

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF070225\
 Data File : BF142983.D
 Acq On : 02 Jul 2025 21:22
 Operator : RC/JU
 Sample : Q2475-01MSD
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMSD

Quant Time: Jul 03 01:09:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	59335	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	228314	20.000	ng	-0.01
39) Acenaphthene-d10	9.916	164	114108	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	156089	20.000	ng	0.00
76) Chrysene-d12	14.051	240	121729	20.000	ng	0.00
86) Perylene-d12	15.545	264	97715	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	249556	70.025	ng	0.00
7) Phenol-d6	6.504	99	308404	73.349	ng	0.00
23) Nitrobenzene-d5	7.439	82	186323	44.763	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	72486	61.730	ng	-0.01
45) 2-Fluorobiphenyl	9.233	172	365207	42.045	ng	-0.01
79) Terphenyl-d14	12.986	244	276488	31.383	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.646	88	51211	35.926	ng	99
3) Pyridine	3.416	79	137509	38.480	ng	99
4) n-Nitrosodimethylamine	3.369	42	78126	42.277	ng	99
6) Aniline	6.534	93	203950	36.455	ng	# 86
8) 2-Chlorophenol	6.657	128	171373	44.578	ng	99
9) Benzaldehyde	6.422	77	123673	49.578	ng	98
10) Phenol	6.522	94	207052	44.301	ng	90
11) bis(2-Chloroethyl)ether	6.604	93	148392	44.424	ng	98
12) 1,3-Dichlorobenzene	6.816	146	189542	44.085	ng	99
13) 1,4-Dichlorobenzene	6.892	146	189979	43.796	ng	98
14) 1,2-Dichlorobenzene	7.039	146	181259	44.055	ng	98
15) Benzyl Alcohol	7.016	79	139016	45.734	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	220985	41.176	ng	89
17) 2-Methylphenol	7.128	107	130676	44.855	ng	98
18) Hexachloroethane	7.387	117	66516	43.840	ng	96
19) n-Nitroso-di-n-propyla...	7.287	70	110118	45.030	ng	98
20) 3+4-Methylphenols	7.281	107	167958	46.239	ng	93
22) Acetophenone	7.281	105	227000	45.087	ng	99
24) Nitrobenzene	7.457	77	164177	43.578	ng	98
25) Isophorone	7.698	82	294180	44.057	ng	99
26) 2-Nitrophenol	7.775	139	95154	46.365	ng	98
27) 2,4-Dimethylphenol	7.810	122	152362	42.860	ng	100
28) bis(2-Chloroethoxy)met...	7.904	93	187498	44.168	ng	99
29) 2,4-Dichlorophenol	8.016	162	144183	44.732	ng	99
30) 1,2,4-Trichlorobenzene	8.098	180	155061	43.749	ng	99
31) Naphthalene	8.181	128	489860	43.833	ng	100
32) Benzoic acid	7.928	122	77897	42.992	ng	99
33) 4-Chloroaniline	8.228	127	99788	21.959	ng	98
34) Hexachlorobutadiene	8.292	225	97097	44.786	ng	98
35) Caprolactam	8.604	113	43452	51.087	ng	94
36) 4-Chloro-3-methylphenol	8.716	107	144392	45.074	ng	100
37) 2-Methylnaphthalene	8.869	142	306158	44.188	ng	99
38) 1-Methylnaphthalene	8.969	142	314995	43.919	ng	100
40) 1,2,4,5-Tetrachloroben...	9.039	216	155004	46.037	ng	99
41) Hexachlorocyclopentadiene	9.022	237	119067	62.317	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	100027	45.591	ng	99

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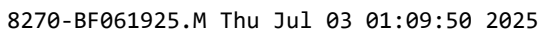
Instrument :
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	101787	44.072	ng	98
46) 1,1'-Biphenyl	9.333	154	417031	46.265	ng	100
47) 2-Chloronaphthalene	9.363	162	302285	44.688	ng	100
48) 2-Nitroaniline	9.457	65	87747	46.270	ng	99
49) Acenaphthylene	9.780	152	498082	44.729	ng	100
50) Dimethylphthalate	9.633	163	357699	48.428	ng	100
51) 2,6-Dinitrotoluene	9.704	165	76473	47.145	ng	94
52) Acenaphthene	9.951	154	293106	43.142	ng	99
53) 3-Nitroaniline	9.869	138	51118	28.623	ng	100
54) 2,4-Dinitrophenol	9.986	184	69192	85.190	ng	93
55) Dibenzofuran	10.122	168	434092	44.557	ng	99
56) 4-Nitrophenol	10.039	139	94243	77.081	ng	98
57) 2,4-Dinitrotoluene	10.110	165	95850	44.486	ng	97
58) Fluorene	10.463	166	338474	44.485	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	74824	40.193	ng	97
60) Diethylphthalate	10.333	149	347136	47.933	ng	99
61) 4-Chlorophenyl-phenyle...	10.457	204	161194	44.397	ng	98
62) 4-Nitroaniline	10.486	138	66810	40.903	ng	98
63) Azobenzene	10.616	77	296548	45.815	ng	95
65) 4,6-Dinitro-2-methylph...	10.516	198	43230	45.788	ng	95
66) n-Nitrosodiphenylamine	10.575	169	279214	51.614	ng	99
67) 4-Bromophenyl-phenylether	10.945	248	91204	51.341	ng	98
68) Hexachlorobenzene	11.016	284	92184	46.701	ng	99
69) Atrazine	11.098	200	82902	59.345	ng	98
70) Pentachlorophenol	11.210	266	88521	89.996	ng	100
71) Phenanthrene	11.427	178	487597	57.667	ng	99
72) Anthracene	11.480	178	404639	46.662	ng	100
73) Carbazole	11.633	167	354891	47.424	ng	100
74) Di-n-butylphthalate	11.963	149	446448	57.268	ng	100
75) Fluoranthene	12.621	202	646065	80.511	ng	99
77) Benzidine	12.745	184	264973	57.937	ng	99
78) Pyrene	12.851	202	619710	54.312	ng	100
80) Butylbenzylphthalate	13.463	149	162371	49.058	ng	97
81) Benzo(a)anthracene	14.045	228	478410	58.258	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	79753	29.942	ng	99
83) Chrysene	14.080	228	444298	60.633	ng	100
84) Bis(2-ethylhexyl)phtha...	14.021	149	227369	47.746	ng	99
85) Di-n-octyl phthalate	14.633	149	388886	43.308	ng	99
87) Indeno(1,2,3-cd)pyrene	17.056	276	255696	34.355	ng	98
88) Benzo(b)fluoranthene	15.110	252	407451	72.061	ng	100
89) Benzo(k)fluoranthene	15.139	252	330281	62.435	ng	99
90) Benzo(a)pyrene	15.480	252	308603	56.496	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	192523	31.835	ng	98
92) Benzo(g,h,i)perylene	17.515	276	196272	32.548	ng	99

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

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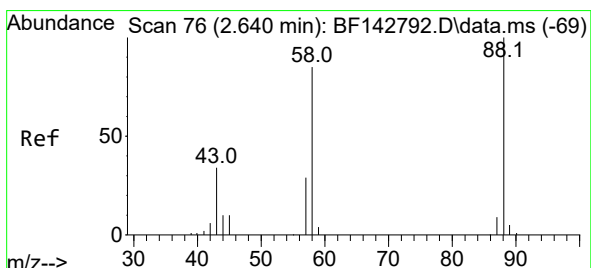
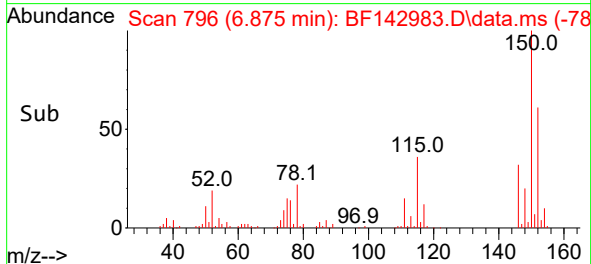
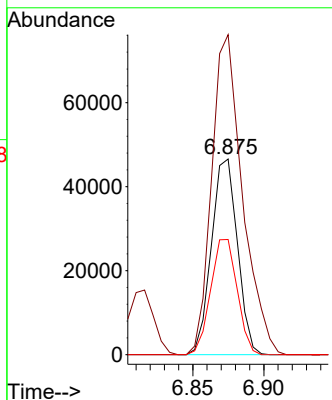
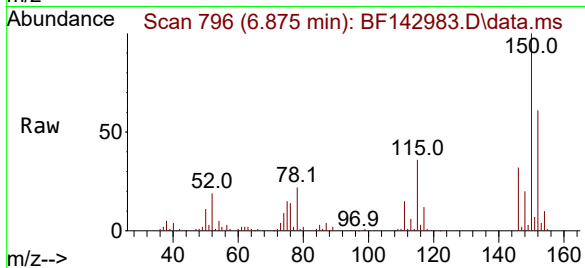




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

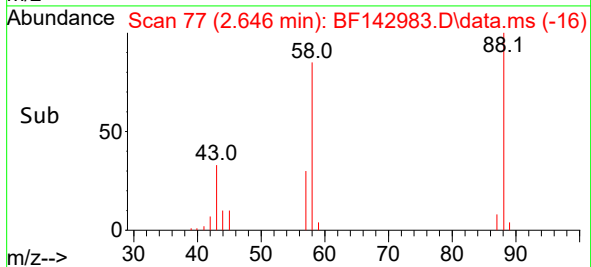
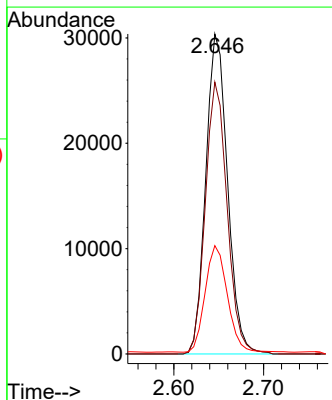
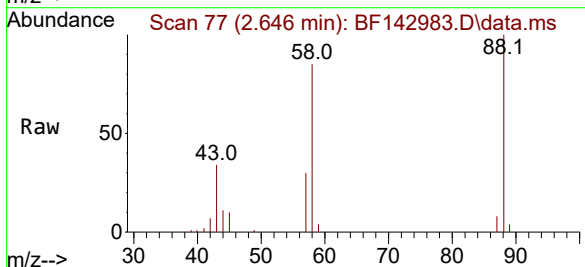
Instrument :
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ClientSampleId :
SOIL-PILEMSD

Tgt Ion:152 Resp: 59335
Ion Ratio Lower Upper
152 100
150 163.5 127.2 190.8
115 58.9 46.6 69.8



#2
1,4-Dioxane
Concen: 35.926 ng
RT: 2.646 min Scan# 77
Delta R.T. 0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion: 88 Resp: 51211
Ion Ratio Lower Upper
88 100
58 85.2 69.1 103.7
43 34.0 27.4 41.2

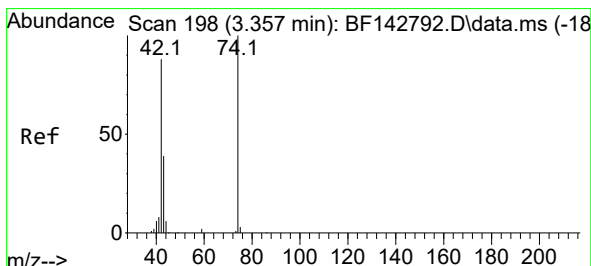
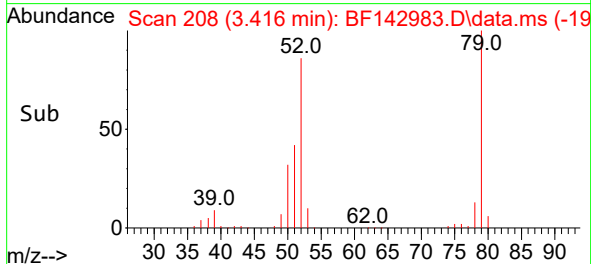
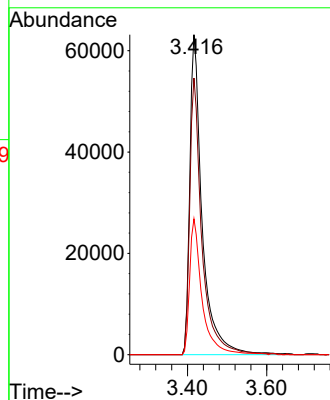
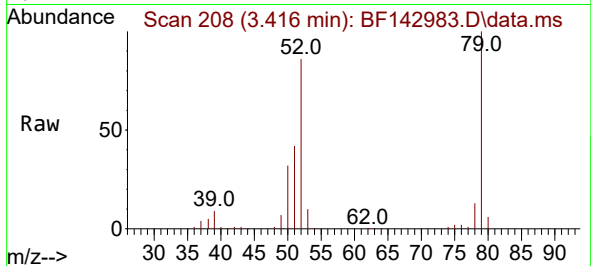




#3
Pyridine
Concen: 38.480 ng
RT: 3.416 min Scan# 207
Delta R.T. 0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

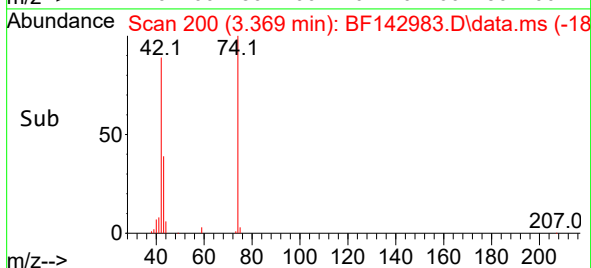
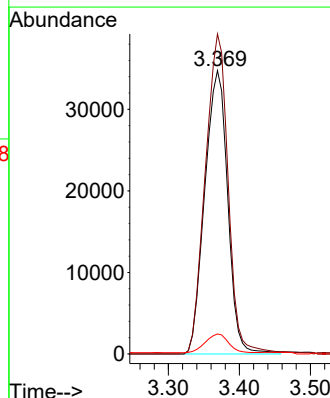
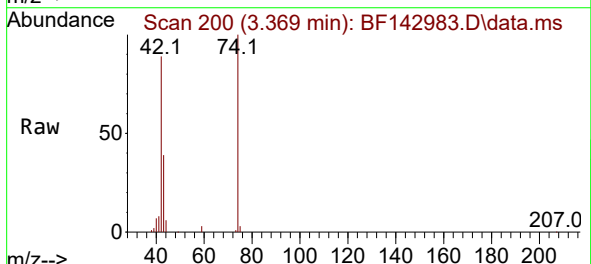
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ClientSampleId :
SOIL-PILEMSD

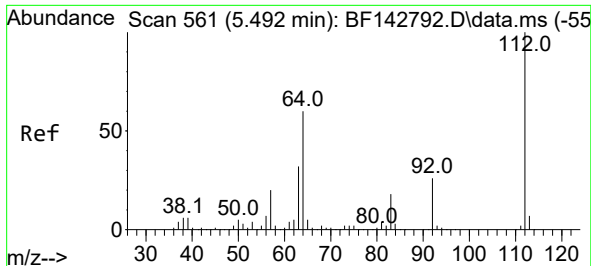
Tgt Ion: 79 Resp: 137509
Ion Ratio Lower Upper
79 100
52 86.4 69.2 103.8
51 42.4 33.2 49.8



#4
n-Nitrosodimethylamine
Concen: 42.277 ng
RT: 3.369 min Scan# 200
Delta R.T. 0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion: 42 Resp: 78126
Ion Ratio Lower Upper
42 100
74 112.9 90.9 136.3
44 7.0 5.8 8.6

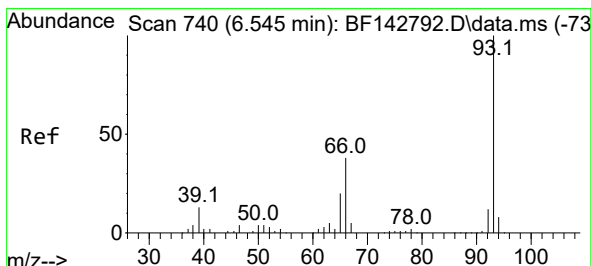
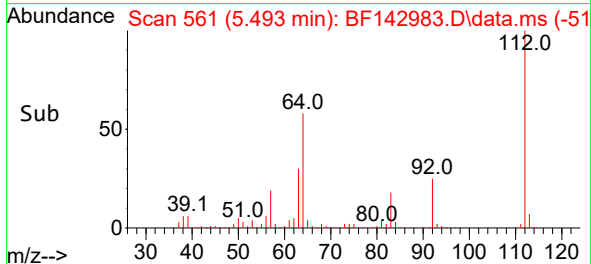
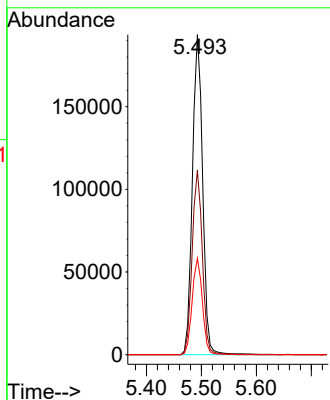
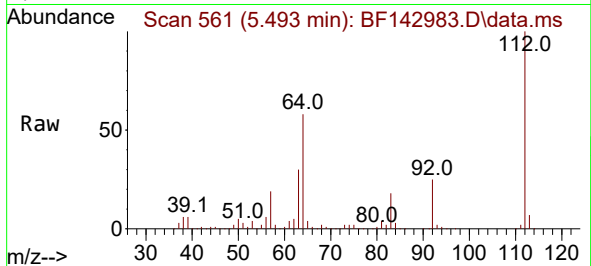




#5
2-Fluorophenol
Concen: 70.025 ng
RT: 5.493 min Scan# 501
Delta R.T. 0.001 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

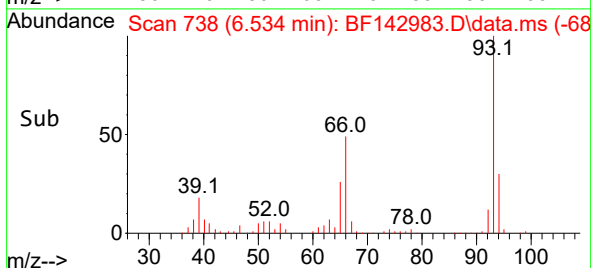
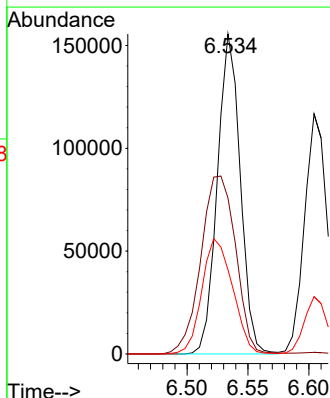
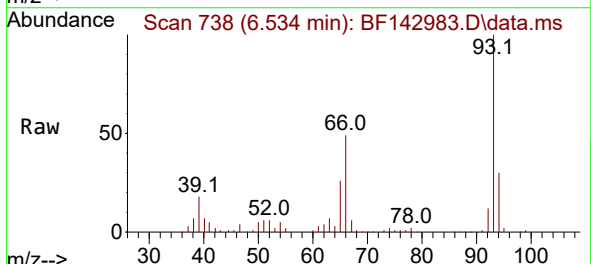
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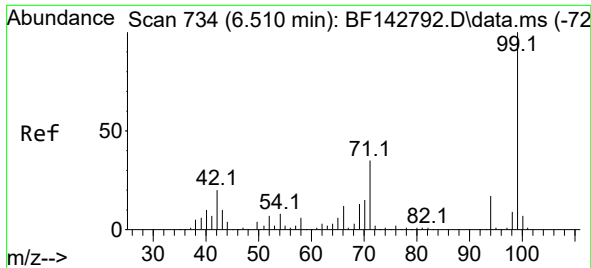
Tgt Ion:112 Resp: 249556
Ion Ratio Lower Upper
112 100
64 57.6 48.2 72.2
63 30.1 25.7 38.5



#6
Aniline
Concen: 36.455 ng
RT: 6.534 min Scan# 738
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion: 93 Resp: 203950
Ion Ratio Lower Upper
93 100
66 48.7 31.8 47.6#
65 26.4 16.2 24.2#

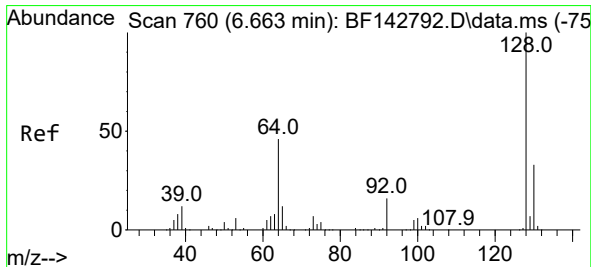
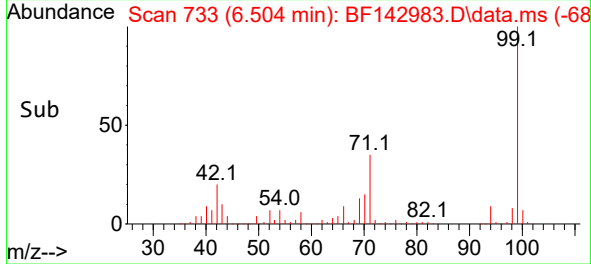
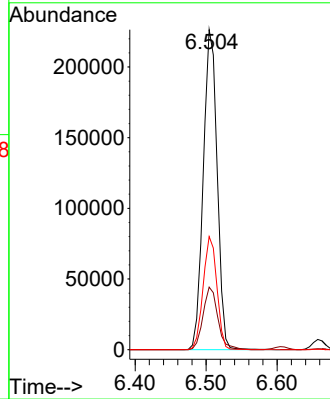
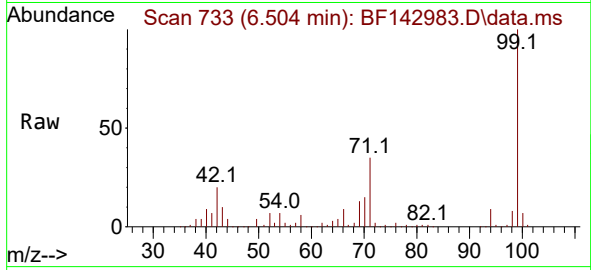




#7
Phenol-d6
Concen: 73.349 ng
RT: 6.504 min Scan# 711
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

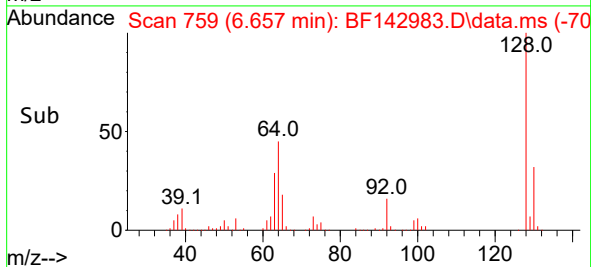
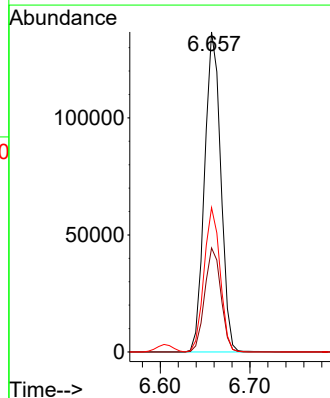
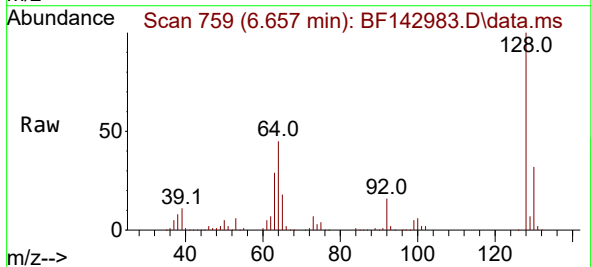
Instrument :
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Tgt Ion: 99 Resp: 308404
Ion Ratio Lower Upper
99 100
42 19.6 15.9 23.9
71 35.4 27.8 41.8



#8
2-Chlorophenol
Concen: 44.578 ng
RT: 6.657 min Scan# 759
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:128 Resp: 171373
Ion Ratio Lower Upper
128 100
130 32.5 12.7 52.7
64 45.1 26.5 66.5

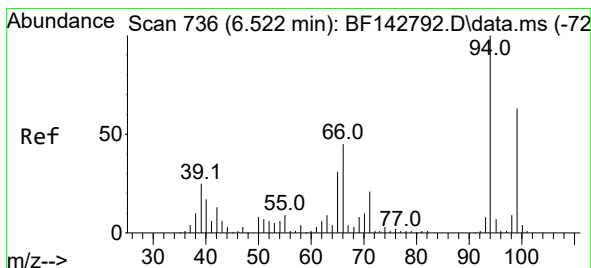
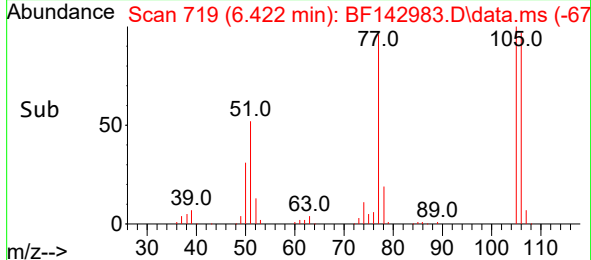
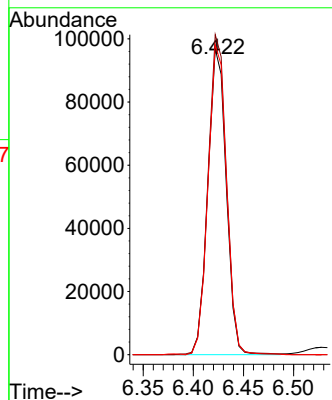
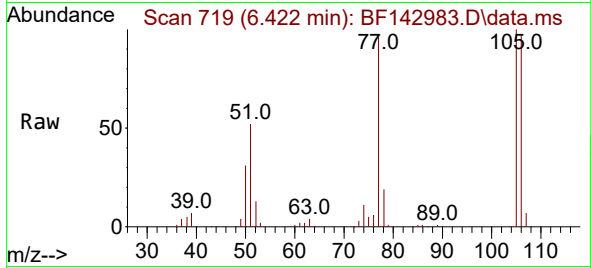




