

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012723\
 Data File : BP013638.D
 Acq On : 28 Jan 2023 02:48
 Operator : CG/JU
 Sample : 01322-01
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 EO-01-1-26-2023

Manual Integrations
 APPROVED

Reviewed By :Christian Giraldo 01/30/2023
 Supervised By :Jagrut Upadhyay 01/30/2023

Quant Time: Jan 29 23:57:53 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP012623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 27 03:27:54 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	8.158	152	187419	20.000	ng	0.00
21) Naphthalene-d8	10.987	136	671277	20.000	ng	0.00
39) Acenaphthene-d10	14.793	164	416862	20.000	ng	0.00
64) Phenanthrene-d10	17.551	188	922706	20.000	ng	0.00
76) Chrysene-d12	21.639	240	925484	20.000	ng	0.00
86) Perylene-d12	24.239	264	1124217	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.687	112	970392	92.782	ng	0.00
7) Phenol-d6	7.299	99	1264407	89.492	ng	0.00
23) Nitrobenzene-d5	9.328	82	712919	58.356	ng	0.00
42) 2,4,6-Tribromophenol	16.287	330	586503	92.411	ng	0.00
45) 2-Fluorobiphenyl	13.416	172	1760940	60.332	ng	0.00
79) Terphenyl-d14	20.086	244	2679179	51.084	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.034	128	109098	3.198	ng	98
37) 2-Methylnaphthalene	12.634	142	239239	9.177	ng	99
38) 1-Methylnaphthalene	12.852	142	246857	10.117	ng	95
49) Acenaphthylene	14.522	152	732108	18.723	ng	98
52) Acenaphthene	14.857	154	89069	3.559	ng	98
55) Dibenzofuran	15.187	168	132800	3.388	ng	# 69
58) Fluorene	15.840	166	508009	16.949	ng	99
71) Phenanthrene	17.598	178	5412687	114.377	ng	99
72) Anthracene	17.687	178	1653784	34.585	ng	100
73) Carbazole	17.945	167	254119	5.964	ng	98
75) Fluoranthene	19.545	202	3723328	63.081	ng	98
78) Pyrene	19.904	202	6284680	87.743	ng	99
81) Benzo(a)anthracene	21.622	228	2918877	44.788	ng	96
83) Chrysene	21.680	228	2693422	43.985	ng	99
87) Indeno(1,2,3-cd)pyrene	26.980	276	1045315	13.226	ng	96
88) Benzo(b)fluoranthene	23.445	252	2064155m	28.599	ng	
89) Benzo(k)fluoranthene	23.480	252	639348m	8.923	ng	
90) Benzo(a)pyrene	24.121	252	2079048	30.604	ng	98
91) Dibenzo(a,h)anthracene	26.986	278	373874	5.685	ng	# 91
92) Benzo(g,h,i)perylene	27.839	276	1384079	21.374	ng	97

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

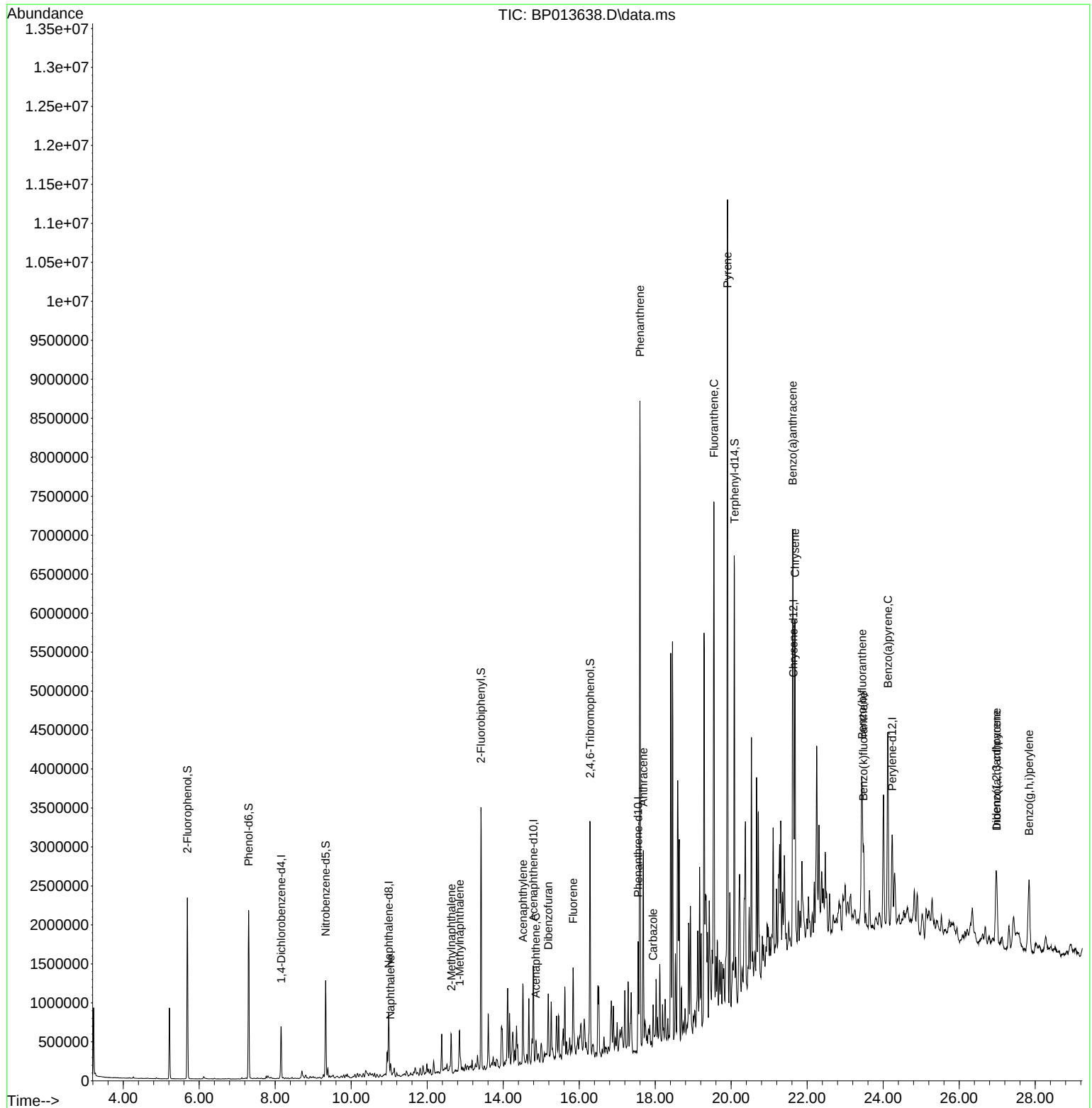
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP012723\
Data File : BP013638.D
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ALS Vial : 21 Sample Multiplier: 1

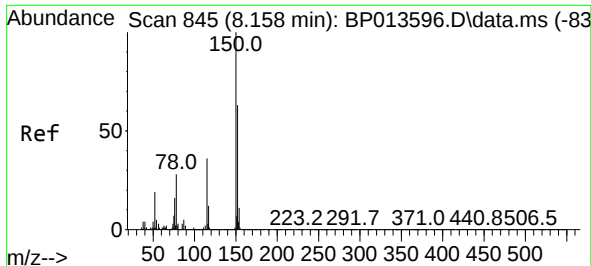
Instrument :
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Quant Time: Jan 29 23:57:53 2023
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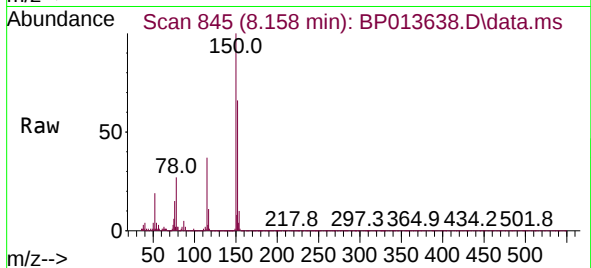
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.158 min Scan# 845
Delta R.T. -0.000 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

Instrument :

BNA_P

ClientSampleId :

EO-01-1-26-2023

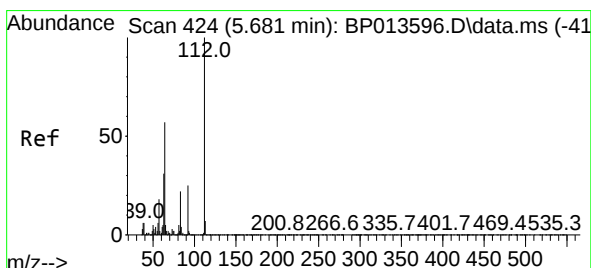
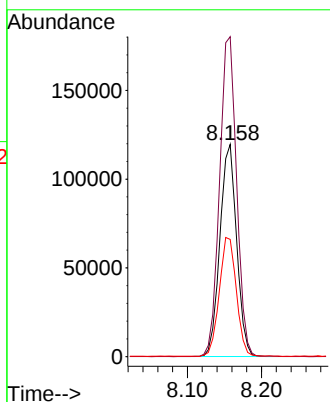
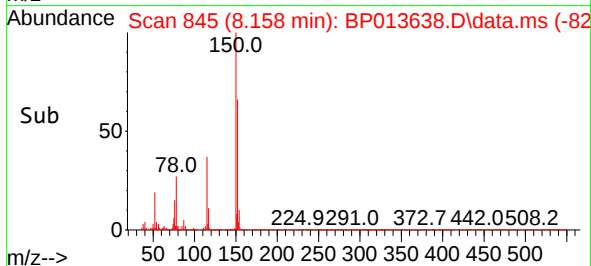


Tgt Ion:152 Resp: 187419
Ion Ratio Lower Upper
152 100
150 150.7 126.2 189.2
115 55.2 45.1 67.7

