

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032625\
 Data File : BF142112.D
 Acq On : 26 Mar 2025 22:35
 Operator : RC/JU
 Sample : Q1637-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-01-032525

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/27/2025
 Supervised By :Jagrut Upadhyay 03/27/2025

Quant Time: Mar 27 01:06:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	150321	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	543156	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	261153	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	394178	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	324857	20.000	ng	0.00
86) Perylene-d12	15.510	264	260188	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	358076	39.756	ng	-0.02
7) Phenol-d6	6.487	99	440499	38.412	ng	-0.02
23) Nitrobenzene-d5	7.428	82	276775	28.676	ng	-0.02
42) 2,4,6-Tribromophenol	10.692	330	119213	35.983	ng	-0.01
45) 2-Fluorobiphenyl	9.222	172	520297	30.299	ng	-0.02
79) Terphenyl-d14	12.974	244	493695	22.469	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.175	128	68265	2.447	ng	97
52) Acenaphthene	9.939	154	53454	3.466	ng	97
55) Dibenzofuran	10.110	168	54658	2.480	ng	# 97
58) Fluorene	10.451	166	93943	5.528	ng	99
71) Phenanthrene	11.416	178	705745	33.148	ng	99
72) Anthracene	11.469	178	212279	9.938	ng	99
73) Carbazole	11.622	167	77253	4.194	ng	98
75) Fluoranthene	12.610	202	932084	41.271	ng	99
78) Pyrene	12.839	202	800383	28.483	ng	98
81) Benzo(a)anthracene	14.021	228	381965	17.918	ng	97
83) Chrysene	14.057	228	281510m	14.568	ng	
87) Indeno(1,2,3-cd)pyrene	16.998	276	135493m	8.050	ng	
88) Benzo(b)fluoranthene	15.080	252	366233m	20.538	ng	
89) Benzo(k)fluoranthene	15.098	252	98398m	6.448	ng	
90) Benzo(a)pyrene	15.445	252	251355	18.014	ng	95
91) Dibenzo(a,h)anthracene	17.004	278	30490	2.196	ng	# 73
92) Benzo(g,h,i)perylene	17.445	276	130815	9.532	ng	98

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

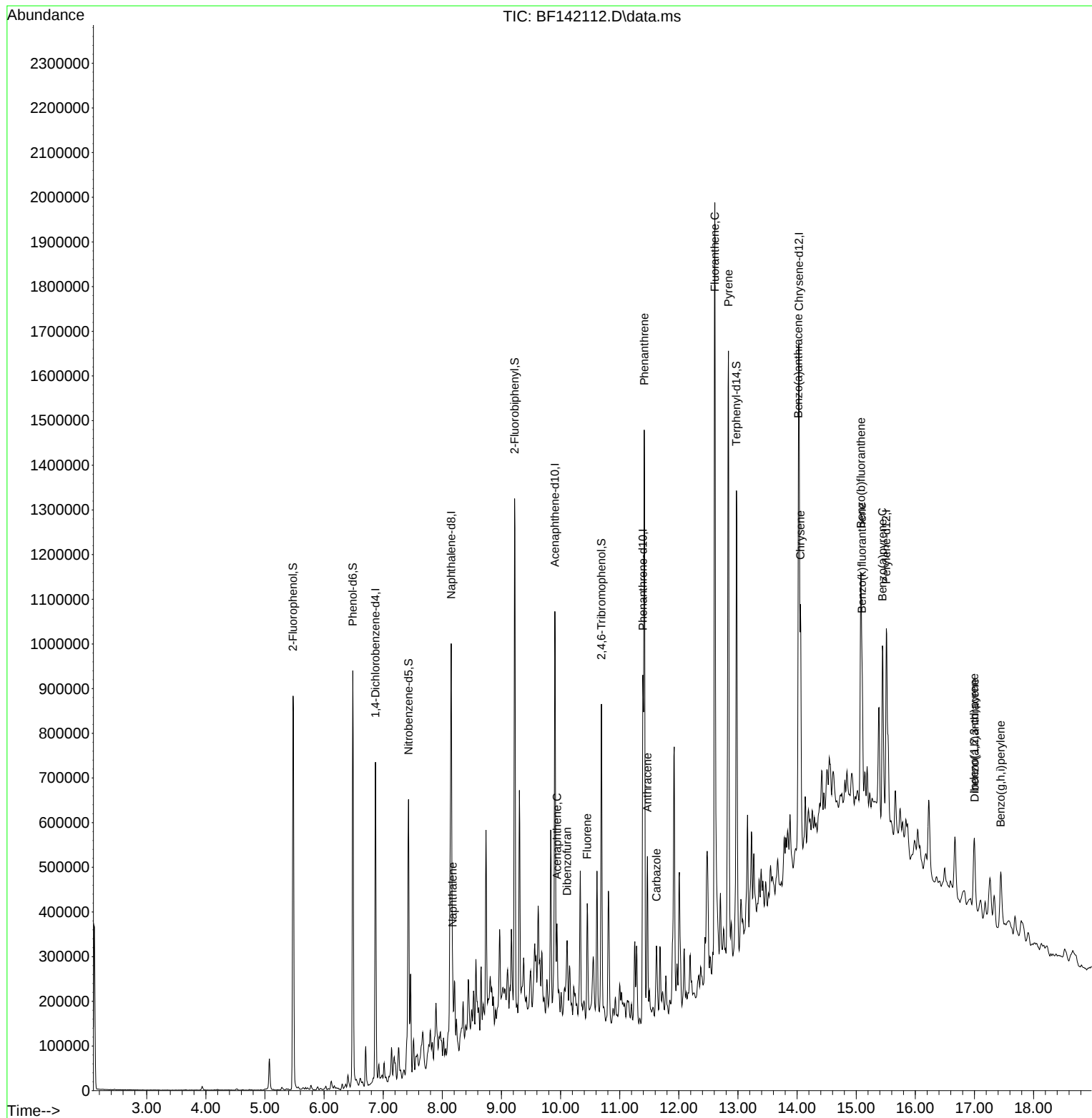
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032625\
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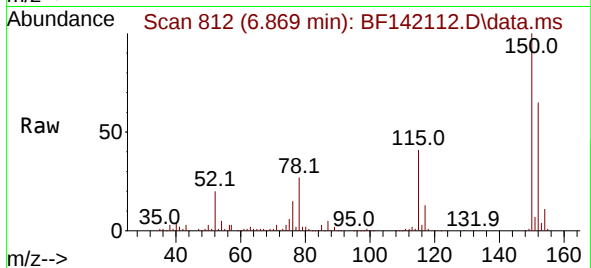
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

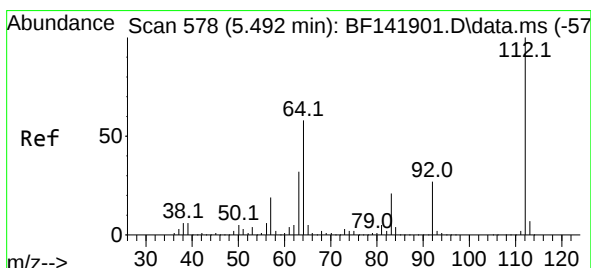
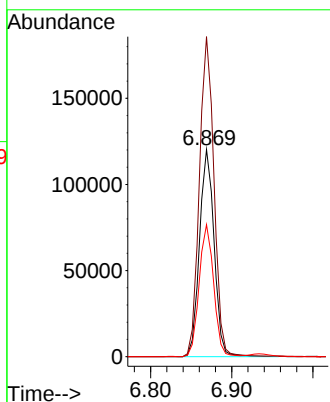
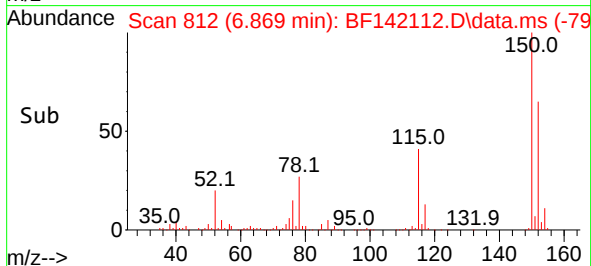
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BNA_F
ClientSampleId :
EO-01-032525



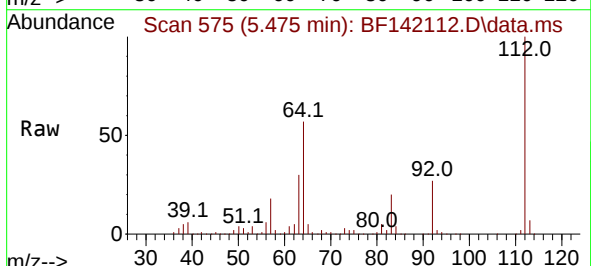
Tgt Ion:152 Resp: 15032
Ion Ratio Lower Upper
152 100
150 154.4 127.4 191.2
115 63.7 51.9 77.9

