

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121721\
 Data File : BM033502.D
 Acq On : 17 Dec 2021 12:33
 Operator : CG/JU
 Sample : M5089-14
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 MS-4

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 12/18/2021
 Supervised By : Jagrut Upadhyay 12/20/2021

Quant Time: Dec 17 13:02:18 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121621.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Dec 16 17:10:15 2021
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.937	152	49681	20.000	ng	0.00
21) Naphthalene-d8	10.748	136	214025	20.000	ng	0.00
39) Acenaphthene-d10	14.583	164	146678	20.000	ng	0.00
64) Phenanthrene-d10	17.330	188	297143	20.000	ng	0.00
76) Chrysene-d12	21.506	240	193722	20.000	ng	0.00
86) Perylene-d12	23.924	264	158447	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.501	112	433937	150.717	ng	0.00
7) Phenol-d6	7.107	99	595439	154.106	ng	0.00
23) Nitrobenzene-d5	9.107	82	453639	91.009	ng	0.00
42) 2,4,6-Tribromophenol	16.071	330	223011	135.161	ng	0.00
45) 2-Fluorobiphenyl	13.207	172	935163	88.194	ng	0.00
79) Terphenyl-d14	19.953	244	1287103	104.600	ng	0.00
Target Compounds						Qvalue
10) Phenol	7.131	94	8999	2.305	ng	# 41
37) 2-Methylnaphthalene	12.407	142	21767	2.714	ng	93
52) Acenaphthene	14.642	154	56878	7.041	ng	97
55) Dibenzofuran	14.983	168	64125	4.684	ng	94
58) Fluorene	15.630	166	69510	6.326	ng	97
71) Phenanthrene	17.371	178	639947	38.696	ng	99
72) Anthracene	17.459	178	118833	7.350	ng	98
73) Carbazole	17.742	167	50100	3.510	ng	98
75) Fluoranthene	19.389	202	1046795	55.024	ng	97
78) Pyrene	19.748	202	767244	50.196	ng	99
81) Benzo(a)anthracene	21.495	228	226902	17.476	ng	96
83) Chrysene	21.547	228	249973m	19.996	ng	
84) Bis(2-ethylhexyl)phtha...	21.418	149	648612	64.691	ng	99
87) Indeno(1,2,3-cd)pyrene	26.424	276	77611	10.624	ng	# 93
88) Benzo(b)fluoranthene	23.189	252	245802m	24.192	ng	
89) Benzo(k)fluoranthene	23.230	252	49662m	4.832	ng	
90) Benzo(a)pyrene	23.818	252	126073	16.581	ng	97
91) Dibenzo(a,h)anthracene	26.430	278	23209	4.236	ng	# 77
92) Benzo(g,h,i)perylene	27.206	276	81755	11.603	ng	97

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

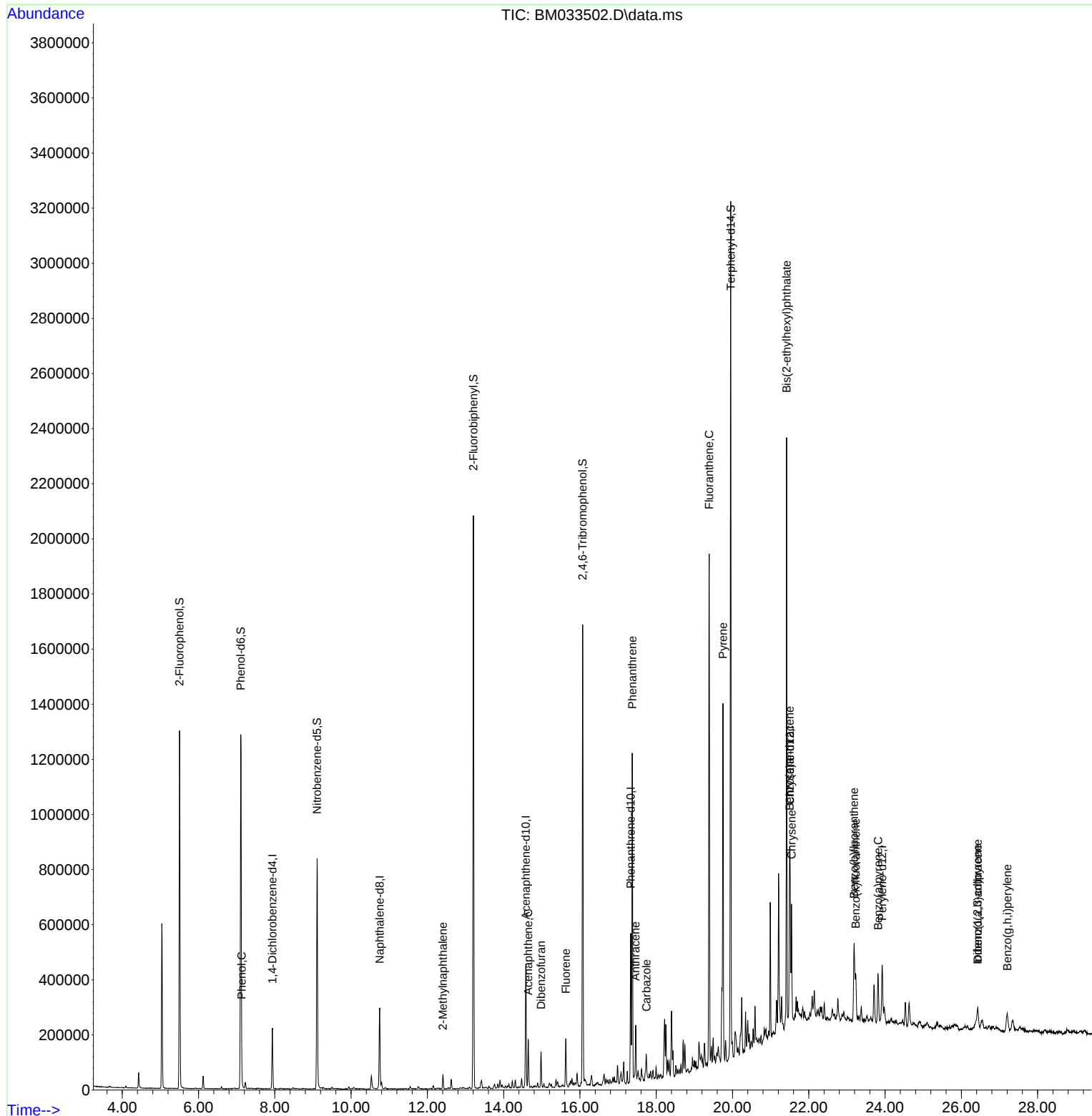
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM121721\
Data File : BM033502.D
Acq On : 17 Dec 2021 12:33
Operator : CG/JU
Sample : M5089-14
Misc :
ALS Vial : 7 Sample Multiplier: 1

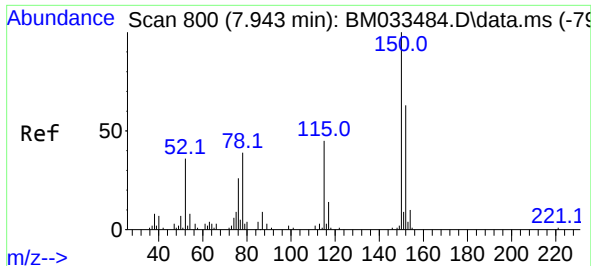
Instrument :
BNA_M
ClientSampleId :
MS-4

Quant Time: Dec 17 13:02:18 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM121621.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Dec 16 17:10:15 2021
Response via : Initial Calibration

Manual Integrations
APPROVED

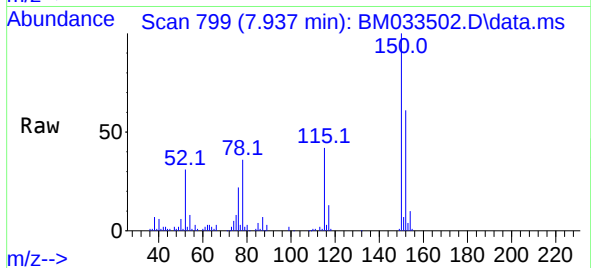
Reviewed By : Christian Giraldo 12/18/2021
Supervised By : Jagrut Upadhyay 12/20/2021





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.937 min Scan# 79
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

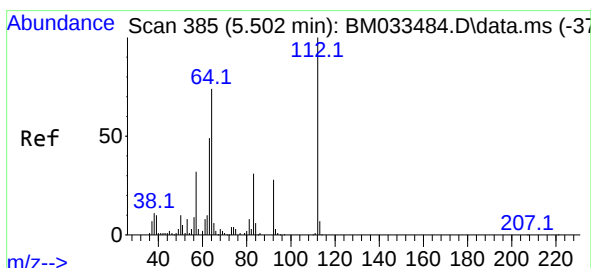
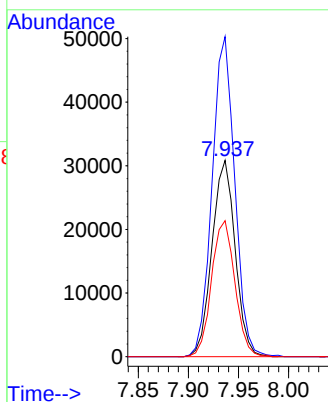
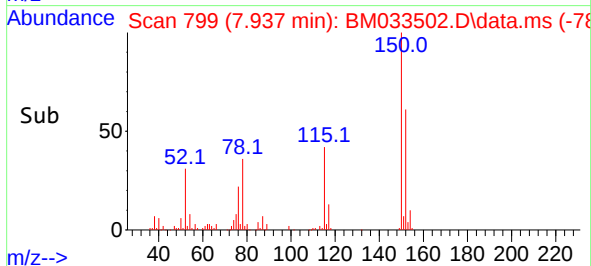
Instrument :
BNA_M
ClientSampleId :
MS-4



