

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF071423\
 Data File : BF134303.D
 Acq On : 14 Jul 2023 22:30
 Operator : CG\JU
 Sample : 03592-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

Quant Time: Jul 15 01:14:35 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF062623.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 14 22:51:27 2023
 Response via : Initial Calibration

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

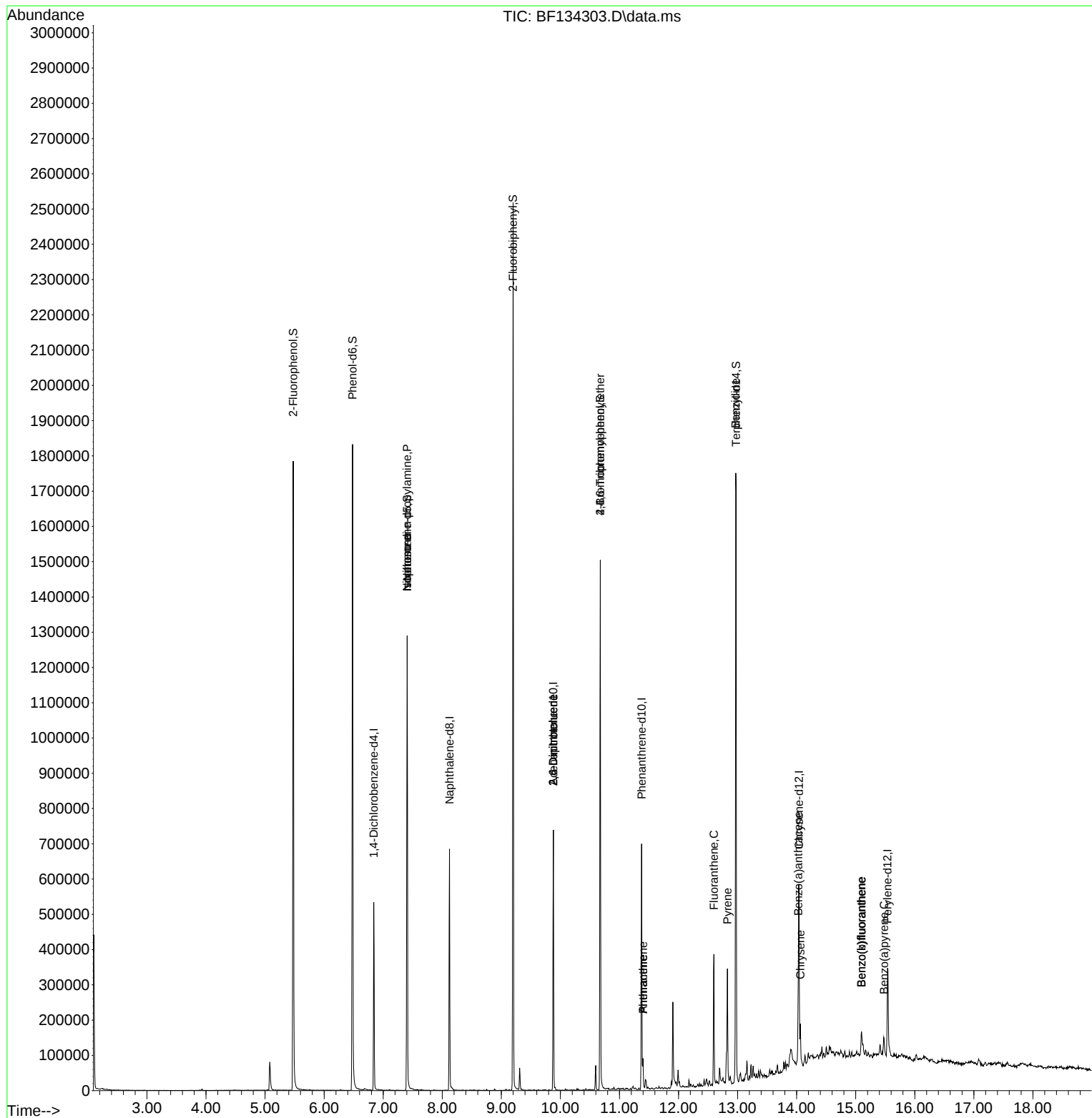
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.840	152	73642	20.000	ng	0.00
21) Naphthalene-d8	8.122	136	276130	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	134632	20.000	ng	0.00
64) Phenanthrene-d10	11.375	188	240545	20.000	ng	0.00
76) Chrysene-d12	14.039	240	166077	20.000	ng	0.00
86) Perylene-d12	15.539	264	129717	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	469360	106.615	ng	0.00
7) Phenol-d6	6.481	99	542559	100.212	ng	0.00
23) Nitrobenzene-d5	7.404	82	375294	73.264	ng	0.00
42) 2,4,6-Tribromophenol	10.675	330	170700	101.125	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	686232	74.106	ng	0.00
79) Terphenyl-d14	12.974	244	643140	62.325	ng	0.00
Target Compounds						Qvalue
9) Benzaldehyde	6.481	77	905	Below Cal	#	1
19) n-Nitroso-di-n-propyla...	7.404	70	52667	15.339	ng	# 73
25) Isophorone	7.404	82	375288	40.311	ng	# 64
51) 2,6-Dinitrotoluene	9.881	165	17690	8.404	ng	# 23
57) 2,4-Dinitrotoluene	9.881	165	17690	6.364	ng	# 22
67) 4-Bromophenyl-phenylether	10.675	248	10099	3.950	ng	# 1
71) Phenanthrene	11.398	178	28351	2.341	ng	100
72) Anthracene	11.398	178	28351	2.251	ng	98
75) Fluoranthene	12.598	202	147425	11.261	ng	98
77) Benzidine	12.969	184	9305	2.355	ng	# 91
78) Pyrene	12.827	202	128389	8.307	ng	100
81) Benzo(a)anthracene	14.027	228	61873	5.372	ng	99
83) Chrysene	14.063	228	43823	3.928	ng	97
88) Benzo(b)fluoranthene	15.098	252	53389	7.000	ng	# 91
89) Benzo(k)fluoranthene	15.098	252	53389	6.875	ng	# 90
90) Benzo(a)pyrene	15.480	252	24117	3.270	ng	95

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

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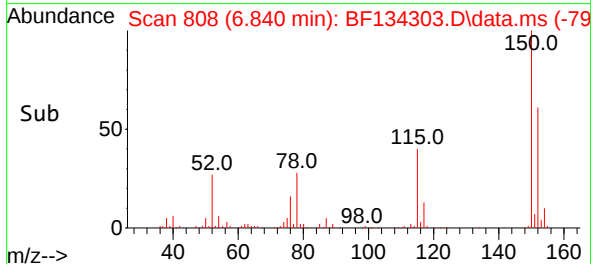
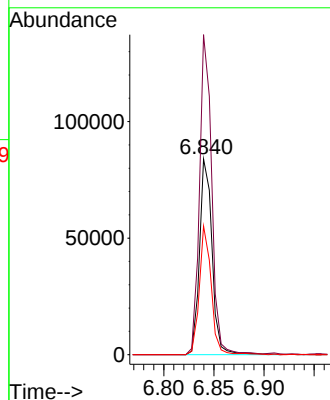
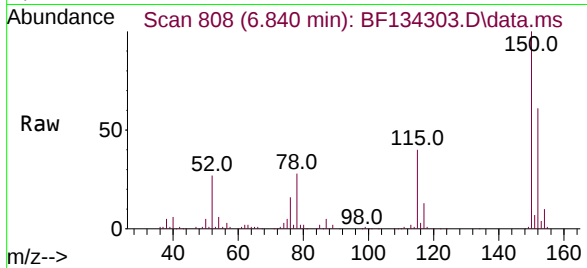




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.840 min Scan# 80
Delta R.T. -0.005 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

