

Equipment Schedule 2021

#	Equipment Description
1	GC/MS system – Agilent 7890B High sensitivity 7000C Triple Quad MS/MS EI/CI Source. CombiPAL RSI 120 robotic sampler *
2	GC/MS custom system Agilent 7890B Multi-detector with EI/CI and APCI source. Gas sampling valves. CombiPAL RSI 120 robotic sampler #
3	ICP-MS Agilent 7900 with SPS4 Autosampler with high organics capability *
4	HPLC Agilent Bio inert G5611A 1260 Infinity RI, ELSD, UV (diode array) -multidetector #
5	Thermal Desorption System Markes Unity 2 with Series 2 Ultra autosampler (for tubes) and CIA advantage automated bag & canister analyser – VOC's range from C2-C40 both solids, liquids (into empty tube) and gas (adsorbent tube –various types) capable#
6	HPLC MS Agilent G6530BA Accurate Mass Q TOF – Ultra high performance 1290 Infinity II LC *
7	IC Metrohm 930 /848 IC Package Compact IC Flex 941 eluent generator and programmable gradient elution anion / cation #
8	Auto Titrator Metrohm 905 Titrando with 814 autosample processor and 856 Conductivity module, pH & Conductivity electrodes for solvent and aqueous; Orion (portable) high sensitivity D.O. meter
10	Flash Pyrolyser CDS 1000 Pyroprobe System- flash pyrolysis 50 -1200°C for solids and liquids both vaporisation and pyrolysis#
11	SEM Tescan VEGA LMU (tungsten filament)with variable pressure operation and Thermo Scientific EDS package
12	GC Agilent 7890B Multi Inlet and Detector, G4513A Liquid Autosampler, with gas sampling valves & NPD TCD FID detectors
13	Microbalance Sartorius Genius 5 figure balance, 0.001 to 230 g
14	UV-Vis , Varian Cary 300
15	FTIR , Access to Perkin Elmer Spectrum 1000 with ATR accessory, Specac Golden Gate II
16	Muffle Furnace , 16L, SEM model 202, 1150°C programmable
17	Rotary evaporator , Heidolf with Vacuubrand vacuum pump and Julabo chiller circulator
18	Bomb calorimeter , LECO AC-350
19	Tube furnace , Labec HTF150/12 1200°C, 1000mm x 130mm;3 programmable heated zones SS and Al ₂ O ₃ work tubes
20	Purge and trap GC/MS , O-I-Analytical Archon 4552 autosampler with Tekmar 3100 sample concentrator
21	Autoclaves , 600 mL Parr 4563 Mini Benchtop reactor with 4843 controller fitted with gas/liquid introduction and sampling accessories, 1L Zirconium Mini Benchtop reactor, 8x50ml Teflon lined pressure vessels.
22	HPLC Agilent G7116B 1290 Infinity II
23	Centrifuge Sigma - John Morris
24	MilliQ Direct8/16 system MilliPak - MilliQ
25	Ethos Microwave Digestor MA182 Ethos Up - Milestone

26	Velocity Nitrogen Generator N2-14A – Agilent
27	Sputter Coater SC100M Magnetron mini coater - Dynavac
28	Benchtop Bioreactor Biostat A – Sartorius stedim
29	Chiller cooler Julabo FL601 John Morris
30	Lab Reactor IKA LR 1000 – John Morris

on trolley can be connected to instruments labelled with *