#9
Benzaldehyde
Concen: 49.578 ng
RT: 6.422 min Scan# 719
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

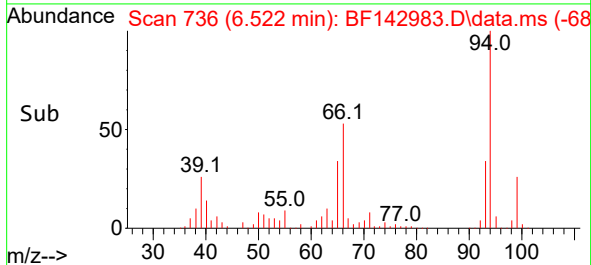
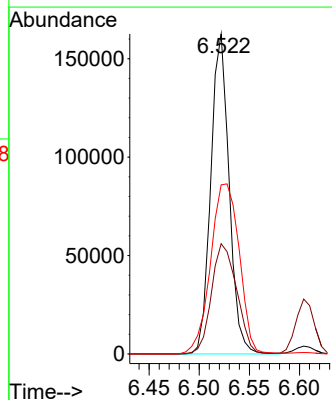
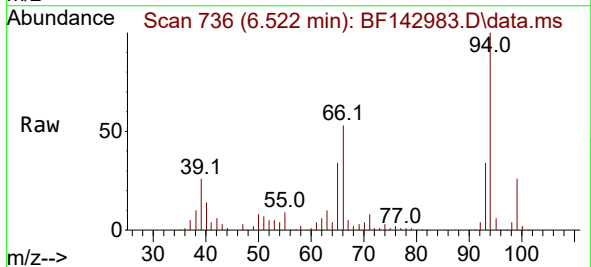
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion: 77 Resp: 123673
Ion Ratio Lower Upper
77 100
105 104.6 83.8 123.8
106 101.3 78.7 118.7



#10
Phenol
Concen: 44.301 ng
RT: 6.522 min Scan# 736
Delta R.T. 0.000 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion: 94 Resp: 207052
Ion Ratio Lower Upper
94 100
65 34.5 11.3 51.3
66 52.9 24.9 64.9





#11

bis(2-Chloroethyl)ether

Concen: 44.424 ng

RT: 6.604 min Scan# 750

Delta R.T. -0.012 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

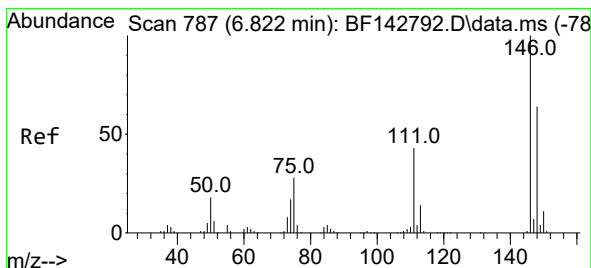
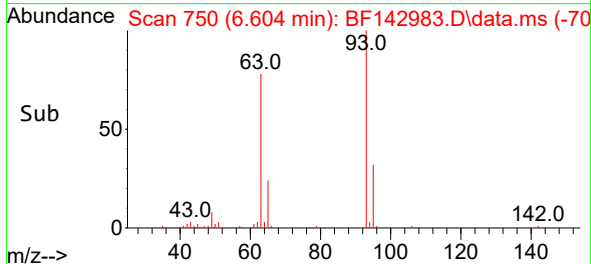
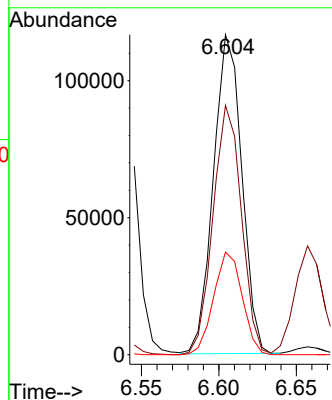
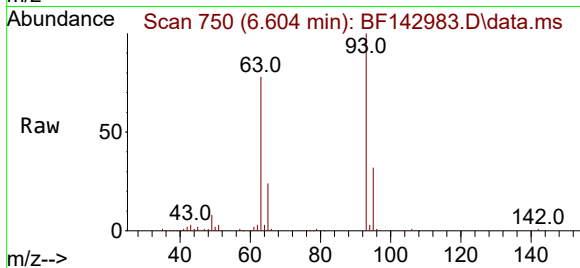
Tgt Ion: 93 Resp: 148392

Ion Ratio Lower Upper

93 100

63 77.9 60.3 100.3

95 32.0 12.5 52.5



#12

1,3-Dichlorobenzene

Concen: 44.085 ng

RT: 6.816 min Scan# 786

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

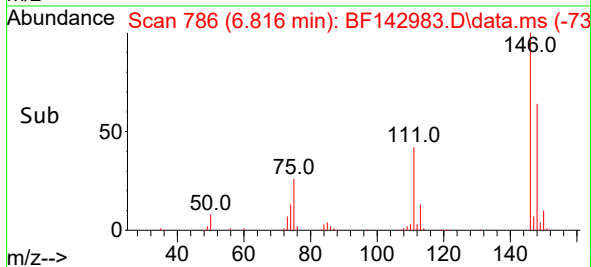
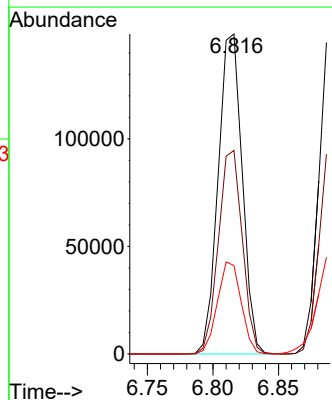
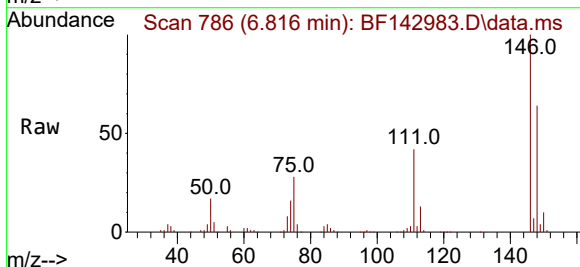
Tgt Ion:146 Resp: 189542

Ion Ratio Lower Upper

146 100

148 63.6 51.1 76.7

75 27.6 22.7 34.1





#13

1,4-Dichlorobenzene

Concen: 43.796 ng

RT: 6.892 min Scan# 79

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

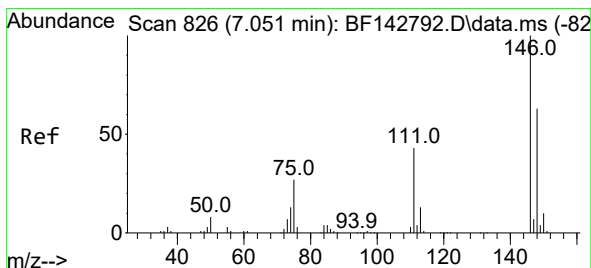
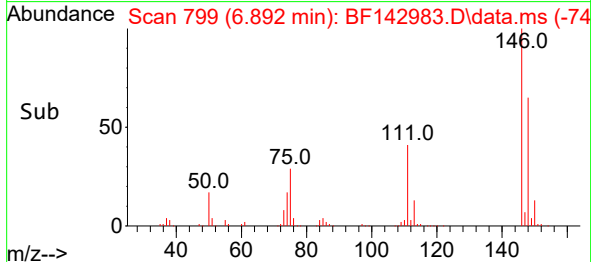
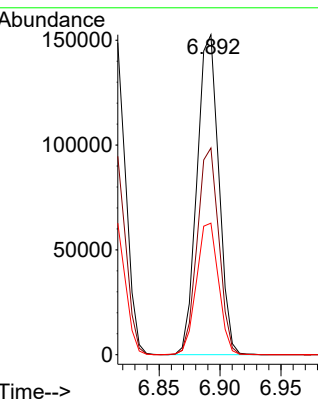
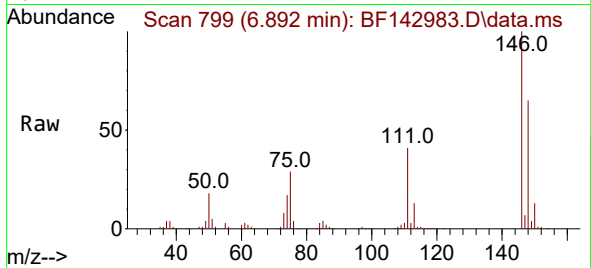
Tgt Ion:146 Resp: 189979

Ion Ratio Lower Upper

146 100

148 64.6 50.2 75.2

111 41.1 33.2 49.8



#14

1,2-Dichlorobenzene

Concen: 44.055 ng

RT: 7.039 min Scan# 824

Delta R.T. -0.012 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

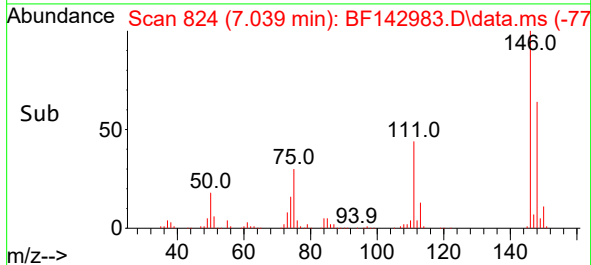
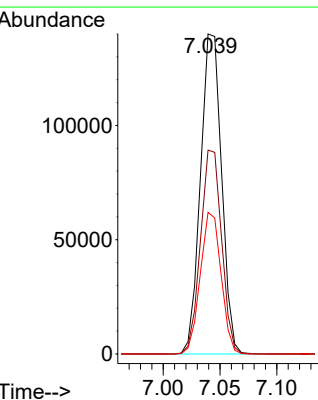
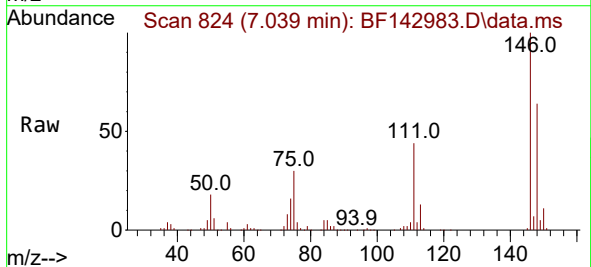
Tgt Ion:146 Resp: 181259

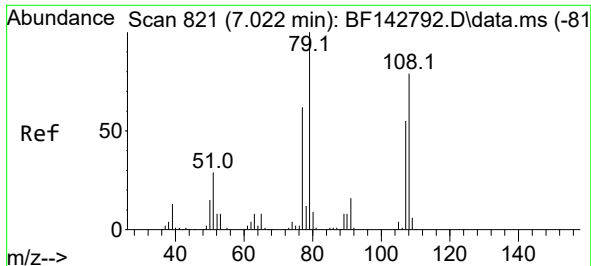
Ion Ratio Lower Upper

146 100

148 63.7 50.4 75.6

111 44.2 34.1 51.1

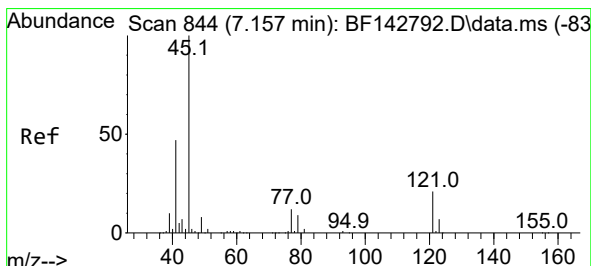
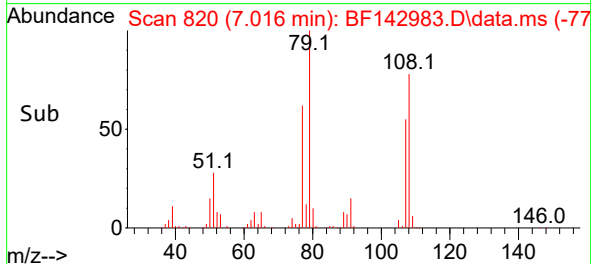
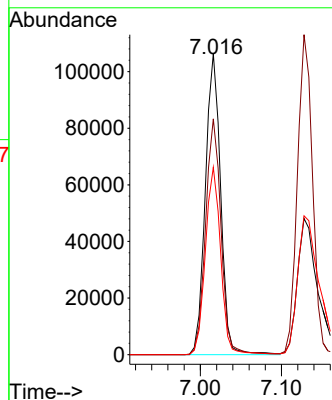
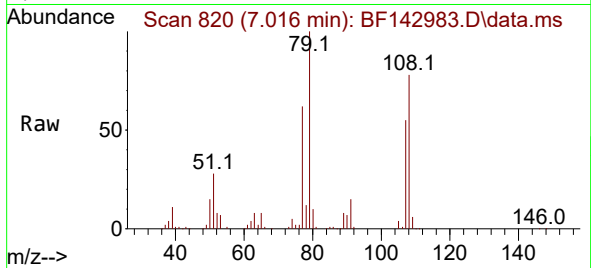




#15
Benzyl Alcohol
Concen: 45.734 ng
RT: 7.016 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

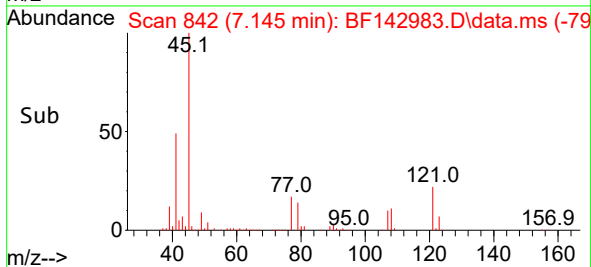
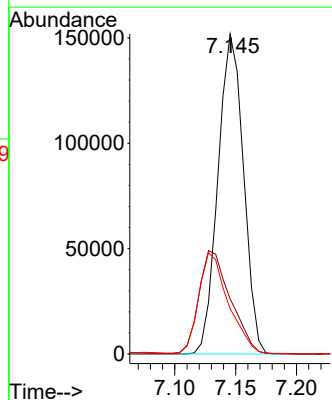
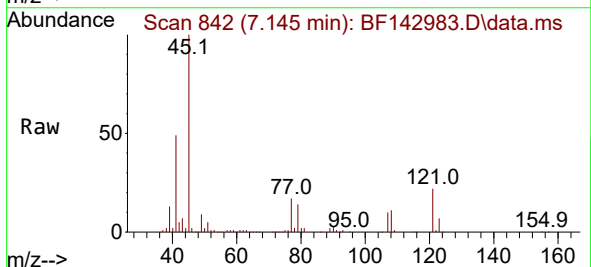
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

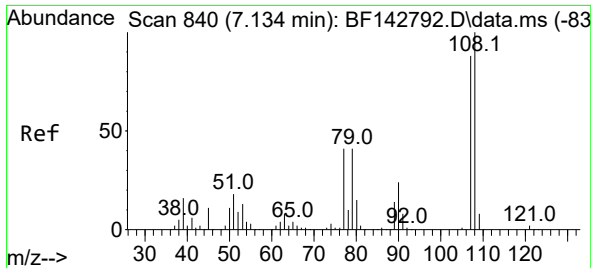
Tgt Ion: 79 Resp: 139016
Ion Ratio Lower Upper
79 100
108 78.3 63.4 95.0
77 62.2 49.5 74.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.176 ng
RT: 7.145 min Scan# 842
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion: 45 Resp: 220985
Ion Ratio Lower Upper
45 100
77 17.2 0.0 32.8
79 14.1 0.0 29.8

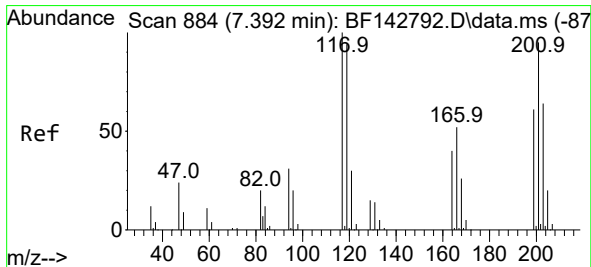
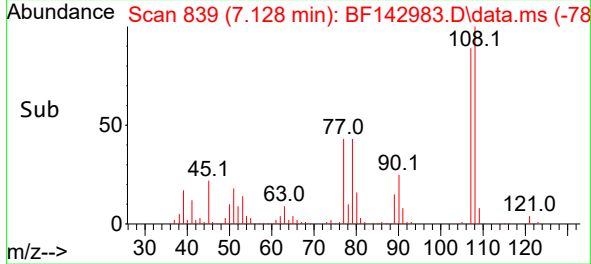
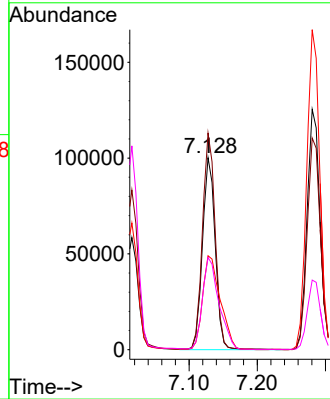
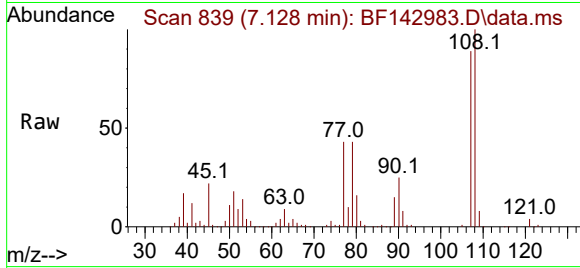




#17
2-Methylphenol
Concen: 44.855 ng
RT: 7.128 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

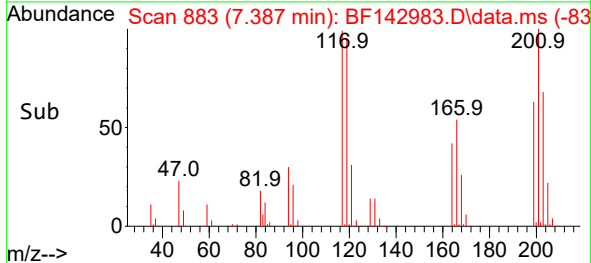
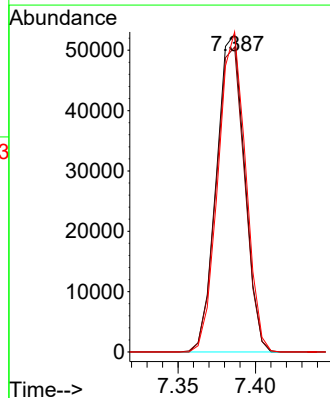
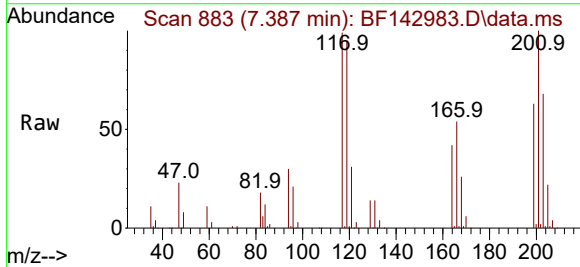
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:107 Resp: 130676
Ion Ratio Lower Upper
107 100
108 112.8 90.9 136.3
77 48.9 37.3 55.9
79 48.0 37.2 55.8



#18
Hexachloroethane
Concen: 43.840 ng
RT: 7.387 min Scan# 883
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:117 Resp: 66516
Ion Ratio Lower Upper
117 100
119 96.0 75.4 113.0
201 100.8 75.9 113.9



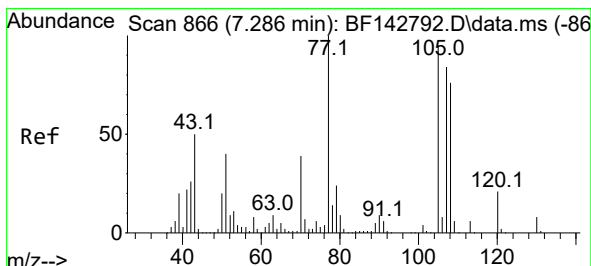
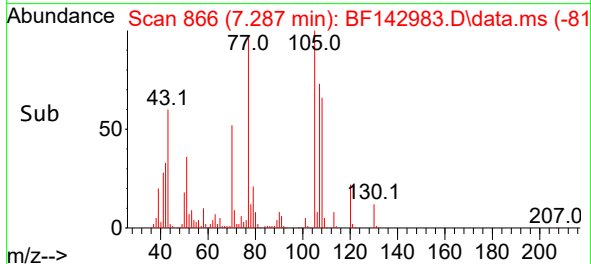
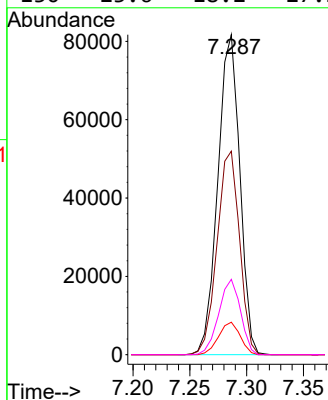
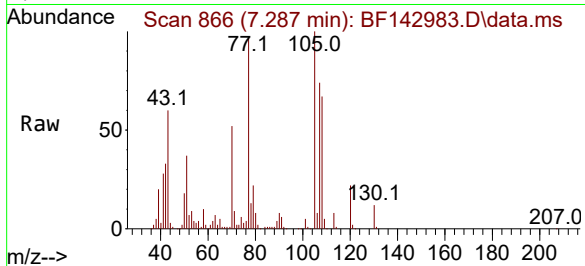


#19
n-Nitroso-di-n-propylamine
Concen: 45.030 ng
RT: 7.287 min Scan# 866
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion: 70 Resp: 110118

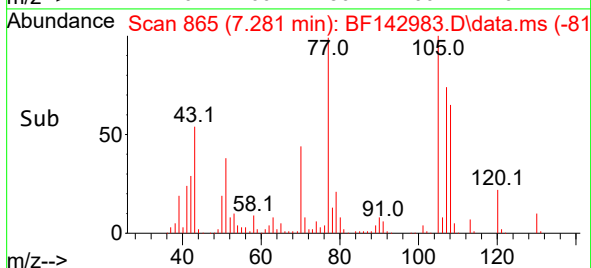
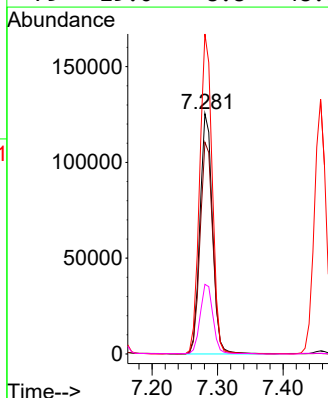
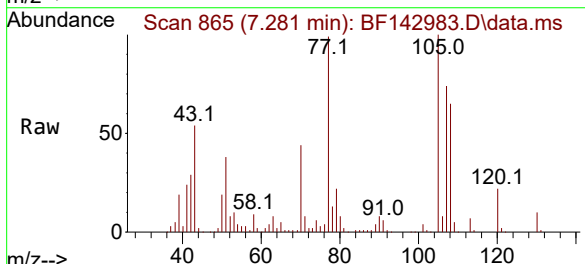
Ion	Ratio	Lower	Upper
70	100		
42	63.6	52.1	78.1
101	10.2	8.2	12.2
130	23.6	18.2	27.2

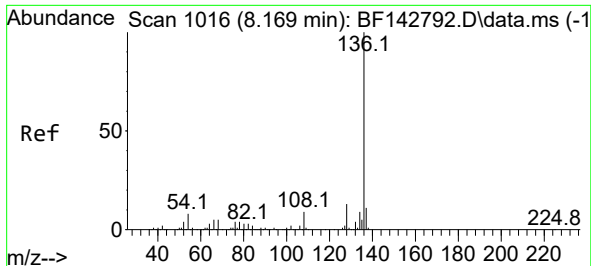


#20
3+4-Methylphenols
Concen: 46.239 ng
RT: 7.281 min Scan# 865
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion: 107 Resp: 167958

Ion	Ratio	Lower	Upper
107	100		
108	88.1	70.0	110.0
77	133.2	98.5	138.5
79	29.0	8.8	48.8

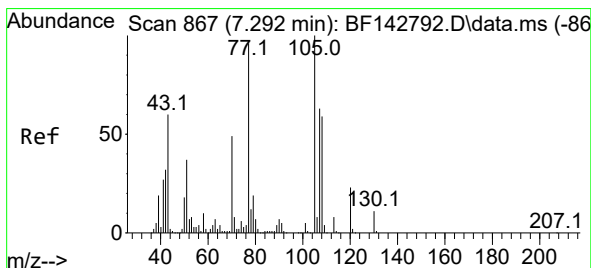
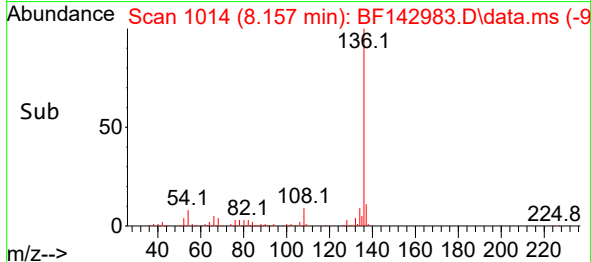
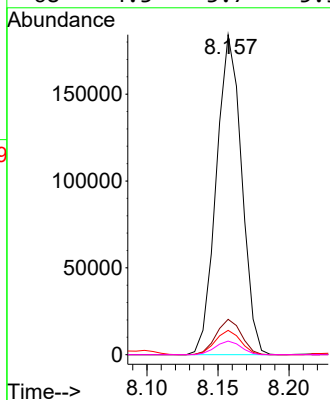
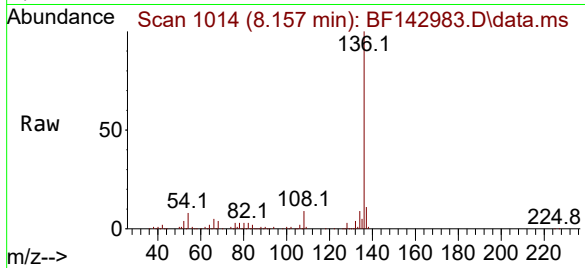