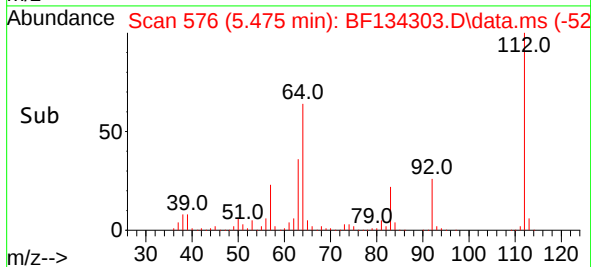
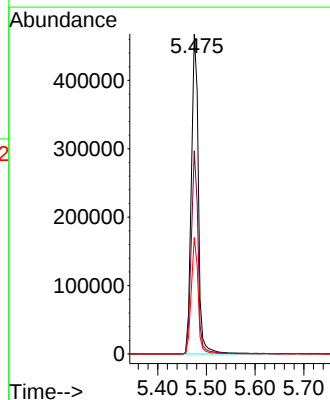
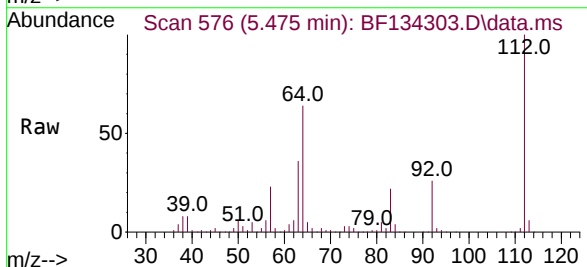
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

Tgt Ion:152 Resp: 73642
Ion Ratio Lower Upper
152 100
150 163.5 124.5 186.7
115 65.7 50.2 75.2



#5
2-Fluorophenol
Concen: 106.615 ng
RT: 5.475 min Scan# 576
Delta R.T. 0.006 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

Tgt Ion:112 Resp: 469360
Ion Ratio Lower Upper
112 100
64 63.5 52.1 78.1
63 36.4 28.6 42.8





#7

Phenol-d6

Concen: 100.212 ng

RT: 6.481 min Scan# 74

Delta R.T. -0.006 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

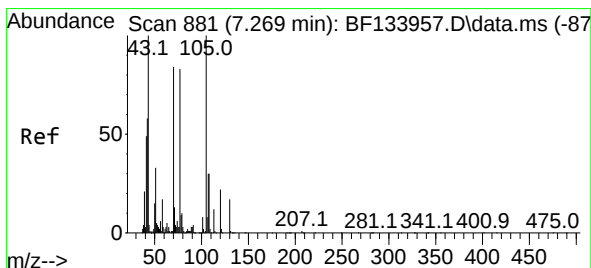
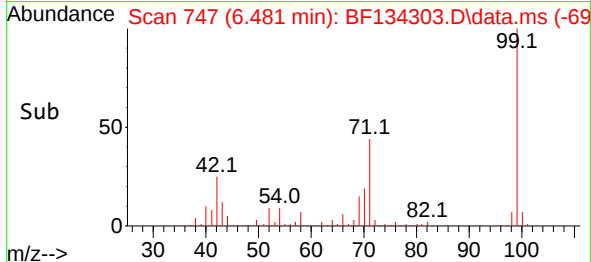
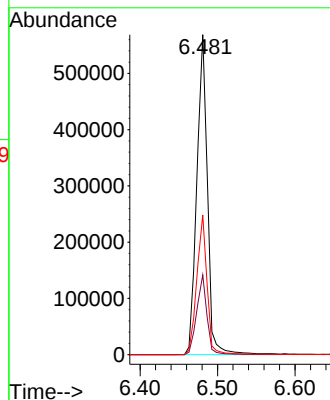
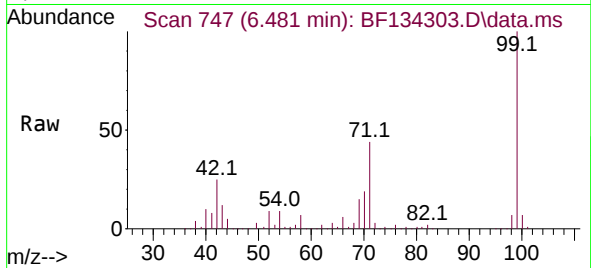
Tgt Ion: 99 Resp: 542559

Ion Ratio Lower Upper

99 100

42 25.0 19.8 29.6

71 43.6 31.9 47.9



#19

n-Nitroso-di-n-propylamine

Concen: 15.339 ng

RT: 7.404 min Scan# 904

Delta R.T. 0.147 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Tgt Ion: 70 Resp: 52667

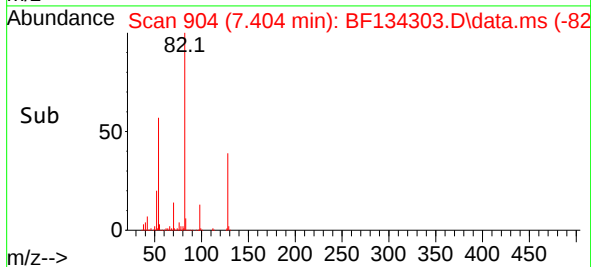
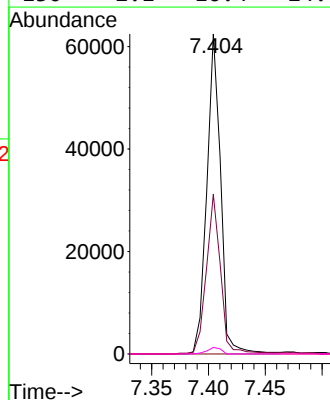
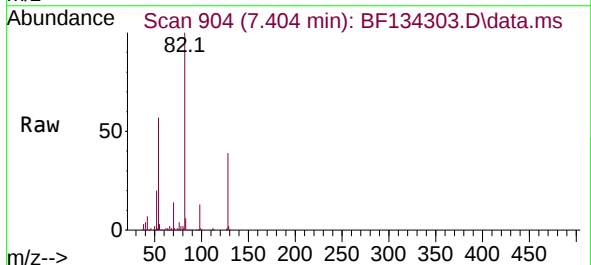
Ion Ratio Lower Upper

70 100

42 49.9 54.7 82.1#

101 0.0 7.7 11.5#

130 2.1 16.4 24.6#



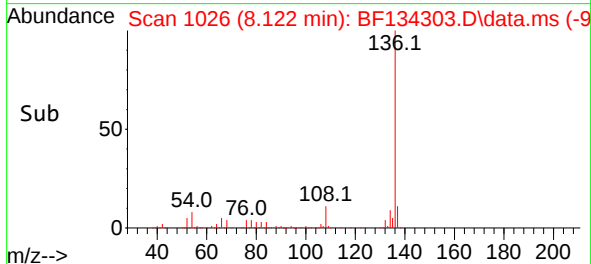
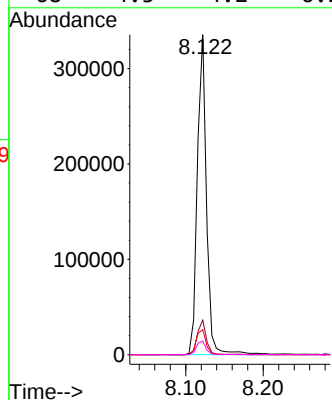
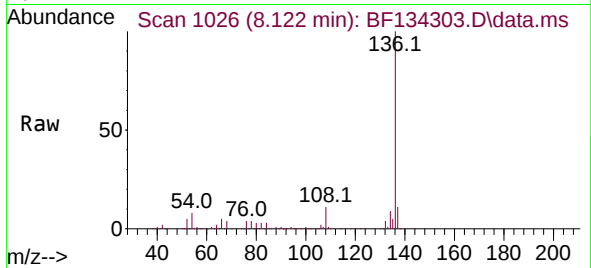


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.122 min Scan# 1026
Delta R.T. 0.000 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

