

Supporting Information for

Synthesis and Photophysical Properties of Novel Pyrene-Metalloporphyrin Dendritic Systems

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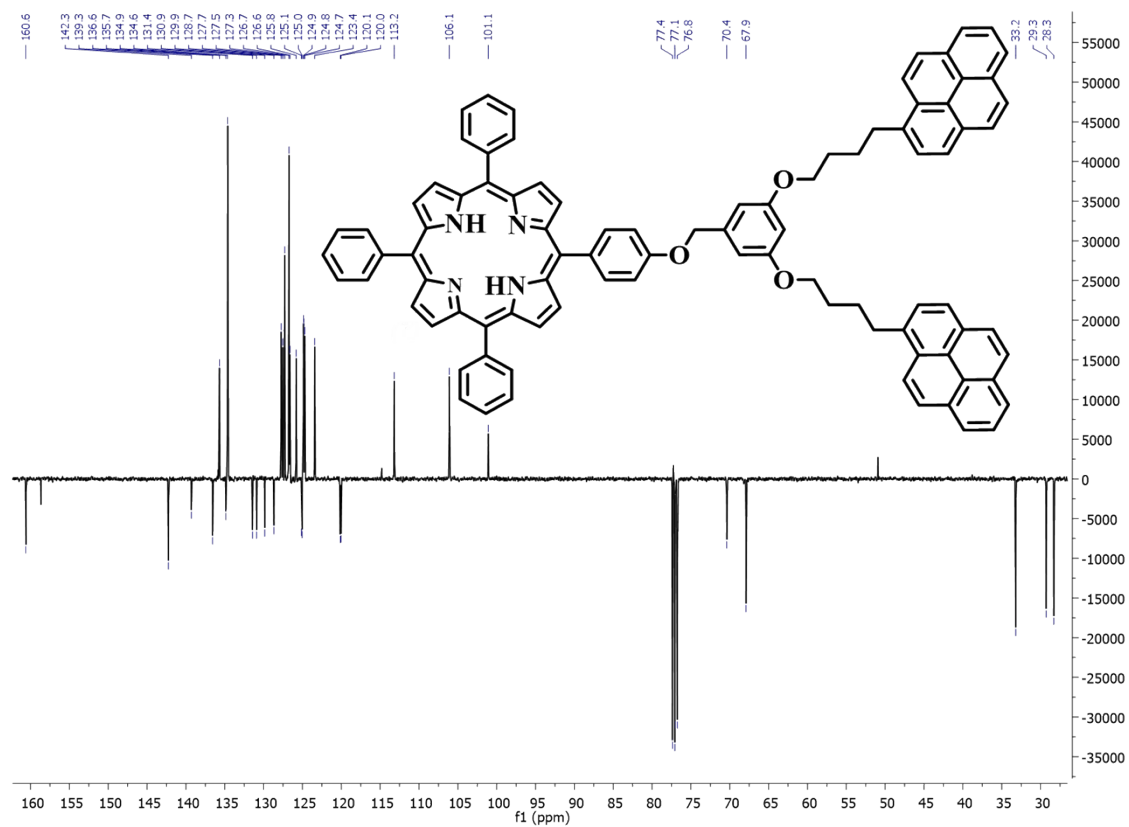


Figure S2. ^{13}C NMR spectrum for compound 4.

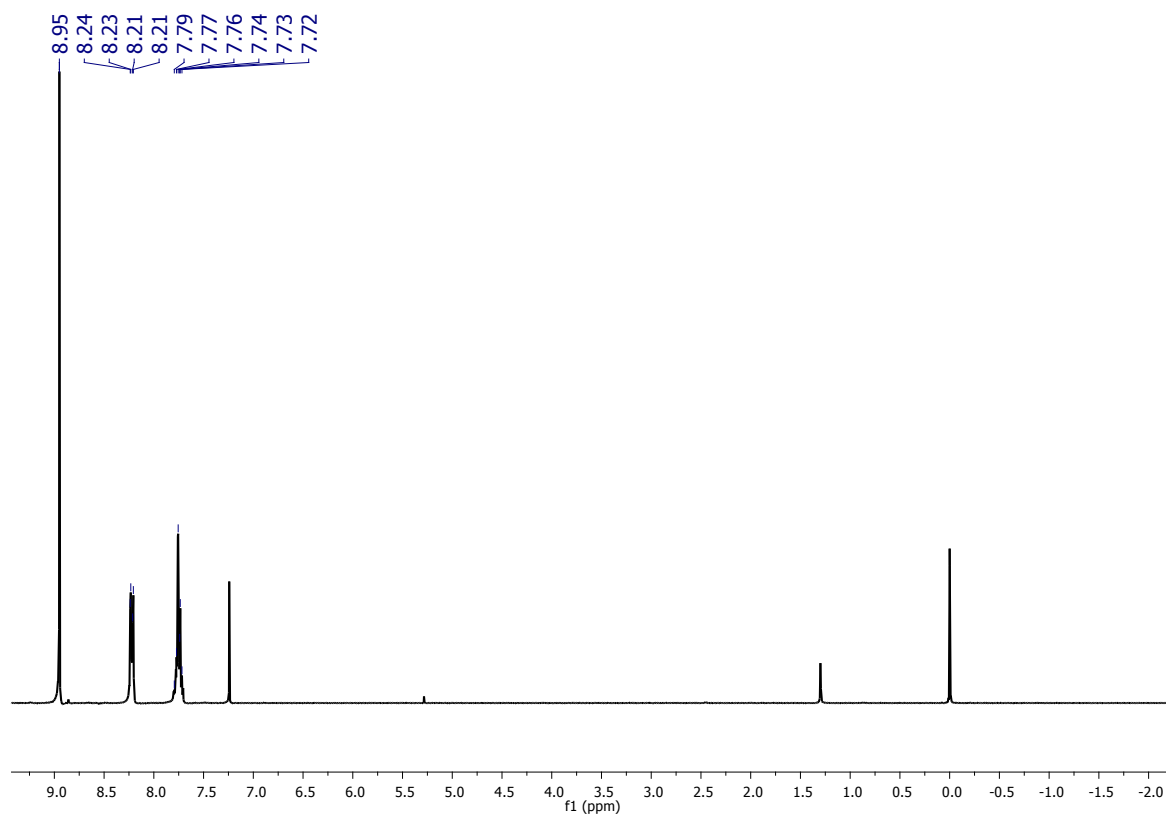


Figure S3. ^1H NMR spectrum for compound **1a**.

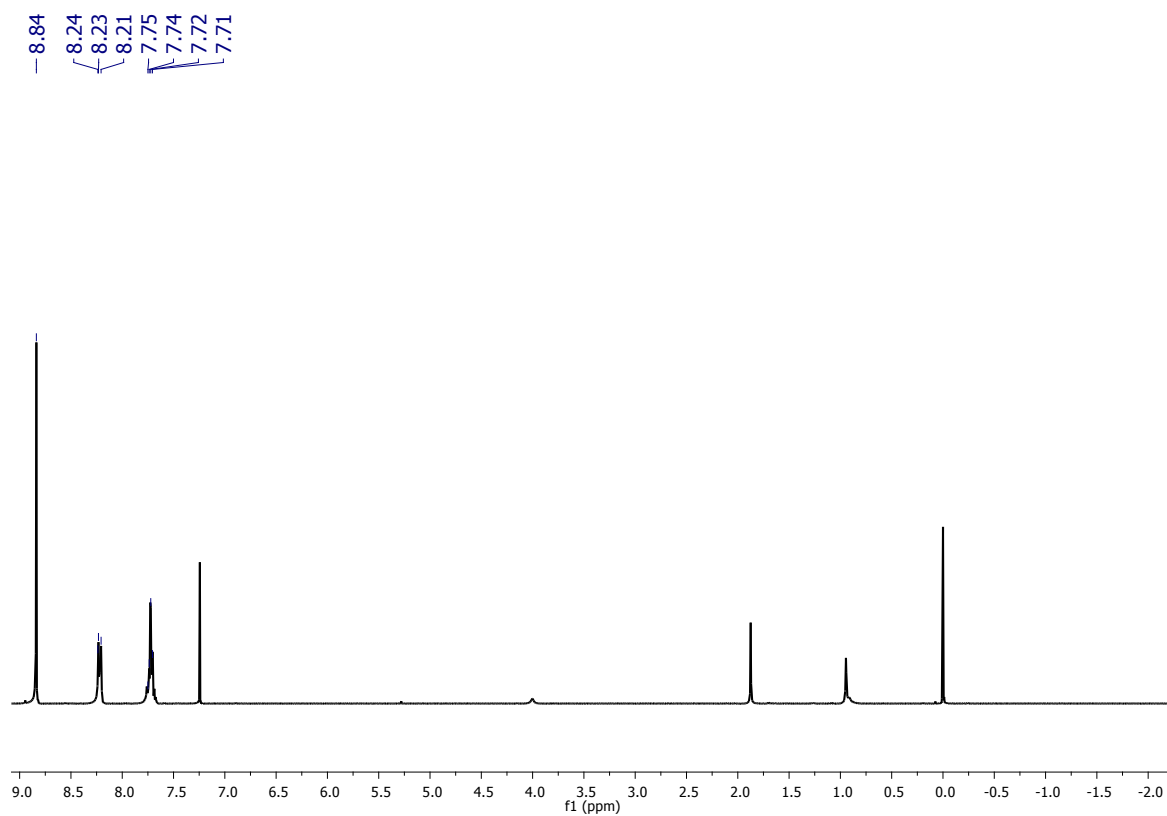


Figure S4. ^1H NMR spectrum for compound **1c**.

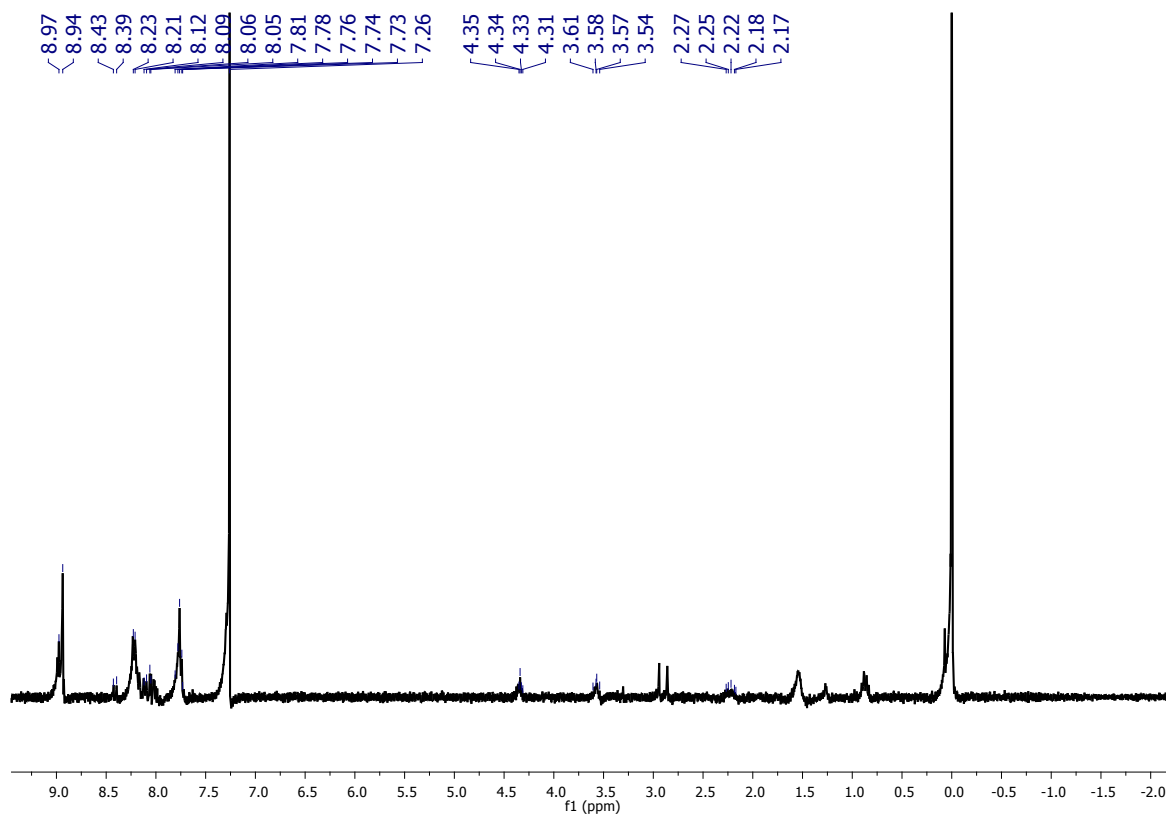


Figure S5. ^1H NMR spectrum for compound **3a**.

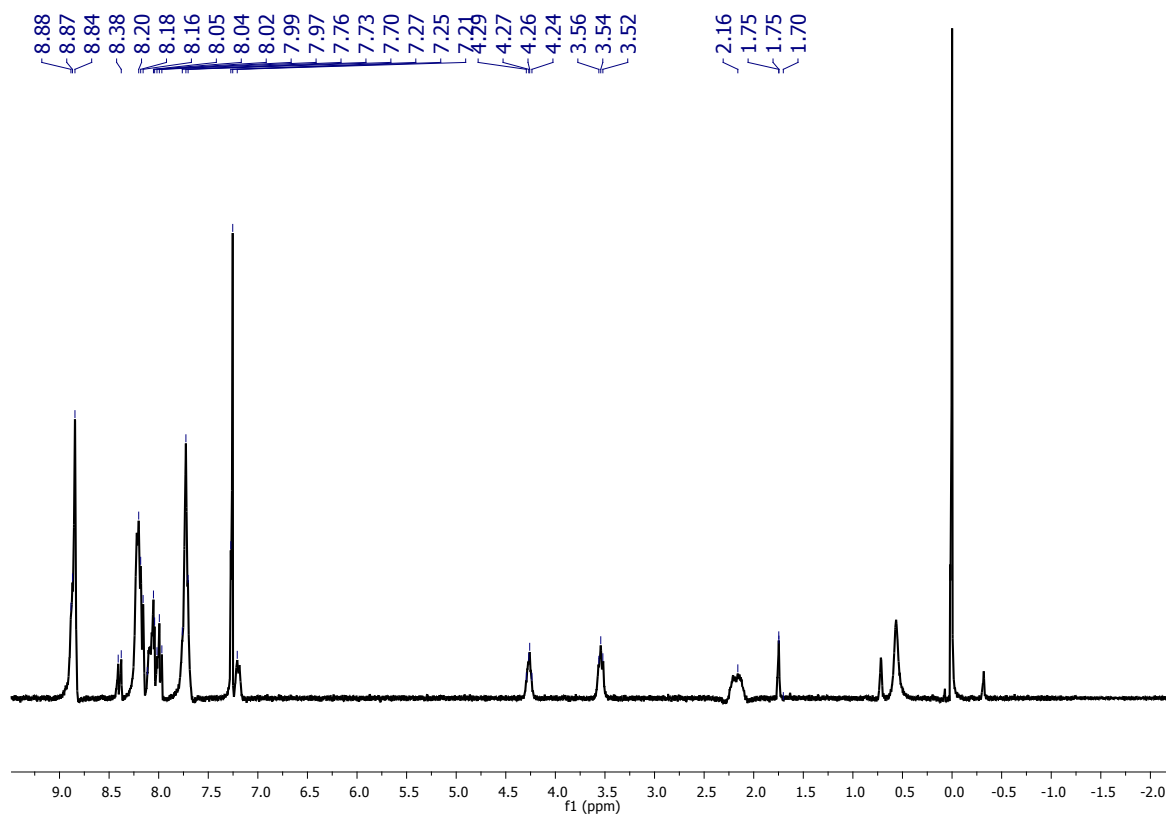


Figure S6. ¹H NMR spectrum for compound **3c**.

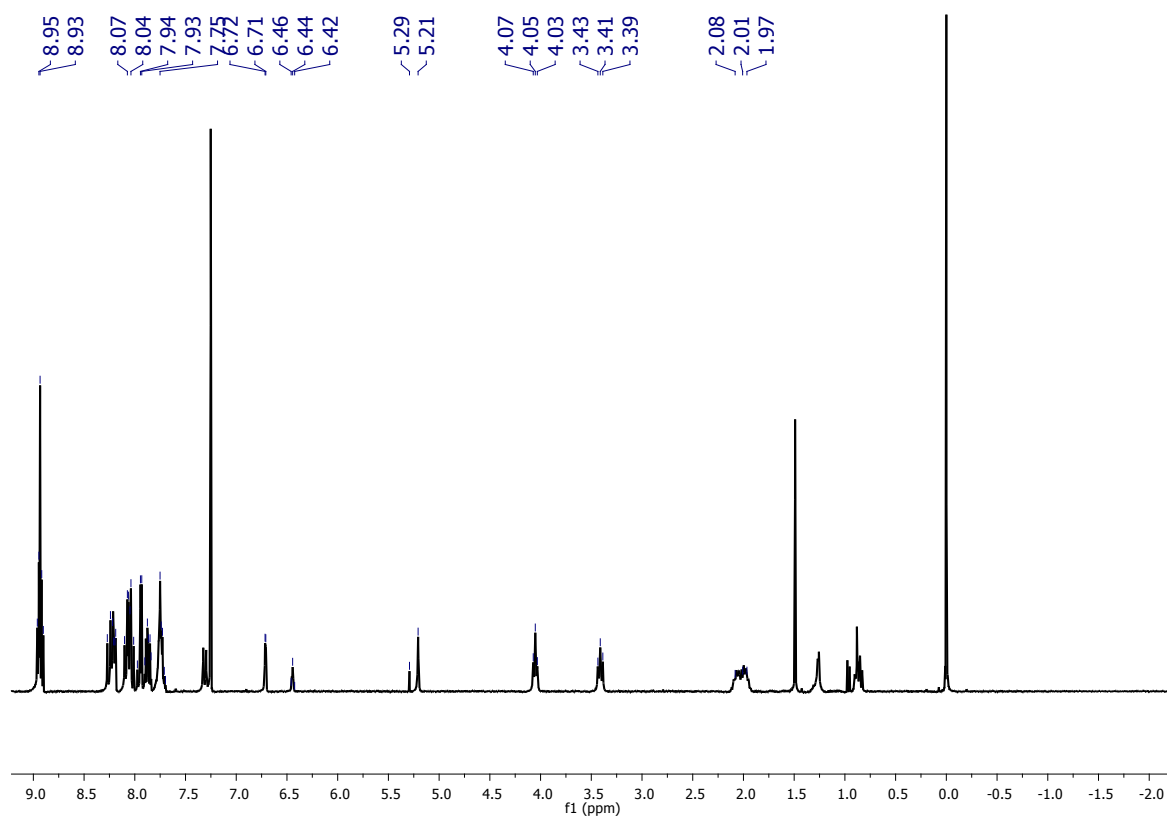


Figure S7. ¹H NMR spectrum for compound **4a**.

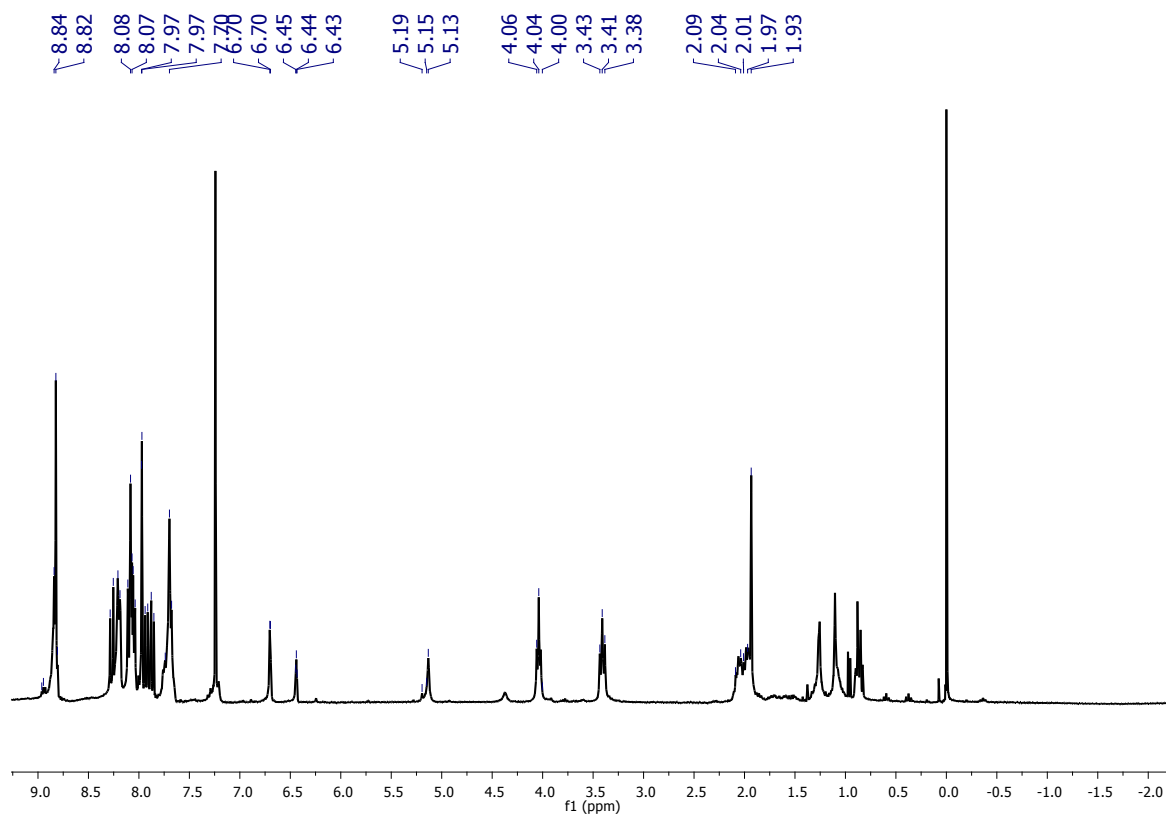


Figure S8. ¹H NMR spectrum for compound 4c.

