

FCC TEST REPORT	
FCC 47 CFR Part 15C Industry Canada RSS-247 Frequency hopping systems operating within the 2400 – 2483.5 MHz band	
Report Reference No.....	G0M-1503-4620-TFC247BT-V01
Testing Laboratory	Eurofins Product Service GmbH
Address.....	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	  A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A
Applicant's name	BARTEC PIXAVI AS
Address.....	Domkirkeplassen 2 4006 Stavanger NORWAY
Test specification:	
Standard	47 CFR Part 15C RSS-247, Issue 1, 2015-05 RSS-Gen, Issue 4, 2014-11 ANSI C63.10:2013 ANSI C63.4:2014
Test scope.....	complete Radio compliance test
Equipment under test (EUT):	
Product description	Wireless camera (Standard version)
Model No.	OrbitX ST
Additional Model(s)	OrbitX EX
Brand Name(s)	None
Hardware version	Rev 2
Firmware / Software version	478
	FCC-ID: YML-ORBITX IC: 9249A-ORBITX
Test result	Passed

Possible test case verdicts:

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

Testing:

Test Lab Temperature.....: 20 – 23 °C

Test Lab Humidity: 32 – 38 %

Date of receipt of test item: 2015-04-20

Date (s) of performance of tests: 2015-04-27 - 2015-05-05

Compiled by: Christian Weber

Tested by (+ signature): Wilfried Treffke
(Responsible for Test) *W. Treffke*

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

Date of issue: 2015-08-04

Total number of pages: 172

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:

BARTEC PIXAVI

BARTEC PIXAVI

Stavanger, Norway April-23-15

Title	BARTEC PIXAVI OrbitX Model Differences Declaration
Document ID	PX-ORBITX-Models-DoC
Revision	1
Project	OrbitX
Author	David Wightman
Created	23.04.2015
Last	23.04.2015
Nature of document	CONFIDENTIAL
Contents	Contents: Bartec Pixavi ORBITX RoHS Declaration of Conformity

Revision History

Revision	Date	Change	Revised by
1	23.04.2015		

1

Test Report No.: G0M-1503-4620-TFC247BT-V01

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

BARTEC PIXAVI

BARTEC PIXAVI

Stavanger, Norway April-23-15

BARTEC PIXAVI OrbitX Model Differences Statement

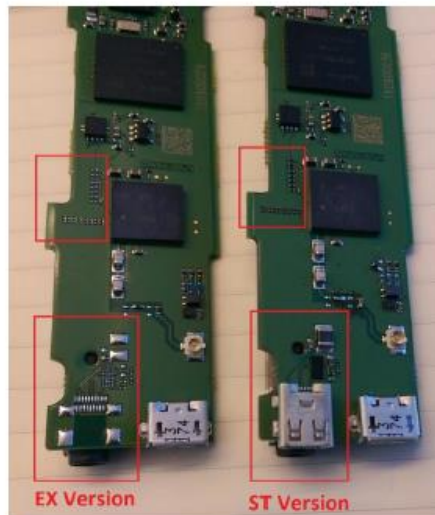
To whom it may concern,

The OrbitX comes in two models, an OrbitX-EX model and an OrbitX-ST model. Both models are identical except for the following differences highlighted below. There are no differences to the radio section between models.

HDMI

The **ST model** includes circuitry to support a Micro-HDMI connection and mechanics to give access to the HDMI port.

The **EX model** uses the same PCB, but does not have the HDMI components populated.



BARTEC PIXAVI

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Stavanger, Norway April-23-15

SILICON POTTING

The EX model is made for Hazardous areas and therefore is filled with a silicon potting in the following area. The antenna is not enclosed in Silicon.

The ST model is not filled with silicon potting.



Version History

Version	Issue Date	Remarks	Revised by
01	2015-08-04	Initial Release	

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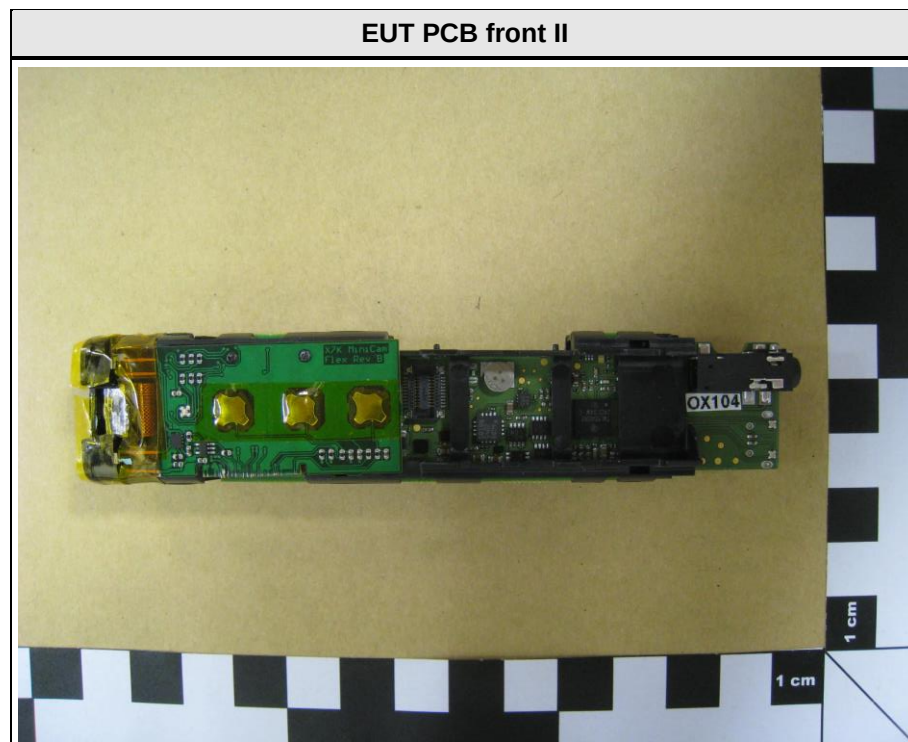
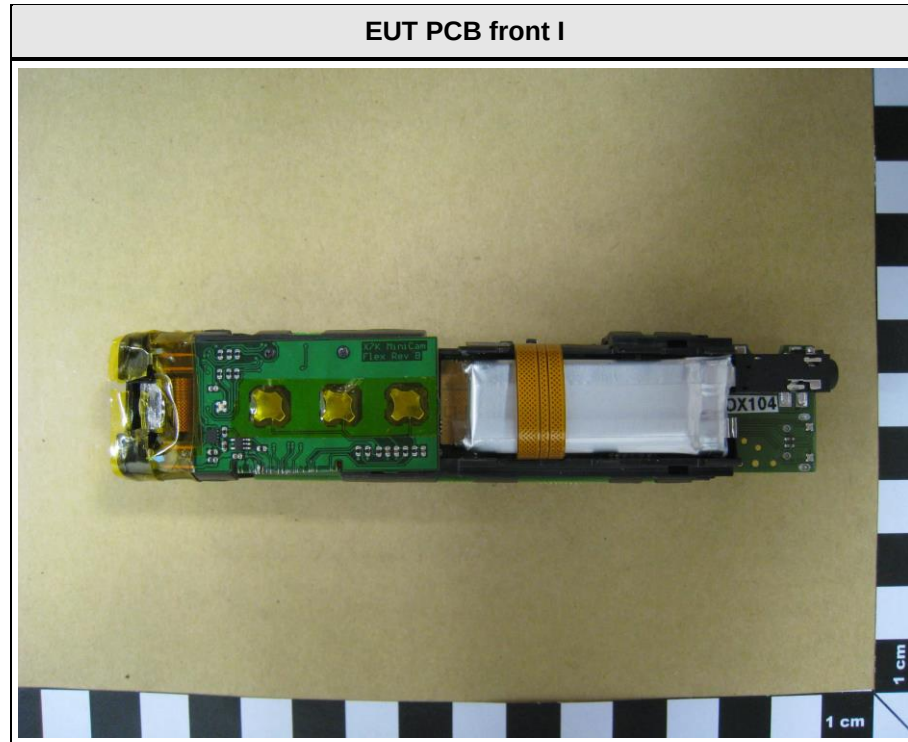
1 Equipment (Test item) Description

Description	Wireless camera (Standard version)	
Model	OrbitX ST	
Additional Model(s)	OrbitX EX	
Brand Name(s)	None	
Serial number	None	
Hardware version	Rev 2	
Software / Firmware version	478	
FCC-ID	YML-ORBITX	
IC	9249A-ORBITX	
Equipment type	End product	
Radio type	Transceiver	
Radio technology	Bluetooth	
Operating frequency range	2402 - 2480 MHz	
Assigned frequency band	2400 - 2483.5 MHz	
Main test frequencies	F _{LOW}	2402 MHz
	F _{MID}	2441 MHz
	F _{HIGH}	2480 MHz
Spreading	FHSS	
Modulations	GFSK, PI/4-DQPSK, 8-PSK	
Number of channels	79 hopping channels at all	
Channel spacing	1 MHz	
Number of antennas	1	
Antenna	Type	integrated
	Model	unspecified
	Manufacturer	Custom
	Gain	0 dBi
Manufacturer	BARTEC PIXAVI AS Domkirkeplassen 2 4006 Stavanger NORWAY	
Power supply	V _{NOM}	3.7 VDC
	V _{MIN}	3.1 VDC
	V _{MIN}	4.2 VDC
AC/DC-Adaptor	Model	GT-41078-0506-0.4-USB
	Vendor	Globtek
	Input	100-240VAC - 50-60Hz
	Output	5.6 V DC

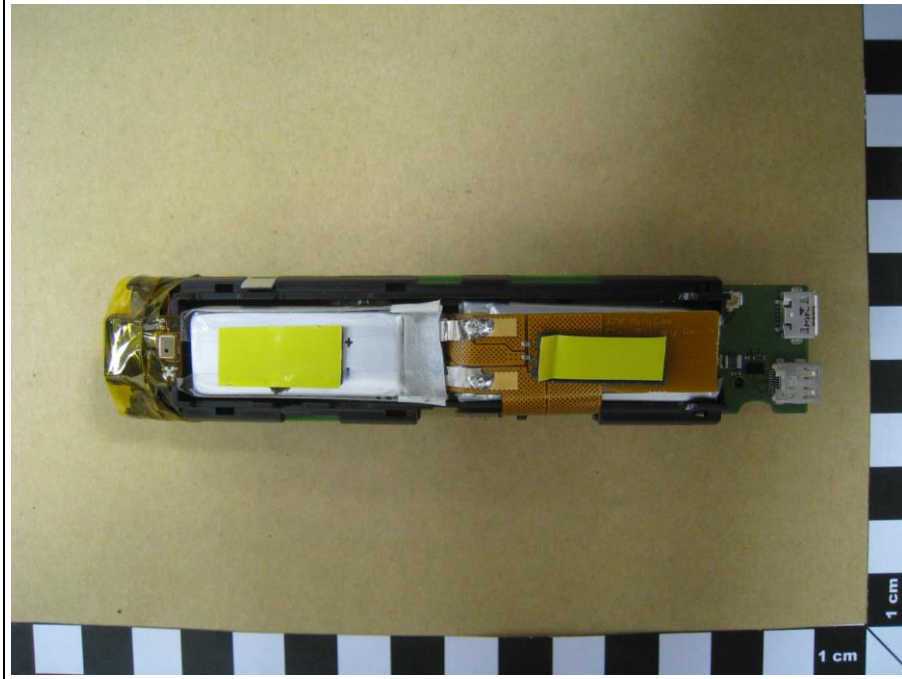
1.1 Photos – Equipment External



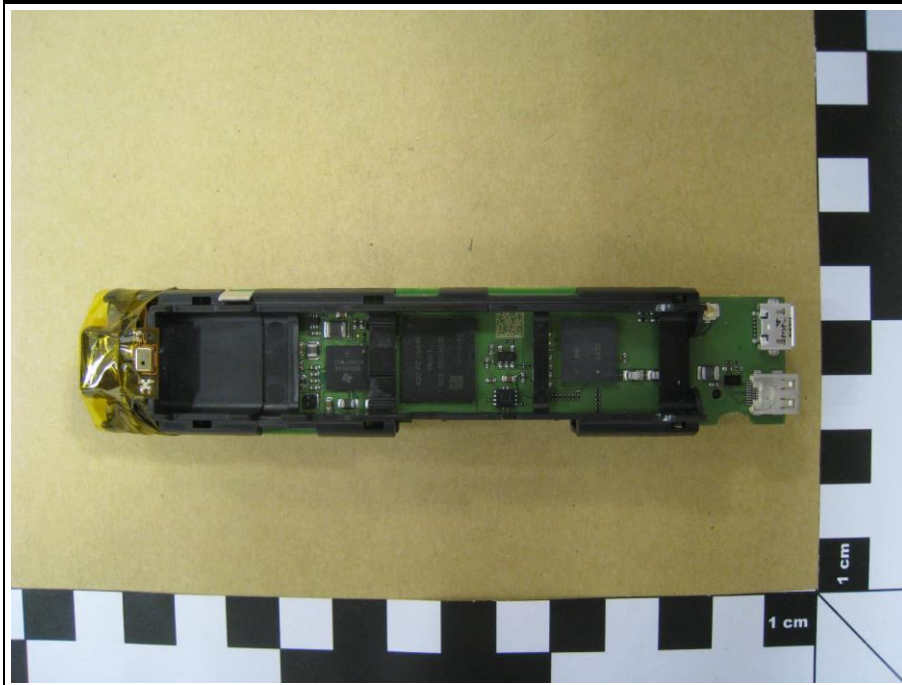
1.2 Photos – Equipment internal



EUT PCB back I



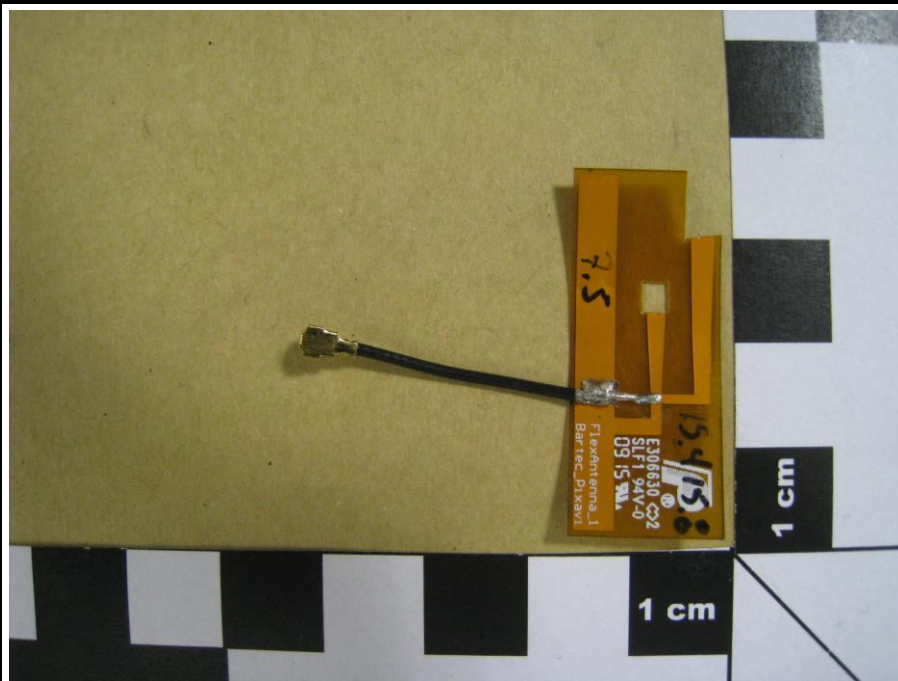
EUT PCB back II



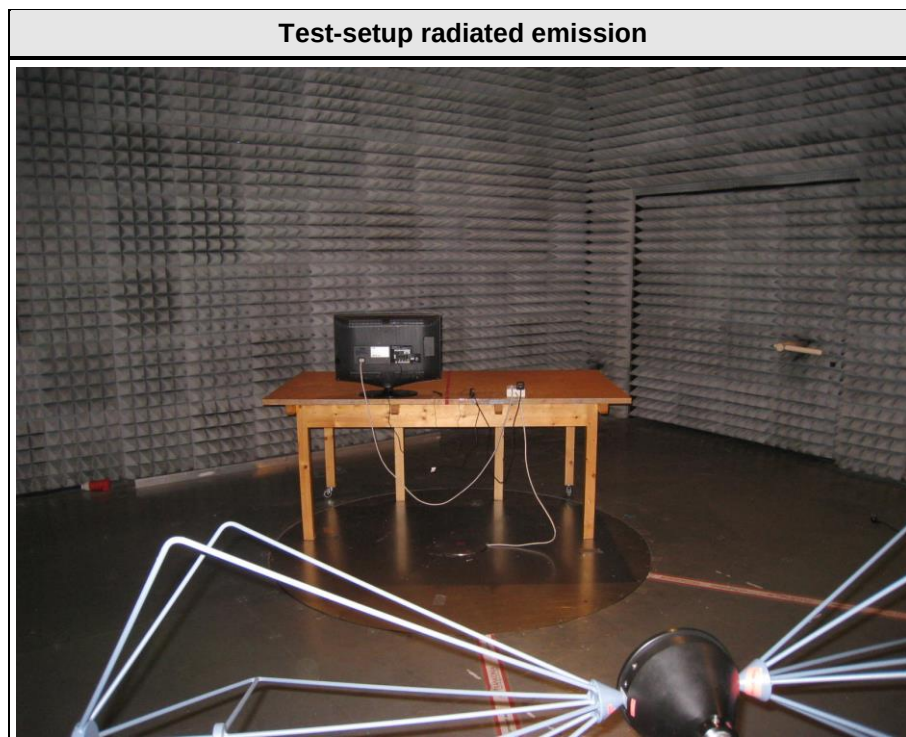
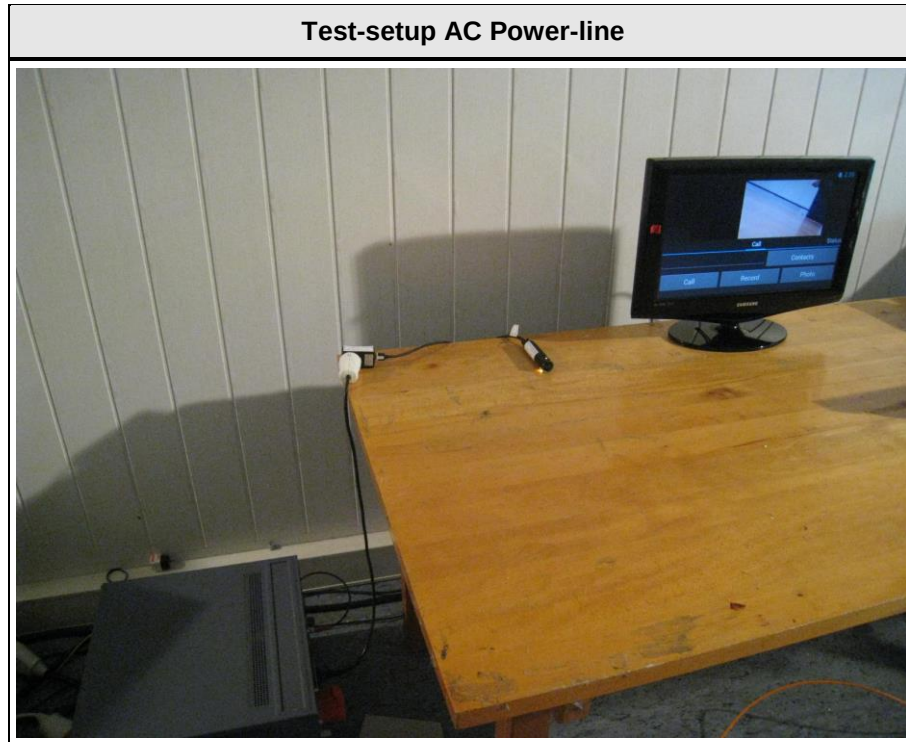
EUT antenna chassis



EUT antenna



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	Monitor	Samsung	LE22B350F2W	
AE	Laptop	Dell	Latitude E6420	
AE	AC/DC adaptor	Globtec	GT-41078-0506-0.4-USB	
SIM	Bluetooth Tester	R&S	CBT	
AE : Auxiliary/Associated Equipment				

1.5 Test Modes

Mode #	Description	
DH5-Sngl	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = GFSK Packet type = DH5 Data rate = 1 Mbps Duty cycle = 78 % Power level = Maximum
2DH5-Sngl	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = $\pi/4$ -DQPSK Packet type = 2DH5 Data rate = 2 Mbps Duty cycle = 78 % Power level = Maximum
3DH5-Sngl	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = 8-DPSK Packet type = 3DH5 Data rate = 3 Mbps Duty cycle = 78 % Power level = Maximum
DH5-Hop	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Modulation = GFSK Packet type = DH5 Data rate = 1 Mbps Duty cycle = 78 % Power level = Maximum

2DH5-Hop	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Modulation = $\pi/4$ -DQPSK Packet type = 2DH5 Data rate = 2 Mbps Duty cycle = 78 % Power level = Maximum
3DH5-Hop	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Modulation = 8-DPSK Packet type = 3DH5 Data rate = 3 Mbps Duty cycle = 78 % Power level = Maximum
Receive	General conditions:	EUT powered by laboratory power supply.
	Radio conditions:	Mode = standalone receive Spreading = Hopping
AC-Powerline	General conditions:	EUT powered by commercial AC/DC-Adapter
	Radio conditions:	Mode = standalone transmit Spreading = Hopping Power level = Maximum

1.6 Test Equipment Used During Testing

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

20dB Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Number of hopping frequencies					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Time of occupancy					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Maximum peak conducted power					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Band edge compliance					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Conducted spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2015-02	2016-02

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 1	EF00062	-	-
Spectrum Analyzer	R&S	FSIQ26	EF00242	2015-04	2016-04
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2014-03	2017-03
LPD Antenna	R&S	HL 025	EF00327	2013-02	2016-02

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

1.7 Sample emission level calculation

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

Reading:

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

A.F.:

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

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

Net:

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

Limit:

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

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

Margin:

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

Example only:

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

2 Result Summary

FCC 47 CFR Part 15C, IC RSS-210				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 6.6	Occupied Bandwidth	ANSI C63.10	N/R	Informational only
FCC § 15.247(a)(1) IC RSS-247 § 5.1	20 dB Bandwidth	ANSI C63.10	PASS	
FCC § 15.247(a)(1)(iii) IC RSS-247 § 5.1	Number of hopping frequencies	ANSI C63.10	PASS	
FCC § 15.247(a)(1) IC RSS-247 § 5.1	Frequency hopping channel separation	ANSI C63.10	PASS	
FCC § 15.247(a)(1)(iii) IC RSS-247 § 5.1	Time of occupancy (Dwell time)	ANSI C63.10	PASS	
FCC § 15.247(b)(1) IC RSS-247 § 5.4	Maximum peak conducted power	ANSI C63.10	PASS	
47 CFR 15.207 IC RSS-247 § 3.1	AC power line conducted emissions	ANSI C63.4	PASS	
FCC § 15.247(d) IC RSS-247 § 5.5	Band edge compliance	ANSI C63.10	PASS	
FCC § 15.247(d) IC RSS-247 § 5.5	Conducted spurious emissions	ANSI C63.10	PASS	
FCC § 15.247(d) FCC § 15.209 IC RSS-247 § 5.5	Transmitter radiated spurious emissions	ANSI C63.10	PASS	
IC RSS-247 § 3.1	Receiver radiated spurious emissions	ANSI C63.10	PASS	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Occupied Bandwidth

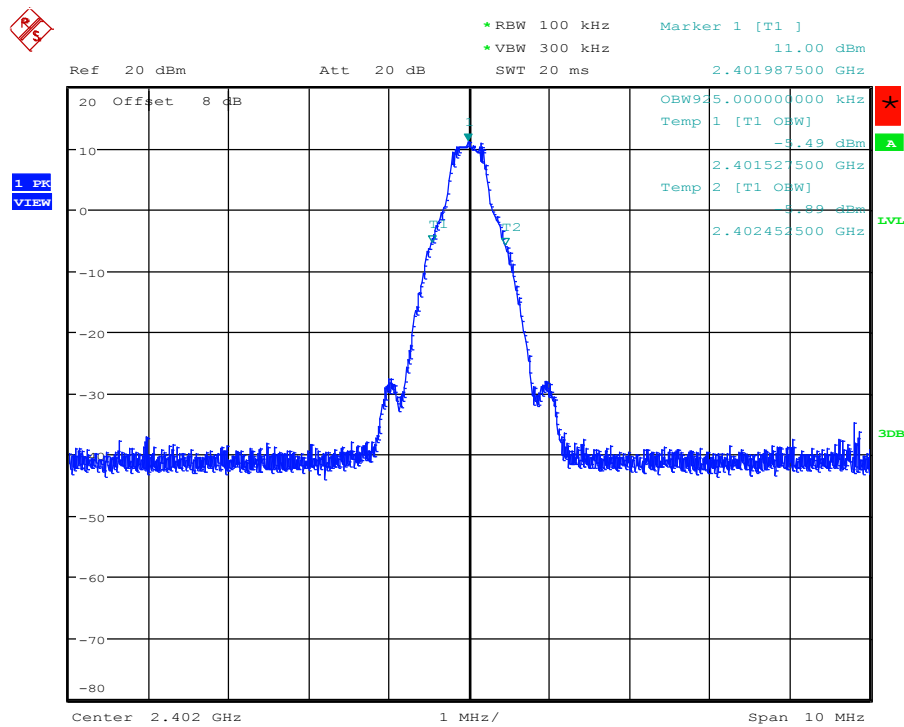
Occupied Bandwidth acc. IC RSS-Gen				Verdict: PASS
Test according to measurement reference		Reference Method		
		ANSI C63.10		
Test frequency range		Tested frequencies		
		F _{LOW} / F _{MID} / F _{HIGH}		
Limits				
None (Informational only)				
Test setup				
Spectrum Analyzer EUT				
Test procedure				
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function				
Test results				
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]	
F _{LOW}	2402	DH5-Sngl	925	
F _{MID}	2441	DH5-Sngl	925	
F _{HIGH}	2480	DH5-Sngl	922.5	
F _{LOW}	2402	2DH5-Sngl	1230	
F _{MID}	2441	2DH5-Sngl	1232.5	
F _{HIGH}	2480	2DH5-Sngl	1235	
F _{LOW}	2402	3DH5-Sngl	1240	
F _{MID}	2441	3DH5-Sngl	1240	
F _{HIGH}	2480	3DH5-Sngl	1247.5	
Comments:				

Occupied Bandwidth – DH5-Sngl F_{LOW}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant:	Bartec-Pixavi AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	M. Handrik
Test Conditions:	Tnom / Vnom
Mode:	Tx, GFSK, 2402 MHz, modulated
Test Date:	2015-04-29
Verdict:	NONE (INFORMATION ONLY)
Note 1:	A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2:	conducted measurement



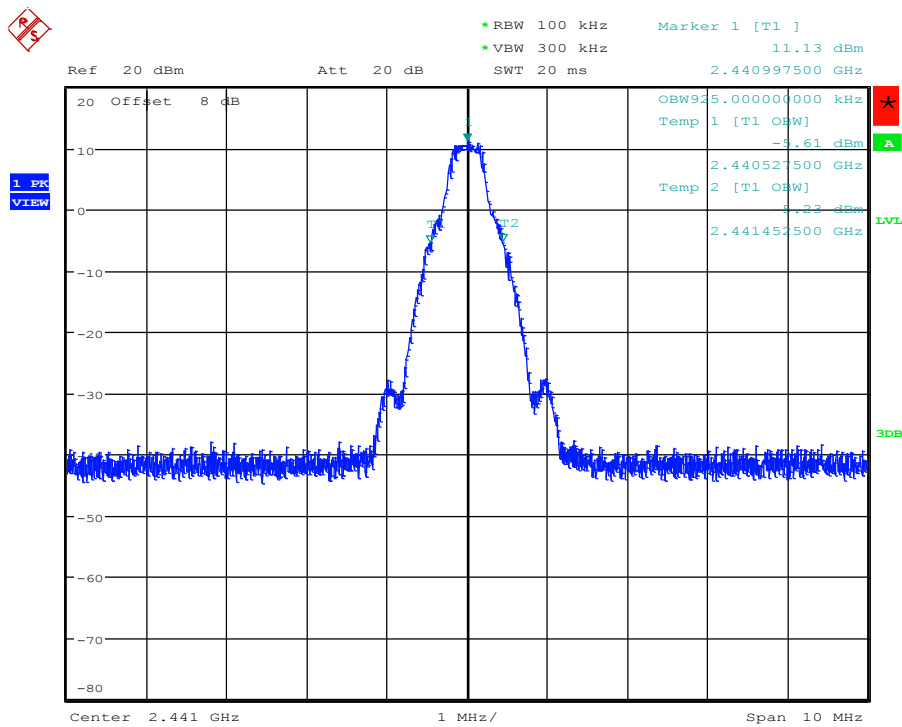
Occupied bandwidth: 925 KHz
Date: 29.APR.2015 11:30:12

Occupied Bandwidth – DH5-Sngl F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, GFSK, 2441 MHz, modulated
Test Date: 2015-04-29
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Test Report No.: G0M-1503-4620-TFC247BT-V01

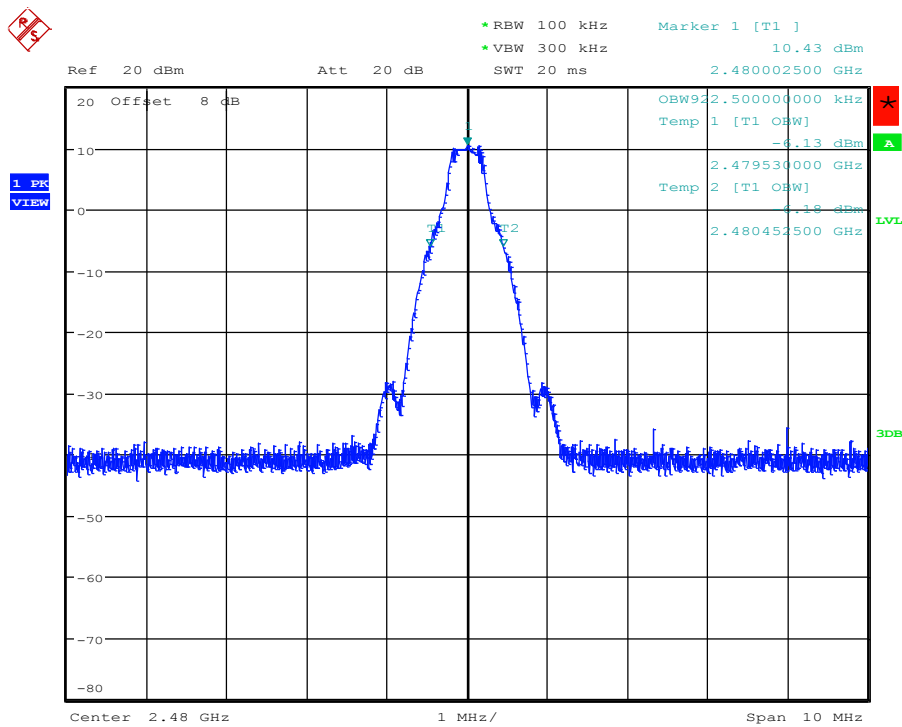
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – DH5-Sngl F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, GFSK, 2480 MHz, modulated
Test Date: 2015-04-29
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 92.5 KHz

Date: 29.APR.2015 11:33:49

Test Report No.: G0M-1503-4620-TFC247BT-V01

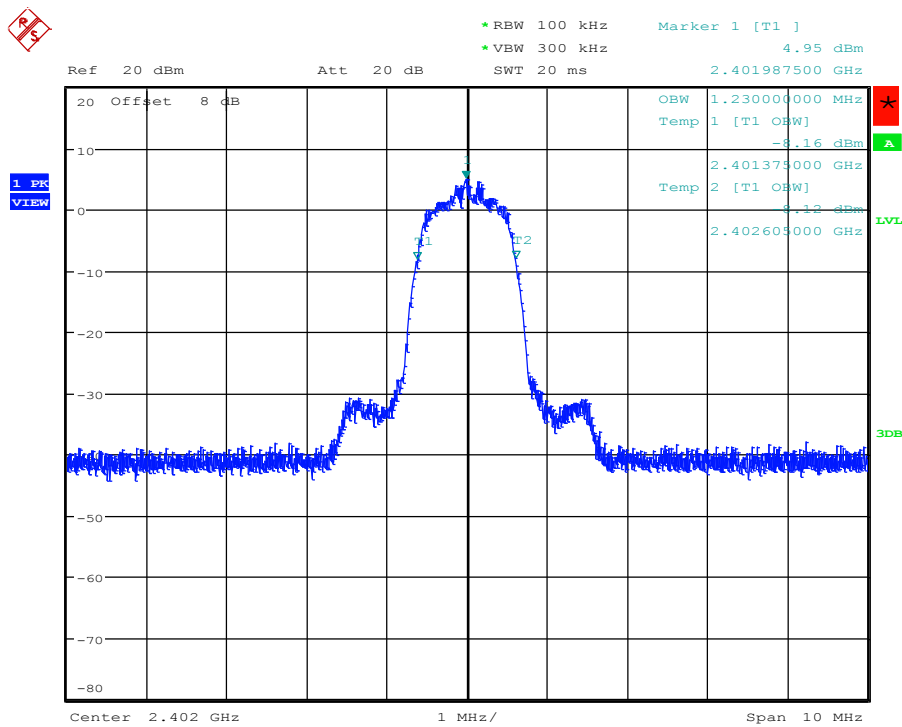
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – 2-DH5-Sngl F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, PI/4-DQPSK, 2402 MHz, modulated
Test Date: 2015-04-29
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 1230 KHz

Date: 29.APR.2015 11:37:38

Test Report No.: G0M-1503-4620-TFC247BT-V01

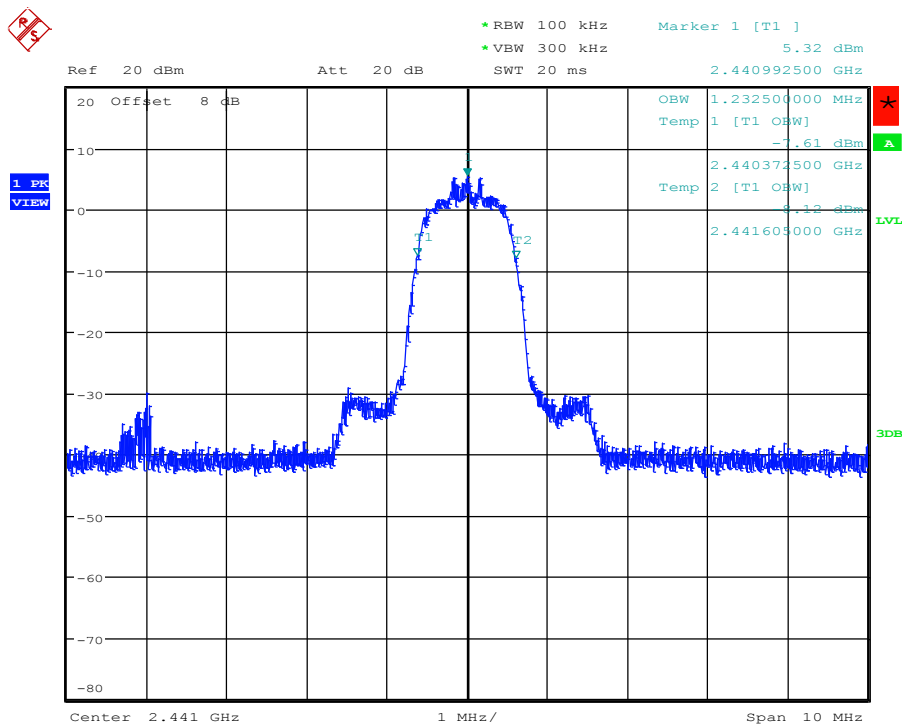
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – 2-DH5-Sngl F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, PI/4-DQPSK, 2441 MHz, modulated
Test Date: 2015-04-29
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 1232.5 KHz

Date: 29.APR.2015 11:36:28

Test Report No.: G0M-1503-4620-TFC247BT-V01

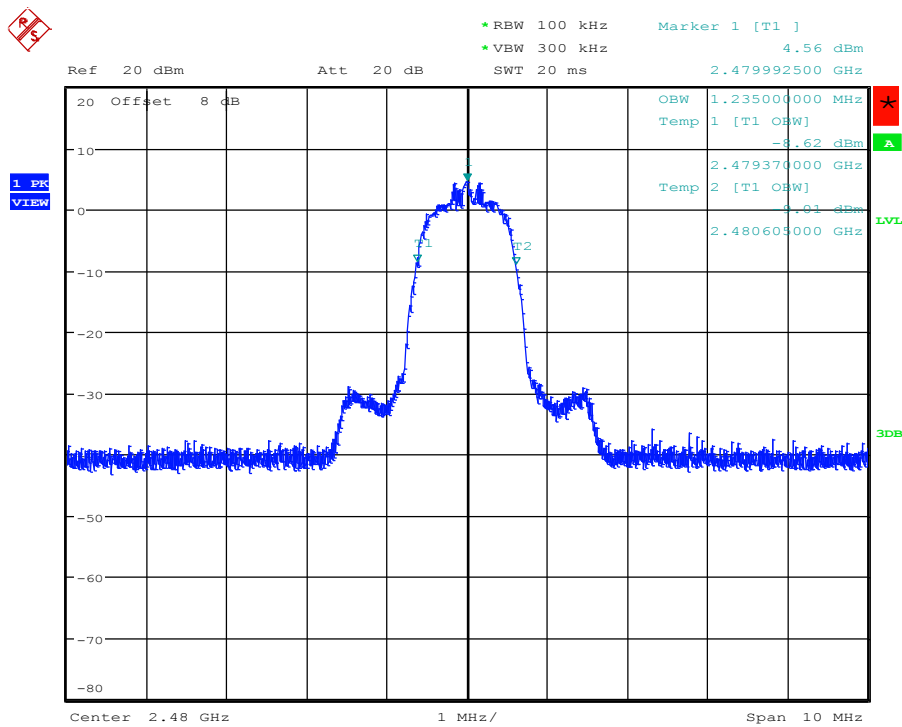
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – 2-DH5-Sngl F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, PI/4-DQPSK, 2480 MHz, modulated
Test Date: 2015-04-29
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 1235 KHz

Date: 29.APR.2015 11:35:13

Test Report No.: G0M-1503-4620-TFC247BT-V01

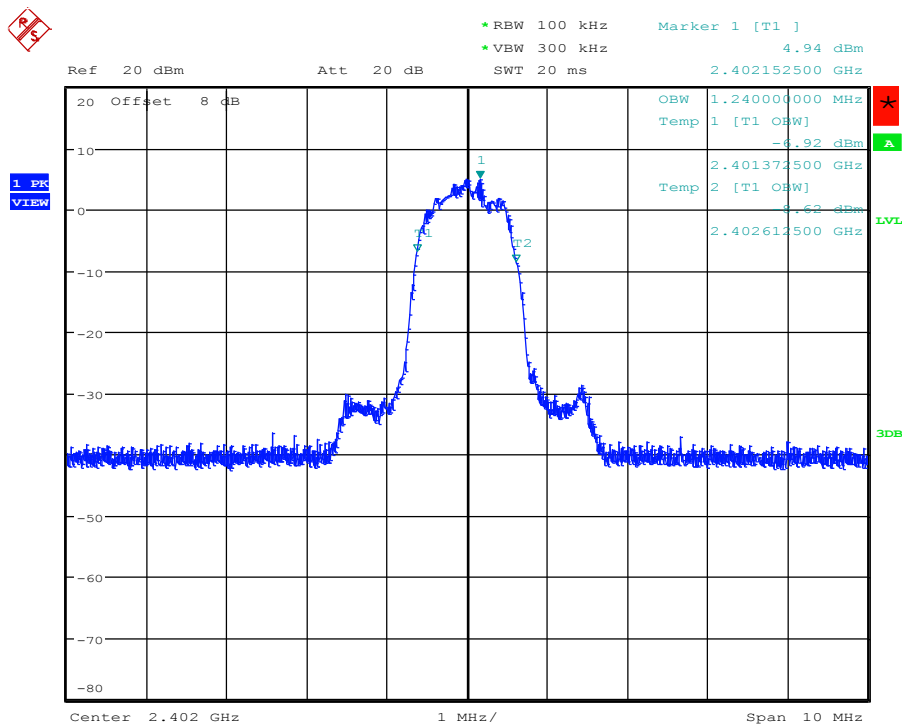
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – 3-DH5-Sngl F_{Low}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 8-DPSK, 2402 MHz, modulated
Test Date: 2015-04-29
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 1240 KHz

Date: 29.APR.2015 11:39:24

Test Report No.: G0M-1503-4620-TFC247BT-V01

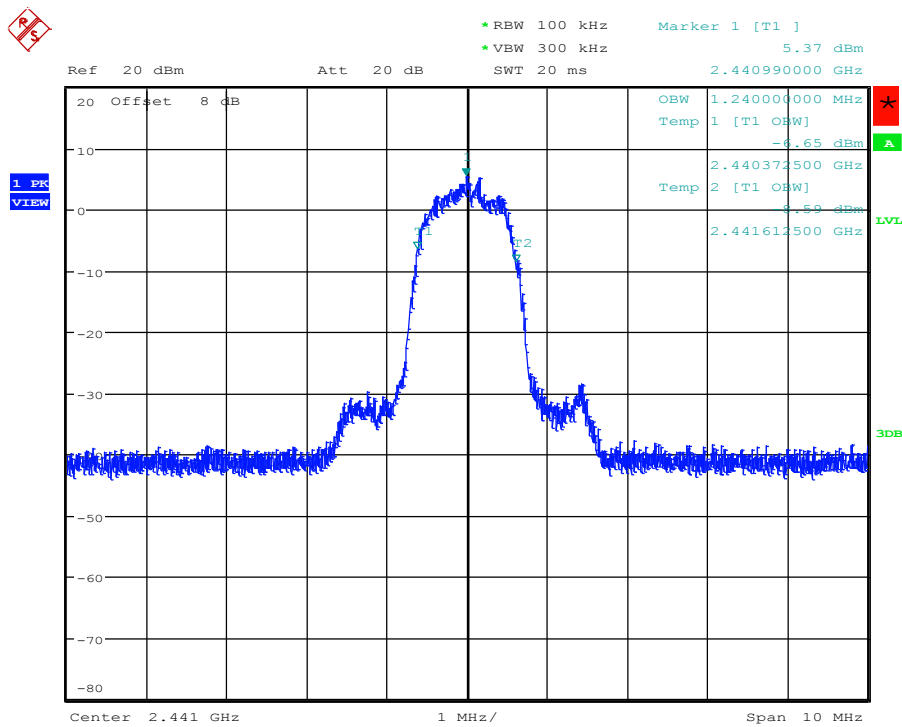
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – 3-DH5-Sngl F_{MID}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 8-DPSK, 2441 MHz, modulated
Test Date: 2015-04-29
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 1240 KHz

Date: 29.APR.2015 11:40:55

Test Report No.: G0M-1503-4620-TFC247BT-V01

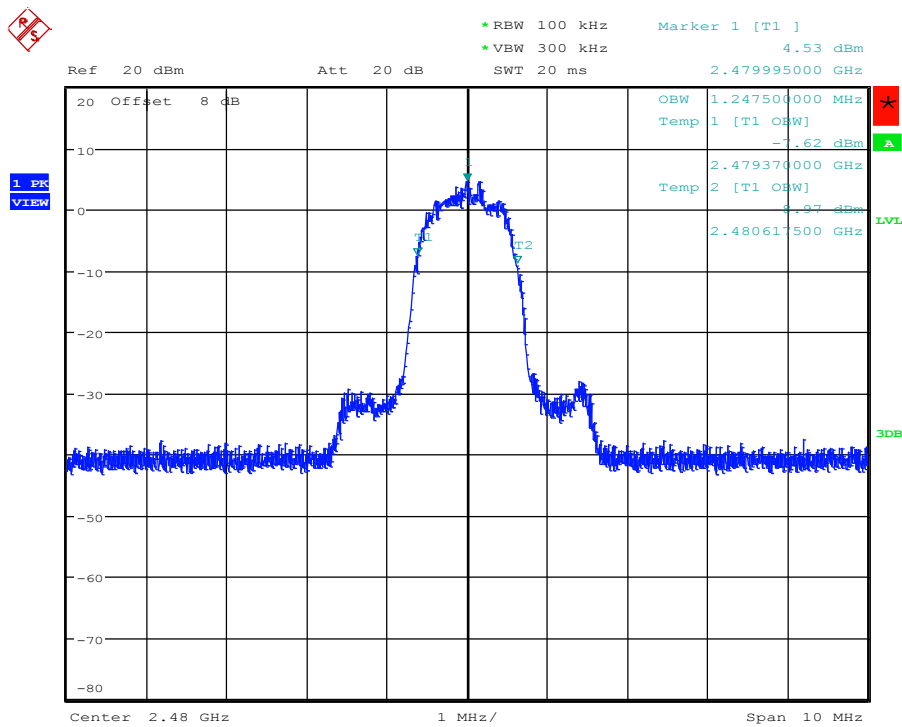
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Occupied Bandwidth – 3-DH5-Sngl F_{HIGH}

Occupied Bandwidth acc. to RSS-Gen

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 8-DPSK, 2480 MHz, modulated
Test Date: 2015-04-29
Verdict: NONE (INFORMATION ONLY)
Note 1: A spectrum analyzer with an integrated 99% power bandwidth function is used
Note 2: conducted measurement



Occupied bandwidth: 1247.5 KHz

Date: 29.APR.2015 11:41:53

Test Report No.: G0M-1503-4620-TFC247BT-V01

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

3.2 Test Conditions and Results – 20 dB Bandwidth

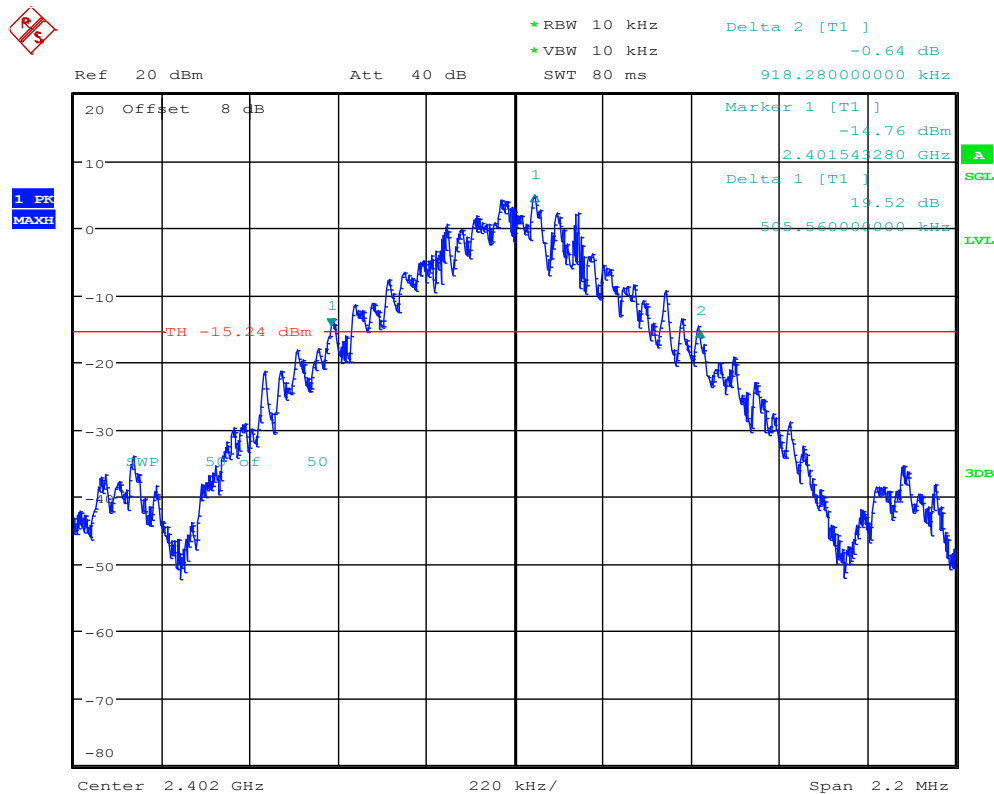
20 dB Bandwidth acc. FCC 15.247 / IC RSS-247				Verdict: PASS	
EUT requirement rule parts and clause	Reference				
	FCC 15.247(a)(1) / IC RSS-247 5.1				
Test according to measurement reference	Reference Method				
	ANSI C63.10				
Test frequency range	Tested frequencies				
	F _{LOW} / F _{MID} / F _{HIGH}				
Limits					
Limit		Condition			
1.5 · Carrier spacing		Output power ≤ 125 mW / 21 dBm			
1.0 · Carrier spacing		125 mW / 21 dBm < Output power ≤ 1 W / 30 dBm			
Test setup					
Spectrum Analyzer EUT					
Test procedure					
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -20 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -20 dB to the right of the peak 7. 20dB Bandwidth is determined by marker frequency separation					
Test results					
Channel	Frequency [MHz]	Mode	20 dB Bandwidth [MHz]	Limit [MHz]	Result
F _{LOW}	2402	DH5-Sngl	0.918	1.5	PASS
F _{MID}	2441	DH5-Sngl	0.917	1.5	PASS
F _{HIGH}	2480	DH5-Sngl	0.918	1.5	PASS
F _{LOW}	2402	2DH5-Sngl	1.313	1.5	PASS
F _{MID}	2441	2DH5-Sngl	1.310	1.5	PASS
F _{HIGH}	2480	2DH5-Sngl	1.312	1.5	PASS
F _{LOW}	2402	3DH5-Sngl	1.287	1.5	PASS
F _{MID}	2441	3DH5-Sngl	1.263	1.5	PASS
F _{HIGH}	2480	3DH5-Sngl	1.279	1.5	PASS
Comments:					

20 dB Bandwidth – DH5-Sngl F_{Low}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, GFSK, 2402 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: FCC part 15 section 247 (a)

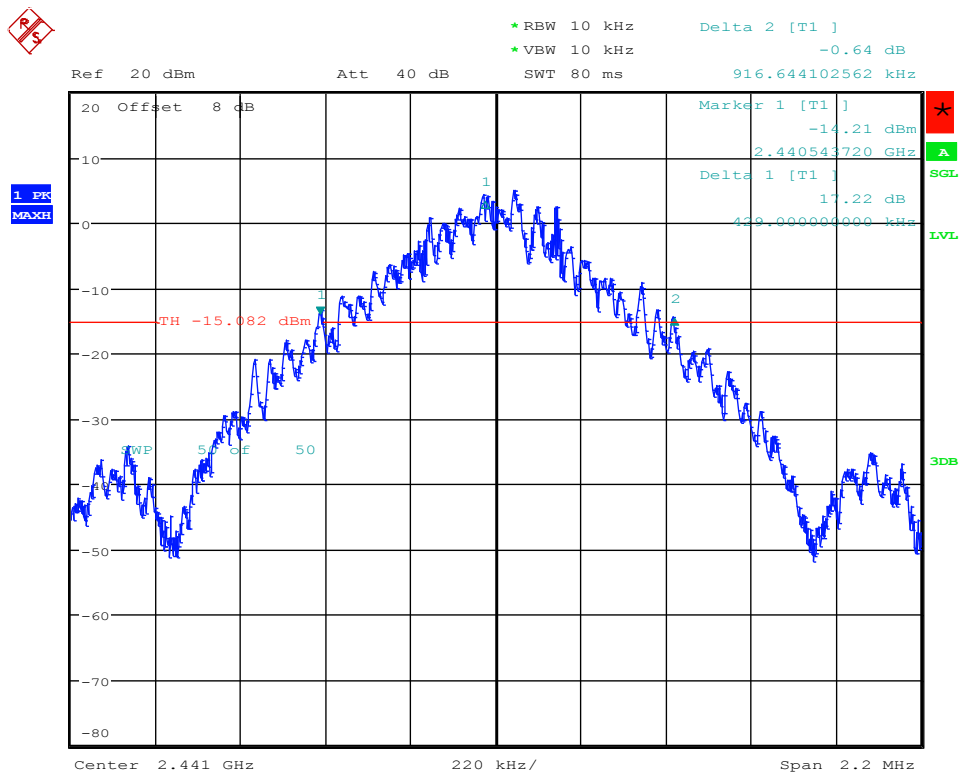


20 dB Bandwidth – DH5-Sngl F_{MID}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, GFSK, 2441 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: FCC part 15 section 247 (a)



Date: 29.APR.2015 11:51:27

Test Report No.: G0M-1503-4620-TFC247BT-V01

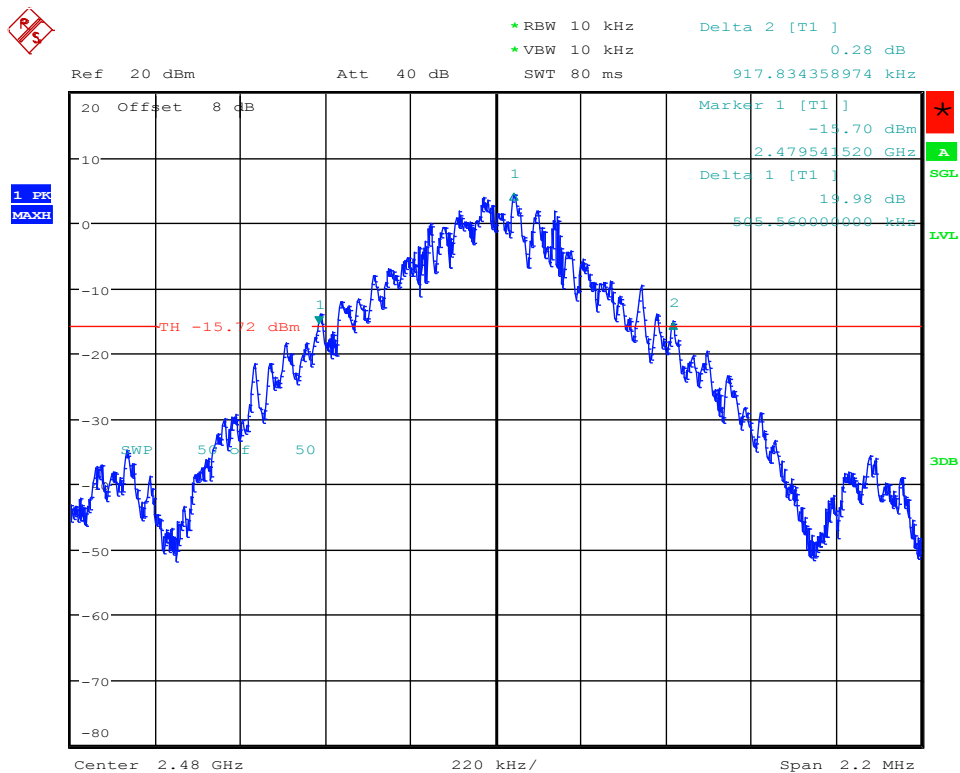
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth – DH5-Sngl F_{HIGH}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, GFSK, 2480 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: FCC part 15 section 247 (a)



