

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF052725\
 Data File : BF142561.D
 Acq On : 27 May 2025 14:55
 Operator : RC/JU
 Sample : Q2127-11
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

Quant Time: May 27 15:31:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF052025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 20 16:26:47 2025
 Response via : Initial Calibration

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

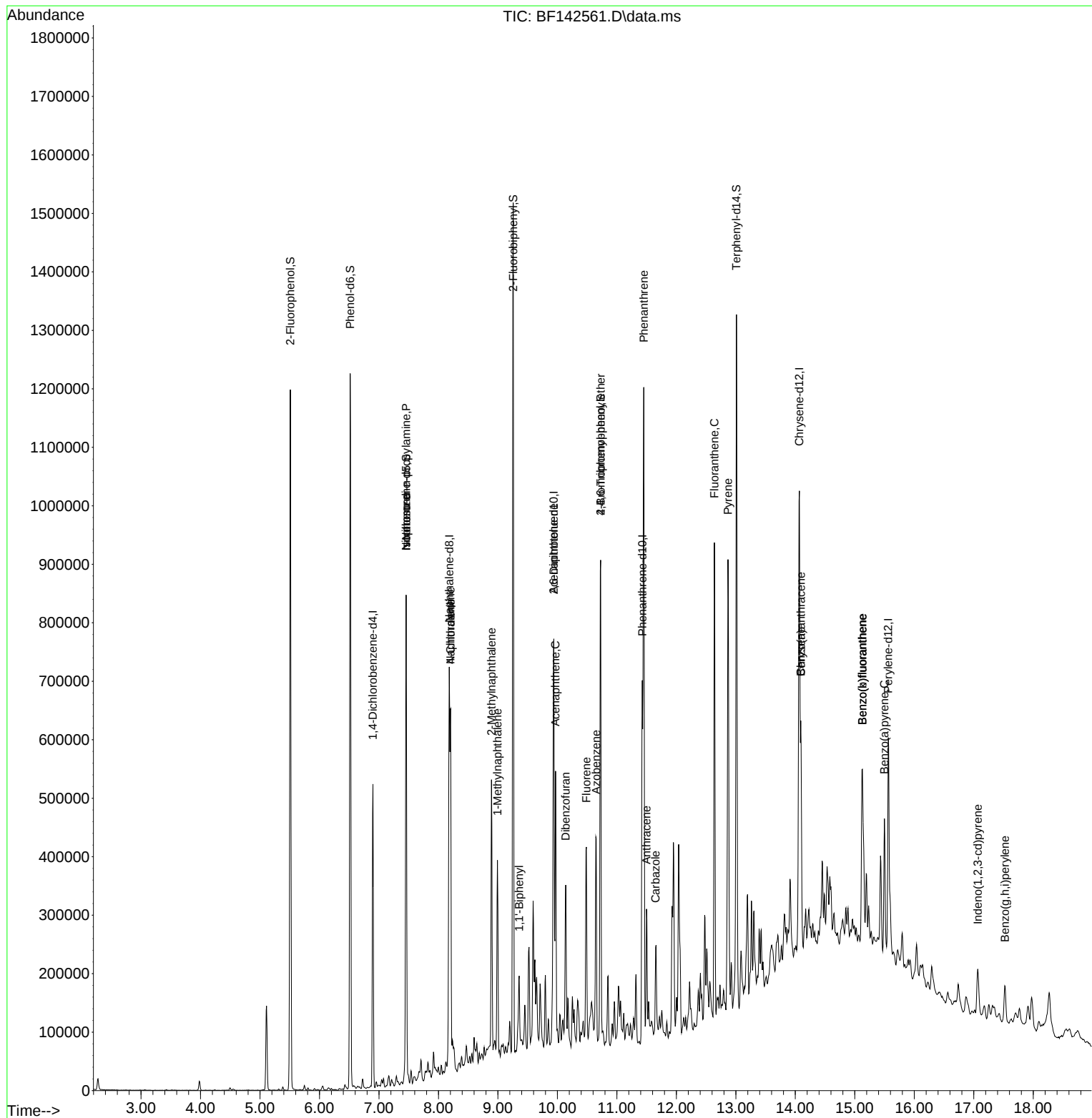
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.898	152	110958	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	411515	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	214598	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	322167	20.000	ng	0.00
76) Chrysene-d12	14.068	240	259845	20.000	ng	0.00
86) Perylene-d12	15.562	264	226255	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	454400	68.995	ng	0.00
7) Phenol-d6	6.516	99	567944	71.638	ng	-0.02
23) Nitrobenzene-d5	7.457	82	343202	45.477	ng	-0.02
42) 2,4,6-Tribromophenol	10.727	330	143833	60.389	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	661778	41.380	ng	-0.01
79) Terphenyl-d14	13.010	244	564484	29.687	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.457	70	48417	9.854	ng	# 75
25) Isophorone	7.457	82	326675	25.890	ng	# 63
31) Naphthalene	8.204	128	369906	18.255	ng	99
33) 4-Chloroaniline	8.204	127	48043	5.851	ng	# 31
37) 2-Methylnaphthalene	8.892	142	182875	14.346	ng	100
38) 1-Methylnaphthalene	8.992	142	122714	9.306	ng	99
46) 1,1'-Biphenyl	9.357	154	54153	3.253	ng	100
51) 2,6-Dinitrotoluene	9.939	165	32370	10.592	ng	# 29
52) Acenaphthene	9.969	154	136406	10.755	ng	99
55) Dibenzofuran	10.139	168	113574	6.223	ng	# 97
58) Fluorene	10.486	166	137844	9.776	ng	99
63) Azobenzene	10.651	77	80429	6.475	ng	# 1
67) 4-Bromophenyl-phenylether	10.727	248	9169	2.407	ng	# 1
71) Phenanthrene	11.451	178	588675	34.191	ng	99
72) Anthracene	11.498	178	131593	7.489	ng	100
73) Carbazole	11.651	167	84544	5.628	ng	98
75) Fluoranthene	12.639	202	461644	28.695	ng	98
78) Pyrene	12.868	202	462651	19.086	ng	98
81) Benzo(a)anthracene	14.092	228	212292	12.235	ng	93
83) Chrysene	14.092	228	212292	13.616	ng	96
87) Indeno(1,2,3-cd)pyrene	17.068	276	62193	3.661	ng	96
88) Benzo(b)fluoranthene	15.127	252	273894	20.454	ng	# 95
89) Benzo(k)fluoranthene	15.127	252	273894	21.838	ng	# 95
90) Benzo(a)pyrene	15.498	252	142398	11.282	ng	# 95
92) Benzo(g,h,i)perylene	17.527	276	61337	4.451	ng	97

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

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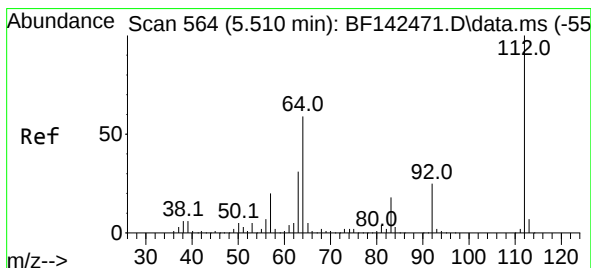
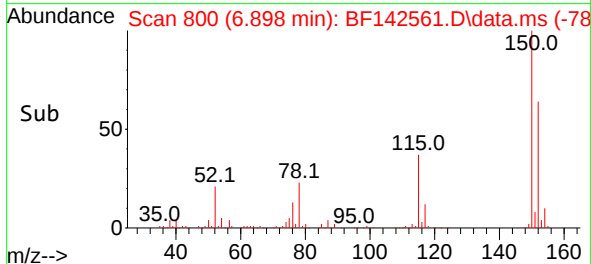
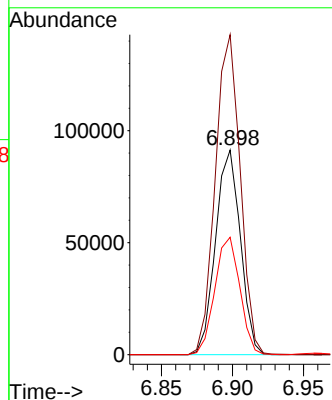
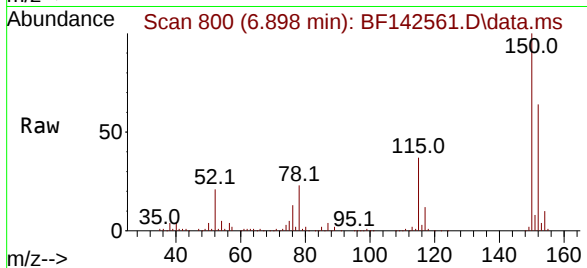




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.898 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

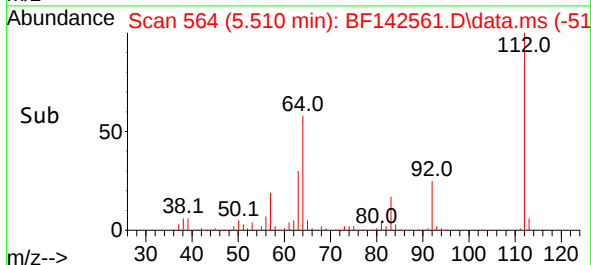
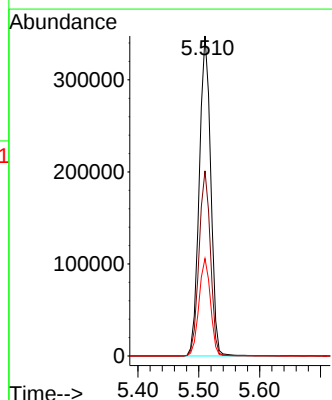
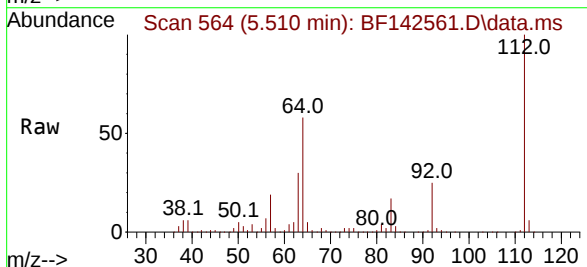
Instrument :
BNA_F
ClientSampleId :
COMP-2

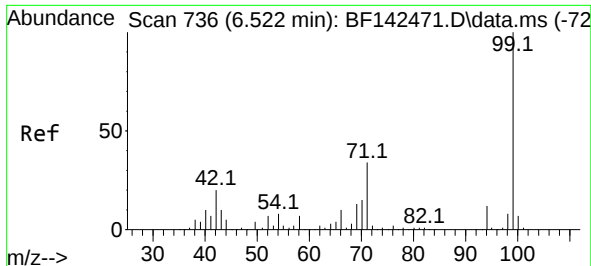
Tgt Ion:152 Resp: 110958
Ion Ratio Lower Upper
152 100
150 156.4 128.2 192.4
115 57.4 48.3 72.5



#5
2-Fluorophenol
Concen: 68.995 ng
RT: 5.510 min Scan# 564
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:112 Resp: 454400
Ion Ratio Lower Upper
112 100
64 57.8 47.5 71.3
63 30.5 24.9 37.3

