

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111924\
 Data File : BF140479.D
 Acq On : 19 Nov 2024 17:43
 Operator : RC/JU
 Sample : P4889-05
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 #72-11930

Quant Time: Nov 20 00:10:10 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 13 14:40:06 2024
 Response via : Initial Calibration

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

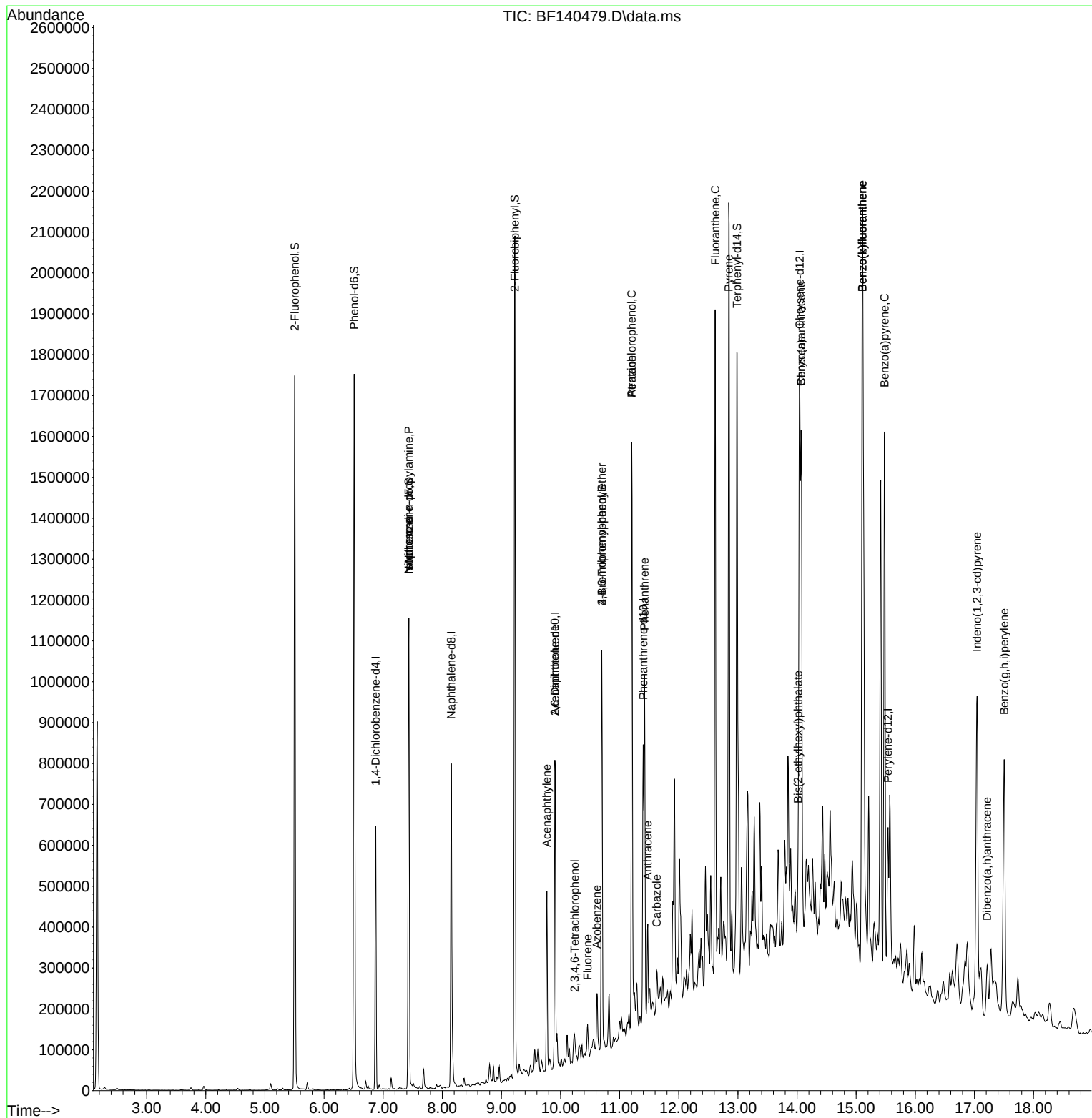
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	140940	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	501439	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	235765	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	354475	20.000	ng	0.00
76) Chrysene-d12	14.045	240	219625	20.000	ng	0.00
86) Perylene-d12	15.539	264	188677	20.000	ng	#-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	656755	79.561	ng	0.01
7) Phenol-d6	6.510	99	842993	75.376	ng	0.00
23) Nitrobenzene-d5	7.434	82	532690	55.350	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	165862	70.745	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	960483	65.490	ng	0.00
79) Terphenyl-d14	12.986	244	740419	58.519	ng	0.00
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.434	70	72509	10.735	ng	# 76
25) Isophorone	7.434	82	524010	30.722	ng	# 67
49) Acenaphthylene	9.769	152	258734	13.088	ng	100
51) 2,6-Dinitrotoluene	9.904	165	31966	9.124	ng	# 23
58) Fluorene	10.457	166	41874	2.804	ng	# 93
59) 2,3,4,6-Tetrachlorophenol	10.239	232	9462	2.562	ng	# 78
63) Azobenzene	10.616	77	32602	2.100	ng	# 1
67) 4-Bromophenyl-phenylether	10.698	248	11329	3.197	ng	# 1
69) Atrazine	11.204	200	45427	14.660	ng	# 38
70) Pentachlorophenol	11.204	266	252556	117.601	ng	100
71) Phenanthrene	11.422	178	430989	25.883	ng	99
72) Anthracene	11.475	178	144411	8.849	ng	99
73) Carbazole	11.628	167	37561	2.331	ng	# 92
75) Fluoranthene	12.616	202	914119	48.931	ng	100
78) Pyrene	12.845	202	1145125	60.956	ng	99
81) Benzo(a)anthracene	14.069	228	757646	52.489	ng	94
83) Chrysene	14.069	228	757646	57.528	ng	98
84) Bis(2-ethylhexyl)phtha...	14.016	149	21435	2.225	ng	# 91
87) Indeno(1,2,3-cd)pyrene	17.045	276	602580	51.701	ng	96
88) Benzo(b)fluoranthene	15.104	252	1705899	138.215	ng	98
89) Benzo(k)fluoranthene	15.104	252	1705899	169.189	ng	97
90) Benzo(a)pyrene	15.480	252	772420	80.589	ng	99
91) Dibenzo(a,h)anthracene	17.215	278	92589	9.611	ng	95
92) Benzo(g,h,i)perylene	17.504	276	583543	59.248	ng	99

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

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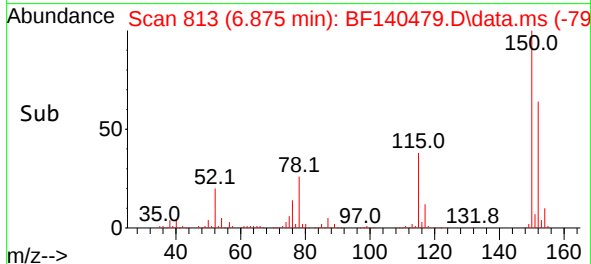
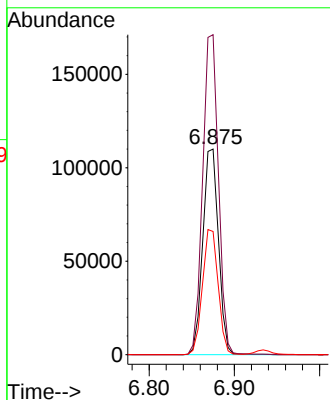
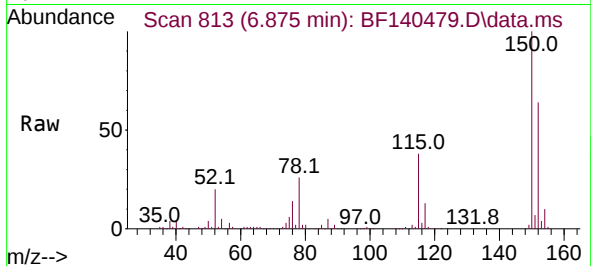




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 813
Delta R.T. -0.006 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

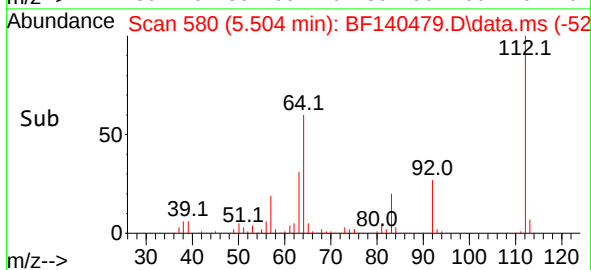
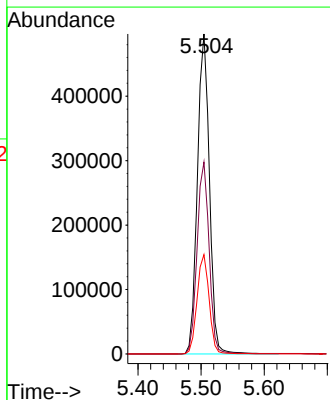
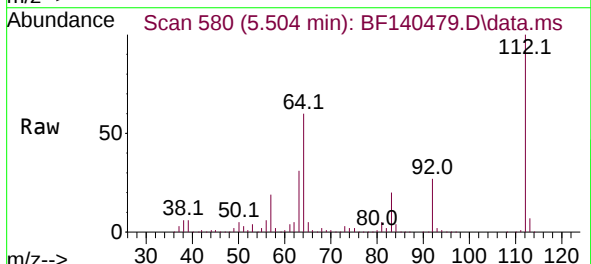
Instrument :
BNA_F
ClientSampleId :
#72-11930

Tgt Ion:152 Resp: 140940
Ion Ratio Lower Upper
152 100
150 155.6 127.4 191.0
115 59.9 47.4 71.2



#5
2-Fluorophenol
Concen: 79.561 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

Tgt Ion:112 Resp: 656755
Ion Ratio Lower Upper
112 100
64 59.9 49.2 73.8
63 31.0 25.6 38.4

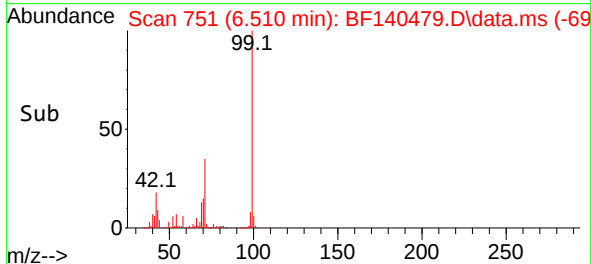
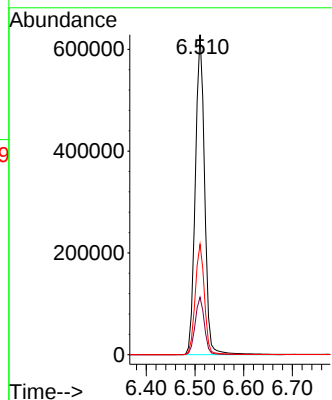
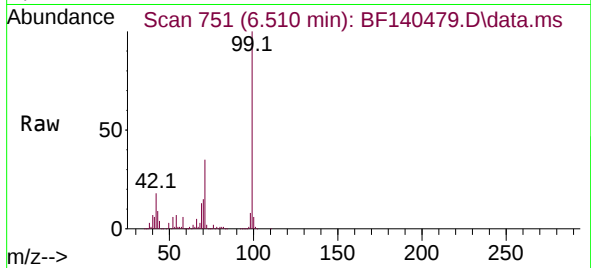




