

RADIO REPORT FCC 47 CFR Part 15C ISED Canada RSS-247 Digital transmission systems operating within the 2400 – 2483.5 MHz band	
Report Reference No	G0M-1903-8127-TFC247BL-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	    DAkkS - Registration number : D-PL-12092-01-03 (ISED) ISED Testing Laboratory site: 3470A-2 DAkkS - Registration number : D-PL-12092-01-04 (FCC) FCC Filed Test Laboratory, Reg.-No.: 96970
Applicant	peiker Consumer Electronics Evolution GmbH
Address	Gartenstraße 25 61352 Bad Homburg GERMANY
Test Specification	According to FCC/ISED rules
Standard	47 CFR Part 15C RSS-247, Issue 2, 2017-02 RSS-Gen, Issue 5, Amendment 1, 2019-03
Non-Standard Test Method	None
Equipment under Test (EUT):	
Product Description	Audio Communication Device
Model(s)	C3
Additional Model(s)	None
Brand Name(s)	None
Hardware Version(s)	1.00
Software Version(s)	1.00
FCC-ID	2ANUYC3
IC	n/a
Test Result	PASSED

Possible test case verdicts:		
required by standard but not tested	N/T	
not required by standard	N/R	
not applicable to EUT	N/A	
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	2019-03-25	
Report:		
Compiled by	Wilfried Treffke	
Tested by (+ signature) (Responsible for Test)	Wilfried Treffke	
Approved by (+ signature) (Deputy Head of Lab)	Toralf Jahn	
Date of Issue	2019-08-28	
Total number of pages	71	
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:		
There are two antennas. (Antenna 1 and Antenna 2) Antenna 1 is used for Bluetooth and Wifi (for transmit and receive mode). Antenna 2 is used for Wifi only for receive mode. (Antenna diversity)		

VERSION HISTORY

Version History			
Version	Issue Date	Remarks	Revised By
01	2019-08-28	Initial Release	

ABBREVIATIONS AND ACRONYMS

Acronyms	
Acronym	Description
EUT	Equipment Under Test
FCC	Federal Communications Commission
ISED	Innovation, Science and Economic Development Canada
RBW	Resolution bandwidth
RMS	Root mean square
VBW	Video bandwidth
V _{NOM}	Nominal supply voltage

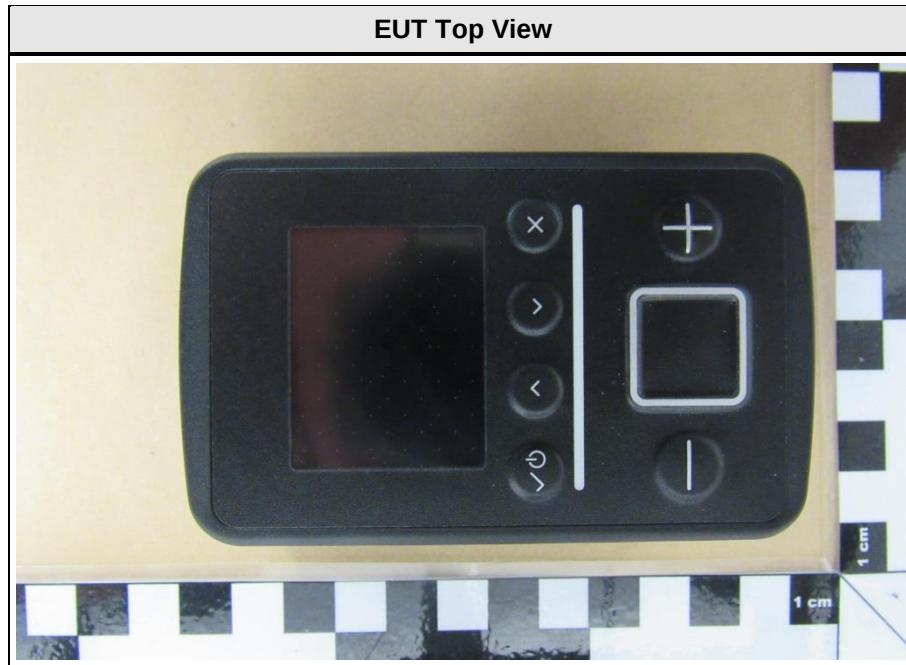
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1 Equipment (Test Item) Under Test

Description	Audio Communication Device	
Model	C3	
Additional Model(s)	None	
Brand Name(s)	None	
Serial Number(s)	None	
Hardware Version(s)	1.00	
Software Version(s)	1.00	
PMN	n/a	
HVIN	n/a	
FVIN	n/a	
HMN	n/a	
FCC-ID	2ANUYC3	
IC	n/a	
Equipment type	End Product	
Radio type	Transceiver	
Assigned frequency bands	2400 - 2483.5 MHz	
Radio technology	Bluetooth LE	
Modulation	GFSK	
Number of antenna ports	2	
Radio Module	Type	WiLink™ 8 single band combo 2x2 MIMO Wi-Fi®, Bluetooth® & Bluetooth Smart module
	Model	WL1835MOD
	Manufacturer	Texas Instruments
	HW Version	Unspecified
	SW Version	Unspecified
Antenna 1	Type	Integrated
	Model	C3_1 (PCB antenna)
	Manufacturer	peiker Consumer Electronics Evolution GmbH
	Gain	2.5 dBi (customer declaration)
Antenna 2	Type	Integrated
	Model	C3_1 (PCB antenna)
	Manufacturer	peiker Consumer Electronics Evolution GmbH
	Gain	2.5 dBi (customer declaration)
Supply Voltage	V _{NOM}	3.7 VDC (battery)
Operating Temperature	T _{NOM}	25 °C
AC/DC-Adaptor	Model	None
	Vendor	None
	Input	None
	Output	None
Manufacturer	peiker Consumer Electronics Evolution GmbH Gartenstraße 25 61352 Bad Homburg GERMANY	

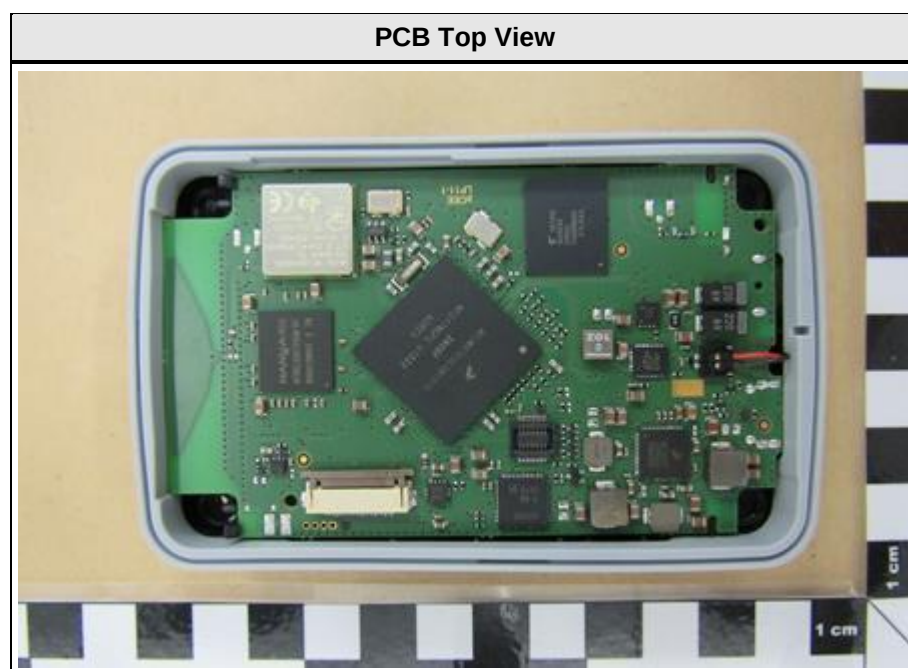
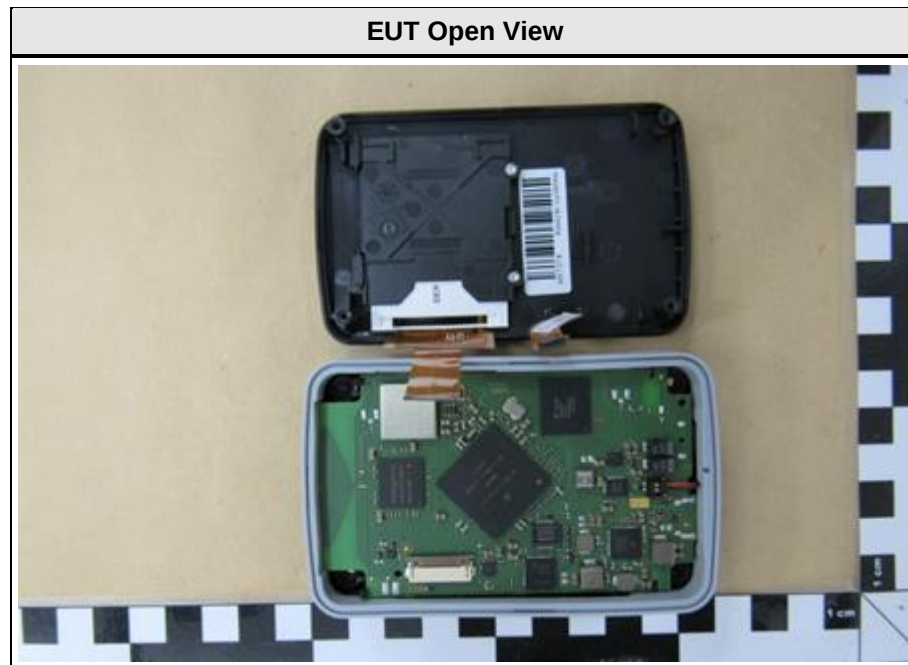
1.1 Photos – Equipment External



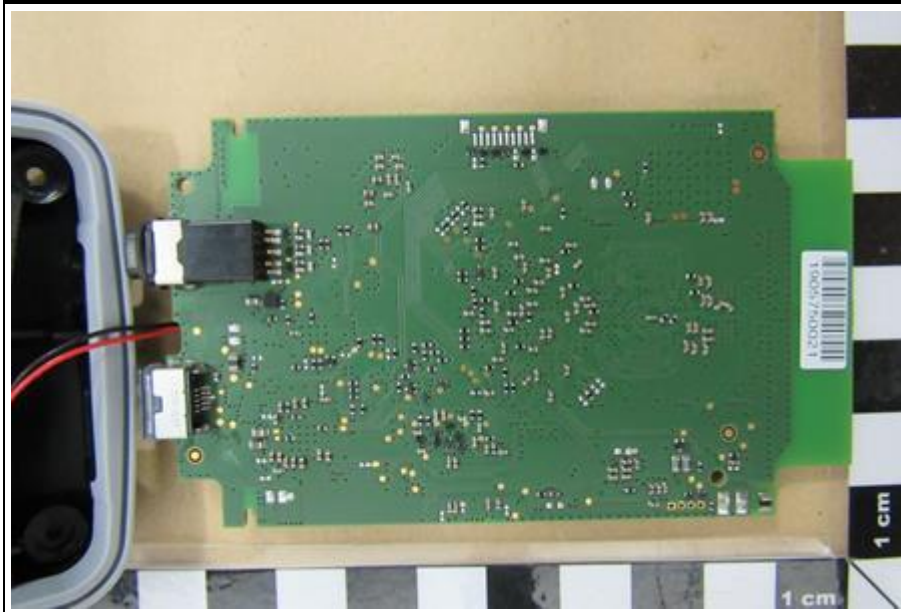
EUT Connector View



1.2 Photos – Equipment Internal

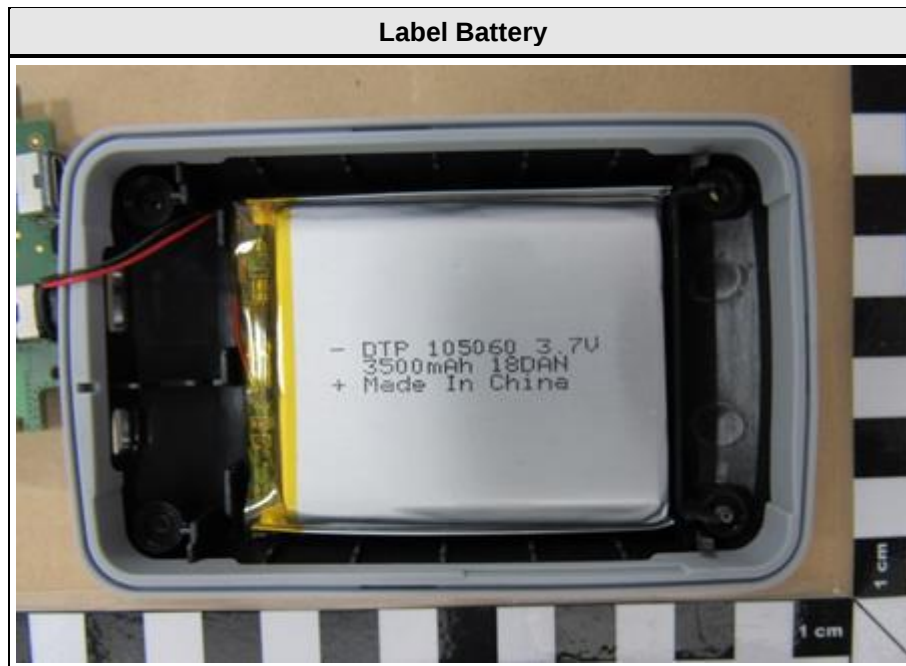


PCB Bottom View

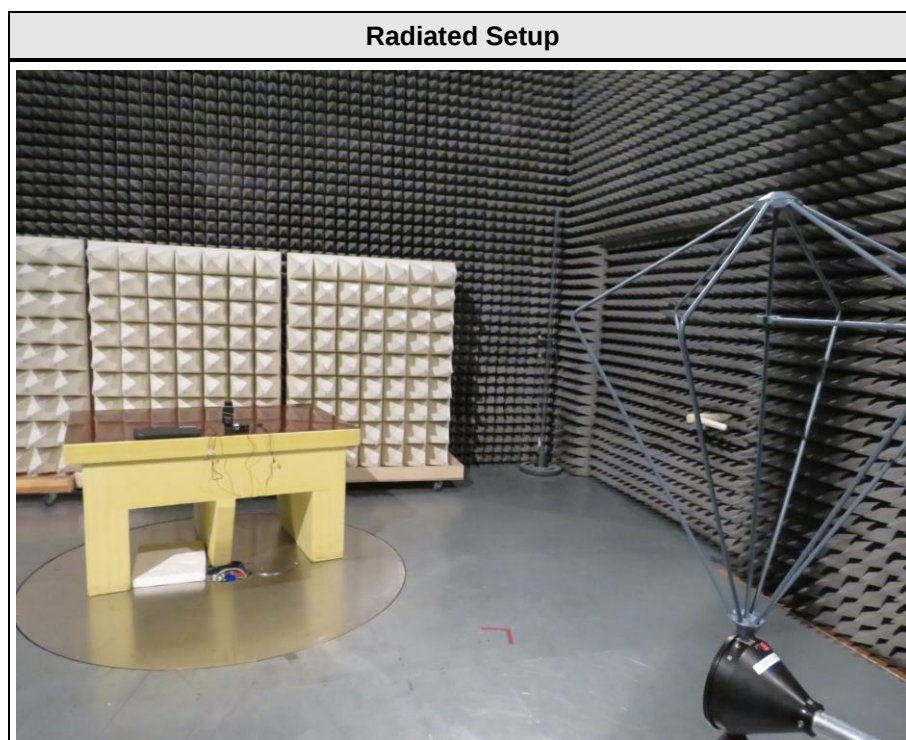
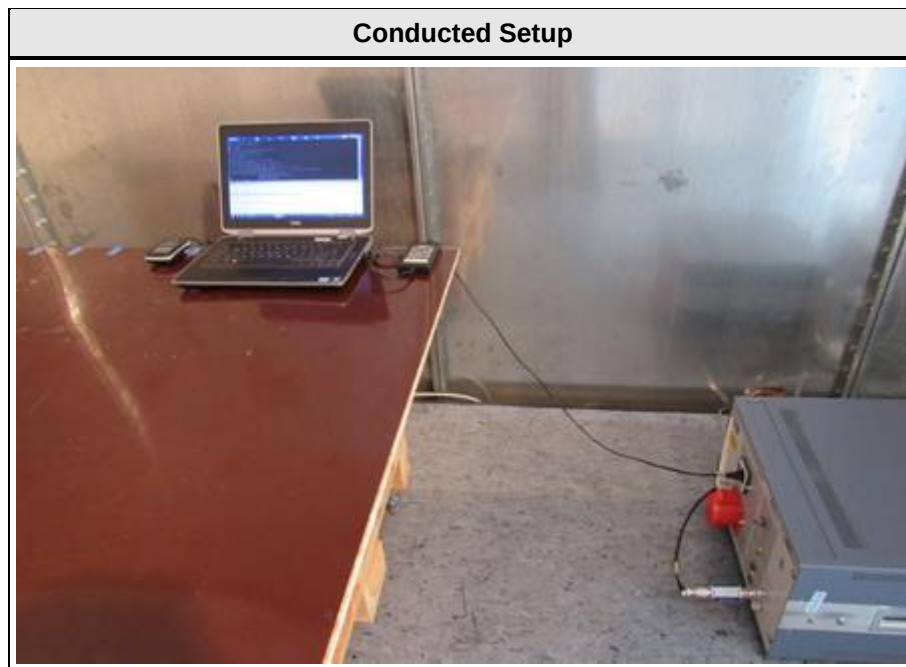


RF Module





1.3 Photos – Test Setup



1.4 Support Equipment

Product Type	Device	Manufacturer	Model	Comment
AE	Laptop	Dell	Latitude E6420	S/N HPJ4R1
AE	Power Supply	Dell	FA65NE0-00	S/N RX929
Description:				
AE	Auxiliary Equipment			
SIM	Simulator			
CBL	Connecting Cable			
SFT	Software			
Comment:				

1.5 Test Modes

Mode	Description
GFSK	Mode = Transmit Modulation = GFSK Spreading = None Duty cycle = 64%
Receive	Mode = Receive
Comment:	

1.6 Test Frequencies

Designator	Mode	Channel	Frequency [MHz]
F1	Tx / Rx	0	2402
F2	Tx / Rx	19	2440
F3	Tx / Rx	39	2480

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:

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

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/m	= 47.5 dBμV/m	:	47.5 dBμV/m - 57.0 dBμV/m	= -9.5 dB

2 Result Summary

FCC 47 CFR Part 15C, ISED RSS-247				
Product Standard Reference	Requirement	Reference Method	Result	Remarks
ISED RSS-Gen, Issue 5 (section 6.6)	Occupied Bandwidth	ANSI C63.10-2013	N/R	Informational only
FCC § 15.247(a)(2) ISED RSS-247, Issue 2 (section 5.2)	6 dB Bandwidth	ANSI C63.10-2013	N/T	
FCC § 15.247(b)(1) ISED RSS-247, Issue 2 (section 5.4)	Maximum peak conducted power	ANSI C63.10-2013	N/T	
FCC § 15.247(e) ISED RSS-247, Issue 2 (section 5.2)	Power spectral density	ANSI C63.10-2013	N/T	
FCC § 15.207 ISED RSS-247, Issue 2 (section 3.1)	AC power line conducted emissions	ANSI C63.10-2013	PASS	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Band edge compliance	ANSI C63.10-2013	N/T	
FCC § 15.247(d) ISED RSS-247, Issue 2 (section 5.5)	Conducted spurious emissions	ANSI C63.10-2013	N/T	
FCC § 15.247(d) FCC § 15.209 ISED RSS-Gen, Issue 5 (section 6.13)	Transmitter radiated spurious emissions	ANSI C63.10-2013	PASS	
ISED RSS-247, Issue 2 (section 3.1)	Receiver radiated spurious emissions	ANSI C63.10-2013	PASS	
Comment:				

Possible Test Case Verdicts	
PASS	Test object does meet the requirements
FAIL	Test object does not meet the requirements
N/T	Required by standard but not tested
N/R	Not required by standard for the test object

3 Test Conditions and Results

3.1 Test Conditions and Results - Occupied bandwidth

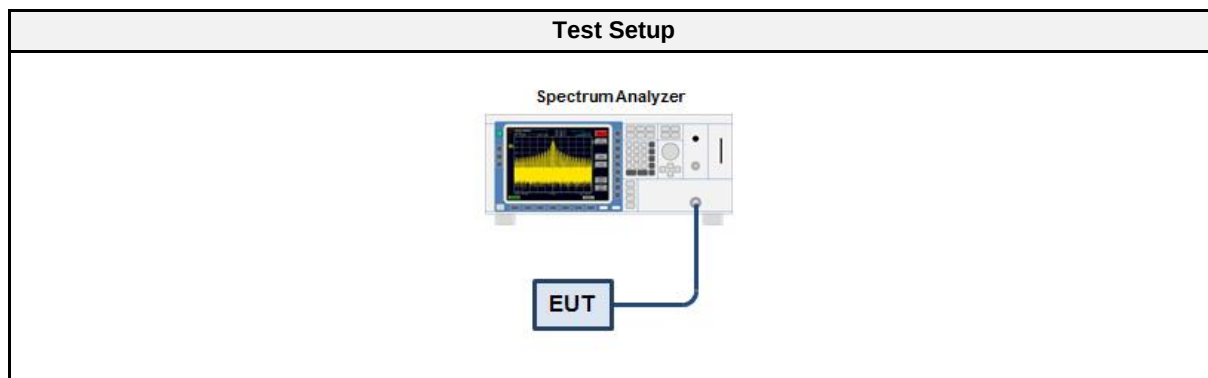
3.1.1 Information

Test Information	
Reference	ISED RSS-Gen, Issue 5 (section 6.6)
Measurement Method	ANSI C63.10 6.9.3
Operator	Wilfried Treffke
Date	2019-04-18

