Main factors of optical power attenuation:

- Ideal loss of splitter is 3dB per branch.
- Actual loss of splitter is the sum of the ideal loss and the connection loss.
- Insertion loss of pigtail/patch cord connected to adapters.
- Wavelength attenuation loss:
  - 1625nm: 0.21 dB/Km
  - 1550nm: 0.19 dB/Km
  - 1383nm: 0.28 dB/Km
  - 850nm: 1.81 dB/Km

List of FTTx and RFoG Test Measurement Instruments:

<table>
<thead>
<tr>
<th>Number of Ports</th>
<th>64</th>
<th>32</th>
<th>2</th>
<th>8</th>
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<td>15</td>
<td>3</td>
<td>9</td>
<td>6</td>
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<tr>
<td>20.5 dB</td>
<td>16.2 dB</td>
<td>3.6 dB</td>
<td>10.2 dB</td>
<td>7.2 dB</td>
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</tbody>
</table>

Deviser's Test Solutions for FTTx and RFoG:

- FTTH Test Solution
- RFOG Test Solution

FTTH Test Solution Diagram

- PON OTDR AE3100 CP
- PON OTDR AE4000 Series
- PON Optical Power Meter EP300
- CWDM Optical Power Meter AE600
- IPTV Tester E9100
- Ethernet Service Tester TC602RE
- Handheld Digital TV Spectrum Analyzer DS2800

RFOG Test Solution Diagram

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- PON OTDR AE4000 Series
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- CWDM Optical Power Meter AE600
- IPTV Tester E9100
- Ethernet Service Tester TC602RE
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- IPTV Tester E9100
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- Handheld Digital TV Spectrum Analyzer DS2800
- Multi-Service Network Analyzer TC712S

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