

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091125\
 Data File : BF143713.D
 Acq On : 11 Sep 2025 18:29
 Operator : RC/JU
 Sample : Q3032-02MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-1MSD

Quant Time: Sep 11 19:01:48 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 09 15:20:16 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	37951	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	143541	20.000	ng	0.00
39) Acenaphthene-d10	9.934	164	73691	20.000	ng	0.00
64) Phenanthrene-d10	11.422	188	101346	20.000	ng	0.01
76) Chrysene-d12	14.063	240	96866	20.000	ng	0.02
86) Perylene-d12	15.539	264	76435	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.522	112	288557	129.725	ng	0.02
7) Phenol-d6	6.516	99	335330	123.811	ng	0.01
23) Nitrobenzene-d5	7.457	82	225017	97.507	ng	0.00
42) 2,4,6-Tribromophenol	10.722	330	98841	133.094	ng	0.01
45) 2-Fluorobiphenyl	9.251	172	490757	100.602	ng	0.00
79) Terphenyl-d14	13.010	244	430205	71.971	ng	0.02
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.834	88	40143	40.457	ng	# 88
3) Pyridine	3.546	79	93700	36.557	ng	99
4) n-Nitrosodimethylamine	3.487	42	47123	48.399	ng	97
6) Aniline	6.557	93	70461	19.642	ng	96
8) 2-Chlorophenol	6.681	128	112460	46.812	ng	95
9) Benzaldehyde	6.446	77	48414	22.155	ng	98
10) Phenol	6.534	94	130197	43.488	ng	99
11) bis(2-Chloroethyl)ether	6.628	93	110570	49.450	ng	99
12) 1,3-Dichlorobenzene	6.834	146	128589	46.801	ng	99
13) 1,4-Dichlorobenzene	6.910	146	131824	47.535	ng	100
14) 1,2-Dichlorobenzene	7.063	146	124960	47.716	ng	99
15) Benzyl Alcohol	7.034	79	98858	50.179	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.169	45	130401	44.576	ng	97
17) 2-Methylphenol	7.140	107	90924	47.048	ng	99
18) Hexachloroethane	7.410	117	40739	45.476	ng	98
19) n-Nitroso-di-n-propyla...	7.304	70	79541	47.818	ng	98
20) 3+4-Methylphenols	7.293	107	118188	46.441	ng	90
22) Acetophenone	7.304	105	176090	54.317	ng	98
24) Nitrobenzene	7.475	77	111717	46.688	ng	96
25) Isophorone	7.710	82	212014	47.911	ng	100
26) 2-Nitrophenol	7.787	139	61387	52.178	ng	97
27) 2,4-Dimethylphenol	7.822	122	106879	50.604	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	128683	47.320	ng	98
29) 2,4-Dichlorophenol	8.028	162	99761	46.956	ng	98
30) 1,2,4-Trichlorobenzene	8.116	180	107738	48.948	ng	99
31) Naphthalene	8.198	128	331188	46.608	ng	99
32) Benzoic acid	7.922	122	69432	53.884	ng	99
33) 4-Chloroaniline	8.240	127	29895	12.085	ng	99
34) Hexachlorobutadiene	8.316	225	65154	45.383	ng	99
35) Caprolactam	8.610	113	25590	45.255	ng	94
36) 4-Chloro-3-methylphenol	8.716	107	99959	47.717	ng	99
37) 2-Methylnaphthalene	8.887	142	204062	41.952	ng	100
38) 1-Methylnaphthalene	8.987	142	207897	44.536	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	118470	56.156	ng	99
41) Hexachlorocyclopentadiene	9.040	237	72694	67.117	ng	99
43) 2,4,6-Trichlorophenol	9.163	196	72026	51.129	ng	99

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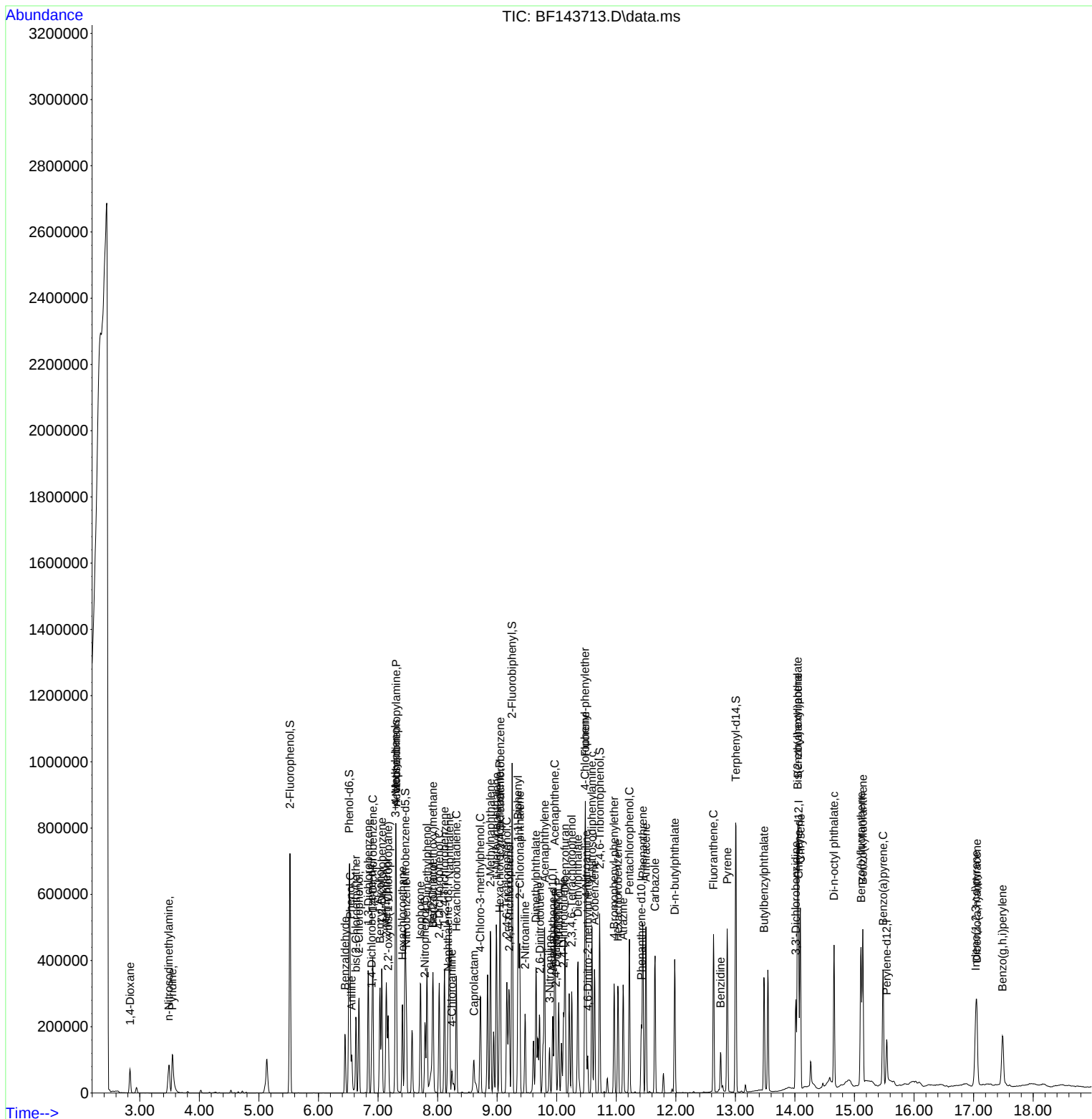
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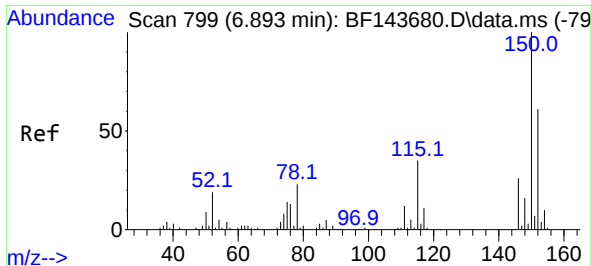
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	72970	50.953	ng	98
46) 1,1'-Biphenyl	9.351	154	308807	58.209	ng	99
47) 2-Chloronaphthalene	9.381	162	208993	50.250	ng	99
48) 2-Nitroaniline	9.469	65	59341	53.915	ng	99
49) Acenaphthylene	9.798	152	337775	56.697	ng	100
50) Dimethylphthalate	9.651	163	249269	51.990	ng	100
51) 2,6-Dinitrotoluene	9.716	165	50318	54.890	ng	95
52) Acenaphthene	9.969	154	204592	49.836	ng	99
53) 3-Nitroaniline	9.881	138	31187	31.613	ng	99
54) 2,4-Dinitrophenol	9.986	184	33293	68.382	ng	# 54
55) Dibenzofuran	10.139	168	282460	47.849	ng	99
56) 4-Nitrophenol	10.034	139	69470	88.513	ng	99
57) 2,4-Dinitrotoluene	10.116	165	65006	52.103	ng	96
58) Fluorene	10.481	166	223335	48.331	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	57858	49.825	ng	98
60) Diethylphthalate	10.357	149	226244	50.262	ng	99
61) 4-Chlorophenyl-phenyle...	10.475	204	110187	47.017	ng	98
62) 4-Nitroaniline	10.492	138	41481	44.395	ng	99
63) Azobenzene	10.634	77	189359	47.585	ng	98
65) 4,6-Dinitro-2-methylph...	10.522	198	23446	45.439	ng	99
66) n-Nitrosodiphenylamine	10.592	169	186811	56.267	ng	100
67) 4-Bromophenyl-phenylether	10.963	248	63856	52.249	ng	97
68) Hexachlorobenzene	11.028	284	67038	51.949	ng	96
69) Atrazine	11.116	200	58081	55.794	ng	99
70) Pentachlorophenol	11.222	266	81503	104.480	ng	99
71) Phenanthrene	11.445	178	280568	50.245	ng	100
72) Anthracene	11.498	178	282252	50.270	ng	100
73) Carbazole	11.651	167	241372	52.491	ng	99
74) Di-n-butylphthalate	11.980	149	302001	54.552	ng	99
75) Fluoranthene	12.633	202	272585	53.175	ng	98
77) Benzidine	12.751	184	69418	21.976	ng	99
78) Pyrene	12.863	202	286873	37.041	ng	99
80) Butylbenzylphthalate	13.480	149	116057	47.827	ng	97
81) Benzo(a)anthracene	14.051	228	318835	51.163	ng	99
82) 3,3'-Dichlorobenzidine	14.016	252	82485	43.024	ng	98
83) Chrysene	14.092	228	269392	47.200	ng	99
84) Bis(2-ethylhexyl)phtha...	14.045	149	162515	46.938	ng	98
85) Di-n-octyl phthalate	14.657	149	294275	47.430	ng	# 99
87) Indeno(1,2,3-cd)pyrene	17.033	276	177255	33.979	ng	99
88) Benzo(b)fluoranthene	15.110	252	267193	58.723	ng	100
89) Benzo(k)fluoranthene	15.139	252	264281	64.358	ng	99
90) Benzo(a)pyrene	15.480	252	221667	55.454	ng	100
91) Dibenzo(a,h)anthracene	17.057	278	146530	33.857	ng	98
92) Benzo(g,h,i)perylene	17.486	276	136145	33.631	ng	99

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

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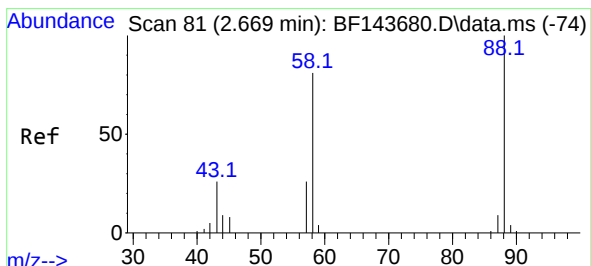
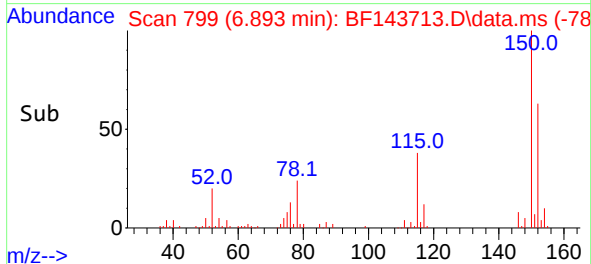
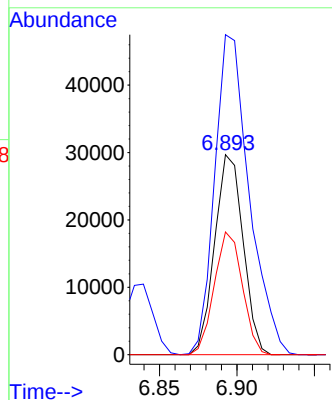
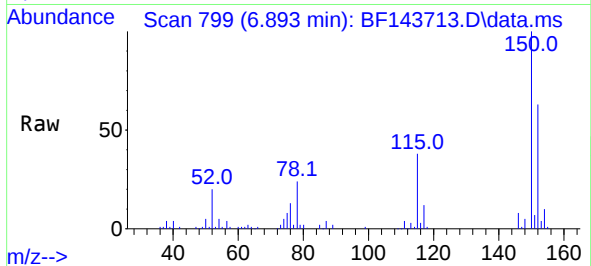




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.893 min Scan# 799
Delta R.T. -0.000 min
Lab File: BF143713.D
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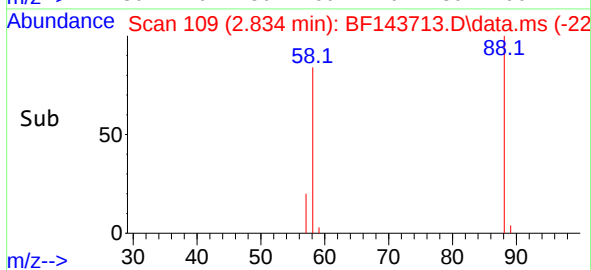
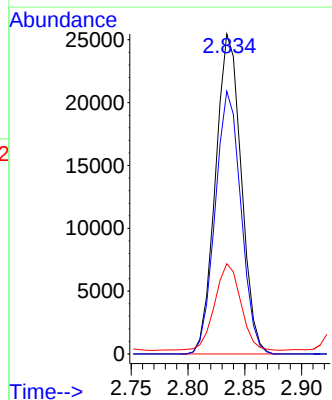
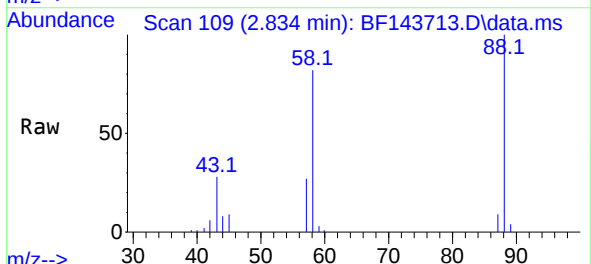
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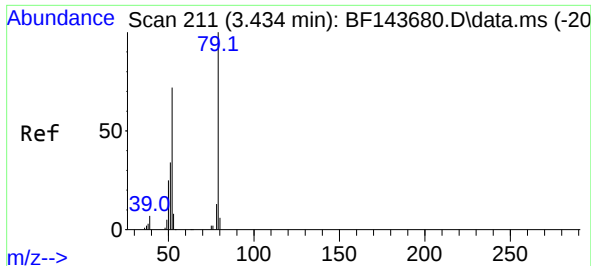
Tgt Ion:152 Resp: 37951
Ion Ratio Lower Upper
152 100
150 160.0 130.7 196.1
115 61.4 45.9 68.9



#2
1,4-Dioxane
Concen: 40.457 ng
RT: 2.834 min Scan# 109
Delta R.T. 0.165 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion: 88 Resp: 40143
Ion Ratio Lower Upper
88 100
58 82.1 65.8 98.6
43 0.0 20.6 31.0#

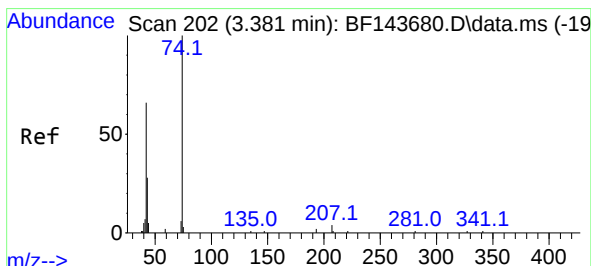
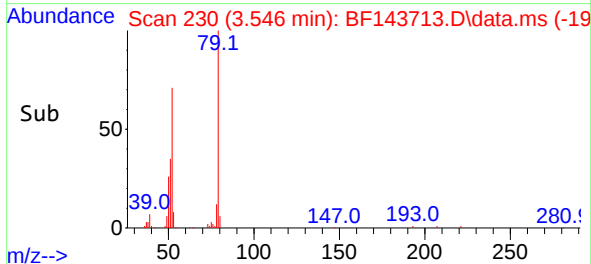
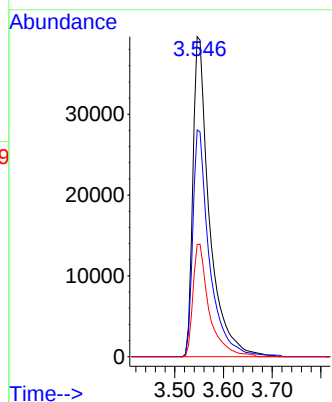
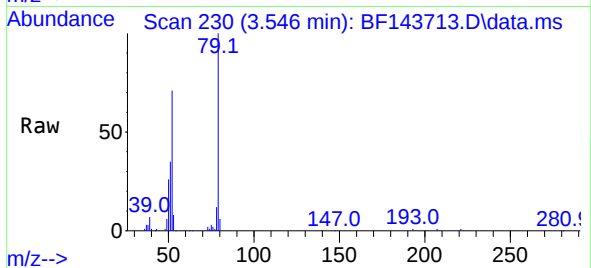




#3
Pyridine
Concen: 36.557 ng
RT: 3.546 min Scan# 211
Delta R.T. 0.112 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

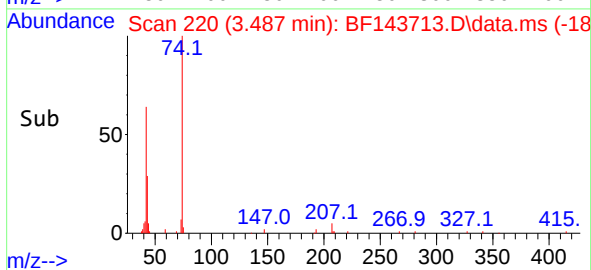
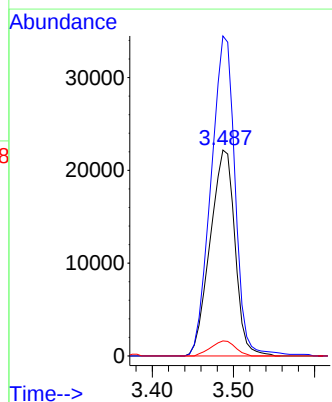
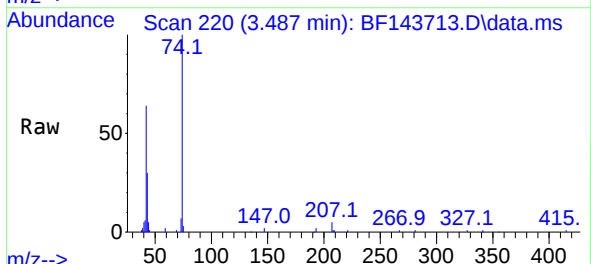
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BNA_F
ClientSampleId :
SOIL-PILE-1MSD

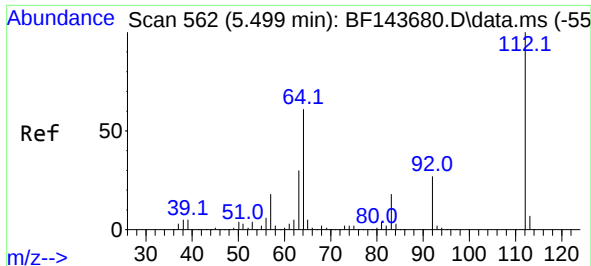
Tgt Ion: 79 Resp: 93700
Ion Ratio Lower Upper
79 100
52 70.9 57.2 85.8
51 35.0 27.0 40.6



#4
n-Nitrosodimethylamine
Concen: 48.399 ng
RT: 3.487 min Scan# 220
Delta R.T. 0.106 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion: 42 Resp: 47123
Ion Ratio Lower Upper
42 100
74 155.4 120.9 181.3
44 7.3 6.5 9.7

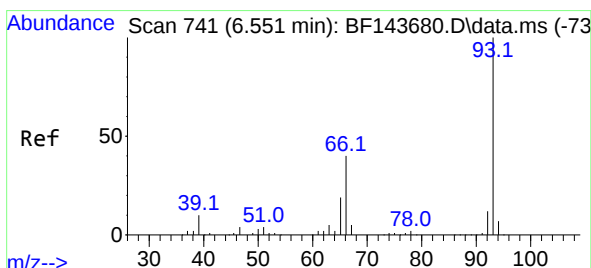
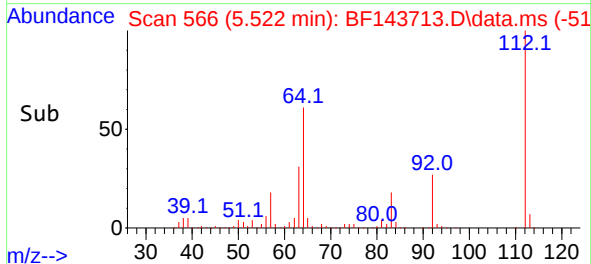
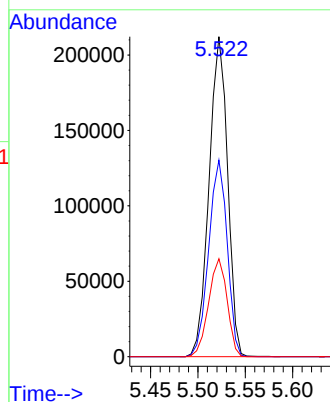
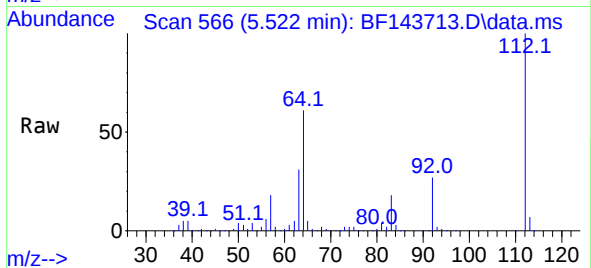