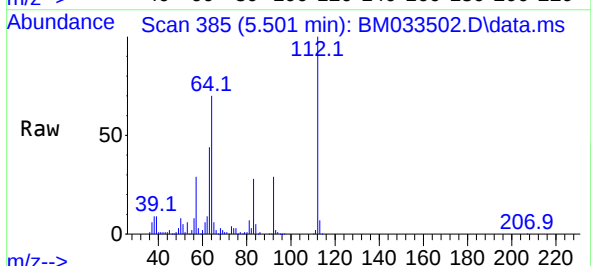
Tgt Ion:152 Resp: 4968
Ion Ratio Lower Upper
152 100
150 163.0 128.9 193.3
115 69.3 53.0 79.6

Manual Integrations
APPROVED

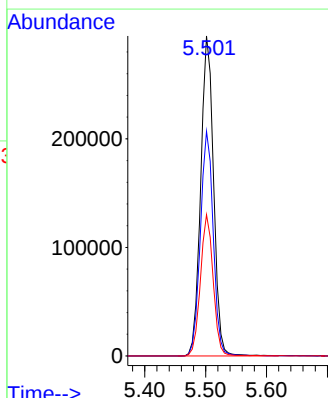
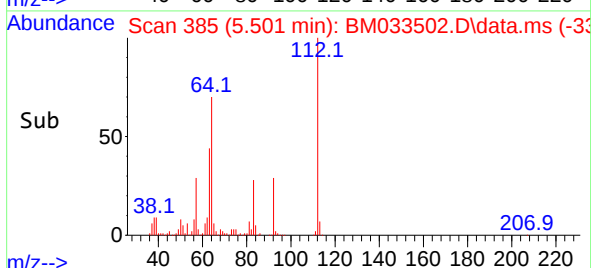
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

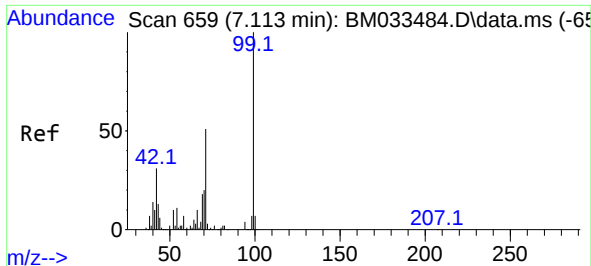


#5
2-Fluorophenol
Concen: 150.717 ng
RT: 5.501 min Scan# 385
Delta R.T. -0.001 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33



Tgt Ion:112 Resp: 433937
Ion Ratio Lower Upper
112 100
64 70.2 55.5 83.3
63 44.2 31.3 46.9





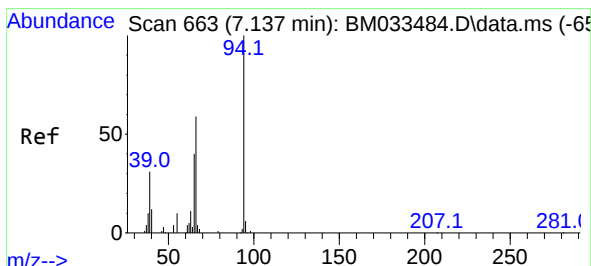
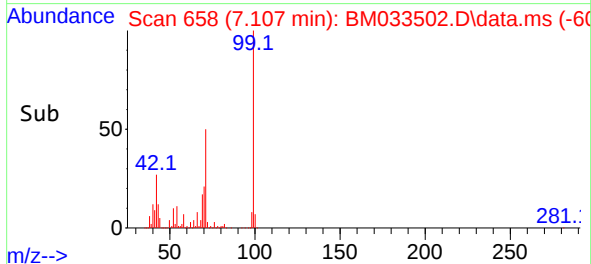
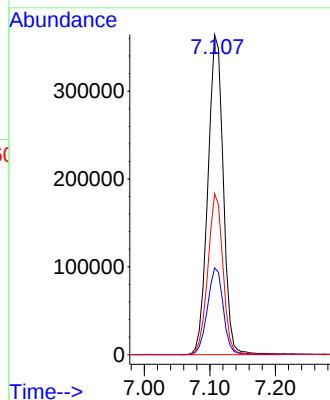
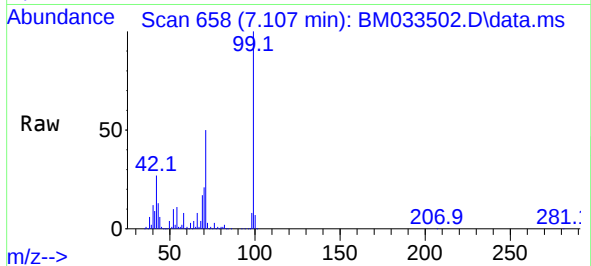
#7
Phenol-d6
Concen: 154.106 ng
RT: 7.107 min Scan# 61
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Instrument :
BNA_M
ClientSampleId :
MS-4

Tgt Ion: 99 Resp: 595439
Ion Ratio Lower Upper
99 100
42 27.1 20.3 30.5
71 50.3 34.5 51.7

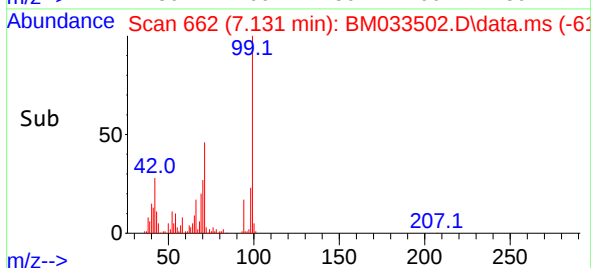
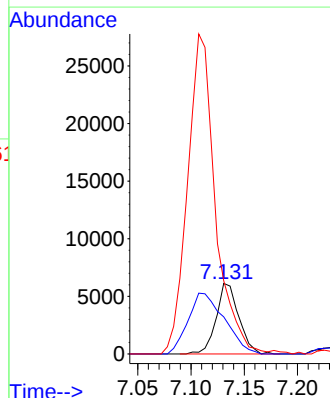
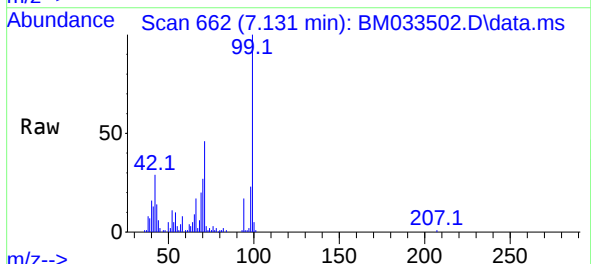
Manual Integrations
APPROVED

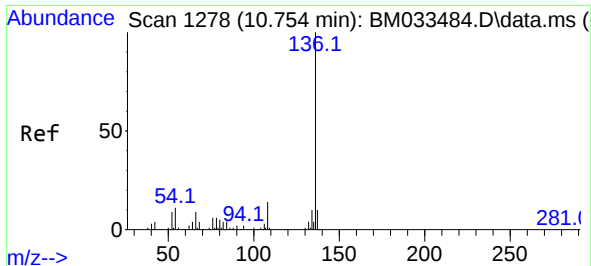
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021



#10
Phenol
Concen: 2.305 ng
RT: 7.131 min Scan# 662
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

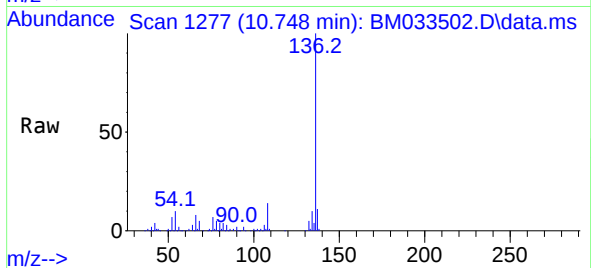
Tgt Ion: 94 Resp: 8999
Ion Ratio Lower Upper
94 100
65 52.6 15.5 55.5
66 103.8 28.5 68.5#





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.748 min Scan# 1
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

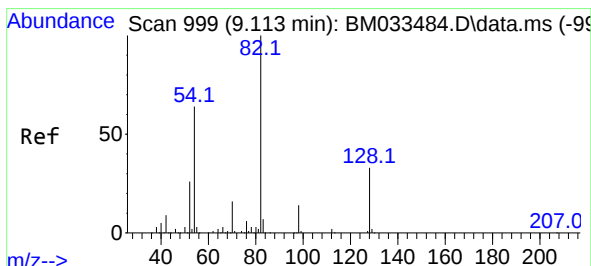
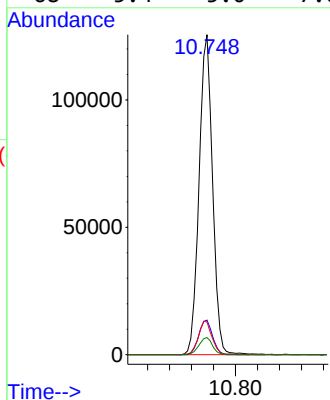
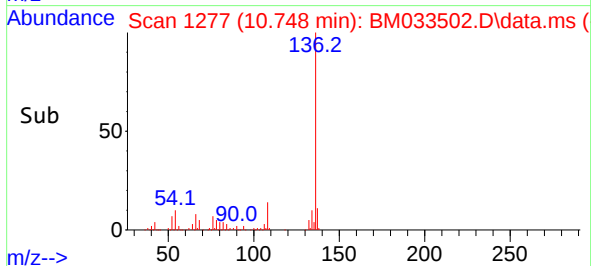
Instrument :
BNA_M
ClientSampleId :
MS-4



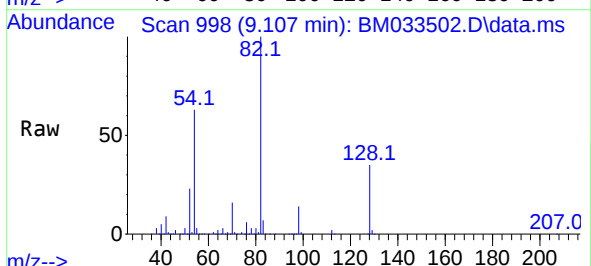
Tgt Ion:136 Resp: 21402
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 10.2 8.3 12.5
68 5.4 5.0 7.6

Manual Integrations
APPROVED

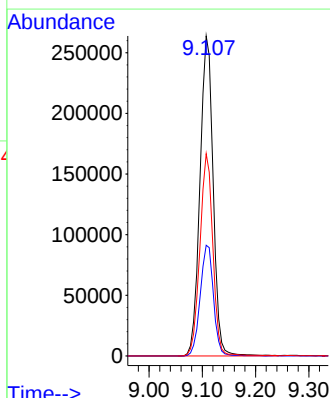
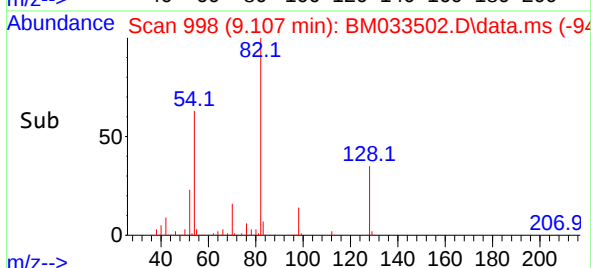
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

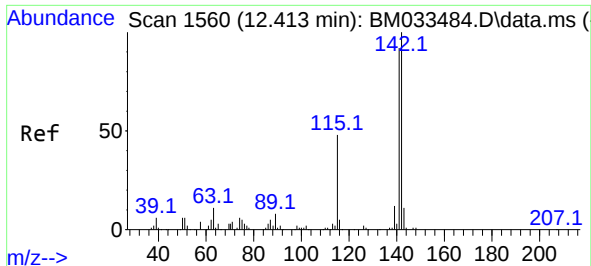


#23
Nitrobenzene-d5
Concen: 91.009 ng
RT: 9.107 min Scan# 998
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33



Tgt Ion: 82 Resp: 453639
Ion Ratio Lower Upper
82 100
128 34.6 28.1 42.1
54 63.2 46.1 69.1





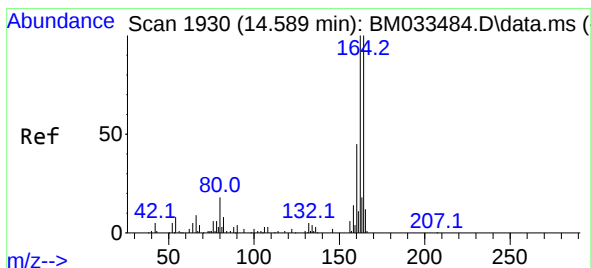
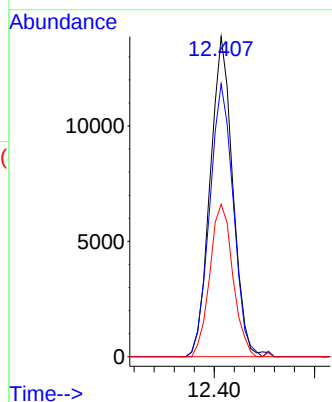
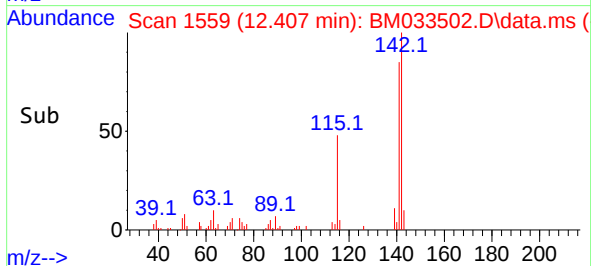
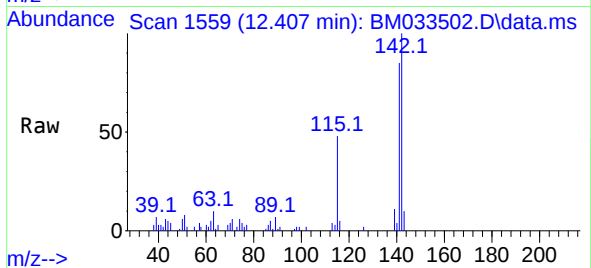
#37
2-Methylnaphthalene
Concen: 2.714 ng
RT: 12.407 min Scan# 1159
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Instrument :
BNA_M
ClientSampleId :
MS-4

Tgt Ion:142 Resp: 2176
Ion Ratio Lower Upper
142 100
141 85.3 72.2 108.2
115 47.6 33.0 49.6

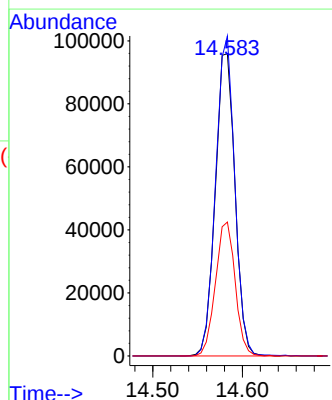
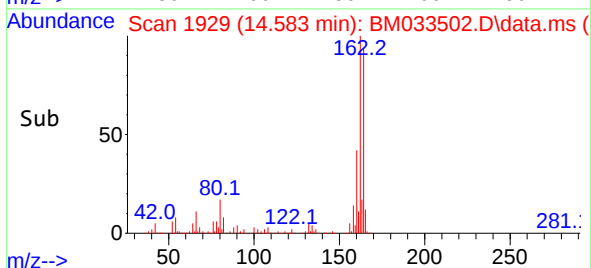
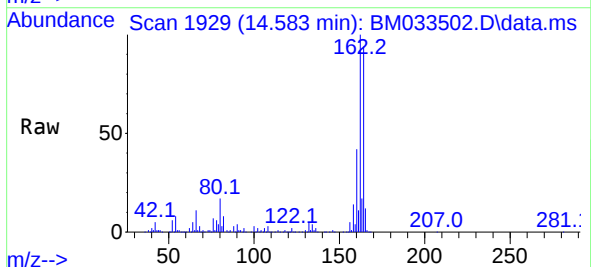
Manual Integrations
APPROVED

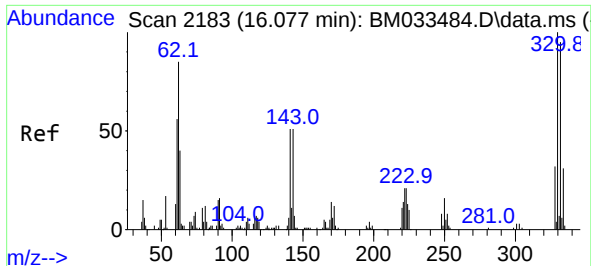
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.583 min Scan# 1929
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

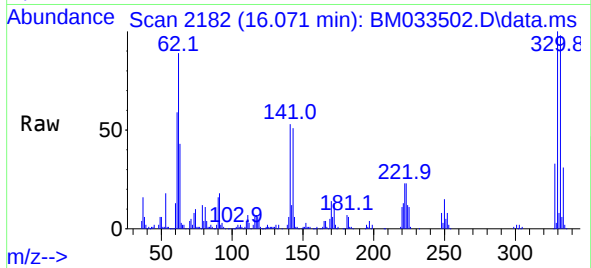
Tgt Ion:164 Resp: 146678
Ion Ratio Lower Upper
164 100
162 105.9 79.7 119.5
160 44.3 34.2 51.4





#42
2,4,6-Tribromophenol
Concen: 135.161 ng
RT: 16.071 min Scan# 2183
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

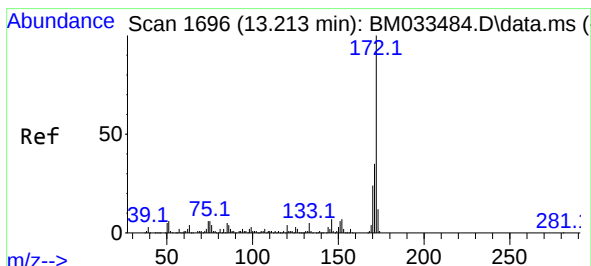
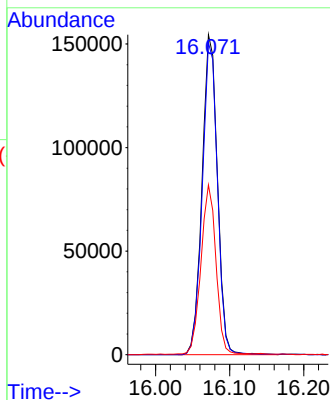
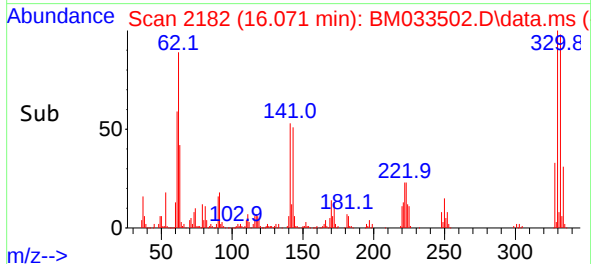
Instrument :
BNA_M
ClientSampleId :
MS-4



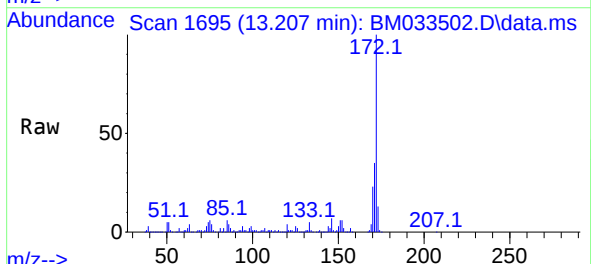
Tgt Ion:330 Resp: 22301
Ion Ratio Lower Upper
330 100
332 96.3 76.5 114.7
141 51.6 35.9 53.9

Manual Integrations
APPROVED

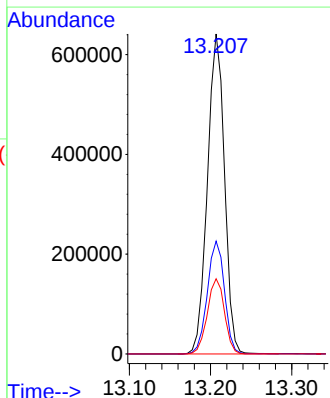
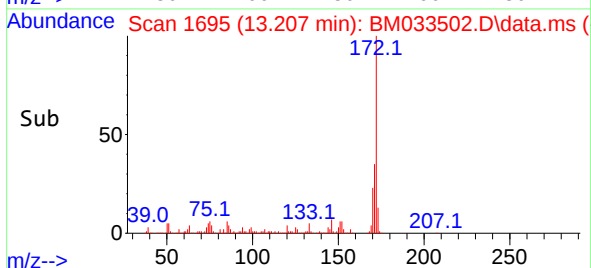
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

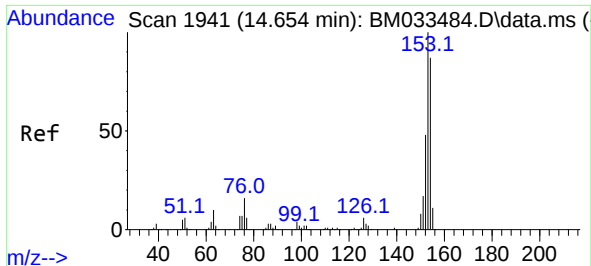


#45
2-Fluorobiphenyl
Concen: 88.194 ng
RT: 13.207 min Scan# 1695
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33



Tgt Ion:172 Resp: 935163
Ion Ratio Lower Upper
172 100
171 35.2 27.2 40.8
170 23.5 18.7 28.1





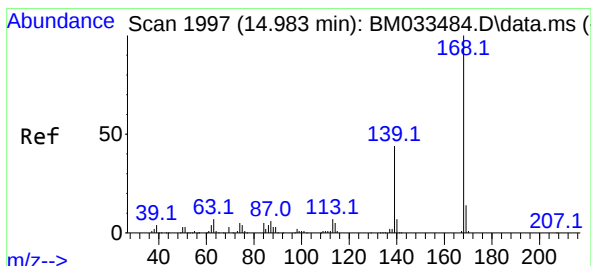
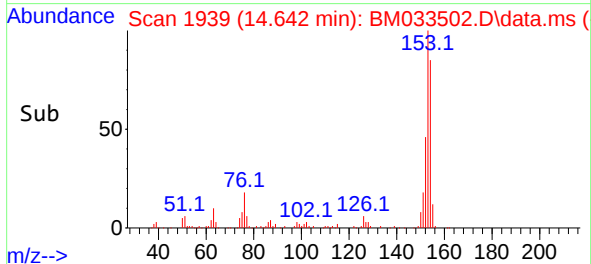
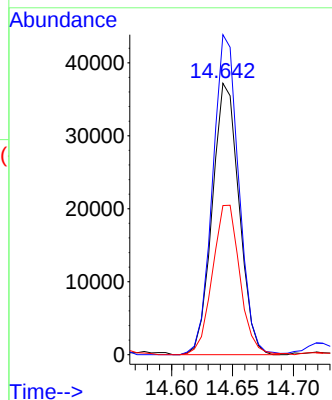
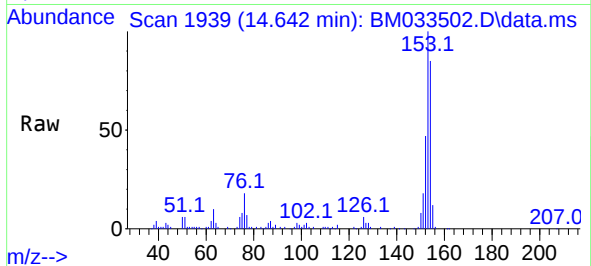
#52
Acenaphthene
Concen: 7.041 ng
RT: 14.642 min Scan# 1941
Delta R.T. -0.012 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Instrument :
BNA_M
ClientSampleId :
MS-4

Tgt Ion:154 Resp: 56878
Ion Ratio Lower Upper
154 100
153 117.9 90.2 135.4
152 55.0 43.5 65.3

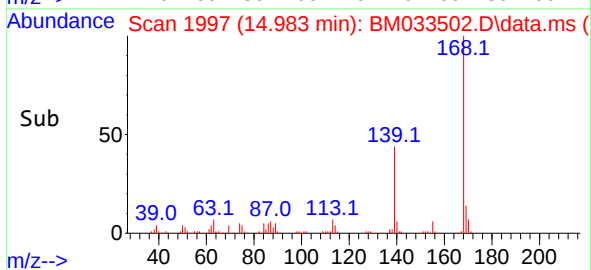
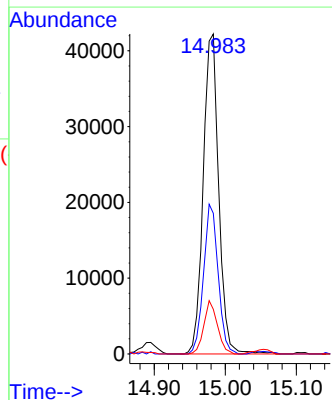
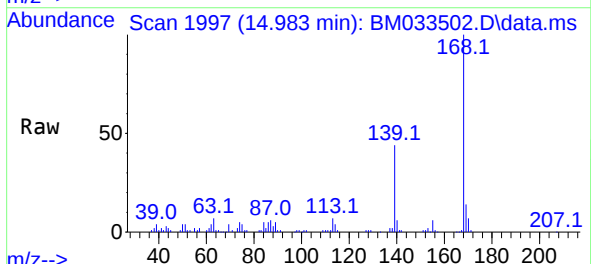
Manual Integrations
APPROVED

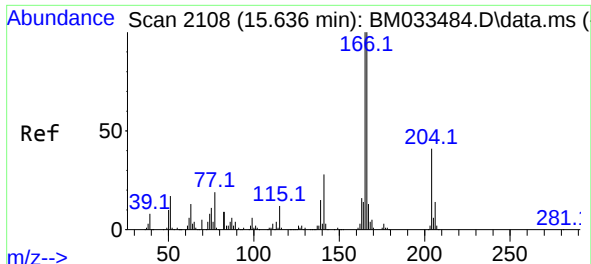
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021



#55
Dibenzofuran
Concen: 4.684 ng
RT: 14.983 min Scan# 1997
Delta R.T. -0.000 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

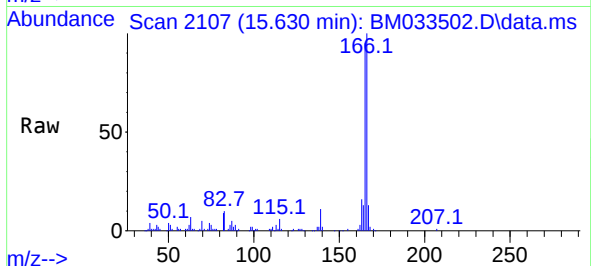
Tgt Ion:168 Resp: 64125
Ion Ratio Lower Upper
168 100
139 44.0 31.4 47.2
169 14.0 10.6 15.8





#58
Fluorene
Concen: 6.326 ng
RT: 15.630 min Scan# 2108
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

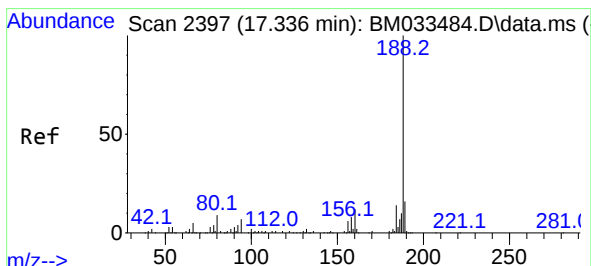
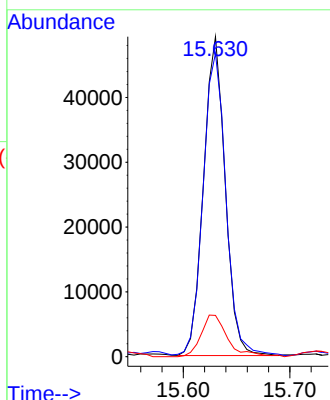
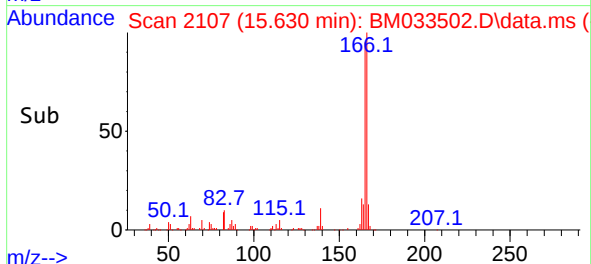
Instrument :
BNA_M
ClientSampleId :
MS-4



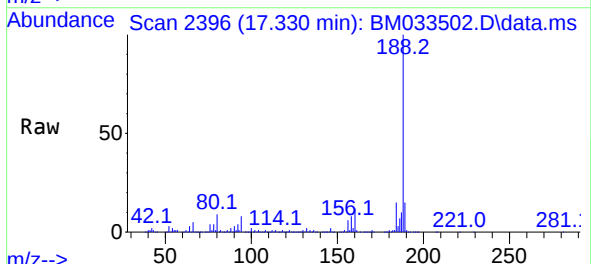
Tgt Ion:166 Resp: 69510
Ion Ratio Lower Upper
166 100
165 94.8 78.1 117.1
167 12.9 10.6 15.8

Manual Integrations
APPROVED

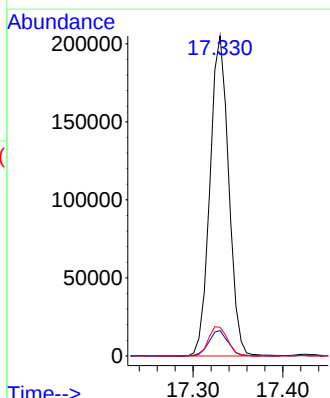
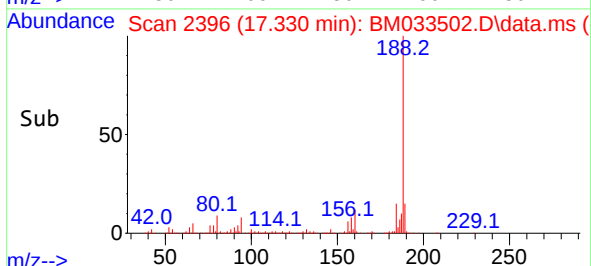
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

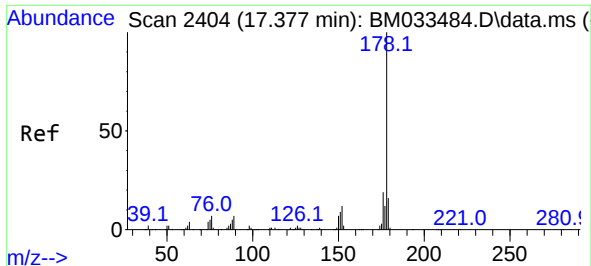


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.330 min Scan# 2396
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33



