

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. UNO
Additional Model(s) None

Brand Name(s) Vibratissimo

Hardware version V2.0

Firmware / Software version BLE-Stack SD110 V6.0.0

FCC-ID: 2ADAR504001 IC: 12372A-504001

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	2014-11-06
Date (s) of performance of tests	2014-12-03
Compiled by Matthias Handr	
Tested by (+ signature)	ik femal

General remarks:

The test results presented in this report relate only to the object tested.

Approved by (+ signature) Christian Weber

Date of issue 2015-01-19

Total number of pages: 78

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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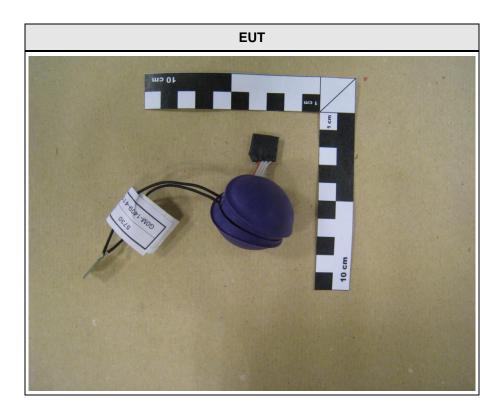


1 Equipment (Test item) Description

Description	electric device			
Model	Uno			
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	2ADAR504001			
IC	12372A-504001			
Equipment type	End product			
Radio type	Transceiver			
Radio technology	Bluetooth 4.0 Lo	w Energy		
Operating frequency range	2402 - 2480 MH	Z		
Assigned frequency band	2400 - 2483.5 M	Hz		
	F _{LOW} 2402 MHz			
Main test frequencies	F _{MID} 2442 MHz			
	F _{HIGH} 2480 MHz			
Spreading	Frequency Hopping			
Modulations	GFSK			
Number of channels	40			
Channel spacing	2MHz			
Number of antennas	1			
	Type integrated			
Antenna	Model	printed inverted F antenna		
Antonia	Manufacturer	unspecified		
	Gain	+2.75 dBi (manufacturer declaration)		
Manufacturer	Amor Gummiwaren GmbH August-Rost-Straße 4 99310 Arnstadt GERMANY			
	V _{NOM} 3.7 VDC			
Power supply	V _{MIN} N/A			
	V _{MAX} N/A			
	Model	FW7713		
AC/DC-Adaptor	Vendor	Friwo		
AO/DO-Adaptol	Input	100-240V AC, 50/60 Hz, 150 mA		
	Output	5.0 VDC, 100 mA		

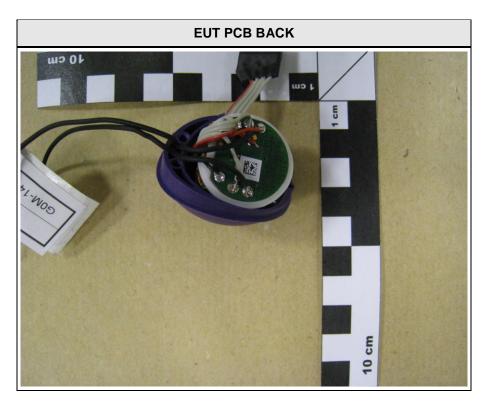


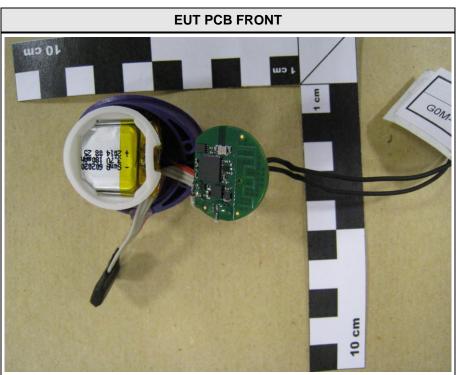
1.1 Photos – Equipment External





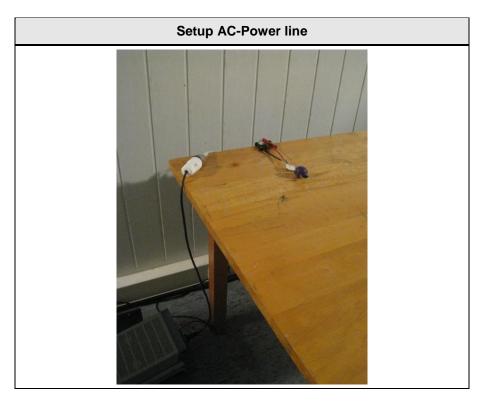
1.2 Photos – Equipment internal







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 :	AE : Auxiliary/Associated Equipment					



1.5 Test Modes

Mode #		Description
	General conditions:	EUT powered by internal 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 internal battery.
Receive Radio conditions:		Mode = standalone receive (scan mode) Spreading = FHSS Modulation = GFSK
AC Dowerline	General conditions:	EUT charged by AC/DC adaptor
AC-Powerline	Radio conditions:	Mode = Radio "OFF" during charging



1.6 Test Equipment Used During Testing

Measurement Software							
Description Manufacturer Name Version							
EMC Test Software							

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 dBµV. Any external preamplifiers used are taken into account through internal analyzer settings.

A.F.:

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

Reading on Analyzer (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 dB μ V + 26 dB = 47.5 dB μ V/m : 47.5 dB μ V/m - 57.0 dB μ V/m = -9.5 dB



2 Result Summary

FCC 47 CFR Part 15C, IC RSS-210						
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks		
RSS-Gen 6.6	Occupied Bandwidth	RSS-Gen 6.6	N/R	Informational only		
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			



3 Test Conditions and Results

 $\mathsf{F}_{\mathsf{MID}}$

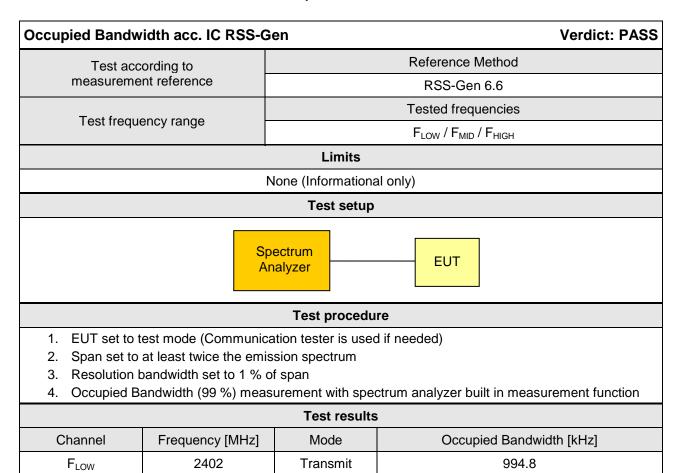
 F_{HIGH}

Comments:

3.1 Test Conditions and Results - Occupied Bandwidth

2440

2480



Transmit

Transmit

984.8

977.3



Occupied Bandwidth - FLOW

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

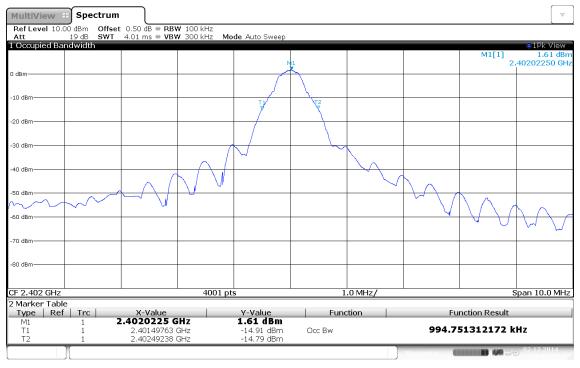
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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



