



EUROFINS PRODUCT SERVICE GMBH



Testing Cert #1983.01

# TEST - REPORT

**FCC RULES PART 15 / SUBPART B  
IC RSS-GEN ISSUE 2**

**FCC ID: T5V02HDDUALNM  
IC: 6455A-02HDDUALNM**

**DECT6.0 microphone system**

**Single/Dual HD Channel Systems (Topaz)  
04-HDSGLEU-NM  
04-HDDUALEU-NM**

**Test report no.: G0M20909-2538-C-2\_rev01**



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# 1 General Information

## 1.1 Notes

The purpose of conformity testing is to increase the probability of adherence to the essential requirements or conformity specifications, as appropriate.

The tests were carried out and passed in accordance to the standards:

**FCC part 15B : July 2008**

**IC RSS-Gen Issue 2**

The results of this test report relate exclusively to the item tested as specified in chapter "Description of test item" and are not transferable to any other test items.

Eurofins Product Service GmbH is not responsible for any generalisations and conclusions drawn from this report. Any modification of the test item can lead to invalidity of test results and this test report may therefore be not applicable to the modified test item.

The test report may only be reproduced or published in full. Reproducing or publishing extracts of the report requires the prior written approval of the Eurofins Product Service GmbH.

This document is subject to the General Terms and Conditions and the Testing and Certification System of Eurofins Product Service GmbH, available on request or accessible at [www.pt.eurofins.com](http://www.pt.eurofins.com).

**Important Notes:**

Proper labeling is required for each device. Devices shall be labeled in accordance with labeling requirements pursuant to section 15.19 and section 2.1074 of the FCC rules.

Devices subject to a Declaration of Conformity shall be uniquely identified by the responsible party.

This identification shall not be of a format which could be confused with the FCC Identifier required on certified, notified type accepted or type approved equipment.

The responsible party shall maintain adequate identification records to facilitate positive identification for each device.

The user manual or instruction manual shall include also a warning statement that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Reference Section 15.21**

Furthermore information to the user regarding to the interference potential of the device and about simple measures that can be taken to correct interference is required.

**Reference Section 15.105**

The responsible party must warrant that each unit of equipment marketed under a Declaration of Conformity is identical to the unit tested and found acceptable with the standards and that the records maintained by the responsible party continue to reflect the equipment being produced under the Declaration of Conformity within the variation that can be expected due to quantity production and testing on a statistical basis.

**1.2 Operator:**

19.07.2010

J. Marquardt



Date

Eurofins -Lab.

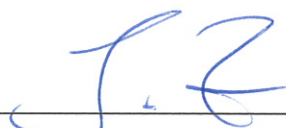
Name

Signature

Technical responsibility for area of testing:

19.07.2010

J. Zimmermann



Date

Eurofins

Name

Signature

## 1.3 Testing laboratory

### 1.3.1 Location

EUROFINS PRODUCT SERVICE GMBH  
STORKOWER STR. 38c  
D- 15526 REICHENWALDE B. BERLIN  
GERMANY  
Telephone: + 49 33631 888-00  
Telefax: + 49 33631 888-660

### 1.3.2 Details of accreditation status

**DAR ACCREDITED TESTING LABORATORY**  
DAR-REGISTRATION NUMBER: DAT-P-268/08

**RECOGNIZED NOTIFIED BODY EMC**  
REGISTRATION NUMBER: BNetzA-bS EMV-07/61

**RECOGNIZED NOTIFIED BODY R&TTE**  
REGISTRATION NUMBER: BNetzA-bS-02/51-53

**FCC FILED TEST LABORATORY**  
REG.-No. 96970

**A2LA ACCREDITED TESTING LABORATORY**  
CERTIFICATE No. 1983.01

**BLUETOOTH QUALIFICATION TEST FACILITY (BQTF)**  
ACCREDITED BY BLUETOOTH QUALIFICATION REVIEW BOARD

**INDUSTRY CANADA FILED TEST LABORATORY**  
REG. No. IC 3470A

### 1.3.3 Test location, where different

|           |       |
|-----------|-------|
| Name      | : ./. |
| Street    | : ./. |
| Town      | : ./. |
| Country   | : ./. |
| Telephone | : ./. |
| Fax       | : ./. |

## 1.4 Details of applicant

|           |                    |
|-----------|--------------------|
| Name      | : Revolabs, Inc.   |
| Street    | : 63 Great Road    |
| Town      | : MA 01754 Maynard |
| Country   | : USA              |
| Telephone | : +1 978 450 5400  |
| Contact   | : Mr. Paul Jones   |
| Telephone | : +1 978 450 5400  |

## 1.5 Application details

|                                |                           |
|--------------------------------|---------------------------|
| Date of receipt of application | : 14.09.2009              |
| Date of receipt of test item   | : 14.09.2009              |
| Date of test                   | : 21.09.2009 - 24.09.2009 |

## 1.6 Test item

### 1.6.1 Description of test item

|                        |                                                                             |
|------------------------|-----------------------------------------------------------------------------|
| Type of product        | : DECT6.0 microphone system                                                 |
| Type identification    | : Single/Dual HD Channel Systems (Topaz)<br>04-HDSGLEU-NM<br>04-HDDUALEU-NM |
| Serial umber           | : without                                                                   |
| Photos                 | : Please find in Annex.                                                     |
| Power supply           | : 120VAC ITE Power Supply GT-41076-0605 GlobTek®, Inc.                      |
| Additional information | : ./.                                                                       |

### 1.6.2 Manufacturer (if different from applicant in point 1.4)

Name : Revolabs, Inc.  
Street : 63 Great Road  
Town : MA 01754 Maynard  
Country : USA

### 1.6.3 Frequency behavior

|                         |           |
|-------------------------|-----------|
| Highest clock Frequency | < 200 MHz |
|-------------------------|-----------|

### 1.7 Test standards

FCC part 15B : July 2008  
IC RSS-Gen Issue 2 : June 2007

## 2 Technical test

### 2.1 Summary of test results

No deviations from the technical specification(s) were ascertained in the course of the tests performed. ☒

or

The deviations as specified in 2.3 were ascertained in the course of the tests performed. ☐

### 2.2 Test environment

|                           |            |                                               |
|---------------------------|------------|-----------------------------------------------|
| Temperature               | : 22 °C    |                                               |
| Relative humidity content | : 43 %     |                                               |
| Air pressure              | : 1007 hPa |                                               |
| Details of power supply   | : 120VAC   | ITE Power Supply GT-41076-0605 GlobTek®, Inc. |
| Other parameters          | : ./.      |                                               |

## 2.3 Test results

☒ 1<sup>st</sup> test
 ☐ test after modification
 ☐ production test

| Test<br>Emission / Immunity |                 |               | Done                                | Test<br>passed                      | Test<br>failed           |
|-----------------------------|-----------------|---------------|-------------------------------------|-------------------------------------|--------------------------|
| Conducted Emission          | FCC part 15.107 | RSS-Gen 7.2.2 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| Radiated Emission           | FCC part 15.109 | RSS-Gen 7.2.3 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

