

Reference	3493	Description of Space or Activity/Task or Equipment	Use of the Ther Fisher Nicolet iS50R FT-IR spectrometer located in Millburn house G78 at cryogenic, elevated and room temperatures. includes use of Golden Gate ATR, Linhkam THMS600 VT stage, OI microstat and home built MicroSat
Assessment Date	06/09/2024	Publish To Portal	No
Assessor Name	Ben Breeze	Risk Assessment Title	Thermo Fisher Nicolet iS50R FT-IR spectrometer
Assessment Team Members		Review Date	No Review Set
Role / Space / Project Reference		Current Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)	3
Department	Use the search function above or double click here for org chart -> Academic Faculties -> Faculty of Science, Engineering and Medicine -> Research Technology Platforms - RTPs -> Spectroscopy Research Technology Platform - RTP	Final Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)	3
Location Details	Central Campus-Millburn House-Ground Floor-G78 - (01.005.000.051) Spectroscopy RTP Laboratory Millburn House G78	Risk Assessment Number	0



Risk Assessment Category		Equipment			Additio	nal Informa	ation	Users are resp assessment for at: https://warwick ety/Sample When booking the risk assess All Users must operating the s Bookings are n recorded in the group. All users will re operated the s Document His Version Date F 1 07/12/20 Be 2 08/09/21 Be Format 3	or their samp c.ac.uk/reset all users wi sment for the complete tr spectromete restricted to e px-Optical equire retrain system for 18 tory Reviewer Co n Breeze Ini	oles which mu arch/rtp/spect ill provide a re e sample used raining course r. trained users Absorption-us ning if they ha 3 months. omments tial Review	st be logged roscopy/Saf ference to d. before who are sers web ave not
Date Record Create	d	06/09/2024									
Hazard Type & Hazard Description		hay be at Risk? & lay Person(s) Be Harmed	Existing Control Measures	L	S	R	VH, what a	ent risk is M, H or dditional Control s are required?	L	S	R
Work Environment Temperature (too hot or cold). Equipment and Samples may be at elvated temperatures	Lab	oratory Worker Staff Student Burns	Admin - Awareness training provided. Admin - Emergency response plan established and trained out. Admin - Safe System of Work (SSoW) established and trained out. Admin - Signage used to raise awareness. PPE - Personal Protective Equipment (PPE) or suitable clothing is issued and worn (thermal gloves).	Serious	Unlikely	Low			Serious	Unlikely	Low



Equipment/Plant Trapping or object being dropped. Contact with rotating mechanical parts (Friction). Contact with mechanical pinch or nip points.	Laboratory Worker Staff Student Trapped fingers Bruies	Admin - Information, instruction, supervision & training. Eng/Admin - Adjustable guarding in place to allow safe use. Admin - Awareness training provided. Admin - Controls are suitably located and identified. Admin - Safe System of Work (SSoW) established and trained out.	Minor	Possible	Low	Minor	Possible	Low
Equipment/Plant broken glassware Contact with sharp blade (cuts).	Laboratory Worker Staff Student Cuts from broken quartz	Admin - Defective equipment taken out of use. Admin - Information, instruction, supervision & training. PPE - Personal Protective Equipment (PPE) is issued and worn (gloves goggles). Take care, dispose of sharps and broken glass in the approved receptacles provided.	Minor	Unlikely	Very Low	Minor	Unlikely	Very Low
Substances Cryogenics Inhalation exposure to hazardous substance. Contact with substances stored at hazardous temperature. Inhalation exposure to hazardous substance.	Laboratory Worker Staff Student Inhalation or ingestion causing loss of consciousness, and or Death	Eng - oxygen depletion sensors throughout lab Admin - Awareness training provided. Admin - Information, instruction, supervision & training. Admin - General ventilation used. Admin - Safe System of Work (SSoW) established and trained out. Admin - Storage in accordance with substance requirement. Admin - University policy & procedure guidance followed. PPE - Personal Protective Equipment (PPE) is issued and worn (specify).	Extreme	Unlikely	Moderate	Extreme	Unlikely	Moderate



Substances Cryogenics Contact with substances stored at hazardous temperature. Contact or interaction with dangerous substances. Eye exposure to hazardous substance. Skin exposure to hazardous substance.	Laboratory Worker Staff Student Contact resulting in cryogenic Burns	dmin - Awareness training provided. Admin - Information, instruction, supervision & training. Admin - General ventilation used. Admin - Safe System of Work (SSoW) established and trained out. Admin - Storage in accordance with substance requirement. Admin - University policy & procedure guidance followed. PPE - Personal Protective Equipment (PPE) is issued and worn (specify). Admin - Awareness training provided. Admin - Information, instruction, supervision & training. Admin - General ventilation used. Admin - Safe System of Work (SSoW) established and trained out. Admin - Storage in accordance with substance requirement. Admin - University policy & procedure guidance followed. PPE - Personal Protective Equipment (PPE) is issued and worn (specify).	Serious	Unlikely	Low	Serious	Unlikely	Low
NIR Artificial Optical Radiation - Infra red Potential exposure to Non- ionising radiation (Infrared - heat/cataracts)	Light affecting eye Light affecting eye	Eng- Light power is low Eng - Engineered measures – remote controls, screening, interlocks, clamps to hold material. Eng - Fixed guarding is in place preventing access. Admin - Information, instruction, supervision & training. Admin - Safe System of Work (SSoW) established and trained out.	Serious	Unlikely	Low	Serious	Unlikely	Low



Electricity Contact with live electrics.	Laboratory Worker Staff Student Electric Shock and/or burns	Eng - Additional power sockets installed (reducing need to daisy-chain extension cables). Eng - Cables and leads are appropriately insulated. Eng - Fixed guarding is in place preventing access.	Serious	Unlikely	Low		Serious	Unlikely	Low
Assessment Conclusion Safe operating procedure									