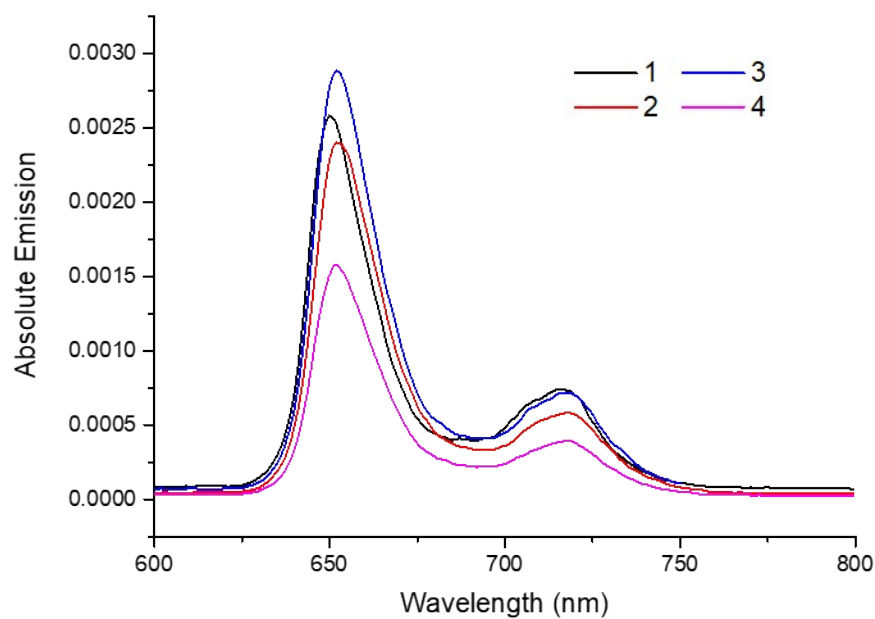


Figure S9. Emission spectra of the free base porphyrins.

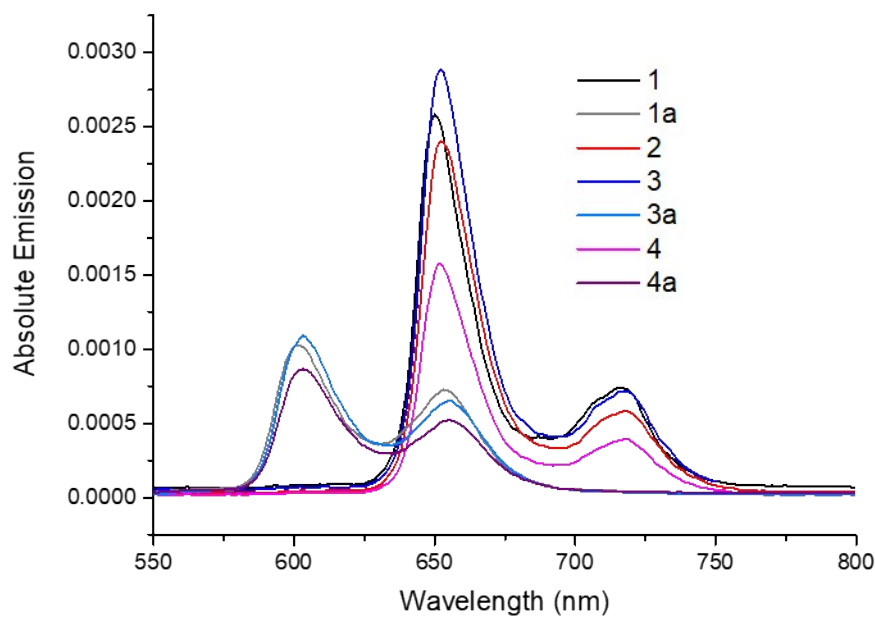


Figure S10. Emission spectra of the free base porphyrins and Zn metallated-porphyrins series.

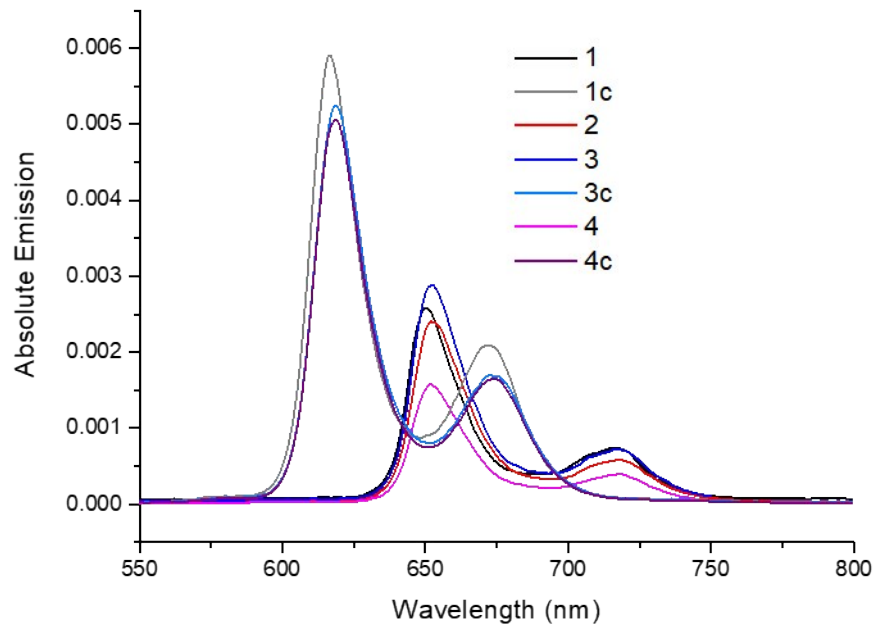


Figure S11. Emission spectra of the free base porphyrins and Mg metallated-porphyrins series.

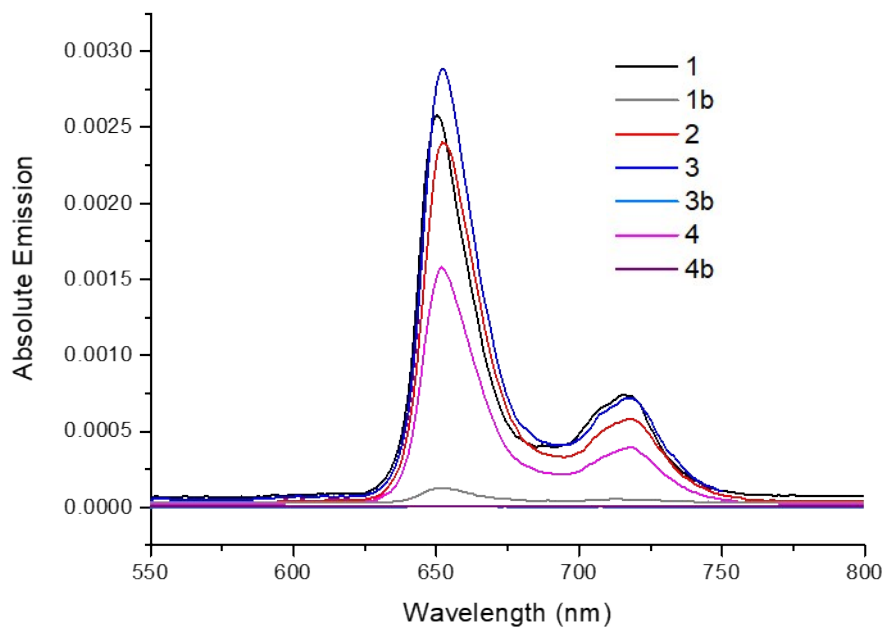


Figure S12. Emission spectra of the free base porphyrins and Cu metallated-porphyrins series.

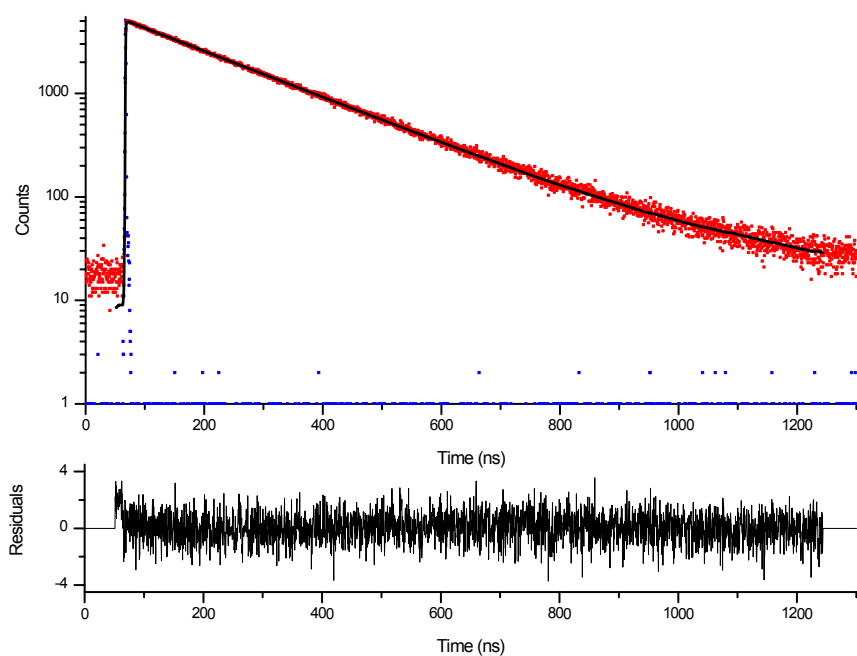


Figure S13. Pyrene ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 378 \text{ nm}$) fluorescence decay of **1-Pyrenebutanol**

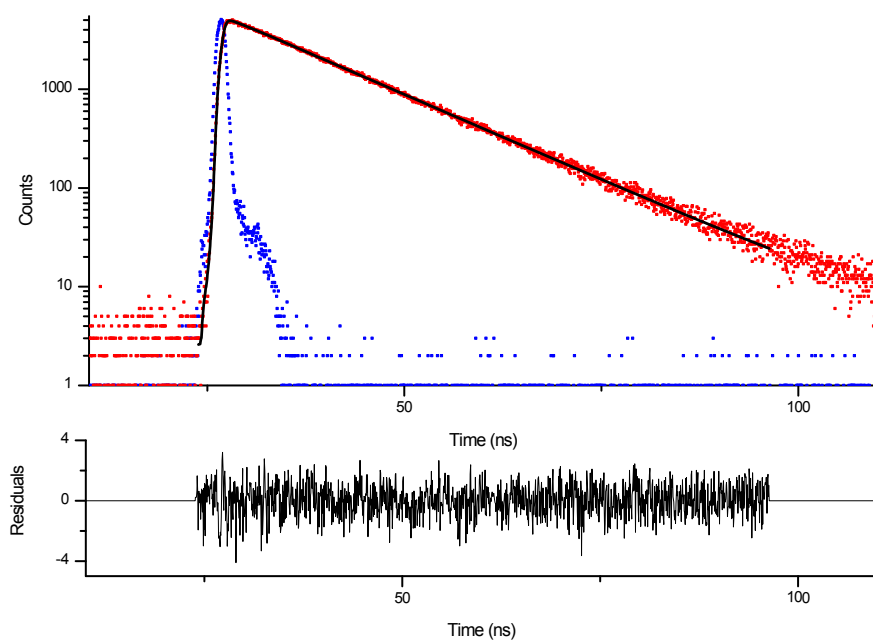


Figure S14. Porphyrin ($\lambda_{\text{ex}} = 425 \text{ nm}$ and $\lambda_{\text{em}} = 650 \text{ nm}$) fluorescence decay of compound **1**

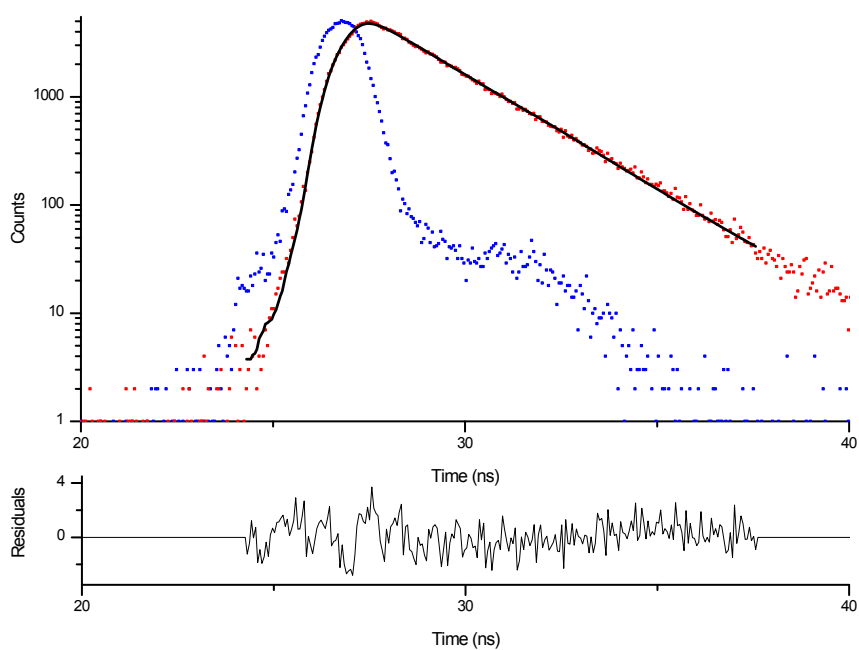


Figure S15. Porphyrin ($\lambda_{\text{ex}} = 425\text{nm}$ and $\lambda_{\text{em}} = 600\text{nm}$) fluorescence decay of compound **1a**

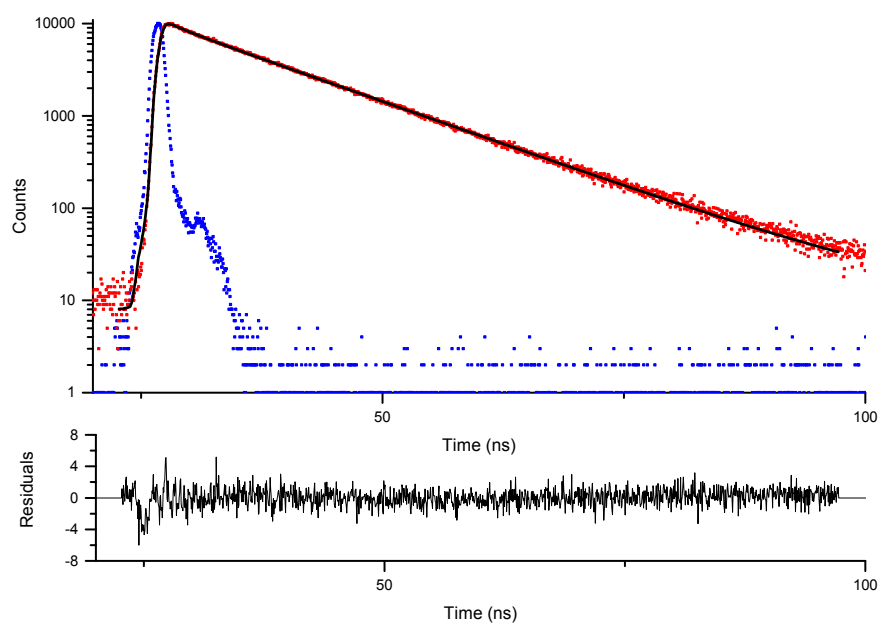


Figure S16. Porphyrin ($\lambda_{\text{ex}} = 425\text{ nm}$ and $\lambda_{\text{em}} = 652\text{ nm}$) fluorescence decay of compound **1b**

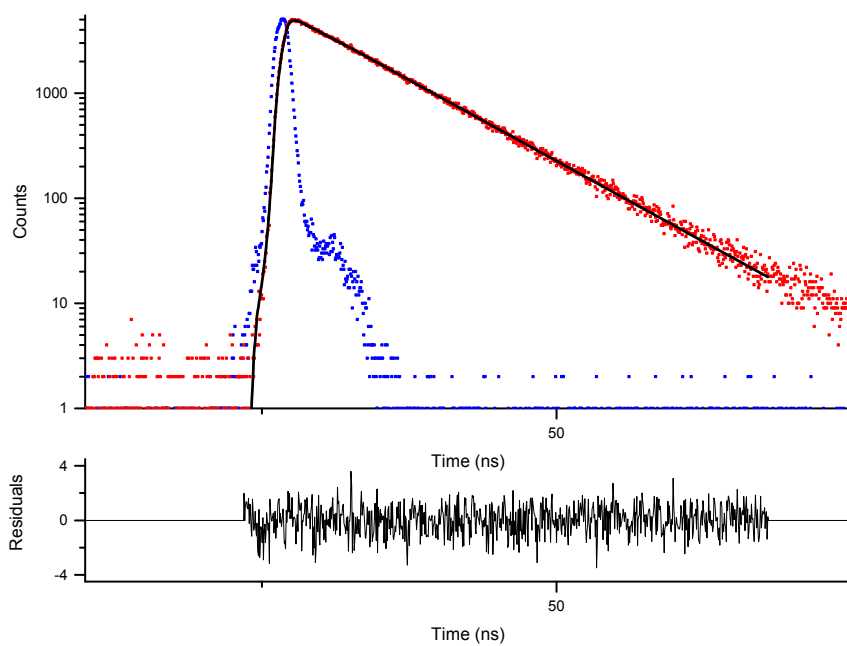


Figure S17. Porphyrin ($\lambda_{\text{ex}} = 425 \text{ nm}$ and $\lambda_{\text{em}} = 650 \text{ nm}$) fluorescence decay of compound **1c**

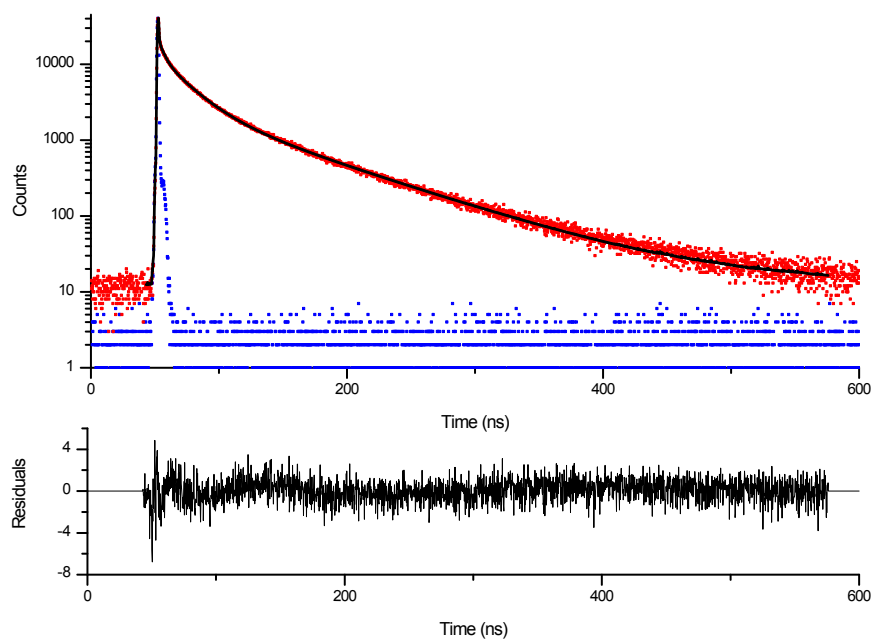


Figure S18. Pyrene ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 378 \text{ nm}$) fluorescence decay of compound **3**

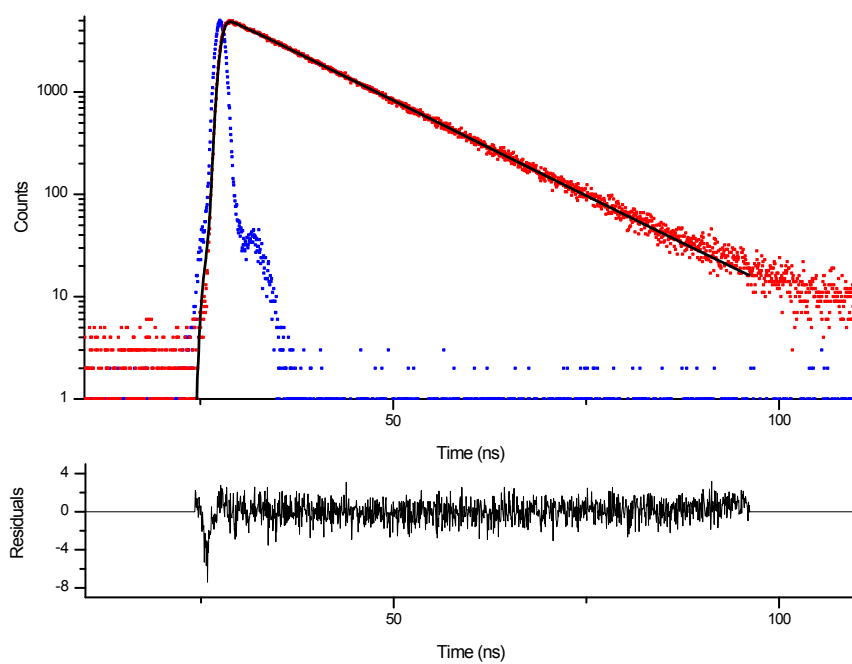


Figure S19. Porphyrin ($\lambda_{\text{ex}} = 344$ nm and $\lambda_{\text{em}} = 600$ nm) fluorescence decay of compound **3**

