

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051625\
 Data File : BF142430.D
 Acq On : 16 May 2025 16:44
 Operator : RC/JU
 Sample : Q2038-01DL 5X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 72-11991DL

Quant Time: May 16 17:10:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF050525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 05 18:41:44 2025
 Response via : Initial Calibration

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

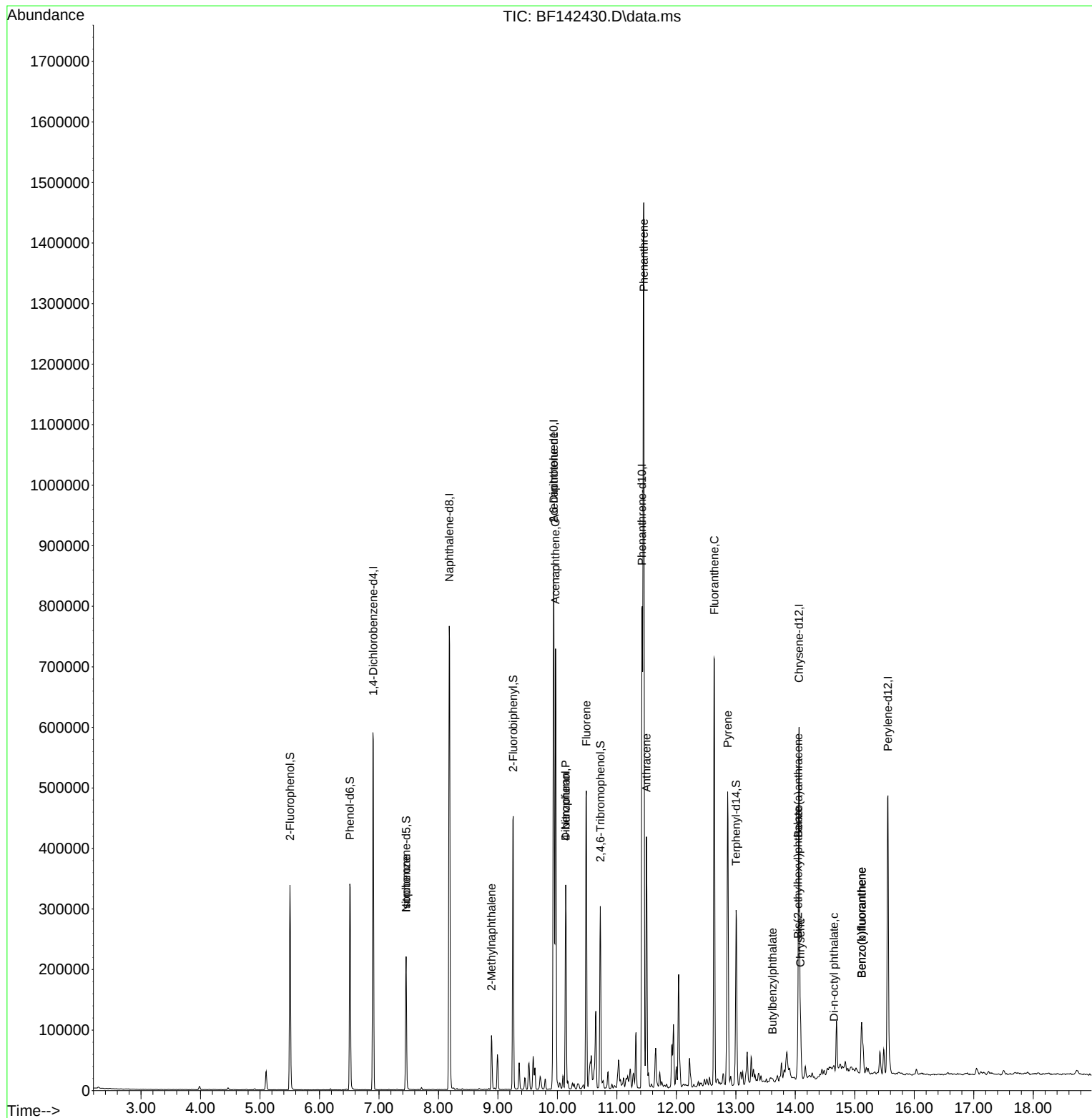
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	133141	20.000	ng	0.00
21) Naphthalene-d8	8.181	136	502392	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	264481	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	419323	20.000	ng	-0.01
76) Chrysene-d12	14.063	240	245727	20.000	ng	0.00
86) Perylene-d12	15.557	264	277550	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	127729	16.377	ng	0.00
7) Phenol-d6	6.510	99	157867	16.457	ng	-0.01
23) Nitrobenzene-d5	7.457	82	88818	10.782	ng	-0.01
42) 2,4,6-Tribromophenol	10.722	330	37310	14.611	ng	-0.01
45) 2-Fluorobiphenyl	9.257	172	206756	11.147	ng	0.00
79) Terphenyl-d14	13.004	244	138887	8.366	ng	-0.01
Target Compounds						Qvalue
25) Isophorone	7.457	82	87075	5.582	ng	# 62
37) 2-Methylnaphthalene	8.892	142	35532	2.348	ng	96
51) 2,6-Dinitrotoluene	9.939	165	35345	11.119	ng	# 23
52) Acenaphthene	9.969	154	221495	14.601	ng	98
55) Dibenzofuran	10.139	168	186028	8.310	ng	99
56) 4-Nitrophenol	10.139	139	66984	23.872	ng	# 10
58) Fluorene	10.486	166	206836	12.106	ng	99
71) Phenanthrene	11.451	178	786848	35.799	ng	99
72) Anthracene	11.498	178	231360	10.244	ng	99
75) Fluoranthene	12.639	202	423974	19.296	ng	98
78) Pyrene	12.863	202	280941	12.845	ng	98
80) Butylbenzylphthalate	13.616	149	122	3.677	ng	# 55
81) Benzo(a)anthracene	14.051	228	61150	3.843	ng	98
83) Chrysene	14.086	228	54959	3.710	ng	98
84) Bis(2-ethylhexyl)phtha...	14.045	149	3955	4.671	ng	# 98
85) Di-n-octyl phthalate	14.651	149	5489	8.146	ng	# 56
88) Benzo(b)fluoranthene	15.115	252	74312	4.421	ng	99
89) Benzo(k)fluoranthene	15.115	252	74312	4.831	ng	98

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

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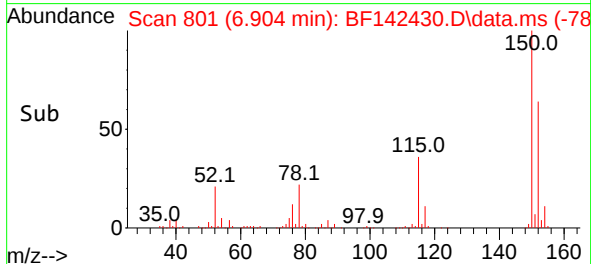
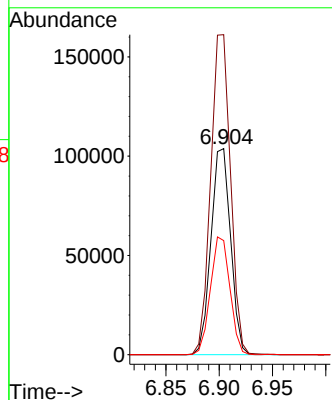
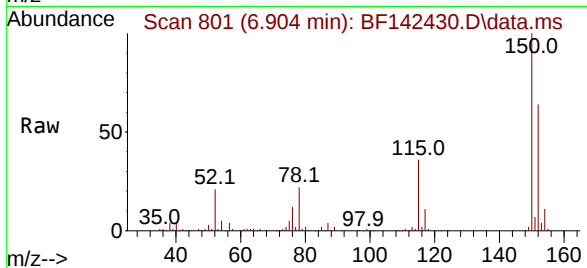




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.904 min Scan# 801
 Delta R.T. 0.000 min
 Lab File: BF142430.D
 Acq: 16 May 2025 16:44

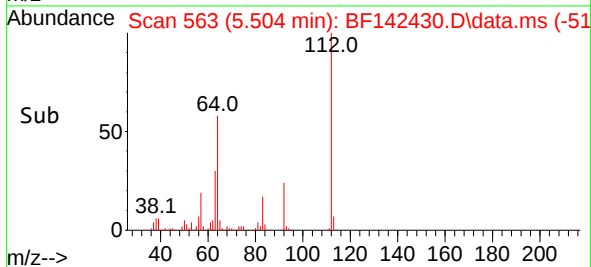
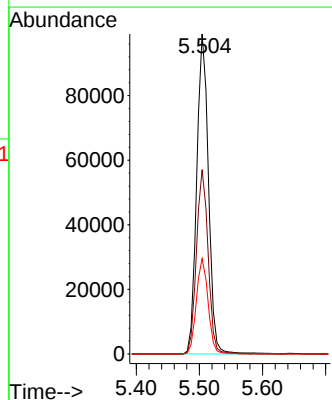
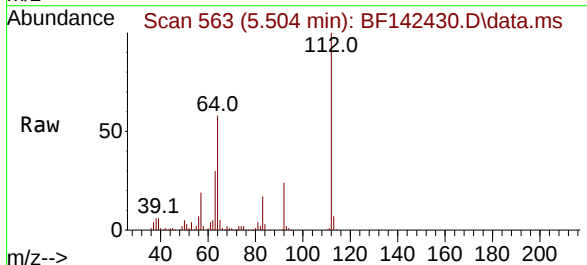
Instrument :
 BNA_F
 ClientSampleId :
 72-11991DL

