

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF082123\
 Data File : BF134878.D
 Acq On : 21 Aug 2023 20:54
 Operator : CG\JU
 Sample : 04047-04DL 200X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z83-84DL

Quant Time: Aug 22 03:24:19 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

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

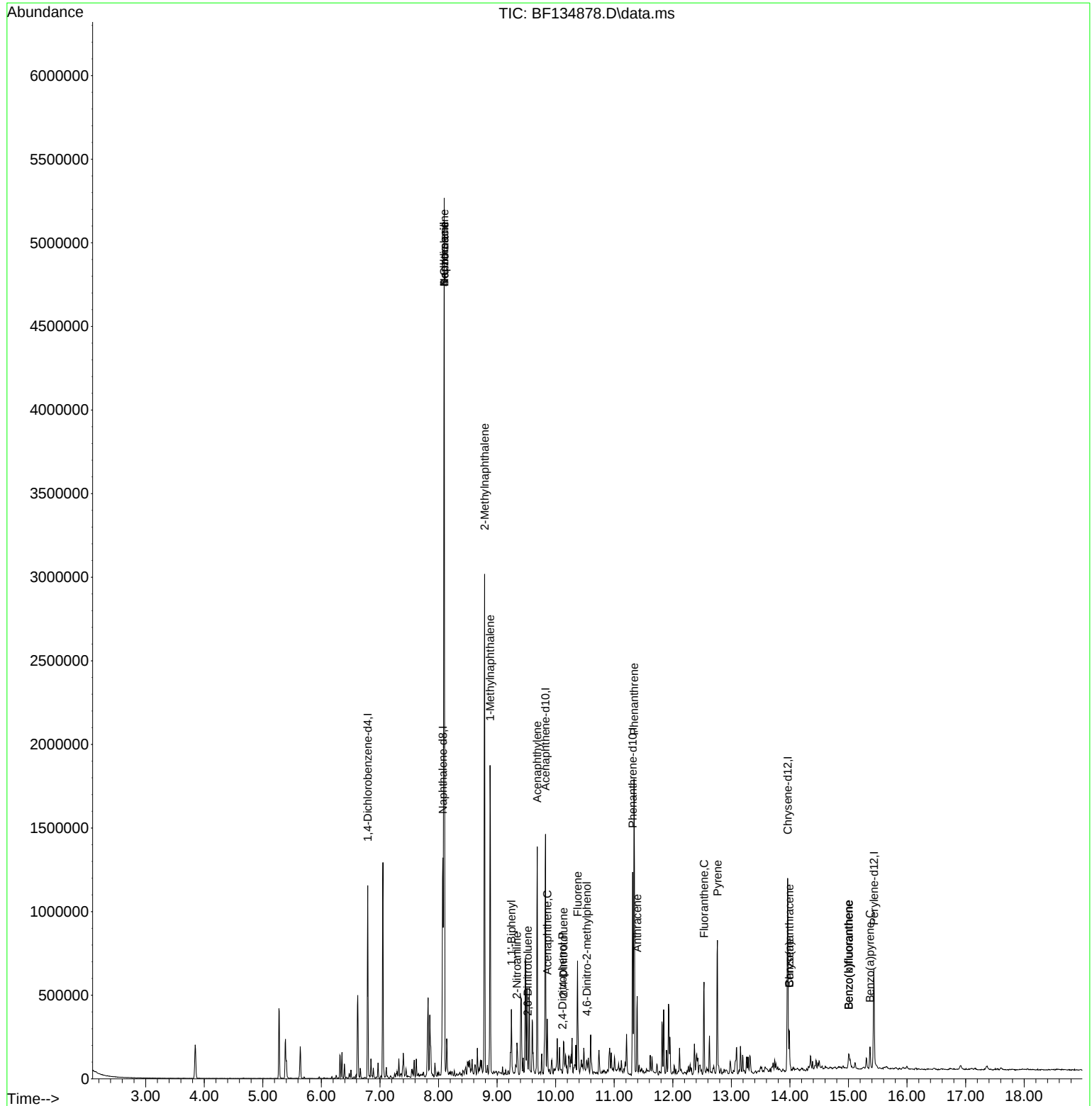
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	157684	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	621900	20.000	ng	# 0.00
39) Acenaphthene-d10	9.828	164	284154	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	431273	20.000	ng	# 0.00
76) Chrysene-d12	13.963	240	337570	20.000	ng	#-0.01
86) Perylene-d12	15.433	264	282272	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	2112	0.204	ng	0.00
7) Phenol-d6	6.428	99	2912	0.220	ng	-0.01
23) Nitrobenzene-d5	7.351	82	2929	0.294	ng	-0.02
42) 2,4,6-Tribromophenol	10.622	330	400	0.138	ng	0.00
45) 2-Fluorobiphenyl	9.145	172	5535	0.324	ng	-0.02
79) Terphenyl-d14	12.904	244	5014	0.262	ng	-0.02
Target Compounds						Qvalue
9) Benzaldehyde	6.351	77	6003	Below Cal	#	1
31) Naphthalene	8.098	128	2393823	76.589	ng	98
32) Benzoic acid	8.098	122	6042	8.667	ng	# 1
33) 4-Chloroaniline	8.098	127	325273	23.356	ng	# 33
37) 2-Methylnaphthalene	8.786	142	741852	35.808	ng	99
38) 1-Methylnaphthalene	8.881	142	465330	24.154	ng	97
46) 1,1'-Biphenyl	9.245	154	106301	4.811	ng	98
48) 2-Nitroaniline	9.339	65	1538	3.444	ng	# 17
49) Acenaphthylene	9.686	152	447751	17.204	ng	98
51) 2,6-Dinitrotoluene	9.522	165	1933	2.957	ng	# 83
52) Acenaphthene	9.857	154	57367	3.401	ng	99
54) 2,4-Dinitrophenol	10.116	184	231	6.976	ng	93
57) 2,4-Dinitrotoluene	10.133	165	9109	4.638	ng	# 41
58) Fluorene	10.375	166	179928	10.289	ng	94
65) 4,6-Dinitro-2-methylph...	10.533	198	71	8.732	ng	# 1
71) Phenanthrene	11.339	178	633572	27.658	ng	100
72) Anthracene	11.392	178	172947	7.391	ng	99
75) Fluoranthene	12.533	202	217237	8.978	ng	99
78) Pyrene	12.763	202	329291	11.273	ng	98
81) Benzo(a)anthracene	13.992	228	99420	4.119	ng	97
83) Chrysene	13.992	228	99420	4.228	ng	97
88) Benzo(b)fluoranthene	15.004	252	69776	4.053	ng	# 93
89) Benzo(k)fluoranthene	15.004	252	69776	4.069	ng	# 95
90) Benzo(a)pyrene	15.368	252	61195	3.812	ng	# 95

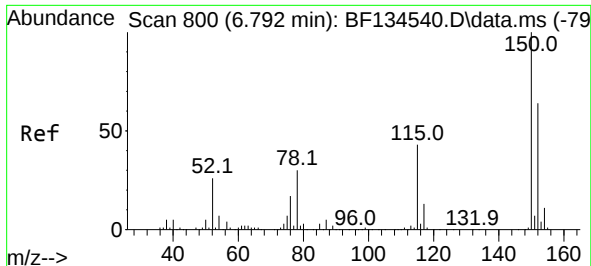
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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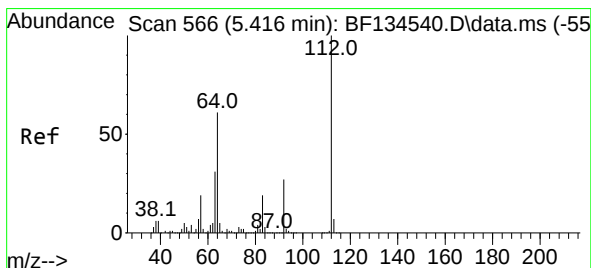
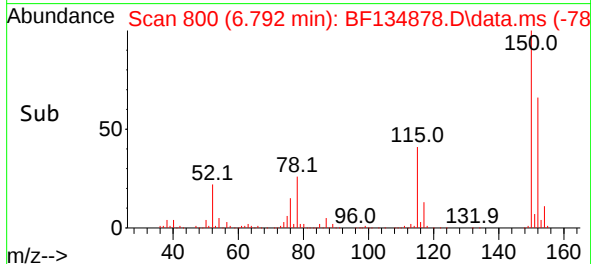
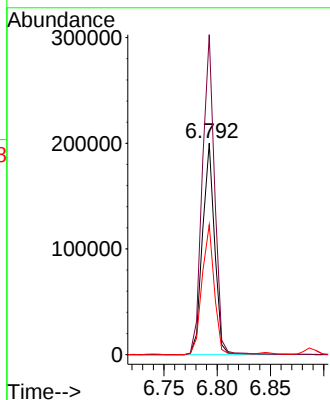
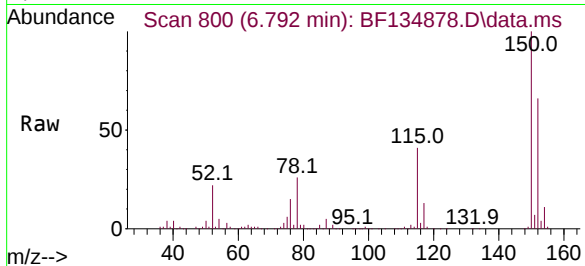




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.792 min Scan# 800
 Delta R.T. -0.006 min
 Lab File: BF134878.D
 Acq: 21 Aug 2023 20:54

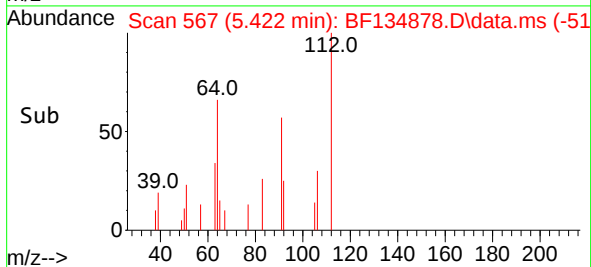
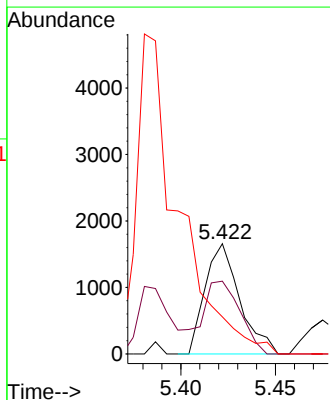
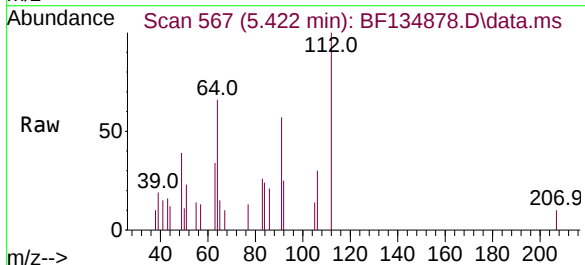
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z83-84DL

