Schedule of Accreditation

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Hampshire Scientific Service

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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 Hyde Park Road Southsea Hampshire PO5 4LL	**Local contact** Jennifer Green-Lewis Arran Cobley Heather Thomaslan Jerrum Tel: +44 (0)370 779 0001 Email: HSS@hants.gov.uk	Asbestos – All Support Functions Toxicology/Forensic Analysis Asbestos Food Chemistry Chemical Testing Microbiological Food and Water Testing Toy and Product Safety Tests	A
Address 6-8 Hampshire Terrace Portsmouth PO1 2QF	**Local Contact** David Minton Tel: +44 (0)370 779 0001 Email: fsqualitymanagement@hampshire.police.uk	Forensic Analysis	E
Address Fingerprint Bureau Herschel House Southern Support and Training Headquarters Hamble Lane Eastleigh SO31 4TS	**Local Contact** David Minton Tel +44 (0)370 779 0001 Email: fsqualitymanagement@hampshire.police.uk	Forensic Analysis	F

Site activities performed away from the locations listed above:

Location details		Activity	Location code
Client Premises	Arran Cobley (Asbestos)	Health and Hygiene	B

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
HEALTH AND HYGIENE			
	Health and Hygiene	Health and Safety Executive Asbestos: The Analysts' Guide (HSG 248) - 2021	
ASBESTOS FIBRES IN AIR	Sampling of air for fibre counting	Documented In-House Method ASB/SOP/OM8 based on HSG 248	A, B
	Fibre counting	Documented In-House Method ASB/SOP/OM8, Membrane Filter Method using Phase Contrast Microscopy (PCM) based on HSG 248	A, B
	4 Stage Clearance Process	Documented In-House Method ASB/SOP/OM8, Membrane Filter Method using Phase Contrast Microscopy (PCM) based on HSG 248	B
ASBESTOS IN BULK MATERIALS including materials and products suspected of containing asbestos	Sampling of bulk materials for subsequent identification of asbestos	Documented In-House Method ASB/SOP/OM6 based on HSG 248	B
	Identification of: Amosite Chrysotile Crocidolite Fibrous Actinolite Fibrous Anthophyllite Fibrous Tremolite	Documented In-House Method ASB/SOP/OM7 using stereo-microscopy, polarised light optical microscopy and dispersion staining based on HSG 248	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
CHEMICAL TESTING			
FOOD	Chemical Tests *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
BEVERAGES - ALCOHOLIC	*Alcohol	(1) Method FOD/SOP/05.101 using specific gravity and obscuration (2) Method No 05.106 using GC/FID (3) Method FOD/SOP/ 05.109 using distillation followed by specific gravity	A
	***Congeners:** Ethyl acetate Methanol 2 Methyl Propan-1-ol 2 Methyl Butan-1-ol 3 Methyl Butan-1-ol Propan-1-ol	Method FOD/SOP/ 55.009 using (GC/FID)	A
Spirits and Alcoholic Beverages up to 60 %v/v	*Ethanol	Method 05.111 using GC - FID detector	A
	***Preservatives:** Sulphur Dioxide	(1) Method No 50.651 using the Shipton Method (2) Method No 50.650 (Qualitative) the Parkes Method	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd) BEVERAGES - NON-ALCOHOLIC	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
Soft Drinks	***Additives:** Acesulfam-K Aspartame Benzoic acid Caffeine Saccharin Sorbic acid	Method No 75.007 using HPLC/UV	A
	***Preservatives:** Benzoic Acid	Method No 75.003 using HPLC/UV detection	A
	*Sorbic Acid	Method No 75.003 using HPLC/UV detection	A
	*Soluble solids	Method No 25.080 based on EEC Commission Regulation EU 974/2014using refractometry	A
CEREAL AND CEREAL PRODUCTS	*Deoxynivalenol	Method FOD/SOP/ 75.047 using immunoaffinity column clean-up and HPLC-UV)	A
