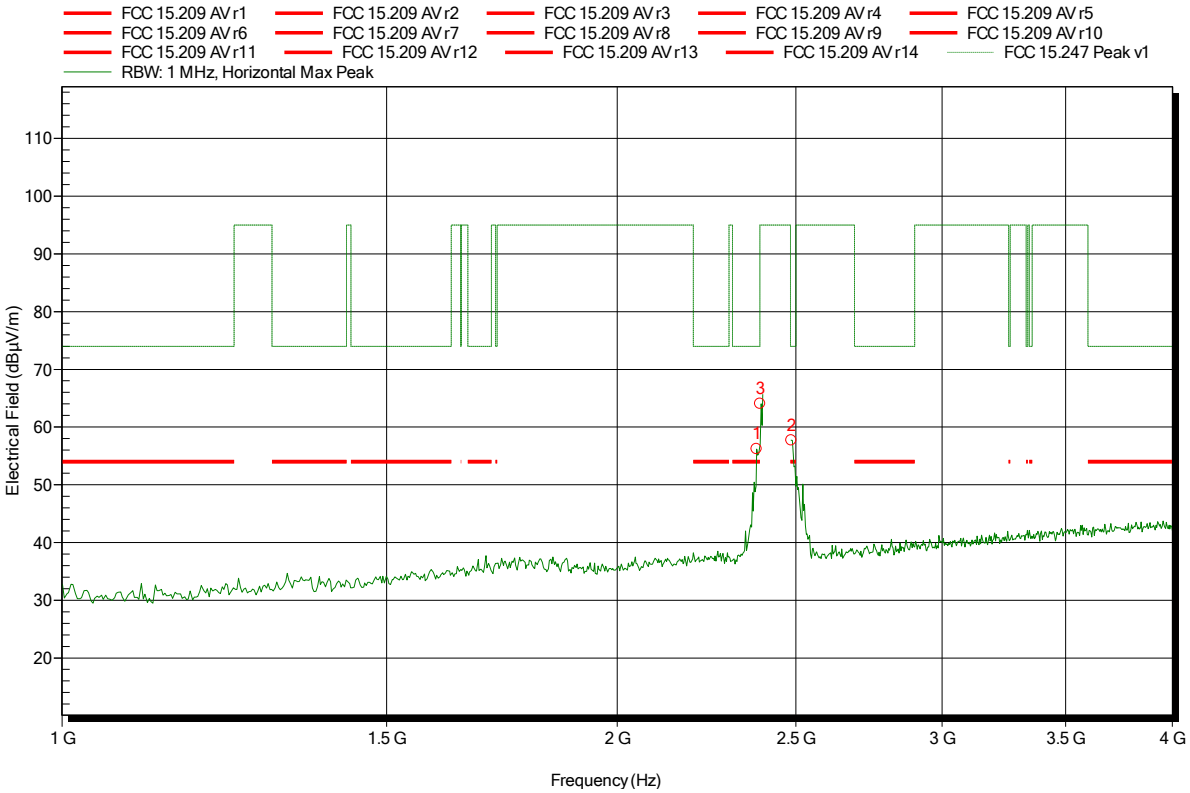

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.38 GHz	56.2 dBµV/m	74 dBµV/m	-17.8 dB	Pass
2.392 GHz	64.01 dBµV/m	95 dBµV/m	-30.99 dB	Pass
2.487 GHz	57.67 dBµV/m	74 dBµV/m	-16.33 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; higher band edge

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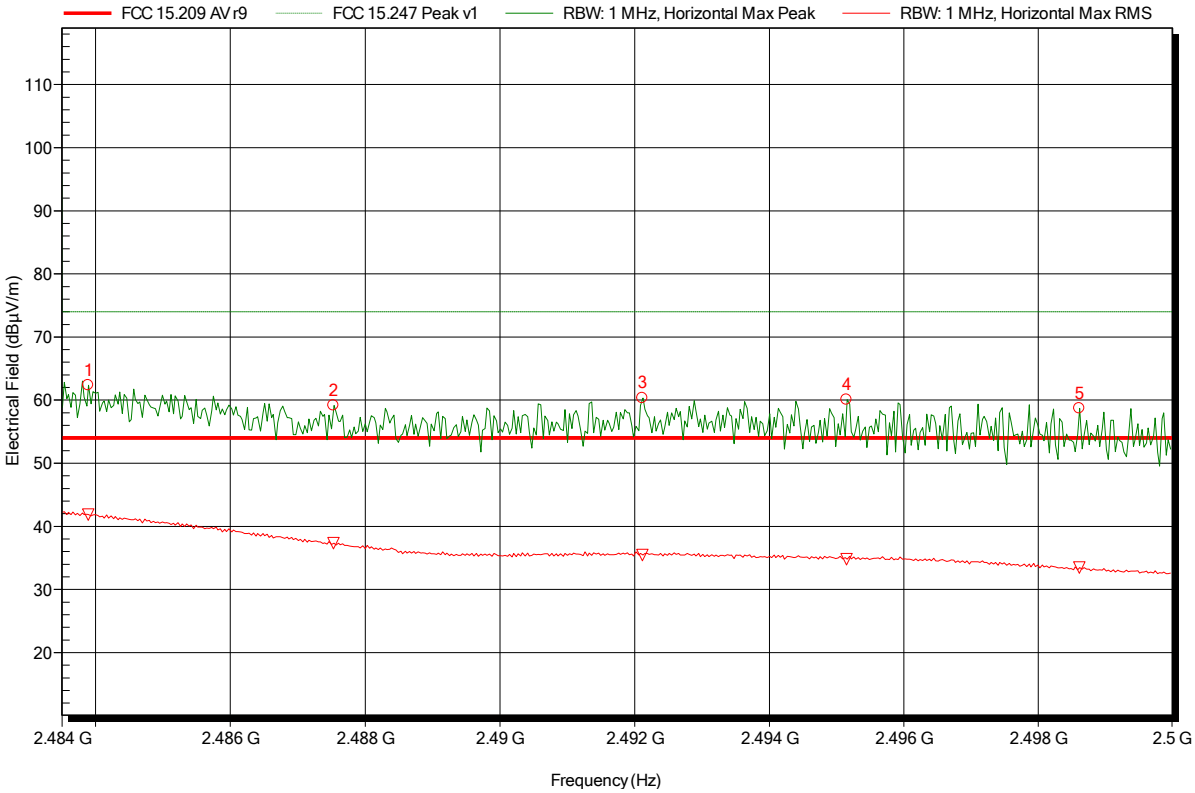

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	62.37 dBµV/m	74 dBµV/m	-11.63 dB	Pass
2.488 GHz	59.18 dBµV/m	74 dBµV/m	-14.82 dB	Pass
2.492 GHz	60.33 dBµV/m	74 dBµV/m	-13.67 dB	Pass
2.495 GHz	60.07 dBµV/m	74 dBµV/m	-13.93 dB	Pass
2.499 GHz	58.71 dBµV/m	74 dBµV/m	-15.29 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.484 GHz	41.84 dBµV/m	54 dBµV/m	-12.16 dB	Pass
2.488 GHz	37.35 dBµV/m	54 dBµV/m	-16.65 dB	Pass
2.492 GHz	35.43 dBµV/m	54 dBµV/m	-18.57 dB	Pass
2.495 GHz	34.8 dBµV/m	54 dBµV/m	-19.2 dB	Pass
2.499 GHz	33.49 dBµV/m	54 dBµV/m	-20.51 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower band edge

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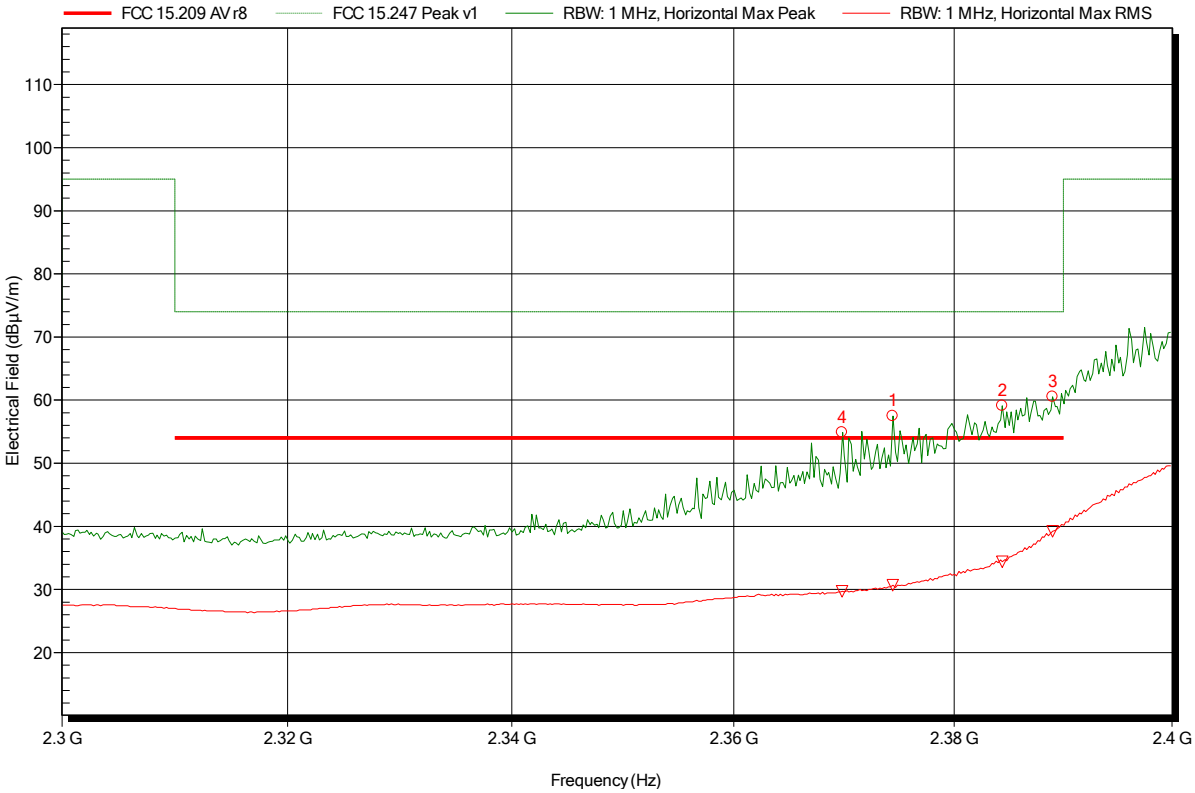

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.37 GHz	54.91 dBµV/m	74 dBµV/m	-19.09 dB	Pass
2.374 GHz	57.48 dBµV/m	74 dBµV/m	-16.52 dB	Pass
2.384 GHz	59.1 dBµV/m	74 dBµV/m	-14.9 dB	Pass
2.389 GHz	60.52 dBµV/m	74 dBµV/m	-13.48 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.37 GHz	29.69 dBµV/m	54 dBµV/m	-24.31 dB	Pass
2.374 GHz	30.69 dBµV/m	54 dBµV/m	-23.31 dB	Pass
2.384 GHz	34.41 dBµV/m	54 dBµV/m	-19.59 dB	Pass
2.389 GHz	39.22 dBµV/m	54 dBµV/m	-14.78 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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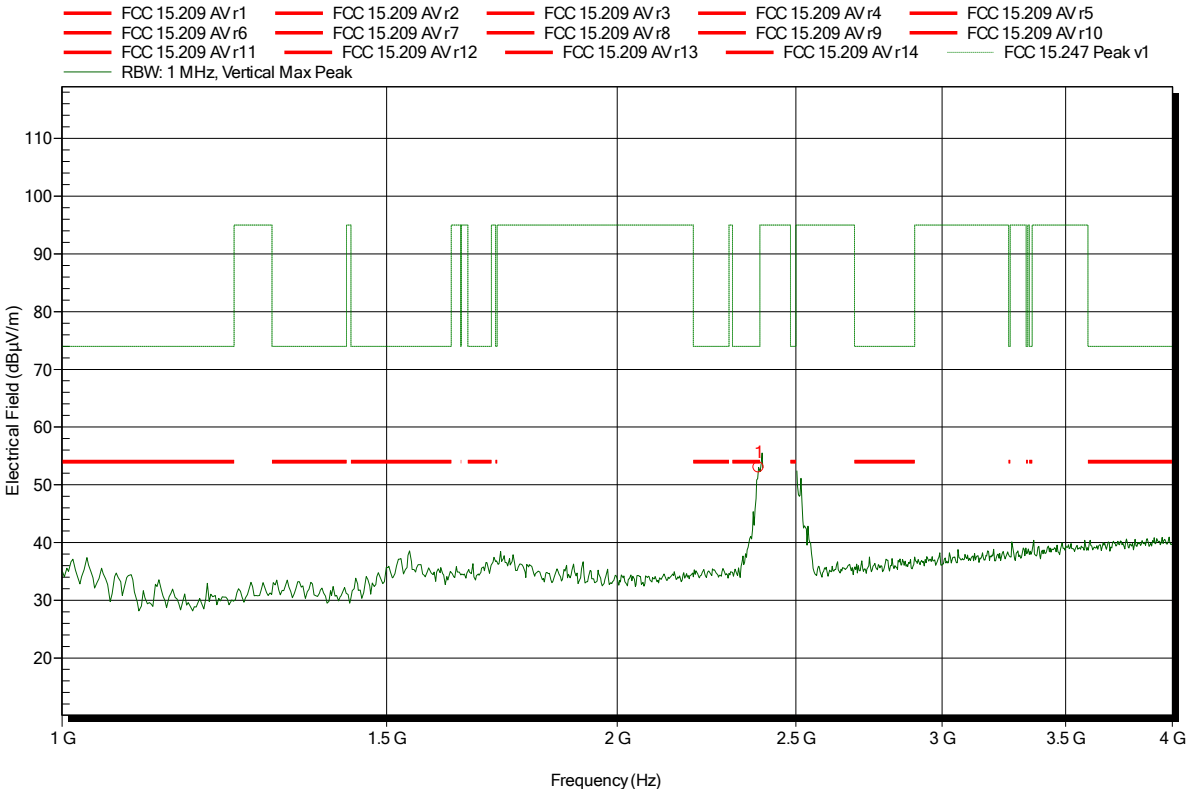

