

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF051525\
 Data File : BF142413.D
 Acq On : 16 May 2025 01:27
 Operator : RC/JU
 Sample : Q1982-04
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-4

Quant Time: May 16 03:03:47 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)

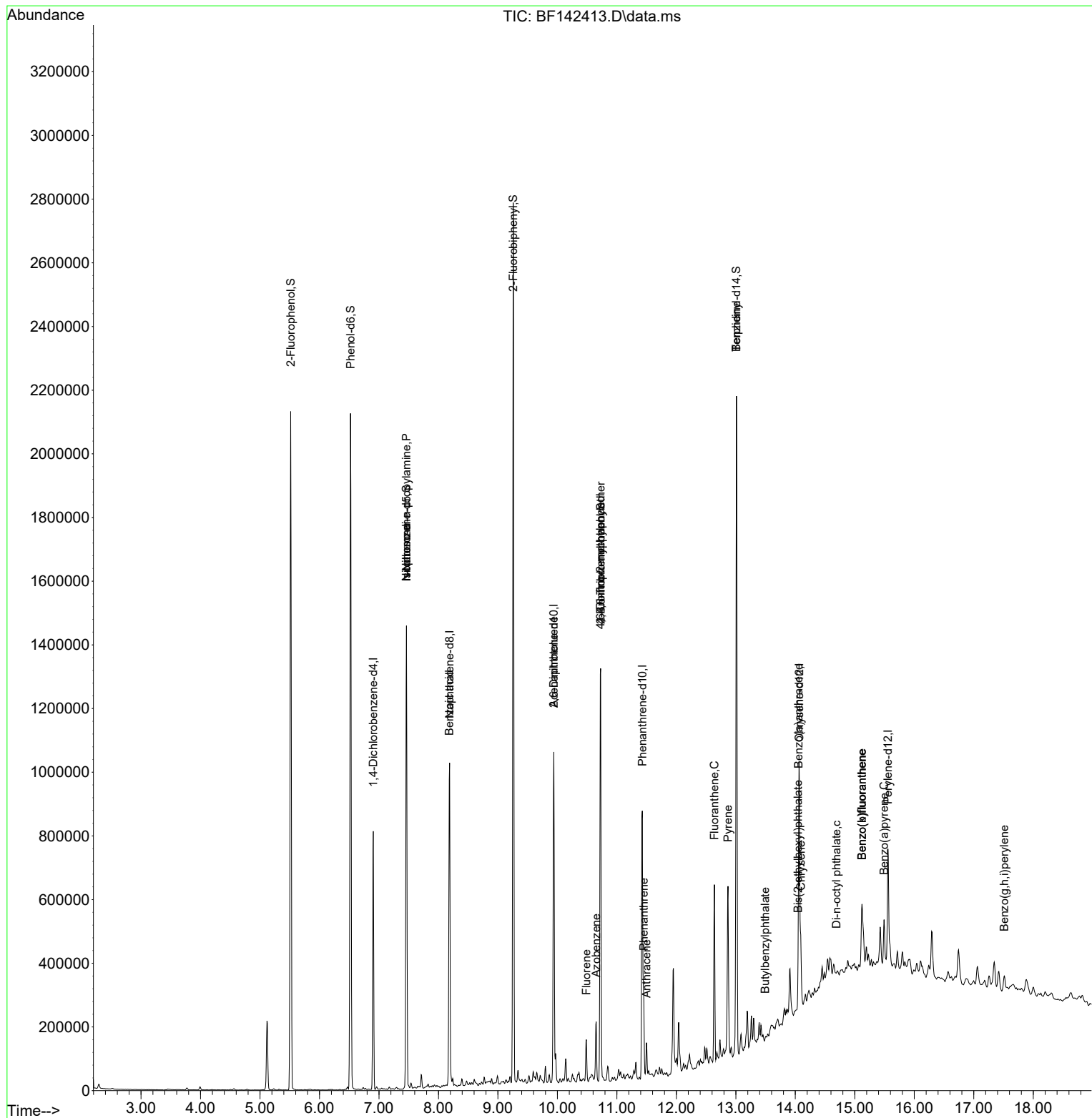
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.904	152	176019	20.000	ng	0.00
21) Naphthalene-d8	8.186	136	648776	20.000	ng	0.00
39) Acenaphthene-d10	9.939	164	308965	20.000	ng	0.00
64) Phenanthrene-d10	11.427	188	449574	20.000	ng	0.00
76) Chrysene-d12	14.068	240	299172	20.000	ng	0.00
86) Perylene-d12	15.557	264	224973	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	823786	79.893	ng	0.00
7) Phenol-d6	6.522	99	1009749	79.621	ng	0.00
23) Nitrobenzene-d5	7.463	82	604051	56.783	ng	0.00
42) 2,4,6-Tribromophenol	10.727	330	237436	79.596	ng	0.00
45) 2-Fluorobiphenyl	9.257	172	1218248	56.222	ng	0.00
79) Terphenyl-d14	13.010	244	1012854	50.109	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.463	70	82953	10.575	ng	# 75
25) Isophorone	7.463	82	594153	29.495	ng	# 62
32) Benzoic acid	8.181	122	110	6.035	ng	# 1
51) 2,6-Dinitrotoluene	9.939	165	40842	10.998	ng	# 23
58) Fluorene	10.486	166	54944	2.753	ng	96
63) Azobenzene	10.651	77	41006	2.166	ng	# 1
65) 4,6-Dinitro-2-methylph...	10.722	198	388	7.342	ng	# 1
67) 4-Bromophenyl-phenylether	10.727	248	14574	2.860	ng	# 1
71) Phenanthrene	11.451	178	142883	6.063	ng	98
72) Anthracene	11.498	178	58980	2.436	ng	99
75) Fluoranthene	12.639	202	315974	13.413	ng	99
77) Benzidine	13.010	184	12448	2.290	ng	95
78) Pyrene	12.869	202	317180	11.911	ng	99
80) Butylbenzylphthalate	13.492	149	158	3.678	ng	# 14
81) Benzo(a)anthracene	14.057	228	145763	7.523	ng	94
83) Chrysene	14.092	228	120799	6.697	ng	97
84) Bis(2-ethylhexyl)phtha...	14.045	149	5250	4.710	ng	# 78
85) Di-n-octyl phthalate	14.692	149	1542	7.910	ng	# 62
88) Benzo(b)fluoranthene	15.121	252	168923	12.397	ng	# 94
89) Benzo(k)fluoranthene	15.121	252	168923	13.547	ng	# 93
90) Benzo(a)pyrene	15.492	252	90398	7.404	ng	# 96
92) Benzo(g,h,i)perylene	17.515	276	47644	3.713	ng	96

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

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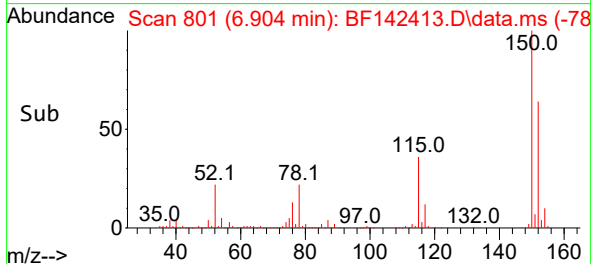
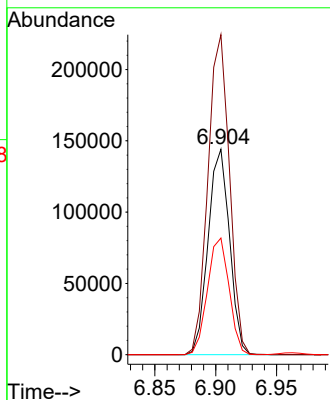
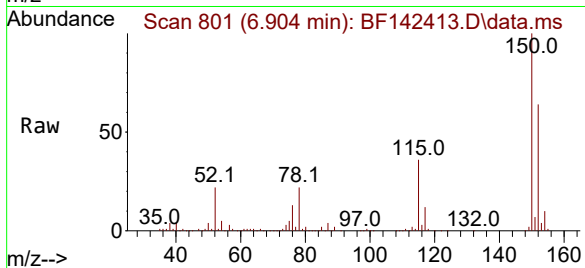




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.904 min Scan# 801
Delta R.T. 0.000 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

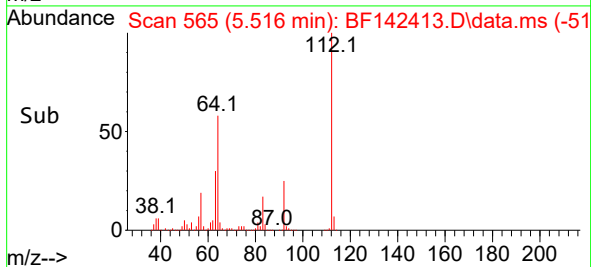
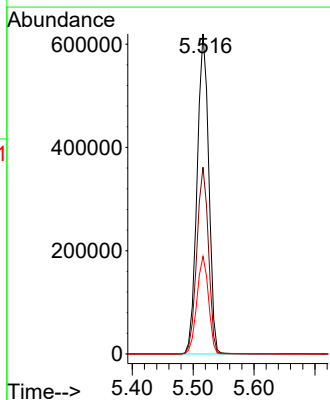
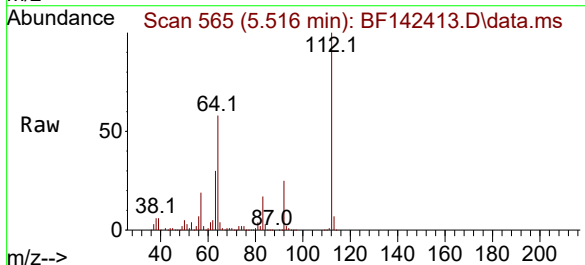
Instrument :
BNA_F
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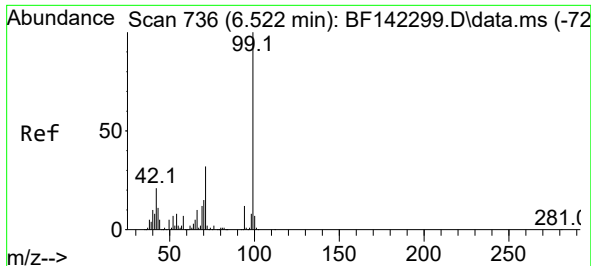
Tgt Ion:152 Resp: 176019
Ion Ratio Lower Upper
152 100
150 155.8 126.6 190.0
115 56.8 47.3 70.9



