

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM052423\
 Data File : BM039994.D
 Acq On : 24 May 2023 21:15
 Operator : CG/JU
 Sample : 02888-01
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 S-H4(BHF)

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 05/25/2023
 Supervised By :Jagrut Upadhyay 05/25/2023

Quant Time: May 25 04:30:50 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM052323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 24 01:06:13 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.016	152	408982	20.000	ng	0.00
21) Naphthalene-d8	10.839	136	1569180	20.000	ng	0.00
39) Acenaphthene-d10	14.651	164	789163	20.000	ng	0.00
64) Phenanthrene-d10	17.398	188	1472413	20.000	ng	0.00
76) Chrysene-d12	21.568	240	1306668	20.000	ng	0.00
86) Perylene-d12	24.021	264	1521759	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.575	112	1989436	74.616	ng	0.01
7) Phenol-d6	7.175	99	2244665	64.538	ng	0.00
23) Nitrobenzene-d5	9.187	82	1264911	43.497	ng	0.00
42) 2,4,6-Tribromophenol	16.139	330	760568	74.254	ng	0.00
45) 2-Fluorobiphenyl	13.280	172	2897944	43.313	ng	0.00
79) Terphenyl-d14	20.009	244	3759453	44.673	ng	0.00
Target Compounds						
31) Naphthalene	10.881	128	27094714m	312.945	ng	Qvalue
37) 2-Methylnaphthalene	12.492	142	5458478	94.585	ng	98
38) 1-Methylnaphthalene	12.710	142	2961883	54.828	ng	97
46) 1,1'-Biphenyl	13.492	154	355124	5.256	ng	99
71) Phenanthrene	17.439	178	275949	3.133	ng	99
75) Fluoranthene	19.445	202	249463	2.842	ng	91
78) Pyrene	19.809	202	216630	2.259	ng	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

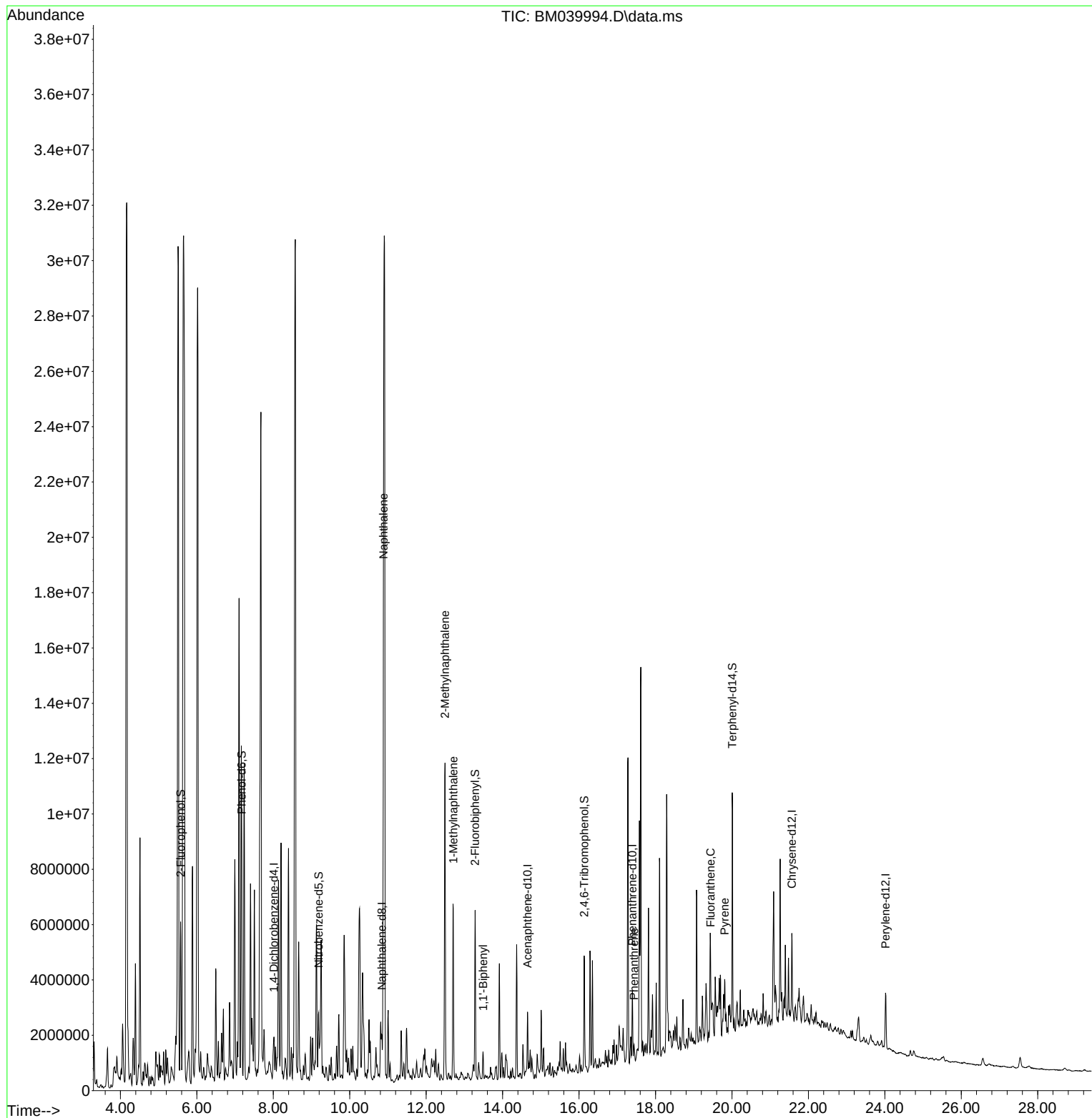
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM052423\
Data File : BM039994.D
Acq On : 24 May 2023 21:15
Operator : CG/JU
Sample : 02888-01
Misc :
ALS Vial : 20 Sample Multiplier: 1

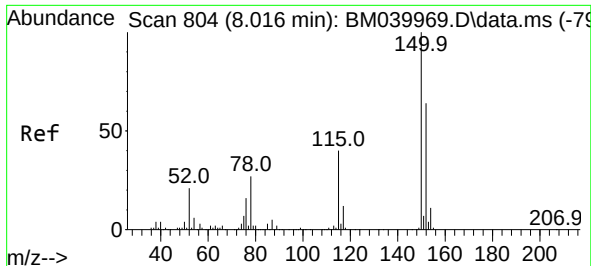
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