## 2.4 Test equipment utilized

| No.      | Test Equipmen               | Type           | Manufacturer          |
|----------|-----------------------------|----------------|-----------------------|
| ETS 0001 | ESD Gun                     | SESD 30000     | Schlöder              |
| ETS 0008 | Antenna                     | Loop antenna   | Siemens               |
| ETS 0012 | Biconical Antenna           | HK 116         | R & S                 |
| ETS 0013 | LPD Antenna                 | HL 223         | R & S                 |
| ETS 0014 | Log Periodical Antenna      | HL 025         | R & S                 |
| ETS 0038 | RF amplifier                | 150L           | Amplifier Research    |
| ETS 0032 | Controller                  | HD 050         | Heinrich Deisel       |
| ETS 0039 | Absorbing clamp             | MDS 21         | R & S                 |
| ETS 0040 | Artificial Mains Network    | ESH3-Z5        | R & S                 |
| ETS 0041 | T-Artificial Mains Network  | ESH3-Z4        | R & S                 |
| ETS 0042 | Artificial Mains            | ESH3-Z6        | R & S                 |
| ETS 0045 | Vehicle LISN                | NNBM 8126D     | Schwarzbeck           |
| ETS 0052 | Audio analyzer              | UPA 4          | R & S                 |
| ETS 0056 | Ultra Compact Simulator     | UCS 500 M4     | EM Test               |
| ETS 0057 | Motor Variac                | MV 2616        | EM Test               |
| ETS 0058 | Capacitive coupling clamp   | E 502 B        | Keytek/ EMC           |
| ETS 0059 | Kikusui amplifier           | PCR 2000L      | Keytek/ EMC           |
| ETS 0064 | CDN IEC 61000-4-6           |                | Keytek/ EMC           |
| ETS 0066 | EM Injection Clamp          |                | FCC/ EMC              |
| ETS 0076 | Feeding bridge A            | SBA 1000       | ESP                   |
| ETS 0082 | PC system                   |                | Esotronic             |
| ETS 0085 | Shielded room               | SR 1           | Frankonia             |
| ETS 0086 | Semi-Anechoic chamber       | AC 1           | Frankonia             |
| ETS 0088 | Color TV pattern Generator  | PM 5518-TX VPS | Philips               |
| ETS 0092 | Power Amplifier             | 150W1000       | AR Amplifier Research |
| ETS 0102 | CDN                         | M3-801/6       | MEB                   |
| ETS 0103 | Magnetic field test set     | MF1000         | EMC-Partner           |
| ETS 0148 | RF Current Probe            | F-65           | FCC                   |
| ETS 0155 | Signal Generator            | SMG            | R & S                 |
| ETS 0157 | TV and Sat-Signalgenerator  | VTG 700        | Grundig               |
| ETS 0161 | Harmonic / Flicker Analyzer | HFA 3000       | Schlöder              |
| ETS 0178 | Open area test side         | 10m            | ETS                   |
| ETS 0233 | Direction coupler           | RK 100         | MEB                   |
| ETS 0276 | Audio Analyzer              | UPL 16         | R & S                 |
| ETS 0282 | RF bridge 75 Ohm            | 86207 A        | HP                    |
| ETS 0287 | EMI Test receiver           | ESHS10         | R & S                 |
| ETS 0288 | Artificial mains            | ESH2-Z5        | R & S                 |
| ETS 0292 | RF Generator                | SMHU           | R & S                 |
| ETS 0348 | RF Millivolt meter          | URV 55         | R & S                 |
| ETS 0300 | RF amplifier                | 75 A 250       | Ar                    |
| ETS 0348 | RF Millivolt meter          | URV 55         | R & S                 |
| ETS 0401 | MPEG2 Generator             | DVG            | R & S                 |
| ETS 0402 | TV Messenger                | SFQ            | R & S                 |
| ETS 0409 | Stripline                   | DC220          | Schwarzbeck           |
| ETS 0428 | 4-WIRE ISN with B1          | ENY41          | R & S                 |
| ETS 0448 | RF Power Amplifier          | AR 60S1G3      | AR Amplifier Research |
| ETS 0472 | Antenna                     | BTA-H          | Frankonia             |
| ETS 0474 | EMI Test Receiver           | ESCS 30        | R&S                   |
| ETS 0485 | Radio Communication Tester  | CMU 200        | R&S                   |

## 2.4.1 Conducted Emission

### 2.4.1.1 Test Equipment

- ETS 0040
- ETS 0085
- ETS 0474
- Software: ES-K1, Vers. 1.6SP2

### 2.4.1.2 Test Procedures

- Test configuration

The test configuration is contained inside of a shielded chamber and corresponds to the standard ANSI C.63.4: 2003. The equipment under test is placed in the facility on a wooden table 0.8m high. The equipment under test is connected with the artificial mains network (AMN) in a distance of 0,8m and also 0,8m from other subassembly and metallic area. The measurement receiver is placed in a special room adjacent to the chamber. The observation of the equipment under test is realized by 3 video cameras and by a microphone.

- Test parameters and marginal conditions

The tests are carried out with nominal impedance by  $50\ \Omega$  /  $50\ \mu\text{H}$  of the AMN in a frequency range 150 kHz to 30 MHz. This measurement was transacted first with instrumentation using an average and peak detector and a 10 kHz bandwidth. If the peak detector achieves a calculated level, the measurement is repeated by an instrumentation using a quasi-peak detector, Further information please find in test report.

## 2.4.2 Spurious Emission

### 2.4.2.1 Test Equipment

- ETS 0012
- ETS 0013
- ETS 0086
- ETS 0474
- Software: ES-K1, Vers. 1.6SP2

### 2.4.2.2 Test Procedures

- Test configuration

The test configuration corresponds to the standard ANSI C 63.4: 2003. The equipment under test is placed on a non metallic table with 0,8 m height. The power supply and the RF connection points are close to the equipment under test at the floor inside a connection box. The cables to this connection box are shielded and below the double floor. The receiving antenna is placed in a height at 1,0 to 4,0 m, in a distance of 3 m. The measurement receiver is placed in a special room. The observation of the equipment under test is realized by 3 video cameras and by a microphone.

- Test parameters and marginal conditions

The test are carried out with horizontal and vertical polarization of the antenna in a frequency range of 30 MHz to 5 000 MHz. Further information please find in the test protocol.

## 2.5 Test protocols

### Conducted Emission

# Emission

Standard : FCC part 15.107; RSS-Gen 7.2.2

Reg.-no. : G0M20909-2538-C-2\_rev01

Device : DECT6.0 microphone system

Date : 28.09.2009

Class : B

| Frequency Range      | Limit<br>dB $\mu$ V |           | Passed                              | Failed                   | Number of<br>rechecks |
|----------------------|---------------------|-----------|-------------------------------------|--------------------------|-----------------------|
|                      | Quasi-peak          | Average   |                                     |                          |                       |
| 150 kHz - 500 kHz AC | 66 to 56*           | 56 to 46* | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0                     |
| 500 kHz - 5 MHz AC   | 56                  | 46        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0                     |
| 5 MHz - 30 MHz AC    | 60                  | 50        | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0                     |

\* Decreases with logarithm of the frequency

Uncertainty:  $U_{\text{lab(cond)}} = 3.8 \text{ dB}$ .

Comment: See attached diagrams in Annex..