#5
2-Fluorophenol
Concen: 129.725 ng
RT: 5.522 min Scan# 50
Delta R.T. 0.024 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

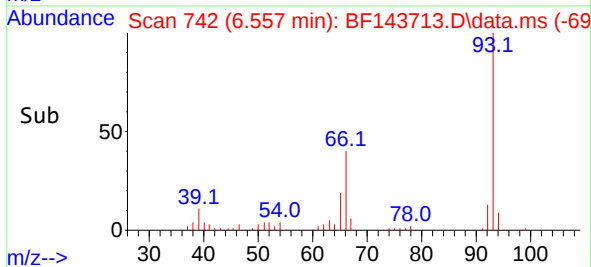
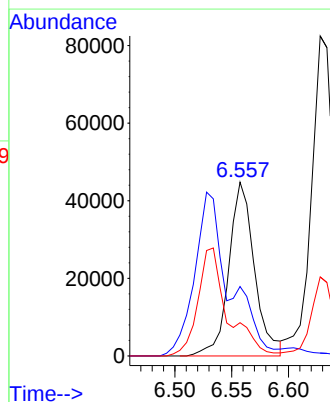
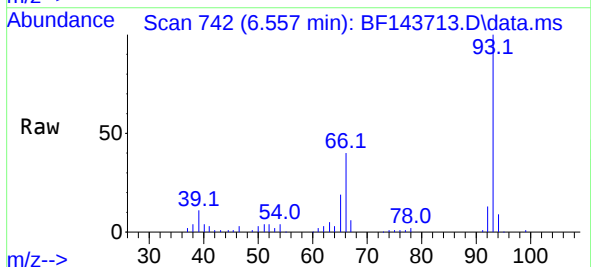
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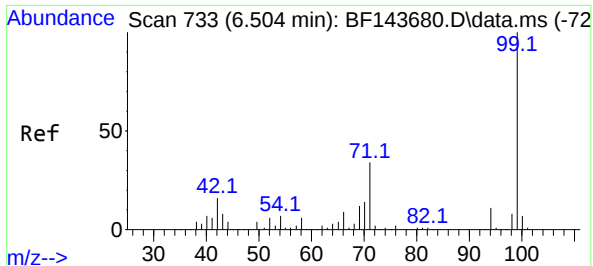
Tgt Ion:112 Resp: 288557
Ion Ratio Lower Upper
112 100
64 61.4 49.0 73.4
63 30.6 24.3 36.5



#6
Aniline
Concen: 19.642 ng
RT: 6.557 min Scan# 742
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion: 93 Resp: 70461
Ion Ratio Lower Upper
93 100
66 39.9 34.1 51.1
65 19.1 16.1 24.1

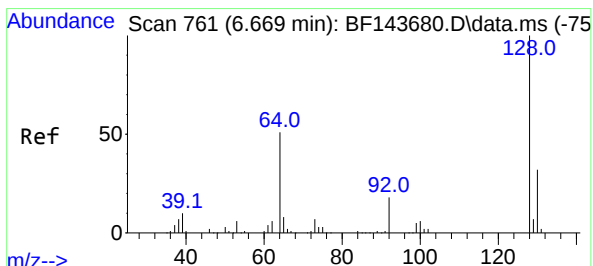
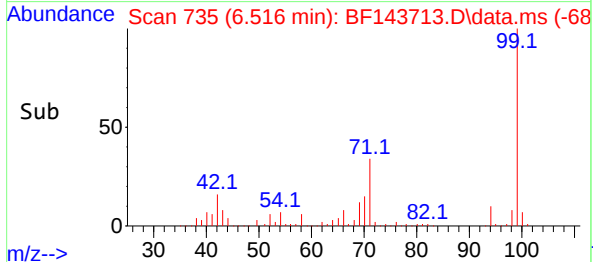
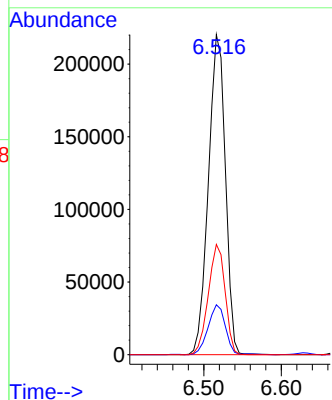
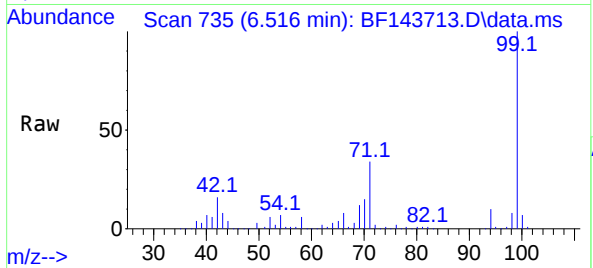




#7
Phenol-d6
Concen: 123.811 ng
RT: 6.516 min Scan# 713
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

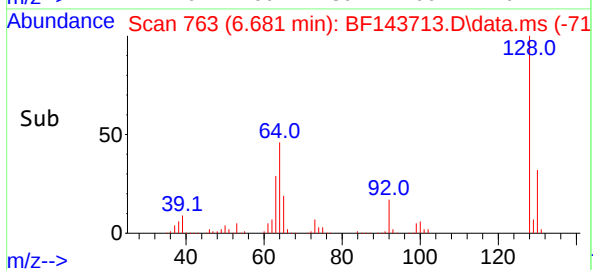
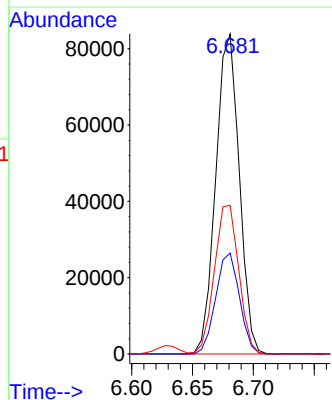
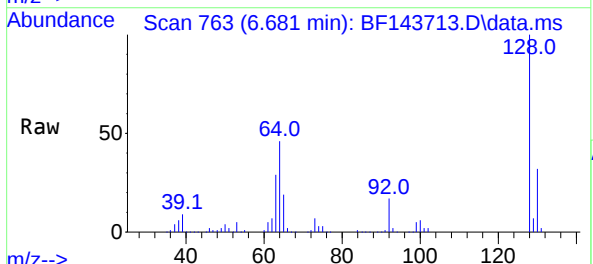
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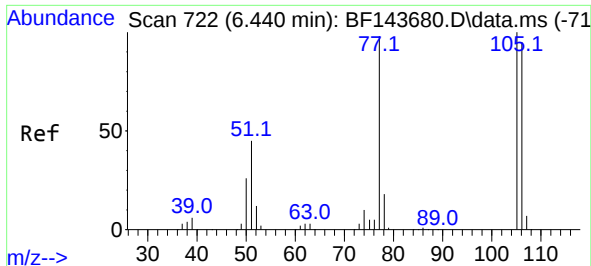
Tgt Ion: 99 Resp: 335330
Ion Ratio Lower Upper
99 100
42 15.6 13.0 19.4
71 34.4 27.4 41.2



#8
2-Chlorophenol
Concen: 46.812 ng
RT: 6.681 min Scan# 763
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:128 Resp: 112460
Ion Ratio Lower Upper
128 100
130 31.6 12.0 52.0
64 46.5 31.9 71.9

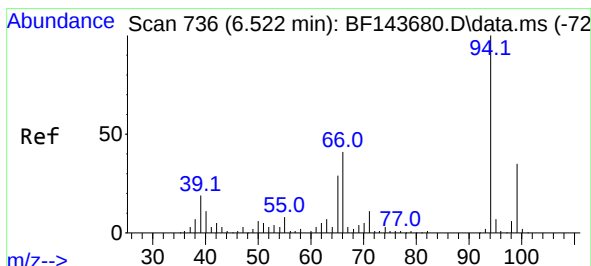
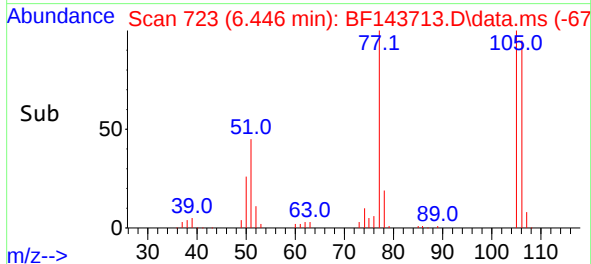
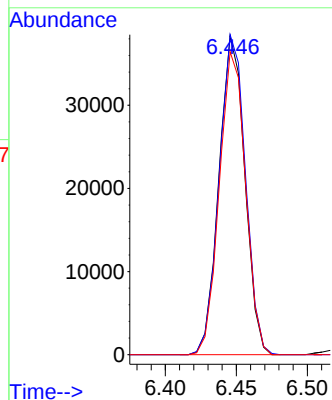
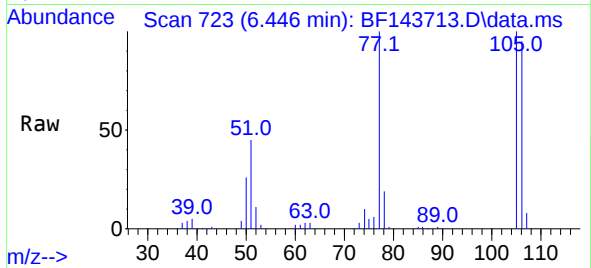




#9
Benzaldehyde
Concen: 22.155 ng
RT: 6.446 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF143713.D
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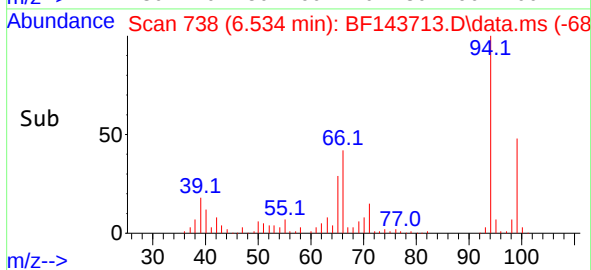
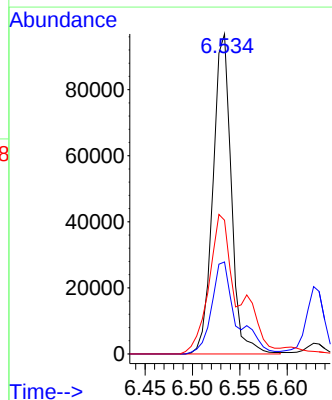
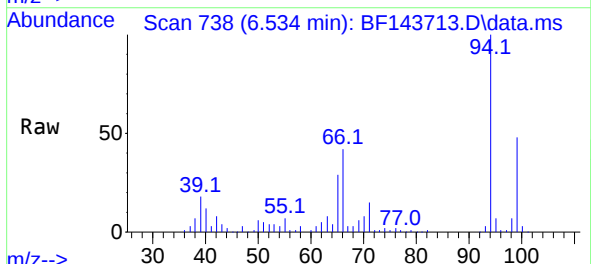
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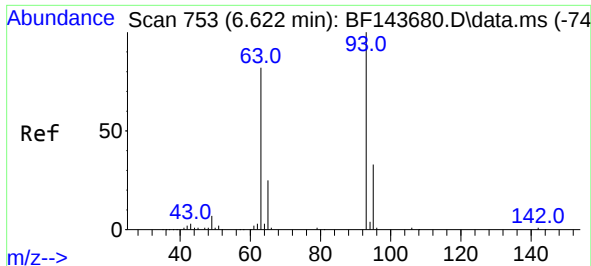
Tgt Ion: 77 Resp: 48414
Ion Ratio Lower Upper
77 100
105 100.4 81.7 121.7
106 95.0 76.9 116.9



#10
Phenol
Concen: 43.488 ng
RT: 6.534 min Scan# 738
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion: 94 Resp: 130197
Ion Ratio Lower Upper
94 100
65 28.7 9.1 49.1
66 41.8 20.8 60.8

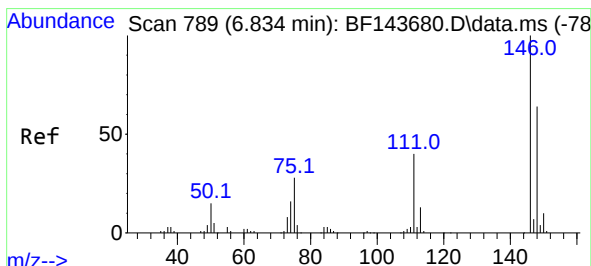
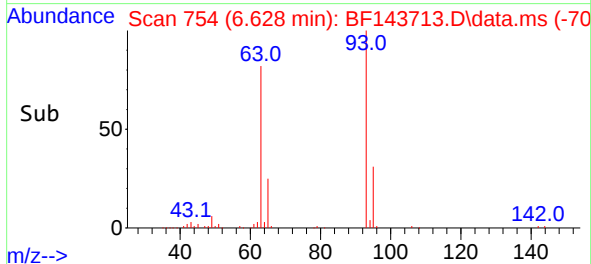
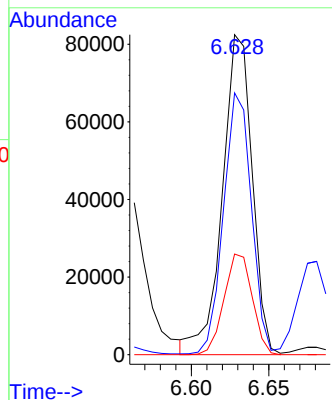
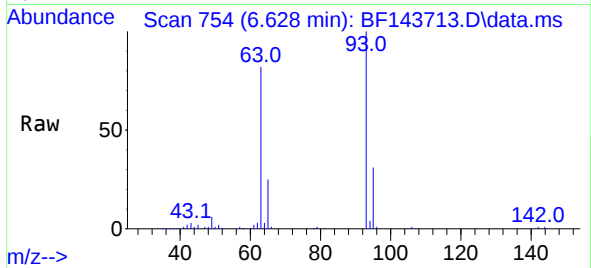




#11
bis(2-Chloroethyl)ether
Concen: 49.450 ng
RT: 6.628 min Scan# 753
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

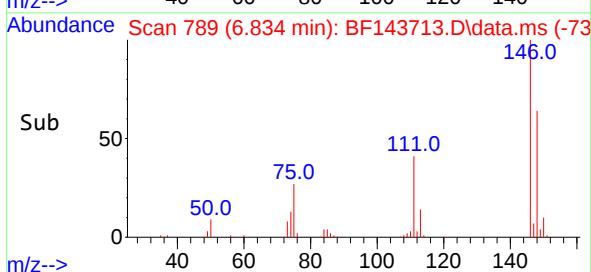
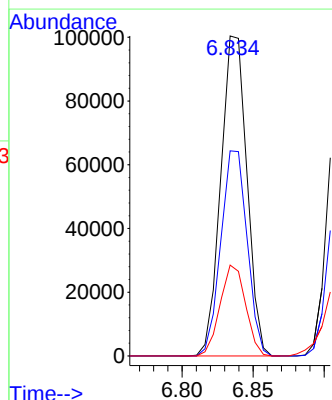
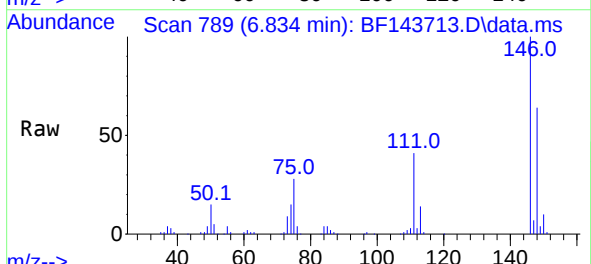
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

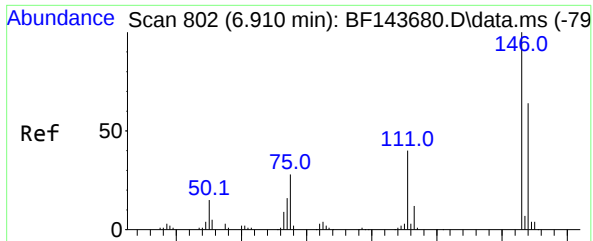
Tgt Ion: 93 Resp: 110570
Ion Ratio Lower Upper
93 100
63 81.8 61.8 101.8
95 31.5 12.6 52.6



#12
1,3-Dichlorobenzene
Concen: 46.801 ng
RT: 6.834 min Scan# 789
Delta R.T. -0.000 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:146 Resp: 128589
Ion Ratio Lower Upper
146 100
148 64.1 51.0 76.4
75 28.4 22.0 33.0

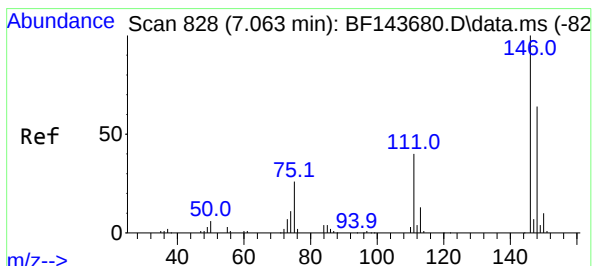
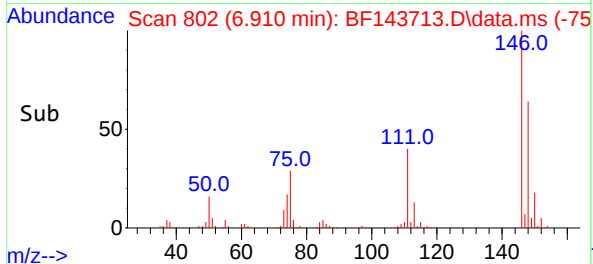
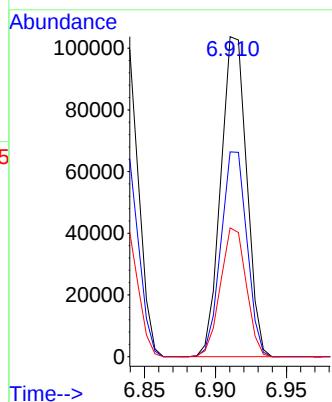
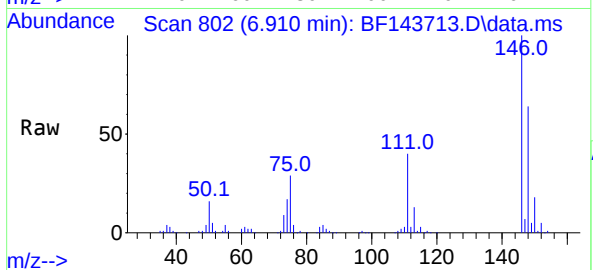




#13
1,4-Dichlorobenzene
Concen: 47.535 ng
RT: 6.910 min Scan# 802
Delta R.T. -0.000 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

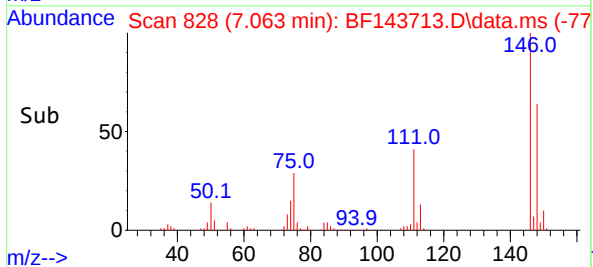
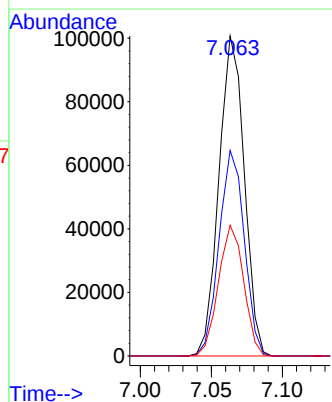
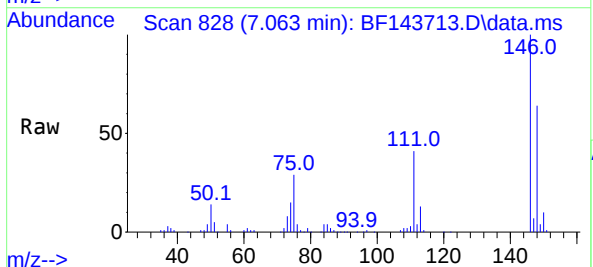
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

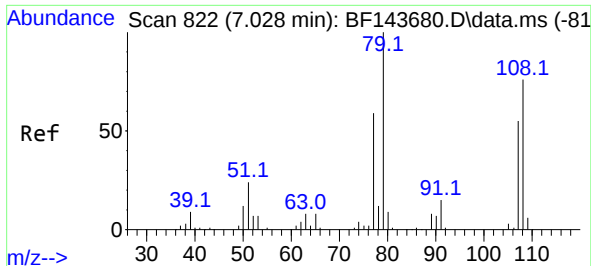
Tgt Ion:146 Resp: 131824
Ion Ratio Lower Upper
146 100
148 64.0 51.2 76.8
111 40.3 31.8 47.8



#14
1,2-Dichlorobenzene
Concen: 47.716 ng
RT: 7.063 min Scan# 828
Delta R.T. -0.000 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:146 Resp: 124960
Ion Ratio Lower Upper
146 100
148 64.2 51.0 76.4
111 40.8 32.3 48.5

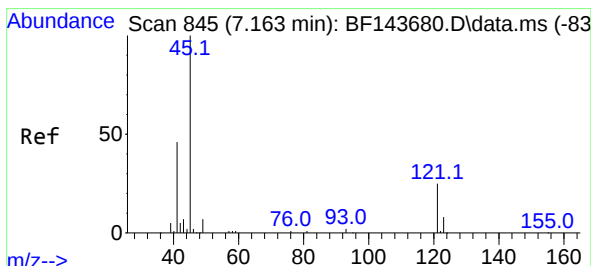
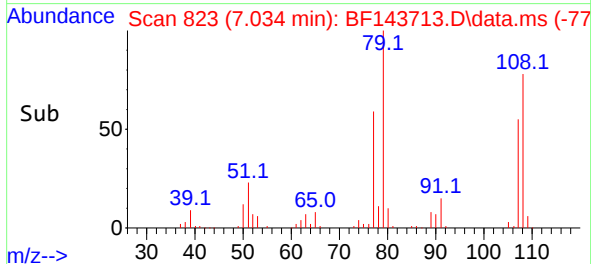
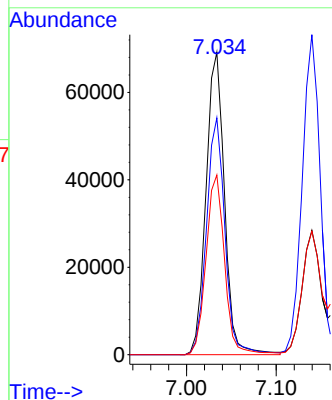
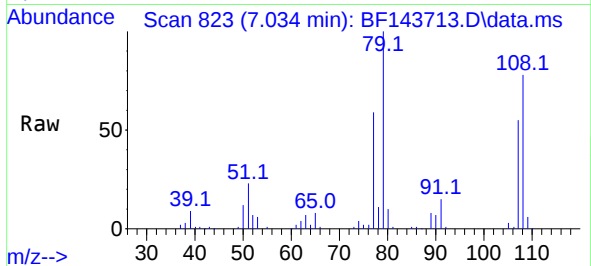




