
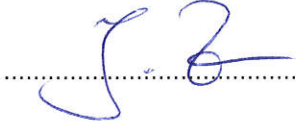


FCC TEST REPORT FCC 47 CFR Part 15C Industry Canada RSS-210 Digital transmission systems operating within the 2400 – 2483.5 MHz band	
Report Reference No.	G0M-1308-3117-TFC247W-V01
Testing Laboratory	Eurofins Product Service GmbH
Address	Storkower Str. 38c 15526 Reichenwalde Germany
Accreditation	<div style="display: flex; justify-content: center; align-items: center;">   </div> <p style="text-align: center; margin-top: 5px;"> A2LA Accredited Testing Laboratory, Certificate No.: 1983.01 FCC Filed Test Laboratory, Reg.-No.: 96970 IC OATS Filing assigned code: 3470A </p>
Applicant's name	GN Netcom A/S
Address	Lautrupbjerg 7 2750 Ballerup DENMARK
Test specification:	
Standard.....	47 CFR Part 15C KDB Publication No. 558074 RSS-210, Issue 8, 2010-12 RSS-Gen, Issue 3, 2010-12 ANSI C63.4:2009
Equipment under test (EUT):	
Product description	Bluetooth headset
Model No.	OTE16
Hardware version	28-03740
Firmware / Software version	070
	FCC-ID: BCE-OTE16 IC: 2386C-OTE16
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:	
Date of receipt of test item	2013-08-09
Date (s) of performance of tests	2013-08-22 – 2013-08-28
Compiled by	Antje Bartusch
Tested by (+ signature)..... (Testing Manager)	Wilfried Treffke 
Approved by (+ signature)	Jens Zimmermann 
Date of issue	2013-10-21
Total number of pages.....	78
General remarks:	
<p>The test results presented in this report relate only to the object tested.</p> <p>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.</p> <p>This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.</p>	
Additional comments:	
<p>The Bluetooth Low Energy radio part also contains a passive NFC tag mode used for pairing. Due to the passive nature of the tag built into the EUT no further testing for this special feature is needed.</p>	

Version History

Version	Issue Date	Remarks	Revised by
01	2013-10-21	Initial Release	

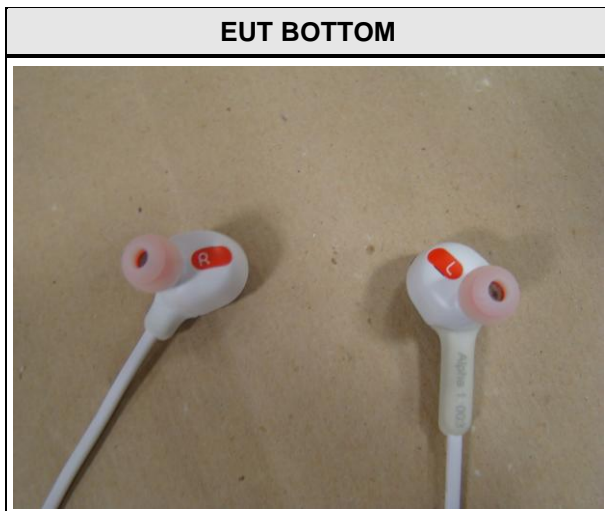
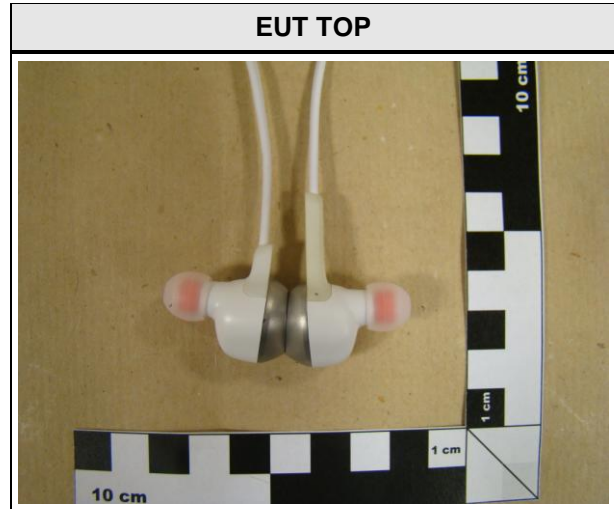
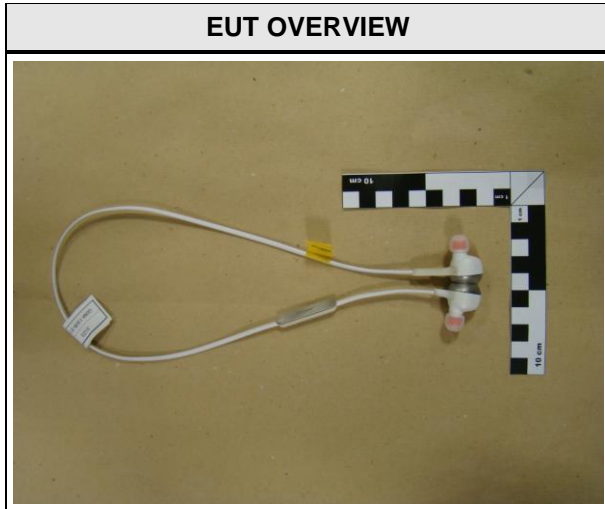
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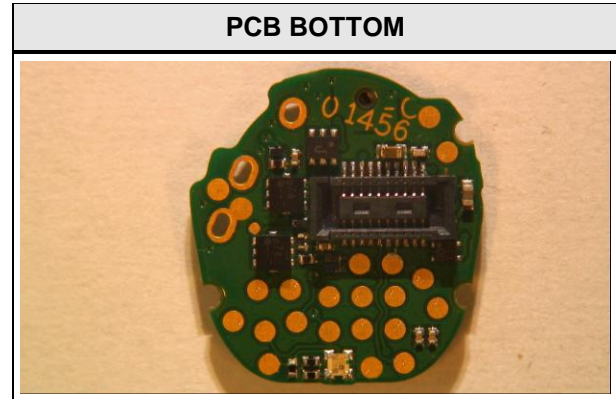
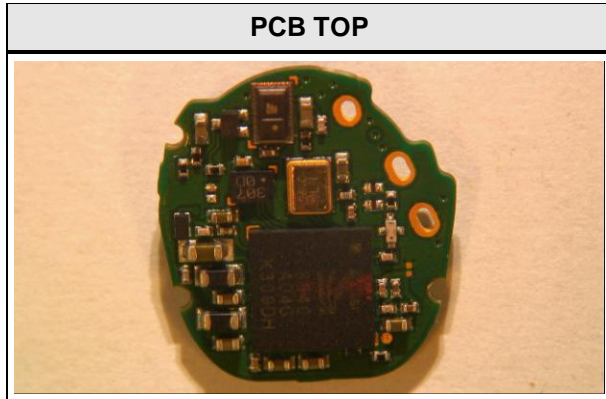
1 Equipment (Test item) Description

Description	Bluetooth headset	
Model	OTE16	
Serial number	None	
Hardware version	28-03740	
Software / Firmware version	070	
FCC-ID	BCE-OTE16	
IC	2386C-OTE16	
Equipment type	End product	
Radio type	Transceiver	
Radio technology	Bluetooth 4.0 Low Energy	
Operating frequency range	2402 - 2480 MHz	
Assigned frequency band	2400 - 2483.5 MHz	
Main test frequencies	F _{LOW}	2402 MHz
	F _{MID}	2440 MHz
	F _{HIGH}	2480 MHz
Spreading	Frequency Hopping	
Modulations	GFSK	
Number of channels	40	
Channel spacing	2MHz	
Number of antennas	1	
Antenna	Type	integrated
	Model	Patch Antenna
	Manufacturer	unspecified
	Gain	-1.41 dBi (manufacturer declaration)
Manufacturer	GN Netcom A/S Lautrupbjerg 7 2750 Ballerup DENMARK	
Power supply	V _{NOM}	3.7 VDC
	V _{MIN}	3.2 VDC
	V _{MAX}	4.2 VDC
AC/DC-Adaptor	none	

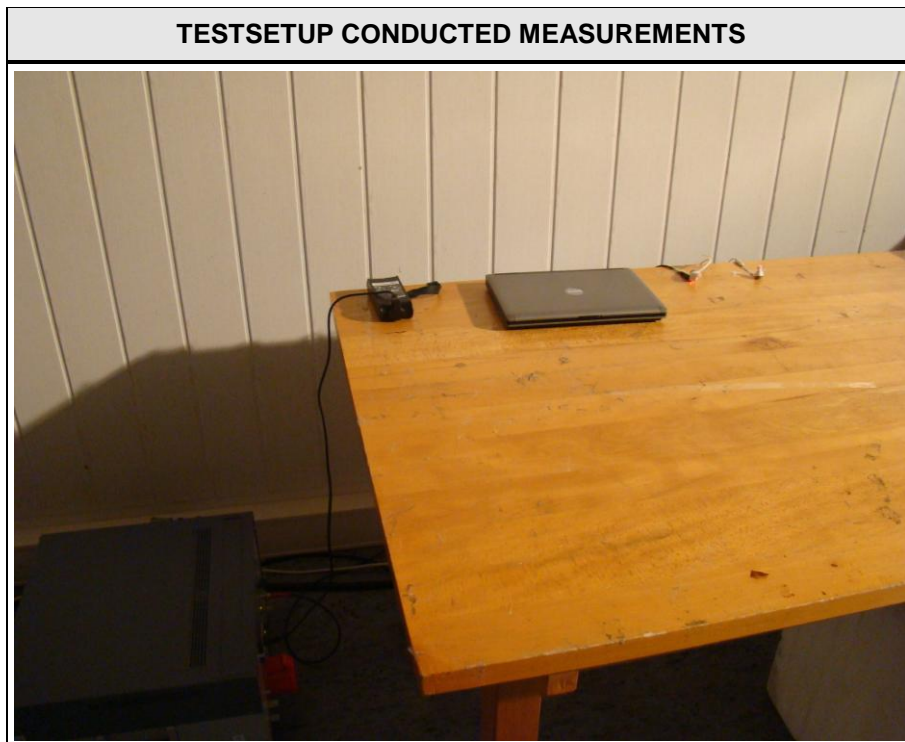
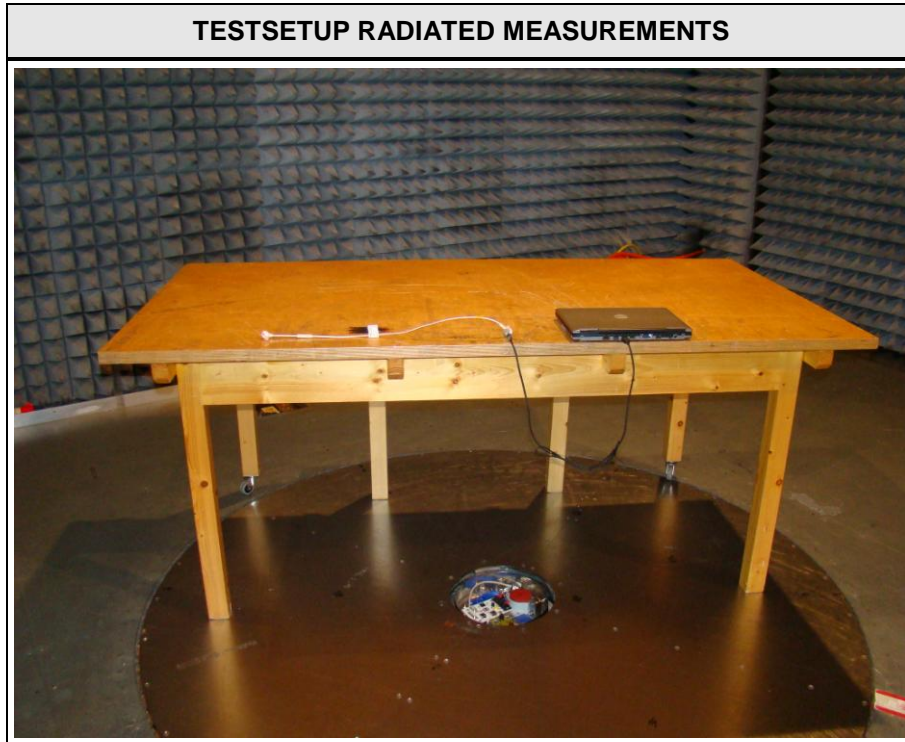
1.1 Photos – Equipment External



1.2 Photos – Equipment internal



1.3 Photos – Test setup



1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	Laptop	DELL	Latitude	
<p>*Note: Use the following abbreviations:</p> <p>AE : Auxiliary/Associated Equipment, or</p> <p>SIM : Simulator (Not Subjected to Test)</p> <p>CABL : Connecting cables</p>				

1.5 Test Modes

Mode #	Description	
Transmit	General conditions:	EUT powered and controlled via fully charged battery.
	Radio conditions:	Mode = standalone transmit Spreading = Hopping stopped (single hopping channel) Modulation = GFSK Data rate = 1 Mbps Bandwidth = 2 MHz Duty cycle = 78% Power level = Maximum
Receive	General conditions:	EUT powered and controlled via fully charged battery.
	Radio conditions:	Mode = standalone receive (scan mode) Spreading = On Modulation = GFSK
AC-Powerline	General conditions:	EUT connected and powered by Notebook USB port.
	Radio conditions:	Mode = Transmit Spreading = On

1.6 Test Equipment Used During Testing

Occupied Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2013-01	2014-01

6dB Bandwidth					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2013-01	2014-01

Maximum peak conducted power					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2013-01	2014-01

Power spectral density					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2013-01	2014-01

Band edge compliance					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2013-01	2014-01

Conducted spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	R&S	FSP 30	EF00312	2013-01	2014-01

Radiated spurious emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Semi-anechoic chamber	Frankonia	AC 5	EF00395	calibration	calibration
Spectrum Analyzer	R&S	FSIQ26	EF00242	2013-06	2014-06
Biconical Antenna	R&S	HK 116	EF00012	2013-02	2016-02
LPD Antenna	R&S	HL 223	EF00187	2011-02	2014-02
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	2012-10	2014-10
AMN	R&S	ESH3-Z5	EF00036	2012-11	2014-11
EMI Test Receiver	R&S	ESCS 30	EF00295	2012-09	2013-09

 Test Report No.: G0M-1308-3117-TFC247W-V01

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

1.7 Sample emission level calculation

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

Reading:

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

A.F.:

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

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

Net:

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

Limit:

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

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

Margin:

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

Example only:


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

2 Result Summary

FCC 47 CFR Part 15C, IC RSS-210				
Product Specific Standard Section	Requirement – Test	Reference Method	Result	Remarks
RSS-Gen 4.6.1	Occupied Bandwidth	RSS-Gen 4.6.1	N/R	Informational only
FCC § 15.247(a)(2) IC RSS-210 § A8.2	6dB Bandwidth	KDB Publication No. 558074	PASS	
FCC § 15.247(b)(3) IC RSS-210 § A8.4	Maximum peak conducted power	KDB Publication No. 558074	PASS	
FCC § 15.247(e) IC RSS-210 § A8.2	Power spectral density	KDB Publication No. 558074	PASS	
47 CFR 15.207 RSS-Gen 7.2.4	AC power line conducted emissions	KDB Publication No. 558074 / ANSI C63.4	PASS	
FCC § 15.247(d) IC RSS-210 § A8.5	Band edge compliance	KDB Publication No. 558074	PASS	
FCC § 15.247(d) IC RSS-210 § A8.5	Conducted spurious emissions	KDB Publication No. 558074	PASS	
FCC § 15.247(d) FCC § 15.209 IC RSS-210 A8.5 IC RSS-Gen 4.9 IC RSS-Gen 7.2.5	Transmitter radiated spurious emissions	KDB Publication No. 558074 / ANSI C 63.4	PASS	
IC RSS-Gen 4.10 IC RSS-Gen 6.1	Receiver radiated spurious emissions	ANSI C 63.4	PASS	
Remarks:				

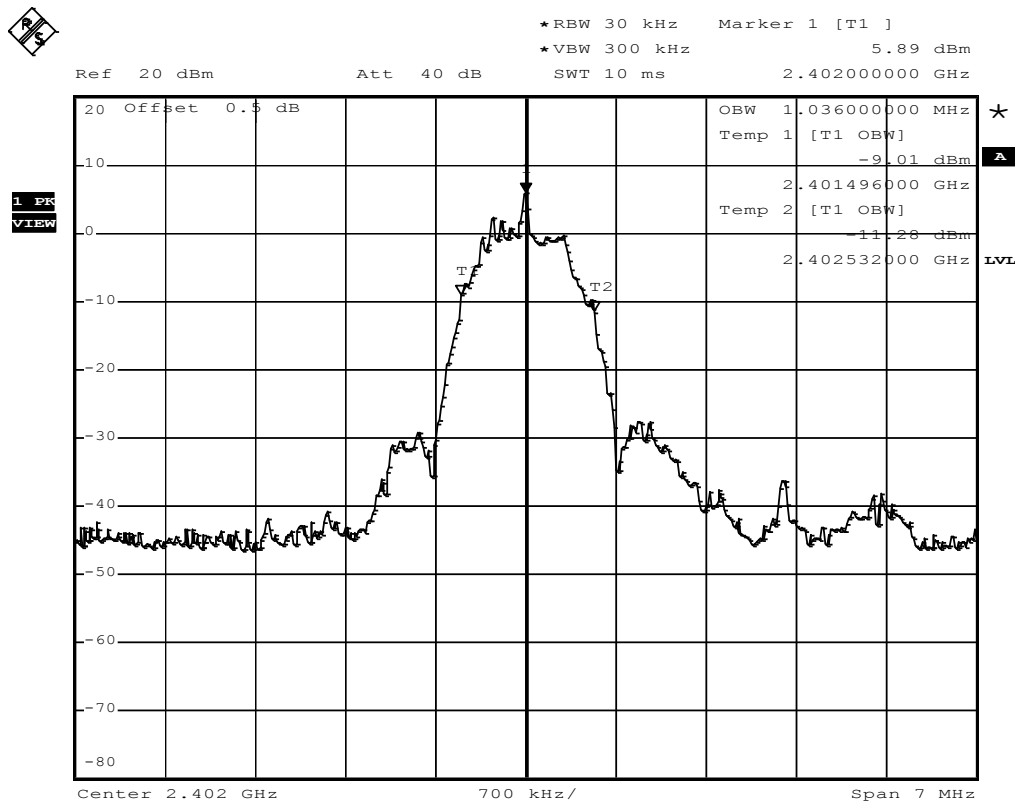
3 Test Conditions and Results

3.1 Test Conditions and Results – Occupied Bandwidth

Occupied Bandwidth acc. IC RSS-Gen		Verdict: PASS	
Test according to measurement reference	Reference Method		
	RSS-Gen 4.6.1		
Test frequency range	Tested frequencies		
	$F_{LOW} / F_{MID} / F_{HIGH}$		
Limits			
None (Informational only)			
Test setup			
			
Test procedure			
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set to at least twice the emission spectrum 3. Resolution bandwidth set to 1 % of span 4. Occupied Bandwidth (99 %) measurement with spectrum analyzer built in measurement function 			
Test results			
Channel	Frequency [MHz]	Mode	Occupied Bandwidth [kHz]
F_{LOW}	2402	Transmit	1036
F_{MID}	2440	Transmit	1036
F_{HIGH}	2480	Transmit	1036
Comments:			

Occupied Bandwidth – F_{Low}
**RSS Gen
Occupied Bandwidth**

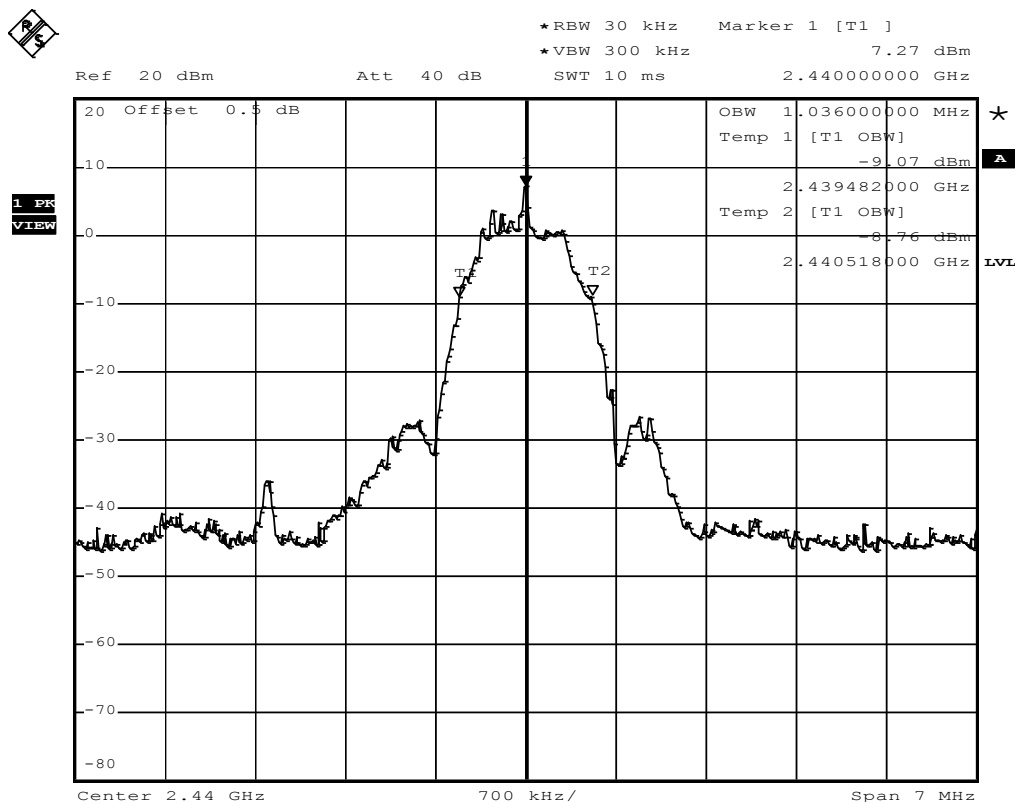
EUT	Bluetooth headset
Model	OET16 / BLE
Approval Holder	GN-Netcom A/S / Ord.: G0M-1308-3117
Temperature / Voltage	Tnom / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 2402 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	GFSK



Comment: Occupied bandwidth: 1036 KHz
 Date: 2.SEP.2013 12:27:14

Occupied Bandwidth – F_{MID}
**RSS Gen
Occupied Bandwidth**

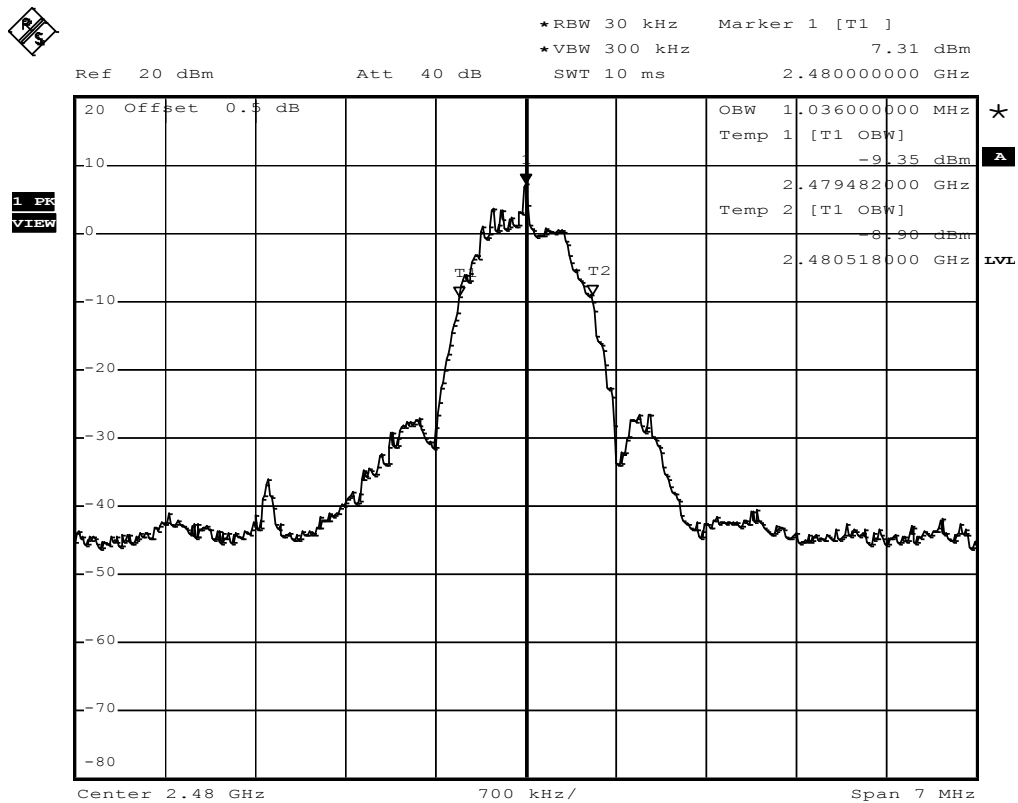
EUT	Bluetooth headset
Model	OET16 / BLE
Approval Holder	GN-Netcom A/S / Ord.: G0M-1308-3117
Temperature / Voltage	Tnom / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 2440 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	GFSK



