

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032725\
 Data File : BF142148.D
 Acq On : 28 Mar 2025 02:36
 Operator : RC/JU
 Sample : Q1642-01 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PAT-1-032525

Manual Integrations
 APPROVED

Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025

Quant Time: Mar 28 03:57:51 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	156429	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	546162	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	249474	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	359487	20.000	ng	0.00
76) Chrysene-d12	14.039	240	296687	20.000	ng	0.00
86) Perylene-d12	15.515	264	237441	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	388312	41.429	ng	-0.01
7) Phenol-d6	6.493	99	476384	39.919	ng	-0.01
23) Nitrobenzene-d5	7.428	82	293968	30.290	ng	-0.02
42) 2,4,6-Tribromophenol	10.698	330	113508	35.865	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	509956	31.087	ng	-0.01
79) Terphenyl-d14	12.980	244	452811	22.565	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.175	128	153549	5.473	ng	98
37) 2-Methylnaphthalene	8.863	142	93509	4.986	ng	100
38) 1-Methylnaphthalene	8.963	142	112600	6.222	ng	99
52) Acenaphthene	9.939	154	194858	13.225	ng	98
55) Dibenzofuran	10.116	168	156527	7.435	ng	# 91
58) Fluorene	10.457	166	197458	12.162	ng	# 98
71) Phenanthrene	11.428	178	2061509	106.170	ng	100
72) Anthracene	11.475	178	521779	26.785	ng	99
73) Carbazole	11.627	167	228276	13.588	ng	98
75) Fluoranthene	12.622	202	2850937	138.415	ng	98
78) Pyrene	12.845	202	2383713	92.882	ng	97
81) Benzo(a)anthracene	14.033	228	1119718	57.514	ng	98
83) Chrysene	14.069	228	828871	46.968	ng	97
84) Bis(2-ethylhexyl)phtha...	14.016	149	133149	9.614	ng	98
87) Indeno(1,2,3-cd)pyrene	17.004	276	344000m	22.396	ng	
88) Benzo(b)fluoranthene	15.086	252	936262m	57.534	ng	
89) Benzo(k)fluoranthene	15.104	252	277591m	19.933	ng	
90) Benzo(a)pyrene	15.457	252	576525	45.277	ng	97
91) Dibenzo(a,h)anthracene	17.015	278	81575	6.437	ng	# 92
92) Benzo(g,h,i)perylene	17.457	276	316674	25.287	ng	97

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

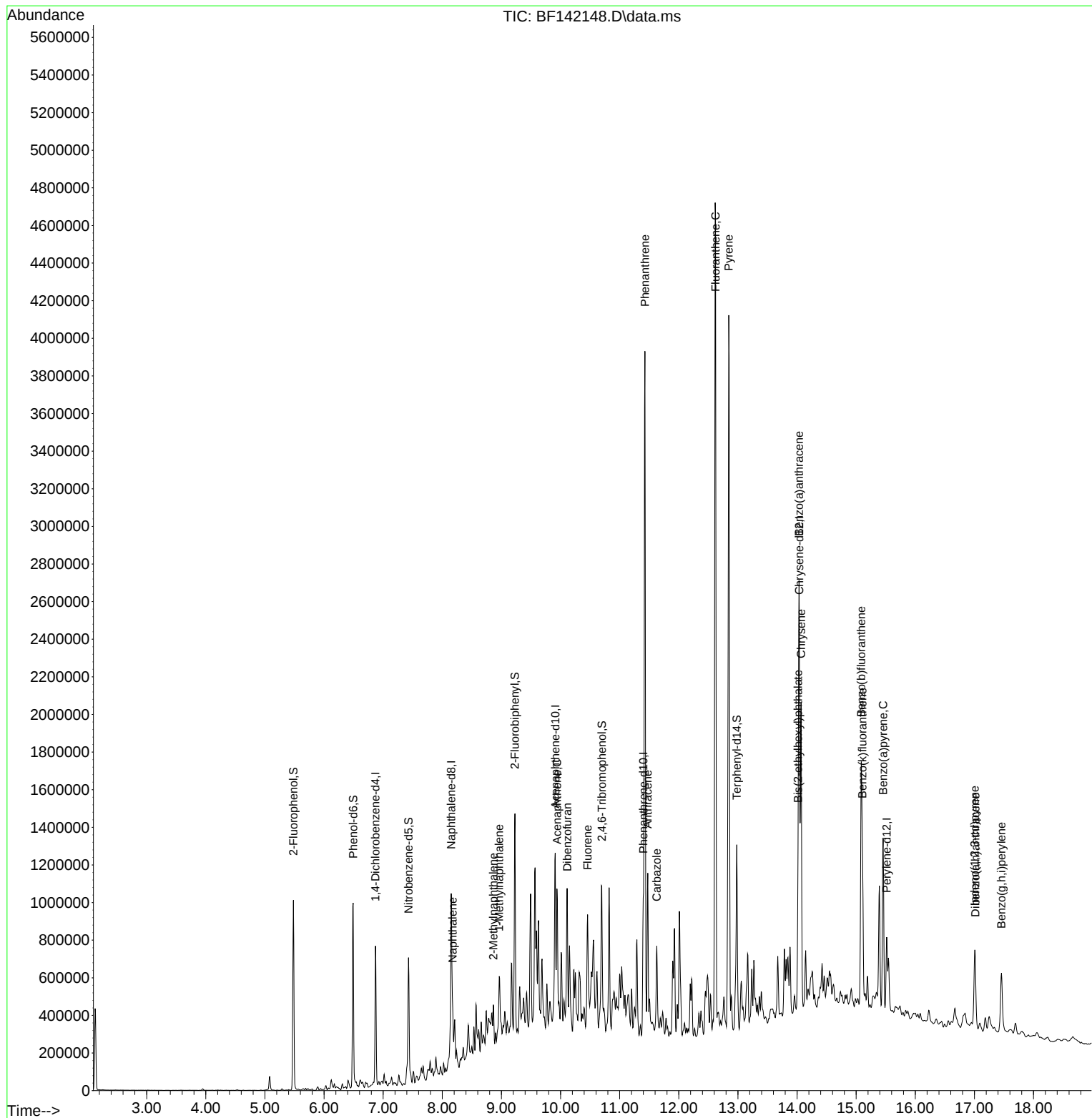
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032725\
Data File : BF142148.D
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Operator : RC/JU
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ALS Vial : 23 Sample Multiplier: 1

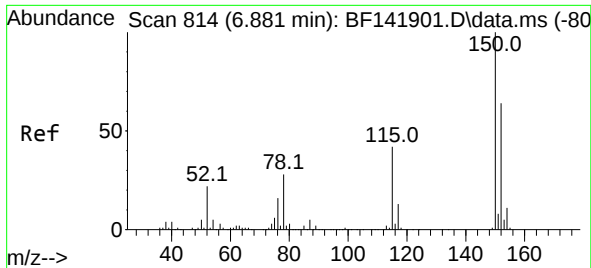
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525

Quant Time: Mar 28 03:57:51 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

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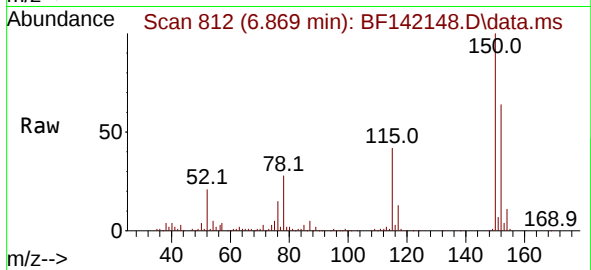
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 814
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

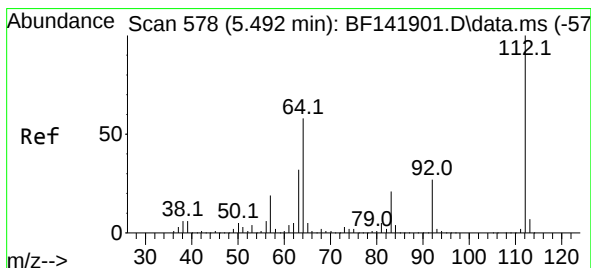
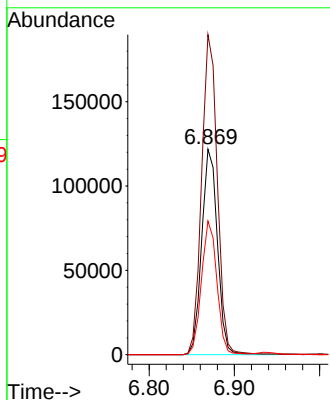
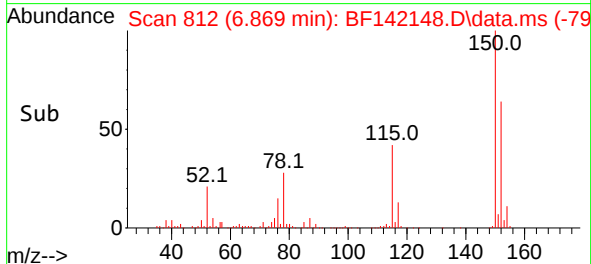
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525



Tgt Ion:152 Resp: 156429
Ion Ratio Lower Upper
152 100
150 155.7 127.4 191.2
115 65.0 51.9 77.9

