

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF072525\
 Data File : BF143249.D
 Acq On : 25 Jul 2025 14:18
 Operator : RC/JU
 Sample : Q2687-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-251

Quant Time: Jul 25 14:44:45 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

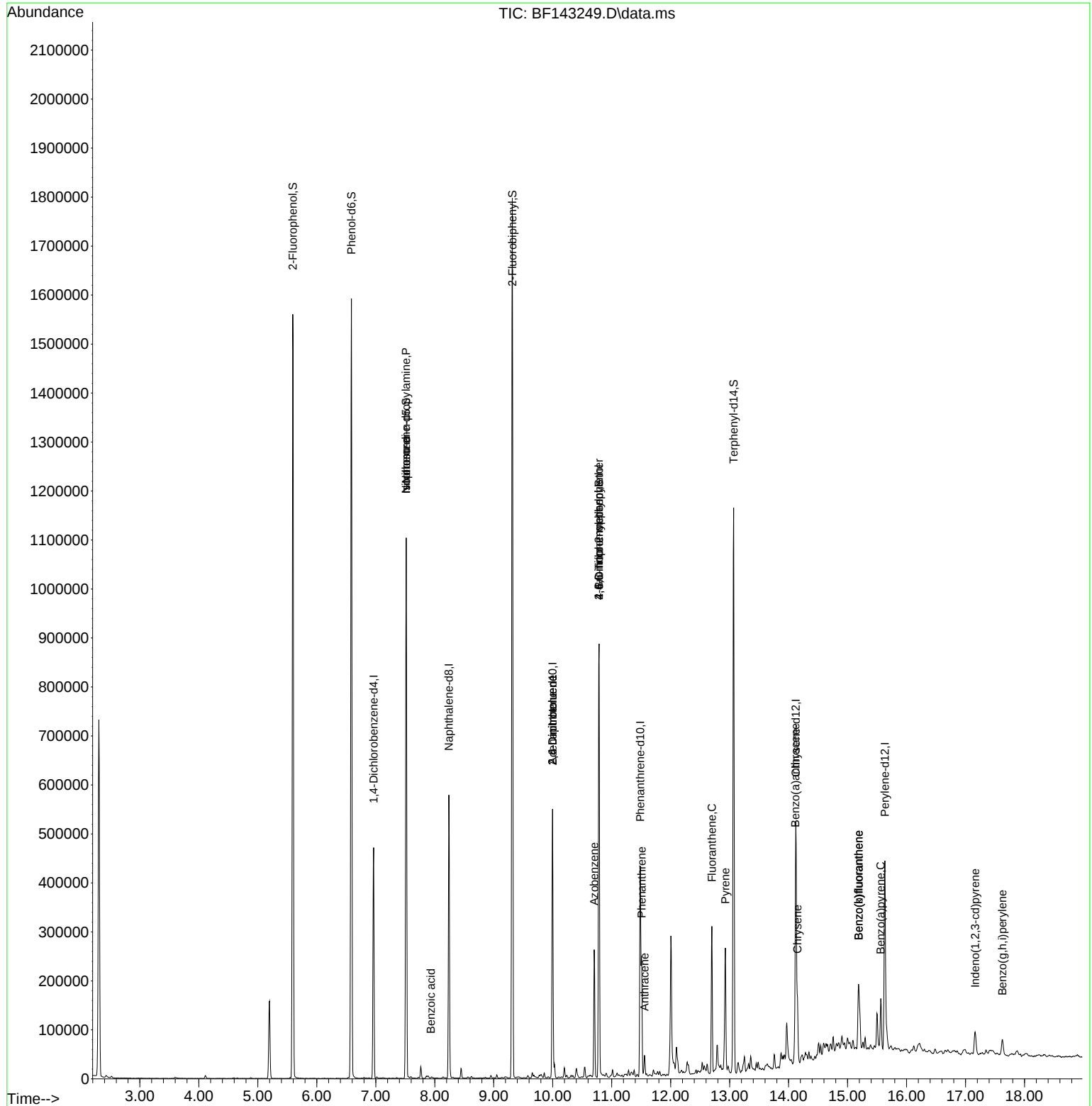
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	95529	20.000	ng	0.00
21) Naphthalene-d8	8.239	136	346905	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	155782	20.000	ng	0.00
64) Phenanthrene-d10	11.486	188	218705	20.000	ng	0.00
76) Chrysene-d12	14.121	240	185787	20.000	ng	0.00
86) Perylene-d12	15.633	264	224377	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.592	112	571201	94.621	ng	0.00
7) Phenol-d6	6.587	99	725768	95.517	ng	0.00
23) Nitrobenzene-d5	7.516	82	469427	67.452	ng	0.00
42) 2,4,6-Tribromophenol	10.786	330	149945	93.173	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	769742	67.576	ng	0.00
79) Terphenyl-d14	13.068	244	546301	43.757	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.516	70	65327	13.401	ng	# 78
25) Isophorone	7.516	82	466733	37.990	ng	# 66
32) Benzoic acid	7.934	122	284	5.256	ng	# 81
51) 2,6-Dinitrotoluene	9.998	165	20404	9.878	ng	# 22
57) 2,4-Dinitrotoluene	9.998	165	20404	7.873	ng	# 21
63) Azobenzene	10.704	77	62505	5.975	ng	# 1
65) 4,6-Dinitro-2-methylph...	10.786	198	305	5.648	ng	# 1
67) 4-Bromophenyl-phenylether	10.786	248	9583	3.677	ng	# 1
71) Phenanthrene	11.510	178	122236	10.526	ng	100
72) Anthracene	11.557	178	23740	2.004	ng	98
75) Fluoranthene	12.698	202	165208	15.500	ng	98
78) Pyrene	12.927	202	142508	8.988	ng	99
81) Benzo(a)anthracene	14.115	228	81801	6.576	ng	98
83) Chrysene	14.151	228	65367	5.845	ng	98
87) Indeno(1,2,3-cd)pyrene	17.162	276	32374	2.046	ng	96
88) Benzo(b)fluoranthene	15.186	252	119555	8.722	ng	97
89) Benzo(k)fluoranthene	15.186	252	119555	9.774	ng	98
90) Benzo(a)pyrene	15.562	252	61892	4.901	ng	97
92) Benzo(g,h,i)perylene	17.627	276	29199	2.344	ng	98

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

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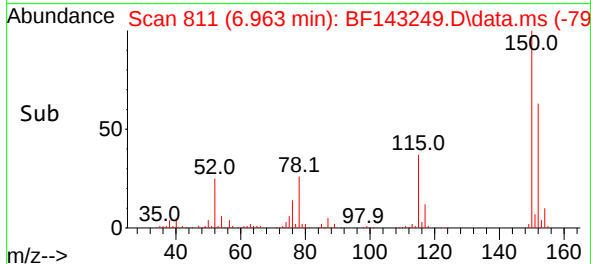
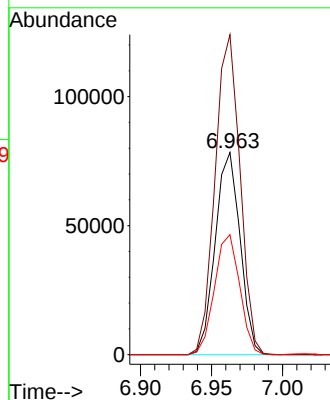
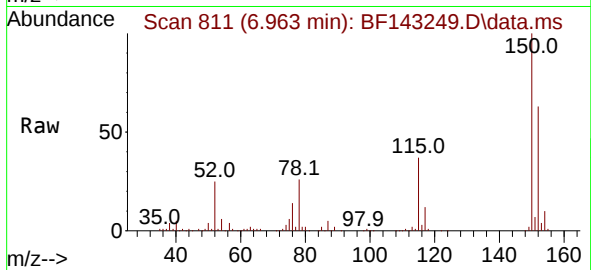




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. -0.000 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

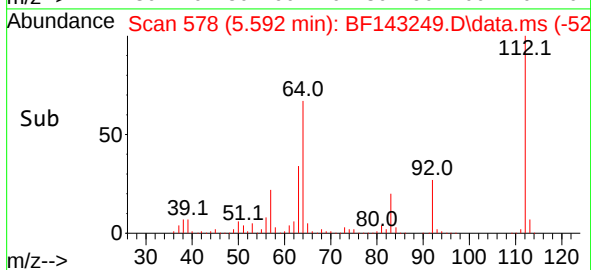
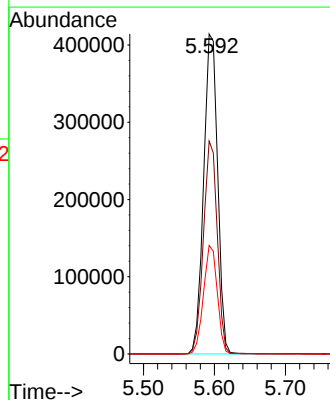
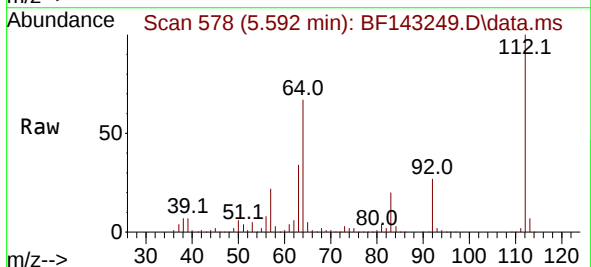
Instrument :
BNA_F
ClientSampleId :
VNJ-251

Tgt Ion:152 Resp: 95529
Ion Ratio Lower Upper
152 100
150 158.2 128.2 192.4
115 59.3 47.9 71.9