#5
2-Fluorophenol
Concen: 79.893 ng
RT: 5.516 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Tgt Ion:112 Resp: 823786
Ion Ratio Lower Upper
112 100
64 58.3 48.9 73.3
63 30.5 25.6 38.4

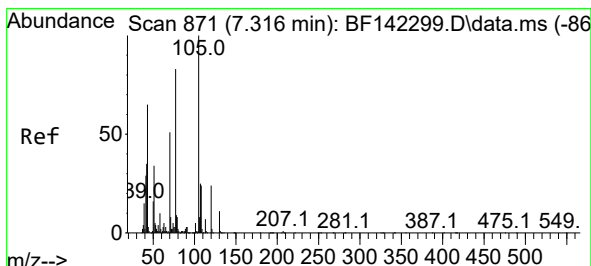
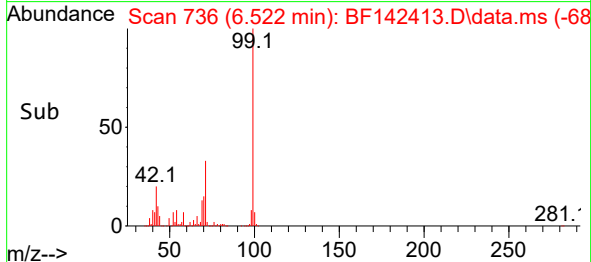
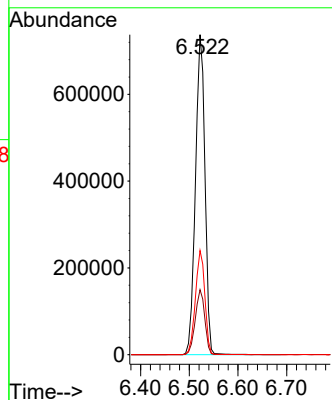
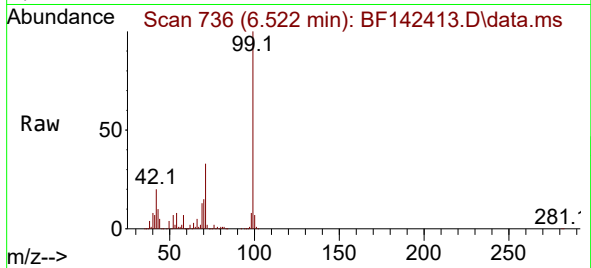




#7
Phenol-d6
Concen: 79.621 ng
RT: 6.522 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

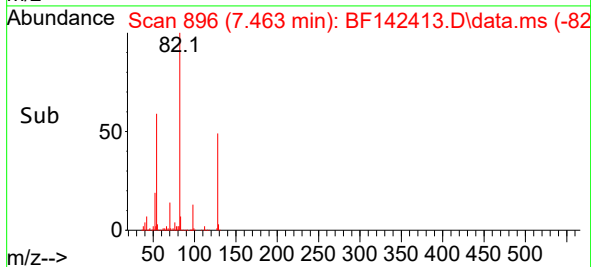
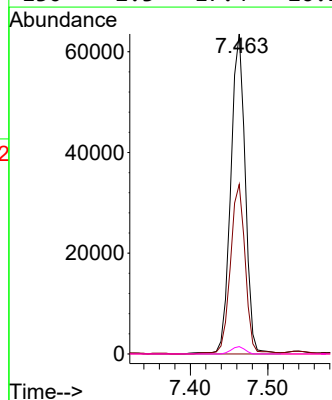
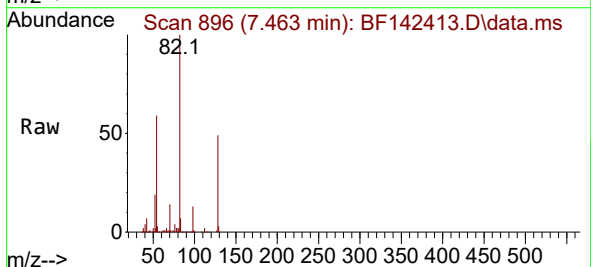
Instrument :
BNA_F
ClientSampleId :
TP-4

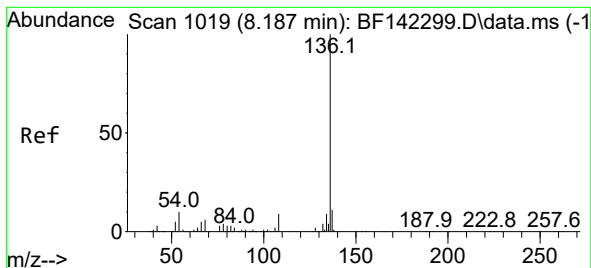
Tgt Ion: 99 Resp: 1009749
Ion Ratio Lower Upper
99 100
42 20.3 17.0 25.4
71 32.6 25.8 38.8



#19
n-Nitroso-di-n-propylamine
Concen: 10.575 ng
RT: 7.463 min Scan# 896
Delta R.T. 0.147 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Tgt Ion: 70 Resp: 82953
Ion Ratio Lower Upper
70 100
42 53.0 54.8 82.2#
101 0.0 7.7 11.5#
130 2.3 17.4 26.2#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.186 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

Tgt Ion:136 Resp: 648776

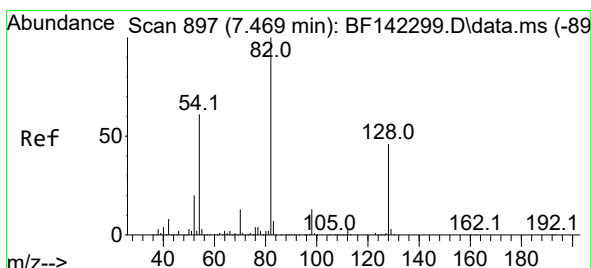
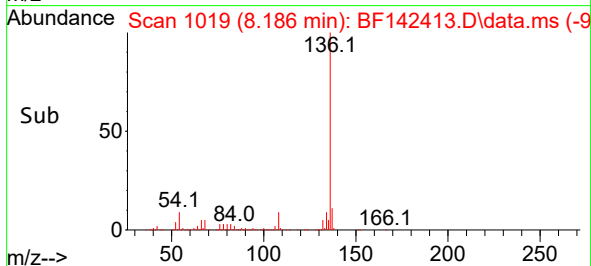
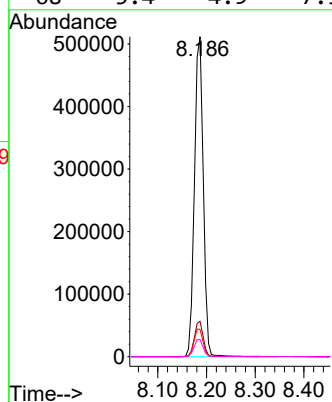
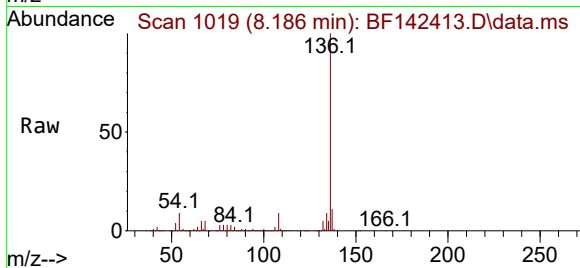
Ion Ratio Lower Upper

136 100

137 11.0 8.9 13.3

54 8.6 7.7 11.5

68 5.4 4.9 7.3



#23

Nitrobenzene-d5

Concen: 56.783 ng

RT: 7.463 min Scan# 896

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

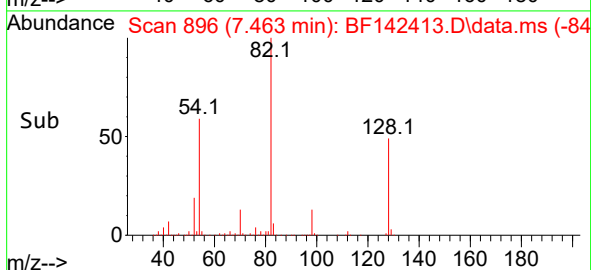
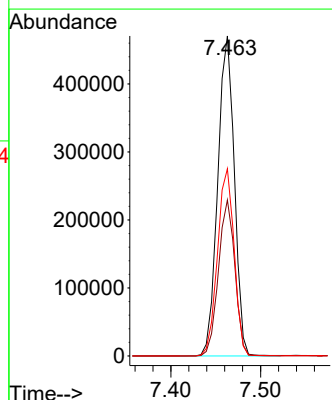
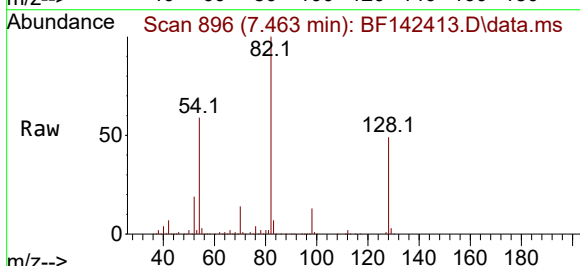
Tgt Ion: 82 Resp: 604051

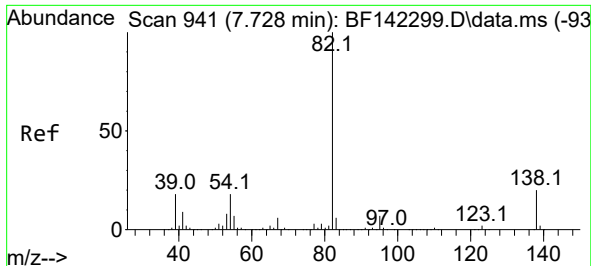
Ion Ratio Lower Upper

82 100

128 48.7 37.0 55.6

54 58.5 48.6 73.0

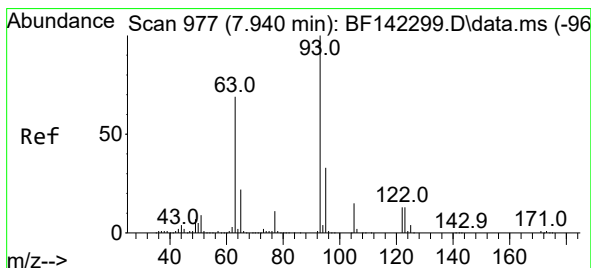
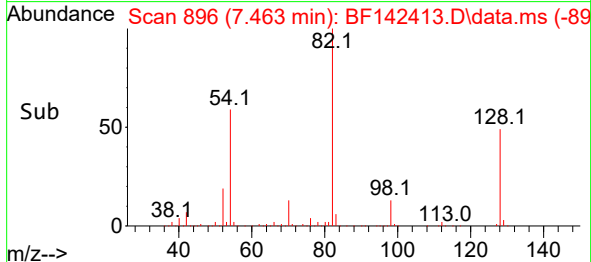
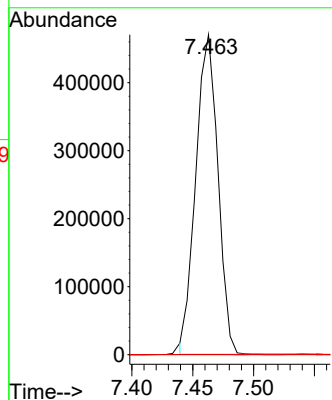
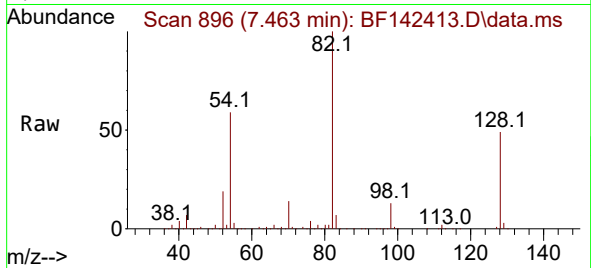