Occupied Bandwidth - F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

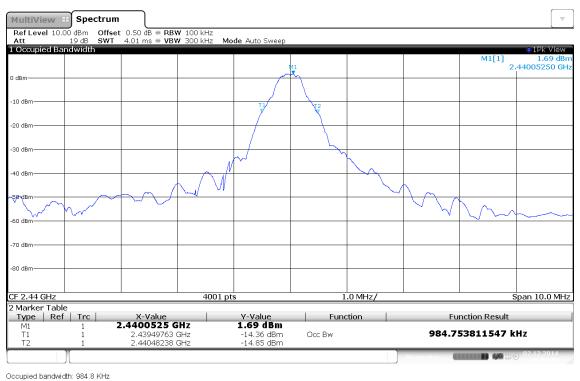
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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



Date: 2.DEC.2014 16:08:20



Occupied Bandwidth - FHIGH

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

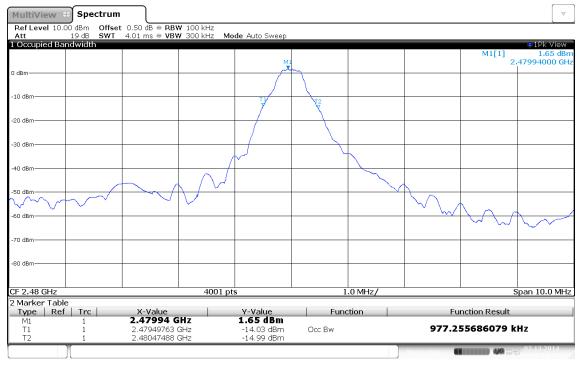
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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

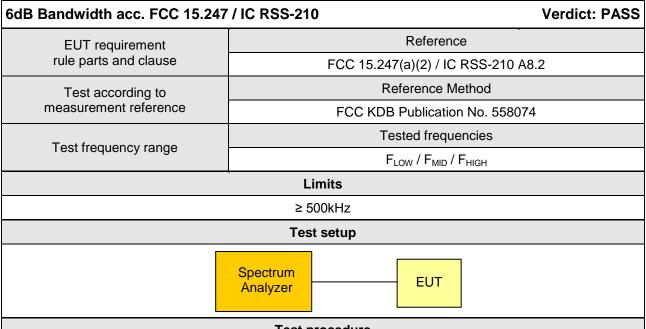
Note 2: OBW= 977.3 MHz



Occupied bandwidth: 977.3 KHz Date: 2.DEC.2014 16:11:42



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	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: UNO

Test Site: Eurofins Product Service GmbH

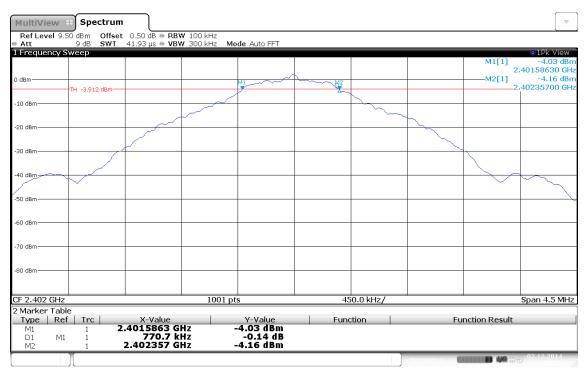
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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: 770.7 KHz > 500 KHz; verdict: PASS

Date: 2.DEC.2014 14:55:27



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: UNO

Test Site: Eurofins Product Service GmbH

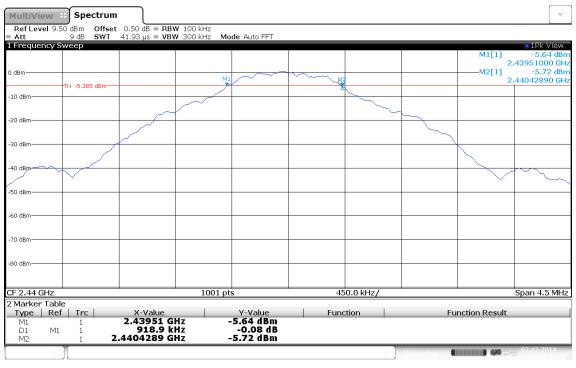
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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



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: UNO

Test Site: Eurofins Product Service GmbH

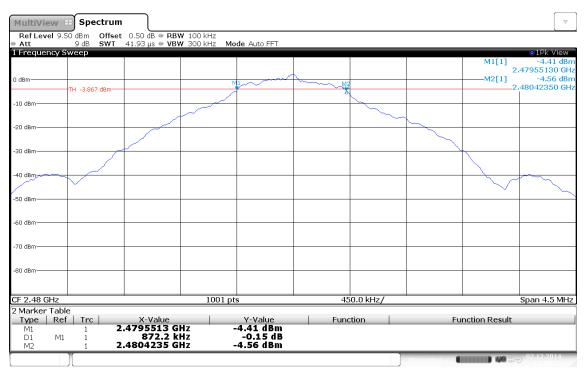
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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: 872.2 KHz > 500 KHz; verdict: PASS

Date: 2.DEC.2014 15:09:15

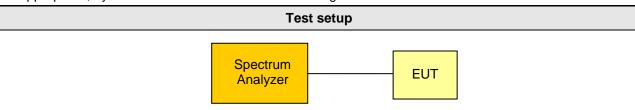


3.3 Test Conditions and Results - Maximum peak conducted power

Maximum 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	-210 A8.4		
Test according to	Reference Method	d		
measurement reference	FCC KDB Publication No. 558074			
Toot frequency 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 dBm)				

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.



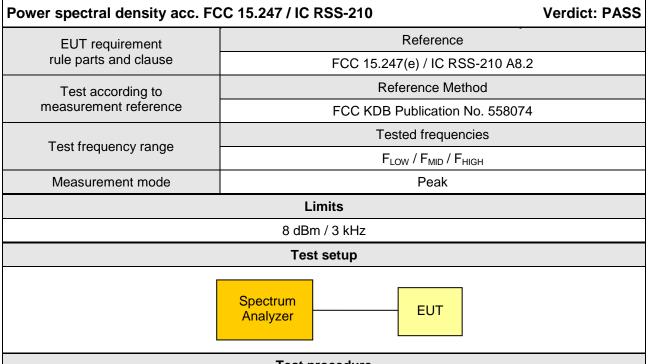
Test procedure

- 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 [VDC]	Mode	Peak power [dbm]	Peak power [W]	Limit [dBm]	Margin [dB]
F_{LOW}	2402	$V_{\text{nom}} = 3.7$	Transmit	2.33	0.00	30	-27.67
F _{MID}	2440	$V_{\text{nom}} = 3.7$	Transmit	2.38	0.00	30	-27.62
F _{HIGH}	2480	$V_{\text{nom}} = 3.7$	Transmit	2.39	0.00	30	-27.61
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	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. FCC 47 CFR 15.207 / IC RSS-Gen Verdict:					Verdict: PASS	
Test according referenced			Reference Method			
standards	S			ANSI C63.4		
Fully configured sample	e scanned over		F	requency range		
the following freque	ency range		0.1	5 MHz to 30 MHz		
Points of Appli	cation		Ар	plication Interface		
AC Mains			LISN			
EUT test me	ode		AC power line			
		Limits	s 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: UNO

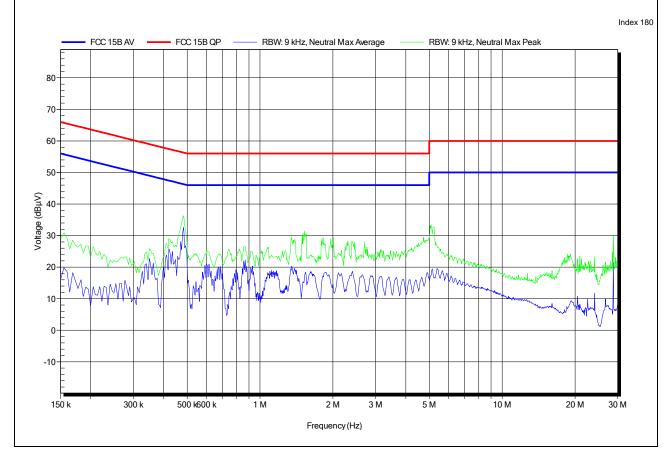
Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Unom: 120 V AC