CEREAL AND CEREAL PRODUCTS (cont'd)	*Zearalenone	Method No 75.046 using immunoaffinity column clean-up and HPLC-fluorescence	A
	*Total Aflatoxins: Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	Method No 75.044 using HPLC/fluorescence	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
CONFECTIONERY AND HIGH SUGAR CONTENT PRODUCTS			
Cocoa and Chocolate products	*Butterfat in fat	Method No 09.010 using GC/FID	A
	*Theobromine	Method FOD/SOP/02.210 using HPLC/UV	A
	*Fatty Acid Composition Saturates Mono-unsaturates Poly-unsaturates Trans fatty acids	Method No 09.099 using GC/FID	A
PRESERVES Jam	*Soluble solids	Method No 25.080 using refractometry	A
SUGAR and SUGAR CONFECTIONERY	*Butterfat in fat	Method No 09.010 using GC/FID	A
HONEY and HONEY PRODUCTS	*Acidity	Method No 01.018 using Potentiometric titration	A
	*Hydroxymethylfurfural	(1) Method FOD/SOP/ 05.235 (HPLC)	A
	*Moisture	Method No 25.076 using Refractometry	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
DAIRY PRODUCTS	*Butterfat in fat	Method No 09.010 using GC/FID	A
	*Fat	Method No 09.025 using Werner Schmidt and Method No 09.020 using alkaline hydrolysis	A
	*Fatty Acid Composition Saturates Mono-unsaturates Poly-unsaturates Trans fatty acids	Method No 09.099 using GC/FID	A
MILK AND MILK PRODUCTS	*Butterfat in fat	Method No 09.010 using GC/FID	A
	*Milk (Allergen)	FOD-SOP-75.056 by R-Biopharm Ridascreen Fast Milk Test Kit	A
FISH AND FISH PRODUCTS	*Ash	Method No 25.030 using gravimetry	A
	*Histamine	Method No 20.407 using HPLC/UV	A
	*Moisture	Method FOD/SOP/ 25.078 based on BS 4401:Part 3:1970(1986)	A
FRUIT PRODUCTS and PROCESSED FRUIT			
Fruit Products	*Dry soluble residue (soluble solids)	Method No 25.080 using refractometry	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
MEAT AND MEAT PRODUCTS			
Fresh or Frozen	*Beta-HADH activity (Fresh or Frozen)	Method No 10.159 using UV Spectrophotometry	A
	*Ash	Method No 25.030 using Gravimetry	A
	*Fat and free fat	Method Nos 09.025 using Werner-Schmidt Method	A
	*Hydroxyproline	Method No 20.420/21 using acid hydrolysis and spectophotometry	A
	*Moisture	Method FOD/SOP/ 25.078 based on BS 4401:Part 3:1970(1986)	A
NUTS and NUT PRODUCTS	***Total Aflatoxins:** Aflatoxin B1 Aflatoxin B2 Aflatoxin G1 Aflatoxin G2	Method No 75.044 using HPLC/fluorescence	A
OILS and FATS	*Butterfat in fat	Method No 09.010 using GC/FID	A
OILS and FATS (cont'd)	*Fatty Acid Composition Saturates Mono-unsaturates Poly-unsaturates Trans fatty acids	Method No 09.099 using GC/FID	A
	*Fatty acid profile	Method No 09.099 using GLC	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
POULTRY AND POULTRY PRODUCTS	*Ash	Method No 25.030 using Gravimetry	A
	*HADH Activity	Method No 10.159 (Enzymic Techniques) using UV Spectrophotometry	A
	*Moisture	Method FOD/SOP/ 25.078 using gravimetry	A
VEGETABLES	*Soluble solids (canned and processed)	Method No 25.080 using refractometry	A
Food and Food products (specified where required)	*Additives Contaminants Nutritional components	Method No 91.127, Flexible scope for the development/ modification of method for food analysis using the techniques: HPLC GC with FID UV/Vis Spectrophotometry ELISA	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
	*Alcohol	Method No 05.110 using GC/FID	A
Alcoholic Beverages, Baby Food, Raw and Roasted Coffee and Cocoa, Fresh and Frozen Fruit, Spices	*Ochratoxin A	Method No 02.191 using immunoaffinity column clean-up and HPLC fluorescence	A
	*Fat	Method No 09.021 (using acid hydrolysis for high carbohydrate foods [modified Werner Schmidt])	A