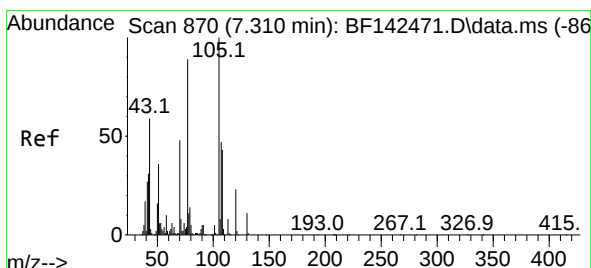
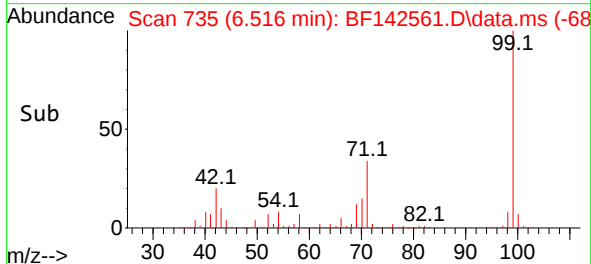
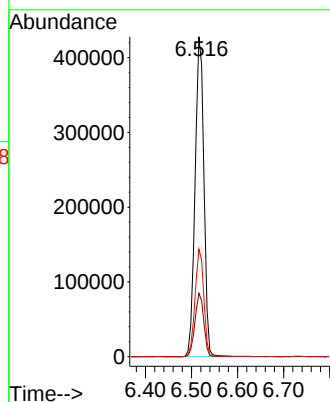
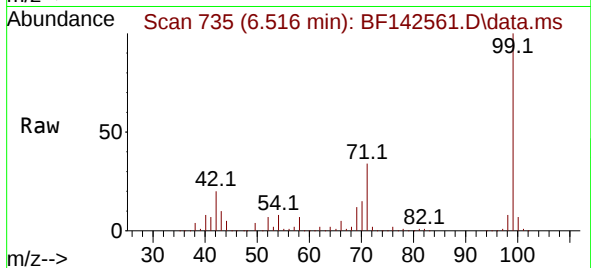




#7
Phenol-d6
Concen: 71.638 ng
RT: 6.516 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

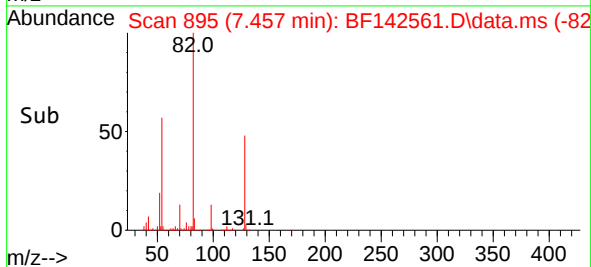
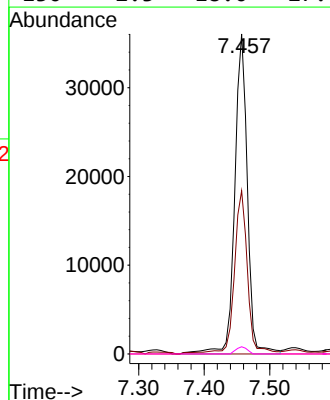
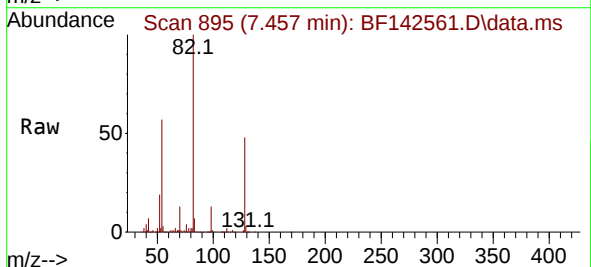
Instrument :
BNA_F
ClientSampleId :
COMP-2

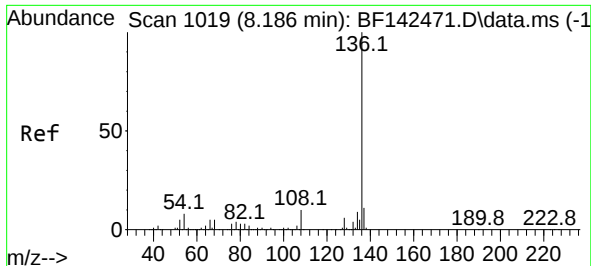
Tgt Ion: 99 Resp: 567944
Ion Ratio Lower Upper
99 100
42 19.8 16.2 24.2
71 33.6 27.3 40.9



#19
n-Nitroso-di-n-propylamine
Concen: 9.854 ng
RT: 7.457 min Scan# 895
Delta R.T. 0.129 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion: 70 Resp: 48417
Ion Ratio Lower Upper
70 100
42 51.0 52.4 78.6#
101 0.0 7.8 11.8#
130 2.3 18.0 27.0#



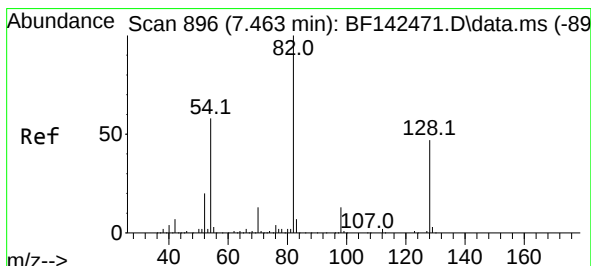
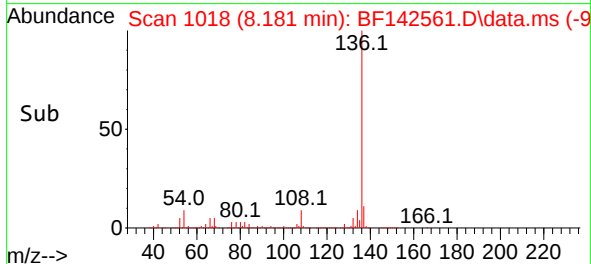
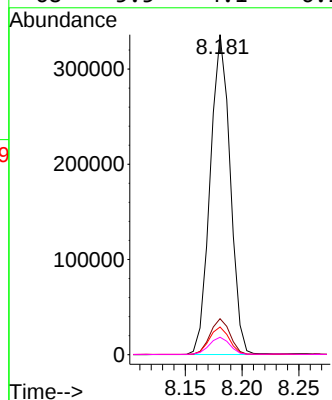
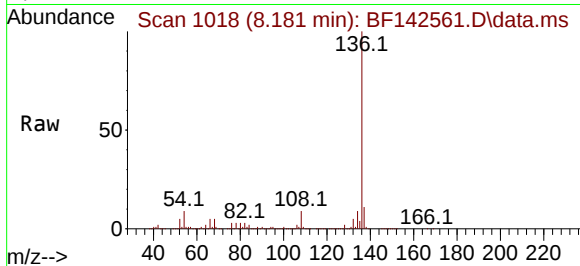


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Instrument :
BNA_F
ClientSampleId :
COMP-2

Tgt Ion:136 Resp: 411515

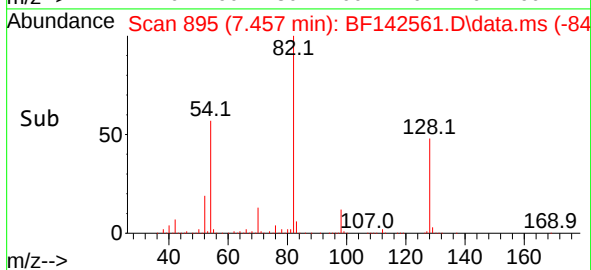
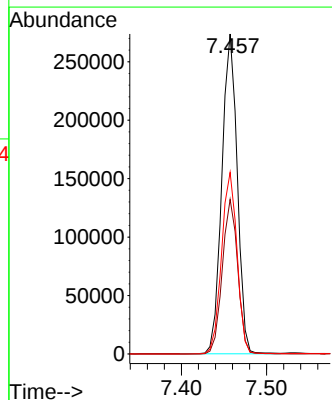
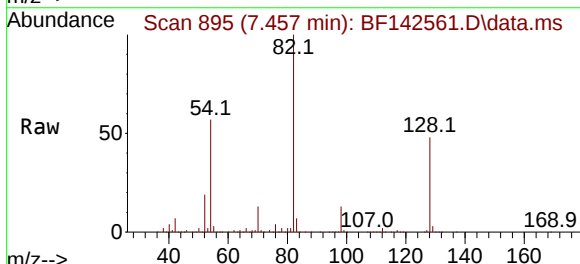
Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.6	13.0
54	8.6	6.6	10.0
68	5.5	4.1	6.1

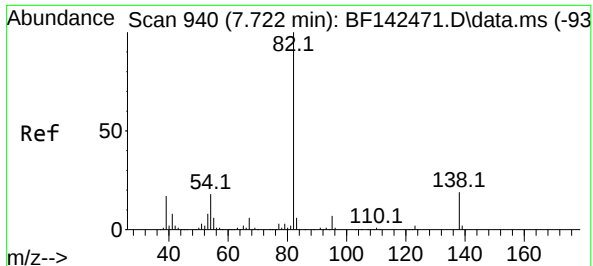


#23
Nitrobenzene-d5
Concen: 45.477 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.018 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion: 82 Resp: 343202

Ion	Ratio	Lower	Upper
82	100		
128	48.3	37.4	56.2
54	56.7	46.6	70.0

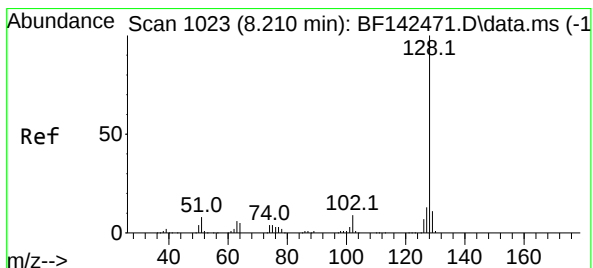
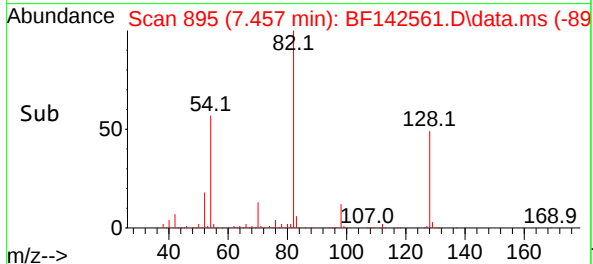
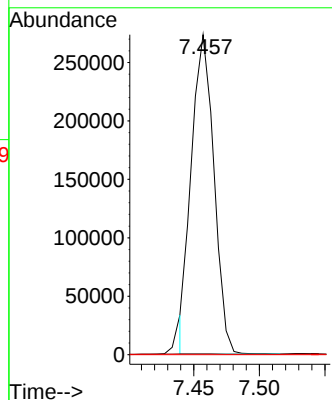
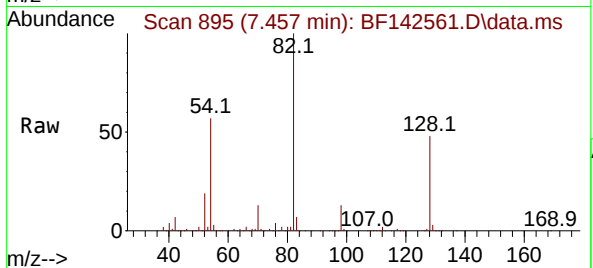




#25
Isophorone
Concen: 25.890 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.276 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