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

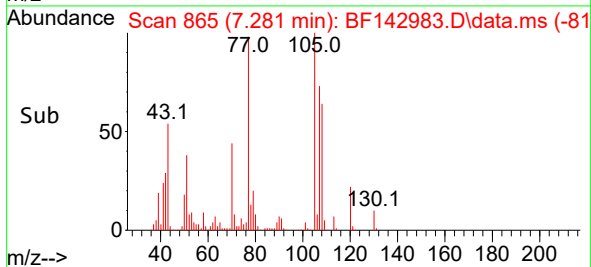
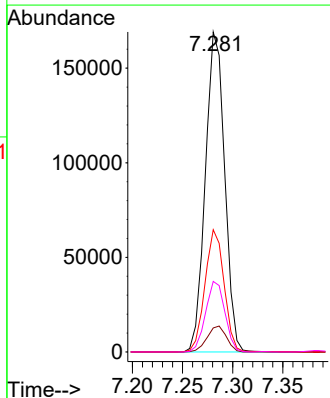
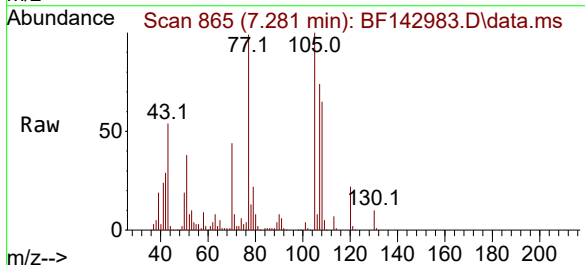
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

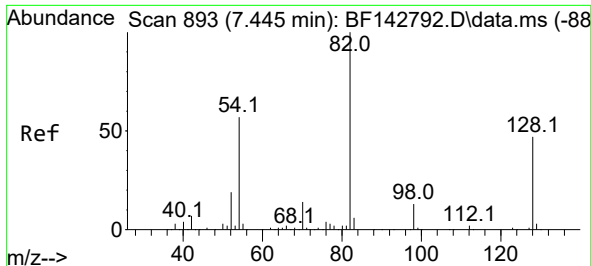
Tgt Ion:	136	Resp:	228314
Ion Ratio	Lower	Upper	
136	100		
137	11.1	8.4	12.6
54	7.6	6.3	9.5
68	4.3	3.7	5.5



#22
Acetophenone
Concen: 45.087 ng
RT: 7.281 min Scan# 865
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:	105	Resp:	227000
Ion Ratio	Lower	Upper	
105	100		
71	7.5	6.5	9.7
51	38.2	29.8	44.8
120	22.1	18.2	27.2





#23

Nitrobenzene-d5

Concen: 44.763 ng

RT: 7.439 min Scan# 892

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

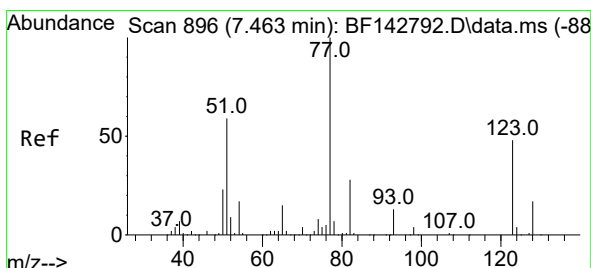
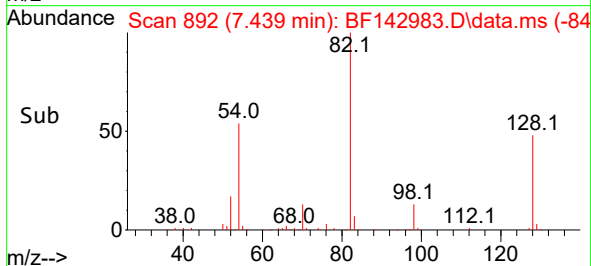
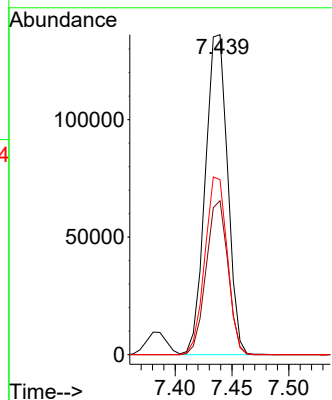
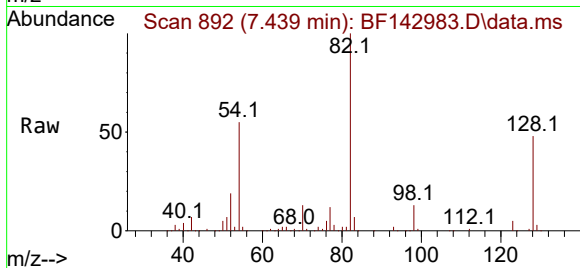
Tgt Ion: 82 Resp: 186323

Ion Ratio Lower Upper

82 100

128 48.1 37.7 56.5

54 54.7 45.7 68.5



#24

Nitrobenzene

Concen: 43.578 ng

RT: 7.457 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

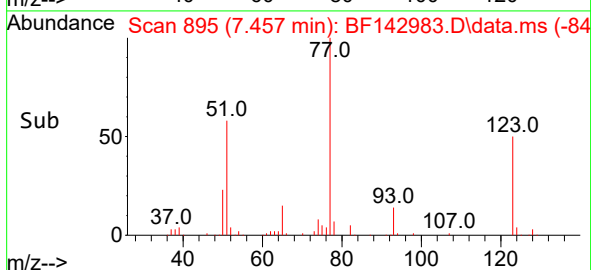
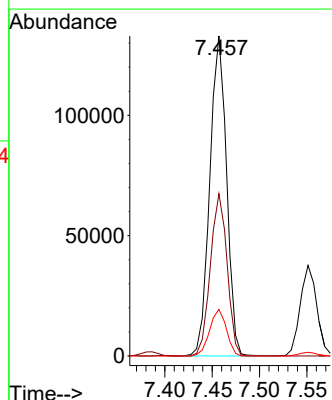
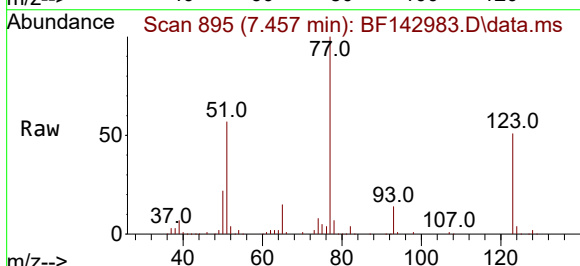
Tgt Ion: 77 Resp: 164177

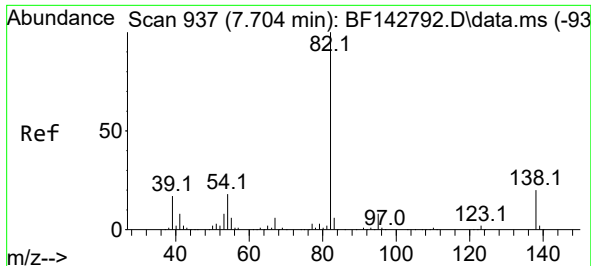
Ion Ratio Lower Upper

77 100

123 50.7 39.2 58.8

65 14.5 11.6 17.4

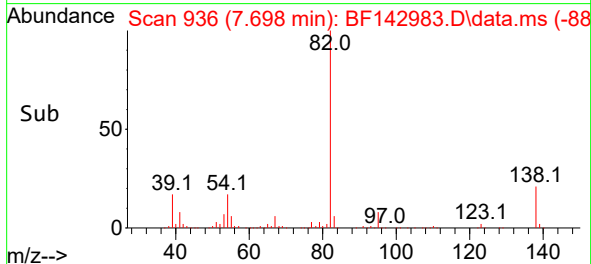
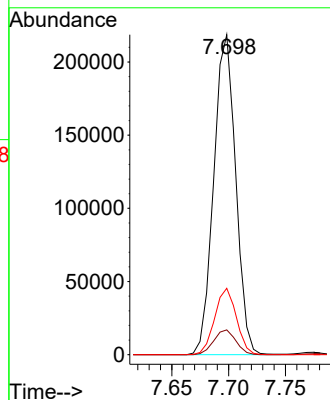
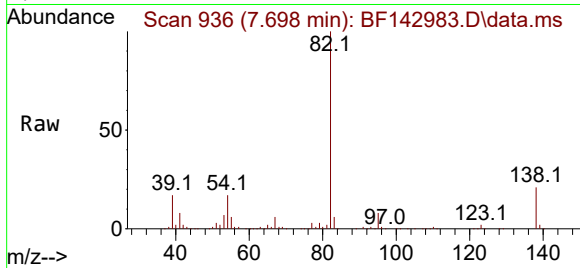




#25
Isophorone
Concen: 44.057 ng
RT: 7.698 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

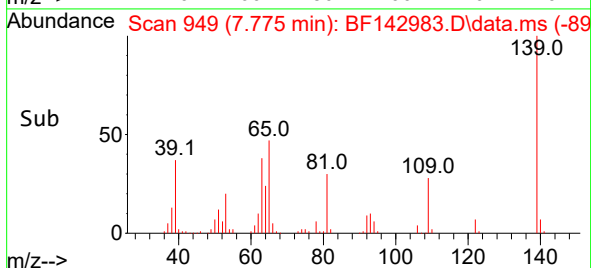
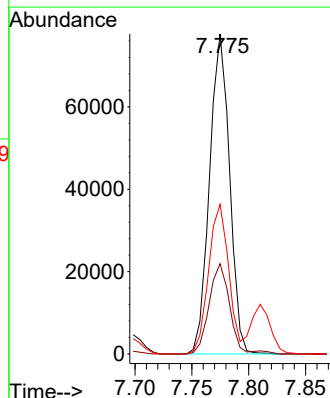
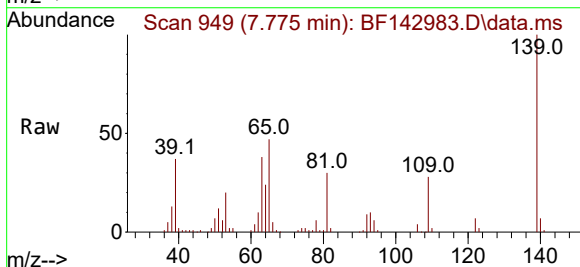
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion: 82 Resp: 294180
Ion Ratio Lower Upper
82 100
95 7.8 6.2 9.2
138 20.8 16.2 24.4



#26
2-Nitrophenol
Concen: 46.365 ng
RT: 7.775 min Scan# 949
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion: 139 Resp: 95154
Ion Ratio Lower Upper
139 100
109 28.2 22.7 34.1
65 46.7 38.6 58.0





#27

2,4-Dimethylphenol

Concen: 42.860 ng

RT: 7.810 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

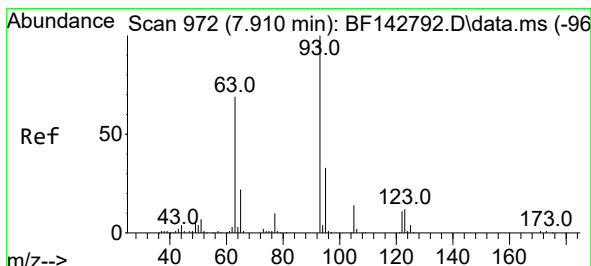
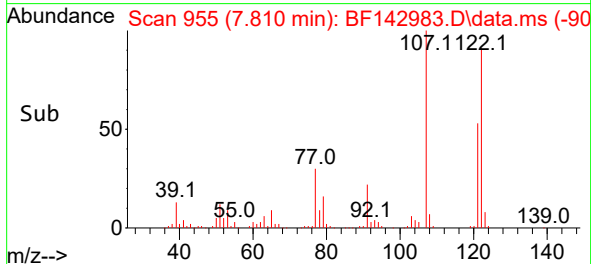
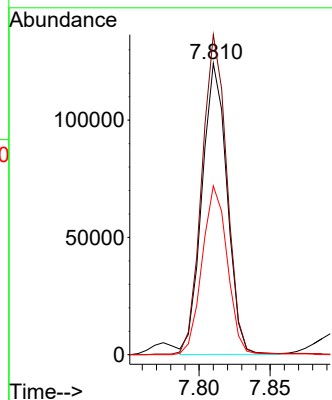
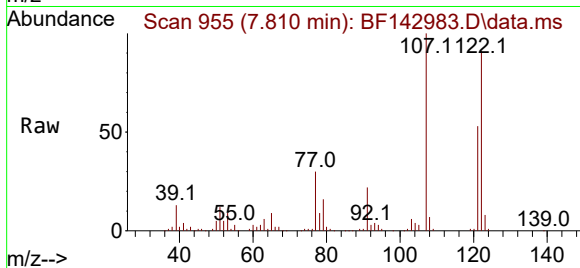
Tgt Ion:122 Resp: 152362

Ion Ratio Lower Upper

122 100

107 109.8 88.0 132.0

121 57.9 46.3 69.5



#28

bis(2-Chloroethoxy)methane

Concen: 44.168 ng

RT: 7.904 min Scan# 971

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

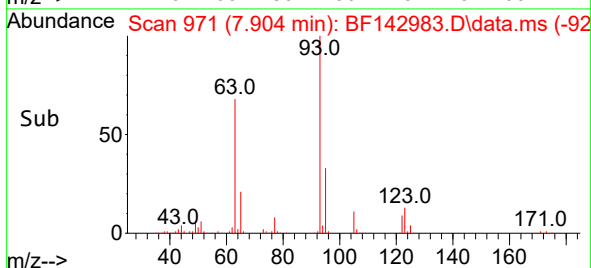
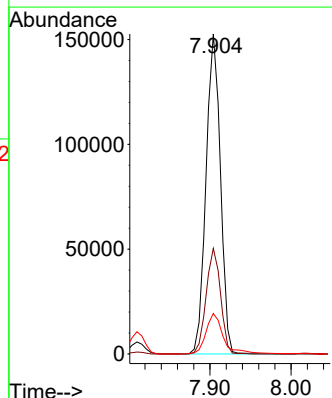
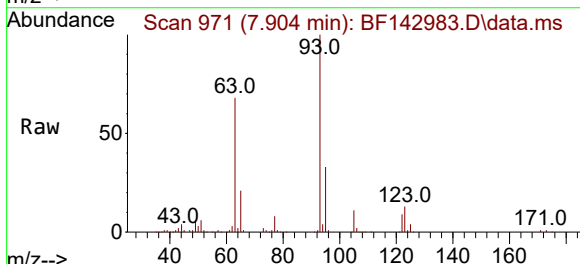
Tgt Ion: 93 Resp: 187498

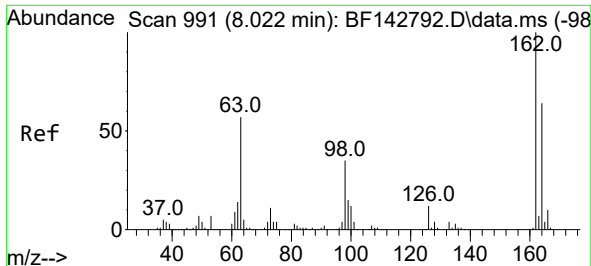
Ion Ratio Lower Upper

93 100

95 33.0 26.2 39.2

123 12.7 9.9 14.9





#29

2,4-Dichlorophenol

Concen: 44.732 ng

RT: 8.016 min Scan# 991

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

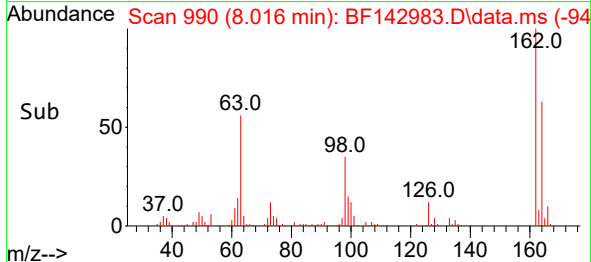
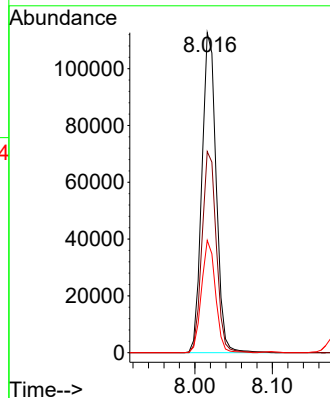
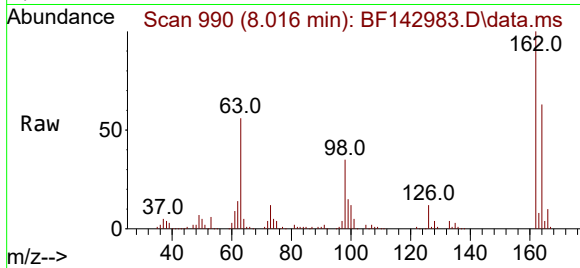
Tgt Ion:162 Resp: 144183

Ion Ratio Lower Upper

162 100

164 62.9 44.0 84.0

98 35.1 15.4 55.4



#30

1,2,4-Trichlorobenzene

Concen: 43.749 ng

RT: 8.098 min Scan# 1004

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

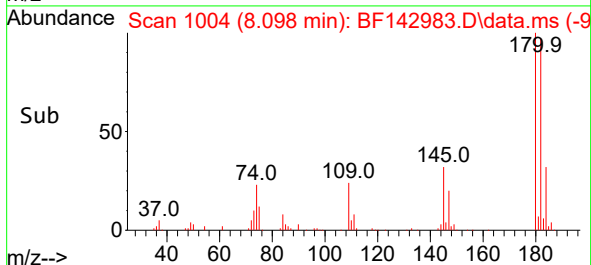
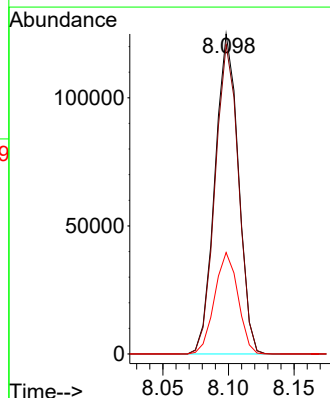
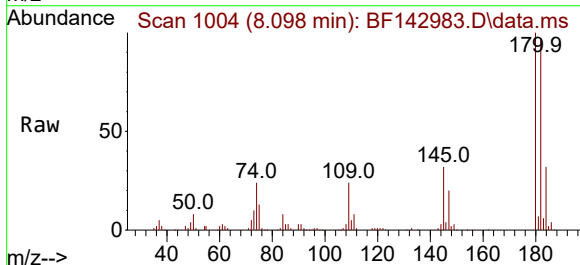
Tgt Ion:180 Resp: 155061

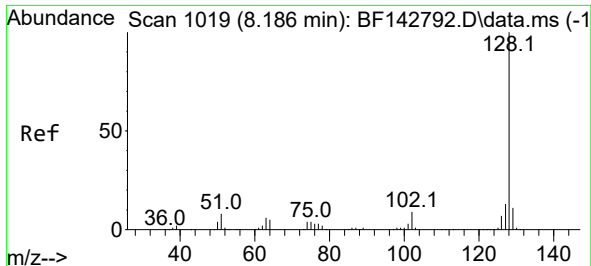
Ion Ratio Lower Upper

180 100

182 96.7 76.4 114.6

145 31.7 25.8 38.8

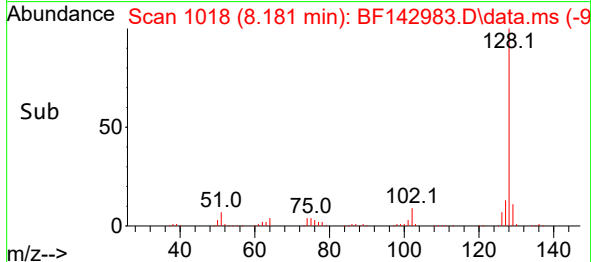
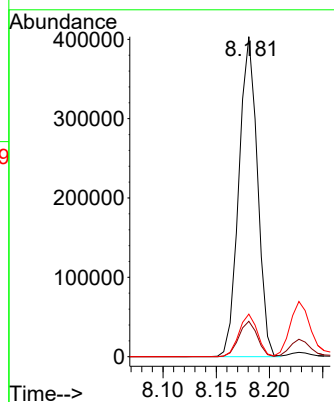
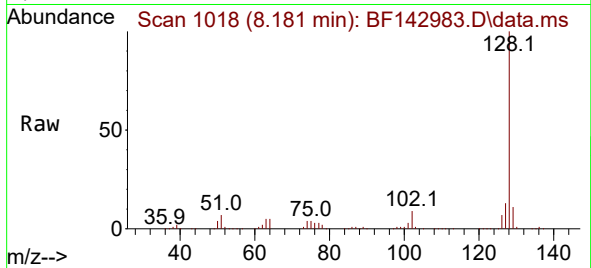




#31
Naphthalene
Concen: 43.833 ng
RT: 8.181 min Scan# 1019
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

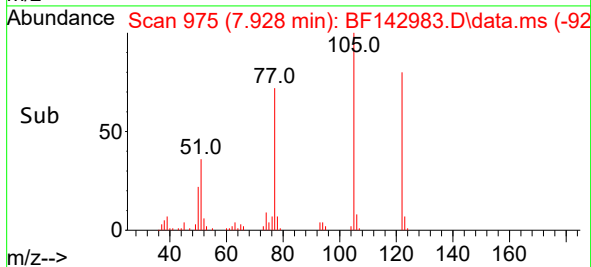
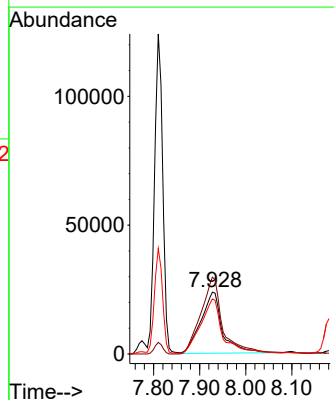
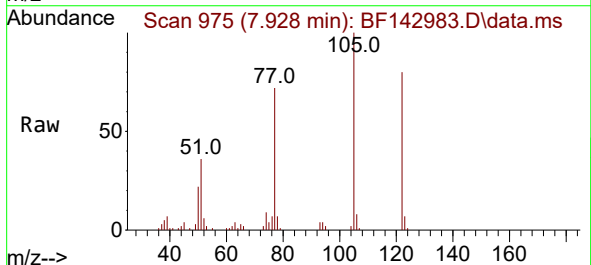
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

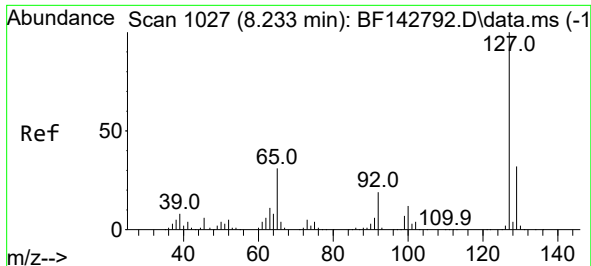
Tgt Ion:128 Resp: 489860
Ion Ratio Lower Upper
128 100
129 11.0 8.9 13.3
127 13.3 10.4 15.6



#32
Benzoic acid
Concen: 42.992 ng
RT: 7.928 min Scan# 975
Delta R.T. 0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:122 Resp: 77897
Ion Ratio Lower Upper
122 100
105 124.2 104.7 144.7
77 89.1 70.2 110.2

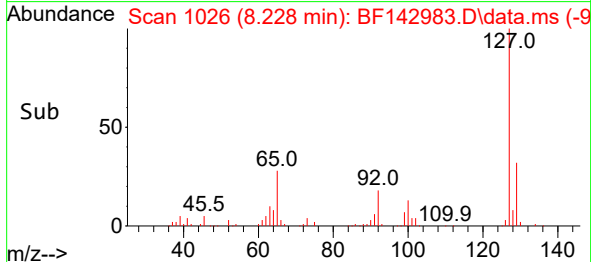
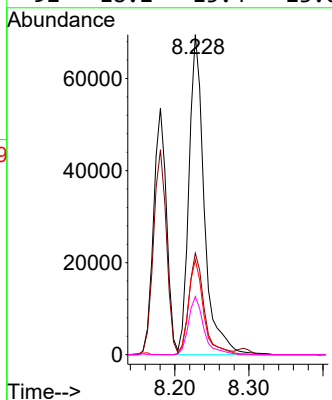
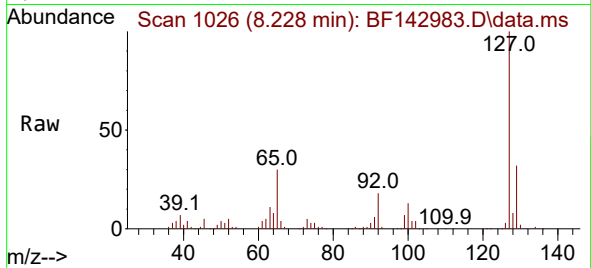




#33
4-Chloroaniline
Concen: 21.959 ng
RT: 8.228 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

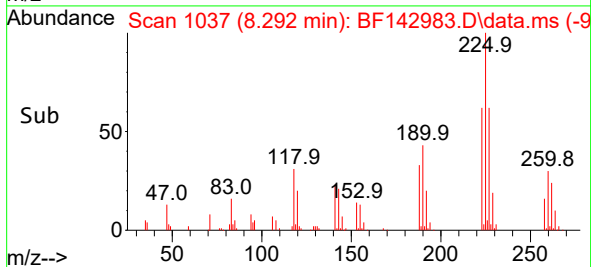
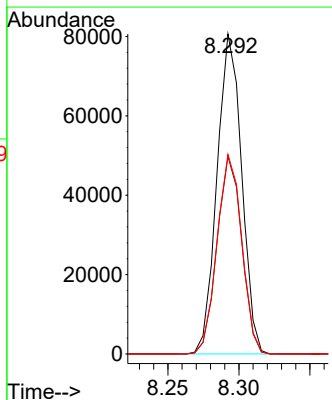
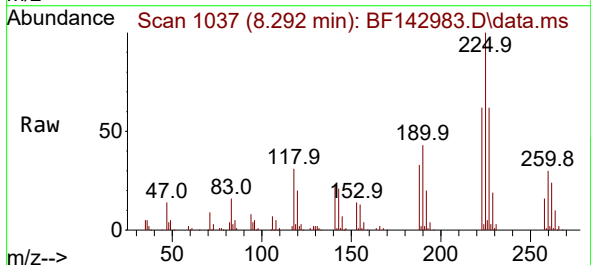
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