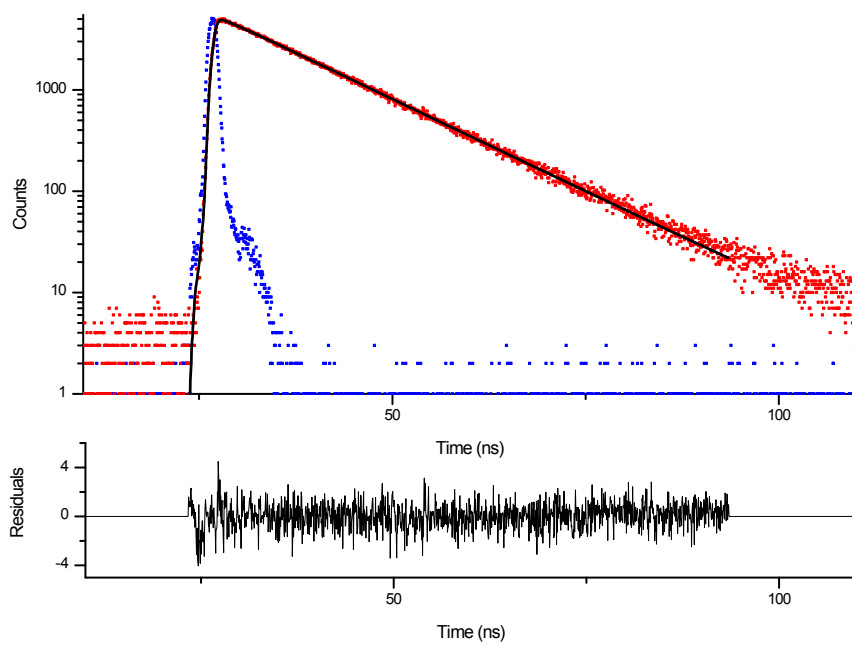


Figure S20. Porphyrin ($\lambda_{\text{ex}} = 425\text{nm}$ and $\lambda_{\text{em}} = 600\text{nm}$) fluorescence decay of compound **3**

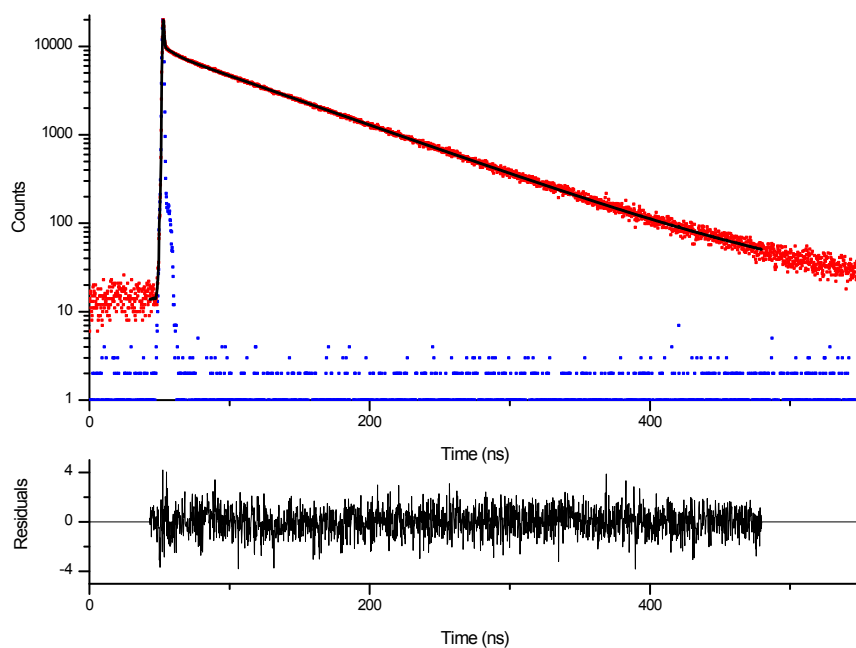


Figure S21. Pyrene ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 378 \text{ nm}$) fluorescence decay of **3a**

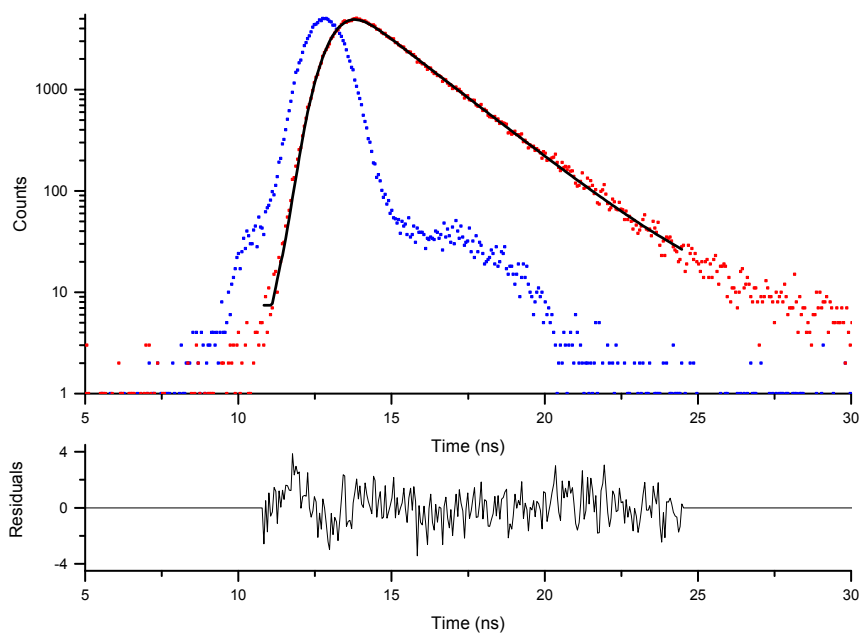


Figure S22. Porphyrin ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 600 \text{ nm}$) fluorescence decay of compound **3a**

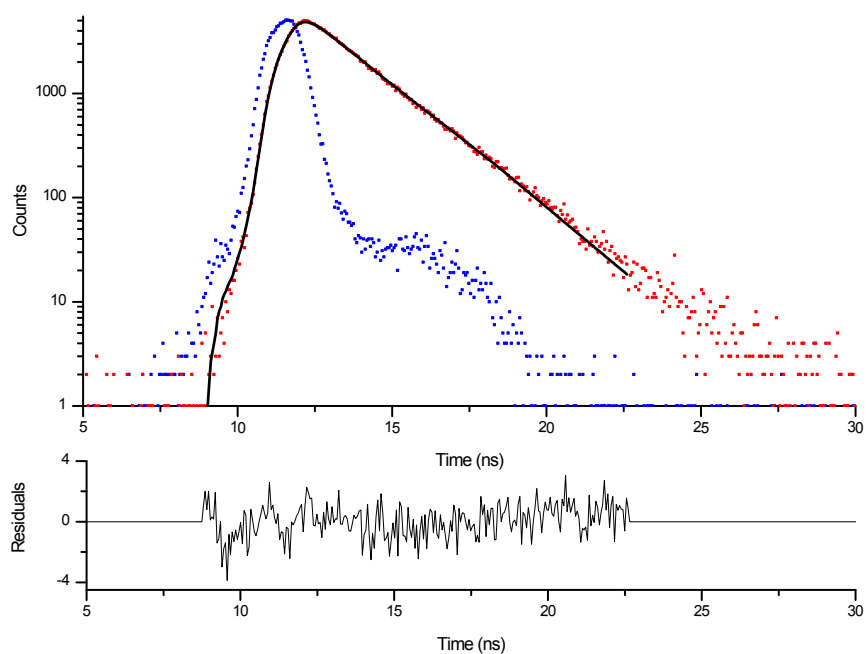


Figure S23. Porphyrin ($\lambda_{\text{ex}} = 425$ nm and $\lambda_{\text{em}} = 600$ nm) fluorescence decay of compound **3a**

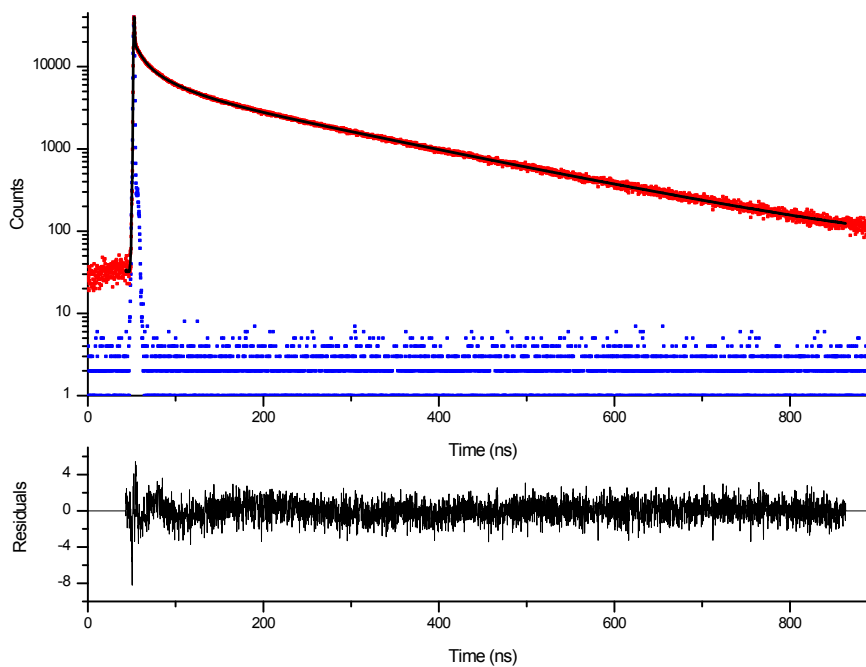


Figure S24. Pyrene ($\lambda_{\text{ex}} = 344$ nm and $\lambda_{\text{em}} = 378$ nm) fluorescence decay of **3b**

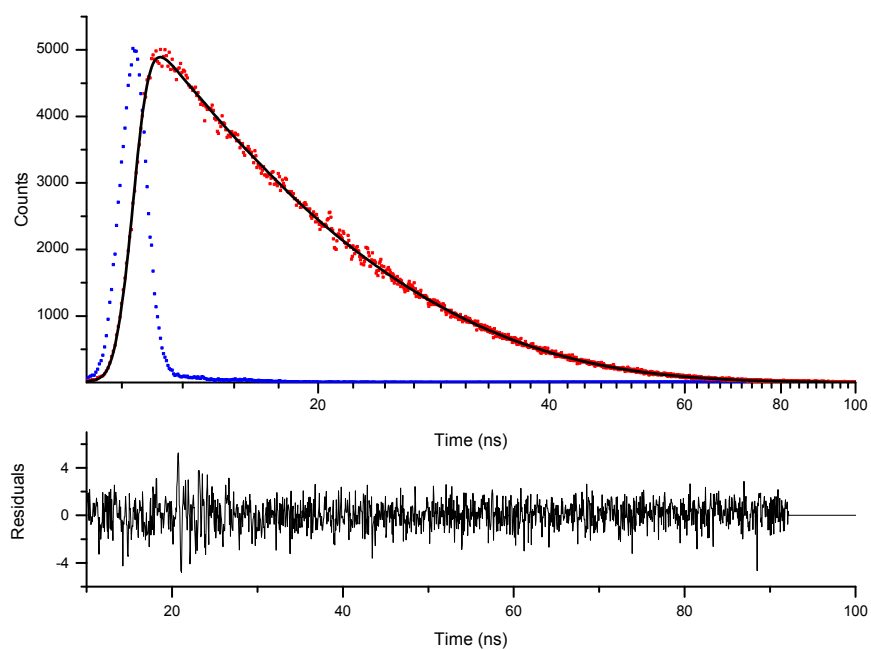


Figure S25. Porphyrin ($\lambda_{\text{ex}} = 425 \text{ nm}$ and $\lambda_{\text{em}} = 652 \text{ nm}$) fluorescence decay of compound **3b**

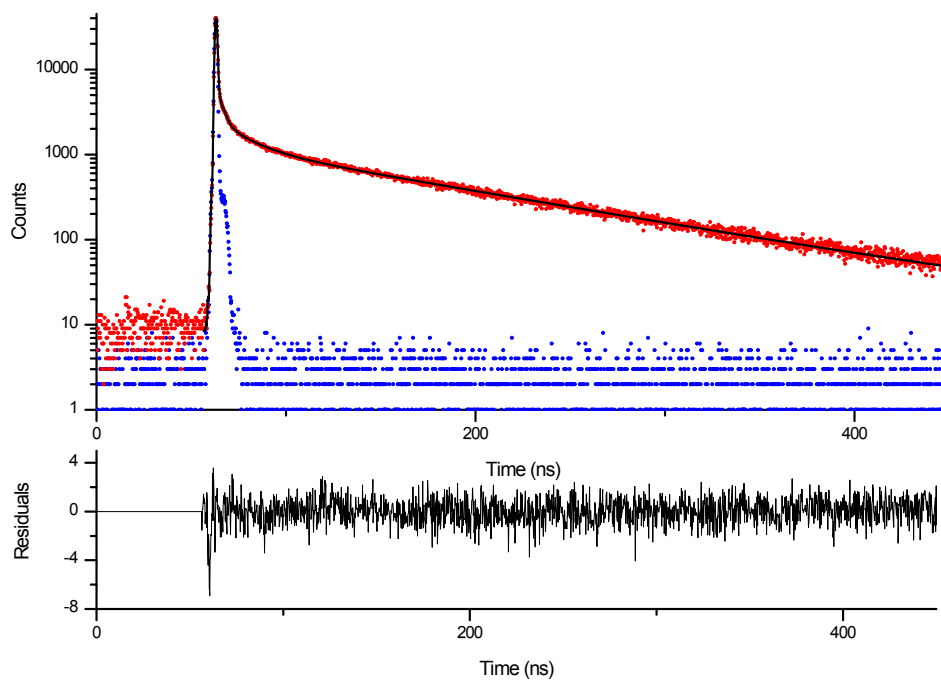


Figure S26. Pyrene ($\lambda_{\text{ex}} = 344$ nm and $\lambda_{\text{em}} = 378$ nm) fluorescence decay of **3c**

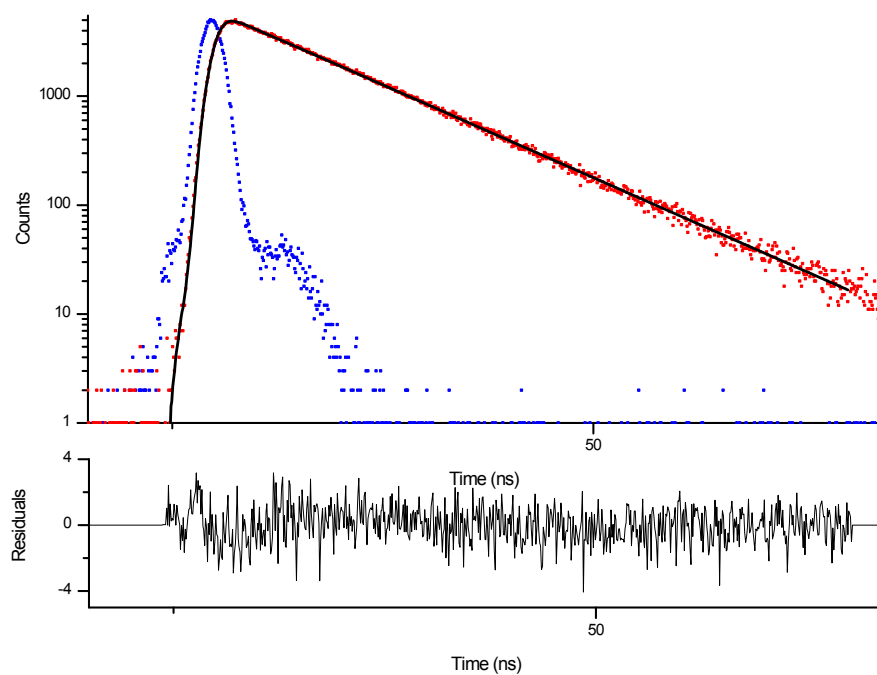


Figure S27. Porphyrin ($\lambda_{\text{ex}} = 344$ nm and $\lambda_{\text{em}} = 617$ nm) fluorescence decay of compound **3c**

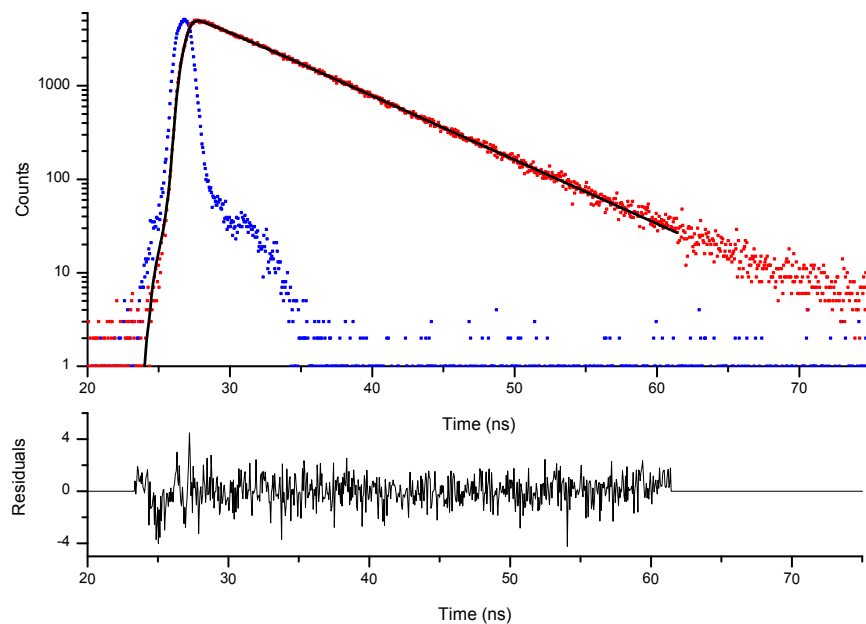


Figure S28. Porphyrin ($\lambda_{\text{ex}} = 425 \text{ nm}$ and $\lambda_{\text{em}} = 617 \text{ nm}$) fluorescence decay of compound **3c**

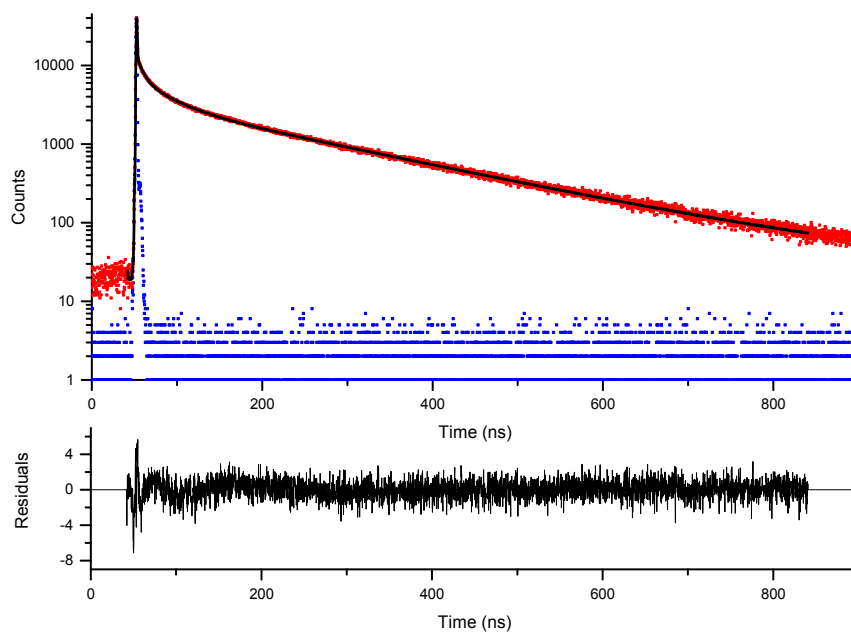


Figure S29. Pyrene ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 378 \text{ nm}$) fluorescence decay of **3d**