Quant Time: May 25 04:30:50 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM052323.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 24 01:06:13 2023
Response via : Initial Calibration

Manual Integrations
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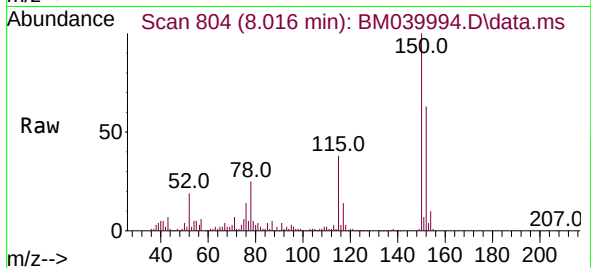
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.016 min Scan# 804
Delta R.T. 0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

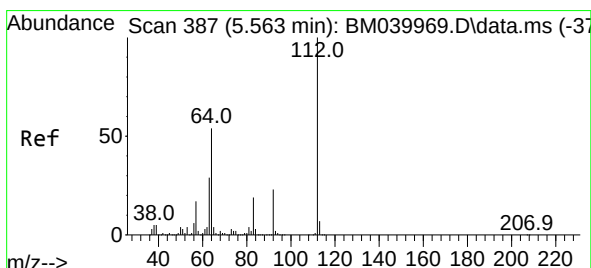
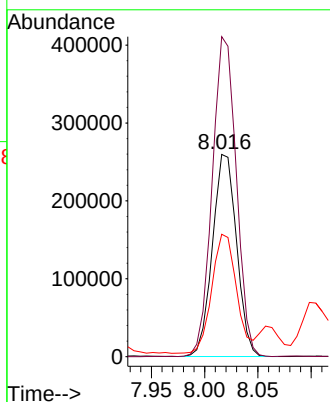
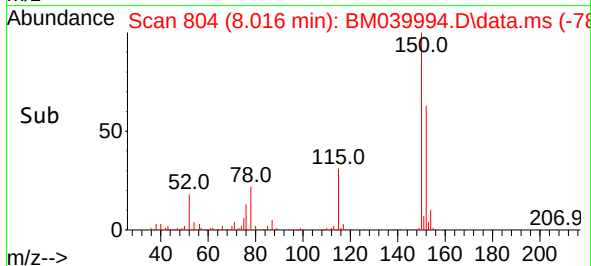
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)



Tgt Ion:152 Resp: 408982
Ion Ratio Lower Upper
152 100
150 158.2 125.5 188.3
115 60.5 50.2 75.2

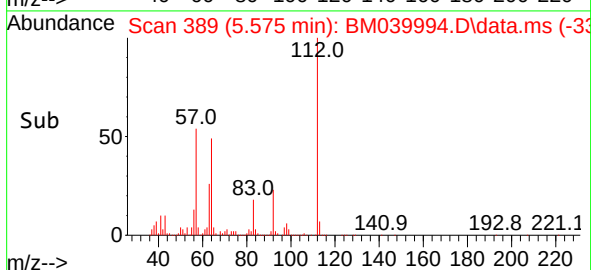
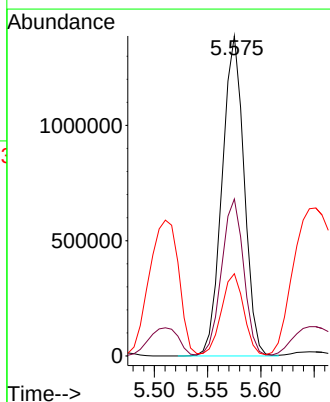
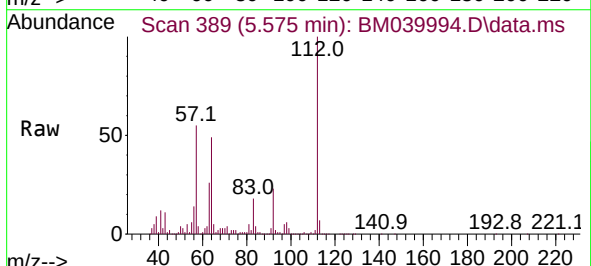
Manual Integrations
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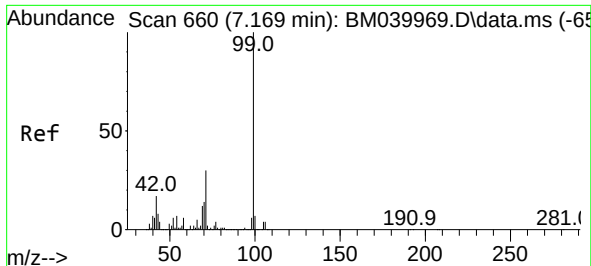
Reviewed By :Christian Giraldo 05/25/2023
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#5
2-Fluorophenol
Concen: 74.616 ng
RT: 5.575 min Scan# 389
Delta R.T. 0.012 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

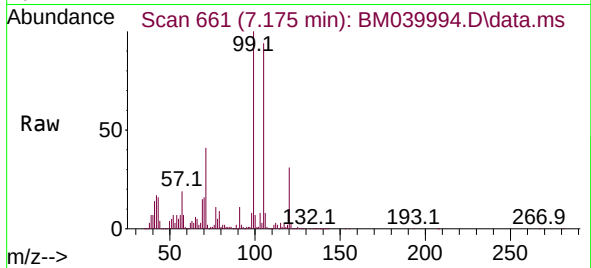
Tgt Ion:112 Resp: 1989436
Ion Ratio Lower Upper
112 100
64 49.0 43.0 64.4
63 25.7 22.9 34.3





#7
Phenol-d6
Concen: 64.538 ng
RT: 7.175 min Scan# 661
Delta R.T. 0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