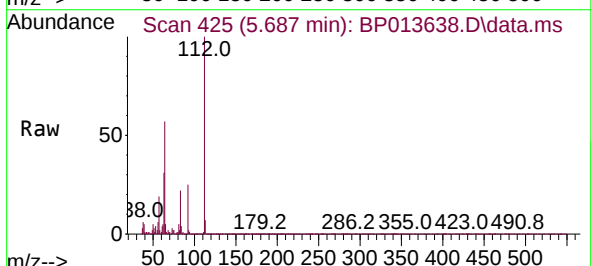
Manual Integrations

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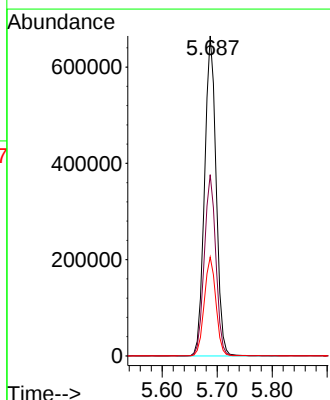
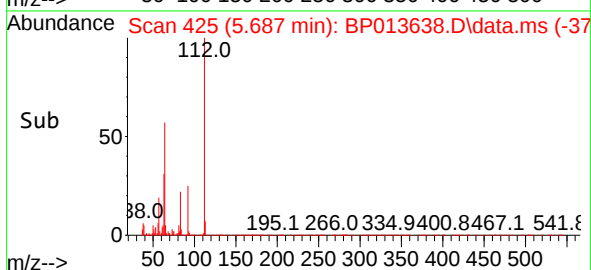
Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023

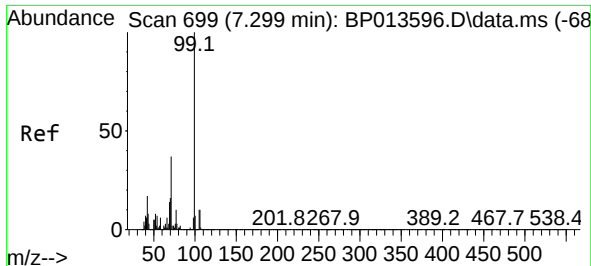


#5
2-Fluorophenol
Concen: 92.782 ng
RT: 5.687 min Scan# 425
Delta R.T. 0.006 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48



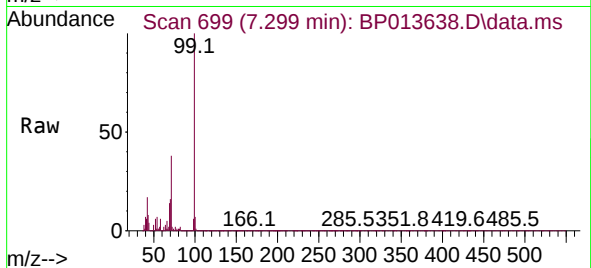
Tgt Ion:112 Resp: 970392
Ion Ratio Lower Upper
112 100
64 56.7 45.5 68.3
63 30.9 25.1 37.7





#7
Phenol-d6
Concen: 89.492 ng
RT: 7.299 min Scan# 699
Delta R.T. 0.000 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

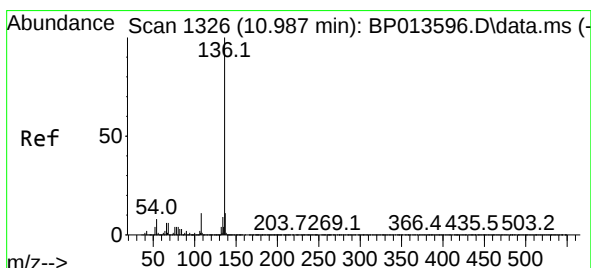
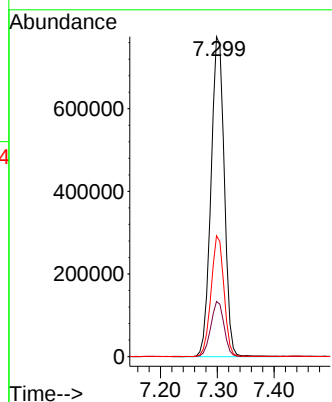
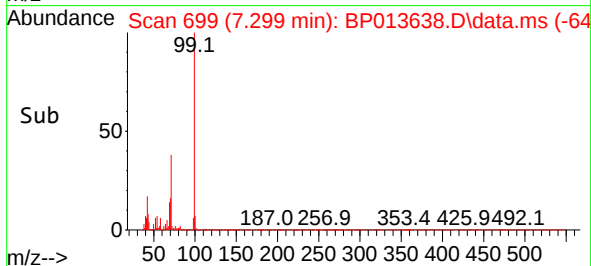
Instrument :
BNA_P
ClientSampleId :
EO-01-1-26-2023



Tgt Ion: 99 Resp: 126440
Ion Ratio Lower Upper
99 100
42 17.2 13.4 20.2
71 37.8 29.9 44.9

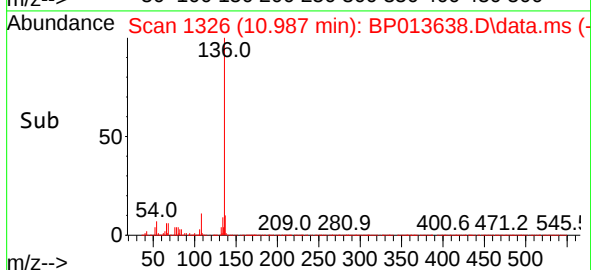
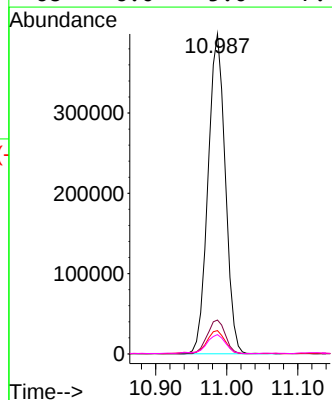
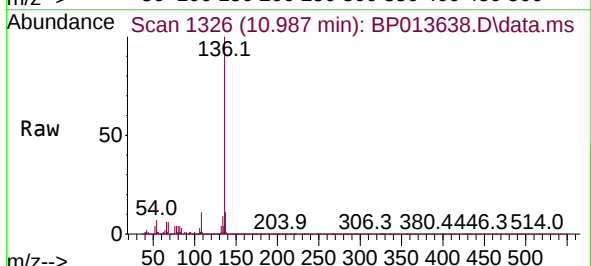
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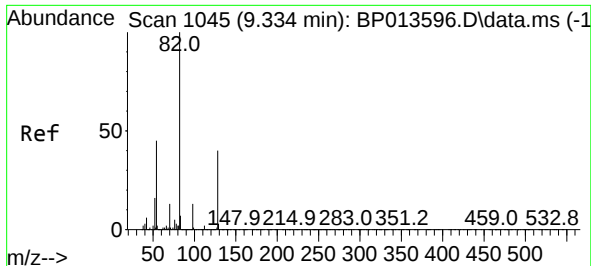
Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.987 min Scan# 1326
Delta R.T. 0.000 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

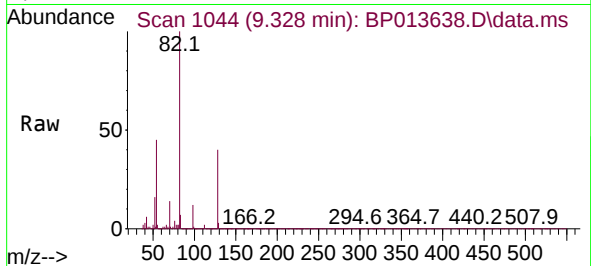
Tgt Ion:136 Resp: 671277
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 7.3 6.1 9.1
68 6.0 5.0 7.4





#23
Nitrobenzene-d5
Concen: 58.356 ng
RT: 9.328 min Scan# 1044
Delta R.T. -0.006 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

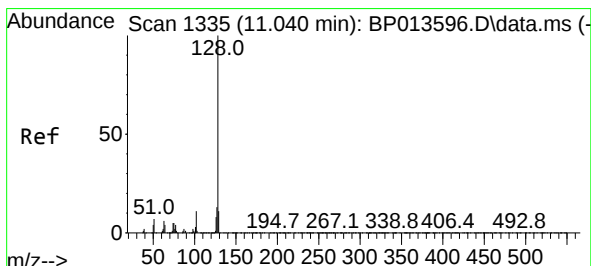
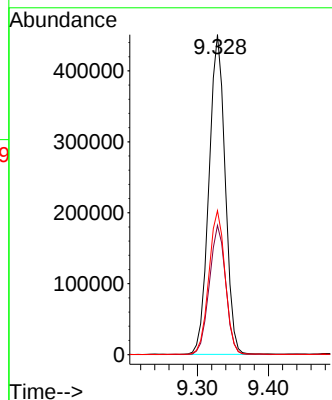
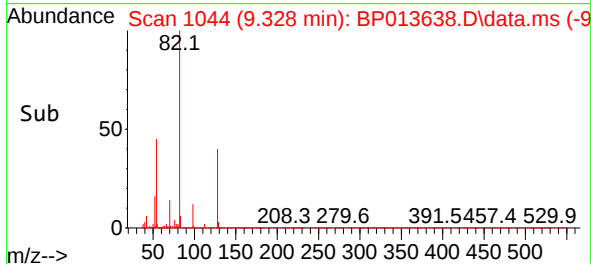
Instrument :
BNA_P
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EO-01-1-26-2023



Tgt Ion: 82 Resp: 712919
Ion Ratio Lower Upper
82 100
128 40.4 31.8 47.8
54 45.0 36.2 54.2

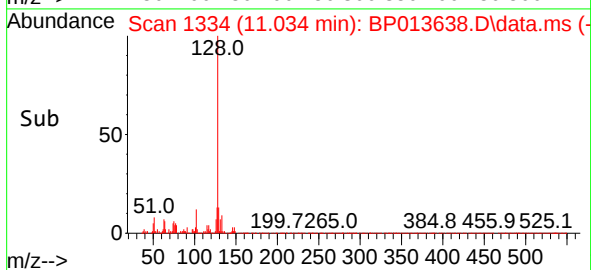
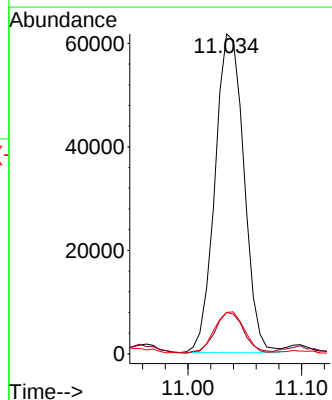
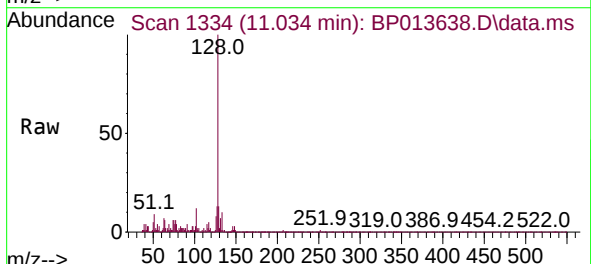
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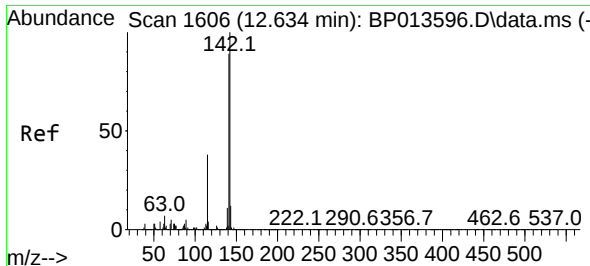
Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023



