



EMC TEST REPORT FCC 47 CFR Part 15B Industry Canada RSS-Gen Electromagnetic compatibility - Unintentional radiators	
Report Reference No.	G0M-1201-1698-EF01-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 15 Subpart B RSS-Gen, Issue 3, 2010-12 ANSI C63.4:2009
Equipment under test (EUT):	
Product description	USB Bluetooth dongle
Model No.	LINK360
Hardware version	Alpha
Firmware / Software version	0.0.9
	FCC-ID: BCE-END003W IC: 2386C-END003W
Test result	Passed

Possible test case verdicts:


- not applicable to test object : N/A
- test object does meet the requirement..... : P (Pass)
- test object does not meet the requirement..... : F (Fail)

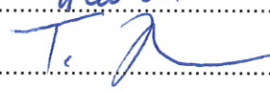
Testing:

Date of receipt of test item : 2012-01-27

Date (s) of performance of tests : 2012-02-03 - 2012-02-06

Compiled by : Antje Bartusch

Tested by (+ signature)..... : Matthias Handrik 

Approved by (+ signature) : Toralf Jahn 

Date of issue : 2012-02-09

Total number of pages..... : 19

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:

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1 Equipment (Test item) Description

Description	USB Bluetooth dongle
Model	LINK360
Serial number	None
Hardware version	Alpha
Software / Firmware version	0.0.9
FCC-ID	BCE-END003W
IC	2386C-END003W
Power supply	5VVDC (USB) 120VAC/DC Adapter via Laptop
AC/DC-Adaptor	None
Manufacturer	GN Netcom A/S Lautrupbjerg 7 2750 Ballerup DENMARK
Highest emission frequency	1.705MHz - 108MHz (up to 1GHz)
Device classification	Class B
Equipment type	Tabletop
Number of tested samples	1

1.4 Supporting Equipment Used During Testing

Product Type*	Device	Manufacturer	Model No.	Comments
AE	Laptop	DELL	Latitude 430	
AE	AC/DC adapter	DELL	DA90PS1-00	

***Note:** Use the following abbreviations:

AE : Auxiliary/Associated Equipment, or

SIM : Simulator (Not Subjected to Test)

CABL : Connecting cables

1.5 Operating Modes

Mode #	Description
1	Bluetooth link

1.6 Test Equipment Used During Testing

Radiated emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Biconical Antenna	R&S	HK 116	Inv. No. 0012	Jan 10	Jan 13
LPD-Antenne	R&S	HL 223	Inv. No. 0295	Feb 11	Feb 13
LPD-Antenna	R&S	HL 025	Inv. No. 0512	Feb 10	Feb 13
EMI Test Receiver	R&S	ESU8	Inv. No. 0567	Dec 11	Dec 12
EMI Test Receiver	R&S	ESCS30	Inv. No. 0474	Jun 11	Jun 12

Conducted emissions					
Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
AMN	R&S	ESH2-Z5	Inv. No. 0288	Sep 10	Sep 12
AMN	R&S	ESH3-Z5	Inv. No. 0040	Nov 10	Nov 12
EMI Test Receiver	R&S	ESCS 30	Inv. No. 0474	Jun 11	Jun 12

2 Result Summary

FCC 47 CFR Part 15B, Industry Canada RSS-Gen				
Product Specific Standard	Requirement – Test	Reference Method	Result	Remarks
47 CFR 15.109 RSS-Gen 4.9 & 4.10	Radiated emissions	ANSI C 63.4	PASS	
47 CFR 15.107 RSS-Gen 7.2.4	AC power line conducted emissions	ANSI C63.4	PASS	
Remarks:				

