

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012522\
 Data File : BP008915.D
 Acq On : 25 Jan 2022 19:22
 Operator : CG/JU
 Sample : N1208-04DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 SP25-07-20220119-29.5-30.0DL

Quant Time: Jan 26 01:59:04 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP011422.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 26 01:52:51 2022
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : Christian Giraldo 01/26/2022
 Supervised By : Jagrut Upadhyay 01/26/2022

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.834	152	257621	20.000	ng	0.00
21) Naphthalene-d8	10.634	136	958835	20.000	ng	0.00
39) Acenaphthene-d10	14.475	164	589948	20.000	ng	0.00
64) Phenanthrene-d10	17.233	188	1219914	20.000	ng	0.00
76) Chrysene-d12	21.327	240	1335384	20.000	ng	0.00
86) Perylene-d12	23.739	264	1519352	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	317188	19.040	ng	0.00
7) Phenol-d6	7.016	99	377351	18.705	ng	0.00
23) Nitrobenzene-d5	8.993	82	217129	12.856	ng	0.00
42) 2,4,6-Tribromophenol	15.975	330	165450	19.267	ng	0.00
45) 2-Fluorobiphenyl	13.098	172	517299	11.563	ng	0.00
79) Terphenyl-d14	19.798	244	799017	10.100	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.687	128	1790660	34.384	ng	100
37) 2-Methylnaphthalene	12.298	142	541014	14.211	ng	98
38) 1-Methylnaphthalene	12.516	142	318098	9.103	ng	98
46) 1,1'-Biphenyl	13.310	154	125716	2.619	ng	97
49) Acenaphthylene	14.198	152	204841	3.663	ng	97
52) Acenaphthene	14.540	154	274053	8.264	ng	99
55) Dibenzofuran	14.875	168	477462	8.835	ng	97
58) Fluorene	15.528	166	586392	13.738	ng	98
71) Phenanthrene	17.275	178	3156879	45.962	ng	99
72) Anthracene	17.369	178	1071349	15.549	ng	99
75) Fluoranthene	19.251	202	2634494	34.491	ng	97
78) Pyrene	19.604	202	2047505	21.974	ng	98
81) Benzo(a)anthracene	21.316	228	1260013	14.025	ng	95
83) Chrysene	21.363	228	1083491m	12.441	ng	
87) Indeno(1,2,3-cd)pyrene	26.257	276	676547	5.404	ng	96
88) Benzo(b)fluoranthene	23.010	252	1333629	13.144	ng	99
89) Benzo(k)fluoranthene	23.051	252	424341m	4.320	ng	
90) Benzo(a)pyrene	23.633	252	1150553	11.748	ng	99
92) Benzo(g,h,i)perylene	27.027	276	587836	5.655	ng	98

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

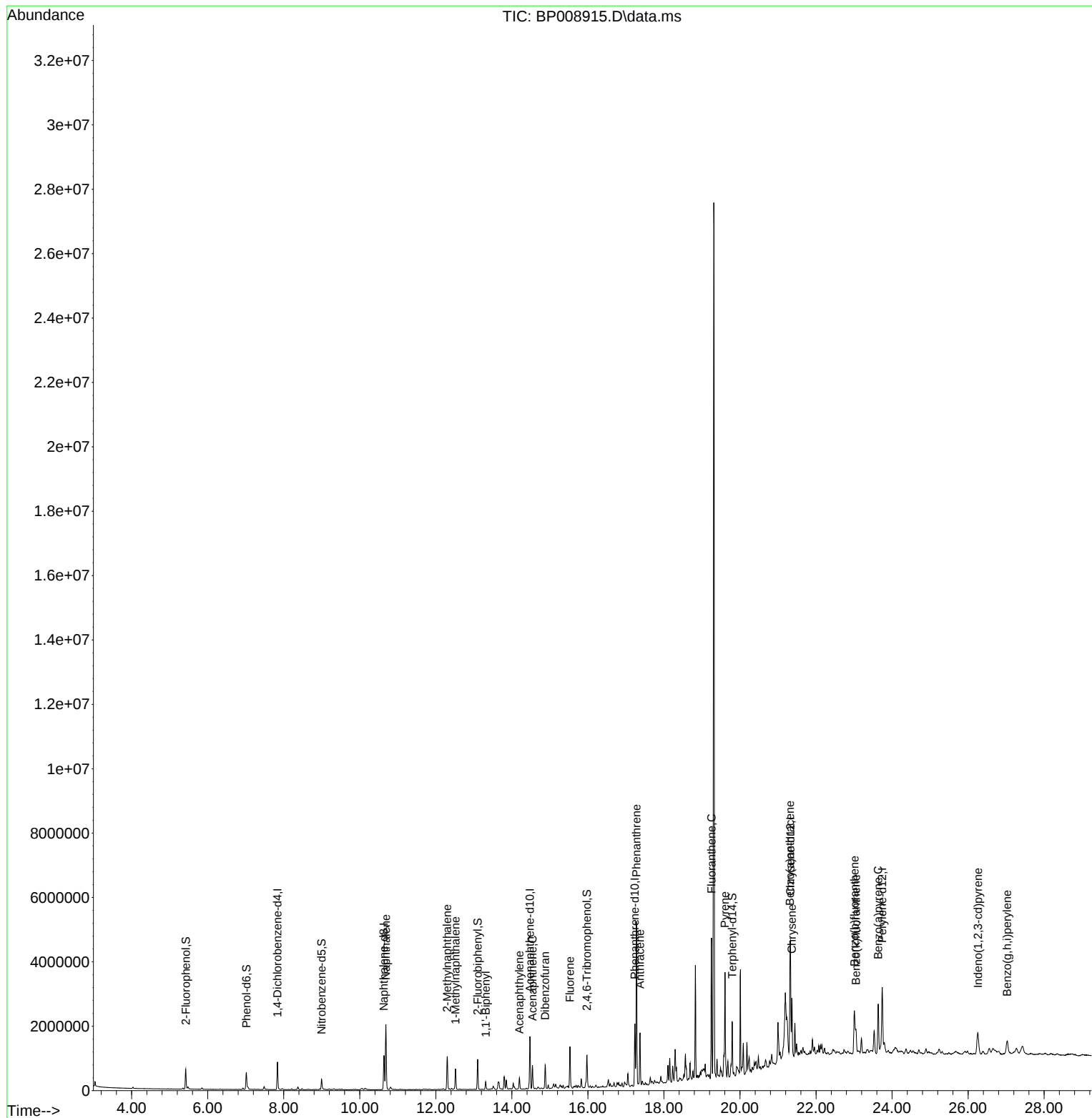
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012522\
Data File : BP008915.D
Acq On : 25 Jan 2022 19:22
Operator : CG/JU
Sample : N1208-04DL 5X
Misc :
ALS Vial : 16 Sample Multiplier: 1

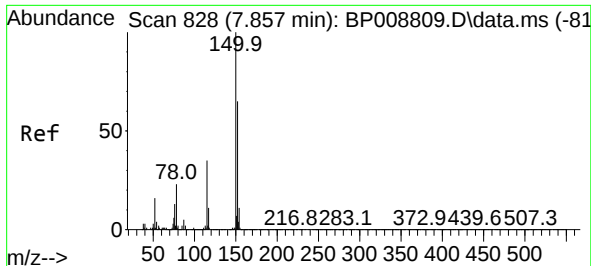
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL

Quant Time: Jan 26 01:59:04 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP011422.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 26 01:52:51 2022
Response via : Initial Calibration

Manual Integrations
APPROVED

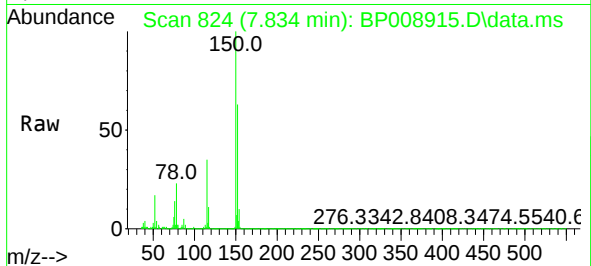
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.834 min Scan# 81
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

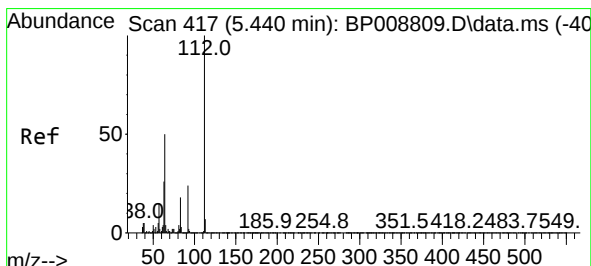
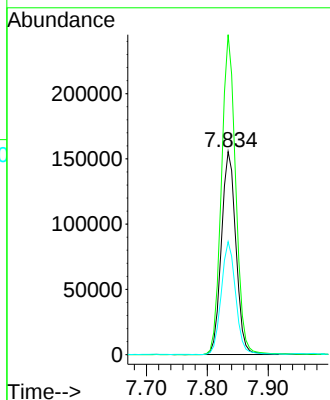
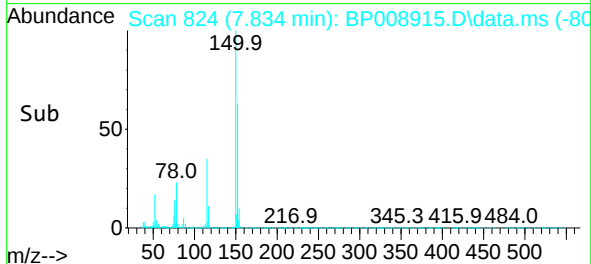
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL



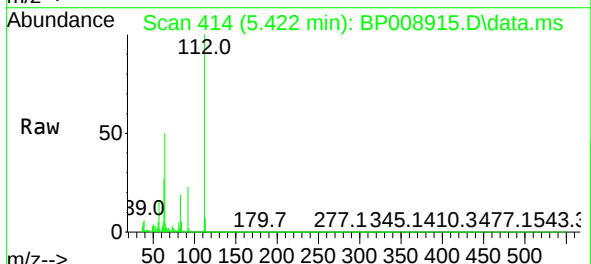
Tgt Ion:152 Resp: 25762
Ion Ratio Lower Upper
152 100
150 157.7 127.0 190.6
115 55.6 43.7 65.5