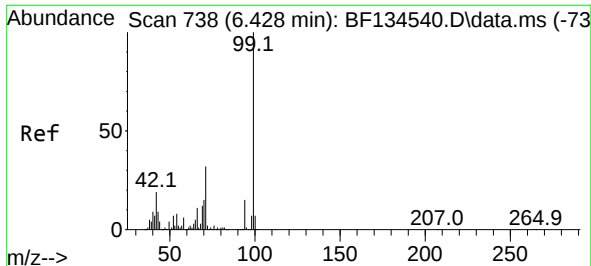
Tgt Ion:152 Resp: 157684
 Ion Ratio Lower Upper
 152 100
 150 151.3 128.3 192.5
 115 61.4 52.4 78.6



#5
 2-Fluorophenol
 Concen: 0.204 ng
 RT: 5.422 min Scan# 567
 Delta R.T. -0.006 min
 Lab File: BF134878.D
 Acq: 21 Aug 2023 20:54

Tgt Ion:112 Resp: 2112
 Ion Ratio Lower Upper
 112 100
 64 66.1 44.9 67.3
 63 33.7 25.4 38.0





#7

Phenol-d6

Concen: 0.220 ng

RT: 6.428 min Scan# 738

Delta R.T. -0.012 min

Lab File: BF134878.D

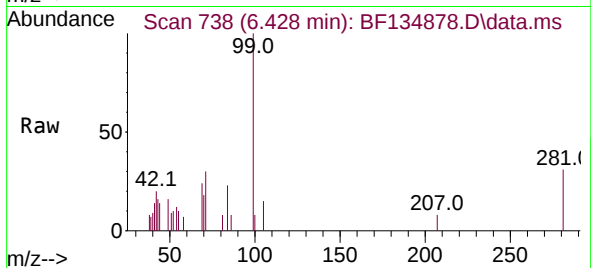
Acq: 21 Aug 2023 20:54

Instrument :

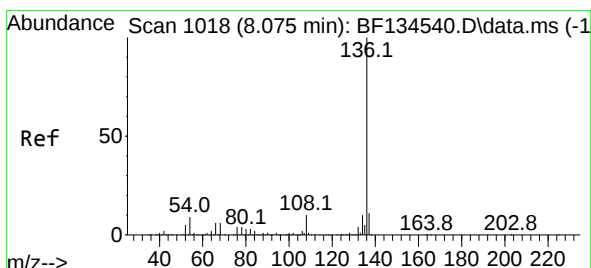
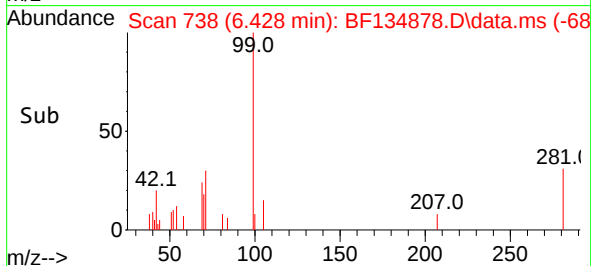
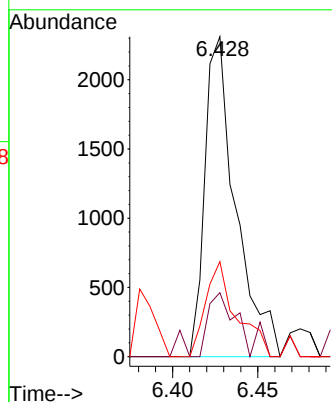
BNA_F

ClientSampleId :

NEVINS-SB05-Z83-84DL



Tgt Ion:	99	Resp:	2912
Ion	Ratio	Lower	Upper
99	100		
42	20.0	18.7	28.1
71	29.7	36.4	54.6



#21

Naphthalene-d8

Concen: 20.000 ng

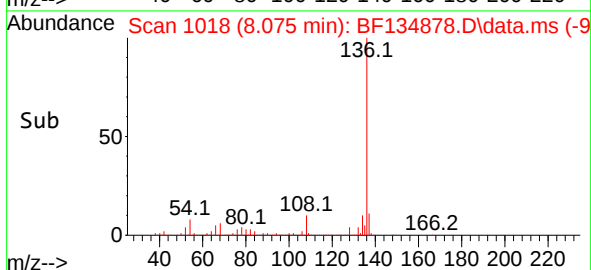
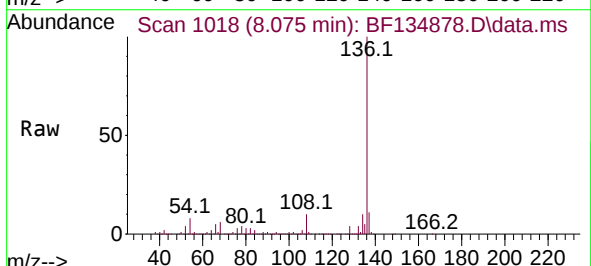
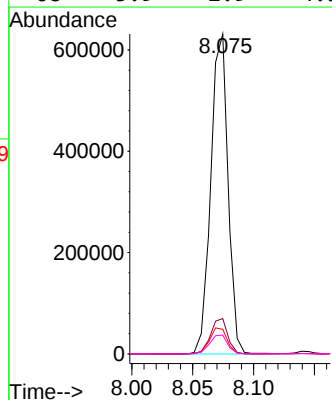
RT: 8.075 min Scan# 1018

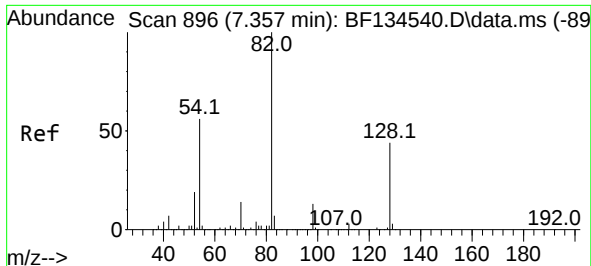
Delta R.T. -0.006 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

Tgt Ion:	136	Resp:	621900
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.4	12.6
54	7.7	5.2	7.8
68	5.9	2.9	4.3





#23

Nitrobenzene-d5

Concen: 0.294 ng

RT: 7.351 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF134878.D

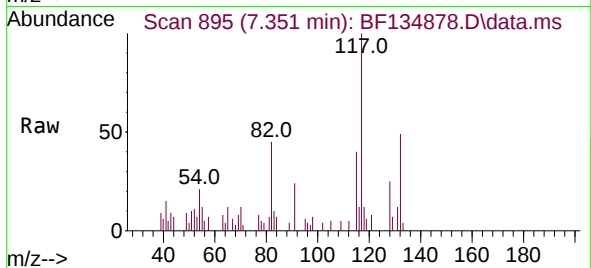
Acq: 21 Aug 2023 20:54

Instrument :

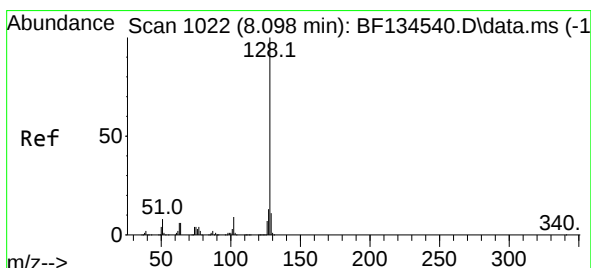
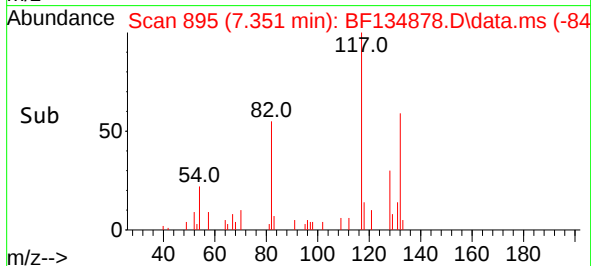
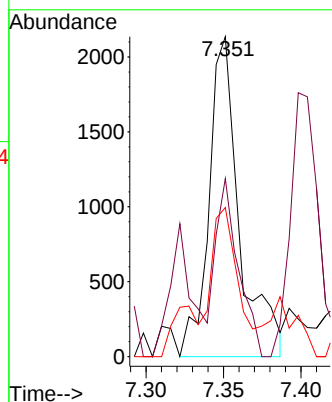
BNA_F

ClientSampleId :

NEVINS-SB05-Z83-84DL



Tgt Ion:	82	Resp:	2929
Ion Ratio	Lower	Upper	
82	100		
128	55.6	34.3	51.5#
54	46.6	43.8	65.6



#31

Naphthalene

Concen: 76.589 ng

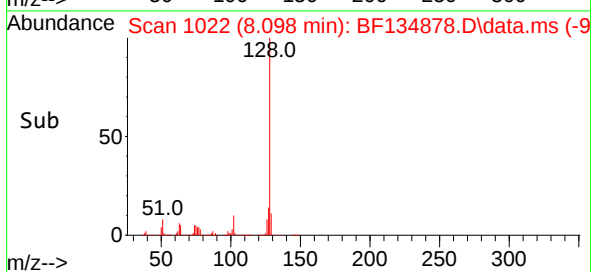
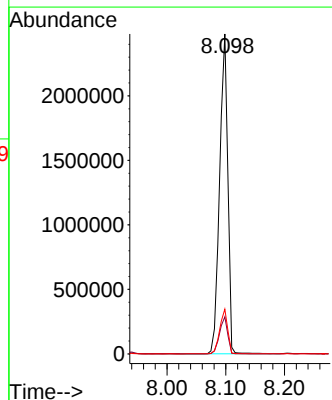
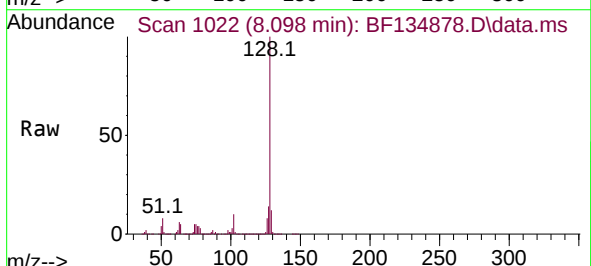
RT: 8.098 min Scan# 1022

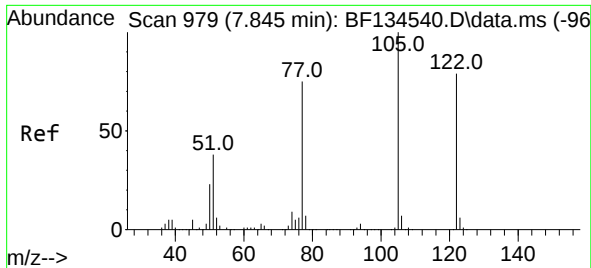
Delta R.T. -0.006 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

Tgt Ion:	128	Resp:	2393823
Ion Ratio	Lower	Upper	
128	100		
129	11.6	8.4	12.6
127	14.0	10.7	16.1

