

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040122\
 Data File : BP009667.D
 Acq On : 01 Apr 2022 20:19
 Operator : CG/JU
 Sample : N2220-14
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 A06015

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 04/04/2022
 Supervised By : Jagrut Upadhyay 04/04/2022

Quant Time: Apr 01 22:45:46 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031722.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 31 04:36:51 2022
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.728	152	236629	20.000	ng	-0.01
21) Naphthalene-d8	10.516	136	930439	20.000	ng	-0.02
39) Acenaphthene-d10	14.375	164	565284	20.000	ng	-0.02
64) Phenanthrene-d10	17.145	188	1187465	20.000	ng	-0.01
76) Chrysene-d12	21.263	240	1212730	20.000	ng	-0.01
86) Perylene-d12	23.639	264	1326806	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.334	112	1442550	106.436	ng	-0.01
7) Phenol-d6	6.922	99	1825166	99.580	ng	-0.01
23) Nitrobenzene-d5	8.887	82	1214916	69.388	ng	-0.01
42) 2,4,6-Tribromophenol	15.881	330	721945	77.394	ng	-0.01
45) 2-Fluorobiphenyl	12.998	172	2695101	66.094	ng	-0.01
79) Terphenyl-d14	19.727	244	4080791	60.397	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	10.569	128	117259	2.447	ng	98
49) Acenaphthylene	14.098	152	116788	2.279	ng	99
52) Acenaphthene	14.439	154	81199	2.652	ng	98
55) Dibenzofuran	14.781	168	112258	2.182	ng	99
58) Fluorene	15.434	166	147553	3.648	ng	99
71) Phenanthrene	17.186	178	2087974	32.848	ng	99
72) Anthracene	17.280	178	399880	6.372	ng	99
73) Carbazole	17.557	167	261586	4.262	ng	99
75) Fluoranthene	19.169	202	3124295	40.599	ng	100
78) Pyrene	19.527	202	2505772	31.356	ng	99
81) Benzo(a)anthracene	21.251	228	1557014	19.542	ng	98
83) Chrysene	21.298	228	1481737m	19.640	ng	
87) Indeno(1,2,3-cd)pyrene	26.109	276	958983	9.527	ng	# 94
88) Benzo(b)fluoranthene	22.921	252	2062922m	26.045	ng	
89) Benzo(k)fluoranthene	22.957	252	642666m	8.287	ng	
90) Benzo(a)pyrene	23.533	252	1347230	19.880	ng	98
91) Dibenzo(a,h)anthracene	26.115	278	291233m	3.471	ng	
92) Benzo(g,h,i)perylene	26.868	276	880171	10.665	ng	95

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

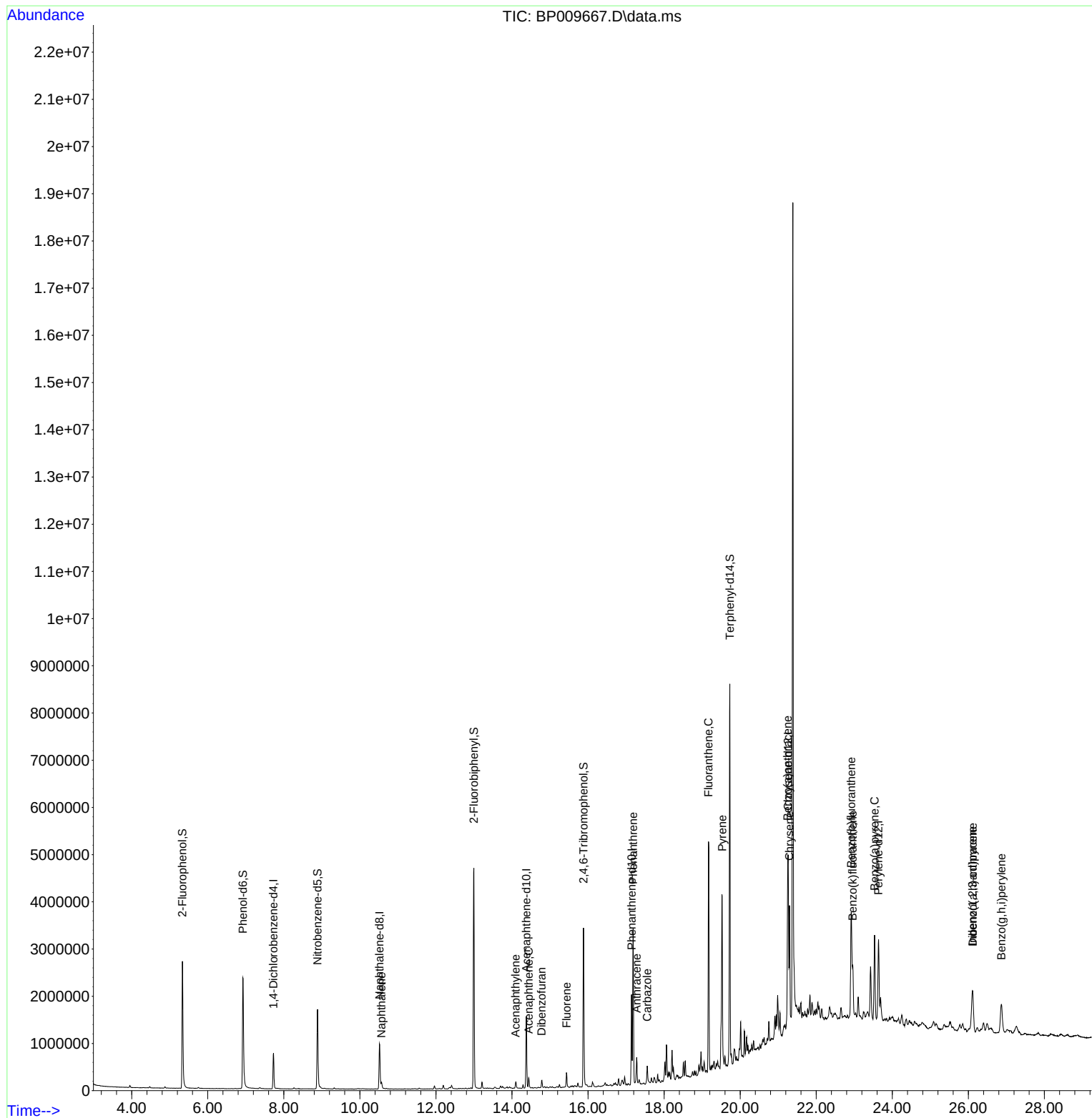
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP040122\
Data File : BP009667.D
Acq On : 01 Apr 2022 20:19
Operator : CG/JU
Sample : N2220-14
Misc :
ALS Vial : 17 Sample Multiplier: 1

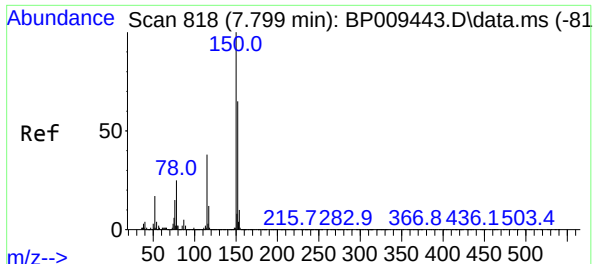
Instrument :
BNA_P
ClientSampleId :
A06015

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 04/04/2022
Supervised By : Jagrut Upadhyay 04/04/2022

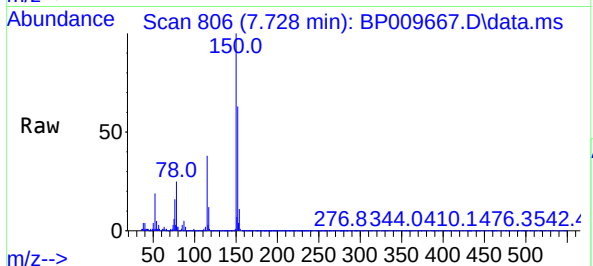
Quant Time: Apr 01 22:45:46 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP031722.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Mar 31 04:36:51 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.728 min Scan# 80
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

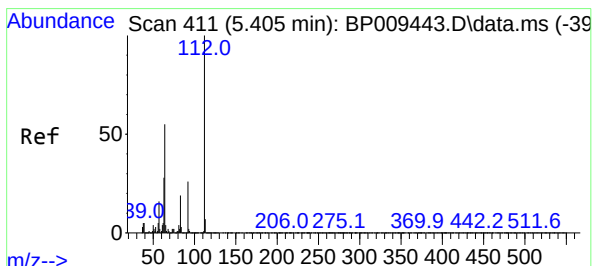
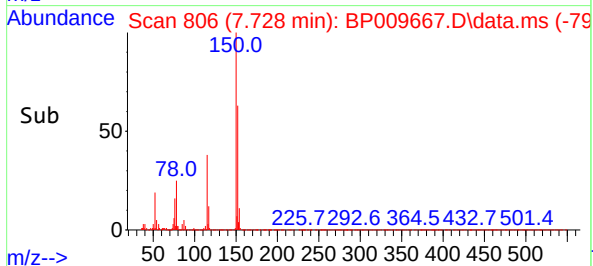
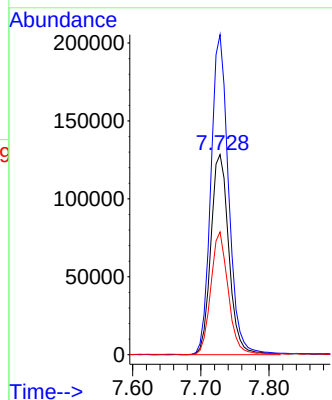
Instrument :
BNA_P
Client Sample Id :
A06015



Tgt Ion:152 Resp: 236629
Ion Ratio Lower Upper
152 100
150 159.8 124.5 186.7
115 61.3 48.2 72.4