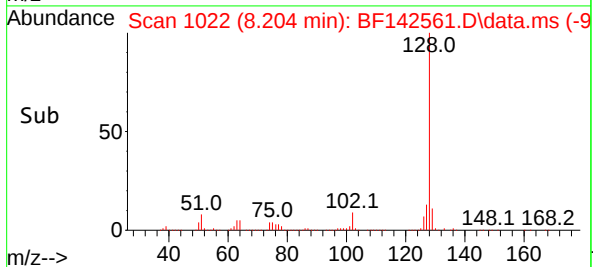
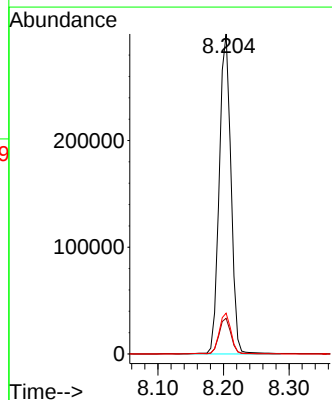
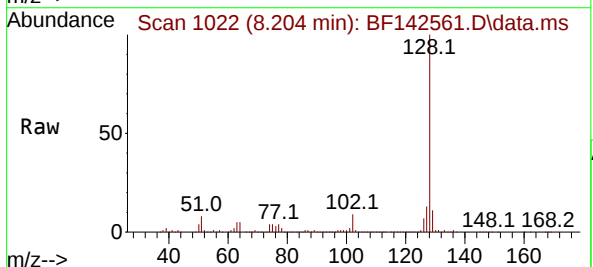
Instrument :
BNA_F
ClientSampleId :
COMP-2

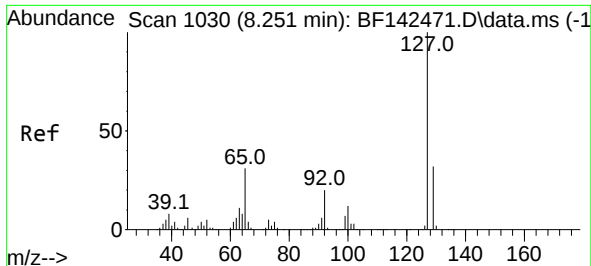
Tgt Ion: 82 Resp: 326675
Ion Ratio Lower Upper
82 100
95 0.2 6.0 9.0#
138 0.0 15.5 23.3#



#31
Naphthalene
Concen: 18.255 ng
RT: 8.204 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:128 Resp: 369906
Ion Ratio Lower Upper
128 100
129 11.2 8.9 13.3
127 12.8 10.5 15.7

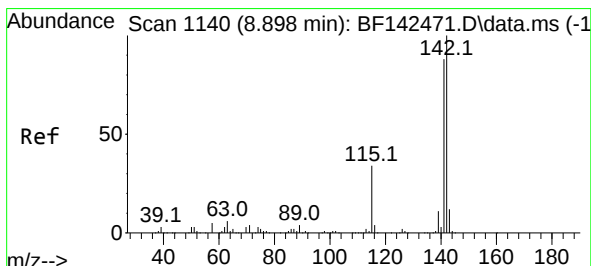
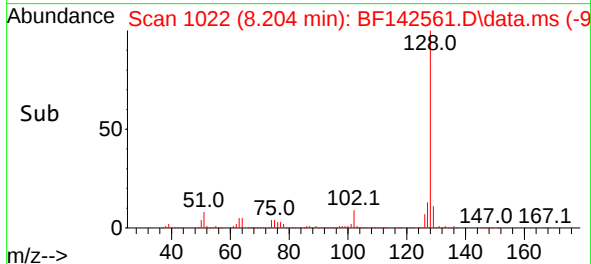
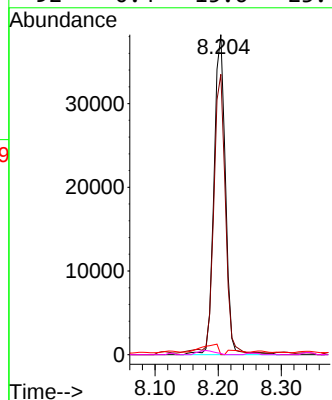
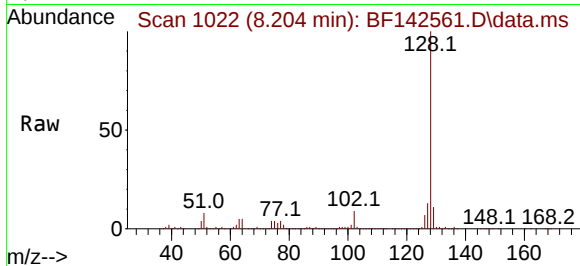




#33
4-Chloroaniline
Concen: 5.851 ng
RT: 8.204 min Scan# 1139
Delta R.T. -0.053 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

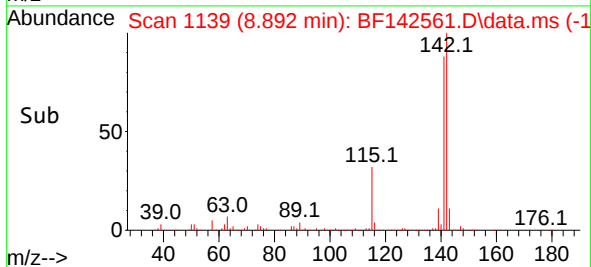
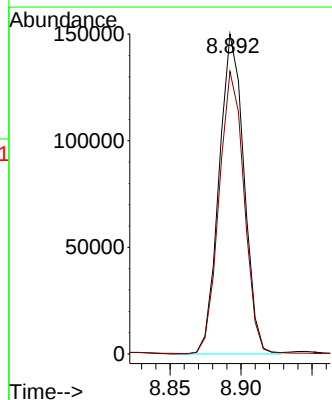
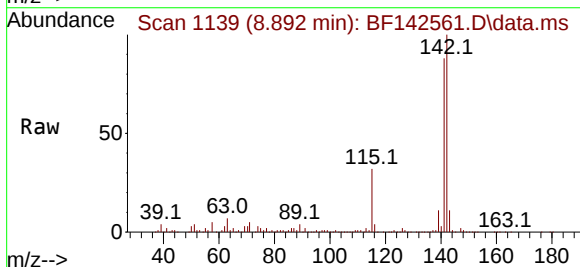
Instrument :
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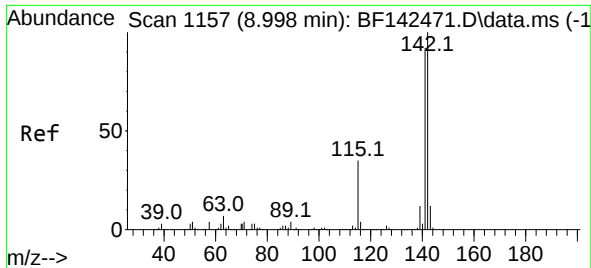
Tgt Ion:127	Resp:	48043
Ion	Ratio	Lower Upper
127	100	
129	87.6	26.1 39.1#
65	0.0	24.9 37.3#
92	0.4	15.6 23.4#



#37
2-Methylnaphthalene
Concen: 14.346 ng
RT: 8.892 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:142	Resp:	182875
Ion	Ratio	Lower Upper
142	100	
141	88.3	70.7 106.1





#38

1-Methylnaphthalene

Concen: 9.306 ng

RT: 8.992 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

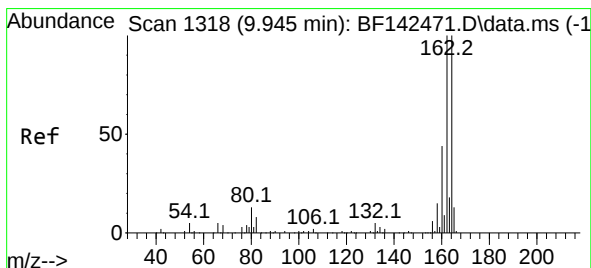
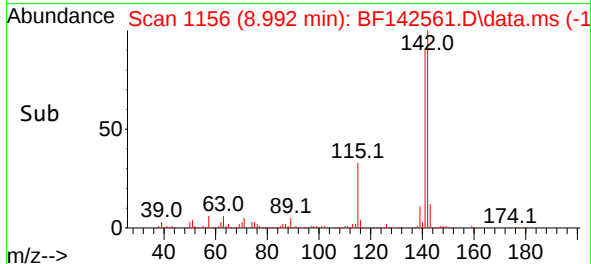
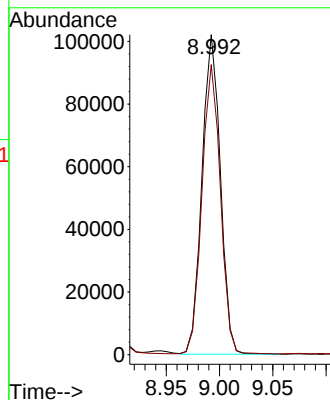
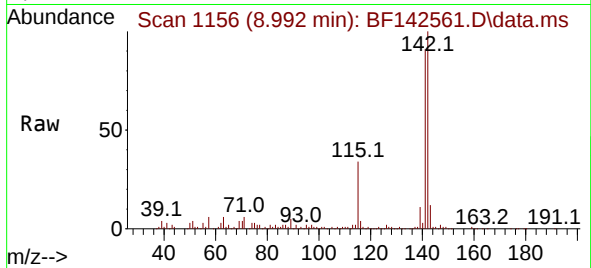
COMP-2

Tgt Ion:142 Resp: 122714

Ion Ratio Lower Upper

142 100

141 90.6 73.4 110.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

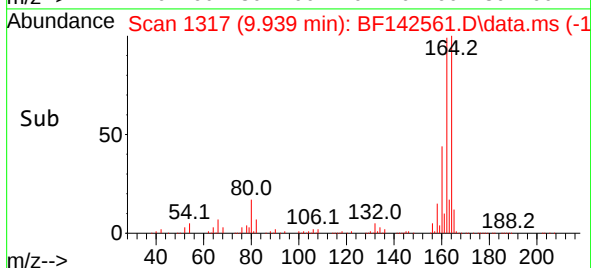
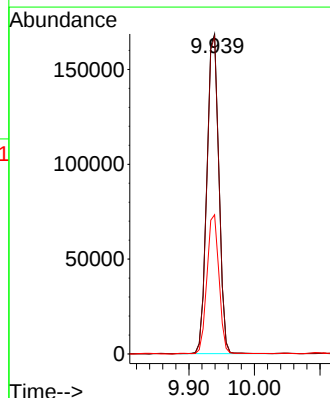
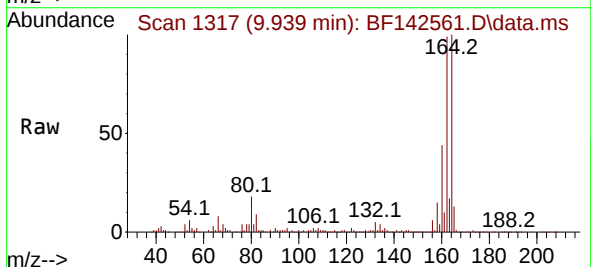
Tgt Ion:164 Resp: 214598