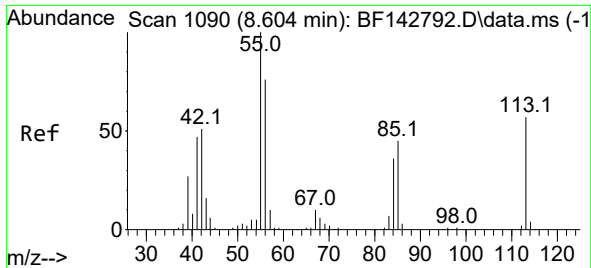
Tgt Ion:127	Resp:	99788
Ion Ratio	Lower	Upper
127	100	
129	31.7	25.9 38.9
65	29.7	24.6 36.8
92	18.2	15.4 23.0



#34
Hexachlorobutadiene
Concen: 44.786 ng
RT: 8.292 min Scan# 1037
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:225	Resp:	97097
Ion Ratio	Lower	Upper
225	100	
223	61.7	49.9 74.9
227	62.4	51.4 77.0

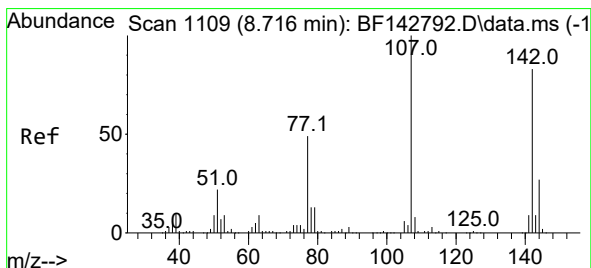
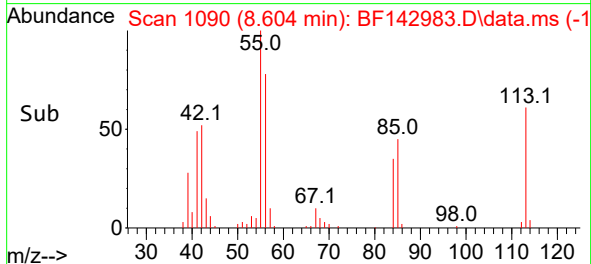
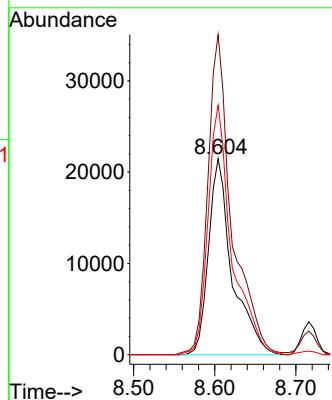
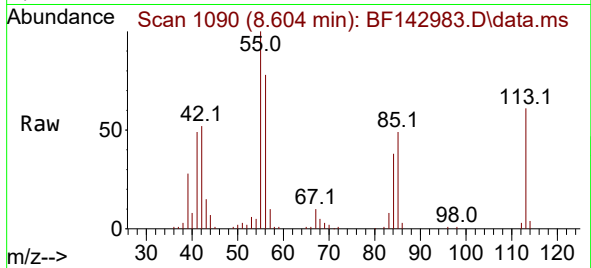




#35
 Caprolactam
 Concen: 51.087 ng
 RT: 8.604 min Scan# 1090
 Delta R.T. 0.000 min
 Lab File: BF142983.D
 Acq: 02 Jul 2025 21:22

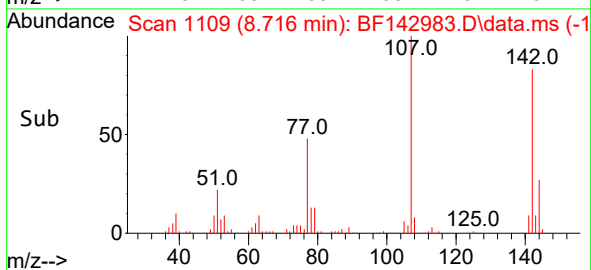
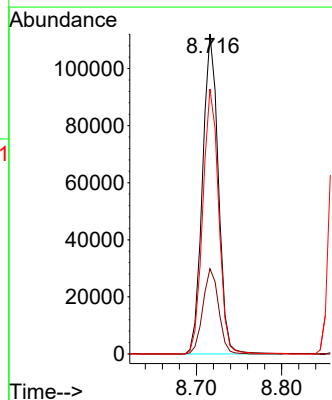
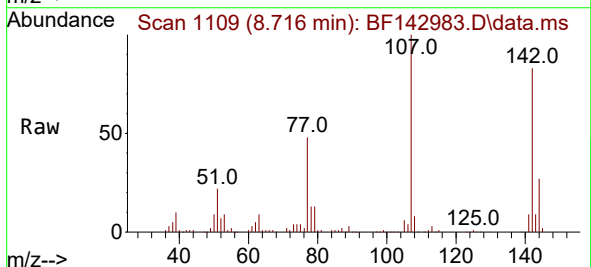
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMSD

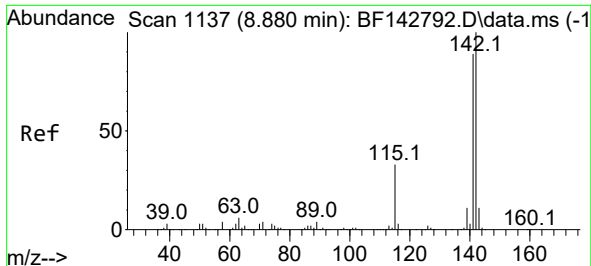
Tgt Ion:113 Resp: 43452
 Ion Ratio Lower Upper
 113 100
 55 163.2 154.4 194.4
 56 127.3 112.1 152.1



#36
 4-Chloro-3-methylphenol
 Concen: 45.074 ng
 RT: 8.716 min Scan# 1109
 Delta R.T. 0.000 min
 Lab File: BF142983.D
 Acq: 02 Jul 2025 21:22

Tgt Ion:107 Resp: 144392
 Ion Ratio Lower Upper
 107 100
 144 26.6 21.3 31.9
 142 82.8 66.6 100.0

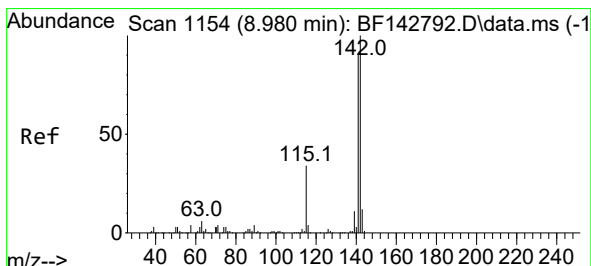
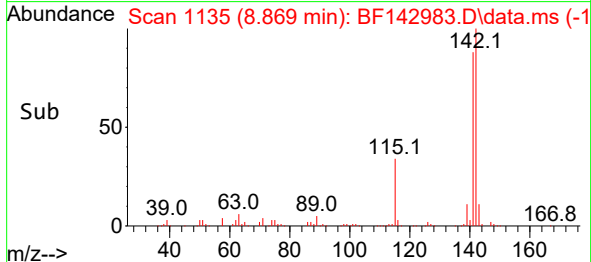
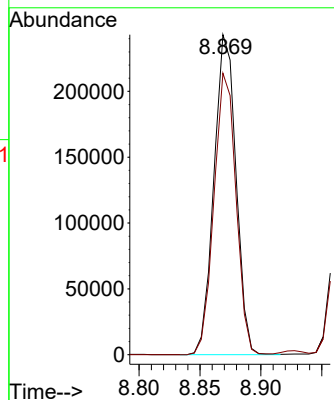
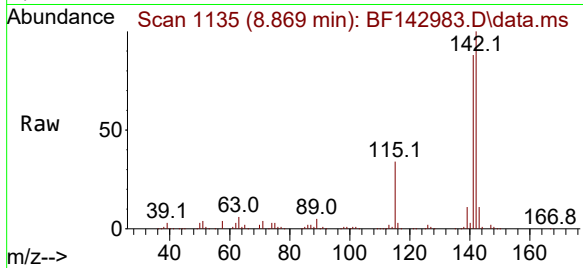




#37
2-Methylnaphthalene
Concen: 44.188 ng
RT: 8.869 min Scan# 1135
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

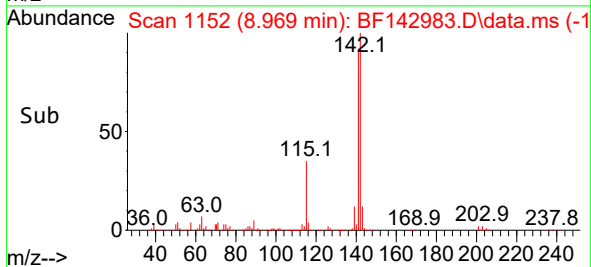
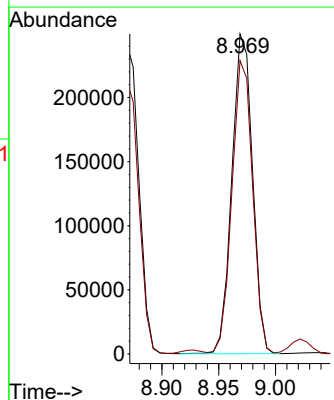
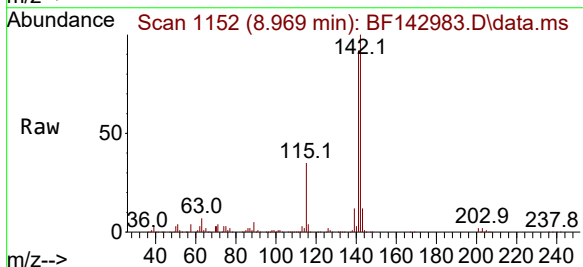
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:142 Resp: 306158
Ion Ratio Lower Upper
142 100
141 88.0 70.9 106.3



#38
1-Methylnaphthalene
Concen: 43.919 ng
RT: 8.969 min Scan# 1152
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:142 Resp: 314995
Ion Ratio Lower Upper
142 100
141 91.6 73.0 109.4

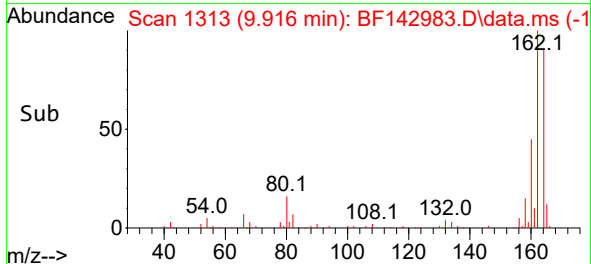
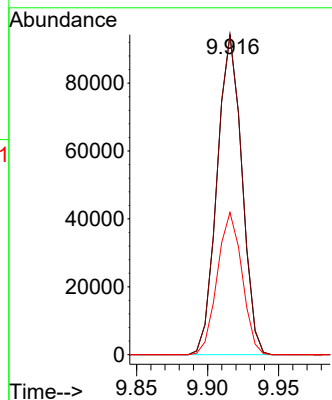
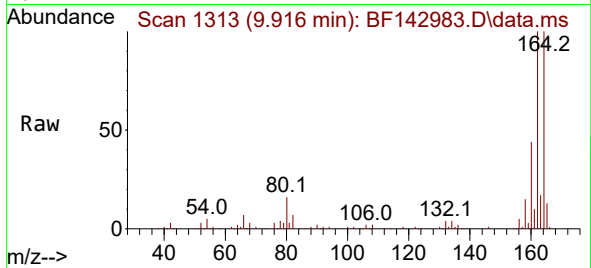




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

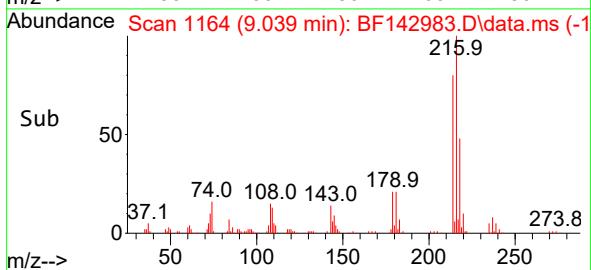
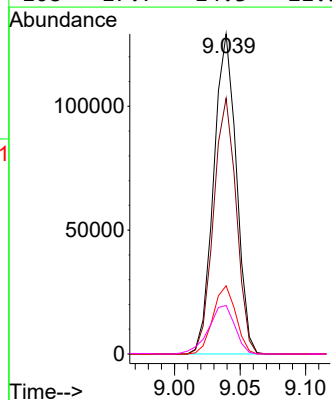
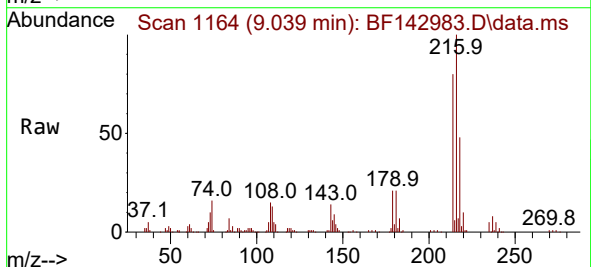
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:164 Resp: 114108
Ion Ratio Lower Upper
164 100
162 99.7 81.8 122.8
160 44.5 36.0 54.0



#40
1,2,4,5-Tetrachlorobenzene
Concen: 46.037 ng
RT: 9.039 min Scan# 1164
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:216 Resp: 155004
Ion Ratio Lower Upper
216 100
214 79.9 63.7 95.5
179 21.4 17.6 26.4
108 17.7 14.3 21.5

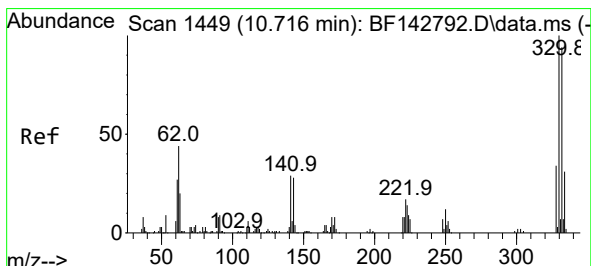
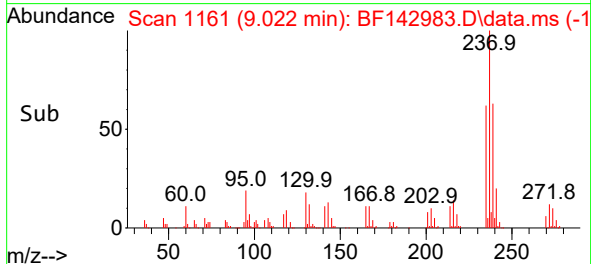
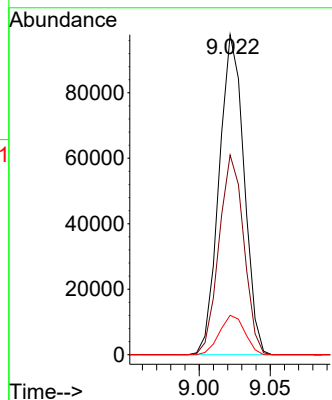
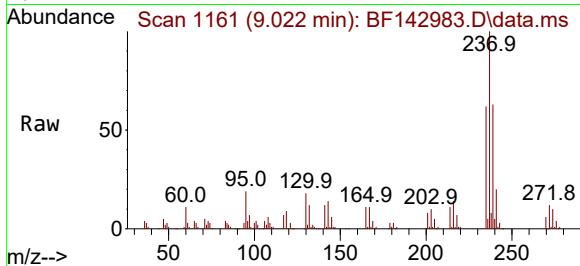




#41
Hexachlorocyclopentadiene
Concen: 62.317 ng
RT: 9.022 min Scan# 1161
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

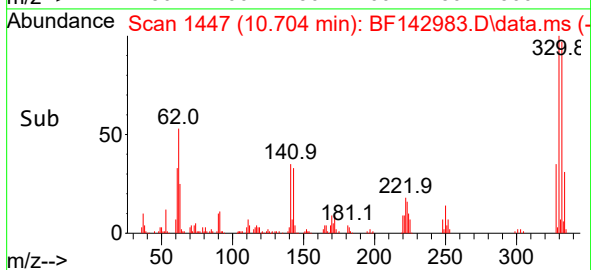
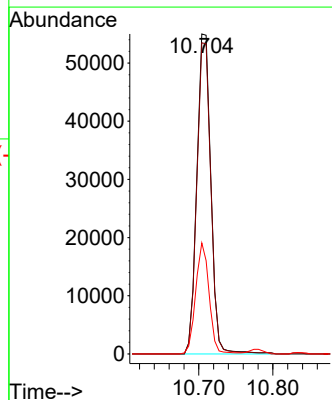
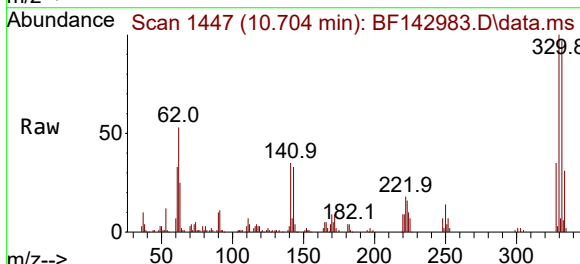
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

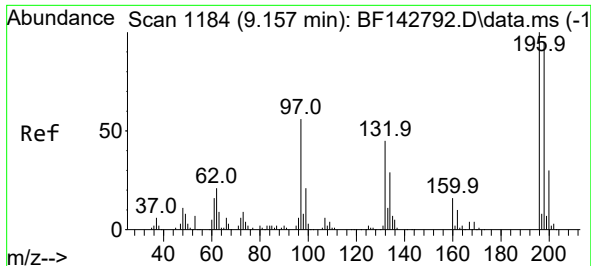
Tgt Ion:237 Resp: 119067
Ion Ratio Lower Upper
237 100
235 62.4 43.4 83.4
272 12.3 0.0 32.7



#42
2,4,6-Tribromophenol
Concen: 61.730 ng
RT: 10.704 min Scan# 1447
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:330 Resp: 72486
Ion Ratio Lower Upper
330 100
332 96.9 75.0 112.6
141 33.2 25.3 37.9

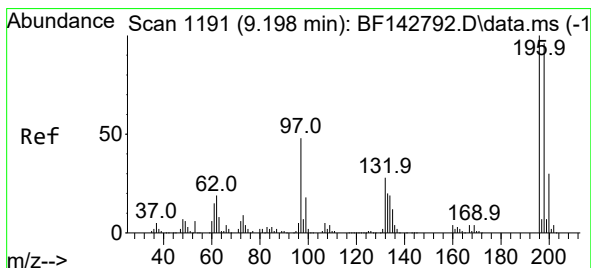
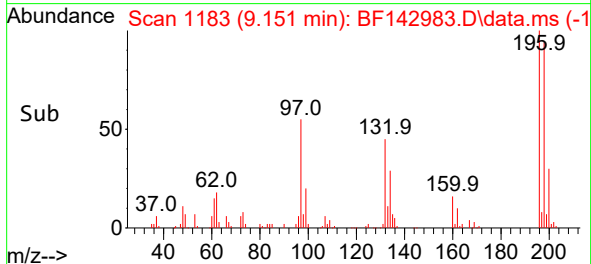
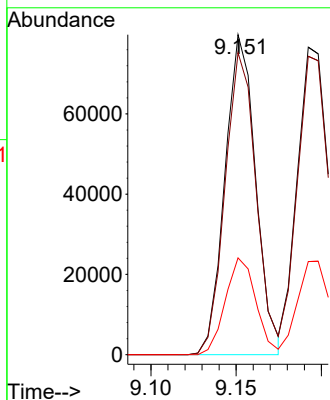
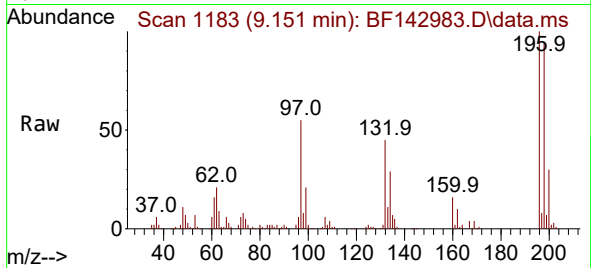




#43
 2,4,6-Trichlorophenol
 Concen: 45.591 ng
 RT: 9.151 min Scan# 1183
 Delta R.T. -0.006 min
 Lab File: BF142983.D
 Acq: 02 Jul 2025 21:22

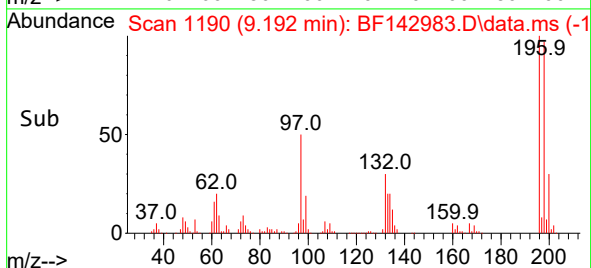
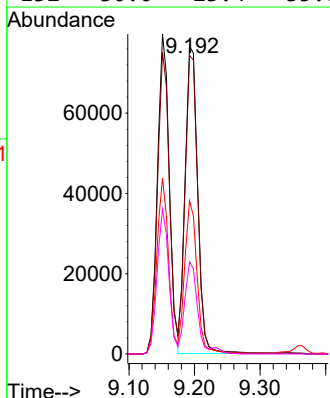
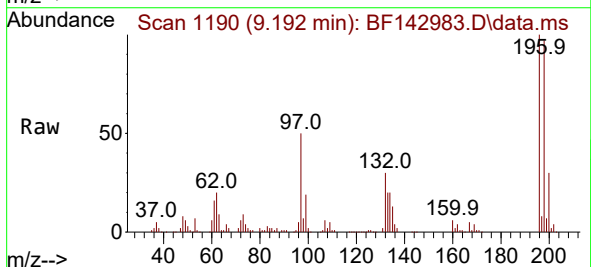
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMSD

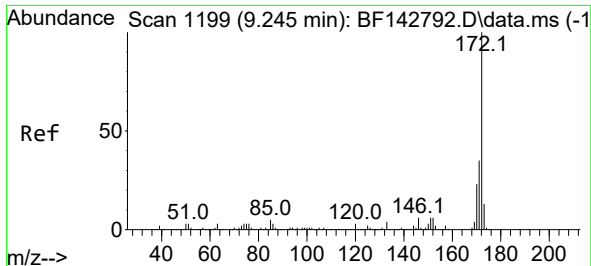
Tgt Ion:196 Resp: 100027
 Ion Ratio Lower Upper
 196 100
 198 94.4 76.2 114.2
 200 30.2 24.1 36.1



#44
 2,4,5-Trichlorophenol
 Concen: 44.072 ng
 RT: 9.192 min Scan# 1190
 Delta R.T. -0.006 min
 Lab File: BF142983.D
 Acq: 02 Jul 2025 21:22

Tgt Ion:196 Resp: 101787
 Ion Ratio Lower Upper
 196 100
 198 97.1 76.6 115.0
 97 49.8 38.2 57.2
 132 30.0 23.4 35.0





#45

2-Fluorobiphenyl

Concen: 42.045 ng

RT: 9.233 min Scan# 1197

Delta R.T. -0.012 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

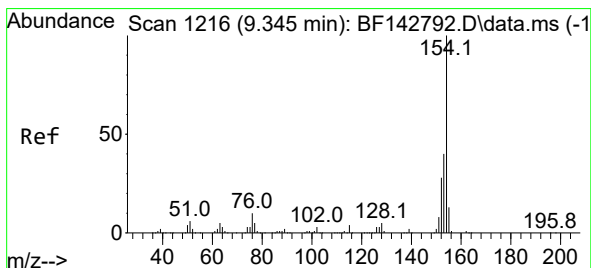
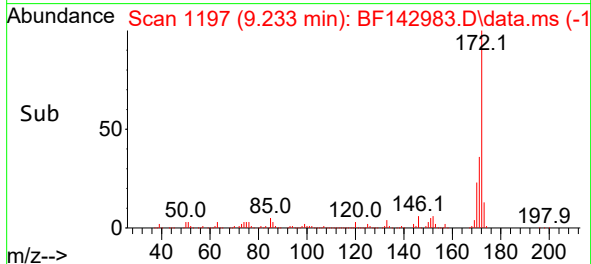
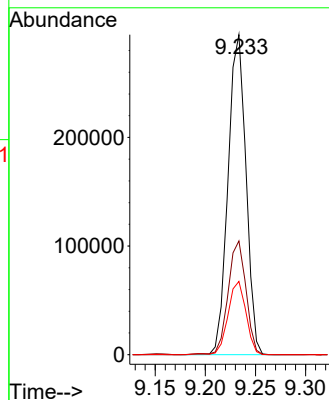
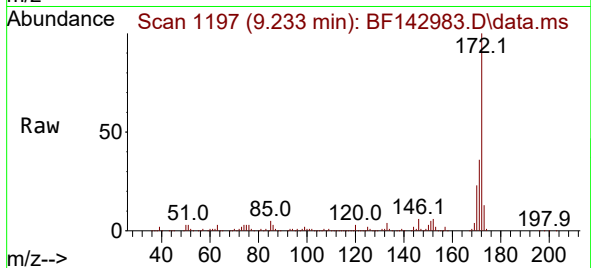
Tgt Ion:172 Resp: 365207