3 Test Conditions and Results

3.1 Test Conditions and Results – Radiated emissions

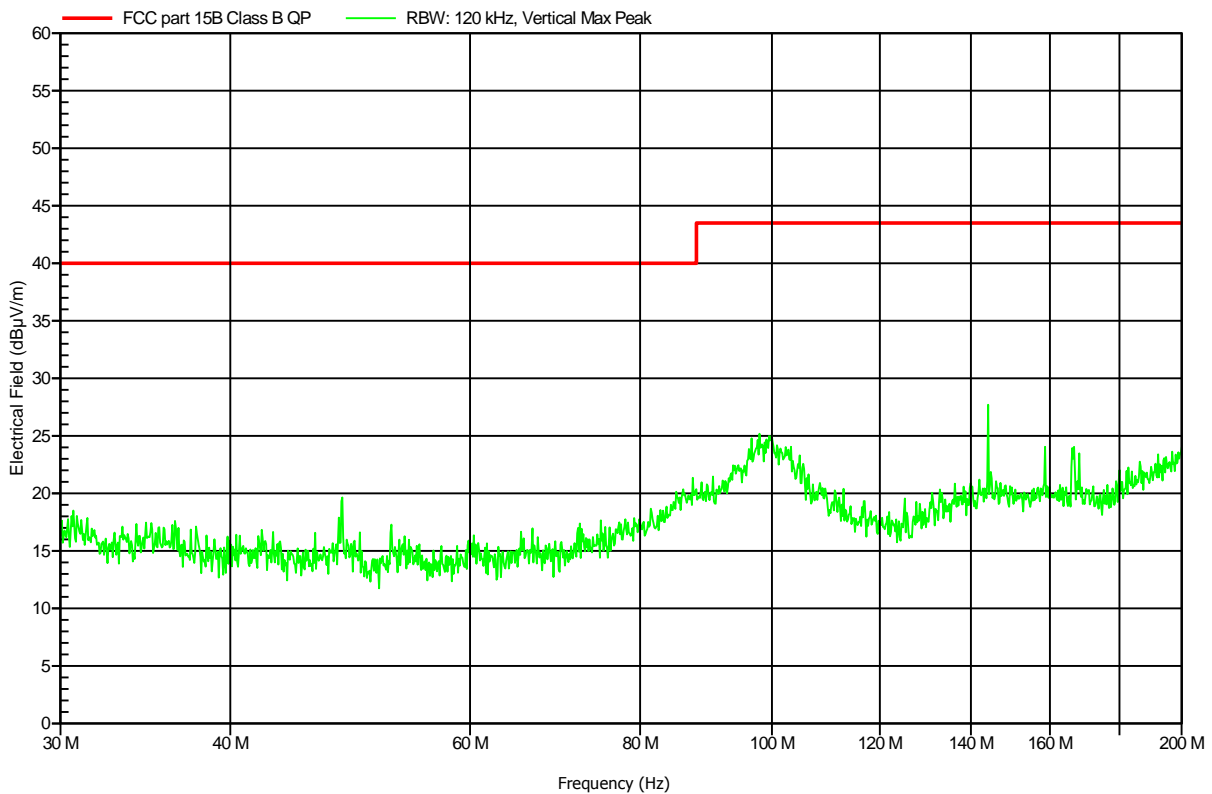
Radiated emissions acc. FCC 47 CFR 15.109 / IC RSS-Gen				Verdict: PASS		
Laboratory Parameters:		Required prior to the test		During the test		
Ambient Temperature		15 to 35°C		22°C		
Relative Humidity		30 to 60%		35%		
Test according referenced standards		Reference Method				
		ANSI C63.4				
Sample is tested with respect to the requirements of the equipment class		Equipment class				
		Class B				
Test frequency range determined from highest emission frequency		Highest emission frequency				
		1.705MHz - 108MHz (up to 1GHz)				
Fully configured sample scanned over the following frequency range		Frequency range				
		30MHz to 1GHz				
Operating mode		1				
Limits and results Class B						
Frequency [MHz]	Quasi-Peak [dBµV/m]	Result	Average [dBµV/m]	Result	Peak [dBµV/m]	Result
30 – 88	40	PASS	-		-	-
88 – 216	43.5	PASS	-		-	-
216 – 960	46	PASS	-		-	-
960 – 1000	54	PASS	-		-	-
Comments:						