Tgt Ion:136 Resp: 276130

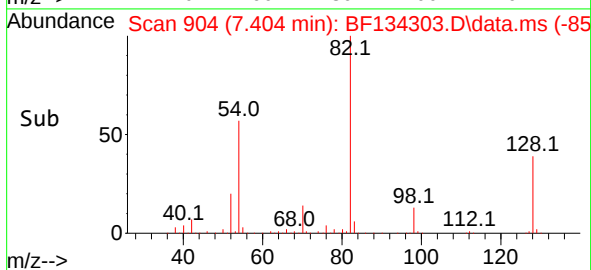
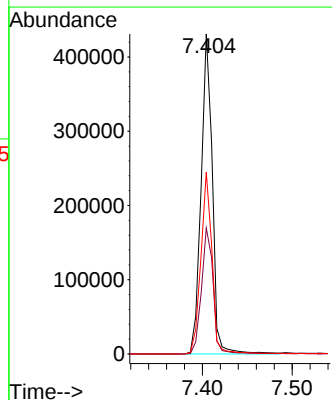
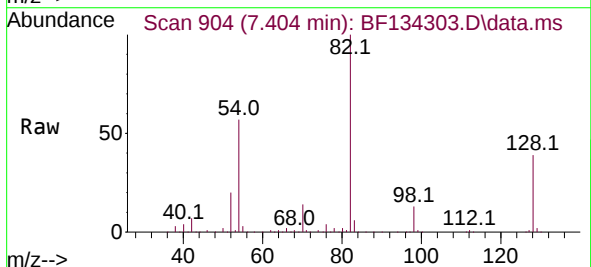
Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	7.8	6.5	9.7
68	4.3	4.2	6.2



#23
Nitrobenzene-d5
Concen: 73.264 ng
RT: 7.404 min Scan# 904
Delta R.T. -0.006 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

Tgt Ion: 82 Resp: 375294

Ion	Ratio	Lower	Upper
82	100		
128	39.4	32.5	48.7
54	56.9	48.2	72.2

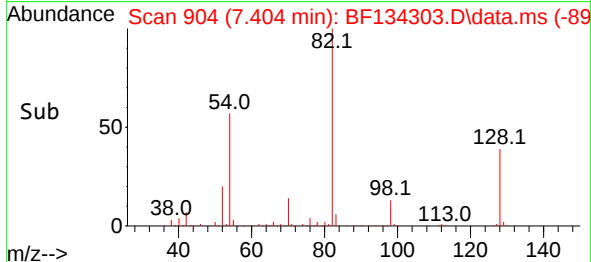
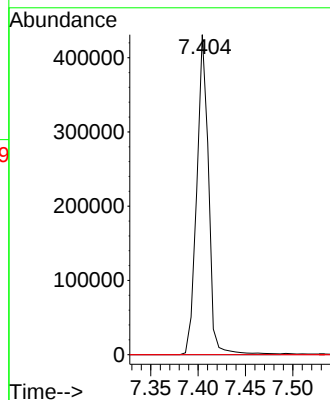
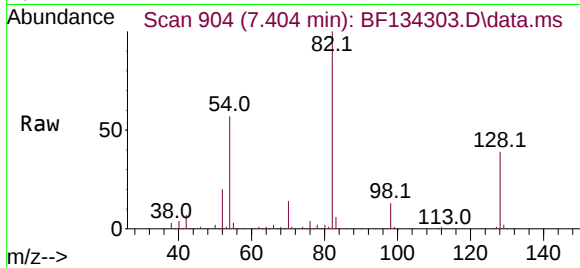




#25
Isophorone
Concen: 40.311 ng
RT: 7.404 min Scan# 90
Delta R.T. -0.259 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

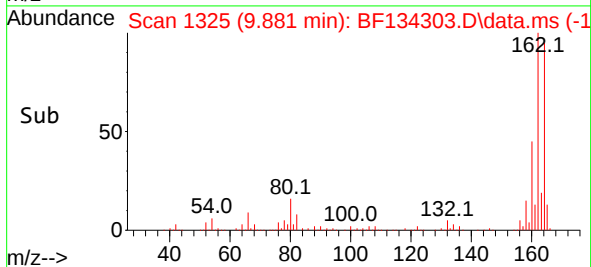
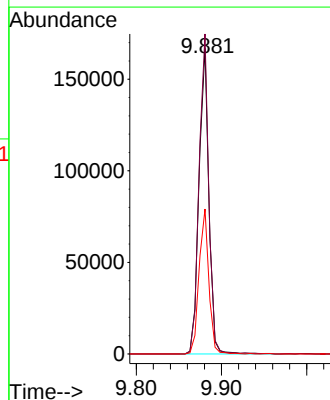
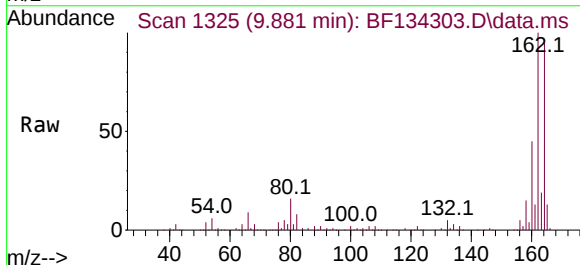
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

Tgt Ion: 82 Resp: 375288
Ion Ratio Lower Upper
82 100
95 0.0 6.1 9.1#
138 0.0 15.2 22.8#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 1325
Delta R.T. 0.000 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

Tgt Ion: 164 Resp: 134632
Ion Ratio Lower Upper
164 100
162 104.7 80.0 120.0
160 47.4 35.9 53.9





#42

2,4,6-Tribromophenol

Concen: 101.125 ng

RT: 10.675 min Scan# 1460

Delta R.T. -0.006 min

Lab File: BF134303.D

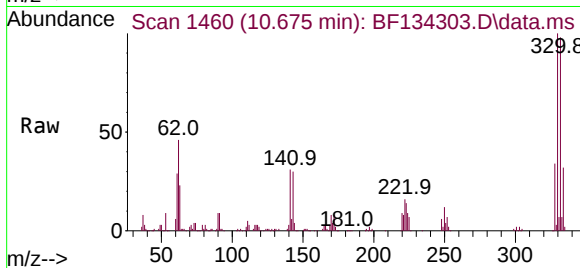
Acq: 14 Jul 2023 22:30

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE



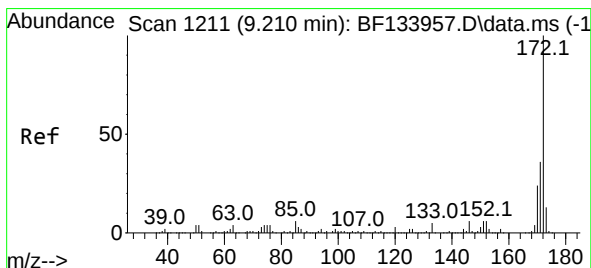
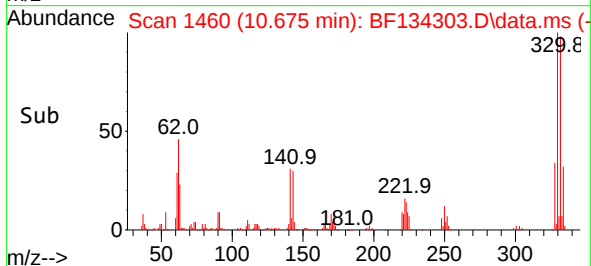
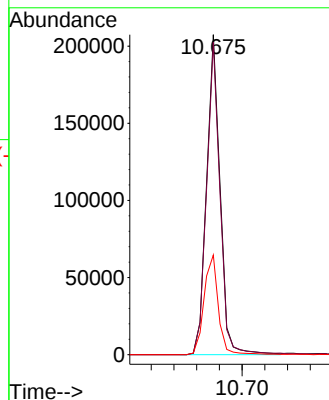
Tgt Ion:330 Resp: 170700

