

FCC TEST REPORT

FCC 47 CFR Part 15C Industry Canada RSS-210

Digital transmission systems operating within the 2400 - 2483.5 MHz band

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. SEI
Additional Model(s) None

Brand Name(s) Vibratissimo

Hardware version V2.0

Firmware / Software version BLE-Stack SD110 V6.0.0

FCC-ID: 2ADAR504004 IC: 12372A-504004

Test result Passed



P	nesi	h	6	test	case	verd	icts.
	USSI	v		LCSL	Case	VEIU	ILLO.

- 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 2014-11-06

Date (s) of performance of tests 2014-12-01

Compiled by: Matthias Handrik

(Responsible for Test)

Approved by (+ signature): Christian Weber

Date of issue 2015-01-19

Total number of pages 75

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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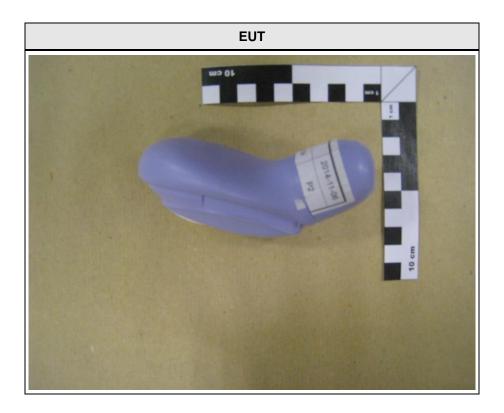


1 Equipment (Test item) Description

Description	electric device		
Model	SEI		
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	2ADAR504004		
IC	12372A-504004		
Equipment type	End product		
Radio type	Transceiver		
Radio technology	Bluetooth 4.0 Lo	ow Energy	
Operating frequency range	2402 - 2480 MHz		
Assigned frequency band	2400 - 2483.5 MHz		
	F _{LOW}	2402 MHz	
Main test frequencies	F _{MID}	2442 MHz	
	F _{HIGH}	2480 MHz	
Spreading	Frequency Hopp	ping	
Modulations	GFSK		
Number of channels	40		
Channel spacing	2MHz		
Number of antennas	1		
	Туре	integrated	
Antenna	Model	printed inverted F antenna	
Antonia	Manufacturer	unspecified	
	Gain	+2.75 dBi (manufacturer declaration)	
	Amor Gummiwa	ren GmbH	
Manufacturer	August-Rost-Str	aße 4	
	99310 Arnstadt		
	GERMANY	La a vida (i)	
	V _{NOM}	3.0 VDC (battery)	
Power supply	V _{MIN}	N/A	
	V _{MAX}	N/A	
AC/DC-Adaptor	none	Battery cannot be charged in the EUT	

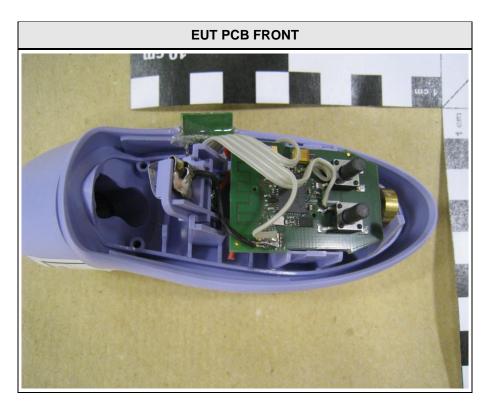


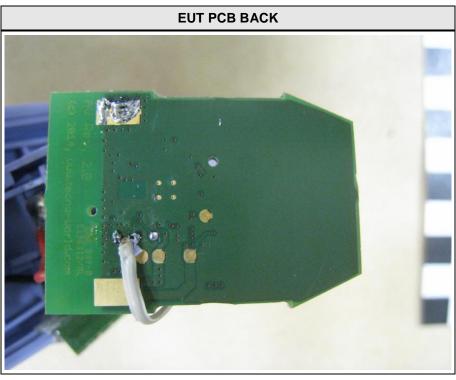
1.1 Photos – Equipment External





1.2 Photos – Equipment internal







1.3 Photos – Test setup





1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments		
AE	Laptop	DELL	Latitude D630			
AE : Auxiliary/Associated Equipment						



1.5 Test Modes

Mode #		Description	
	General conditions:	EUT powered by battery.	
Transmit	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	
	General conditions:	EUT powered by battery.	
Receive	Radio conditions:	Mode = standalone receive (scan mode) Spreading = FHSS Modulation = GFSK	



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	n 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 $dB\mu V$. 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:

Reading on Analyzer (dB μ V) + A.F. (dB) = Net field strength (dB μ 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 $dB\mu V/m$). The FCC limits are given in units of $\mu V/m$. The following formula is used to convert the units of $\mu V/m$ to $dB\mu V/m$:

Limit (dB μ V/m) = 20*log (μ 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:

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



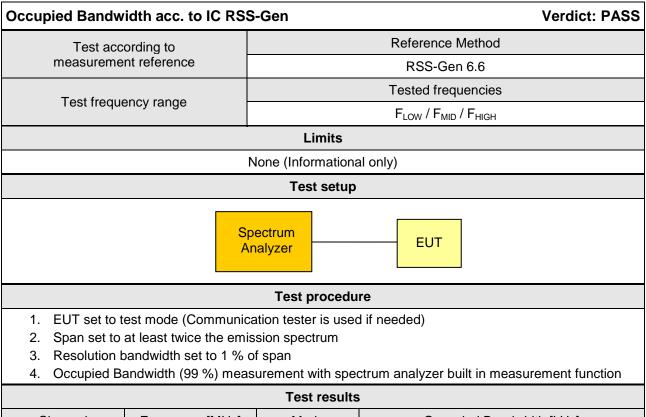
2 Result Summary

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	N/A	Battery cannot be charged in the EUT	
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



Test results					
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]		
F _{LOW}	2402	Transmit	992.3		
F _{MID}	2440	Transmit	989.8		
F _{HIGH}	2480	Transmit	982.3		
Comments:					



Occupied Bandwidth - FLOW

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

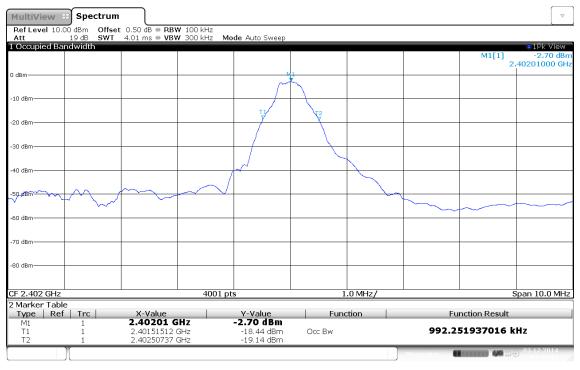
Operator: Wilfried Treffke
Test Conditions: Tnom / Vnom

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

Test Date: 2014-12-03 Verdict: PASS

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

Note 2: OBW= 992.3 kHz



Occupied bandwidth: 992.3 KHz Date: 3.DEC.2014 08:54:53



Occupied Bandwidth - F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

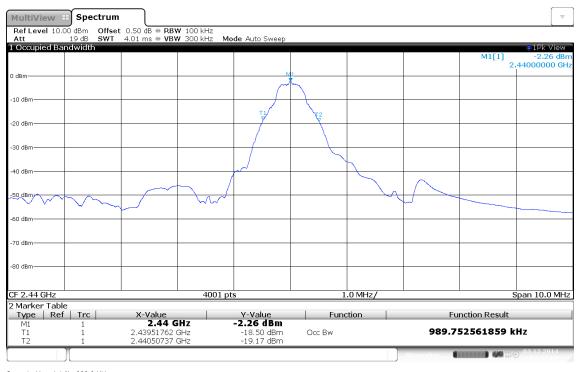
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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

Test Date: 2014-12-03 Verdict: PASS

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

Note 2: OBW= 989.8 kHz



Occupied bandwidth: 989.8 KHz Date: 3.DEC.2014 09:02:00



Occupied Bandwidth - F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

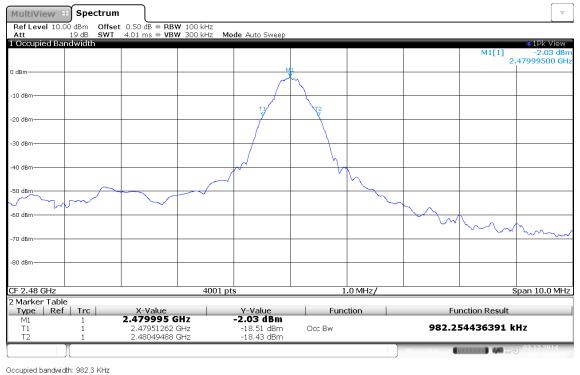
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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