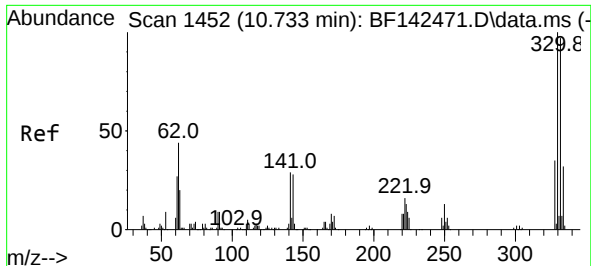
Ion Ratio Lower Upper

164 100

162 99.3 80.2 120.4

160 43.5 35.6 53.4





#42

2,4,6-Tribromophenol

Concen: 60.389 ng

RT: 10.727 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

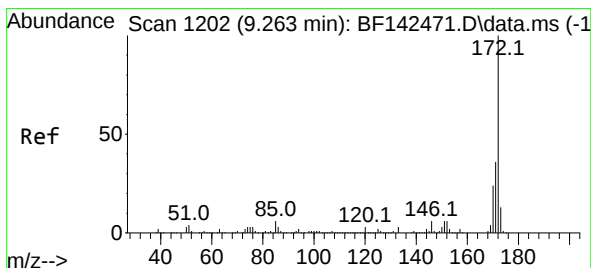
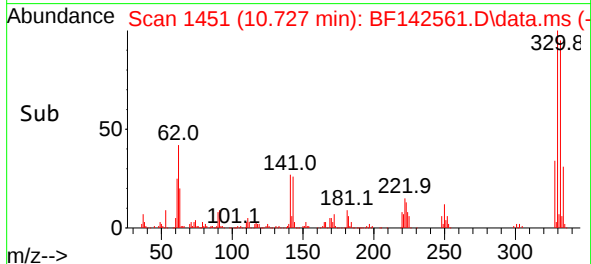
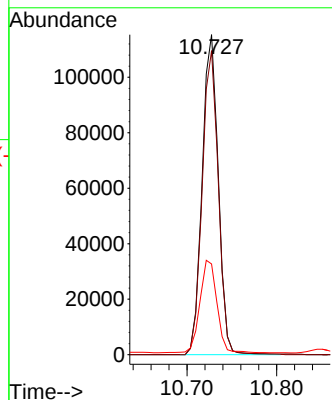
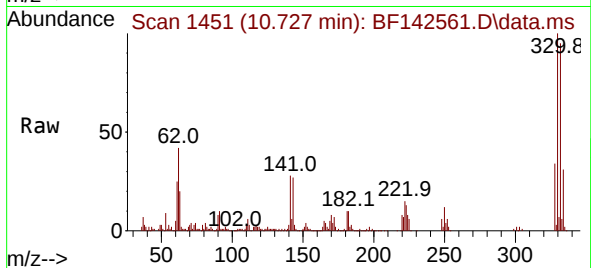
Tgt Ion:330 Resp: 143833

Ion Ratio Lower Upper

330 100

332 95.2 77.6 116.4

141 30.5 24.6 36.8



#45

2-Fluorobiphenyl

Concen: 41.380 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

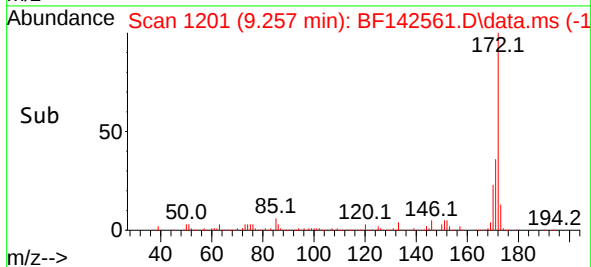
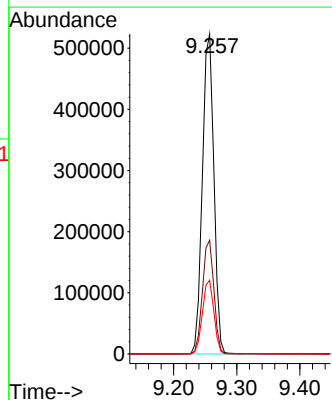
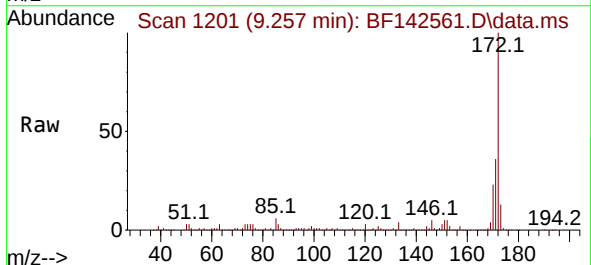
Tgt Ion:172 Resp: 661778

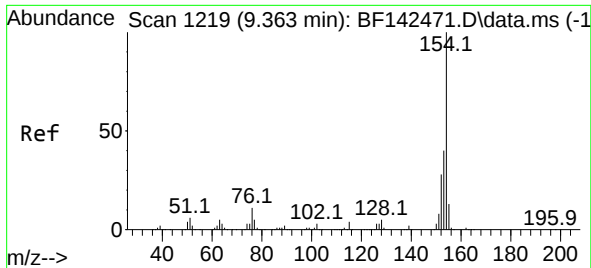
Ion Ratio Lower Upper

172 100

171 35.6 28.6 42.8

170 23.0 18.9 28.3

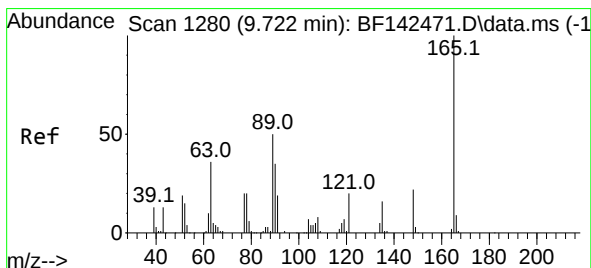
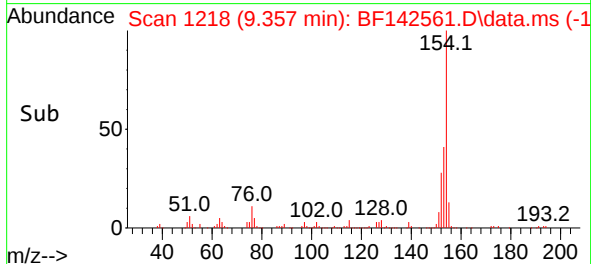
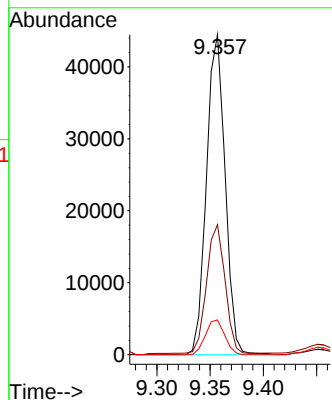
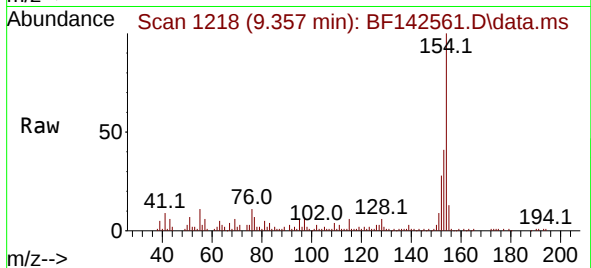




#46
1,1'-Biphenyl
Concen: 3.253 ng
RT: 9.357 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

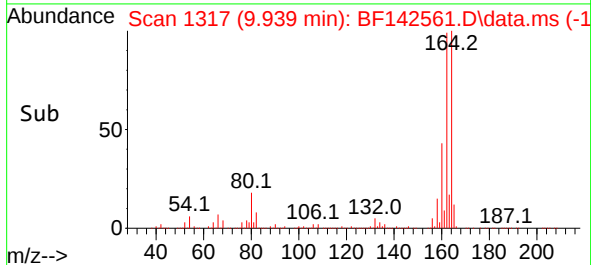
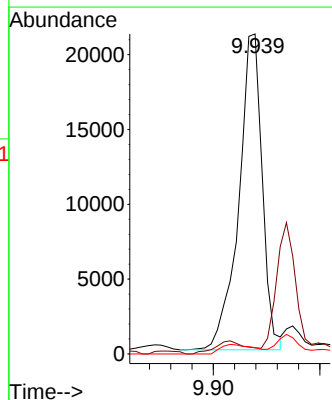
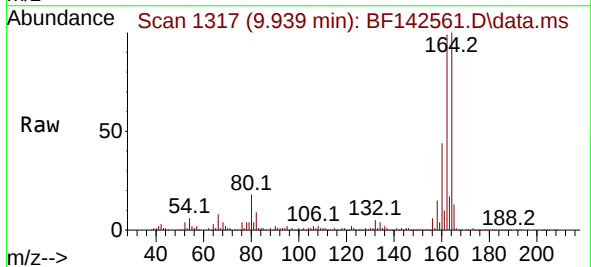
Instrument :
BNA_F
ClientSampleId :
COMP-2

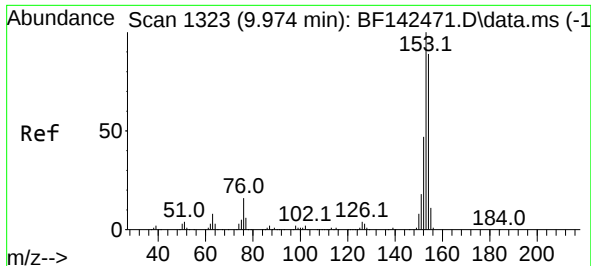
Tgt Ion:154 Resp: 54153
Ion Ratio Lower Upper
154 100
153 40.6 20.4 60.4
76 10.9 0.0 30.8



#51
2,6-Dinitrotoluene
Concen: 10.592 ng
RT: 9.939 min Scan# 1317
Delta R.T. 0.212 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:165 Resp: 32370
Ion Ratio Lower Upper
165 100
63 1.9 42.9 64.3#
89 2.0 40.2 60.4#

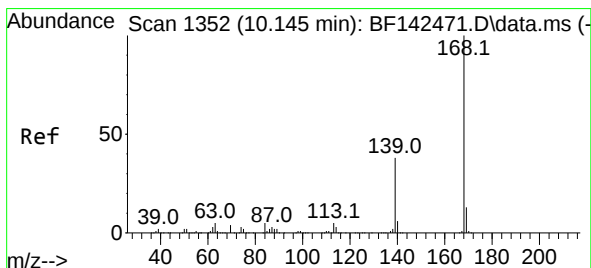
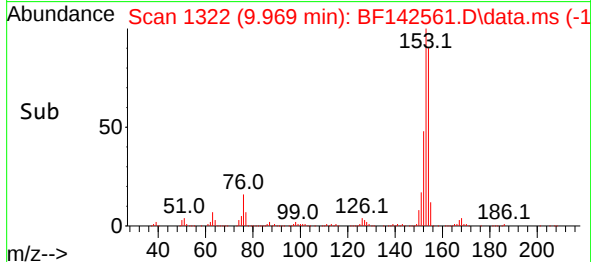
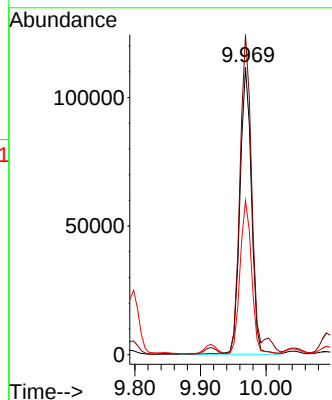
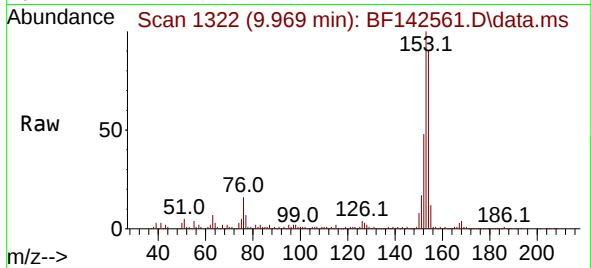