#5
2-Fluorophenol
Concen: 94.621 ng
RT: 5.592 min Scan# 578
Delta R.T. 0.006 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

Tgt Ion:112 Resp: 571201
Ion Ratio Lower Upper
112 100
64 66.6 53.1 79.7
63 33.9 26.6 40.0

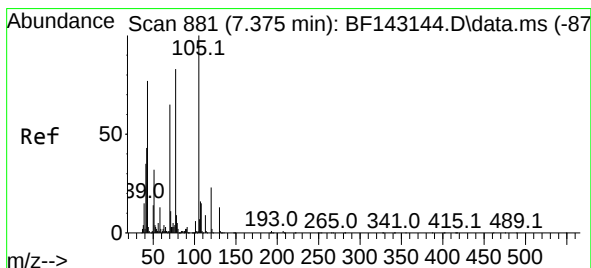
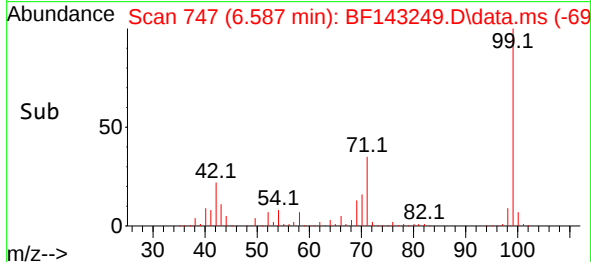
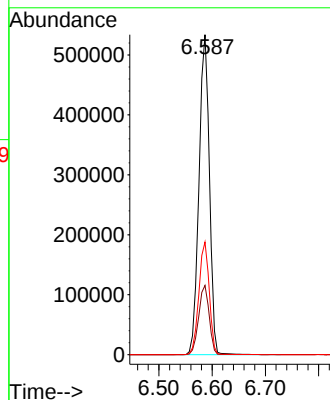
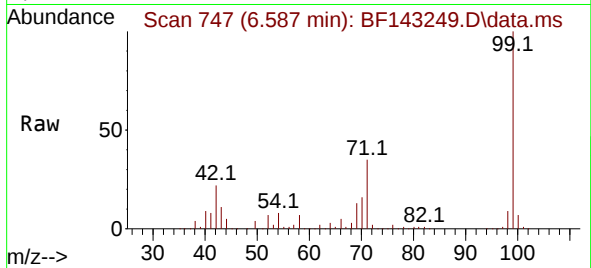




#7
Phenol-d6
Concen: 95.517 ng
RT: 6.587 min Scan# 74
Delta R.T. -0.000 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

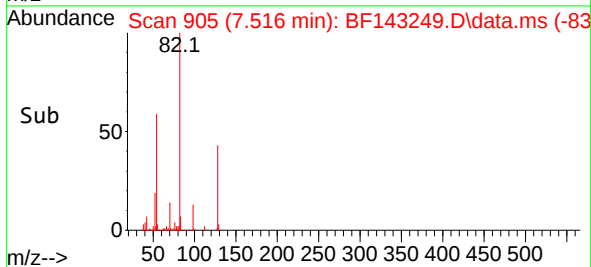
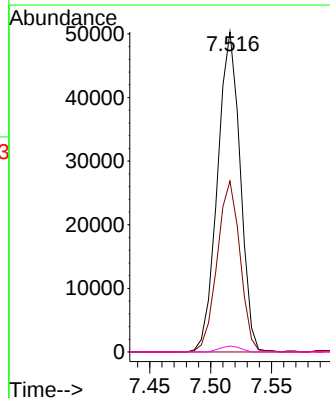
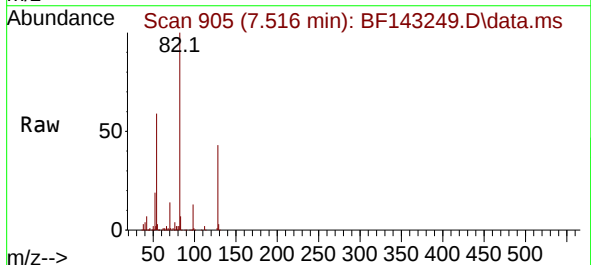
Instrument :
BNA_F
ClientSampleId :
VNJ-251

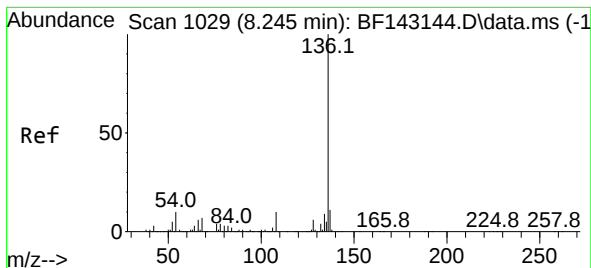
Tgt Ion: 99 Resp: 725768
Ion Ratio Lower Upper
99 100
42 21.7 17.0 25.6
71 35.2 27.7 41.5



#19
n-Nitroso-di-n-propylamine
Concen: 13.401 ng
RT: 7.516 min Scan# 905
Delta R.T. 0.141 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

Tgt Ion: 70 Resp: 65327
Ion Ratio Lower Upper
70 100
42 53.4 52.5 78.7
101 0.0 7.6 11.4#
130 1.8 16.1 24.1#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.239 min Scan# 1028

Delta R.T. -0.006 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

Tgt Ion:136 Resp: 346905

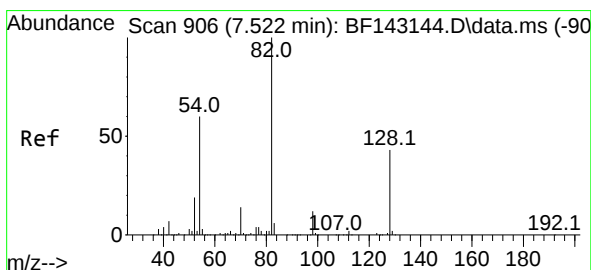
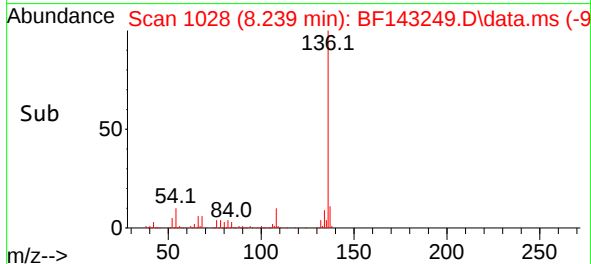
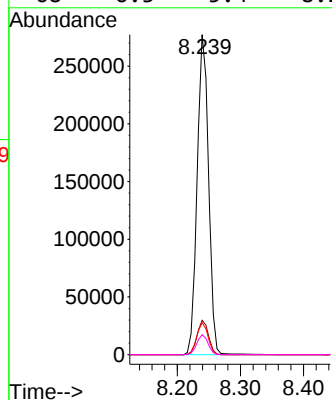
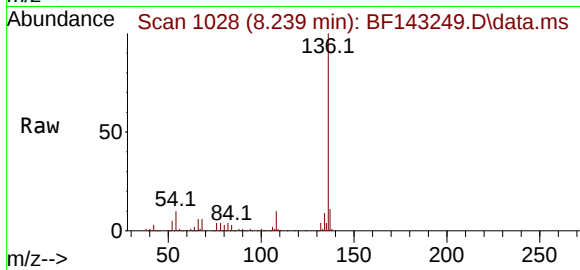
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 10.0 8.2 12.2

68 6.3 5.4 8.2



#23

Nitrobenzene-d5

Concen: 67.452 ng

RT: 7.516 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

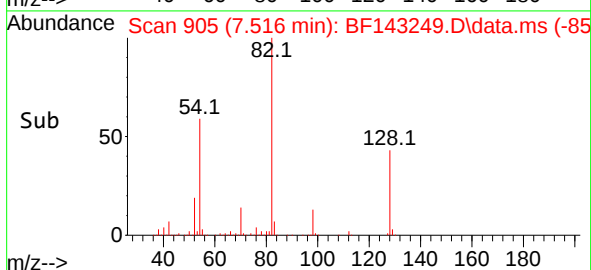
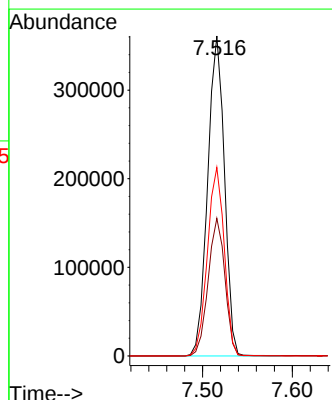
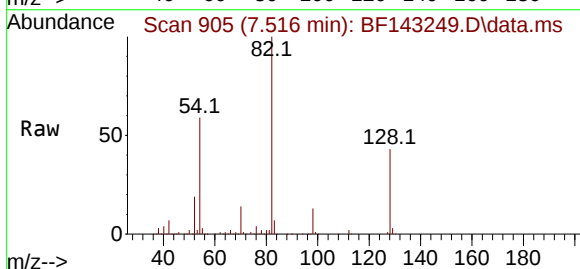
Tgt Ion: 82 Resp: 469427