#15
Benzyl Alcohol
Concen: 50.179 ng
RT: 7.034 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

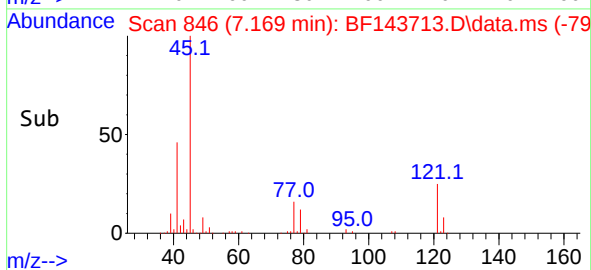
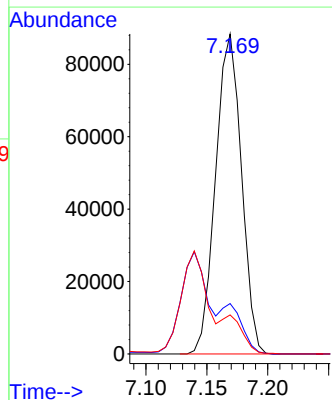
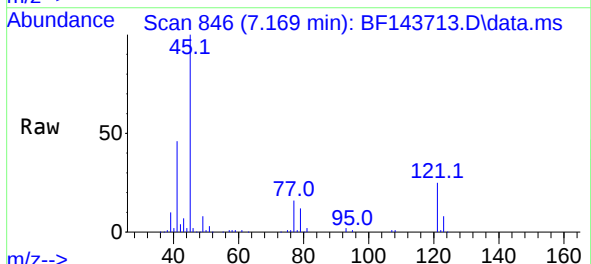
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

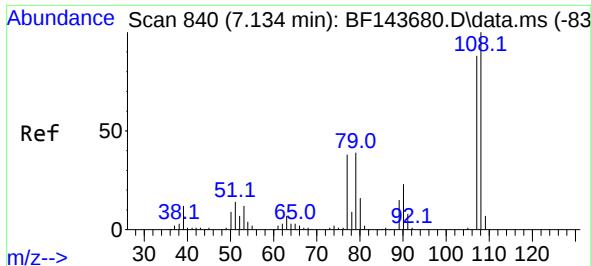
Tgt Ion: 79 Resp: 98858
Ion Ratio Lower Upper
79 100
108 78.3 60.9 91.3
77 59.4 47.4 71.2



#16
2,2'-oxybis(1-Chloropropane)
Concen: 44.576 ng
RT: 7.169 min Scan# 846
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion: 45 Resp: 130401
Ion Ratio Lower Upper
45 100
77 15.8 0.0 34.6
79 12.2 0.0 31.3

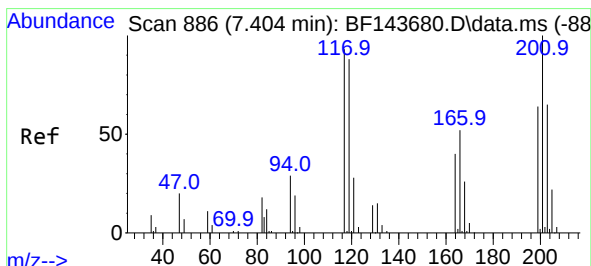
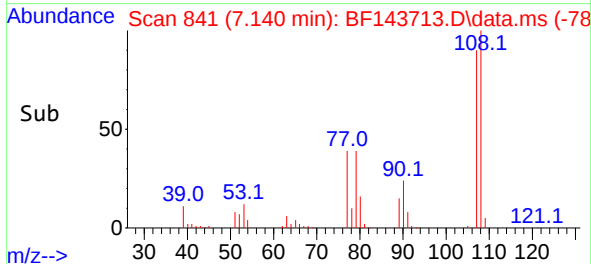
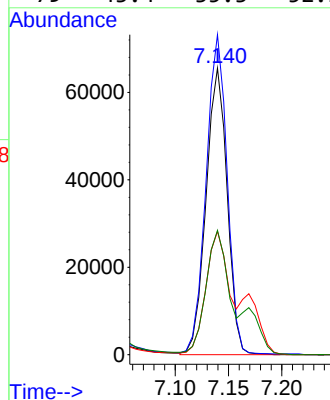
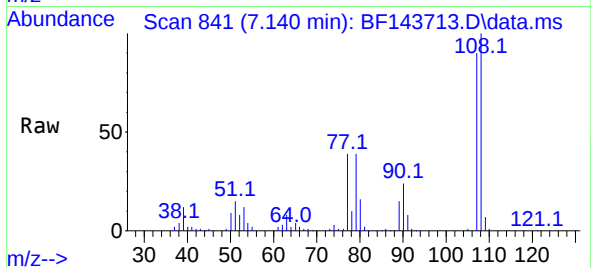




#17
2-Methylphenol
Concen: 47.048 ng
RT: 7.140 min Scan# 841
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

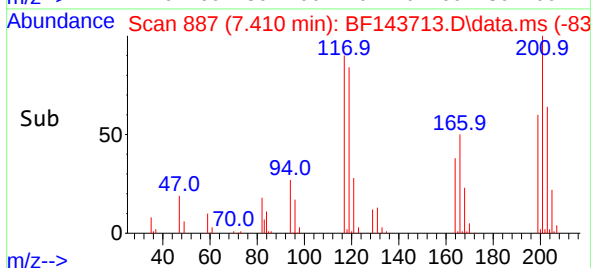
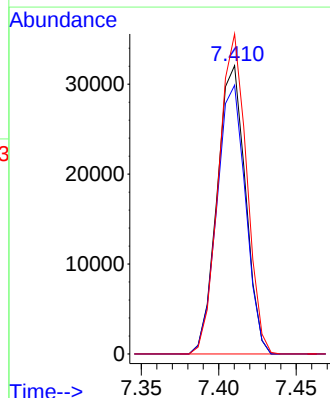
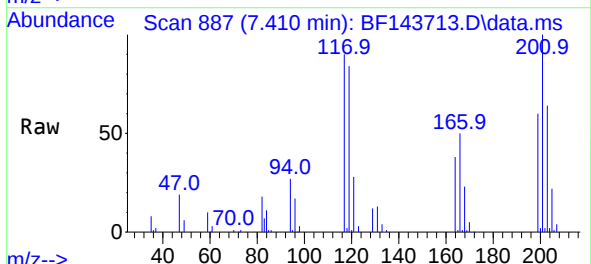
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

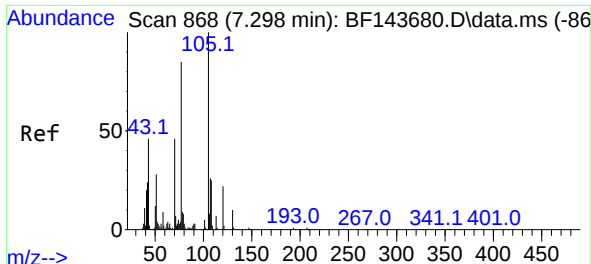
Tgt Ion:	107	Resp:	90924
Ion	Ratio	Lower	Upper
107	100		
108	111.6	90.9	136.3
77	43.1	34.4	51.6
79	43.4	35.3	52.9



#18
Hexachloroethane
Concen: 45.476 ng
RT: 7.410 min Scan# 887
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:	117	Resp:	40739
Ion	Ratio	Lower	Upper
117	100		
119	93.3	76.2	114.2
201	111.0	86.4	129.6

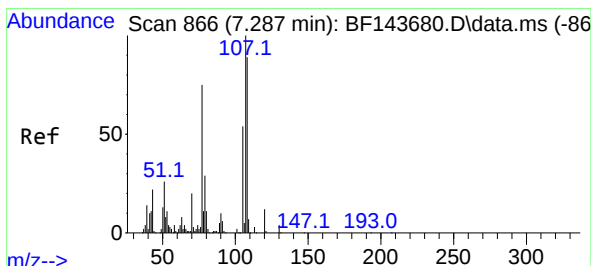
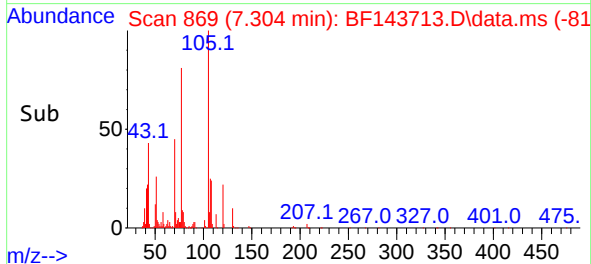
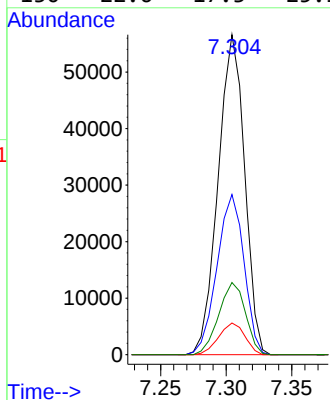
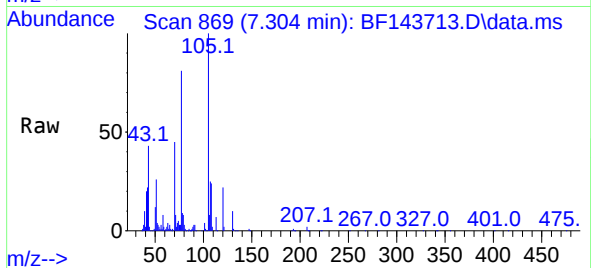




#19
n-Nitroso-di-n-propylamine
Concen: 47.818 ng
RT: 7.304 min Scan# 869
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

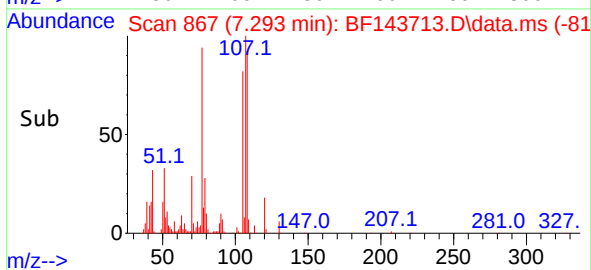
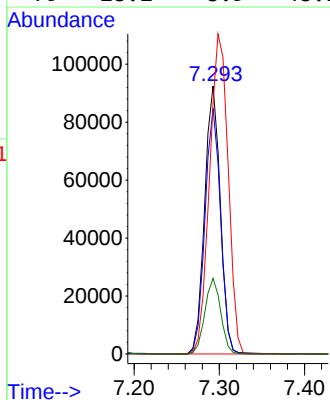
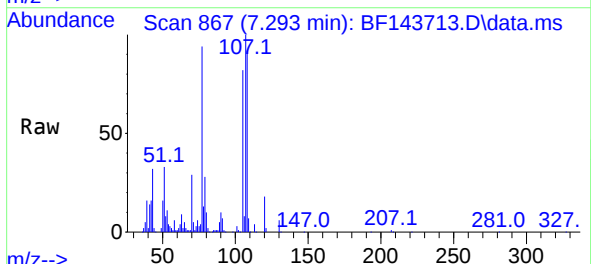
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

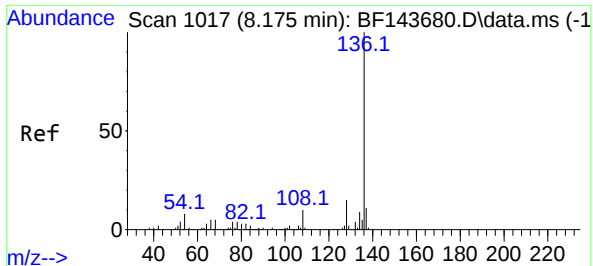
Tgt Ion:	70	Resp:	79541
Ion	Ratio	Lower	Upper
70	100		
42	50.0	41.4	62.2
101	9.9	8.1	12.1
130	22.6	17.3	25.9



#20
3+4-Methylphenols
Concen: 46.441 ng
RT: 7.293 min Scan# 867
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:	107	Resp:	118188
Ion	Ratio	Lower	Upper
107	100		
108	91.6	68.6	108.6
77	93.7	54.6	94.6
79	28.2	8.9	48.9



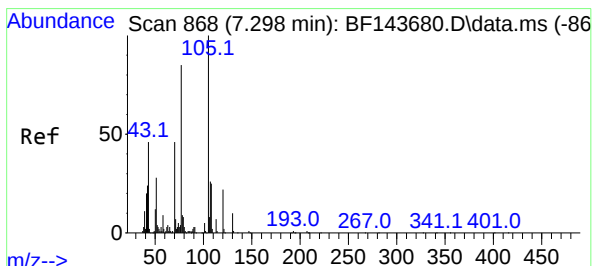
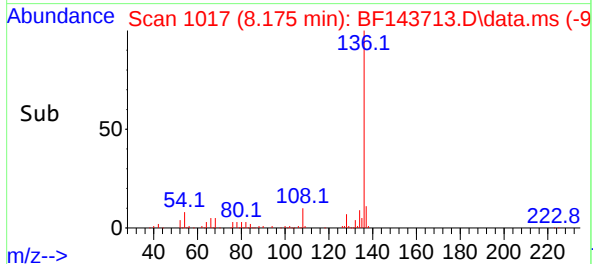
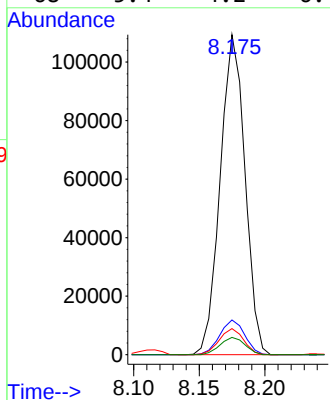
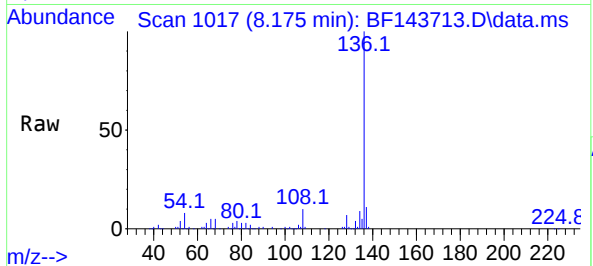


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.175 min Scan# 1017
Delta R.T. -0.000 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

Tgt Ion:136 Resp: 143541

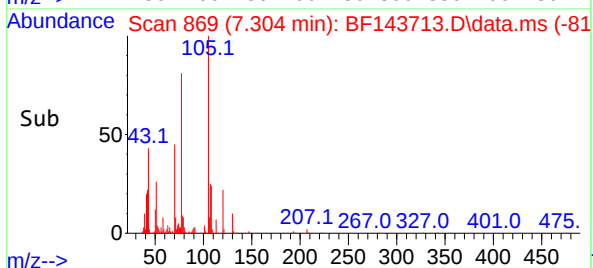
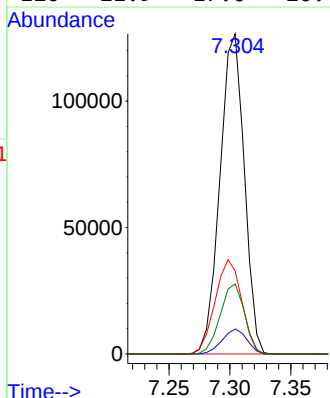
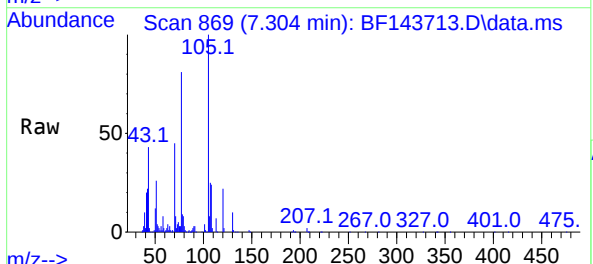
Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	8.1	6.2	9.2
68	5.4	4.2	6.4

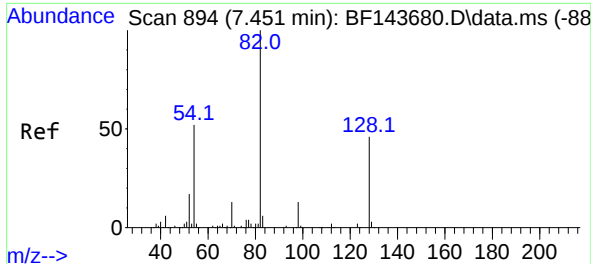


#22
Acetophenone
Concen: 54.317 ng
RT: 7.304 min Scan# 869
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:105 Resp: 176090

Ion	Ratio	Lower	Upper
105	100		
71	7.8	5.9	8.9
51	25.9	22.4	33.6
120	21.9	17.6	26.4

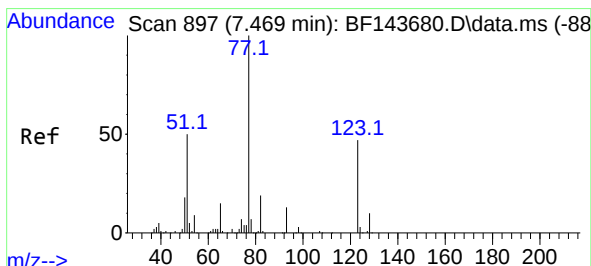
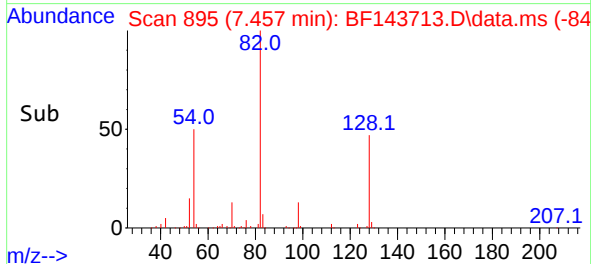
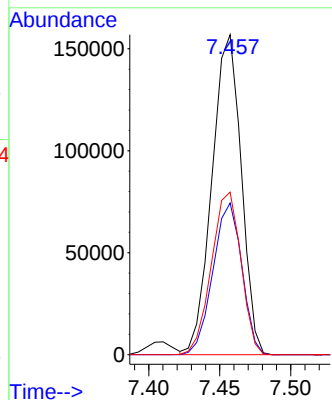
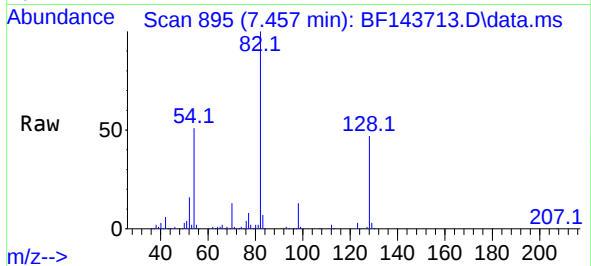




#23
Nitrobenzene-d5
Concen: 97.507 ng
RT: 7.457 min Scan# 895
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

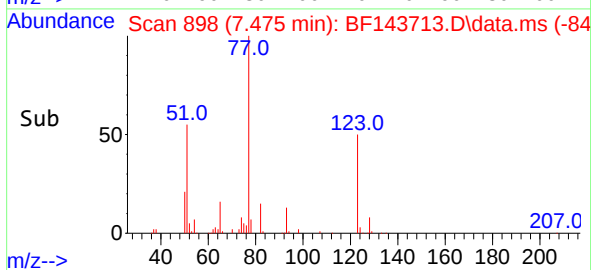
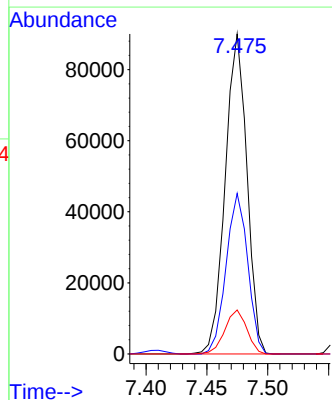
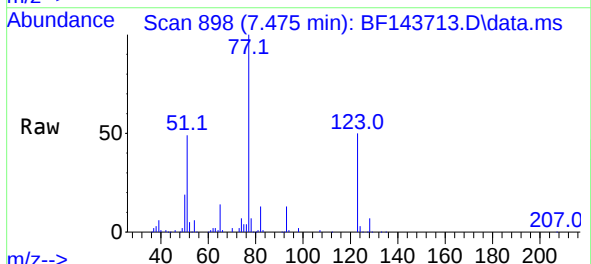
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

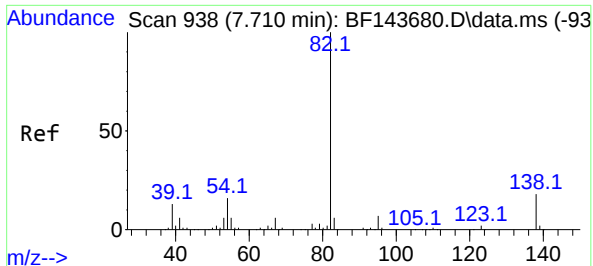
Tgt Ion: 82 Resp: 225017
Ion Ratio Lower Upper
82 100
128 47.4 37.0 55.4
54 50.8 41.8 62.8



#24
Nitrobenzene
Concen: 46.688 ng
RT: 7.475 min Scan# 898
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion: 77 Resp: 111717
Ion Ratio Lower Upper
77 100
123 50.1 37.4 56.0
65 13.8 11.6 17.4