#31
Naphthalene
Concen: 3.198 ng
RT: 11.034 min Scan# 1334
Delta R.T. -0.006 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

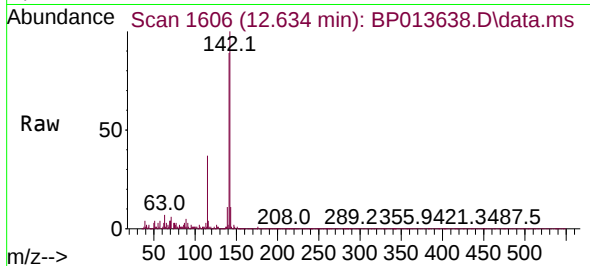
Tgt Ion:128 Resp: 109098
Ion Ratio Lower Upper
128 100
129 13.0 8.9 13.3
127 13.0 10.4 15.6





#37
2-Methylnaphthalene
Concen: 9.177 ng
RT: 12.634 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

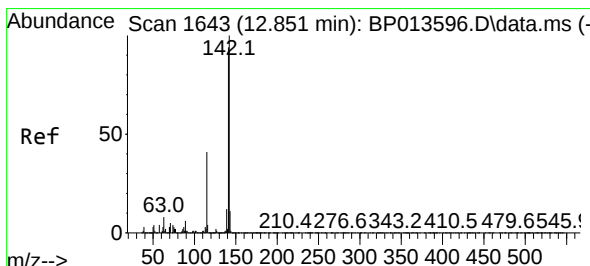
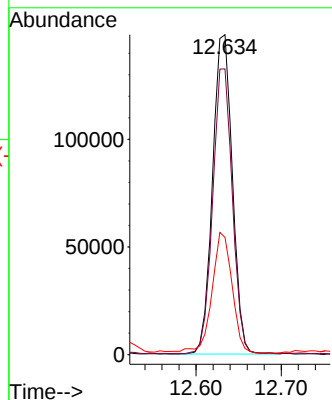
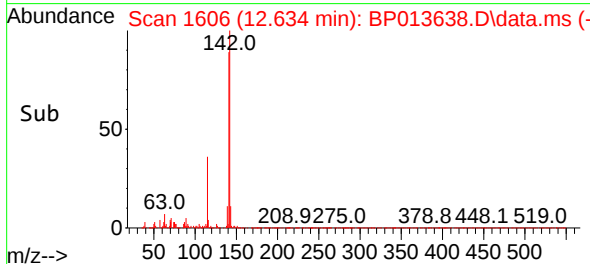
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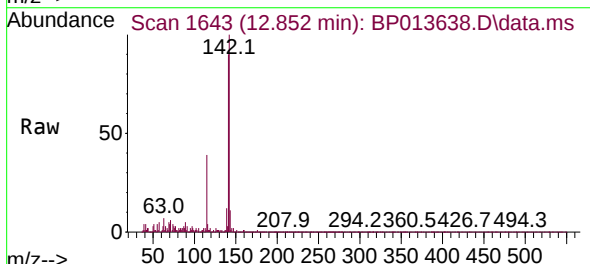
Tgt Ion:142 Resp: 239239
Ion Ratio Lower Upper
142 100
141 89.3 70.8 106.2
115 36.6 30.6 46.0

Manual Integrations
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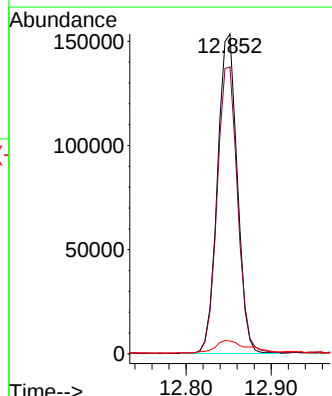
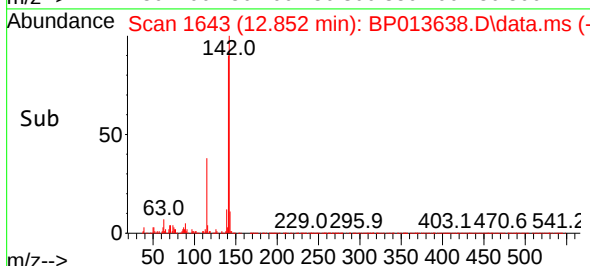
Reviewed By :Christian Giraldo 01/30/2023
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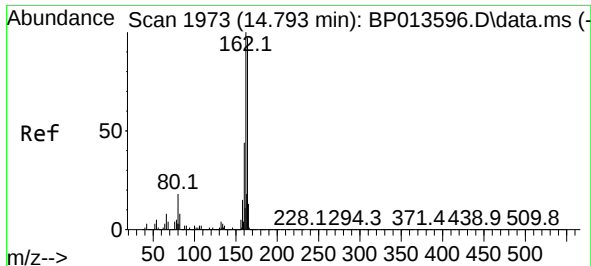


#38
1-Methylnaphthalene
Concen: 10.117 ng
RT: 12.852 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48



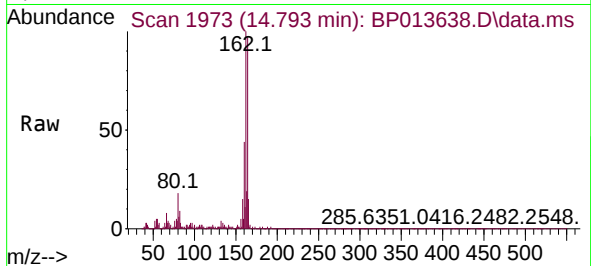
Tgt Ion:142 Resp: 246857
Ion Ratio Lower Upper
142 100
141 89.7 75.5 113.3
116 4.0 3.3 4.9





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.793 min Scan# 1973
Delta R.T. 0.000 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

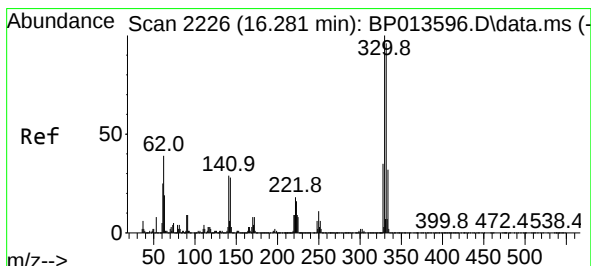
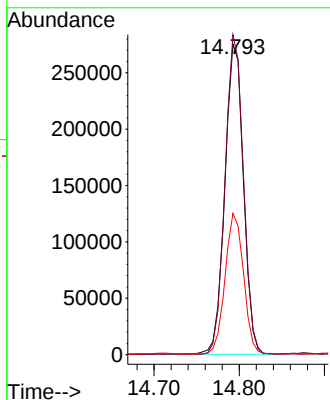
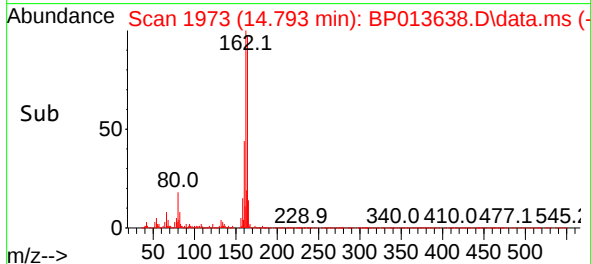
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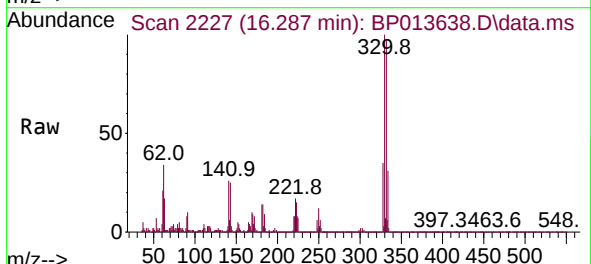
Tgt Ion:164 Resp: 416862
Ion Ratio Lower Upper
164 100
162 103.0 82.3 123.5
160 45.5 36.6 54.8

Manual Integrations
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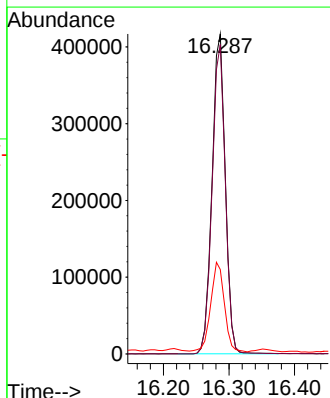
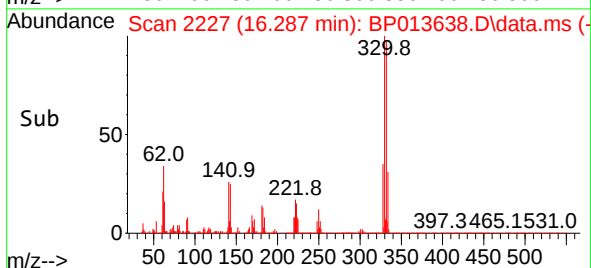
Reviewed By :Christian Giraldo 01/30/2023
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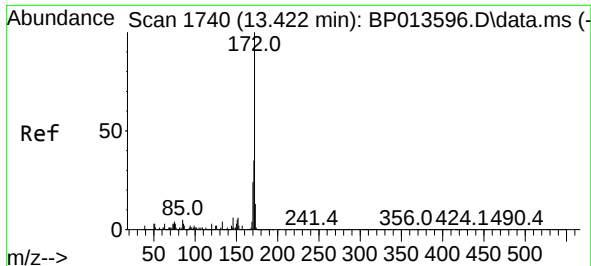


#42
2,4,6-Tribromophenol
Concen: 92.411 ng
RT: 16.287 min Scan# 2227
Delta R.T. 0.006 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48



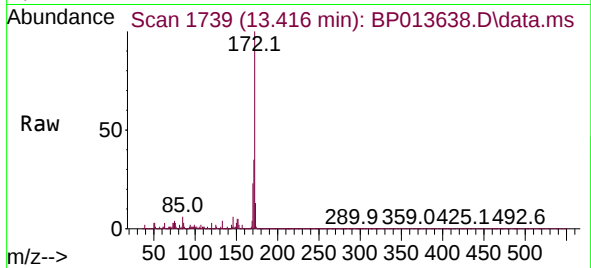
Tgt Ion:330 Resp: 586503
Ion Ratio Lower Upper
330 100
332 96.6 77.0 115.4
141 28.8 23.3 34.9





#45
2-Fluorobiphenyl
Concen: 60.332 ng
RT: 13.416 min Scan# 1739
Delta R.T. -0.006 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

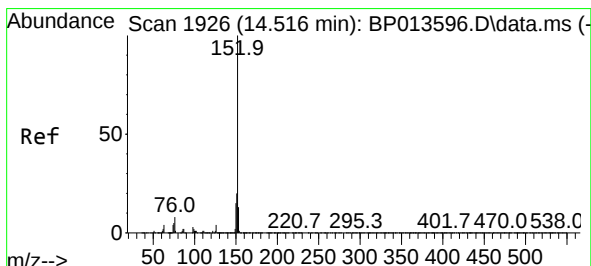
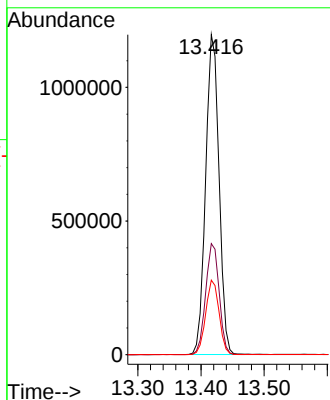
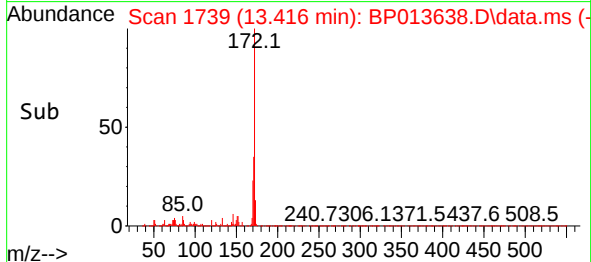
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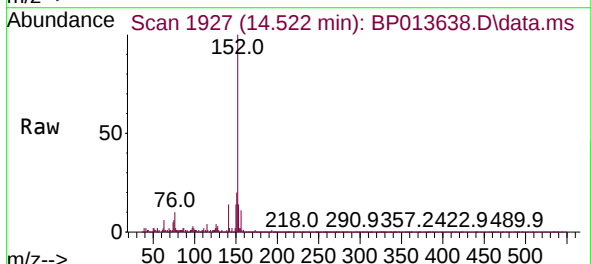
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Ion Ratio Lower Upper
172 100
171 34.7 28.2 42.4
170 23.3 19.1 28.7

Manual Integrations
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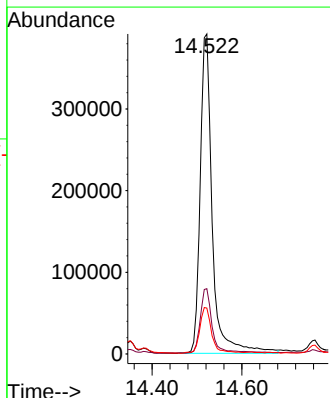
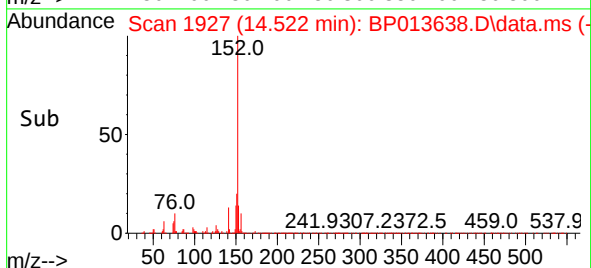
Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023

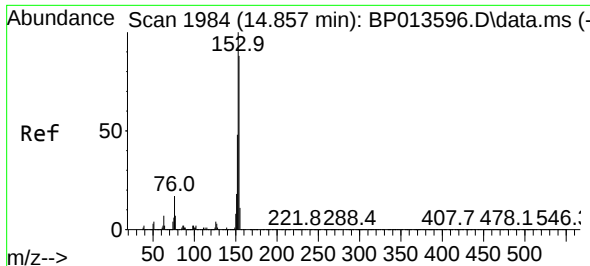


#49
Acenaphthylene
Concen: 18.723 ng
RT: 14.522 min Scan# 1927
Delta R.T. 0.006 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48



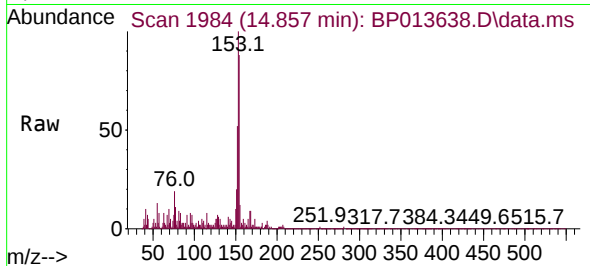
Tgt Ion:152 Resp: 732108
Ion Ratio Lower Upper
152 100
151 20.4 16.0 24.0
153 14.3 10.6 16.0





#52
Acenaphthene
Concen: 3.559 ng
RT: 14.857 min Scan# 1984
Delta R.T. 0.000 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

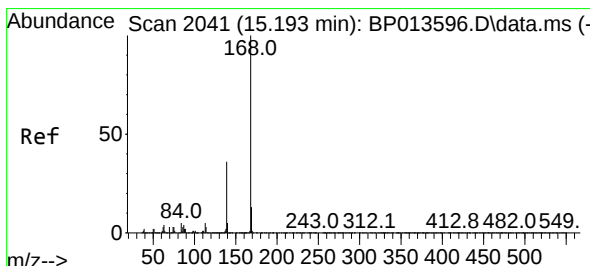
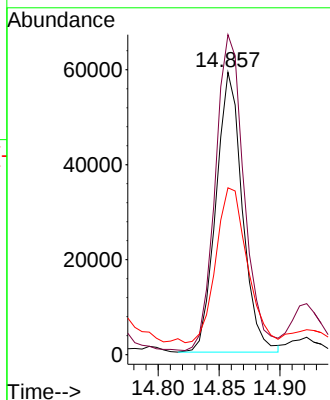
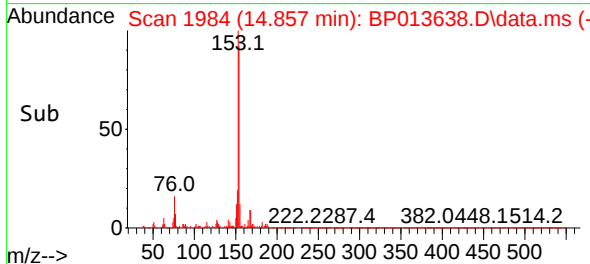
Instrument :
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ClientSampleId :
EO-01-1-26-2023



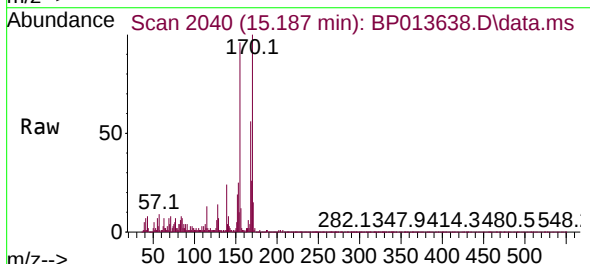
Tgt Ion:154 Resp: 89069
Ion Ratio Lower Upper
154 100
153 113.3 91.0 136.6
152 59.1 44.0 66.0

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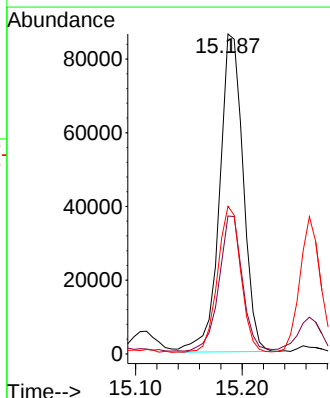
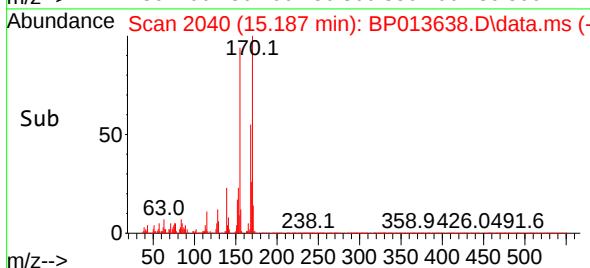
Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023

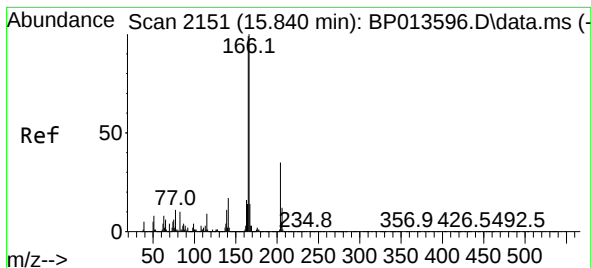


#55
Dibenzofuran
Concen: 3.388 ng
RT: 15.187 min Scan# 2040
Delta R.T. -0.006 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48



Tgt Ion:168 Resp: 132800
Ion Ratio Lower Upper
168 100
139 43.1 29.0 43.4
169 46.1 10.6 15.8#





#58

Fluorene

Concen: 16.949 ng

RT: 15.840 min Scan# 2151

Delta R.T. 0.000 min

Lab File: BP013638.D

Acq: 28 Jan 2023 02:48

Instrument :

BNA_P

ClientSampleId :

