

UM	JABATAN KIMIA	Kategori	STANDARD OPERATING PROCEDURE
	PROSEDUR PENGGUNAAN PERALATAN FT-NMR AVANCE III 600 MHz	Dokumen No.	<kosongkan>
		Tarikh Semakan	<kosongkan>
		Mukasurat:	1 daripada 4

1. TUJUAN

Tujuan prosedur ini ditubuhkan adalah untuk memberikan kaedah yang jelas kepada pengguna bagi langkah atau tatacara menghantar sampel untuk analisa menggunakan peralatan FT-NMR 600 MHz

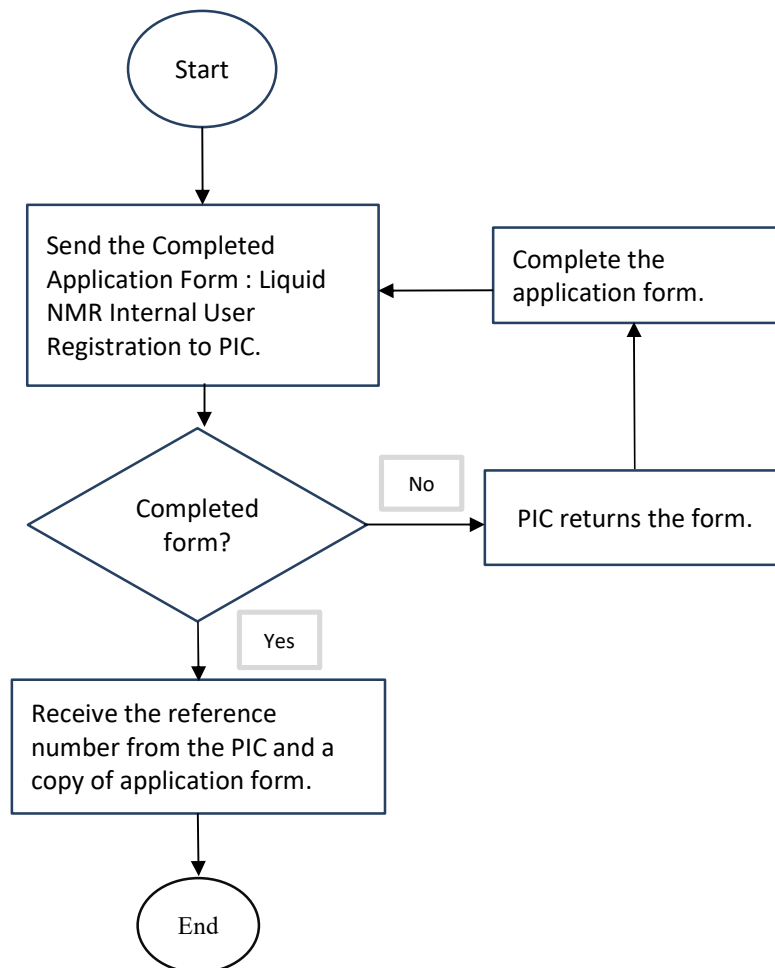
2. SKOP

Terpakai untuk pengguna dari Jabatan Kimia dan pengguna terikat dengan jumlah masa penggunaan sebanyak 300 jam atau seperti yang dipilih oleh pengguna merujuk kepada borang permohonan.

3. PROSEDUR ARAHAN

- a) Carta alir permohonan dan penghantaran sampel bagi pengguna yang berdaftar.

Application form 600MHz FT-NMR hanya perlu dihantar sekali sehingga jumlah masa penggunaan tamat.



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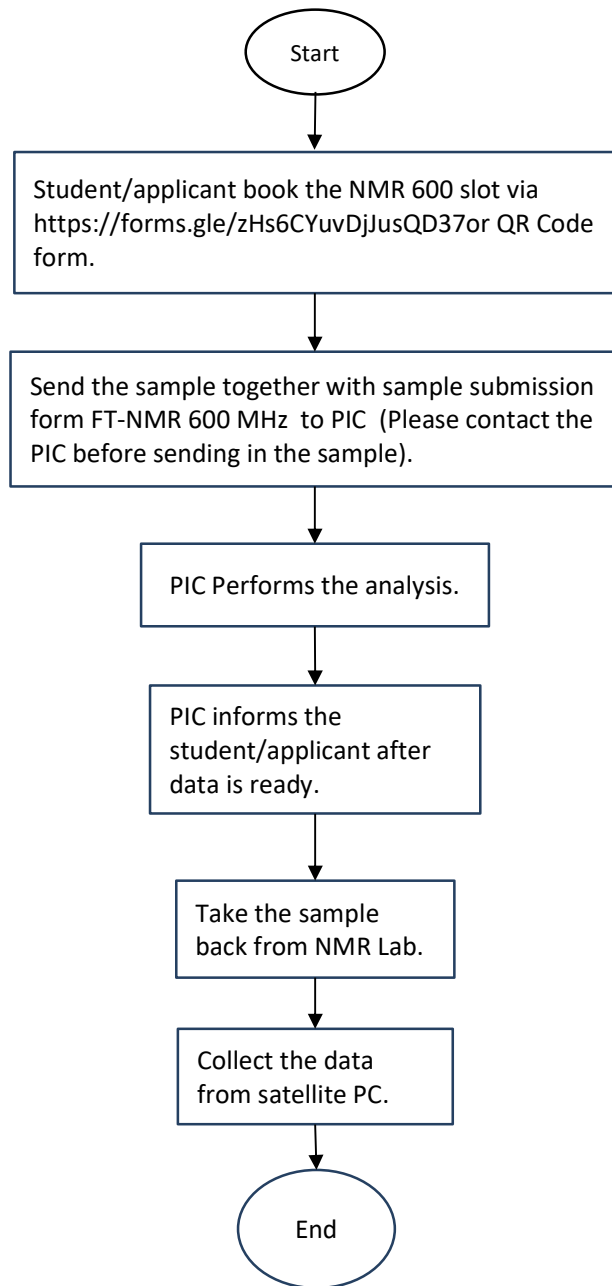
b) Borang B : Application Form Liquid NMR Internal User Registration