	*Almond protein	Method FOD/SOP/75.048 using R-Biopharm ELISA kit	A
	*Hazelnut protein	Method No 75.049 using R-Biopharm ELISA kit	A
FOOD	*Cashew	Method No FODSOP 007 using R-Biopharm ELISA kit	A
	*Egg protein	Method No FODSOP 75.053 using R-Biopharm ELISA kit	A
	*Gluten	FODSOP 20.551 using R-Biopharm ELISA kit	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
	*Peanut	Method No FODSOP 002 using R-Biopharm ELISA kit	A
	*Sesame	Method No FODSOP 006 using R-Biopharm ELISA kit	A
	*Soya	Method No FODSOP 94.250 using R-Biopharm ELISA kit	A
	*Preservatives: Benzoic Acid Sorbic Acid	Method No 50.002 using HPLC	A
	*Artificial sweeteners: Aspartame Ascesulfame K Saccharin	Method 75.008 using extraction and clean-up followed by reverse phase HPLC with UV detection	A
	*Sugars	Method FOD/SOP/014 using HPLC with RI detector	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
Food and Food Products (specified where required) (cont'd)	*Identification of synthetic colouring matter: Allura Red Amaranth Black PN Brilliant Blue FCF Carmoisine Chocolate Brown HT Erythrosine BS Green S Indigo Carmine Patent Blue V Ponceau 4R Quinoline Yellow Red 2G Sunset Yellow FCF Tartrazine	Method Nos 07.910 and 07.920 (using TLC)	A
	*Determination of artificial colours: Ponceau 4R Sunset yellow Tartrazine	Method No 75.034 using HPLC/UV	A
	*Determination of artificial colours: Sudan I Sudan II Sudan III Sudan IV	Method FOD/SOP/ 75.042 using solvent extraction using HPLC with UV detection	A
	*Moisture	Method No 25.070 using Gravimetry	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD (cont'd)	Chemical Tests (cont'd) *Indicates analysis performed under Food Standards Agency designation as Official Laboratory in accordance with retained Regulation (EU) 2017/625	Documented In-House Methods:	
Food and Food Products (specified where required) (cont'd)	***Preservatives:** Benzoic acid Sorbic acid	Method No 75.010 using HPLC/UV	A
	*Sulphur dioxide	Method No 50.651 using the Shipton method Method No 50.650 (Qualitative) using the Parkes method	A
	*Carbohydrate Energy Protein Salt Sugars	Method SOP/FOD/004 by calculation	A
	*Meat/Fish content	Method No 91.125 by calculation	A
	*Connective tissue	Method No 20.421 by calculation	A
	*Semi quantitative determination of DNA from: Goat Ovine Porcine Turkey Chicken Bovine Equine	Method No. FOD-SOP-95.250 and/or FOD-SOP-010 for extraction of DNA and Method No. FOD-SOP-96.250 using AriaMx qPCR PCR for amplification and determination	A
RICE AND RICE PRODUCTS	*Detection of genetically modified events: PLD-rice P-35S T-nos CrylAb/Ac	Method No. FOD-SOP-95.250 and/or FOD-SOP-010 for extraction of DNA and Method No. FOD-SOP-011 using AriaMx qPCR for amplification and determination	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FORENSIC TESTING			
BODY FLUIDS and TISSUES	<u>Analysis of Coroner Samples for Medical Investigation</u>		
Blood	Presumptive Screening for the presence of drugs of abuse (cut-off limit): - Acetaminophen (paracetamol) (2.5mg/L)	Method TOX/SOP/80.002 using: - GC-MS-NPD	A
Blood (Preserved)	Presumptive Screening for the presence of drugs of abuse (cut-off limit): - Diazepam (0.01mg/L)	Methods TOX/SOP/80.003 using: - LC-MSMS	A
Blood (Preserved)	Detection and Quantitation of the following (cut-off limit): - Alcohol (10mg/100ml) Concentration Range: 10-500 mg/100ml	Method TOX/SOP/80.001using: - headspace 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 (cont'd)	<u>Analysis of Coroner Samples for Medical Investigation</u> (cont'd)		