Comment: Occupied bandwidth: 1036 KHz
 Date: 2.SEP.2013 12:31:13


Occupied Bandwidth – F_{HIGH}
**RSS Gen
Occupied Bandwidth**

EUT	Bluetooth headset
Model	OET16 / BLE
Approval Holder	GN-Netcom A/S / Ord.: G0M-1308-3117
Temperature / Voltage	Tnom / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	4.4.1 Occupied Bandwidth
Comment 1	Channel.: 2480 MHz
Comment 2	A spectrum analyzer with an integrated 99% power bandwidth function is used
Comment 3	GFSK



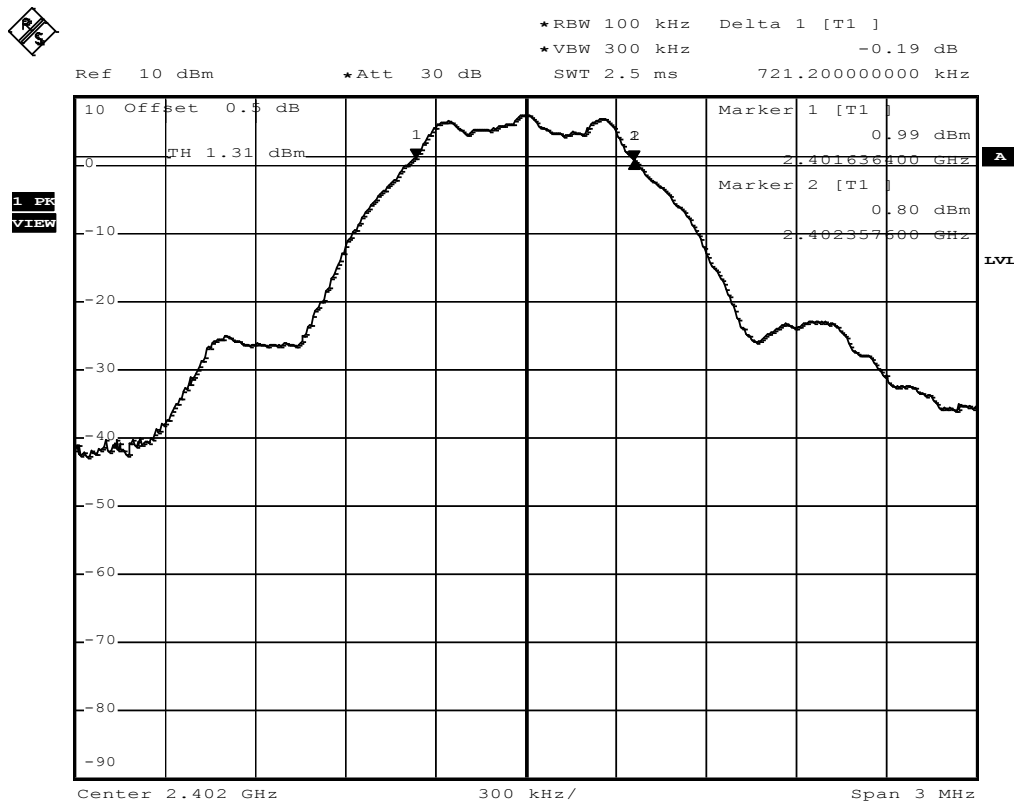
Comment: Occupied bandwidth: 1036 KHz
 Date: 2.SEP.2013 12:32:36

3.2 Test Conditions and Results – 6 dB Bandwidth

6dB Bandwidth acc. FCC 15.247 / IC RSS-210				Verdict: PASS	
EUT requirement rule parts and clause	Reference				
	FCC 15.247(a)(2) / IC RSS-210 A8.2				
Test according to measurement reference	Reference Method				
	FCC KDB Publication No. 558074				
Test frequency range	Tested frequencies				
	$F_{LOW} / F_{MID} / F_{HIGH}$				
Limits					
Limit					
≥ 500kHz					
Test setup					
					
Test procedure					
<ol style="list-style-type: none"> 1. EUT set to test mode 2. Span set to at least twice the emission spectrum 3. Detector set to peak and max hold and RBW is set to 100 kHz 4. Envelope peak value of emission spectrum is selected 5. Marker on envelope of spectrum is set to level of -6 dB to the left of the peak 6. Marker on envelope of spectrum is set to level of -6 dB to the right of the peak 7. 6 dB Bandwidth is determined by marker frequency separation 					
Test results					
Channel	Frequency [MHz]	Mode	6 dB Bandwidth [kHz]	Limit [kHz]	Result
F_{LOW}	2402	Transmit	721.2	500	PASS
F_{MID}	2440	Transmit	706.8	500	PASS
F_{HIGH}	2480	Transmit	710.4	500	PASS
Comments:					

6 dB Bandwidth – F_{Low}
**FCC part 15.247 (a)2
Minimum 6 dB Bandwidth**

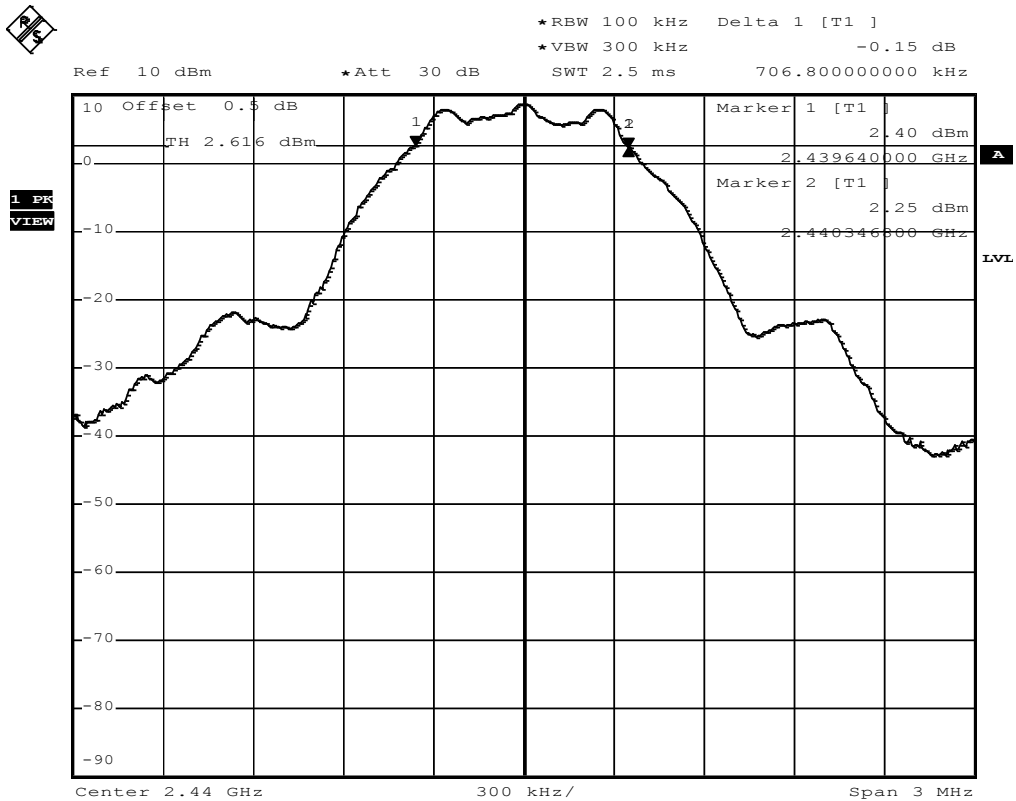
EUT	Bluetooth headset
Model	OET16 / BLE
Approval Holder	GN-Netcom A/S / Ord.: G0M-1308-3117
Temperature / Voltage	Tnom / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15.247 (a)2
Comment 1	Minimum 6 dB Bandwidth
Comment 2	Channel 2402 MHz, GFSK
Comment 3	procedure 8.1 DTS BW (558074 D01 DTS)



Comment: 6 dB bandwidth: 721.2 KHz > 500 KHz; verdict: PASS
 Date: 2.SEP.2013 09:09:14

6 dB Bandwidth – F_{MD}
**FCC part 15.247 (a)2
Minimum 6 dB Bandwidth**

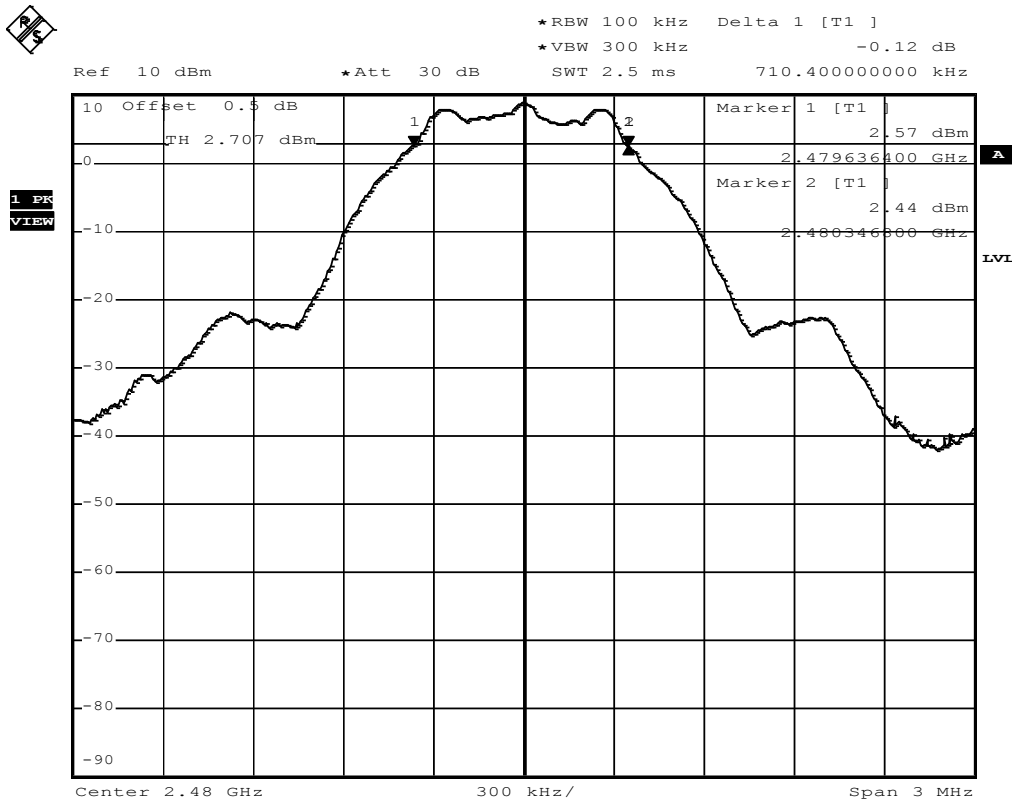
EUT	Bluetooth headset
Model	OET16 / BLE
Approval Holder	GN-Netcom A/S / Ord.: G0M-1308-3117
Temperature / Voltage	Tnom / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15.247 (a)2
Comment 1	Minimum 6 dB Bandwidth
Comment 2	Channel 2440 MHz, GFSK
Comment 3	procedure 8.1 DTS BW (558074 D01 DTS)



Comment: 6 dB bandwidth: 706.8 KHz > 500 KHz; verdict: PASS
 Date: 2.SEP.2013 09:15:38


6 dB Bandwidth – F_{HIGH}
**FCC part 15.247 (a)2
Minimum 6 dB Bandwidth**

EUT	Bluetooth headset
Model	OET16 / BLE
Approval Holder	GN-Netcom A/S / Ord.: G0M-1308-3117
Temperature / Voltage	Tnom / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15.247 (a)2
Comment 1	Minimum 6 dB Bandwidth
Comment 2	Channel 2480 MHz, GFSK
Comment 3	procedure 8.1 DTS BW (558074 D01 DTS)




Comment: 6 dB bandwidth: 710.4 KHz > 500 KHz; verdict: PASS
 Date: 2.SEP.2013 09:18:38

3.3 Test Conditions and Results – Maximum peak conducted power

Maximum peak conducted power acc. FCC 15.247 / IC RSS-210		Verdict: PASS
EUT requirement rule parts and clause	Reference	
	FCC 15.247(b)(3) / IC RSS-210 A8.4	
Test according to measurement reference	Reference Method	
	FCC KDB Publication No. 558074	
Test frequency range	Tested frequencies	
	$F_{\text{LOW}} / F_{\text{MID}} / F_{\text{HIGH}}$	
Measurement mode	Peak	
Maximum antenna gain	-1.41 dBi \Rightarrow Limit correction = 0 dB	
Limits		
1 W (30 dBm)		
The conducted output power limit specified above is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in the table, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.		
Test setup		
 <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] </pre>		
Test procedure		
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Center frequency set to test channel center frequency 3. Span set to twice the 20 dB bandwidth and detector to peak and max hold 4. Resolution bandwidth is set to 3 MHz 5. Peak conducted power is determined from peak of spectrum envelope 		

Test results							
Channel	Frequency [MHz]	Voltage	Mode	Peak power [dbm]	Peak power [W]	Limit [dBm]	Margin [dB]
F _{LOW}	2402	V _{nom} = 3.3V	Transmit	7.82	0.01	30	-22.18
F _{MID}	2440	V _{nom} = 3.3V	Transmit	8.85	0.01	30	-21.15
F _{HIGH}	2480	V _{nom} = 3.3V	Transmit	8.85	0.01	30	-21.15
Comment:							

3.4 Test Conditions and Results – Power spectral density

Power spectral density acc. FCC 15.247 / IC RSS-210				Verdict: PASS		
EUT requirement rule parts and clause	Reference					
	FCC 15.247(e) / IC RSS-210 A8.2					
Test according to measurement reference	Reference Method					
	FCC KDB Publication No. 558074					
Test frequency range	Tested frequencies					
	$F_{LOW} / F_{MID} / F_{HIGH}$					
Measurement mode	Peak					
Limits						
8 dBm / 3 kHz						
Test setup						
						
Test procedure						
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Center frequency set to test channel center frequency 3. Span is set large enough to capture maximum emissions in passband, RBW is set to 3kHz 4. Peak power density is determined from peak emission of envelope 						
Test results						
Channel	Frequency [MHz]	Test mode	Peak frequency [MHz]	Peak power density [dBm]	Limit [dBm/3kHz]	Margin [dB]
F_{LOW}	2402	Transmit	2401.994	-1.0	8.0	-09.00
F_{MID}	2442	Transmit	2439.994	0.58	8.0	-07.42
F_{HIGH}	2480	Transmit	2479.988	0.73	8.0	-07.27
Comments:						

3.5 Test Conditions and Results – AC power line conducted emissions

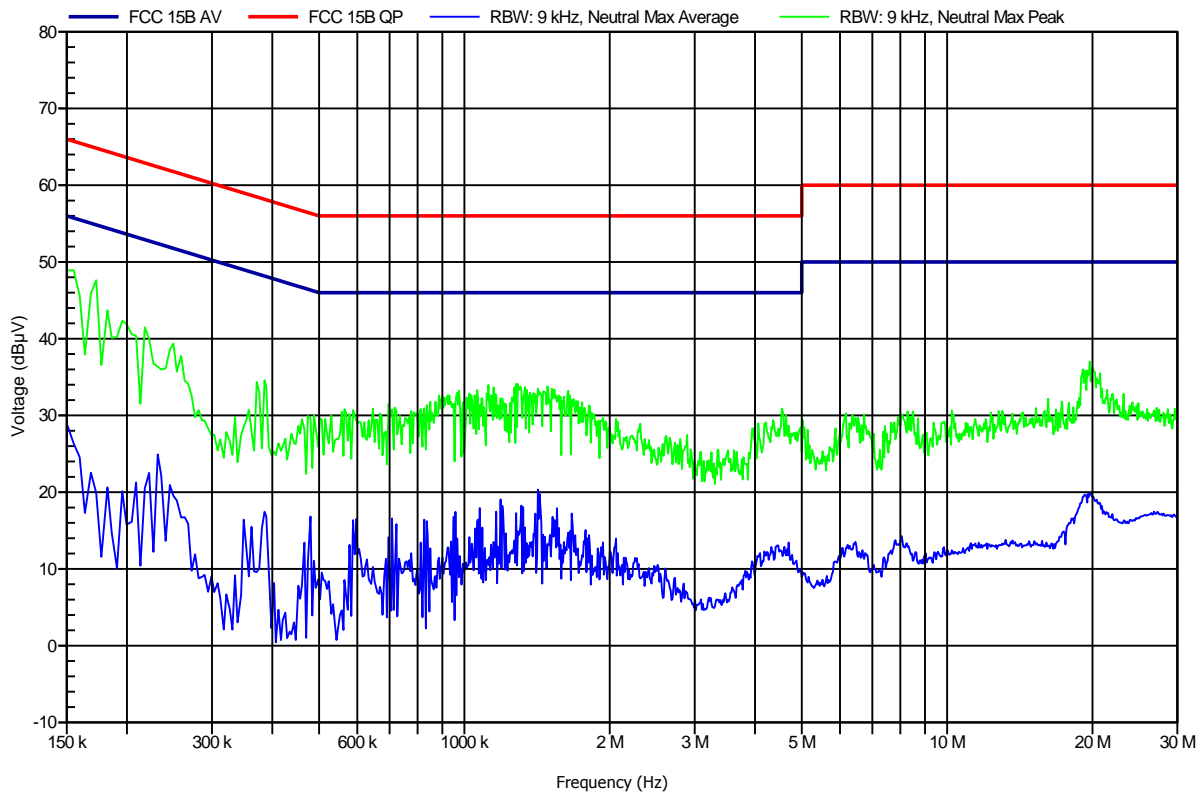
Power line conducted emissions acc. FCC 47 CFR 15.207 / IC RSS-Gen		Verdict: PASS		
Test according referenced standards	Reference Method			
	ANSI C63.4			
Fully configured sample scanned over the following frequency range	Frequency range			
	0.15 MHz to 30 MHz			
Points of Application	Application Interface			
AC Mains	LISN			
EUT test mode	AC power line			
Limits and results				
Frequency [MHz]	Quasi-Peak [dB μ V]	Result	Average [dB μ V]	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 part 15B

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 3,7 V DC (battery)
 LISN: ESH2-Z5 N
 Mode: active; charging USB
 Test Date: 2013-08-19
 Note:

Index 1

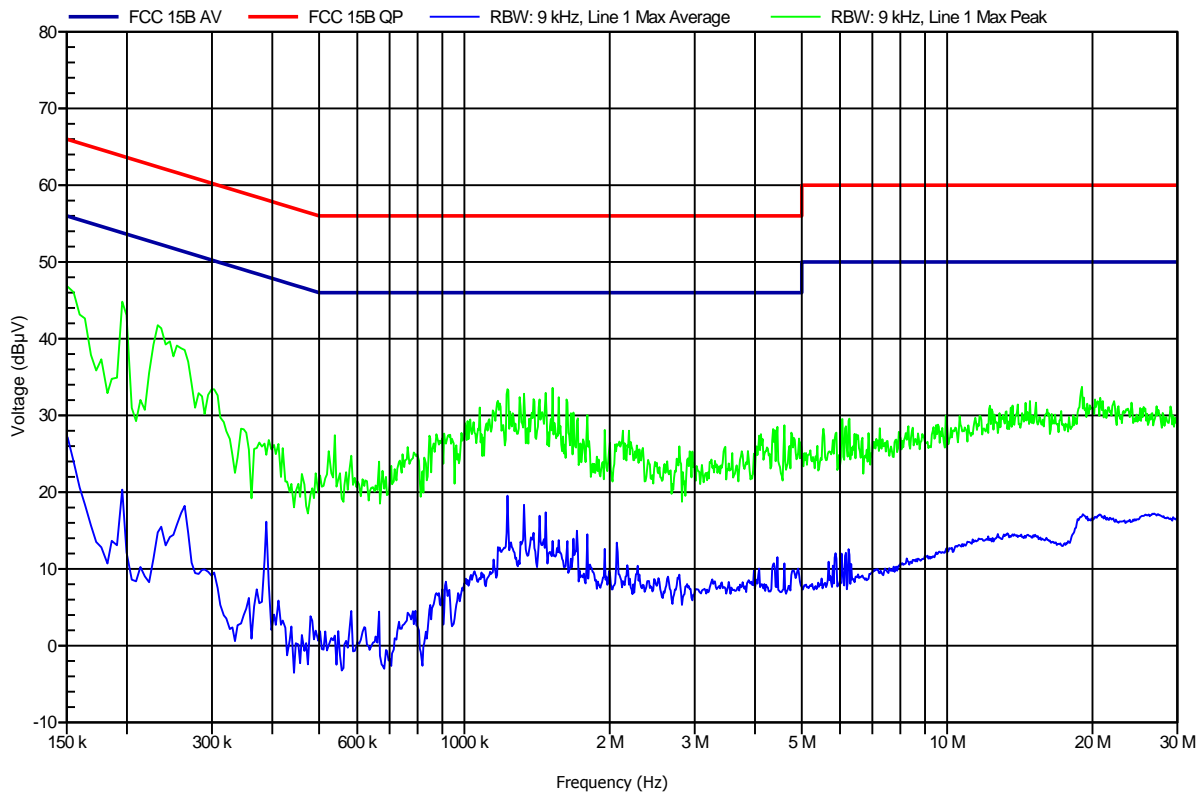


Conducted Emissions
EMI voltage test in the ac-mains according to FCC part 15B

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Handrik
 Test Conditions: Tnom: 22°C, Unom: 3,7 V DC (battery)
 LISN: ESH2-Z5 L
 Mode: active; charging USB
 Test Date: 2013-08-19
 Note:


Index 2



Test Report No.: G0M-1308-3117-TFC247W-V01

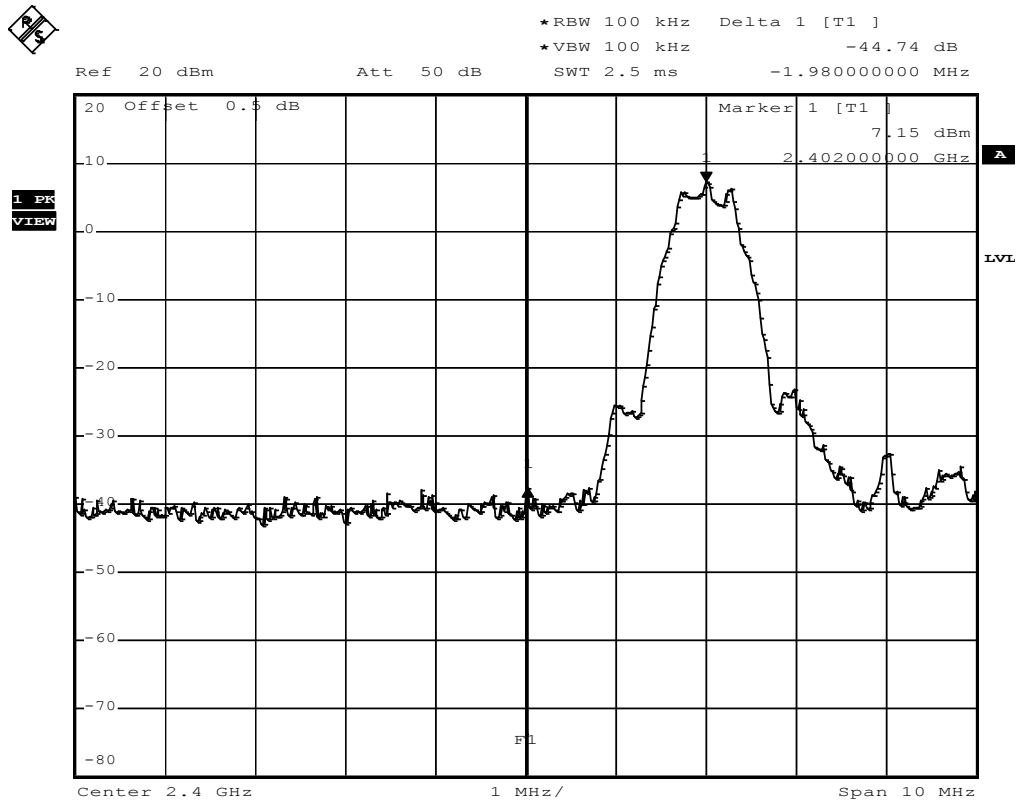
 Eurofins Product Service GmbH
 Storkower Str. 38c, D-15526 Reichenwalde, Germany

