


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

 <p>UKAS TESTING</p> <p>4416</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p>Electromagnetic Testing Services Ltd</p> <p>Issue No: 015 Issue date: 26 August 2020</p>	
	<p>Pratts Fields Lubberhedges Lane Stebbing Dunmow Essex CM6 3BT</p>	<p>Contact: Mr G Vassila Tel: +44 (0)1371 856061 Fax: +44 (0)1371 856144 E-Mail: info@etsemc.co.uk Website: www.etsemc.co.uk</p>
<p>Testing performed at the above address only</p>		

DETAIL OF ACCREDITATION

Flexible Scope

The laboratory is accredited for the use of a Flexible Scope for testing activities in the area(s) of EMC (Commercial and Automotive).

This may include tests on the same or similar product types, against standards or customer-specified methods that are not specifically listed in this Schedule for EMC testing, providing that:

- [1] The method or standard does not introduce new principles of measurement;
- [2] The method or standard does not require measurements to be made outside the parametric boundaries defined in this Schedule.

Information about Flexible Scopes of accreditation is available in UKAS document GEN 4 publicly available from the UKAS website.

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Electrical Electronic Components Electrical Electronic Products Electro Mechanical Devices IT Equipment Industrial Equipment Scientific Equipment Certain Medical Equipment	<p>Section 1 Commercial EMC</p> <p>1.1 Conducted emissions 9 kHz to 30 MHz</p>	EN 55022:2006 EN 55022:2006 + A1 EN 55022:2010 EN 55011:2007 EN 55011:2009 + A1 EN 55011:2016 EN 55032:2015
	<p>1.2 Conducted Emissions Discontinuous (Clicks) 9 kHz to 30 MHz</p>	EN 55014-1:2006 + A1:2009 + A2:2011
	<p>1.3 Radiated emissions 30 MHz to 18 GHz</p>	EN 55022:2006 EN 55022:2006 + A1 EN 55022:2010 EN 55011:2007 EN 55011:2009 + A1 EN 55011:2016 EN 55032:2015



4416
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Electromagnetic Testing Services Ltd
Issue No: 015 **Issue date:** 26 August 2020

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Electrical Electronic Components Electrical Electronic Products Electro Mechanical Devices IT Equipment Industrial Equipment Scientific Equipment Certain Medical Equipment (cont'd)	Section 1 Commercial EMC (cont'd)	
	1.4 ESD Up to 30 kV	EN 61000-4-2:1995 EN 61000-4-2:1995 + A1 + A2 EN 61000-4-2:2009
	1.5 Radiated Immunity tests 80 MHz to 6 GHz 20 V/m 35 V/m over smaller area 0.5 m * 0.5 m	EN 61000-4-3:2006 + A1:2008 + A2:2010
	1.6 Electrical Fast Transient and Bursts 250 V to 4800 V	EN 61000-4-4:2004 EN 61000-4-4:2012
	1.7 Surge 250 V to 6000 V	EN 61000-4-5:1995 EN 61000-4-5:2006 EN 61000-4-5:2014
	1.8 Conducted Immunity 150kHz to 230 MHz	EN 61000-4-6:2006 EN 61000-4-6:2009 EN 61000-4-6:2014
	1.9 Power Frequency Magnetic Fields Up to 300 A/m	EN 61000-4-8:1993
	1.10 Pulse Magnetic Field Up to 1200 A/m	EN 61000-4-9:1994
	1.11 Voltage Dips and Interrupts	EN 61000-4-11:2004
	1.12 Power Frequency Harmonics Single phase up to 16 A	EN 61000-3-2:2006+A1+A2 EN 61000-3-2:2014
	1.13 Flicker Single phase up to 16 A	EN 61000-3-3:2008 EN 61000-3-3:2013



4416
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Electromagnetic Testing Services Ltd
Issue No: 015 **Issue date:** 26 August 2020

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Automotive ESA	Section 2 Automotive EMC	
	2.1 Conducted emissions 150 kHz to 108 MHz	CISPR 25:2002 + Corr:2004
	2.2 Radiated emissions 30 MHz to 1000 MHz	CISPR 25:2002 + Corr:2004
	2.3 Transient emissions Conducted emissions on supply lines	UNECE Reg 10.5 ISO 7637-2:2004 + A1:2008
	2.4 Automotive Conducted Immunity - BCI 1 to 400 MHz Up to 100mA	ISO 11452-4:2005
	2.5 Transient Immunity Conducted immunity on supply lines	UNECE Reg 10.5 ISO 7637-2:2004 + A1:2008
	2.6 Radiated Immunity Absorption Chamber 20 MHz to 2 GHz 30 V/m	ISO 11452-2:2004 Substitution method UN Reg 10.05
3.0 Generic and Product Specific	EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 + A1:2011 EN 61000-6-4:2007 + A1:2011 EN 60601-1-2:2007 EN 60601-1-2:2015 EN 61326-1:2013 EN 61326-2-6:2013	
These standards are covered to the extent that the basic standards are covered in the above sections.	EN 50121-3-2:2006 EN 50121-3-2:2016 EN 301489-1 V1.9.2	



4416
Accredited to
ISO/IEC 17025:2017

Schedule of Accreditation
issued by
United Kingdom Accreditation Service
2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Electromagnetic Testing Services Ltd
Issue No: 015 **Issue date:** 26 August 2020

Testing performed at main address only

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
FCC Scope of Accreditation Unintentional Radiators	Radiated Emissions 9 kHz to 40 GHz Conducted Emissions 9 kHz to 30 MHz	ANSI C63.4-2014 FCC CFR 47 Part 15 B ANSI C63.4-2014 FCC CFR 47 Part 15 B
Consumer ISM Equipment	Radiated Emissions 9 kHz to 40 GHz Conducted Emissions 9 kHz to 30 MHz Facilities: OATS 3 m & 10 m Test distance GRP 20 m * 11 m 1.2 m Turntable 2 Tons 240 V single phase 50 Hz 20 A 415 V three phase 50 Hz 100 A per 115 V single phase 60 Hz 40 A SAC 1 m & 3 m Test distance 5.5 m * 8.9 m * 6 m 2.0 m Turntable 240 V single phase 50 Hz 20 A 415 V three phase 50 Hz 20 A per 115 V single phase 60 Hz 40 A Assorted Screen rooms various sizes	FCC MP-5 (February 1986), FCC CFR 47 Part 18 FCC MP-5 (February 1986), FCC CFR 47 Part 18
END		