Ion Ratio Lower Upper

172 100

171 35.5 28.2 42.4

170 22.9 18.5 27.7



#46

1,1'-Biphenyl

Concen: 46.265 ng

RT: 9.333 min Scan# 1214

Delta R.T. -0.012 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

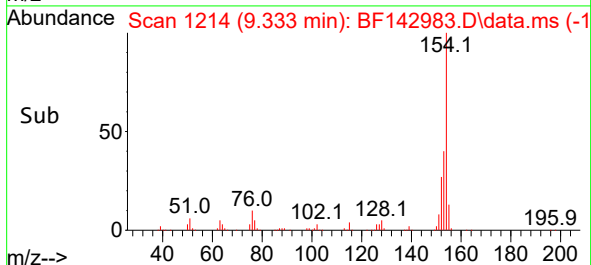
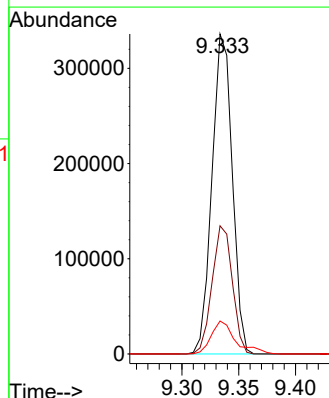
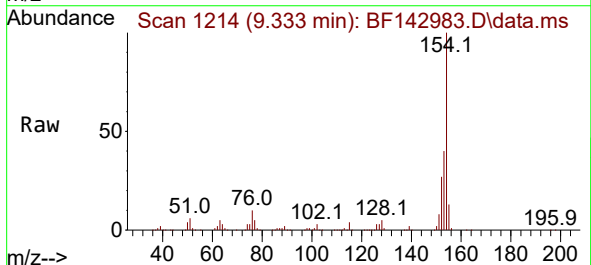
Tgt Ion:154 Resp: 417031

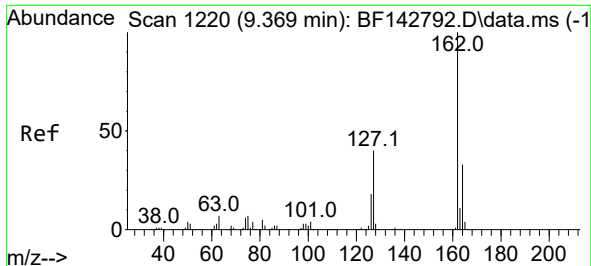
Ion Ratio Lower Upper

154 100

153 40.1 20.3 60.3

76 10.3 0.0 30.3

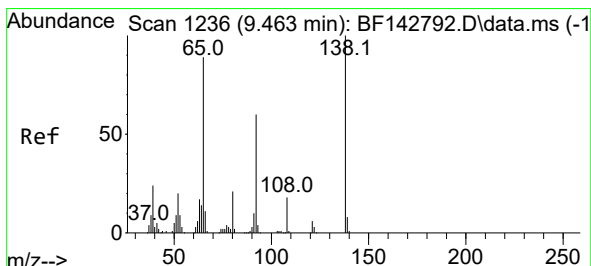
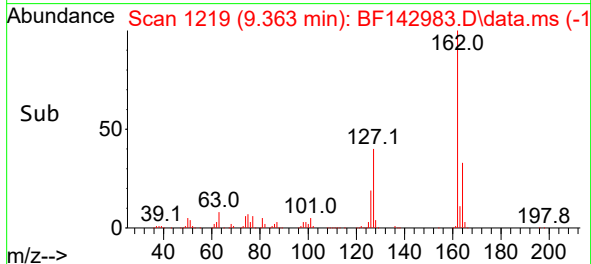
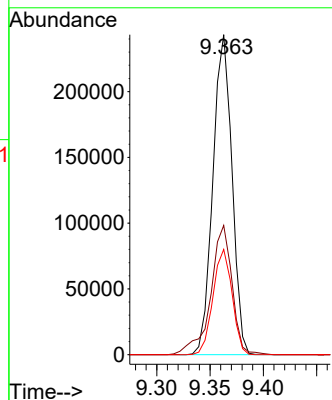
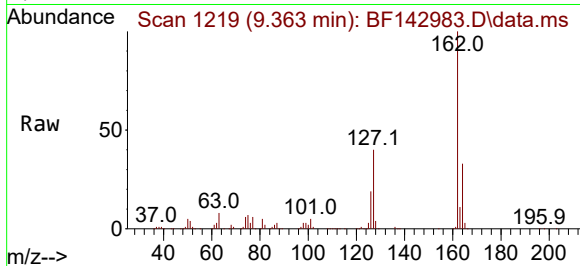




#47
2-Chloronaphthalene
Concen: 44.688 ng
RT: 9.363 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

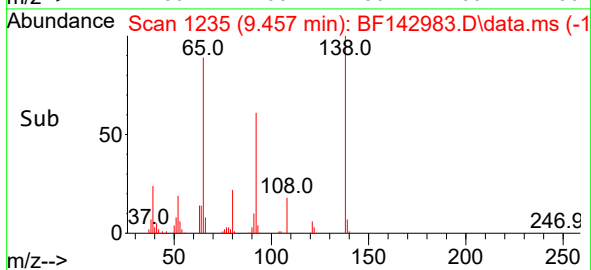
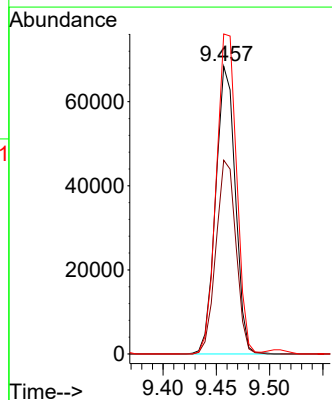
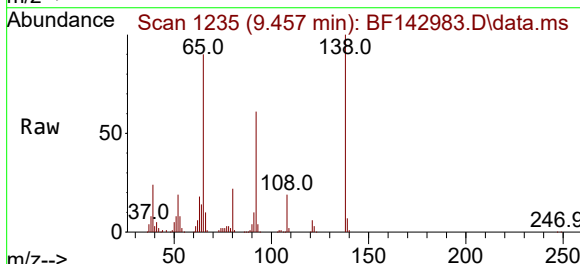
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

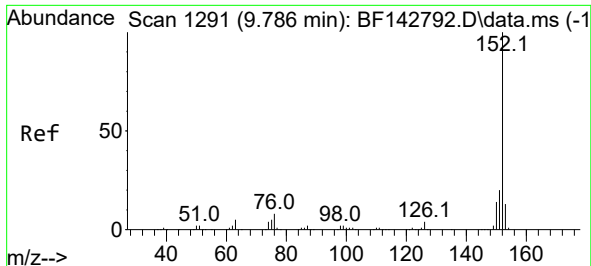
Tgt Ion:162 Resp: 302285
Ion Ratio Lower Upper
162 100
127 40.4 32.2 48.2
164 32.9 26.1 39.1



#48
2-Nitroaniline
Concen: 46.270 ng
RT: 9.457 min Scan# 1235
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion: 65 Resp: 87747
Ion Ratio Lower Upper
65 100
92 67.4 53.8 80.6
138 111.2 89.6 134.4

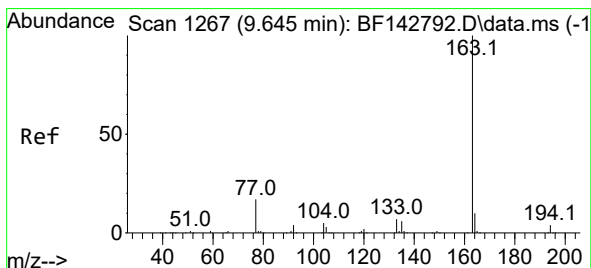
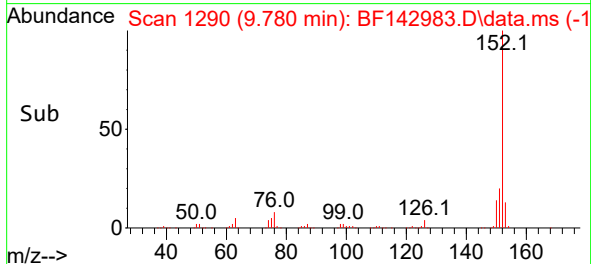
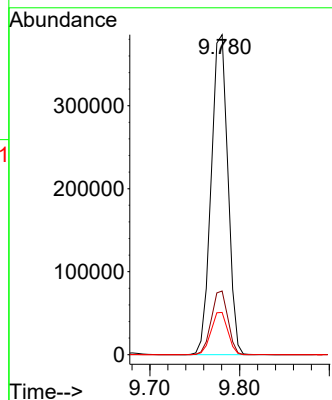
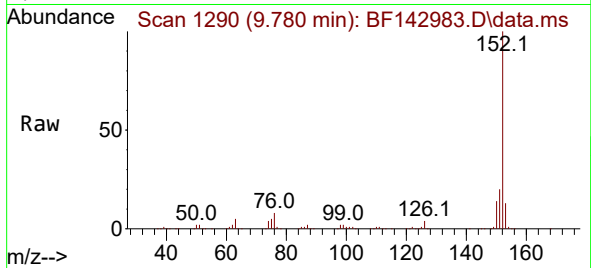




#49
Acenaphthylene
Concen: 44.729 ng
RT: 9.780 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

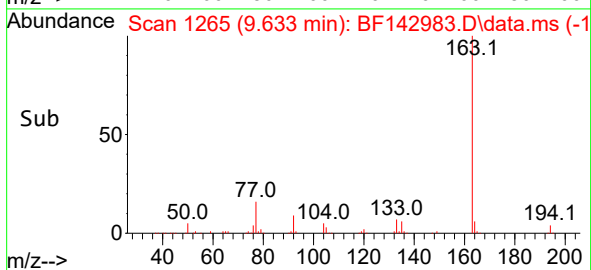
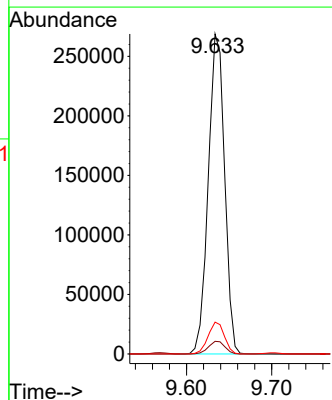
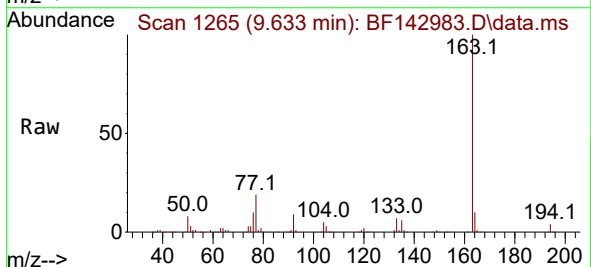
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

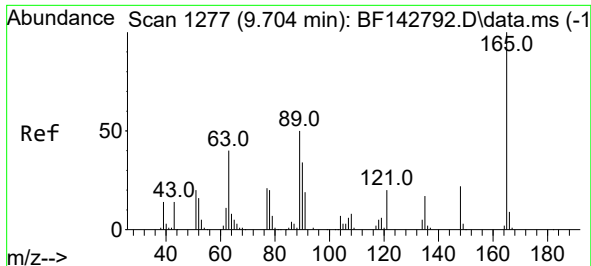
Tgt Ion:152 Resp: 498082
Ion Ratio Lower Upper
152 100
151 19.9 16.1 24.1
153 13.2 10.4 15.6



#50
Dimethylphthalate
Concen: 48.428 ng
RT: 9.633 min Scan# 1265
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:163 Resp: 357699
Ion Ratio Lower Upper
163 100
194 4.0 3.3 4.9
164 10.0 8.0 12.0

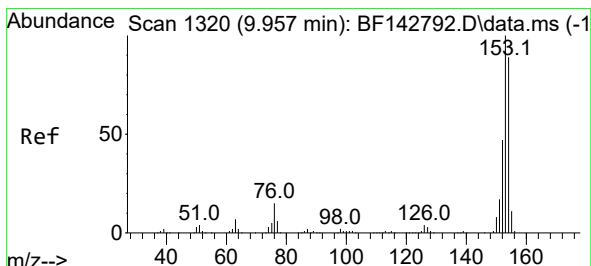
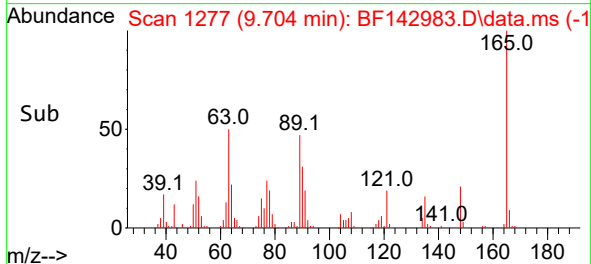
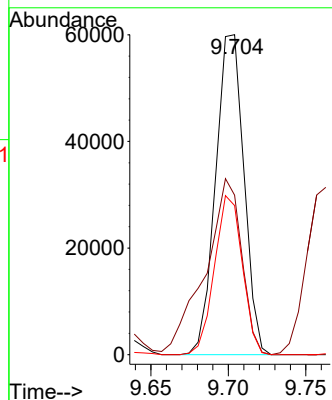
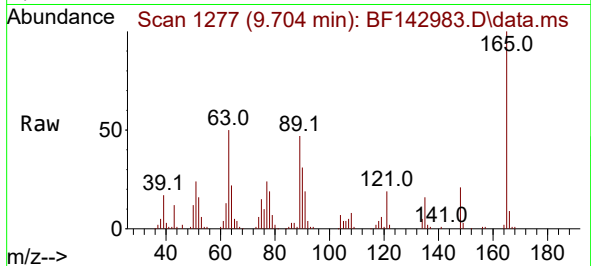




#51
2,6-Dinitrotoluene
Concen: 47.145 ng
RT: 9.704 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

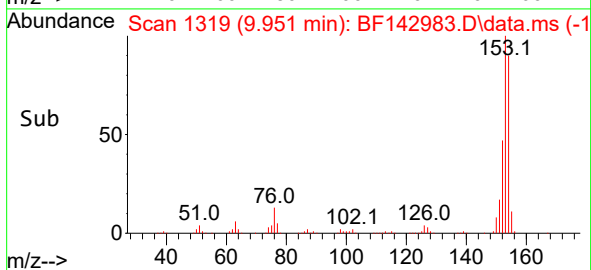
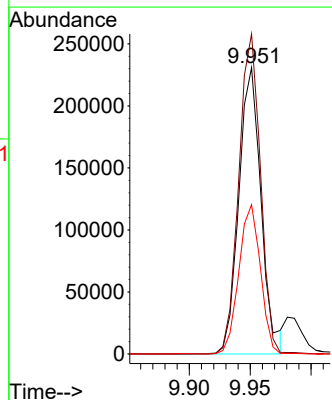
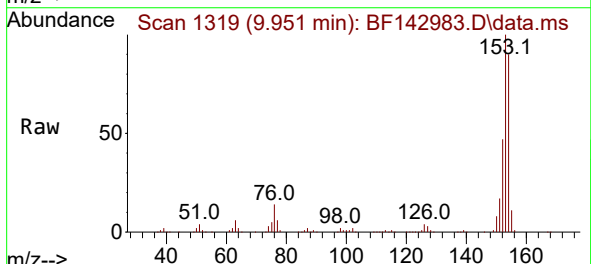
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

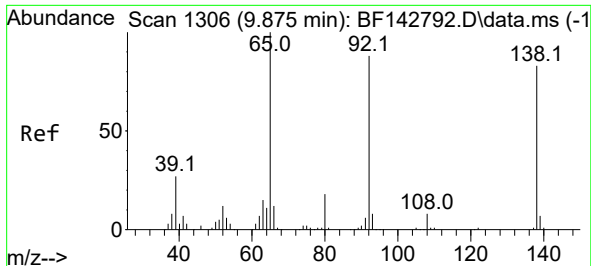
Tgt Ion:165 Resp: 76473
Ion Ratio Lower Upper
165 100
63 49.9 44.2 66.4
89 46.6 39.8 59.8



#52
Acenaphthene
Concen: 43.142 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:154 Resp: 293106
Ion Ratio Lower Upper
154 100
153 111.7 90.0 135.0
152 52.1 41.9 62.9

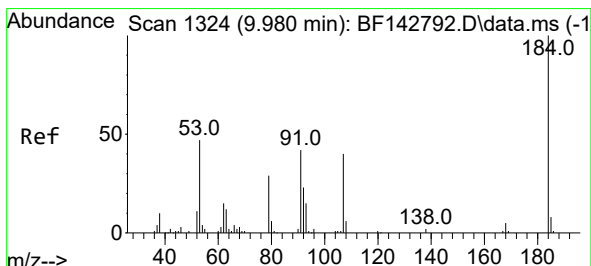
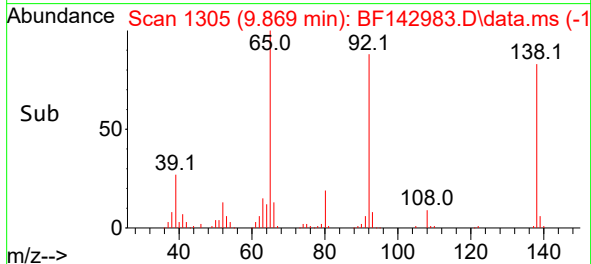
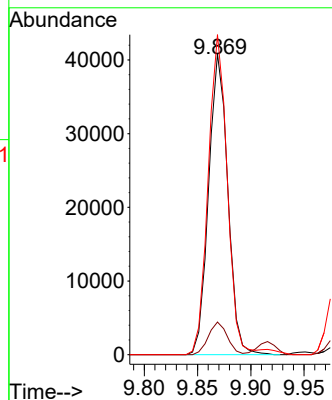
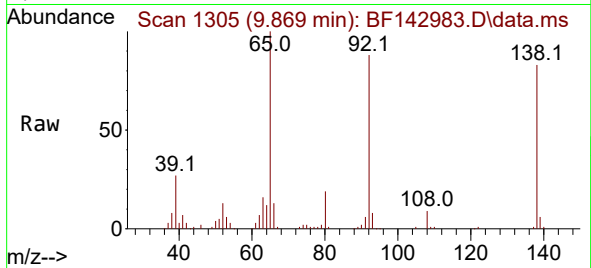




#53
3-Nitroaniline
Concen: 28.623 ng
RT: 9.869 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

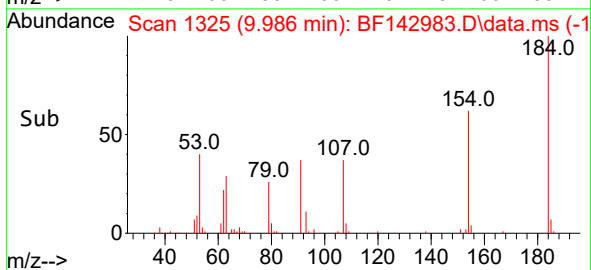
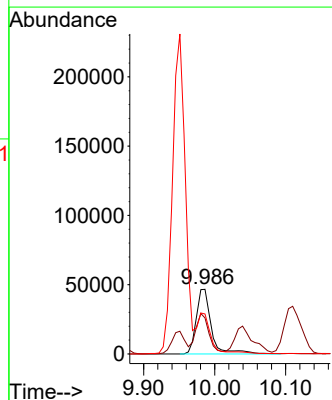
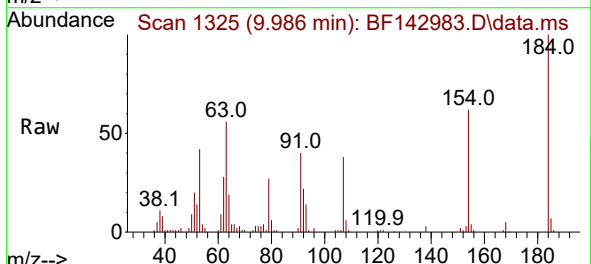
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

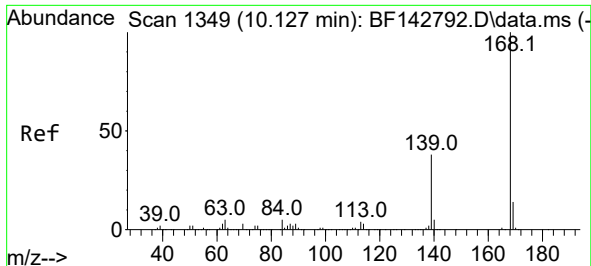
Tgt Ion:138 Resp: 51118
Ion Ratio Lower Upper
138 100
108 10.8 8.1 12.1
92 106.3 85.1 127.7



#54
2,4-Dinitrophenol
Concen: 85.190 ng
RT: 9.986 min Scan# 1325
Delta R.T. 0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:184 Resp: 69192
Ion Ratio Lower Upper
184 100
63 55.5 50.6 75.8
154 61.7 51.8 77.8

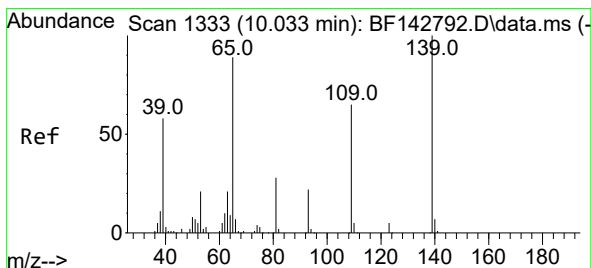
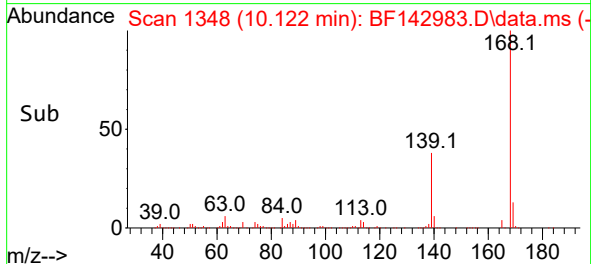
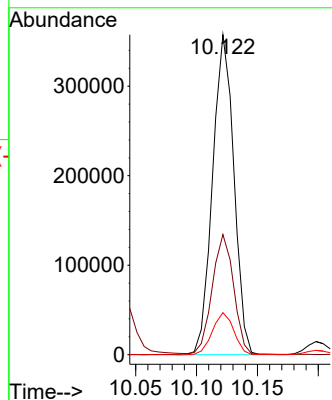
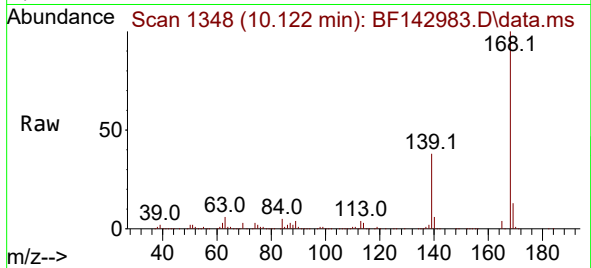




#55
Dibenzenofuran
Concen: 44.557 ng
RT: 10.122 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

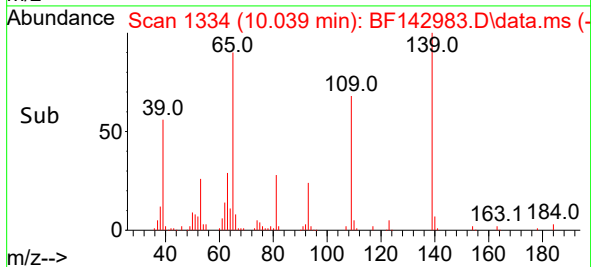
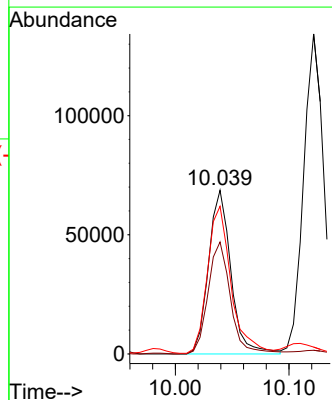
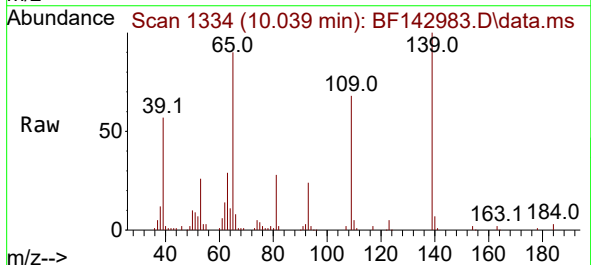
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

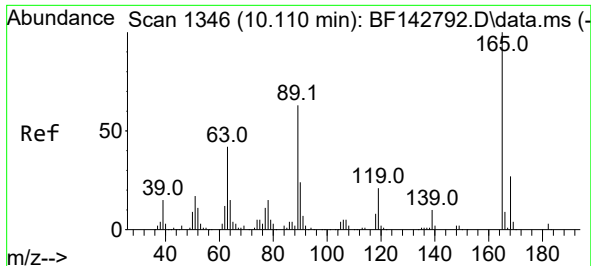
Tgt Ion:168 Resp: 434092
Ion Ratio Lower Upper
168 100
139 37.6 30.2 45.4
169 13.1 10.8 16.2



#56
4-Nitrophenol
Concen: 77.081 ng
RT: 10.039 min Scan# 1334
Delta R.T. 0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:139 Resp: 94243
Ion Ratio Lower Upper
139 100
109 68.4 44.7 84.7
65 90.2 69.8 109.8

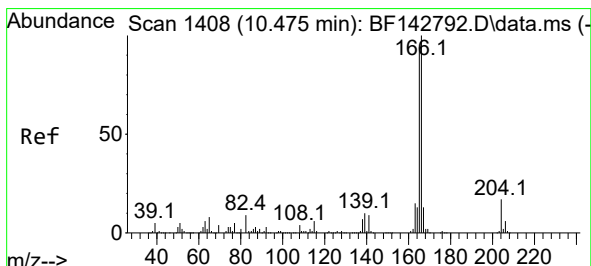
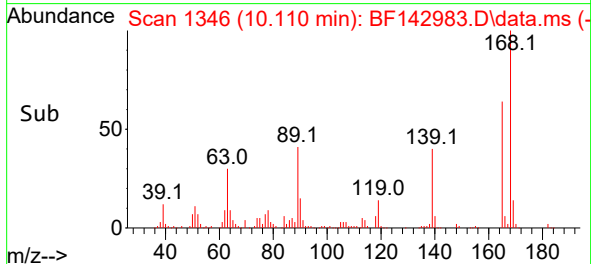
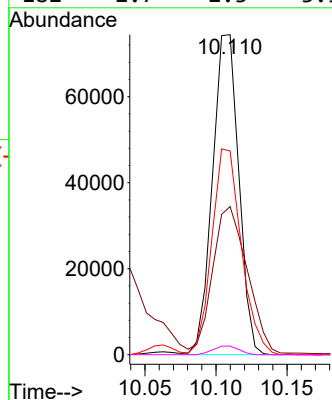
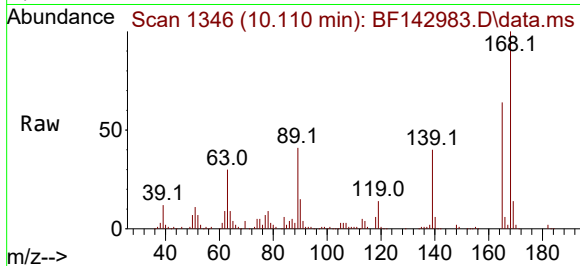