3.1.2 Limits

Limits
None (Informational only)

3.1.3 Setup



3.1.4 Equipment

Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSU 26	EF01407	2018-12	2019-12

3.1.5 Procedure

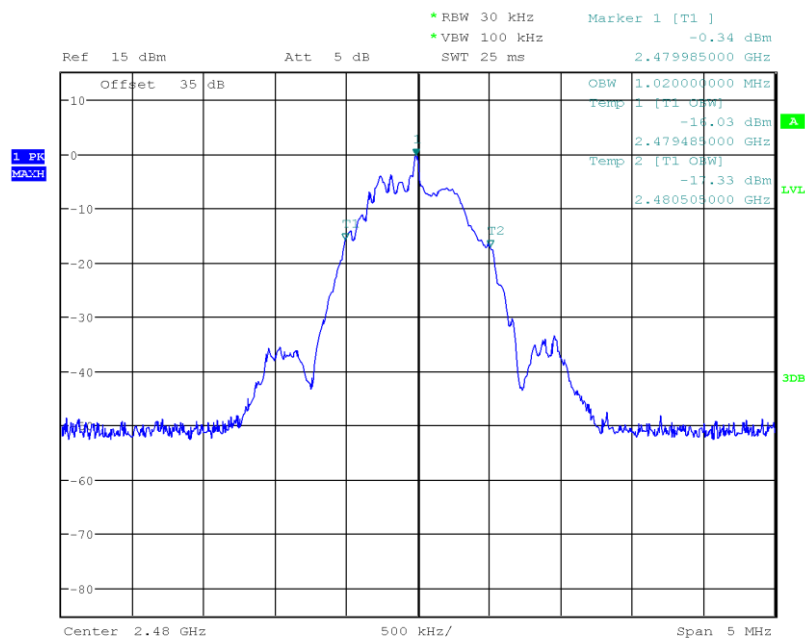
Test Procedure
1. EUT transmitter is activated in test mode under normal conditions 2. The spectrum analyzer is set to peak detection and maximum hold with a span twice the emission spectrum 3. The resolution bandwidth is set to the range of 1 % to 5 % of the occupied bandwidth 4. The occupied bandwidth is measured with the build-in analyzer function

3.1.6 Results

Test Results		
Mode	Frequency [MHz]	Bandwidth [MHz]
GFSK	2480	1.020
comment	max value for occupied bandwidth is recorded	

Occupied Bandwidth

Project Number: G0M-1903-8127
 Applicant: peiker Consumer Electronics Evolution GmbH
 Model Description: Audio Communication Device
 Model: C3
 Test Sample ID: 23476
 Reference Standards: FCC 15.247, RSS-247
 Reference Method: ANSI C63.10:2013, Section 6.9.3
 Operational Mode: GFSK, Channel: 39, 2480 MHz
 Operating Conditions: Tnom/Vnom
 Operator: Wilfried Treffke
 Test Site: Eurofins Product Service GmbH
 Test Date: 2019-04-18
 Occupied Bandwidth [MHz]: 1.020



Date: 18.APR.2019 09:13:33

3.2 Test Conditions and Results - AC powerline conducted emissions

3.2.1 Information

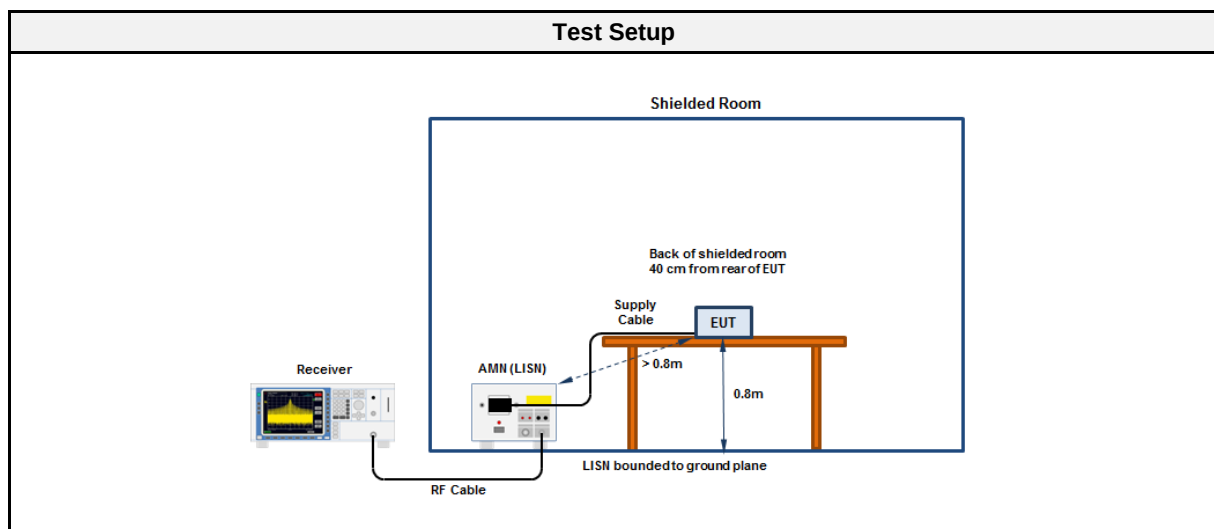
Test Information	
Reference	FCC § 15.207; ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.2
Operator	Wilfried Treffke
Date	2019-04-17

3.2.2 Limits

Limits		
Frequency [MHz]	Quasi-Peak [dBμV]	Average [dBμV]
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5	56	46
5 - 30	60	50

* Limit decreases linearly with the logarithm of the frequency

3.2.3 Setup



3.2.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2016.1.10

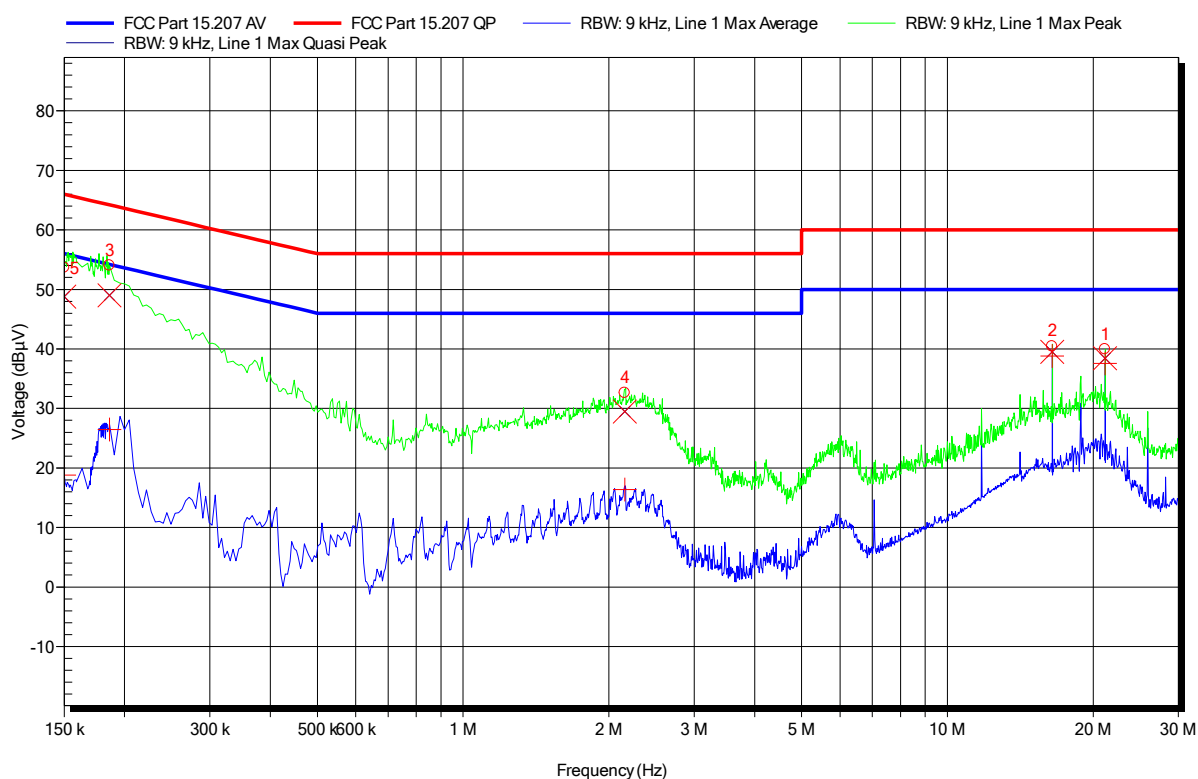
Test Equipment					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
EMI Receiver	R&S	ESU 26	EF00241	2017-07	2019-07
LISN	R&S	ESH3-Z5	EF00036	2017-01	2019-07

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

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 22°C, Unom: 120 VAC
 LISN: ESH3-Z5 L
 Mode: BLE; 2440 MHz
 Test Date: 2019-04-17
 Note:

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Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	21.169 MHz	38.46 dBμV	60 dBμV	-21.54 dB	Pass
2	16.465 MHz	39.49 dBμV	60 dBμV	-20.51 dB	Pass
3	186 kHz	49 dBμV	64.21 dBμV	-15.21 dB	Pass
4	2.157 MHz	29.49 dBμV	56 dBμV	-26.51 dB	Pass
5	150 kHz	48.81 dBμV	66 dBμV	-17.19 dB	Pass

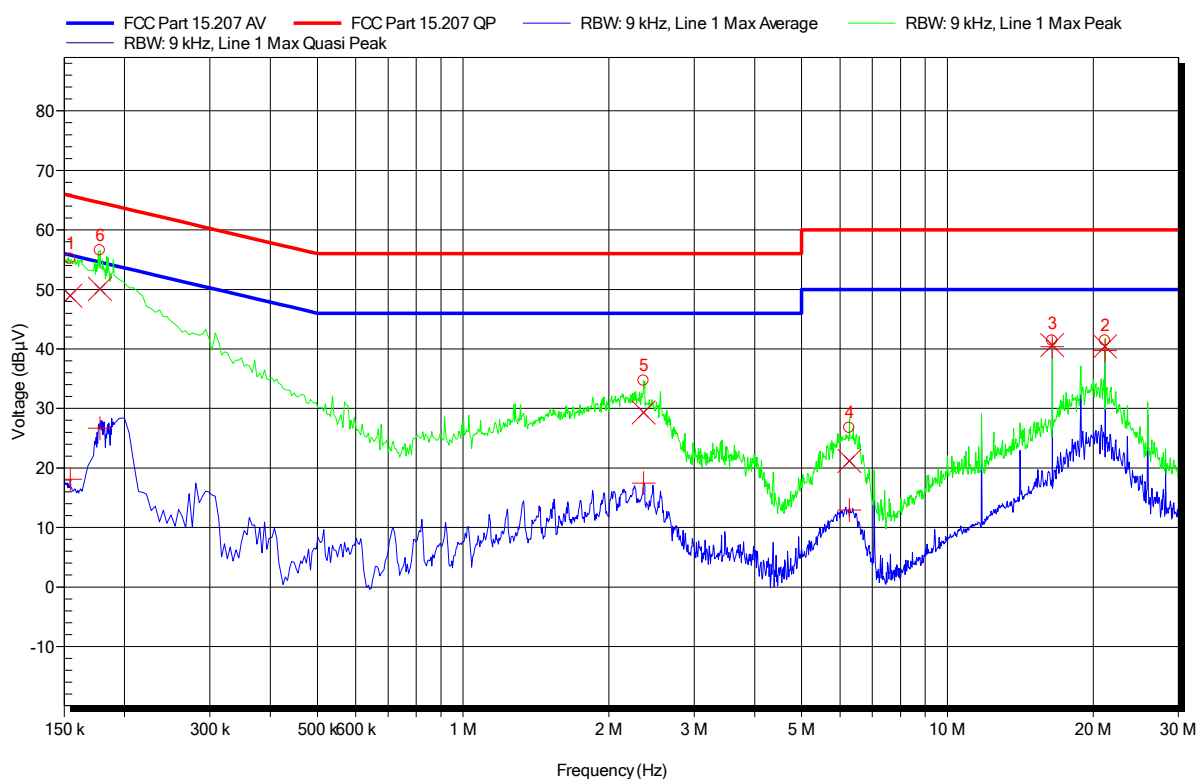
Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	21.169 MHz	37.58 dBμV	50 dBμV	-12.42 dB	Pass
2	16.465 MHz	38.8 dBμV	50 dBμV	-11.2 dB	Pass
3	186 kHz	26.48 dBμV	54.21 dBμV	-27.73 dB	Pass
4	2.157 MHz	16.35 dBμV	46 dBμV	-29.65 dB	Pass
5	150 kHz	18.83 dBμV	56 dBμV	-37.17 dB	Pass

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

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 22°C, Unom: 120 VAC
 LISN: ESH3-Z5 N
 Mode: BLE; 2440 MHz
 Test Date: 2019-04-17
 Note:

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Peak Number	Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status
1	154.5 kHz	48.93 dBμV	65.75 dBμV	-16.83 dB	Pass
2	21.169 MHz	40.44 dBμV	60 dBμV	-19.56 dB	Pass
3	16.465 MHz	40.64 dBμV	60 dBμV	-19.36 dB	Pass
4	6.27 MHz	21.16 dBμV	60 dBμV	-38.84 dB	Pass
5	2.359 MHz	29.32 dBμV	56 dBμV	-26.68 dB	Pass
6	177.9 kHz	50.06 dBμV	64.58 dBμV	-14.52 dB	Pass

Peak Number	Frequency	Average	Average Limit	Average Difference	Average Status
1	154.5 kHz	18.1 dBμV	55.75 dBμV	-37.66 dB	Pass
2	21.169 MHz	39.71 dBμV	50 dBμV	-10.29 dB	Pass
3	16.465 MHz	40.35 dBμV	50 dBμV	-9.65 dB	Pass
4	6.27 MHz	12.91 dBμV	50 dBμV	-37.09 dB	Pass
5	2.359 MHz	17.44 dBμV	46 dBμV	-28.56 dB	Pass
6	177.9 kHz	26.67 dBμV	54.58 dBμV	-27.91 dB	Pass

3.3 Test Conditions and Results - Transmitter radiated emissions

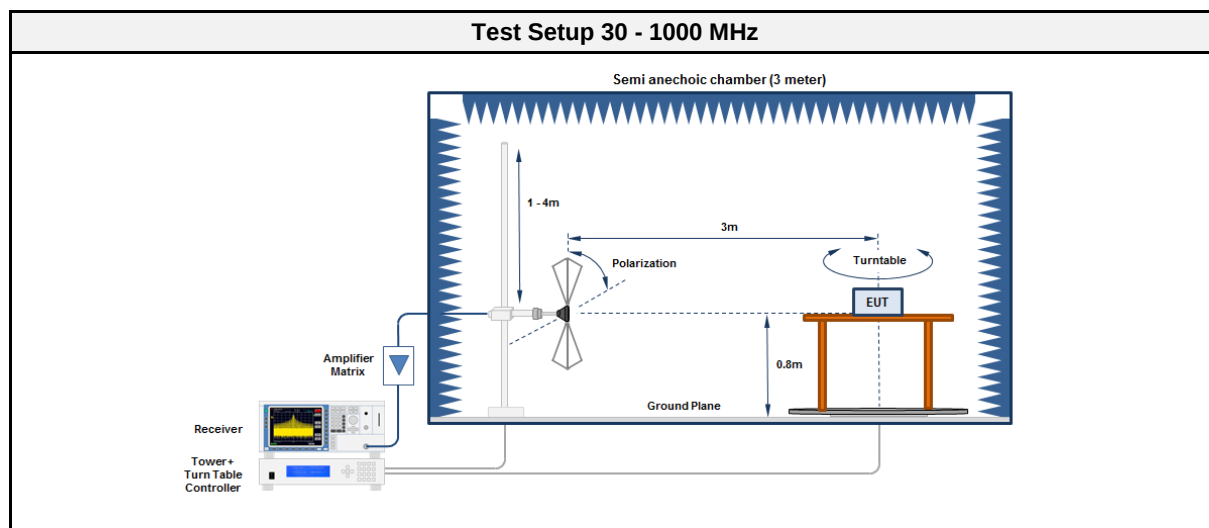
3.3.1 Information

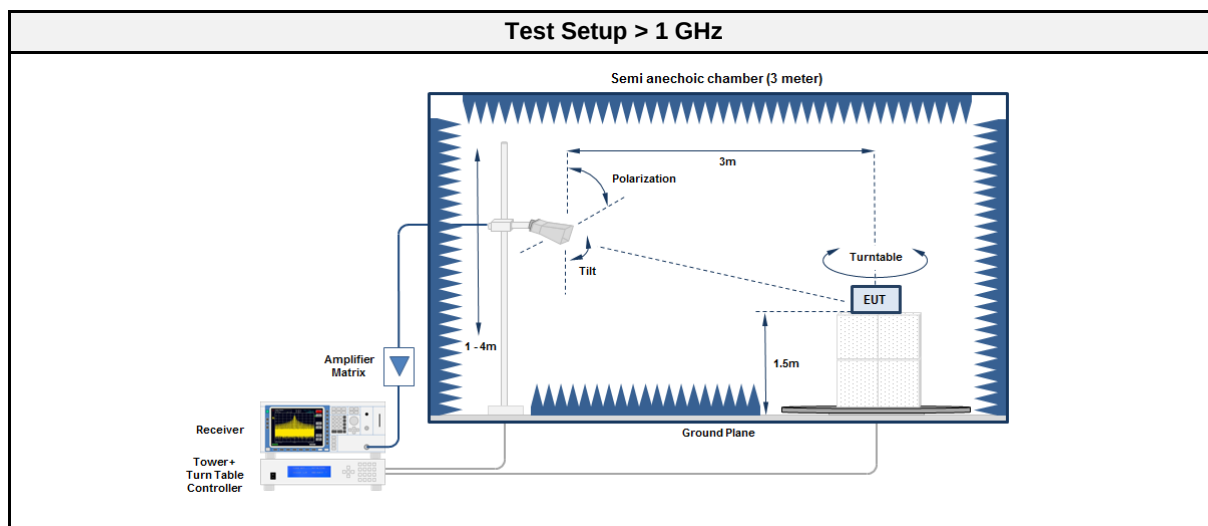
Test Information	
Reference	FCC § 15.247(d); FCC § 15.209; ISSED RSS-Gen, Issue 5 (section 6.13)
Measurement Method	ANSI C63.10 6.4, 6.5, 6.6, 11.12
Operator	Wilfried Treffke
Date	2019-04-11

3.3.2 Limits

Limits			
Frequency [MHz]	Detector	Field strength [$\mu\text{V/m}$]	Measurement distance [m]
0.009 - 0.09	Average	$2400/F[\text{kHz}]$	300
0.09 - 0.110	Quasi-Peak	$2400/F[\text{kHz}]$	300
0.110 - 0.490	Average	$2400/F[\text{kHz}]$	300
0.490 - 1.705	Quasi-Peak	$24000/F[\text{kHz}]$	30
1.705 - 30.0	Quasi-Peak	30	30
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.3.3 Setup





3.3.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2015.2.4

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2018-07	2021-07
Measurement Receiver	R&S	ESU 26	EF00887	2018-08	2019-08
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2018-08	2019-08
Antenna	R&S	HK 116	EF00030	2016-04	2019-04
Antenna	R&S	HL 223	EF00187	2016-05	2019-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2018-07	2021-07
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2018-08	2019-08
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2016-09	2019-09
Antenna	Amplifier Research	AT4560	EF01152	2018-10	2019-10

3.3.5 Procedure

Test Procedure < 30 MHz	
1.	EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2.	EUT set to test mode
3.	The EUT is rotated through 360°
4.	The emissions are measured with peak detector and max hold
5.	All significant emissions are measured again using the corresponding final detector

Test Procedure 30 - 1000 MHz	
1.	EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground
2.	EUT set to test mode
3.	The receiver is set to peak detection with max hold
4.	The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5.	All significant emissions are measured again using the corresponding final detector

Test Procedure > 1 GHz	
1.	EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground
2.	EUT set to test mode
3.	The receiver is set to peak detection with max hold
4.	The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5.	All significant emissions are measured again using the corresponding final detector

3.3.6 Results

Test Results						
Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2402	240.217	29.69	pk	hor	46.00	-16.31
2440	2389	48.45	pk	hor	74.00	-25.55
2440	2389	25.84	RMS	hor	54.00	-28.16
2440	2490.8	46.06	pk	hor	74.00	-27.94
2440	2490.8	23.42	RMS	hor	54.00	-30.58
2440	7321	42.87	pk	ver	74.00	-31.13
2480	2483.6	52.60	pk	hor	74.00	-21.40
2480	2483.6	40.20	RMS	hor	54.00	-13.80