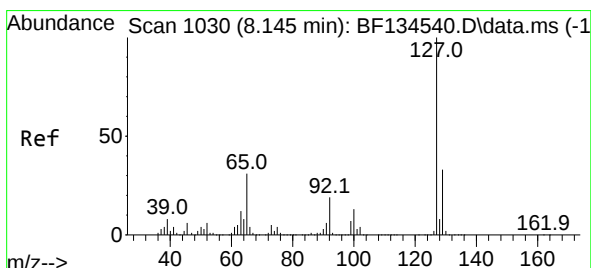
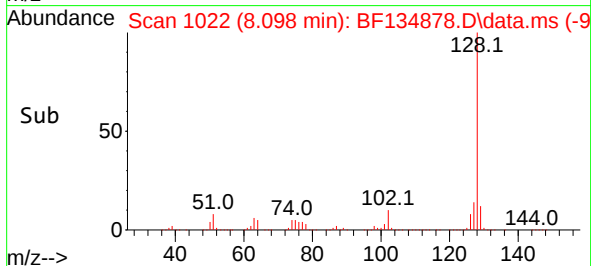
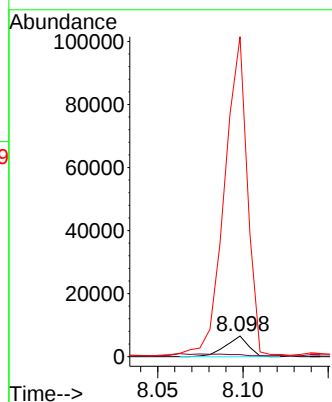
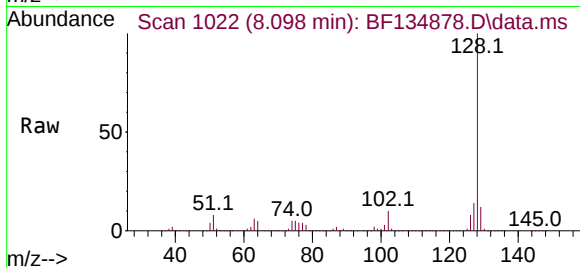




#32
Benzoic acid
Concen: 8.667 ng
RT: 8.098 min Scan# 1022
Delta R.T. 0.235 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

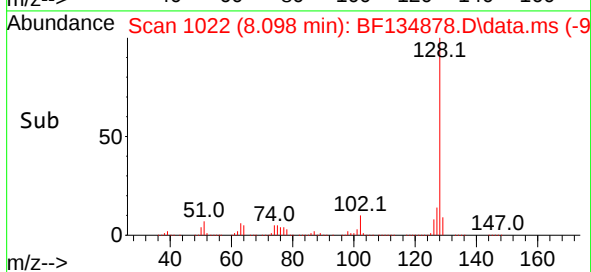
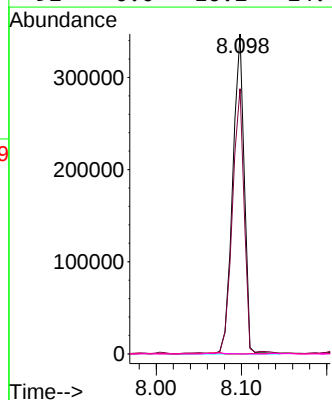
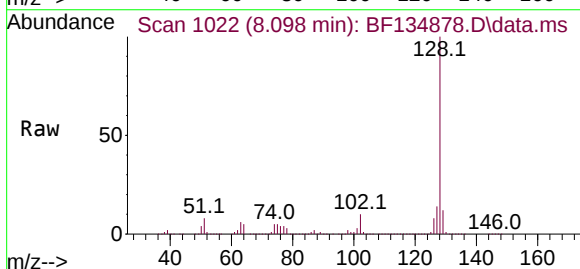
Instrument :
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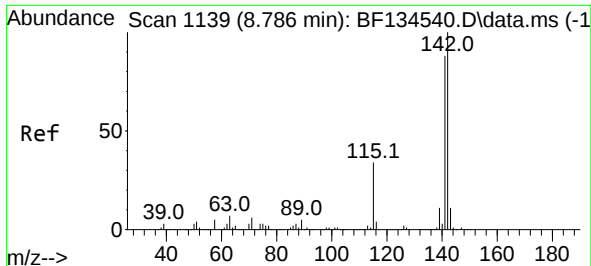
Tgt Ion:122 Resp: 6042
Ion Ratio Lower Upper
122 100
105 9.8 87.5 127.5#
77 1551.7 71.4 111.4#



#33
4-Chloroaniline
Concen: 23.356 ng
RT: 8.098 min Scan# 1022
Delta R.T. -0.053 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

Tgt Ion:127 Resp: 325273
Ion Ratio Lower Upper
127 100
129 82.9 25.6 38.4#
65 0.0 25.4 38.0#
92 0.0 16.2 24.4#

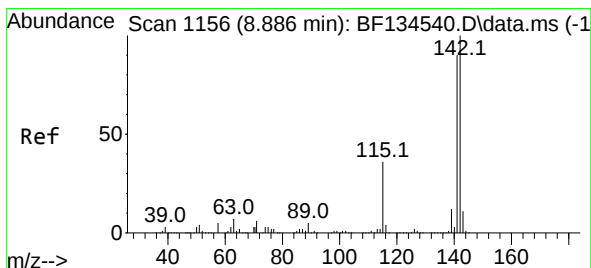
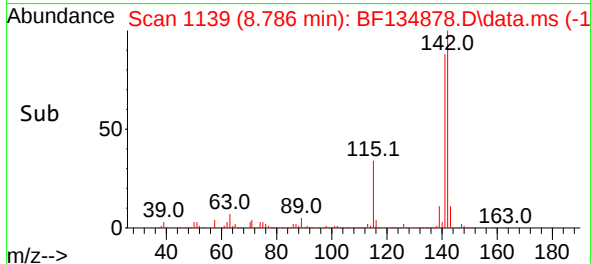
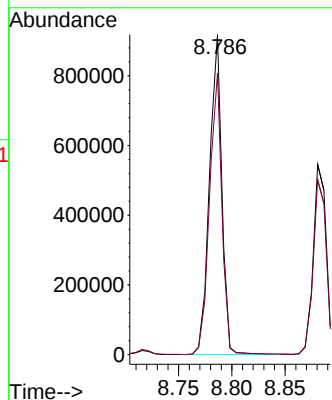
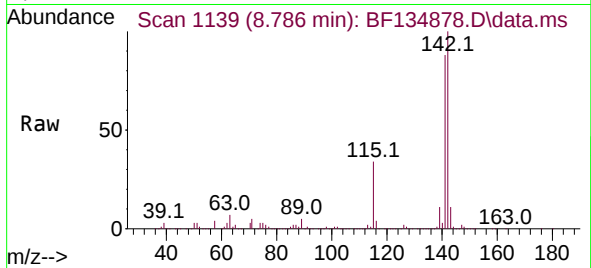




#37
2-Methylnaphthalene
Concen: 35.808 ng
RT: 8.786 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

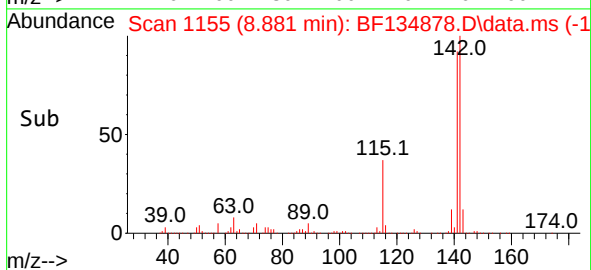
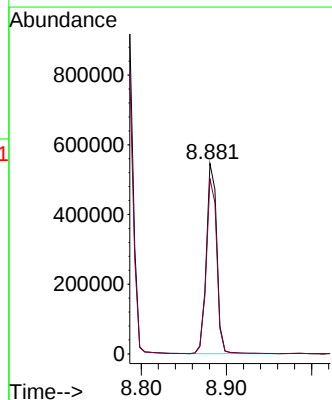
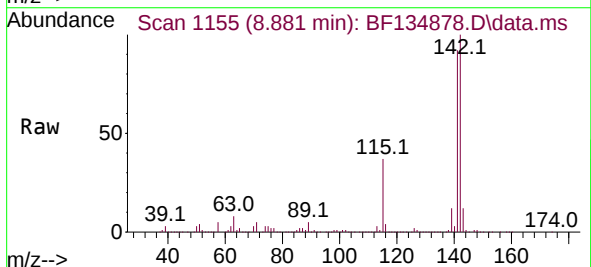
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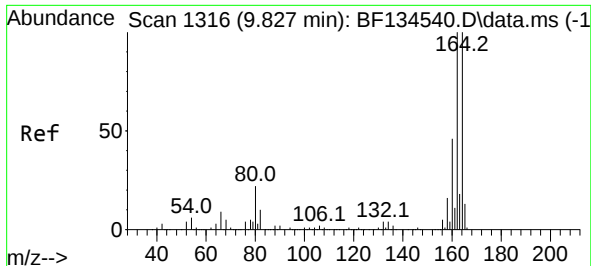
Tgt Ion:142 Resp: 741852
Ion Ratio Lower Upper
142 100
141 87.9 70.8 106.2



#38
1-Methylnaphthalene
Concen: 24.154 ng
RT: 8.881 min Scan# 1155
Delta R.T. -0.012 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

Tgt Ion:142 Resp: 465330
Ion Ratio Lower Upper
142 100
141 92.0 71.4 107.2

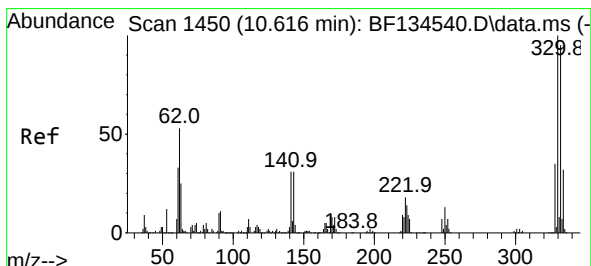
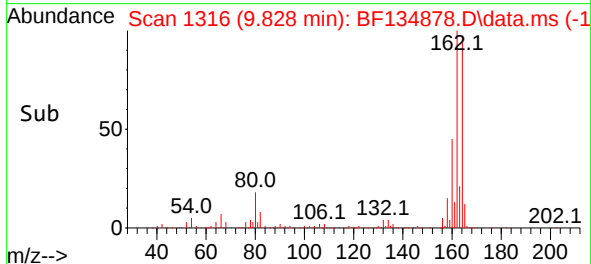
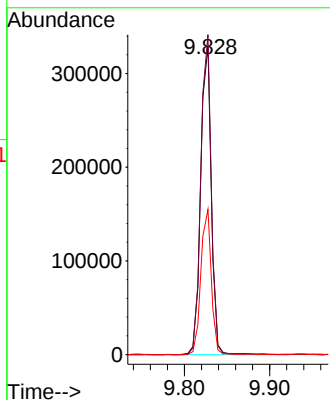
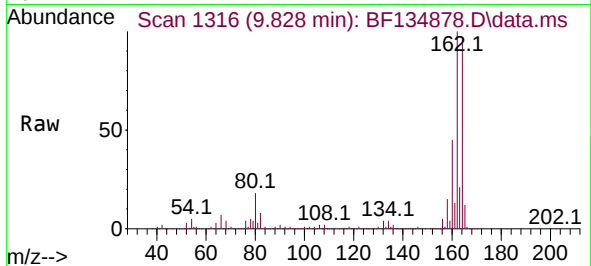