#25
Isophorone
Concen: 29.495 ng
RT: 7.463 min Scan# 896
Delta R.T. -0.265 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

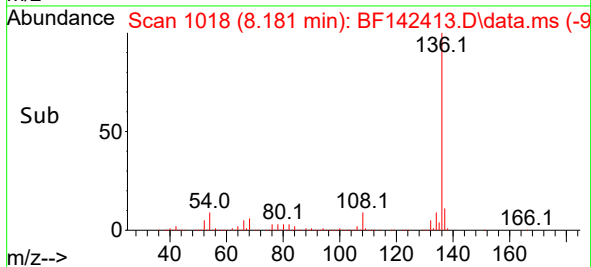
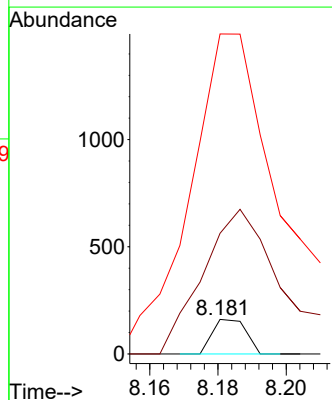
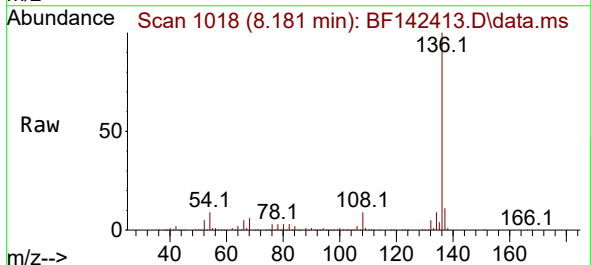
Instrument :
BNA_F
ClientSampleId :
TP-4

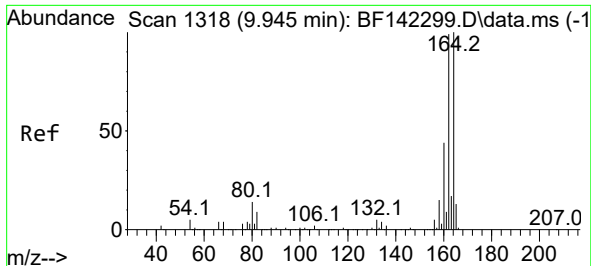
Tgt Ion: 82 Resp: 594153
Ion Ratio Lower Upper
82 100
95 0.1 5.8 8.8#
138 0.0 16.1 24.1#



#32
Benzoic acid
Concen: 6.035 ng
RT: 8.181 min Scan# 1018
Delta R.T. 0.241 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Tgt Ion:122 Resp: 110
Ion Ratio Lower Upper
122 100
105 349.7 97.9 137.9#
77 927.3 67.7 107.7#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.939 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

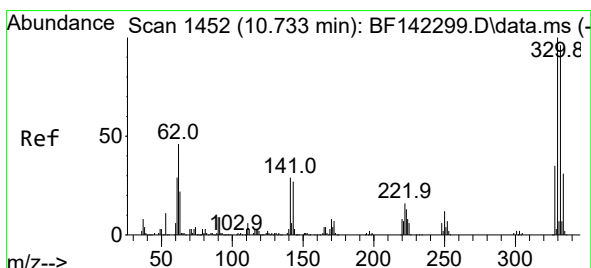
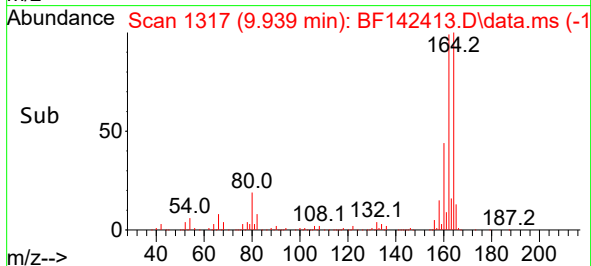
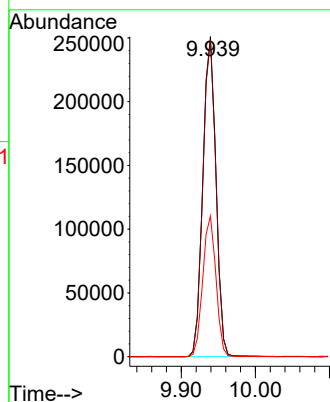
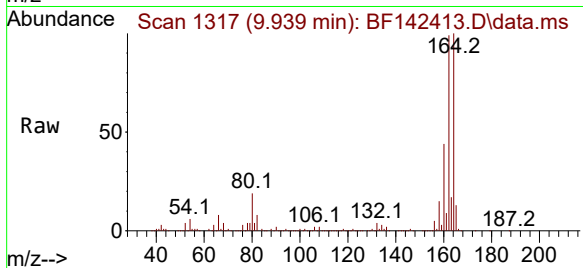
Tgt Ion:164 Resp: 308965

Ion Ratio Lower Upper

164 100

162 98.8 79.2 118.8

160 43.9 35.3 52.9



#42

2,4,6-Tribromophenol

Concen: 79.596 ng

RT: 10.727 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

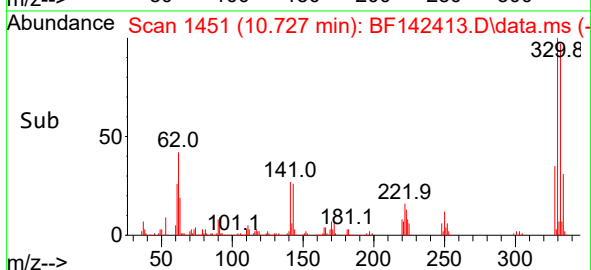
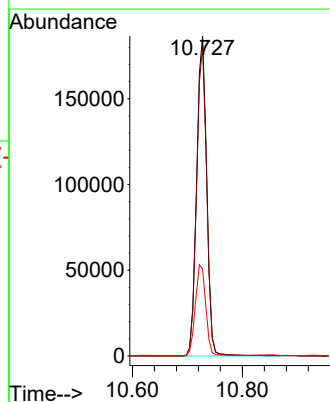
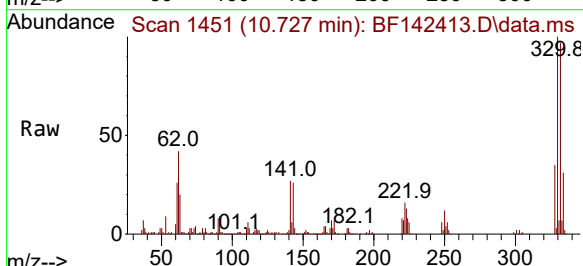
Tgt Ion:330 Resp: 237436

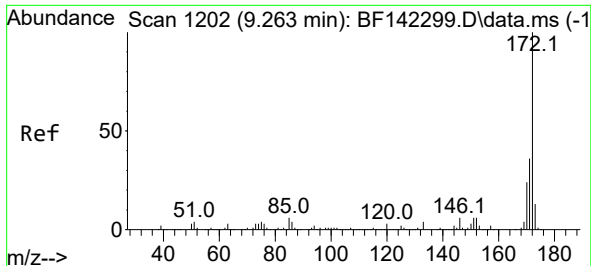
Ion Ratio Lower Upper

330 100

332 96.7 76.8 115.2

141 29.0 24.9 37.3

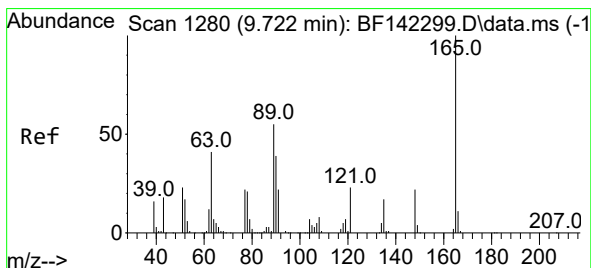
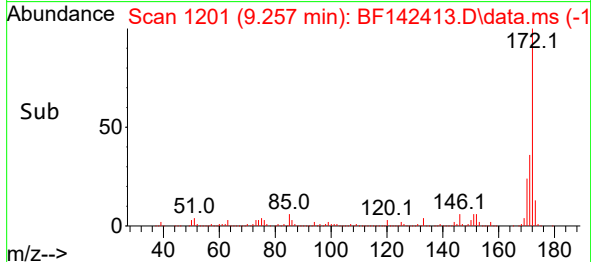
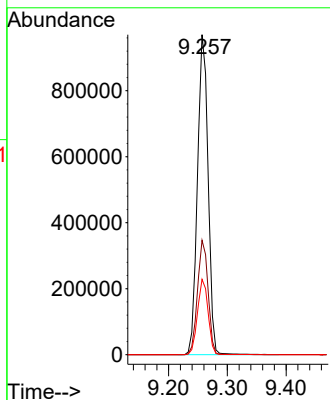
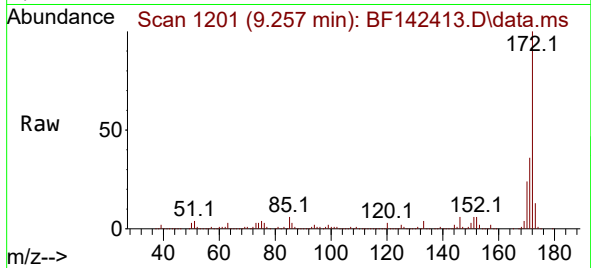




#45
2-Fluorobiphenyl
Concen: 56.222 ng
RT: 9.257 min Scan# 1317
Delta R.T. -0.006 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

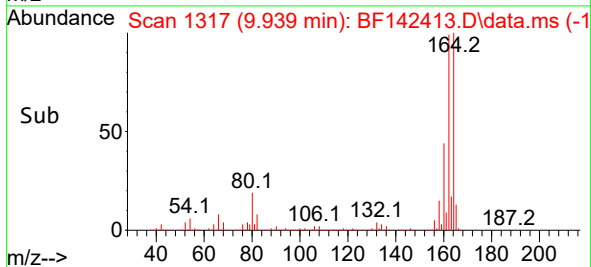
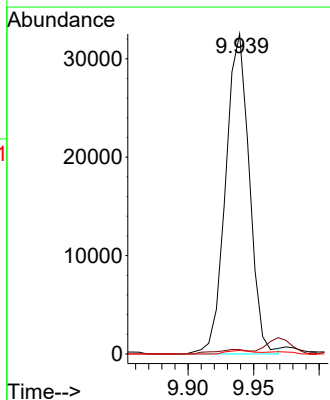
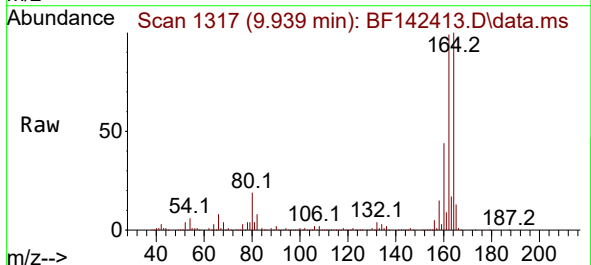
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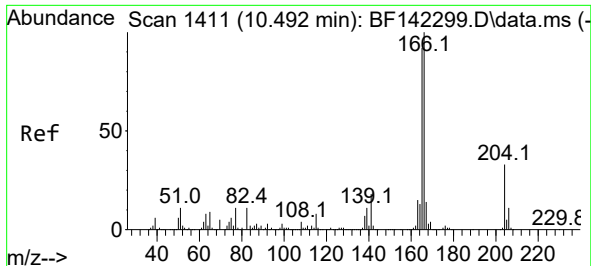
Tgt Ion:172 Resp: 1218248
Ion Ratio Lower Upper
172 100
171 35.7 28.6 42.8
170 23.6 19.0 28.4



#51
2,6-Dinitrotoluene
Concen: 10.998 ng
RT: 9.939 min Scan# 1317
Delta R.T. 0.218 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Tgt Ion:165 Resp: 40842
Ion Ratio Lower Upper
165 100
63 1.4 49.5 74.3#
89 1.1 44.6 66.8#

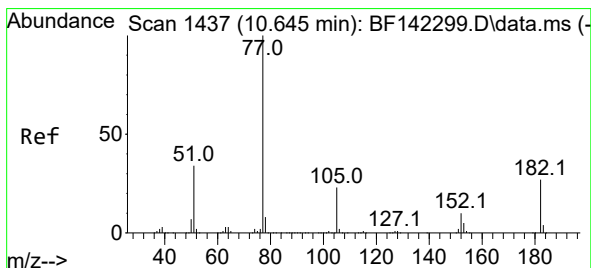
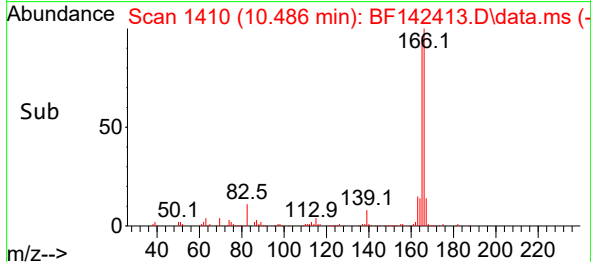
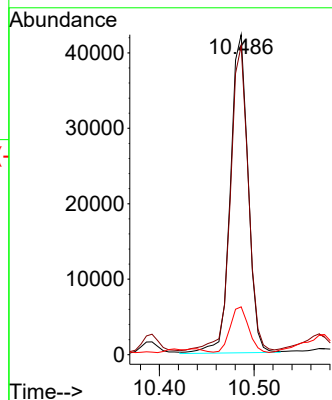
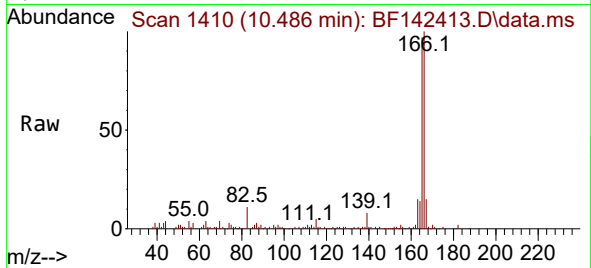




#58
Fluorene
Concen: 2.753 ng
RT: 10.486 min Scan# 1411
Delta R.T. -0.006 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

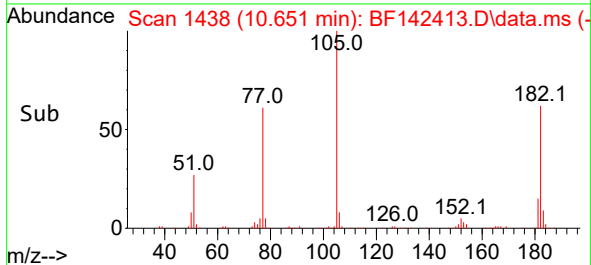
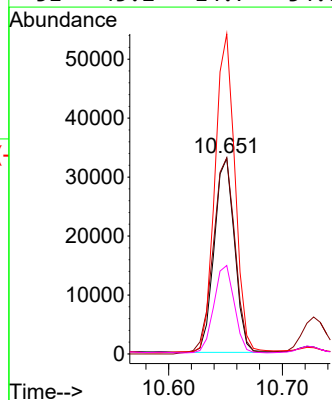
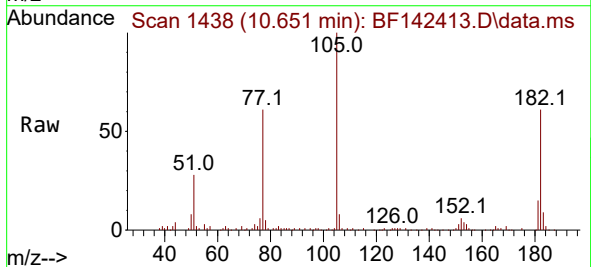
Instrument :
BNA_F
ClientSampleId :
TP-4

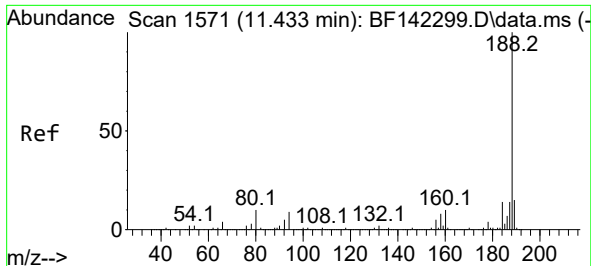
Tgt Ion:166 Resp: 54944
Ion Ratio Lower Upper
166 100
165 96.5 74.0 111.0
167 15.0 10.9 16.3



#63
Azobenzene
Concen: 2.166 ng
RT: 10.651 min Scan# 1438
Delta R.T. 0.006 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Tgt Ion: 77 Resp: 41006
Ion Ratio Lower Upper
77 100
182 100.3 6.9 46.9#
105 163.6 2.7 42.7#
51 45.2 14.7 54.7

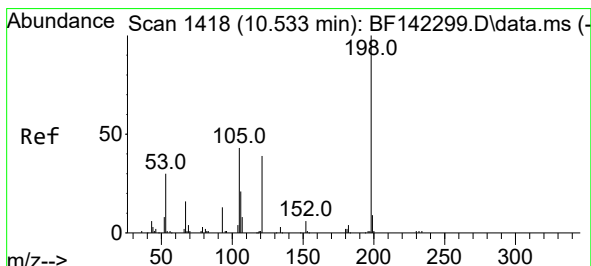
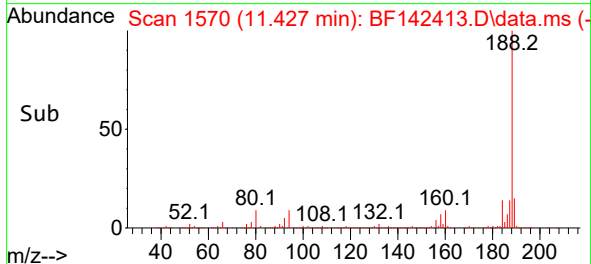
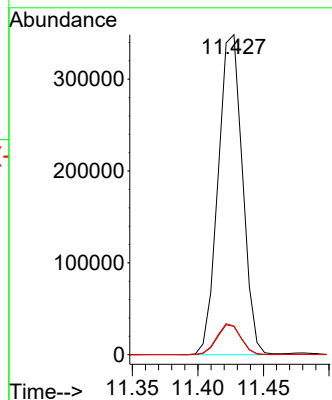
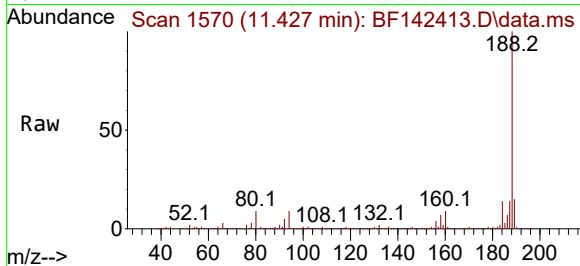




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

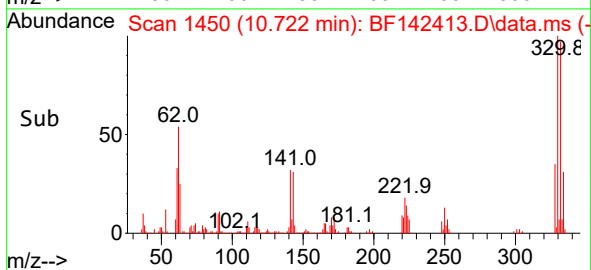
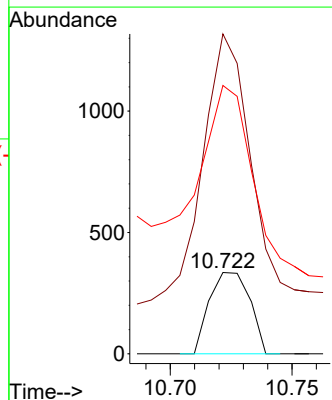
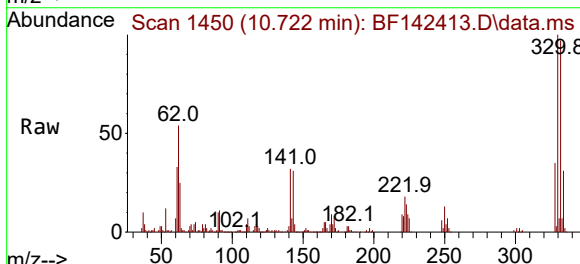
Instrument :
BNA_F
ClientSampleId :
TP-4