3.4 Test Conditions and Results - Receiver radiated emissions

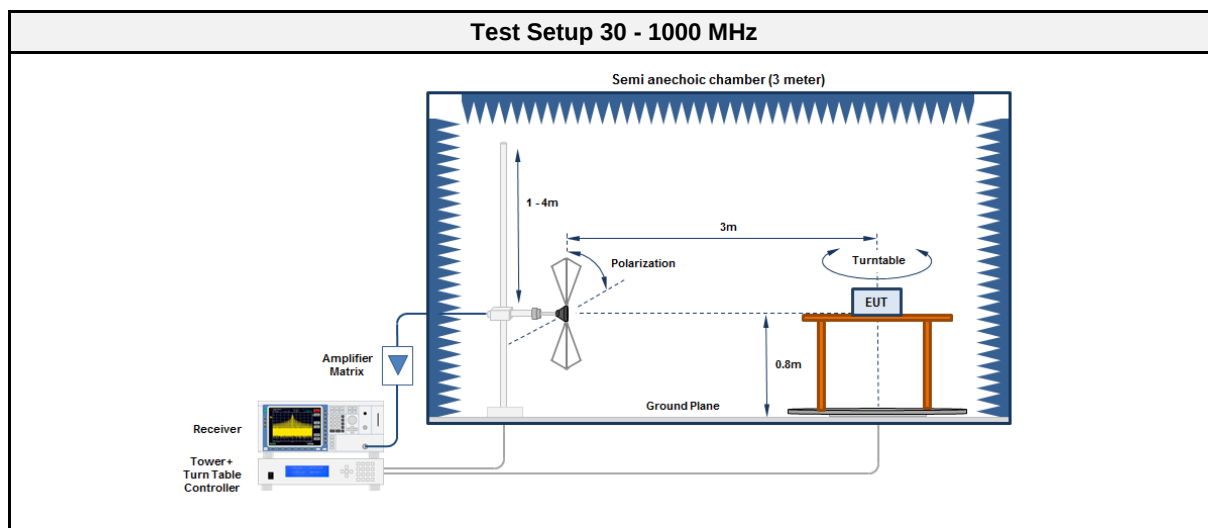
3.4.1 Information

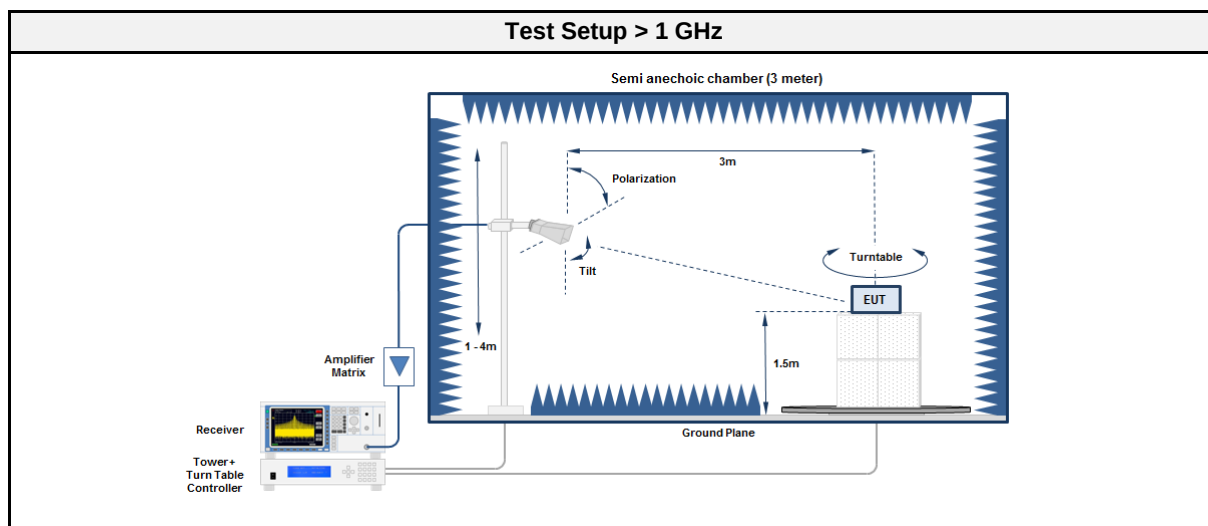
Test Information	
Reference	ISED RSS-247, Issue 2 (section 3.1)
Measurement Method	ANSI C63.10 6.5, 6.6, 11.12
Operator	Wilfried Treffke
Date	2019-04-12

3.4.2 Limits

Limits			
Frequency [MHz]	Detector	Field strength [dB μ V/m]	Measurement distance [m]
30 - 88	Quasi-Peak	100	3
88 - 216	Quasi-Peak	150	3
216 - 960	Quasi-Peak	200	3
960 - 1000	Quasi-Peak	500	3
>1000	Average	500	3

3.4.3 Setup





3.4.4 Equipment

Test Software			
Description	Manufacturer	Name	Version
EMC Software	DARE Instruments	RadiMation	2015.2.4

Test Equipment 30 - 1000 MHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2018-07	2021-07
Measurement Receiver	R&S	ESU 26	EF00887	2018-08	2019-08
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2018-08	2019-08
Antenna	R&S	HK 116	EF00030	2016-04	2019-04
Antenna	R&S	HL 223	EF00187	2016-05	2019-05

Test Equipment > 1 GHz					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Anechoic Chamber	Frankonia	AC1	EF00062	2018-07	2021-07
Measurement Receiver	Agilent	N9038A-526/WXP	EF01070	2018-08	2019-08
Antenna	Schwarzbeck	BBHA 9120D	EF00018	2016-09	2019-09

3.4.5 Procedure

Test Procedure 30 - 1000 MHz	
1. EUT is placed on a non conducting support at the center of a turn table 0.8 m above the ground 2. EUT set to test mode 3. The receiver is set to peak detection with max hold 4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m 5. All significant emissions are measured again using the corresponding final detector	

Test Procedure > 1 GHz

1. EUT is placed on a non conducting support at the center of a turn table 1.5 m above the ground
2. EUT set to test mode
3. The receiver is set to peak detection with max hold
4. The EUT is rotated through 360° and the height of the antenna is varied from 1 m to 4 m
5. All significant emissions are measured again using the corresponding final detector

3.4.6 Results

Test Results

Channel [MHz]	Emission [MHz]	Level [dBμV/m]	Det.	Pol.	Limit [dBμV/m]	Margin [dB]
2440	234.474	35.44	pk	hor	46.00	-10.56
2440	234.474	27.38	qpk	hor	46.00	-18.62
2440	533.022	31.43	pk	hor	46.00	-14.57
2440	533.022	30.14	qpk	hor	46.00	-15.86
2440	533.333	30.58	pk	ver	46.00	-15.42
2440	850	33.97	pk	ver	46.00	-12.03
2440	2438	36.87	pk	hor	53.98	-17.11
2440	3731	35.86	pk	hor	53.98	-18.12
2440	3736	36.15	pk	ver	53.98	-17.83

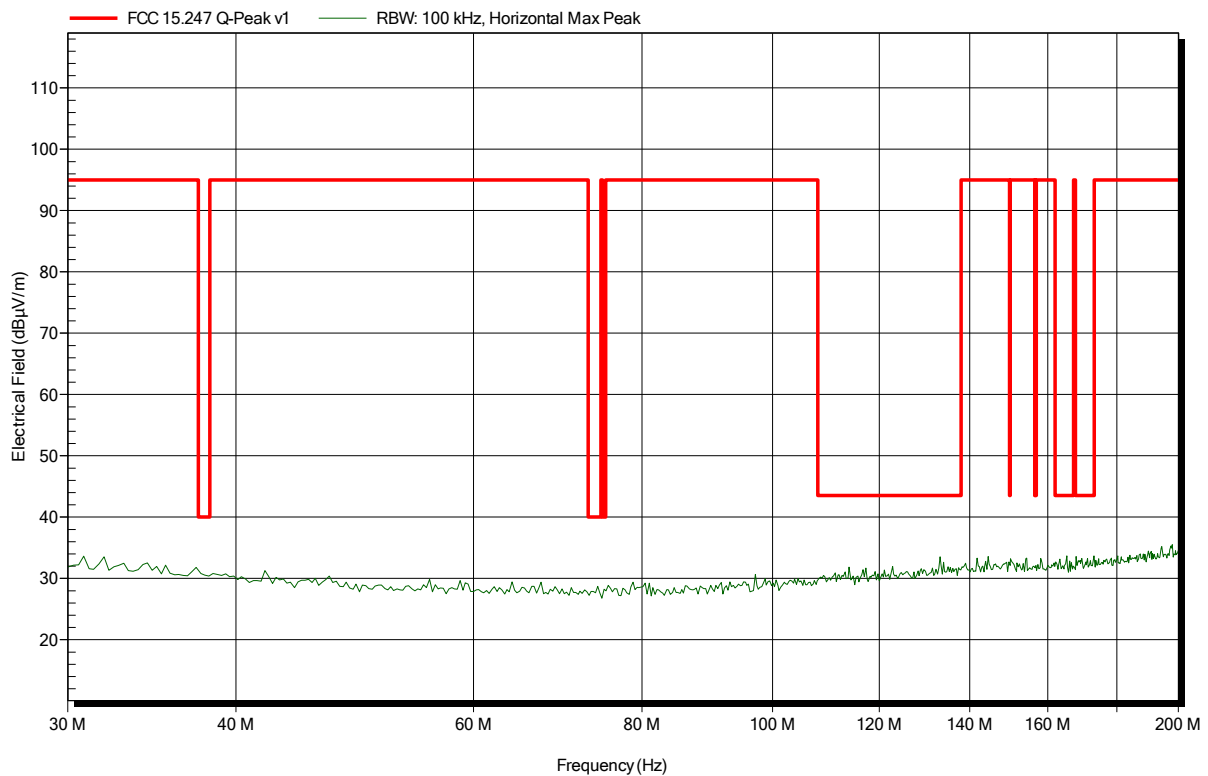
ANNEX A Transmitter spurious emissions

Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: TX; BLE; 2402 MHz
 Test Date: 2019-04-11
 Note:

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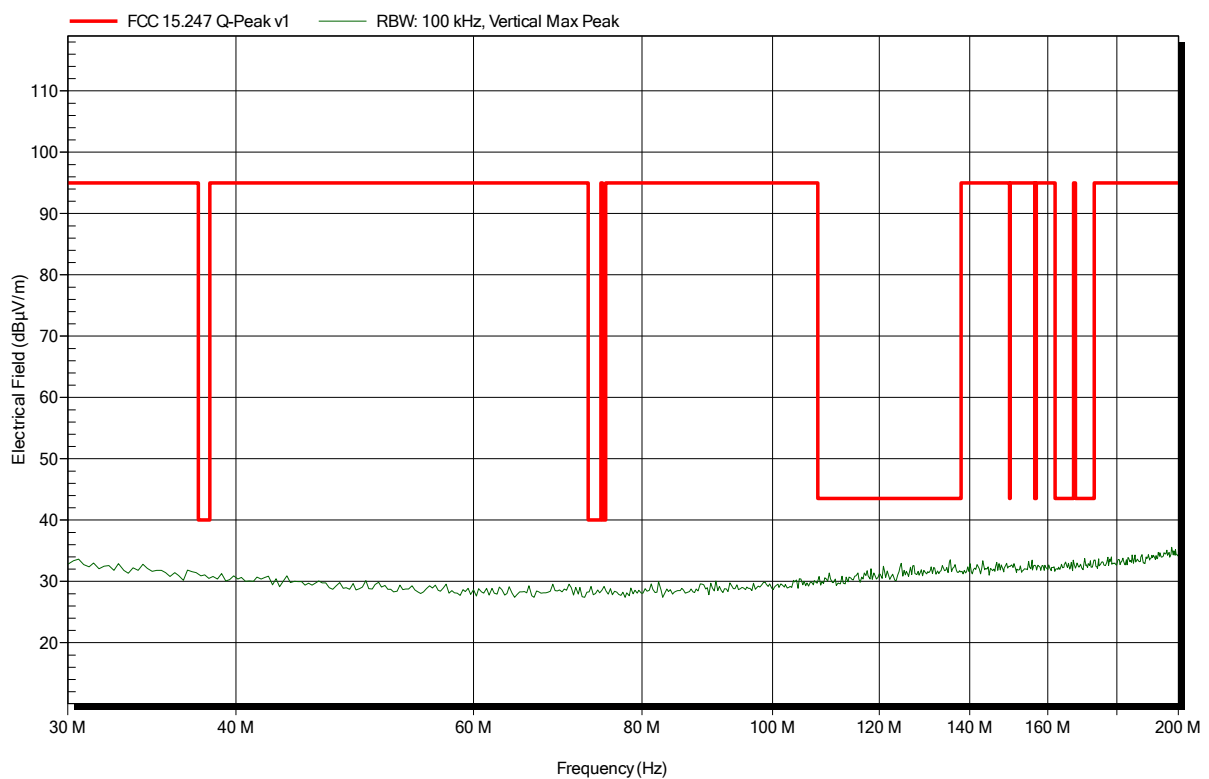


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Rohde & Schwarz HK 116, Vertical
Measurement distance: 3 m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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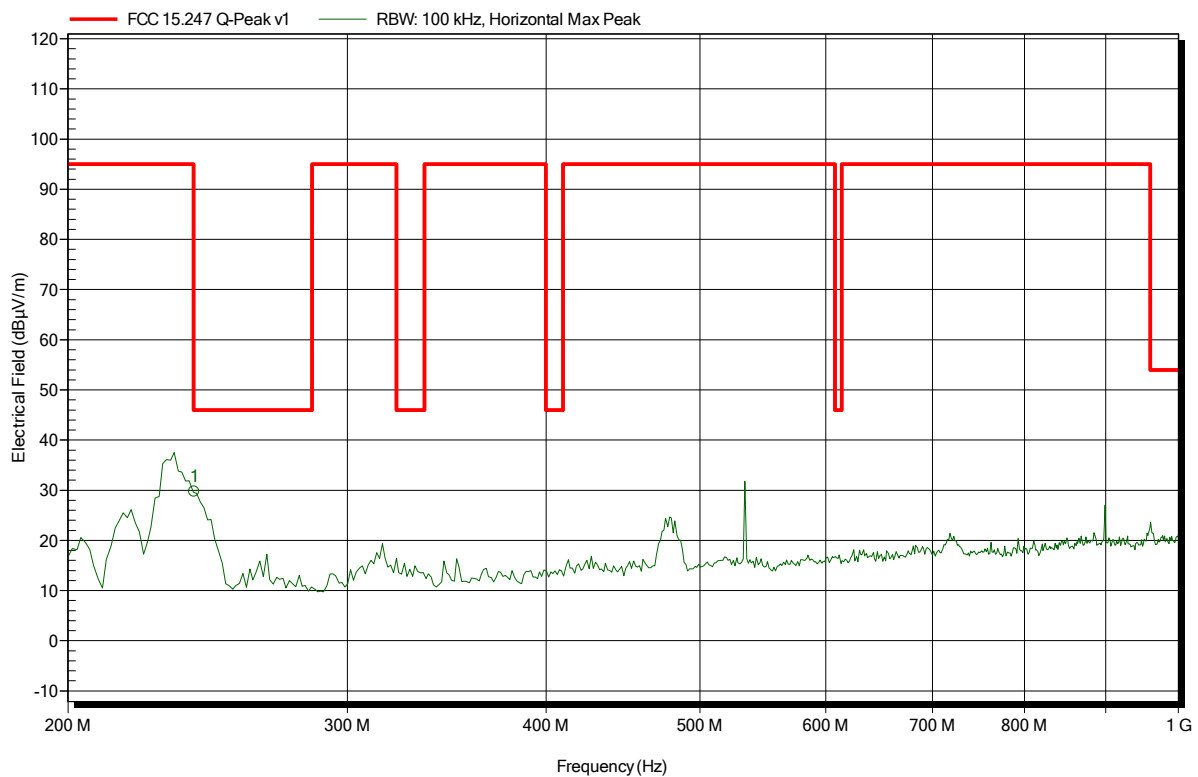


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Rohde & Schwarz HL 223, Horizontal
Measurement distance: 3 m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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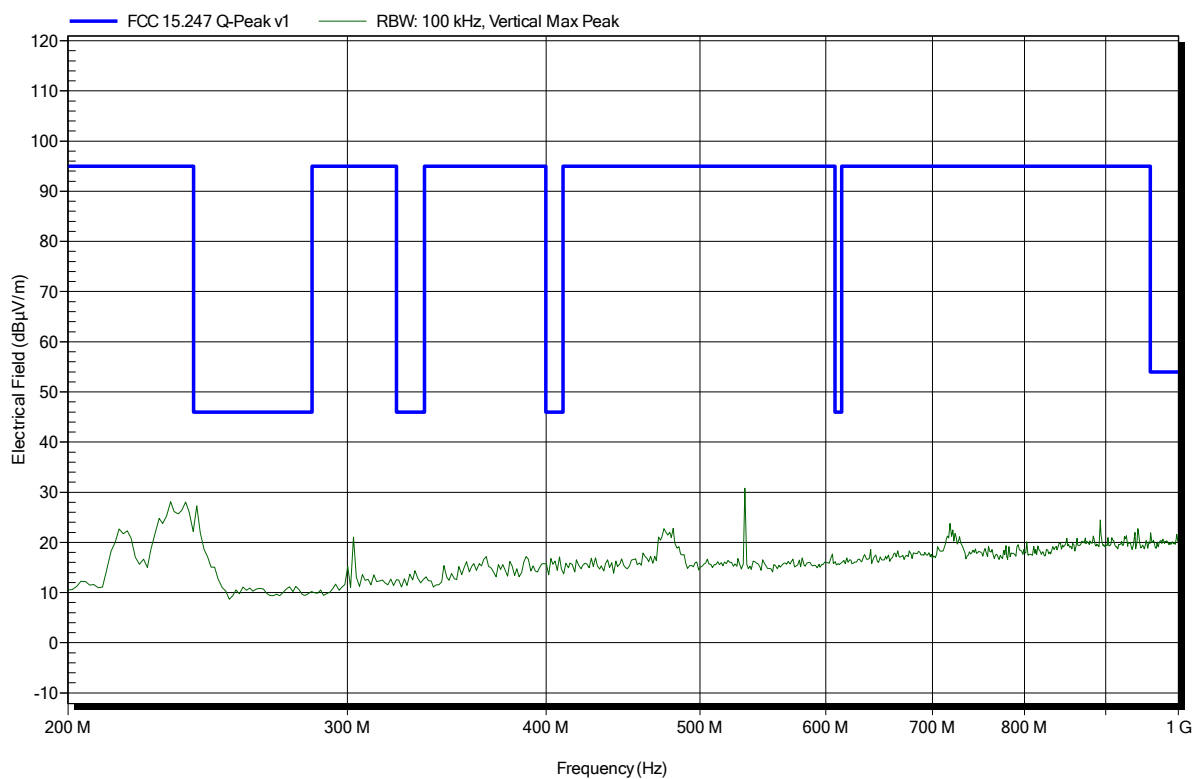


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Rohde & Schwarz HL 223, Vertical
Measurement distance: 3 m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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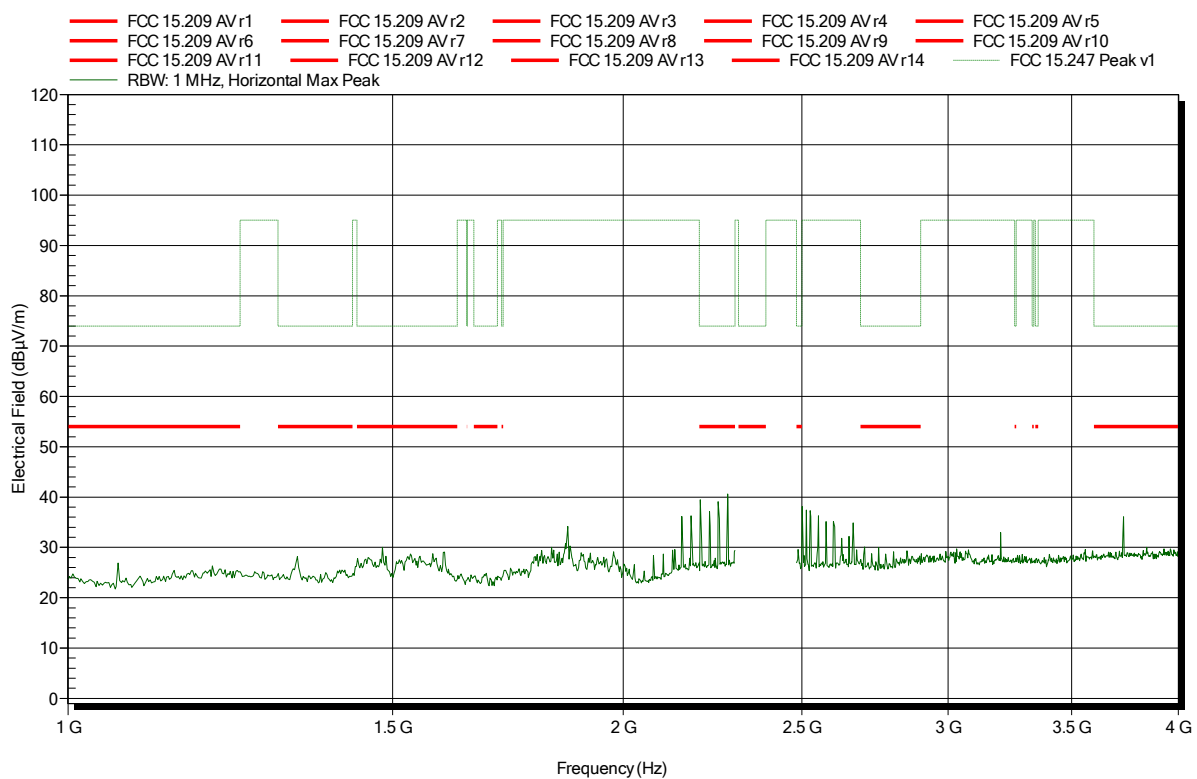