Blood (Preserved, Unpreserved)	Quantitative analysis of the following drugs (concentration range): - Amitriptyline (0.032-20 mg/L) - Carbamazepine (0.5-20 mg/L) - Citalopram (0.025-4 mg/L) - Codeine (0.08-8 mg/L) - Diazepam (0.048-8 mg/L) - Dihydrocodeine (0.032-8 mg/L) - Fluoxetine (0.013-8 mg/L) - Lamotrigine (0.2-20 mg/L) - Methadone (0.032-8 mg/L) - Mirtazapine (0.025-4 mg/L) - Nordiazepam (0.05-8 mg/L) - Nortriptyline (0.032-20 mg/L) - Paracetamol (5.0-80 mg/L) - Sertraline (0.04-4 mg/L) - Tramadol (0.032-8 mg/L) - Valproic acid (2-160 mg/L) - Venlafaxine (0.08-20 mg/L) - Zopiclone (0.025-4 mg/L)	Documented In-House Method TOX/SOP/80.007 using: - Liquid chromatography tandem mass spectrometry (LC-MS/MS)	A

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, E, F
TOXICOLOGY	Forensic Analysis	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 (Cut-off) [Concentration Range]: Amphetamine (250 µg/L); (62.5-2500 µg/L) Benzoylecgonine (50 µg/L); (12.5-500 µg/L Cocaine (10 µg/L); (2.5-100 µg/L) Diazepam (550 µg/L); (135-5400 µg/L) Ketamine (20 µg/L); (5-200 µg/L) Methadone (500 µg/L); (125-5000 µg/L) Methylamphetamine (10 µg/L) ; (2.5-100 µg/L) Methylenedioxymethampheta mine – MDMA (10 µg/L); (2.5-100 µg/L)	Documented in house method TOX/SOP/80.011 using LCMSMS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY (cont'd)	Forensic Analysis	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 (Cut-off) [Concentration Range]:		A
Whole Blood (Preserved)	Morphine (80 µg/L); (20-800 µg/L)	Documented in house method TOX/SOP/80.011 using LCMSMS	A
Whole Blood (Preserved)	Delta-9-Tetrahydrocannabinol (THC)(2 µg/L);(1-10 µg/L)	Documented in house method TOX/SOP/80.012 using LCMSMS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOXICOLOGY (cont'd)	<u>Analysis of Coroner Samples for Medical Investigation</u>		
Whole Blood (Preserved)	Detection and Quantitation of drugs of abuse (Cut-off); (Calibration Range): Amphetamine (250 µg/L); (62.5-2500 µg/L) Benzoylecgonine (50 µg/L); (12.5-500 µg/L) Cocaine (10 µg/L); (2.5-100 µg/L) Diazepam (550 µg/L); (135-5400 µg/L) Ketamine (20 µg/L); (5-200 µg/L) Methadone (500 µg/L); (125-5000 µg/L) Methylamphetamine (10 µg/L); (2.5-100 µg/L) Methylenedioxymethamphetamine – MDMA (10 µg/L); (2.5-100 µg/L) Morphine (80 µg/L); (20-800 µg/L) Tramadol (500 µg/L); (125-5000 µg/L)	Documented in house method TOX/SOP/80.011 using LCMSMS	A
Whole Blood (Preserved)	Detection and Quantitation of drugs of abuse (Cut-off); (Calibration Range): Delta-9-Tetrahydrocannabinol (THC)(2 µg/L);(1-10 µg/L)	Documented in house method TOX/SOP/80.012 using LCMSMS	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DIGITAL DEVICES AND DATA Closed circuit CCTV	<u>Forensic Analysis</u> (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Video processing and analysis	
Digital Video Recorders	Capture and preservation of data - Export video (exporting files using CCTV system, copying via digital output)	Documented In-house method (IMG-SOP-015) using: - Manual interaction with system and / or device	E
Digital Images/Video	Processing of digital images/video Production of digital stills	Documented In-house method (IMG-SOP-008) using: - A range of CCTV proprietary software players - MW Snap	E
Digital Images/Video	Processing of digital images/video Conversion of digital images/video - Transcoding - Screen capturing	Documented In-house method (IMG-SOP-009) using: - A range of CCTV proprietary software players - AVID - SnagIt - Wondershare	E