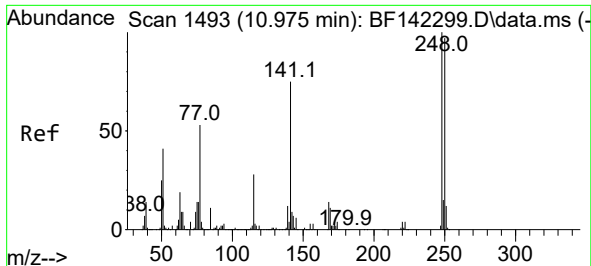
Tgt Ion:188 Resp: 449574
Ion Ratio Lower Upper
188 100
94 8.9 7.5 11.3
80 8.9 7.9 11.9



#65
4,6-Dinitro-2-methylphenol
Concen: 7.342 ng
RT: 10.722 min Scan# 1450
Delta R.T. 0.189 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Tgt Ion:198 Resp: 388
Ion Ratio Lower Upper
198 100
51 393.4 32.9 72.9#
105 330.1 23.7 63.7#





#67

4-Bromophenyl-phenylether

Concen: 2.860 ng

RT: 10.727 min Scan# 1493

Delta R.T. -0.247 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

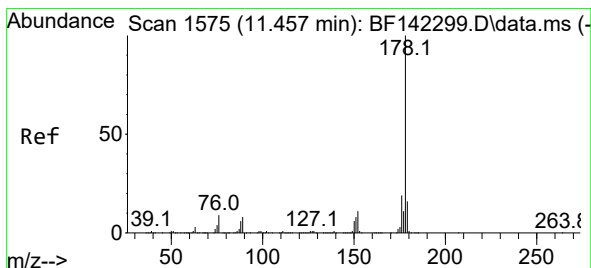
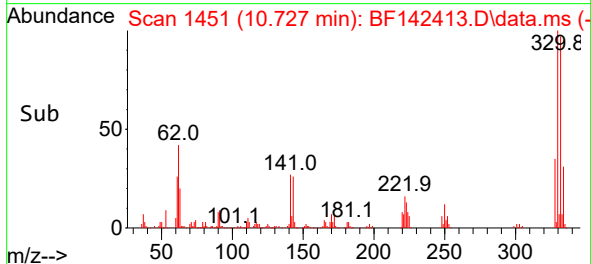
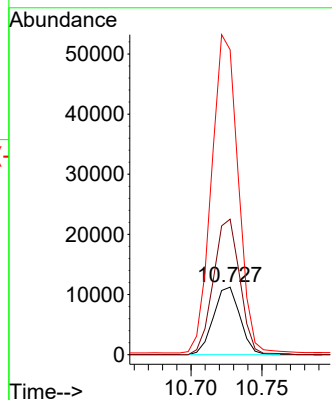
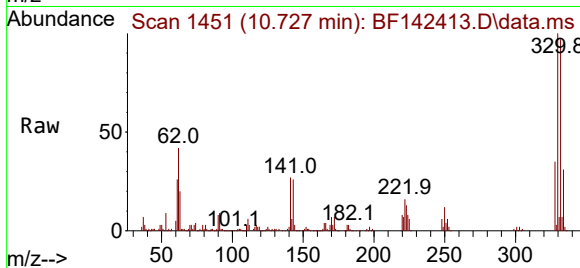
Tgt Ion:248 Resp: 14574

Ion Ratio Lower Upper

248 100

250 200.7 77.9 116.9#

141 451.7 59.8 89.8#



#71

Phenanthrene

Concen: 6.063 ng

RT: 11.451 min Scan# 1574

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

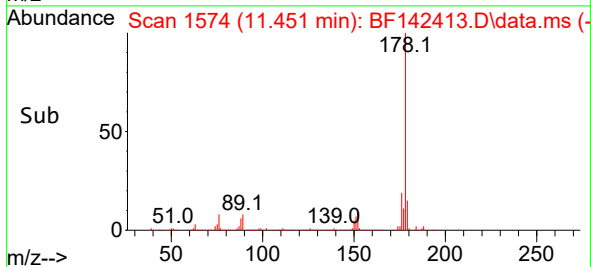
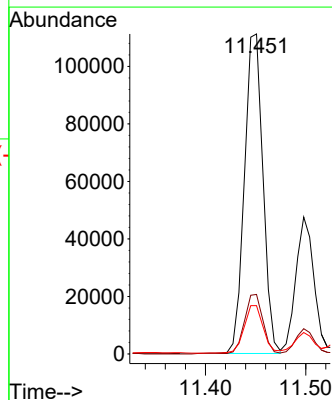
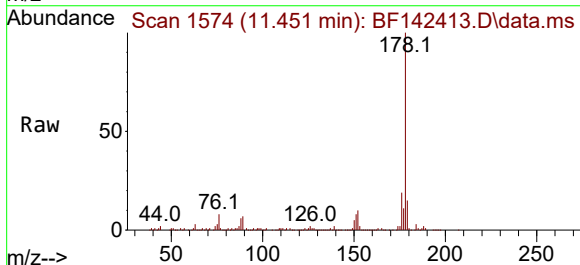
Tgt Ion:178 Resp: 142883

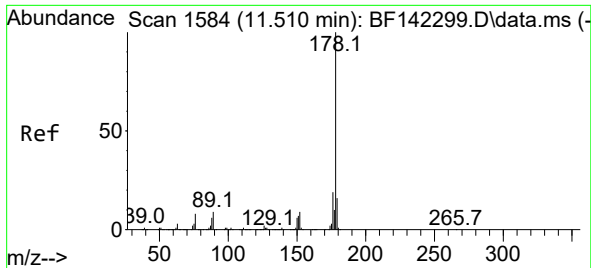
Ion Ratio Lower Upper

178 100

176 18.6 15.5 23.3

179 15.1 12.6 18.8

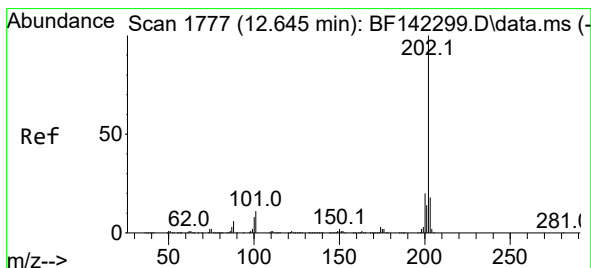
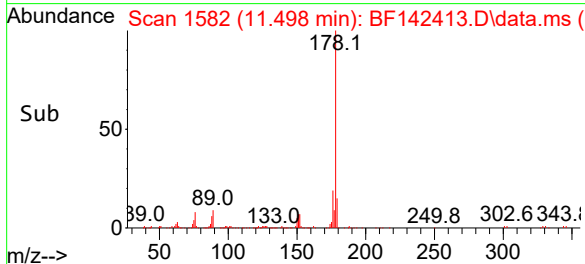
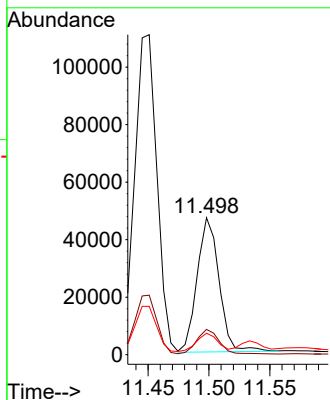
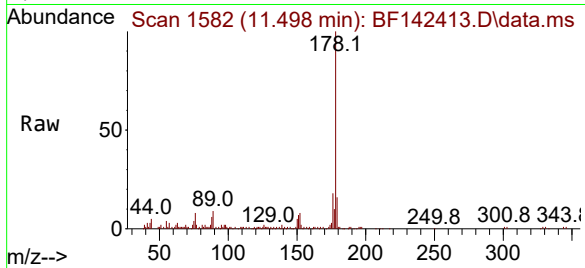




#72
 Anthracene
 Concen: 2.436 ng
 RT: 11.498 min Scan# 1149
 Delta R.T. -0.012 min
 Lab File: BF142413.D
 Acq: 16 May 2025 01:27

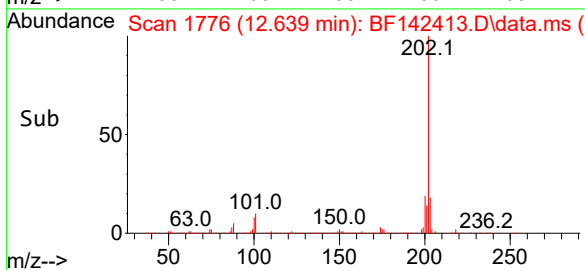
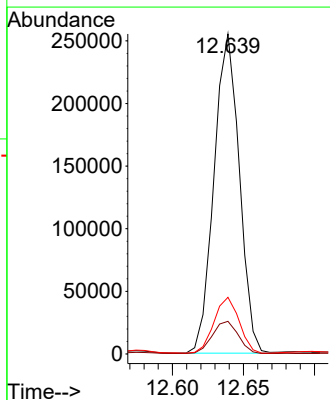
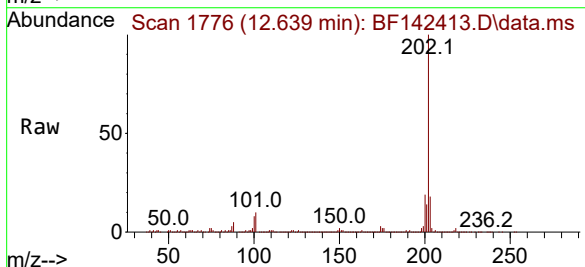
Instrument :
 BNA_F
 ClientSampleId :
 TP-4

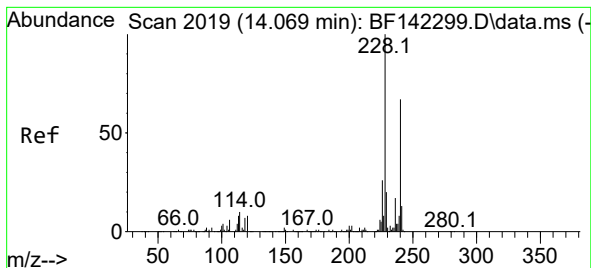
Tgt Ion:178 Resp: 58980
 Ion Ratio Lower Upper
 178 100
 176 18.5 15.3 22.9
 179 15.6 12.6 18.8



#75
 Fluoranthene
 Concen: 13.413 ng
 RT: 12.639 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF142413.D
 Acq: 16 May 2025 01:27

Tgt Ion:202 Resp: 315974
 Ion Ratio Lower Upper
 202 100
 101 10.2 0.0 31.4
 203 17.7 0.0 37.9





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.068 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

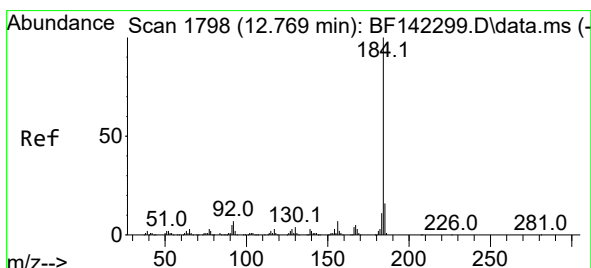
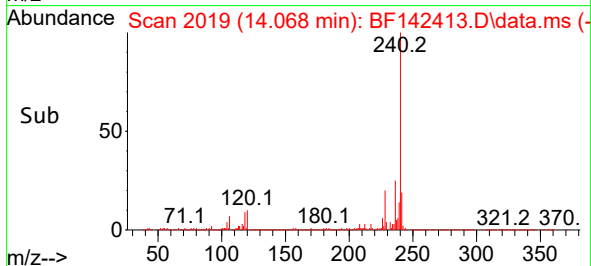
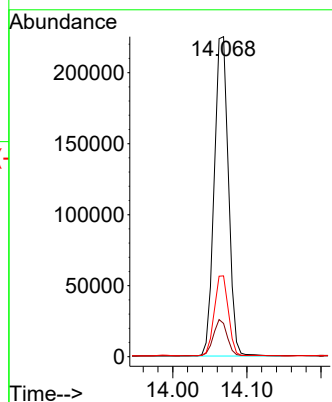
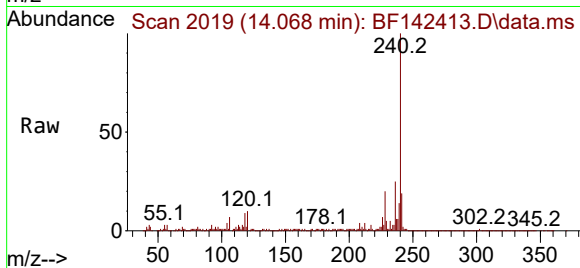
Tgt Ion:240 Resp: 299172

Ion Ratio Lower Upper

240 100

120 10.4 9.7 14.5

236 25.3 20.0 30.0



#77

Benzidine

Concen: 2.290 ng

RT: 13.010 min Scan# 1839

Delta R.T. 0.241 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

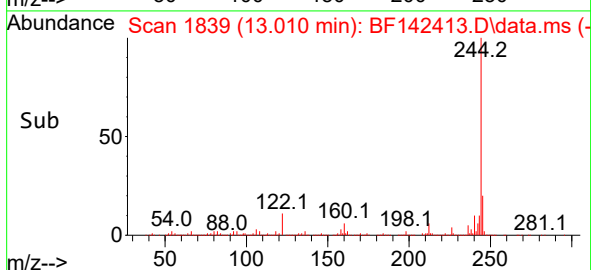
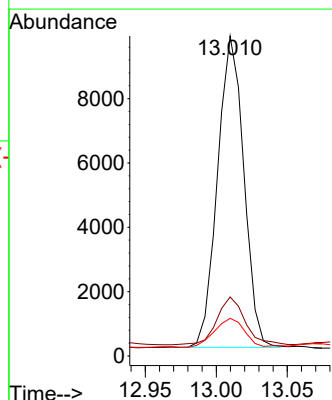
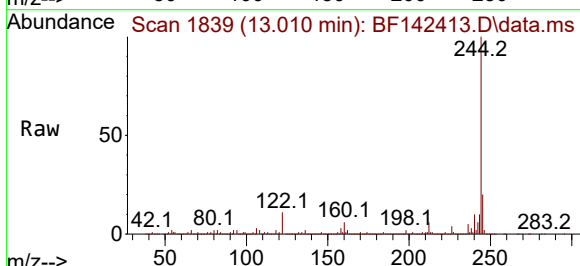
Tgt Ion:184 Resp: 12448

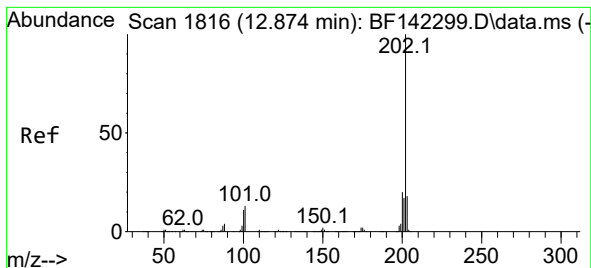
Ion Ratio Lower Upper

184 100

185 18.5 12.6 18.8

183 11.8 8.6 12.8





#78

Pyrene

Concen: 11.911 ng

RT: 12.869 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

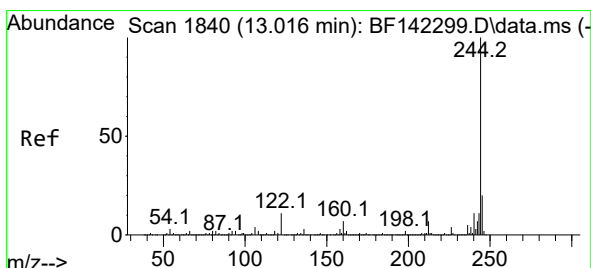
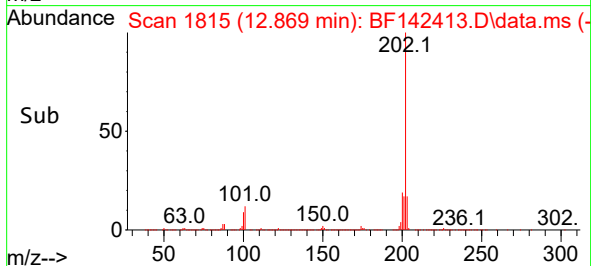
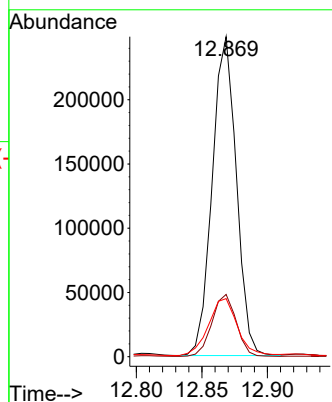
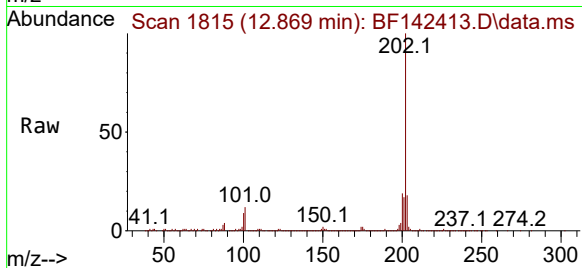
Tgt Ion:202 Resp: 317180

Ion Ratio Lower Upper

202 100

200 19.4 16.2 24.4

203 18.1 14.3 21.5



#79

Terphenyl-d14

Concen: 50.109 ng

RT: 13.010 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

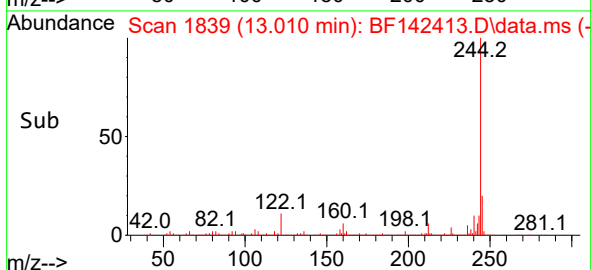
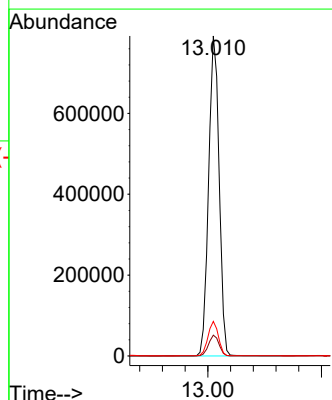
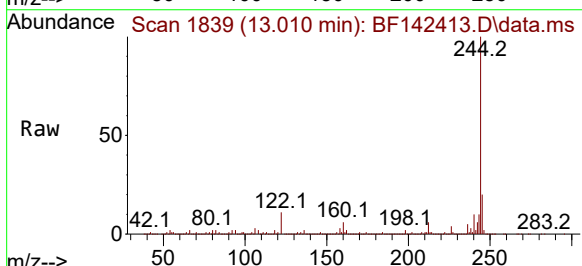
Tgt Ion:244 Resp: 1012854

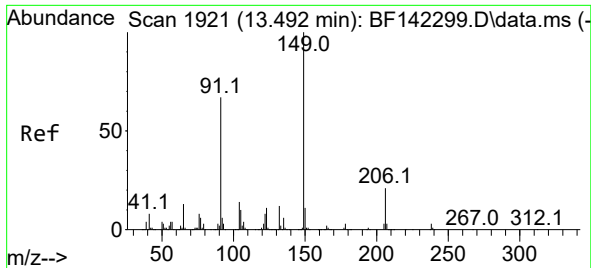
Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.2

122 10.8 9.0 13.4

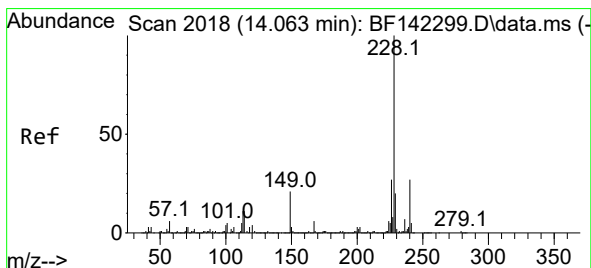
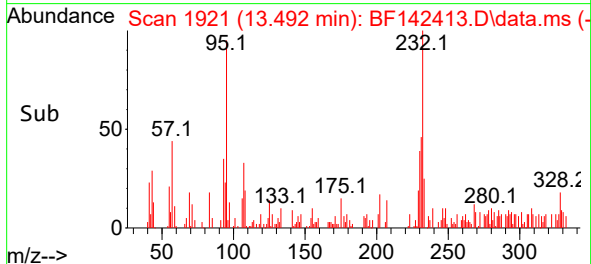
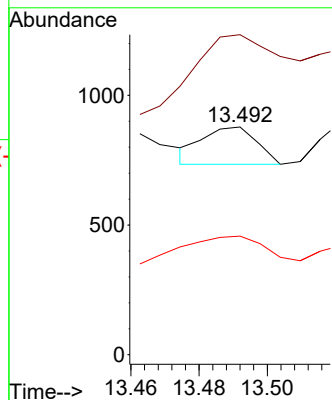
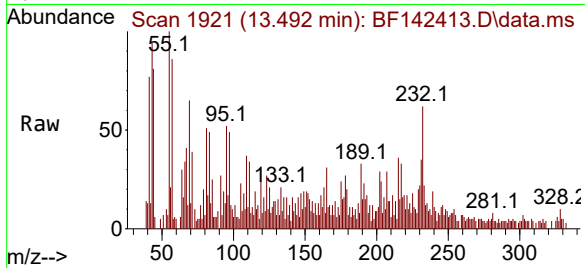




#80
Butylbenzylphthalate
Concen: 3.678 ng
RT: 13.492 min Scan# 1921
Delta R.T. 0.000 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

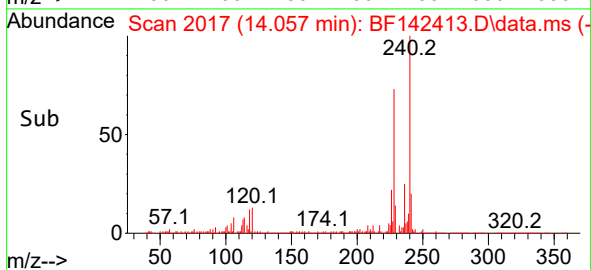
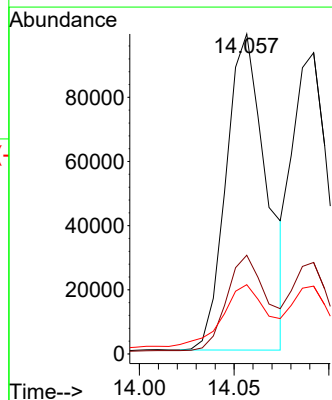
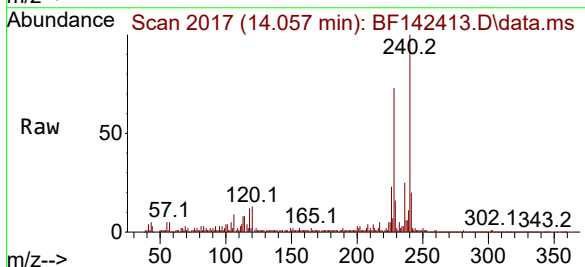
Instrument :
BNA_F
ClientSampleId :
TP-4

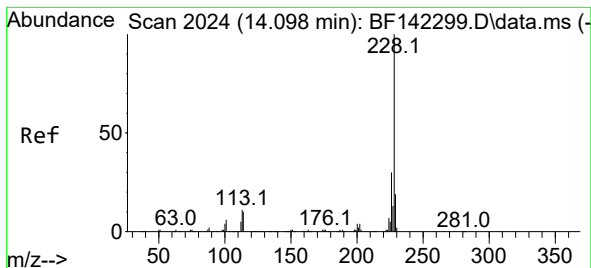
Tgt Ion:149 Resp: 158
Ion Ratio Lower Upper
149 100
91 140.5 53.8 80.6#
206 52.1 16.6 24.8#



#81
Benzo(a)anthracene
Concen: 7.523 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF142413.D
Acq: 16 May 2025 01:27

Tgt Ion:228 Resp: 145763
Ion Ratio Lower Upper
228 100
226 30.8 21.5 32.3
229 21.7 15.9 23.9





#83

Chrysene

Concen: 6.697 ng

RT: 14.092 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

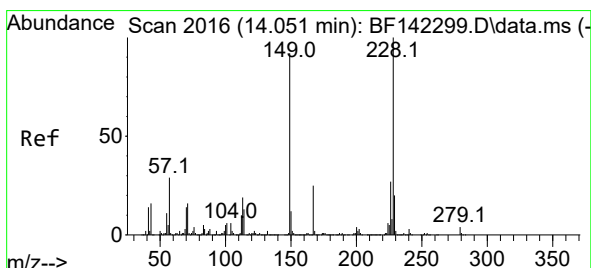
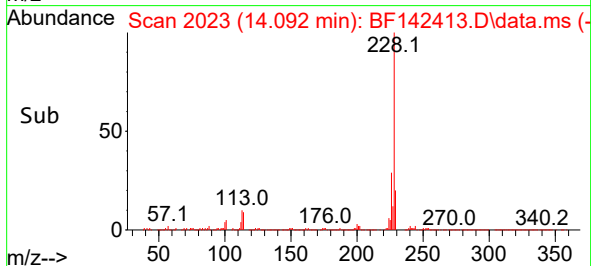
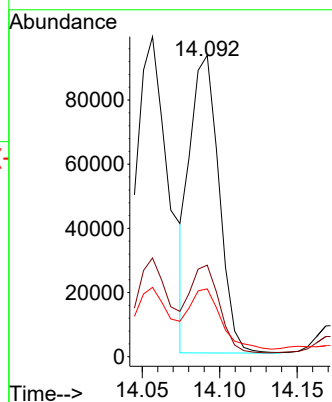
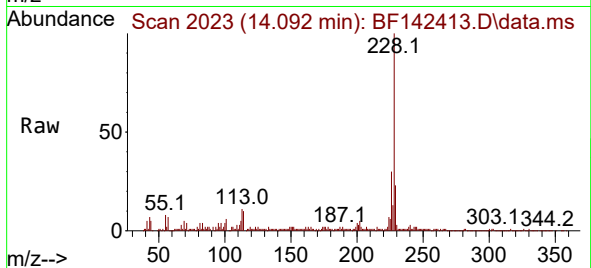
Tgt Ion:228 Resp: 120799

Ion Ratio Lower Upper

228 100

226 30.4 23.9 35.9

229 22.5 15.4 23.2



#84

Bis(2-ethylhexyl)phthalate

Concen: 4.710 ng

RT: 14.045 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

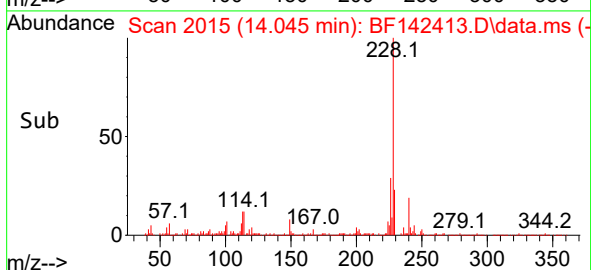
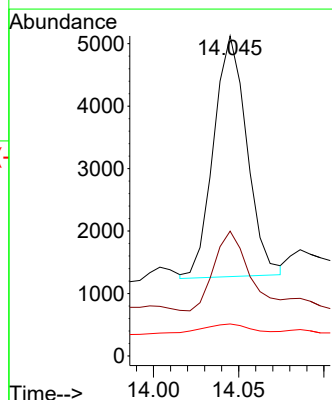
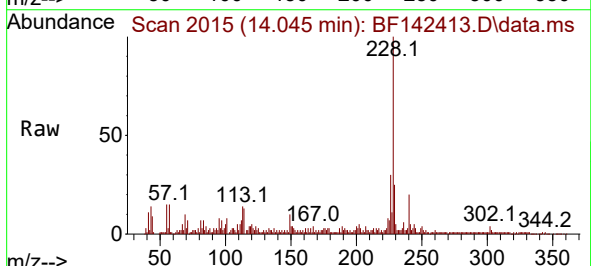
Tgt Ion:149 Resp: 5250

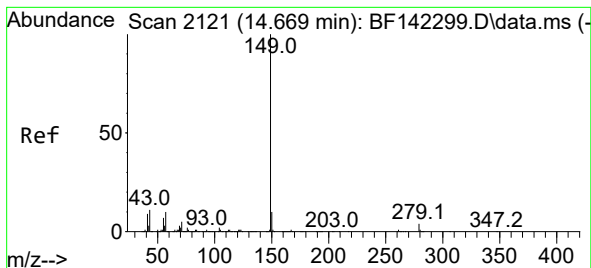
Ion Ratio Lower Upper

149 100

167 39.0 22.0 33.0#

279 10.0 3.0 4.6#





#85

Di-n-octyl phthalate

Concen: 7.910 ng

RT: 14.692 min Scan# 2125

Delta R.T. 0.023 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

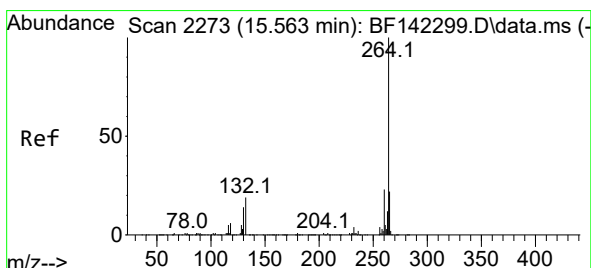
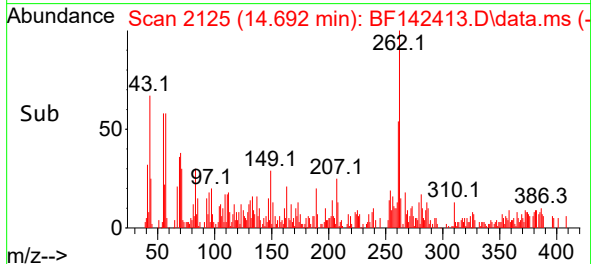
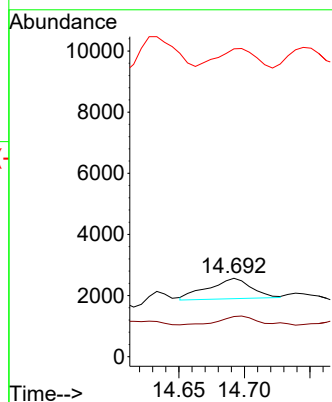
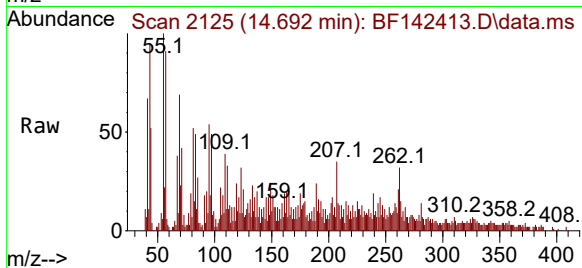
Tgt Ion:149 Resp: 1542