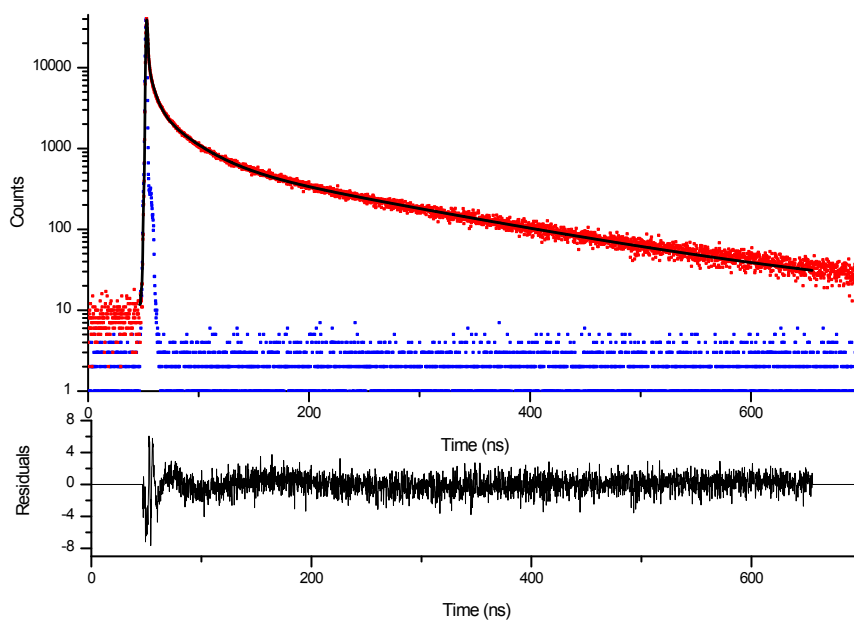


Figure S30. Pyrene ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 378 \text{ nm}$) fluorescence decay of **4**

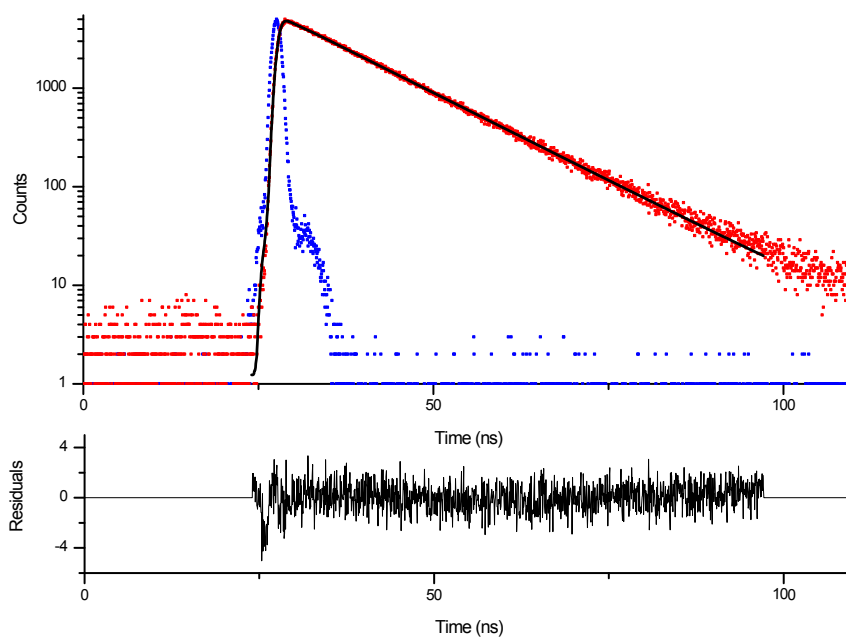


Figure S31. Porphyrin ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 652 \text{ nm}$) fluorescence decay of compound **4**

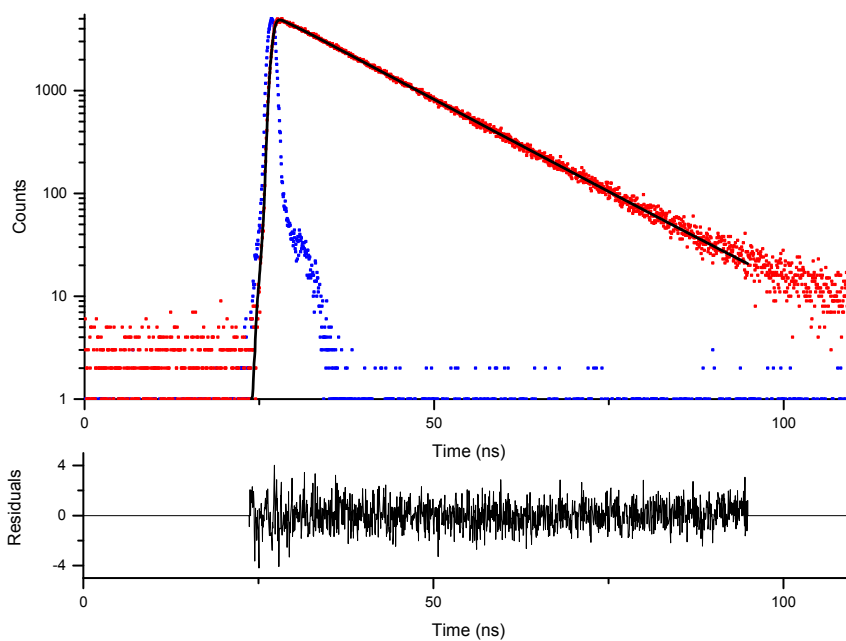


Figure S32. Porphyrin ($\lambda_{\text{ex}} = 425 \text{ nm}$ and $\lambda_{\text{em}} = 652 \text{ nm}$) fluorescence decay of compound **4**

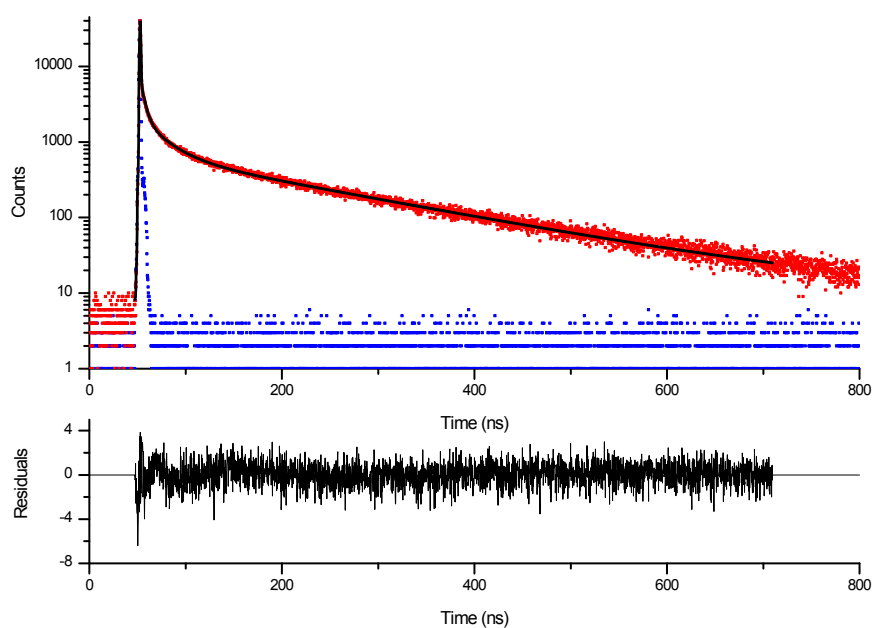


Figure S33. Pyrene ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 378 \text{ nm}$) fluorescence decay of **4a**

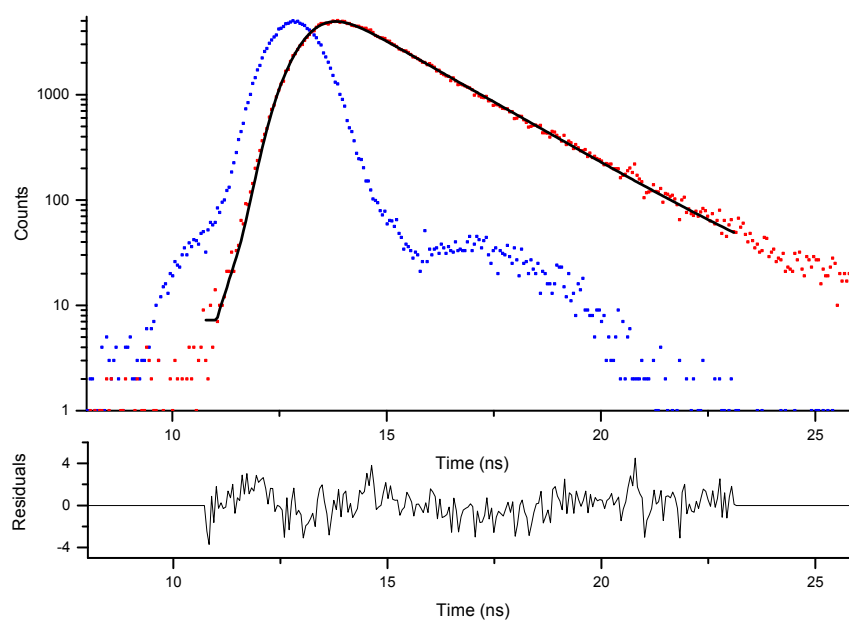


Figure S34. Porphyrin ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 600 \text{ nm}$) fluorescence decay of compound **4a**

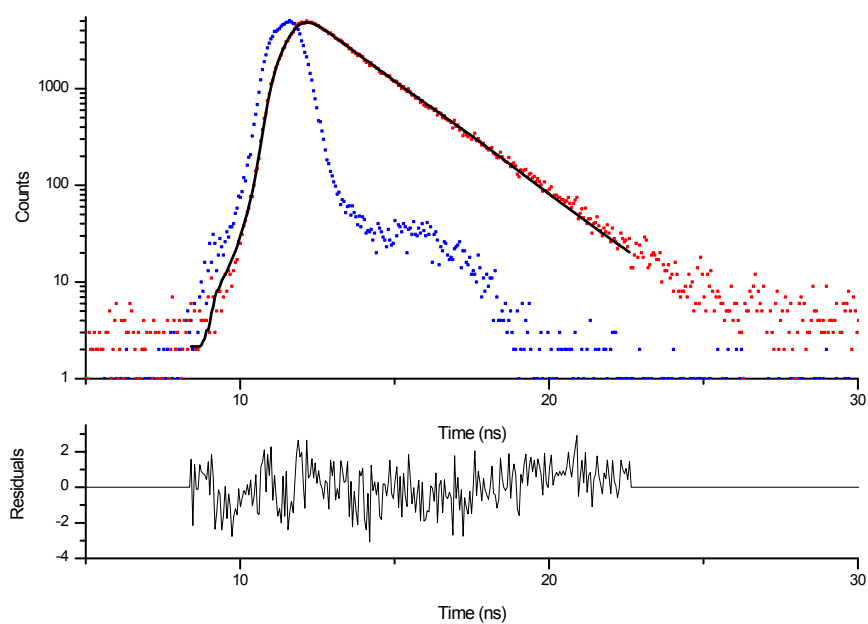


Figure S35. Porphyrin ($\lambda_{\text{ex}} = 425$ nm and $\lambda_{\text{em}} = 600$ nm) fluorescence decay of compound **4a**

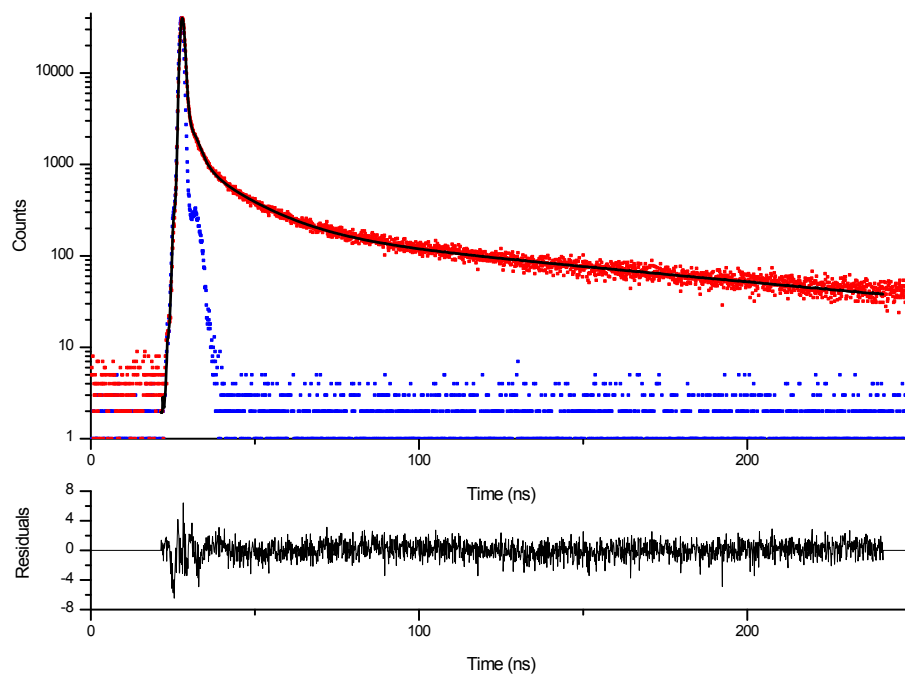


Figure S36. Pyrene ($\lambda_{\text{ex}} = 344$ nm and $\lambda_{\text{em}} = 378$ nm) fluorescence decay of **4b**

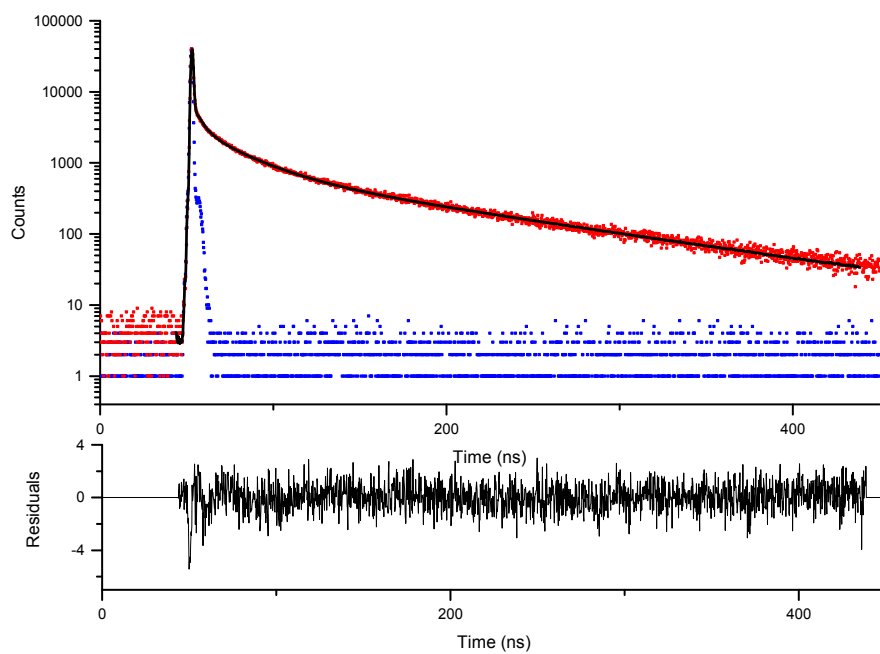


Figure S37. Pyrene ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 378 \text{ nm}$) fluorescence decay of **4c**

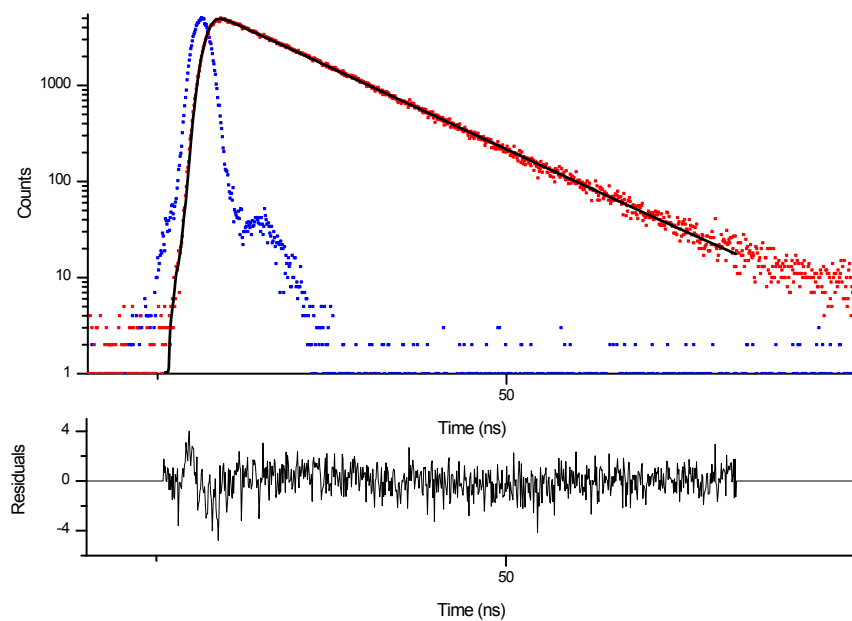


Figure S38. Porphyrin ($\lambda_{\text{ex}} = 344 \text{ nm}$ and $\lambda_{\text{em}} = 617 \text{ nm}$) fluorescence decay of compound **4c**

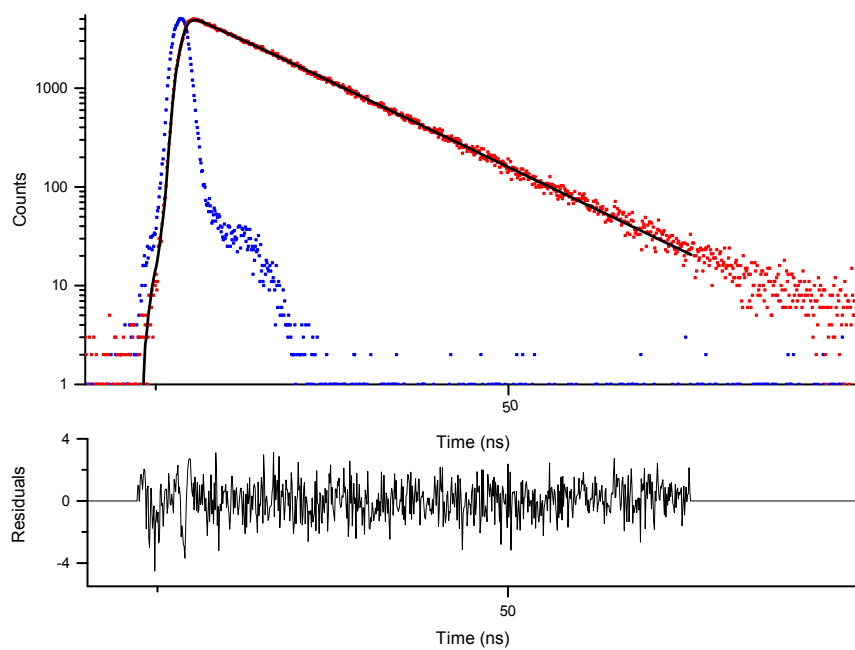


Figure S39. Porphyrin ($\lambda_{\text{ex}} = 425$ nm and $\lambda_{\text{em}} = 617$ nm) fluorescence decay of compound **4c**

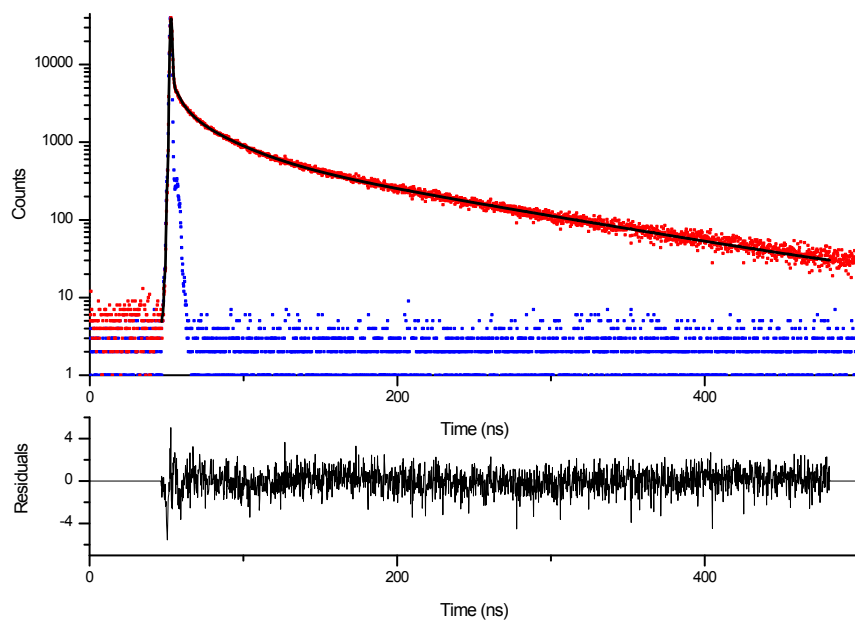
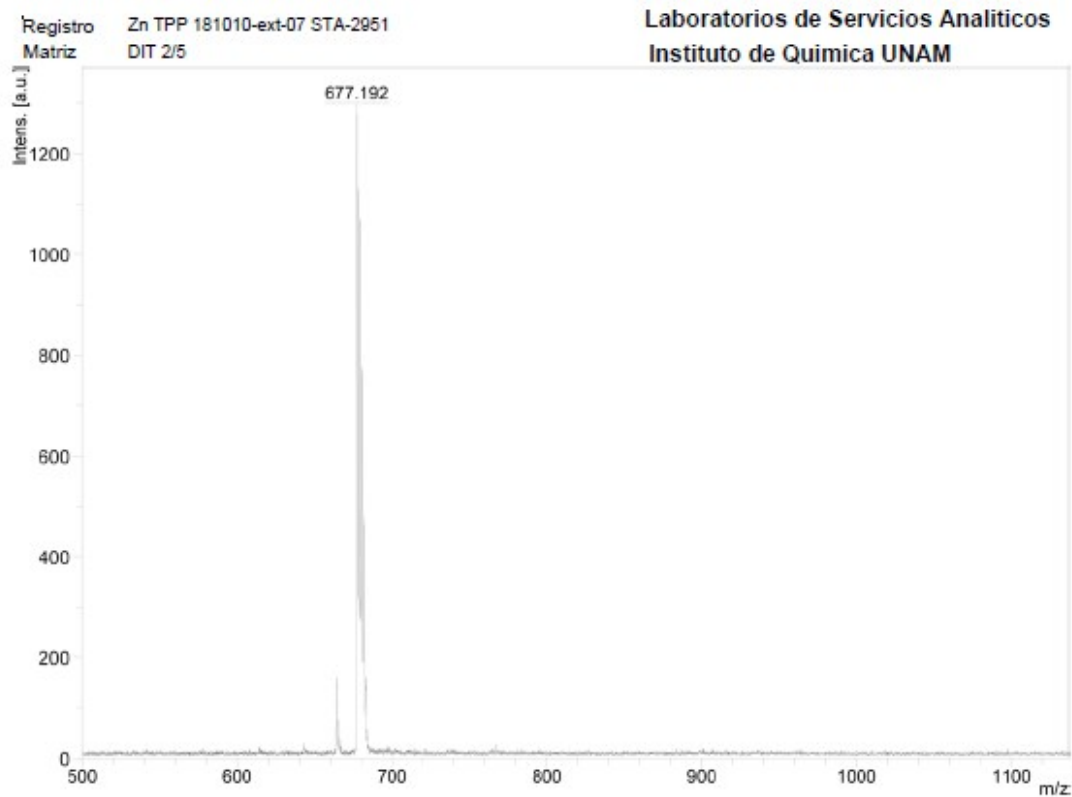