#7
Phenol-d6
Concen: 75.376 ng
RT: 6.510 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

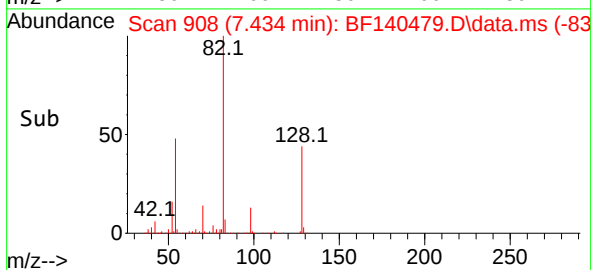
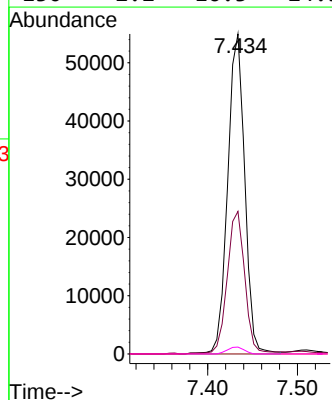
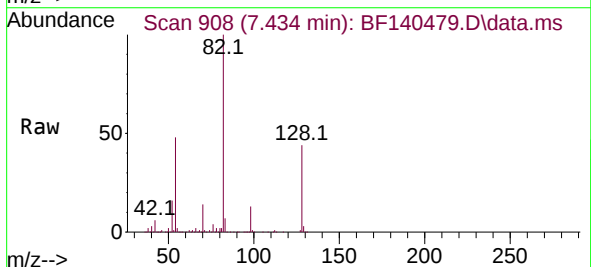
Instrument :
BNA_F
ClientSampleId :
#72-11930

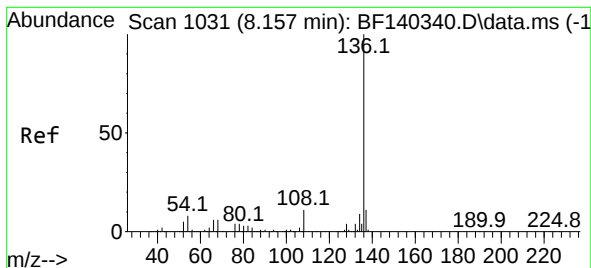
Tgt Ion: 99 Resp: 842993
Ion Ratio Lower Upper
99 100
42 18.0 15.1 22.7
71 34.5 27.9 41.9



#19
n-Nitroso-di-n-propylamine
Concen: 10.735 ng
RT: 7.434 min Scan# 908
Delta R.T. 0.141 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

Tgt Ion: 70 Resp: 72509
Ion Ratio Lower Upper
70 100
42 44.6 46.8 70.2#
101 0.0 7.5 11.3#
130 2.2 16.3 24.5#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.151 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Instrument :

BNA_F

ClientSampleId :

#72-11930

Tgt Ion:136 Resp: 501439

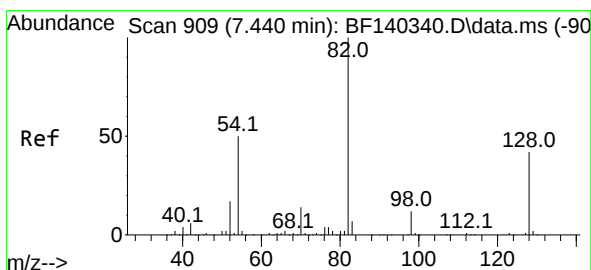
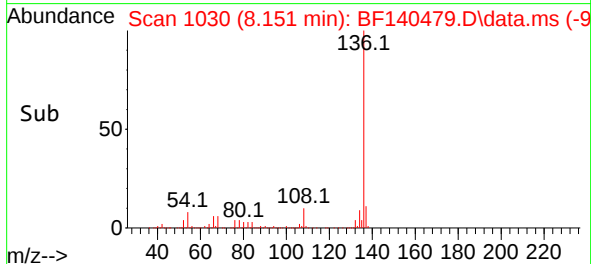
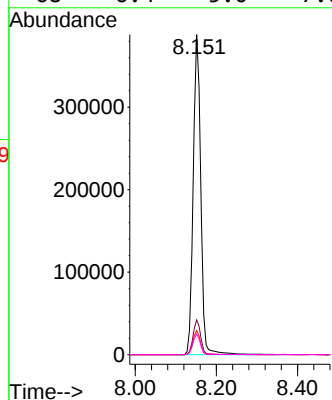
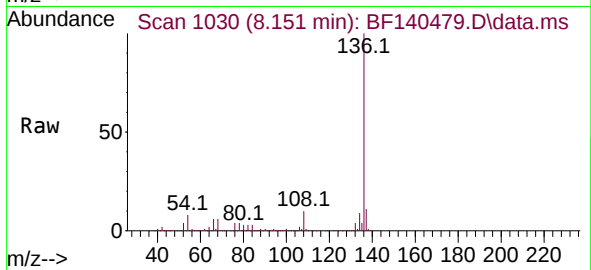
Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

54 7.6 6.5 9.7

68 6.4 5.0 7.6



#23

Nitrobenzene-d5

Concen: 55.350 ng

RT: 7.434 min Scan# 908

Delta R.T. -0.006 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

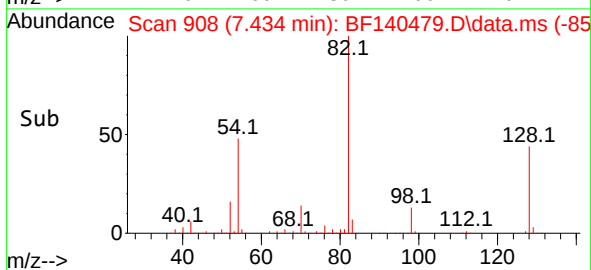
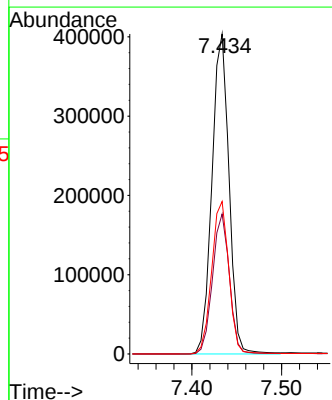
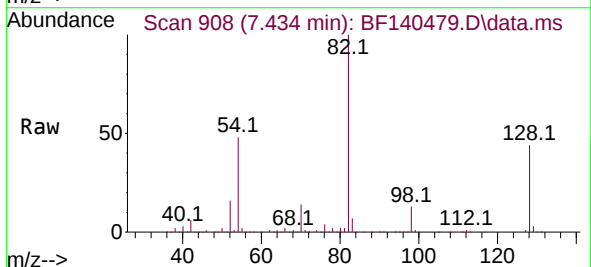
Tgt Ion: 82 Resp: 532690

Ion Ratio Lower Upper

82 100

128 43.7 33.3 49.9

54 47.6 39.8 59.8

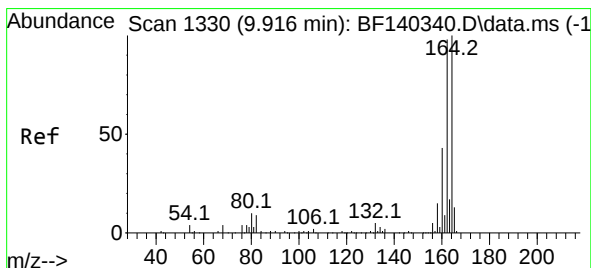
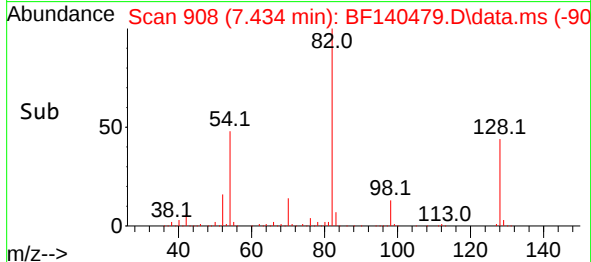
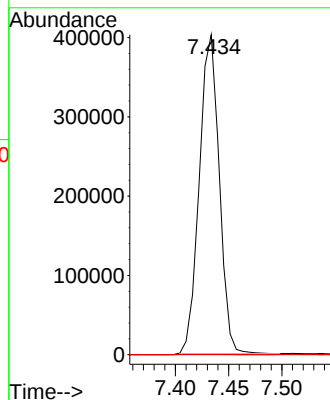
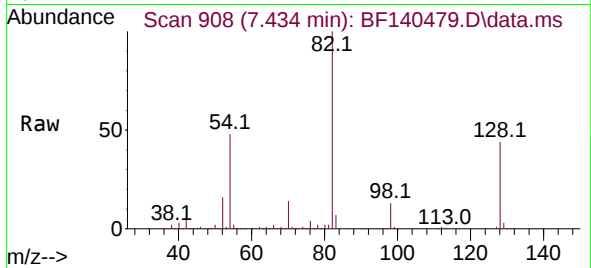




#25
Isophorone
Concen: 30.722 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.265 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

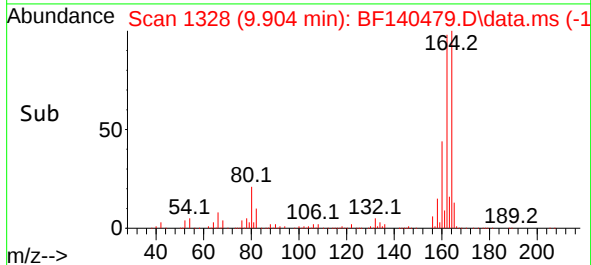
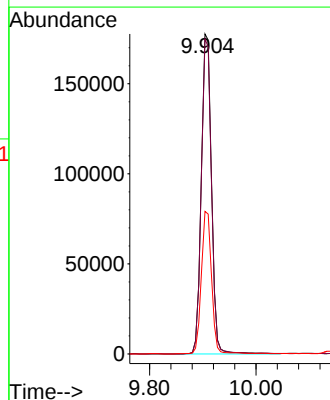
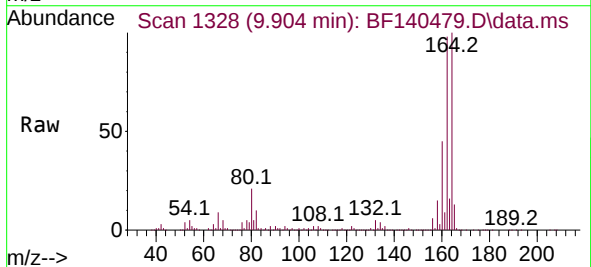
Instrument :
BNA_F
ClientSampleId :
#72-11930

