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| <b>Laboratory</b>             | <b>CDTL Noida , Tech Mahindra Ltd., A 20, Sector 60, Noida, U. P.</b> |                    |                   |
| <b>Accreditation Standard</b> | <b>ISO/IEC 17025: 2005</b>  |                    |                   |
| <b>Discipline</b>             | <b>Electronics Testing</b>  | <b>Issue Date</b>  | <b>11.03.2014</b> |
| <b>Certificate Number</b>     | <b>T-2175</b>   | <b>Valid Until</b> | <b>10.03.2016</b> |
| <b>Last Amended on</b>        | <b>-</b>  | <b>Page</b>        | <b>1 of 3</b>     |

| <b>S.No.</b> | <b>Product / Material of Test</b> | <b>Specific Test Performed</b> | <b>Test Method Specification against which tests are performed</b> | <b>Range of Testing / Limits of Detection</b> |
|--------------|-----------------------------------|--------------------------------|--|---|
|--------------|-----------------------------------|--------------------------------|--|---|

#### **I. ELECTRONIC COMPONENTS & EQUIPMENT**

|           |  |                           |   |   |
|-----------|--|---------------------------|---|---|
| <b>1.</b> | <b>LTE Mobile Terminal</b>                     | Wireless Protocol Testing | 3GPP TS 36 523-1 (E-UTRA) and Evolved Packet Core (EPC);User Equipment (UE) conformance specification; Part 1: Protocol conformance specification (3GPP TS 36.523-1 FDD) (Section: 6, 7, 8, 9, 10, 11, 12, 13)  | Test performed using of the GCF Test Plan and GCF – Device Certification Criteria |
| <b>2.</b> | <b>UMTS Mobile Terminal</b>                    | Wireless Protocol Testing | Universal Mobile Telecommunications System (UMTS); User Equipment (UE) conformance specification; Part 1: Protocol conformance specification (3GPP TS 34.123-1) (Section: 6,7,8,9,10,11,12,13,14, 16, 17)   |   |
| <b>3.</b> | <b>GSM / GPRS / EDGE / STK Mobile Terminal</b> | Wireless Protocol Testing | 3GPP TS 51.010-1 Mobile Station (MS) Conformance Specification; Part 1: conformance Specification; (Section: 11,12, 15, 18, 19, 20, 25, 26, 27, 28, 29, 31, 33, 34, 41, 42, 43, 44 ,45, 46, 47, 51, 52, 53, 57 )<br>3GPP TS 51.010-4 Mobile Station (MS) Conformance Specification;Part4: Subscriber Identity Module(SIM)<br>Application toolkit Conformance Test Specification (Section: 27) |   |

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| 4.           | <b>A-GPS for 2G Mobile Terminals</b>             | Wireless Protocol Testing      | 3GPP TS 51.010-1 Mobile Station (MS) conformance specification; Part 1: Conformance specification (Section: 70)  |   |
| 5.           | <b>A-GPS for 3G Mobile Terminals</b>             | Wireless Protocol Testing      | 3GPP TS 34.171 AGPS Conformance Specification  |   |
| 6.           | <b>USIM Application Test on Mobile Terminals</b> | Wireless Protocol Testing      | 3GPP TS 31.121 UICC-terminal interface; Universal Subscriber Identity Module (USIM) application test specification (Section: 5, 6, 7 & 8)  |   |
| 7.           | <b>USAT Conformance on Mobile Terminals</b>      | Wireless Protocol Testing      | 3GPP TS 31.124 Mobile Equipment (ME) conformance test specification; Universal Subscriber Identity Module Application Toolkit (USAT: Stage1 and Stage2) conformance test specification (Section: 27) |   |
| 8.           | <b>Audio for 2G-3G Mobile Terminals</b>          | Wireless Protocol Testing      | 3GPP TS 26.132 Speech and video telephony terminal acoustic test specification (Section: 7)  |   |

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| 9.    | <b>RF for 2G Mobile Terminals</b> | Wireless RF Testing       | 3GPP TS 51.010 Mobile Station (MS) conformance specification; Part 1: Conformance specification (Section: 12,13,21)  |  |
| 10.   | <b>RF for 3G Mobile Terminals</b> | Wireless RF Testing       | 3GPP TS 34.121 Terminal conformance specification, Radio transmission and reception (FDD) (Section: 5, 6, 7, 9 & 10) |  |
| 11.   | <b>UICC Terminal Interface</b>    | Wireless Protocol Testing | ETSI TS 102 230 Physical, electrical and logical test specification (Section: 6 & 7)                                 |  |
| 12.   | <b>GSMA Field Trials</b>          | Field Testing             | GSMA TS11  |  |
| 13.   | <b>OMA</b>                        | Wireless Protocol Testing | OMA SUPL v1.0<br>OMA SUPL v2.0   |  |

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