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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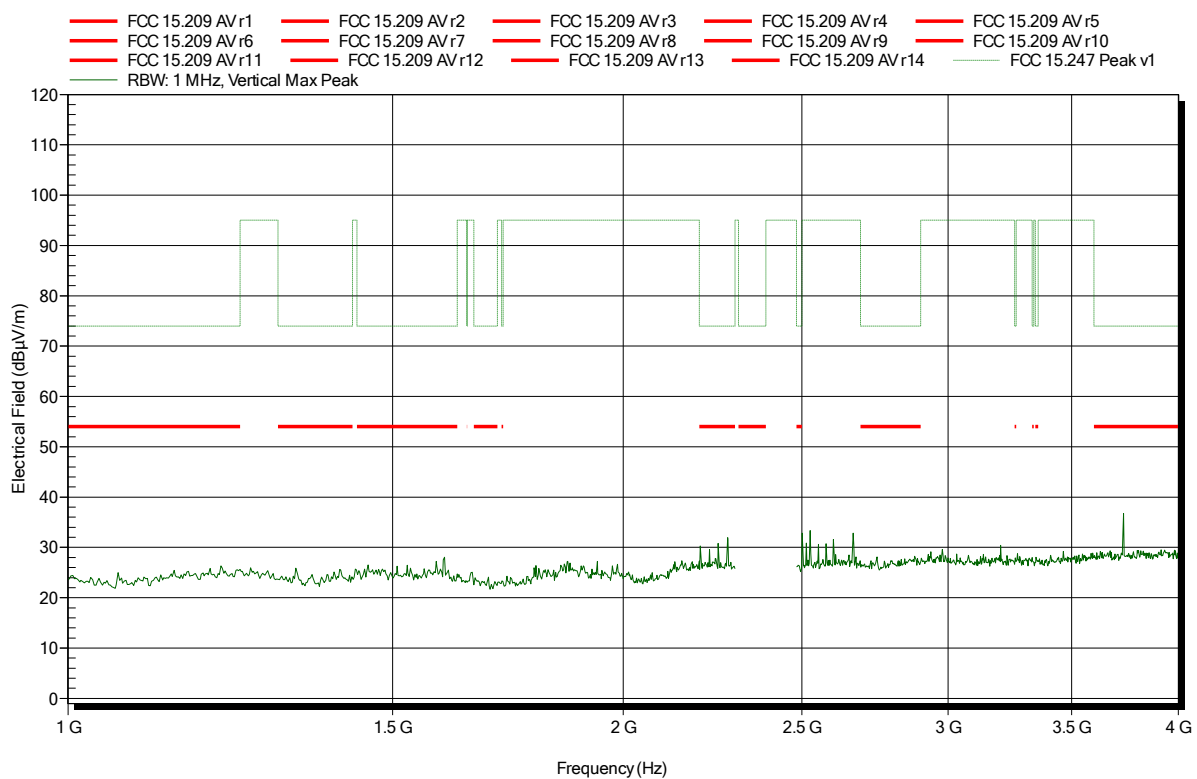


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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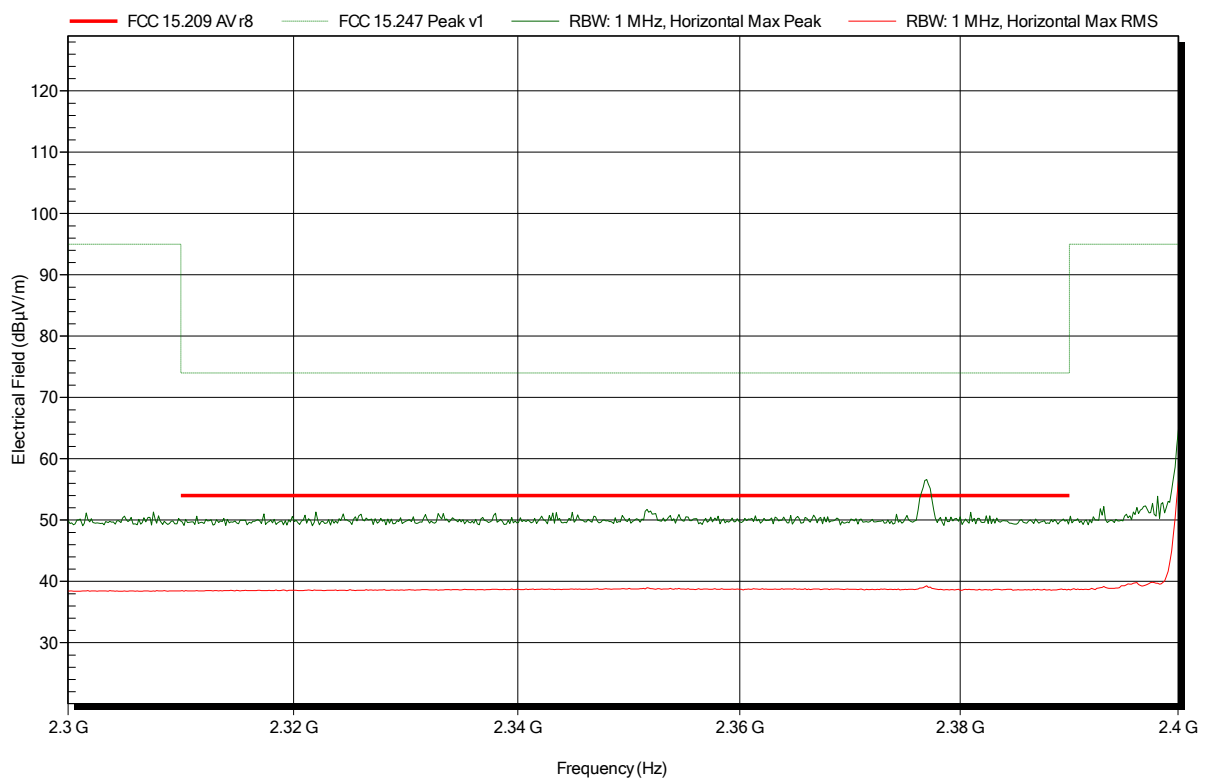


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note: lower bandedge

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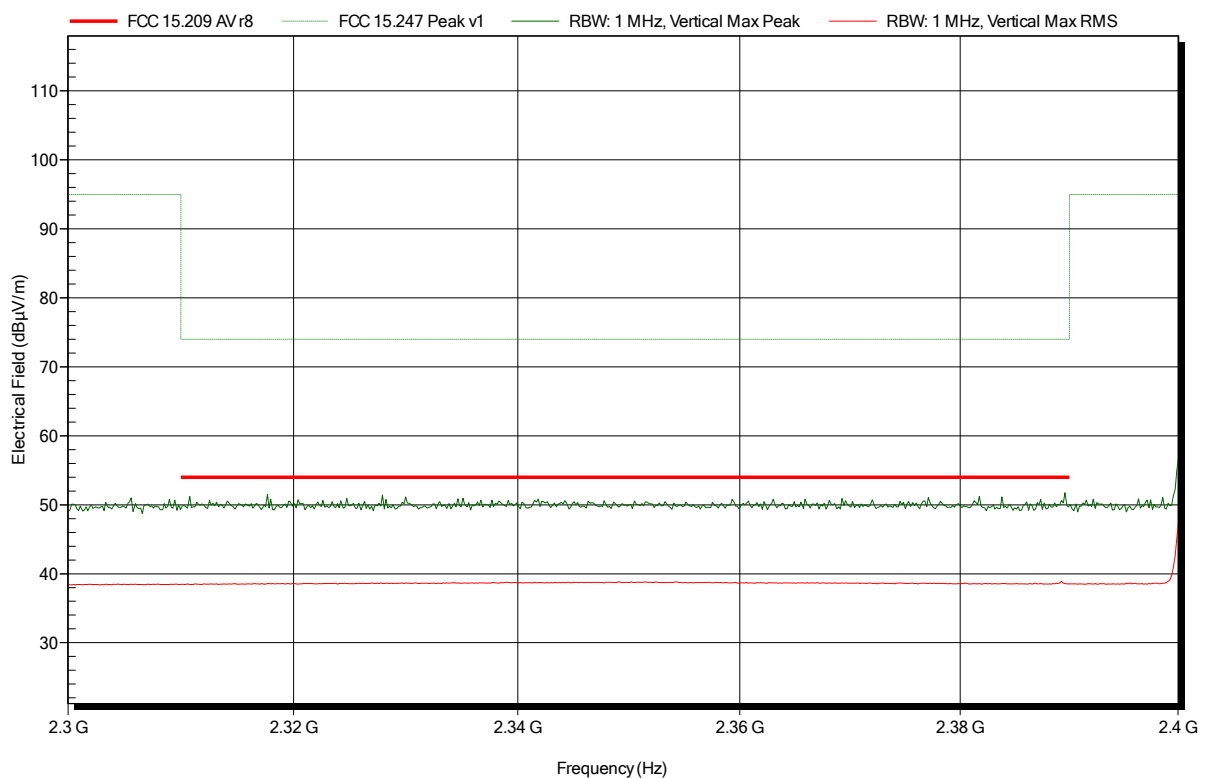


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BLE; 2402 MHz
 Test Date: 2019-04-11
 Note: lower bandedge

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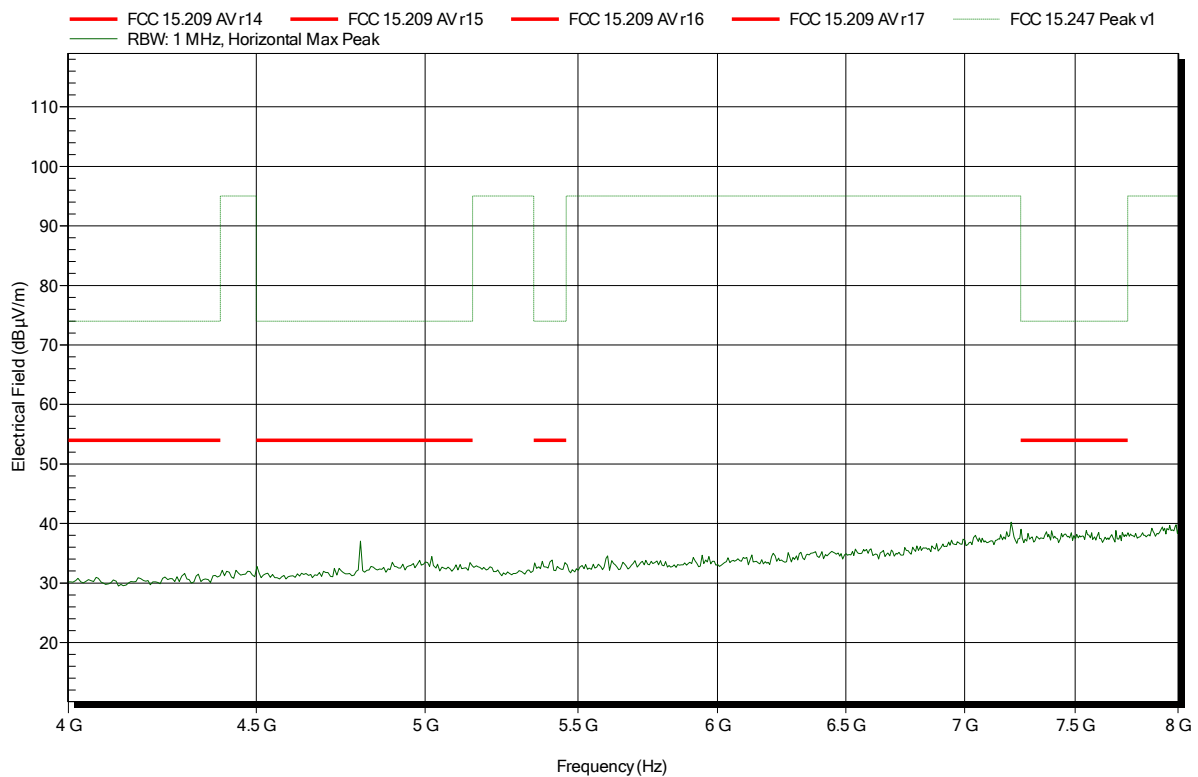


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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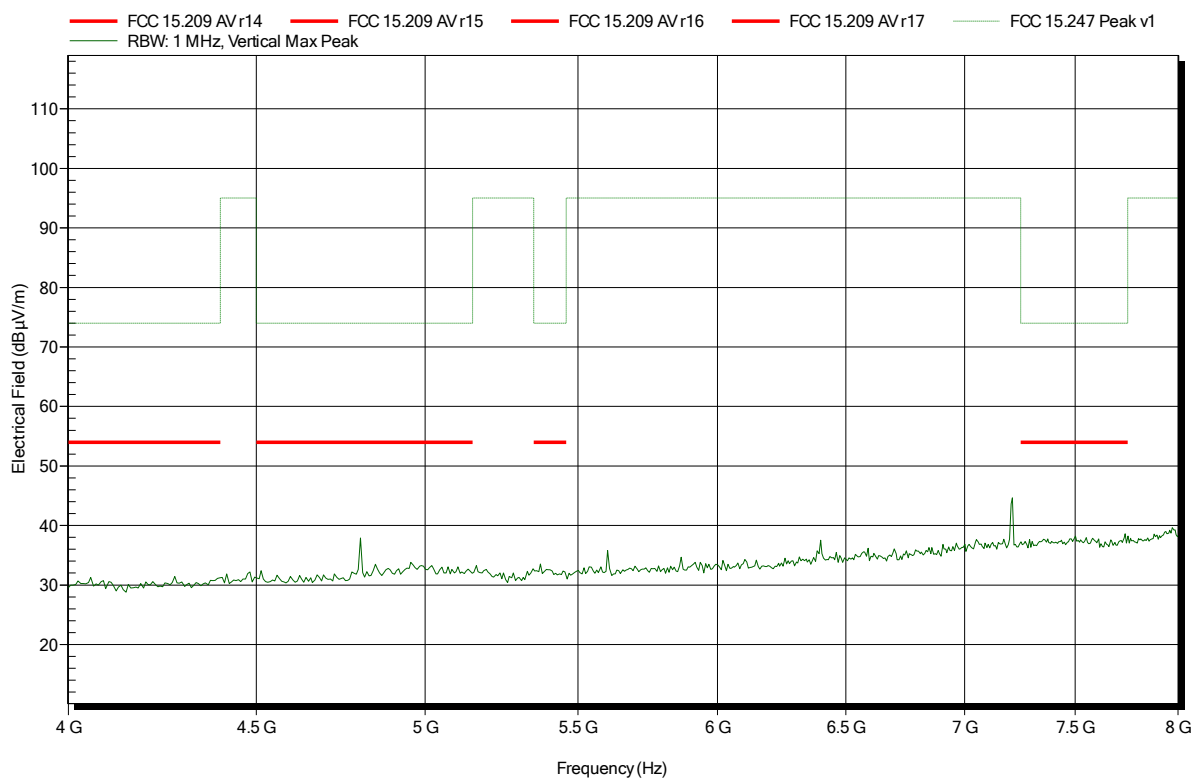


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BLE; 2402 MHz
 Test Date: 2019-04-11
 Note:

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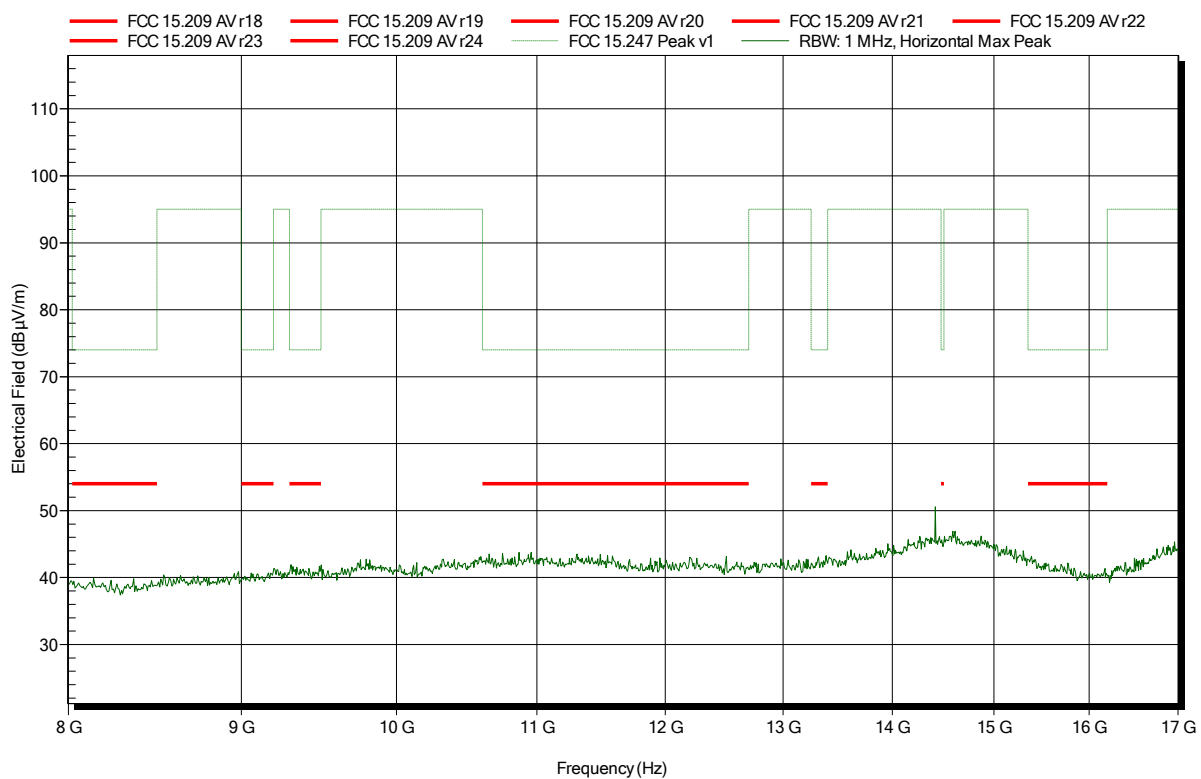


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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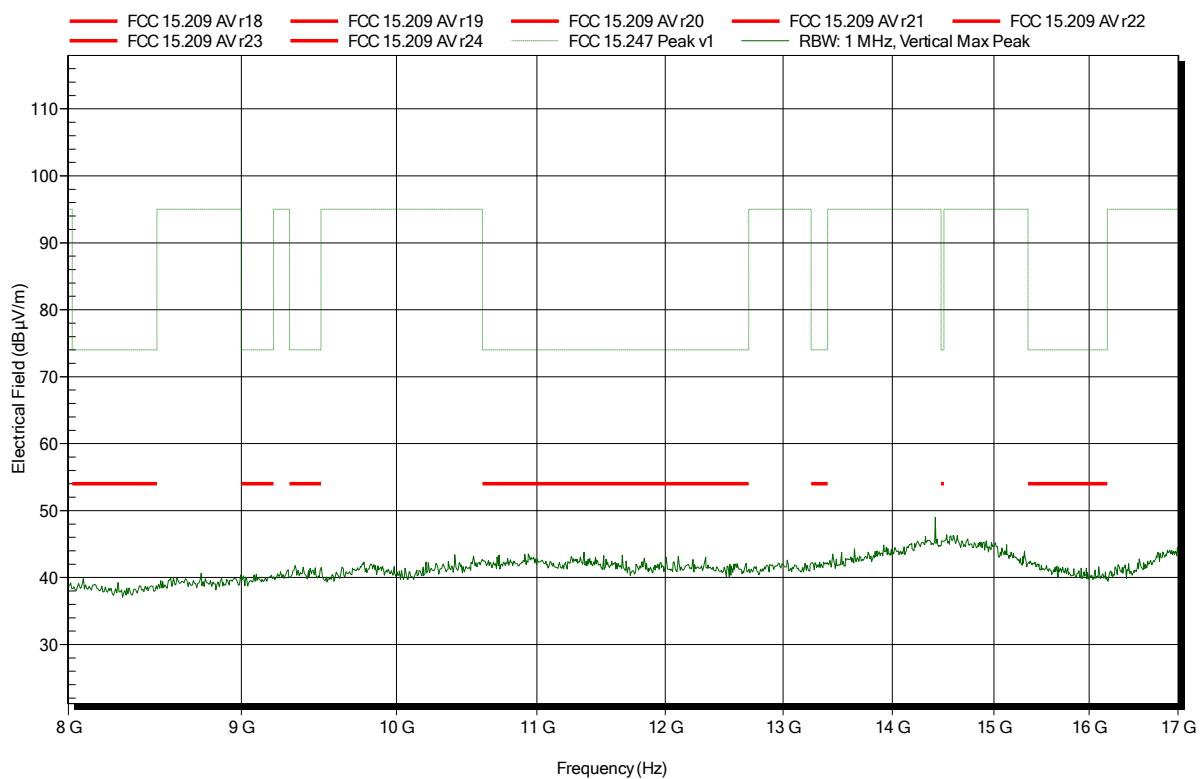


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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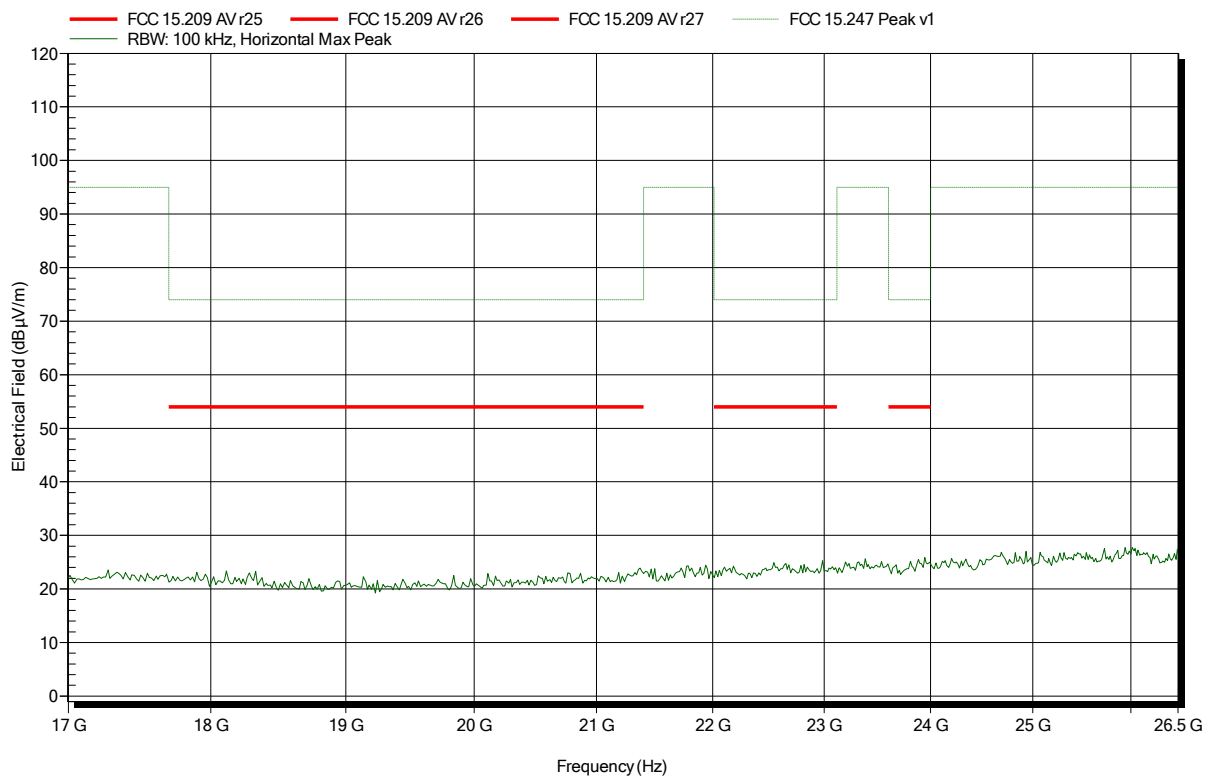


