

TEST REPORT FROM RFI GLOBAL SERVICES LTD

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)

To: FCC Part 15.247: 2004 (Subpart C)

Test Report Serial No:
RFI/MPTE1/RP48063JD05A

This Test Report Is Issued Under The Authority Of Andrew Brown, Operations Manager:	
 pp	
Tested By: Raul Recio  Pp	Checked By: Nigel Davison 
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1. Client Information

Company Name:	GN Mobile A/S (GN Netcom A/S).
Address:	Metalbuen 66, P.O. Box 201 DK-2750 Ballerup Denmark
Contact Name:	Mr S Kaiser

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2. Equipment Under Test (EUT)

The following information (with the exception of the Date of Receipt) has been supplied by the client:

2.1. Identification of Equipment Under Test (EUT)

Brand Name:	Jabra
Model Name or Number:	BT135
Serial Number:	Not Stated
Hardware Revision:	27-00119-b
Software Revision:	Not Stated
Software Version Number:	1-4-0
FCC ID Number:	BCE-BT135
Country of Manufacture:	China
Date of Receipt:	18 April 2006

2.2. Description of EUT

The equipment under test is a wireless *Bluetooth* headset.

2.3. Modifications Incorporated in EUT

During the course of testing the EUT was not modified.

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2.4. Additional Information Related to Testing

Power Supply Requirement:	Internal battery supply of 3.7 V Battery Charger 110 V 60 Hz AC Mains		
Intended Operating Environment:	Within GSM coverage		
Equipment Category:	Portable (standalone battery powered device)		
Type of Unit:	Bluetooth Transceiver		
Transmit Frequency Range:	2400 to 2483.5 MHz		
Transmit Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	2402
	Middle	40	2441
	Top	79	2480
Receive Frequency Range:	2400 to 2483.5 MHz		
Receive Channels Tested:	Channel ID	Channel Number	Channel Frequency (MHz)
	Bottom	1	2402
	Middle	40	2441
	Top	79	2480
Maximum Power Output (EIRP)	4 dBm		

2.5. Port Identification

Port	Description	Type	Applicable
1	USB Charger Port	Mini USB	Charger

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2.6. Support Equipment

The following support equipment was used to exercise the EUT during testing:

Description:	Charger
Brand Name:	Jabra (Friwo)
Model Name or Number:	FW7600/05
Serial Number:	None stated
Cable Length and Type:	Unshielded Multicore, 1.2m
Connected to Port:	Power Supply

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3. Test Results

Reference:	FCC Part 15.247: 2004 Subpart C
Title:	Code of Federal Regulations, Part 15.247 (47CFR22) (Intentional Radiators operating within the bands 902-928 MHz, 2400-2483.5 MHz and 5725-5850 MHz)

3.1. Methods and Procedures

The methods and procedures used were as detailed in:

ANSI C63.2 (1987)

Title: American National Standard for Instrumentation - Electromagnetic noise and field strength.

ANSI C63.4 (2003)

Title: American National Standard Methods of Measurement of Electromagnetic Emissions from Low Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

ANSI C63.5 (1988)

Title: American National Standard for the Calibration of antennas used for Radiated Emission measurements in Electromagnetic Interference (EMI) control.

ANSI C63.7 (1988)

Title: American National Standard Guide for Construction of Open Area Test Sites for performing Radiated Emission Measurements.

CISPR 16-1: (1999)

Title: Specification For Radio Disturbance and Immunity Measuring Apparatus and Methods. Part 1: Radio Disturbance and Immunity Measuring Apparatus.

DA00-705 (2000)

Title: Filing and Frequency Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

3.2. Definition of Measurement Equipment

The measurement equipment used complied with the requirements of the standards referenced in the methods & procedures section above. Appendix 1 contains a list of the test equipment used.

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4. Deviations from the Test Specification

None

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5. Operation of the EUT during Testing

5.1. Operating Modes

The EUT was tested in the following operating modes, unless otherwise stated.

For all transmit mode measurements the *Bluetooth* test mode was active and set to transmit on top, middle and bottom channels and hopping on all channels as necessary with the longest data packet size.

Receive mode measurements were performed with the EUT in *Bluetooth* mode and in its normal search mode.

5.2. Configuration and Peripherals

The EUT was tested in the following configuration:

Without charger connected for transmitter testing and with charger connected for standby as this was seen to be worse case.

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6. Summary of Test Results

Range of Measurements	Specification Reference	Port Type	Compliance Status
Idle Mode AC Conducted Emissions (150 kHz to 30 MHz)	C.F.R. 47 FCC Part 15: 2004 Section 15.107	AC Mains	Complied
Idle Mode Radiated Spurious Emissions	C.F.R. 47 FCC Part 15: 2004 Section 15.109	Antenna	Complied
Transmitter AC Conducted Emissions (150 kHz to 30 MHz)	C.F.R. 47 FCC Part 15: 2004 Section 15.207	AC Mains	Note 1
Transmitter 20 dB Bandwidth	C.F.R. 47 FCC Part 15: 2004 Section 15.247(a)(1)	Antenna Terminals	Complied
Transmitter Carrier Frequency Separation	C.F.R. 47 FCC Part 15: 2004 Section 15.247(a)(1)	Antenna Terminals	Complied
Transmitter Average Time of Occupancy	C.F.R. 47 FCC Part 15: 2004 Section 15.247(a)(1)(iii)	Antenna Terminals	Complied
Transmitter Maximum Peak Output Power	C.F.R. 47 FCC Part 15: 2004 Section 15.247(b)(1)	Antenna Terminals	Complied
Transmitter Radiated Emissions	C.F.R. 47 FCC Part 15: 2004 Sections 15.247(d) & 15.209(a)	Antenna Terminals	Complied
Transmitter Band Edge Radiated Emissions	C.F.R. 47 FCC Part 15: 2004 Sections 15.247(d) & 15.209(a)	Antenna Terminals	Complied

Note(s):

1. No testing was performed for Transmitter AC Conducted Emissions as the EUT cannot be placed into transmit mode, whilst the device is charging (i.e. the AC charger is connected and charging via a 110 V AC Mains power supply).

6.1. Location of Tests

All the measurements described in this report were performed at the premises of RFI Global Services Ltd, Ewhurst Park, Ramsdell, Basingstoke, Hampshire, RG26 5RQ.

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7. Measurements, Examinations and Derived Results

7.1. General Comments

This section contains test results only.

Measurement uncertainties are evaluated in accordance with current best practice. Our reported expanded uncertainties are based on standard uncertainties, which are multiplied by an appropriate coverage factor to provide a statistical confidence level of approximately 95%. Please refer to Section 8 for details of measurement uncertainties.

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7.2. Test Results

7.2.1. Idle Mode AC Conducted Spurious Emissions: Section 15.107

The EUT was configured as for ac conducted emission measurements as described in Section 9 of this report.

Tests were performed to identify the maximum emission levels present on the ac mains line of the EUT.

Results:

Quasi-Peak Detector Measurements on Live and Neutral Lines

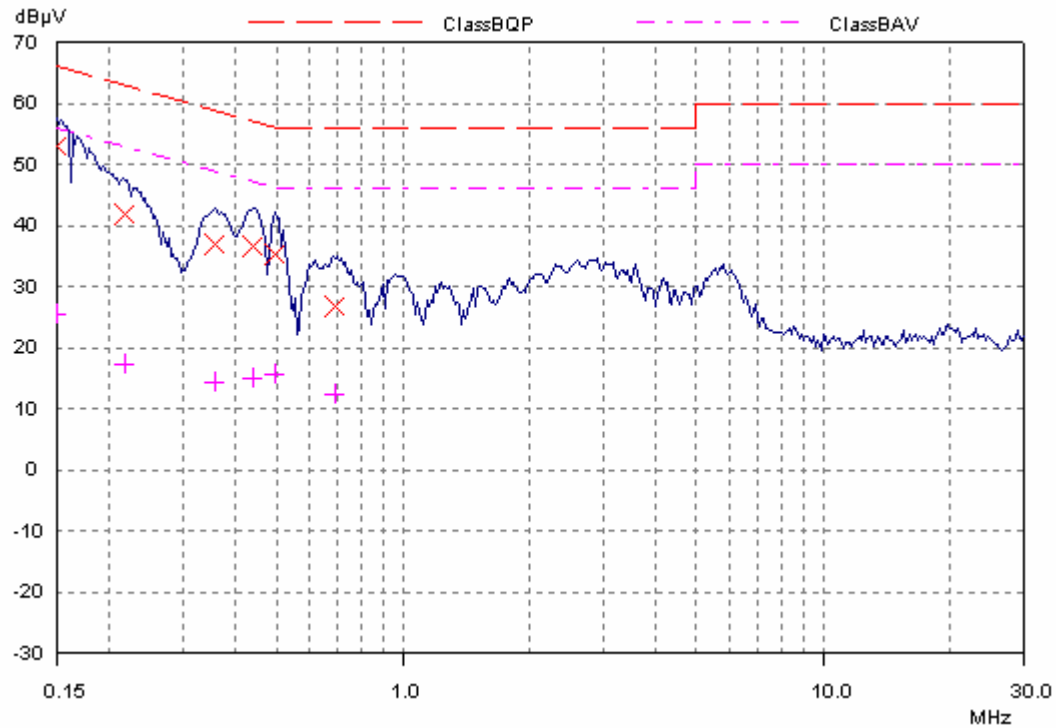
Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.15017	Neutral	52.85	65.99	13.14	Complied
0.21739	Neutral	41.95	62.92	20.97	Complied
0.35886	Neutral	36.93	58.75	21.82	Complied
0.44018	Neutral	36.42	57.06	20.64	Complied
0.49882	Neutral	35.35	56.02	20.67	Complied
0.68839	Neutral	26.77	56.00	29.23	Complied