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.386 GHz	53.03 dBµV/m	74 dBµV/m	-20.97 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; higher band edge

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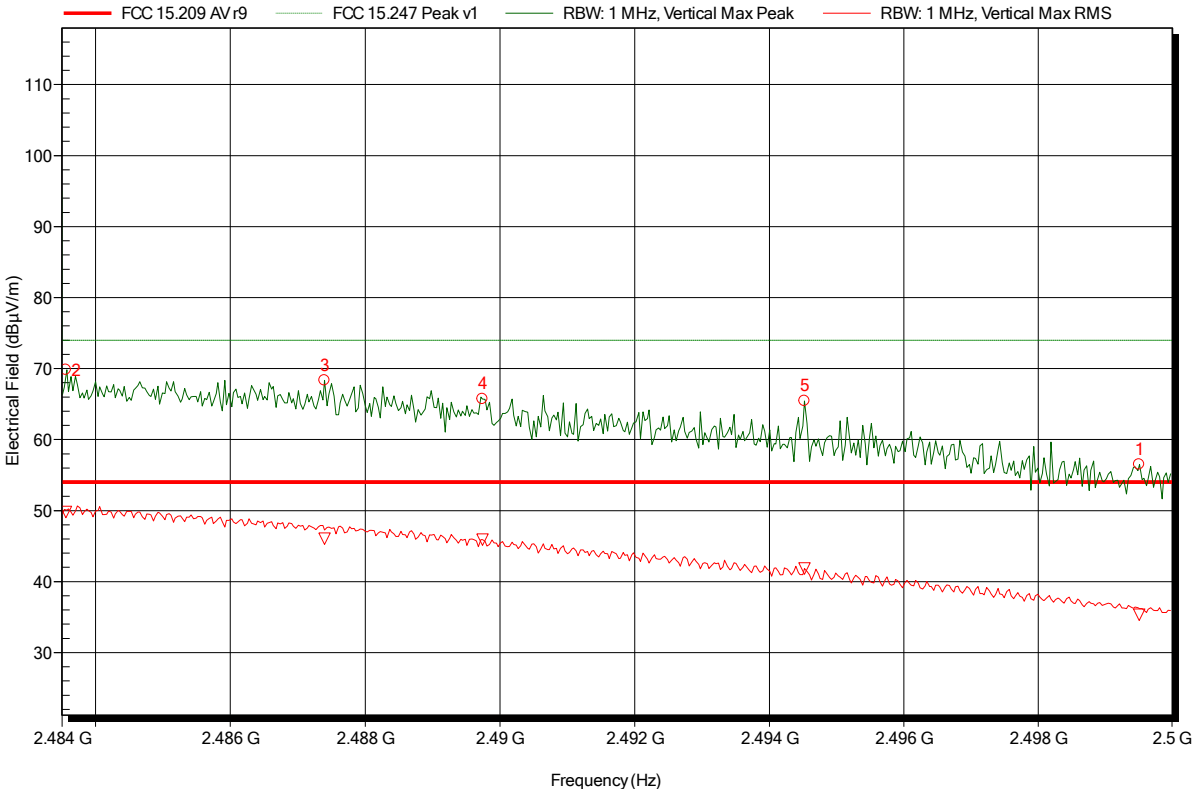

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	69.81 dBµV/m	74 dBµV/m	-4.19 dB	Pass
2.487 GHz	68.36 dBµV/m	74 dBµV/m	-5.64 dB	Pass
2.49 GHz	65.7 dBµV/m	74 dBµV/m	-8.3 dB	Pass
2.495 GHz	65.44 dBµV/m	74 dBµV/m	-8.56 dB	Pass
2.5 GHz	56.47 dBµV/m	74 dBµV/m	-17.53 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.484 GHz	49.8 dBµV/m	54 dBµV/m	-4.2 dB	Pass
2.487 GHz	46.03 dBµV/m	54 dBµV/m	-7.97 dB	Pass
2.49 GHz	45.9 dBµV/m	54 dBµV/m	-8.1 dB	Pass
2.495 GHz	41.85 dBµV/m	54 dBµV/m	-12.15 dB	Pass
2.5 GHz	35.35 dBµV/m	54 dBµV/m	-18.65 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical

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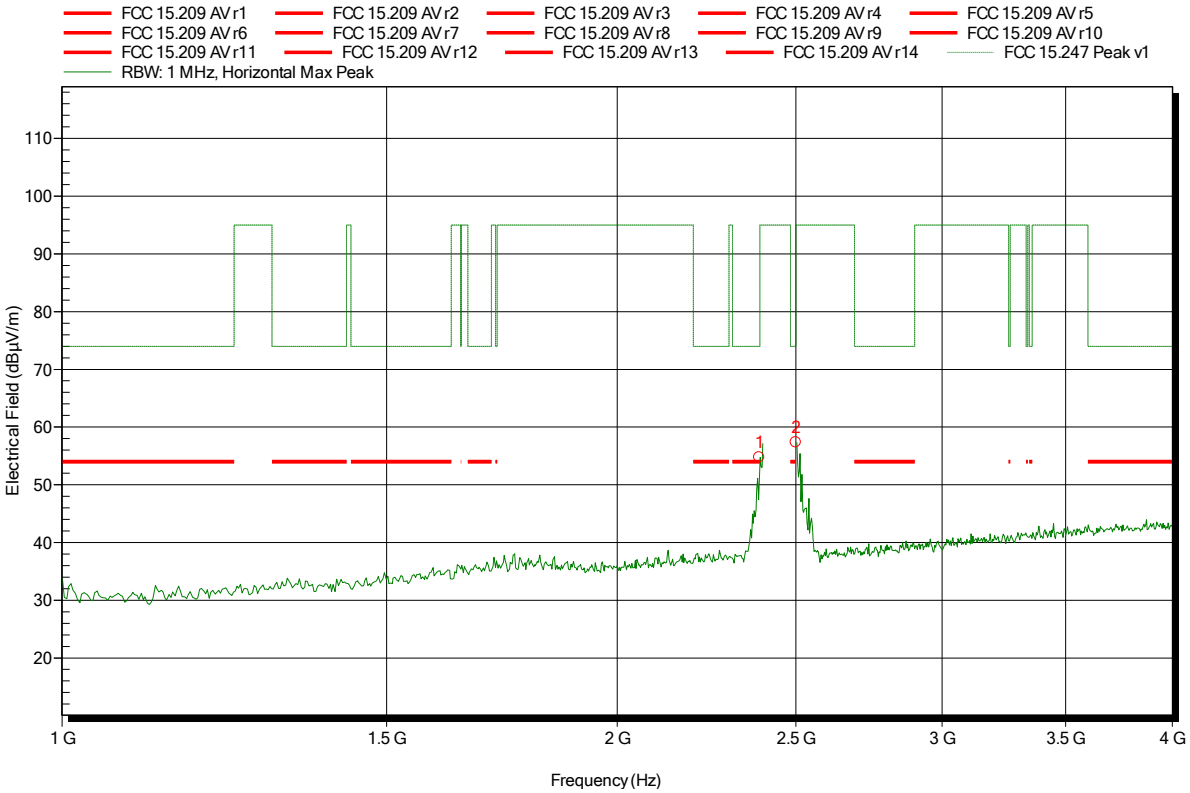

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.389 GHz	54.71 dBµV/m	74 dBµV/m	-19.29 dB	Pass
2.5 GHz	57.36 dBµV/m	74 dBµV/m	-16.64 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; lower band edge

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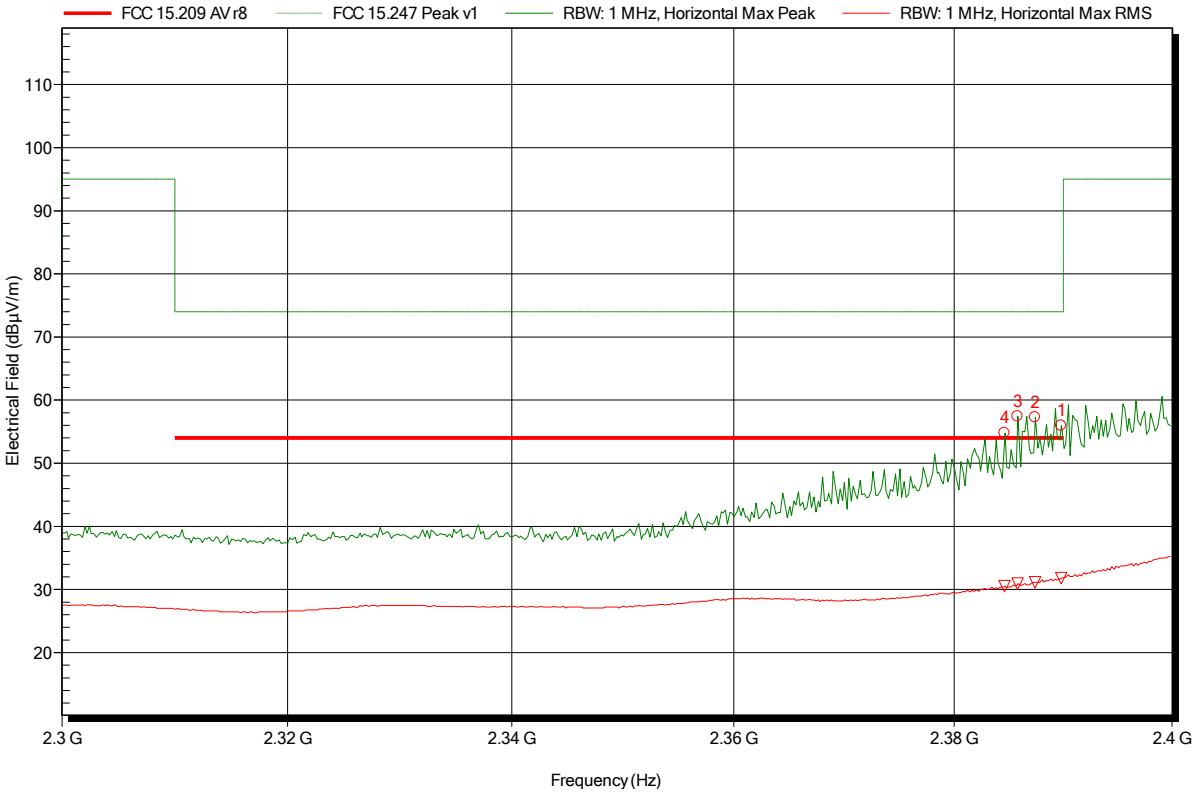

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.385 GHz	54.81 dBµV/m	74 dBµV/m	-19.19 dB	Pass
2.386 GHz	57.43 dBµV/m	74 dBµV/m	-16.57 dB	Pass
2.387 GHz	57.3 dBµV/m	74 dBµV/m	-16.7 dB	Pass
2.39 GHz	55.98 dBµV/m	74 dBµV/m	-18.02 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.385 GHz	30.54 dBµV/m	54 dBµV/m	-23.46 dB	Pass
2.386 GHz	30.91 dBµV/m	54 dBµV/m	-23.09 dB	Pass
2.387 GHz	31.11 dBµV/m	54 dBµV/m	-22.89 dB	Pass
2.39 GHz	31.8 dBµV/m	54 dBµV/m	-22.2 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	TX; IEEE 802.11gn; Ch. 9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-23
Note:	EUT vertical; higher bandedge

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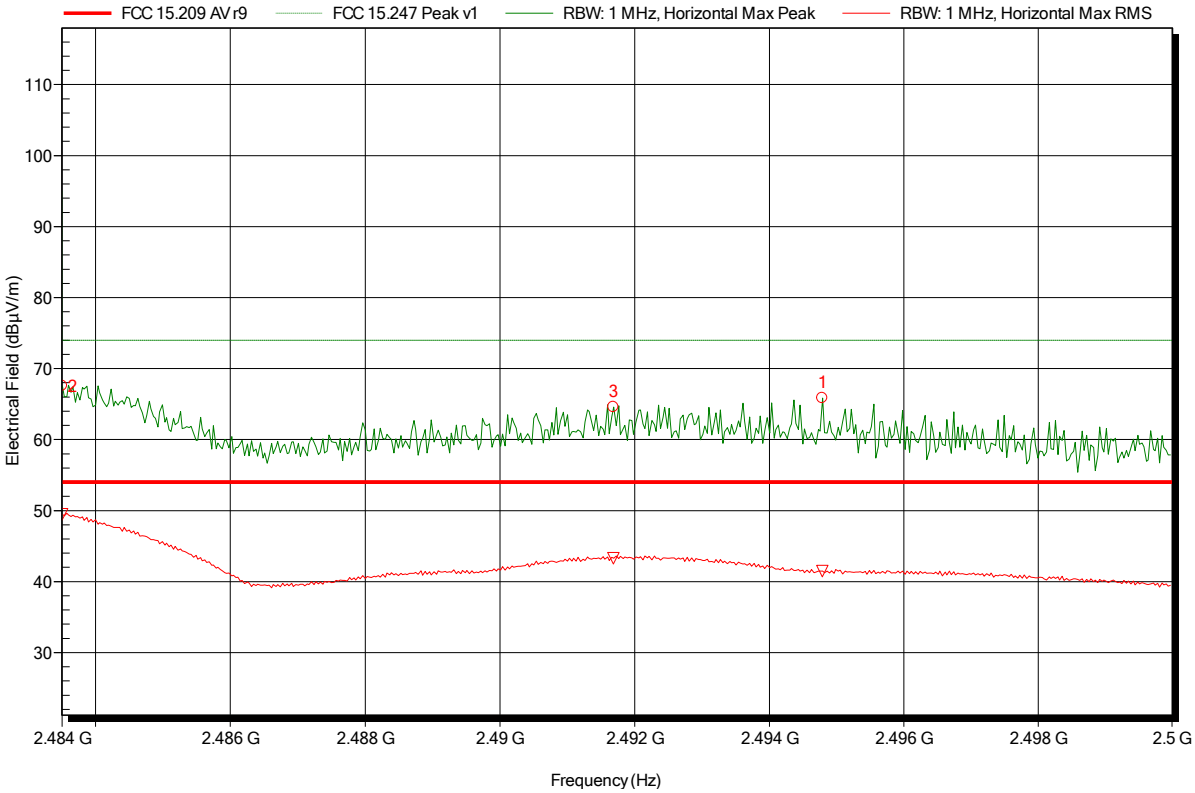

