

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032825\
 Data File : BF142167.D
 Acq On : 28 Mar 2025 18:33
 Operator : RC/JU
 Sample : Q1657-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11998

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/31/2025
 Supervised By :Jagrut Upadhyay 03/31/2025

Quant Time: Mar 28 22:47:33 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	138546	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	525212	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	269018	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	373194	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	290157	20.000	ng	0.00
86) Perylene-d12	15.510	264	239184	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	806571	97.162	ng	0.00
7) Phenol-d6	6.498	99	1082646	102.432	ng	0.00
23) Nitrobenzene-d5	7.434	82	711848	76.274	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	260472	76.321	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1383679	78.222	ng	-0.01
79) Terphenyl-d14	12.980	244	1255374	63.966	ng	0.00
Target Compounds						Qvalue
38) 1-Methylnaphthalene	8.963	142	95683	5.498	ng	99
46) 1,1'-Biphenyl	9.328	154	112946	5.526	ng	99
52) Acenaphthene	9.939	154	413222	26.008	ng	100
55) Dibenzofuran	10.110	168	431405	19.003	ng	98
58) Fluorene	10.457	166	438357	25.038	ng	99
71) Phenanthrene	11.422	178	1695211	84.099	ng	100
72) Anthracene	11.469	178	231358	11.440	ng	99
75) Fluoranthene	12.610	202	870391	40.706	ng	99
78) Pyrene	12.839	202	607686	24.212	ng	99
81) Benzo(a)anthracene	14.027	228	238110	12.506	ng	98
83) Chrysene	14.057	228	157500	9.126	ng	98
87) Indeno(1,2,3-cd)pyrene	16.998	276	45153	2.918	ng	# 93
88) Benzo(b)fluoranthene	15.080	252	151434m	9.238	ng	
89) Benzo(k)fluoranthene	15.098	252	41987m	2.993	ng	
90) Benzo(a)pyrene	15.445	252	95315	7.431	ng	97
92) Benzo(g,h,i)perylene	17.445	276	43438	3.443	ng	97

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

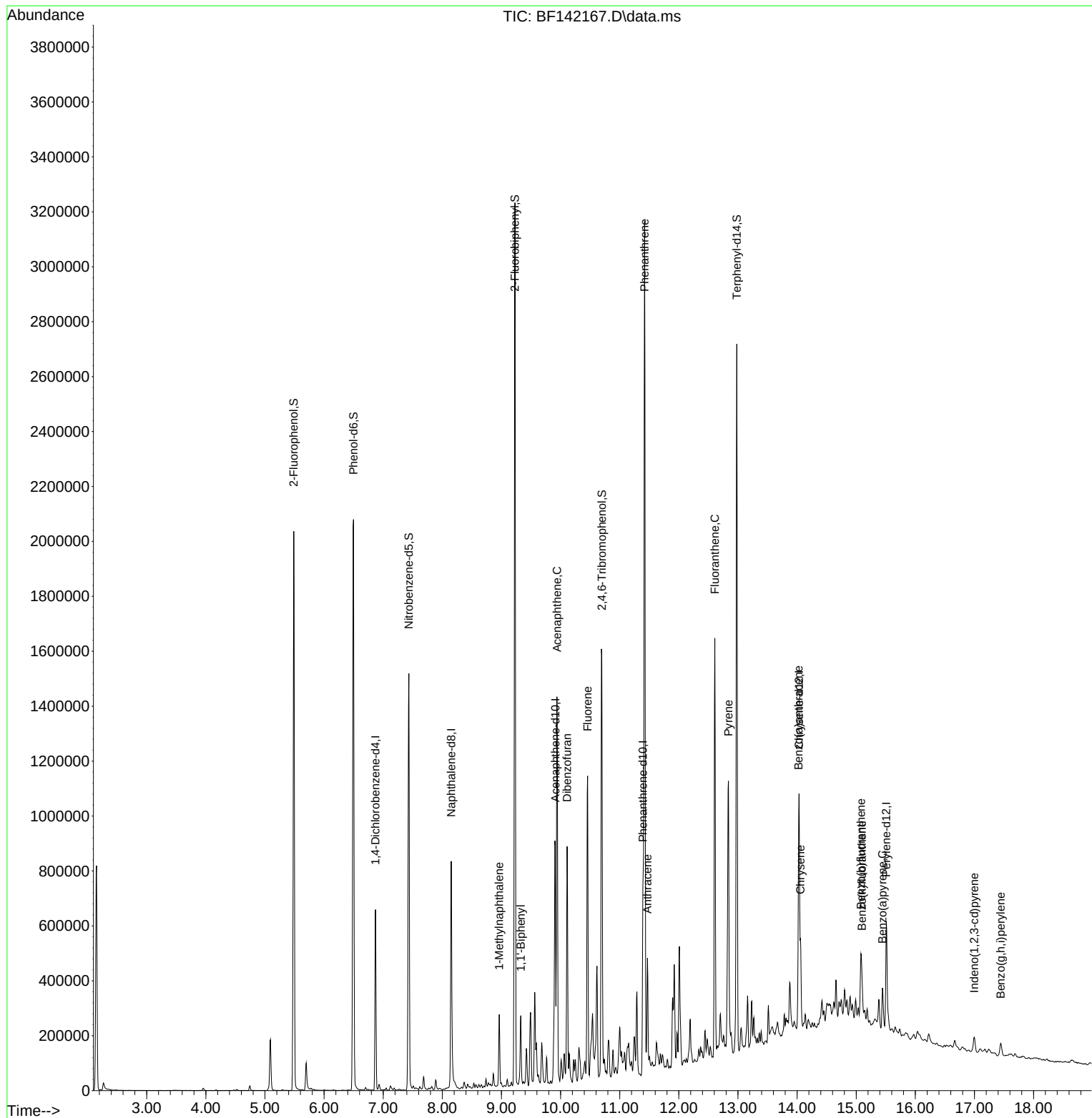
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032825\
Data File : BF142167.D
Acq On : 28 Mar 2025 18:33
Operator : RC/JU
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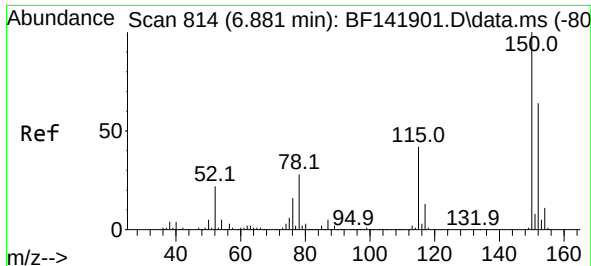
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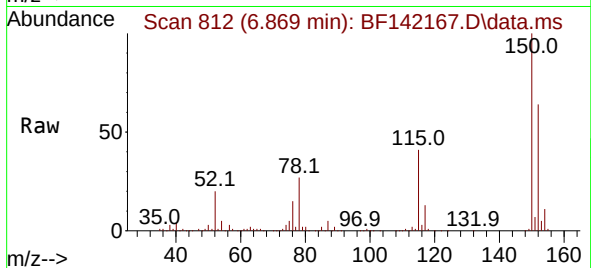
Quant Time: Mar 28 22:47:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

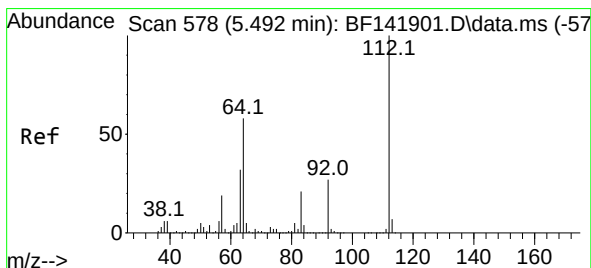
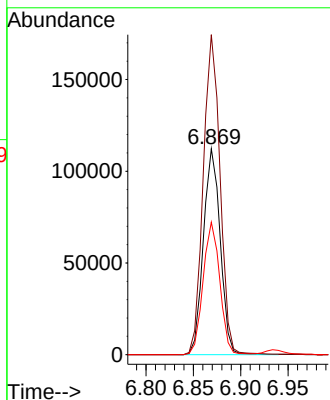
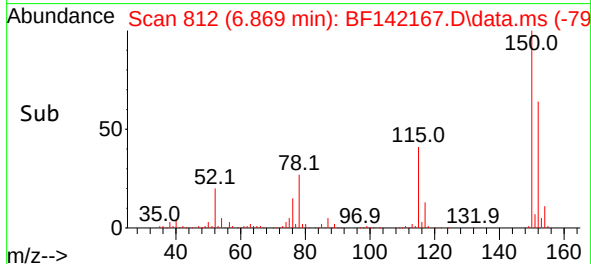
Instrument :
BNA_F
ClientSampleId :
72-11998



Tgt Ion:152 Resp: 138540
Ion Ratio Lower Upper
152 100
150 155.3 127.4 191.2
115 64.3 51.9 77.9