<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> UNIVERSITY OF MALAYA <small>CHEMISTRY DEPARTMENT FACULTY OF SCIENCE</small> </div> <div style="text-align: right;"> APPLICATION FORM <small>FORM B Page 1 of 2</small> </div> </div> <p style="text-align: center; margin-top: 10px;">LIQUID FT-NMR INTERNAL USER REGISTRATION</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>APPLICANT INFORMATION</p> <p>NAME : _____</p> <p>SUPERVISOR : _____</p> <p>MATRIX NO : _____</p> <p>CONTACT NO. : _____</p> <p>EMAIL : _____</p> </div> <div style="width: 45%;"> <p style="text-align: center;">For Laboratory Use Only</p> <p>Received date : _____</p> <p>Quotation no. : _____</p> <p>Registration date : _____</p> <p style="text-align: center;">TERMS AND CONDITIONS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">Limit of usage</th> </tr> <tr> <th style="width: 50%;">400 MHz</th> <th style="width: 50%;">600 MHz</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">25 hours of usage time per month on individual account</td> <td style="text-align: center;">No. of hours as per on registration year whichever comes first under one account</td> </tr> </tbody> </table> <p>For 600 MHz</p> <ol style="list-style-type: none"> Please fill in google format https://forms.gle/v0b5JRNPaSa0H6 Submit the sample to AVANCE III lab together with: <ul style="list-style-type: none"> (a) 1H spectra and (b) FT-NMR 600 MHz sample submission form <p><small>For details please refer to general information of NMR User Application.</small></p> </div> </div> <div style="margin-top: 10px;"> <p style="text-align: center;">CONFIRMATION OF USING SERVICE</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">FT-NMR 400 MHz</th> <th style="width: 50%;">FT-NMR 600 MHz</th> </tr> </thead> <tbody> <tr> <td style="font-size: 8px;"> I hereby agree with the terms and conditions stated by the Department of Chemistry for FT-NMR usage of FT-NMR 400 MHz as selected below: </td> <td style="font-size: 8px;"> I/We hereby agree with the terms and conditions stated by the Department of Chemistry for FT-NMR usage of FT-NMR 600 MHz as selected below: </td> </tr> <tr> <td style="font-size: 8px;"> i. RM 2,000.00 for 1 year, 25 hours per month () ii. RM 3,500.00 for 2 years, 25 hours per month () iii. RM 5,500.00 for 3 years, 25 hours per month () </td> <td style="font-size: 8px;"> i. RM 2,500.00 for 1 year or 300 hours or whichever comes first ii. RM 4,500.00 for 2 years or 600 hours or whichever comes first iii. RM 7,500.00 for 3 years or 900 hours or whichever comes first </td> </tr> <tr> <td style="font-size: 8px;"> Please (✓) your selection Laboratory record document Ref. no : NMR/B1/202_/ </td> <td style="font-size: 8px;"> Please (✓) your selection Laboratory record document Ref. no : NMR/B2/202_/ </td> </tr> <tr> <td colspan="2" style="font-size: 8px;"> Note: • If the total limit of hours used up already, user need to renew their registration. • Registration of account must be under the Supervisor name ONLY </td> </tr> </tbody> </table> <p style="margin-top: 10px;">Applicant signature : _____ Date : _____</p> </div>	Limit of usage		400 MHz	600 MHz	25 hours of usage time per month on individual account	No. of hours as per on registration year whichever comes first under one account	FT-NMR 400 MHz	FT-NMR 600 MHz	I hereby agree with the terms and conditions stated by the Department of Chemistry for FT-NMR usage of FT-NMR 400 MHz as selected below:	I/We hereby agree with the terms and conditions stated by the Department of Chemistry for FT-NMR usage of FT-NMR 600 MHz as selected below:	i. 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For Internal Grant (UMRG, PPP, BKF, ...) and External Grant (SCIENCE Fund, FRGS, ...)</p> <p>Please do fund transfer to</p> <p>Account : BUKU PETUNJUK JABATAN KIMIA J-21030-UM.0000003/KW.NP.BP Revenue Code : H72401 Description : NMR User Registration Amount : As selected in confirmation of using service column</p> <p>(2) For latest charge please refer to Chemistry Department Central Facility Website: https://cenfac.um.edu.my (3) The print-out Invoice Commitment must be approved by Supervisor and Head of Department. (4) Please submit Invoice Commitment together with application form.</p> <div style="margin-top: 10px;"> <p style="text-align: center;">We agree to make the payment in accordance to the quotation/invoice issued by Department of Chemistry, Faculty of Science, University of Malaya</p> <p>RESEARCH GRANT NAME : _____ RESEARCH GRANT NO. : _____</p> <p>SUPERVISOR'S SIGNATURE : _____ DATE : _____</p> <p style="text-align: center;">& OFFICIAL STAMP</p> </div> <p style="margin-top: 10px;">IMPORTANT INFORMATION</p> <ol style="list-style-type: none"> Send completed application form to FT-NMR staff (Room C017, C014 Block D and FT-NMR Lab, Bangunan Makmal Kimia). Training will be provided upon request. For the details regarding the instrument, procedure and person in charge of the NMR, please refer https://cenfac.um.edu.my <p style="text-align: center; font-size: 8px;">For any inquiries, please e-mail the Science Officer, Norzalida Zakaria, at norzalida@um.edu.my</p> <p style="text-align: center; font-size: 8px;">Incomplete application form will not be entertained.</p> <p>Contact person:</p> <ol style="list-style-type: none"> Fateh Ngilman (Senior Science officer) : 03-79677171 Sugakumar a/l Varathan (Assistant Science Officer) : 03-79674168 (Bruker AVANCE III 400 & 600 Liquid NMR) Dara Fiona Mohamad (Assistant Science Officer) : 03-79672539 (JEOL ECX 400 Liquid NMR) Noor Asin Che Din (Assistant Science Officer) : 03-79677022 ext 2122 (JEOL ECX 500 Solid/Liquid NMR) <p style="text-align: center; font-size: 8px;">FT-NMR Lab Chemistry Department Faculty Of Science University Of Malaya 50603 Kuala Lumpur, Malaysia</p>
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Borang boleh dicapai di [NMR-B-2021-rv3.pdf \(um.edu.my\)](https://um.edu.my/NMR-B-2021-rv3.pdf)