LISN: ESH2-Z5 N Mode: charging Test Date: 2014-12-02

Note:





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: UNO

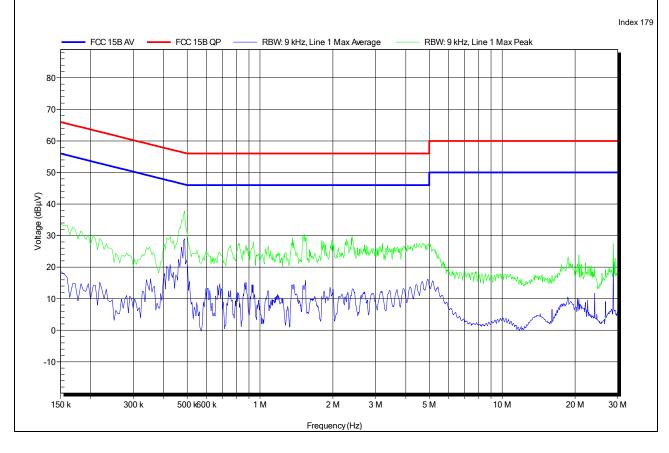
Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Unom: 120 V AC

LISN: ESH2-Z5 L Mode: charging Test Date: 2014-12-02

Note:





3.6 Test Conditions and Results – Band edge compliance

Band-edge compliance acc. FCC 15	Band-edge compliance acc. FCC 15.247 / IC RSS-210 Verdict: P			
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		
	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		

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: UNO

Test Site: Eurofins Product Service GmbH

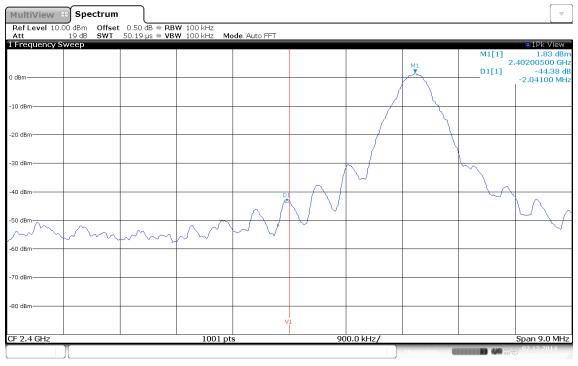
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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



Band-edge compliance

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1408-4154

Applicant: Amor Gummiwaren EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

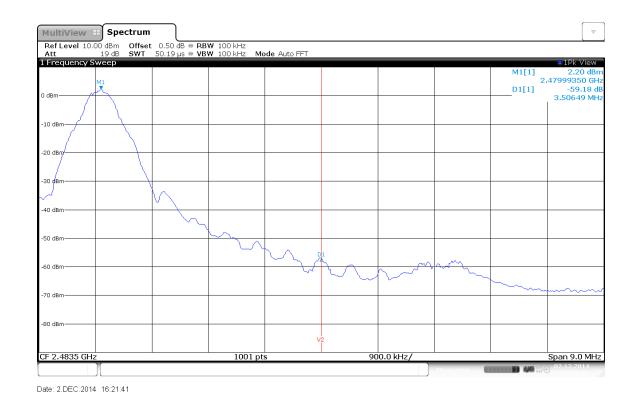
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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





3.7 Test Conditions and Results - Conducted spurious emissions

Conducted spurious emissions acc. FCC 15.247 / IC RSS-210 Verdict: PAS				
	Reference			
	FCC 15.247(d) / IC RSS-210 A8.5			
	Reference Method			
	FCC KDB Publication No. 558074			
	Tested frequencies			
10 MHz – 10 th Harmonic				
	Peak			
Lin	nits			
	Condition			
	Peak power measurement detector = Peak			
	Peak power measurement detector = RMS			
Test	setup			
	EUT			
	Lin			

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	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: UNO

Test Site: Eurofins Product Service GmbH

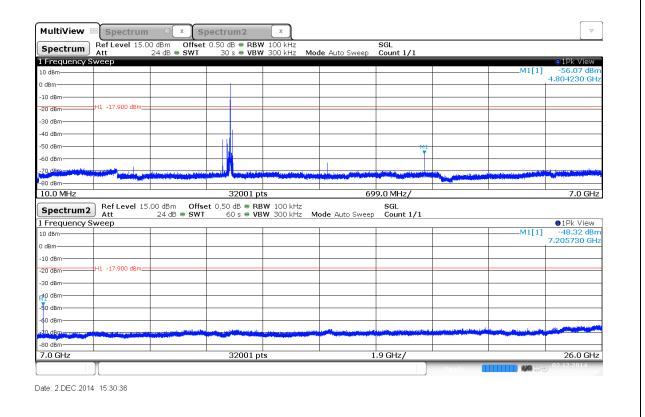
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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





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: UNO

Test Site: Eurofins Product Service GmbH

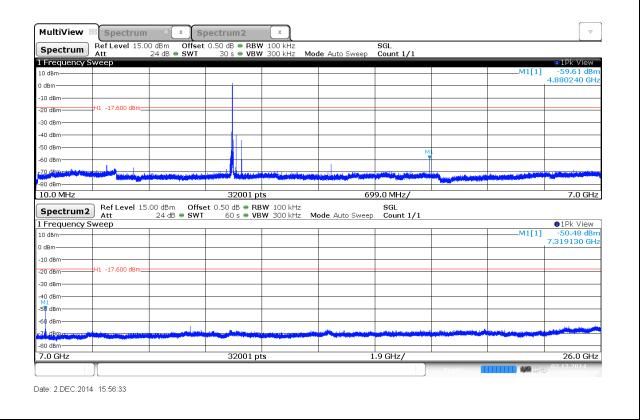
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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: UNO

Test Site: Eurofins Product Service GmbH

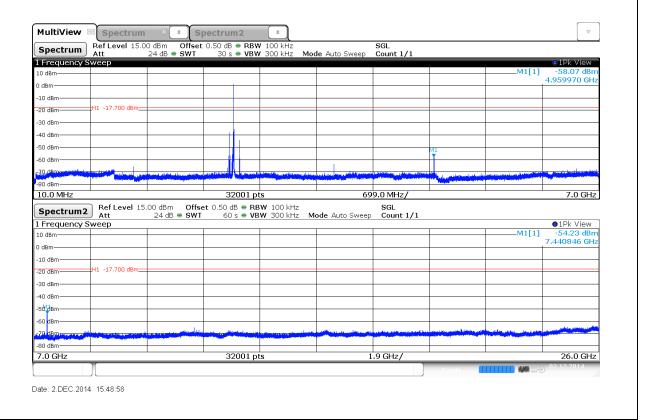
Operator: Wilfried Treffke Test Conditions: Tnom / Vnom

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



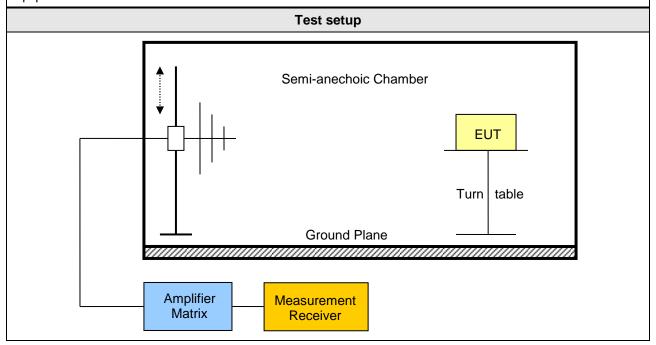


3.8 Test Conditions and Results - Transmitter radiated emissions

Transmitter radiated emissions acc. FCC 47 CFR 15.247 / IC RSS-210 Verdict: PASS								
Test according refe	renced	Reference Method						
standards		FCC 15.247(d) / IC RSS-210 A8.5						
Test according	to	Reference Method						
measurement refe		FCC KDB Publication No. 558074 / ANSI C63.4						
T		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.