3.6 Test Conditions and Results – Band edge compliance

Band-edge compliance acc. FCC 15.247 / IC RSS-210		Verdict: PASS			
EUT requirement rule parts and clause	Reference				
	FCC 15.247(d) / IC RSS-210 A8.5				
Test according to measurement reference	Reference Method				
	FCC KDB Publication No. 558074				
Test frequency range	Tested frequencies				
	F_{LOW} / F_{HIGH}				
Measurement mode	Peak				
Limits					
Limit			Condition		
≤ -20 dB / 100 kHz			Peak power measurement detector = Peak		
≤ -30 dB / 100 kHz			Peak power measurement detector = RMS		
Test setup					
 <pre> graph LR SA[Spectrum Analyzer] --- EUT[EUT] </pre>					
Test procedure					
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span set around lower band edge and detector is set to peak and max hold 3. Resolution bandwidth is set to 100 kHz 4. Markers are set to peak emission levels within frequency band and outside frequency band 5. Band edge attenuation is determined from level difference 					
Test results					
Channel	Frequency [MHz]	Mode	Level [dBc]	Limit [dBc]	Margin [dB]
F_{LOW}	2402	Transmit	-44.74	-20	-24.74
F_{HIGH}	2480	Transmit	-47.18	-20	-27.18
Comments:					

Band-edge compliance
FCC part 15.247
Band-edge compliance of RF conducted emissions

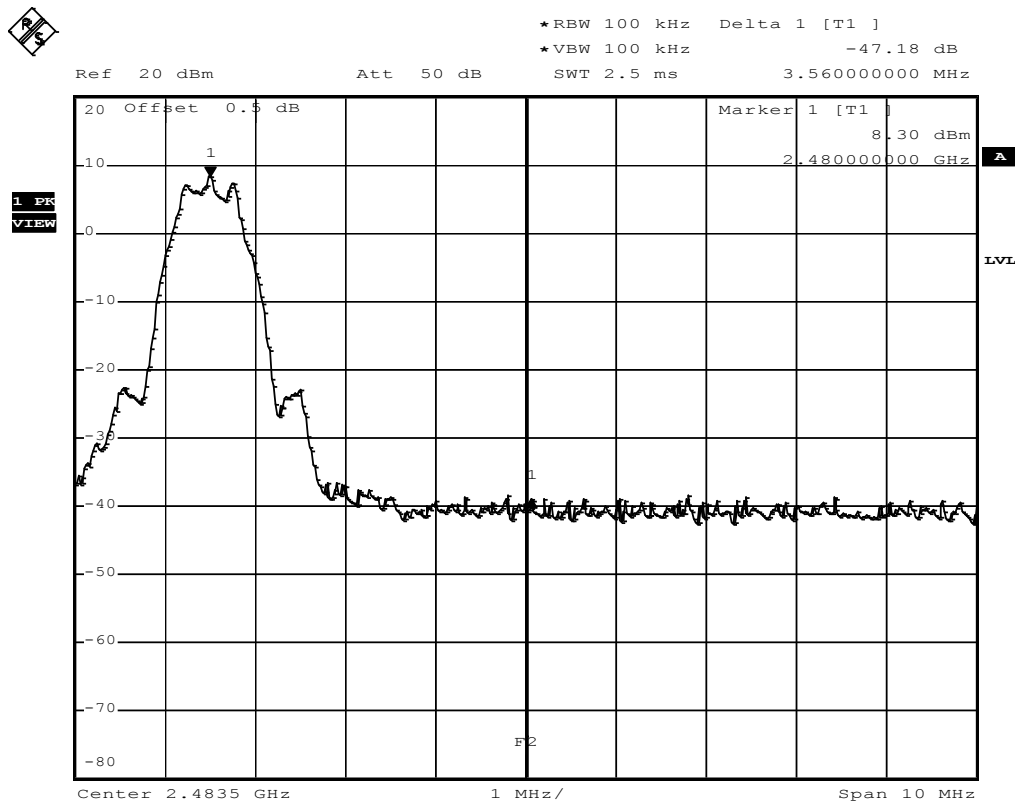
EUT	Bluetooth headset
Model	OET16 / BLE
Approval Holder	GN-Netcom A/S / Ord.: G0M-1308-3117
Temperature / Voltage	Tnom / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(c)
Comment 1	Band-edge compliance
Comment 2	Channel.: 2402 MHz
Comment 3	GFSK



Comment: Limit: Marker Delta value >20 dB; Result: PASS
 Date: 2.SEP.2013 12:53:53


Band-edge compliance
FCC part 15.247
Band-edge compliance of RF conducted emissions

EUT	Bluetooth headset
Model	OET16 / BLE
Approval Holder	GN-Netcom A/S / Ord.: G0M-1308-3117
Temperature / Voltage	Tnom / Vnom
Test Site / Operator	Eurofins Product Service GmbH / Mr. Treffke
Test Specification	FCC part 15 section 247(c)
Comment 1	Band-edge compliance
Comment 2	Channel.: 2480 MHz
Comment 3	GFSK



Comment: Limit: Marker Delta value >20 dB; Result: PASS
 Date: 2.SEP.2013 12:51:50

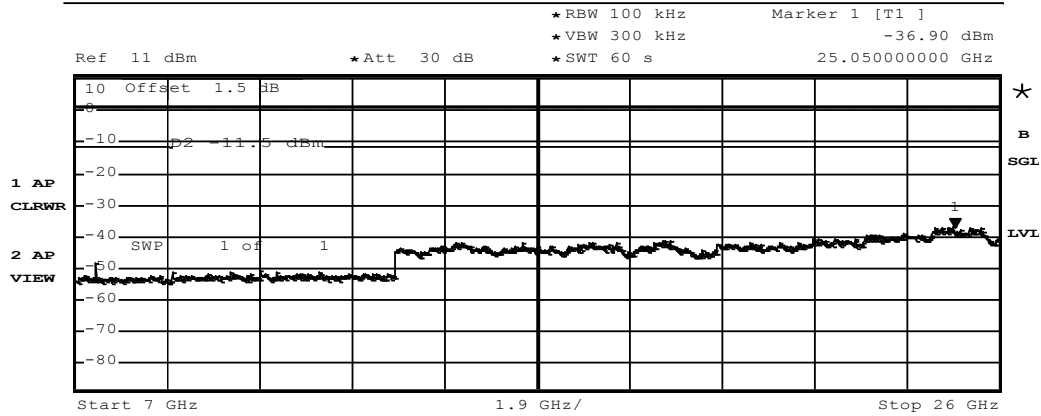
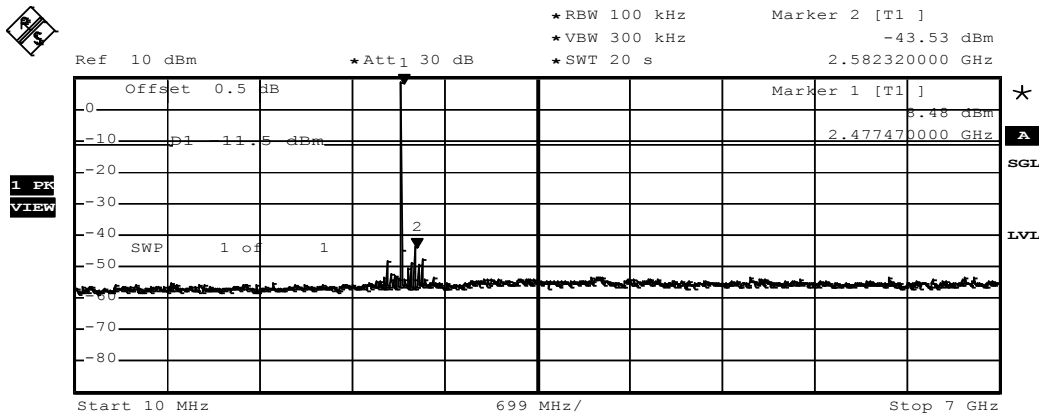
3.7 Test Conditions and Results – Conducted spurious emissions

Conducted spurious emissions acc. FCC 15.247 / IC RSS-210				Verdict: PASS			
EUT requirement rule parts and clause		Reference					
		FCC 15.247(d) / IC RSS-210 A8.5					
Test according to measurement reference		Reference Method					
		FCC KDB Publication No. 558074					
Test frequency range		Tested frequencies					
		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							
							
Test procedure							
<ol style="list-style-type: none"> 1. EUT set to test mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth is set to 100 kHz and detector to peak and max hold 4. Markers are set to peak emission levels within frequency band 5. Emission level is determined by second marker on emission peak 6. Attenuation is determined from level difference 							
Test results							
Channel	Frequency [MHz]	Mode	Emission [MHz]	Emission Level [dbm]	Peak power [dBm]	Limit [dBm]	Margin [dB]
F _{LOW}	2402	Transmit	25.525	-37.28	5.98	-14.00	-19.98
F _{MID}	2440	Transmit	2472.7	-36.48	7.09	-12.09	-19.18
F _{HIGH}	2480	Transmit	25.05	36.90	8.48	-11.50	-19.98
Comments:							

Conducted spurious emissions – F_{HIGH}

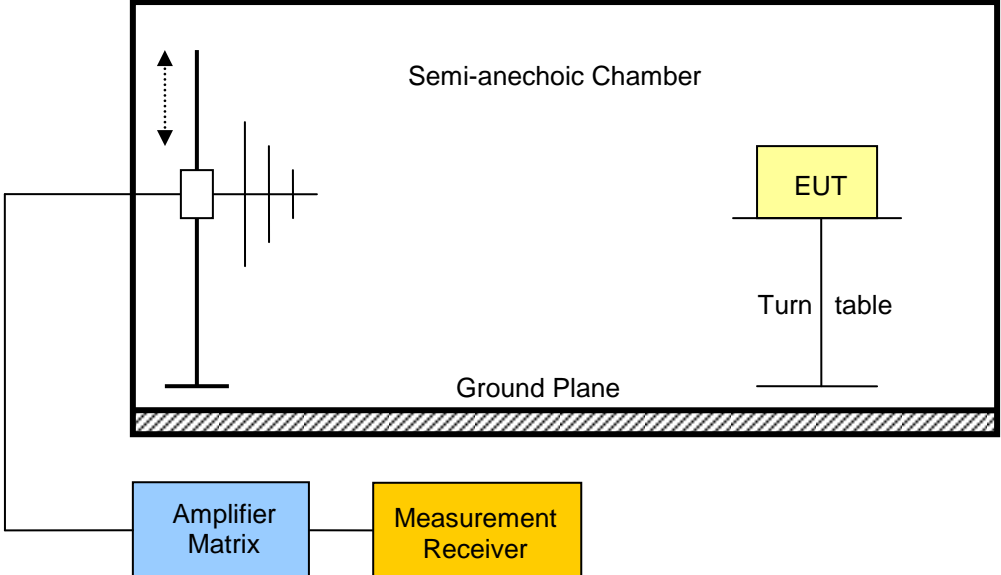
FCC part 15.247 (d)
Spurious Emissions

EUT Bluetooth headset
 Model OET16 / BLE
 Approval Holder GN-Netcom A/S / Ord.: G0M-1308-3117
 Temperature / Voltage Tnom / Vnom
 Test Site / Operator Eurofins Product Service GmbH / Mr. Treffke
 Test Specification FCC part 15.247 (d)
 Comment 1 Spurious Emissions conducted
 Comment 2 Channel 2480 MHz
 Comment 3 Emissions in non-restricted frequency bands 558074 D01 Meas Guidance



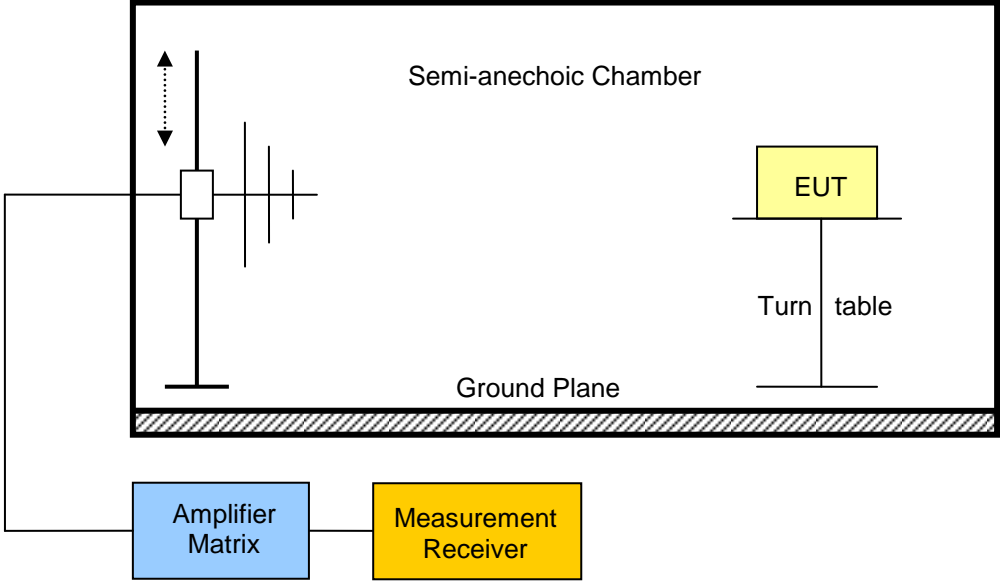
Date: 2.SEP.2013 12:22:20

3.8 Test Conditions and Results – Transmitter radiated emissions

Transmitter radiated emissions acc. FCC 47 CFR 15.247 / IC RSS-210				Verdict: PASS	
Test according referenced standards		Reference Method			
		FCC 15.247(d) / IC RSS-210 A8.5			
Test according to measurement reference		Reference Method			
		FCC KDB Publication No. 558074 / ANSI C63.4			
Test frequency range		Tested frequencies			
		30 MHz – 10 th Harmonic			
Limits					
Frequency range [MHz]	Detector	Limit [μ V/m]	Limit [dB μ V/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	
<p>Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).</p> <p>When average radiated emission measurements are specified, including average emission measurements below 1000 MHz, there also is a limit on the peak level of the radio frequency emissions. The limit on peak radio frequency emissions is 20 dB above the maximum permitted average emission limit applicable to the equipment under test.</p>					
Test setup					
 <p>The diagram illustrates the test setup. A Semi-anechoic Chamber is shown with a Ground Plane at the bottom. Inside the chamber, an Amplifier Matrix is connected to a Measurement Receiver. The Equipment Under Test (EUT) is placed on a Turn table within the chamber. A vertical antenna is positioned to the left of the chamber, connected to the Amplifier Matrix. The chamber is labeled 'Semi-anechoic Chamber' and the ground plane is labeled 'Ground Plane'. The EUT is labeled 'EUT' and the turn table is labeled 'Turn table'. The Amplifier Matrix is labeled 'Amplifier Matrix' and the Measurement Receiver is labeled 'Measurement Receiver'.</p>					

Test procedure										
1. EUT set to test mode (Communication tester is used if needed) 2. Span it set according to measurement range 3. Resolution bandwidth below 1 GHz is set according to CISPR 16 with peak/quasi-peak detector and RBW of 1 MHz with peak/average detector is used above 1 GHz 4. Markers are set to peak emission levels within restricted bands										
Test results										
Channel	Frequency [MHz]	Mode	Emission [MHz]	Level [dB μ V/m]	Det.	Pol.	Limit [dB μ V/m]	Limit dist. [m]*	Margin [dB]	
F _{LOW}	2402	Transmit	No significant spurious emissions							
F _{MID}	2442	Transmit	4879	57.15	pk	hor	74.00	3	-16.85	
F _{MID}	2442	Transmit	4879	48.20	avg	hor	54.00	3	-05.80	
F _{MID}	2442	Transmit	4879	56.82	pk	ver	74.00	3	-17.18	
F _{MID}	2442	Transmit	4879	47.41	avg	ver	54.00	3	-06.59	
F _{MID}	2442	Transmit	7319	59.53	pk	hor	74.00	3	-14.47	
F _{MID}	2442	Transmit	7319	49.21	avg	hor	54.00	3	-04.79	
F _{MID}	2442	Transmit	7319	55.14	pk	ver	74.00	3	-18.86	
F _{MID}	2442	Transmit	7319	43.56	avg	ver	54.00	3	-10.44	
F _{HIGH}	2480	Transmit	2483.5	61.80	pk	hor	74.00	3	-12.20	
F _{HIGH}	2480	Transmit	2483.5	51.10	RMS	hor	54.00	3	-02.90	
F _{HIGH}	2480	Transmit	2483.5	60.28	pk	ver	74.00	3	-13.72	
F _{HIGH}	2480	Transmit	2483.5	49.59	RMS	ver	54.00	3	-04.41	
F _{HIGH}	2480	Transmit	4959	58.04	pk	ver	74.00	3	-15.96	
F _{HIGH}	2480	Transmit	4959	49.80	avg	ver	54.00	3	-04.20	
F _{HIGH}	2480	Transmit	4960	58.12	pk	hor	74.00	3	-15.88	
F _{HIGH}	2480	Transmit	4960	50.60	avg	hor	54.00	3	-03.40	
F _{HIGH}	2480	Transmit	7439	60.31	pk	hor	74.00	3	-13.69	
F _{HIGH}	2480	Transmit	7439	49.22	avg	hor	54.00	3	-04.78	
F _{HIGH}	2480	Transmit	7439	55.61	pk	ver	74.00	3	-18.39	
F _{HIGH}	2480	Transmit	7439	44.65	avg	ver	54.00	3	-09.35	
Comments: * Physical distance between EUT and measurement antenna.										

3.9 Test Conditions and Results – Receiver radiated emissions

Receiver radiated emissions acc. IC RSS-210			Verdict: PASS	
Test according referenced standards	Reference Method			
	IC RSS-210 A8.5			
Test according to measurement reference	Reference Method			
	ANSI C63.4			
Test frequency range	Tested frequencies			
	30 MHz – 3 th Harmonic			
EUT test mode	Receive			
Limits				
Frequency range [MHz]	Detector	Limit [$\mu\text{V}/\text{m}$]	Limit [$\text{dB}\mu\text{V}/\text{m}$]	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]
F _{MID}	2442	7998	49.67	304.44	pk	500	-195.56

Comments:

* Physical distance between EUT and measurement antenna.

** Emission level corresponds to ambient noise floor

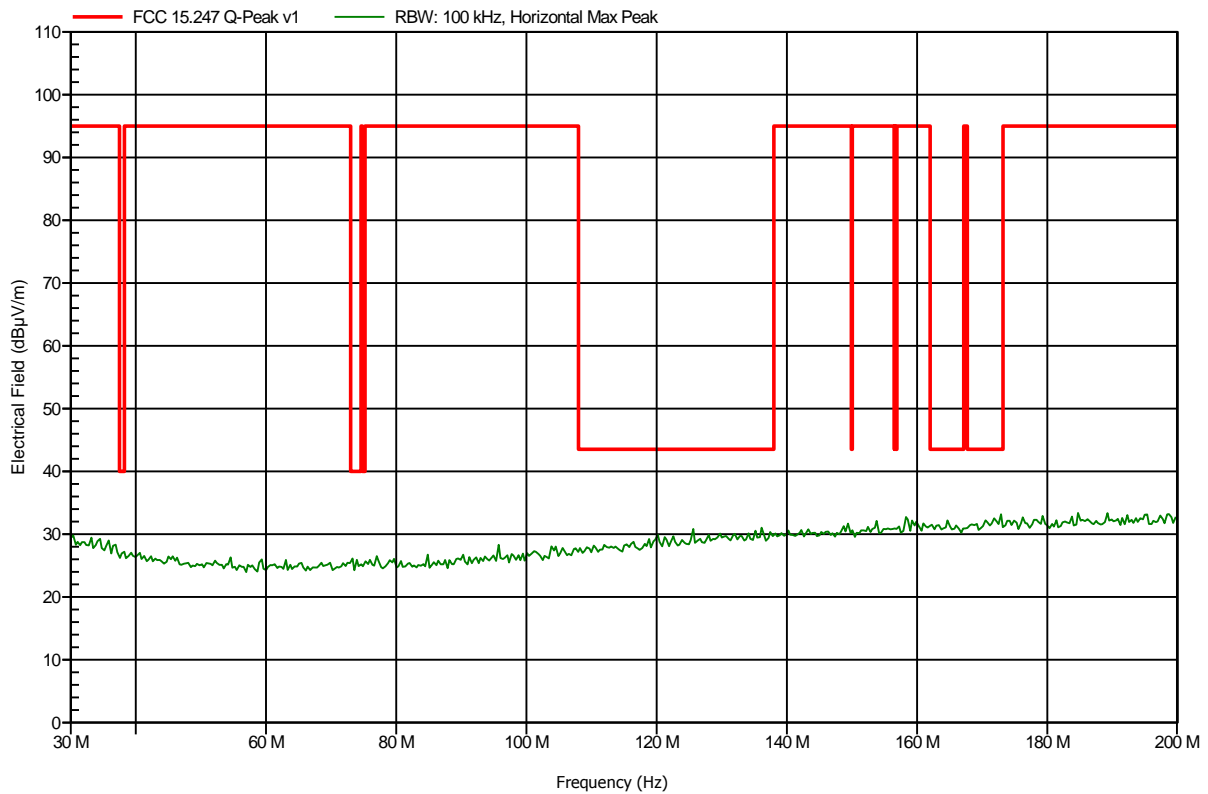
ANNEX A Transmitter radiated spurious emissions

Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	TX; BLE, Ch.0, 2402 MHz
Test Date:	2013-08-30
Note:	worst case

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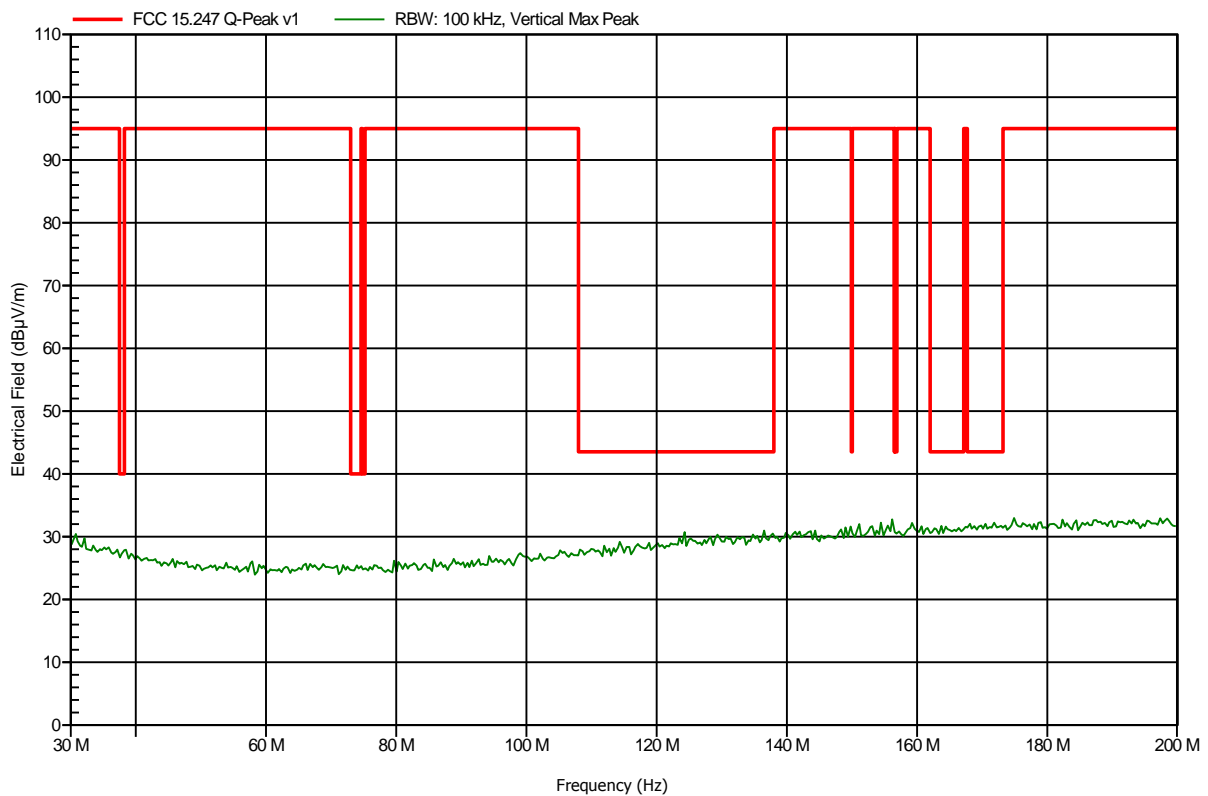