Figure S40. Pyrene ($\lambda_{\text{ex}} = 344$ nm and $\lambda_{\text{em}} = 378$ nm) fluorescence decay of **4d**

MALDI-TOF Mass Spectra of compound **1a**

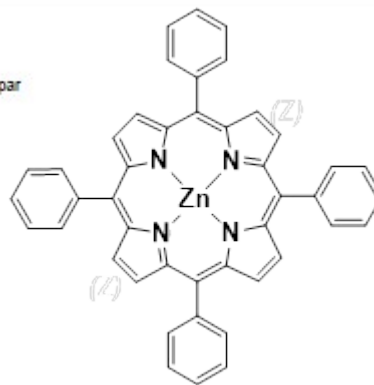


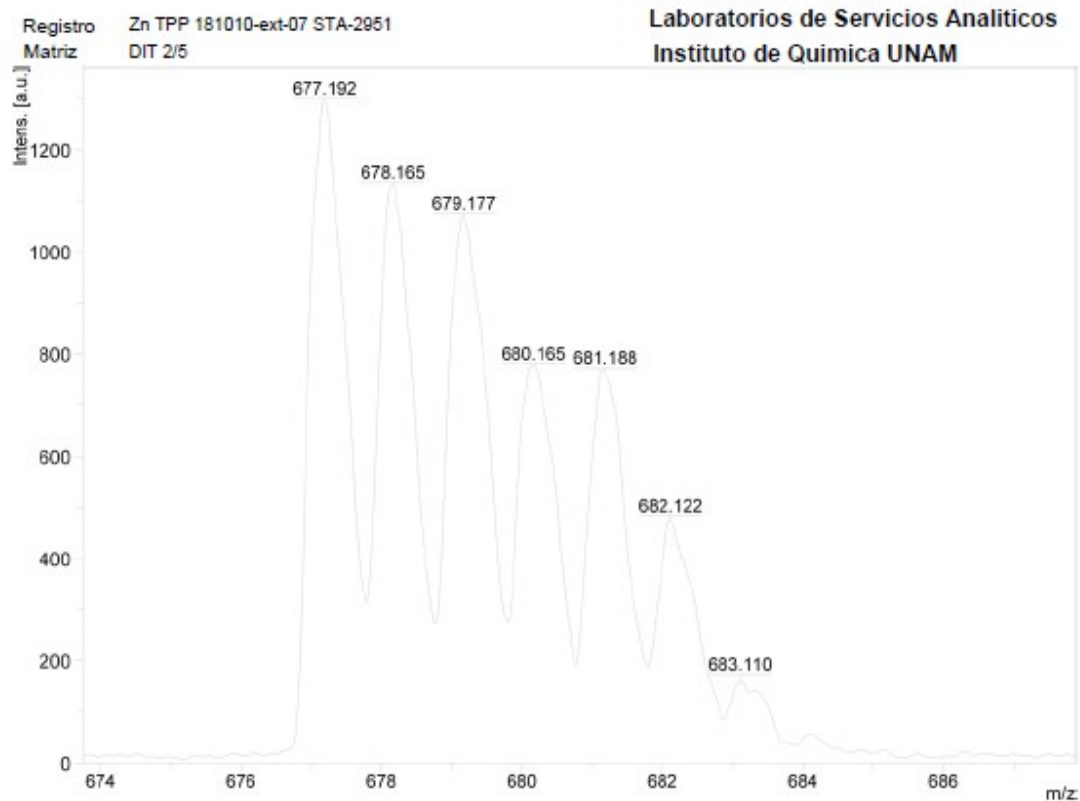
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Name of spectrum used for calibration	
Calibration reference list used	

Instrument Info

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Instrument	FLEX-PC
Instrument type	microflex
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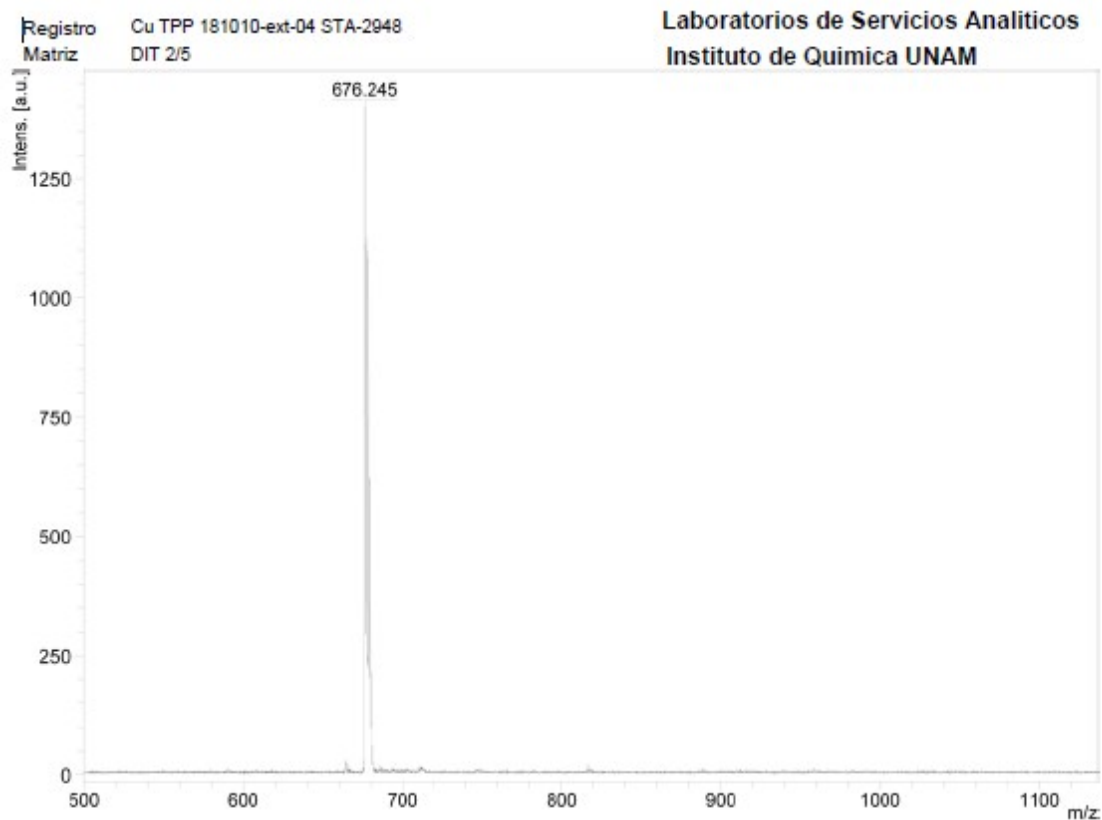
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Voltage polarity POS
Number of shots 150
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex
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MALDI-TOF Mass Spectra of compound **1b**

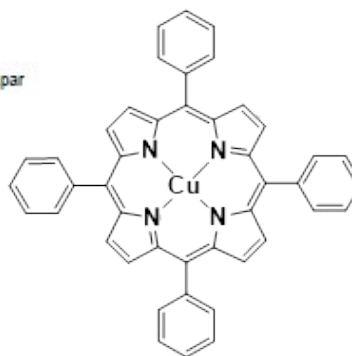


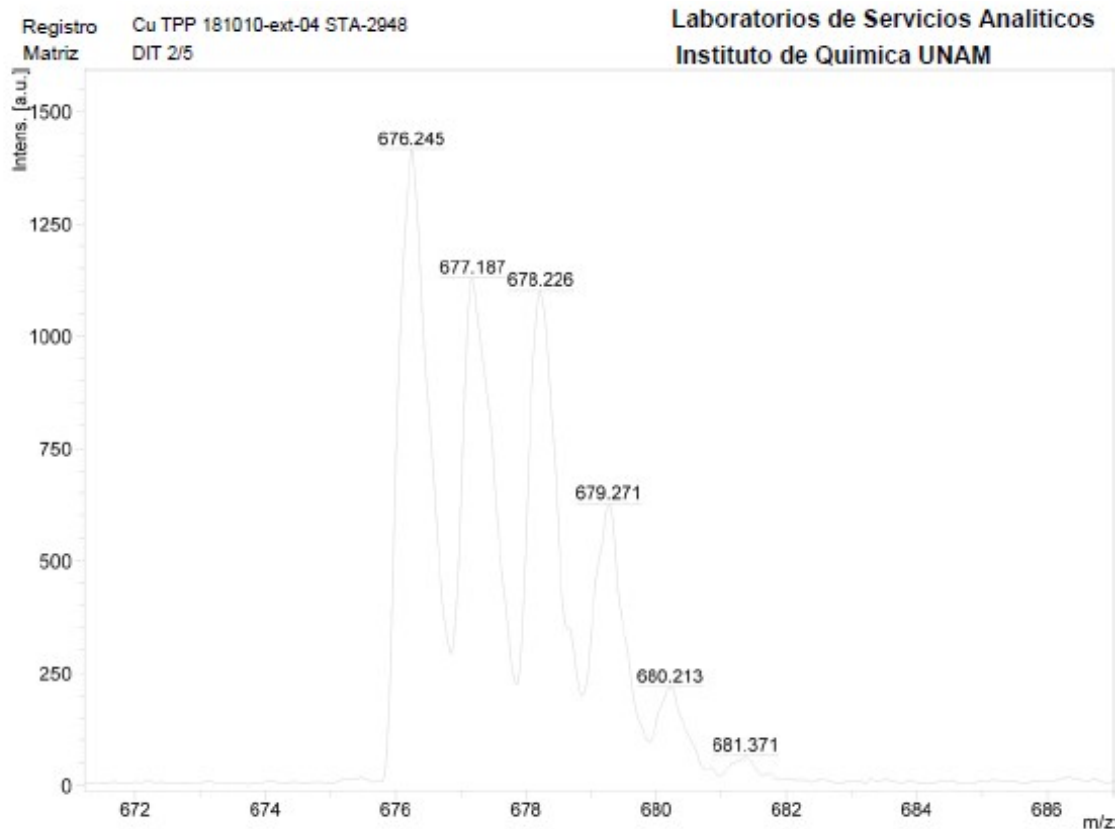
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Voltage polarity POS
Number of shots 79
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex
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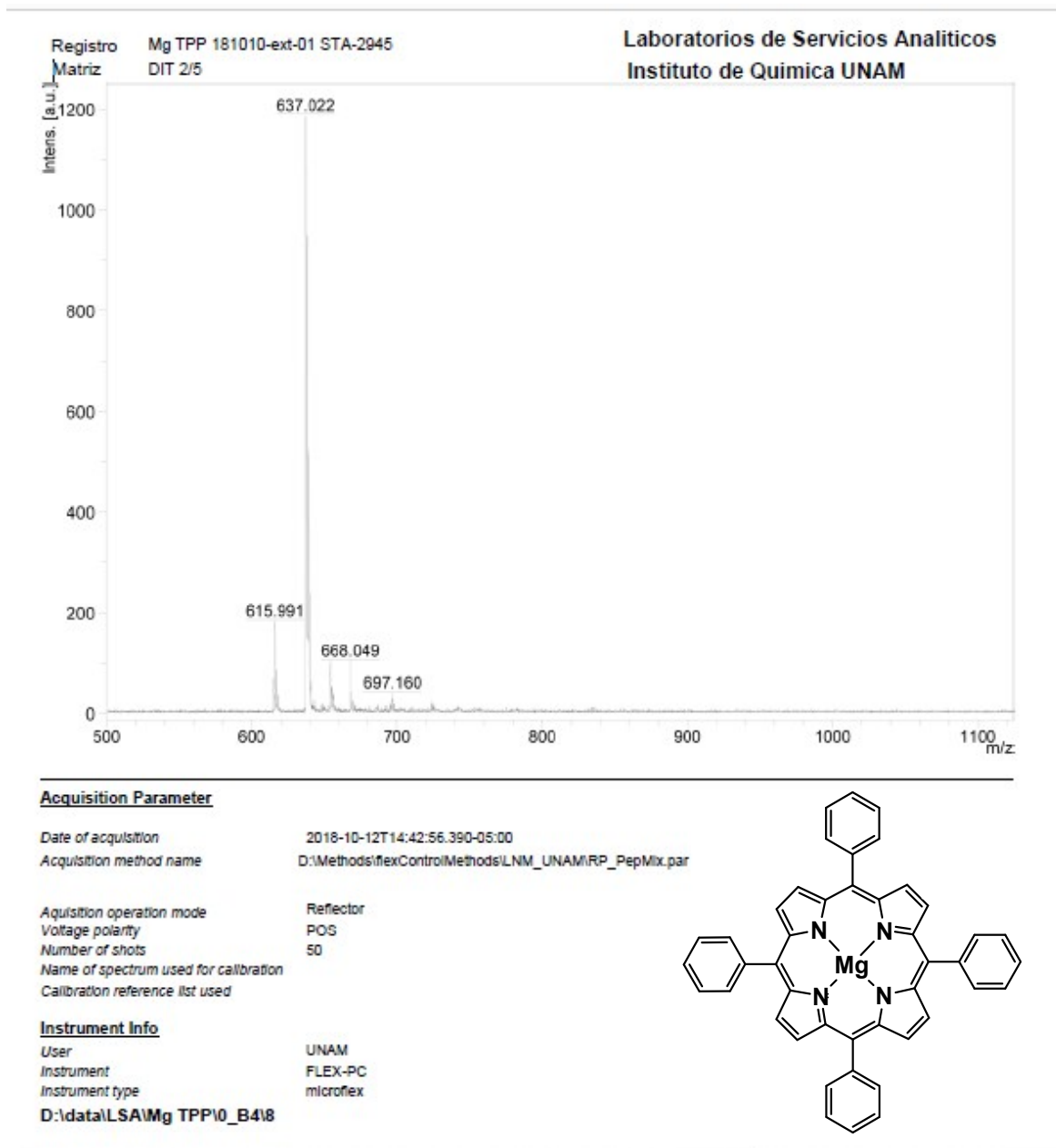
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Instrument Info

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Instrument	FLEX-PC
Instrument type	microflex

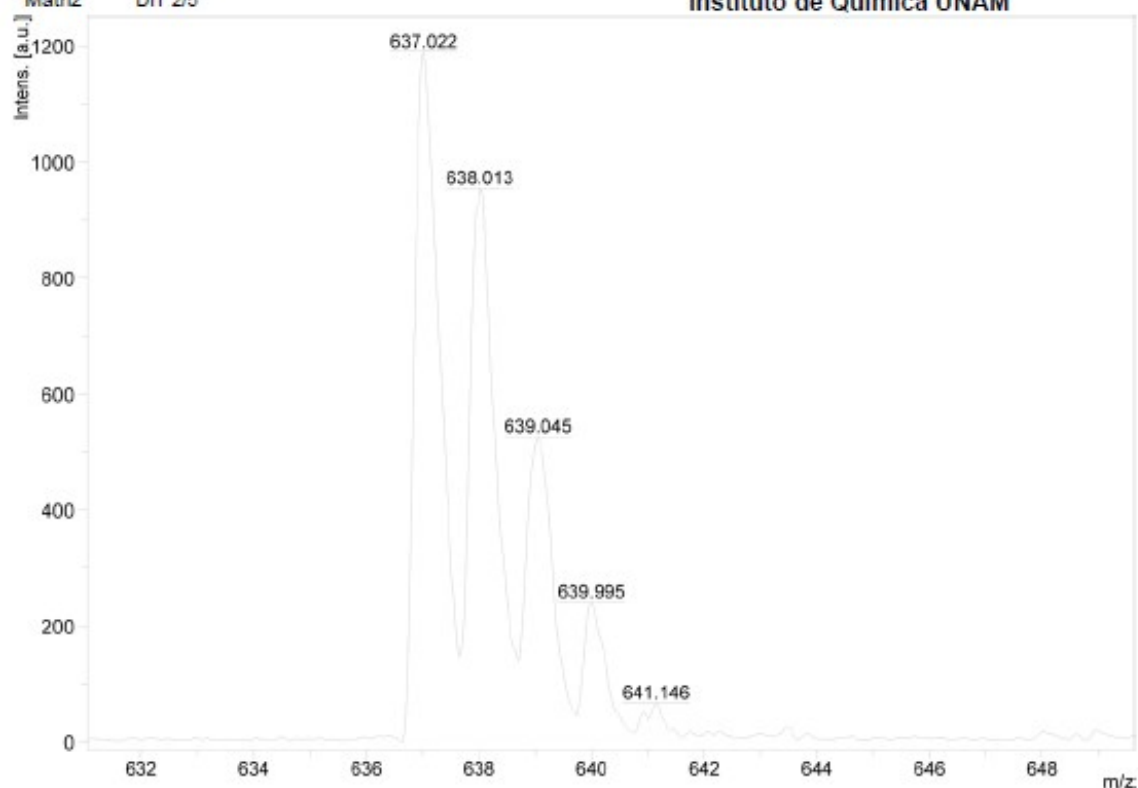
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MALDI-TOF Mass Spectra of compound **1c**



Registro Mg TPP 181010-ext-01 STA-2945
Matriz DIT 2/5

Laboratorios de Servicios Analíticos
Instituto de Química UNAM



Acquisition Parameter

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Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex

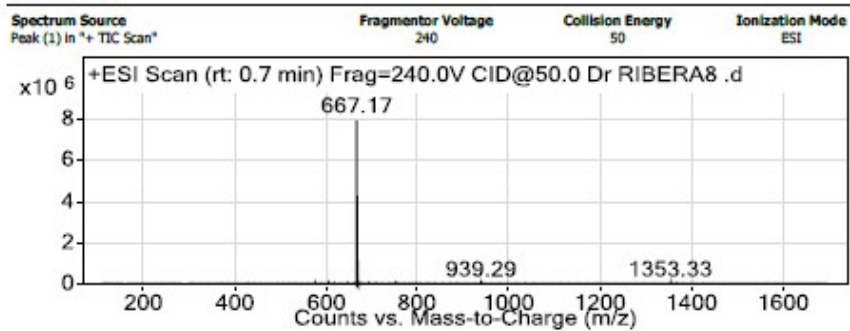
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ESI Mass Spectra of compound **1d**

Qualitative Analysis Report

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Instrument Name	LC QTOF_LANCIE	User Name	
Acq Method	iny dir.m	Acquired Time	3/22/2018 2:02:52 PM
IRM Calibration Status	Success	DA Method	carmen1.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW	6200 series TOF/6500 series
		Version	Q-TOF B.06.01 (B6172 SP1)

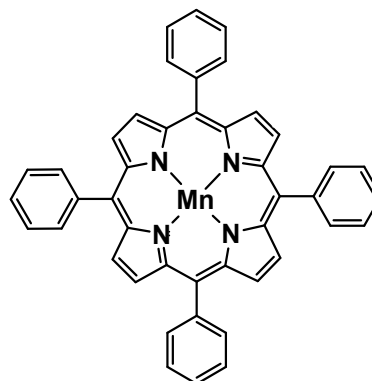
User Spectra



Peak List

m/z	z	Abund
667.17	1	8199664.68
667.38	1	485412.49
668.17	1	4312856.97
668.38	1	222779.76
669.17	1	1138747.85
670.18	1	155443.57
671.18	1	16320.41
939.29	1	10041.17
1353.33	1	9903.76
1354.34	1	10084.66