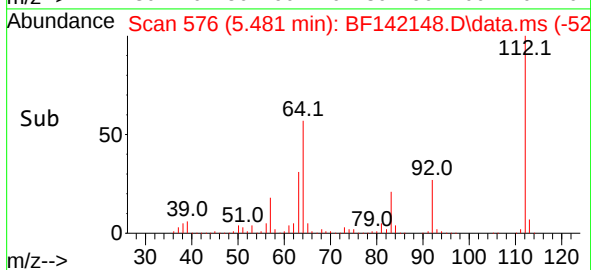
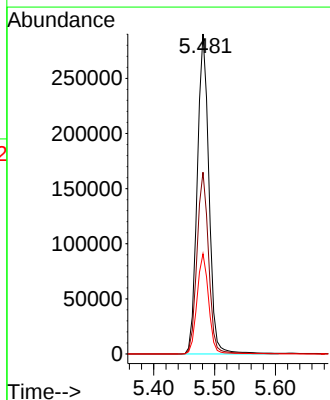
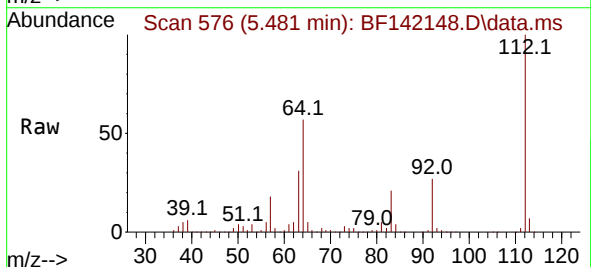
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#5
2-Fluorophenol
Concen: 41.429 ng
RT: 5.481 min Scan# 576
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

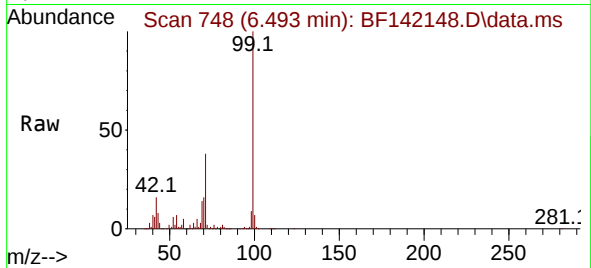
Tgt Ion:112 Resp: 388312
Ion Ratio Lower Upper
112 100
64 56.8 46.5 69.7
63 31.3 25.4 38.2





#7
Phenol-d6
Concen: 39.919 ng
RT: 6.493 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

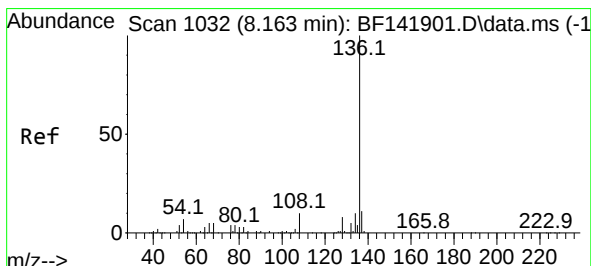
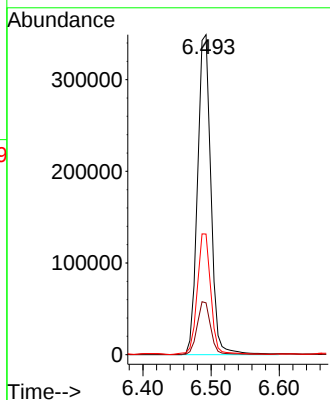
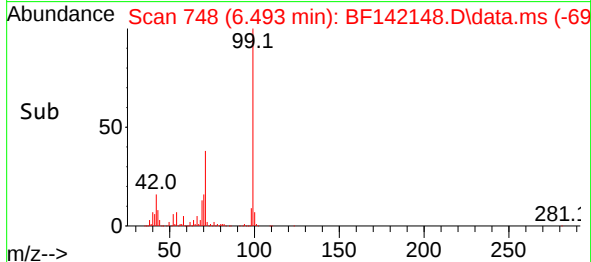
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525



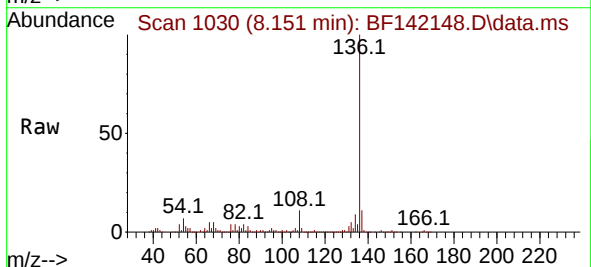
Tgt Ion: 99 Resp: 476384
Ion Ratio Lower Upper
99 100
42 16.2 14.6 21.8
71 37.7 30.8 46.2

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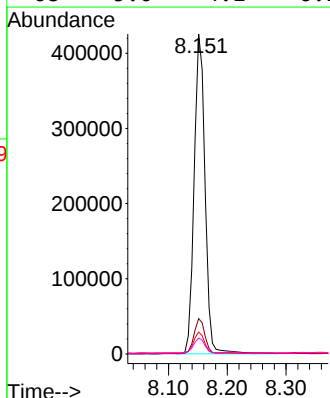
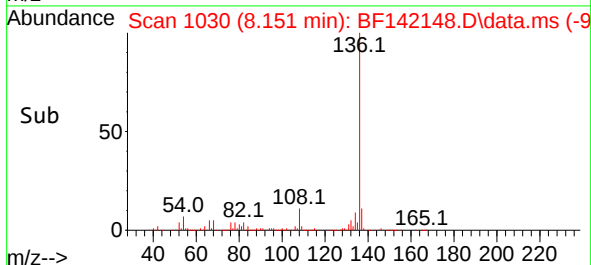
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025

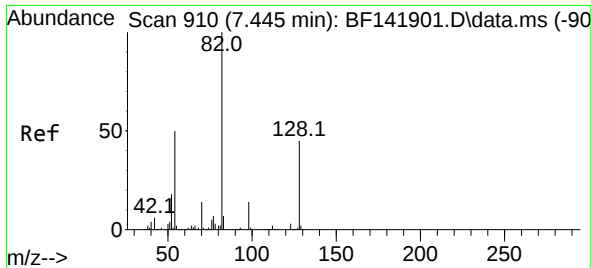


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36



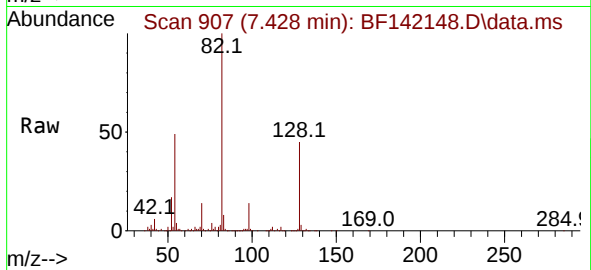
Tgt Ion:136 Resp: 546162
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 6.8 5.8 8.8
68 5.0 4.1 6.1





#23
Nitrobenzene-d5
Concen: 30.290 ng
RT: 7.428 min Scan# 907
Delta R.T. -0.018 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

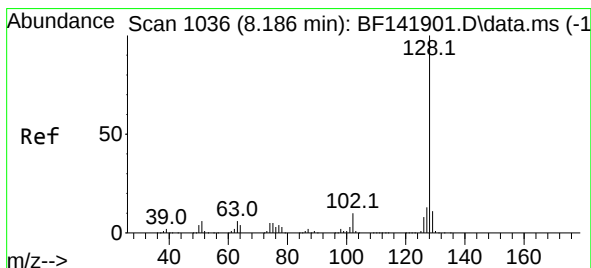
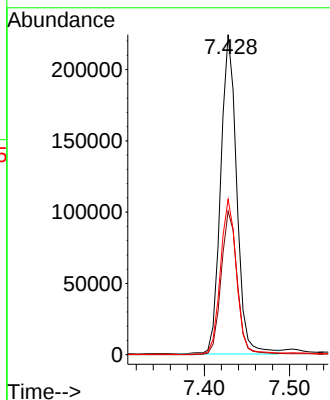
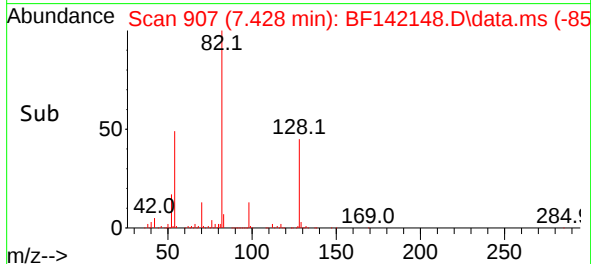
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525



Tgt Ion: 82 Resp: 293968
Ion Ratio Lower Upper
82 100
128 44.8 36.0 54.0
54 48.6 39.6 59.4

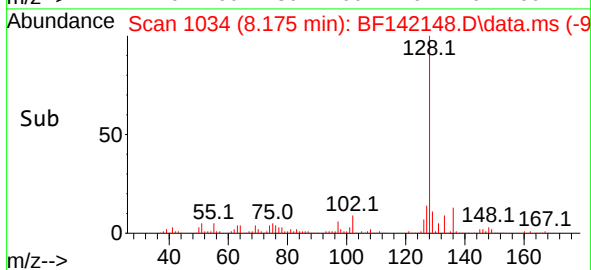
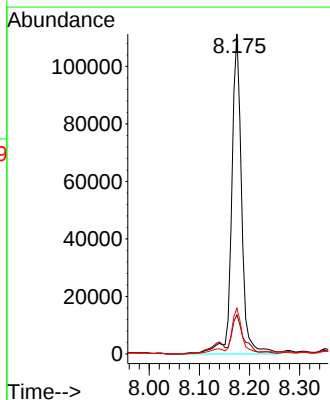
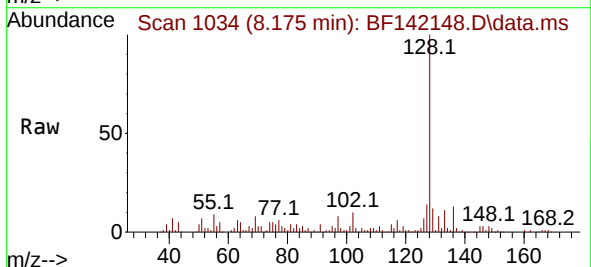
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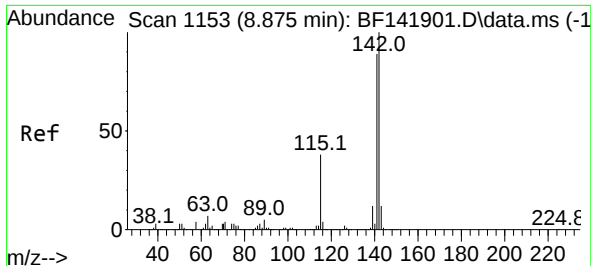
Reviewed By :Anahy Claudio 03/28/2025
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#31
Naphthalene
Concen: 5.473 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:128 Resp: 153549
Ion Ratio Lower Upper
128 100
129 12.2 9.0 13.6
127 14.3 10.8 16.2