## Radio Noise Field Strength

# Emission

Standard : FCC part 15.109; RSS-Gen 7.2.3

Req.-no. : G0M20909-2538-C-2\_rev01

Device : DECT6.0 microphone system

Date : 28.09.2009

Class : B

| Frequency Range Polarization | Limit<br>$\mu\text{V/m}$ | Passed                              | Failed                   | Number of<br>rechecks |
|------------------------------|--------------------------|-------------------------------------|--------------------------|-----------------------|
| 30 MHz - 88 MHz              | 90                       | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0                     |
| 88 MHz - 216 MHz             | 150                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0                     |
| 216 MHz - 960 MHz            | 210                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0                     |
| 960 MHz - 1000 MHz           | 300                      | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 0                     |

Uncertainty:  $U_{\text{lab(rad)}} = 5.3 \text{ dB}$

Comment: Above 1 GHz no relevant disturbances.  
See attached diagrams in Annex.

## 2.6 Equipment Modification

No modifications were installed by Eurofins Product Service GmbH.

### 3 Normative references

- /1/ FCC part 15: July 2008  
Radio Frequency Devices
- /2/ CISPR 22: 2006  
Limits and Methods of Measurement of Radio Interference Characteristics of Information Technology Equipment
- /3/ ANSI C 63.4: 2003  
American National Standard for Methods of Measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
- /4/ IC RSS-Gen Issue 2 June 2007  
General Requirements and Information for the Certification of Radio communication Equipment

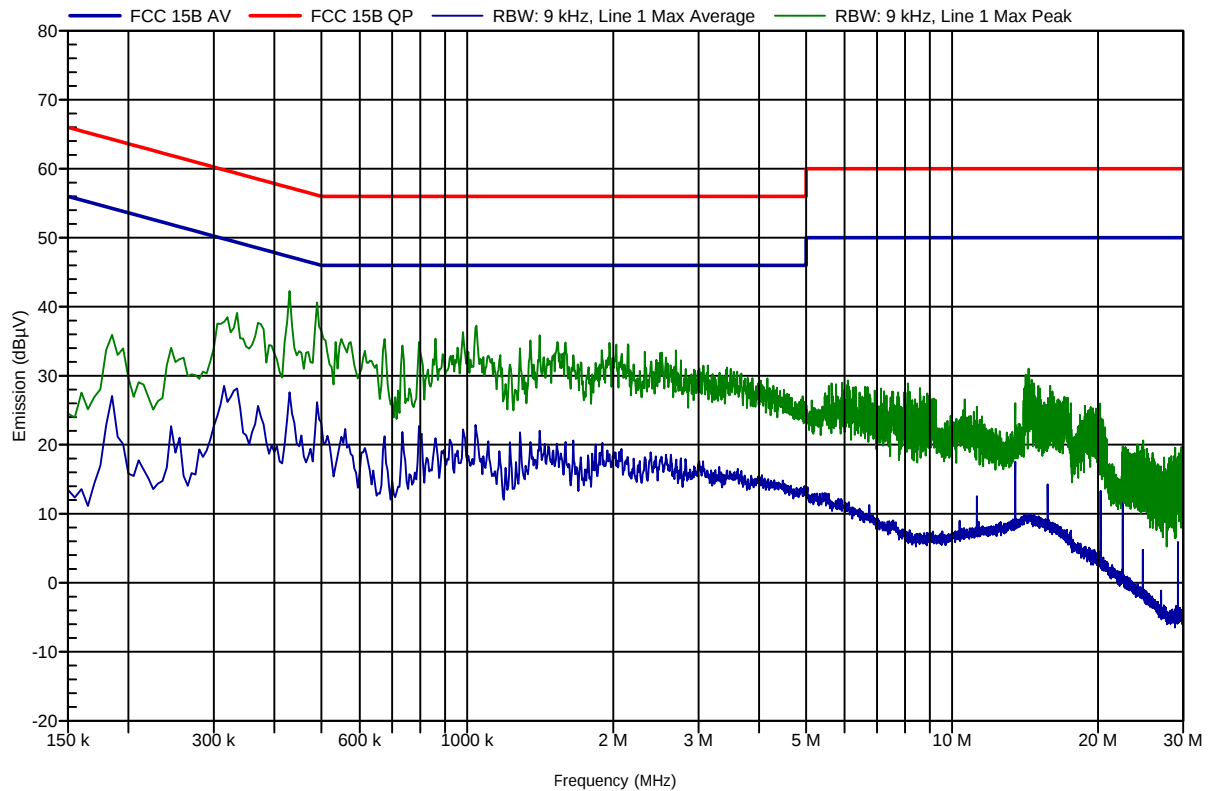
## **Annex B**

### Diagrams

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

Ordernumber: G0M20909-2538

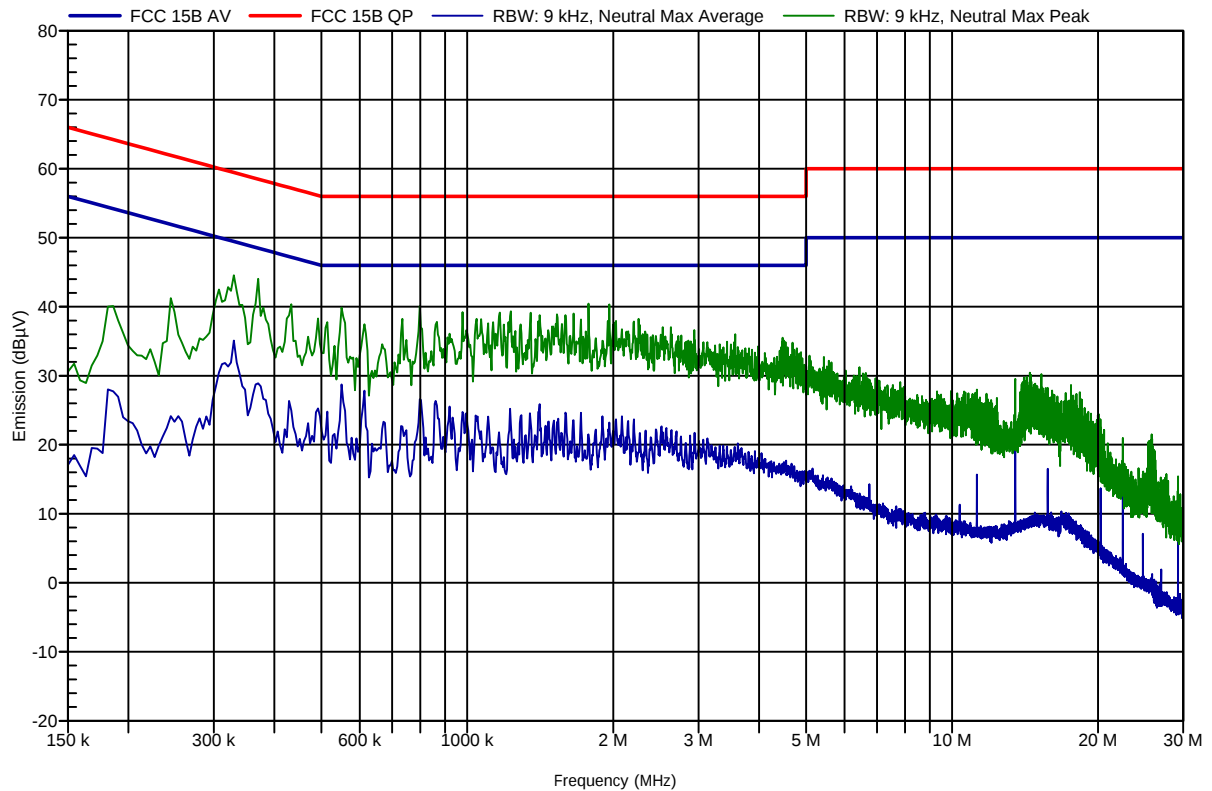
|                  |                                           |
|------------------|-------------------------------------------|
| Manufacturer:    | Revolabs Inc.                             |
| EUT Name:        | DECT6.0 microphone system                 |
| Model:           | Topaz                                     |
| Test Site:       | Eurofins Product Service GmbH             |
| Operator:        | Mr. Marquardt                             |
| Test Conditions: | Tnom: 23°C, Unom: 120 VAC (AC/DC adaptor) |
| LISN:            | ESH2-Z5 (L)                               |
| Mode:            | DECT link                                 |
| Test Date:       | 24.09.2009                                |