Ion Ratio Lower Upper

330 100

332 98.0 77.0 115.6

141 33.1 26.3 39.5



#45

2-Fluorobiphenyl

Concen: 74.106 ng

RT: 9.198 min Scan# 1209

Delta R.T. -0.006 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

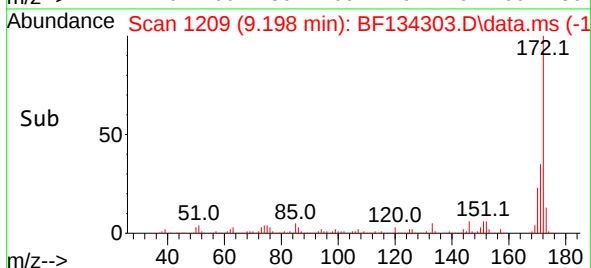
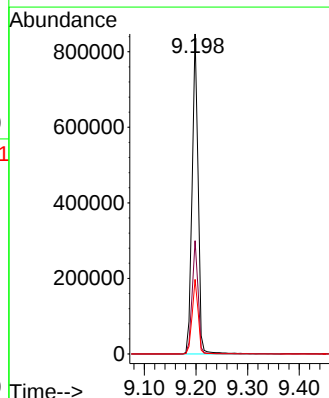
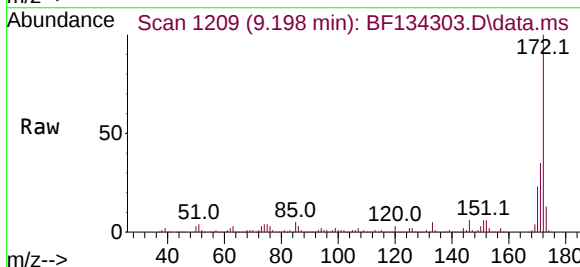
Tgt Ion:172 Resp: 686232

Ion Ratio Lower Upper

172 100

171 35.4 28.6 43.0

170 23.3 19.4 29.0





#51

2,6-Dinitrotoluene

Concen: 8.404 ng

RT: 9.881 min Scan# 11

Delta R.T. 0.206 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

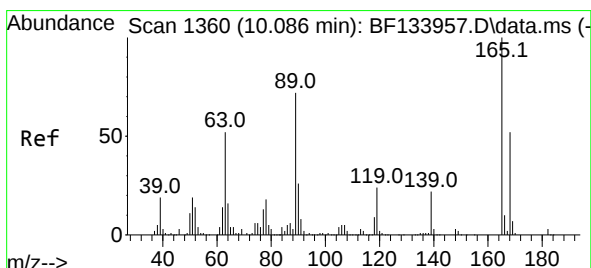
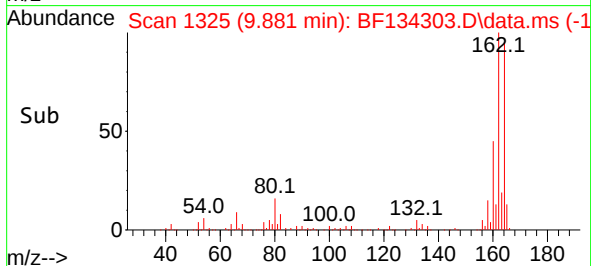
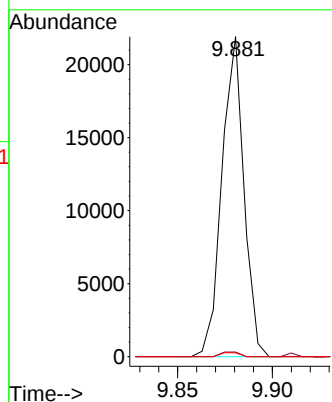
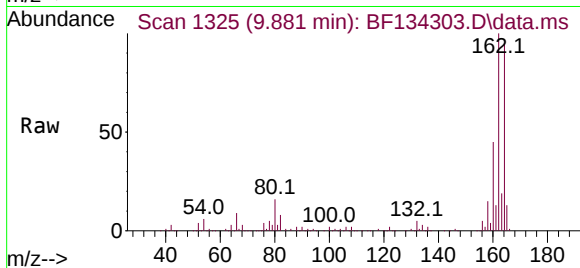
Tgt Ion:165 Resp: 17690

Ion Ratio Lower Upper

165 100

63 1.5 48.5 72.7#

89 1.2 45.5 68.3#



#57

2,4-Dinitrotoluene

Concen: 6.364 ng

RT: 9.881 min Scan# 1325

Delta R.T. -0.200 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Tgt Ion:165 Resp: 17690

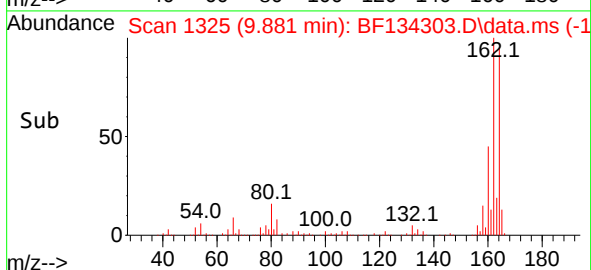
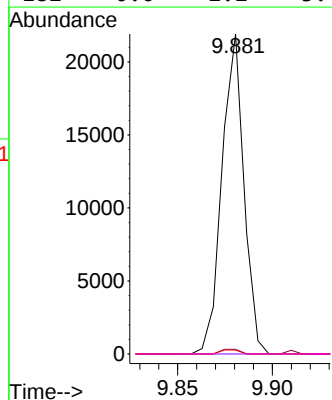
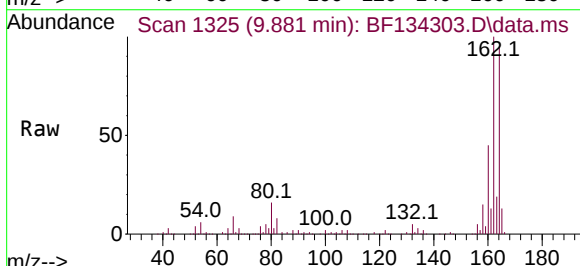
Ion Ratio Lower Upper

165 100

63 1.5 42.2 63.2#

89 1.2 57.4 86.2#

182 0.0 2.2 3.4#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.375 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

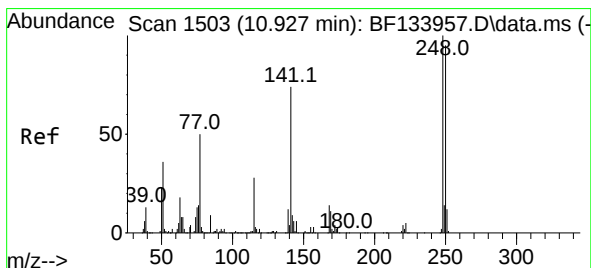
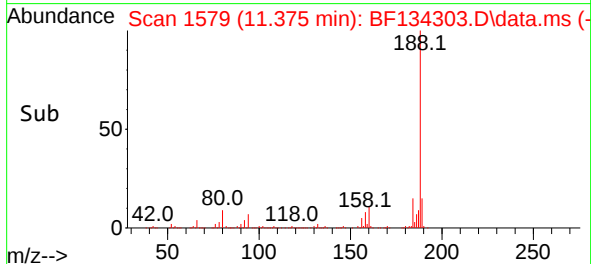
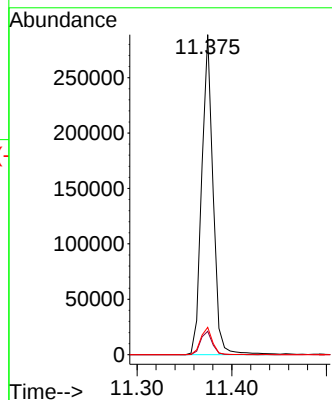
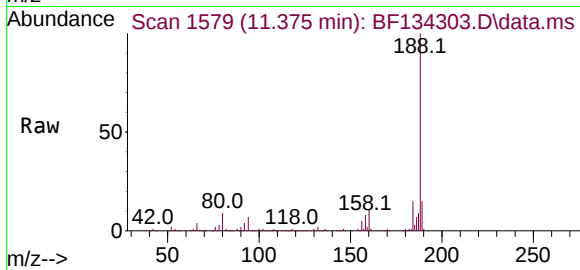
Tgt Ion:188 Resp: 240545