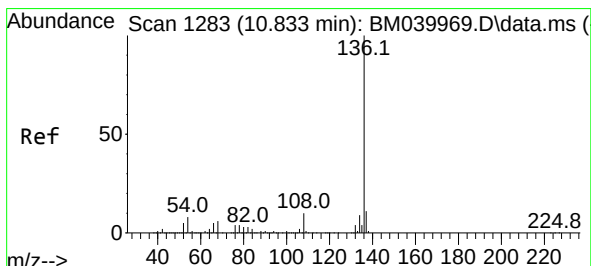
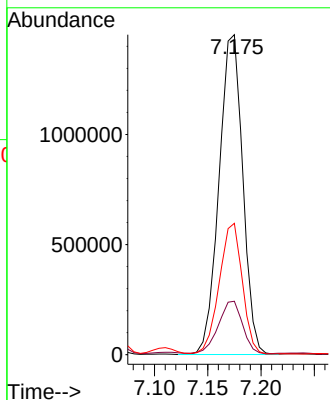
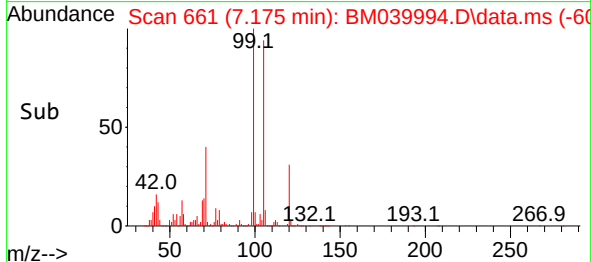
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)



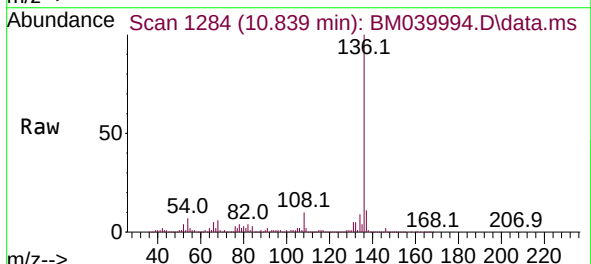
Tgt Ion: 99 Resp: 224466
Ion Ratio Lower Upper
99 100
42 16.7 13.8 20.6
71 41.0 24.4 36.6

Manual Integrations
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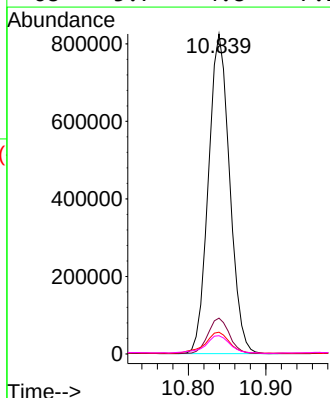
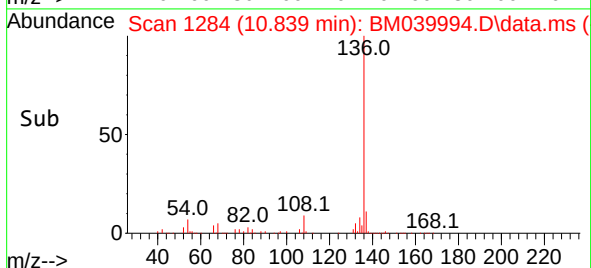
Reviewed By :Christian Giraldo 05/25/2023
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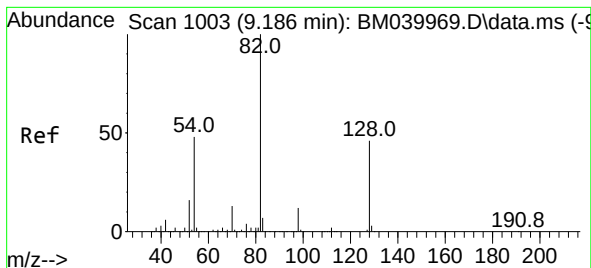


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.839 min Scan# 1284
Delta R.T. 0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15



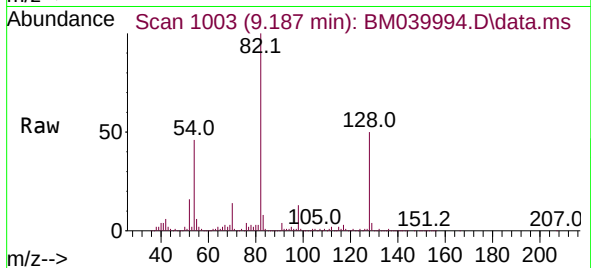
Tgt Ion:136 Resp: 1569180
Ion Ratio Lower Upper
136 100
137 11.2 8.7 13.1
54 6.8 6.1 9.1
68 5.7 4.8 7.2





#23
Nitrobenzene-d5
Concen: 43.497 ng
RT: 9.187 min Scan# 1003
Delta R.T. 0.001 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

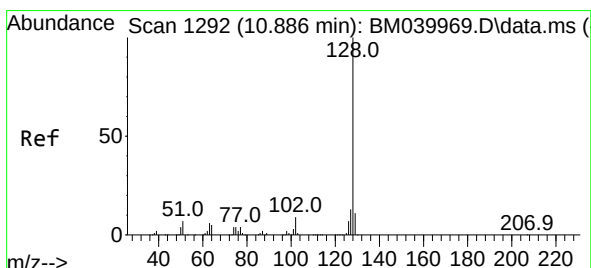
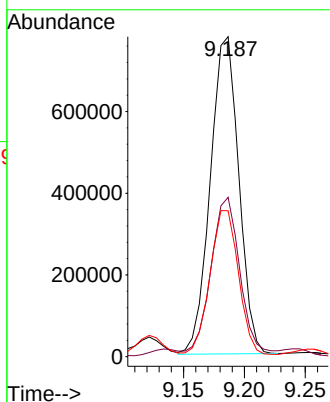
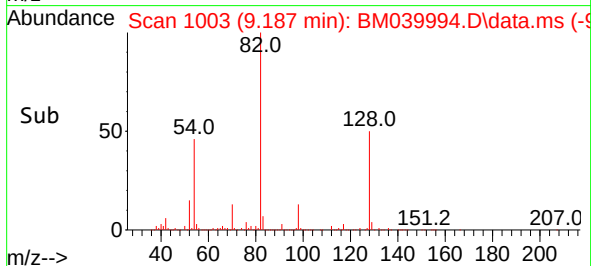
Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)



Tgt Ion: 82 Resp: 126491
Ion Ratio Lower Upper
82 100
128 49.8 36.5 54.7
54 45.6 38.3 57.5