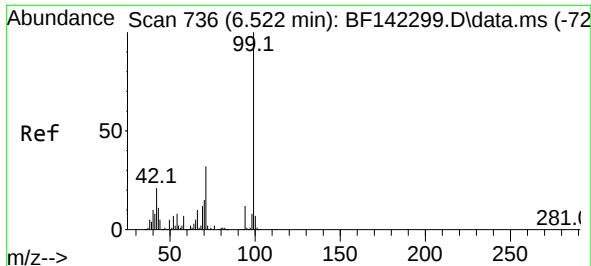
Tgt Ion:152 Resp: 133141
 Ion Ratio Lower Upper
 152 100
 150 155.3 126.6 190.0
 115 55.3 47.3 70.9



#5
 2-Fluorophenol
 Concen: 16.377 ng
 RT: 5.504 min Scan# 563
 Delta R.T. -0.006 min
 Lab File: BF142430.D
 Acq: 16 May 2025 16:44

Tgt Ion:112 Resp: 127729
 Ion Ratio Lower Upper
 112 100
 64 57.6 48.9 73.3
 63 29.8 25.6 38.4

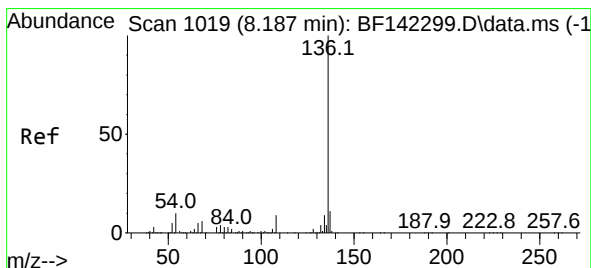
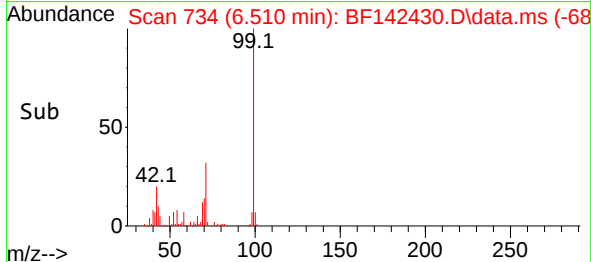
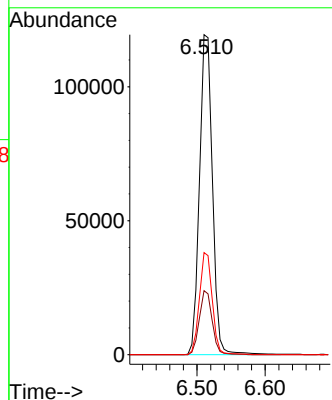
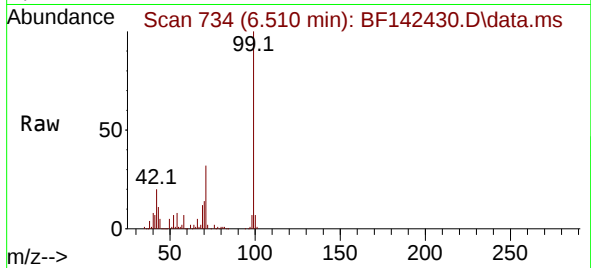




#7
Phenol-d6
Concen: 16.457 ng
RT: 6.510 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

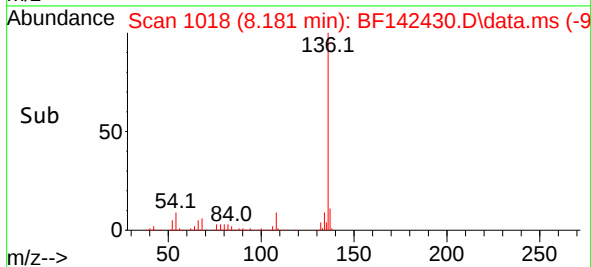
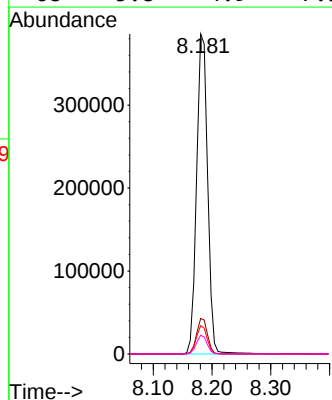
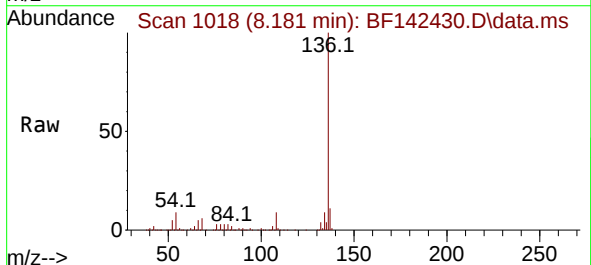
Instrument :
BNA_F
ClientSampleId :
72-11991DL

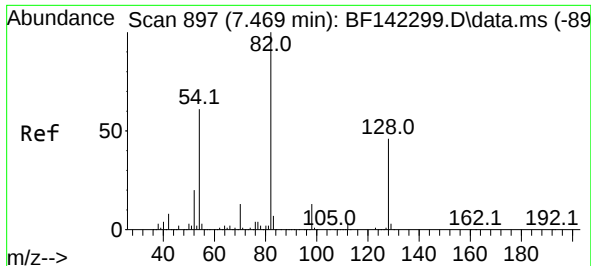
Tgt Ion: 99 Resp: 157867
Ion Ratio Lower Upper
99 100
42 20.0 17.0 25.4
71 31.9 25.8 38.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.181 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

Tgt Ion: 136 Resp: 502392
Ion Ratio Lower Upper
136 100
137 11.1 8.9 13.3
54 8.9 7.7 11.5
68 5.8 4.9 7.3





#23

Nitrobenzene-d5

Concen: 10.782 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.012 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

Instrument :

BNA_F

ClientSampleId :

72-11991DL

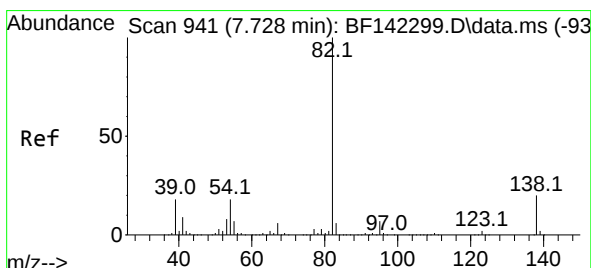
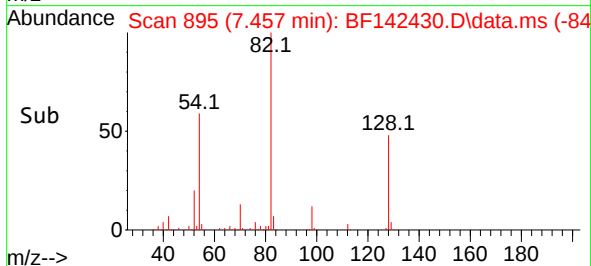
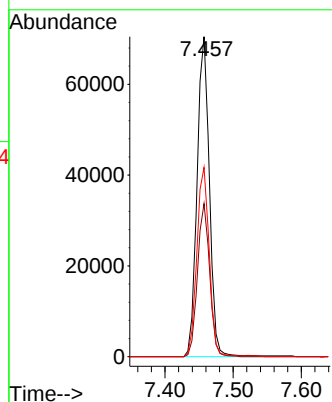
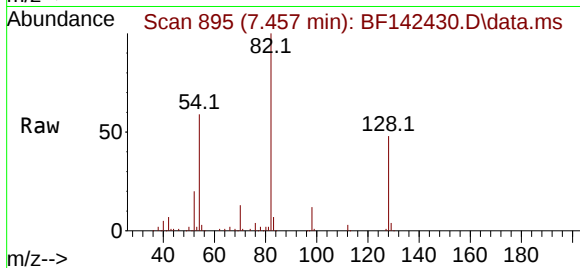
Tgt Ion: 82 Resp: 88818

Ion Ratio Lower Upper

82 100

128 47.9 37.0 55.6

54 59.2 48.6 73.0



#25

Isophorone

Concen: 5.582 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.271 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

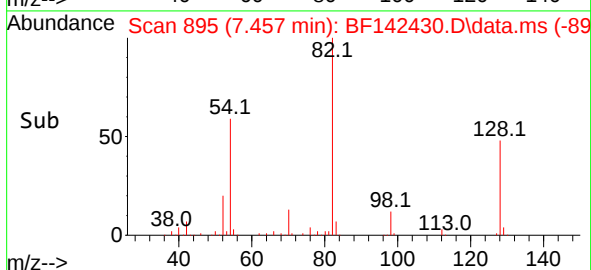
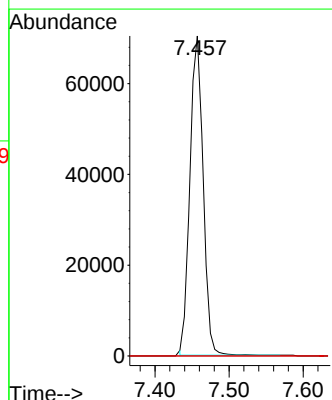
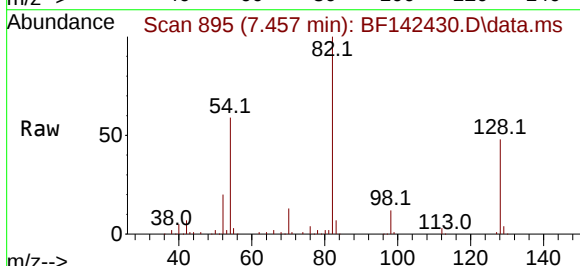
Tgt Ion: 82 Resp: 87075