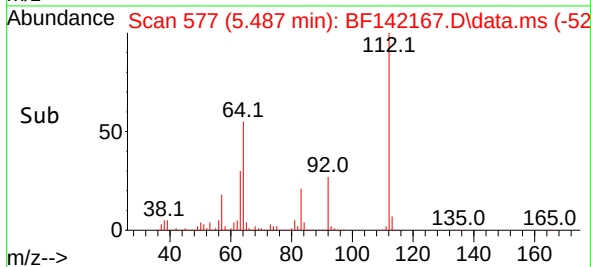
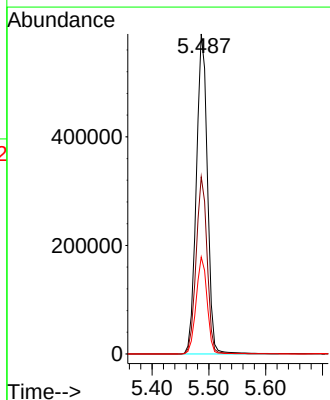
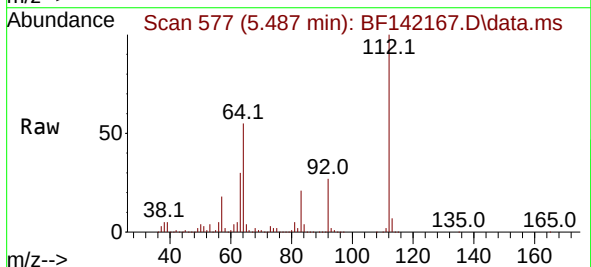
Manual Integrations
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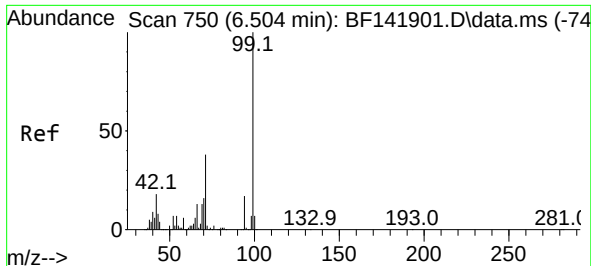
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#5
2-Fluorophenol
Concen: 97.162 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

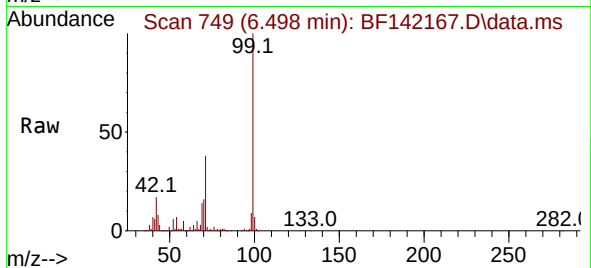
Tgt Ion:112 Resp: 806571
Ion Ratio Lower Upper
112 100
64 55.4 46.5 69.7
63 30.3 25.4 38.2





#7
Phenol-d6
Concen: 102.432 ng
RT: 6.498 min Scan# 749
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

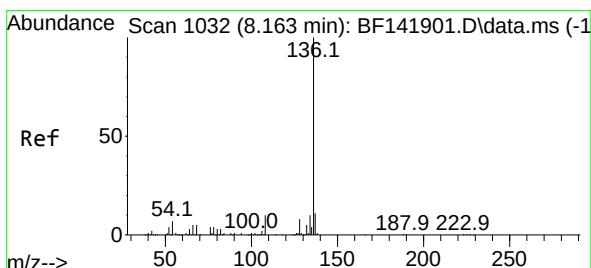
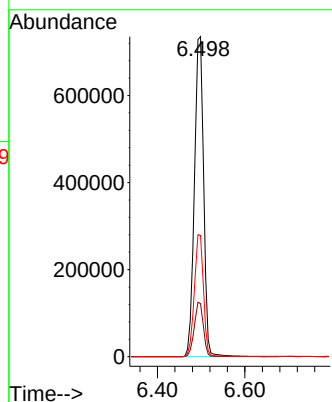
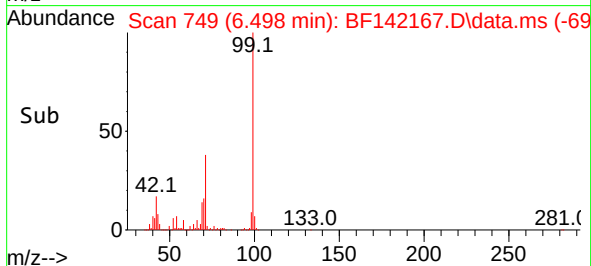
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 99 Resp: 1082640
Ion Ratio Lower Upper
99 100
42 16.6 14.6 21.8
71 37.9 30.8 46.2

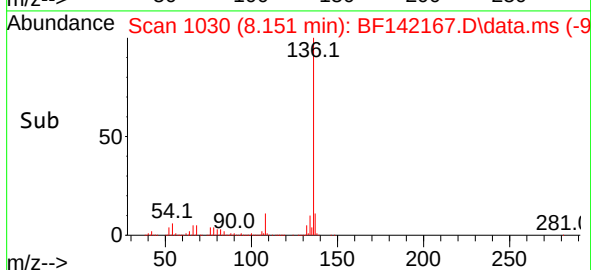
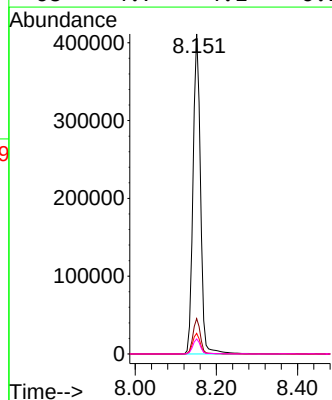
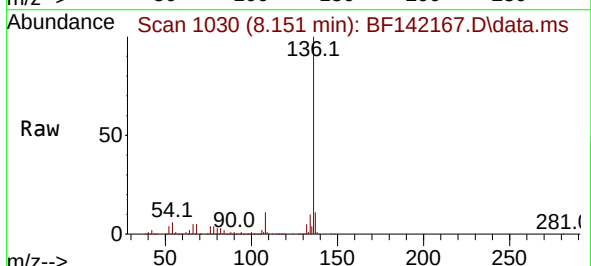
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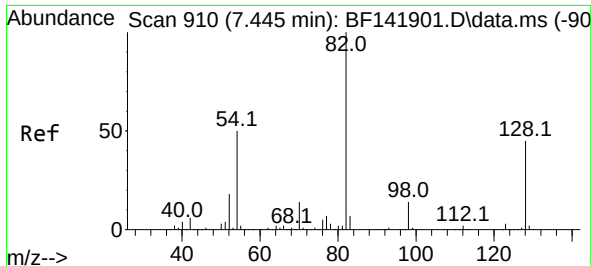
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

Tgt Ion:136 Resp: 525212
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 6.5 5.8 8.8
68 4.7 4.1 6.1





#23

Nitrobenzene-d5

Concen: 76.274 ng

RT: 7.434 min Scan# 90

Delta R.T. -0.012 min

Lab File: BF142167.D

Acq: 28 Mar 2025 18:33

Instrument :

BNA_F

ClientSampleId :

72-11998

Tgt Ion: 82 Resp: 71184

Ion Ratio Lower Upper

82 100

128 47.1 36.0 54.0

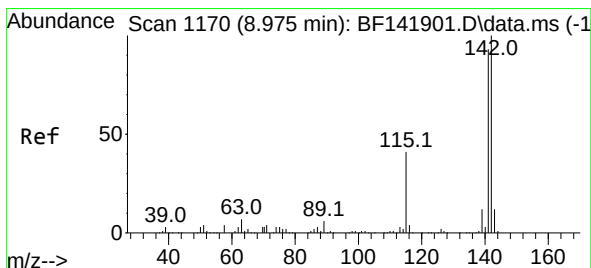
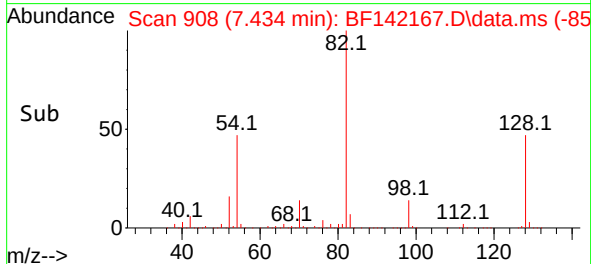
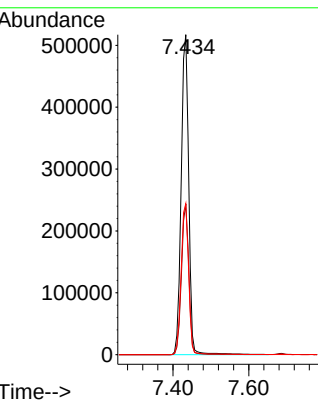
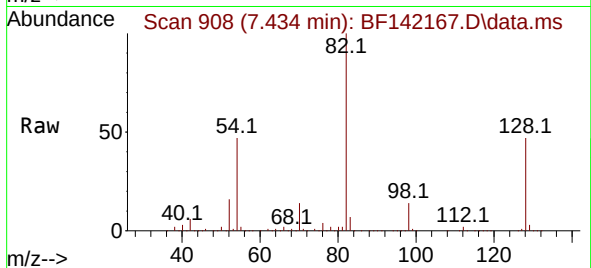
54 47.2 39.6 59.4