Ion Ratio Lower Upper

188 100

94 7.3 6.4 9.6

80 8.5 7.3 10.9



#67

4-Bromophenyl-phenylether

Concen: 3.950 ng

RT: 10.675 min Scan# 1460

Delta R.T. -0.241 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

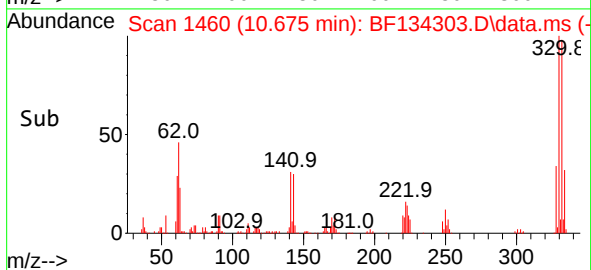
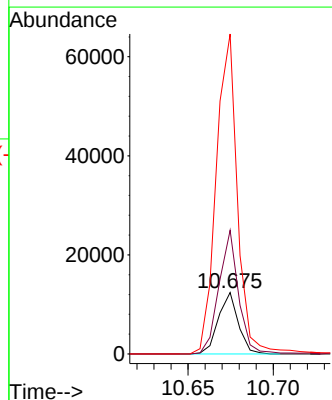
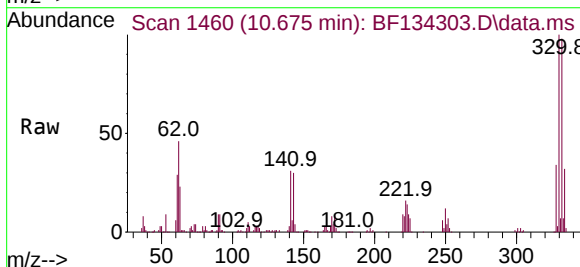
Tgt Ion:248 Resp: 10099

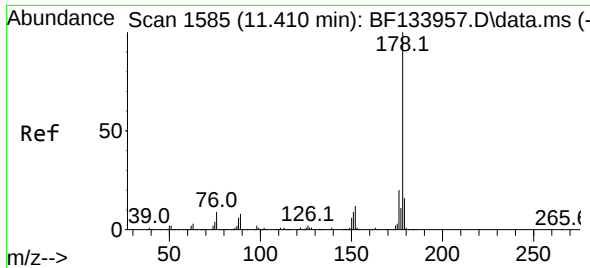
Ion Ratio Lower Upper

248 100

250 201.1 76.2 114.4#

141 520.1 59.0 88.4#

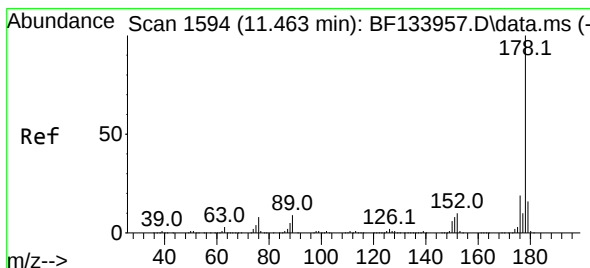
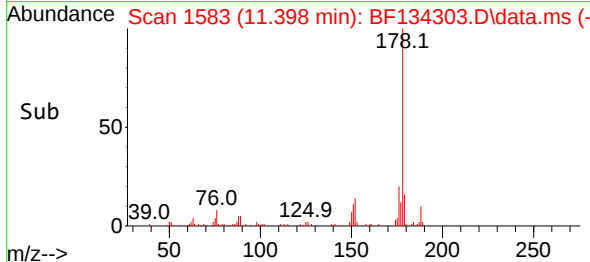
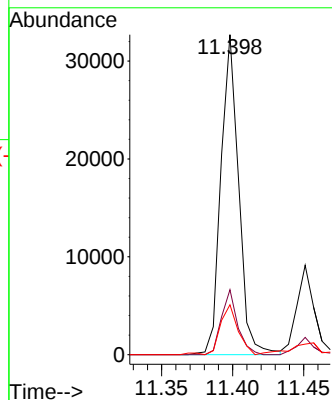
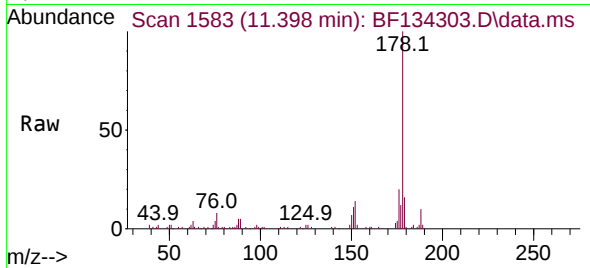




#71
Phenanthrene
Concen: 2.341 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.006 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

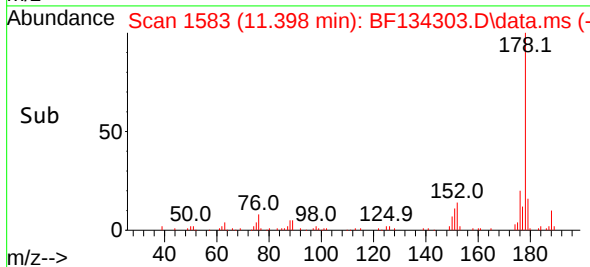
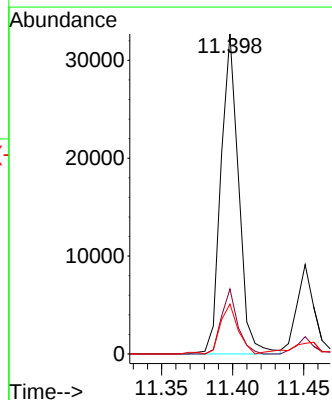
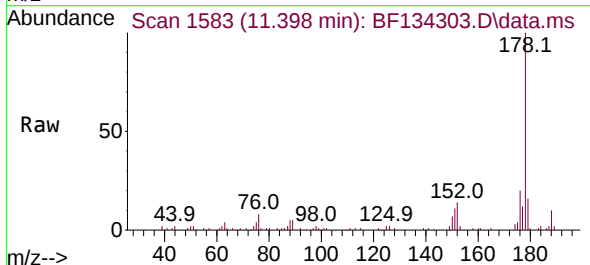
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

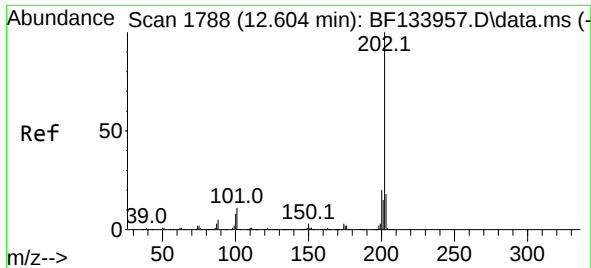
Tgt Ion:178 Resp: 28351
Ion Ratio Lower Upper
178 100
176 20.3 16.0 24.0
179 15.6 12.4 18.6



#72
Anthracene
Concen: 2.251 ng
RT: 11.398 min Scan# 1583
Delta R.T. -0.059 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

Tgt Ion:178 Resp: 28351
Ion Ratio Lower Upper
178 100
176 20.3 15.3 22.9
179 15.6 12.4 18.6