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1316
Delta R.T. -0.006 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

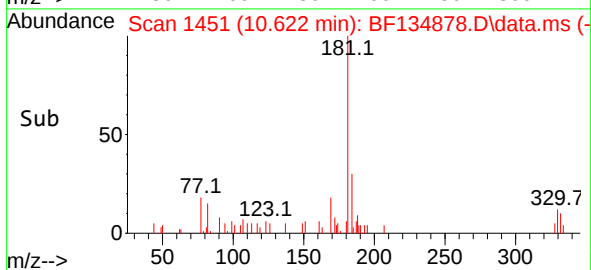
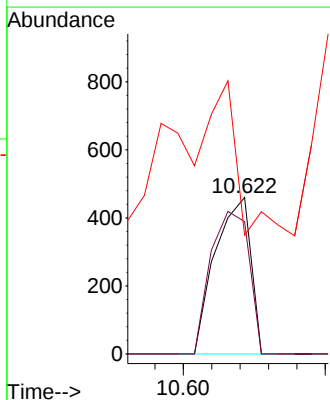
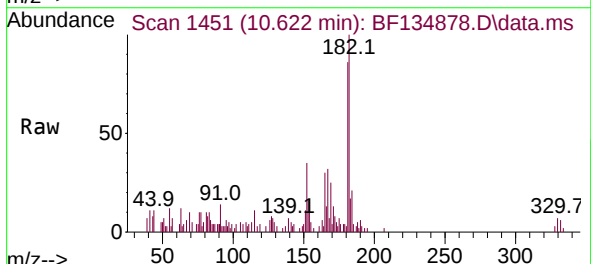
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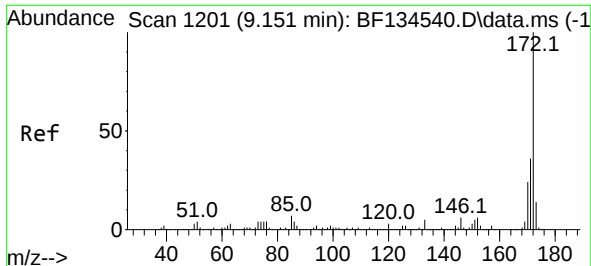
Tgt Ion:164 Resp: 284154
Ion Ratio Lower Upper
164 100
162 103.7 82.6 123.8
160 47.1 37.2 55.8



#42
2,4,6-Tribromophenol
Concen: 0.138 ng
RT: 10.622 min Scan# 1451
Delta R.T. -0.006 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

Tgt Ion:330 Resp: 400
Ion Ratio Lower Upper
330 100
332 98.3 78.8 118.2
141 140.3 25.4 38.2#





#45

2-Fluorobiphenyl

Concen: 0.324 ng

RT: 9.145 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z83-84DL

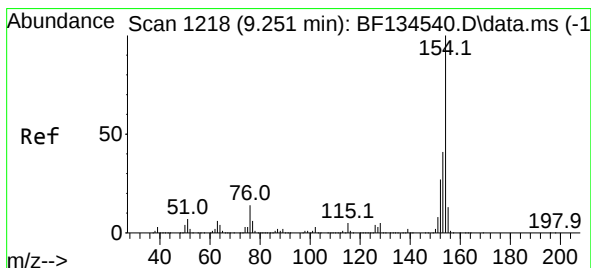
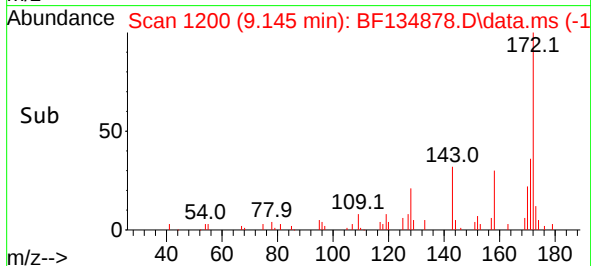
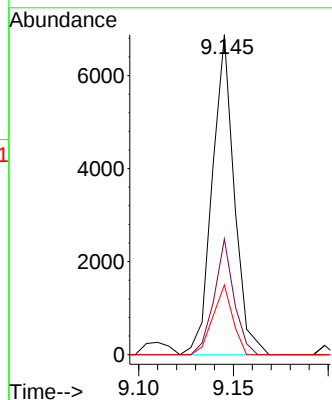
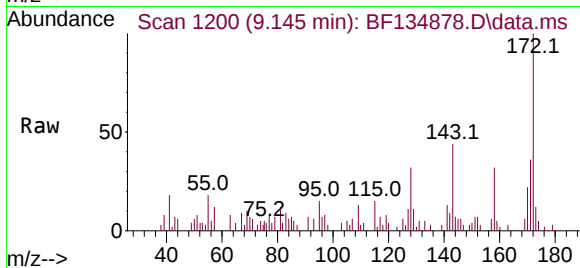
Tgt Ion:172 Resp: 5535

Ion Ratio Lower Upper

172 100

171 36.1 28.8 43.2

170 21.8 18.7 28.1



#46

1,1'-Biphenyl

Concen: 4.811 ng

RT: 9.245 min Scan# 1217

Delta R.T. -0.018 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

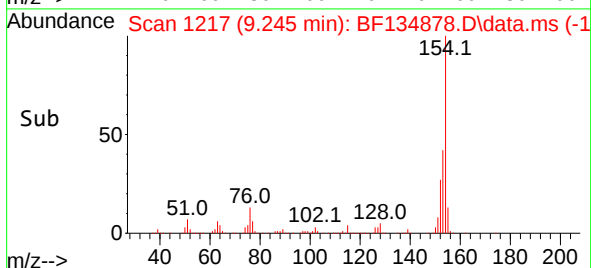
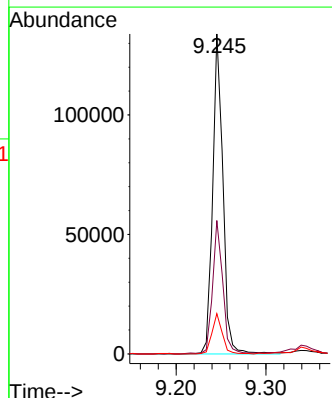
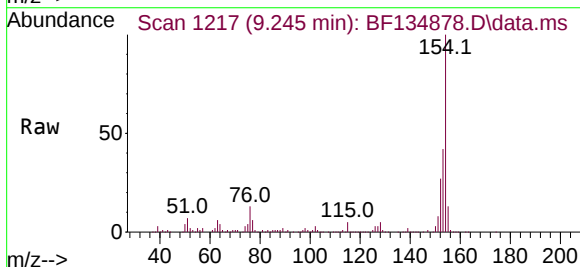
Tgt Ion:154 Resp: 106301

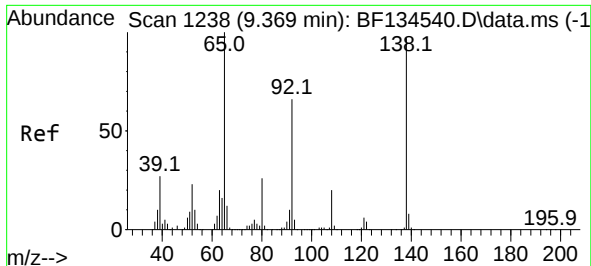
Ion Ratio Lower Upper

154 100

153 41.7 20.8 60.8

76 12.6 0.0 30.2

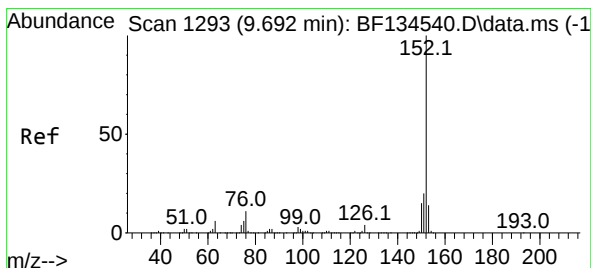
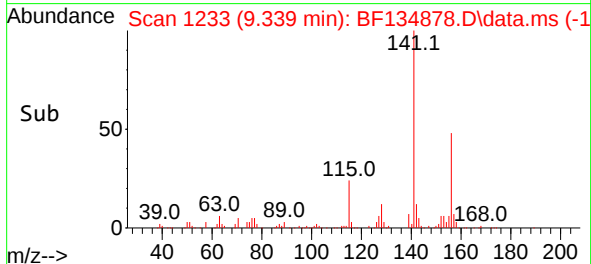
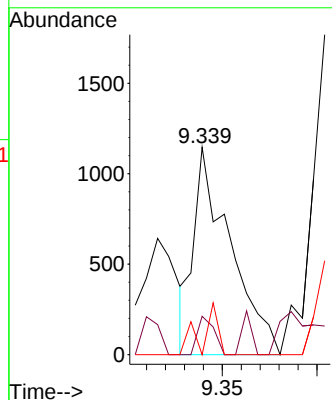
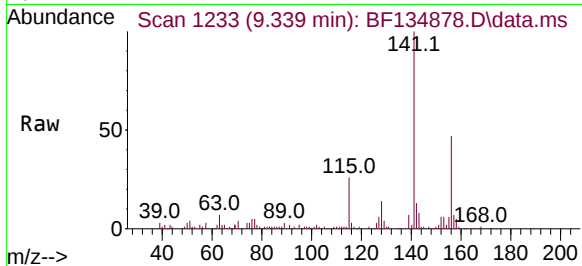




#48
2-Nitroaniline
Concen: 3.444 ng
RT: 9.339 min Scan# 11
Delta R.T. -0.041 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

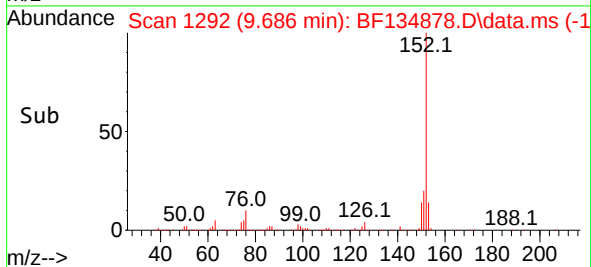
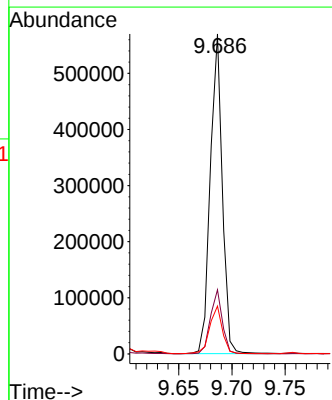
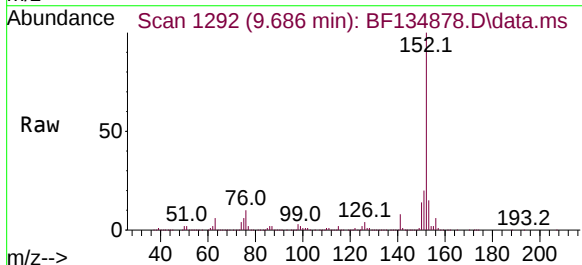
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z83-84DL