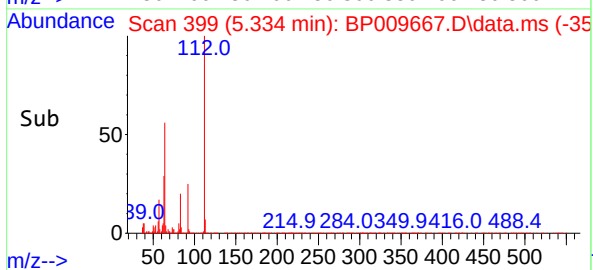
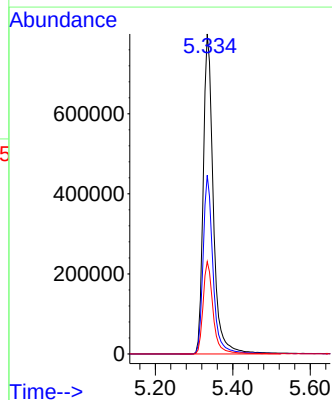
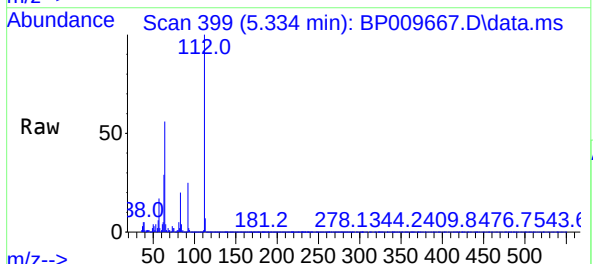
Manual Integrations
APPROVED

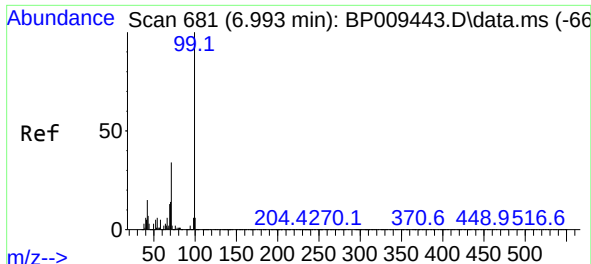
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022



#5
2-Fluorophenol
Concen: 106.436 ng
RT: 5.334 min Scan# 399
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Tgt Ion:112 Resp: 1442550
Ion Ratio Lower Upper
112 100
64 55.8 45.0 67.4
63 28.9 23.0 34.6





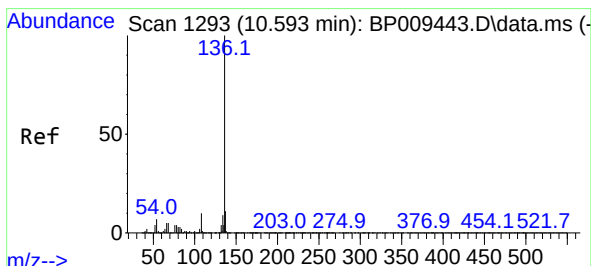
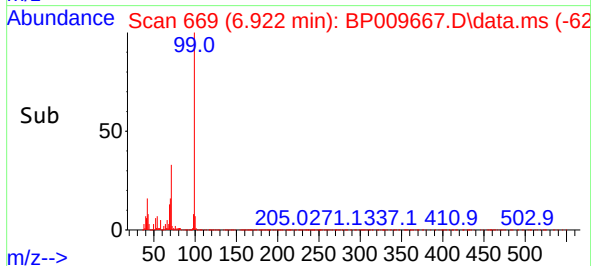
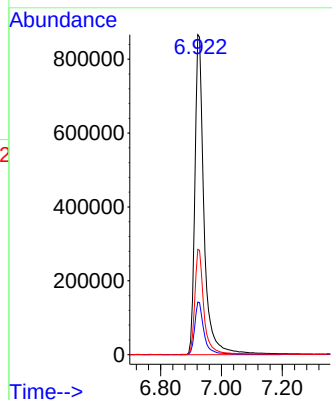
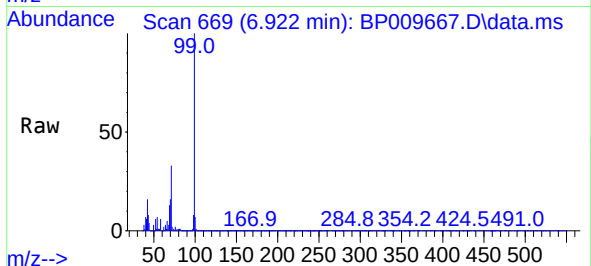
#7
Phenol-d6
Concen: 99.580 ng
RT: 6.922 min Scan# 60
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Instrument :
BNA_P
ClientSampleId :
A06015

Tgt Ion: 99 Resp: 182516
Ion Ratio Lower Upper
99 100
42 16.5 12.8 19.2
71 32.9 26.3 39.5

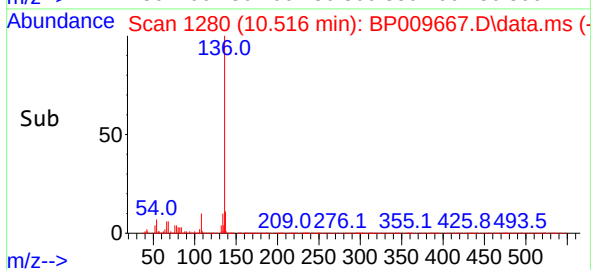
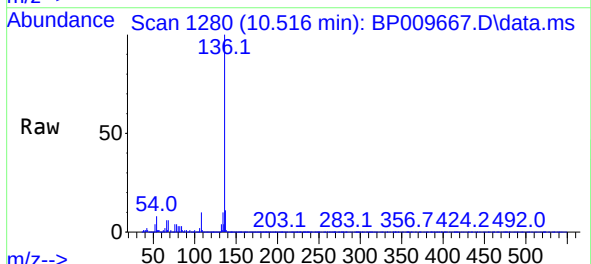
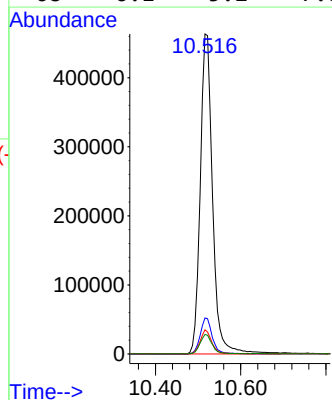
Manual Integrations
APPROVED

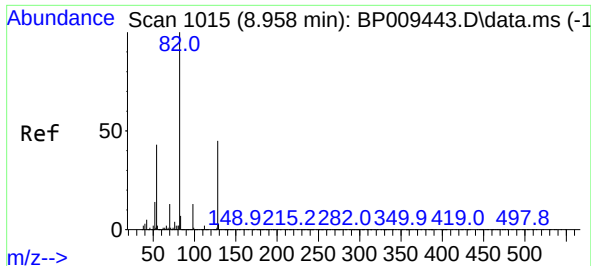
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.516 min Scan# 1280
Delta R.T. -0.018 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

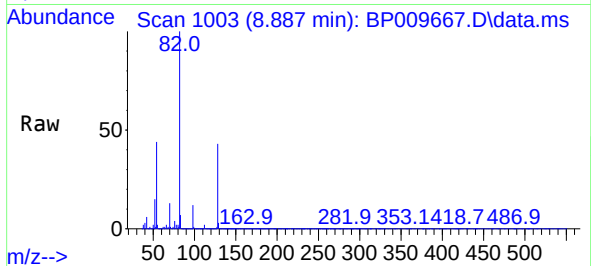
Tgt Ion:136 Resp: 930439
Ion Ratio Lower Upper
136 100
137 11.2 8.6 12.8
54 7.6 5.8 8.8
68 6.1 5.2 7.8





#23
Nitrobenzene-d5
Concen: 69.388 ng
RT: 8.887 min Scan# 1003
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

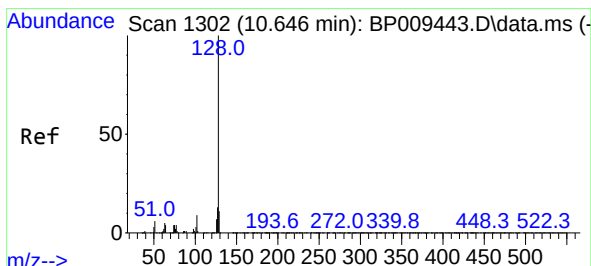
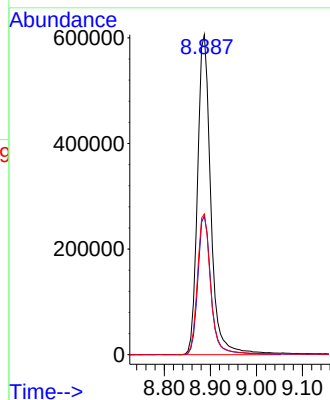
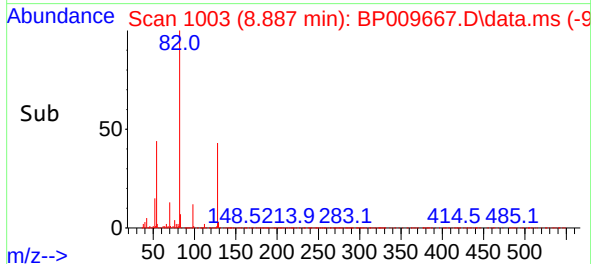
Instrument :
BNA_P
ClientSampleId :
A06015



Tgt Ion: 82 Resp: 1214910
Ion Ratio Lower Upper
82 100
128 43.4 34.2 51.4
54 44.0 34.7 52.1