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

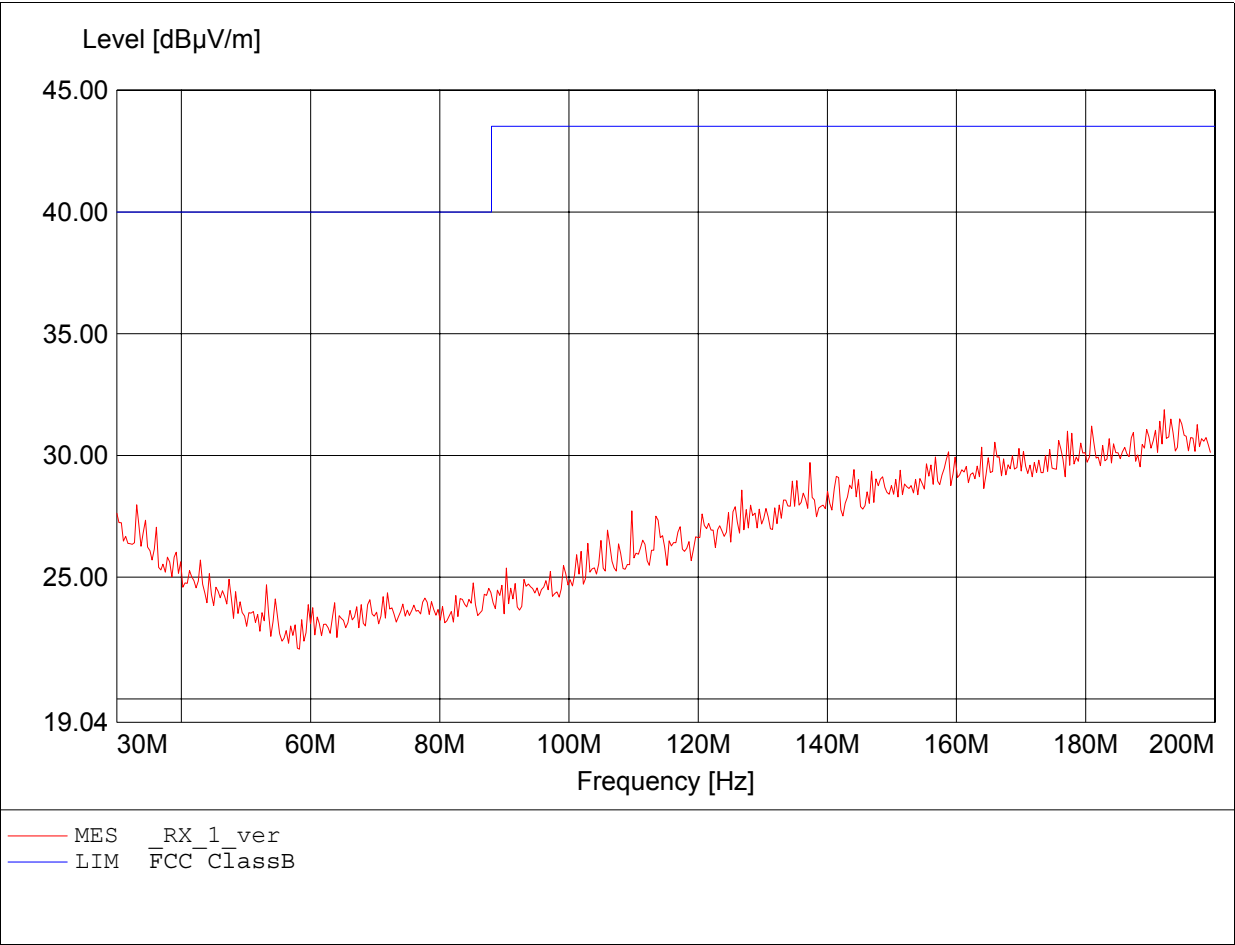
Ordernumber: G0M20909-2538

|                  |                                           |
|------------------|-------------------------------------------|
| Manufacturer:    | Revolabs Inc.                             |
| EUT Name:        | DECT6.0 microphone system                 |
| Model:           | Topaz                                     |
| Test Site:       | Eurofins Product Service GmbH             |
| Operator:        | Mr. Marquardt                             |
| Test Conditions: | Tnom: 23°C, Unom: 120 VAC (AC/DC adaptor) |
| LISN:            | ESH2-Z5 (N)                               |
| Mode:            | DECT link                                 |
| Test Date:       | 24.09.2009                                |



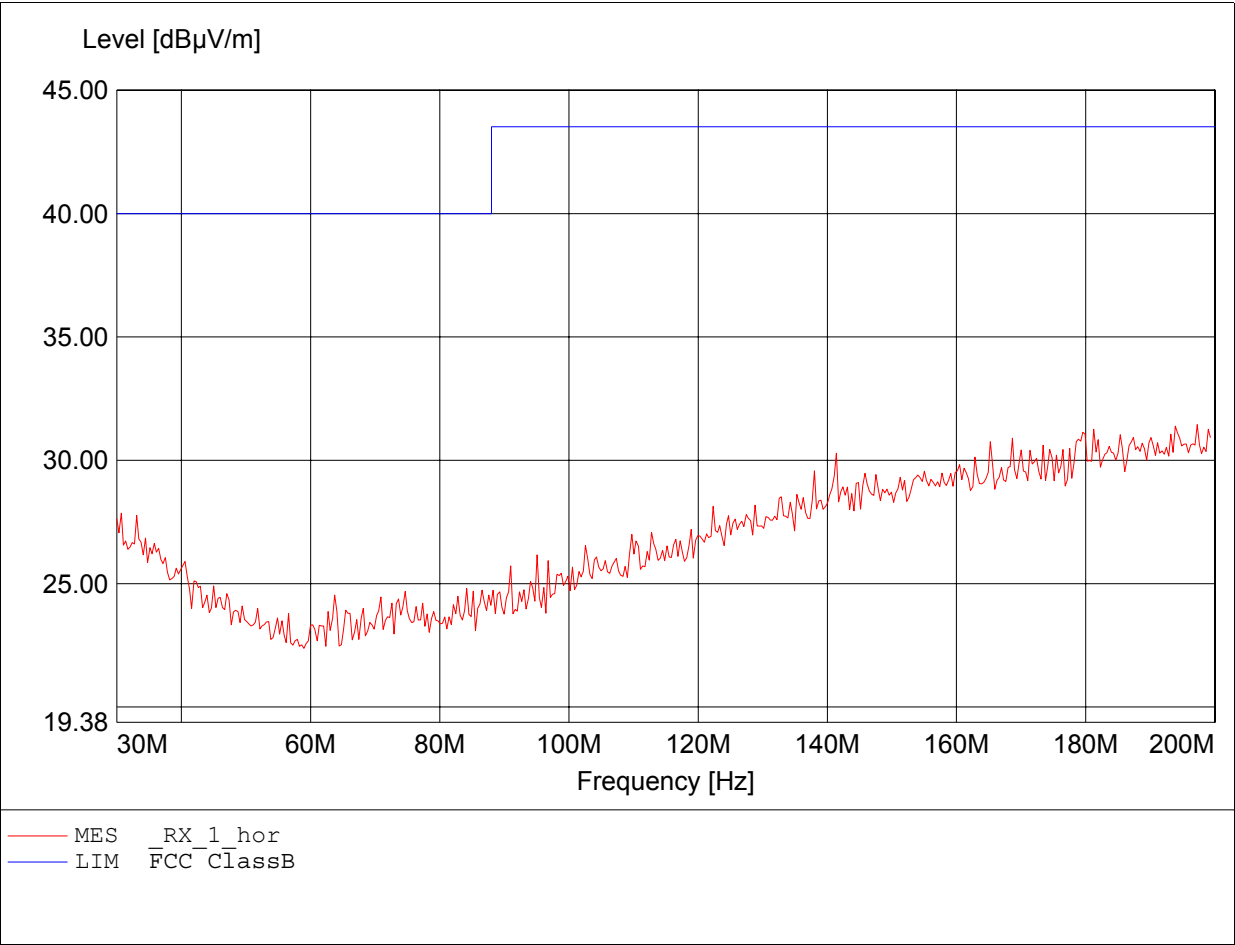
**Field Strength under normal conditions  
to FCC Part 15**

