

**Risk Assessment Form**

Title of Assessment

Date of assessment

Department

Date for review

Descriptions of Activities

Name of those working to this assessment

Any others who may be affected by this assessment

Assessment carried out by

**Additional information**

This is an internal and external user facility therefor there will be many people using the spectrometer, often just a single time. All users will be trained by the facility manager, Dr Jack Woolley, or an approved user and supervised if deemed necessary by him or their immediate supervisors.

<b>Foreseeable Significant Hazard</b>	<b>Existing control measures</b>	<b>Controlled residual risk</b>	<b>Further Action</b> where risk remains moderate/high	<b>By whom &amp; when</b>	<b>Controlled Risk Level</b>
<b>Exposure to IR Radiation</b>	Light is entirely contained during normal operation. Some possibility of exposure when changing samples but SOPs and PPE cover this.	low			
<b>Exposure to high voltage electricity</b>	The electric systems are entirely closed at all times. Only certified service engineers will have access.	Very low			
<b>Exposure to Cryogenics (liquid N<sub>2</sub>) and cold temperatures</b>	Use of Cryogenics are accessed under a separate risk assessment, but amount used are smaller and contained in a separate Dewar for the detector once filled.	low			
<b>Exposure to Vacuum pump noise/heat</b>	Vacuum pump only operates when needed and is never left in an evacuated state unattended. The noise is muffled by a silencer and only when the system is evacuating the heat is reduced by only operating the pump when needed.	Med	User instructed not to touch the Vacuum pump. Vacuum pump is located away from the areas in constant use to prevent accidental touching.	Users	low
<b>Use of Nitrogen Gas.</b>	Gas available through the pipe work of the building with the correct regulator and shut off valve. Regulator is inspected along with pipe work before use and area is well ventilated to remove the possibility of over pressurizing inside the FTIR.	low			

<b>Exposure to hazardous chemicals</b>	SOPs and PPE will always be in place. Sample sizes will, by necessity, be minimal, bulk sample preparation, solutions etc. will take place elsewhere. Gloves and goggles must be worn at all times when handling chemicals. No noxious chemicals or dangerous gases to be used at any times.	low	In the event of a spill of a harmful substance, SOPs must be followed and appropriate personnel (Dr Jack Woolley, or Dr James Lloyd-Hughes) must be informed immediately.	Current user, as soon as relevant.	

**Work should not be carried out until the assessment is completed to a suitable & sufficient level and all required control measures are in place.**

Is assessment suitable and sufficient Yes

Any further actions required to allow work to commence	
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Approved By	Dr James Lloyd-Hughes
Date	07/12/22

Position	(RTP) Director
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Please print a copy, sign it and keep for your records

	<b>Severity of injury</b>
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Likelihood	Superficial	Minor	Serious	Major	Extreme
Unlikely	Very low	Very low	Low	Low	Moderate
Possible	Very low	Low	Low	Moderate	High
Likely	Low	Low	Moderate	High	Very high
Very likely	Low	Moderate	High	Very high	Very high
Extremely likely	Moderate	High	Very high	Very high	Very high

See 'Matrix for risk evaluation' for further guidance.

<b>Overall Risk Rating</b> (highest level found)	low
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