

| C.S0033 Test | E1966A | E1976A ₁ | E6706B/U | E6706C | E6706D | E6706E | E6706F | E6706G |
|---------------------------------------|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| Transmitter Tests | | | | | | | | |
| 4.3.4 Maximum RF Output Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 4.3.5 Minimum Controlled Output Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 4.3.6 Standby Output Power | Yes ⁸ | Yes ⁸ | Yes ⁸ | Yes ⁸ | Yes ⁸ | Yes ⁸ | Yes ⁸ | Yes ⁸ |
| 4.3.7 RRI Channel Output Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 4.3.8 Code Domain Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 4.3.8.1 DRC Channel Output Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 4.3.8.2 ACK Channel Output Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| 4.3.8.3 Data Channel Output Power | Yes ⁹ | Yes ⁹ | Yes ⁹ | Yes ⁹ | Yes ⁹ | Yes ⁹ | Yes ⁹ | Yes ⁹ |
| 4.4.1 Conducted Spurious Emissions | Yes ¹⁰ | Yes ¹⁰ | Yes ¹⁰ | Yes ¹⁰ | Yes ¹⁰ | Yes ¹⁰ | Yes ¹⁰ | Yes ¹⁰ |
| 4.4.2 Radiated Spurious Emissions | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ |
| 4.4.3 Occupied Bandwidth | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ | Yes ¹¹ |
| MAC Layer Tests | | | | | | | | |
| 5.2 Data Rate Control Performance | Yes ¹² | Yes ¹² | Yes ¹² | Yes ¹² | Yes ¹² | Yes ¹² | Yes ¹² | Yes ¹² |
| 5.5 Access Probe Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

| Mobile IP CS0037.0 V1.0 | E1966A | E1976A ₁ | E6706B/U | E6706C | E6706D | E6706E | E6706F | E6706G |
|---|--------|---------------------|----------|--------|--------|--------|--------|--------|
| Basic Mobile IP | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| NOTE: All items in this section require Software Concepts Inc.'s MOB-IP-SIM | | | | | | | | |
| Agent Discovery and Registration using Dynamic Home Address Assignment | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Agent Discovery and Registration using Static Home Address Assignment, Successful | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter-PDSN Handoff, MS in Active State | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Inter-PDSN Handoff, Mobile Station in Dormant State | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Intra-PDSN Handoff, MS in Active State | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Intra-PDSN HO, MS in Dormant State | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Mobile Station De-Registers | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Mobile Station Registration Request Failed, HA has Insufficient Resources | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Mobile Station Registration Request Retry | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Registration Lifetime Processing | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Router Advertisement Lifetime Expires | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Simple IP Establishment with CHAP | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Simple IP Establishment with PAP | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Simple IP Inter-PDSN Idle Handoff | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Simple IP Intra-PDSN Handoff, Mobile Station in Dormant State | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Successful PPP Negotiation and Termination | No | No | Yes | Yes | Yes | Yes | Yes | Yes |

| Call Processing | E1966A | E1976A ₁ | E6706B/U | E6706C | E6706D | E6706E | E6706F | E6706G |
|---|------------------------------|---------------------|----------|--------|--------|--------|--------|-------------------|
| AN Start/End TAP/ETAP Test Data Connection | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Band Classes | Yes ¹³ | Yes | Yes | Yes | Yes | Yes | Yes | Yes ¹⁵ |
| Connect/Disconnect | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Enhanced AT Phase Error Tolerance for Testing Access Terminals with High Phase Transients | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Factory Test Mode (FTM) Rel. 0 | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Forward Link Early Termination | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Hard Handoff to New Channel or Band | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| IS-856 Test Operating Mode | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| MEID Support | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Release 0 (RTAP/FTAP) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Release A (RETAP/FETAP) | Opt 102 | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Release B (RMCTAP/FMCTAP) | Opt 102, 103, 406 | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Release B Factory Test Mode (One Box) | Yes ¹⁴ Opt 102 | No | No | No | Yes | Yes | Yes | Yes |
| Release B 64QAM (FMCTAP) | Opt 102, 104 | No | No | No | Yes | Yes | Yes | Yes |
| Session Close (User-settable Timeout) | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Session Negotiation | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Session Open | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Settable System Time | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| System Parameters | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Traffic Channel Packet Histogram Display | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| UATI Assign | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |

05| Keysight | 1xEV-DO Applications Feature Comparison – October 2014

| Call Processing | E1966A | E1976A ₁ | E6706B/U | E6706C | E6706D | E6706E | E6706F | E6706G |
|--------------------------------|------------|---------------------|----------|--------|--------|--------|--------|--------|
| 4 Slot Preamble | R2C-200810 | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Band Class 30 | R2C-201203 | No | No | No | No | Yes | Yes | Yes |
| Band Class 30 for US in Flight | R2C-201410 | No | No | No | No | No | No | Yes |
| VSNCP Enhancement | No | No | No | No | No | No | Yes | Yes |
| Fast Dormancy Timer | No | No | No | No | No | No | Yes | Yes |

| Lab Application Features | E1966A | E1976A ₁ | E6706B/U | E6706C | E6706D | E6706E | E6706F | E6706G |
|--|-----------------------------|---------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| 1.8 Mbps IP Data Throughput (Rel A Reverse Link) | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| 153.6 kbps IP Data Throughput (Rel 0 Reverse Link) | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| 2.4 Mbps IP Data Throughput (Rel 0 Forward Link) | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| 3.1 Mbps IP Data Throughput (Rel A Forward Link) | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Data Over Signaling (DOS) in the Reverse Link | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Data Throughput Monitor | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Default Packet Application (DPA) Rel 0 | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Default Packet Application (DPA) Rel A | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| EAP_AKA' Authentication for eHRPD | No | No | No | Yes | Yes | Yes | Yes | Yes |
| eHRPD (alternate EMPA with VSNCP) | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Enhanced Idle State Protocol | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Enhanced Multi-Flow Packed Application | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| External Digital Baseband I/Q Fading | Yes ³ Opt 405 | No | Yes ³ | Yes ³ | Yes ³ | Yes ³ | Yes ³ | Yes ³ |
| Graphical Access Probe Power | No | No | Yes | Yes | Yes | Yes | Yes | Yes |

06| Keysight | 1xEV-DO Applications Feature Comparison – October 2014

| Lab Application Features | E1966A | E1976A ₁ | E6706B/U | E6706C | E6706D | E6706E | E6706F | E6706G |
|--|---------|---------------------|----------|--------|--------|--------|--------|--------|
| Hybrid Mode | Opt 406 | No | Yes | Yes | Yes | Yes | Yes | Yes |
| IP Routing State | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| IPv6 | No | No | No | Yes | Yes | Yes | Yes | Yes |
| Multi-Flow Packet Application | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Multiple PDN (up to 3) with eHRPD | No | No | No | No | Yes | Yes | Yes | Yes |
| Multiple Unit Synchronization | Opt 406 | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Non-Optimized Handover LTE->eHRPD (with PXT) | No | No | No | No | No | Yes | Yes | Yes |
| Optimized Handover LTE to eHRPD (with PXT) | No | No | No | No | No | No | Yes | Yes |
| Cell Reselection/Redirection from eHRPD to LTE | No | No | No | No | No | No | Yes | Yes |
| Preferred Control Channel Cycle (PCCC) | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Protocol Logging with WPA | Opt 407 | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Robust Header Compression | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| Settable Rx Delay | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| User-settable DRC Length | Yes | No | Yes | Yes | Yes | Yes | Yes | Yes |
| VoIP | No | No | Yes | Yes | Yes | Yes | Yes | Yes |
| User-settable UATI and UATI Subnet Mask | No | No | No | No | No | No | No | Yes |
| Two Additional P-CSCF IP Addresses | No | No | No | No | No | No | No | Yes |

07| Keysight | 1xEV-DO Applications Feature Comparison – October 2014

| Measurements | E1966A | E1976A ₁ | E6706B/U | E6706C | E6706D | E6706E | E6706F | E6706G |
|--|------------|---------------------|----------|--------|--------|--------|--------|--------|
| Access Probe Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Digital Average Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Code Domain Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Dynamic Range | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| FTAP Loopback | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Modulation Quality | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| PER with AWGN | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Receiver Sensitivity | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Spectrum Monitor | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Time Response of Open Loop Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Tx Channel Power with Fast Mode | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Tx Dynamic Power | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Tx Spurious Emissions | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Fast Device Tune | E1999A-202 | No | Yes | Yes | Yes | Yes | Yes | Yes |
| I/Q Analyzer – Eye Diagram, Constellation/Vector Diagram | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Single Channel GPS Source | E1999A-206 | No | No | Yes | Yes | Yes | Yes | Yes |

Notes:

1. All items in this application must be performed in test mode.
2. Requires hardware Option 004 and external baseband studio hardware and software.
3. Requires an external signal generator.
4. Requires two external signal generators.
5. Requires an external signal generator with 1xEV-DO and CDMA capabilities.
6. Static time reference only.
7. Supports Tests 1 and 3-11 minimum standard (a) only, by remote program only.
8. Fully supports idle standby output power. Supports the measurement of standby power between access probe bursts by remote program only.
9. Tests 1-5 and 8-10.
10. Supports adjacent and alternate channels only.
11. Requires an external spectrum analyzer.
12. Requires a fader.

08| Keysight | 1xEV-DO Applications Feature Comparison – October 2014

13. Supports Band Classes 0-7, 10-12, 14-15, and 18-19. Band Classes 11, 12, 18, and 19 require an R2C license after October 2008 and E6706C, R2C (Feb 2013) license enables new additional channels of BC0 for China Telecomm.
14. E1966A needs an R2C license after April 2010.
15. Six additional frequency bands added to E6706G.