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	2327	55.36	pk	ver	74.00	3	-18.64
F _{LOW}	2402	Transmit	2327	28.33	RMS	ver	54.00	3	-25.67
F _{LOW}	2402	Transmit	2327	53.84	pk	hor	74.00	3	-20.16
F _{LOW}	2402	Transmit	2327	27.54	RMS	hor	54.00	3	-26.46
F _{LOW}	2402	Transmit	2383	56.15	pk	ver	74.00	3	-17.85
F _{LOW}	2402	Transmit	2383	29.23	RMS	ver	54.00	3	-24.77
F _{LOW}	2402	Transmit	2383	55.90	pk	hor	74.00	3	-18.10
F _{LOW}	2402	Transmit	2383	29.89	RMS	hor	54.00	3	-24.11
F _{LOW}	2402	Transmit	2400	88.01	pk	ver	95.00	3	-06.99
F _{LOW}	2402	Transmit	4792	43.50	pk	ver	74.00	3	-30.50
F _{MID}	2440	Transmit	4872	44.92	pk	ver	74.00	3	-29.08
F _{HIGH}	2480	Transmit	2483.5	47.05	pk	ver	74.00	3	-26.95
F _{HIGH}	2480	Transmit	2483.5	38.62	RMS	ver	54.00	3	-15.38
F _{HIGH}	2480	Transmit	2483.5	41.70	pk	hor	74.00	3	-32.30
F _{HIGH}	2480	Transmit	2483.5	32.49	RMS	hor	54.00	3	-21.51
F _{HIGH}	2480	Transmit	2496.6	41.40	pk	hor	74.00	3	-32.60
F _{HIGH}	2480	Transmit	2496.6	25.76	RMS	hor	54.00	3	-28.24
F _{HIGH}	2480	Transmit	2496.9	46.68	pk	ver	74.00	3	-27.32
F _{HIGH}	2480	Transmit	2496.9	26.07	RMS	ver	54.00	3	-27.93
F _{HIGH}	2480	Transmit	4960	43.67	pk	ver	74.00	3	-30.33
F _{HIGH}	2480	Transmit	7440	41.40	pk	ver	74.00	3	-32.60
Comments: * Division distance between EUT and recognized outcome									

Comments: * Physical distance between EUT and measurement antenna.



Amplifier

Matrix

3.9 Test Conditions and Results - Receiver radiated emissions

eceiver 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 mod	Э				
		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			
•		Semi-anechoic Ch	amber EUT Turn tabl	e	
	<u></u>	Ground Plane			

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	1918	37.42	pk	54	-16.58

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: UNO

Test Site: Eurofins Product Service GmbH

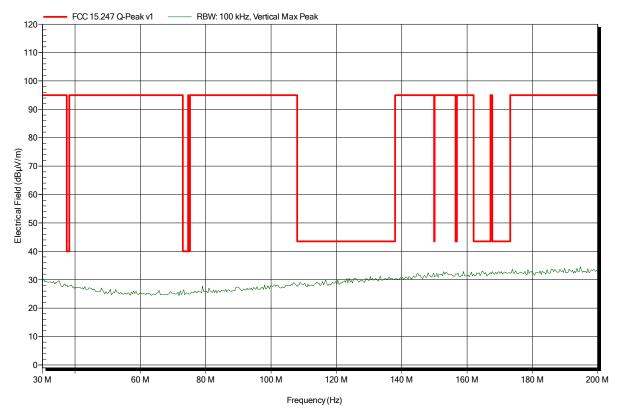
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3 m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03 Note: worst case





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

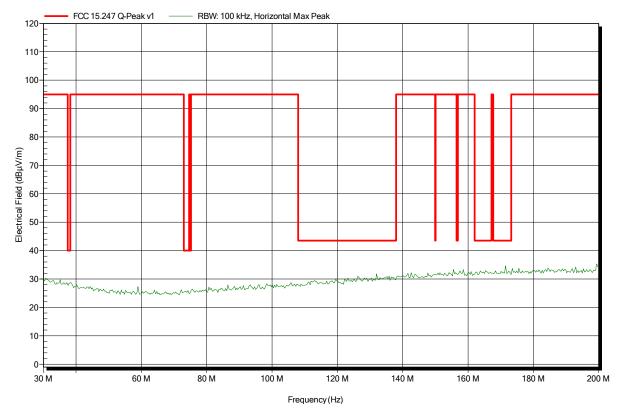
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HK 116, Horizontal

Measurement distance: 3 n

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03 Note: worst case





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

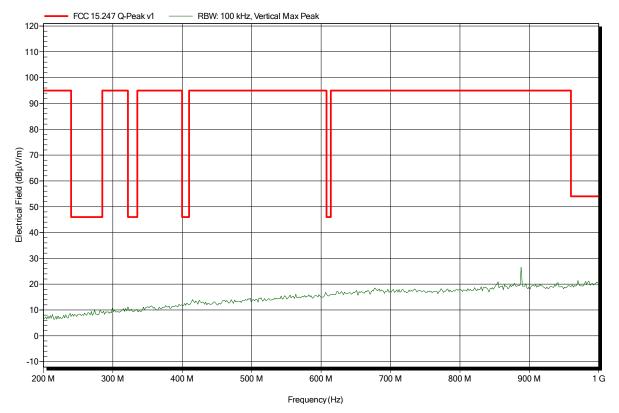
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3 n

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03 Note: worst case





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

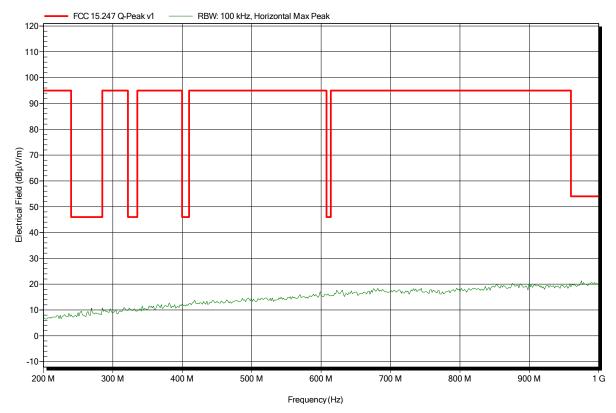
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7 VDC battery
Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3 n

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03 Note: worst case





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

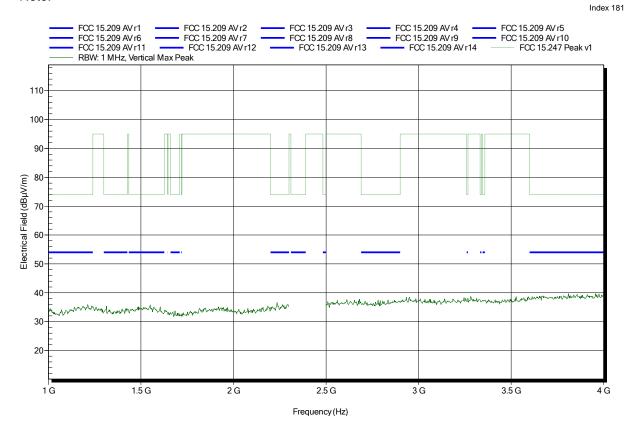
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-02





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

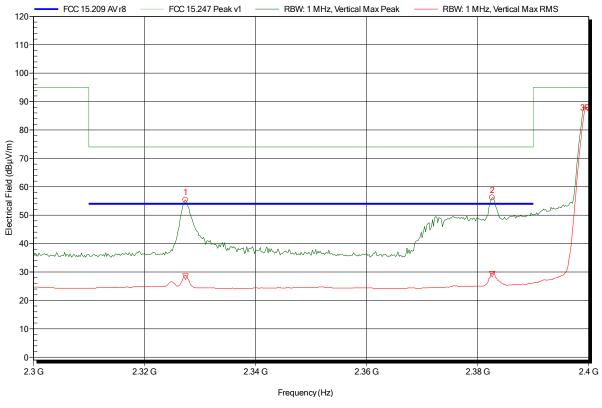
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-02 Note: lower bandedge