Approval Holder:       Revolabs, Inc.     /     Ord.: G0M20909-2538  
EUT:                    DECT 6.0 microphone system  
Model:                  Topaz  
Test Site / Operator:   Eurofins Product Service GmbH / Mr. Handrik  
Test Conditions 1:      23°C       /       Unom.: 120 V AC (AC/DC adaptor)  
Test Conditions 2:      Freq.: 1924.992MHz  
Comment 1:             Dist.: 3m, Ant.: HK 116  
Comment 2:             Freq:192.164MHz Emax:31.88dBµV/m RBW: 100 kHz



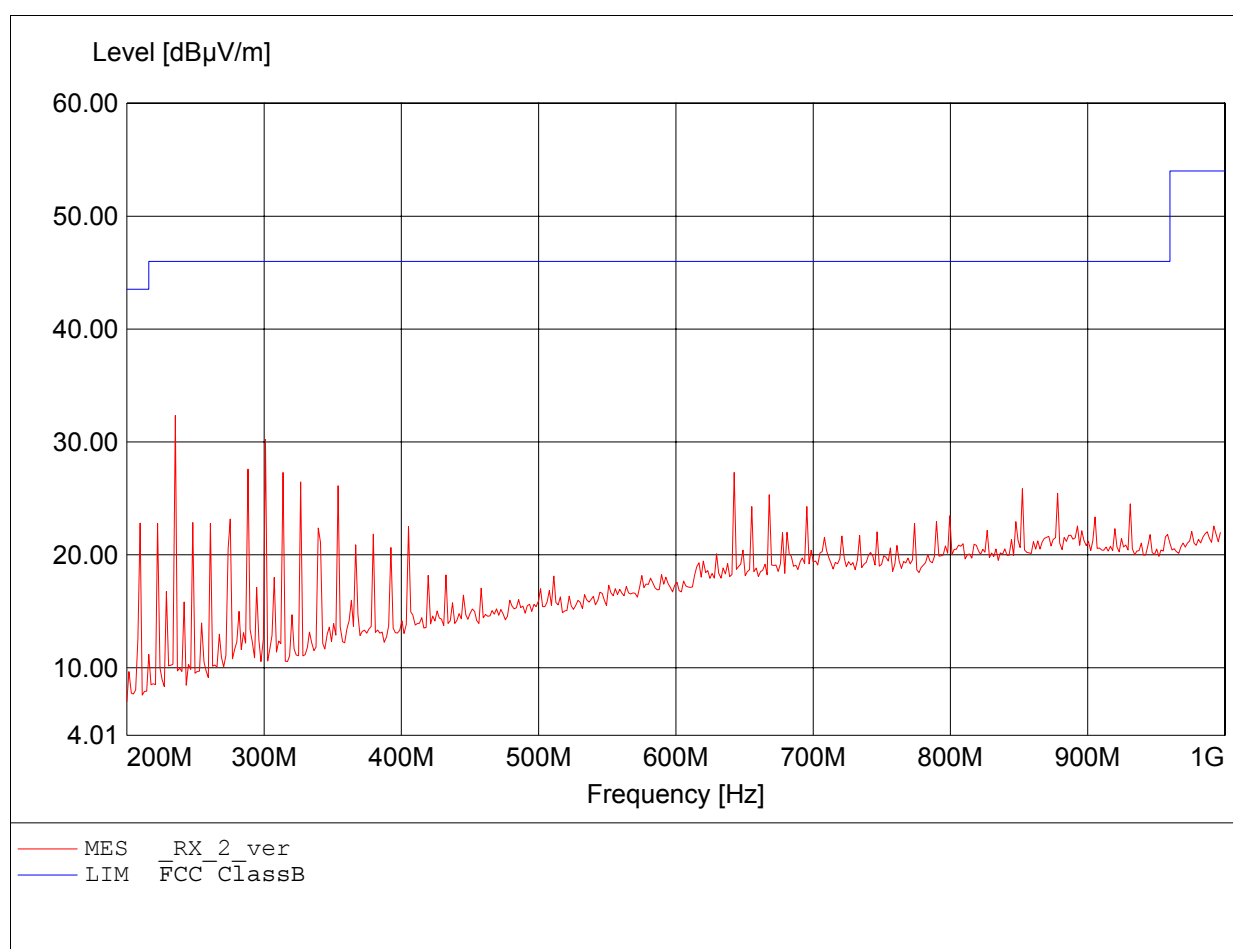
**Field Strength under normal conditions  
to FCC Part 15**

Approval Holder:      Revolabs, Inc.      /      Ord.: G0M20909-2538  
EUT:                      DECT 6.0 microphone system  
Model:                    Topaz  
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik  
Test Conditions 1:    23°C      /      Unom.: 120 V AC (AC/DC adaptor)  
Test Conditions 2:    Freq.: 1924.992MHz  
Comment 1:             Dist.: 3m, Ant.: HK 116  
Comment 2:             Freq:197.275MHz Emax:31.45dBµV/m RBW: 100 kHz