--- End Of Report ---

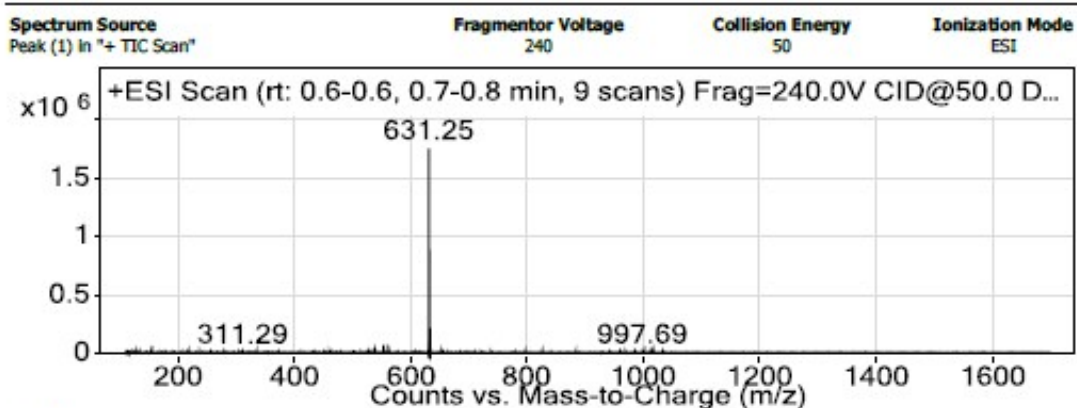


ESI Mass Spectra of compound 2

Qualitative Analysis Report

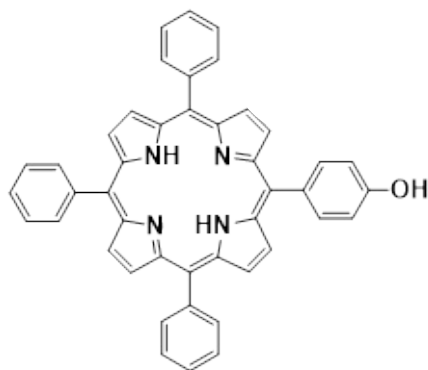
Data Filename	Dr RIBERA4 .d	Sample Name	PorfOH
Sample Type	Sample	Position	P1-C4
Instrument Name	LC QTOF_LANCIC	User Name	
Acq Method	iny dir.m	Acquired Time	3/22/2018 1:34:41 PM
IRM Calibration Status	Success	DA Method	carmen1.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW	6200 series TOF/6500 series
		Version	Q-TOF B.06.01 (B6172 SP1)

User Spectra



Peak List

m/z	z	Abund
538.21	1	15664.7
554.21	1	64185.43
555.21	1	26698.37
605.42	1	12288.18
619.44	1	12967.75
630.24		22471.66
631.25	1	1746965.39
632.25	1	892059.04
633.26	1	213175.6
634.26	1	34521.56

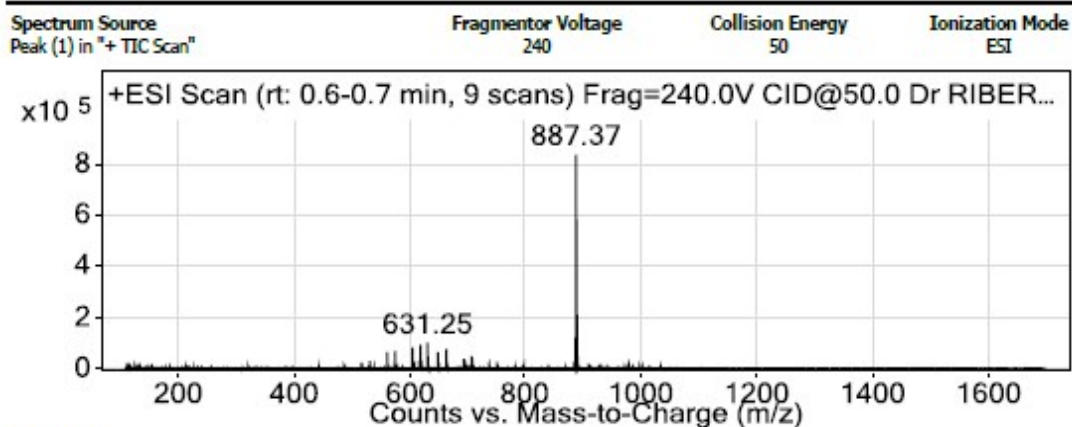


ESI Mass Spectra of compound 3

Qualitative Analysis Report

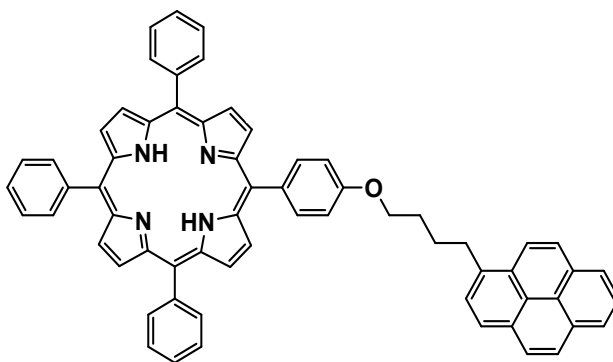
Data Filename	Dr RIBERA5 .d	Sample Name	PorfOPy
Sample Type	Sample	Position	P1-C5
Instrument Name	LC QTOF_LANCIC	User Name	
Acq Method	iny dir.m	Acquired Time	3/22/2018 1:41:44 PM
IRM Calibration Status	Success	DA Method	carmen1.m
Comment			
Sample Group			
Stream Name	LC 1	Info.	
		Acquisition SW	6200 series TOF/6500 series
		Version	Q-TOF B.06.01 (B6172 SP1)

User Spectra

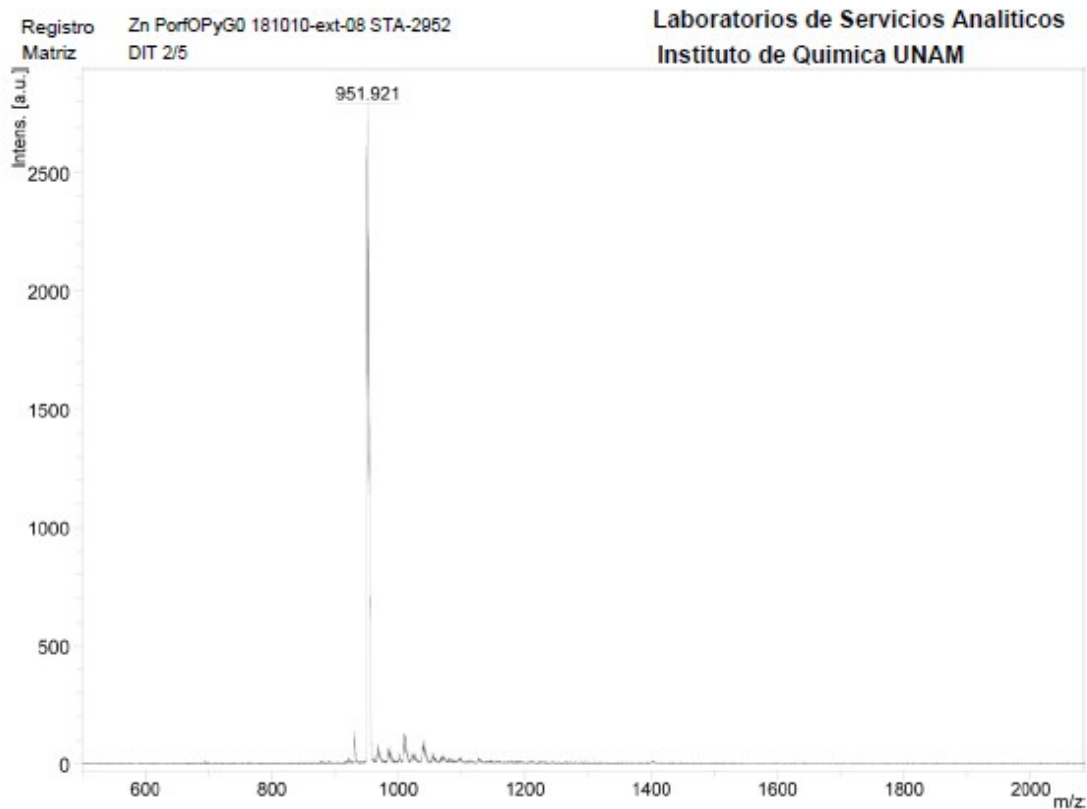


Peak List

m/z	z	Abund
561.4	1	64202.15
575.41	1	71448.57
605.42	1	82645.98
619.44	1	93351.48
631.25	1	100325.32
649.45	1	63898
663.46	1	77419.62
887.37	1	842635.46
888.38	1	596197.91
889.38	1	209165.52



MALDI-TOF Mass Spectra of compound **3a**



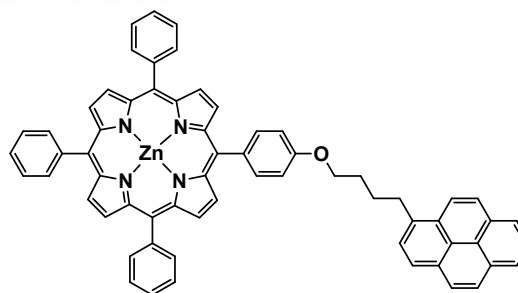
Acquisition Parameter

Date of acquisition	2018-10-12T16:16:22.890-05:00
Acquisition method name	D:\Methods\flexControl\Methods\LNM_UNAM\RP_PepMix.par
Acquisition operation mode	Reflector
Voltage polarity	POS
Number of shots	50
Name of spectrum used for calibration	
Calibration reference list used	

Instrument Info

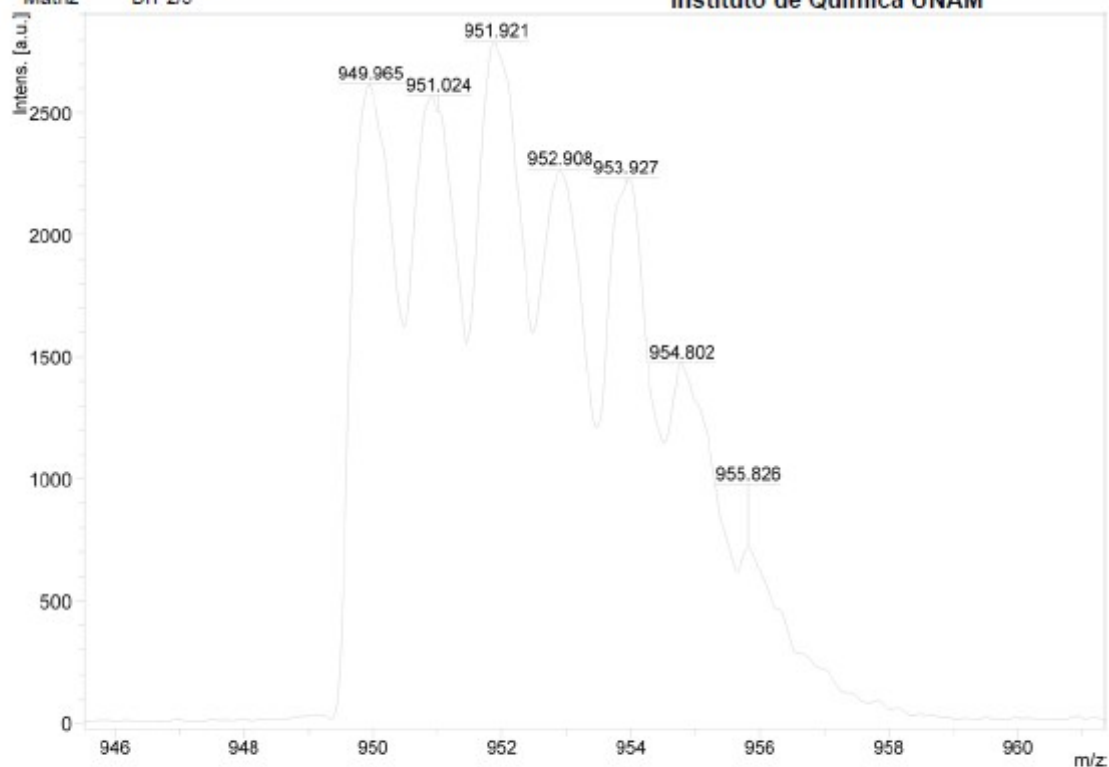
User	UNAM
Instrument	FLEX-PC
Instrument type	microflex

D:\data\LSA\Zn PorfOPyG0\0_D10\1



Registro Zn PorfOPyG0 181010-ext-08 STA-2952
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Acquisition Parameter

Date of acquisition 2018-10-12T16:16:22.890-05:00
Acquisition method name D:\Methods\flexControlMethods\INM_UNAM\RP_PepMix.par

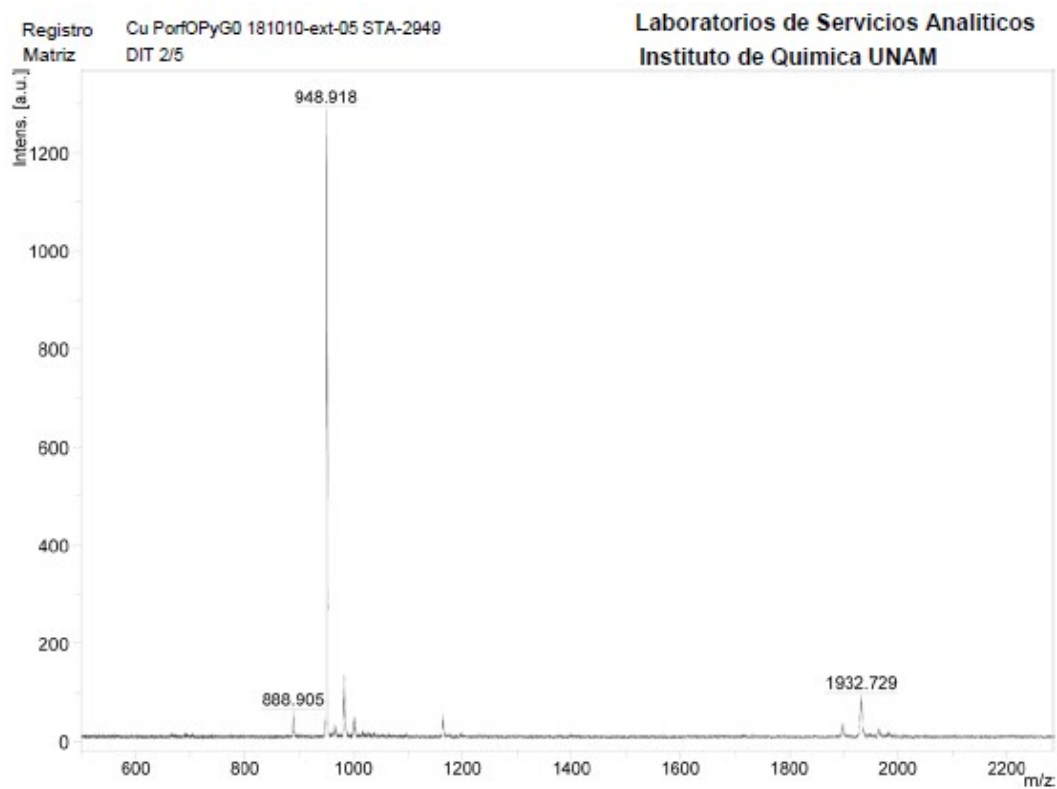
Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 50
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex

D:\data\LSA\Zn PorfOPyG0\0_D10\1

MALDI-TOF Mass Spectra of compound **3b**



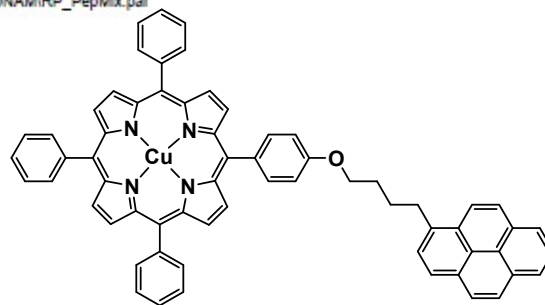
Acquisition Parameter

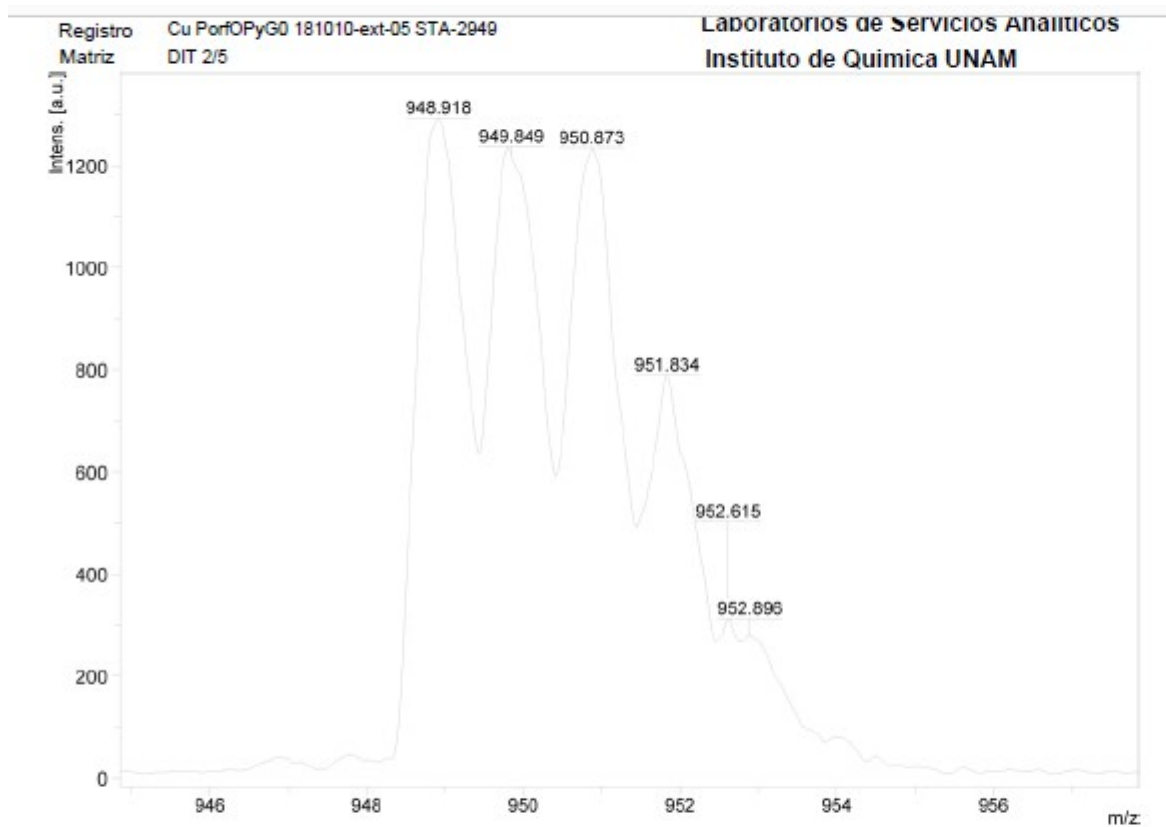
Date of acquisition 2016-10-12T15:44:01.890-05:00
Acquisition method name D:\Methods\flexControl\Methods\LNM_UNAM\RP_PepMix.par
Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 150
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex

D:\data\LSA\Cu PorfOPyG0\0_D4\2





Acquisition Parameter

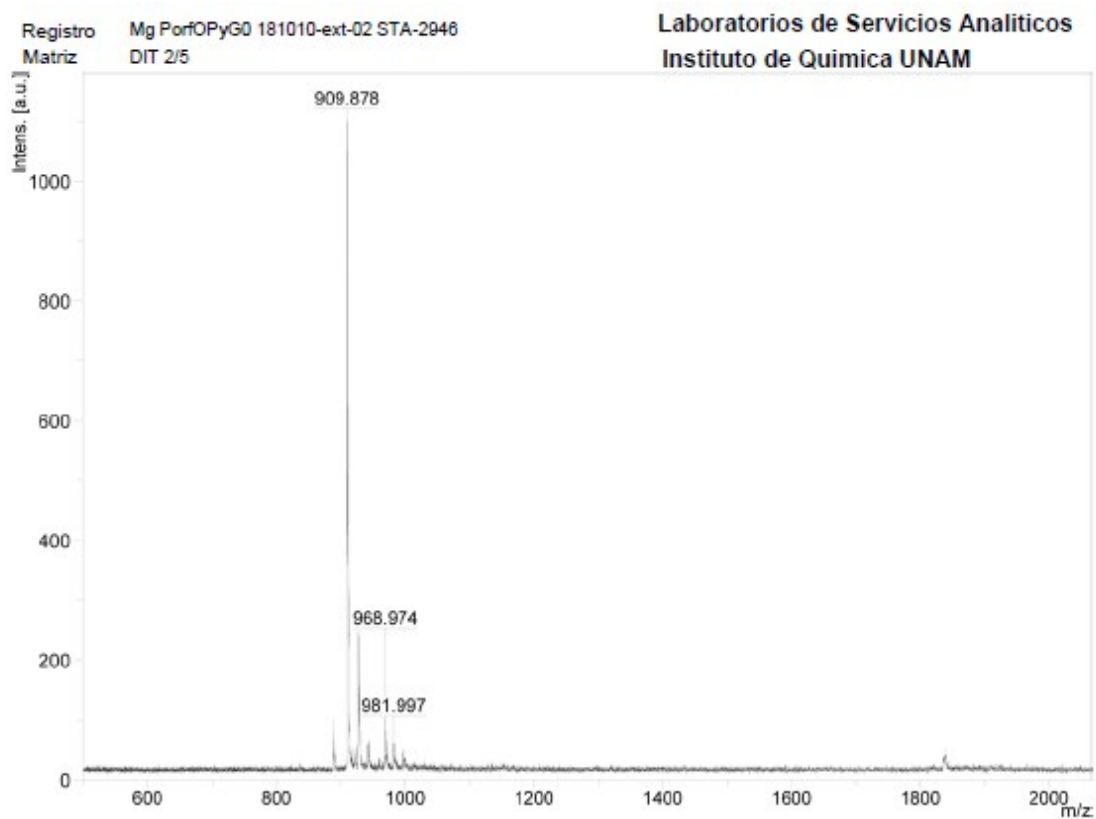
Date of acquisition	2018-10-12T15:44:01.890-05:00
Acquisition method name	D:\Methods\flexControl\Methods\LNM_UNAM\RP_PepMix.par
Acquisition operation mode	Reflector
Voltage polarity	POS
Number of shots	150
Name of spectrum used for calibration	
Calibration reference list used	

