

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041823\
 Data File : BM039498.D
 Acq On : 19 Apr 2023 16:52
 Operator : CG/JU
 Sample : 02296-15
 Misc :
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 DCBM0

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/20/2023
 Supervised By : Jagrut Upadhyay 04/20/2023

Quant Time: Apr 20 00:08:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\SFAM-EPA-BM041823.MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Apr 19 08:18:41 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.843	152	250306	20.000	ng/ul	# 0.01
20) Naphthalene-d8	10.701	136	102923	20.000	ng/ul	# 0.06
38) Acenaphthene-d10	14.572	164	637487m	20.000	ng/ul	0.09
64) Phenanthrene-d10	17.307	188	382953m	20.000	ng/ul	0.07
79) Chrysene-d12	21.471	240	528347m	20.000	ng/ul	0.04
88) Perylene-d12	23.824	264	775516	20.000	ng/ul	0.03
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.213	96	26642	4.086	ng/uL	0.00
4) Pyridine-d5	3.708	84	50579m	2.760	ng/ul	0.07
7) Phenol-d5	7.043	99	92481m	4.037	ng/ul	0.03
9) Bis-(2-Chloroethyl)eth...	7.184	67	318624	21.042	ng/ul	0.02
11) 2-Chlorophenol-d4	7.378	132	338983	18.863	ng/ul	0.01
15) 4-Methylphenol-d8	8.660	113	210179m	11.389	ng/ul	0.10
21) Nitrobenzene-d5	9.042	128	379146	457.886	ng/ul	0.04
24) 2-Nitrophenol-d4	9.813	143	273012m	293.626	ng/ul	0.09
28) 2,4-Dichlorophenol-d3	10.542	165	413742m	258.610	ng/ul	0.27
31) 4-Chloroaniline-d4	10.795	131	83974m	35.143	ng/ul	0.00
46) Dimethylphthalate-d6	14.048	166	1108779	21.566	ng/ul	0.14
49) Acenaphthylene-d8	14.242	160	1387170	24.017	ng/ul	0.06
54) 4-Nitrophenol-d4	14.813	143	117675	15.124	ng/ul	0.09
60) Fluorene-d10	15.542	176	756883	17.969	ng/ul	0.06
65) 4,6-Dinitro-2-methylph...	15.671	200	41	0.016	ng/ul	0.06
73) Anthracene-d10	17.413	188	43658m	2.371	ng/ul	0.07
81) Pyrene-d10	19.683	212	836682	23.831	ng/ul	0.05
92) Benzo(a)pyrene-d12	23.671	264	1182102	28.233	ng/ul	0.03
Target Compounds						
						Qvalue
30) Naphthalene	10.713	128	196228140m	34458.516	ng/ul	
36) 2-Methylnaphthalene	12.519	142	106391227m	27869.105	ng/ul	
37) 1-Methylnaphthalene	12.766	142	51935846m	13537.987	ng/ul	
43) 1,1'-Biphenyl	13.448	154	49266690m	1000.014	ng/ul	
50) Acenaphthylene	14.277	152	6886652	111.466	ng/ul#	78
52) Acenaphthene	14.719	153	86180223m	2025.995	ng/ul	
56) Dibenzofuran	14.983	168	77175190m	1334.816	ng/ul	
61) Fluorene	15.736	166	65746512m	1374.674	ng/ul	
72) Phenanthrene	17.330	178	112519483m	5292.403	ng/ul	
74) Anthracene	17.560	178	18922230m	887.176	ng/ul	
77) Carbazole	17.736	167	23498095	1239.819	ng/ul	96
80) Fluoranthene	19.348	202	59337570m	1441.941	ng/ul	
82) Pyrene	19.771	202	44430108m	1042.943	ng/ul	
85) Benzo(a)anthracene	21.459	228	17601833	460.605	ng/ul	95
87) Chrysene	21.518	228	15195231m	416.855	ng/ul	
90) Benzo(b)fluoranthene	23.118	252	9806809	179.720	ng/ul	97
91) Benzo(k)fluoranthene	23.153	252	3462444m	64.611	ng/ul	
93) Benzo(a)pyrene	23.730	252	5524122	120.102	ng/ul	98
94) Indeno(1,2,3-cd)pyrene	26.277	276	1683970	33.285	ng/ul	95
95) Dibenzo(a,h)anthracene	26.277	278	479223	11.425	ng/ul#	86
96) Benzo(g,h,i)perylene	27.035	276	1383994	34.340	ng/ul	99

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

Instrument :

BNA_M

ClientSampleId :

DCBM0

Manual Integrations**APPROVED**

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Supervised By :Jagrut Upadhyay 04/20/2023

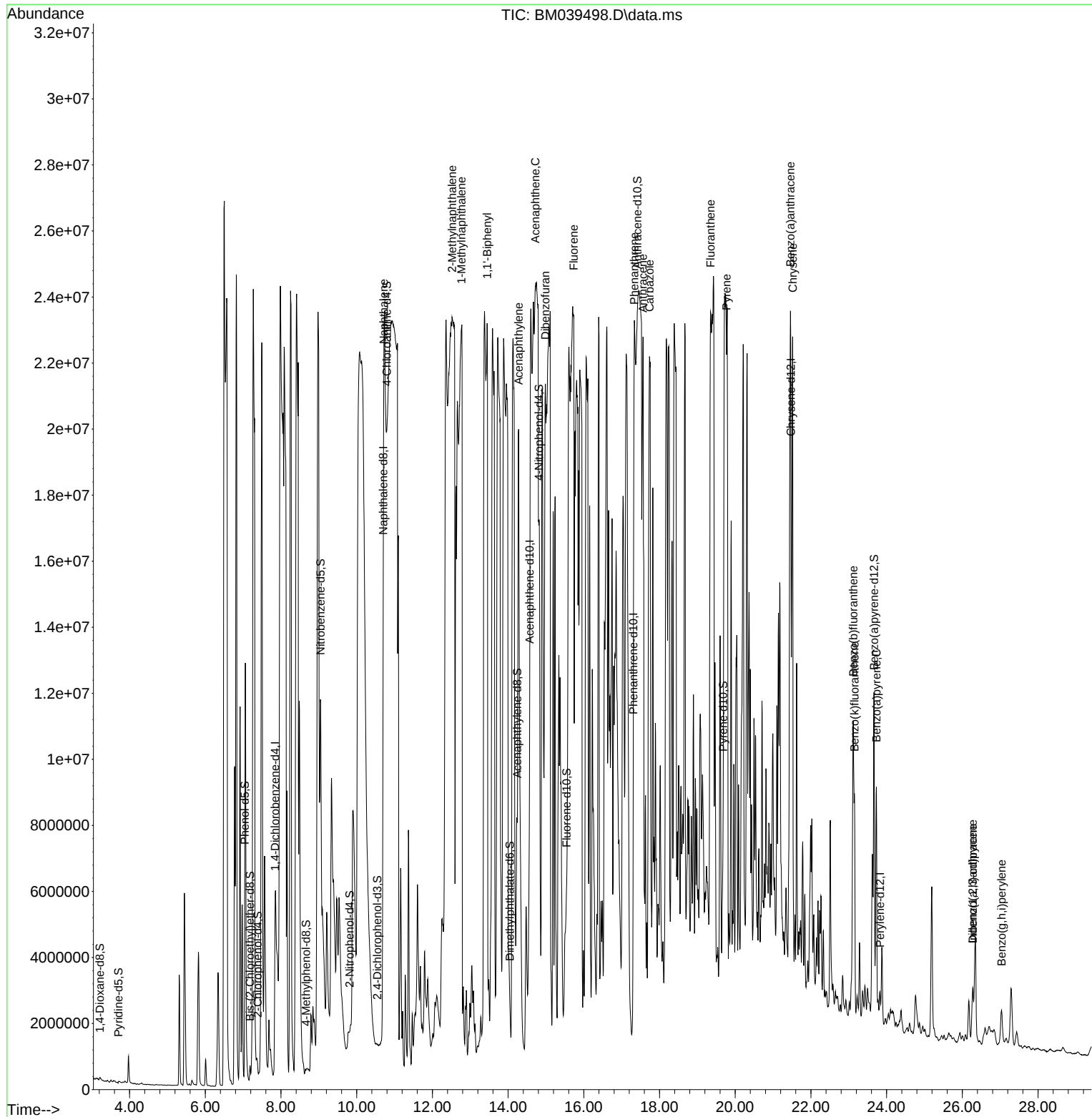
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM041823\
 Data File : BM039498.D
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 ALS Vial : 50 Sample Multiplier: 1