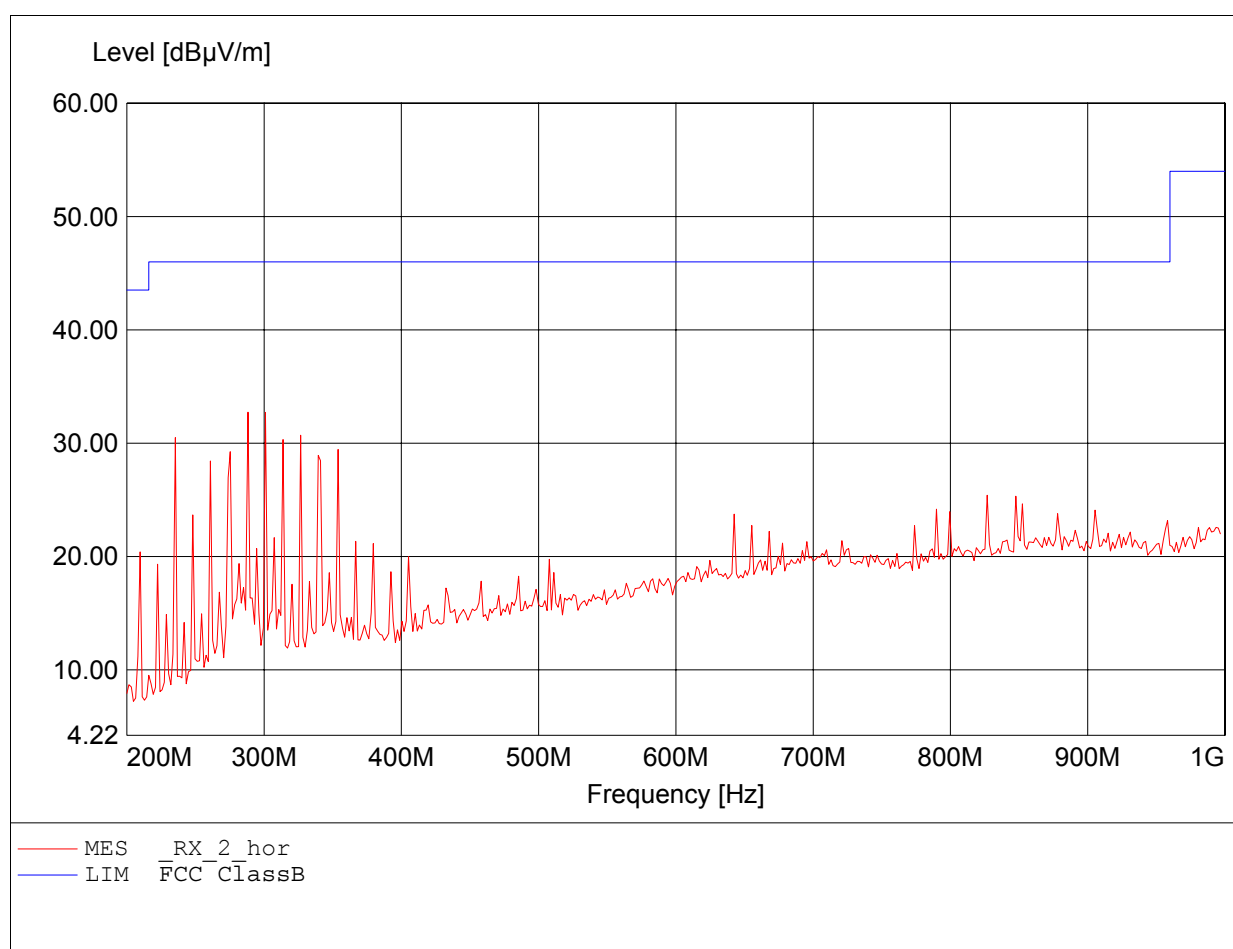
**Field Strength under normal conditions  
to FCC part 15**

Approval Holder: Revolabs, Inc. / Ord.: G0M20909-2538  
EUT: DECT 6.0 microphone system  
Model: Topaz  
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik  
Test Conditions 1: 23°C / Unom.: 120 V AC (AC/DC adaptor)  
Test Conditions 2: Freq.: 1924.992MHz  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Comment 2: Freq:235.271MHz Emax:32.34dBμV/m RBW: 100 kHz



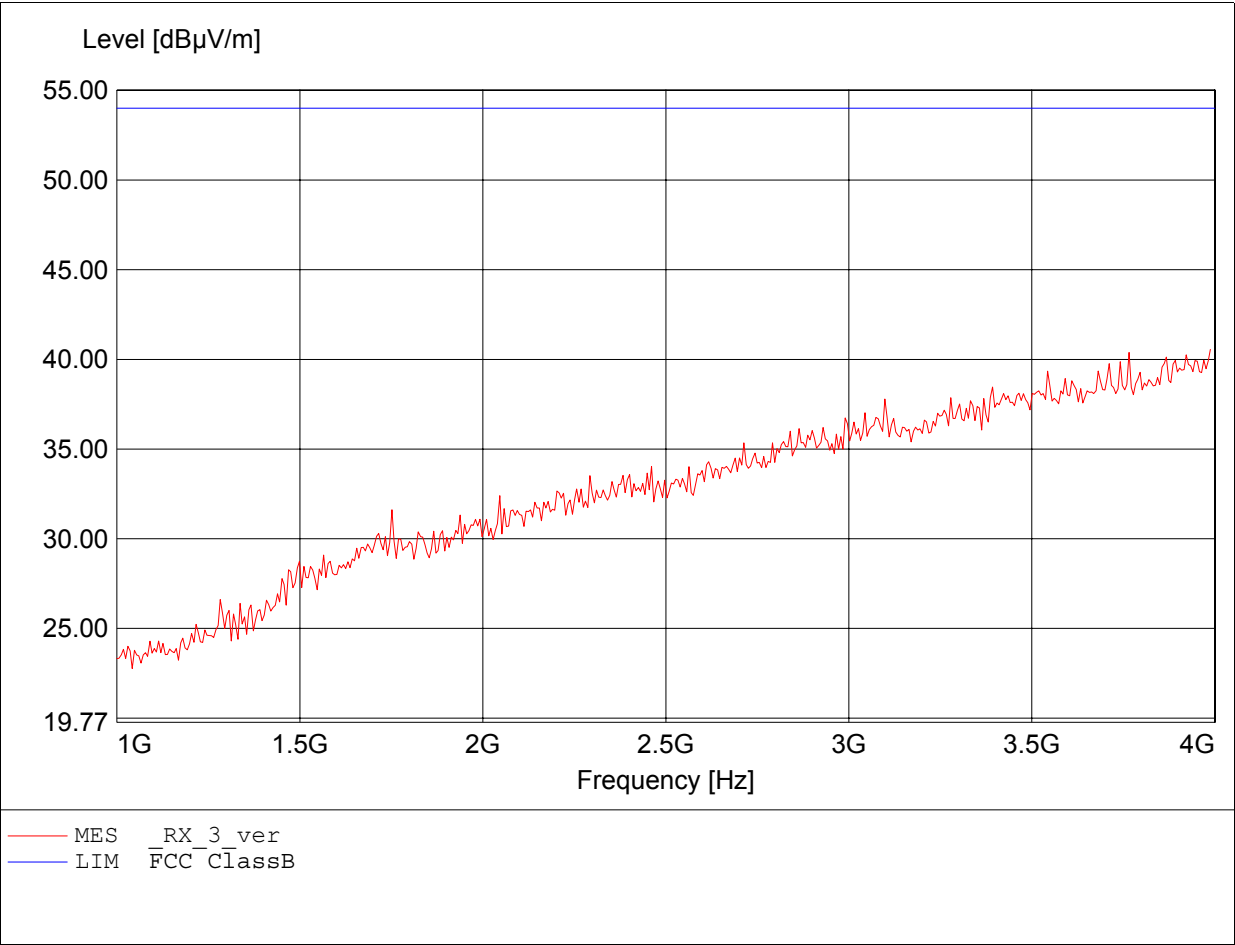
**Field Strength under normal conditions  
to FCC Part 15**