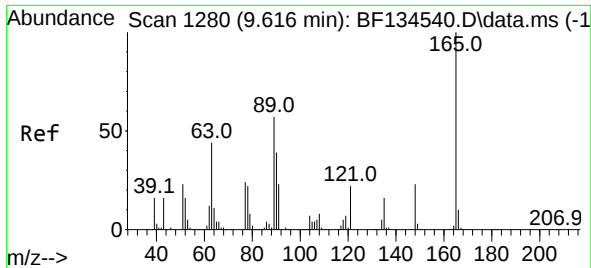
Tgt Ion: 65 Resp: 1538
Ion Ratio Lower Upper
65 100
92 18.5 50.7 76.1#
138 0.0 78.2 117.4#



#49
Acenaphthylene
Concen: 17.204 ng
RT: 9.686 min Scan# 1292
Delta R.T. -0.012 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

Tgt Ion: 152 Resp: 447751
Ion Ratio Lower Upper
152 100
151 20.0 16.4 24.6
153 14.9 10.9 16.3

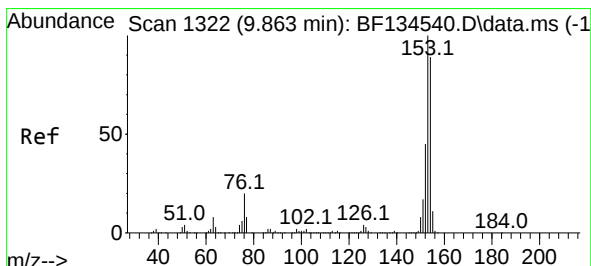
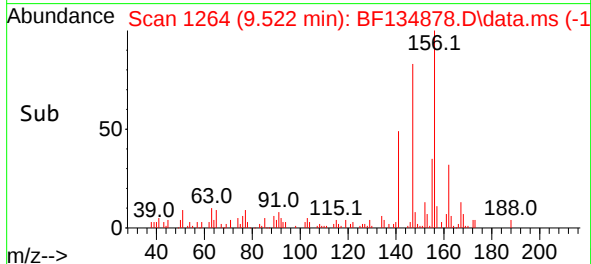
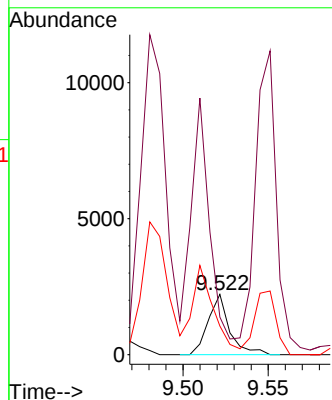
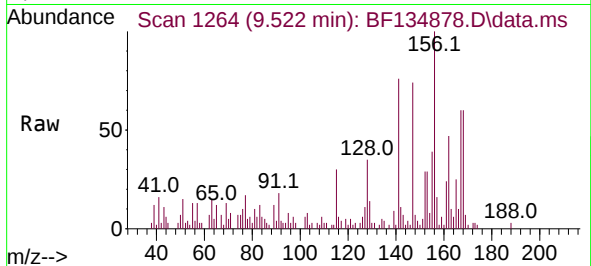




#51
2,6-Dinitrotoluene
Concen: 2.957 ng
RT: 9.522 min Scan# 11
Delta R.T. -0.106 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

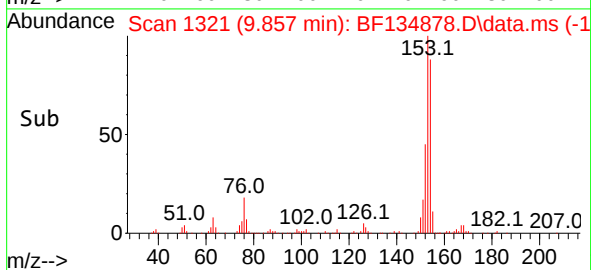
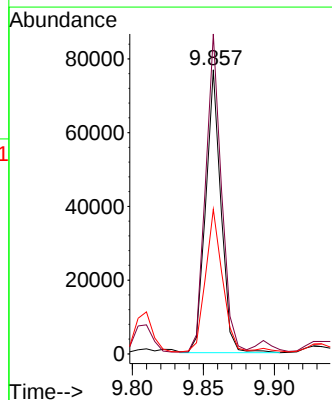
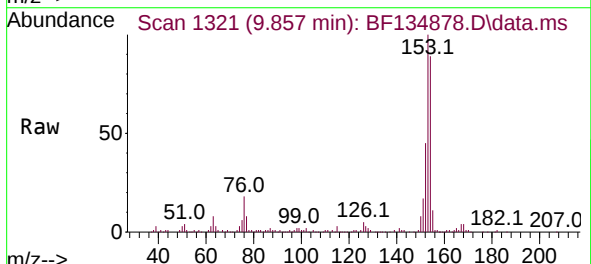
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z83-84DL

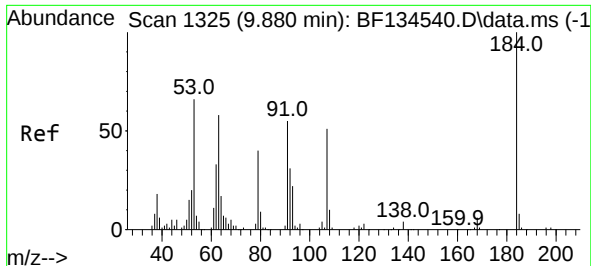
Tgt Ion:165 Resp: 1933
Ion Ratio Lower Upper
165 100
63 62.3 57.8 86.6
89 47.4 51.8 77.8#



#52
Acenaphthene
Concen: 3.401 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.018 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

Tgt Ion:154 Resp: 57367
Ion Ratio Lower Upper
154 100
153 112.6 90.0 135.0
152 50.9 42.4 63.6

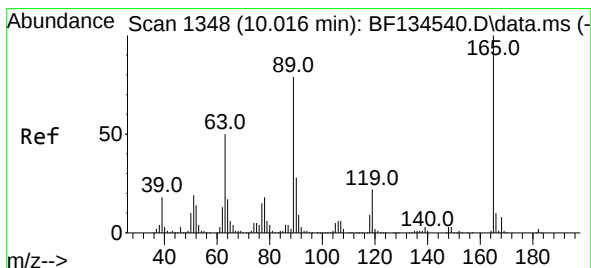
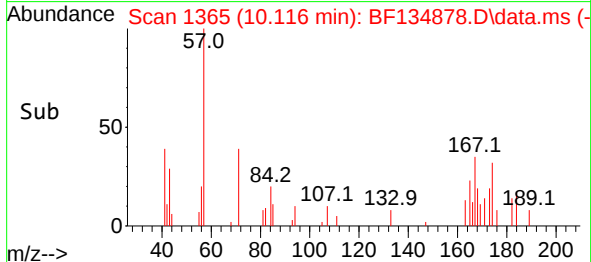
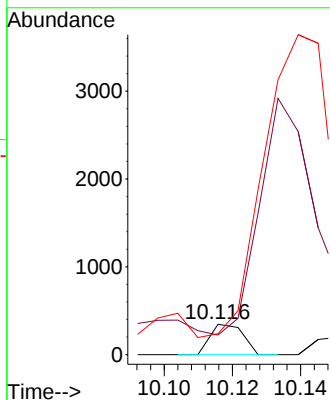
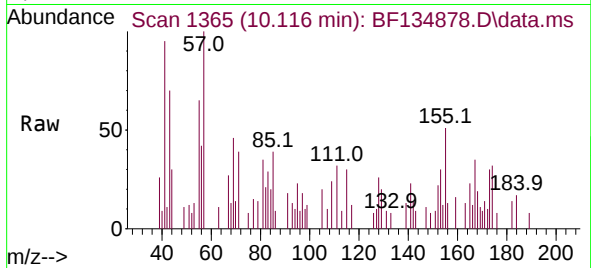




#54
2,4-Dinitrophenol
Concen: 6.976 ng
RT: 10.116 min Scan# 1365
Delta R.T. 0.218 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

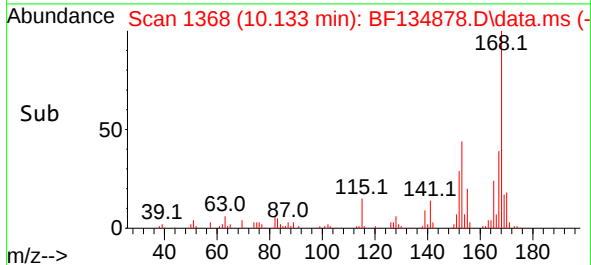
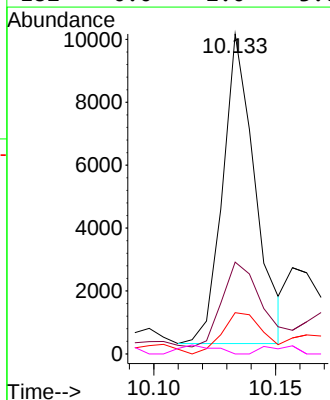
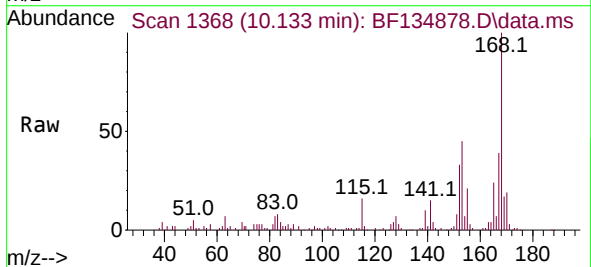
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z83-84DL

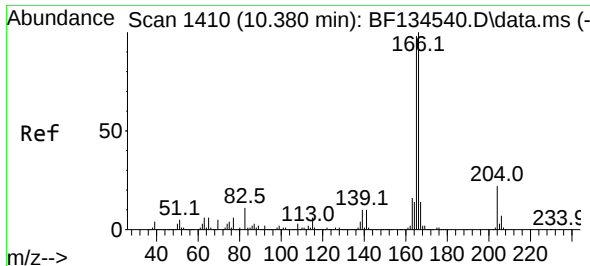
Tgt Ion:184 Resp: 231
Ion Ratio Lower Upper
184 100
63 64.9 57.1 85.7
154 69.3 59.1 88.7



#57
2,4-Dinitrotoluene
Concen: 4.638 ng
RT: 10.133 min Scan# 1368
Delta R.T. 0.106 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

Tgt Ion:165 Resp: 9109
Ion Ratio Lower Upper
165 100
63 28.7 48.9 73.3#
89 12.9 61.7 92.5#
182 0.0 2.0 3.0#

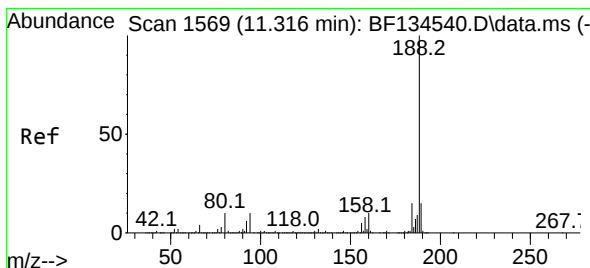
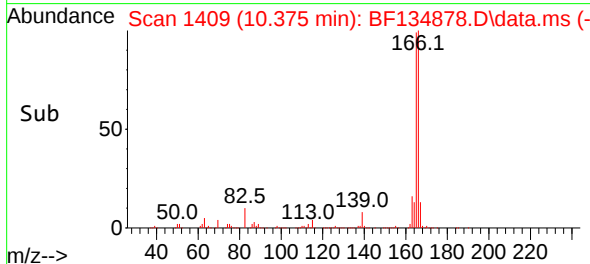
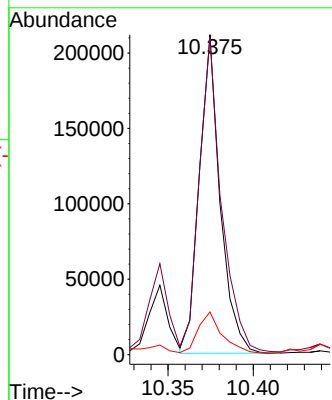
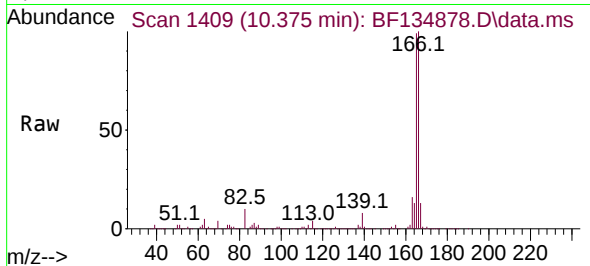




#58
Fluorene
Concen: 10.289 ng
RT: 10.375 min Scan# 1410
Delta R.T. -0.012 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

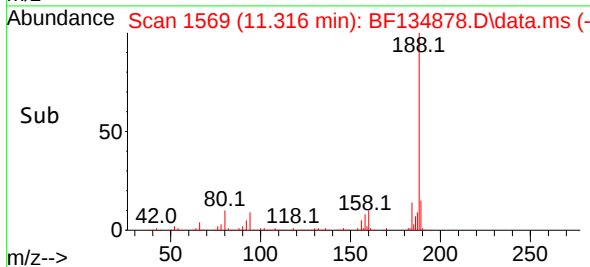
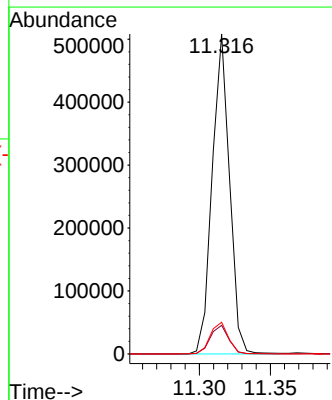
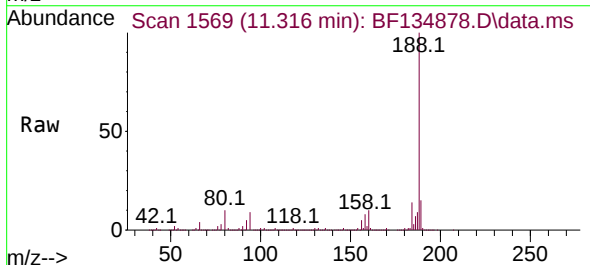
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z83-84DL

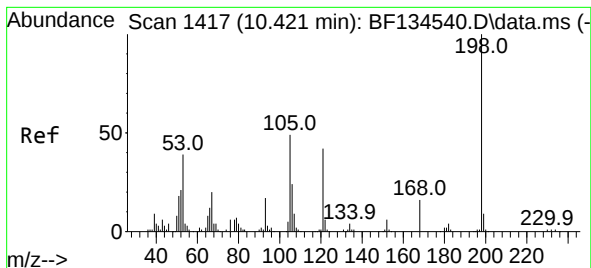
Tgt Ion:166 Resp: 179928
Ion Ratio Lower Upper
166 100
165 99.3 74.5 111.7
167 13.4 10.6 16.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

Tgt Ion:188 Resp: 431273
Ion Ratio Lower Upper
188 100
94 8.9 5.1 7.7#
80 9.9 6.6 9.8#

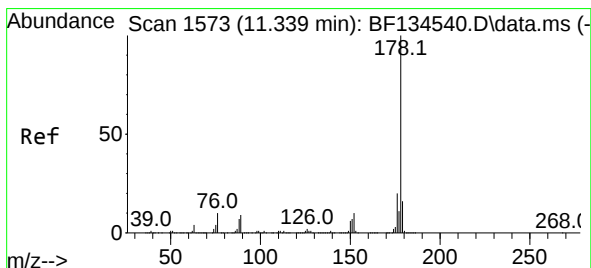
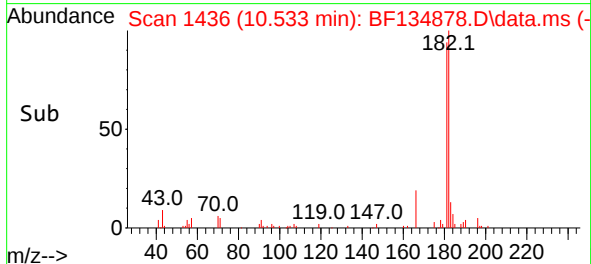
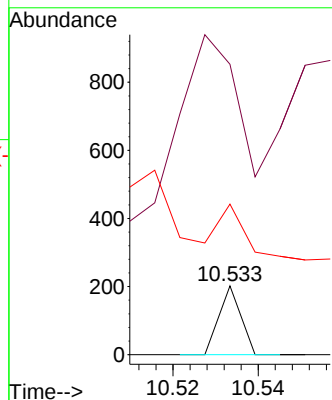
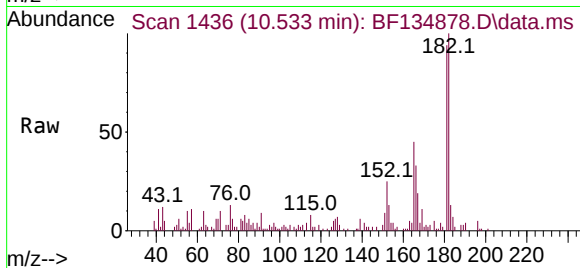




#65
4,6-Dinitro-2-methylphenol
Concen: 8.732 ng
RT: 10.533 min Scan# 1417
Delta R.T. 0.094 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

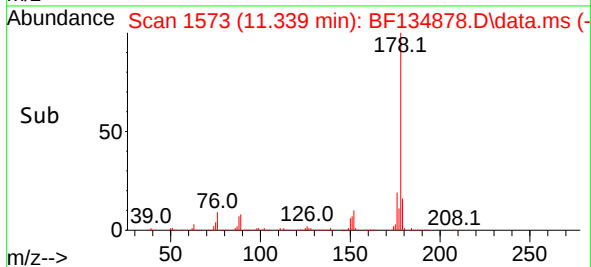
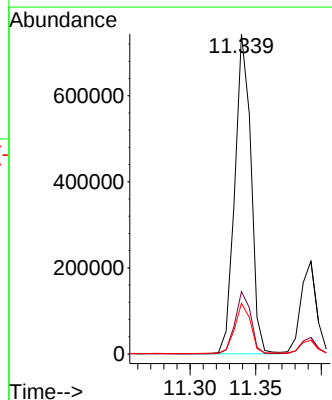
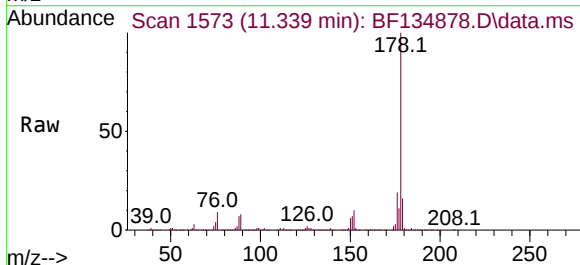
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB05-Z83-84DL

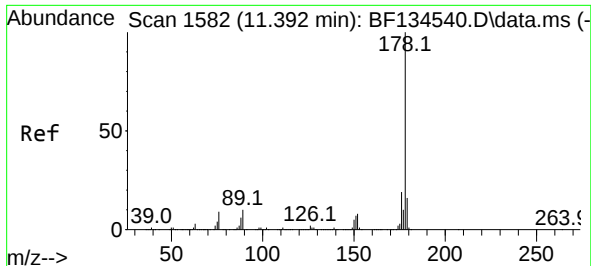
Tgt Ion:198 Resp: 71
Ion Ratio Lower Upper
198 100
51 422.3 38.6 78.6#
105 218.8 27.9 67.9#



#71
Phenanthrene
Concen: 27.658 ng
RT: 11.339 min Scan# 1573
Delta R.T. -0.012 min
Lab File: BF134878.D
Acq: 21 Aug 2023 20:54

Tgt Ion:178 Resp: 633572
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.6
179 15.8 12.7 19.1

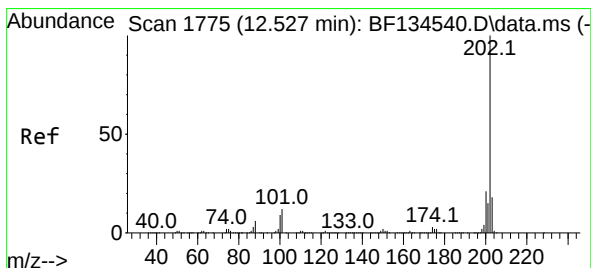
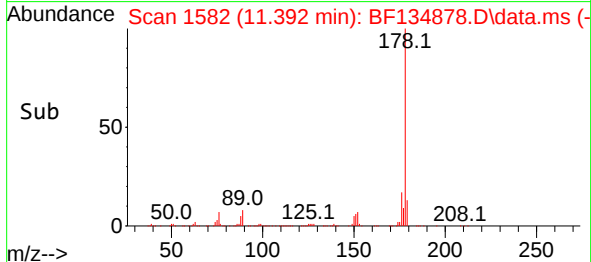
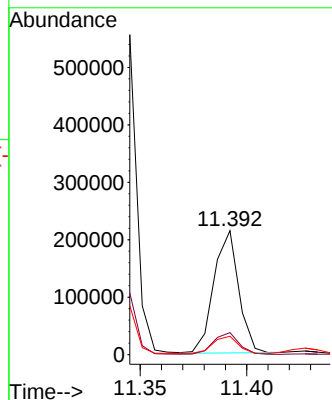
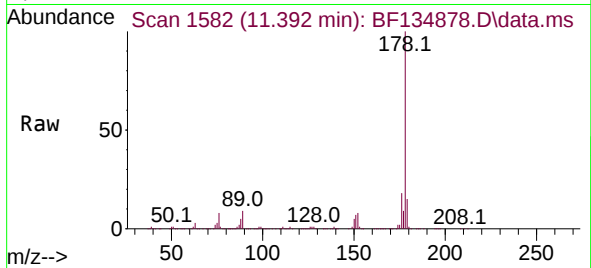




#72
 Anthracene
 Concen: 7.391 ng
 RT: 11.392 min Scan# 11
 Delta R.T. -0.012 min
 Lab File: BF134878.D
 Acq: 21 Aug 2023 20:54