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	67.57 dBµV/m	74 dBµV/m	-6.43 dB	Pass
2.492 GHz	64.59 dBµV/m	74 dBµV/m	-9.41 dB	Pass
2.495 GHz	65.85 dBµV/m	74 dBµV/m	-8.15 dB	Pass

Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.484 GHz	49.48 dBµV/m	54 dBµV/m	-4.52 dB	Pass
2.492 GHz	43.27 dBµV/m	54 dBµV/m	-10.73 dB	Pass
2.495 GHz	41.46 dBµV/m	54 dBµV/m	-12.54 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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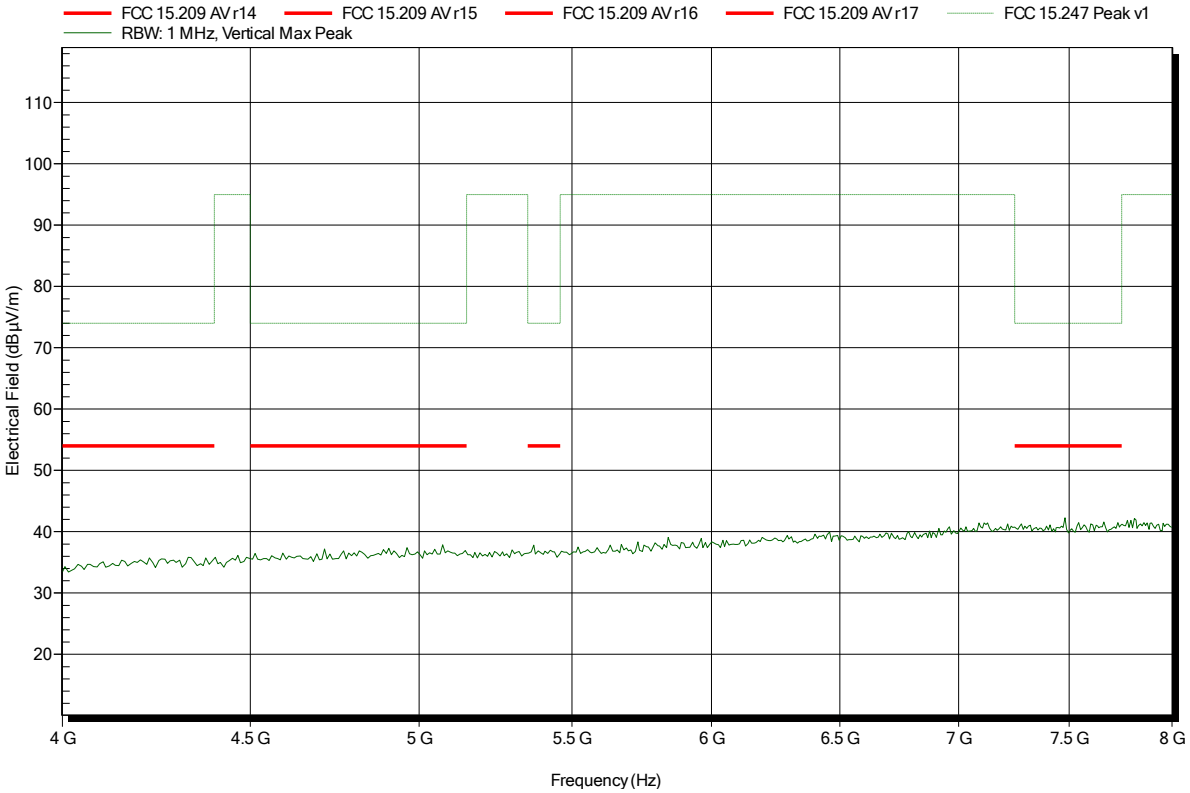

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT horizontal

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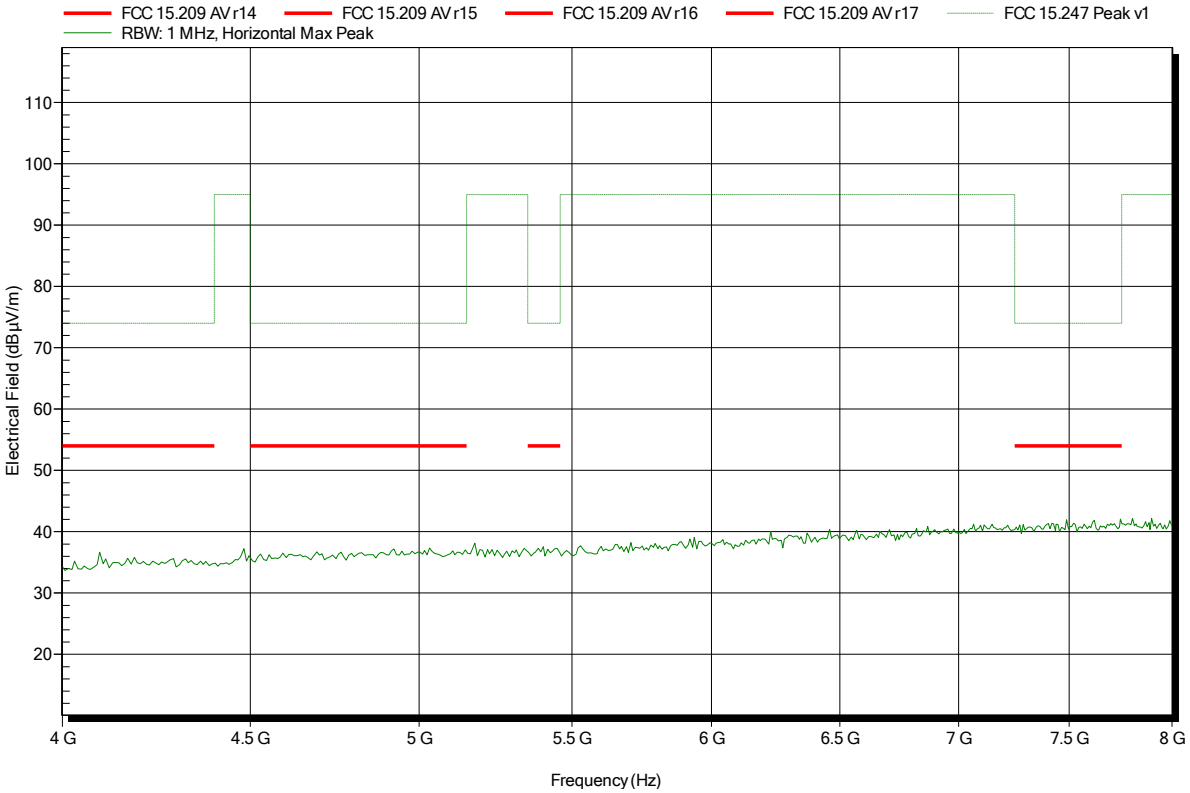

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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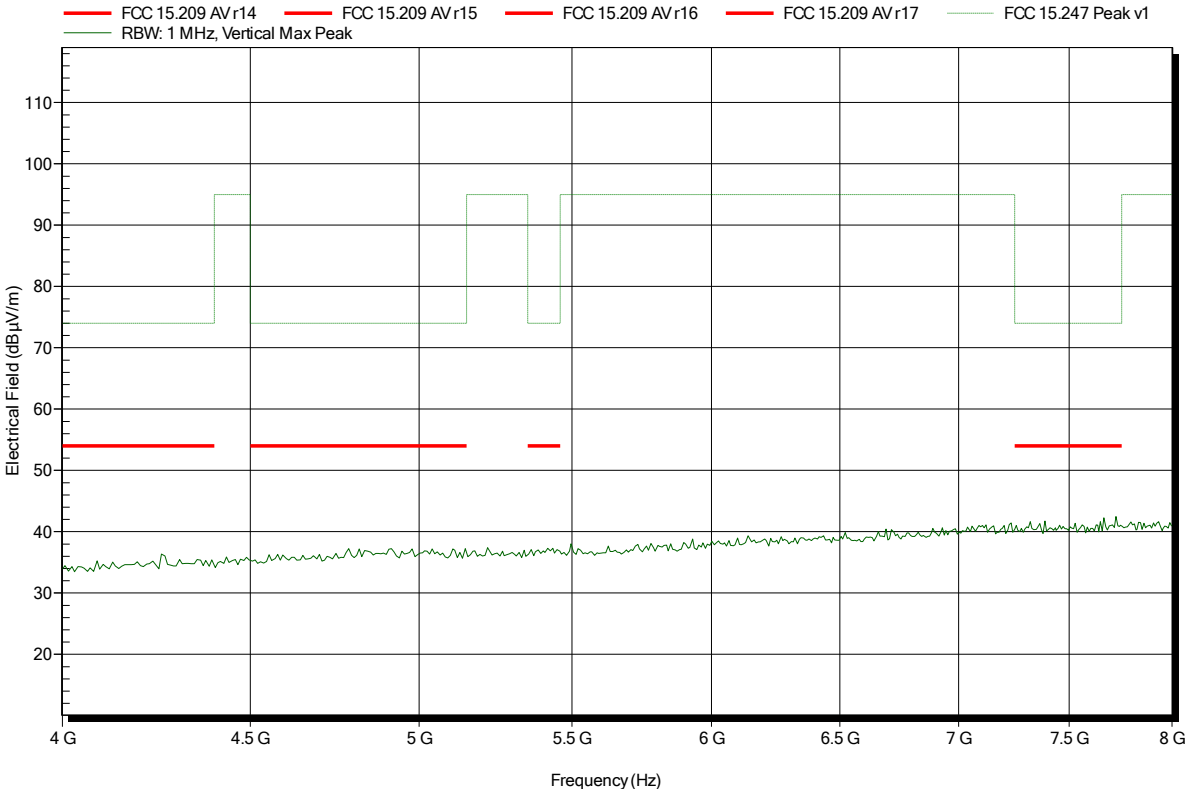

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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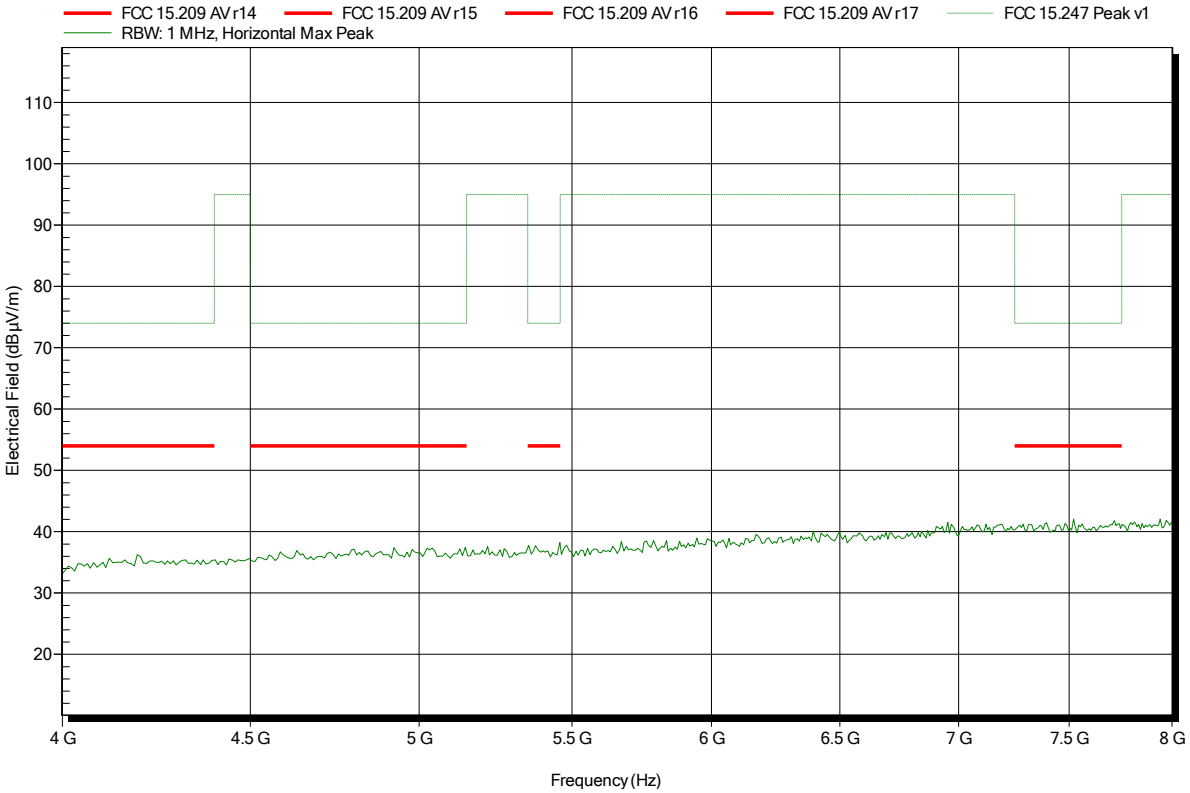