Approval Holder: Revolabs, Inc. / Ord.: G0M20909-2538  
EUT: DECT 6.0 microphone system  
Model: Topaz  
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik  
Test Conditions 1: 23°C / Unom.: 120 V AC (AC/DC adaptor)  
Test Conditions 2: Freq.: 1924.992MHz  
Comment 1: Dist.: 3m, Ant.: HL 223, ampl.  
Comment 2: Freq:288.176MHz Emax:32.74dBµV/m RBW: 100 kHz



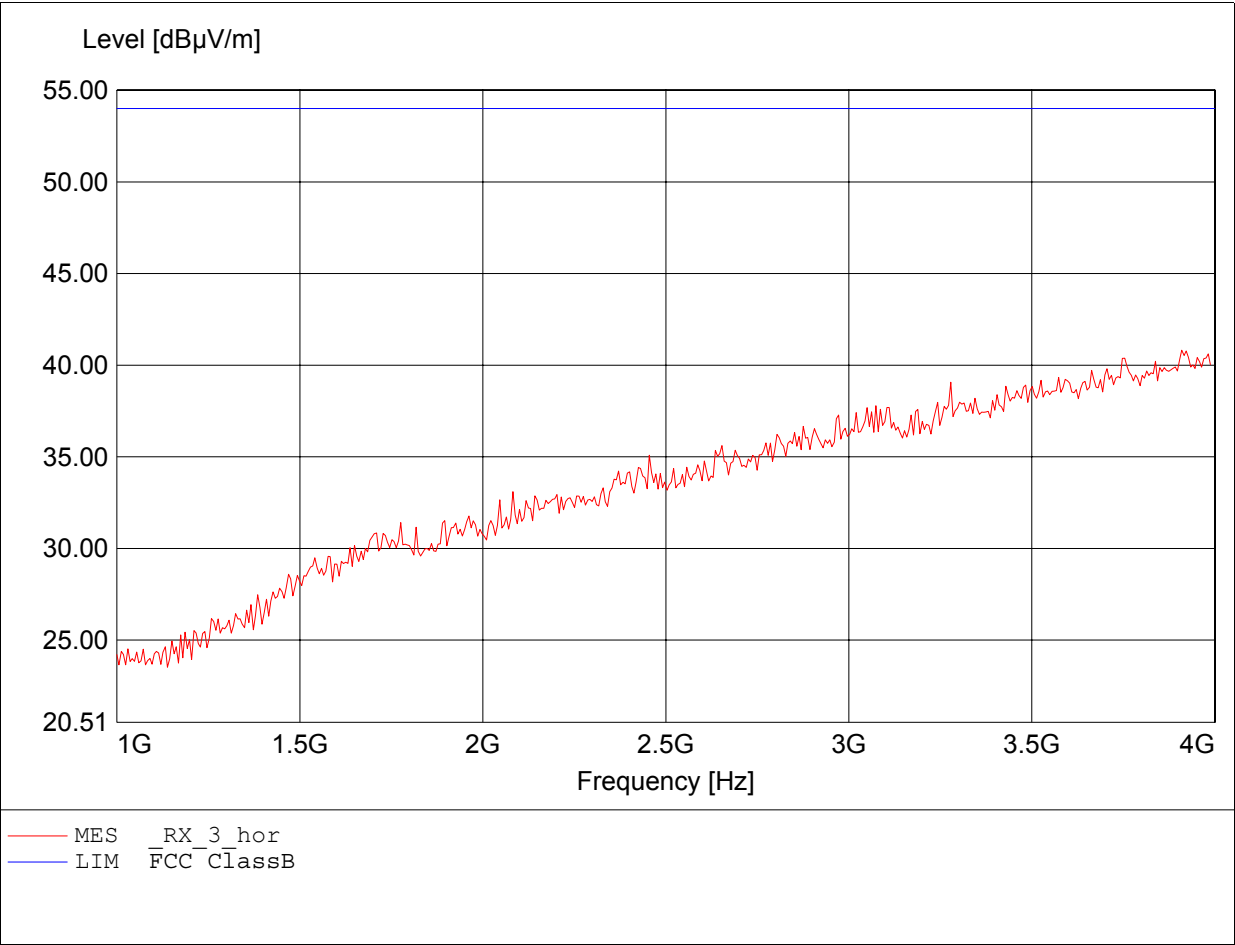
**Field Strength under normal conditions  
to FCC part 15**

Approval Holder:       Revolabs, Inc.     /     Ord.: G0M20909-2538  
EUT:                    DECT 6.0 microphone system  
Model:                  Topaz  
Test Site / Operator:   Eurofins Product Service GmbH / Mr. Handrik  
Test Conditions 1:     23°C       /       Unom.: 120 V AC (AC/DC adaptor)  
Test Conditions 2:     Freq.: 1924.992MHz  
Comment 1:             Dist.: 3m, Ant.: HL025, ampl.  
Comment 2:             Freq:3.988GHz Emax:40.56dBµV/m RBW: 1 MHz



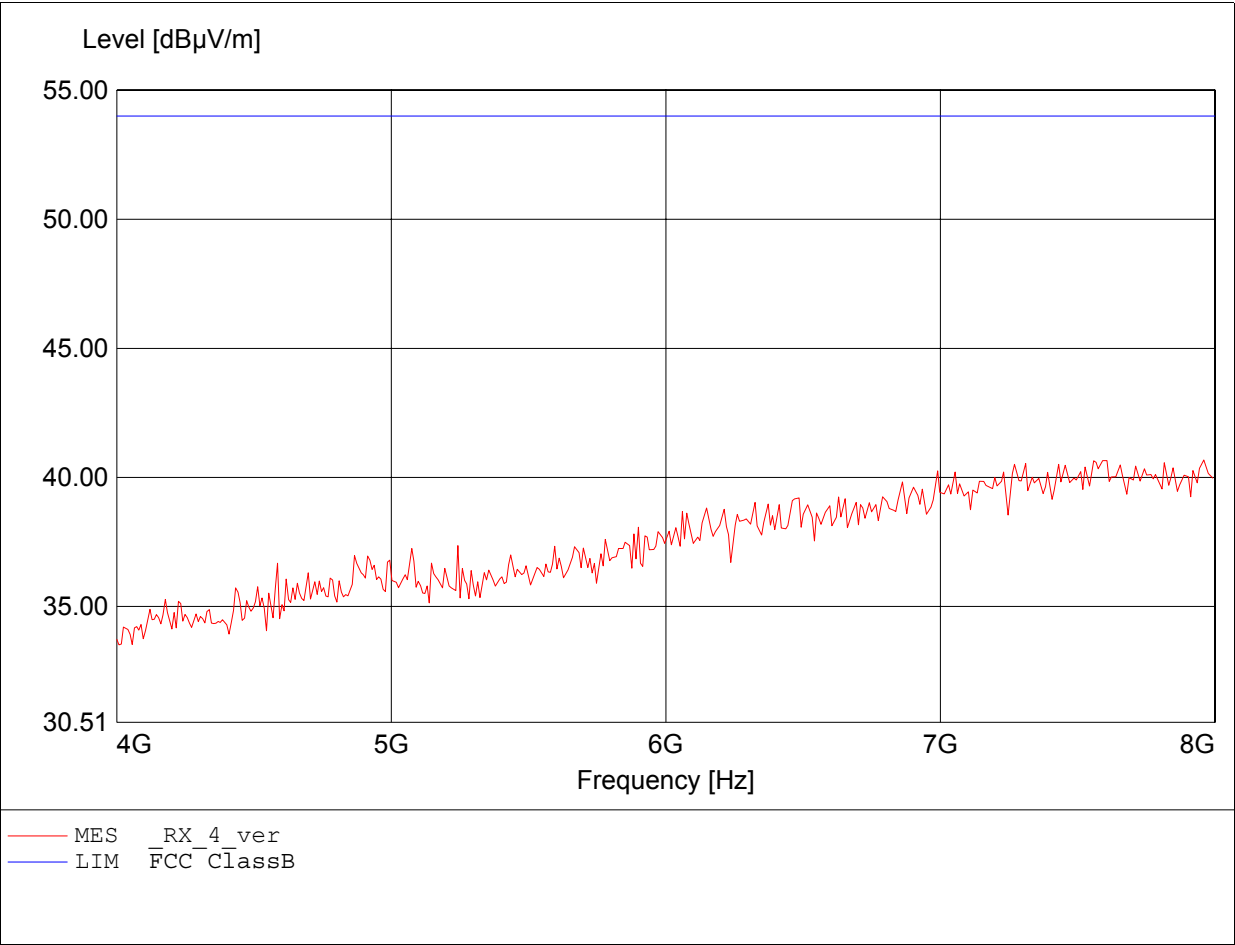
**Field Strength under normal conditions  
to FCC Part 15**