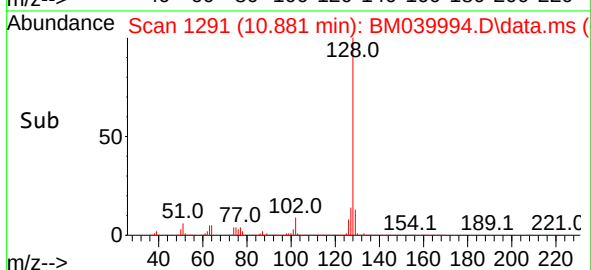
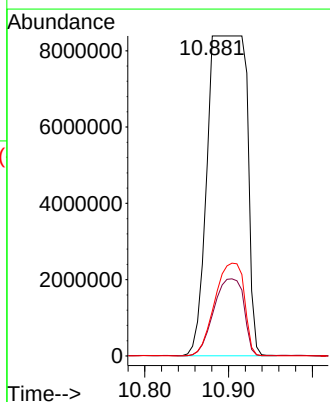
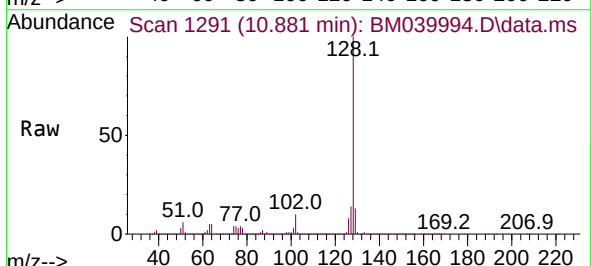
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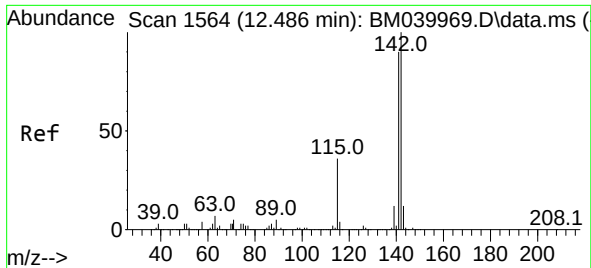
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023



#31
Naphthalene
Concen: 312.945 ng m
RT: 10.881 min Scan# 1291
Delta R.T. -0.005 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion:128 Resp:27094714
Ion Ratio Lower Upper
128 100
129 12.8 8.7 13.1
127 14.0 10.4 15.6





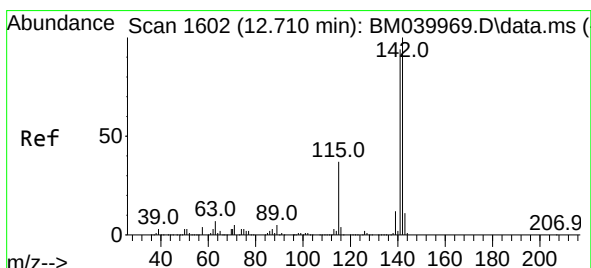
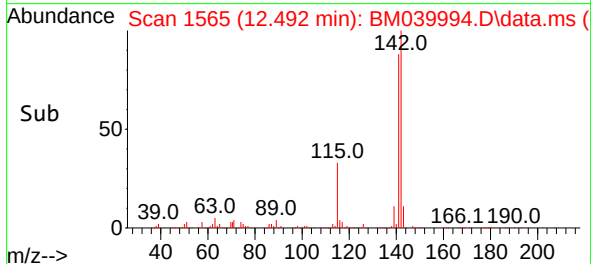
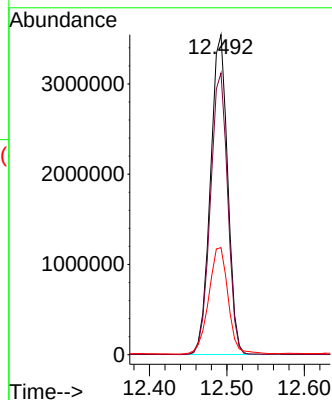
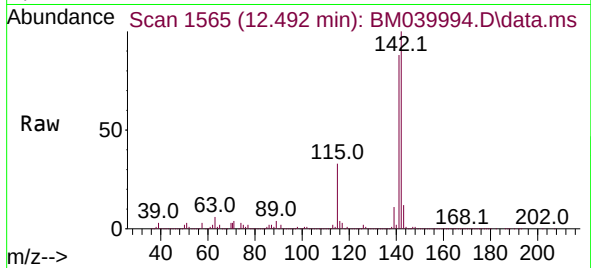
#37
2-Methylnaphthalene
Concen: 94.585 ng
RT: 12.492 min Scan# 1564
Delta R.T. 0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Instrument :
BNA_M
ClientSampleId :
S-H4(BHF)

Tgt Ion:142 Resp: 5458478
Ion Ratio Lower Upper
142 100
141 88.1 71.6 107.4
115 33.5 28.8 43.2

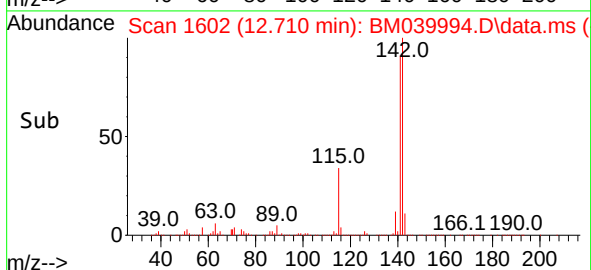
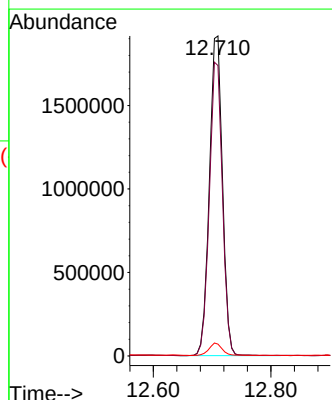
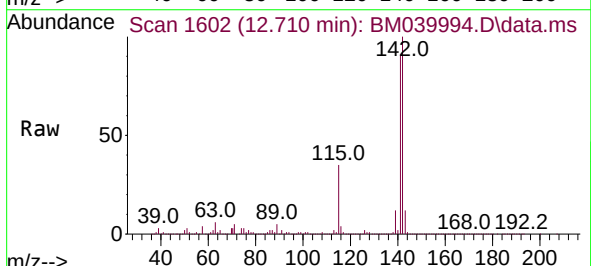
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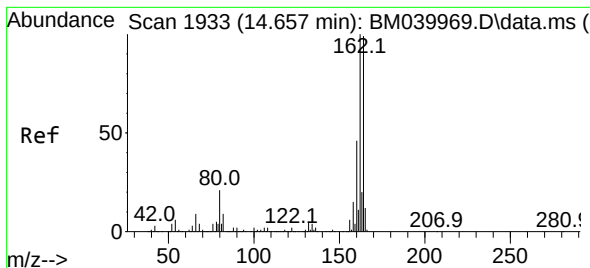
Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023