#52
Acenaphthene
Concen: 10.755 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

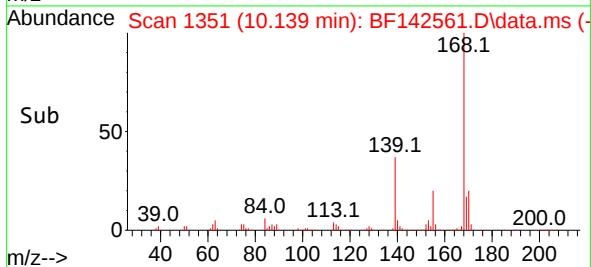
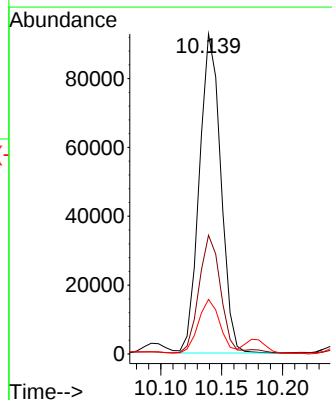
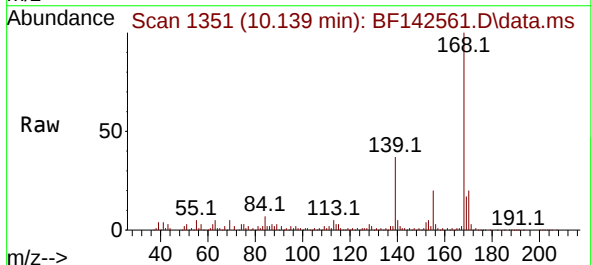
Instrument :
BNA_F
ClientSampleId :
COMP-2

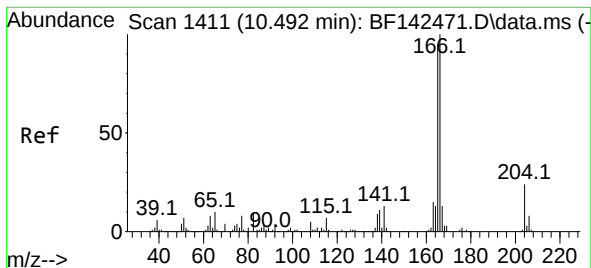
Tgt Ion:154 Resp: 136406
Ion Ratio Lower Upper
154 100
153 111.2 90.0 135.0
152 53.6 42.6 64.0



#55
Dibenzofuran
Concen: 6.223 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:168 Resp: 113574
Ion Ratio Lower Upper
168 100
139 37.1 30.2 45.2
169 17.1 10.7 16.1#





#58

Fluorene

Concen: 9.776 ng

RT: 10.486 min Scan# 1411

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

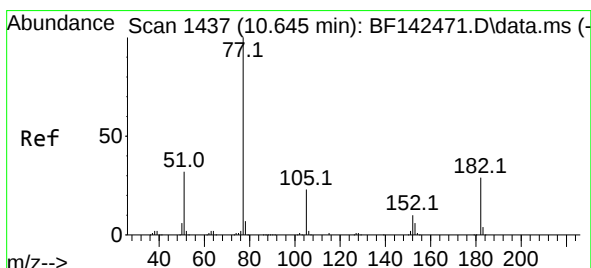
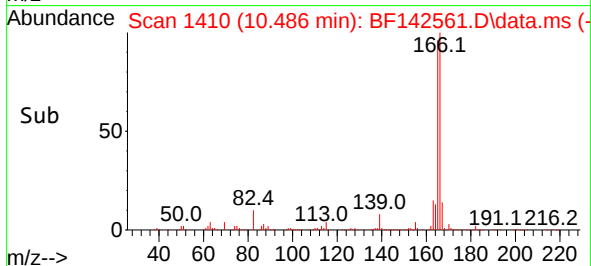
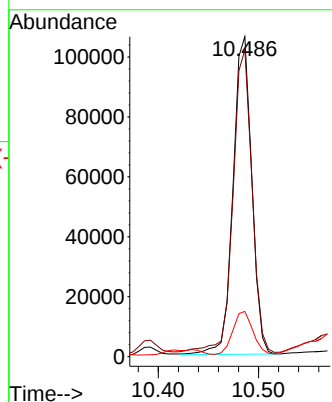
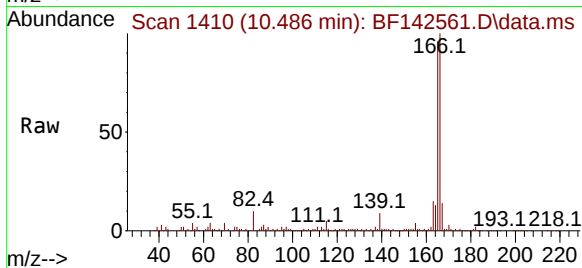
Tgt Ion:166 Resp: 137844

Ion Ratio Lower Upper

166 100

165 95.9 75.8 113.8

167 14.2 10.6 16.0



#63

Azobenzene

Concen: 6.475 ng

RT: 10.651 min Scan# 1438

Delta R.T. 0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Tgt Ion: 77 Resp: 80429

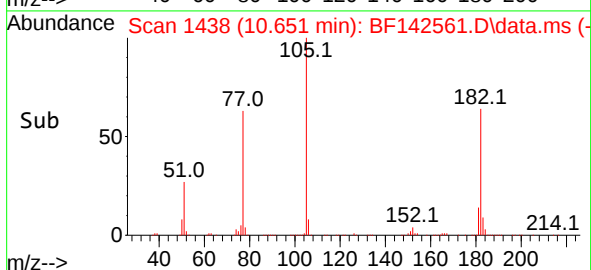
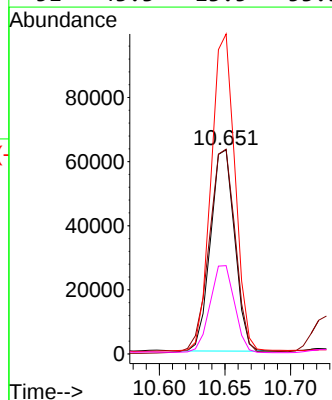
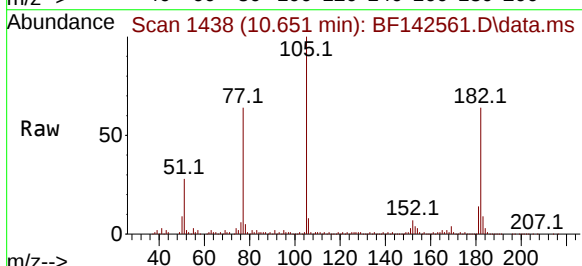
Ion Ratio Lower Upper

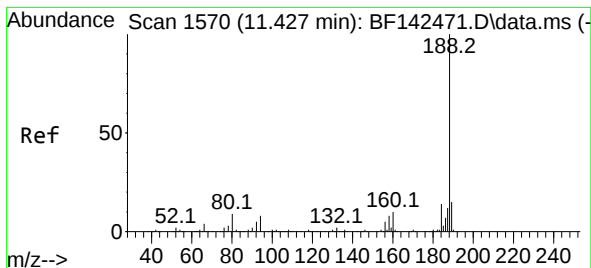
77 100

182 100.3 9.0 49.0#

105 156.7 2.4 42.4#

51 43.3 13.5 53.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.427 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

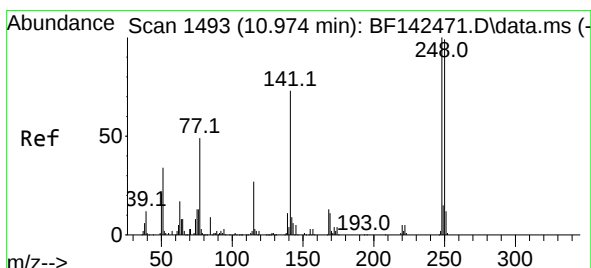
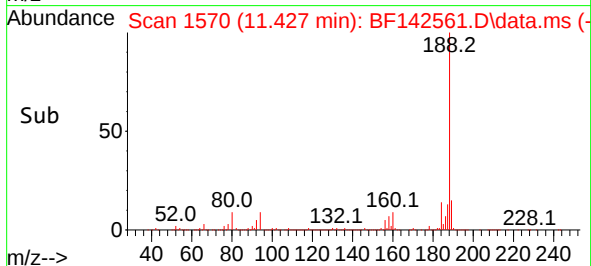
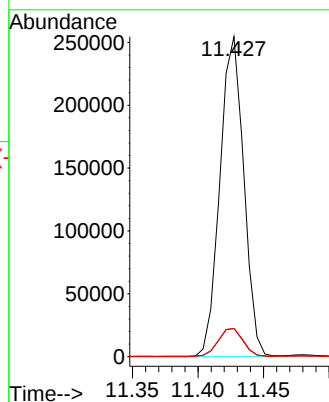
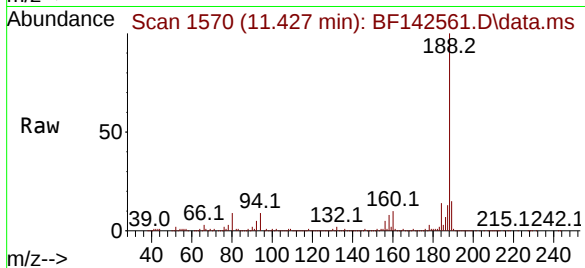
Tgt Ion:188 Resp: 322167

Ion Ratio Lower Upper

188 100

94 8.8 6.6 10.0

80 8.8 7.4 11.0



#67

4-Bromophenyl-phenylether

Concen: 2.407 ng

RT: 10.727 min Scan# 1451

Delta R.T. -0.247 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

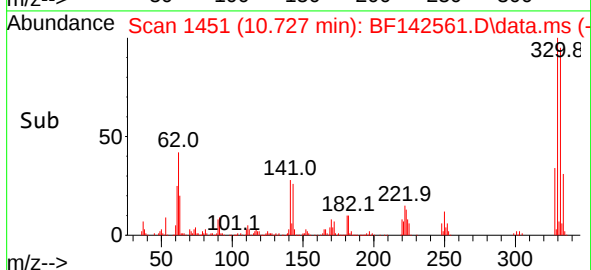
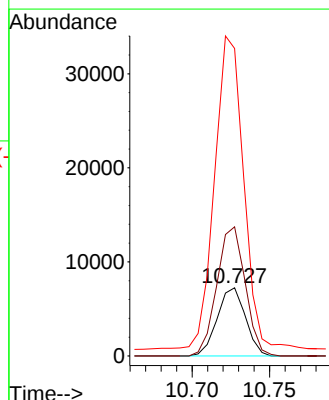
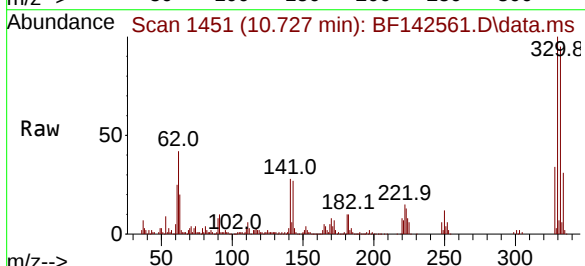
Tgt Ion:248 Resp: 9169