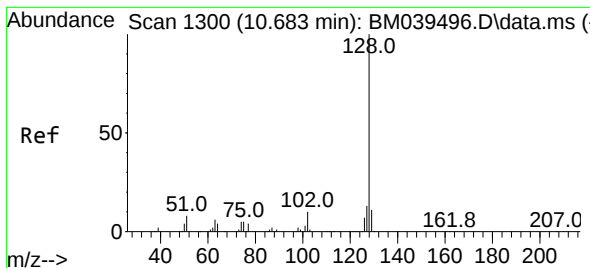
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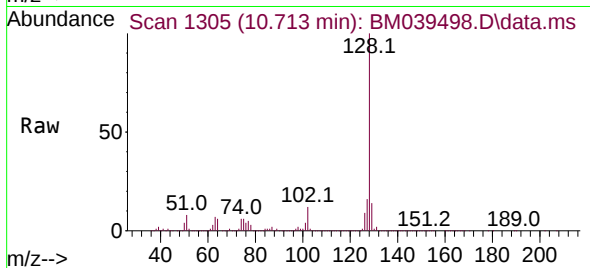
Reviewed By : Christian Giraldo 04/20/2023
 Supervised By : Jagrut Upadhyay 04/20/2023





#30
Naphthalene
Concen: 34458.516 ng/ul m
RT: 10.713 min Scan# 1305
Delta R.T. 0.027 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

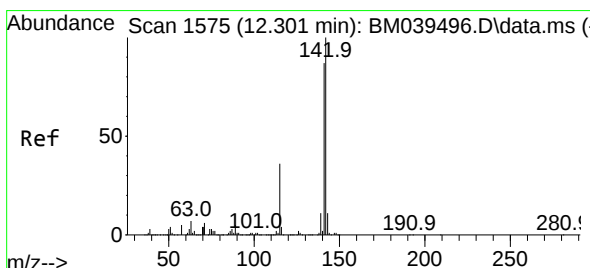
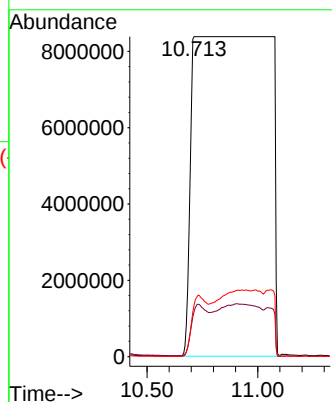
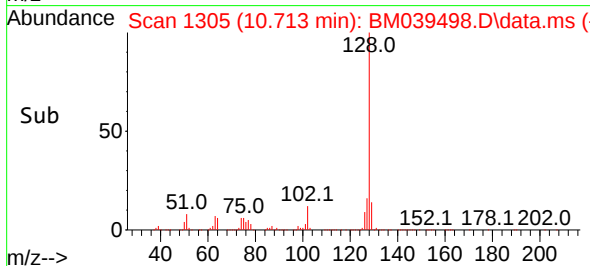
Instrument :
BNA_M
ClientSampleId :
DCBM0



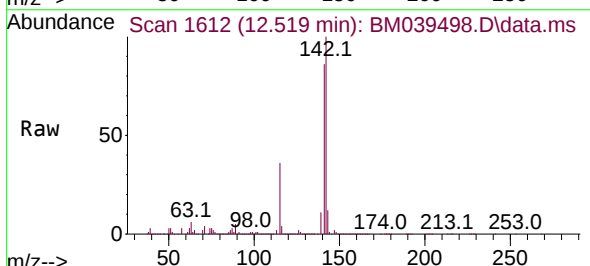
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Ion Ratio Lower Upper
128 100
129 14.1 8.9 13.3
127 16.2 10.5 15.7

Manual Integrations
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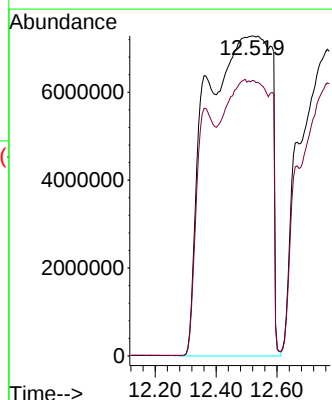
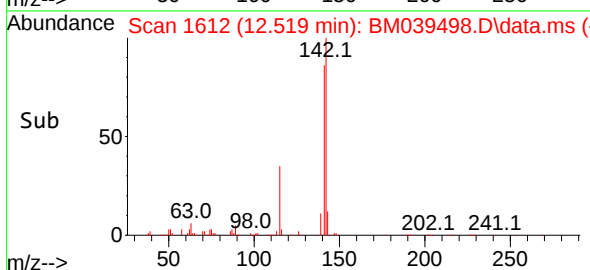
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/20/2023

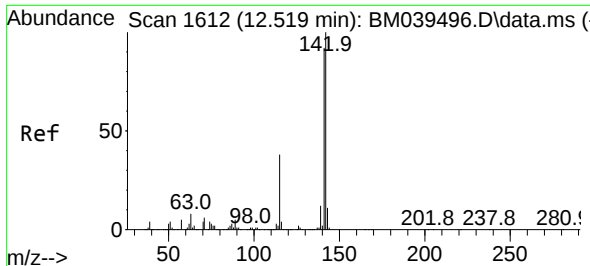


#36
2-Methylnaphthalene
Concen: 27869.105 ng/ul m
RT: 12.519 min Scan# 1612
Delta R.T. 0.215 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52



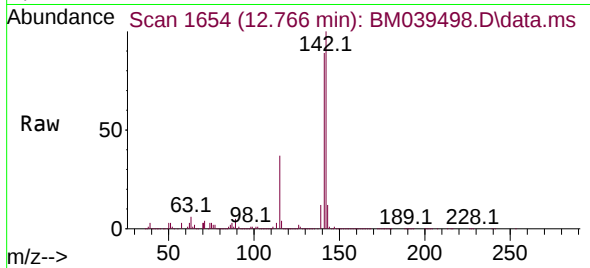
Tgt Ion:142 Resp:106391227
Ion Ratio Lower Upper
142 100
141 86.1 71.1 106.7





#37
1-Methylnaphthalene
Concen: 13537.987 ng/ul m
RT: 12.766 min Scan# 1
Delta R.T. 0.244 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