Date: 29.APR.2015 11:53:07

Test Report No.: G0M-1503-4620-TFC247BT-V01

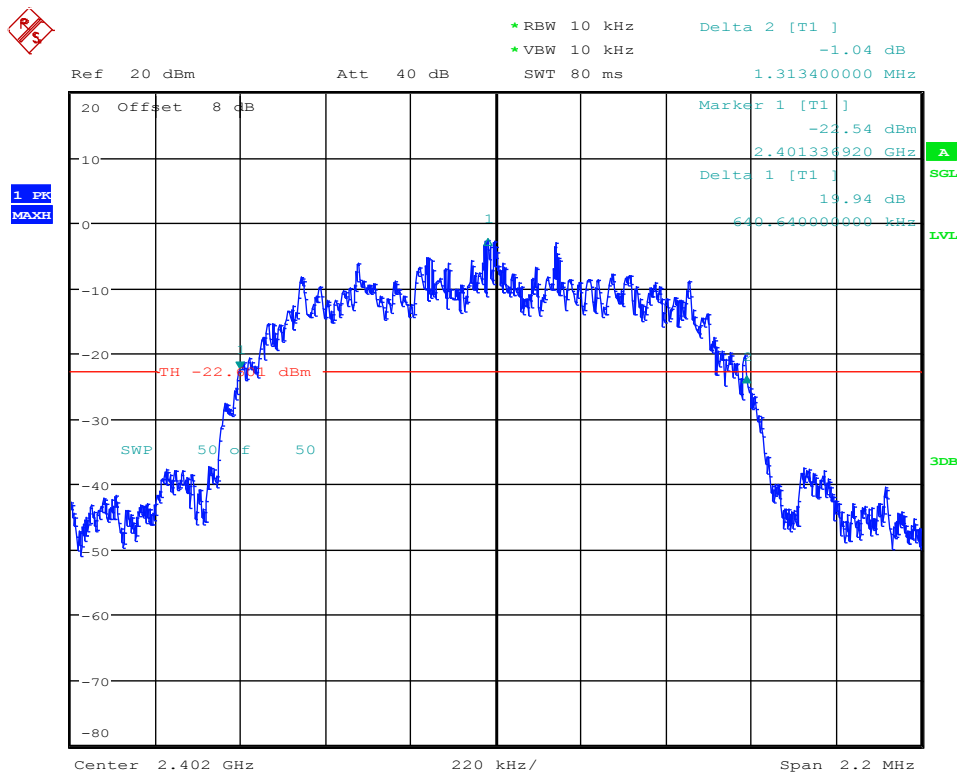
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

20 dB Bandwidth – 2-DH5-Sngl F_{Low}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, PI/4-DQPSK, 2402 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: FCC part 15 section 247 (a)



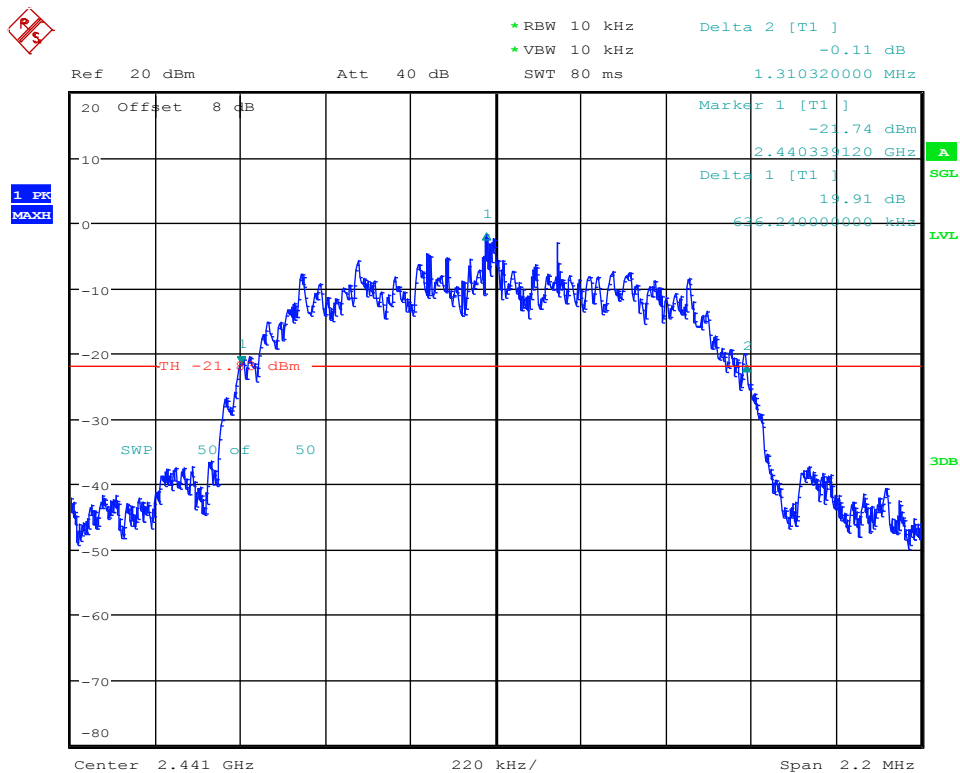
Date: 29.APR.2015 11:55:12

20 dB Bandwidth – 2-DH5-Sngl F_{MID}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, PI/4-DQPSK, 2441 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: FCC part 15 section 247 (a)



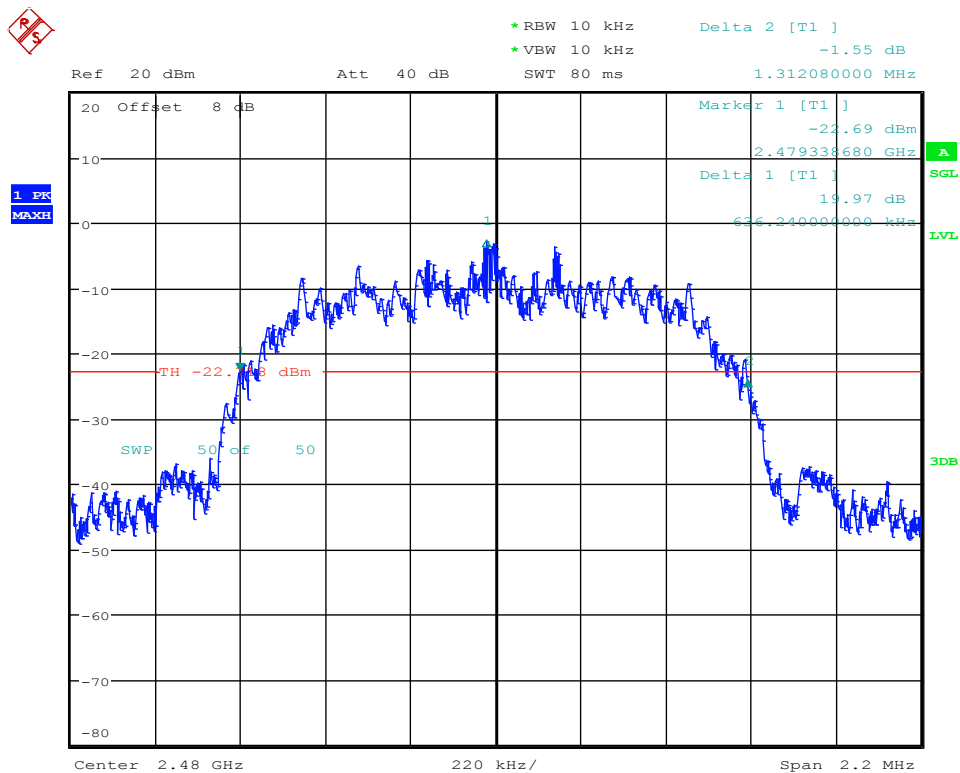
Date: 29.APR.2015 11:56:16

20 dB Bandwidth – 2-DH5-Sngl F_{HIGH}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, PI/4-DQPSK, 2480 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: FCC part 15 section 247 (a)



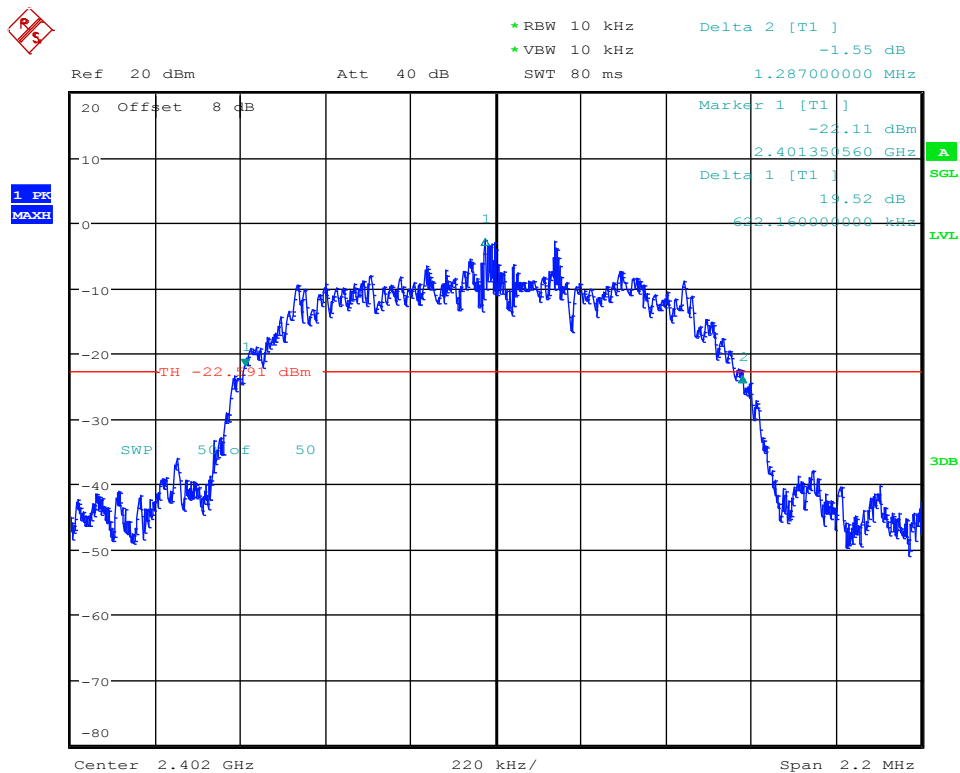
Date: 29.APR.2015 11:57:18

20 dB Bandwidth – 3-DH5-Sngl F_{Low}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, 8-DPSK, 2402 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: FCC part 15 section 247 (a)



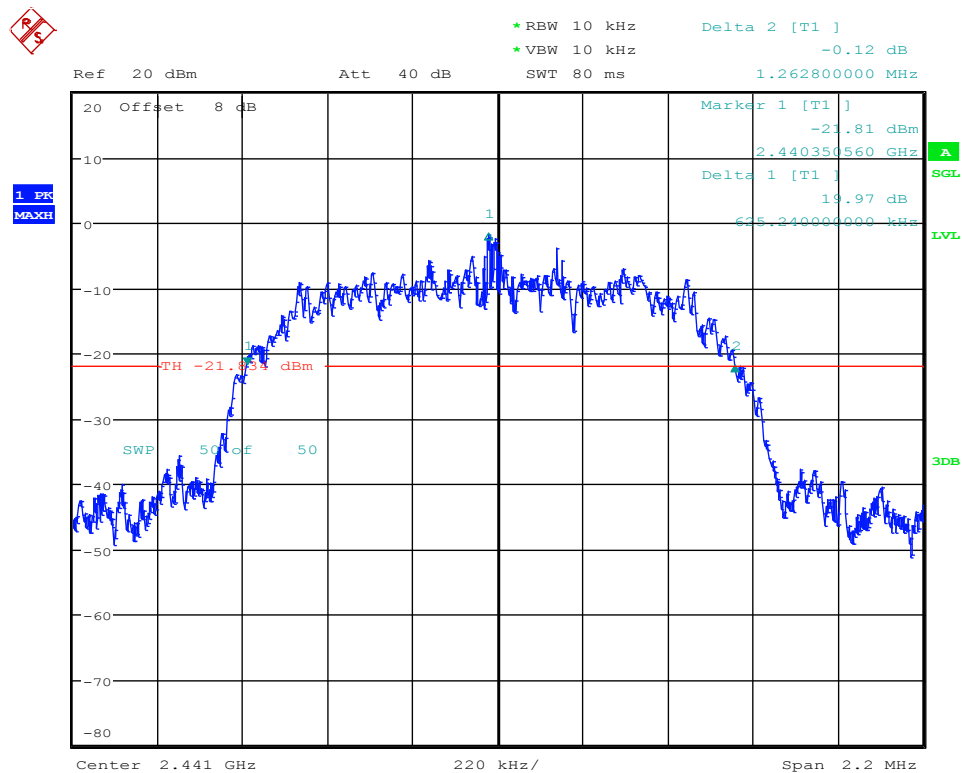
Date: 29.APR.2015 11:58:39

20 dB Bandwidth – 3-DH5-Sngl F_{MID}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant:	Bartec-Pixavi AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	M. Handrik
Test Conditions:	Tnom / Vnom
Mode:	Tx, BT, 8-DPSK, 2441 MHz, modulated
Test Date:	2015-04-29
Verdict:	PASS
Note 1:	FCC part 15 section 247 (a)



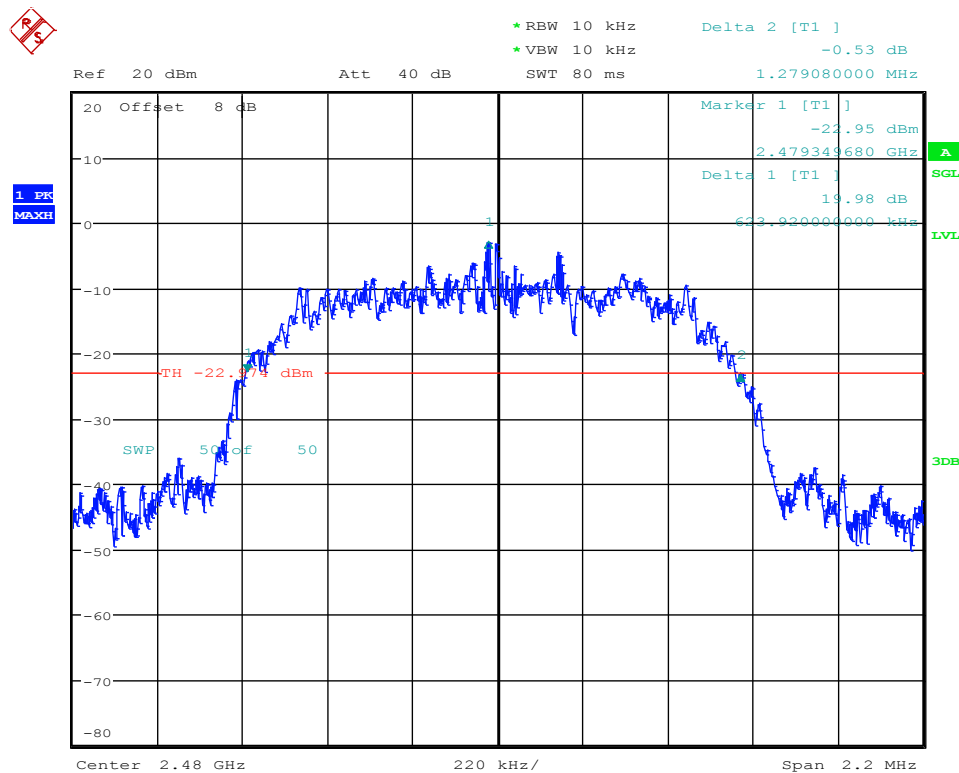
Date: 29.APR.2015 12:00:17

20 dB Bandwidth – 3-DH5-Sngl F_{HIGH}

20 dB Bandwidth acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant:	Bartec-Pixavi AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	M. Handrik
Test Conditions:	Tnom / Vnom
Mode:	Tx, BT, 8-DPSK, 2480 MHz, modulated
Test Date:	2015-04-29
Verdict:	PASS
Note 1:	FCC part 15 section 247 (a)



Date: 29.APR.2015 12:01:23

3.3 Test Conditions and Results – Number of hopping frequencies

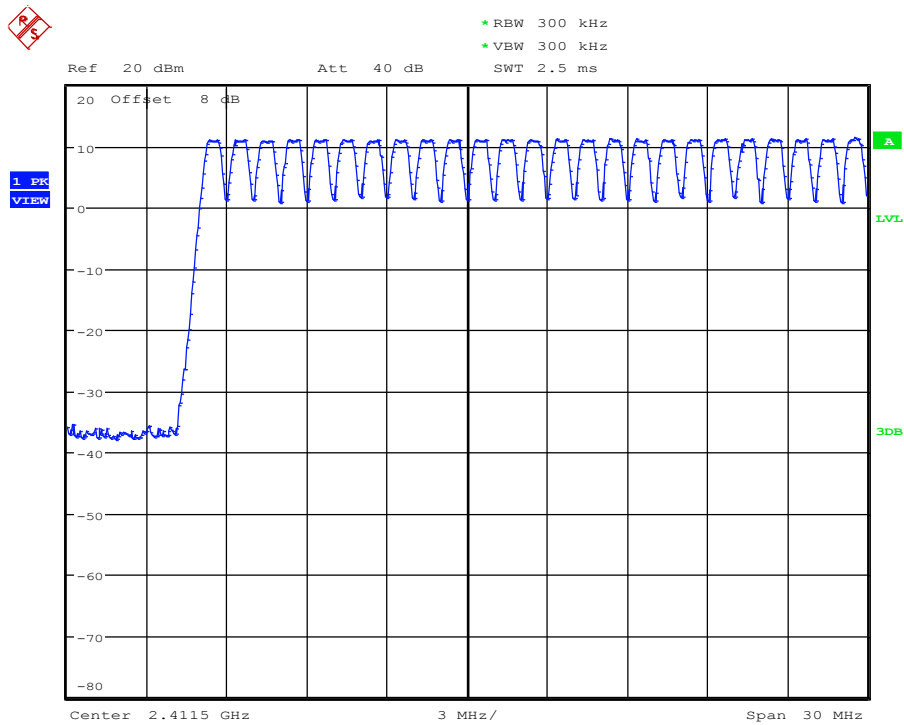
Number of hopping frequencies acc. FCC 15.247 / IC RSS-247		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(a)(1)(iii) / IC RSS-247 5.1	
Test according to measurement reference	Reference Method	
	ANSI C63.10	
Test frequency range	Tested frequencies	
	F _{LOW} - F _{HIGH}	
EUT test mode	DH5-Hop	
Limits		
Limit	Condition	
Number of hopping channels ≥ 15	Output power ≤ 125 mW / 21 dBm	
Number of hopping channels ≥ 75	125 mW / 21 dBm < Output power ≤ 1 W / 30 dBm	
Test setup		
Spectrum Analyzer EUT		
Test procedure		
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The number of peaks is counted to determine number of hopping frequencies		
Test results		
Number of hopping frequencies	Limit	Result
79	≥ 15	PASS
Comments:		

Number of hopping frequencies - Range A

Number of Hopping Frequencies acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, GFSK, hopping mode
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Number of Hopping Frequencies
 Note 2: conducted measurement, channel 0-24



Number of hopping frequencies

Date: 29.APR.2015 13:06:23

Test Report No.: G0M-1503-4620-TFC247BT-V01

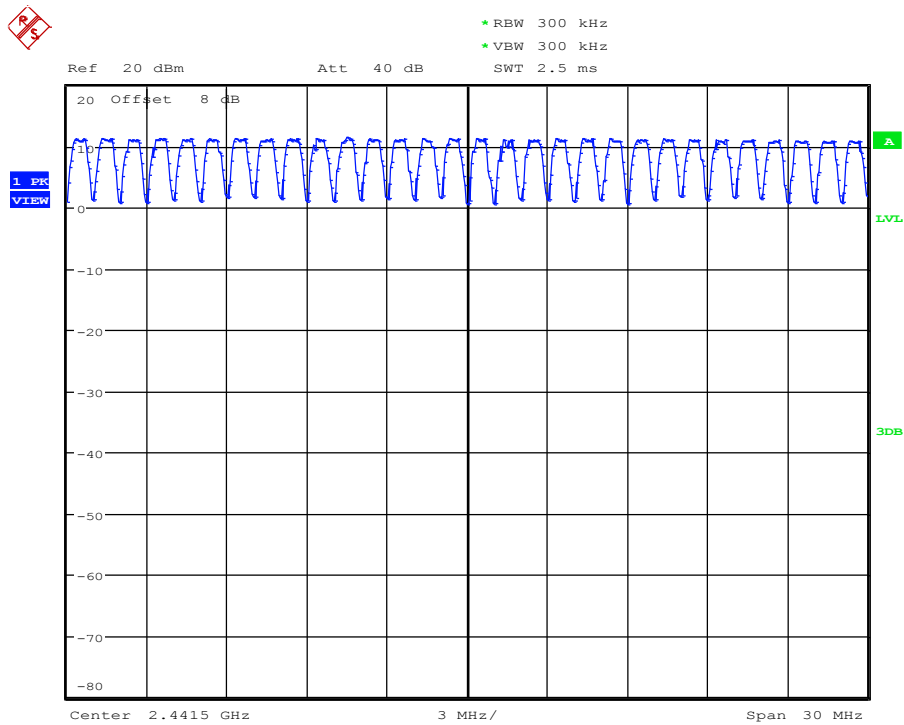
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Number of hopping frequencies - Range B

Number of Hopping Frequencies acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, GFSK, hopping mode
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Number of Hopping Frequencies
 Note 2: conducted measurement, channel 25-53



Number of hopping frequencies

Date: 29.APR.2015 13:07:27

Test Report No.: G0M-1503-4620-TFC247BT-V01

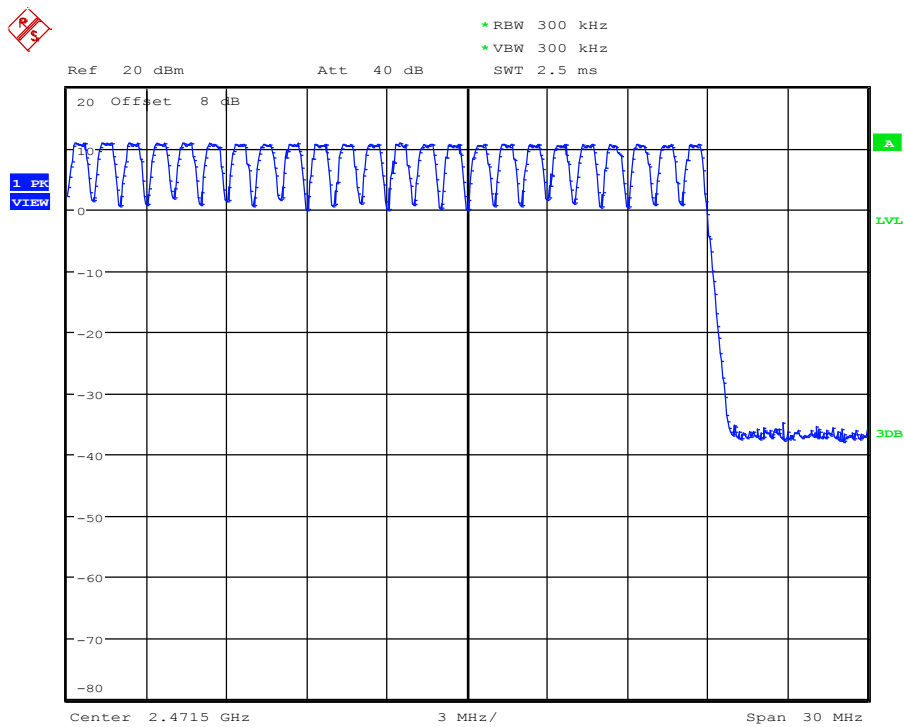
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Number of hopping frequencies - Range C

Number of Hopping Frequencies acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, GFSK, hopping mode
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Number of Hopping Frequencies
 Note 2: conducted measurement, channel 55-78



Number of hopping frequencies

Date: 29.APR.2015 13:08:24

Test Report No.: G0M-1503-4620-TFC247BT-V01

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

3.4 Test Conditions and Results – Frequency hopping channel separation

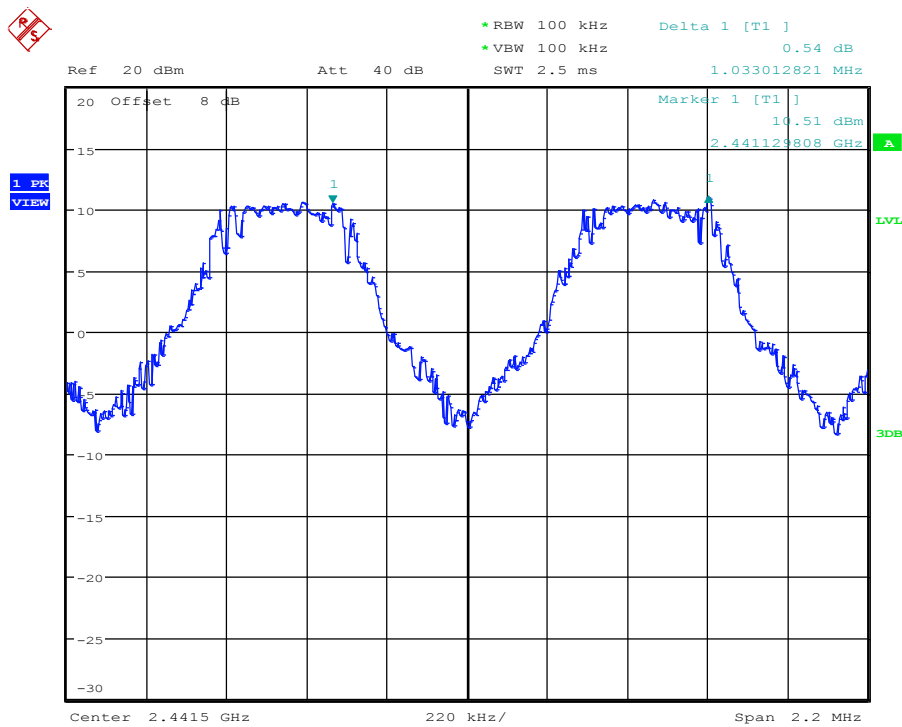
Frequency hopping channel separation acc. FCC 15.247 / IC RSS-247		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(a)(1) / IC RSS-247 5.1	
Test according to measurement reference	Reference Method	
	ANSI C63.10	
Test frequency range	Tested frequencies	
	2441 & 2442 MHz	
EUT test mode	DH5-Hop	
Limits		
Limit	Condition	
≥ 25 kHz or ⅔ of 20 dB bandwidth	Output power ≤ 125 mW / 21 dBm	
≥ 25 kHz or 20 dB bandwidth	125 mW / 21 dBm < Output power ≤ 1 W / 30 dBm	
Test setup		
Spectrum Analyzer EUT		
Test procedure		
1. EUT set to test mode (Communication tester is used if needed) 2. Span set to measurement frequency range 3. Detector set to peak and max hold 4. Resolution bandwidth is set small enough to resolve hopping channel emission spectra 5. The two adjacent channel peaks are marked 6. Channel separation is determined from frequency separation of markers		
Test results		
Channel separation [kHz]	Limit [kHz]	Result
1033	≥ ⅔ · 916.644 = 611.1	PASS
Comments:		

Frequency hopping channel separation

Carrier Frequency Separation acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, GFSK, hopping mode
Test Date: 2015-04-29
Verdict: PASS
Note 1: Carrier Frequency Separation
Note 2: conducted measurement



Limit: > two-thirds of the 20 dB bandwidth ; Result: Pass

Date: 29.APR.2015 13:15:46

Test Report No.: G0M-1503-4620-TFC247BT-V01

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

3.5 Test Conditions and Results – Time of occupancy (Dwell Time)

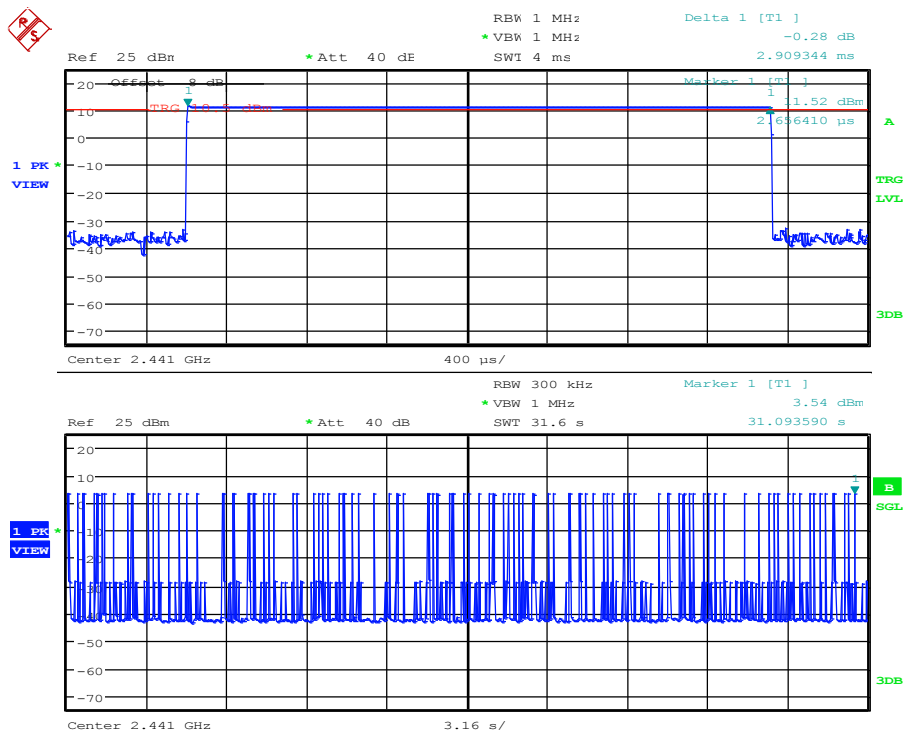
Time of occupancy (Dwell time) acc. FCC 15.247 / IC RSS-247				Verdict: PASS	
EUT requirement rule parts and clause		Reference			
		FCC 15.247(a)(1)(iii) / IC RSS-247 5.1			
Test according to measurement reference		Reference Method			
		ANSI C63.10			
Test frequency range		Tested frequencies			
		2441 MHz			
EUT test mode		DH5-Hop			
Limits					
Limit					
Time of occupancy ≤ 0.4 s within 0.4 s · Number of hopping channels					
Test setup					
Spectrum Analyzer EUT					
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 zero span and detector to peak and max hold 4. Resolution bandwidth is set to 100kHz and sweep time to observation period 5. Time of occupancy determined from number of peaks multiplied by single hop dwell time					
Test results					
Observation period [s]	No. of hops	Dwell time/hop [s]	Time of occupancy [s]	Limit [s]	Result
31.6	91	0.0029	0.2647	≤ 0.4	PASS
Comments:					

Time of occupancy

Time of Occupancy acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, GFSK, channel 2442MHz, hopping mode
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: 91 events * 2.909ms; Result: 264.719ms Limit<0.4s
 Note 2: conducted measurement



Burst length=2.90934 ms

Date: 29.APR.2015 13:21:26

3.6 Test Conditions and Results – Maximum peak conducted power

Maximum peak conducted power acc. FCC 15.247 / IC RSS-247		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(b)(1) / IC RSS-247 5.4	
Test according to measurement reference	Reference Method	
	ANSI C63.10	
Test frequency range	Tested frequencies	
	F _{LOW} / F _{MID} / F _{HIGH}	
Measurement mode	Peak	
Maximum antenna gain	0 dBi ⇒ Limit correction = 0 dB	
Limits		
Limit	Condition	
1 W (30 dBm)	Number of hopping channels ≥ 75	
0.125 W (21 dBm)	75 > Number of hopping channels ≥ 15	
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.		
Test setup		
Spectrum Analyzer EUT		
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]	Result
F _{LOW}	2402	3.7 VDC	DH5-Sngl	11.39	0.014	30	-18.61	PASS
F _{MID}	2441	3.7 VDC	DH5-Sngl	11.56	0.014	30	-18.44	PASS
F _{HIGH}	2480	3.7 VDC	DH5-Sngl	10.75	0.012	30	-19.25	PASS
F _{LOW}	2402	3.7 VDC	2DH5-Sngl	7.31	0.005	30	-22.69	PASS
F _{MID}	2441	3.7 VDC	2DH5-Sngl	7.59	0.006	30	-22.41	PASS
F _{HIGH}	2480	3.7 VDC	2DH5-Sngl	6.88	0.005	30	-23.12	PASS
F _{LOW}	2402	3.7 VDC	3DH5-Sngl	7.88	0.006	30	-22.12	PASS
F _{MID}	2441	3.7 VDC	3DH5-Sngl	8.19	0.007	30	-21.81	PASS
F _{HIGH}	2480	3.7 VDC	3DH5-Sngl	7.49	0.006	30	-22.51	PASS
Comments:								

3.7 Test Conditions and Results – AC power line conducted emissions

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

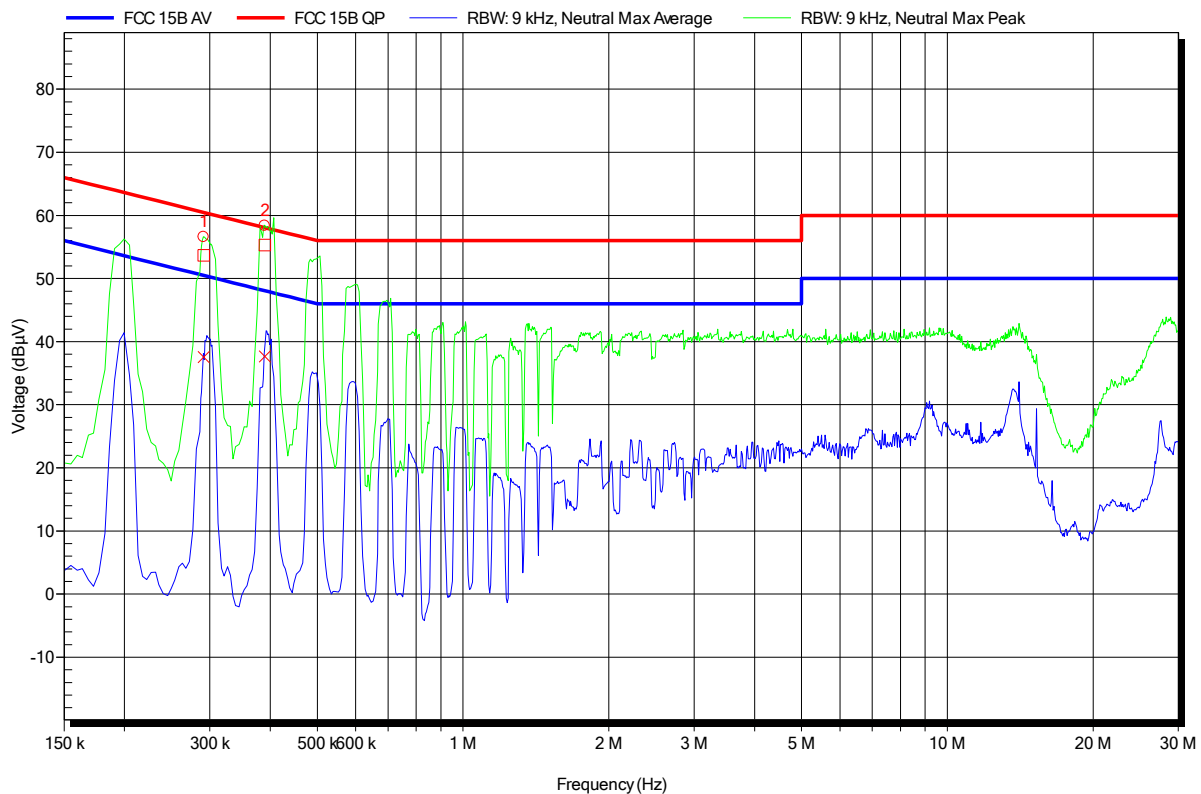
Conducted Emissions

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

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
 LISN: ESH2-Z5 N
 Mode: charging, Bluetooth DUT-mode, HDMI connected to Monitor
 Test Date: 2015-05-05
 Note:

Index 1



Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
291.3 kHz	53.68 dBμV	60.49 dBμV	-6.81 dB	Pass
389.4 kHz	55.3 dBμV	58.08 dBμV	-2.78 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
291.3 kHz	37.56 dBμV	50.49 dBμV	-12.93 dB	Pass
389.4 kHz	37.64 dBμV	48.08 dBμV	-10.44 dB	Pass

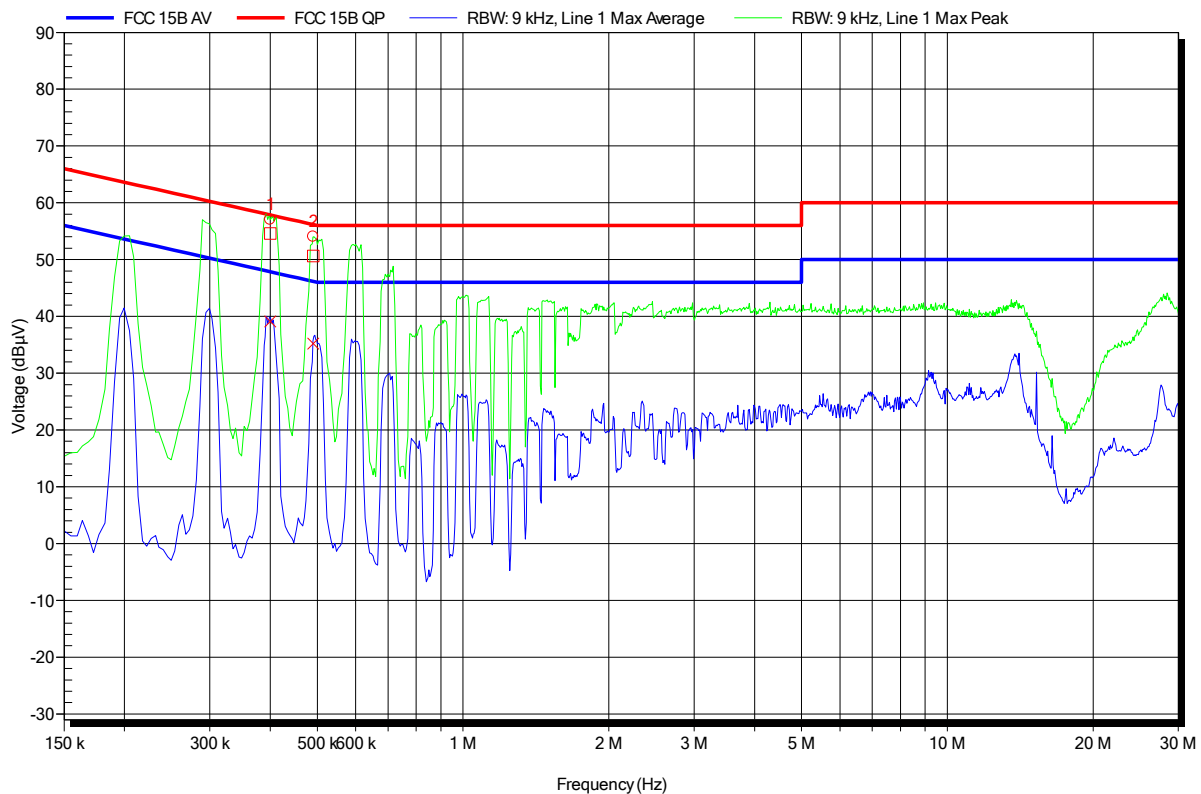
Conducted Emissions

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

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Conditions: Tnom: 22°C, Unom: 120 V AC (AC/DC adaptor)
LISN: ESH2-Z5 L
Mode: charging, Bluetooth DUT-mode, HDMI connected to Monitor
Test Date: 2015-05-05
Note:

Index 2



Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
399.75 kHz	54.58 dBμV	57.86 dBμV	-3.28 dB	Pass
490.65 kHz	50.62 dBμV	56.16 dBμV	-5.54 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
399.75 kHz	39.09 dBμV	47.86 dBμV	-8.77 dB	Pass
490.65 kHz	35.21 dBμV	46.16 dBμV	-10.95 dB	Pass

3.8 Test Conditions and Results – Band edge compliance

Band-edge compliance acc. FCC 15.247 / IC RSS-247					Verdict: PASS	
EUT requirement rule parts and clause		Reference				
		FCC 15.247(d) / IC RSS-247 5.5				
Test according to measurement reference		Reference Method				
		ANSI C63.10				
Test frequency range		Tested frequencies				
		F _{LOW} / F _{HIGH}				
Measurement mode		Peak				
Limits						
Limit			Condition			
≤ -20 dB/100 kHz			Peak power measurement detector = Peak			
≤ -30 dB/100 kHz			Peak power measurement detector = RMS			
Test setup						
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 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]	Result
F _{LOW}	2402	DH5-Sngl	-50.72	-20	-30.72	PASS
F _{HIGH}	2480	DH5-Sngl	-48.97	-20	-28.97	PASS
F _{LOW}	2402	DH5-Hop	-49.16	-20	-29.16	PASS
F _{HIGH}	2480	DH5-Hop	-48.21	-20	-28.21	PASS
F _{LOW}	2402	2DH5-Sngl	-44.09	-20	-24.09	PASS
F _{HIGH}	2480	2DH5-Sngl	-41.13	-20	-21.13	PASS
F _{LOW}	2402	2DH5-Hop	-41.59	-20	-21.59	PASS
F _{HIGH}	2480	2DH5-Hop	-43.05	-20	-23.05	PASS

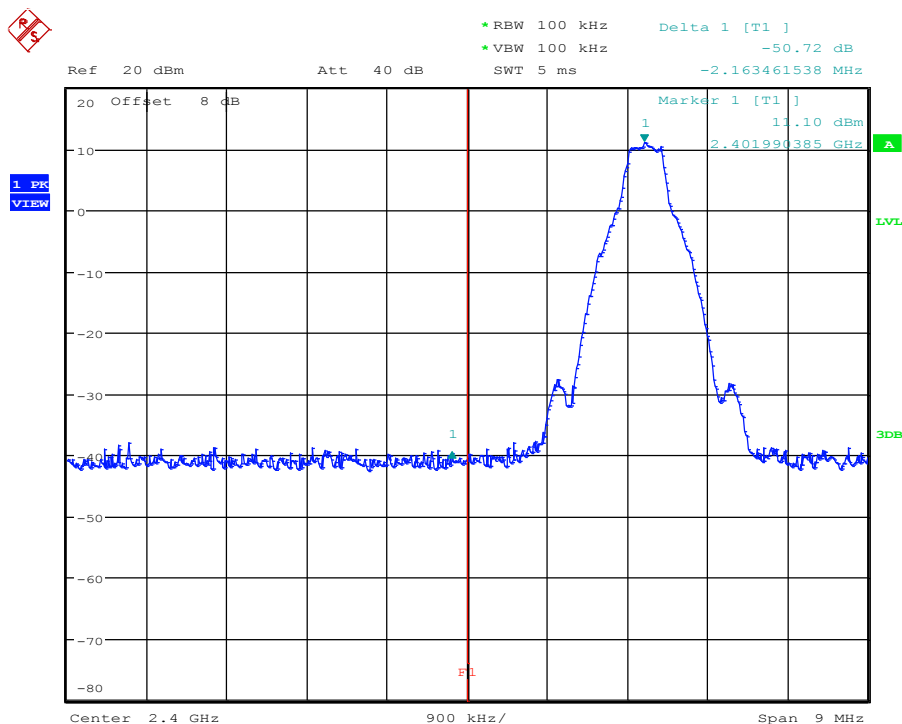
F _{LOW}	2402	3DH5-Sngl	-43.16	-20	-23.16	PASS
F _{HIGH}	2480	3DH5-Sngl	-44.65	-20	-24.65	PASS
F _{LOW}	2402	3DH5-Hop	-43.74	-20	-23.74	PASS
F _{HIGH}	2480	3DH5-Hop	-42.42	-20	-22.42	PASS
Comments:						

Band-edge compliance – DH5-Sngl F_{LOW}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, GFSK, 2402 MHz, single frequency
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 13:33:01

Test Report No.: G0M-1503-4620-TFC247BT-V01

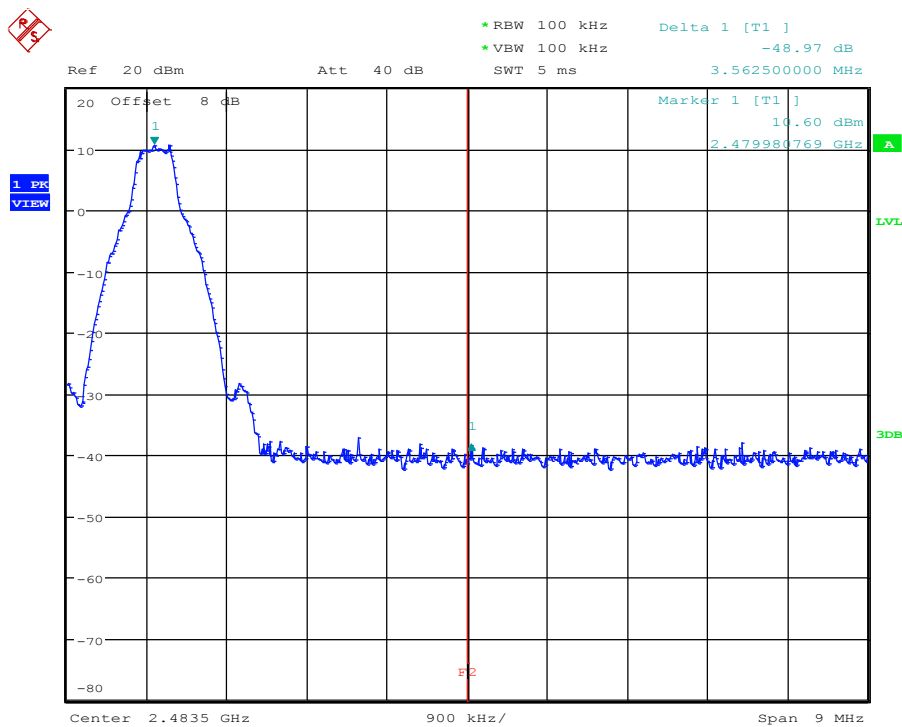
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – DH5-Sngl F_{HIGH}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, GFSK, 2480 MHz, single frequency
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: higher Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 13:45:05

Test Report No.: G0M-1503-4620-TFC247BT-V01

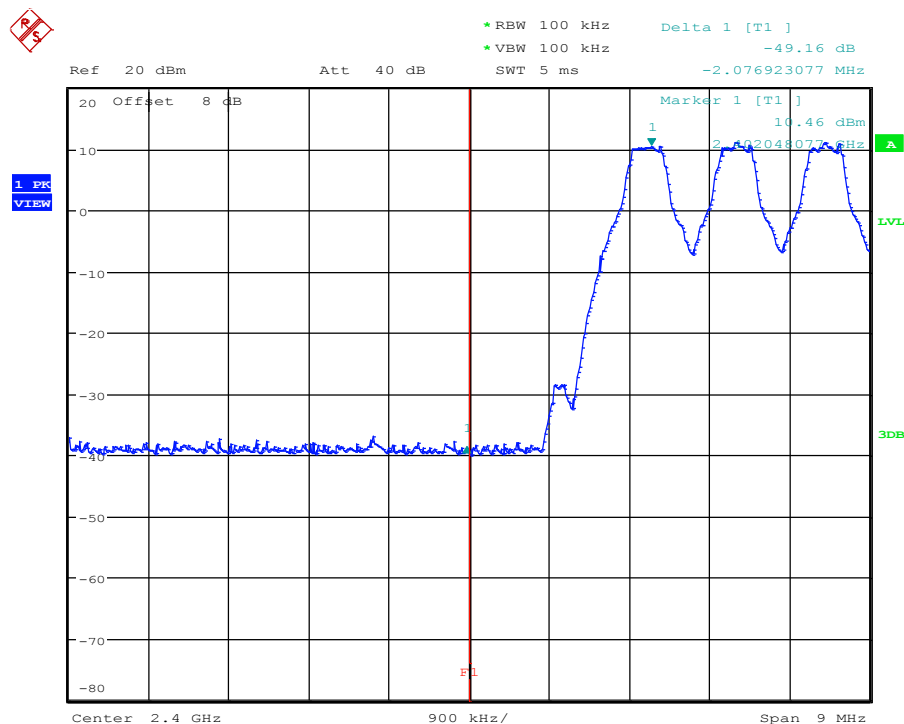
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – DH5-Hop F_{LOW}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, GFSK, hopping mode
Test Date: 2015-04-29
Verdict: PASS
Note 1: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 13:54:05

Test Report No.: G0M-1503-4620-TFC247BT-V01

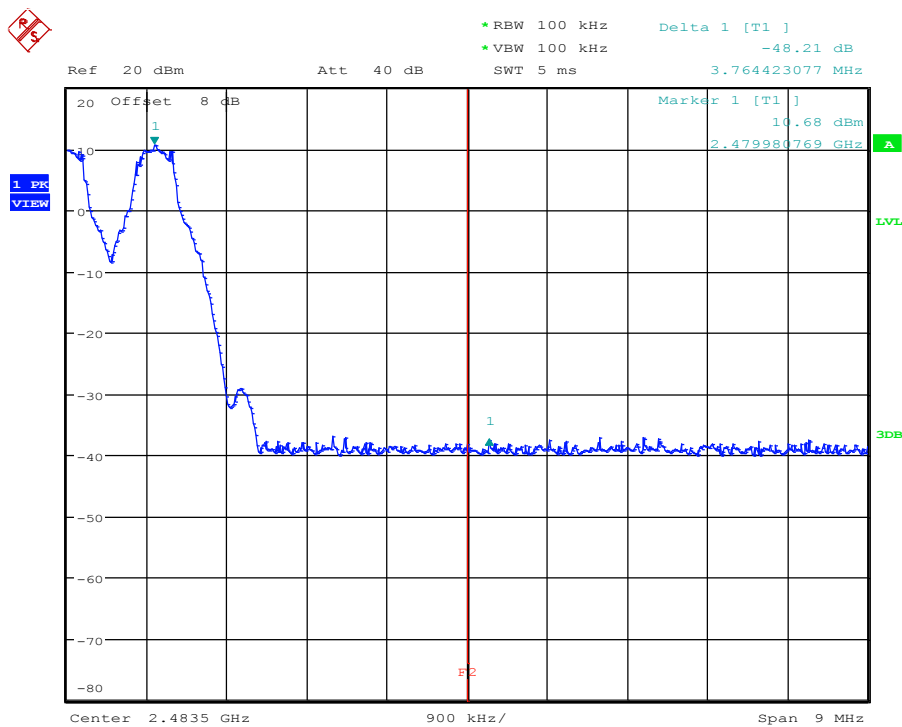
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – DH5-Hop F_{HIGH}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, GFSK, hopping mode
Test Date: 2015-04-29
Verdict: PASS
Note 1: higher Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 13:58:15

Test Report No.: G0M-1503-4620-TFC247BT-V01

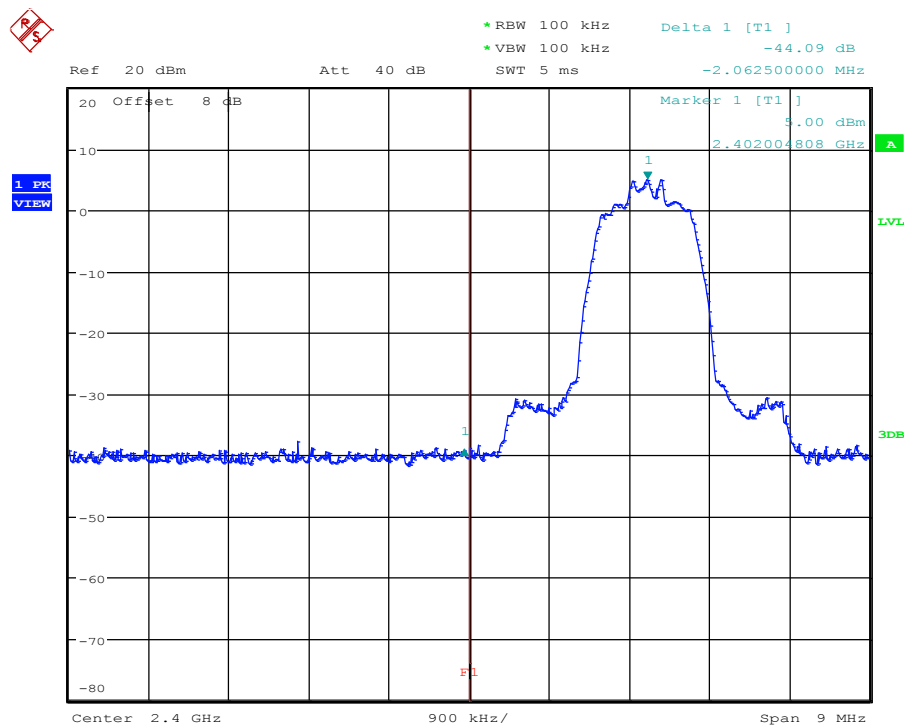
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 2-DH5-Sngl F_{LOW}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, PI/4-DQPSK, 2402 MHz, single frequency
Test Date: 2015-04-29
Verdict: PASS
Note 1: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 13:35:01

Test Report No.: G0M-1503-4620-TFC247BT-V01

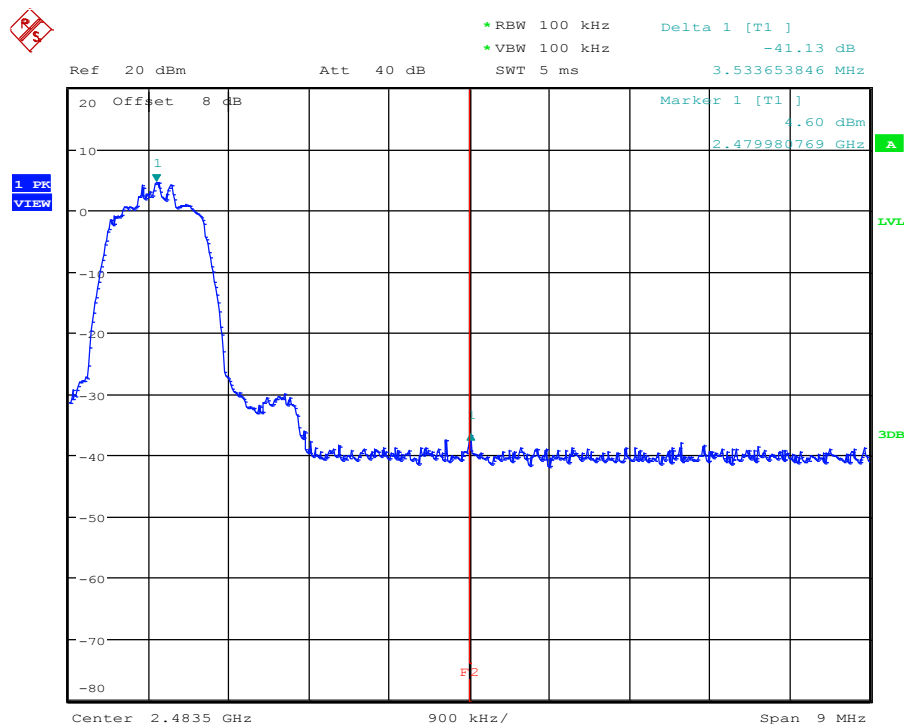
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 2-DH5-Sngl F_{HIGH}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant:	Bartec-Pixavi AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	M. Handrik
Test Conditions:	Tnom / Vnom
Mode:	Tx, PI/4-DQPSK, 2480 MHz, single frequency
Test Date:	2015-04-29
Verdict:	PASS
Note 1:	higher Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