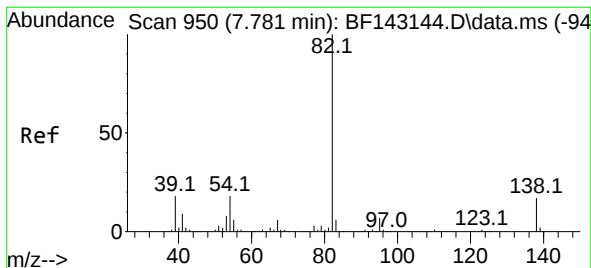
Ion Ratio Lower Upper

82 100

128 43.0 33.6 50.4

54 58.9 47.1 70.7





#25

Isophorone

Concen: 37.990 ng

RT: 7.516 min Scan# 90

Delta R.T. -0.265 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

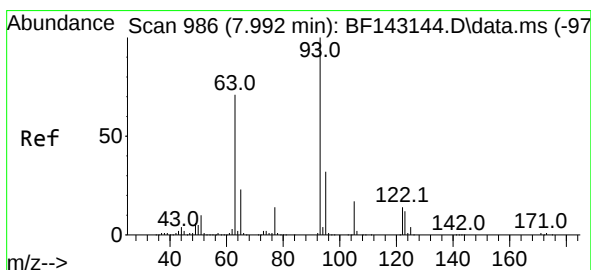
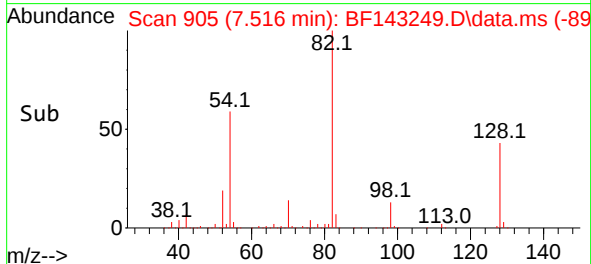
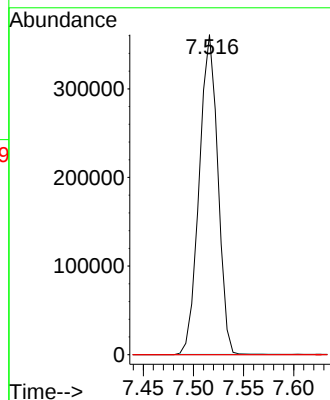
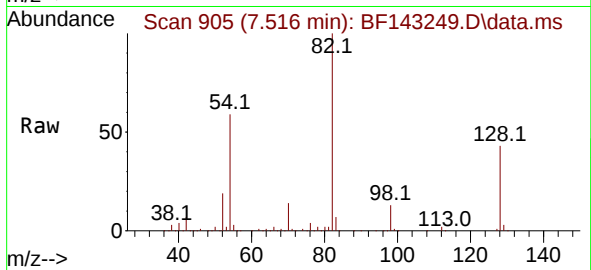
Tgt Ion: 82 Resp: 466733

Ion Ratio Lower Upper

82 100

95 0.0 5.5 8.3#

138 0.0 13.8 20.8#



#32

Benzoic acid

Concen: 5.256 ng

RT: 7.934 min Scan# 976

Delta R.T. -0.058 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

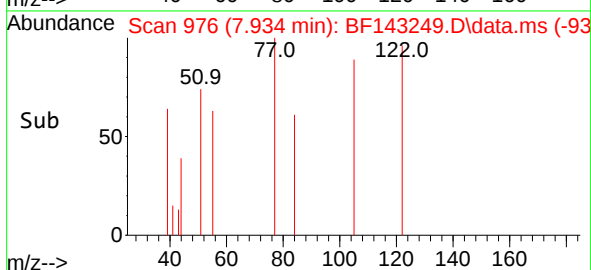
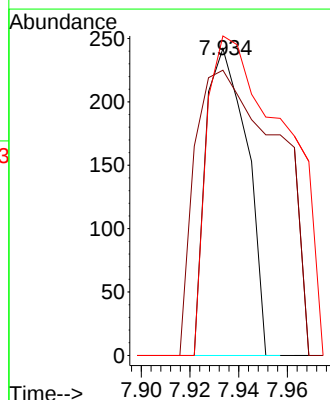
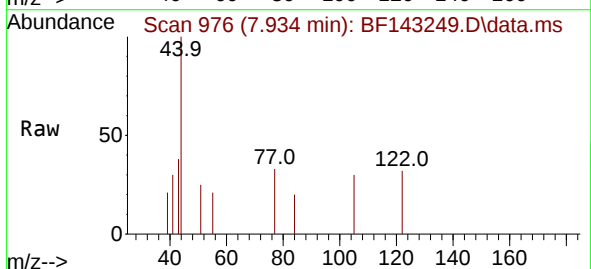
Tgt Ion:122 Resp: 284

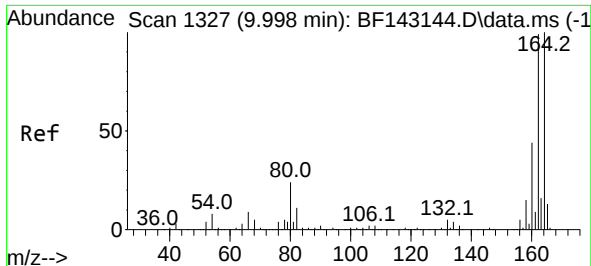
Ion Ratio Lower Upper

122 100

105 93.0 104.8 144.8#

77 104.1 77.6 117.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.998 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

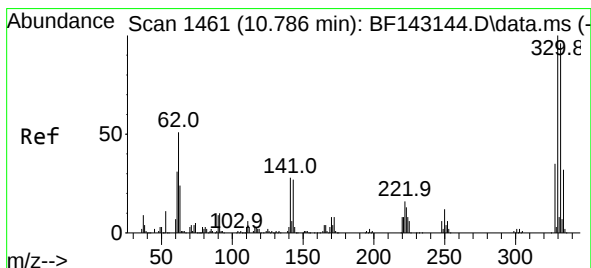
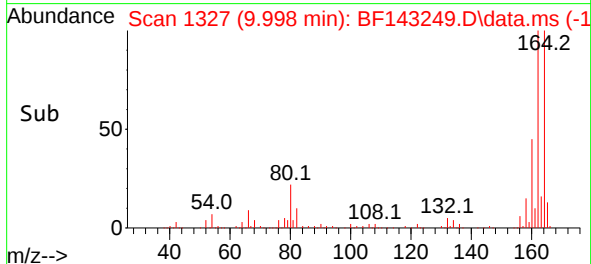
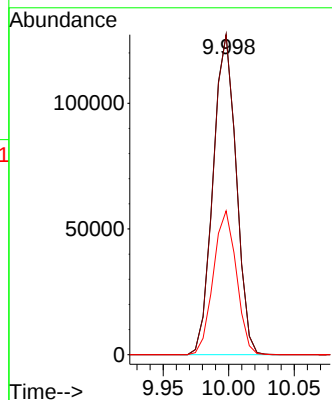
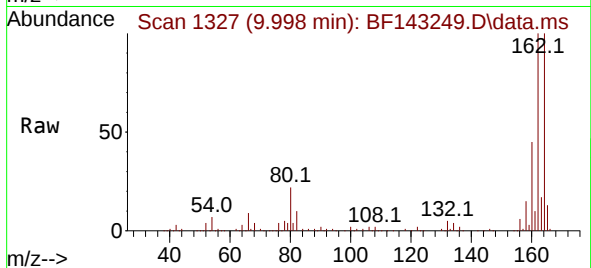
Tgt Ion:164 Resp: 155782

Ion Ratio Lower Upper

164 100

162 100.1 79.0 118.6

160 45.0 35.1 52.7



#42

2,4,6-Tribromophenol

Concen: 93.173 ng

RT: 10.786 min Scan# 1461

Delta R.T. -0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

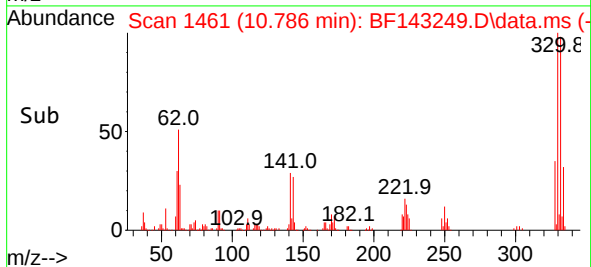
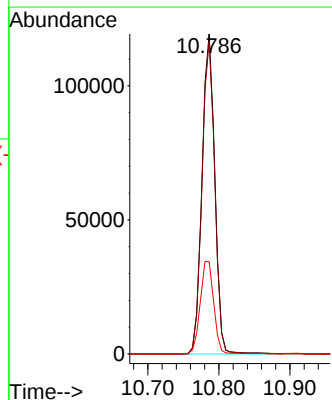
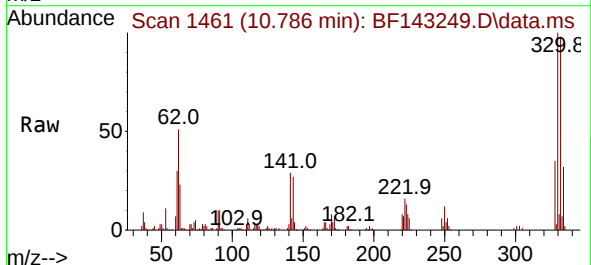
Tgt Ion:330 Resp: 149945