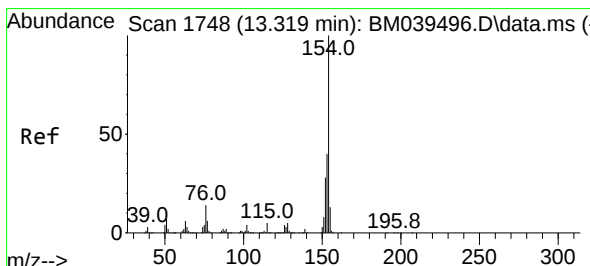
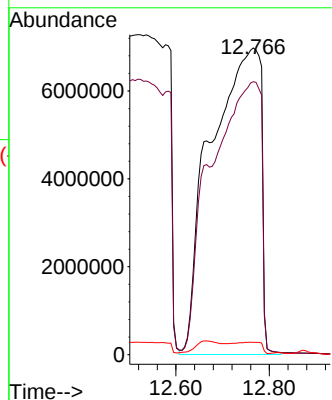
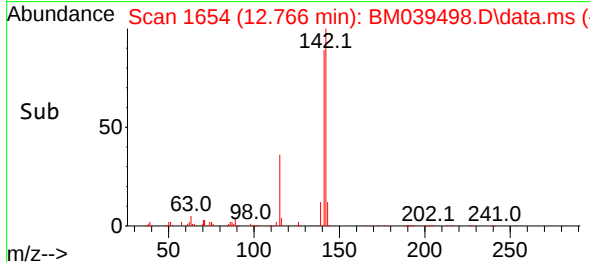
Instrument :
BNA_M
ClientSampleId :
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Ion Ratio Lower Upper
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141 89.0 72.0 108.0
116 4.0 3.2 4.8

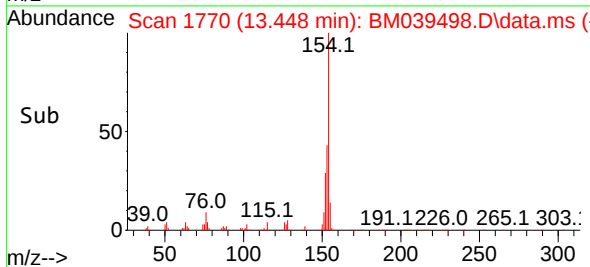
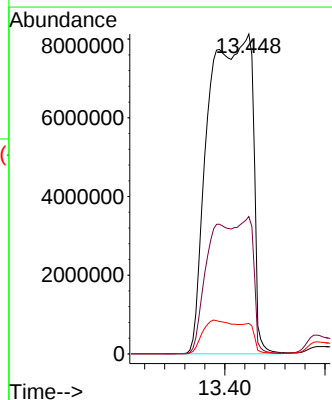
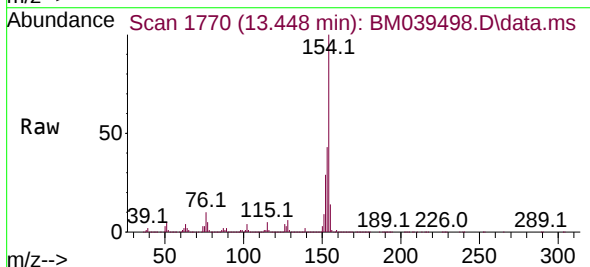
Manual Integrations
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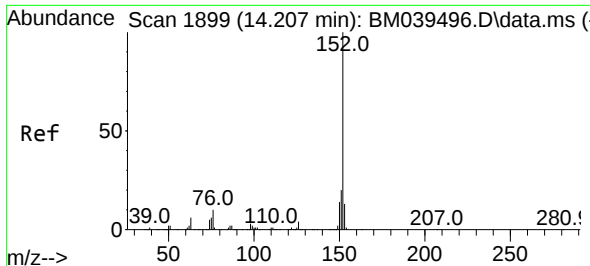
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/20/2023



#43
1,1'-Biphenyl
Concen: 1000.014 ng/ul m
RT: 13.448 min Scan# 1770
Delta R.T. 0.127 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

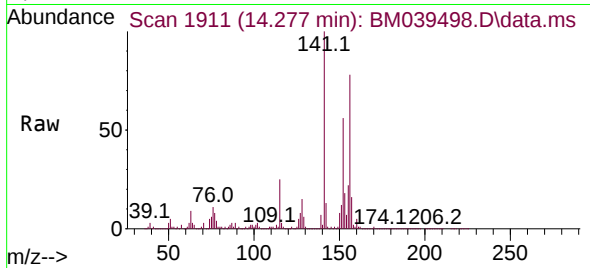
Tgt Ion:154 Resp:49266690
Ion Ratio Lower Upper
154 100
153 42.9 31.9 47.9
76 9.5 11.5 17.3#





#50
Acenaphthylene
Concen: 111.466 ng/ul
RT: 14.277 min Scan# 1911
Delta R.T. 0.068 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

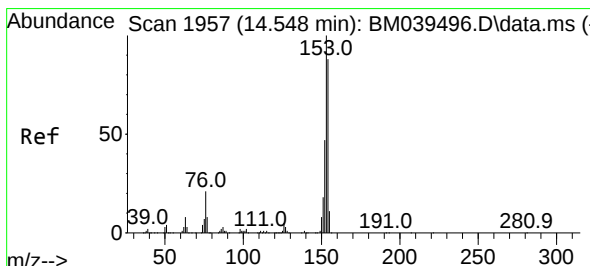
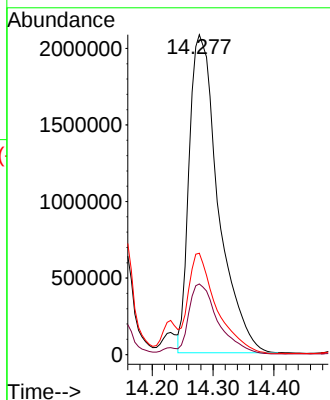
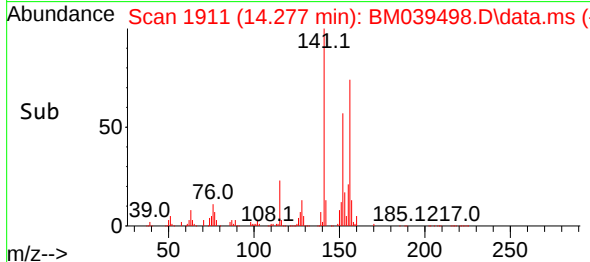
Instrument :
BNA_M
ClientSampleId :
DCBM0



Tgt Ion:152 Resp: 6886652
Ion Ratio Lower Upper
152 100
151 22.1 15.8 23.8
153 31.7 10.4 15.6