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#38

1-Methylnaphthalene

Concen: 5.498 ng

RT: 8.963 min Scan# 1168

Delta R.T. -0.012 min

Lab File: BF142167.D

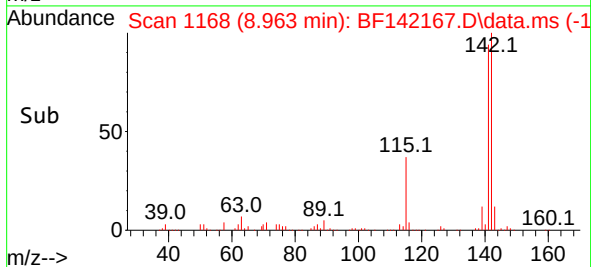
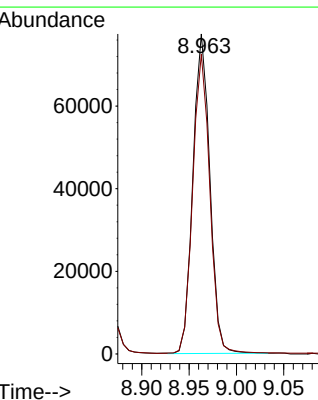
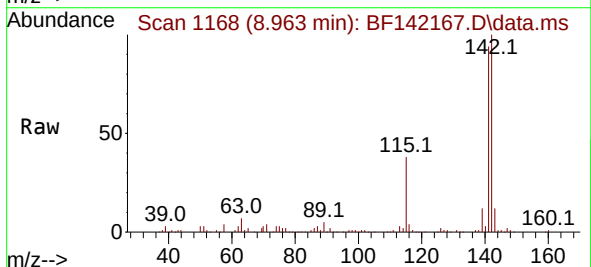
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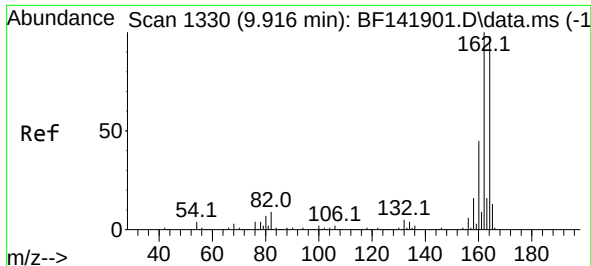
Tgt Ion:142 Resp: 95683

Ion Ratio Lower Upper

142 100

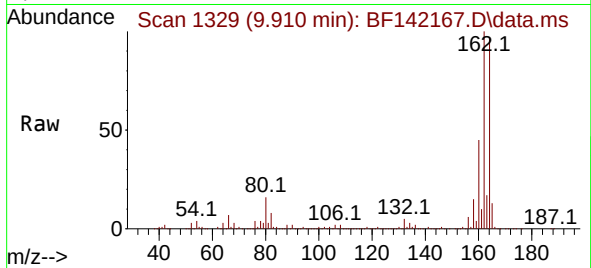
141 93.7 74.2 111.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

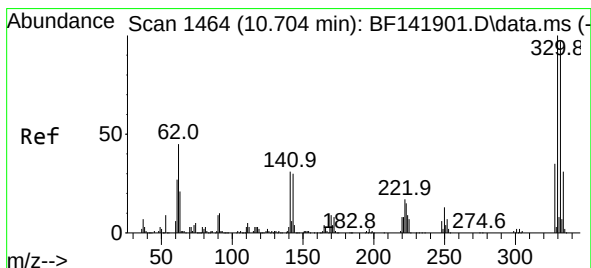
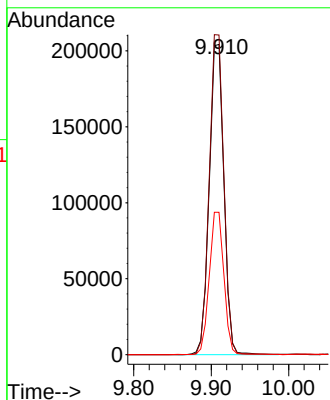
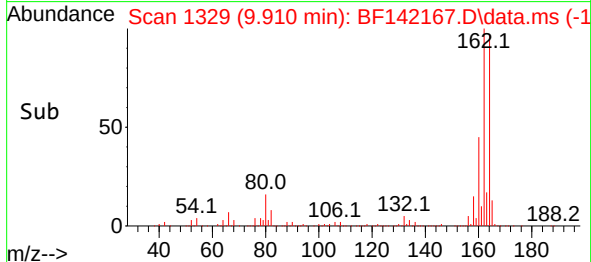
Instrument :
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ClientSampleId :
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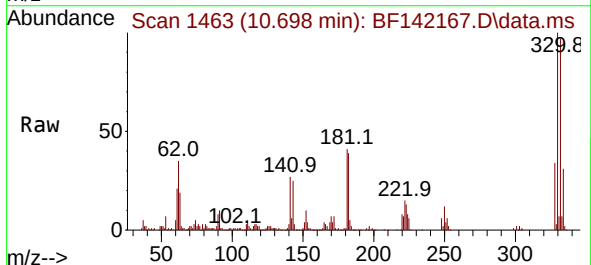
Tgt Ion:164 Resp: 269018
Ion Ratio Lower Upper
164 100
162 103.1 81.8 122.6
160 45.9 36.7 55.1

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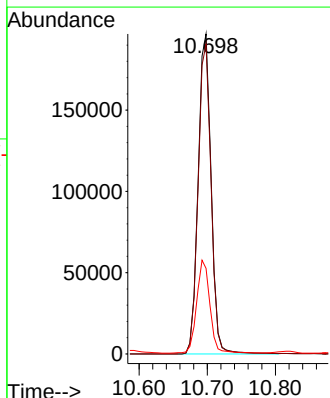
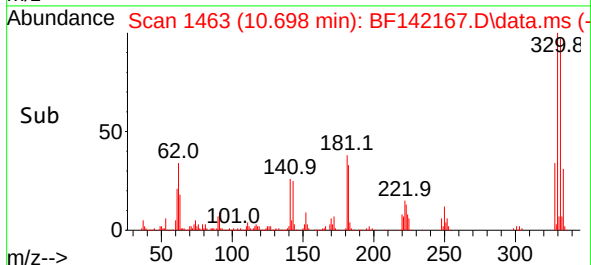
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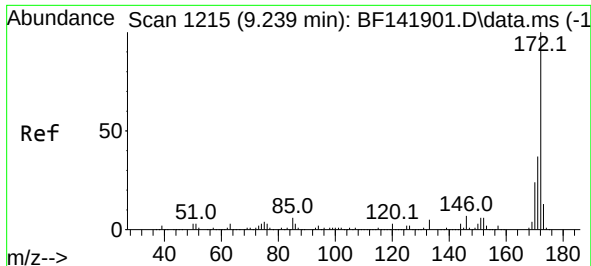


#42
2,4,6-Tribromophenol
Concen: 76.321 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33



Tgt Ion:330 Resp: 260472
Ion Ratio Lower Upper
330 100
332 96.7 77.6 116.4
141 29.8 24.7 37.1





#45

2-Fluorobiphenyl

Concen: 78.222 ng

RT: 9.228 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142167.D

Acq: 28 Mar 2025 18:33

Instrument :

BNA_F

ClientSampleId :