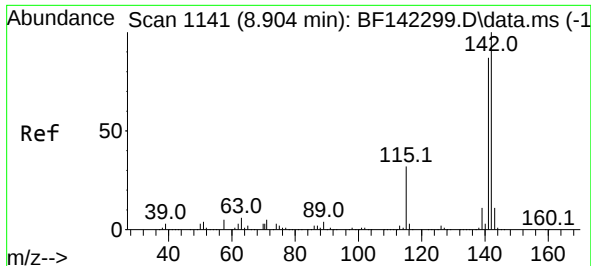
Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.8#

138 0.0 16.1 24.1#





#37

2-Methylnaphthalene

Concen: 2.348 ng

RT: 8.892 min Scan# 1139

Delta R.T. -0.012 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

Instrument :

BNA_F

ClientSampleId :

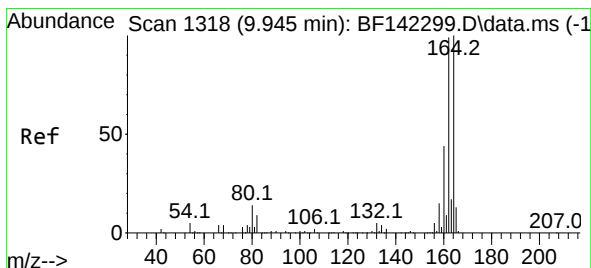
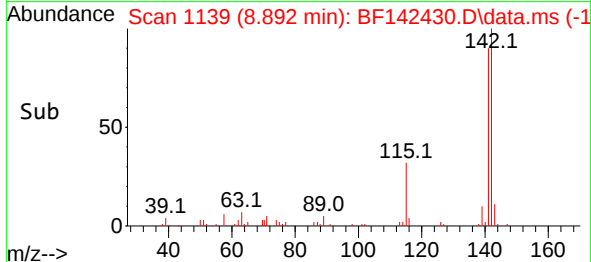
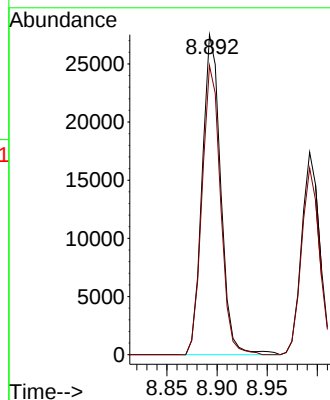
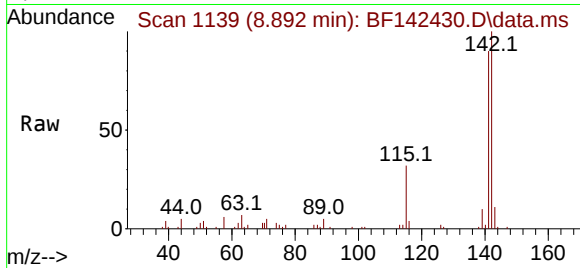
72-11991DL

Tgt Ion:142 Resp: 35532

Ion Ratio Lower Upper

142 100

141 90.4 69.4 104.2



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1317

Delta R.T. -0.006 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

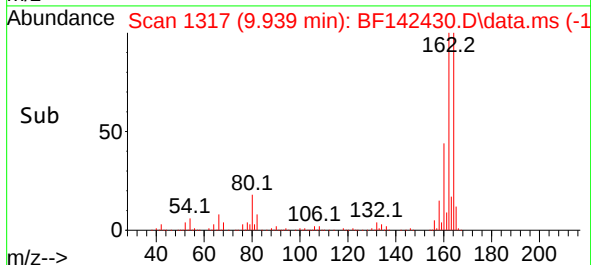
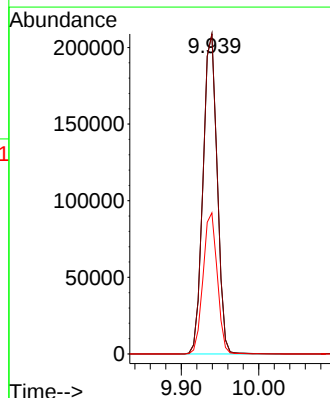
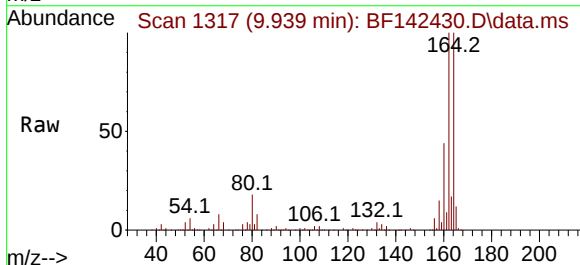
Tgt Ion:164 Resp: 264481

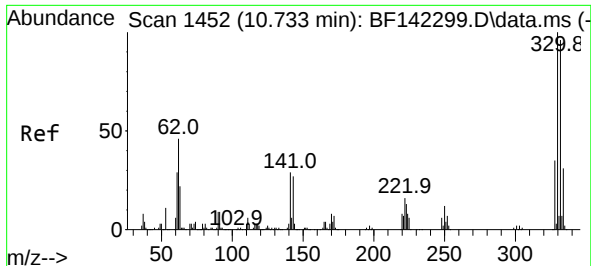
Ion Ratio Lower Upper

164 100

162 99.9 79.2 118.8

160 44.1 35.3 52.9





#42

2,4,6-Tribromophenol

Concen: 14.611 ng

RT: 10.722 min Scan# 1450

Delta R.T. -0.012 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

Instrument :

BNA_F

ClientSampleId :

72-11991DL

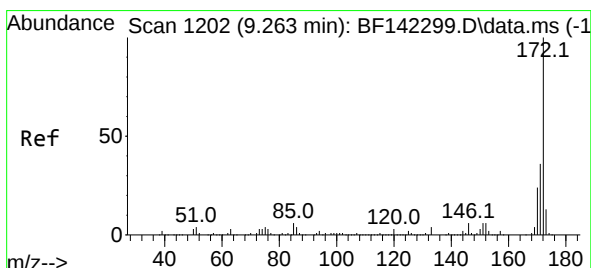
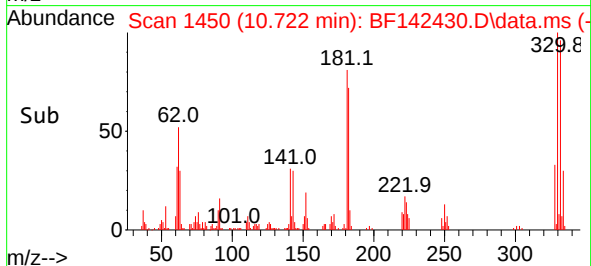
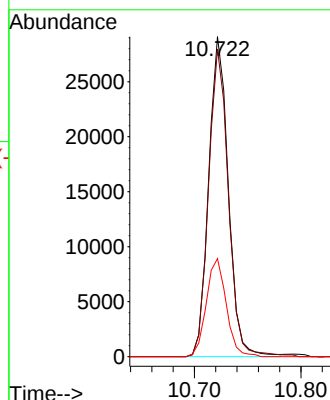
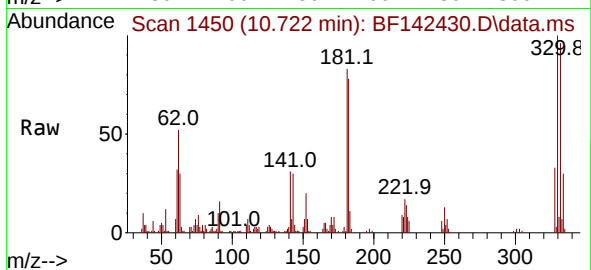
Tgt Ion:330 Resp: 37310

Ion Ratio Lower Upper

330 100

332 97.0 76.8 115.2

141 31.2 24.9 37.3



#45

2-Fluorobiphenyl

Concen: 11.147 ng

RT: 9.257 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

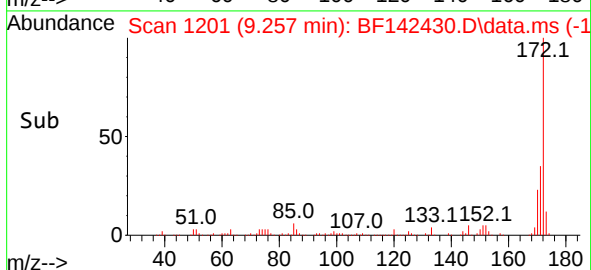
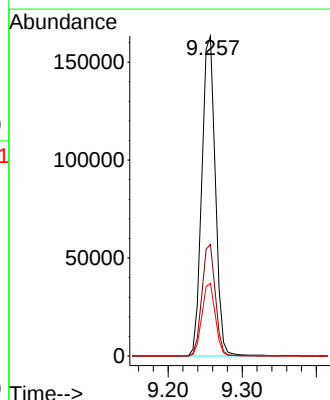
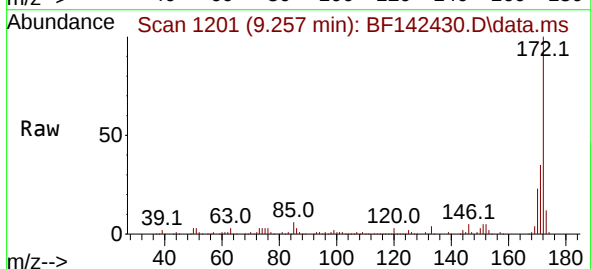
Tgt Ion:172 Resp: 206756