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DIGITAL DEVICES AND DATA Computers	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Digital forensics	
Computers and digital storage devices - Hard disk drives - Solid state drives - Memory cards - USB flash drives	Capture and preservation of data from storage devices	Documented in-house method(s) Using (HTCU-SOP-004): - EnCase - FTK Imager - Forensic UltraDock	E
Computers and digital storage devices - M.2	Capture and preservation of data from storage devices	Documented in-house method(s) using: • FTK Imager (DFG-SOP-038) • EnCase (DFG-SOP-039)	E
Computers and digital storage devices - Apple Mac-based computers Mobile phones	Bootable capture and preservation of data	Documented in-house method(s) Using (HTCU-SOP-004): - Digital Collector	E
Mobile phone handsets and tablets associated with the following operating systems: - Apple iOS - Android - Non-smartphone proprietary systems	Capture and preservation of data	Documented in-house method(s) (PEU-SOP-012) using: - XRY - Graykey - UFED 4PC - Manual examination	E
Mobile phone handsets and tablets associated with the following operating systems: - Apple iOS - Android - Non-smartphone proprietary systems	Processing of data	Documented in-house method(s) (PEU-SOP-012) using: - XRY - XAMN - Physical Analyzer	E

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DIGITAL DEVICES AND DATA (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Digital forensics	
Mobile phones (cont'd)			
Mobile phone handsets and tablets associated with the following operating systems: - Apple iOS - Android - Non-smartphone proprietary systems	Analysis of data - Keyword Analysis - Date/Timelining - Manual Bookmarking - File Data Filtering - Database Analysis - Application Analysis	Documented in-house method(s) (PEU-SOP-012) using: - XAMN - Physical Analyzer	E
(U)SIM cards	Capture and preservation of data	Documented in-house method(s) (PEU-SOP-012) using: - XRY XAMN	E
	Processing of data	Documented in-house method(s) (PEU-SOP-012) using: - XRY - XAMN	E
	Analysis of data - Keyword Analysis - Date/Timelining - Manual Bookmarking - File Data Filtering - Database Analysis - Application Analysis	Documented in-house method(s) (PEU-SOP-012) using: - XAMN	E
Memory cards associated with mobile phone handsets and tablets	Capture and preservation of data	Documented in-house method(s) (PEU-SOP-012) using: - XRY - FTK imager (DFG-SOP-038) - EnCase (DFG-SOP-039)	E

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DIGITAL DEVICES AND DATA (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Digital forensics	
Mobile phones (cont'd)			
Memory cards associated with mobile phone handsets and tablets	Processing of data	Documented in-house method(s) (PEU-SOP-012) using: - XRY - XAMN	E
	Analysis of data - Keyword Analysis - Date/Timelining - Manual Bookmarking - File Data Filtering - Database Analysis - Application Analysis	Documented in-house method(s) (PEU-SOP-012) using: - XAMN	E
DRUGS (and materials suspected of containing drugs)	Forensic Analysis		
	Legal classification of controlled drugs (Misuse of Drugs Act 1971)	Documented in house method DRU-SOP-009 section 5.6	A
	Identification of Cannabis, cannabis resin and cannabis products	Documented in house method DRU/SOP/79.001 using - Microscopy - Duquenois Levine Colour test	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
DRUGS (and materials suspected of containing drugs) (cont'd)	Forensic Analysis (cont'd)		
	Presumptive Screening tests for the presence of - Amphetamine - MDMA - Heroin	Documented in house method DRU/SOP/001 using spot tests: - Marquis colour test	A