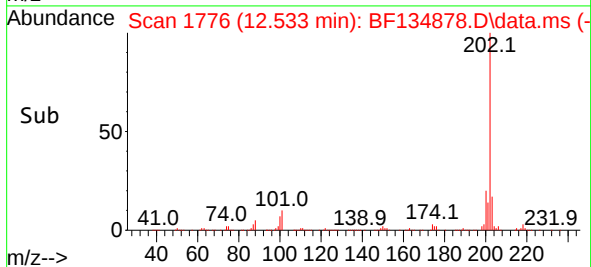
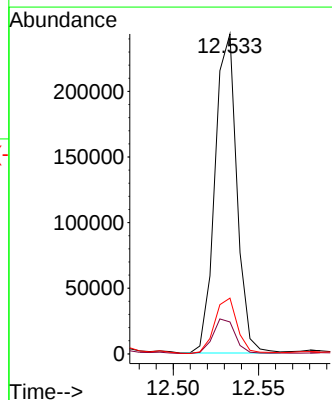
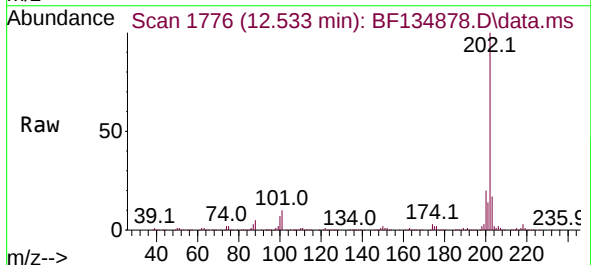
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z83-84DL

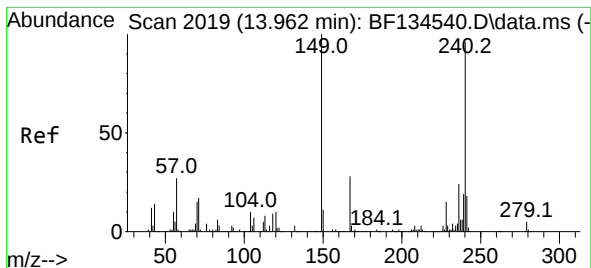
Tgt Ion:178 Resp: 172947
 Ion Ratio Lower Upper
 178 100
 176 17.7 14.6 21.8
 179 14.8 12.3 18.5



#75
 Fluoranthene
 Concen: 8.978 ng
 RT: 12.533 min Scan# 1776
 Delta R.T. -0.006 min
 Lab File: BF134878.D
 Acq: 21 Aug 2023 20:54

Tgt Ion:202 Resp: 217237
 Ion Ratio Lower Upper
 202 100
 101 10.0 0.0 28.5
 203 17.4 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 2019

Delta R.T. -0.012 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z83-84DL

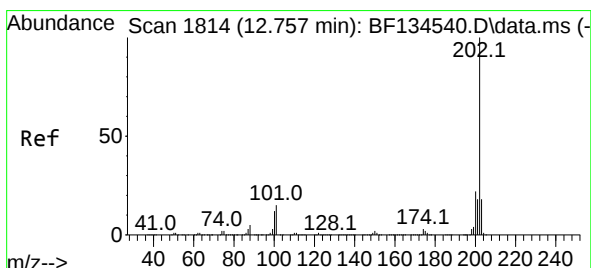
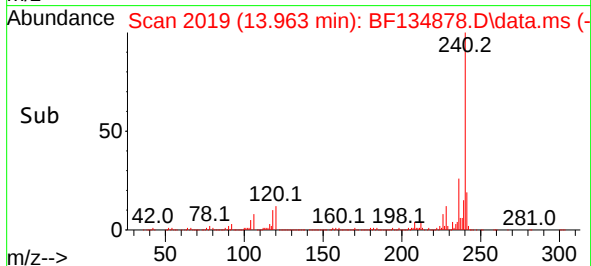
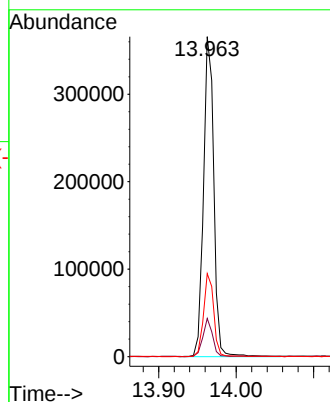
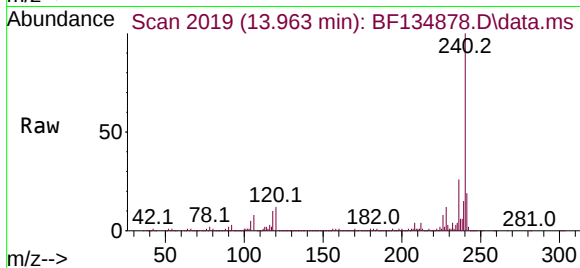
Tgt Ion:240 Resp: 337570

Ion Ratio Lower Upper

240 100

120 11.9 6.6 10.0#

236 25.9 20.2 30.2



#78

Pyrene

Concen: 11.273 ng

RT: 12.763 min Scan# 1815

Delta R.T. -0.006 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

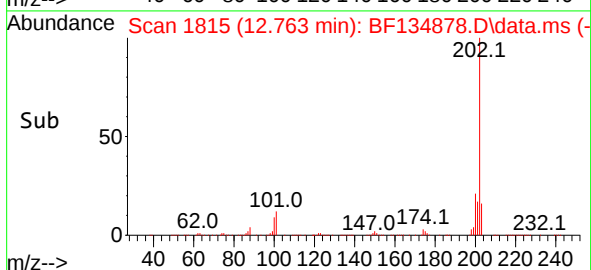
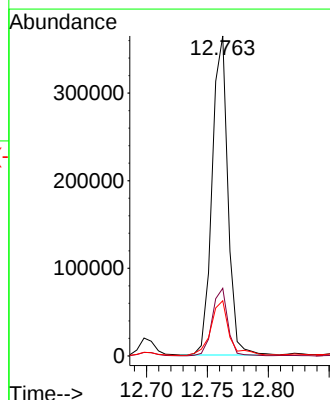
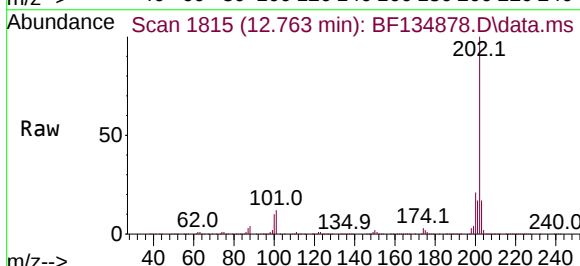
Tgt Ion:202 Resp: 329291

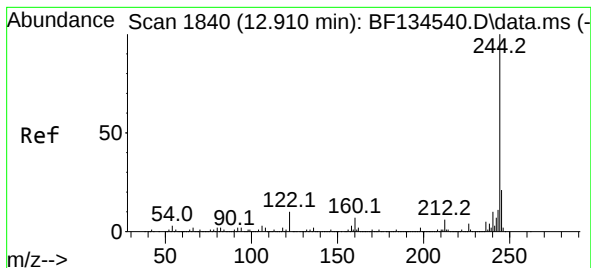
Ion Ratio Lower Upper

202 100

200 21.1 15.8 23.8

203 17.2 13.5 20.3





#79

Terphenyl-d14

Concen: 0.262 ng

RT: 12.904 min Scan# 1840

Delta R.T. -0.018 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z83-84DL

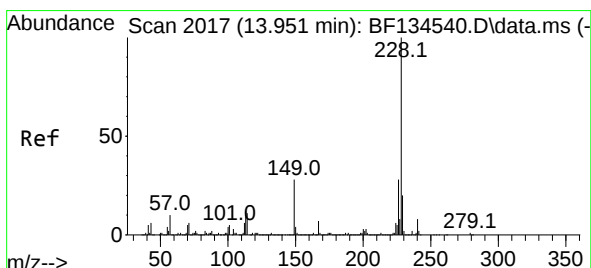
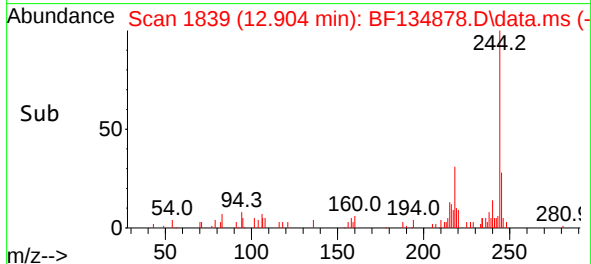
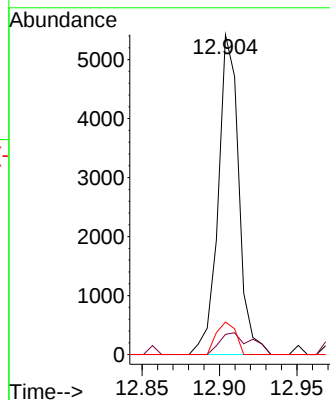
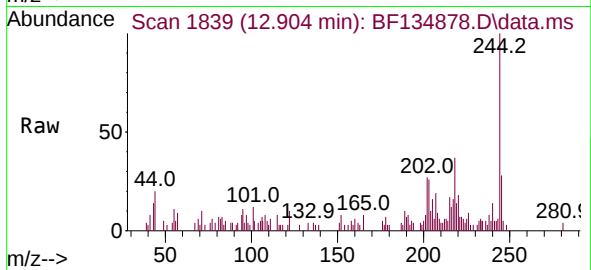
Tgt Ion:244 Resp: 5014

Ion Ratio Lower Upper

244 100

212 6.3 5.6 8.4

122 10.2 8.0 12.0



#81

Benzo(a)anthracene

Concen: 4.119 ng

RT: 13.992 min Scan# 2024

Delta R.T. 0.029 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

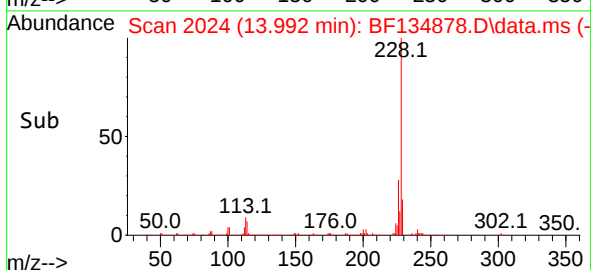
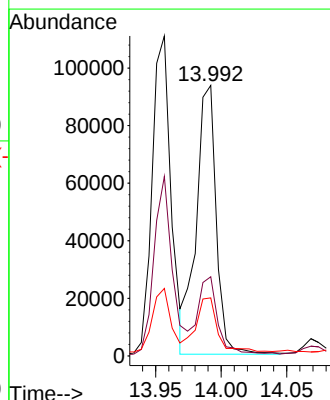
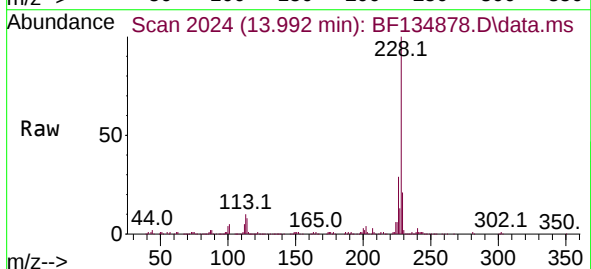
Tgt Ion:228 Resp: 99420

