

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-1409-4154-TFC247BL-DUO-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	Amor Gummiwaren GmbH
Address	August-Rost-Straße 4 99310 Arnstadt GERMANY
Test specification:	
Standard	47 CFR Part 15C KDB Publication No. 558074 RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 4, 2014-11 ANSI C63.4:2009
Test scope	complete Radio compliance test
Equipment under test (EUT):	
Product description	electric device
Model No.	Duo
Additional Model(s)	None
Brand Name(s)	Vibratissimo
Hardware version	V2.0
Firmware / Software version	BLE-Stack SD110 V6.0.0
	FCC-ID: 2ADAR504002 IC: 12372A-504002
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: 2014-12-29

Date (s) of performance of tests: 2015-01-06 – 2015-01-07

Compiled by: Matthias Handrik

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

Approved by (+ signature): Christian Weber

Date of issue: 2015-01-19

Total number of pages: 81

Handrik

C. Weber

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:

Version History

Version	Issue Date	Remarks	Revised by
01	2015-01-19	Initial Release	

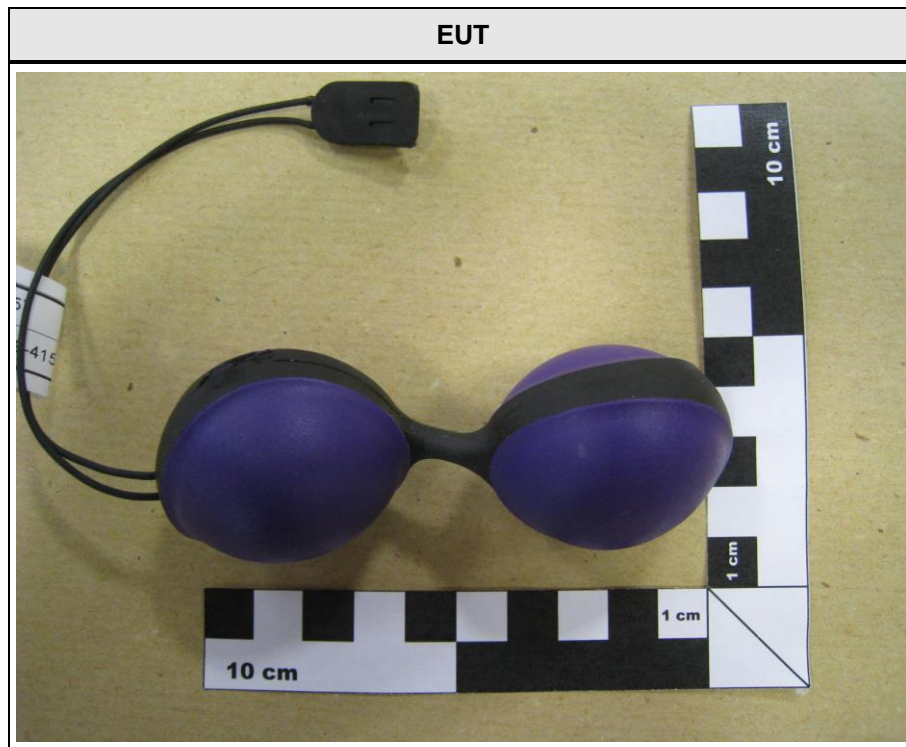
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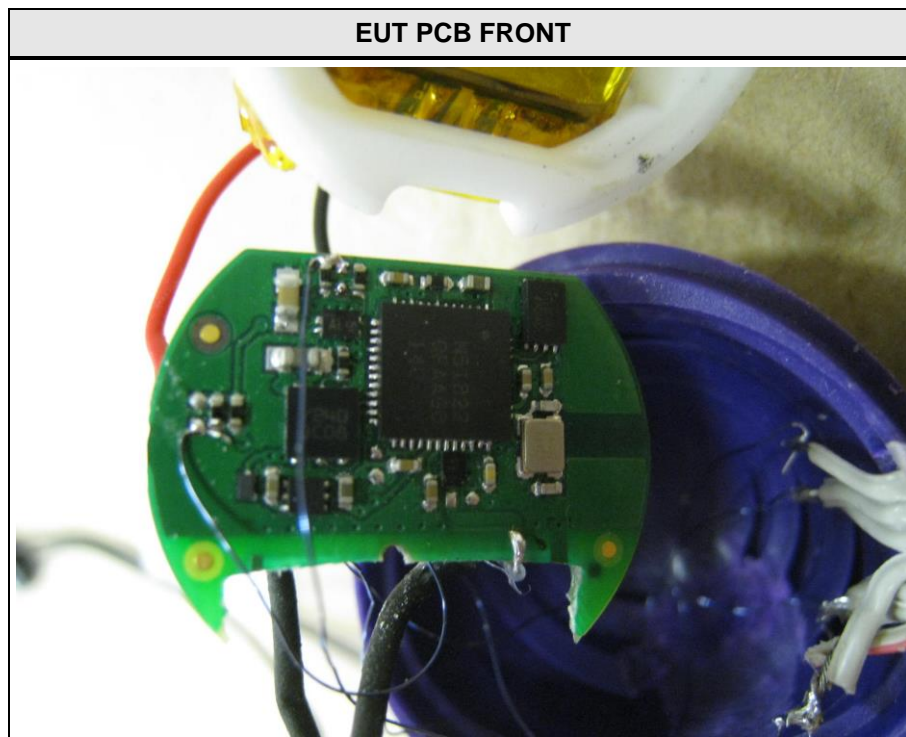
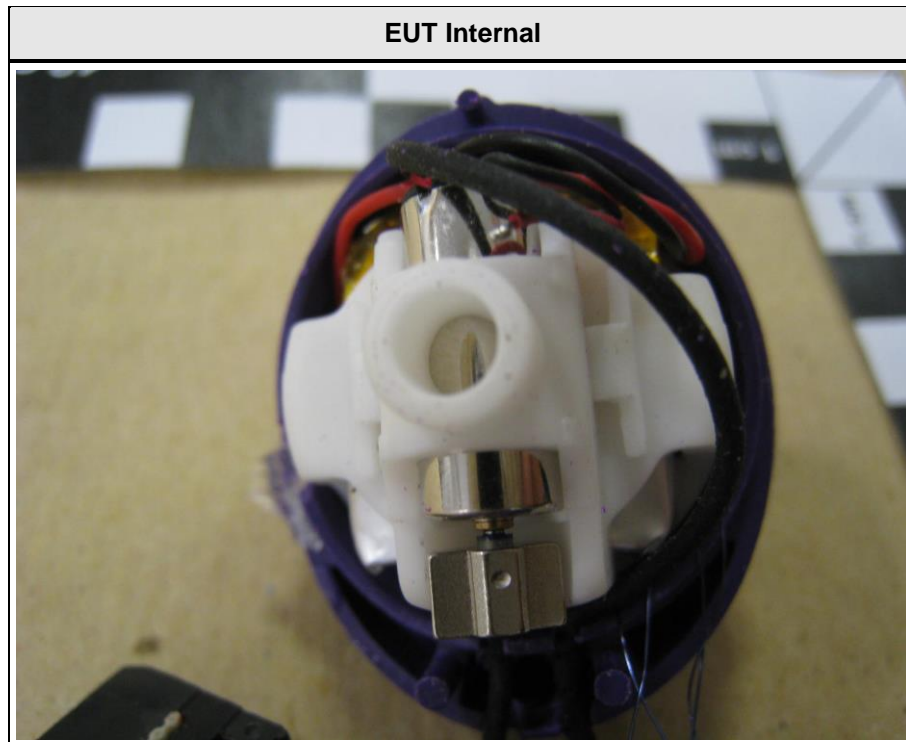
1 Equipment (Test item) Description

Description	electric device	
Model	Duo	
Additional Model(s)	None	
Brand Name(s)	Vibratissimo	
Serial number	None	
Hardware version	V2.0	
Software / Firmware version	BLE-Stack SD110 V6.0.0	
FCC-ID	2ADAR504002	
IC	12372A-504002	
Equipment type	End product	
Radio type	Transceiver	
Radio technology	Bluetooth 4.0 Low Energy	
Operating frequency range	2402 - 2480 MHz	
Assigned frequency band	2400 - 2483.5 MHz	
Main test frequencies	F _{LOW}	2402 MHz
	F _{MID}	2442 MHz
	F _{HIGH}	2480 MHz
Spreading	Frequency Hopping	
Modulations	GFSK	
Number of channels	40	
Channel spacing	2MHz	
Number of antennas	1	
Antenna	Type	integrated
	Model	wire antenna
	Manufacturer	unspecified
	Gain	+2.75 dBi (manufacturer declaration)
Manufacturer	Amor Gummiwaren GmbH August-Rost-Straße 4 99310 Arnstadt GERMANY	
Power supply	V _{NOM}	3.7 VDC
	V _{MIN}	N/R
	V _{MAX}	N/R
AC/DC-Adaptor	Model	FW7713
	Vendor	Friwo
	Input	100-240V AC, 50/60 Hz, 150 mA
	Output	5.0 VDC, 100 mA

1.1 Photos – Equipment External



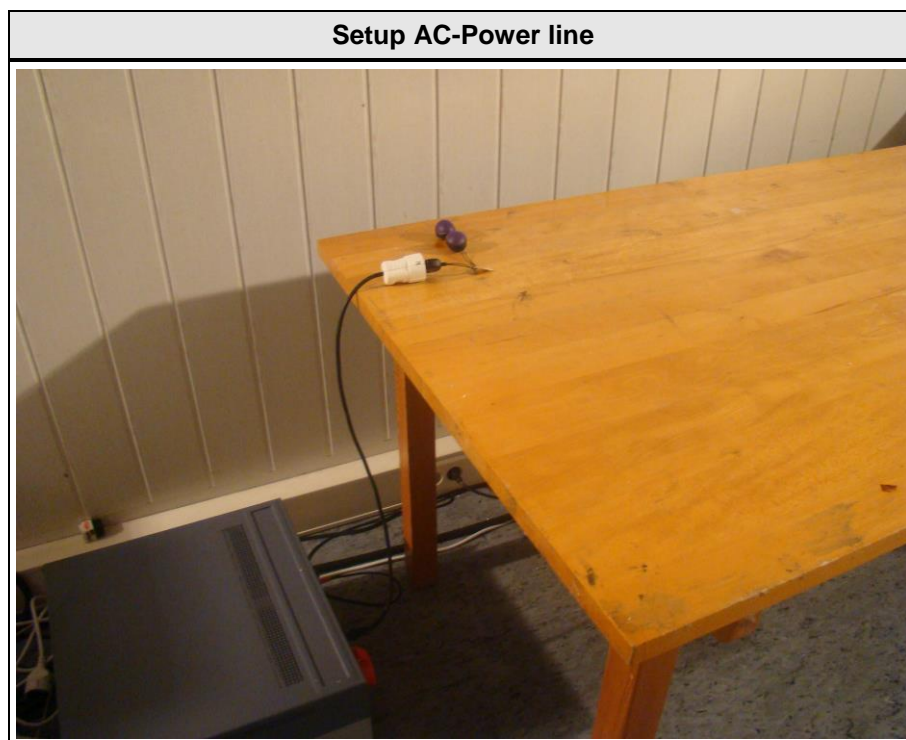
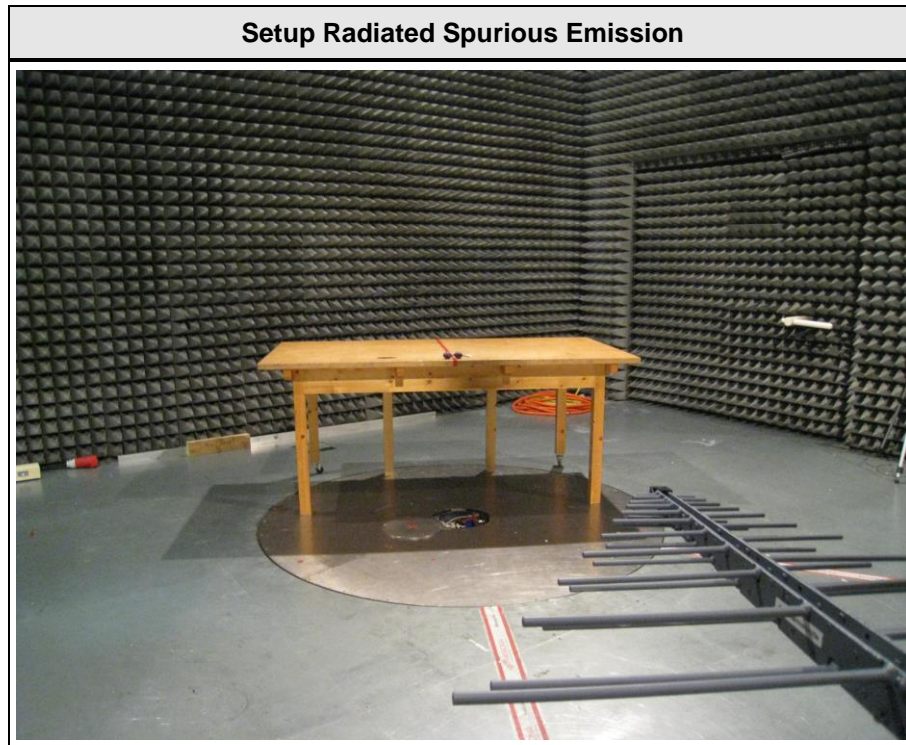
1.2 Photos – Equipment internal



EUT PCB BACK



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	Laptop	DELL	Latitude D 630	-
AE	AC/DC adaptor	FRIWO Gerätebau GmbH	FW7713	-
AE : Auxiliary/Associated Equipment				

1.5 Test Modes

Mode #	Description	
Transmit	General conditions:	EUT powered by internal battery.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = GFSK Data rate = 1 Mbps Bandwidth = 2 MHz Duty cycle = 100 % Power level = Maximum
Receive	General conditions:	EUT powered by internal battery.
	Radio conditions:	Mode = standalone receive (scan mode) Spreading = FHSS Modulation = GFSK
AC-Powerline	General conditions:	EUT charged by AC/DC adaptor
	Radio conditions:	Mode = Radio "OFF" during charging

1.6 Test Equipment Used During Testing

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

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSW43	EF00896	2014-02	2015-02

6dB Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSW43	EF00896	2014-02	2015-02

Maximum peak conducted power					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSW43	EF00896	2014-02	2015-02

Power spectral density					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSW43	EF00896	2014-02	2015-02

Band edge compliance					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSW43	EF00896	2014-02	2015-02

Conducted spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum analyzer	R&S	FSW43	EF00896	2014-02	2015-02

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
Spectrum Analyzer	R&S	FSEK30	EF00168	2014-01	2015-01
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	2015-11
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 dB μ V. 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:

$$\text{Reading on Analyzer (dB}\mu\text{V)} + \text{A.F. (dB)} = \text{Net field strength (dB}\mu\text{V/m)}$$

Net:

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

Limit:

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

$$\text{Limit (dB}\mu\text{V/m)} = 20 \cdot \log (\mu\text{V/m})$$

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:

$$\begin{array}{rclclcl} \text{Reading} & + & \text{AF} & = & \text{Net Reading} & : & \text{Net reading - FCC limit} & = & \text{Margin} \\ 21.5 \text{ dB}\mu\text{V} & + & 26 \text{ dB} & = & 47.5 \text{ dB}\mu\text{V/m} & : & 47.5 \text{ dB}\mu\text{V/m} - 57.0 \text{ dB}\mu\text{V/m} & = & -9.5 \text{ dB} \end{array}$$

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
FCC § 15.247(a)(2) IC RSS-210 § A8.2	6dB Bandwidth	KDB Publication No. 558074	PASS	
FCC § 15.247(b)(3) IC RSS-210 § A8.4	Maximum peak conducted power	KDB Publication No. 558074	PASS	
FCC § 15.247(e) IC RSS-210 § A8.2	Power spectral density	KDB Publication No. 558074	PASS	
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	
FCC § 15.247(d) IC RSS-210 § A8.5	Conducted spurious emissions	KDB Publication No. 558074	PASS	
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 – Occupied Bandwidth

Occupied Bandwidth acc. to IC RSS-Gen			Verdict: PASS
Test according to measurement reference	Reference Method		
	RSS-Gen 6.6		
Test frequency range	Tested frequencies		
	F _{LOW} / F _{MID} / F _{HIGH}		
Limits			
None (Informational only)			
Test setup			
<div><div>Spectrum Analyzer</div><div>EUT</div></div>			
Test procedure			
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function			
Test results			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F _{LOW}	2402	Transmit	994.8
F _{MID}	2440	Transmit	984.8
F _{HIGH}	2480	Transmit	977.3
Comments:			

Occupied Bandwidth – F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren

EUT Name: electric device

Model: Duo

Test Site: Eurofins Product Service GmbH

Operator: Wilfried Treffke

Test Conditions: Tnom / Vnom

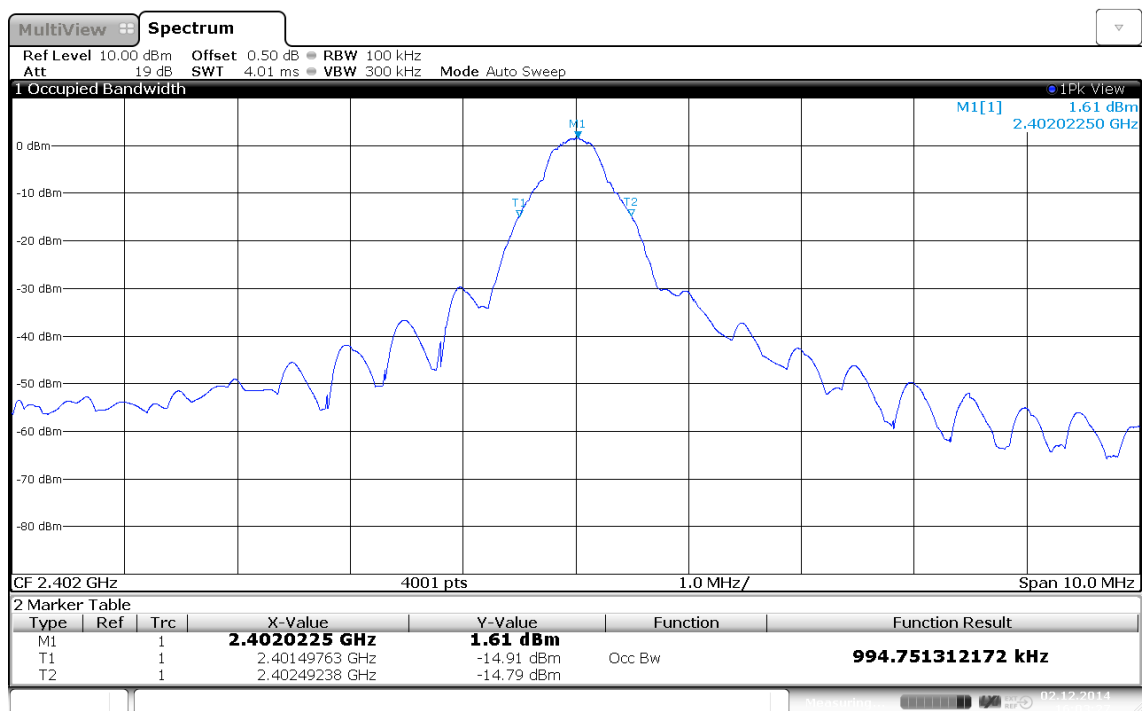
Mode: Tx, BT-LE, 2402 MHz, modulated

Test Date: 2014-12-02

Verdict: PASS

Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW = 994.8 MHz



Occupied bandwidth: 994.8 KHz

Date: 2 DEC.2014 16:03:27

Test Report No.: G0M-1409-4154-TFC247BL-DUO-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren

EUT Name: electric device

Model: Duo

Test Site: Eurofins Product Service GmbH

Operator: Wilfried Treffke

Test Conditions: Tnom / Vnom

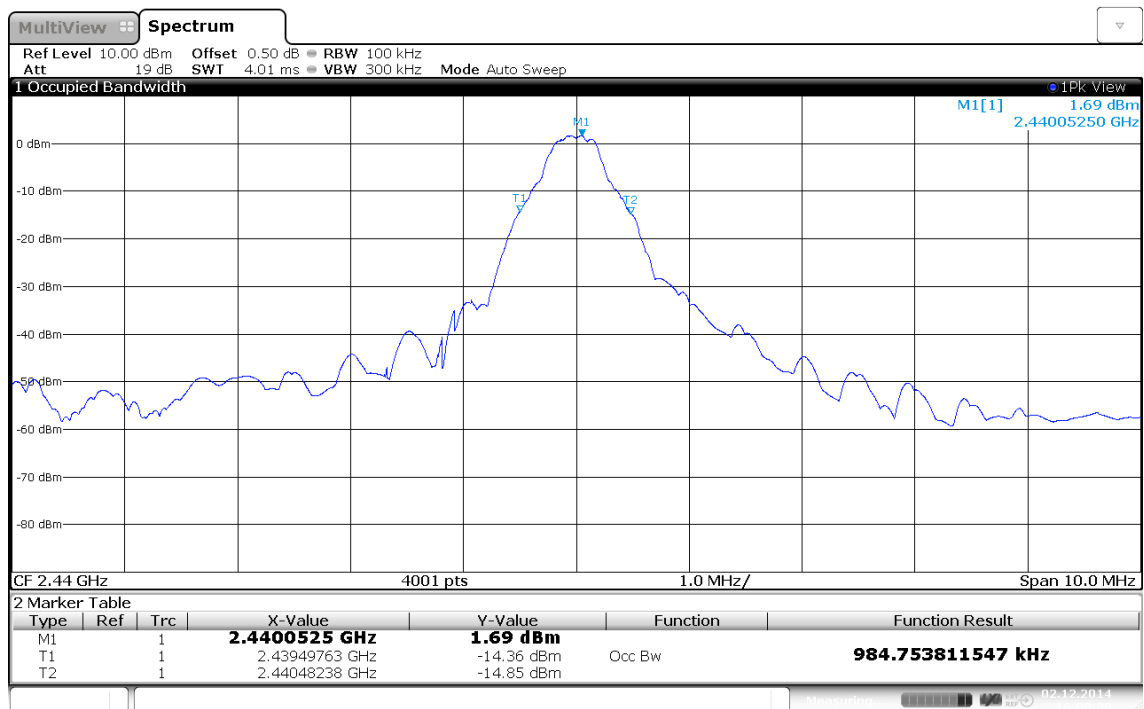
Mode: Tx, BT-LE, 2440 MHz, modulated

Test Date: 2014-12-02

Verdict: PASS

Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW= 984.8 MHz



Occupied Bandwidth – F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren

EUT Name: electric device

Model: Duo

Test Site: Eurofins Product Service GmbH

Operator: Wilfried Treffke

Test Conditions: Tnom / Vnom

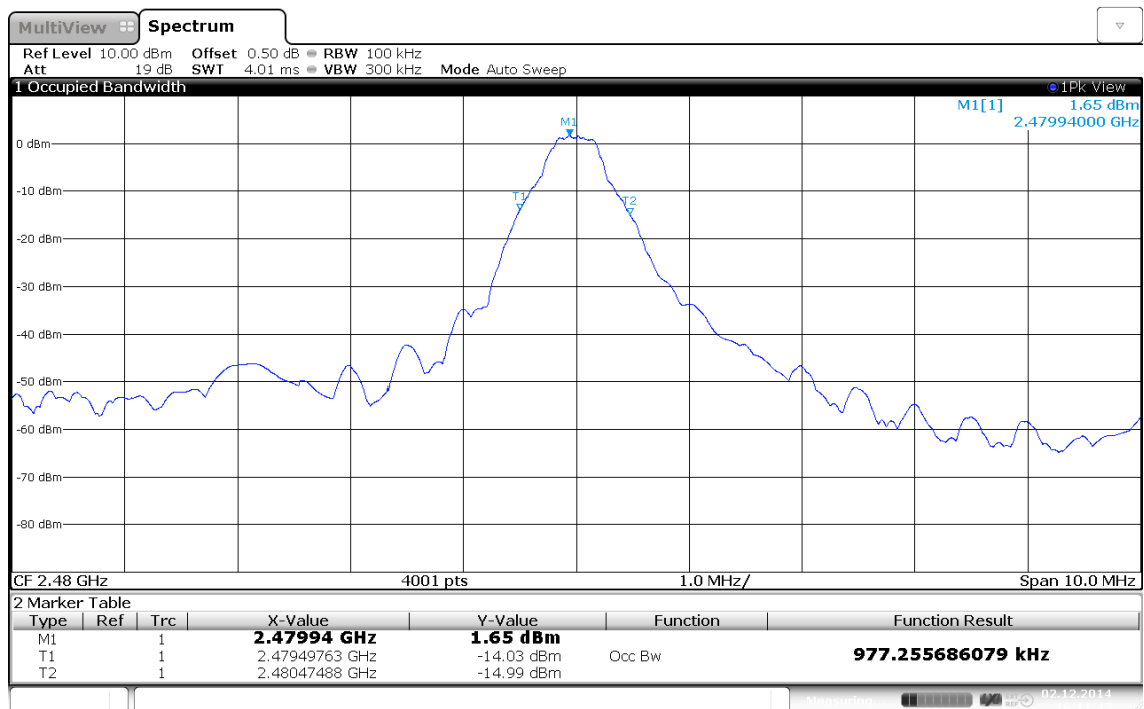
Mode: Tx, BT-LE, 2480 MHz, modulated

Test Date: 2014-12-02

Verdict: PASS

Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used

Note 2: OBW = 977.3 MHz



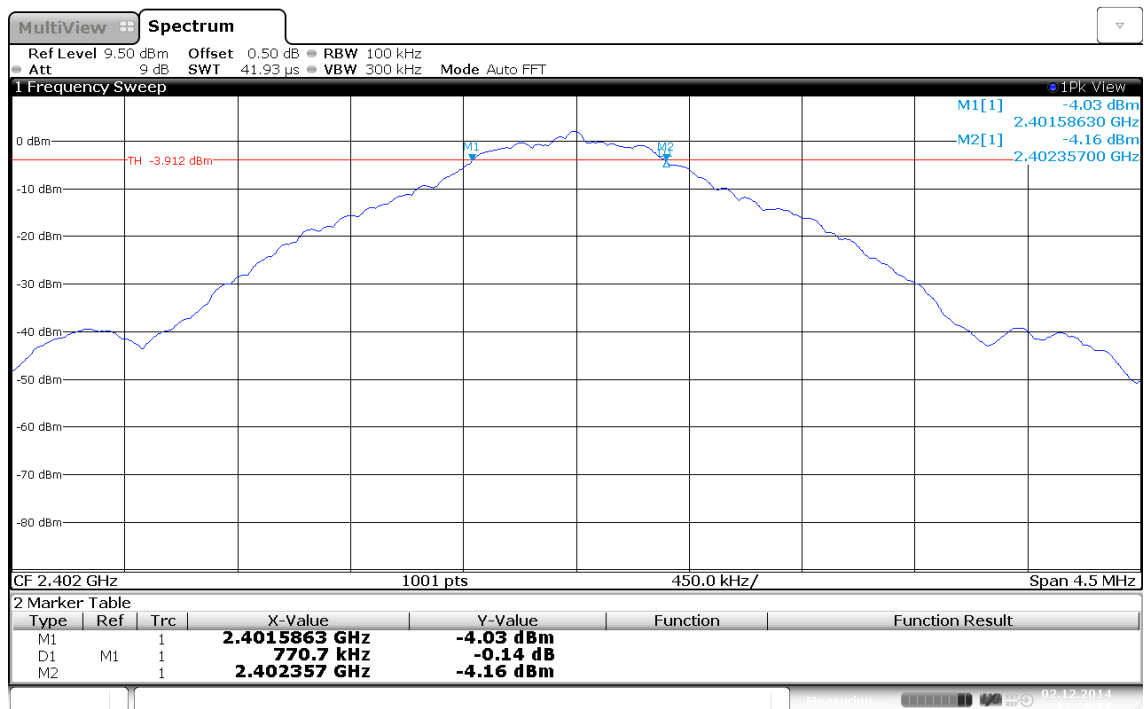
3.2 Test Conditions and Results – 6 dB Bandwidth

6dB Bandwidth acc. FCC 15.247 / IC RSS-210				Verdict: PASS	
EUT requirement rule parts and clause		Reference			
		FCC 15.247(a)(2) / IC RSS-210 A8.2			
Test according to measurement reference		Reference Method			
		FCC KDB Publication No. 558074			
Test frequency range		Tested frequencies			
		F _{LOW} / F _{MID} / F _{HIGH}			
Limits					
≥ 500kHz					
Test setup					
<div><div>Spectrum Analyzer</div><div>EUT</div></div>					
Test procedure					
<div>1. EUT set to test mode</div> <div>2. Span set to at least twice the emission spectrum</div> <div>3. Detector set to peak and max hold and RBW is set to 100 kHz</div> <div>4. Envelope peak value of emission spectrum is selected</div> <div>5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak</div> <div>6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak</div> <div>7. 6 dB Bandwidth is determined by marker frequency separation</div>					
Test results					
Channel	Frequency [MHz]	Mode	6 dB Bandwidth [kHz]	Limit [kHz]	Result
F _{LOW}	2402	Transmit	770.7	500	PASS
F _{MID}	2440	Transmit	918.9	500	PASS
F _{HIGH}	2480	Transmit	872.2	500	PASS
Comments:					

6 dB Bandwidth – F_{Low}
Minimum 6 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1408-4154

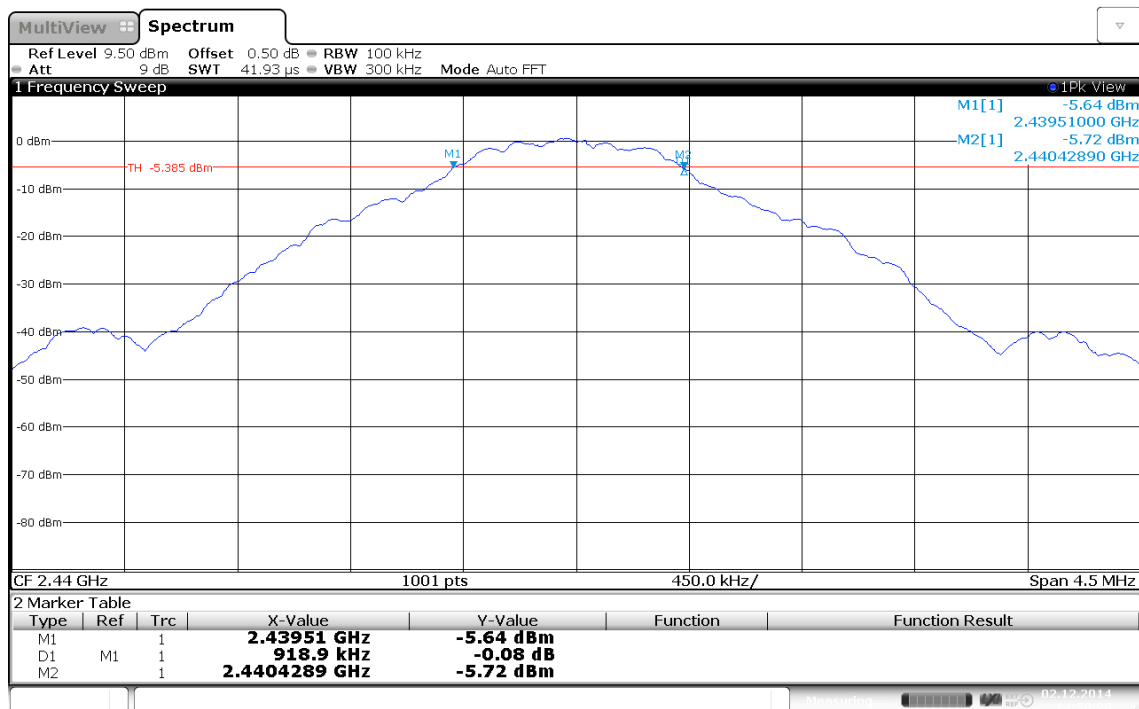
Applicant: Amor Gummiwaren
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom / Vnom
 Mode: Tx, BTLE, 2402 MHz, modulated
 Test Date: 2014-12-02
 Verdict: PASS
 Note 1: Procedure 8.1 DTS (558074 D01 Meas Guidance)
 Note 2: Minimum 6 dB Bandwidth conducted



6 dB Bandwidth – F_{MID}
Minimum 6 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom / Vnom
 Mode: Tx, BTLE, 2440 MHz, modulated
 Test Date: 2014-12-02
 Verdict: PASS
 Note 1: Procedure 8.1 DTS (558074 D01 Meas Guidance)
 Note 2: Minimum 6 dB Bandwidth conducted



6 dB bandwidth: 918.9 KHz > 500 KHz; verdict: PASS

Date: 2 DEC.2014 14:58:26

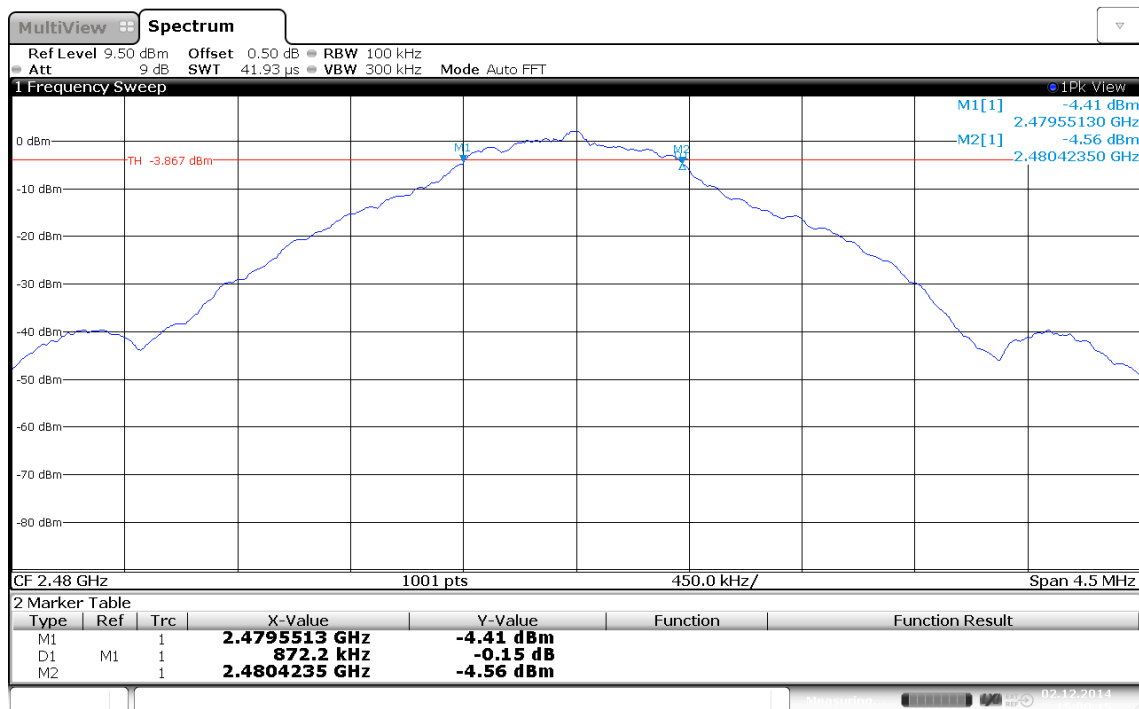
Test Report No.: G0M-1409-4154-TFC247BL-DUO-V01

Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

6 dB Bandwidth – F_{HIGH}
Minimum 6 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom / Vnom
 Mode: Tx, BTLE, 2480 MHz, modulated
 Test Date: 2014-12-02
 Verdict: PASS
 Note 1: Procedure 8.1 DTS (558074 D01 Meas Guidance)
 Note 2: Minimum 6 dB Bandwidth conducted



3.3 Test Conditions and Results – Maximum peak conducted power

Maximum peak conducted power acc. to FCC 15.247 / IC RSS-210						Verdict: PASS	
EUT requirement rule parts and clause			Reference				
			FCC 15.247(b)(3) / IC RSS-210 A8.4				
Test according to measurement reference			Reference Method				
			FCC KDB Publication No. 558074				
Test frequency range			Tested frequencies				
			F _{LOW} / F _{MID} / F _{HIGH}				
Measurement mode			Peak				
Maximum antenna gain			2.75 dBi ⇒ Limit correction = 0 dB				
Limits							
1 W (30 dBm)							
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.							
Test setup							
<div><div>Spectrum Analyzer</div><div>EUT</div></div>							
Test procedure							
<div>1. EUT set to test mode (Communication tester is used if needed)</div> <div>2. Center frequency set to test channel center frequency</div> <div>3. Span set to twice the 20 dB bandwidth and detector to peak and max hold</div> <div>4. Resolution bandwidth is set to 3 MHz</div> <div>5. Peak conducted power is determined from peak of spectrum envelope</div>							
Test results							
Channel	Frequency [MHz]	Voltage [VDC]	Mode	Peak power [dbm]	Peak power [W]	Limit [dBm]	Margin [dB]
F _{LOW}	2402	V _{nom} = 3.7	Transmit	2.33	0.00	30	-27.67
F _{MID}	2440	V _{nom} = 3.7	Transmit	2.38	0.00	30	-27.62
F _{HIGH}	2480	V _{nom} = 3.7	Transmit	2.39	0.00	30	-27.61
Comment:							

3.4 Test Conditions and Results – Power spectral density

Power spectral density acc. to FCC 15.247 / IC RSS-210					Verdict: PASS	
EUT requirement rule parts and clause		Reference				
		FCC 15.247(e) / IC RSS-210 A8.2				
Test according to measurement reference		Reference Method				
		FCC KDB Publication No. 558074				
Test frequency range		Tested frequencies				
		F _{LOW} / F _{MID} / F _{HIGH}				
Measurement mode		Peak				
Limits						
8 dBm / 3 kHz						
Test setup						
<div><div>Spectrum Analyzer</div><div>EUT</div></div>						
Test procedure						
<div>1. EUT set to test mode (Communication tester is used if needed)</div> <div>2. Center frequency set to test channel center frequency</div> <div>3. Span is set large enough to capture maximum emissions in passband, RBW is set to 3kHz</div> <div>4. Peak power density is determined from peak emission of envelope</div>						
Test results						
Channel	Frequency [MHz]	Test mode	Peak frequency [MHz]	Peak power density [dBm]	Limit [dBm/3kHz]	Margin [dB]
F _{LOW}	2402	Transmit	2399.986	2.24	8.0	-05.76
F _{MID}	2440	Transmit	2439.991	2.36	8.0	-05.64
F _{HIGH}	2480	Transmit	2480.022	2.35	8.0	-05.65
Comments:						

3.5 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 power line			
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.					

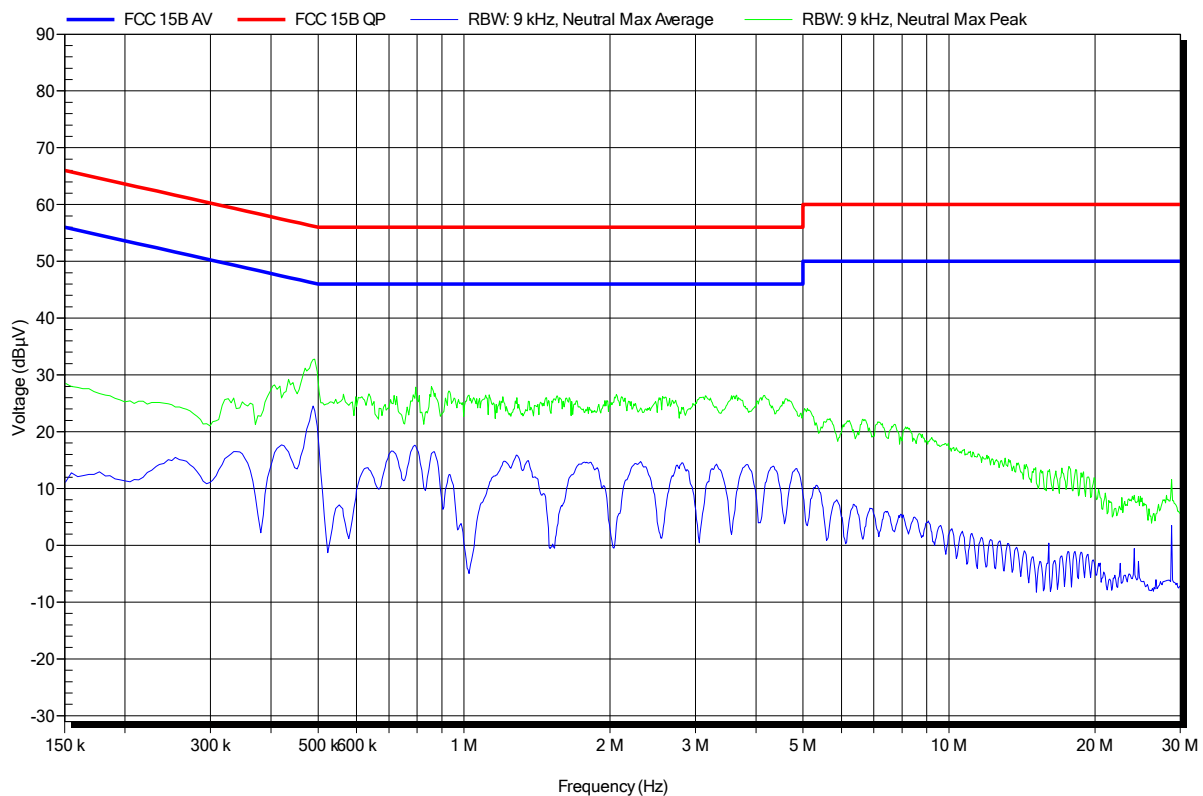
Conducted Emissions

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

Project number: G0M-1409-4154

Manufacturer: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Klein
 Test Conditions: Tnom: 23°C, Unom: 120 VAC (AC-DC Adpater)
 LISN: ESH2-Z5 N
 Mode: charging
 Test Date: 2014-12-30
 Note:

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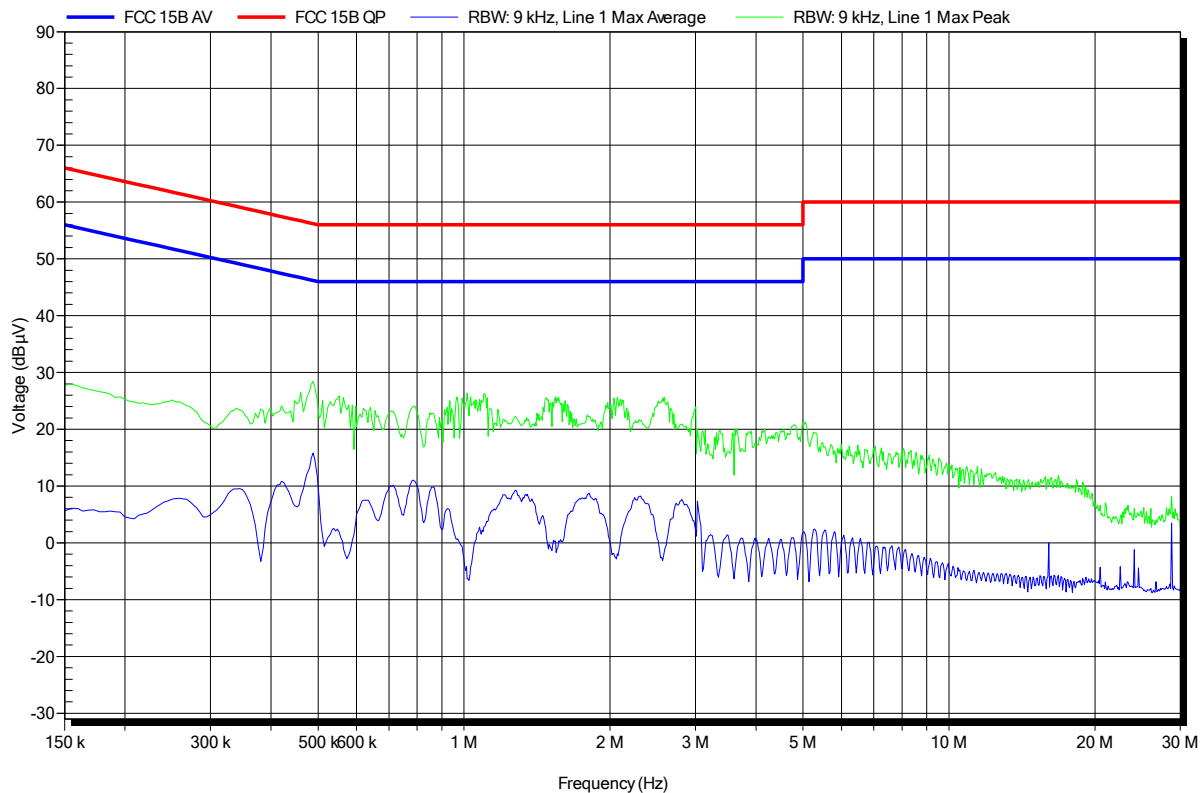


Conducted Emissions
EMI voltage test in the ac-mains according to FCC 15B

Project number: G0M-1409-4154

Manufacturer: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Klein
 Test Conditions: Tnom: 23°C, Unom: 120 VAC (AC-DC Adapter)
 LISN: ESH2-Z5 L
 Mode: charging
 Test Date: 2014-12-30
 Note:

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3.6 Test Conditions and Results – Band edge compliance

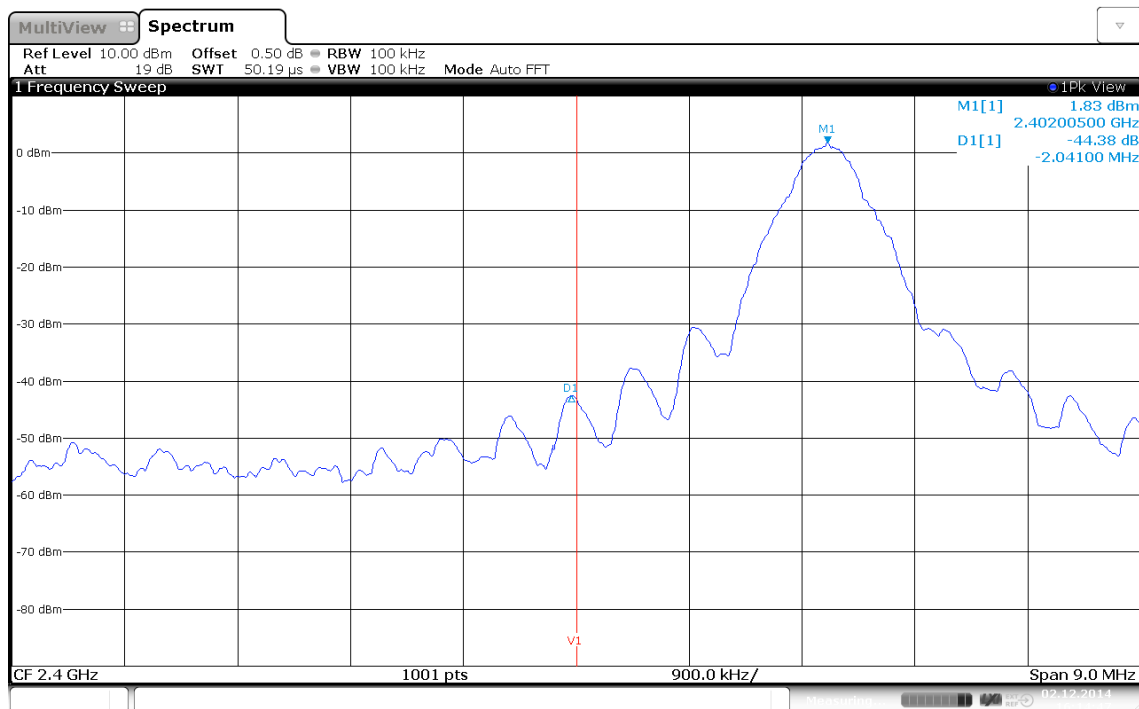
Band-edge compliance acc. FCC 15.247 / IC RSS-210				Verdict: PASS	
EUT requirement rule parts and clause		Reference			
		FCC 15.247(d) / IC RSS-210 A8.5			
Test according to measurement reference		Reference Method			
		FCC KDB Publication No. 558074			
Test frequency range		Tested frequencies			
		F _{LOW} / F _{HIGH}			
Measurement mode		Peak			
Limits					
Limit			Condition		
≤ -20 dB / 100 kHz			Peak power measurement detector = Peak		
≤ -30 dB / 100 kHz			Peak power measurement detector = RMS		
Test setup					
<div><div>Spectrum Analyzer</div><div>EUT</div></div>					
Test procedure					
1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference					
Test results					
Channel	Frequency [MHz]	Mode	Level [dBc]	Limit [dBc]	Margin [dB]
F _{LOW}	2402	Transmit	-44.38	-20	-24.38
F _{HIGH}	2480	Transmit	-59.18	-20	-39.18
Comments:					