Frequency 2.327 GHz	Peak 55.36 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -18.64 dB	Peak Status Pass
2.383 GHz	56.15 dBµV/m	74 dBµV/m	-17.85 dB	Pass
2.4 GHz	88.01 dBµV/m	95 dBµV/m	-6.99 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.327 GHz	28.33 dBµV/m	54 dBµV/m	-25.67 dB	Pass
2.383 GHz	29.23 dBµV/m	54 dBµV/m	-24.77 dB	Pass
2.4 GHz	87.79 dBµV/m			



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

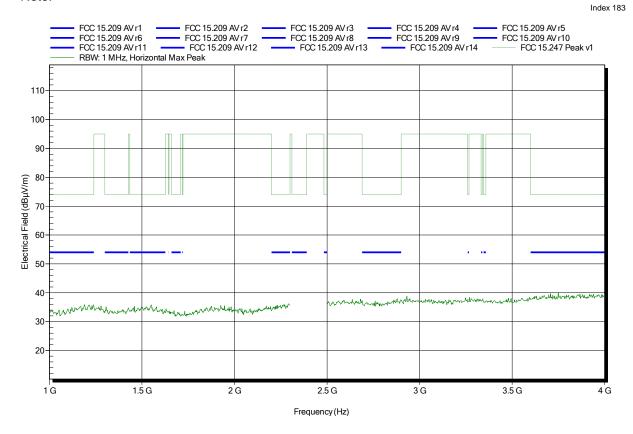
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-02





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

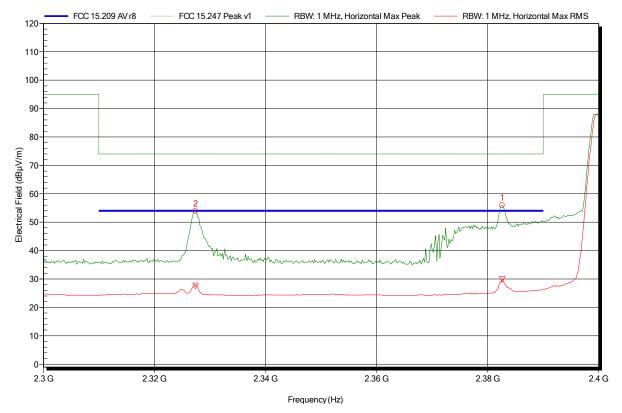
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-02 Note: lower bandedge



Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.327 GHz	53.84 dBμV/m	74 dBμV/m	-20.16 dB	Pass
2.383 GHz	55.9 dBμV/m	74 dBμV/m	-18.1 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.327 GHz	27.54 dBμV/m	54 dBµV/m	-26.46 dB	Pass
2.383 GHz	29.89 dBμV/m	54 dBµV/m	-24.11 dB	Pass



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

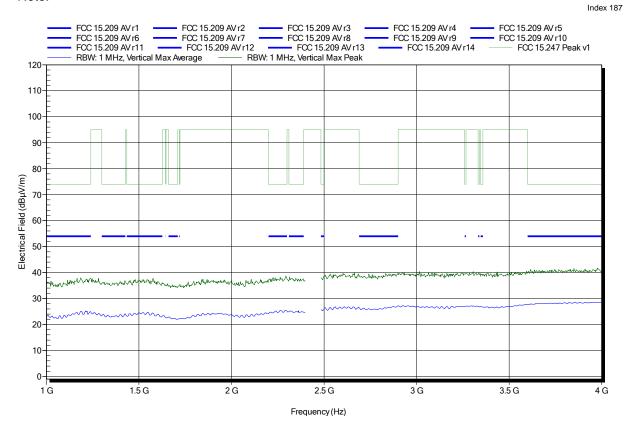
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2440MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

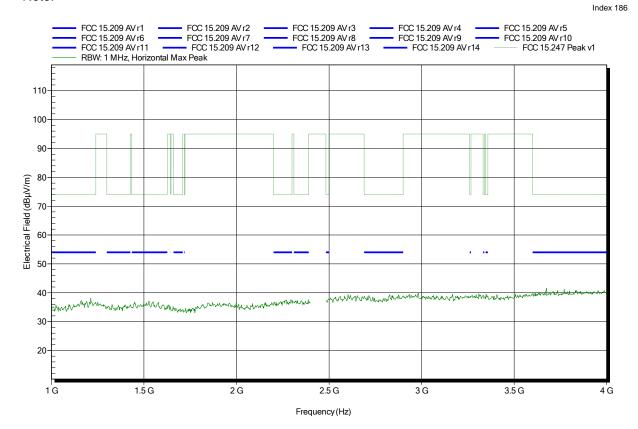
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2440MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

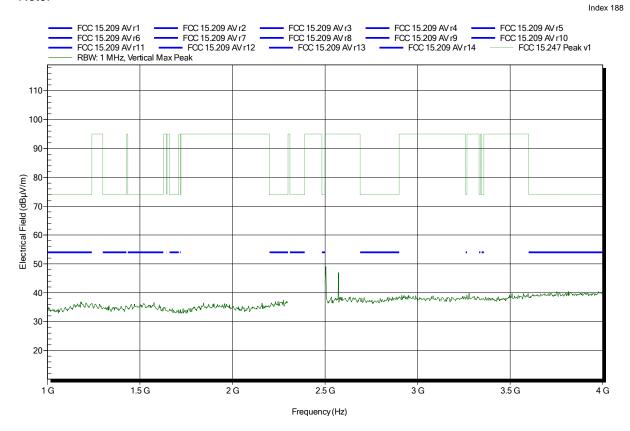
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

2.4835 GHz

2.4969 GHz

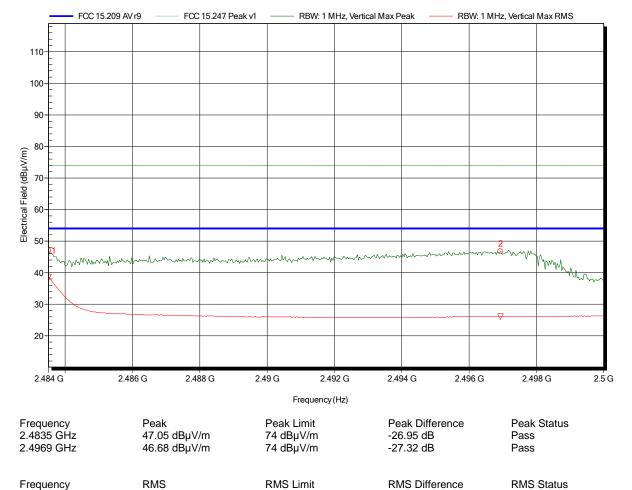
Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03 Note: upper bandedge

38.62 dBµV/m

26.07 dBµV/m

Index 191



54 dBµV/m

54 dBµV/m

-15.38 dB

-27.93 dB

Pass

Pass



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

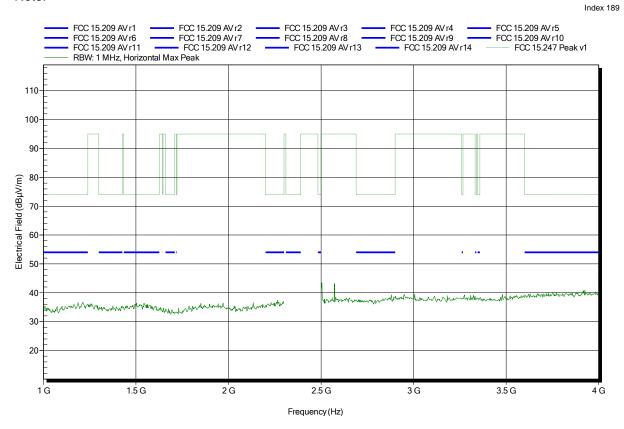
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