Tgt Ion: 82 Resp: 524010
Ion Ratio Lower Upper
82 100
95 0.1 5.9 8.9#
138 0.0 13.4 20.2#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

Tgt Ion: 164 Resp: 235765
Ion Ratio Lower Upper
164 100
162 98.4 79.8 119.8
160 44.5 35.4 53.0





#42

2,4,6-Tribromophenol

Concen: 70.745 ng

RT: 10.698 min Scan# 1463

Delta R.T. -0.006 min

Lab File: BF140479.D

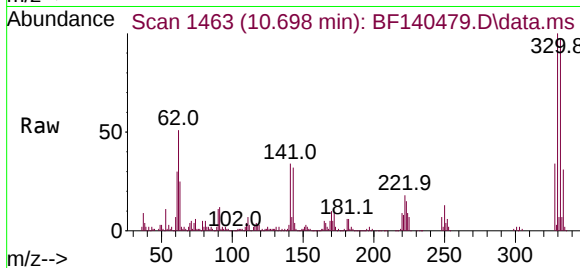
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Instrument :

BNA_F

ClientSampleId :

#72-11930



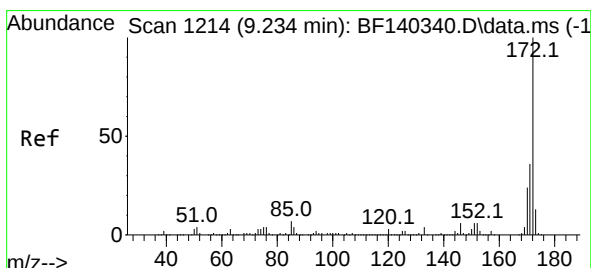
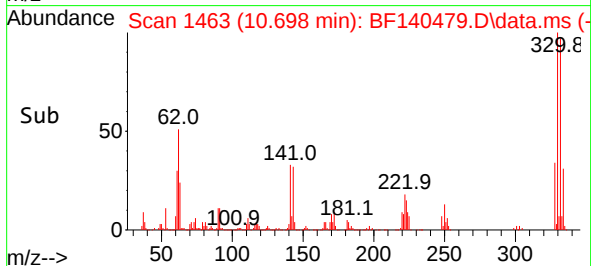
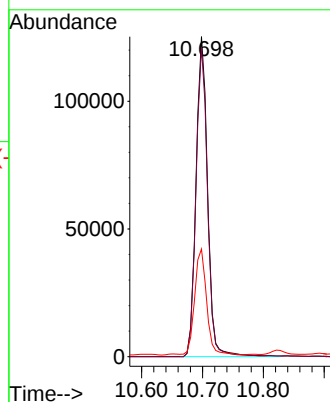
Tgt Ion:330 Resp: 165862

Ion Ratio Lower Upper

330 100

332 95.8 75.9 113.9

141 33.4 26.9 40.3



#45

2-Fluorobiphenyl

Concen: 65.490 ng

RT: 9.228 min Scan# 1213

Delta R.T. -0.006 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

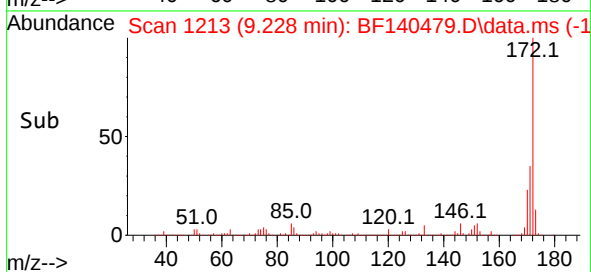
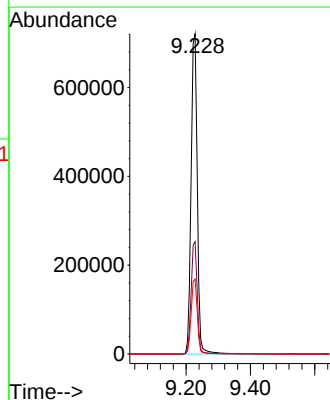
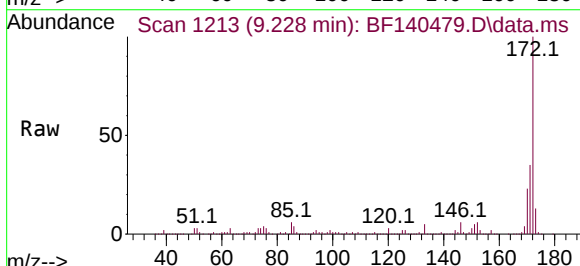
Tgt Ion:172 Resp: 960483

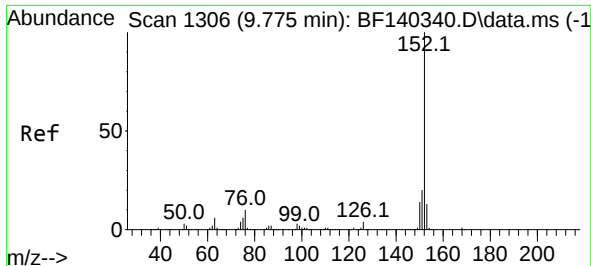
Ion Ratio Lower Upper

172 100

171 35.1 28.5 42.7

170 23.4 19.1 28.7





#49

Acenaphthylene

Concen: 13.088 ng

RT: 9.769 min Scan# 1

Delta R.T. -0.006 min

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Acq: 19 Nov 2024 17:43

Instrument :

BNA_F

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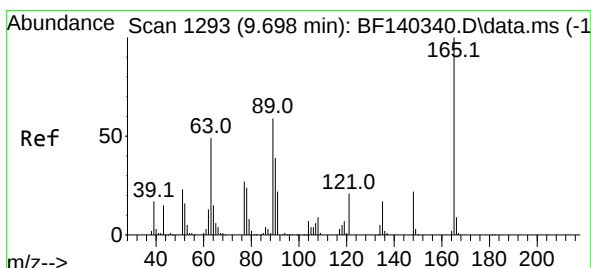
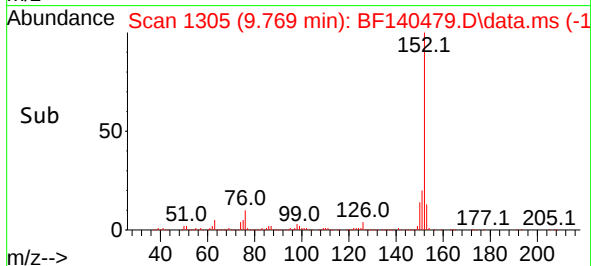
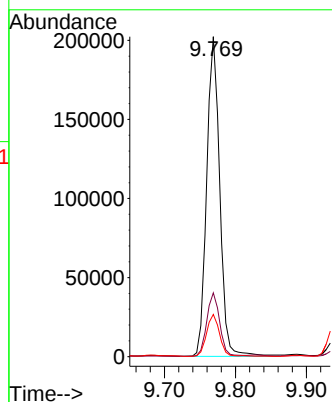
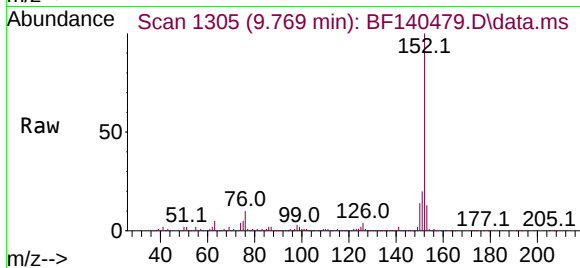
Tgt Ion:152 Resp: 258734

Ion Ratio Lower Upper

152 100

151 20.0 16.1 24.1

153 13.2 10.7 16.1



#51

2,6-Dinitrotoluene

Concen: 9.124 ng

RT: 9.904 min Scan# 1328

Delta R.T. 0.206 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

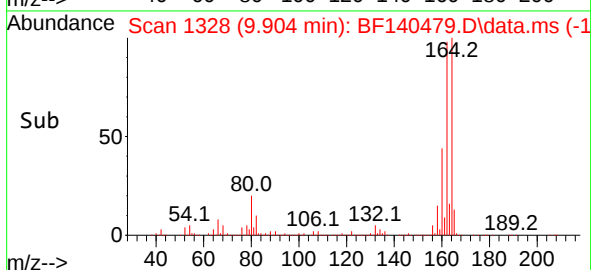
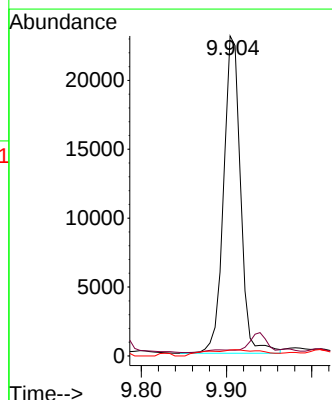
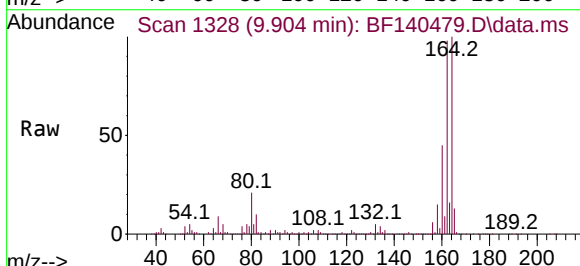
Tgt Ion:165 Resp: 31966

