

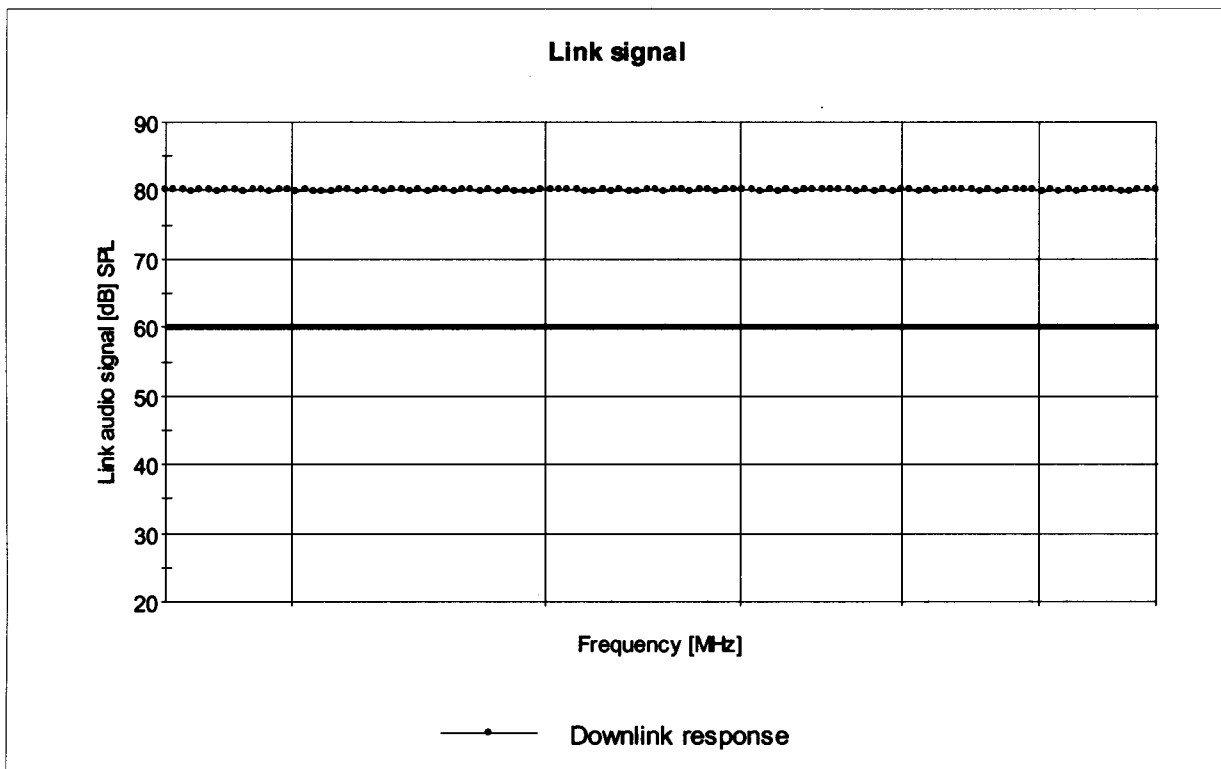
# Graphs

Annex to Test Report UPRR020009-01

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

RF Field Immunity:  
Equipment under Test: Medical Bluetooth Device  
Type No.: NOAHlink  
Operating condition: Receiving and decoding 400Hz signal (80dB SPL)  
Test specification: EN60601-1-2 (1995)

Comments: Front vertival  
Link signal final



Sweep carried out at: 02/Apr/2002 13:51

Sweep Settings:  
Start frequency [MHz]: 26  
Stop frequency [MHz]: 80  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 26 - 80 3V Vertical

Instruments:  
RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

Measuring instruments:

HP 34401A Volt AC (downlink), 20 Log x + 79.3, x 1 + 0

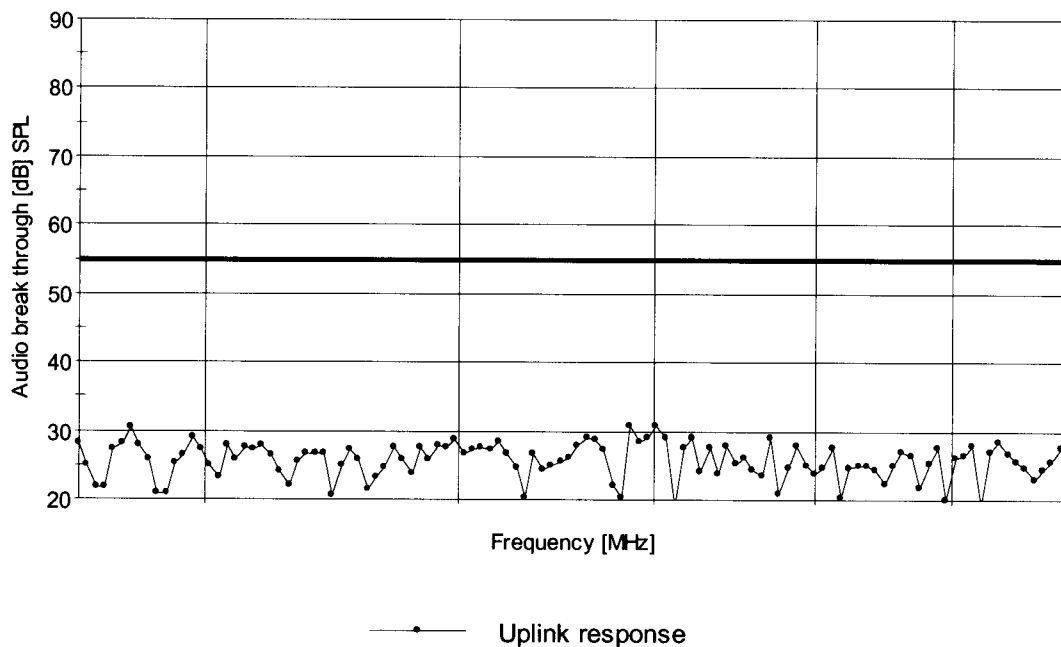
Test Program and Version:  
Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: C:\RF FIELD IMMUNITY  
Version: 2.0.4

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

RF Field Immunity:  
Equipment under Test: Medical Bluetooth Device  
Type No.: NOAHlink  
Operating condition: Receiving and decoding 400Hz signal (80dB SPL)  
Test specification: EN60601-1-2 (1995)