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Amplifier Research AT4560, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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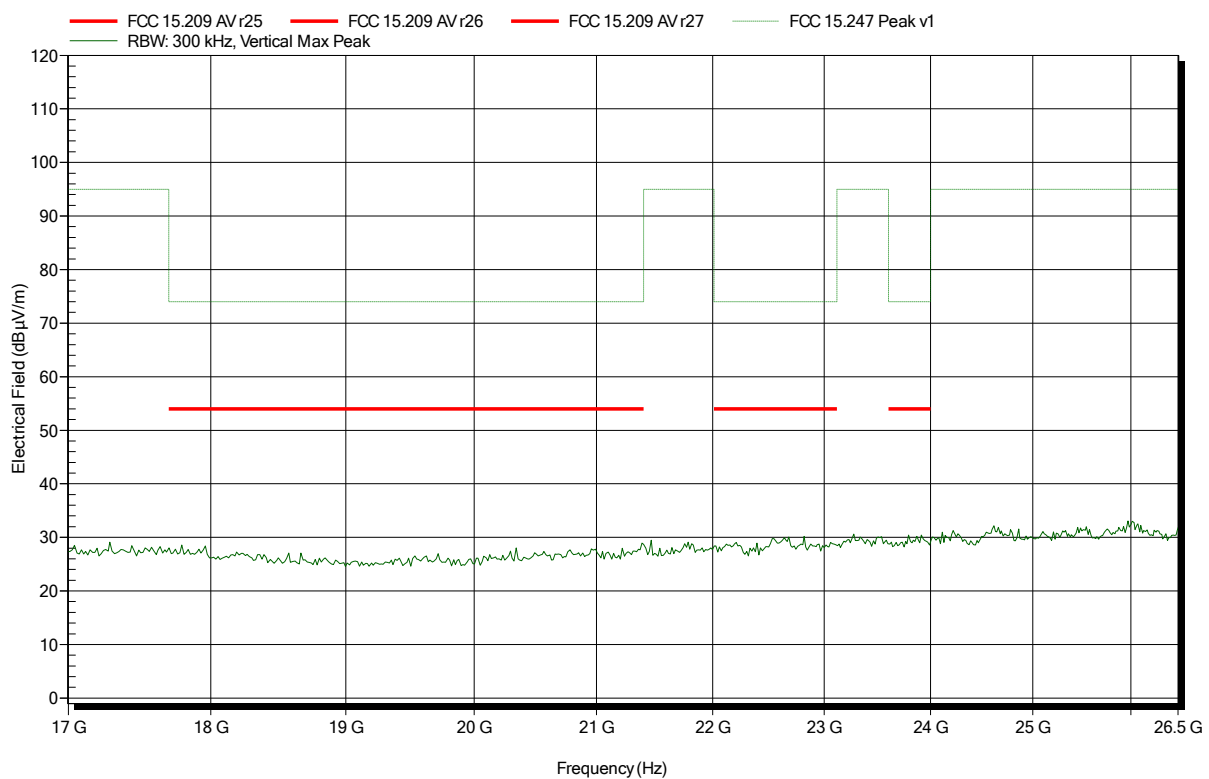


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Amplifier Research AT4560, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2402 MHz
Test Date: 2019-04-11
Note:

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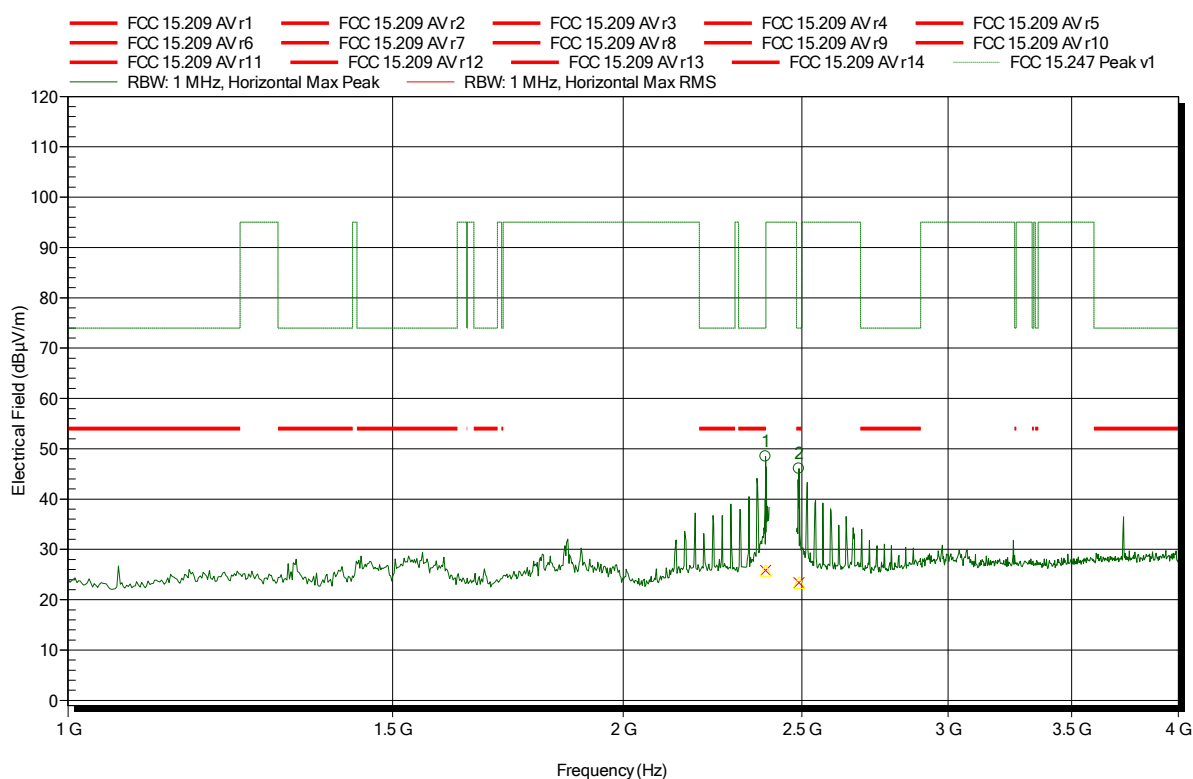


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BLE; 2440 MHz
 Test Date: 2019-04-11
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.389 GHz	48.45 dBµV/m	74 dBµV/m	-25.55 dB	Pass
2.4908 GHz	46.06 dBµV/m	74 dBµV/m	-27.94 dB	Pass

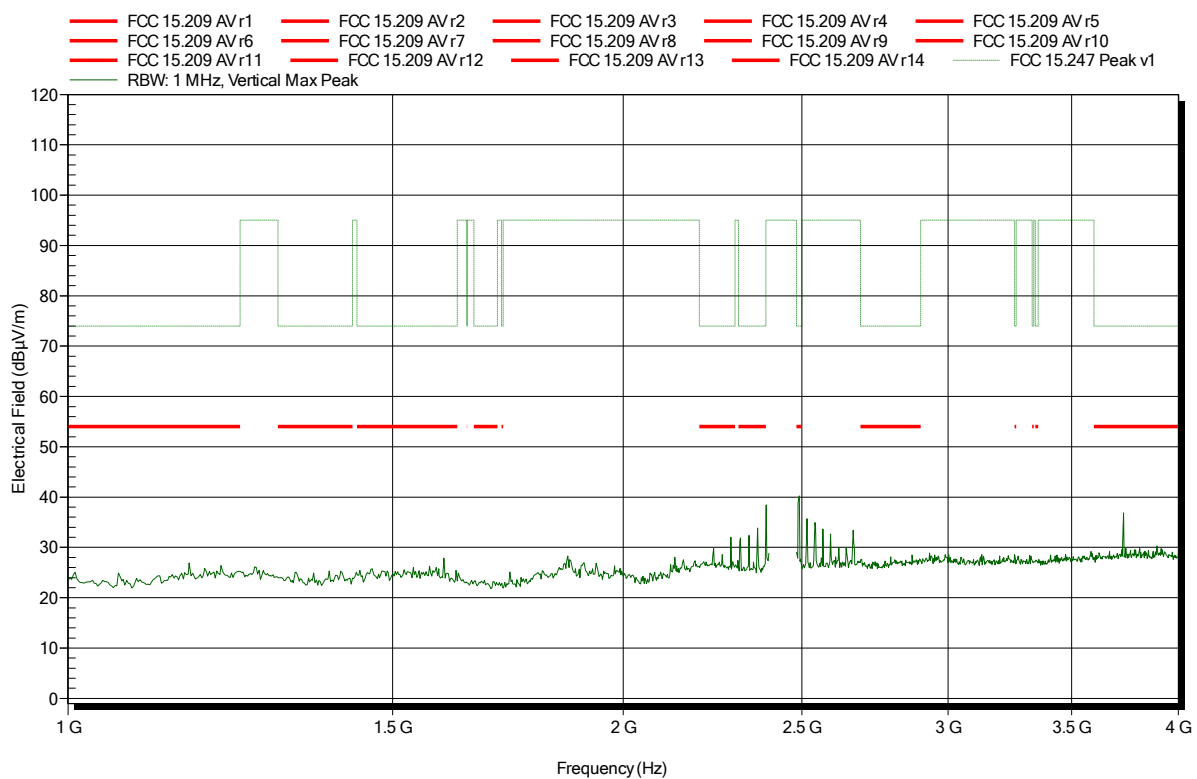
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.389 GHz	25.84 dBµV/m	54 dBµV/m	-28.16 dB	Pass
2.4908 GHz	23.42 dBµV/m	54 dBµV/m	-30.58 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2440 MHz
Test Date: 2019-04-11
Note:

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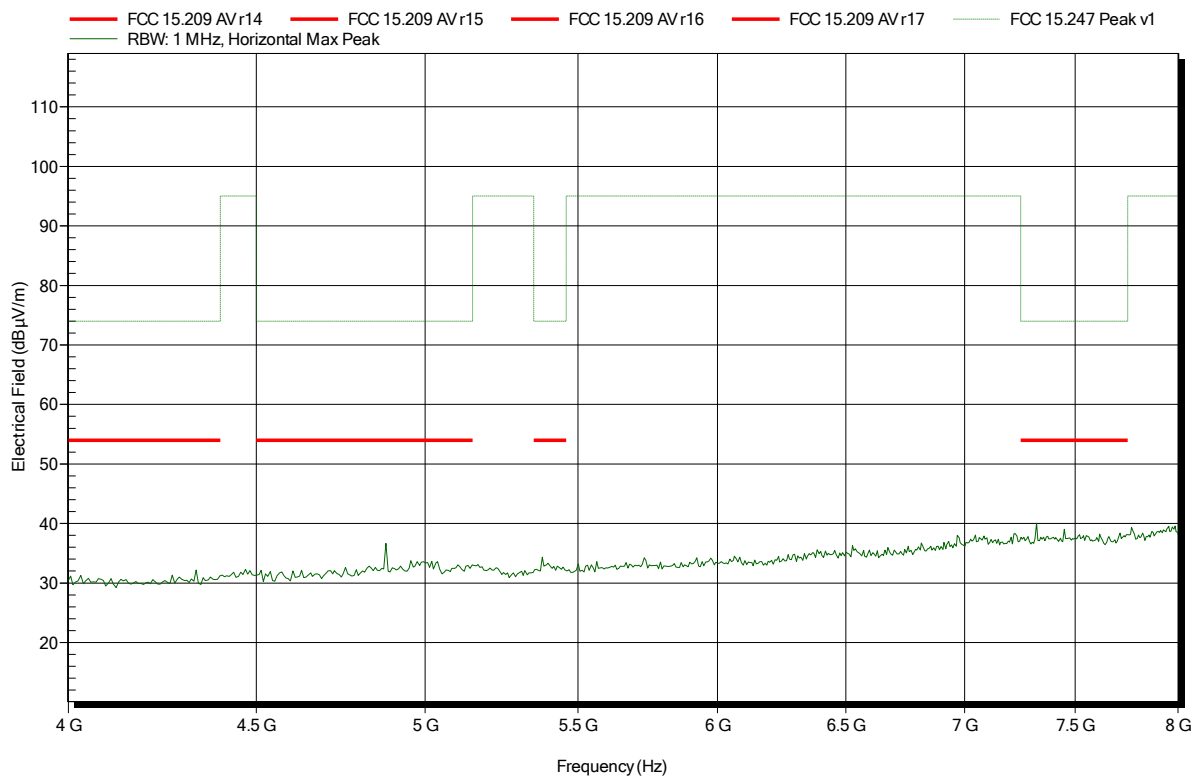


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BLE; 2440 MHz
 Test Date: 2019-04-11
 Note:

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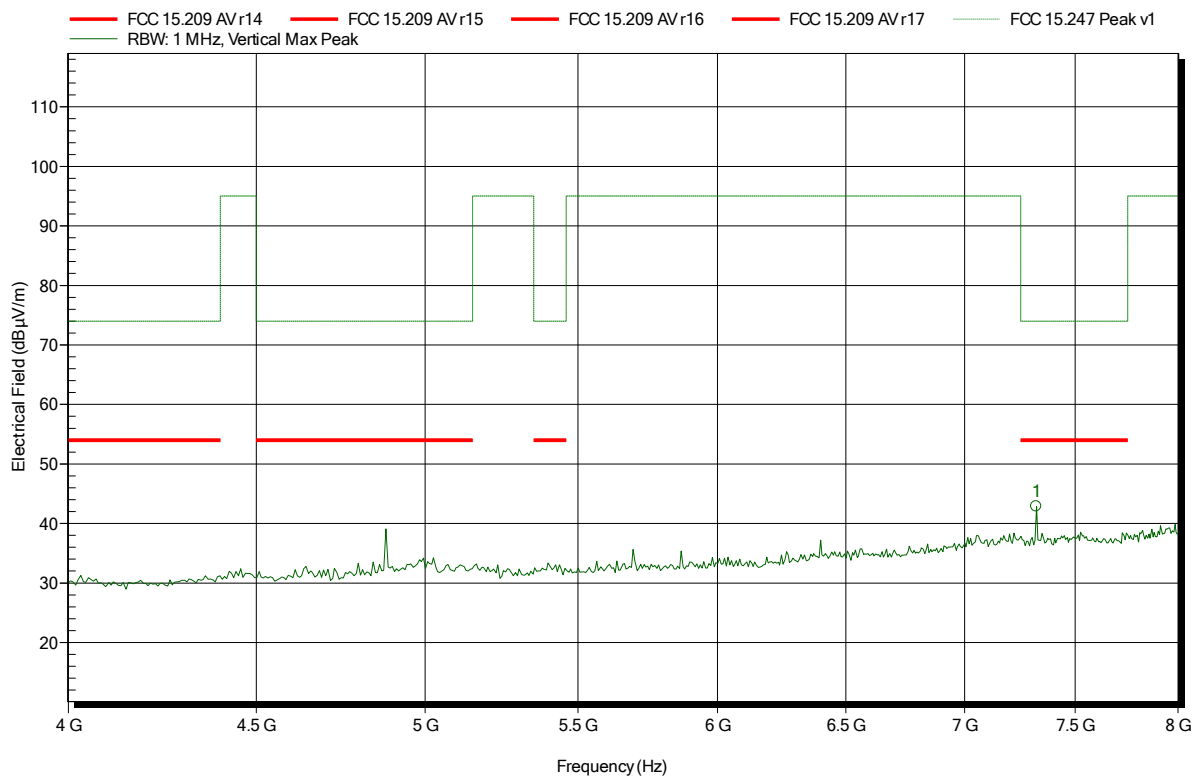


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BLE; 2440 MHz
 Test Date: 2019-04-11
 Note:

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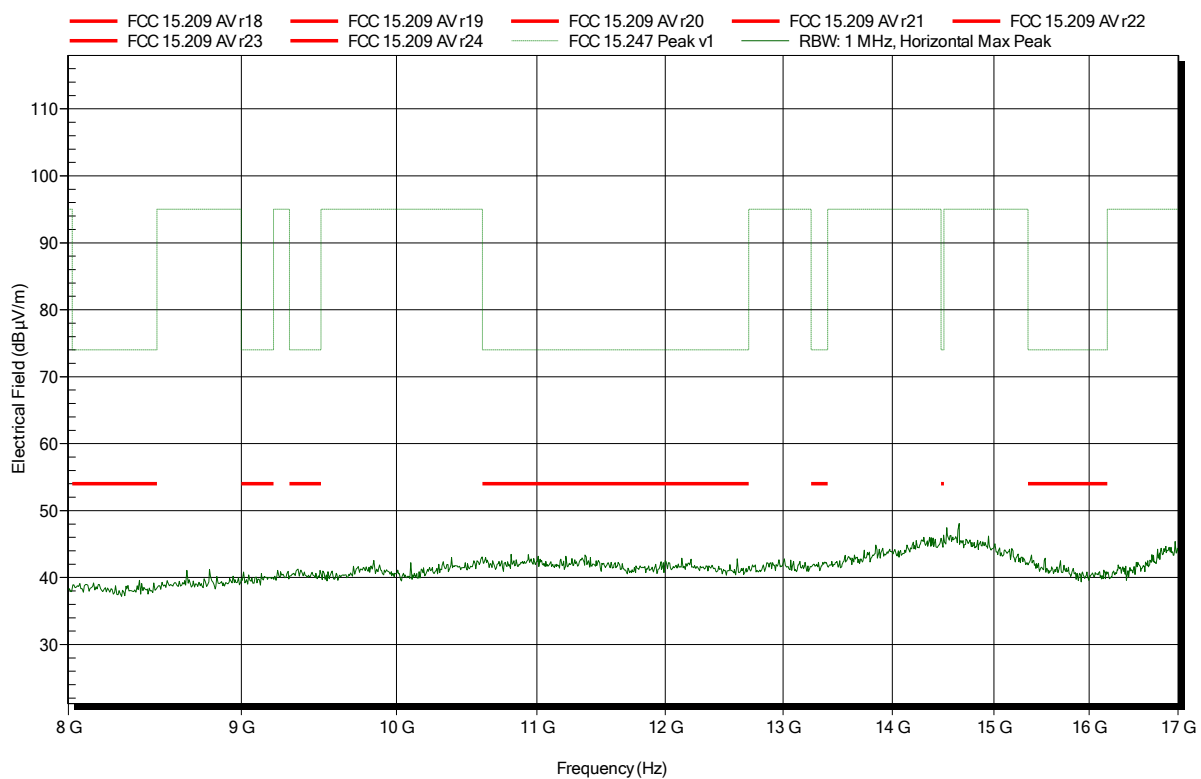
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
7.321 GHz	42.87 dBµV/m	74 dBµV/m	-31.13 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2440 MHz
Test Date: 2019-04-11
Note:

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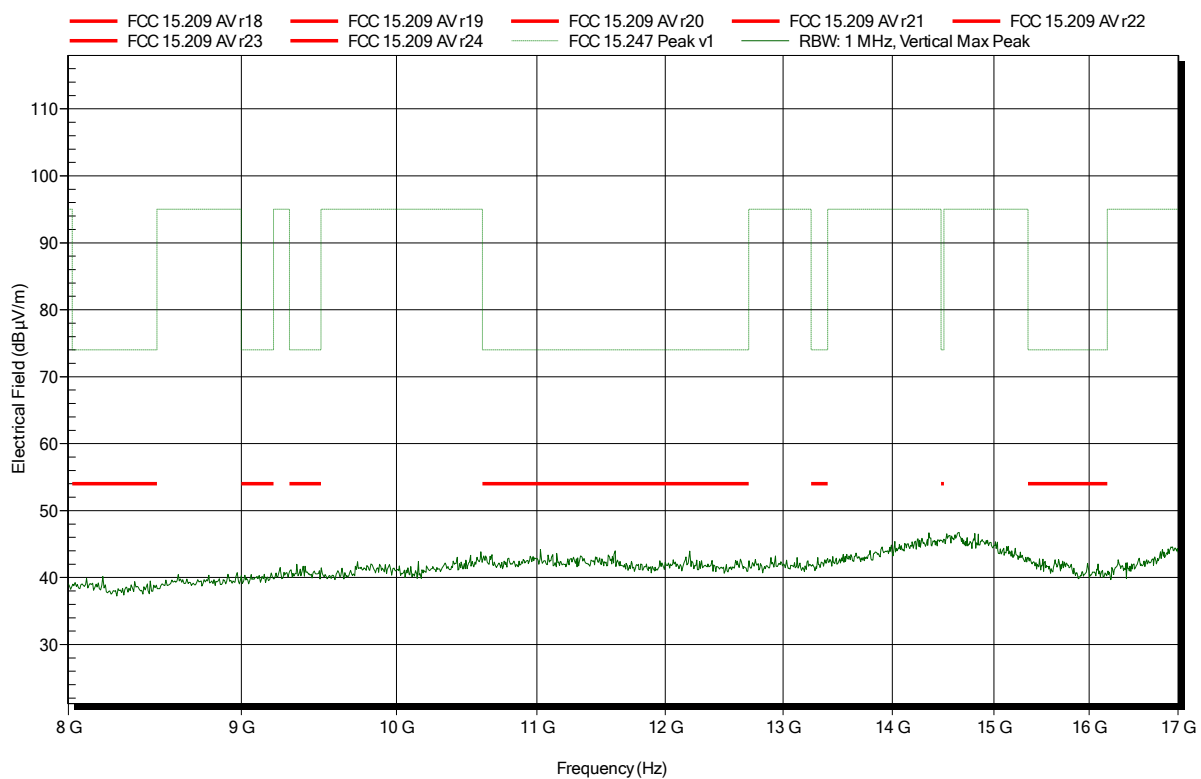