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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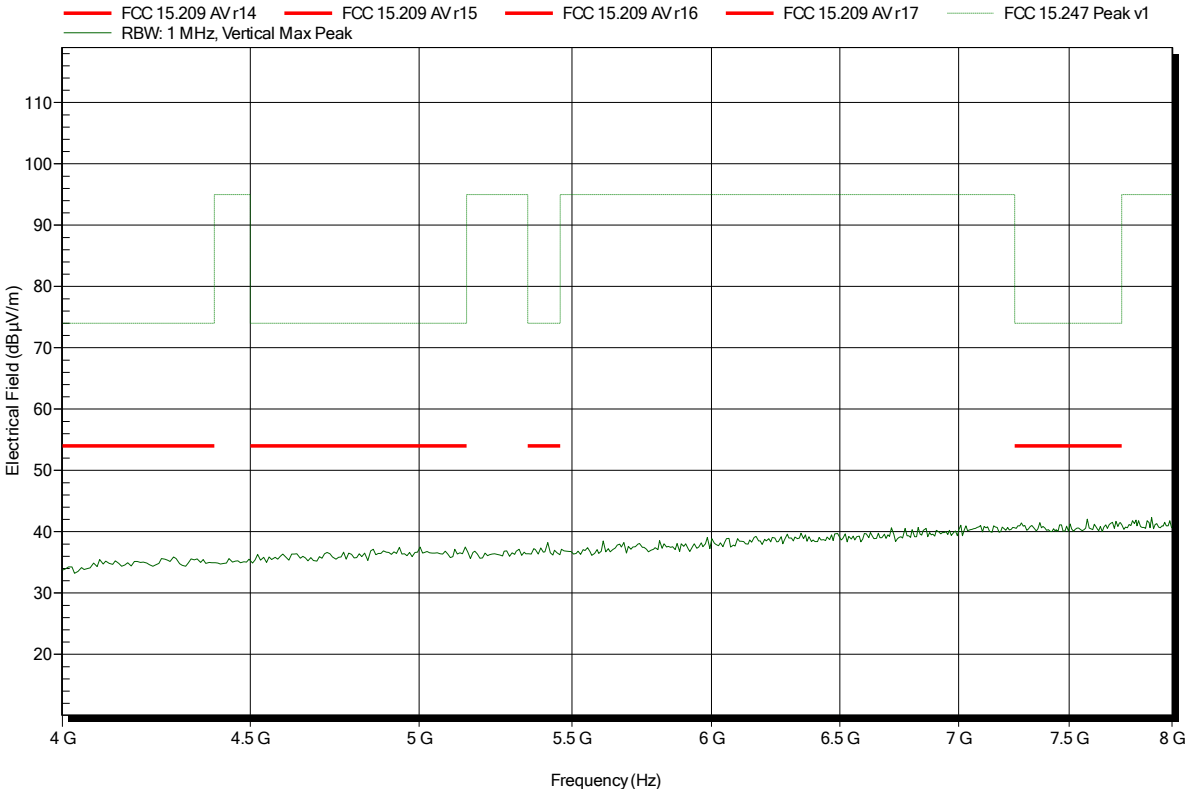

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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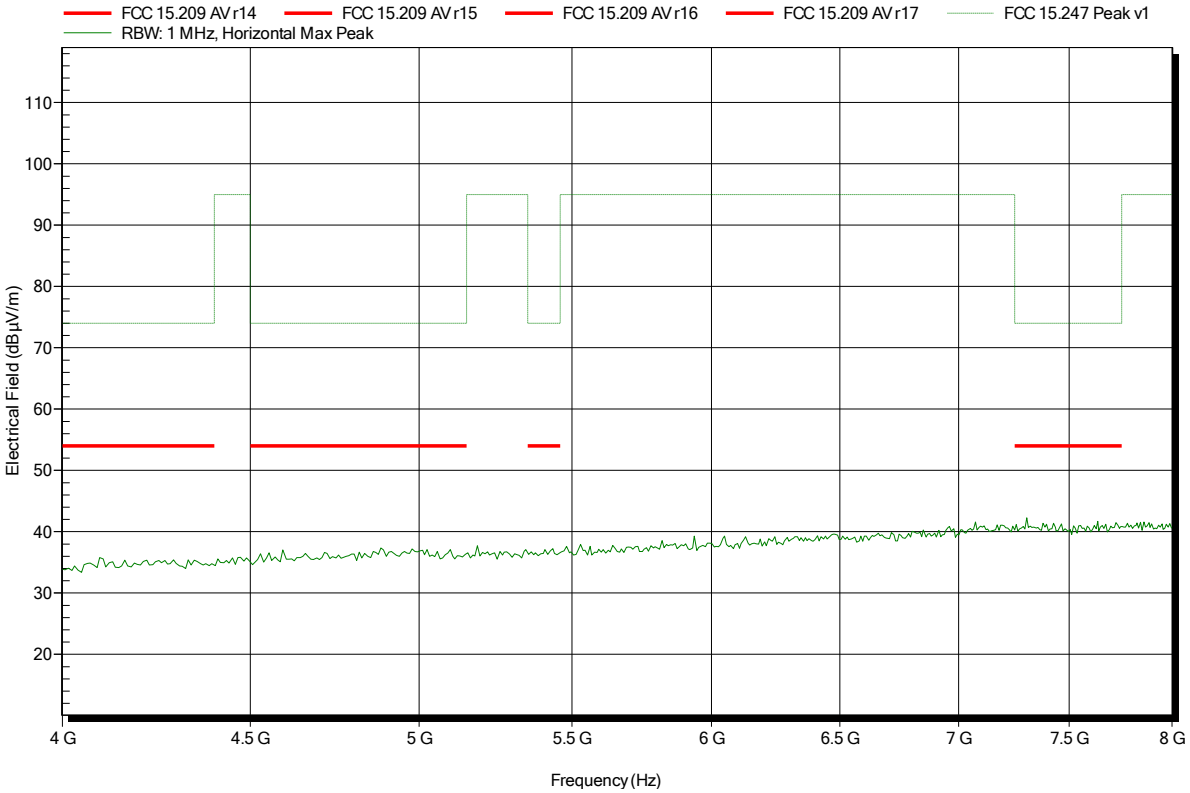

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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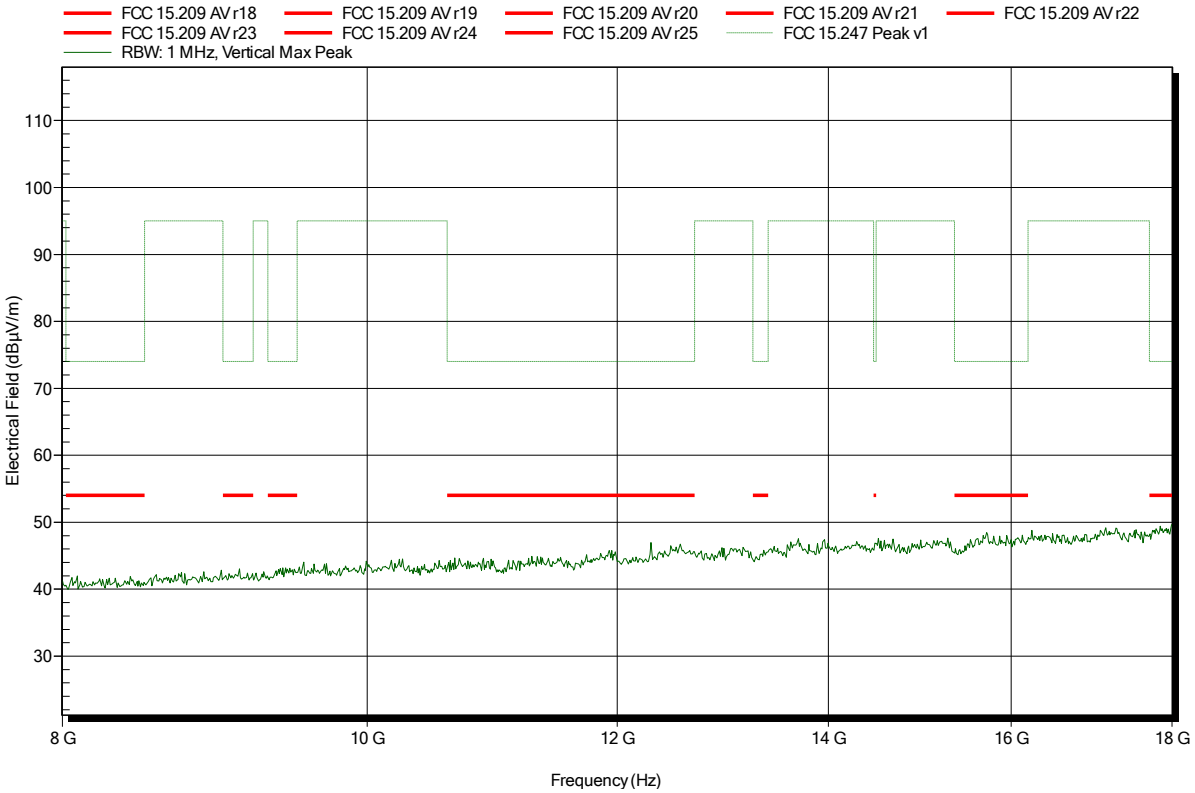

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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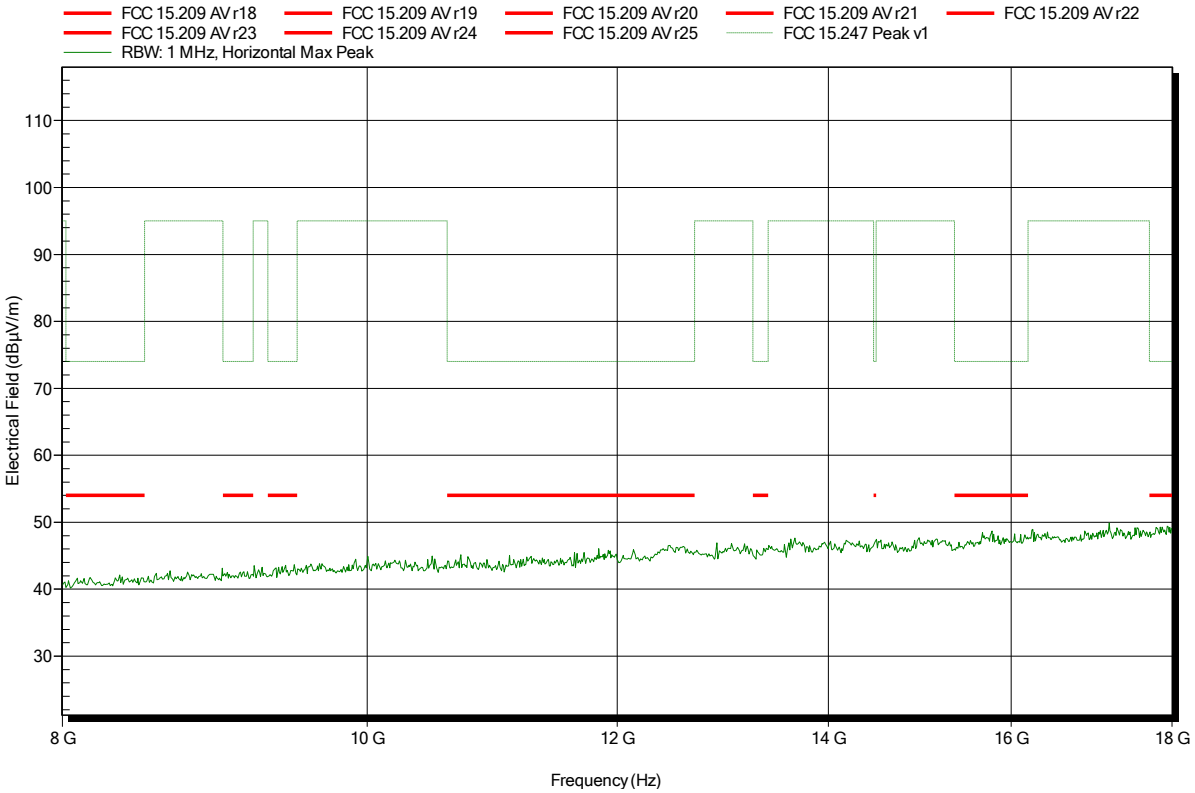

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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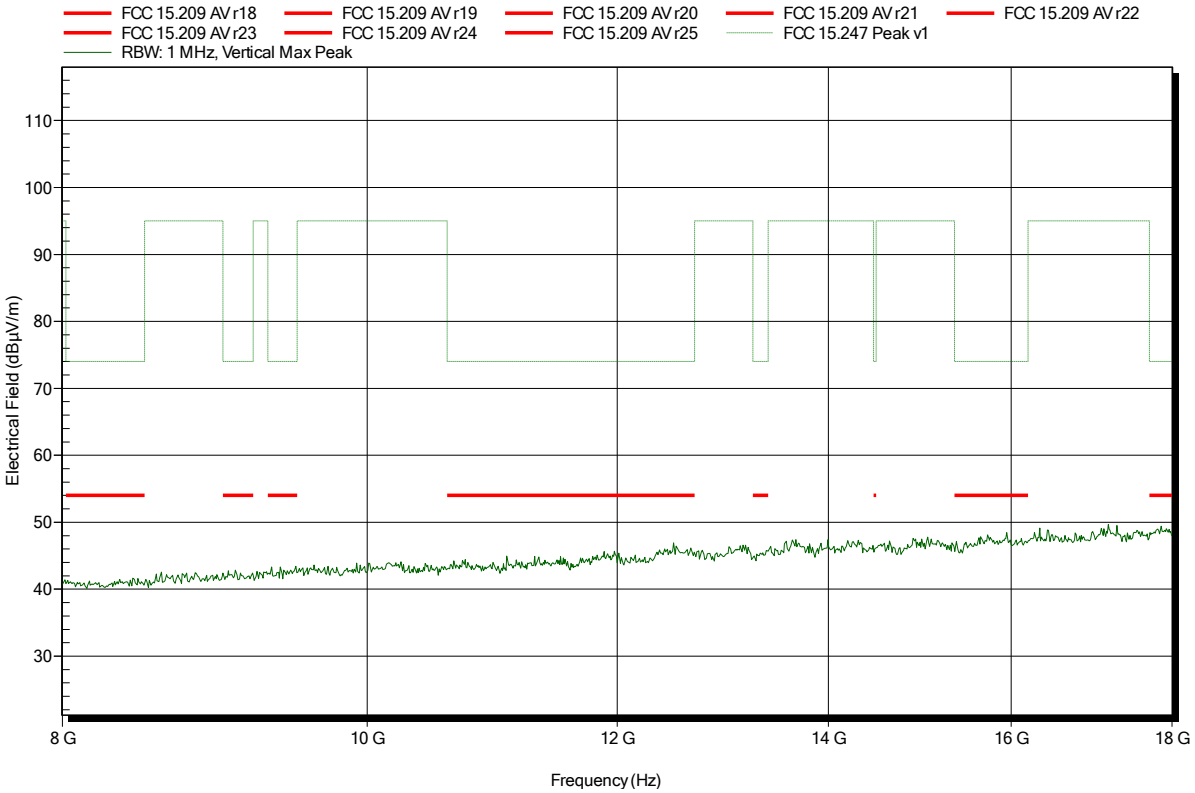