72-11998

Tgt Ion:172 Resp: 1383679

Ion Ratio Lower Upper

172 100

171 35.9 29.3 43.9

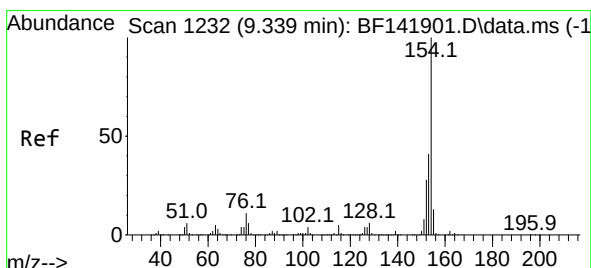
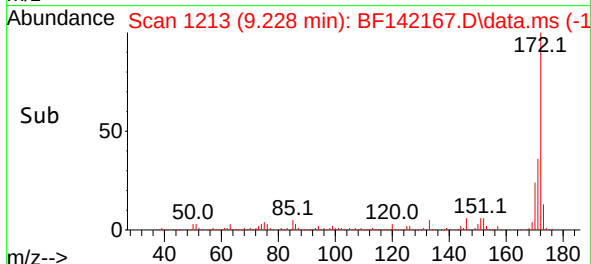
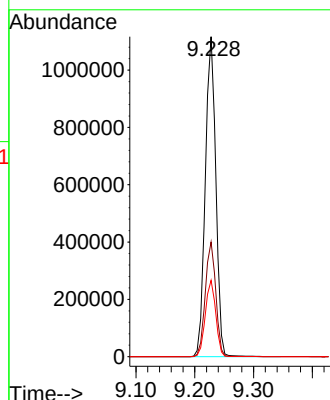
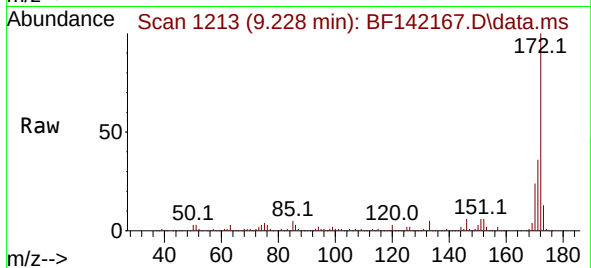
170 23.8 19.4 29.0

Manual Integrations

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#46

1,1'-Biphenyl

Concen: 5.526 ng

RT: 9.328 min Scan# 1230

Delta R.T. -0.012 min

Lab File: BF142167.D

Acq: 28 Mar 2025 18:33

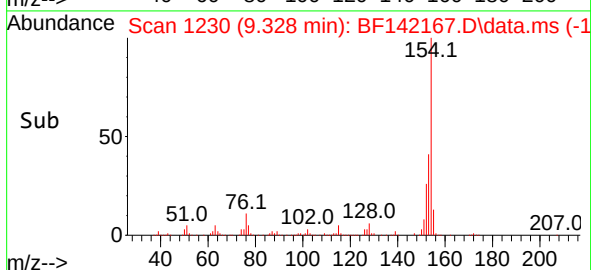
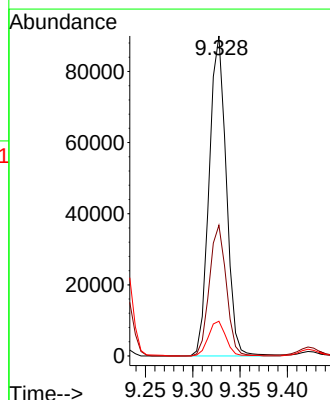
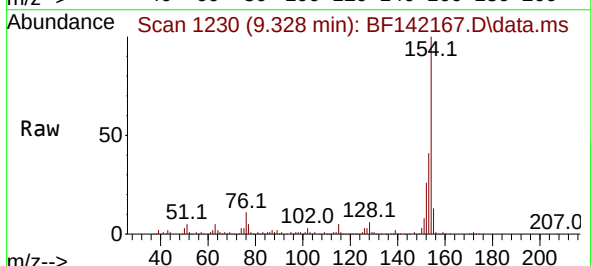
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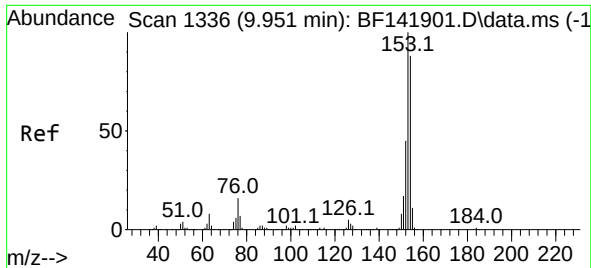
Ion Ratio Lower Upper

154 100

153 40.9 21.1 61.1

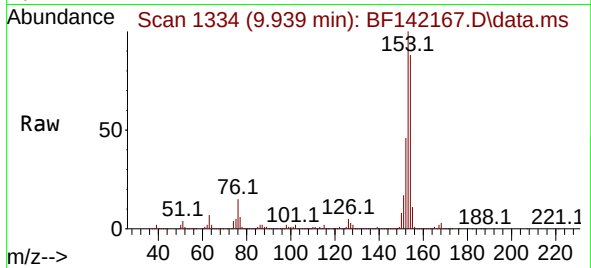
76 10.8 0.0 31.3





#52
Acenaphthene
Concen: 26.008 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

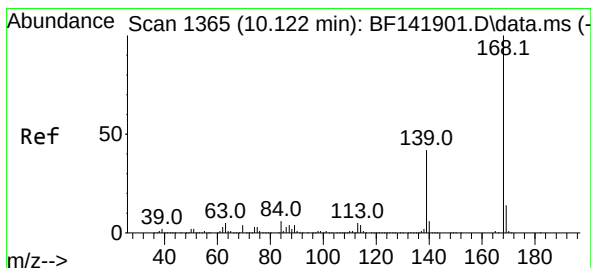
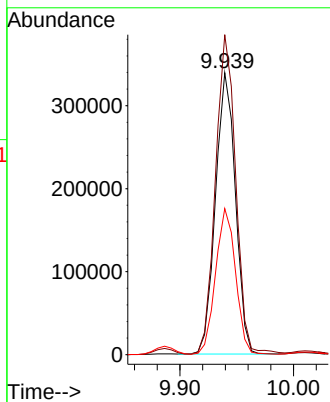
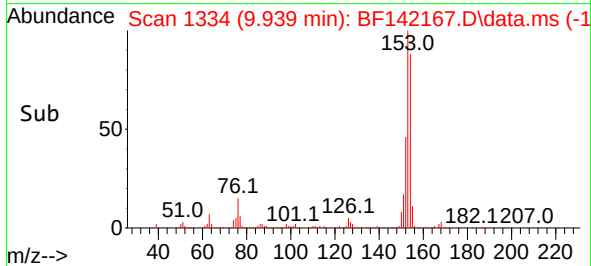
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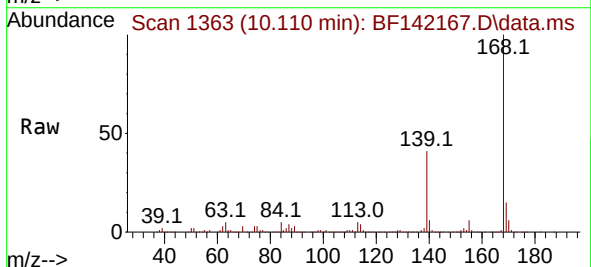
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Ion Ratio Lower Upper
154 100
153 113.5 90.7 136.1
152 51.8 41.1 61.7

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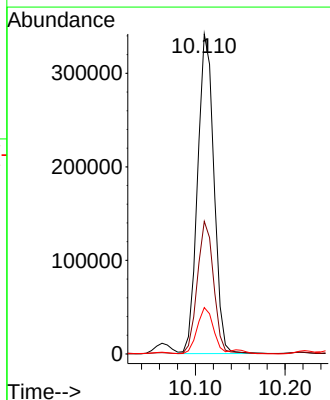
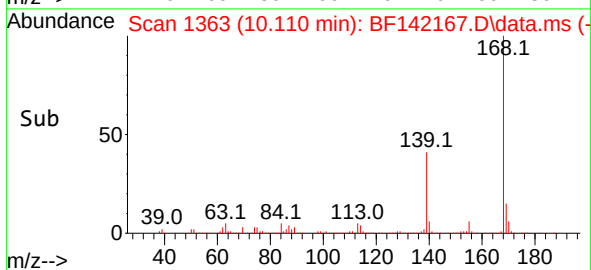
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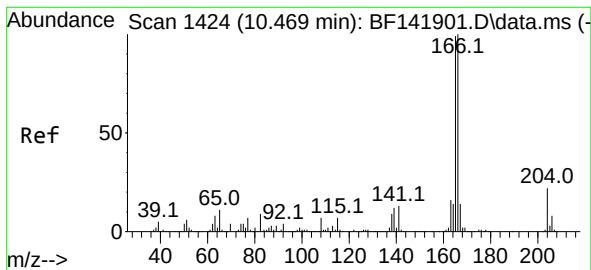


#55
Dibenzofuran
Concen: 19.003 ng
RT: 10.110 min Scan# 1363
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33



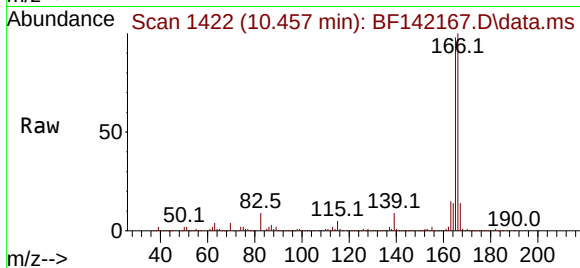
Tgt Ion:168 Resp: 431405
Ion Ratio Lower Upper
168 100
139 41.4 33.9 50.9
169 14.5 11.0 16.4