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2440 MHz
Test Date: 2019-04-11
Note:

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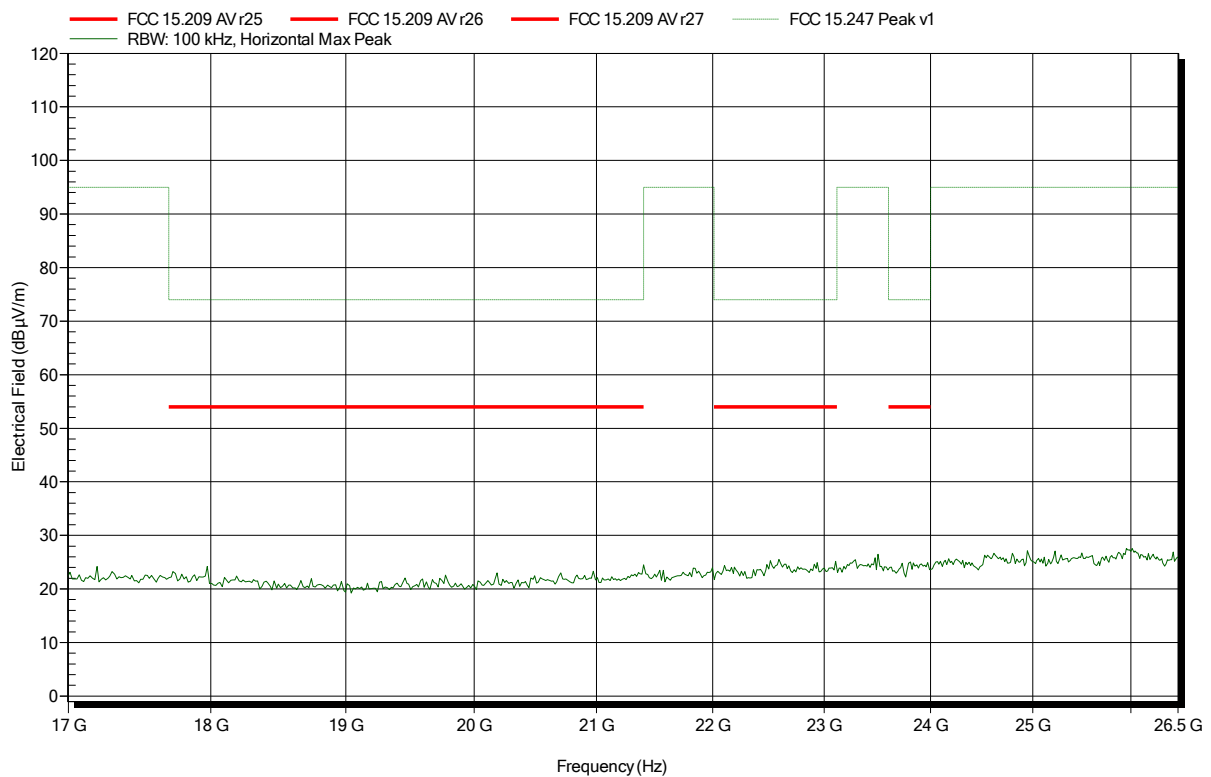


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Amplifier Research AT4560, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2440 MHz
Test Date: 2019-04-11
Note:

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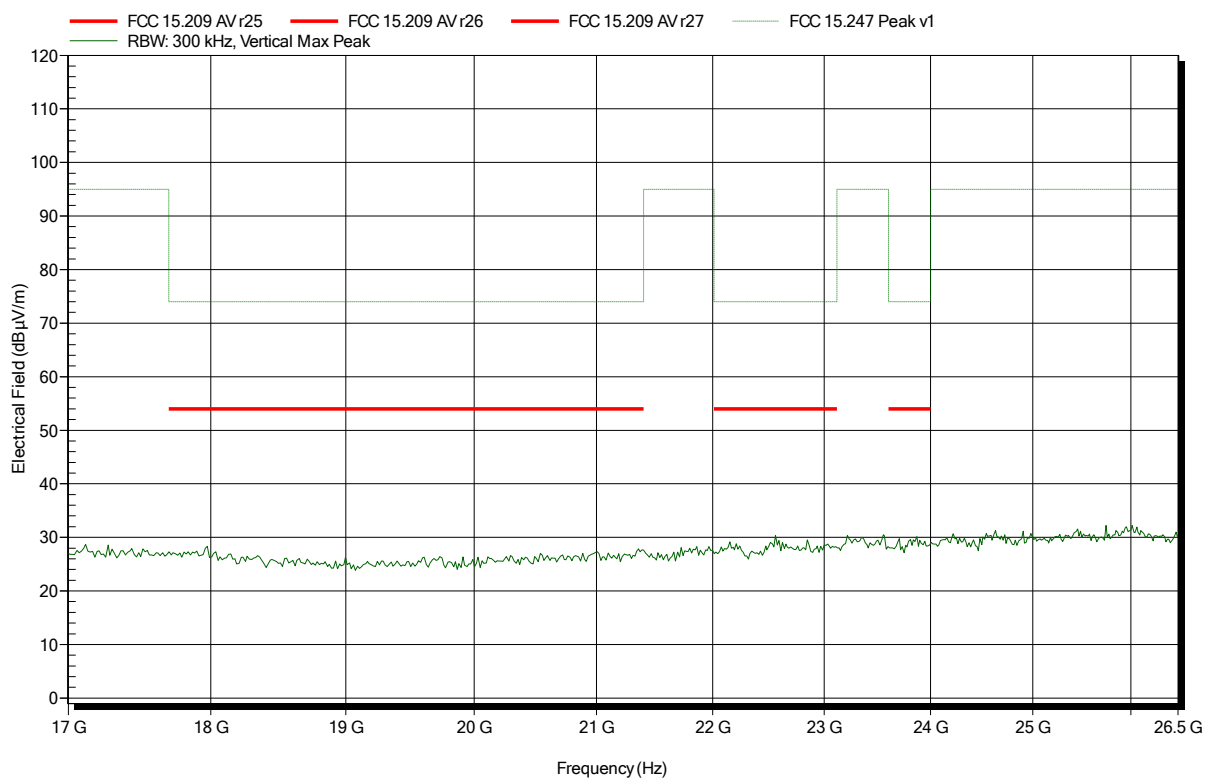


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Amplifier Research AT4560, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2440 MHz
Test Date: 2019-04-11
Note:

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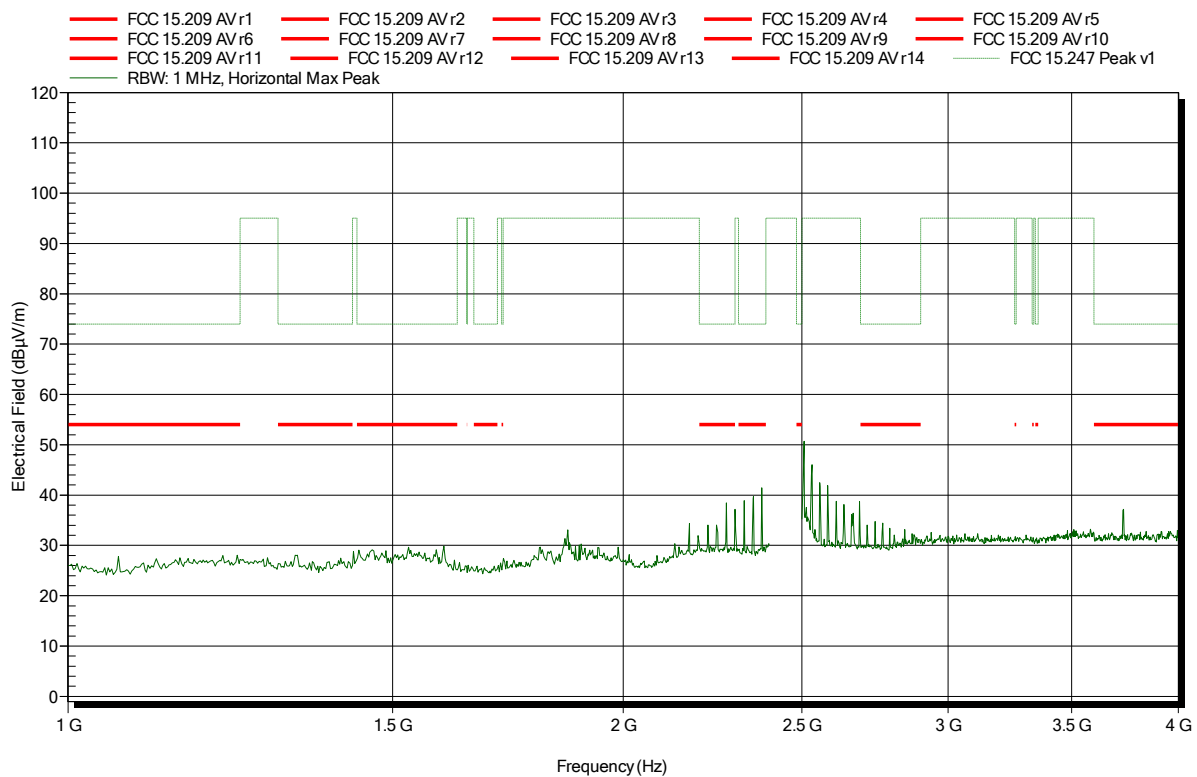


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2480 MHz
Test Date: 2019-04-11
Note:

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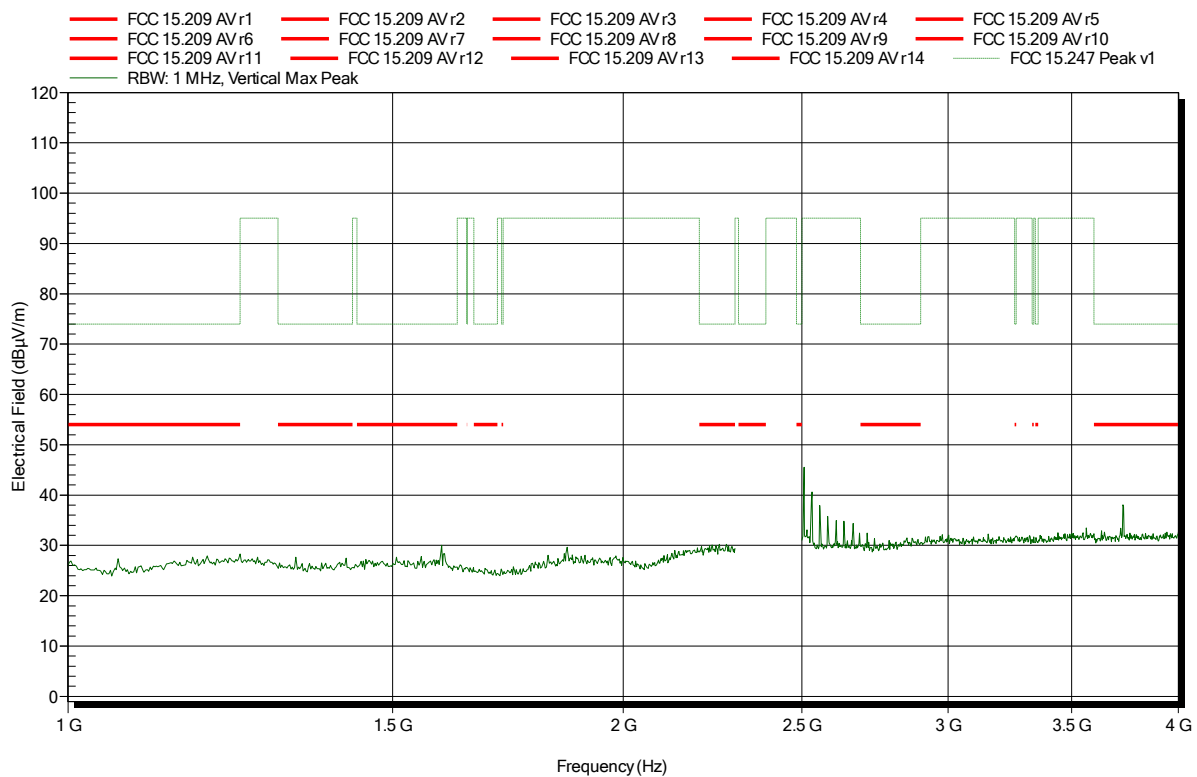


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2480 MHz
Test Date: 2019-04-12
Note:

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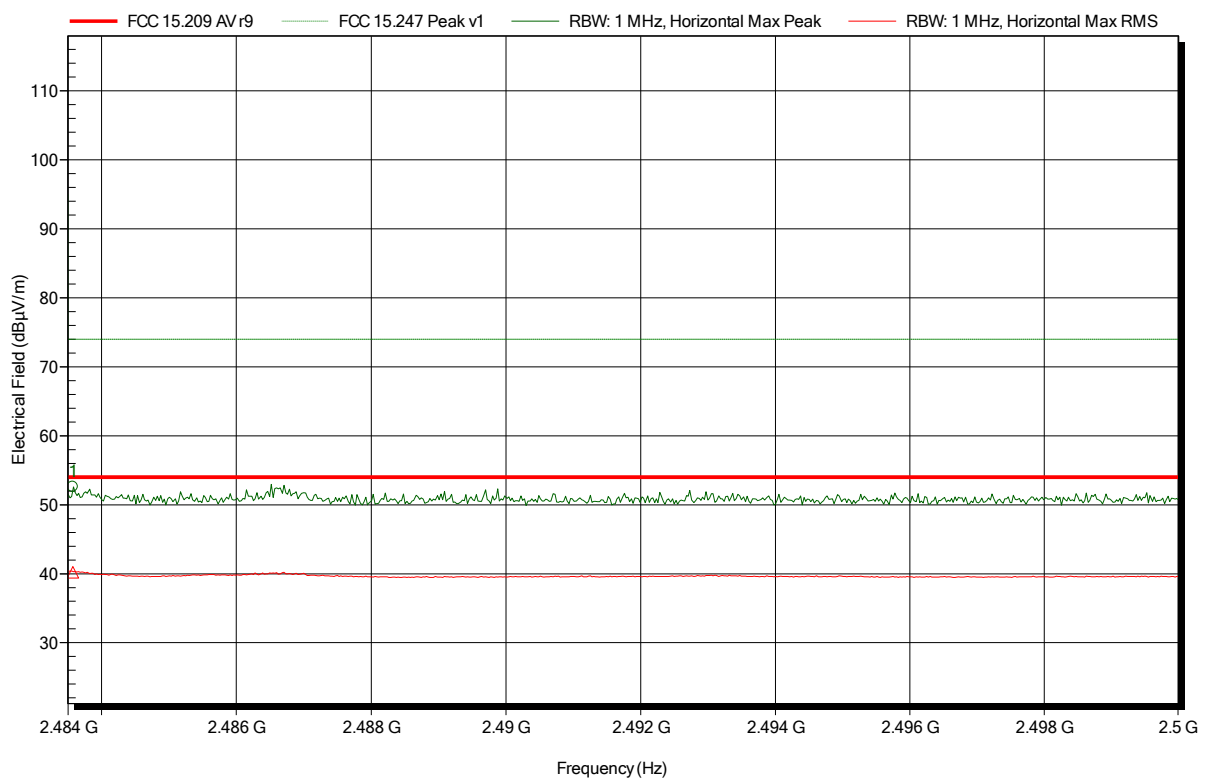


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: TX; BLE; 2480 MHz
 Test Date: 2019-04-11
 Note: upper bandedge

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4836 GHz	52.6 dBμV/m	74 dBμV/m	-21.4 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4836 GHz	40.2 dBμV/m	54 dBμV/m	-13.8 dB	Pass

Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BLE; 2480 MHz
 Test Date: 2019-04-12
 Note: upper bandedge

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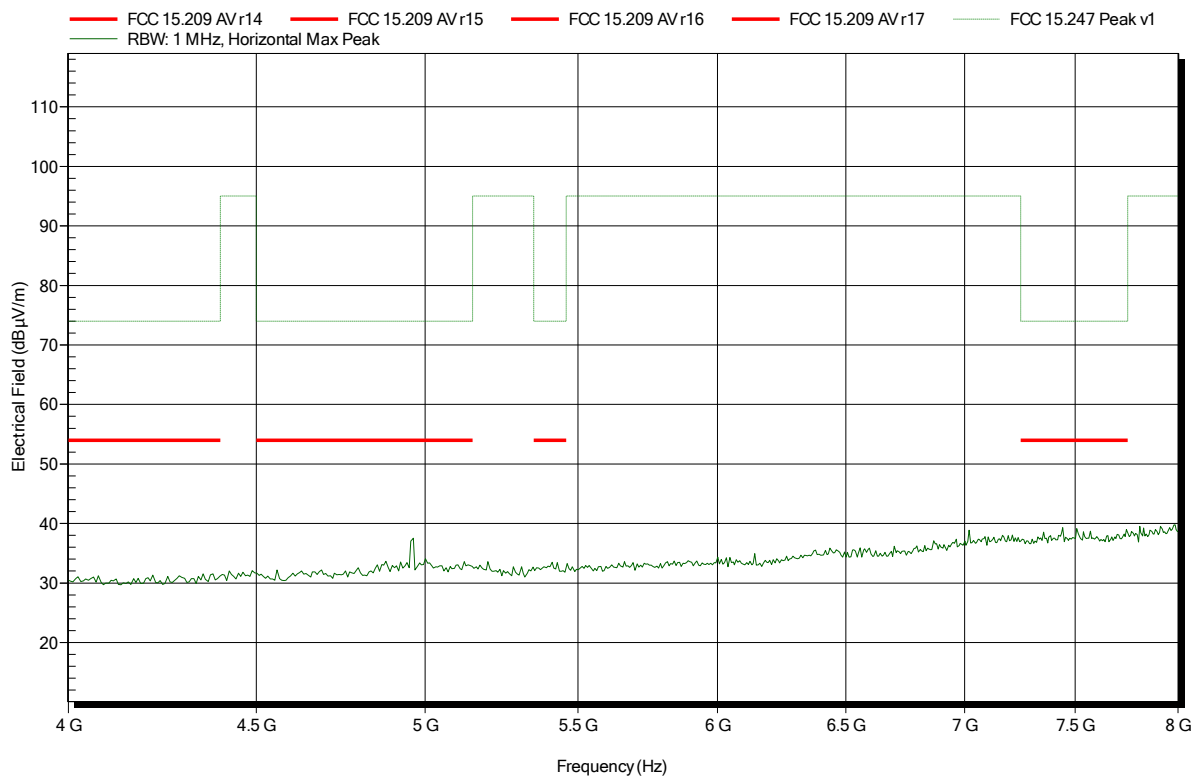


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2480 MHz
Test Date: 2019-04-11
Note:

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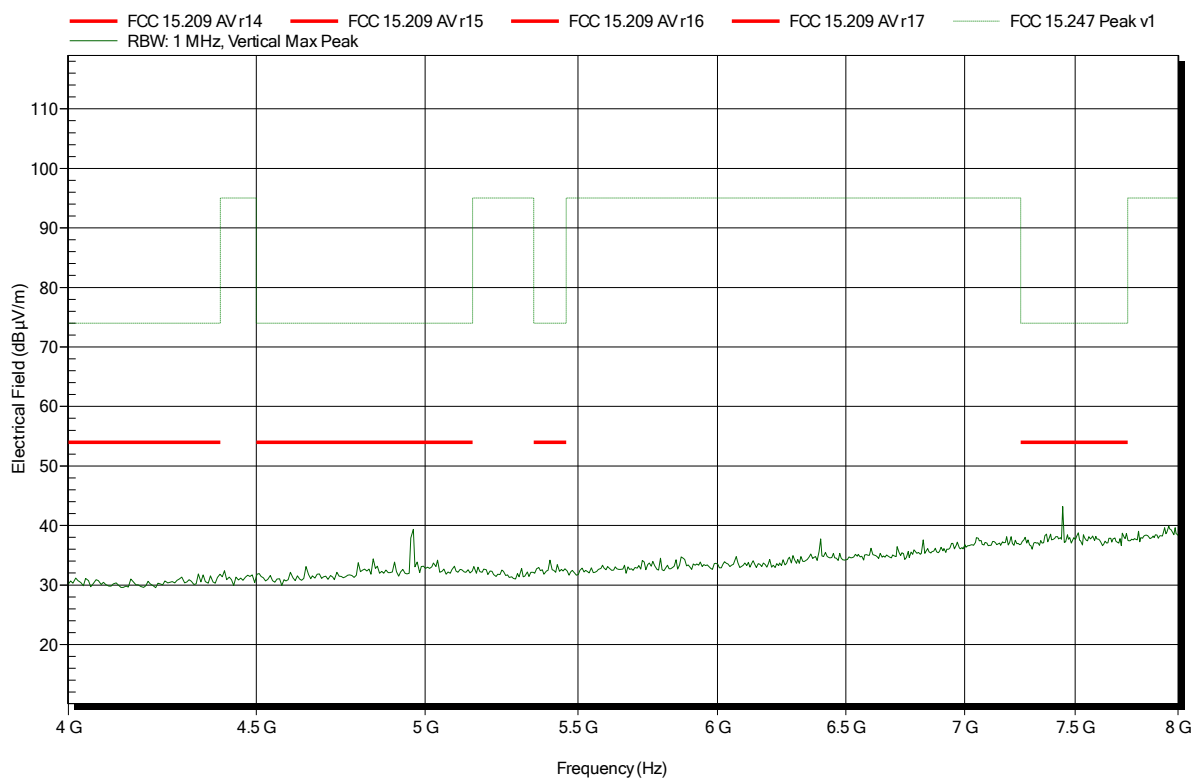