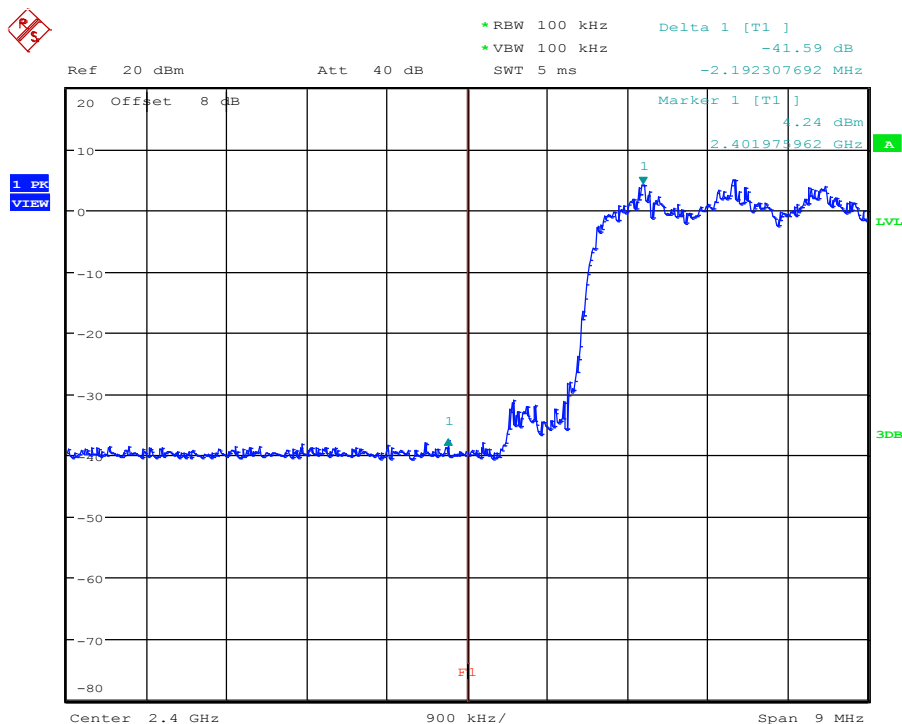
Date: 29.APR.2015 13:43:41

Band-edge compliance – 2-DH5-Hop F_{LOW}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, PI/4-DQPSK, hopping mode
Test Date: 2015-04-29
Verdict: PASS
Note 1: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 14:04:15

Test Report No.: G0M-1503-4620-TFC247BT-V01

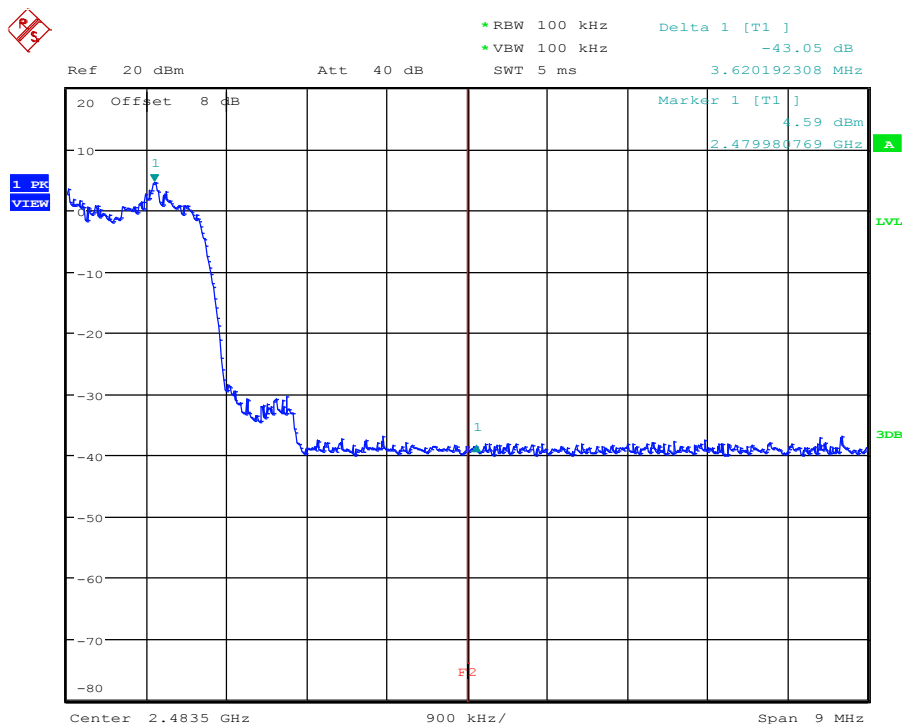
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 2-DH5-Hop F_{HIGH}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, PI/4-DQPSK, hopping mode
Test Date: 2015-04-29
Verdict: PASS
Note 1: higher Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 14:08:35

Test Report No.: G0M-1503-4620-TFC247BT-V01

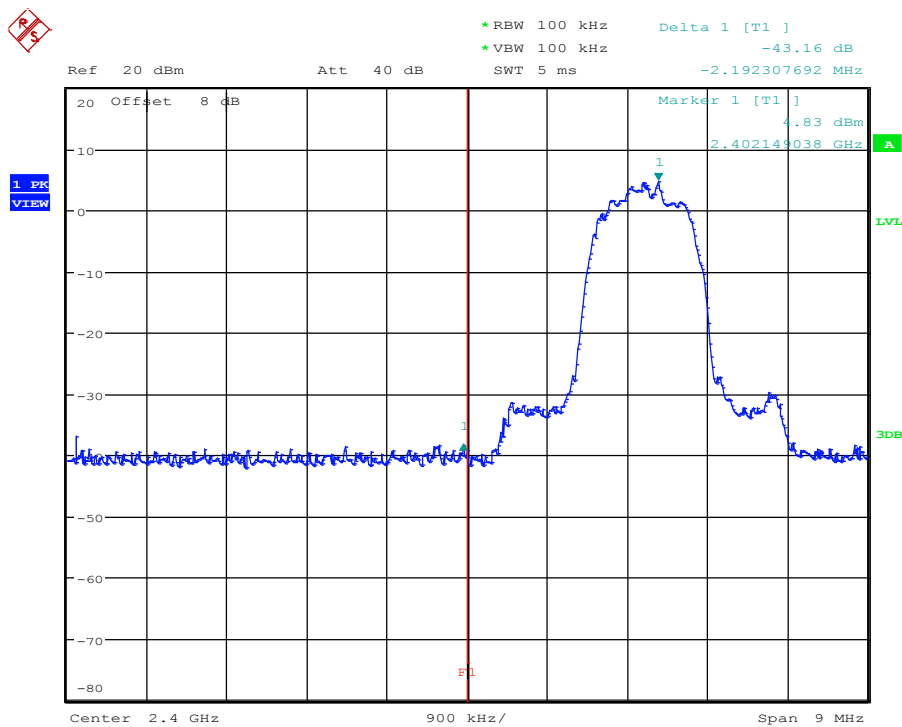
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 3-DH5-Sngl F_{LOW}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 8-DPSK, 2402 MHz, single frequency
Test Date: 2015-04-29
Verdict: PASS
Note 1: lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 13:36:03

Test Report No.: G0M-1503-4620-TFC247BT-V01

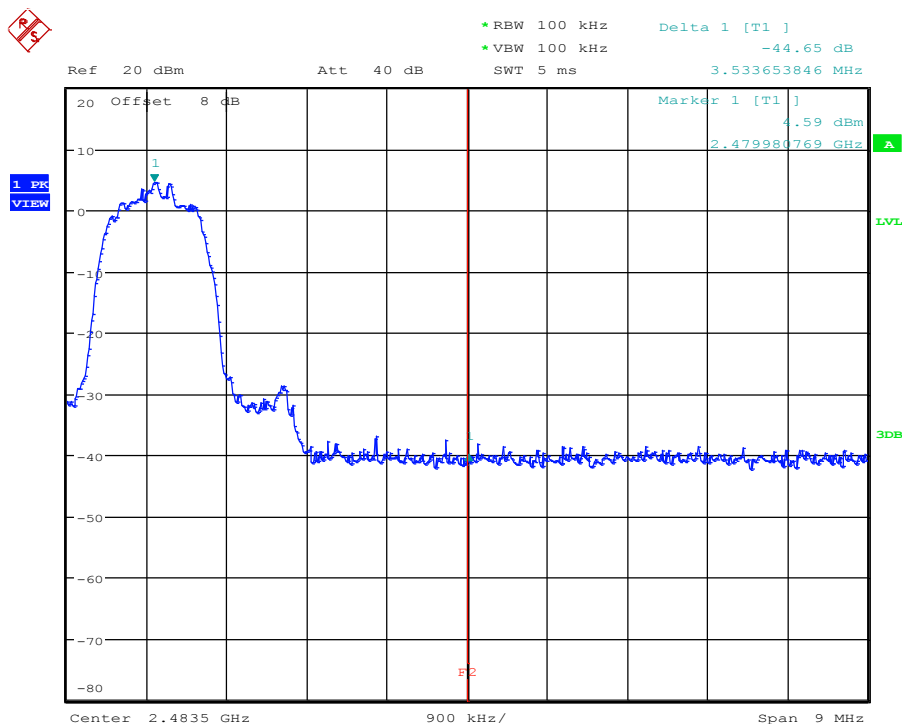
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Band-edge compliance – 3-DH5-Sngl F_{HIGH}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 8-DPSK, 2480 MHz, single frequency
Test Date: 2015-04-29
Verdict: PASS
Note 1: higher Band-edge, conducted measurement

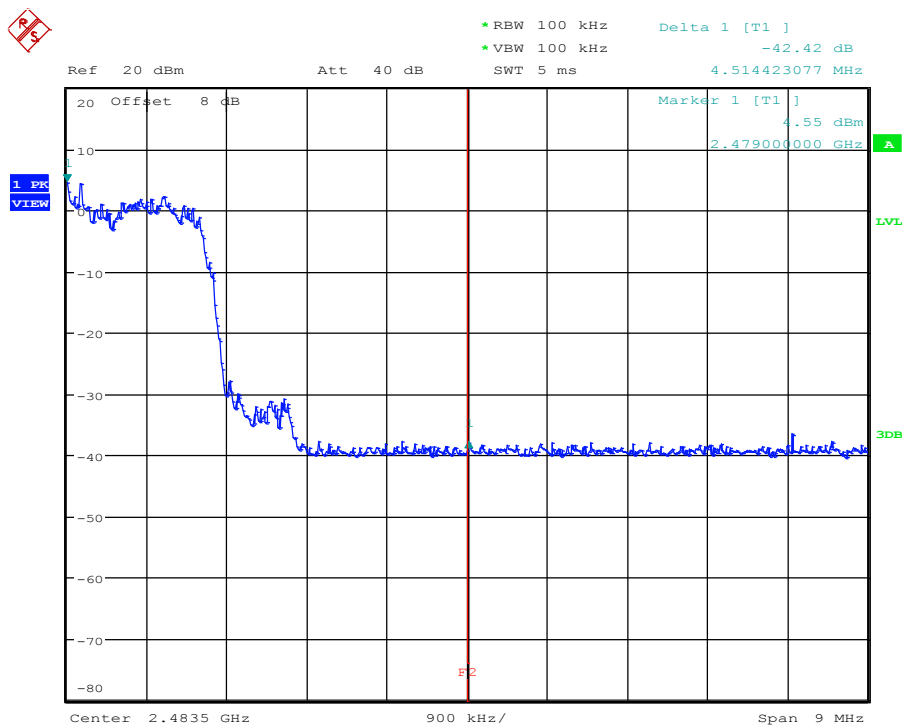


Band-edge compliance – 3-DH5-Hop F_{LOW}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: M. Handrik
Test Conditions: Tnom / Vnom
Mode: Tx, 8-DPSK, hopping mode
Test Date: 2015-04-29
Verdict: PASS
Note 1: higher Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

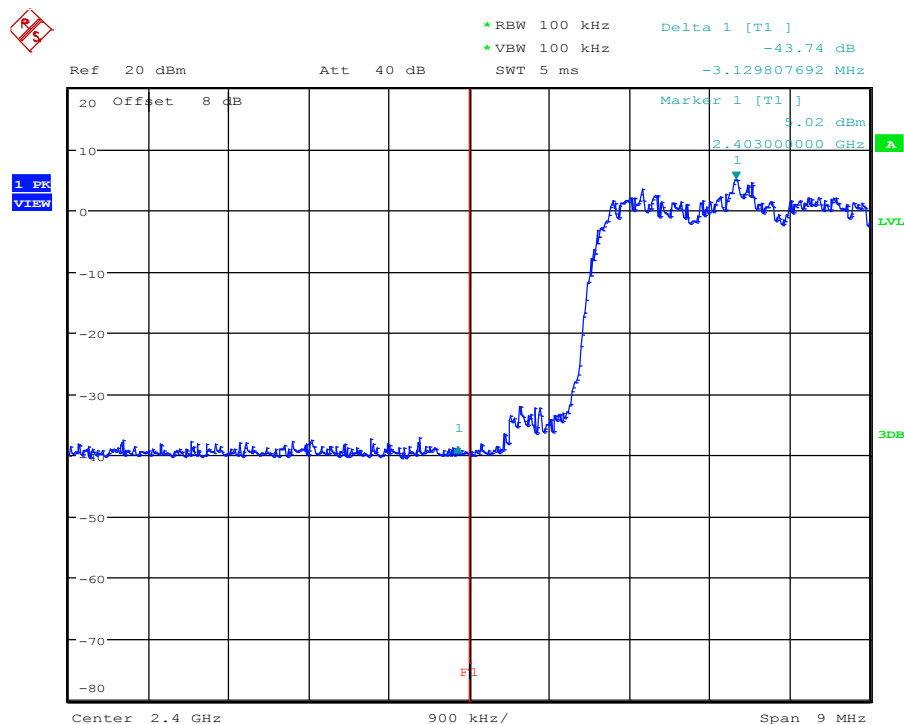
Date: 29.APR.2015 14:11:48

Band-edge compliance – 3-DH5-Hop F_{HIGH}

Band-edge compliance acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant:	Bartec-Pixavi AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	M. Handrik
Test Conditions:	Tnom / Vnom
Mode:	Tx, 8-DPSK, hopping mode
Test Date:	2015-04-29
Verdict:	PASS
Note 1:	lower Band-edge, conducted measurement



Limit: Marker Delta value >20 dB

Date: 29.APR.2015 14:15:42

3.9 Test Conditions and Results – Conducted spurious emissions

Conducted spurious emissions acc. FCC 15.247 / IC RSS-247		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(d) / IC RSS-247 5.5	
Test according to measurement reference	Reference Method	
	ANSI C63.10	
Test frequency range	Tested frequencies	
	10 MHz – 10 th Harmonic	
Measurement mode	Peak	
Limits		
Limit	Condition	
≤ -20 dB/100 kHz	Peak power measurement detector = Peak	
≤ -30 dB/100 kHz	Peak power measurement detector = RMS	
Test setup		
Spectrum Analyzer EUT		
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		

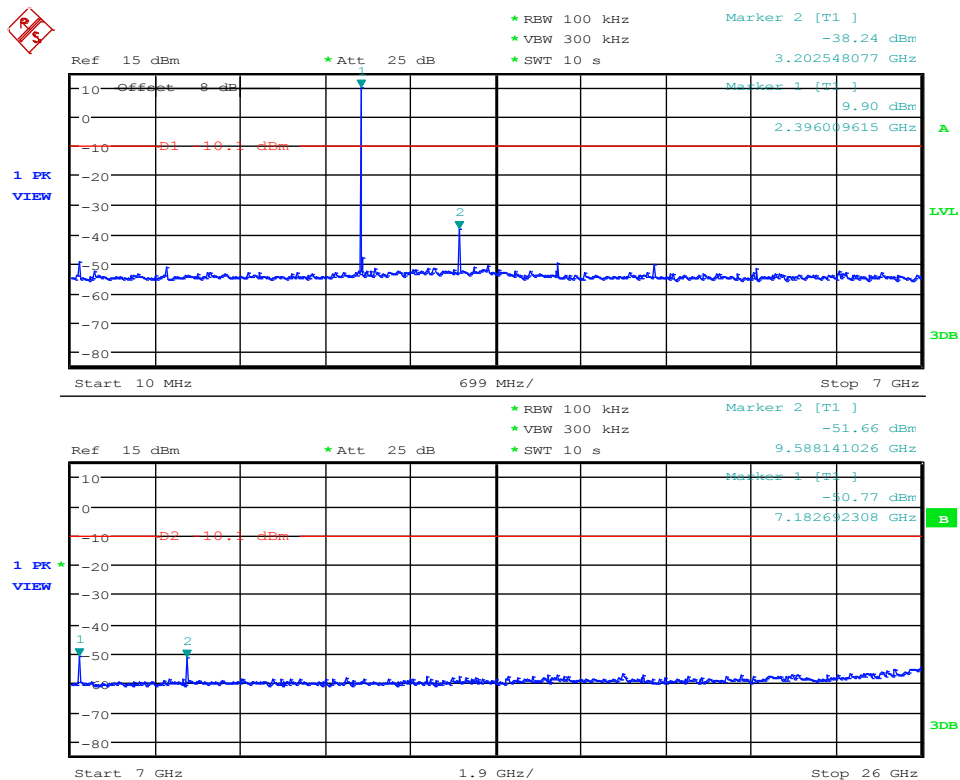
Test results								
Channel	Frequency [MHz]	Mode	Emission [MHz]	Emission Level [dBm]	Peak power [dBm]	Limit [dBm]	Margin [dB]	Result
F _{LOW}	2402	DH5-Sngl	3202.5	-38.24	9.90	-10.1	-28.14	PASS
F _{LOW}	2402	DH5-Sngl	7182.7	-50.77	9.90	-10.1	-40.67	PASS
F _{MID}	2441	DH5-Sngl	3258.6	-38.92	11.28	-8.7	-30.22	PASS
F _{MID}	2441	DH5-Sngl	4882.8	-45.92	11.28	-8.7	-37.22	PASS
F _{HIGH}	2480	DH5-Sngl	3303.4	-42.75	10.07	-9.9	-32.85	PASS
F _{HIGH}	2480	DH5-Sngl	4961.3	-47.56	10.07	-9.9	-37.66	PASS
F _{LOW}	2402	2DH5-Sngl	3202.5	-47.29	2.11	-17.9	-29.39	PASS
F _{MID}	2441	2DH5-Sngl	3258.6	-45.19	1.93	-18.1	-27.09	PASS
F _{HIGH}	2480	2DH5-Sngl	3303.4	-48.46	3.71	-16.3	-32.16	PASS
F _{LOW}	2402	3DH5-Sngl	3202.5	-44.94	2.95	-17.1	-27.84	PASS
F _{MID}	2441	3DH5-Sngl	3258.6	-45.77	2.75	-17.3	-28.47	PASS
F _{HIGH}	2480	3DH5-Sngl	3303.4	-47.62	1.27	-18.7	-28.92	PASS
Comments:								

Conducted spurious emissions – DH5-Sngl F_{Low}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: T_{nom} / V_{nom}
 Mode: Tx, BT, GFSK, 2402 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



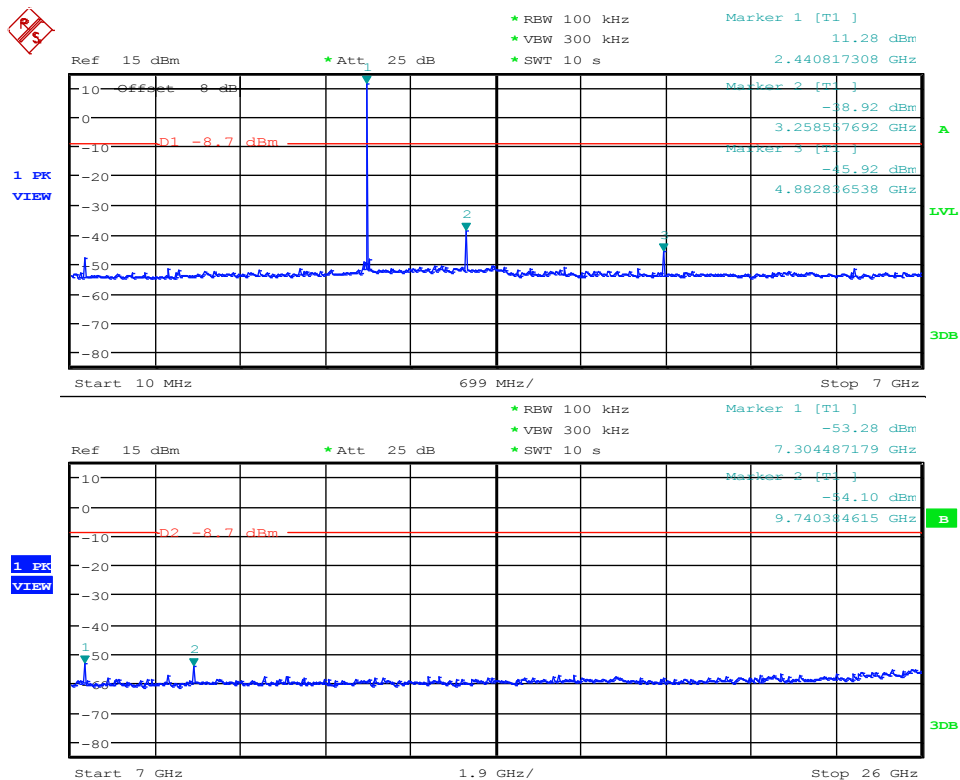
Date: 29.APR.2015 14:28:08

Conducted spurious emissions – DH5-Sngl F_{MID}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: T_{nom} / V_{nom}
 Mode: Tx, BT, GFSK, 2441 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



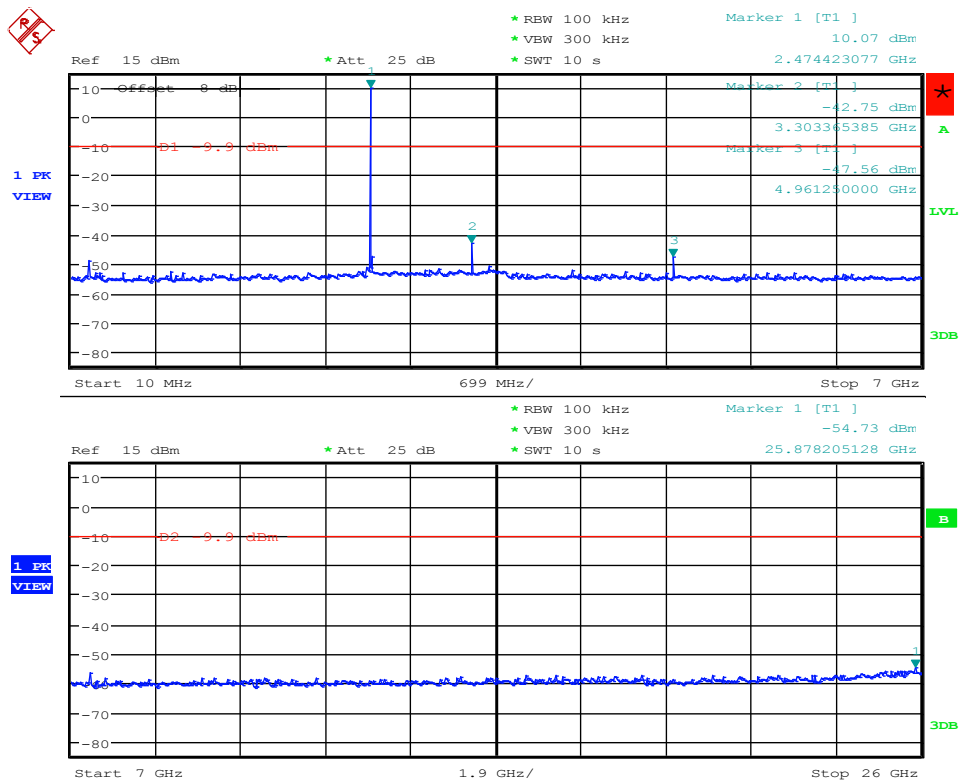
Date: 29.APR.2015 14:31:21

Conducted spurious emissions – DH5-Sngl F_{HIGH}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, GFSK, 2480 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



Date: 29.APR.2015 14:33:25

Test Report No.: G0M-1503-4620-TFC247BT-V01

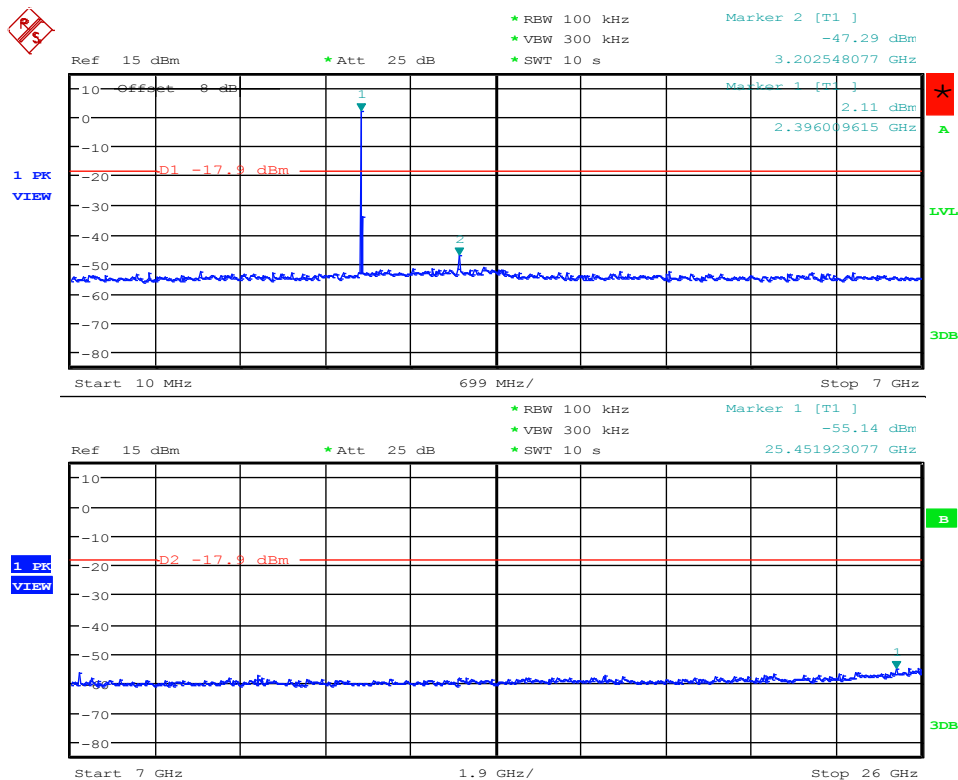
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted spurious emissions – 2-DH5-Sngl F_{LOW}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, PI/4-DQPSK, 2402 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



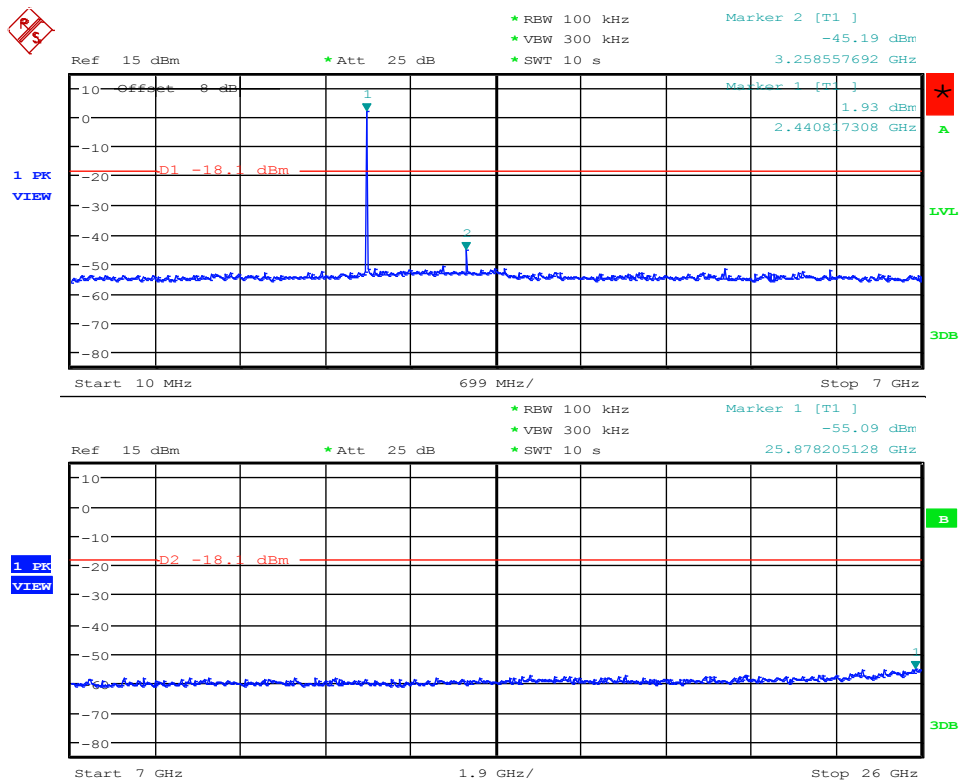
Date: 29.APR.2015 14:41:38

Conducted spurious emissions – 2-DH5-Sngl F_{MID}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, PI/4-DQPSK, 2441 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



Date: 29.APR.2015 14:40:05

Test Report No.: G0M-1503-4620-TFC247BT-V01

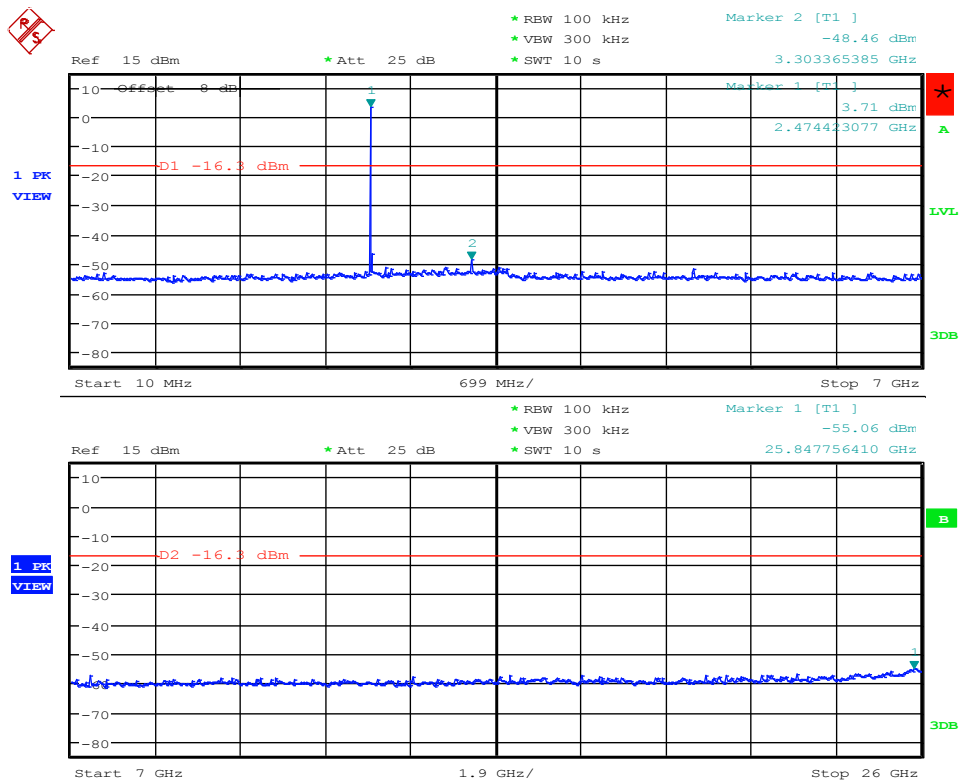
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Conducted spurious emissions – 2-DH5-Sngl F_{HIGH}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, PI/4-DQPSK, 2480 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



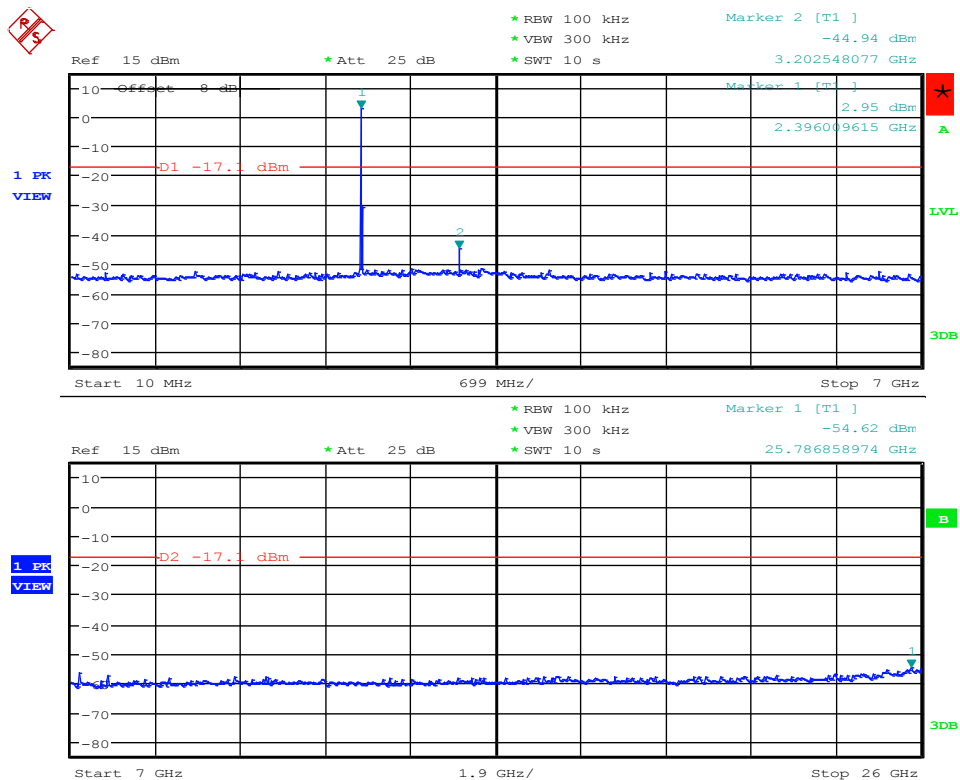
Date: 29.APR.2015 14:36:05

Conducted spurious emissions – 3-DH5-Sngl F_{LOW}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, 8-DPSK, 2402 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



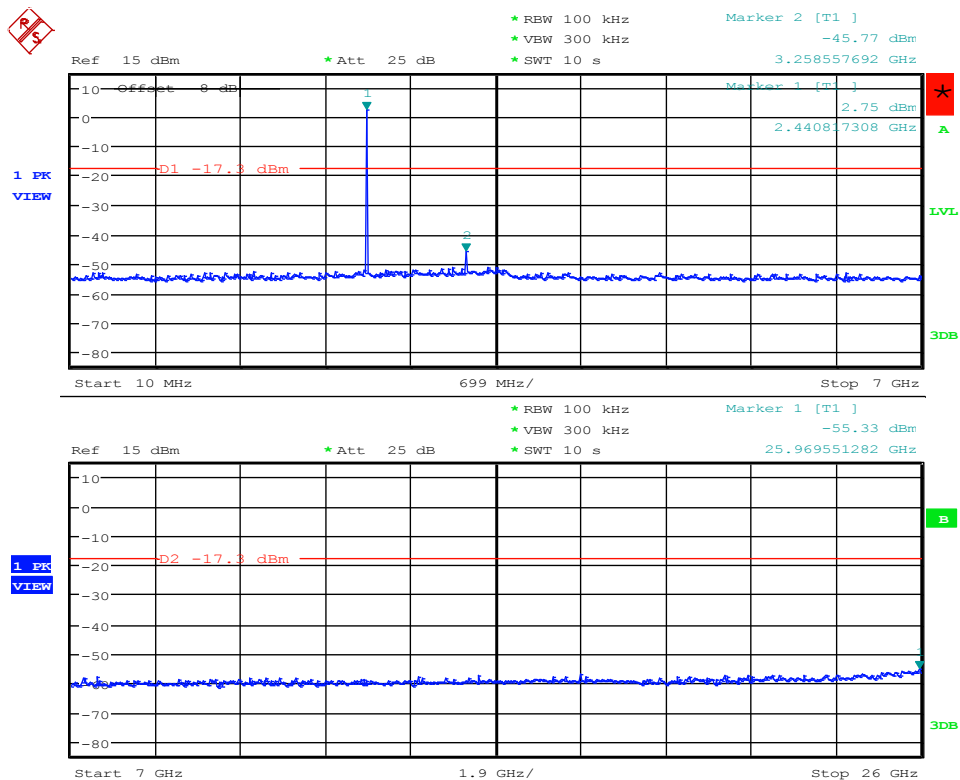
Date: 29.APR.2015 14:43:29

Conducted spurious emissions – 3-DH5-Sngl F_{MID}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, 8-DPSK, 2441 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



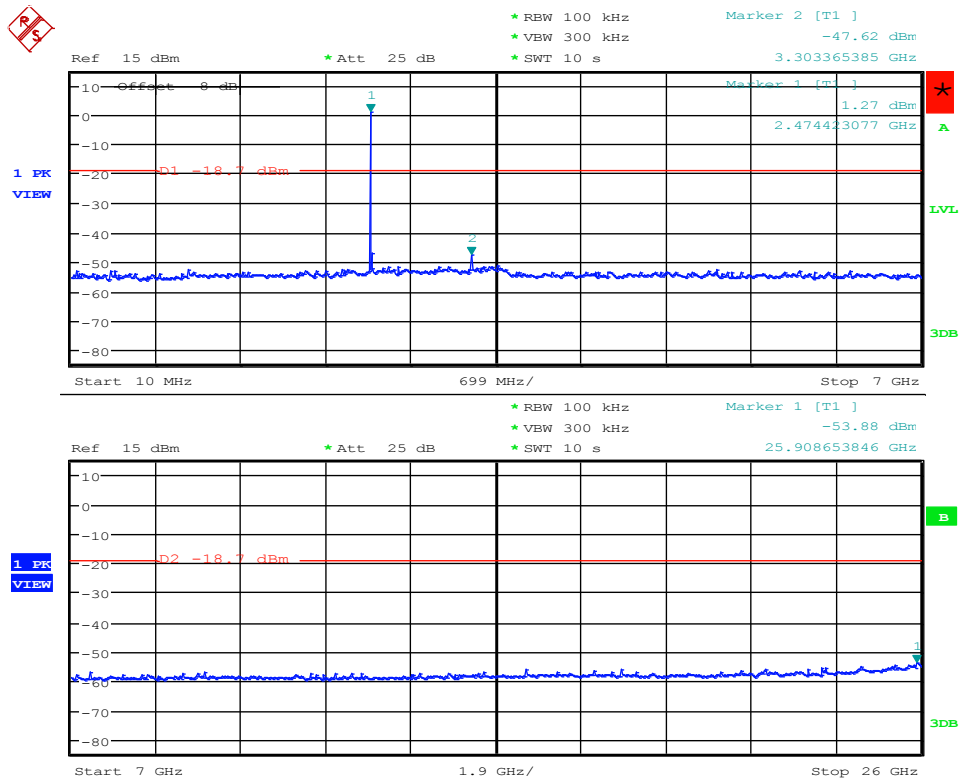
Date: 29.APR.2015 14:44:54

Conducted spurious emissions – 3-DH5-Sngl F_{HIGH}

Spurious Emissions acc. to FCC 15.247

Project Number: G0M-1503-4620

Applicant: Bartec-Pixavi AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: M. Handrik
 Test Conditions: Tnom / Vnom
 Mode: Tx, BT, 8-DPSK, 2480 MHz, modulated
 Test Date: 2015-04-29
 Verdict: PASS
 Note 1: Spurious in non-restricted frequency bands
 Note 2: conducted measurement



Date: 29.APR.2015 15:30:40

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 – DH5

Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Limit dist. [m]*	Margin [dB]
F _{LOW}	2402	DH5-Sngl	2377	50.81	pk	ver	74.00	3	-23.19
F _{LOW}	2402	DH5-Sngl	2377	27.24	avg	ver	54.00	3	-26.76
F _{LOW}	2402	DH5-Sngl	2377	51.20	pk	hor	74.00	3	-22.80
F _{LOW}	2402	DH5-Sngl	2377	27.44	avg	hor	54.00	3	-26.56
F _{LOW}	2402	DH5-Sngl	4800	50.70	pk	hor	74.00	3	-23.30
F _{LOW}	2402	DH5-Sngl	4804	53.16	pk	ver	74.00	3	-20.84
F _{LOW}	2402	DH5-Sngl	4804	48.82	avg	ver	54.00	3	-05.18
F _{LOW}	2402	DH5-Sngl	12009	54.66	pk	hor	74.00	3	-19.34
F _{LOW}	2402	DH5-Sngl	12009	45.41	avg	hor	54.00	3	-08.59
F _{LOW}	2402	DH5-Sngl	12011	58.41	pk	ver	74.00	3	-15.59
F _{LOW}	2402	DH5-Sngl	12011	50.17	avg	ver	54.00	3	-03.83
F _{MID}	2441	DH5-Sngl	2389	49.15	pk	ver	74.00	3	-24.85
F _{MID}	2441	DH5-Sngl	2389	48.43	pk	hor	74.00	3	-25.57
F _{MID}	2441	DH5-Sngl	2490	47.52	pk	hor	74.00	3	-26.48
F _{MID}	2441	DH5-Sngl	4882	56.85	pk	ver	74.00	3	-17.15
F _{MID}	2441	DH5-Sngl	4882	52.49	avg	ver	54.00	3	-01.51
F _{MID}	2441	DH5-Sngl	4882	56.48	pk	hor	74.00	3	-17.52
F _{MID}	2441	DH5-Sngl	4882	52.30	avg	hor	54.00	3	-01.70
F _{MID}	2441	DH5-Sngl	7322	59.34	pk	hor	74.00	3	-14.66
F _{MID}	2441	DH5-Sngl	7322	53.73	avg	hor	54.00	3	-00.27
F _{MID}	2441	DH5-Sngl	7323	54.97	pk	ver	74.00	3	-19.03
F _{MID}	2441	DH5-Sngl	7323	48.71	avg	ver	54.00	3	-05.29
F _{MID}	2441	DH5-Sngl	9760	62.74	pk	ver	95.00	3	-32.26
F _{MID}	2441	DH5-Sngl	9760	60.76	pk	hor	95.00	3	-34.24
F _{MID}	2441	DH5-Sngl	12204	50.76	pk	ver	74.00	3	-23.24
F _{MID}	2441	DH5-Sngl	12204	51.06	pk	hor	74.00	3	-22.94
F _{HIGH}	2480	DH5-Sngl	2484	52.97	pk	ver	74.00	3	-21.03
F _{HIGH}	2480	DH5-Sngl	2484	46.28	avg	ver	54.00	3	-07.72
F _{HIGH}	2480	DH5-Sngl	2484	57.52	pk	hor	74.00	3	-16.48

Test Report No.: G0M-1503-4620-TFC247BT-V01

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

F _{HIGH}	2480	DH5-Sngl	2484	48.02	avg	hor	54.00	3	-05.98
F _{HIGH}	2480	DH5-Sngl	2487	47.57	pk	ver	74.00	3	-26.43
F _{HIGH}	2480	DH5-Sngl	2487	30.80	avg	ver	54.00	3	-23.20
F _{HIGH}	2480	DH5-Sngl	2487	51.36	pk	hor	74.00	3	-22.64
F _{HIGH}	2480	DH5-Sngl	2487	32.55	avg	hor	54.00	3	-21.45
F _{HIGH}	2480	DH5-Sngl	2489	50.97	pk	hor	74.00	3	-23.03
F _{HIGH}	2480	DH5-Sngl	2489	32.56	avg	hor	54.00	3	-21.44
F _{HIGH}	2480	DH5-Sngl	2490	44.15	pk	ver	74.00	3	-29.85
F _{HIGH}	2480	DH5-Sngl	2490	29.23	avg	ver	54.00	3	-24.77
F _{HIGH}	2480	DH5-Sngl	2493	43.17	pk	ver	74.00	3	-30.83
F _{HIGH}	2480	DH5-Sngl	2493	29.01	avg	ver	54.00	3	-24.99
F _{HIGH}	2480	DH5-Sngl	2493	48.07	pk	hor	74.00	3	-25.93
F _{HIGH}	2480	DH5-Sngl	2493	31.49	avg	hor	54.00	3	-22.51
F _{HIGH}	2480	DH5-Sngl	2496	43.41	pk	ver	74.00	3	-30.59
F _{HIGH}	2480	DH5-Sngl	2496	28.14	avg	ver	54.00	3	-25.86
F _{HIGH}	2480	DH5-Sngl	2496	46.05	pk	hor	74.00	3	-27.95
F _{HIGH}	2480	DH5-Sngl	2496	30.03	avg	hor	54.00	3	-23.97
F _{HIGH}	2480	DH5-Sngl	2503	54.51	pk	hor	95.00	3	-40.49
F _{HIGH}	2480	DH5-Sngl	4960	56.38	pk	ver	74.00	3	-17.62
F _{HIGH}	2480	DH5-Sngl	4960	52.75	avg	ver	54.00	3	-01.25
F _{HIGH}	2480	DH5-Sngl	4960	56.11	pk	hor	74.00	3	-17.89
F _{HIGH}	2480	DH5-Sngl	4960	51.79	avg	hor	54.00	3	-02.21
F _{HIGH}	2480	DH5-Sngl	7440	54.21	pk	hor	74.00	3	-19.79
F _{HIGH}	2480	DH5-Sngl	7440	47.97	avg	hor	54.00	3	-06.03
F _{HIGH}	2480	DH5-Sngl	12399	51.22	pk	ver	74.00	3	-22.78
F _{HIGH}	2480	DH5-Sngl	12399	41.38	avg	ver	54.00	3	-12.62
F _{HIGH}	2480	DH5-Sngl	12401	54.55	pk	hor	74.00	3	-19.45
F _{HIGH}	2480	DH5-Sngl	12401	44.55	avg	hor	54.00	3	-09.45
Test results – 3-DH5									
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Limit dist. [m]*	Margin [dB]
F _{LOW}	2402	3-DH5-Sngl	2377	47.68	pk	hor	74.00	3	-26.32
F _{LOW}	2402	3-DH5-Sngl	2377	27.59	avg	hor	54.00	3	-26.41
F _{LOW}	2402	3-DH5-Sngl	12000	52.56	pk	hor	74.00	3	-21.44
F _{LOW}	2402	3-DH5-Sngl	12010	54.96	pk	ver	74.00	3	-19.04
F _{LOW}	2402	3-DH5-Sngl	12010	45.07	avg	ver	54.00	3	-08.93
F _{MID}	2441	3-DH5-Sngl	4880	49.69	pk	ver	74.00	3	-24.31

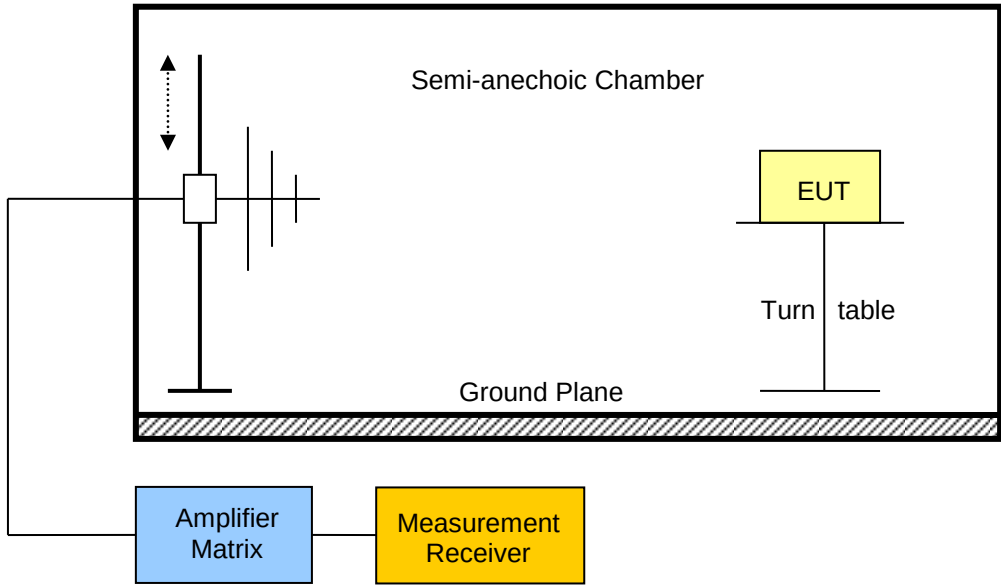
Test Report No.: G0M-1503-4620-TFC247BT-V01

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

F _{MID}	2441	3-DH5-Sngl	4882	53.26	pk	hor	74.00	3	-20.74
F _{MID}	2441	3-DH5-Sngl	4882	43.22	avg	hor	54.00	3	-10.78
F _{MID}	2441	3-DH5-Sngl	7320	52.27	pk	ver	74.00	3	-21.73
F _{MID}	2441	3-DH5-Sngl	7323	59.74	pk	hor	74.00	3	-14.26
F _{MID}	2441	3-DH5-Sngl	7323	52.42	avg	hor	54.00	3	-01.58
F _{HIGH}	2480	3-DH5-Sngl	2484	52.06	pk	ver	74.00	3	-21.94
F _{HIGH}	2480	3-DH5-Sngl	2484	39.42	avg	ver	54.00	3	-14.58
F _{HIGH}	2480	3-DH5-Sngl	2484	70.96	pk	hor	74.00	3	-03.04
F _{HIGH}	2480	3-DH5-Sngl	2484	36.36	avg	hor	54.00	3	-17.64
F _{HIGH}	2480	3-DH5-Sngl	2486	44.71	pk	hor	74.00	3	-29.29
F _{HIGH}	2480	3-DH5-Sngl	2486	29.45	avg	hor	54.00	3	-24.55
F _{HIGH}	2480	3-DH5-Sngl	2489	43.90	pk	ver	74.00	3	-30.10
F _{HIGH}	2480	3-DH5-Sngl	2489	27.85	avg	ver	54.00	3	-26.15
F _{HIGH}	2480	3-DH5-Sngl	2490	57.61	pk	hor	74.00	3	-16.39
F _{HIGH}	2480	3-DH5-Sngl	2490	28.87	avg	hor	54.00	3	-25.13
F _{HIGH}	2480	3-DH5-Sngl	2496	44.52	pk	hor	74.00	3	-29.48
F _{HIGH}	2480	3-DH5-Sngl	2496	28.36	avg	hor	54.00	3	-25.64
F _{HIGH}	2480	3-DH5-Sngl	4960	49.31	pk	ver	74.00	3	-24.69
F _{HIGH}	2480	3-DH5-Sngl	4960	51.21	pk	hor	74.00	3	-22.79
F _{HIGH}	2480	3-DH5-Sngl	7432	47.98	pk	ver	74.00	3	-26.02
F _{HIGH}	2480	3-DH5-Sngl	7439	50.79	pk	hor	74.00	3	-23.21
F _{HIGH}	2480	3-DH5-Sngl	7439	42.17	avg	hor	54.00	3	-11.83

Comments: * Physical distance between EUT and measurement antenna.