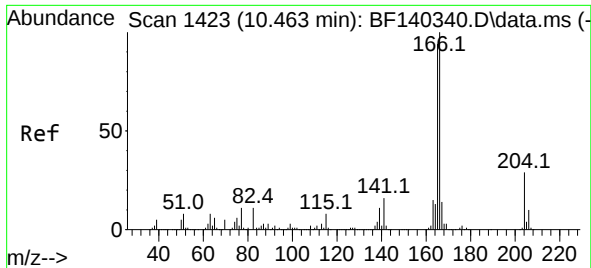
Ion Ratio Lower Upper

165 100

63 1.9 47.6 71.4#

89 1.9 48.1 72.1#





#58

Fluorene

Concen: 2.804 ng

RT: 10.457 min Scan# 1423

Delta R.T. -0.006 min

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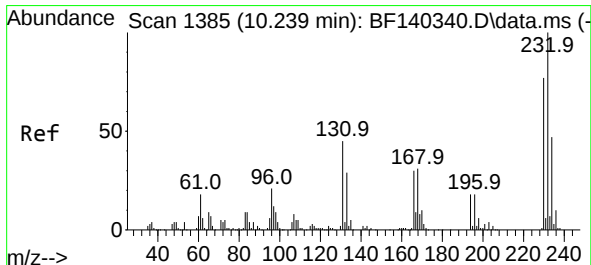
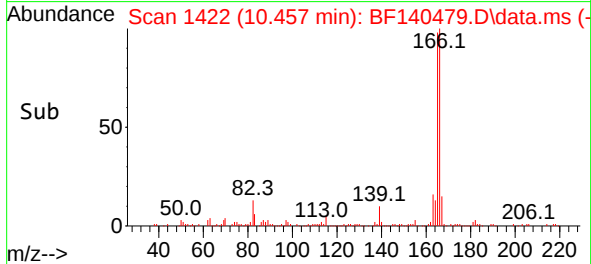
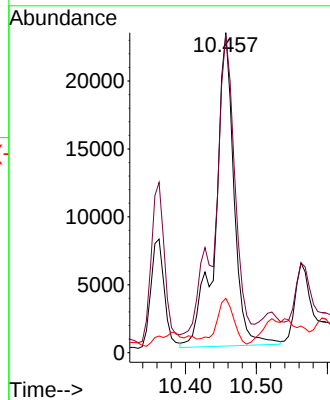
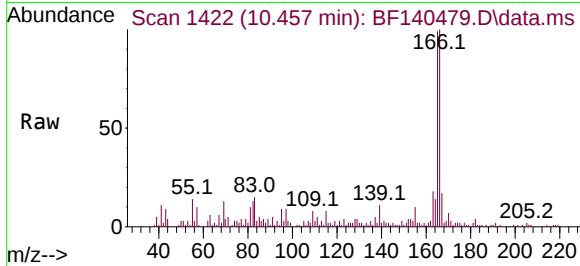
Tgt Ion:166 Resp: 41874

Ion Ratio Lower Upper

166 100

165 99.3 73.9 110.9

167 17.0 10.9 16.3#



#59

2,3,4,6-Tetrachlorophenol

Concen: 2.562 ng

RT: 10.239 min Scan# 1385

Delta R.T. -0.000 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Tgt Ion:232 Resp: 9462

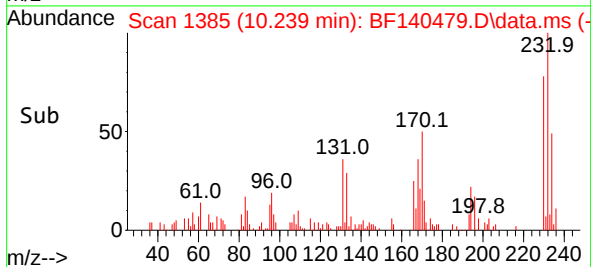
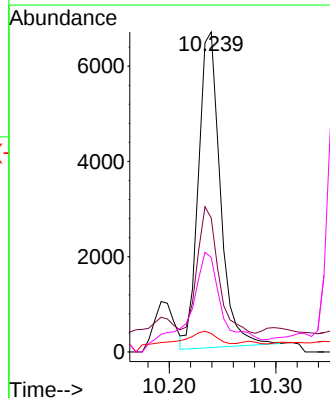
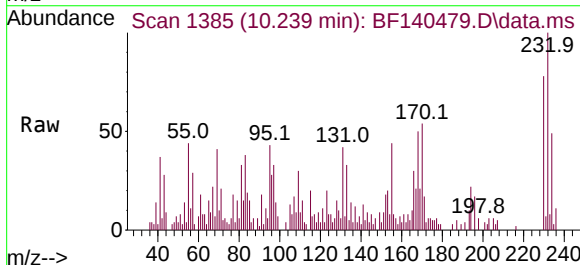
Ion Ratio Lower Upper

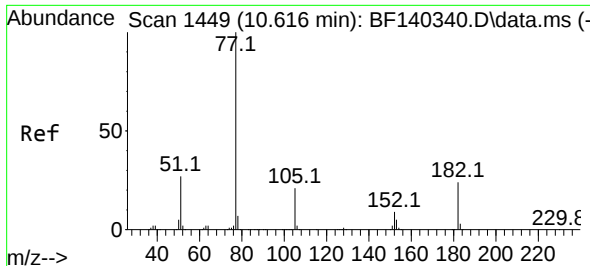
232 100

131 38.2 36.8 55.2

130 14.4 1.9 2.9#

166 50.5 24.2 36.4#

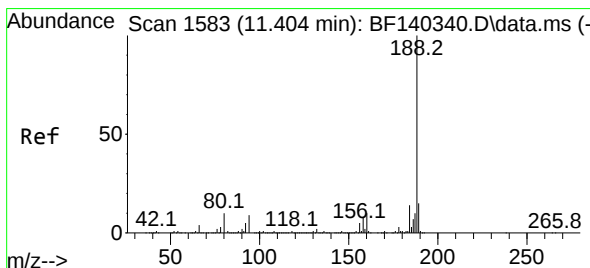
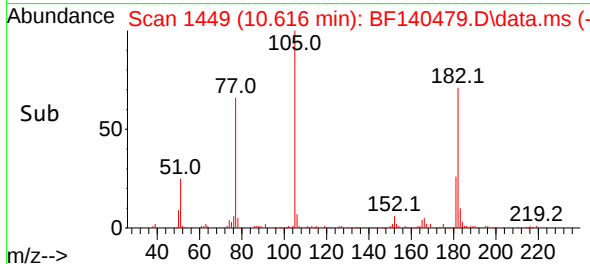
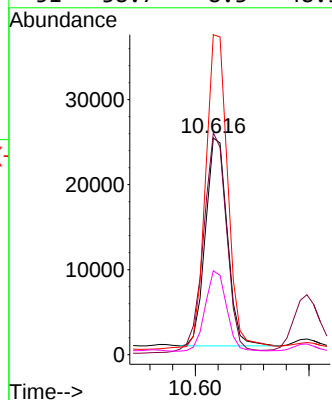
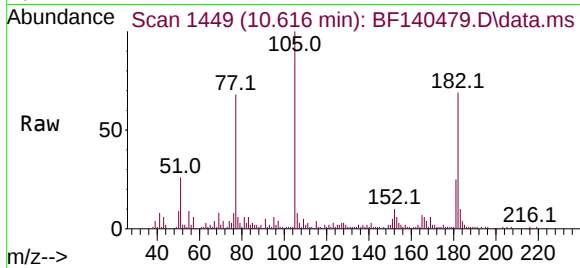




#63
Azobenzene
Concen: 2.100 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

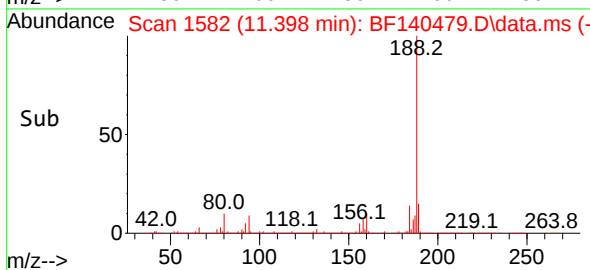
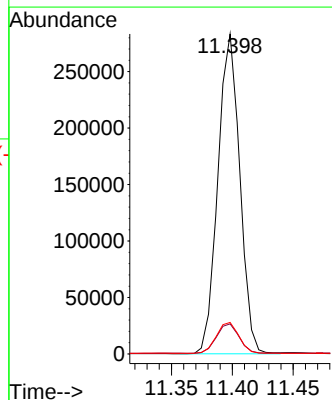
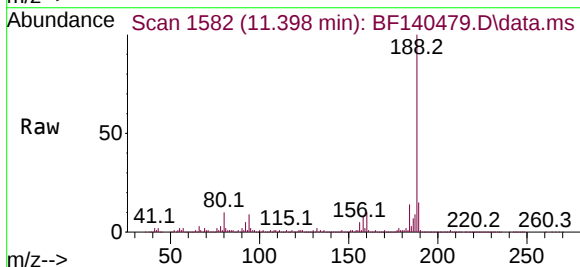
Instrument :
BNA_F
ClientSampleId :
#72-11930

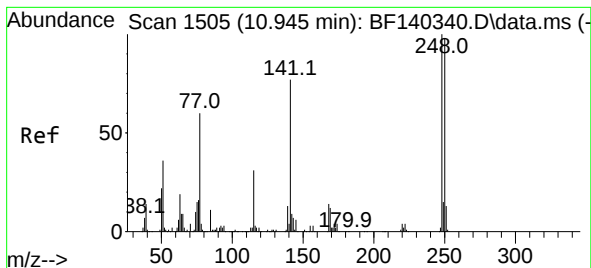
Tgt Ion: 77	Resp: 32602
Ion Ratio	Lower Upper
77 100	
182 102.4	4.6 44.6#
105 147.7	0.9 40.9#
51 38.7	8.3 48.3



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

Tgt Ion:188	Resp: 354475
Ion Ratio	Lower Upper
188 100	
94 9.4	7.6 11.4
80 9.9	8.0 12.0

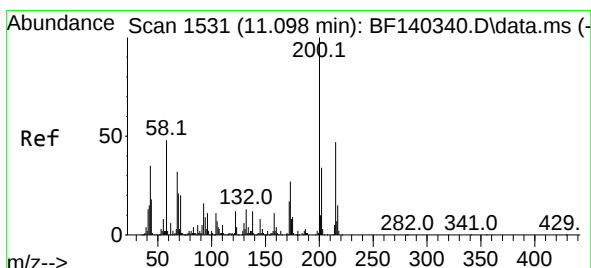
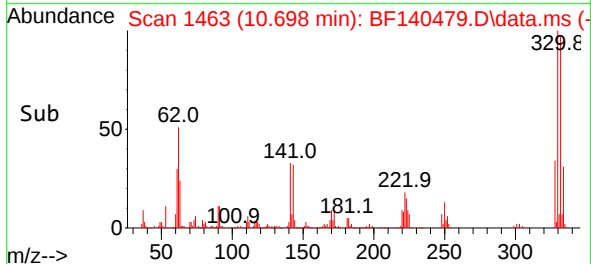
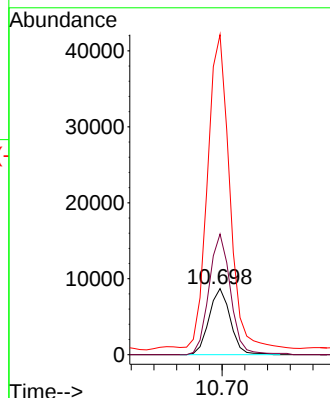
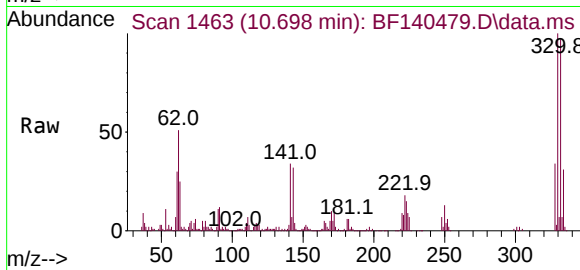