Average Detector Measurements on Live and Neutral Lines

Frequency (MHz)	Line	Level (dB μ V)	Limit (dB μ V)	Margin (dB)	Result
0.15017	Neutral	25.55	55.99	30.44	Complied
0.21739	Neutral	17.25	52.92	35.67	Complied
0.35886	Neutral	14.40	48.75	34.35	Complied
0.44018	Neutral	15.01	47.06	32.05	Complied
0.49882	Neutral	15.65	46.02	30.37	Complied
0.68839	Neutral	12.17	46.00	33.83	Complied

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Idle Mode AC Conducted Spurious Emissions: Section 15.107 (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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7.2.2. Idle Mode Radiated Spurious Emissions: Section 15.109 - Electric Field Strength Measurements (Frequency Range: 30 to 1000 MHz)

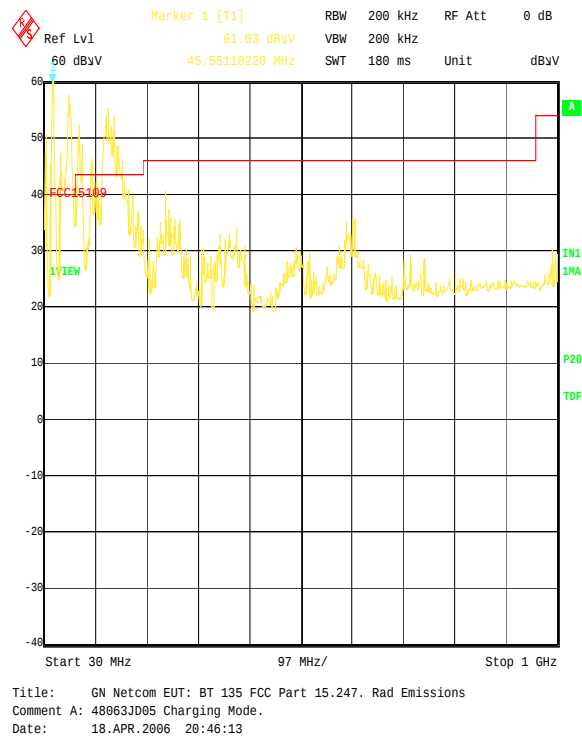
The EUT was configured as for radiated emission testing as described in Section 9 of this report. Tests were performed to identify the maximum receiver or standby radiated emission levels.

Results:

Frequency (MHz)	Antenna Polarity	Q-P Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
46.668	Vertical	19.3	40.0	20.7	Complied
77.219	Vertical	16.0	40.0	24.0	Complied
95.985	Vertical	24.9	43.5	18.6	Complied
120.787	Vertical	14.4	43.5	29.1	Complied
150.416	Vertical	17.5	43.5	26.0	Complied
163.191	Vertical	12.3	43.5	31.2	Complied
260.001	Vertical	12.0	46.0	34.0	Complied
601.182	Horizontal	26.4	46.0	19.6	Complied
613.346	Horizontal	46.0	46.0	0.0	Complied
722.050	Horizontal	26.5	46.0	19.5	Complied

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Idle Mode Radiated Spurious Emissions: Section 15.109 - Electric Field Strength Measurements (Frequency Range: 30 to 1000 MHz) (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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7.2.3. Idle Mode Radiated Spurious Emissions: Section 15.109 - Electric Field Strength Measurements (Frequency Range: 1 to 12.5 GHz)

Results:

Highest Peak Level:

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
10.688632	Horizontal	42.2	-0.2	42.0	74.0	32.0	Complied

Highest Average Level:

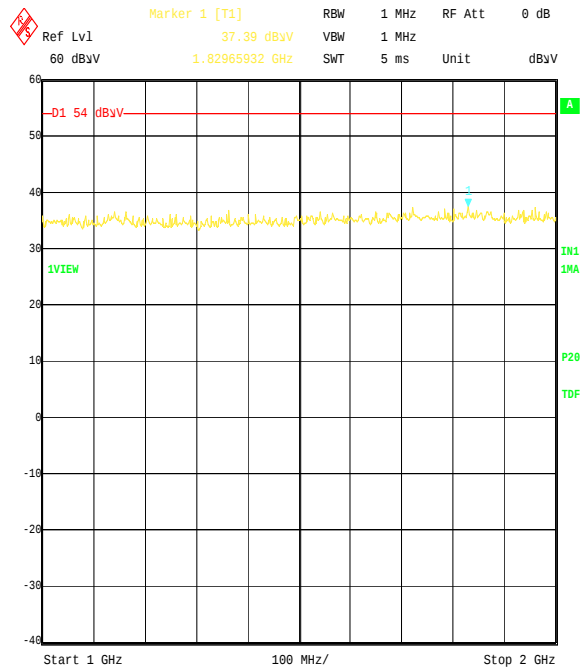
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
10.688632	Horizontal	42.2	-0.2	40.3	54.0	13.7	Complied

Note(s):

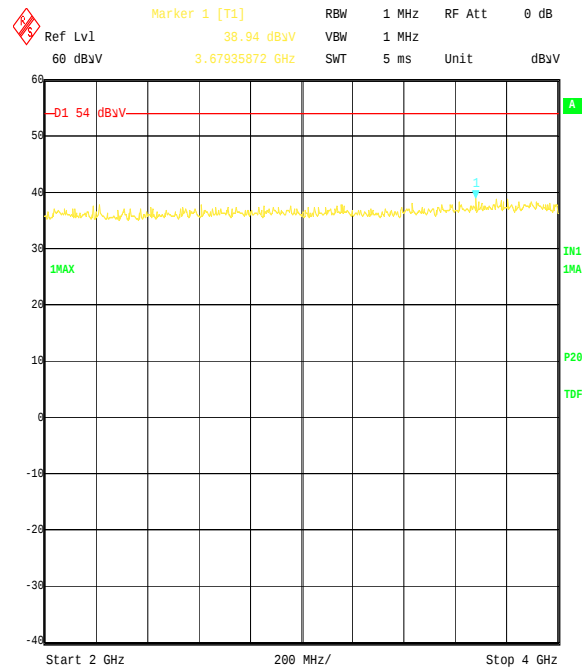
1. The transducer factor incorporates the antenna factor, cables losses, pre-amplifier gain and attenuations.
-

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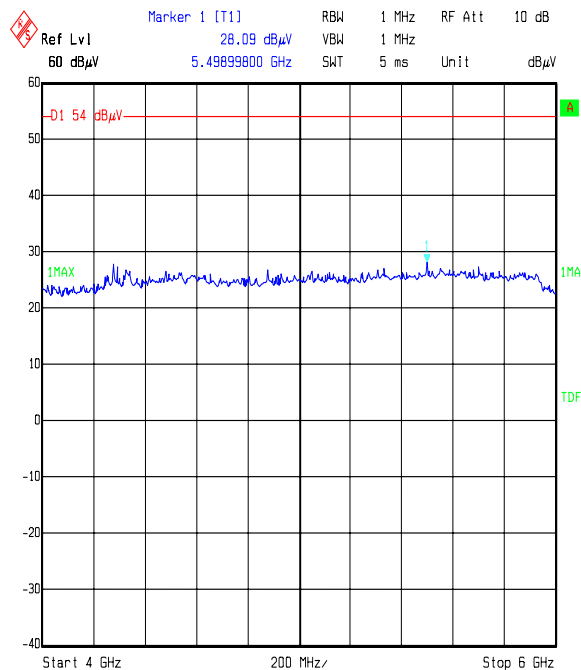
Idle Mode Radiated Spurious Emissions: Section 15.109 - Electric Field Strength Measurements (Frequency Range: 1 to 12.5 GHz) (Continued)



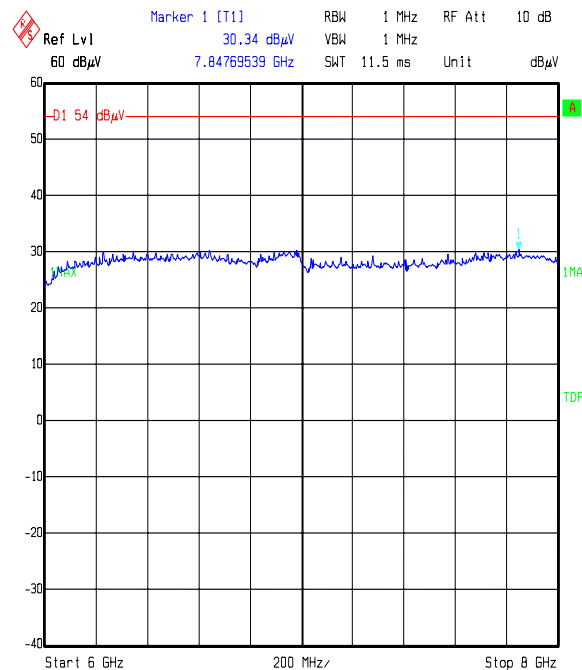
Title: GN Netcom EUT: BT 135 FCC Part 15.247. Rad Emissions
Comment A: 48063JD05 Charging Mode.
Date: 18.APR.2006 21:00:33



Title: GN Netcom EUT: BT 135 FCC Part 15.247. Rad Emissions
Comment A: 48063JD05 Charging Mode.
Date: 18.APR.2006 21:02:01



Title: GN Netcom EUT: Jabra BT 135. FCC P15.247 Rad Emissions
Comment A: 48063JD05 Rx Mode.
Date: 12.MAY 2006 09:46:39

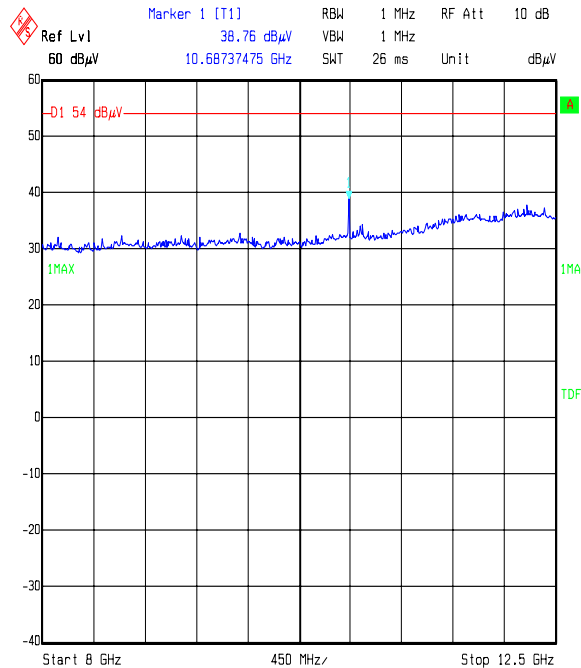


Title: GN Netcom EUT: Jabra BT 135. FCC 15.247 Rad Emissions
Comment A: 48063JD05 Rx Mode.
Date: 12.MAY 2006 09:24:18

Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

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Idle Mode Radiated Spurious Emissions: Section 15.109 - Electric Field Strength Measurements (Frequency Range: 1 to 12.5 GHz) (Continued)



Title: GN Netcom EUT: Jabra BT 135, FCC P15.247 Rad Emissions
Comment A: 48063JD05 Rx Mode.
Date: 12.MAY 2006 09:40:49

Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

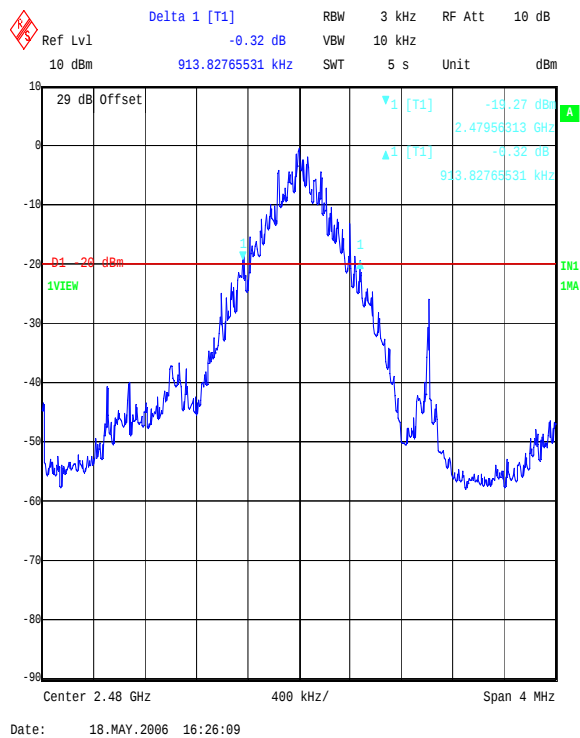
Test of: GN Mobile A/S (GN Netcom A/S).
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7.2.4. Transmitter 20 dB Bandwidth: Section 15.247(a)(1)

The EUT was configured for 20 dB bandwidth measurements as described in Section 9 of this report. Tests were performed to identify the 20 dB bandwidth.

Results:

Transmitter 20 dB Bandwidth (kHz)	Limit (kHz)
913.9	None specified



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7.2.5. Transmitter Carrier Frequency Separation: Section 15.247(a)(1)

The EUT was configured for carrier frequency separation measurements as described in Section 9 of this report.

Tests were performed to identify the carrier frequency separation.

Results:

Transmitter Carrier Frequency Separation (kHz)	Limit (> 20 dB or $\frac{2}{3}$ of 20 dB BW) (kHz)	Margin (kHz)	Result
990.0	925.0	65.0	Complied

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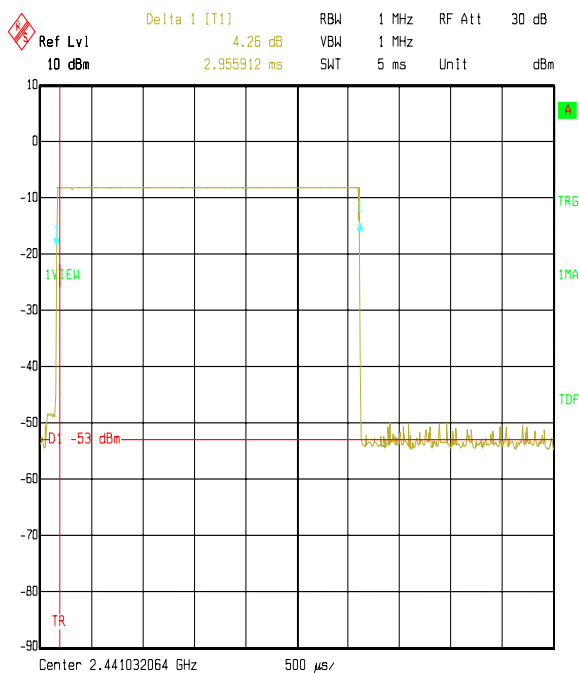
7.2.6. Transmitter Average Time of Occupancy: Section 15.247(a)(1)(iii)

The EUT was configured for average time of occupancy measurements as described in Section 9 of this report.

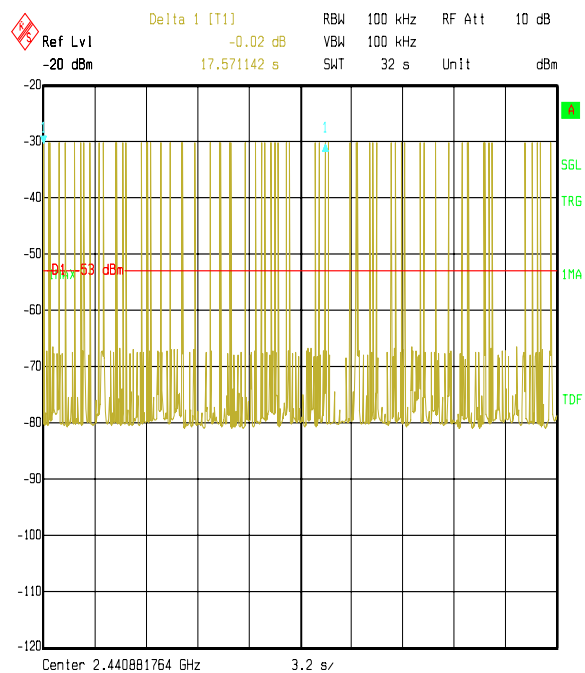
Tests were performed to identify the average time of occupancy in number of channels (79) x 0.4 seconds. The calculated period is 31.6 seconds.

Results:

Emission Width (μs)	Number of Hops in 31.6 Seconds	Average Time of Occupancy (s)	Limit (s)	Margin (s)	Result
2955.912	66	0.19509	0.4	0.2049	Complied



Title: 48063JD05 FCC PART 15.247
Comment A: TX Emission Width
Date: 03.MAY 2006 15:57:58



Title: 48063JD05 FCC PART 15.247
Comment A: Number of hops within 31.6 seconds
Date: 03.MAY 2006 15:15:39

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7.2.7. Transmitter Maximum Peak Output Power: (EIRP) Section 15.247(b)(1)

The EUT was configured for transmitter peak output power measurements as described in Section 9 of this report.

Tests were performed to identify the transmitter maximum peak output power (EIRP) of the EUT.

Results:**Battery Powered Devices**

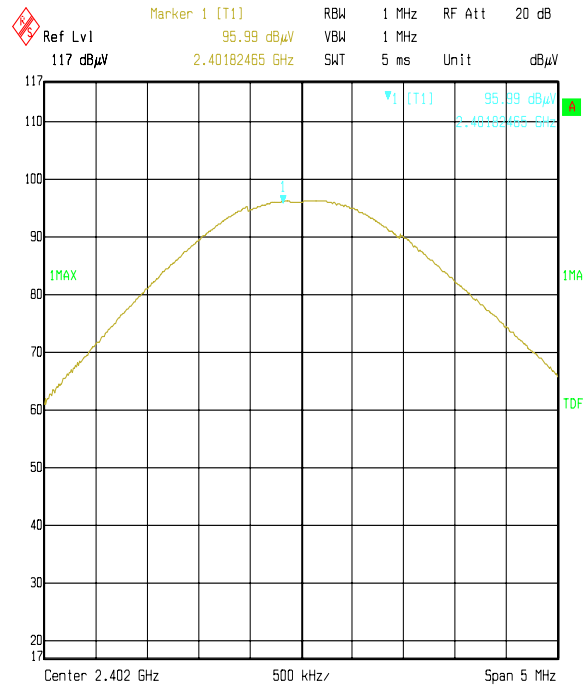
Channel	EIRP (dBm)	Limit (dBm)	Margin (dB)	Result
Bottom	0.6	30.0	27.4	Complied
Middle	3.4	30.0	26.6	Complied
Top	3.8	30.0	26.2	Complied

Note(s):

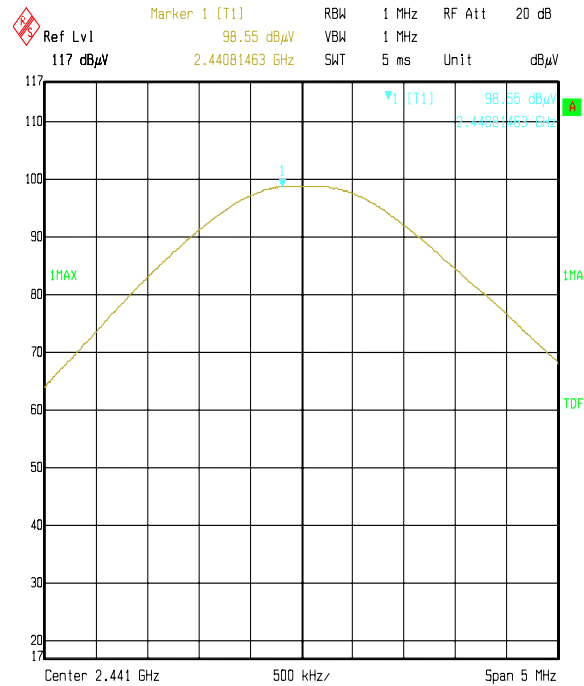
1. These tests were performed radiated; therefore the EUT antenna gain is encompassed in the final result and not measurable.
-