3.11 Test Conditions and Results – Receiver radiated emissions

Receiver radiated emissions acc. IC RSS-247				Verdict: PASS
Test according referenced standards	Reference Method			
	IC RSS-247 3.1			
Test according to measurement reference	Reference Method			
	ANSI C63.10			
Test frequency range	Tested frequencies			
	30 MHz – 5 th Harmonic			
EUT test mode	Receive			
Limits				
Frequency range [MHz]	Detector	Limit [μV/m]	Limit [dBμV/m]	Limit Distance [m]
30 – 88	Quasi-Peak	100	40	3
88 – 216	Quasi-Peak	150	43.5	3
216 – 960	Quasi-Peak	200	46	3
960 – 1000	Quasi-Peak	500	54	3
> 1000	Average	500	54	3
Test setup				
				

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 [db μ V/m]	Emission Level [μ V/m]	Det.	Limit [μ V/m]	Margin [μ V/m]
Bluetooth	RX scan mode	2428	41.17	114.42	pk	500	-385.58
Bluetooth	RX scan mode	2428	49.93	313.69	avg	500	-186.31
Comments:							

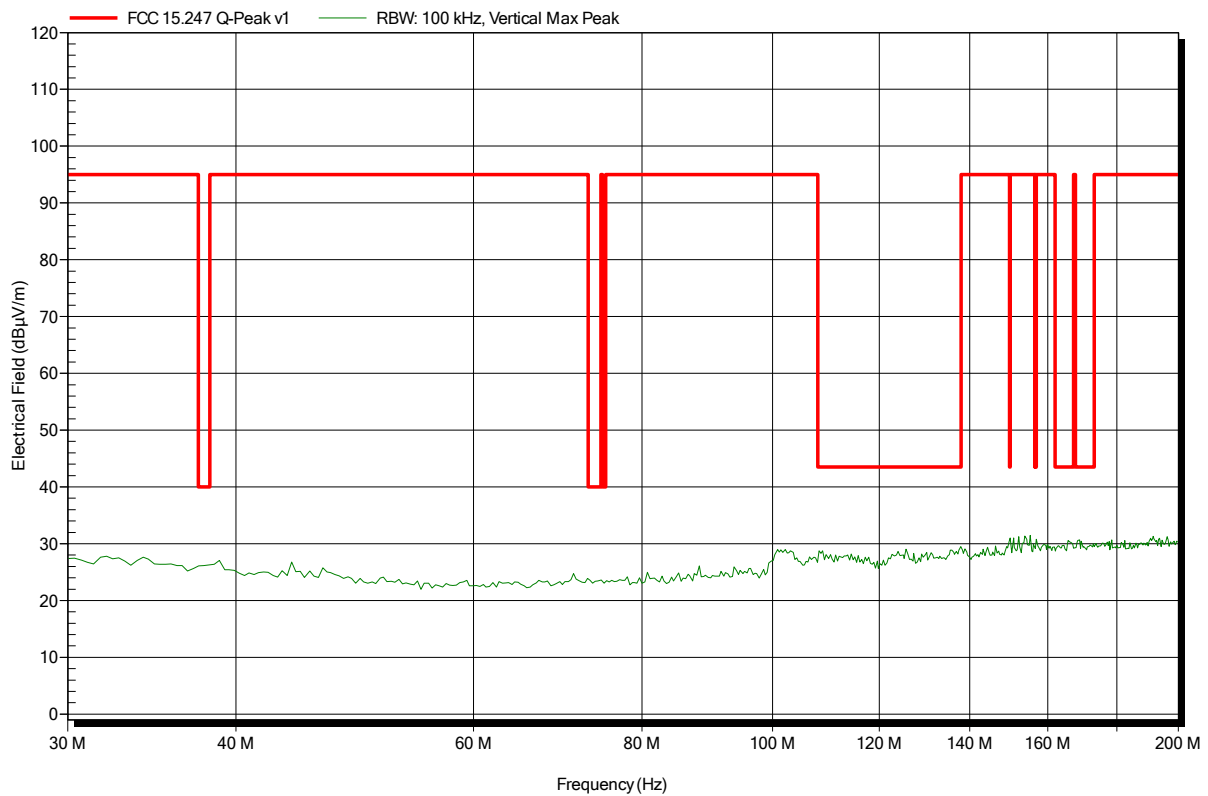
ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2402 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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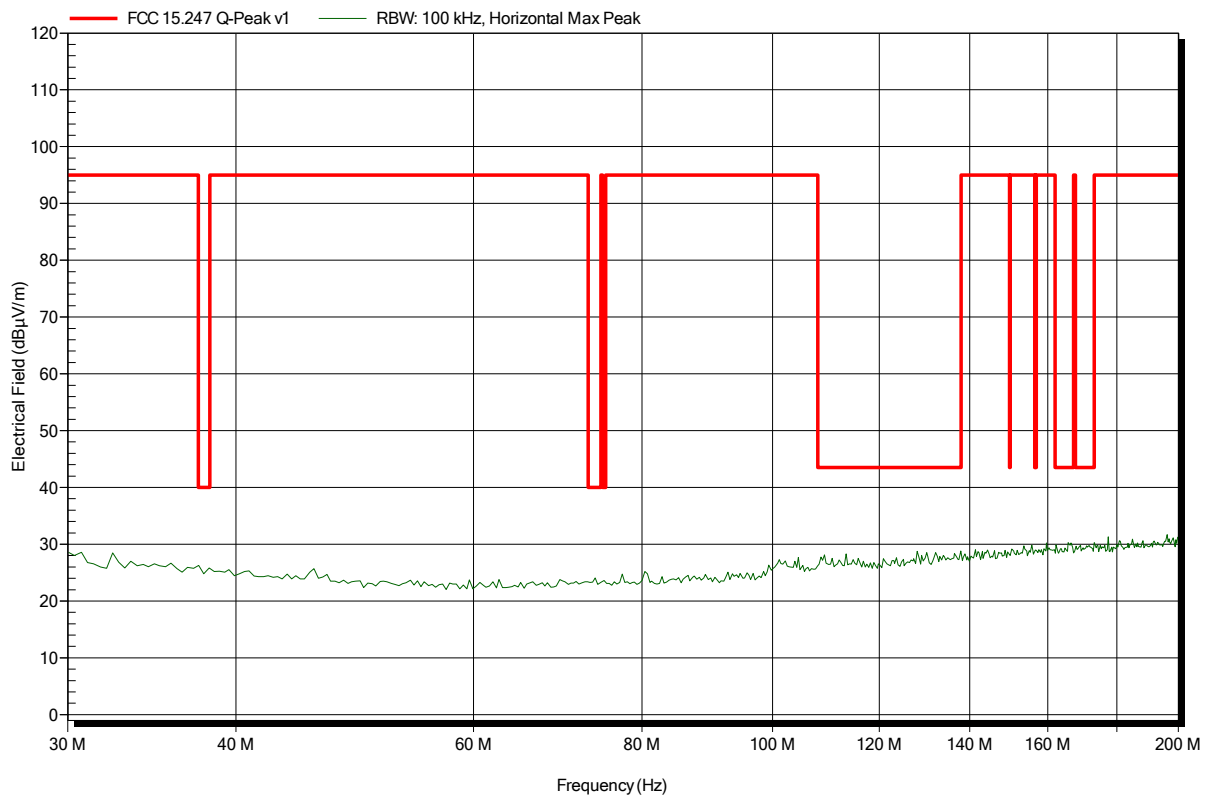


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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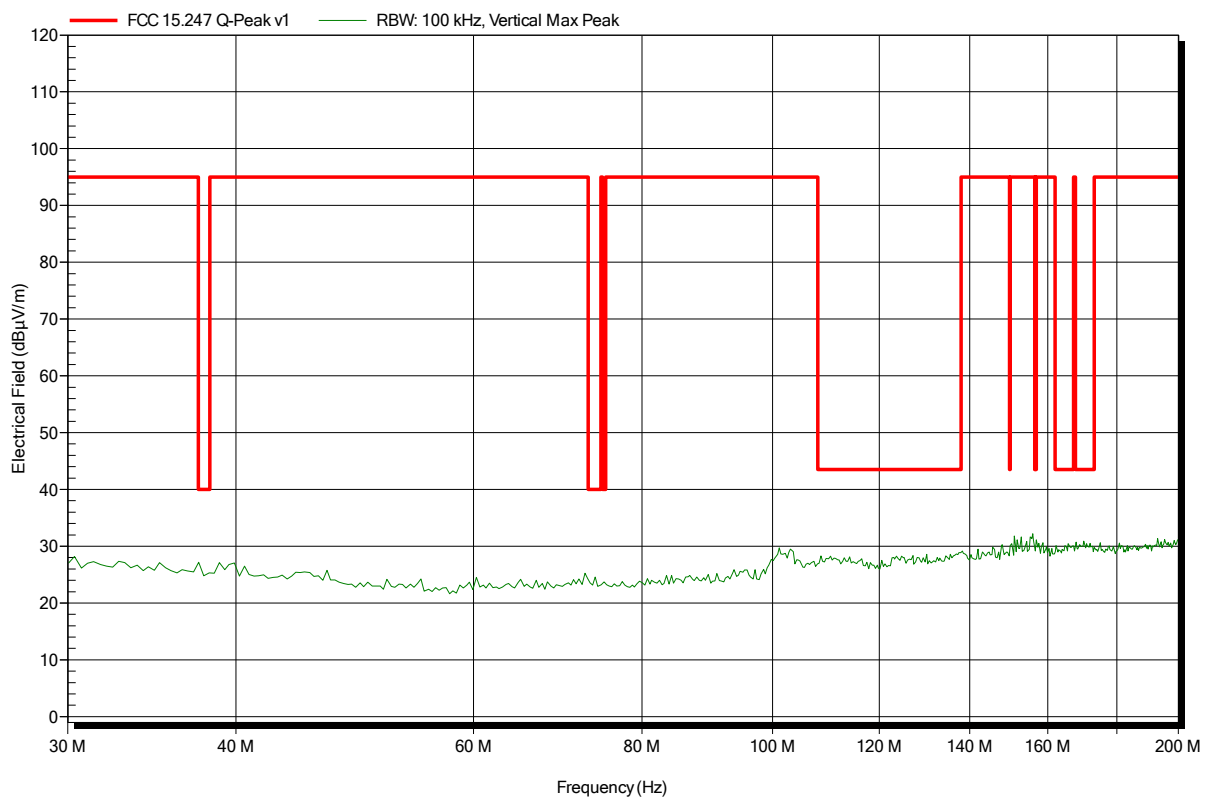


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2441 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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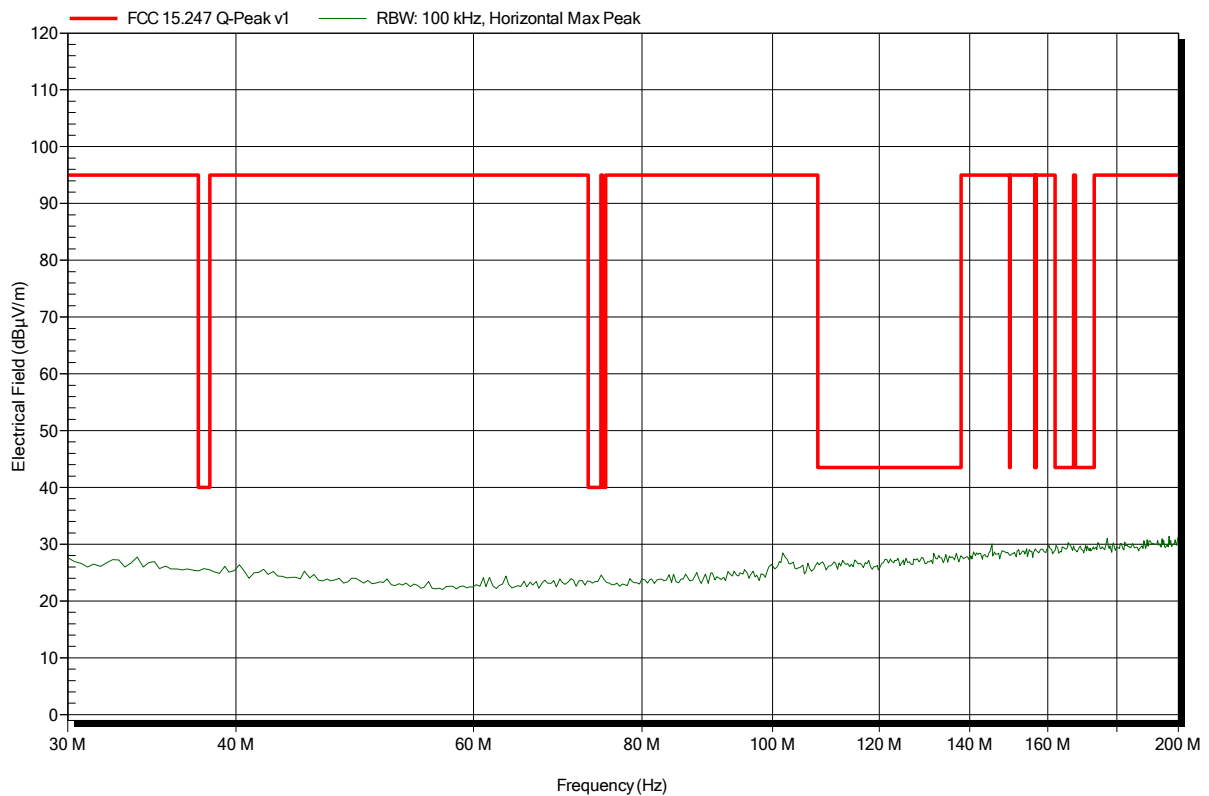


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2441 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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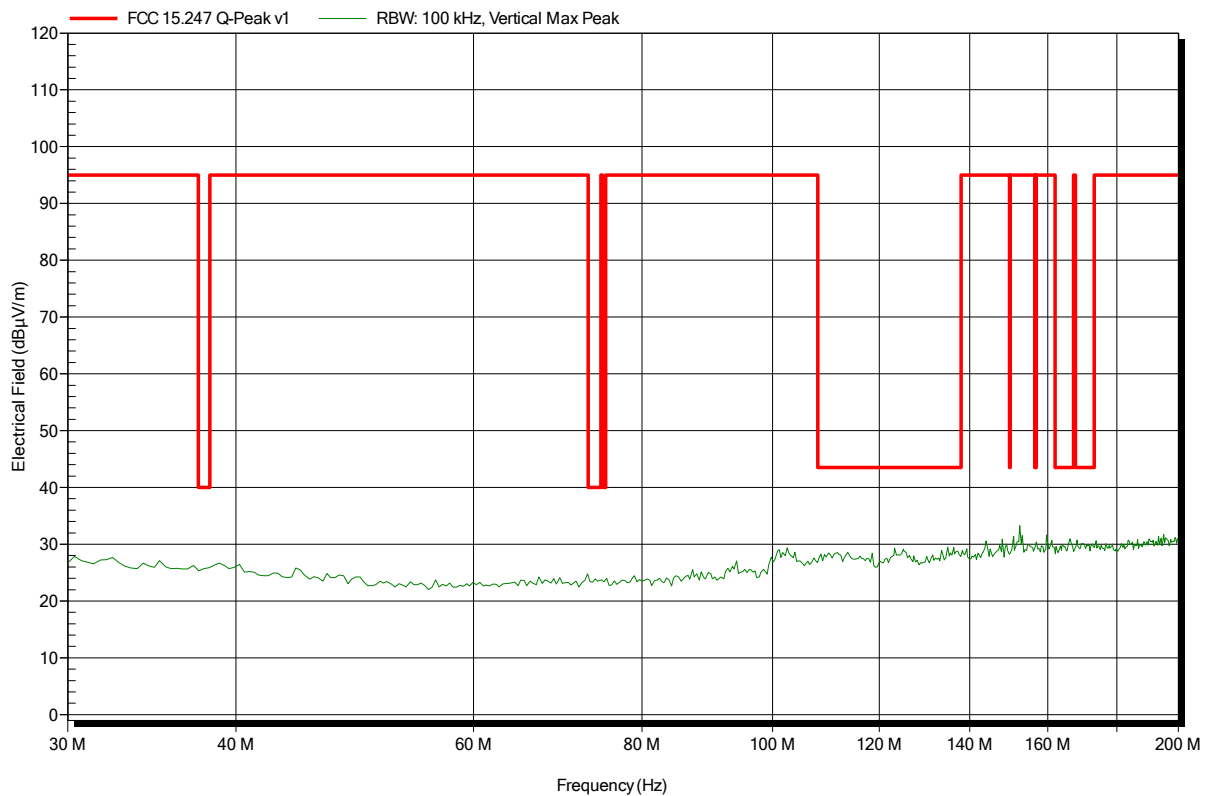


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2480 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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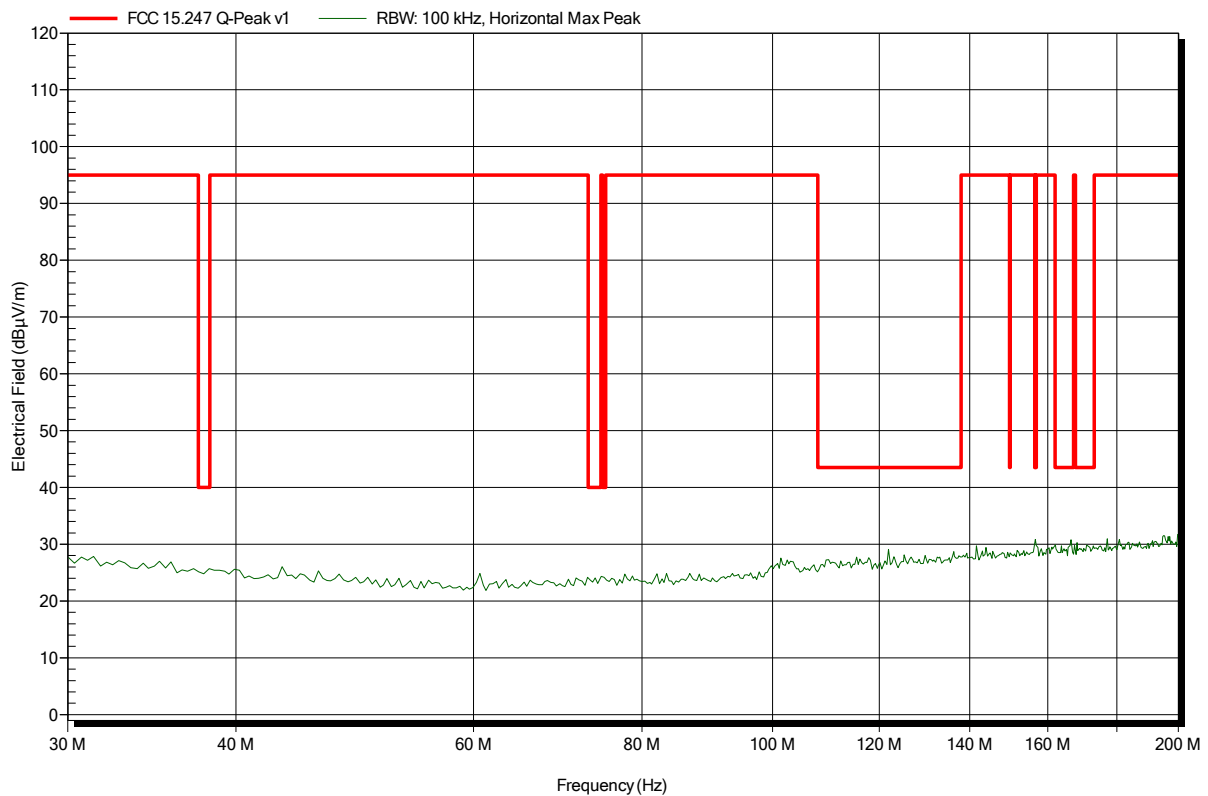


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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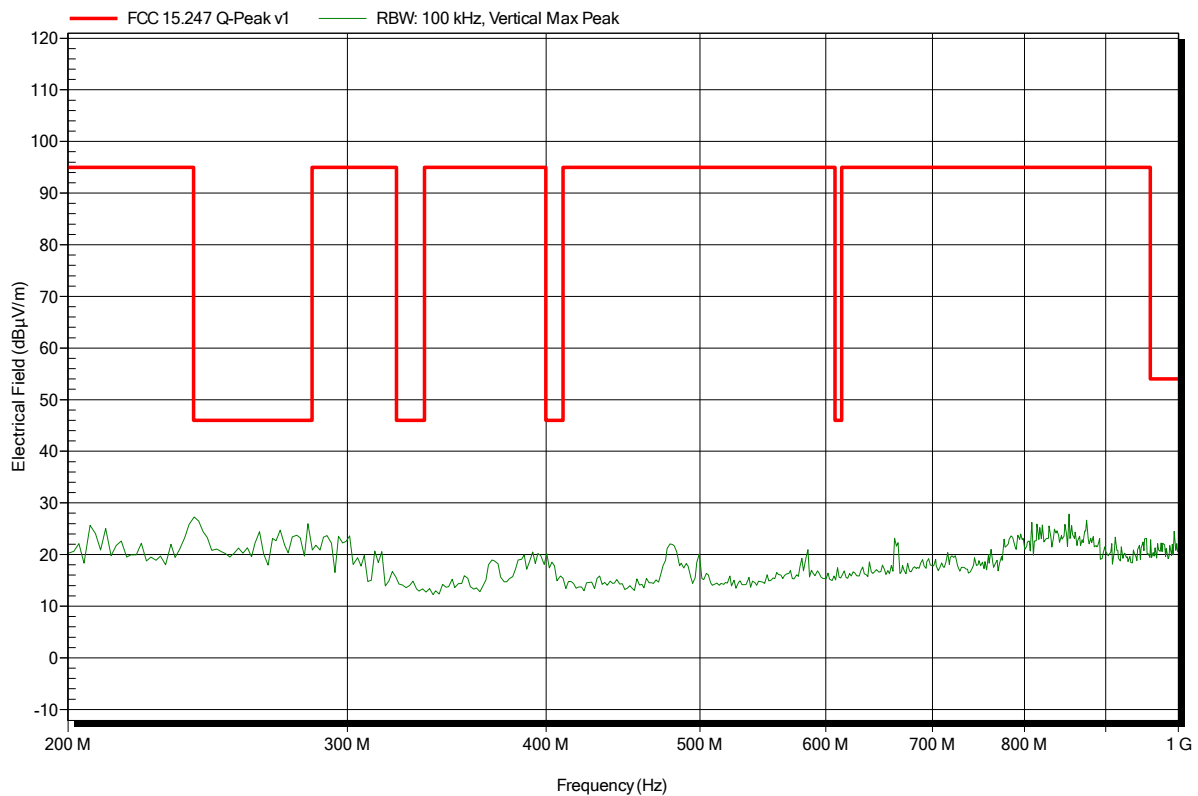


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2402 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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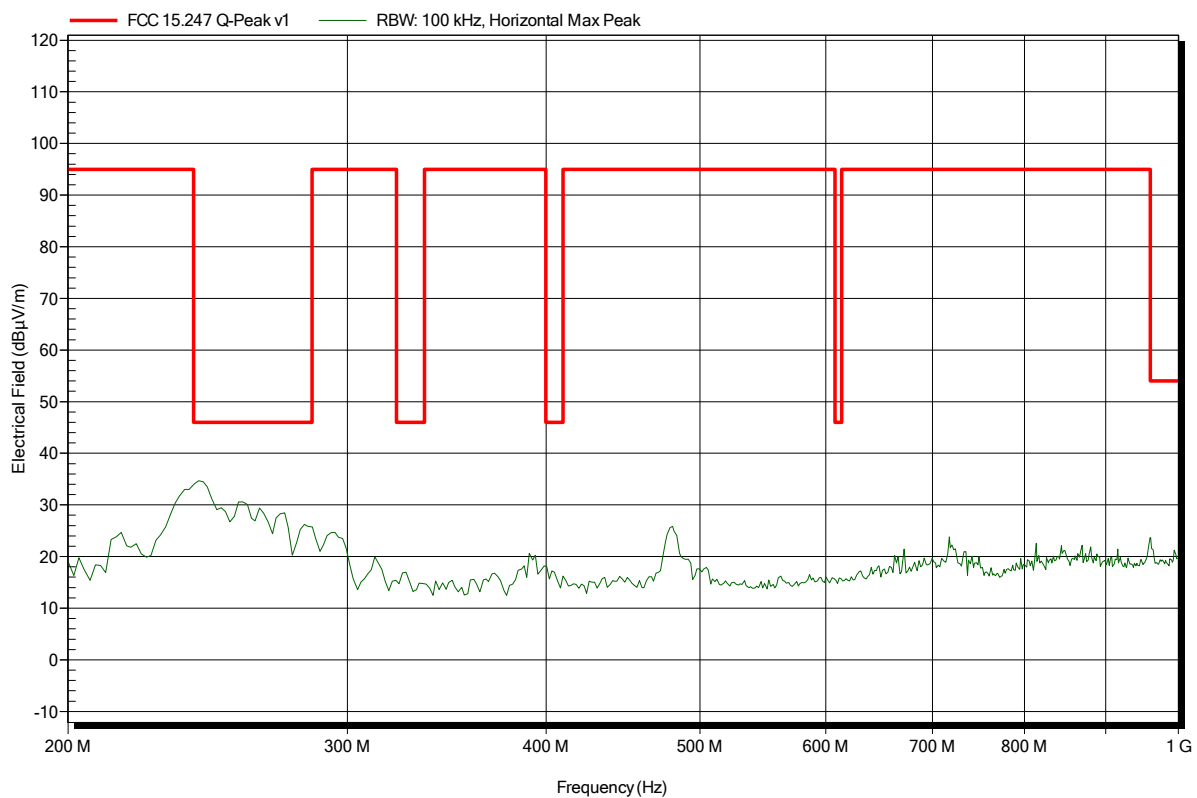


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2402 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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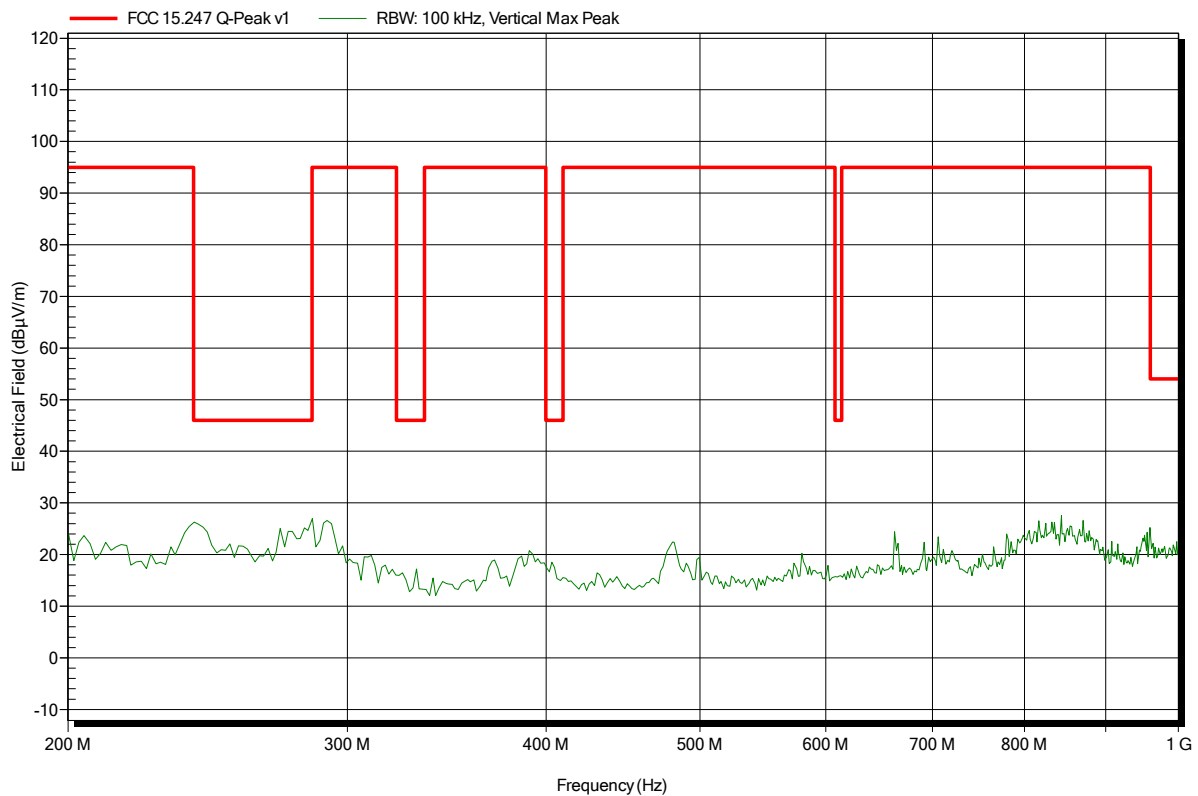


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2441 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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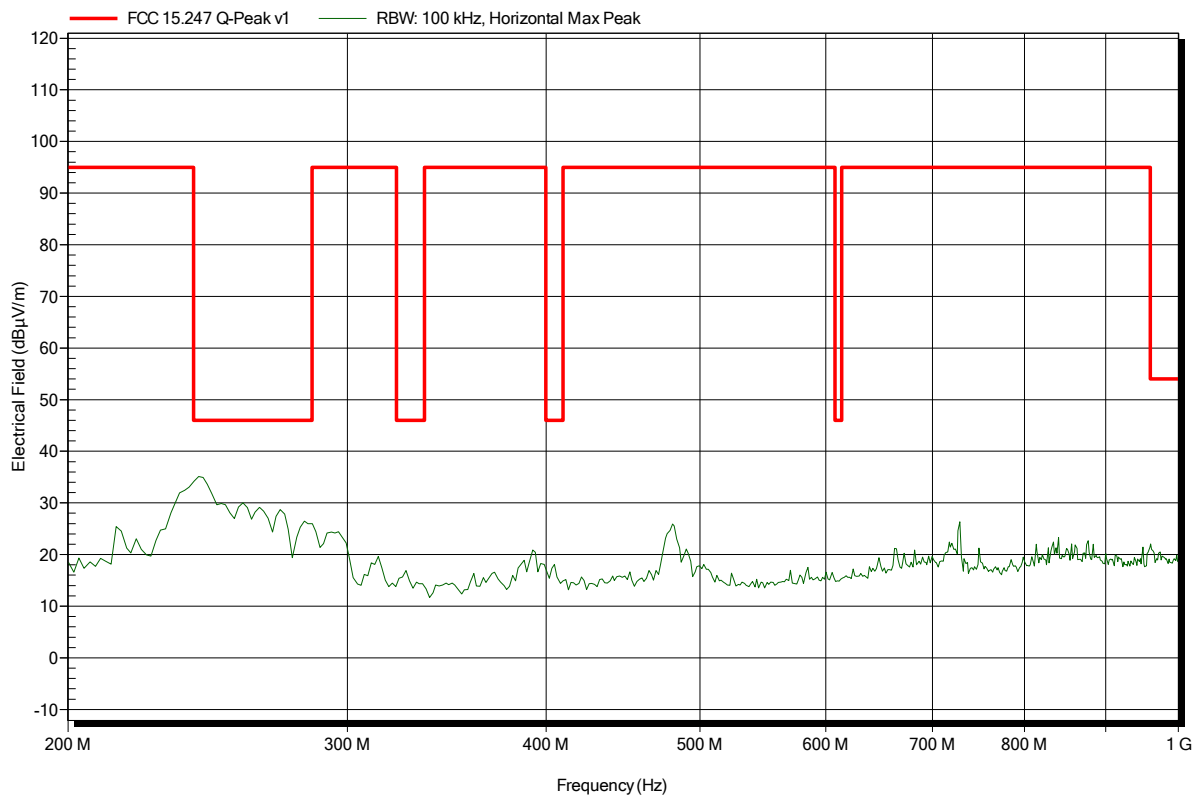


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2441 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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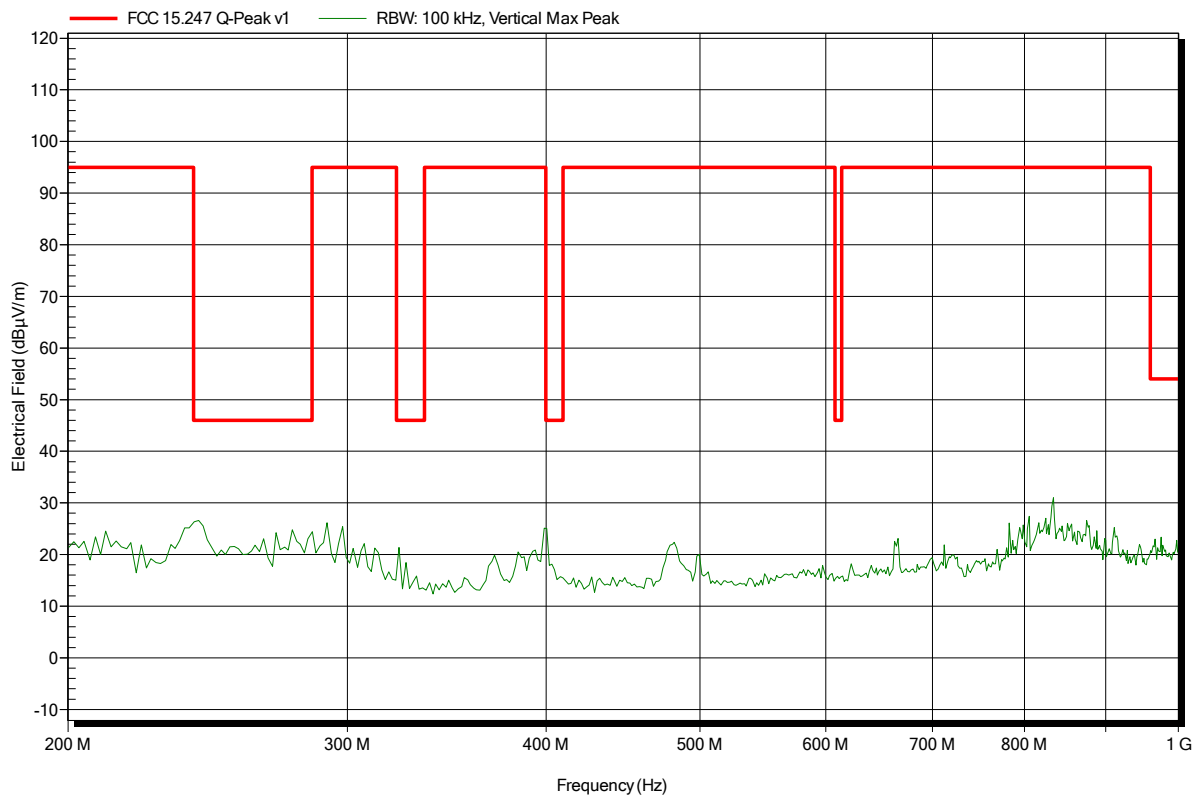


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2480 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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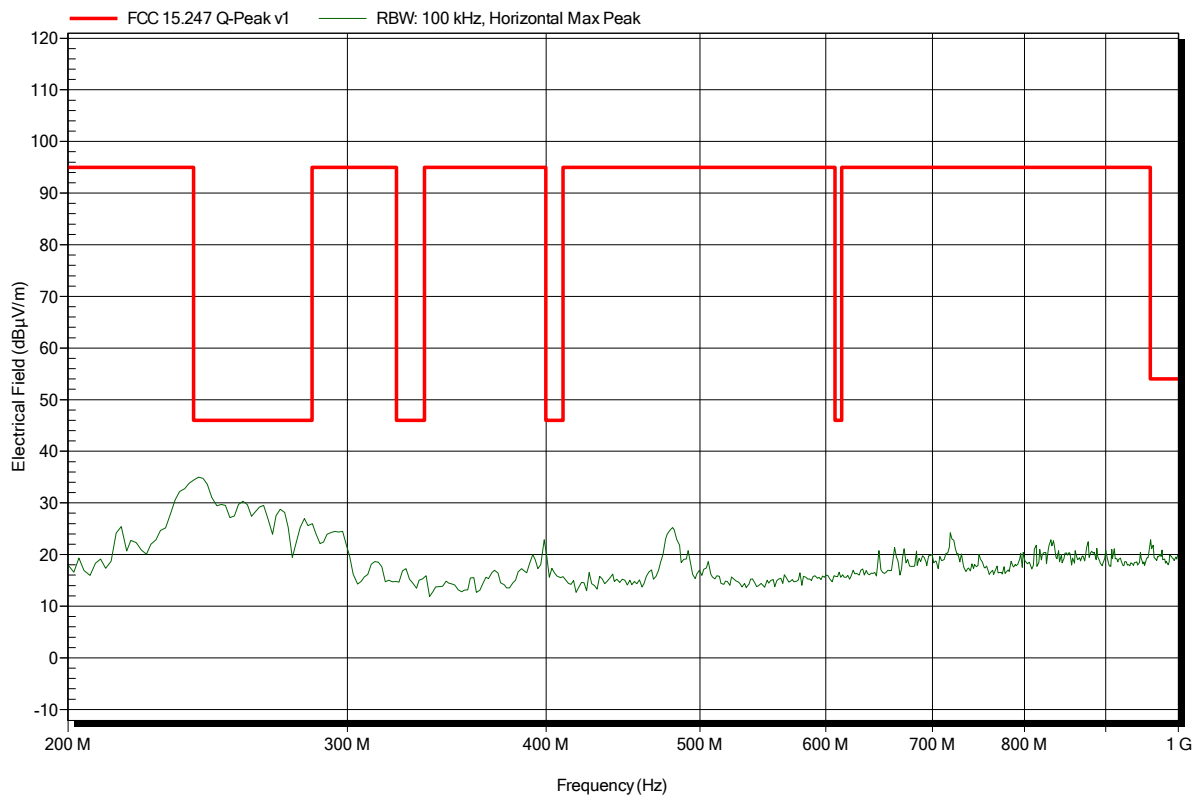


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2480 MHz, DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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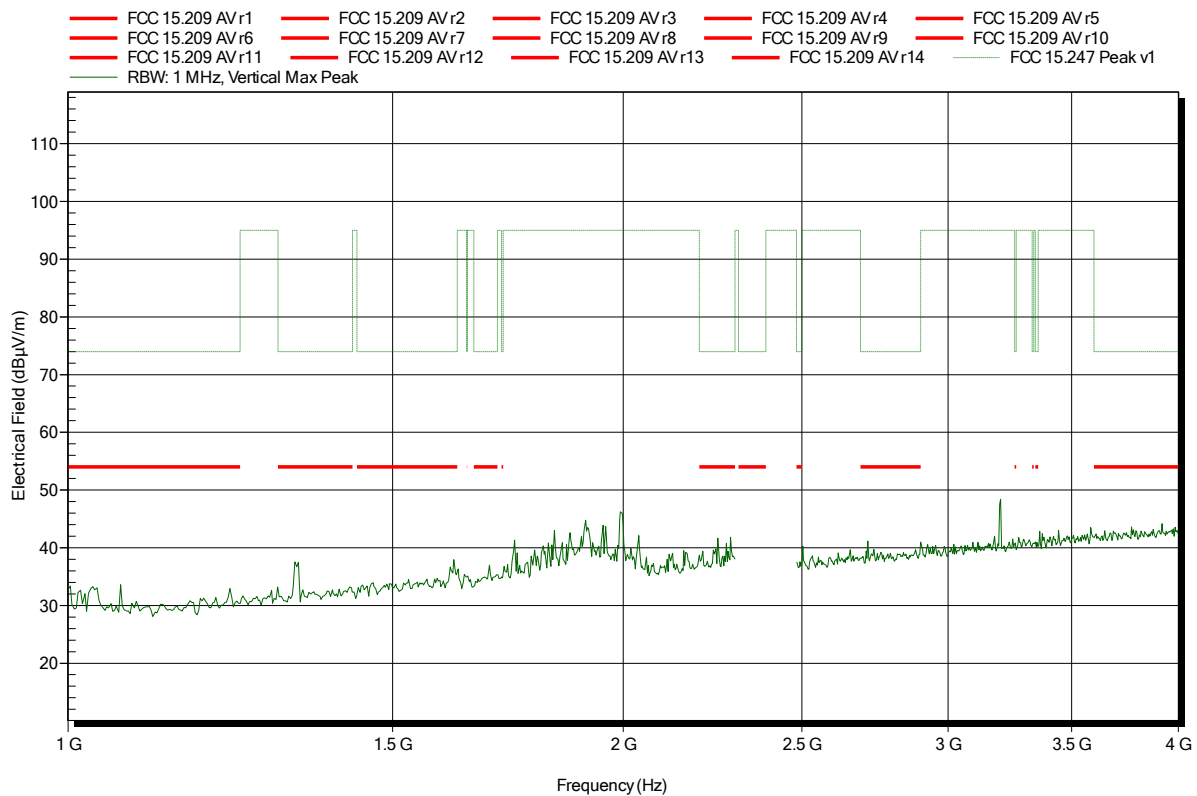


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-27
 Note: EUT horizontal

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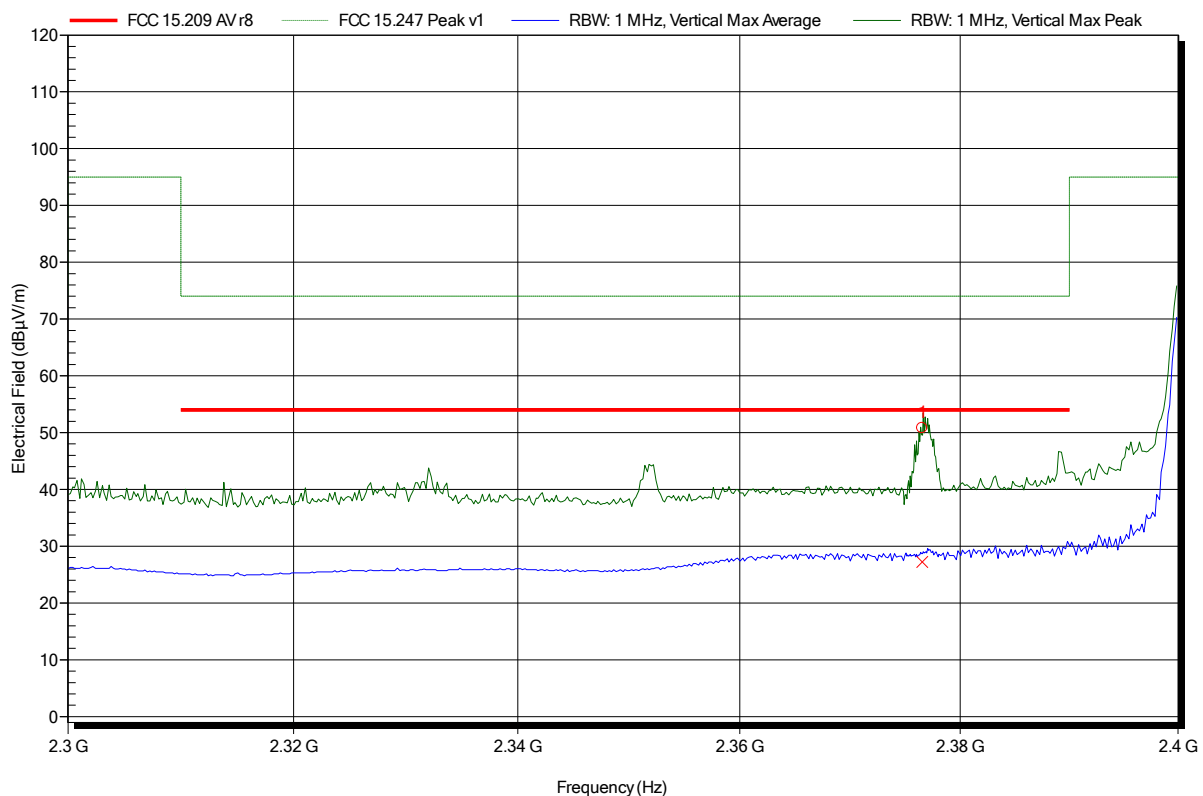


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-27
 Note: EUT horizontal; lower bandedge

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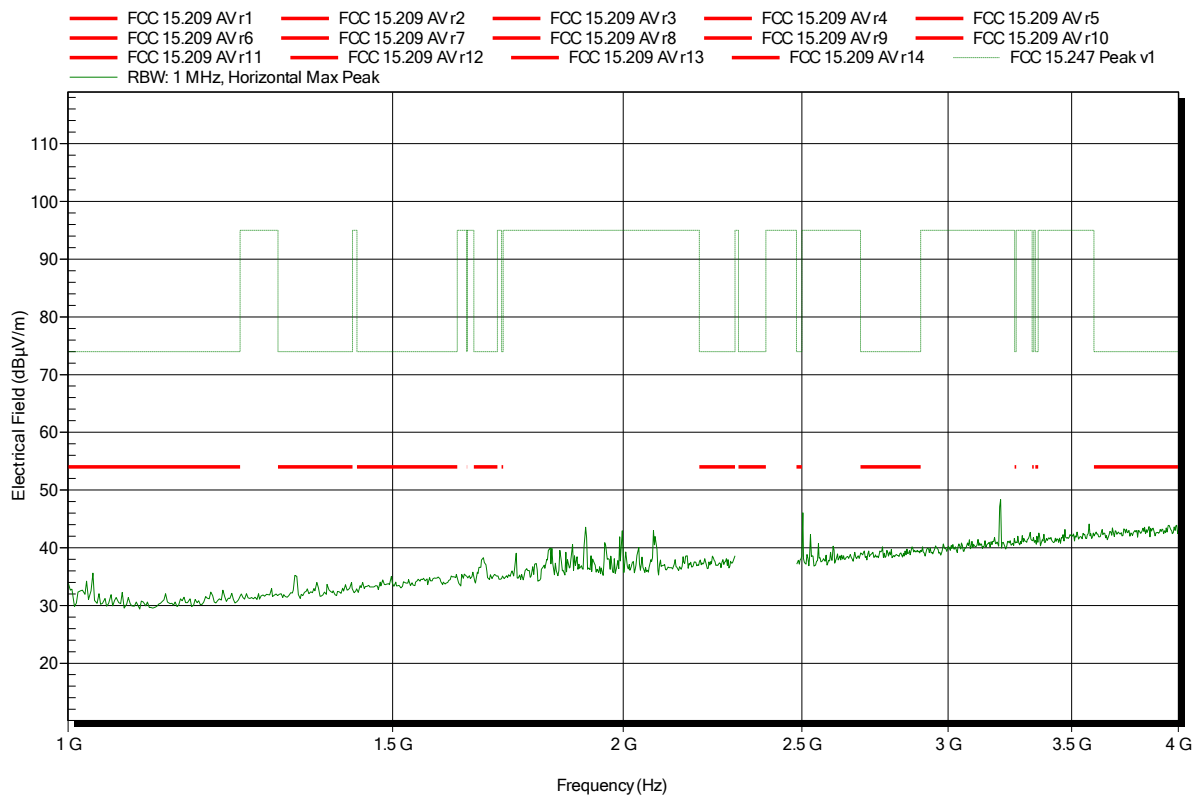
Frequency 2.377 GHz	Peak 50.81 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -23.19 dB	Peak Status Pass
Frequency 2.377 GHz	Average 27.24 dBµV/m	Average Limit 54 dBµV/m	Average Difference -26.76dB	Average Status Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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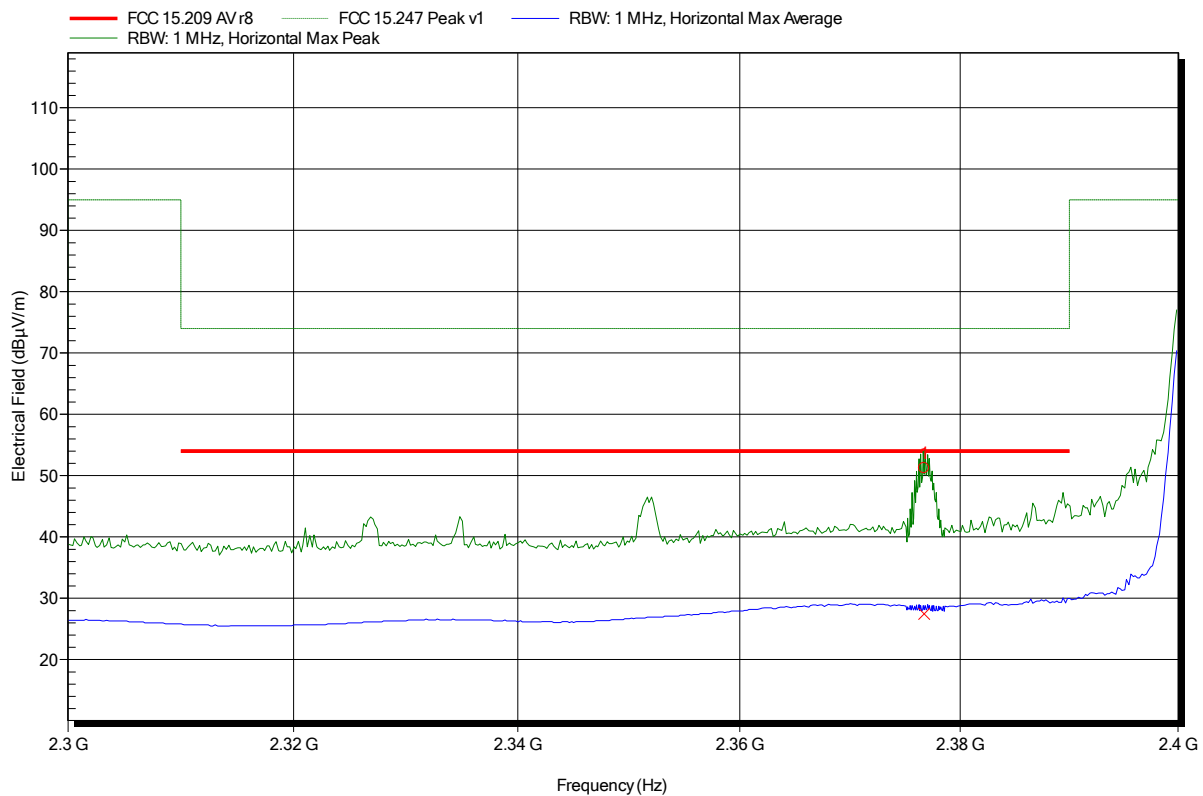


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal; lower bandedge

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Frequency 2.377 GHz	Peak 51.2 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -22.8 dB	Peak Status Pass
Frequency 2.377 GHz	Average 27.44 dBµV/m	Average Limit 54 dBµV/m	Average Difference -26.56 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247BT-V01

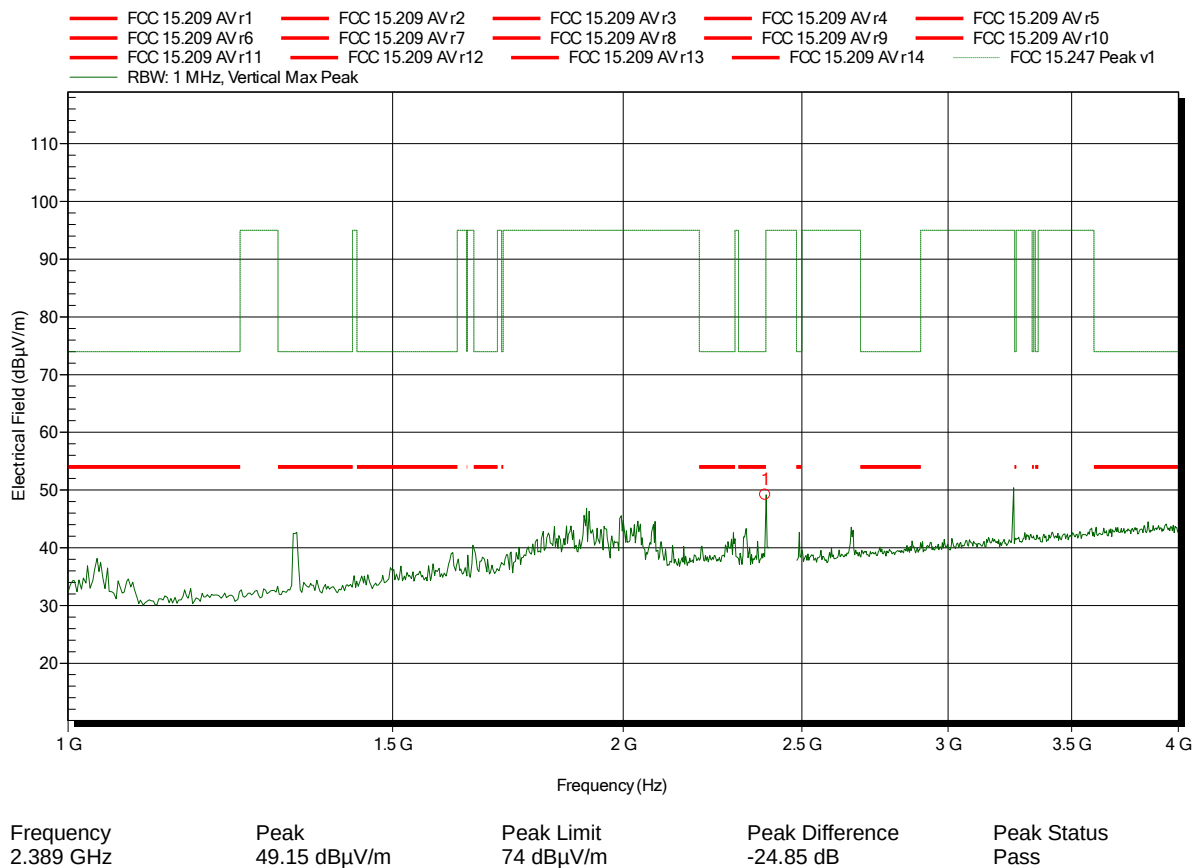
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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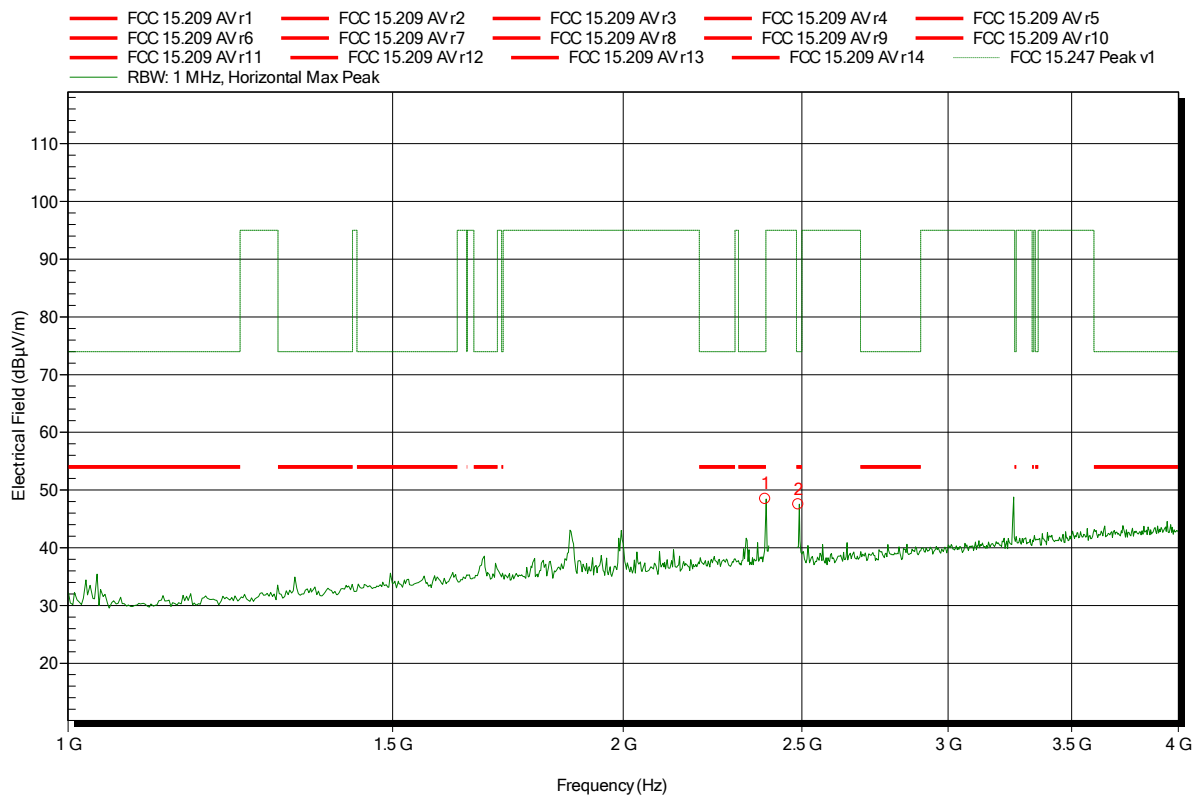