Manual Integrations
APPROVED

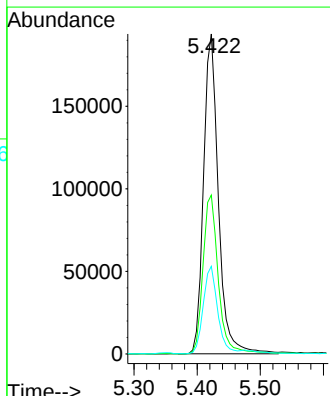
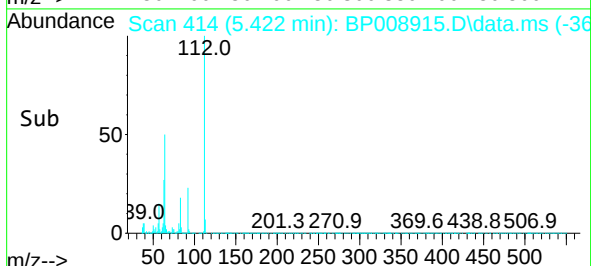
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022

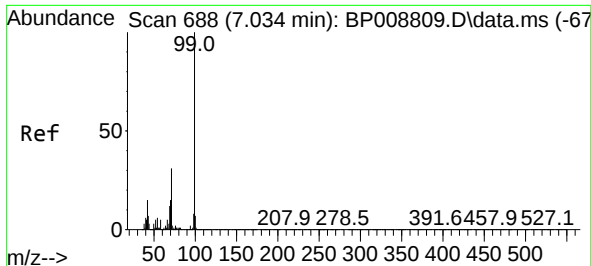


#5
2-Fluorophenol
Concen: 19.040 ng
RT: 5.422 min Scan# 414
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22



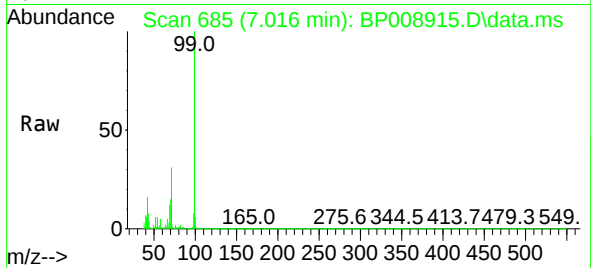
Tgt Ion:112 Resp: 317188
Ion Ratio Lower Upper
112 100
64 49.6 39.7 59.5
63 27.4 20.0 30.0





#7
Phenol-d6
Concen: 18.705 ng
RT: 7.016 min Scan# 61
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

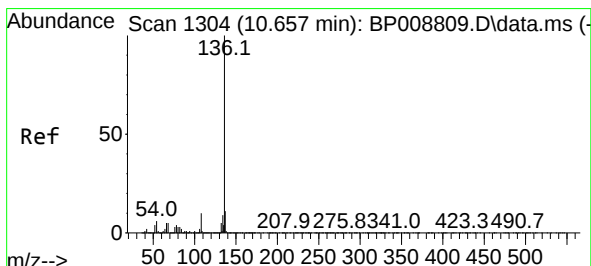
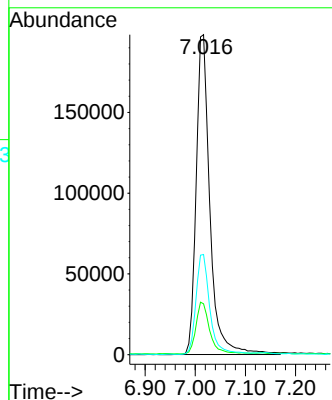
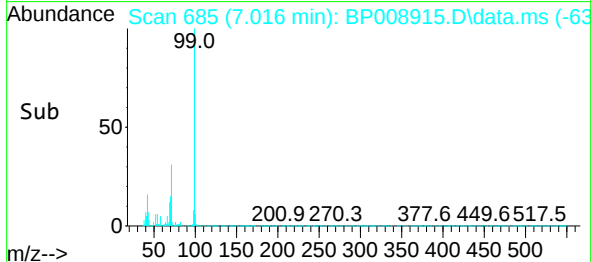
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL



Tgt Ion: 99 Resp: 37735
Ion Ratio Lower Upper
99 100
42 15.9 10.8 16.2
71 31.3 23.8 35.6

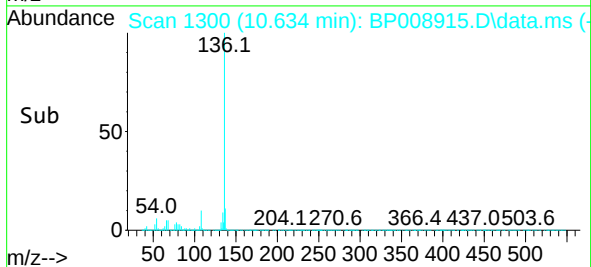
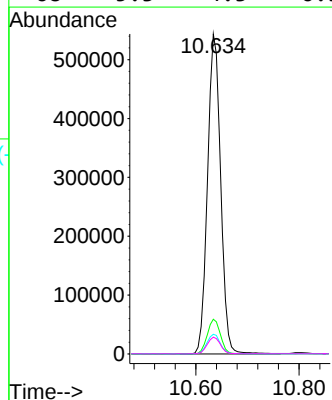
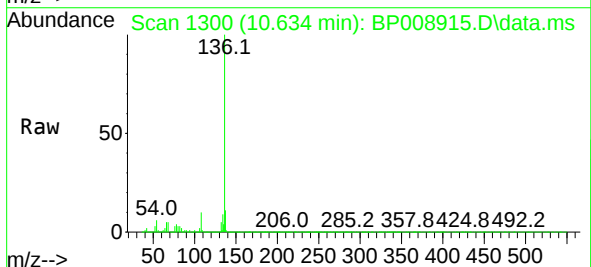
Manual Integrations
APPROVED

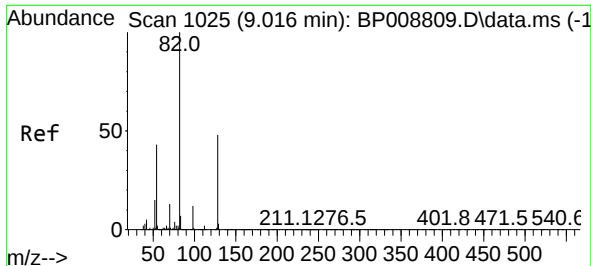
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.634 min Scan# 1300
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

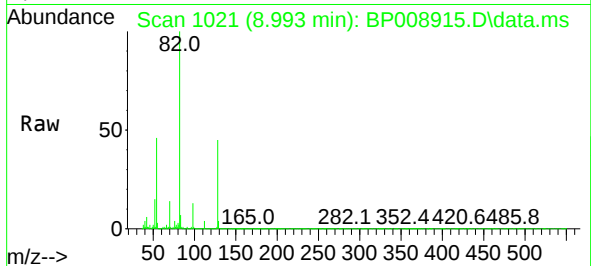
Tgt Ion:136 Resp: 958835
Ion Ratio Lower Upper
136 100
137 10.9 9.0 13.4
54 6.2 4.9 7.3
68 5.3 4.3 6.5





#23
Nitrobenzene-d5
Concen: 12.856 ng
RT: 8.993 min Scan# 1025
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

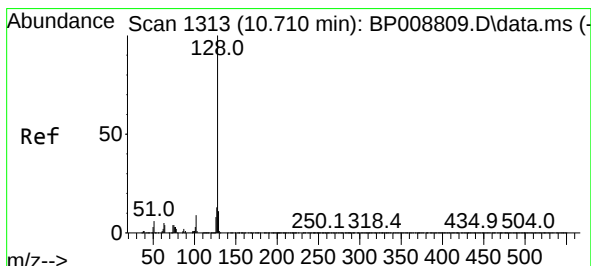
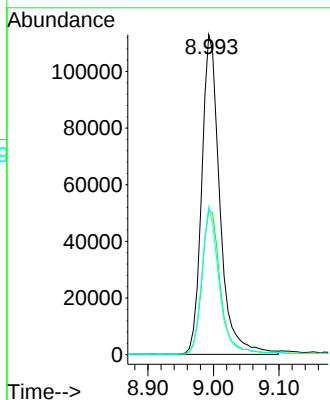
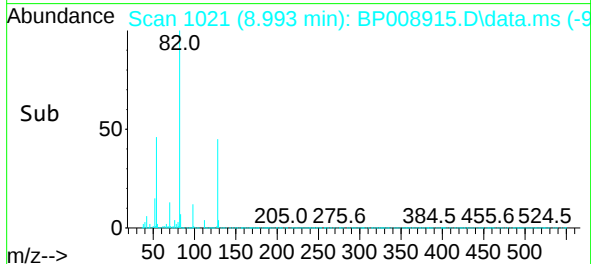
Instrument : BNA_P
ClientSampleId : SP25-07-20220119-29.5-30.0DL



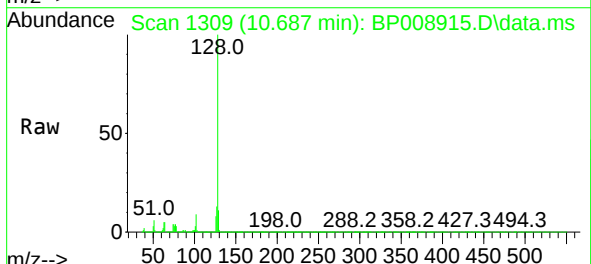
Tgt Ion: 82 Resp: 217129
Ion Ratio Lower Upper
82 100
128 45.1 39.4 59.2
54 46.2 32.6 48.8