#38
1-Methylnaphthalene
Concen: 54.828 ng
RT: 12.710 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Tgt Ion:142 Resp: 2961883
Ion Ratio Lower Upper
142 100
141 90.7 75.1 112.7
116 3.7 3.2 4.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 14.651 min Scan# 1933

Delta R.T. -0.006 min

Lab File: BM039994.D

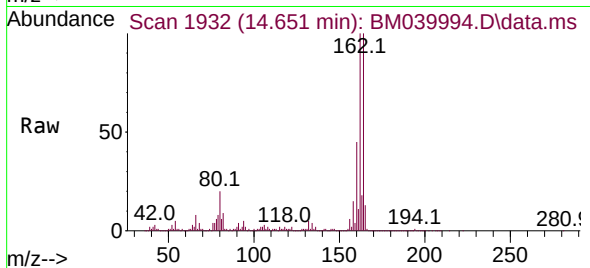
Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)



Tgt Ion:164 Resp: 78916

Ion Ratio Lower Upper

164 100

162 100.2 80.6 120.8

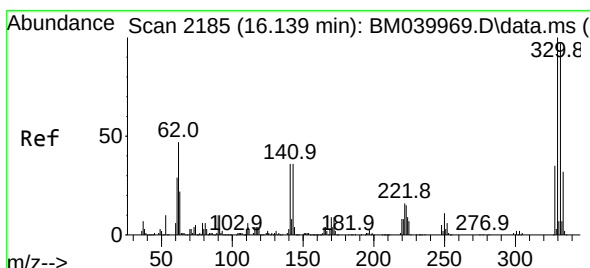
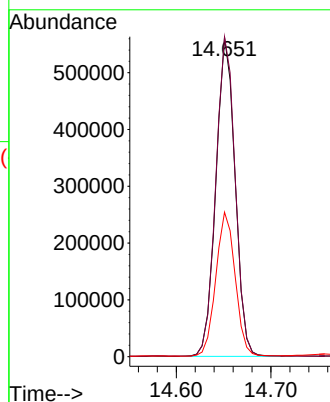
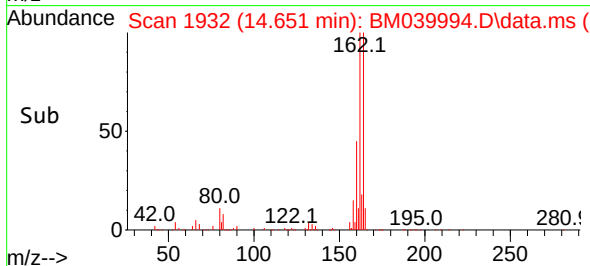
160 45.2 36.7 55.1

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 74.254 ng

RT: 16.139 min Scan# 2185

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

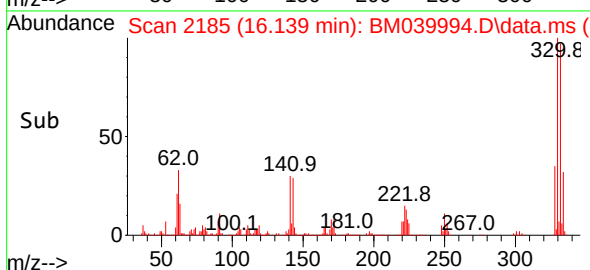
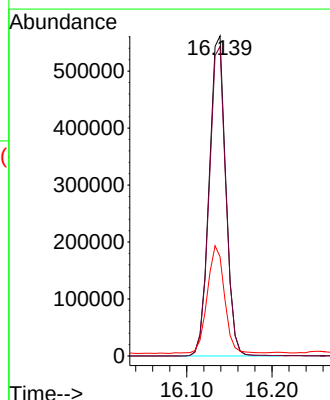
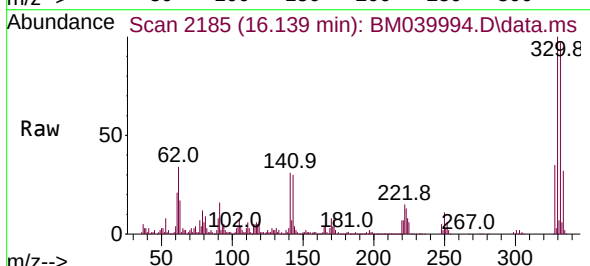
Tgt Ion:330 Resp: 760568

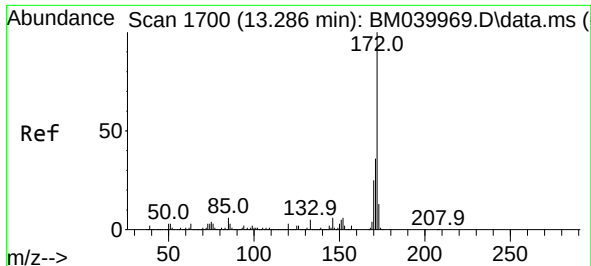
Ion Ratio Lower Upper

330 100

332 96.9 77.4 116.2

141 34.9 31.6 47.4





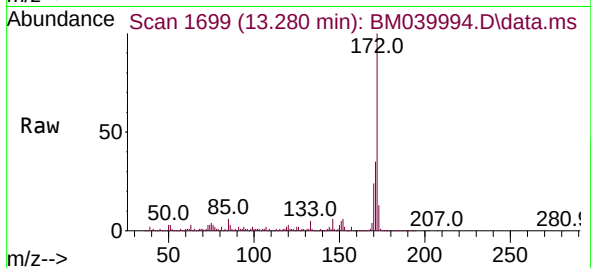
#45
2-Fluorobiphenyl
Concen: 43.313 ng
RT: 13.280 min Scan# 1699
Delta R.T. -0.006 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