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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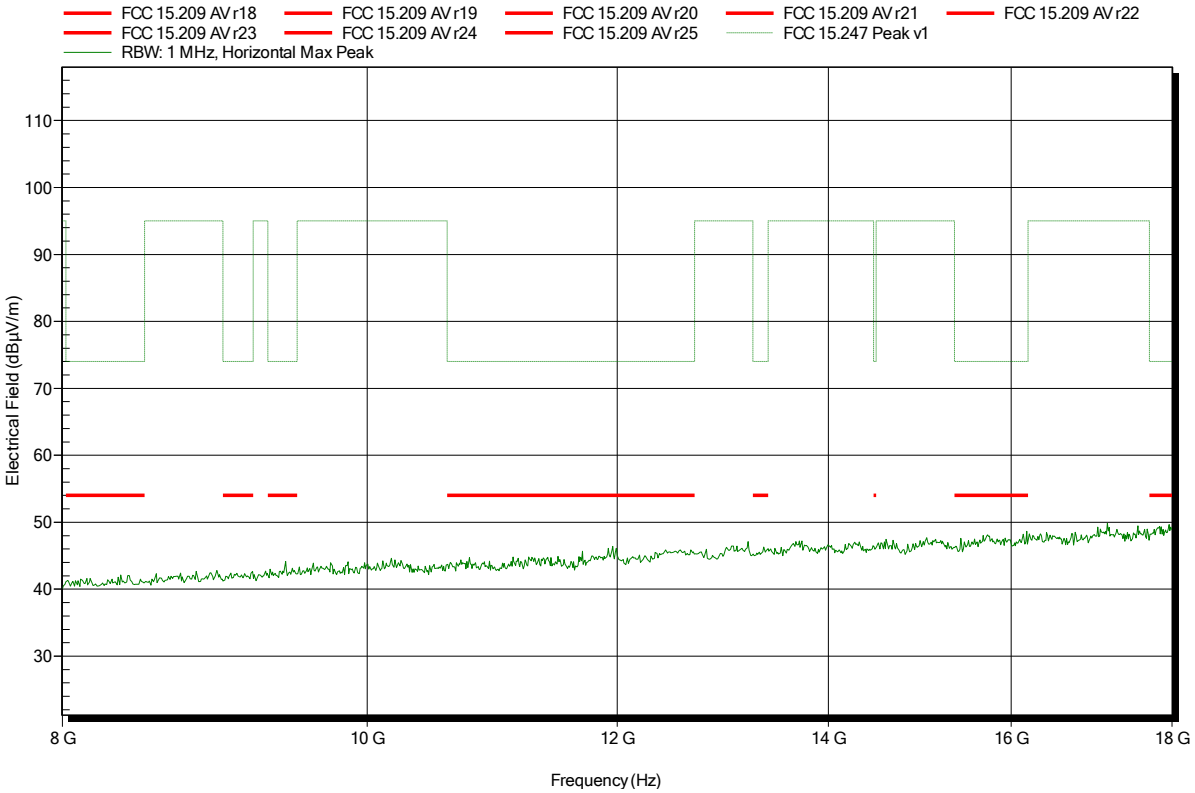

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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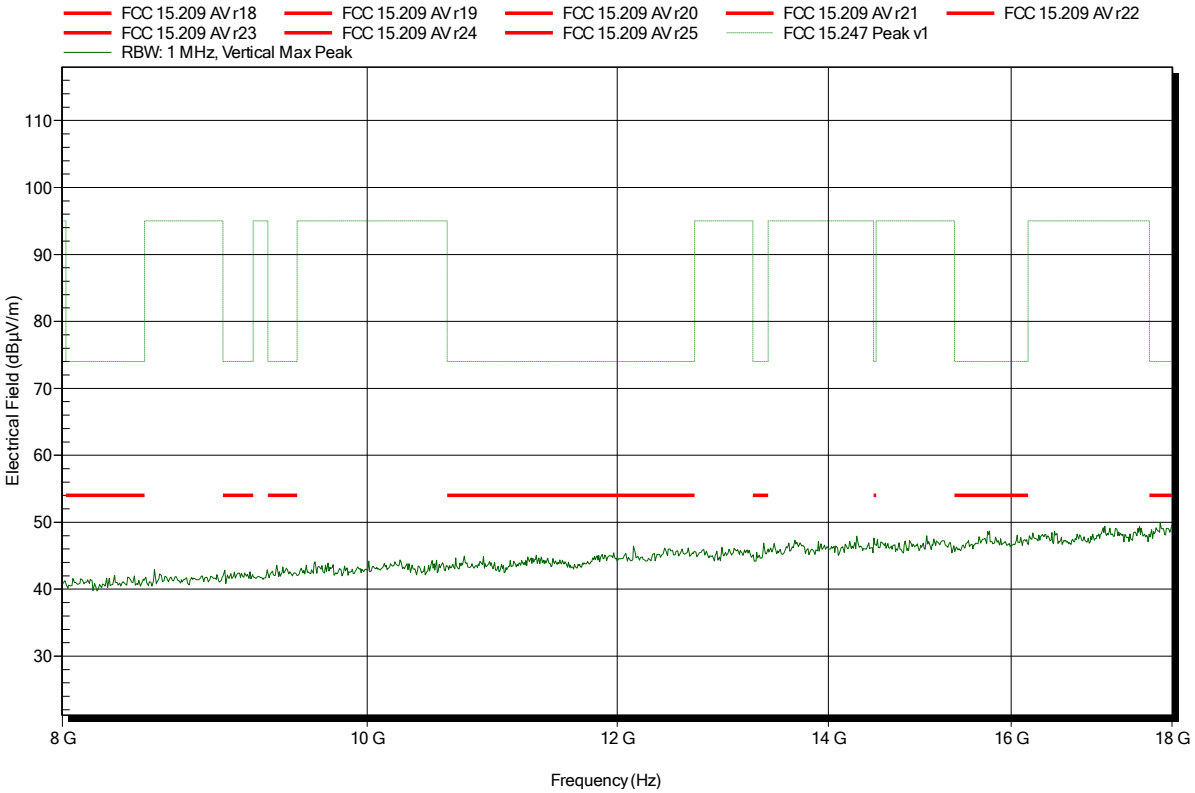

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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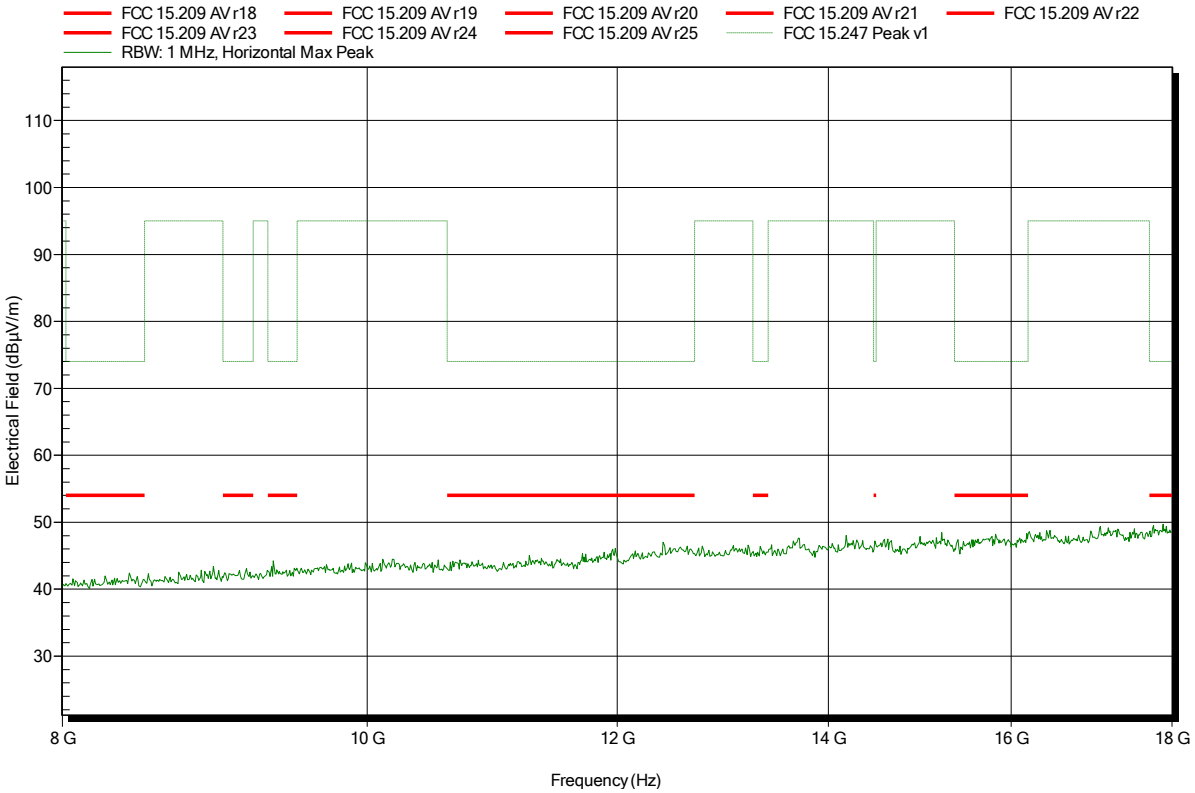

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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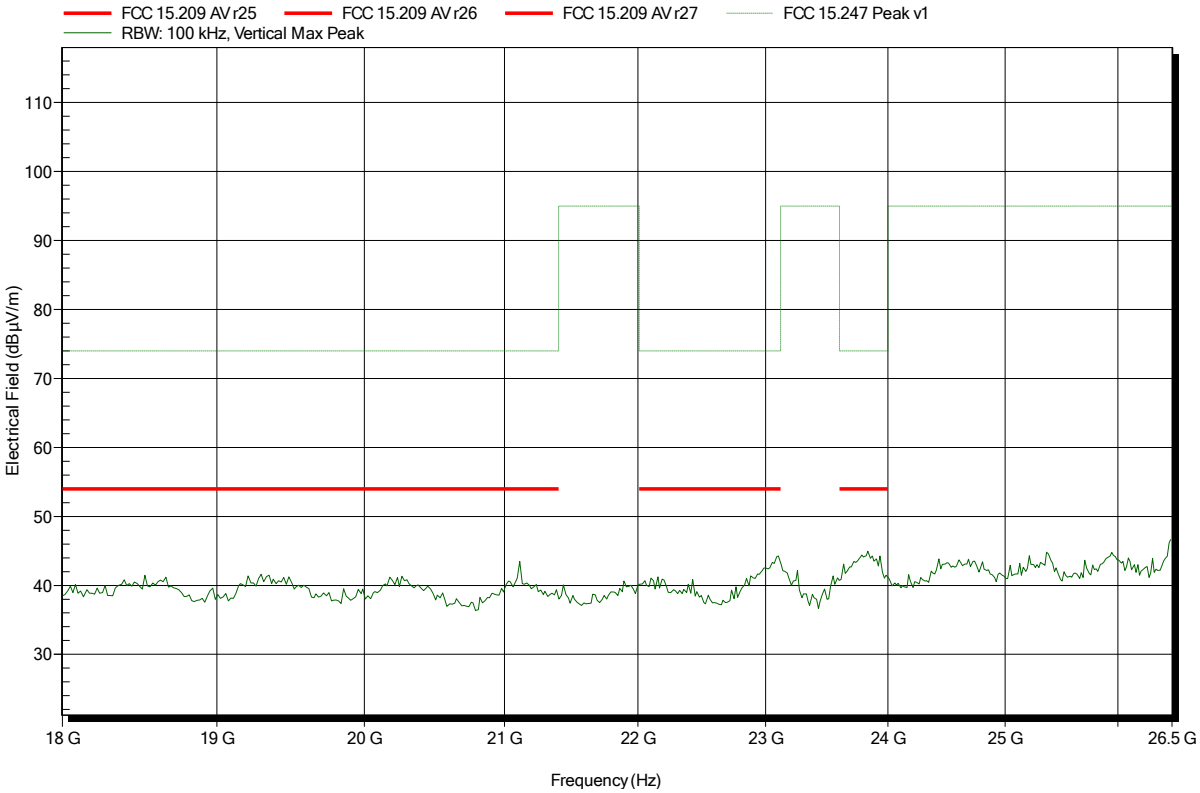

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.3; 2422 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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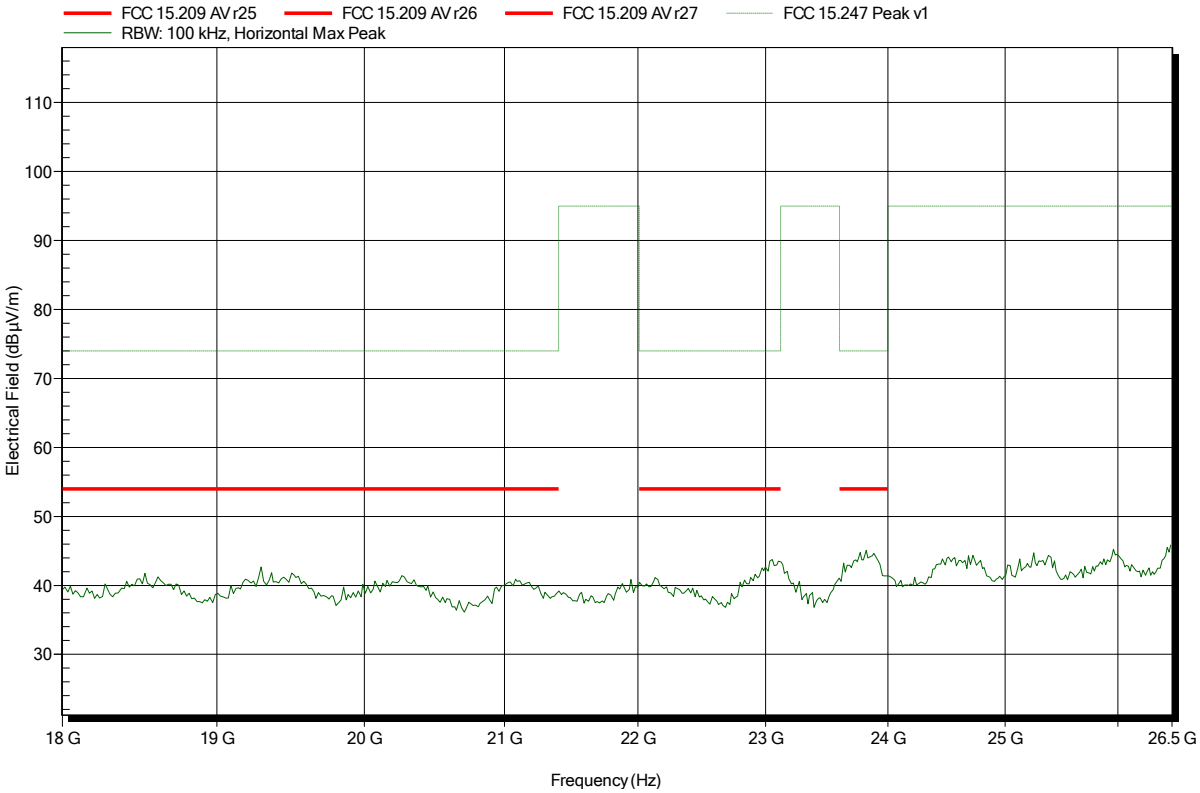

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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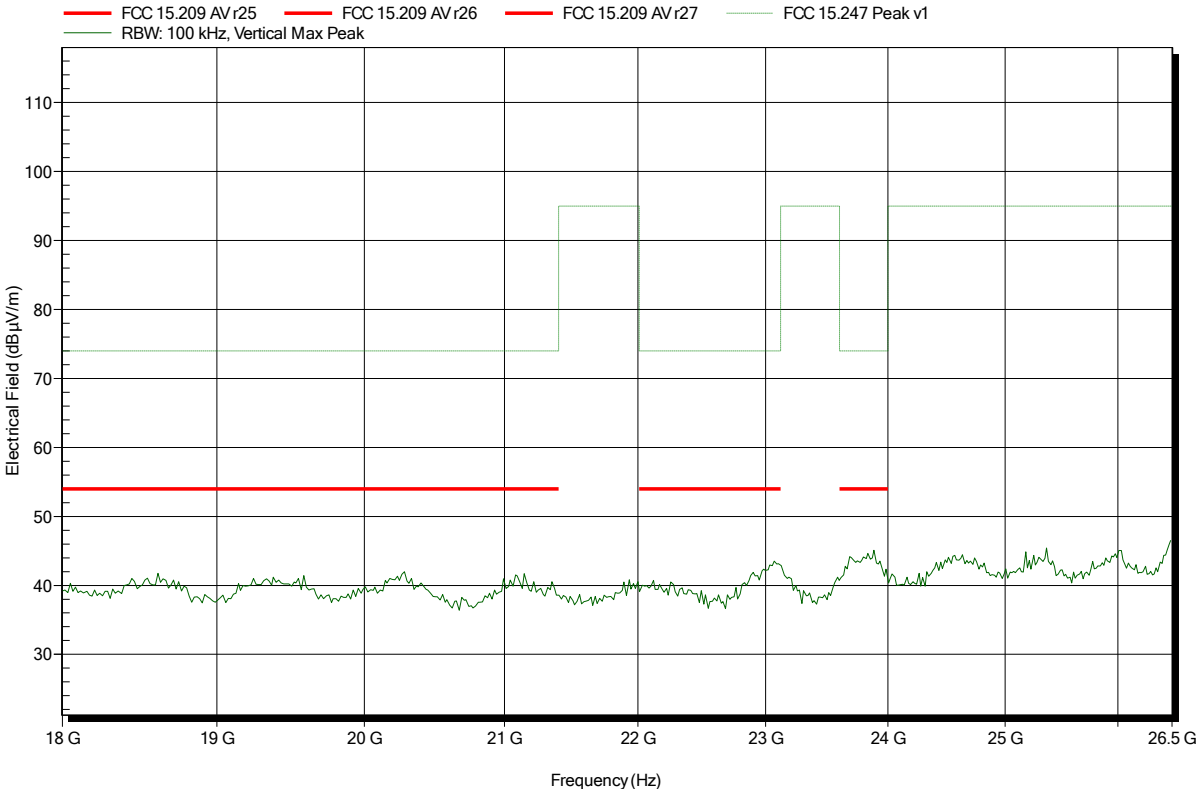

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.6; 2437 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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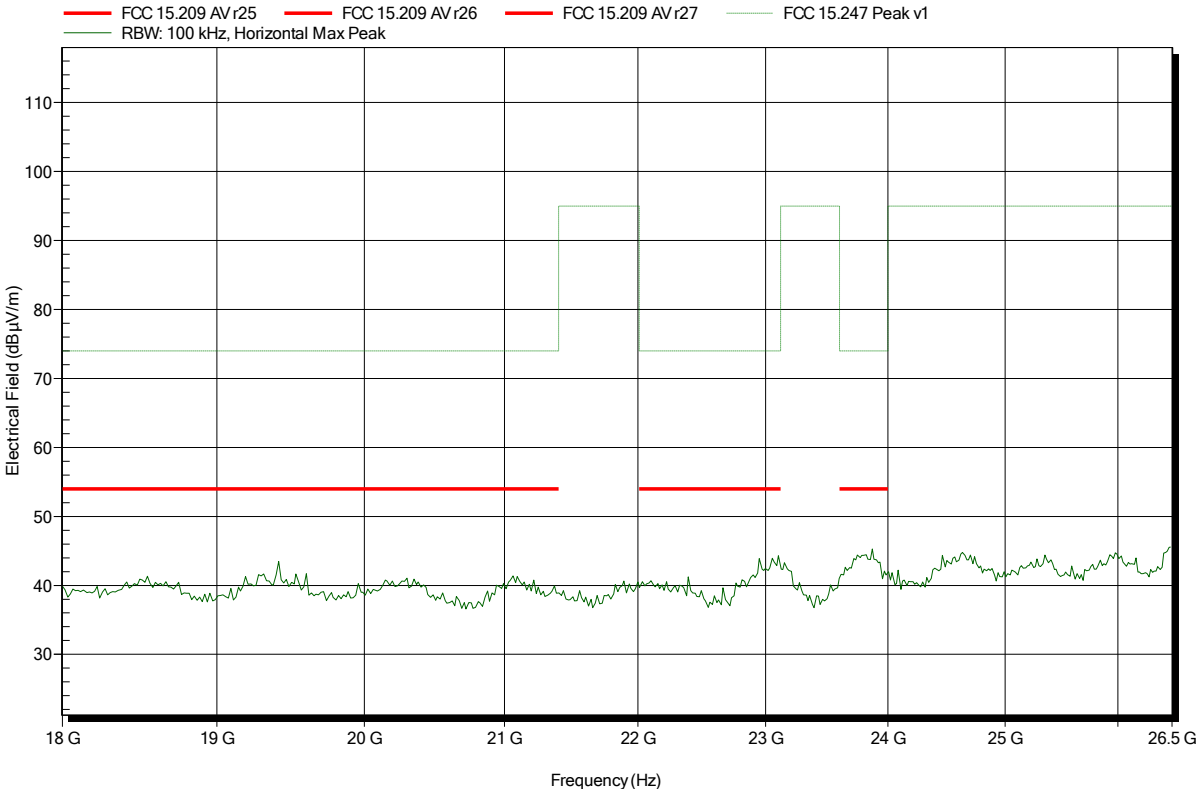

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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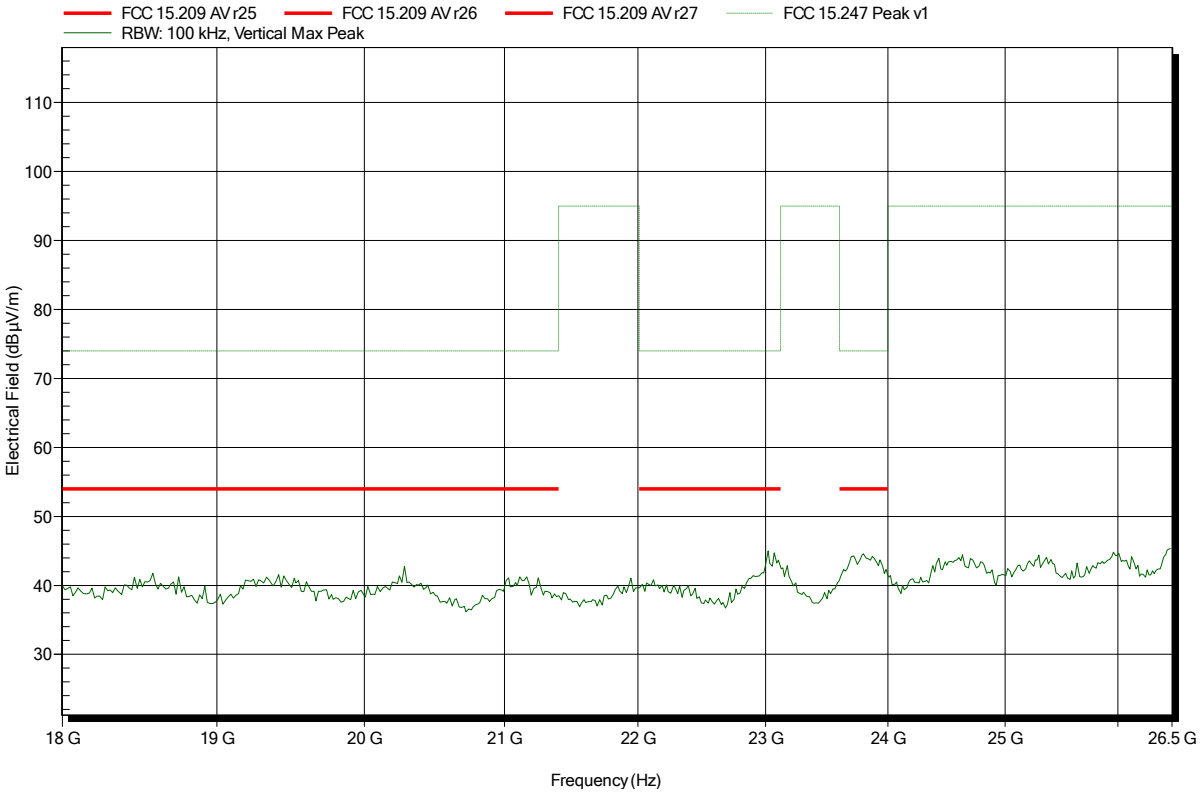

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 24°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	1 m converted to 3m
Mode:	TX; IEEE 802.11gn; Ch.9; 2452 MHz; MCS0; Pmax
Test Date:	2015-02-20
Note:	EUT vertical

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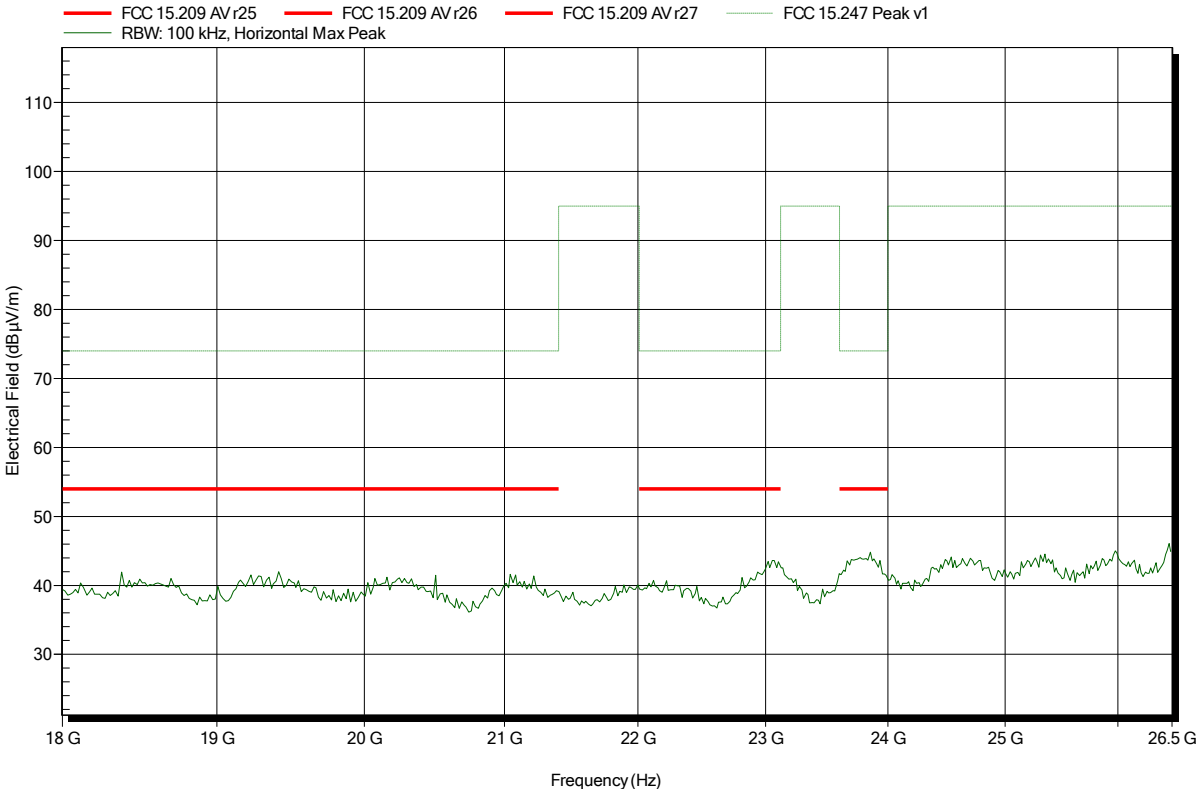

ANNEX B Receiver radiated spurious emissions

Spurious emissions according to IC RSS-Gen

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; IEEE 802.11b,g,n; Ch.6; 2437 MHz
Test Date:	2015-02-23
Note:	EUT vertical