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2480 MHz
Test Date: 2019-04-12
Note:

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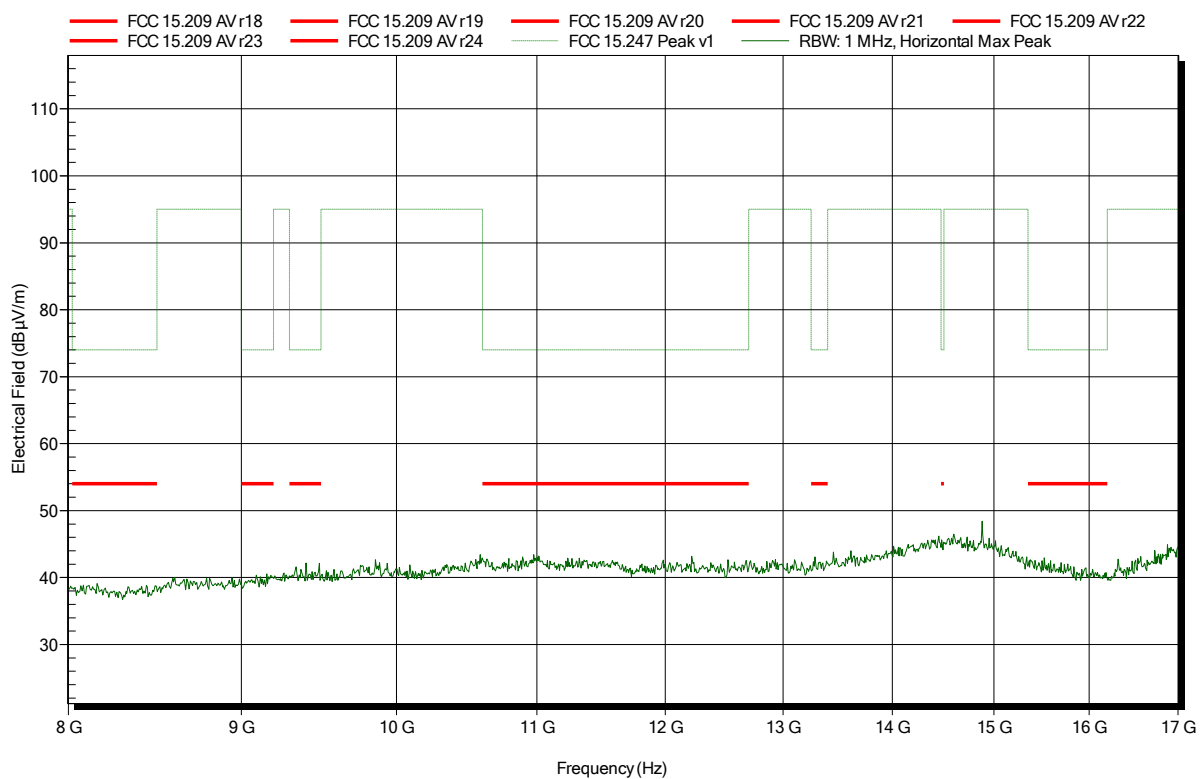


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2480 MHz
Test Date: 2019-04-11
Note:

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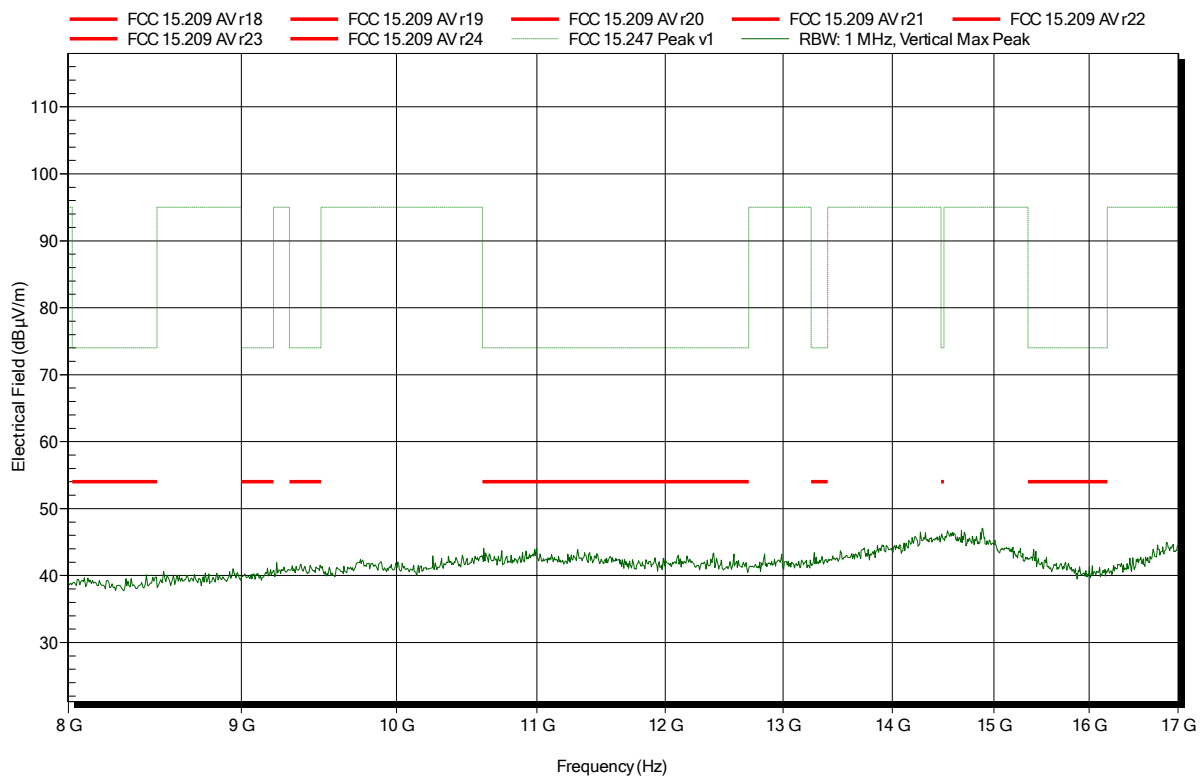


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: TX; BLE; 2480 MHz
 Test Date: 2019-04-12
 Note:

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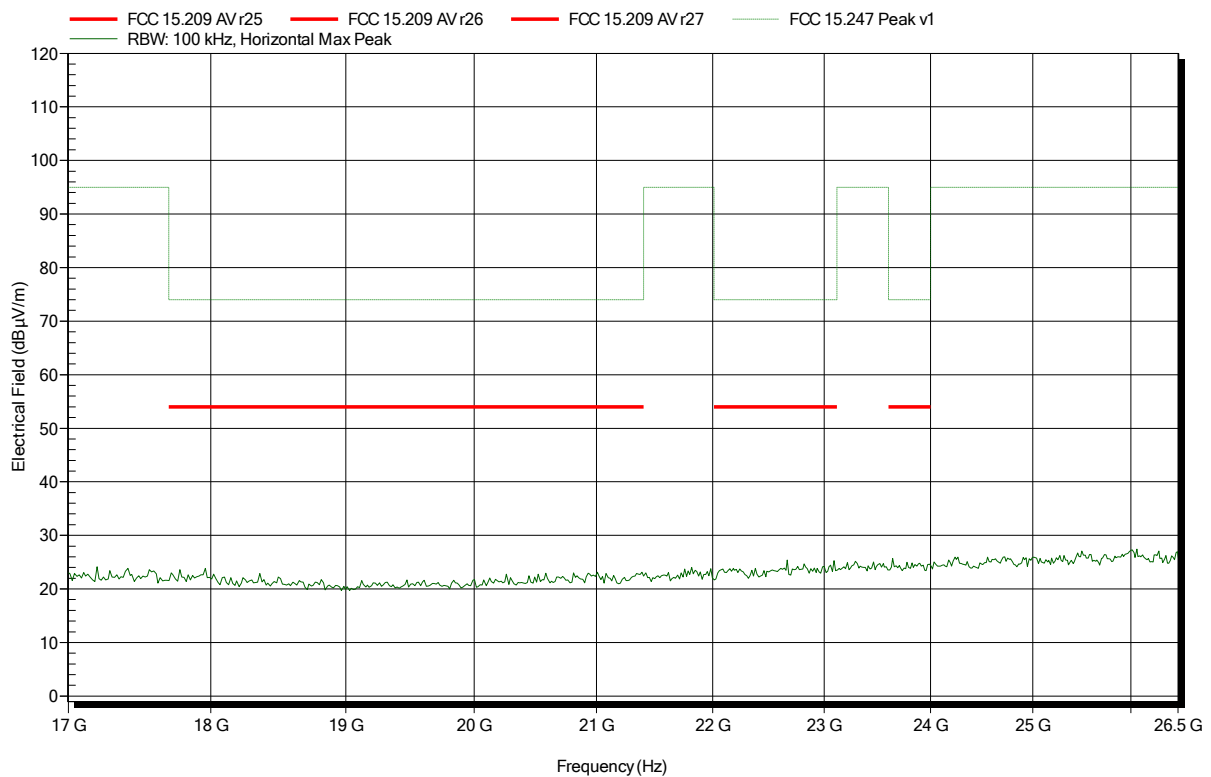


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Amplifier Research AT4560, Horizontal
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2480 MHz
Test Date: 2019-04-11
Note:

Index 100

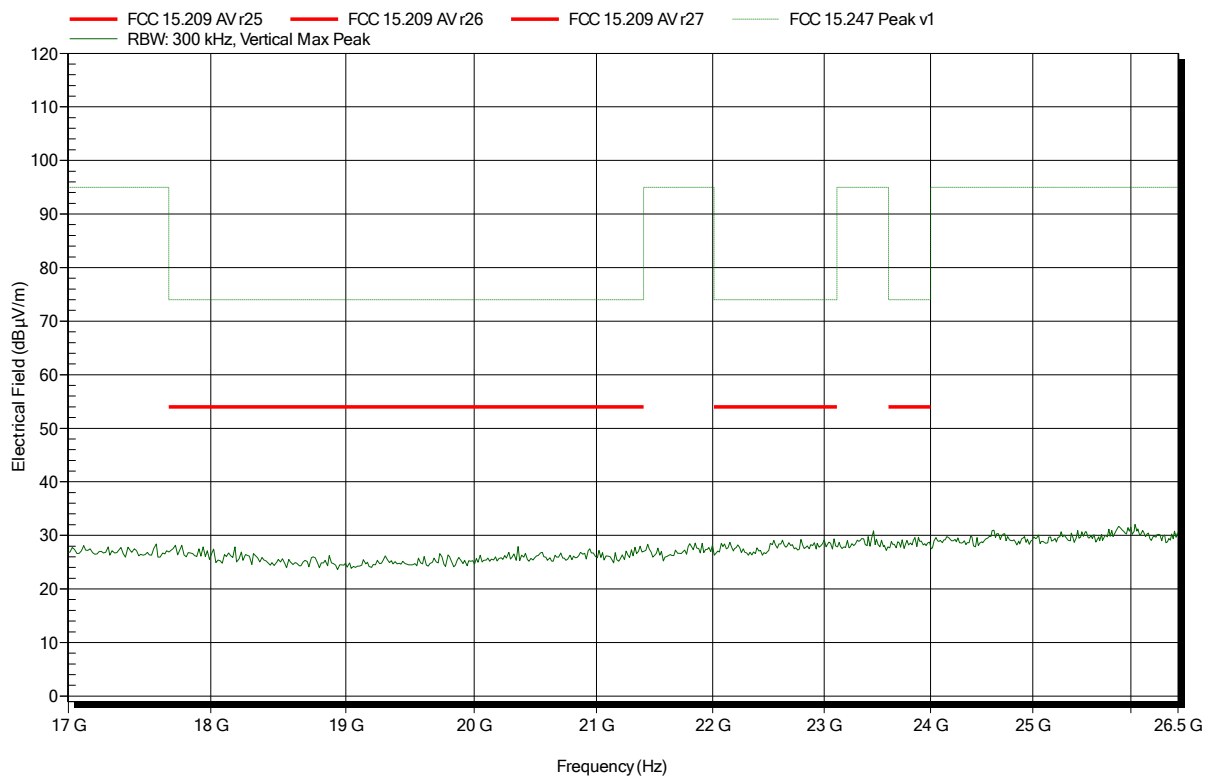


Spurious emissions according to FCC 47 e-CFR §15.247

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
EUT Name: Audio Communication Device
Model: C3
Test Site: Eurofins Product Service GmbH
Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Amplifier Research AT4560, Vertical
Measurement distance: 1 m converted to 3m
Mode: TX; BLE; 2480 MHz
Test Date: 2019-04-12
Note:

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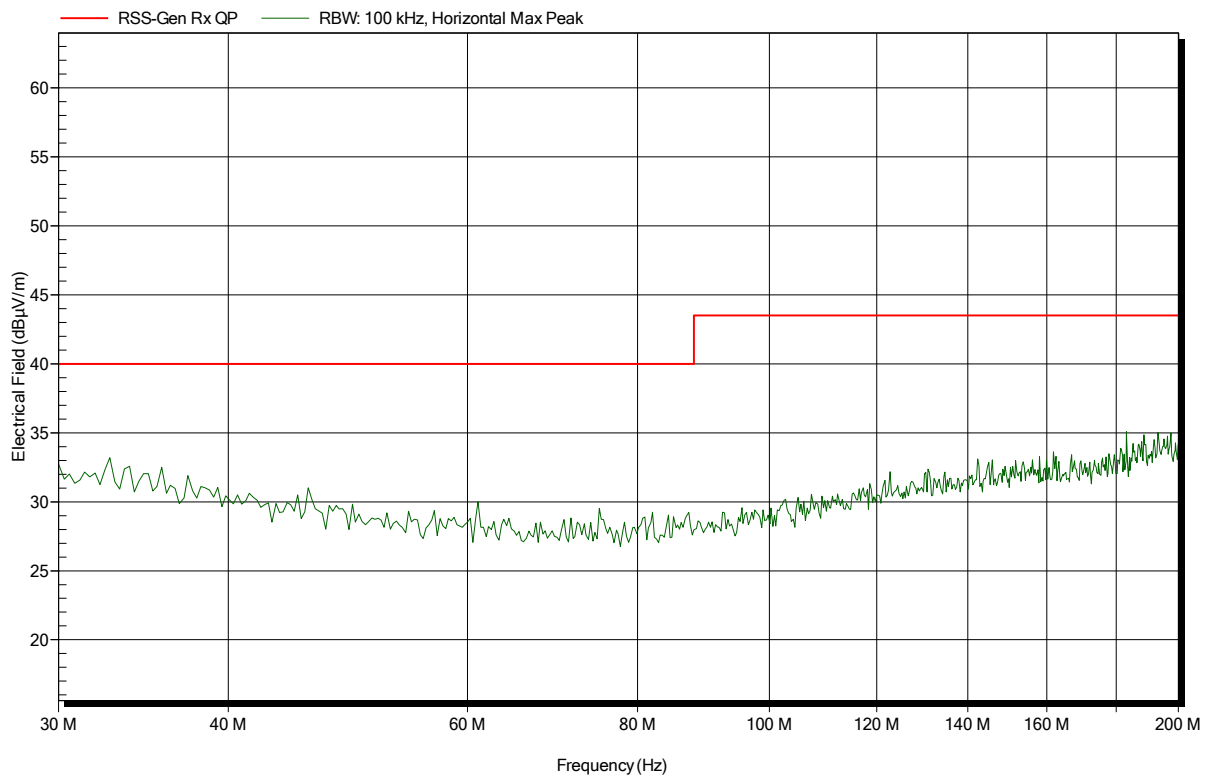
ANNEX B Receiver spurious emissions

Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1903-8127

Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Rohde & Schwarz HK 116, Horizontal
 Measurement distance: 3 m
 Mode: RX; BLE; 2440 MHz
 Test Date: 2019-04-12
 Note:

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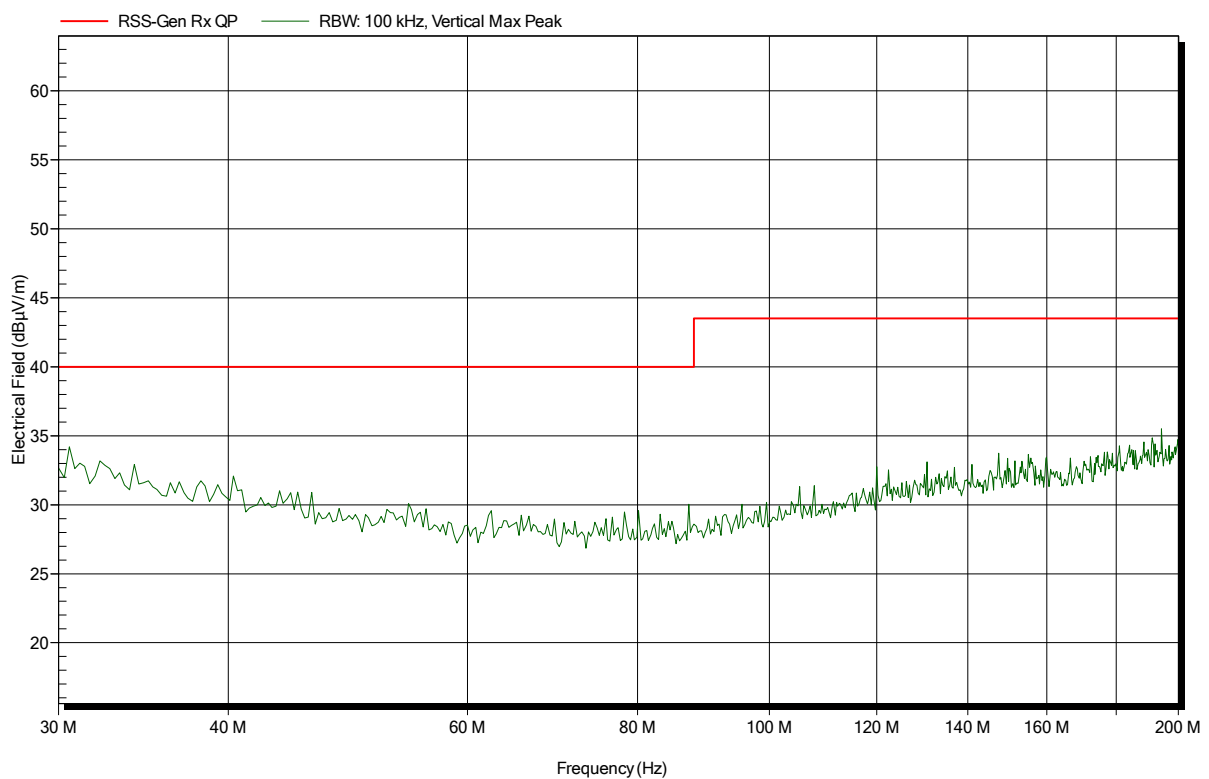


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Antenna: Rohde & Schwarz HK 116, Vertical
Measurement distance: 3 m
Mode: RX; BLE; 2440 MHz
Test Date: 2019-04-12
Note:

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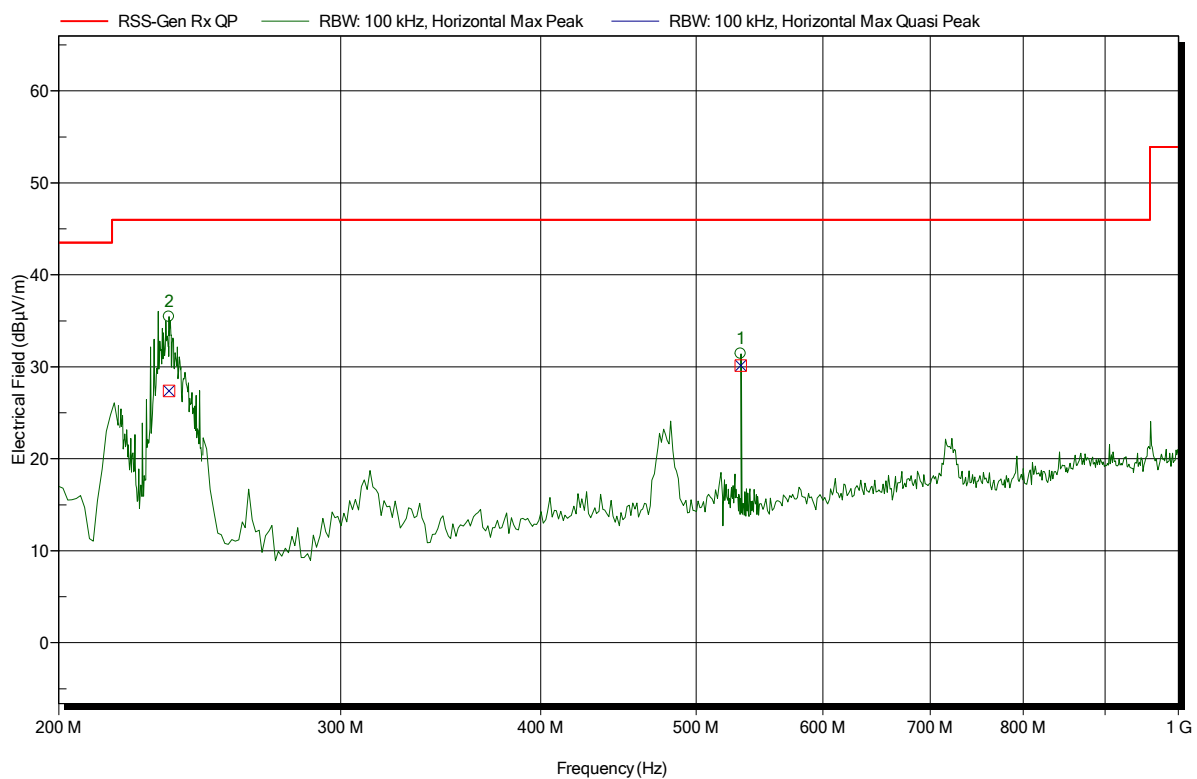