#37

2-Methylnaphthalene

Concen: 4.986 ng

RT: 8.863 min Scan# 1153

Delta R.T. -0.012 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

Tgt Ion:142 Resp: 93509

Ion Ratio Lower Upper

142 100

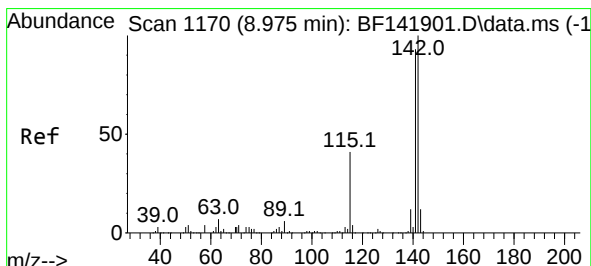
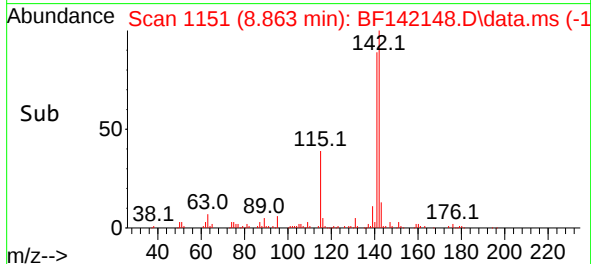
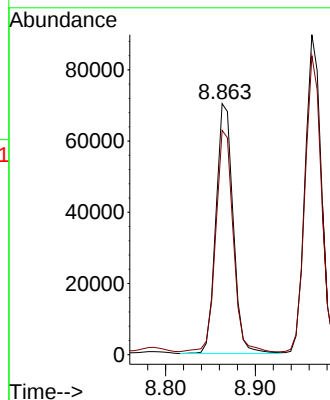
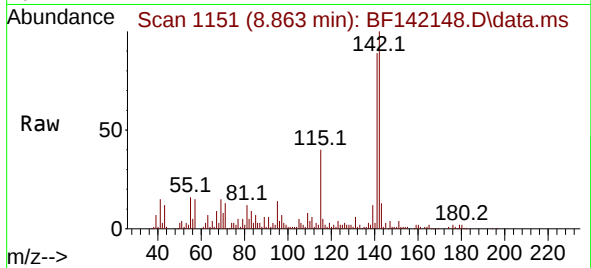
141 89.4 71.2 106.8

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 6.222 ng

RT: 8.963 min Scan# 1168

Delta R.T. -0.012 min

Lab File: BF142148.D

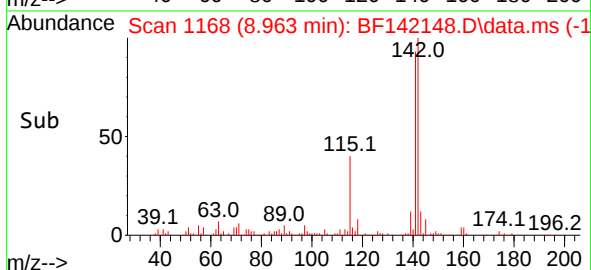
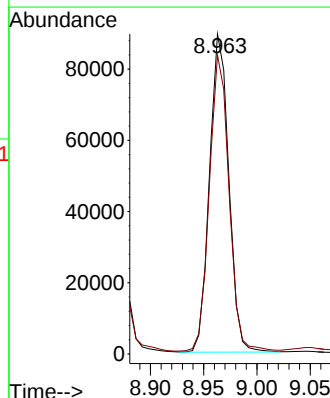
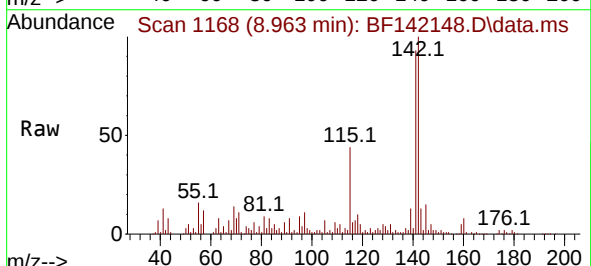
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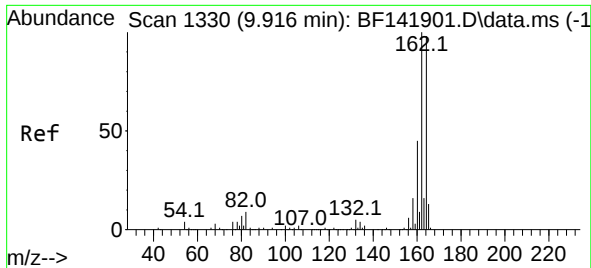
Tgt Ion:142 Resp: 112600

Ion Ratio Lower Upper

142 100

141 93.4 74.2 111.4





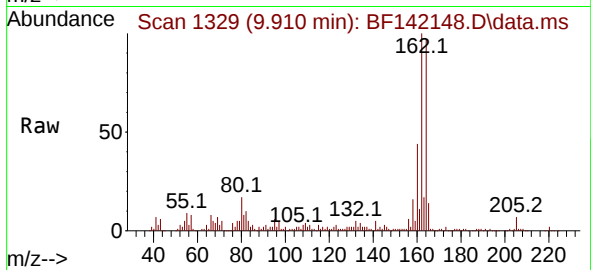
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

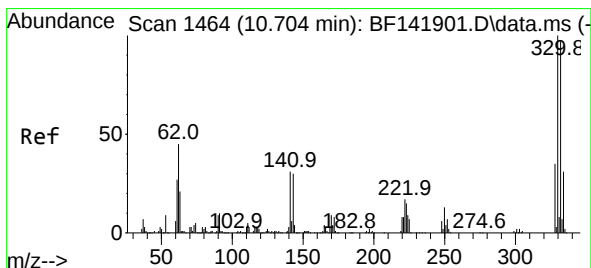
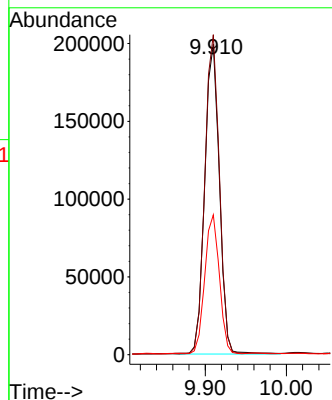
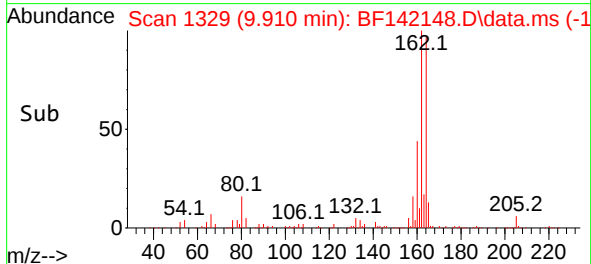


Tgt Ion:164 Resp: 249474
Ion Ratio Lower Upper
164 100
162 103.1 81.8 122.6
160 45.1 36.7 55.1

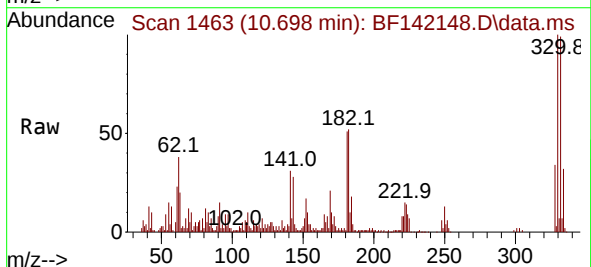
Manual Integrations

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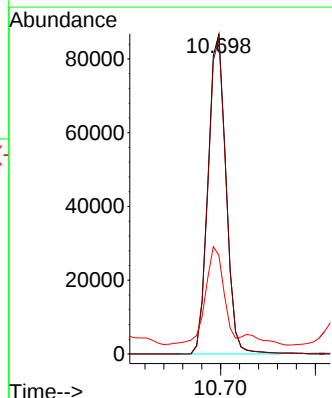
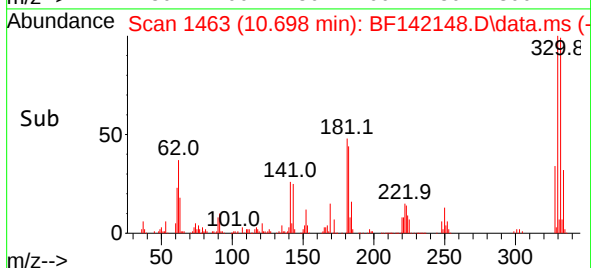
Reviewed By :Anahy Claudio 03/28/2025
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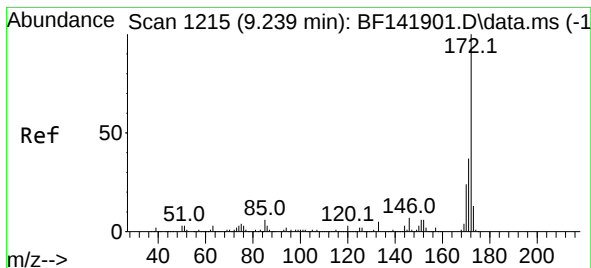


#42
2,4,6-Tribromophenol
Concen: 35.865 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36



Tgt Ion:330 Resp: 113508
Ion Ratio Lower Upper
330 100
332 98.8 77.6 116.4
141 32.1 24.7 37.1