#58
Fluorene
Concen: 25.038 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

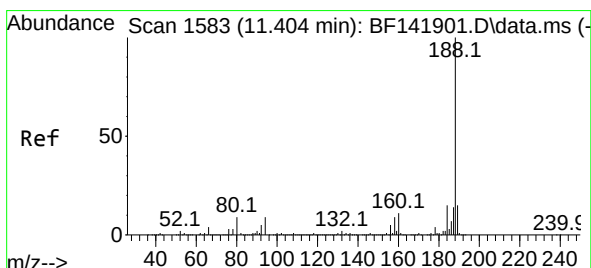
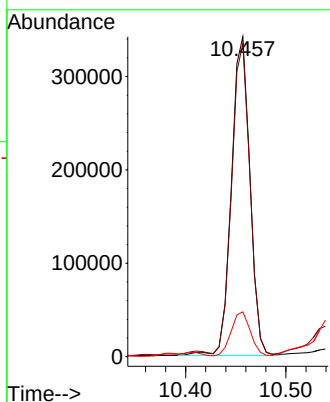
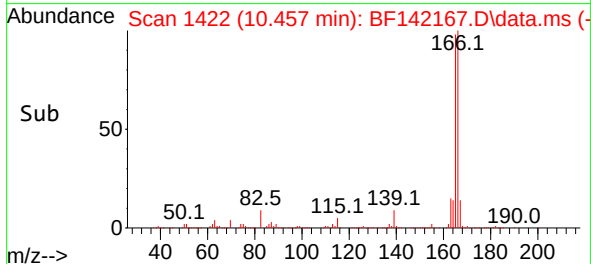
Instrument :
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Tgt Ion:166 Resp: 43835
Ion Ratio Lower Upper
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165 97.9 79.0 118.4
167 14.0 11.0 16.4

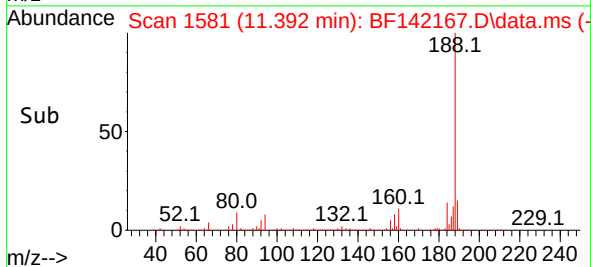
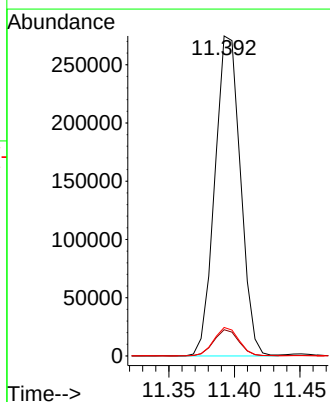
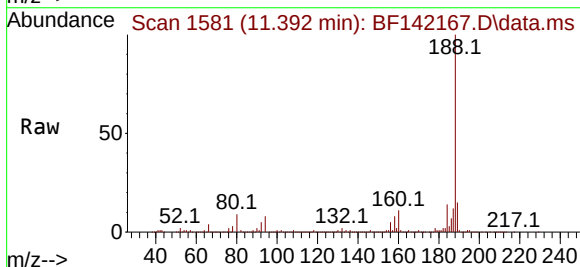
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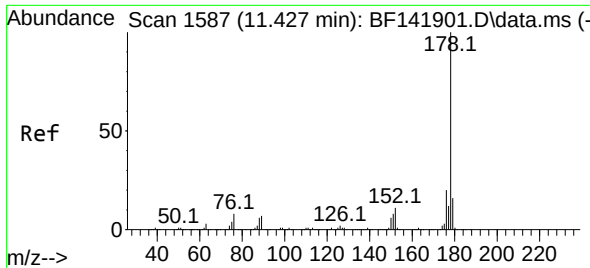
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

Tgt Ion:188 Resp: 373194
Ion Ratio Lower Upper
188 100
94 8.2 6.8 10.2
80 8.9 7.6 11.4





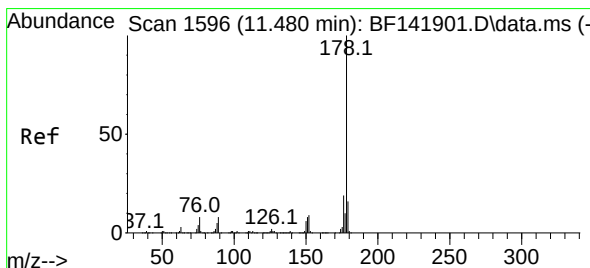
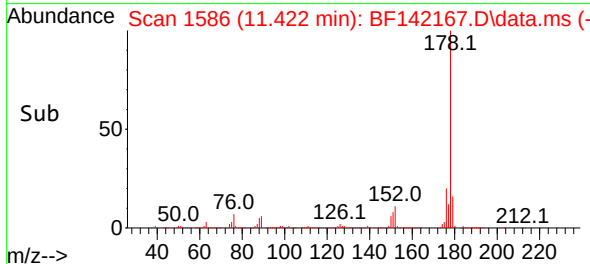
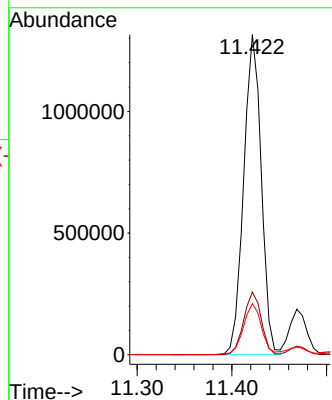
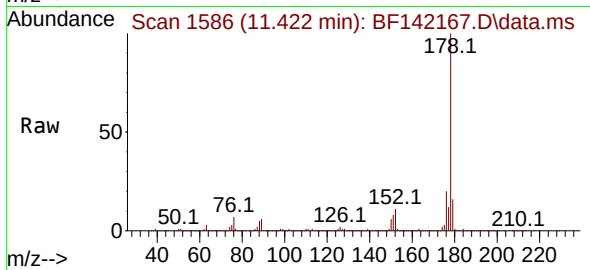
#71
Phenanthrene
Concen: 84.099 ng
RT: 11.422 min Scan# 1587
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

Instrument :
BNA_F
ClientSampleId :
72-11998

Tgt Ion:178 Resp: 169521
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.8
179 15.9 12.6 19.0

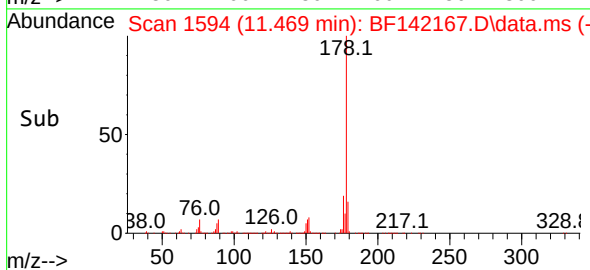
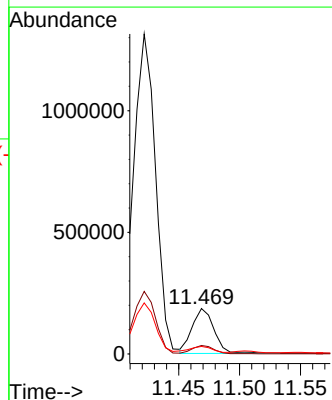
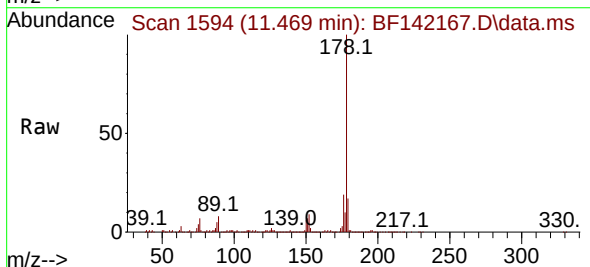
Manual Integrations
APPROVED

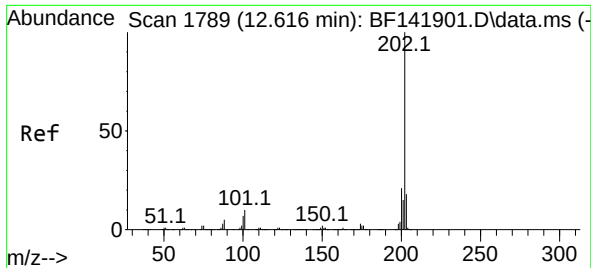
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#72
Anthracene
Concen: 11.440 ng
RT: 11.469 min Scan# 1594
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