Manual Integrations
APPROVED

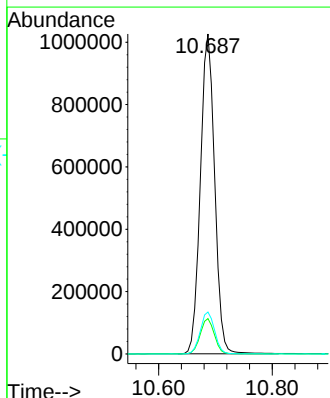
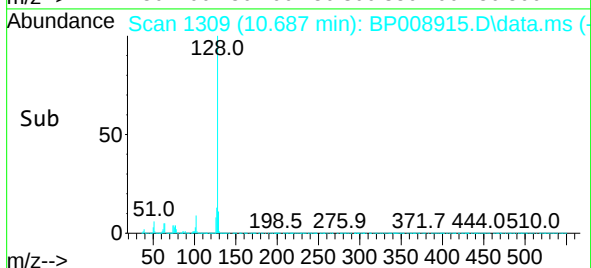
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022

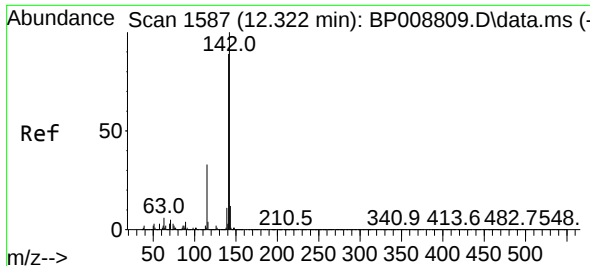


#31
Naphthalene
Concen: 34.384 ng
RT: 10.687 min Scan# 1309
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22



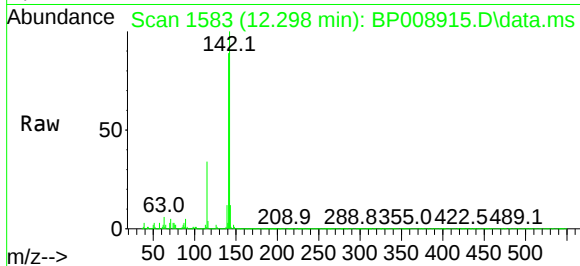
Tgt Ion:128 Resp: 1790660
Ion Ratio Lower Upper
128 100
129 11.1 8.8 13.2
127 13.1 10.4 15.6





#37
2-Methylnaphthalene
Concen: 14.211 ng
RT: 12.298 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

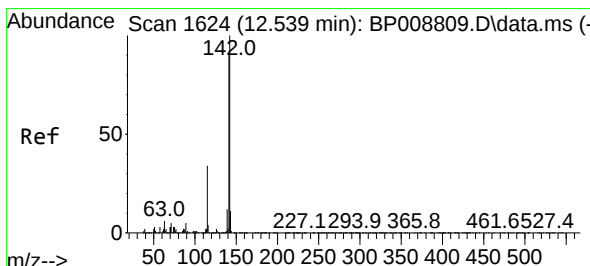
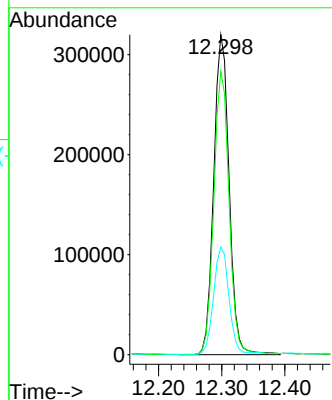
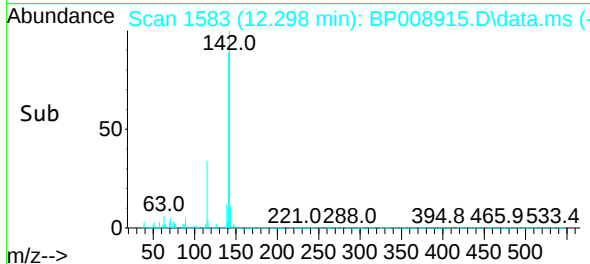
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL



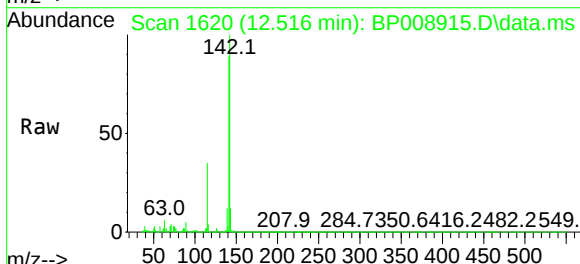
Tgt Ion:142 Resp: 541014
Ion Ratio Lower Upper
142 100
141 88.5 70.5 105.7
115 33.7 24.6 36.8

Manual Integrations
APPROVED

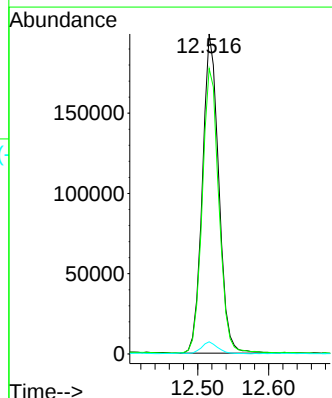
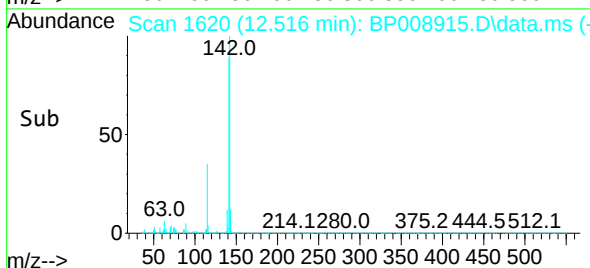
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022

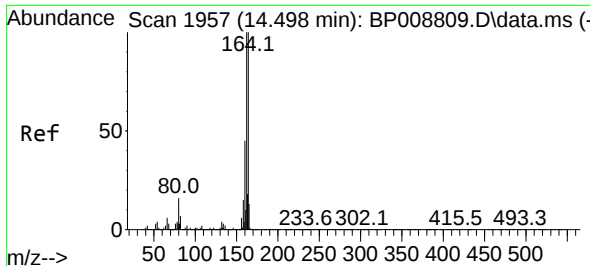


#38
1-Methylnaphthalene
Concen: 9.103 ng
RT: 12.516 min Scan# 1620
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22



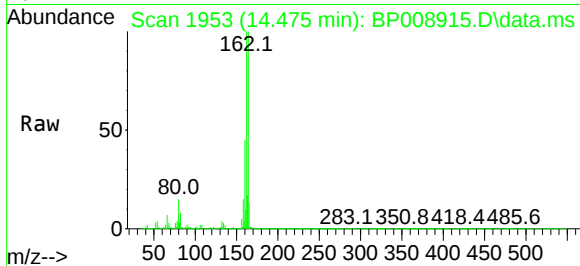
Tgt Ion:142 Resp: 318098
Ion Ratio Lower Upper
142 100
141 89.2 73.2 109.8
116 3.8 2.7 4.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.475 min Scan# 1953
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

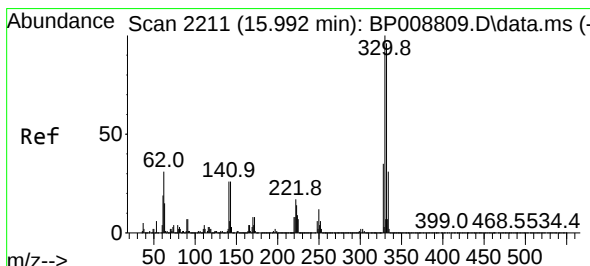
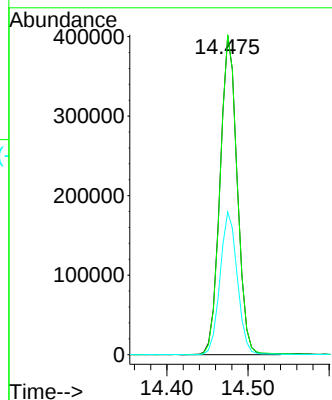
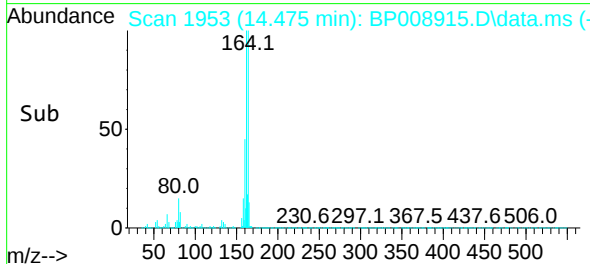
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL



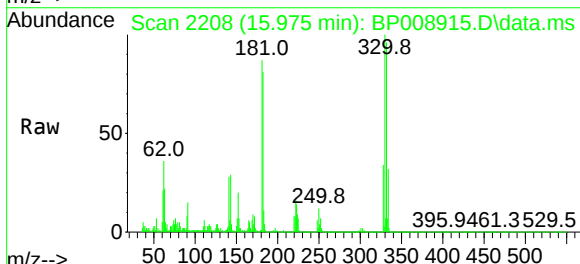
Tgt Ion:164 Resp: 589948
Ion Ratio Lower Upper
164 100
162 100.4 79.9 119.9
160 44.8 35.5 53.3

Manual Integrations
APPROVED

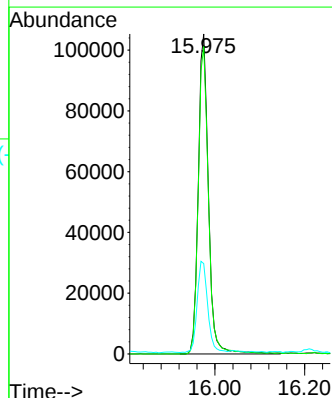
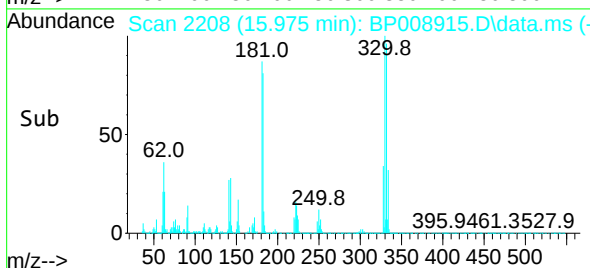
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022

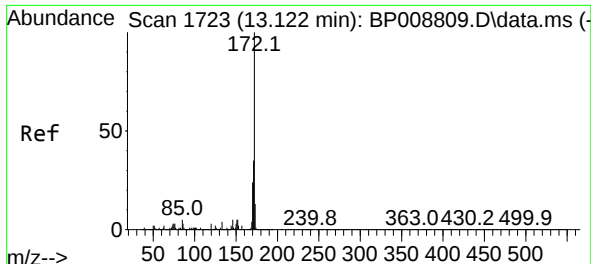


#42
2,4,6-Tribromophenol
Concen: 19.267 ng
RT: 15.975 min Scan# 2208
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22



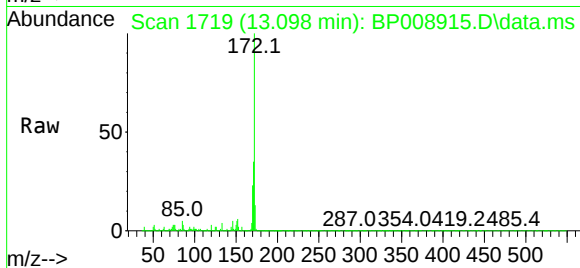
Tgt Ion:330 Resp: 165450
Ion Ratio Lower Upper
330 100
332 96.4 77.0 115.4
141 29.4 21.3 31.9





#45
2-Fluorobiphenyl
Concen: 11.563 ng
RT: 13.098 min Scan# 1719
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

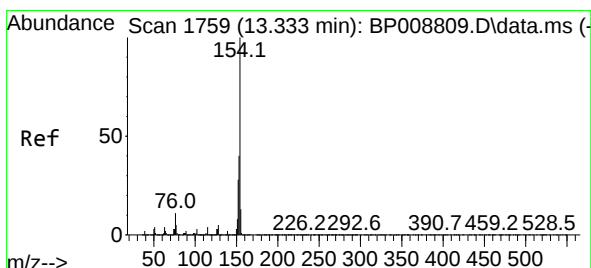
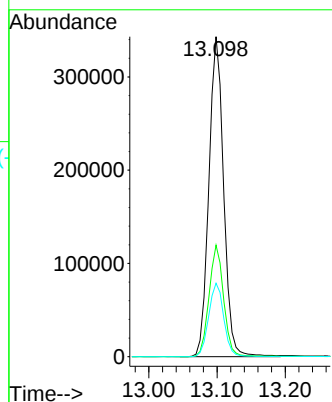
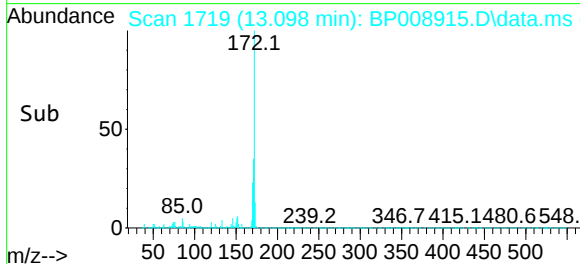
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL



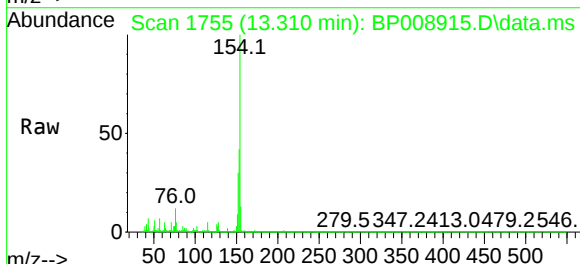
Tgt Ion:172 Resp: 517298
Ion Ratio Lower Upper
172 100
171 34.9 29.3 43.9
170 22.9 19.5 29.3

Manual Integrations
APPROVED

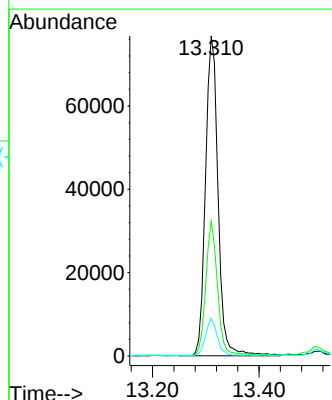
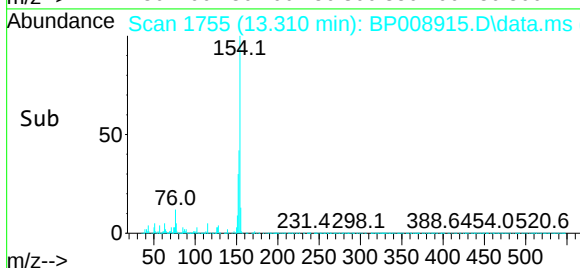
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022

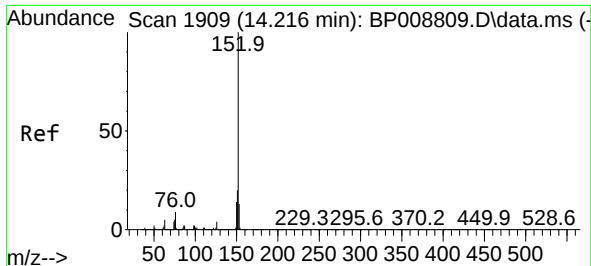


#46
1,1'-Biphenyl
Concen: 2.619 ng
RT: 13.310 min Scan# 1755
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22



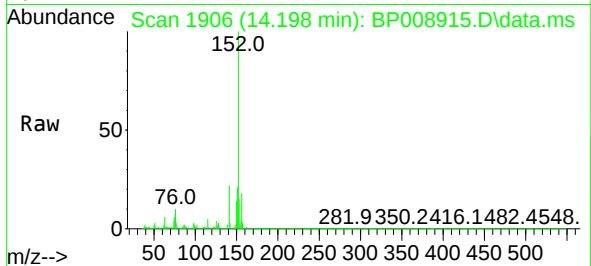
Tgt Ion:154 Resp: 125716
Ion Ratio Lower Upper
154 100
153 42.1 20.3 60.3
76 11.7 0.0 31.1





#49
Acenaphthylene
Concen: 3.663 ng
RT: 14.198 min Scan# 1909
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

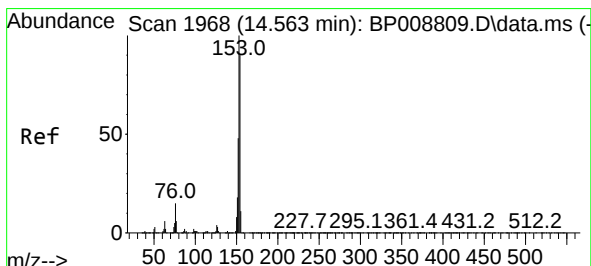
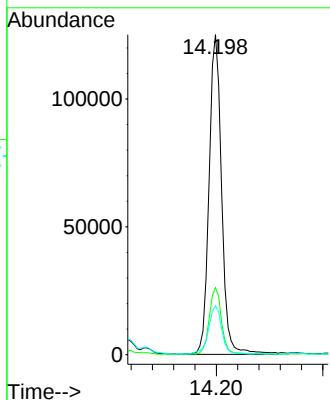
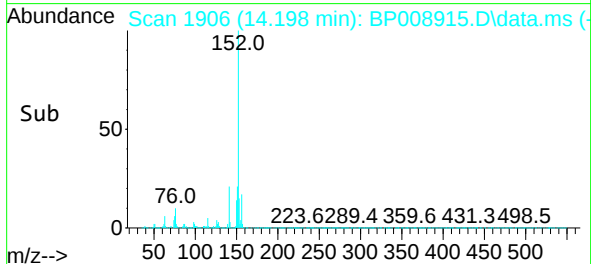
Instrument : BNA_P
ClientSampleId : SP25-07-20220119-29.5-30.0DL



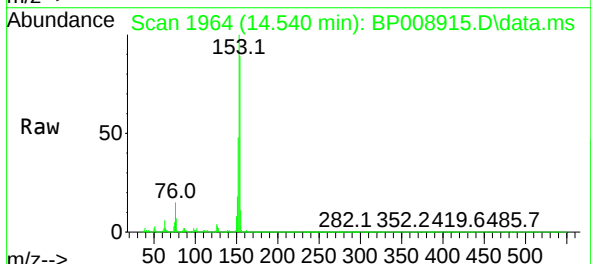
Tgt Ion:152 Resp: 20484
Ion Ratio Lower Upper
152 100
151 20.9 16.1 24.1
153 15.2 10.6 16.0

Manual Integrations
APPROVED

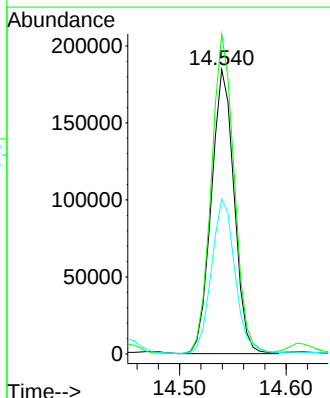
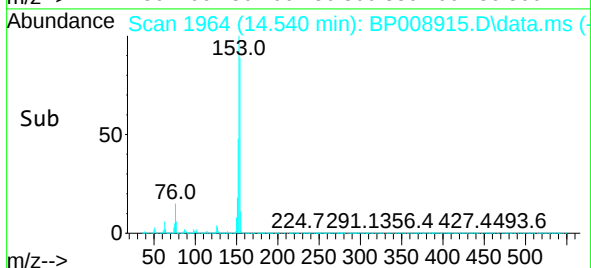
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022

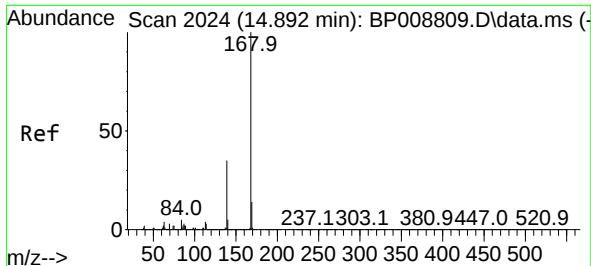


#52
Acenaphthene
Concen: 8.264 ng
RT: 14.540 min Scan# 1964
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22