#45

2-Fluorobiphenyl

Concen: 31.087 ng

RT: 9.228 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

Tgt Ion:172 Resp: 509950

Ion Ratio Lower Upper

172 100

171 35.9 29.3 43.9

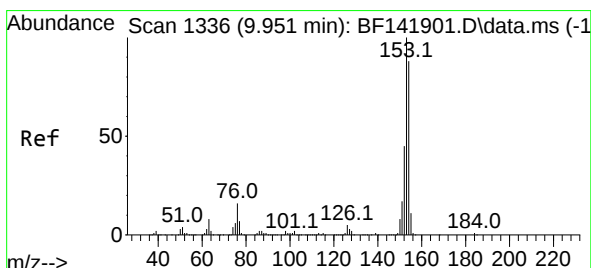
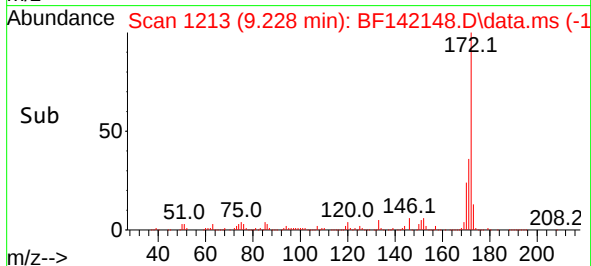
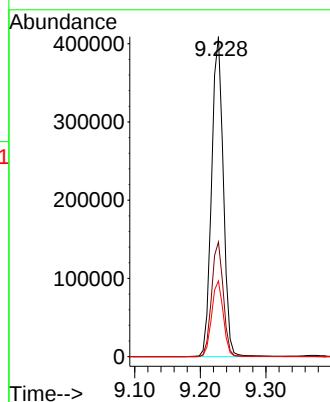
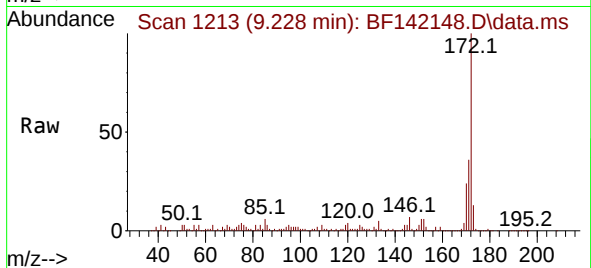
170 23.6 19.4 29.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 04/01/2025



#52

Acenaphthene

Concen: 13.225 ng

RT: 9.939 min Scan# 1334

Delta R.T. -0.012 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

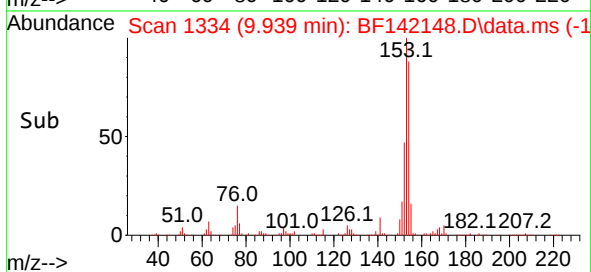
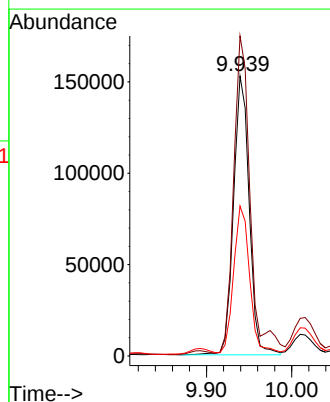
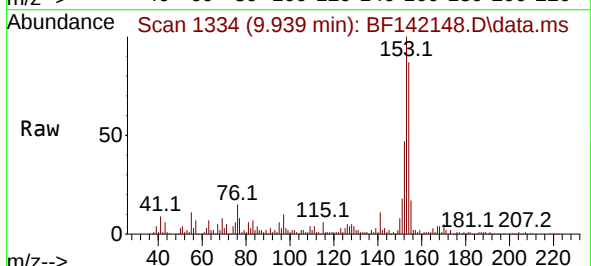
Tgt Ion:154 Resp: 194858

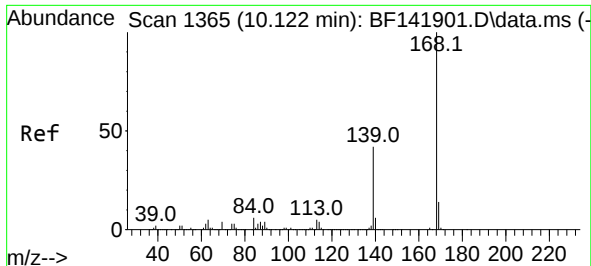
Ion Ratio Lower Upper

154 100

153 114.4 90.7 136.1

152 53.6 41.1 61.7





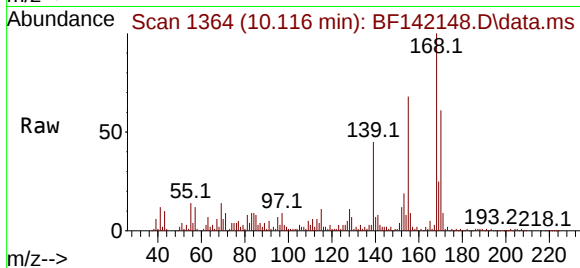
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Dibenzenofuran
Concen: 7.435 ng
RT: 10.116 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

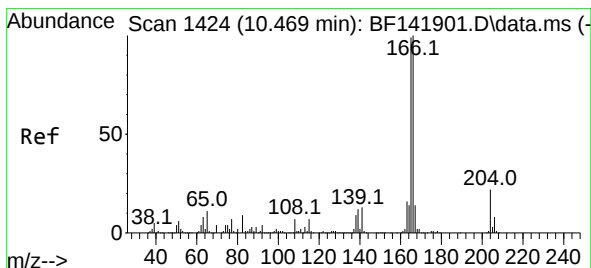
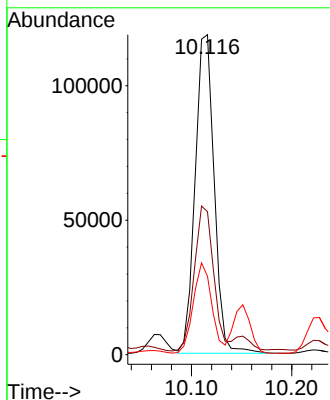
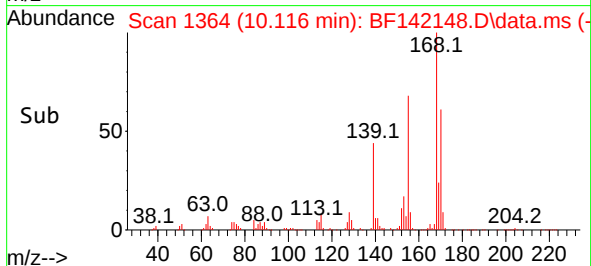


Tgt Ion:168 Resp: 15652
Ion Ratio Lower Upper
168 100
139 44.7 33.9 50.9
169 24.5 11.0 16.4

Manual Integrations

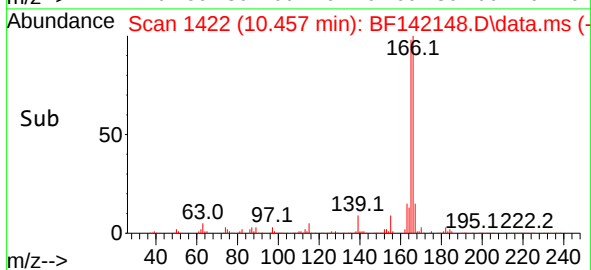
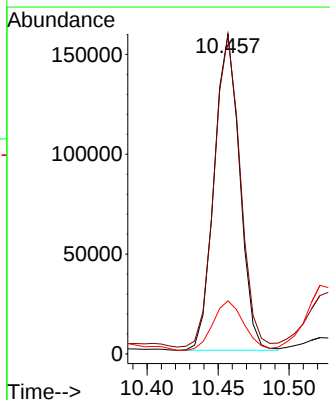
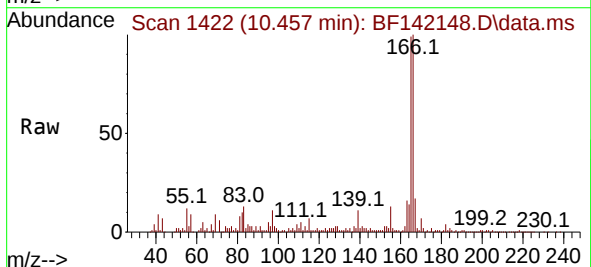
APPROVED

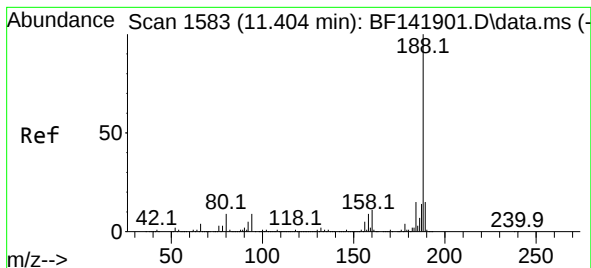
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#58
Fluorene
Concen: 12.162 ng
RT: 10.457 min Scan# 1422
Delta R.T. -0.012 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:166 Resp: 197458
Ion Ratio Lower Upper
166 100
165 99.5 79.0 118.4
167 16.6 11.0 16.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

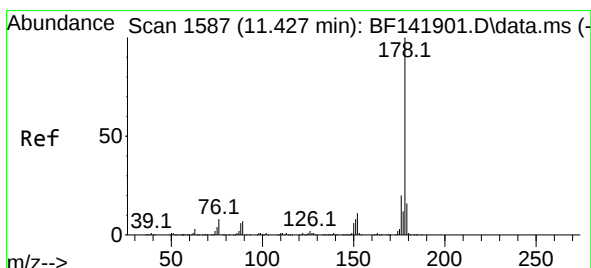
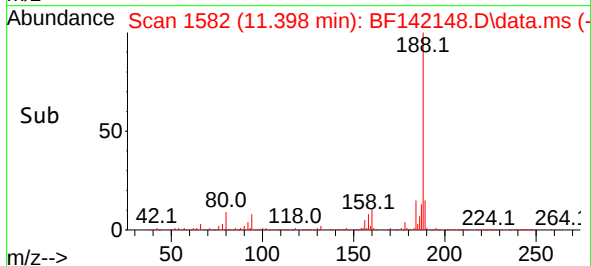
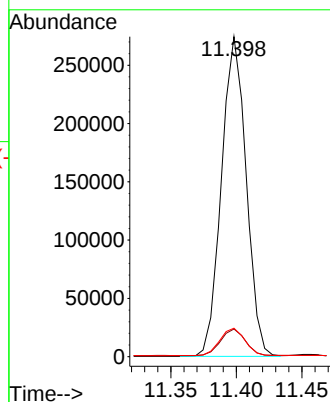
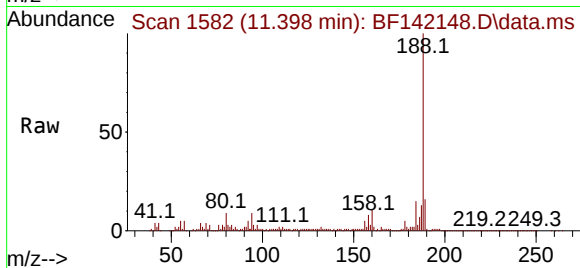
PAT-1-032525

Tgt Ion:188 Resp: 35948
 Ion Ratio Lower Upper
 188 100
 94 8.6 6.8 10.2
 80 8.9 7.6 11.4

Manual Integrations

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Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025



#71

Phenanthrene

Concen: 106.170 ng

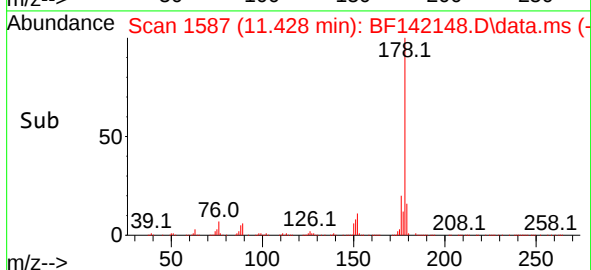
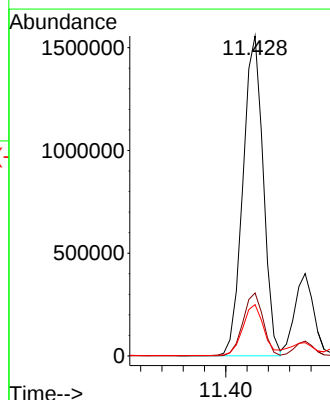
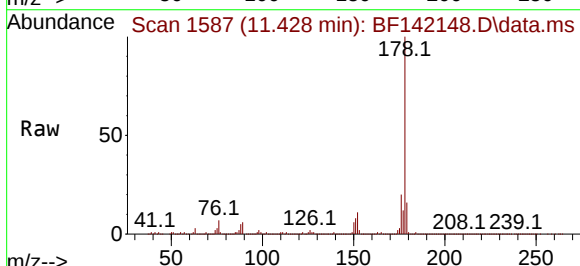
RT: 11.428 min Scan# 1587

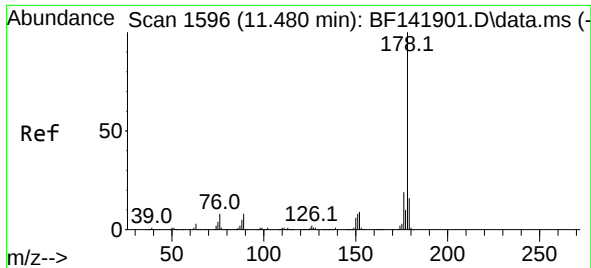
Delta R.T. 0.000 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

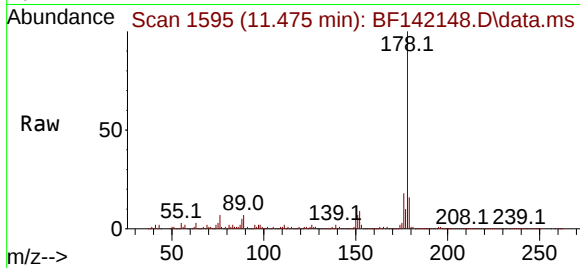
Tgt Ion:178 Resp: 2061509
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.8 23.8
 179 16.1 12.6 19.0





#72
 Anthracene
 Concen: 26.785 ng
 RT: 11.475 min Scan# 1595
 Delta R.T. -0.006 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

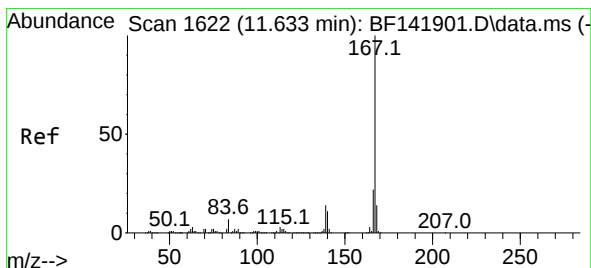
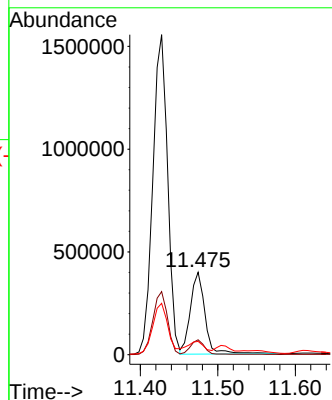
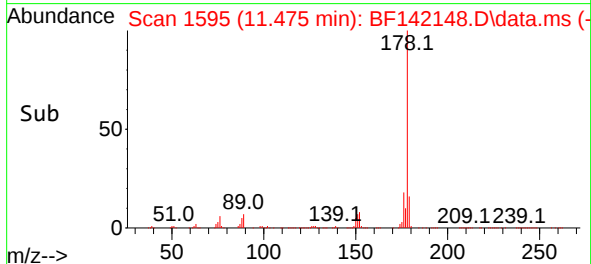
Instrument :
 BNA_F
 ClientSampleId :
 PAT-1-032525



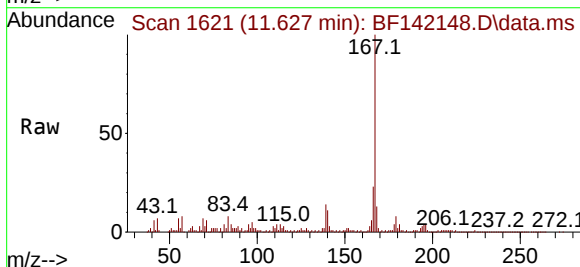
Tgt Ion:178 Resp: 521779
 Ion Ratio Lower Upper
 178 100
 176 18.0 15.1 22.7
 179 16.1 12.6 19.0

Manual Integrations
 APPROVED

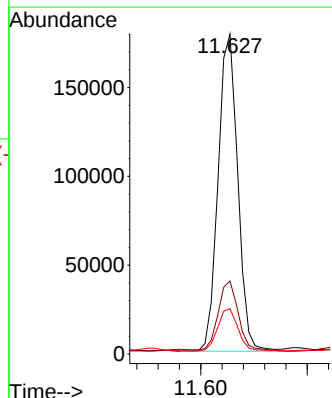
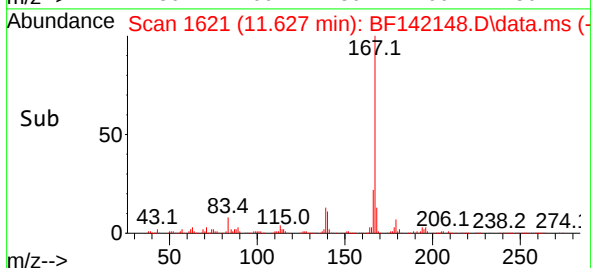
Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025

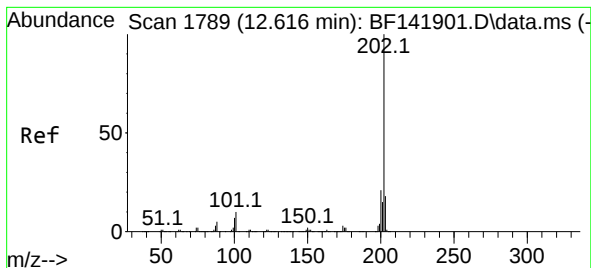


#73
 Carbazole
 Concen: 13.588 ng
 RT: 11.627 min Scan# 1621
 Delta R.T. -0.006 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36



Tgt Ion:167 Resp: 228276
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.4 26.2
 139 14.1 11.0 16.6





#75

Fluoranthene

Concen: 138.415 ng

RT: 12.622 min Scan# 1790

Delta R.T. 0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

Tgt Ion:202 Resp: 285093

Ion Ratio Lower Upper

202 100

101 8.3 0.0 29.7

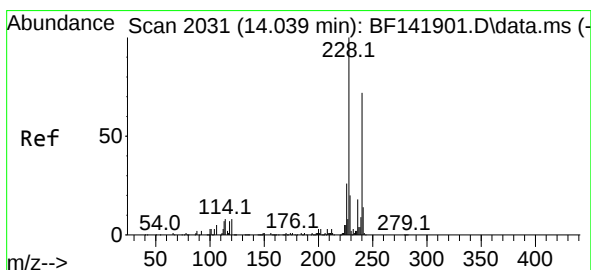
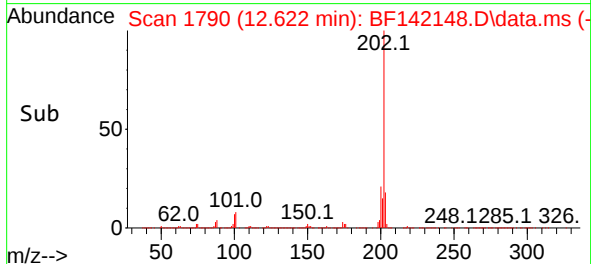
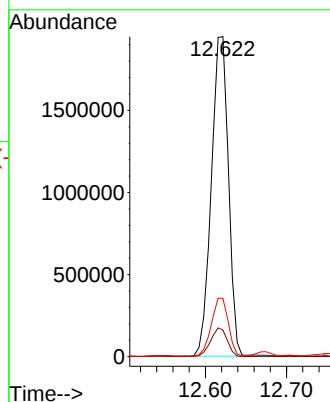
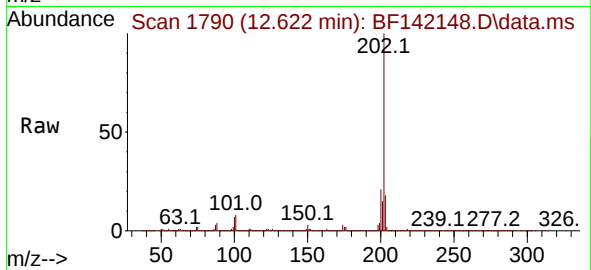
203 18.2 0.0 37.8