Instrument Info

User	UNAM
Instrument	FLEX-PC
Instrument type	microflex

D:\data\LSA\Cu PorfOPyG0\0_D4\2

MALDI-TOF Mass Spectra of compound **3c**

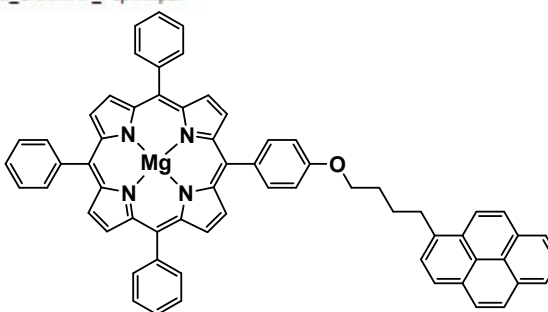


Acquisition Parameter

Date of acquisition 2018-10-12T15:00:14.359-05:00
Acquisition method name D:\Methods\flexControl\Methods\LNM_UNAM\RP_PepMix.par
Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 250
Name of spectrum used for calibration
Calibration reference list used

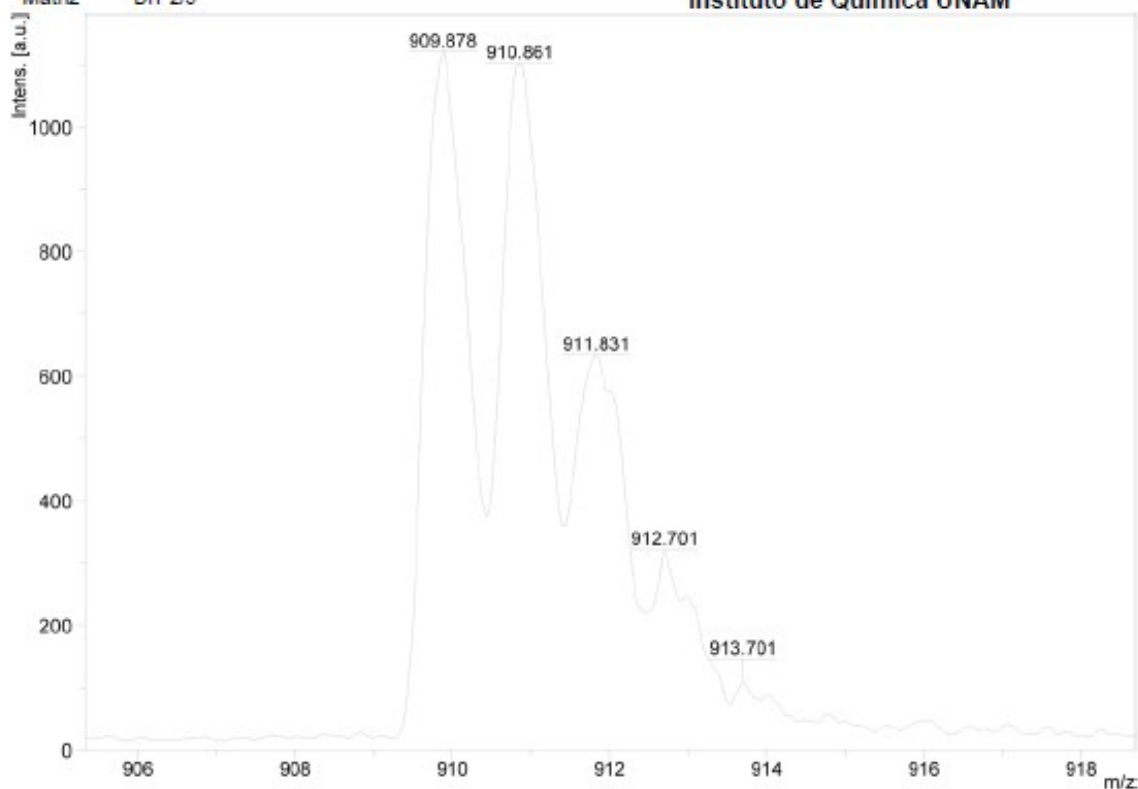
Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex
D:\data\LSA\Mg PorfOPyG0\0_B6\1



Registro Mg PorfOPyG0 181010-ext-02 STA-2946
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Acquisition Parameter

Date of acquisition 2018-10-12T15:00:14.359-05:00
Acquisition method name D:\Methods\flexControl\Methods\LNLM_UNAM\RP_PepMix.par

Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 250
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

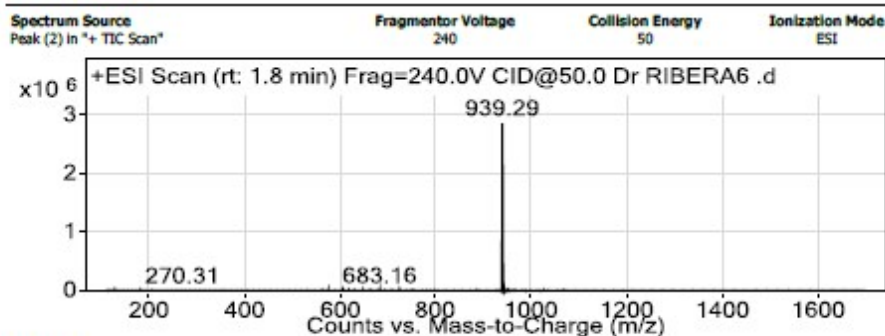
User UNAM
Instrument FLEX-PC
Instrument type microflex
D:\data\LSA\Mg PorfOPyG0\0_B6\1

ESI Mass Spectra of compound **3d**

Qualitative Analysis Report

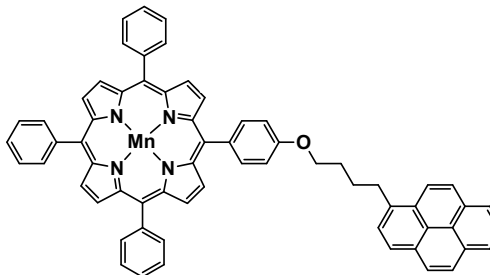
Data Filename	Dr RIBERA6 .d	Sample Name	Mn-Por(FO)Py
Sample Type	Sample	Position	P1-C6
Instrument Name	LC QTOF_LANCIC	User Name	
Acq Method	Iny dir.m	Acquired Time	3/22/2018 1:48:47 PM
IRM Calibration Status	Success	DA Method	carmen1.m
Comment			
Sample Group		Info.	
Stream Name	LC 1	Acquisition SW Version	6200 series TOF/6500 series Q-TOF 8.06.01 (B6172 SP1)

User Spectra

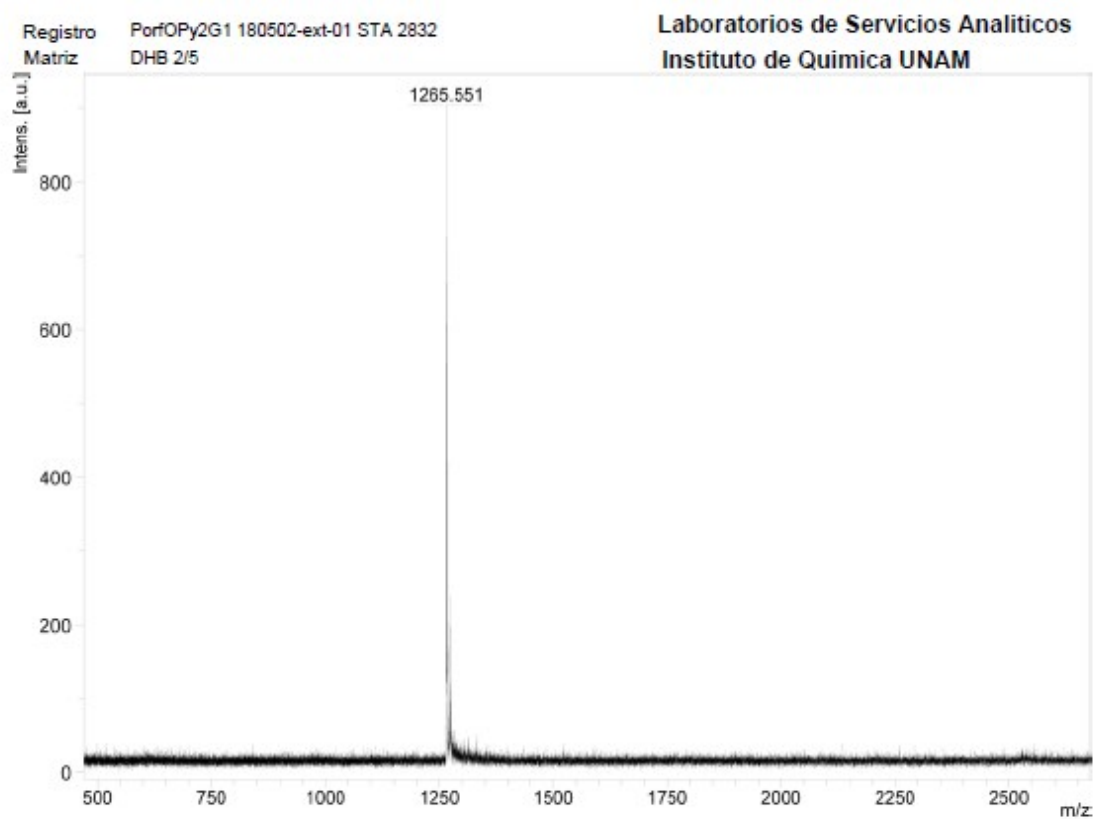


Peak List

m/z	z	Abund
116.14		7842.78
683.16	1	5072.82
939.29		2921010.66
940.29	1	2181967.89
941.29	1	862575.76
942.3	1	181956.7
943.3	1	31659.11
944.3	1	4520.87
945.25	1	10719.1
946.25	1	8263.92



--- End Of Report ---

MALDI-TOF Mass Spectra of compound **4**

Acquisition Parameter

Date of acquisition	2018-05-03T16:29:33.625-05:00
Acquisition method name	D:\Methods\flexControlMethods\LNM_UNAM\RP_PepMix.par

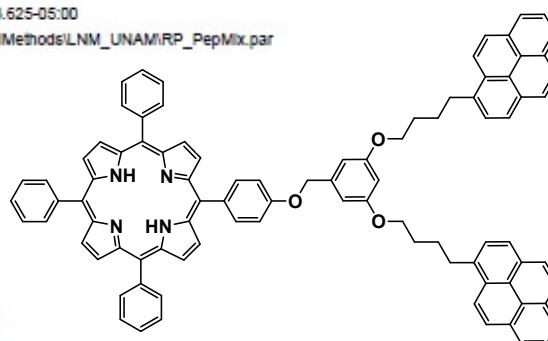
Aquisition operation mode	Reflector
Voltage polarity	POS
Number of shots	150
Name of spectrum used for calibration	
Calibration reference list used	

Instrument Info

```

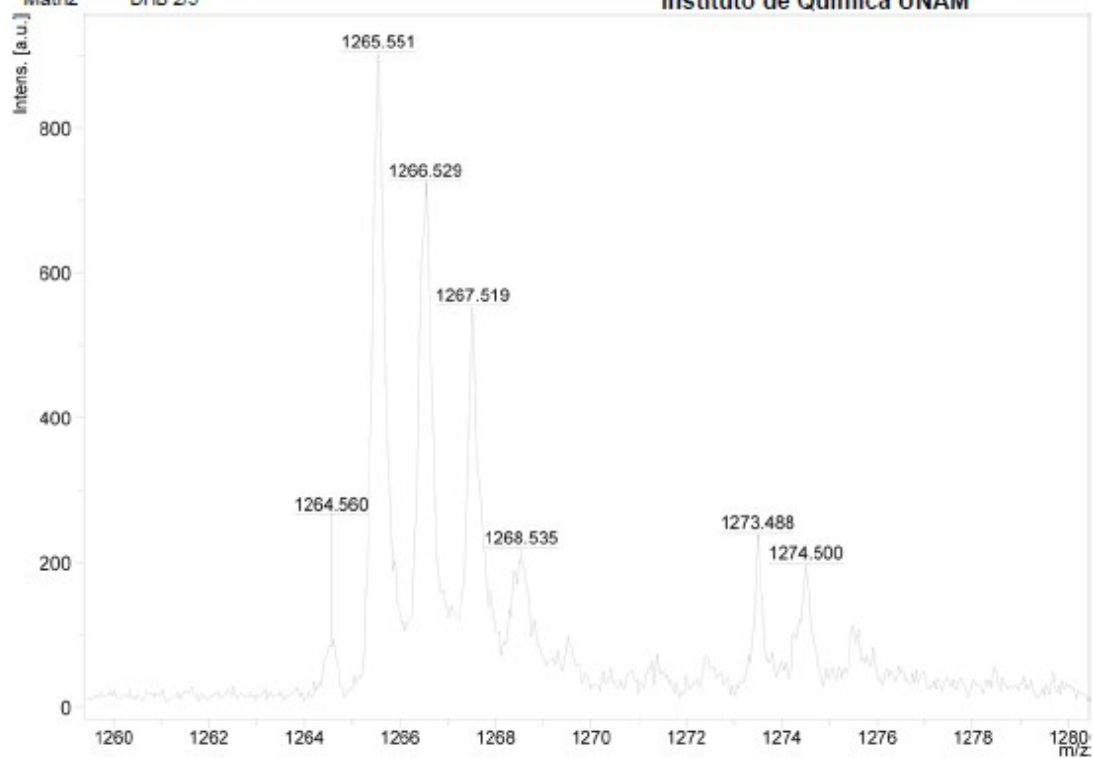
User                UNAM
Instrument           FLEX-PC
Instrument type      microflex
D:\data\LSA\PorfOPy2G1 180502-ext-01\0 B42

```



Registro PortOPy2G1 180502-ext-01 STA 2832
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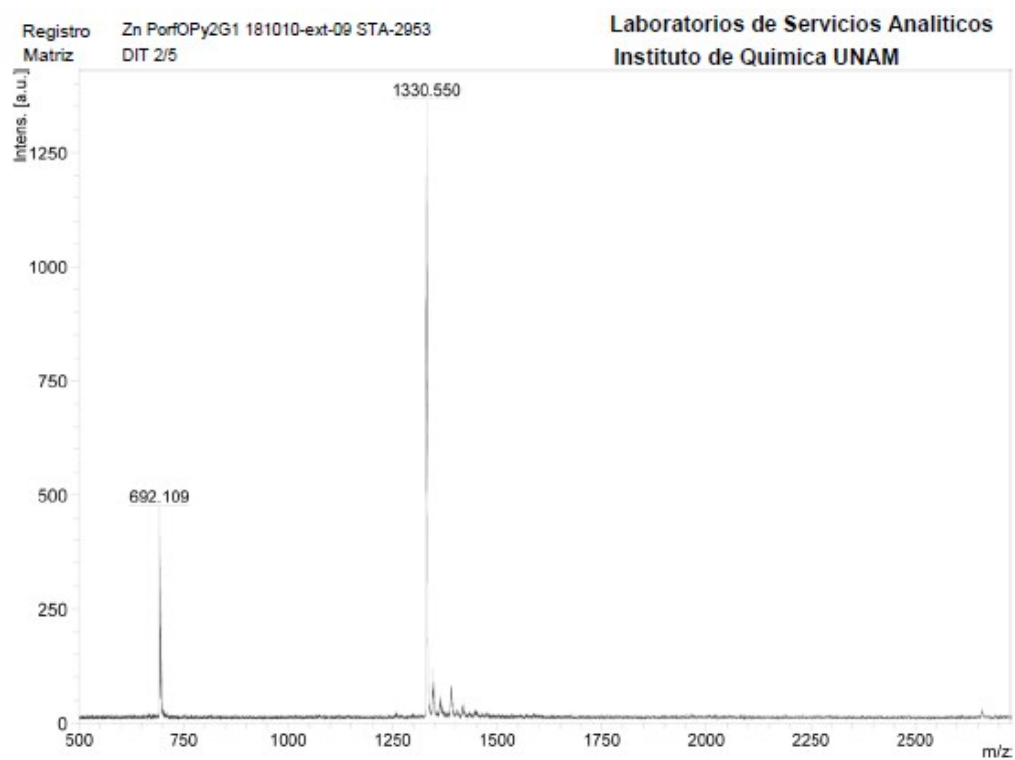


Acquisition Parameter

Date of acquisition 2018-05-03T16:29:33.625-05:00
Acquisition method name D:\Methods\flexControlMethods\LNM_UNAM\RP_PepMix.par
Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 150
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex
D:\data\LSA\PortOPy2G1 180502-ext-01\0_B4\2

MALDI-TOF Mass Spectra of compound **4a**

Acquisition Parameter

Date of acquisition	2018-10-12T16:30:05.875-05:00
Acquisition method name	D:\Methods\flexControlMethods\LNM_UNAM\RP_PepMix.par

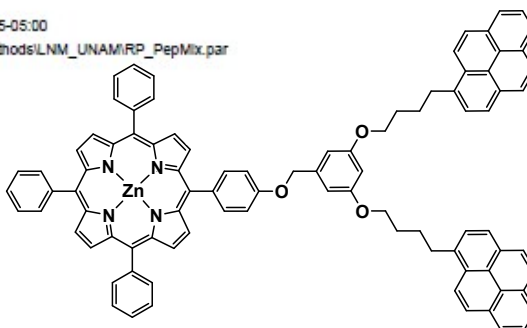
<i>Aquisition operation mode</i>	Reflector
<i>Voltage polarity</i>	POS
<i>Number of shots</i>	200
<i>Name of spectrum used for calibration</i>	
<i>Calibration reference list used</i>	

Instrument Info

```

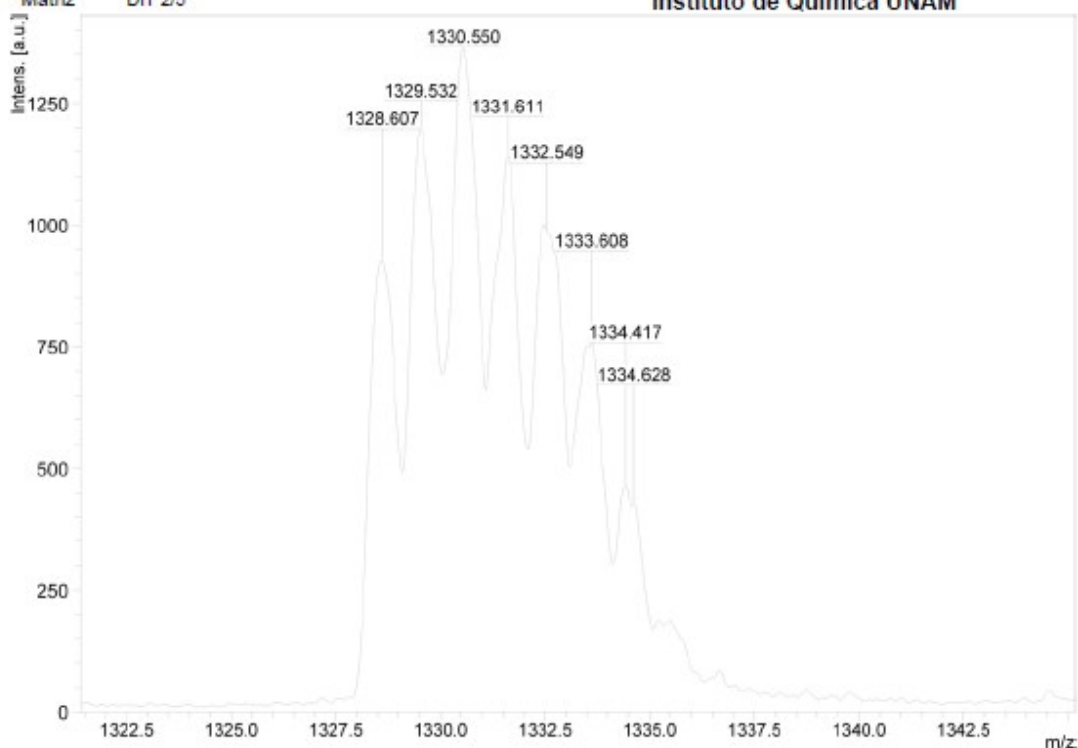
User          UNAM
Instrument     FLEX-PC
Instrument type microflex
D:\data\LSA\Zn PorfOPy2G10_F412

```



Registro Zn PorfOPy2G1 181010-ext-09 STA-2953
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Acquisition Parameter