Ion Ratio Lower Upper

149 100

167 40.9 1.1 1.7#

43 0.0 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: BF142413.D

Acq: 16 May 2025 01:27

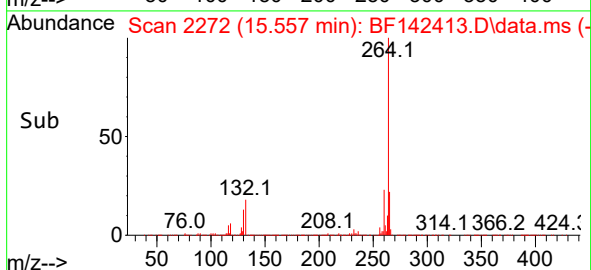
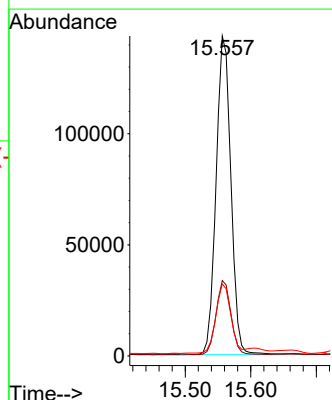
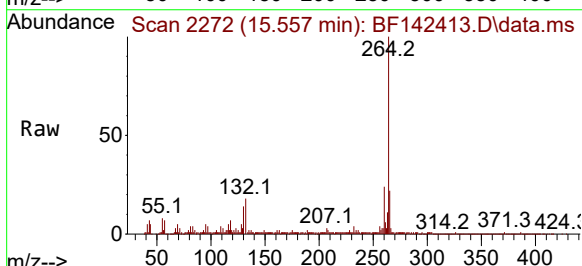
Tgt Ion:264 Resp: 224973

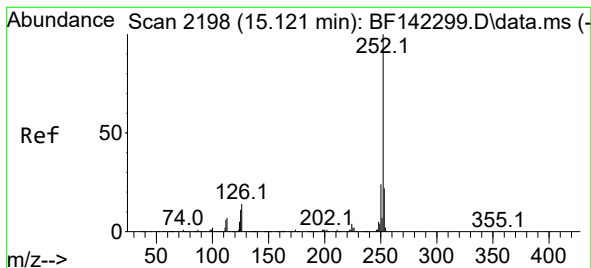
Ion Ratio Lower Upper

264 100

260 23.5 18.6 27.8

265 22.5 17.5 26.3





#88

Benzo(b)fluoranthene

Concen: 12.397 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.000 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

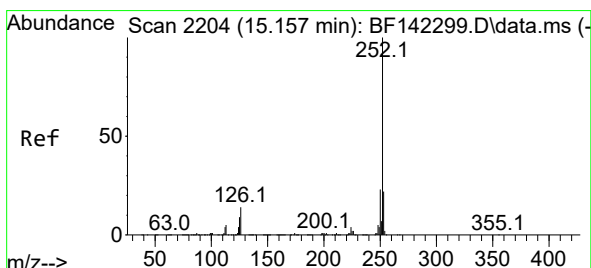
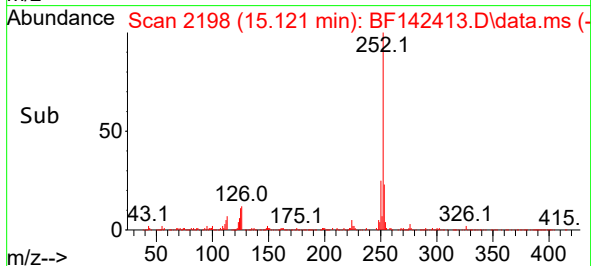
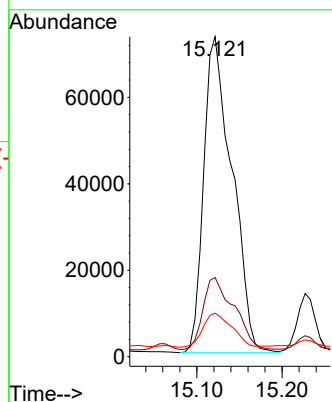
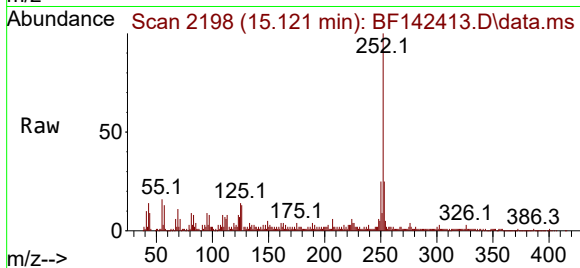
Tgt Ion:252 Resp: 168923

Ion Ratio Lower Upper

252 100

253 24.8 17.7 26.5

125 13.6 8.7 13.1#



#89

Benzo(k)fluoranthene

Concen: 13.547 ng

RT: 15.121 min Scan# 2198

Delta R.T. -0.035 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

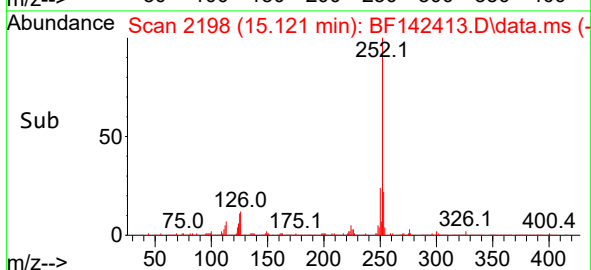
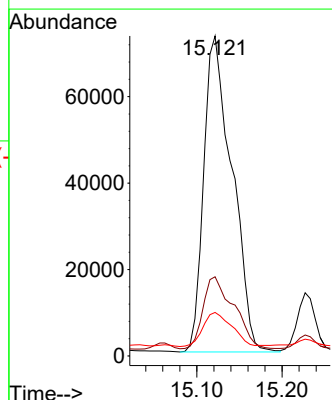
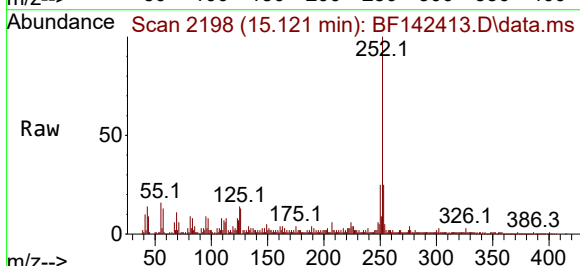
Tgt Ion:252 Resp: 168923

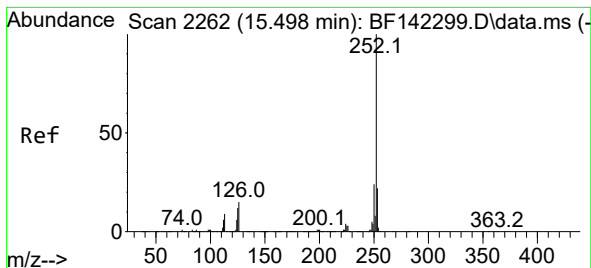
Ion Ratio Lower Upper

252 100

253 24.8 17.6 26.4

125 13.6 8.1 12.1#





#90

Benzo(a)pyrene

Concen: 7.404 ng

RT: 15.492 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Instrument :

BNA_F

ClientSampleId :

TP-4

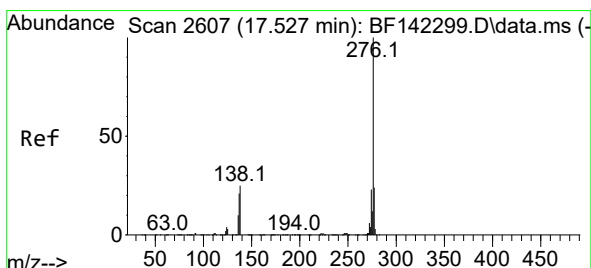
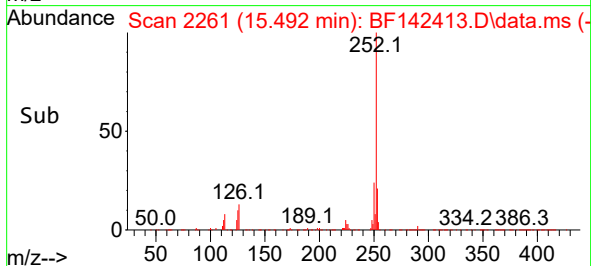
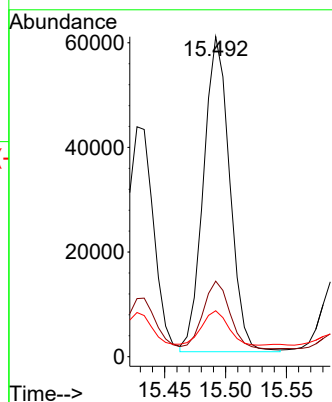
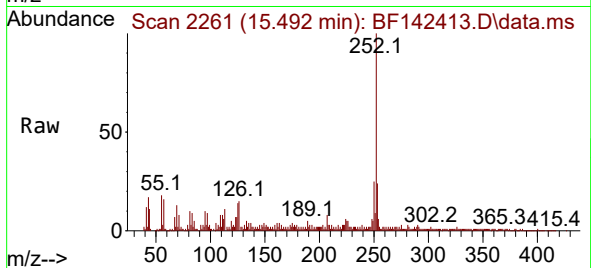
Tgt Ion:252 Resp: 90398

Ion Ratio Lower Upper

252 100

253 23.6 17.8 26.6

125 14.3 9.4 14.0#



#92

Benzo(g,h,i)perylene

Concen: 3.713 ng

RT: 17.515 min Scan# 2605

Delta R.T. -0.012 min

Lab File: BF142413.D

Acq: 16 May 2025 01:27

Tgt Ion:276 Resp: 47644

Ion Ratio Lower Upper

276 100

277 27.5 19.0 28.6

138 25.2 19.8 29.6