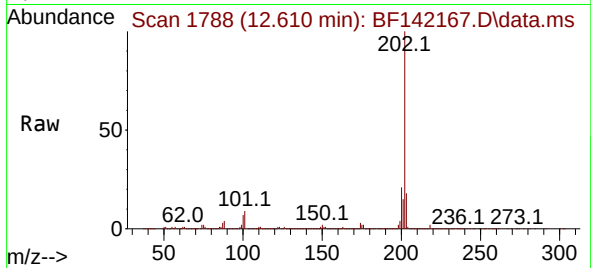
Tgt Ion:178 Resp: 231358
Ion Ratio Lower Upper
178 100
176 18.8 15.1 22.7
179 16.5 12.6 19.0





#75
Fluoranthene
Concen: 40.706 ng
RT: 12.610 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

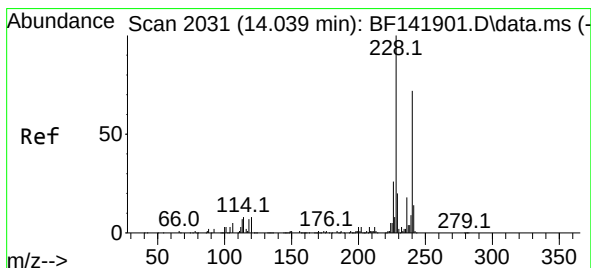
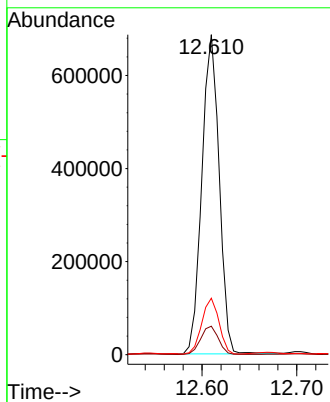
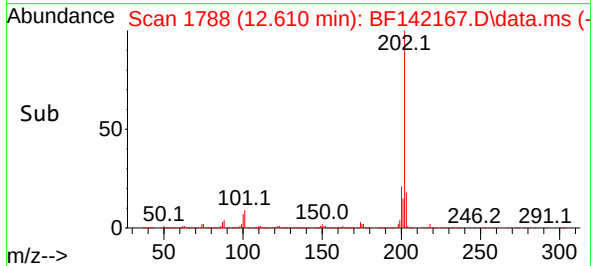
Instrument :
BNA_F
ClientSampleId :
72-11998



Tgt Ion:202 Resp: 87039
Ion Ratio Lower Upper
202 100
101 8.9 0.0 29.7
203 17.6 0.0 37.8

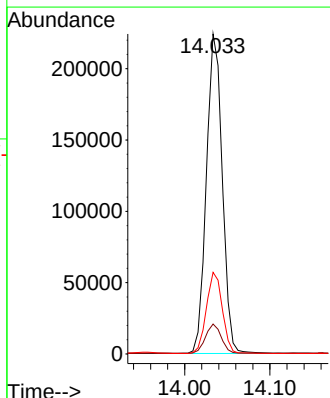
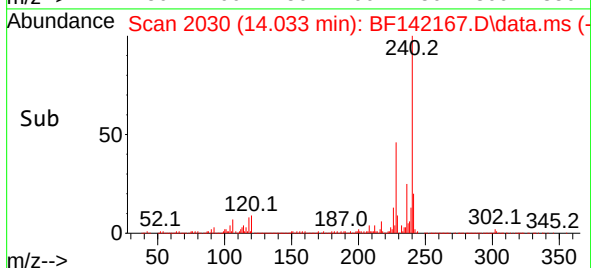
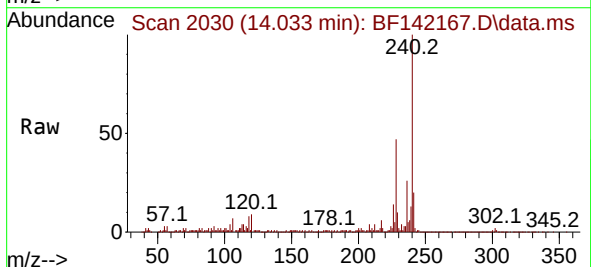
Manual Integrations
APPROVED

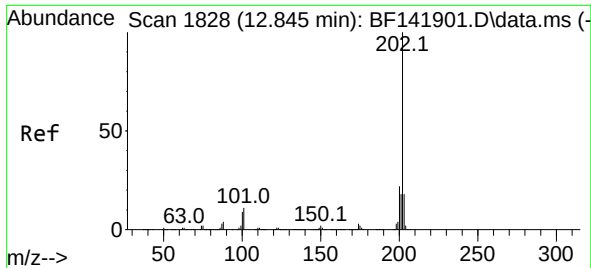
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

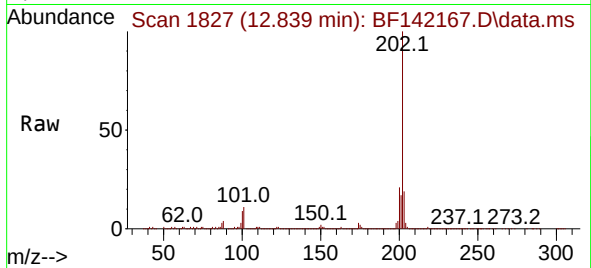
Tgt Ion:240 Resp: 290157
Ion Ratio Lower Upper
240 100
120 9.4 8.4 12.6
236 25.5 20.5 30.7





#78
Pyrene
Concen: 24.212 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

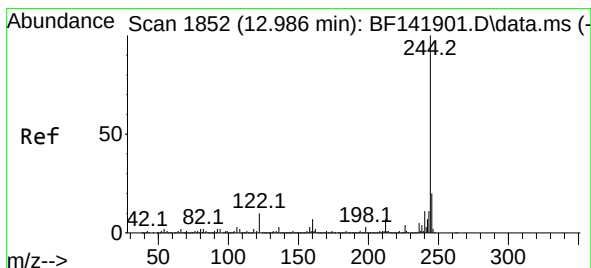
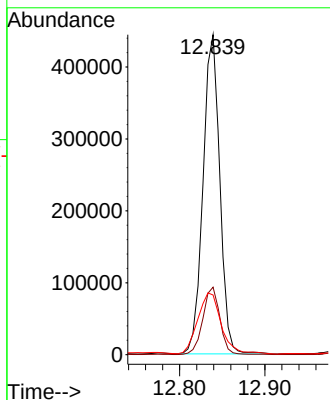
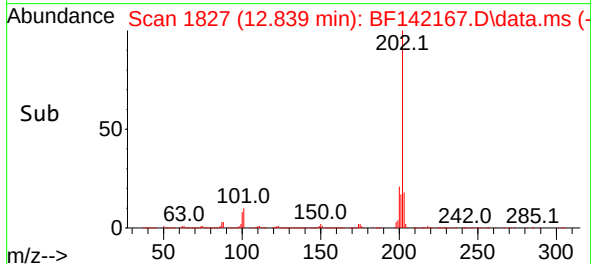
Instrument :
BNA_F
ClientSampleId :
72-11998



Tgt Ion:202 Resp: 607680
Ion Ratio Lower Upper
202 100
200 21.1 17.3 25.9
203 18.7 14.4 21.6

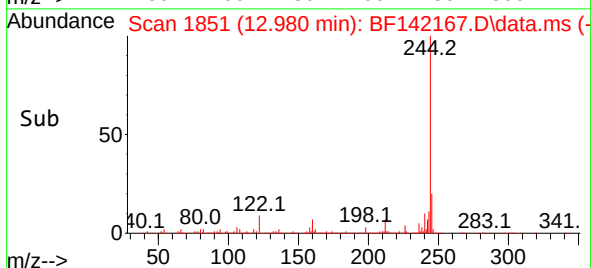
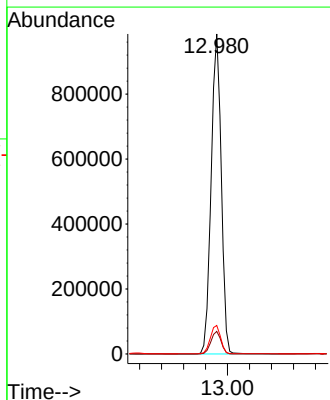
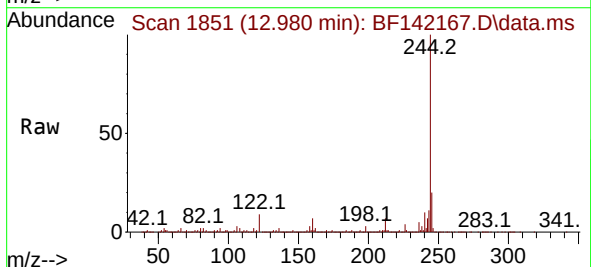
Manual Integrations
APPROVED

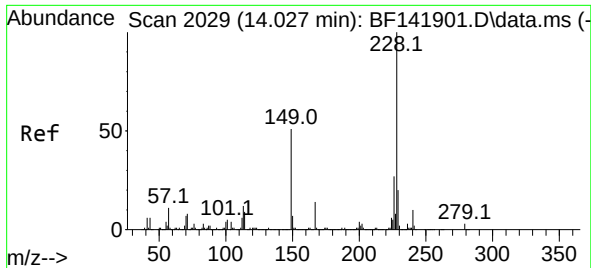
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#79
Terphenyl-d14
Concen: 63.966 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

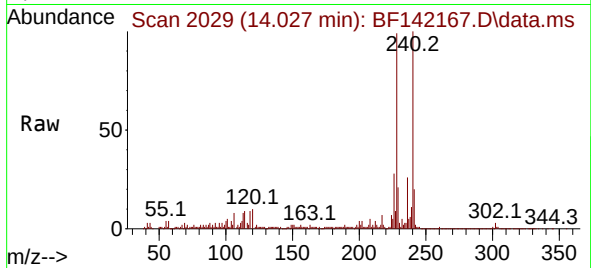
Tgt Ion:244 Resp: 1255374
Ion Ratio Lower Upper
244 100
212 7.1 6.0 9.0
122 8.9 7.7 11.5





#81
Benzo(a)anthracene
Concen: 12.506 ng
RT: 14.027 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

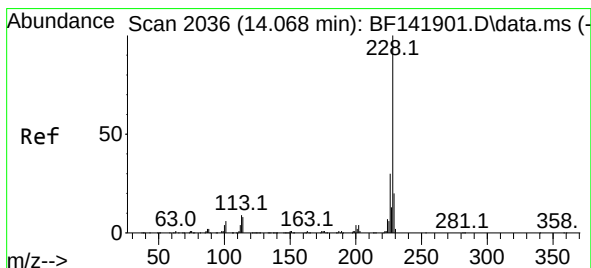
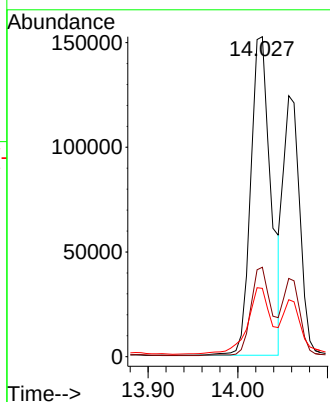
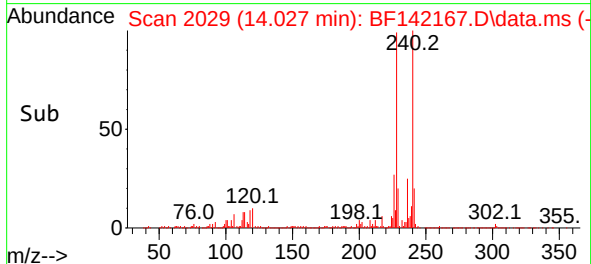
Instrument :
BNA_F
ClientSampleId :
72-11998



Tgt Ion:228 Resp: 238110
Ion Ratio Lower Upper
228 100
226 27.9 21.8 32.8
229 21.3 16.0 24.0

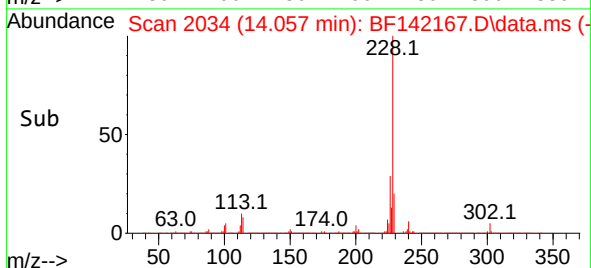
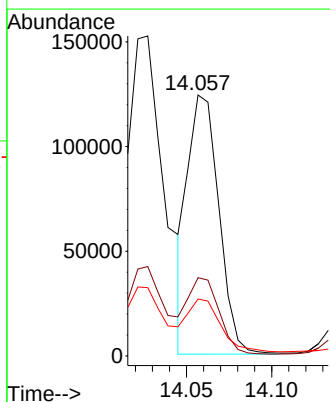
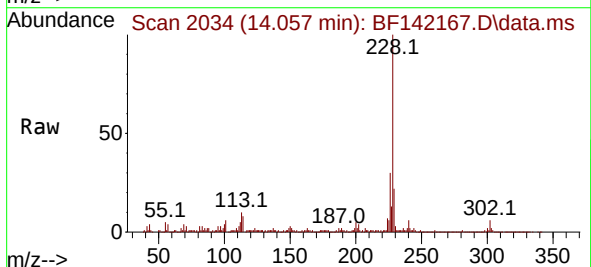
Manual Integrations
APPROVED

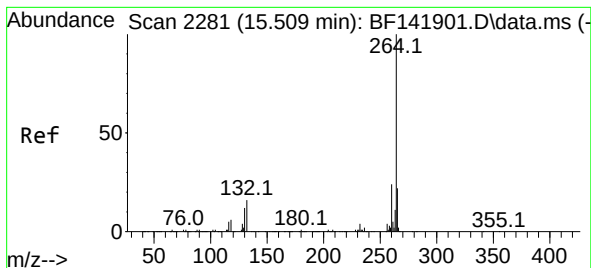
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#83
Chrysene
Concen: 9.126 ng
RT: 14.057 min Scan# 2034
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

Tgt Ion:228 Resp: 157500
Ion Ratio Lower Upper
228 100
226 30.0 24.1 36.1
229 21.8 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: BF142167.D

Acq: 28 Mar 2025 18:33

Instrument :

BNA_F

ClientSampleId :

72-11998

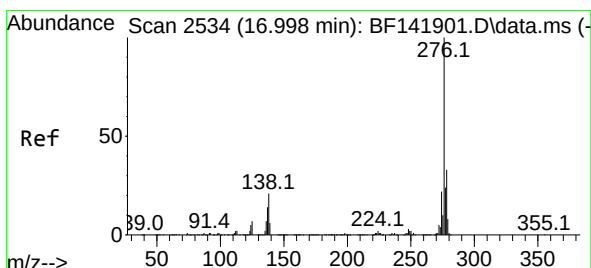
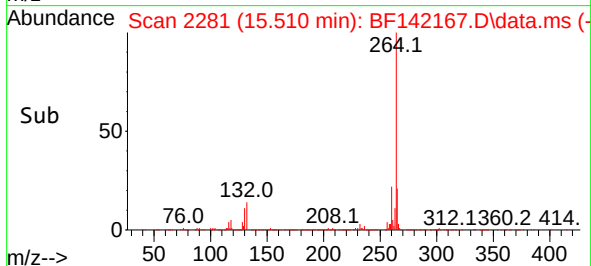
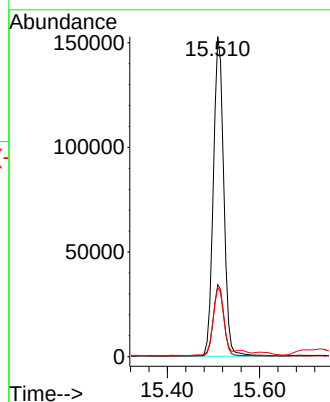
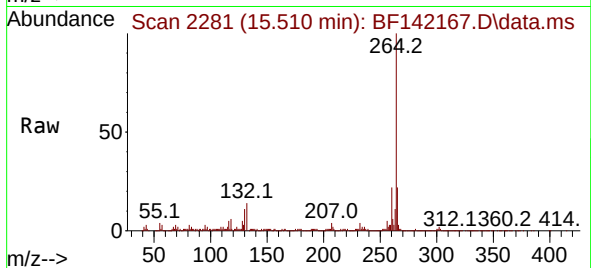
Tgt Ion:	264	Resp:	239184
Ion Ratio	Lower	Upper	
264	100		
260	22.5	19.1	28.7
265	21.6	17.5	26.3

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/31/2025

Supervised By :Jagrut Upadhyay 03/31/2025



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.918 ng

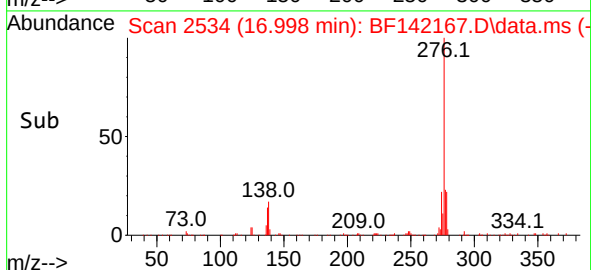
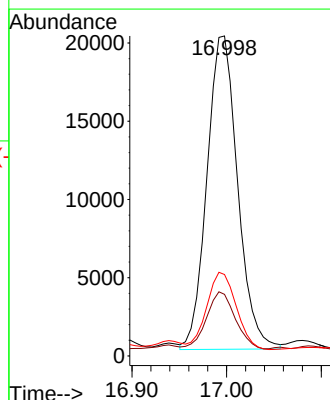
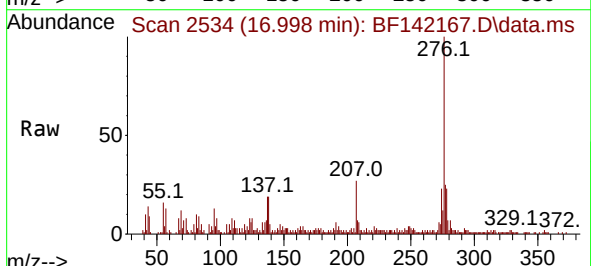
RT: 16.998 min Scan# 2534

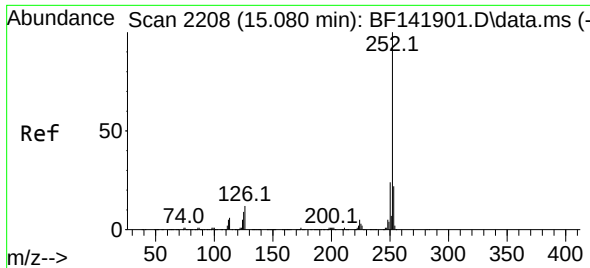
Delta R.T. 0.000 min

Lab File: BF142167.D

Acq: 28 Mar 2025 18:33

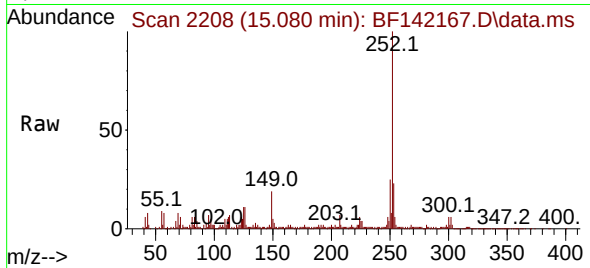
Tgt Ion:	276	Resp:	45153
Ion Ratio	Lower	Upper	
276	100		
138	17.2	18.4	27.6#
277	23.7	20.3	30.5





#88
Benzo(b)fluoranthene
Concen: 9.238 ng m
RT: 15.080 min Scan# 2111
Delta R.T. 0.000 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

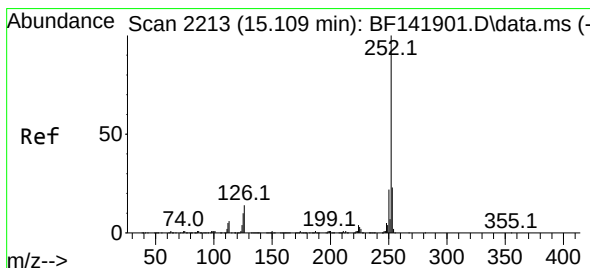
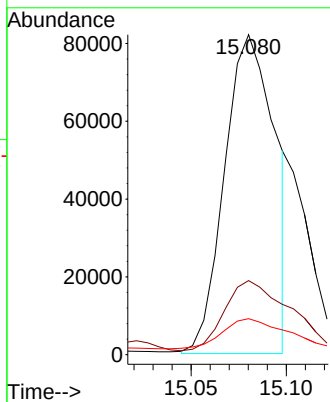
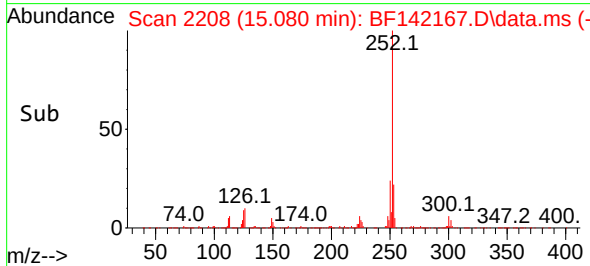
Instrument :
BNA_F
ClientSampleId :
72-11998



Tgt Ion:252 Resp: 151434
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 11.2 7.0 10.4

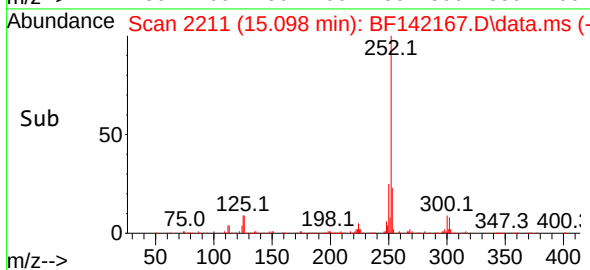
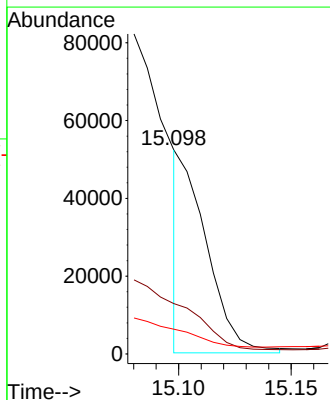
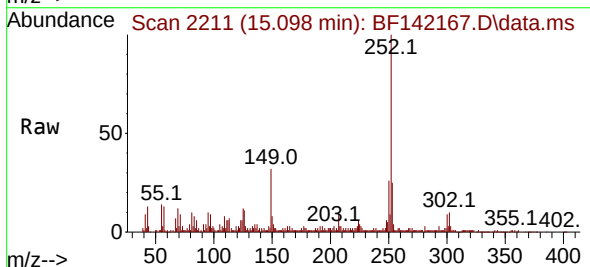
Manual Integrations
APPROVED

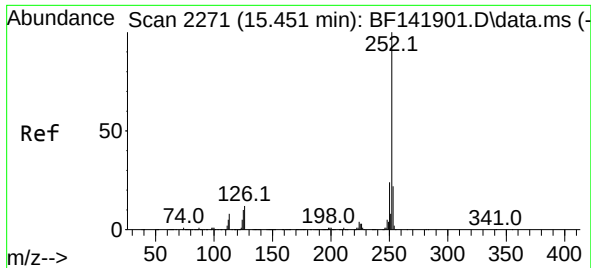
Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#89
Benzo(k)fluoranthene
Concen: 2.993 ng m
RT: 15.098 min Scan# 2211
Delta R.T. -0.012 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

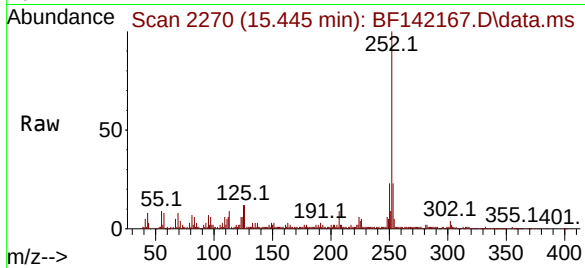
Tgt Ion:252 Resp: 41987
Ion Ratio Lower Upper
252 100
253 24.7 17.7 26.5
125 12.2 7.2 10.8





#90
Benzo(a)pyrene
Concen: 7.431 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

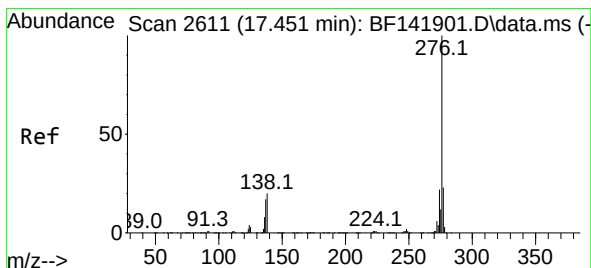
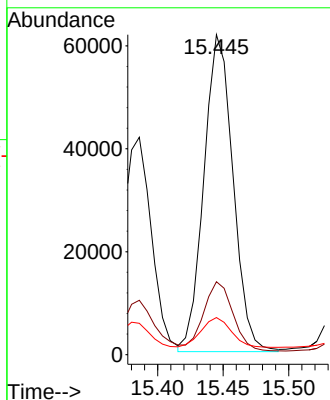
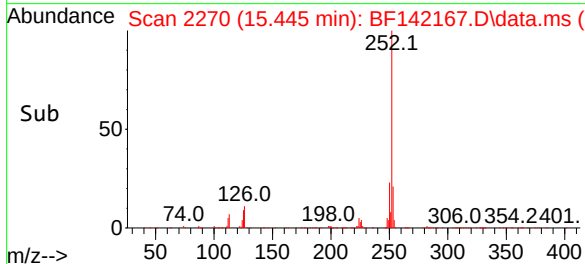
Instrument :
BNA_F
ClientSampleId :
72-11998



Tgt Ion:252 Resp: 9531
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.0
125 11.6 7.8 11.8

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/31/2025
Supervised By :Jagrut Upadhyay 03/31/2025



#92
Benzo(g,h,i)perylene
Concen: 3.443 ng
RT: 17.445 min Scan# 2610
Delta R.T. -0.006 min
Lab File: BF142167.D
Acq: 28 Mar 2025 18:33

Tgt Ion:276 Resp: 43438
Ion Ratio Lower Upper
276 100
277 25.1 18.7 28.1
138 19.0 15.8 23.8