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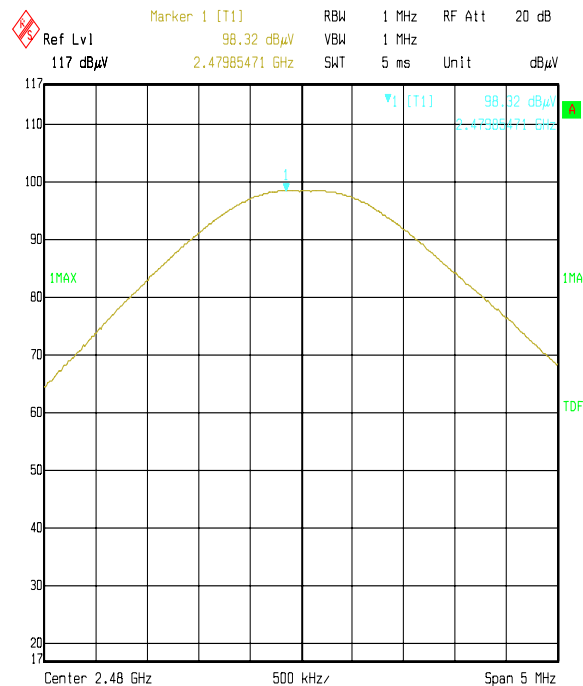
Transmitter Maximum Peak Output Power: (EIRP) Section 15.247(b)(1) (Continued)



Title: GN Netcom 48063JD05 Jabra BT 135
Date: 19.APR.2006 16:18:02



Title: GN Netcom 48063JD05 Jabra BT 135
Date: 19.APR.2006 15:56:51



Title: GN Netcom 48063JD05 Jabra BT 135
Date: 19.APR.2006 15:50:39

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7.2.8. Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) - Electric Field Strength Measurements: 30 to 1000 MHz

The EUT was configured for radiated emission testing as described in Section 9 of this report.

Tests were performed to identify the maximum transmitter radiated emission levels.

Results:

Top Channel

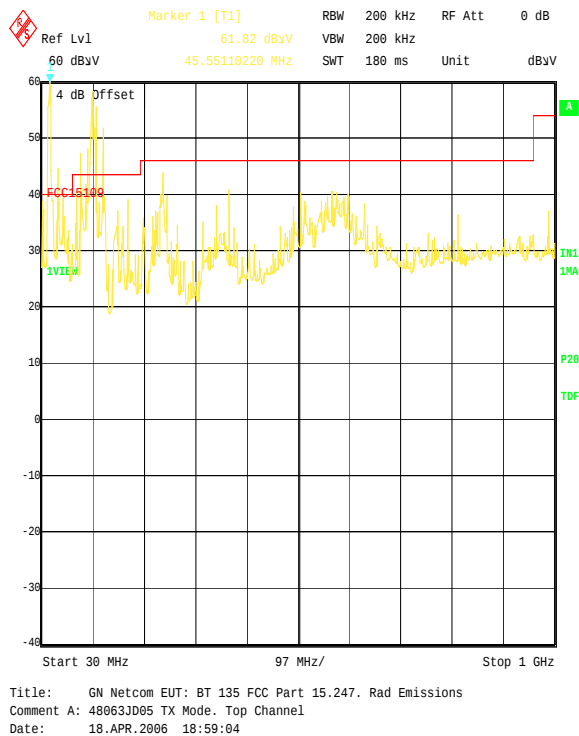
Frequency (MHz)	Antenna Polarity	Q-P Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
126.858	Vertical	25.5	43.5	18.0	Complied
260.001	Vertical	11.8	46.0	34.2	Complied
609.850	Vertical	23.6	46.0	22.4	Complied
986.664	Vertical	32.3	54.0	21.7	Complied

Note(s):

1. The preliminary scans showed similar emission levels for each mode below 1 GHz, therefore final radiated emissions measurements were performed with the EUT set to the top channel only.
-

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7.2.9. Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) - Electric Field Strength Measurements: 30 to 1000 MHz (Continued)



Note: This plot is a pre-scan and for indication purposes only. For final measurements, see accompanying tables.

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7.2.10. Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) - Electric Field Strength Measurements (Frequency Range: 1 to 25 GHz)

The EUT was configured for radiated emission testing as described in Section 9 of this report.

Tests were performed to identify the maximum transmitter radiated emission levels.

Results:

Highest Peak Level: Bottom Channel

Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1205.040	Vertical	23.0	-12.4	35.4	74.0	38.6	Complied
1312.050	Vertical	21.2	-12.4	33.6	74.0	40.4	Complied
2383.870	Horizontal	29.8	-11.0	40.8	74.0	33.2	Complied
4804.070	Vertical	47.4	-6.5	53.9	74.0	20.1	Complied
7205.496	Vertical	36.1	-4.4	40.5	74.0	33.5	Complied
10688.840	Horizontal	51.3	2.6	48.7	74.0	25.3	Complied

Highest Average Level: Bottom Channel

Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1205.040	Vertical	13.6	-12.4	26.4	54.0	27.6	Complied
1312.050	Vertical	10.8	-12.4	23.2	54.0	30.8	Complied
2383.870	Horizontal	25.5	-11.0	36.5	54.0	17.5	Complied
4804.070	Vertical	44.5	-6.5	51.0	54.0	3.0	Complied
7205.496	Vertical	32.3	-4.4	36.7	54.0	17.3	Complied
10688.840	Horizontal	27.5	2.6	24.9	54.0	29.1	Complied

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Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) - Electric Field Strength Measurements (Frequency Range: 1 to 25 GHz) (Continued)

Highest Peak Level: Middle Channel

Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1205.040	Vertical	23.0	-12.4	35.4	74.0	38.6	Complied
1312.050	Vertical	21.2	-12.4	33.6	74.0	40.4	Complied
1609.990	Vertical	25.2	-11.9	37.1	74.0	36.9	Complied
4882.070	Vertical	45.4	-6.2	51.6	74.0	22.4	Complied
7322.700	Vertical	33.9	-4.4	38.3	74.0	35.7	Complied
10688.840	Horizontal	50.3	2.6	48.7	74.0	25.3	Complied

Highest Average Level: Middle Channel

Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1205.040	Vertical	14.0	-12.4	26.4	54.0	27.6	Complied
1312.050	Vertical	10.8	-12.4	23.2	54.0	30.8	Complied
1609.990	Vertical	19.8	-11.9	31.7	54.0	22.3	Complied
4882.070	Vertical	41.1	-6.2	48.0	54.0	6.0	Complied
7322.700	Vertical	28.7	-4.4	33.1	54.0	20.9	Complied
10688.840	Horizontal	27.5	2.6	24.9	54.0	29.1	Complied

Highest Peak Level: Top Channel

Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1205.040	Vertical	23.0	-12.4	35.4	74.0	38.6	Complied
1312.050	Vertical	21.2	-12.4	33.6	74.0	40.4	Complied
2383.870	Horizontal	29.8	-11.0	40.8	74.0	33.2	Complied
4960.080	Vertical	46.1	-5.9	52.0	74.0	22.0	Complied
7639.965	Vertical	31.3	-4.3	35.6	74.0	38.4	Complied
10688.840	Horizontal	51.3	2.6	48.7	74.0	25.3	Complied

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) - Electric Field Strength Measurements (Frequency Range: 1 to 25 GHz) (Continued)

Highest Average Level: Top Channel

Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1205.040	Vertical	14.0	-12.4	26.4	54.0	27.6	Complied
1312.050	Vertical	11.2	-12.4	23.6	54.0	30.4	Complied
2383.870	Horizontal	25.5	-11.0	36.5	54.0	17.5	Complied
4960.080	Vertical	42.9	-5.9	48.8	54.0	5.2	Complied
7639.965	Vertical	24.3	-4.3	28.6	54.0	25.4	Complied
10688.840	Horizontal	27.5	2.6	24.9	54.0	29.1	Complied

Highest Peak Level: Hopping Mode

Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Antenna Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1205.040	Vertical	23.0	-12.4	35.4	74.0	38.6	Complied
1312.540	Vertical	21.2	-12.4	33.6	74.0	40.4	Complied
4804.070	Vertical	47.4	-6.5	53.9	74.0	20.1	Complied
7235.476	Vertical	25.7	-4.4	40.1	74.0	33.9	Complied
10688.840	Horizontal	47.9	-0.8	48.7	74.0	25.3	Complied

Highest Average Level: Hopping Mode

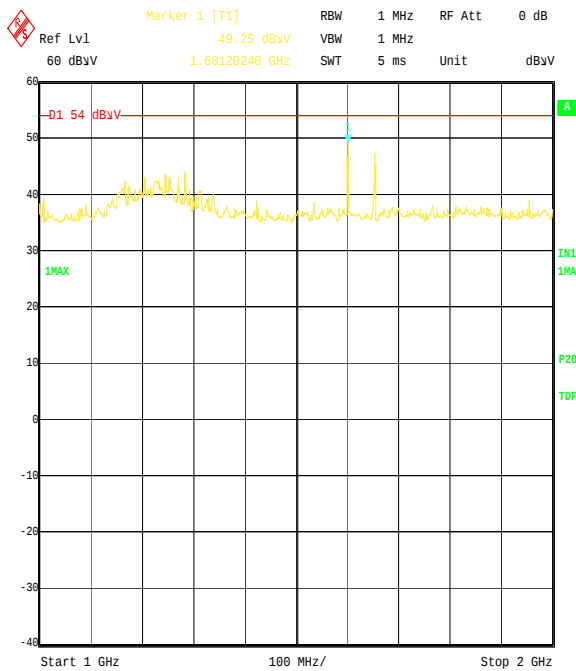
Frequency (MHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
1205.040	Vertical	14.0	-12.4	26.4	54.0	27.6	Complied
1312.540	Vertical	10.8	-12.4	23.2	54.0	30.8	Complied
4804.070	Vertical	44.5	-6.5	51.0	54.0	3.0	Complied
7235.476	Vertical	31.4	-4.4	35.8	54.0	18.2	Complied
10688.840	Horizontal	24.1	-0.8	24.9	54.0	29.1	Complied

Note(s):

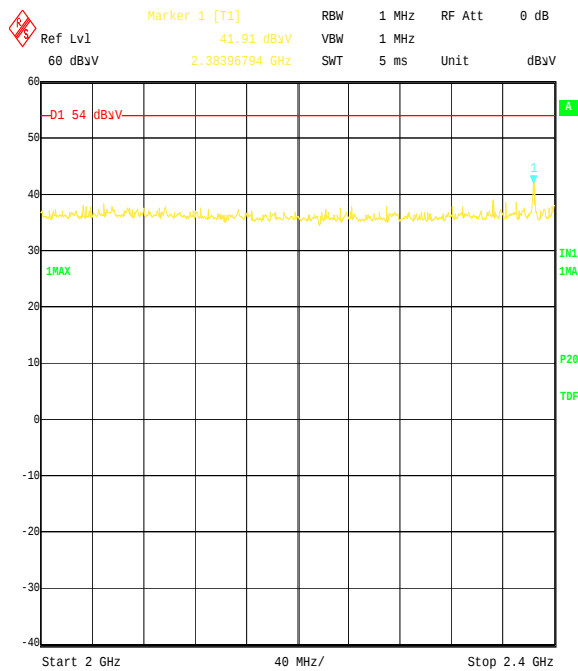
1. The transducer factor incorporates the antenna factor, cables losses, pre-amplifier gain and attenuations.