Spurious emissions under normal conditions according to FCC part 15B

Project number: G0M-1201-1698

Manufacturer:	GN Netcom A/S
EUT Name:	USB Bluetooth dongle
Model:	LINK360
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Unom: USB
Antenna:	Rohde & Schwarz HK 116, Vertical
Measurement distance:	3m
Mode:	Bluetooth link
Test Date:	06.02.2012
Note:	

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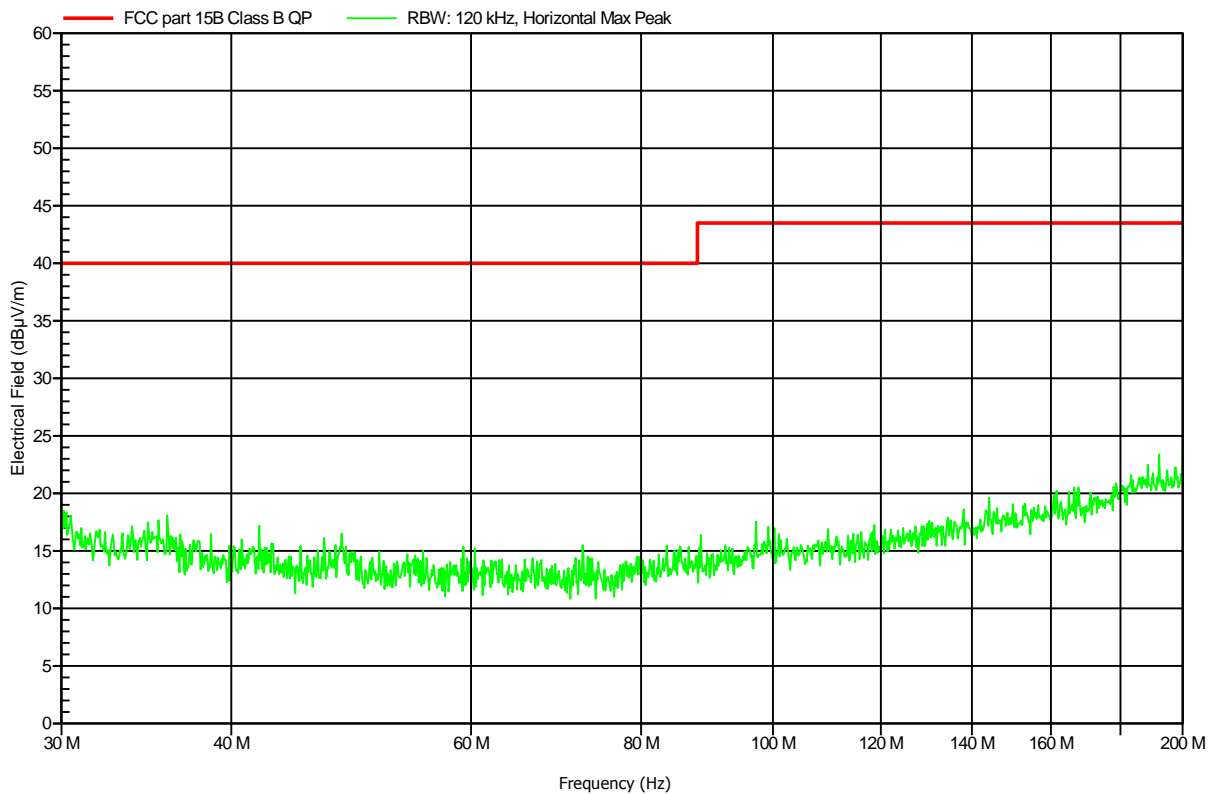


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Model:	LINK360
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Unom: USB
Antenna:	Rohde & Schwarz HK 116, Horizontal
Measurement distance:	3m
Mode:	Bluetooth link
Test Date:	06.02.2012
Note:	