#67
4-Bromophenyl-phenylether
Concen: 3.197 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.247 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

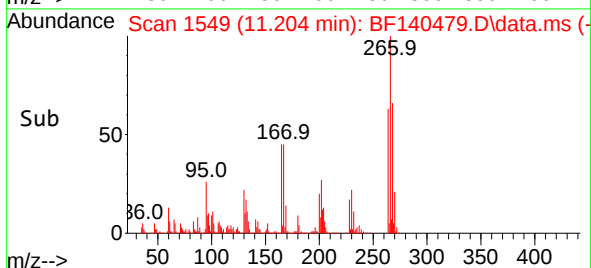
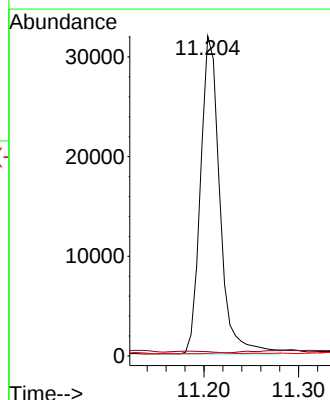
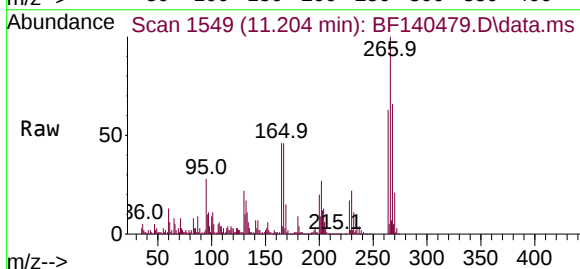
Instrument :
BNA_F
ClientSampleId :
#72-11930

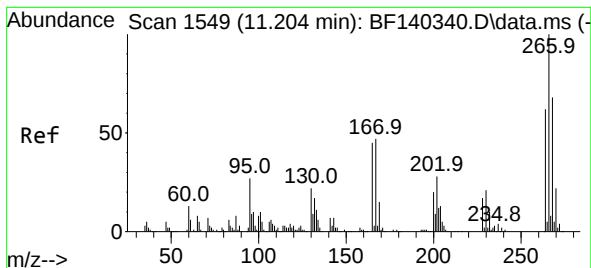
Tgt Ion:248 Resp: 11329
Ion Ratio Lower Upper
248 100
250 182.4 77.9 116.9#
141 483.9 61.8 92.6#



#69
Atrazine
Concen: 14.660 ng
RT: 11.204 min Scan# 1549
Delta R.T. 0.106 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

Tgt Ion:200 Resp: 45427
Ion Ratio Lower Upper
200 100
173 1.3 6.6 46.6#
215 0.8 27.2 67.2#





#70

Pentachlorophenol

Concen: 117.601 ng

RT: 11.204 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Instrument :

BNA_F

ClientSampleId :

#72-11930

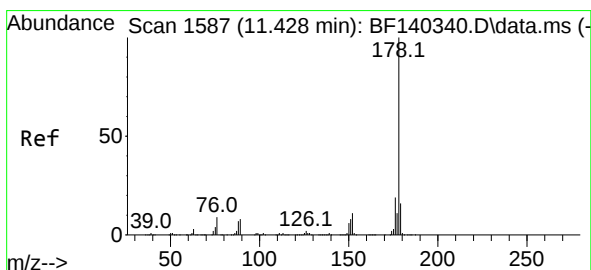
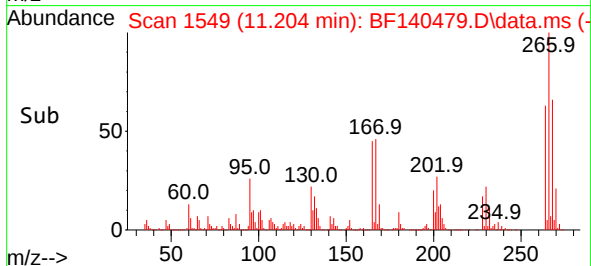
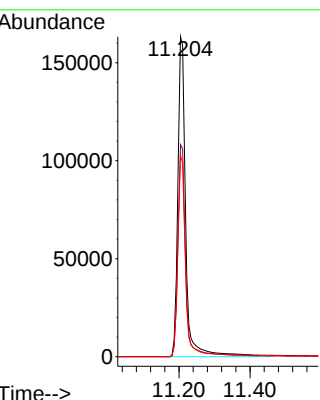
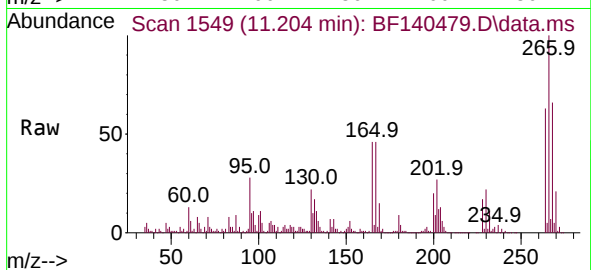
Tgt Ion:266 Resp: 252556

Ion Ratio Lower Upper

266 100

268 66.3 52.9 79.3

264 62.9 50.3 75.5



#71

Phenanthrene

Concen: 25.883 ng

RT: 11.422 min Scan# 1586

Delta R.T. -0.006 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

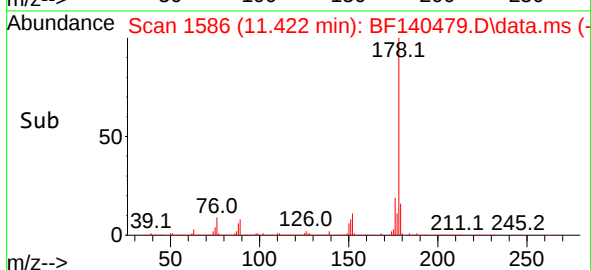
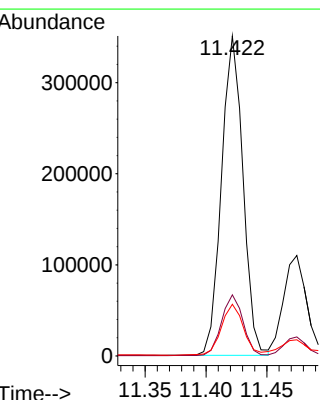
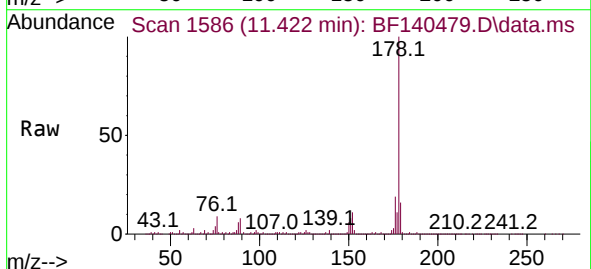
Tgt Ion:178 Resp: 430989

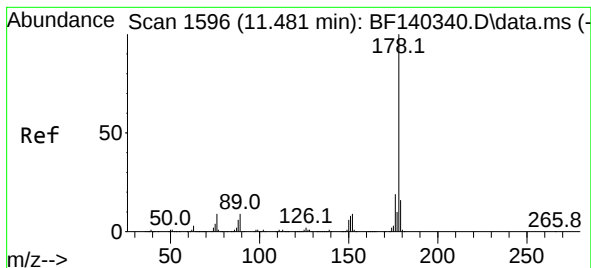
Ion Ratio Lower Upper

178 100

176 19.1 15.5 23.3

179 16.1 12.4 18.6





#72

Anthracene

Concen: 8.849 ng

RT: 11.475 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Instrument :

BNA_F

ClientSampleId :

#72-11930

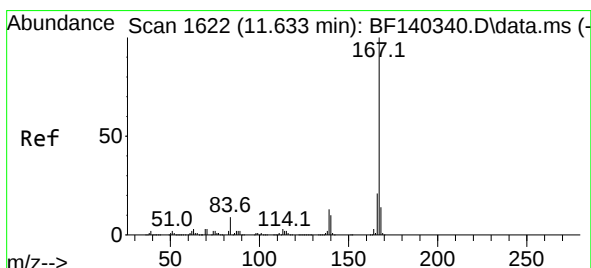
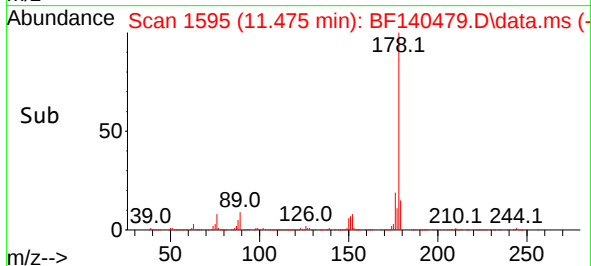
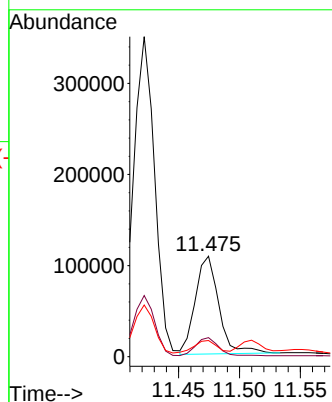
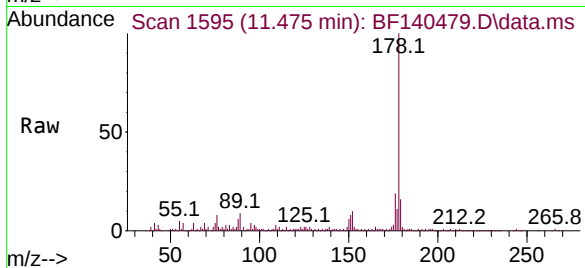
Tgt Ion:178 Resp: 144411

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.0

179 16.1 12.6 18.8



#73

Carbazole

Concen: 2.331 ng

RT: 11.628 min Scan# 1621

Delta R.T. -0.006 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

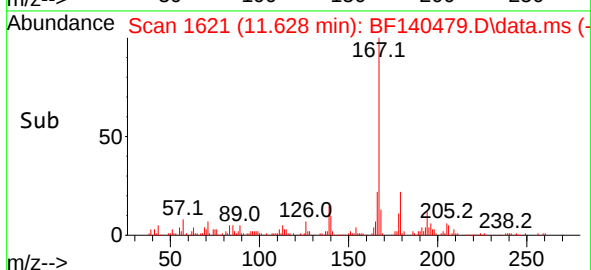
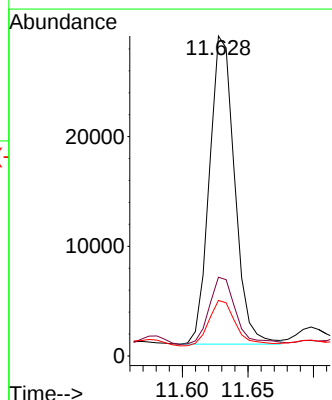
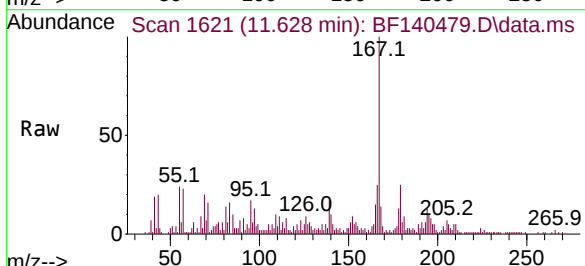
Tgt Ion:167 Resp: 37561