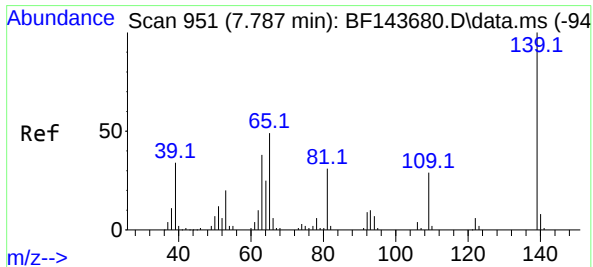
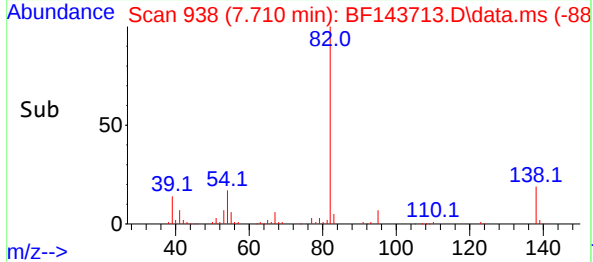
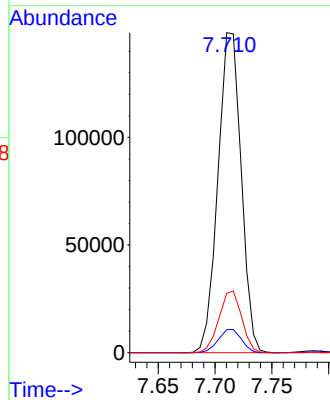
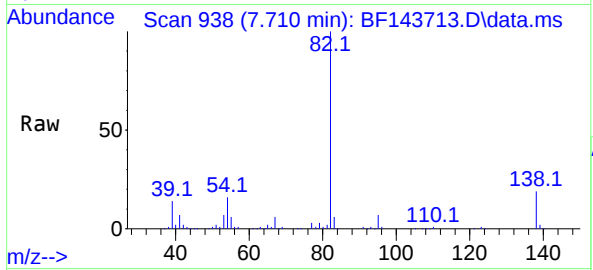




#25
Isophorone
Concen: 47.911 ng
RT: 7.710 min Scan# 911
Delta R.T. -0.000 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

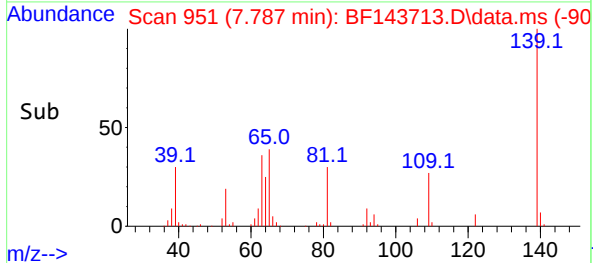
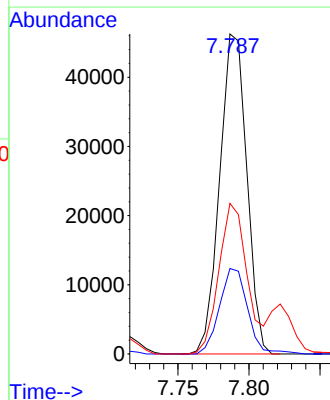
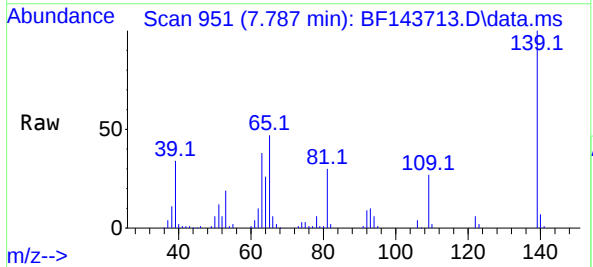
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

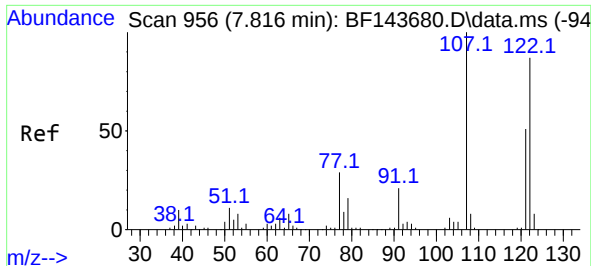
Tgt Ion: 82 Resp: 212014
Ion Ratio Lower Upper
82 100
95 7.2 5.7 8.5
138 18.6 14.8 22.2



#26
2-Nitrophenol
Concen: 52.178 ng
RT: 7.787 min Scan# 951
Delta R.T. -0.000 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:139 Resp: 61387
Ion Ratio Lower Upper
139 100
109 26.7 22.8 34.2
65 47.0 39.2 58.8

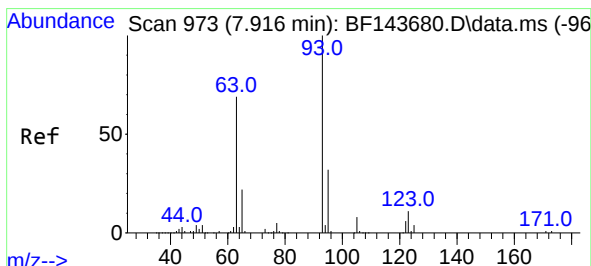
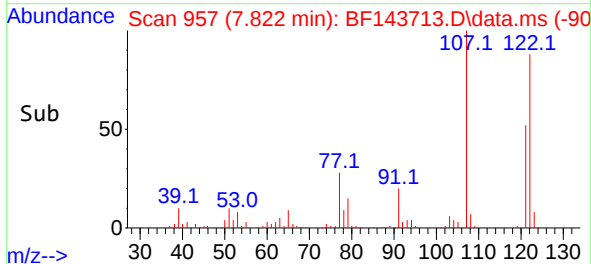
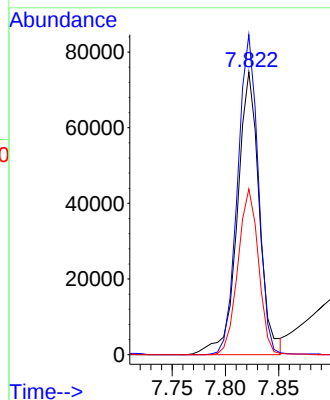
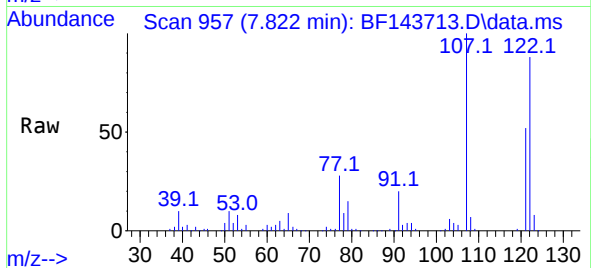




#27
2,4-Dimethylphenol
Concen: 50.604 ng
RT: 7.822 min Scan# 91
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

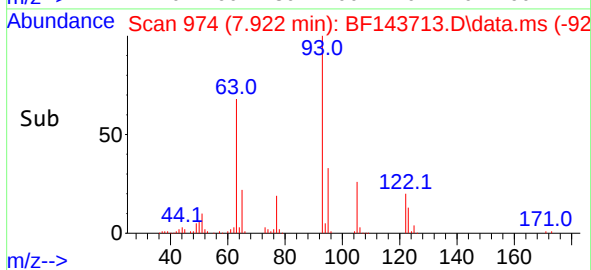
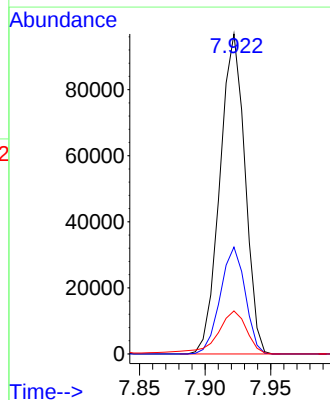
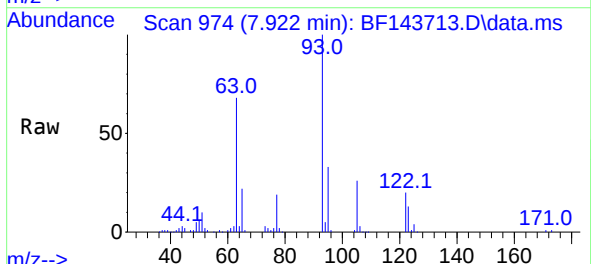
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

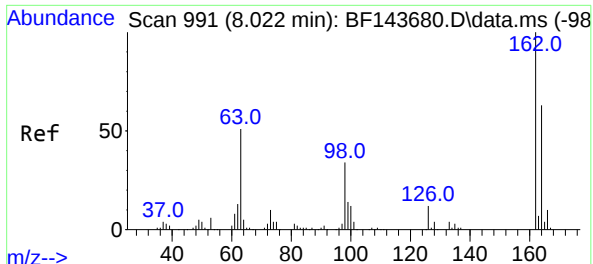
Tgt Ion:122 Resp: 106879
Ion Ratio Lower Upper
122 100
107 113.2 92.1 138.1
121 58.6 46.9 70.3



#28
bis(2-Chloroethoxy)methane
Concen: 47.320 ng
RT: 7.922 min Scan# 974
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion: 93 Resp: 128683
Ion Ratio Lower Upper
93 100
95 33.4 26.0 39.0
123 13.5 9.6 14.4



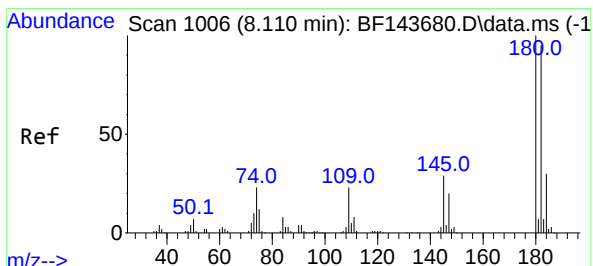
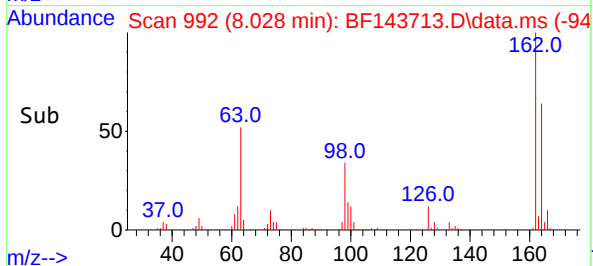
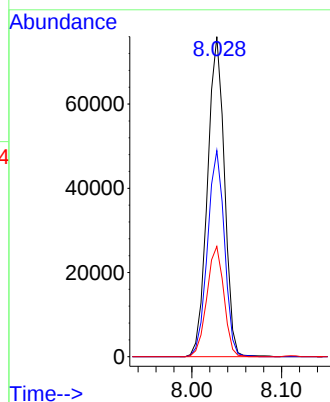
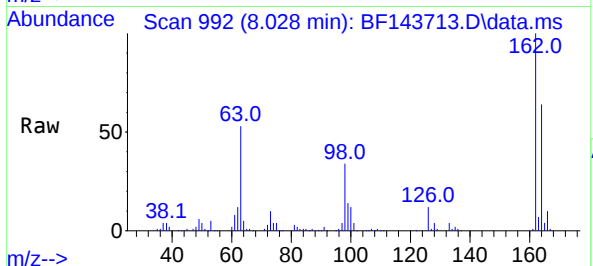


#29
2,4-Dichlorophenol
Concen: 46.956 ng
RT: 8.028 min Scan# 991
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

Tgt Ion:162 Resp: 99761

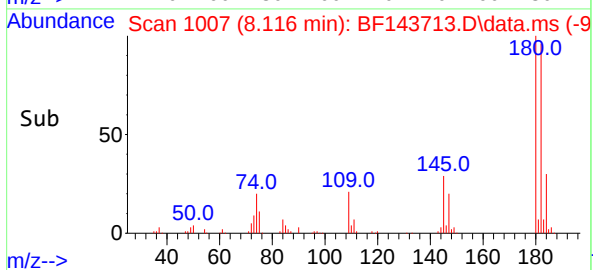
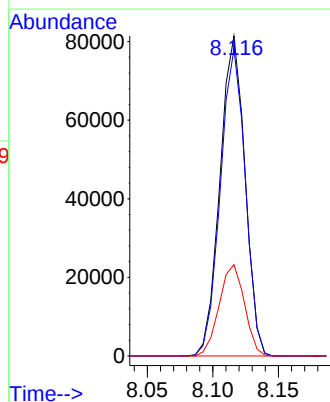
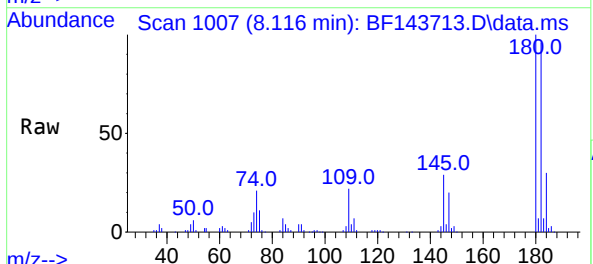
Ion	Ratio	Lower	Upper
162	100		
164	64.4	43.0	83.0
98	34.4	13.8	53.8

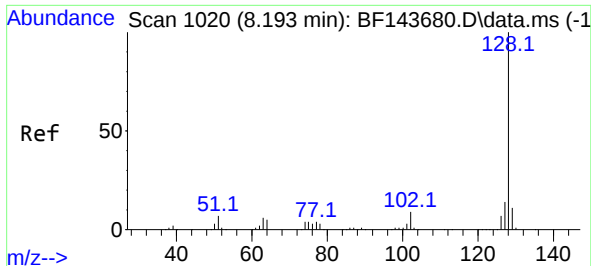


#30
1,2,4-Trichlorobenzene
Concen: 48.948 ng
RT: 8.116 min Scan# 1007
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:180 Resp: 107738

Ion	Ratio	Lower	Upper
180	100		
182	95.9	76.2	114.4
145	28.5	23.2	34.8





#31

Naphthalene

Concen: 46.608 ng

RT: 8.198 min Scan# 1

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1MSD

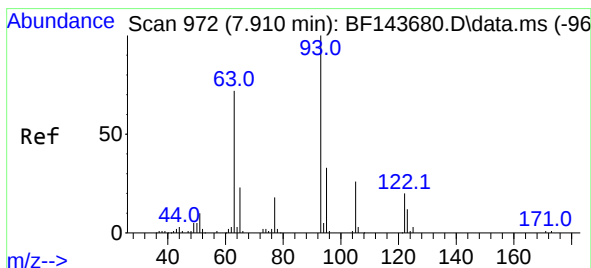
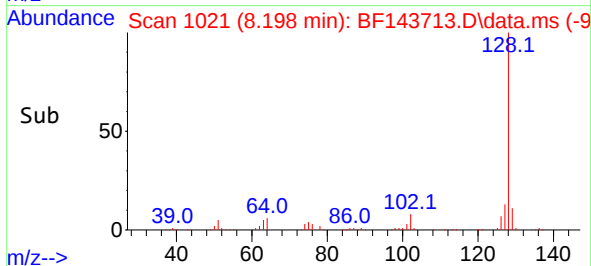
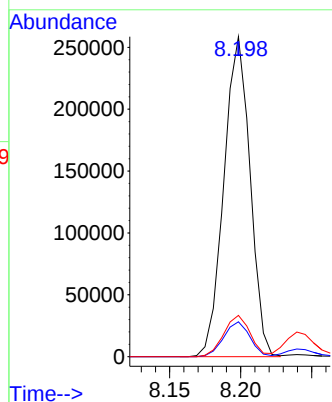
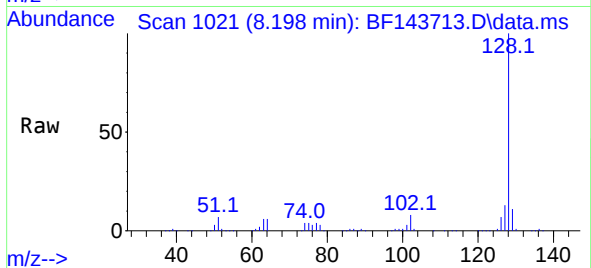
Tgt Ion:128 Resp: 331188

Ion Ratio Lower Upper

128 100

129 10.9 8.8 13.2

127 12.9 10.9 16.3



#32

Benzoic acid

Concen: 53.884 ng

RT: 7.922 min Scan# 974

Delta R.T. 0.012 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

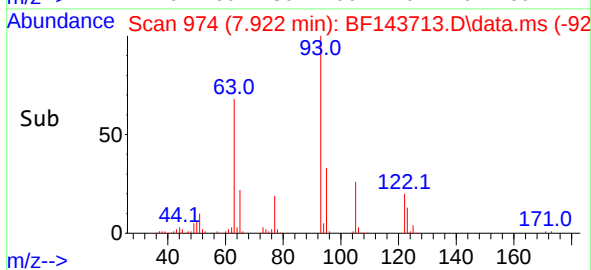
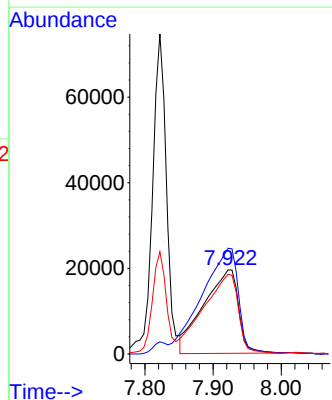
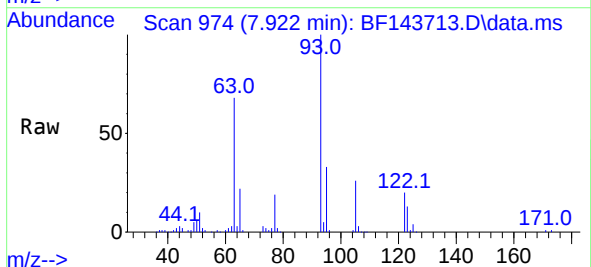
Tgt Ion:122 Resp: 69432

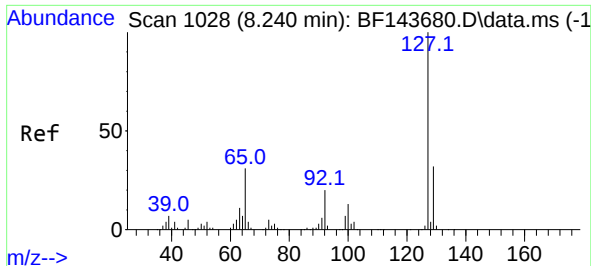
Ion Ratio Lower Upper

122 100

105 125.8 105.2 145.2

77 94.7 72.0 112.0





#33

4-Chloroaniline

Concen: 12.085 ng

RT: 8.240 min Scan# 1028

Delta R.T. -0.000 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1MSD

Tgt Ion:127 Resp: 29895

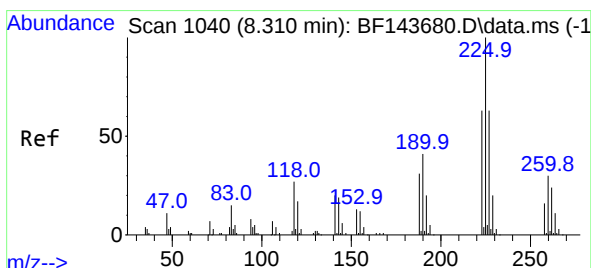
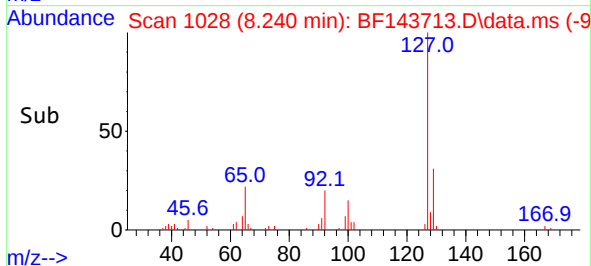
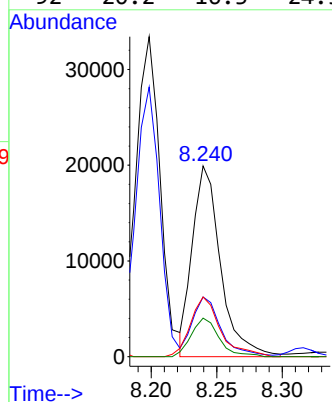
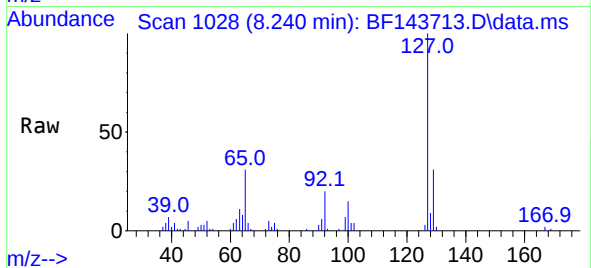
Ion Ratio Lower Upper

127 100

129 31.3 26.0 39.0

65 31.3 24.6 36.8

92 20.2 16.3 24.5



#34

Hexachlorobutadiene

Concen: 45.383 ng

RT: 8.316 min Scan# 1041

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

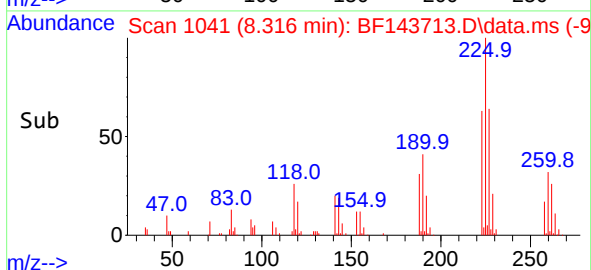
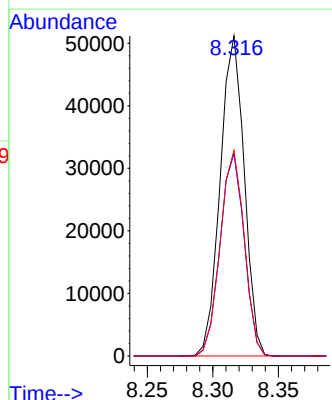
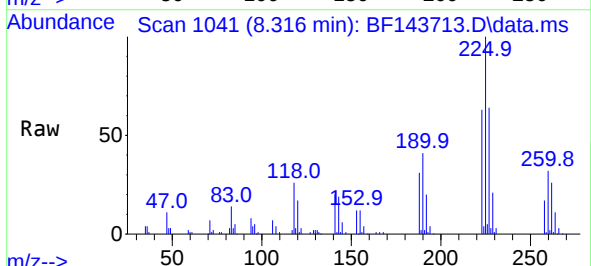
Tgt Ion:225 Resp: 65154