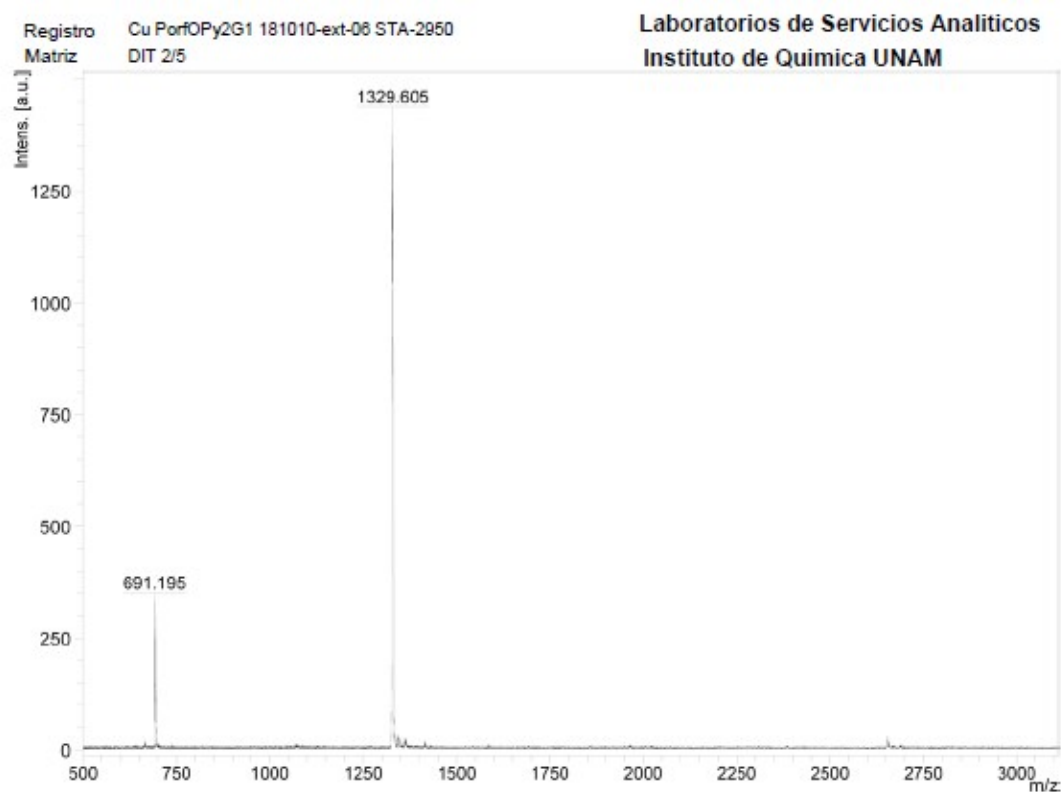
Date of acquisition 2016-10-12T16:30:05.875-05:00
Acquisition method name D:\Methods\flexControlMethods\LNM_UNAM\RP_PepMix.par
Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 200
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex

D:\data\LSA\Zn PorfOPy2G1\0_F4\2

MALDI-TOF Mass Spectra of compound **4b**

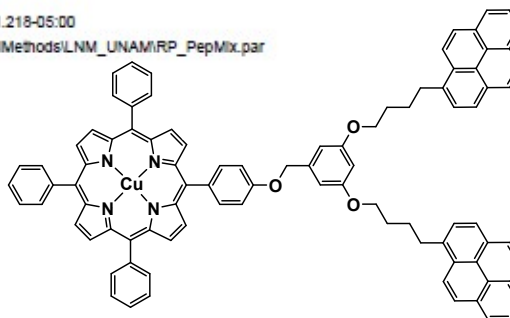


Acquisition Parameter

Date of acquisition 2018-10-12T15:54:21.218-05:00
Acquisition method name D:\Methods\flexControl\Methods\LNLM_UNAM\RP_PepMix.par
Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 79
Name of spectrum used for calibration
Calibration reference list used

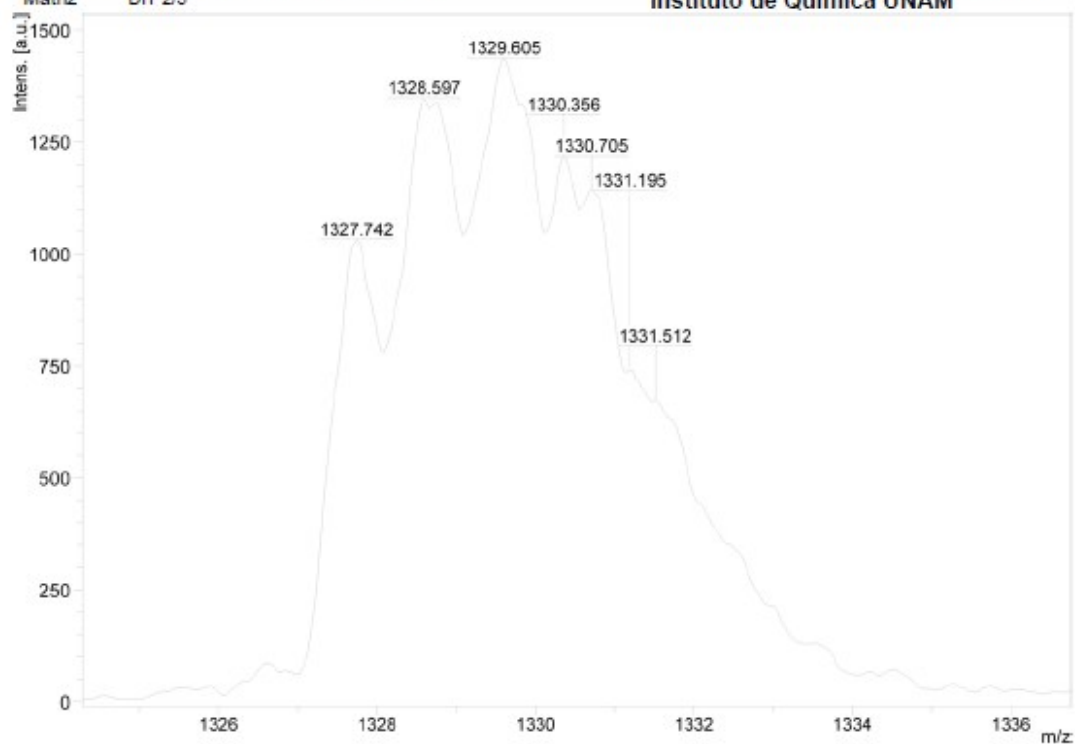
Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex
D:\data\LSA\Cu PorfOPy2G1\0_D6\1



Registro Cu PorfOPy2G1 181010-ext-06 STA-2950
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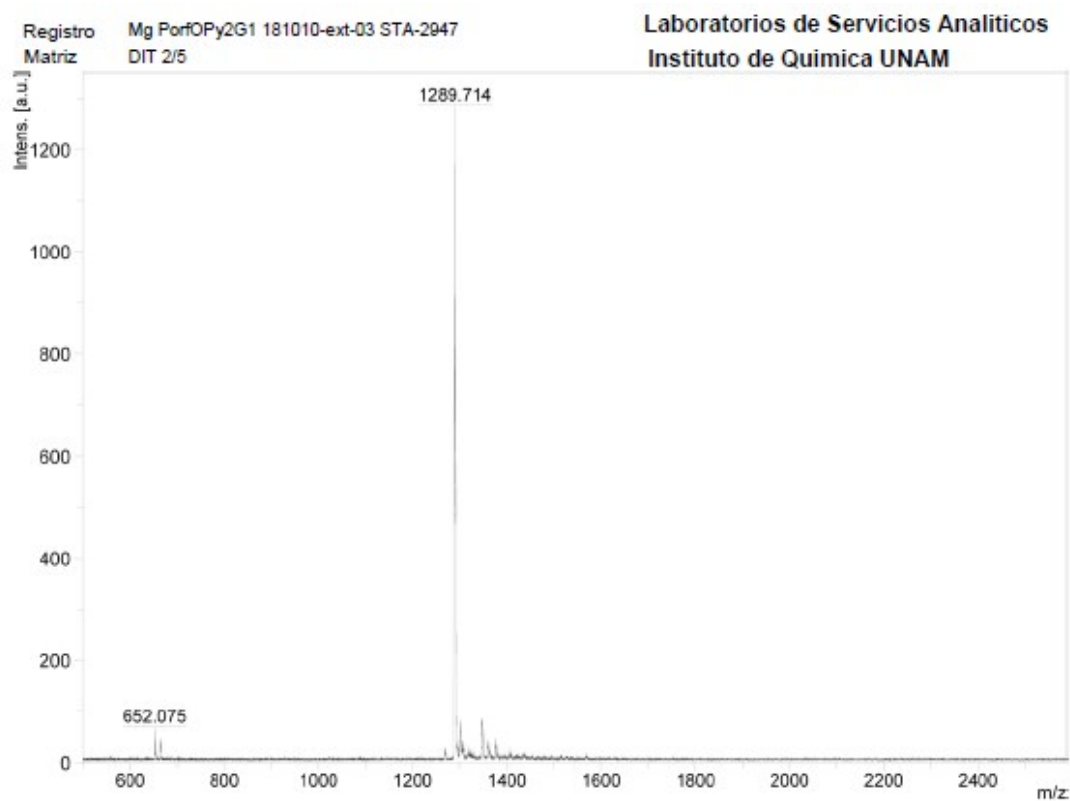
Acquisition Parameter

Date of acquisition 2018-10-12T15:54:21.218-05:00
Acquisition method name D:\Methods\flexControl\Methods\LNM_UNAM\RP_PepMix.par
Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 79
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex

D:\data\LSA\Cu PorfOPy2G1\0_D611

MALDI-TOF Mass Spectra of compound **4c**

Acquisition Parameter

Date of acquisition	2018-10-12T15:24:19.500-05:00
Acquisition method name	D:\Methods\flexControlMethods\LNM_UNAM\RP_PepMix.par

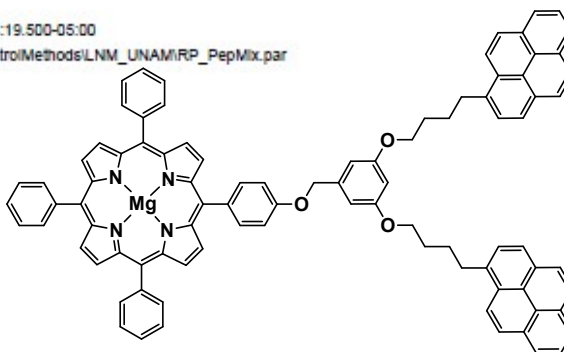
Aquisition operation mode	Reflector
Voltage polarity	POS
Number of shots	99
Name of spectrum used for calibration	
Calibration reference list used	

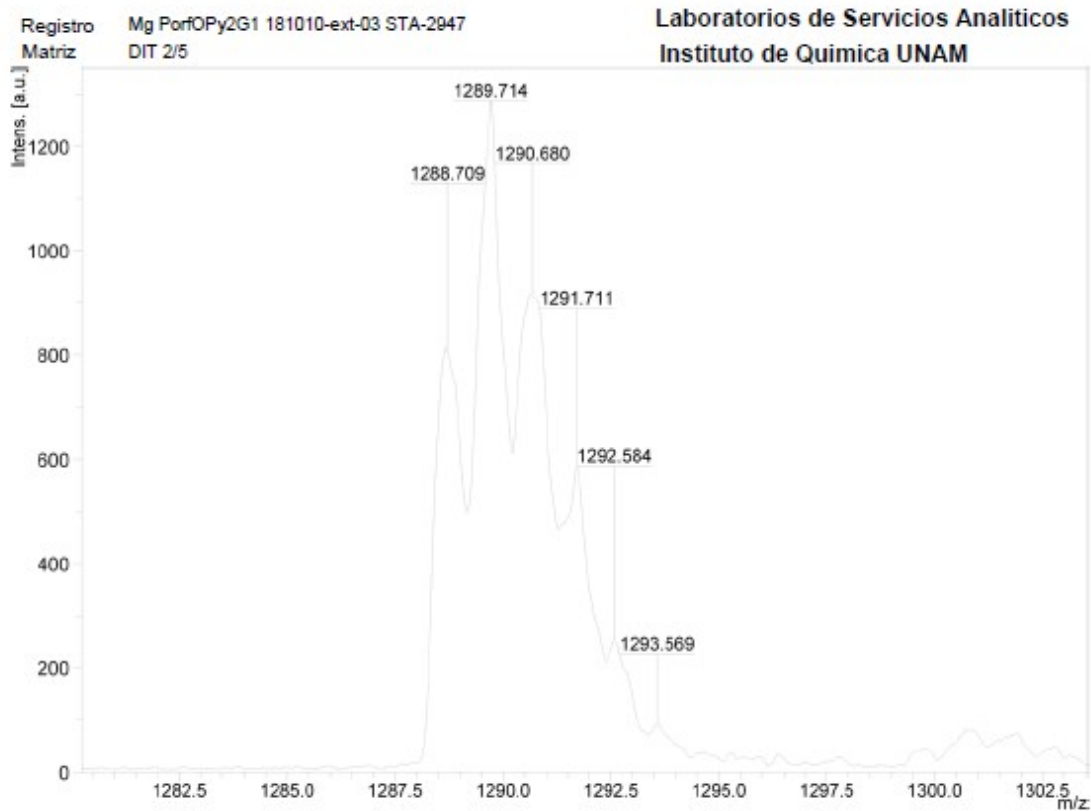
Instrument Info

```

User                UNAM
Instrument           FLEX-PC
Instrument type      microflex
D:\data\LSA\Mg PorfOPy2G110_B811

```





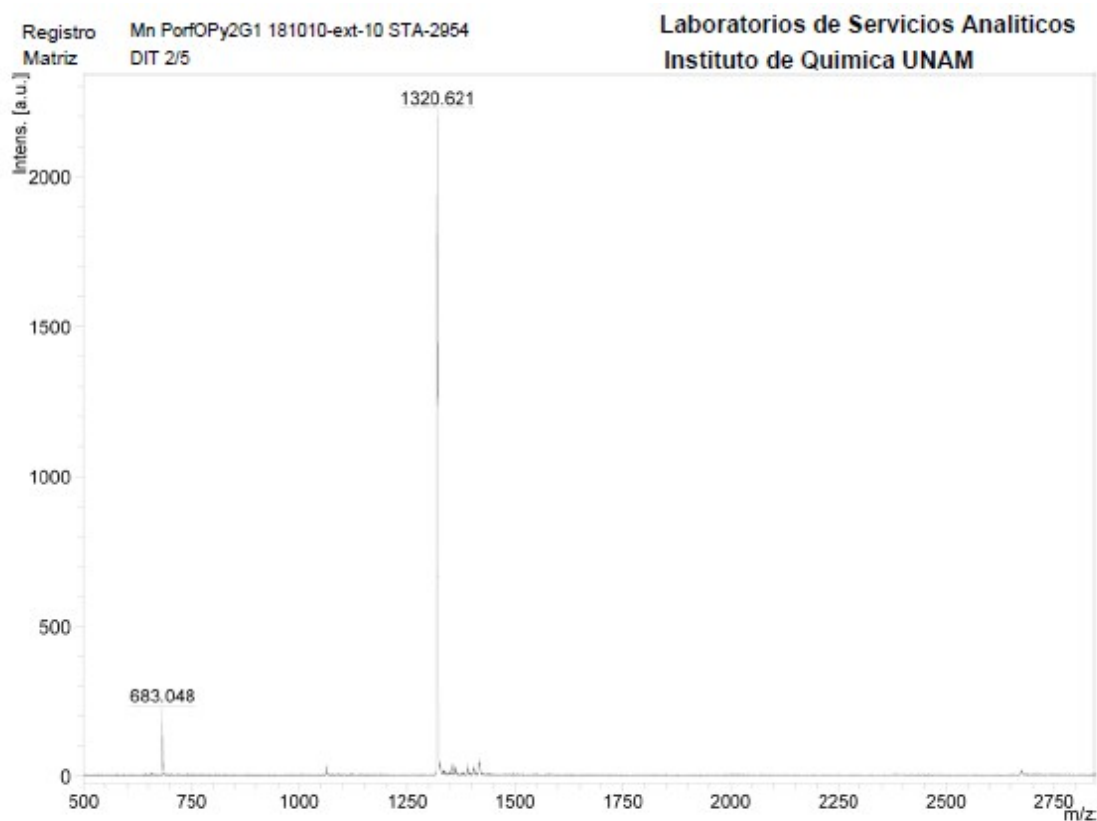
Acquisition Parameter

Date of acquisition 2018-10-12T15:24:19.500-05:00
 Acquisition method name D:\Methods\flexControl\Methods\LNAM_UNAM\RP_PepMix.par
 Acquisition operation mode Reflector
 Voltage polarity POS
 Number of shots 99
 Name of spectrum used for calibration
 Calibration reference list used

Instrument Info

User UNAM
 Instrument FLEX-PC
 Instrument type microflex
 D:\data\LSA\Mg PorfOPy2G1\0_B811

MALDI-TOF Mass Spectra of compound **4d**



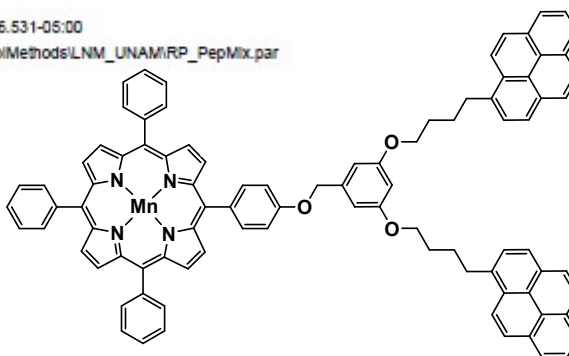
Acquisition Parameter

Date of acquisition 2018-10-12T16:35:36.531-05:00
Acquisition method name D:\Methods\flexControl\Methods\LNM_UNAM\RP_PepMix.par

Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 46
Name of spectrum used for calibration
Calibration reference list used

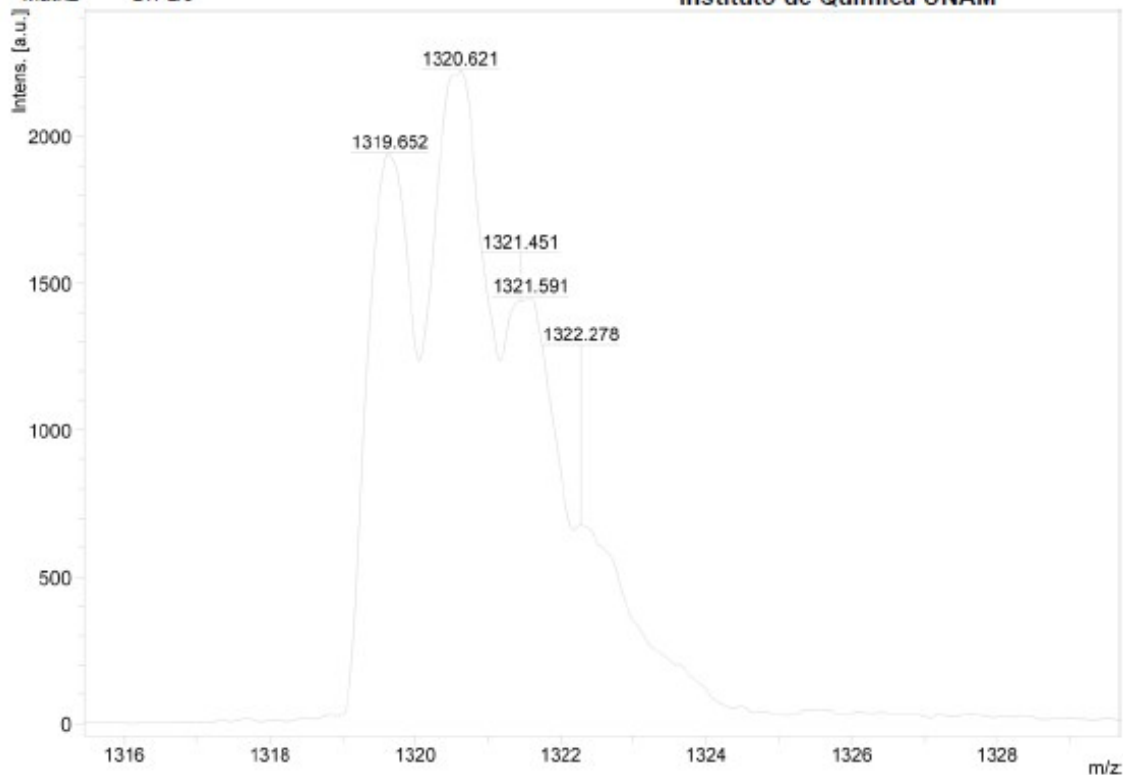
Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex
D:\data\LSA\Mn PorOPy2G10_F61



Registro Mn PorfOPy2G1 181010-ext-10 STA-2954
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Acquisition Parameter

Date of acquisition 2018-10-12T16:35:36.531-05:00
Acquisition method name D:\Methods\flexControlMethods\LNAM_UNAM\RP_PepMix.par
Acquisition operation mode Reflector
Voltage polarity POS
Number of shots 46
Name of spectrum used for calibration
Calibration reference list used

Instrument Info

User UNAM
Instrument FLEX-PC
Instrument type microflex

D:\data\LSA\Mn PorfOPy2G1\0_F6\1