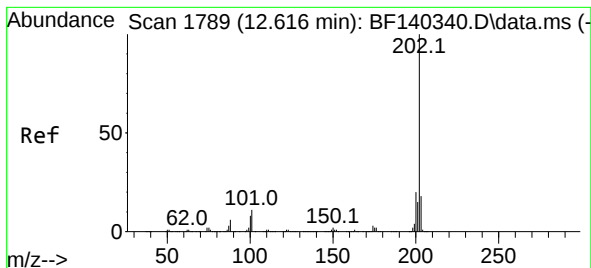
Ion Ratio Lower Upper

167 100

166 24.6 17.2 25.8

139 17.4 10.4 15.6#





#75

Fluoranthene

Concen: 48.931 ng

RT: 12.616 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Instrument :

BNA_F

ClientSampleId :

#72-11930

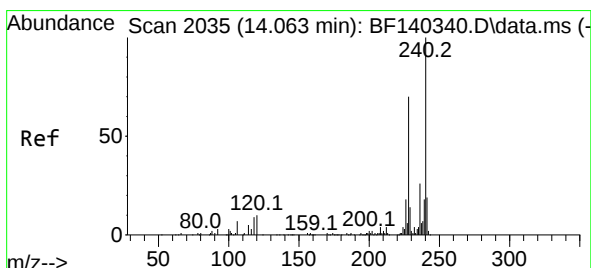
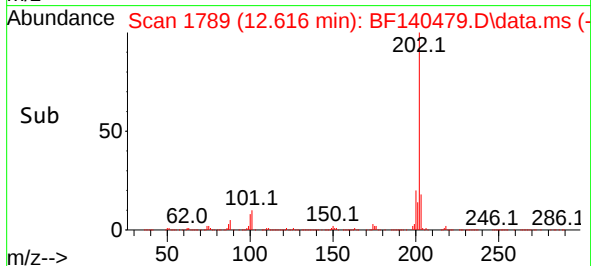
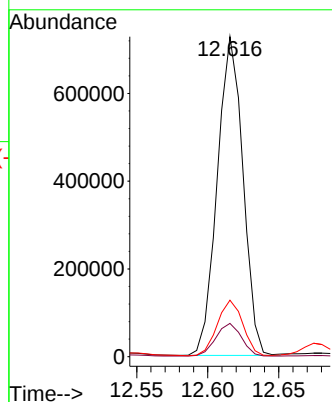
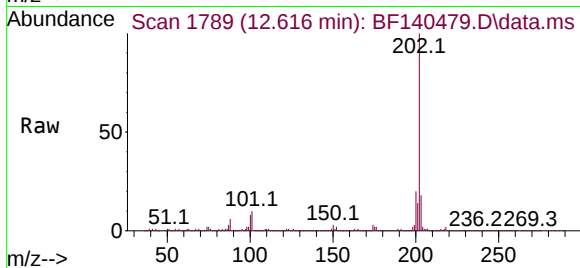
Tgt Ion:202 Resp: 914119

Ion Ratio Lower Upper

202 100

101 10.4 0.0 30.7

203 17.7 0.0 37.7



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.045 min Scan# 2032

Delta R.T. -0.006 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

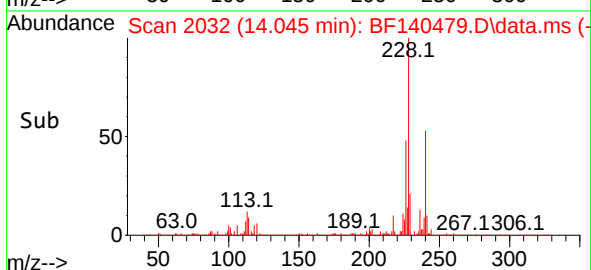
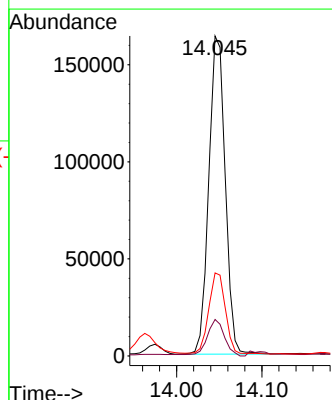
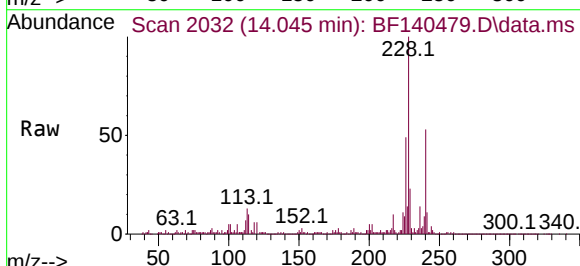
Tgt Ion:240 Resp: 219625

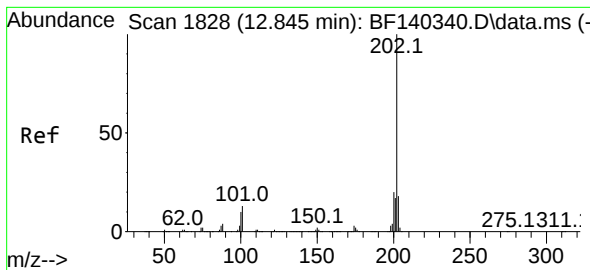
Ion Ratio Lower Upper

240 100

120 11.4 8.8 13.2

236 26.0 20.9 31.3





#78

Pyrene

Concen: 60.956 ng

RT: 12.845 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Instrument :

BNA_F

ClientSampleId :

#72-11930

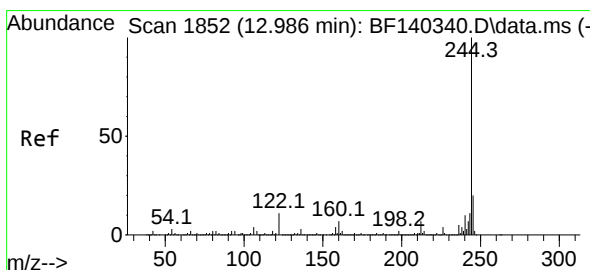
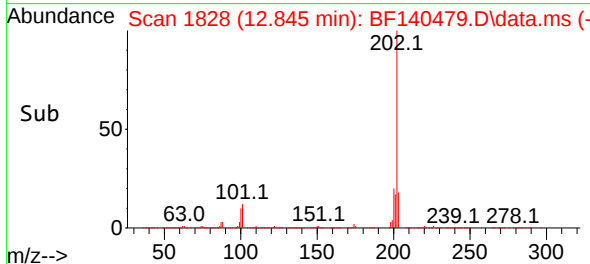
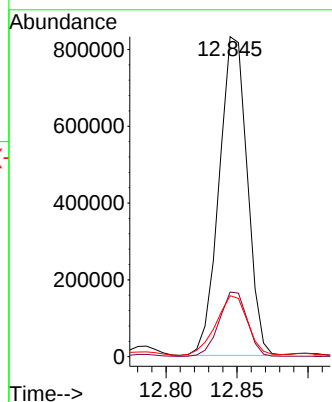
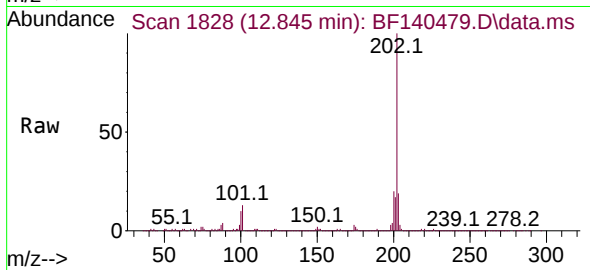
Tgt Ion:202 Resp: 1145125

Ion Ratio Lower Upper

202 100

200 20.2 16.2 24.2

203 19.1 14.2 21.4



#79

Terphenyl-d14

Concen: 58.519 ng

RT: 12.986 min Scan# 1852

Delta R.T. -0.000 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

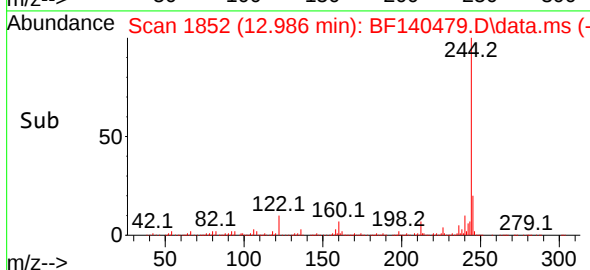
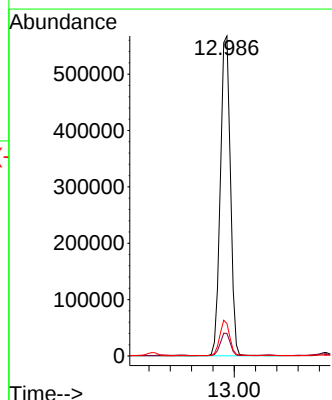
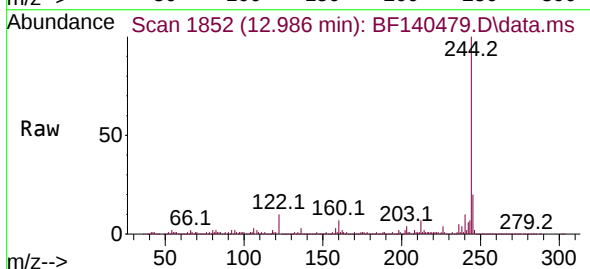
Tgt Ion:244 Resp: 740419