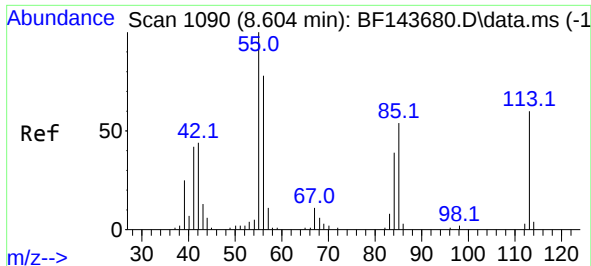
Ion Ratio Lower Upper

225 100

223 63.2 50.6 76.0

227 64.2 50.8 76.2

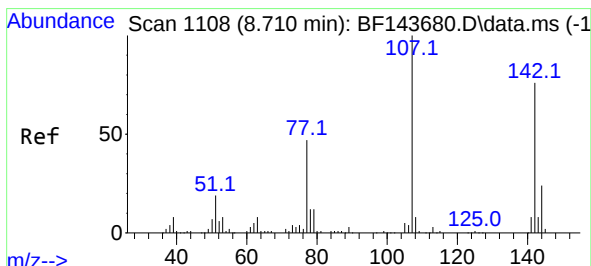
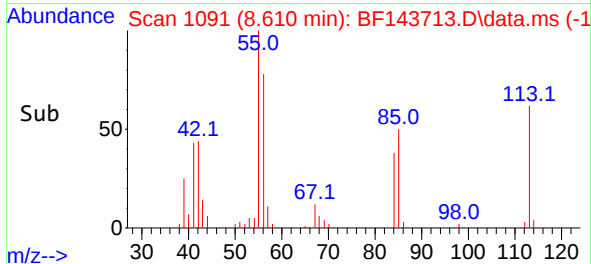
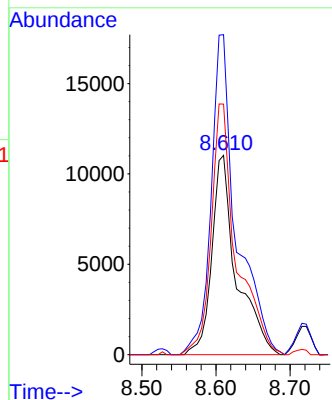
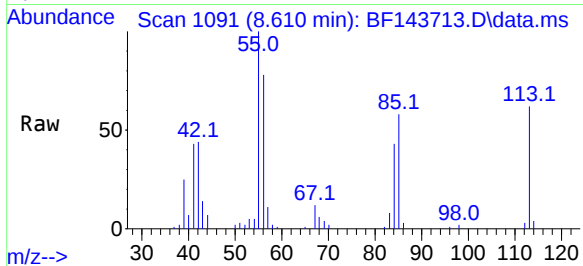




#35
 Caprolactam
 Concen: 45.255 ng
 RT: 8.610 min Scan# 1109
 Delta R.T. 0.006 min
 Lab File: BF143713.D
 Acq: 11 Sep 2025 18:29

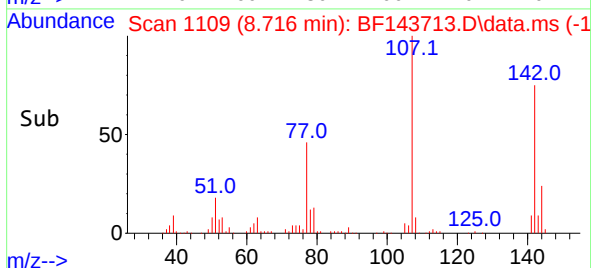
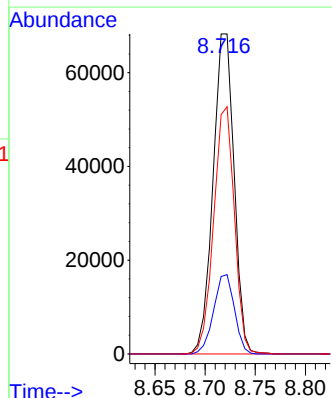
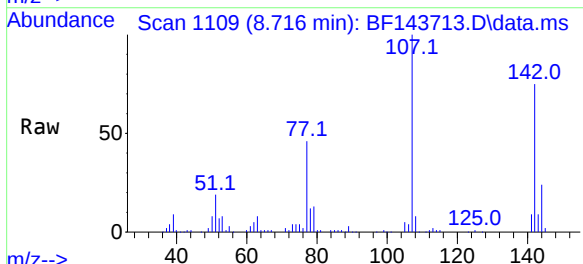
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-1MSD

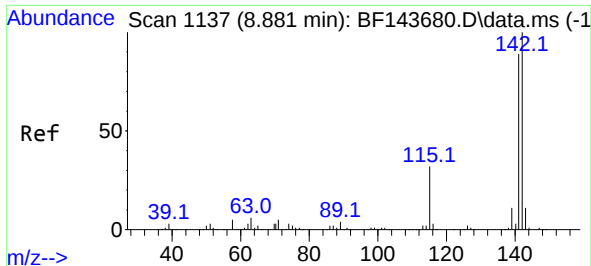
Tgt Ion:113 Resp: 25590
 Ion Ratio Lower Upper
 113 100
 55 160.5 148.9 188.9
 56 125.6 112.8 152.8



#36
 4-Chloro-3-methylphenol
 Concen: 47.717 ng
 RT: 8.716 min Scan# 1109
 Delta R.T. 0.006 min
 Lab File: BF143713.D
 Acq: 11 Sep 2025 18:29

Tgt Ion:107 Resp: 99959
 Ion Ratio Lower Upper
 107 100
 144 24.2 19.4 29.2
 142 74.8 60.6 91.0





#37

2-Methylnaphthalene

Concen: 41.952 ng

RT: 8.887 min Scan# 1137

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

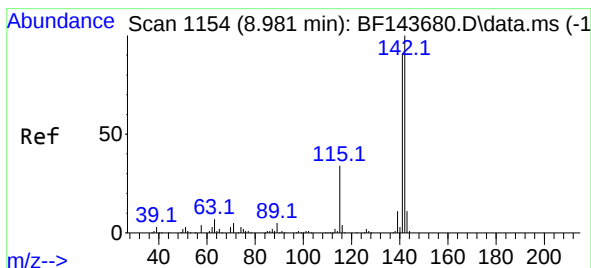
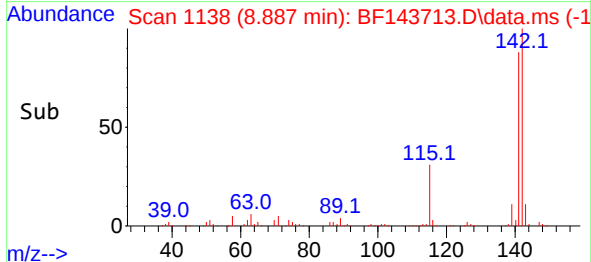
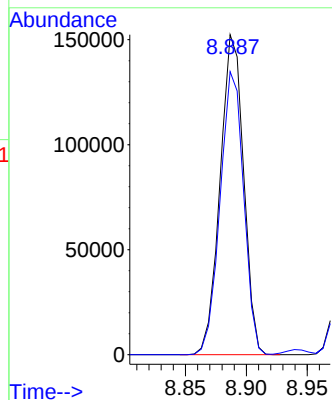
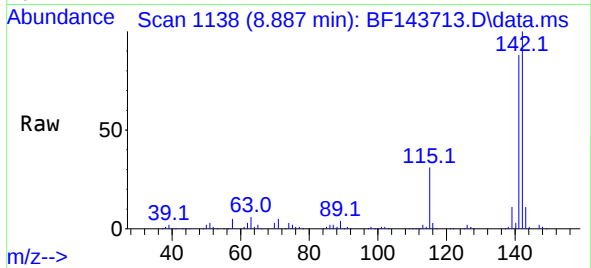
SOIL-PILE-1MSD

Tgt Ion:142 Resp: 204062

Ion Ratio Lower Upper

142 100

141 88.5 71.1 106.7



#38

1-Methylnaphthalene

Concen: 44.536 ng

RT: 8.987 min Scan# 1155

Delta R.T. 0.006 min

Lab File: BF143713.D

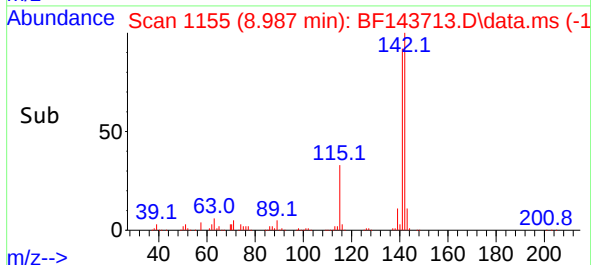
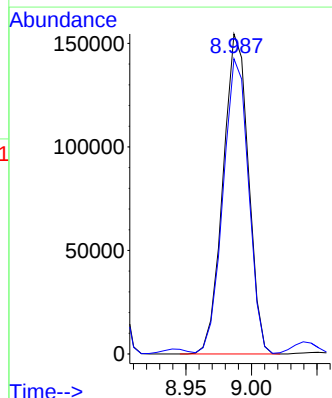
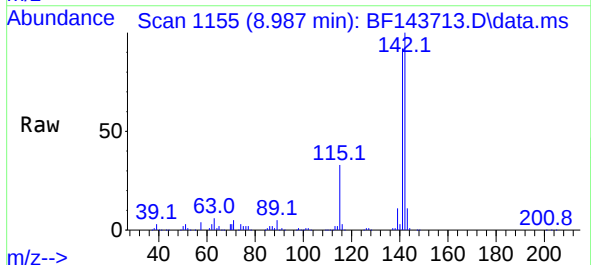
Acq: 11 Sep 2025 18:29

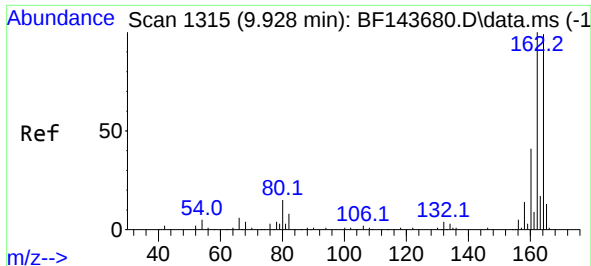
Tgt Ion:142 Resp: 207897

Ion Ratio Lower Upper

142 100

141 92.3 72.9 109.3





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.934 min Scan# 1166

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1MSD

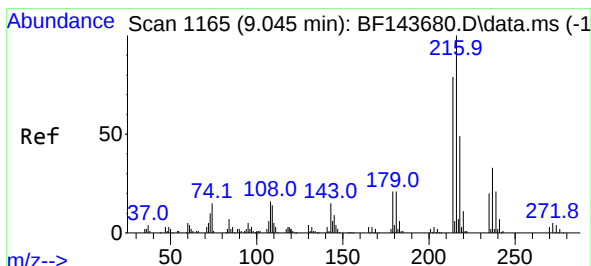
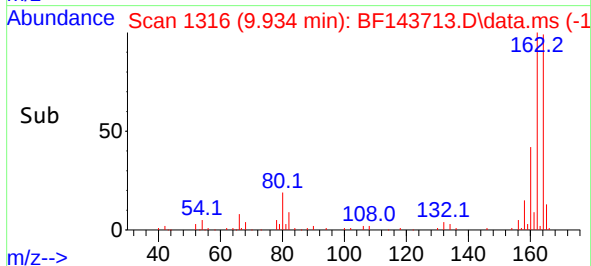
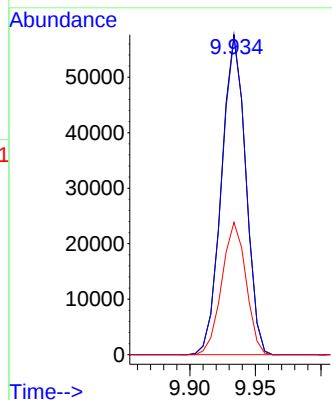
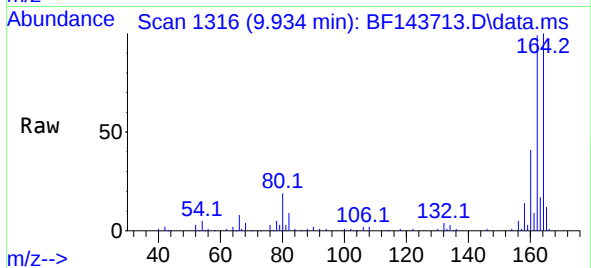
Tgt Ion:164 Resp: 73691

Ion Ratio Lower Upper

164 100

162 99.0 80.6 121.0

160 41.4 33.0 49.4



#40

1,2,4,5-Tetrachlorobenzene

Concen: 56.156 ng

RT: 9.051 min Scan# 1166

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Tgt Ion:216 Resp: 118470

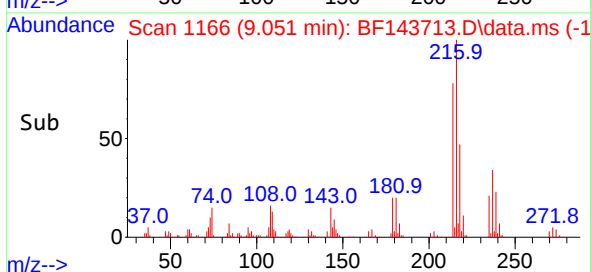
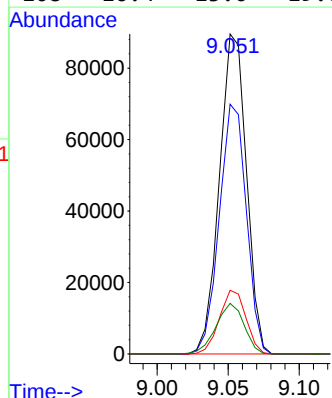
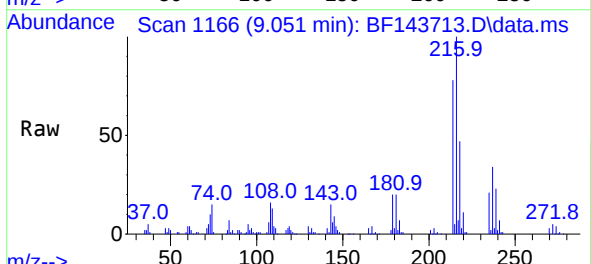
Ion Ratio Lower Upper

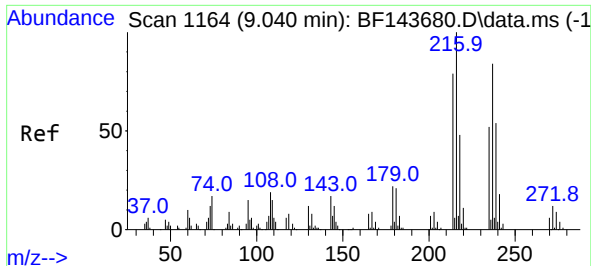
216 100

214 78.2 63.2 94.8

179 19.6 16.8 25.2

108 16.4 13.0 19.6

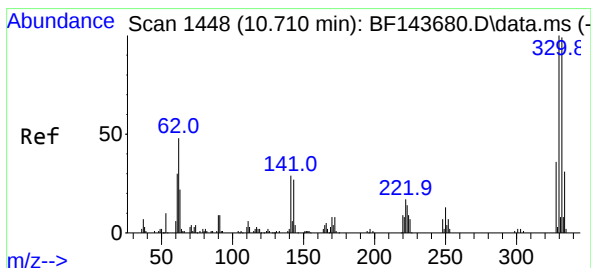
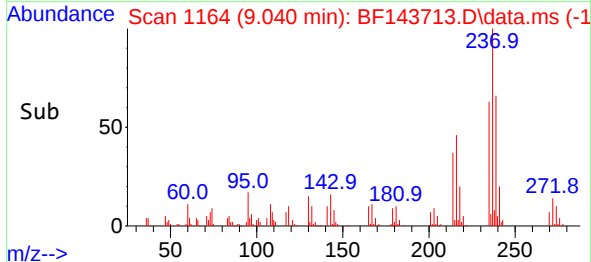
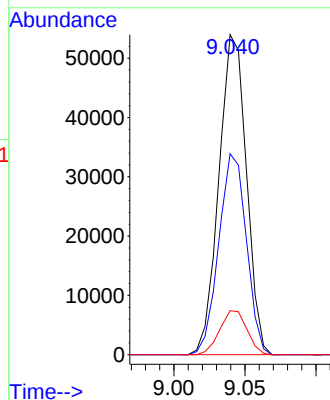
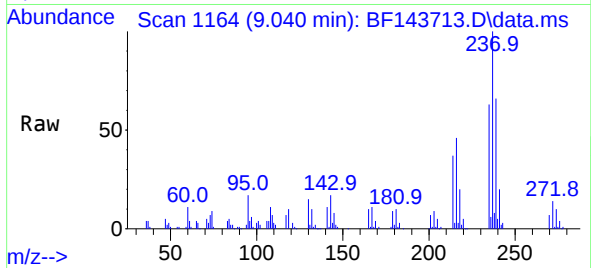




#41
Hexachlorocyclopentadiene
Concen: 67.117 ng
RT: 9.040 min Scan# 1164
Delta R.T. -0.000 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

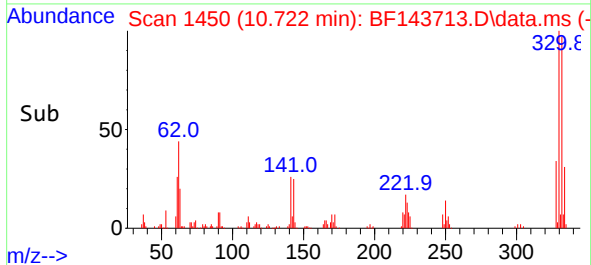
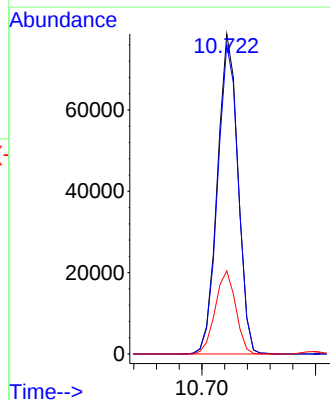
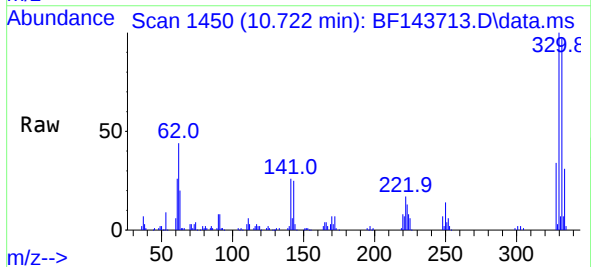
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

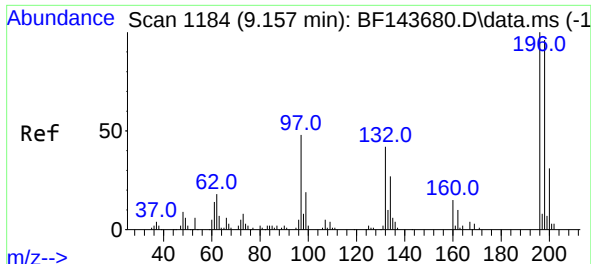
Tgt Ion:237 Resp: 72694
Ion Ratio Lower Upper
237 100
235 62.8 41.6 81.6
272 13.7 0.0 33.9



#42
2,4,6-Tribromophenol
Concen: 133.094 ng
RT: 10.722 min Scan# 1450
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:330 Resp: 98841
Ion Ratio Lower Upper
330 100
332 96.8 79.2 118.8
141 25.8 22.2 33.4

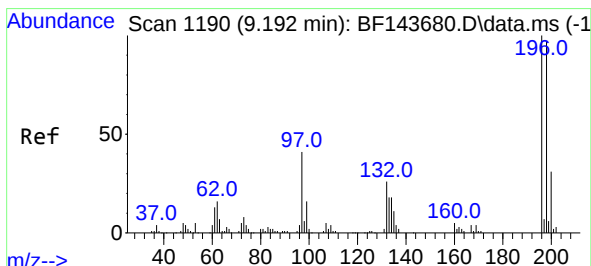
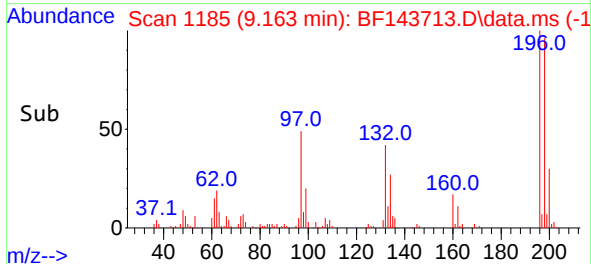
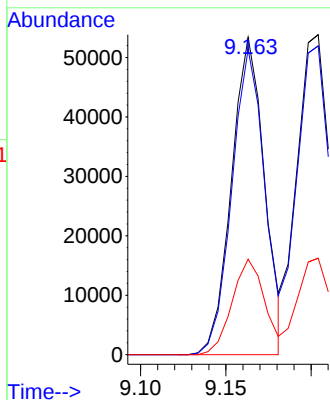
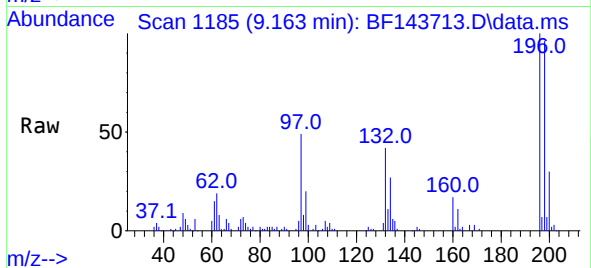




#43
2,4,6-Trichlorophenol
Concen: 51.129 ng
RT: 9.163 min Scan# 1185
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