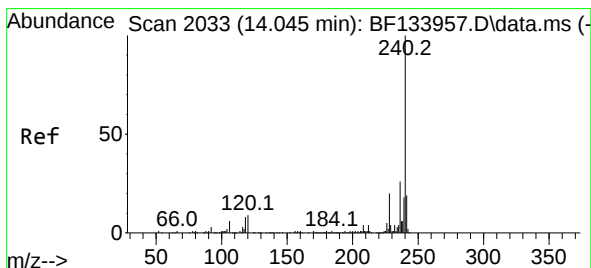
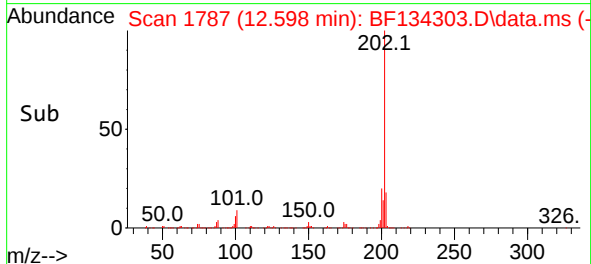
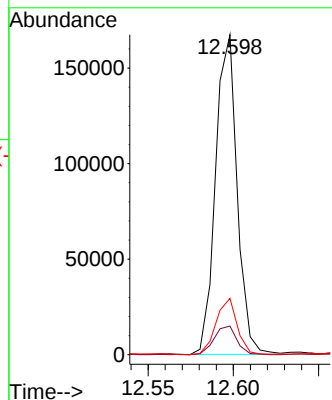
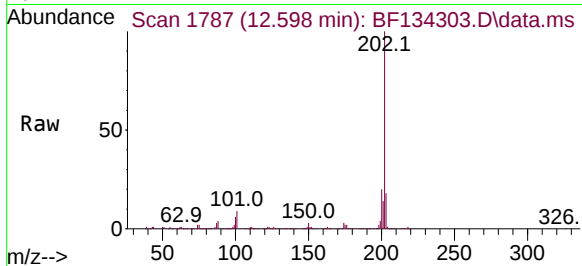




#75
Fluoranthene
Concen: 11.261 ng
RT: 12.598 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

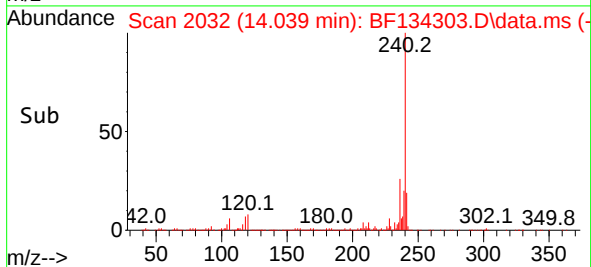
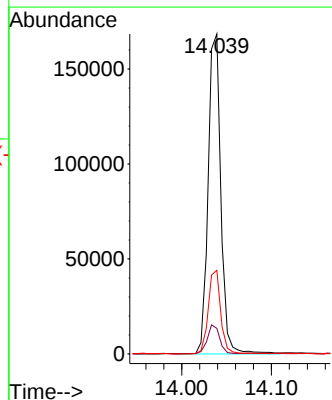
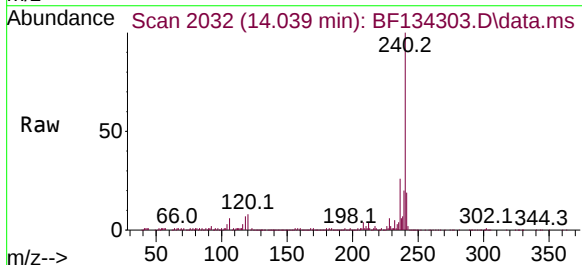
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

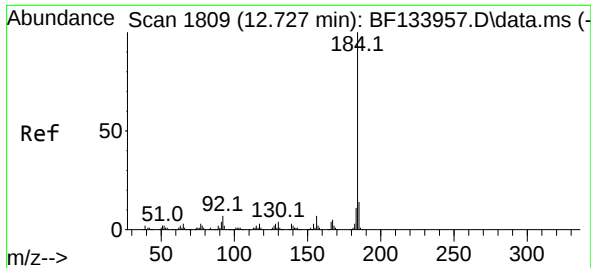
Tgt Ion:202 Resp: 147425
Ion Ratio Lower Upper
202 100
101 8.9 0.0 31.0
203 17.6 0.0 37.6



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2032
Delta R.T. 0.000 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

Tgt Ion:240 Resp: 166077
Ion Ratio Lower Upper
240 100
120 8.0 7.4 11.0
236 26.1 21.0 31.6

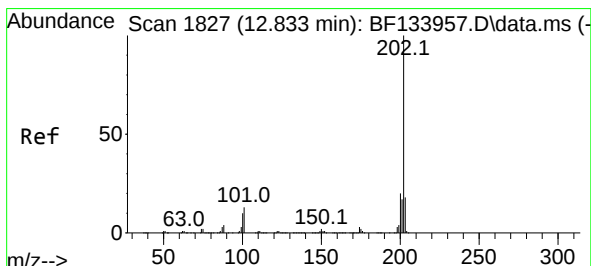
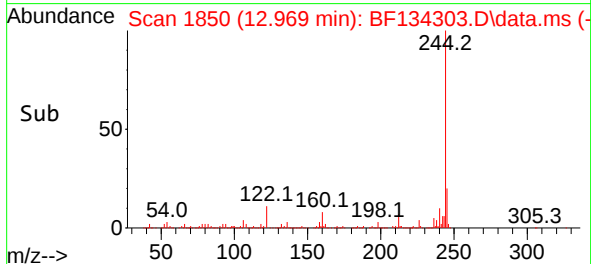
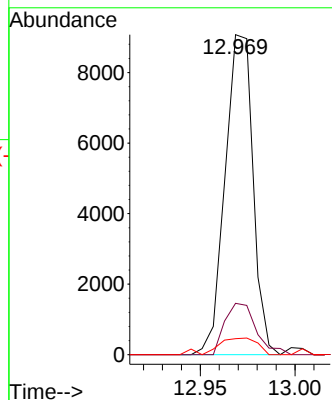
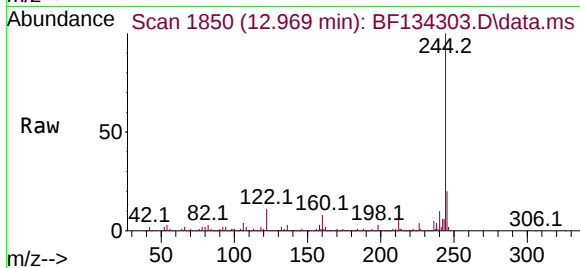




#77
Benzidine
Concen: 2.355 ng
RT: 12.969 min Scan# 1850
Delta R.T. 0.241 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

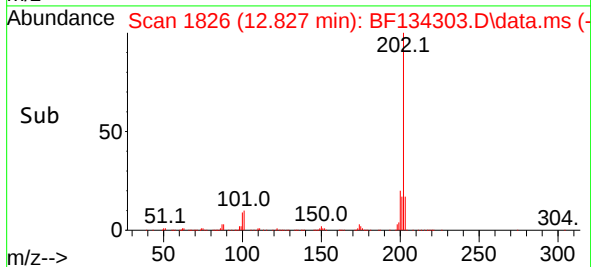
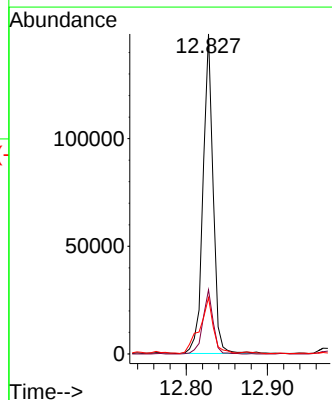
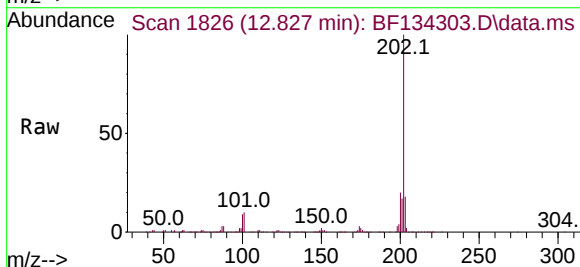
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

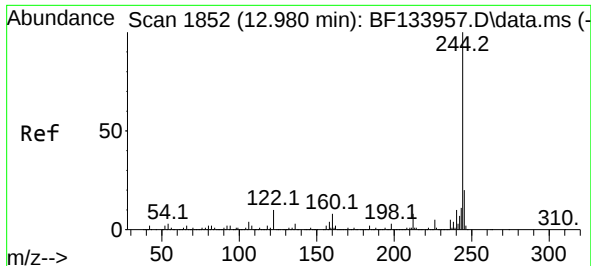
Tgt Ion:184 Resp: 9305
Ion Ratio Lower Upper
184 100
185 16.0 11.6 17.4
183 5.0 8.8 13.2#