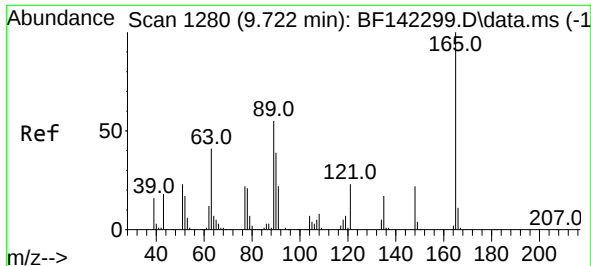
Ion Ratio Lower Upper

172 100

171 34.8 28.6 42.8

170 22.7 19.0 28.4

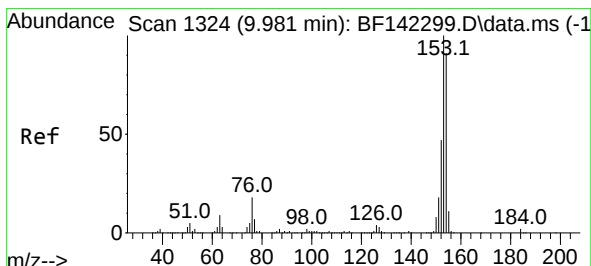
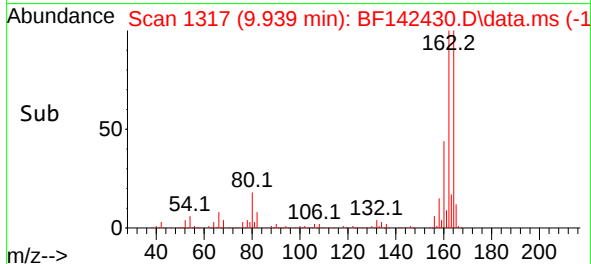
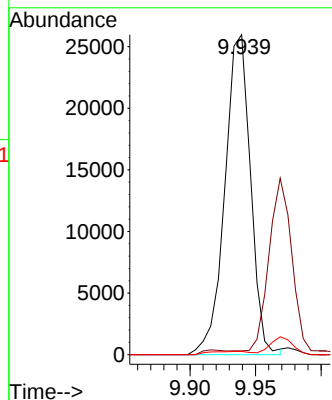
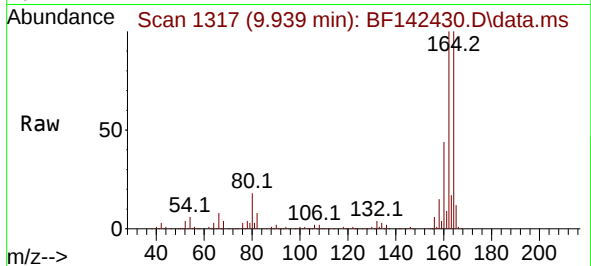




#51
2,6-Dinitrotoluene
Concen: 11.119 ng
RT: 9.939 min Scan# 11
Delta R.T. 0.218 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

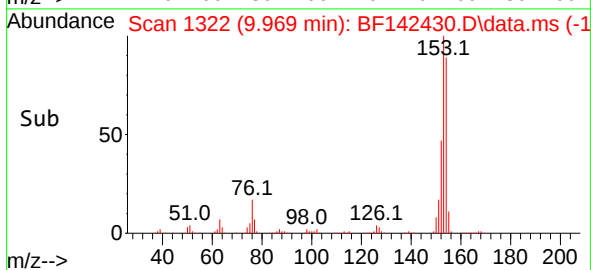
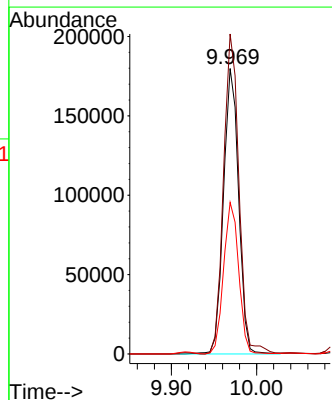
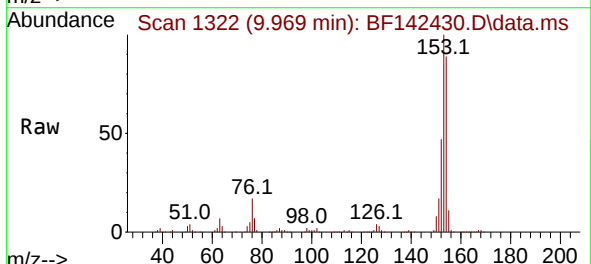
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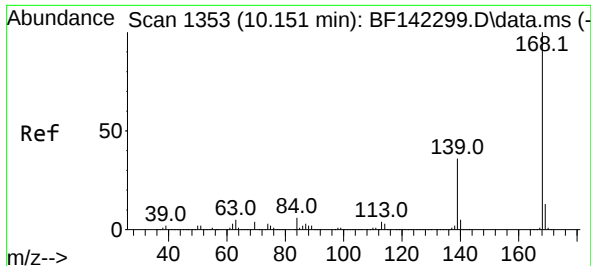
Tgt Ion:165 Resp: 35345
Ion Ratio Lower Upper
165 100
63 1.2 49.5 74.3#
89 1.0 44.6 66.8#



#52
Acenaphthene
Concen: 14.601 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.012 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

Tgt Ion:154 Resp: 221495
Ion Ratio Lower Upper
154 100
153 112.1 88.0 132.0
152 53.1 41.6 62.4

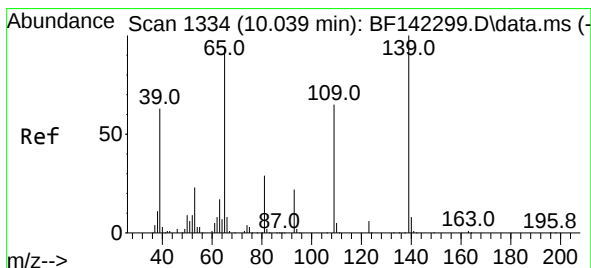
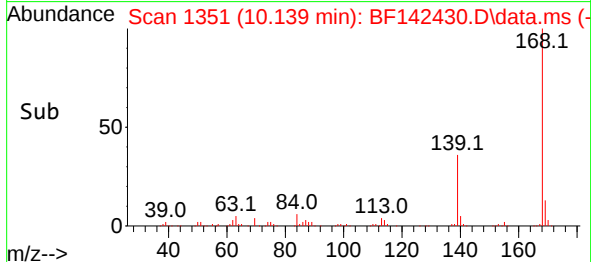
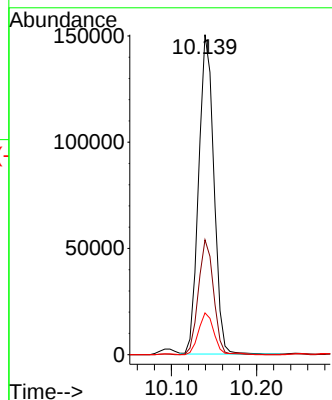
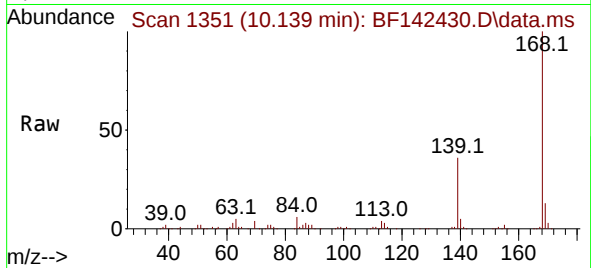




#55
Dibenzenofuran
Concen: 8.310 ng
RT: 10.139 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