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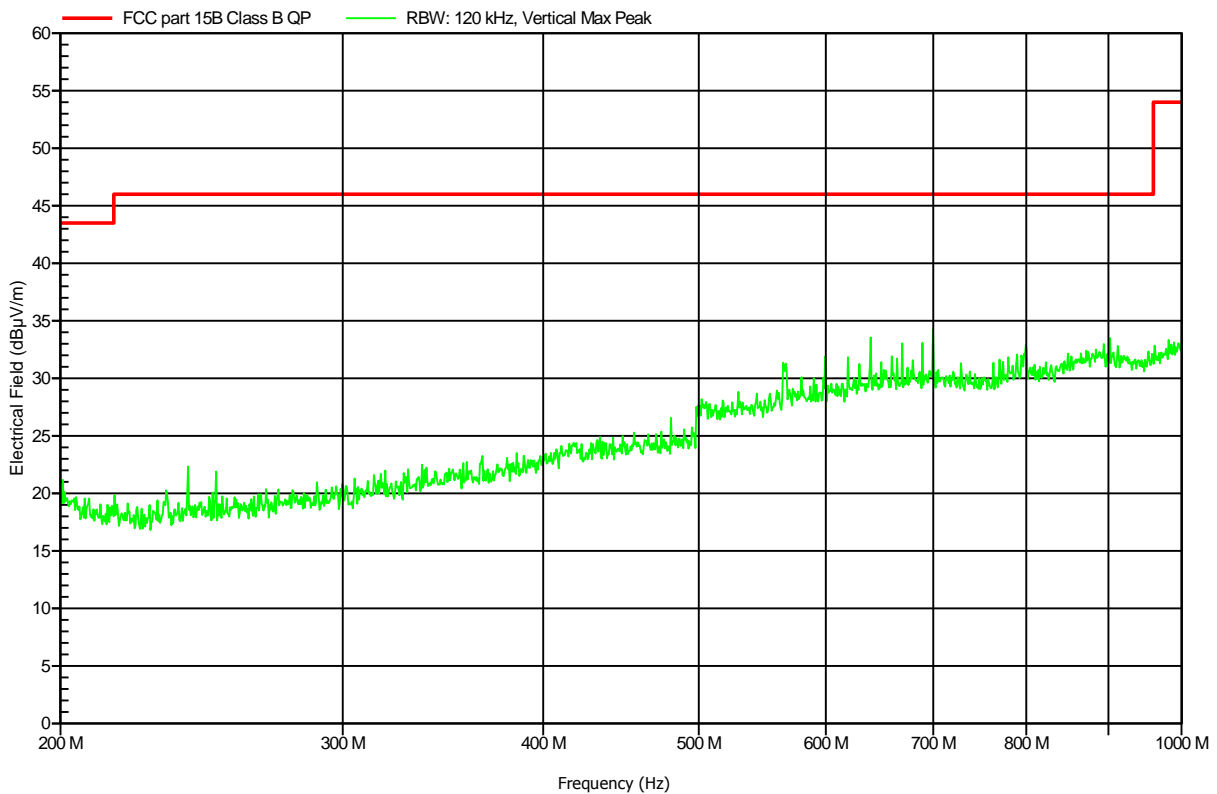


Spurious emissions under normal conditions according to FCC part 15B

Project number: G0M-1201-1698

Manufacturer:	GN Netcom A/S
EUT Name:	USB Bluetooth dongle
Model:	LINK360
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Unom: USB
Antenna:	Rohde & Schwarz HL 223, Vertical
Measurement distance:	3m
Mode:	Bluetooth link
Test Date:	06.02.2012
Note:	