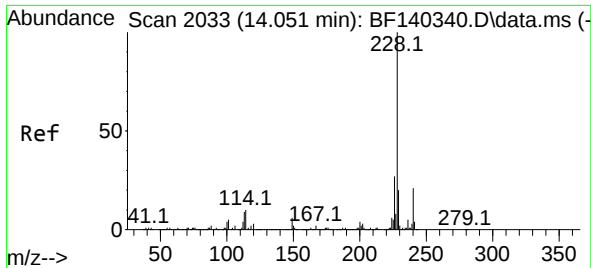
Ion Ratio Lower Upper

244 100

212 7.0 5.8 8.8

122 10.2 8.8 13.2

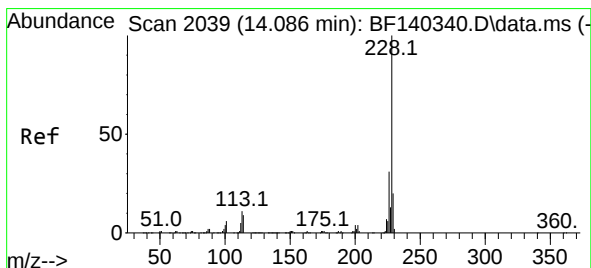
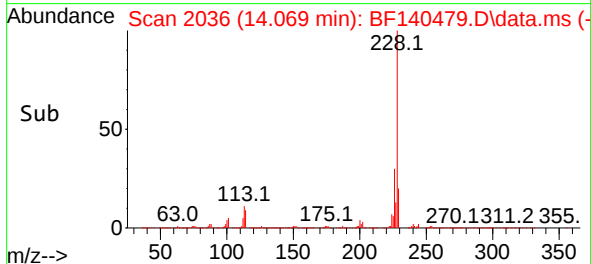
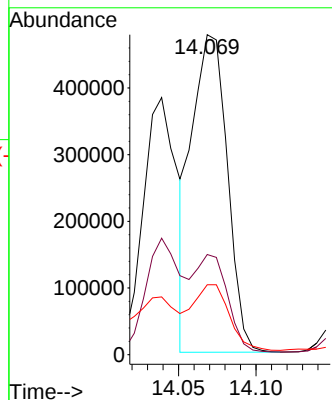
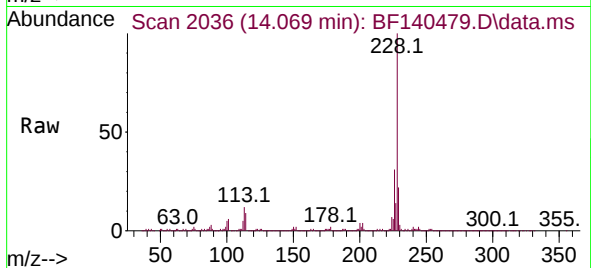




#81
Benzo(a)anthracene
Concen: 52.489 ng
RT: 14.069 min Scan# 2036
Delta R.T. 0.029 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

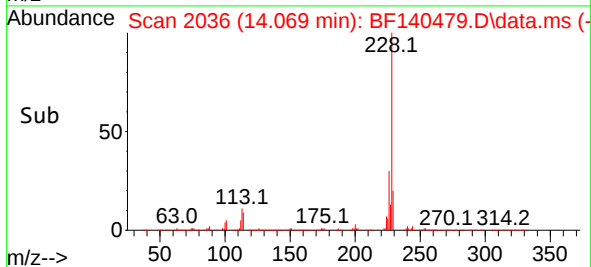
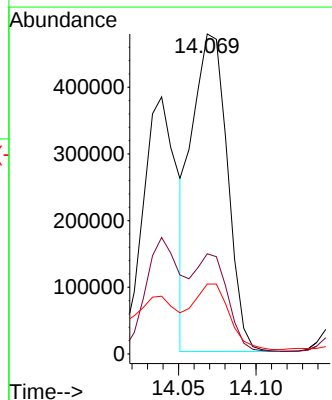
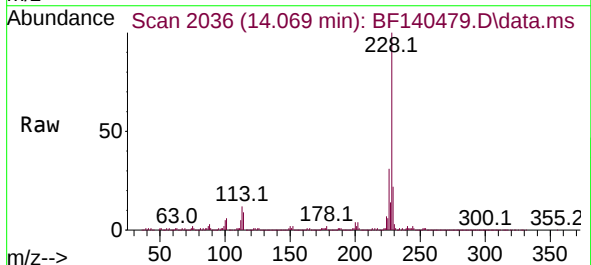
Instrument :
BNA_F
ClientSampleId :
#72-11930

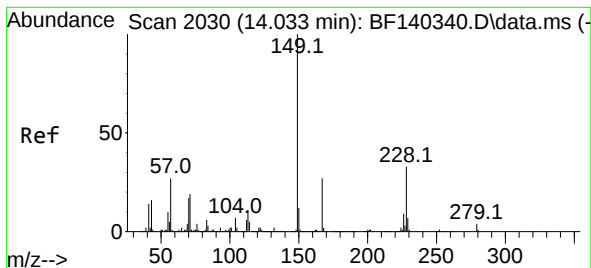
Tgt Ion:228 Resp: 757646
Ion Ratio Lower Upper
228 100
226 31.3 22.2 33.4
229 21.8 15.8 23.6



#83
Chrysene
Concen: 57.528 ng
RT: 14.069 min Scan# 2036
Delta R.T. -0.012 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

Tgt Ion:228 Resp: 757646
Ion Ratio Lower Upper
228 100
226 31.3 24.5 36.7
229 21.8 16.0 24.0

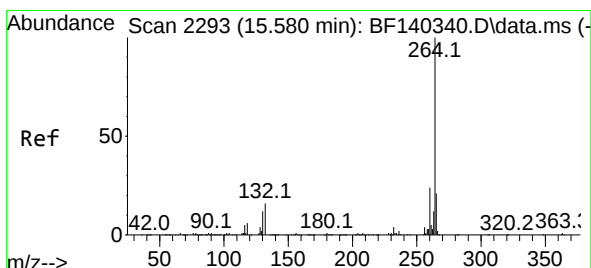
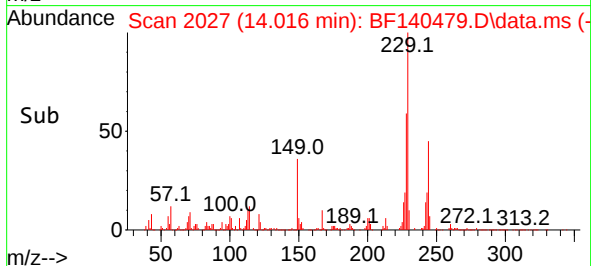
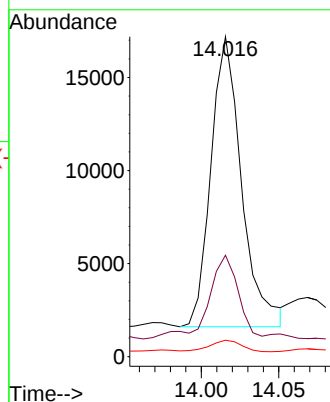
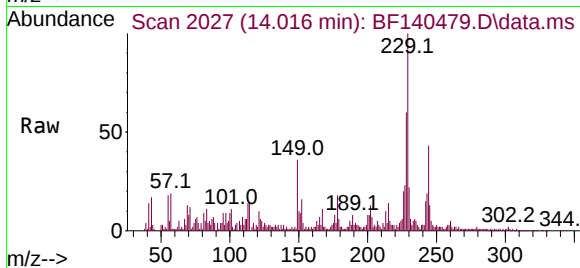




#84
Bis(2-ethylhexyl)phthalate
Concen: 2.225 ng
RT: 14.016 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

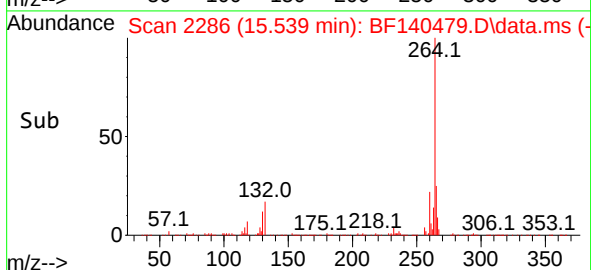
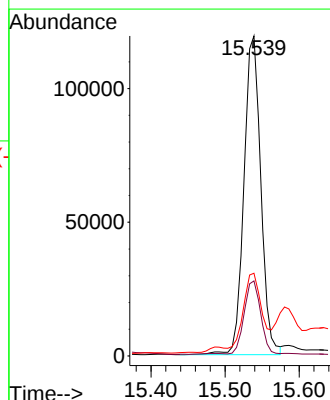
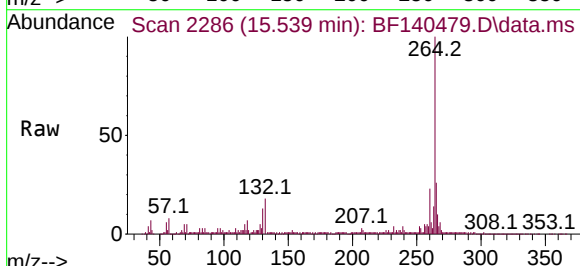
Instrument :
BNA_F
ClientSampleId :
#72-11930

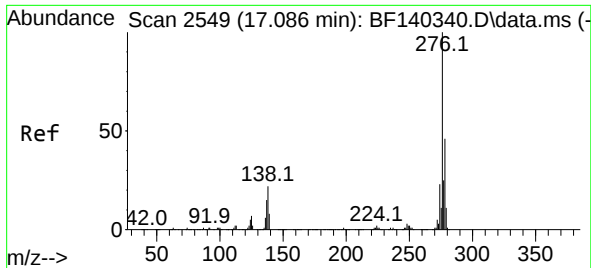
Tgt Ion:149 Resp: 21435
Ion Ratio Lower Upper
149 100
167 31.7 21.4 32.0
279 5.1 3.0 4.6#



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.018 min
Lab File: BF140479.D
Acq: 19 Nov 2024 17:43

Tgt Ion:264 Resp: 188677
Ion Ratio Lower Upper
264 100
260 23.4 19.2 28.8
265 25.9 17.1 25.7#

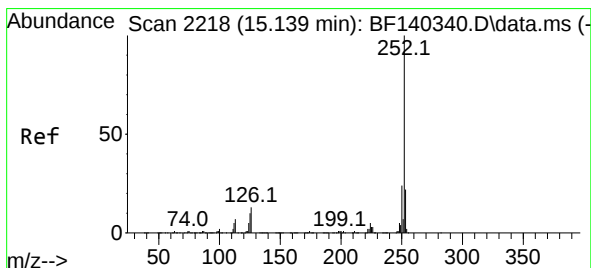
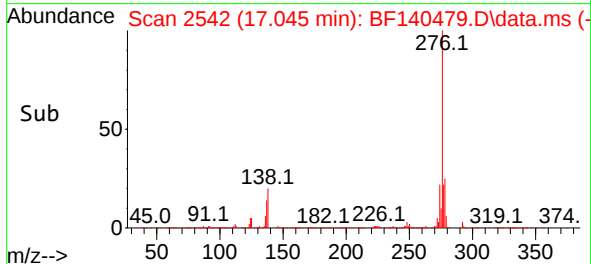
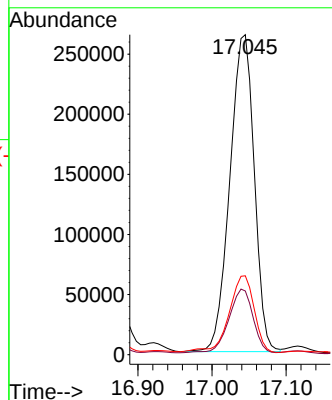
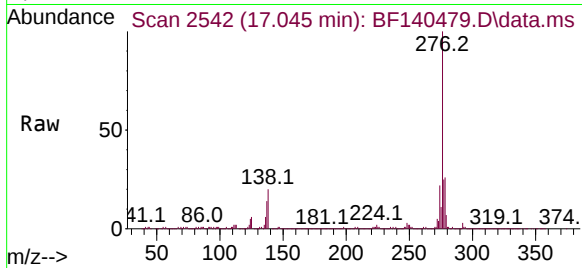




