

# Risk Assessment Summary Report/Print (landscape)



<b>Reference</b>	3491	<b>Description of Space or Activity/Task or Equipment</b>	Use of the Edinburgh Instruments FS5, including the use of SC-25 and SC-70 units for variable temperature measurements, Located in Millburn house G78
<b>Assessment Date</b>	06/09/2024	<b>Publish To Portal</b>	No
<b>Assessor Name</b>	Ben Breeze	<b>Risk Assessment Title</b>	Edinburgh Instruments FS5 Including Variable temperature
<b>Assessment Team Members</b>		<b>Review Date</b>	No Review Set
<b>Role / Space / Project Reference</b>		<b>Current Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)</b>	3
<b>Department</b>	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	<b>Final Risk Level (1=Very Low, 2=Low, 3=Moderate, 4=High, 5=Very High)</b>	3
<b>Location Details</b>	Central Campus-Millburn House-Ground Floor-G78 - (01.005.000.051) Spectroscopy RTP Laboratory Millburn House G78	<b>Risk Assessment Number</b>	0
<b>Risk Assessment Category</b>	Equipment	<b>Additional Information</b>	Users are responsible for having performed a risk assessment for their samples which must be logged at: <a href="https://warwick.ac.uk/research/rtp/spectroscopy/Safety/Sample">https://warwick.ac.uk/research/rtp/spectroscopy/Safety/Sample</a> When booking all users will provide a reference to the risk assessment for the sample used. All Users must complete training course before operating the spectrometer. Bookings are restricted to trained users who are recorded in the px-FS5-users web group. All users will require retraining if they have not operated the system for 18 months. Document History Version Date Reviewer Comments 1 08/09/21 Ben Breeze Initial Review

# Risk Assessment Summary Report/Print (landscape)



Date Record Created		06/09/2024							
Hazard Type & Hazard Description	Who may be at Risk? & How May Person(s) Be Harmed	Existing Control Measures	L	S	R	Where current risk is M, H or VH, what additional Control Measures are required?	L	S	R
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 (goggles). Take care, dispose of sharps and broken glass in the approved receptacles provided.	Minor	Unlikely	Very Low		Minor	Unlikely	Very Low
Work Environment Temperature (too hot or cold). Equipment and Samples may be at elevated temperatures	Laboratory 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
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

# Risk Assessment Summary Report/Print (landscape)



<p>Substances Cryogenics</p> <p>Contact with substances stored at hazardous temperature. Contact or interaction with dangerous substances. Eye exposure to hazardous substance. Skin exposure to hazardous substance.</p>	<p>Laboratory Worker Staff Student</p> <p>Contact resulting in cryogenic Burns</p>	<p>dmin - Awareness training provided. Admin - Information, instruction, supervision &amp; 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 &amp; procedure guidance followed. PPE - Personal Protective Equipment (PPE) is issued and worn (specify). Admin - Awareness training provided. Admin - Information, instruction, supervision &amp; 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 &amp; procedure guidance followed. PPE - Personal Protective Equipment (PPE) is issued and worn (specify).</p>	<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>		<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>
<p>NIR Artificial Optical Radiation - Infra red Potential exposure to Non-ionising radiation (Infrared - heat/cataracts)</p>	<p>Light affecting eye Light affecting eye</p>	<p>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 &amp; training. Admin - Safe System of Work (SSoW) established and trained out.</p>	<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>		<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>

# Risk Assessment Summary Report/Print (landscape)



<p>NIR Artificial Optical Radiation - Ultraviolet</p> <p>Potential exposure to Non-ionising radiation (UV - burns/arc eye/cataracts)</p>	<p>Laboratory Worker Staff Student</p> <p>Light affecting eye</p>	<p>Eng- Light power is low</p> <p>Eng - Engineered measures – remote controls, screening, interlocks, clamps to hold material.</p> <p>Eng - Fixed guarding is in place preventing access.</p> <p>Admin - Information, instruction, supervision &amp; training.</p> <p>Admin - Safe System of Work (SSoW) established and trained out.</p>	<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>		<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>
<p>Electricity</p> <p>Contact with live electrics.</p>	<p>Laboratory Worker Staff Student</p> <p>Electric Shock and/or burns</p>	<p>Eng - Additional power sockets installed (reducing need to daisy-chain extension cables).</p> <p>Eng - Cables and leads are appropriately insulated.</p> <p>Eng - Fixed guarding is in place preventing access.</p>	<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>		<p>Serious</p>	<p>Unlikely</p>	<p>Low</p>
<p><b>Assessment Conclusion</b></p>	<p>Safe operating procedure</p>								