Manual Integrations
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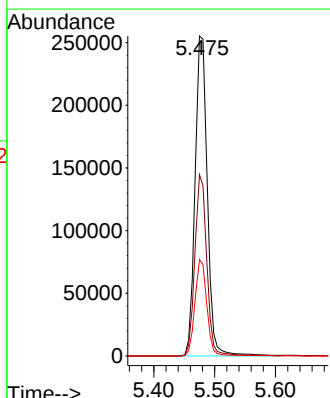
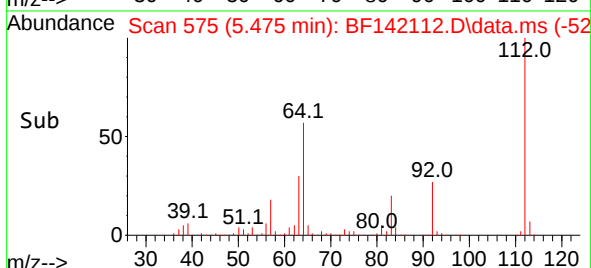
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025

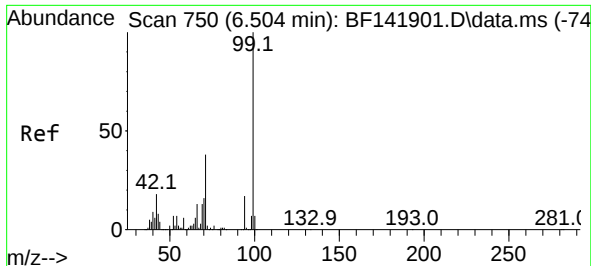


#5
2-Fluorophenol
Concen: 39.756 ng
RT: 5.475 min Scan# 575
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35



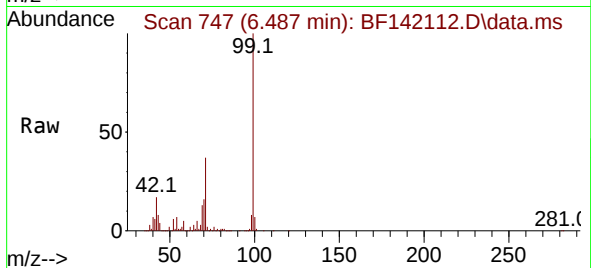
Tgt Ion:112 Resp: 358076
Ion Ratio Lower Upper
112 100
64 56.7 46.5 69.7
63 30.1 25.4 38.2





#7
Phenol-d6
Concen: 38.412 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

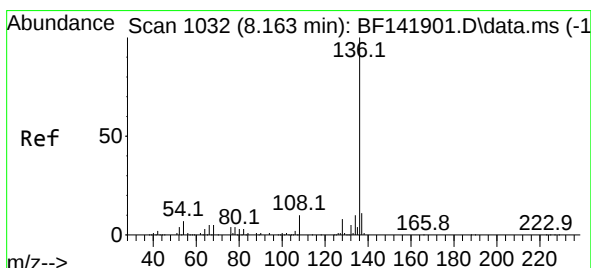
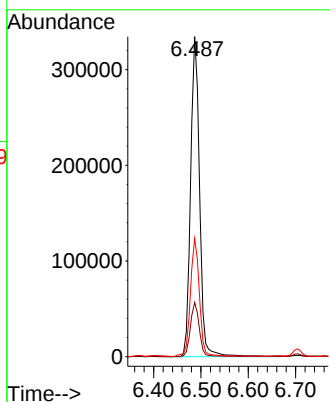
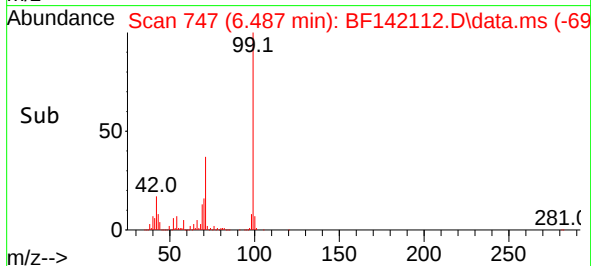
Instrument :
BNA_F
ClientSampleId :
EO-01-032525



Tgt Ion: 99 Resp: 440499
Ion Ratio Lower Upper
99 100
42 17.0 14.6 21.8
71 36.9 30.8 46.2

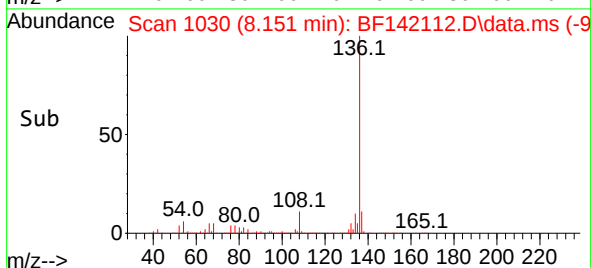
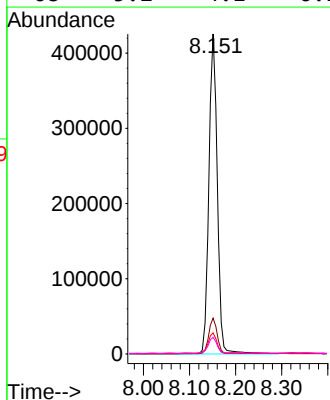
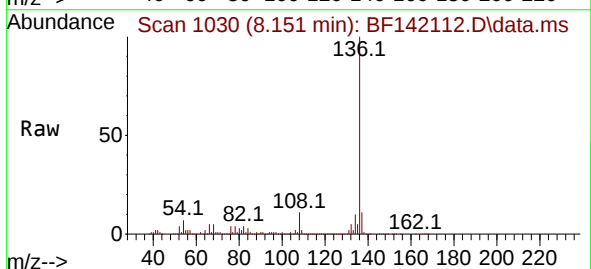
Manual Integrations
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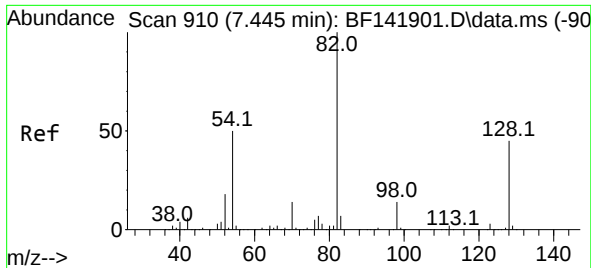
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:136 Resp: 543156
Ion Ratio Lower Upper
136 100
137 11.2 8.8 13.2
54 6.6 5.8 8.8
68 5.2 4.1 6.1





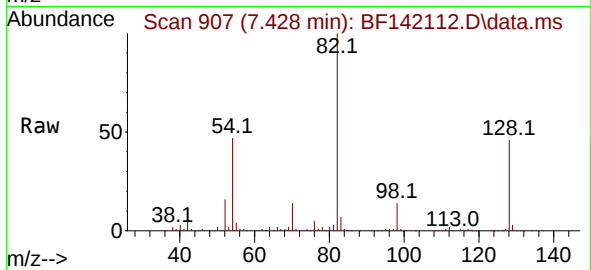
#23
Nitrobenzene-d5
Concen: 28.676 ng
RT: 7.428 min Scan# 90
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

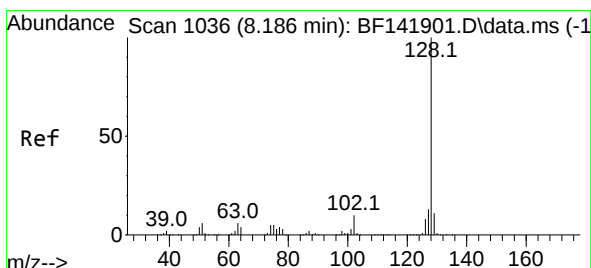
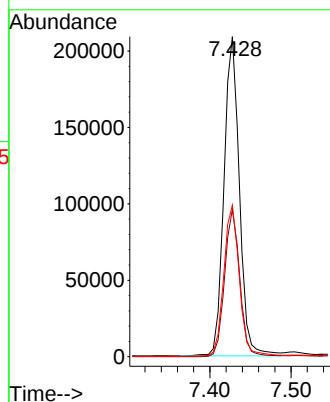
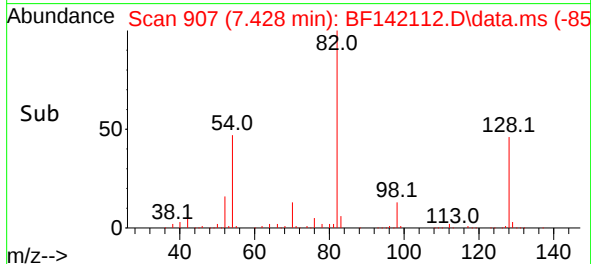


Tgt Ion: 82 Resp: 276775
Ion Ratio Lower Upper
82 100
128 46.0 36.0 54.0
54 47.3 39.6 59.4