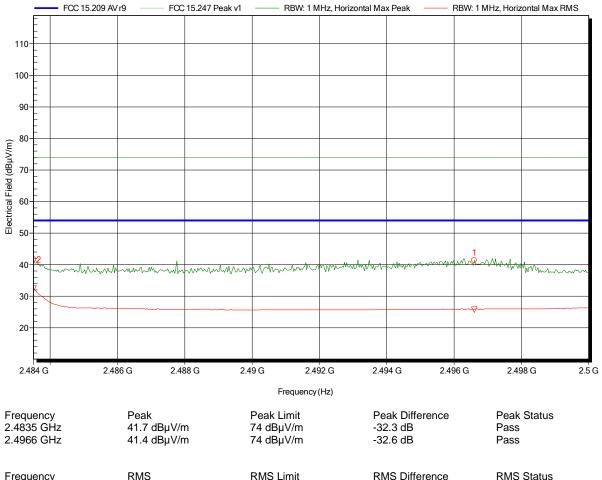
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03 Note: upper bandedge





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

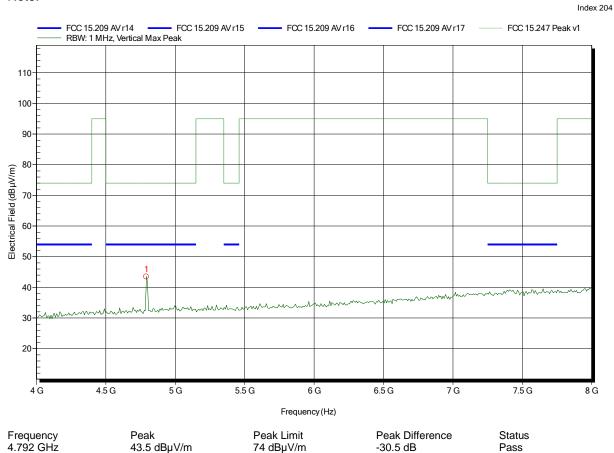
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

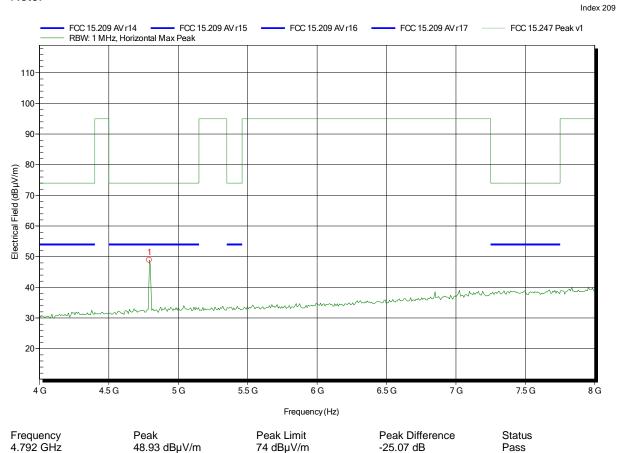
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

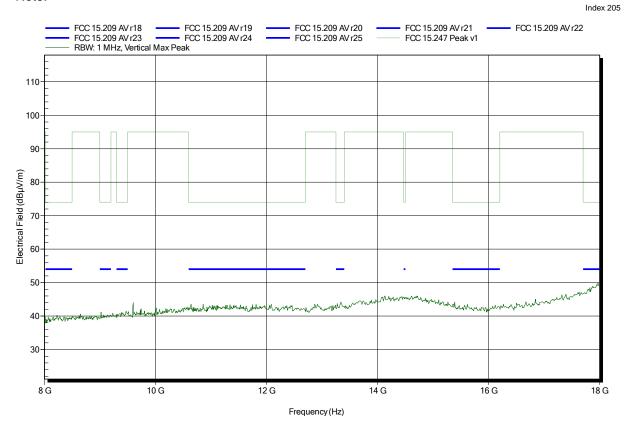
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

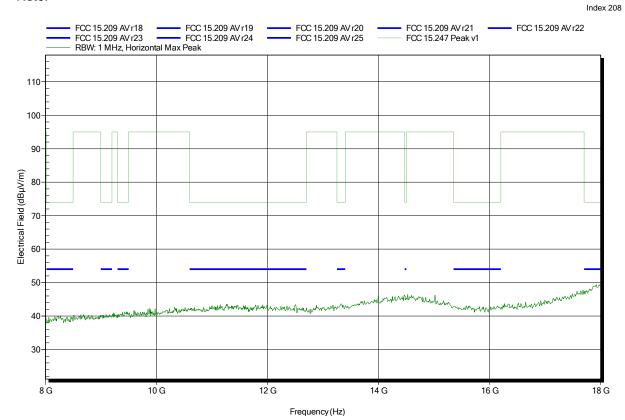
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

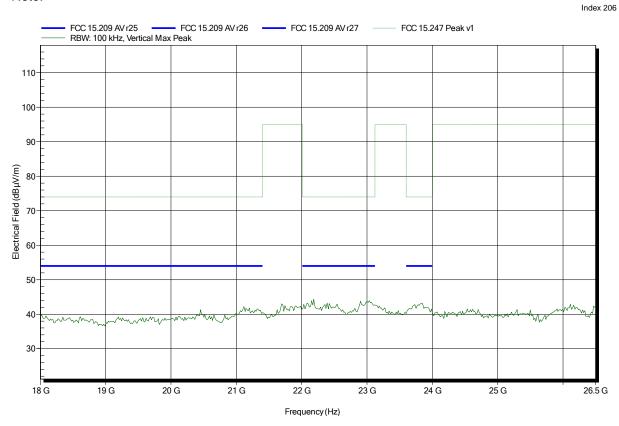
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HL 025, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

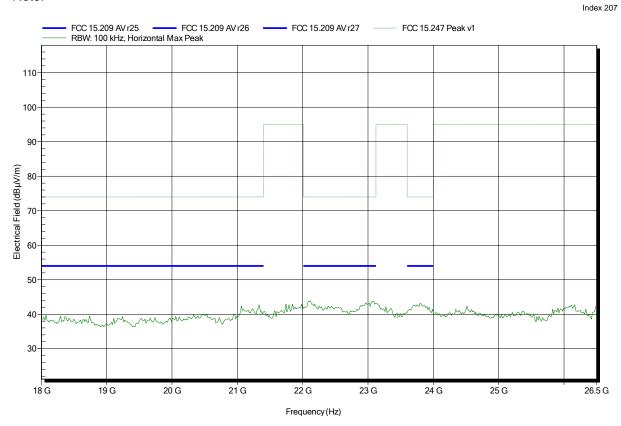
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery
Antenna: Rohde & Schwarz HL 025, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2402MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

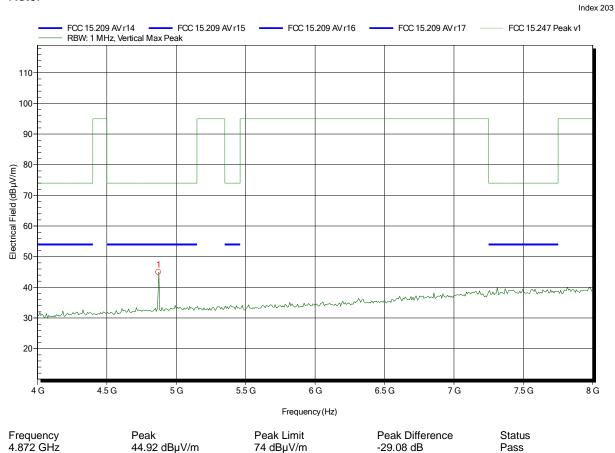
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2440MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

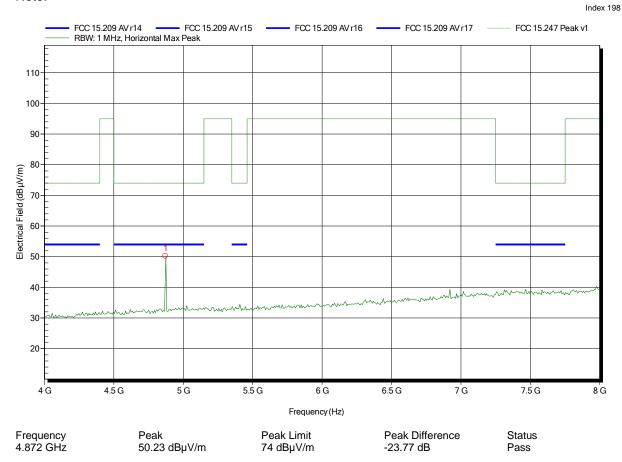
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2440MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