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) - Electric Field Strength Measurements (Frequency Range: 1 to 25 GHz) (Continued)



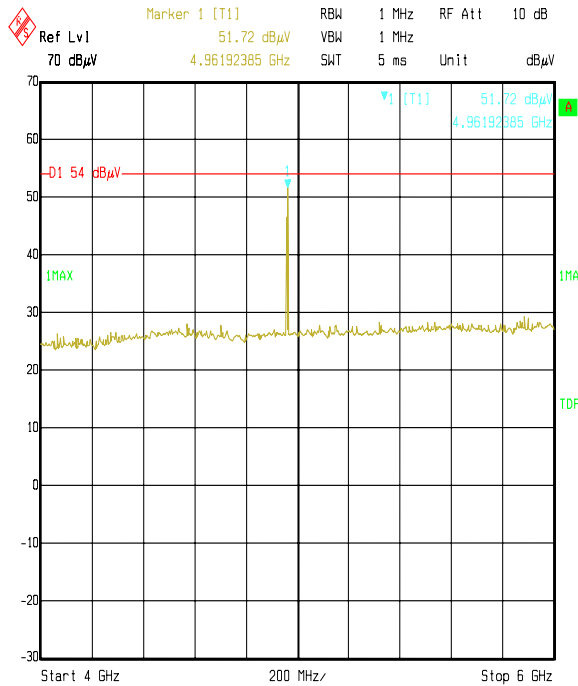
Title: GN Netcom EUT: BT 135 FCC Part 15.247. Rad Emissions
Comment A: 48063JD05 TX Mode. Top Channel
Date: 18.APR.2006 19:23:25



Title: GN Netcom EUT: BT 135 FCC Part 15.247. Rad Emissions
Comment A: 48063JD05 TX Mode. Top Channel
Date: 18.APR.2006 19:30:20



Title: GN Netcom EUT: BT 135 FCC Part 15.247. Rad Emissions
Comment A: 48063JD05 TX Mode. Top Channel
Date: 18.APR.2006 19:32:38

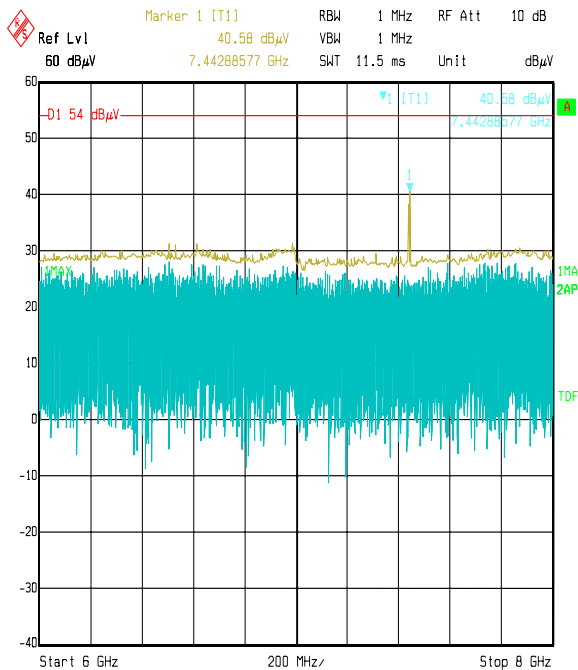


Title: GN Netcom 48063JD05 Jabra BT 135
Date: 20.APR.2006 10:07:50

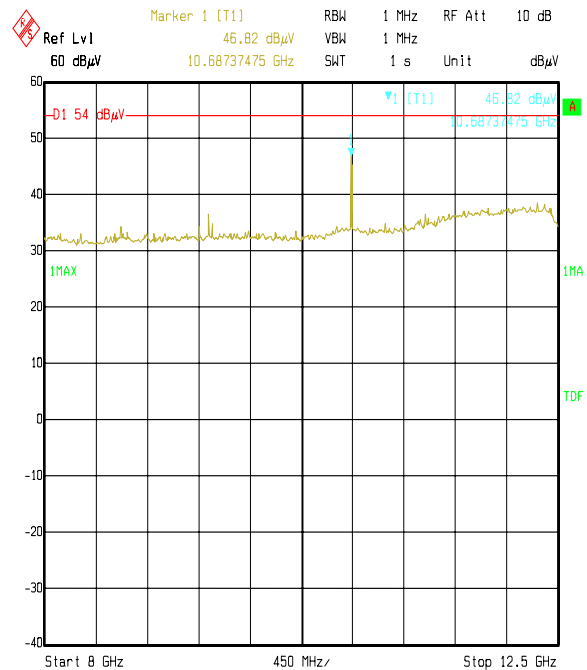
Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

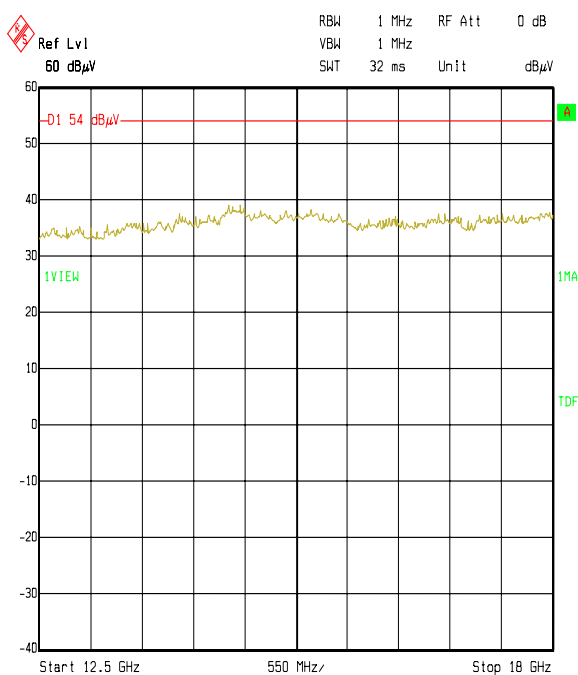
Transmitter Radiated Emissions: Section 15.247(d) and 15.209(a) - Electric Field Strength Measurements (Frequency Range: 1 to 25 GHz) (emissions occurring in the restricted bands) (Continued)



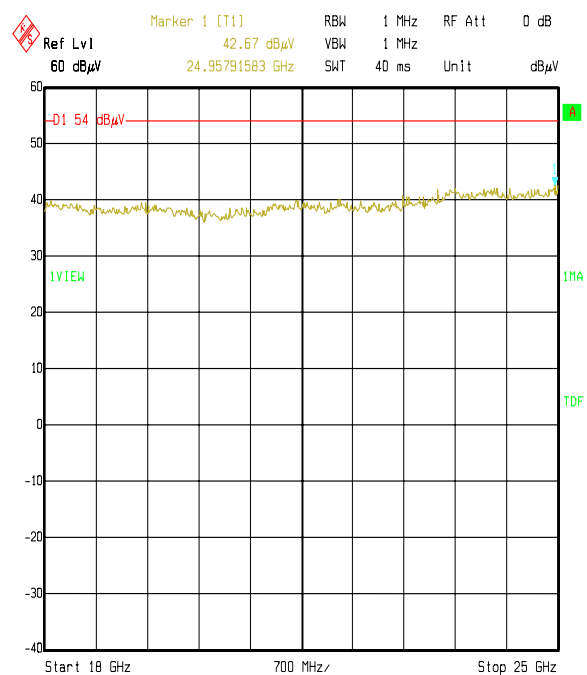
Title: GN Netcom 48063JD05 Jabra BT 135
Comment A: top channel, Hi power.
Date: 20.APR.2006 11:38:44



Title: GN Netcom 48063JD05 Jabra BT 135
Comment A: Top channel, Hi power.
Date: 20.APR.2006 12:03:15



Title: 48063JD05 GN NETCOM A/S BLUETOOTH HEADSET FCC PART 15.247
Comment A: RADIATED SPURIOUS EMISSIONS TX MODE
Date: 28.APR.2006 14:45:17



Title: 48063JD05 FCC PART 15.247
Comment A: RADIATED SPURIOUS EMISSIONS RX MODE
Date: 28.APR.2006 16:24:34

Note: These plots are pre-scans and for indication purposes only. For final measurements, see accompanying tables.

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

7.2.11. Transmitter Band Edge Radiated Emissions: Section 15.247(d) & 15.209(a) - Electric Field Strength Measurements

The EUT was configured for band edge compliance of radiated emission measurements as described in Section 9 of this report.

Tests were performed to identify the maximum radiated band edge emissions.