	- Cocaine	- Cobalt Thiocyanate colour test	A
	- Ketamine	- Modified Cobalt Thiocyanate test (Scott colour test)	A
	Qualitative Identification of controlled drugs: - Cocaine - Mephedrone - Heroin - MDMA - Ketamine	Documented in house method DRU/SOP/79.008) using - GC-MS	A
	Qualitative Identification of controlled drugs: - Cocaine hydrochloride - Cocaine (base) - Mephedrone - Heroin - Ketamine	Documented in house method DRU/SOP/79.005 using - FTIR	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MARKS AND IMPRESSIONS	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Friction Ridge Detail: visualisation and enhancement	
Fingermarks Any material which is capable of retaining friction ridge marks	Enhancement of fingermarks	Documented In-House Methods using chemical enhancement and lighting techniques: - Acid Dye Treatments -ethanol based (CTU/SOP/78.013) Acid Black 1 Acid Violet 17 Acid Yellow 7 - Cyanoacrylate (CNA) Fuming (CTU/SOP/78.008) - Basic Yellow 40 (BY40) ethanol and aqueous (CTU/SOP/78.008) - Basic Red 14 (BR14) ethanol and aqueous (CTU/SOP/78.008) - Multi Metal Deposition (Au/Ag) (CTU/SOP/78.105) - Ninhydrin (CTU/SOP/78.005) - Physical Developer (CTU/SOP/78.007) - Powder suspensions (CTU/SOP/78.012) Carbon based - black Titanium dioxide based – white - Powdering Techniques (post Cyanoacrylate fuming) (CTU/SOP/78.008): White magnetic powder Black magnetic powder	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MARKS AND IMPRESSIONS (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Friction Ridge Detail: visualisation and enhancement	A
Fingermarks Any material which is capable of retaining friction ridge marks (cont'd)	Enhancement of fingermarks (cont'd)	Documented In-House Methods using visual and lighting enhancement techniques: - Visual examination (CTU-SOP-92.606) - White Light and Filtered Sources (CTU/SOP/78.010) - High intensity Light Sources (CTU/SOP/78.009) Laser Blue (λ = 445 nm) Green (λ=520nm) Lumatec Superlite S04: UVA (λ = 320-400 nm) UVA + Blue (λ = 320-500 nm) Blue (λ = 400-500 nm) Violet (λ = 415 nm) Blue 440 (λ = 440 nm) Blue 460 (λ = 460 nm) Turquoise (λ = 490 nm) Green (λ = 550 nm) Yellow (λ = 570 nm) LED Orange (λ =570-610nm)	

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
MARKS AND IMPRESSIONS (cont'd)	Forensic Analysis (cont'd)	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: • Friction Ridge Detail: visualisation and enhancement	
Fingermarks Any material which is capable of retaining friction ridge marks (cont'd)	Enhancement of fingermarks (cont'd)	Documented In-House Methods for imaging / digital capture (CTU/SOP/92.606) - Digital SLR - DCS5	A
Developed fingerprint marks	Determination of the presence of friction ridge characteristics for the purpose of subsequent comparison	Documented In-House methods using visual examination, (CTU/SOP/92.606)	A
FRICTION RIDGE DETAIL COMPARISON	Forensic Analysis	The organisation has demonstrated compliance to the Forensic Science Regulator Code of Practice V2 FSA Specific Requirements: Friction ridge detail: comparison	
Friction Ridge Detail: - Lifts - Images	Direct comparison of person(s) of interest	Documented in house manual ACE-V procedure, utilising: - Fingerprint glass - Comparators (optical) - High Quality Printer - Store & Forward Printer	F
	Opinion and Interpretation The analysis, comparison and evaluation of the significance of agreement and disagreement between friction ridge detail to determine whether they are from the same or different source.	Documented In-House methods using - Professional experience - Database	F