#57
2,4-Dinitrotoluene
Concen: 44.486 ng
RT: 10.110 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

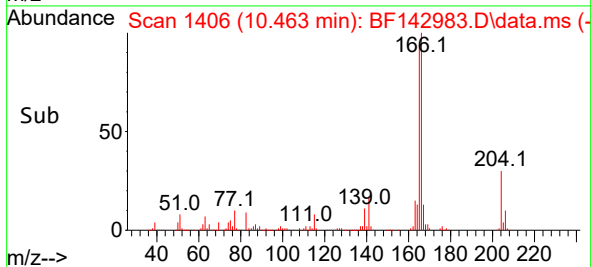
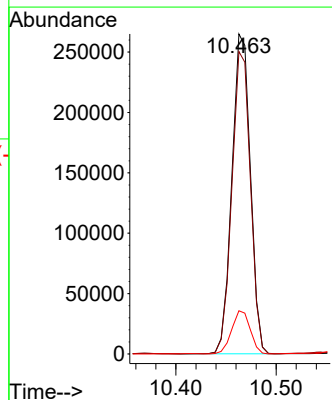
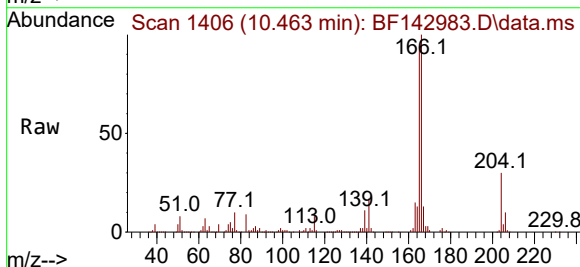
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:	165	Resp:	95850
Ion Ratio	Lower	Upper	
165	100		
63	46.3	33.9	50.9
89	63.6	50.6	75.8
182	2.7	2.3	3.5



#58
Fluorene
Concen: 44.485 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:	166	Resp:	338474
Ion Ratio	Lower	Upper	
166	100		
165	94.5	75.2	112.8
167	13.5	10.6	15.8

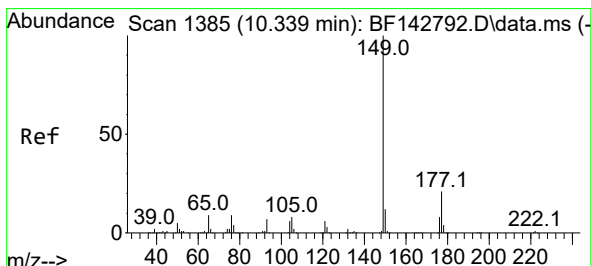
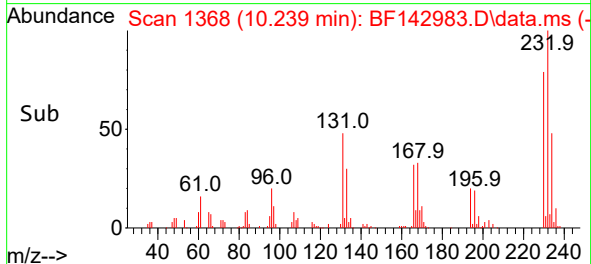
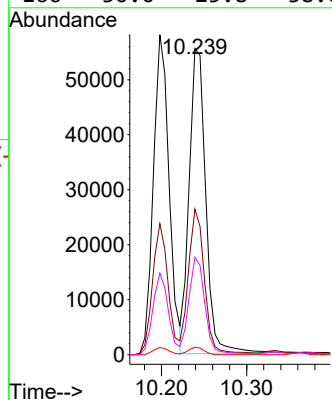
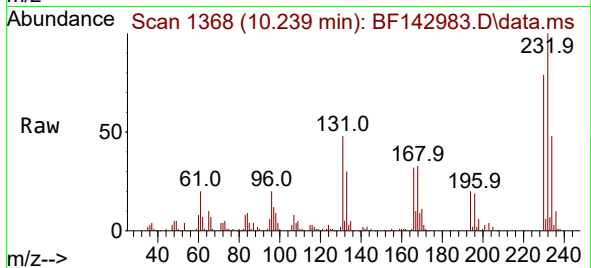




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.193 ng
RT: 10.239 min Scan# 1368
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

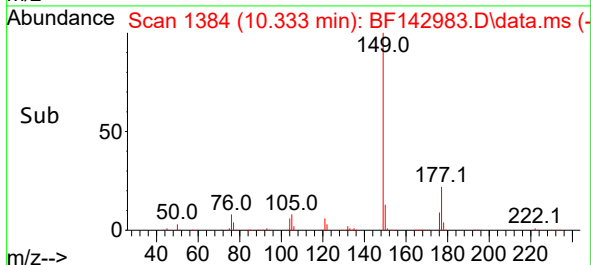
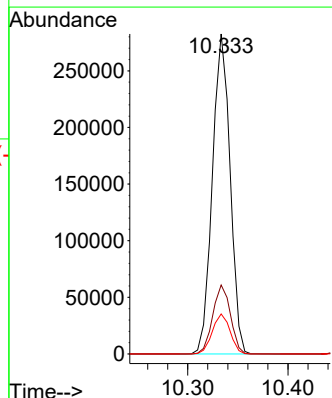
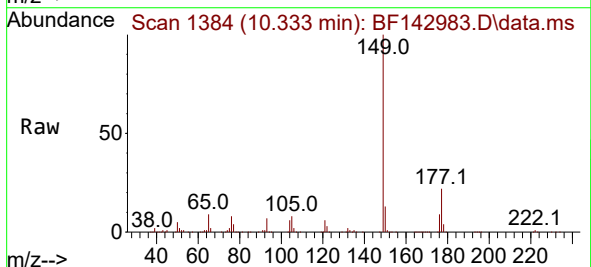
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

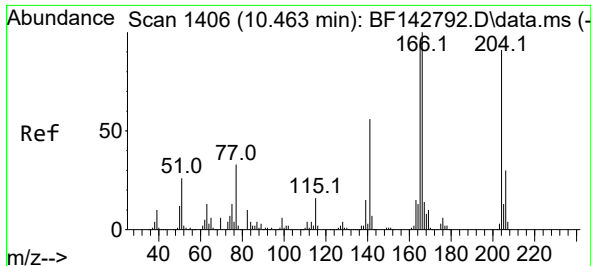
Tgt Ion:232 Resp: 74824
Ion Ratio Lower Upper
232 100
131 44.9 37.6 56.4
130 2.3 1.7 2.5
166 30.0 25.8 38.6



#60
Diethylphthalate
Concen: 47.933 ng
RT: 10.333 min Scan# 1384
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:149 Resp: 347136
Ion Ratio Lower Upper
149 100
177 21.5 17.0 25.6
150 12.5 9.8 14.6

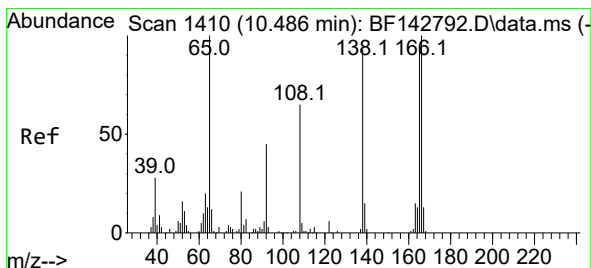
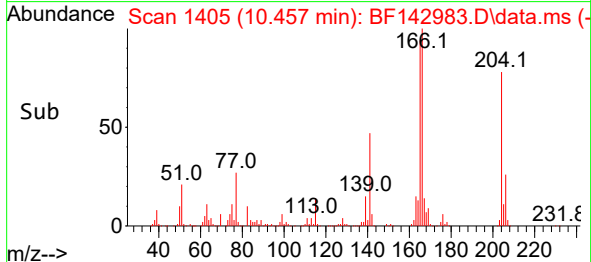
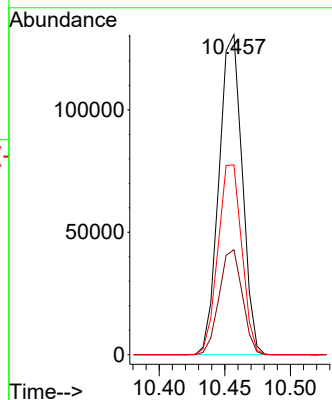
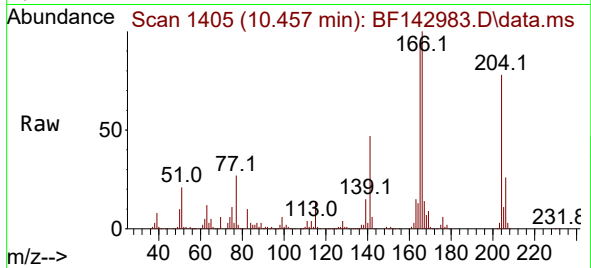




#61
4-Chlorophenyl-phenylether
Concen: 44.397 ng
RT: 10.457 min Scan# 1405
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

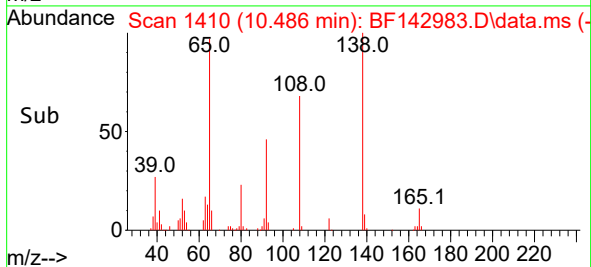
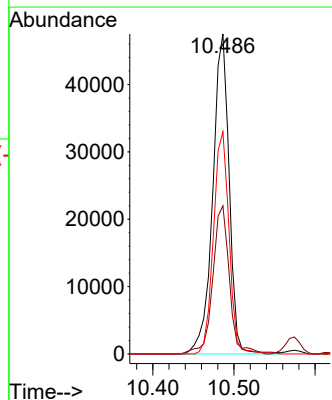
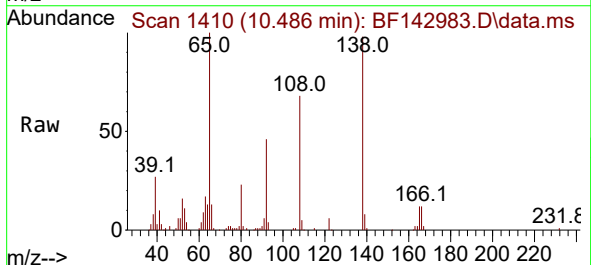
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

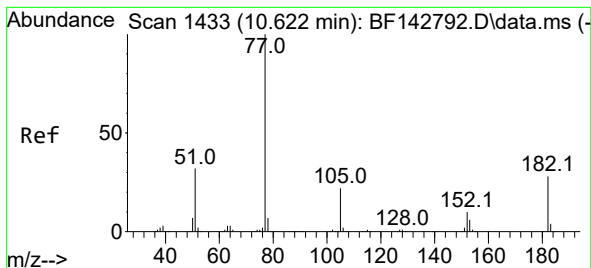
Tgt Ion:204 Resp: 161194
Ion Ratio Lower Upper
204 100
206 32.8 26.3 39.5
141 59.3 49.1 73.7



#62
4-Nitroaniline
Concen: 40.903 ng
RT: 10.486 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:138 Resp: 66810
Ion Ratio Lower Upper
138 100
92 46.3 28.4 68.4
108 69.5 50.2 90.2





#63

Azobenzene

Concen: 45.815 ng

RT: 10.616 min Scan# 1432

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

Tgt Ion: 77 Resp: 296548

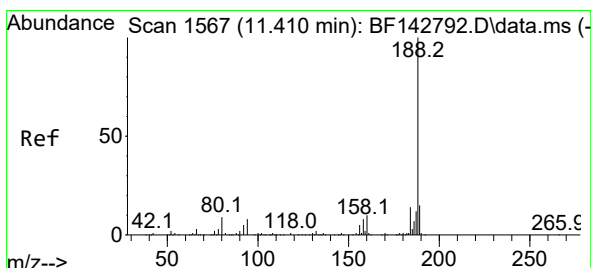
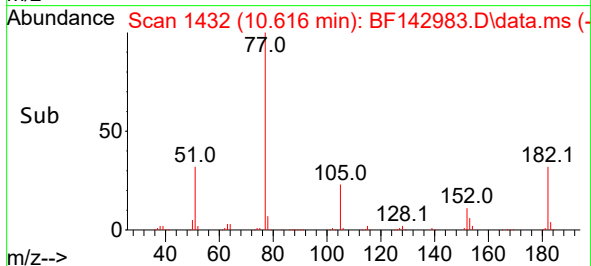
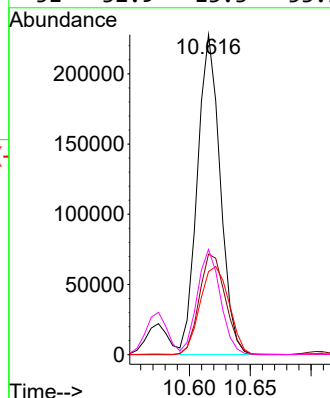
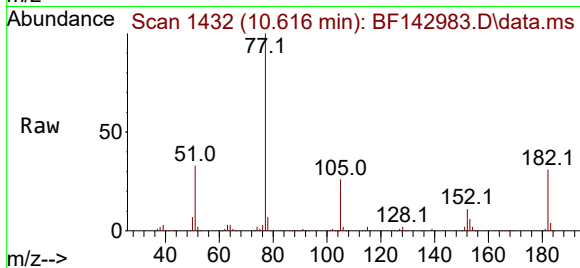
Ion Ratio Lower Upper

77 100

182 31.4 7.7 47.7

105 26.0 1.9 41.9

51 32.9 13.3 53.3



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.404 min Scan# 1566

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

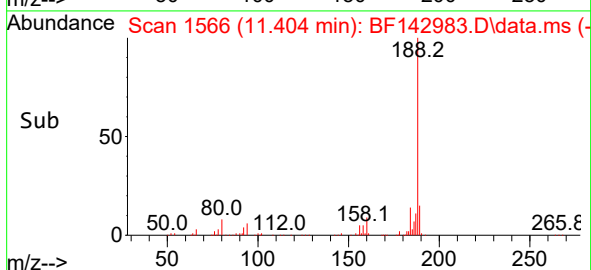
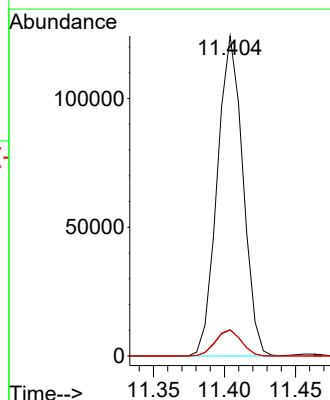
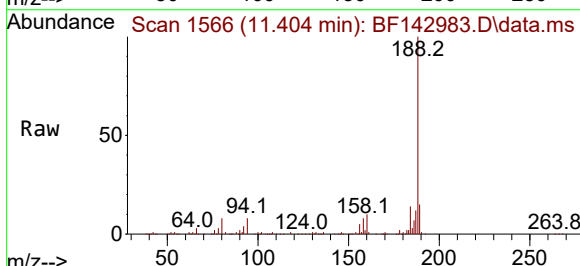
Tgt Ion:188 Resp: 156089

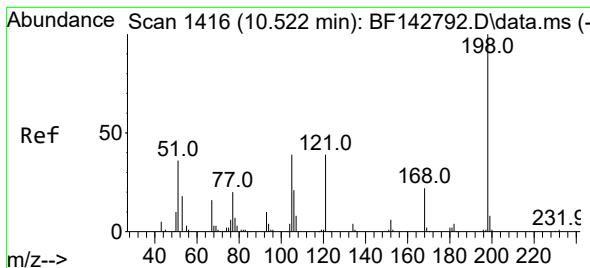
Ion Ratio Lower Upper

188 100

94 8.1 6.7 10.1

80 8.2 6.9 10.3

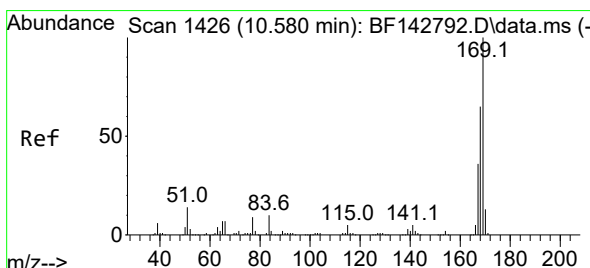
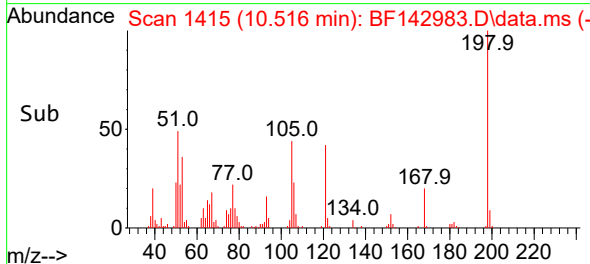
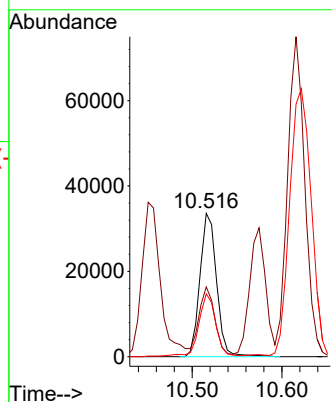
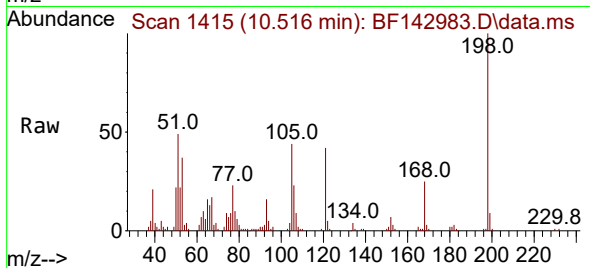




#65
4,6-Dinitro-2-methylphenol
Concen: 45.788 ng
RT: 10.516 min Scan# 1416
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

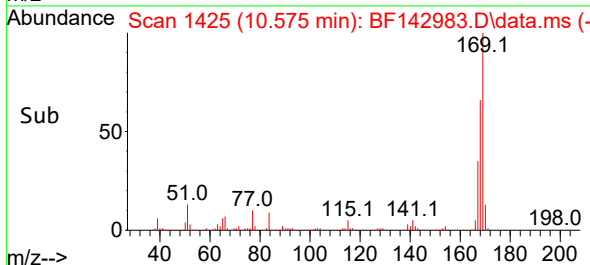
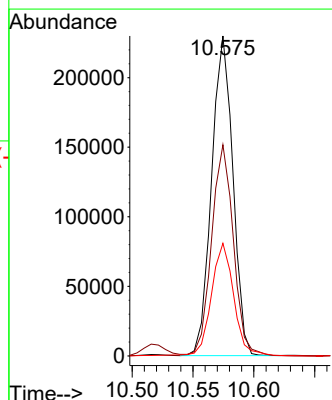
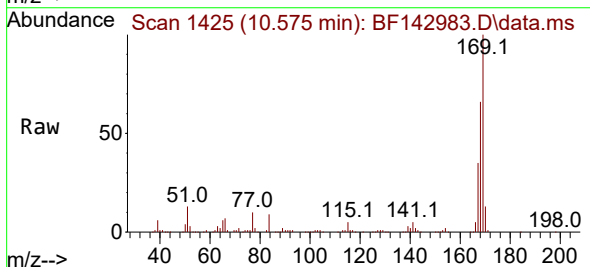
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

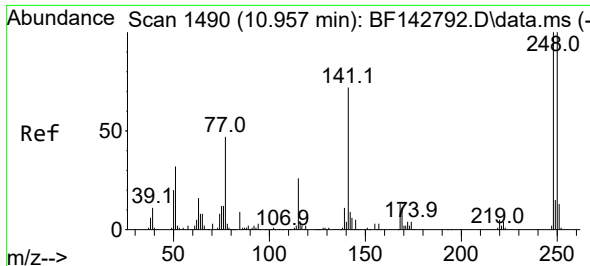
Tgt Ion:198 Resp: 43230
Ion Ratio Lower Upper
198 100
51 48.7 25.4 65.4
105 43.8 20.4 60.4



#66
n-Nitrosodiphenylamine
Concen: 51.614 ng
RT: 10.575 min Scan# 1425
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:169 Resp: 279214
Ion Ratio Lower Upper
169 100
168 66.0 51.9 77.9
167 35.2 28.5 42.7

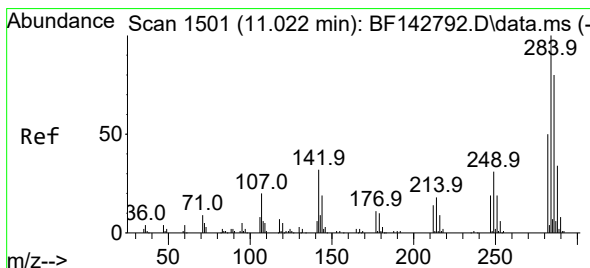
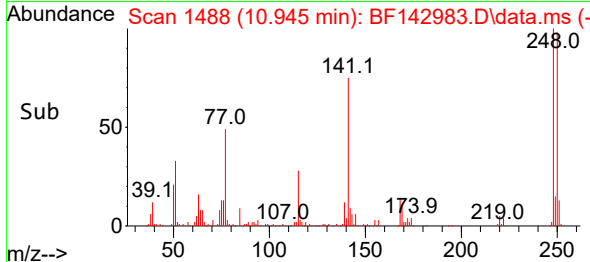
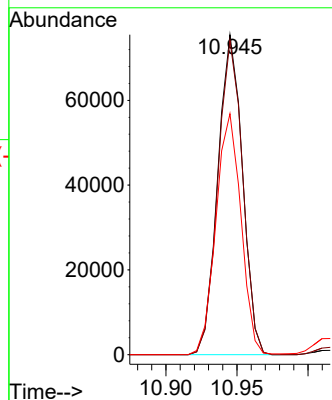
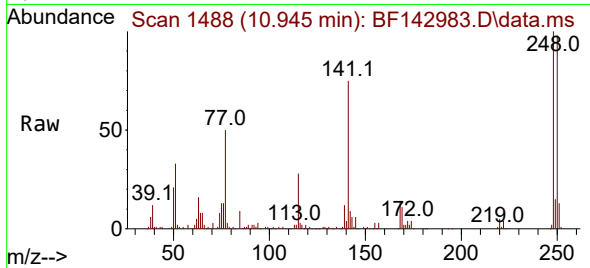




#67
4-Bromophenyl-phenylether
Concen: 51.341 ng
RT: 10.945 min Scan# 1488
Delta R.T. -0.012 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

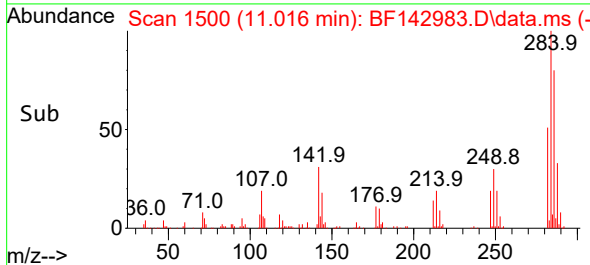
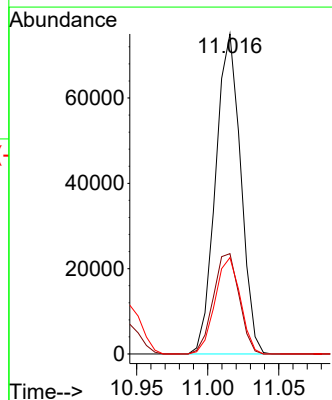
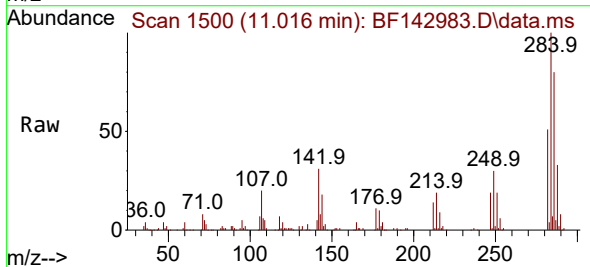
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:248 Resp: 91204
Ion Ratio Lower Upper
248 100
250 98.2 79.8 119.8
141 75.3 57.8 86.6



#68
Hexachlorobenzene
Concen: 46.701 ng
RT: 11.016 min Scan# 1500
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:284 Resp: 92184
Ion Ratio Lower Upper
284 100
142 31.4 25.5 38.3
249 30.1 24.9 37.3