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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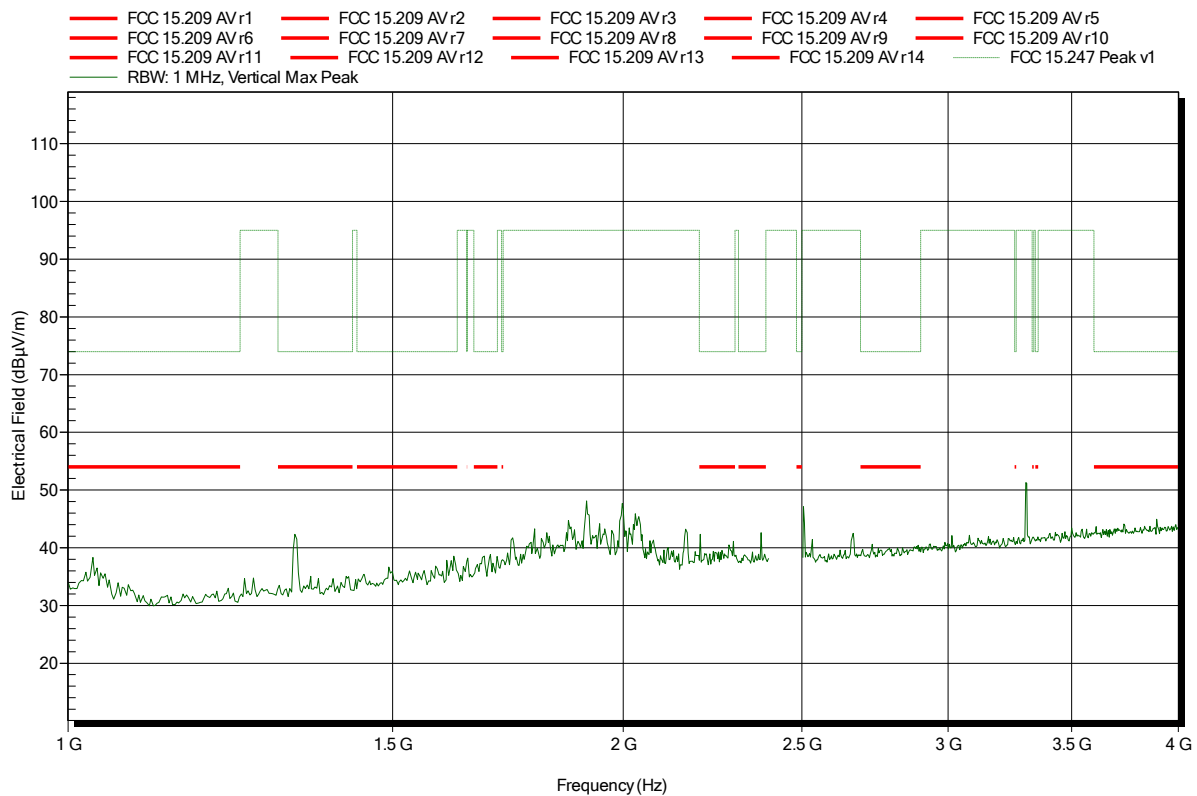
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.389 GHz	48.43 dBµV/m	74 dBµV/m	-25.57 dB	Pass
2.49 GHz	47.52 dBµV/m	74 dBµV/m	-26.48 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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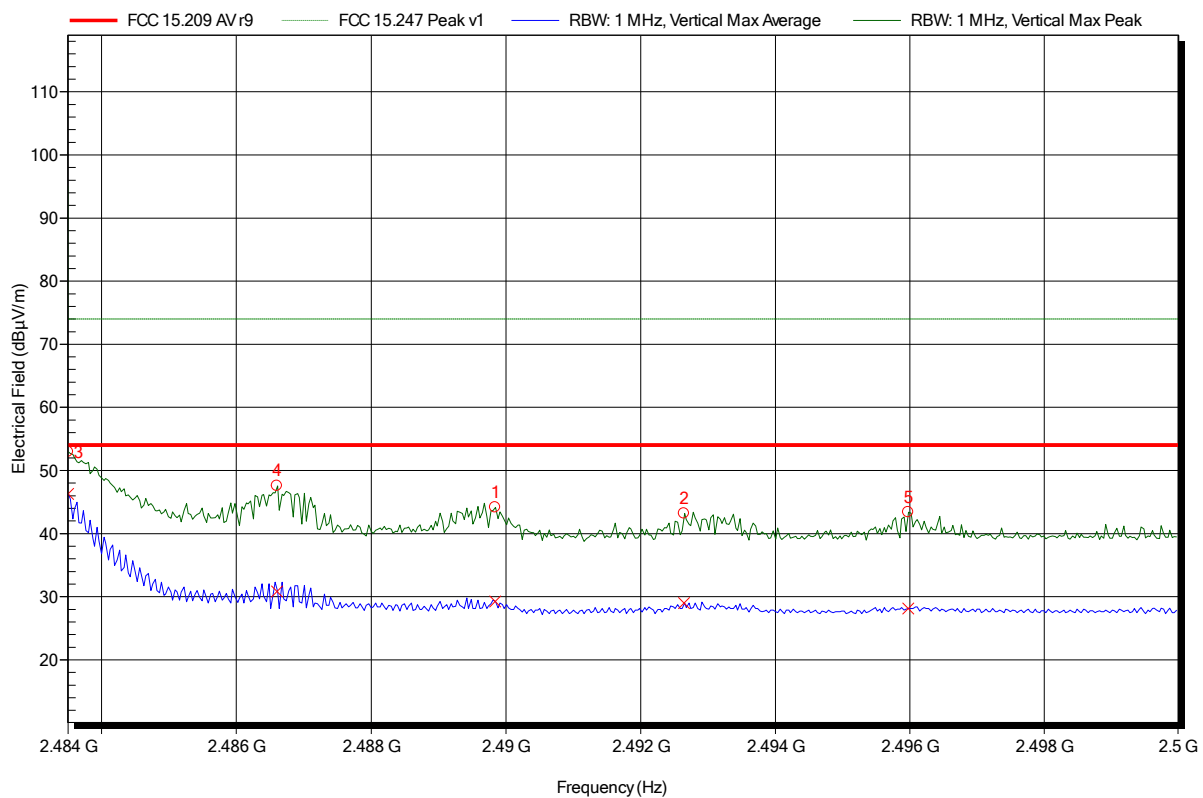


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna: Rohde & Schwarz HL 025, Vertical
Measurement distance: 3 m
Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
Test Date: 2015-04-28
Note: EUT horizontal; higher bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	52.97 dBμV/m	74 dBμV/m	-21.03 dB	Pass
2.487 GHz	47.57 dBμV/m	74 dBμV/m	-26.43 dB	Pass
2.49 GHz	44.15 dBμV/m	74 dBμV/m	-29.85 dB	Pass
2.493 GHz	43.17 dBμV/m	74 dBμV/m	-30.83 dB	Pass
2.496 GHz	43.41 dBμV/m	74 dBμV/m	-30.59 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.484 GHz	46.28 dBμV/m	54 dBμV/m	-7.72 dB	Pass
2.487 GHz	30.8 dBμV/m	54 dBμV/m	-23.2 dB	Pass
2.49 GHz	29.23 dBμV/m	54 dBμV/m	-24.77 dB	Pass
2.493 GHz	29.01 dBμV/m	54 dBμV/m	-24.99 dB	Pass
2.496 GHz	28.14 dBμV/m	54 dBμV/m	-25.86 dB	Pass

Test Report No.: G0M-1503-4620-TFC247BT-V01

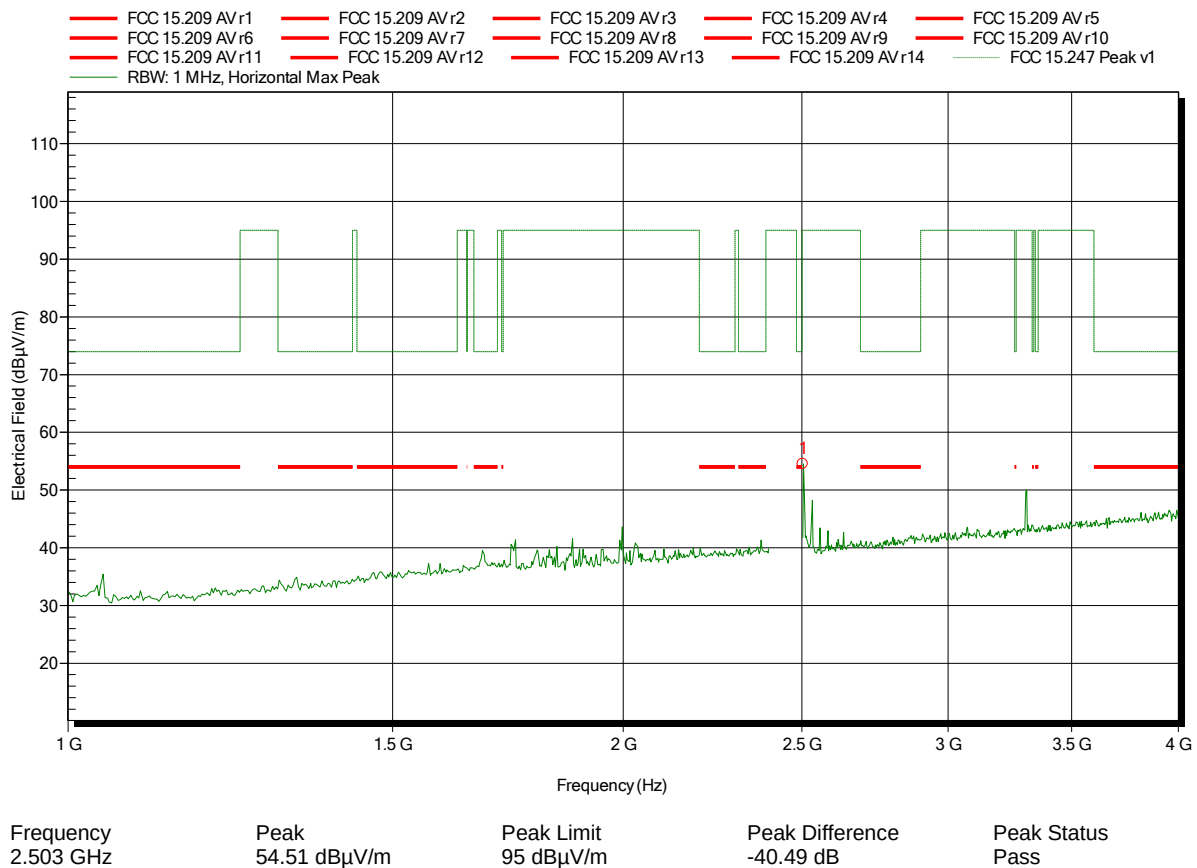
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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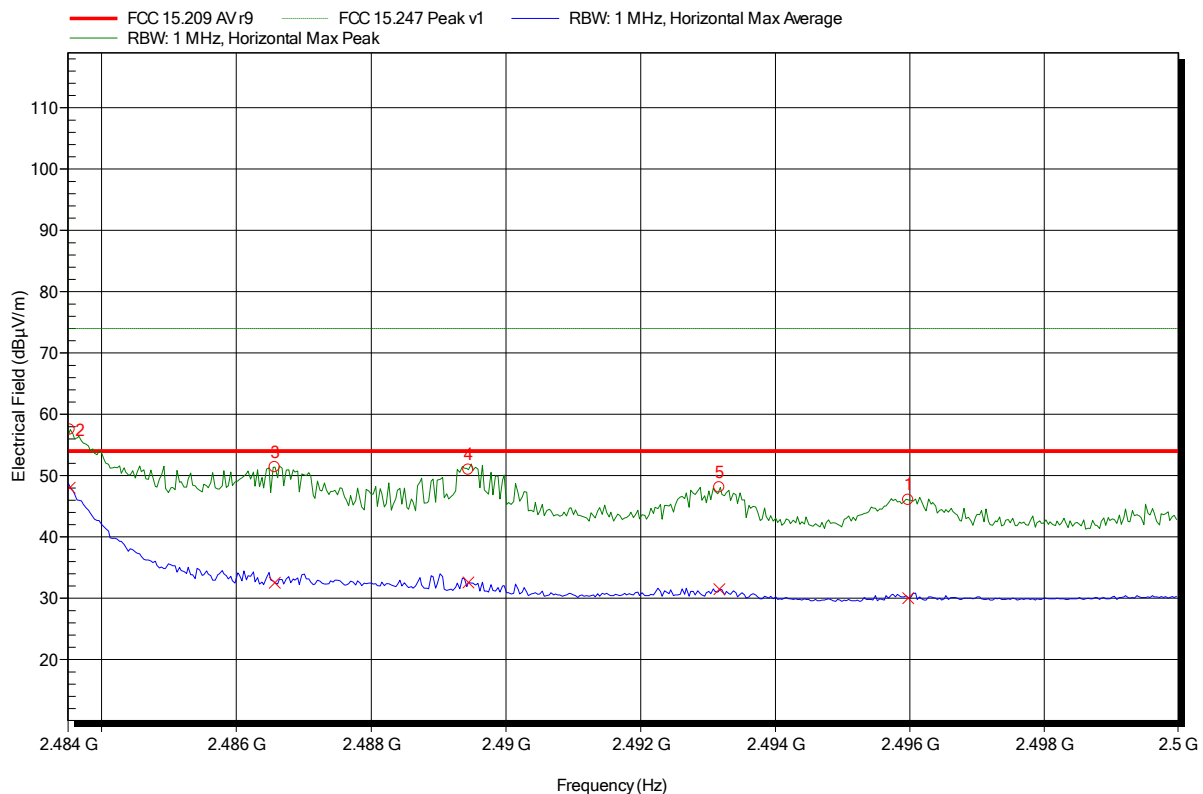


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna: Rohde & Schwarz HL 025, Horizontal
Measurement distance: 3 m
Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
Test Date: 2015-04-28
Note: EUT horizontal; higher bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	57.52 dBµV/m	74 dBµV/m	-16.48 dB	Pass
2.487 GHz	51.36 dBµV/m	74 dBµV/m	-22.64 dB	Pass
2.489 GHz	50.97 dBµV/m	74 dBµV/m	-23.03 dB	Pass
2.493 GHz	48.07 dBµV/m	74 dBµV/m	-25.93 dB	Pass
2.496 GHz	46.05 dBµV/m	74 dBµV/m	-27.95 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.484 GHz	48.02 dBµV/m	54 dBµV/m	-5.98 dB	Pass
2.487 GHz	32.55 dBµV/m	54 dBµV/m	-21.45 dB	Pass
2.489 GHz	32.56 dBµV/m	54 dBµV/m	-21.44 dB	Pass
2.493 GHz	31.49 dBµV/m	54 dBµV/m	-22.51 dB	Pass
2.496 GHz	30.03 dBµV/m	54 dBµV/m	-23.97 dB	Pass

Test Report No.: G0M-1503-4620-TFC247BT-V01

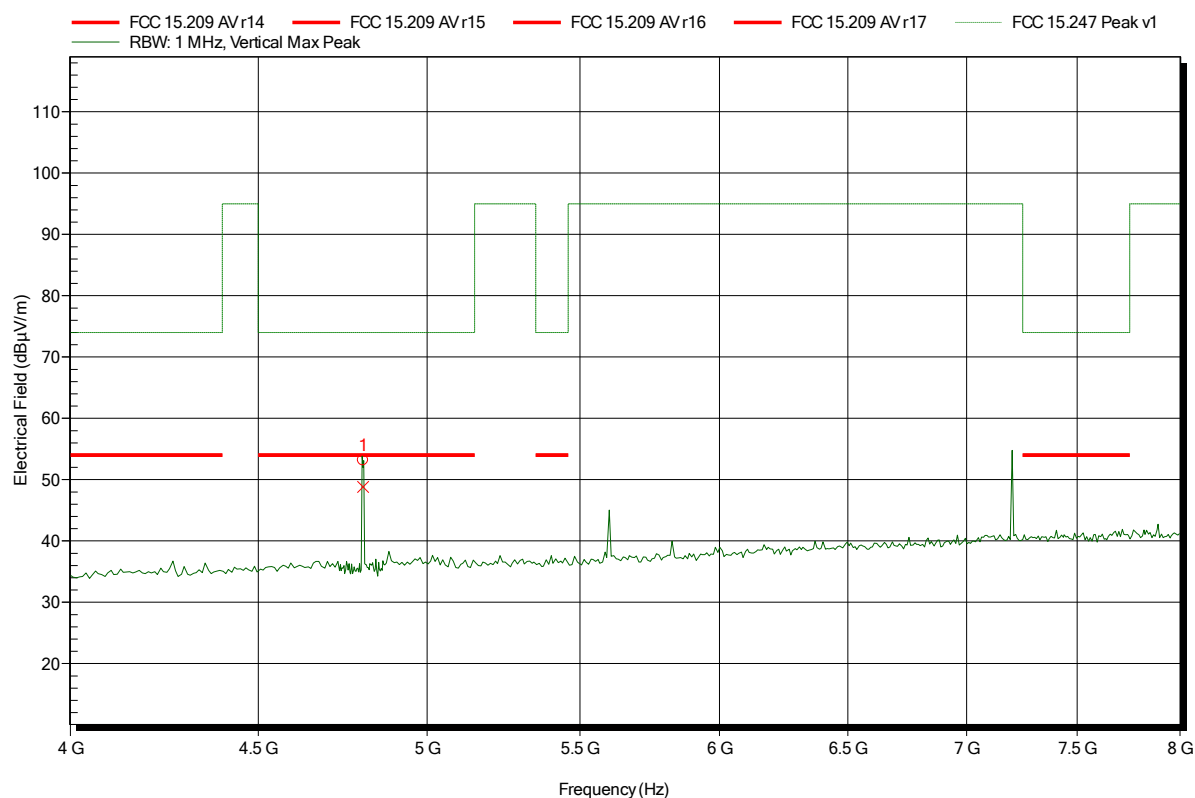
Eurofins Product Service GmbH
Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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Frequency 4.804 GHz	Peak 53.16 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -20.84 dB	Status Pass
Frequency 4.804 GHz	Average 48.82 dBµV/m	Average Limit 54 dBµV/m	Average Difference -5.18 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247BT-V01

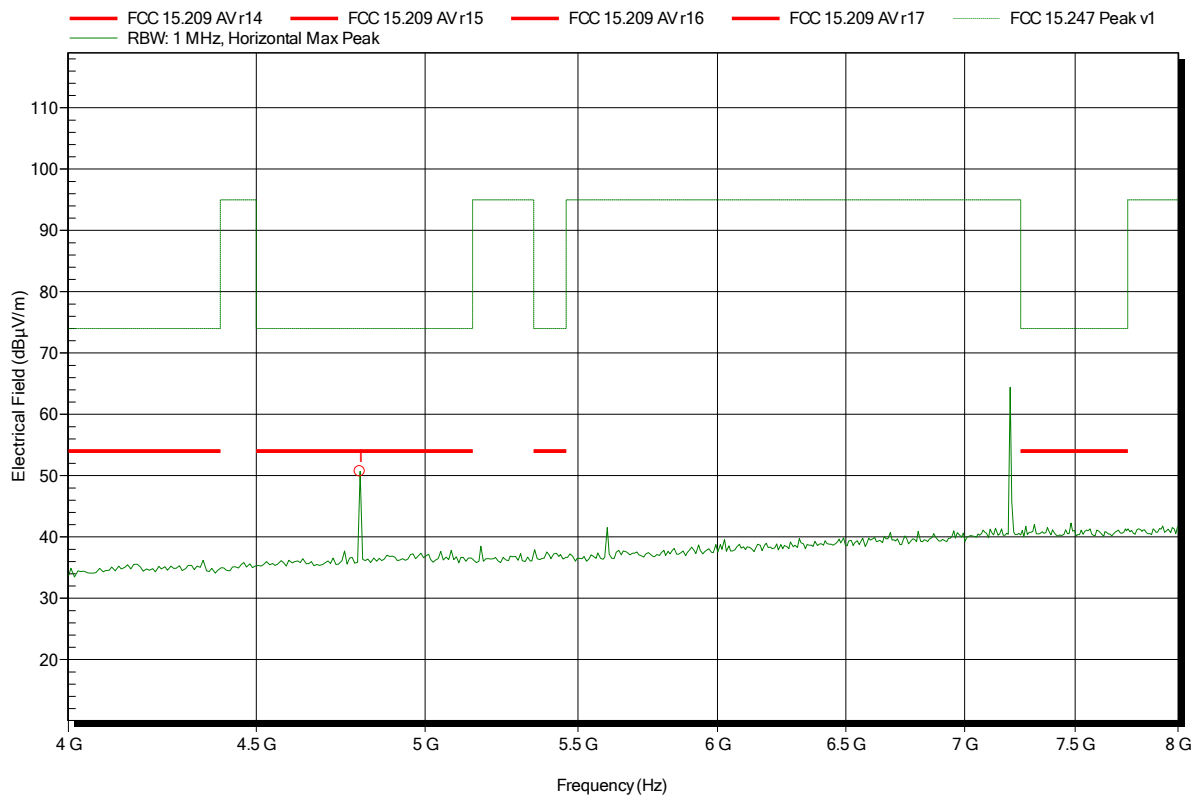
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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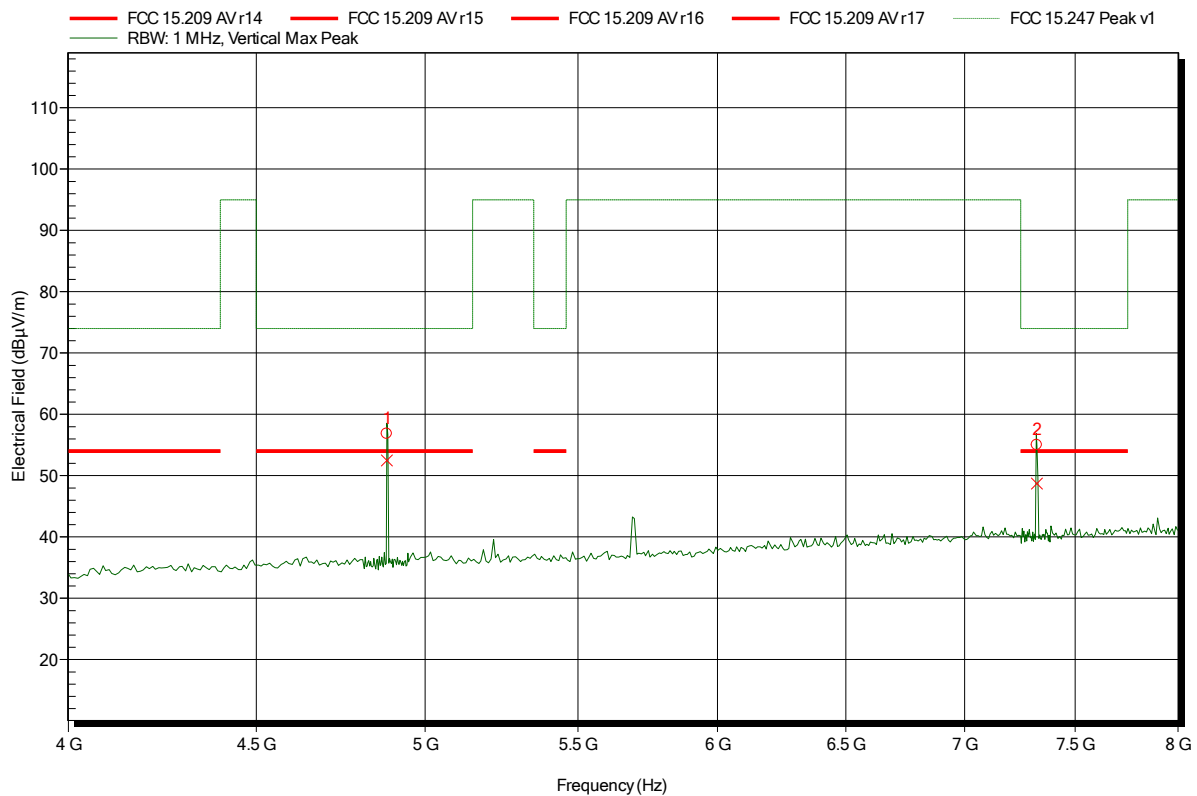
Frequency	Peak	Peak Limit	Peak Difference	Status
4.8 GHz	50.7 dBμV/m	74 dBμV/m	-23.3 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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Frequency	Peak	Peak Limit	Peak Difference	Status
4.882 GHz	56.85 dBμV/m	74 dBμV/m	-17.15 dB	Pass
7.323 GHz	54.97 dBμV/m	74 dBμV/m	-19.03 dB	Pass

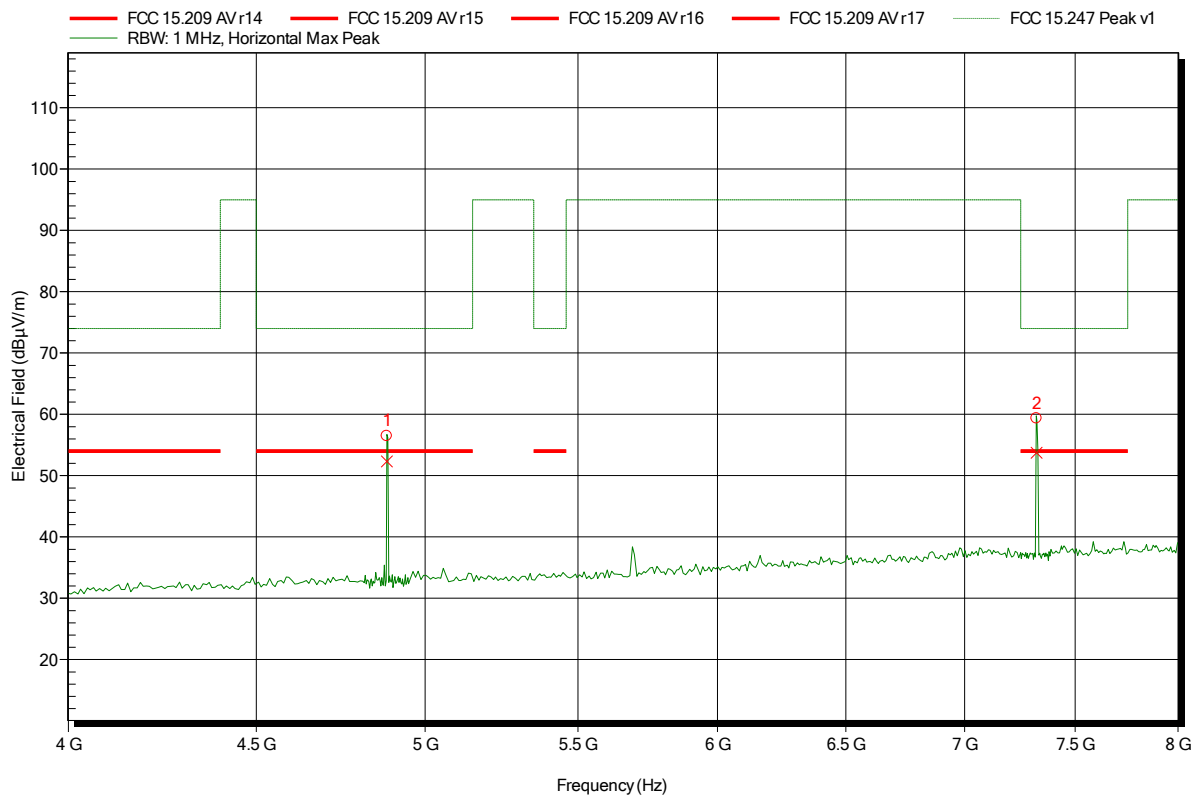
Frequency	Average	Average Limit	Average Difference	Average Status
4.882 GHz	52.49 dBμV/m	54 dBμV/m	-1.51 dB	Pass
7.323 GHz	48.71 dBμV/m	54 dBμV/m	-5.29 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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Frequency	Peak	Peak Limit	Peak Difference	Status
4.882 GHz	56.48 dBμV/m	74 dBμV/m	-17.52 dB	Pass
7.322 GHz	59.34 dBμV/m	74 dBμV/m	-14.66 dB	Pass

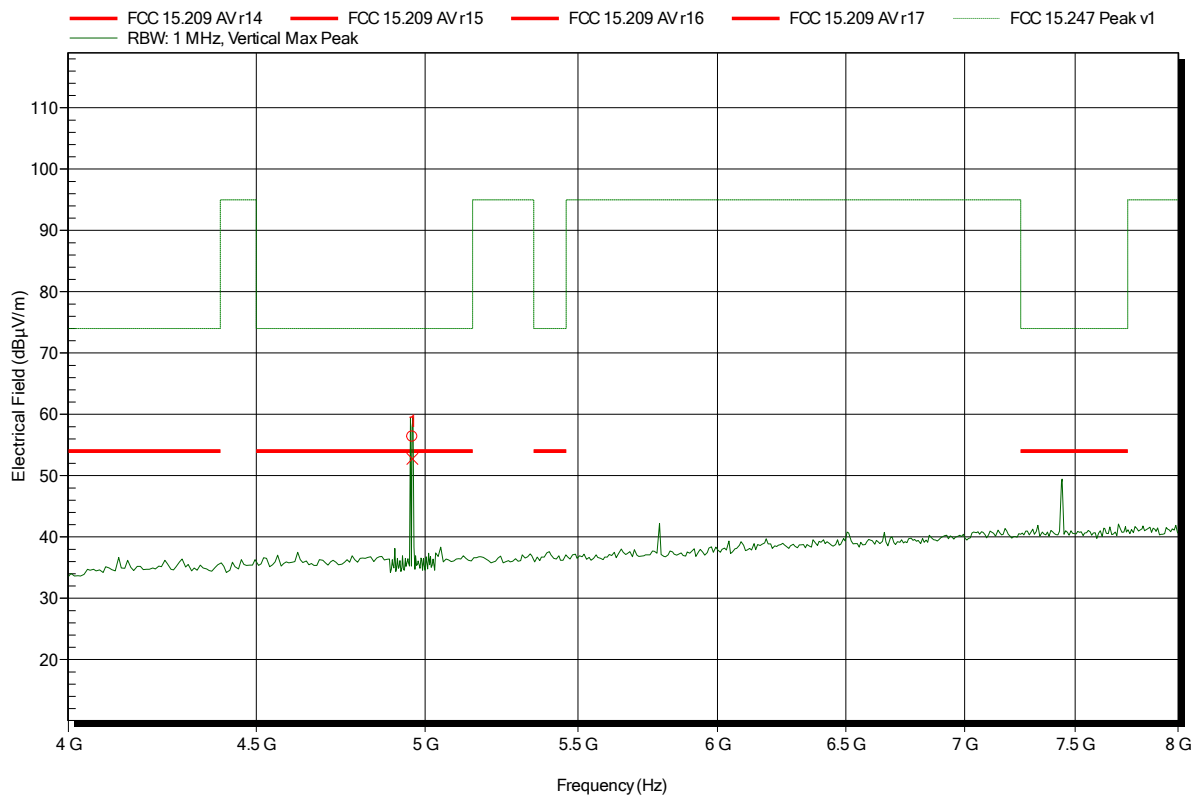
Frequency	Average	Average Limit	Average Difference	Average Status
4.882 GHz	52.3 dBμV/m	54 dBμV/m	-1.7 dB	Pass
7.322 GHz	53.73 dBμV/m	54 dBμV/m	-0.27 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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Frequency 4.96 GHz	Peak 56.38 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -17.62 dB	Status Pass
Frequency 4.96 GHz	Average 52.75 dBµV/m	Average Limit 54 dBµV/m	Average Difference -1.25 dB	Average Status Pass

Test Report No.: GOM-1503-4620-TFC247BT-V01

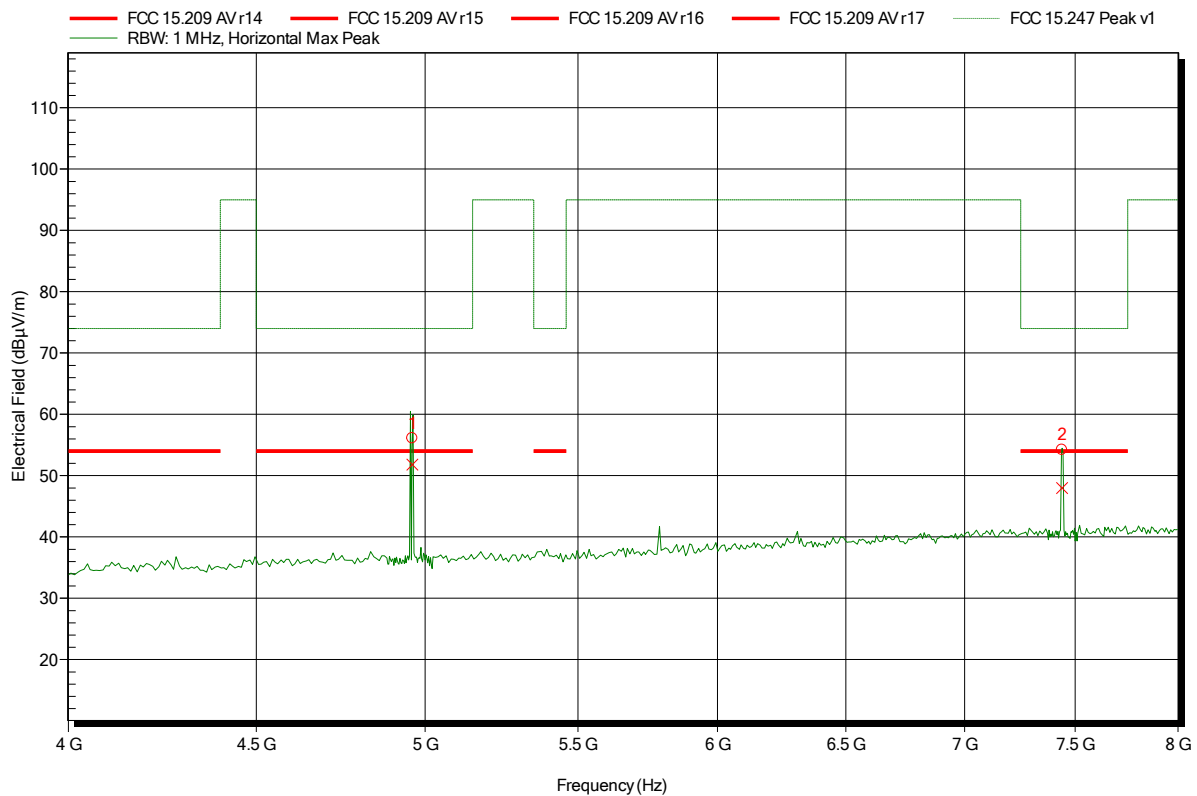
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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Frequency	Peak	Peak Limit	Peak Difference	Status
4.96 GHz	56.11 dBµV/m	74 dBµV/m	-17.89 dB	Pass
7.44 GHz	54.21 dBµV/m	74 dBµV/m	-19.79 dB	Pass

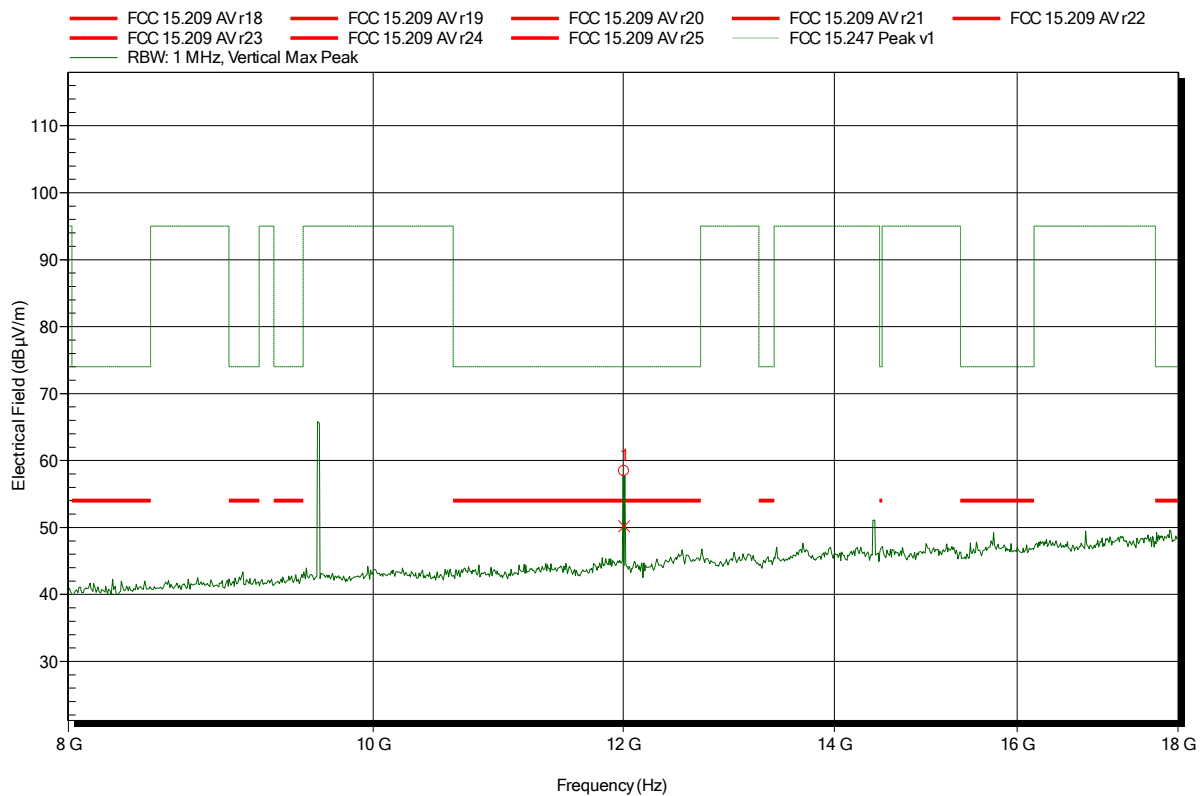
Frequency	Average	Average Limit	Average Difference	Average Status
4.96 GHz	51.79 dBµV/m	54 dBµV/m	-2.21 dB	Pass
7.44 GHz	47.97 dBµV/m	54 dBµV/m	-6.03 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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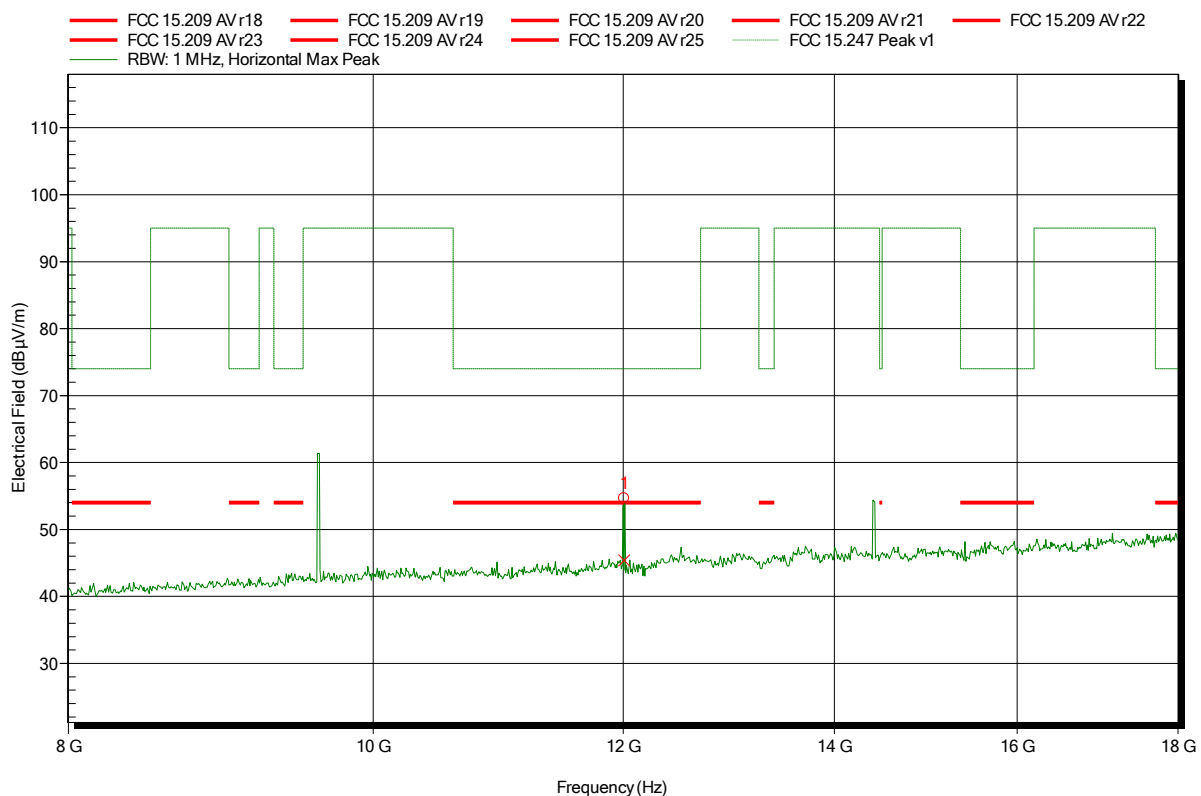
Frequency 12.011 GHz	Peak 58.41 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -15.59 dB	Status Pass
Frequency 12.011 GHz	Average 50.17 dBµV/m	Average Limit 54 dBµV/m	Average Difference -3.83 dB	Average Status Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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Frequency 12.009 GHz	Peak 54.66 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -19.34 dB	Status Pass
Frequency 12.009 GHz	Average 45.41 dBµV/m	Average Limit 54 dBµV/m	Average Difference -8.59 dB	Average Status Pass

Test Report No.: G0M-1503-4620-TFC247BT-V01

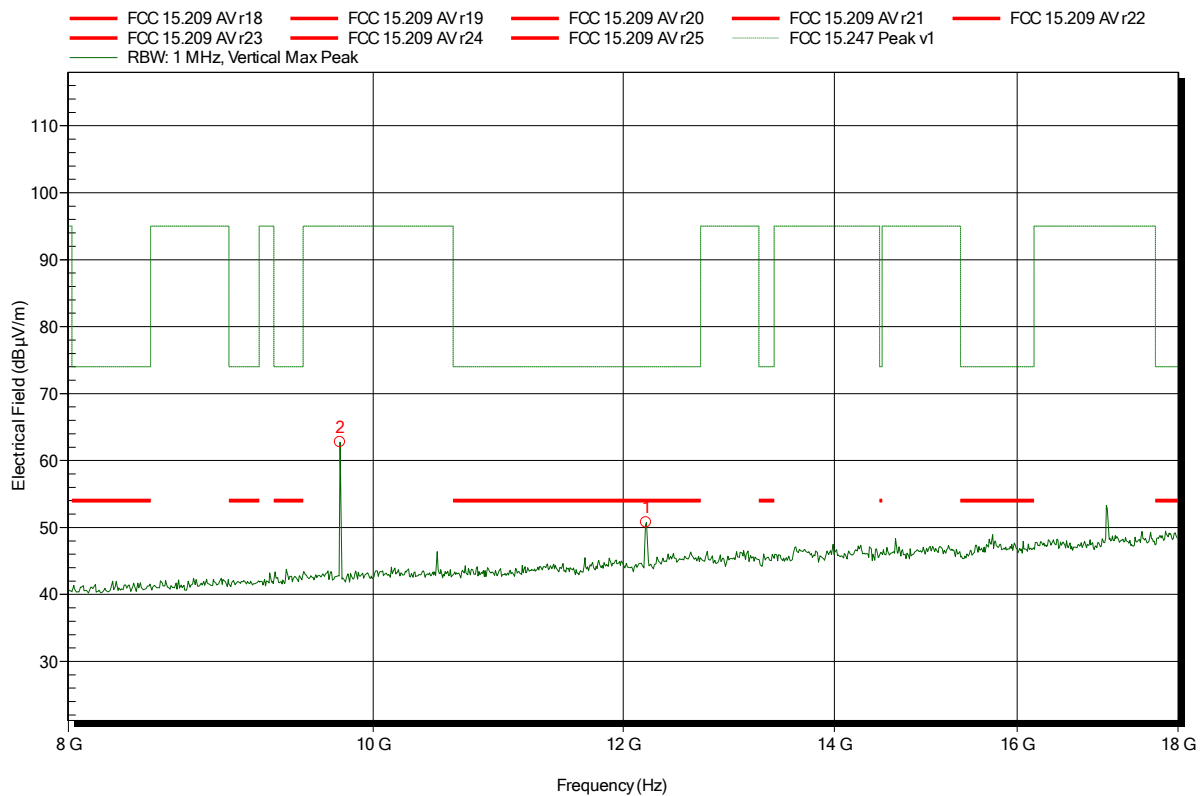
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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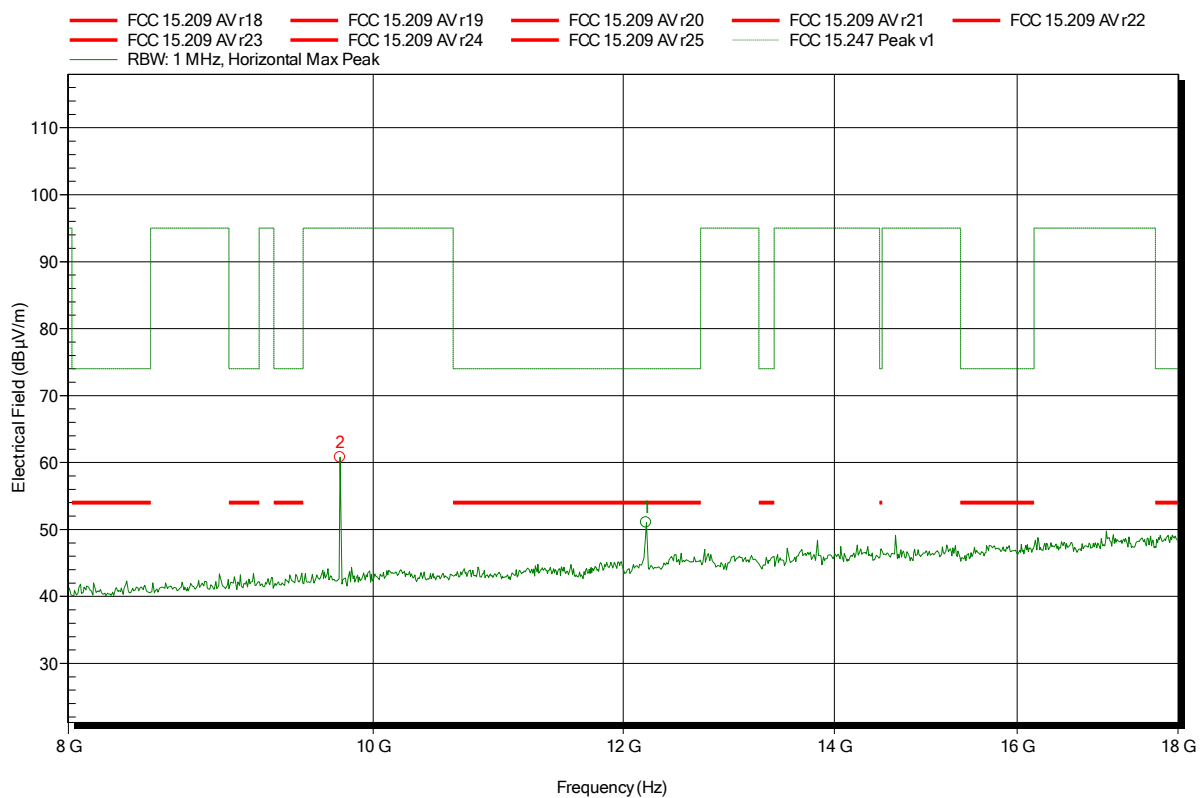
Frequency	Peak	Peak Limit	Peak Difference	Status
9.76 GHz	62.74 dBµV/m	95 dBµV/m	-32.26 dB	Pass
12.204 GHz	50.76 dBµV/m	74 dBµV/m	-23.24 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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Frequency	Peak	Peak Limit	Peak Difference	Status
9.76 GHz	60.76 dBµV/m	95 dBµV/m	-34.24 dB	Pass
12.204 GHz	51.06 dBµV/m	74 dBµV/m	-22.94 dB	Pass

Test Report No.: G0M-1503-4620-TFC247BT-V01

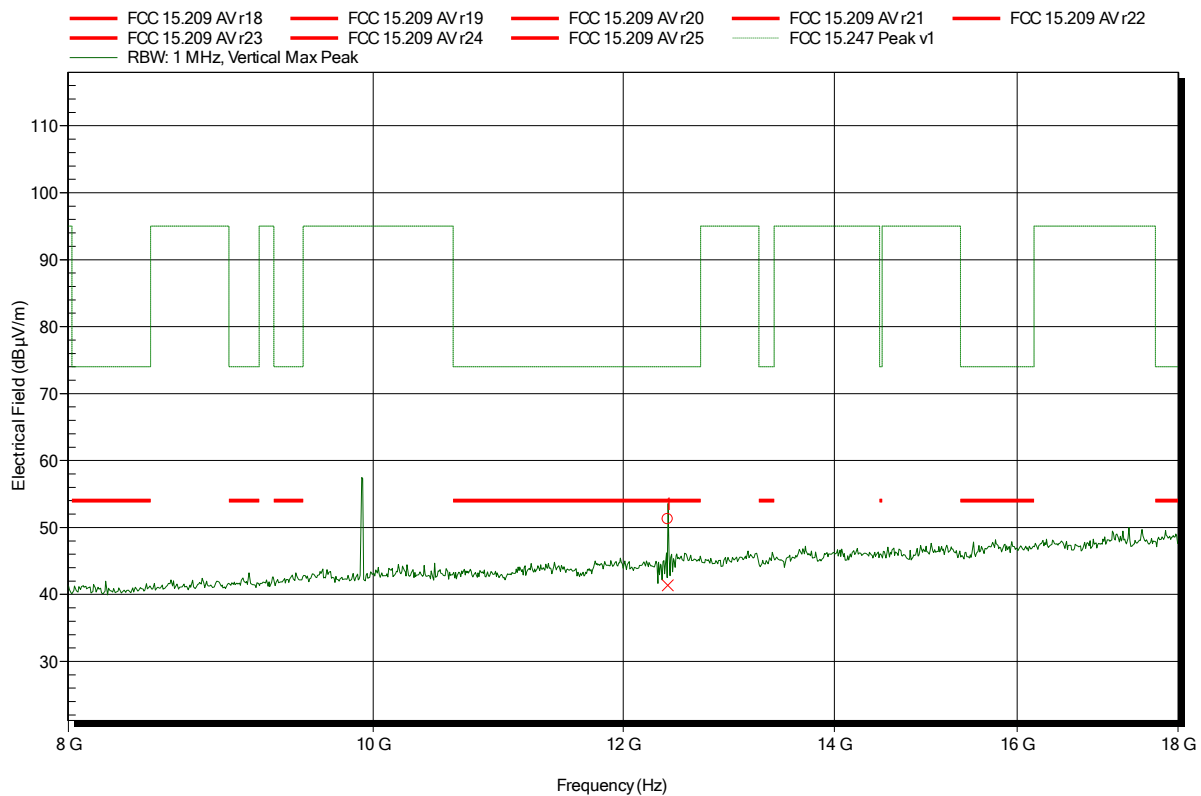
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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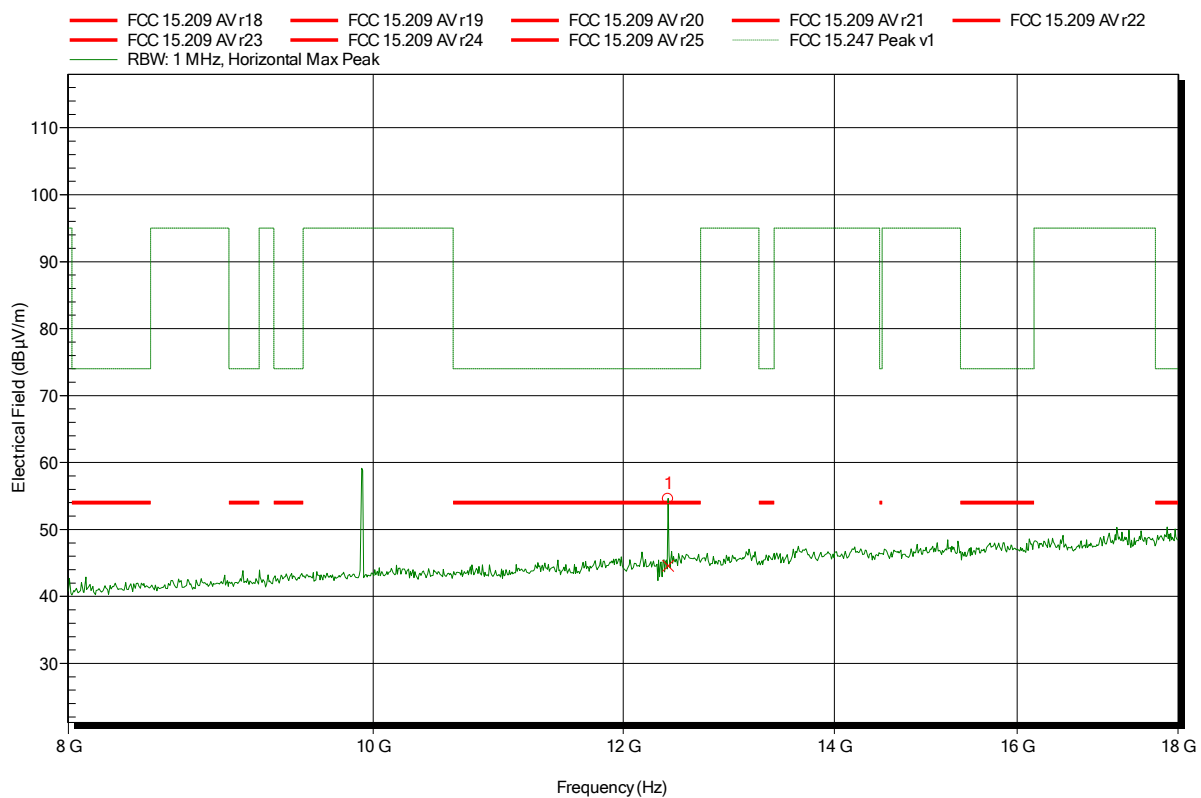
Frequency 12.399 GHz	Peak 51.22 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -22.78 dB	Status Pass
Frequency 12.399 GHz	Average 41.38 dBµV/m	Average Limit 54 dBµV/m	Average Difference -12.62 dB	Average Status Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
EUT Name: Wireless camera (Standard version)
Model: OrbitX ST
Test Site: Eurofins Product Service GmbH
Operator: Mr. Handrik
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna: Rohde & Schwarz HL 025, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
Test Date: 2015-04-28
Note: EUT horizontal