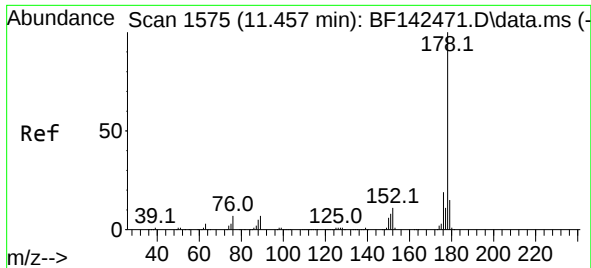
Ion Ratio Lower Upper

248 100

250 189.6 79.0 118.4#

141 451.5 58.4 87.6#

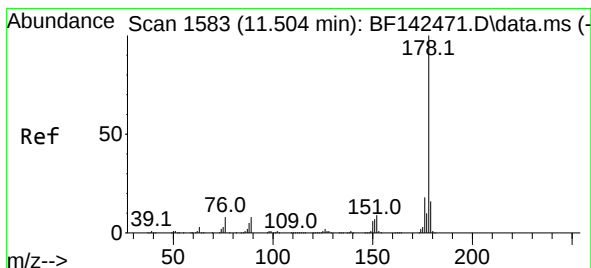
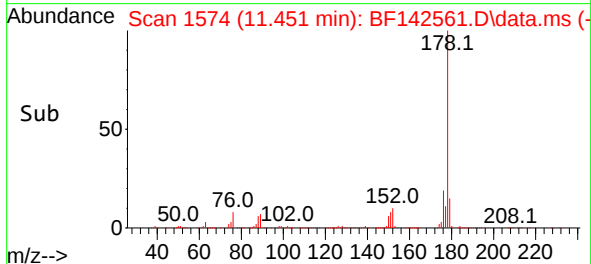
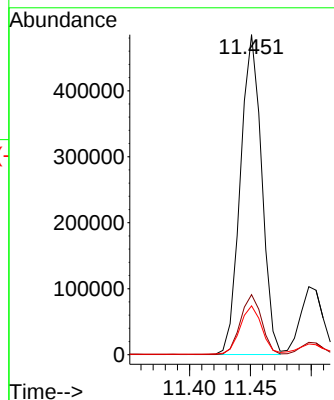
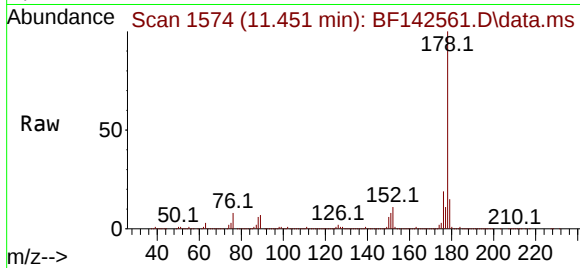




#71
Phenanthrene
Concen: 34.191 ng
RT: 11.451 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

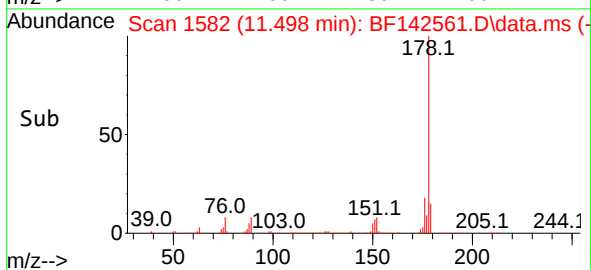
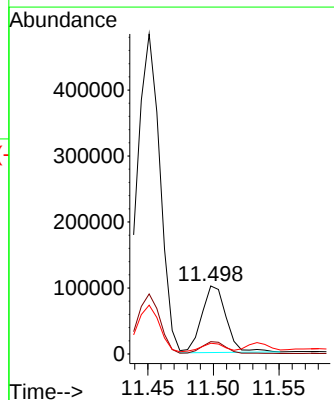
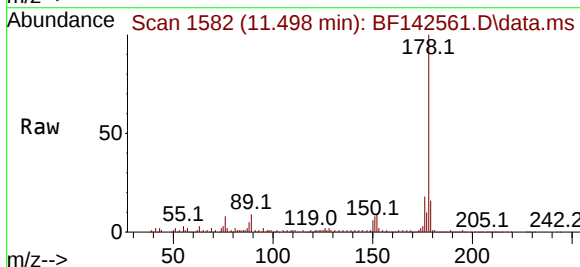
Instrument :
BNA_F
ClientSampleId :
COMP-2

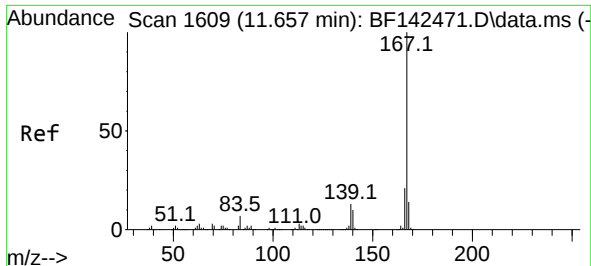
Tgt Ion:178 Resp: 588675
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.0
179 15.2 12.3 18.5



#72
Anthracene
Concen: 7.489 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142561.D
Acq: 27 May 2025 14:55

Tgt Ion:178 Resp: 131593
Ion Ratio Lower Upper
178 100
176 18.2 14.6 21.8
179 15.7 12.4 18.6

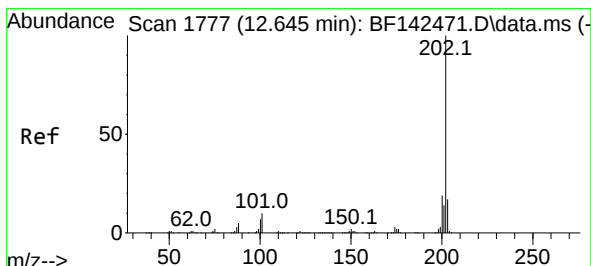
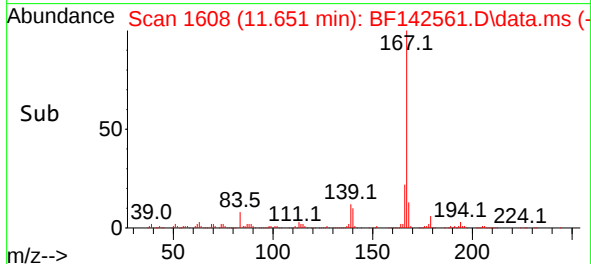
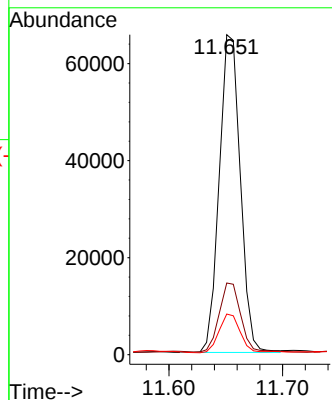
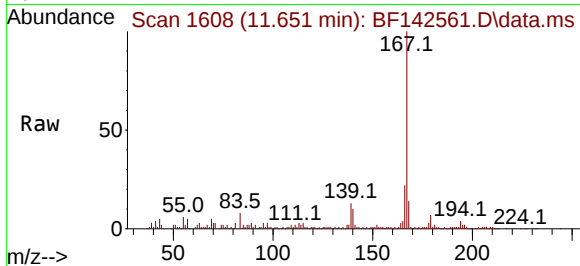




#73
 Carbazole
 Concen: 5.628 ng
 RT: 11.651 min Scan# 1608
 Delta R.T. -0.012 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

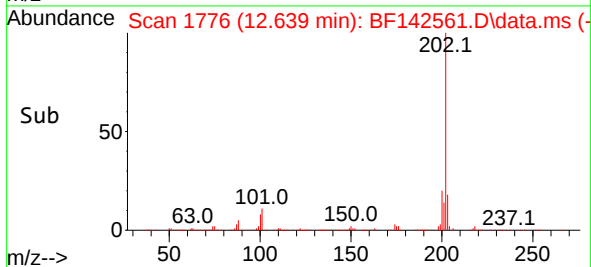
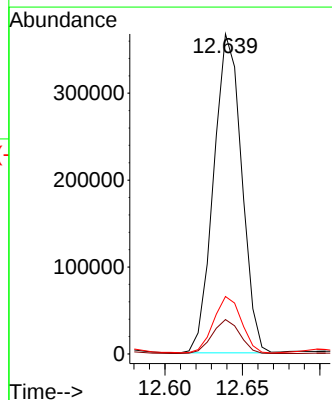
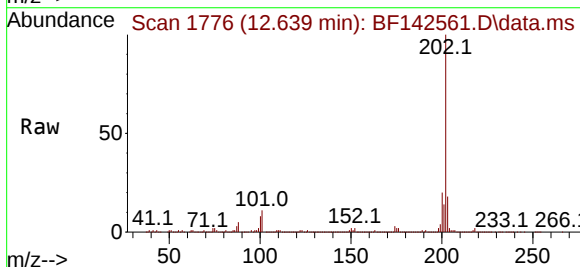
Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

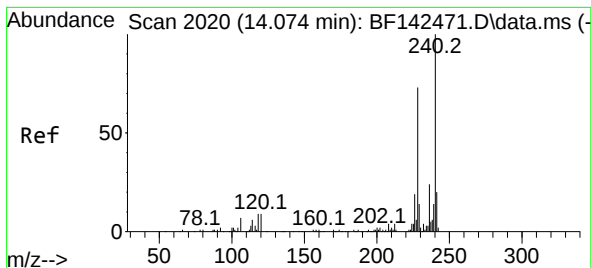
Tgt Ion:167 Resp: 84544
 Ion Ratio Lower Upper
 167 100
 166 22.4 16.9 25.3
 139 12.7 10.2 15.4



#75
 Fluoranthene
 Concen: 28.695 ng
 RT: 12.639 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

Tgt Ion:202 Resp: 461644
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 29.6
 203 18.0 0.0 37.2





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

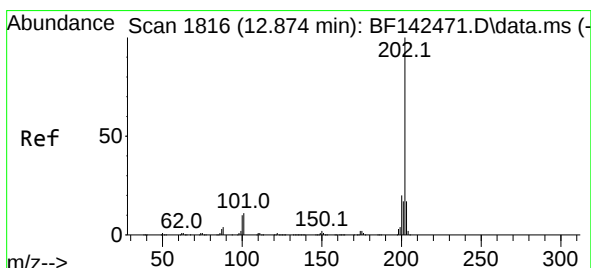
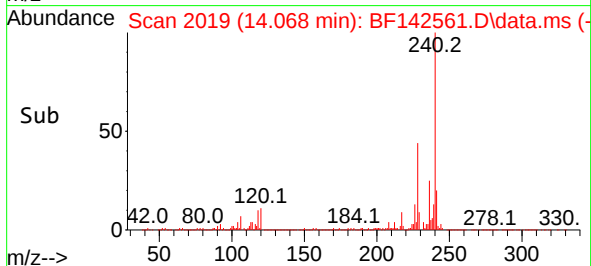
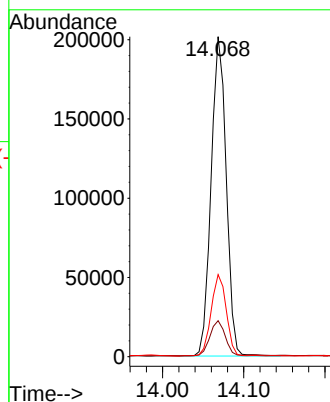
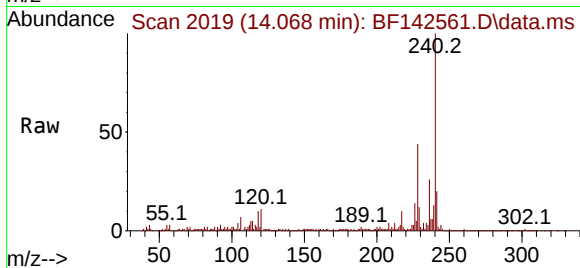
Tgt Ion:240 Resp: 259845

Ion Ratio Lower Upper

240 100

120 11.3 7.5 11.3

236 25.7 19.6 29.4



#78

Pyrene

Concen: 19.086 ng

RT: 12.868 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

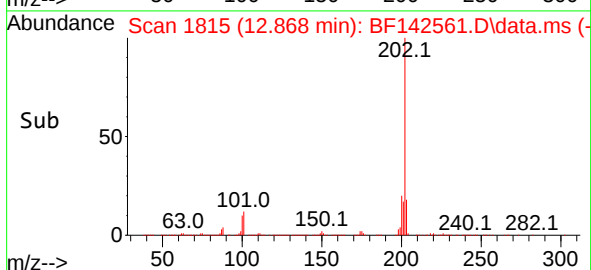
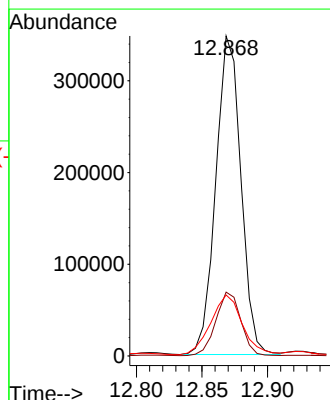
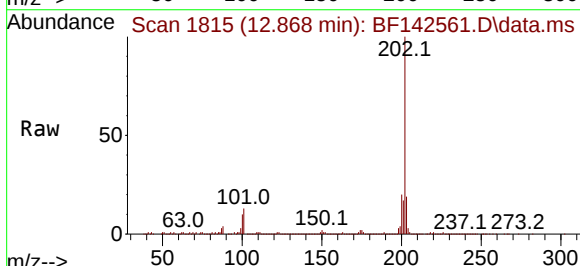
Tgt Ion:202 Resp: 462651

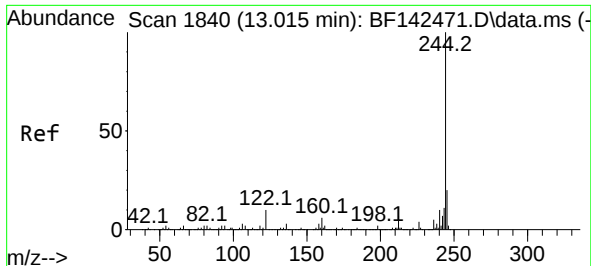
Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

203 19.0 13.9 20.9

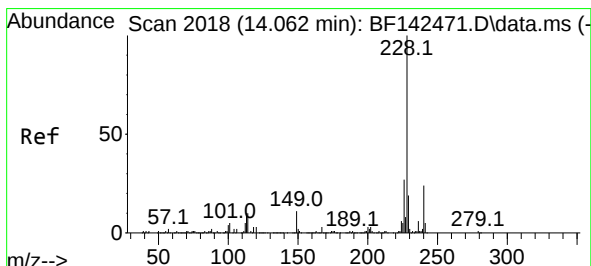
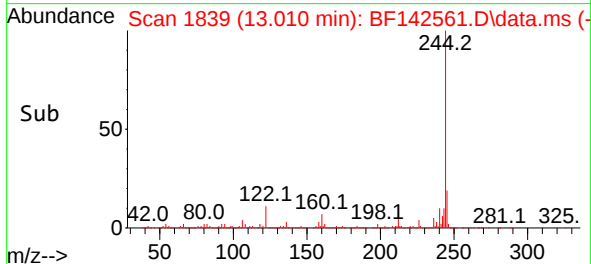
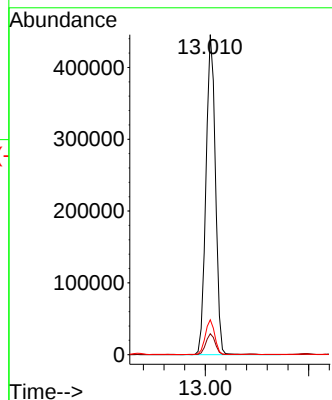
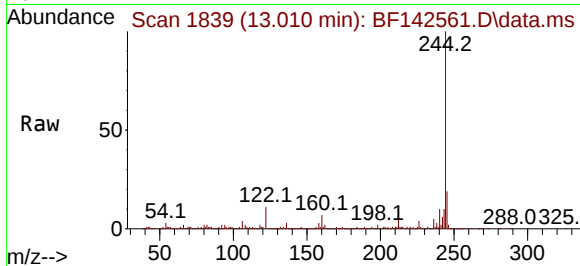




#79
 Terphenyl-d14
 Concen: 29.687 ng
 RT: 13.010 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

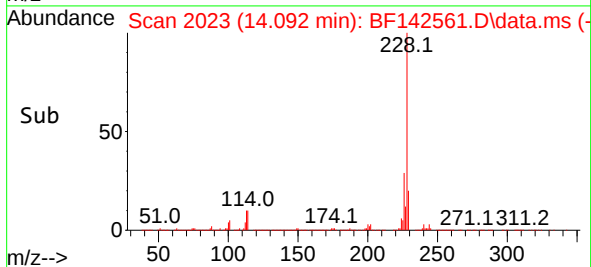
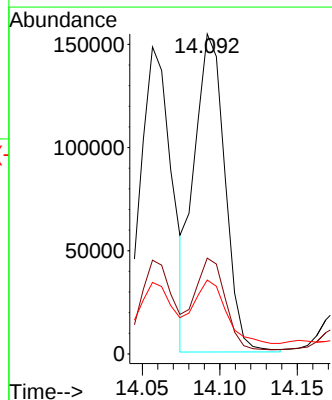
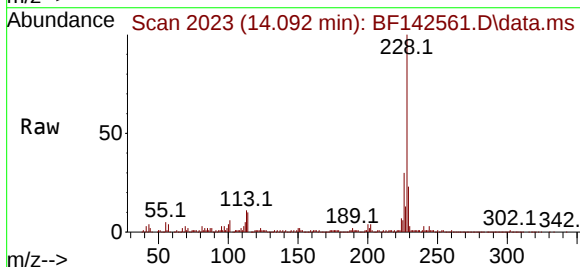
Instrument :
 BNA_F
 ClientSampleId :
 COMP-2

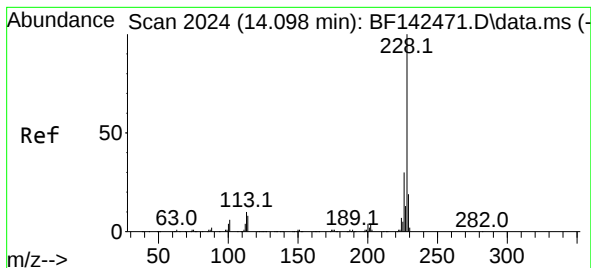
Tgt Ion:244 Resp: 564484
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.3 7.9
 122 10.9 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 12.235 ng
 RT: 14.092 min Scan# 2023
 Delta R.T. 0.029 min
 Lab File: BF142561.D
 Acq: 27 May 2025 14:55

Tgt Ion:228 Resp: 212292
 Ion Ratio Lower Upper
 228 100
 226 30.0 21.2 31.8
 229 23.1 15.5 23.3





#83

Chrysene

Concen: 13.616 ng

RT: 14.092 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

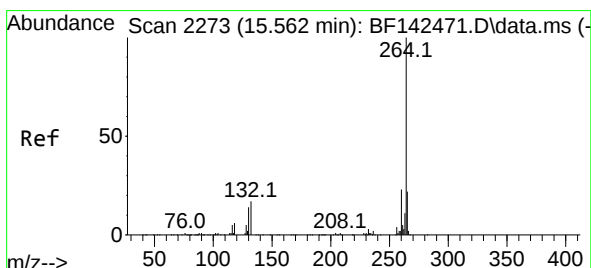
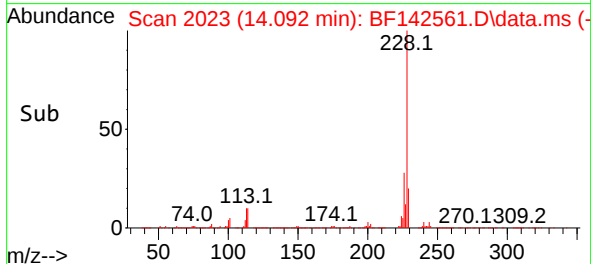
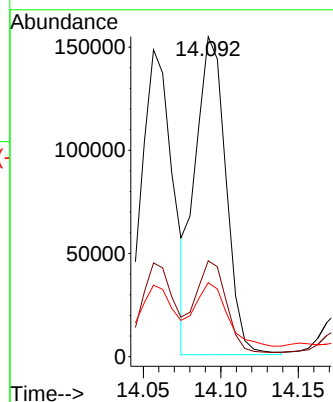
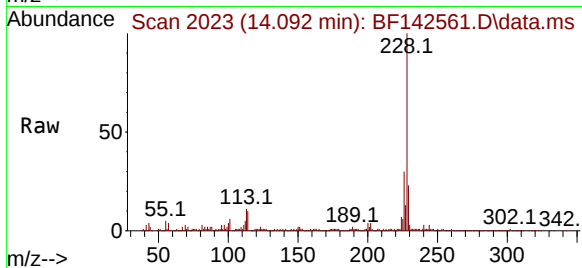
Tgt Ion:228 Resp: 212292

Ion Ratio Lower Upper

228 100

226 30.0 23.8 35.6

229 23.1 15.4 23.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.562 min Scan# 2273

Delta R.T. -0.006 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

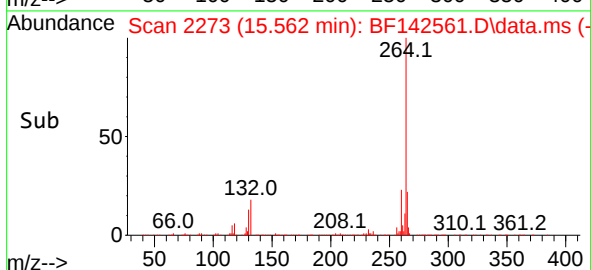
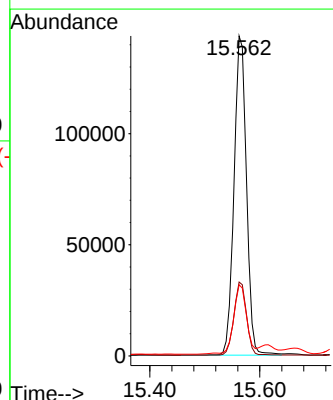
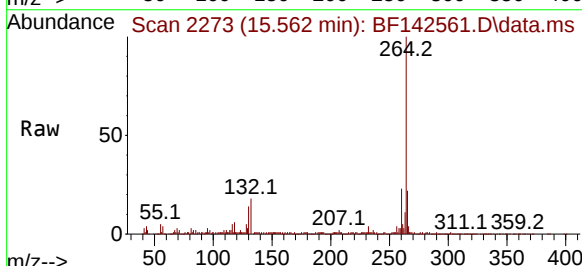
Tgt Ion:264 Resp: 226255