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	TX; BLE, Ch.0, 2402 MHz
Test Date:	2013-08-30
Note:	worst case

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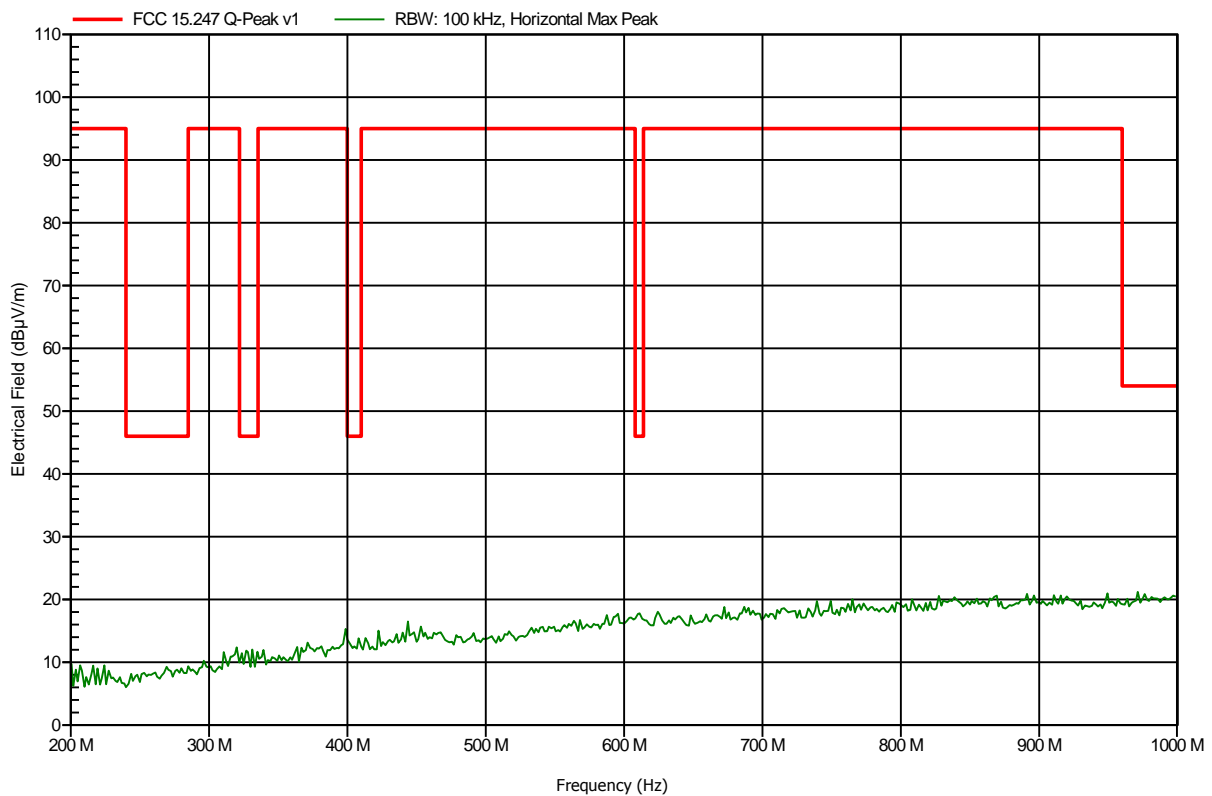


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	TX; BLE, Ch.0, 2402 MHz
Test Date:	2013-08-30
Note:	worst case

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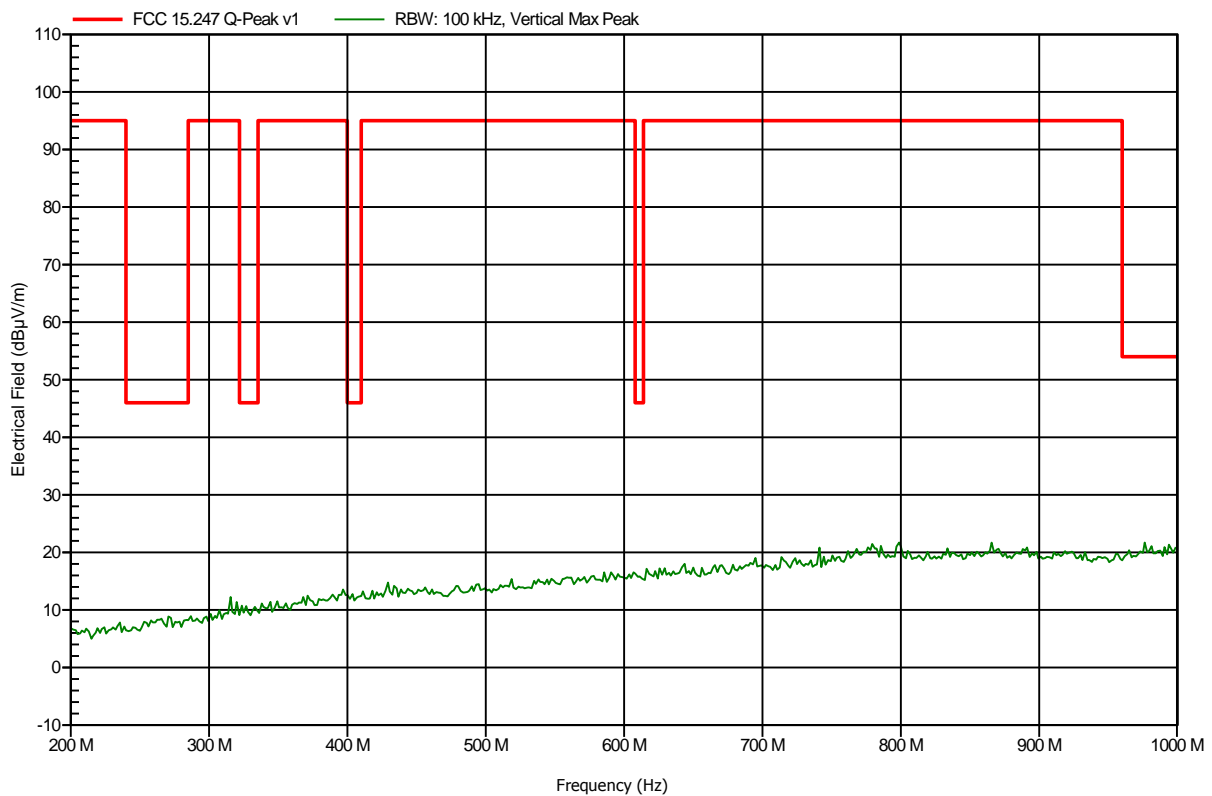


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	TX; BLE, Ch.0, 2402 MHz
Test Date:	2013-08-30
Note:	worst case

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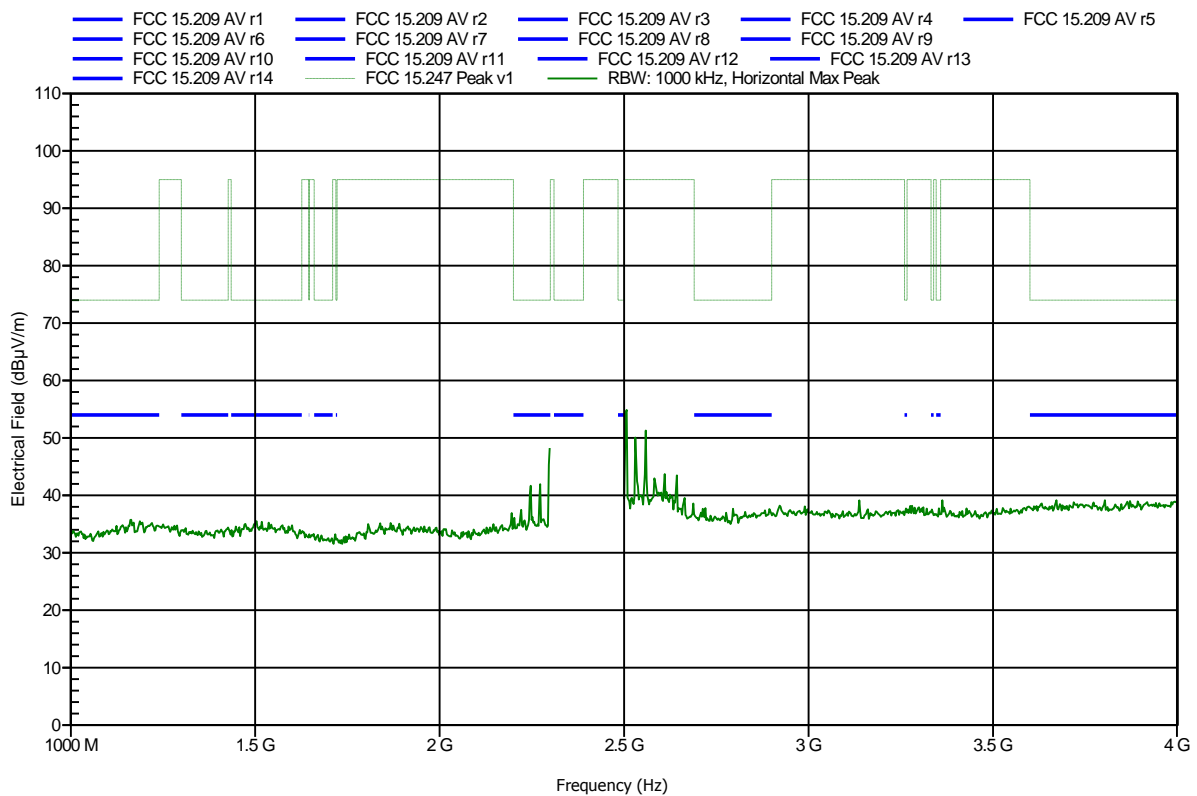


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BLE, Ch0, 2402 MHz
 Test Date: 2013-08-30
 Note:

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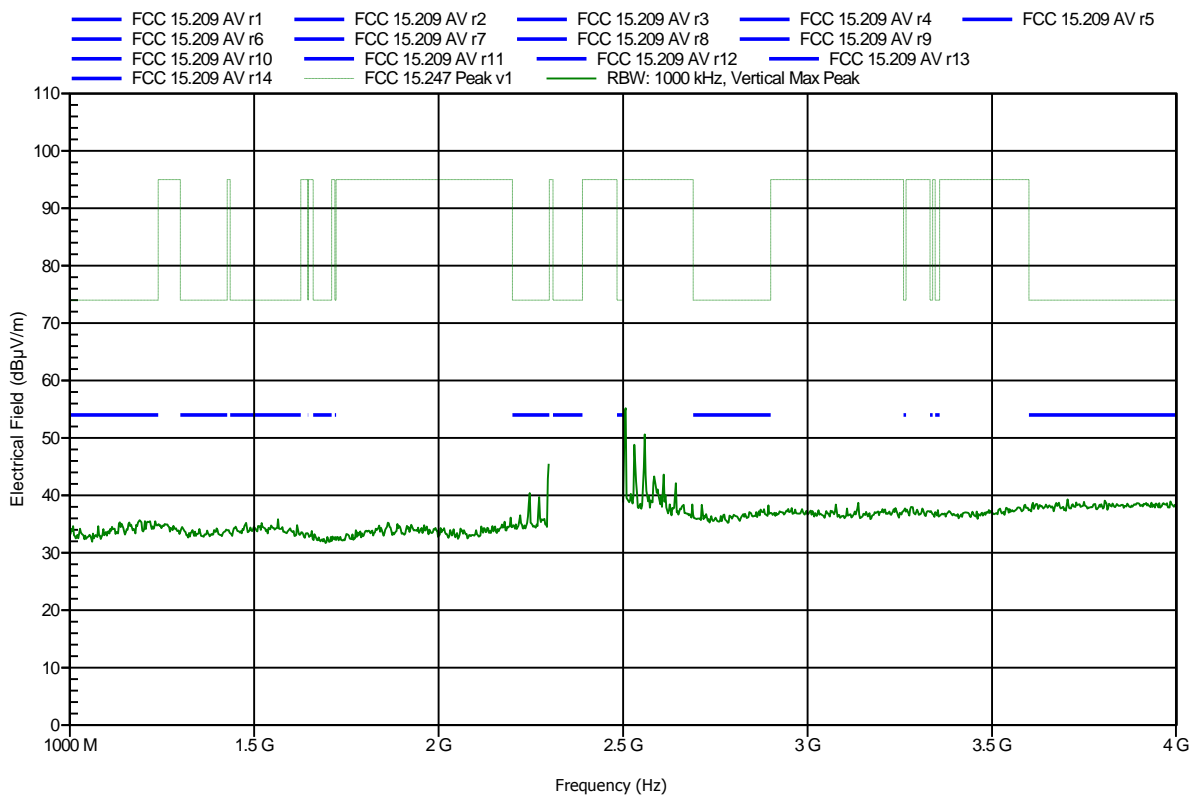


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BLE, Ch0, 2402 MHz
 Test Date: 2013-08-30
 Note:

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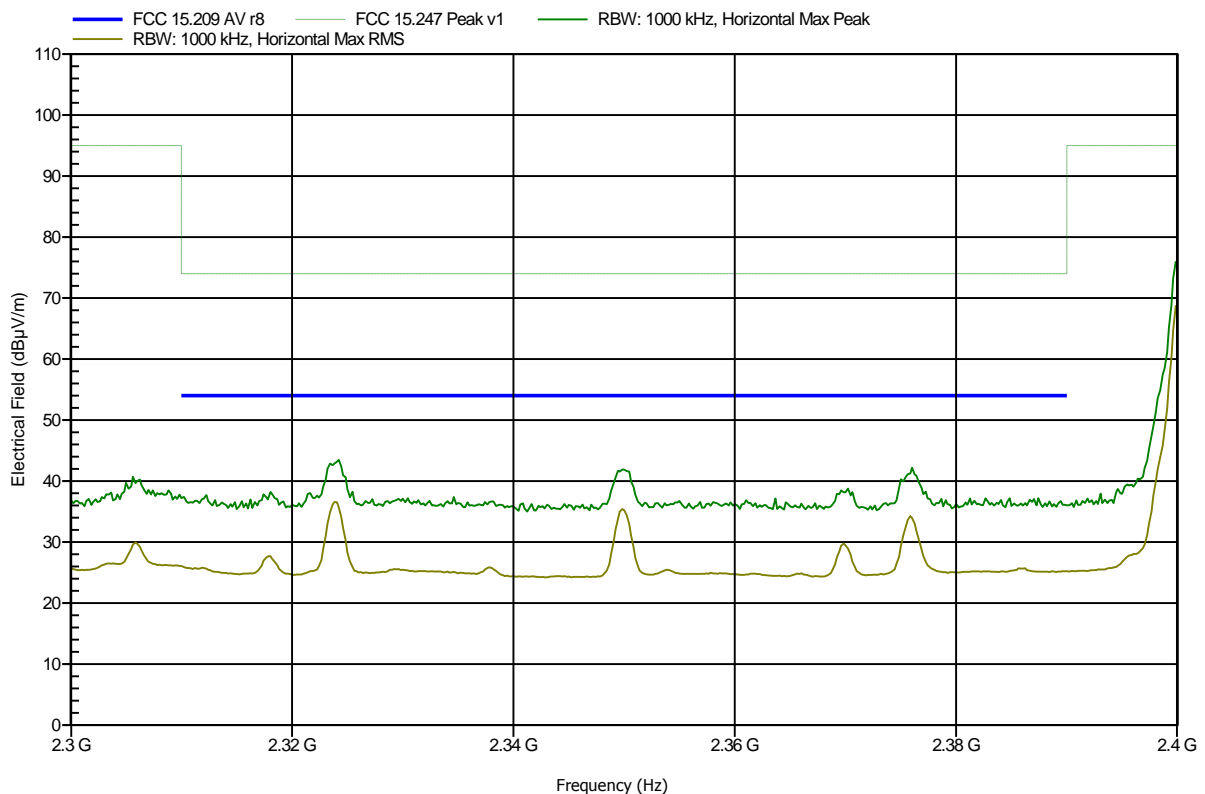


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; BLE, Ch0, 2402 MHz
Test Date:	2013-08-30
Note:	lower bandedge

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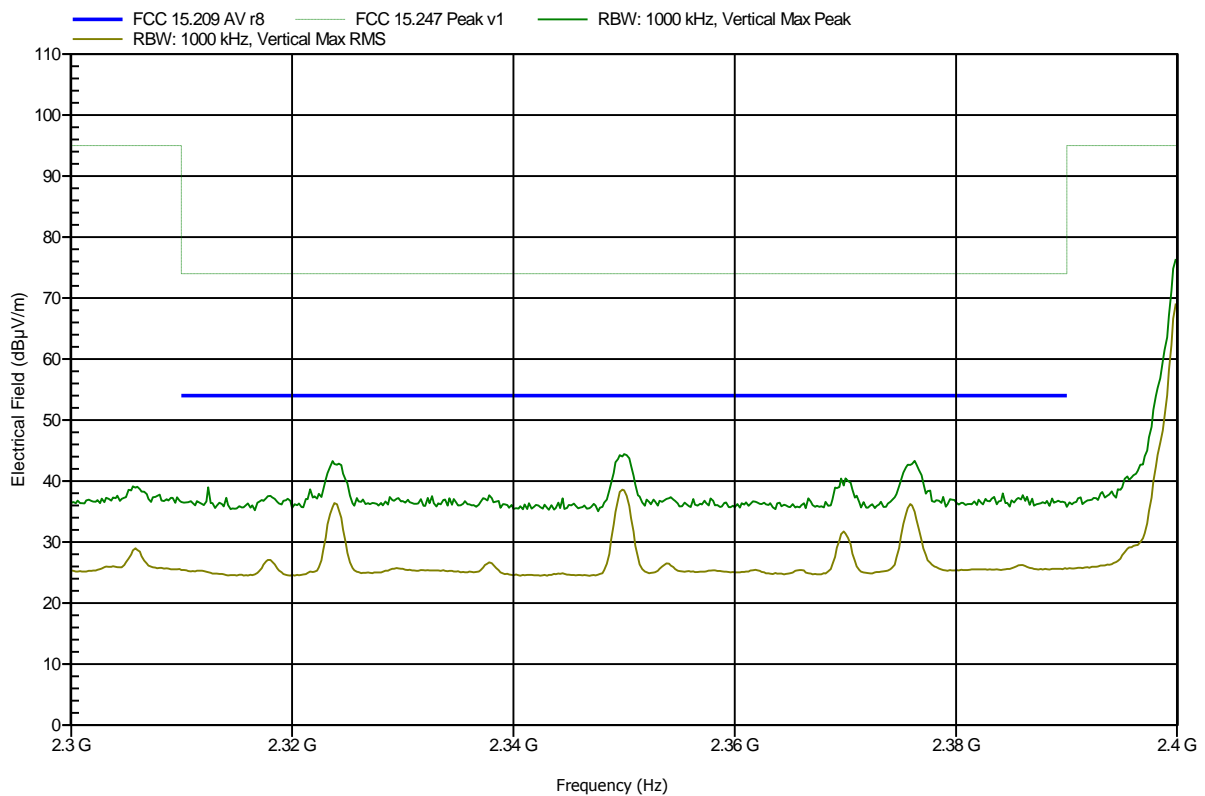


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; BLE, Ch0, 2402 MHz
Test Date:	2013-08-30
Note:	lower bandedge

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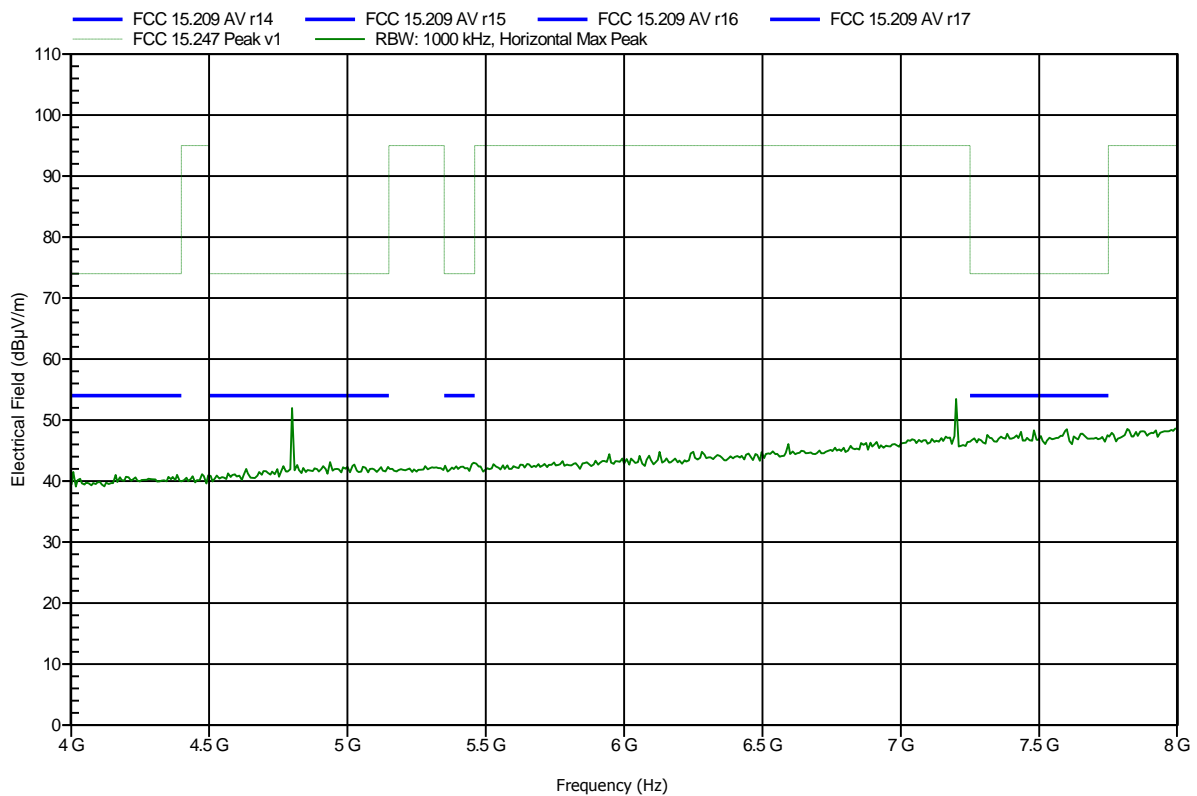


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	TX; BLE, Ch0, 2402 MHz
Test Date:	2013-08-30
Note:	