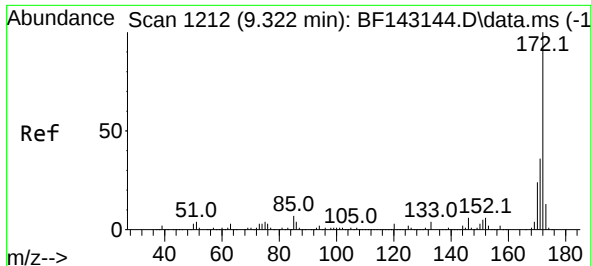
Ion Ratio Lower Upper

330 100

332 97.4 76.7 115.1

141 30.7 23.3 34.9

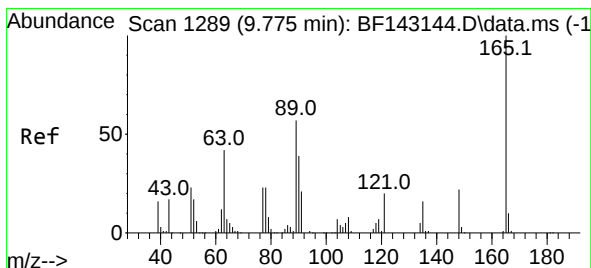
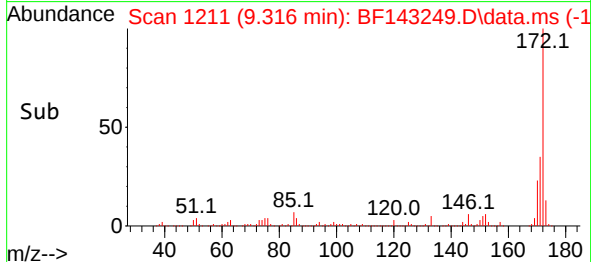
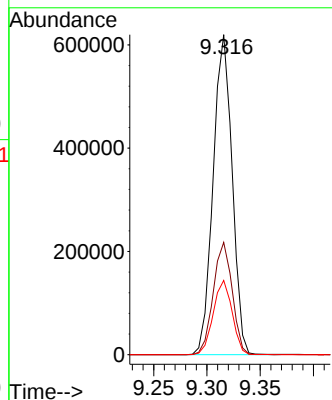
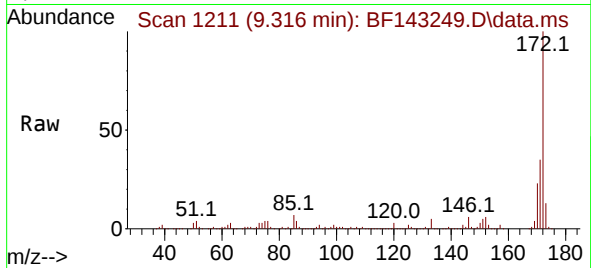




#45
2-Fluorobiphenyl
Concen: 67.576 ng
RT: 9.316 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

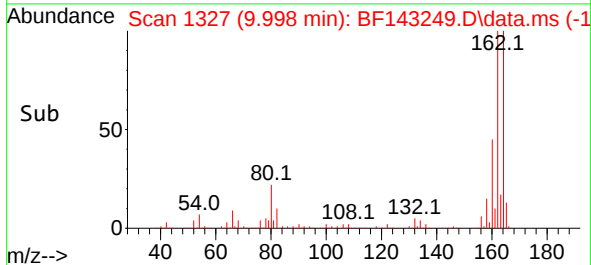
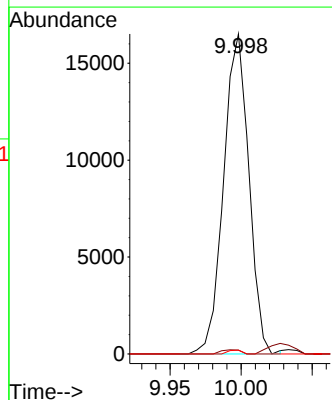
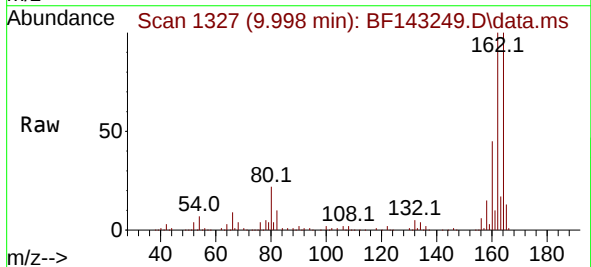
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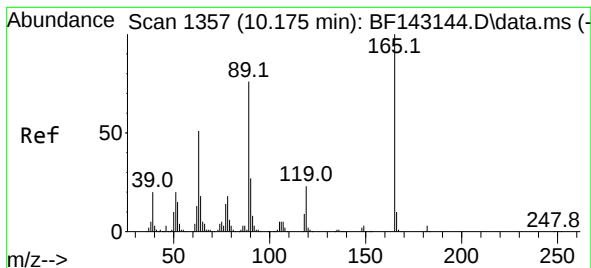
Tgt Ion:172 Resp: 769742
Ion Ratio Lower Upper
172 100
171 35.1 28.6 42.8
170 23.2 18.8 28.2



#51
2,6-Dinitrotoluene
Concen: 9.878 ng
RT: 9.998 min Scan# 1327
Delta R.T. 0.223 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

Tgt Ion:165 Resp: 20404
Ion Ratio Lower Upper
165 100
63 1.2 49.4 74.2#
89 1.2 46.2 69.2#

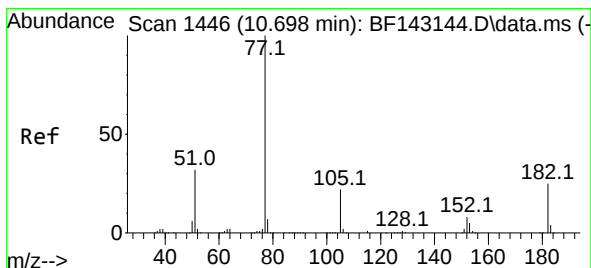
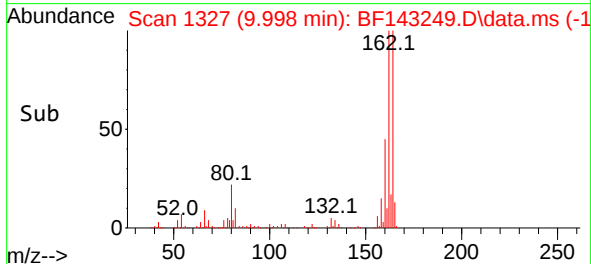
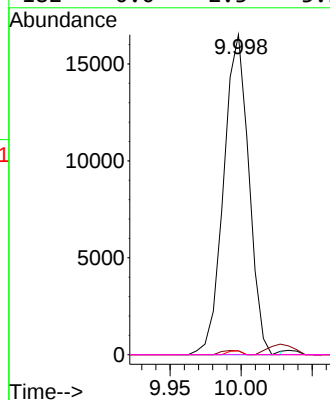
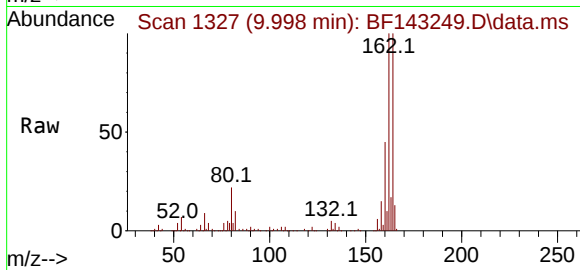




#57
2,4-Dinitrotoluene
Concen: 7.873 ng
RT: 9.998 min Scan# 11
Delta R.T. -0.176 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

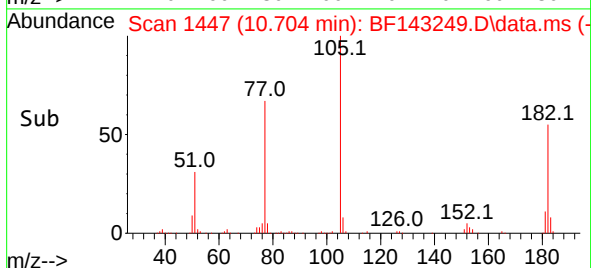
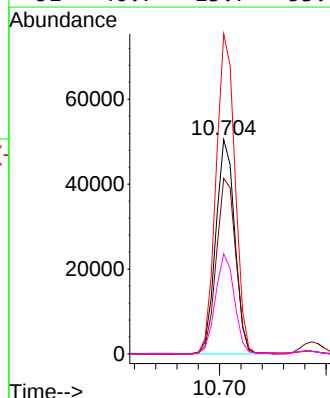
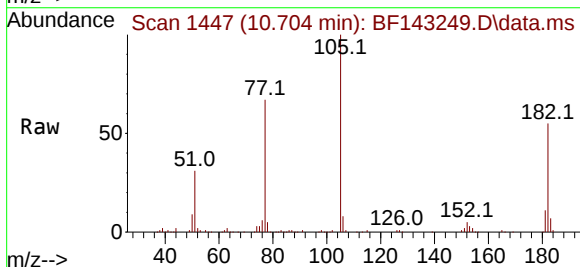
Instrument :
BNA_F
ClientSampleId :
VNJ-251

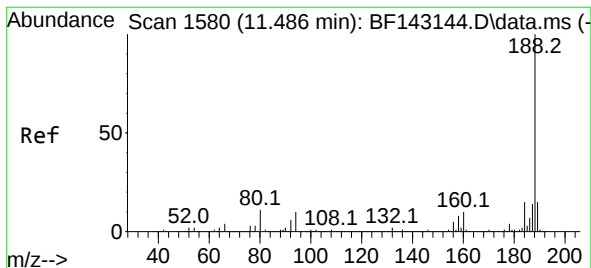
Tgt Ion:165 Resp: 20404
Ion Ratio Lower Upper
165 100
63 1.2 41.0 61.4#
89 1.2 61.1 91.7#
182 0.0 2.3 3.5#



#63
Azobenzene
Concen: 5.975 ng
RT: 10.704 min Scan# 1447
Delta R.T. 0.006 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

Tgt Ion: 77 Resp: 62505
Ion Ratio Lower Upper
77 100
182 81.8 4.6 44.6#
105 149.3 1.4 41.4#
51 46.7 13.7 53.7