Results:

Peak Power Level Hopping Mode:

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2.4000	Vertical	55.0	-11.0	44.0	78.5	34.5	Complied
2.4835	Vertical	63.8	-11.4	52.4	74.0	21.6	Complied

Average Power Level Hopping Mode:

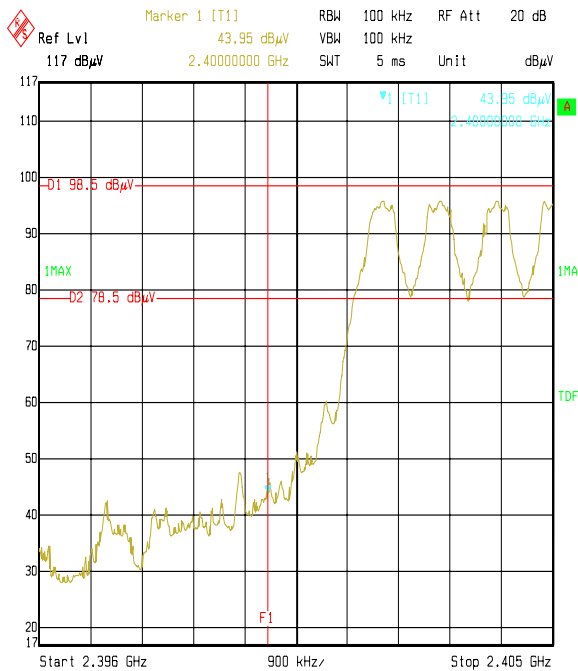
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2.4835	Vertical	46.6	-11.4	35.2	54.0	18.8	Complied

Note(s):

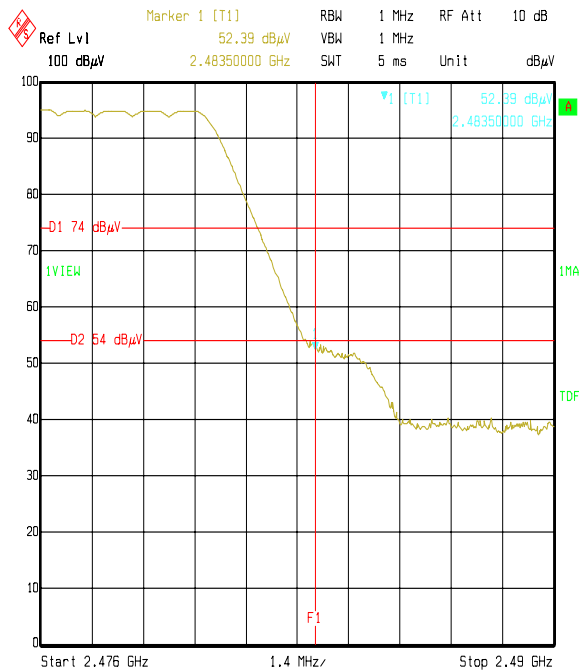
1. The transducer factor incorporates the antenna factor, cables losses, pre-amplifier gain and attenuations.
-

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

Transmitter Band Edge Radiated Emissions: Section 15.247(d) & 15.209(a) - Electric Field Strength Measurements (Continued)



Title: GN Netcom 48063JD05 Jabra BT 135
Comment A: band edge (hopping lo mode)
Date: 19.APR.2006 16:33:57



Title: GN Netcom 48063JD05 Jabra BT 135
Comment A: band edge (hopping hi mode)
Date: 19.APR.2006 16:40:48

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

7.2.12. Transmitter Band Edge Radiated Emissions: Section 15.247(d) & 15.209(a)

The EUT was configured for band edge compliance of radiated emission measurements as described in Section 9 of this report.

Tests were performed to identify the average radiated band edge emissions.

Results:**Peak Power Level Static Mode:**

Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2.4000	Vertical	58.1	-11.0	47.1	75.3	28.2	Complied
2.4835	Vertical	65.7	-11.4	54.3	74.0	19.7	Complied

Average Power Level Static Mode:

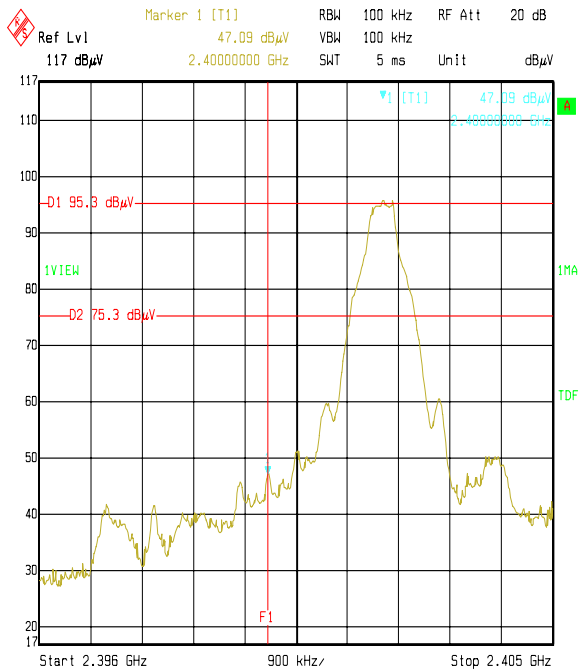
Frequency (GHz)	Antenna Polarity	Detector Level (dB μ V)	Transducer Factor (dB)	Actual Level (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Result
2.4835	Vertical	53.3	-11.4	41.9	54.0	12.1	Complied

Note(s):

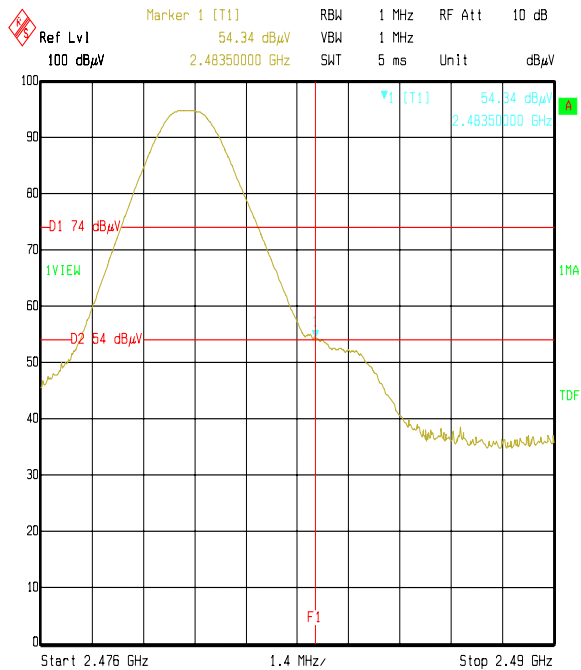
1. The transducer factor incorporates the antenna factor, cables losses, pre-amplifier gain and attenuations.
-

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

Transmitter Band Edge Radiated Emissions: Section 15.247(d) & 15.209(a) (Continued)



Title: GN Netcom 48063JD05 Jabra BT 135
Comment A: band edge (static mode)
Date: 19.APR.2006 16:30:26



Title: GN Netcom 48063JD05 Jabra BT 135
Comment A: band edge (static mode)
Date: 19.APR.2006 16:42:42

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

8. Measurement Uncertainty

No measurement or test can ever be perfect and the imperfections give rise to error of measurement in the results. Consequently, the result of a measurement is only an approximation to the value of the measurand (the specific quantity subject to measurement) and is only complete when accompanied by a statement of the uncertainty of the approximation.

The expression of uncertainty of a measurement result allows realistic comparison of results with reference values and limits given in specifications and standards.

The uncertainty of the result may need to be taken into account when interpreting the measurement results.

The reported expanded uncertainties below are based on a standard uncertainty multiplied by an appropriate coverage factor, such that a confidence level of approximately 95% is maintained. For the purposes of this document “approximately” is interpreted as meaning “effectively” or “for most practical purposes”.

Measurement Type	Range	Confidence Level (%)	Calculated Uncertainty
AC Conducted Spurious Emissions	0.15 MHz to 30 MHz	95%	±3.25 dB
Transmitter Maximum Peak Output Power	Not applicable	95%	±2.94 dB
Transmitter Carrier Frequency Separation	Not applicable	95%	±0.01 ppm
Transmitter Average Time of Occupancy	Not applicable	95%	±10 %
20 dB Bandwidth	Not applicable	95%	± 0.12 %
Radiated Spurious Emissions	30 MHz to 1000 MHz	95%	± 5.26 dB
Radiated Spurious Emissions	1 GHz to 40 GHz	95%	±2.94

The methods used to calculate the above uncertainties are in line with those recommended within the various measurement specifications. Where measurement specifications do not include guidelines for the evaluation of measurement uncertainty, the published guidance of the appropriate accreditation body is followed.

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

9. Measurement Methods

9.1. AC Mains Conducted Emissions

AC Mains conducted emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

The test was performed in a shielded enclosure with the equipment arranged as detailed in the standard on a wooden bench using the floor of the screened enclosure as the ground reference plane. The EUT was powered with 110V 60 Hz ac mains supplied via a line impedance stabilisation network (LISN).

Initial measurements in the form of swept scans covering the entire measurement band were performed in order to identify frequencies on which the EUT was generating interference. In order to minimise the time taken for these swept measurements, a peak detector was used in conjunction with the appropriate detector IF measuring bandwidths (see table below). Repetitive scans were performed to allow for emissions with low repetition rates, and the duty cycle of the EUT. The test configuration was the same for the initial scans as for the final measurements.

Following the initial scans, a graph was produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. A tolerance line was set 6 dB below the specification limit and levels above the tolerance line were re-tested (at individual frequencies) using the appropriate detector function.

The test equipment settings for conducted emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements
Detector Type:	Peak	Quasi-Peak (CISPR)/Average
Mode:	Max Hold	Not applicable
Bandwidth:	10 kHz	9 kHz
Amplitude Range:	60 dB	20 dB
Measurement Time:	Not applicable	>1 s
Observation Time:	Not applicable	>15 s
Step Size:	Continuous sweep	Not applicable
Sweep Time:	Coupled	Not applicable

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

9.2. Radiated Emissions

Radiated emissions measurements were performed in accordance with the standard, against appropriate limits for each detector function.