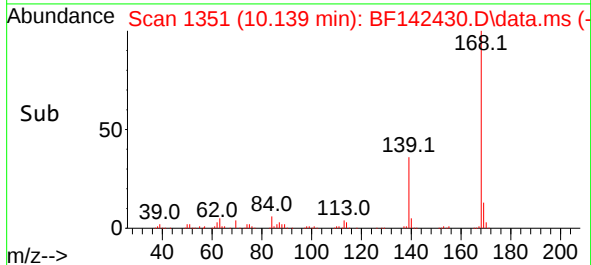
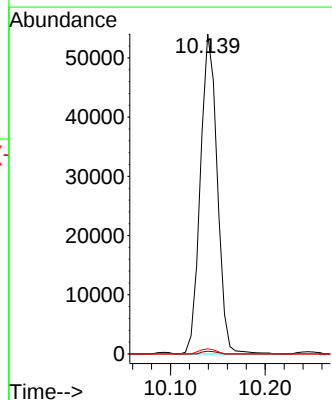
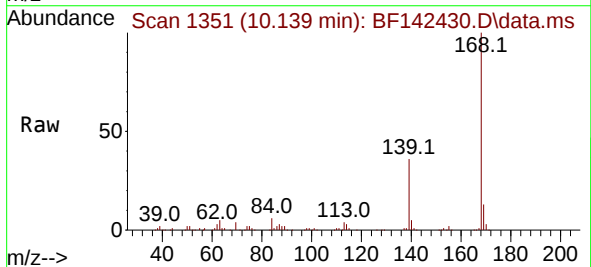
Instrument :
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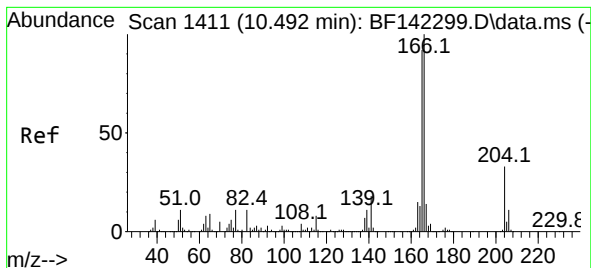
Tgt Ion:168 Resp: 186028
Ion Ratio Lower Upper
168 100
139 35.9 29.0 43.4
169 13.1 10.7 16.1



#56
4-Nitrophenol
Concen: 23.872 ng
RT: 10.139 min Scan# 1351
Delta R.T. 0.100 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

Tgt Ion:139 Resp: 66984
Ion Ratio Lower Upper
139 100
109 0.8 45.3 85.3#
65 1.6 73.9 113.9#





#58

Fluorene

Concen: 12.106 ng

RT: 10.486 min Scan# 1411

Delta R.T. -0.006 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

Instrument :

BNA_F

ClientSampleId :

72-11991DL

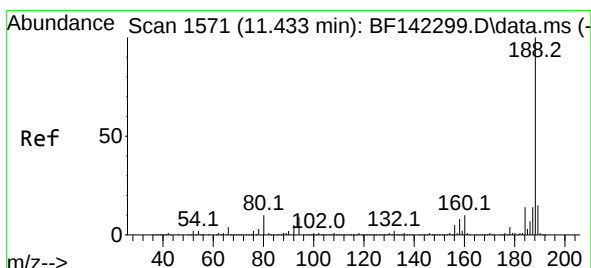
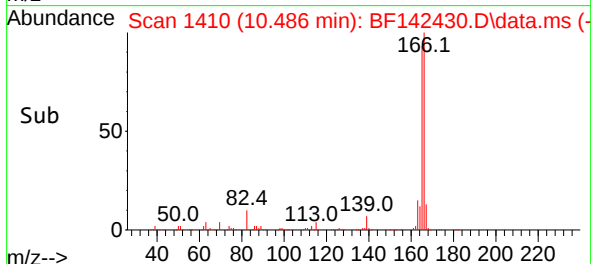
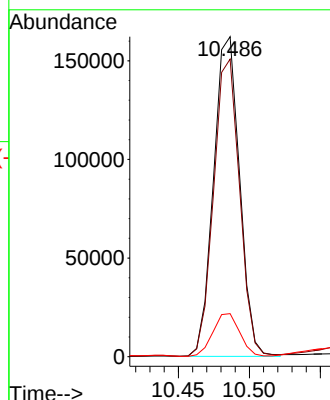
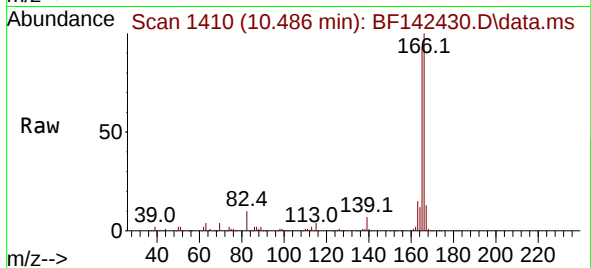
Tgt Ion:166 Resp: 206836

Ion Ratio Lower Upper

166 100

165 93.0 74.0 111.0

167 13.4 10.9 16.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.422 min Scan# 1569

Delta R.T. -0.012 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

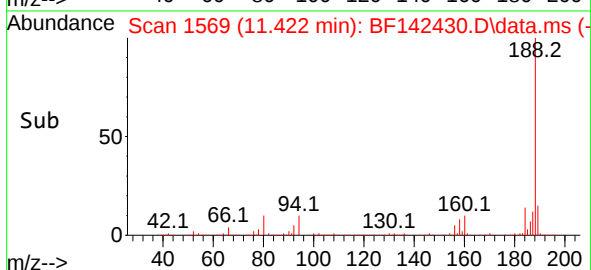
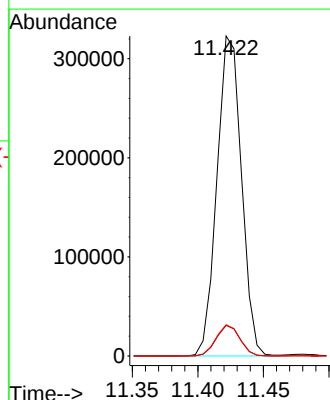
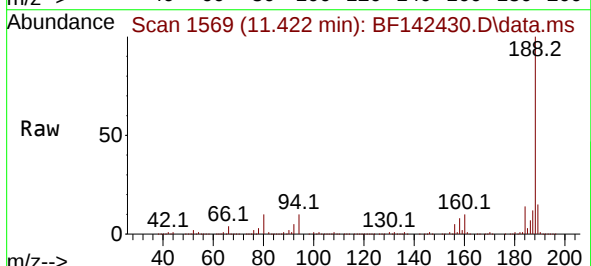
Tgt Ion:188 Resp: 419323

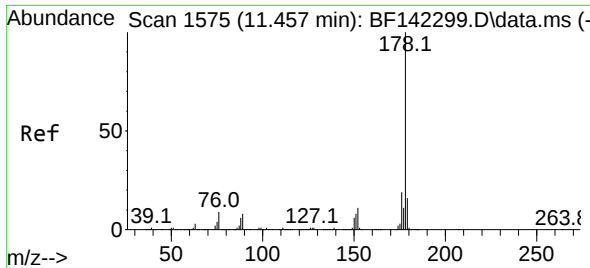
Ion Ratio Lower Upper

188 100

94 9.5 7.5 11.3

80 9.8 7.9 11.9

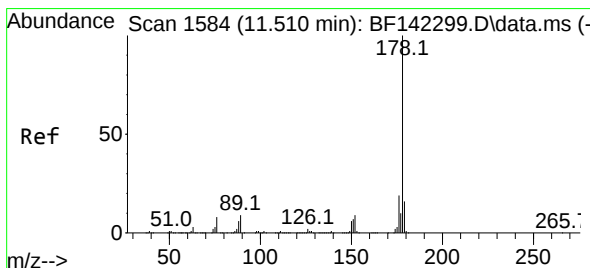
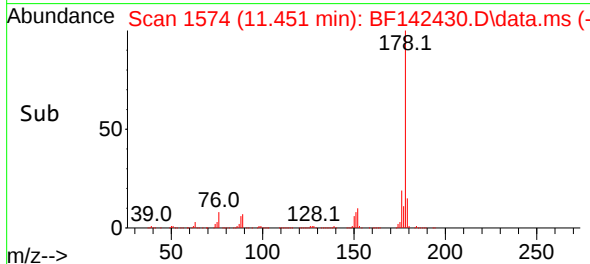
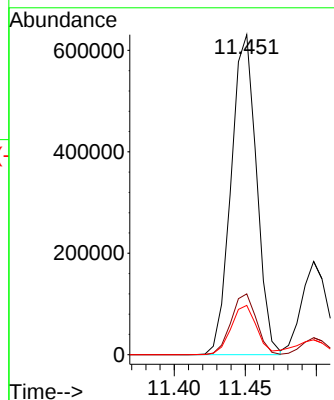
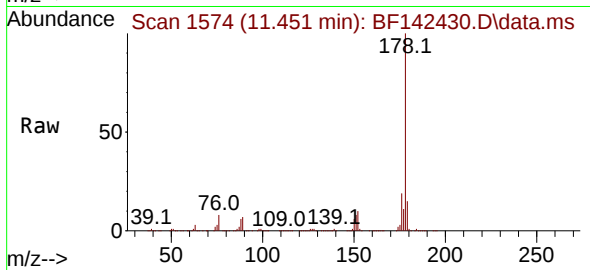




#71
Phenanthrene
Concen: 35.799 ng
RT: 11.451 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

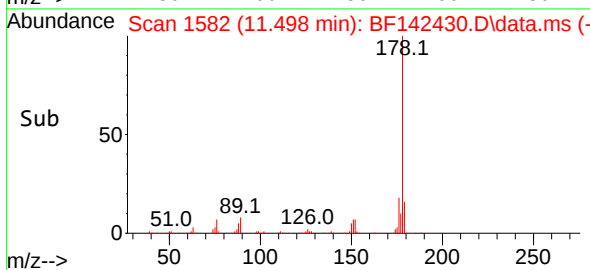
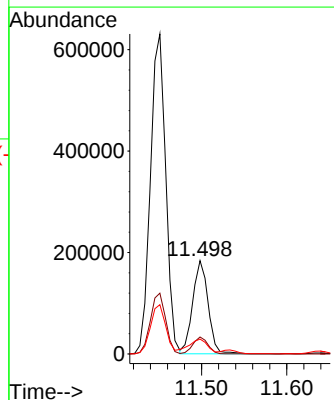
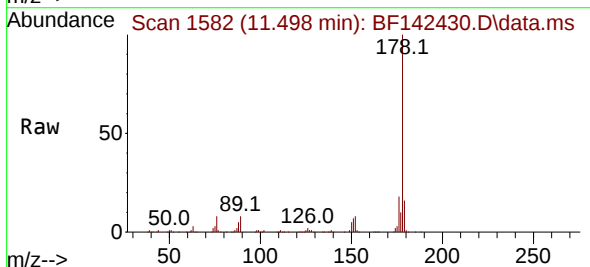
Instrument :
BNA_F
ClientSampleId :
72-11991DL