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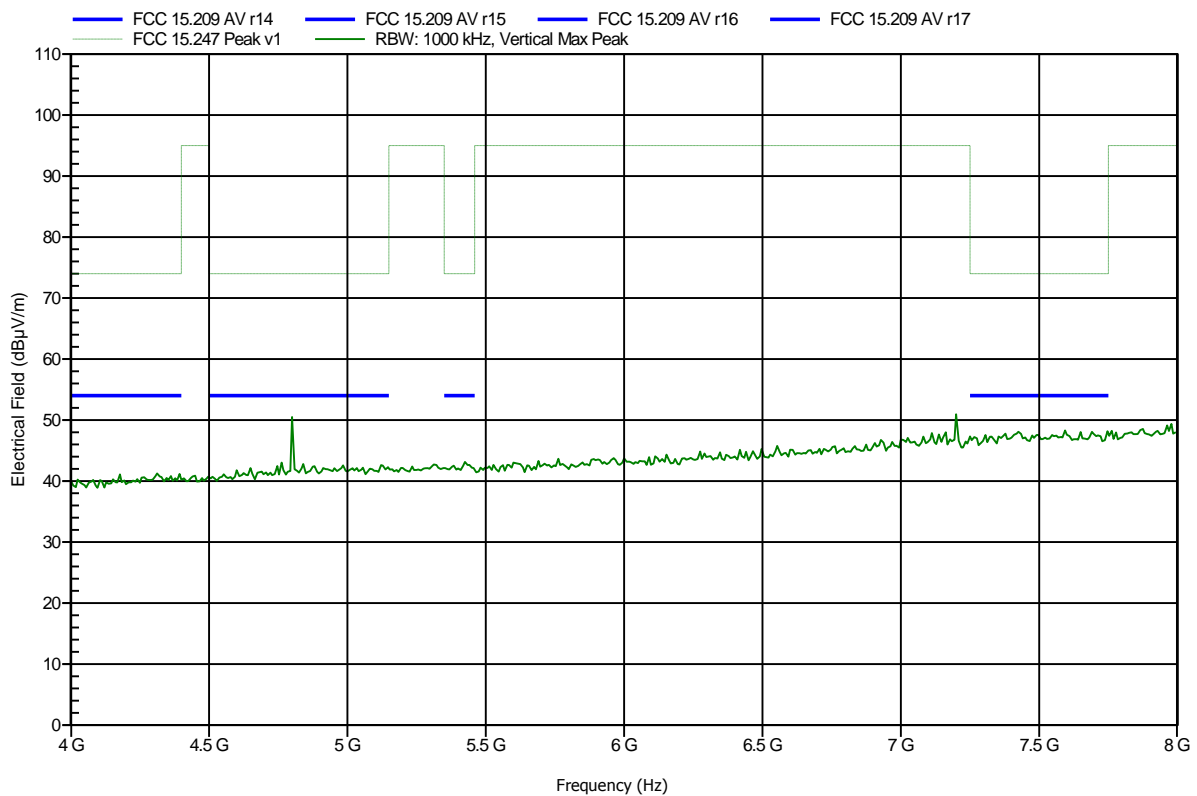


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	TX; BLE, Ch0, 2402 MHz
Test Date:	2013-08-30
Note:	

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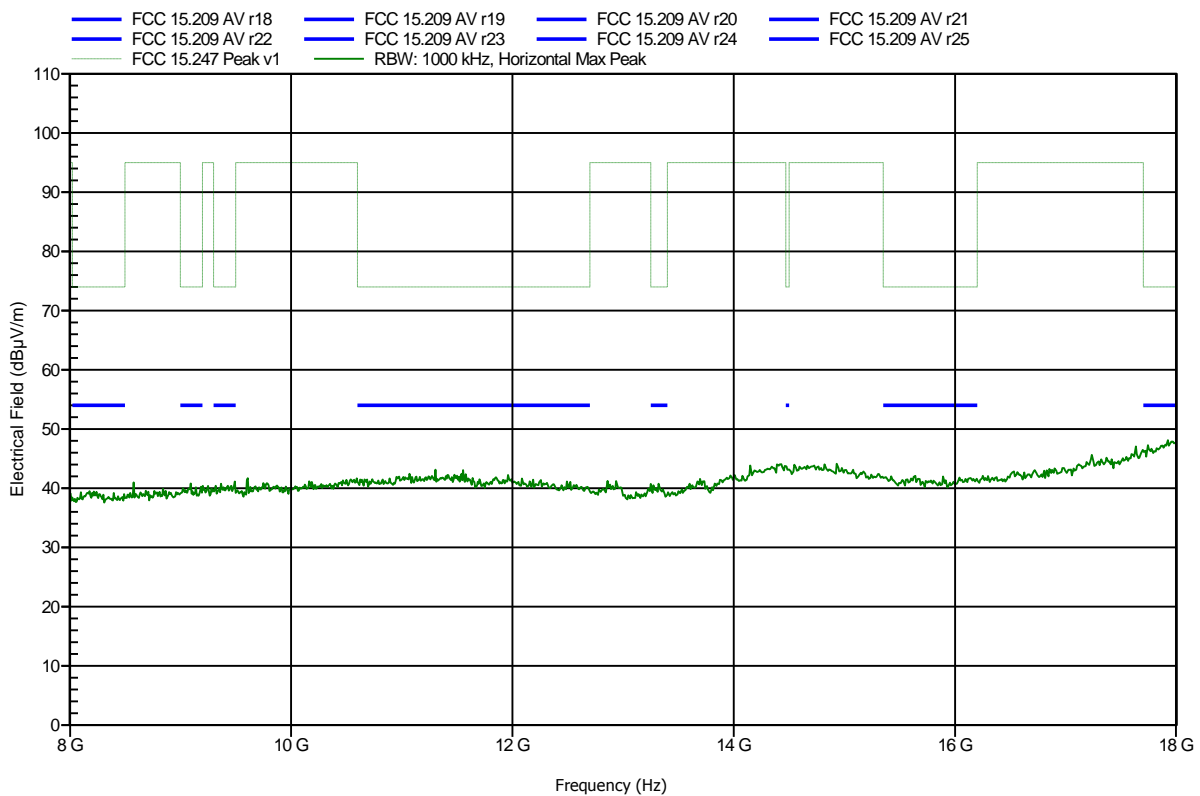


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 100 cm converted to 3m
 Mode: TX; BLE, Ch0, 2402 MHz
 Test Date: 2013-08-30
 Note:

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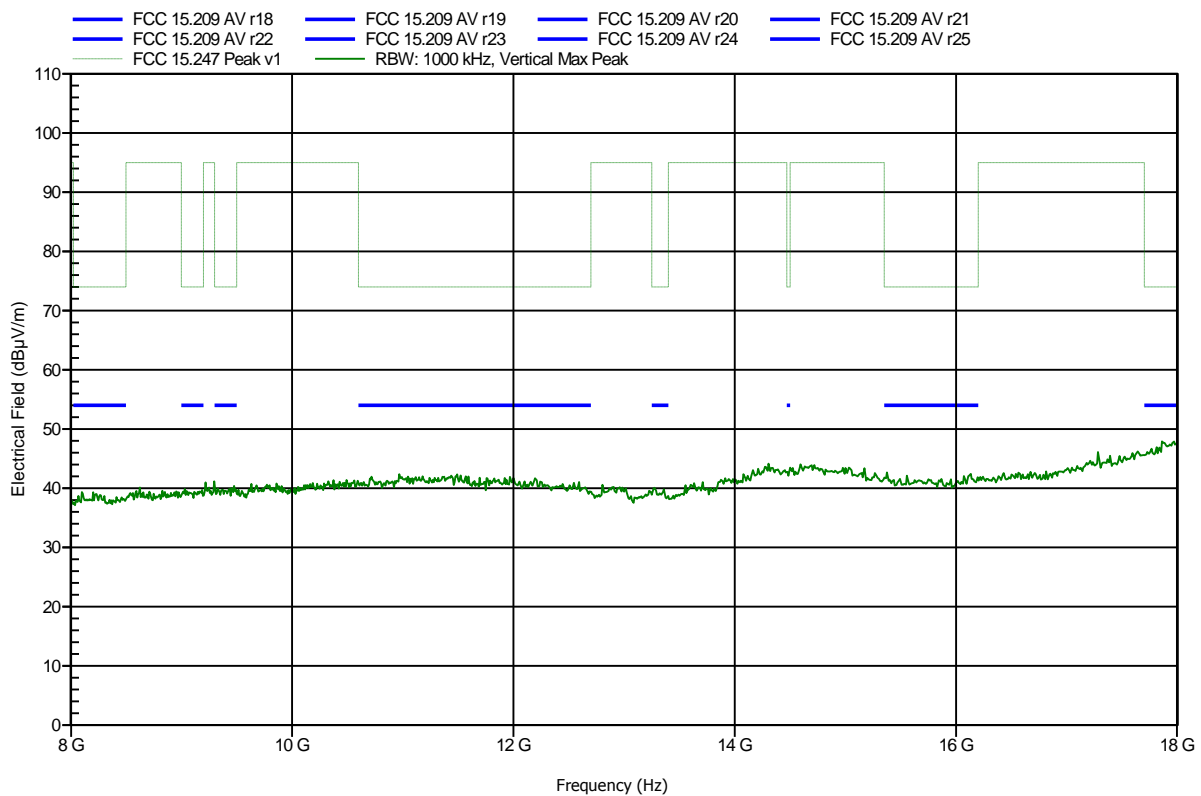


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 100 cm converted to 3m
 Mode: TX; BLE, Ch0, 2402 MHz
 Test Date: 2013-08-30
 Note:

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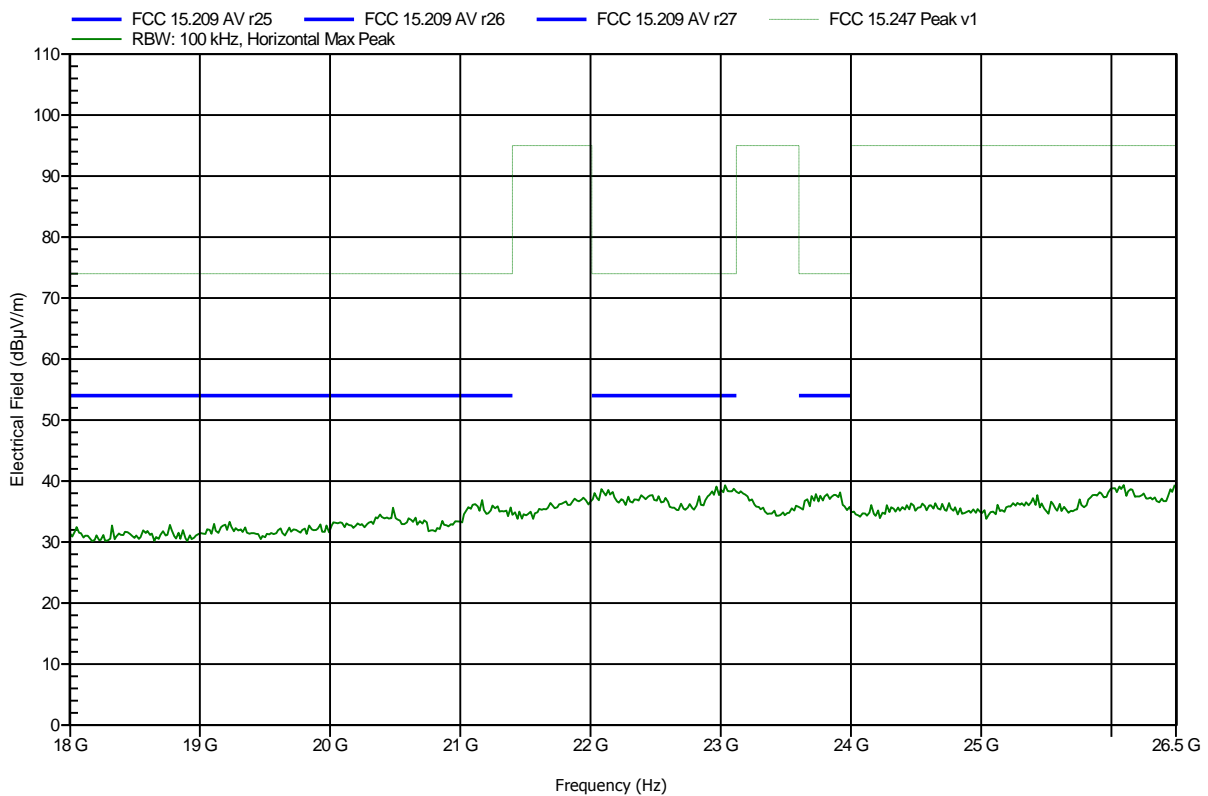


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	100 cm
Mode:	TX; BLE, Ch0, 2402 MHz
Test Date:	2013-08-30
Note:	

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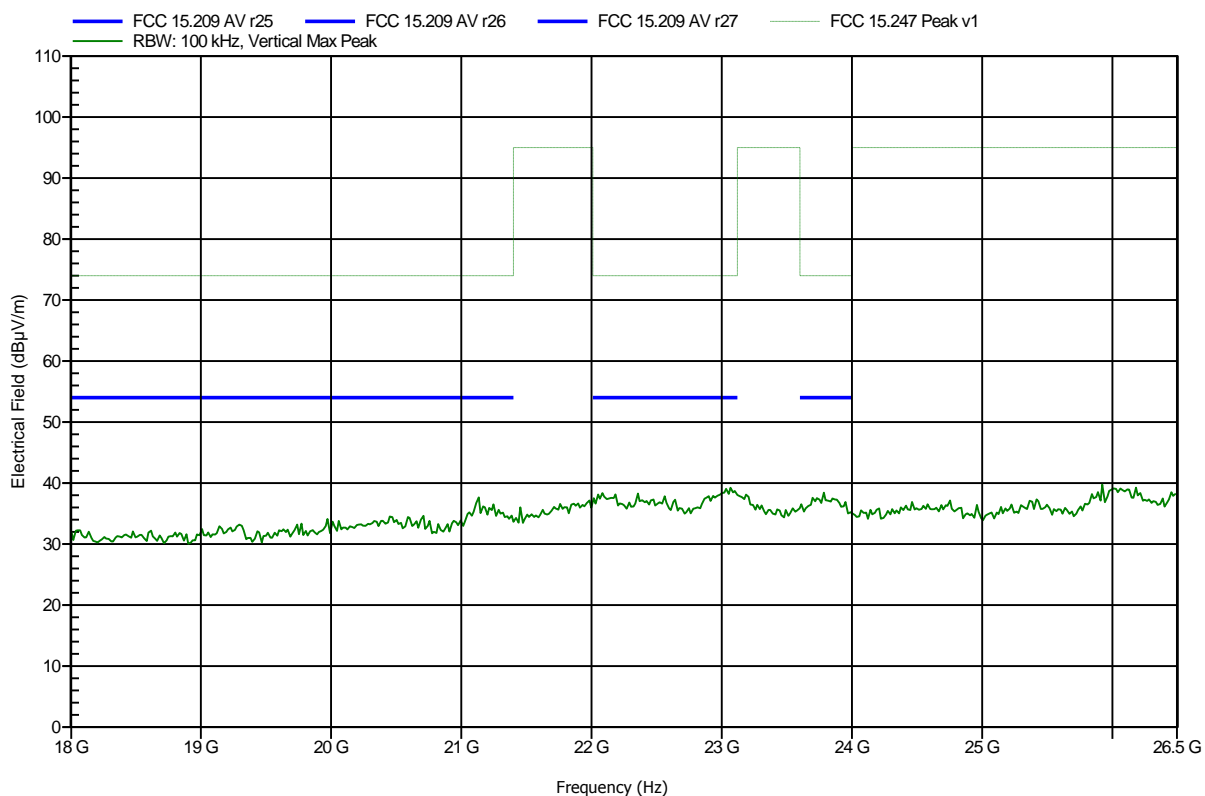


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	100 cm
Mode:	TX; BLE, Ch0, 2402 MHz
Test Date:	2013-08-30
Note:	

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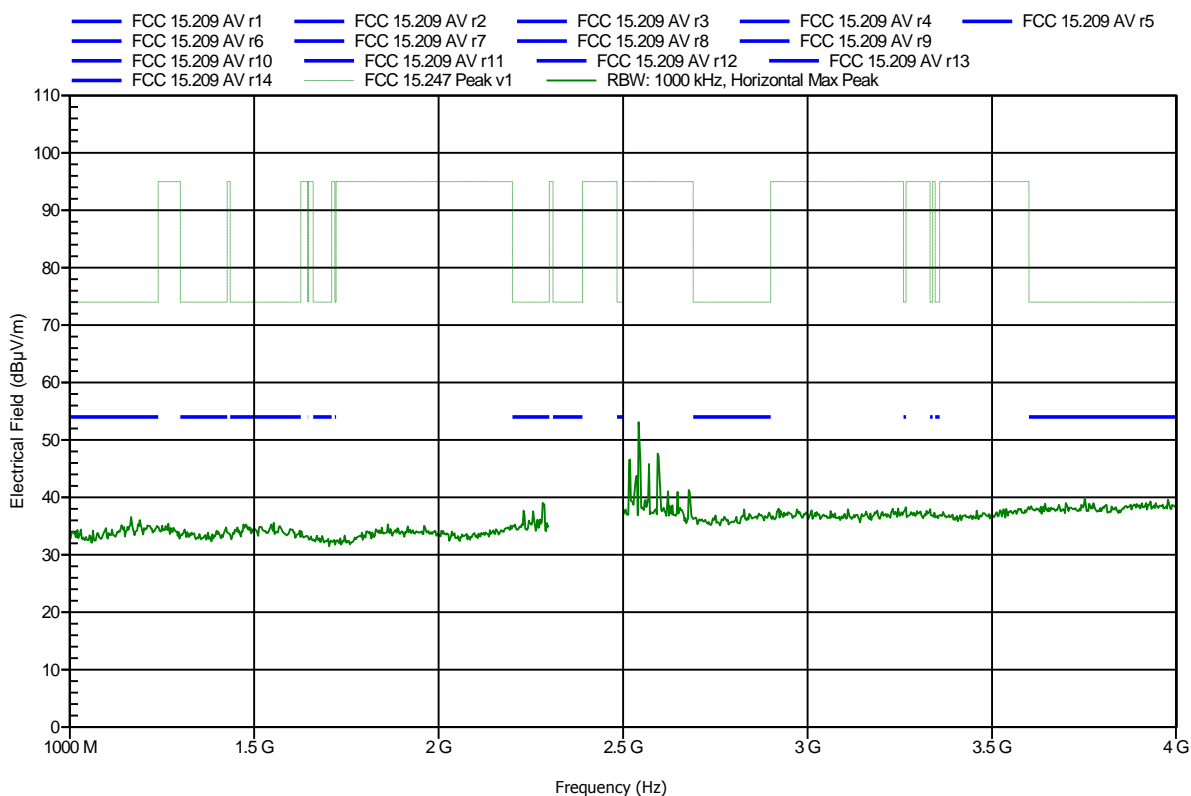


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.19, 2440 MHz
 Test Date: 2013-08-30
 Note:

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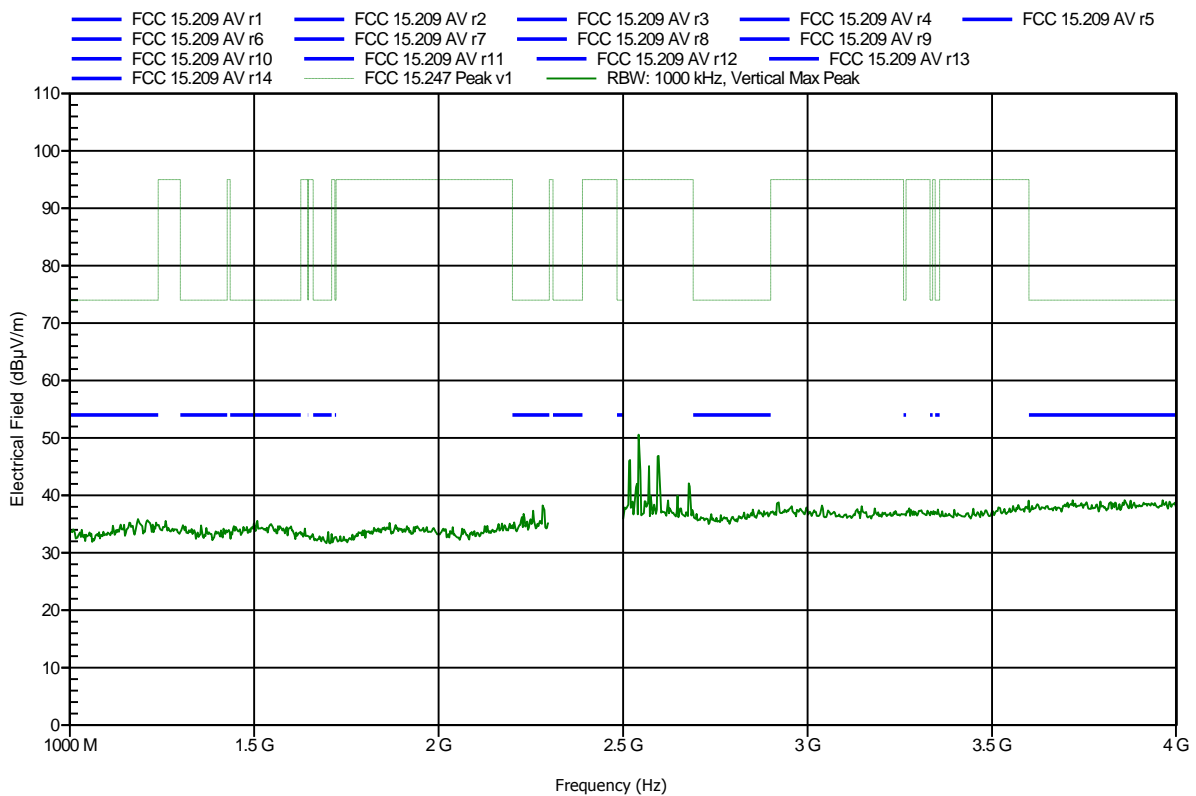


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.19, 2440 MHz
 Test Date: 2013-08-30
 Note:

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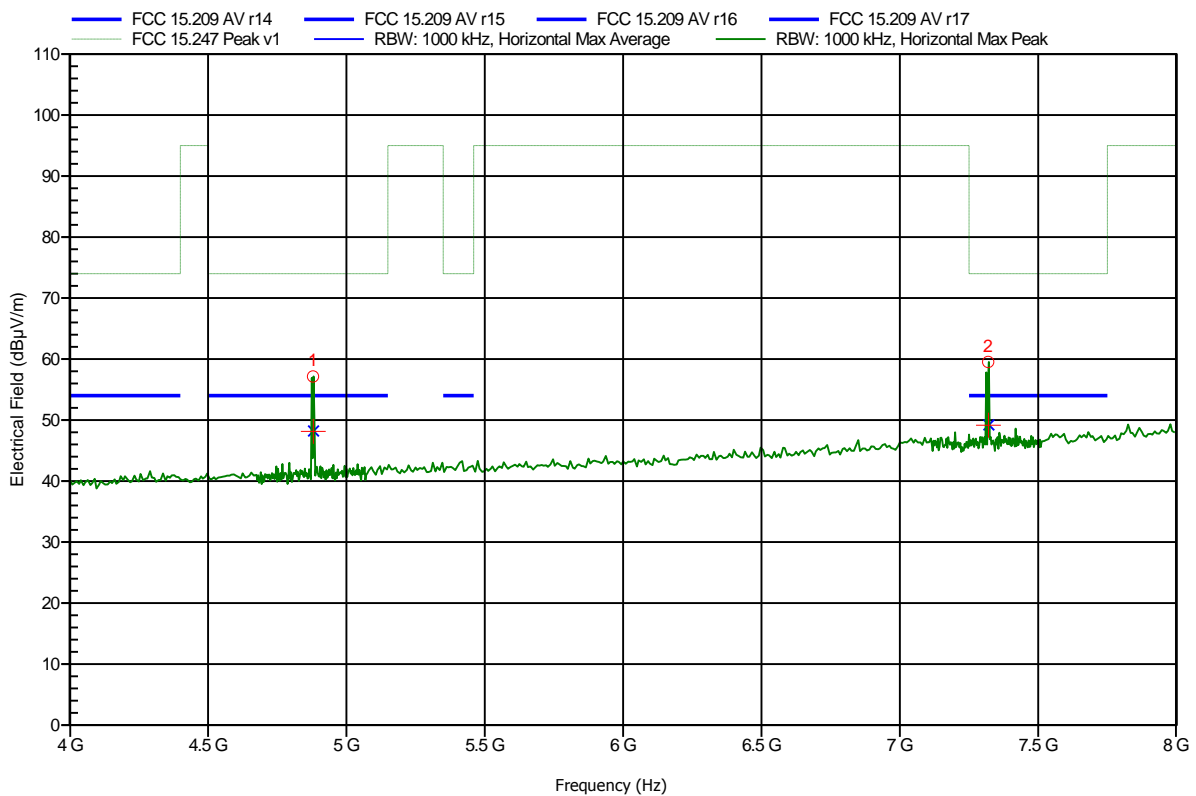