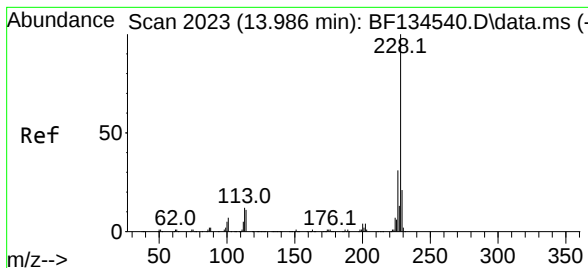
Ion Ratio Lower Upper

228 100

226 29.2 22.3 33.5

229 21.4 15.8 23.6





#83

Chrysene

Concen: 4.228 ng

RT: 13.992 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z83-84DL

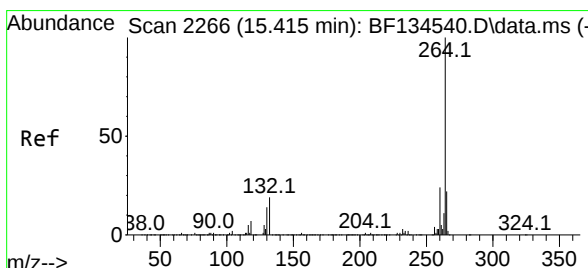
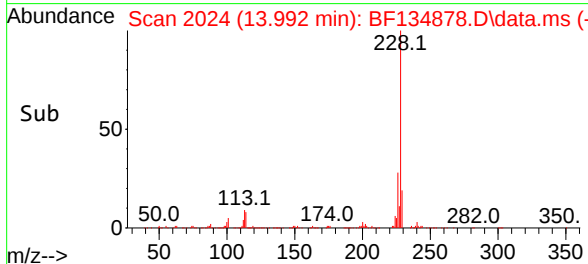
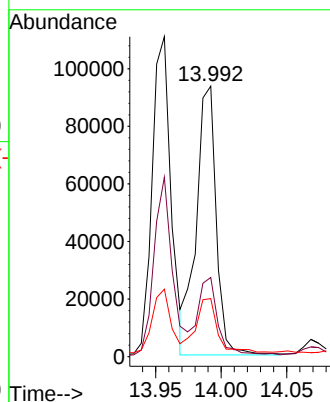
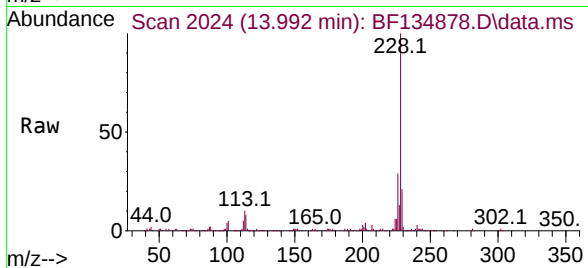
Tgt Ion:228 Resp: 99420

Ion Ratio Lower Upper

228 100

226 29.2 24.5 36.7

229 21.4 15.8 23.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 2269

Delta R.T. -0.006 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

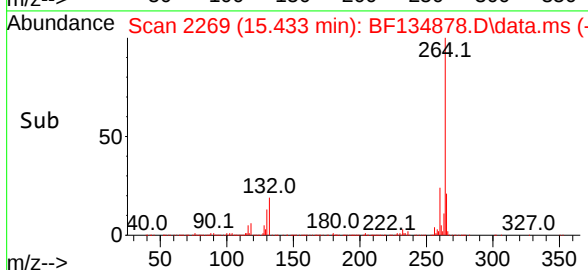
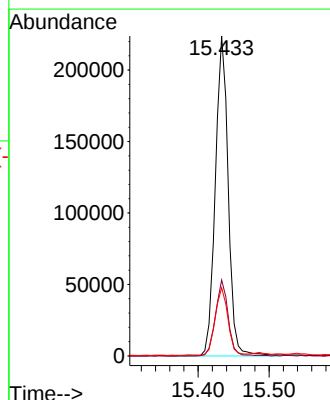
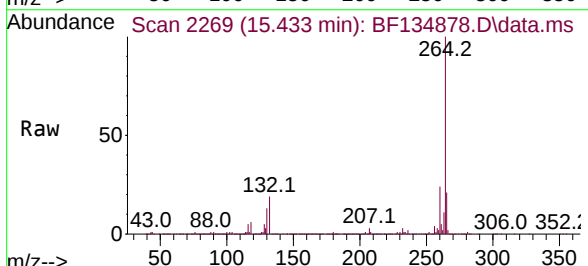
Tgt Ion:264 Resp: 282272

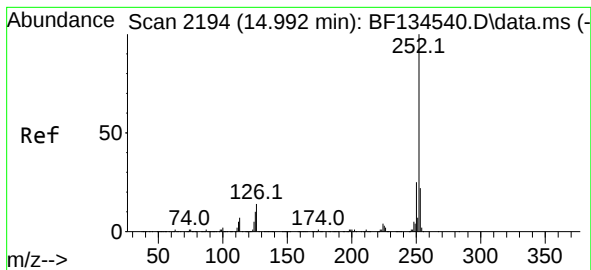
Ion Ratio Lower Upper

264 100

260 23.7 18.4 27.6

265 21.3 15.8 23.8





#88

Benzo(b)fluoranthene

Concen: 4.053 ng

RT: 15.004 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB05-Z83-84DL

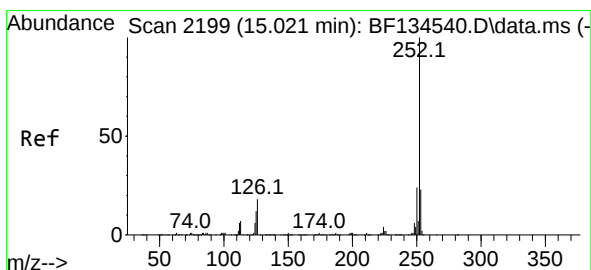
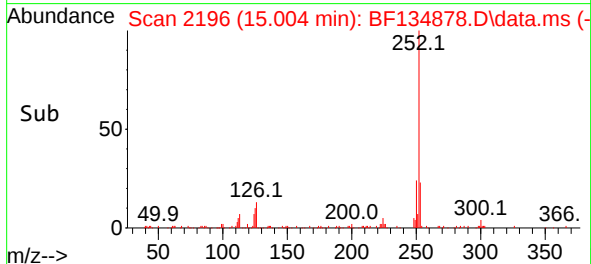
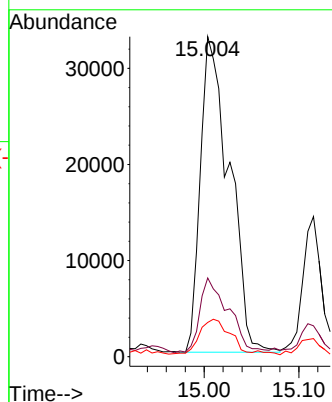
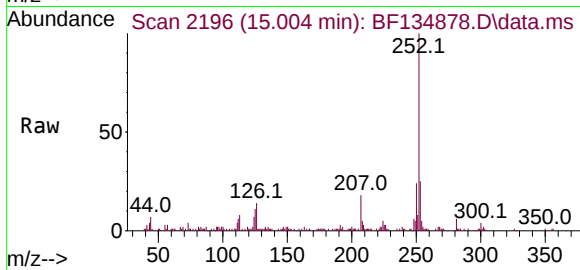
Tgt Ion:252 Resp: 69776

Ion Ratio Lower Upper

252 100

253 24.6 17.3 25.9

125 10.7 6.0 9.0#



#89

Benzo(k)fluoranthene

Concen: 4.069 ng

RT: 15.004 min Scan# 2196

Delta R.T. -0.035 min

Lab File: BF134878.D

Acq: 21 Aug 2023 20:54

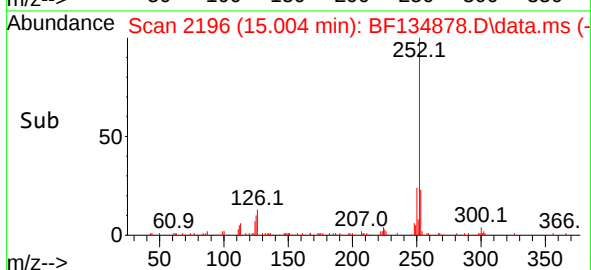
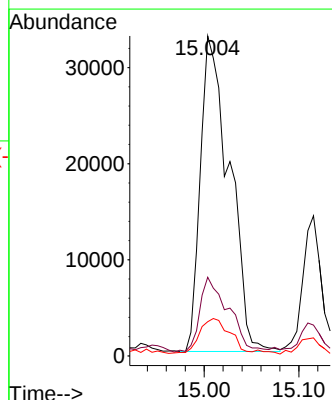
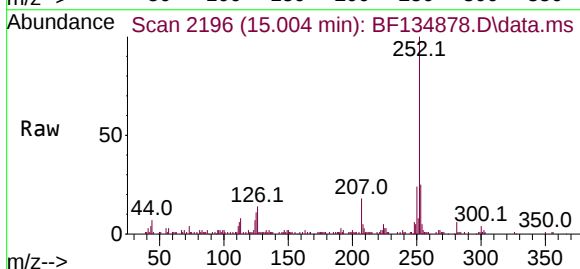
Tgt Ion:252 Resp: 69776

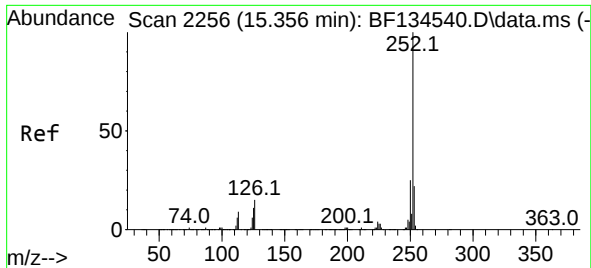
Ion Ratio Lower Upper

252 100

253 24.6 17.9 26.9

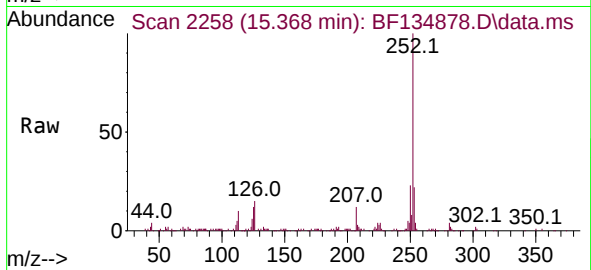
125 10.7 6.3 9.5#





#90
 Benzo(a)pyrene
 Concen: 3.812 ng
 RT: 15.368 min Scan# 21
 Delta R.T. -0.012 min
 Lab File: BF134878.D
 Acq: 21 Aug 2023 20:54

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB05-Z83-84DL



Tgt Ion:252 Resp: 61195
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.0 25.4
 125 11.8 6.2 9.4#