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOYS AND TOY PACKAGING TESTING			
TOYS and TOY PACKAGING	Mechanical Tests	BS EN 71-1:2014 (documented in-house methods based on the tests specified in the standard to assess compliance with the relevant clauses below)	
	Tension test - general	Method PDT/SOP/002 (4.6, 4.11, 4.14.2, 4.18, 4.22, 4.23.2, 5.1, 5.3, 5.10, 5.12, 5.13)	A
	Sharpness of edges	Method PDT/SOP/ 23.974 (4.5, 4.7, 4.9, 4.10.2, 4.14.2, 4.15.1.3, 5.1)	A
	Kinetic energy, projectile length, tip radius	Method PDT/SOP/ 23.975 (4.17)	A
	Thickness of plastic sheetings/bags	Method PDT/SOP/ 23.976 (4.3,5.3, 6)	A
	Opening perimeter of bags	Method PDT/SOP/ 23.977 (4.4, 6)	A
	Drop test	Method No 23.978 (4.5, 4.10.2, 4.14.2, 4.22, 4.23.2, 5.1, 5.10, 5.12, 5.13)	A
	Impact test	Method No 23.979 (4.5, 4.6, 4.10.2, 4.14.2, 4.22, 4.23.2, 5.1, 5.10, 5.12, 5.13)	A
	Compression test	Method No 23.980 (4.6, 4.14.2, 4.22, 4.23.2, 5.1, 5.10, 5.12, 5.13)	A
	Torque test	Method No 23.981 (4.6, 4.11, 4.14.2, 4.18, 4.22, 4.23.2, 5.1, 5.10, 5.12, 5.13)	A
	Mass loading (folding/sliding mechanisms)	Method No 23.984 (4.10.1)	A
	Flexibility of wires	Method No 23.985 (4.8)	A
	Expanding materials	Method PDT/SOP/ 23.986 (4.6)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOYS and TOY PACKAGING (cont'd)	Mechanical Tests (cont'd)	BS EN 71-1:2014 (documented in-house methods based on the tests specified in the standard to assess compliance with the relevant clauses below)	A
	Accessibility	Method PDT/SOP/ 23.987 (4.5, 4.7, 4.8, 4.10.2, 4.10.4, 4.15.1.3, 4.21, 5.1, 5.7)	A
	Leakage of liquid filled toys	Method No 23.988 (5.5)	A
	Stability of heavy toys	Method PDT/SOP/ 23.989 (4.16)	A
	Stability of toys intended to bear the mass of a child	Method No 23.990 (4.15.1. 4, 4.15.4.3, 4.15.4)	A
	Static strength	Method No 23.991 (4.15.1.3, 4.15.1.5, 4.15.3, 4.15.4, 4.15.5.3)	A
	Tension test-seams and materials	Method PDT/SOP/ 23.992 (4.23.2,5.2)	A
	Geometric form	Method No 23.993 (5.8,5.11)	A
	Small size and detachable components	Method No 23.994 (4.6, 4.11, 4.18,4.23.2 5.1, 5.2)	A
	Sharpness of accessible points	Method No 23.995 (4.5,4.8, 4.9, 4.10.2, 4.14.2, 4.15.1.3, 5.1)	A
	Tip over test	Method PDT/SOP/ 23.997 4.10.2, 4.22, 5.1, 5.10, 5.12)	A
	Soaking test	Method No 23.998 (4.11, 4.23.2, 5.1, 5.10, 5.12)	A
	Assessment of cords on toys	Method No 23.970-5 (4.4, 4.13, 5.4)	A
	Assessment of toys which a child can enter	Method No 23.812 (4.14.1a, 4.14.1b)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
TOYS and TOY PACKAGING (cont'd)	Mechanical Tests (cont'd)	BS EN 71-1:2014 (documented in-house methods based on the tests specified in the standard to assess compliance with the relevant clauses below)	A
	Assessment of hinged masses	Method No 23.816 (4.10.3)	A
	Assessment of springs	Method No 23.815 (4.10.4)	A
	Assessment of dimensional clearance	Method No 23.816 (4.10.1c, 4.10.1d, 4.10.2, 4.15.1.6, 4.15.5.c, 4.15.54d)	A
	Assessment of masks and helmets	Method No 23.817 (4.14.2)	A
	Tension test – Magnets	Method No 23.818 (4.23.2)	A
	Determination of magnetic flux	Method No 23.819 (4.23.2)	A
	Tension test-protective components	Method No PDT/SOP/002 (4.9, 4.17.1)	A
	Small balls	Method 23.821 (4.22, 5.10, 5.13)	A
	Play figures	Method PDT/SOP/23.822 (5.11)	A
	Hemispheric-shaped toys	Method 23.823 (5.12)	A
	Suction Cups	Method 23.824 (5.13)	A
	Magnets	Method 23.818 & 23.819 (4.23)	A