Approval Holder:       Revolabs, Inc.     /     Ord.: G0M20909-2538  
EUT:                    DECT 6.0 microphone system  
Model:                  Topaz  
Test Site / Operator:   Eurofins Product Service GmbH / Mr. Handrik  
Test Conditions 1:      23°C       /       Unom.: 120 V AC (AC/DC adaptor)  
Test Conditions 2:      Freq.: 1924.992MHz  
Comment 1:             Dist.: 3m, Ant.: HL025, ampl.  
Comment 2:             Freq:3.910GHz Emax:40.82dBµV/m RBW: 1 MHz



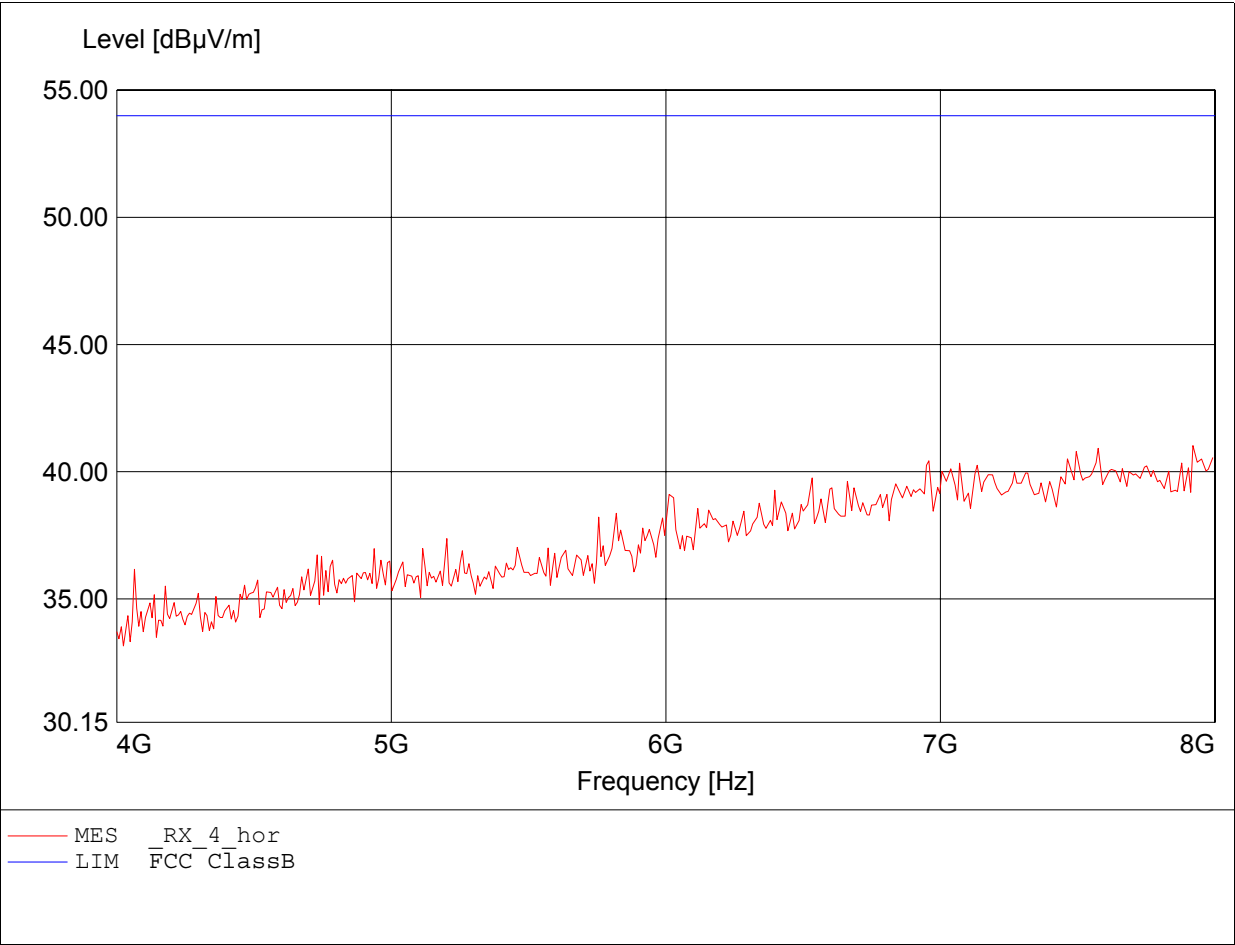
**Field Strength under normal conditions  
to FCC part 15**

Approval Holder:       Revolabs, Inc.     /     Ord.: G0M20909-2538  
EUT:                    DECT 6.0 microphone system  
Model:                  Topaz  
Test Site / Operator:   Eurofins Product Service GmbH / Mr. Handrik  
Test Conditions 1:      23°C       /       Unom.: 120 V AC (AC/DC adaptor)  
Test Conditions 2:      Freq.: 1924.992MHz  
Comment 1:             Dist.: 3m, Ant.: HL025, ampl.  
Comment 2:             Freq:7.960GHz Emax:40.67dBµV/m RBW: 1 MHz



**Field Strength under normal conditions  
to FCC Part 15**

Approval Holder:      Revolabs, Inc.      /      Ord.: G0M20909-2538  
EUT:                    DECT 6.0 microphone system  
Model:                  Topaz  
Test Site / Operator: Eurofins Product Service GmbH / Mr. Handrik  
Test Conditions 1:    23°C      /      Unom.: 120 V AC (AC/DC adaptor)  
Test Conditions 2:    Freq.: 1924.992MHz  
Comment 1:            Dist.: 3m, Ant.: HL025, ampl.  
Comment 2:            Freq:7.920GHz Emax:41.03dBµV/m RBW: 1 MHz



**Revision History**

| Revision | Issue Date | Revision                                                                                                                                                                                                                                                           | Revised by  |
|----------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
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