Manual Integrations

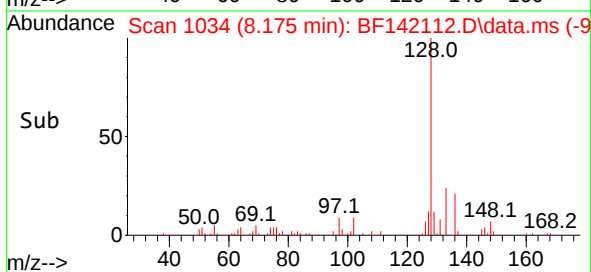
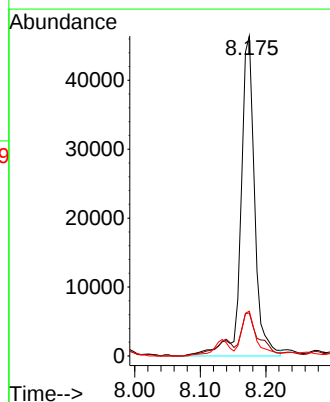
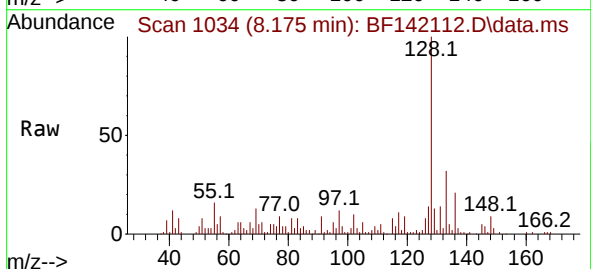
APPROVED

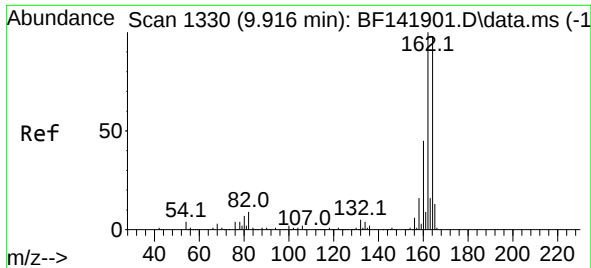
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#31
Naphthalene
Concen: 2.447 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

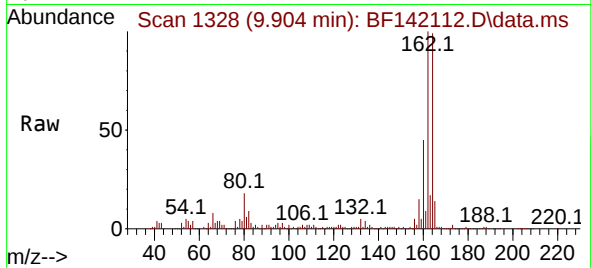
Tgt Ion:128 Resp: 68265
Ion Ratio Lower Upper
128 100
129 13.5 9.0 13.6
127 14.0 10.8 16.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

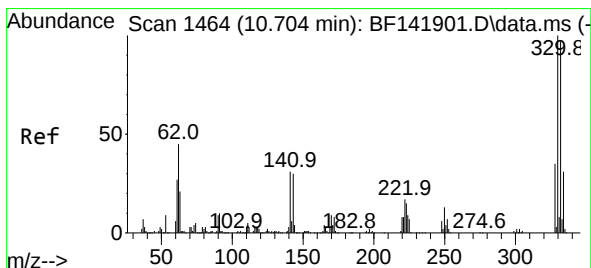
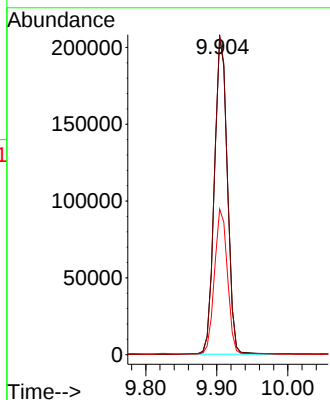
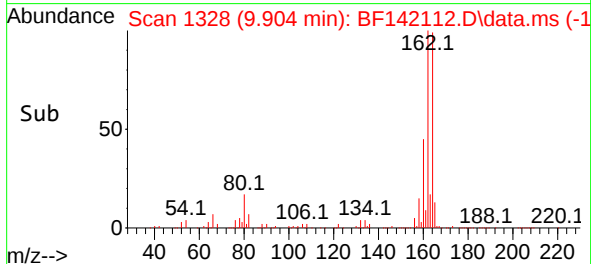
Instrument :
BNA_F
ClientSampleId :
EO-01-032525



Tgt Ion:164 Resp: 26115
Ion Ratio Lower Upper
164 100
162 100.7 81.8 122.6
160 45.8 36.7 55.1

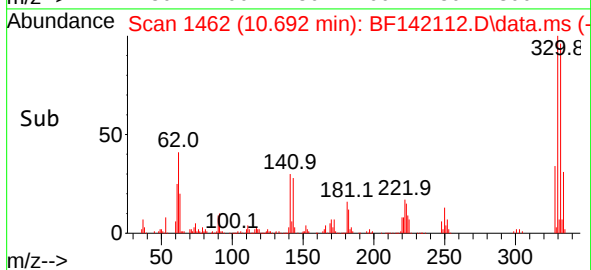
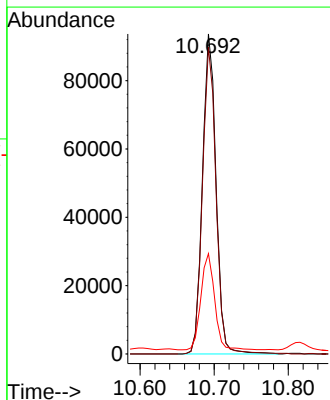
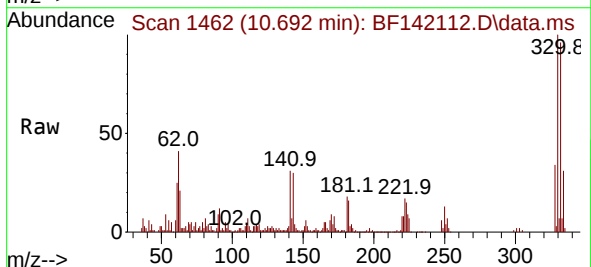
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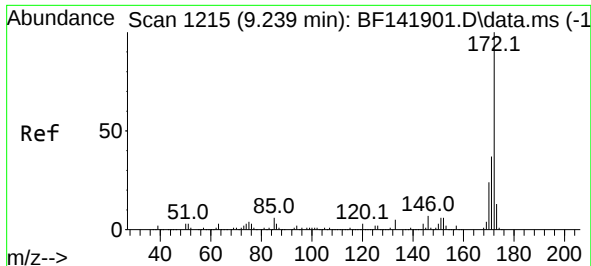
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#42
2,4,6-Tribromophenol
Concen: 35.983 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:330 Resp: 119213
Ion Ratio Lower Upper
330 100
332 96.0 77.6 116.4
141 30.3 24.7 37.1





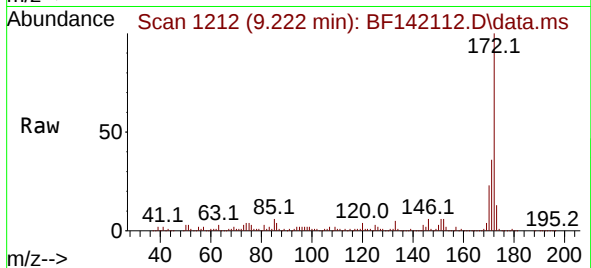
#45
2-Fluorobiphenyl
Concen: 30.299 ng
RT: 9.222 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

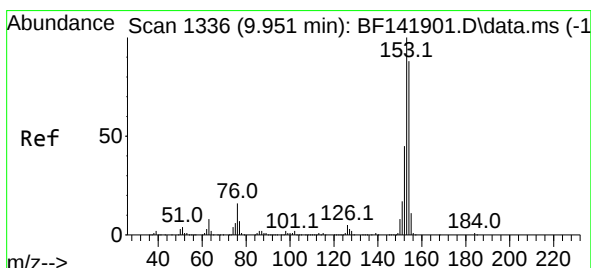
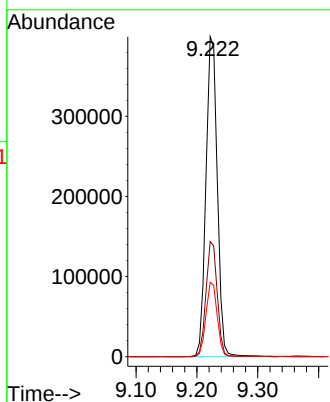
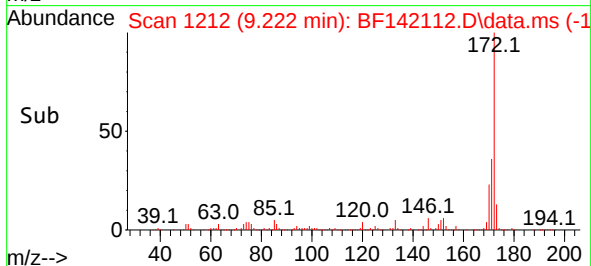


Tgt Ion:172 Resp: 52029
Ion Ratio Lower Upper
172 100
171 35.9 29.3 43.9
170 23.3 19.4 29.0

Manual Integrations

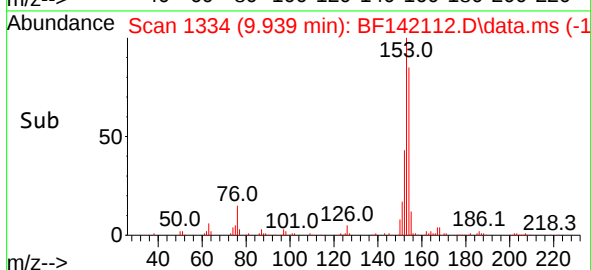
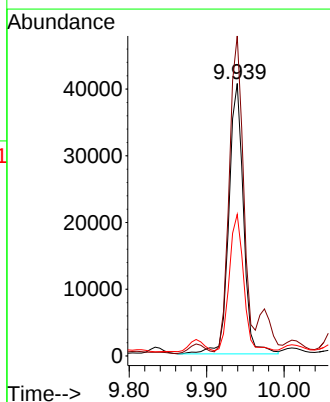
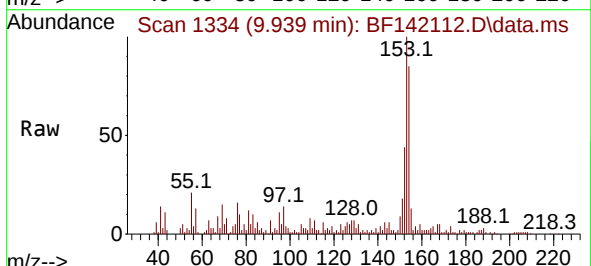
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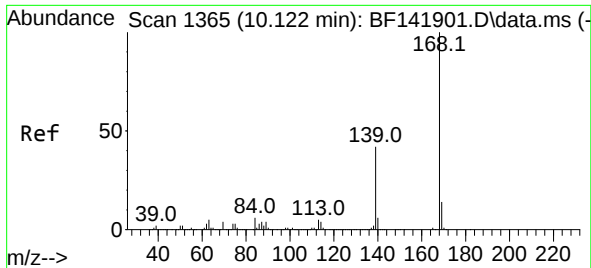
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#52
Acenaphthene
Concen: 3.466 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

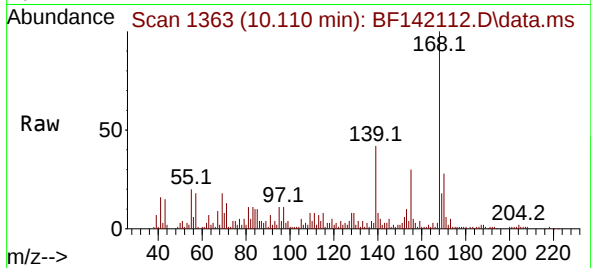
Tgt Ion:154 Resp: 53454
Ion Ratio Lower Upper
154 100
153 117.4 90.7 136.1
152 51.9 41.1 61.7





#55
Dibenzenofuran
Concen: 2.480 ng
RT: 10.110 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

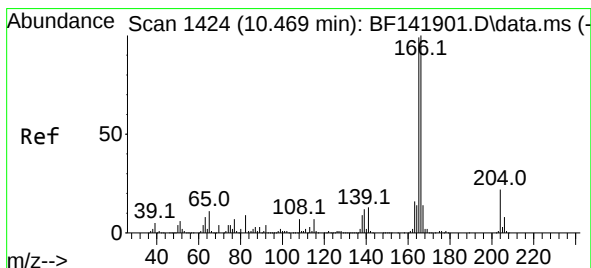
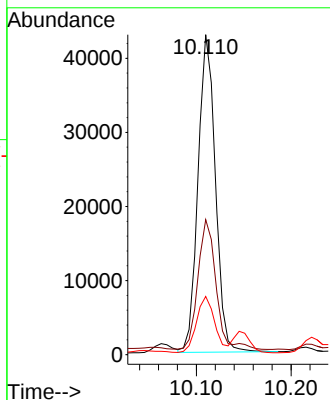
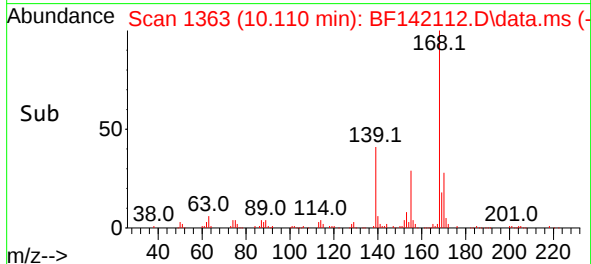
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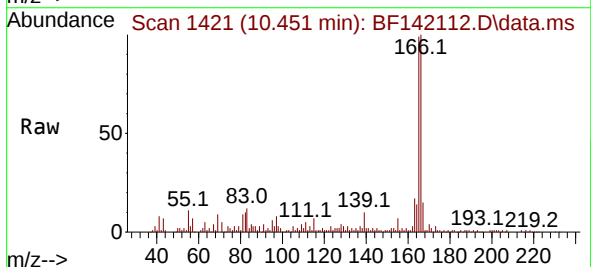
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Ion Ratio Lower Upper
168 100
139 42.2 33.9 50.9
169 18.2 11.0 16.4

Manual Integrations
APPROVED

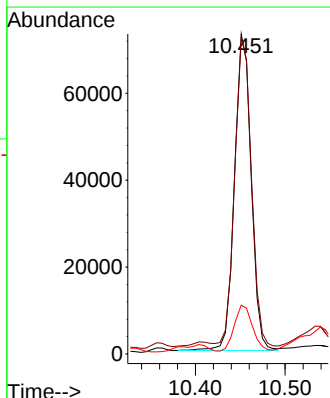
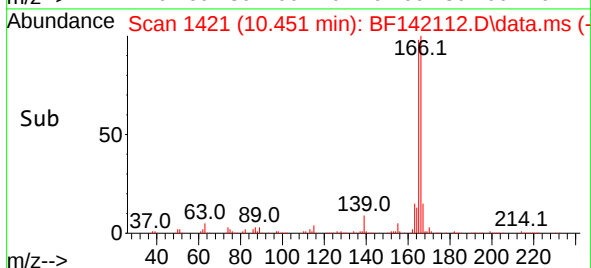
Reviewed By :Anahy Claudio 03/27/2025
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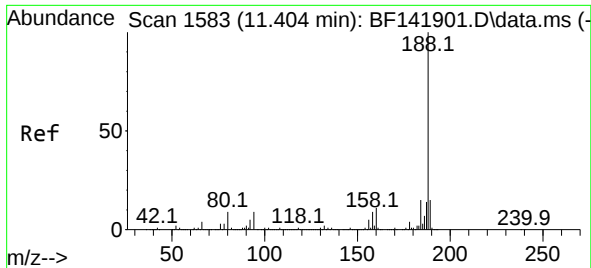


#58
Fluorene
Concen: 5.528 ng
RT: 10.451 min Scan# 1421
Delta R.T. -0.018 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35



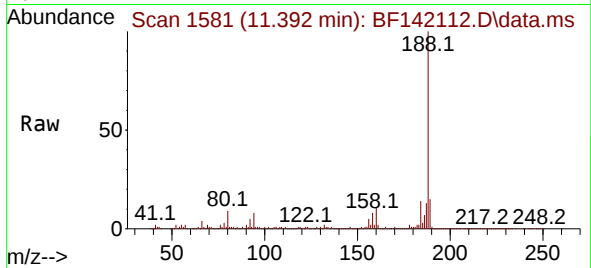
Tgt Ion:166 Resp: 93943
Ion Ratio Lower Upper
166 100
165 99.0 79.0 118.4
167 15.2 11.0 16.4





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 11392
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

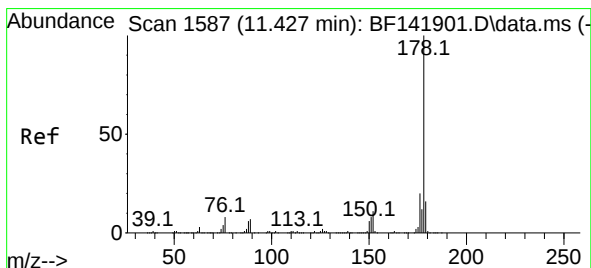
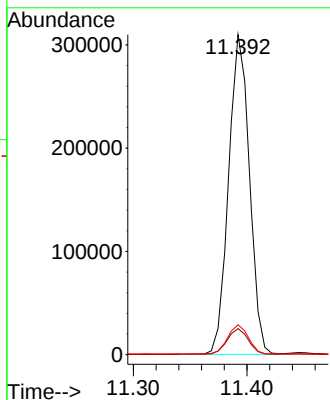
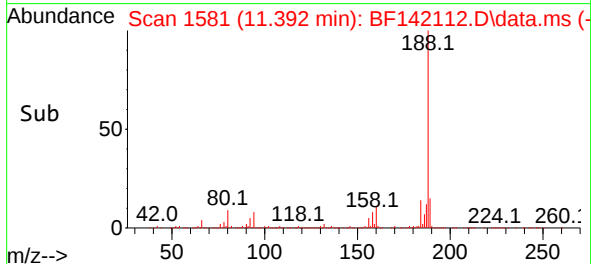
Instrument :
BNA_F
ClientSampleId :
EO-01-032525



Tgt Ion:188 Resp: 394178
Ion Ratio Lower Upper
188 100
94 8.2 6.8 10.2
80 9.4 7.6 11.4

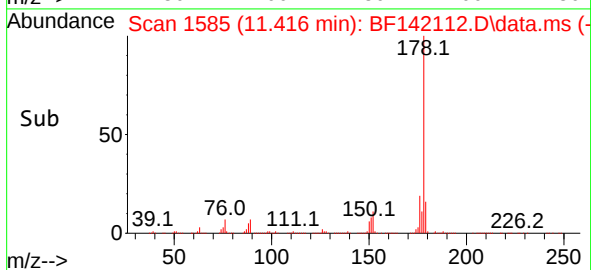
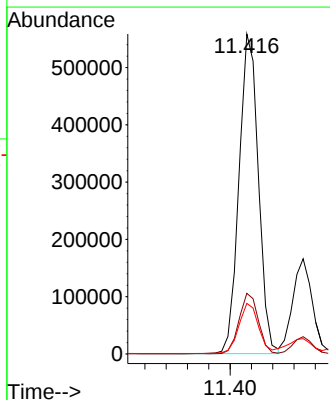
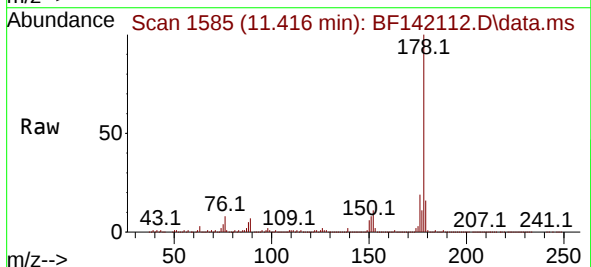
Manual Integrations
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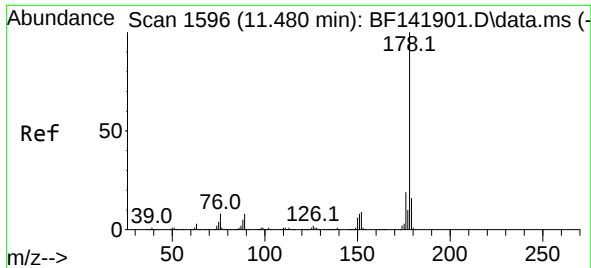
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#71
Phenanthrene
Concen: 33.148 ng
RT: 11.416 min Scan# 1585
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

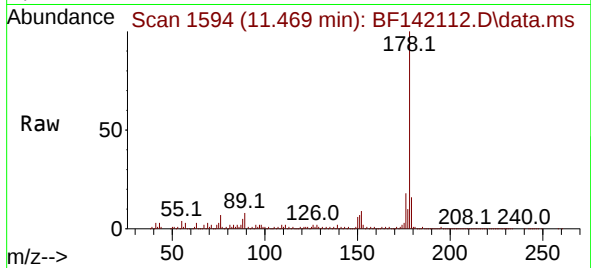
Tgt Ion:178 Resp: 705745
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.8
179 15.8 12.6 19.0





#72
 Anthracene
 Concen: 9.938 ng
 RT: 11.469 min Scan# 1596
 Delta R.T. -0.012 min
 Lab File: BF142112.D
 Acq: 26 Mar 2025 22:35

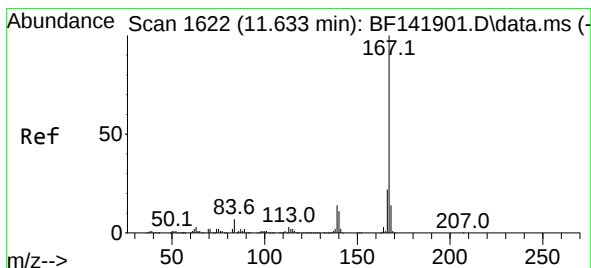
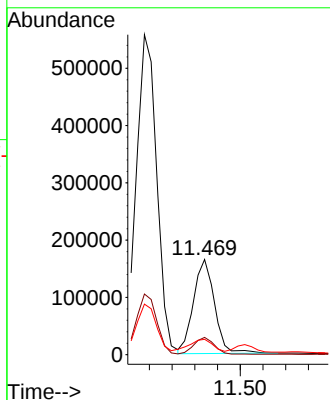
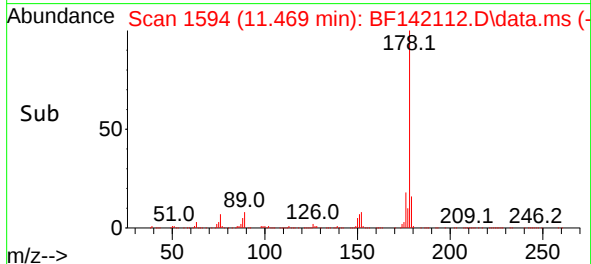
Instrument :
 BNA_F
 ClientSampleId :
 EO-01-032525



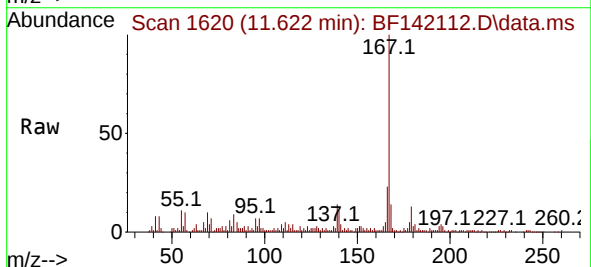
Tgt Ion:178 Resp: 212279
 Ion Ratio Lower Upper
 178 100
 176 18.1 15.1 22.7
 179 16.1 12.6 19.0

Manual Integrations
 APPROVED

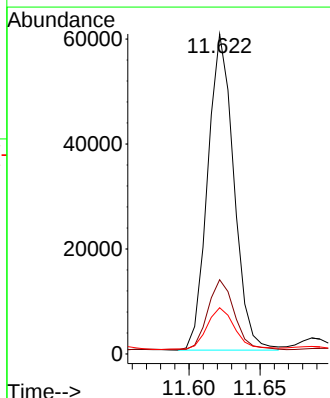
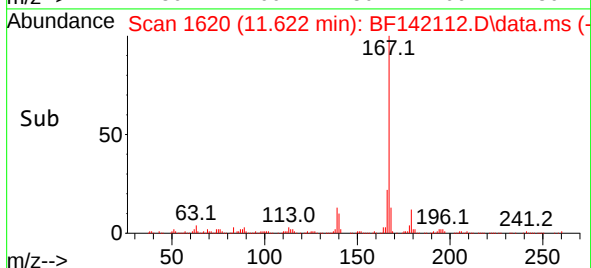
Reviewed By :Anahy Claudio 03/27/2025
 Supervised By :Jagrut Upadhyay 03/27/2025

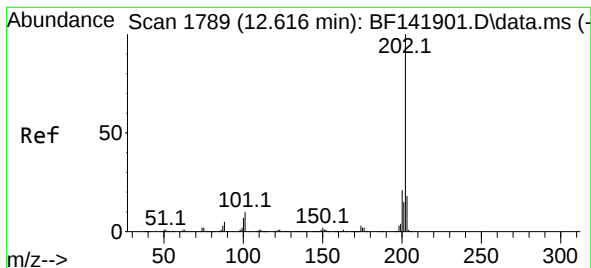


#73
 Carbazole
 Concen: 4.194 ng
 RT: 11.622 min Scan# 1620
 Delta R.T. -0.012 min
 Lab File: BF142112.D
 Acq: 26 Mar 2025 22:35



Tgt Ion:167 Resp: 77253
 Ion Ratio Lower Upper
 167 100
 166 23.2 17.4 26.2
 139 14.4 11.0 16.6





#75

Fluoranthene

Concen: 41.271 ng

RT: 12.610 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

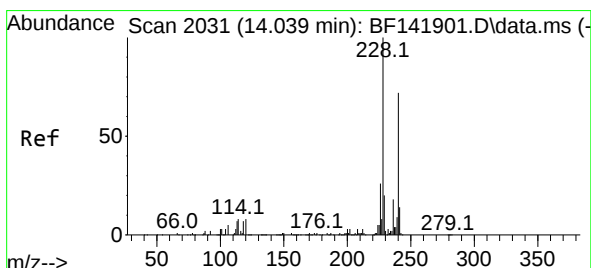
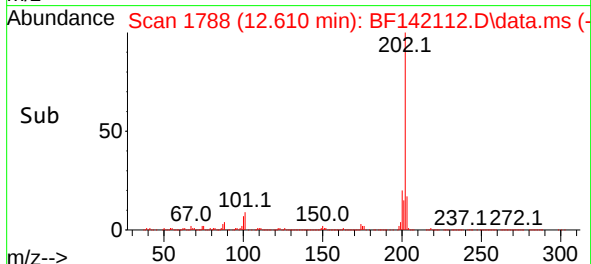
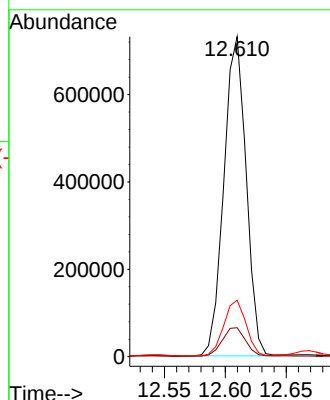
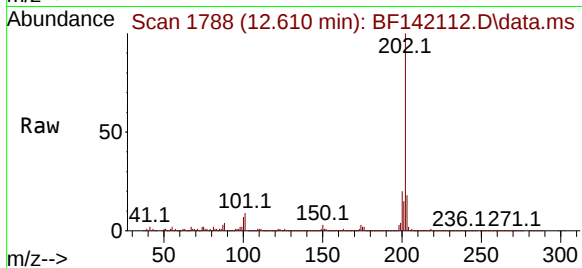
EO-01-032525

Tgt Ion:202 Resp: 932084
 Ion Ratio Lower Upper
 202 100
 101 9.0 0.0 29.7
 203 17.6 0.0 37.8

Manual Integrations

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Reviewed By :Anahy Claudio 03/27/2025
 Supervised By :Jagrut Upadhyay 03/27/2025



#76

Chrysene-d12

Concen: 20.000 ng

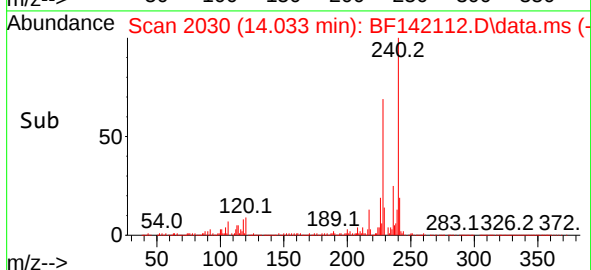
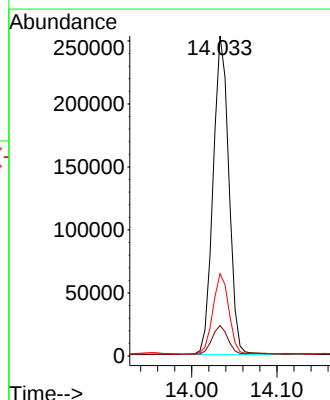
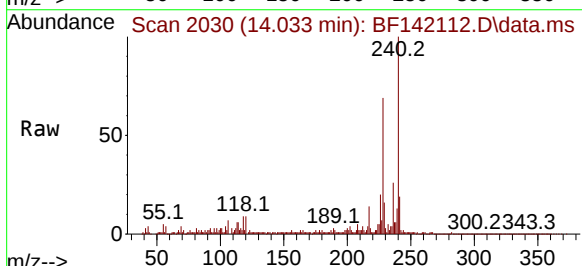
RT: 14.033 min Scan# 2030

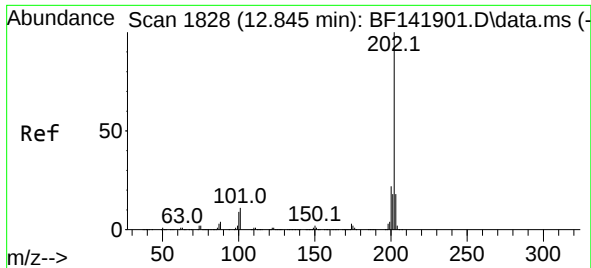
Delta R.T. -0.006 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Tgt Ion:240 Resp: 324857
 Ion Ratio Lower Upper
 240 100
 120 9.5 8.4 12.6
 236 25.7 20.5 30.7





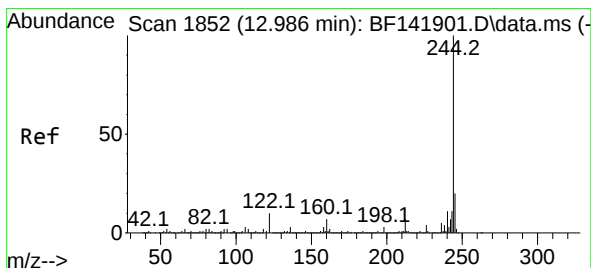
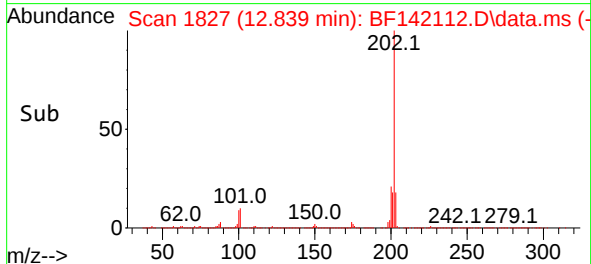
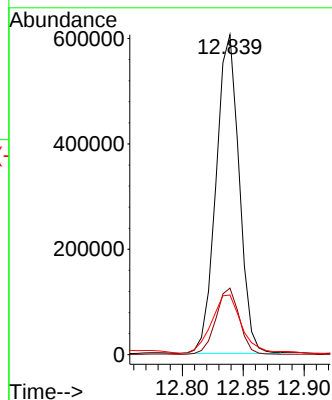
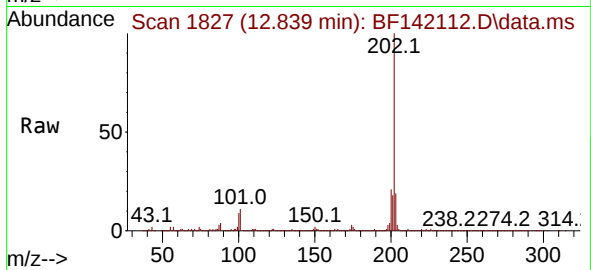
#78
Pyrene
Concen: 28.483 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Instrument :
BNA_F
ClientSampleId :
EO-01-032525

Tgt Ion:202 Resp: 80038
Ion Ratio Lower Upper
202 100
200 20.8 17.3 25.9
203 18.7 14.4 21.6

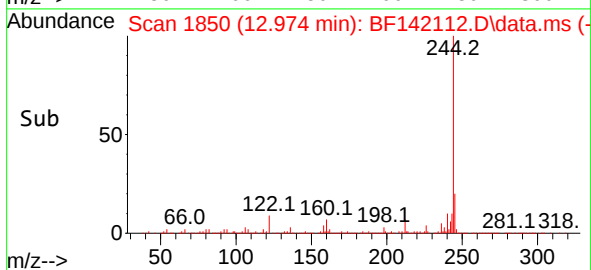
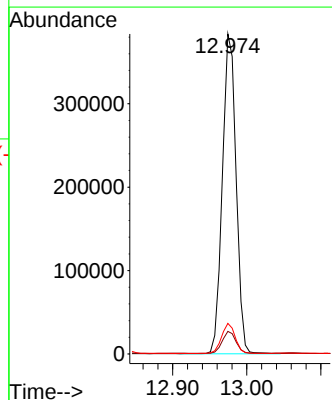
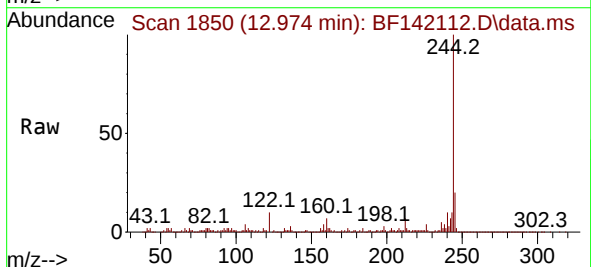
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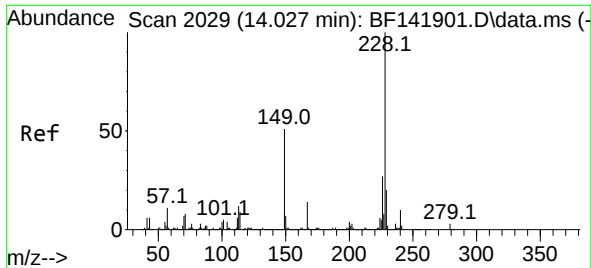
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#79
Terphenyl-d14
Concen: 22.469 ng
RT: 12.974 min Scan# 1850
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:244 Resp: 493695
Ion Ratio Lower Upper
244 100
212 7.0 6.0 9.0
122 9.6 7.7 11.5





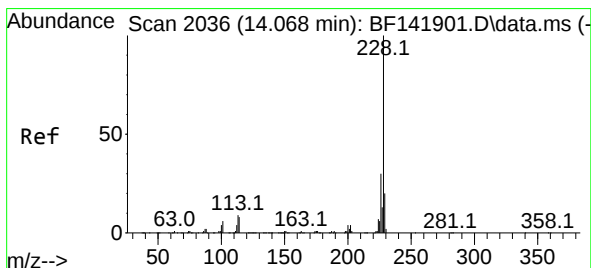
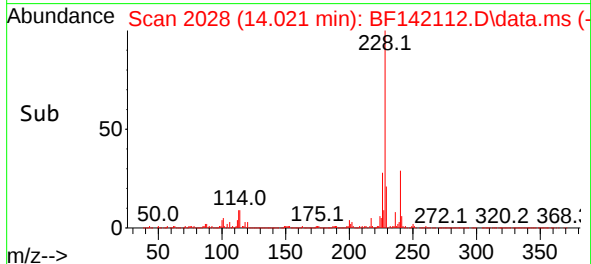
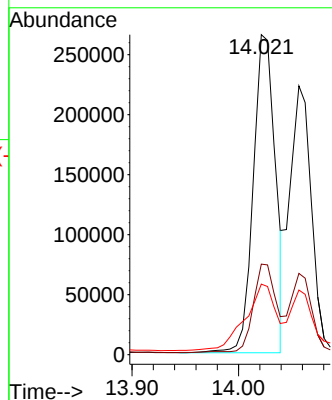
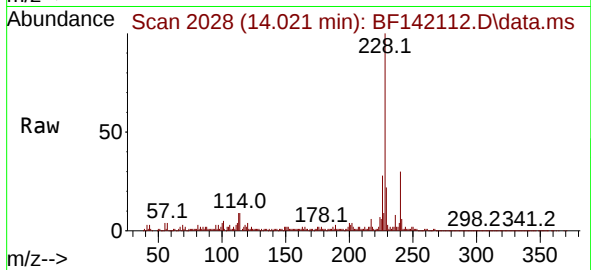
#81
Benzo(a)anthracene
Concen: 17.918 ng
RT: 14.021 min Scan# 2029
Delta R.T. -0.006 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Instrument :
BNA_F
ClientSampleId :
EO-01-032525

Tgt Ion:228 Resp: 38196
Ion Ratio Lower Upper
228 100
226 28.3 21.8 32.8
229 22.1 16.0 24.0

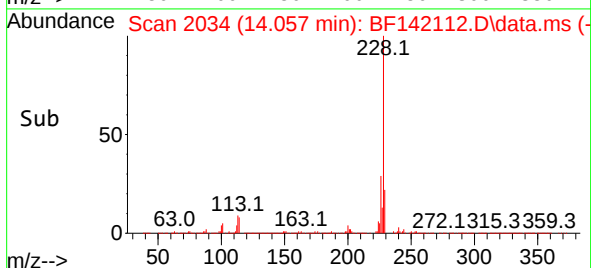
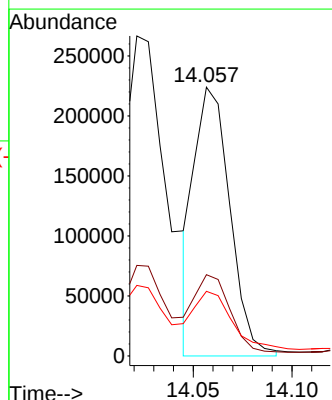
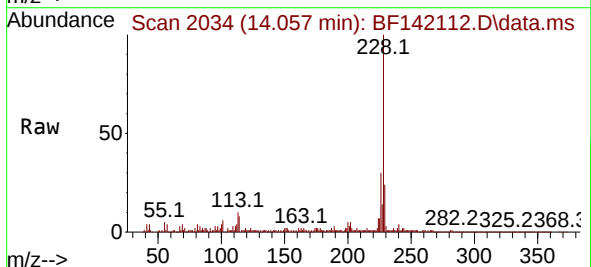
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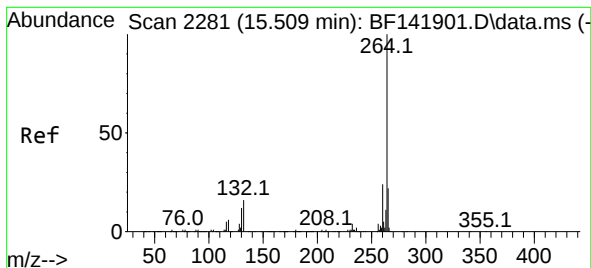
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#83
Chrysene
Concen: 14.568 ng m
RT: 14.057 min Scan# 2034
Delta R.T. -0.012 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Tgt Ion:228 Resp: 281510
Ion Ratio Lower Upper
228 100
226 30.2 24.1 36.1
229 24.1 15.7 23.5#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

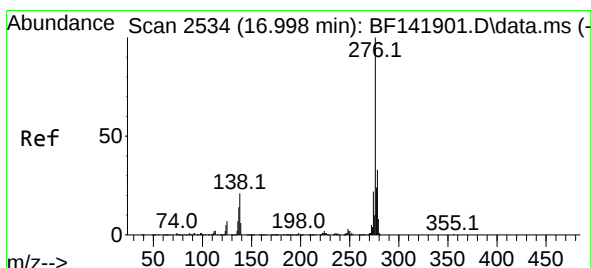
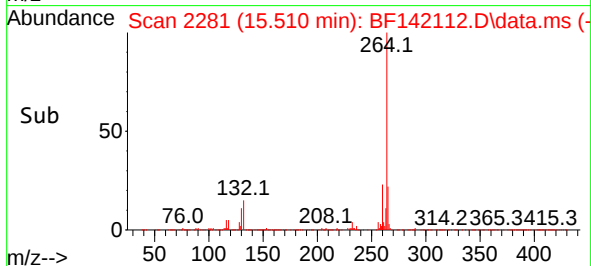
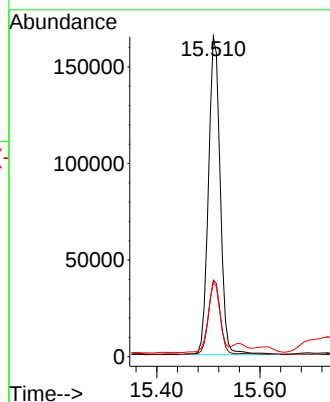
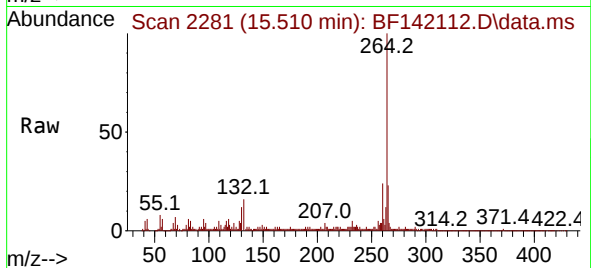
EO-01-032525

Tgt Ion:264 Resp: 260188
 Ion Ratio Lower Upper
 264 100
 260 24.0 19.1 28.7
 265 23.3 17.5 26.3

Manual Integrations

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 Supervised By :Jagrut Upadhyay 03/27/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.050 ng m

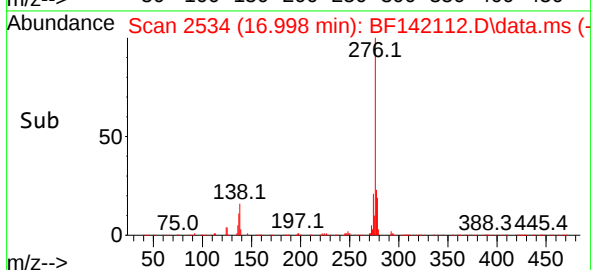
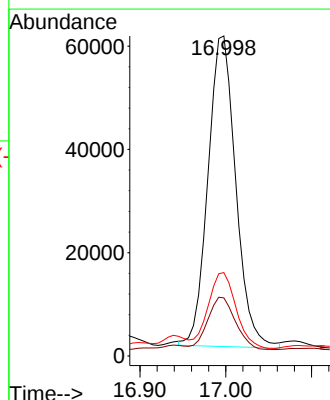
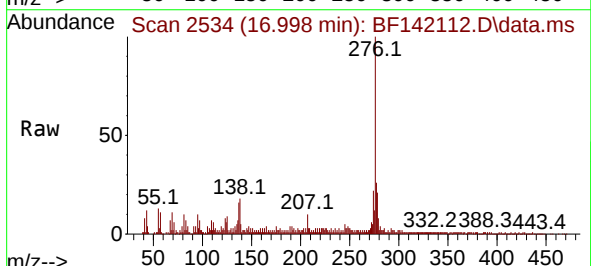
RT: 16.998 min Scan# 2534

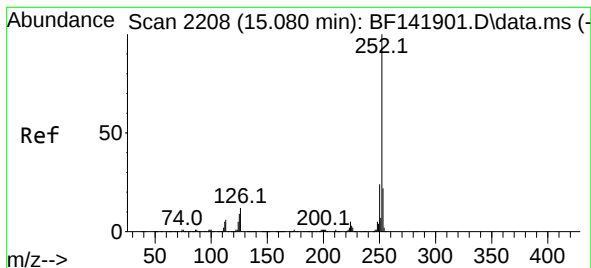
Delta R.T. 0.000 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Tgt Ion:276 Resp: 135493
 Ion Ratio Lower Upper
 276 100
 138 4.3 18.4 27.6#
 277 3.9 20.3 30.5#





#88

Benzo(b)fluoranthene

Concen: 20.538 ng m

RT: 15.080 min Scan# 2208

Delta R.T. 0.000 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

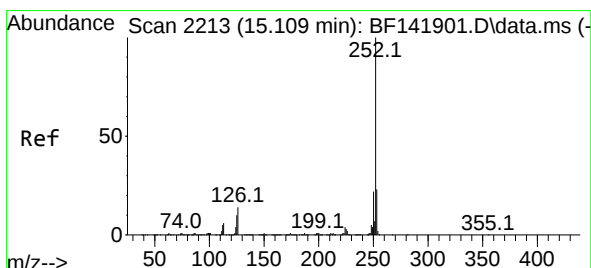
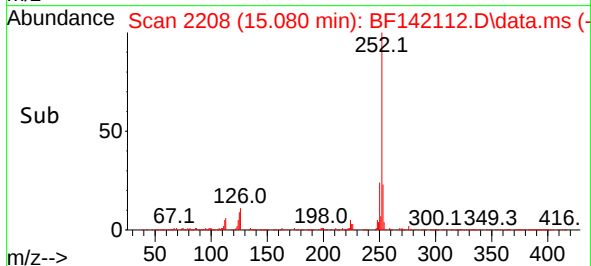
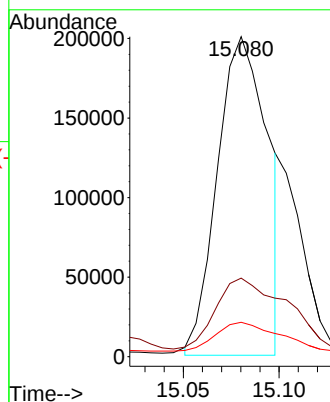
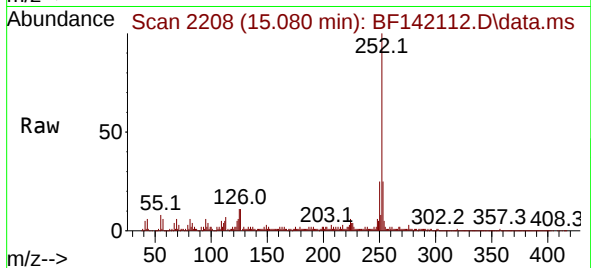
EO-01-032525

Tgt Ion:252 Resp: 366233
 Ion Ratio Lower Upper
 252 100
 253 24.5 17.5 26.3
 125 10.8 7.0 10.4

Manual Integrations

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 Supervised By :Jagrut Upadhyay 03/27/2025



#89

Benzo(k)fluoranthene

Concen: 6.448 ng m

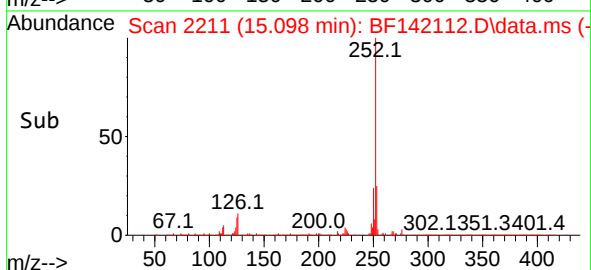
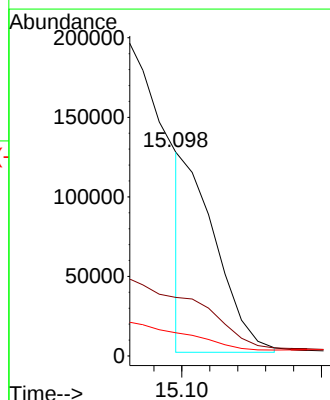
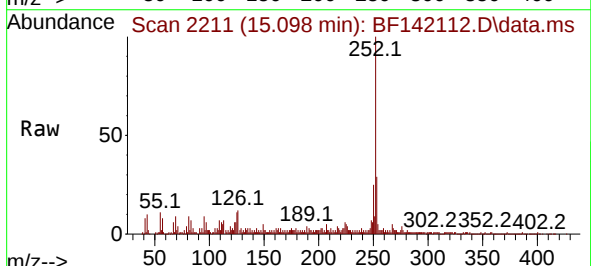
RT: 15.098 min Scan# 2211

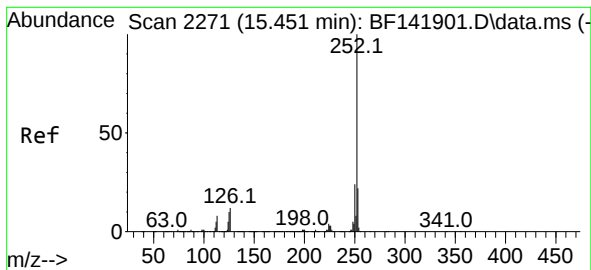
Delta R.T. -0.012 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Tgt Ion:252 Resp: 98398
 Ion Ratio Lower Upper
 252 100
 253 28.8 17.7 26.5#
 125 11.4 7.2 10.8#





#90

Benzo(a)pyrene

Concen: 18.014 ng

RT: 15.445 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Instrument :

BNA_F

ClientSampleId :

EO-01-032525

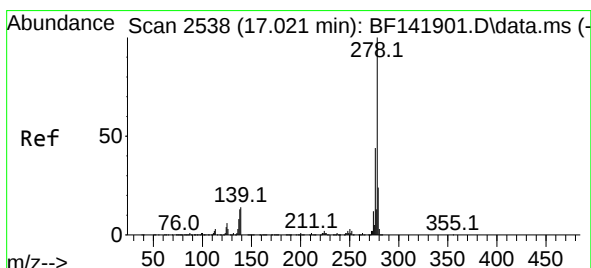
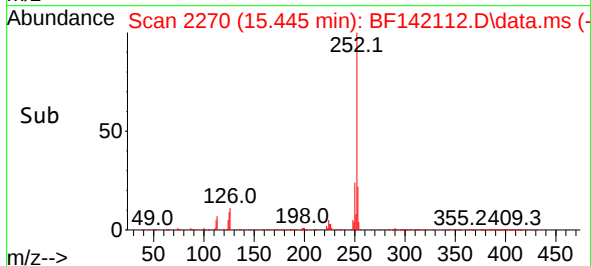
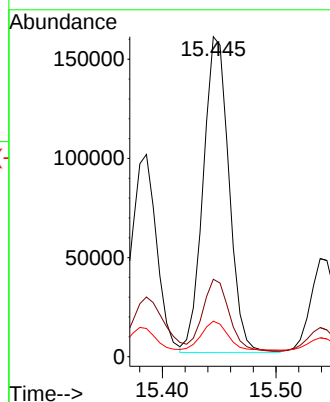
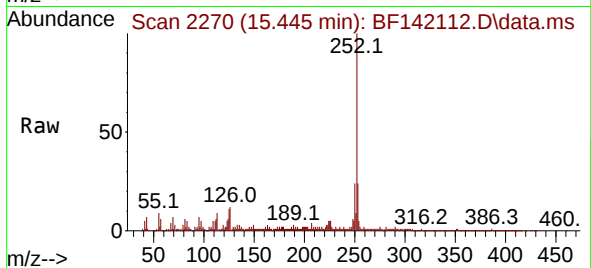
Tgt Ion:252 Resp: 25135

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.4	26.0
125	11.1	7.8	11.8

Manual Integrations

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Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#91

Dibenzo(a,h)anthracene

Concen: 2.196 ng

RT: 17.004 min Scan# 2535

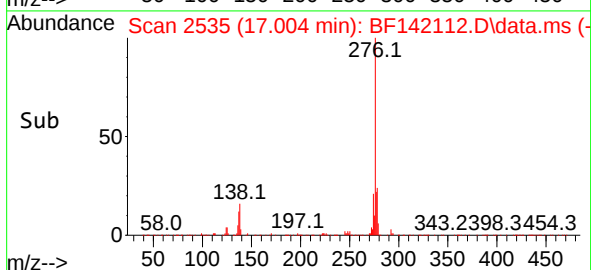
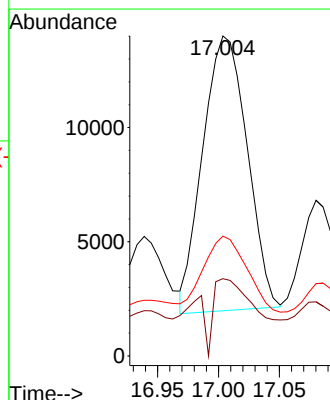
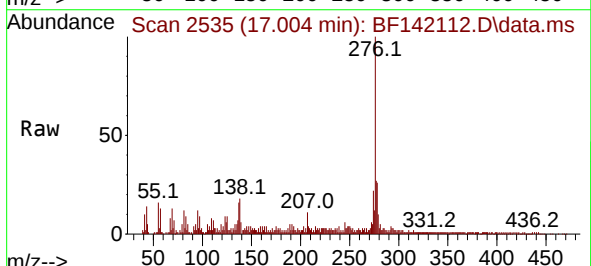
Delta R.T. -0.018 min

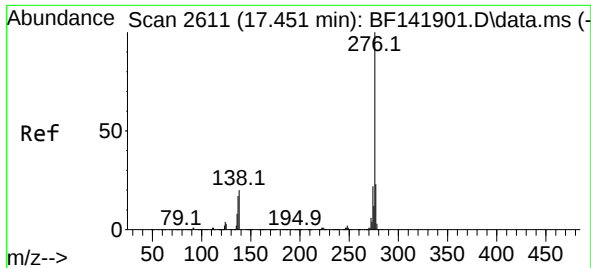
Lab File: BF142112.D

Acq: 26 Mar 2025 22:35

Tgt Ion:278 Resp: 30490

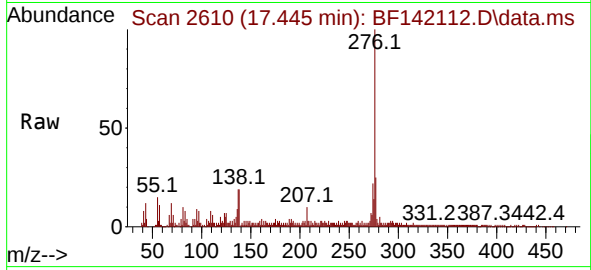
Ion	Ratio	Lower	Upper
278	100		
139	24.1	11.4	17.2#
279	37.4	18.8	28.2#





#92
Benzo(g,h,i)perylene
Concen: 9.532 ng
RT: 17.445 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF142112.D
Acq: 26 Mar 2025 22:35

Instrument :
BNA_F
ClientSampleId :
EO-01-032525



Tgt Ion:276 Resp: 130815
Ion Ratio Lower Upper
276 100
277 24.8 18.7 28.1
138 19.2 15.8 23.8

Manual Integrations
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Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025

