Schedule of Accreditation

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Orchid Cellmark Ltd (trading as Cellmark)

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Testing performed by the Organisation at the locations specified below

Locations covered by the organisation and their relevant activities

Laboratory locations:

Location details		Activity	Location code
Address Unit 16 Blacklands Way Abingdon Business Park Abingdon Oxfordshire OX14 1DY	**Local contact** Kim Holt Tel: +44 (0)1235 528609 Fax: +44 (0)1235 554428 E-Mail: Kim.Holt@forensicsuk.eurofins.com Websites: www.cellmarkforensics.co.uk www.cellmark.co.uk	Forensic Testing; Paternity and Relationship testing; Forensic and Veterinary and Forensic Analysis	A
Address Unit 1 Buckshaw Link Ordnance Road Buckshaw Village Chorley Lancashire PR7 7EL	**Local contact** Kim Holt Tel: +44(0)1235 528609 Fax: +44(0)1235 554428 E-Mail: Kim.Holt@forensicsuk.eurofins.com Websites: www.cellmarkforensics.co.uk www.cellmark.co.uk	Forensic Analysis	B
Address Units 3 Tungsten Park Sandy Way Amington Tamworth B77 4GZ	**Local contact** Kim Holt Tel: +44(0)1235 528609 Fax:+44(0)1235 554428 E-Mail: Kim.Holt@forensicsuk.eurofins.com Websites: www.cellmarkforensics.co.uk www.cellmark.co.uk	Record Archive	C

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	Forensic Testing	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 in relation to the Forensic Activities listed below. In addition, where compliance has been demonstrated for the related FSA specific requirements this is stated below at the relevant schedule entry.	A, B
BODY FLUIDS and TISSUES	Forensic Analysis	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
Blood - Whole - Stains - FTA cards Semen - Whole - Azoospermic Faeces Saliva - Whole - Stains - FTA Cards - Swabs (buccal cells) Hair Cellular Material	DNA Profiling: Short Tandem Repeat (STR) DNA profiling for forensic analysis of: - Low Template DNA (SGM Plus and NGM SElect)) - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database - Elimination Database samples (VED/SED and PED) - Environmental Monitoring Samples (NGM SElect only)	Documented In-House Methods using manual/automated extraction - Qiagen (EZ1) (FSP0050) Modified organic (FSP0038) - Qiagen (EZ2) (FSP0151) - Alkali Lysis extraction (FSP0033) - Fast differential semen DNA extraction (FSP0087) - Direct semen extraction (FSP0102) - QIAamp Fast Stool DNA Minikit (FSP0073 Documented In-House Methods using manual and automated quantification Real Time Quantification using Quantiplex ProDual RT-PCR (FOR0017)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis cont	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis Documented In-House Methods (FSP0124 using manual amplification (PCR) and the following chemistry: - NGM SElect - GlobalFiler Documented In-House Methods (FSP0170) using Electrophoresis - Applied Biosystems 3500xl Genetic Analyser©	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	

	Related Opinions and Interpretation
	
	Interpretation of DNA profiles generated internally from crime stains (single source/major-minor mixtures/complex mixtures) and reference samples
	
	Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)
		Documented In-House methods (FRP0166, FRP0114, FRP0117 FRP0139 FRP0151 FRP0162, FRP0124/ TG0025/FSP0021/ FRP0152, FOR0123, FOR0126, FOR0160 FOR0161)
		- Genetic Characterisation
		- GMID 3.2.1
		- GeneMapper IDX v1.5
		- Expert systems:
		  - DNA Resolve (LikeLTD)
		  - ReliCalc
		  - STRMix (v2.10.0)
		  - DBLR
		  - YHRD
			A
			A, B,
			A, B
			A, B
			A, B
			
			A, B
			A,B
			A,B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
	Forensic Testing (cont'd)		
Blood - Whole - Stains - FTA cards Semen - Whole - Azoospermic Saliva - Whole - Stains - FTA Cards - Swabs (buccal cells) Hair Cellular Material Body Tissue - Nail - Muscle - Bone - Teeth - Products of conception	Massive Parallel Sequencing based Autosomal Short Tandem Repeat (STR)/Y-STR/X-STR/Identity SNP/Phenotypic SNP/Biogeographical ancestry SNP DNA profiling for forensic analysis of: - Crime Scene/ Missing persons Samples	Documented In-house Methods for Massive Parallel Sequencing Sample Amplification, Enrichment, Library Preparation, Purification and Normalisation using -Verogen ForenSeq™ DNA -Signature Prep Kit VER0001	A
	Related Opinions and Interpretation Interpretation of DNA profiles generated internally from crime stains (single source/major-minor mixtures/complex mixtures) and reference samples	Documented In-house Methods for Massive Parallel Sequencing of pooled libraries using - Illumina MiSeq FGx & MiSeq FGx Control Software (MCS)VER0002	
	Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories	Documented In-House Methods - Genetic Characterisation Verogen Forenseq™Universal Analysis Software (Windows) VER0003/VER0004/VER0005/FOR0024/FOR0100/FOR0101	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
Blood - Whole - Stains - FTA cards Semen - Whole - Azoospermic Saliva - Whole - Stains - FTA Cards - Swabs (buccal cells) Faeces Urine Stomach Contents Hair Cellular Material Body Tissue - Nail - Muscle - Bone - Teeth - Amniotic Fluid - Products of conception	DNA Profiling: Short Tandem Repeat (STR)/Mitochondrial/Y Chromosome DNA profiling for forensic analysis of: - Low Template DNA (elevated cycle number and post PCR enhancement) - Crime Scene Samples	Documented In-House Methods using manual/automated extraction - Modified organic (FSP0038) - Qiagen EZ1 (FSP0050) Documented In-House Methods using Manual quantification - Real Time Quantification using Quantiplex ProRT-PCR (FOR0017) Mini-gel Documented In-House Methods using Manual amplification (PCR) and the following chemistry: - NGM Select (FSP0156) - Identifiler (FSP0156) - mtDNA (MIT0004) - Minifiler (FSP0156) - Powerplex Y23 (FSP0149) Documented In-House Methods (FSP0028/FSP0170, FSP017, FSP0053, FOR0109/FOR0110) using Electrophoresis - Applied Biosystems 3500xl Genetic Analyser© - Applied Biosystems 3500xl Genetic Analyser© for crime scene samples following NGM SElect and PPY23 amplification	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
	Related Opinions and Interpretation Interpretation of DNA profiles generated internally from crime stains (single source/major-minor mixtures) and reference samples Statistical analysis and comparison of DNA profiles generated from crime stains with compatible reference DNA profiles (internally generated or from other accredited laboratories)	Documented In-House methods (FRP0153, FSP0172, FSP0174 FRP0123, MIT0006, MIT0009, MIT0011, FSP0080//FRP0135) Genetic Characterisation - GMID 3.2.1 - GeneMapper IDX v 1.4 and 1.5 - Expert systems: - Sequencher - DBLR	 A, B A, B A, B A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	<u>Relationship Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
Blood - Whole - Serum - Stains Semen - Whole - Azoospermic Saliva - Whole - Swabs (buccal cells) Faeces Hair Body Tissue - Nail - Muscle - Bone - Teeth - Amnoitic Fluid - Products of conception	Short Tandem Repeat (STR)/Mitochondrial/Y Chromosome DNA profiling for relationship testing for: - Paternity - Maternity - Sibling - Familial Searching - Extended relationship (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin)	Documented In-House Methods using Manual/Automated extraction - FTA Purification (STR0187) Documented In-House Methods (FSP0054) using Manual quantification - Qiagen manual QIAamp (STR0043) Real Time Quantification using Quantiplex PRORT-PCR (FOR0017) Documented In-House Methods using Manual amplification and the following chemistry: - NGM Select (STR0161) - Powerplex Fusion (STR0190) - Powerplex Y23 (FSP0149) Documented In-House Methods using Electrophoresis (FSP0170/STR 0218) - Applied Biosystems 3500 Genetic Analyser©	A
	<u>Related Opinions and Interpretation</u> Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile information from within submitted cases	Documented In-House methods (STR0084/STR0099/STR0219/ STR0208/STR0220/FSP0174) - Genetic Characterisation o GMID 3.2 o GeneMapper IDX v1.4 and 1.5	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
Blood - Whole - Serum - Stains Semen - Whole - Azoospermic Saliva - Whole - Swabs (buccal cells) Faeces Hair Body Tissue - Nail - Muscle - Bone - Teeth - Amniotic Fluid Products of conception	Massive Parallel Sequencing based Autosomal Short Tandem Repeat (STR)/Y-STR/X-STR/Identity SNP/Phenotypic SNP/Biogeographical ancestry SNP DNA profiling for relationship testing for: -Paternity -Maternity -Sibling -Familial Searching -Extended relationship (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild, Cousin)	Documented In-house Methods for Massive Parallel Sequencing Sample Amplification, Enrichment, Library Preparation, Purification and Normalisation using -Verogen ForenSeq™ DNA -Signature Prep Kit VER0001 Documented In-house Methods for Massive Parallel Sequencing of pooled libraries using - Illumina MiSeq FGx & MiSeq FGx Control Software VER0002	A
	<u>Related Opinions and Interpretation</u> Comparison, interpretation, and statistical analysis of DNA profiles against compatible DNA Profile information from within submitted cases	Documented In-house Methods for Massive Parallel Sequencing of pooled libraries using - Illumina MiSeq FGx & MiSeq FGx Control Software (MCS)VER0002 In-House Methods - Genetic Characterisation Verogen Forenseq™Universal Analysis Software (Windows VER0003/VER0004/VER0005/ STR0234	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
ANY MATERIAL	Searching for: - Blood - Semen - Saliva - Urine - Hairs	Documented In-House Methods (FSP0027/ FOR0010, FSL0071, FSL0005, FOR0015, FSL0070, FSL0010) using: - visual examination - white light - low power microscopy - high power microscopy - chemical testing (see below) The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	 A, B, A, B A, B, A, B A, B,
	Recovery and preparation, including for contingency purposes, for subsequent DNA analysis by an ISO/IEC 17025 accredited laboratory of the following from searched materials and swabs: - Blood - Semen - Saliva - Hairs - Cellular Material	Documented In-House Methods (FOR0034, FOR0010, FOR0037, FSL0014, FOR0003, FSL0040, FSL0083, FOR0001, FSL0010) using: - cutting - swabs and swabbing - taping - mini-taping - extraction of stained materials - extraction of swabs	 A, B A, B A, B A, B A, B A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
Blood	Presumptive testing for blood via detection of: - Peroxidase - Human Haemoglobin	Documented In-House Methods (FOR0009) using:	
		- KM (Kastle Meyer)	A, B
		- Luminol	A, B
		- Hydrogen Peroxide	A, B
		- OBTI	A, B
	Related Opinions and Interpretations	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Bloodstain pattern analysis	
	Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory	Documented In-House Methods (FSL0044/TG0010) using: - visual examination - low power microscopy	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis</u>	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Human DNA examination and analysis	
Semen	Presumptive testing for seminal fluid, via detection of: - Acid Phosphatase - Choline	Documented In-House Methods (FSL0005, FSL0007) using: - Acid phosphatase reagent - Choline detection by Florence Iodine test	A, B
	Confirmatory testing for seminal fluid via identification of spermatozoa	Documented In-House Methods (FOR0148) using: - High power microscopy - Christmas Tree staining - Haematoxylin and Eosin staining	A, B
Saliva	Presumptive testing for saliva via detection of: - Amylase	Documented In-House Methods (FOR0015 and FOR0001) using: - Phadebas paper - Amylase paper - Phadebas tube test	A, B
Urine	Presumptive testing for urine via detection of: - Urea	Documented In-House Methods (FSL0060) using: - DMAC	A, B
Hairs	Differentiation of human and animal hairs	Documented In-House Methods (FSL0068) using: - visual examination - low power microscopy - high power microscopy	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Toxicology: analysis for drugs in relation to s5A of the Road Traffic Act 1988	
Whole Blood (Preserved)	Detection and quantitation of drugs in relation to s5A of the Road Traffic Act 1988 (as amended) and The Drug Driving (Specified Limits) (England and Wales) Regulations 2014 (Amended) (Cut-Off Limit):		A
	Delta-9-tetrahydrocannabinol (THC) (2 µg/L)	Documented in house (TOX0024) using: - Solid phase extraction - GC-MS-MS	A
Blood / Urine (Preserved, Unpreserved)	Detection and quantitation of alcohol in relation to Section 5 of the Road Traffic Act 1988 (as amended) and other sample types over the concentration range 10 to 500 mg/100mL for legal limits of 20mg/100 ml (aviation) and 80 mg/100mL (Section 5) in blood 27 mg/100ml (aviation and) 107mg/100ml in urine	Documented in house (TOX0029) using: HS-GC-FID	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: Toxicology: analysis for drugs in relation to s5A of the Road Traffic Act 1988	
Whole Blood (Preserved)	The Confirmation and quantitation of drugs in relation to s5A of the Road Traffic Act 1988 (as amended) and The Drug Driving (Specified Limits) (England and Wales) Regulations 2014 (Cut-off); [Concentration Range]: Amphetamine (250 µg/L); [100-1500 µg/L] Benzoylecgonine (50 µg/L); [20-300 µg/L] Clonazepam (50 µg/L); [20-300 µg/L] Cocaine (10 µg/L); [4-60 µg/L] Diazepam (550 µg/L); [100-1500 µg/L] Flunitrazepam (300 µg/L); [100-1500 µg/L] Ketamine (20 µg/L); [8-120 µg/L] Lorazepam (100 µg/L); [40-600 µg/L] Lysergic Acid Diethylamide – LSD (1µg/L); [0.4-6.0 µg/L] Methadone (500 µg/L); [100-1500 µg/L] Methylamphetamine (10 µg/L); [4.0-60 µg/L] Methylenedioxymethamphetamine – MDMA (10 µg/L); [4.0-60 µg/L] 6-Monoacetylmorphine (5 µg/L); [2-30 µg/L] Morphine (80 µg/L); [30-450 µg/L] Oxazepam (300 µg/L); [100-1500 µg/L] Temazepam (1000 µg/L); [100-1500 µg/L]	Documented in house method TOX0051 by Protein precipitation and liquid chromatography with triple quadrupole mass spectrometry (LC-QQQ	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of drugs (cut-off limit):	Documented in house (TOX0026) using: - Protein Precipitation - LC-MS/MS	A
	Cathinone Group: 4-methylethcathinone - 4-MEC (10 µg/L) Mephedrone - 4-Methylmethcathinone (10 µg/L)		A
	Cocaine Group: Cocaethylene (10 µg/L) Ecgonine methyl ester - EME (10 µg/L) Norcocaine (10 µg/L)		A
	Opioid Group: 2-ethylidene-1,5-dimethyl-3, 3 diphenylpyrrolidine - EDDP (5 µg/L) 6-Acetylcodeine (1 µg/L) Buprenorphine (1 µg/L) Codeine (10 µg/L) Dihydrocodeine (10 µg/L)		A
	Piperazine Group: 3-Trifluoromethylphenylpiperazine - TFMPP (10 µg/L) Benzylpiperazine - BZP (5µg/L) meta-Chlorophenylpiperazine - m-CPP (5 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit): Amphetamines: Amphetamine (10 µg/L) Butylone (5 µg/L) Methamphetamine (1 µg/L) Methylenedioxyamphetamine (MDA) (10 µg/L) Methylenedioxypyrovalerone (MDPV) (10 µg/L) Methylone (10 µg/L) Naphyrone (10 µg/L) Benzodiazepines: Alprazolam (1µg/L) Desmethyldiazepam (10 µg/L) Phenazepam (10 µg/L)	Documented in house (TOX0026) using: - Protein Precipitation - LC-MS/MS	A
Blood (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range): Amphetamine Group: Amphetamine (10-1000 µg/L) Butylone (5-500 µg/L) Methylenedioxyamphetamine - MDA (10-1000 µg/L) Methylenedioxypyrovalerone - MDPV (10-1000 µg/L) Methylone (10-1000 µg/L) Naphyrone (10-1000 µg/L)	Documented in house (TOX0026) using: - Protein Precipitation - LC-MS/MS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range):	Documented in house (TOX0026) using: - Protein Precipitation - LC-MS/MS	A
	Benzodiazepine Group: Alprazolam (2-100 µg/L) Desmethyldiazepam (10-1000 µg/L)		A
	Cathinone Group: - Mephedrone (10-1000 µg/L)		A
	Cocaine Group: Cocaethylene (10-1000 µg/L) Norcocaine (10-1000 µg/L)		A
	Opioid Group: 2-ethylidene-1,5-dimethyl-3, 3-diphenylpyrrolidine - EDDP (5-500 µg/L) 6-Acetylcodeine (1-100 µg/L) Buprenorphine (1-100 µg/L) Codeine (10-1000 µg/L) Dihydrocodeine (10-1000 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range):	Documented in house (TOX0026) using: - Protein Precipitation - LC-MS/MS	A
	Piperazine Group: 3-Trifluoromethylphenyl-piperazine - TFMPP (10-1000 µg/L) Benzylpiperazine - BZP (5-500 µg/L) meta-Chlorophenylpiperazine - m-CPP (5-500 µg/L)		A
Whole Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood urine): Cannabis Group : 11-Hydroxy-- Delta-9-THC - THC-OH (5 µg/L; 5 µg/L) Cannabidiol (0.5 µg/L; 0.5 µg/L) Cannabinol (0.5; 0.5 µg/L) Delta-9-Tetrahydrocannabinol - THC (0.50 µg/L; 0.5 µg/L) Trans-11-Nor-9-carboxy- Delta-9-THC - THC-COOH (5 µg/L; 5 µg/L)	Documented in house (TOX0024) using: - Solid phase extraction - Gas chromatography tandem mass spectrometry (GC-MS/MS)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES – TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved (cont'd)	Quantitative analysis of the following drugs (concentration range): Cannabis Group: 11-Hydroxy-Δ^{9}-THC - THC-OH (5-250 µg/L) Cannabidiol (0.5-25 µg/L) Cannabinol (0.5-25 µg/L) Delta-9-Tetrahydrocannabinol - THC (0.5-25 µg/L) Trans-11-Nor-9-carboxy-Δ^{9}-THC - THC-COOH (5-250 µg/L)	Documented in house (TOX0024) using: - Solid phase extraction - Gas chromatography tandem mass spectrometry (GC-MS/MS)	
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine): Amphetamines group: Amphetamine (3 µg/L; 15 µg/L) Butylone (1 µg/L; 5 µg/L) Methamphetamine (1 µg/L; 5 µg/L) Methylenedioxyamphetamine (MDA) (1 µg/L;5 µg/L) Methylenedioxymethamphetamine (MDMA) (1 µg/L;5 µg/L) Methylenedioxypyrovalerone (MDPV) (1 µg/L; 5 µg/L) Methylone (1 µg/L; 5 µg/L) Naphyrone (1 µg/L; 5 µg/L) PMA (para-Methoxyamphetamine (1 µg/L; 5 µg/L) PMMA (para-Methoxymethamphetamine) (1 µg/L; 5 µg/L) Methylphenidate (0.1 µg/L; 0.5 µg/L)	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine):	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Benzodiazepines group: 7-Aminoclonazepam (1µg/L; 5µg/L) 7-Aminoflunitrazepam (1 µg/L; 5 µg/L) 7-Aminonitrazepam (1 µg/L; 5 µg/L) Alprazolam (1 µg/L; 5 µg/L) Clonazepam (1 µg/L; 15µg/L) Chlordiazepoxide (3 µg/L; 15 µg/L) Diazepam (3 µg/L; 15 µg/L) Desmethyldiazepam (1 µg/L; 5 µg/L) Flunitrazepam (1 µg/L; 5 µg/L) Lorazepam (5 µg/L; 5 µg/L) Midazolam (0.1 µg/L; 0.5 µg/L) Nitrazepam (1 µg/L; 5 µg/L) Oxazepam (3 µg/L; 15 µg/L) Phenazepam (1 µg/L; 5 µg/L) Temazepam (3 µg/L; 15µg/L) Triazolam (0.5 µg/L; 0.5 µg/L)		A
	Cathinone Group: Cathinone (1 µg/L; 5 µg/L) Mephedrone (1 µg/L; 5 µg/L) Methylethcathinone - 4-MEC (1 µg/L; 5 µg/L) Norpseudoephedrine - Cathine (1 µg/L; 5 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urin) Cont'd:	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Cocaine Group: Benzoylecgonine (3 µg/L; 15 µg/L) Cocaethylene (1 µg/L; 5 µg/L) Cocaine (1 µg/L; 5 µg/L) Ecgonine methyl ester (EME) (5 µg/L; 5 µg/L) Norcocaine (1 µg/L; 5 µg/L)		A A
	Opioids Group: 6-Acetylcodeine (0.1 µg/L; 0.5 µg/L) Buprenorphine (0.5 µg/L; 0.5 µg/L) 6-Monoacetylmorphine (6-MAM) (0.5 µg/L; 0.5 µg/L) Codeine (1 µg/L; 5 µg/L) Dihydrocodeine (1 µg/L; 5 µg/L) Morphine (1 µg/L; 5 µg/L) Methadone (3 µg/L; 155 µg/L) 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine (EDDP) (1 µg/L; 5 µg/L) Pethidine (1 µg/L; 5 µg/L)		A
	Piperazines Group: Benzylpiperazine (BZP) (1 µg/L; 5 µg/L) Meta-Chlorophenylpiperazine (m-CPP) (5 µg/L; 5 µg/L) 3-Trifluoromethylphenyl piperazine (TFMPP) (1 µg/L; 5 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine):	Documented in house (TOX0040) using: - Protein Precipitation - SPE - LC-MS/MS	A
	Erectile Dysfunction Group: Tadalafil (1 µg/L; 5 µg/L) Vardenafil (0.1 µg/L; 0.5 µg/L) Sildenafil (0.5 µg/L; 0.5 µg/L)		A
	Beta-Blocker Group: Propranolol (1 µg/L; 5 µg/L) Atenolol (15 µg/L; 75 µg/L) Metoprolol (1 µg/L; 5 µg/L)		A A
	Miscellaneous Group: Ketamine (1 µg/L; 5 µg/L) Lysergic Acid Diethylamide - LSD (0.1; 0.5 µg/L) Norketamine (1 µg/L; 5 µg/L) Procyclidine (1 µg/L; 5 µg/L)		A
	Analgesic and Anti-inflammatory group: Tramadol (1 µg/L; 5 µg/L) Fentanyl (0.1 µg/L; 0.5 µg/L) Oxycodone (1 µg/L; 5 µg/L) Dextropropoxyphene (1 µg/L; 5 µg/L) Gabapentin (15 µg/L; 75 µg/L) Pregabalin (15 µg/L; 75 µg/L)		A
	Anti-convulsant Group: Carbamazepine (15 µg/L; 75 µg/L) Lamotrigine (15 µg/L; 75 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine):	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Antidepressant group: Dothiepin/Dosulepin (1 µg/L; 5 µg/L) Amitriptyline (1 µg/L; 5 µg/L) Nortriptyline (1 µg/L; 5 µg/L) Citalopram (1 µg/L; 5 µg/L) Duloxetine (5 µg/L; 5 µg/L) Venlafaxine (1 µg/L; 5 µg/L) Paroxetine (1 µg/L; 5 µg/L) Fluoxetine (1 µg/L; 5 µg/L) Fluvoxamine (1 µg/L; 5 µg/L) Sertraline (1 µg/L; 5 µg/L) Trazodone (15 µg/L; 75 µg/L) Mirtazapine (1 µg/L; 5 µg/L)		A
	Anti-Histamine Group: Diphenhydramine (1 µg/L; 5 µg/L) Chlorphenamine (0.1 µg/L; 0.5 µg/L) Promethazine (0.5 µg/L; 0.5 µg/L) Hydroxyzine (1 µg/L; 5 µg/L) Cyclizine (1 µg/L; 5 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved) (cont'd)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine):	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Anti-psychotic Group: Quetiapine (1 µg/L; 5 µg/L) Risperidone (0.1 µg/L; 0.5 µg/L) Olanzapine (5 µg/L; 5 µg/L) Chlorpromazine (5 µg/L; 5 µg/L) Clozapine (1 µg/L; 5 µg/L) Haloperidol (0.1 µg/L; 0.5 µg/L)		A
	Z Drugs Group: Zolpidem (1 µg/L; 5 µg/L) Zopiclone (1 µg/L; 5 µg/L) Zaleplon (0.5 µg/L; 0.5 µg/L)		A
Blood (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range): Amphetamine Group: Amphetamine (15-3000 µg/L) Butylone (5-1000 µg/L) Methylamphetamine (5-1000 µg/L) Methylenedioxyamphetamine - MDA (5-1000 µg/L) Methylenedioxymethamphetamine MDMA (5-1000 µg/L) Methylenedioxypyrovalerone - MDPV (5-1000 µg/L) Methylone (5-1000 µg/L) Methylphenidate (0.5-100 µg/L) Naphyrone (5-1000 µg/L) para-Methoxyamphetamine - PMA (5-1000 µg/L) para-Methoxymethamphetamine - PMMA (5-1000 µg/L)	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range):	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Analgesic and Anti-inflammatory Group: Dextropropoxyphene (5-1000 µg/L) Fentanyl (0.5-100 µg/L) Gabapentin (150-15000 µg/L) Oxycodone (5-1000 µg/L) Pregabalin (75-15000 µg/L) Tramadol (5-1000 µg/L)		A
	Anticonvulsant Group: Lamotrigine (75-7500 µg/L)		A
	Antidepressant group: Amitriptyline (5-1000 µg/L) Citalopram (5-1000 µg/L) Dothiepin/Dosulepin (10-1000 µg/L) Duloxetine (5-1000 µg/L) Fluoxetine (10-1000 µg/L) Mirtazapine (5-500 µg/L) Nortriptyline (5-1000 µg/L) Paroxetine (10-1000 µg/L) Sertraline (5-1000 µg/L) Trazodone (75-15000 µg/L) Venlafaxine (5-1000 µg/L)		A
	Antihistamine Group: Chlorphenamine (0.5-100 µg/L) Cyclizine (5-1000 µg/L) Diphenhydramine (5-1000 µg/L) Hydroxyzine (5-1000 µg/L) Promethazine (0.5-100 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range): (cont'd)	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Antipsychotic Group: Chlorpromazine (10-500 µg/L) Clozapine (5-1000 µg/L) Haloperidol (0.5-100 µg/L) Olanzapine (10-500 µg/L) Quetiapine (5-1000 µg/L) Risperidone (0.5-100 µg/L)		A
	Benzodiazepine Group: 7-Aminoclonazepam (5-1000 µg/L) 7-Aminoflunitrazepam (5-1000 µg/L) 7-Aminonitrazepam (5-1000 µg/L) Alprazolam (5-1000 µg/L) Clonazepam (5-500 µg/L) Chlordiazepoxide (15-1500 µg/L) Desmethyldiazepam (10-1000 µg/L) Diazepam (15-1500 µg/L) Flunitrazepam (5-1000 µg/L) Lorazepam (10-1000 µg/L) Midazolam (1-50 µg/L) Nitrazepam (10-1000 µg/L) Oxazepam (15-1500 µg/L) Phenazepam (5-1000 µg/L) Temazepam (15-3000 µg/L) Triazolam (1-100 µg/L)		A
	Beta-Blocker Group: Atenolol (75-15000 µg/L) Metoprolol (5-1000 µg/L) Propranolol (5-1000 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range): (cont'd)	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Cathinone Group: Cathinone (5-1000 µg/L) Mephedrone (5-1000 µg/L) Methylethcathinone - 4-MEC (5-1000 µg/L)		A
	Cocaine Group: Benzoylecgonine (15-3000 µg/L) Cocaethylene (5-1000 µg/L) Cocaine (5-1000 µg/L) Ecgonine methyl ester - EME (5-1000 µg/L) Norcocaine (5-1000 µg/L)		A
	Erectile Dysfunction Group: Sildenafil (1-50 µg/L) Vardenafil (1-50 µg/L)		A
	Miscellaneous Group: Ketamine (5-1000 µg/L) Lysergic Acid Diethylamide - LSD (0.5-100 µg/L) Procyclidine (5-1000 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range): (cont'd)	Documented in house (TOX0040) using: - Protein Precipitation - Solid Phase Extraction - LC-MS/MS	A
	Opioid Group: 2-ethylidene-1,5-dimethyl-3,3-diphenylpyrrolidine - EDDP (5-1000 µg/L) 6-Acetylcodeine (0.5-50 µg/L) 6-Monoacetylmorphine (6-MAM) (1-50 µg/L) Buprenorphine (1-50 µg/L) Codeine (5-1000 µg/L) Dihydrocodeine (5-1000 µg/L) Methadone (15-1500 µg/L) Morphine (5-1000 µg/L) Pethidine (5-1000 µg/L)		A
	Piperazine Group: 3-Trifluoromethylphenylpiperazine - TFMPP (5-1000 µg/L) Benzylpiperazine - BZP (5-1000 µg/L) meta-Chlorophenylpiperazine - m-CPP (5-1000 µg/L)		A
	Z Drugs Group: Zaleplon (1-100 µg/L) Zolpidem (5-1000 µg/L) Zopiclone (5-1000 µg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Confirmation (above specified cut-off limit) of the following drugs (cut-off limit Blood; Urine):	Documented in house (TOX0041)– using - Liquid/liquid extraction - GC-MS/MS	A
	Analgesic and Anti-inflammatory group: Salicylic acid (5mg/L; 5mg/L) Ibuprofen (5 mg/L; 5 mg/L) Paracetamol (5 mg/L; 5mg/L)		A
	Anti-convulsant Group Valproic Acid (5 mg/L; 5 mg/L) Phenytoin (1 mg/L; 1 mg/L) Primidone (1 mg/L; 0.5mg/L)		A
	Barbiturates Group: Phenobarbital (1 mg/L; 1 mg/L) Amobarbital (1 mg/L; 1 mg/L) Pentobarbital (1 mg/L; 1 mg/L) Secobarbital (1 mg/L; 1 mg/L)		A
	Anti-narcoleptic/Drugs of Abuse: GHB (gamma-hydroxybutyrate) (4.1mg/L;4.1mg/L)		
	Miscellaneous: BHB (Beta-hydroxybutyrate) (5 mg/L; 5 mg/L)		

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range; *urine range if different to blood):	Documented in house (TOX0041)– using - Liquid/liquid extraction - GC-MS/MS	A
	Analgesic and Anti-inflammatory Group: Paracetamol (5-300 mg/L) Salicylic acid (5-300 mg/L)		A
Blood (Preserved, Unpreserved) Urine (Preserved, Unpreserved) (cont'd)	Quantitative analysis of the following drugs (concentration range; *urine range if different to blood):	Documented in house (TOX0041)– using - Liquid/liquid extraction - GC-MS/MS	A
	Anticonvulsant Group Phenytoin (1-60 mg/L) Valproic Acid (10-300 mg/L); (*80-300 mg/L)		
	Barbiturates Group: Amobarbital (1-60 mg/L) Pentobarbital (1-60 mg/L) Phenobarbital (1-60 mg/L) Secobarbital (1-60 mg/L)		A
	Anti-narcoleptic/Drugs of Abuse Group: Gamma-hydroxybutyrate - GHB (8.3-247.8 mg/L)		A
	Miscellaneous Group: Beta-hydroxybutyrate - BHB (10-300 mg/L) (*5-300 mg/L)		A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
BODY FLUIDS and TISSUES - TOXICOLOGY (cont'd)	Forensic Analysis (cont'd)		
Urine (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range) Ibuprofen (5-300 mg/L) Primidone (1-60 mg/L)	Documented in house (TOX0041)– using - Liquid/liquid extraction - GC-MS/MS	A
NOXIOUS SUBSTANCES	Forensic Analysis (cont'd)		
(Acids, Bases and Bleaches)	Qualitative Identification of - Acid - Bases - Bleaches	Documented in house method (COR0001) using -Volumetric analysis using chemical indicators, spot plates and a pH meter.	A, B
DAMAGE	Forensic Analysis		
Damage (Clothing and Fabric material)	Related Opinions and Interpretations		
	Examination, assessment and evaluation of a damage item, comparison of damage with suspected instrument to determine the likelihood the suspected instrument caused the damage.	Documented In-House Methods (FSL0003) using: - visual examination - microscopy - dimensional measurement - Physical fit (FSL0075/FSL0039)	A, B
FIBRES	Recovery of fibres for contingency purposes from clothing and objects	Documented in house method (FSL0010/FSL0055) using - visual examination - low power microscopy - taping - forceps	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FIBRES (cont'd)	Forensic Analysis (cont'd)		
	Search and recovery of fibres from clothing and objects for analysis (including tapings)	Documented in house method (FSL0010/FSL0055) using - visual examination, - low power microscopy and screening - fibre recovery (taping) - mounting	B
	Identification of fibre type	Documented in house method (FRP0085/ FSL0087/FSL0089) using - polarised light microscopy	B
	Comparison of fibres	Documented in house method (FRP0085/ FSL0087/FSL0089) using - stereo microscopy - polarised light microscopy - comparison microscopy	B
	Opinion and Interpretation The evaluation of the significance of any matching features between the suspect and reference/control fibre to determine the likelihood of the suspect fibre coming from a specific source		B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
GLASS	Forensic Analysis (cont'd)		
	Search and recovery of glass fragments from clothing and objects	Documented In-House Methods (FOR0015 / FOR0134) using visual examination and low power microscopy	A, B
	Preparation of glass fragments for SEM Analysis	Documented In-House Method (FSL0066) involving stub preparation.	A, B
MARKS AND IMPRESSIONS	Forensic Analysis		
Footwear	Enhancement of footwear marks recovered from scenes	Documented in house method (FSL0026/FSL0090) using - lighting techniques - ESLA - gel lifting - digital capture photography - digital scanner	A, B
	Production of test marks from suspect footwear	Documented in house method (FSL0025/ FSL0090) using - casting (dental stone/bio foam) - powders (Bristol black/aluminium/light mineral oil/magnetic powder) - digital capture photography	A, B
Footwear mark (physically or image)	Assessment, comparison and evaluation of footwear with scene marks	Documented In-House methods (FSL0025) using visual examination, low power microscopy and dimensional measurements	A, B
	Opinion and Interpretation The evaluation of the significance of any matching and non-matching features between the footwear scene impression and reference/control footwear marks	Documented In-House methods (FSL0025) using - Personal experience - Database (FCD0005) - NFRC system for coding of marks (FCD0003)	A, B
Toolmarks	Enhancement of toolmarks	Documented in house method (FSL0057) using - lighting technique - casting - digital capture/photography	B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MARKS AND IMPRESSIONS (cont'd)			
Toolmarks (cont'd)	Production of test marks from suspect items	Documented in house method (FSL0057) using - casting - digital capture/photography	B
Toolmarks	Comparison of submitted marks or marks made from suspect items with marks left at scene	Documented In-House methods (FSL0057) using visual examination, low power microscopy, comparison microscopy, dimensional measurements and photography	B
	<u>Opinion and Interpretation</u> The evaluation of the significance of any matching and non-matching features between the tool scene impression and reference/control toolmarks	Documented In-House methods (FSL0057) using - Personal experience	B
Marks in blood	Location and enhancement of marks in blood from items recovered from crime scenes	Documented in house method (FSL0026/FSL0070) using - Sulphosalicylic acid Hydrogen Peroxide - methanol and heat fixing acid black 1 and leuco crystal violet	B
PAINT	<u>Forensic Analysis</u>		
	Search and recovery of paint and paint fragments from clothing and objects	Documented in house method (FOR0115 / FOR0134) using - visual examination - low power microscopy	A, B
	Comparison of recovered and control samples	Documented in house method (FSL0061/FSL0062) using - fluorescence - high power microscopy	A, B

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
PAINT (cont'd)	Forensic Analysis (cont'd) Opinion and Interpretation		
	The evaluation of the significance of any matching and non-matching features between the suspect and reference/control paint samples	Documented in house method FOR0052	A, B
ALCOHOL TECHNICAL DEFENCE			
Alcohol Technical Defence (in relation to RTA) for sample matrix including Blood/urine/breath	Estimation of alcohol consumption and elimination with respect to validity of drinking patterns: 1) Effect of alleged post accident alcohol consumption on measured breath/body fluids alcohol levels 2) Effect of alleged spiked drink 3) Back calculations of breath/blood/urine alcohol levels to the time of accident or other incident from 8.3 µg% / 20mg% / 27mg% and above	Documented in house method TOX 0031 using mathematical calculations	A
END			