Comments: Front vertical  
1 kHz modulated RF break trough final

1 kHz audio break through, downlink response



Sweep carried out at: 02/Apr/2002 13:51

Sweep Settings:  
Start frequency [MHz]: 26  
Stop frequency [MHz]: 80  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 26 - 80 3V Vertical

Instruments:  
RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

Measuring instruments:

HP 34401A Volt AC (uplink), 20 Log x + 71.4, x 1 + 0

Test Program and Version:  
Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: C:\RF FIELD IMMUNITY  
Version: 2.0.4

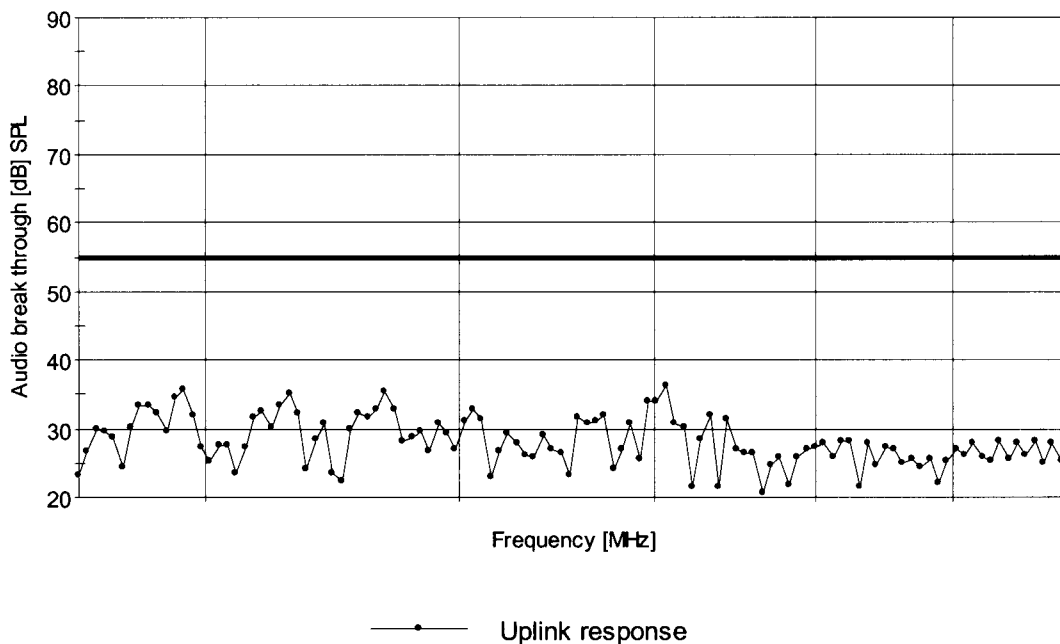
**Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)**

**RF Field Immunity:**

**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995)

**Comments:** Front horizontal (26 –80MHz)  
1 kHz modulated RF break trough final

**1 kHz audio break through, downlink response**



**Sweep carried out at:** 02/Apr/2002 13:58

**Sweep Settings:**

**Start frequency [MHz]:** 26  
**Stop frequency [MHz]:** 80  
**Step frequency [%]:** 1  
**Modulation [% AM]:** 80  
**Modulation frequency [kHz]:** 1  
**Dwell time [sec]:** 1  
**Test Level [V/m]:** 3  
**Calibration files:** Calibration 26 - 80 3V Horizontal

**Instruments:**

**RF Generator:** Marconi 2024  
**Power meter Forward:** R&S Power Refl. Meter NAP Forward  
**Power meter Reflected:** R&S Power Refl. Meter NAP Reflected

**Measuring instruments:**

HP 34401A Volt AC (uplink), 20 Log x + 71.4, x 1 + 0

**Test Program and Version:**

**Title:** RF Field Immunity  
**Program:** RFFIELDIMMUNITY  
**Program Path:** C:\RF FIELD IMMUNITY  
**Version:** 2.0.4

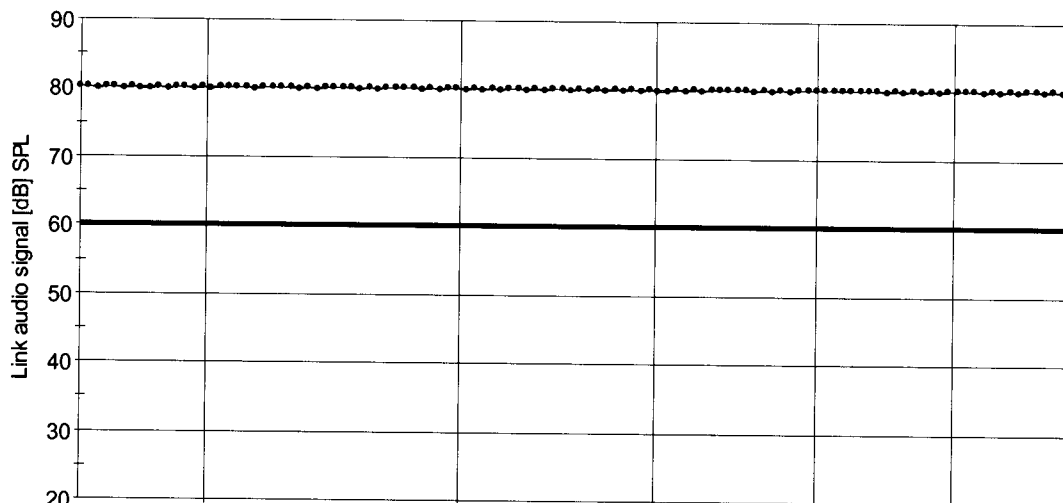
Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

RF Field Immunity:

Equipment under Test: Medical Bluetooth Device  
Type No.: NOAHlink  
Operating condition: Receiving and decoding 400Hz signal (80dB SPL)  
Test specification: EN60601-1-2 (1995)

Comments: Front horizontal (26 –80MHz)  
Link signal

Link signal



Frequency [MHz]

Downlink response

Sweep carried out at: 02/Apr/2002 13:58

Sweep Settings:

Start frequency [MHz]: 26  
Stop frequency [MHz]: 80  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 26 - 80 3V Horizontal

Instruments:

RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

Measuring instruments:

HP 34401A Volt AC (downlink), 20 Log x + 79.3, x 1 + 0

Test Program and Version:

Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: C:\RF FIELD IMMUNITY  
Version: 2.0.4