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.486 min Scan# 1

Delta R.T. -0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

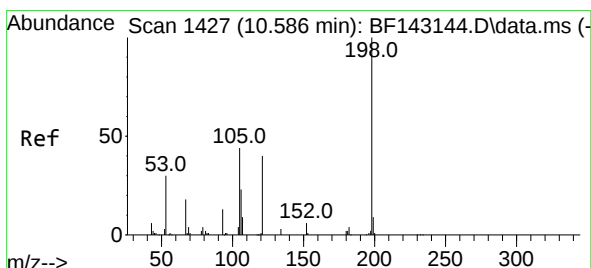
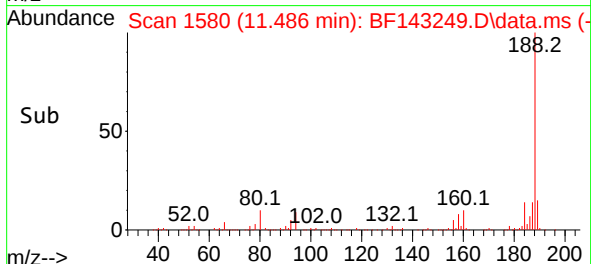
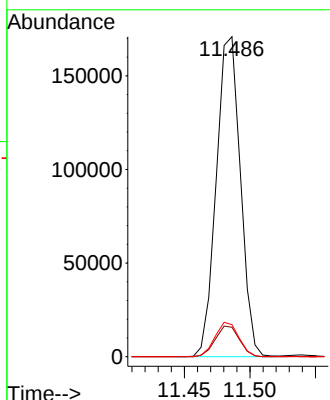
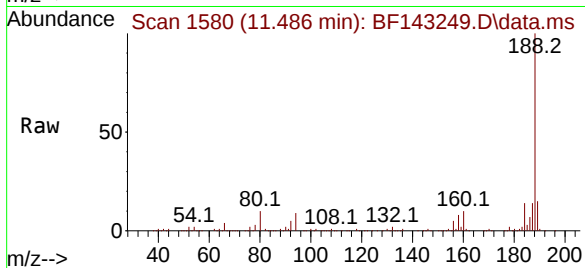
Tgt Ion:188 Resp: 218705

Ion Ratio Lower Upper

188 100

94 9.2 8.3 12.5

80 10.0 9.0 13.6



#65

4,6-Dinitro-2-methylphenol

Concen: 5.648 ng

RT: 10.786 min Scan# 1461

Delta R.T. 0.200 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

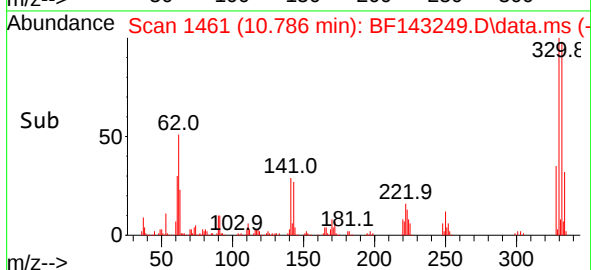
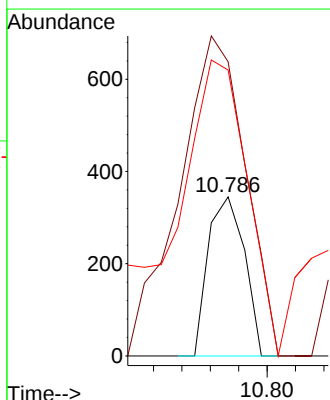
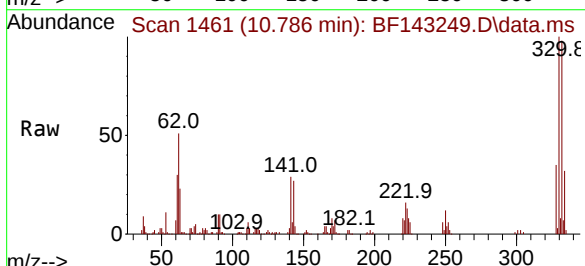
Tgt Ion:198 Resp: 305

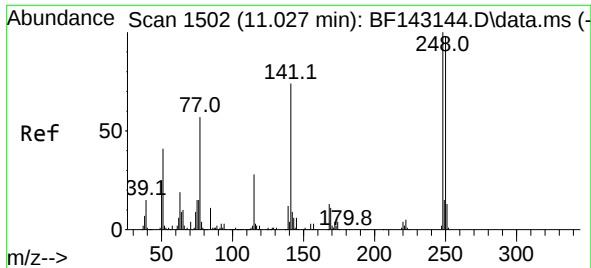
Ion Ratio Lower Upper

198 100

51 184.9 37.2 77.2#

105 179.7 24.8 64.8#

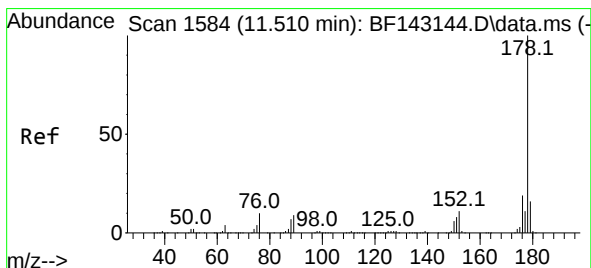
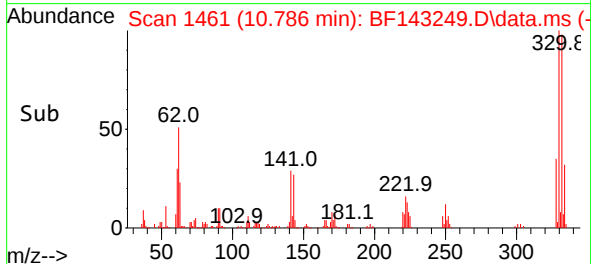
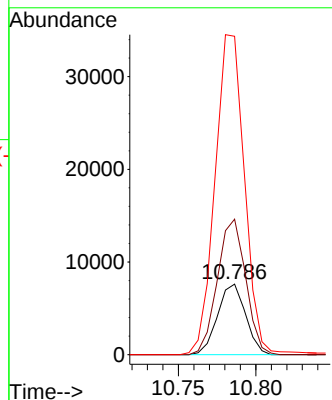
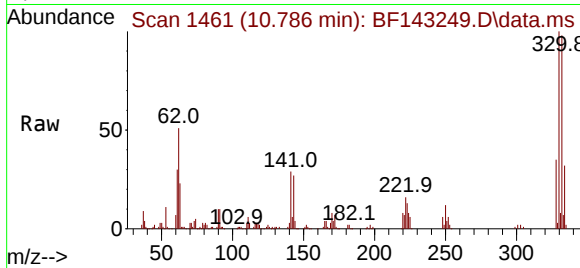




#67
4-Bromophenyl-phenylether
Concen: 3.677 ng
RT: 10.786 min Scan# 141
Delta R.T. -0.241 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

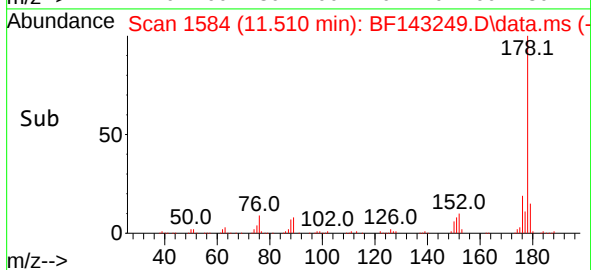
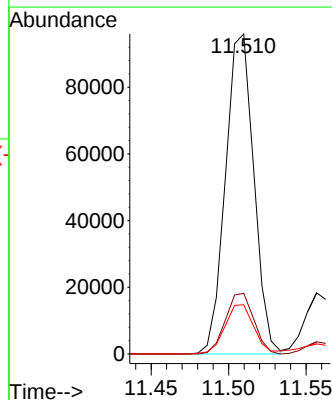
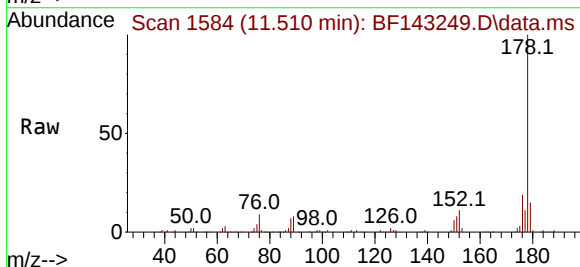
Instrument :
BNA_F
ClientSampleId :
VNJ-251

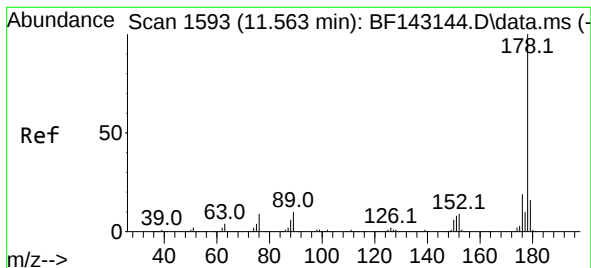
Tgt Ion:248 Resp: 9583
Ion Ratio Lower Upper
248 100
250 192.2 78.3 117.5#
141 451.7 59.2 88.8#



#71
Phenanthrene
Concen: 10.526 ng
RT: 11.510 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BF143249.D
Acq: 25 Jul 2025 14:18

Tgt Ion:178 Resp: 122236
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.4 12.5 18.7





#72

Anthracene

Concen: 2.004 ng

RT: 11.557 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

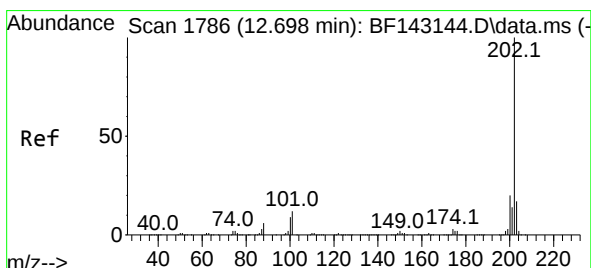
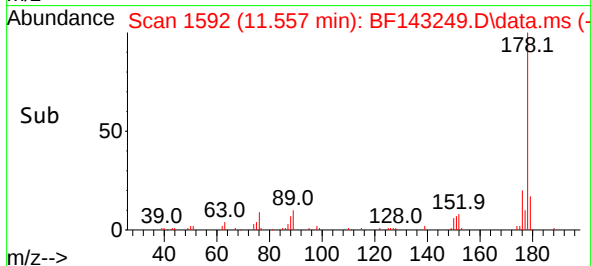
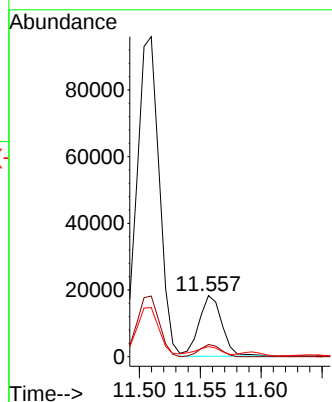
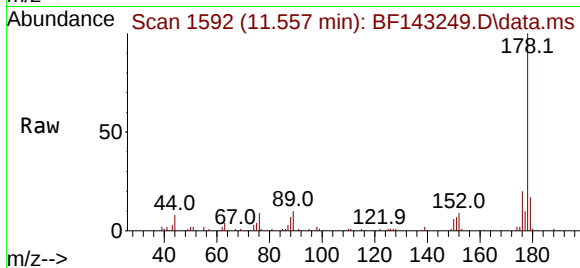
Tgt Ion:178 Resp: 23740

Ion Ratio Lower Upper

178 100

176 19.8 15.0 22.4

179 16.6 12.5 18.7



#75

Fluoranthene

Concen: 15.500 ng

RT: 12.698 min Scan# 1786

Delta R.T. -0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

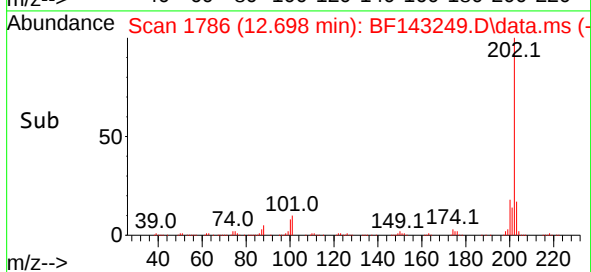
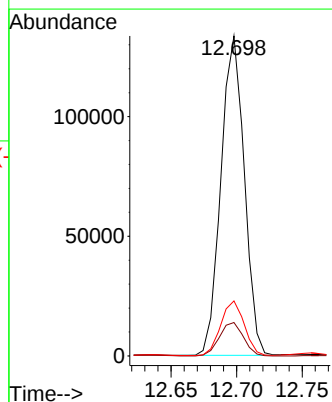
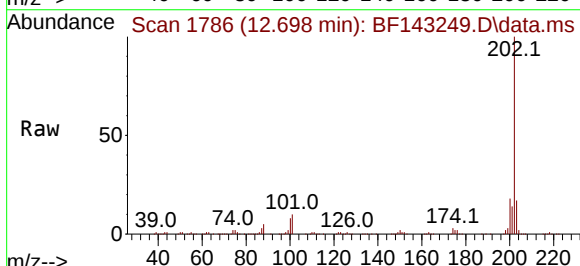
Tgt Ion:202 Resp: 165208

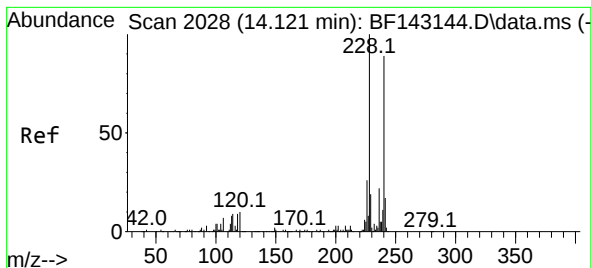
Ion Ratio Lower Upper

202 100

101 10.4 0.0 31.7

203 17.2 0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.121 min Scan# 2028

Delta R.T. -0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

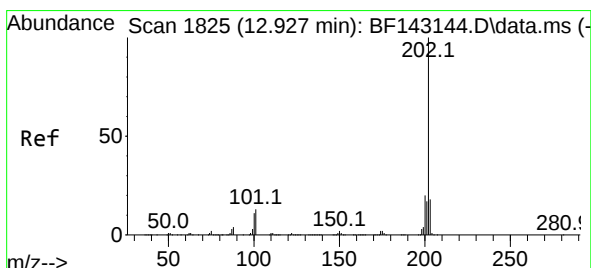
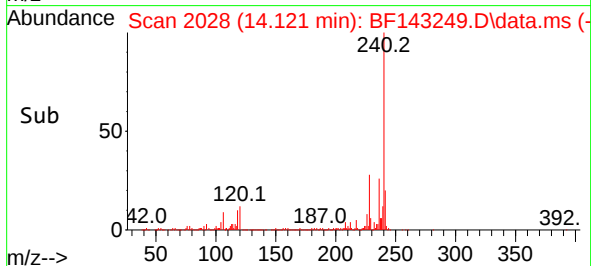
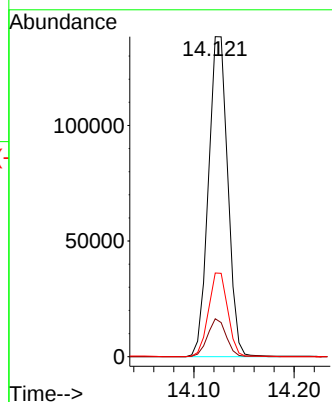
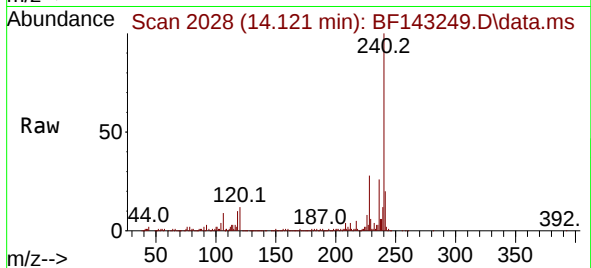
Tgt Ion:240 Resp: 185787

Ion Ratio Lower Upper

240 100

120 11.8 9.4 14.2

236 26.2 20.2 30.4



#78

Pyrene

Concen: 8.988 ng

RT: 12.927 min Scan# 1825

Delta R.T. -0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

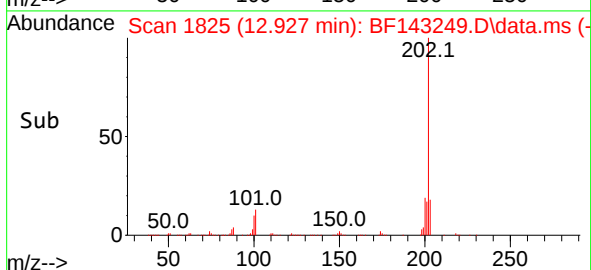
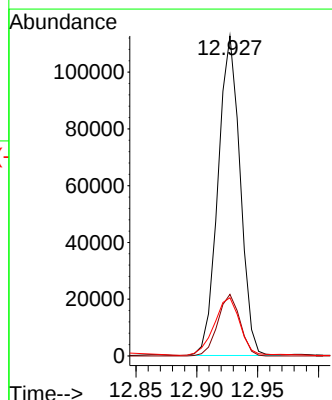
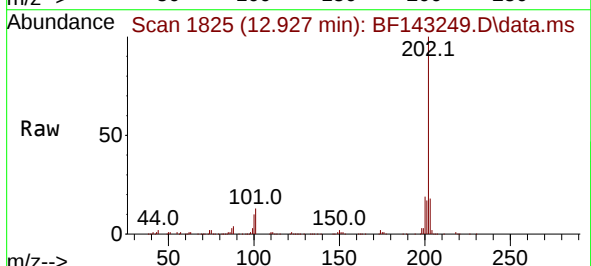
Tgt Ion:202 Resp: 142508

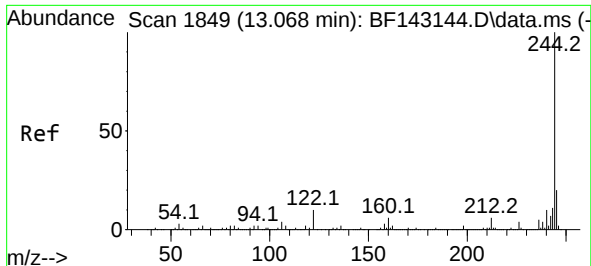
Ion Ratio Lower Upper

202 100

200 19.2 15.7 23.5

203 18.2 14.2 21.2

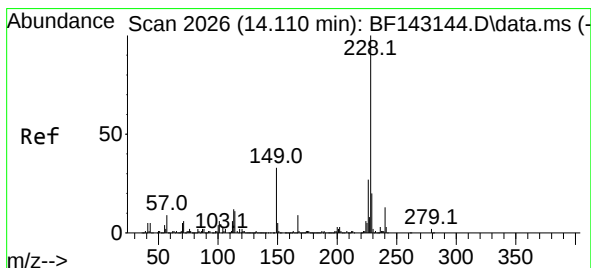
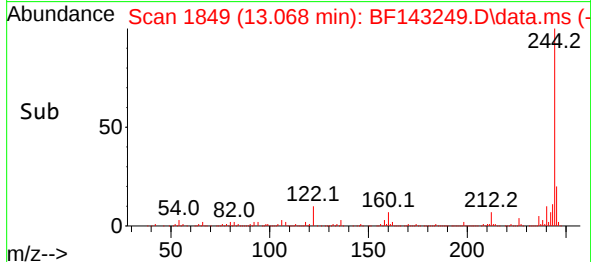
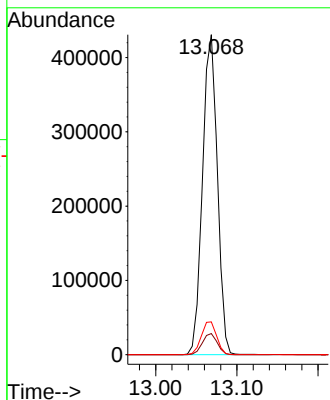
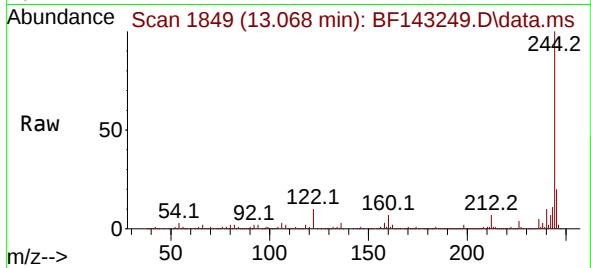




#79
 Terphenyl-d14
 Concen: 43.757 ng
 RT: 13.068 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF143249.D
 Acq: 25 Jul 2025 14:18

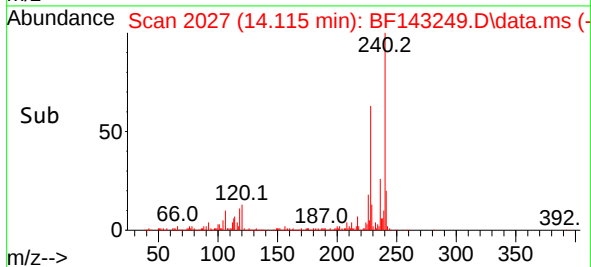
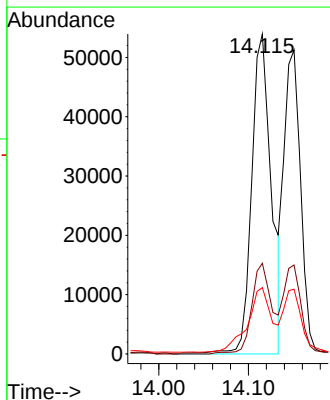
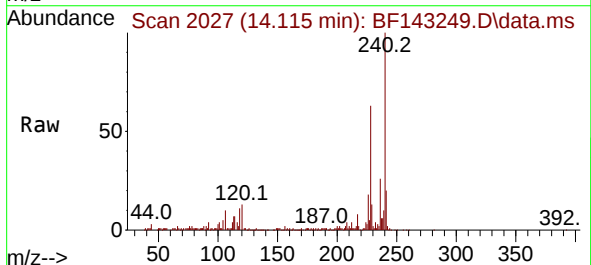
Instrument :
 BNA_F
 ClientSampleId :
 VNJ-251

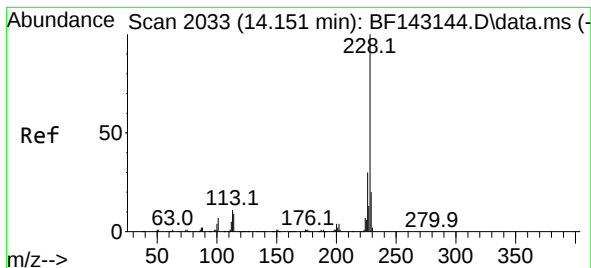
Tgt Ion:244 Resp: 546301
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.2 7.8
 122 10.2 8.2 12.2



#81
 Benzo(a)anthracene
 Concen: 6.576 ng
 RT: 14.115 min Scan# 2027
 Delta R.T. 0.006 min
 Lab File: BF143249.D
 Acq: 25 Jul 2025 14:18

Tgt Ion:228 Resp: 81801
 Ion Ratio Lower Upper
 228 100
 226 28.4 21.7 32.5
 229 20.8 15.8 23.6





#83

Chrysene

Concen: 5.845 ng

RT: 14.151 min Scan# 2033

Delta R.T. -0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

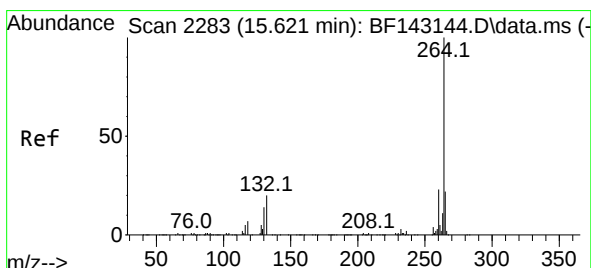
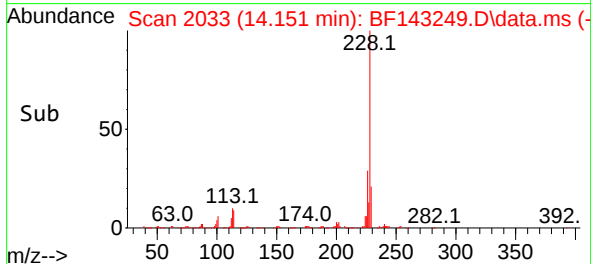
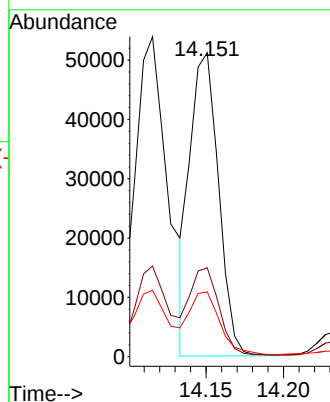
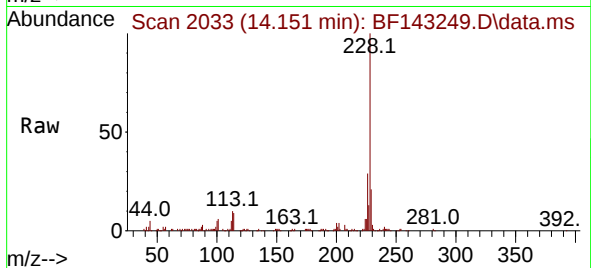
Tgt Ion:228 Resp: 65367

Ion Ratio Lower Upper

228 100

226 29.3 23.8 35.8

229 21.3 15.6 23.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.633 min Scan# 2285

Delta R.T. 0.012 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

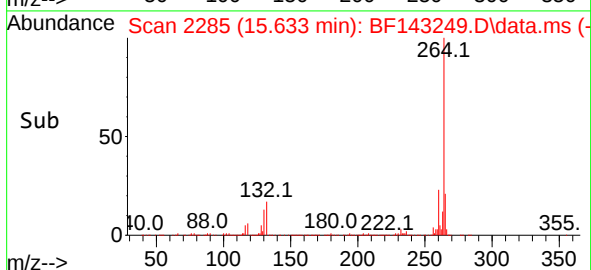
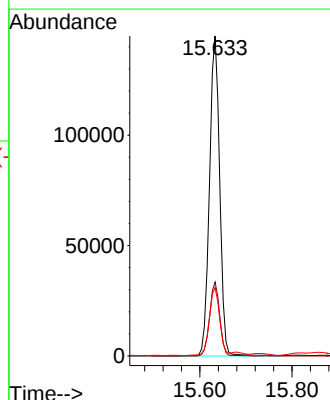
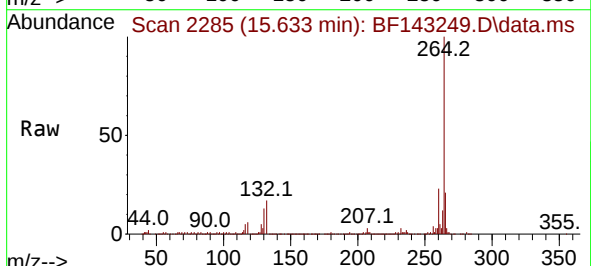
Tgt Ion:264 Resp: 224377

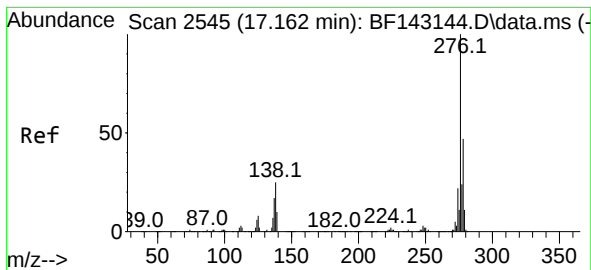
Ion Ratio Lower Upper

264 100

260 23.1 18.5 27.7

265 21.4 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.046 ng

RT: 17.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

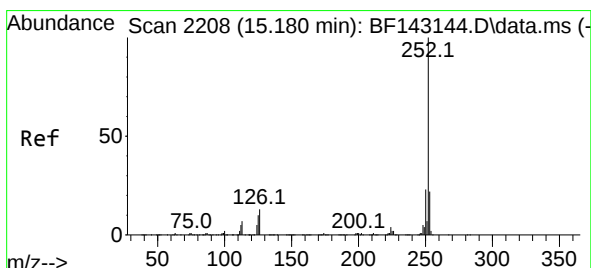
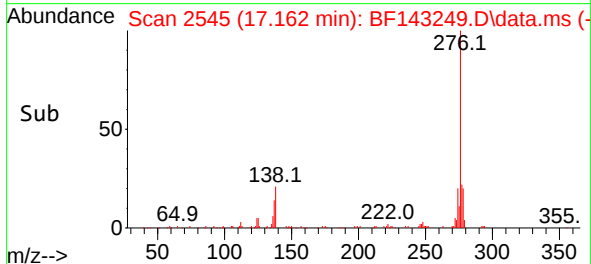
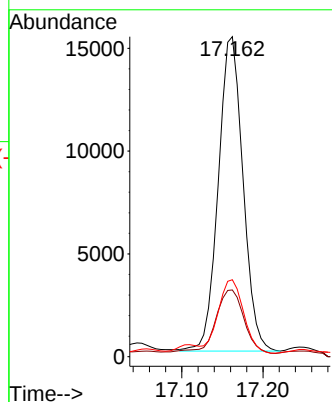
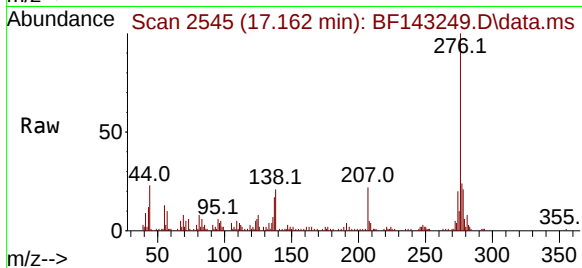
Tgt Ion:276 Resp: 32374