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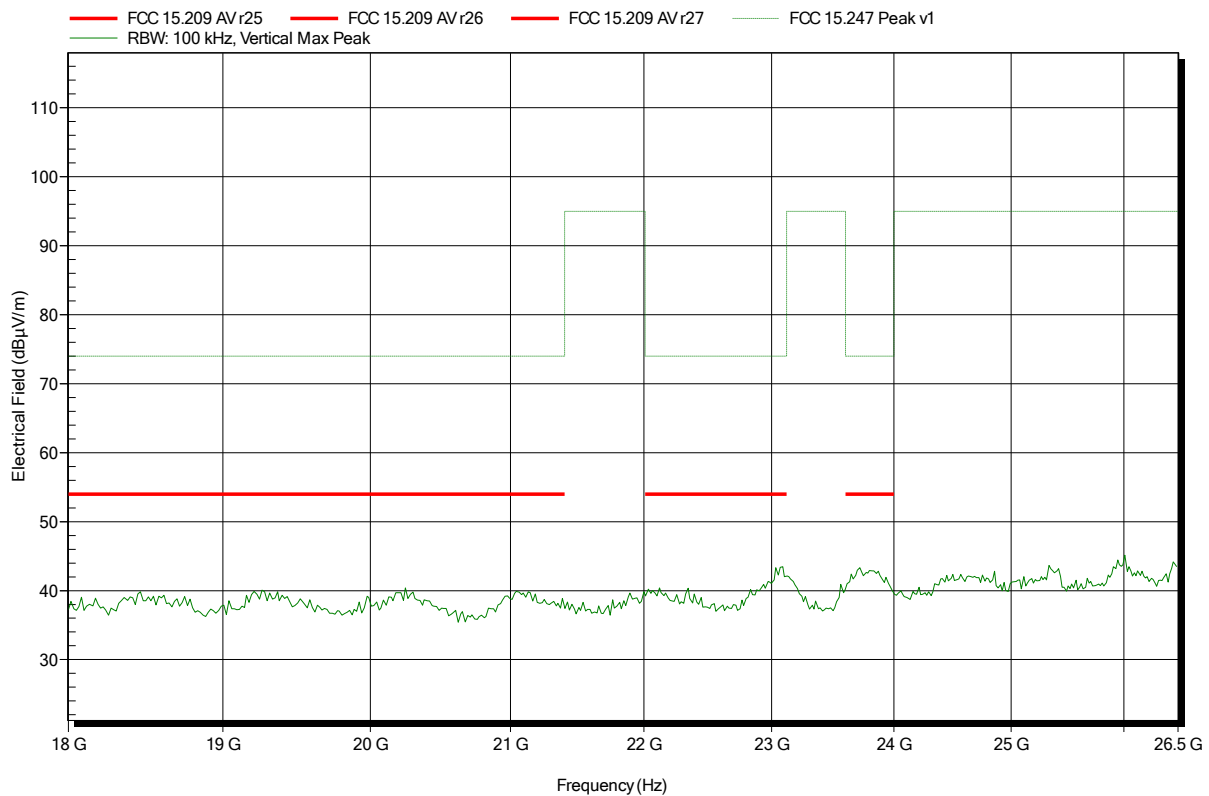
Frequency 12.401 GHz	Peak 54.55 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -19.45 dB	Status Pass
Frequency 12.401 GHz	Average 44.55 dBµV/m	Average Limit 54 dBµV/m	Average Difference -9.45 dB	Average Status Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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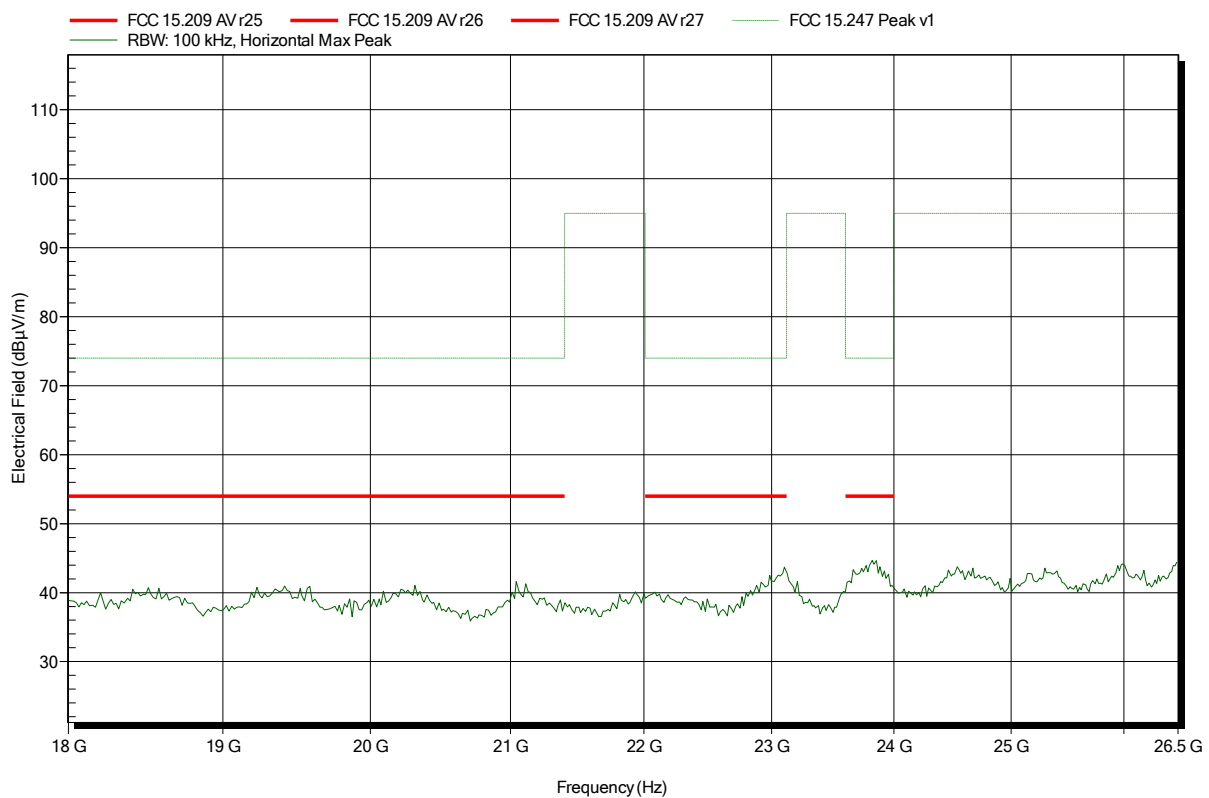


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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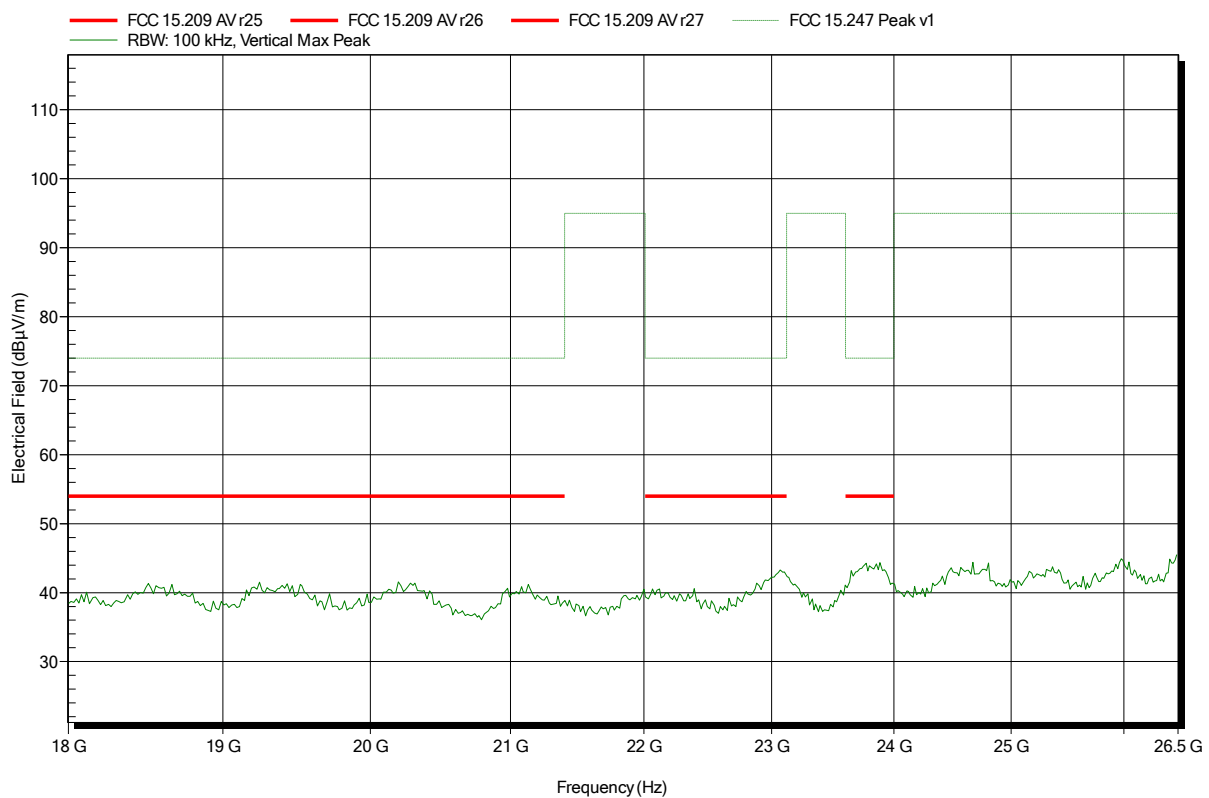


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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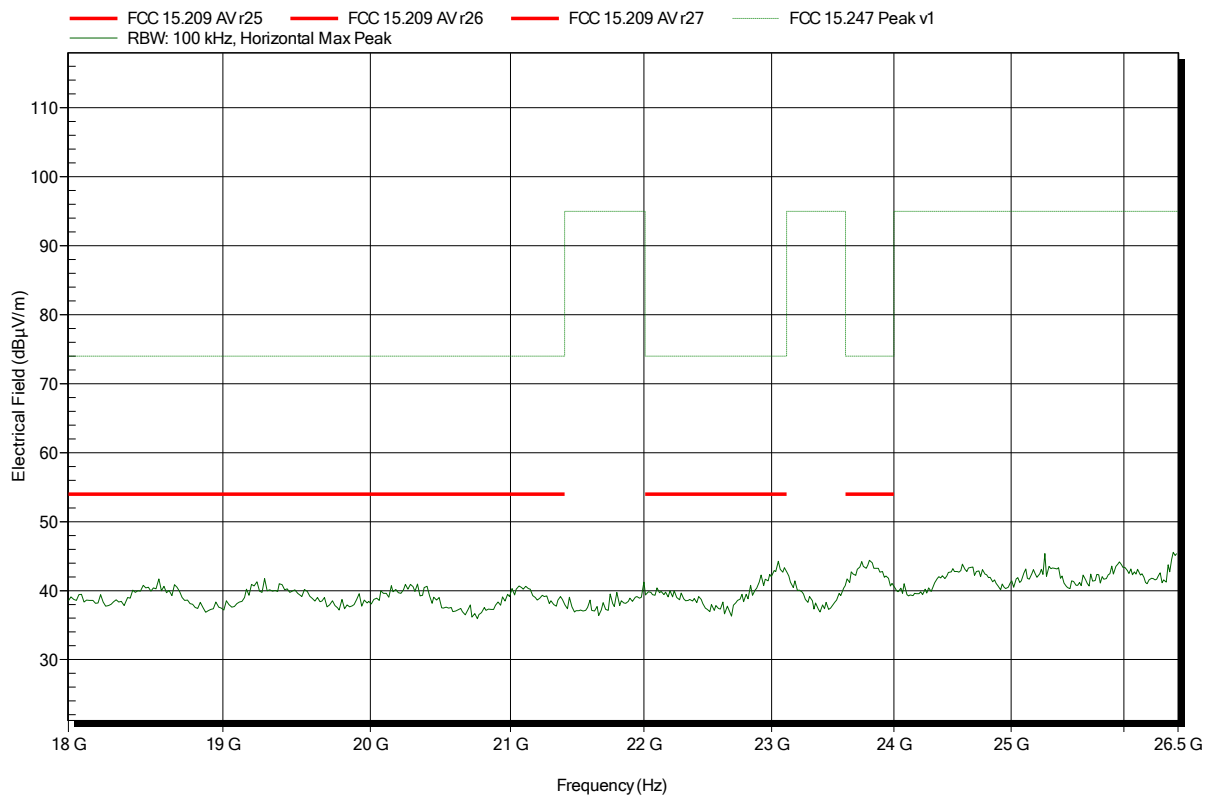


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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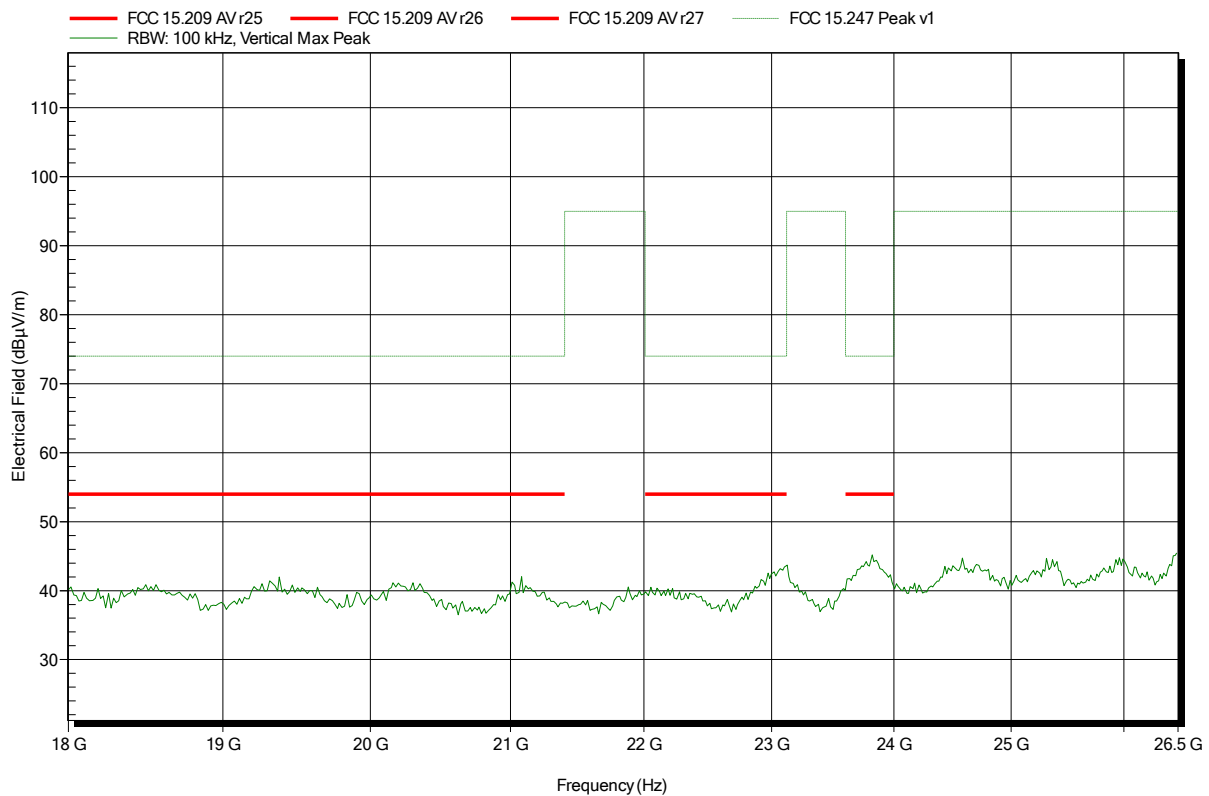


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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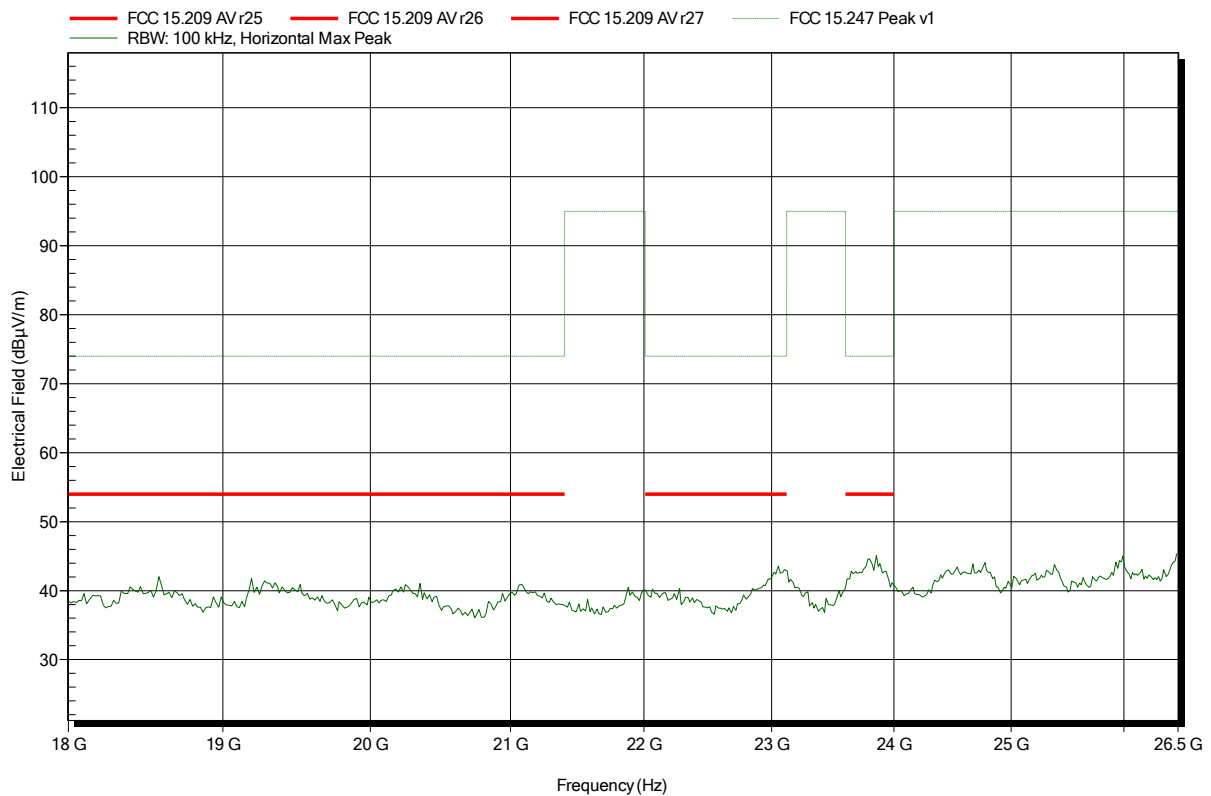


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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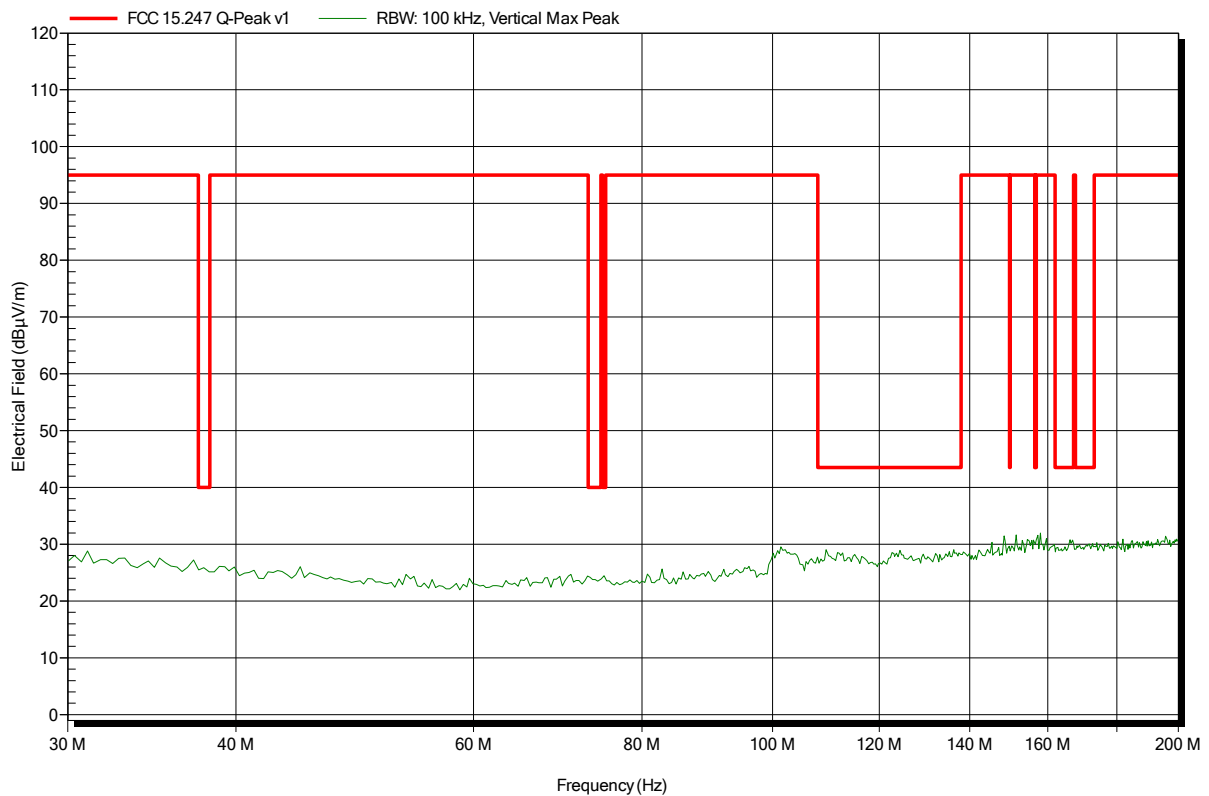


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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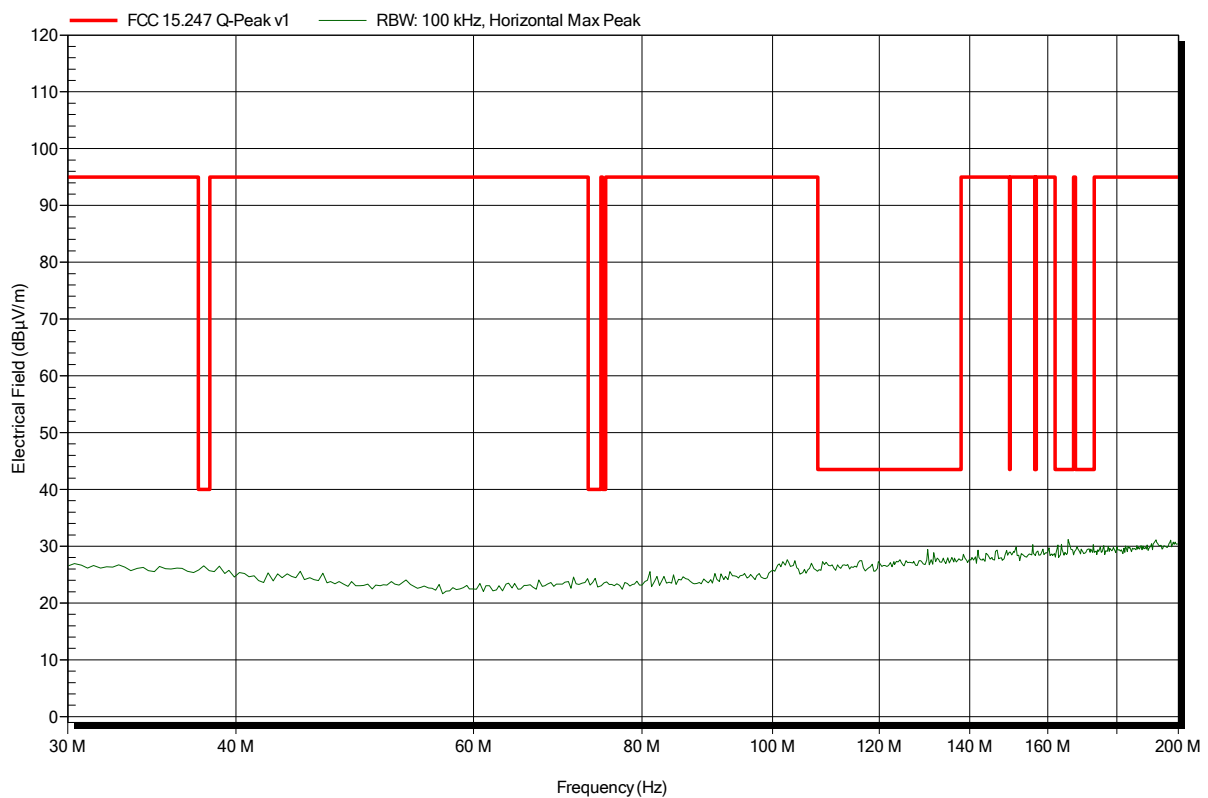


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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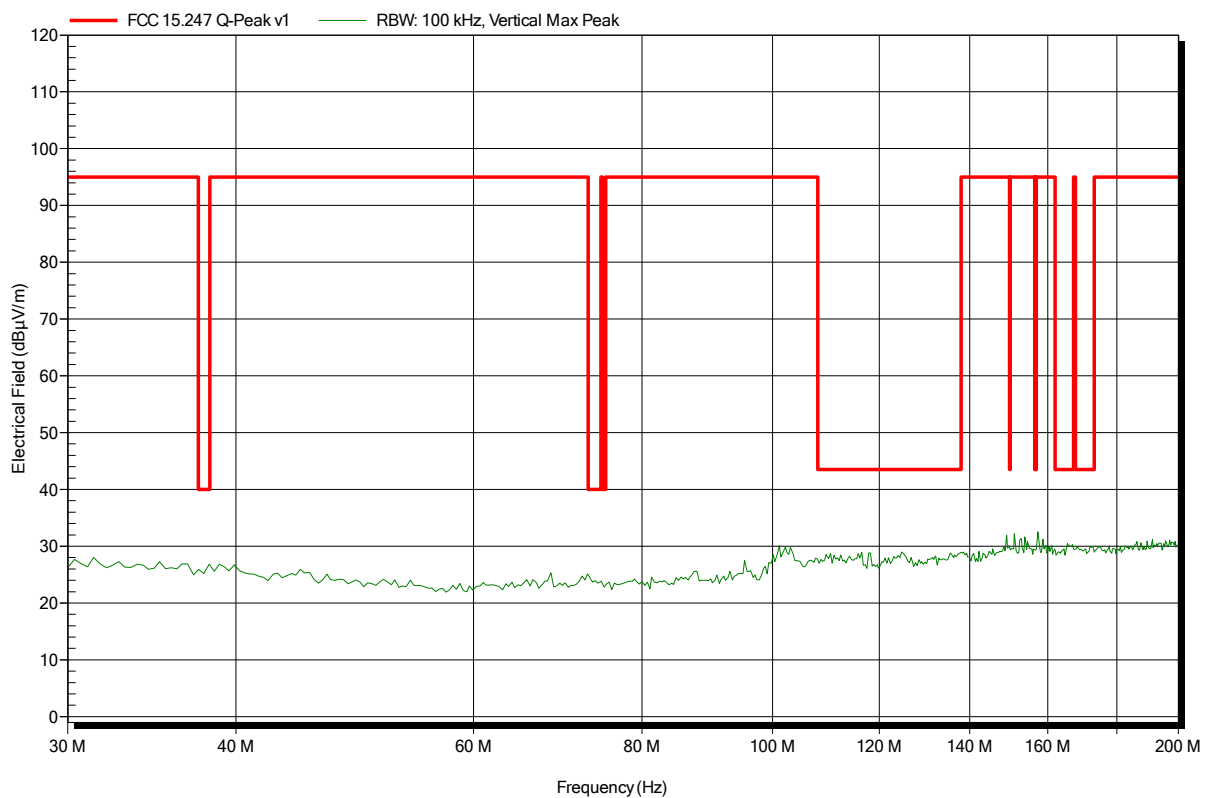


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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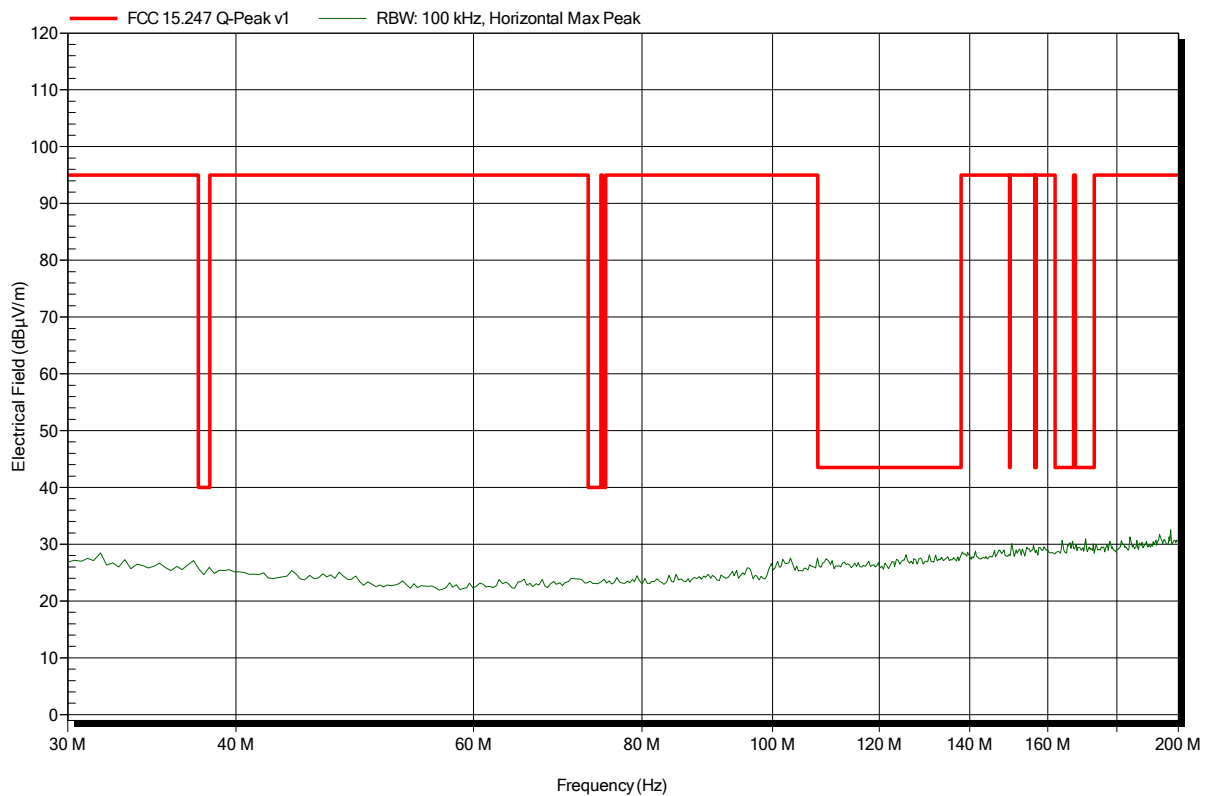


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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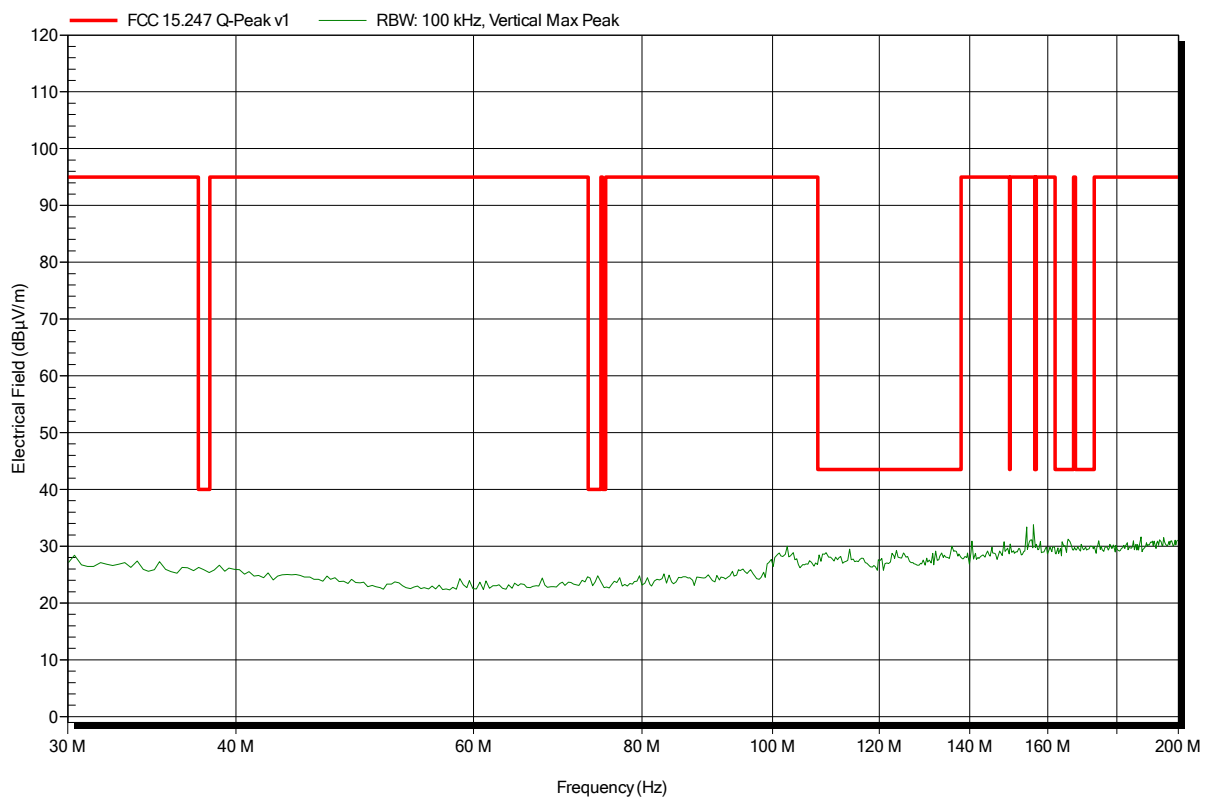


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HK 116, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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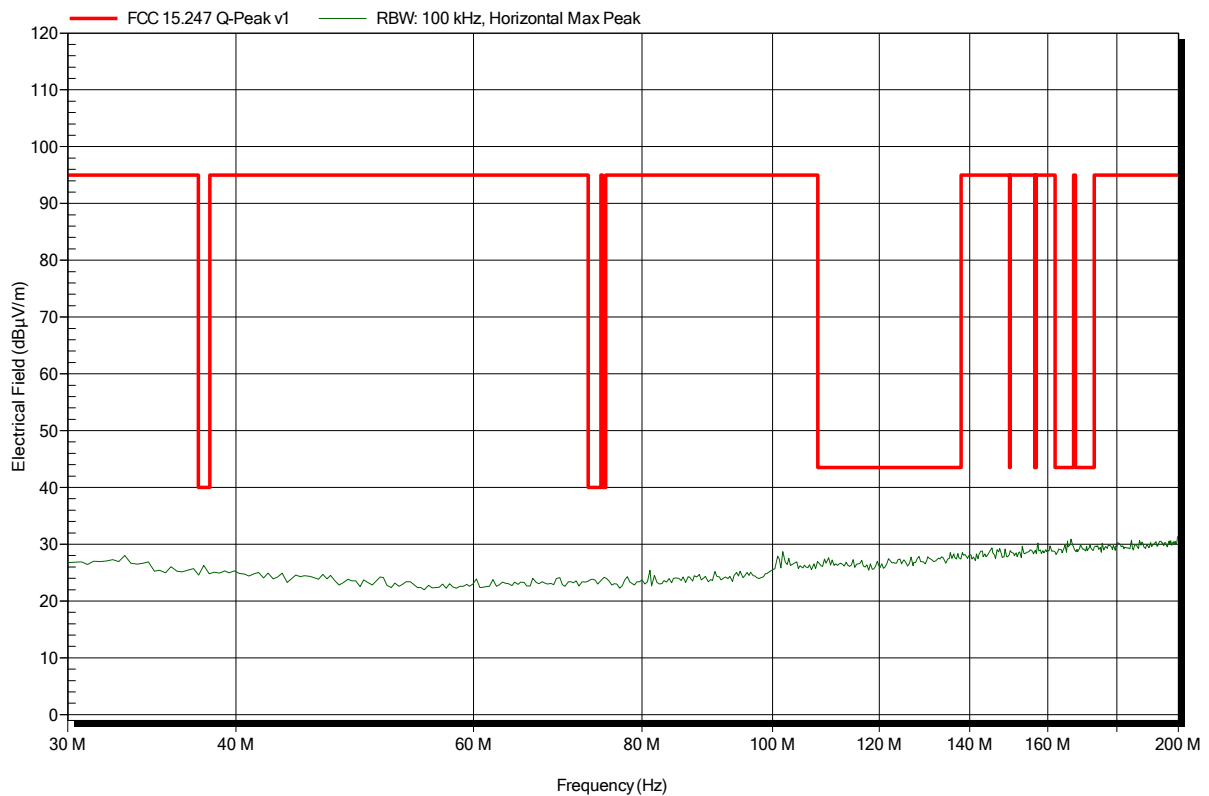


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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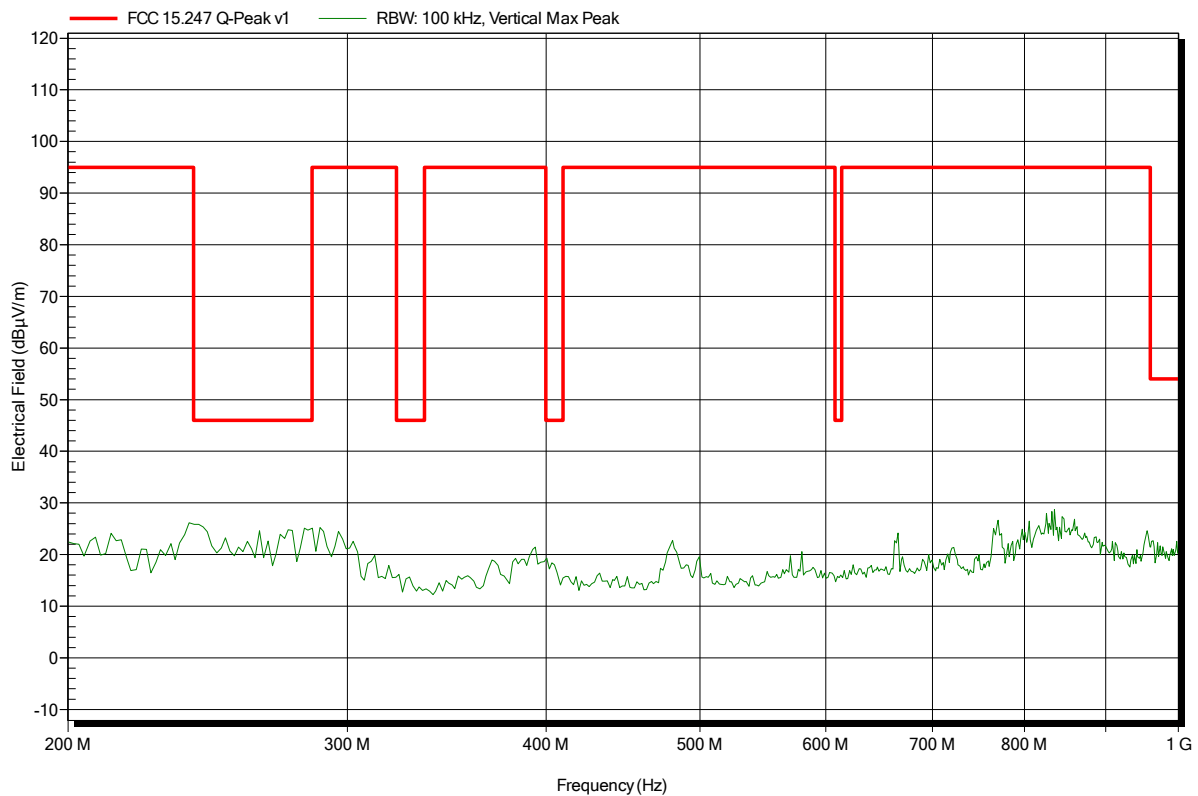


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT vertical

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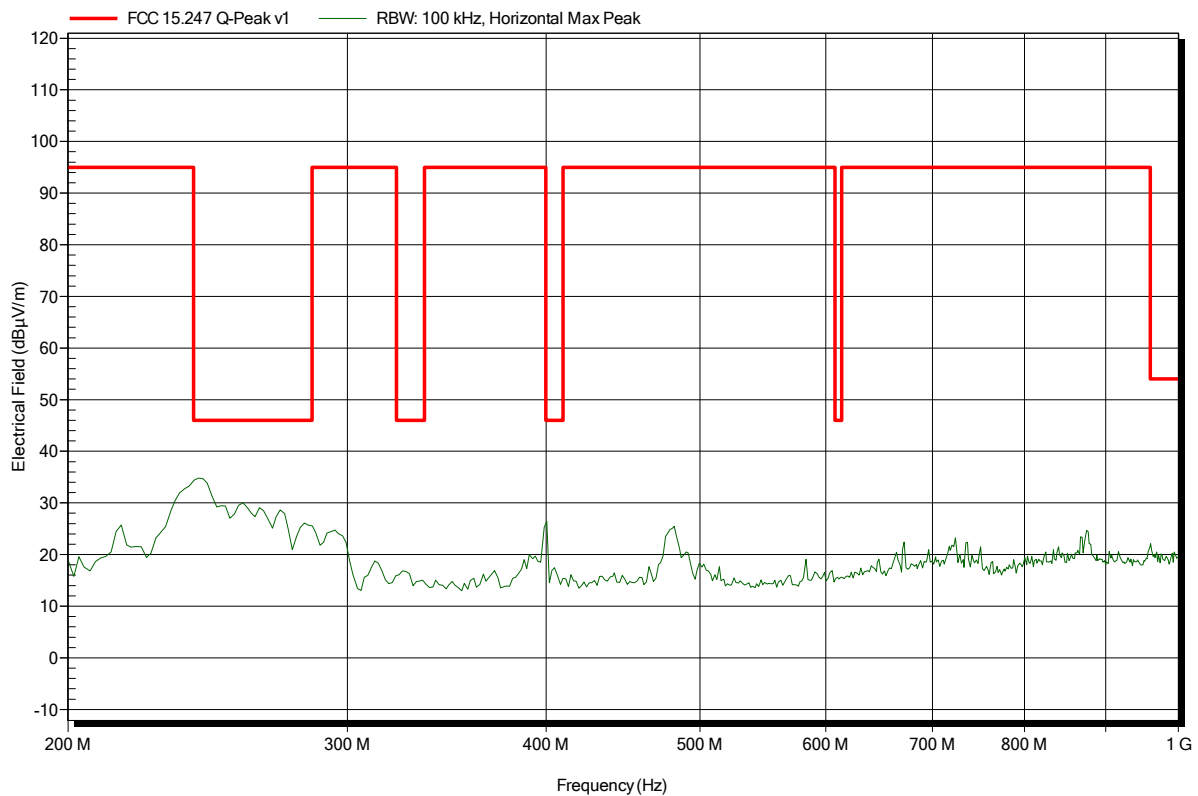


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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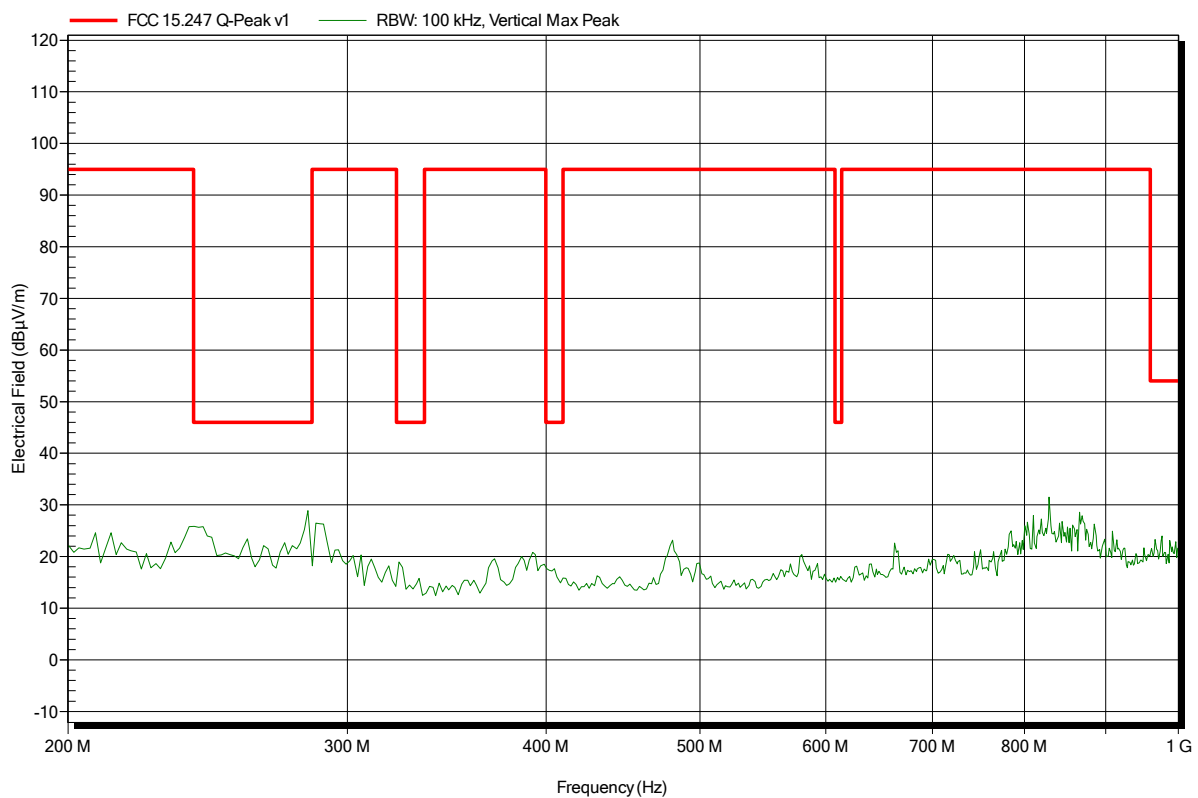


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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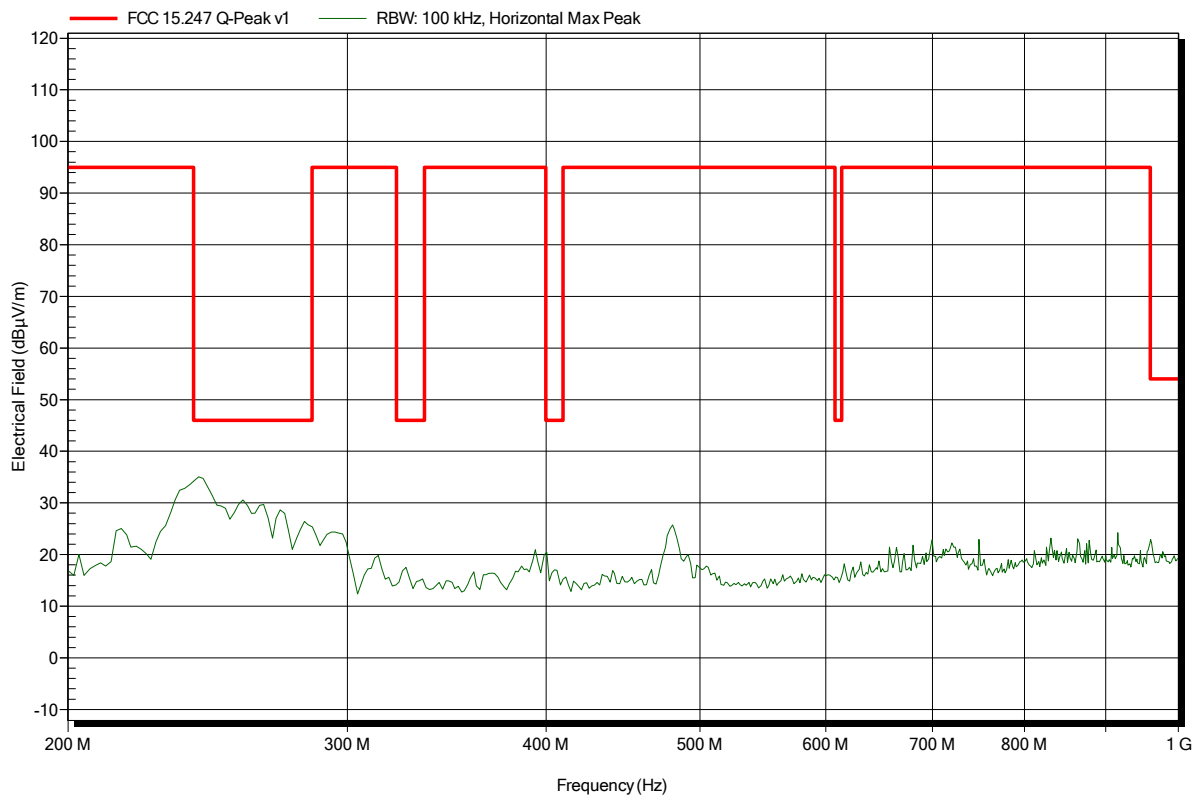


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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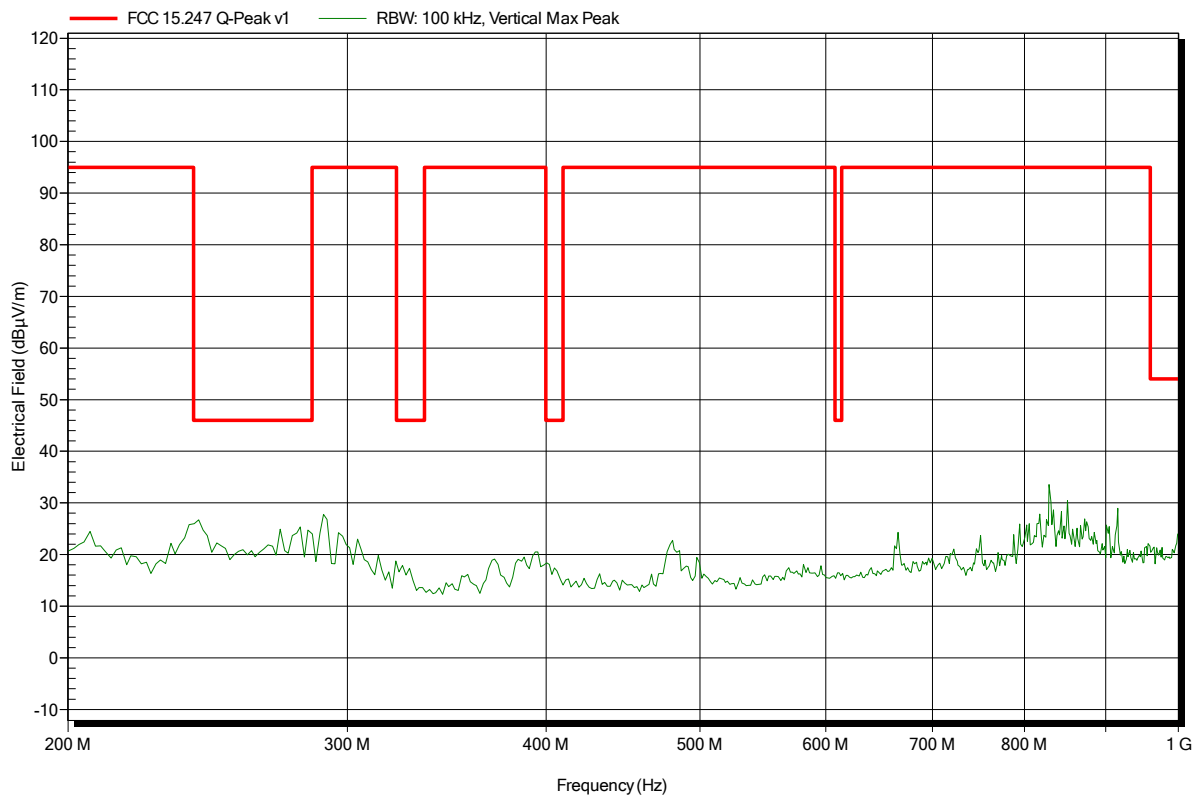


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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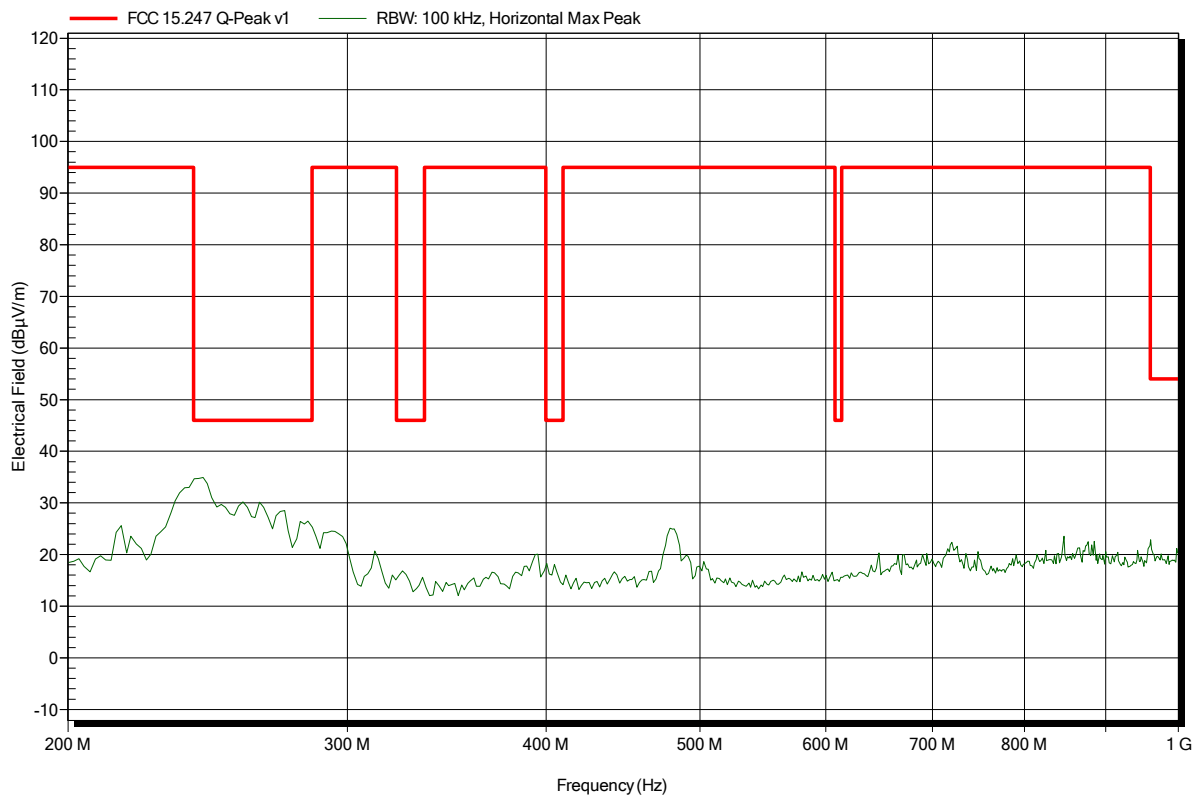


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
Test Date:	2015-04-28
Note:	EUT horizontal

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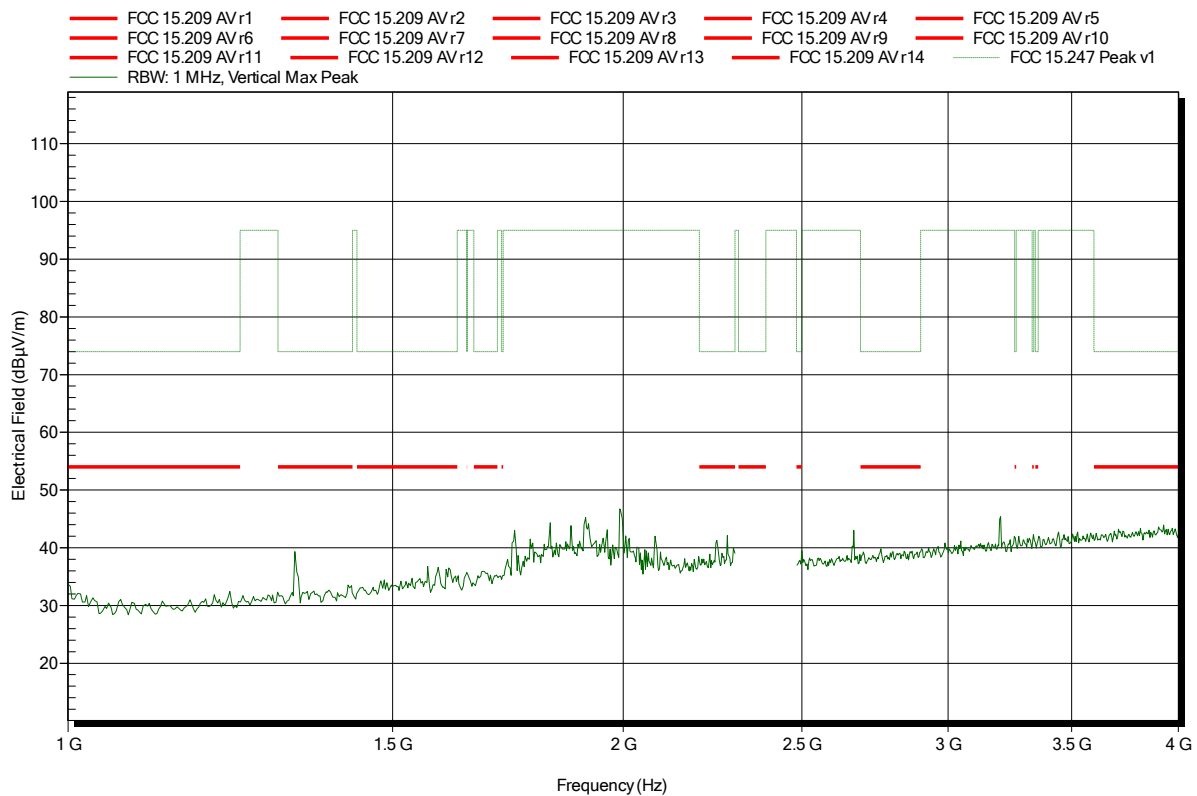