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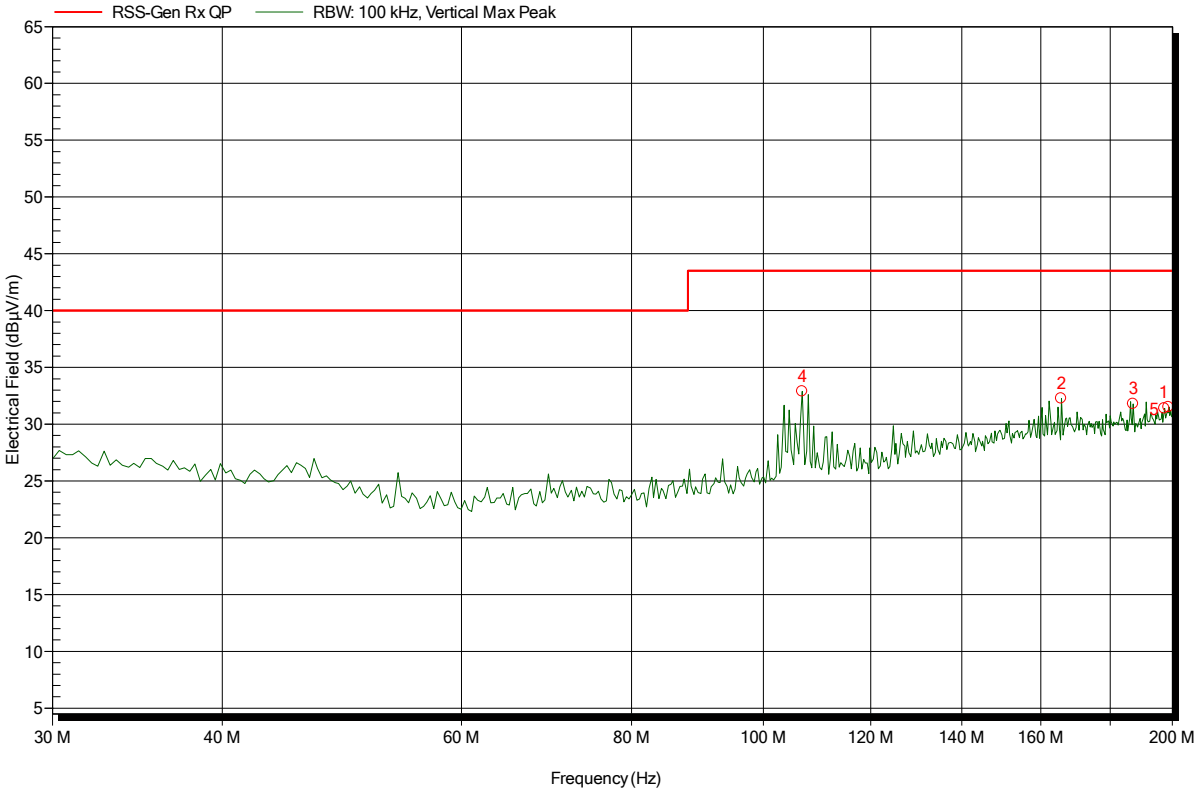

Frequency	Peak	Peak Limit	Peak Difference	Status
106.84 MHz	32.89 dBµV/m	43.5 dBµV/m	-10.61 dB	Pass
165.66 MHz	32.27 dBµV/m	43.5 dBµV/m	-11.23 dB	Pass
187.08 MHz	31.79 dBµV/m	43.5 dBµV/m	-11.71 dB	Pass
197.28 MHz	31.38 dBµV/m	43.5 dBµV/m	-12.12 dB	Pass
198.64 MHz	31.5 dBµV/m	43.5 dBµV/m	-12 dB	Pass

Spurious emissions according to IC RSS-Gen

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; IEEE 802.11b,g,n; Ch.6; 2437 MHz
Test Date:	2015-02-23
Note:	EUT vertical

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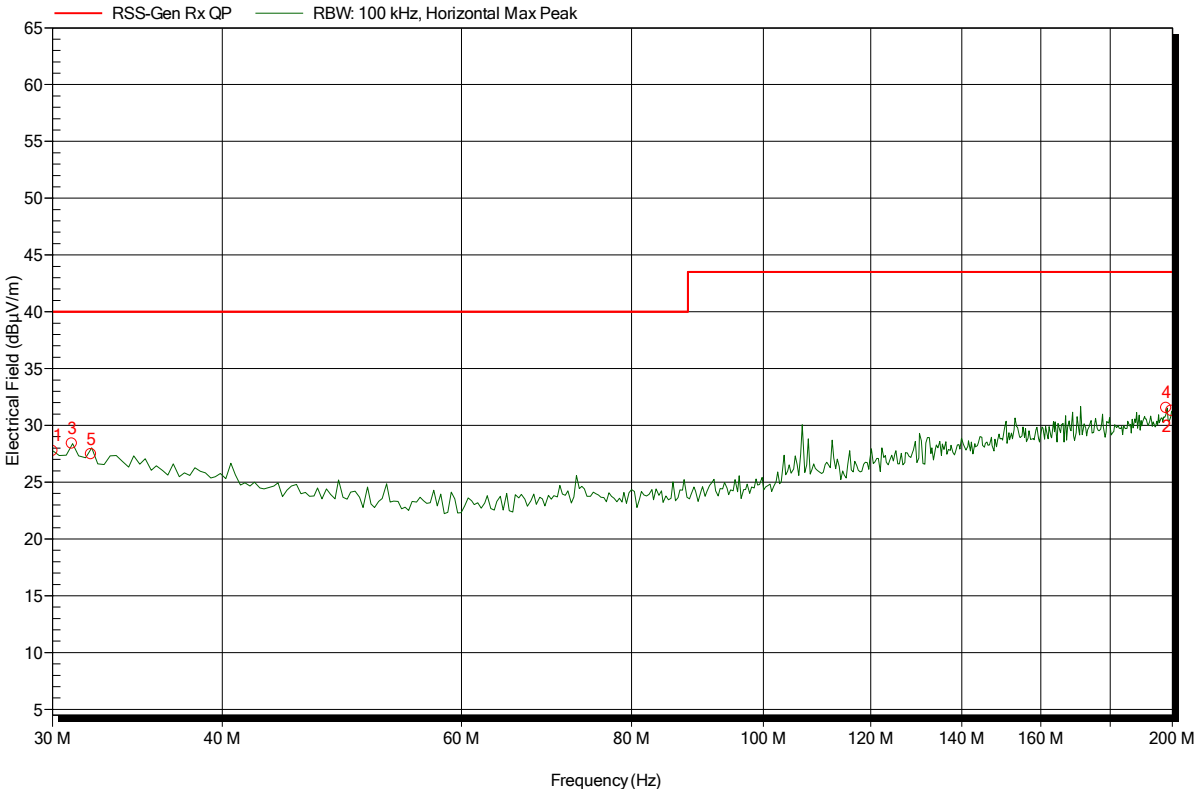

Frequency	Peak	Peak Limit	Peak Difference	Status
30 MHz	27.74 dBµV/m	40 dBµV/m	-12.26 dB	Pass
31.02 MHz	28.38 dBµV/m	40 dBµV/m	-11.62 dB	Pass
32.04 MHz	27.45 dBµV/m	40 dBµV/m	-12.55 dB	Pass
197.96 MHz	31.52 dBµV/m	43.5 dBµV/m	-11.98 dB	Pass
199.66 MHz	31.28 dBµV/m	43.5 dBµV/m	-12.22 dB	Pass

Spurious emissions according to IC RSS-Gen

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; IEEE 802.11b,g,n; Ch.6; 2437 MHz
Test Date:	2015-02-23
Note:	EUT vertical

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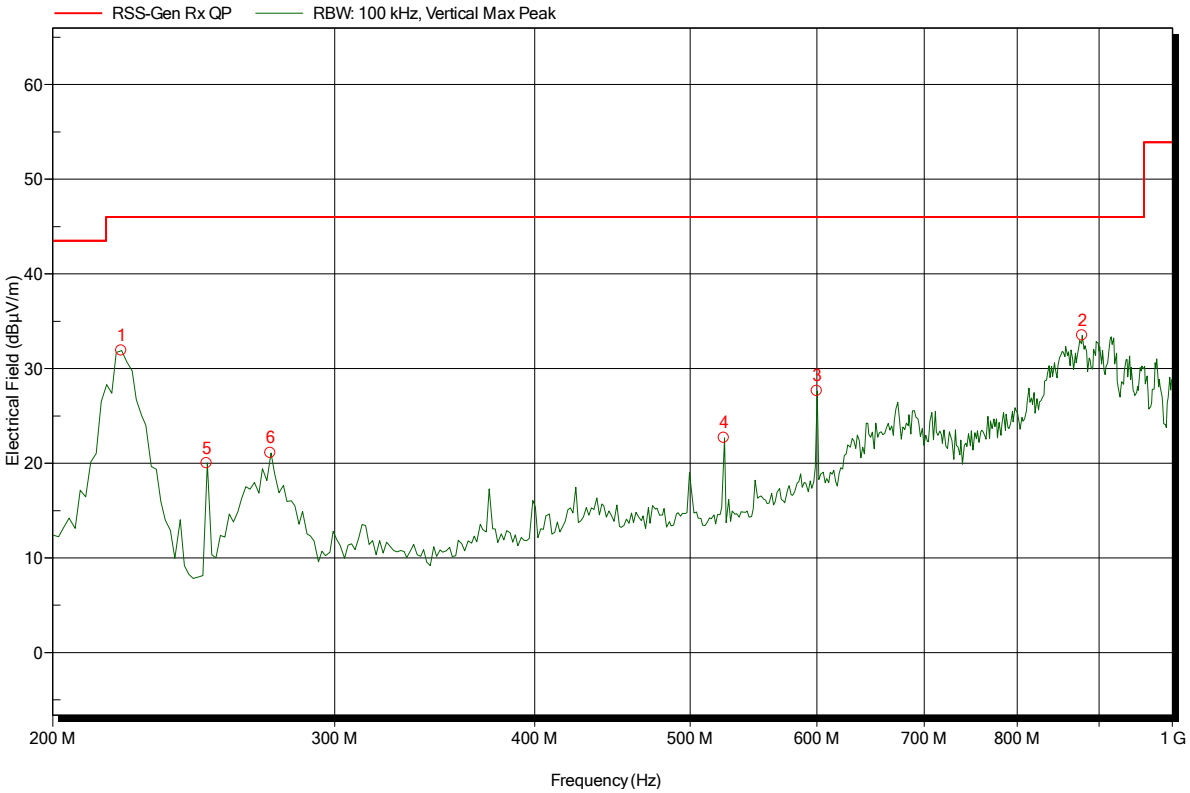

Frequency	Peak	Peak Limit	Peak Difference	Status
220.8 MHz	31.89 dBµV/m	46 dBµV/m	-14.11 dB	Pass
249.6 MHz	20.01 dBµV/m	46 dBµV/m	-25.99 dB	Pass
273.6 MHz	21.07 dBµV/m	46 dBµV/m	-24.93 dB	Pass
524.8 MHz	22.67 dBµV/m	46 dBµV/m	-23.33 dB	Pass
600 MHz	27.62 dBµV/m	46 dBµV/m	-18.38 dB	Pass
878.4 MHz	33.49 dBµV/m	46 dBµV/m	-12.51 dB	Pass

Spurious emissions according to IC RSS-Gen

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; IEEE 802.11b,g,n; Ch.6; 2437 MHz
Test Date:	2015-02-23
Note:	EUT vertical

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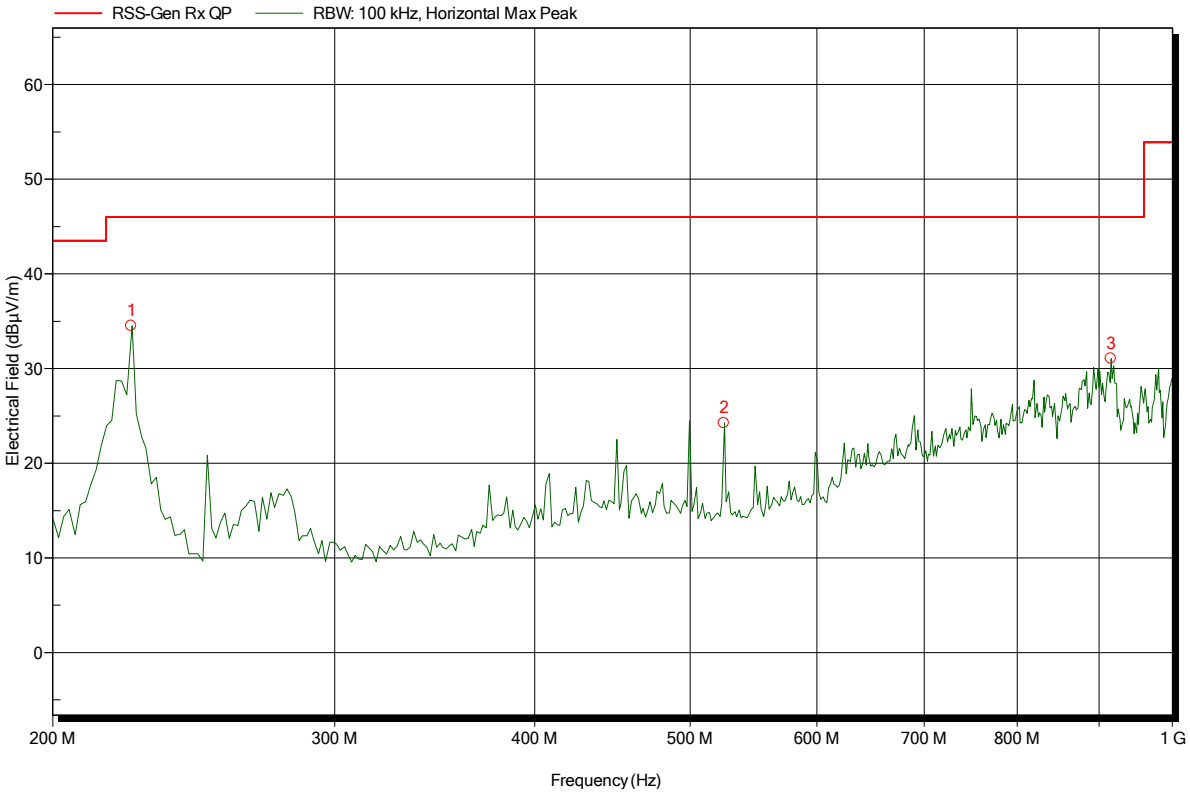