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- c) Carta alir bagi penghantaran sampel untuk analisa.
 Prosedur dilakukan setiap kali sampel dihantar ke makmal NMR untuk tujuan analisa




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d) Borang penempahan slot bagi analisa sampel menggunakan FT-NMR 600 MHz melalui QRCode



600 MHz NMR Form: User and sample info <https://forms.gle/zHs6CYuvDjJusQD37>

e) Borang penghantaran sampel yang perlu disertakan bersama sampel.



UNIVERSITI MALAYA
CHEMISTRY DEPARTMENT

SAMPLE SUBMISSION FORM
FT-NMR 600 MHz

FORM
Page 1 of 1

For Laboratory Use Only
Received date :

LIQUID FT-NMR 600 MHz TESTING & ANALYSIS SERVICE

APPLICANT INFORMATION

NAME :

MATRIX NO :

Please (✓) at the relevant box:

RESEARCH ASSISTANT

UNDERGRADUATE / PROJECT STUDENT

POSTGRADUATE (Master/PhD)

OTHERS (Postdoctoral/lecturer)

CONTACT NO. :

EMAIL :

SAMPLE INFORMATION

Sample handling

Please (✓) the appropriate box

Store samples in the fridge

Samples should only be handled in a fume hood

Samples must be handled wearing gloves

Store sample in the freezer

Stench

Other handling instructions or hazard information:

PLEASE ENCLOSE ¹H SPECTRA FROM 400MHz

DETAILS OF ANALYSIS						
No	Sample code	Experiment Eg: 1D ¹ H, ¹³ C, 2D HMBC, NOESY	Weight (mg)	Deuterated Solvent	Carcinogenic Yes / No	Toxic Yes / No
Parameter: Eg: number of scans, sw, duration of experiment						

SUPERVISOR'S NAME :
REFERENCE NUMBER : NMRIB2/202_/_

Applicant signature : _____ Date : _____

Supervisor signature : _____ Date : _____

Borang ini boleh dicapai di [Microsoft Word - Sample submission form 600 MHz 2023 \(um.edu.my\)](#)

SEMAKAN	DISEDIAKAN	DISEMAK	TARIKH	CATATAN
1	Norzalida binti Zakaria	Prof. Dr Azhar Ariffin	30 Nov 2023	Isu kali pertama