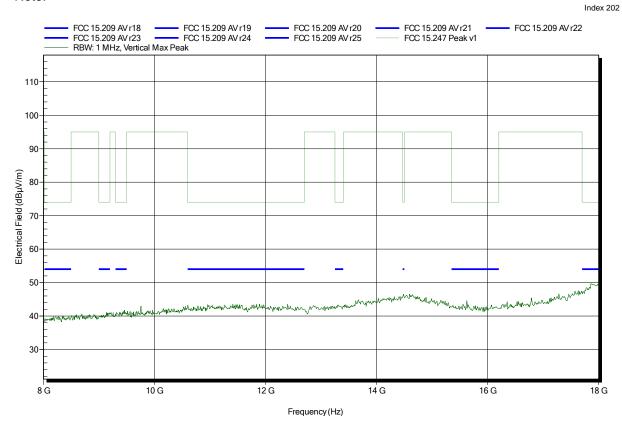
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2440MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

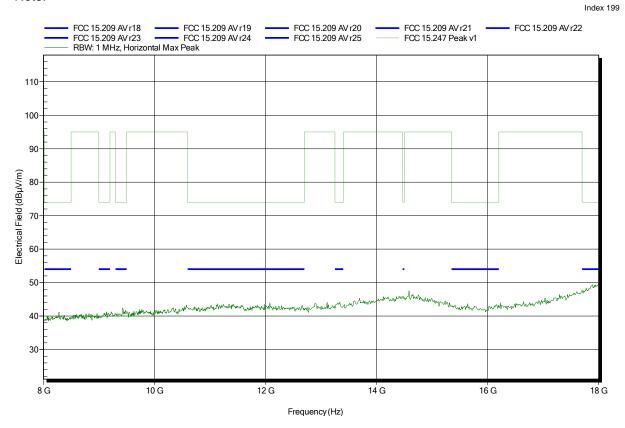
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2440MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

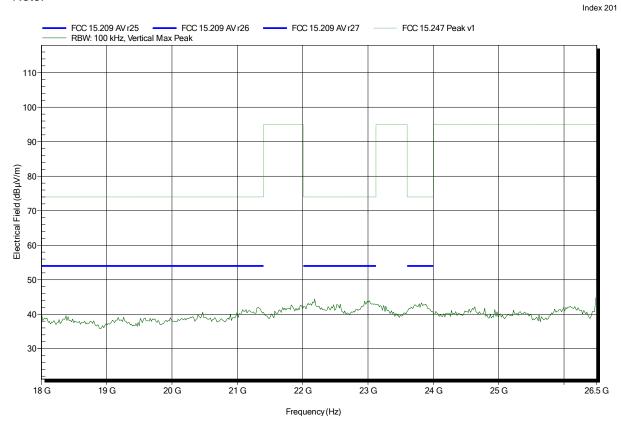
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HL 025, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2440MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

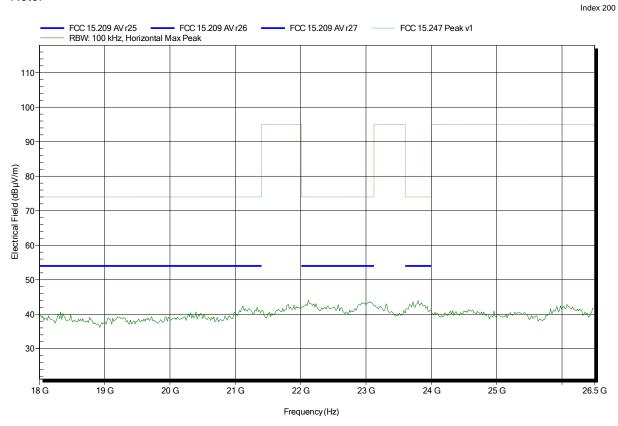
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery
Antenna: Rohde & Schwarz HL 025, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2440MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

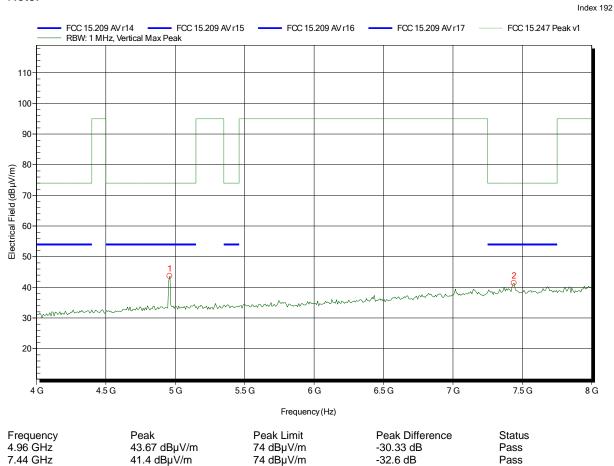
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

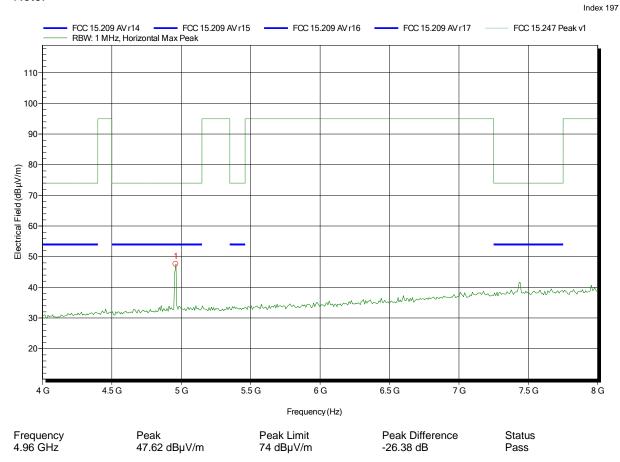
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

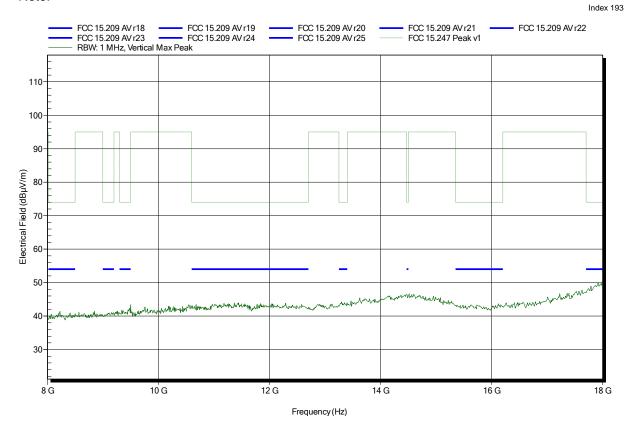
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

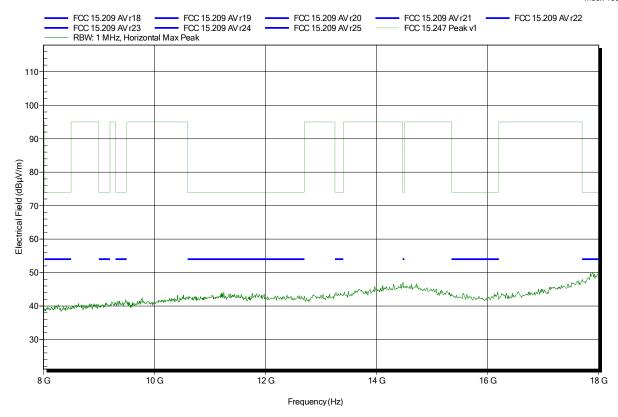
Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