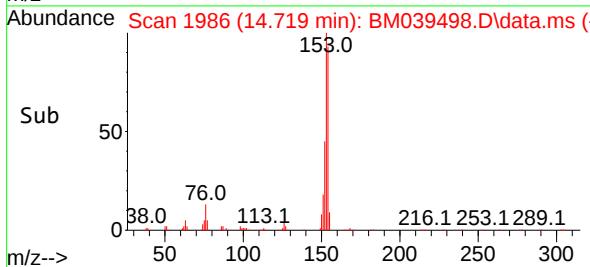
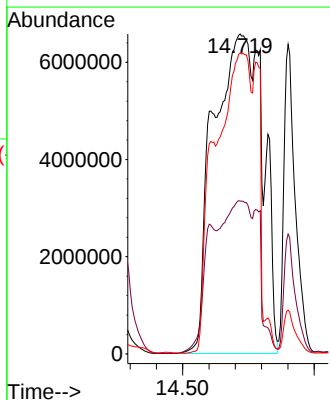
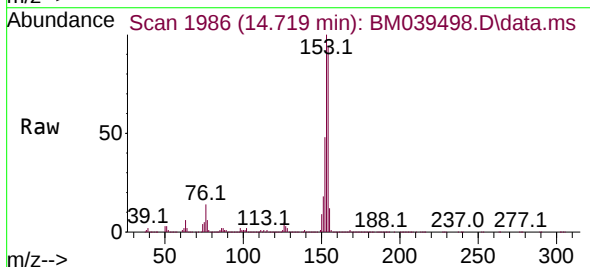
Manual Integrations
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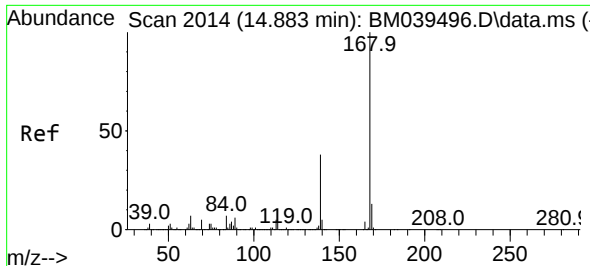
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/20/2023



#52
Acenaphthene
Concen: 2025.995 ng/ul m
RT: 14.719 min Scan# 1986
Delta R.T. 0.168 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

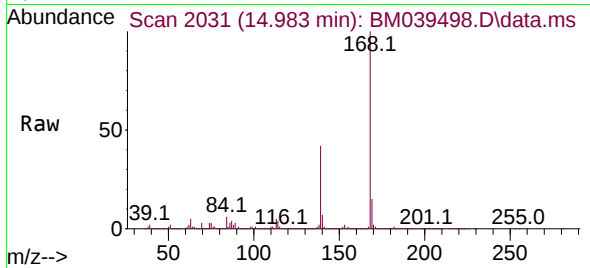
Tgt Ion:153 Resp:86180223
Ion Ratio Lower Upper
153 100
152 47.8 38.2 57.4
154 94.0 71.0 106.4





#56
Dibenzofuran
Concen: 1334.816 ng/ul m
RT: 14.983 min Scan# 2014
Delta R.T. 0.097 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

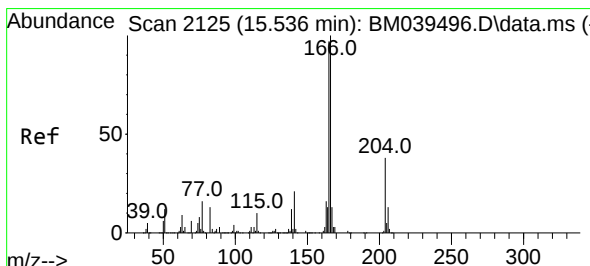
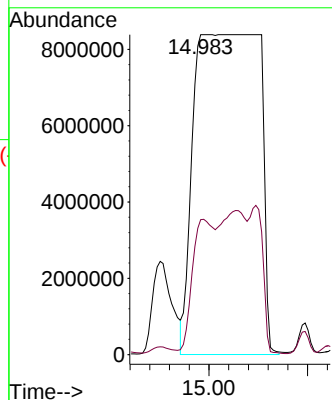
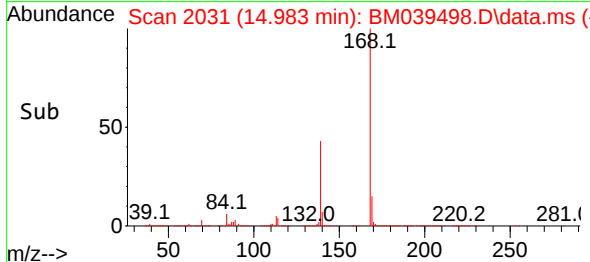
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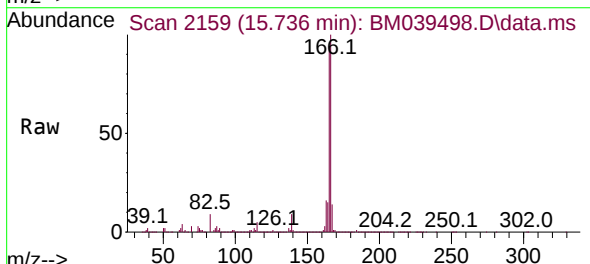
Tgt Ion:168 Resp:77175190
Ion Ratio Lower Upper
168 100
139 42.2 30.7 46.1

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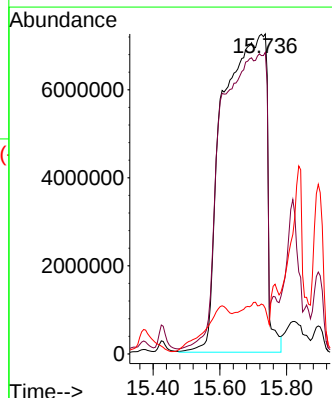
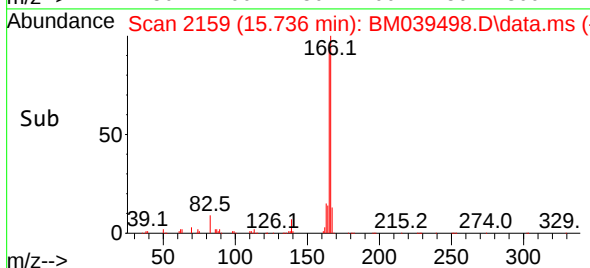
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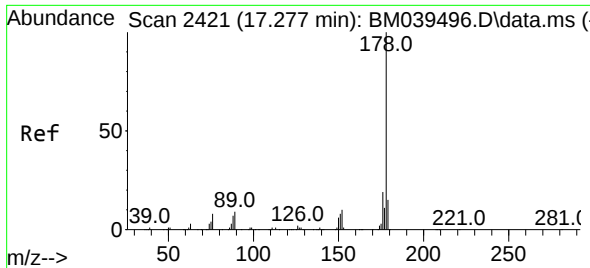


#61
Fluorene
Concen: 1374.674 ng/ul m
RT: 15.736 min Scan# 2159
Delta R.T. 0.197 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52



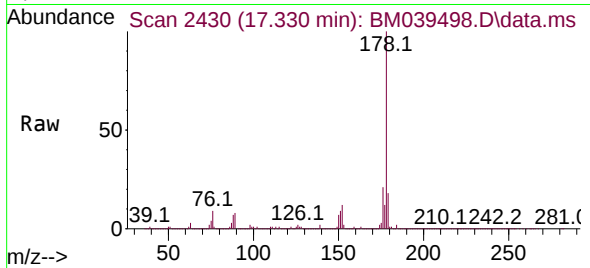
Tgt Ion:166 Resp:65746512
Ion Ratio Lower Upper
166 100
165 94.2 78.2 117.2
167 14.2 10.7 16.1





#72
Phenanthrene
Concen: 5292.403 ng/ul m
RT: 17.330 min Scan# 2421
Delta R.T. 0.050 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

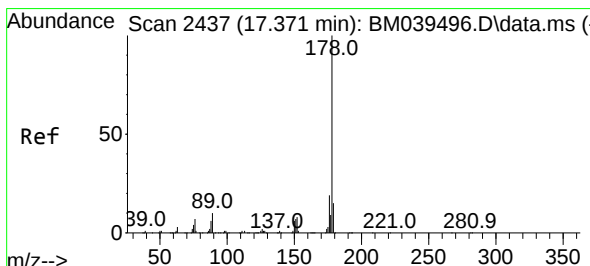
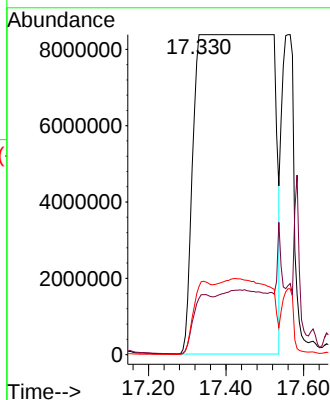
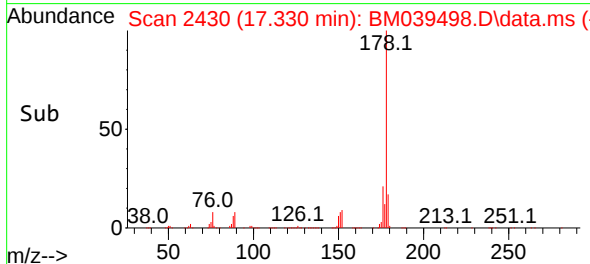
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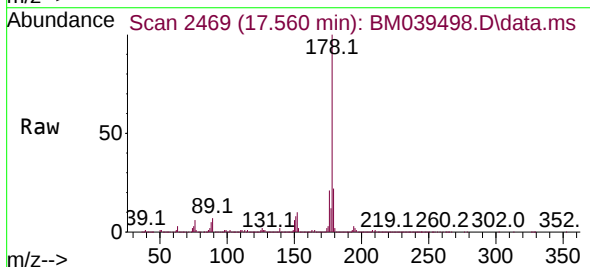
Tgt Ion:178 Resp:11251948
Ion Ratio Lower Upper
178 100
179 17.6 12.2 18.4
176 21.3 15.8 23.8

Manual Integrations
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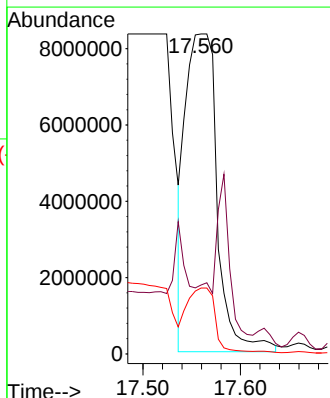
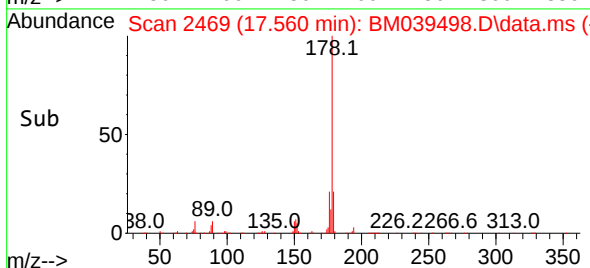
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/20/2023

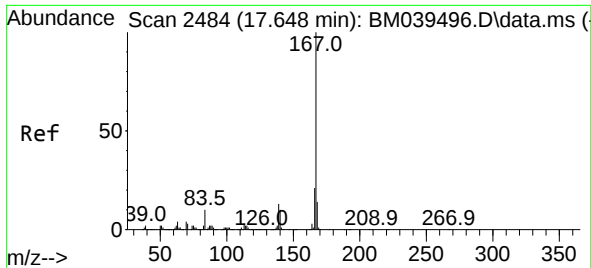


#74
Anthracene
Concen: 887.176 ng/ul m
RT: 17.560 min Scan# 2469
Delta R.T. 0.185 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52



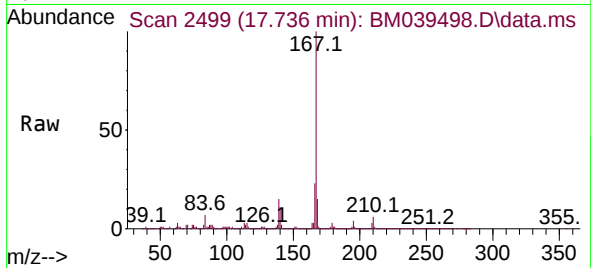
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Ion Ratio Lower Upper
178 100
179 21.5 12.1 18.1#
176 20.6 15.0 22.6





#77
 Carbazole
 Concen: 1239.819 ng/ul
 RT: 17.736 min Scan# 2484
 Delta R.T. 0.085 min
 Lab File: BM039498.D
 Acq: 19 Apr 2023 16:52

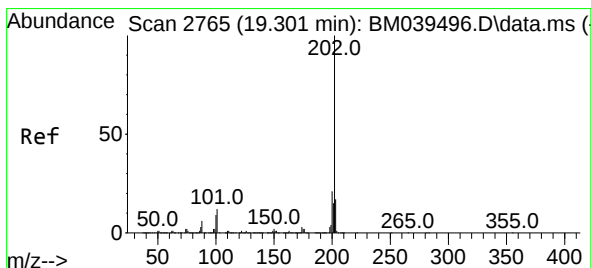
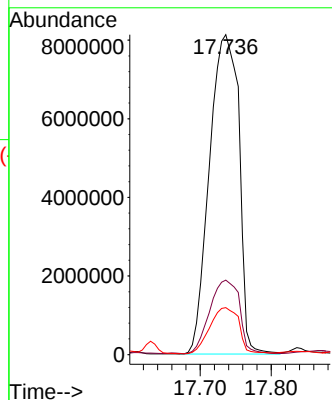
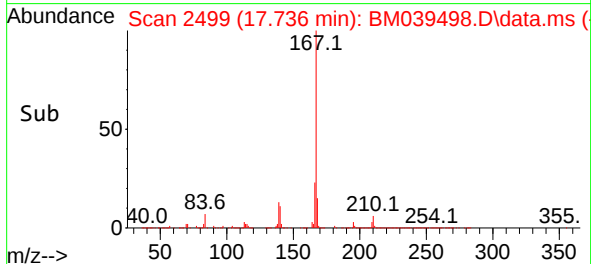
Instrument :
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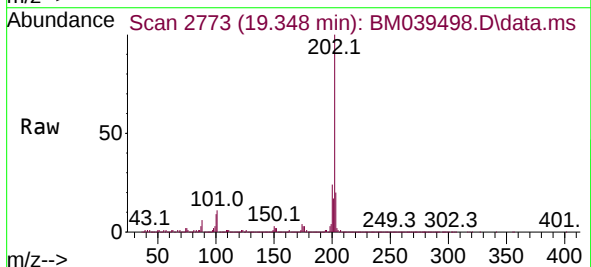
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 Ion Ratio Lower Upper
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 166 23.3 17.0 25.4
 139 14.7 10.6 15.8

Manual Integrations
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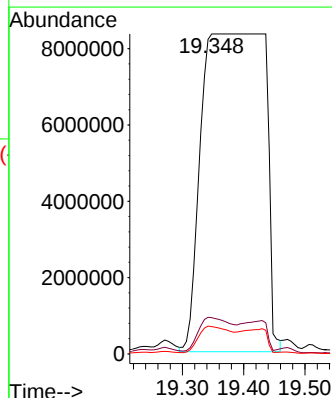
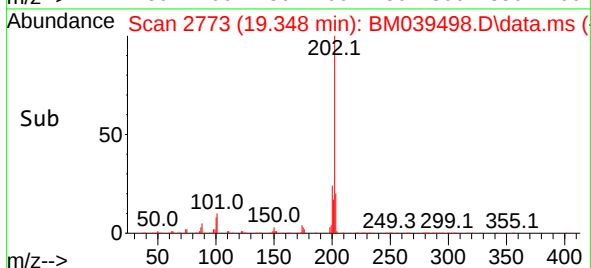
Reviewed By :Christian Giraldo 04/20/2023
 Supervised By :Jagrut Upadhyay 04/20/2023

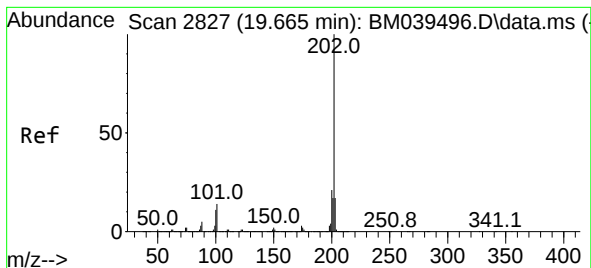


#80
 Fluoranthene
 Concen: 1441.941 ng/ul m
 RT: 19.348 min Scan# 2773
 Delta R.T. 0.050 min
 Lab File: BM039498.D
 Acq: 19 Apr 2023 16:52



Tgt Ion:202 Resp:59337570
 Ion Ratio Lower Upper
 202 100
 101 11.3 10.4 15.6
 100 8.6 7.7 11.5





#82

Pyrene

Concen: 1042.943 ng/ul m

RT: 19.771 min Scan# 2845

Delta R.T. 0.109 min

Lab File: BM039498.D

Acq: 19 Apr 2023 16:52

Instrument :

BNM

ClientSampleId :

DCBM0

Tgt Ion:202 Resp:44430108

Ion Ratio Lower Upper

202 100

101 10.7 12.1 18.1

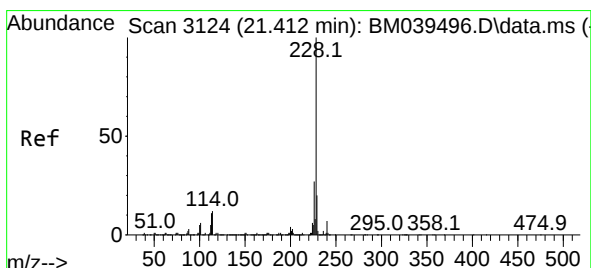
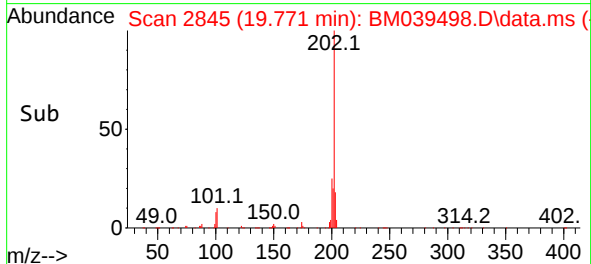
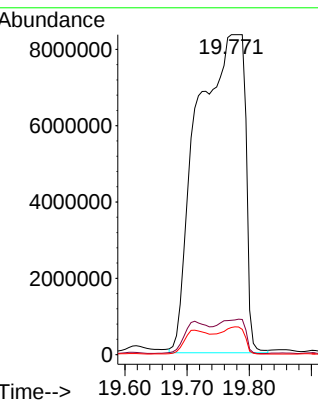
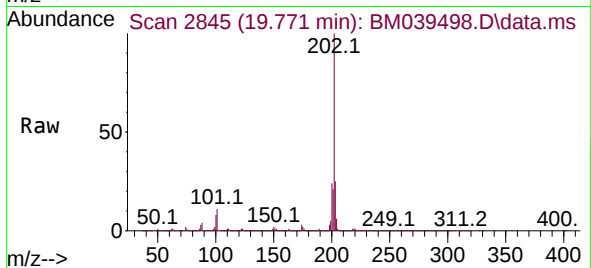
100 8.5 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/20/2023

Supervised By :Jagrut Upadhyay 04/20/2023



#85

Benzo(a)anthracene

Concen: 460.605 ng/ul

RT: 21.459 min Scan# 3132

Delta R.T. 0.044 min

Lab File: BM039498.D

Acq: 19 Apr 2023 16:52

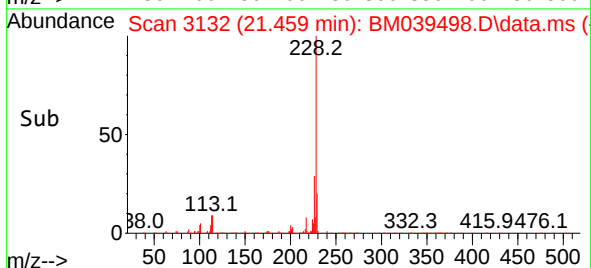
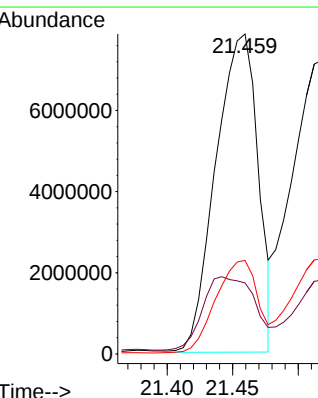
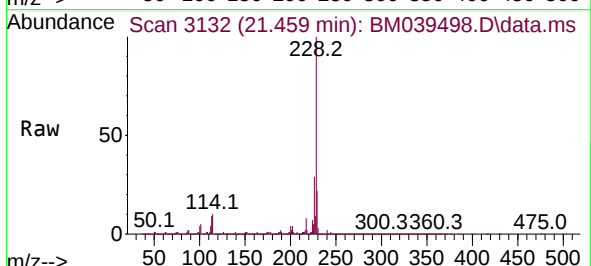
Tgt Ion:228 Resp:17601833

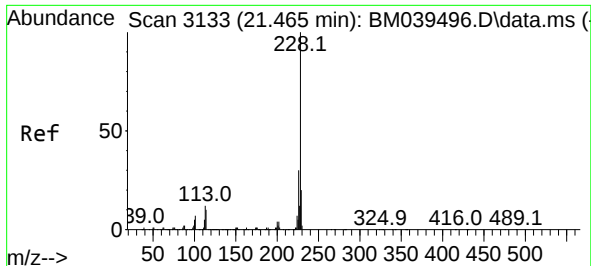
Ion Ratio Lower Upper

228 100

229 22.2 15.4 23.2

226 29.2 21.6 32.4





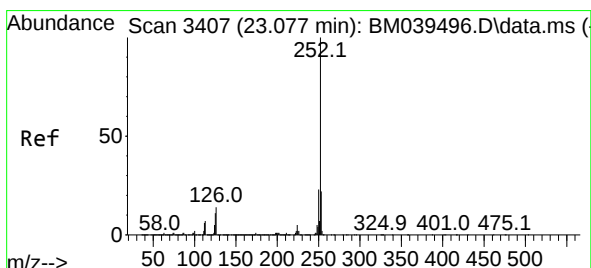
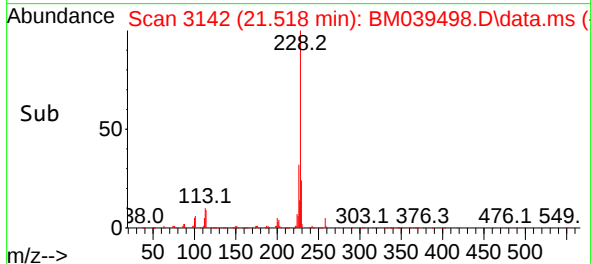
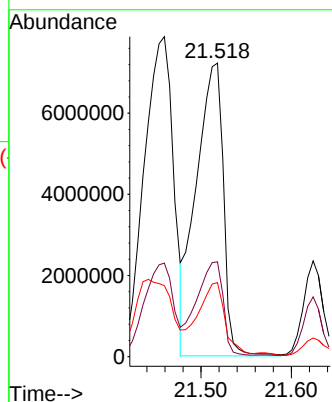
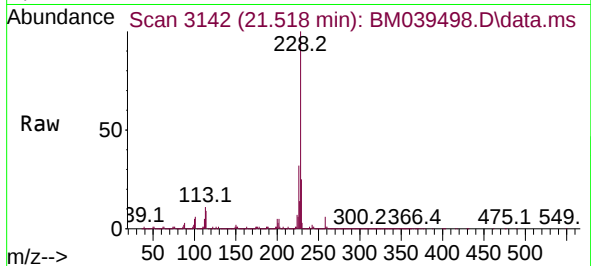
#87
Chrysene
Concen: 416.855 ng/ul m
RT: 21.518 min Scan# 3142
Delta R.T. 0.050 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

Instrument :
BNA_M
ClientSampleId :
DCBM0

Tgt Ion:228 Resp:1519523
Ion Ratio Lower Upper
228 100
226 32.3 23.9 35.9
229 25.2 15.8 23.6

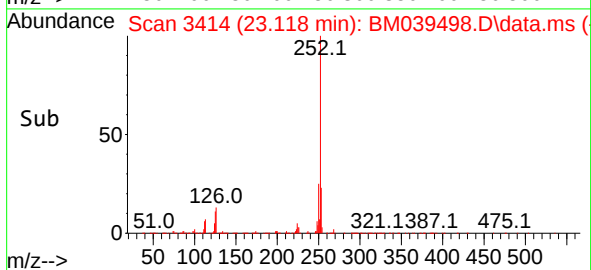
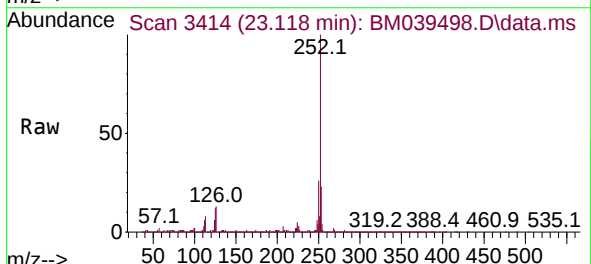
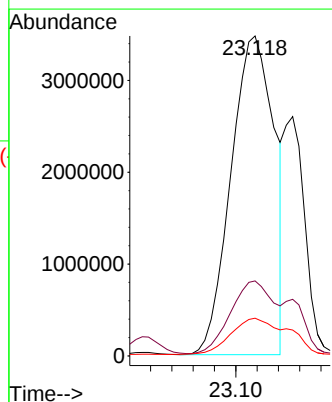
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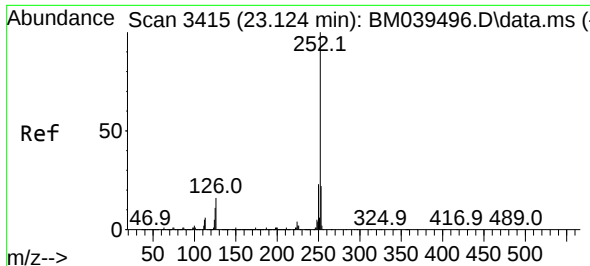
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/20/2023



#90
Benzo(b)fluoranthene
Concen: 179.720 ng/ul
RT: 23.118 min Scan# 3414
Delta R.T. 0.044 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

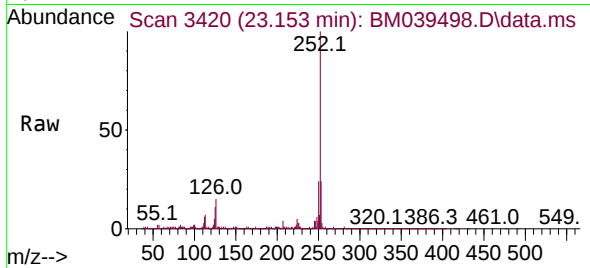
Tgt Ion:252 Resp: 9806809
Ion Ratio Lower Upper
252 100
253 23.4 17.4 26.2
125 11.8 8.7 13.1





#91
Benzo(k)fluoranthene
Concen: 64.611 ng/ul m
RT: 23.153 min Scan# 3415
Delta R.T. 0.027 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

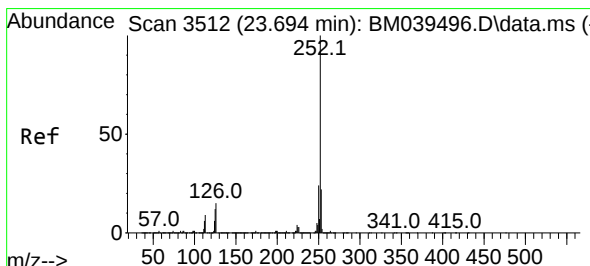
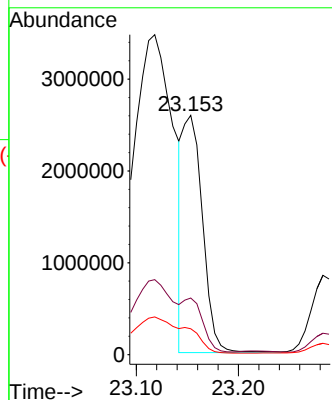
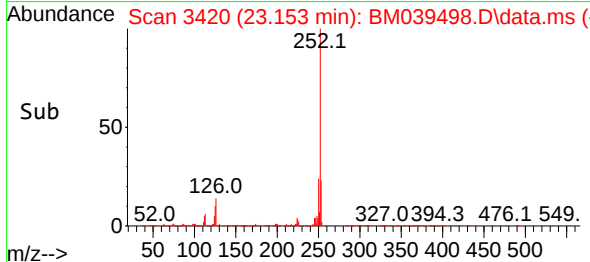
Instrument :
BNA_M
ClientSampleId :
DCBM0



Tgt Ion:252 Resp: 3462444
Ion Ratio Lower Upper
252 100
253 23.6 17.6 26.4
125 10.8 8.6 12.8

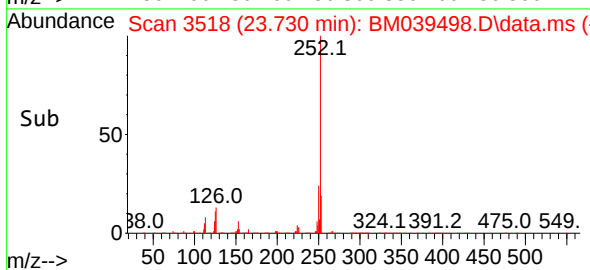
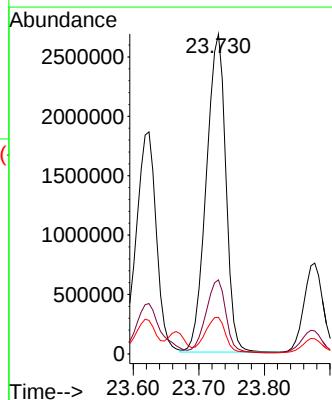
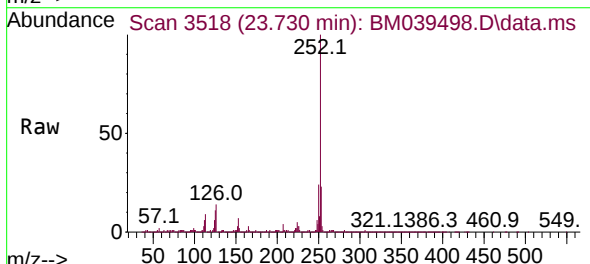
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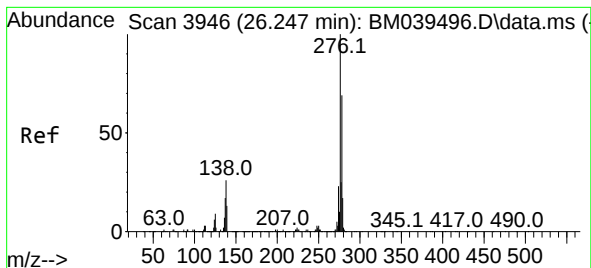
Reviewed By :Christian Giraldo 04/20/2023
Supervised By :Jagrut Upadhyay 04/20/2023



#93
Benzo(a)pyrene
Concen: 120.102 ng/ul
RT: 23.730 min Scan# 3518
Delta R.T. 0.038 min
Lab File: BM039498.D
Acq: 19 Apr 2023 16:52

Tgt Ion:252 Resp: 5524122
Ion Ratio Lower Upper
252 100
253 23.1 17.4 26.0
125 11.4 9.4 14.2





#94

Indeno(1,2,3-cd)pyrene

Concen: 33.285 ng/ul

RT: 26.277 min Scan# 3951

Delta R.T. 0.027 min

Lab File: BM039498.D

Acq: 19 Apr 2023 16:52

Instrument :

BNA_M

ClientSampleId :

DCBM0

Tgt Ion:276 Resp: 1683976

Ion Ratio Lower Upper

276 100

138 22.7 21.2 31.8

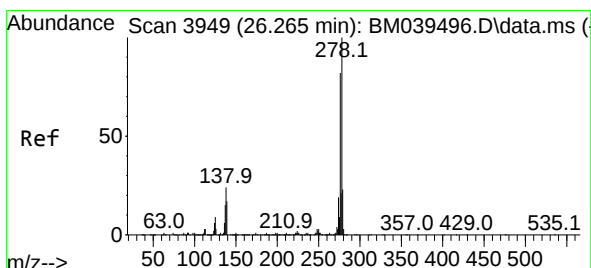
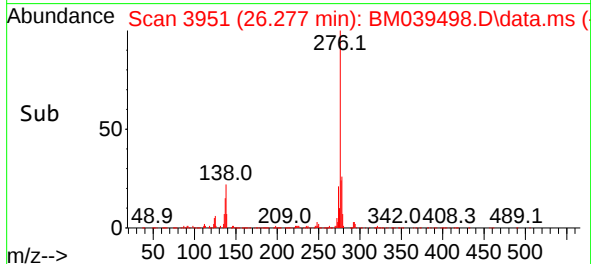
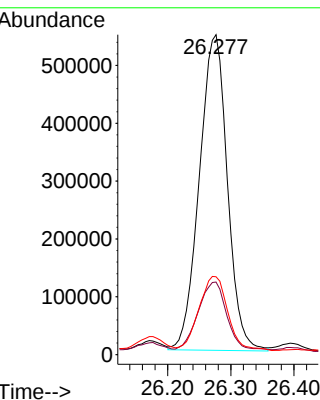
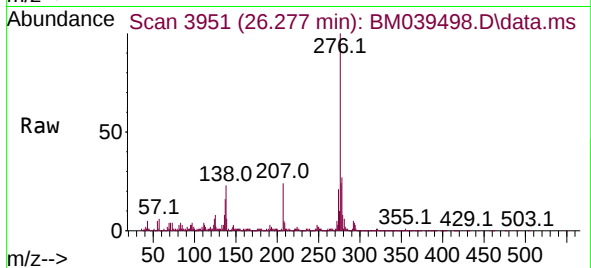
277 24.3 20.1 30.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/20/2023

Supervised By :Jagrut Upadhyay 04/20/2023



#95

Dibenzo(a,h)anthracene

Concen: 11.425 ng/ul

RT: 26.277 min Scan# 3951

Delta R.T. 0.009 min

Lab File: BM039498.D

Acq: 19 Apr 2023 16:52

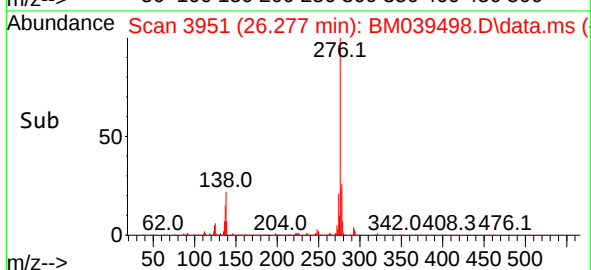
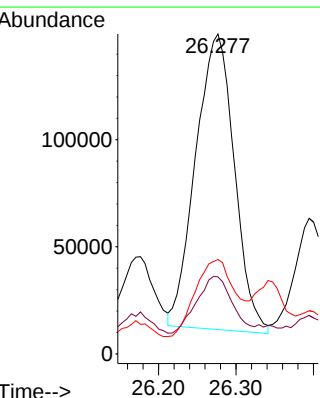
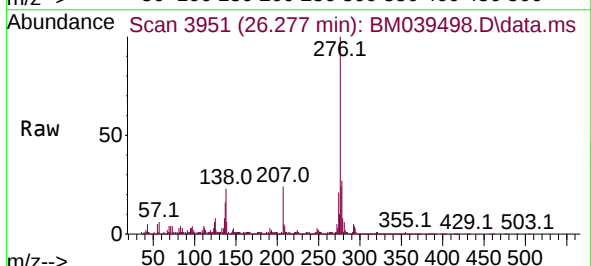
Tgt Ion:278 Resp: 479223

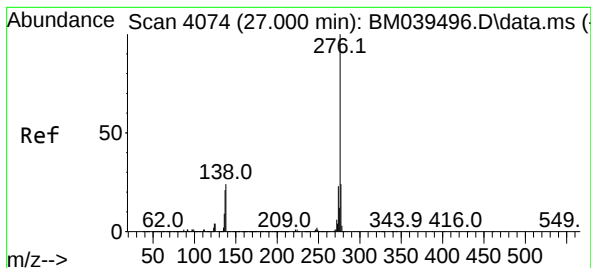
Ion Ratio Lower Upper

278 100

139 24.1 13.5 20.3#

279 29.5 18.9 28.3#





#96

Benzo(g,h,i)perylene

Concen: 34.340 ng/ul

RT: 27.035 min Scan# 40

Delta R.T. 0.032 min

Lab File: BM039498.D

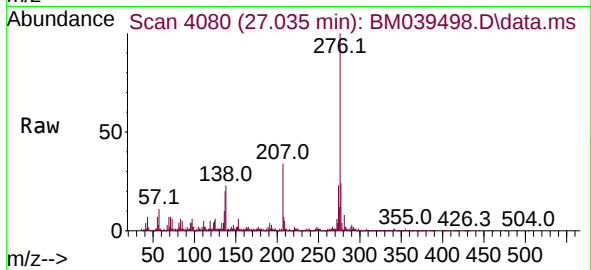
Acq: 19 Apr 2023 16:52

Instrument :

BNA_M

ClientSampleId :

DCBM0



Tgt Ion:276 Resp: 1383994

Ion Ratio Lower Upper

276 100

138 23.4 18.7 28.1

277 24.3 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 04/20/2023

Supervised By :Jagrut Upadhyay 04/20/2023