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.19, 2440 MHz
 Test Date: 2013-08-30
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.879 GHz	57.15 dBµV/m	74 dBµV/m	-16.85 dB	Pass
7.319 GHz	59.53 dBµV/m	74 dBµV/m	-14.47 dB	Pass

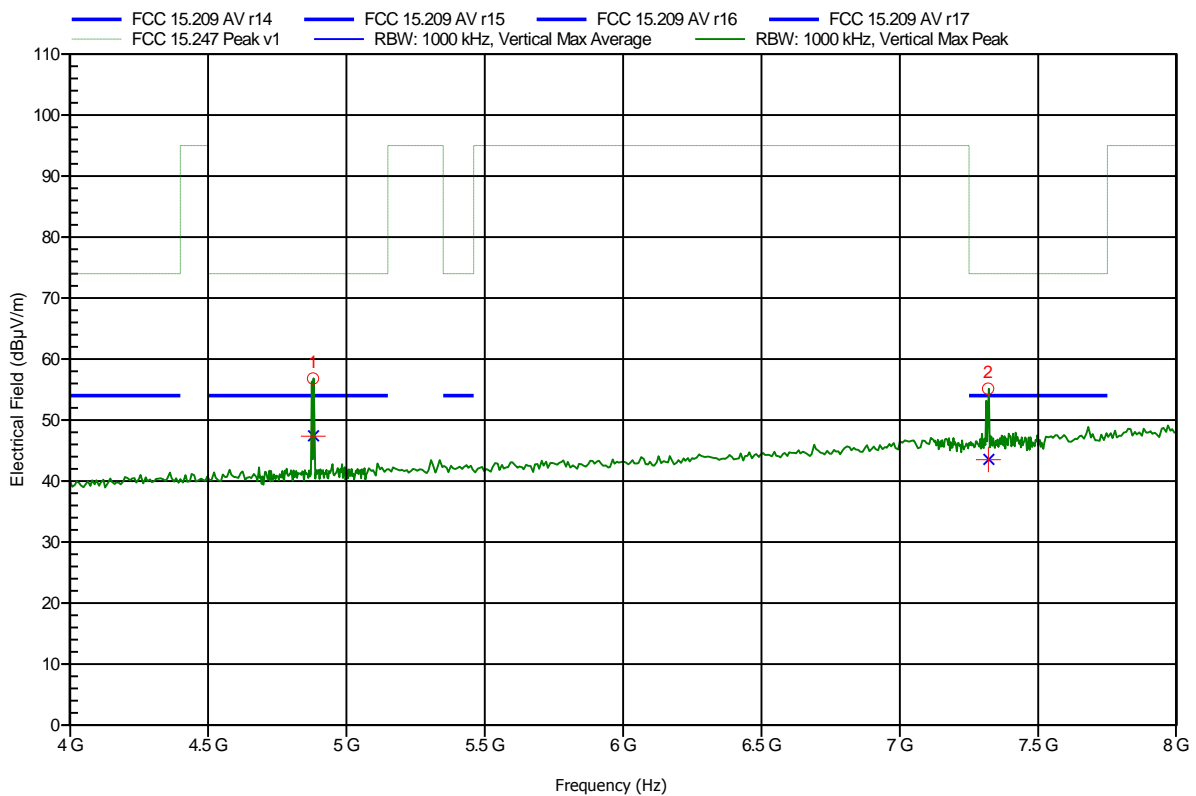
Frequency	Average	Average Limit	Average Difference	Average Status
4.879 GHz	48.2 dBµV/m	54 dBµV/m	-5.8 dB	Pass
7.319 GHz	49.21 dBµV/m	54 dBµV/m	-4.79 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.19, 2440 MHz
 Test Date: 2013-08-30
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.879 GHz	56.82 dBµV/m	74 dBµV/m	-17.18 dB	Pass
7.319 GHz	55.14 dBµV/m	74 dBµV/m	-18.86 dB	Pass

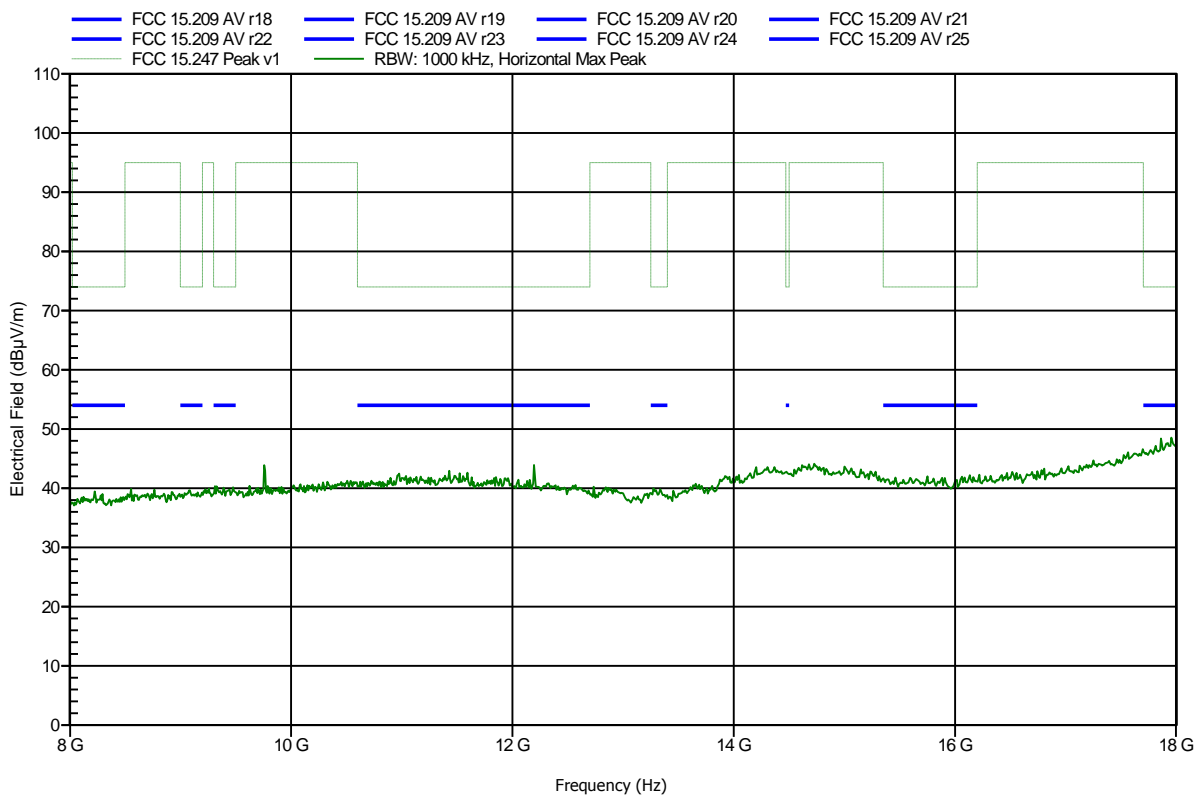
Frequency	Average	Average Limit	Average Difference	Average Status
4.879 GHz	47.41 dBµV/m	54 dBµV/m	-6.59 dB	Pass
7.319 GHz	43.56 dBµV/m	54 dBµV/m	-10.44 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 100 cm converted to 3m
 Mode: TX; BLE, Ch.19, 2440 MHz
 Test Date: 2013-08-30
 Note:

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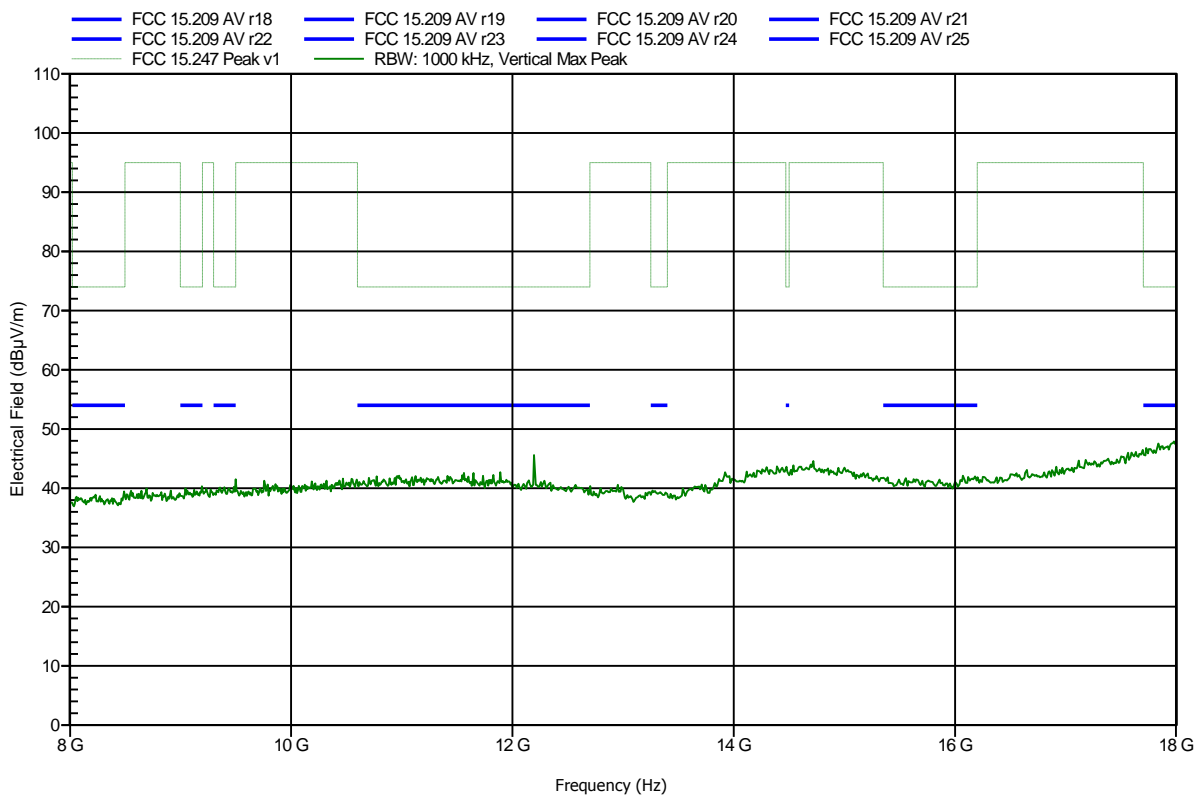


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 100 cm converted to 3m
 Mode: TX; BLE, Ch.19, 2440 MHz
 Test Date: 2013-08-30
 Note:

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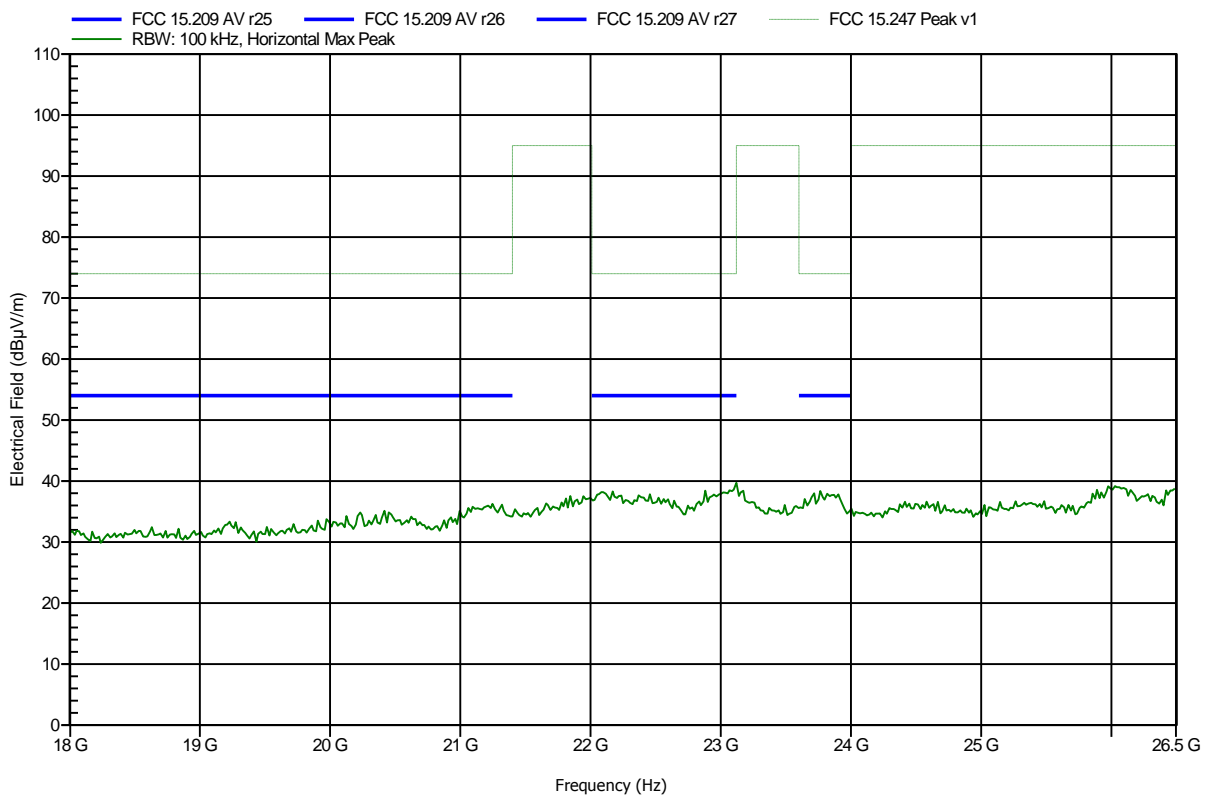


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	100 cm
Mode:	TX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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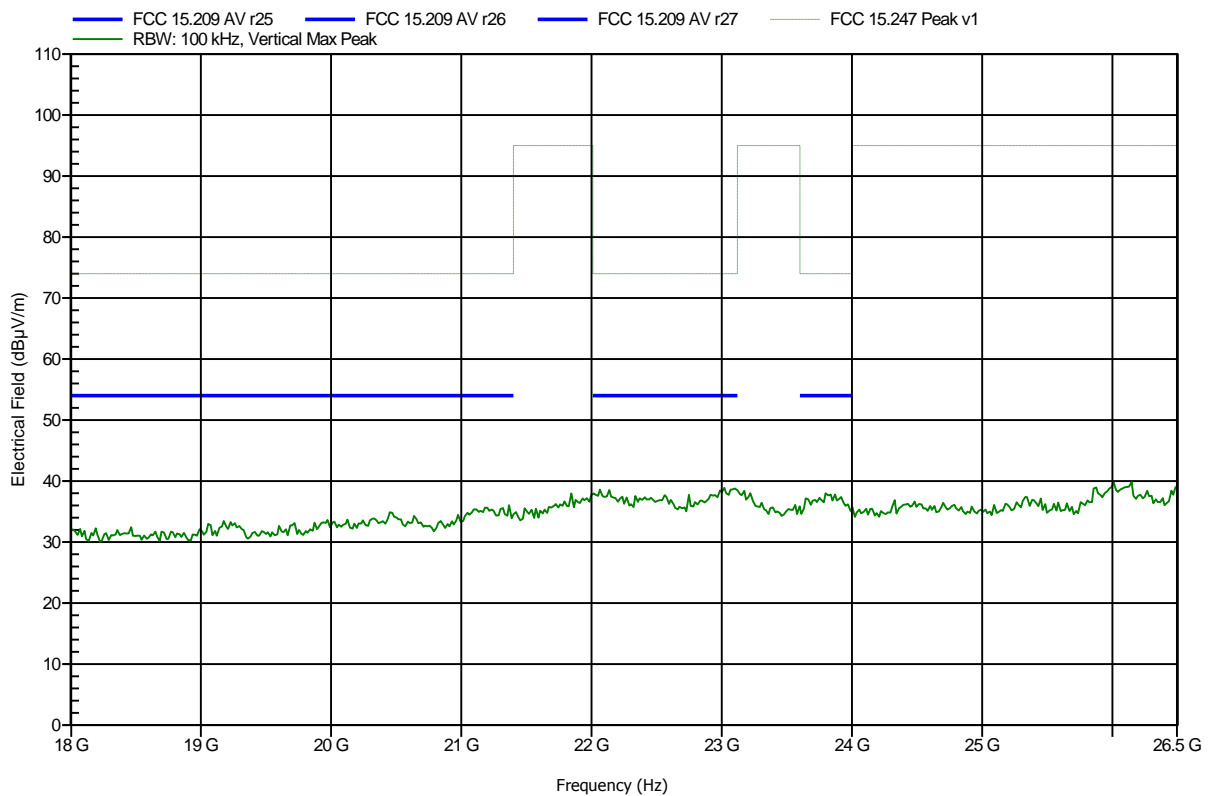


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	100 cm
Mode:	TX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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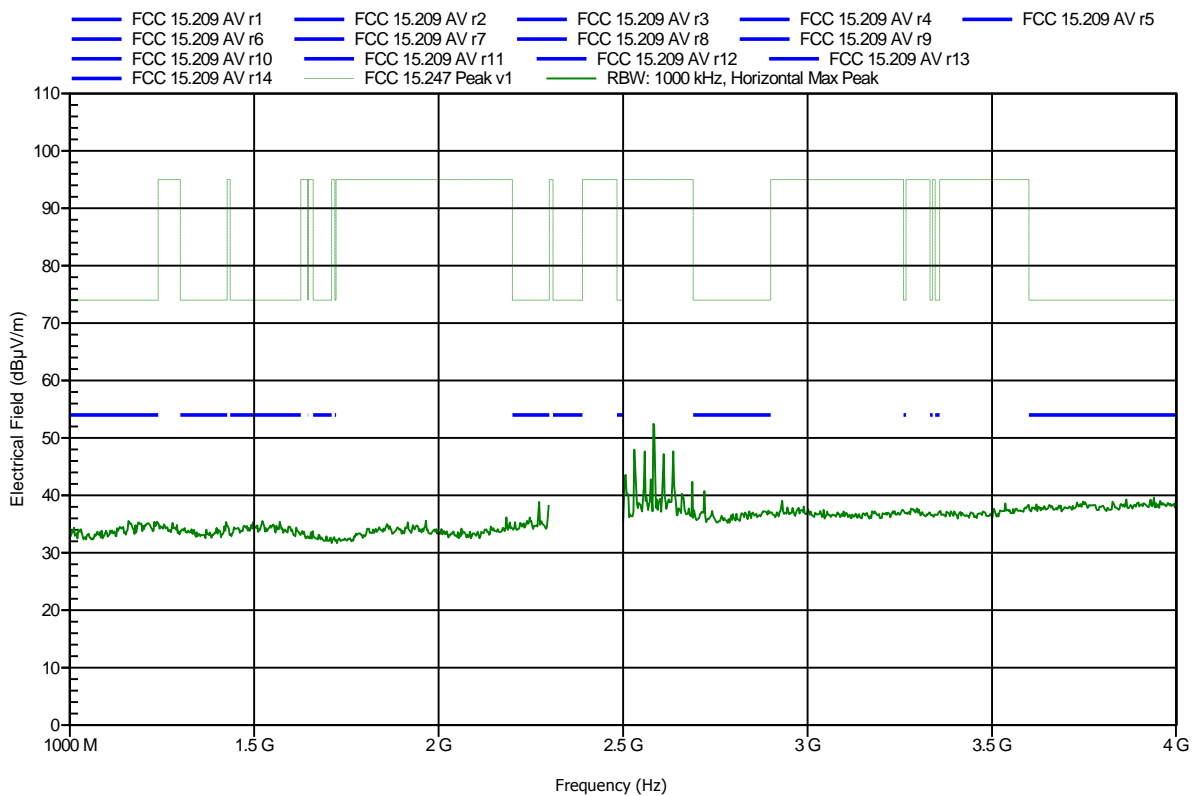


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.39, 2480 MHz
 Test Date: 2013-08-30
 Note:

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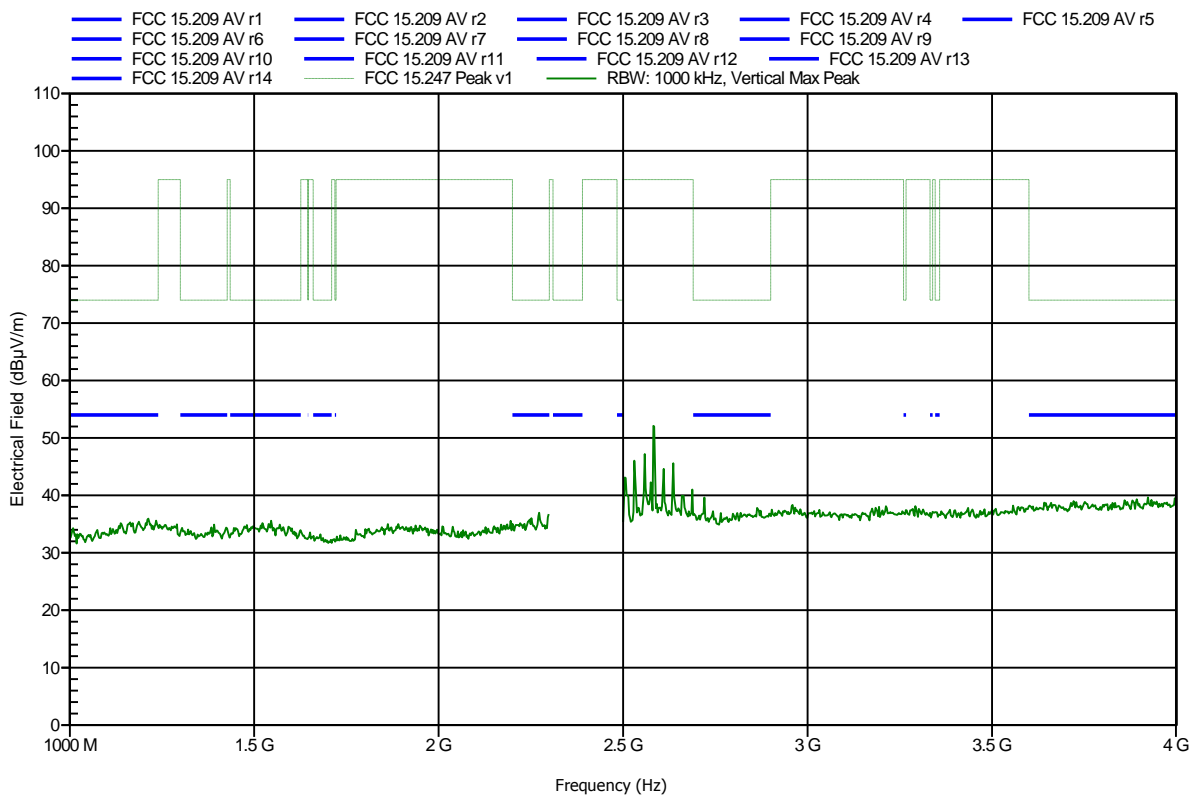


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.39, 2480 MHz
 Test Date: 2013-08-30
 Note:

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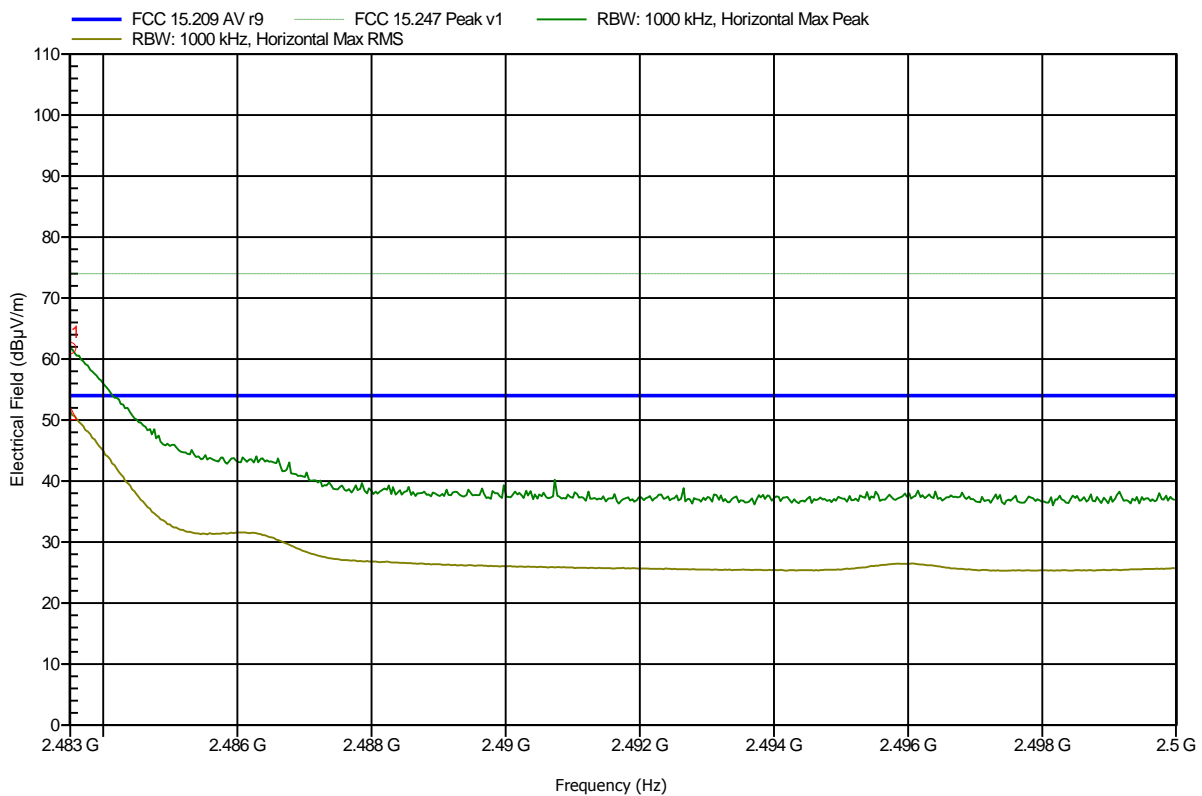


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.39, 2480 MHz
 Test Date: 2013-08-30
 Note: upper bandedge

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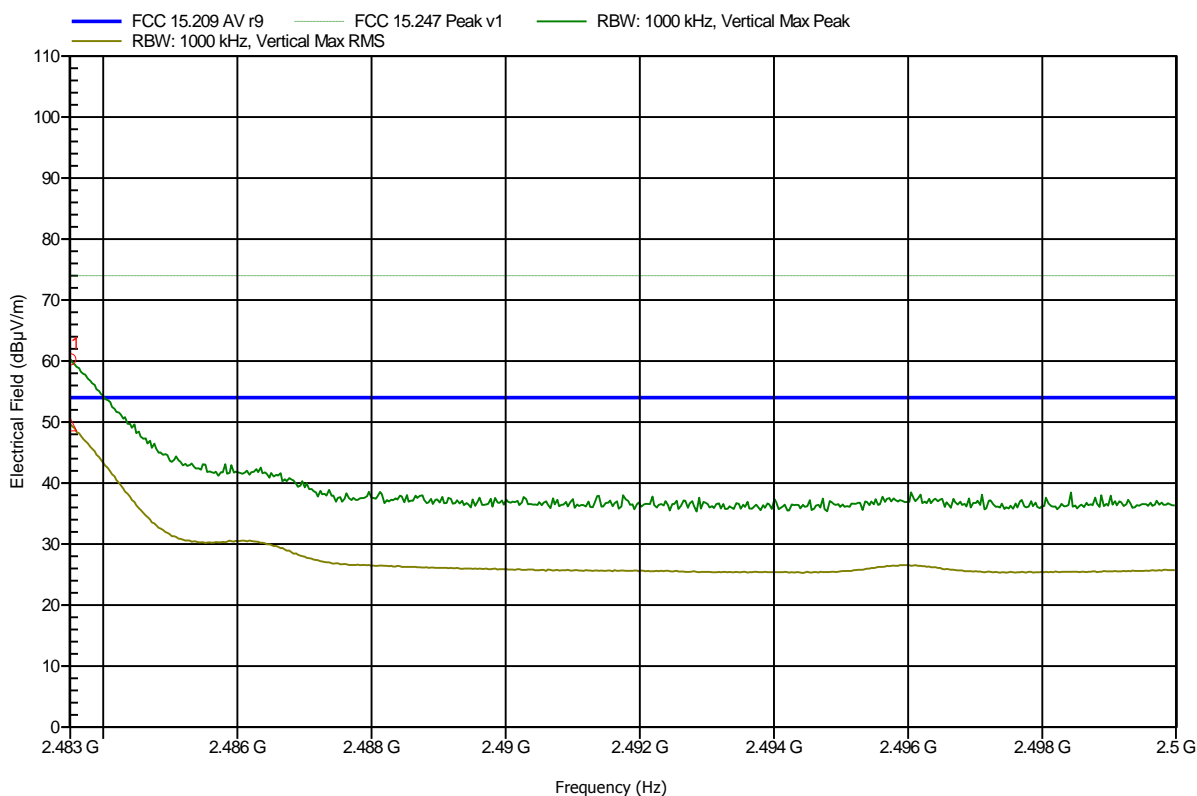
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	61.8 dBµV/m	74 dBµV/m	-12.2 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	51.1 dBµV/m	54 dBµV/m	-2.9 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.39, 2480 MHz
 Test Date: 2013-08-30
 Note: upper bandedge

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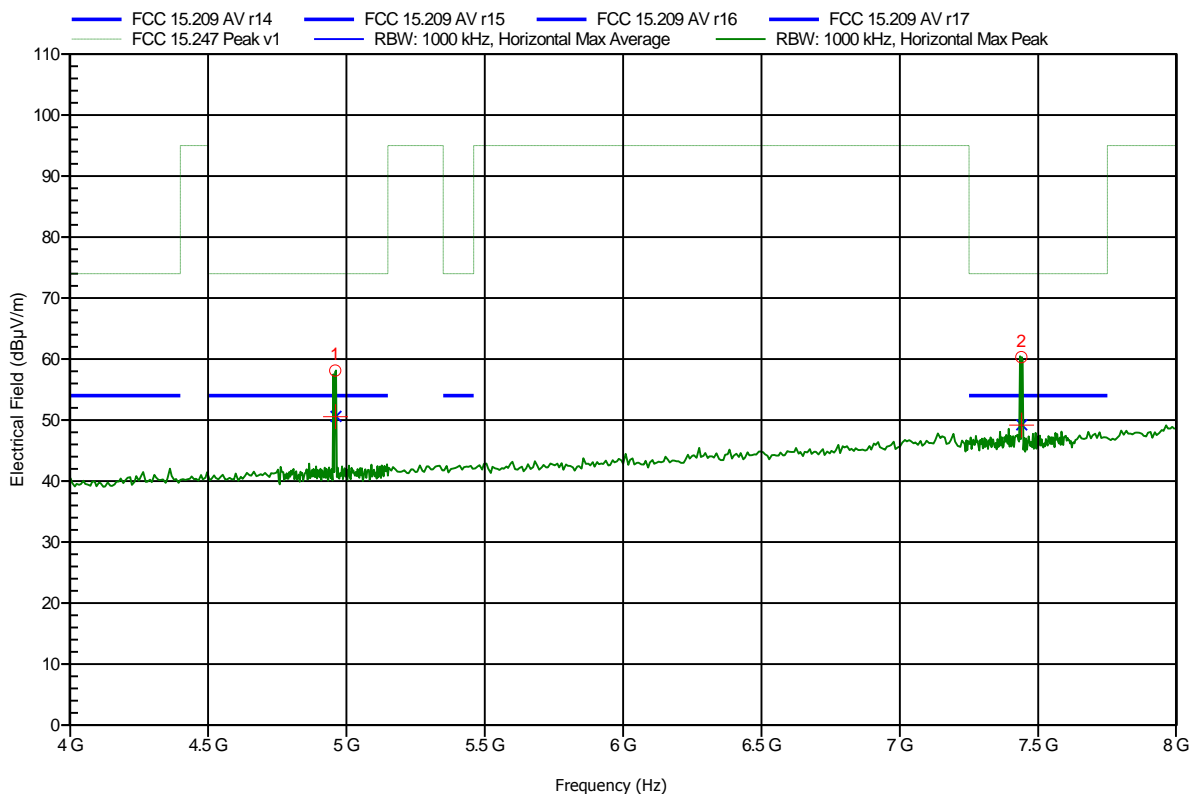
Frequency	Peak	Peak Limit	Peak Difference	Peak Status
2.4835 GHz	60.28 dBµV/m	74 dBµV/m	-13.72 dB	Pass
Frequency	RMS	RMS Limit	RMS Difference	RMS Status
2.4835 GHz	49.59 dBµV/m	54 dBµV/m	-4.41 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.39, 2480 MHz
 Test Date: 2013-08-30
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.96 GHz	58.12 dBµV/m	74 dBµV/m	-15.88 dB	Pass
7.439 GHz	60.31 dBµV/m	74 dBµV/m	-13.69 dB	Pass

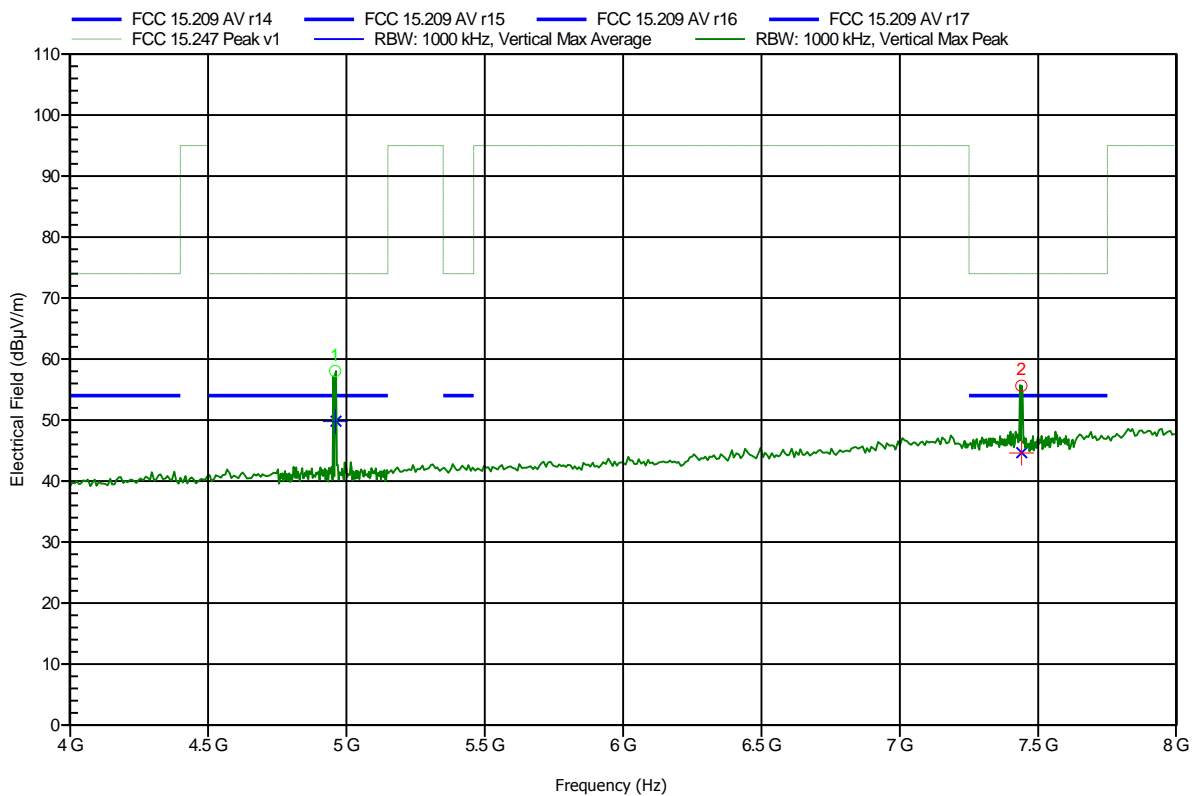
Frequency	Average	Average Limit	Average Difference	Average Status
4.96 GHz	50.6 dBµV/m	54 dBµV/m	-3.4 dB	Pass
7.439 GHz	49.22 dBµV/m	54 dBµV/m	-4.78 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 3 m
 Mode: TX; BLE, Ch.39, 2480 MHz
 Test Date: 2013-08-30
 Note:

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Frequency	Peak	Peak Limit	Peak Difference	Peak Status
4.959 GHz	58.04 dBµV/m	74 dBµV/m	-15.96 dB	Pass
7.439 GHz	55.61 dBµV/m	74 dBµV/m	-18.39 dB	Pass

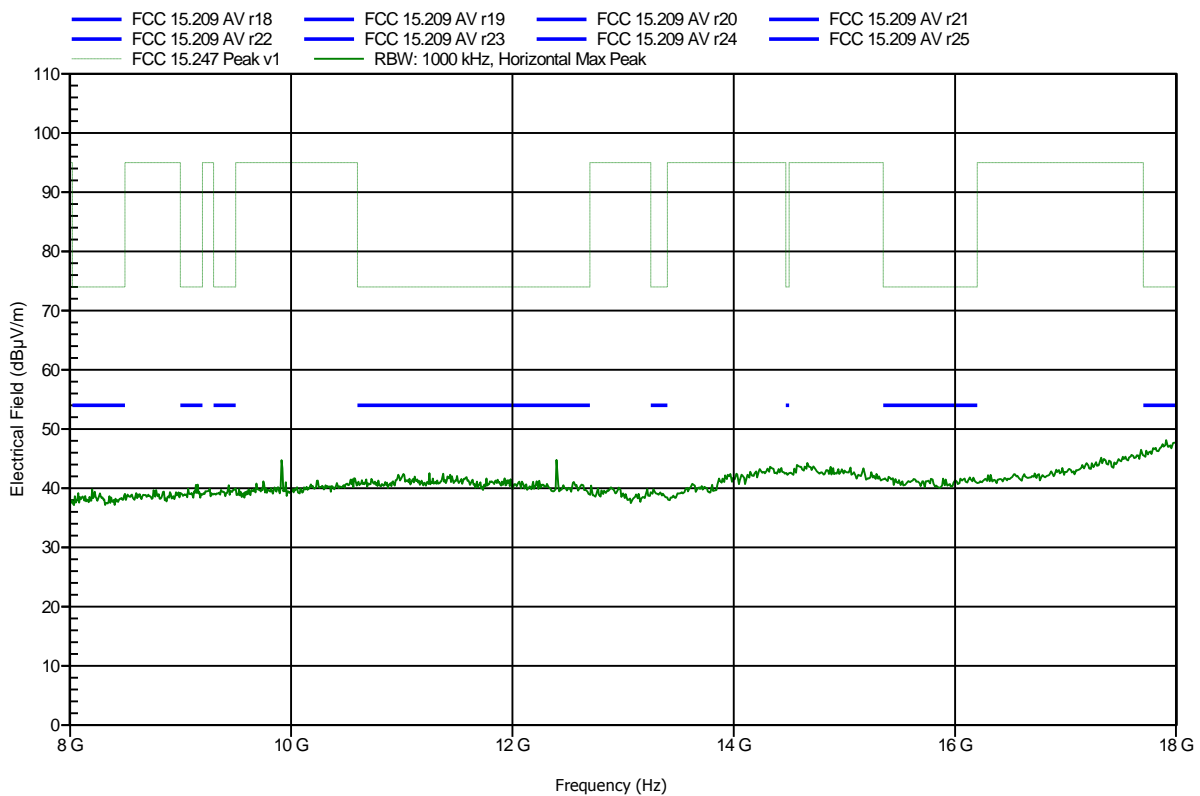
Frequency	Average	Average Limit	Average Difference	Average Status
4.959 GHz	49.8 dBµV/m	54 dBµV/m	-4.2 dB	Pass
7.439 GHz	44.65 dBµV/m	54 dBµV/m	-9.35 dB	Pass

Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Horizontal
 Measurement distance: 100 cm converted to 3m
 Mode: TX; BLE, Ch.39, 2480 MHz
 Test Date: 2013-08-30
 Note:

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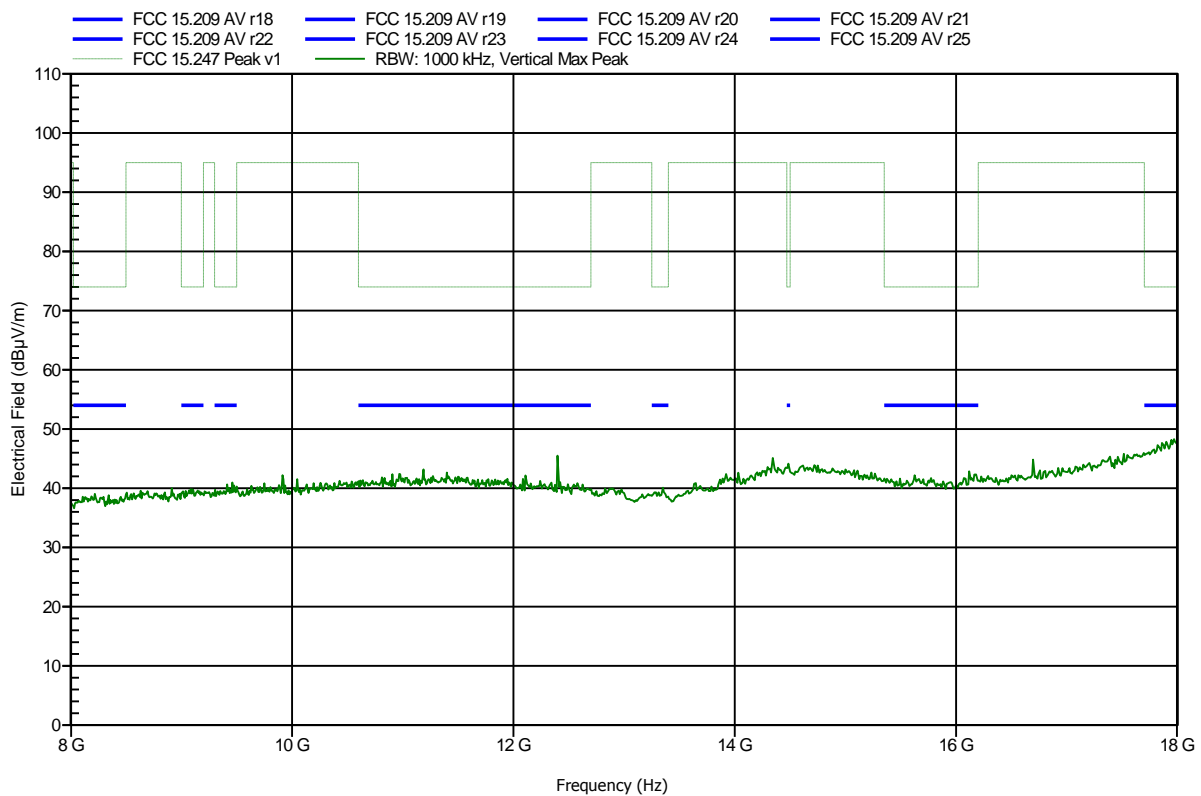


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer: GN Netcom A/S
 EUT Name: Bluetooth Headset
 Model: OTE16
 Test Site: Eurofins Product Service GmbH
 Operator: Mr. Treffke
 Test Conditions: Tnom: 25°C, Vnom: 3,7 V DC (battery)
 Antenna: Schwarzbeck BBHA 9120D, Vertical
 Measurement distance: 100 cm converted to 3m
 Mode: TX; BLE, Ch.39, 2480 MHz
 Test Date: 2013-08-30
 Note:

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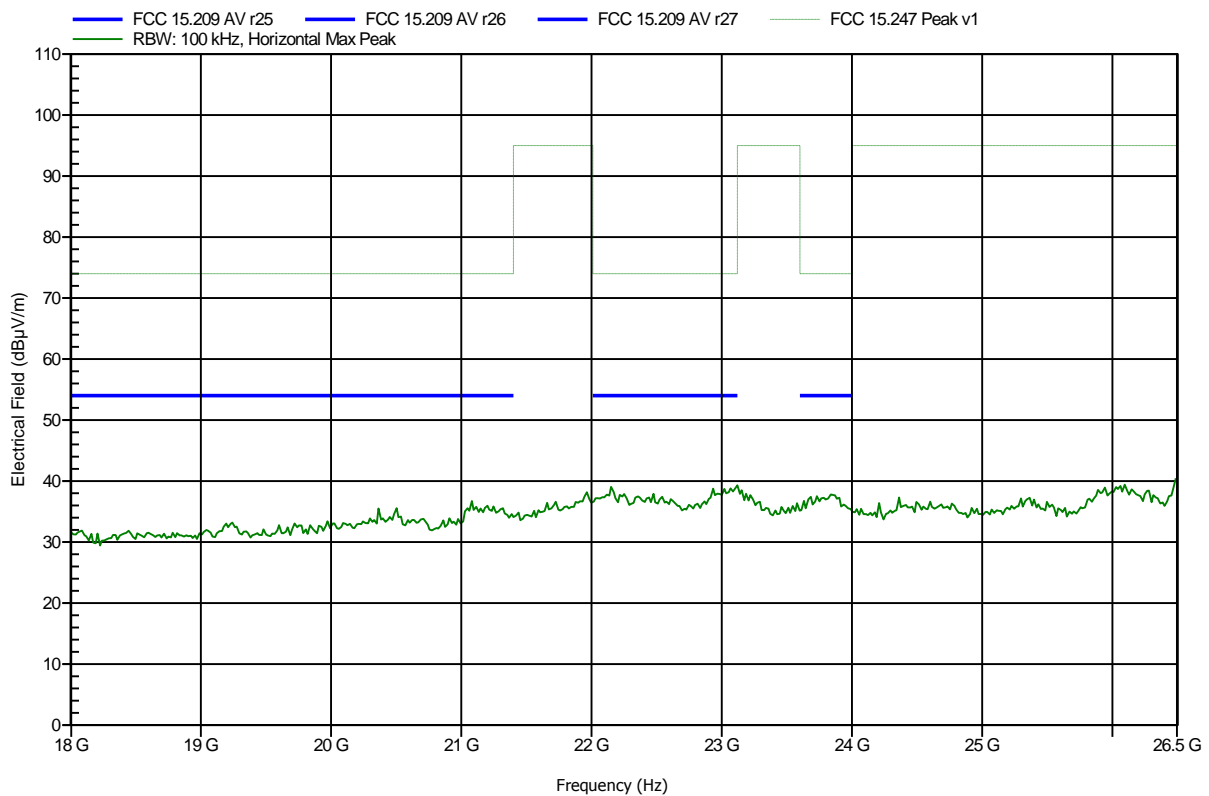


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 025, Horizontal
Measurement distance:	100 cm
Mode:	TX; BLE, Ch.39, 2480 MHz
Test Date:	2013-08-30
Note:	

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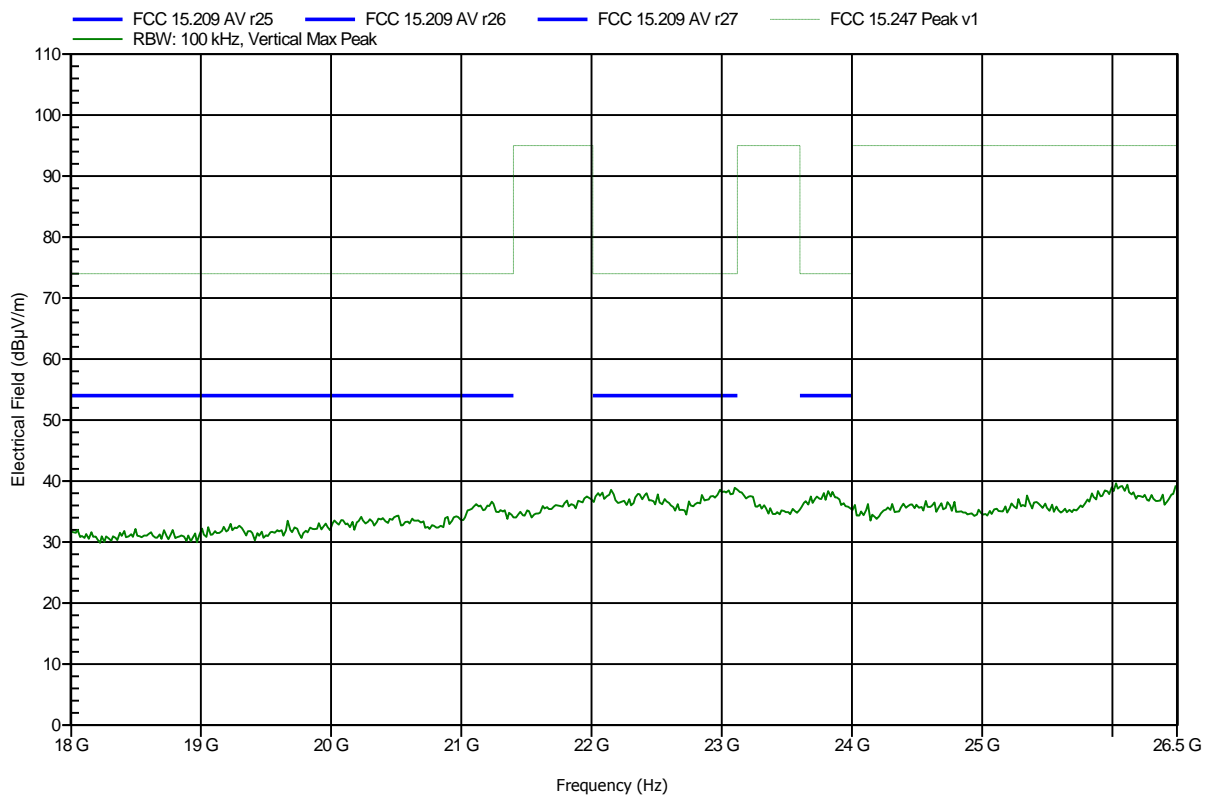