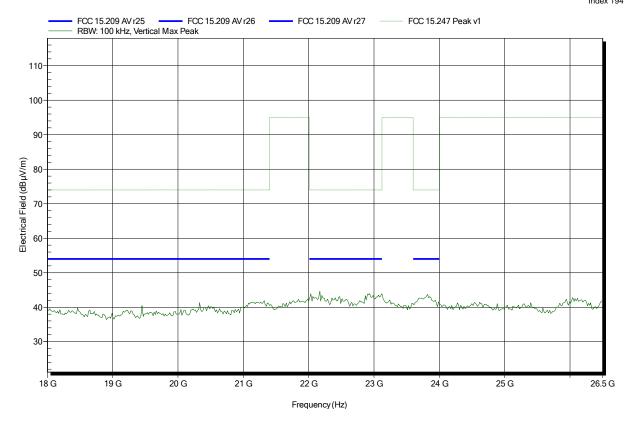
Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HL 025, Vertical

Measurement distance: 1 m converted to 3m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

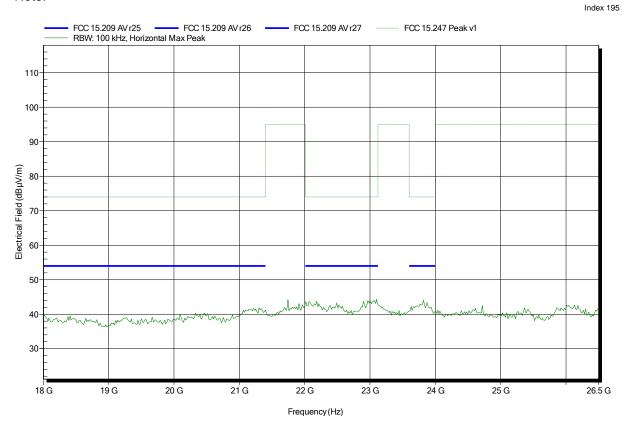
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery
Antenna: Rohde & Schwarz HL 025, Horizontal

Measurement distance: 1 m converted to 3m

Mode: TX; 2480MHz, 1Mbps, Pmax

Test Date: 2014-12-03





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: UNO

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HK 116, Vertical

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-03

Note:

RSS-Gen Rx QP RBW: 100 kHz, Vertical Max Peak 65 60 55-50 45 Electrical Field (dBµV/m) 20-15-10-5 60 M 80 M 100 M 120 M 140 M 160 M 180 M 200 M 30 M Frequency (Hz)



Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

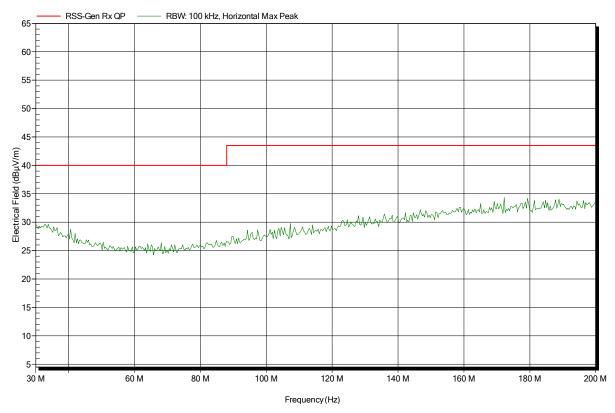
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery
Antenna: Rohde & Schwarz HK 116, Horizontal

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-03

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

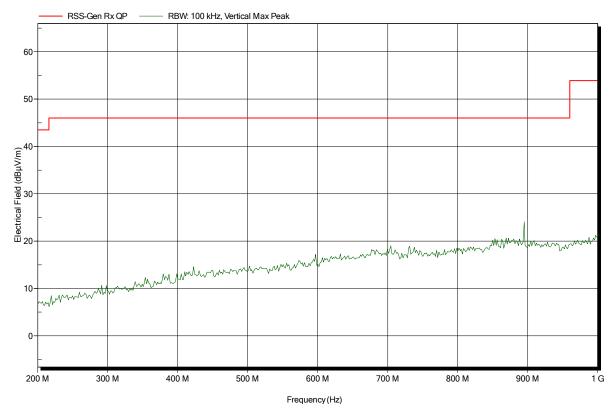
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HL 223, Vertical

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-03

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

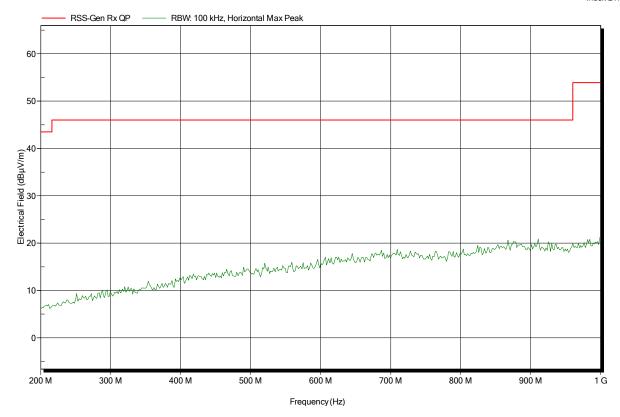
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Rohde & Schwarz HL 223, Horizontal

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-03

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

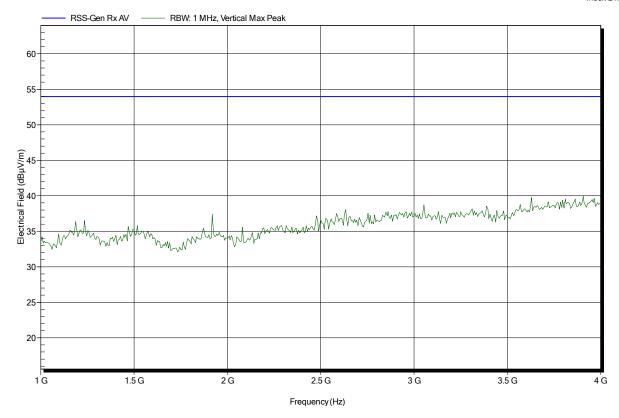
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-03

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

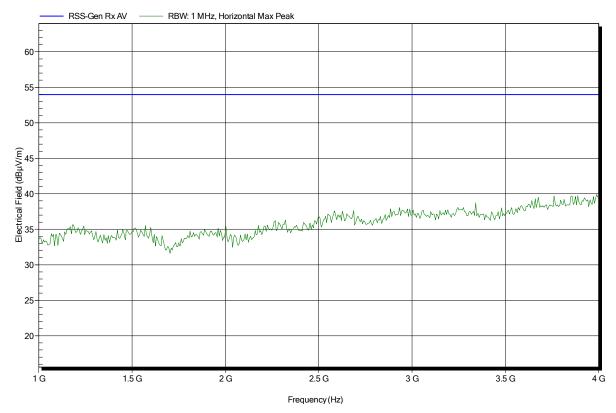
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-03

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

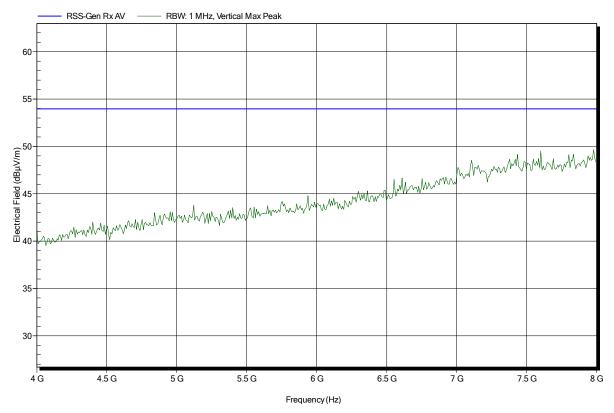
Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Vertical

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-03

Note:





Project number: G0M-1409-4154

Applicant: Amor Gummiwaren GmbH

EUT Name: electric device

Model: UNO

Test Site: Eurofins Product Service GmbH

Operator: Mr. Handrik

Test Conditions: Tnom: 24°C, Vnom: 3.7VDC battery Antenna: Schwarzbeck BBHA 9120D, Horizontal

Measurement distance: 3 m

Mode: RX; 2440MHz Test Date: 2014-12-03

Note:

