

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032625\
 Data File : BF142113.D
 Acq On : 26 Mar 2025 23:05
 Operator : RC/JU
 Sample : Q1637-03 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 EO-02-032525

Manual Integrations
 APPROVED

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

Quant Time: Mar 27 01:07:16 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	112047	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	407447	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	206500	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	345743	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	273824	20.000	ng	0.00
86) Perylene-d12	15.510	264	220106	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	125954	18.761	ng	-0.02
7) Phenol-d6	6.487	99	154635	18.090	ng	-0.02
23) Nitrobenzene-d5	7.428	82	102857	14.206	ng	-0.02
42) 2,4,6-Tribromophenol	10.692	330	44867	17.127	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	191956	14.137	ng	-0.01
79) Terphenyl-d14	12.975	244	223774	12.082	ng	-0.01
Target Compounds						Qvalue
22) Acetophenone	7.263	105	46384	4.754	ng	# 52
31) Naphthalene	8.175	128	161906	7.736	ng	97
37) 2-Methylnaphthalene	8.863	142	36229	2.590	ng	98
38) 1-Methylnaphthalene	8.963	142	29297	2.170	ng	95
52) Acenaphthene	9.939	154	55086	4.517	ng	97
55) Dibenzofuran	10.110	168	73023	4.190	ng	# 98
58) Fluorene	10.457	166	87584	6.517	ng	98
71) Phenanthrene	11.416	178	618583	33.124	ng	99
72) Anthracene	11.469	178	172669	9.216	ng	99
73) Carbazole	11.622	167	58880	3.644	ng	98
75) Fluoranthene	12.610	202	775067	39.126	ng	99
78) Pyrene	12.839	202	639355	26.993	ng	99
81) Benzo(a)anthracene	14.022	228	288895	16.078	ng	97
83) Chrysene	14.057	228	237248	14.566	ng	97
87) Indeno(1,2,3-cd)pyrene	16.992	276	94955	6.669	ng	# 93
88) Benzo(b)fluoranthene	15.080	252	242569m	16.080	ng	
89) Benzo(k)fluoranthene	15.092	252	98789m	7.652	ng	
90) Benzo(a)pyrene	15.445	252	178224	15.099	ng	96
91) Dibenzo(a,h)anthracene	17.004	278	24222	2.062	ng	# 74
92) Benzo(g,h,i)perylene	17.445	276	90062	7.758	ng	99

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

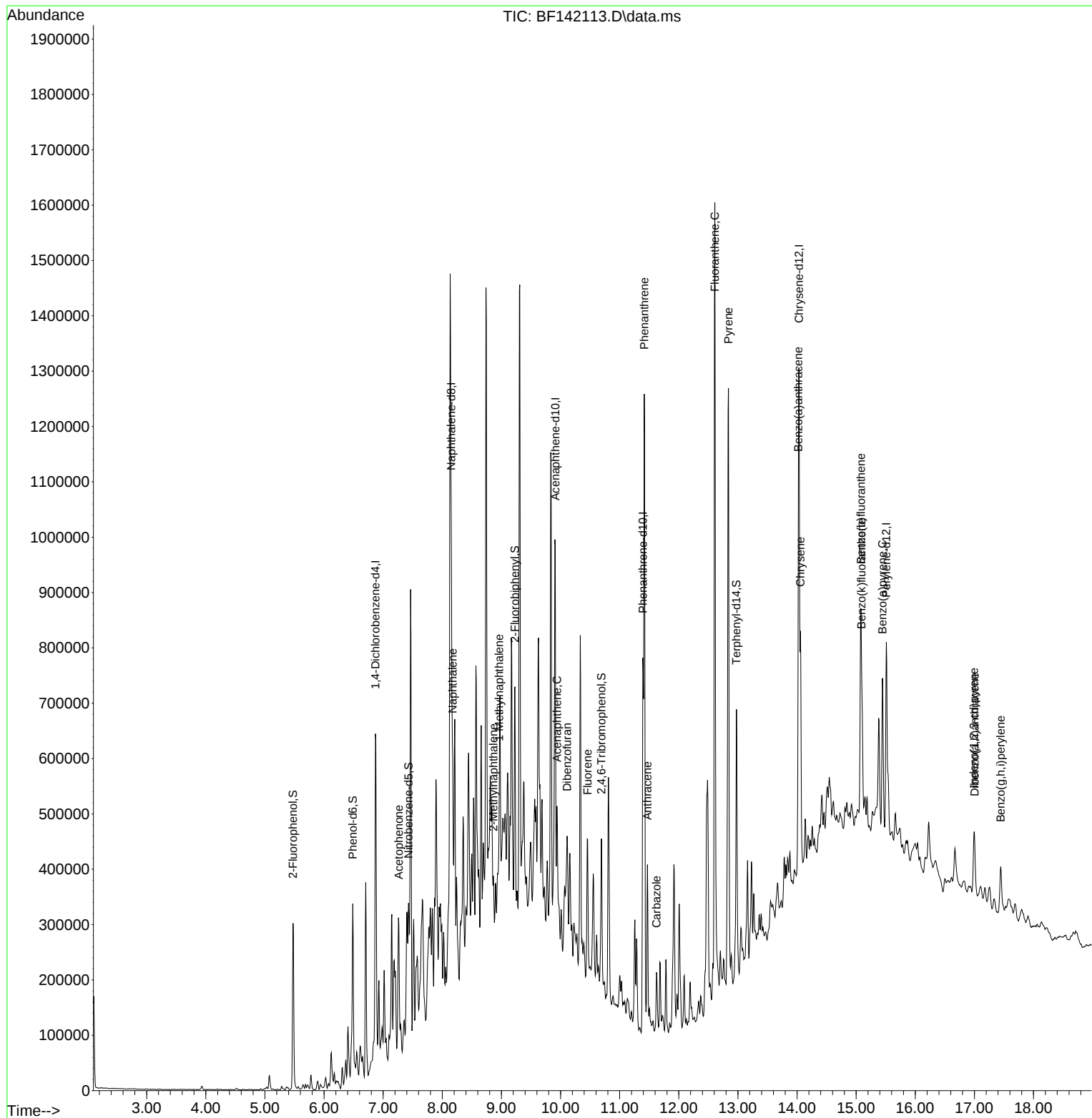
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032625\
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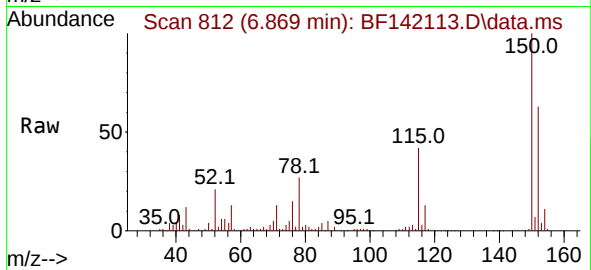
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

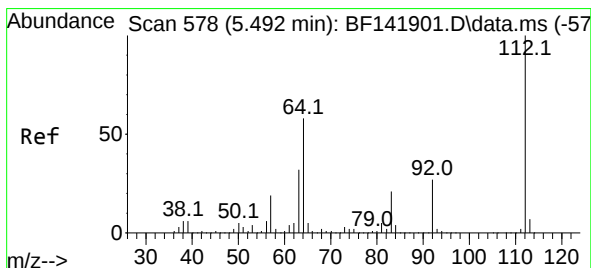
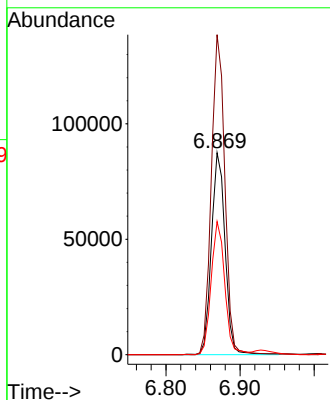
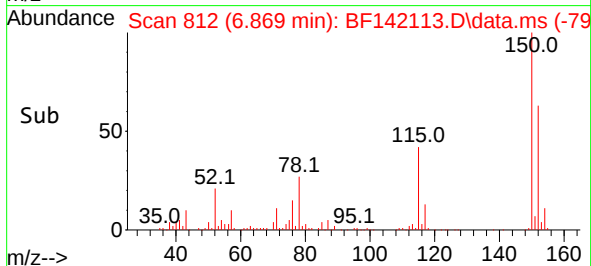
Instrument :
BNA_F
ClientSampleId :
EO-02-032525



Tgt Ion:152 Resp: 11204
Ion Ratio Lower Upper
152 100
150 158.5 127.4 191.2
115 65.9 51.9 77.9

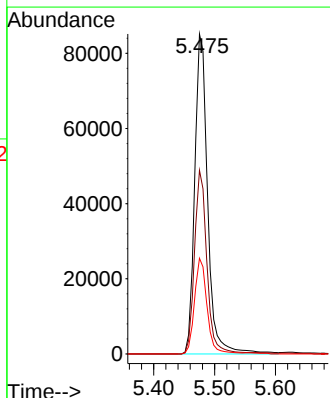
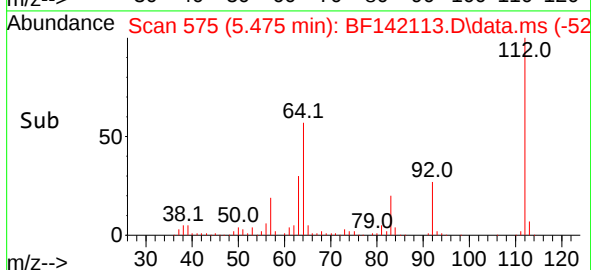
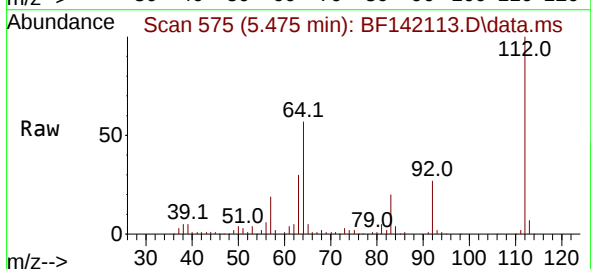
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Supervised By :Jagrut Upadhyay 03/27/2025



#5
2-Fluorophenol
Concen: 18.761 ng
RT: 5.475 min Scan# 575
Delta R.T. -0.017 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

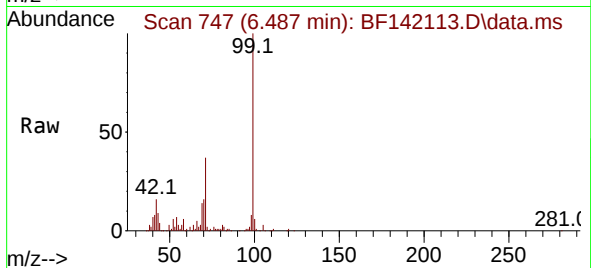
Tgt Ion:112 Resp: 125954
Ion Ratio Lower Upper
112 100
64 57.4 46.5 69.7
63 29.9 25.4 38.2





#7
Phenol-d6
Concen: 18.090 ng
RT: 6.487 min Scan# 74
Delta R.T. -0.017 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

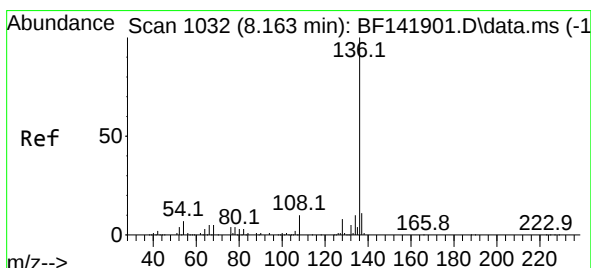
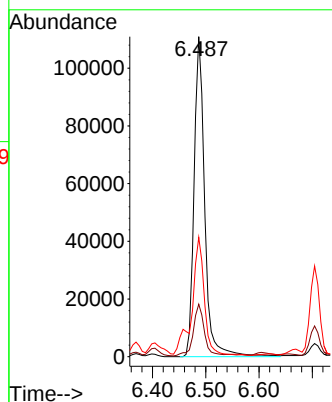
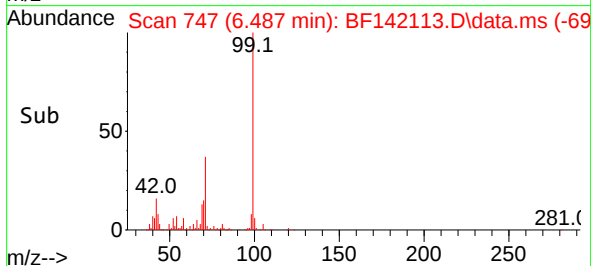
Instrument :
BNA_F
ClientSampleId :
EO-02-032525



Tgt Ion: 99 Resp: 15463
Ion Ratio Lower Upper
99 100
42 16.4 14.6 21.8
71 37.3 30.8 46.2

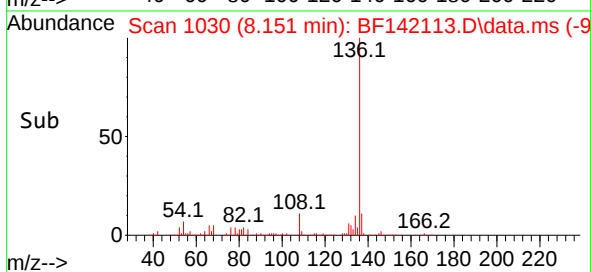
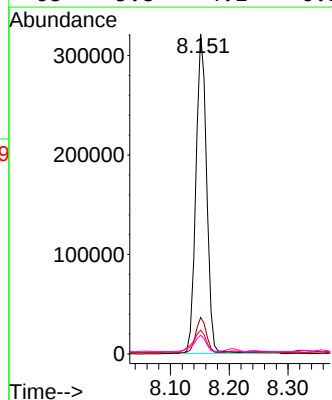
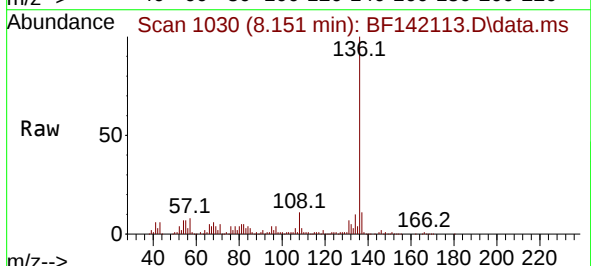
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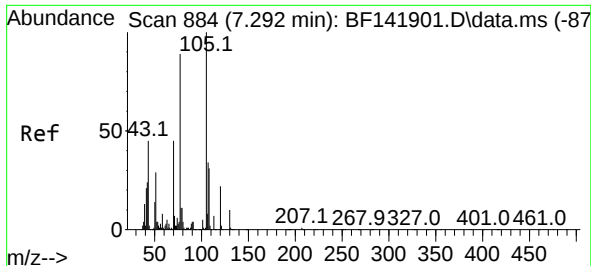
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

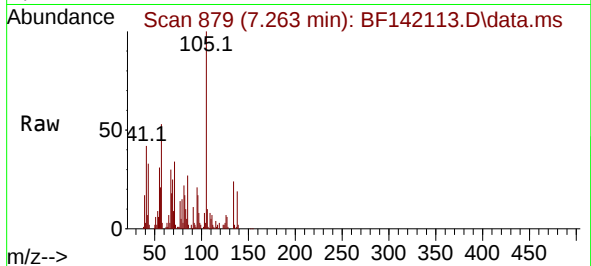
Tgt Ion:136 Resp: 407447
Ion Ratio Lower Upper
136 100
137 11.4 8.8 13.2
54 7.5 5.8 8.8
68 5.8 4.1 6.1





#22
Acetophenone
Concen: 4.754 ng
RT: 7.263 min Scan# 81
Delta R.T. -0.029 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

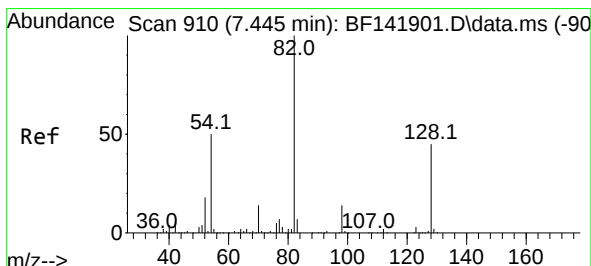
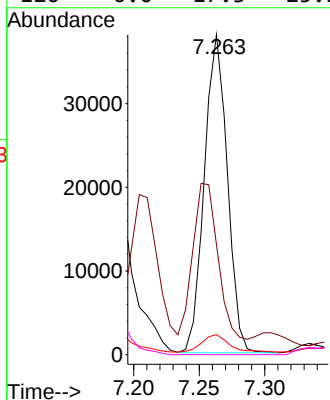
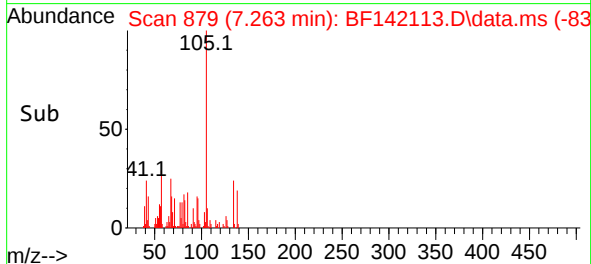
Instrument :
BNA_F
ClientSampleId :
EO-02-032525



Tgt Ion: 105 Resp: 46384
Ion Ratio Lower Upper
105 100
71 34.4 5.8 8.8
51 6.2 23.4 35.0
120 0.0 17.3 25.9

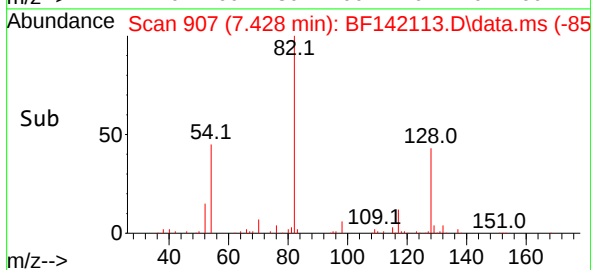
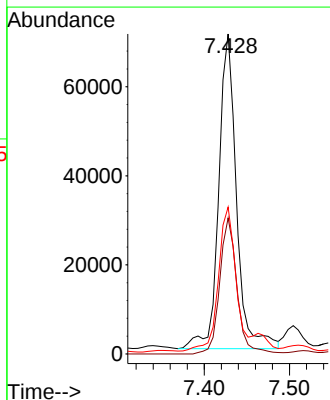
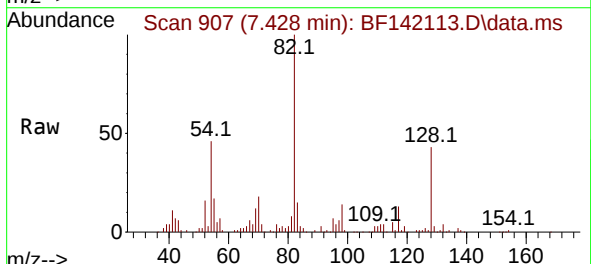
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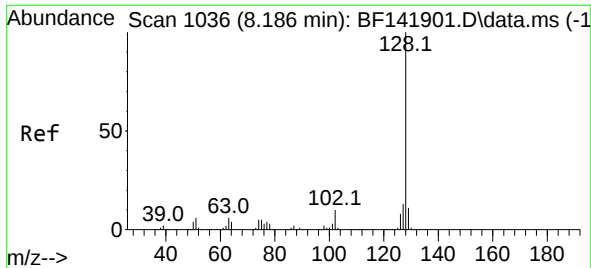
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#23
Nitrobenzene-d5
Concen: 14.206 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.017 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

Tgt Ion: 82 Resp: 102857
Ion Ratio Lower Upper
82 100
128 42.5 36.0 54.0
54 45.9 39.6 59.4





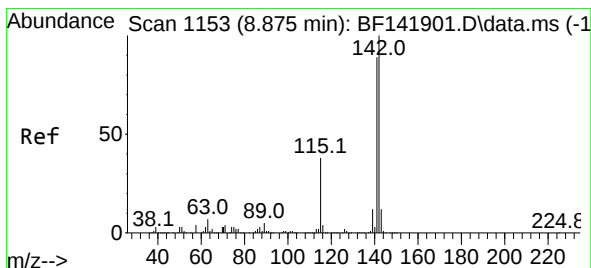
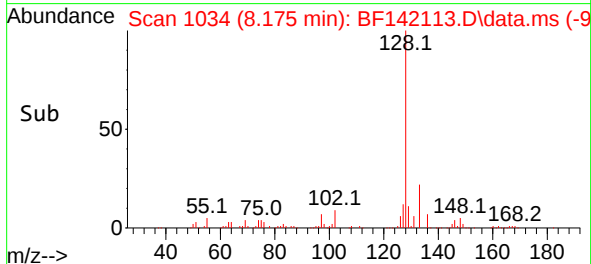
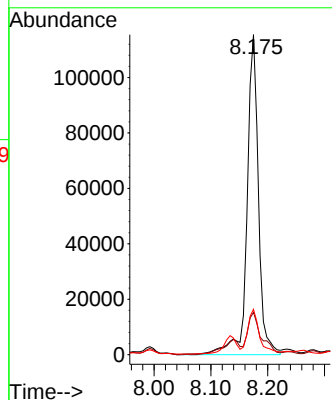
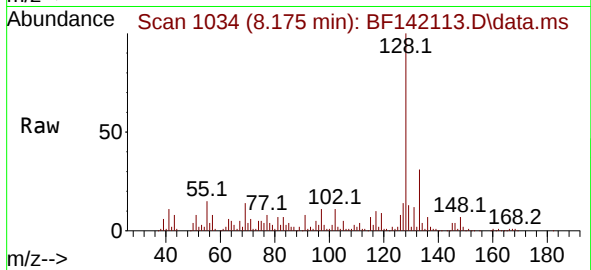
#31
Naphthalene
Concen: 7.736 ng
RT: 8.175 min Scan# 1036
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

Instrument :
BNA_F
ClientSampleId :
EO-02-032525

Tgt Ion:128 Resp: 161900
Ion Ratio Lower Upper
128 100
129 13.3 9.0 13.6
127 14.2 10.8 16.2

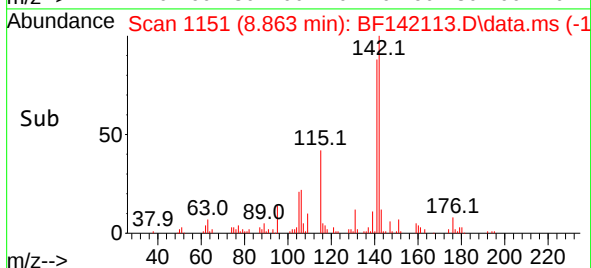
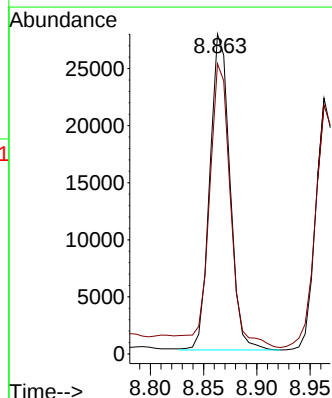
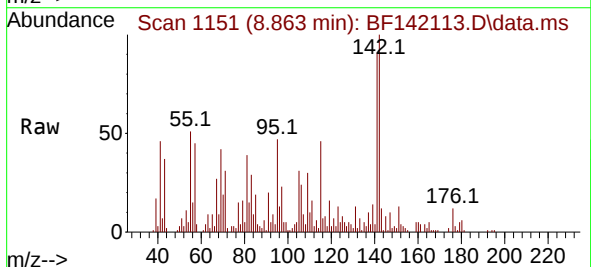
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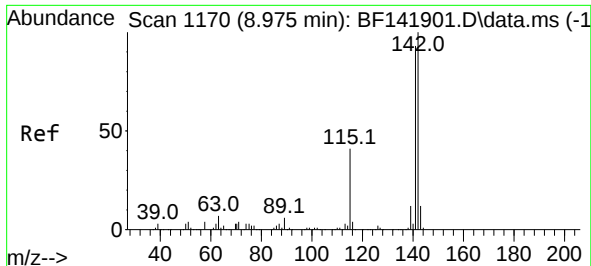
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#37
2-Methylnaphthalene
Concen: 2.590 ng
RT: 8.863 min Scan# 1151
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

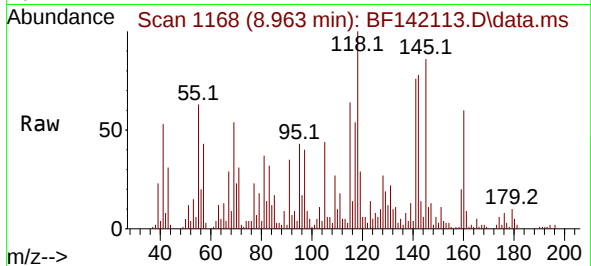
Tgt Ion:142 Resp: 36229
Ion Ratio Lower Upper
142 100
141 90.7 71.2 106.8





#38
1-Methylnaphthalene
Concen: 2.170 ng
RT: 8.963 min Scan# 1168
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

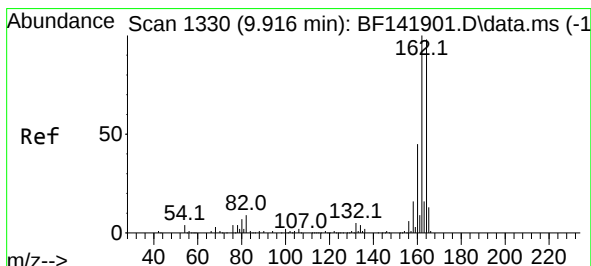
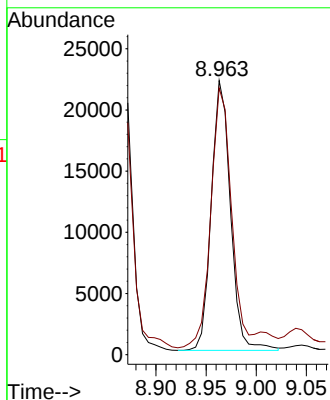
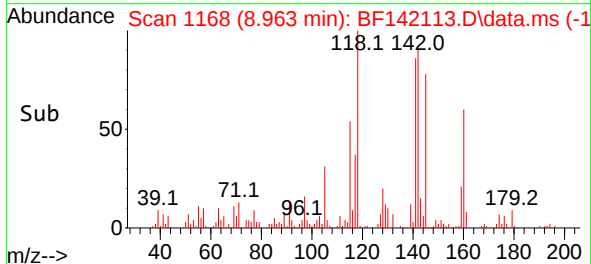
Instrument :
BNA_F
ClientSampleId :
EO-02-032525



Tgt Ion:142 Resp: 2929
Ion Ratio Lower Upper
142 100
141 97.3 74.2 111.4

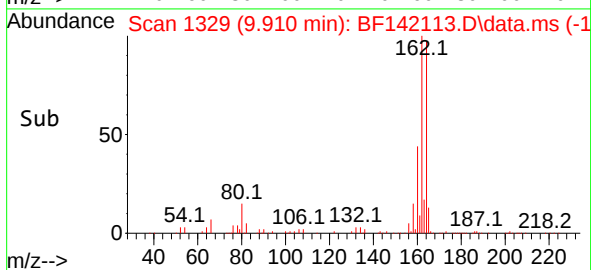
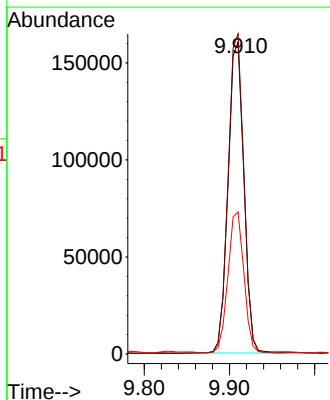
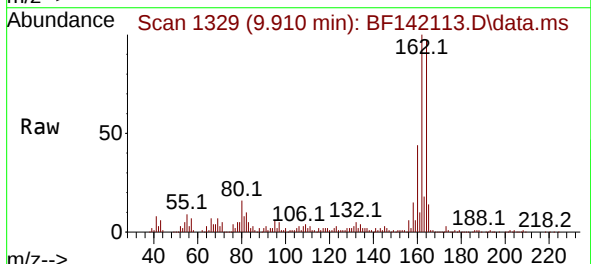
Manual Integrations
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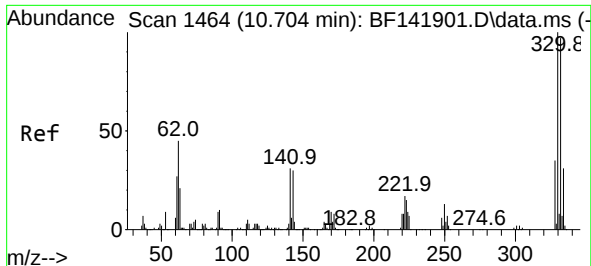
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

Tgt Ion:164 Resp: 206500
Ion Ratio Lower Upper
164 100
162 102.7 81.8 122.6
160 45.6 36.7 55.1





#42
2,4,6-Tribromophenol
Concen: 17.127 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

Instrument :

BNA_F

ClientSampleId :

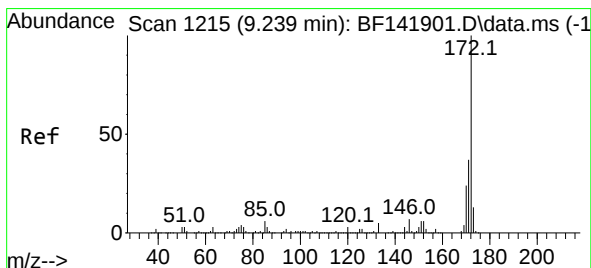
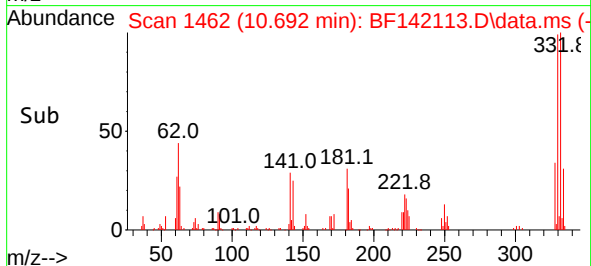
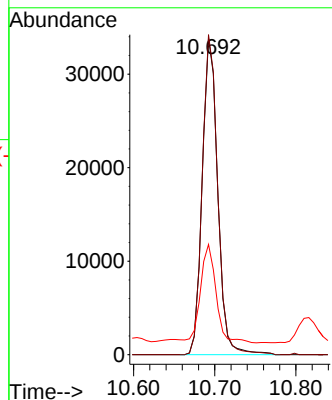
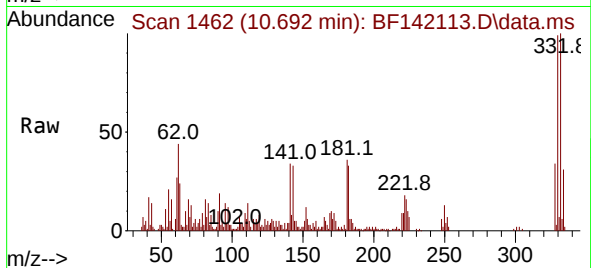
EO-02-032525

Tgt Ion:330 Resp: 4486
Ion Ratio Lower Upper
330 100
332 100.5 77.6 116.4
141 31.2 24.7 37.1

Manual Integrations

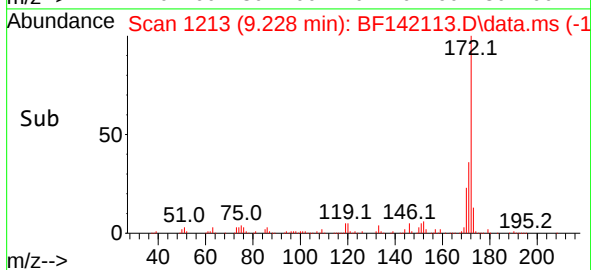
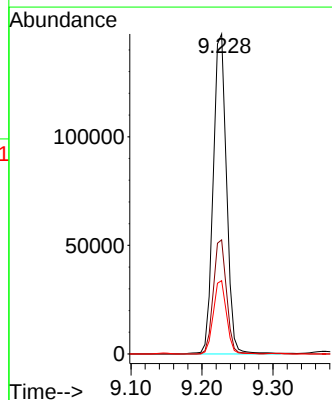
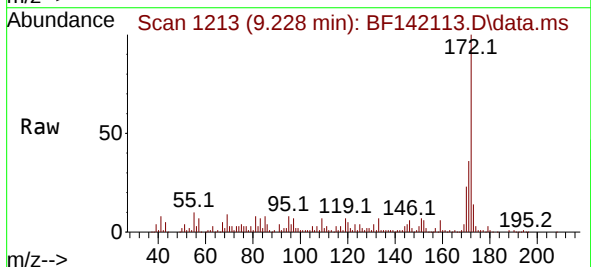
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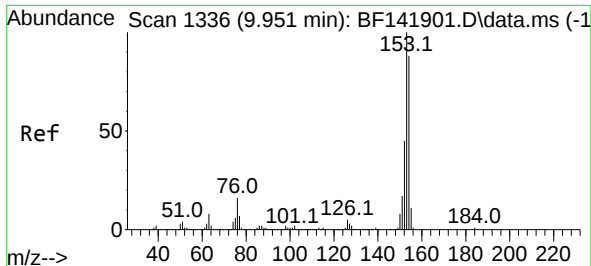
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#45
2-Fluorobiphenyl
Concen: 14.137 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

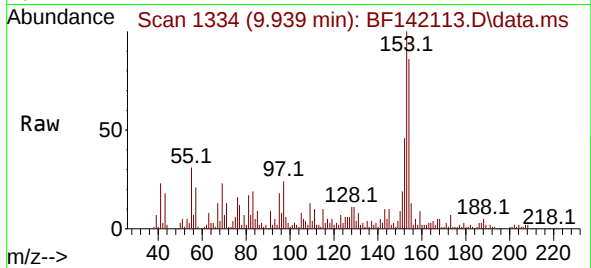
Tgt Ion:172 Resp: 191956
Ion Ratio Lower Upper
172 100
171 35.7 29.3 43.9
170 22.9 19.4 29.0





#52
Acenaphthene
Concen: 4.517 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

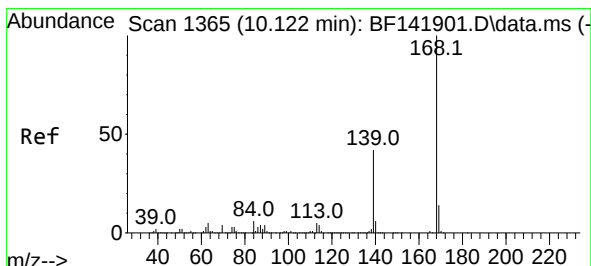
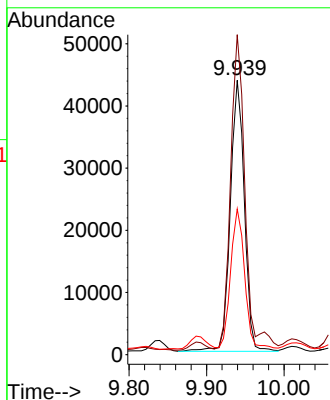
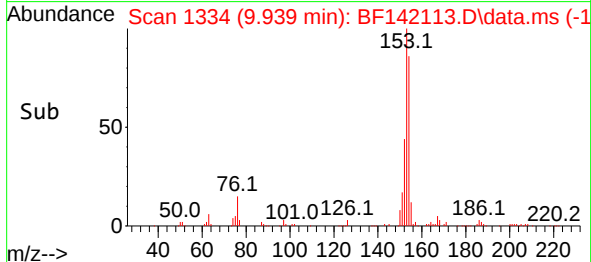
Instrument :
BNA_F
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EO-02-032525



Tgt Ion:154 Resp: 55086
Ion Ratio Lower Upper
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153 116.6 90.7 136.1
152 53.1 41.1 61.7

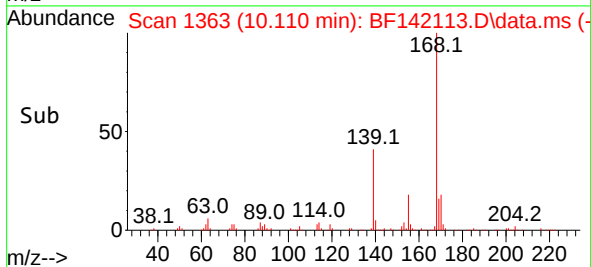
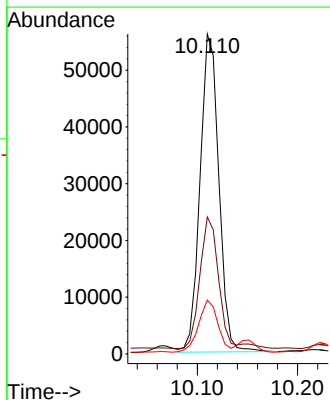
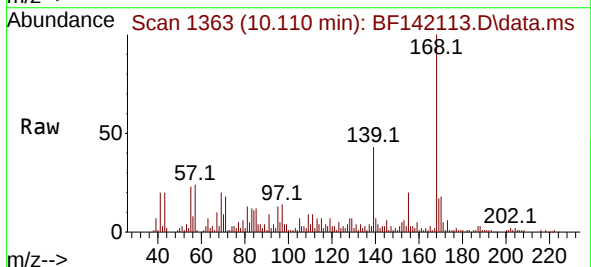
Manual Integrations
APPROVED

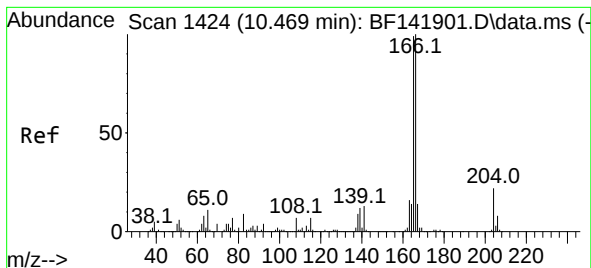
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#55
Dibenzofuran
Concen: 4.190 ng
RT: 10.110 min Scan# 1363
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

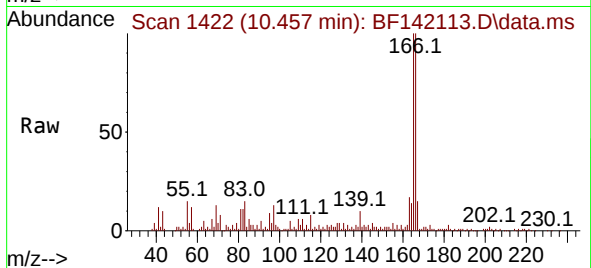
Tgt Ion:168 Resp: 73023
Ion Ratio Lower Upper
168 100
139 42.8 33.9 50.9
169 16.9 11.0 16.4#





#58
Fluorene
Concen: 6.517 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

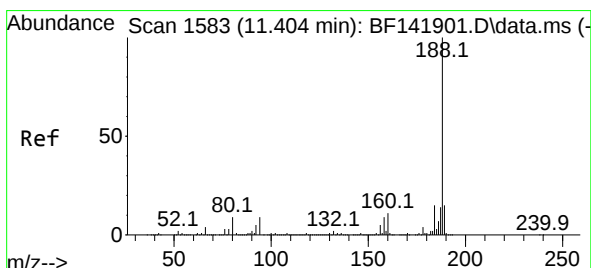
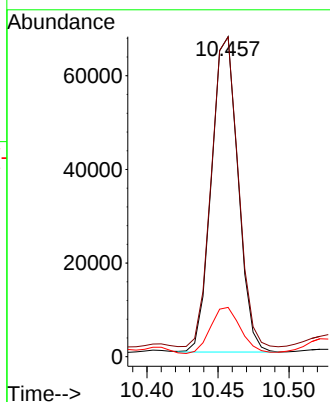
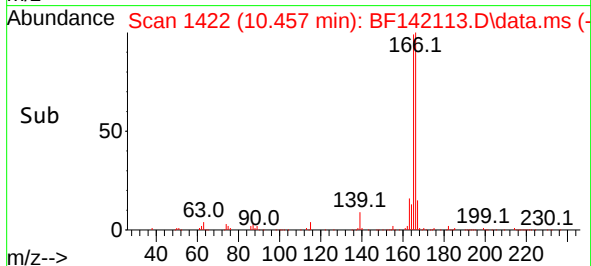
Instrument :
BNA_F
ClientSampleId :
EO-02-032525



Tgt Ion:166 Resp: 87584
Ion Ratio Lower Upper
166 100
165 99.9 79.0 118.4
167 15.4 11.0 16.4

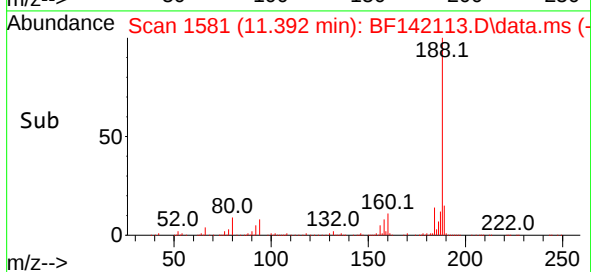
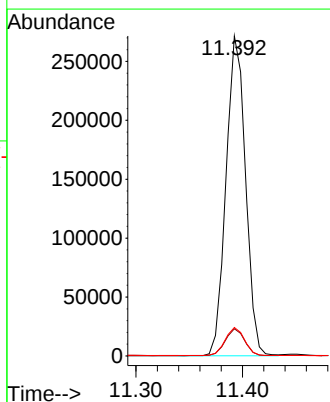
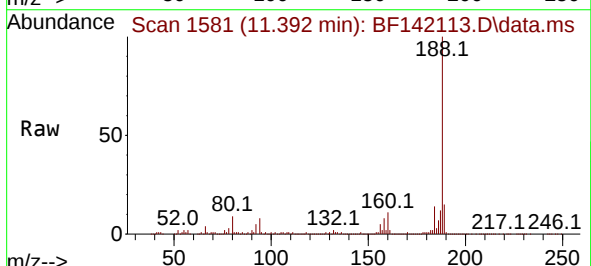
Manual Integrations
APPROVED

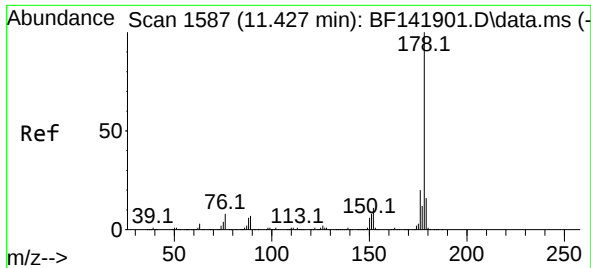
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

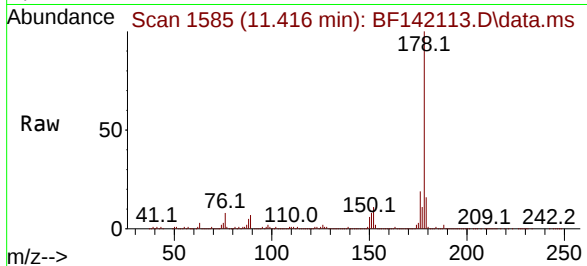
Tgt Ion:188 Resp: 345743
Ion Ratio Lower Upper
188 100
94 8.5 6.8 10.2
80 8.9 7.6 11.4





#71
Phenanthrene
Concen: 33.124 ng
RT: 11.416 min Scan# 1585
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

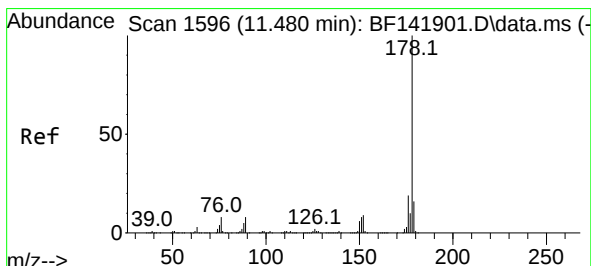
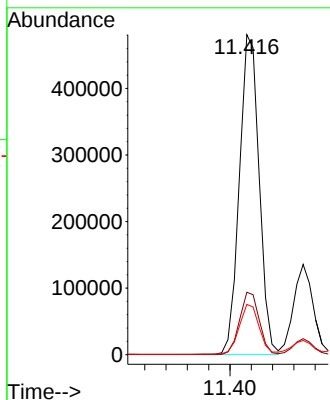
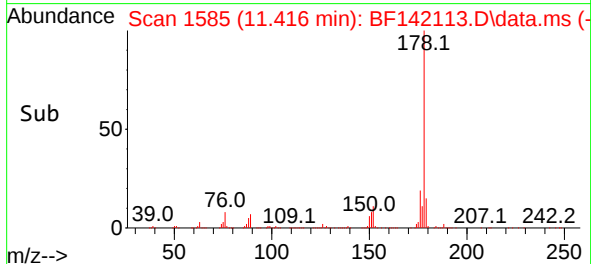
Instrument :
BNA_F
ClientSampleId :
EO-02-032525



Tgt Ion:178 Resp: 61858
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.7 12.6 19.0

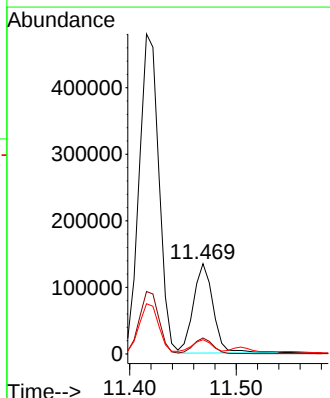
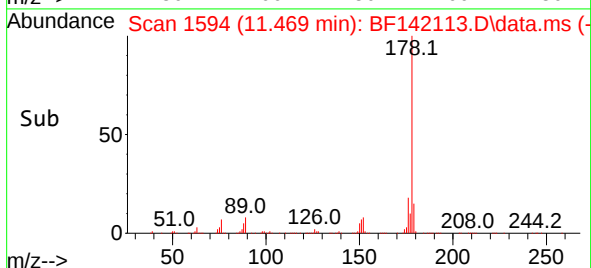
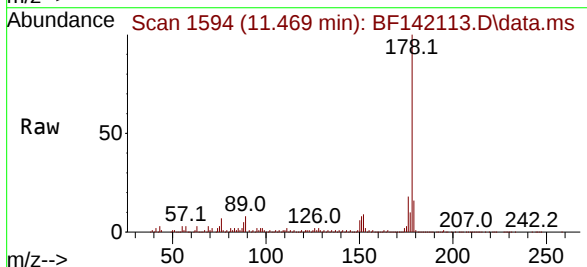
Manual Integrations
APPROVED

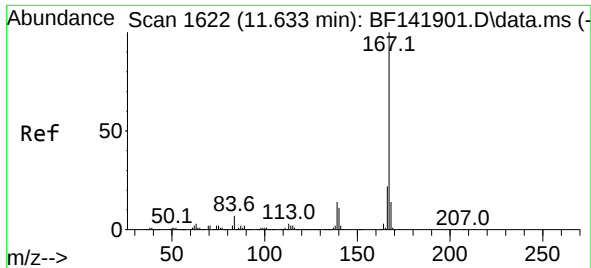
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#72
Anthracene
Concen: 9.216 ng
RT: 11.469 min Scan# 1594
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

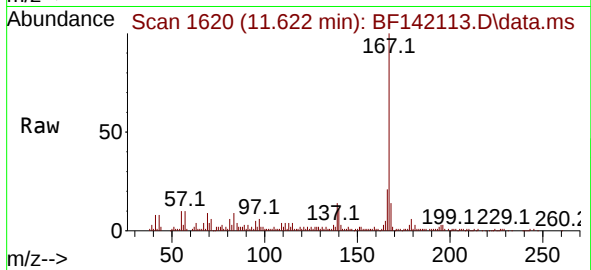
Tgt Ion:178 Resp: 172669
Ion Ratio Lower Upper
178 100
176 17.8 15.1 22.7
179 15.9 12.6 19.0





#73
 Carbazole
 Concen: 3.644 ng
 RT: 11.622 min Scan# 1622
 Delta R.T. -0.012 min
 Lab File: BF142113.D
 Acq: 26 Mar 2025 23:05

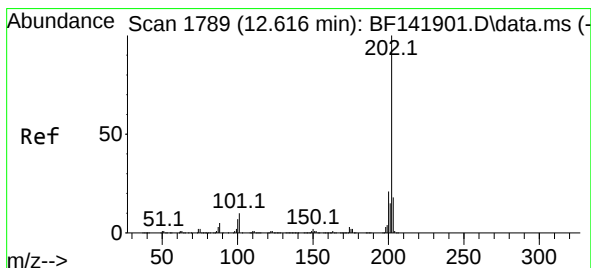
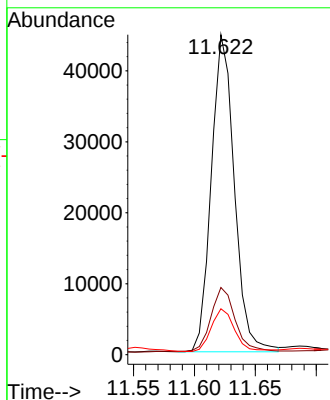
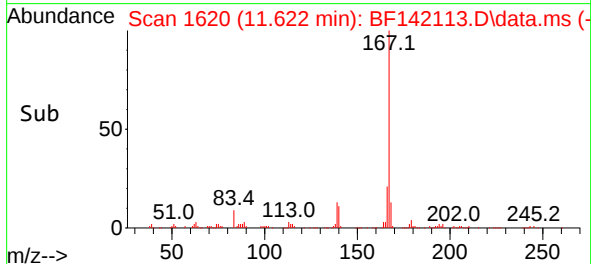
Instrument :
 BNA_F
 ClientSampleId :
 EO-02-032525



Tgt Ion:167 Resp: 58880
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.4 26.2
 139 14.3 11.0 16.6

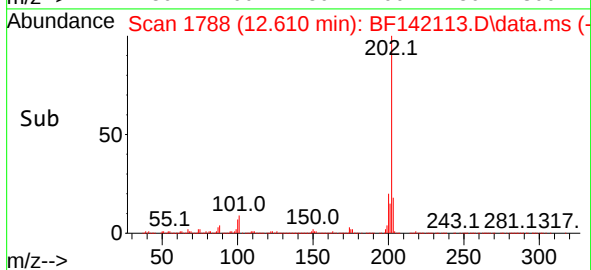
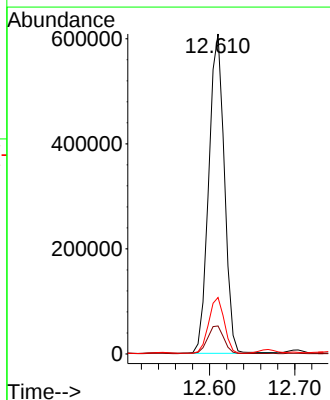
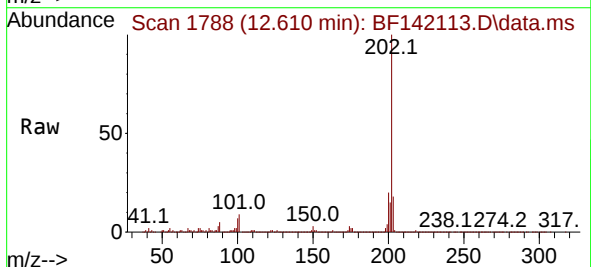
Manual Integrations
 APPROVED

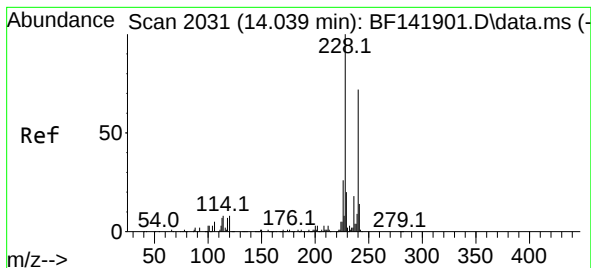
Reviewed By :Anahy Claudio 03/27/2025
 Supervised By :Jagrut Upadhyay 03/27/2025



#75
 Fluoranthene
 Concen: 39.126 ng
 RT: 12.610 min Scan# 1788
 Delta R.T. -0.006 min
 Lab File: BF142113.D
 Acq: 26 Mar 2025 23:05

Tgt Ion:202 Resp: 775067
 Ion Ratio Lower Upper
 202 100
 101 8.8 0.0 29.7
 203 17.7 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF142113.D

Acq: 26 Mar 2025 23:05

Instrument :

BNA_F

ClientSampleId :

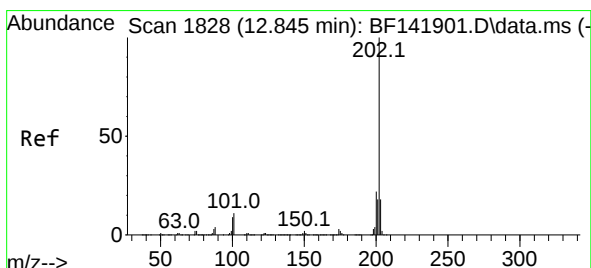
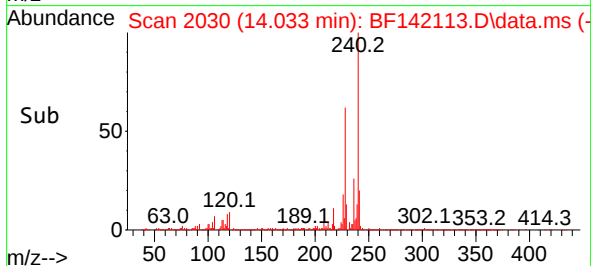
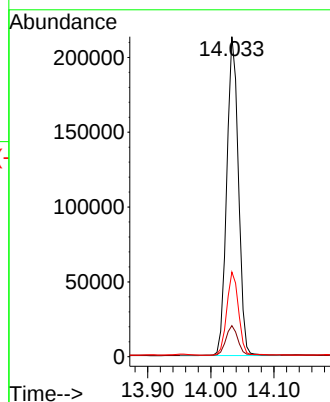
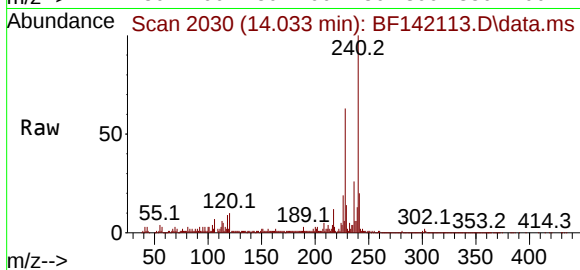
EO-02-032525

Tgt Ion:240 Resp: 273824
 Ion Ratio Lower Upper
 240 100
 120 9.7 8.4 12.6
 236 26.5 20.5 30.7

Manual Integrations

APPROVED

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



#78

Pyrene

Concen: 26.993 ng

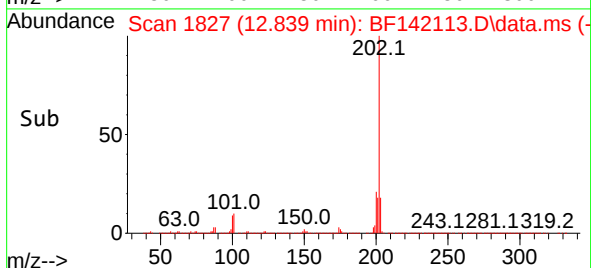
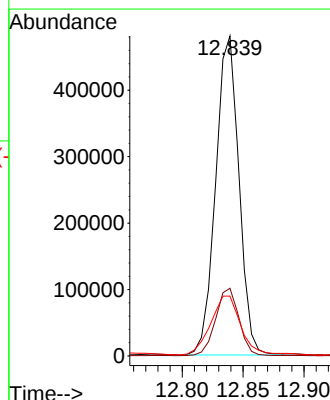
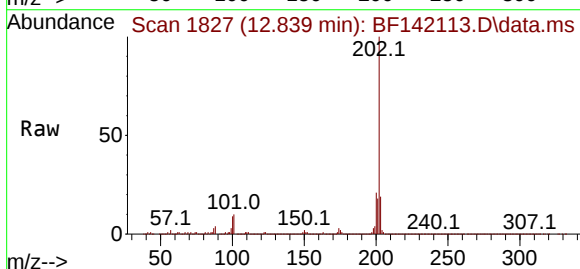
RT: 12.839 min Scan# 1827

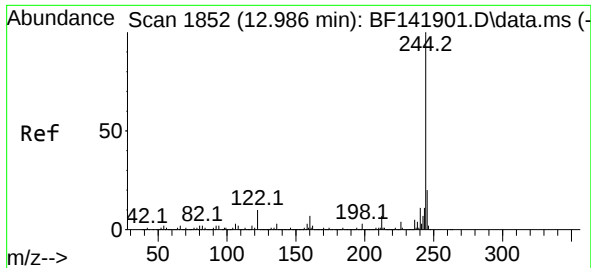
Delta R.T. -0.006 min

Lab File: BF142113.D

Acq: 26 Mar 2025 23:05

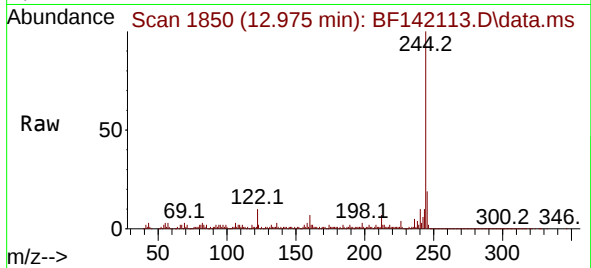
Tgt Ion:202 Resp: 639355
 Ion Ratio Lower Upper
 202 100
 200 21.2 17.3 25.9
 203 18.7 14.4 21.6





#79
 Terphenyl-d14
 Concen: 12.082 ng
 RT: 12.975 min Scan# 1850
 Delta R.T. -0.012 min
 Lab File: BF142113.D
 Acq: 26 Mar 2025 23:05

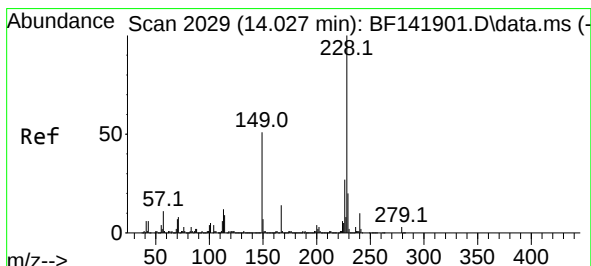
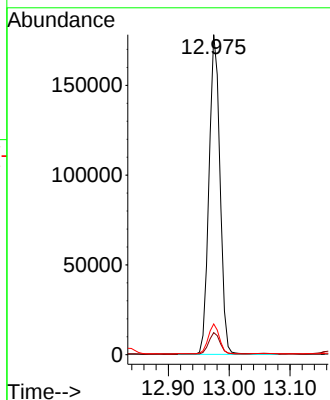
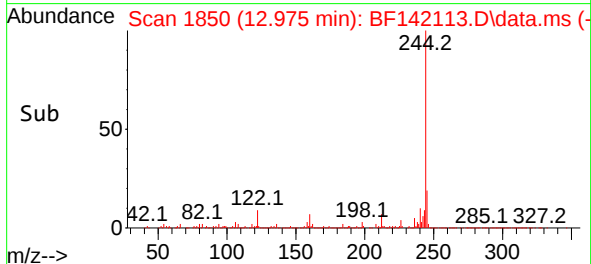
Instrument :
 BNA_F
 ClientSampleId :
 EO-02-032525



Tgt Ion:244 Resp: 223774
 Ion Ratio Lower Upper
 244 100
 212 6.9 6.0 9.0
 122 9.6 7.7 11.5

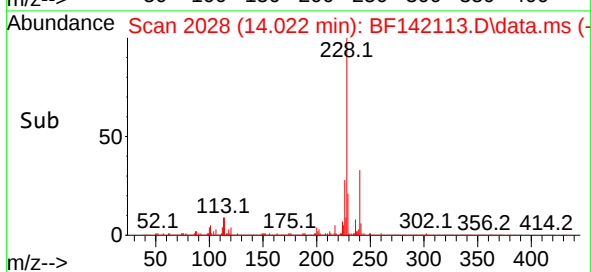
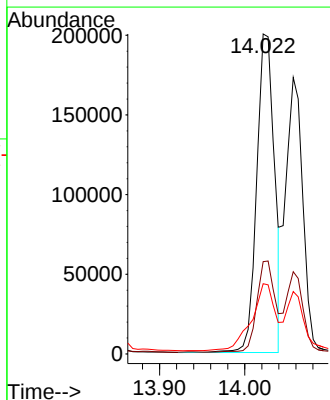
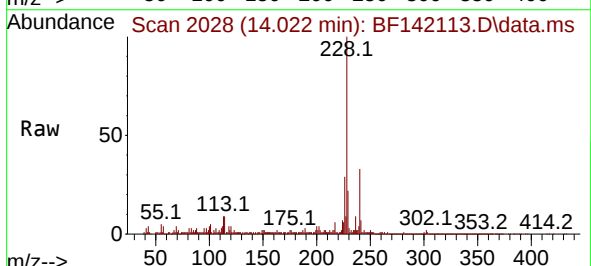
Manual Integrations
 APPROVED

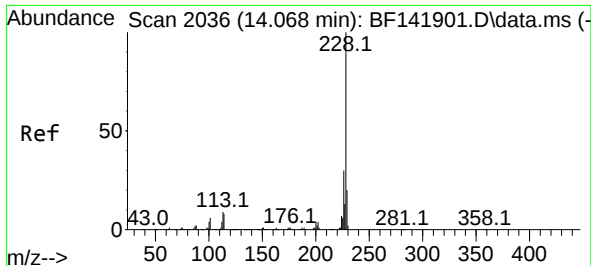
Reviewed By :Anahy Claudio 03/27/2025
 Supervised By :Jagrut Upadhyay 03/27/2025



#81
 Benzo(a)anthracene
 Concen: 16.078 ng
 RT: 14.022 min Scan# 2028
 Delta R.T. -0.006 min
 Lab File: BF142113.D
 Acq: 26 Mar 2025 23:05

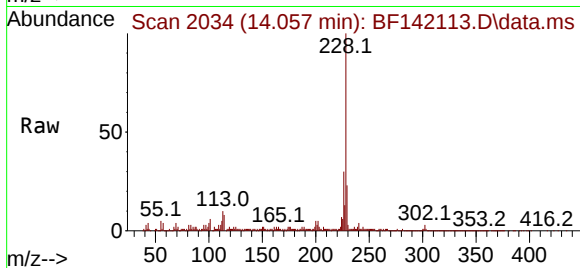
Tgt Ion:228 Resp: 288895
 Ion Ratio Lower Upper
 228 100
 226 28.8 21.8 32.8
 229 21.9 16.0 24.0





#83
Chrysene
Concen: 14.566 ng
RT: 14.057 min Scan# 2036
Delta R.T. -0.012 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

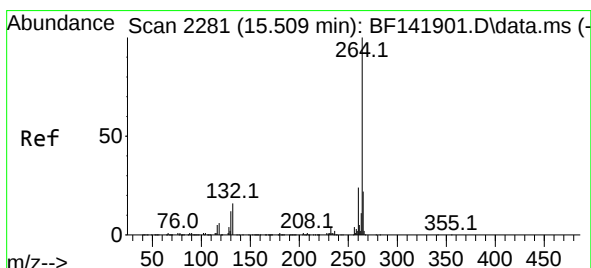
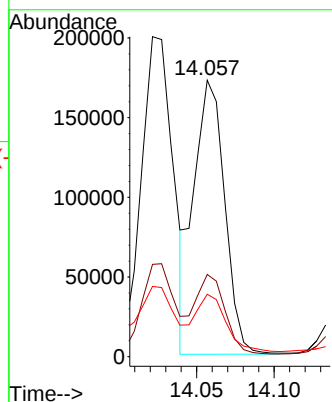
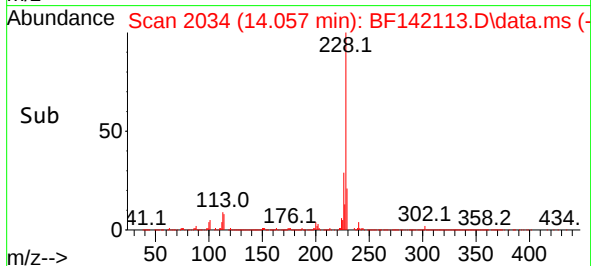
Instrument :
BNA_F
ClientSampleId :
EO-02-032525



Tgt Ion:228 Resp: 237248
Ion Ratio Lower Upper
228 100
226 29.8 24.1 36.1
229 22.6 15.7 23.5

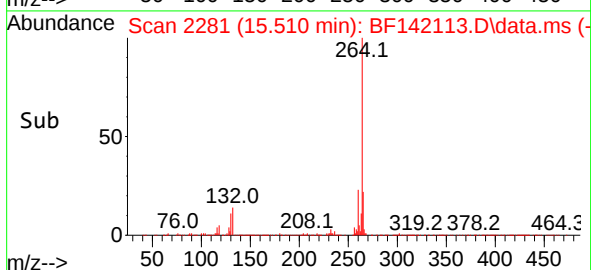
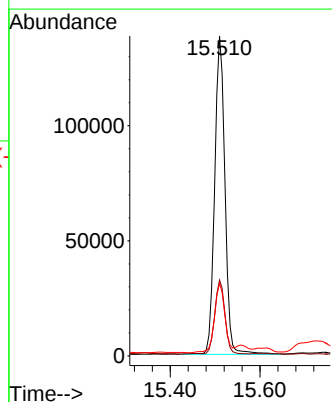
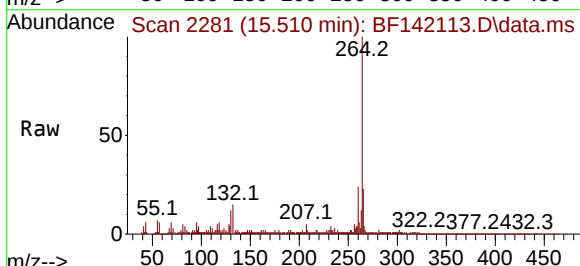
Manual Integrations
APPROVED

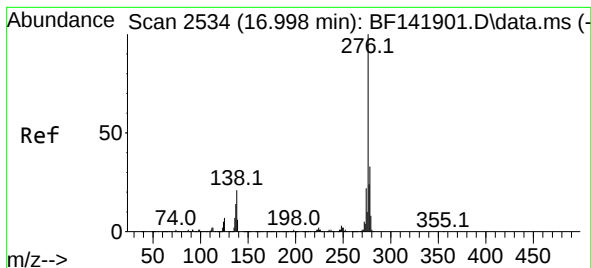
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.510 min Scan# 2281
Delta R.T. 0.000 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

Tgt Ion:264 Resp: 220106
Ion Ratio Lower Upper
264 100
260 23.7 19.1 28.7
265 22.7 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 6.669 ng

RT: 16.992 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142113.D

Acq: 26 Mar 2025 23:05

Instrument :

BNA_F

ClientSampleId :

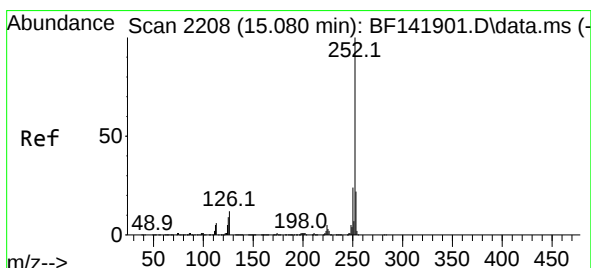
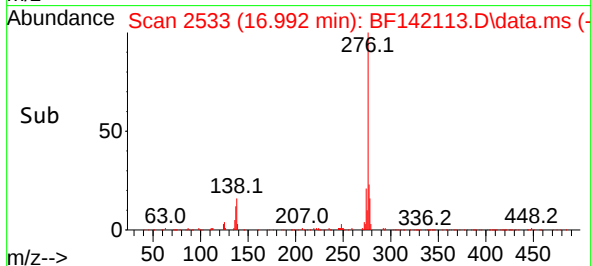
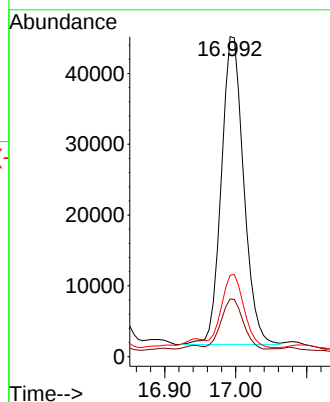
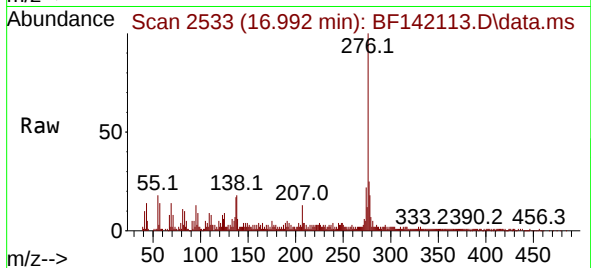
EO-02-032525

Tgt Ion:276 Resp: 94958
 Ion Ratio Lower Upper
 276 100
 138 16.7 18.4 27.6
 277 24.2 20.3 30.5

Manual Integrations

APPROVED

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



#88

Benzo(b)fluoranthene

Concen: 16.080 ng m

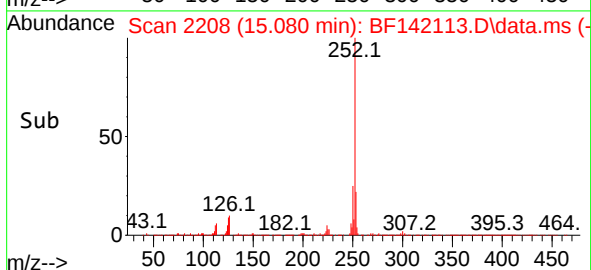
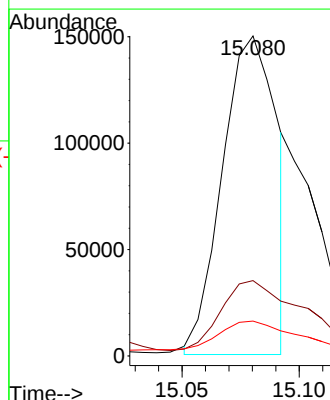
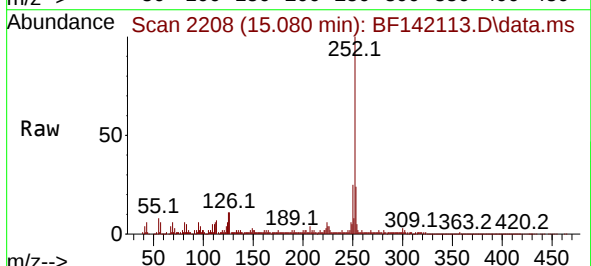
RT: 15.080 min Scan# 2208

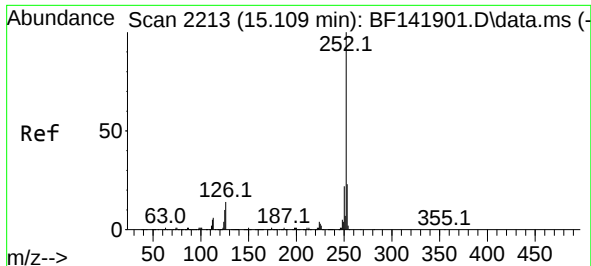
Delta R.T. 0.000 min

Lab File: BF142113.D

Acq: 26 Mar 2025 23:05

Tgt Ion:252 Resp: 242569
 Ion Ratio Lower Upper
 252 100
 253 23.5 17.5 26.3
 125 10.9 7.0 10.4





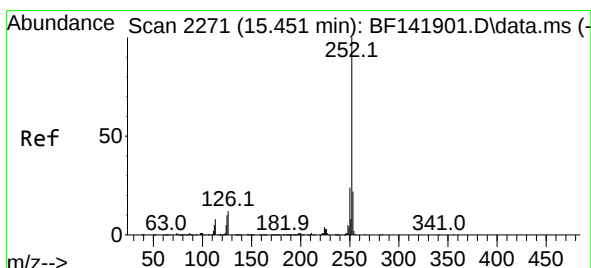
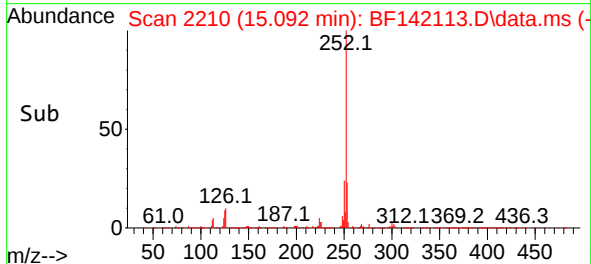
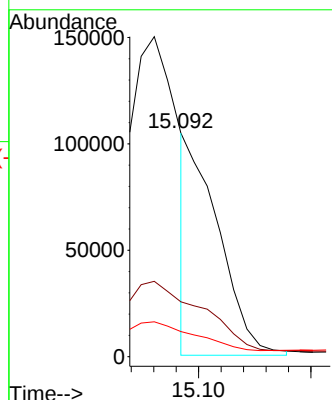
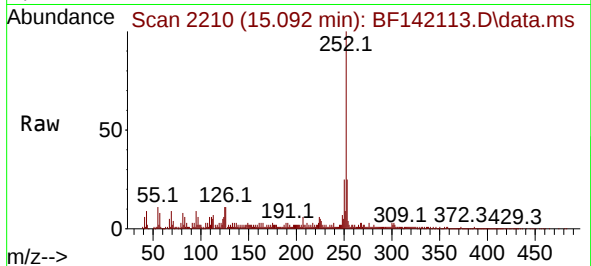
#89
Benzo(k)fluoranthene
Concen: 7.652 ng m
RT: 15.092 min Scan# 21
Delta R.T. -0.017 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

Instrument :
BNA_F
ClientSampleId :
EO-02-032525

Tgt Ion:252 Resp: 98789
Ion Ratio Lower Upper
252 100
253 24.5 17.7 26.5
125 11.2 7.2 10.8

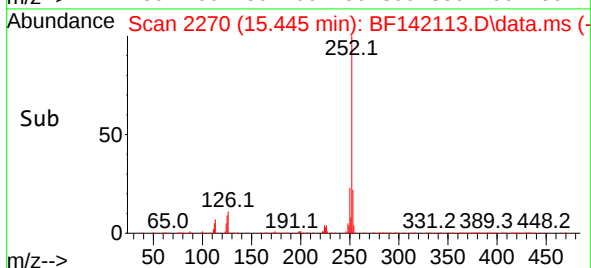
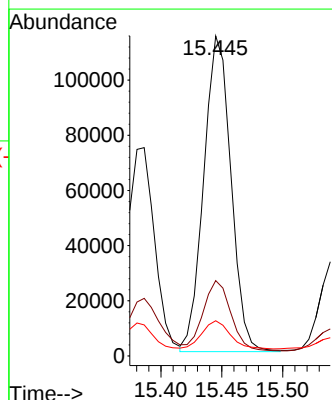
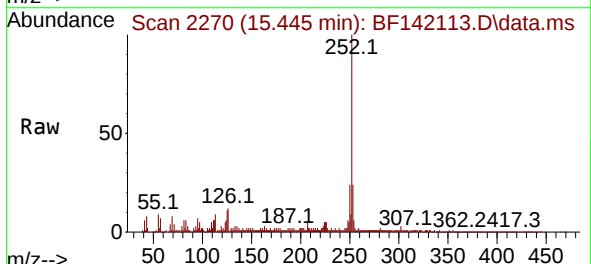
Manual Integrations
APPROVED

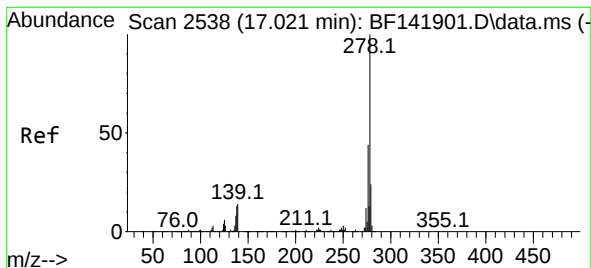
Reviewed By :Anahy Claudio 03/27/2025
Supervised By :Jagrut Upadhyay 03/27/2025



#90
Benzo(a)pyrene
Concen: 15.099 ng
RT: 15.445 min Scan# 2270
Delta R.T. -0.006 min
Lab File: BF142113.D
Acq: 26 Mar 2025 23:05

Tgt Ion:252 Resp: 178224
Ion Ratio Lower Upper
252 100
253 23.6 17.4 26.0
125 11.0 7.8 11.8





#91

Dibenzo(a,h)anthracene

Concen: 2.062 ng

RT: 17.004 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF142113.D

Acq: 26 Mar 2025 23:05

Instrument :

BNA_F

ClientSampleId :

EO-02-032525

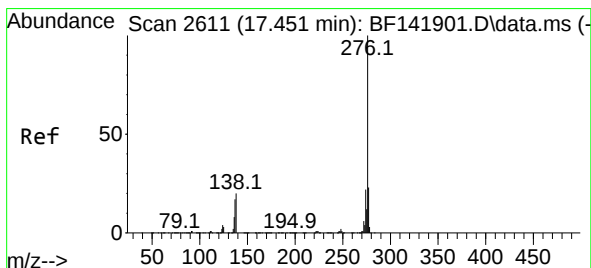
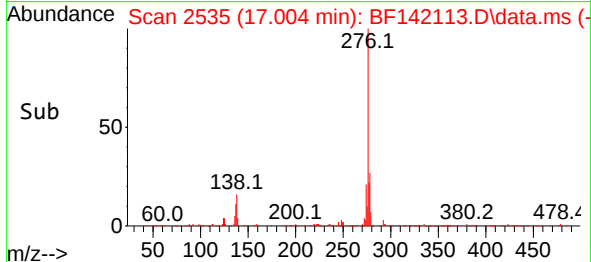
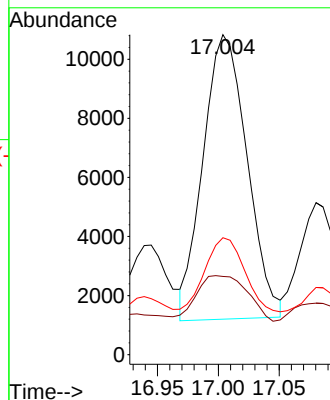
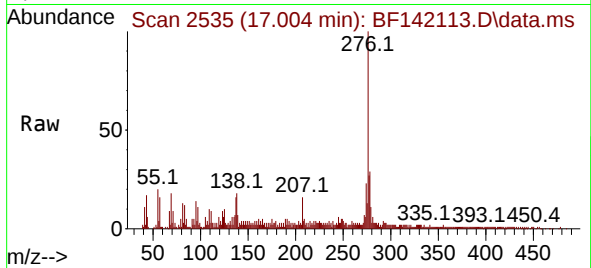
Tgt Ion:	278	Resp:	2422
Ion Ratio	Lower	Upper	
278	100		
139	24.4	11.4	17.2
279	36.5	18.8	28.2

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/27/2025

Supervised By :Jagrut Upadhyay 03/27/2025



#92

Benzo(g,h,i)perylene

Concen: 7.758 ng

RT: 17.445 min Scan# 2610

Delta R.T. -0.006 min

Lab File: BF142113.D

Acq: 26 Mar 2025 23:05

Tgt Ion:	276	Resp:	90062
Ion Ratio	Lower	Upper	
276	100		
277	24.1	18.7	28.1
138	19.4	15.8	23.8