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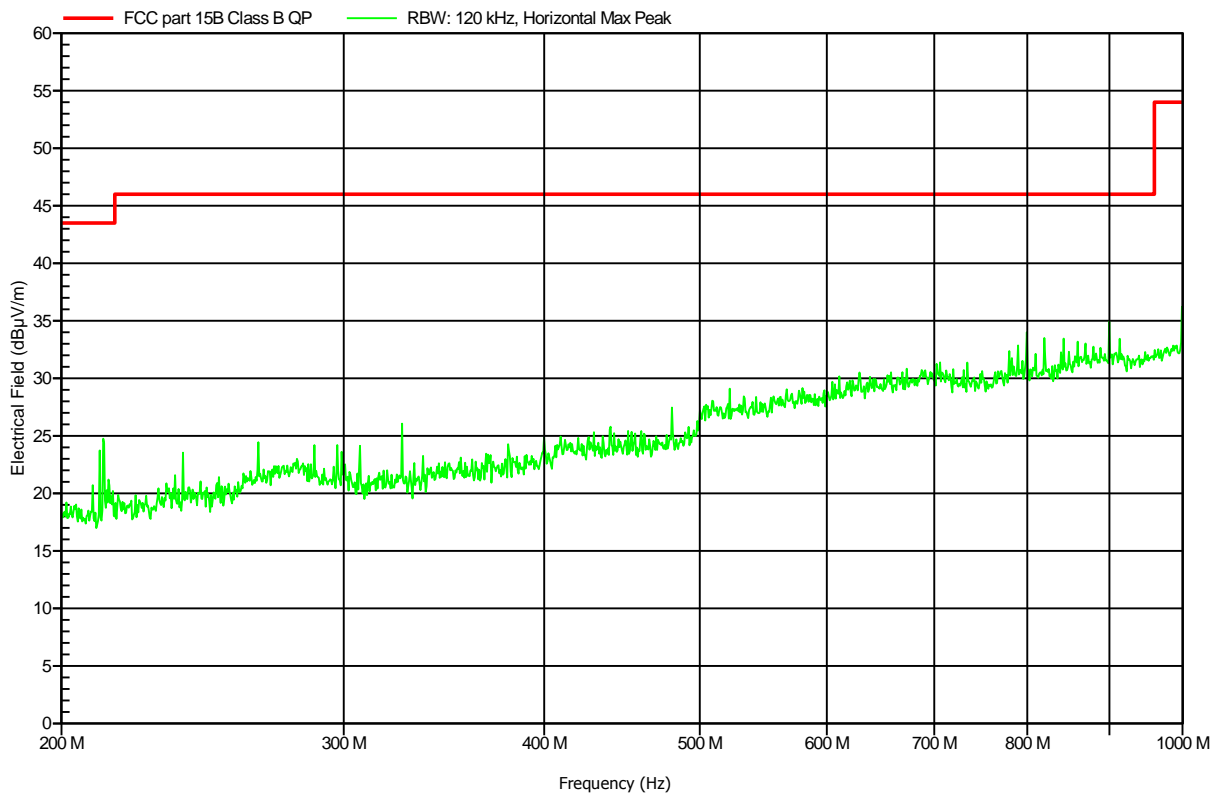


Spurious emissions under normal conditions according to FCC part 15B

Project number: G0M-1201-1698

Manufacturer:	GN Netcom A/S
EUT Name:	USB Bluetooth dongle
Model:	LINK360
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Unom: USB
Antenna:	Rohde & Schwarz HL 223, Horizontal
Measurement distance:	3m
Mode:	Bluetooth link
Test Date:	06.02.2012
Note:	

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3.2 Test Conditions and Results – AC power line conducted emissions