Band-edge compliance

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren
EUT Name: electric device
Model: Duo
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom / Vnom
Mode: Tx, BTLE, 2402 MHz, modulated
Test Date: 2014-12-02
Verdict: PASS
Note 1: 558074 D01 Meas Guidance
Note 2: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB; Result: PASS
Date: 2 DEC 2014 16:14:47

Test Report No.: G0M-1409-4154-TFC247BL-DUO-V01

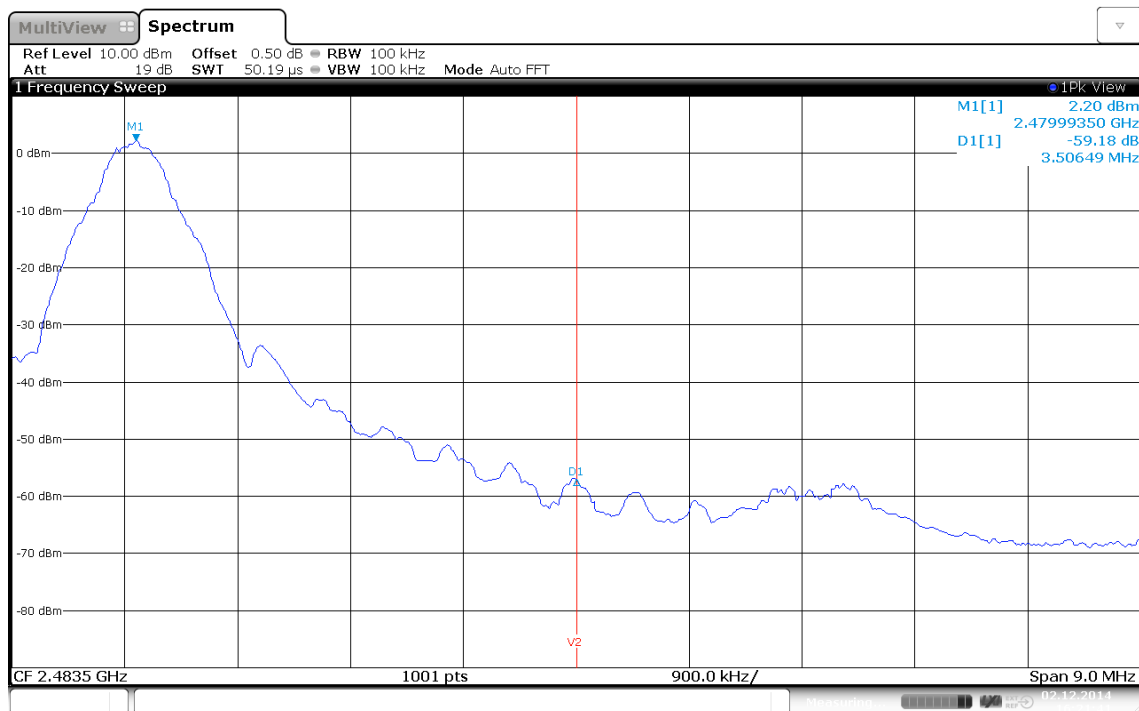
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren
EUT Name: electric device
Model: Duo
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom / Vnom
Mode: Tx, BTLE, 2480 MHz, modulated
Test Date: 2014-12-02
Verdict: PASS
Note 1: 558074 D01 Meas Guidance
Note 2: upper Band-edge, conducted measurement



Date: 2 DEC. 2014 16:21:41

Test Report No.: G0M-1409-4154-TFC247BL-DUO-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.7 Test Conditions and Results – Conducted spurious emissions

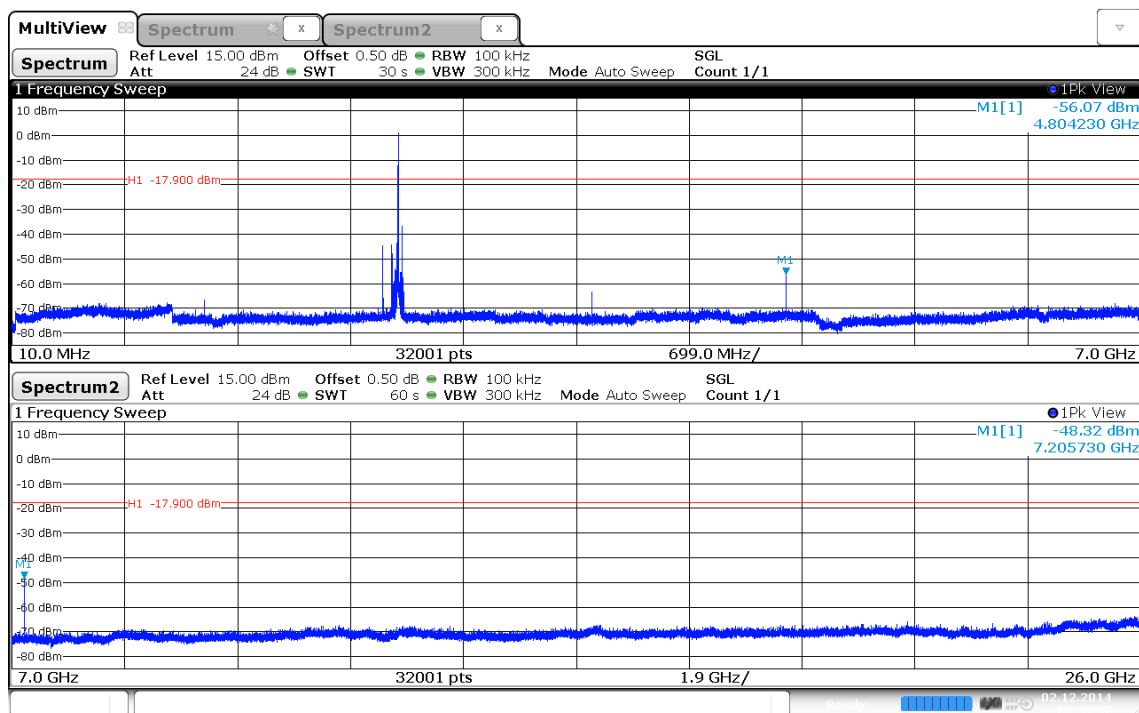
Conducted spurious emissions acc. to FCC 15.247 / IC RSS-210						Verdict: PASS	
EUT requirement rule parts and clause			Reference				
			FCC 15.247(d) / IC RSS-210 A8.5				
Test according to measurement reference			Reference Method				
			FCC KDB Publication No. 558074				
Test frequency range			Tested frequencies				
			10 MHz – 10 th Harmonic				
Measurement mode			Peak				
Limits							
Limit				Condition			
≤ -20 dB / 100 kHz				Peak power measurement detector = Peak			
≤ -30 dB /100 kHz				Peak power measurement detector = RMS			
Test setup							
<div><div>Spectrum Analyzer</div><div>EUT</div></div>							
Test procedure							
<div>1. EUT set to test mode (Communication tester is used if needed)</div> <div>2. Span it set according to measurement range</div> <div>3. Resolution bandwidth is set to 100 kHz and detector to peak and max hold</div> <div>4. Markers are set to peak emission levels within frequency band</div> <div>5. Emission level is determined by second marker on emission peak</div> <div>6. Attenuation is determined from level difference</div>							
Test results							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Emission Level [dbm]	Peak power [dBm]	Limit [dBm]	Margin [dB]
F _{LOW}	2402	Transmit	7205.7	-48.32	2.1	-17.9	-30.42
F _{MID}	2440	Transmit	7319.1	-50.48	2.4	-17.6	-32.88
F _{HIGH}	2480	Transmit	7440.8	-54.23	2.3	-17.7	-36.53
Comments:							

Conducted spurious emissions – F_{Low}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom / Vnom
 Mode: Tx, BTLE, 2402 MHz, modulated
 Test Date: 2014-12-02
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands (558074 D01 Meas Guidance)
 Note 2: conducted measurement



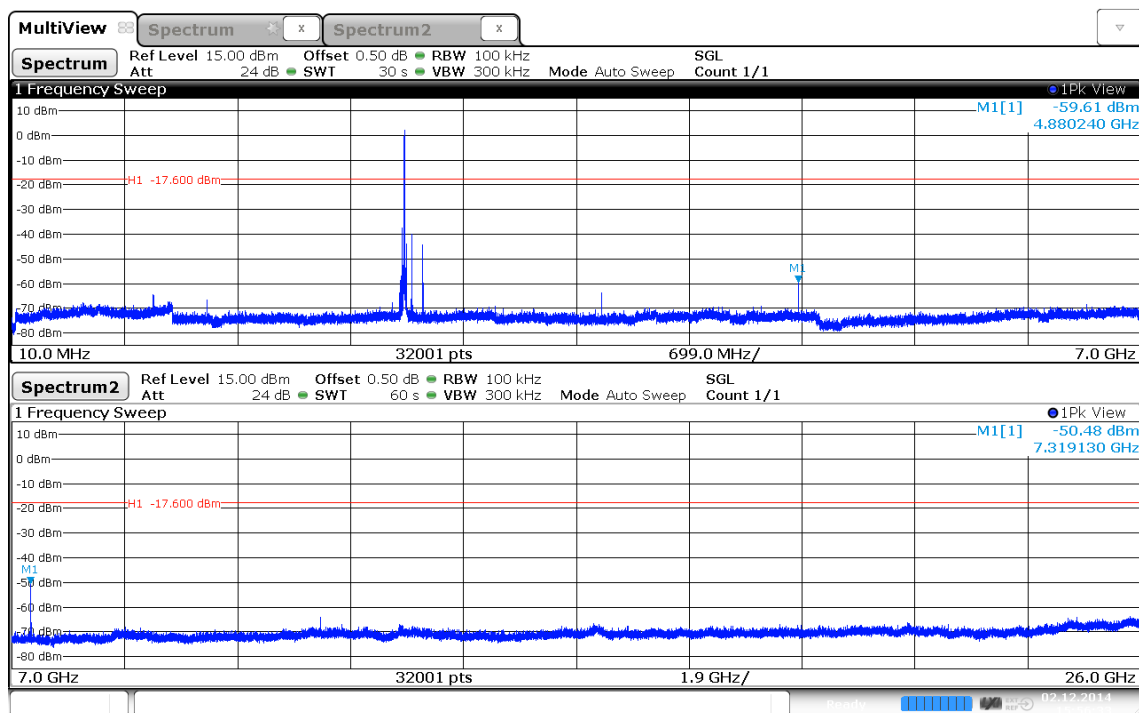
Date: 2 DEC. 2014 15:30:36

Conducted spurious emissions – F_{MID}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom / Vnom
 Mode: Tx, BTLE, 2440 MHz, modulated
 Test Date: 2014-12-02
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands (558074 D01 Meas Guidance)
 Note 2: conducted measurement

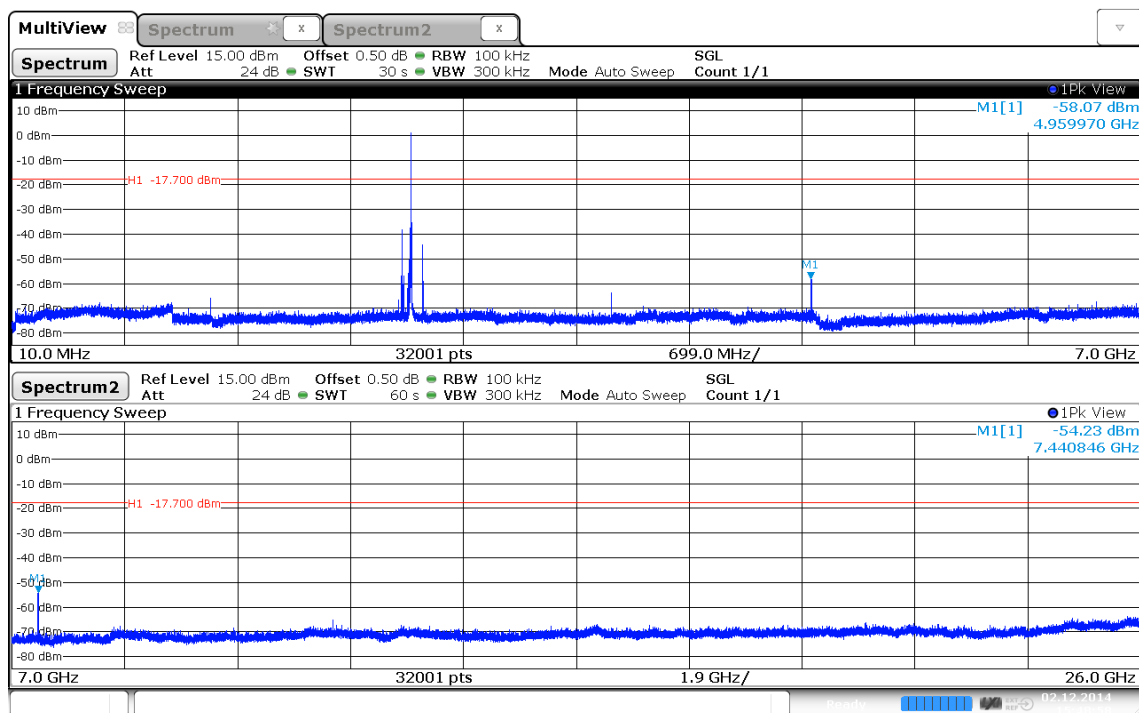


Conducted spurious emissions – F_{HIGH}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1408-4154

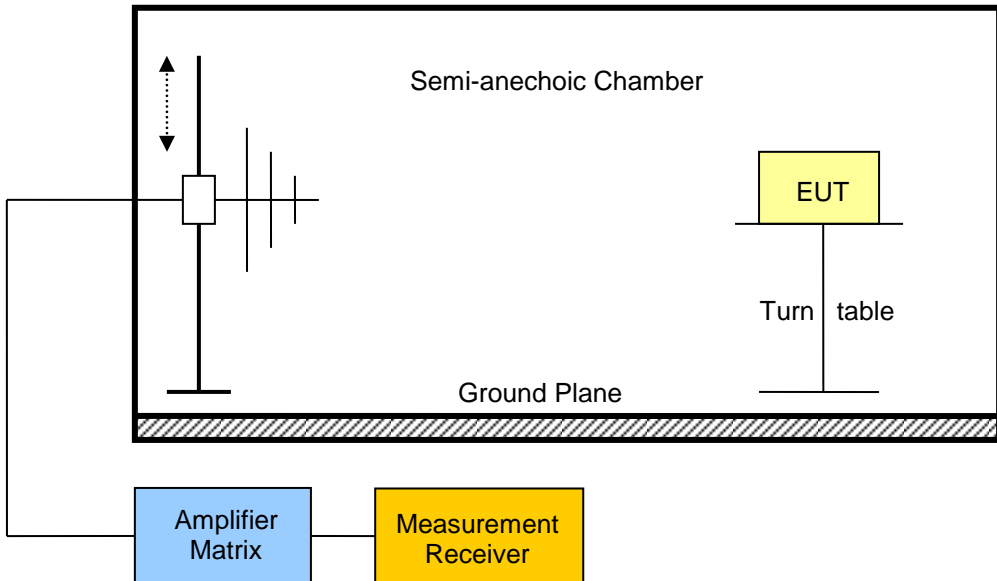
Applicant: Amor Gummiwaren
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom / Vnom
 Mode: Tx, BTLE, 2480 MHz, modulated
 Test Date: 2014-12-02
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands (558074 D01 Meas Guidance)
 Note 2: conducted measurement



3.8 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated emissions acc. 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 – 10 th 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									
<ol style="list-style-type: none"> 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									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Limit dist. [m]*	Margin [dB]
F _{LOW}	2402	Transmit	1406	47.59	pk	hor	74.00	3	-26.41
F _{LOW}	2402	Transmit	2324	50.49	pk	ver	74.00	3	-23.51
F _{LOW}	2402	Transmit	2324	26.53	RMS	ver	54.00	3	-27.47
F _{LOW}	2402	Transmit	2324	56.18	pk	hor	74.00	3	-17.82
F _{LOW}	2402	Transmit	2324	30.36	RMS	hor	54.00	3	-23.64
F _{LOW}	2402	Transmit	2380	48.95	pk	ver	74.00	3	-25.05
F _{LOW}	2402	Transmit	2380	25.75	RMS	ver	54.00	3	-28.25
F _{LOW}	2402	Transmit	2380	53.87	pk	hor	74.00	3	-20.13
F _{LOW}	2402	Transmit	2380	28.12	RMS	hor	54.00	3	-25.88
F _{LOW}	2402	Transmit	2400	88.00	pk	ver	95.00	3	-07.00
F _{LOW}	2402	Transmit	2400	88.01	pk	hor	95.00	3	-06.99
F _{LOW}	2402	Transmit	4800	51.45	pk	hor	74.00	3	-22.55
F _{LOW}	2402	Transmit	4800	43.92	pk	ver	74.00	3	-30.08
F _{LOW}	2402	Transmit	7192	48.88	pk	ver	95.00	3	-46.12
F _{LOW}	2402	Transmit	7200	50.18	pk	hor	95.00	3	-44.82
F _{MID}	2440	Transmit	4880	47.97	pk	ver	74.00	3	-26.03
F _{MID}	2440	Transmit	4880	55.68	pk	hor	74.00	3	-18.32
F _{MID}	2440	Transmit	4880	38.22	avg	hor	54.00	3	-15.78
F _{MID}	2440	Transmit	7320	50.34	pk	ver	74.00	3	-23.66
F _{MID}	2440	Transmit	7320	52.57	pk	hor	74.00	3	-21.43
F _{HIGH}	2480	Transmit	2483.5	52.36	pk	ver	74.00	3	-21.64
F _{HIGH}	2480	Transmit	2483.5	38.14	RMS	ver	54.00	3	-15.86
F _{HIGH}	2480	Transmit	2483.5	59.56	pk	hor	74.00	3	-14.44
F _{HIGH}	2480	Transmit	2483.5	44.67	RMS	hor	54.00	3	-09.33
F _{HIGH}	2480	Transmit	2495	54.03	pk	hor	74.00	3	-19.97
F _{HIGH}	2480	Transmit	2495	26.21	RMS	hor	54.00	3	-27.79
F _{HIGH}	2480	Transmit	2495.9	48.04	pk	ver	74.00	3	-25.96
F _{HIGH}	2480	Transmit	2495.9	25.29	RMS	ver	54.00	3	-28.71
F _{HIGH}	2480	Transmit	2497	52.12	pk	hor	74.00	3	-21.88

Test Report No.: G0M-1409-4154-TFC247BL-DUO-V01

Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

F _{HIGH}	2480	Transmit	2497	25.27	RMS	hor	54.00	3	-28.73
F _{HIGH}	2480	Transmit	2500	51.82	pk	ver	74.00	3	-22.18
F _{HIGH}	2480	Transmit	2500	56.89	pk	hor	74.00	3	-17.11
F _{HIGH}	2480	Transmit	2569	51.95	pk	ver	95.00	3	-43.05
F _{HIGH}	2480	Transmit	2569	55.56	pk	hor	95.00	3	-39.44
F _{HIGH}	2480	Transmit	4952	47.57	pk	ver	74.00	3	-26.43
F _{HIGH}	2480	Transmit	4961	55.72	pk	hor	74.00	3	-18.28
F _{HIGH}	2480	Transmit	4961	36.34	avg	hor	54.00	3	-17.66
F _{HIGH}	2480	Transmit	7432	51.70	pk	hor	74.00	3	-22.30
F _{HIGH}	2480	Transmit	7440	48.58	pk	ver	74.00	3	-25.42
Comments: * Physical distance between EUT and measurement antenna.									

3.9 Test Conditions and Results – Receiver radiated emissions

Receiver radiated emissions acc. 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 – 3 th 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				
<div><div><div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><di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Test procedure						
<ol style="list-style-type: none"> 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]	Det.	Limit [μV/m]	Margin [μV/m]
F _{MID}	2440	2788	38.6	pk	54	-15.40
Comments: * Physical distance between EUT and measurement antenna. ** Emission level corresponds to ambient noise floor						

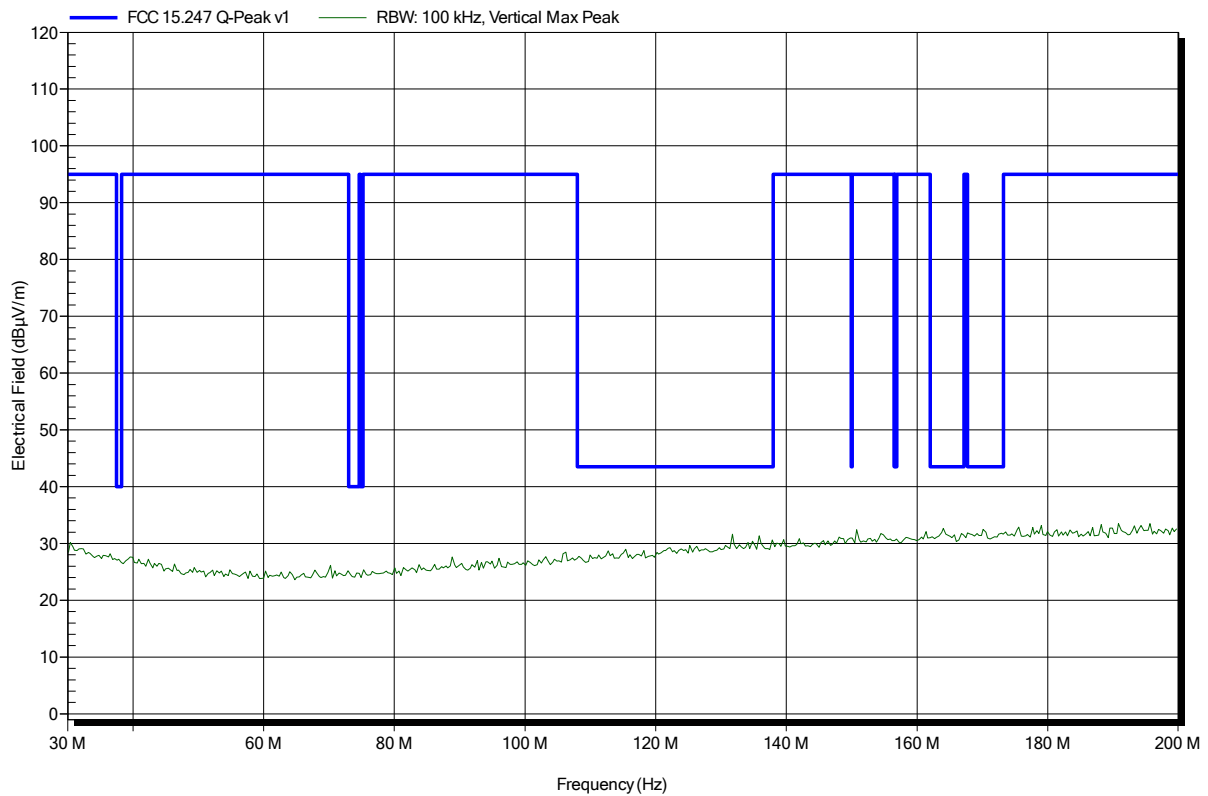
ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant:	Amor Gummiwaren GmbH
EUT Name:	electric device
Model:	Duo
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.0VDC battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; 2480MHz, 1Mbps, Pmax
Test Date:	2015-01-07
Note:	maximum

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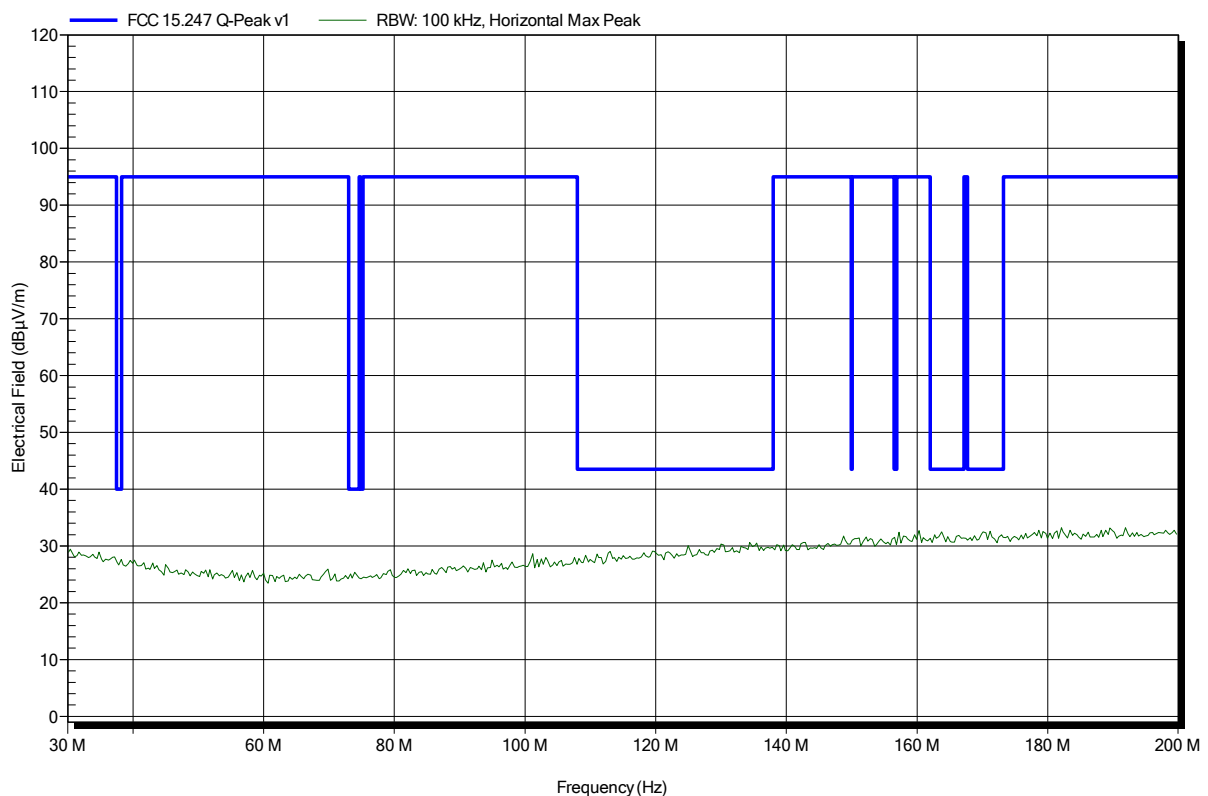


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant:	Amor Gummiwaren GmbH
EUT Name:	electric device
Model:	Duo
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.0VDC battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; 2480MHz, 1Mbps, Pmax
Test Date:	2015-01-07
Note:	maximum

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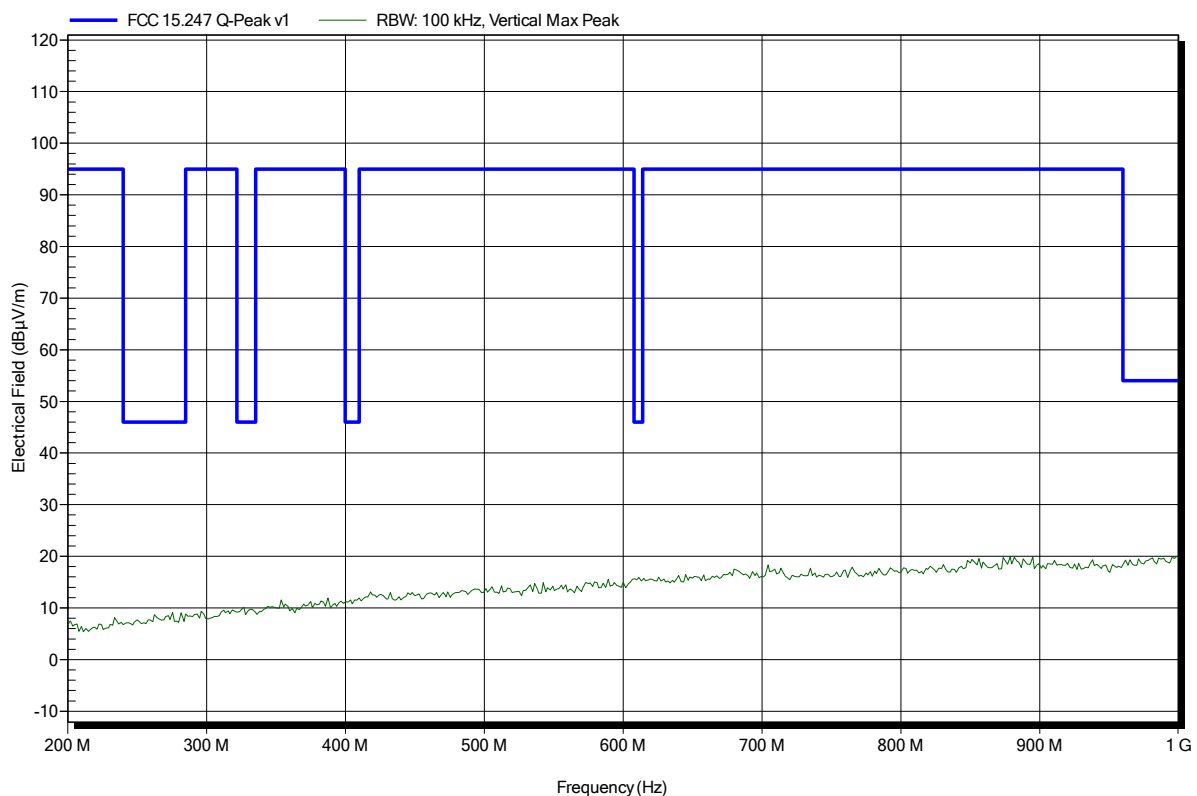


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant:	Amor Gummiwaren GmbH
EUT Name:	electric device
Model:	Duo
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.0VDC battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; 2480MHz, 1Mbps, Pmax
Test Date:	2015-01-06
Note:	maximum

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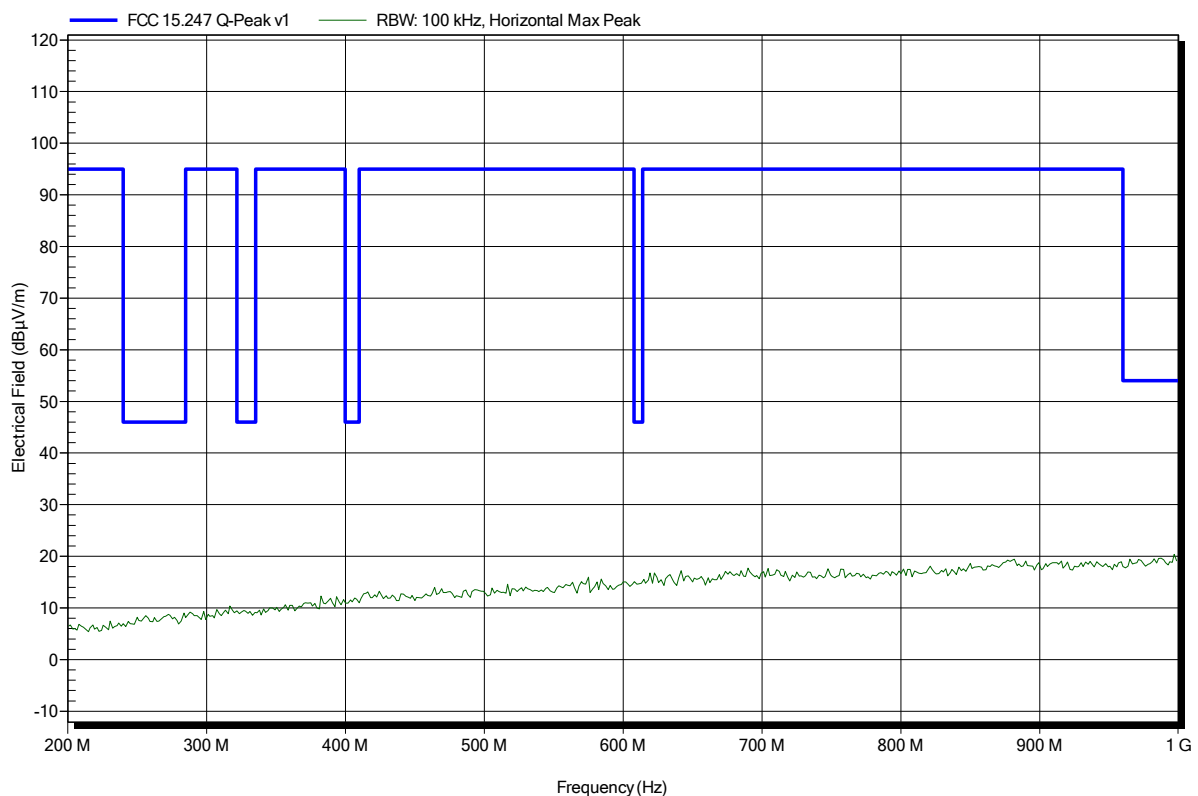


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant:	Amor Gummiwaren GmbH
EUT Name:	electric device
Model:	Duo
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.0VDC battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; 2480MHz, 1Mbps, Pmax
Test Date:	2015-01-07
Note:	maximum

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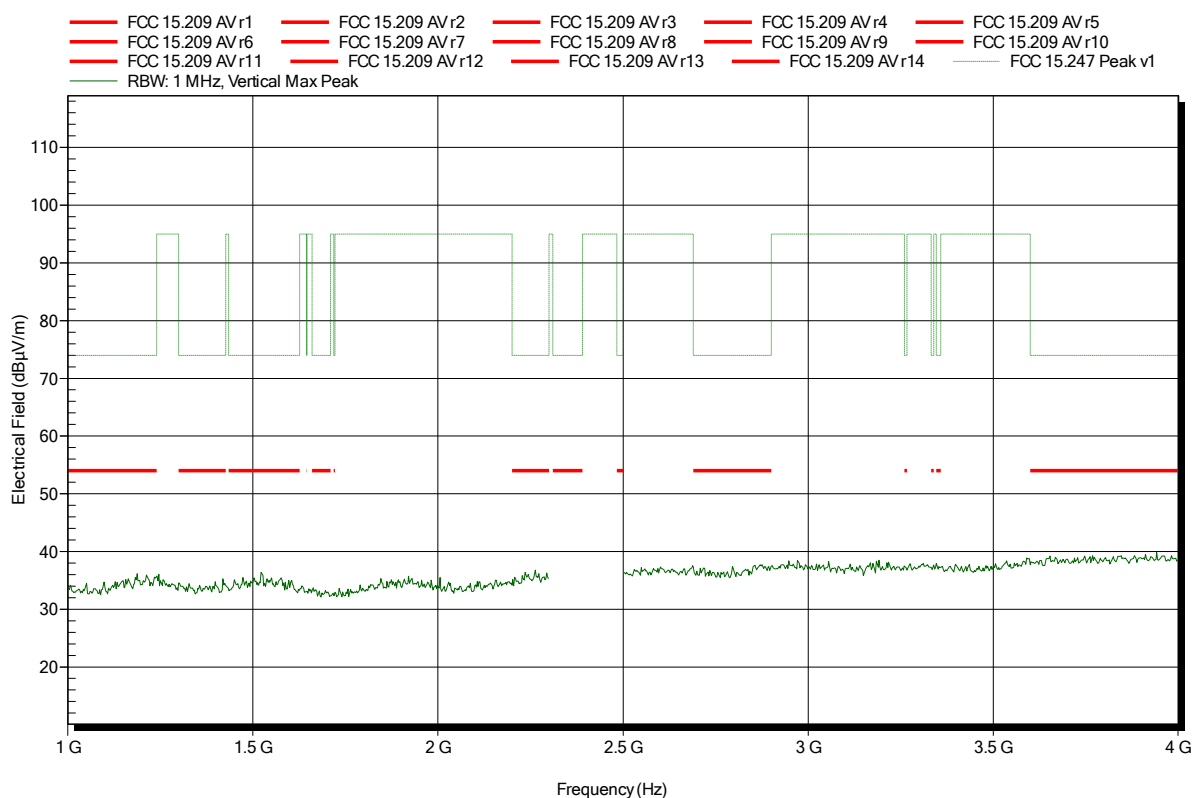


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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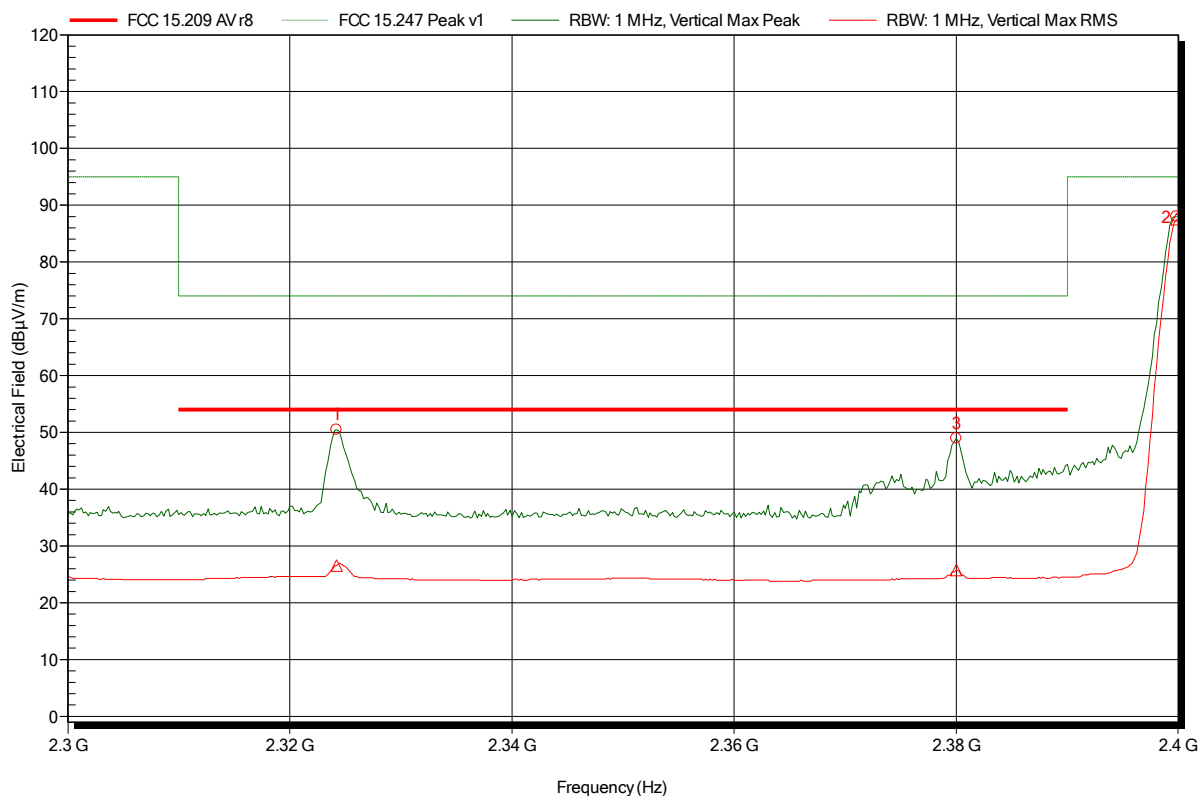


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note: lower bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.324 GHz	50.49 dBµV/m	74 dBµV/m	-23.51 dB	Pass
2.38 GHz	48.95 dBµV/m	74 dBµV/m	-25.05 dB	Pass
2.4 GHz	88 dBµV/m	95 dBµV/m	-7 dB	Pass

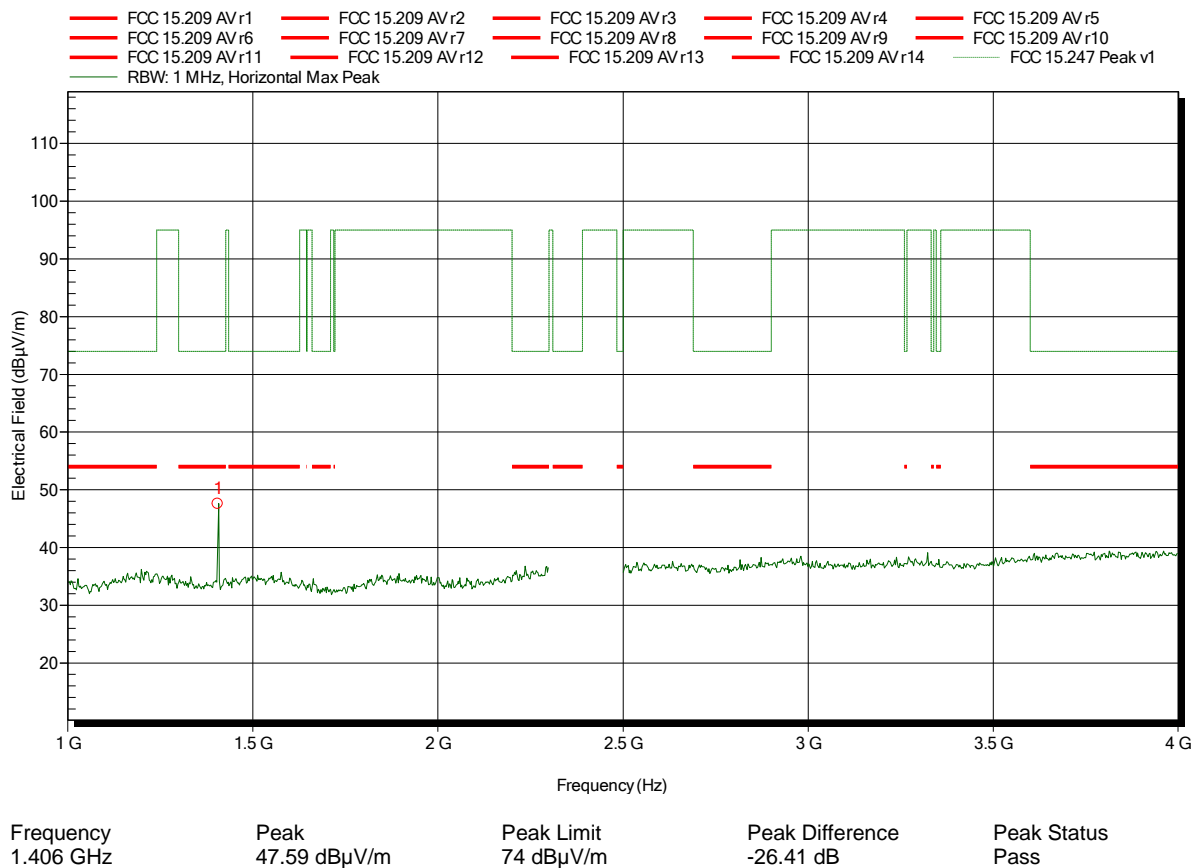
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.324 GHz	26.53 dBµV/m	54 dBµV/m	-27.47 dB	Pass
2.38 GHz	25.75 dBµV/m	54 dBµV/m	-28.25 dB	Pass
2.4 GHz	87.51 dBµV/m			

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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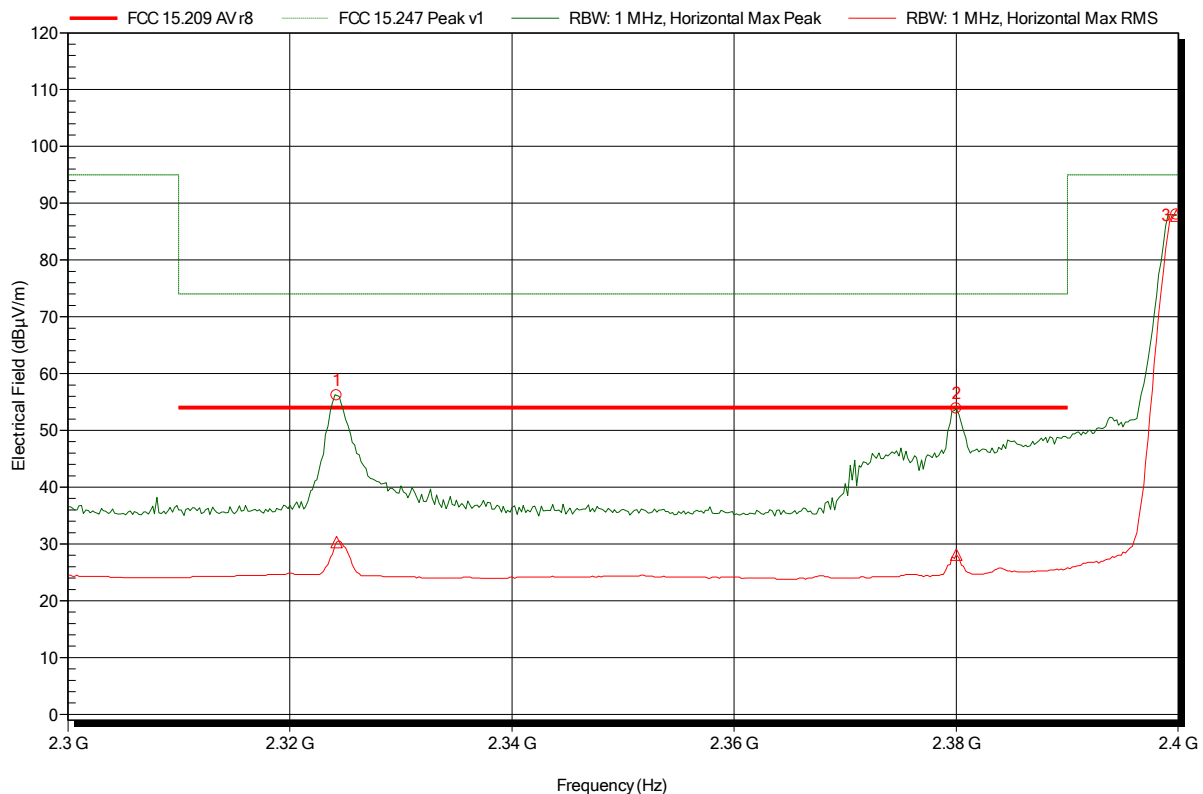


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note: lower bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.324 GHz	56.18 dBµV/m	74 dBµV/m	-17.82 dB	Pass
2.38 GHz	53.87 dBµV/m	74 dBµV/m	-20.13 dB	Pass
2.4 GHz	88.01 dBµV/m	95 dBµV/m	-6.99 dB	Pass

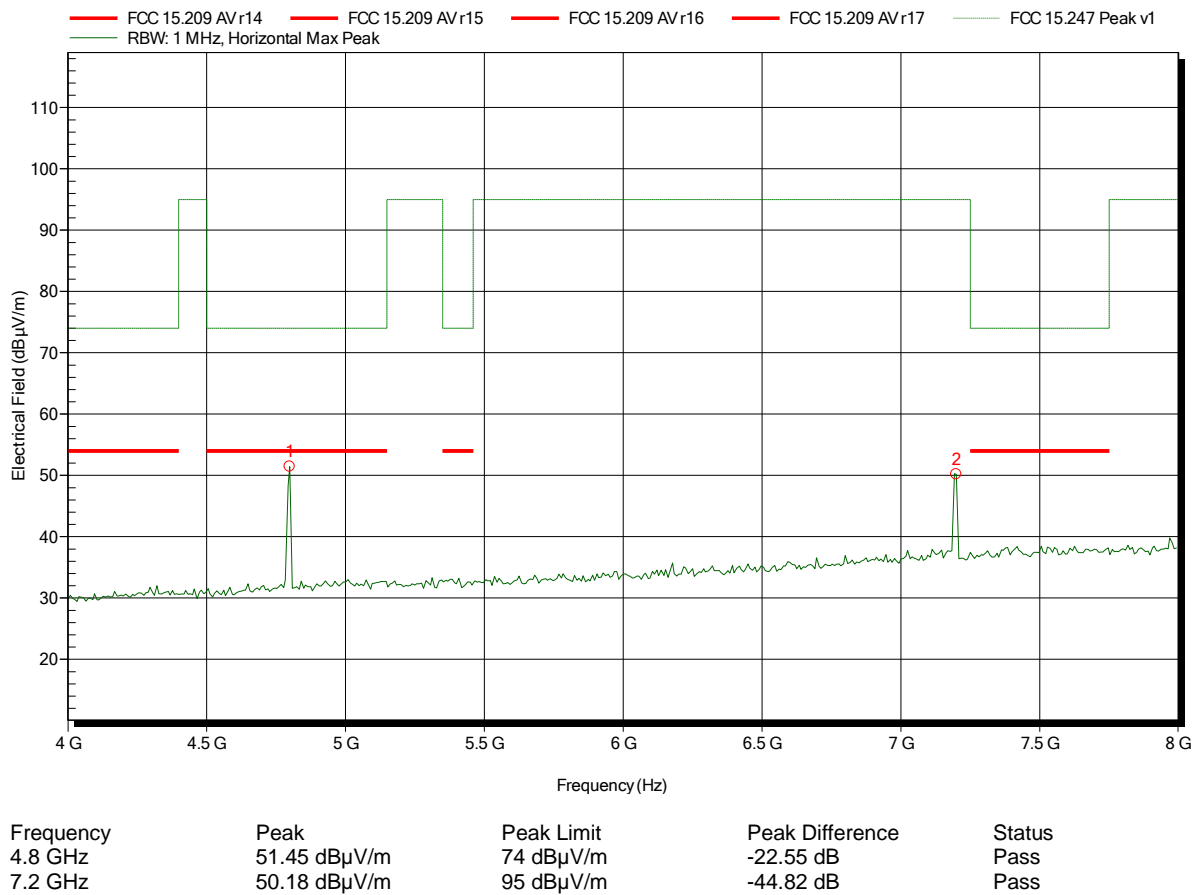
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.324 GHz	30.36 dBµV/m	54 dBµV/m	-23.64 dB	Pass
2.38 GHz	28.12 dBµV/m	54 dBµV/m	-25.88 dB	Pass
2.4 GHz	87.82 dBµV/m			

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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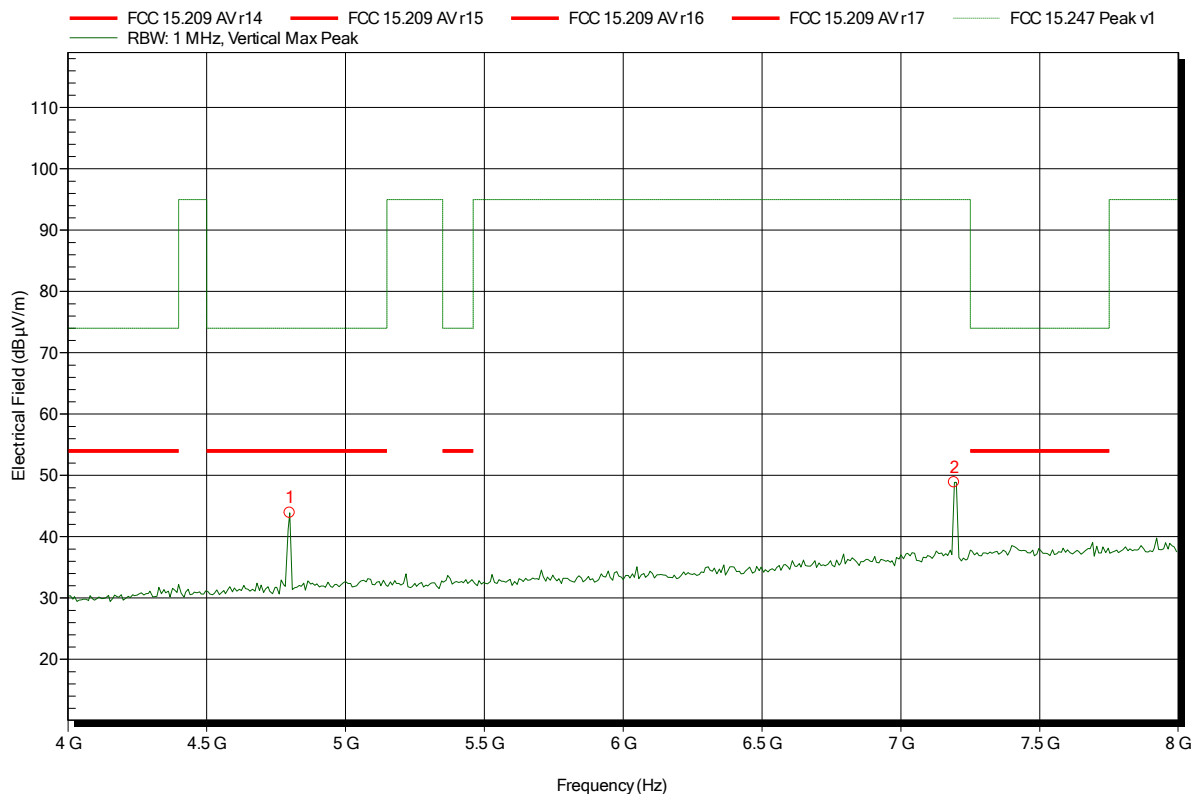


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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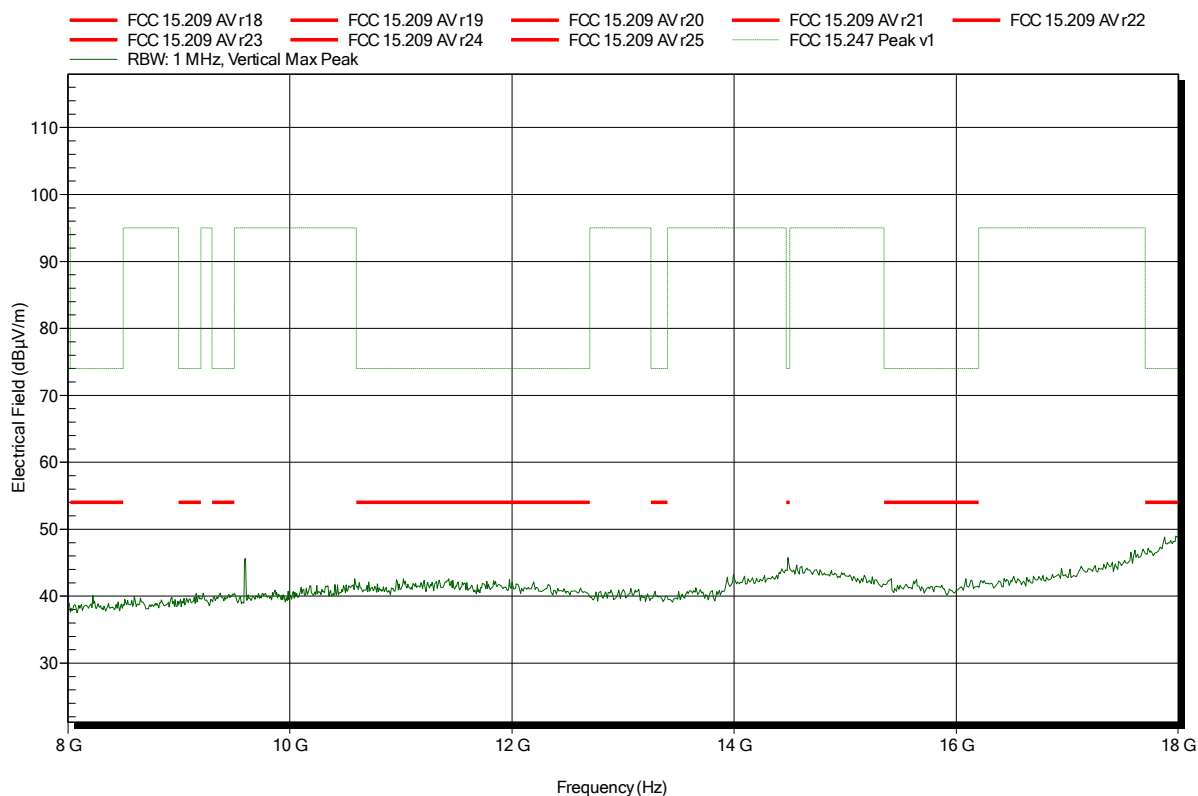
Frequency	Peak	Peak Limit	Peak Difference	Status
4.8 GHz	43.92 dBµV/m	74 dBµV/m	-30.08 dB	Pass
7.192 GHz	48.88 dBµV/m	95 dBµV/m	-46.12 dB	Pass

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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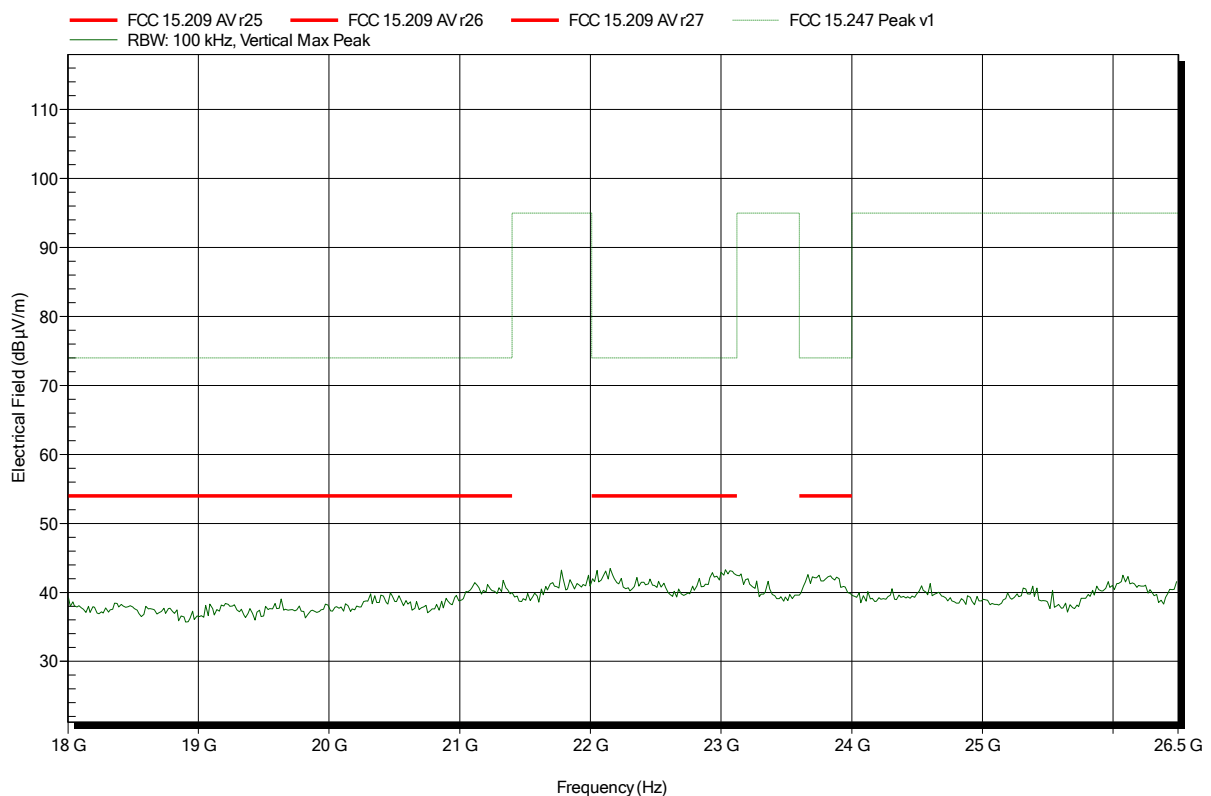


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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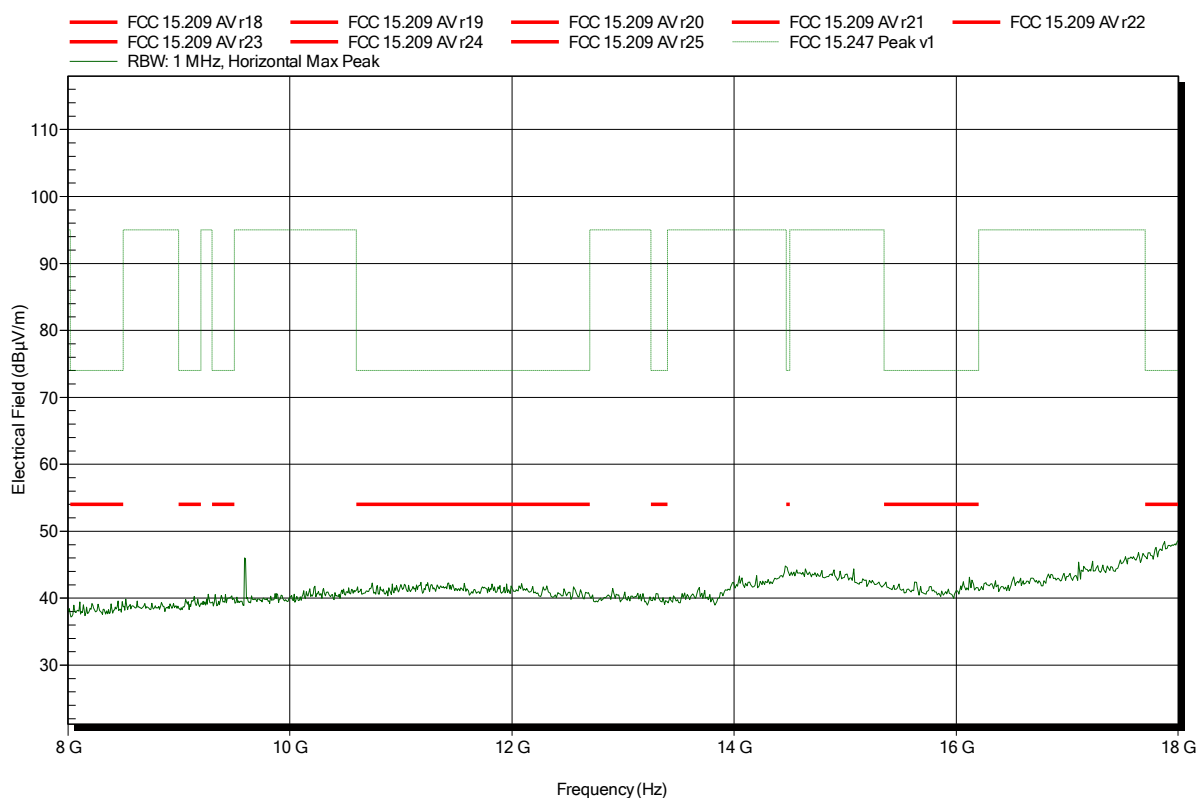


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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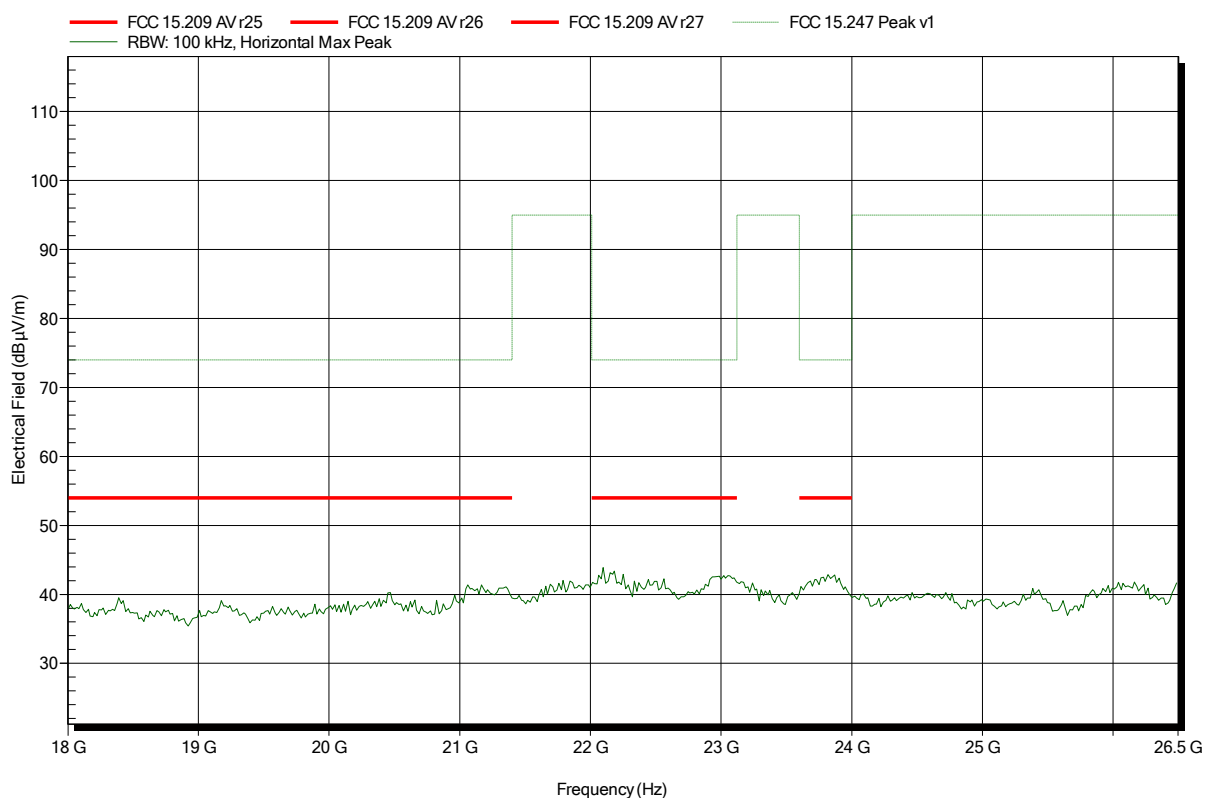


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2402MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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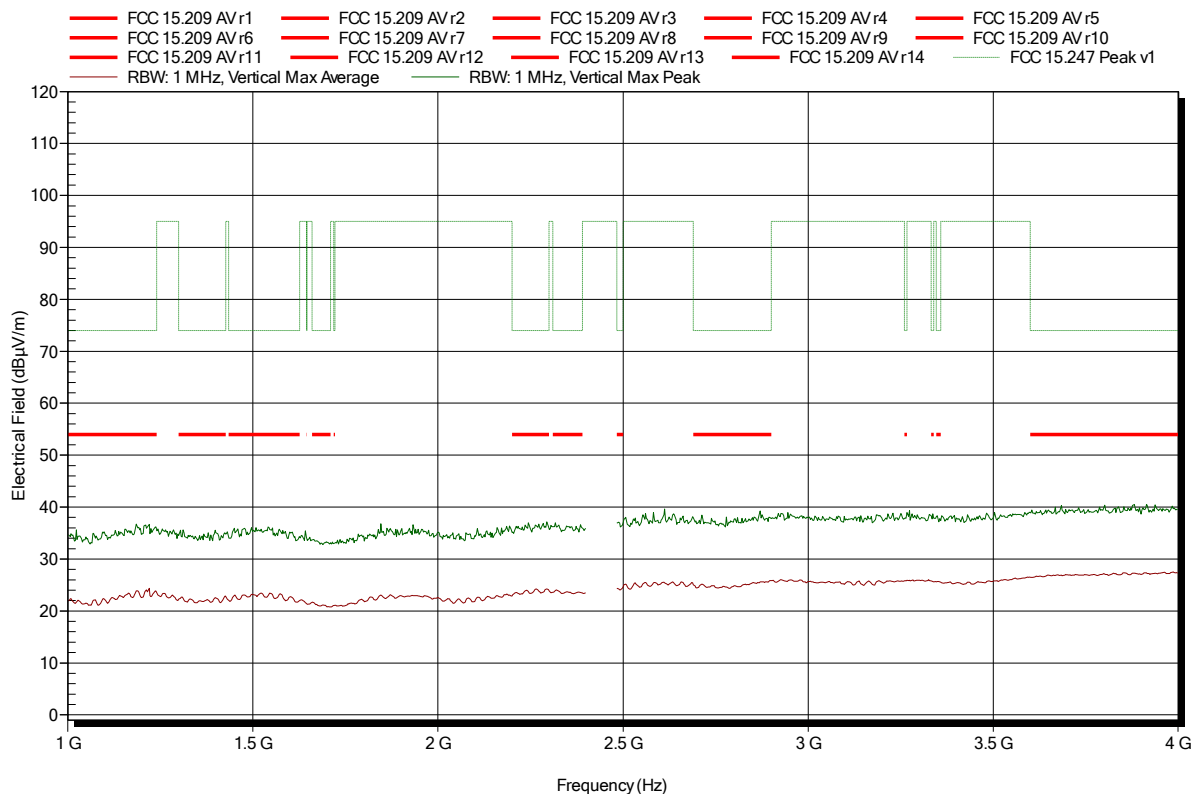


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 2440MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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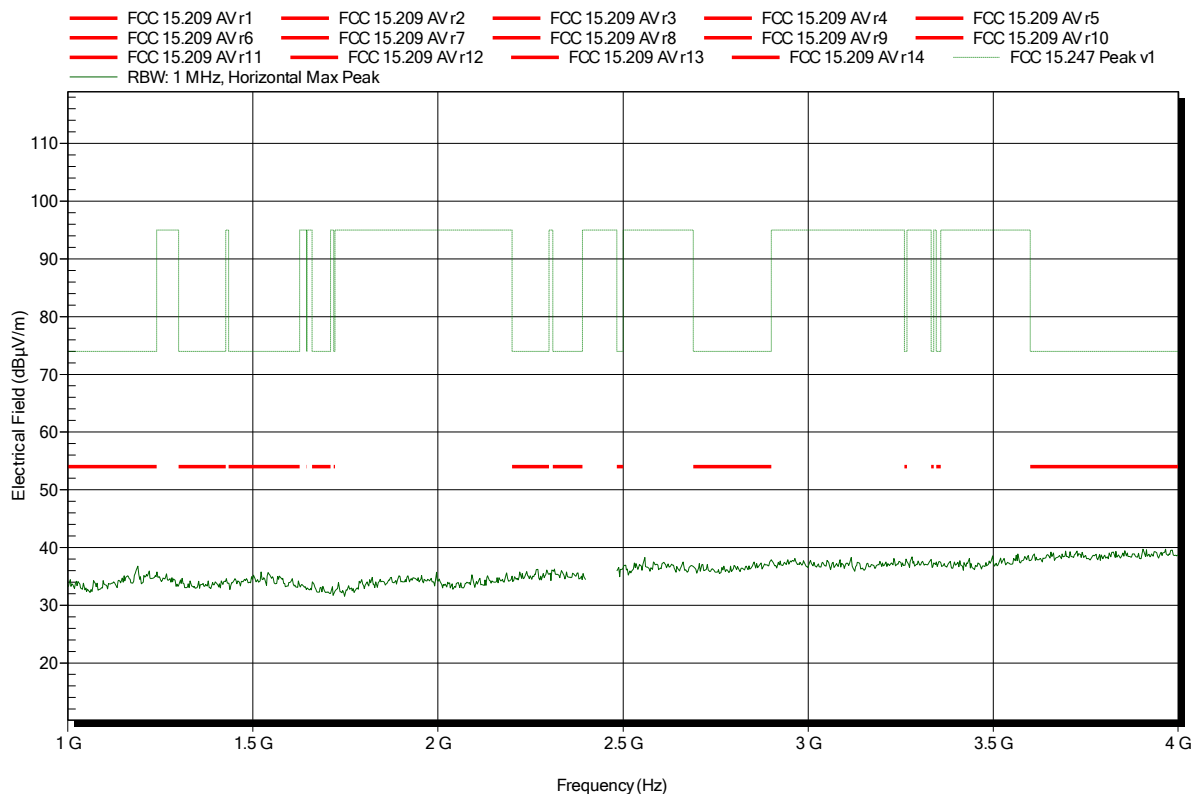


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 2440MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

Index 216

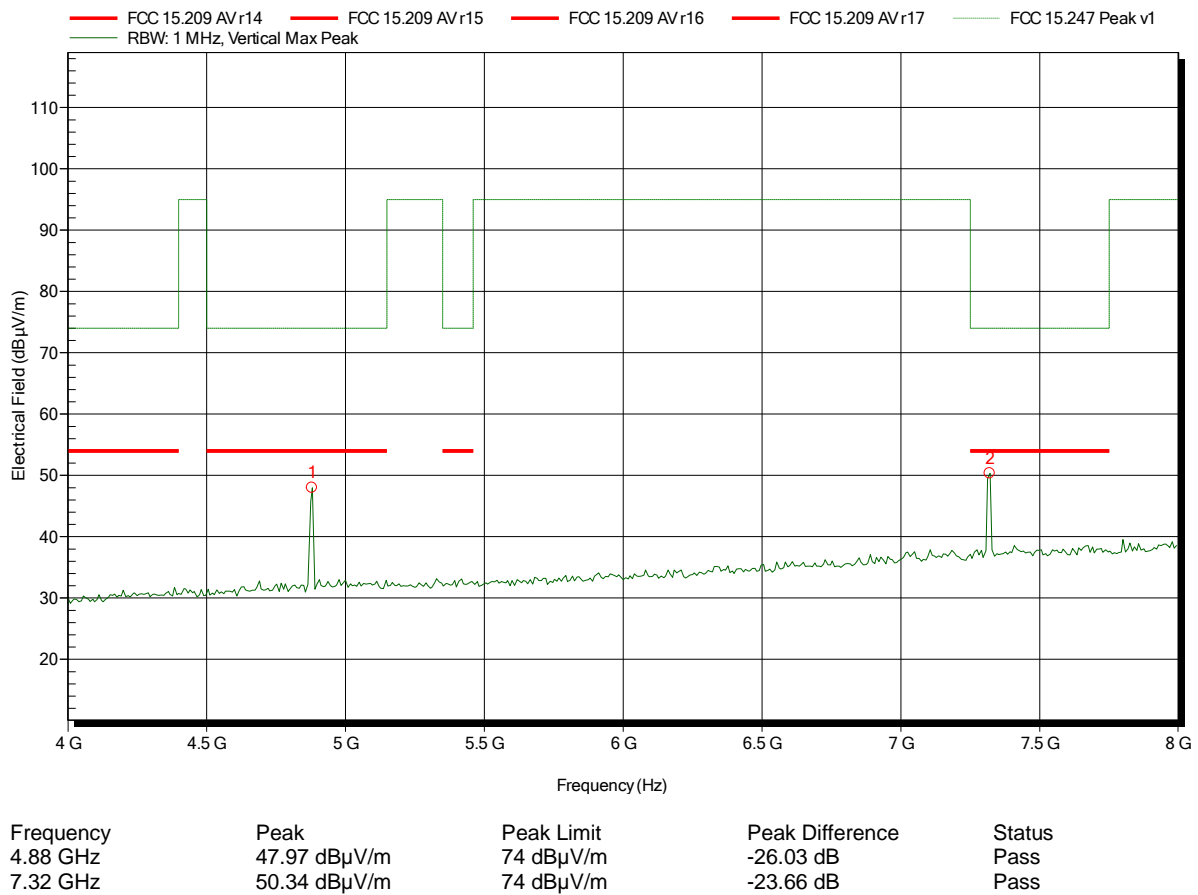


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2440MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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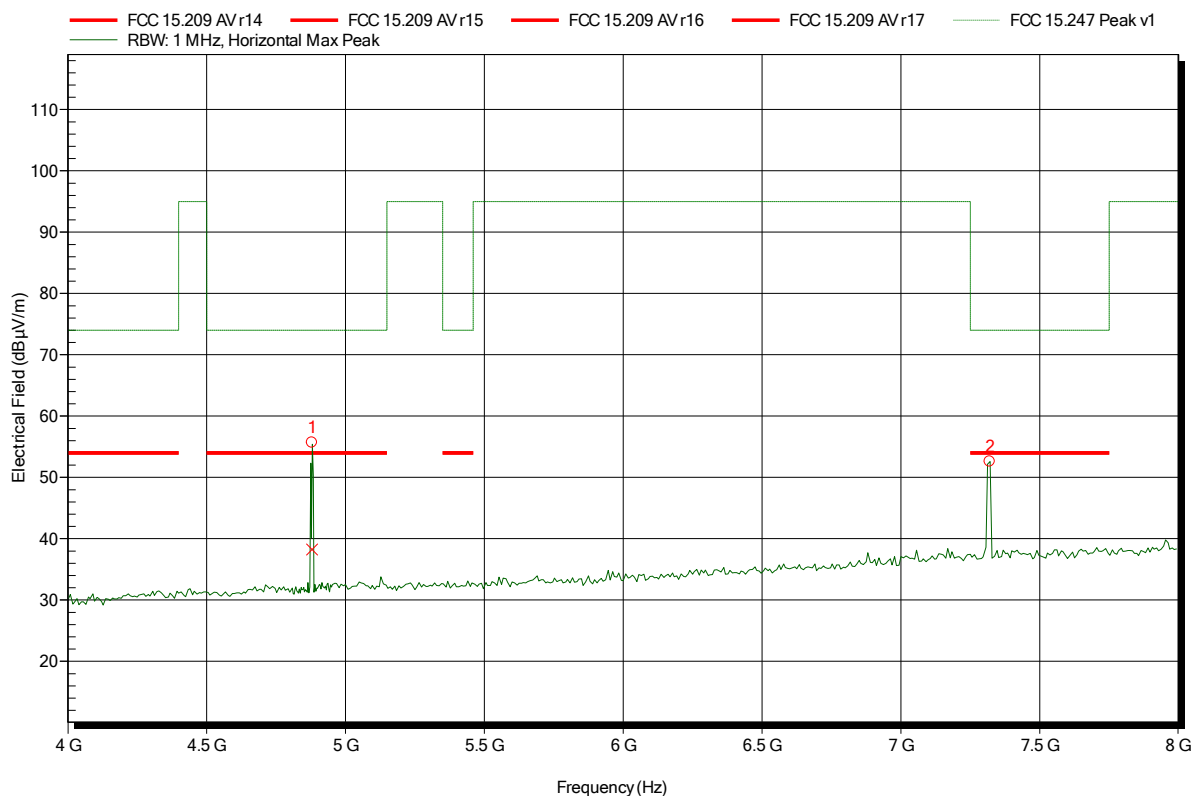


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2440MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Status
4.88 GHz	55.68 dBµV/m	74 dBµV/m	-18.32 dB	Pass
7.32 GHz	52.57 dBµV/m	74 dBµV/m	-21.43 dB	Pass

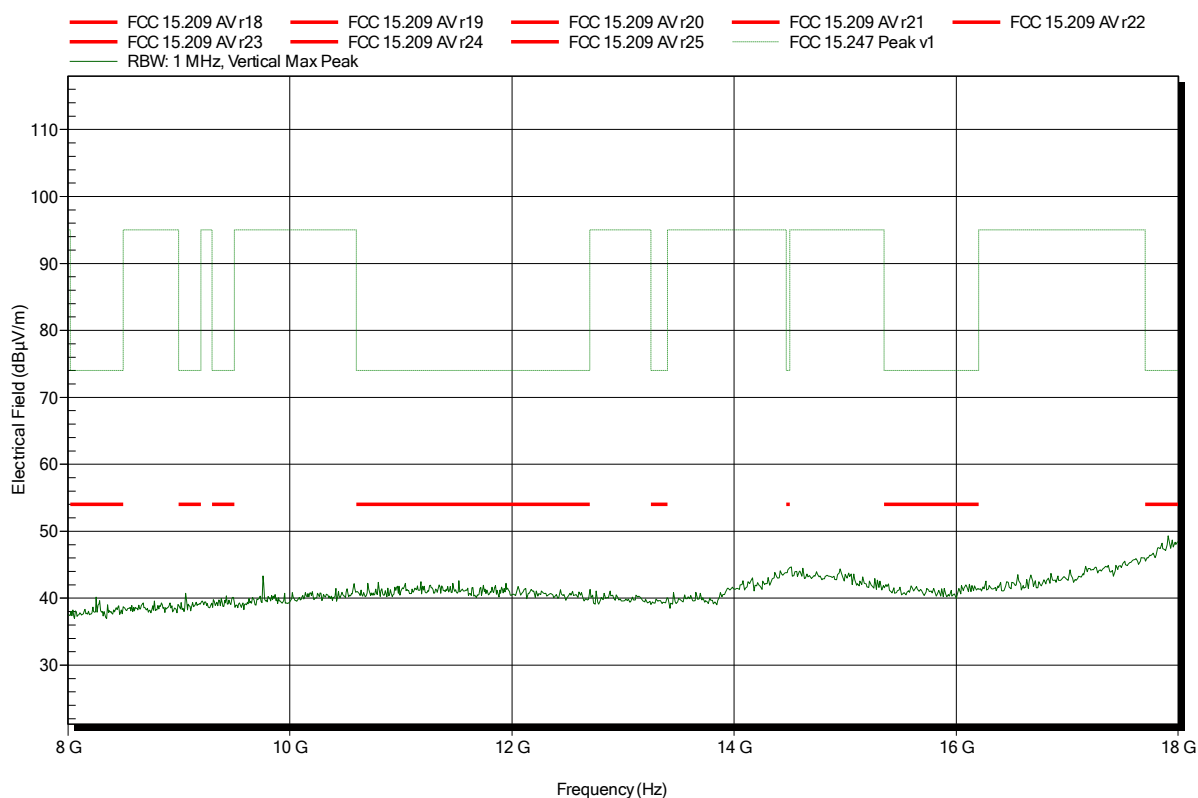
Frequency	Average	Average Limit	Average Difference	Average Status
4.88 GHz	38.22 dBµV/m	54 dBµV/m	-15.78 dB	Pass
7.32 GHz				

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2440MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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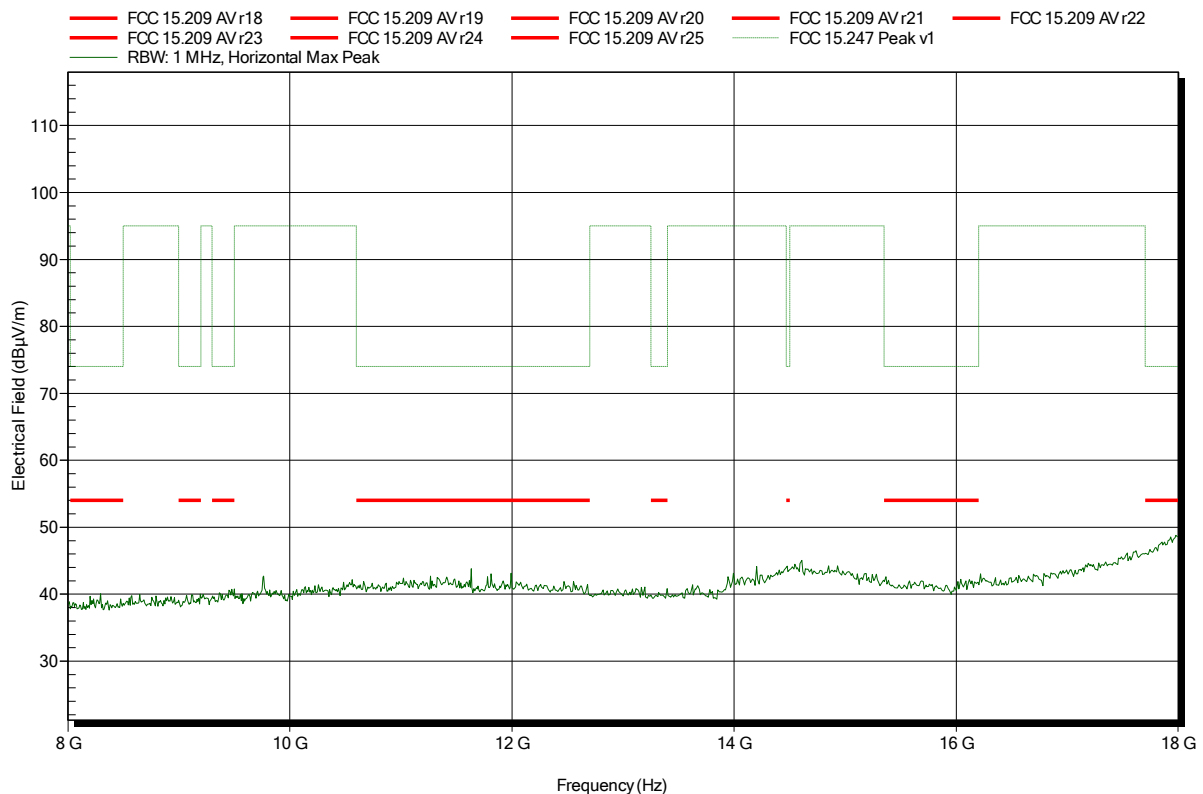


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2440MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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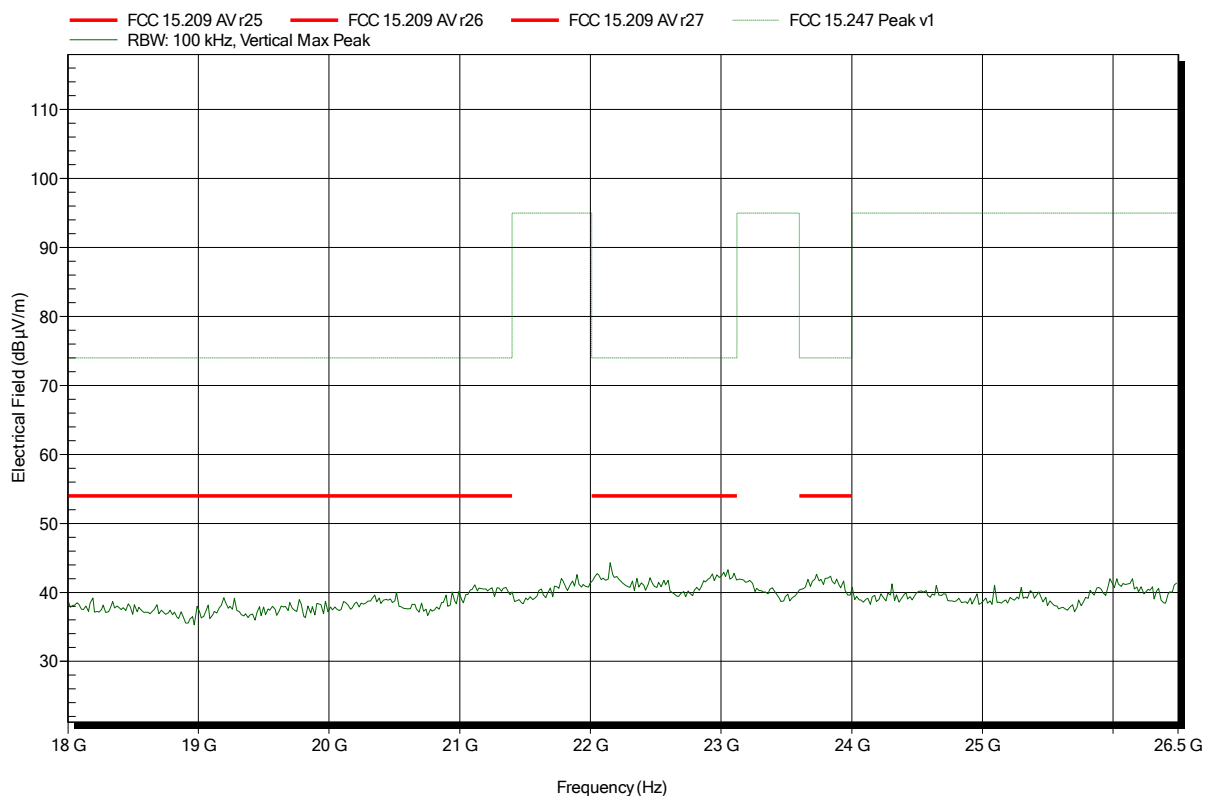


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2440MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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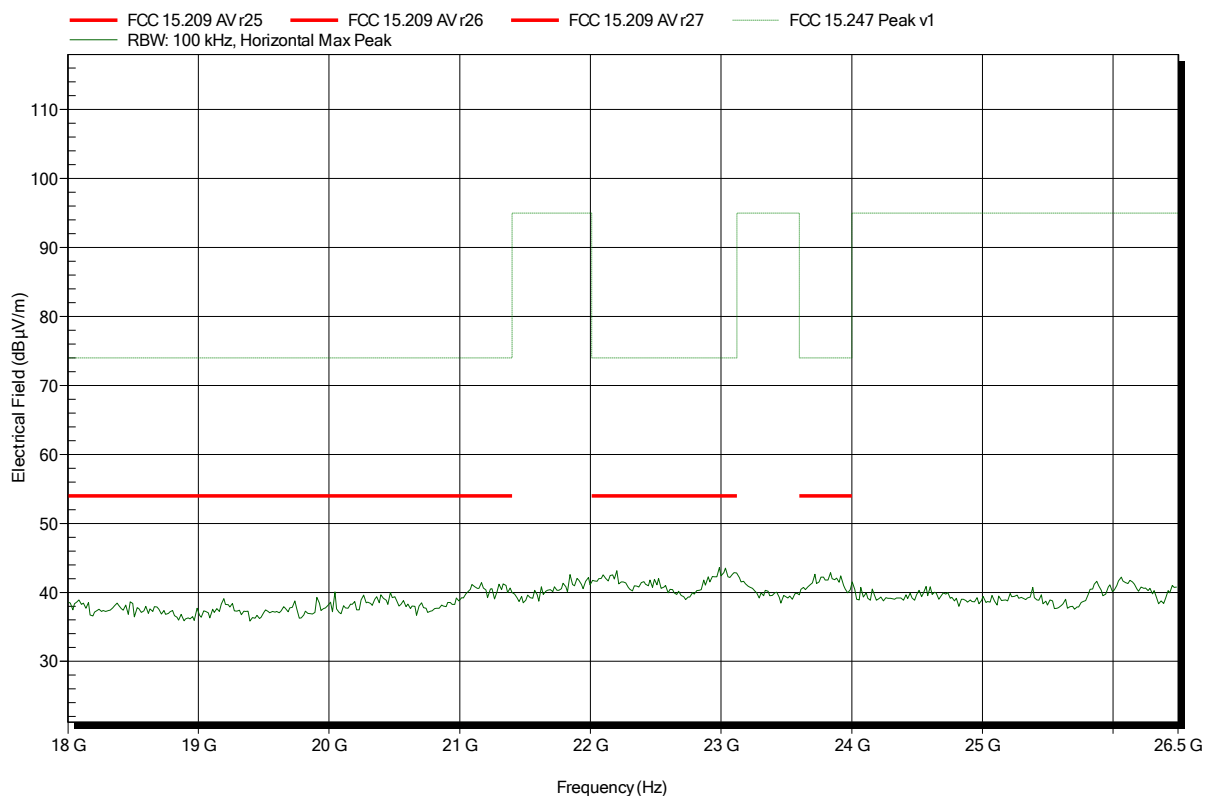


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2440MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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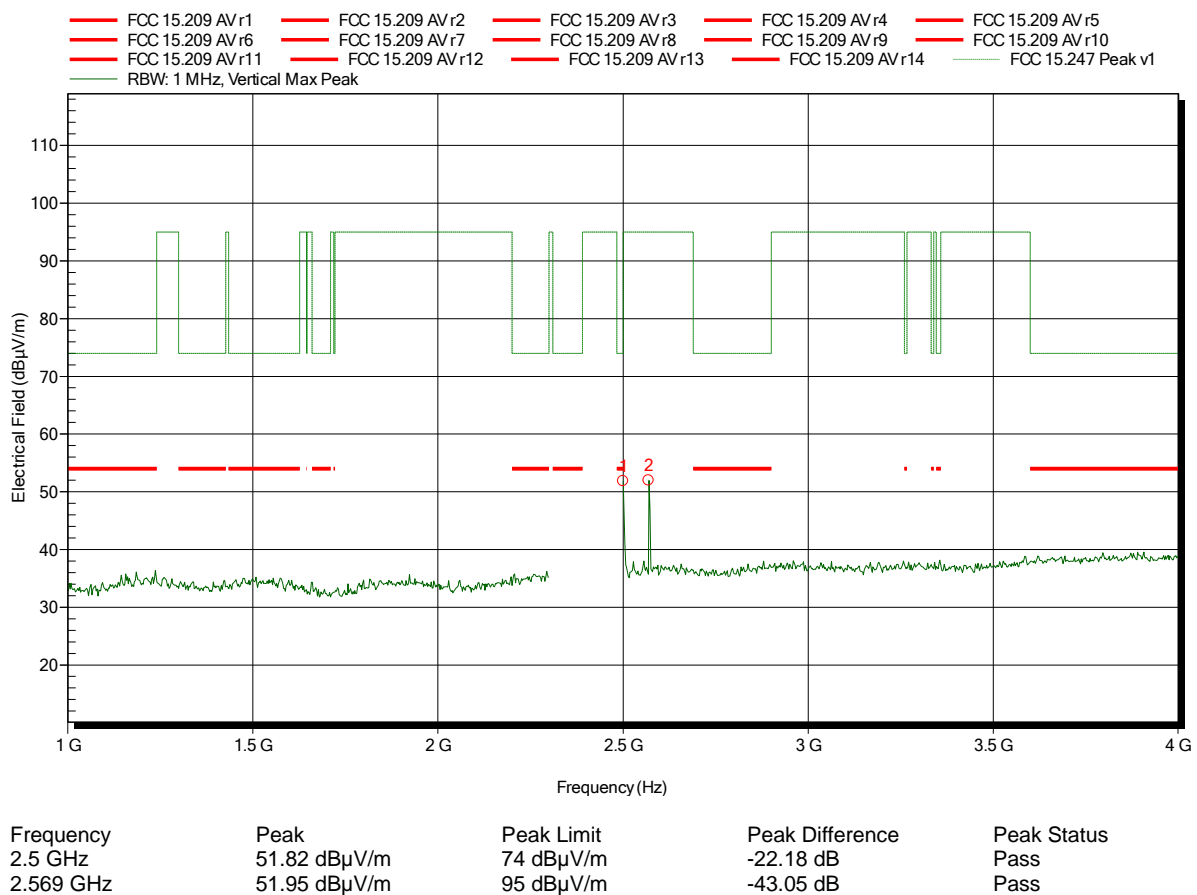


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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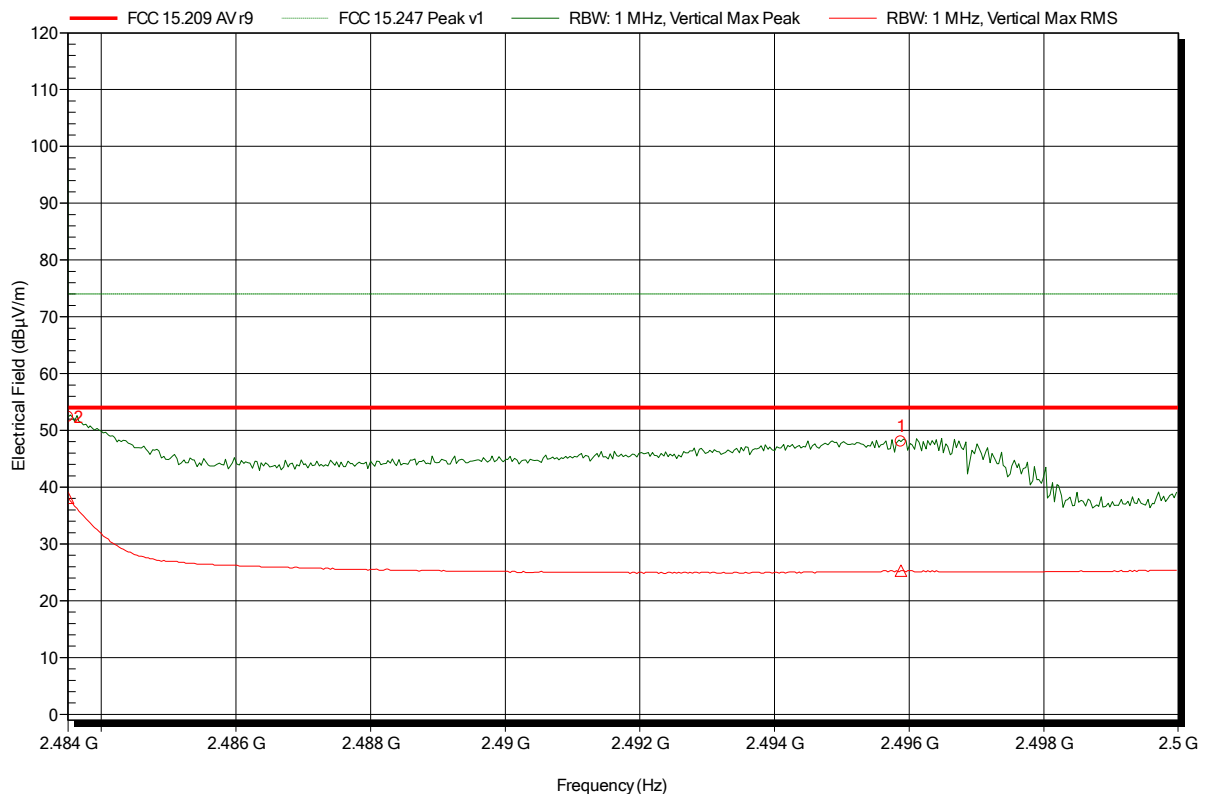


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note: upper bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	52.36 dBµV/m	74 dBµV/m	-21.64 dB	Pass
2.4959 GHz	48.04 dBµV/m	74 dBµV/m	-25.96 dB	Pass

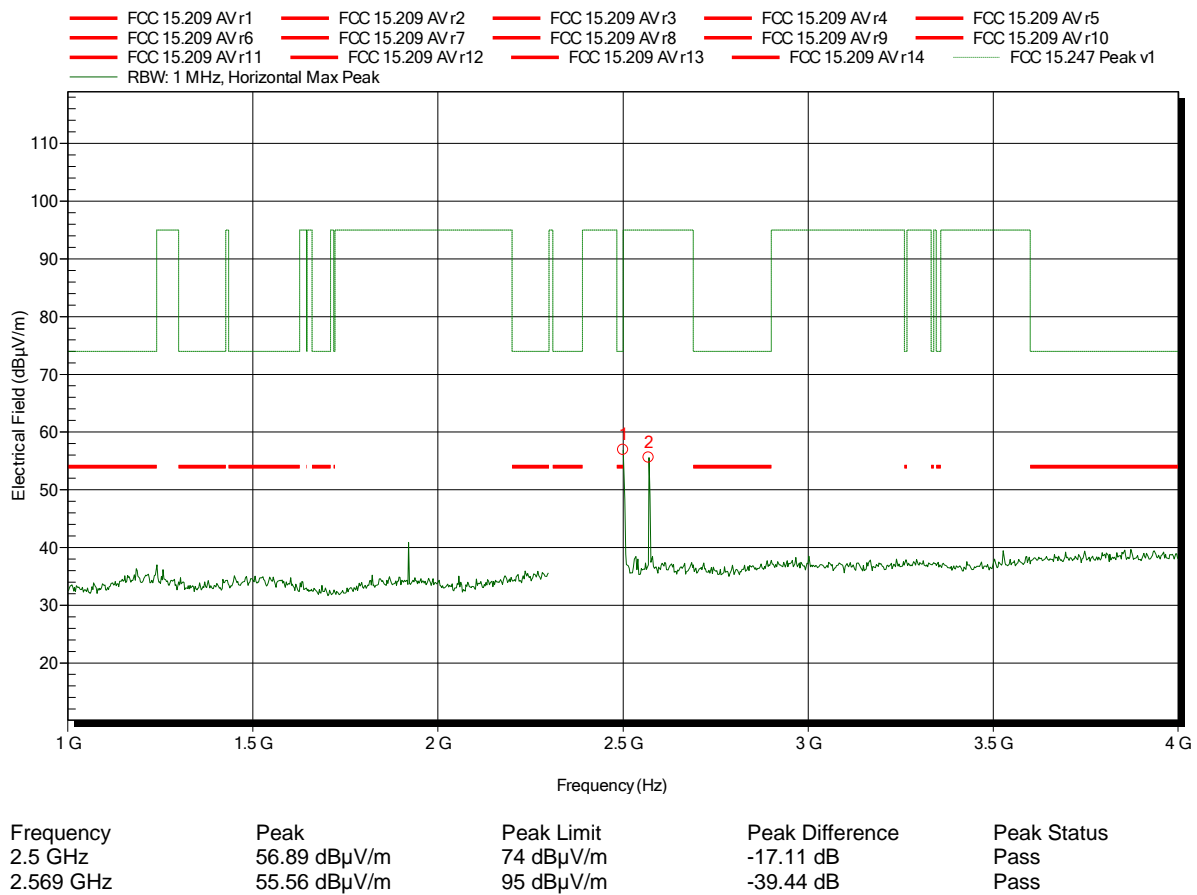
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	38.14 dBµV/m	54 dBµV/m	-15.86 dB	Pass
2.4959 GHz	25.29 dBµV/m	54 dBµV/m	-28.71 dB	Pass

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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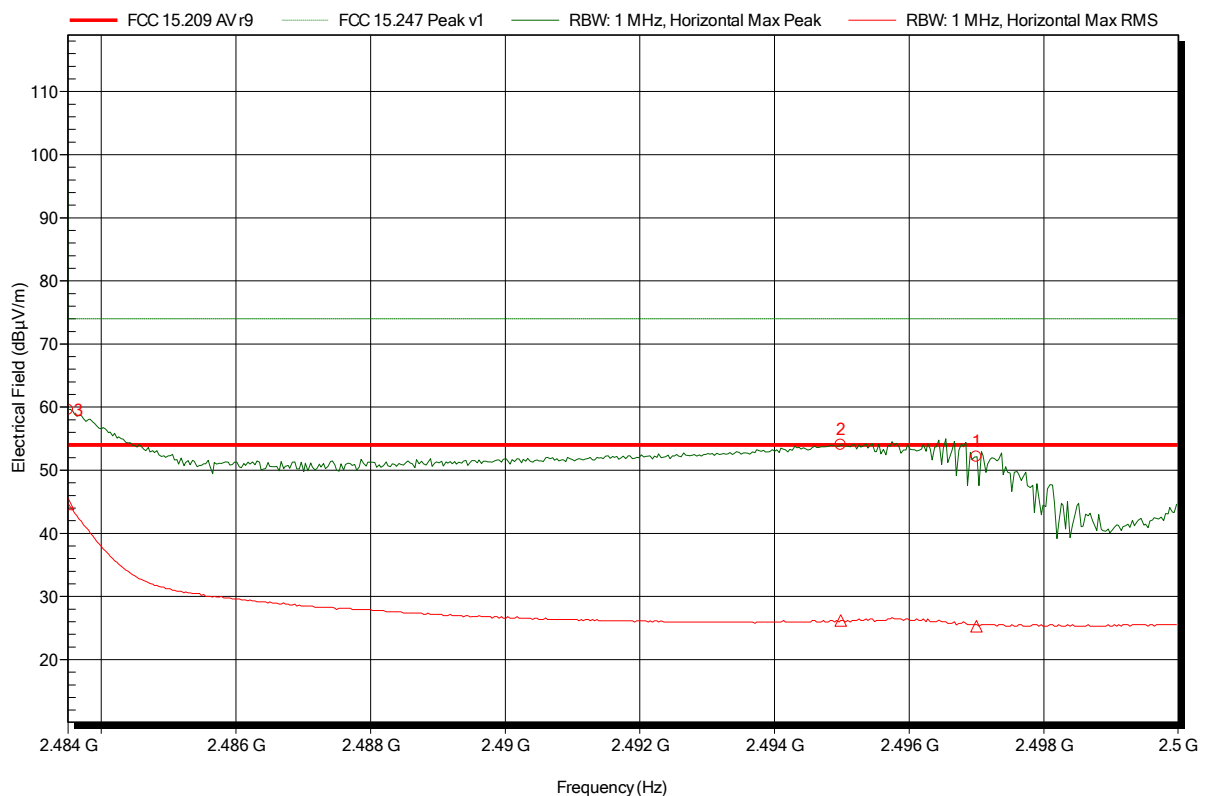


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note: upper bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	59.56 dBµV/m	74 dBµV/m	-14.44 dB	Pass
2.495 GHz	54.03 dBµV/m	74 dBµV/m	-19.97 dB	Pass
2.497 GHz	52.12 dBµV/m	74 dBµV/m	-21.88 dB	Pass

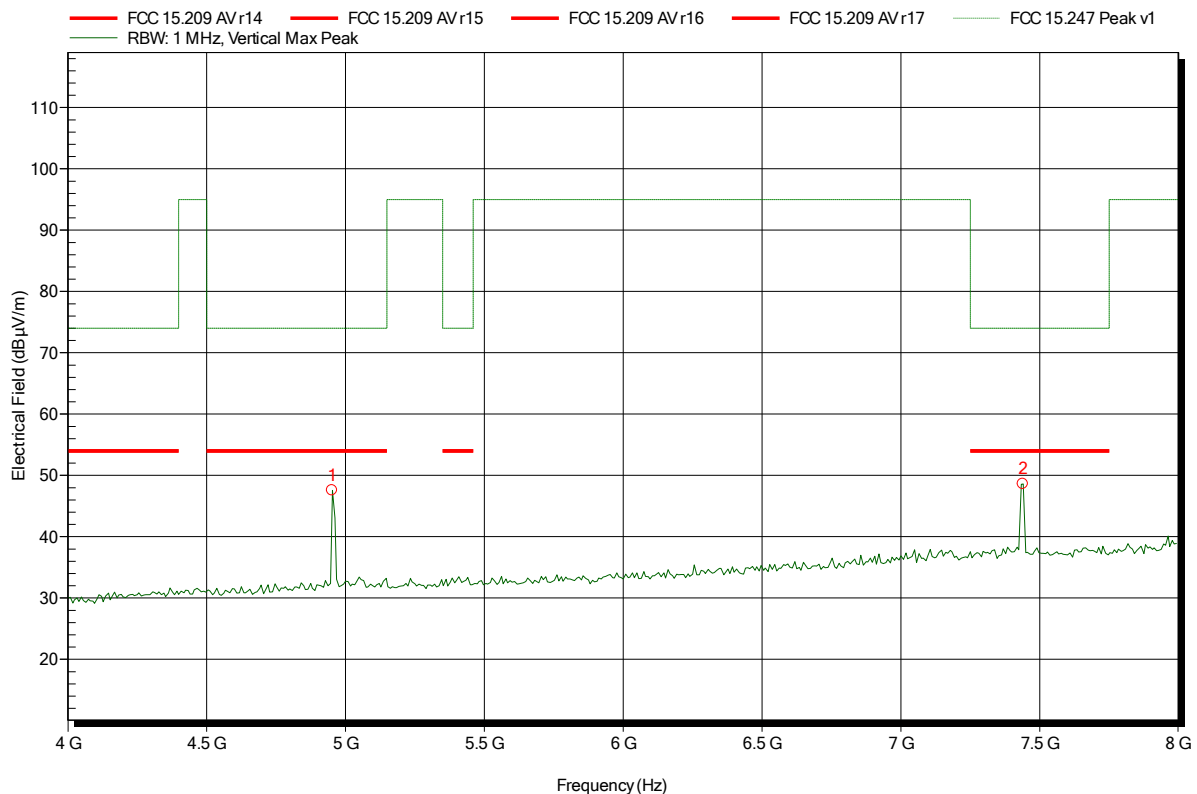
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	44.67 dBµV/m	54 dBµV/m	-9.33 dB	Pass
2.495 GHz	26.21 dBµV/m	54 dBµV/m	-27.79 dB	Pass
2.497 GHz	25.27 dBµV/m	54 dBµV/m	-28.73 dB	Pass

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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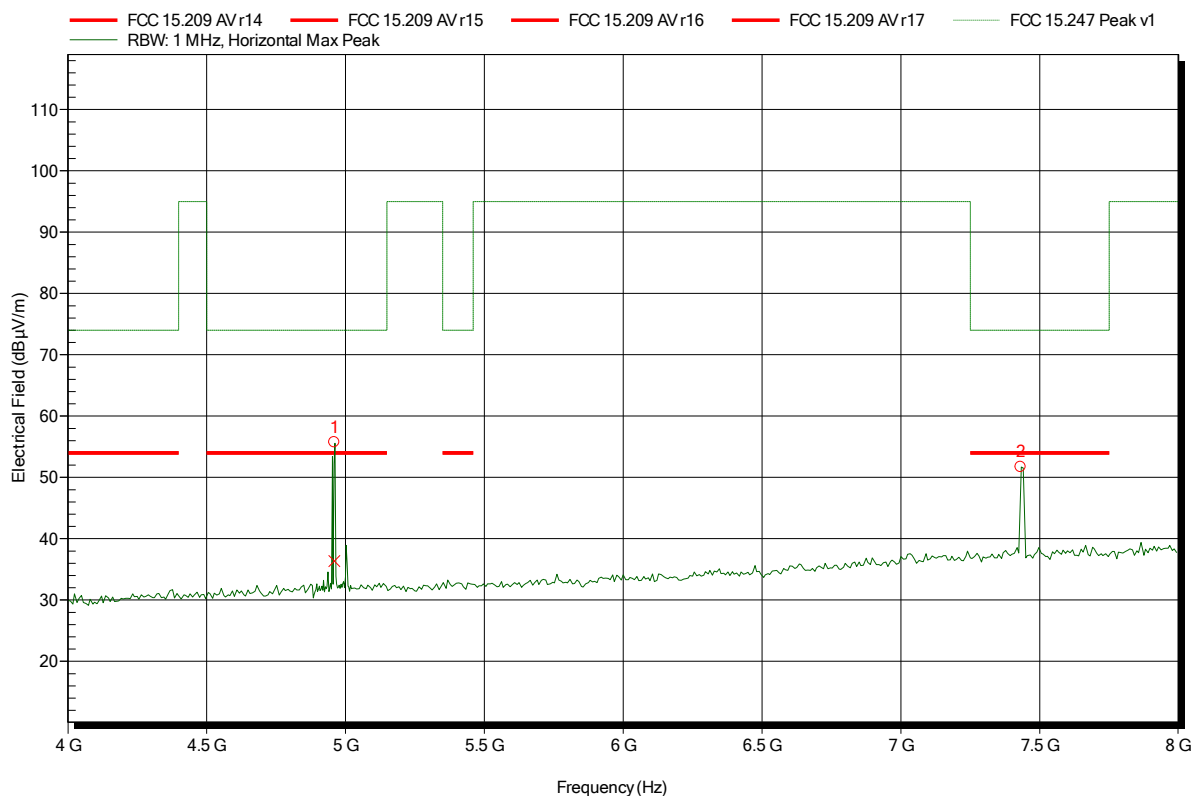
Frequency	Peak	Peak Limit	Peak Difference	Status
4.952 GHz	47.57 dBµV/m	74 dBµV/m	-26.43 dB	Pass
7.44 GHz	48.58 dBµV/m	74 dBµV/m	-25.42 dB	Pass

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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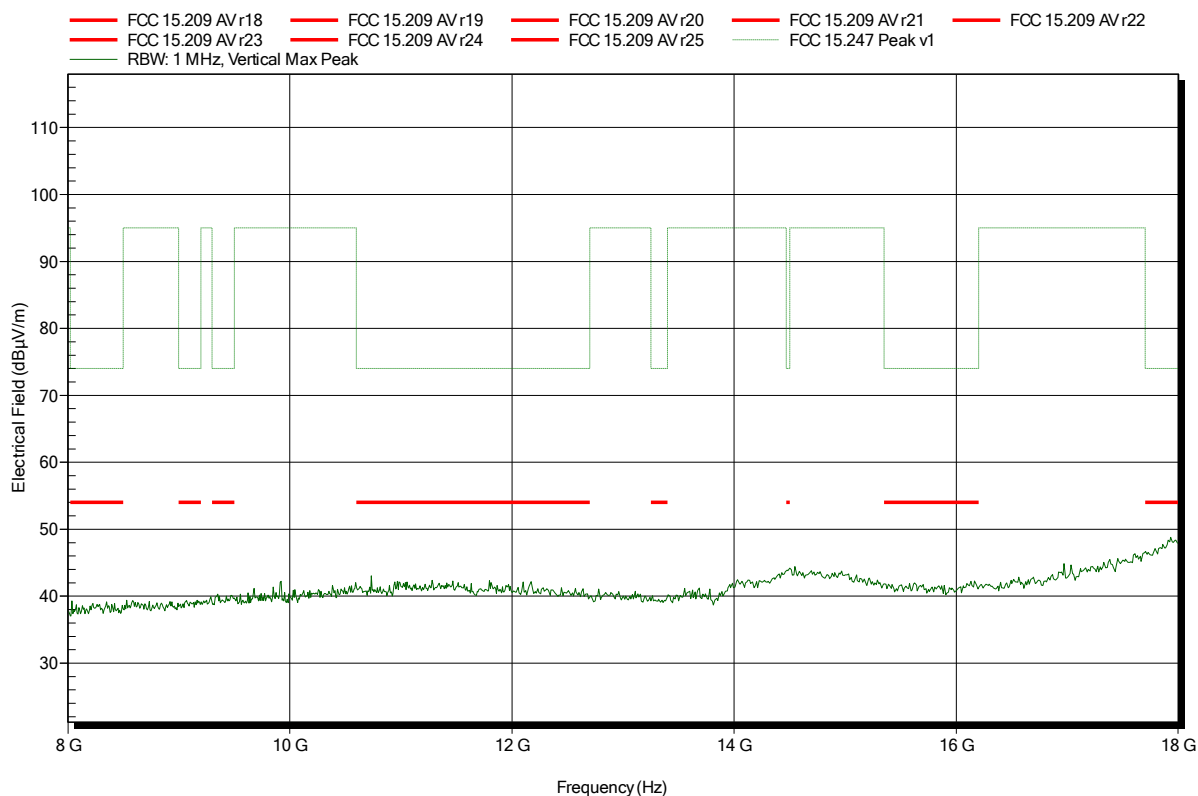
Frequency	Peak	Peak Limit	Peak Difference	Status
4.961 GHz	55.72 dBµV/m	74 dBµV/m	-18.28 dB	Pass
7.432 GHz	51.7 dBµV/m	74 dBµV/m	-22.3 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
4.961 GHz	36.34 dBµV/m	54 dBµV/m	-17.66 dB	Pass
7.432 GHz				

Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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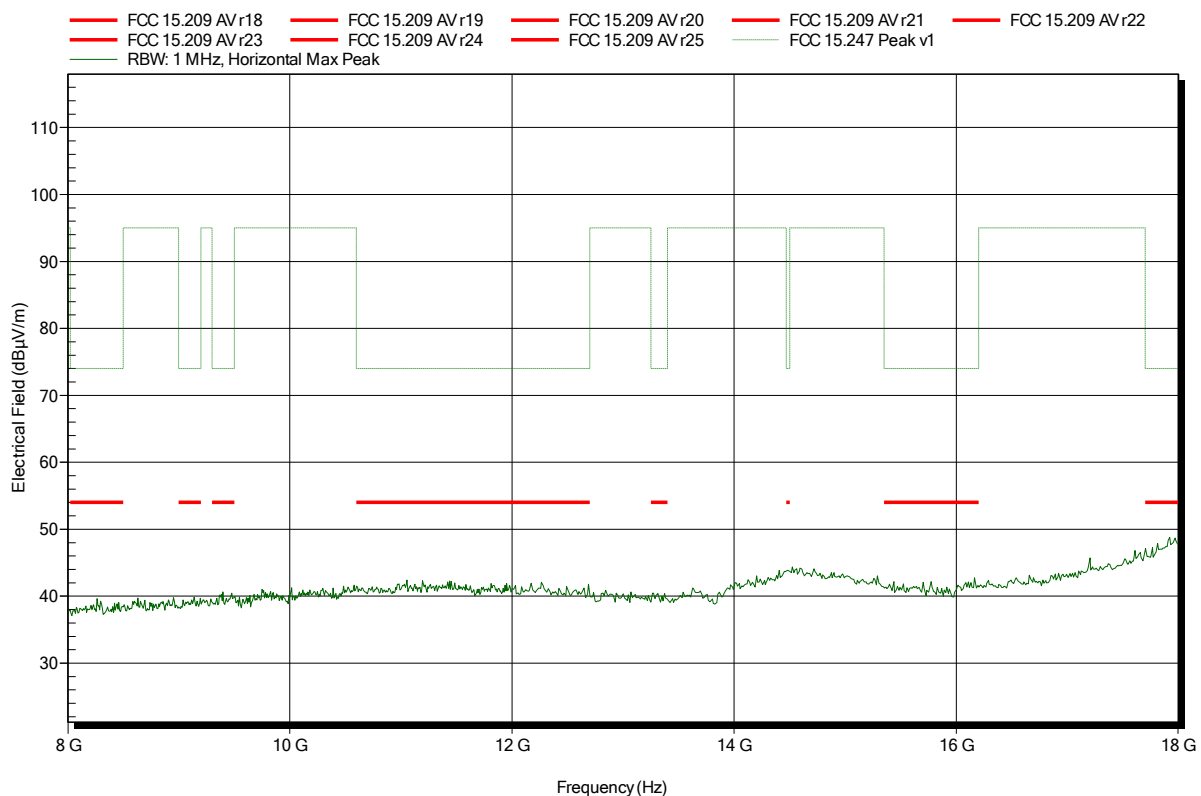


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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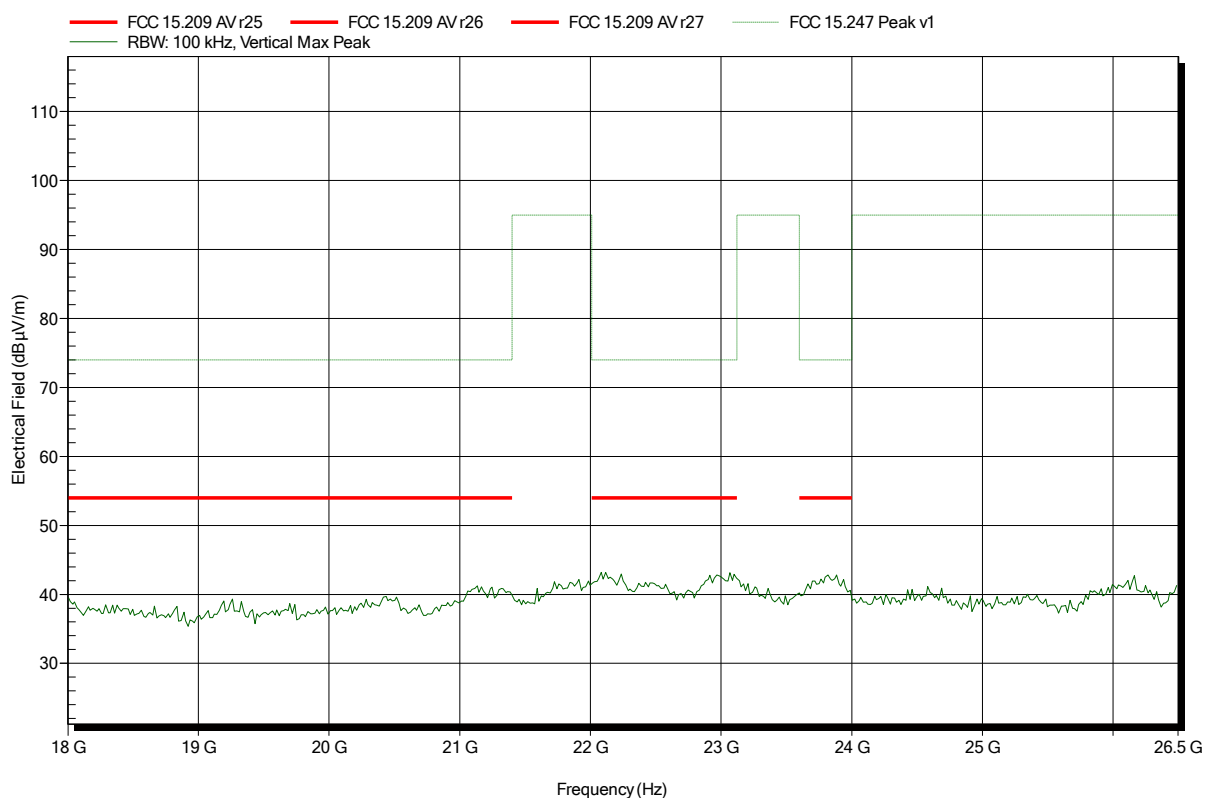


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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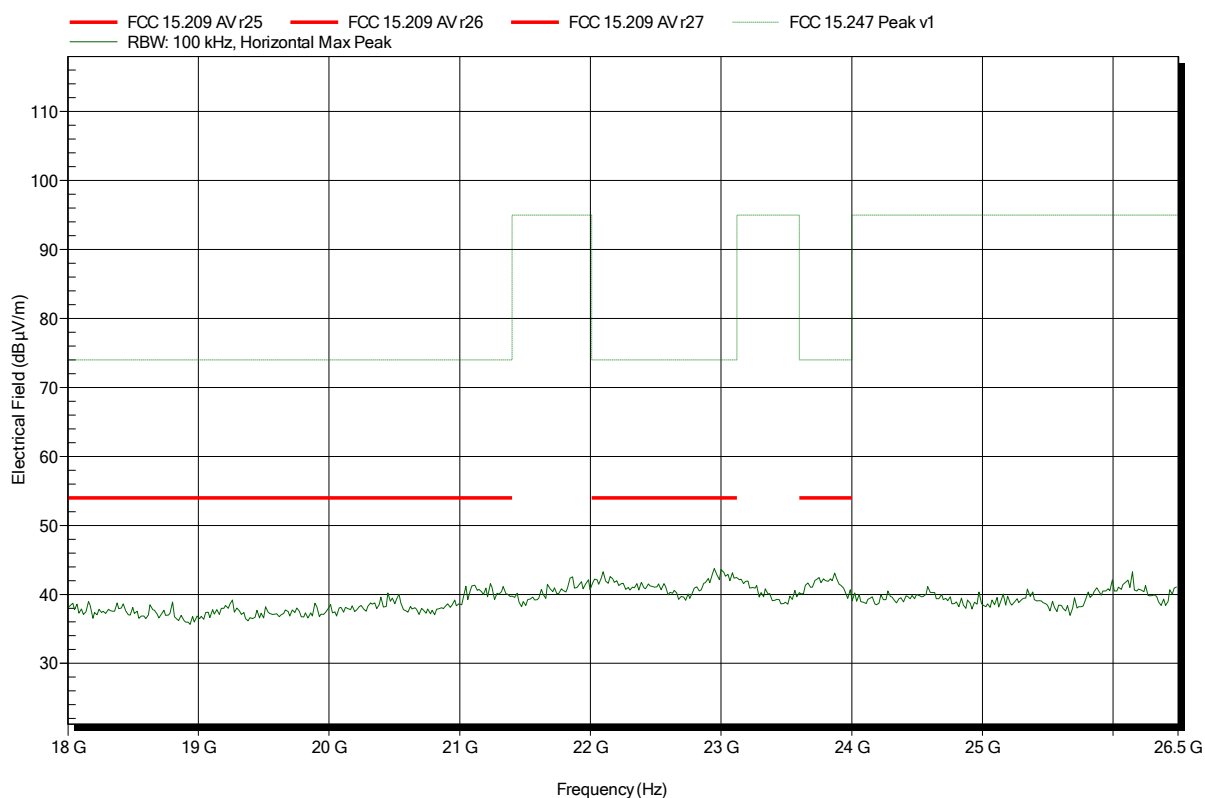


Spurious emissions according to FCC 15B

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.0VDC battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; 2480MHz, 1Mbps, Pmax
 Test Date: 2015-01-06
 Note:

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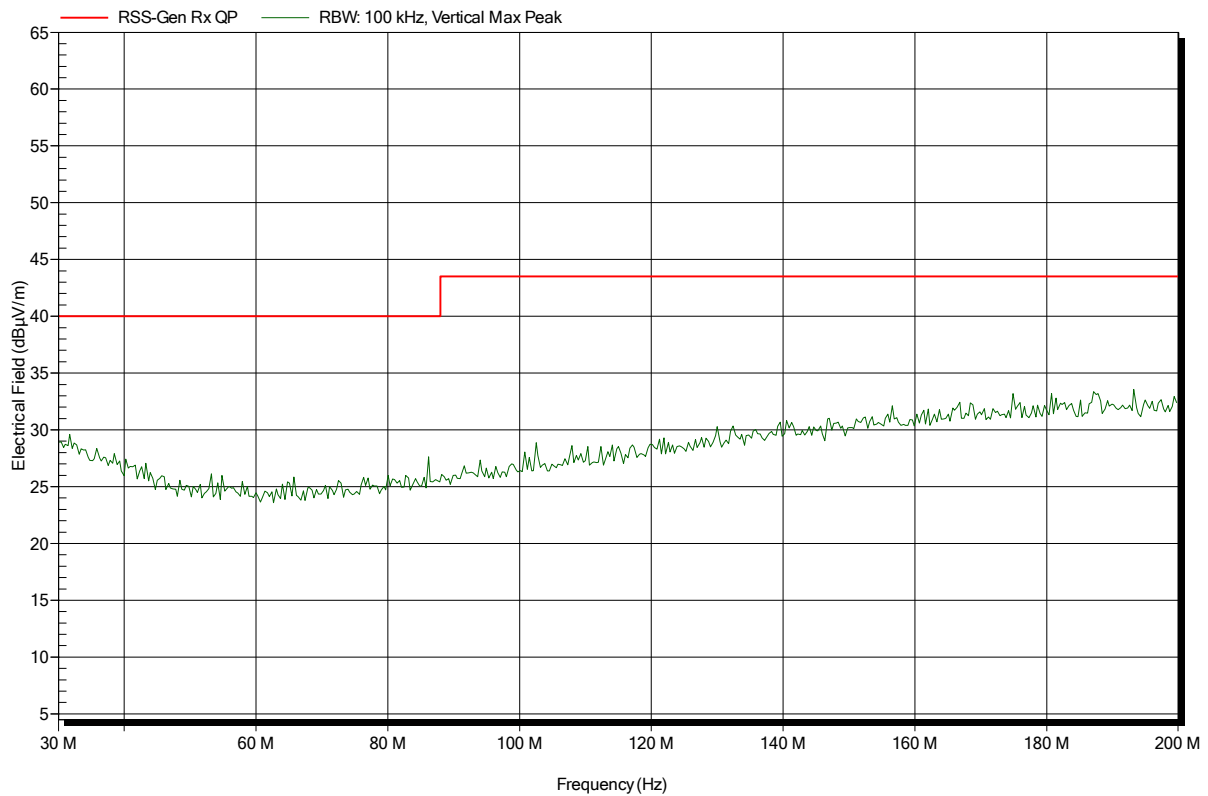
ANNEX B Receiver radiated spurious emissions

Spurious emissions according to RSS-GEN

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.7VDC battery
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: RX; 2440MHz
 Test Date: 2015-01-07
 Note:

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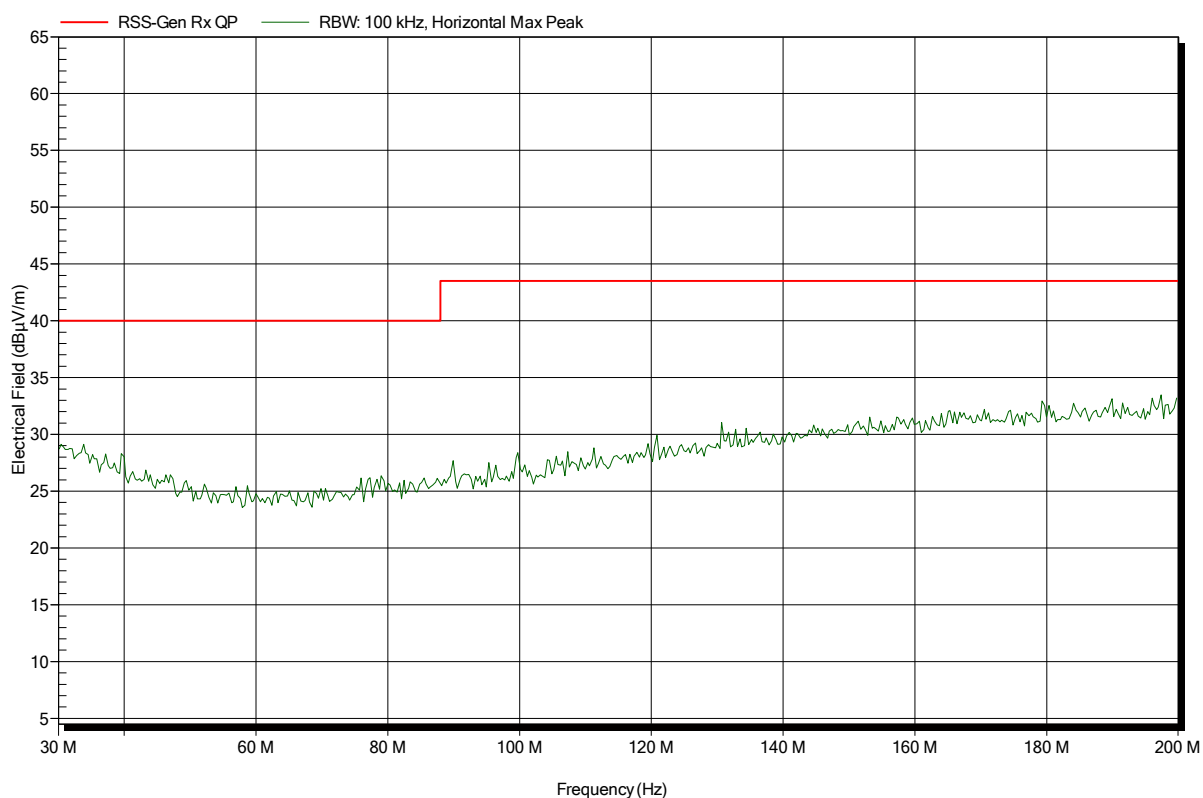


Spurious emissions according to RSS-GEN

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.7VDC battery
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: RX; 2440MHz
 Test Date: 2015-01-07
 Note:

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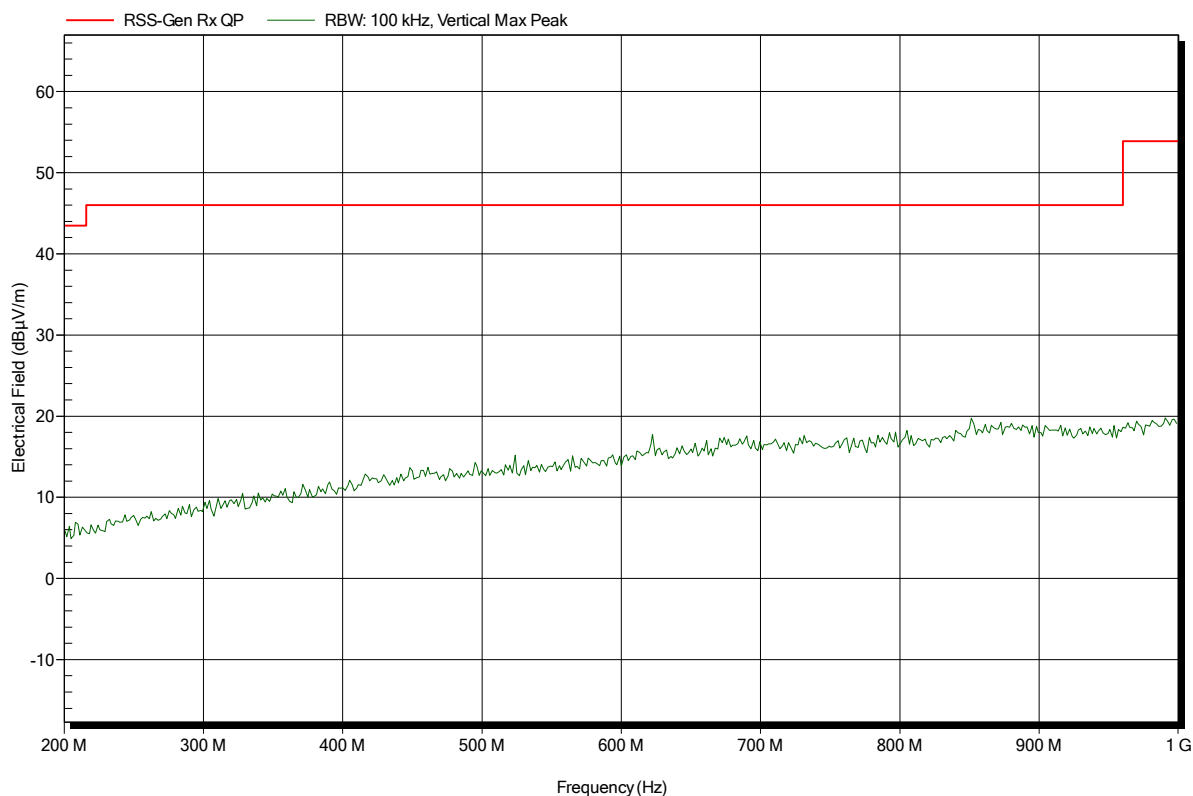


Spurious emissions according to RSS-GEN

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.7VDC battery
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: RX; 2440MHz
 Test Date: 2015-01-07
 Note:

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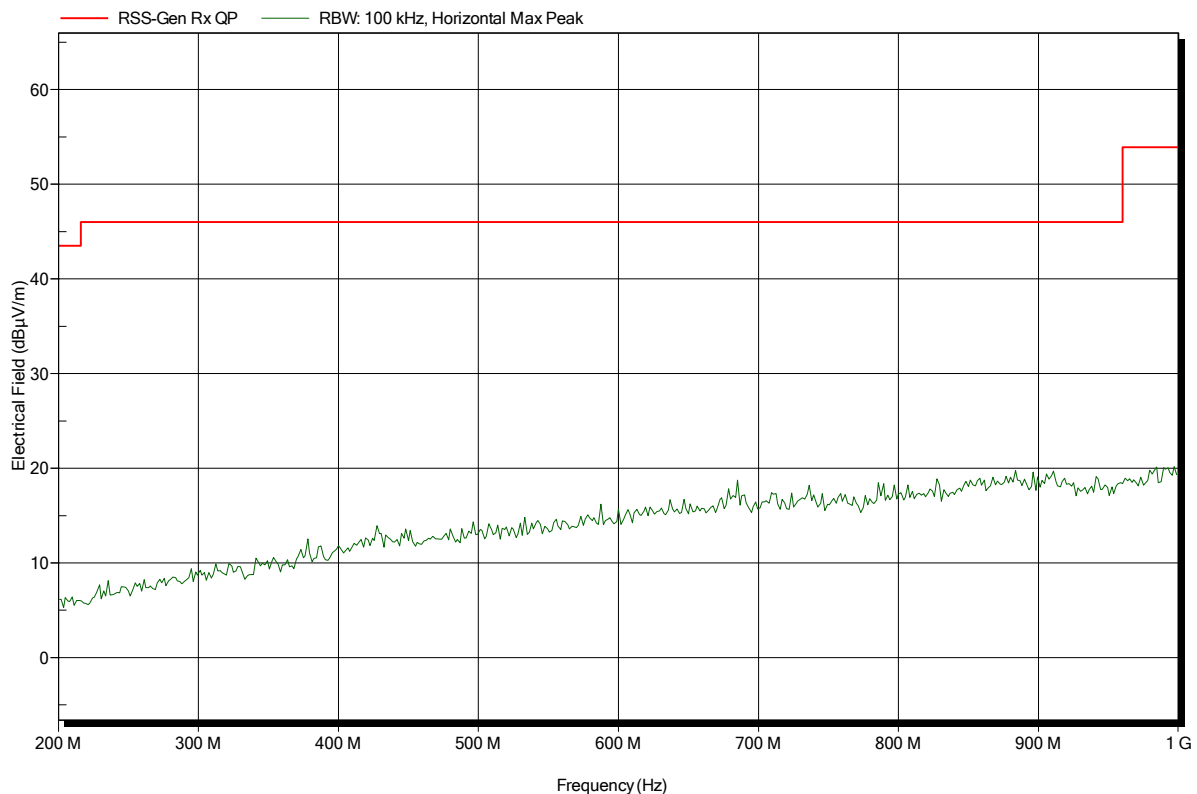


Spurious emissions according to RSS-GEN

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.7VDC battery
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: RX; 2440MHz
 Test Date: 2015-01-07
 Note:

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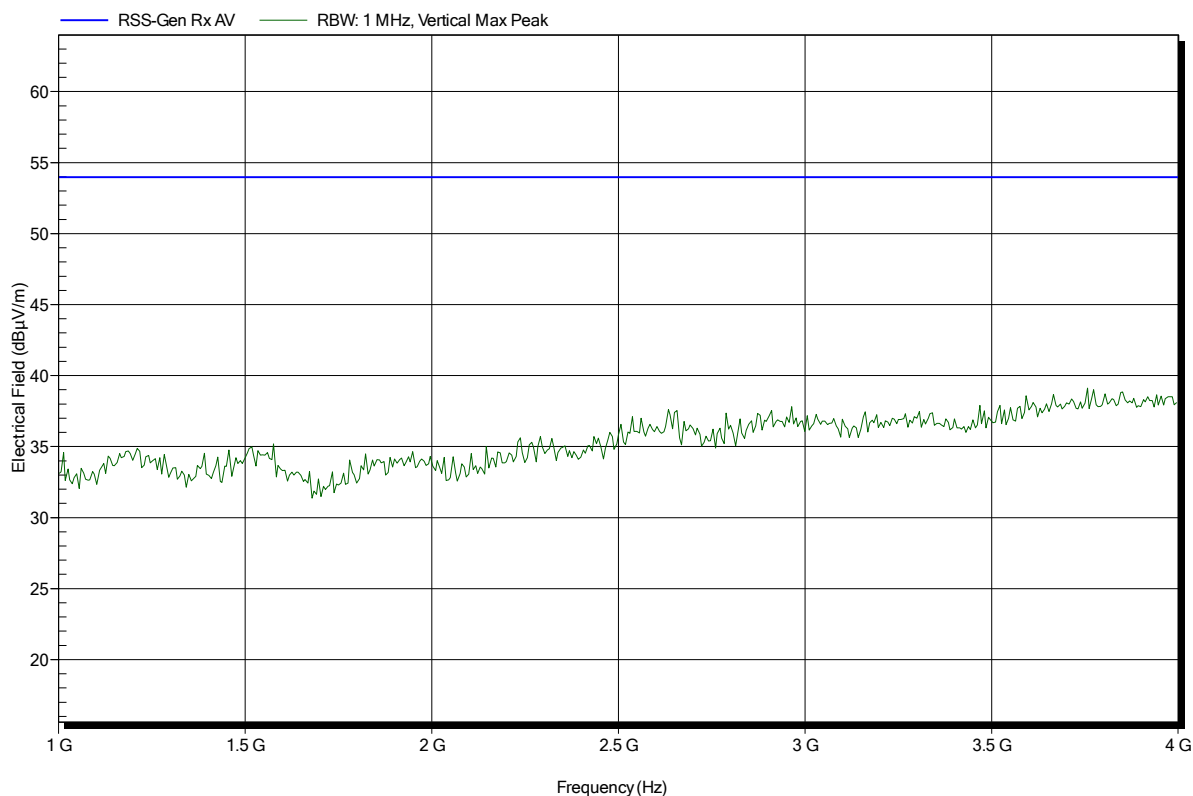


Spurious emissions according to RSS-GEN

Project number: G0M-1409-4154

Applicant:	Amor Gummiwaren GmbH
EUT Name:	electric device
Model:	Duo
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.7VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	RX; 2440MHz
Test Date:	2015-01-07
Note:	

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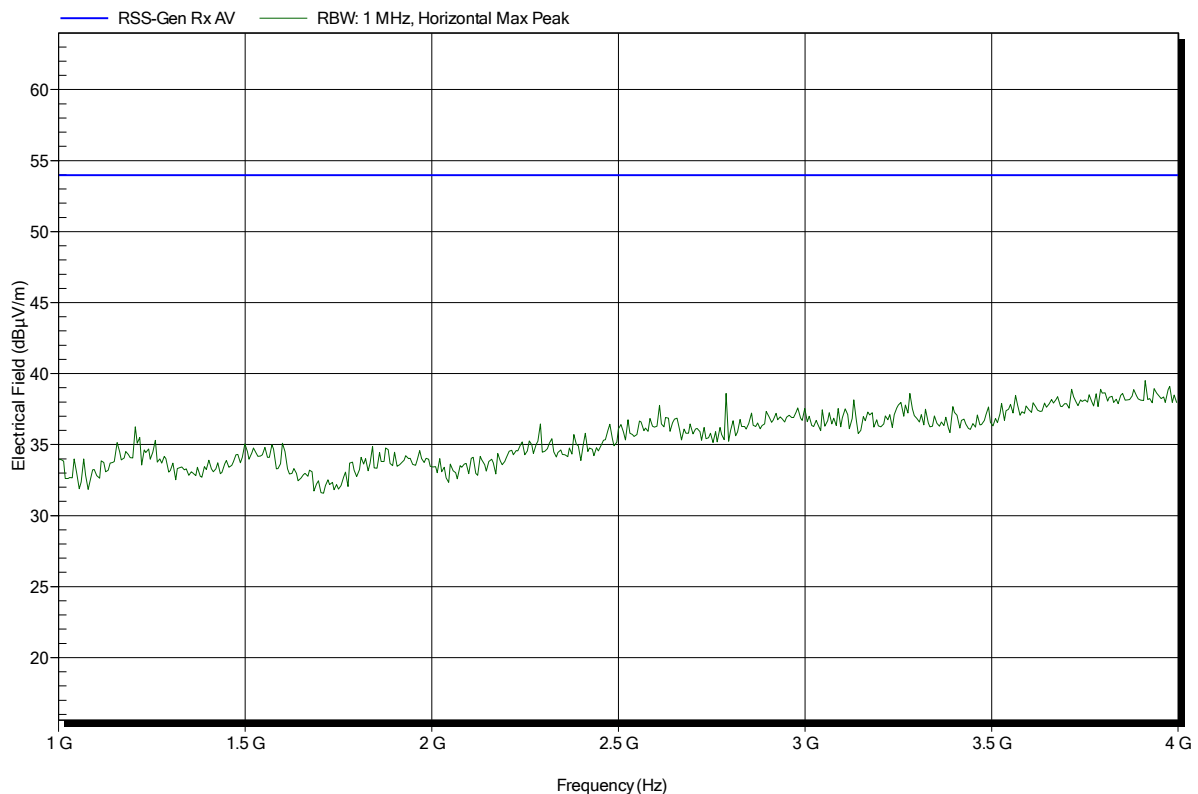


Spurious emissions according to RSS-GEN

Project number: G0M-1409-4154

Applicant:	Amor Gummiwaren GmbH
EUT Name:	electric device
Model:	Duo
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.7VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	RX; 2440MHz
Test Date:	2015-01-07
Note:	

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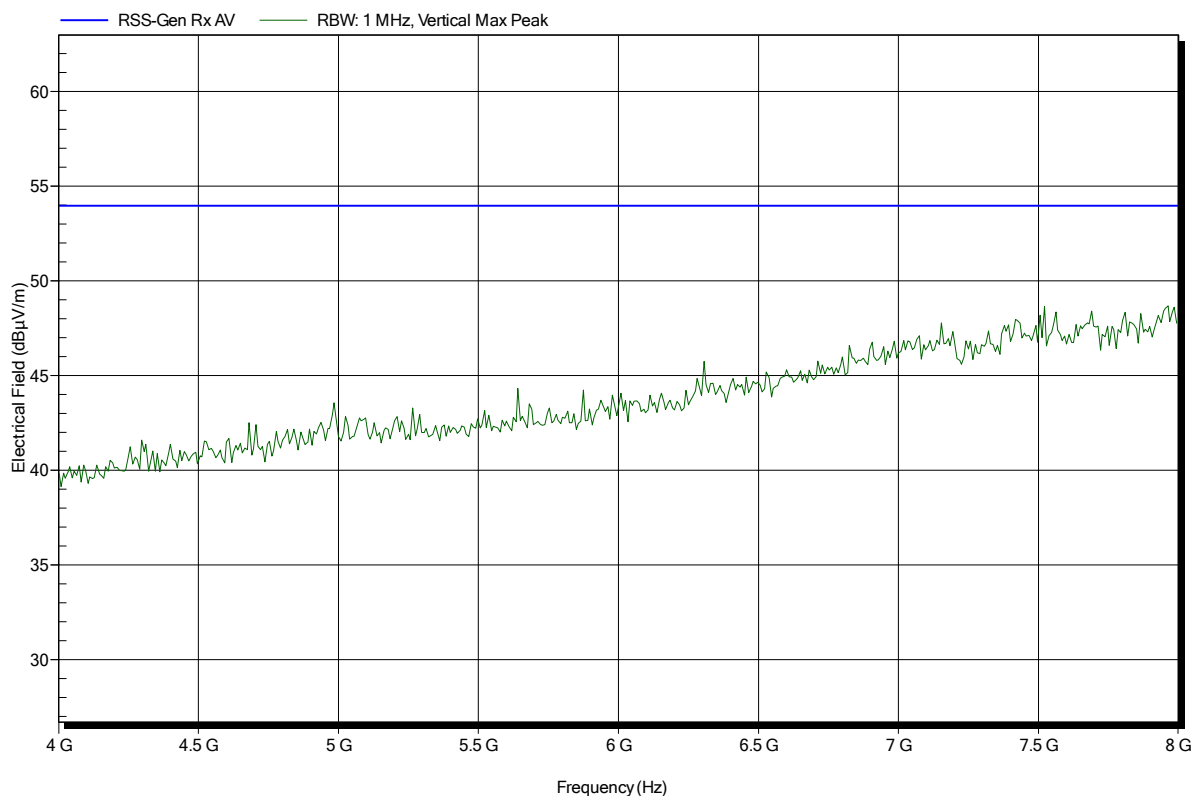


Spurious emissions according to RSS-GEN

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH
 EUT Name: electric device
 Model: Duo
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Vnom: 3.7VDC battery
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: RX; 2440MHz
 Test Date: 2015-01-07
 Note:

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Spurious emissions according to RSS-GEN

Project number: G0M-1409-4154

Applicant:	Amor Gummiwaren GmbH
EUT Name:	electric device
Model:	Duo
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 22°C, Vnom: 3.7VDC battery
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	RX; 2440MHz
Test Date:	2015-01-07
Note:	

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