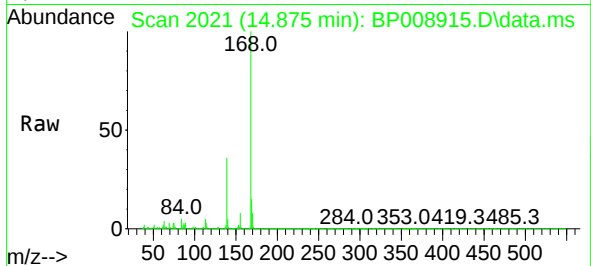
Tgt Ion:154 Resp: 274053
Ion Ratio Lower Upper
154 100
153 112.5 89.4 134.2
152 54.4 42.6 63.8





#55
Dibenzenofuran
Concen: 8.835 ng
RT: 14.875 min Scan# 20
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

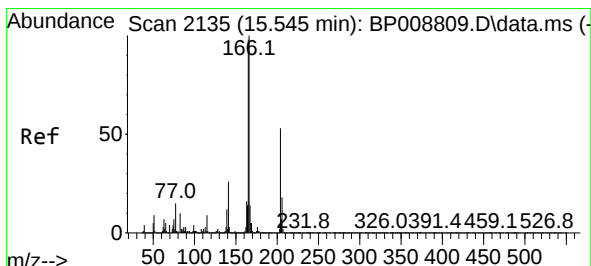
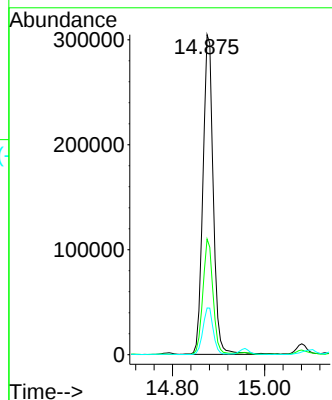
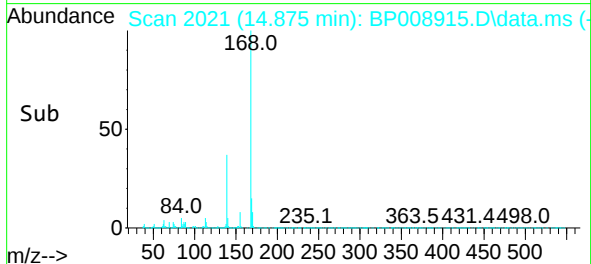
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL



Tgt Ion:168 Resp: 477462
Ion Ratio Lower Upper
168 100
139 36.2 27.4 41.0
169 14.6 10.9 16.3

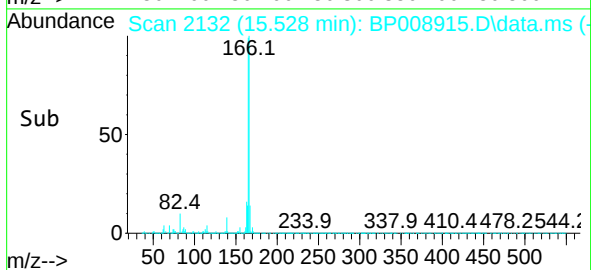
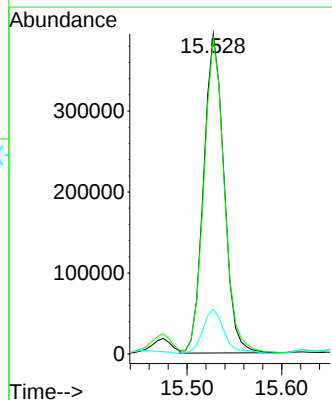
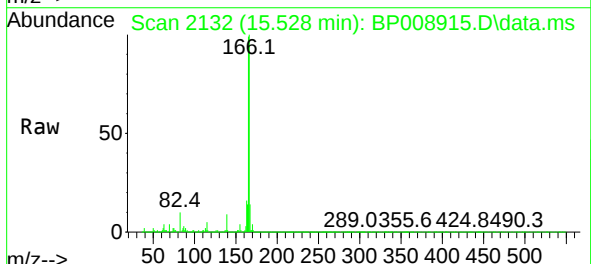
Manual Integrations
APPROVED

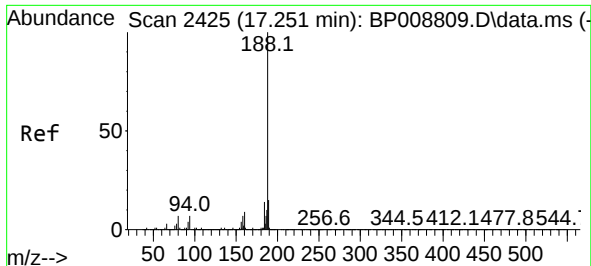
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022



#58
Fluorene
Concen: 13.738 ng
RT: 15.528 min Scan# 2132
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

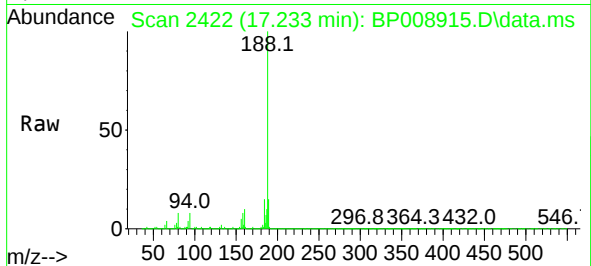
Tgt Ion:166 Resp: 586392
Ion Ratio Lower Upper
166 100
165 98.7 77.2 115.8
167 14.1 11.2 16.8





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.233 min Scan# 2422
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

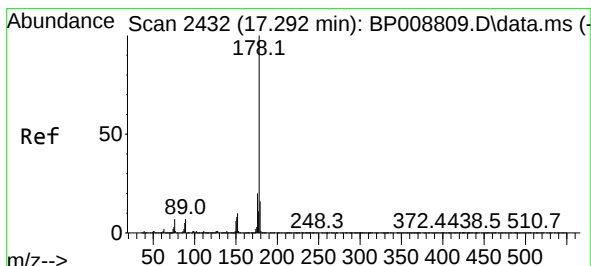
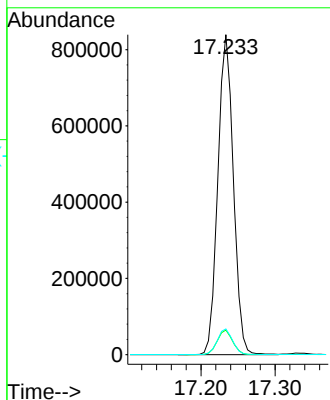
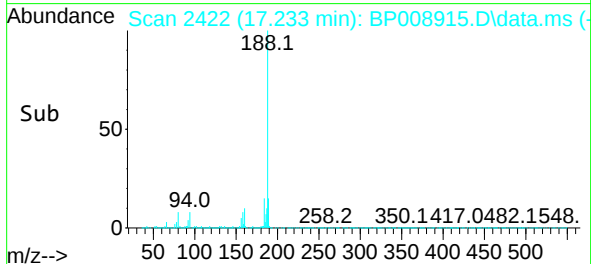
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL



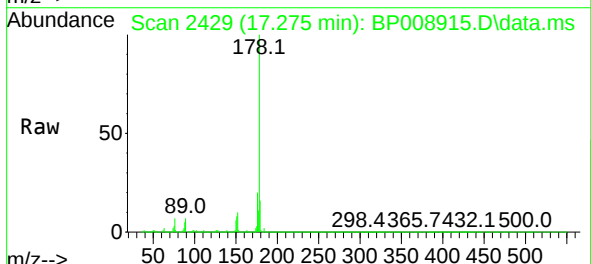
Tgt Ion:188 Resp: 1219914
Ion Ratio Lower Upper
188 100
94 7.7 6.8 10.2
80 8.0 7.2 10.8

Manual Integrations
APPROVED

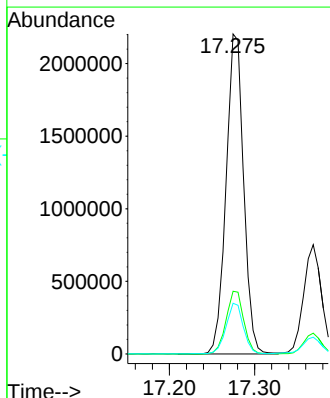
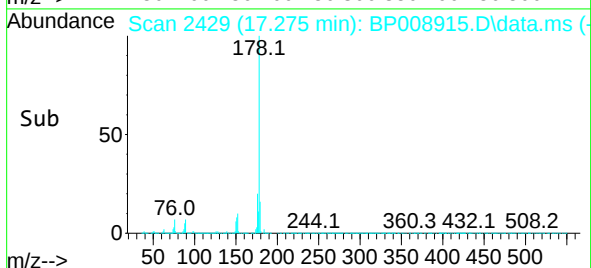
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022

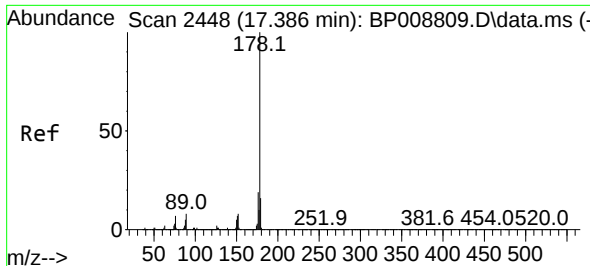


#71
Phenanthrene
Concen: 45.962 ng
RT: 17.275 min Scan# 2429
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22



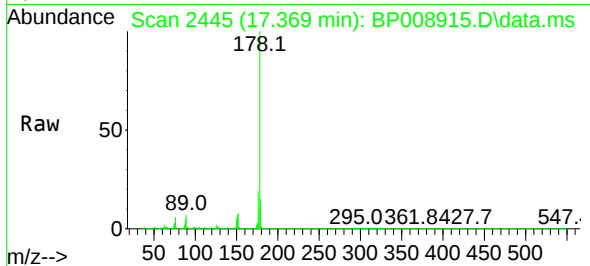
Tgt Ion:178 Resp: 3156879
Ion Ratio Lower Upper
178 100
176 19.6 16.0 24.0
179 15.9 13.0 19.4





#72
 Anthracene
 Concen: 15.549 ng
 RT: 17.369 min Scan# 2448
 Delta R.T. -0.006 min
 Lab File: BP008915.D
 Acq: 25 Jan 2022 19:22

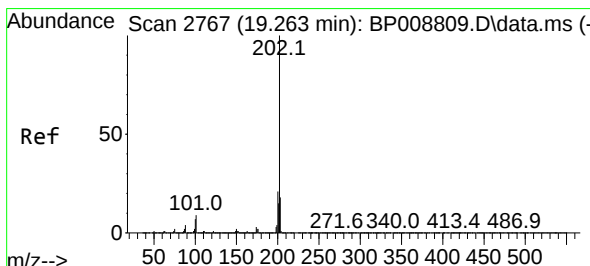
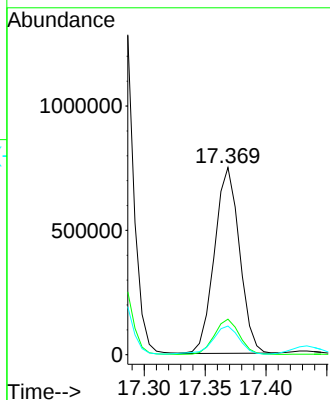
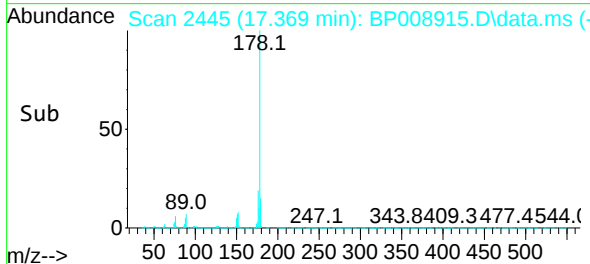
Instrument :
 BNA_P
 ClientSampleId :
 SP25-07-20220119-29.5-30.0DL



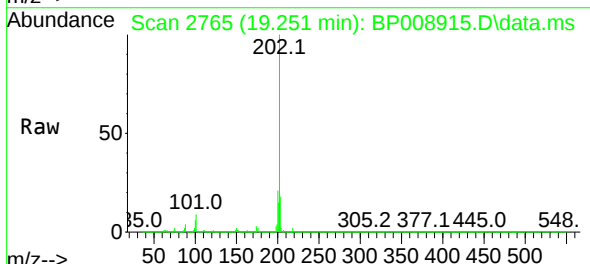
Tgt Ion:178 Resp: 1071349
 Ion Ratio Lower Upper
 178 100
 176 19.0 15.1 22.7
 179 15.3 12.8 19.2

Manual Integrations
 APPROVED

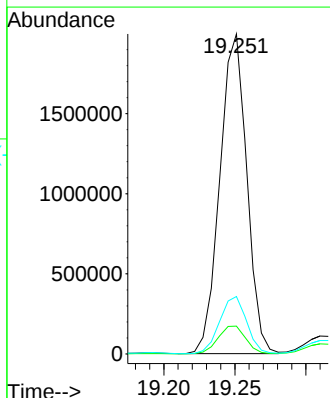
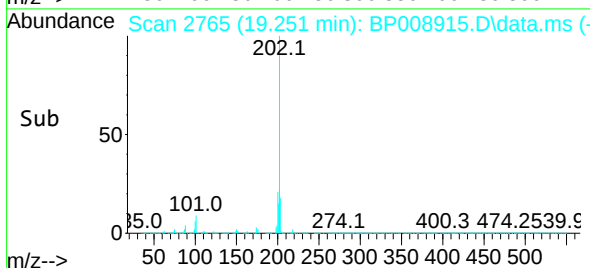
Reviewed By :Christian Giraldo 01/26/2022
 Supervised By :Jagrut Upadhyay 01/26/2022

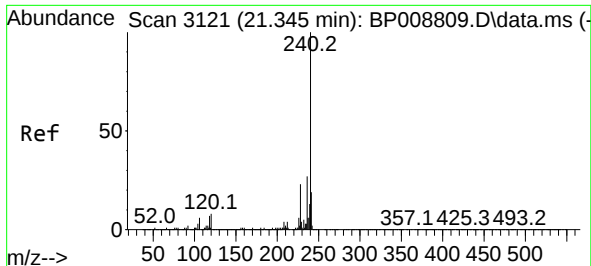


#75
 Fluoranthene
 Concen: 34.491 ng
 RT: 19.251 min Scan# 2765
 Delta R.T. 0.000 min
 Lab File: BP008915.D
 Acq: 25 Jan 2022 19:22



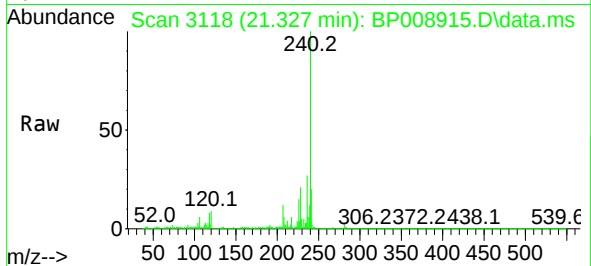
Tgt Ion:202 Resp: 2634494
 Ion Ratio Lower Upper
 202 100
 101 8.7 0.0 30.7
 203 17.9 0.0 38.9





#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.327 min Scan# 3121
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

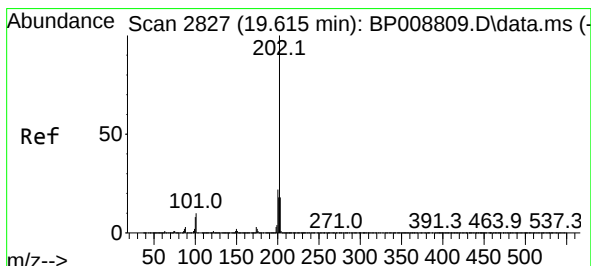
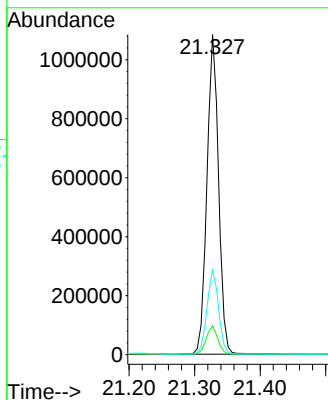
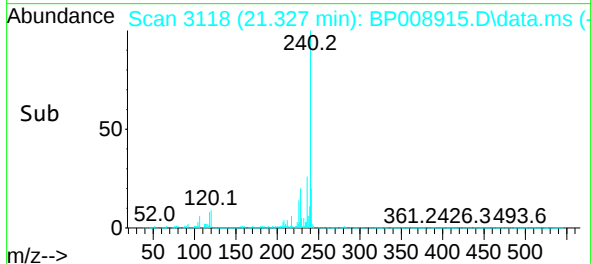
Instrument :
BNA_P
ClientSampleId :
SP25-07-20220119-29.5-30.0DL



Tgt Ion:240 Resp: 1335384
Ion Ratio Lower Upper
240 100
120 9.1 7.7 11.5
236 26.5 21.2 31.8

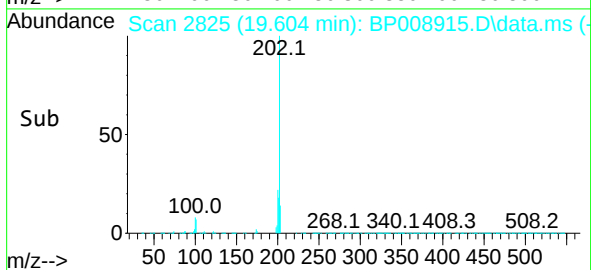
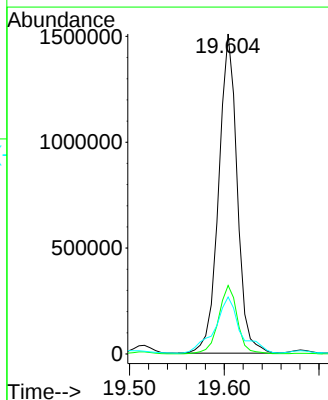
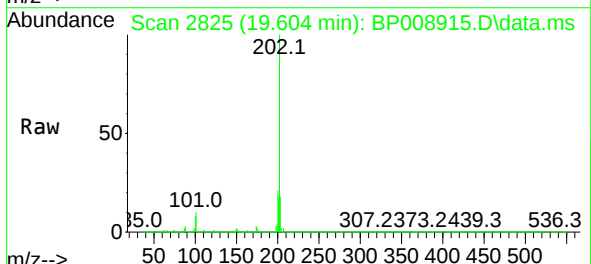
Manual Integrations
APPROVED

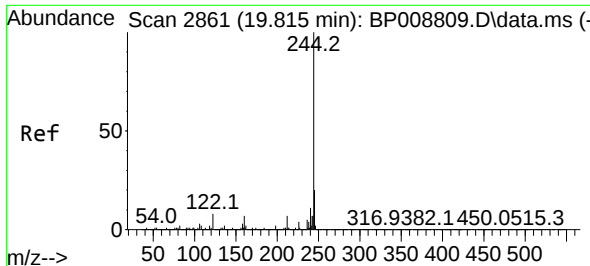
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022



#78
Pyrene
Concen: 21.974 ng
RT: 19.604 min Scan# 2825
Delta R.T. 0.000 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

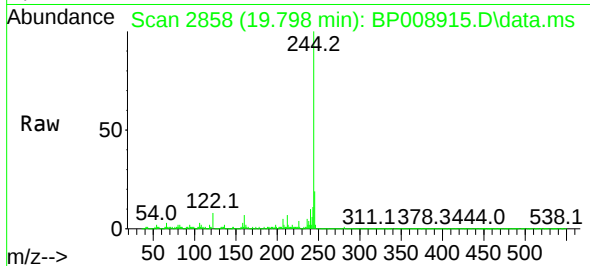
Tgt Ion:202 Resp: 2047505
Ion Ratio Lower Upper
202 100
200 21.4 18.0 27.0
203 17.8 15.0 22.6





#79
 Terphenyl-d14
 Concen: 10.100 ng
 RT: 19.798 min Scan# 211
 Delta R.T. -0.006 min
 Lab File: BP008915.D
 Acq: 25 Jan 2022 19:22

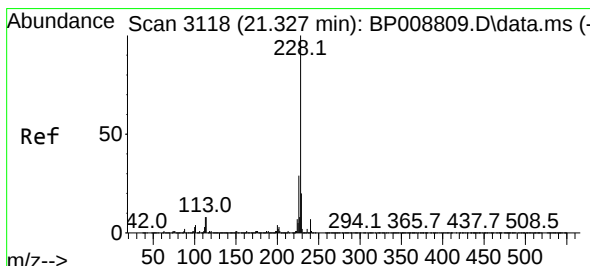
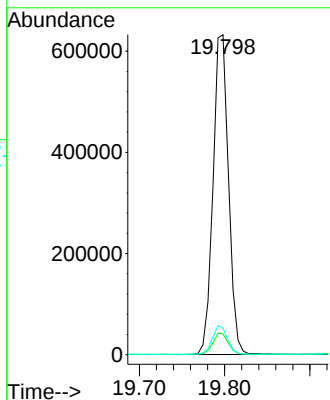
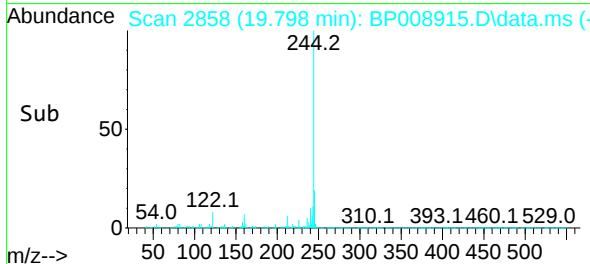
Instrument : BNA_P
 ClientSampleId : SP25-07-20220119-29.5-30.0DL



Tgt Ion:244 Resp: 79901
 Ion Ratio Lower Upper
 244 100
 212 6.5 6.5 9.7
 122 8.3 9.2 13.8

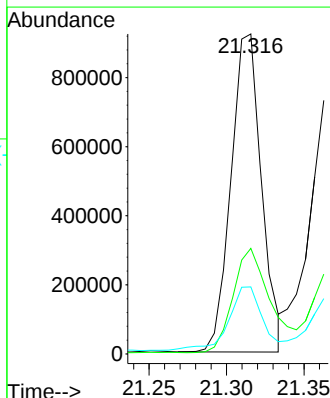
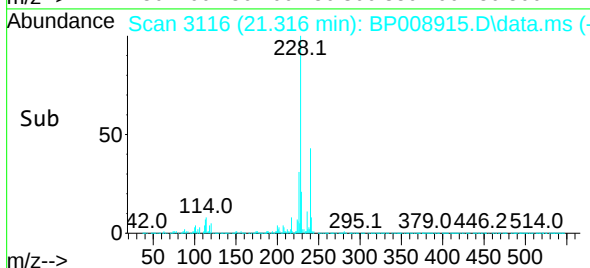
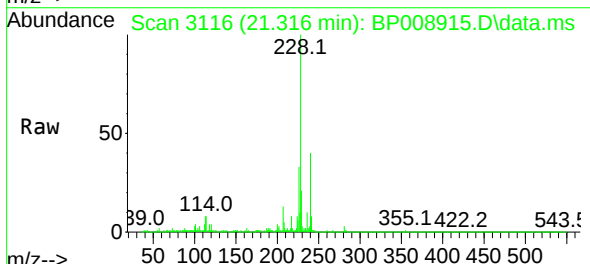
Manual Integrations
 APPROVED

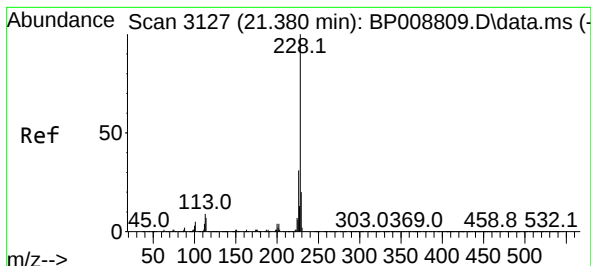
Reviewed By :Christian Giraldo 01/26/2022
 Supervised By :Jagrut Upadhyay 01/26/2022



#81
 Benzo(a)anthracene
 Concen: 14.025 ng
 RT: 21.316 min Scan# 3116
 Delta R.T. -0.006 min
 Lab File: BP008915.D
 Acq: 25 Jan 2022 19:22

Tgt Ion:228 Resp: 1260013
 Ion Ratio Lower Upper
 228 100
 226 33.0 23.3 34.9
 229 21.0 17.0 25.6





#83

Chrysene

Concen: 12.441 ng m

RT: 21.363 min Scan# 31

Delta R.T. -0.006 min

Lab File: BP008915.D

Acq: 25 Jan 2022 19:22

Instrument :

BNA_P

ClientSampleId :

SP25-07-20220119-29.5-30.0DL

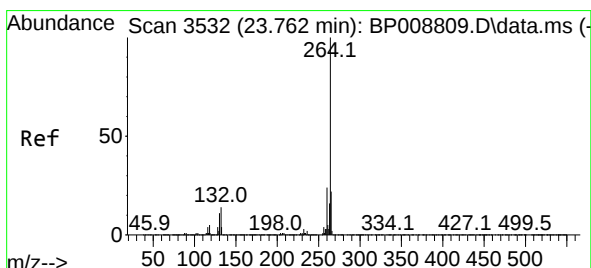
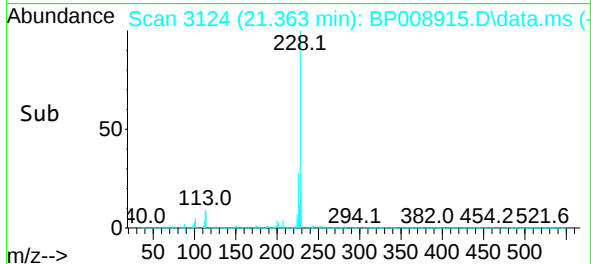
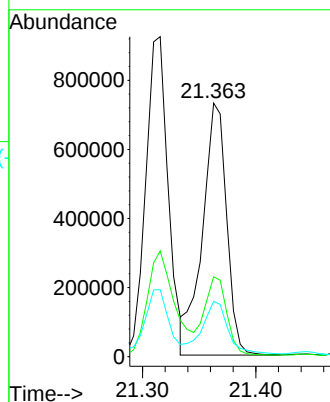
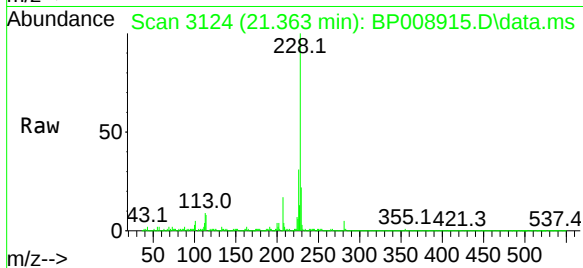
Tgt Ion:228 Resp: 108349

Ion	Ratio	Lower	Upper
228	100		
226	31.5	26.0	39.0
229	21.8	16.9	25.3

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022



#86

Perylene-d12

Concen: 20.000 ng

RT: 23.739 min Scan# 3528

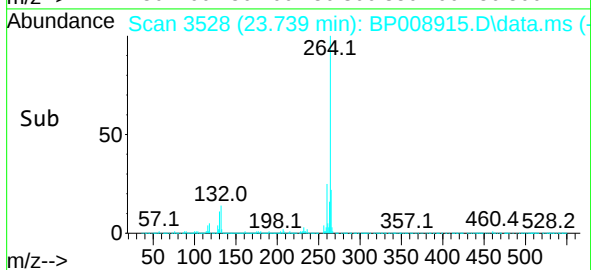
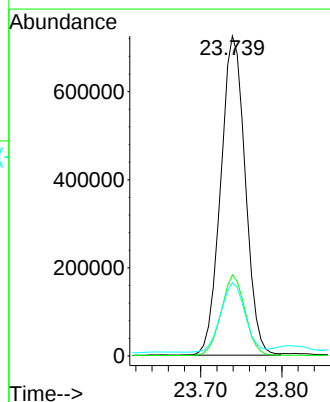
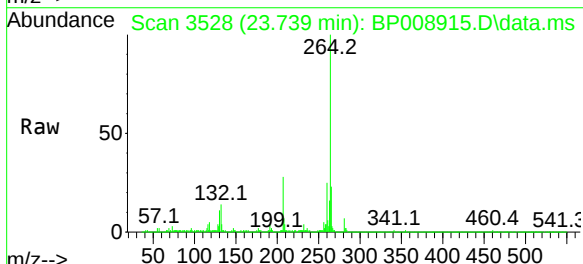
Delta R.T. -0.012 min

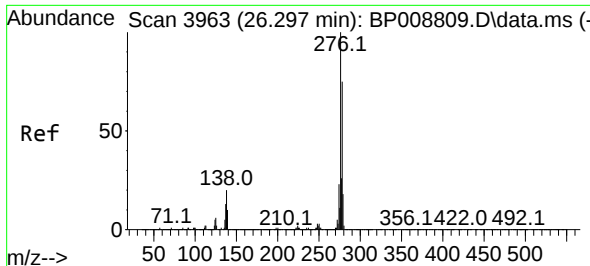
Lab File: BP008915.D

Acq: 25 Jan 2022 19:22

Tgt Ion:264 Resp: 1519352

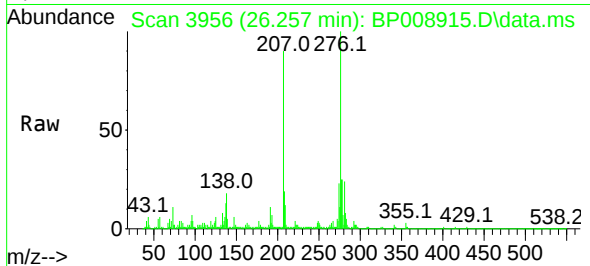
Ion	Ratio	Lower	Upper
264	100		
260	25.4	19.1	28.7
265	23.0	17.1	25.7





#87
Indeno(1,2,3-cd)pyrene
Concen: 5.404 ng
RT: 26.257 min Scan# 3963
Delta R.T. -0.023 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

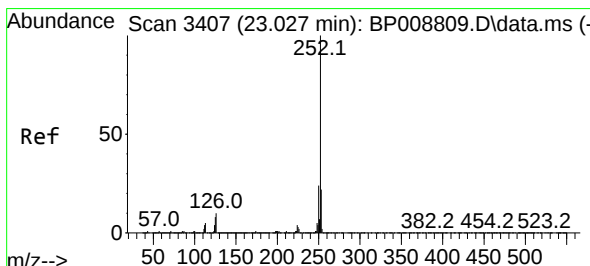
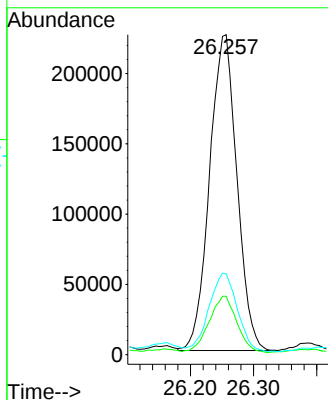
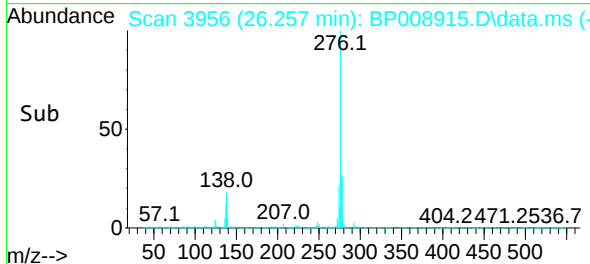
Instrument : BNA_P
ClientSampleId : SP25-07-20220119-29.5-30.0DL



Tgt Ion: 276 Resp: 67654
Ion Ratio Lower Upper
276 100
138 18.2 17.8 26.6
277 25.5 20.4 30.6

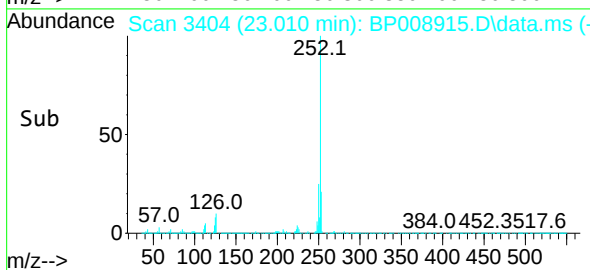
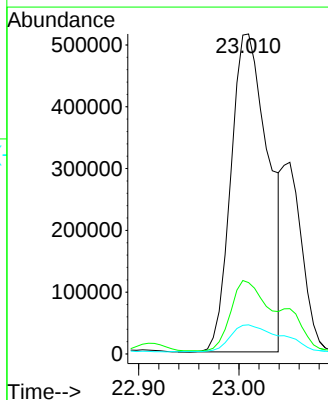
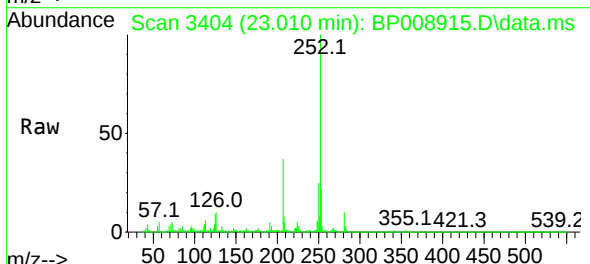
Manual Integrations
APPROVED

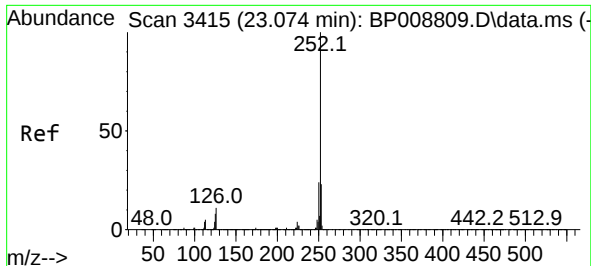
Reviewed By : Christian Giraldo 01/26/2022
Supervised By : Jagrut Upadhyay 01/26/2022



#88
Benzo(b)fluoranthene
Concen: 13.144 ng
RT: 23.010 min Scan# 3404
Delta R.T. -0.006 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

Tgt Ion: 252 Resp: 1333629
Ion Ratio Lower Upper
252 100
253 22.3 18.0 27.0
125 9.1 6.9 10.3





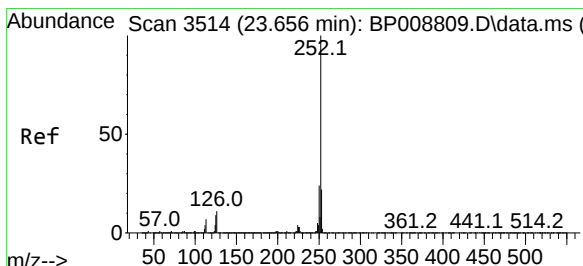
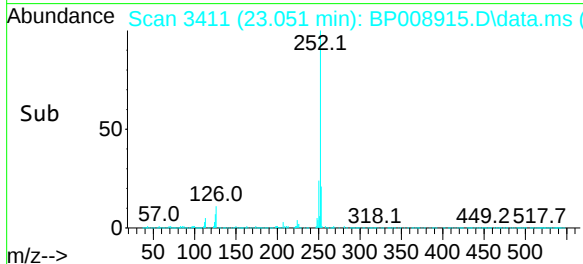
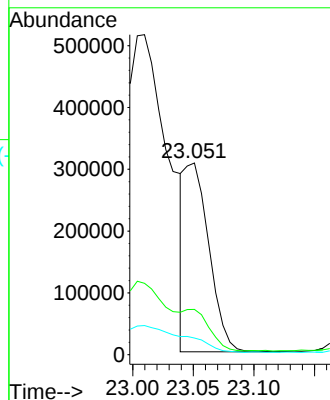
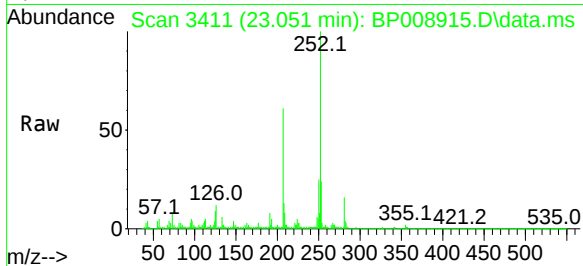
#89
Benzo(k)fluoranthene
Concen: 4.320 ng m
RT: 23.051 min Scan# 3415
Delta R.T. -0.012 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

Instrument : BNA_P
ClientSampleId : SP25-07-20220119-29.5-30.0DL

Tgt Ion:252 Resp: 42434
Ion Ratio Lower Upper
252 100
253 23.7 18.2 27.2
125 8.7 7.3 10.9

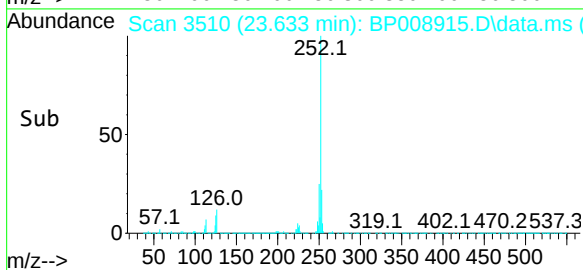
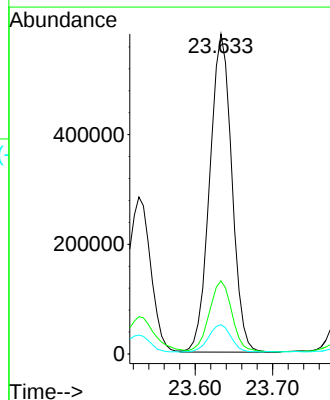
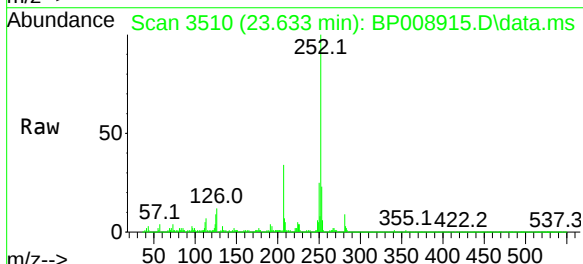
Manual Integrations
APPROVED

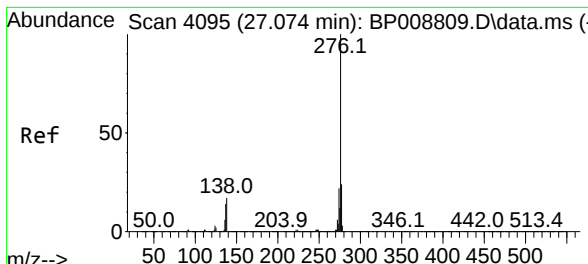
Reviewed By :Christian Giraldo 01/26/2022
Supervised By :Jagrut Upadhyay 01/26/2022



#90
Benzo(a)pyrene
Concen: 11.748 ng
RT: 23.633 min Scan# 3510
Delta R.T. -0.012 min
Lab File: BP008915.D
Acq: 25 Jan 2022 19:22

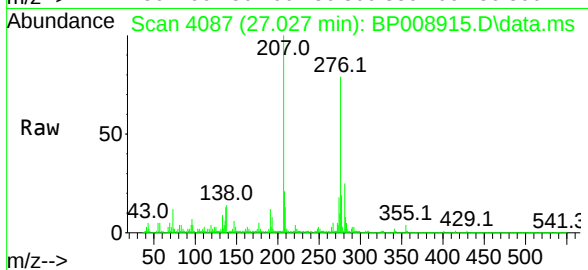
Tgt Ion:252 Resp: 1150553
Ion Ratio Lower Upper
252 100
253 22.8 17.8 26.8
125 9.2 7.8 11.6





#92
 Benzo(g,h,i)perylene
 Concen: 5.655 ng
 RT: 27.027 min Scan# 4087
 Delta R.T. -0.023 min
 Lab File: BP008915.D
 Acq: 25 Jan 2022 19:22

Instrument : BNA_P
 ClientSampleId : SP25-07-20220119-29.5-30.0DL



Tgt Ion: 276 Resp: 587830
 Ion Ratio Lower Upper
 276 100
 277 24.6 19.2 28.8
 138 17.6 15.0 22.4

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 01/26/2022
 Supervised By : Jagrut Upadhyay 01/26/2022