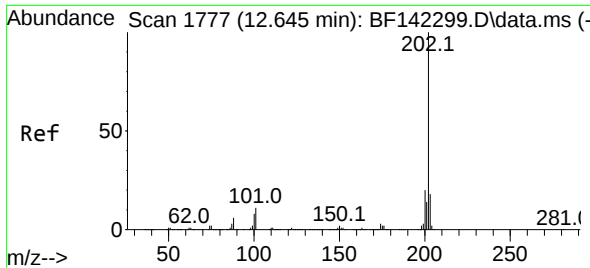
Tgt Ion:178 Resp: 786848
Ion Ratio Lower Upper
178 100
176 19.0 15.5 23.3
179 15.4 12.6 18.8



#72
Anthracene
Concen: 10.244 ng
RT: 11.498 min Scan# 1582
Delta R.T. -0.012 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

Tgt Ion:178 Resp: 231360
Ion Ratio Lower Upper
178 100
176 18.2 15.3 22.9
179 16.0 12.6 18.8

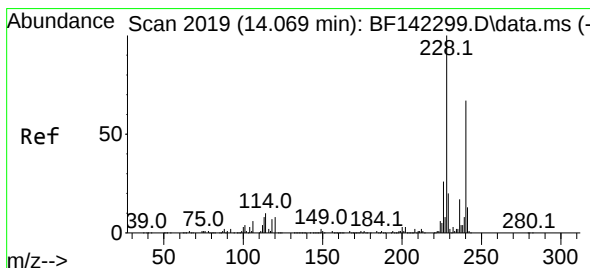
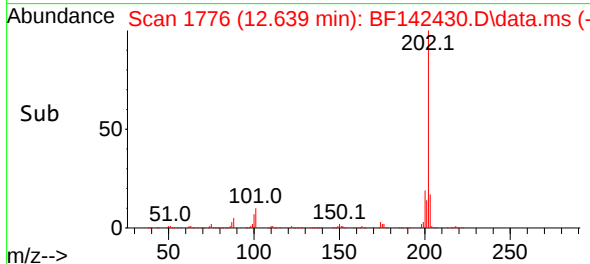
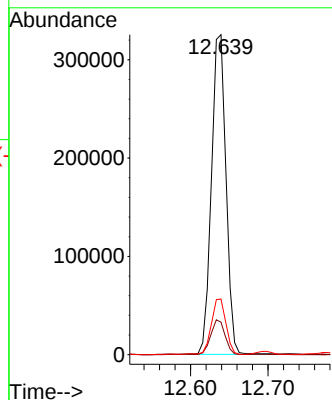
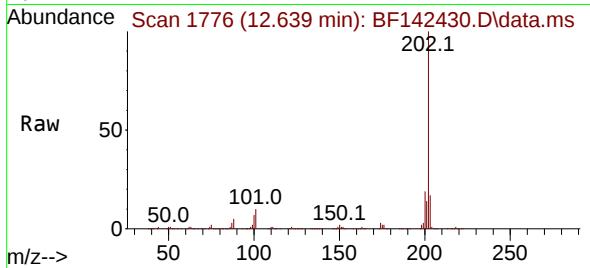




#75
Fluoranthene
Concen: 19.296 ng
RT: 12.639 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

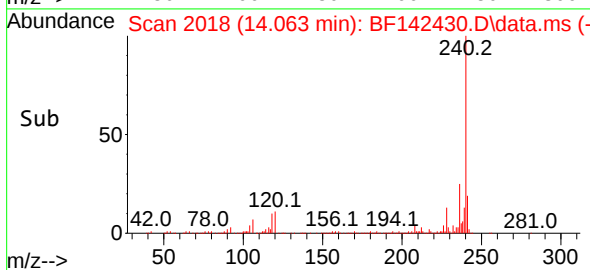
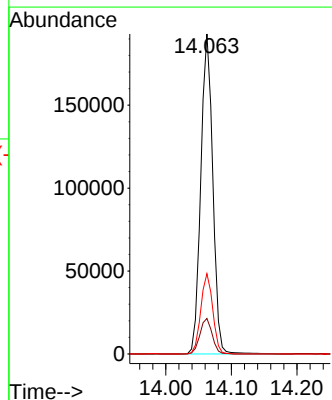
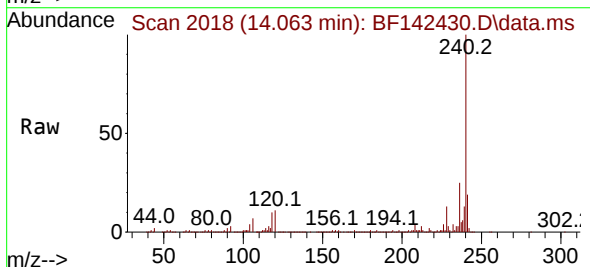
Instrument :
BNA_F
ClientSampleId :
72-11991DL

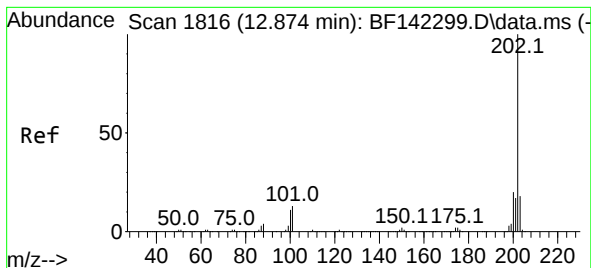
Tgt Ion:202 Resp: 423974
Ion Ratio Lower Upper
202 100
101 10.1 0.0 31.4
203 17.4 0.0 37.9



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

Tgt Ion:240 Resp: 245727
Ion Ratio Lower Upper
240 100
120 11.1 9.7 14.5
236 25.1 20.0 30.0





#78

Pyrene

Concen: 12.845 ng

RT: 12.863 min Scan# 1814

Delta R.T. -0.012 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

Instrument :

BNA_F

ClientSampleId :

72-11991DL

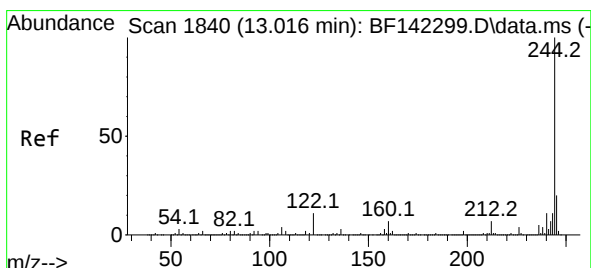
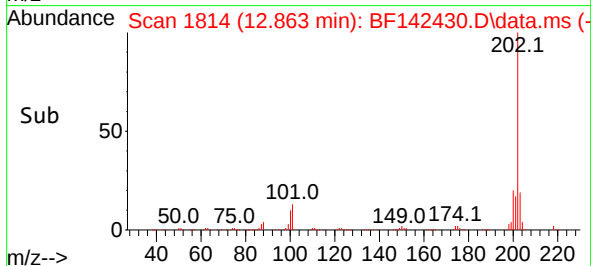
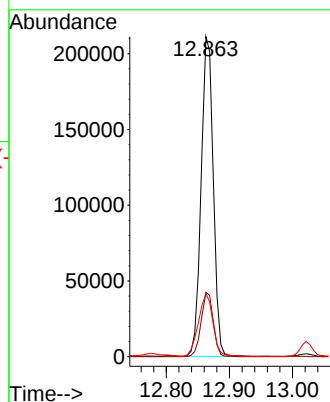
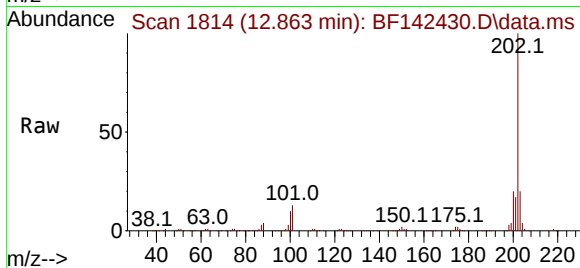
Tgt Ion:202 Resp: 280941

Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.4

203 19.7 14.3 21.5



#79

Terphenyl-d14

Concen: 8.366 ng

RT: 13.004 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

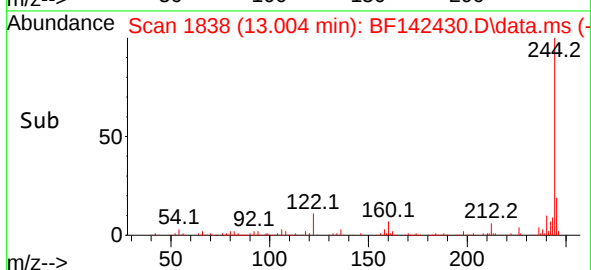
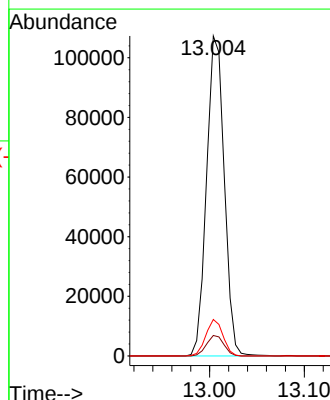
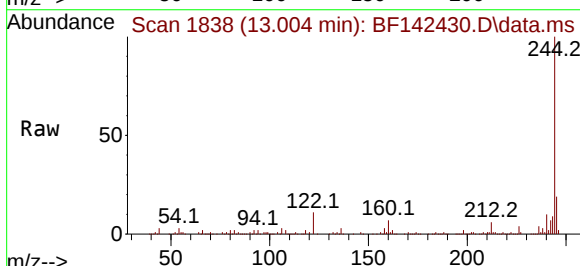
Tgt Ion:244 Resp: 138887

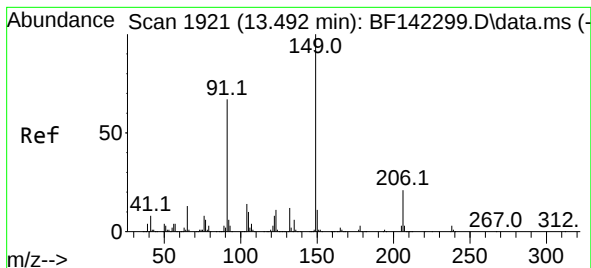
Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

122 11.4 9.0 13.4





#80

Butylbenzylphthalate

Concen: 3.677 ng

RT: 13.616 min Scan# 1921

Delta R.T. 0.124 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

Instrument :

BNA_F

ClientSampleId :

72-11991DL

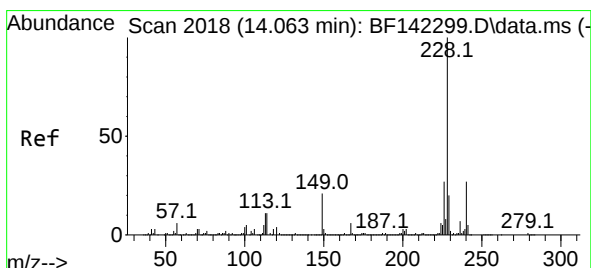
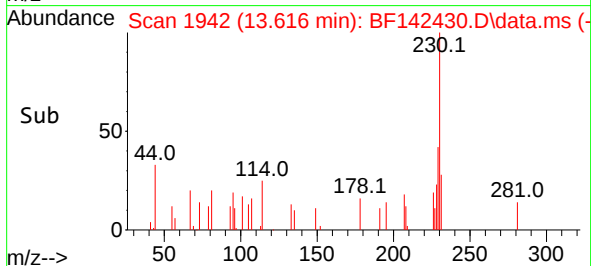
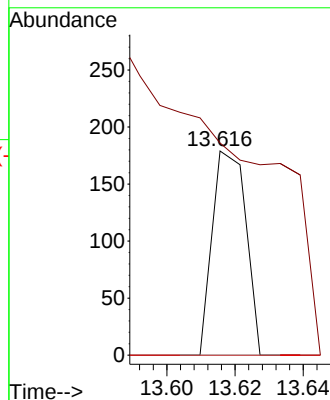
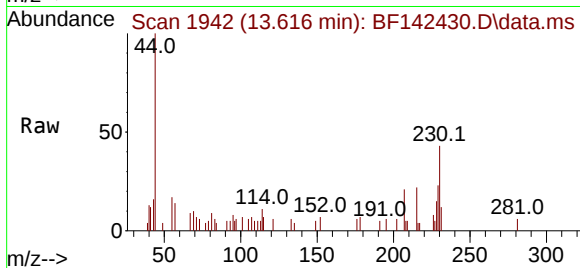
Tgt Ion:149 Resp: 122

Ion Ratio Lower Upper

149 100

91 103.9 53.8 80.6#

206 0.0 16.6 24.8#



#81

Benzo(a)anthracene

Concen: 3.843 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.012 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

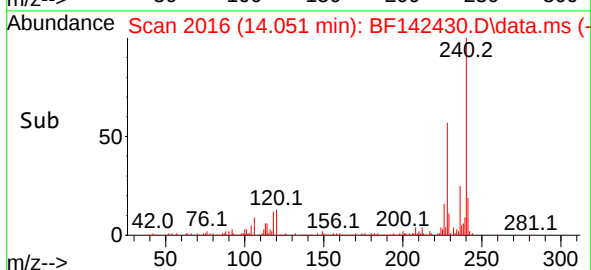
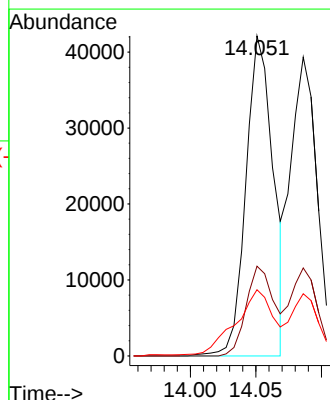
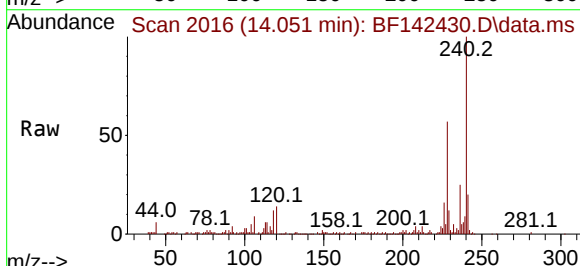
Tgt Ion:228 Resp: 61150

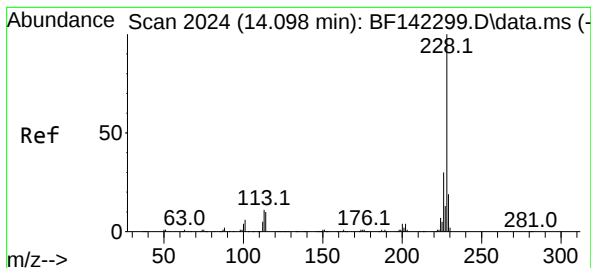
Ion Ratio Lower Upper

228 100

226 28.0 21.5 32.3

229 20.7 15.9 23.9





#83

Chrysene

Concen: 3.710 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

Instrument :

BNA_F

ClientSampleId :

72-11991DL

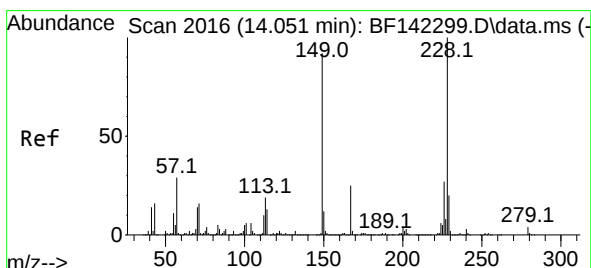
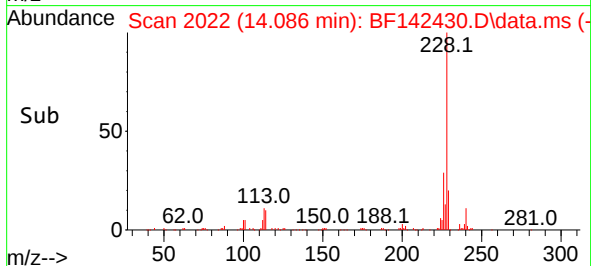
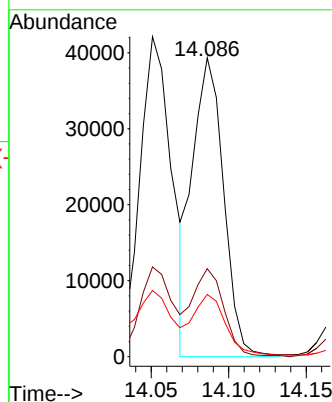
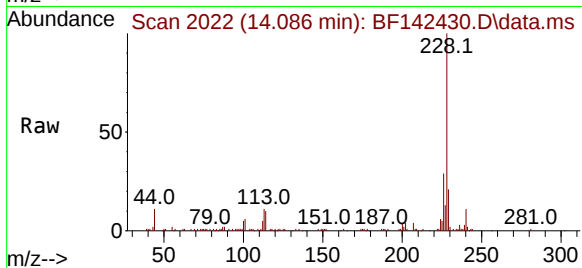
Tgt Ion:228 Resp: 54959

Ion Ratio Lower Upper

228 100

226 29.4 23.9 35.9

229 20.8 15.4 23.2



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.671 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