#78
Pyrene
Concen: 8.307 ng
RT: 12.827 min Scan# 1826
Delta R.T. -0.006 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

Tgt Ion:202 Resp: 128389
Ion Ratio Lower Upper
202 100
200 20.1 16.1 24.1
203 17.6 14.3 21.5

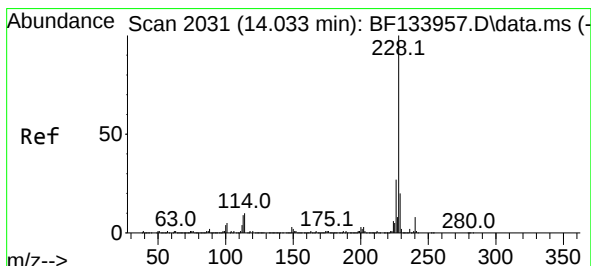
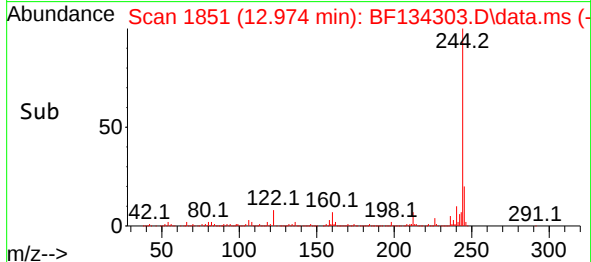
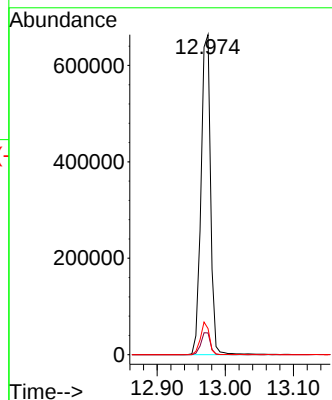
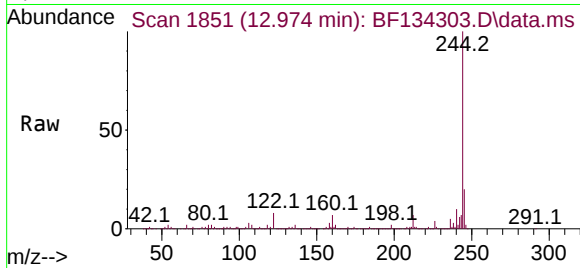




#79
 Terphenyl-d14
 Concen: 62.325 ng
 RT: 12.974 min Scan# 1851
 Delta R.T. 0.000 min
 Lab File: BF134303.D
 Acq: 14 Jul 2023 22:30

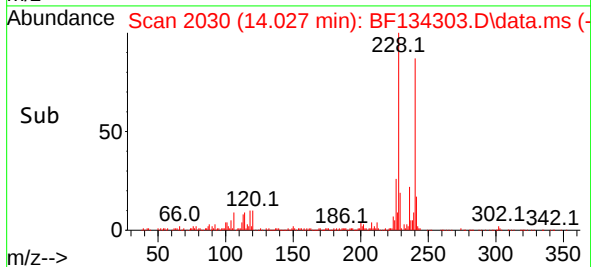
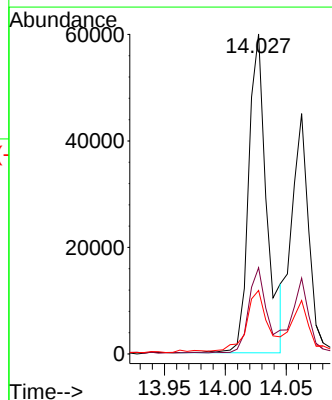
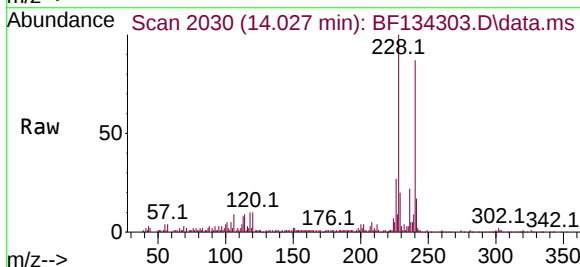
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE

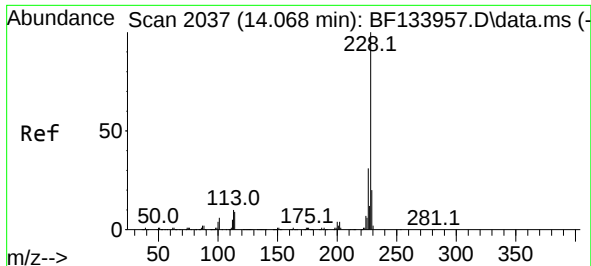
Tgt Ion:244 Resp: 643140
 Ion Ratio Lower Upper
 244 100
 212 6.8 6.0 9.0
 122 8.2 8.3 12.5#



#81
 Benzo(a)anthracene
 Concen: 5.372 ng
 RT: 14.027 min Scan# 2030
 Delta R.T. 0.000 min
 Lab File: BF134303.D
 Acq: 14 Jul 2023 22:30

Tgt Ion:228 Resp: 61873
 Ion Ratio Lower Upper
 228 100
 226 26.9 22.0 33.0
 229 19.8 16.3 24.5

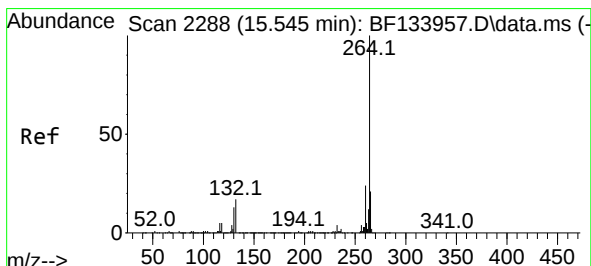
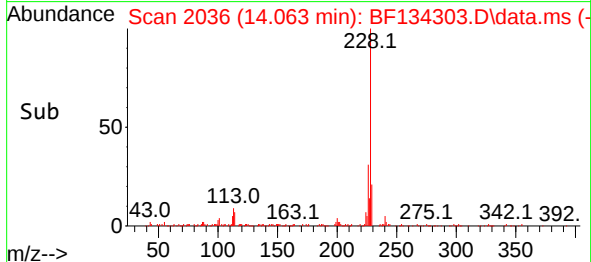
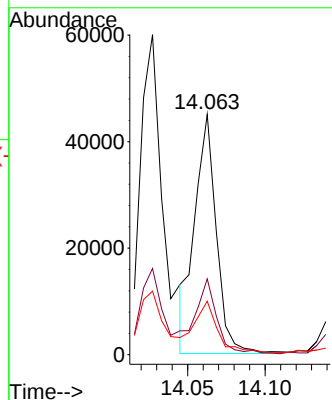
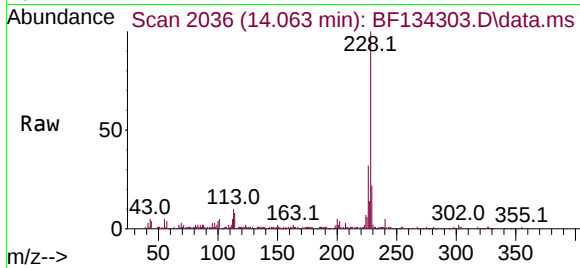




#83
Chrysene
Concen: 3.928 ng
RT: 14.063 min Scan# 2037
Delta R.T. -0.006 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