Ion Ratio Lower Upper

276 100

138 23.3 21.8 32.6

277 24.7 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 8.722 ng

RT: 15.186 min Scan# 2209

Delta R.T. 0.006 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

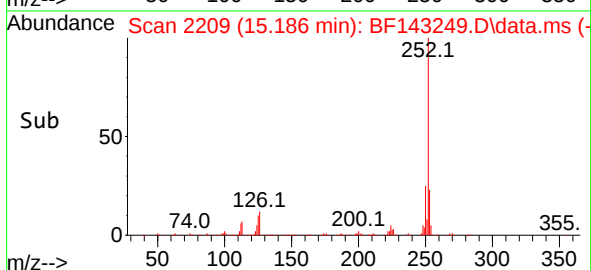
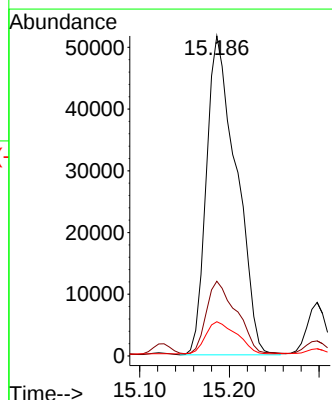
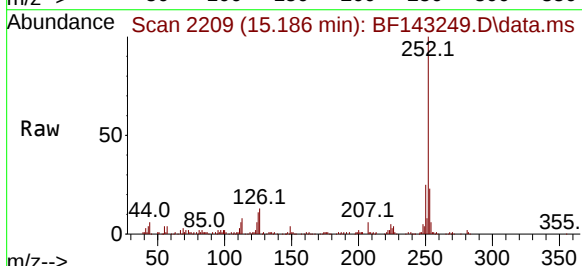
Tgt Ion:252 Resp: 119555

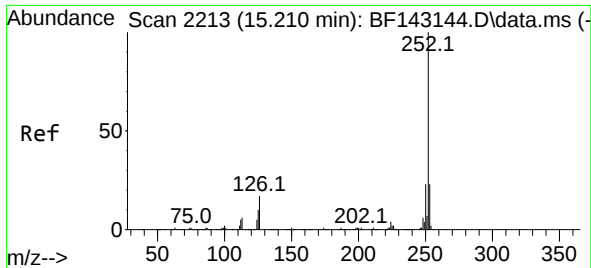
Ion Ratio Lower Upper

252 100

253 23.3 17.5 26.3

125 10.7 8.0 12.0





#89

Benzo(k)fluoranthene

Concen: 9.774 ng

RT: 15.186 min Scan# 21

Delta R.T. -0.024 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

Instrument :

BNA_F

ClientSampleId :

VNJ-251

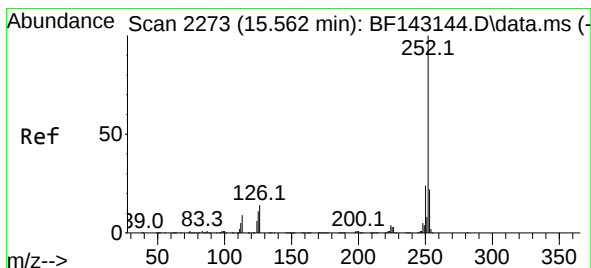
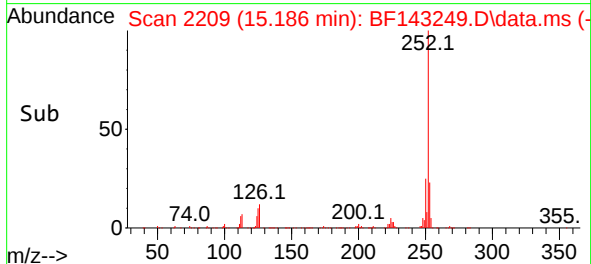
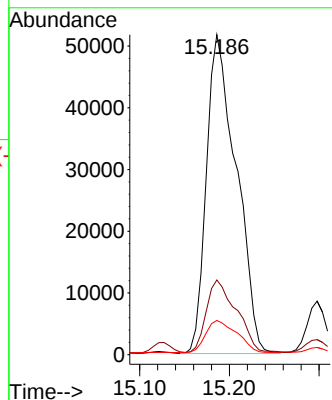
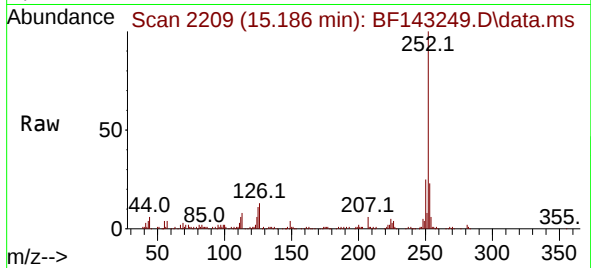
Tgt Ion:252 Resp: 119555

Ion Ratio Lower Upper

252 100

253 23.3 17.8 26.6

125 10.7 8.1 12.1



#90

Benzo(a)pyrene

Concen: 4.901 ng

RT: 15.562 min Scan# 2273

Delta R.T. -0.000 min

Lab File: BF143249.D

Acq: 25 Jul 2025 14:18

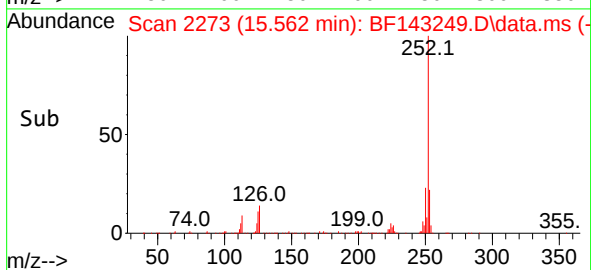
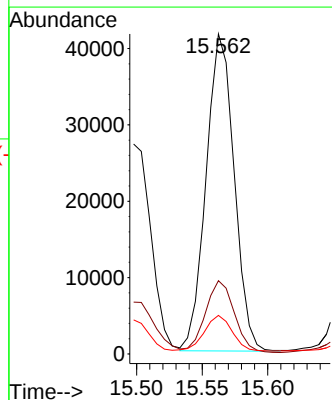
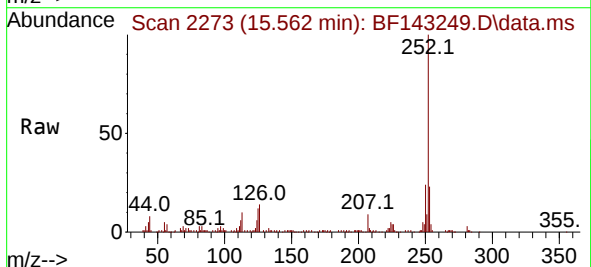
Tgt Ion:252 Resp: 61892

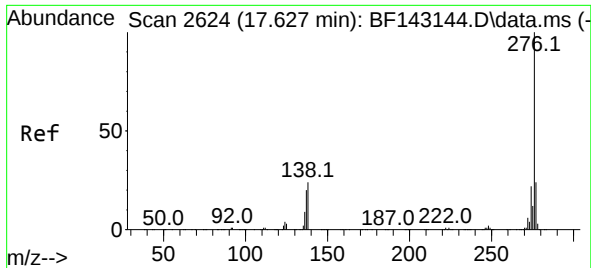
Ion Ratio Lower Upper

252 100

253 22.9 17.3 25.9

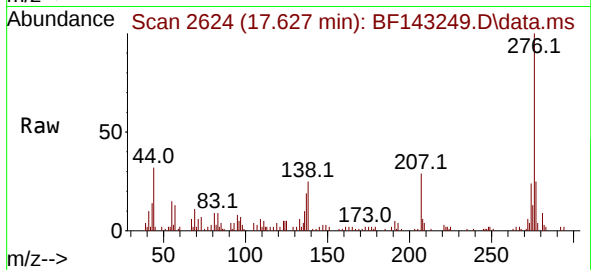
125 12.0 8.6 13.0





#92
 Benzo(g,h,i)perylene
 Concen: 2.344 ng
 RT: 17.627 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: BF143249.D
 Acq: 25 Jul 2025 14:18

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-251



Tgt Ion:	276	Resp:	29199
Ion Ratio	Lower	Upper	
276	100		
277	24.6	19.1	28.7
138	25.2	18.9	28.3