Initial measurements covering the entire measurement band in the form of swept scans in a shielded enclosure were performed in order to identify frequencies on which the EUT was generating interference. This determined the frequencies on which the EUT should be re-measured in full on the open area test site. In order to minimise the time taken for the swept measurements, a peak detector was used in conjunction with the appropriate detector IF measuring bandwidth (see table below). Repetitive scans were performed to allow for emissions with low repetition rates.

The initial scans were performed using an antenna height of 1.5 m and a measurement distance of 3 m. Following the initial scans, graphs were produced giving an overview of the emissions from the EUT plotted against the appropriate specification limit. Any emission within 20 dB of the limit were then measured on the open area test site, except in cases where the noise floor was within 20 dB of the limit, in these cases the highest point of the noise floor was measured.

Where an emission fell inside a restricted band, measurements were made at the appropriate test distance using a measuring receiver with a quasi peak detector for measurements below 1000 MHz and an average and peak detector for measurements above 1000 MHz. A peak detector was used for all other measurements.

For the final measurements the EUT was arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2003 Clause 5.4.

All measurements on the open area test site were performed using broadband antennas in both vertical and horizontal polarisations.

On the open area test site, at each frequency where a signal was to be measured, the trace was maximised by rotating a turntable through 360°. The angle at which the maximum signal was observed was locked out. For frequencies below 1000 MHz the test antenna was varied in height between 1 m and 4 m in order to further maximise the target emission.

For frequencies above 1000 MHz where a horn antenna was used, height searching was performed to locate the optimal height of the horn with respect to the EUT. At this point the horn was locked off and the turntable was again rotated through 360° to maximise the target signal. It should be noted that the received signal from the EUT would diminish very quickly after it exits the beam width of the horn antenna, for this reason it may not be necessary to fully height search with the horns.

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

Radiated Emissions (Continued)

At this point, any signals found to be between the limit and a level 6 dB below it were further maximised by changing the configuration of the EUT, e.g. re-routing cables to peripherals and moving peripherals with respect to the EUT.

Scans were performed to the upper frequency limits as stated in Section 15.33

The final field strength was determined as the indicated level in dB μ V plus cable loss and antenna factor.

The test equipment settings for radiated emissions measurements were as follows:

Receiver Function	Initial Scan	Final Measurements <1 GHz	Final Measurements ≥1 GHz
Detector Type:	Peak	Quasi-Peak (CISPR)	Peak / Average
Mode:	Max Hold	Not applicable	Max Hold
Bandwidth:	(120 kHz <1 GHz) (1 MHz ≥1 GHz)	120 kHz	1 MHz
Amplitude Range:	100 dB	100 dB	100 dB
Step Size:	Continuous sweep	Not applicable	Not applicable
Sweep Time:	Coupled	Not applicable	Not applicable

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

9.3. Carrier Frequency Separation / 20 dB Bandwidth

The EUT and spectrum analyser was configured as for conducted antenna port / radiated measurements, and as per FCC Public Notice DA 00-705, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

To determine the bandwidth and separation of each transmission channel the measurement analyser was configured to measure two adjacent channels whilst the EUT was in hopping mode. The spectrum analyser was configured with a resolution bandwidth and video bandwidth greater than 1% of the frequency span.

The analyser was set for a maximum hold scan to capture the profile of the signal. The peak points on the two adjacent channels were noted and the separation between them recorded.

To determine the occupied bandwidth, a resolution bandwidth of 10 kHz was used, which is greater than 1% of the 20 dB bandwidth. A video bandwidth of, at least, the same value was used.

The analyser was set for a maximum hold scan to capture the profile of the signal. The peak level was then determined, and a reference line was drawn 20 dB below the peak level.

The bandwidth was determined at the points where the 20 dB reference line intercepted the power envelope of the emission.

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

9.4. Average Time of Occupancy

The EUT and spectrum analyser was configured as for conducted antenna port / radiated measurements, and as per FCC Public Notice DA 00-705, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

First the maximum packet length was determined on the centre channel.

The measurement analyser was configured to the time domain mode by setting the span to zero with a sweep time sufficiently wide enough to measure one pulse.

The EUT was configured to operate in normal mode of operation. The pulse width of one transmission was then recorded. The measurement analyser was then configured in zero span i.e. in the time domain and the sweep time was set to 32 seconds (the closest allowable setting to 31.6 seconds). This 31.6 second period was determined by multiplying the number of channels the device operates over (79) by 0.4 seconds.

The number of transmissions within this period was noted and multiplied by the pulse width recorded earlier. This gives the maximum occupancy over 31.6 seconds.

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

9.5. Effective Isotropic Radiated Power (EIRP)

EIRP measurements were performed in accordance with the standard, against appropriate limits.

The EIRP was measured with the EUT arranged on a non-conducting turn table on a standard test site compliant with ANSI C63.4 – 2003 Clause 5.4. The transmitter was fitted with an integral antenna; therefore all radiated tests were performed with the unit operating into the integral antenna.

The level of the EIRP was measured using a spectrum analyser.

The test antenna was positioned in the horizontal plane. The EUT was oriented in the X plane. The test antenna was then raised and lowered until a maximum peak was observed. The turntable was then rotated through 360 degrees and the maximum peak reading obtained. The height search was then repeated to take into consideration the new angular position of the turntable. The maximum reading observed was then recorded. This procedure was then repeated with the EUT oriented in the Y and Z planes. The highest reading taken in all 3 planes was recorded. The entire procedure was then repeated with the test antenna set in the vertical polarity.

Once the final amplitude (maximised) had been obtained, the EUT was substituted with a horn antenna. The centre of the substitution antenna was set to approximately the same centre location as the EUT. The substitution antenna was set to the horizontal polarity. The substitution antenna was matched into a signal generator using a 6 dB or greater attenuator. The signal generator was tuned to the EUT's frequency under test.

The test antenna was then raised and lowered to obtain a maximum reading on the spectrum analyser. The level of the signal generator output was then adjusted until the maximum recorded EUT level was observed. The signal generator level was noted. This procedure was repeated with both test antenna and substitution antenna vertically polarised. The EIRP was calculated as:-

$$\text{EIRP} = \text{Signal Generator Level} - \text{Cable Loss} + \text{Antenna Gain}$$

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

Effective Isotropic Radiated Power (EIRP) (Continued)

Circumstances where the signal generator could not produce the desired a power substitution was performed with the signal generator set to 0 dBm. The radiated signal was maximised as previously described. The level indicated on the measuring receiver was noted. The delta between this level and the maximum level for the EUT was calculated and also noted. The EIRP of the signal generator was calculated using the above formulae. The recorded delta was added to the calculated EIRP to obtain the substituted EUT EIRP.

$$\text{Delta (dB)} = \text{EUT} - \text{SG}$$

where :

EUT = spectrum analyser indicated EUT raw level

SG = spectrum analyser indicated signal generator raw level

The signal generator actual EIRP is calculated as:

$$\text{EIRP SG} = \text{Signal Generator Level} - \text{Cable Loss} + \text{Antenna Gain}$$

The EUT EIRP is calculated as:

$$\text{EIRP EUT} = \text{EIRP SG} + \text{Delta.}$$

The test equipment settings for EIRP measurements were as follows:

Receiver Function	Setting
Detector Type:	Peak
Mode:	Not applicable
Bandwidth:	1 MHz
Amplitude Range:	100 dB
Sweep Time:	Coupled

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

9.6. Band Edge Compliance of RF Radiated Emissions

The EUT and spectrum analyser were configured as for radiated measurements and as per FCC Public Notice DA 00-705, Filing and Measurement Guidelines for Frequency Hopping Spread Spectrum Systems.

To determine band edge compliance, the analyser resolution bandwidth was set to $\geq 1\%$ of the analyser span. The video bandwidth was set to be $\geq$ to the resolution bandwidth. The sweep was set to auto and the detector to peak. The trace was set to max hold and a trace was produced.

A plot of the lower band edge of the allocated frequency band was produced. A marker was set to the level of the highest in band emission with a limit line set to 20 dB below this. The marker was then placed on the highest out of band emission (the specification states that either the band edge level must be measured or the highest out of band emission, whichever is the greater). The plots show that the highest out of band emission complies with the -20 dBc limit.

The above procedure was then repeated for the upper band edge except that, as the upper band edge fell on a restricted band edge (as defined in Section 15.205(a)), the limit for the restricted band was applied instead of the -20 dBc limit i.e. the general limits defined in Section 15.209(a).

Final measurements were performed on the worst-case configuration as described in Part 15.31(i).

Test of: GN Mobile A/S (GN Netcom A/S).
Jabra BT 135 (Transceiver)
To: FCC Part 15.247: 2004 (Subpart C)

Appendix 1. Test Equipment Used

RFI No.	Instrument	Manufacturer	Type No.	Serial No.
A027	Horn Antenna	Eaton	9188-2	301
A031	2 to 4 GHz Eaton Horn Antenna	Eaton	91889-2	557
A067	LISN	Rohde & Schwarz	ESH3-Z5	890603/002
A1037	Chase Bilog Antenna	Chase EMC Ltd	CBL6112B	2413
A1360	ESH3-Z2 Pulse Limiter	Rohde & Schwarz	ESH3-Z2	A1360-20112003
A1534	Preamplifier 1-26.5 GHz	Hewlett Packard	8449B OPT H02	3008A00405
A209	Microwave WG 22 attenuator	Lectronic Research	MA 576 F	None
A255	WG 16 Horn	Flann Microwave	16240-20	519
A256	WG 18 Horn	Flann Microwave	18240-20	400
A392	3 dB attenuator (9)	Suhner	6803.17.B	None
A427	WG 14 horn	Flann	14240-20	150
A428	WG 12 horn	Flann	12240-20	134
A430	WG 18 horn	Flann	18240-20	425
A436	WG 20 horn	Flann	20240-20	330
A490	Bilog Antenna	Chase	CBL6111A	1590
C1002	Cable	Rosenberger	FA210A1010M50509	001
C1164	1.5m N-type Cable	Rosenberger Micro-Coax	FA210A1015007070	43188-1
C1166	2m N-Type Cable	Rosenberger Micro-Coax	FA210A1020007070	43189-02
C151	Cable	Rosenberger	UFA210A-1-1181-70x70	None
C323	Cable	Rosenberger	UFA 210A-1-0788-50x50	96A0121
C363	BNC Cable	Rosenberger	RG142	None
C364	BNC Cable	Rosenberger	RG142	None
C453	Cable	Rosenberger	RG142XX-001-RFIB	C453-10081998
C468	N-Type Coaxial Cable	Rosenberger	UFA210A-1-3937-504504	98L0440
G023	OPT.H64 Amplifier	Hewlett Packard	8447F	3113A05059
M003	Spectrum Monitor	Rohde & Schwarz	EZM	883 580/008
M090	Receiver / Spectrum Analyser System	Rohde & Schwarz	ESBI	DU:838494/005 RU:836833/001

