


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

 <p>2404</p> <p>Accredited to ISO/IEC 17025:2005</p>	<h3>ADR Testing Service</h3> <p>Issue No: 045 Issue date: 16 May 2012</p>	
	<p>Motorola Mobility Inc 600N US Hwy 45 Libertyville IL 60048 United States of America</p>	<p>Contact: Mr Kevin Gallagher Tel: +1 847 523 5119 Fax: +1 847 523 4538 E-Mail: kevin.gallagher@motorola.com Website: www.motorola.com</p>
<p>Testing performed by the Organisation at the locations specified below</p>		

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details	Activity	Location code
<p>Address 2 Avenue du Docteur Maurice Grynfolgel 31100 Toulouse France</p> <p>Local contact Susana Barreiro Mouriz</p>	<p>Testing: Telecommunications</p>	ADR TLS
<p>Address ADR Test Service Motorola Mobility Inc 600 N. US Hwy 45 Libertyville IL. 60048 United States of America</p> <p>Local contact Steve Milazzo</p>	<p>Testing: Telecommunications EMC SAR OTA Radio</p>	ADR LV
<p>Address Motorola Mobility (Beijing) Technologies Ltd No.1 Wang Jing East Road Chao Yang District Beijing 100102 P.R. China</p> <p>Local contact Dr Yilin Zhao</p>	<p>Testing: Telecommunications EMC SAR OTA Radio Bluetooth</p>	ADR BJ



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Mobile Stations And equipment such as Wireless communications devices (examples): Two Way Radios; Portable Phones (including Cellular Licensed Non-Broadcast and PCS), Low Frequency Readers, And Pagers	1 EMC Testing 1.1 Conducted Emissions 9 kHz to 30 MHz	CISPR 22:2005 EN 55022:1998 EN 55022:2006 FCC CFR 47:Part 15A,15B, 15C* 27* ANSI C63.4:2003*	ADR BJ ADR LV (as identified by *)
	1.2 Radiated Emissions Electric Field 30 MHz to 40 GHz	CISPR 16-2-3:2010 CISPR 22:2005 EN 55022:2006 FCC CFR 47:Part 15A, 15B, 15C* 27* ANSI C63.4:2003*	ADR BJ ADR LV (as identified by *)
	1.3 Electrostatic Discharge 0.25 to 16 kV	IEC 1000-4-2:1995 EN 61000-4-2:1995 including Amendment A1:1998 and A2:2001	ADR BJ
	1.4 Radiated Electromagnetic Field Immunity: 80 MHz to 2.7 GHz up to 3 V/m	EN 61000-4-3:1996 including A1:1998 EN 61000-4-3:2002 including A1:2002 EN 61000-4-3:2006+A1:2008	ADR BJ
	1.5 Fast Transient/Burst Immunity: 0.25 kV to 4.0 kV Positive and Negative Polarity 5 ns rise time, 10 ns duration 15 ms burst duration	EN 61000-4-4:1995 including Amendments A1:2001 and A2:2002 EN 61000-4-4:2004	ADR BJ
	1.6 Automotive Transient Immunity: Pulses 1, 2, 3a, 3b, 4	ISO 7637:2004	ADR BJ