Spurious emissions according to FCC 15.247

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 025, Vertical
Measurement distance:	100 cm
Mode:	TX; BLE, Ch.39, 2480 MHz
Test Date:	2013-08-30
Note:	

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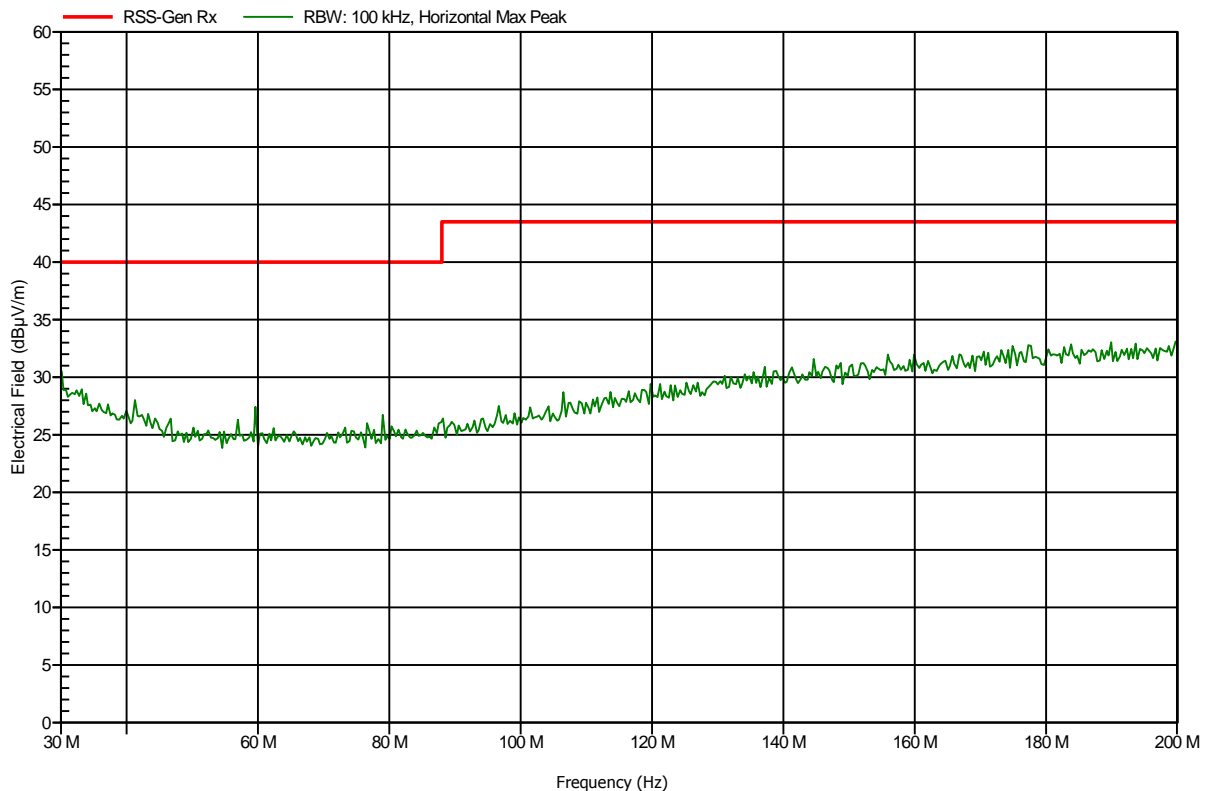
ANNEX B Receiver radiated spurious emissions

Spurious emissions according to RSS-GEN

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3 m
Mode:	RX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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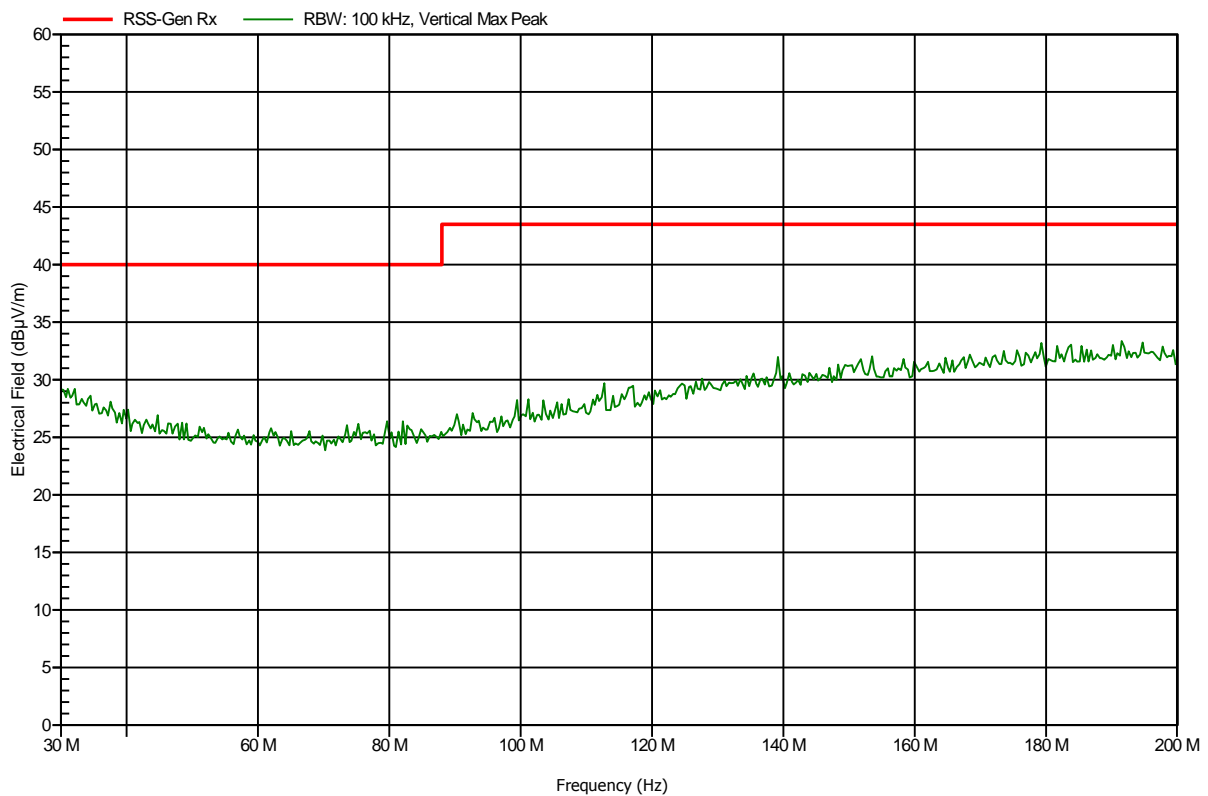


Spurious emissions according to RSS-GEN

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3 m
Mode:	RX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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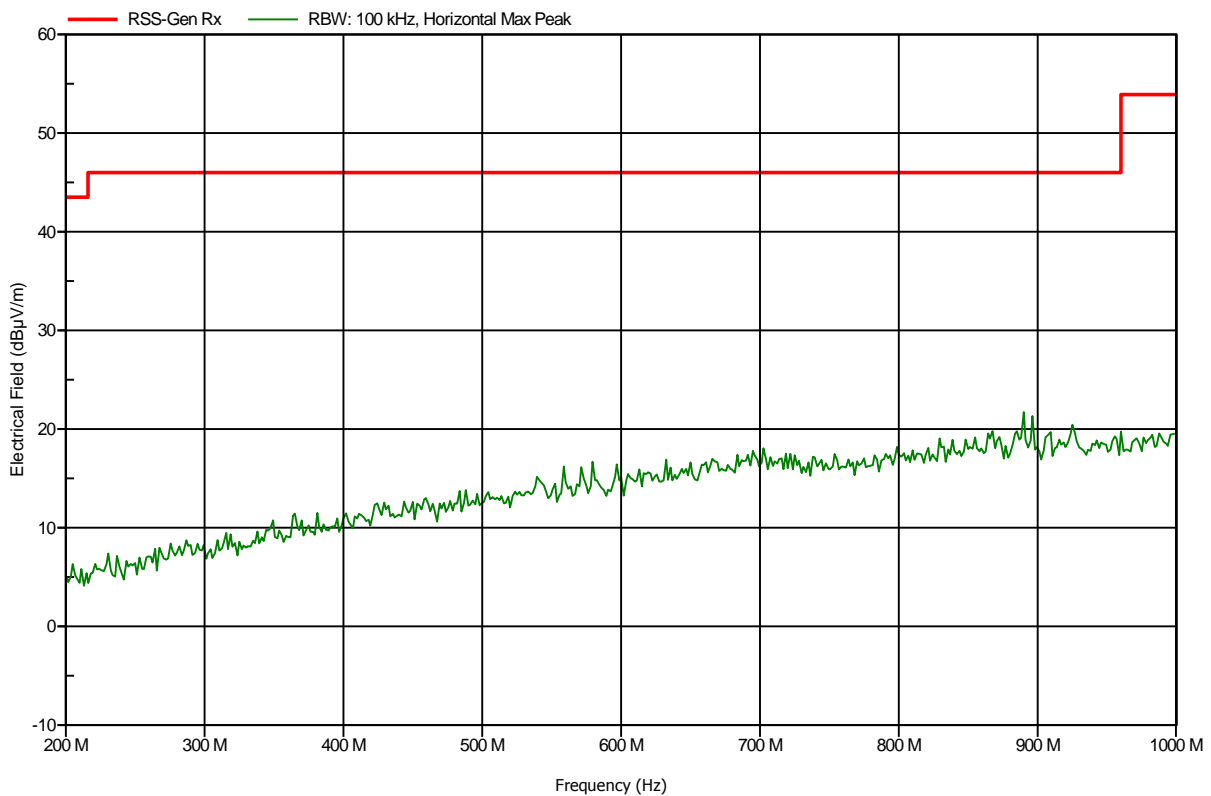


Spurious emissions according to RSS-GEN

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3 m
Mode:	RX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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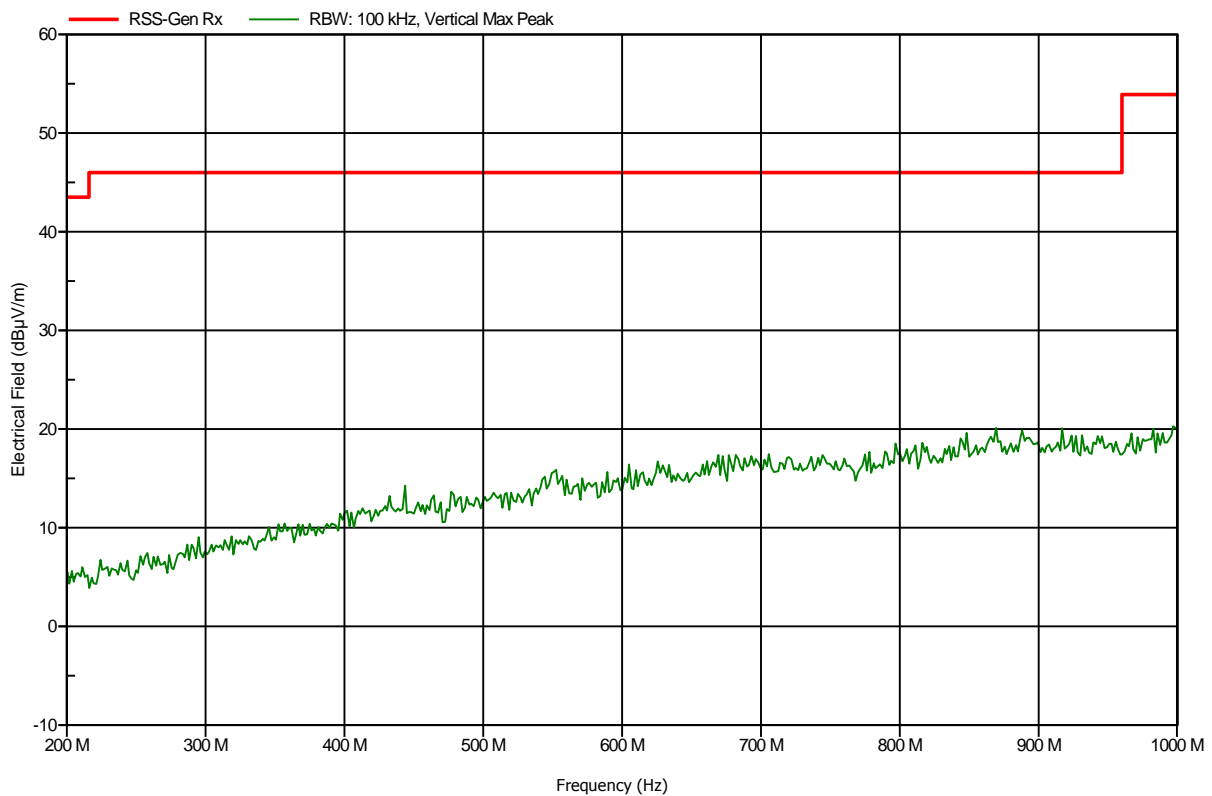


Spurious emissions according to RSS-GEN

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3 m
Mode:	RX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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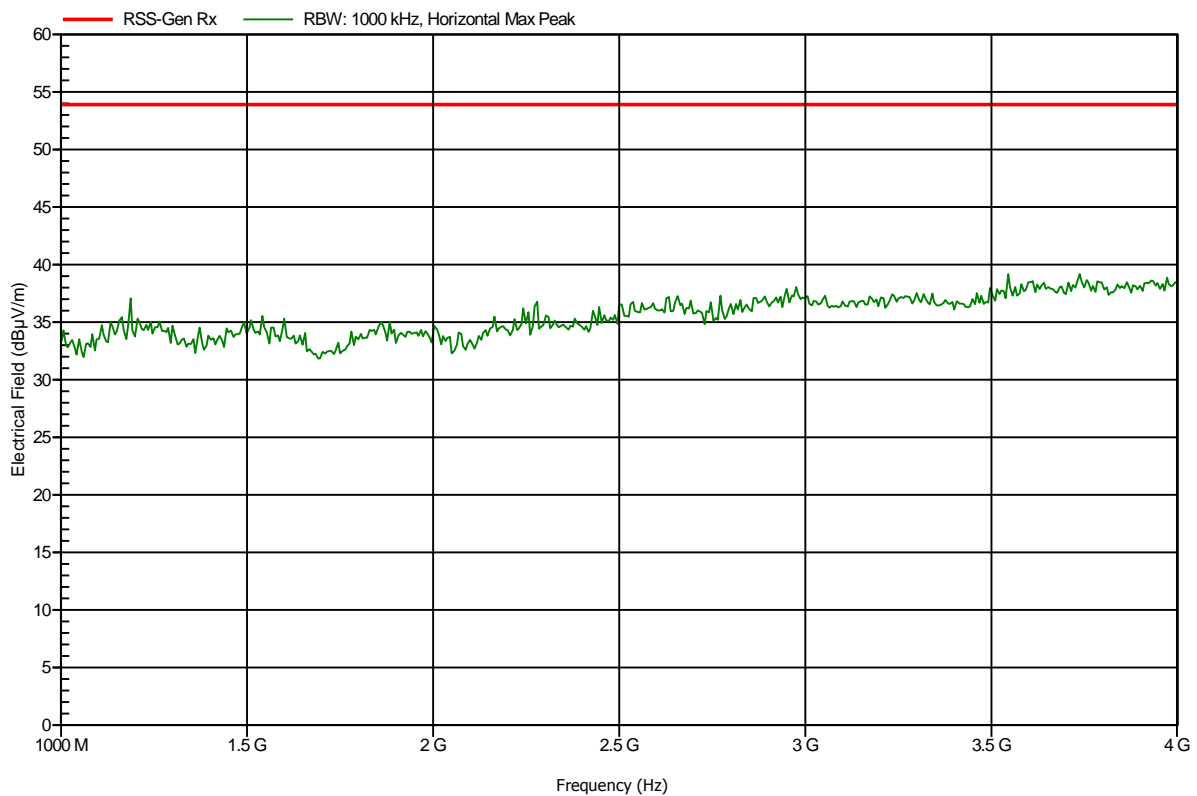


Spurious emissions according to RSS-GEN

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	RX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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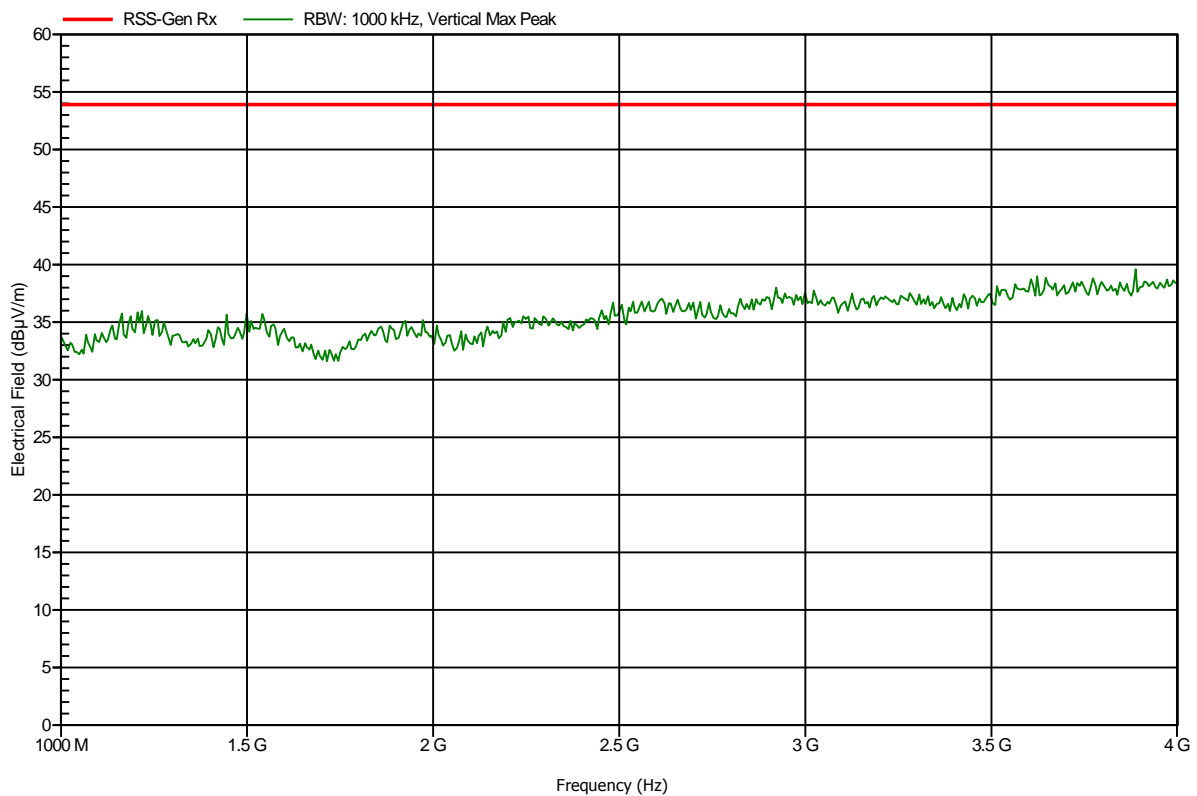


Spurious emissions according to RSS-GEN

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	RX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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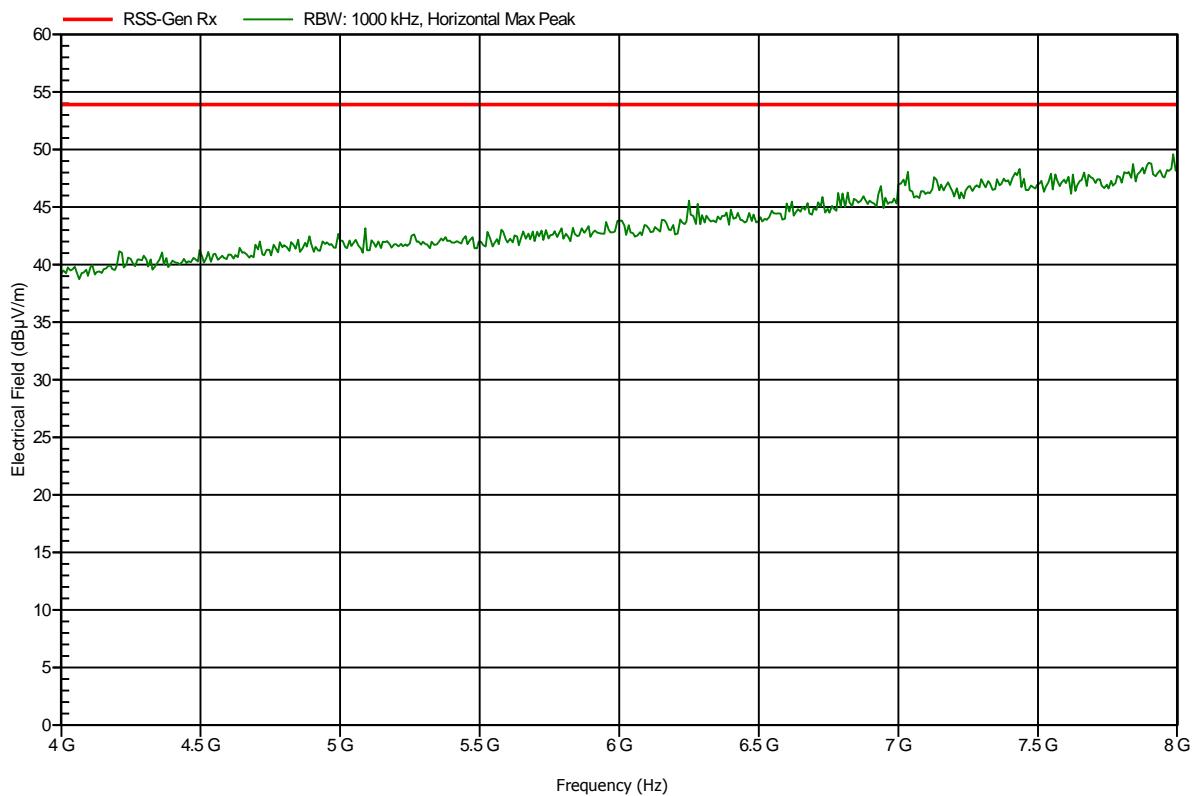


Spurious emissions according to RSS-GEN

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Horizontal
Measurement distance:	3 m
Mode:	RX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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Spurious emissions according to RSS-GEN

Project number: G0M-1308-3117

Manufacturer:	GN Netcom A/S
EUT Name:	Bluetooth Headset
Model:	OTE16
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Treffke
Test Conditions:	Tnom: 25°C, Vnom: 3,7 V DC (battery)
Antenna:	Schwarzbeck BBHA 9120D, Vertical
Measurement distance:	3 m
Mode:	RX; BLE, Ch.19, 2440 MHz
Test Date:	2013-08-30
Note:	

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