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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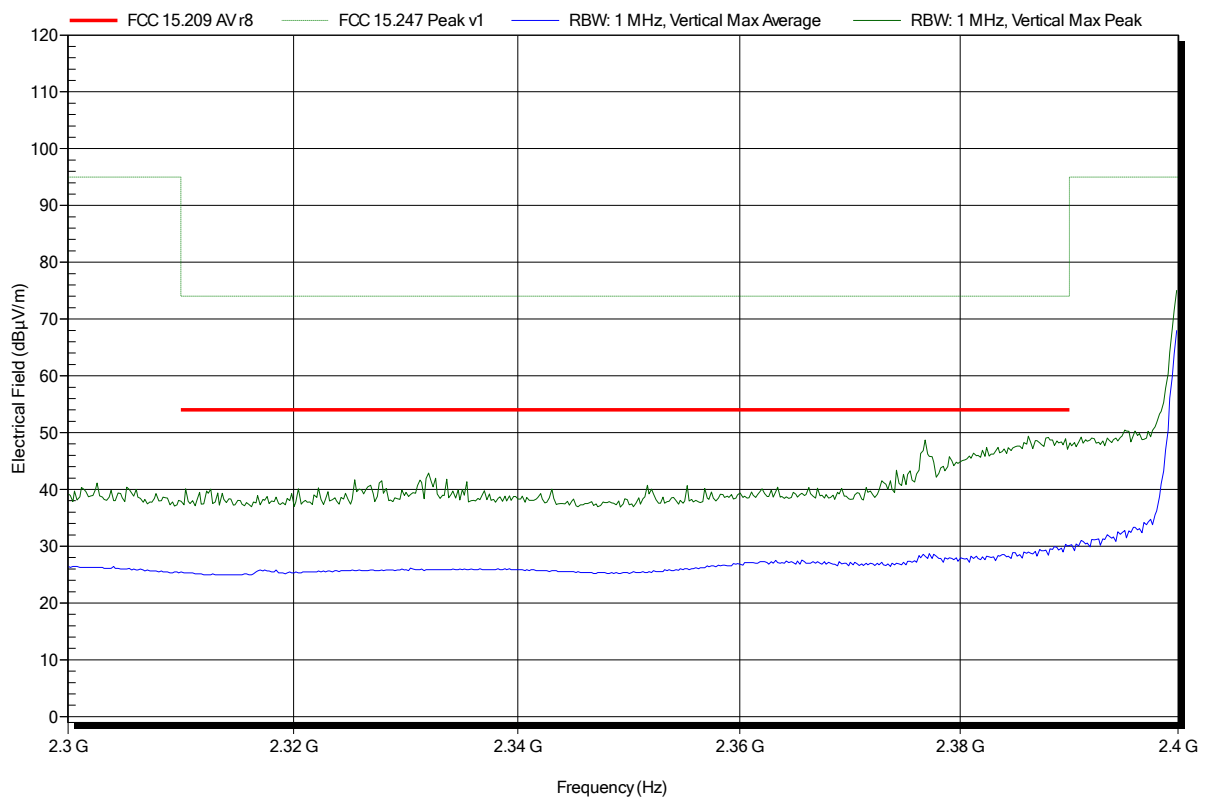


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal; lower bandedge

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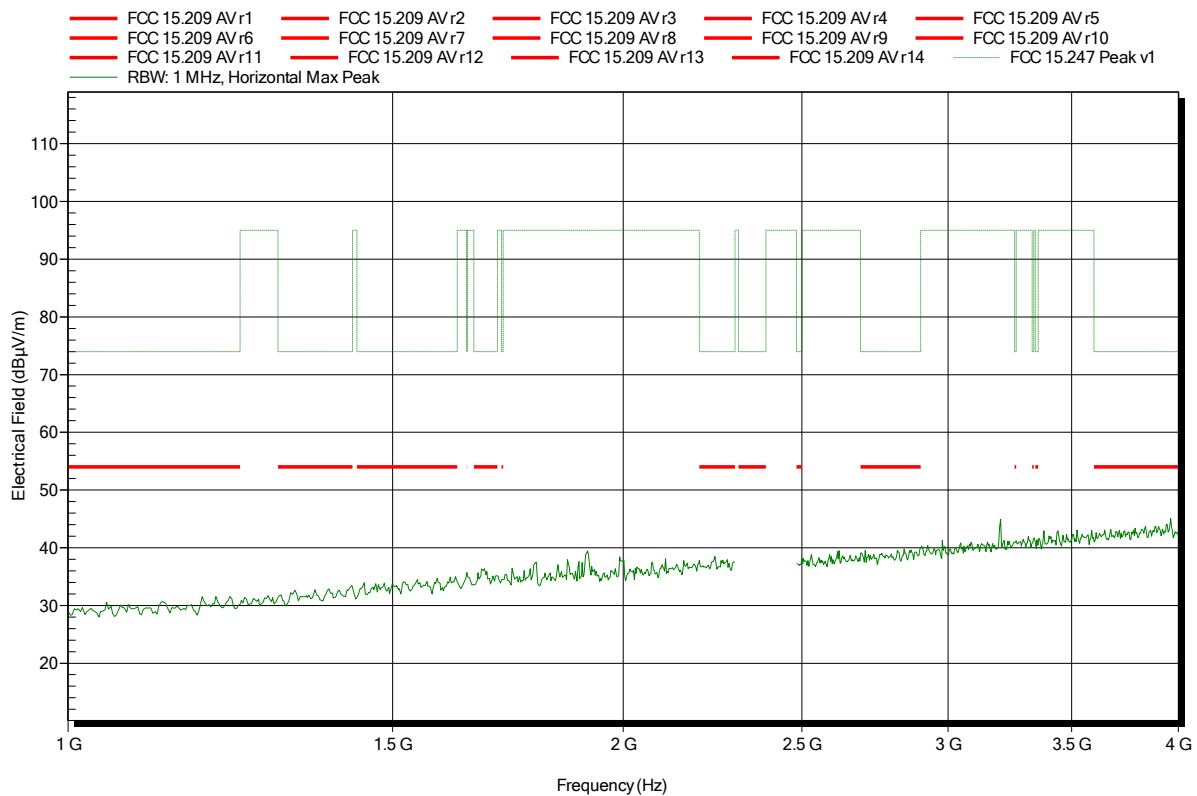


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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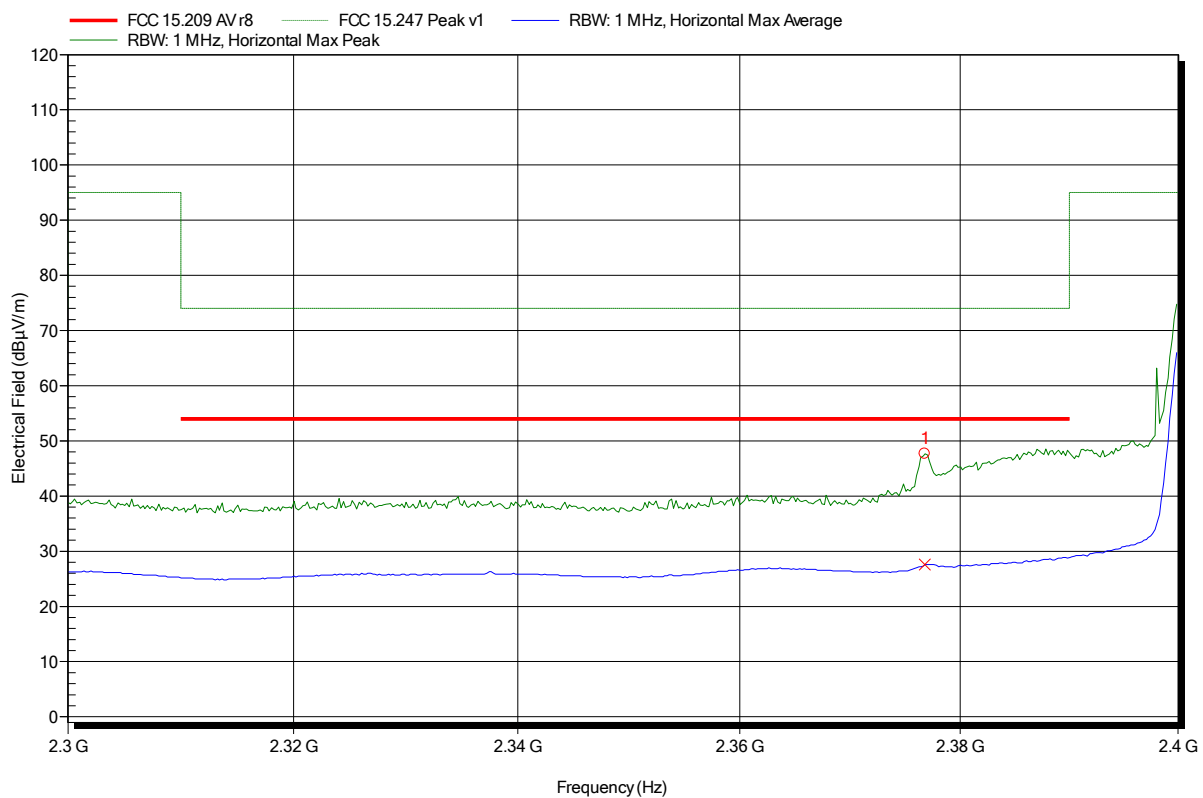


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal; lower bandedge

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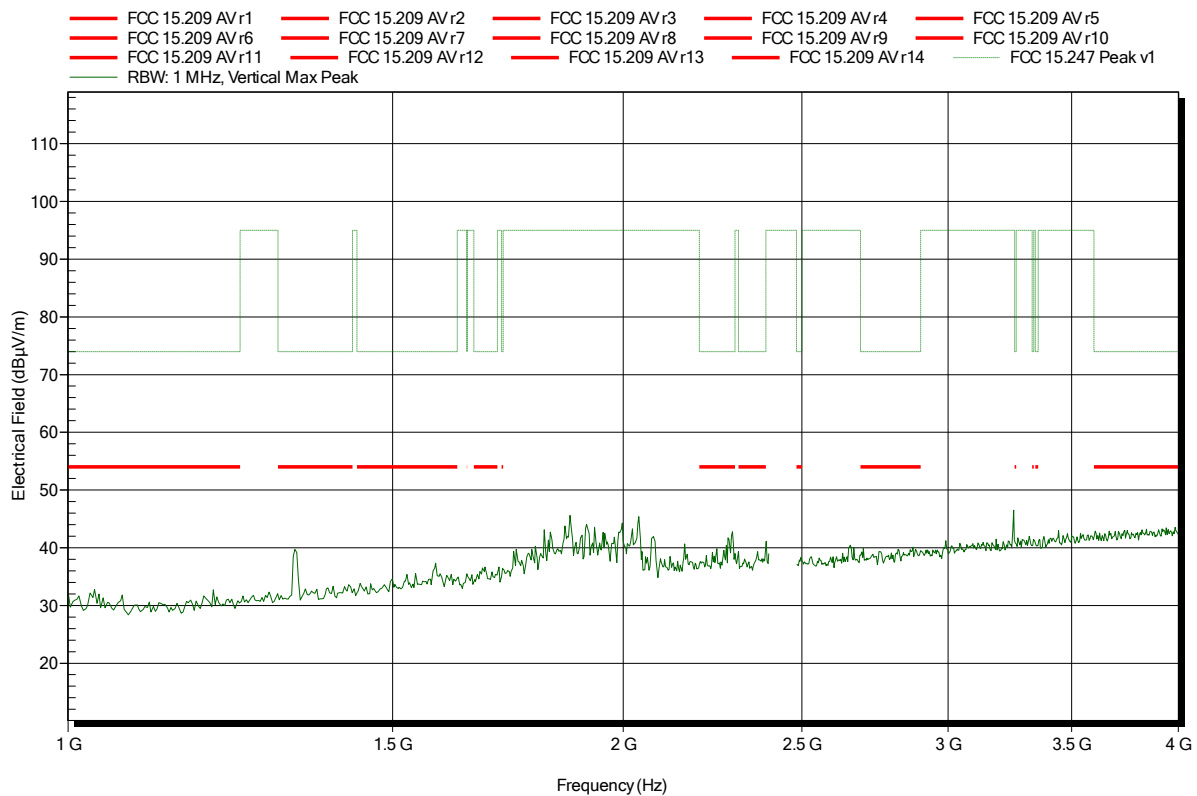
Frequency 2.377 GHz	Peak 47.68 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -26.32 dB	Peak Status Pass
Frequency 2.377 GHz	Average 27.59 dBµV/m	Average Limit 54 dBµV/m	Average Difference -26.41 dB	Average Status Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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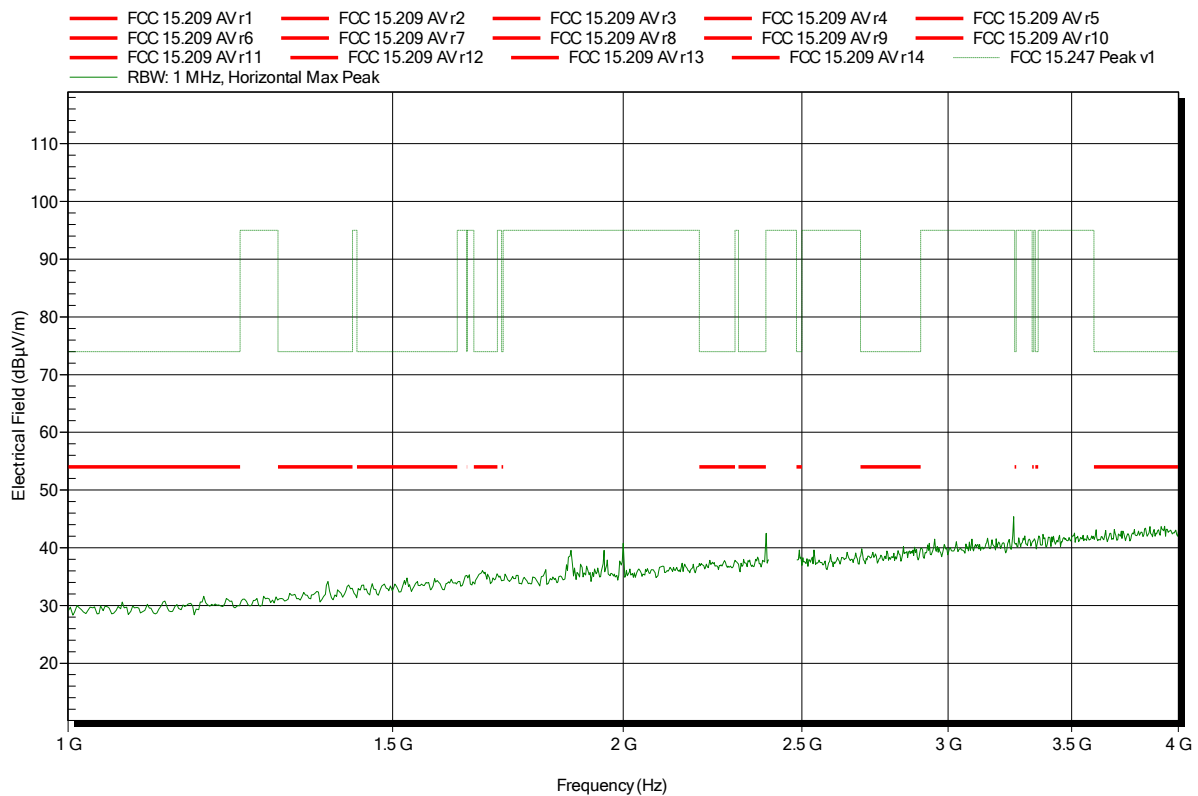


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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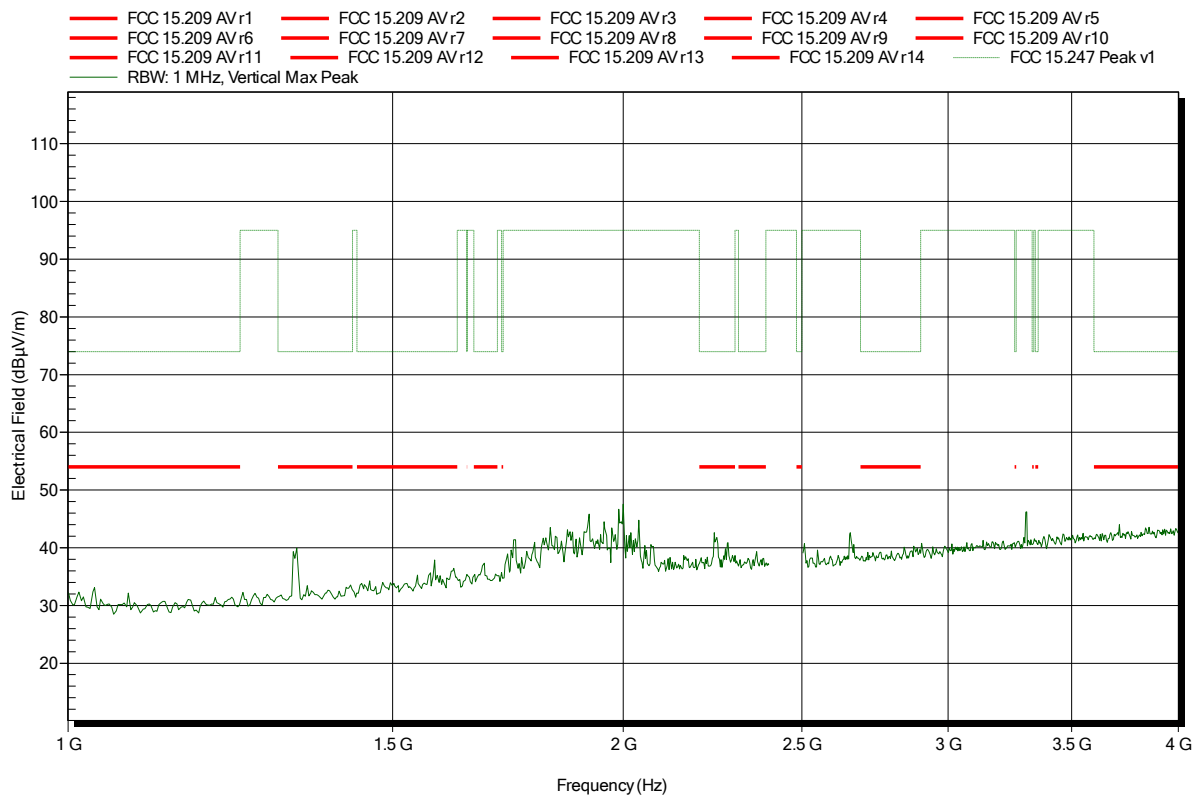


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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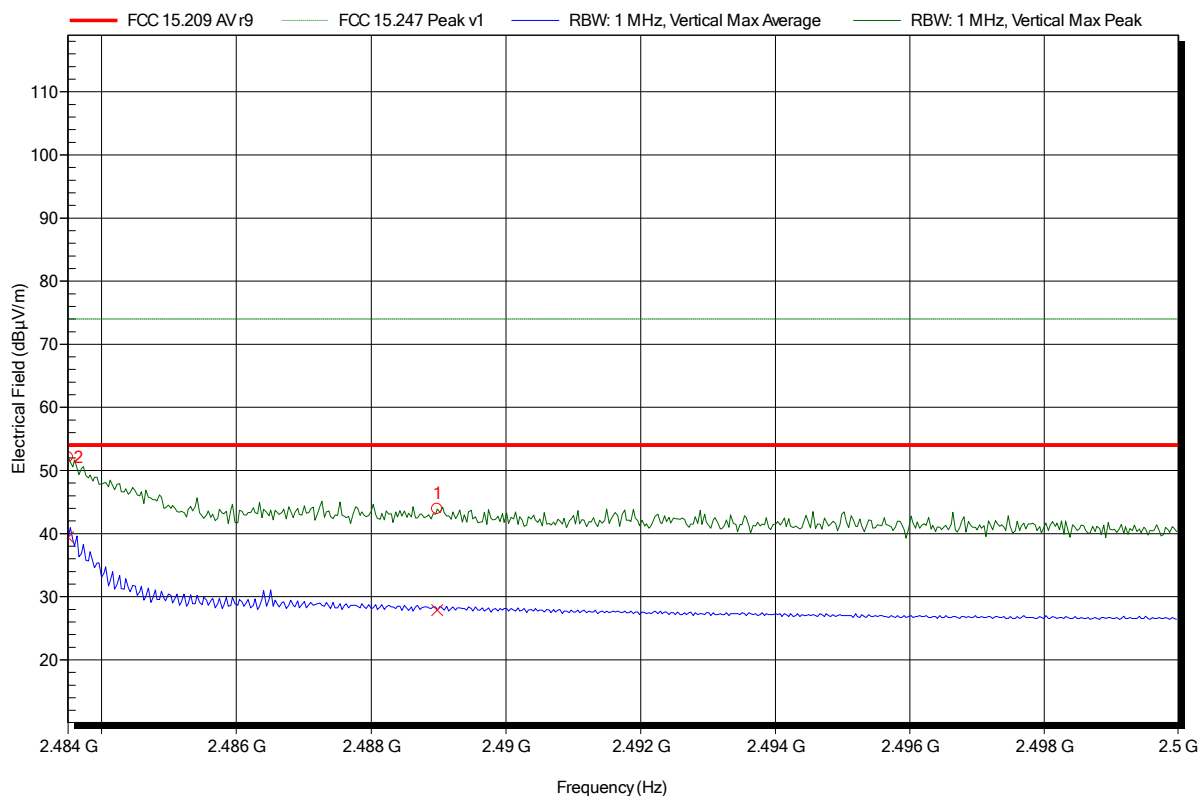


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal; higher bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	52.06 dBμV/m	74 dBμV/m	-21.94 dB	Pass
2.489 GHz	43.9 dBμV/m	74 dBμV/m	-30.1 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.484 GHz	39.42 dBμV/m	54 dBμV/m	-14.58 dB	Pass
2.489 GHz	27.85 dBμV/m	54 dBμV/m	-26.15 dB	Pass

Test Report No.: G0M-1503-4620-TFC247BT-V01

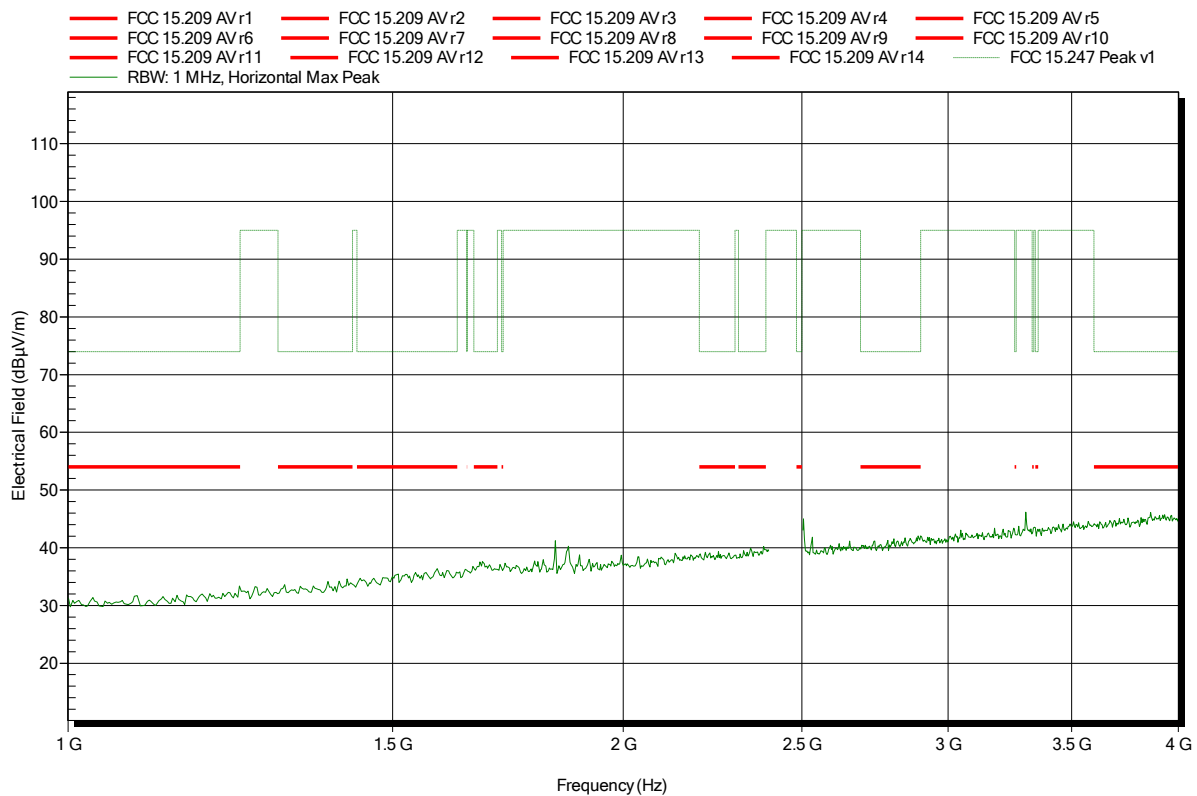
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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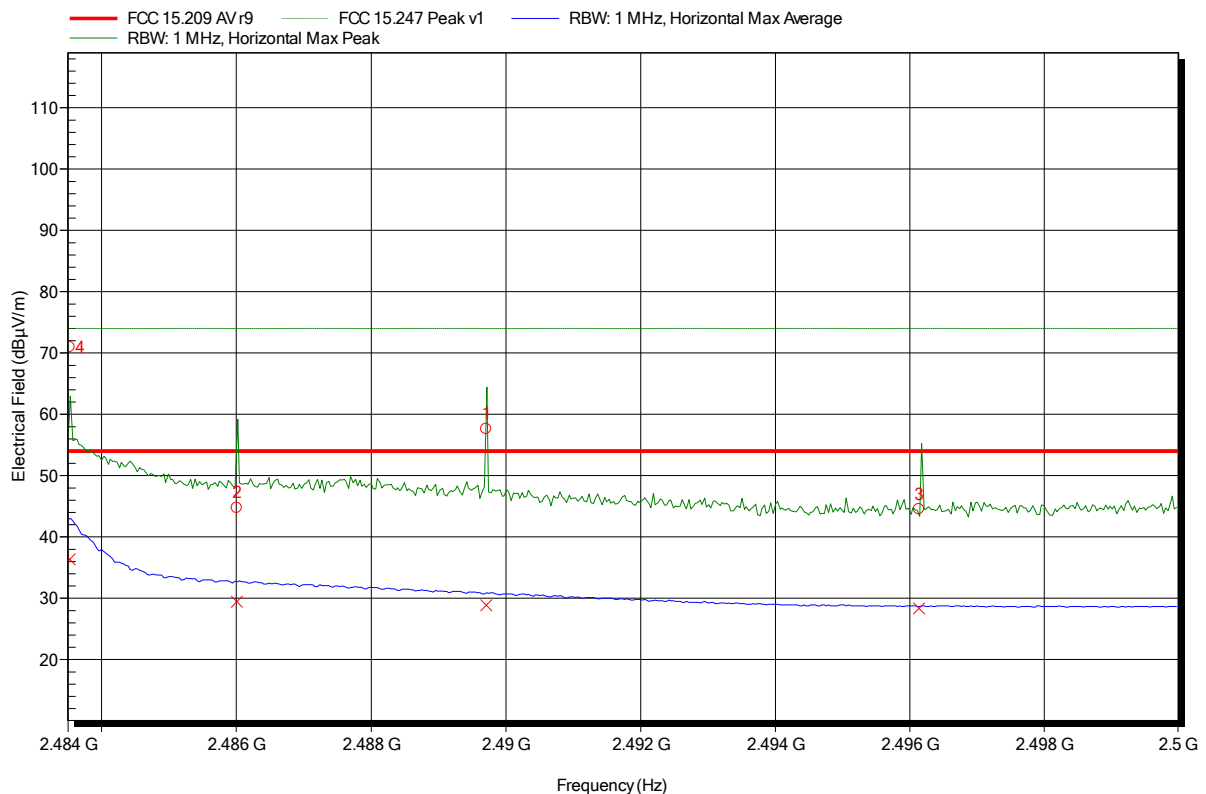


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal; higher bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.484 GHz	70.96 dBµV/m	74 dBµV/m	-3.04 dB	Pass
2.486 GHz	44.71 dBµV/m	74 dBµV/m	-29.29 dB	Pass
2.49 GHz	57.61 dBµV/m	74 dBµV/m	-16.39 dB	Pass
2.496 GHz	44.52 dBµV/m	74 dBµV/m	-29.48 dB	Pass

Frequency	Average	Average Limit	Average Difference	Average Status
2.484 GHz	36.36 dBµV/m	54 dBµV/m	-17.64 dB	Pass
2.486 GHz	29.45 dBµV/m	54 dBµV/m	-24.55 dB	Pass
2.49 GHz	28.87 dBµV/m	54 dBµV/m	-25.13 dB	Pass
2.496 GHz	28.36 dBµV/m	54 dBµV/m	-25.64 dB	Pass

Test Report No.: G0M-1503-4620-TFC247BT-V01

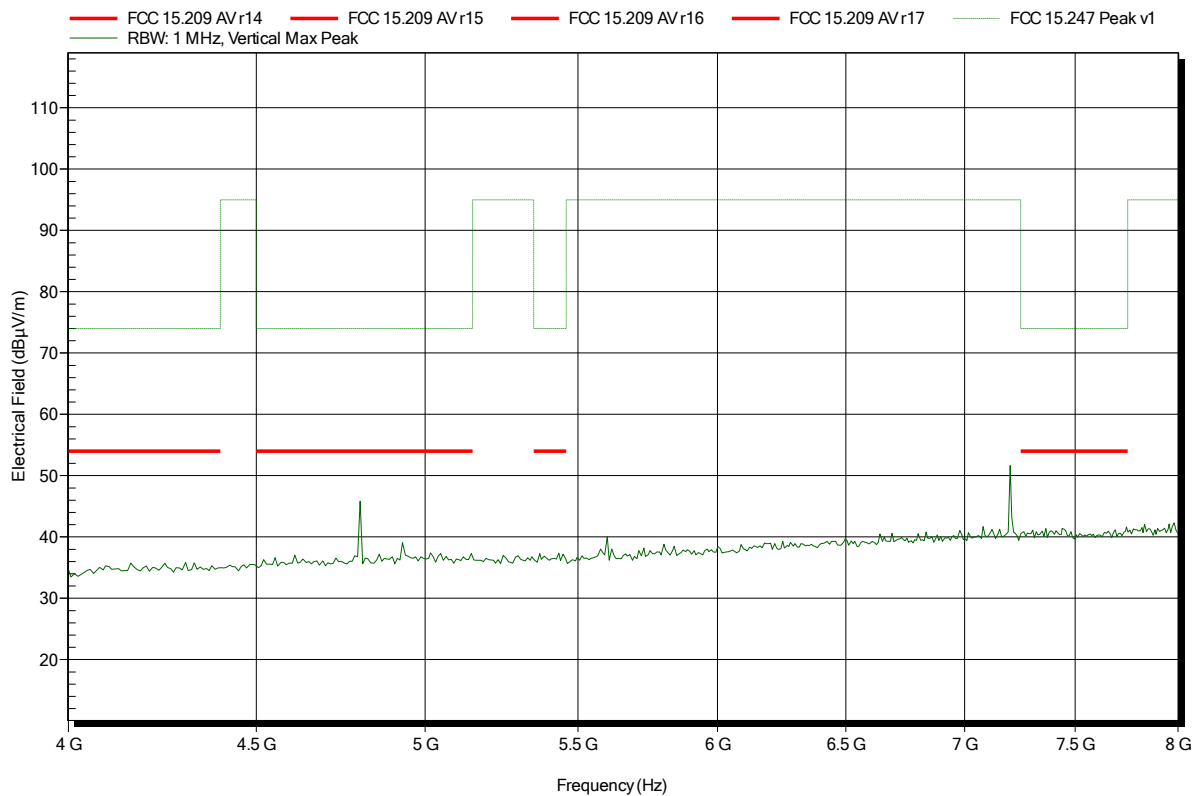
Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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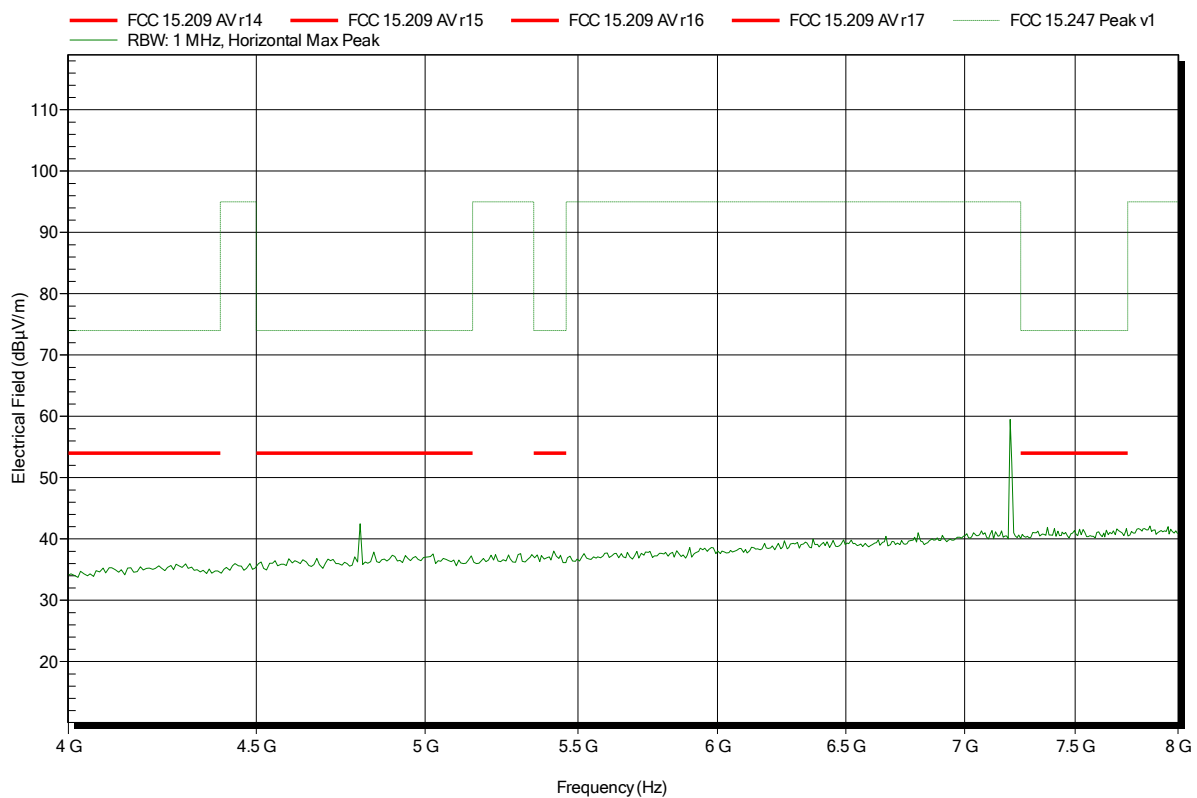


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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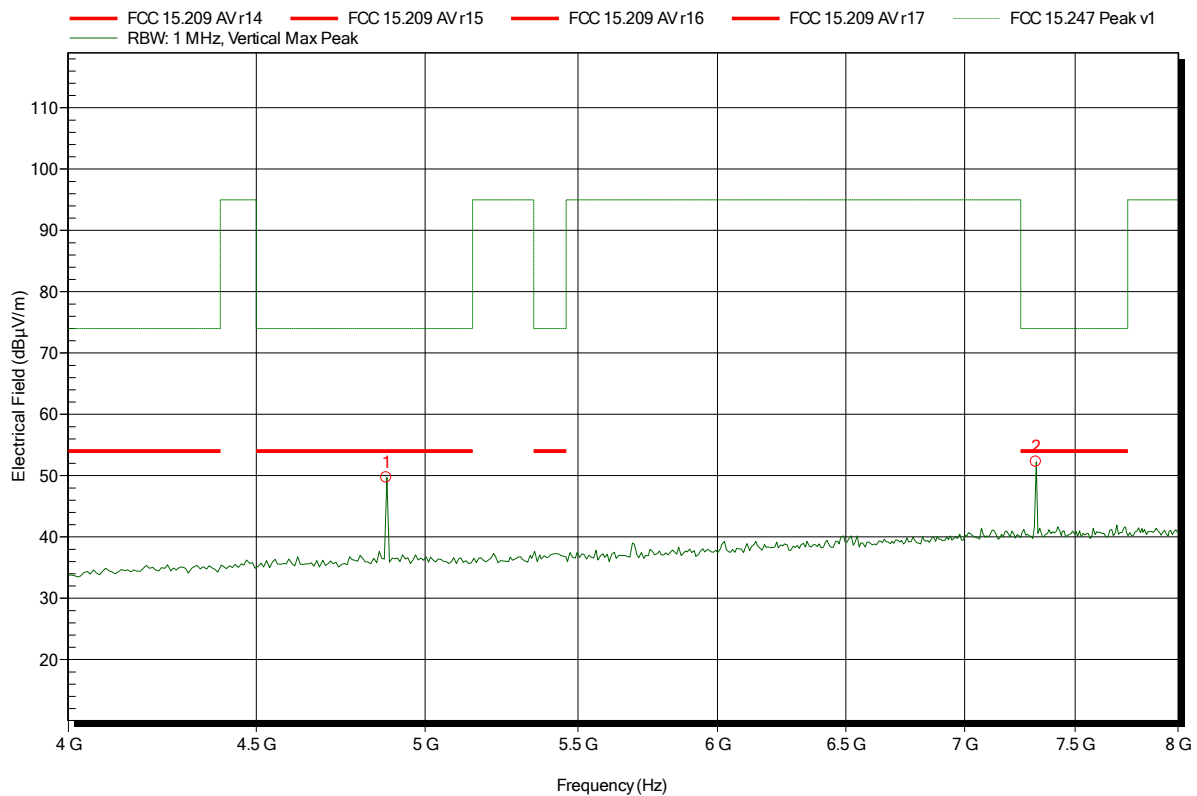


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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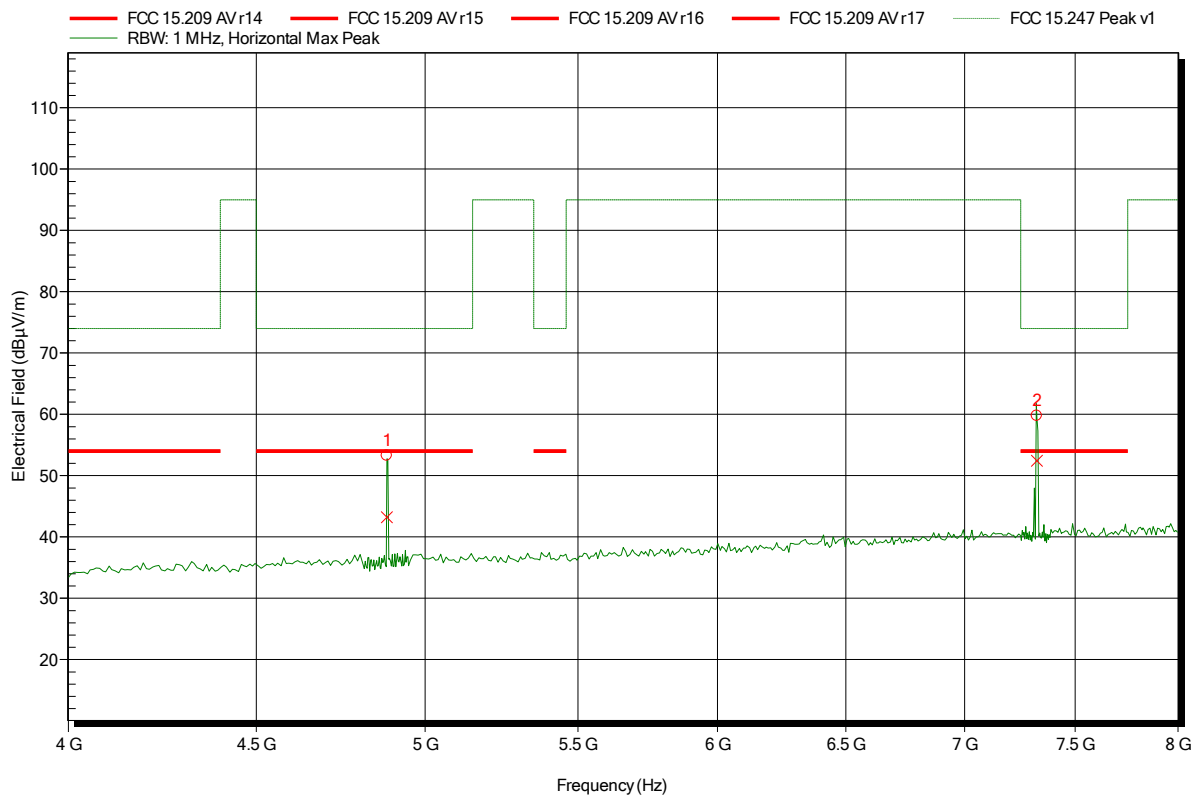
Frequency	Peak	Peak Limit	Peak Difference	Status
4.88 GHz	49.69 dBμV/m	74 dBμV/m	-24.31 dB	Pass
7.32 GHz	52.27 dBμV/m	74 dBμV/m	-21.73 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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Frequency	Peak	Peak Limit	Peak Difference	Status
4.882 GHz	53.26 dBµV/m	74 dBµV/m	-20.74 dB	Pass
7.323 GHz	59.74 dBµV/m	74 dBµV/m	-14.26 dB	Pass

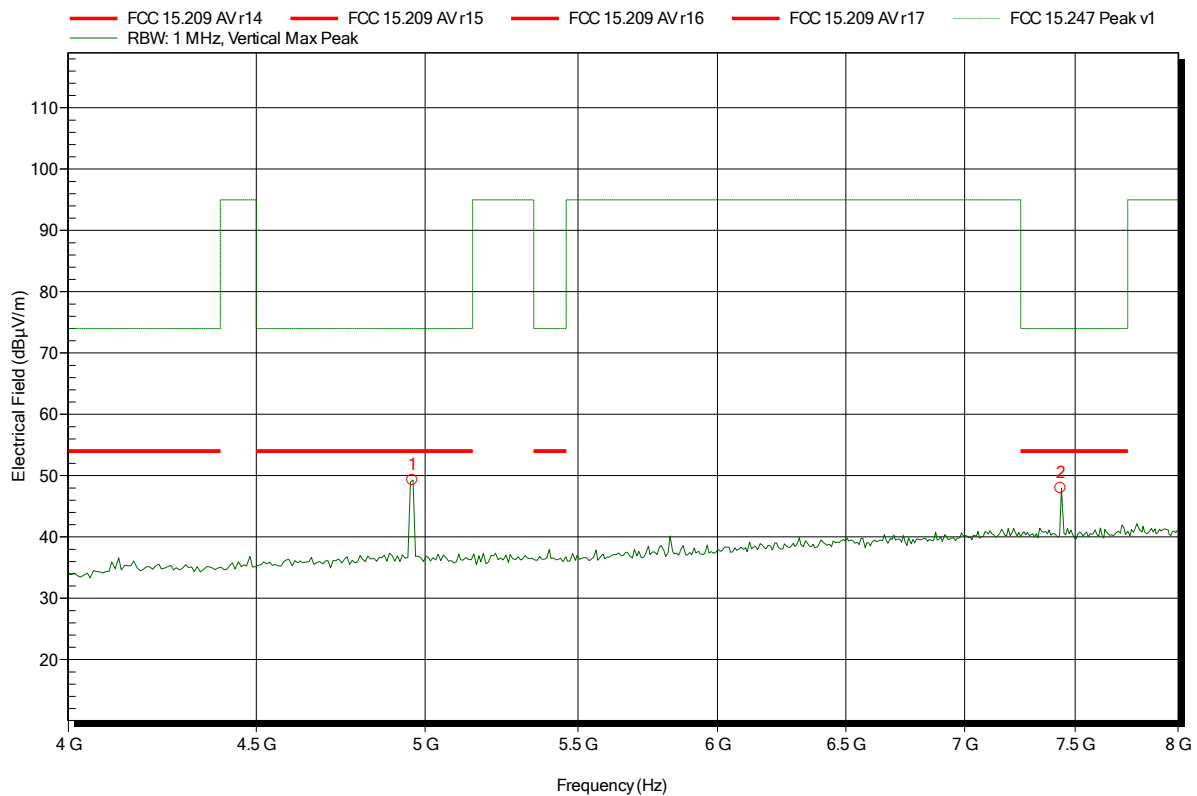
Frequency	Average	Average Limit	Average Difference	Average Status
4.882 GHz	43.22 dBµV/m	54 dBµV/m	-10.78 dB	Pass
7.323 GHz	52.42 dBµV/m	54 dBµV/m	-1.58 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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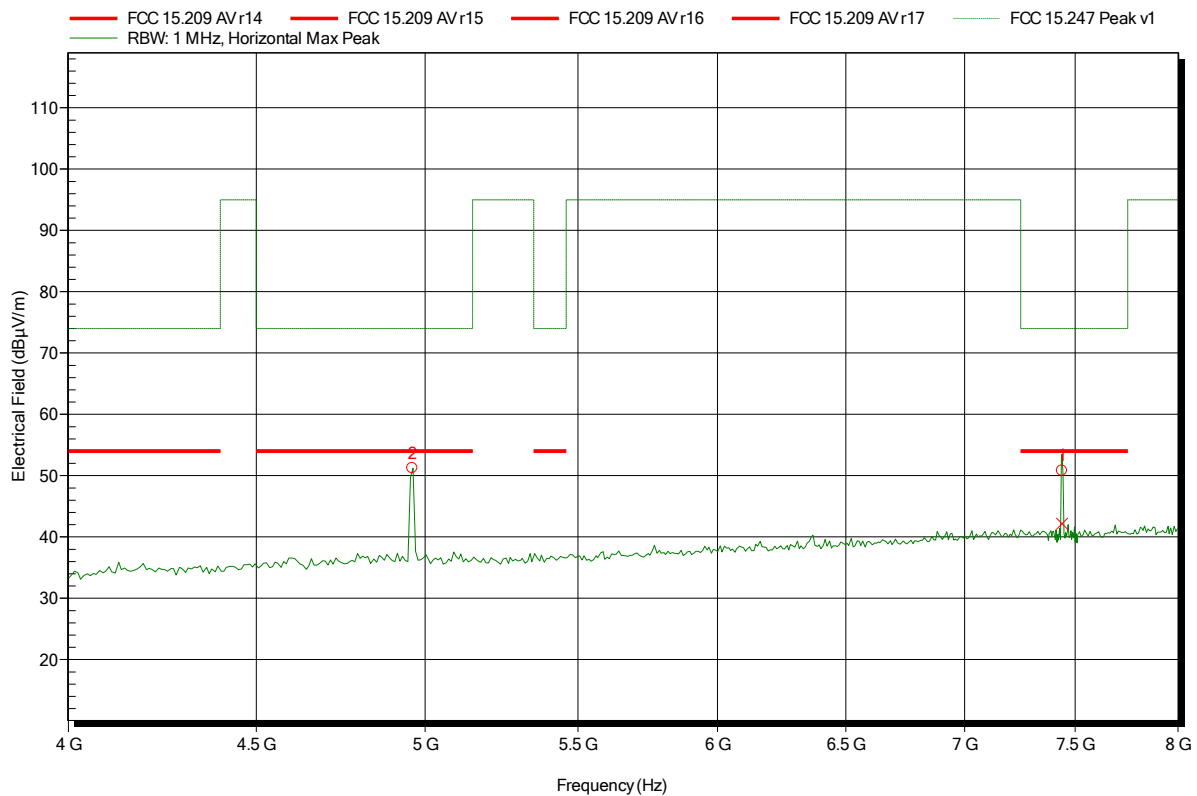
Frequency	Peak	Peak Limit	Peak Difference	Status
4.96 GHz	49.31 dBμV/m	74 dBμV/m	-24.69 dB	Pass
7.432 GHz	47.98 dBμV/m	74 dBμV/m	-26.02 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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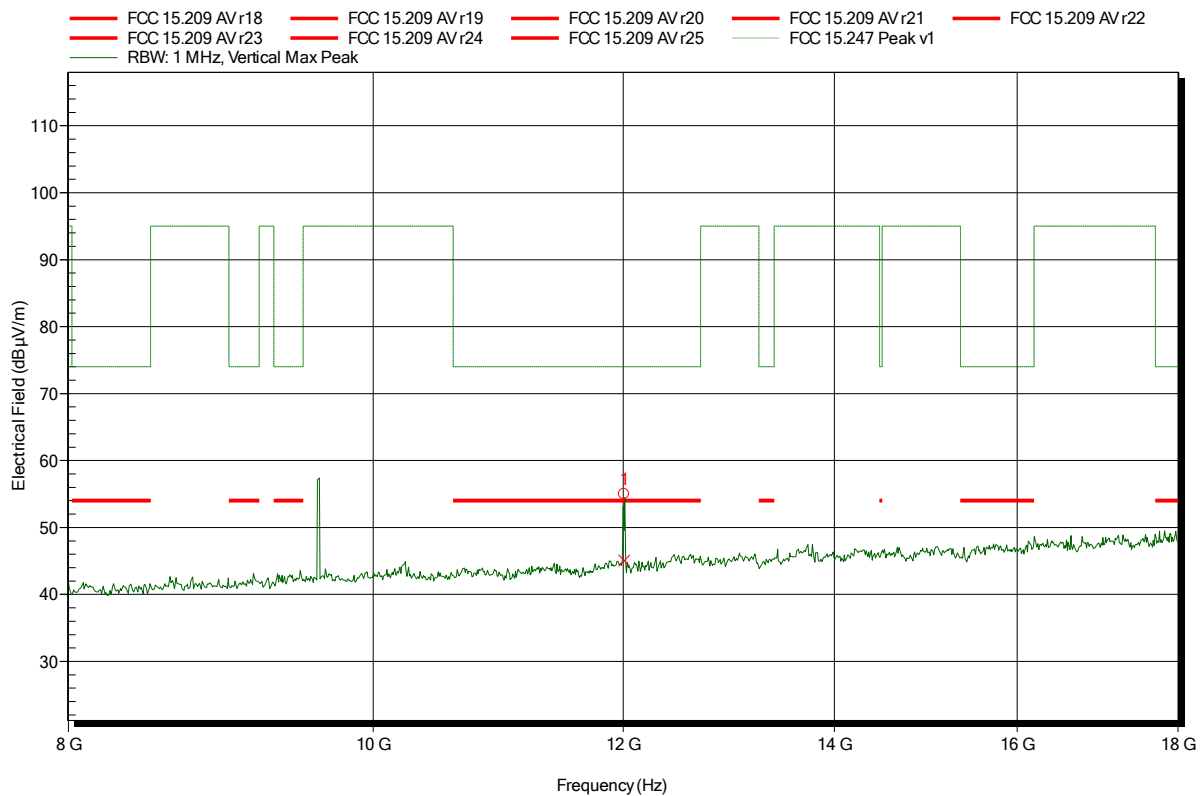
Frequency	Peak	Peak Limit	Peak Difference	Status
4.96 GHz	51.21 dBµV/m	74 dBµV/m	-22.79 dB	Pass
7.439 GHz	50.79 dBµV/m	74 dBµV/m	-23.21 dB	Pass
Frequency	Average	Average Limit	Average Difference	Average Status
7.439 GHz	42.17 dBµV/m	54 dBµV/m	-11.83 dB	Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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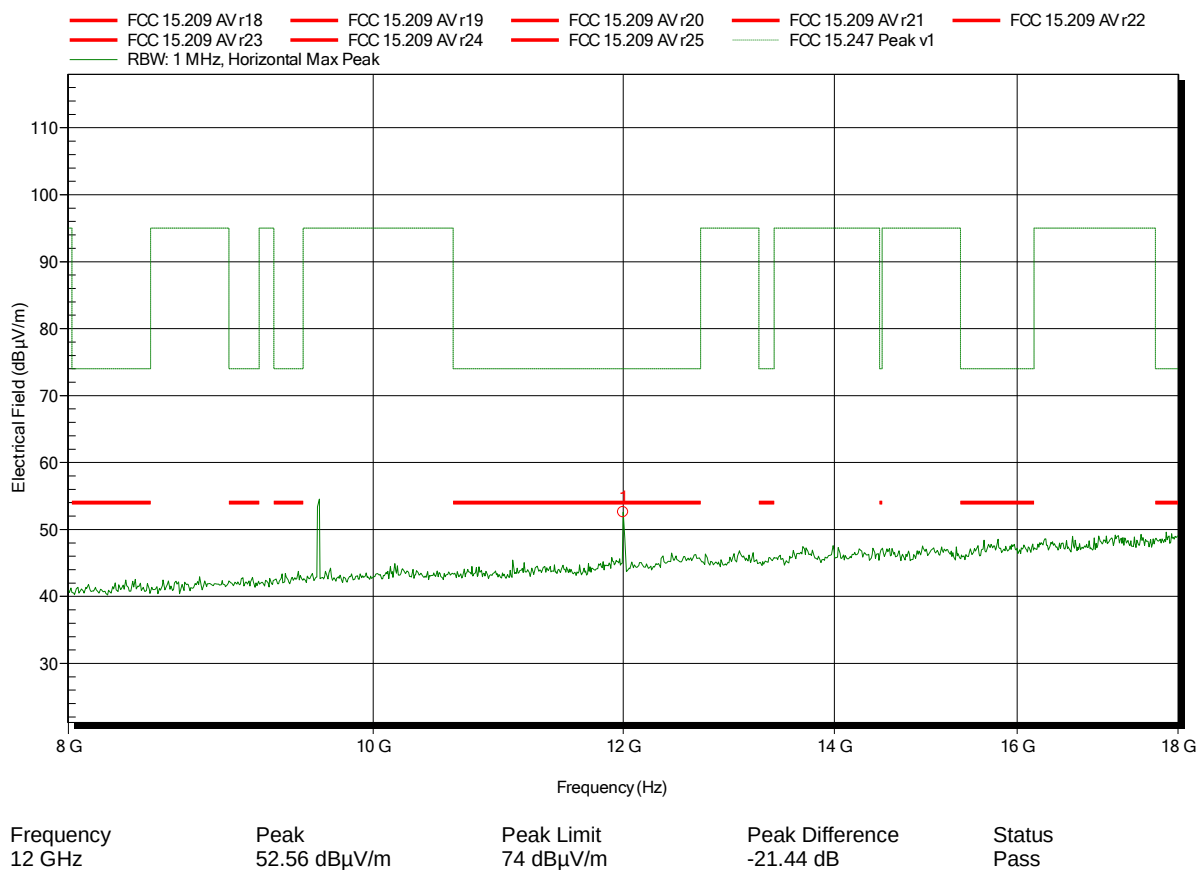
Frequency 12.01 GHz	Peak 54.96 dBµV/m	Peak Limit 74 dBµV/m	Peak Difference -19.04 dB	Status Pass
Frequency 12.01 GHz	Average 45.07 dBµV/m	Average Limit 54 dBµV/m	Average Difference -8.93 dB	Average Status Pass

Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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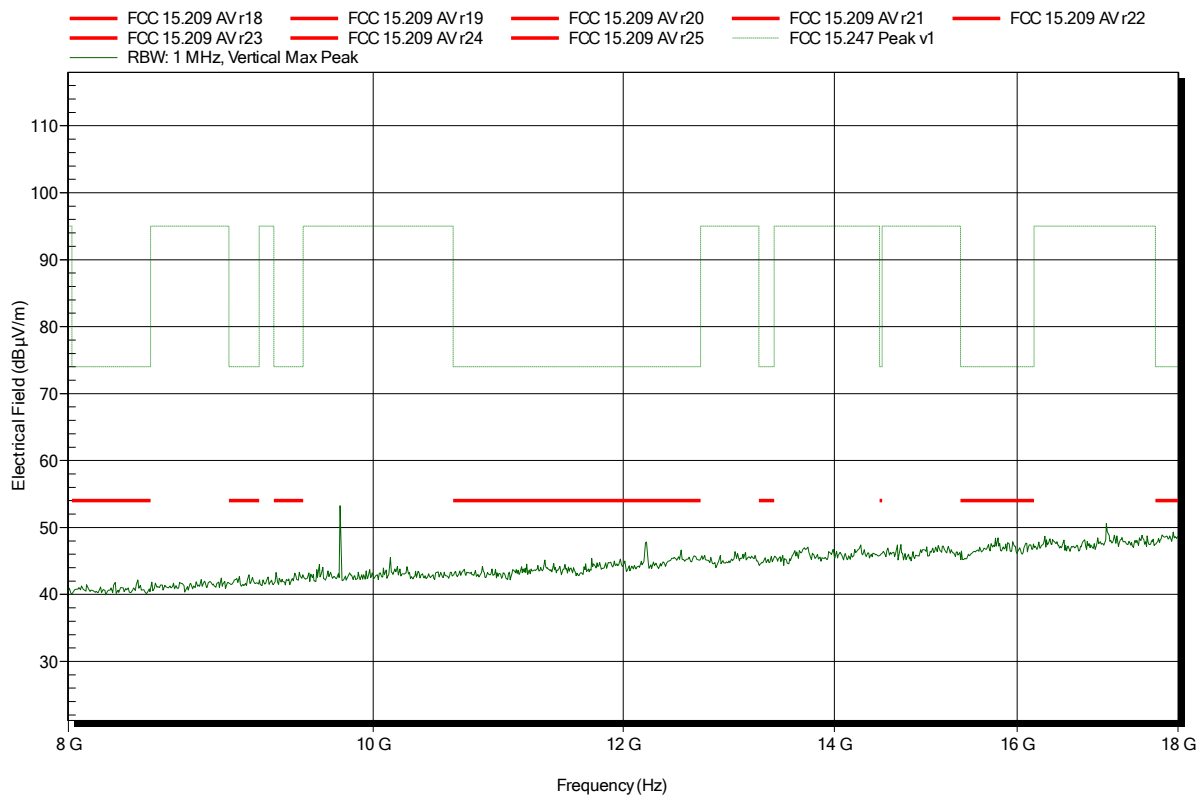


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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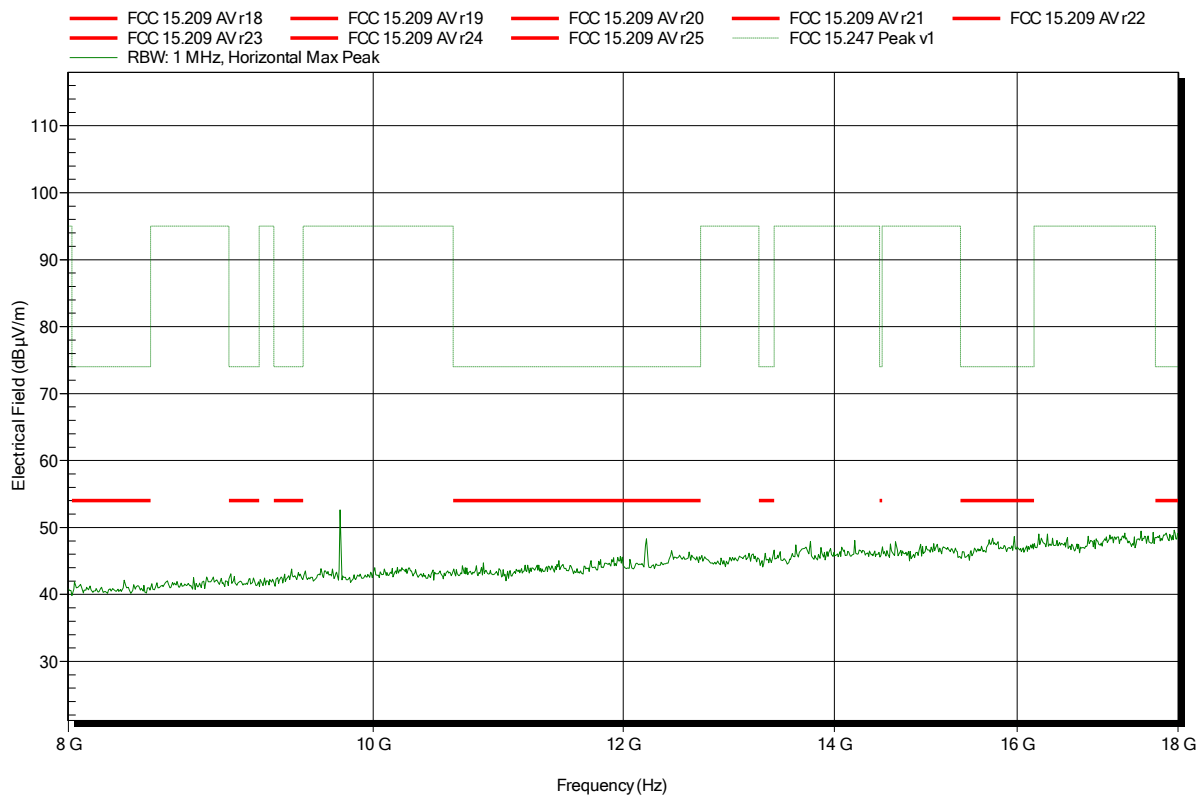


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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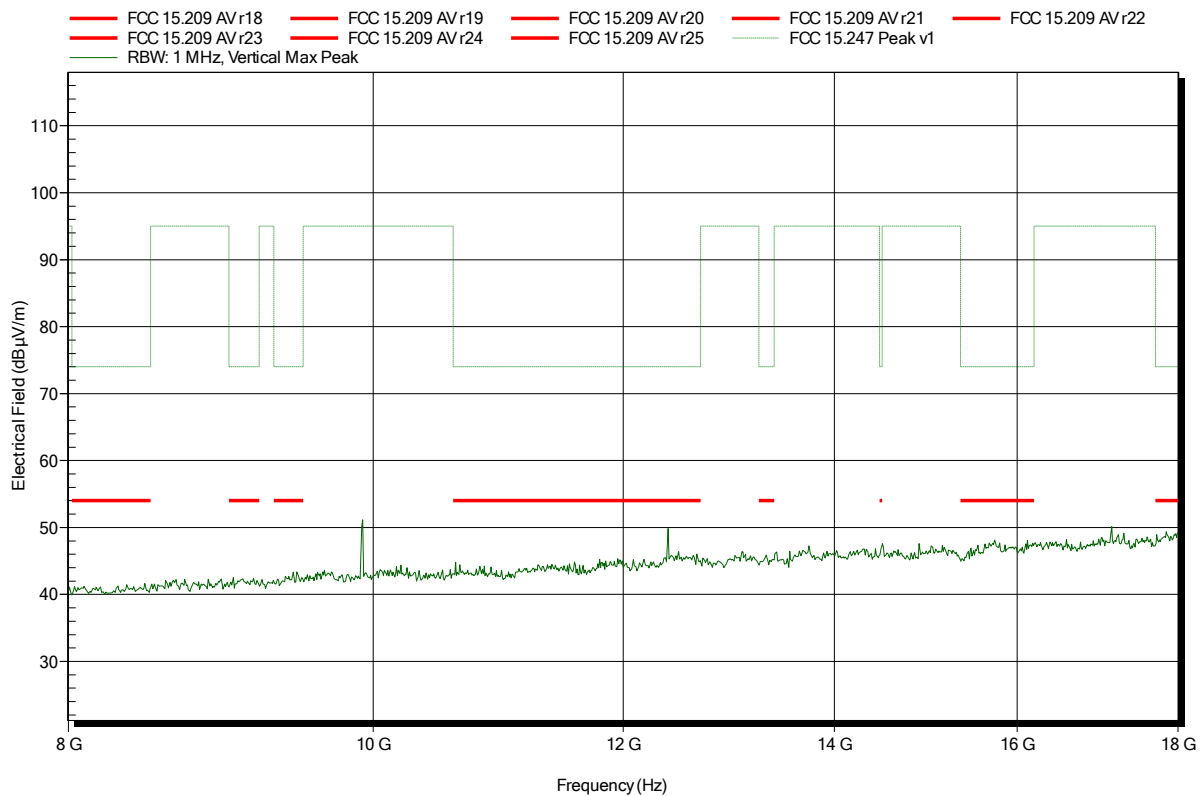


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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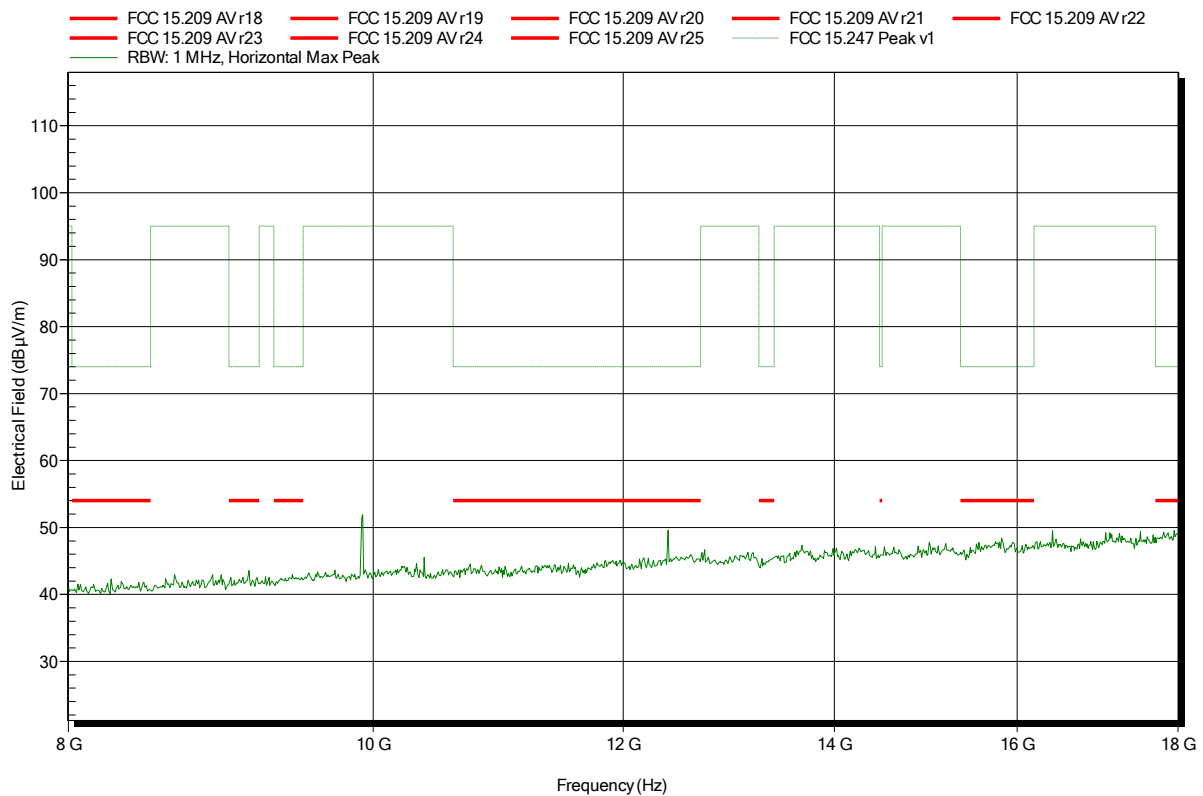


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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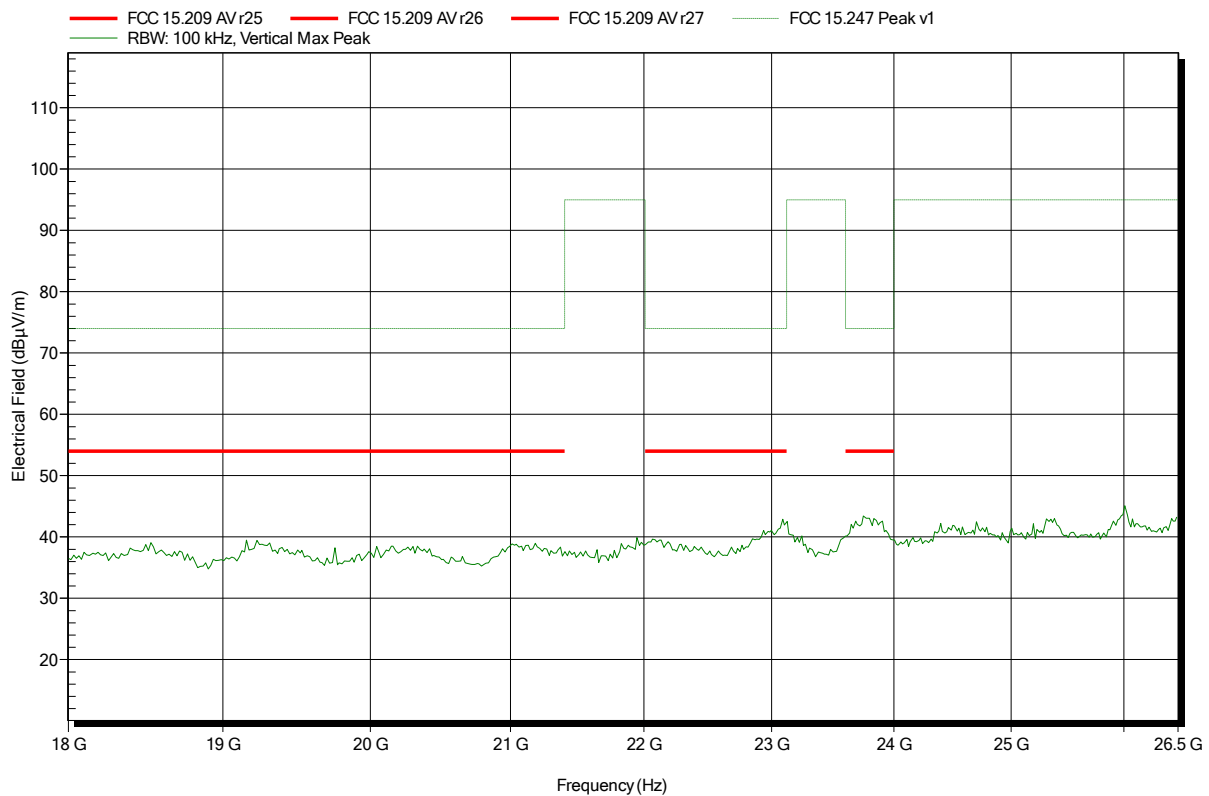


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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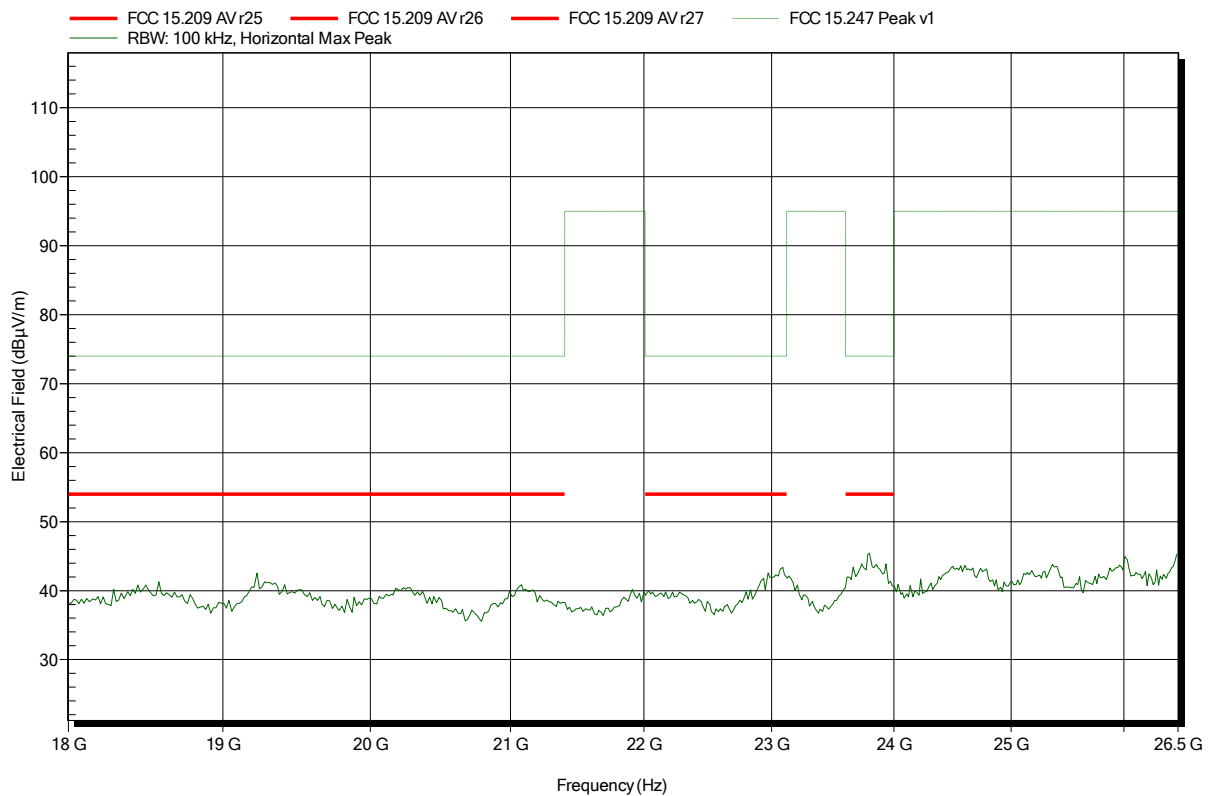


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2402 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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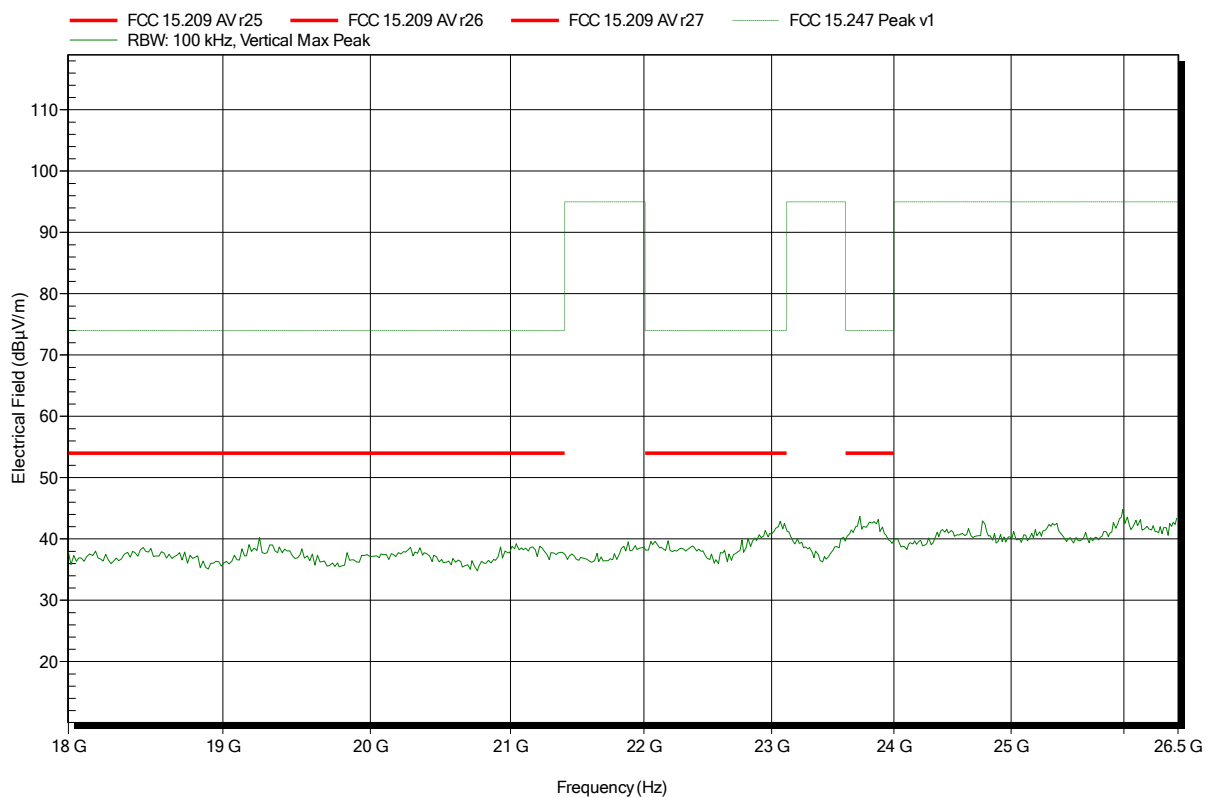


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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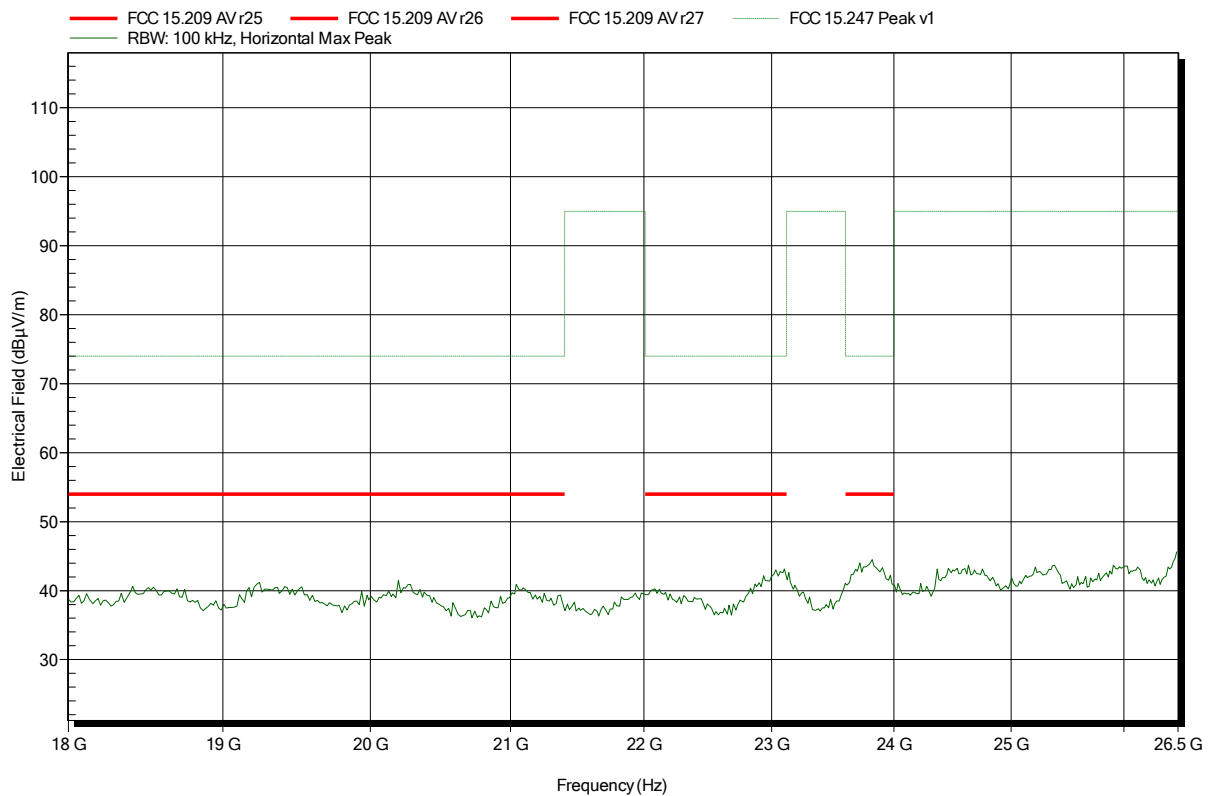


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2441 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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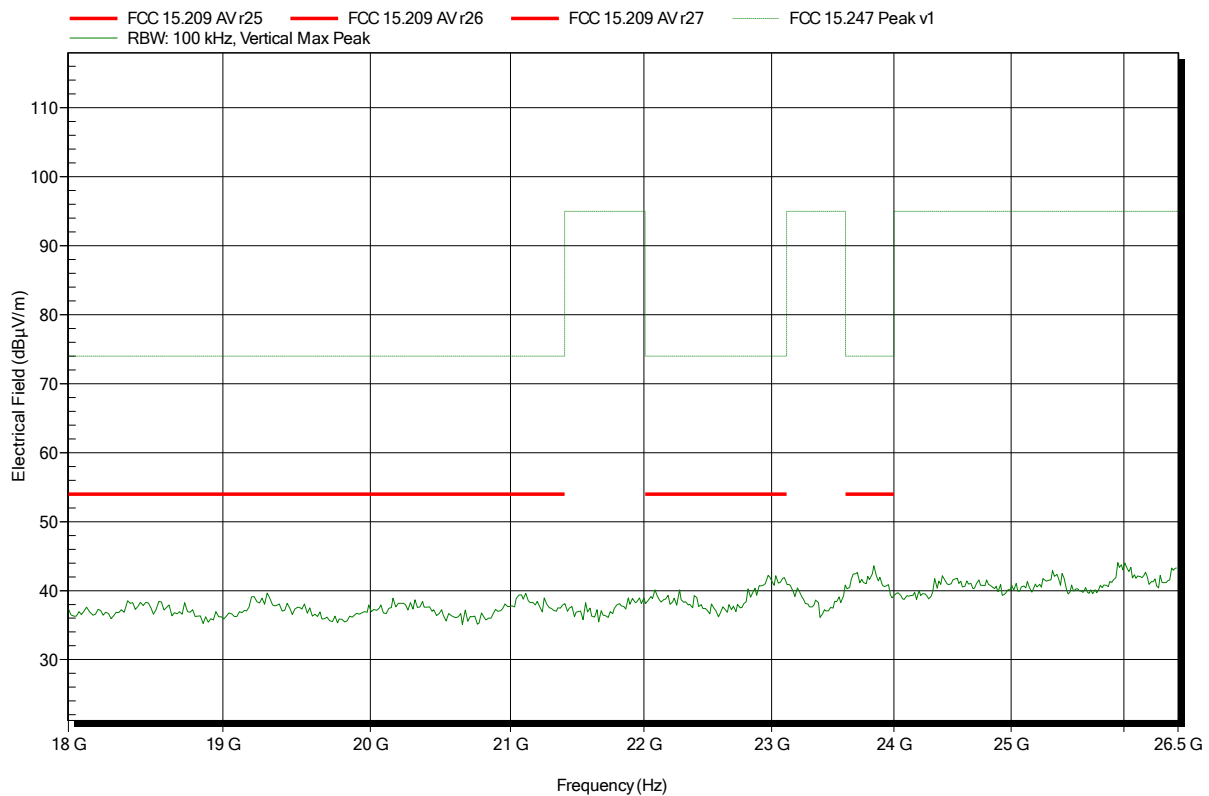


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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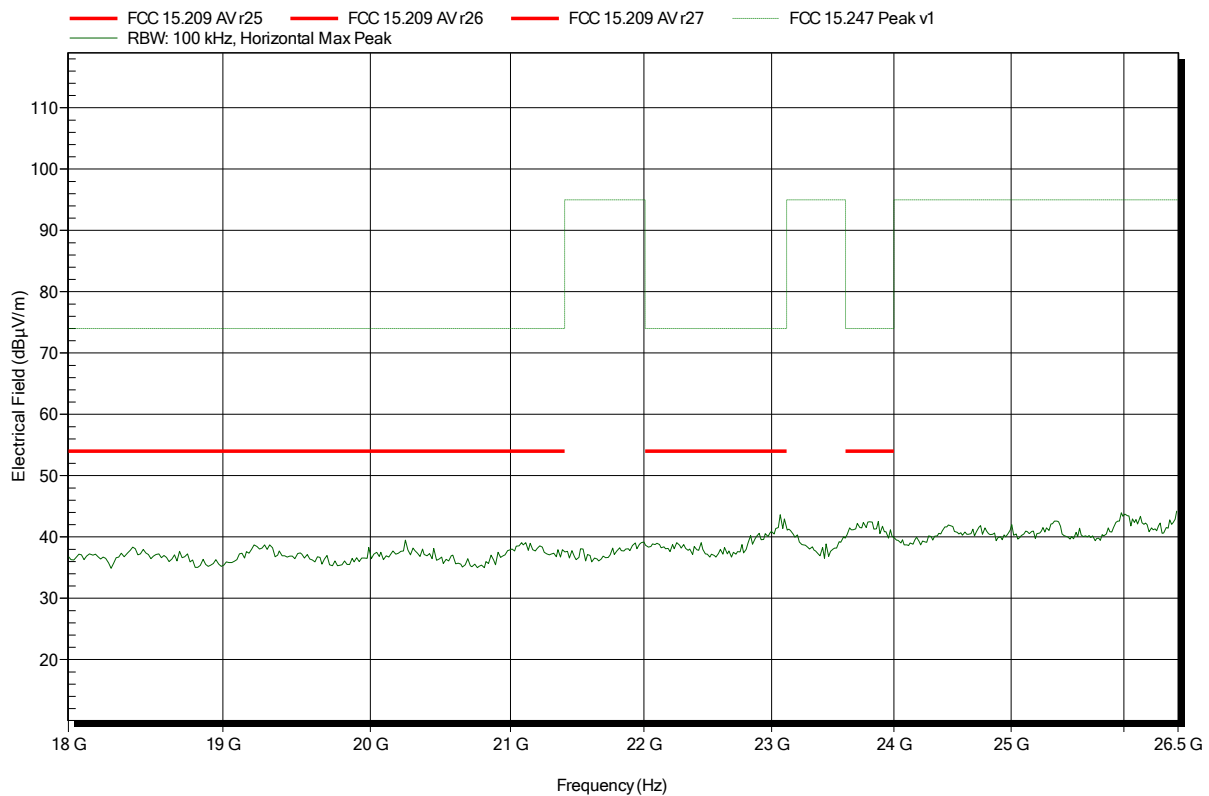


Spurious emissions according to FCC part 15 Subpart C § 15.247

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; Bluetooth DUT mode: 2480 MHz, 3-DH5
 Test Date: 2015-04-28
 Note: EUT horizontal

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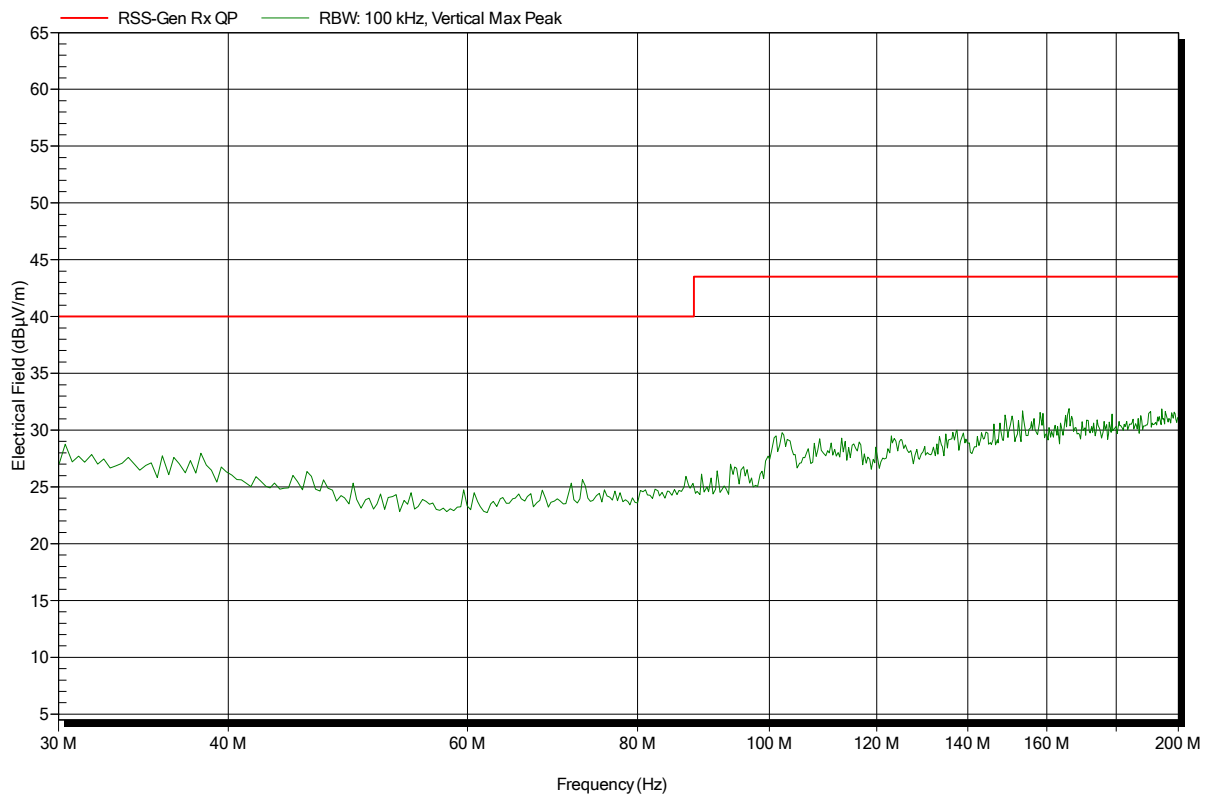
ANNEX B Receiver radiated spurious emissions

Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; Bluetooth RX scan mode
Test Date:	2015-04-28
Note:	EUT horizontal

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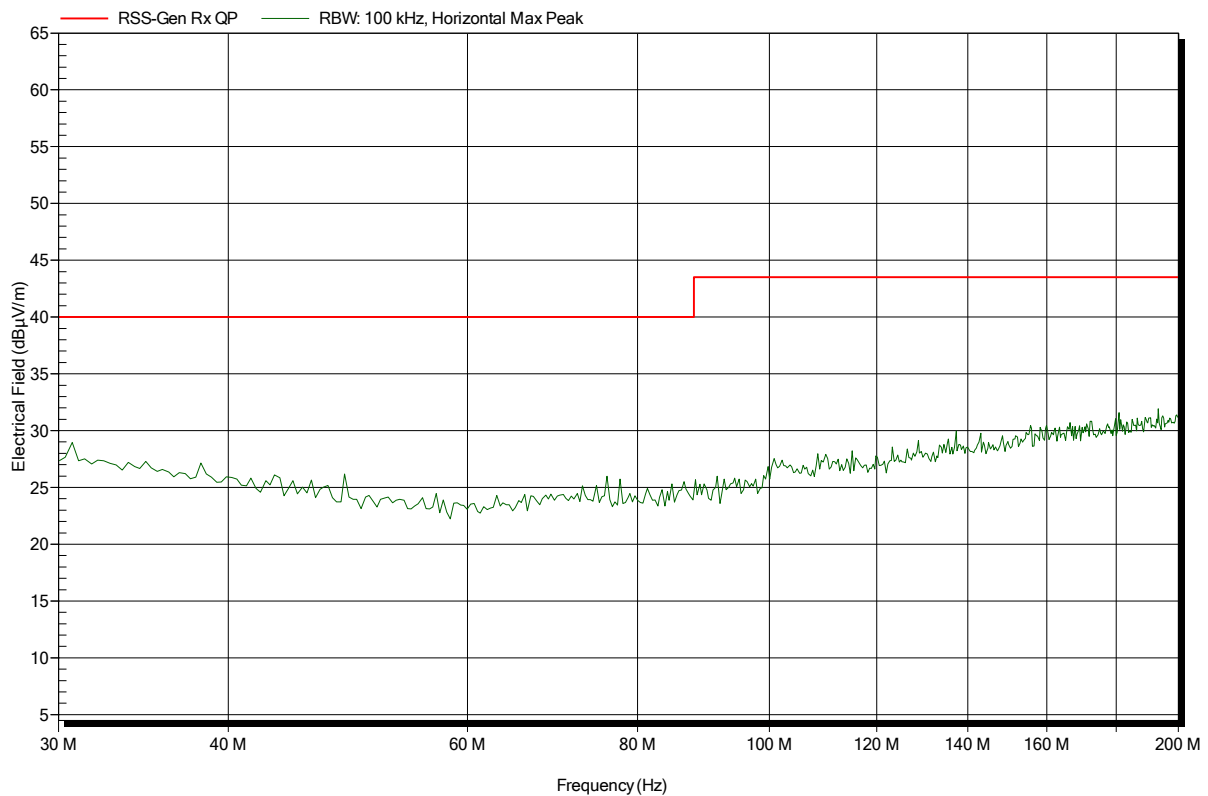


Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: RX; Bluetooth RX scan mode
 Test Date: 2015-04-28
 Note: EUT horizontal

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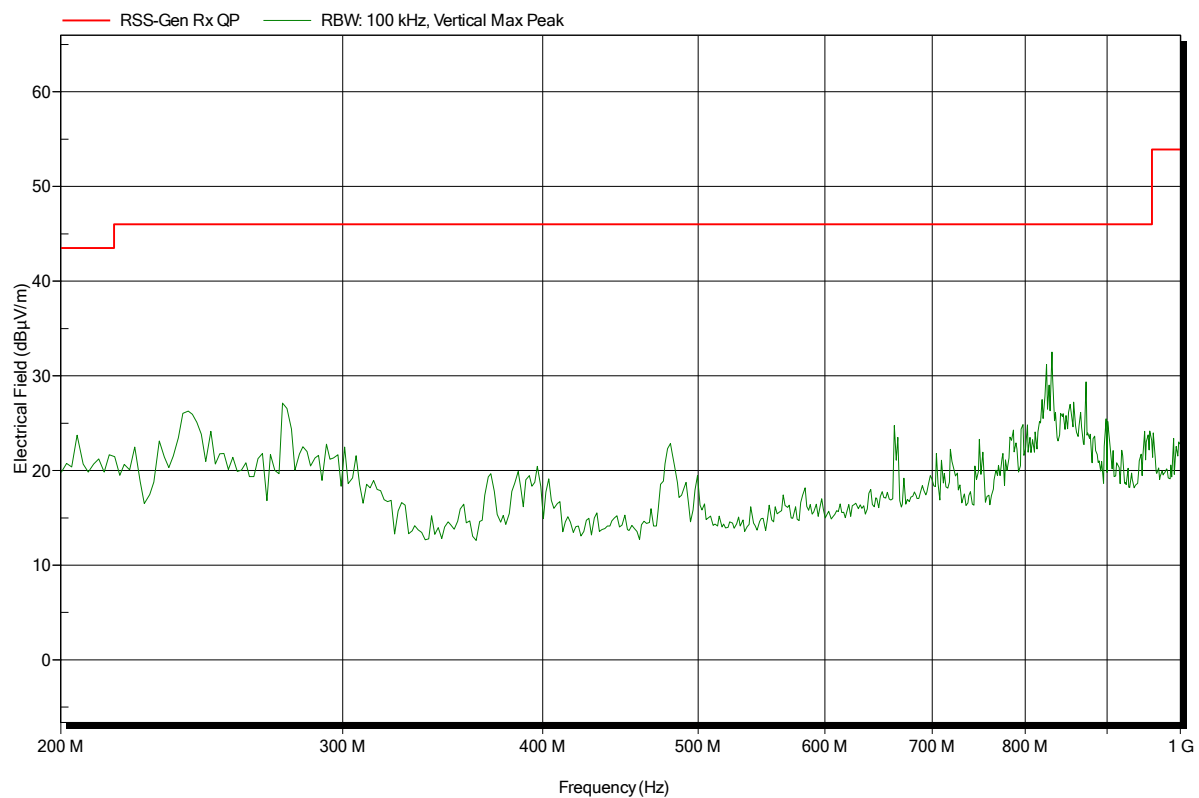


Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; Bluetooth RX scan mode
Test Date:	2015-04-28
Note:	EUT horizontal

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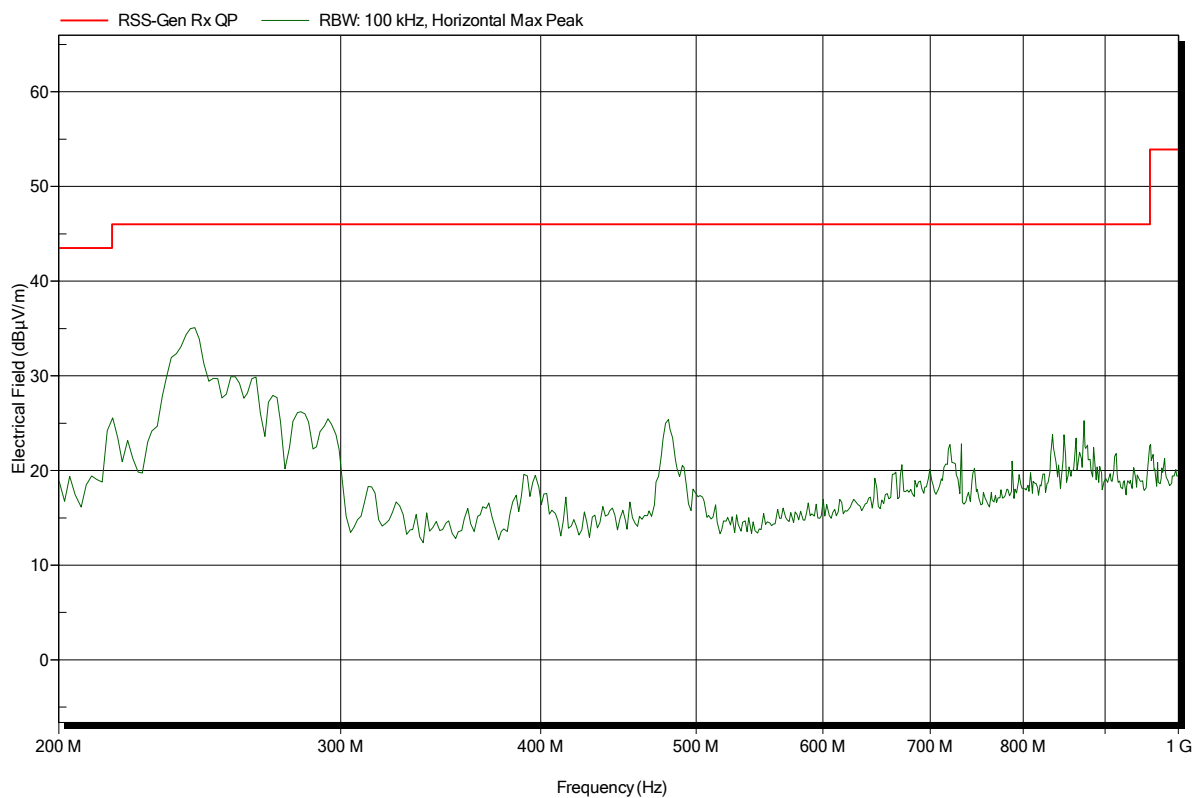


Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant:	BARTEC PIXAVI AS
EUT Name:	Wireless camera (Standard version)
Model:	OrbitX ST
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Vnom: 3.7 VDC lithium battery
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; Bluetooth RX scan mode
Test Date:	2015-04-28
Note:	EUT horizontal

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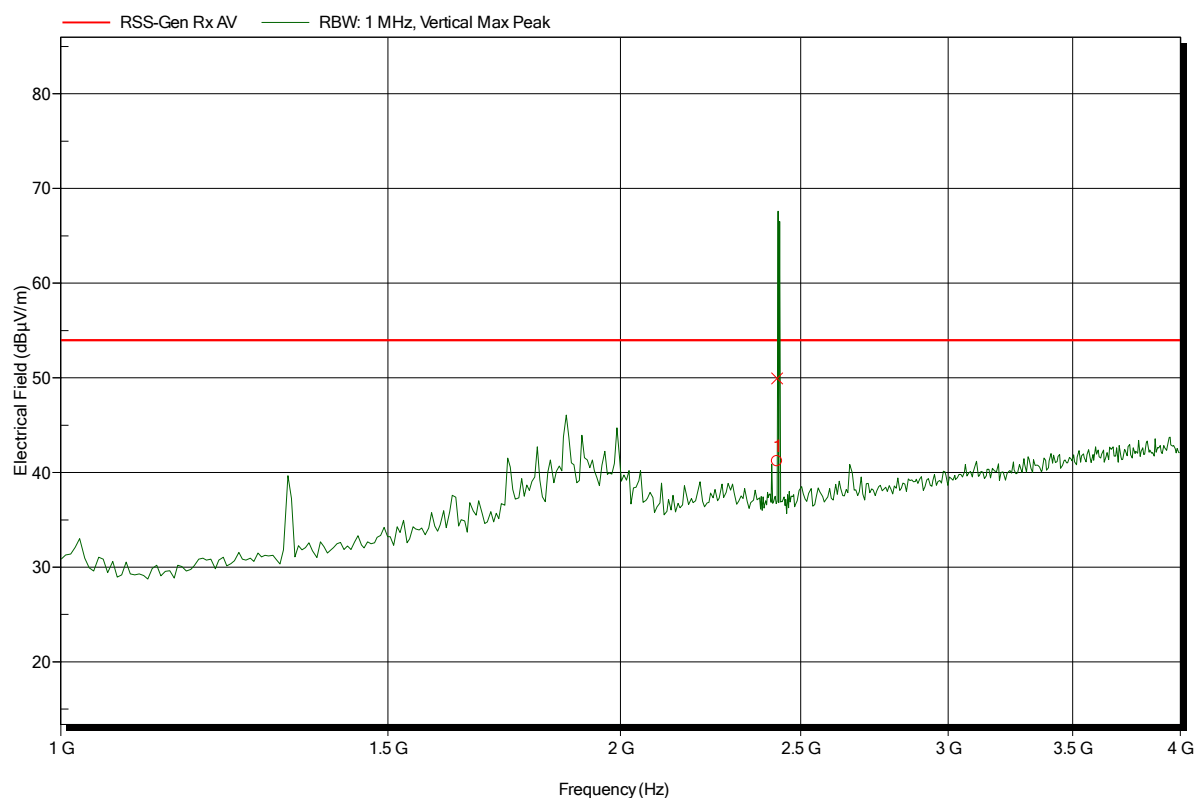


Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: RX; Bluetooth RX scan mode
 Test Date: 2015-04-28
 Note: EUT horizontal

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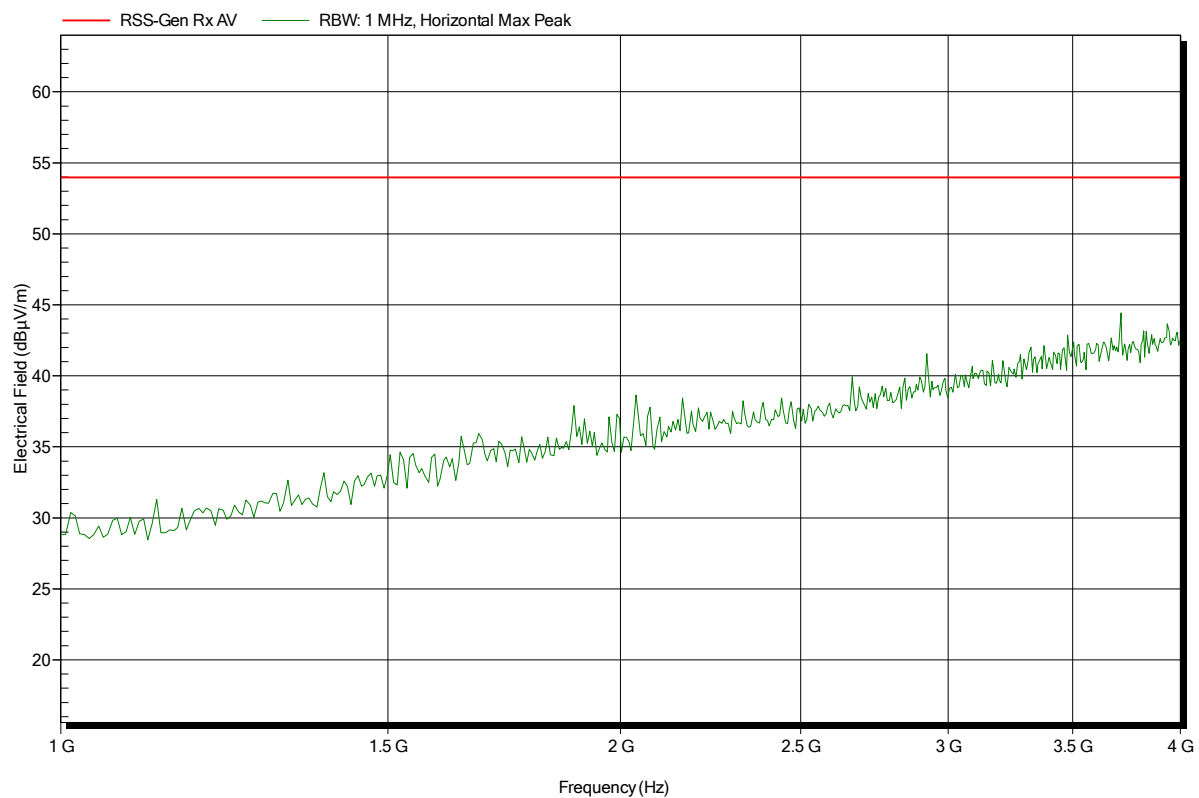
Frequency 2.428 GHz	Peak 41.17 dBμV/m	Peak Limit 53.98 dBμV/m	Peak Difference -12.81 dB	Peak Status Pass
Frequency 2.428 GHz	Average 49.93 dBμV/m	Average Limit 53.98 dBμV/m	Average Difference -4.05 dB	Average Status Pass

Spurious emissions according to RSS-GEN

Project number: GOM-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: RX; Bluetooth RX scan mode
 Test Date: 2015-04-28
 Note: EUT horizontal

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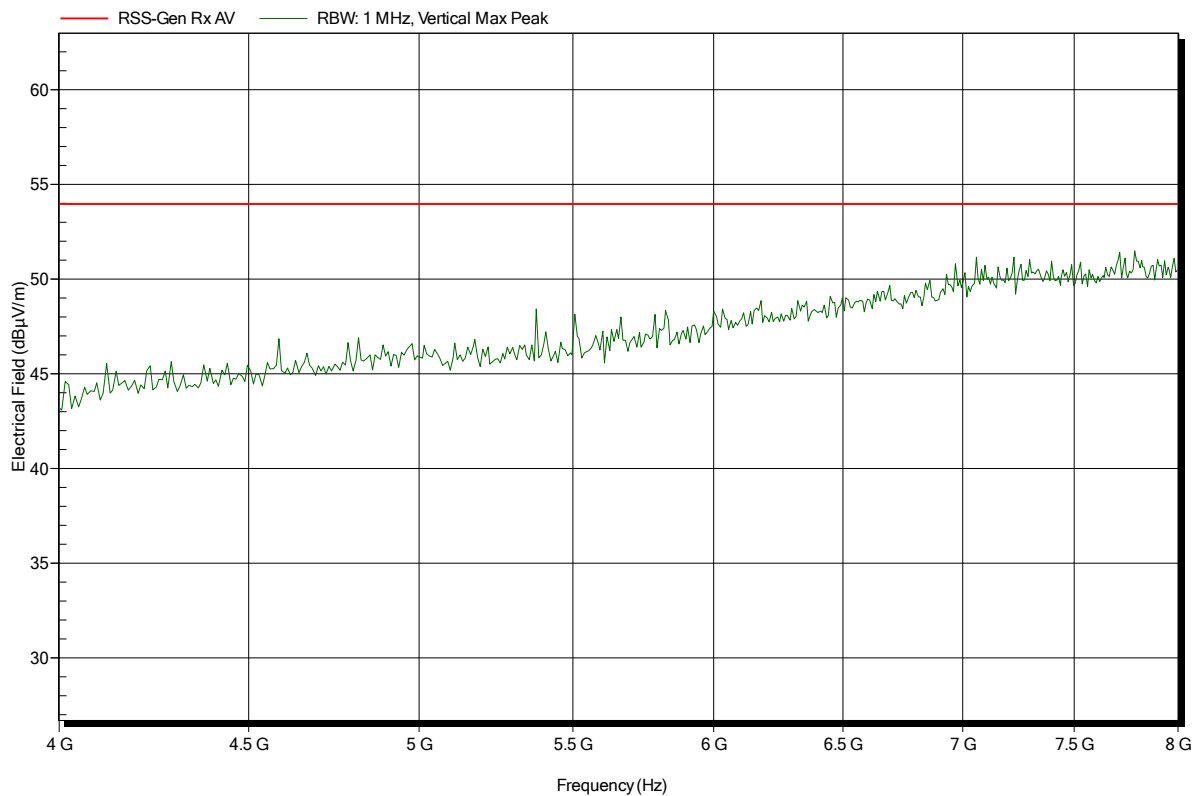


Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Vertical
 Measurement distance: 3 m
 Mode: RX; Bluetooth RX scan mode
 Test Date: 2015-04-28
 Note: EUT horizontal

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Spurious emissions according to RSS-GEN

Project number: G0M-1503-4620

Applicant: BARTEC PIXAVI AS
 EUT Name: Wireless camera (Standard version)
 Model: OrbitX ST
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC lithium battery
 Antenna: Rohde & Schwarz HL 025, Horizontal
 Measurement distance: 3 m
 Mode: RX; Bluetooth RX scan mode
 Test Date: 2015-04-28
 Note: EUT horizontal

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