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Mobile Stations And equipment such as Wireless communications devices (examples): Two Way Radios; Portable Phones (including Cellular Licensed Non-Broadcast and PCS), Low Frequency Readers, And Pagers (cont'd)	1 EMC Testing (cont'd)		
	1.7 Surge Immunity Waveforms: 0.2 kV to 6 kV 1.2/50 (8/20) µs Common mode Differential mode	EN 61000-4-5:1995 including Amendment A1:2001 EN 61000-4-5:2006	ADR BJ
	1.8 Conducted Radio Frequency Immunity: 10 kHz to 230 MHz RF voltage up to 10 V rms Injection via coupling networks, direct injection or bulk current injection	EN 61000-4-6:1996 including Amendment A1:2001 EN 61000-4-6:2007 inc Corr 2007	ADR BJ
	1.9 AC Power Ports Voltage Dips, Interruptions and Fluctuations (Immunity): Voltage Dips: up to 100% Voltage Reductions: up to 100% Voltage Fluctuations: up to 100%	EN 61000-4-11:1994 including Amendment A1:2001 EN 61000-4-11:2004	ADR BJ
	1.10 EMC Tests This section includes generic and product family standards that refer to basic standards included in Sections 1.1 to 1.9 of this Schedule.	EN 301 489-1:V1.4.1 EN 301 489-1:V1.5.1 EN 301 489-1:V1.6.1 EN 301 489-1:V1.8.1 EN 301 489-7:V1.2.1 EN 301 489-7:V1.3.1 EN 301 489-17:V1.1.1 EN 301 489-17:V1.2.1 EN 301 489-24:V1.2.1 EN 301 489-24:V1.3.1 EN 301 489-24:V1.4.1	ADR BJ



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Short Range Devices Low Power Devices	2 Transmitter and Receiver Testing		
	2.1 Radio Testing	3GPP TS 51.010-1	ADR BJ
	2.1.1 Transmitter Spurious* Emissions 30 MHz to 40 GHz	EN 301 511 EN 301 908-1 EN 301 908-2 EN 301 908-13	ADR LV as identified*
	2.1.2 Receiver Spurious* Emissions 30 MHz to 40 GHz	EN 301 893:V1.3.1 EN 300 328:V1.7.1 EN 300 440-1:V1.4.1 EN 301 357-1 V1.3.1	
	2.1.3 Output power*	EN 301 357-2 V1.3.1 FCC CFR 47:Part 22* FCC CFR 47:Part 24*	
	2.1.4 Occupied bandwidth*	FCC CFR 47:Part 27C* FCC CFR 47:Part 27L*	
	2.1.5 Frequency stability*	FCC CFR 47:Part 15A, 15B, 15C, 15D* 27*	
	2.1.6 Modulation Characteristics	As per reference to FCC CFR 47:Part 2J for paragraph 2.1046, 2.1047, 2.1049, 2.1053, 2.1055 and 2.1057*	
	2.1.7 Control and Monitoring Function for UE	FCC CFR47:Part 90S* RSS 118:1990 RSS 129:1999* RSS 213:2005 RSS-GEN:2007* RSS-129:1999* RSS-132:2005* RSS-133:2009* RSS-139: 2009* RSS-210:2007* ANSI C63.4:2003*	



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Mobile stations, Short Range Devices Low Power Devices	3 OTA Testing 3.1 OTA TRP and TIS Testing Frequency range 800 MHz to 2500 MHz 850, 900, 1800 and 1900 Bands, FDD I, II, IV, V, VIII GSM/GPRS, WCDMA, CDMA,	CTIA Test Plan for Mobile Station Over The Air Performance V2.2.2 3GPP TS 34.114 3GPP TS 25.144	ADR BJ ADR LV
Mobile Stations, Short Range Devices, Low Power Devices, Laptops, GPS	3.2 OTA TRP and TIS Testing Frequency Range 800 to 2500 MHz 850, 900, 1800 and 1900 Bands FDD I, II, IV, V, VIII GSM/GPRS, WCDMA, CDMA 3.3 OTA TRP and TIS Testing Frequency range 2400 to 2500 and 5000 to 6000 MHz IEEE 802.11a IEEE 802.11b IEEE 802.11g	CTIA Test Plan V3.1 and CTIA Test Plan for Mibile Station Over The Air Performance V2.2.2 3GPP TS 34.114 3GPP TS 25.144 CTIA Test Plan for RF Performance Evaluation of WiFi Mobile Converged Devices V1.3	ADR LV
Wireless Communication Devices (examples): Two Way Radios, Portable Phones (including Cellular Licensed Non-Broadcast, AWS and PCS, FDD Band I, II, IV, V, VIII) Tablets etc.	4.0 SAR Test Frequency Range: 400 MHz to 5 GHz DASY 4 and DASY 5Test systems	IEC 62209-1:2006 RSS 102: 2005 IEEE 1528: 2003 FCC OET Bulletin 65, Supplement C; EN 50360: 2001 Australian Communications Authority "Radiocommunications (electromagnetic Radiation - Human Exposure) Standard 2003"	ADR BJ ADR LV



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
<p>EMC and Radio Test Facilities</p> <p>Beijing</p> <p>Fully Anechoic Chamber: 12 m x 8 m x 6 m Semi-Anechoic Chamber: 22 m x 15 m x 8.5 m Shielded Room 7 m x 3.5 m x 2.7 m</p> <p>Max EUT size: 1.5 m x 1.5 m x 1.5 m Max EUT weight: 750 kg</p> <p>Power supplies available: 240V ac 16A 1 phase 415V ac 32A 3 phase</p>			
Mobile Stations	5 Telecommunications Testing		ADR
	5.1 RF, AF, and Signalling Parameters	3GPP TS 51.010-1 3GPP TS 51.010-4 EN 301 511 3GPP TS 26.132 3GPP TS 31.121 3GPP TS 34.121-1 3GPP TS 34.123-1 3GPP TS 34.171 3GPP TS 31.124 3GPP TS 36.521-1 3GPP TS 36.521-3 3GPP TS 36.523-1 ETSI TS 102 230 EN 301 908-1 EN 301 908-2 EN 301 908-13	
	5.2 Application Enablers	OMA-ETS-MMS IMTC(3G-324) OMA-ETS-PoC Con OMA-ERP-DM OMA-SUPL-AE PTCRB 2G TTY (Test Telephony) RFT V4.3	



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service

21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	<p>Telecommunications Testing Facilities:</p> <p>ANITE SYSTEMS</p> <p>Anite SAT 8(A) UE System Protocol signalling tester for GSM, GPRS, EGPRS, UMTS Supported Options: GSM 850/900/1800/1900. UTRA FDD I, II, V, VI. L2, L3, RLP, SIM, AMR, GPRS, EGPRS, Inter RAT HO and HSDPA. Section 21.x as a RF tester</p>	<p>3GPP TS 51.010-1 3GPP TS 34.123-1 3GPP TS 31.121</p>	ADR BJ
	<p>ANITE SYSTEMS (cont'd)</p> <p>Anite SAT6 System Protocol signalling tester for GSM/GPRS Supported Options: GSM 900/1800/1900 L2, L3, RLP, GPRS, DTM</p>	<p>3GPP TS 51.010-1</p>	ADR TLS
	<p>Anite SAT4 (A) UE System Protocol signalling tester for GSM, GPRS, EGPRS, UMTS Supported Options: GSM 850/900/1800/1900. UTRA FDD I, II, V, VI. L2, L3, RLP, SIM, AMR, GPRS, EGPRS, Inter RAT HO and HSDPA</p>	<p>3GPP TS 51.010-1 3GPP TS 34.123-1</p>	ADR LV
	<p>Anite SAT6 (A) UE System Protocol signalling tester for GSM, GPRS, EGPRS, UMTS Supported Options: GSM 850/900/1800/1900. UTRA FDD I, II, V, VI. L2, L3, RLP, SIM, AMR, GPRS, EGPRS, Inter RAT HO and HSDPA</p>		ADR TLS
	<p>Anite CT LTE System</p>	<p>3GPP TS 36.521-3</p>	ADR LV



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	<p>Telecommunications Testing Facilities: (cont'd)</p> <p>ROHDE & SCHWARZ SYSTEMS</p> <p>Rohde & Schwarz CRTU-G Protocol signalling tester for GSM, GPRS, EGPRS up to 4 cell Multibox Supported Options: GSM 850/900/1800/1900 L2, L3, RLP, SIM, SAT, AMR, GPRS, DTM, EGPRS</p> <p>Rohde & Schwarz CRTU-G Protocol signalling tester for GSM, GPRS, EGPRS up to 10 cell Multibox Supported Options: GSM 850/900/1800/1900 L2, L3, RLP, SIM, SAT, AMR, GPRS, DTM, EGPRS, A-GPS</p> <p>Rohde & Schwarz CRTU-2G3/ CRTU-W Protocol signalling tester for UTRA FDD Supported Options: FDD I, II, IV, V & VI, Inter RAT HO, HSDPA</p> <p>Rohde & Schwarz CRTU-RRM RF tester for UTRA FDD RRM Supported Options: RRM tests for FDD I, II, IV, V & VI, including HSDPA (Section 8)</p> <p>Rohde & Schwarz TS8950G Radio Test System for GSM/GPRS/ EGPRS RF Supported Options: RF circuit and packet switched for GSM 850/900/1800/1900, Section 21.x, AMR-INB, Section 14.10.x, DARP</p>	<p>3GPP TS 51.010-1 3GPP TS 51.010-4</p> <p>3GPP TS 51.010-1 3GPP TS 51.010-4</p> <p>3GPP TS 31.121 3GPP TS 34.123-1 3GPP TS 51.010-1</p> <p>3GPP TS 34.121-1</p> <p>3GPP TS 51.010-1</p>	<p>ADR TLS ADR BJ</p> <p>ADR LV</p> <p>ADR AL ADR LV</p> <p>ADR LV</p> <p>ADR LV ADR BJ</p>



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Telecommunications Testing Facilities: (cont'd)		
	ROHDE & SCHWARZ SYSTEMS (cont'd)		
	Rohde & Schwarz TS8952G Radio Test System for GSM/GPRS/EGPRS RF Supported Options: RF circuit and packet switched for GSM 850/900/1800/1900, Section 21.x, AMR-INB, Section 14.10.x, DARP	3GPP TS 51.010-1	ADR LV
	Rohde & Schwarz TS8950GW Radio Test System for GSM/GPRS/EGPRS RF and UTRA FDD Supported Options: RF circuit and packet switched for GSM 850/900/1800/1900, Section 21.x, AMR-INB, Section 14.10.x, DARP and for FDD I, II, IV, V & VI incl. HSDPA (Section 5, 6, 7, 9)	3GPP TS 51.010-1 3GPP 34.121-1	ADR LV
	Rohde & Schwarz TS8980 E-UTRA RF test System FDD-4/7/12/13/17/20	3GPP TS 36.521-1	ADR LV
	Rohde & Schwarz TS8980 & CMW500 E-UTRA RRM test System FDD-4/7/12/13/17/20	3GPP TS 36.521-3	ADR LV
	Rohde & Schwarz CMW500 E-UTRA Protocol test System FDD-4/7/12/13/17/20	3GPP TS 36.523-1	ADR LV
	Rohde & Schwarz UPL16 + CMU200 Audio Analyzer Supported Options: GSM Audio, UTRA FDD Audio	3GPP TS 51.010-1 3GPP TS 26.131 3GPP TS 26.132	ADR BJ



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Telecommunications Testing Facilities: (cont'd)		
	ANRITSU		
	ANRITSU TRX Radio Test System for UTRA FDD Supported Options: RF circuit and packet switched for FDD I, II, IV, V, VI, VIII incl HSDPA (Section 5, 6, 7, and 9)	3GPP 34.121-1	ADR LV
	ANRITSU TRX/RRM Radio Test System for UTRA FDD Supported Options: RF circuit and packet switched for FDD I, II, IV, V, incl HSDPA and RRM (Section 5, 6, 7, 8 and 9)	3GPP 34.121-1	ADR BJ
	RACAL SYSTEMS		
	RACAL 6401 AIME Protocol Signalling Tester for UTRA FDD Supported Options: FDD I, II, IV, V & VI, Inter RAT HO, HSDPA	3GPP TS 34.123-1 3GPP TS 51.010-1	ADR BJ
	COMPRION SYSTEMS		
	Comprion Digital/Analog (U)SIM Tester IT3 (U)SIM digital/analog signalling tester Supported Options: SIM, SIM Application Toolkit, USIM, USIM Application Toolkit	3GPP TS 51.010-1 3GPP TS 51.010-4 3GPP TS 31.121 3GPP TS 31.124 ETSI TS 102 230	ADR LV ADR BJ



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Telecommunications Testing Facilities: (cont'd)		
	COMPRION SYSTEMS		
	Comprion Digital SIM Tester IT3 SIM digital signalling tester Supported Options: SIM, SIM Application Toolkit	3GPP TS 51.010-1 3GPP TS 51.010-4	ADR TLS
	AT4 Wireless SYSTEMS		
	AEROFLEX SYSTEMS Racal 6103 AIME CT & AIME AMR/CT Protocol signalling tester for AMR, GPRS, EGPRS Supported Options: GSM 850/900/1800/1900, AMR, GPRS, EGPRS, DTM	3GPP TS 51.010-1	ADR BJ
	Setcom S-CAT6020 Application Enabler Test Platform	OMA -ETS-MMS IMTC(3G-324) OMA-ETS-PoC OMA-ERP-DM	ADR LV ADR BJ
	Spirent ULTS	3GPP TS 51.010 3GPP TS 34.171 OMA-SUPL-AE	ADR LV
	7Layers Interlab	3GPP TS 51.010-1 Sect 90.x (TTY)	ADR LV
	Support Equipment		
	Vibration Platform Environmental Chambers		ADR LV ADR BJ



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Bluetooth Devices	6 Bluetooth Tests		
	6.1 RF Transmitter, Transceiver and Receiver Tests	Bluetooth Test Specification Ver. 1.2/2.0/2.0 + EDR/2.1/2.1 + EDR	ADR BJ
	6.2 Protocol and Profile Tests	Bluetooth CORE SPECIFICATION Version 1.2 Volume 2 Part B Baseband Volume 2 Part C Link Manager Volume 2 Part E Host Controller Interface Volume 3 Part A L2CAP Volume 3 Part B Service Discovery Volume 3 Part C Generic Access Profile	ADR BJ
		Bluetooth CORE SPECIFICATION Version 2.0 + EDR Volume 2 Part B Baseband Volume 2 Part C Link Manager Volume 2 Part E Host Controller Interface Volume 3 Part A L2CAP Volume 3 Part B Service discovery Volume 3 Part C Generic Access Profile	ADR BJ
		Bluetooth CORE SPECIFICATION Version 2.1 + EDR Volume 2 Part B Baseband Volume 2 Part C Link Manager Volume 2 Part E Host Controller Interface Volume 3 Part A L2CAP Volume 3 Part B Service discovery Volume 3 Part C Generic Access Profile	ADR BJ
		Bluetooth CORE SPECIFICATION Version 2.1 + EDR Volume 2 Part B Baseband Volume 2 Part C Link Manager Volume 2 Part E Host Controller Interface Volume 3 Part A L2CAP Volume 3 Part B Service discovery Volume 3 Part C Generic Access Profile	ADR BJ



2404

Accredited to
ISO/IEC 17025:2005

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
21 - 47 High Street, Feltham, Middlesex, TW13 4UN, UK

ADR Testing Service

Issue No: 045 Issue date: 16 May 2012

Testing performed by the Organisation at the locations specified

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
Bluetooth Devices (cont'd)	6 Bluetooth Tests (cont'd) 6.2 Protocol and profile Tests (cont'd)	RFCOMM Protocol specification 1.1 (test Suite Structure (TSS) and Test Purposes (TP))	ADR BJ
	Bluetooth Testing Facilities: Rohde-Schwarz TS8960 AT4 Wireless BITE PTS E1111	Bluetooth Test Specification Ver. 1.2/2.0/2.0 + EDR/2.1/2.1 + EDR	
END			