Test Date: 2014-12-03 Verdict: PASS

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

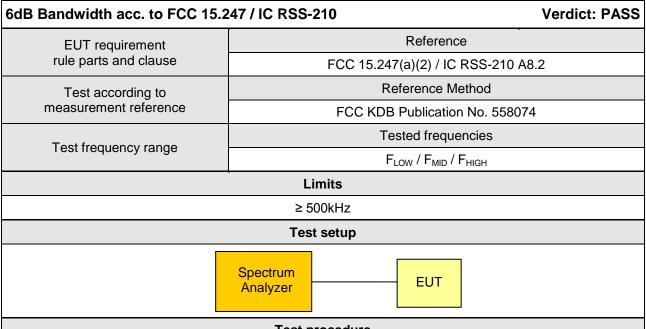
Note 2: OBW= 982.3 kHz



Date: 3.DEC.2014 09:04:28



3.2 Test Conditions and Results - 6 dB Bandwidth



Test procedure

- 1. EUT set to test mode
- 2. Span set to at least twice the emission spectrum
- 3. Detector set to peak and max hold and RBW is set to 100 kHz
- 4. Envelope peak value of emission spectrum is selected
- 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak
- 6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak
- 7. 6 dB Bandwidth is determined by marker frequency separation

Test results						
Channel	Frequency [MHz]	Mode	6 dB Bandwidth [kHz]	Limit [kHz]	Result	
F _{LOW}	2402	Transmit	857.8	500	PASS	
F _{MID}	2442	Transmit	864.2	500	PASS	
F _{HIGH}	2480	Transmit	772.5	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: SEI

Test Site: Eurofins Product Service GmbH

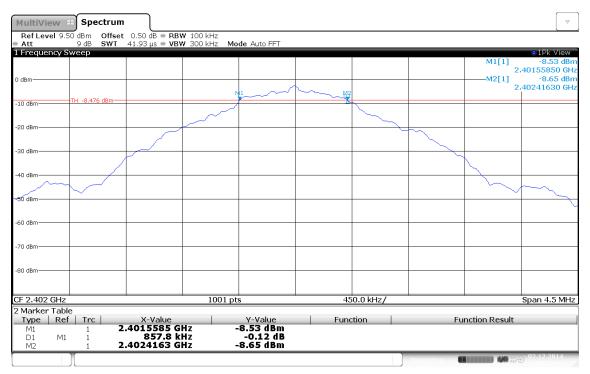
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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: 857.8 KHz > 500 KHz; verdict: PASS

Date: 2.DEC.2014 16:37:42



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: SEI

Test Site: Eurofins Product Service GmbH

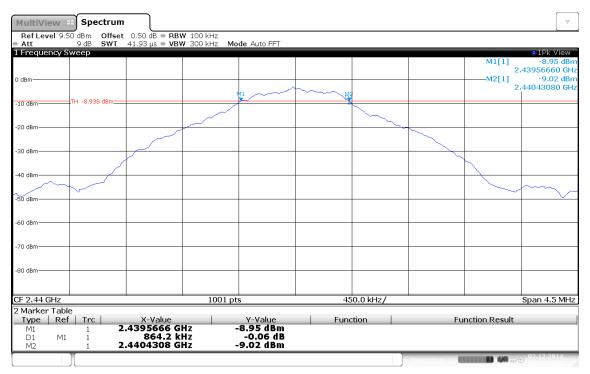
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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: 864.2 KHz > 500 KHz; verdict: PASS

Date: 2.DEC.2014 16:39:42



6 dB Bandwidth - FHIGH

Minimum 6 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

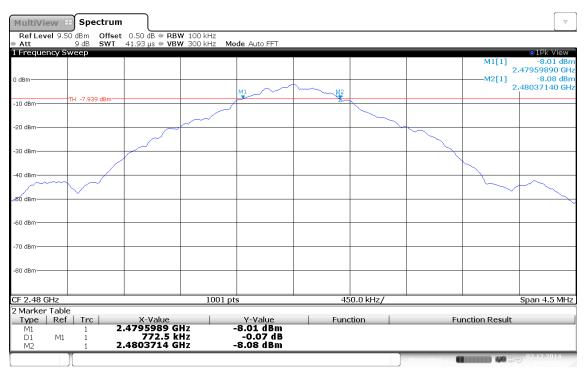
Operator: Wilfried Treffke
Test Conditions: Tnom / Vnom

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



6 dB bandwidth: 772.5 KHz > 500 KHz; verdict: PASS

Date: 2.DEC.2014 16:45:00

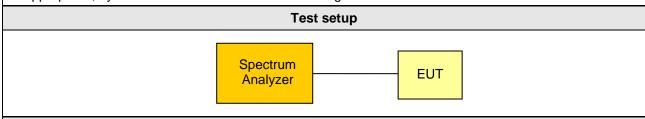


3.3 Test Conditions and Results - Maximum peak conducted power

Maximum peak conducted powe	aximum peak conducted power acc. FCC 15.247 / IC RSS-210 Verdict: PASS					
EUT requirement	Reference					
rule parts and clause	FCC 15.247(b)(3) / IC RSS	S-210 A8.4				
Test according to	Reference Metho	d				
measurement reference	FCC KDB Publication No. 558074					
Toot fraguency range	Tested frequencies					
Test frequency range	F _{LOW} / F _{MID} / F _{HIGH}					
Measurement mode	Peak					
Maximum antenna gain	2.75 dBi ⇒ Limit correction = 0 dB					
	Limits					
1 W (30 dRm)						

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.



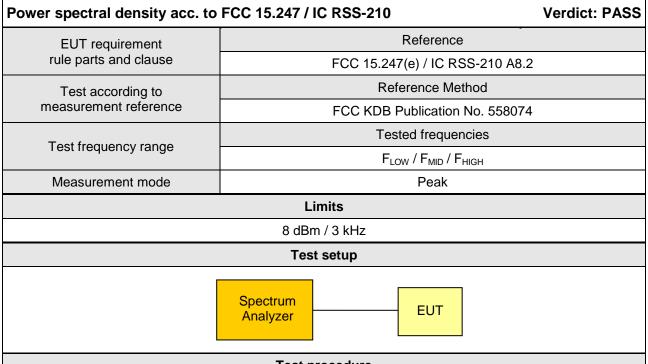
Test procedure

- 1. EUT set to test mode (Communication tester is used if needed)
- 2. Center frequency set to test channel center frequency
- 3. Span set to twice the 20 dB bandwidth and detector to peak and max hold
- 4. Resolution bandwidth is set to 3 MHz
- 5. Peak conducted power is determined from peak of spectrum envelope

Test results							
Channel	Frequency [MHz]	Voltage	Mode	Peak power [dbm]	Peak power [W]	Limit [dBm]	Margin [dB]
F_{LOW}	2402	$V_{\text{nom}} = 3.0V$	Transmit	-2.26	0.00	30	-32.26
F_{MID}	2440	$V_{nom} = 3.0V$	Transmit	-2.29	0.00	30	-32.29
F _{HIGH}	2480	$V_{nom} = 3.0V$	Transmit	-2.04	0.00	30	-32.04
Comment:							



3.4 Test Conditions and Results - Power spectral density



Test procedure

- 1. EUT set to test mode (Communication tester is used if needed)
- 2. Center frequency set to test channel center frequency
- 3. Span is set large enough to capture maximum emissions in passband, RBW is set to 3kHz
- 4. Peak power density is determined from peak emission of envelope

Test results						
Channel	Frequency [MHz]	Test mode	Peak frequency [MHz]	Peak power density [dBm]	Limit [dBm/3kHz]	Margin [dB]
F _{LOW}	2402	Transmit	2402.027	-3.29	8.0	-11.29
F _{MID}	2440	Transmit	2439.996	-2.36	8.0	-10.36
F _{HIGH}	2480	Transmit	2479.991	-2.27	8.0	-10.27
Comments:						



3.5 Test Conditions and Results - Band edge compliance

Band-edge compliance acc. to FCC 15.247 / IC RSS-210 Verdict: PASS					
EUT requirement		Reference			
rule parts and clause		FCC 15.247(d) / IC RSS-210 A8.5			
Test according to		Reference Method			
measurement reference		FCC KDB Publication No. 558074			
Toot fraguency range		Tested frequencies			
Test frequency range	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			
Spectrum Analyzer EUT					
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
- Resolution bandwidth is set to 100 kHz
- Markers are set to peak emission levels within frequency band and outside frequency band
- Band edge attenuation is determined from level difference

	Test results						
Channel	Frequency [MHz]	Mode	Level [dBc]	Limit [dBc]	Margin [dB]		
F_{LOW}	2402	Transmit	-45.8	-20	-25.80		
F _{HIGH}	2480	Transmit	-59.1	-20	-39.10		
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: SEI

Test Site: Eurofins Product Service GmbH

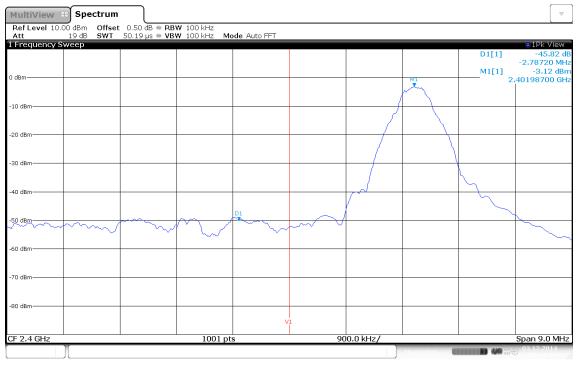
Operator: Wilfried Treffke
Test Conditions: Tnom / Vnom

Mode: Tx, BTLE, 2402 MHz, modulated

Test Date: 2014-12-03 Verdict: PASS

Note 1: 558074 D01 Meas Guidance

Note 2: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB; Result: PASS

Date: 3.DEC.2014 09:08:59



Band-edge compliance

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

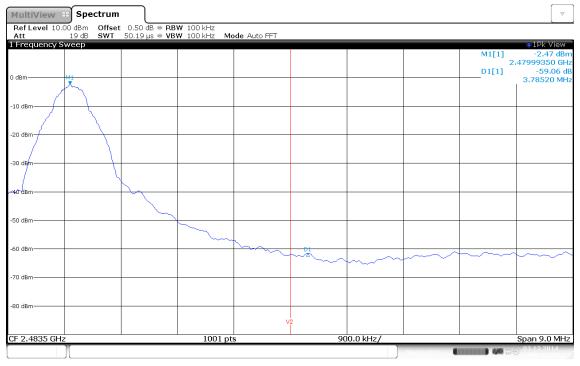
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

Mode: Tx, BTLE, 2480 MHz, modulated

Test Date: 2014-12-03 Verdict: PASS

Note 1: 558074 D01 Meas Guidance

Note 2: upper Band-edge, conducted measurement



Limit: Marker Delta value >20 dB; Result: PASS

Date: 3.DEC.2014 09:13:18



3.6 Test Conditions and Results - Conducted spurious emissions

Conducted spurious emissions acc. to FCC 15.247 / IC RSS-210 Verdict: PASS					
EUT requirement	Reference				
rule parts and clause		FCC 15.247(d) / IC RSS-210 A8.5			
Test according to		Reference Method			
measurement reference		FCC KDB Publication No. 558074			
Toot fraguency range		Tested frequencies			
Test frequency range	10 MHz – 10 th Harmonic				
Measurement mode		Peak			
	Lin	nits			
Limit		Condition			
≤ -20 dB / 100 kHz		Peak power measurement detector = Peak			
≤ -30 dB /100 kHz		Peak power measurement detector = RMS			
	Test setup				
	pectrum nalyzer	EUT			
Tost procedure					

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 is set to 100 kHz and detector to peak and max hold
- 4. Markers are set to peak emission levels within frequency band
- 5. Emission level is determined by second marker on emission peak
- 6. Attenuation is determined from level difference

Test results									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Emission Level [dbm]	Peak power [dBm]	Limit [dBm]	Margin [dB]		
F_{LOW}	2402	Transmit	4959.970	-46.00	-2.0	-22.0	-24.00		
F _{MID}	2440	Transmit	4879.800	-45.70	-2.2	-22.2	-23.50		
F _{HIGH}	2480	Transmit	4804.010	-44.06	-2.3	-22.3	-21.76		
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: SEI

Test Site: Eurofins Product Service GmbH

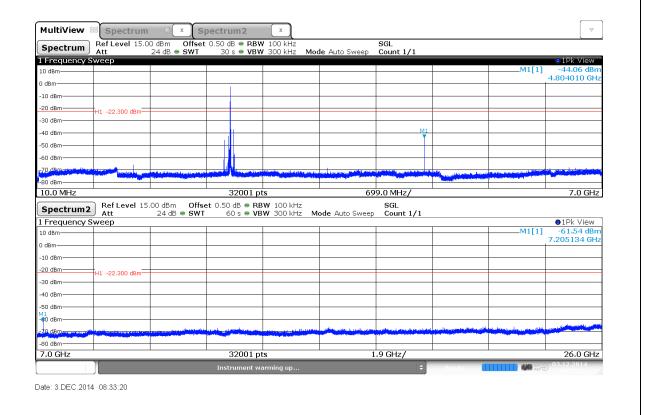
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

Mode: Tx, BTLE, 2402 MHz, modulated

Test Date: 2014-12-03 Verdict: PASS

Note 1: Spurious in non-restricted frequency bands (558074 D01 Meas Guidance)

Note 2: conducted measurement





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: SEI

Test Site: Eurofins Product Service GmbH

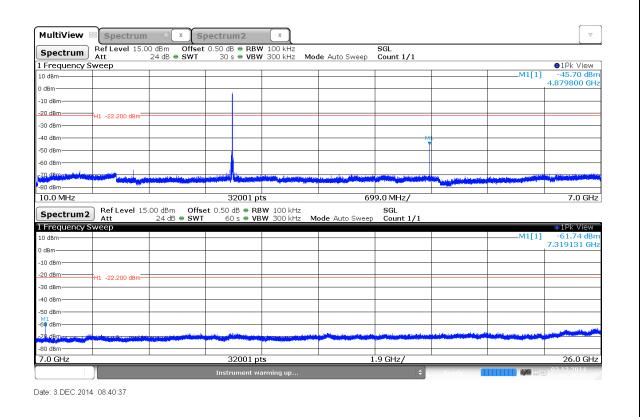
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

Mode: Tx, BTLE, 2440 MHz, modulated

Test Date: 2014-12-03 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: SE

Test Site: Eurofins Product Service GmbH

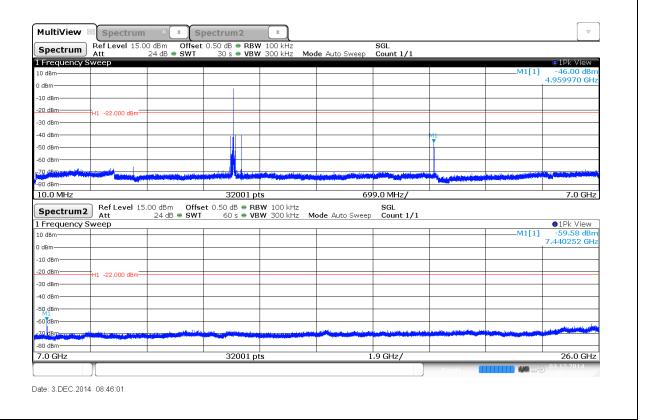
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

Mode: Tx, BTLE, 2480 MHz, modulated

Test Date: 2014-12-03 Verdict: PASS

Note 1: Spurious in non-restricted frequency bands (558074 D01 Meas Guidance)

Note 2: conducted measurement



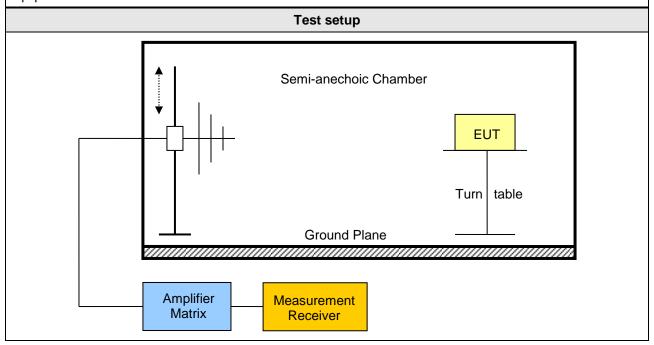


3.7 Test Conditions and Results - Transmitter radiated emissions

Transmitter radiated emissions acc. to FCC 47 CFR 15.247 / IC RSS-210 Verdict: PASS								
Test according refe	renced	Reference Method						
standards		FCC 15.247(d) / IC RSS-210 A8.5						
Test according	to	Reference Method						
measurement refe	rence	FCC KDB Publication No. 558074 / ANSI C63.4						
Took from your out we		Tested frequencies						
Test frequency ra	ange	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.





Product Service

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									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dbµV/m]	Det.	Pol.	Limit [dbµV/m]	Limit dist. [m]*	Margin [dB]
F _{LOW}	2402	Transmit	2316	52.26	pk	ver	74.00	3	-21.74
F _{LOW}	2402	Transmit	2316	27.58	RMS	ver	54.00	3	-26.42
F _{LOW}	2402	Transmit	2316	49.81	pk	hor	74.00	3	-24.19
F _{LOW}	2402	Transmit	2316	26.40	RMS	hor	54.00	3	-27.60
F _{LOW}	2402	Transmit	2372	51.23	pk	ver	74.00	3	-22.77
F _{LOW}	2402	Transmit	2372	26.84	RMS	ver	54.00	3	-27.16
F _{LOW}	2402	Transmit	2372	47.53	pk	hor	74.00	3	-26.47
F _{LOW}	2402	Transmit	2372	25.72	RMS	hor	54.00	3	-28.28
F _{LOW}	2402	Transmit	2400	88.01	pk	ver	95.00	3	-06.99
F_{LOW}	2402	Transmit	2400	81.59	pk	hor	95.00	3	-13.41
F _{LOW}	2402	Transmit	4800	41.27	pk	ver	74.00	3	-32.73
F _{LOW}	2402	Transmit	4800	41.20	pk	hor	74.00	3	-32.80
F _{MID}	2440	Transmit	2492.6	52.21	pk	ver	74.00	3	-21.79
F _{MID}	2440	Transmit	2492.6	24.85	avg	ver	54.00	3	-29.15
F _{MID}	2440	Transmit	2492.6	42.24	pk	hor	74.00	3	-31.76
F_{MID}	2440	Transmit	4872	38.32	pk	ver	74.00	3	-35.68
F _{MID}	2440	Transmit	4872	39.54	pk	hor	74.00	3	-34.46
F _{MID}	2440	Transmit	7312	41.49	pk	hor	74.00	3	-32.51
F _{HIGH}	2480	Transmit	2488.4	51.87	pk	ver	74.00	3	-22.13
F _{HIGH}	2480	Transmit	2488.4	26.66	RMS	ver	54.00	3	-27.34
F _{HIGH}	2480	Transmit	2493.1	52.84	pk	ver	74.00	3	-21.16
F _{HIGH}	2480	Transmit	2493.1	29.60	RMS	ver	54.00	3	-24.40
F _{HIGH}	2480	Transmit	4960	41.69	pk	ver	74.00	3	-32.31
F _{HIGH}	2480	Transmit	4960	39.93	pk	hor	74.00	3	-34.07
F _{HIGH}	2480	Transmit	7432	39.66	pk	ver	74.00	3	-34.34
F _{HIGH}	2480	Transmit	7432	41.99	pk	hor	74.00	3	-32.01

Comments: * Physical distance between EUT and measurement antenna.



Amplifier

Matrix

3.8 Test Conditions and Results - Receiver radiated emissions

Test according to Fest frequency range	Reference Method IC RSS-210 A8.5 Reference Method ANSI C63.4 Tested frequencies MHz – 3 th Harmonic Receive Limit [dBµV/m] 40 43.5 46 54	Limit Distance [m] 3 3 3	
Test according to measurement reference Test frequency range Test frequency range Test mode Test mode Test setup Test setu	Reference Method ANSI C63.4 Tested frequencies MHz – 3 th Harmonic Receive Limit [dBµV/m] 40 43.5 46	3	
Test according to measurement reference T 30 30 EUT test mode EUT test mode EUT test mode Eut test mode Eut test mo	ANSI C63.4 Tested frequencies MHz – 3 th Harmonic Receive Limit [dBµV/m] 40 43.5 46	3	
Test frequency range EUT test mode Limits Frequency range [MHz] Detector Limit [μV/m] 30 – 88 Quasi-Peak 100 88 – 216 Quasi-Peak 150 216 – 960 Quasi-Peak 200 960 – 1000 Quasi-Peak 500 > 1000 Average 500 Test setup	Tested frequencies MHz – 3 th Harmonic Receive Limit [dBµV/m] 40 43.5 46	3	
Test frequency range 30 EUT test mode Limits Frequency range [MHz] Detector Limit [μV/m] 30 – 88 Quasi-Peak 100 88 – 216 Quasi-Peak 150 216 – 960 Quasi-Peak 200 960 – 1000 Quasi-Peak 500 > 1000 Average 500 Test setup	MHz – 3 th Harmonic Receive Limit [dBµV/m] 40 43.5 46	3	
EUT test mode Limits	Receive Limit [dBµV/m] 40 43.5 46	3	
Limits Frequency range [MHz] Detector Limit [μV/m] 30 – 88 Quasi-Peak 100 88 – 216 Quasi-Peak 150 216 – 960 Quasi-Peak 200 960 – 1000 Quasi-Peak 500 > 1000 Average 500 Test setup	Limit [dBµV/m] 40 43.5 46	3	
Frequency range [MHz] Detector Limit [μV/m] 30 – 88 Quasi-Peak 100 88 – 216 Quasi-Peak 150 216 – 960 Quasi-Peak 200 960 – 1000 Quasi-Peak 500 > 1000 Average 500 Test setup	40 43.5 46	3	
30 – 88 Quasi-Peak 100 88 – 216 Quasi-Peak 150 216 – 960 Quasi-Peak 200 960 – 1000 Quasi-Peak 500 > 1000 Average 500 Test setup	40 43.5 46	3	
88 - 216 Quasi-Peak 150 216 - 960 Quasi-Peak 200 960 - 1000 Quasi-Peak 500 > 1000 Average 500 Test setup	43.5 46	3	
216 – 960 Quasi-Peak 200 960 – 1000 Quasi-Peak 500 > 1000 Average 500 Test setup	46		
960 – 1000 Quasi-Peak 500 > 1000 Average 500 Test setup		3	
> 1000 Average 500 Test setup	54		
Test setup	0 - 1	3	
A 1	54	3	
Semi-anechoic Char			
Ground Plane	mber EUT Turn table	 e	

Measurement

Receiver



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]	Det.	Limit [µV/m]	Margin [μV/m]	
F _{MID}	2440	2788	39.43	pk	54	-14.57	
Comments:							



ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC 15.247

Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

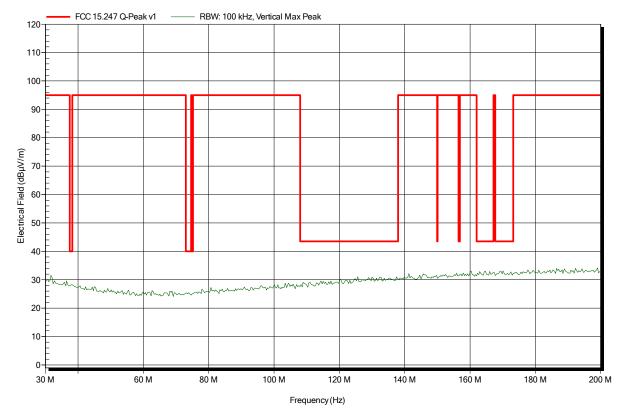
Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3 m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01 Note: worst case

Index 81





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

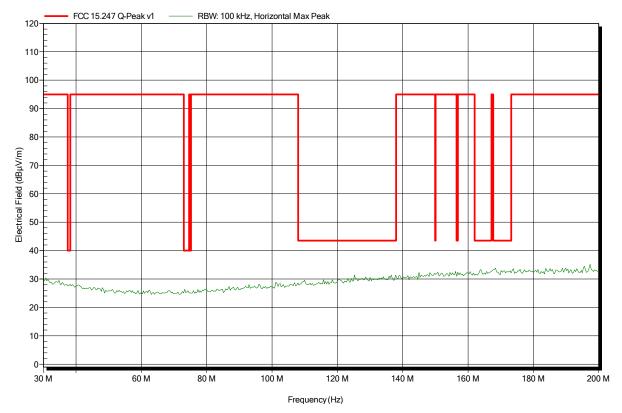
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HK 116, Horizontal

Measurement distance: 3 m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01 Note: worst case





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

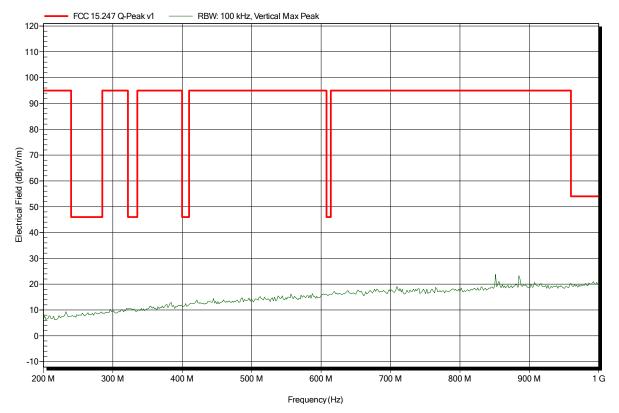
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3 n

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01 Note: worst case





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

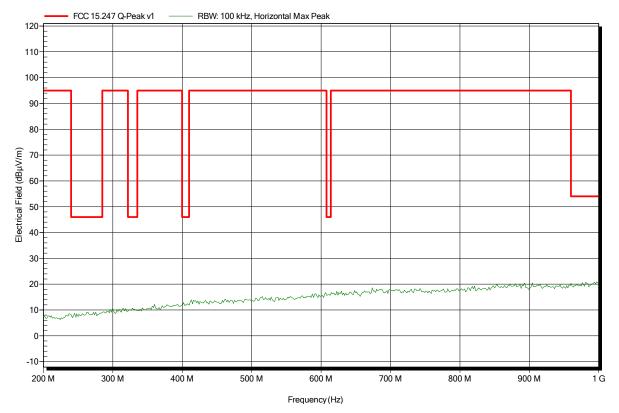
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3 m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01 Note: worst case





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

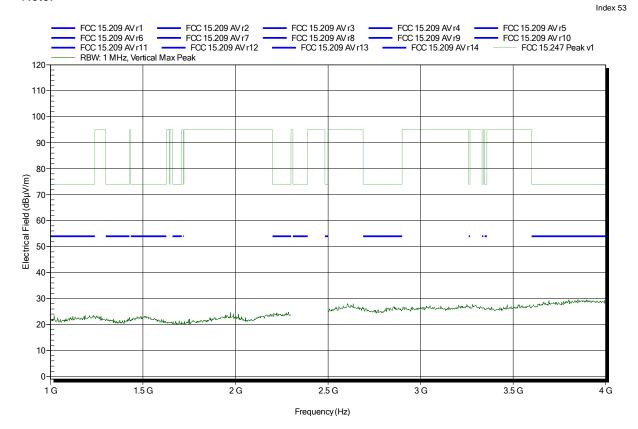
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

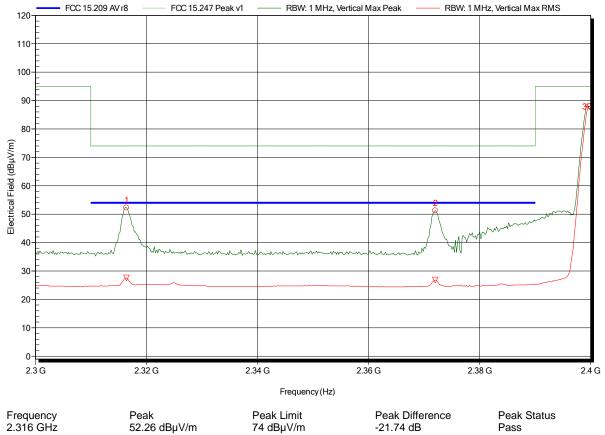
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01 Note: lower bandedge



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.316 GHz	52.26 dBμV/m	74 dBµV/m	-21.74 dB	Pass
2.372 GHz	51.23 dBμV/m	74 dBµV/m	-22.77 dB	Pass
2.4 GHz	88.01 dBμV/m	95 dBµV/m	-6.99 dB	Pass
Frequency 2.316 GHz 2.372 GHz 2.4 GHz	RMS 27.58 dBµV/m 26.84 dBµV/m 87.81 dBµV/m	RMS Limit 54 dBμV/m 54 dBμV/m	RMS Difference -26.42 dB -27.16 dB	RMS Status Pass Pass



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

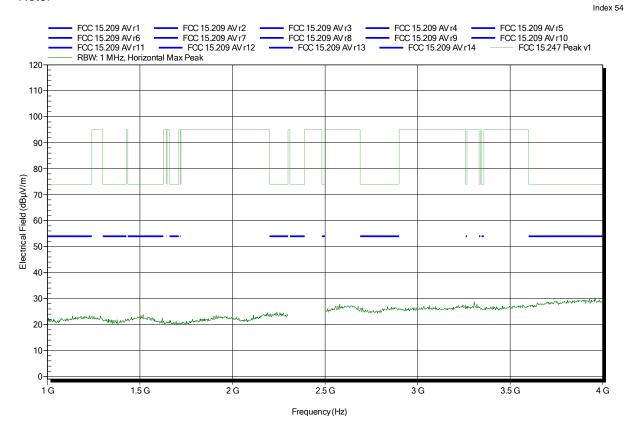
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

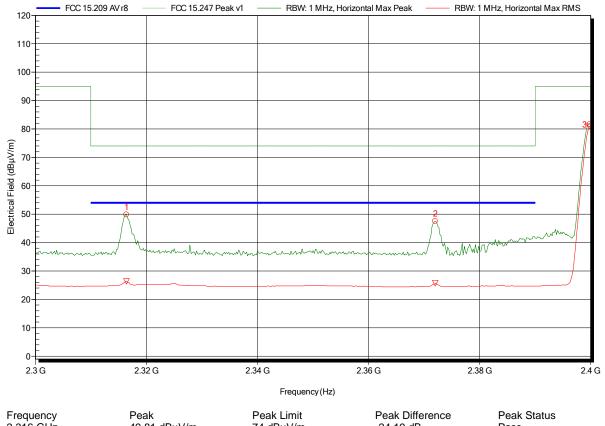
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01 Note: lower bandedge



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.316 GHz	49.81 dBµV/m	74 dBµV/m	-24.19 dB	Pass
2.372 GHz	47.53 dBµV/m	74 dBµV/m	-26.47 dB	Pass
2.4 GHz	81.59 dBµV/m	95 dBμV/m	-13.41 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.316 GHz	26.4 dBµV/m	54 dBµV/m	-27.6 dB	Pass
2.372 GHz	25.72 dBµV/m	54 dBµV/m	-28.28 dB	Pass
2.4 GHz	80.96 dBuV/m	•		



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2440 MHz; 1Mbps, Pmax

Test Date: 2014-12-01

Note:

Index 57 FCC 15 209 AV r1 FCC 15 209 AV r2 FCC 15 209 AV r3 FCC 15 209 AV r4 FCC 15 209 AV r5 FCC 15.209 AV r6 FCC 15.209 AV r7 FCC 15.209 AV r8 FCC 15.209 AV r9 FCC 15.209 AV r10 FCC 15.209 AV r14 FCC 15.209 AV r11 FCC 15.209 AV r12 FCC 15.209 AV r13 FCC 15.247 Peak v1 RBW: 1 MHz, Vertical Max Average RBW: 1 MHz, Vertical Max Peak 120 110 100 90 80 Electrical Field (dBµV/m) 60 50 40 30 20 10 2.5 G 1 G 1.5 G 2 G 3 G 3.5 G 4 G Frequency (Hz) Peak Limit Peak Difference Frequency Peak Status 2.4926 GHz 52.21 dBµV/m 74 dBµV/m -21.79 dB Pass Average Limit 54 dBµV/m Average Difference -29.15 dB Average Average Status Frequency 24.85 dBµV/m 2.4926 GHz Pass



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

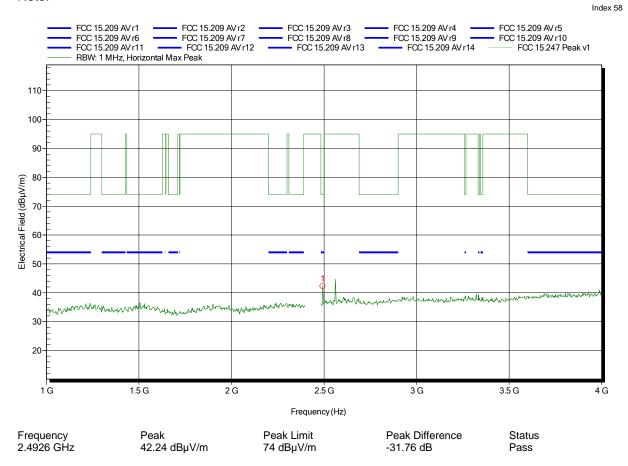
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2440 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

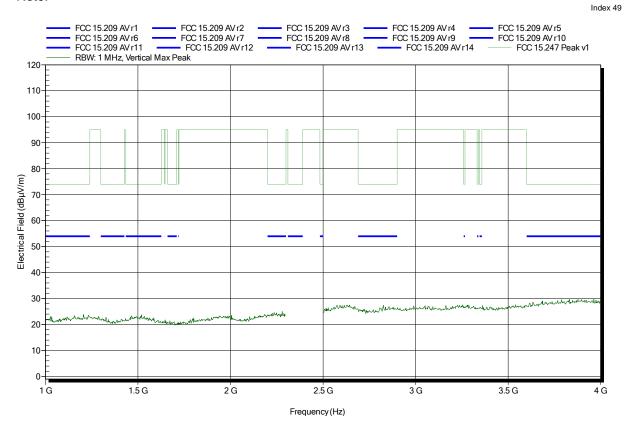
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

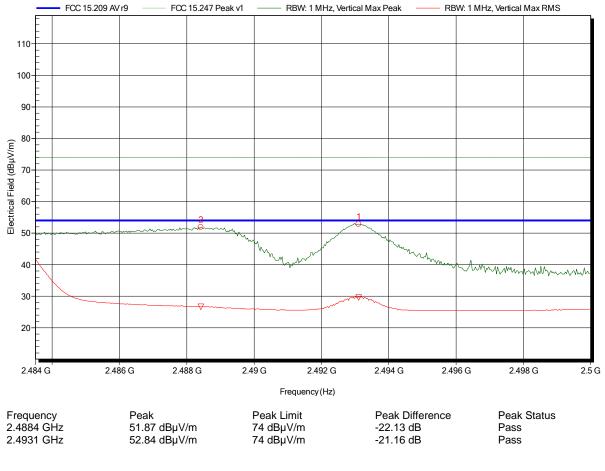
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01 Note: upper bandedge





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

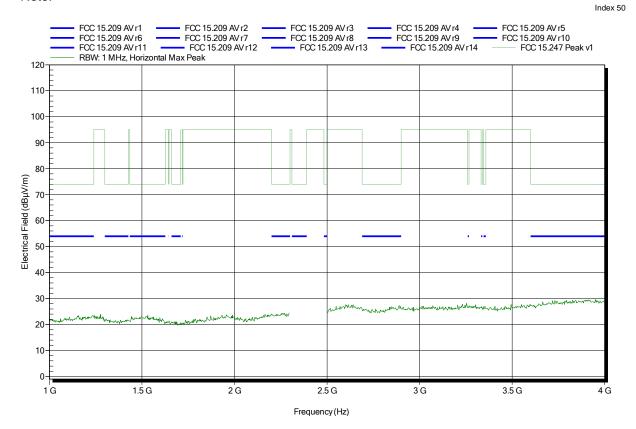
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

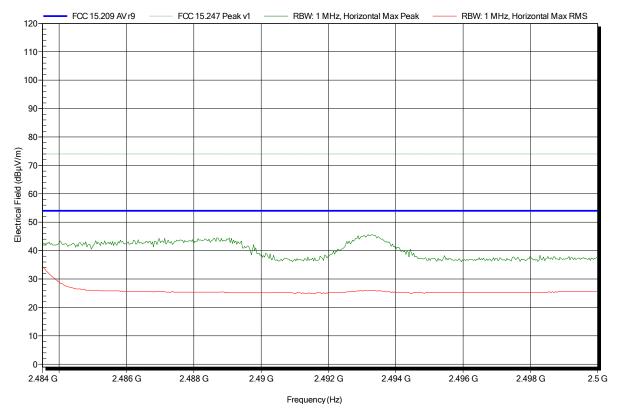
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01 Note: upper bandedge





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

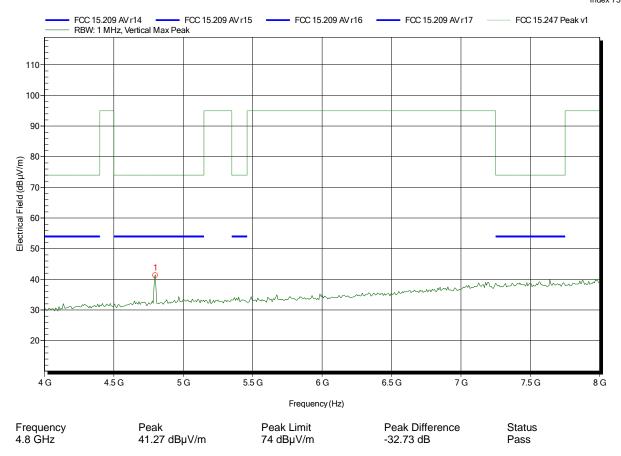
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

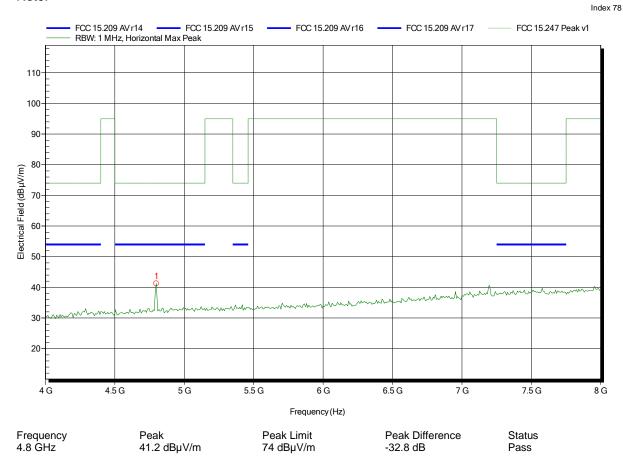
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

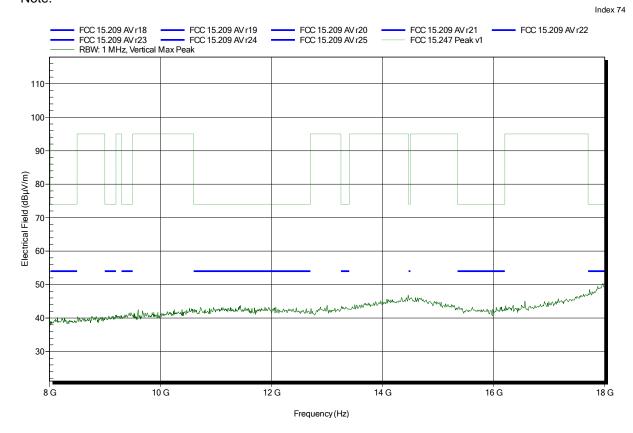
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

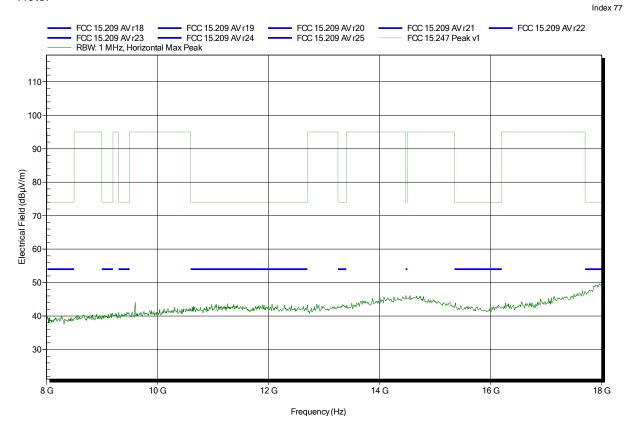
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HL 025, Vertical

Measurement distance: 1 m

19 G

18 G

20 G

21 G

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01

Note:

22 G

Frequency (Hz)

23 G

24 G

25 G

Index 75

26.5 G



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

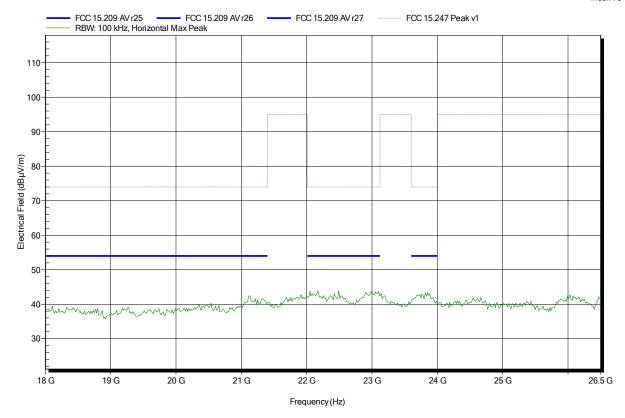
Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HL 025, Horizontal

Measurement distance: 1 m

Mode: TX; 2402 MHz; 1Mbps, Pmax

Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

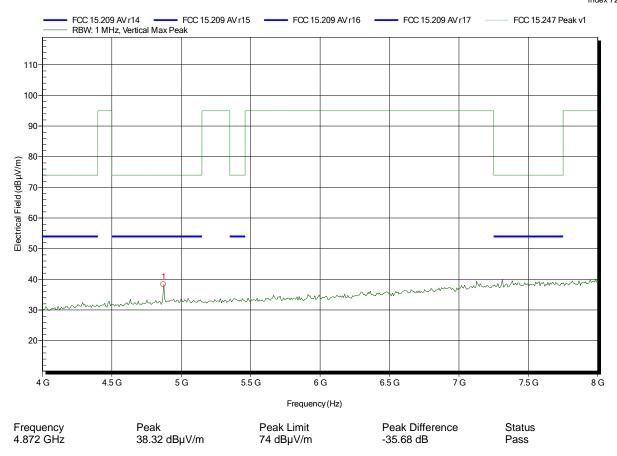
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2440 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

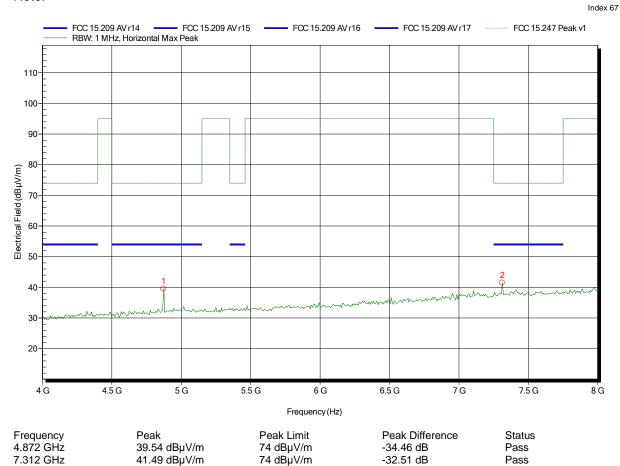
Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2440 MHz; 1Mbps, Pmax

Test Date: 2014-12-01

Note:



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



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

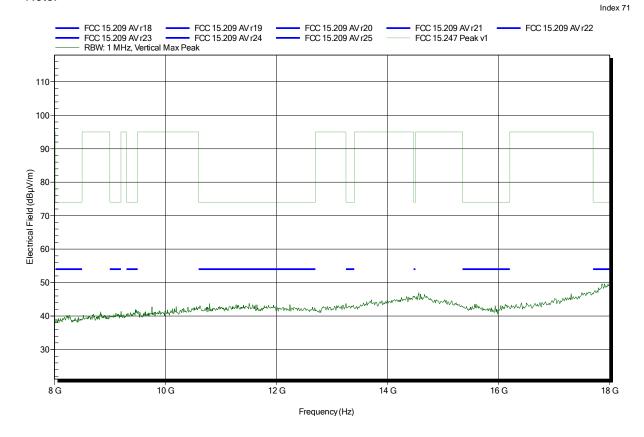
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2440 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

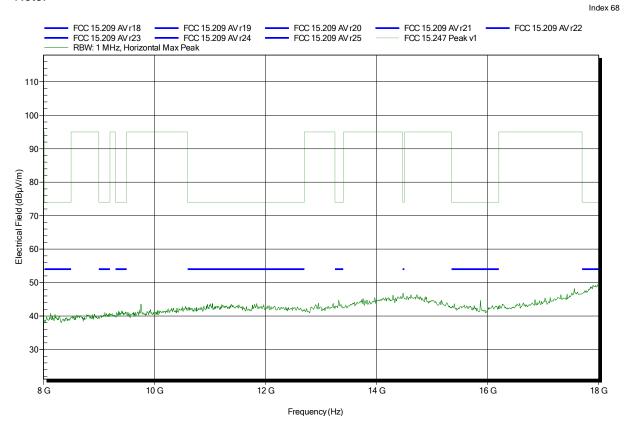
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2440 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

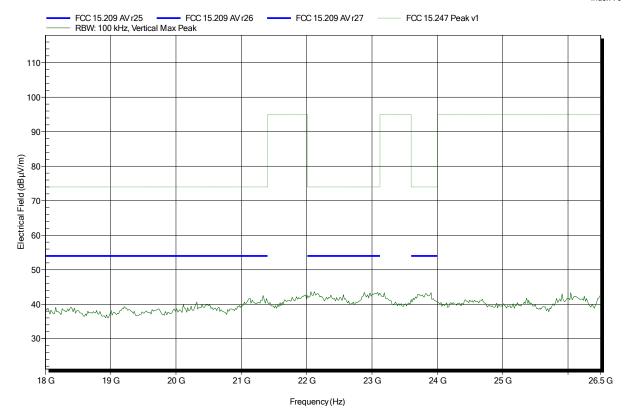
Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HL 025, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2440 MHz; 1Mbps, Pmax

Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

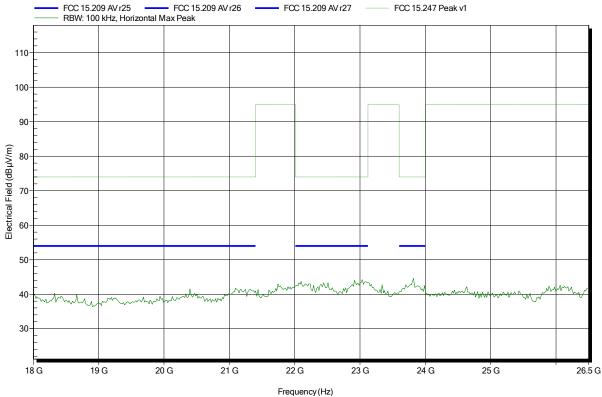
Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HL 025, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2440 MHz; 1Mbps, Pmax

Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

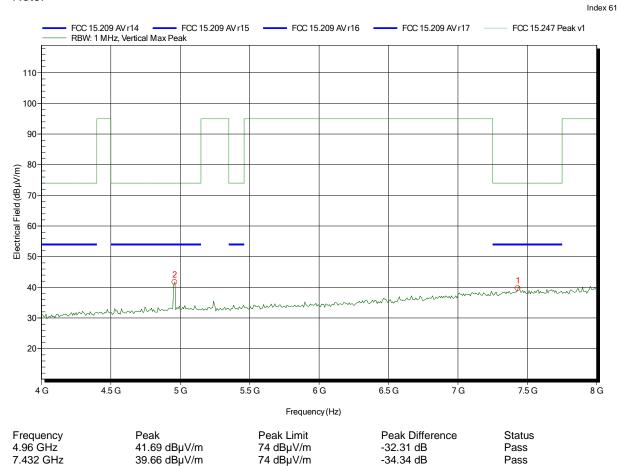
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

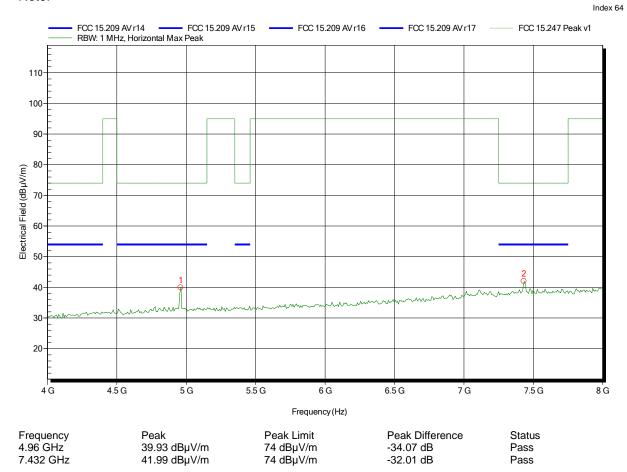
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

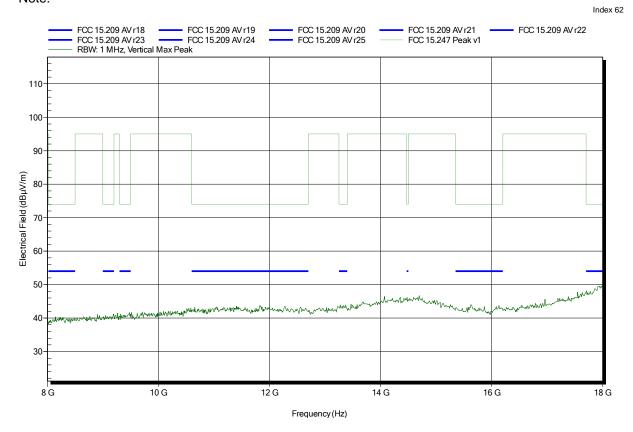
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

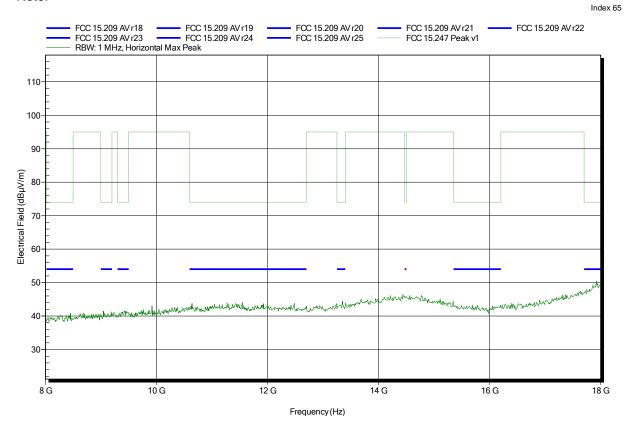
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

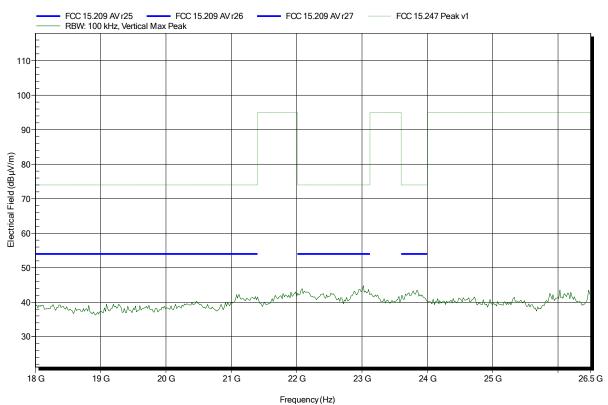
Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HL 025, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

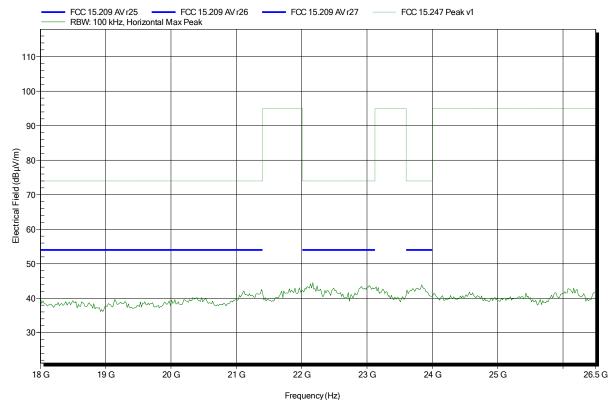
Test Conditions: Tnom: 24°C, Vnom: 2x1.5 V DC (battery)
Antenna: Rohde & Schwarz HL 025, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2480 MHz; 1Mbps, Pmax

Test Date: 2014-12-01

Note:





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: SE

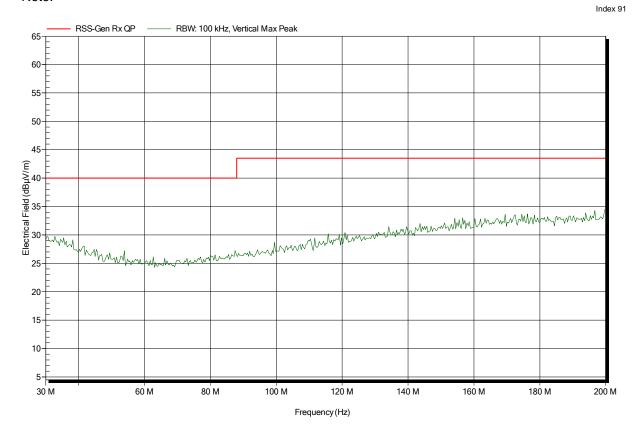
Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 VDC (battery)
Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-01





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Eurofins Product Service GmbH Test Site:

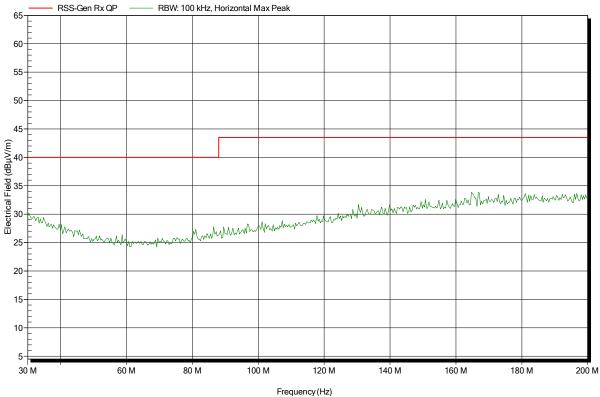
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 VDC (battery) Rohde & Schwarz HK 116, Horizontal Antenna:

Measurement distance:

RX; 2440MHz Mode: Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Eurofins Product Service GmbH Test Site:

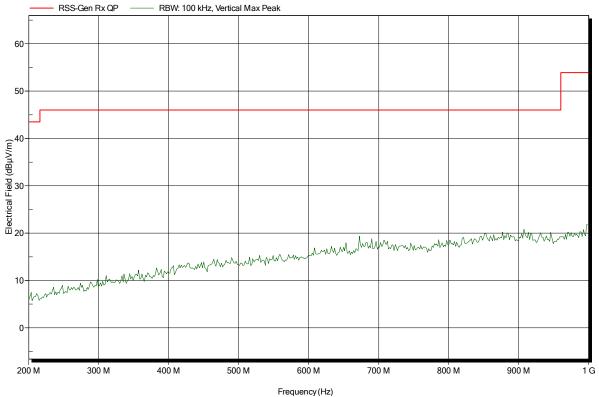
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 VDC (battery) Rohde & Schwarz HL 223, Vertical Antenna:

Measurement distance:

RX; 2440MHz Mode: Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

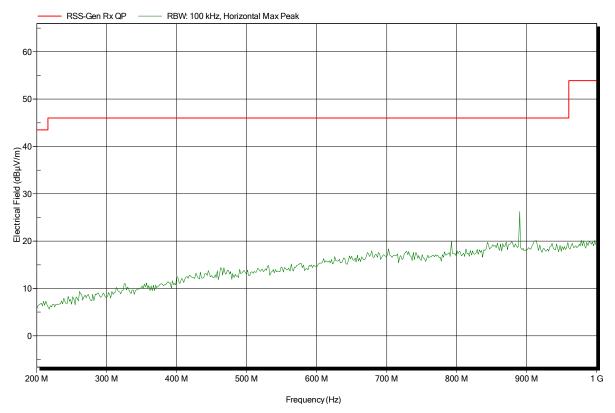
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 VDC (battery)
Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

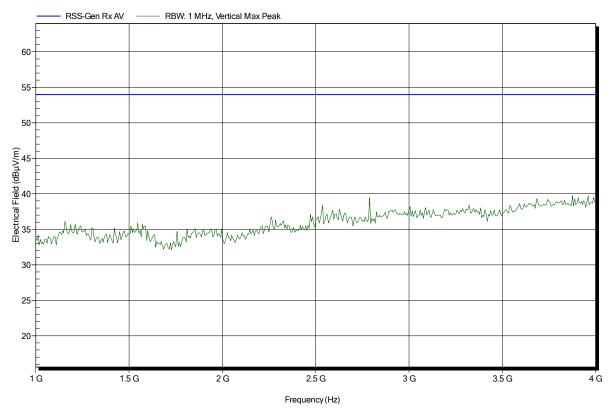
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

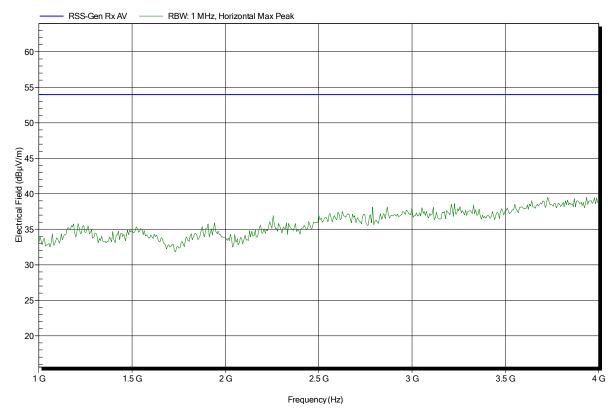
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

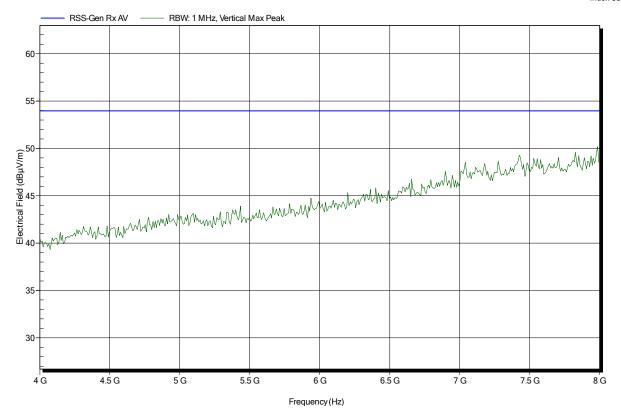
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-01

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: SEI

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 2x1.5 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-01

Note:

