

Schedule of Accreditation

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United Kingdom Accreditation Service

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

 10308 Accredited to ISO/IEC 17025:2017	Key Forensic Services Ltd Issue No: 024 Issue date: 2021	
	University of Warwick Science Park Sir William Lyons Road Coventry West Midlands CV4 7EZ	Contact: Ali Clark Tel: +44 (0)2477 712246 Fax: +44 (0)2476 323398 E-Mail: qms.team@keyforensic.co.uk Website: www.keyforensic.co.uk

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 University of Warwick Science Park Sir William Lyons Road Coventry West Midlands CV4 7EZ Local contact Ali Clark Tel: +44 (0)2477 712246 Fax: +44 (0)2476 323398 E-Mail: qms.team@keyforensic.co.uk Website: www.keyforensic.co.uk	Forensic Analysis Quality Management	A
Address 207B and C Cavendish Place Birchwood Park Warrington WA3 6WU Local contact Ali Clark Tel: +44 (0)2477 712246 Fax: +44 (0)2476 323398 E-Mail: info@keyforensic.co.uk Website: www.keyforensic.co.uk	Forensic Analysis	B
Address 4 Penfold Drive Wymondham Norfolk NR18 OWZ Local contact Ali Clark Tel: +44 (0)2477 712246 Fax: +44 (0)2476 323398 E-Mail: qms.team@keyforensic.co.uk Website: www.keyforensic.co.uk	Forensic Analysis DNA Profiling	C



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DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
ALCOHOL BEVERAGES	<u>Forensic Testing</u>	The organisation has demonstrated adherence to the relevant requirements of the Forensic Science Regulators Code of Practice and Conduct in relation to their Forensic Activities	A, B, C
	<u>Forensic Analysis</u> Detection and quantitation of alcohol content in submitted beverages	Documented in house method using GC-FID	A
BODY FLUIDS and TISSUES	<u>Forensic Analysis</u>		
Blood - Whole - Stains	Short Tandem Repeat (STR)/Y Chromosome DNA profiling for forensic analysis of:	Documented In-House Methods using manual extraction (KFSP124 & 154)	C
Semen - Whole - Azoospermic	- Elimination Database samples (VED, SED, PED) - Crime Scene Samples meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	- Qiagen - SwabSolution™ SwabSolution™ (reference buccal swabs only)	
Saliva - Whole - Stains - Swabs (buccal cells)	- Subject Samples (PACE and Volunteer) meeting the requirements of the Custodian for the Purpose of Supply to the National DNA Database	Documented In-House Methods using Manual quantification (KFSP132 & 187) - Plexor HY - ABI 7500	
Hair Cellular Material	- Environmental Monitoring Samples	Documented In-House Methods using Manual amplification (PCR) and the following chemistry: - ESI 17 - NGM Select - Powerplex Y23 (Y chromosome only) - SwabSolution™ (reference buccal swabs only)	
Body Tissue - Nail - Bone - Teeth		Documented In-House Methods using Electrophoresis (KFSP219 & 186) Applied Biosystems 3500XL and 3130XL Genetic Analyser©	C



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BODY FLUIDS and TISSUES (cont'd) - Muscle	<u>Forensic Analysis</u> (cont'd) Short Tandem Repeat (STR) DNA profiling for forensic analysis of: Crime Scene Samples Subject Samples	Documented In-House Methods using manual extraction - Qiagen	C
	Crime Scene Samples Subject Samples ctd	Documented In-House Methods using Manual quantification (KFSP187) - Plexor HY - ABI 7500	C
		Documented In-House Methods using Manual amplification (PCR) and the following chemistry: - ESI 17 - NGM Select - Powerplex Y23 (Y chromosome only)	C
		Documented In-House Methods using Electrophoresis (KFSP219 & 186) - Applied Biosystems 3500XL Genetic Analyser© - Applied Biosystems 3130XL Genetic Analyser©	C
	<u>Related Opinions and Interpretation</u> 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 (KFSP217 & 218 – GMIDX, KFSP268, 271, 272 – STR Mix, KFSP228 - YHRD) - Genetic Characterisation <ul style="list-style-type: none"> o GMIDX (B and C only) o STRMix V2.6 & V2.7 o Y HRD (C only) 	A, B, C



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<p>BODY FLUIDS and TISSUES (cont'd)</p> <p>Saliva</p> <ul style="list-style-type: none"> - Swabs (buccal cells) - Whole - FTA (Fast Technology for Analysis of nucleic acids) paper for saliva <p>Blood</p> <ul style="list-style-type: none"> - FTA (Fast Technology for Analysis of nucleic acids) paper for blood - Whole - Swabs <p>Semen</p> <ul style="list-style-type: none"> - Whole - Azospermic <p>Cellular Material</p> <ul style="list-style-type: none"> - Surrogate reference samples (e.g. toothbrushes and razors) <p>Hair</p> <p>Body Tissue</p> <ul style="list-style-type: none"> - Nail - Bone - Teeth <p>Muscle</p>	<p><u>Relationship Analysis</u></p> <p>Short Tandem Repeat (STR) /Y Chromosome DNA profiling for relationship testing for:</p> <ul style="list-style-type: none"> - Paternity - Maternity - Sibling - Extended relationships (Aunt/Uncle, Niece/Nephew, Grandparent, Grandchild and cousins) 	<p>Documented In-House Methods (KFSP124, 139, 133, 199, 210) using Manual extraction</p> <ul style="list-style-type: none"> - QiaAmp - SwabSolution (Saliva Swabs, buccal cells only) <p>Documented In-House Method (KFSP133) using Manual amplification and the following chemistry:</p> <ul style="list-style-type: none"> - Fusion - SwabSolution (Saliva Swabs, buccal cells only) - Powerplex Y23 - ESI 17 <p>Documented In-House Method (KFSP186) using Electrophoresis Applied Biosystems 3500XL and 3130XL Genetic Analyser©</p>	C
	<p><u>Related Opinions and Interpretation</u></p> <p>Comparison, interpretation and statistical analysis of DNA profiles against compatible DNA Profile information from within submitted cases</p>	<p>Documented In-House method (KFSP210, 214 and 228) Genetic Characterisation using</p> <ul style="list-style-type: none"> - GMID-X - GenoProof v3 - Y HRD 	A, B, C



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BODY FLUIDS and TISSUES (cont'd) Any material	<u>Forensic Analysis</u> (cont'd) Searching for - Semen - Saliva - Blood - hairs	Documented in house methods KFSP140, 142 and 145 using - visual examination - low power microscopy - high power microscopy - chemical testing (see below)	A, B, C
Any material	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: - semen - Saliva - Blood - cellular material - hairs	Documented in house methods KFSP 255, 115, 140, 142, 143, 144 and 145 142 and 159 using - cutting, - swabbing of stains - extraction of stained materials - extraction of swabs, - minitaping as appropriate	A, B, C
Blood	Presumptive testing for Blood via detection of: - Peroxidase - Human Haemoglobin	Documented in house method KFSP 142 using - Visual Examination - LMG (Leucomalachite green) - KM (Kastle Meyer) - Bluestar - luminol - leuco-crystal violet (LCV)	A, B, C B B B
Blood	<u>Related Opinions and Interpretations</u> Identification, interpretation and recording of blood patterns (BPA) on clothing and other items examined at the laboratory	Documented In-House Method KFSP 142 & 172 using: - visual examination - low power microscopy	A, B, C



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BODY FLUIDS and TISSUES (cont'd)	<u>Forensic Analysis (cont'd)</u>		
Semen	Presumptive testing for seminal fluid, via detection of: <ul style="list-style-type: none"> - Acid Phosphatase - Choline - Prostate Specific Antigen (PSA) 	Documented In-House Methods KFSP 255 and 144 using: <ul style="list-style-type: none"> - Visual Examination - Alternative light sources - Acid phosphatase detection (colour reaction) - Choline detection by Florence Iodine test - PSA detection by immunoassay (C only) 	
Semen	Confirmatory testing for seminal fluid via identification of: <ul style="list-style-type: none"> - Spermatozoa 	Documented In-House Methods KFSP 255 and 144 using: <ul style="list-style-type: none"> - High power microscopy - Haematoxylin and Eosin staining 	A, B, C
Saliva	Presumptive testing for saliva via detection of: <ul style="list-style-type: none"> - Amylase 	Documented In-House Method KFSP 143 using: <ul style="list-style-type: none"> - Visual examination - Phadebas paper 	A, B, C
DAMAGE	<u>Forensic Analysis</u>		
Damage (Clothing and Fabric material)	<u>Related Opinions and Interpretations</u>		
	Examination, assessment and evaluation of a damage item, comparison of damage with suspected instrument (excluding firearms) to determine the likelihood the suspected instrument caused the damage.	Documented In-House Methods KFSP098 using: <ul style="list-style-type: none"> - visual examination - microscopy 	A, B



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TOXICOLOGY BODY FLUIDS Blood/Urine (Preserved, Unpreserved)	<u>Forensic Analysis</u> Detection and quantification of alcohol in relation to the Road Traffic Act (>20-400mg/100ml)	Documented in house method KFSP090 using - GC-FID	A
Blood (preserved)	Detection and quantification 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: <u>(Limit) and (Calibration Range):</u> Amphetamine (250µg/l) (25-1250 µg/l) Benzoyllecgonine (50µg/l) (25-1000 µg/l) Clonazepam (50µg/l) (20-400 µg/l) Cocaine (10µg/l) (5-500 µg/l) Diazepam (550µg/l) (100-2000 µg/l) Flunitrazepam (300µg/l) (100-2000 µg/l) Ketamine (20µg/l) (10-1000 µg/l) Lorazepam (100µg/l) (20-400 µg/l) Lysergic Acid Diethylamide (LSD) (1µg/L) (0.5-10 µg/l) Methadone (500µg/L) (10-2500 µg/l) Methylamphetamine (10µg/l) (5-1000 µg/l) Methylenedioxymethamphetamine (MDMA) (10µg/l) (5-1000 µg/l) 6-Monoacetylmorphine (5µg/l); (2.5-75 µg/l) Morphine (80µg/l) (25-1000 µg/l) Oxazepam (300µg/l) (100-2000 µg/l) Temazepam (1000µg/l) (100-2000 µg/l)	Documented in house method KFSP 238 using: Protein pPrecipitation and LC-MS-MS	B



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TOXICOLOGY BODY FLUIDS (cont'd)	<u>Forensic Analysis (cont'd)</u>		
Blood (preserved)	Detection and quantification 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: <u>(Limit) and (Calibration Range):</u> Delta-9-Tetrahydrocannabinol (THC) (2 µg/L); (0.5-15 µg/l)	Documented in house methods (ref KFSP236) using liquid-liquid extraction and: - Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	B
Blood (Preserved/Unpreserved)	Presumptive screening for the presence of the following drug or drug group (cut-off limit) Buprenorphine (0.5 µg/l)	Documented in house method (ref KFSP232) using: - Liquid enzyme immunoassay (EIA) / Enzyme-linked immunosorbent (ELISA)	B
Blood and Urine (Preserved/Unpreserved)	Detection and quantitation of fluoride	Documented in house (ref KFSW 267) using Ion selective electrode	B



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TOXICOLOGY BODY FLUIDS (cont'd) Blood (Preserved/Unpreserved)	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Quantitative analysis of the following drugs (concentration range):</p> <p>Amphetamines Group: Amphetamine (25-1250 µg/l) Methylamphetamine (5-1000 µg/l) Methylenedioxymethamphetamine (MDMA) (5-1000 µg/l) Methyldioxyamphetamine (MDA) (5-1000 µg/l) Methylenedioxyethylamphetamine (MDEA) (5-1000 µg/l)</p> <p>Benzodiazepines Group: Alprazolam (100-2000 µg/l) Clonazepam (20-400 µg/l) Diazepam (100-2000 µg/l) Flunitrazepam (100-2000 µg/l) Lorazepam (20-400 µg/l) Midazolam (100-2000 µg/l) Nitrazepam (100-2000 µg/l) Nordiazepam (100-2000 µg/l) Oxazepam (100-2000 µg/l) Phenazepam (100-2000 µg/l) Temazepam (100-2000 µg/l)</p> <p>Cocaine group: Cocaine (Preserved only) (5-500 µg/L) Benzoylecgonine (25-1000 µg/L) Cocaethylene (Preserved only) (5-500 µg/L)</p> <p>Opioids Group: Codeine (25-1000 µg/l) Dihydrocodeine (25-1000 µg/l) Morphine (25-1000 µg/l) 6-monoacetylmorphine (6-MAM) (2.5-75 µg/l) Methadone (100-2500 µg/l)</p>	<p>Documented in house method (ref KFSP238) using protein precipitation and Liquid chromatography tandem mass-spectrometry (LC-MS/MS)</p>	<p>B</p> <p>B</p> <p>B</p> <p>B</p>



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TOXICOLOGY BODY FLUIDS (cont'd)	Forensic Analysis (cont'd)		
Blood (Preserved/Unpreserved)	Quantitative analysis of the following drugs (concentration range): Z Drugs group: Zopiclone (5-500 µg/l) Zaleplon (5-500 µg/l) Zolpidem (5-500 µg/l) Ketamine (10-1000 µg/l) Norketamine (10-1000 µg/l) Lysergic Acid Diethylamide (LSD) (0.5-10 µg/l)	Documented in house method (ref KFSP238) using Protein Precipitation and Liquid chromatography tandem mass-spectrometry (LC-MS/MS)	B B B
Blood (Preserved/Unpreserved)	Quantitative analysis of the following drugs (concentration range): Cannabinoids group: Delta-9-tetrahydrocannabinol (THC) (0.5-15 µg/l) 11-hydroxy-Delta-9-tetrahydrocannabinol (11-OH-THC) (0.5-15 µg/l) 11-nor-Delta-9-tetrahydrocannabinol-9-carboxylic acid (11-COOH-THC)(5-150 µg/l)	Documented in house methods KFSP236 using liquid-liquid extraction and LC-MS/MS	B B



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TOXICOLOGY BODY FLUIDS (cont'd) Blood (Preserved/Unpreserved)	Forensic Analysis (cont'd) Quantitative analysis of the following drugs (concentration range): (cont'd) Cathinones group: Mephedrone (4-methylmethcathinone) (50-1000µg/l) 4-MEC (4-methylethcathinone) Methylone (50-1000 µg/l) Naphyrone (50-1000 µg/l) Butylone (50-1000 µg/l) MDPV (3,4-methylenedioxypropylone) (50-1000 µg/l) Cathinone (50-1000 µg/l) Methcathinone (50-1000 µg/l) Methedrone (50-1000 µg/l) Pentylone (50-1000 µg/l) Piperazines group: BZP (1-benzylpiperazine) (50-1000 µg/l) TFMPP (1-[3-Trifluoromethyl]phenyl]piperazine) (50-1000 µg/l) m-CPP (meta-chlorophenylpiperazine) (50-1000µg/l)	Documented in house method KFSP 239 using: Protein precipitation and LC-MS-MS	B
	Urine (Preserved/Unpreserved)		Presumptive screening for the presence of the following drug (s) or drug group(s) (cut-off limit) Amphetamines (150 µg/l) Methamphetamines (150 µg/l) Cocaine metabolite (50 µg/l) Cannabinoids (10 µg/l) Methadone (40 µg/l) Opiates (100 µg/l l) Benzodiazepines (50 µg/l) Ketamine (10 µg/l)



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TOXICOLOGY BODY FLUIDS (cont'd) Urine (Preserved/Unpreserved)	<u>Forensic Analysis</u> (cont'd) Confirmation (above specified cut-off limit) of the following drugs (cut-off limit): Cannabinoids group: 11-nor-Delta-9-tetrahydrocannabinol-9-carboxylic acid (11-COOH-THC) – (0.1µg/l)	Documented in house method KFSP 236 using: - Protein precipitation and LC-MS-MS	B
	Cocaine group: Cocaine (1.05 µg/l) Benzoylecgonine (1.36 µg/l) Cocaethylene (0.73 µg/l)	Documented in house method KFSP 237 using: - Protein precipitation and LC-MS-MS	B
	Opiates/Opioids Group: 6-monoacetylmorphine (6-MAM) (1.5 µg/l) Morphine (0.74 µg/l) Dihydrocodeine (1.04 µg/l) Methadone (0.99 µg/l) Codeine (2.66 µg/l)		B
	Benzodiazepines: Diazepam (0.97 µg/l) Nordiazepam (1.34 µg/l) Oxazepam (4.86 µg/l) Temazepam (0.91 µg/l) Alprazolam (2.06 µg/l) Phenazepam (2.77 µg/l)		B
	Ketamine (1.47 µg/l)		B
	Amphetamine and related compounds: Amphetamine (1.86 µg/l) Methylamphetamine (2.72 µg/l) Methylenedioxymethylamphetamine (MDMA) (1.66 µg/l) Methyldioxyamphetamine (MDA) (3.71 µg/l) Methylenedioxyethylamphetamine (MDEA) (2.44 µg/l)		B



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<p>TOXICOLOGY BODY FLUIDS (cont'd) Urine (Preserved/Unpreserved)</p>	<p><u>Forensic Analysis</u> (cont'd)</p> <p>Confirmation (above specified cut-off limit) of the following drugs (cut-off limit):</p> <p>Cathinones group: Mephedrone (4-methylmethcathinone) (1.32 µg/l) 4-MEC (4-methylethcathinone) (2.04 µg/l) Methylone (0.63 µg/l) Naphyrone (0.41 µg/l) Butylone (1.40 µg/l) MDPV (3,4-methylenedioxypropylvalerone) (0.76 µg/l) Cathinone (1.27 µg/l) Methcathinone (0.76 µg/l) Methedrone (0.49 µg/l) Pentylone (0.92 µg/l)</p> <p>Piperazines group: BZP (1-benzylpiperazine) (0.52 µg/l) TFMPP (1-[3-Trifluoromethyl)phenyl]piperazine) (0.79 µg/l) m-CPP (meta-chlorophenylpiperazine) (1.09 µg/l)</p>	<p>Documented in house method KFSP 239 using:</p> <ul style="list-style-type: none"> - Protein precipitation and LC-MS-MS 	<p style="text-align: center;">B</p> <p style="text-align: center;">B</p>



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DRUGS (and materials suspected of containing drugs)	<u>Legal classification of controlled drugs (Misuse of Drugs Act 1971)</u>		
	Identification of cannabis, cannabis resin and cannabis products	Documented in house method KFSP 203 using : - Microscopy - TLC - GC-MS	A
	Identification of cannabis plants	Documented in house method KFSP 203 using - Microscopy	A
	Identification of: - Opiates - Cocaine - Amphetamine - Ecstasy - LSD (by TLC only) - Psilocybin/Psilocin (by TLC only)	Documented in house method KFSP 203 using - spot tests(Marquis Reagent and Cobalt Thiocyanete Reagent) (KFSP194) - microscopy - TLC (KFSP202) - FTIR (KFSP193) - GC-MS (KFSP190)	A
	Identification of : - Mephedrone - Methylethcathinone - TMPP - Methylamphetamine Temazep	Documented In house method KFSP 190 using - GC-MS	A
	Identification of : - Buprenorphine - Ketamine - Tramadol - Zolpidem	Documented In house method KFSP 190 using GC-MS	A
The identification of additives and diluents commonly associated with drugs: - Caffeine - Lignocaine - Phenacetin - Levamisole - Benzocaine - Paracetamol	Documented in house method KFSP 190 using - GC-MS	A	



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DRUGS (and materials suspected of containing drugs)	<u>Legal classification of controlled drugs (Misuse of Drugs Act 1971)</u> Quantification of : - Amphetamine - Cocaine - Diamorphine - MDMA	Documented in house methods KFSP 204 using - HPLC	A
FIBRES	<u>Forensic Analysis (cont'd)</u> Recovery of fibres for contingency purposes from clothing and objects	Documented in house method KFSP037 using - visual examination - low power microscopy - taping - Mounting	A, B
Natural and man made fibres	Search and recovery of fibres from clothing and objects for analysis	Documented in house method KFSP037 using - Visual Examination - Low power microscopy - taping	A
Natural and man-made fibres	Identification of fibre type	Documented in house method KFSP037 using - FTIR - polarised light microscopy	A
Natural and man made fibres	Comparison of fibres	Documented in house method KFSP037 using - comparison microscopy - TLC	A
Natural and man made fibres	Spectroscopic analysis of fibres in the visible range for the purpose of comparison of fibres	Documented in house method KFSP037 using - microspectrophotometry (visible light)	A,
	<u>Opinion and Interpretation</u> 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	Documented in house method	A



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FIREARMS	<u>Forensic Analysis</u> Examination of discharged ammunition components to determine the number of guns used.	Documented In house methods KFSP263 using: - comparison microscopy	B
	Examination of cartridges to determine if ammunition has been loaded into a firearm	Documented In house methods KFSP263 using : - Microscopy - comparison microscopy	B
	Comparison of spent ammunition to suspect guns	Documented In house methods KFSP263 using: - comparison microscopy	B
	<u>Opinion and Interpretation</u> The evaluation of features between recovered and reference/control ammunition.	Documented In-House methods using - Personal experience - Reference collections	B
Ammunition	Ammunition and component identification and legal classification	Documented In house method KFSP069 using : - Weighing - length measurement - use of known samples or standard reference data.	B
Firearms	Firearm and firearm component part identification and legal classification (Firearms Act 1968)	Documented in house method KFSP069 using - visual examination - physical properties and features - use of reference sources and publications	B
	Trigger pull measurement	Documented in house method KFSP070 using - weights	B



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Key Forensic Services Ltd
Issue No: 024 Issue date: 06 September 2021

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
FIREARMS (cont'd)	Range of fire determination	Documented in house method KFSP072 and KFSP087 using <ul style="list-style-type: none"> - appropriate weapon/ ammunition combination & target material to assess range of fire - Comparison of test patterns to exhibits 	B
	<u>Opinion and Interpretation</u> The evaluation of features between recovered and reference/control shot patterns to determine range of fire	Documented In-House methods using <ul style="list-style-type: none"> - Personal experience - Simulation 	B
Firearms	Test Firing to assess the functionality of weapons and/or ammunition.	Documented In house method KFSP068 using suspect or reference guns and ammunition	B
Firearms	Determination of Kinetic Energy of projectiles	Documented In house method (KFSP073) using SKAN chronograph and balance	B
Firearms	Test Firing to generate test samples of ammunition for comparison to exhibits	Documented In house method KFSP068 using suspect or reference guns and ammunition	B
Firearms	Test Firing to generate test samples of ammunition for inclusion in the NABIS database	Documented In house methods KFSP068 meeting the requirements of NABIS	B
Articles suspected of being damaged by firearms	Presumptive Testing for the presence of Lead	Documented In house method (KFSP291 & KFSW050) using spot tests (Sodium Rhodizonate) for lead	B
Articles suspected of being damaged by firearms	Presumptive Testing for the presence of Copper	Documented In house method (KFSP291 & KFSW050) using spot tests for (DTO) Copper	B
Electrical Shock Devices	Identification, classification and function test	Documented In house method (KFSP303 & KFSP609) using visual examination and function testing.	B
Any firearm	Accidental discharge testing	In house method (KFSP070) using impact and drop tests	B



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GUN SHOT RESIDUE (GSR / FDR)	<u>Forensic Analysis</u> Recovery of in-organic gun shot residues (primer)	Documented in house method KFSP080 using - carbon coated aluminium stubs	A
Recovered Material	Identification of in-organic gun shot residues (primer)	Documented in house method KFSP034 using - SEM/EDS	A
GLASS	<u>Forensic Analysis (cont'd)</u> Search and Recovery of glass fragments from clothing and objects	Documented in house method KFSP047 using - visual examination microscopy - appropriate recovery: - Shaking - Brushing - Direct removal	A
	Characterisation of glass fragments	Documented in house method KFSP047 & KFSP036 using - refractive index determination by oil immersion (GRIM) - re-annealing by tube furnace - low power microscopy and UV illumination, - elemental analysis by SEM-EDX	A
	Comparison of recovered glass fragments to control samples recovered from crime scenes	Documented in house method KFSP047 and KFSP036	A
	<u>Opinion and Interpretation</u> The evaluation of the significance of matching and non-matching features between the suspect and reference/control samples	Documented in house method KFSP047	A



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LACHRYMATORS	<u>Forensic Analysis (cont'd)</u>		
	<u>Recovery of lachrymators material</u>	Documented in house methods KFSP180 using <ul style="list-style-type: none"> - Activation - Direct sampling 	B
	Identification of <ul style="list-style-type: none"> - Ortho-chlorobenzalmonitrile (CS) - Alpha-chloroacetophenone (CN) - Pelargonic acid vanillylamide (PAVA) - Capsaicin (Pepper Spray) 	Documented in house method KFSP180 using <ul style="list-style-type: none"> - GCMS 	A
	Legal Classification of devices (Firearms Act 1968)		B
	Analysis to determine the nature of the contents, functionality of device and whether the item fits the description of a Prohibited Weapon		B
MARKS AND IMPRESSIONS	<u>Forensic Analysis</u>		
Footwear	Coding of Custody prints taken from suspect footwear using gross features	Documented in house method KFSP067	A
	Enhancement of footwear marks recovered from scenes	Documented in house method KFSP032 & KFSP019 using <ul style="list-style-type: none"> - lighting techniques - powders - ESLA - gel lifting - gel scanner - digital capture photography 	A



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MARKS AND IMPRESSIONS (cont'd)	<u>Forensic Analysis</u> (cont'd)		
Footwear (cont'd)	Production of test marks from suspect footwear	Documented in house method KFSP019 using <ul style="list-style-type: none"> - Dynamic Oil and magna Powder Method - Static Powdering Methods (using Aluminium flake / black granular powder) - 3-D test impressions (using Bio Foam) 	A
Footwear mark (physically or image)	Assessment, Comparison and evaluation of footwear with scene marks	Documented In-House methods KFSP019 using visual examination and low power microscopy and dimensional measurements	A
	<u>Opinion and Interpretation</u> 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 KFSP019 using <ul style="list-style-type: none"> - Personal experience - Local test mark reference database 	A
Packaging (Plastic bags and clingfilm typically associated with drugs packaging)	Examination to determine the presence of striation marks and manufacturing features	Documented in house method KFSP205 using <ul style="list-style-type: none"> - dimensional measurement - visual comparison - polarised light - shadowgraph 	A
MARKS AND IMPRESSIONS (cont'd)	<u>Opinions and Interpretation</u> The evaluation of the significance of any matching features between the recovered packaging to determine if they are from the same source	Documented In-House method	A



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<p>DRUGS</p> <p>Paper Banknotes</p>	<p>Legal classification of controlled drugs (Misuse of Drugs Act 1971) and substances</p> <p>Detection and identification of:</p> <p>Amphetamines Group:</p> <ul style="list-style-type: none"> - Amphetamine - Methylenedioxymethylamphetamine (MDMA) - Methylamphetamine <p>Benzodiazepines Group:</p> <ul style="list-style-type: none"> - Diazepam - Temazepam <p>Cocaine Group:</p> <ul style="list-style-type: none"> - Cocaine <p>Cannabis Group:</p> <ul style="list-style-type: none"> - Delta-9-tetrahydrocannabinol (THC) <p>Methadone Group:</p> <ul style="list-style-type: none"> - Methadone <p>Opiates Group:</p> <ul style="list-style-type: none"> - Codeine - Diamorphine - Morphine - Fentanyl <p>Phenacetin</p> <p>Aspirin</p> <p>Paracetamol</p>	<p>Documented in House Method (KFSP333) using thermal desorption MS-MS</p>	<p>A</p>



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<p>DRUGS (cont'd)</p> <p>Swabs</p> <p>(taken of miscellaneous items, including but not limited to items such as: mobile phones, items of clothing, weighing scales, polymer banknotes)</p>	<p>Recovery and identification of drug traces from drug paraphernalia and packaging</p> <p>Detection and identification of:</p> <p>Amphetamines Group:</p> <ul style="list-style-type: none"> - Amphetamine - Methylenedioxymethylamph-etamine (MDMA) - Methylamphetamine <p>Benzodiazepines Group:</p> <ul style="list-style-type: none"> - Diazepam - Temazepam <p>Cocaine Group:</p> <ul style="list-style-type: none"> - Cocaine <p>Cannabis Group:</p> <ul style="list-style-type: none"> - Delta-9-tetrahydrocannabinol (THC) <p>Methadone Group:</p> <ul style="list-style-type: none"> - Methadone <p>Opiates Group:</p> <ul style="list-style-type: none"> - Codeine - Diamorphine - Morphine - Fentanyl <p>Phenacetin</p> <p>Aspirin</p> <p>Paracetamol</p>	<p>Documented in House Method (KFSP333) using thermal desorption MS MS</p>	<p align="center">A</p>
<p>END</p>			