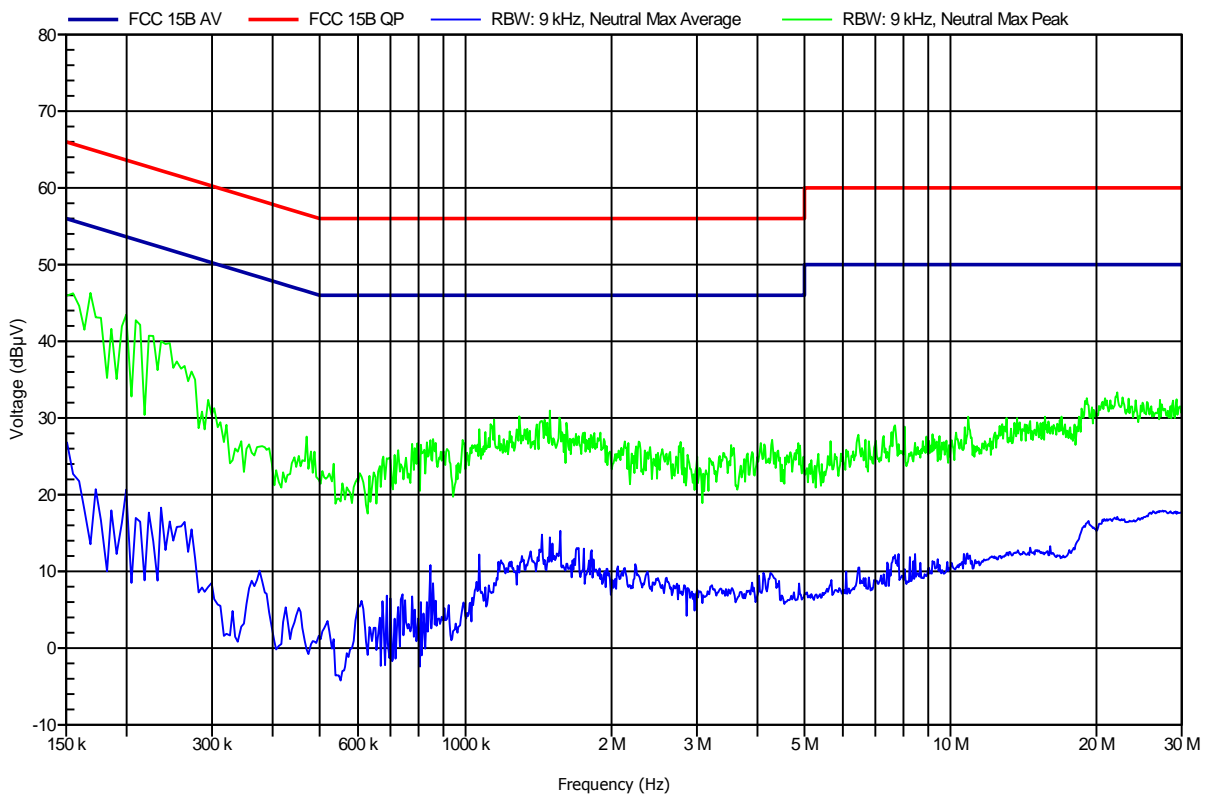
Conducted emissions acc. FCC 47 CFR 15.107 / IC RSS-Gen			Verdict: PASS	
Laboratory Parameters:	Required prior to the test	During the test		
Ambient Temperature	15 to 35°C	22°C		
Relative Humidity	30 to 60%	35%		
Test according referenced standards	Reference Method			
	ANSI C63.4			
Fully configured sample scanned over the following frequency range	Frequency range			
	0.15MHz to 30MHz			
Sample is tested with respect to the requirements of the equipment class	Equipment class			
	Class B			
Points of Application	Application Interface			
AC Mains	LISN			
Operating mode	1			
Limits and results Class B				
Frequency [MHz]	Quasi-Peak [dBµV]	Result	Average [dBµV]	Result
0.15 to 5	66 to 56*	PASS	56 to 46*	PASS
0.5 to 5	56	PASS	46	PASS
5 to 30	60	PASS	50	PASS
Comments:				
* Limit decreases linearly with the logarithm of the frequency.				

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

Project number: G0M-1201-1698

Manufacturer:	GN Netcom A/S
EUT Name:	USB Bluetooth dongle
Model:	LINK360
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Unom: USB
LISN:	ESH2-Z5 N
Mode:	Bluetooth link
Test Date:	03.02.2012
Note:	

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

Project number: G0M-1201-1698

Manufacturer:	GN Netcom A/S
EUT Name:	USB Bluetooth dongle
Model:	LINK360
Test Site:	Eurofins Product Service GmbH
Operator:	Mr. Handrik
Test Conditions:	Tnom: 23°C, Unom: USB
LISN:	ESH2-Z5 L
Mode:	Bluetooth link
Test Date:	03.02.2012
Note:	

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