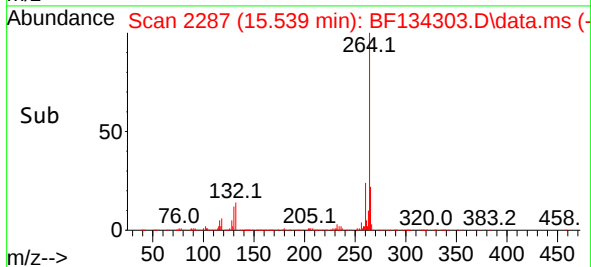
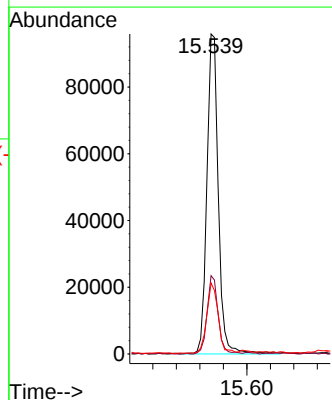
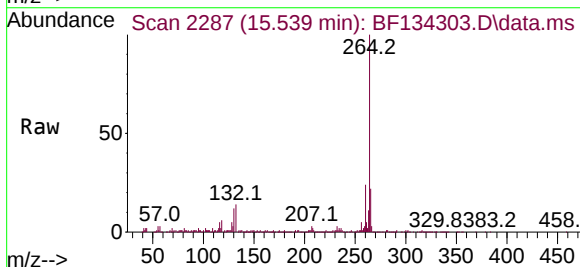
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE

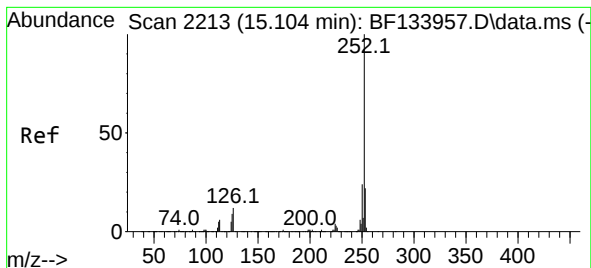
Tgt Ion:228 Resp: 43823
Ion Ratio Lower Upper
228 100
226 31.5 24.4 36.6
229 22.2 16.1 24.1



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2287
Delta R.T. -0.006 min
Lab File: BF134303.D
Acq: 14 Jul 2023 22:30

Tgt Ion:264 Resp: 129717
Ion Ratio Lower Upper
264 100
260 24.5 19.5 29.3
265 22.2 16.6 25.0





#88

Benzo(b)fluoranthene

Concen: 7.000 ng

RT: 15.098 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE

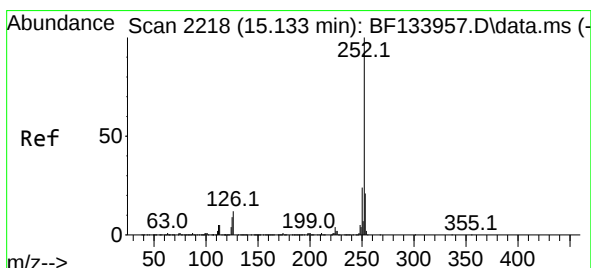
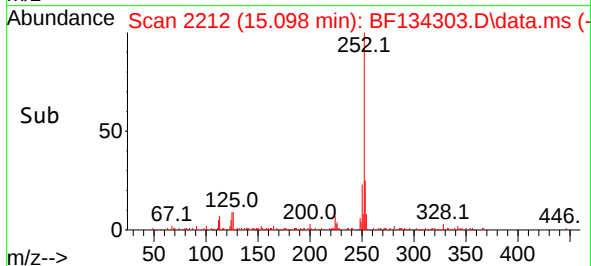
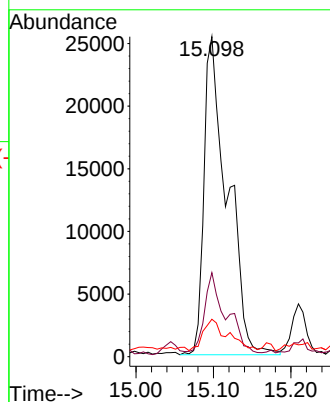
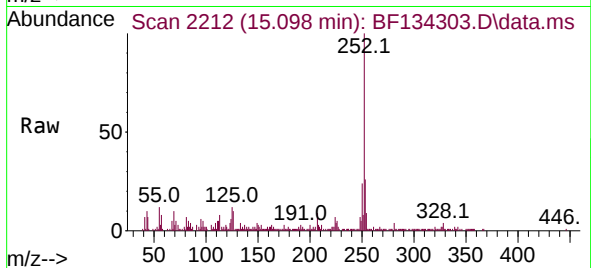
Tgt Ion:252 Resp: 53389

Ion Ratio Lower Upper

252 100

253 26.2 17.4 26.0#

125 11.7 7.1 10.7#



#89

Benzo(k)fluoranthene

Concen: 6.875 ng

RT: 15.098 min Scan# 2212

Delta R.T. -0.035 min

Lab File: BF134303.D

Acq: 14 Jul 2023 22:30

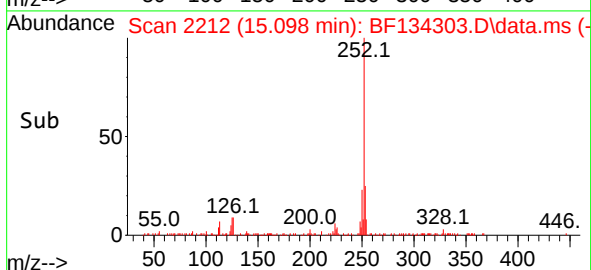
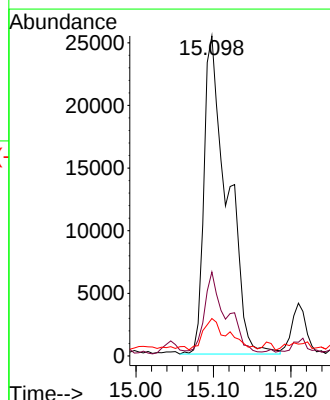
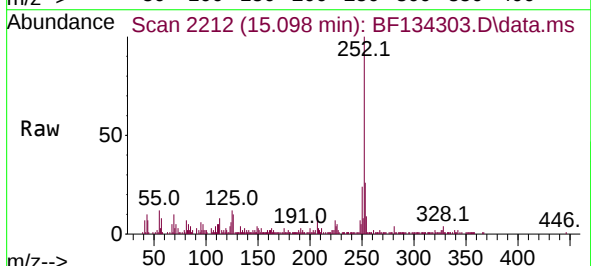
Tgt Ion:252 Resp: 53389

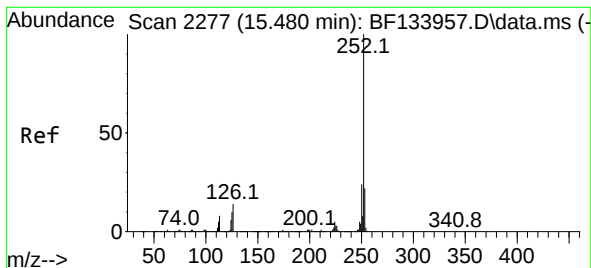
Ion Ratio Lower Upper

252 100

253 26.2 16.9 25.3#

125 11.7 7.4 11.2#





#90

Benzo(a)pyrene

Concen: 3.270 ng

RT: 15.480 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF134303.D

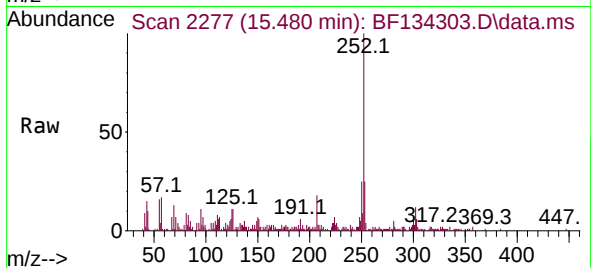
Acq: 14 Jul 2023 22:30

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE



Tgt Ion:252 Resp: 24117

Ion Ratio Lower Upper

252 100

253 25.3 17.4 26.0

125 10.7 8.4 12.6