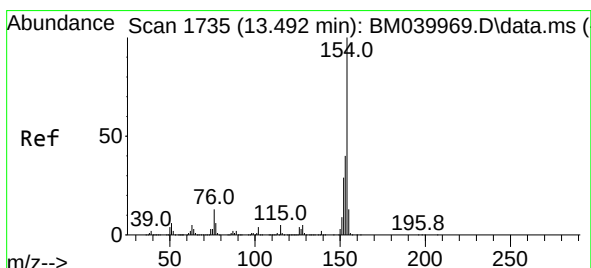
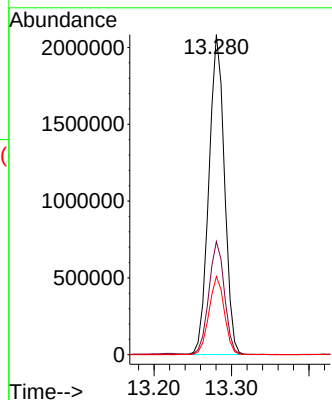
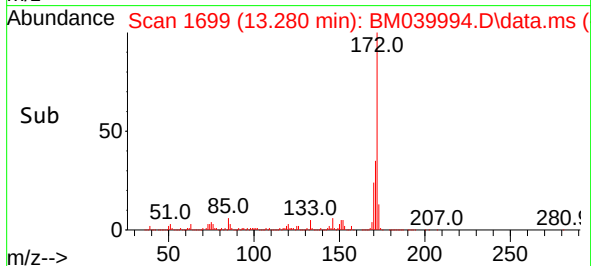


Tgt Ion:172 Resp: 2897944
Ion Ratio Lower Upper
172 100
171 35.4 28.8 43.2
170 24.5 19.6 29.4

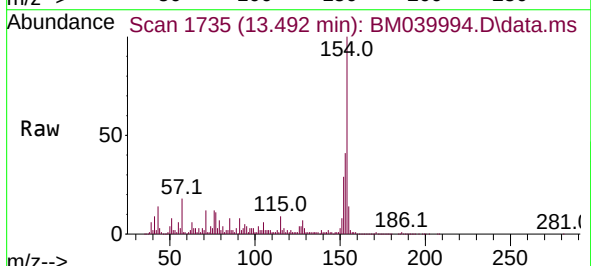
Manual Integrations

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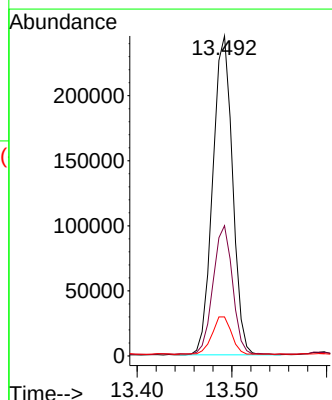
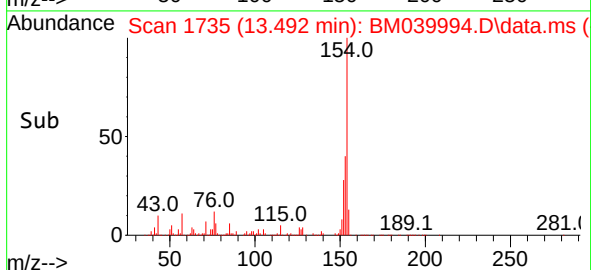
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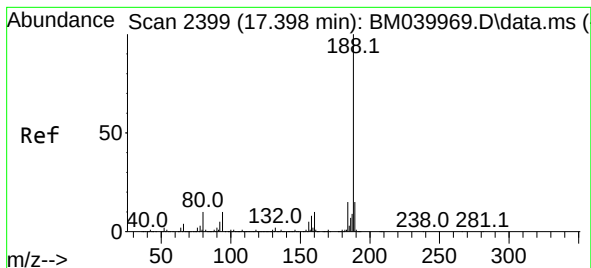


#46
1,1'-Biphenyl
Concen: 5.256 ng
RT: 13.492 min Scan# 1735
Delta R.T. 0.000 min
Lab File: BM039994.D
Acq: 24 May 2023 21:15



Tgt Ion:154 Resp: 355124
Ion Ratio Lower Upper
154 100
153 40.7 20.4 60.4
76 12.2 0.0 33.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.398 min Scan# 21

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

Tgt Ion:188 Resp: 147241

Ion Ratio Lower Upper

188 100

94 10.8 7.8 11.8

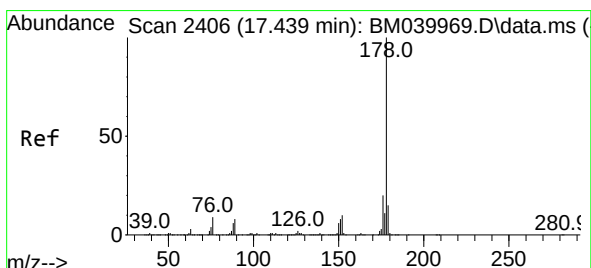
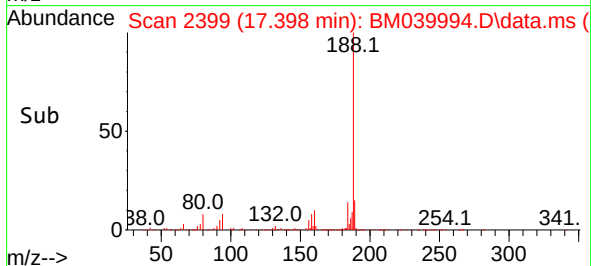
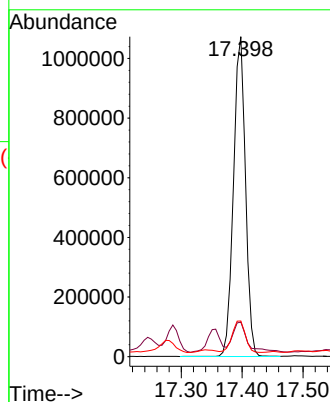
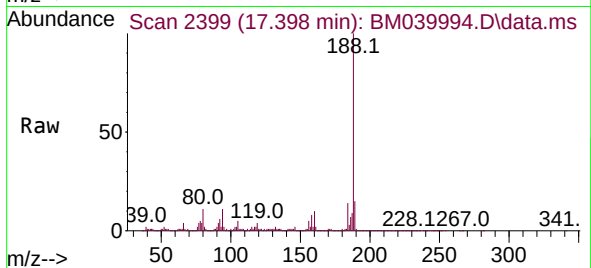
80 11.1 8.2 12.4

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/25/2023



#71

Phenanthrene

Concen: 3.133 ng

RT: 17.439 min Scan# 2406

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

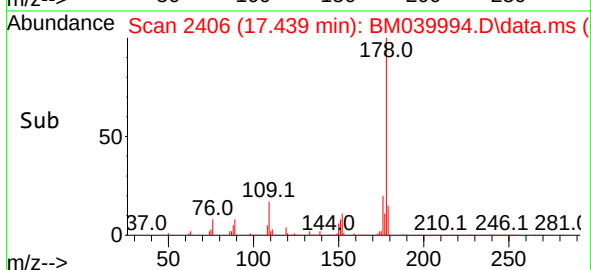
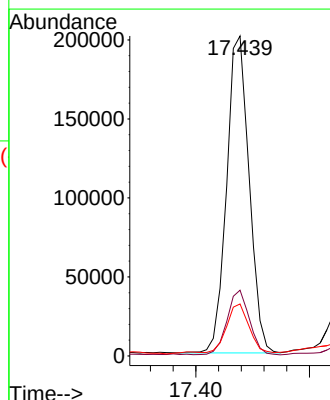
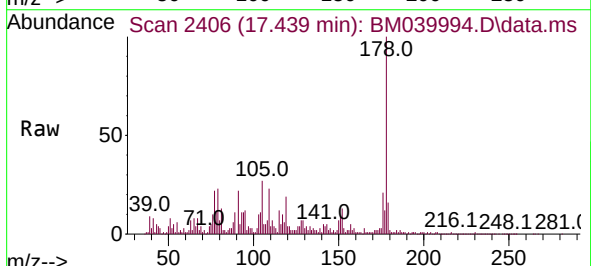
Tgt Ion:178 Resp: 275949

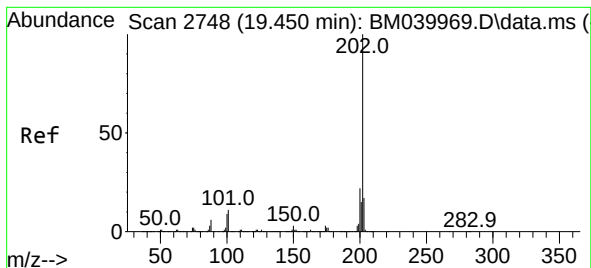
Ion Ratio Lower Upper

178 100

176 20.5 16.2 24.2

179 16.3 12.2 18.4





#75

Fluoranthene

Concen: 2.842 ng

RT: 19.445 min Scan# 21

Delta R.T. -0.005 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

S-H4(BHF)

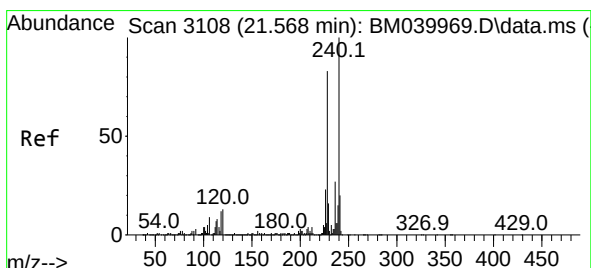
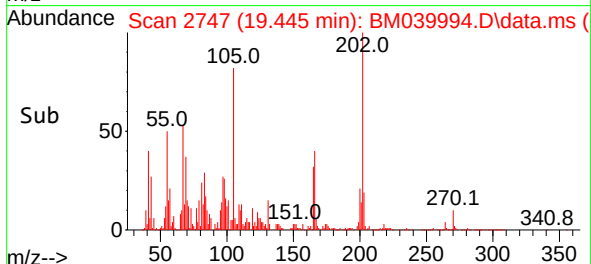
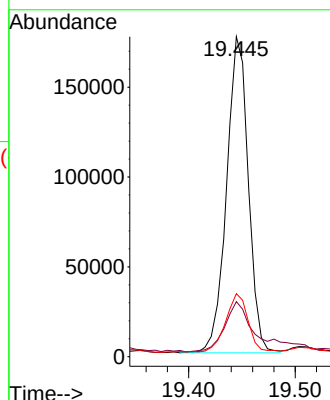
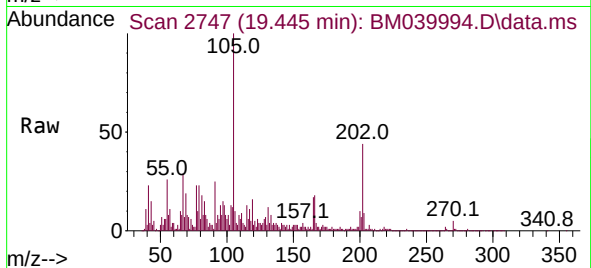
Tgt Ion:202 Resp: 24946

Ion	Ratio	Lower	Upper
202	100		
101	17.2	0.0	31.3
203	19.7	0.0	37.5

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.568 min Scan# 3108

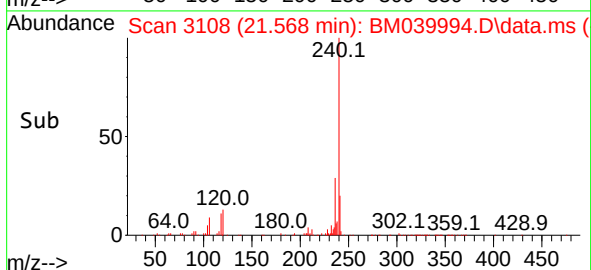
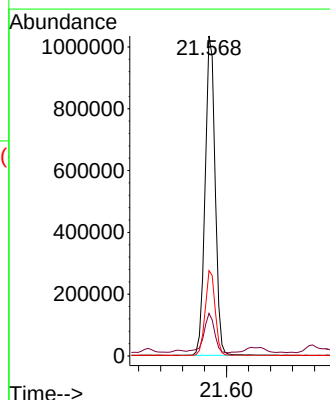
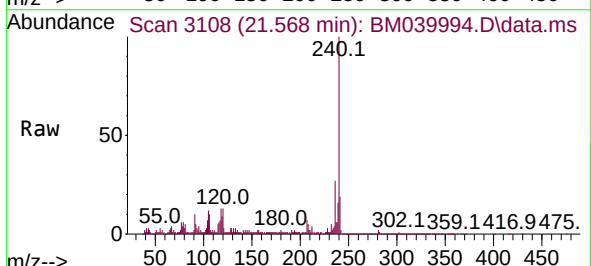
Delta R.T. 0.000 min