Test of: GN Mobile A/S (GN Netcom A/S).
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Test Equipment Used (Continued)

RFI No.	Instrument	Manufacturer	Type No.	Serial No.
M1149	Bluetooth Test Set	Anritsu	MT8852A	6K00001529
M1178	Thermo-Hygro	RS	212-124	N/A
M1242	FSEM30 Spectrum Analyser	Rohde & Schwarz, Inc.	FSEM30	845986_022
M1252	HP 83640A 40 GHz Signal Generator	HP	83640A	3119A00489
M1263	ESIB	Rohde & Schwarz	ESIB7	100265
M166	Digital Environmental Monitor	EuroCom	None	None
M505	Analyser Display Unit	Rohde & Schwarz	ESAI-D	825316/010
M506	RF unit	Rohde & Schwarz	ESBI-RF	827060/004
S0529	DC Power Supply	ISO-Tech	IPS2302A	504E005G2
S201	Site 1	RFI	1	
S202	Site 2	RFI	2	S202-15011990
S209	Site 9	RFI	9	
S212	Site 12	RFI	12	

NB In accordance with UKAS requirements, all the measurement equipment is on a calibration schedule.

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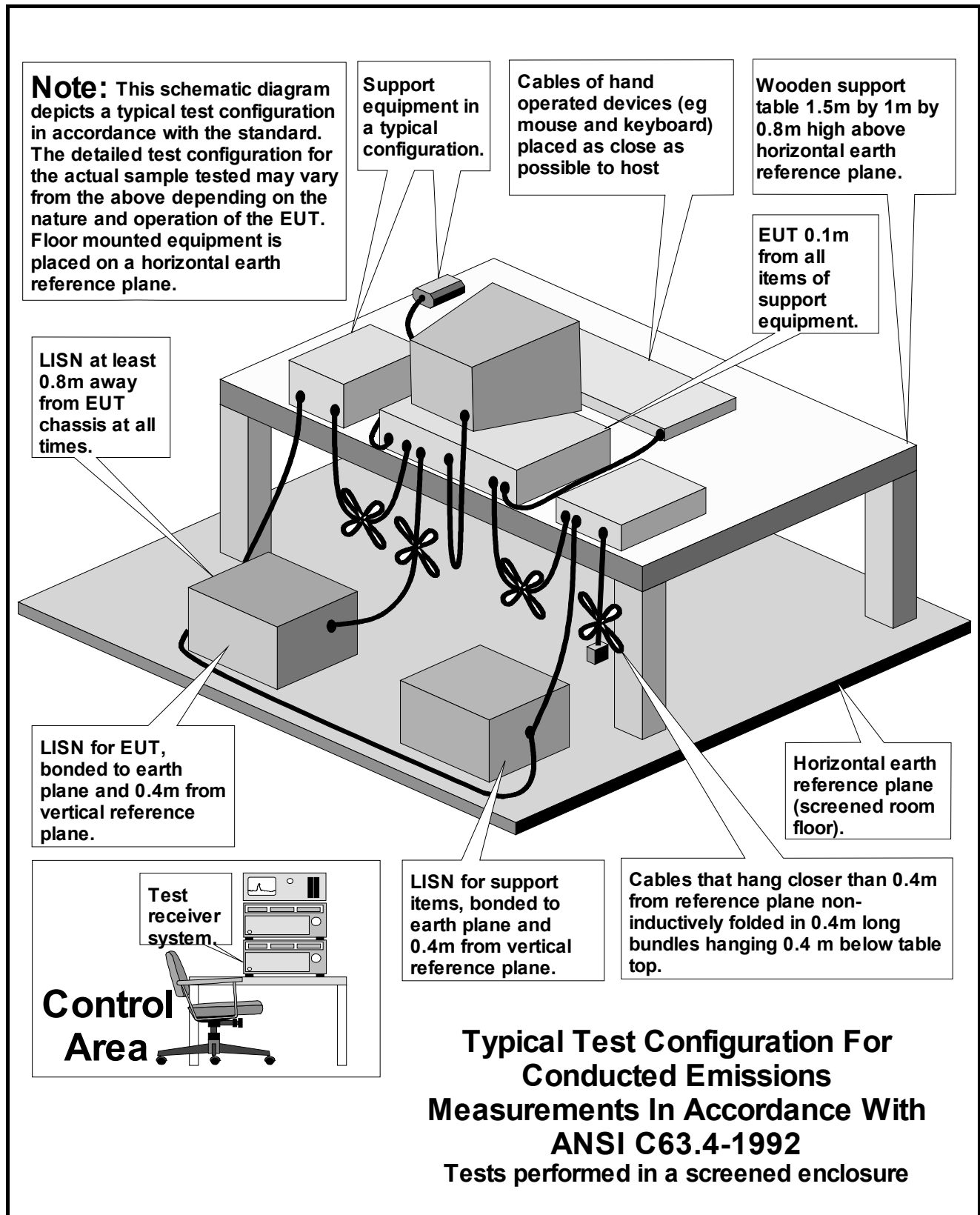
Appendix 2. Test Configuration Drawings

This appendix contains the following drawings:

Drawing Reference Number	Title
DRG\48063JD05\EMICON	Test configuration for measurement of conducted emissions.
DRG\48063JD05\EMIRAD	Test configuration for measurement of radiated emissions.

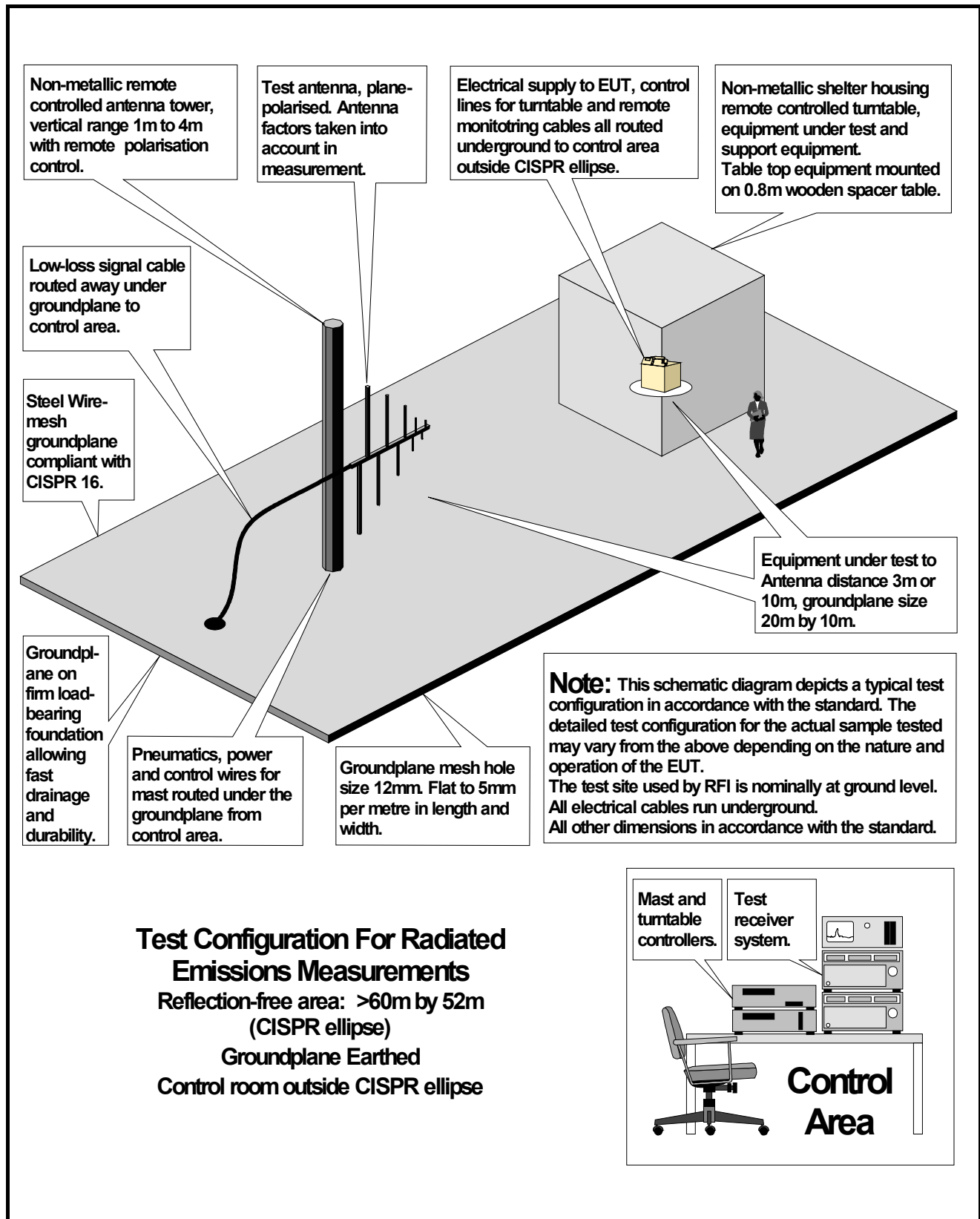
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DRG\48063JD05\EMICON



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DRG\48063JD05\EMIRAD



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