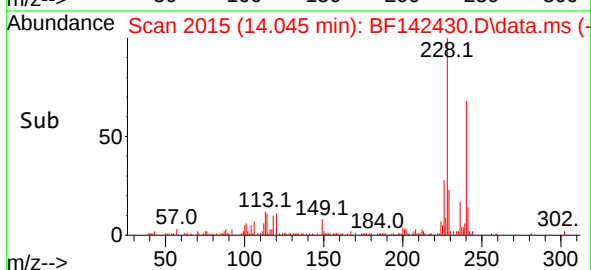
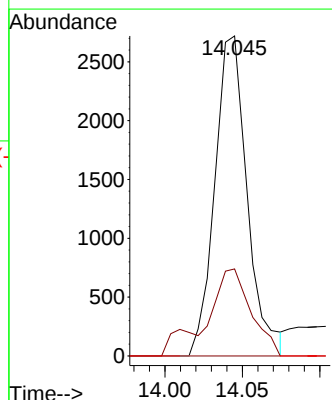
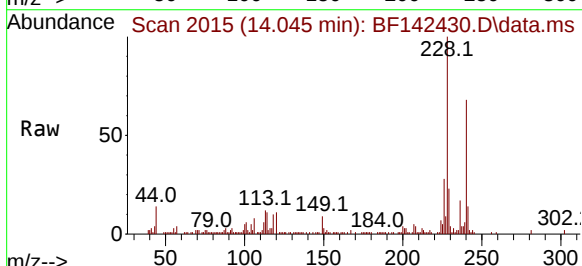
Tgt Ion:149 Resp: 3955

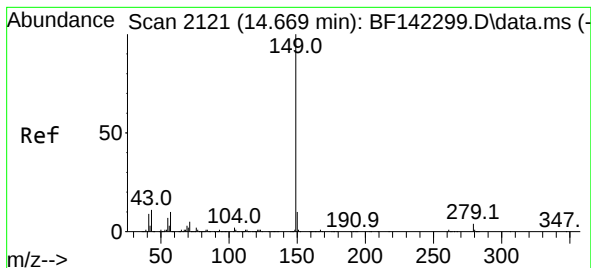
Ion Ratio Lower Upper

149 100

167 27.2 22.0 33.0

279 0.0 3.0 4.6#





#85

Di-n-octyl phthalate

Concen: 8.146 ng

RT: 14.651 min Scan# 2118

Delta R.T. -0.018 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

Instrument :

BNA_F

ClientSampleId :

72-11991DL

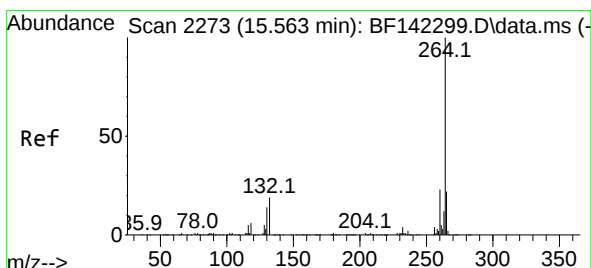
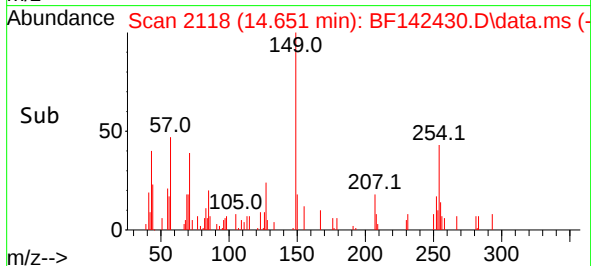
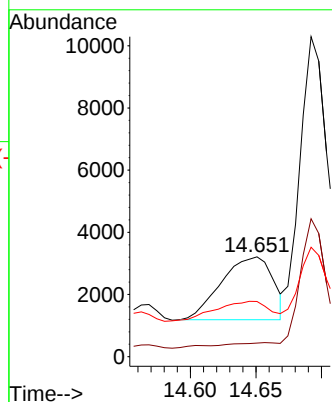
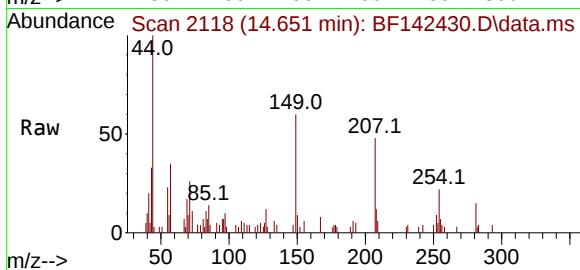
Tgt Ion:149 Resp: 5489

Ion Ratio Lower Upper

149 100

167 0.0 1.1 1.7#

43 30.2 9.2 13.8#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 2272

Delta R.T. -0.006 min

Lab File: BF142430.D

Acq: 16 May 2025 16:44

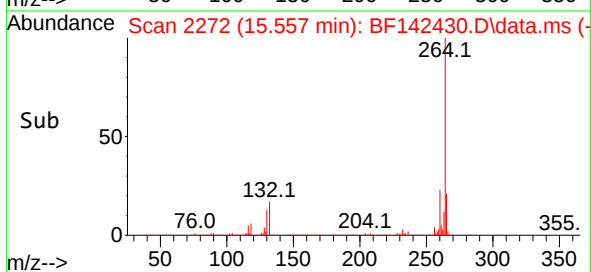
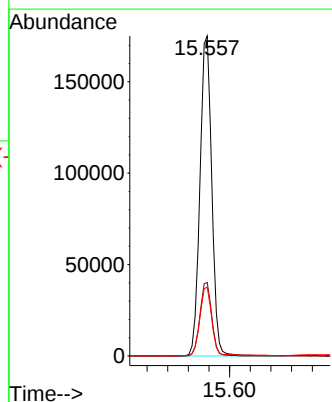
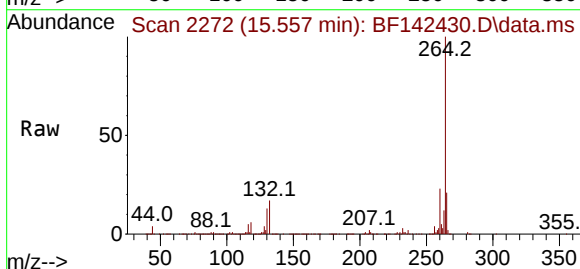
Tgt Ion:264 Resp: 277550

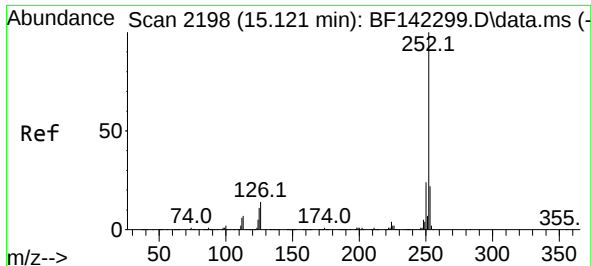
Ion Ratio Lower Upper

264 100

260 22.9 18.6 27.8

265 21.4 17.5 26.3

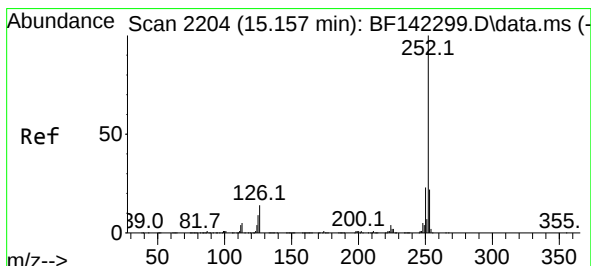
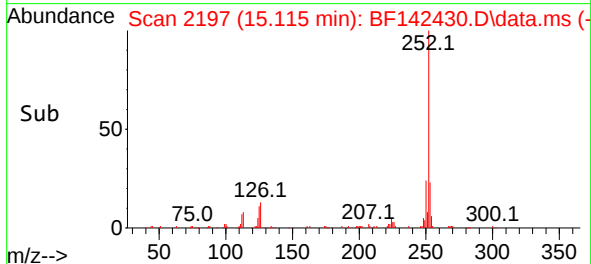
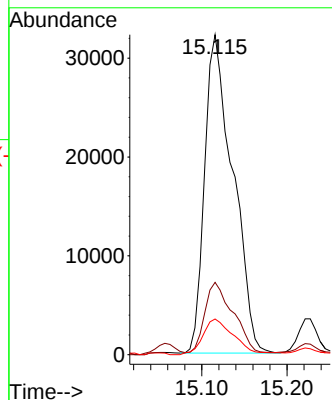
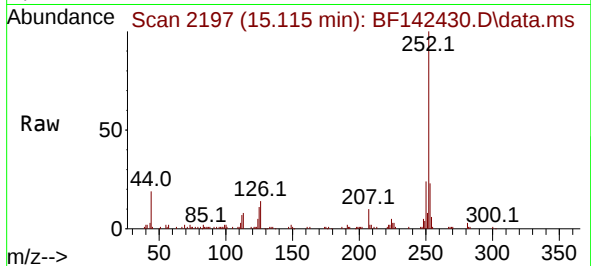




#88
Benzo(b)fluoranthene
Concen: 4.421 ng
RT: 15.115 min Scan# 2197
Delta R.T. -0.006 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

Instrument :
BNA_F
ClientSampleId :
72-11991DL

Tgt Ion:252 Resp: 74312
Ion Ratio Lower Upper
252 100
253 22.6 17.7 26.5
125 11.1 8.7 13.1



#89
Benzo(k)fluoranthene
Concen: 4.831 ng
RT: 15.115 min Scan# 2197
Delta R.T. -0.041 min
Lab File: BF142430.D
Acq: 16 May 2025 16:44

Tgt Ion:252 Resp: 74312
Ion Ratio Lower Upper
252 100
253 22.6 17.6 26.4
125 11.1 8.1 12.1

