HAC Update

James Szeliga
2010 Ruling
Changes to Equipment Authorization Application
Currently a Draft Publication

1. Test report shall list air interfaces/bands indicating operating modes.
2. Grant note and grant comments.
3. Disclosure exhibits.
## Test Report shall list Air Interfaces/Bands Indicating Operating Modes Example Only

<table>
<thead>
<tr>
<th>Air-Interface</th>
<th>Band (MHZ)</th>
<th>Type</th>
<th>C63.19/ tested</th>
<th>Simultaneous Transmissions Note: Not to be tested</th>
<th>Concurrent single transmission</th>
<th>Reduced power 20.19 (c)(1)</th>
<th>Voice Over Digital Transport (Data)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSM</td>
<td>800</td>
<td>VO</td>
<td>Yes</td>
<td>Yes WIFI or LTE</td>
<td>Yes: GPRS/ EDGE, LTE, WIFI Not rated</td>
<td>No</td>
<td>NA</td>
</tr>
<tr>
<td></td>
<td>1900</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>NA</td>
</tr>
<tr>
<td>GPRS/ EDGE</td>
<td></td>
<td>DT</td>
<td>NA</td>
<td>NA</td>
<td>Yes: * see note</td>
<td>NA*</td>
<td>Yes</td>
</tr>
<tr>
<td>LTE</td>
<td>800</td>
<td>V/D</td>
<td>NA</td>
<td>Yes GSM</td>
<td>Yes: * see note</td>
<td>NA**</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>1900</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1700</td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>WIFI</td>
<td>2400</td>
<td>DT</td>
<td>NA</td>
<td>YES GSM</td>
<td>NA*</td>
<td>NA*</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>5000</td>
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</tr>
</tbody>
</table>

V0 Voice CMRS/PSTN Service Only  
V/D Voice CMRS/PSTN and Data Service  
DT Digital Transport

*HAC Rating was not based on concurrent voice and data modes, Non current mode was found to represent worst case rating, for both M and T rating
Grant Notes and Grant Comments

- Use “HC” Grant note for HAC Rated Phones and
  - Grant Comments: “HAC Rating M#T$-2006 or M#T$-2006, M#T$-2006”,
  - “HAC rating requires user activation of a special mode for GSM operation in the 1900 MHz band.”- If user must select GSM 1900 MHz Band power reduction for HAC rating“
- Add the additional grant note “HX” if interface bands supporting voice or voice over data applications not included in C63.19-2007 or have simultaneous transmissions.
  - And add the grant comment text “This phone has been tested and rated for use with hearing aids for only some of the wireless technologies that it uses”
- Note The Grant Note HX is not applicable for Air Interfaces/bands that have no capability to support voice or third party voice applications (i.e. API’s do not have the right to use the ear piece and microphone).
Disclosure Exhibits

- The HAC rating per Section 20.19(f)(1);
- An explanation of the ANSI C63.19 rating system per Section 20.19(f)(1);
- Handsets HAC rated that operate with both defined and not defined air interfaces/ bands (grant note “HX) disclosure statements per Section 20.19(f)(2);
- Handsets HAC rated for the GSM air-interface in the 1900 MHz Band using the user selectable mode of reducing the power under the provisions of Section 20.19(c)(1) shall provide a disclosure as defined in Section 20.19(f)(3).