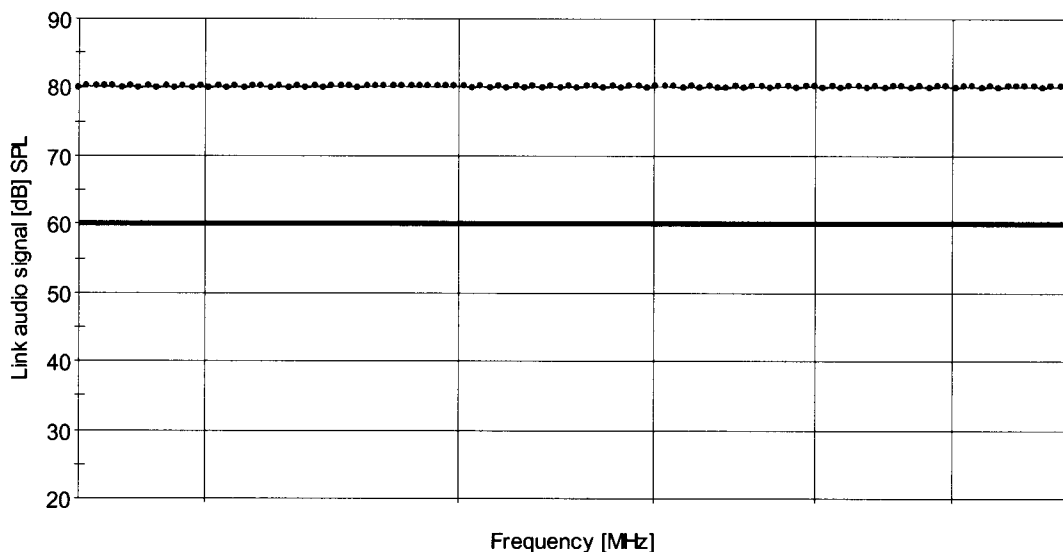
**Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)**

**RF Field Immunity:**

**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995)

**Comments:** Left side horizontal (26 -80MHz)  
Link signal

**Link signal**



—●— Downlink response

**Sweep carried out at:** 02/Apr/2002 14:05

**Sweep Settings:**

**Start frequency [MHz]:** 26  
**Stop frequency [MHz]:** 80  
**Step frequency [%]:** 1  
**Modulation [% AM]:** 80  
**Modulation frequency [kHz]:** 1  
**Dwell time [sec]:** 1  
**Test Level [V/m]:** 3  
**Calibration files:** Calibration 26 - 80 3V Horizontal

**Instruments:**

**RF Generator:** Marconi 2024  
**Power meter Forward:** R&S Power Refl. Meter NAP Forward  
**Power meter Reflected:** R&S Power Refl. Meter NAP Reflected

**Measuring instruments:**

HP 34401A Volt AC (downlink), 20 Log x + 79.3, x 1 + 0

**Test Program and Version:**

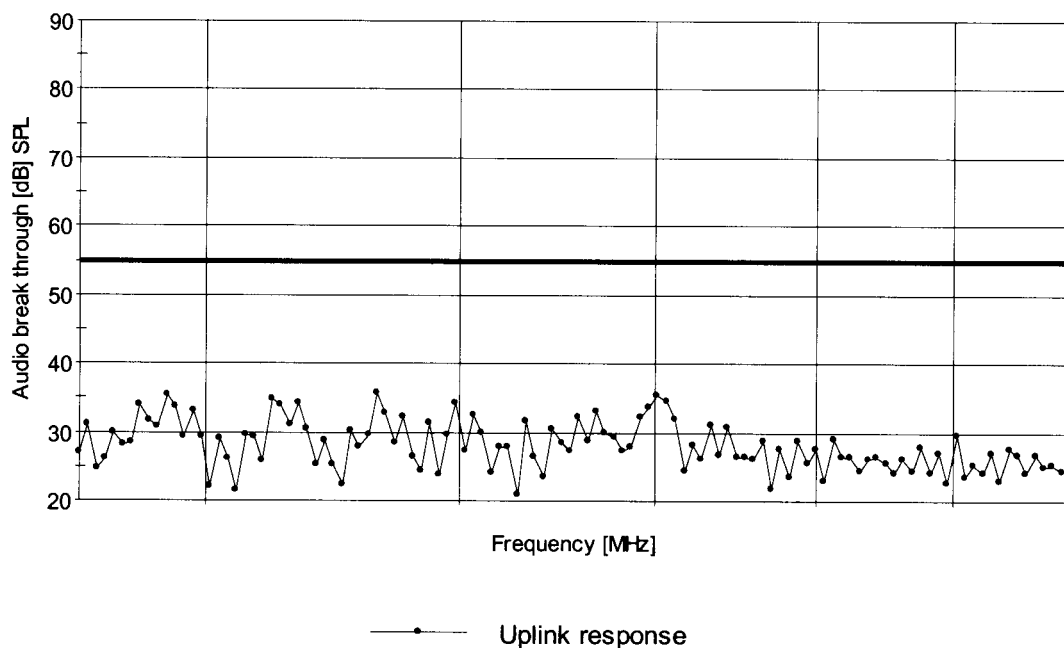
**Title:** RF Field Immunity  
**Program:** RFFIELDIMMUNITY  
**Program Path:** C:\RF FIELD IMMUNITY  
**Version:** 2.0.4

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

**RF Field Immunity:**  
**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995)

**Comments:** Left side horizontal (26 –80MHz)  
1 kHz modulated RF breake trough final

1 kHz audio break through, downlink response



Sweep carried out at: 02/Apr/2002 14:05

**Sweep Settings:**  
**Start frequency [MHz]:** 26  
**Stop frequency [MHz]:** 80  
**Step frequency [%]:** 1  
**Modulation [% AM]:** 80  
**Modulation frequency [kHz]:** 1  
**Dwell time [sec]:** 1  
**Test Level [V/m]:** 3  
**Calibration files:** Calibration 26 - 80 3V Horizontal

**Instruments:**  
**RF Generator:** Marconi 2024  
**Power meter Forward:** R&S Power Refl. Meter NAP Forward  
**Power meter Reflected:** R&S Power Refl. Meter NAP Reflected