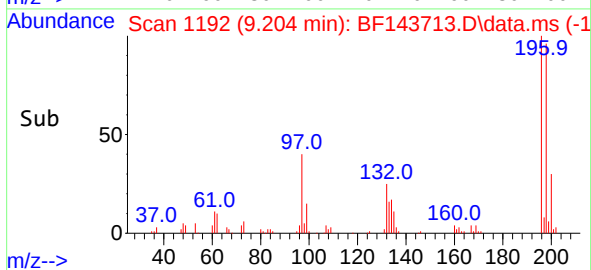
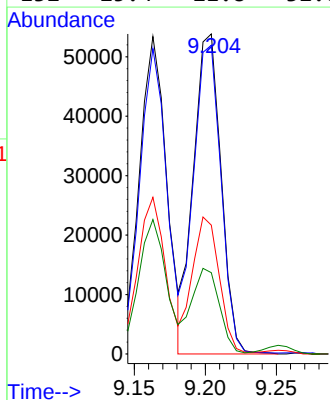
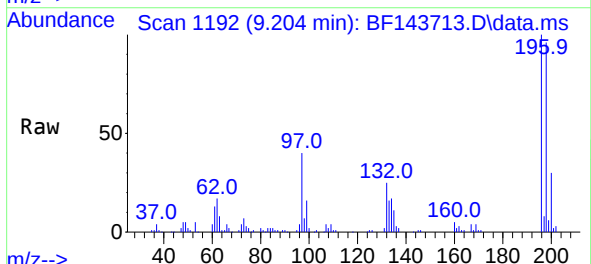
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

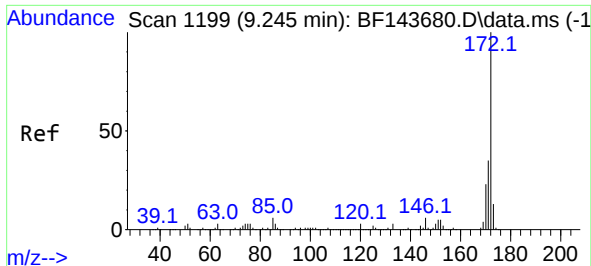
Tgt Ion:196 Resp: 72026
Ion Ratio Lower Upper
196 100
198 96.2 76.5 114.7
200 30.1 24.5 36.7



#44
2,4,5-Trichlorophenol
Concen: 50.953 ng
RT: 9.204 min Scan# 1192
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:196 Resp: 72970
Ion Ratio Lower Upper
196 100
198 96.5 77.0 115.6
97 40.3 34.2 51.4
132 25.4 21.8 32.6





#45

2-Fluorobiphenyl

Concen: 100.602 ng

RT: 9.251 min Scan# 1199

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1MSD

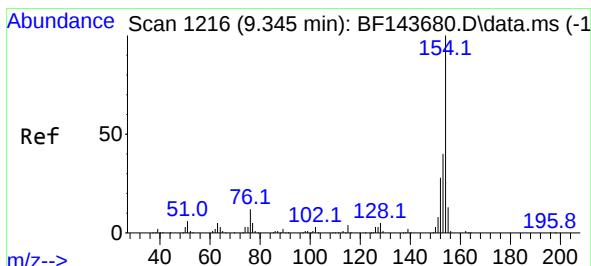
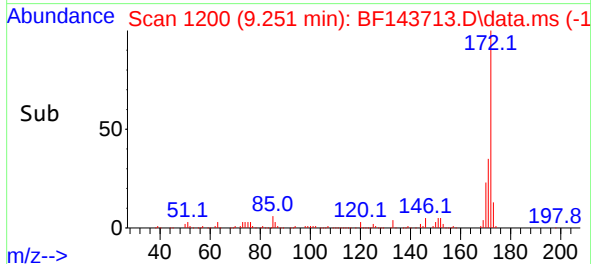
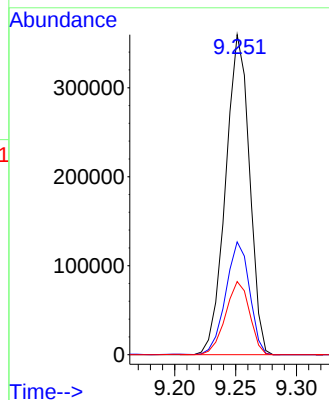
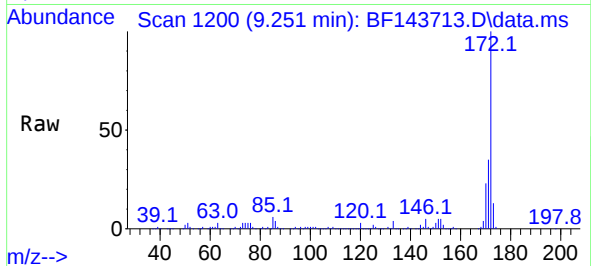
Tgt Ion:172 Resp: 490757

Ion Ratio Lower Upper

172 100

171 35.2 27.9 41.9

170 22.8 18.6 27.8



#46

1,1'-Biphenyl

Concen: 58.209 ng

RT: 9.351 min Scan# 1217

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

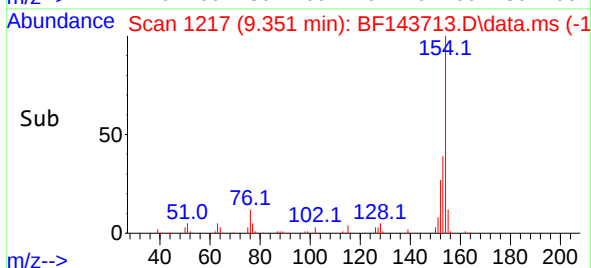
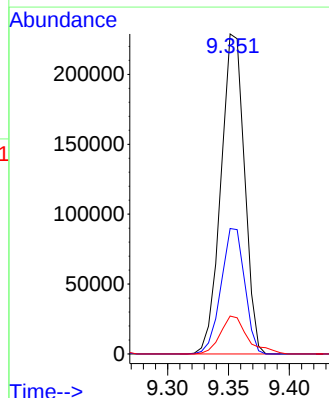
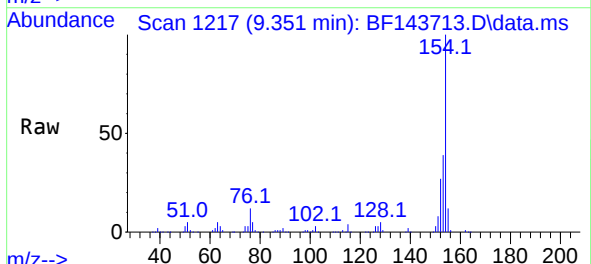
Tgt Ion:154 Resp: 308807

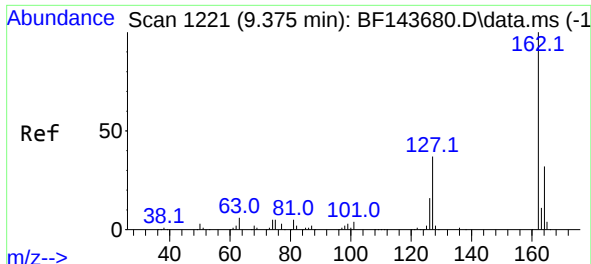
Ion Ratio Lower Upper

154 100

153 39.2 20.2 60.2

76 11.8 0.0 31.6





#47

2-Chloronaphthalene

Concen: 50.250 ng

RT: 9.381 min Scan# 11

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1MSD

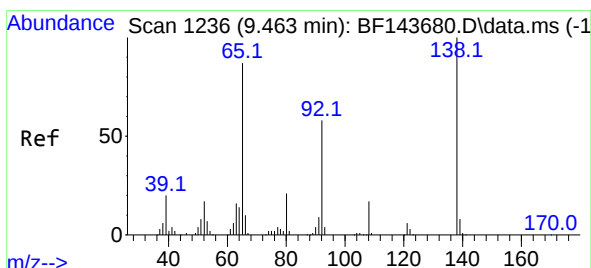
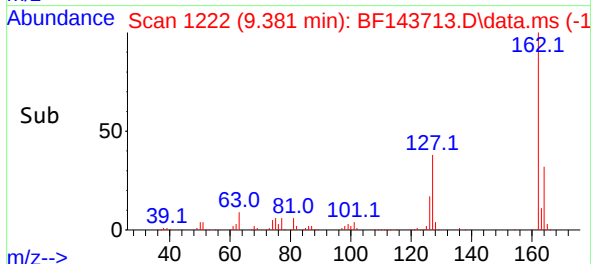
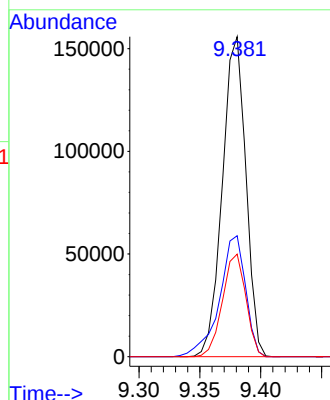
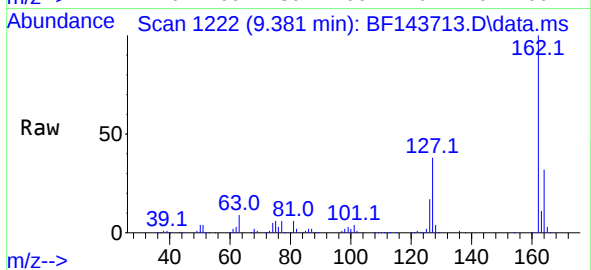
Tgt Ion:162 Resp: 208993

Ion Ratio Lower Upper

162 100

127 37.8 30.6 45.8

164 32.0 25.8 38.8



#48

2-Nitroaniline

Concen: 53.915 ng

RT: 9.469 min Scan# 1237

Delta R.T. 0.006 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

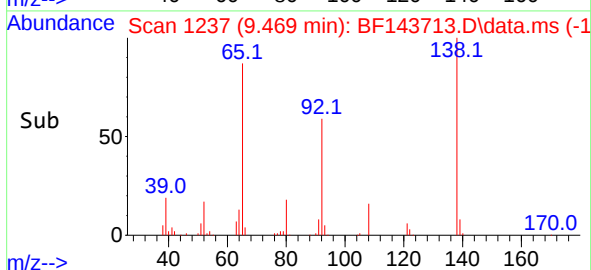
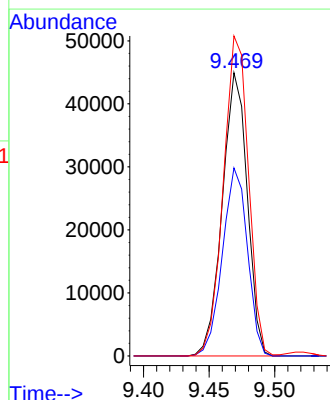
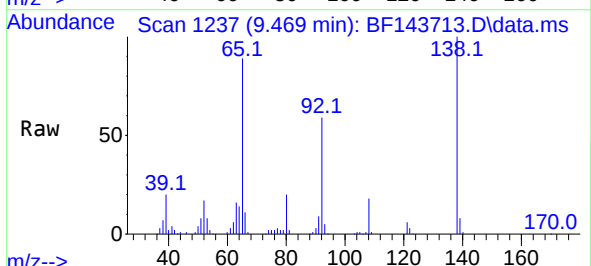
Tgt Ion: 65 Resp: 59341

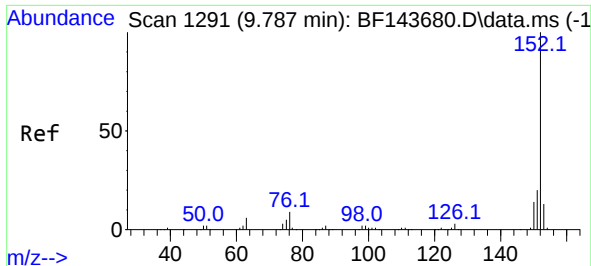
Ion Ratio Lower Upper

65 100

92 66.4 53.3 79.9

138 113.0 92.1 138.1





#49

Acenaphthylene

Concen: 56.697 ng

RT: 9.798 min Scan# 1293

Delta R.T. 0.012 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1MSD

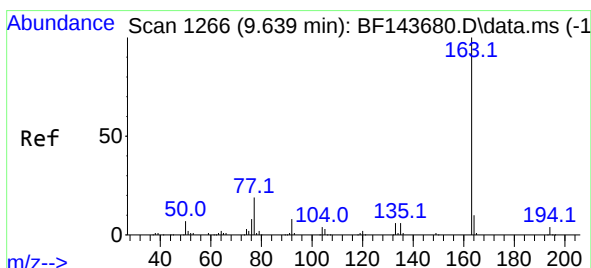
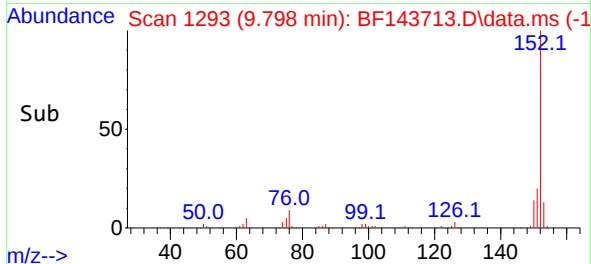
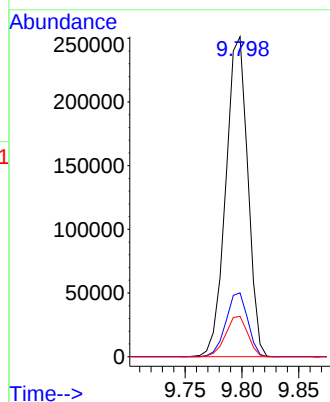
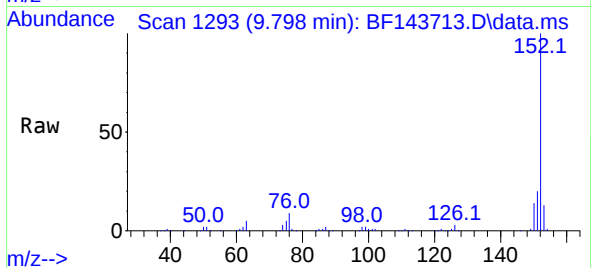
Tgt Ion:152 Resp: 337775

Ion Ratio Lower Upper

152 100

151 20.0 15.9 23.9

153 12.6 10.4 15.6



#50

Dimethylphthalate

Concen: 51.990 ng

RT: 9.651 min Scan# 1268

Delta R.T. 0.012 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

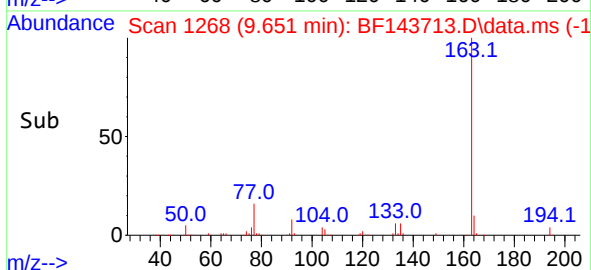
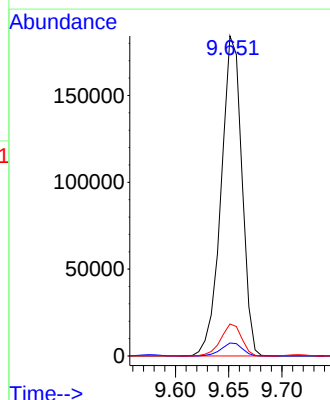
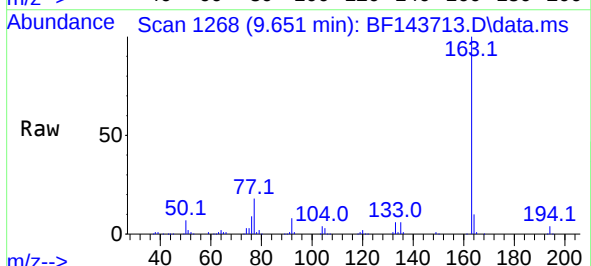
Tgt Ion:163 Resp: 249269

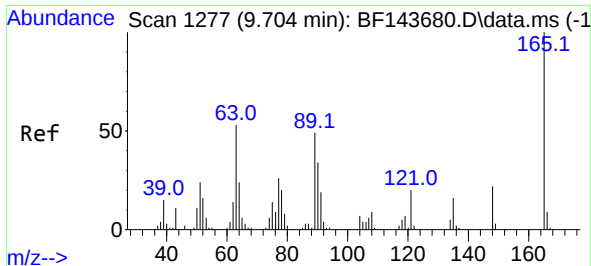
Ion Ratio Lower Upper

163 100

194 4.0 3.4 5.0

164 10.0 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 54.890 ng

RT: 9.716 min Scan# 11

Delta R.T. 0.012 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1MSD

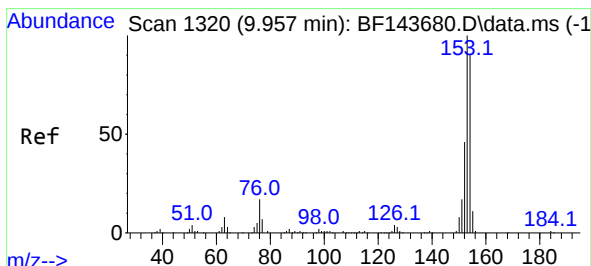
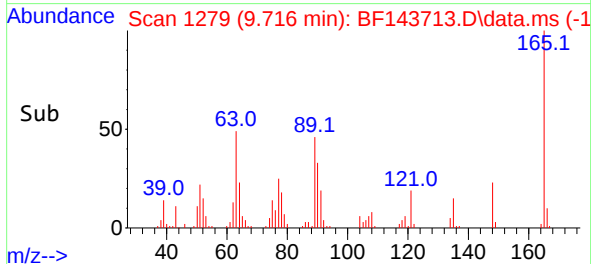
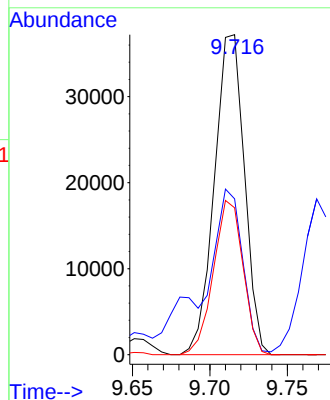
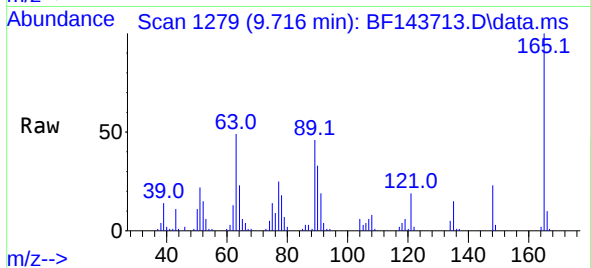
Tgt Ion:165 Resp: 50318

Ion Ratio Lower Upper

165 100

63 48.7 42.2 63.4

89 45.9 39.3 58.9



#52

Acenaphthene

Concen: 49.836 ng

RT: 9.969 min Scan# 1322

Delta R.T. 0.012 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

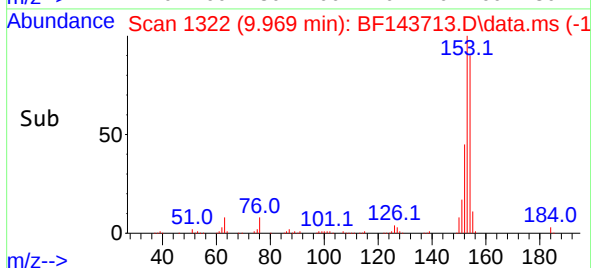
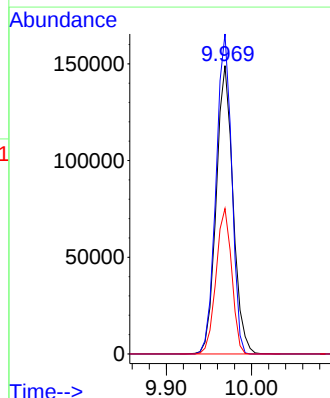
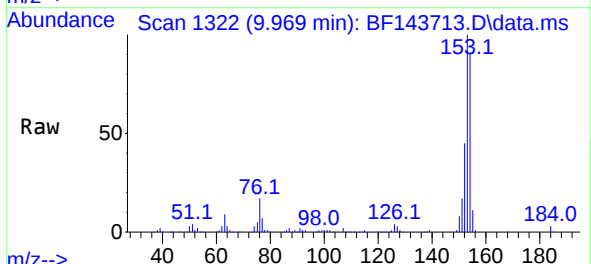
Tgt Ion:154 Resp: 204592

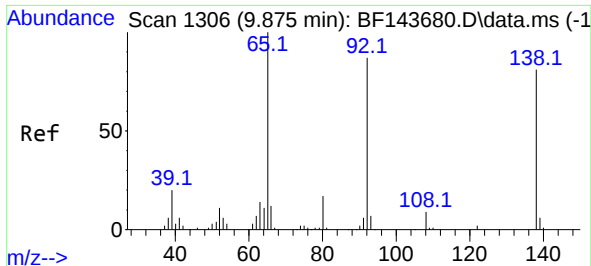
Ion Ratio Lower Upper

154 100

153 111.0 89.4 134.0

152 50.4 41.2 61.8

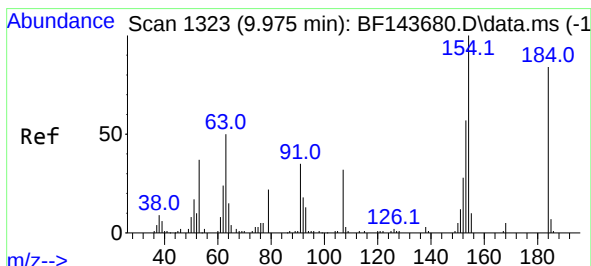
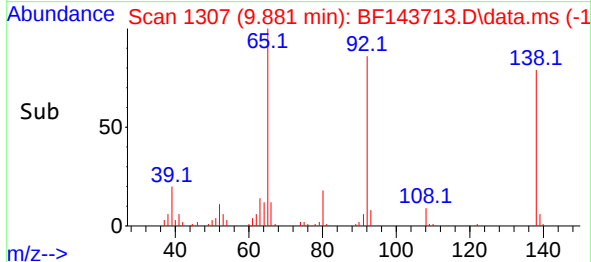
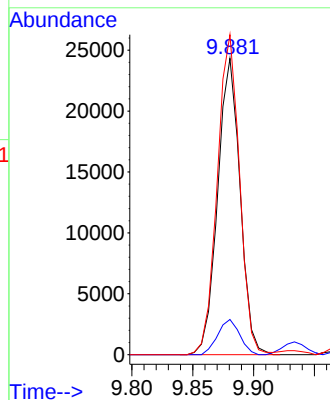
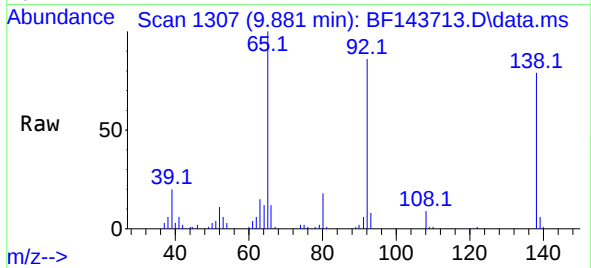




#53
3-Nitroaniline
Concen: 31.613 ng
RT: 9.881 min Scan# 1307
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

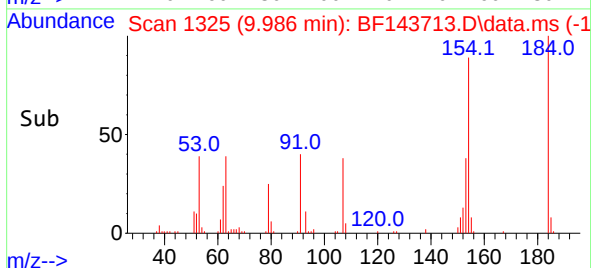
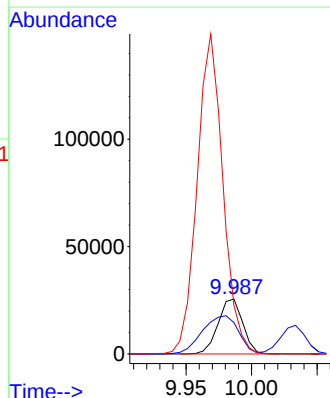
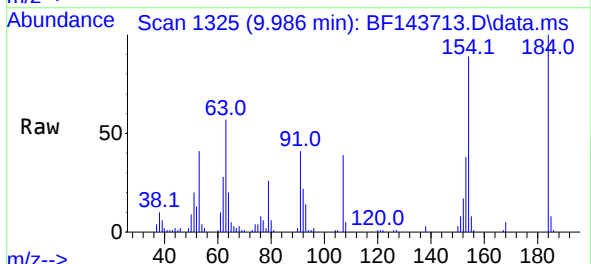
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

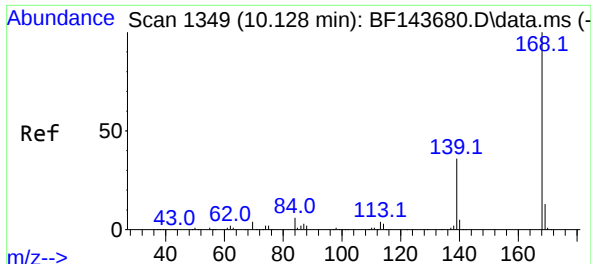
Tgt Ion:138 Resp: 31187
Ion Ratio Lower Upper
138 100
108 11.9 8.6 12.8
92 108.0 85.5 128.3



#54
2,4-Dinitrophenol
Concen: 68.382 ng
RT: 9.986 min Scan# 1325
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:184 Resp: 33293
Ion Ratio Lower Upper
184 100
63 57.3 52.7 79.1
154 88.7 136.6 204.8#

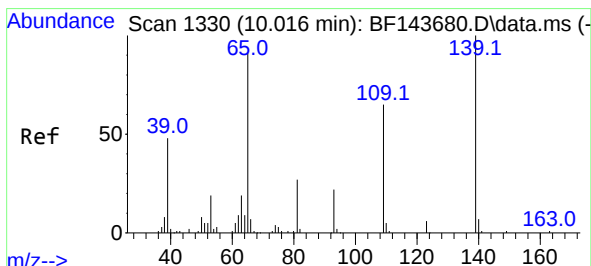
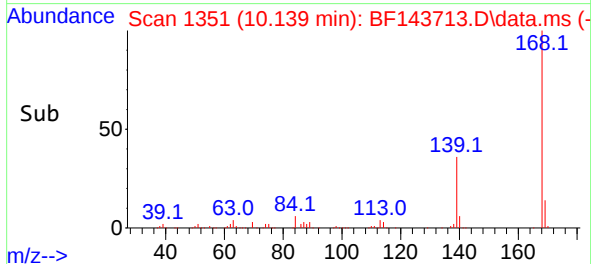
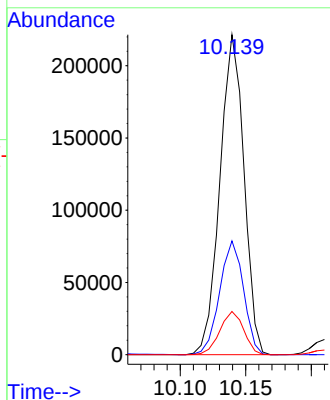
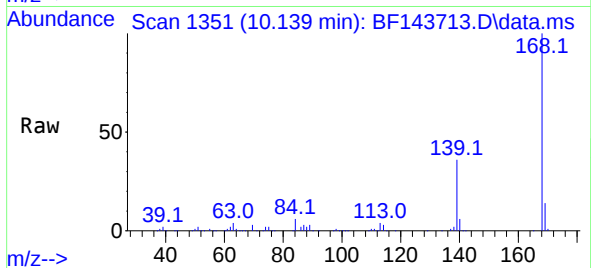




#55
Dibenzenofuran
Concen: 47.849 ng
RT: 10.139 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

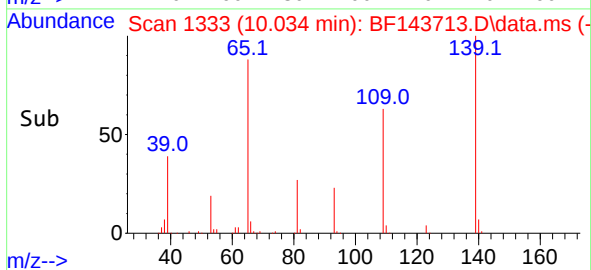
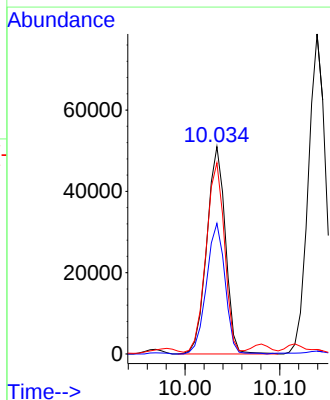
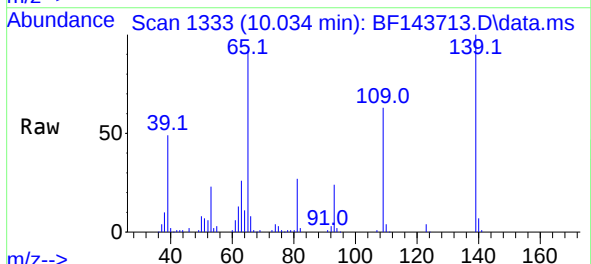
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

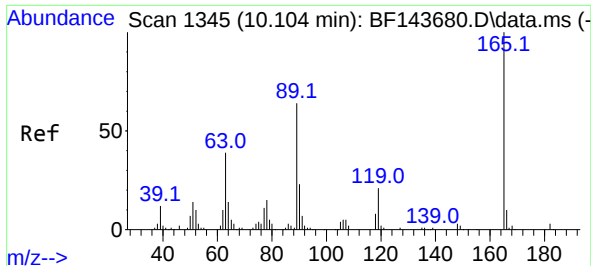
Tgt Ion:168 Resp: 282460
Ion Ratio Lower Upper
168 100
139 35.5 29.0 43.4
169 13.5 10.8 16.2



#56
4-Nitrophenol
Concen: 88.513 ng
RT: 10.034 min Scan# 1333
Delta R.T. 0.018 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

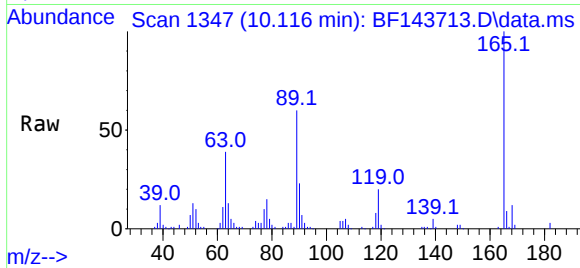
Tgt Ion:139 Resp: 69470
Ion Ratio Lower Upper
139 100
109 62.9 45.2 85.2
65 92.2 72.1 112.1



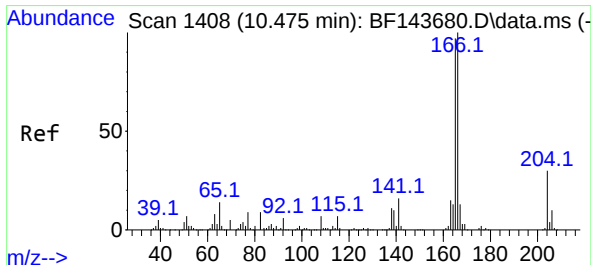
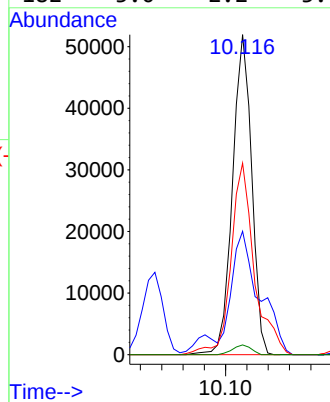
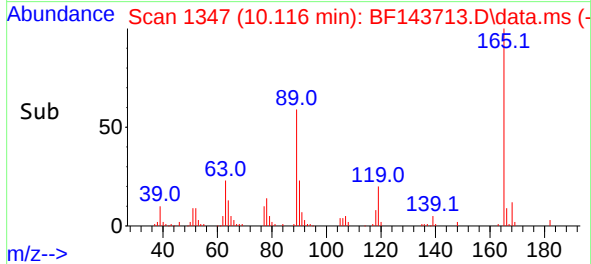


#57
2,4-Dinitrotoluene
Concen: 52.103 ng
RT: 10.116 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

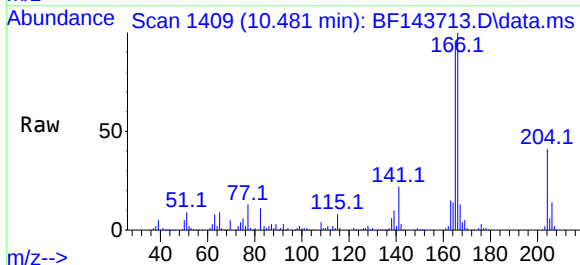
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD



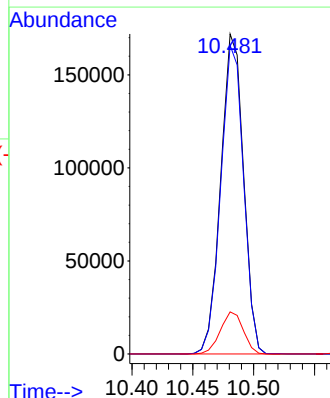
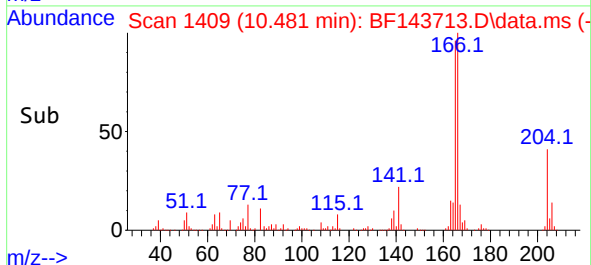
Tgt Ion:165 Resp: 65006
Ion Ratio Lower Upper
165 100
63 38.5 31.5 47.3
89 59.9 51.3 76.9
182 3.0 2.2 3.4

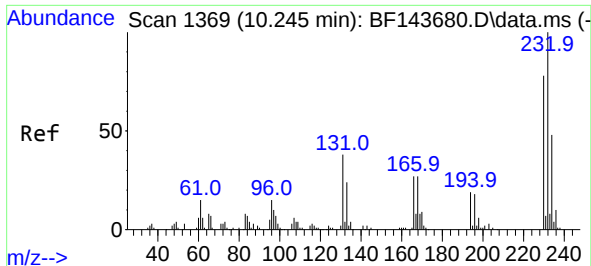


#58
Fluorene
Concen: 48.331 ng
RT: 10.481 min Scan# 1409
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29



Tgt Ion:166 Resp: 223335
Ion Ratio Lower Upper
166 100
165 96.5 77.5 116.3
167 13.2 10.2 15.2

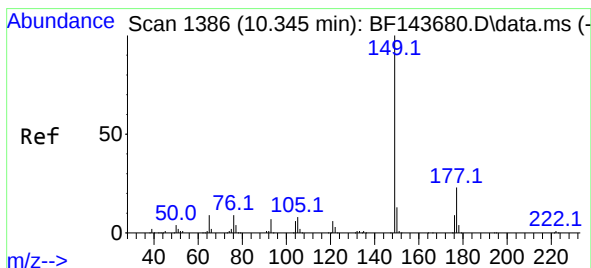
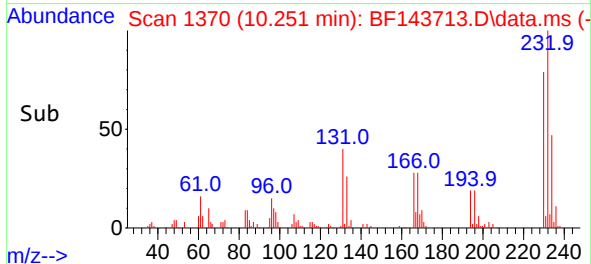
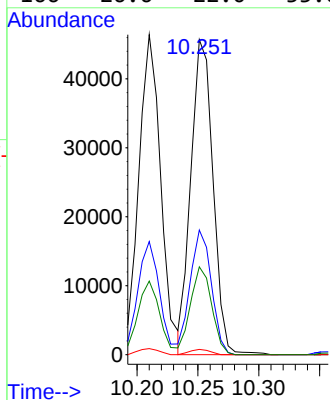
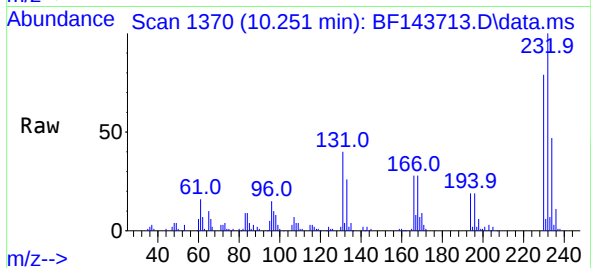




#59
2,3,4,6-Tetrachlorophenol
Concen: 49.825 ng
RT: 10.251 min Scan# 1370
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

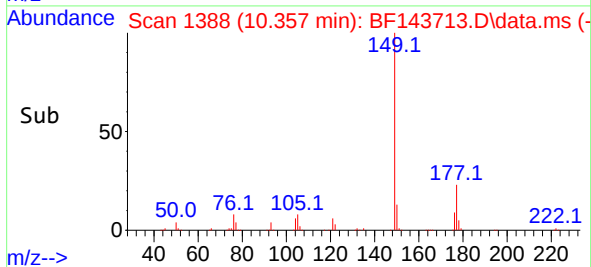
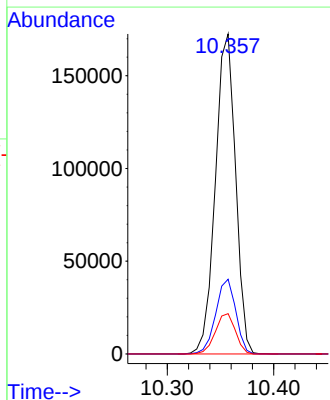
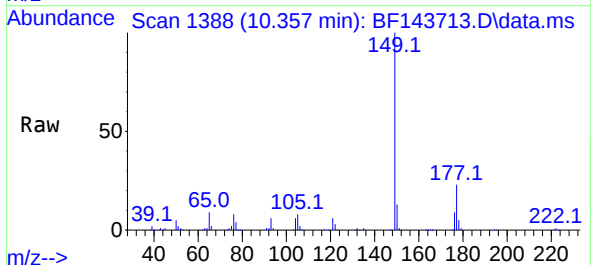
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

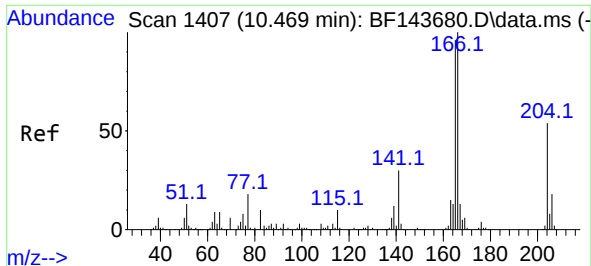
Tgt Ion:232 Resp: 57858
Ion Ratio Lower Upper
232 100
131 38.8 31.9 47.9
130 1.6 1.4 2.0
166 26.6 22.0 33.0



#60
Diethylphthalate
Concen: 50.262 ng
RT: 10.357 min Scan# 1388
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:149 Resp: 226244
Ion Ratio Lower Upper
149 100
177 23.4 18.2 27.2
150 12.6 10.0 15.0

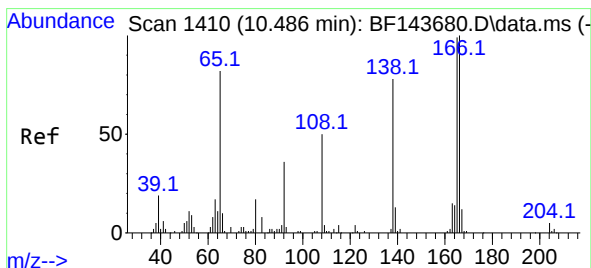
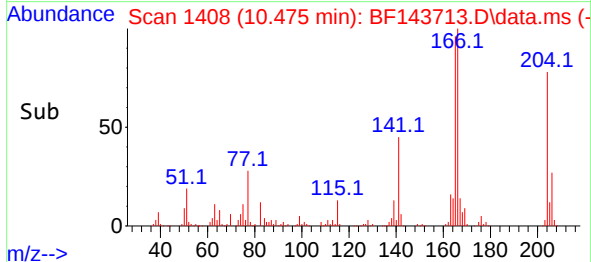
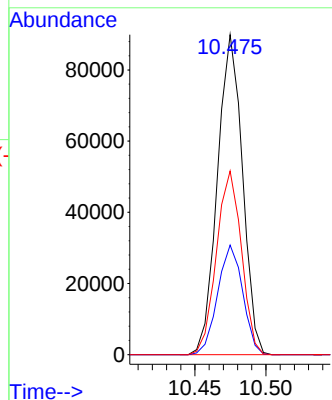
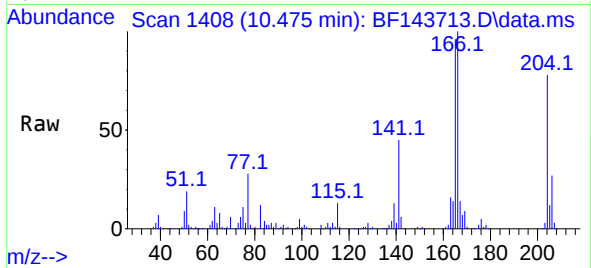




#61
4-Chlorophenyl-phenylether
Concen: 47.017 ng
RT: 10.475 min Scan# 1407
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

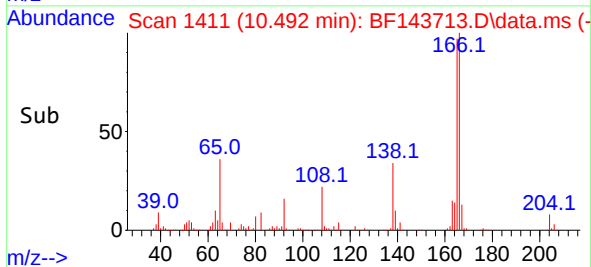
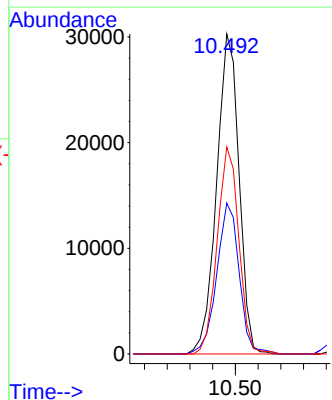
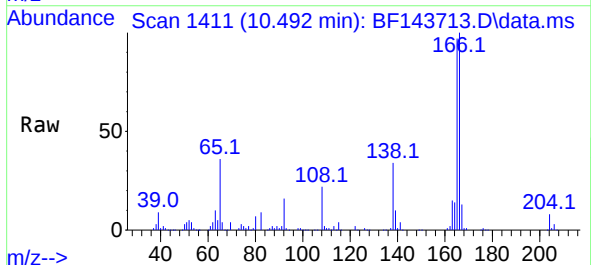
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

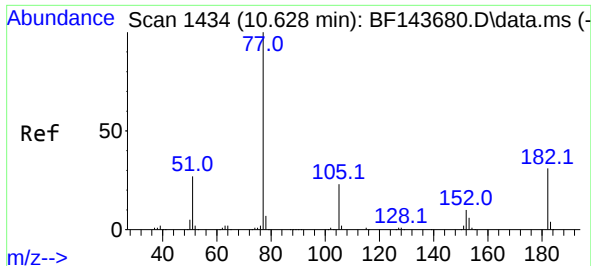
Tgt Ion:204 Resp: 110187
Ion Ratio Lower Upper
204 100
206 34.2 26.0 39.0
141 57.4 44.8 67.2



#62
4-Nitroaniline
Concen: 44.395 ng
RT: 10.492 min Scan# 1411
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:138 Resp: 41481
Ion Ratio Lower Upper
138 100
92 47.2 26.4 66.4
108 64.7 44.3 84.3



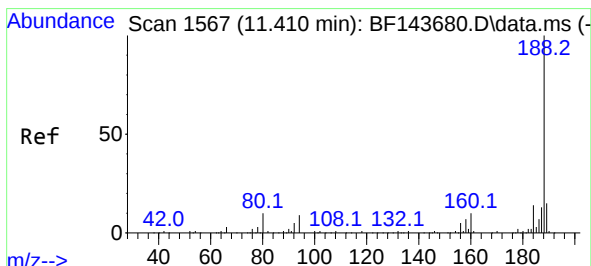
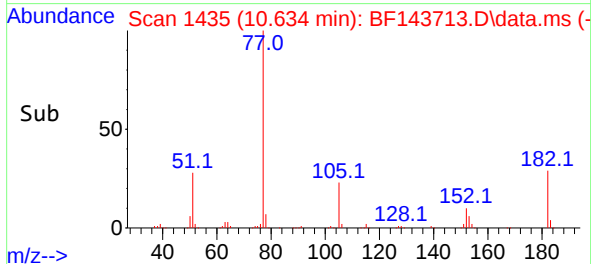
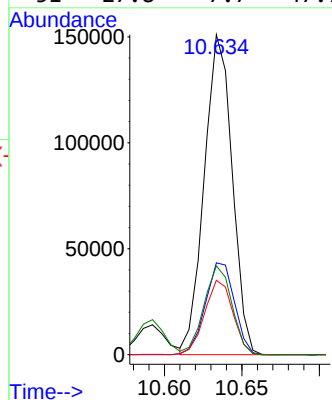
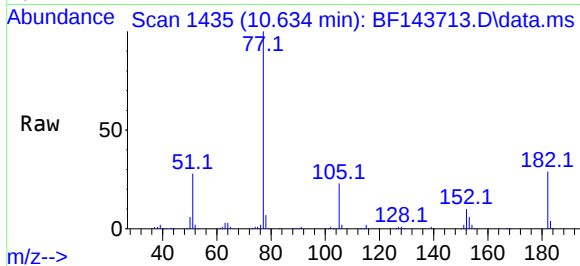