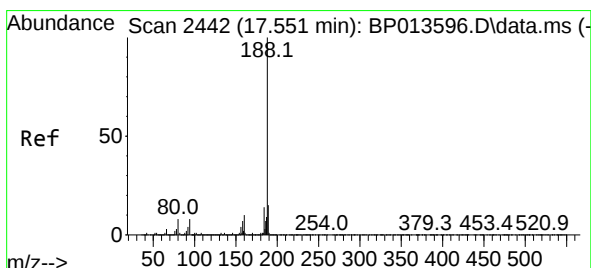
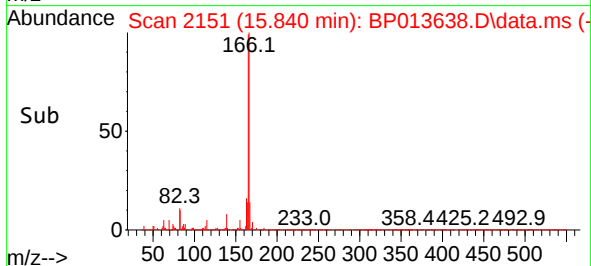
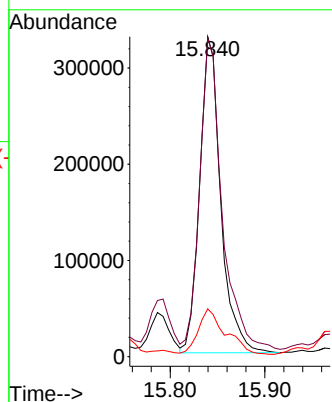
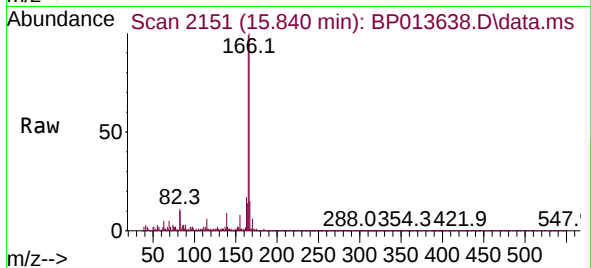
EO-01-1-26-2023

Tgt Ion:	166	Resp:	508009
Ion Ratio	Lower	Upper	
166	100		
165	99.5	79.4	119.0
167	14.9	10.9	16.3

Manual Integrations

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Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023



#64

Phenanthrene-d10

Concen: 20.000 ng

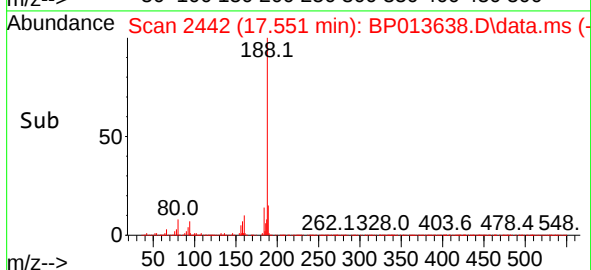
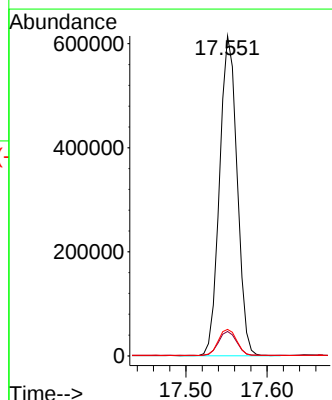
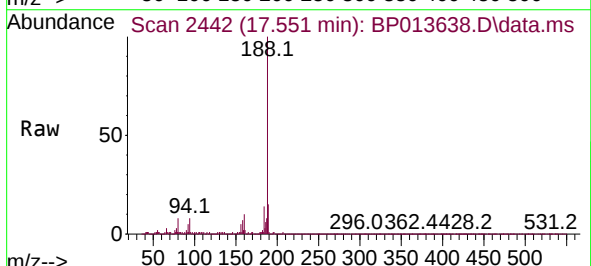
RT: 17.551 min Scan# 2442

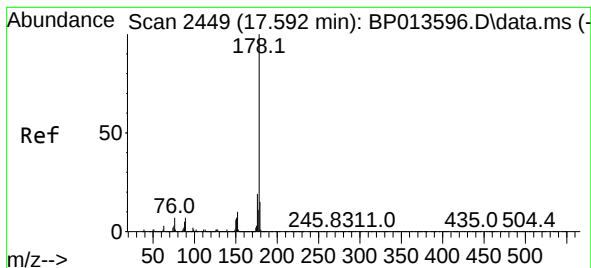
Delta R.T. 0.000 min

Lab File: BP013638.D

Acq: 28 Jan 2023 02:48

Tgt Ion:	188	Resp:	922706
Ion Ratio	Lower	Upper	
188	100		
94	7.7	6.1	9.1
80	8.3	6.6	10.0





#71

Phenanthrene

Concen: 114.377 ng

RT: 17.598 min Scan# 2449

Delta R.T. 0.006 min

Lab File: BP013638.D

Acq: 28 Jan 2023 02:48

Instrument :

BNP_P

ClientSampleId :

EO-01-1-26-2023

Tgt Ion:178 Resp: 541268

Ion Ratio Lower Upper

178 100

176 19.8 15.3 22.9

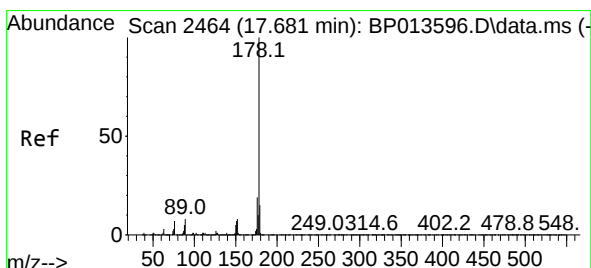
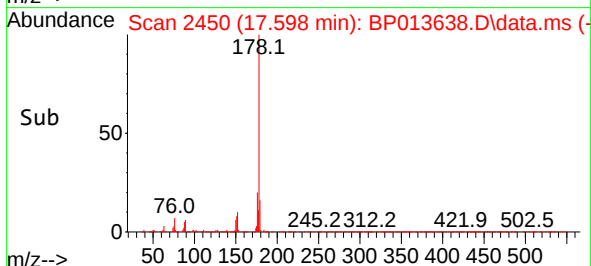
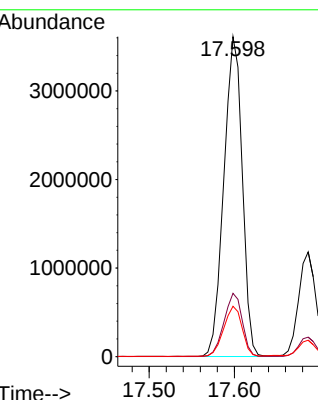
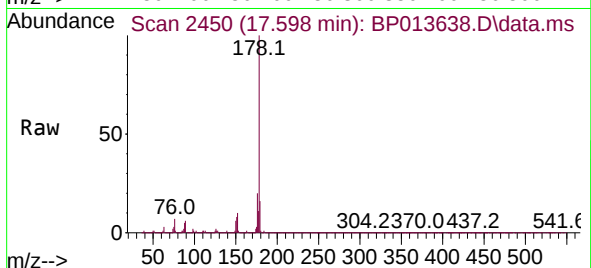
179 15.7 12.2 18.4

Manual Integrations

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Reviewed By :Christian Giraldo 01/30/2023

Supervised By :Jagrut Upadhyay 01/30/2023



#72

Anthracene

Concen: 34.585 ng

RT: 17.687 min Scan# 2465

Delta R.T. 0.006 min

Lab File: BP013638.D

Acq: 28 Jan 2023 02:48

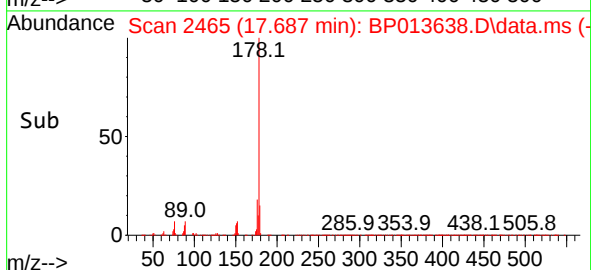
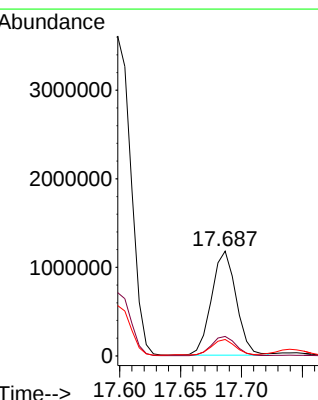
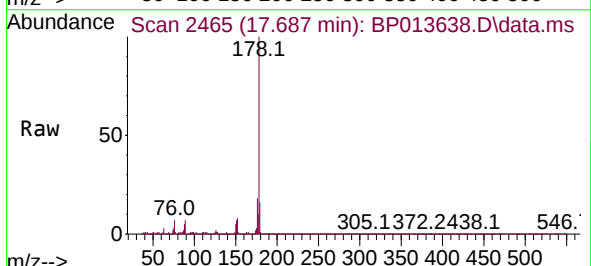
Tgt Ion:178 Resp: 1653784

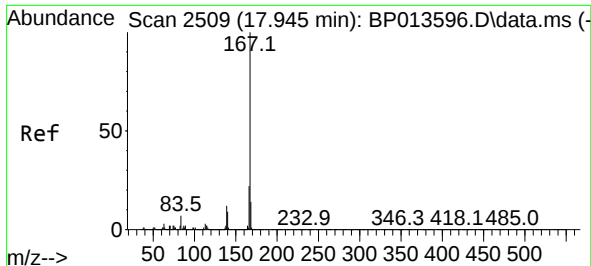
Ion Ratio Lower Upper

178 100

176 18.5 15.0 22.4

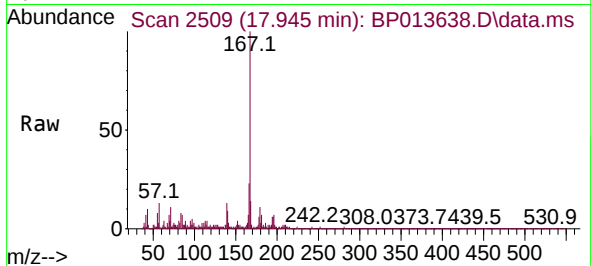
179 15.6 12.3 18.5





#73
 Carbazole
 Concen: 5.964 ng
 RT: 17.945 min Scan# 2509
 Delta R.T. 0.000 min
 Lab File: BP013638.D
 Acq: 28 Jan 2023 02:48

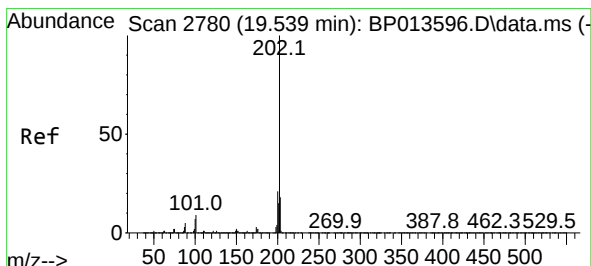
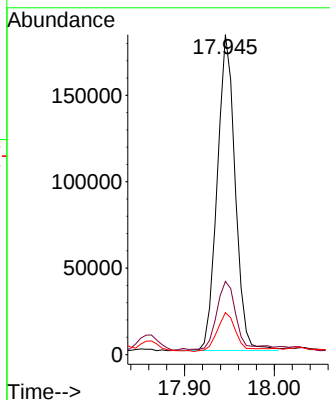
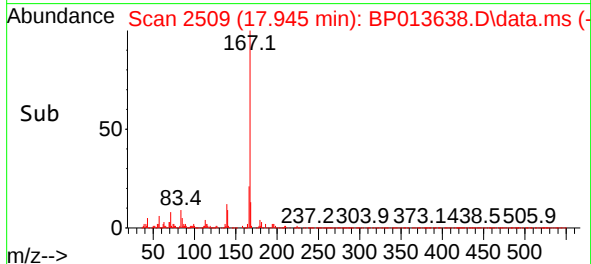
Instrument :
 BNA_P
 ClientSampleId :
 EO-01-1-26-2023



Tgt Ion:167 Resp: 254119
 Ion Ratio Lower Upper
 167 100
 166 22.9 17.4 26.2
 139 13.1 9.8 14.6

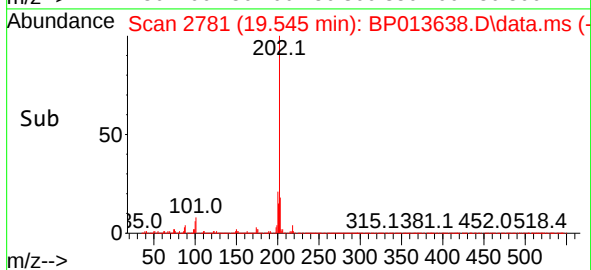
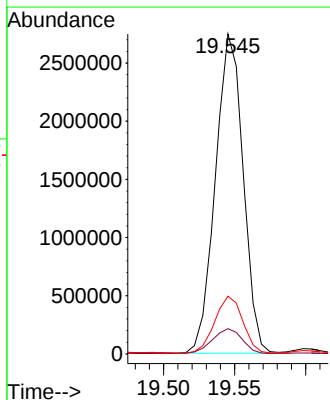
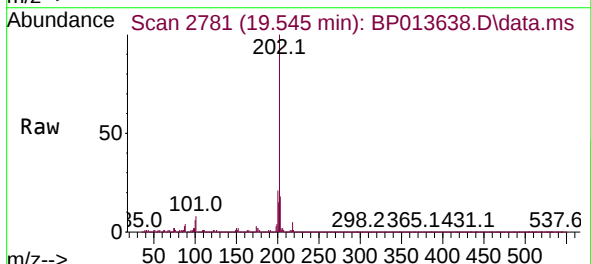
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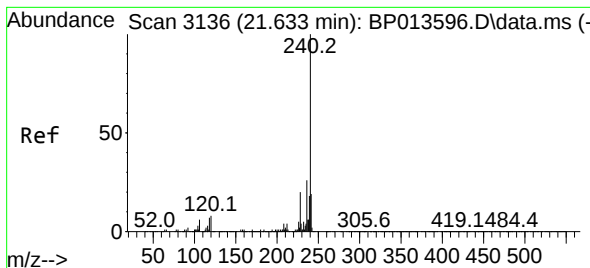
Reviewed By :Christian Giraldo 01/30/2023
 Supervised By :Jagrut Upadhyay 01/30/2023



#75
 Fluoranthene
 Concen: 63.081 ng
 RT: 19.545 min Scan# 2781
 Delta R.T. 0.006 min
 Lab File: BP013638.D
 Acq: 28 Jan 2023 02:48

Tgt Ion:202 Resp: 3723328
 Ion Ratio Lower Upper
 202 100
 101 7.9 0.0 28.9
 203 18.0 0.0 37.6





#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.639 min Scan# 3136

Delta R.T. 0.006 min

Lab File: BP013638.D

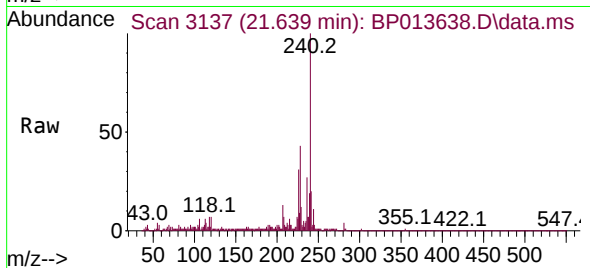
Acq: 28 Jan 2023 02:48

Instrument :

BNA_P

ClientSampleId :

EO-01-1-26-2023



Tgt Ion:240 Resp: 925484

Ion Ratio Lower Upper

240 100

120 7.2 6.7 10.1

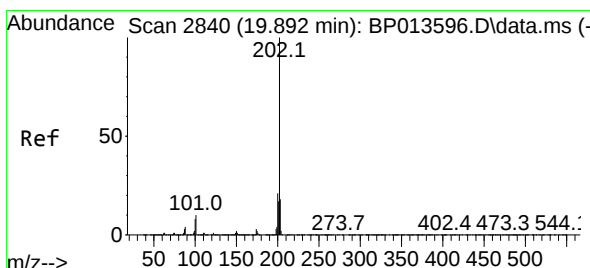
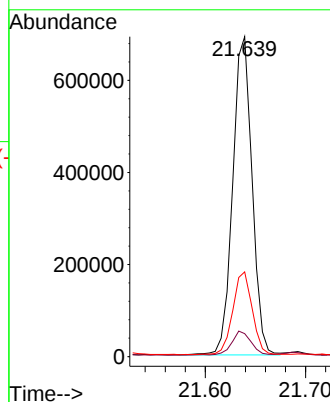
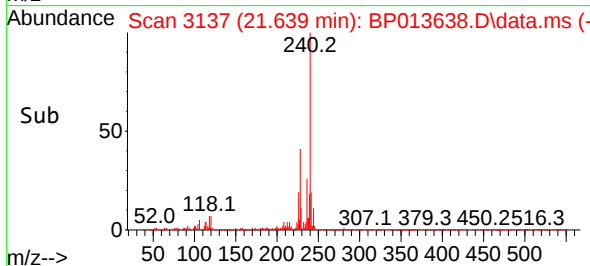
236 26.5 20.7 31.1

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Reviewed By :Christian Giraldo 01/30/2023

Supervised By :Jagrut Upadhyay 01/30/2023



#78

Pyrene

Concen: 87.743 ng

RT: 19.904 min Scan# 2842

Delta R.T. 0.012 min

Lab File: BP013638.D

Acq: 28 Jan 2023 02:48

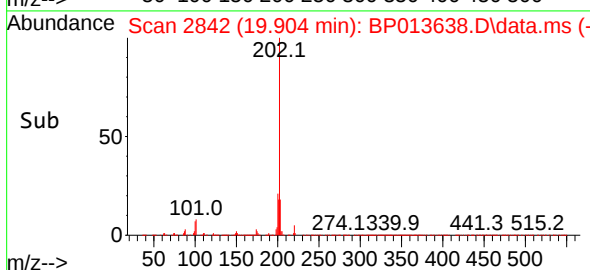
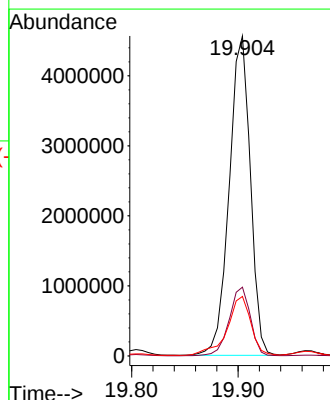
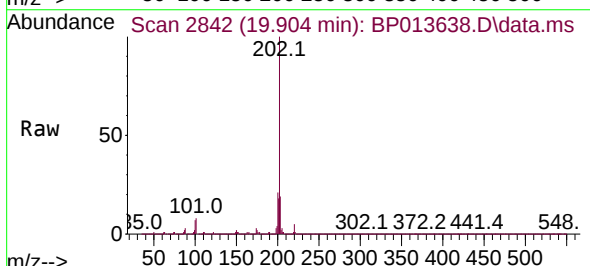
Tgt Ion:202 Resp: 6284680

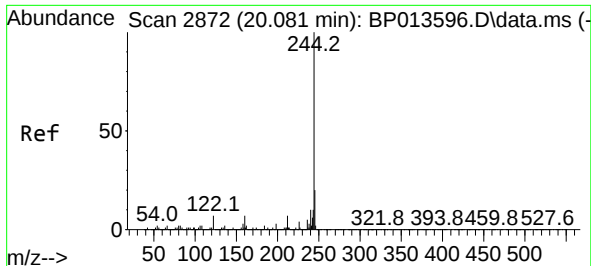
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

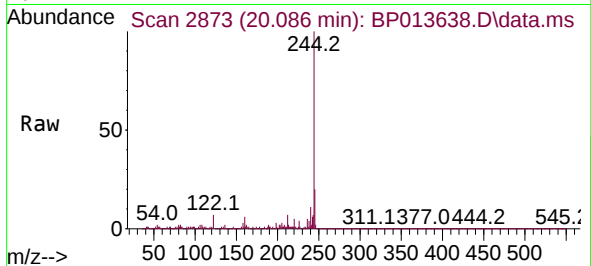
203 18.6 14.2 21.2





#79
 Terphenyl-d14
 Concen: 51.084 ng
 RT: 20.086 min Scan# 2872
 Delta R.T. 0.006 min
 Lab File: BP013638.D
 Acq: 28 Jan 2023 02:48

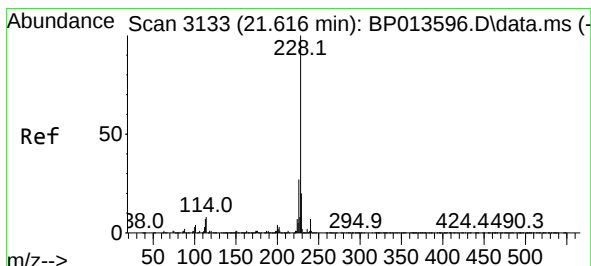
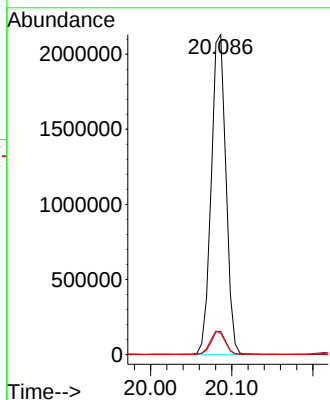
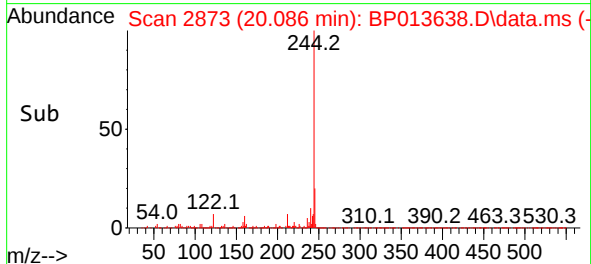
Instrument :
 BNA_P
 ClientSampleId :
 EO-01-1-26-2023



Tgt Ion:244 Resp: 2679179
 Ion Ratio Lower Upper
 244 100
 212 7.3 5.9 8.9
 122 6.6 5.3 7.9

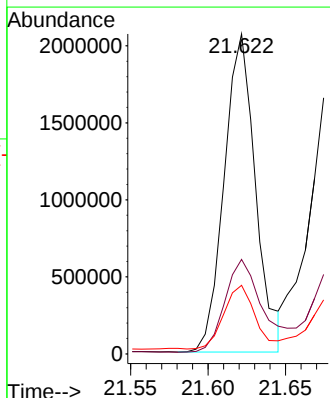
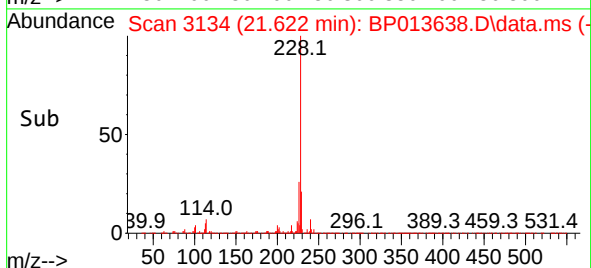
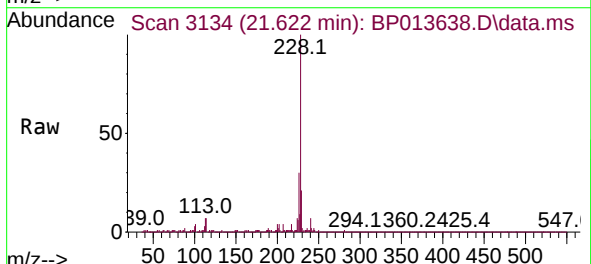
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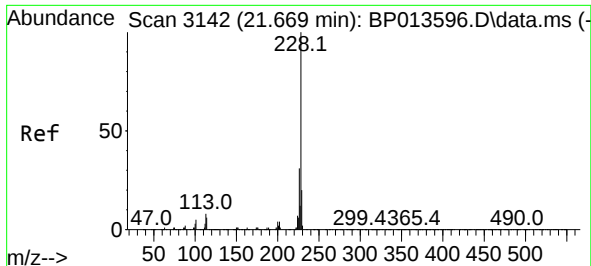
Reviewed By :Christian Giraldo 01/30/2023
 Supervised By :Jagrut Upadhyay 01/30/2023



#81
 Benzo(a)anthracene
 Concen: 44.788 ng
 RT: 21.622 min Scan# 3134
 Delta R.T. 0.006 min
 Lab File: BP013638.D
 Acq: 28 Jan 2023 02:48

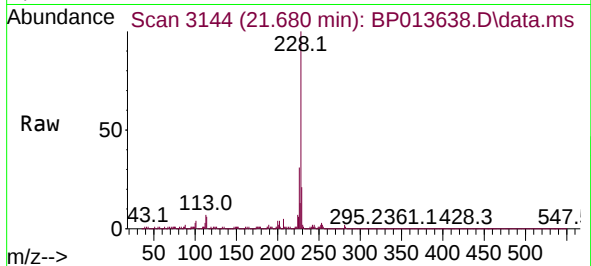
Tgt Ion:228 Resp: 2918877
 Ion Ratio Lower Upper
 228 100
 226 29.5 22.0 33.0
 229 21.4 15.9 23.9





#83
Chrysene
Concen: 43.985 ng
RT: 21.680 min Scan# 3142
Delta R.T. 0.011 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

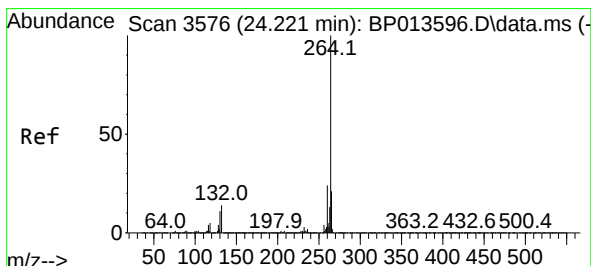
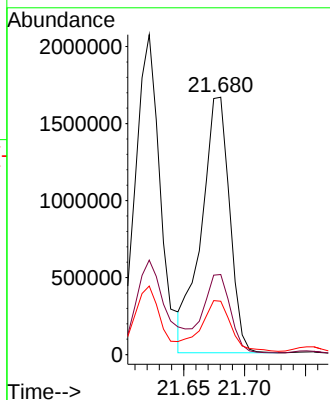
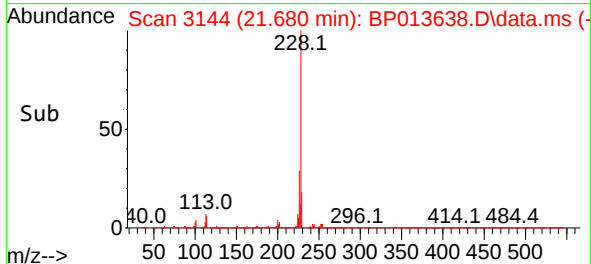
Instrument :
BNA_P
ClientSampleId :
EO-01-1-26-2023



Tgt Ion:228 Resp: 2693422
Ion Ratio Lower Upper
228 100
226 31.1 24.8 37.2
229 20.8 15.8 23.8

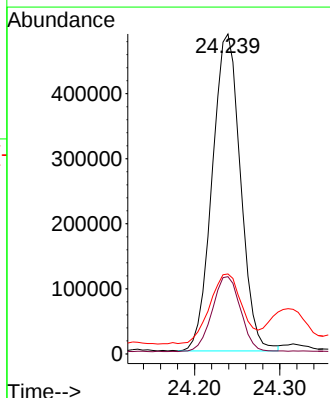
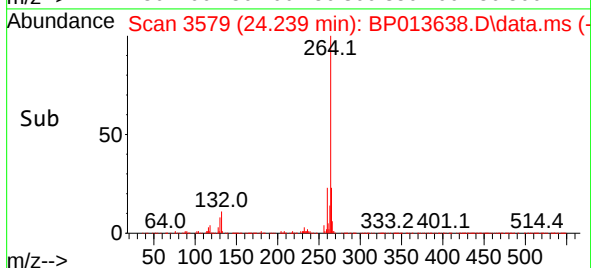
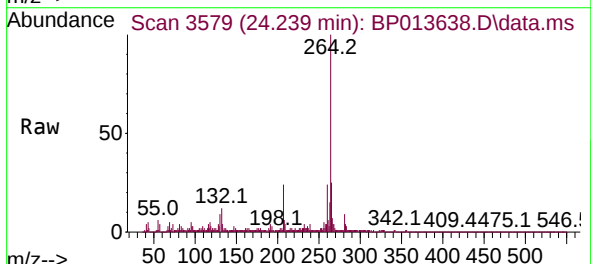
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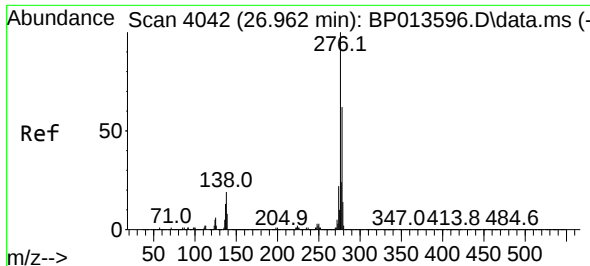
Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 24.239 min Scan# 3579
Delta R.T. 0.018 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

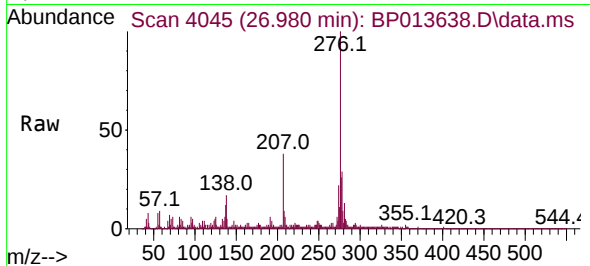
Tgt Ion:264 Resp: 1124217
Ion Ratio Lower Upper
264 100
260 24.1 18.8 28.2
265 25.0 17.4 26.0





#87
Indeno(1,2,3-cd)pyrene
Concen: 13.226 ng
RT: 26.980 min Scan# 4042
Delta R.T. 0.018 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

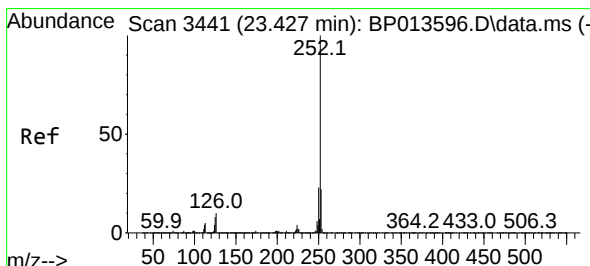
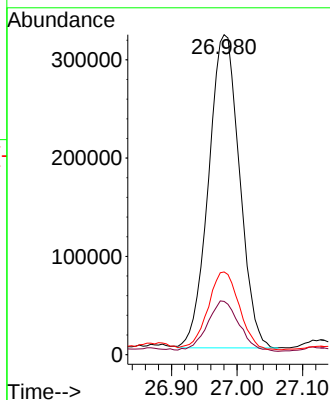
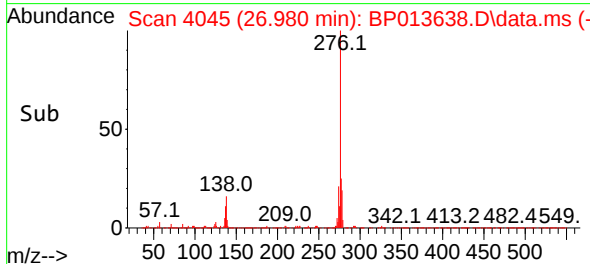
Instrument :
BNA_P
ClientSampleId :
EO-01-1-26-2023



Tgt Ion:276 Resp: 1045315
Ion Ratio Lower Upper
276 100
138 16.6 16.4 24.6
277 25.4 20.2 30.2

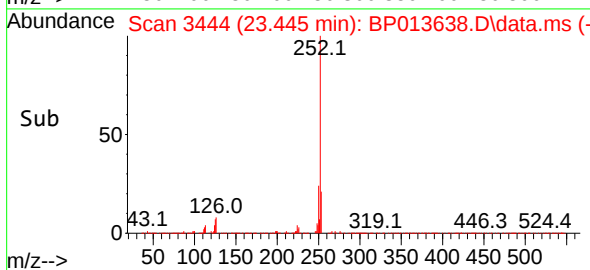
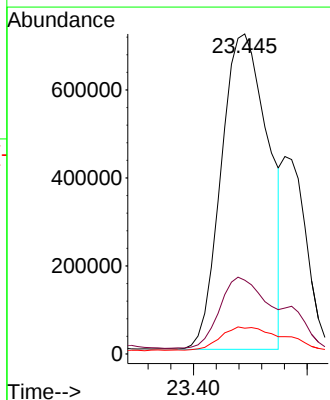
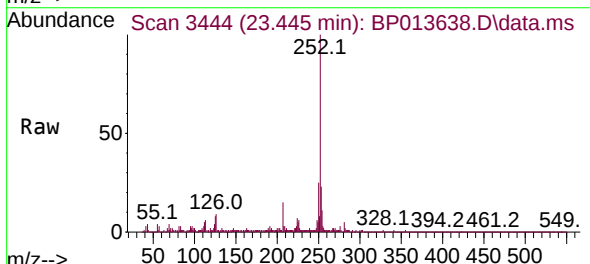
Manual Integrations
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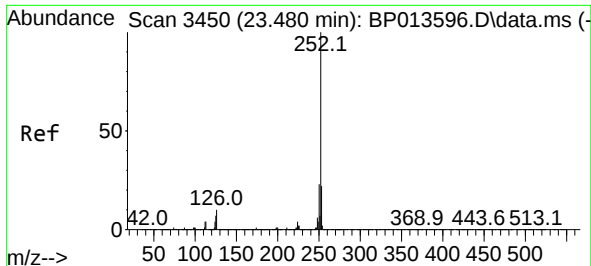
Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023



#88
Benzo(b)fluoranthene
Concen: 28.599 ng m
RT: 23.445 min Scan# 3444
Delta R.T. 0.018 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

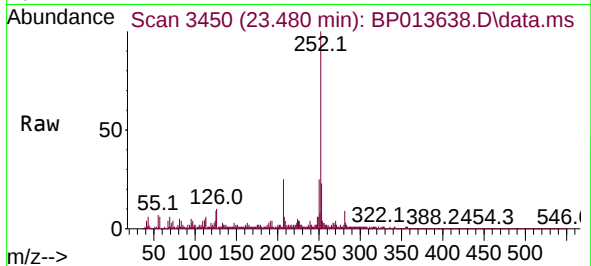
Tgt Ion:252 Resp: 2064155
Ion Ratio Lower Upper
252 100
253 23.0 17.8 26.8
125 8.1 6.2 9.4





#89
Benzo(k)fluoranthene
Concen: 8.923 ng m
RT: 23.480 min Scan# 3450
Delta R.T. 0.000 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48

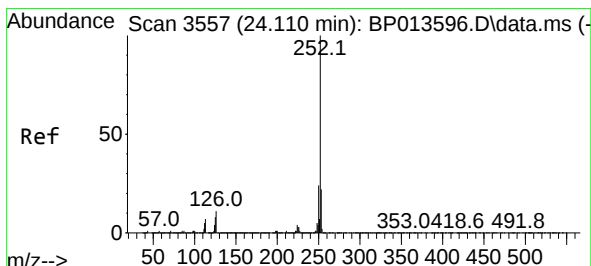
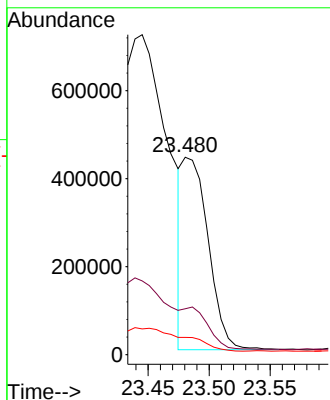
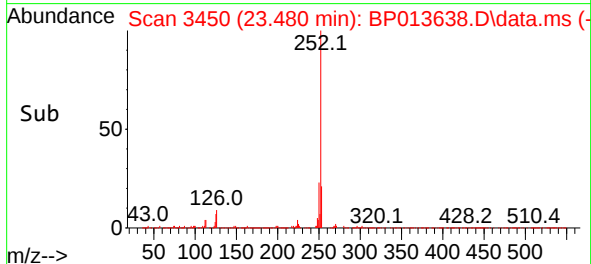
Instrument :
BNA_P
ClientSampleId :
EO-01-1-26-2023



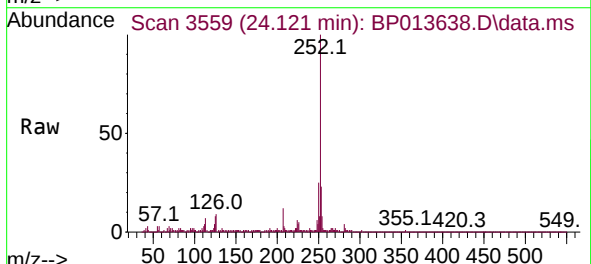
Tgt Ion:252 Resp: 639348
Ion Ratio Lower Upper
252 100
253 23.2 17.6 26.4
125 8.8 5.9 8.9

Manual Integrations
APPROVED

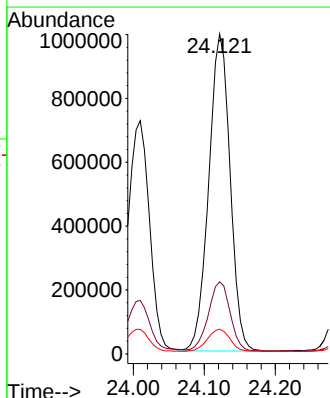
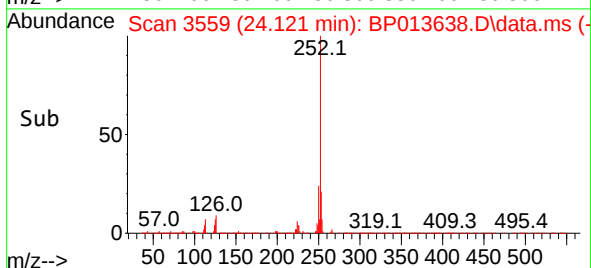
Reviewed By :Christian Giraldo 01/30/2023
Supervised By :Jagrut Upadhyay 01/30/2023

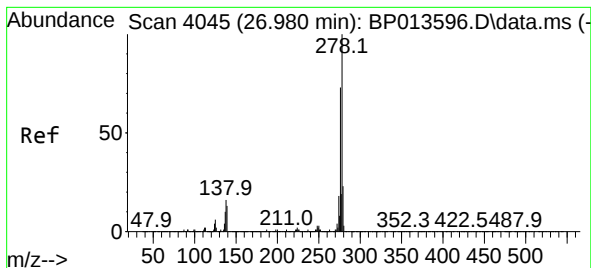


#90
Benzo(a)pyrene
Concen: 30.604 ng
RT: 24.121 min Scan# 3559
Delta R.T. 0.012 min
Lab File: BP013638.D
Acq: 28 Jan 2023 02:48



Tgt Ion:252 Resp: 2079048
Ion Ratio Lower Upper
252 100
253 22.5 17.2 25.8
125 7.7 6.8 10.2





#91

Dibenzo(a,h)anthracene

Concen: 5.685 ng

RT: 26.986 min Scan# 4045

Delta R.T. 0.006 min

Lab File: BP013638.D

Acq: 28 Jan 2023 02:48

Instrument :

BNA_P

ClientSampleId :

EO-01-1-26-2023

Tgt Ion:278 Resp: 373874

Ion Ratio Lower Upper

278 100

139 15.9 10.6 15.8

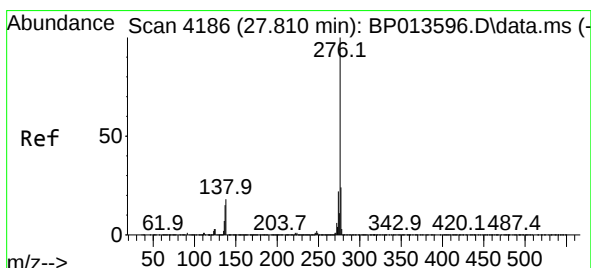
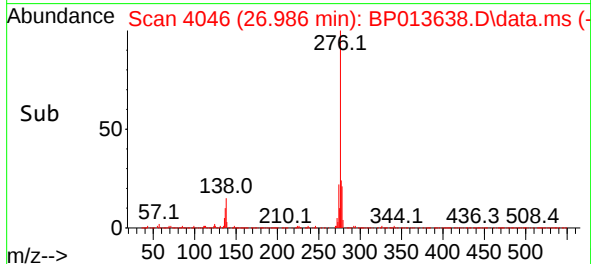
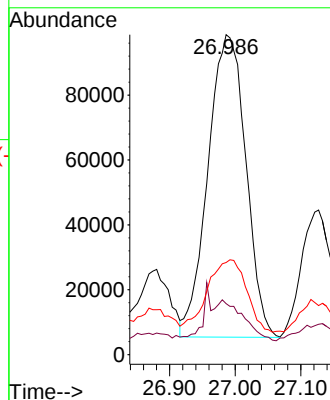
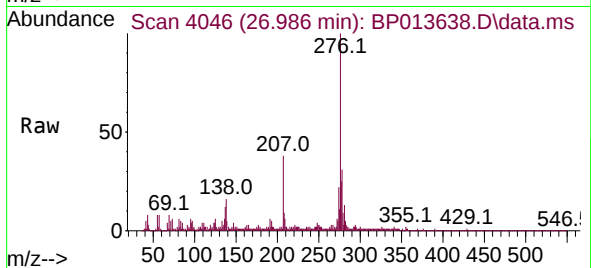
279 28.8 18.7 28.1

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 01/30/2023

Supervised By :Jagrut Upadhyay 01/30/2023



#92

Benzo(g,h,i)perylene

Concen: 21.374 ng

RT: 27.839 min Scan# 4191

Delta R.T. 0.029 min

Lab File: BP013638.D

Acq: 28 Jan 2023 02:48

Tgt Ion:276 Resp: 1384079

Ion Ratio Lower Upper

276 100

277 24.7 18.9 28.3

138 16.5 14.3 21.5