**Measuring instruments:**

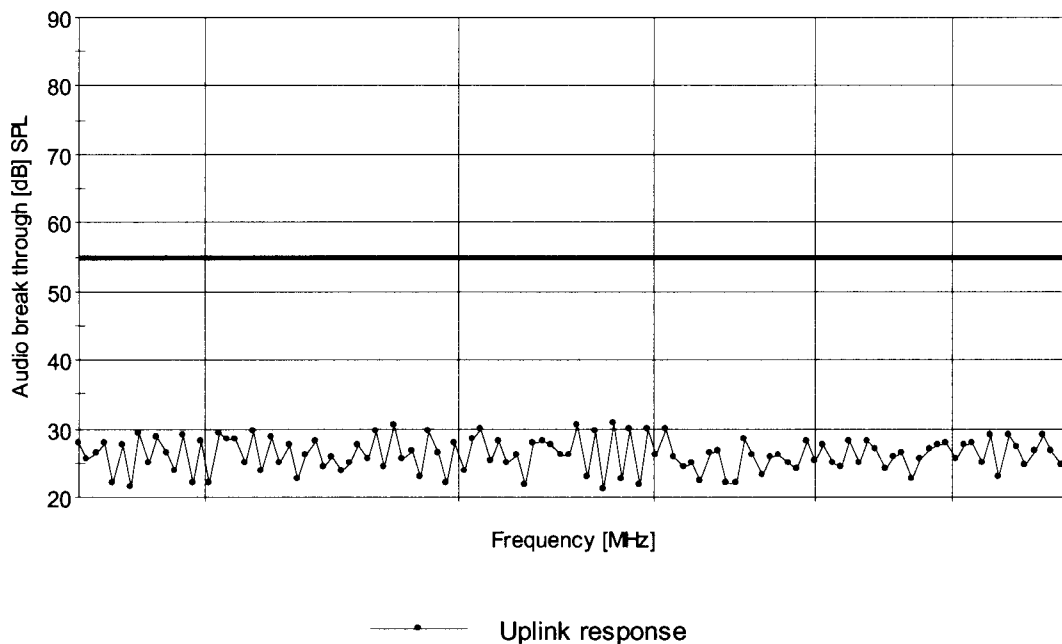
HP 34401A Volt AC (uplink), 20 Log x + 71.4, x 1 + 0

**Test Program and Version:**  
**Title:** RF Field Immunity  
**Program:** RFFIELDIMMUNITY  
**Program Path:** C:\RF FIELD IMMUNITY  
**Version:** 2.0.4

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

**RF Field Immunity:**  
**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995)  
**Comments:** Left side vertical (26 –80MHz)  
1 kHz modulated RF breake trough final

1 kHz audio break through, downlink response



**Sweep carried out at:** 02/Apr/2002 14:13  
**Sweep Settings:**  
**Start frequency [MHz]:** 26  
**Stop frequency [MHz]:** 80  
**Step frequency [%]:** 1  
**Modulation [% AM]:** 80  
**Modulation frequency [kHz]:** 1  
**Dwell time [sec]:** 1  
**Test Level [V/m]:** 3  
**Calibration files:** Calibration 26 - 80 3V Vertical

**Instruments:**  
**RF Generator:** Marconi 2024  
**Power meter Forward:** R&S Power Refl. Meter NAP Forward  
**Power meter Reflected:** R&S Power Refl. Meter NAP Reflected

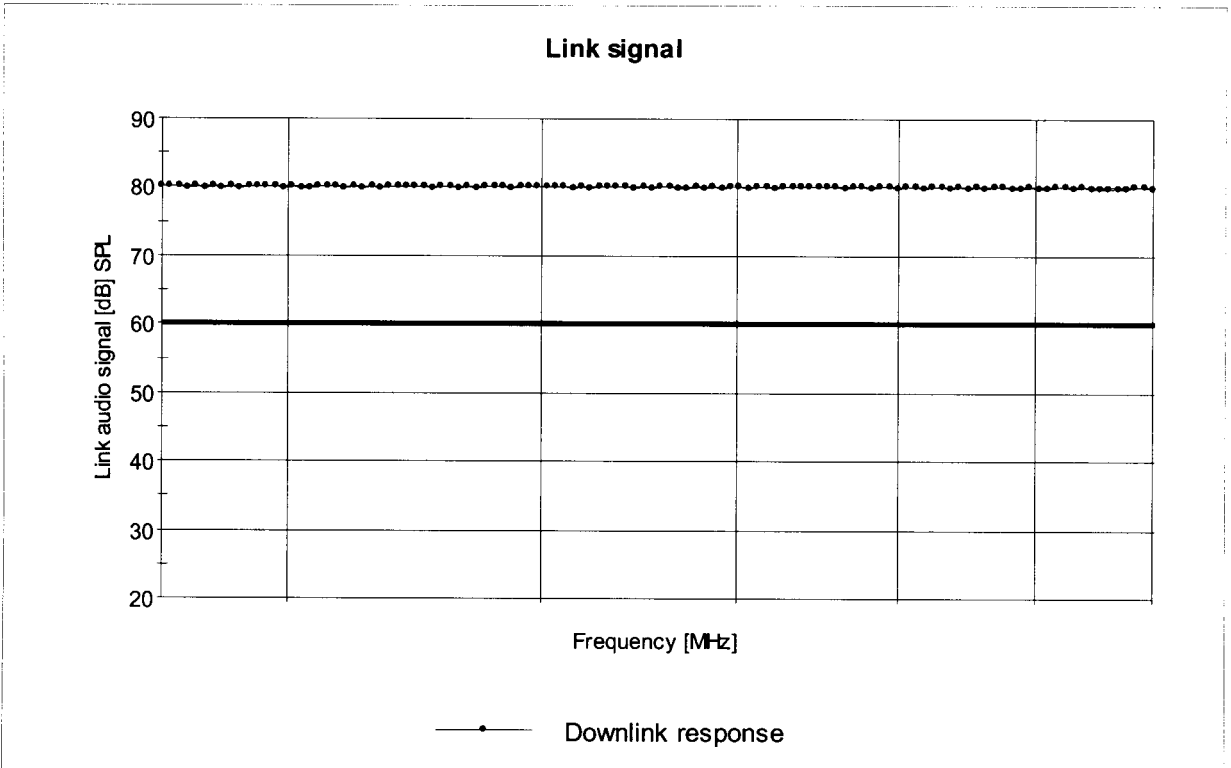
**Measuring instruments:**  
HP 34401A Volt AC (uplink), 20 Log x + 71.4, x 1 + 0

**Test Program and Version:**  
**Title:** RF Field Immunity  
**Program:** RFFIELDIMMUNITY  
**Program Path:** C:\RF FIELD IMMUNITY  
**Version:** 2.0.4



Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

**RF Field Immunity:**  
**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995)  
**Comments:** Left side vertical (26 –80MHz)  
Link signal



Sweep carried out at: 02/Apr/2002 14:13

**Sweep Settings:**  
Start frequency [MHz]: 26  
Stop frequency [MHz]: 80  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 26 - 80 3V Vertical

**Instruments:**  
RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

Measuring instruments:

HP 34401A Volt AC (downlink),  $20 \log x + 79.3, x \geq 1 + 0$

**Test Program and Version:**  
Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: C:\RF FIELD IMMUNITY  
Version: 2.0.4

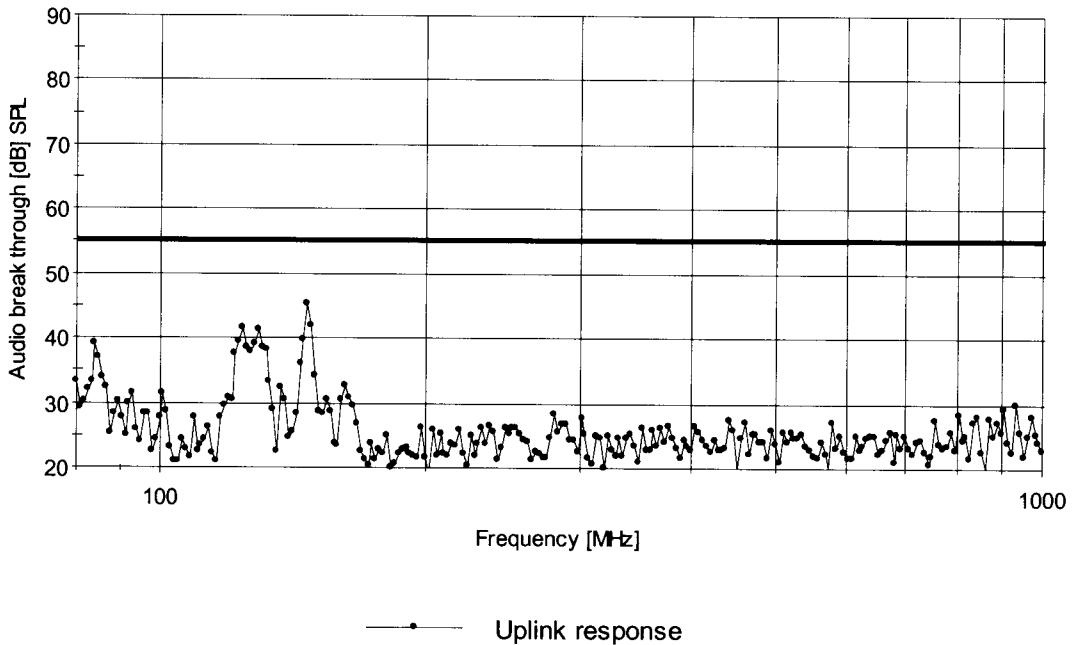
RF Field Immunity:

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

Equipment under Test: Medical Bluetooth Device  
Type No.: NOAHlink  
Operating condition: Receiving and decoding 400Hz signal (80dB SPL)  
Test specification: EN60601-1-2 (1995) and EN 301 489-17

Comments: front horizontal  
1 kHz modulated RF break trough

1 kHz audio break through, downlink response



Sweep carried out at: 21/Mar/2002 16:15

Sweep Settings:  
Start frequency [MHz]: 80  
Stop frequency [MHz]: 1000  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 80-1000 3V Horizontal

Instruments:  
RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

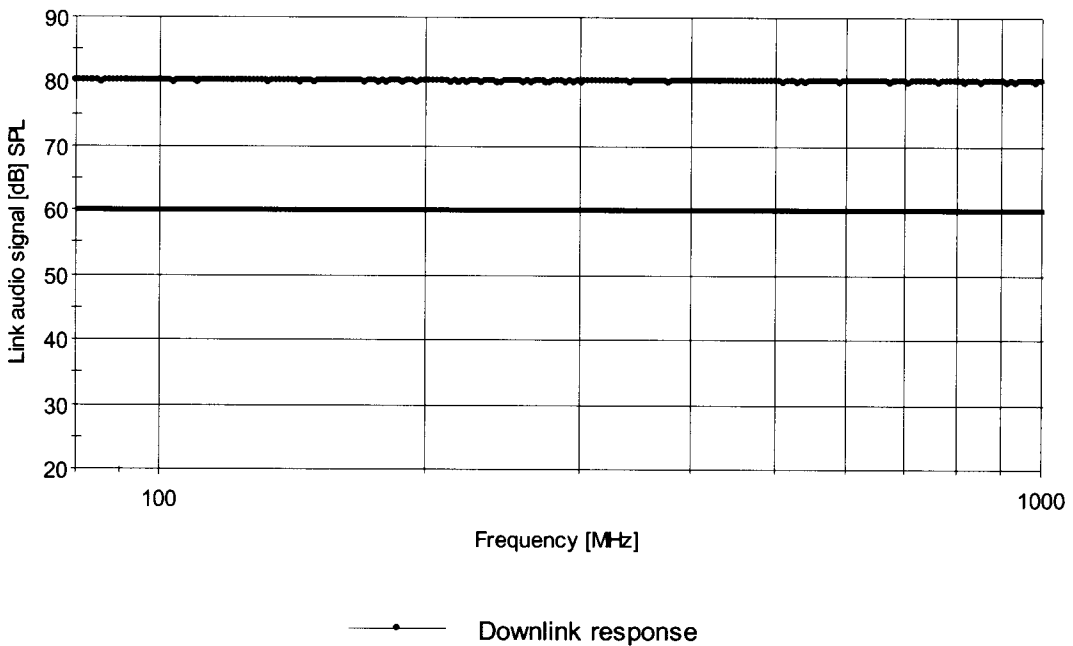
Measuring instruments: HP 34401A Volt AC (uplink), 20 Log x + 66.5, x 1 + 0

Test Program and Version:  
Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: CARF FIELD IMMUNITY  
Version: 2.0.4

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

**RF Field Immunity:**  
**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995) and EN 301 489-17  
**Comments:** front horizontal  
Link signal

Link signal



Sweep carried out at: 21/Mar/2002 16:15

**Sweep Settings:**  
**Start frequency [MHz]:** 80  
**Stop frequency [MHz]:** 1000  
**Step frequency [%]:** 1  
**Modulation [% AM]:** 80  
**Modulation frequency [kHz]:** 1  
**Dwell time [sec]:** 1  
**Test Level [V/m]:** 3  
**Calibration files:** Calibration 80-1000 3V Horizontal