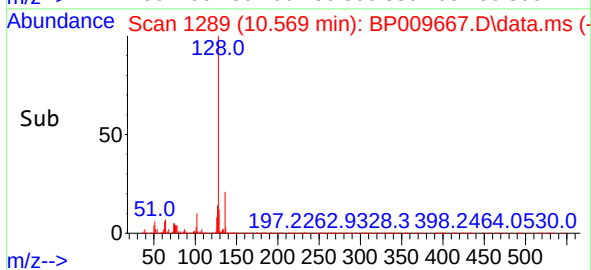
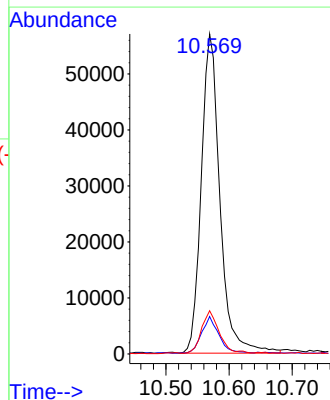
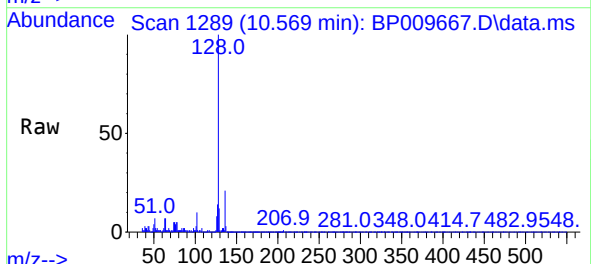
Manual Integrations
APPROVED

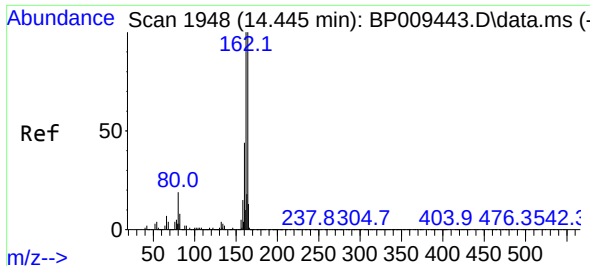
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022



#31
Naphthalene
Concen: 2.447 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

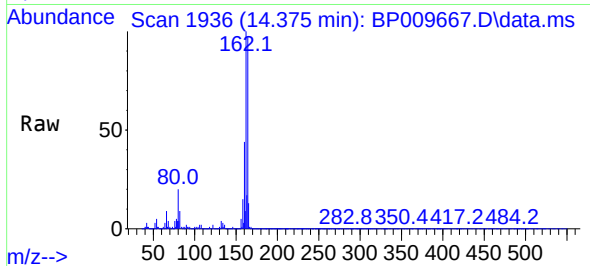
Tgt Ion:128 Resp: 117259
Ion Ratio Lower Upper
128 100
129 11.7 8.6 13.0
127 13.5 10.5 15.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.375 min Scan# 1936
Delta R.T. -0.018 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

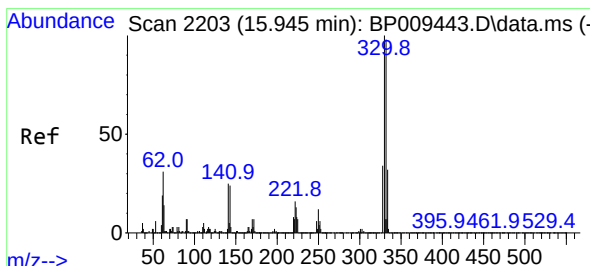
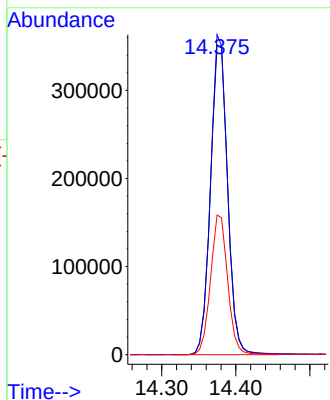
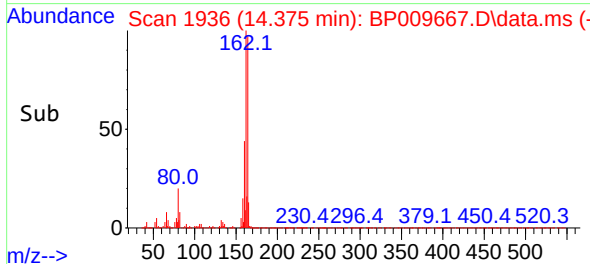
Instrument :
BNA_P
ClientSampleId :
A06015



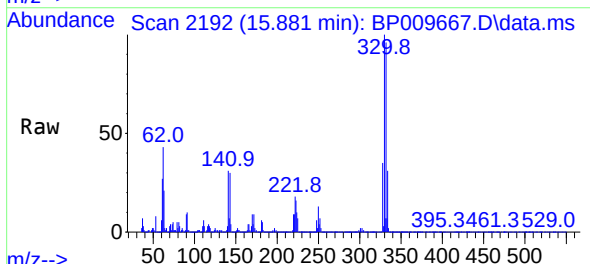
Tgt Ion:164 Resp: 565284
Ion Ratio Lower Upper
164 100
162 103.3 79.1 118.7
160 45.1 34.9 52.3

Manual Integrations
APPROVED

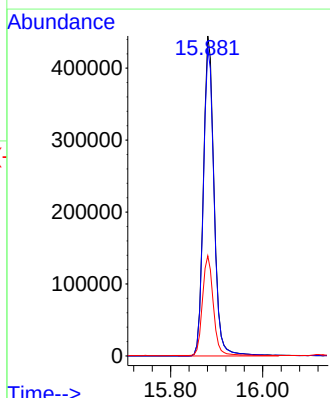
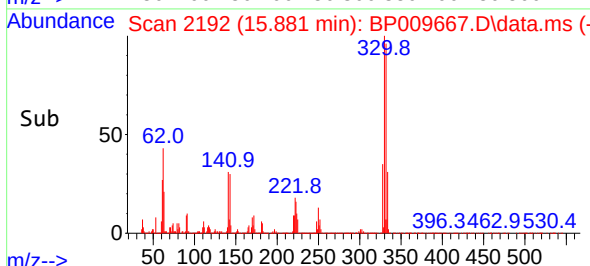
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022

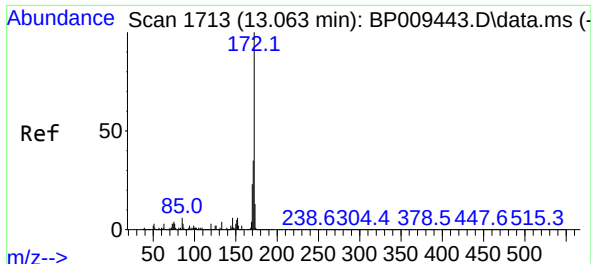


#42
2,4,6-Tribromophenol
Concen: 77.394 ng
RT: 15.881 min Scan# 2192
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19



Tgt Ion:330 Resp: 721945
Ion Ratio Lower Upper
330 100
332 97.2 77.0 115.6
141 31.5 27.6 41.4





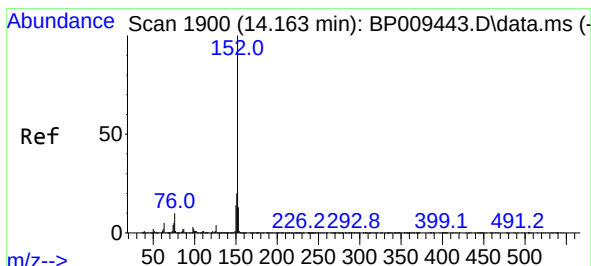
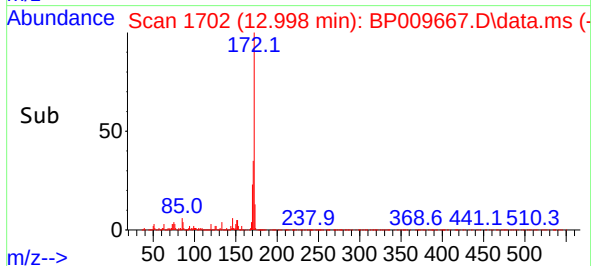
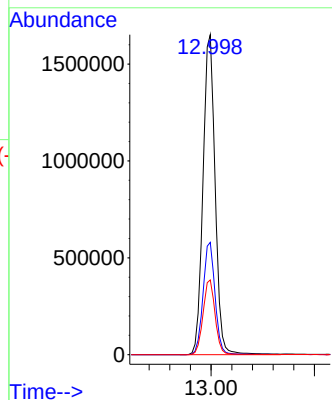
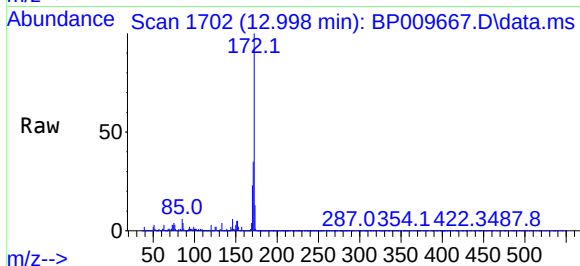
#45
2-Fluorobiphenyl
Concen: 66.094 ng
RT: 12.998 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Instrument :
BNA_P
ClientSampleId :
A06015

Tgt Ion:172 Resp: 269510
Ion Ratio Lower Upper
172 100
171 35.1 28.0 42.0
170 23.3 18.6 27.8

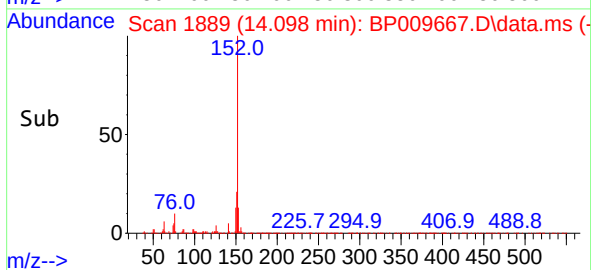
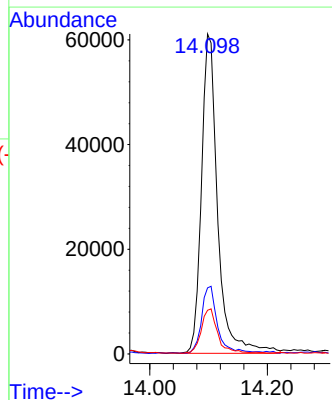
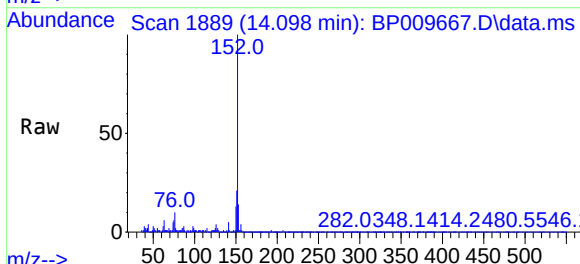
Manual Integrations
APPROVED

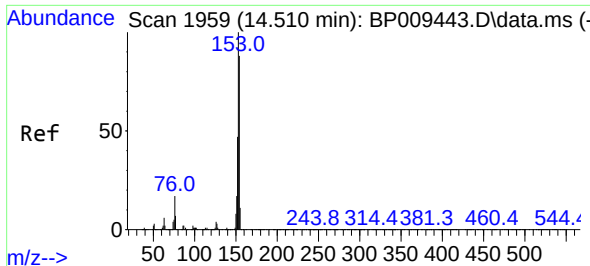
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022



#49
Acenaphthylene
Concen: 2.279 ng
RT: 14.098 min Scan# 1889
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

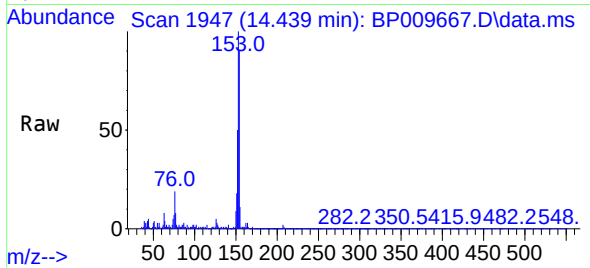
Tgt Ion:152 Resp: 116788
Ion Ratio Lower Upper
152 100
151 20.7 15.9 23.9
153 13.6 10.7 16.1





#52
Acenaphthene
Concen: 2.652 ng
RT: 14.439 min Scan# 1959
Delta R.T. -0.018 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

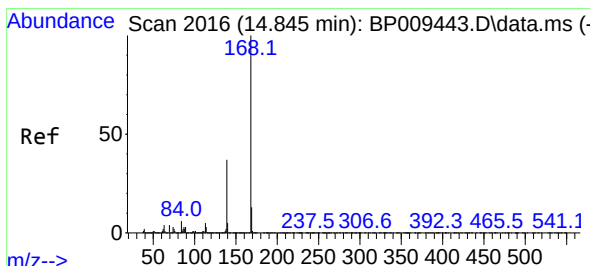
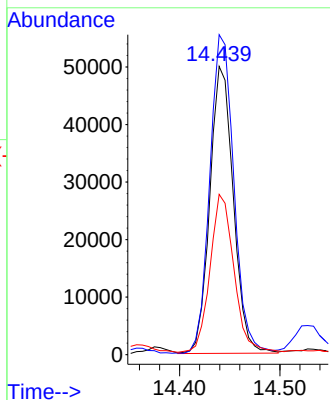
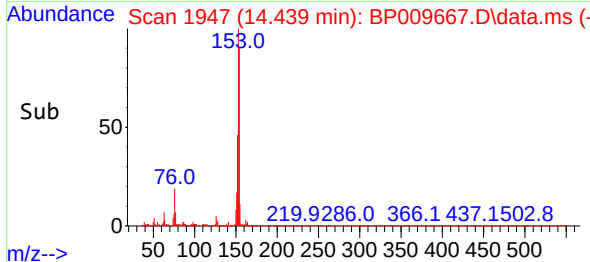
Instrument :
BNA_P
ClientSampleId :
A06015



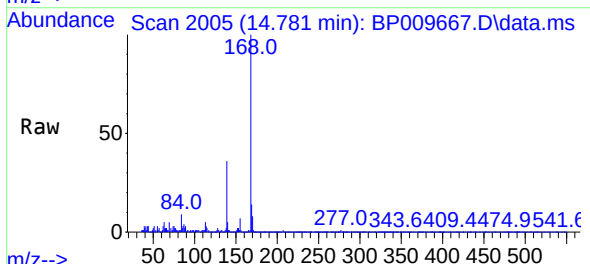
Tgt Ion:154 Resp: 81199
Ion Ratio Lower Upper
154 100
153 111.0 90.2 135.4
152 55.6 42.7 64.1

Manual Integrations
APPROVED

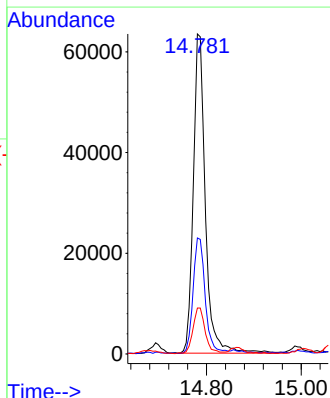
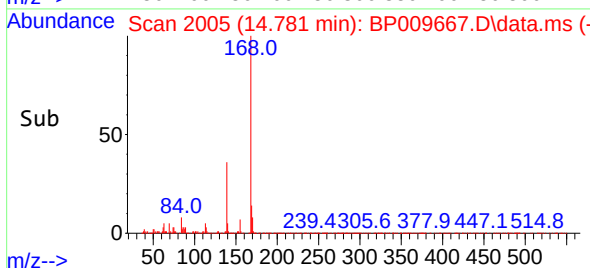
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022

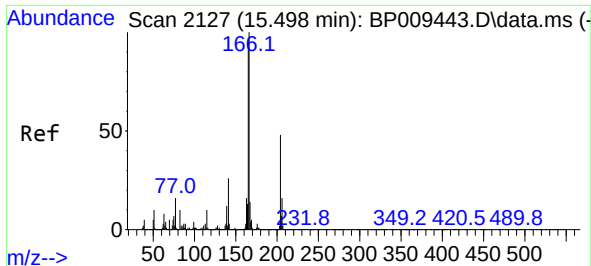


#55
Dibenzofuran
Concen: 2.182 ng
RT: 14.781 min Scan# 2005
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19



Tgt Ion:168 Resp: 112258
Ion Ratio Lower Upper
168 100
139 36.2 29.1 43.7
169 14.4 10.6 16.0





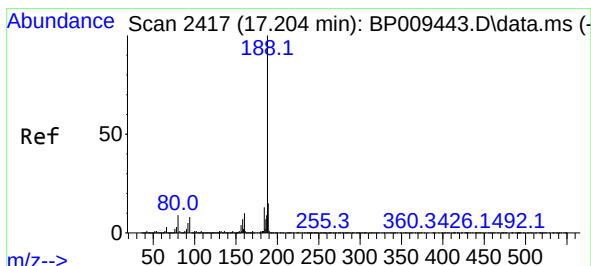
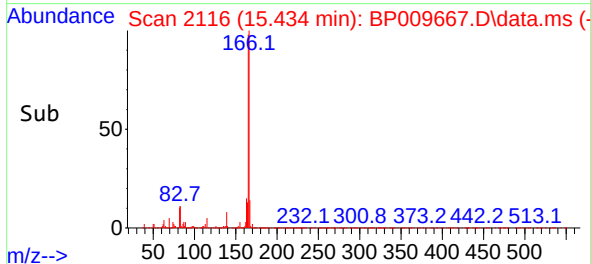
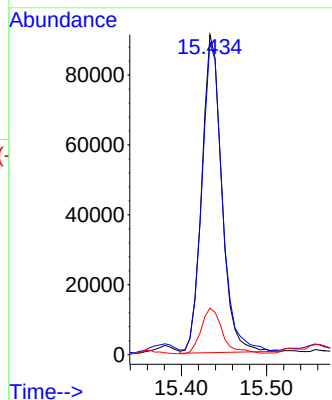
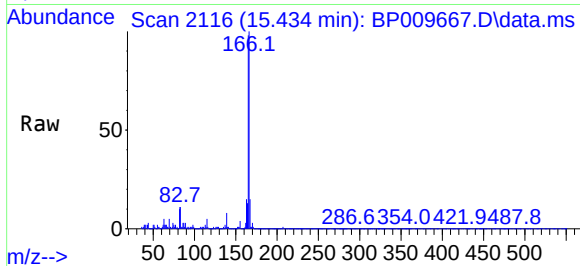
#58
Fluorene
Concen: 3.648 ng
RT: 15.434 min Scan# 2116
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Instrument :
BNA_P
ClientSampleId :
A06015

Tgt Ion:166 Resp: 14755
Ion Ratio Lower Upper
166 100
165 97.7 79.2 118.8
167 14.5 10.7 16.1

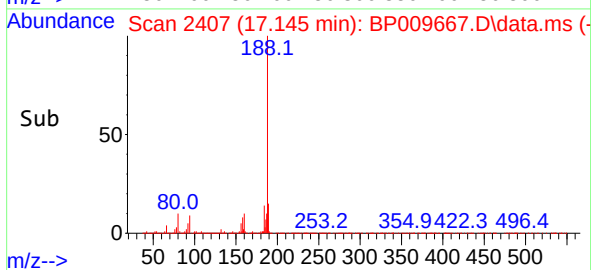
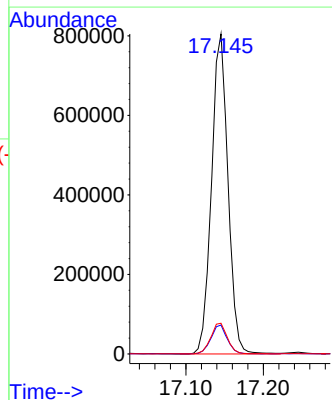
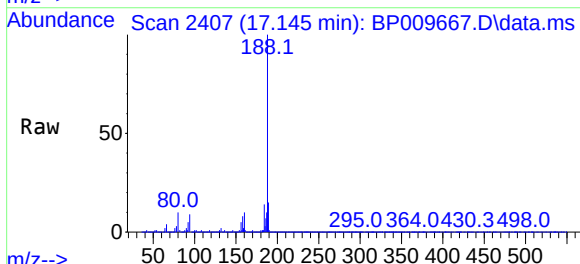
Manual Integrations
APPROVED

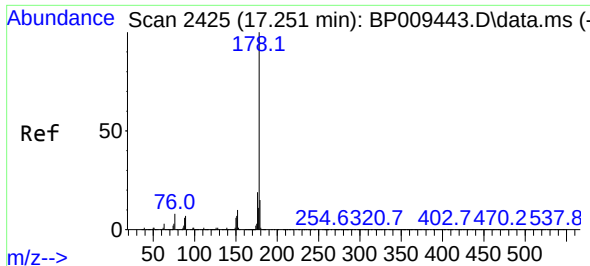
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2407
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

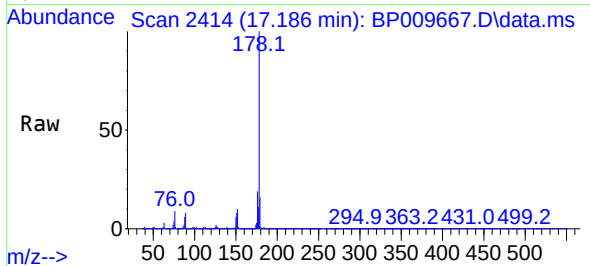
Tgt Ion:188 Resp: 1187465
Ion Ratio Lower Upper
188 100
94 9.0 7.9 11.9
80 9.6 8.8 13.2





#71
Phenanthrene
Concen: 32.848 ng
RT: 17.186 min Scan# 2425
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

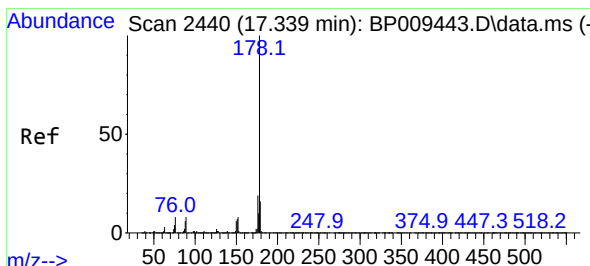
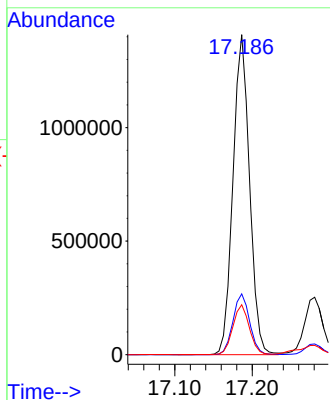
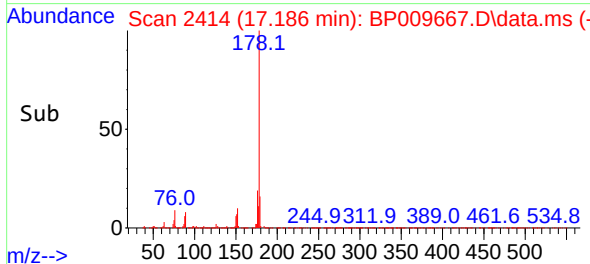
Instrument :
BNA_P
ClientSampleId :
A06015



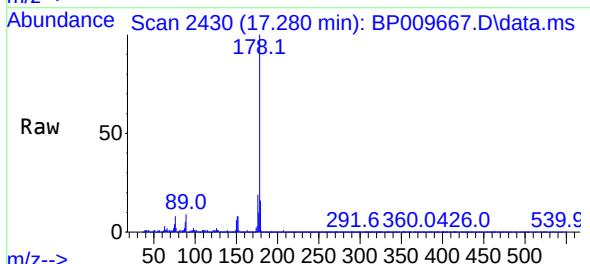
Tgt Ion:178 Resp: 2087974
Ion Ratio Lower Upper
178 100
176 19.0 15.4 23.2
179 15.6 12.3 18.5

Manual Integrations
APPROVED

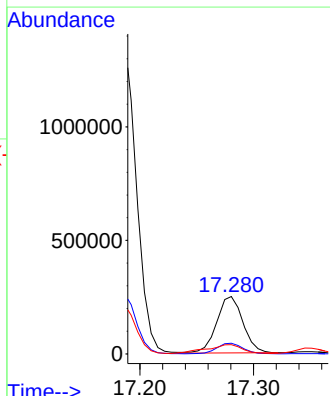
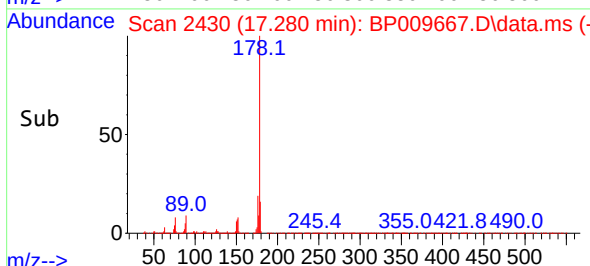
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022

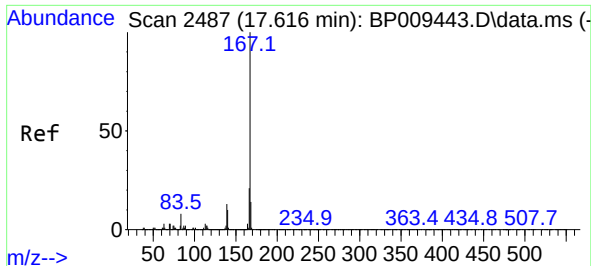


#72
Anthracene
Concen: 6.372 ng
RT: 17.280 min Scan# 2430
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19



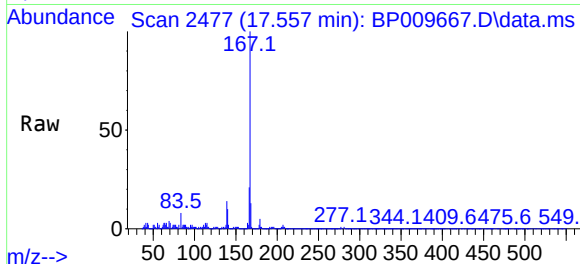
Tgt Ion:178 Resp: 399880
Ion Ratio Lower Upper
178 100
176 18.8 14.8 22.2
179 16.2 12.2 18.4





#73
 Carbazole
 Concen: 4.262 ng
 RT: 17.557 min Scan# 2487
 Delta R.T. -0.012 min
 Lab File: BP009667.D
 Acq: 01 Apr 2022 20:19

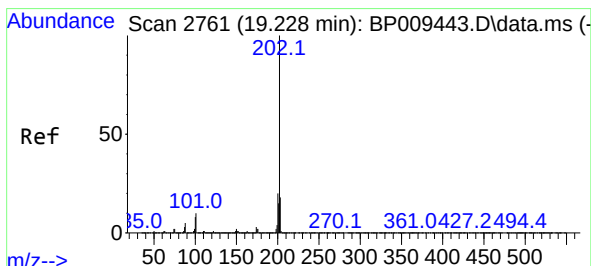
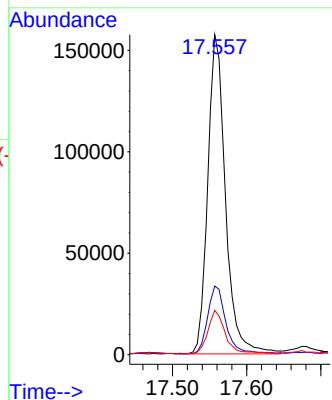
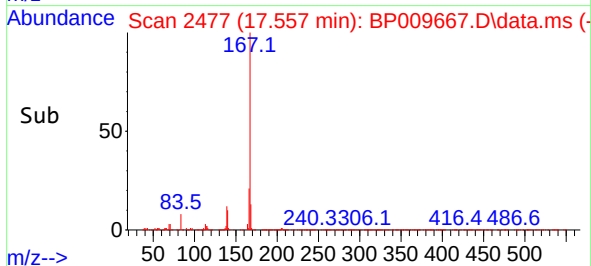
Instrument :
 BNA_P
 ClientSampleId :
 A06015



Tgt Ion:167 Resp: 261580
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.2 25.8
 139 13.9 10.3 15.5

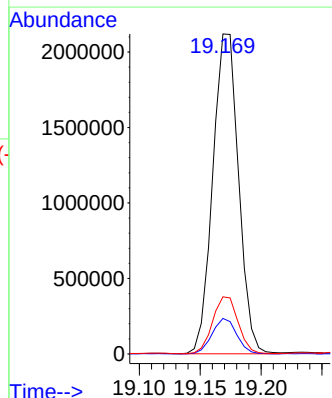
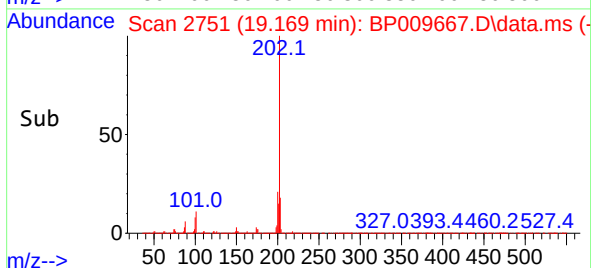
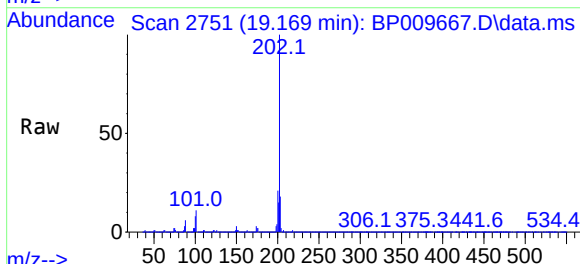
Manual Integrations
 APPROVED

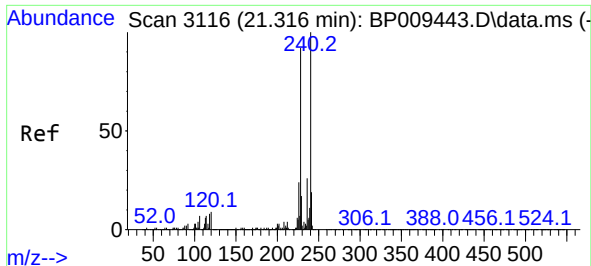
Reviewed By :Christian Giraldo 04/04/2022
 Supervised By :Jagrut Upadhyay 04/04/2022



#75
 Fluoranthene
 Concen: 40.599 ng
 RT: 19.169 min Scan# 2751
 Delta R.T. -0.012 min
 Lab File: BP009667.D
 Acq: 01 Apr 2022 20:19

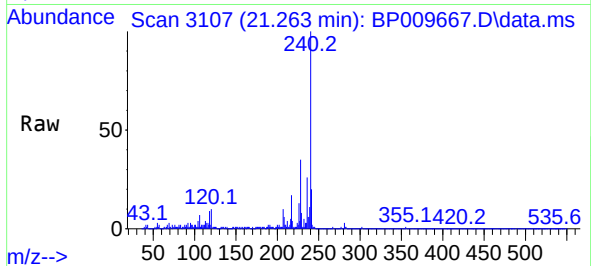
Tgt Ion:202 Resp: 3124295
 Ion Ratio Lower Upper
 202 100
 101 11.1 0.0 31.5
 203 17.8 0.0 37.8





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.263 min Scan# 3116
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

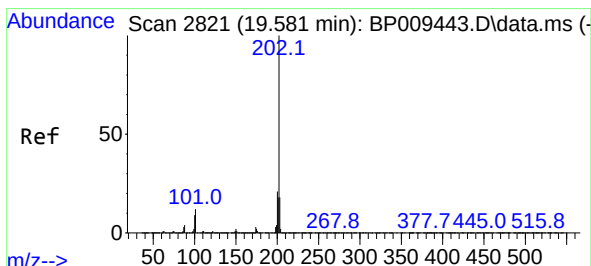
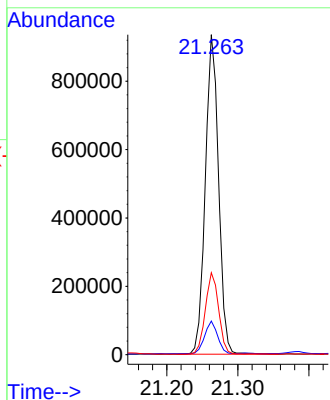
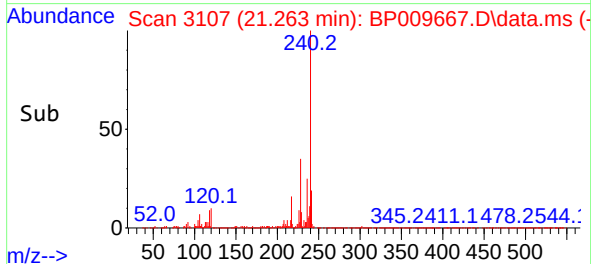
Instrument :
BNA_P
ClientSampleId :
A06015



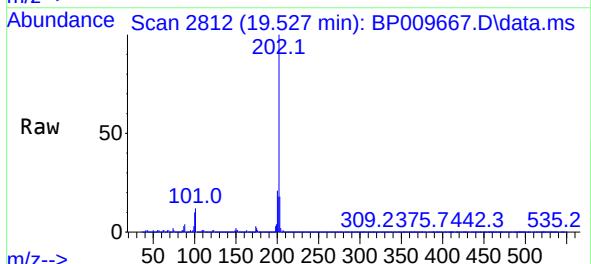
Tgt Ion:240 Resp: 1212730
Ion Ratio Lower Upper
240 100
120 10.5 9.0 13.4
236 25.6 20.6 30.8

Manual Integrations
APPROVED

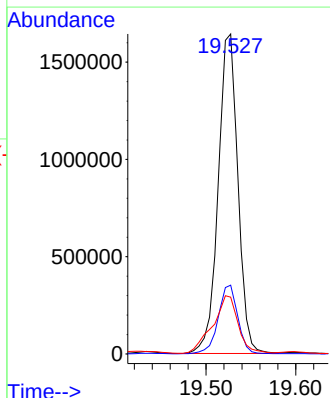
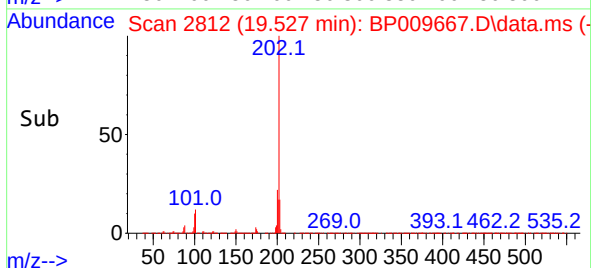
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022

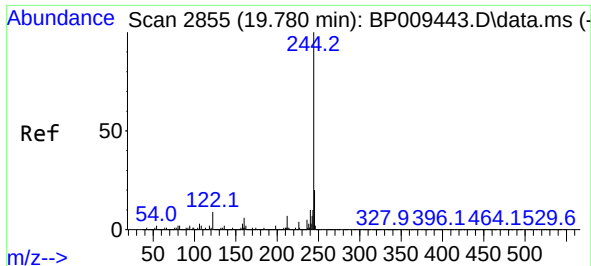


#78
Pyrene
Concen: 31.356 ng
RT: 19.527 min Scan# 2812
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19



Tgt Ion:202 Resp: 2505772
Ion Ratio Lower Upper
202 100
200 21.5 16.8 25.2
203 17.8 14.2 21.4





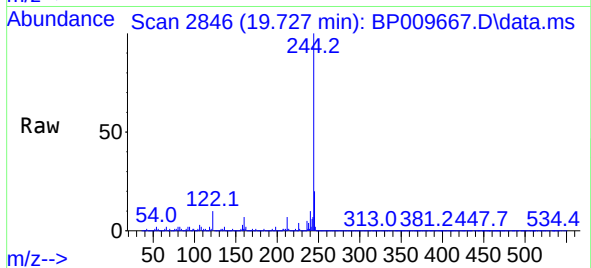
#79
Terphenyl-d14
Concen: 60.397 ng
RT: 19.727 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Instrument :

BNA_P

ClientSampleId :

A06015



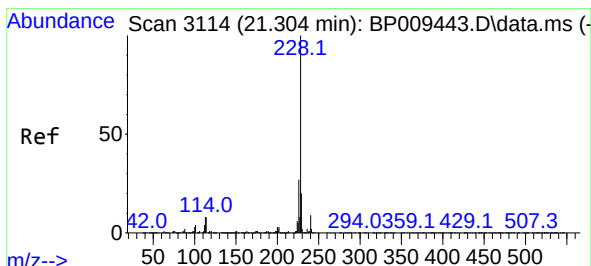
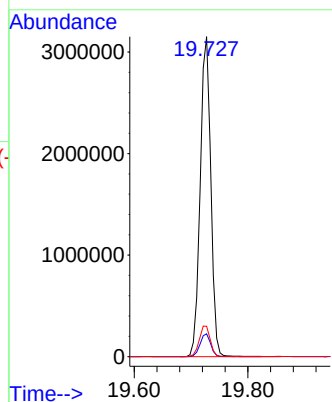
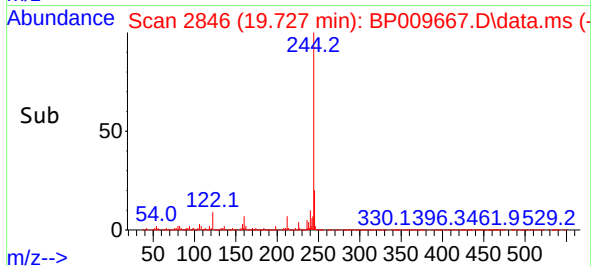
Tgt Ion:244 Resp: 408079

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.8	8.6
122	9.5	8.3	12.5

Manual Integrations

APPROVED

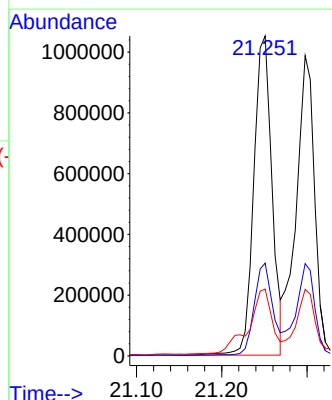
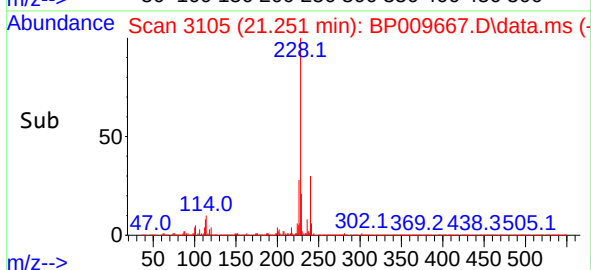
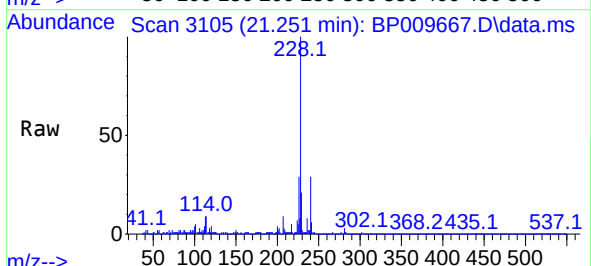
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022

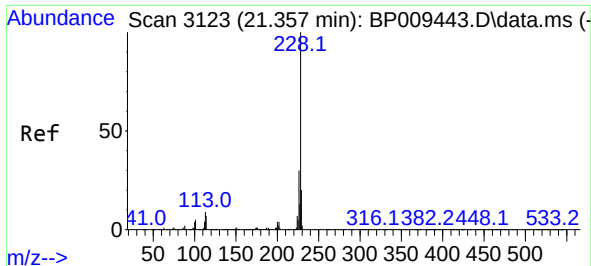


#81
Benzo(a)anthracene
Concen: 19.542 ng
RT: 21.251 min Scan# 3105
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Tgt Ion:228 Resp: 1557014

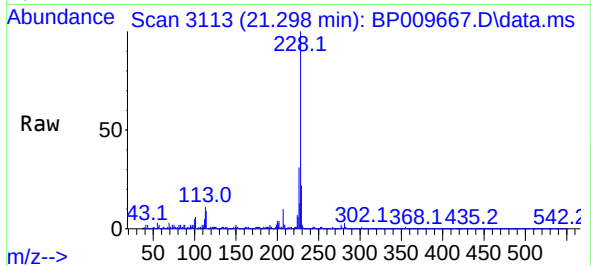
Ion	Ratio	Lower	Upper
228	100		
226	29.0	22.0	33.0
229	20.9	16.1	24.1





#83
Chrysene
Concen: 19.640 ng m
RT: 21.298 min Scan# 3113
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

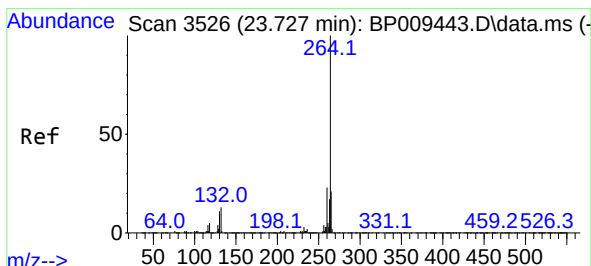
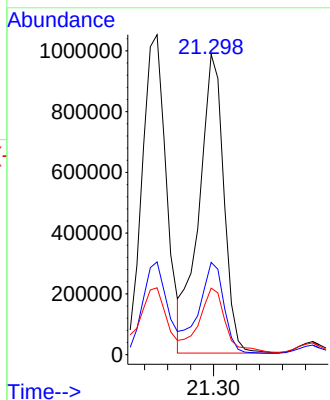
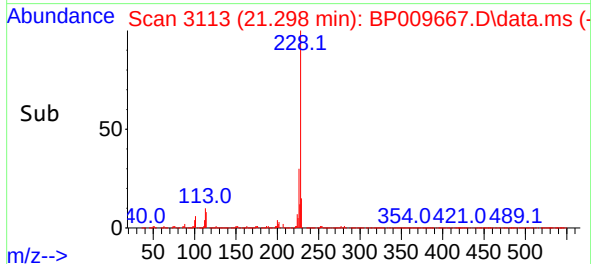
Instrument :
BNA_P
ClientSampleId :
A06015



Tgt Ion:228 Resp: 148173
Ion Ratio Lower Upper
228 100
226 30.7 24.2 36.2
229 22.2 16.1 24.1

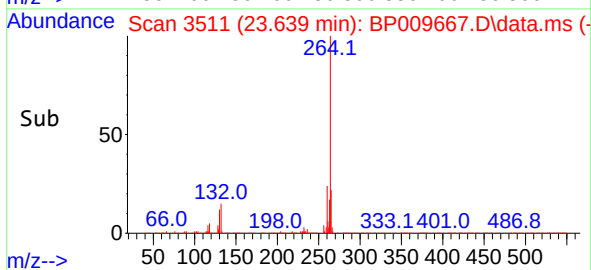
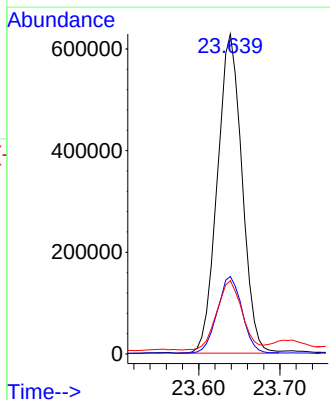
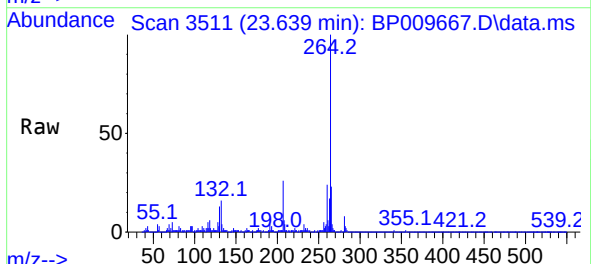
Manual Integrations
APPROVED

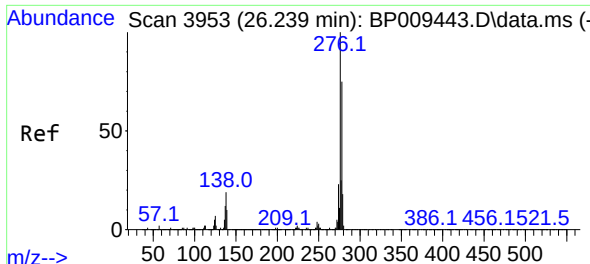
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022



#86
Perylene-d12
Concen: 20.000 ng
RT: 23.639 min Scan# 3511
Delta R.T. -0.012 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

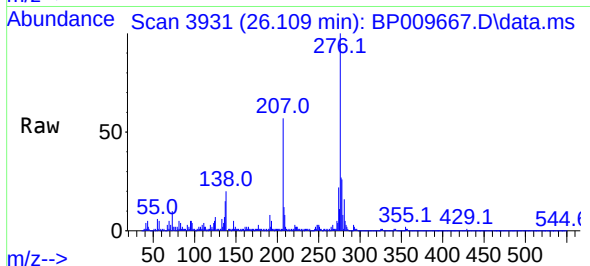
Tgt Ion:264 Resp: 1326806
Ion Ratio Lower Upper
264 100
260 24.2 19.4 29.0
265 22.9 17.2 25.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 9.527 ng
RT: 26.109 min Scan# 3389
Delta R.T. -0.029 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

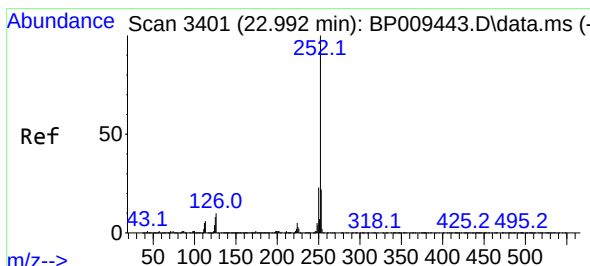
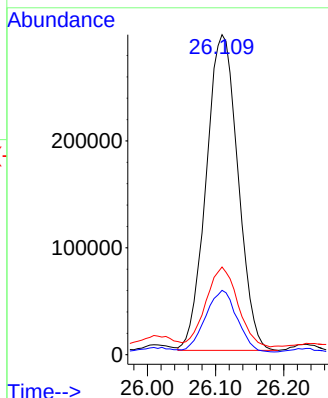
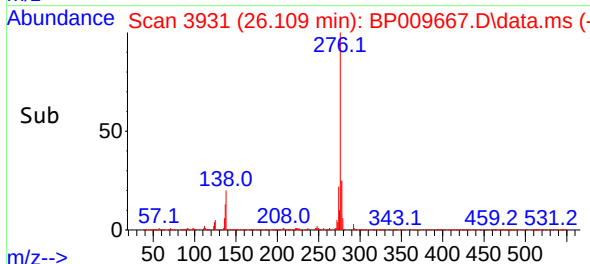
Instrument :
BNA_P
ClientSampleId :
A06015



Tgt Ion: 276 Resp: 95898
Ion Ratio Lower Upper
276 100
138 19.4 20.5 30.7
277 25.3 20.4 30.6

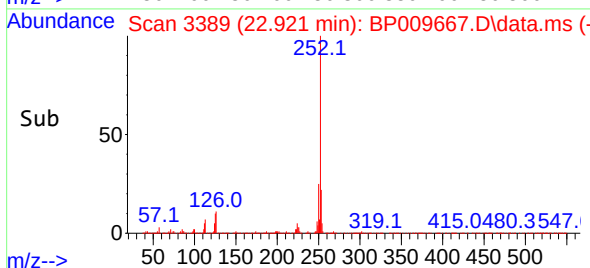
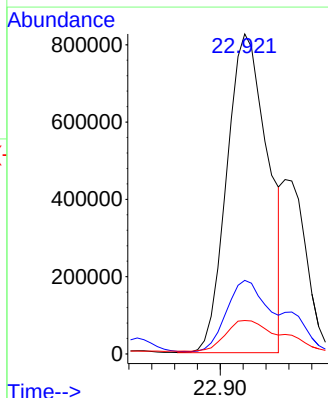
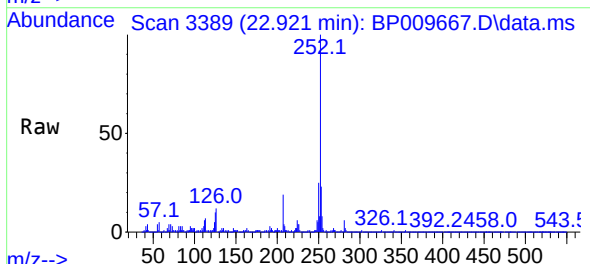
Manual Integrations
APPROVED

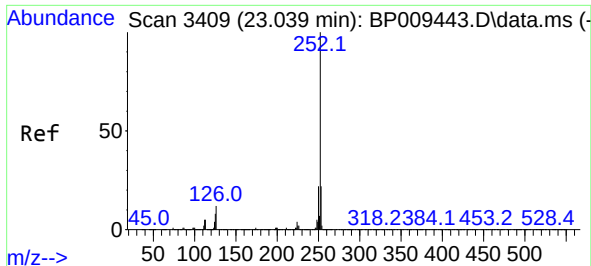
Reviewed By : Christian Giraldo 04/04/2022
Supervised By : Jagrut Upadhyay 04/04/2022



#88
Benzo(b)fluoranthene
Concen: 26.045 ng m
RT: 22.921 min Scan# 3389
Delta R.T. -0.006 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Tgt Ion: 252 Resp: 2062922
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 10.5 8.1 12.1





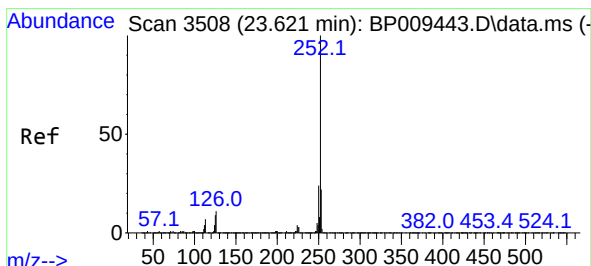
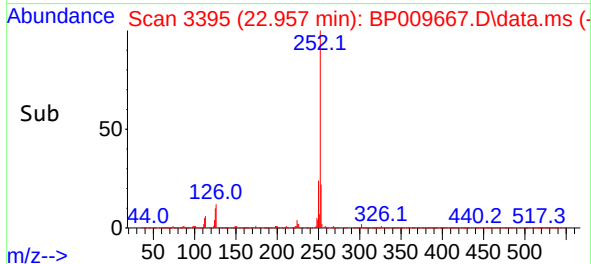
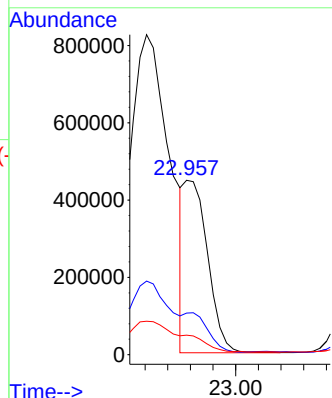
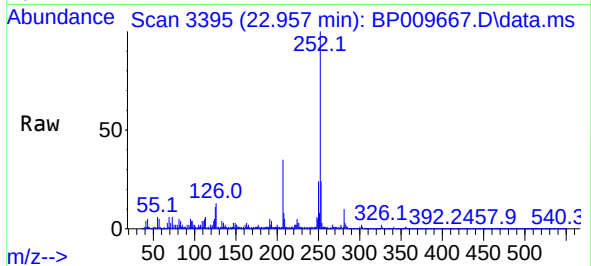
#89
Benzo(k)fluoranthene
Concen: 8.287 ng m
RT: 22.957 min Scan# 31
Delta R.T. -0.024 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Instrument :
BNA_P
ClientSampleId :
A06015

Tgt Ion:252 Resp: 642660
Ion Ratio Lower Upper
252 100
253 23.8 17.5 26.3
125 11.2 8.3 12.5

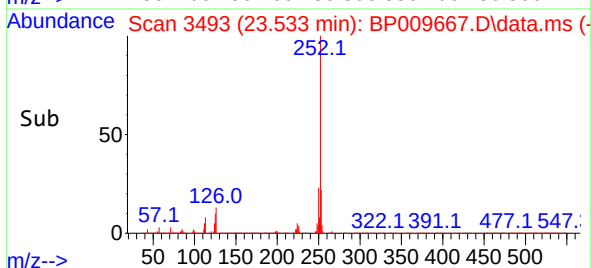
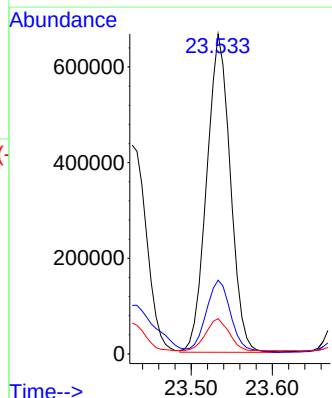
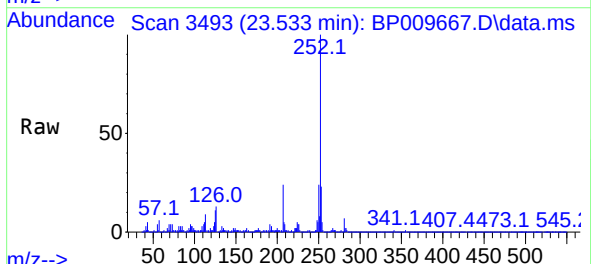
Manual Integrations
APPROVED

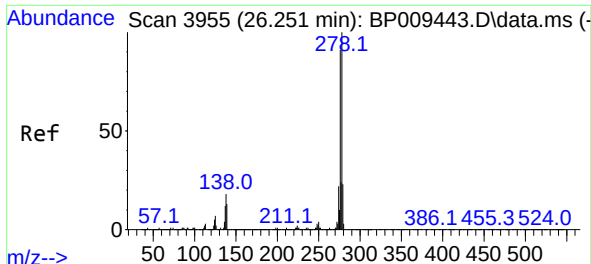
Reviewed By :Christian Giraldo 04/04/2022
Supervised By :Jagrut Upadhyay 04/04/2022



#90
Benzo(a)pyrene
Concen: 19.880 ng
RT: 23.533 min Scan# 3493
Delta R.T. -0.018 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

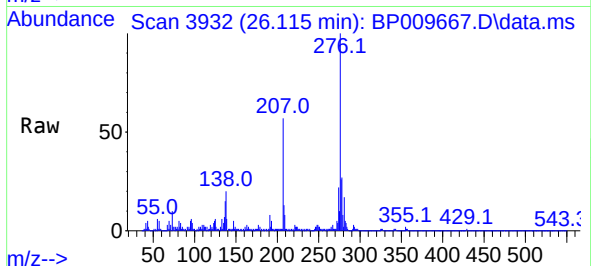
Tgt Ion:252 Resp: 1347230
Ion Ratio Lower Upper
252 100
253 23.1 17.8 26.6
125 11.1 9.3 13.9





#91
Dibenzo(a,h)anthracene
Concen: 3.471 ng m
RT: 26.115 min Scan# 3955
Delta R.T. -0.035 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

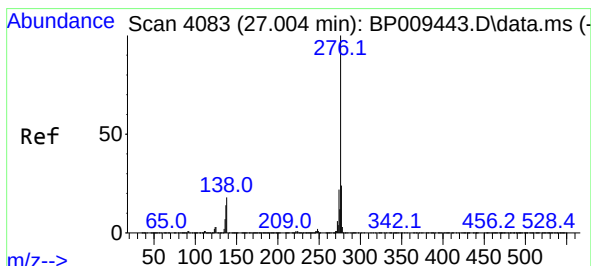
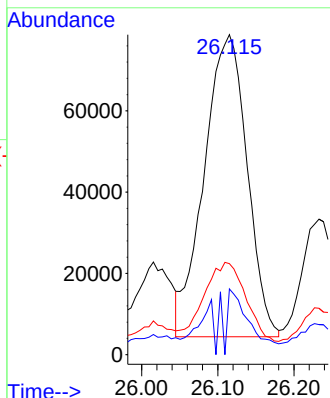
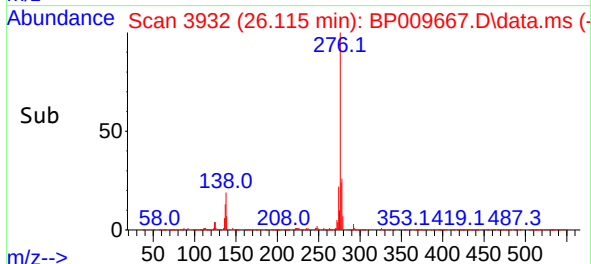
Instrument :
BNA_P
ClientSampleId :
A06015



Tgt Ion: 278 Resp: 29123
Ion Ratio Lower Upper
278 100
139 20.6 13.2 19.8
279 28.4 19.2 28.8

Manual Integrations
APPROVED

Reviewed By : Christian Giraldo 04/04/2022
Supervised By : Jagrut Upadhyay 04/04/2022



#92
Benzo(g,h,i)perylene
Concen: 10.665 ng
RT: 26.868 min Scan# 4060
Delta R.T. -0.029 min
Lab File: BP009667.D
Acq: 01 Apr 2022 20:19

Tgt Ion: 276 Resp: 880171
Ion Ratio Lower Upper
276 100
277 27.4 19.2 28.8
138 20.7 18.0 27.0