Spurious emissions according to RSS-247 Issue 2

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 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
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 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Rohde & Schwarz HL 223, Horizontal
 Measurement distance: 3 m
 Mode: RX; BLE; 2440 MHz
 Test Date: 2019-04-12
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Status	Angle	Height
234.474 MHz	35.44 dBµV/m	46 dBµV/m	-10.56 dB	Pass	35 Degree	1.2 m
533.022 MHz	31.43 dBµV/m	46 dBµV/m	-14.57 dB	Pass	155 Degree	1.2 m

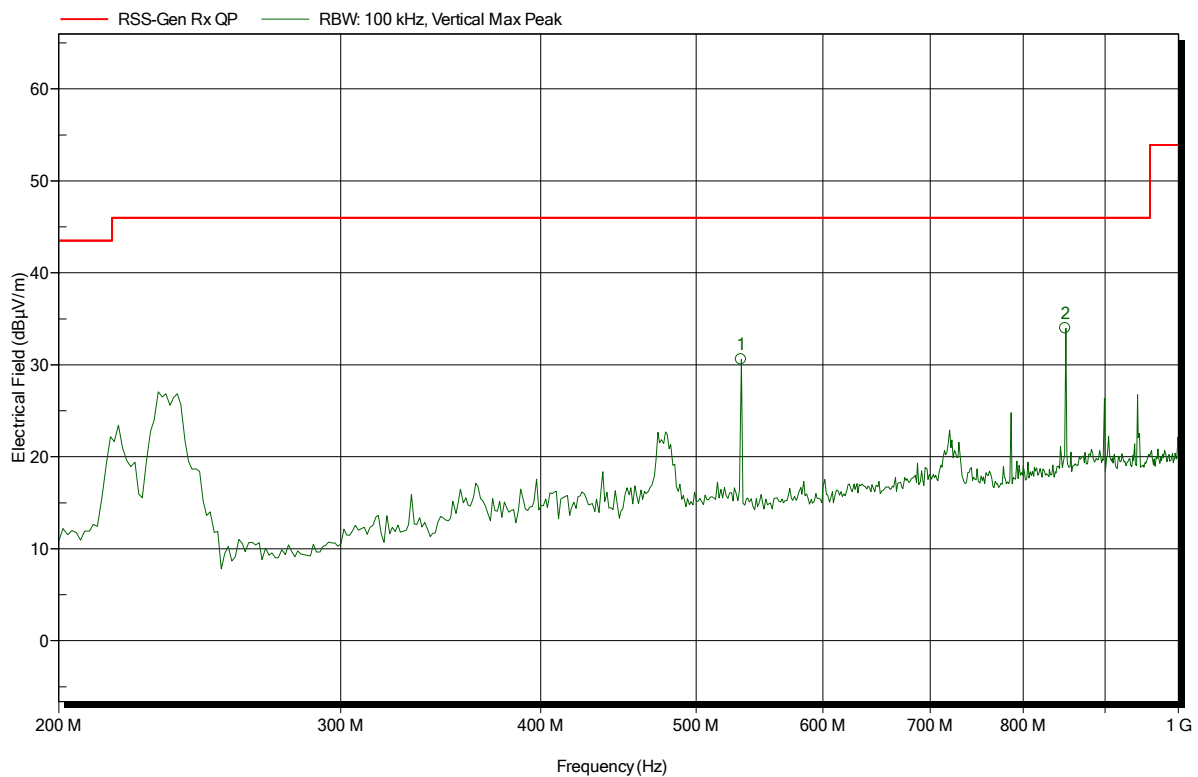
Frequency	Quasi-Peak	Quasi-Peak Limit	Quasi-Peak Difference	Quasi-Peak Status	Angle	Height
234.474 MHz	27.38 dBµV/m	46 dBµV/m	-18.62 dB	Pass	35 Degree	1.2 m
533.022 MHz	30.14 dBµV/m	46 dBµV/m	-15.86 dB	Pass	155 Degree	1.2 m

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 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Rohde & Schwarz HL 223, Vertical
 Measurement distance: 3 m
 Mode: RX; BLE; 2440 MHz
 Test Date: 2019-04-12
 Note:

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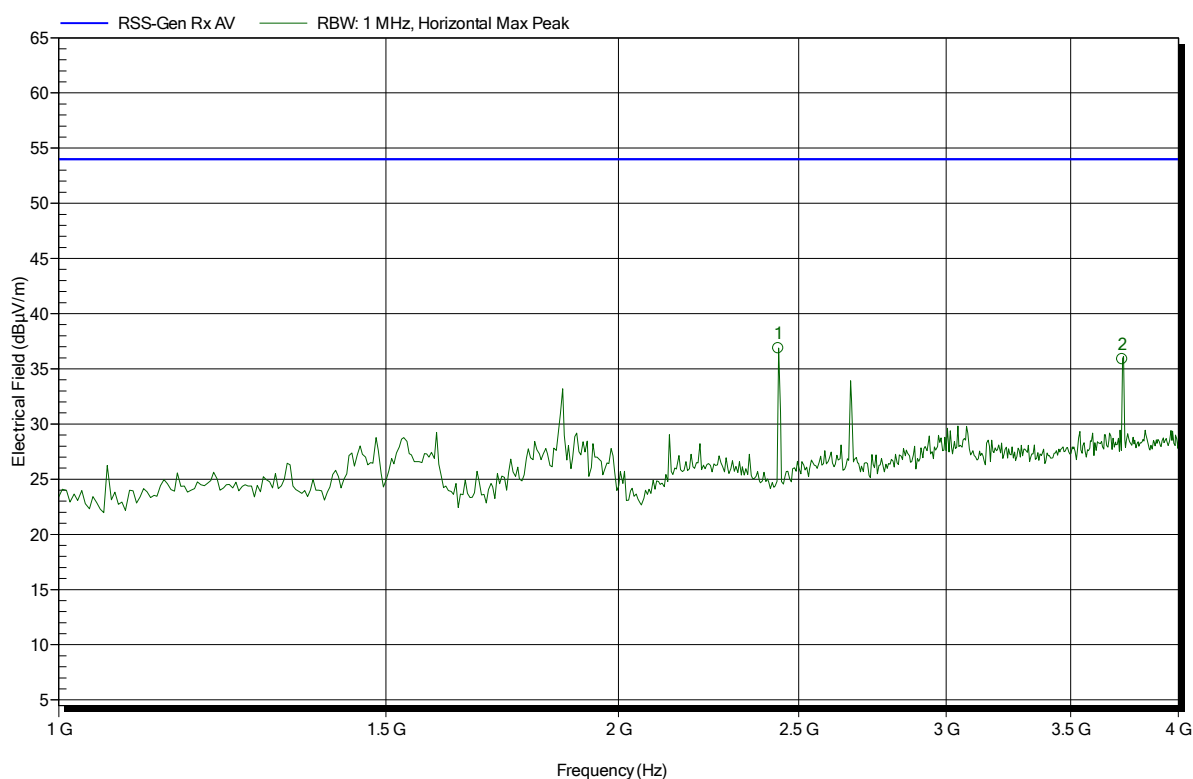
Frequency	Peak	Peak Limit	Peak Difference	Status	Angle	Height
533.333 MHz	30.58 dBμV/m	46 dBμV/m	-15.42 dB	Pass	202 Degree	1.2 m
850 MHz	33.97 dBμV/m	46 dBμV/m	-12.03 dB	Pass	112 Degree	1.2 m

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 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m
 Mode: RX; BLE; 2440 MHz
 Test Date: 2019-04-12
 Note:

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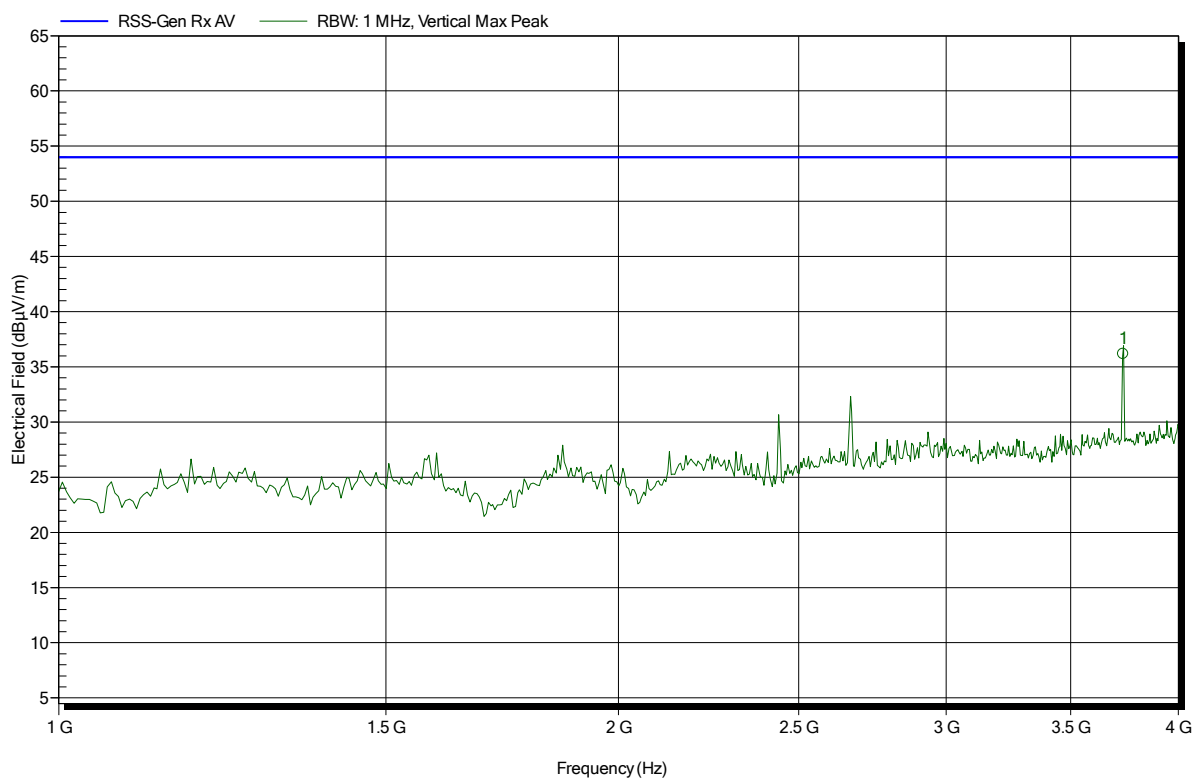
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.438 GHz	36.87 dBµV/m	53.98 dBµV/m	-17.11 dB	Pass
3.731 GHz	35.86 dBµV/m	53.98 dBµV/m	-18.12 dB	Pass

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Operator: Wilfried Treffke
Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m
Mode: RX; BLE; 2440 MHz
Test Date: 2019-04-12
Note:

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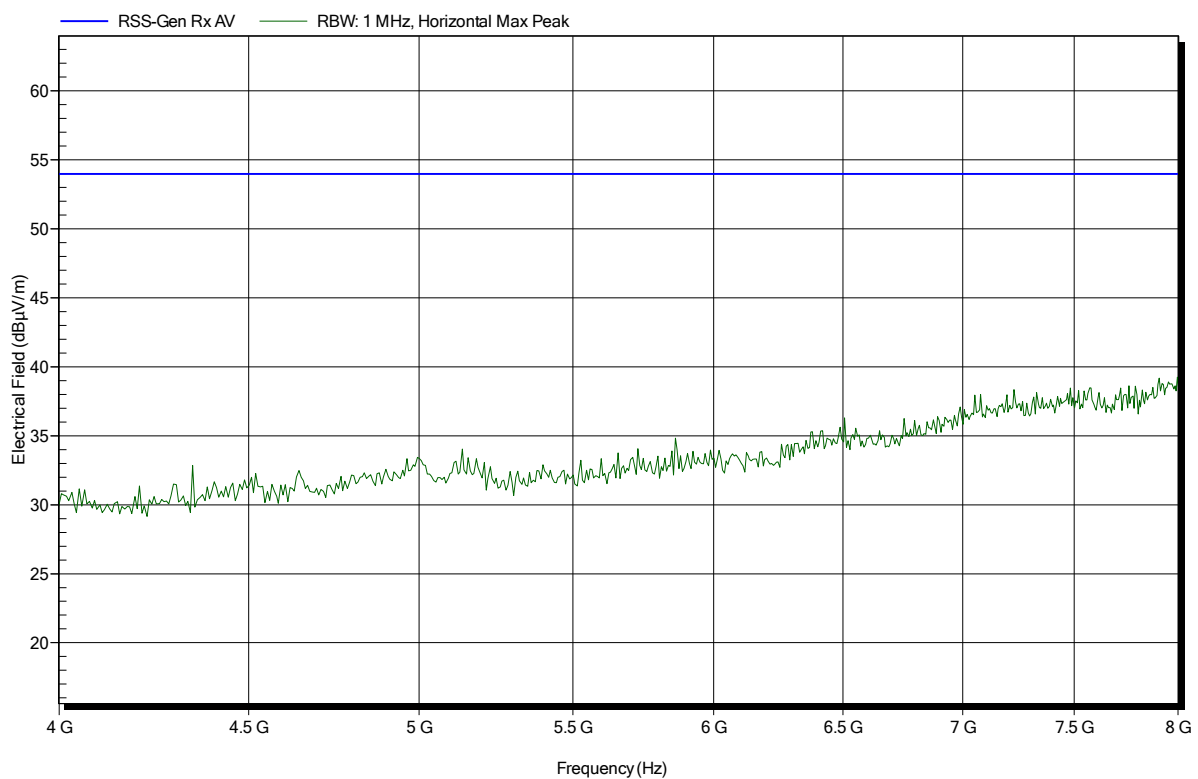
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
3.736 GHz	36.15 dBμV/m	53.98 dBμV/m	-17.83 dB	Pass

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 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m
 Mode: RX; BLE; 2440 MHz
 Test Date: 2019-04-12
 Note:

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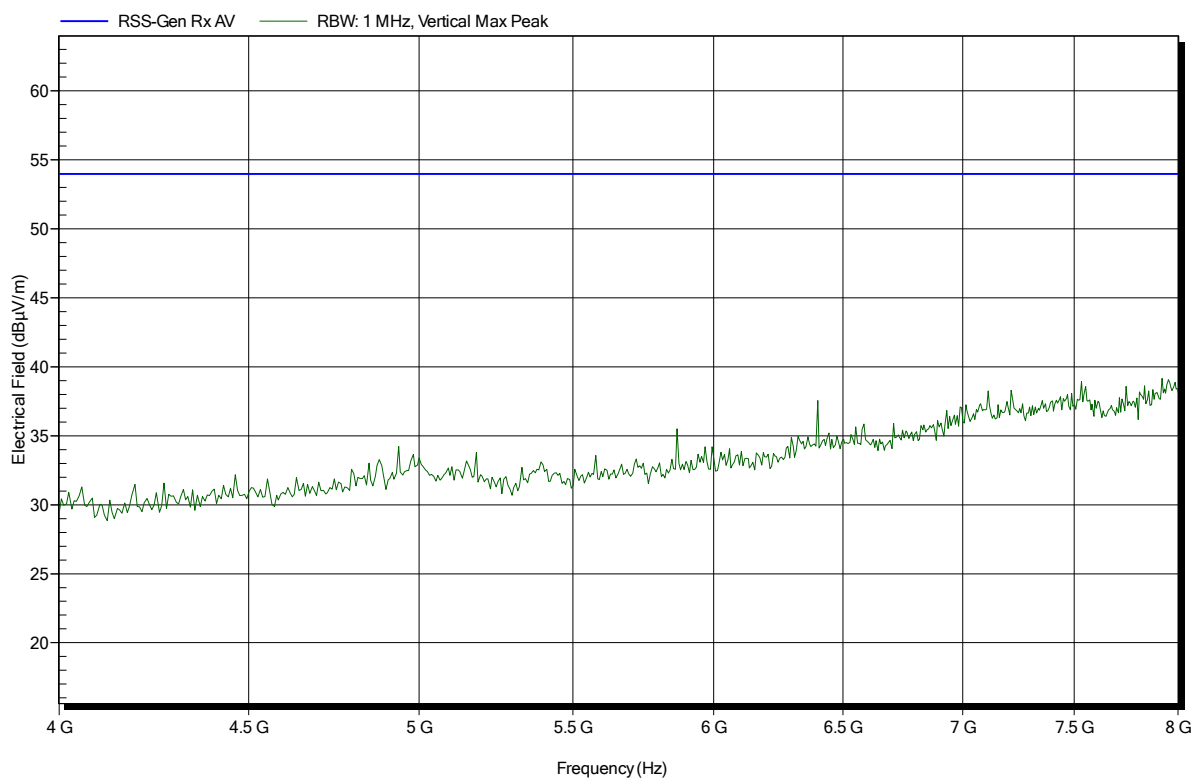


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Antenna: Schwarzbeck BBHA 9120D, Vertical
Measurement distance: 1 m
Mode: RX; BLE; 2440 MHz
Test Date: 2019-04-12
Note:

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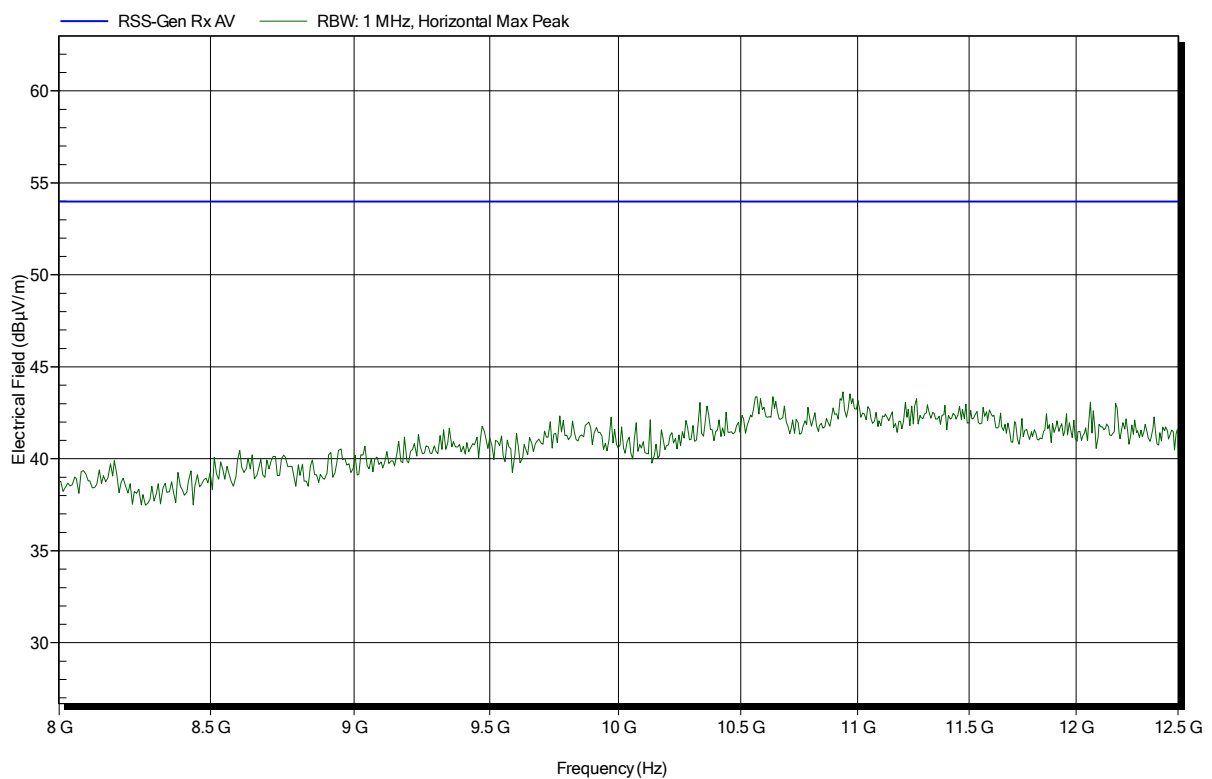


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Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
 Test Site: Eurofins Product Service GmbH
 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 1 m converted to 3m
 Mode: RX; BLE; 2440 MHz
 Test Date: 2019-04-12
 Note:

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Spurious emissions according to RSS-247 Issue 2

Project number: G0M-1903-8127
 Applicant: peiker Consumer Electronics Evolution GmbH
 EUT Name: Audio Communication Device
 Model: C3
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 Operator: Wilfried Treffke
 Test Conditions: Tnom: 23°C, Vnom: 3.7 VDC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 1 m converted to 3m
 Mode: RX; BLE; 2440 MHz
 Test Date: 2019-04-12
 Note:

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