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 03/28/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

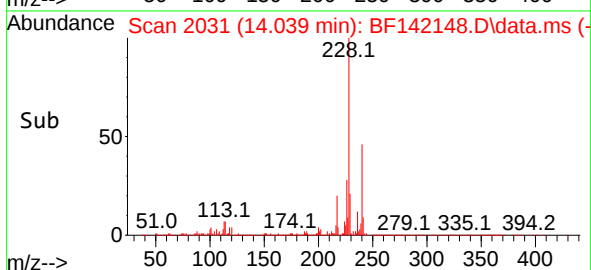
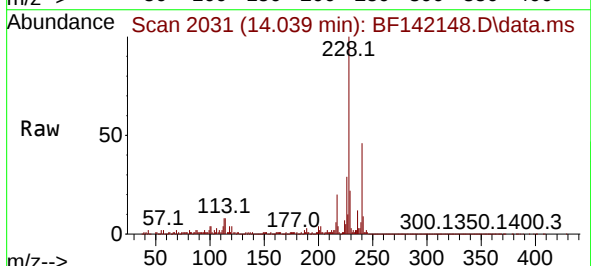
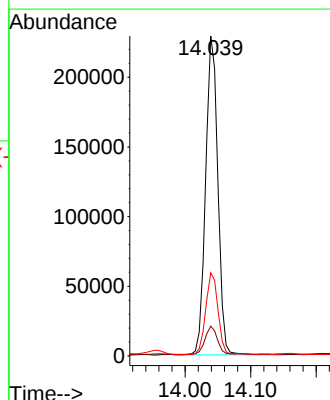
Tgt Ion:240 Resp: 296687

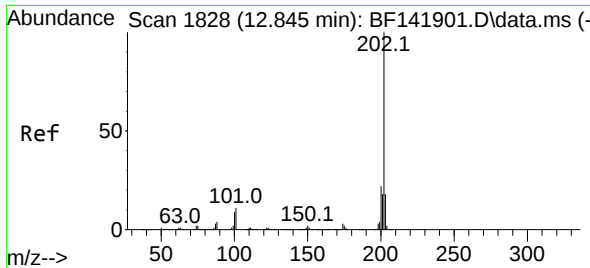
Ion Ratio Lower Upper

240 100

120 9.3 8.4 12.6

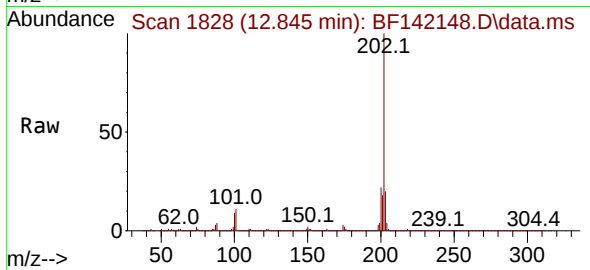
236 26.0 20.5 30.7





#78
Pyrene
Concen: 92.882 ng
RT: 12.845 min Scan# 1828
Delta R.T. 0.000 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

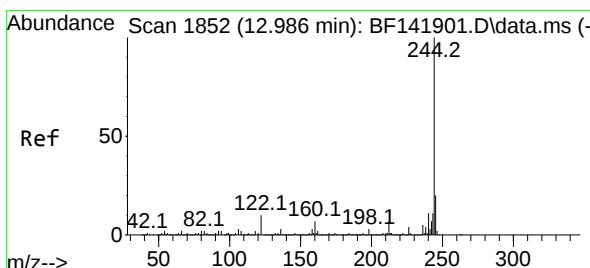
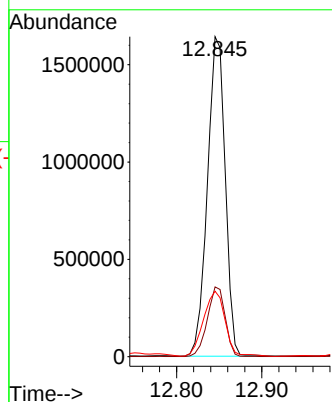
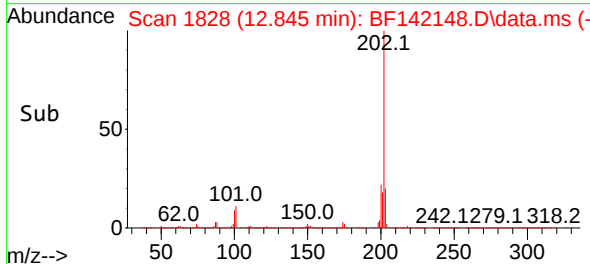
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525



Tgt Ion:202 Resp: 238371
Ion Ratio Lower Upper
202 100
200 21.8 17.3 25.9
203 20.5 14.4 21.6

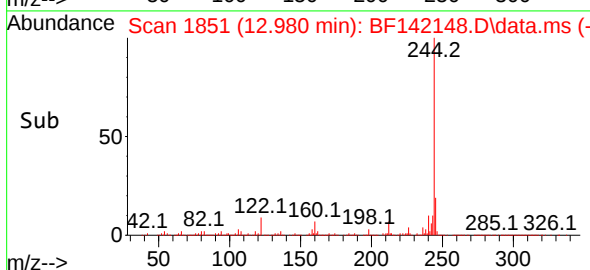
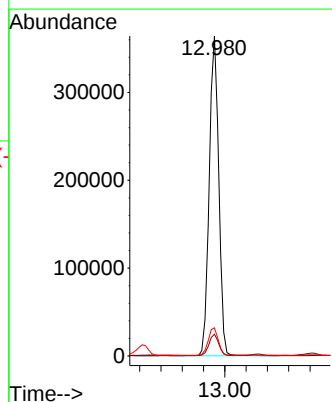
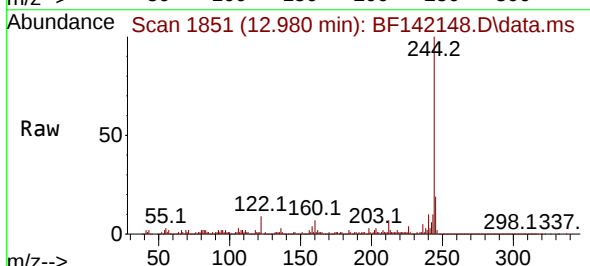
Manual Integrations
APPROVED

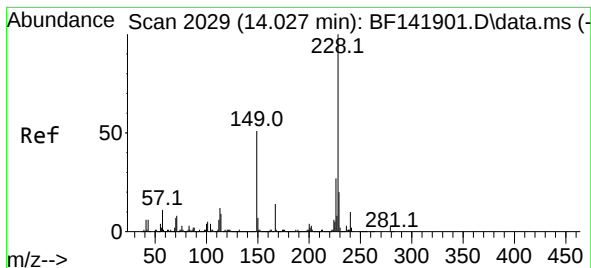
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#79
Terphenyl-d14
Concen: 22.565 ng
RT: 12.980 min Scan# 1851
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:244 Resp: 452811
Ion Ratio Lower Upper
244 100
212 6.8 6.0 9.0
122 8.8 7.7 11.5





#81

Benzo(a)anthracene

Concen: 57.514 ng

RT: 14.033 min Scan# 2029

Delta R.T. 0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNF

ClientSampleId :

PAT-1-032525

Tgt Ion:228 Resp: 1119718

Ion Ratio Lower Upper

228 100

226 28.3 21.8 32.8

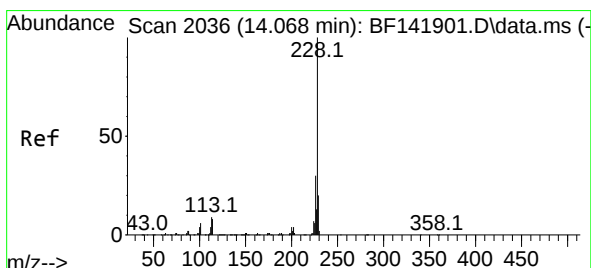
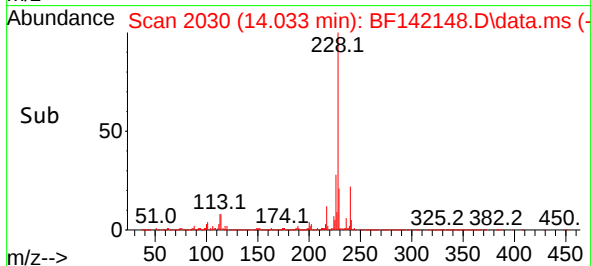
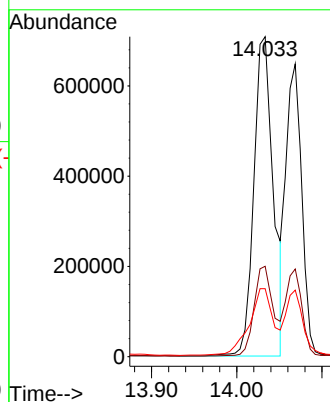
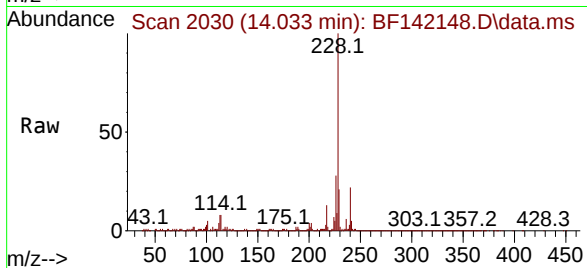
229 21.3 16.0 24.0

Manual Integrations

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Reviewed By :Anahy Claudio 03/28/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#83

Chrysene

Concen: 46.968 ng

RT: 14.069 min Scan# 2036

Delta R.T. 0.000 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

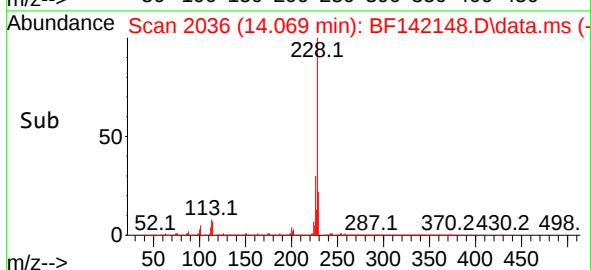
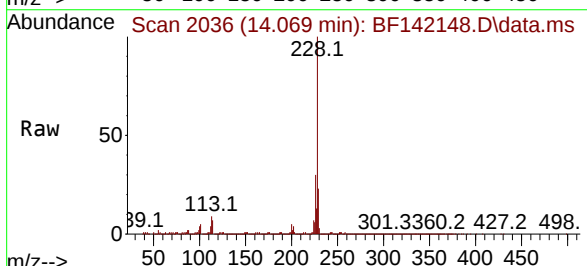
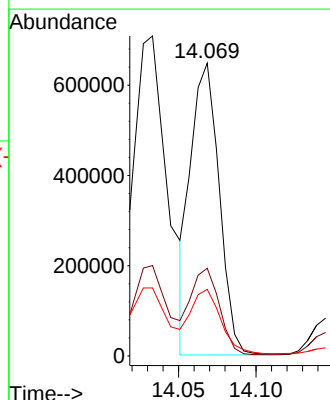
Tgt Ion:228 Resp: 828871

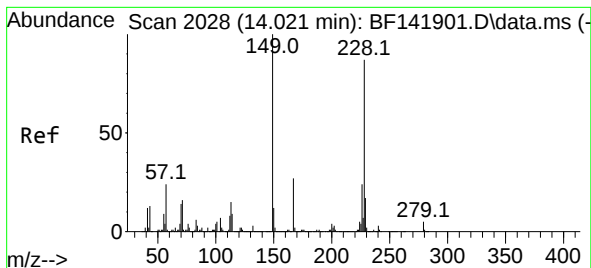
Ion Ratio Lower Upper

228 100

226 30.0 24.1 36.1

229 22.7 15.7 23.5





#84

Bis(2-ethylhexyl)phthalate

Concen: 9.614 ng

RT: 14.016 min Scan# 2028

Delta R.T. -0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

Tgt Ion:149 Resp: 133149

Ion Ratio Lower Upper

149 100

167 27.7 21.4 32.0

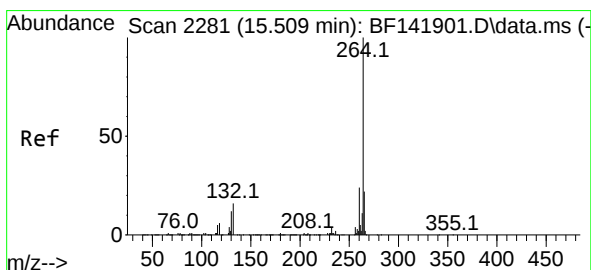
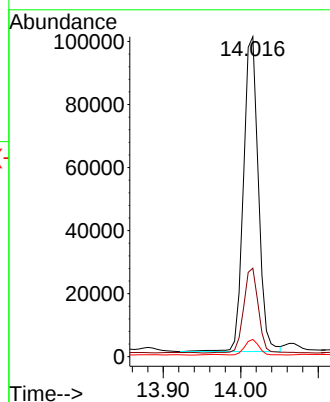
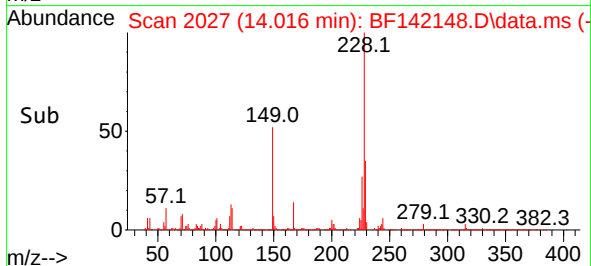
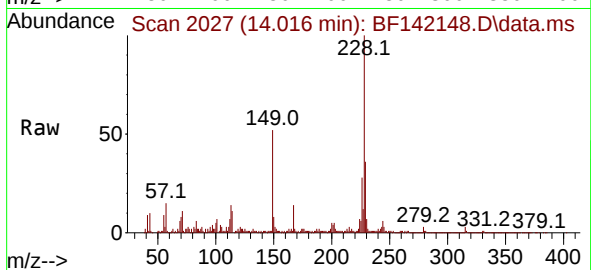
279 5.4 3.8 5.6

Manual Integrations

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Reviewed By :Anahy Claudio 03/28/2025

Supervised By :Jagrut Upadhyay 04/01/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.515 min Scan# 2282

Delta R.T. 0.006 min

Lab File: BF142148.D

Acq: 28 Mar 2025 02:36

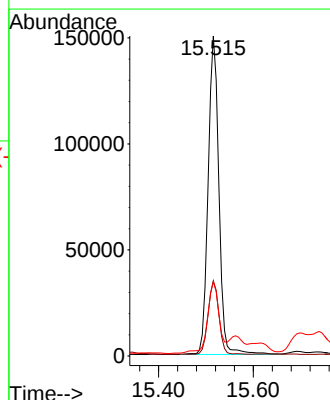
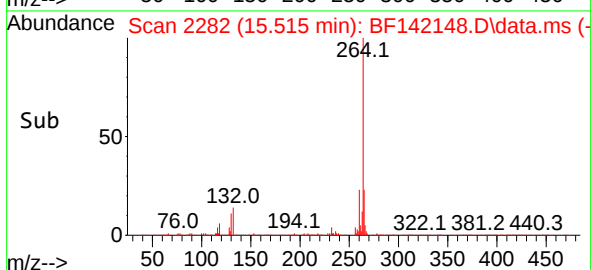
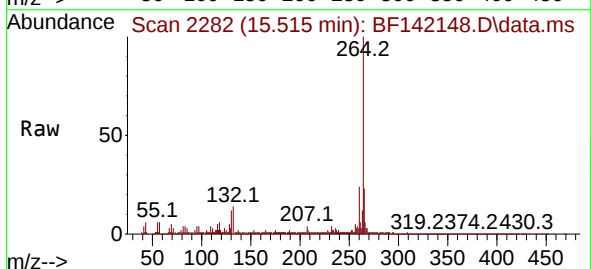
Tgt Ion:264 Resp: 237441

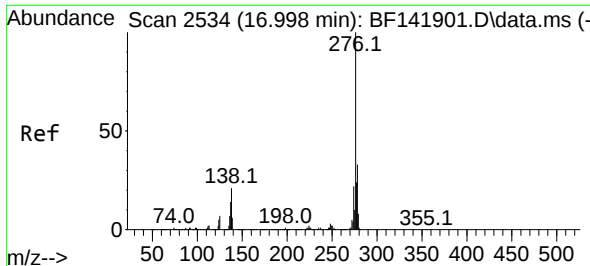
Ion Ratio Lower Upper

264 100

260 23.5 19.1 28.7

265 23.2 17.5 26.3





#87
 Indeno(1,2,3-cd)pyrene
 Concen: 22.396 ng m
 RT: 17.004 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

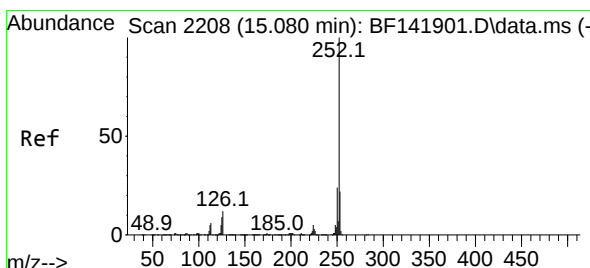
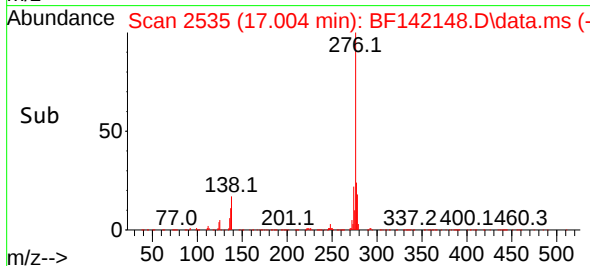
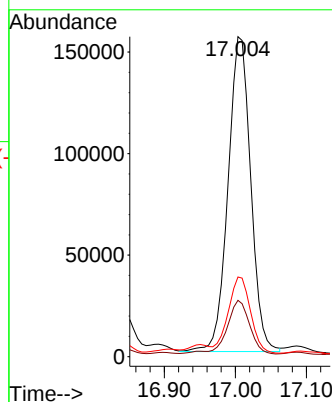
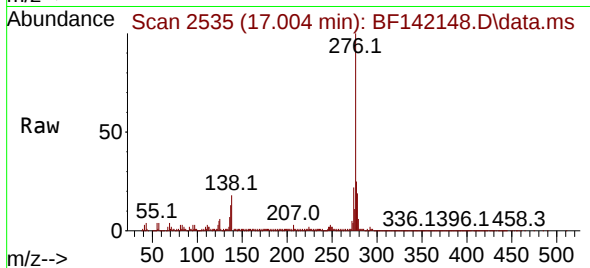
PAT-1-032525

Tgt Ion:276 Resp: 344000
 Ion Ratio Lower Upper
 276 100
 138 3.6 18.4 27.6
 277 4.1 20.3 30.5

Manual Integrations

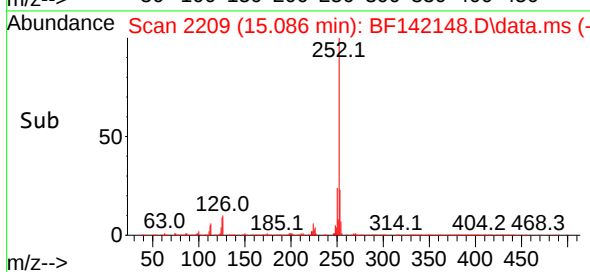
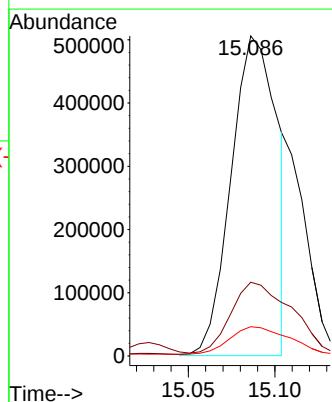
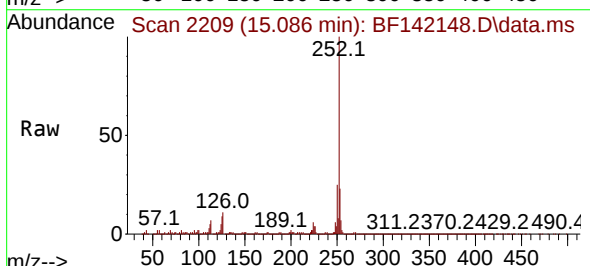
APPROVED

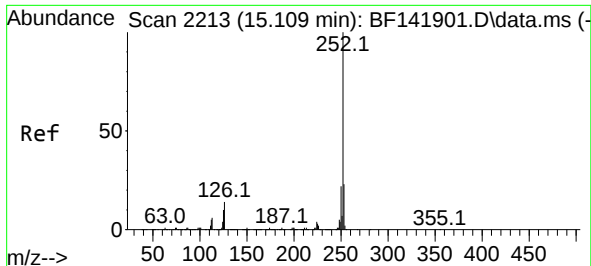
Reviewed By :Anahy Claudio 03/28/2025
 Supervised By :Jagrut Upadhyay 04/01/2025



#88
 Benzo(b)fluoranthene
 Concen: 57.534 ng m
 RT: 15.086 min Scan# 2209
 Delta R.T. 0.006 min
 Lab File: BF142148.D
 Acq: 28 Mar 2025 02:36

Tgt Ion:252 Resp: 936262
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.5 26.3
 125 9.2 7.0 10.4





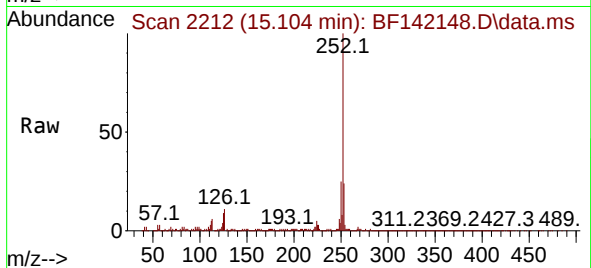
#89
Benzo(k)fluoranthene
Concen: 19.933 ng m
RT: 15.104 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Instrument :

BNA_F

ClientSampleId :

PAT-1-032525

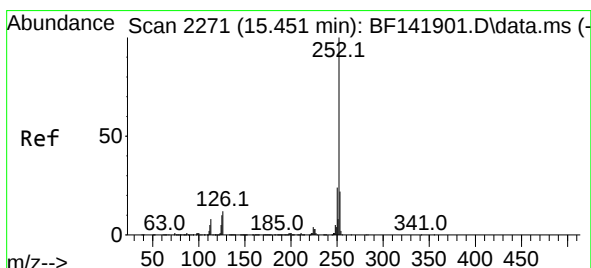
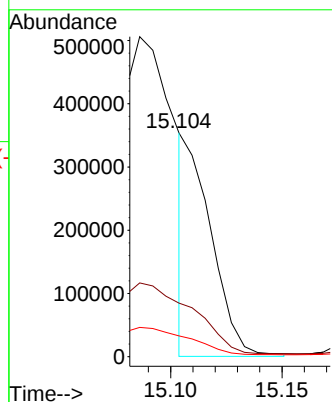
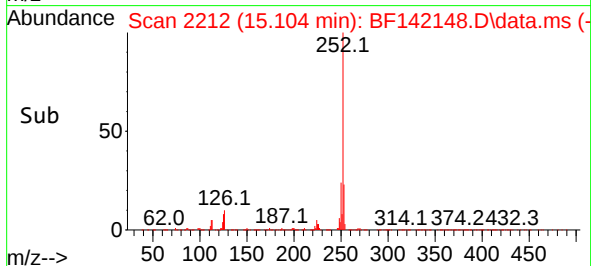


Tgt Ion:252 Resp: 27759
Ion Ratio Lower Upper
252 100
253 23.9 17.7 26.5
125 9.3 7.2 10.8

Manual Integrations

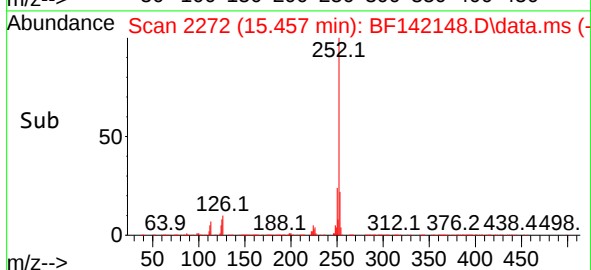
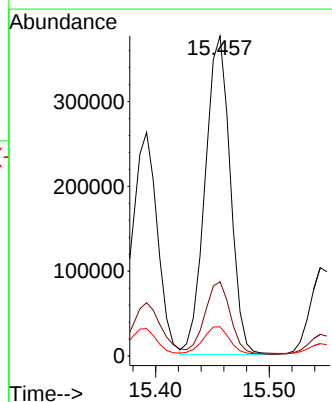
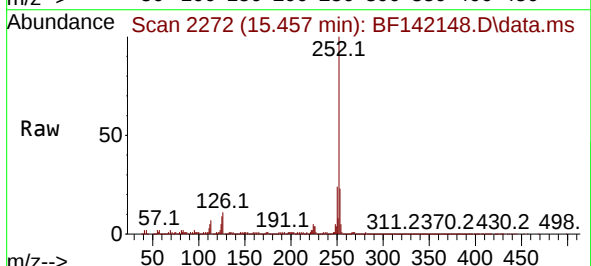
APPROVED

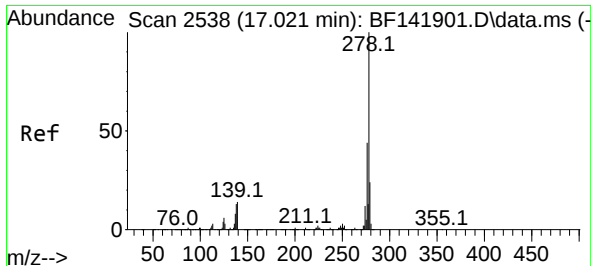
Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#90
Benzo(a)pyrene
Concen: 45.277 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

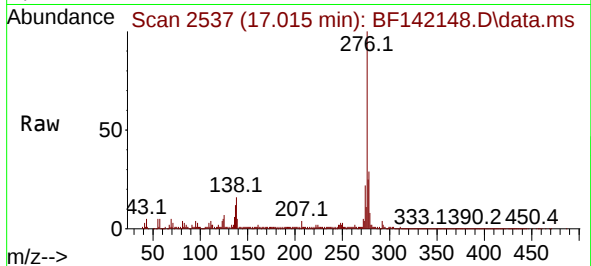
Tgt Ion:252 Resp: 576525
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.0
125 9.1 7.8 11.8





#91
Dibenzo(a,h)anthracene
Concen: 6.437 ng
RT: 17.015 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

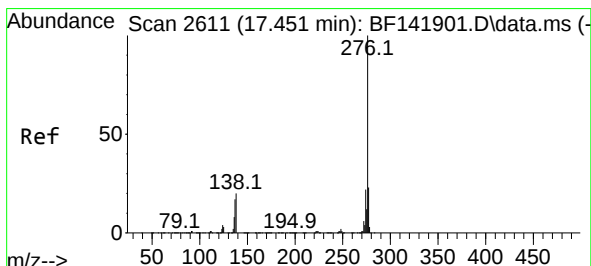
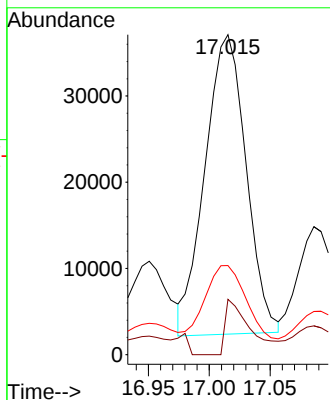
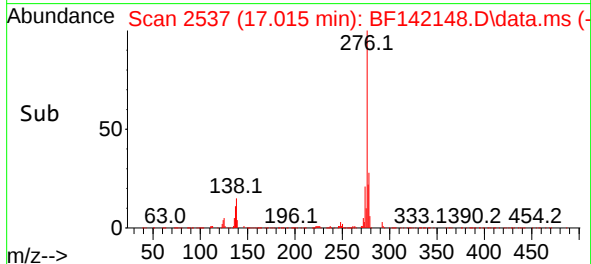
Instrument :
BNA_F
ClientSampleId :
PAT-1-032525



Tgt Ion:278 Resp: 81579
Ion Ratio Lower Upper
278 100
139 17.3 11.4 17.2
279 27.8 18.8 28.2

Manual Integrations
APPROVED

Reviewed By :Anahy Claudio 03/28/2025
Supervised By :Jagrut Upadhyay 04/01/2025



#92
Benzo(g,h,i)perylene
Concen: 25.287 ng
RT: 17.457 min Scan# 2612
Delta R.T. 0.006 min
Lab File: BF142148.D
Acq: 28 Mar 2025 02:36

Tgt Ion:276 Resp: 316674
Ion Ratio Lower Upper
276 100
277 24.5 18.7 28.1
138 17.7 15.8 23.8