#87
 Indeno(1,2,3-cd)pyrene
 Concen: 51.701 ng
 RT: 17.045 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF140479.D
 Acq: 19 Nov 2024 17:43

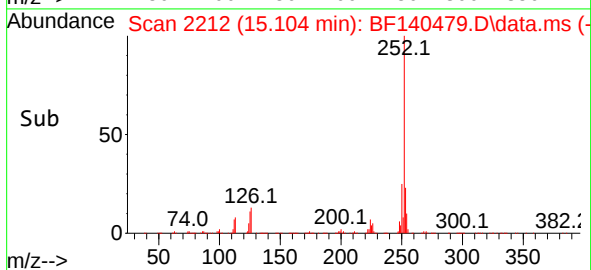
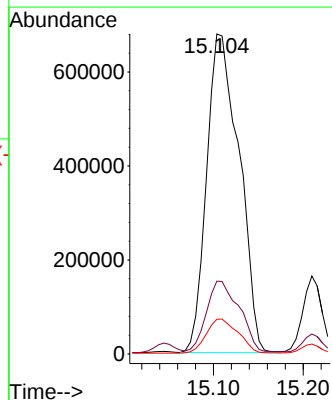
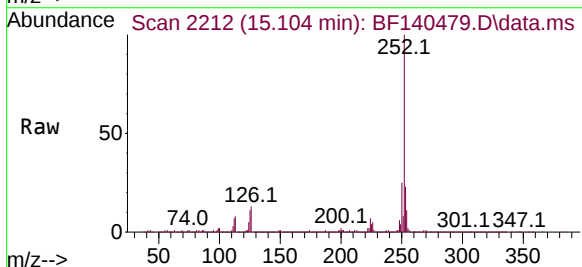
Instrument :
 BNA_F
 ClientSampleId :
 #72-11930

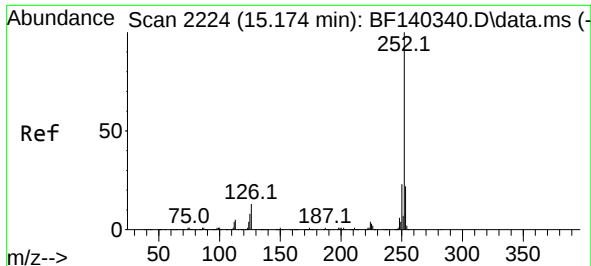
Tgt Ion:276 Resp: 602580
 Ion Ratio Lower Upper
 276 100
 138 19.9 18.8 28.2
 277 24.8 20.2 30.2



#88
 Benzo(b)fluoranthene
 Concen: 138.215 ng
 RT: 15.104 min Scan# 2212
 Delta R.T. -0.012 min
 Lab File: BF140479.D
 Acq: 19 Nov 2024 17:43

Tgt Ion:252 Resp: 1705899
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.5 26.3
 125 10.9 8.0 12.0





#89

Benzo(k)fluoranthene

Concen: 169.189 ng

RT: 15.104 min Scan# 21

Delta R.T. -0.047 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Instrument :

BNA_F

ClientSampleId :

#72-11930

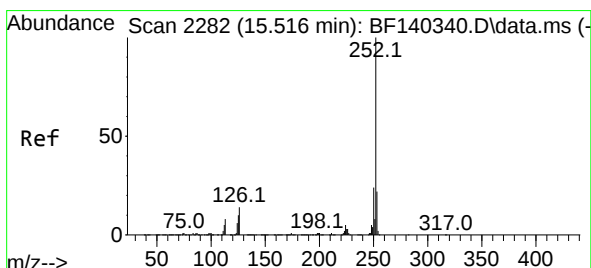
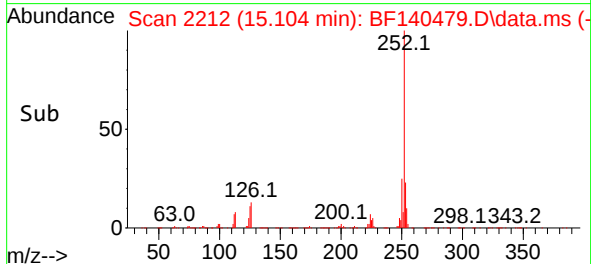
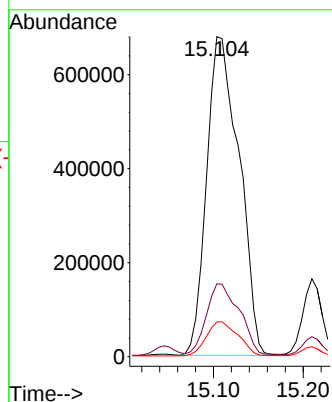
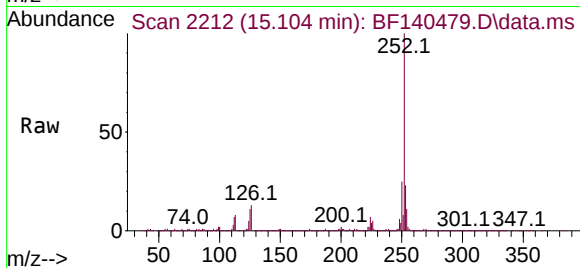
Tgt Ion:252 Resp: 1705899

Ion Ratio Lower Upper

252 100

253 22.8 17.3 25.9

125 10.9 7.4 11.2



#90

Benzo(a)pyrene

Concen: 80.589 ng

RT: 15.480 min Scan# 2276

Delta R.T. -0.012 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

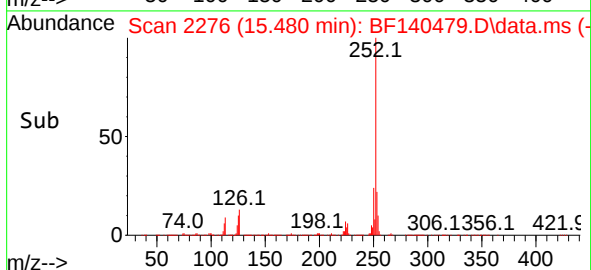
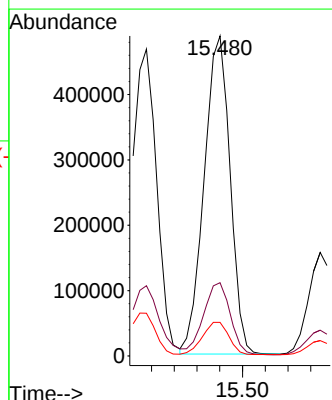
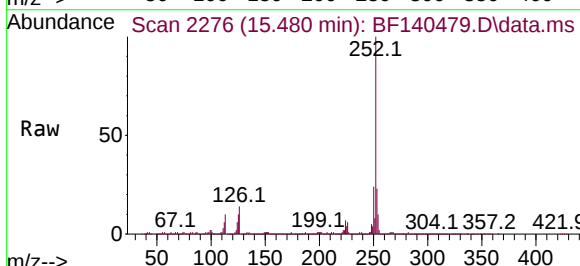
Tgt Ion:252 Resp: 772420

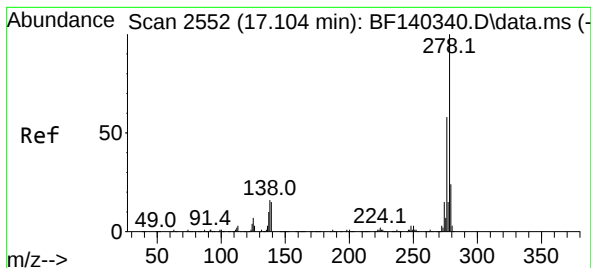
Ion Ratio Lower Upper

252 100

253 22.9 17.8 26.6

125 10.5 8.4 12.6





#91

Dibenzo(a,h)anthracene

Concen: 9.611 ng

RT: 17.215 min Scan# 21

Delta R.T. 0.141 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Instrument :

BNA_F

ClientSampleId :

#72-11930

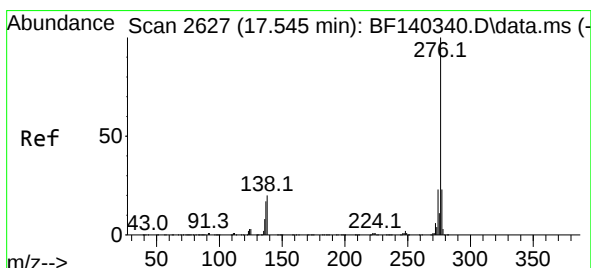
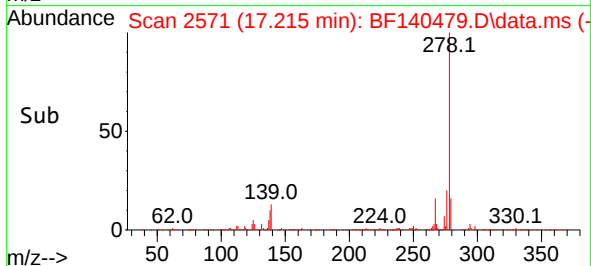
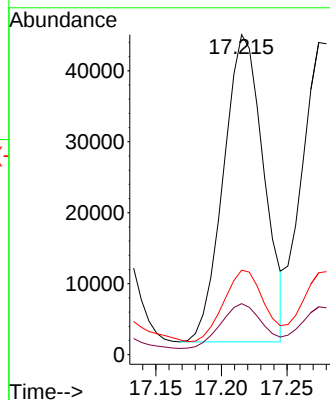
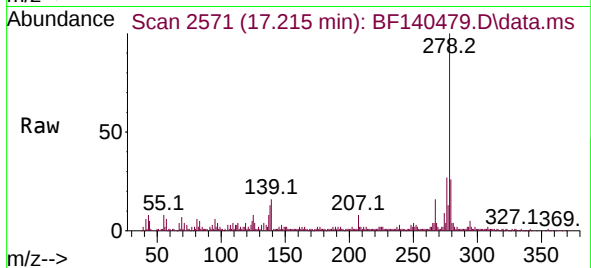
Tgt Ion:278 Resp: 92589

Ion Ratio Lower Upper

278 100

139 15.9 11.8 17.8

279 26.4 18.9 28.3



#92

Benzo(g,h,i)perylene

Concen: 59.248 ng

RT: 17.504 min Scan# 2620

Delta R.T. -0.012 min

Lab File: BF140479.D

Acq: 19 Nov 2024 17:43

Tgt Ion:276 Resp: 583543

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 20.3 16.0 24.0