#69

Atrazine

Concen: 59.345 ng

RT: 11.098 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

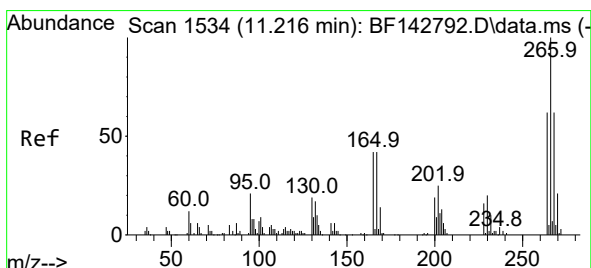
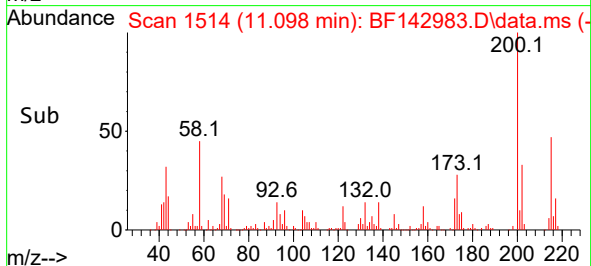
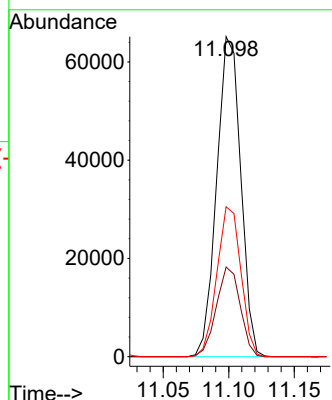
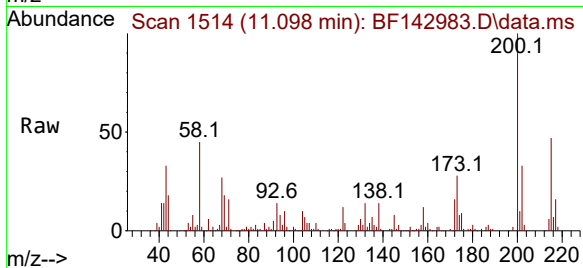
Tgt Ion:200 Resp: 82902

Ion Ratio Lower Upper

200 100

173 28.0 7.4 47.4

215 46.9 28.4 68.4



#70

Pentachlorophenol

Concen: 89.996 ng

RT: 11.210 min Scan# 1533

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

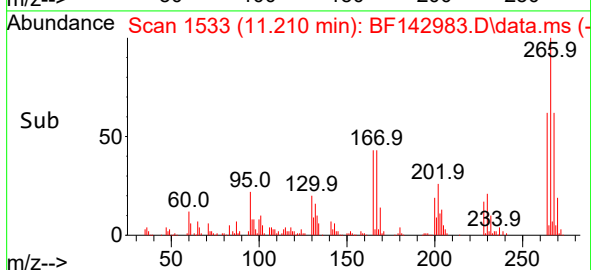
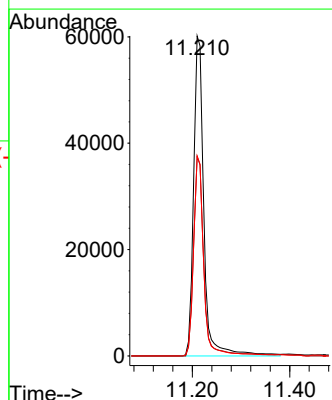
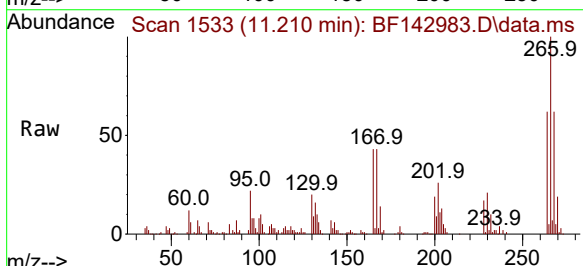
Tgt Ion:266 Resp: 88521

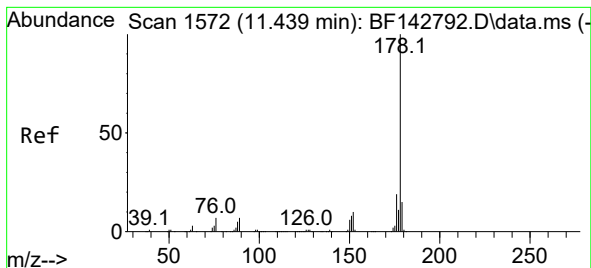
Ion Ratio Lower Upper

266 100

268 62.3 49.8 74.8

264 62.5 49.9 74.9





#71

Phenanthrene

Concen: 57.667 ng

RT: 11.427 min Scan# 1570

Delta R.T. -0.012 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

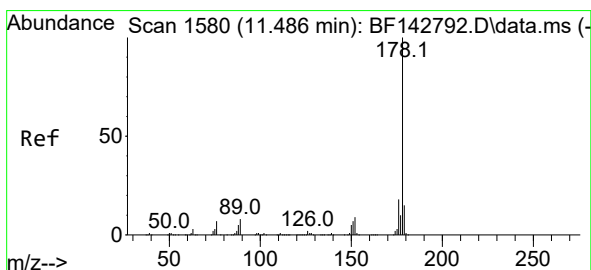
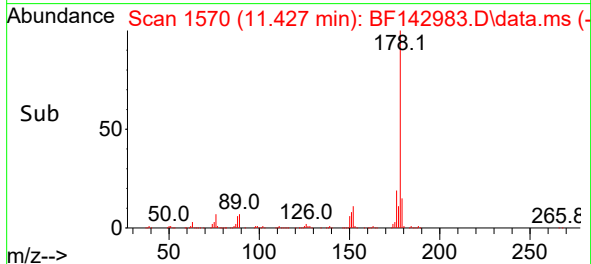
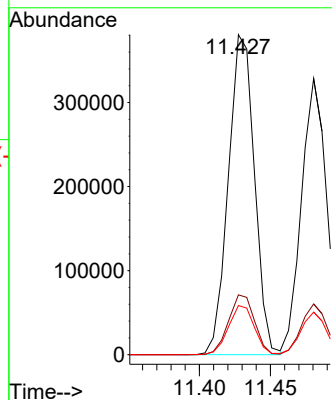
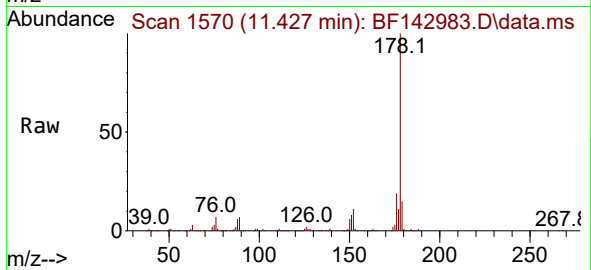
Tgt Ion:178 Resp: 487597

Ion Ratio Lower Upper

178 100

176 18.7 15.1 22.7

179 15.4 12.0 18.0



#72

Anthracene

Concen: 46.662 ng

RT: 11.480 min Scan# 1579

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

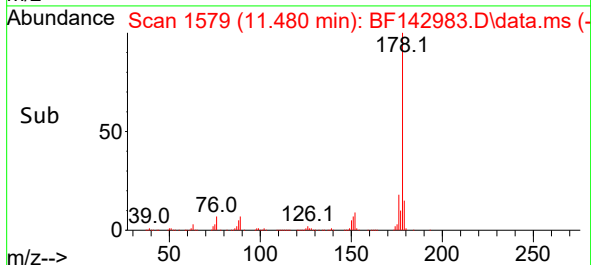
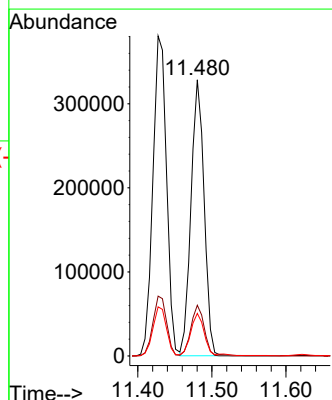
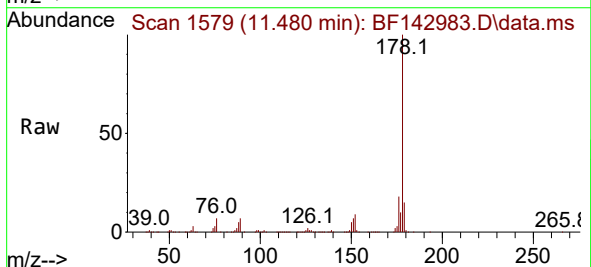
Tgt Ion:178 Resp: 404639

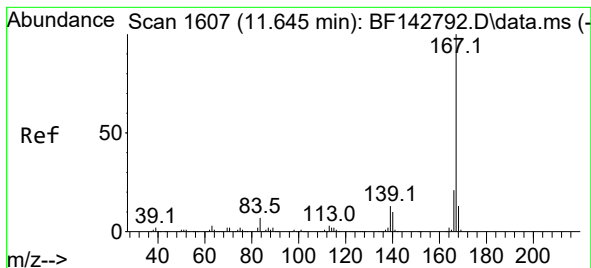
Ion Ratio Lower Upper

178 100

176 18.4 14.6 21.8

179 15.4 12.4 18.6





#73

Carbazole

Concen: 47.424 ng

RT: 11.633 min Scan# 1

Delta R.T. -0.012 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

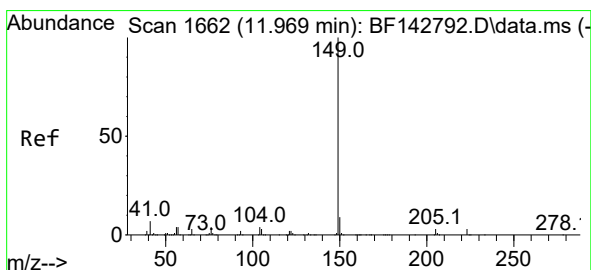
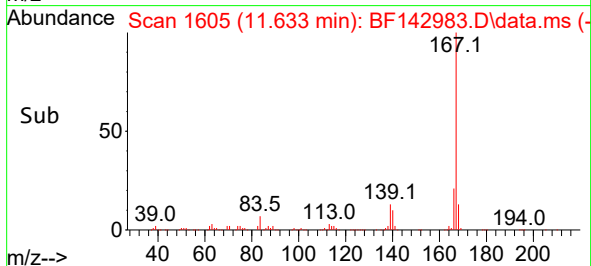
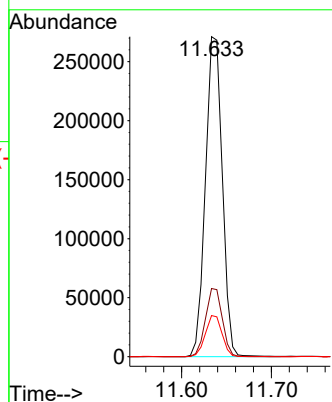
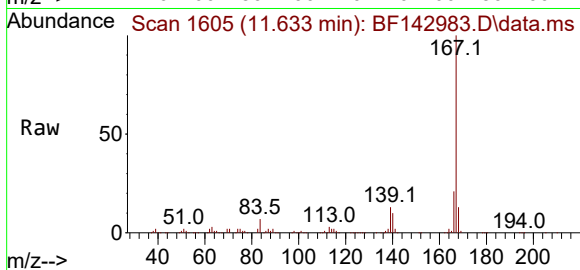
Tgt Ion:167 Resp: 354891

Ion Ratio Lower Upper

167 100

166 21.3 17.0 25.4

139 12.9 10.2 15.2



#74

Di-n-butylphthalate

Concen: 57.268 ng

RT: 11.963 min Scan# 1661

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

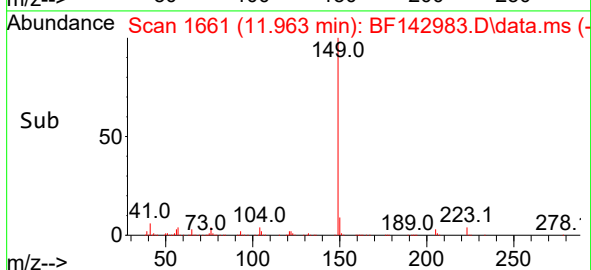
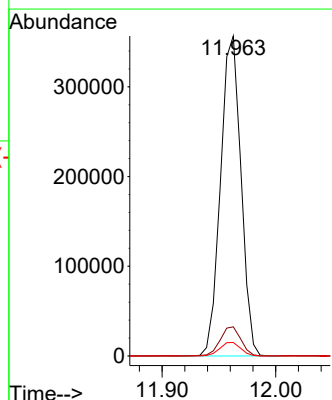
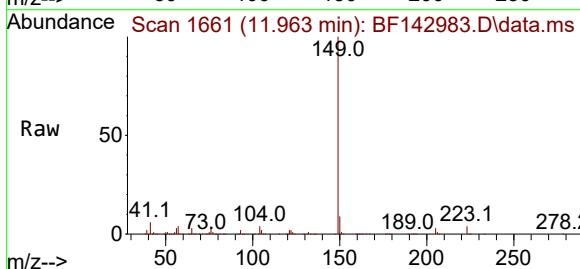
Tgt Ion:149 Resp: 446448

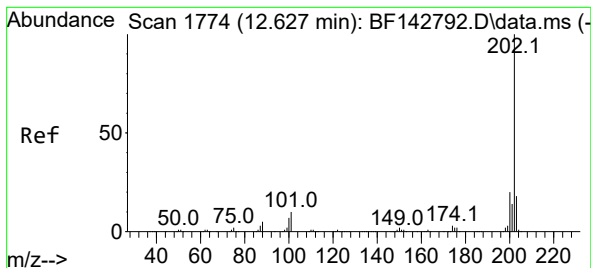
Ion Ratio Lower Upper

149 100

150 9.1 7.4 11.0

104 4.2 3.5 5.3





#75

Fluoranthene

Concen: 80.511 ng

RT: 12.621 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

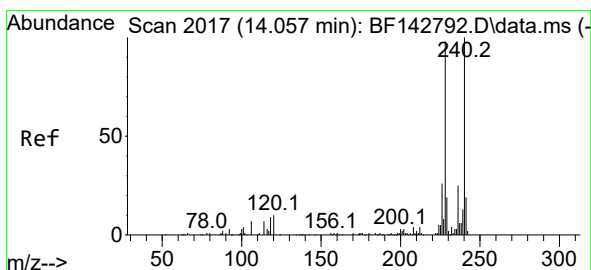
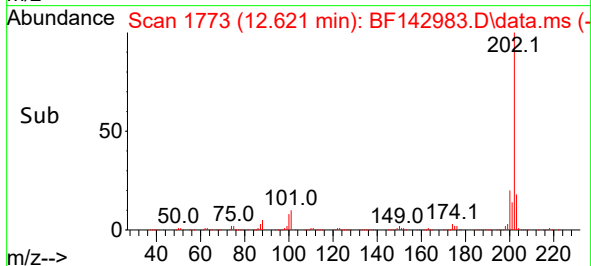
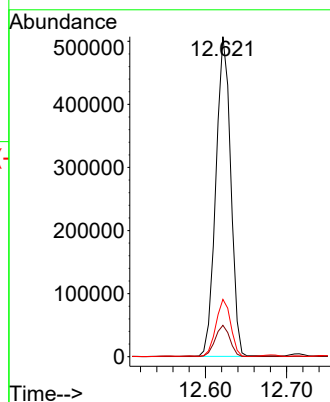
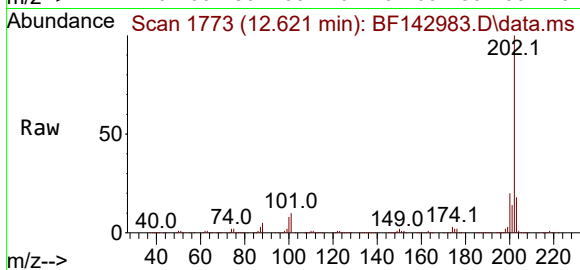
Tgt Ion:202 Resp: 646065

Ion Ratio Lower Upper

202 100

101 9.8 0.0 29.7

203 17.9 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

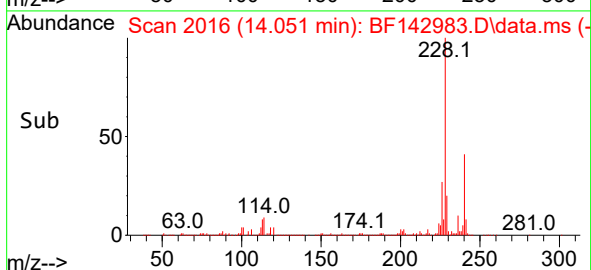
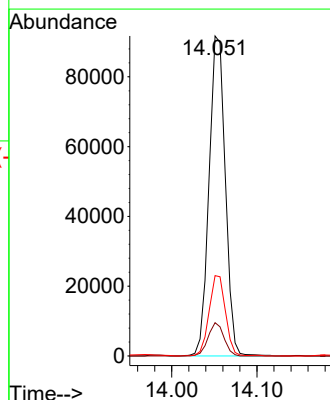
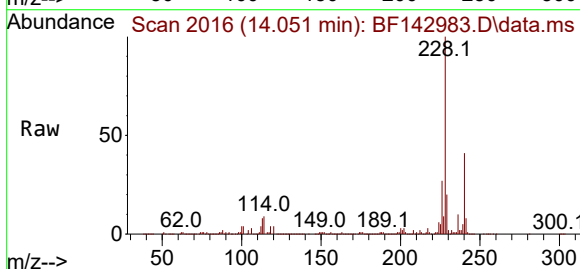
Tgt Ion:240 Resp: 121729

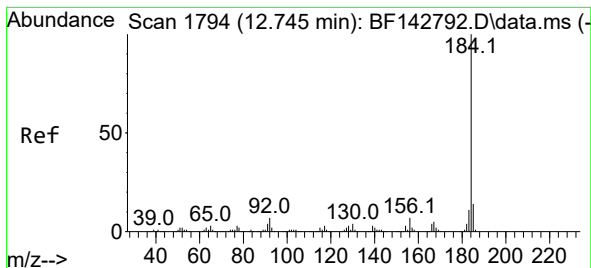
Ion Ratio Lower Upper

240 100

120 10.4 8.2 12.2

236 25.1 19.8 29.8





#77

Benzidine

Concen: 57.937 ng

RT: 12.745 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

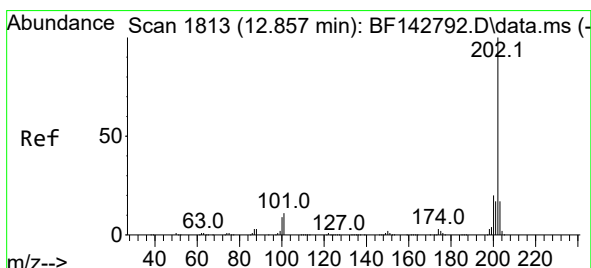
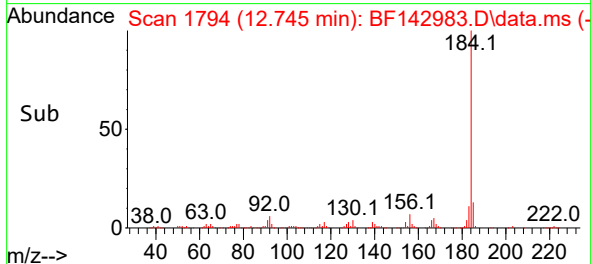
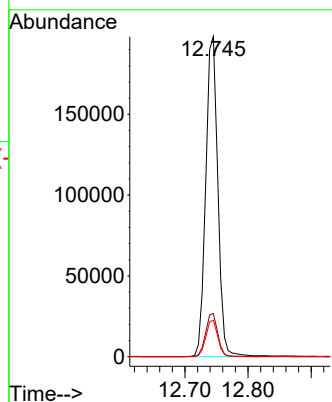
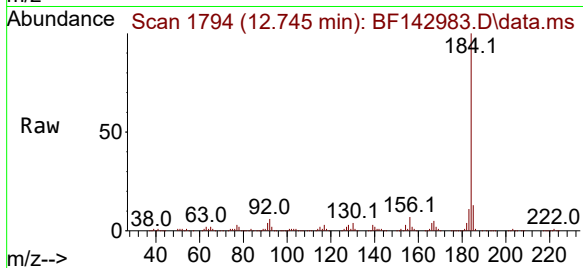
Tgt Ion:184 Resp: 264973

Ion Ratio Lower Upper

184 100

185 13.5 11.5 17.3

183 11.4 9.0 13.4



#78

Pyrene

Concen: 54.312 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

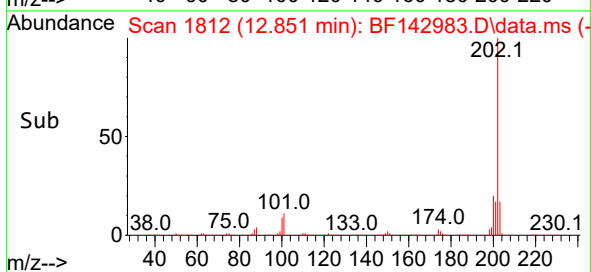
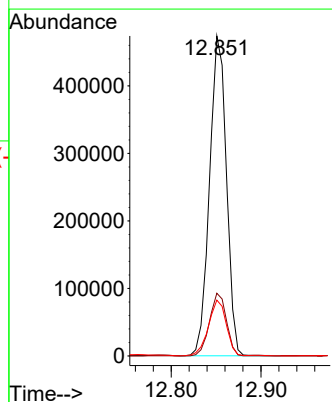
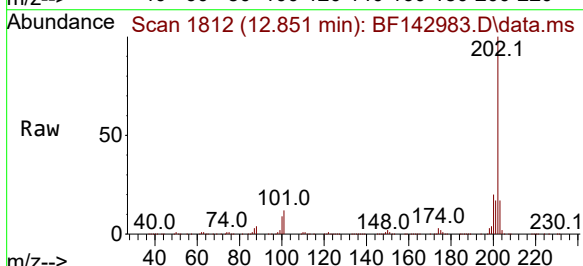
Tgt Ion:202 Resp: 619710

Ion Ratio Lower Upper

202 100

200 19.6 15.7 23.5

203 17.4 13.8 20.6

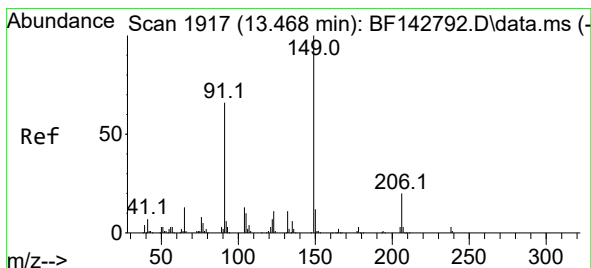
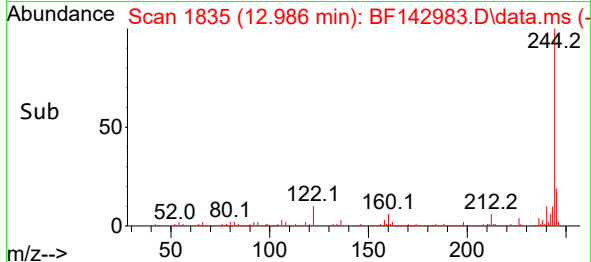
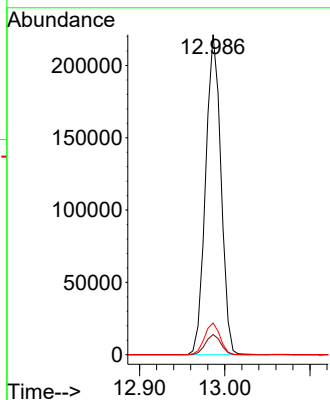
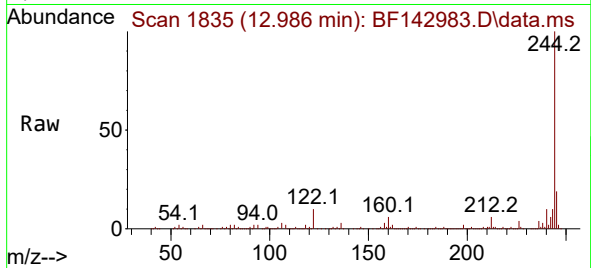




#79
 Terphenyl-d14
 Concen: 31.383 ng
 RT: 12.986 min Scan# 1835
 Delta R.T. -0.012 min
 Lab File: BF142983.D
 Acq: 02 Jul 2025 21:22

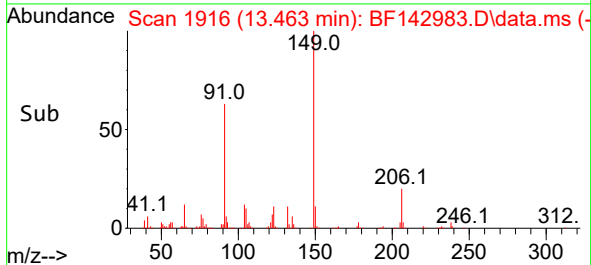
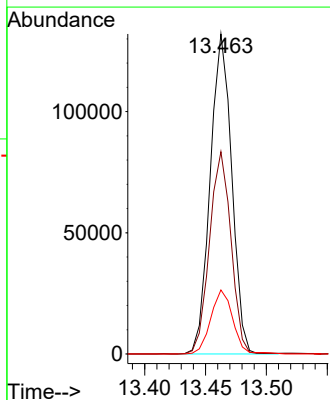
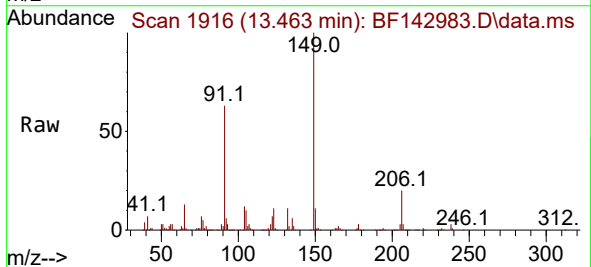
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILEMSD

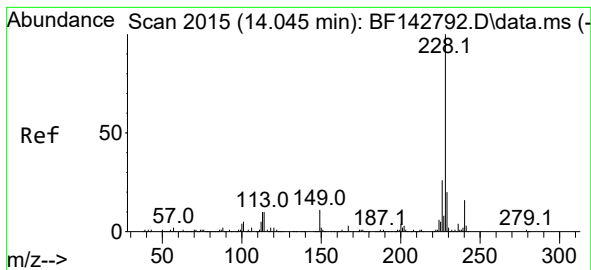
Tgt Ion:244 Resp: 276488
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.4 8.0
 122 9.9 8.2 12.2



#80
 Butylbenzylphthalate
 Concen: 49.058 ng
 RT: 13.463 min Scan# 1916
 Delta R.T. -0.006 min
 Lab File: BF142983.D
 Acq: 02 Jul 2025 21:22