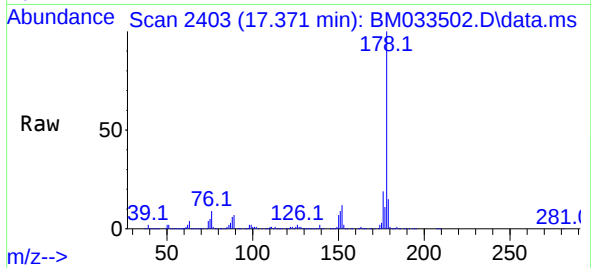
Tgt Ion:188 Resp: 297143
Ion Ratio Lower Upper
188 100
94 8.0 7.5 11.3
80 9.0 8.9 13.3





#71
Phenanthrene
Concen: 38.696 ng
RT: 17.371 min Scan# 2418
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

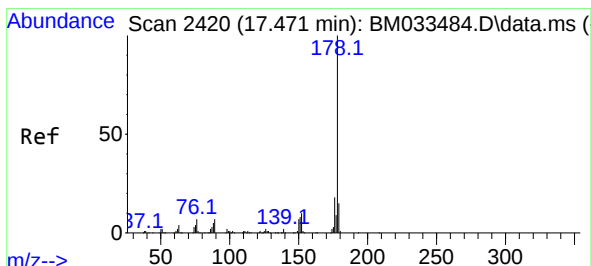
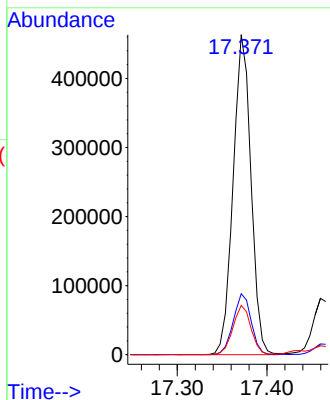
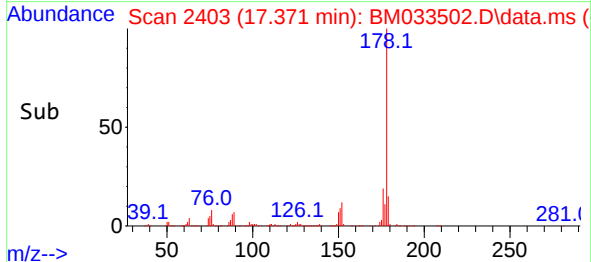
Instrument :
BNA_M
ClientSampleId :
MS-4



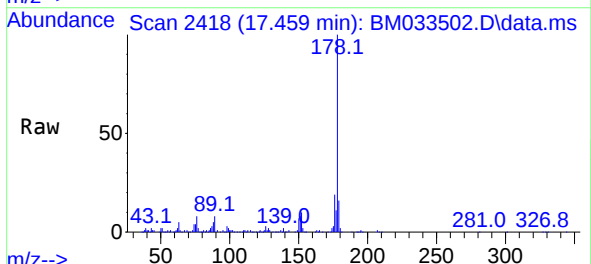
Tgt Ion:178 Resp: 63994
Ion Ratio Lower Upper
178 100
176 19.1 15.1 22.7
179 15.4 12.0 18.0

Manual Integrations
APPROVED

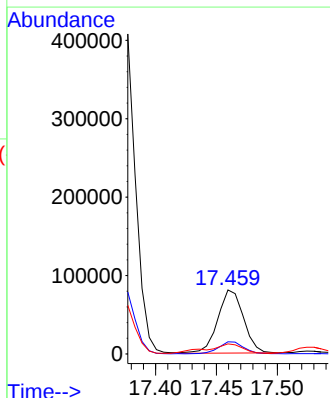
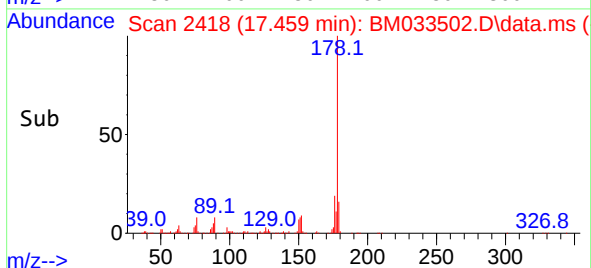
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

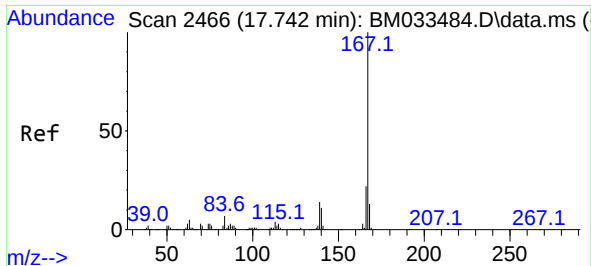


#72
Anthracene
Concen: 7.350 ng
RT: 17.459 min Scan# 2418
Delta R.T. -0.012 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33



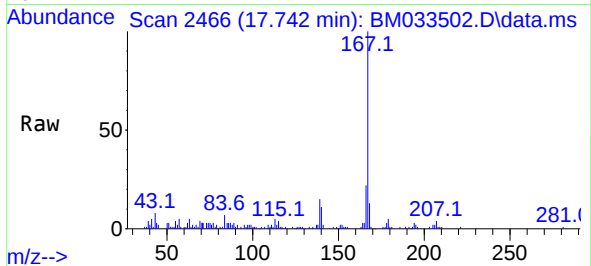
Tgt Ion:178 Resp: 118833
Ion Ratio Lower Upper
178 100
176 18.9 14.5 21.7
179 15.8 11.9 17.9





#73
 Carbazole
 Concen: 3.510 ng
 RT: 17.742 min Scan# 2466
 Delta R.T. -0.000 min
 Lab File: BM033502.D
 Acq: 17 Dec 2021 12:33

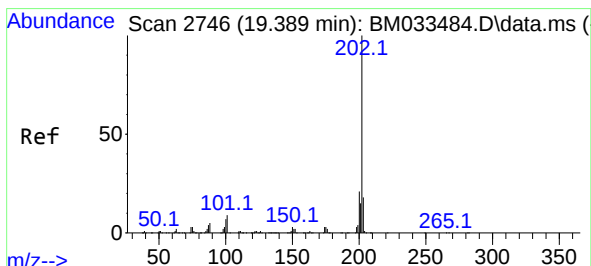
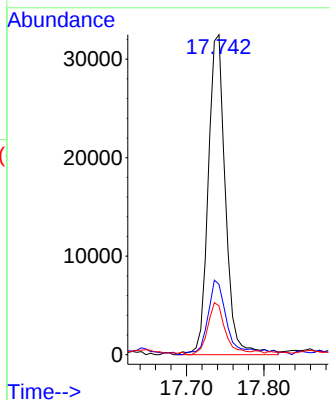
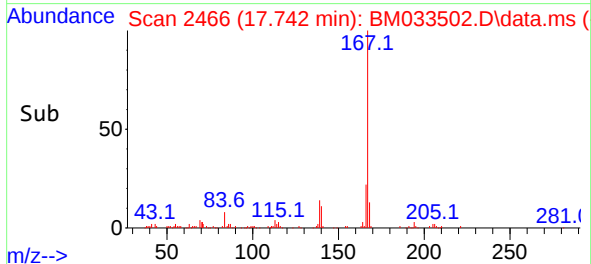
Instrument :
 BNA_M
 ClientSampleId :
 MS-4



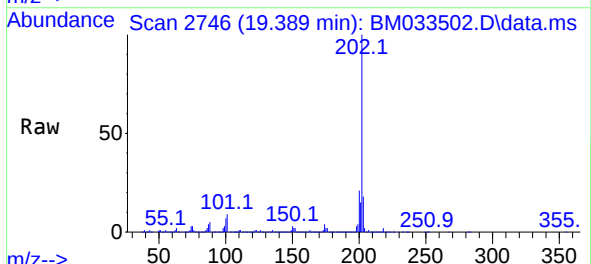
Tgt Ion:167 Resp: 50100
 Ion Ratio Lower Upper
 167 100
 166 21.9 17.2 25.8
 139 15.2 11.0 16.4

Manual Integrations
 APPROVED

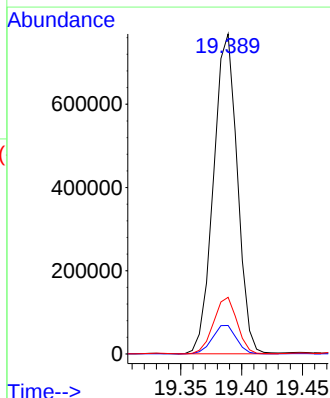
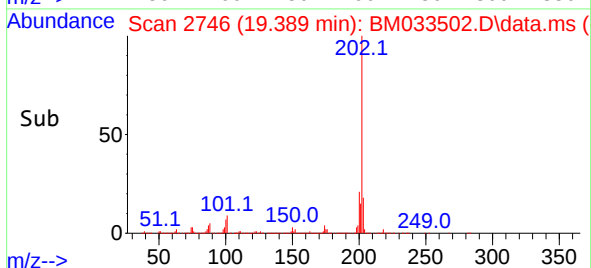
Reviewed By :Christian Giraldo 12/18/2021
 Supervised By :Jagrut Upadhyay 12/20/2021

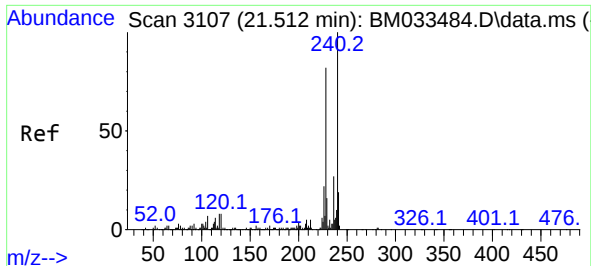


#75
 Fluoranthene
 Concen: 55.024 ng
 RT: 19.389 min Scan# 2746
 Delta R.T. -0.000 min
 Lab File: BM033502.D
 Acq: 17 Dec 2021 12:33



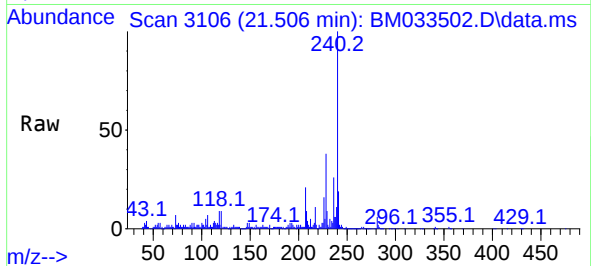
Tgt Ion:202 Resp: 1046795
 Ion Ratio Lower Upper
 202 100
 101 8.9 0.0 30.8
 203 17.7 0.0 37.2





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.506 min Scan# 3107
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

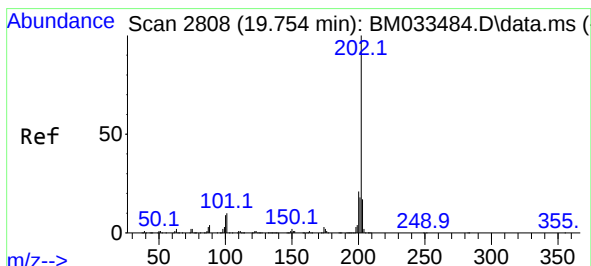
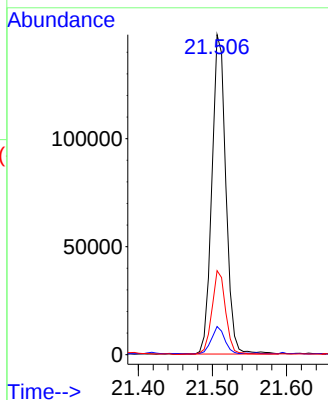
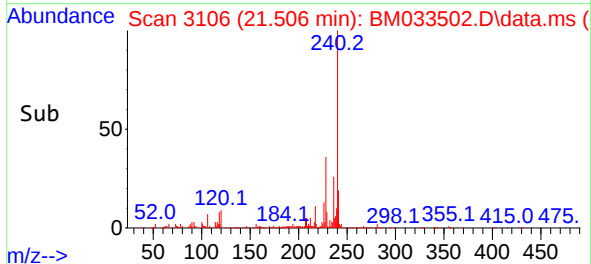
Instrument :
BNA_M
ClientSampleId :
MS-4



Tgt Ion:240 Resp: 193722
Ion Ratio Lower Upper
240 100
120 8.8 7.8 11.6
236 26.3 20.3 30.5

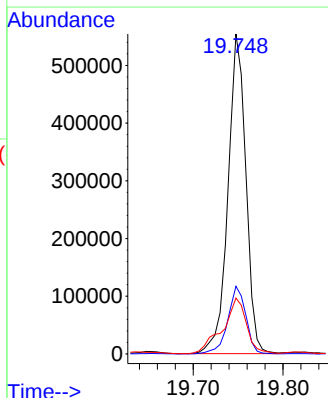
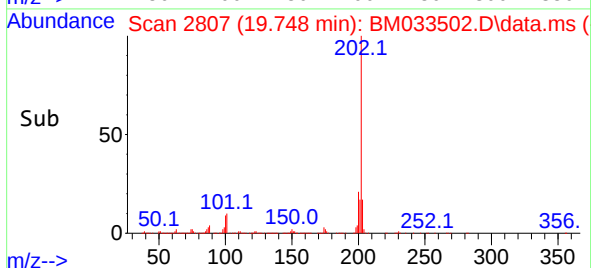
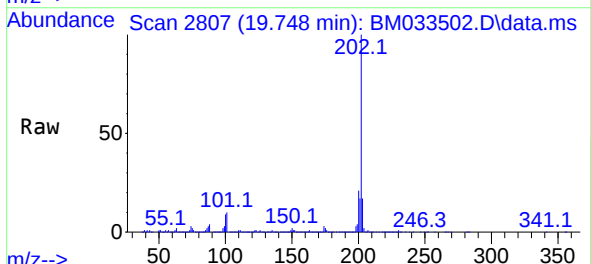
Manual Integrations
APPROVED

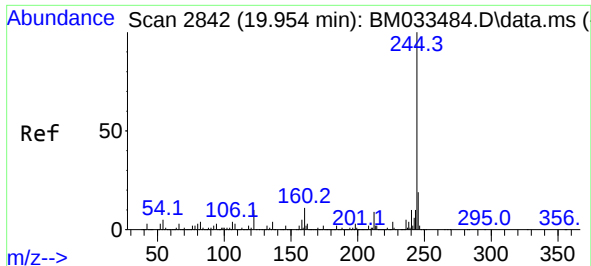
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021



#78
Pyrene
Concen: 50.196 ng
RT: 19.748 min Scan# 2807
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

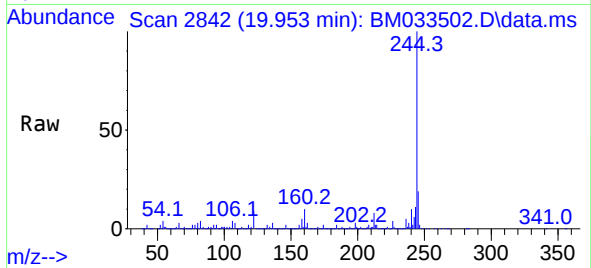
Tgt Ion:202 Resp: 767244
Ion Ratio Lower Upper
202 100
200 21.1 16.4 24.6
203 17.5 13.5 20.3





#79
 Terphenyl-d14
 Concen: 104.600 ng
 RT: 19.953 min Scan# 21
 Delta R.T. -0.001 min
 Lab File: BM033502.D
 Acq: 17 Dec 2021 12:33

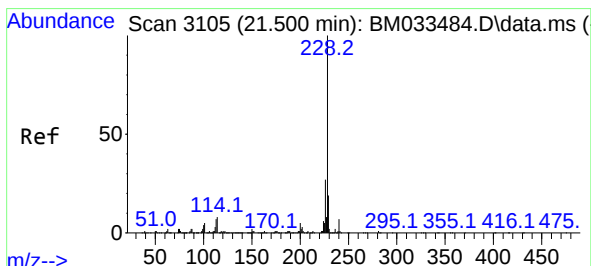
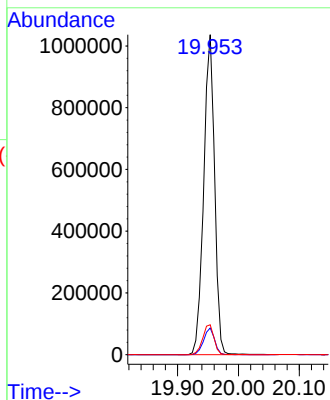
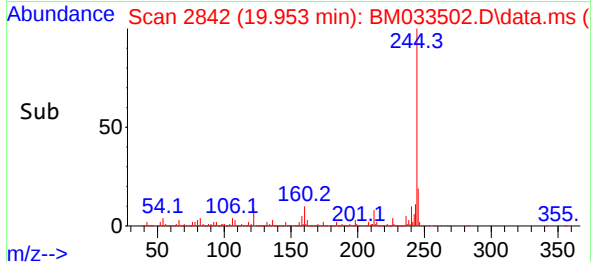
Instrument :
 BNA_M
 ClientSampleId :
 MS-4



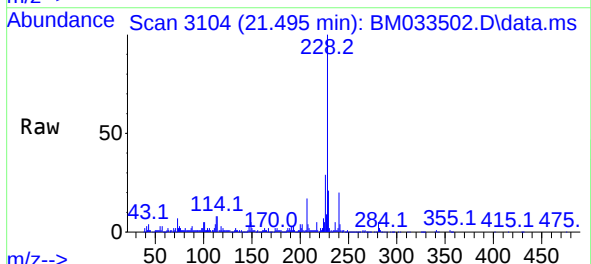
Tgt Ion:244 Resp: 128710
 Ion Ratio Lower Upper
 244 100
 212 8.4 5.9 8.9
 122 9.3 8.4 12.6

Manual Integrations
 APPROVED

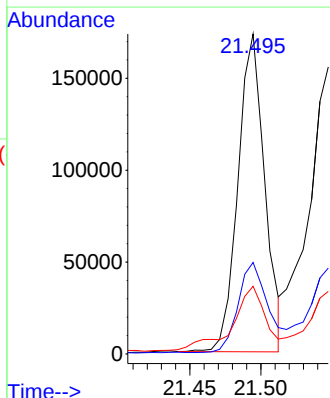
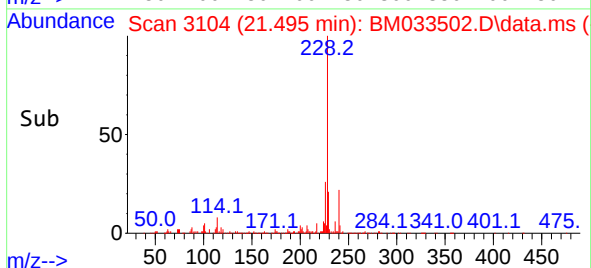
Reviewed By :Christian Giraldo 12/18/2021
 Supervised By :Jagrut Upadhyay 12/20/2021

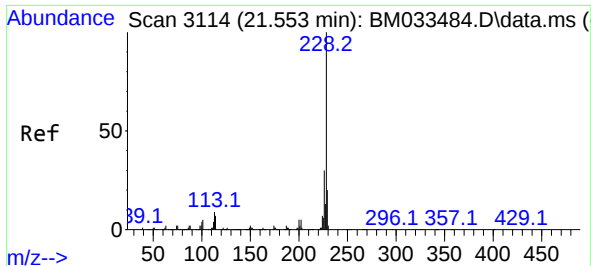


#81
 Benzo(a)anthracene
 Concen: 17.476 ng
 RT: 21.495 min Scan# 3104
 Delta R.T. -0.005 min
 Lab File: BM033502.D
 Acq: 17 Dec 2021 12:33



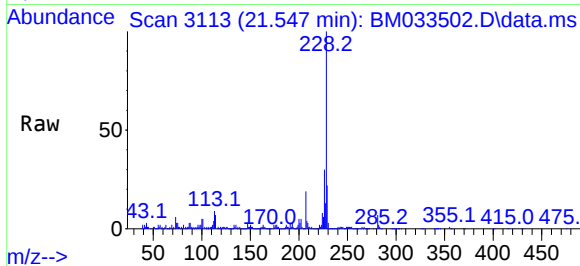
Tgt Ion:228 Resp: 226902
 Ion Ratio Lower Upper
 228 100
 226 28.6 21.0 31.6
 229 21.2 15.5 23.3





#83
Chrysene
Concen: 19.996 ng m
RT: 21.547 min Scan# 3114
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

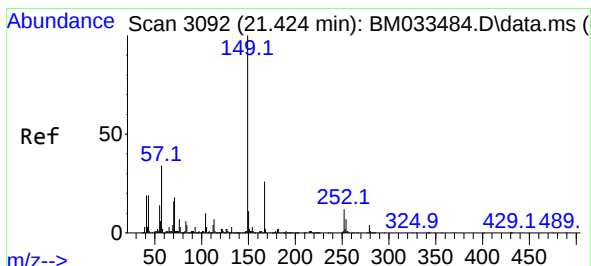
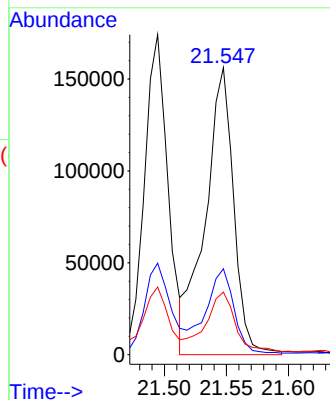
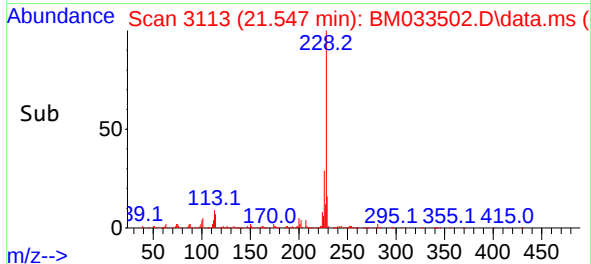
Instrument :
BNA_M
ClientSampleId :
MS-4



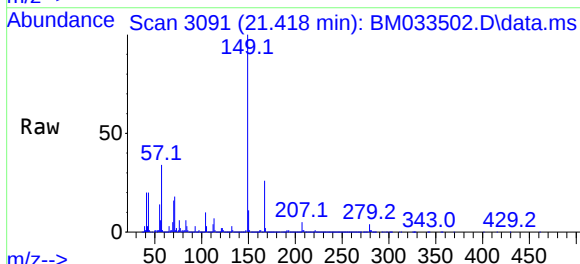
Tgt Ion:228 Resp: 24997
Ion Ratio Lower Upper
228 100
226 29.9 23.8 35.8
229 21.8 15.8 23.8

Manual Integrations
APPROVED

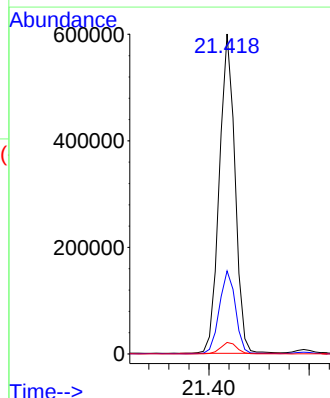
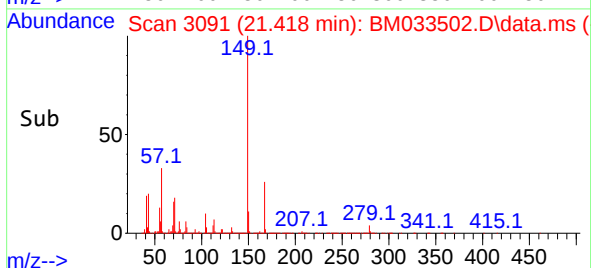
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

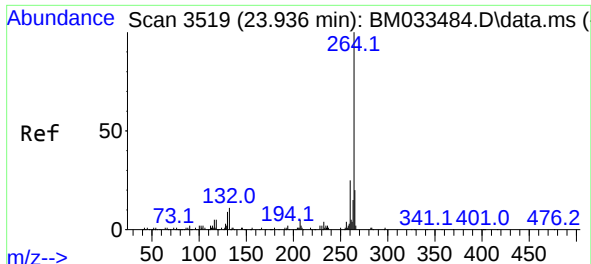


#84
Bis(2-ethylhexyl)phthalate
Concen: 64.691 ng
RT: 21.418 min Scan# 3091
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33



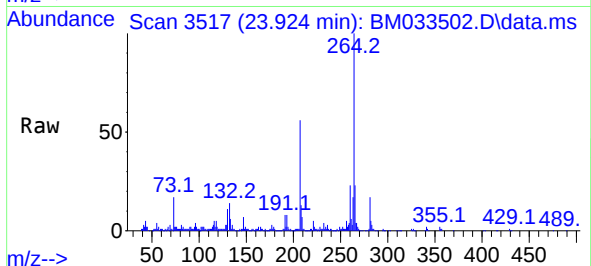
Tgt Ion:149 Resp: 648612
Ion Ratio Lower Upper
149 100
167 25.9 21.4 32.0
279 3.6 3.0 4.6





#86
Perylene-d12
Concen: 20.000 ng
RT: 23.924 min Scan# 31
Delta R.T. -0.012 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

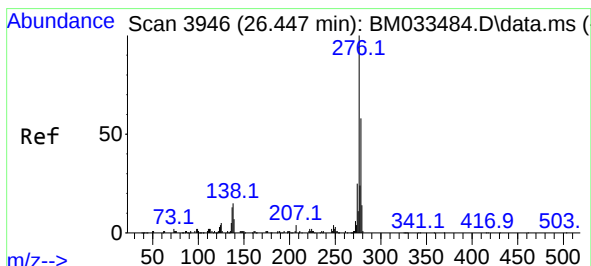
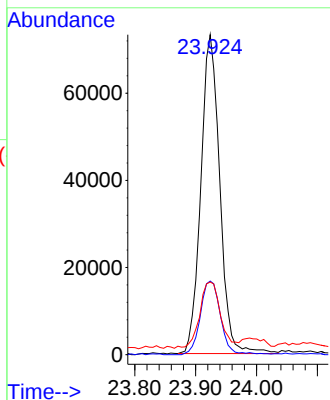
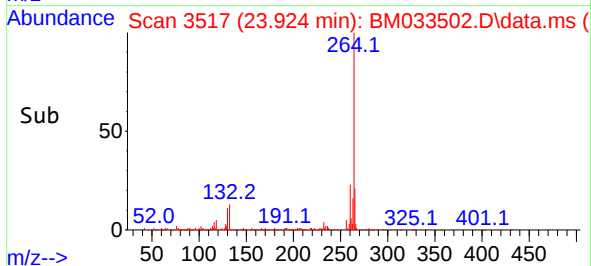
Instrument :
BNA_M
ClientSampleId :
MS-4



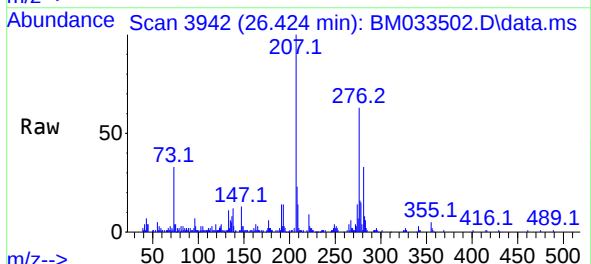
Tgt Ion:264 Resp: 15844
Ion Ratio Lower Upper
264 100
260 23.0 17.7 26.5
265 22.7 17.7 26.5

Manual Integrations
APPROVED

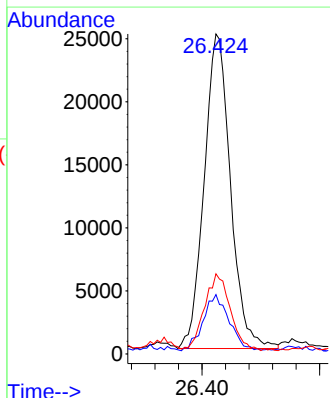
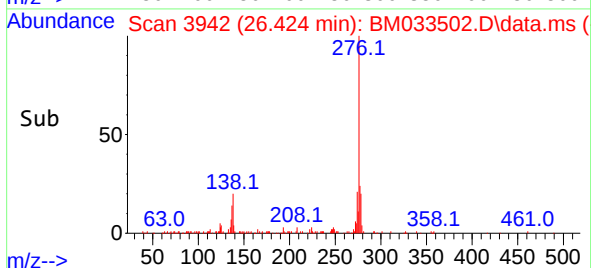
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

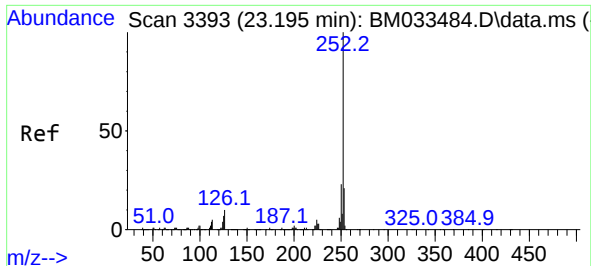


#87
Indeno(1,2,3-cd)pyrene
Concen: 10.624 ng
RT: 26.424 min Scan# 3942
Delta R.T. -0.023 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33



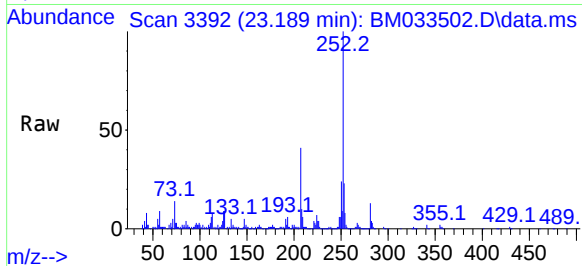
Tgt Ion:276 Resp: 77611
Ion Ratio Lower Upper
276 100
138 17.7 18.7 28.1#
277 23.9 20.2 30.4





#88
Benzo(b)fluoranthene
Concen: 24.192 ng m
RT: 23.189 min Scan# 31
Delta R.T. -0.006 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

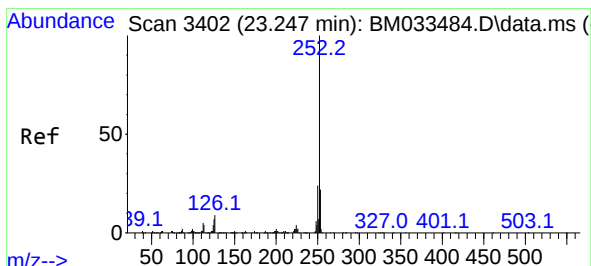
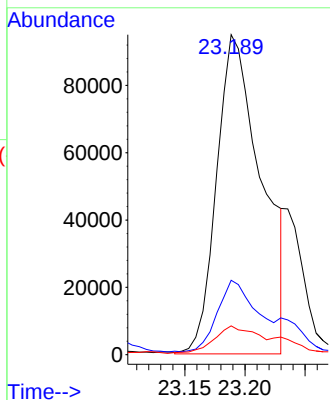
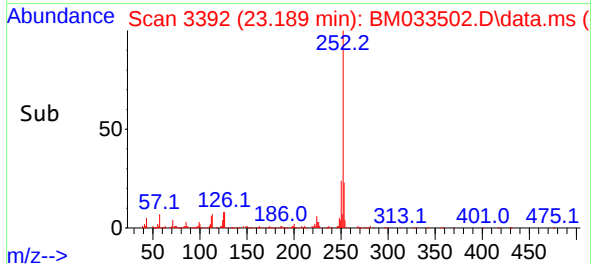
Instrument :
BNA_M
ClientSampleId :
MS-4



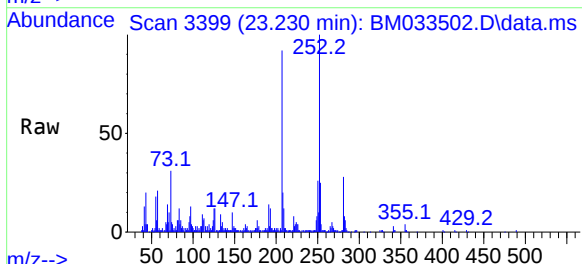
Tgt Ion:252 Resp: 24580
Ion Ratio Lower Upper
252 100
253 23.3 17.1 25.7
125 9.0 7.4 11.2

Manual Integrations
APPROVED

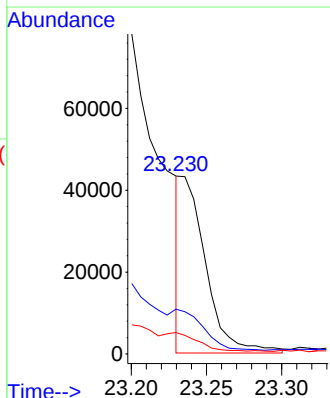
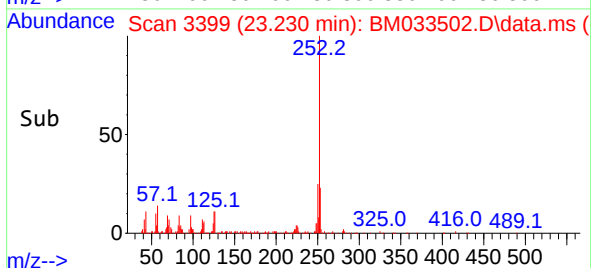
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

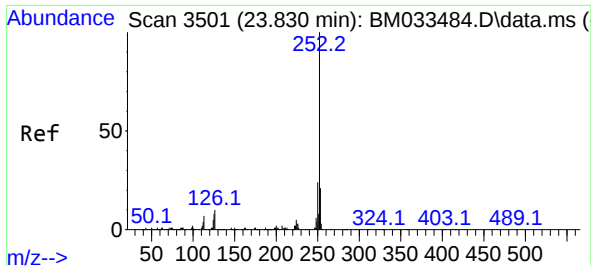


#89
Benzo(k)fluoranthene
Concen: 4.832 ng m
RT: 23.230 min Scan# 3399
Delta R.T. -0.017 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33



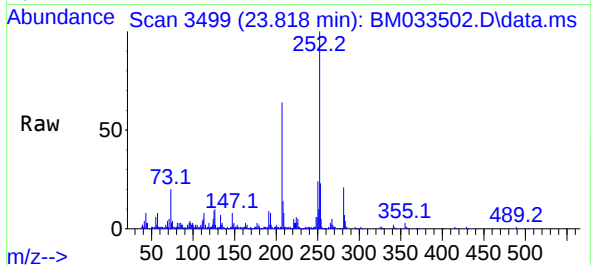
Tgt Ion:252 Resp: 49662
Ion Ratio Lower Upper
252 100
253 25.2 17.8 26.8
125 12.0 8.1 12.1





#90
Benzo(a)pyrene
Concen: 16.581 ng
RT: 23.818 min Scan# 34
Delta R.T. -0.012 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

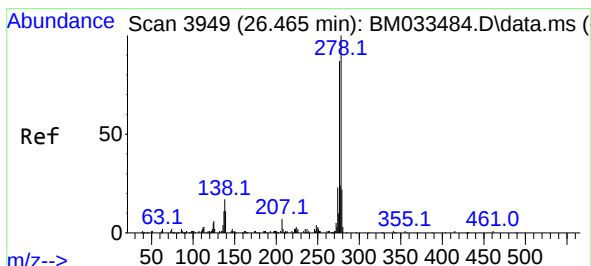
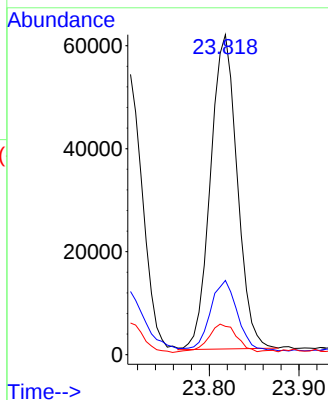
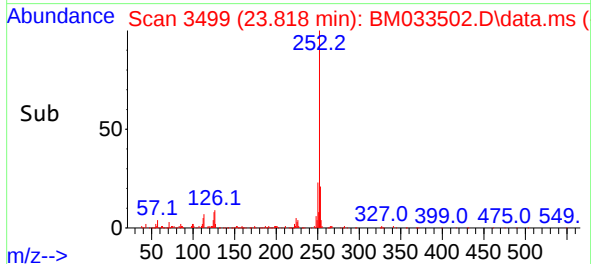
Instrument :
BNA_M
ClientSampleId :
MS-4



Tgt Ion:252 Resp: 12607
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 8.8 7.8 11.8

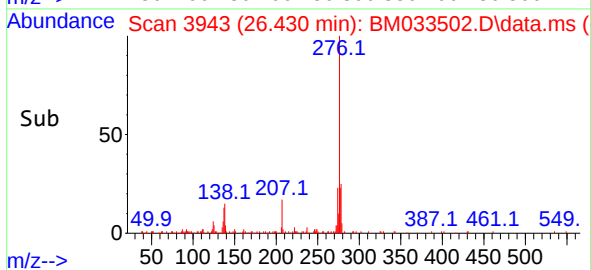
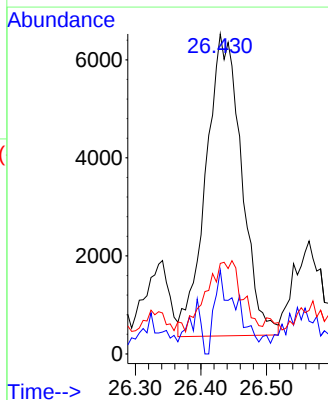
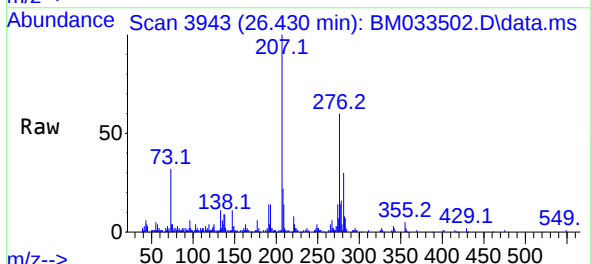
Manual Integrations
APPROVED

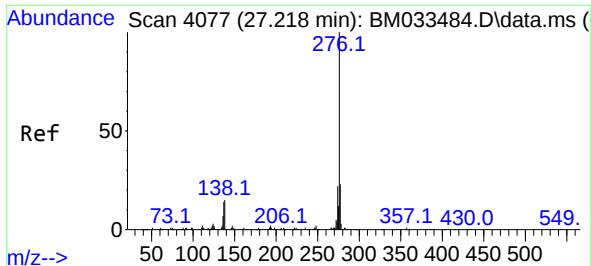
Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021



#91
Dibenzo(a,h)anthracene
Concen: 4.236 ng
RT: 26.430 min Scan# 3943
Delta R.T. -0.035 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

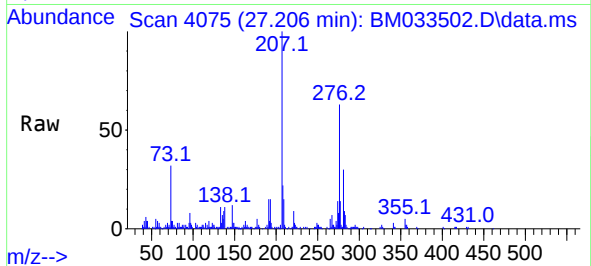
Tgt Ion:278 Resp: 23209
Ion Ratio Lower Upper
278 100
139 29.2 10.9 16.3#
279 28.3 17.7 26.5#





#92
Benzo(g,h,i)perylene
Concen: 11.603 ng
RT: 27.206 min Scan# 4075
Delta R.T. -0.012 min
Lab File: BM033502.D
Acq: 17 Dec 2021 12:33

Instrument :
BNA_M
ClientSampleId :
MS-4



Tgt Ion:276 Resp: 8175
Ion Ratio Lower Upper
276 100
277 21.7 19.1 28.7
138 18.0 14.8 22.2

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 12/18/2021
Supervised By :Jagrut Upadhyay 12/20/2021