Frequency	Peak	Peak Limit	Peak Difference	Status
224 MHz	34.52 dBµV/m	46 dBµV/m	-11.48 dB	Pass
524.8 MHz	24.25 dBµV/m	46 dBµV/m	-21.75 dB	Pass
915.2 MHz	31.06 dBµV/m	46 dBµV/m	-14.94 dB	Pass

Spurious emissions according to IC RSS-Gen

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; IEEE 802.11b,g,n; Ch.6; 2437 MHz
Test Date:	2015-02-23
Note:	EUT vertical

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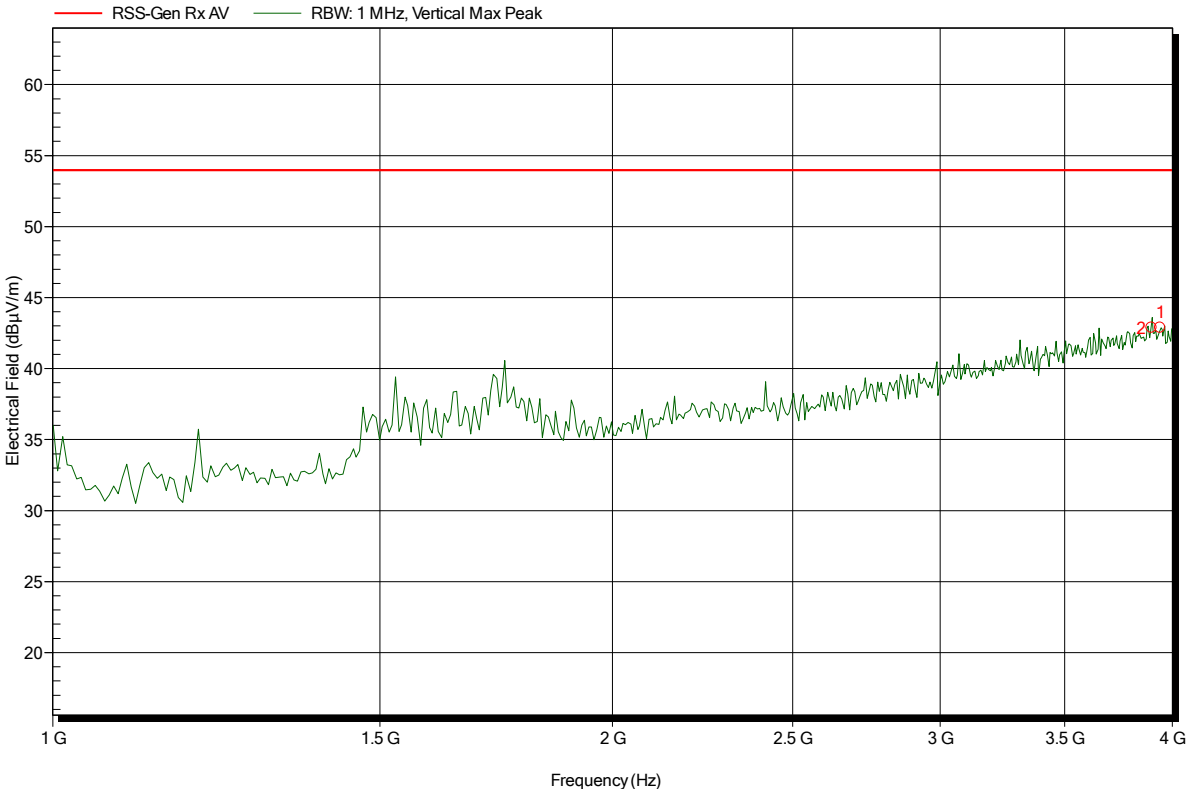

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
3.898 GHz	42.87 dBµV/m	53.98 dBµV/m	-11.11 dB	Pass
3.94 GHz	42.87 dBµV/m	53.98 dBµV/m	-11.11 dB	Pass

Spurious emissions according to IC RSS-Gen

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; IEEE 802.11b,g,n; Ch.6; 2437 MHz
Test Date:	2015-02-23
Note:	EUT vertical

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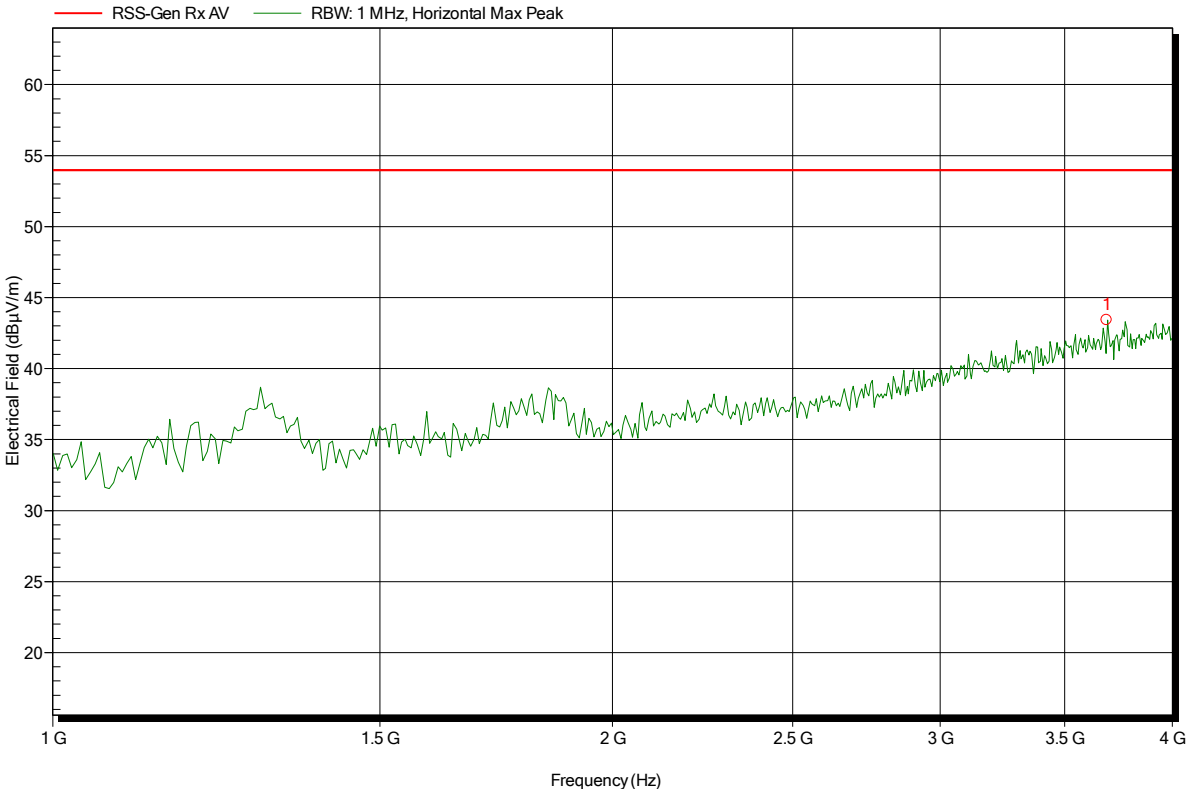

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
3.688 GHz	43.41 dBµV/m	53.98 dBµV/m	-10.57 dB	Pass

Spurious emissions according to IC RSS-Gen

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	3 m
Mode:	RX; IEEE 802.11b,g,n; Ch.6; 2437 MHz
Test Date:	2015-02-23
Note:	EUT vertical

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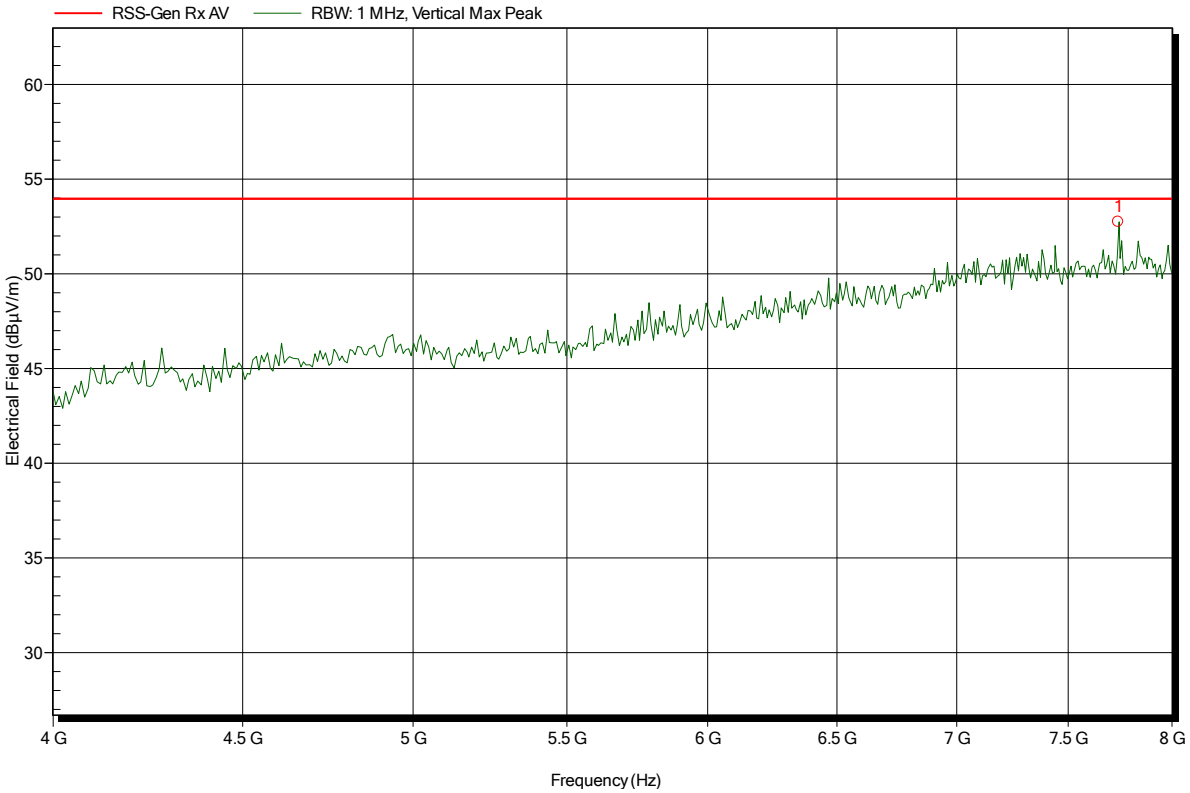

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
7.736 GHz	52.76 dBµV/m	53.98 dBµV/m	-1.22 dB	Pass

Spurious emissions according to IC RSS-Gen

Project number: G0M-1411-4293

Applicant:	AED Engineering
EUT Name:	CAN-WLAN Gateway RH
Model:	GN1001A
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 24 VDC
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	3 m
Mode:	RX; IEEE 802.11b,g,n; Ch.6; 2437 MHz
Test Date:	2015-02-23
Note:	EUT vertical

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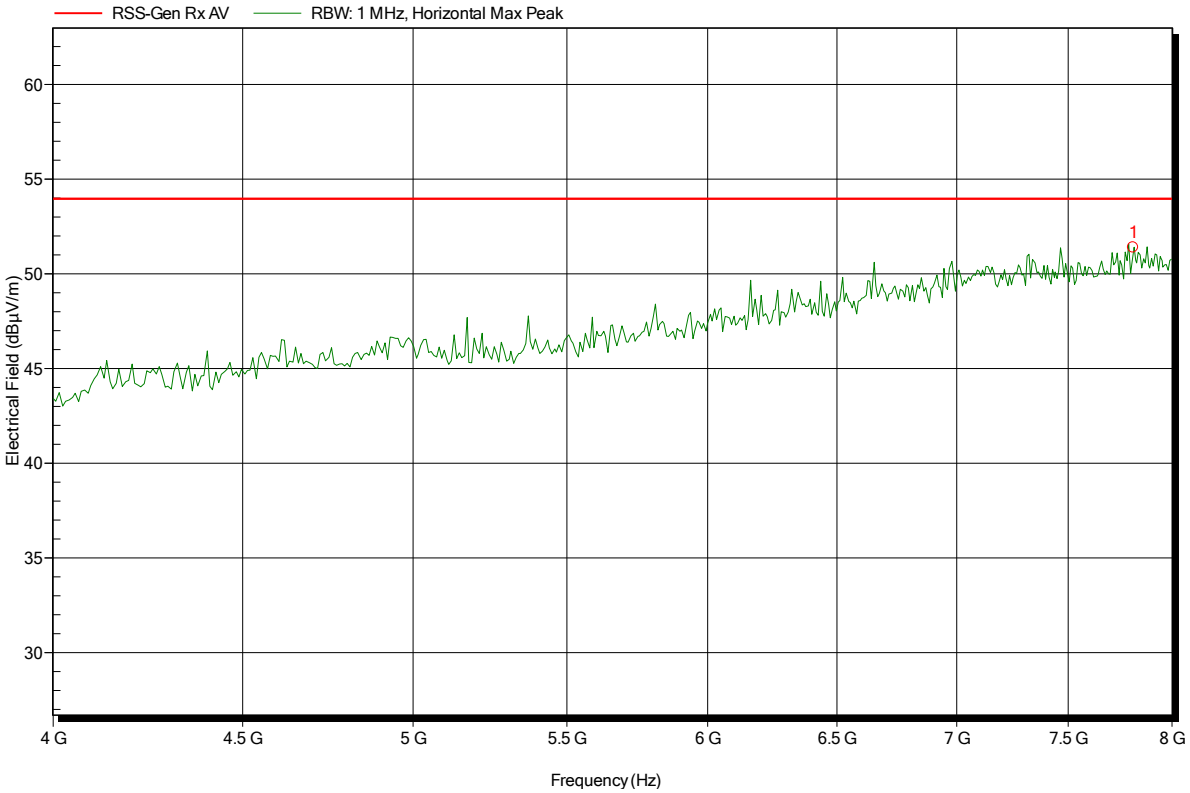

Frequency	Peak	Peak Limit	Peak Difference	Peak Status
7.808 GHz	51.39 dBµV/m	53.98 dBµV/m	-2.59 dB	Pass