	Flammability	BS EN 71-2:2020	
	Toys to be worn on the head	Method No 23.067 (Clause 4.2) Method No 23.068 (Clause 4.2)	A
	Toy disguise costumes	Method No 23.066 (Clause 4.3)	A
	Toys intended to be entered	Method No 23.066 (Clause 4.4)	A
	Soft filled toys	Method No 23.107 (Clause 4.5.2)	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
	MICROBIOLOGICAL TESTING		
FOOD and FOOD PRODUCTS (specified where required)	<u>Microbiological Tests</u> *Indicates examination performed under Food Standards Agency designation as an Official Laboratory in accordance with retained Regulation (EU) 2017/625 Detection of:		
	**Salmonella* spp (excluding *Salmonella* typhi or para typhi)	Official Control Sample Method MIC/SOP/76.010 based on BS EN ISO 6579-1:2017+ A1:2020	A
	Salmonella spp (excluding *Salmonella* typhi or para typhi)	Routine Sample Method MIC/SOP/76.010 using single selective enrichment broth	A
	**Listeria monocytogenes* and other *Listeria* spp	Method MIC/SOP/76.007 based on BS EN ISO 11290-1: 2017	A
	Enumeration of		
	*Coagulase positive Staphylococci including *Staphylococcus aureus*	Method MIC/SOP/ 08.182 based on Method MIC/SOP/ 08.182 based on BS EN ISO 6888-1:2021 +A1: 2023	A
	Staphylococci including *Staphylococcus aureus*	Method MIC/SOP/ 76.029 using bioMérieux TEMPO automated MPN system	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS (specified where required) (cont'd)	Microbiological Tests (cont'd) *Indicates examination performed under Food Standards Agency designation as an Official Laboratory in accordance with retained Regulation (EU) 2017/625 Enumeration of: (cont'd)		
	**Bacillus cereus*	Method MIC/SOP/08.190 based on BS EN ISO 7932:2004+ A1:2020	A
	**Clostridium perfringens*	Method MIC/SOP/08.200 based on BS EN ISO 7937:2004	A
	*Enterobacteriaceae	Method MIC/SOP/08.134 based on BS ISO 21528-2:2017	A
	Enterobacteriaceae	Method MIC/SOP/76.029 using bioMérieux TEMPO automated MPN system	A
	*β-glucuronidase positive *Eschericia coli*	Method MIC/SOP/08.135 based on BS ISO 16649-2:2001	A
	Eschericia coli	Method MIC/SOP/76.029 using bioMérieux TEMPO automated MPN system	A
	**Listeria monocytogenes* and other *Listeria* species	Method MIC/SOP/76.024 based on BS EN ISO 11290-2: 2017	A
	*Aerobic Colony Count 30°C	Method MIC/SOP/08.145 based on BS EN ISO 4833-1:2013+A1:2022	A
	Aerobic Colony Count 30°C	Method MIC/SOP/76.029 using bioMérieux TEMPO automated MPN system	A

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used	Location Code
FOOD and FOOD PRODUCTS (specified where required) (cont'd)	Microbiological Tests (cont'd)		
	Yeasts and Moulds	1) Method MIC/SOP/76.025 BS ISO 21527-2:2008 (Water Activity ≤ 0.95)	A
		2) Method MIC/SOP/ 76.026 BS ISO 21527-1:2008 (Water Activity > 0.95)	A
WATERS:	Microbiological Tests	Documented In-House Methods:	
DRINKING, PROCESS and RECREATIONAL covering tap (hot and cold), bottled waters and natural recreational waters, (excluding beach bathing waters)	Enumeration of:		
	Total coliforms and *Escherichia coli*	Method MIC/SOP/76.020 using IDEXX Quanti-tray (MPN) method - Colilert. Based on The Microbiology of Drinking Water 2016: Part 4	A
	Aerobic Colony Count at 22°C and 37°C	Method MIC/SOP/76.004 based on Microbiology of Drinking Water Part 7:2020	A
Drinking Waters	Enterococci	MIC-SOP-004 using IDEXX Quanti-Tray (MPN) method – Enterolert. Based on Microbiology of Drinking Water 2012: Part 5B	A
Potable Waters and Swimming Pool Waters	*Pseudomonas aeruginosa*	Method MIC/SOP/003 based on Microbiology of Drinking Water 2015: Part 8	A
END			