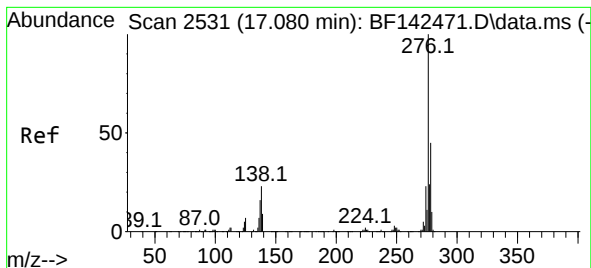
Ion Ratio Lower Upper

264 100

260 23.1 18.6 28.0

265 22.2 17.7 26.5





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.661 ng

RT: 17.068 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

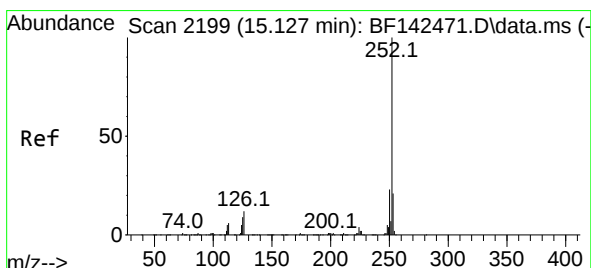
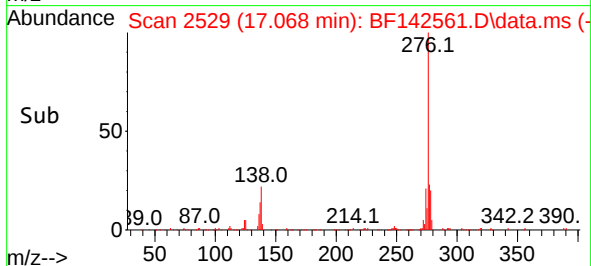
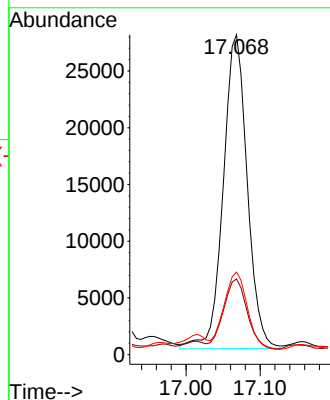
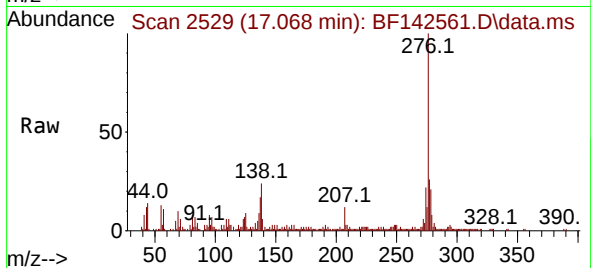
Tgt Ion:276 Resp: 62193

Ion Ratio Lower Upper

276 100

138 21.8 19.9 29.9

277 23.8 20.2 30.2



#88

Benzo(b)fluoranthene

Concen: 20.454 ng

RT: 15.127 min Scan# 2199

Delta R.T. 0.000 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

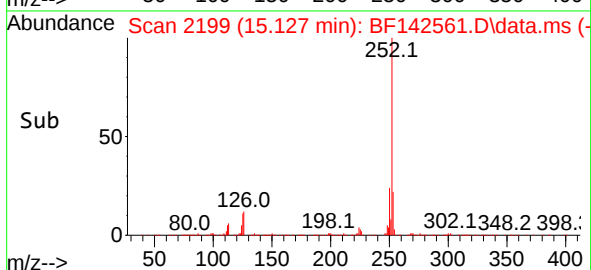
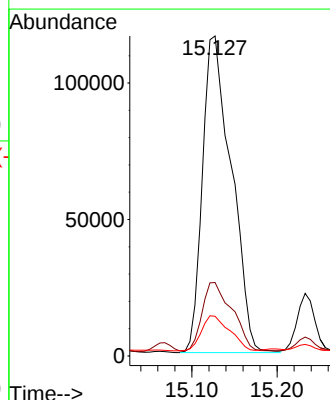
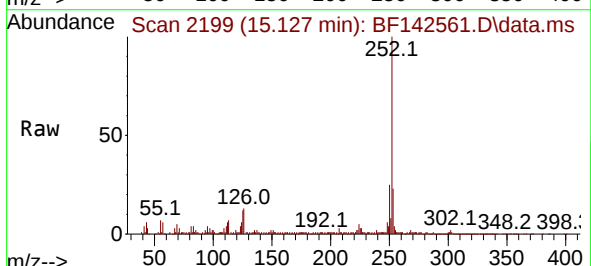
Tgt Ion:252 Resp: 273894

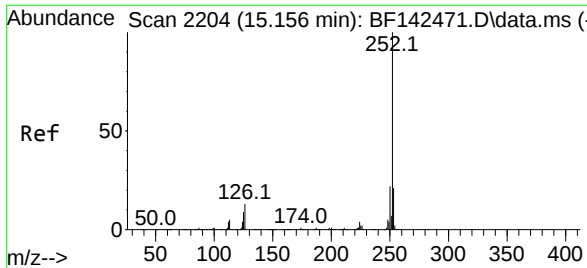
Ion Ratio Lower Upper

252 100

253 23.0 17.0 25.4

125 12.4 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 21.838 ng

RT: 15.127 min Scan# 2119

Delta R.T. -0.035 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2

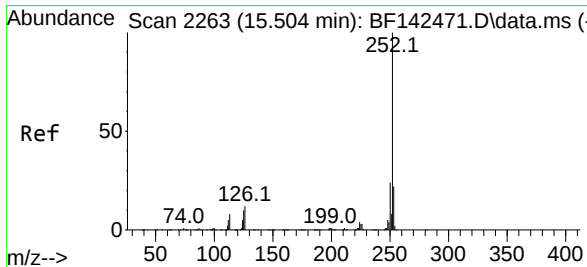
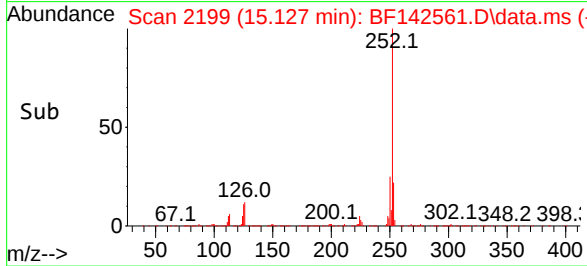
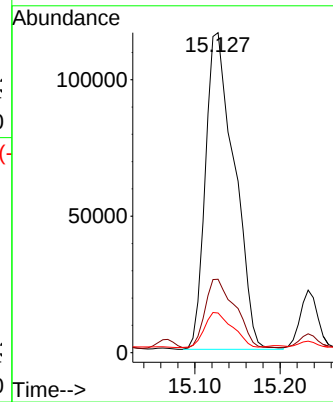
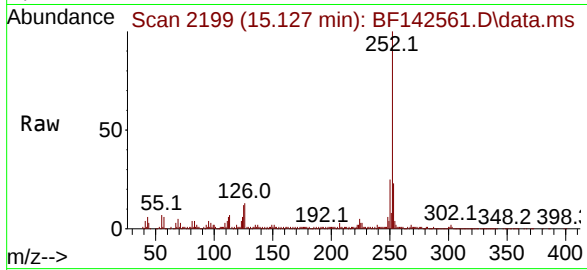
Tgt Ion:252 Resp: 273894

Ion Ratio Lower Upper

252 100

253 23.0 17.0 25.4

125 12.4 7.3 10.9#



#90

Benzo(a)pyrene

Concen: 11.282 ng

RT: 15.498 min Scan# 2262

Delta R.T. -0.012 min

Lab File: BF142561.D

Acq: 27 May 2025 14:55

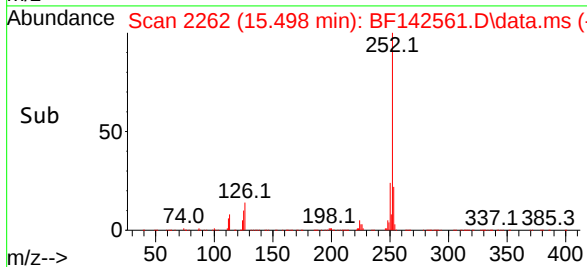
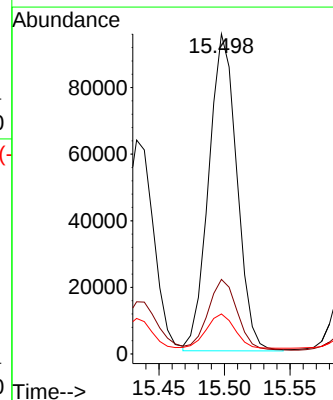
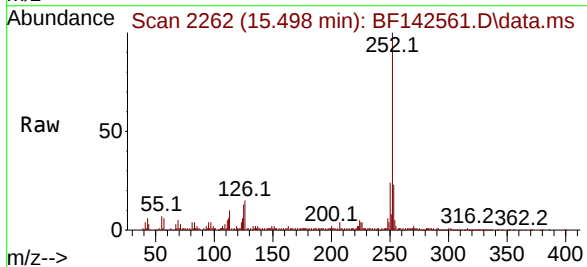
Tgt Ion:252 Resp: 142398

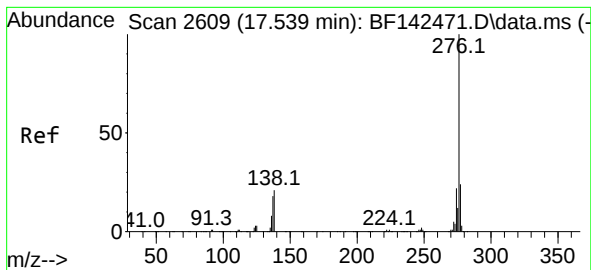
Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

125 12.5 7.9 11.9#





#92

Benzo(g,h,i)perylene

Concen: 4.451 ng

RT: 17.527 min Scan# 20

Delta R.T. -0.029 min

Lab File: BF142561.D

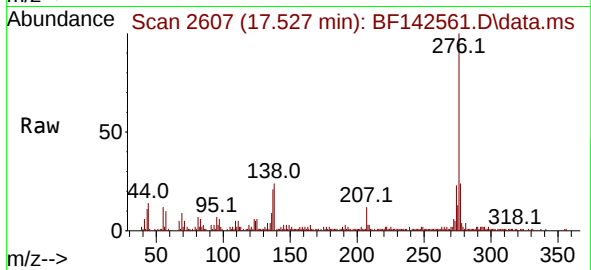
Acq: 27 May 2025 14:55

Instrument :

BNA_F

ClientSampleId :

COMP-2



Tgt Ion:276 Resp: 61337

Ion Ratio Lower Upper

276 100

277 23.7 19.2 28.8

138 23.7 16.8 25.2