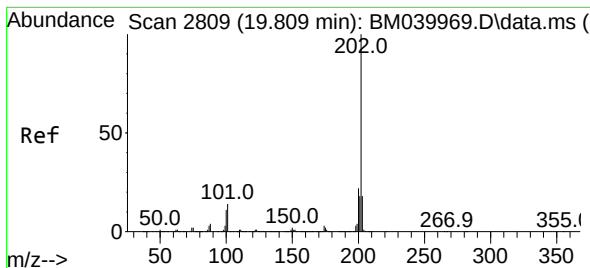
Lab File: BM039994.D

Acq: 24 May 2023 21:15

Tgt Ion:240 Resp: 1306668

Ion	Ratio	Lower	Upper
240	100		
120	13.3	10.1	15.1
236	26.7	21.3	31.9





#78

Pyrene

Concen: 2.259 ng

RT: 19.809 min Scan# 216630

Delta R.T. 0.000 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

Instrument :

BNA_M

ClientSampleId :

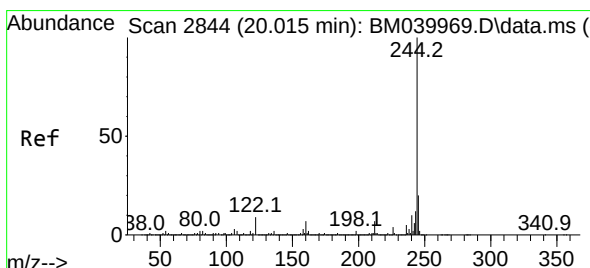
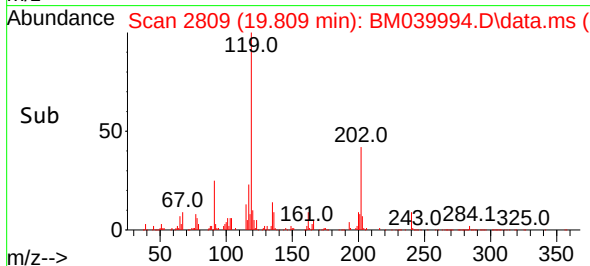
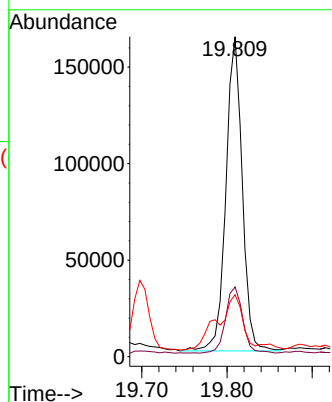
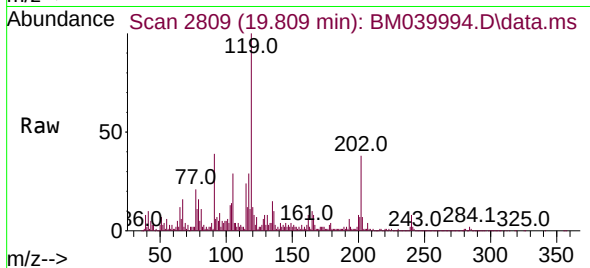
S-H4(BHF)

Tgt Ion:	202	Resp:	216630
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.6	26.4
203	19.3	14.1	21.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 05/25/2023
Supervised By :Jagrut Upadhyay 05/25/2023



#79

Terphenyl-d14

Concen: 44.673 ng

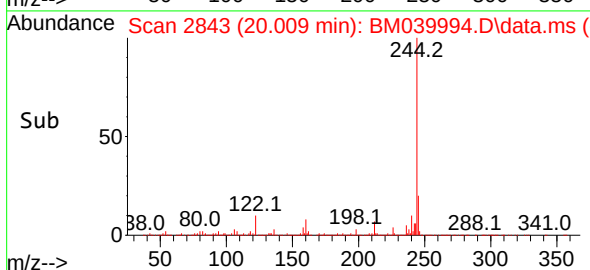
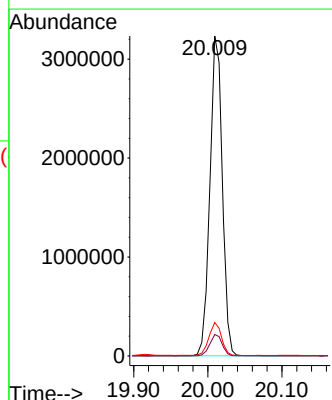
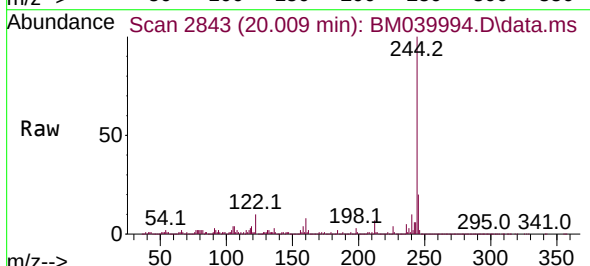
RT: 20.009 min Scan# 2843

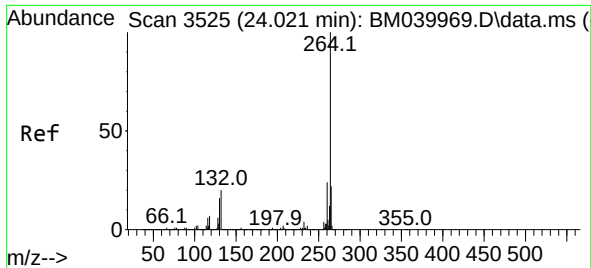
Delta R.T. -0.006 min

Lab File: BM039994.D

Acq: 24 May 2023 21:15

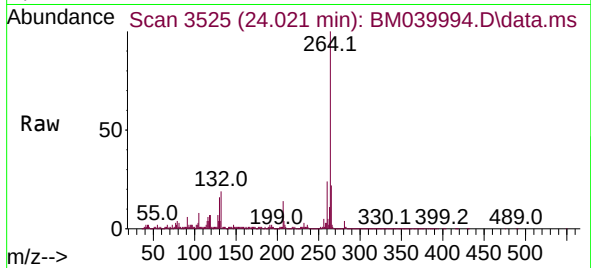
Tgt Ion:	244	Resp:	3759453
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	10.4	7.1	10.7





#86
 Perylene-d12
 Concen: 20.000 ng
 RT: 24.021 min Scan# 3
 Delta R.T. 0.000 min
 Lab File: BM039994.D
 Acq: 24 May 2023 21:15

Instrument :
 BNA_M
 ClientSampleId :
 S-H4(BHF)



Tgt Ion:264 Resp: 1521759

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.5	29.3
265	22.4	17.7	26.5

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 05/25/2023
 Supervised By :Jagrut Upadhyay 05/25/2023