**Instruments:**  
**RF Generator:** Marconi 2024  
**Power meter Forward:** R&S Power Refl. Meter NAP Forward  
**Power meter Reflected:** R&S Power Refl. Meter NAP Reflected

**Measuring instruments:**

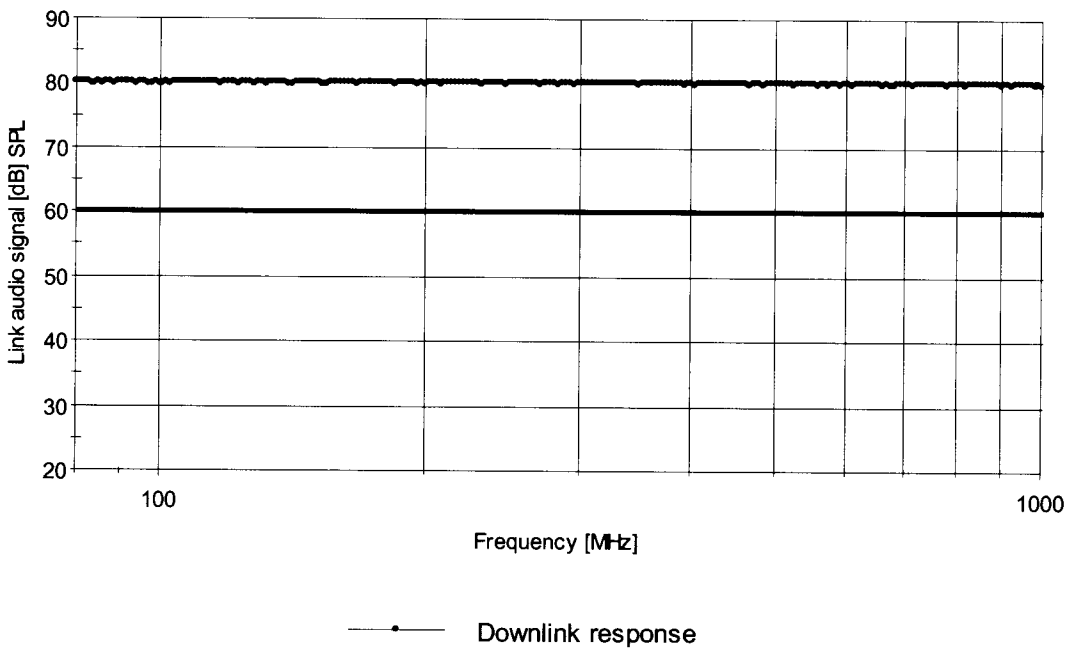
**Test Program and Version:** HP 34401A Volt AC (downlink), 20 Log x + 76, x 1 + 0  
**Title:** RF Field Immunity  
**Program:** RFFIELDIMMUNITY  
**Program Path:** C:\RF FIELD IMMUNITY  
**Version:** 2.0.4

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

**RF Field Immunity:**  
**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995) and EN 301 489-17

**Comments:** left horizontal  
Link signal

Link signal



Sweep carried out at: 21/Mar/2002 16:30

**Sweep Settings:**  
**Start frequency [MHz]:** 80  
**Stop frequency [MHz]:** 1000  
**Step frequency [%]:** 1  
**Modulation [% AM]:** 80  
**Modulation frequency [kHz]:** 1  
**Dwell time [sec]:** 1  
**Test Level [V/m]:** 3  
**Calibration files:** Calibration 80-1000 3V Horizontal

**Instruments:**  
**RF Generator:** Marconi 2024  
**Power meter Forward:** R&S Power Refl. Meter NAP Forward  
**Power meter Reflected:** R&S Power Refl. Meter NAP Reflected

**Measuring instruments:**

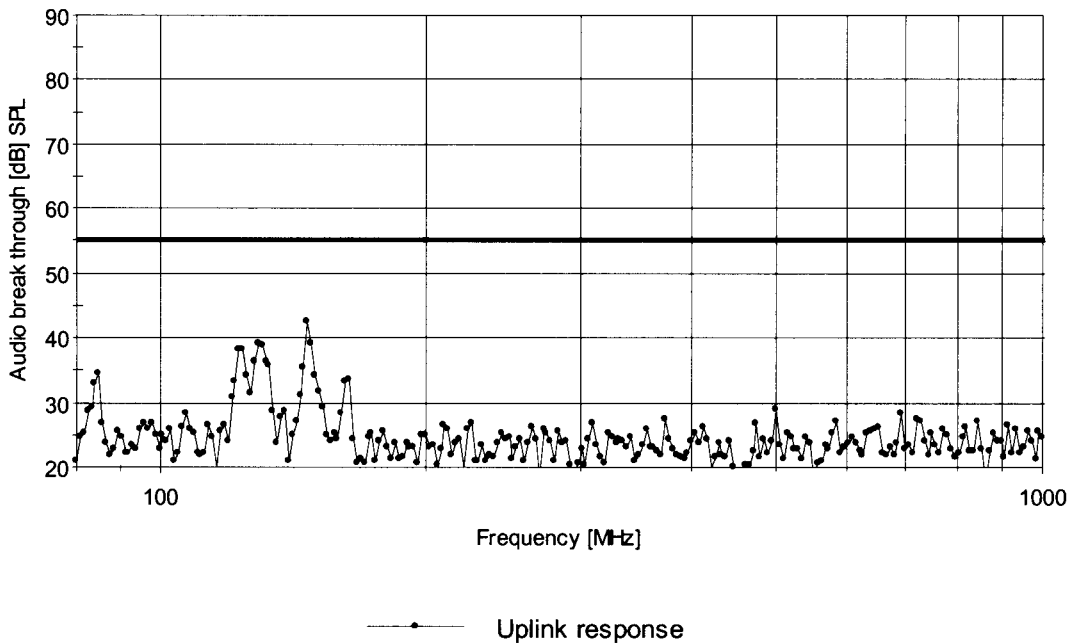
HP 34401A Volt AC (downlink), 20 Log x + 76, x 1 + 0

**Test Program and Version:**  
**Title:** RF Field Immunity  
**Program:** RFFIELDIMMUNITY  
**Program Path:** C:\RF FIELD IMMUNITY  
**Version:** 2.0.4

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

**RF Field Immunity:**  
**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995) and EN 301 489-17  
**Comments:** left horizontal  
1 kHz modulated RF breake trough

1 kHz audio break through, downlink response



**Sweep carried out at:** 21/Mar/2002 16:30  
**Sweep Settings:**  
Start frequency [MHz]: 80  
Stop frequency [MHz]: 1000  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 80-1000 3V Horizontal

**Instruments:**  
RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

**Measuring instruments:**

HP 34401A Volt AC (uplink), 20 Log x + 66.5, x 1 + 0

**Test Program and Version:**  
Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: C:\RF FIELD IMMUNITY  
Version: 2.0.4

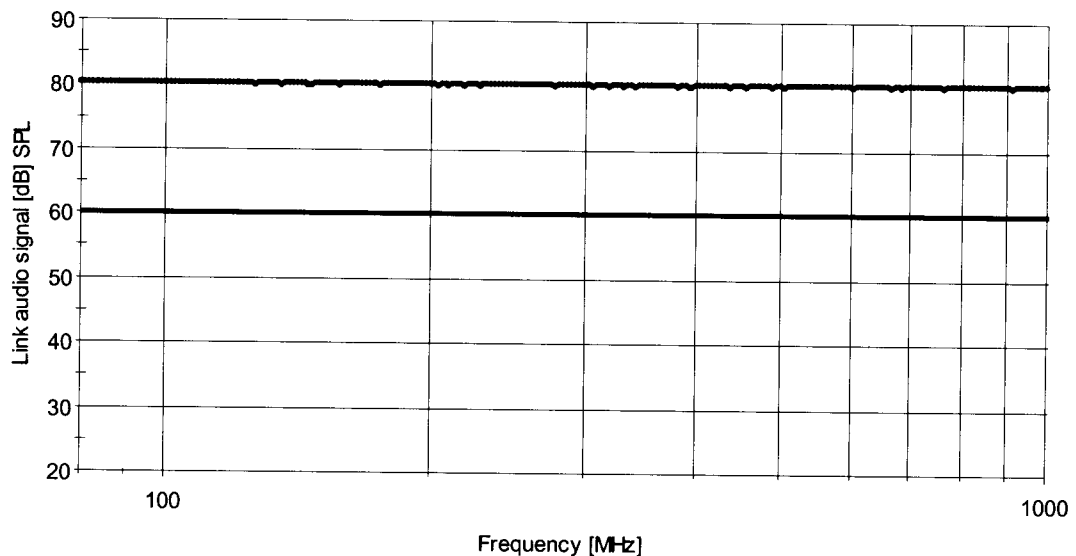
Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

RF Field Immunity:

Equipment under Test: Medical Bluetooth Device  
Type No.: NOAHlink  
Operating condition: Receiving and decoding 400Hz signal (80dB SPL)  
Test specification: EN60601-1-2 (1995) and EN 301 489-17

Comments: left vertical  
Link signal

Link signal



—•— Downlink response

Sweep carried out at: 21/Mar/2002 16:45

Sweep Settings:

Start frequency [MHz]: 80  
Stop frequency [MHz]: 1000  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 80-1000 3V Vertical

Instruments:

RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

Measuring instruments:

HP 34401A Volt AC (downlink), 20 Log x + 76, x 1 + 0

Test Program and Version:

Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: CARF FIELD IMMUNITY  
Version: 2.0.4

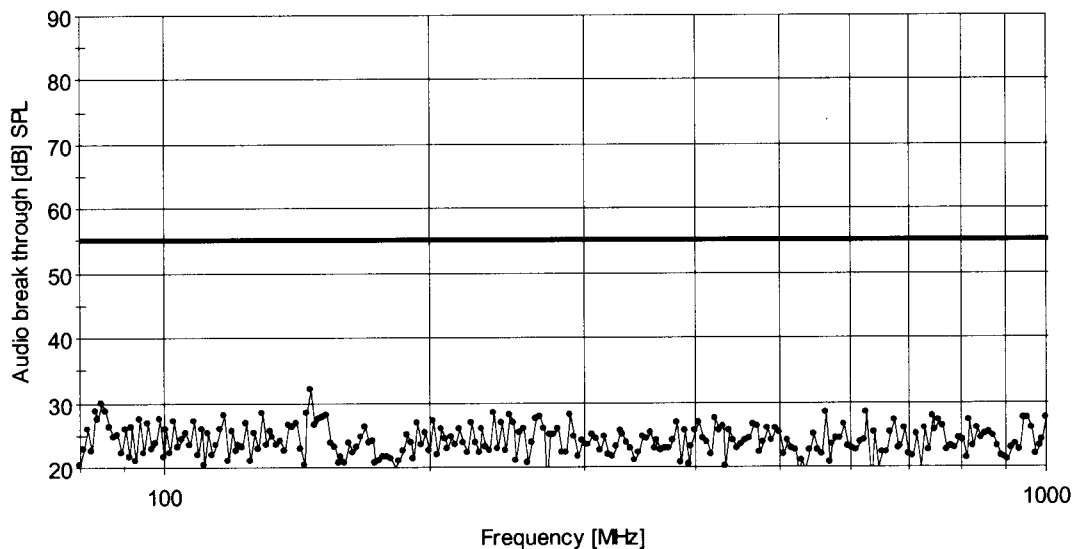
Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

RF Field Immunity:

Equipment under Test: Medical Bluetooth Device  
Type No.: NOAHlink  
Operating condition: Receiving and decoding 400Hz signal (80dB SPL)  
Test specification: EN60601-1-2 (1995) and EN 301 489-17

Comments: left vertical  
1 kHz modulated RF break trough

1 kHz audio break through, downlink response



—•— Uplink response

Sweep carried out at: 21/Mar/2002 16:45

Sweep Settings:

Start frequency [MHz]: 80  
Stop frequency [MHz]: 1000  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 80-1000 3V Vertical

Instruments:

RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

Measuring instruments:

HP 34401A Volt AC (uplink), 20 Log x + 66.5, x 1 + 0

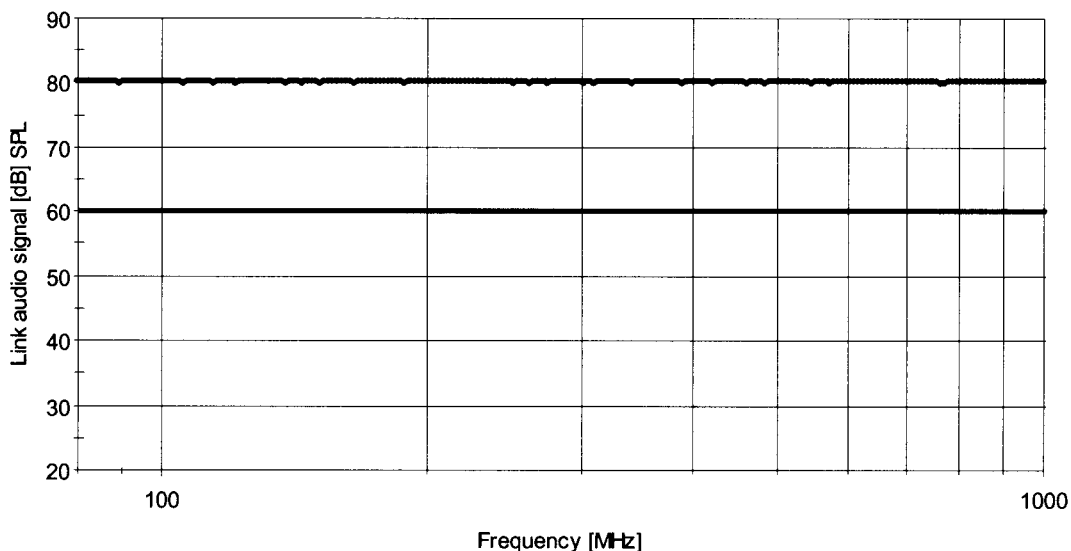
Test Program and Version:

Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: C:\RF FIELD IMMUNITY  
Version: 2.0.4

Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

**RF Field Immunity:**  
**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995) and EN 301 489-17  
**Comments:** Front vertical  
Link signal

Link signal



**Sweep carried out at:** 21/Mar/2002 16:54

**Sweep Settings:**  
**Start frequency [MHz]:** 80  
**Stop frequency [MHz]:** 1000  
**Step frequency [%]:** 1  
**Modulation [% AM]:** 80  
**Modulation frequency [kHz]:** 1  
**Dwell time [sec]:** 1  
**Test Level [V/m]:** 3  
**Calibration files:** Calibration 80-1000 3V Vertical

**Instruments:**  
**RF Generator:** Marconi 2024  
**Power meter Forward:** R&S Power Refl. Meter NAP Forward  
**Power meter Reflected:** R&S Power Refl. Meter NAP Reflected

**Measuring instruments:**

HP 34401A Volt AC (downlink), 20 Log x + 76, x 1 + 0

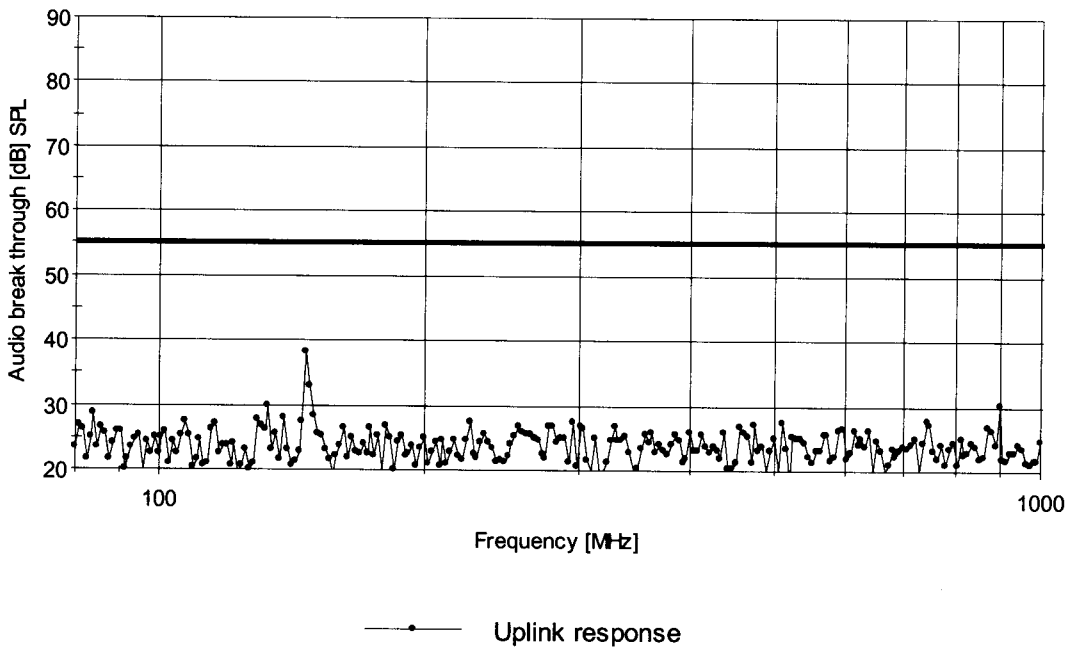
**Test Program and Version:**  
**Title:** RF Field Immunity  
**Program:** RFFIELDIMMUNITY  
**Program Path:** C:\RF FIELD IMMUNITY  
**Version:** 2.0.4



Title: Test on GN Otometrics NoahLink, to EN 60 601-1-2 (1995) and EN 301 489-17 (2000)

**RF Field Immunity:**  
**Equipment under Test:** Medical Bluetooth Device  
**Type No.:** NOAHlink  
**Operating condition:** Receiving and decoding 400Hz signal (80dB SPL)  
**Test specification:** EN60601-1-2 (1995) and EN 301 489-17  
**Comments:** Front vertical  
1 kHz modulated RF break trough

1 kHz audio break through, downlink response



**Sweep carried out at:** 21/Mar/2002 16:54  
**Sweep Settings:**  
Start frequency [MHz]: 80  
Stop frequency [MHz]: 1000  
Step frequency [%]: 1  
Modulation [% AM]: 80  
Modulation frequency [kHz]: 1  
Dwell time [sec]: 1  
Test Level [V/m]: 3  
Calibration files: Calibration 80-1000 3V Vertical

**Instruments:**  
RF Generator: Marconi 2024  
Power meter Forward: R&S Power Refl. Meter NAP Forward  
Power meter Reflected: R&S Power Refl. Meter NAP Reflected

**Measuring instruments:**

**Test Program and Version:** HP 34401A Volt AC (uplink), 20 Log x + 66.5, x 1 + 0  
Title: RF Field Immunity  
Program: RFFIELDIMMUNITY  
Program Path: CARF FIELD IMMUNITY  
Version: 2.0.4