Hearing Aid Compatibility

HAC Update

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HAC Update

1- Recent Activity
2- Open Feed Back Session
3- Questions and Answers
Recent Activity – HAC Part 20.19

- Wireless phones held to Ear (C63.19 - implicit) that provide real-time, two-way voice service interconnected to the public switched network (North American Dialing Plan) (20.19 a)

Reuse frequencies and accomplish seamless hand-offs of subscriber calls. (20.19 a)
C63.19-2006

CMRS digital service is positioned to be subject to hearing aid compatibility requirements.

Today it only covers hearing aid devices specified by the C63.19-2006

<table>
<thead>
<tr>
<th>Frequency Bands</th>
<th>AWF – Standard Transmission Protocols</th>
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</thead>
<tbody>
<tr>
<td>800 - 960 MHz &amp; 1600 – 2500 MHz</td>
<td>TIA/EIA/IS-2000 CDMA (0 dB)</td>
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<tr>
<td></td>
<td>TIA/EIA-136 TDMA (50 Hz) (0 dB)</td>
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<tr>
<td></td>
<td>J-Std-007 GSM (217 Hz) (-5 dB)</td>
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<tr>
<td></td>
<td>T1/T1P1/3GPP UMTS (WCDMA) (0 dB)</td>
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<tr>
<td></td>
<td>iDEN TDMA (22/11 Hz) (0 dB)</td>
</tr>
</tbody>
</table>
Recent Activity

Past
- FCC-03-168 Digital Wireless Phones to be used with hearing aids.
- GSM 800 Waiver FCC 05-122
- DA-05-1134 PN 2001-2005

Present
- FCC 07-110 Extend the Disability Access Requirement Under Section 255
- DA 06-1215 2001-2005-2006
- FCC-07-72 CMRS R&O 700 MHz Band

Future
- Wireless Phone devices Held to Ear

2 Yr?

PCE 22/24/90

Presented by the Federal Communications Commission
October 2007 TCB Workshop, Baltimore MD
Model Variants - With different HAC ratings - under one FCC ID

• Model variants - with different HAC ratings under one FCC ID - is permitted.

• Each HAC rated model must be supported by appropriate test data either as an initial grant or through permissive class II changes.

• Models variants must be clearly documented in the filing and the following grant comment added: "HAC rating only evaluated for the specific configurations described in this filing."

• Counting Models (for 20.19 compliance) that have no distinguishing variations of form, features, or user capabilities, or only to differentiate units sold to a particular carrier, should not be separately counted.

• Equipment authorization System (EAS) does not track or require applicants to provide model numbers associated with different HAC ratings. Tracking model variants for HAC under one FCC ID is the responsibility of the reporting party (manufacturers and providers).
Open Discusses on Applications

Intro

- Table Of Contents
  - Summary Profile
  - FCC ID
  - Dates
  - Locations
  - Results Summary
  - Report Number
  - Standard -2006

Body

- Measurement Data
  - Modes Tested
    - Held To Ear Modes
    - 4.3.3 Antenna
    - Justification
  - EUT Profile
    - Description
    - FCC ID
    - Serial Number
    - Modes of Operation
    - Air Interfaces
    - Modulation

- Calibration Data
- Test System Description
- Equipment List
- Test Site Detail
- System Checkout
  - Validation
  - Alignment
  - Ref input Level
  - Modulation Factors

Support

- Measurement Uncertainty
- Supporting Appendixes