Tgt Ion:149 Resp: 162371
 Ion Ratio Lower Upper
 149 100
 91 63.2 52.9 79.3
 206 20.0 16.3 24.5





#81

Benzo(a)anthracene

Concen: 58.258 ng

RT: 14.045 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

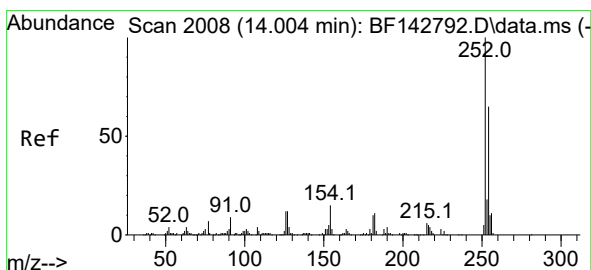
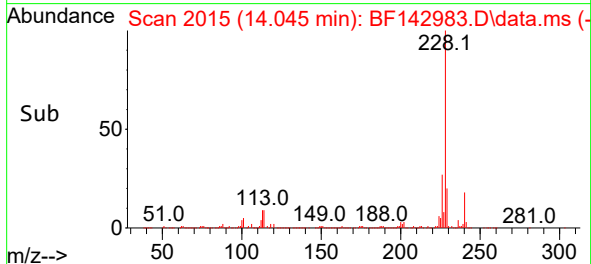
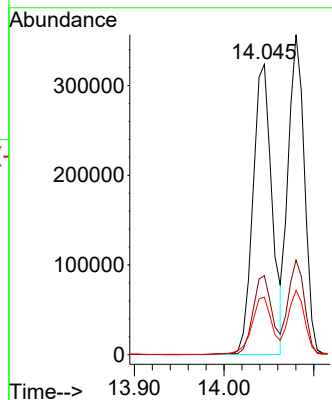
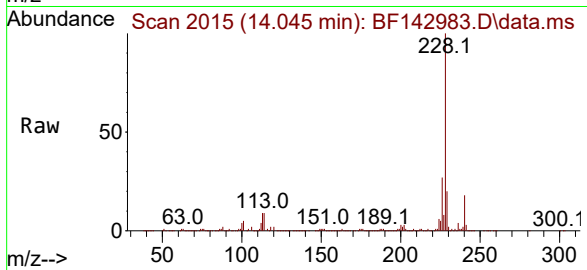
Tgt Ion:228 Resp: 478410

Ion Ratio Lower Upper

228 100

226 27.2 21.2 31.8

229 19.8 15.6 23.4



#82

3,3'-Dichlorobenzidine

Concen: 29.942 ng

RT: 14.004 min Scan# 2008

Delta R.T. 0.000 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

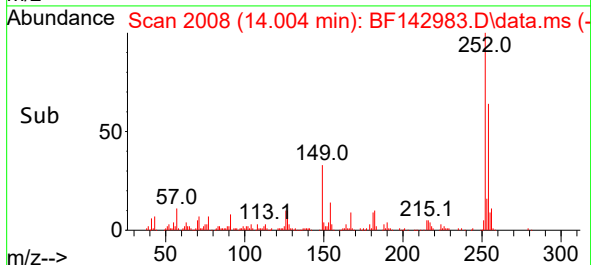
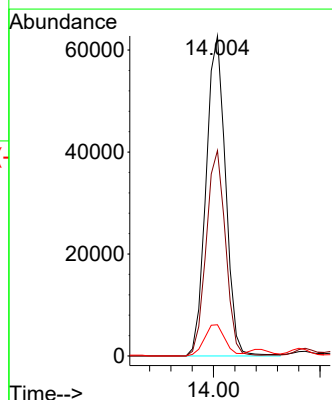
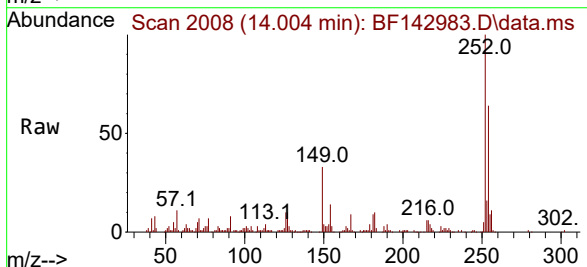
Tgt Ion:252 Resp: 79753

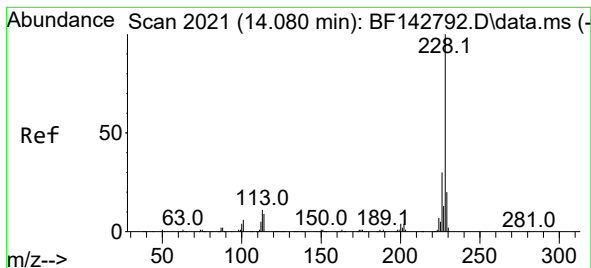
Ion Ratio Lower Upper

252 100

254 64.2 51.7 77.5

126 9.7 9.4 14.2





#83

Chrysene

Concen: 60.633 ng

RT: 14.080 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

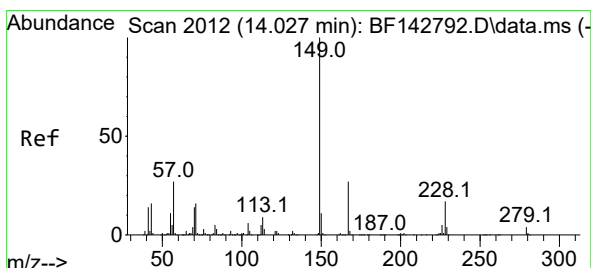
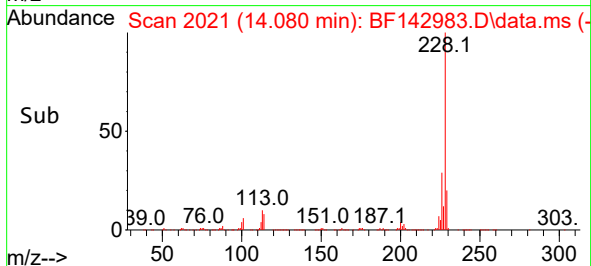
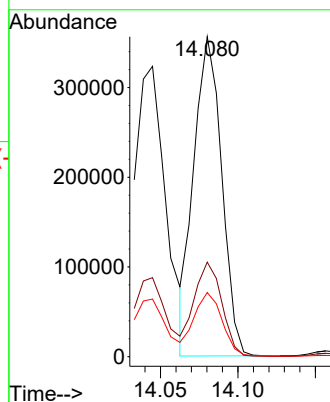
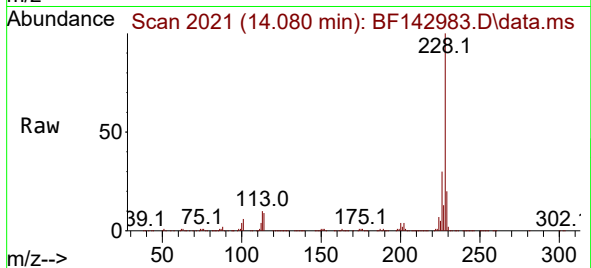
Tgt Ion:228 Resp: 444298

Ion Ratio Lower Upper

228 100

226 29.5 23.7 35.5

229 20.1 15.7 23.5



#84

Bis(2-ethylhexyl)phthalate

Concen: 47.746 ng

RT: 14.021 min Scan# 2011

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

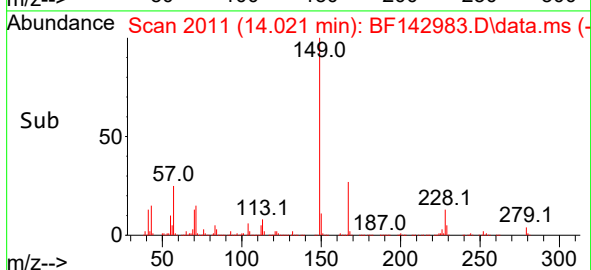
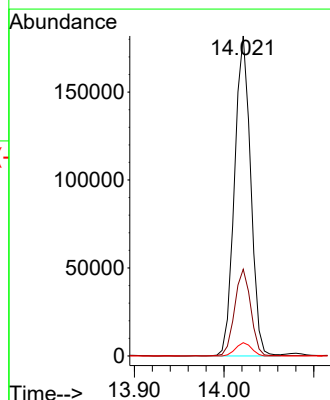
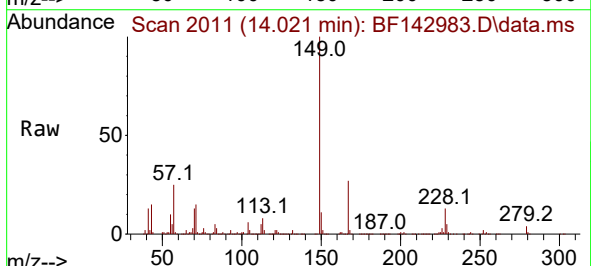
Tgt Ion:149 Resp: 227369

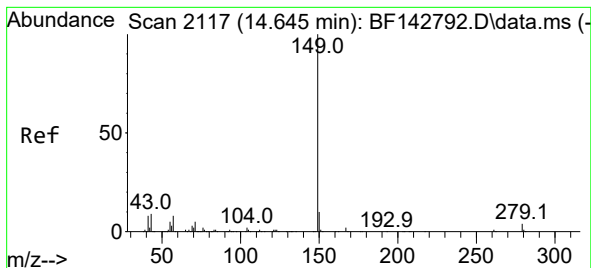
Ion Ratio Lower Upper

149 100

167 27.1 21.4 32.0

279 4.2 3.0 4.6





#85

Di-n-octyl phthalate

Concen: 43.308 ng

RT: 14.633 min Scan# 2115

Delta R.T. -0.012 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

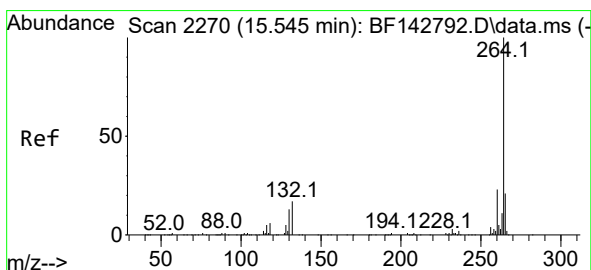
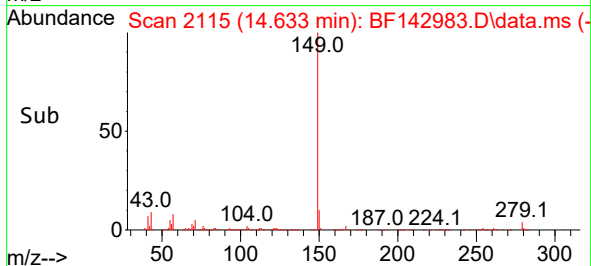
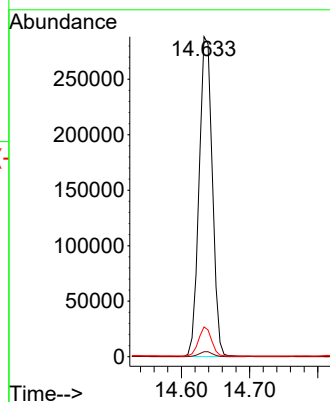
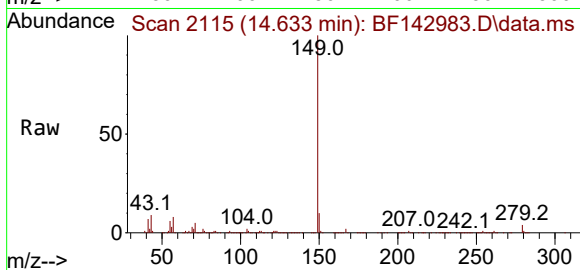
Tgt Ion:149 Resp: 388886

Ion Ratio Lower Upper

149 100

167 1.7 1.3 1.9

43 9.0 7.6 11.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.545 min Scan# 2270

Delta R.T. 0.000 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

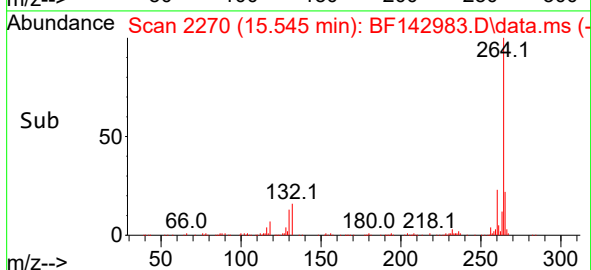
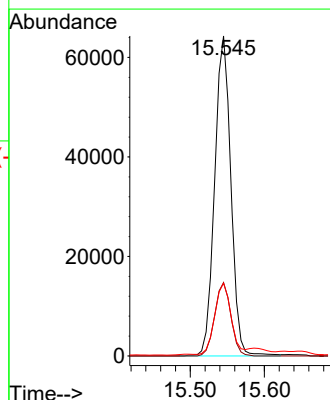
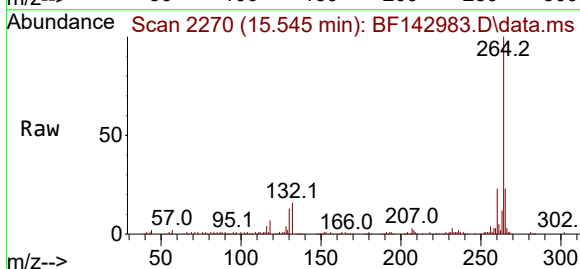
Tgt Ion:264 Resp: 97715

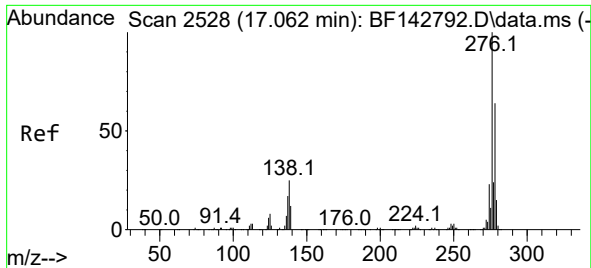
Ion Ratio Lower Upper

264 100

260 22.9 18.1 27.1

265 22.7 16.6 25.0

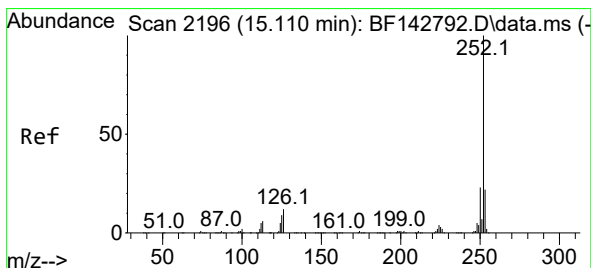
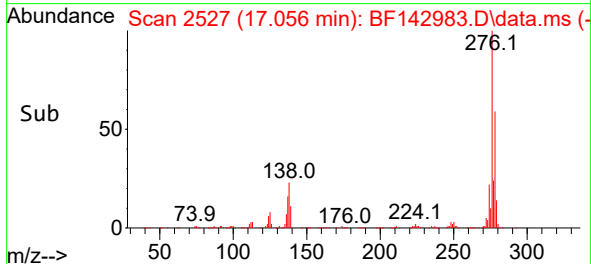
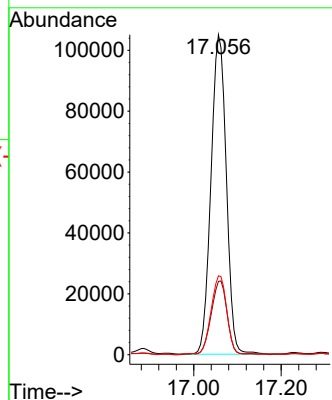
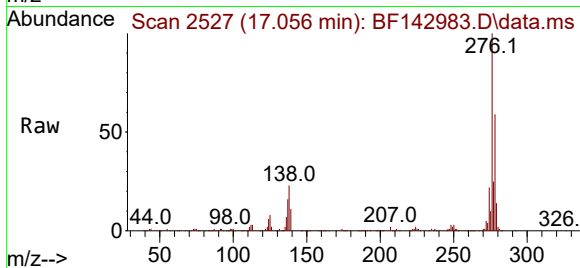




#87
Indeno(1,2,3-cd)pyrene
Concen: 34.355 ng
RT: 17.056 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

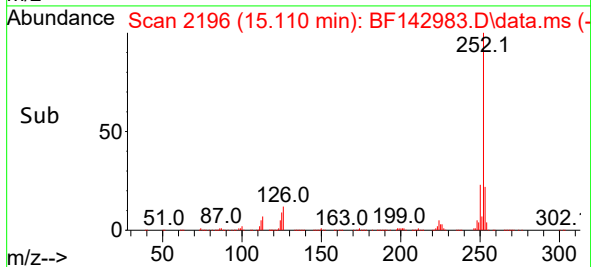
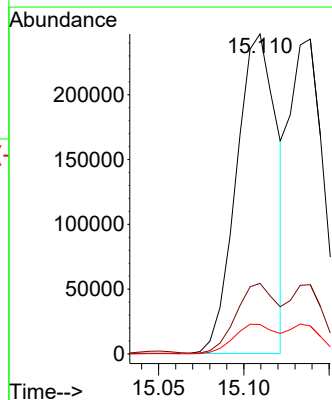
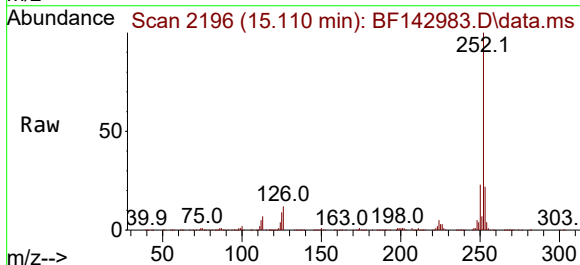
Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

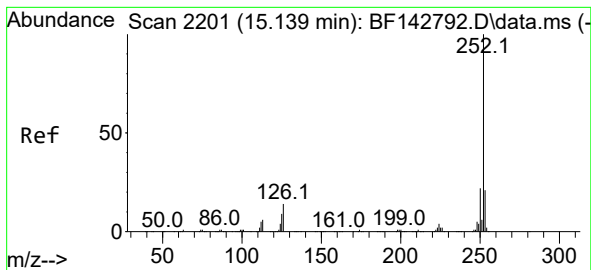
Tgt Ion:276 Resp: 255696
Ion Ratio Lower Upper
276 100
138 24.0 20.2 30.4
277 25.8 19.8 29.6



#88
Benzo(b)fluoranthene
Concen: 72.061 ng
RT: 15.110 min Scan# 2196
Delta R.T. 0.000 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:252 Resp: 407451
Ion Ratio Lower Upper
252 100
253 22.0 17.5 26.3
125 9.2 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 62.435 ng

RT: 15.139 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

Instrument :

BNA_F

ClientSampleId :

SOIL-PILEMSD

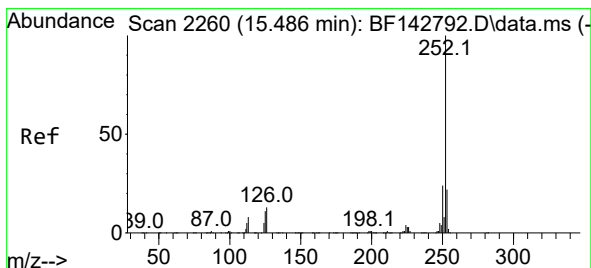
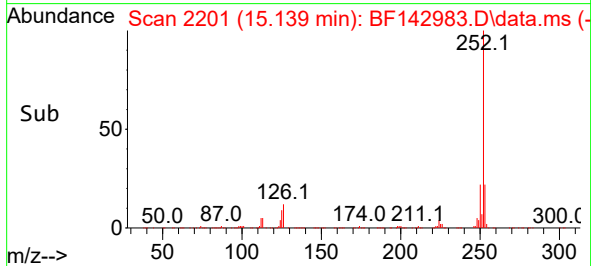
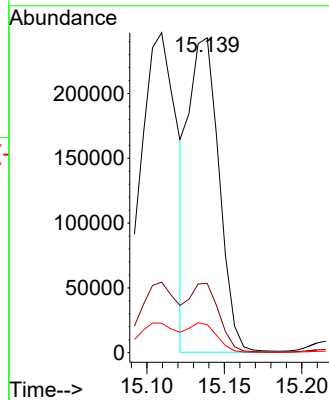
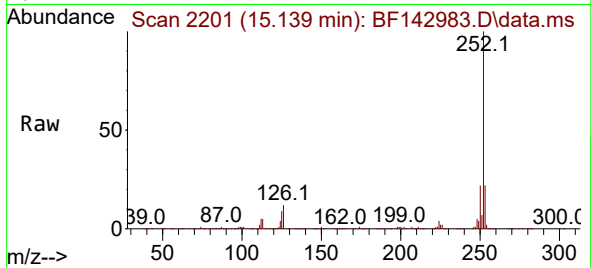
Tgt Ion:252 Resp: 330281

Ion Ratio Lower Upper

252 100

253 22.0 17.2 25.8

125 8.9 7.4 11.2



#90

Benzo(a)pyrene

Concen: 56.496 ng

RT: 15.480 min Scan# 2259

Delta R.T. -0.006 min

Lab File: BF142983.D

Acq: 02 Jul 2025 21:22

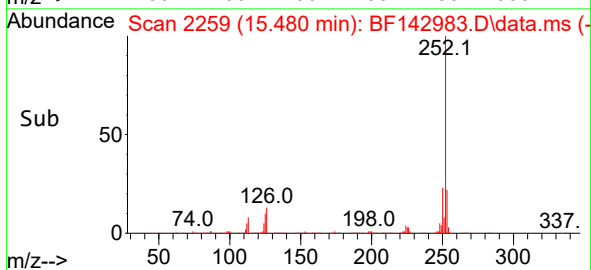
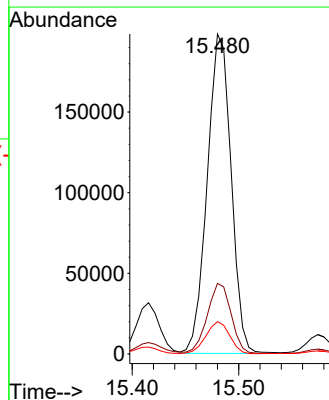
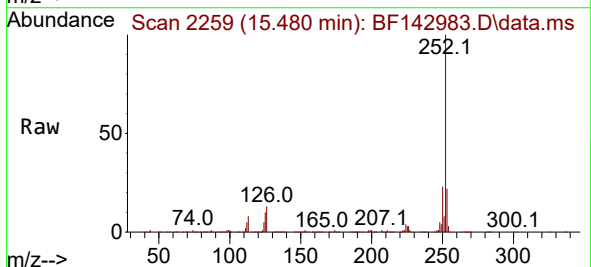
Tgt Ion:252 Resp: 308603

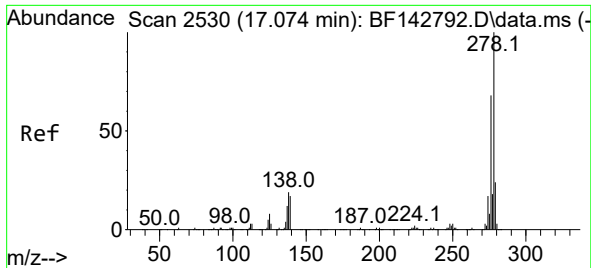
Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 10.1 8.6 12.8

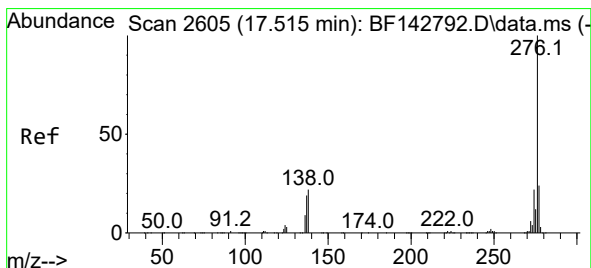
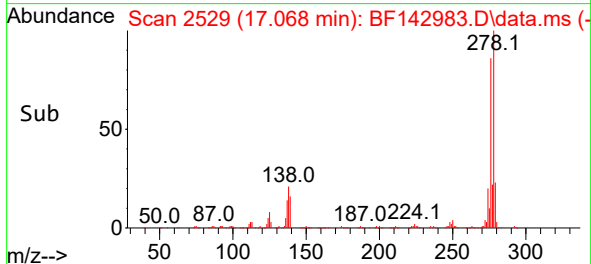
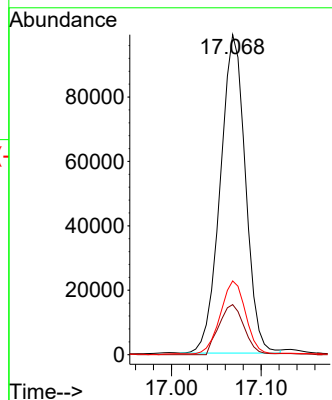
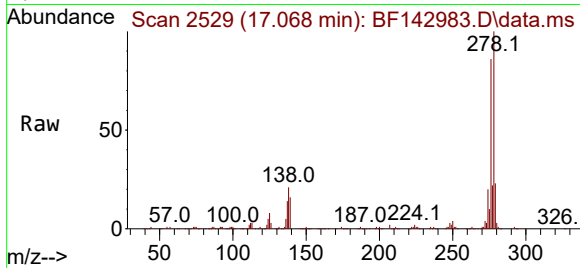




#91
Dibenzo(a,h)anthracene
Concen: 31.835 ng
RT: 17.068 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Instrument :
BNA_F
ClientSampleId :
SOIL-PILEMSD

Tgt Ion:278 Resp: 192523
Ion Ratio Lower Upper
278 100
139 15.6 13.5 20.3
279 23.0 18.8 28.2



#92
Benzo(g,h,i)perylene
Concen: 32.548 ng
RT: 17.515 min Scan# 2605
Delta R.T. 0.000 min
Lab File: BF142983.D
Acq: 02 Jul 2025 21:22

Tgt Ion:276 Resp: 196272
Ion Ratio Lower Upper
276 100
277 23.5 18.8 28.2
138 20.9 17.6 26.4