#63
Azobenzene
Concen: 47.585 ng
RT: 10.634 min Scan# 1435
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

Tgt Ion: 77 Resp: 189359

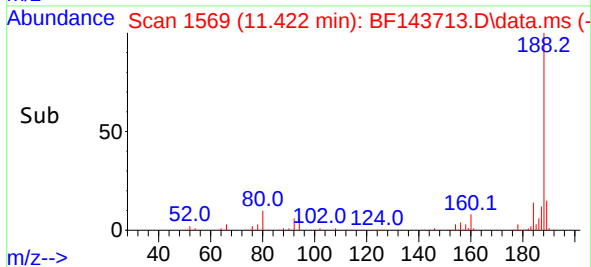
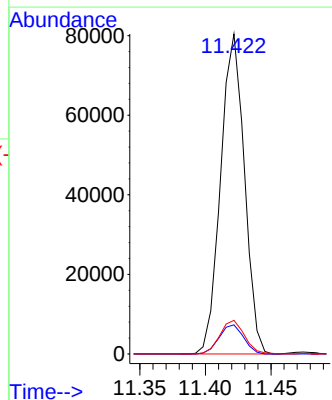
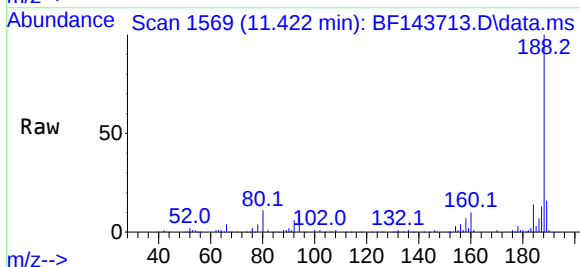
Ion	Ratio	Lower	Upper
77	100		
182	28.7	10.8	50.8
105	23.3	3.2	43.2
51	27.8	7.7	47.7

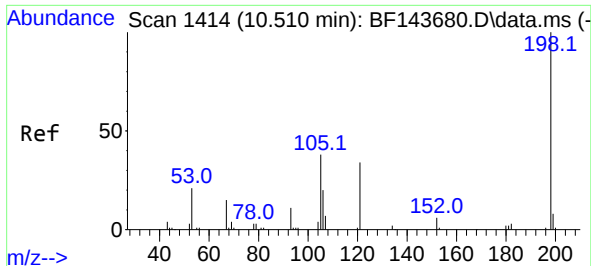


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.422 min Scan# 1569
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion: 188 Resp: 101346

Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.4	11.0
80	10.5	7.7	11.5

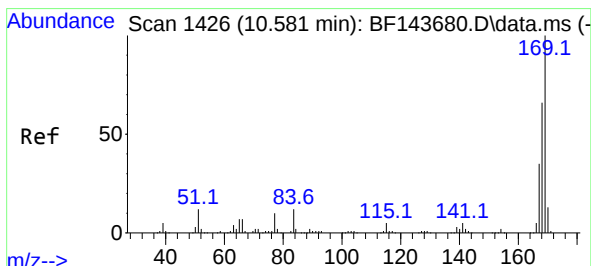
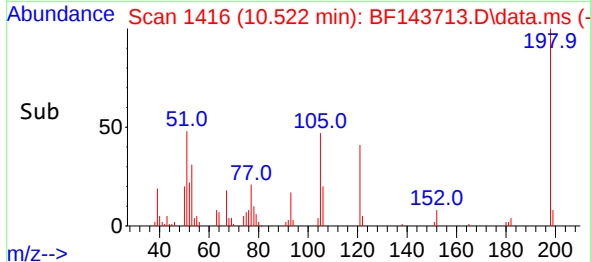
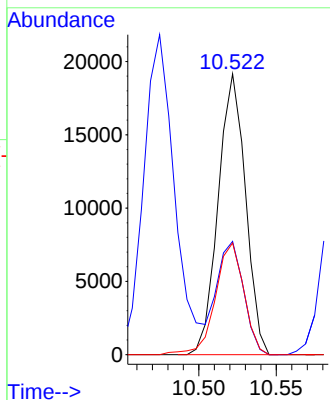
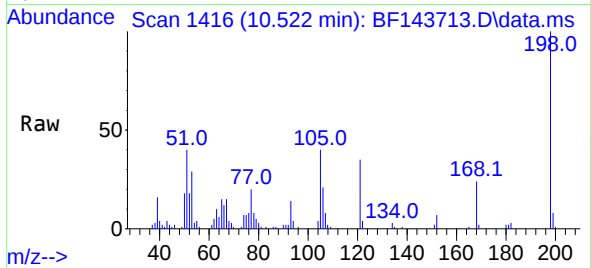




#65
4,6-Dinitro-2-methylphenol
Concen: 45.439 ng
RT: 10.522 min Scan# 1414
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

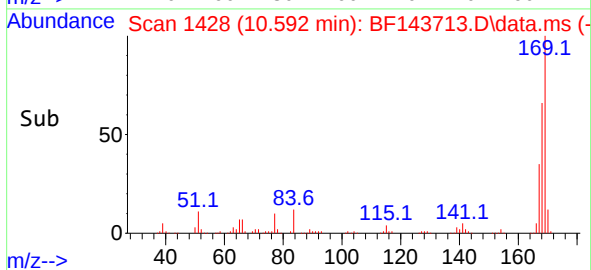
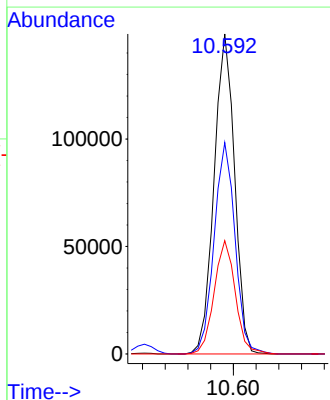
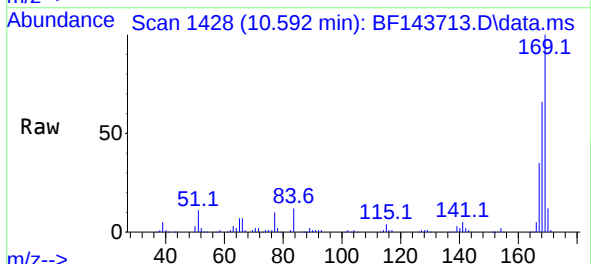
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

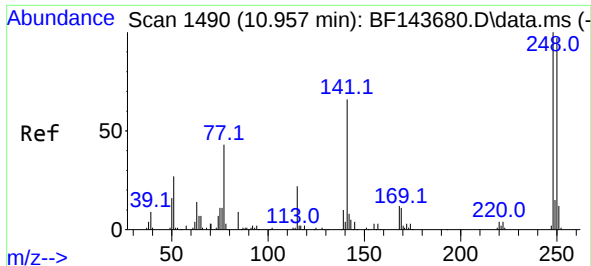
Tgt Ion:198 Resp: 23446
Ion Ratio Lower Upper
198 100
51 40.3 21.2 61.2
105 39.8 19.0 59.0



#66
n-Nitrosodiphenylamine
Concen: 56.267 ng
RT: 10.592 min Scan# 1428
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:169 Resp: 186811
Ion Ratio Lower Upper
169 100
168 66.1 53.0 79.6
167 35.4 28.1 42.1

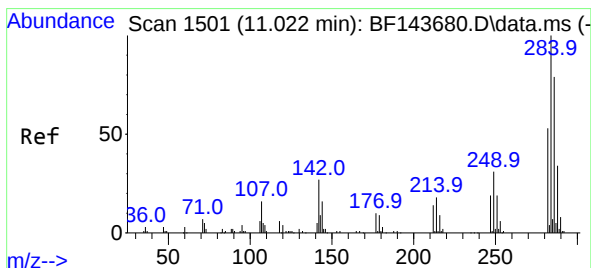
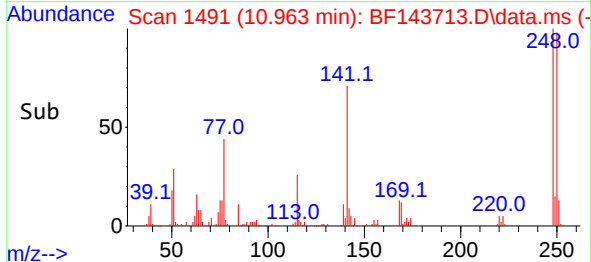
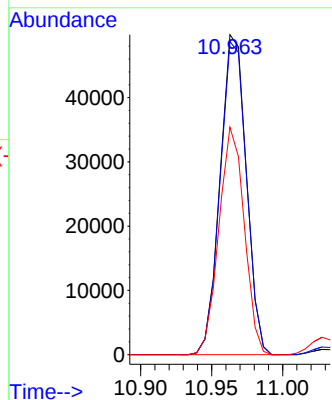
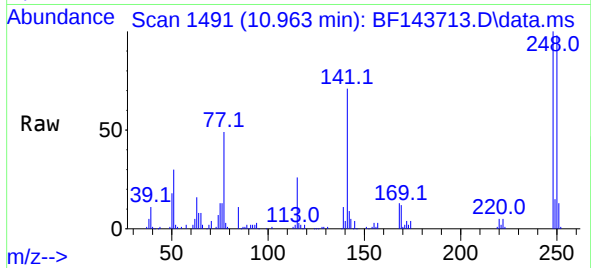




#67
4-Bromophenyl-phenylether
Concen: 52.249 ng
RT: 10.963 min Scan# 1490
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

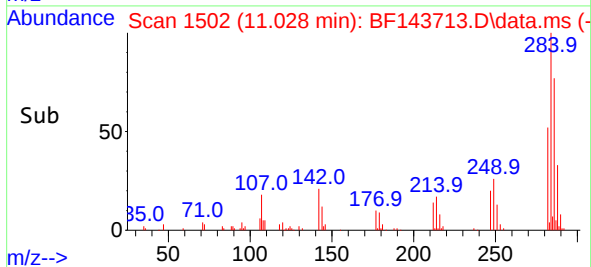
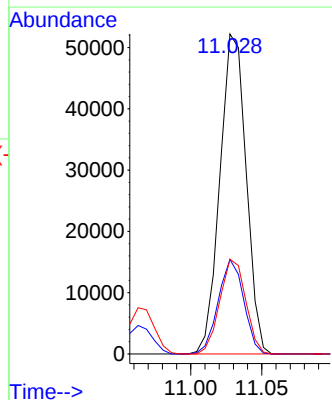
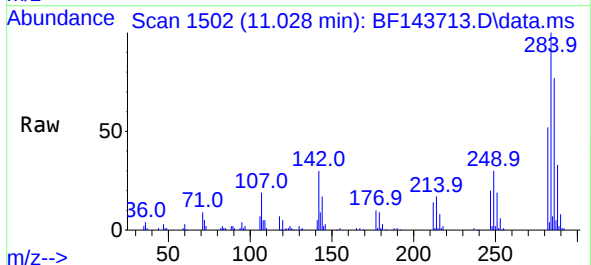
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

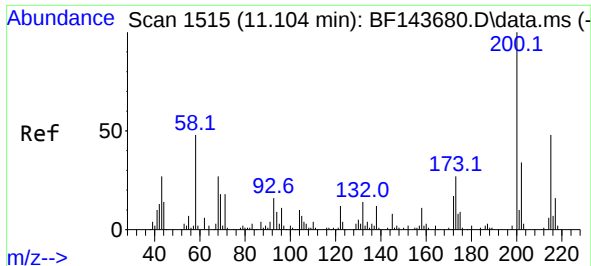
Tgt Ion:248 Resp: 63856
Ion Ratio Lower Upper
248 100
250 97.9 77.5 116.3
141 71.0 52.6 79.0



#68
Hexachlorobenzene
Concen: 51.949 ng
RT: 11.028 min Scan# 1502
Delta R.T. 0.006 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:284 Resp: 67038
Ion Ratio Lower Upper
284 100
142 29.5 21.3 31.9
249 29.6 25.0 37.4

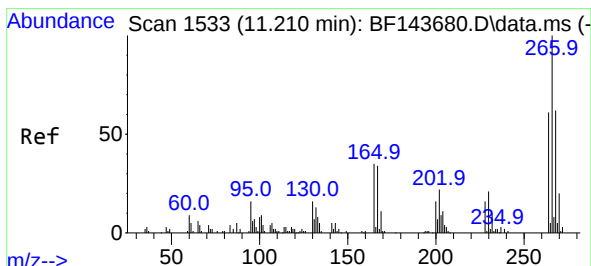
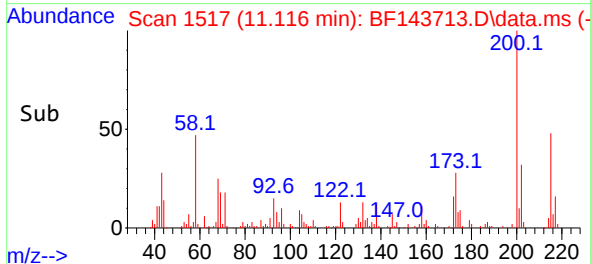
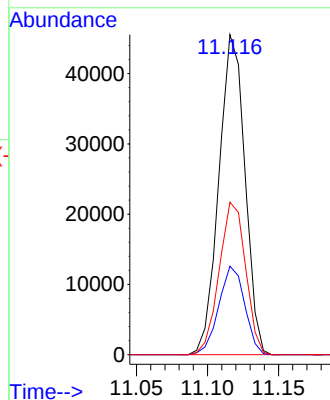
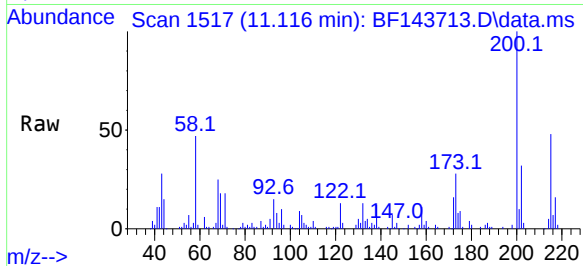




#69
Atrazine
Concen: 55.794 ng
RT: 11.116 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

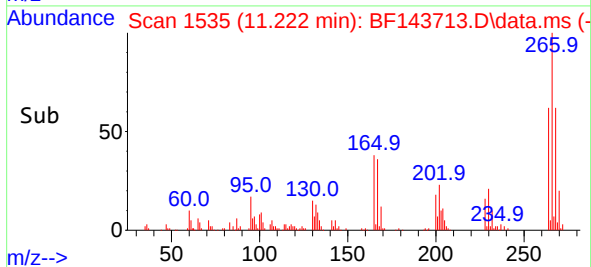
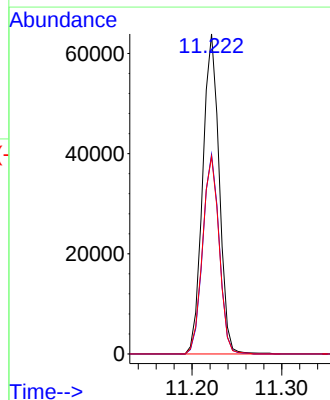
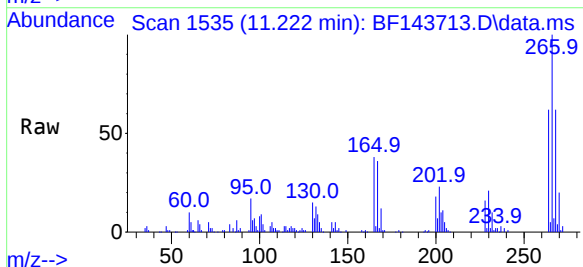
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

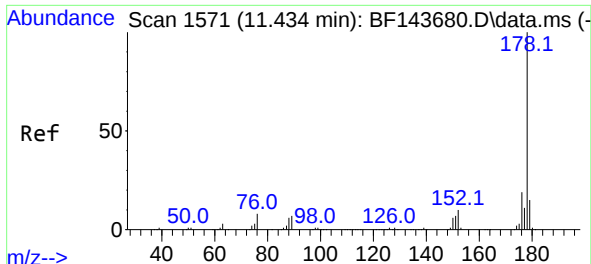
Tgt Ion:200 Resp: 58081
Ion Ratio Lower Upper
200 100
173 27.6 7.3 47.3
215 47.6 28.5 68.5



#70
Pentachlorophenol
Concen: 104.480 ng
RT: 11.222 min Scan# 1535
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:266 Resp: 81503
Ion Ratio Lower Upper
266 100
268 62.4 49.2 73.8
264 61.7 48.6 73.0

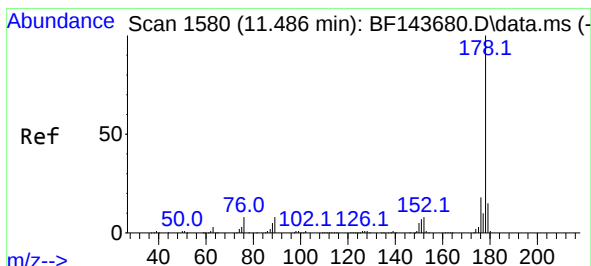
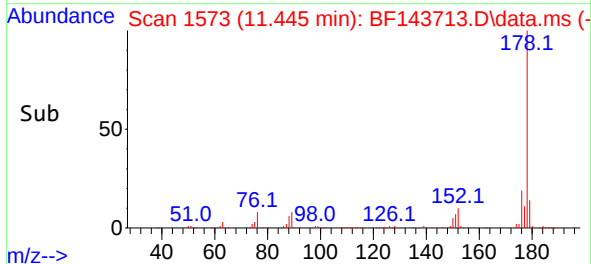
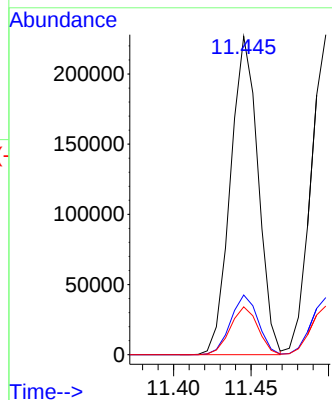
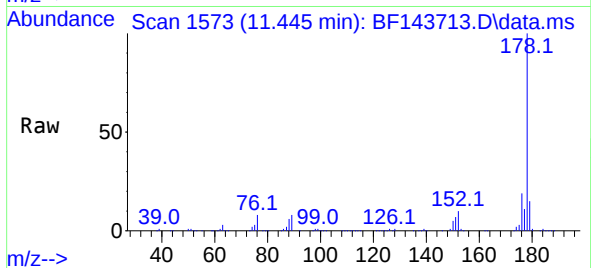




#71
Phenanthrene
Concen: 50.245 ng
RT: 11.445 min Scan# 1571
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

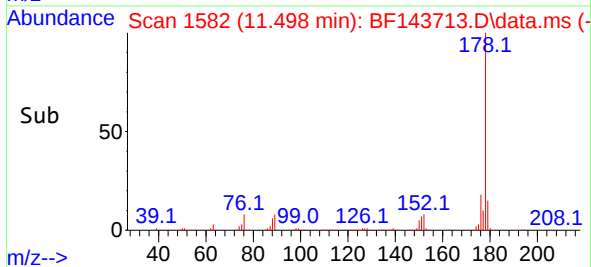
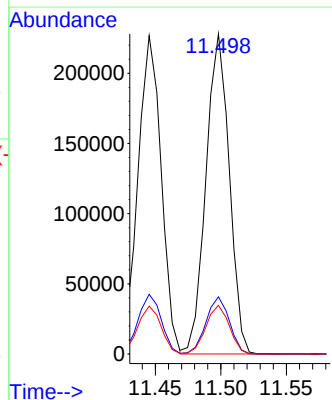
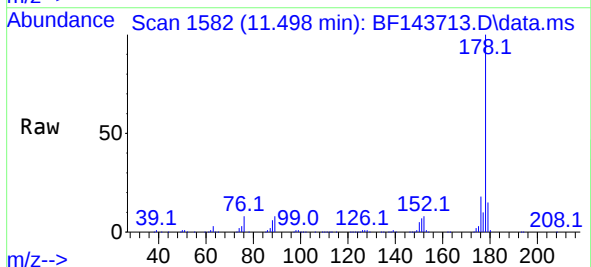
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

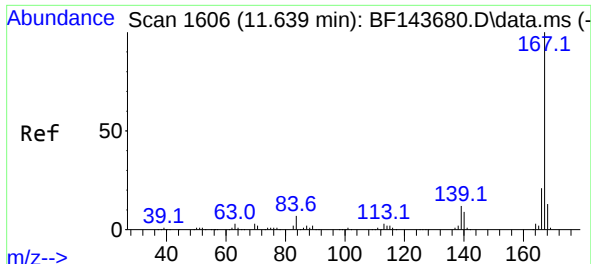
Tgt Ion:178 Resp: 280568
Ion Ratio Lower Upper
178 100
176 18.8 14.8 22.2
179 15.1 12.2 18.2



#72
Anthracene
Concen: 50.270 ng
RT: 11.498 min Scan# 1582
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

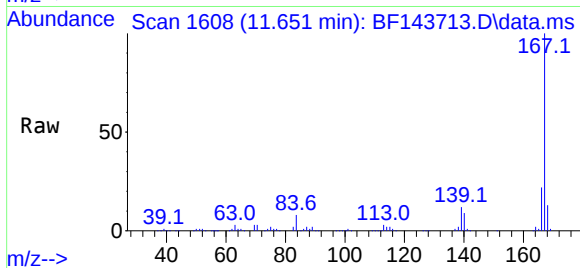
Tgt Ion:178 Resp: 282252
Ion Ratio Lower Upper
178 100
176 17.8 14.5 21.7
179 15.2 12.2 18.2



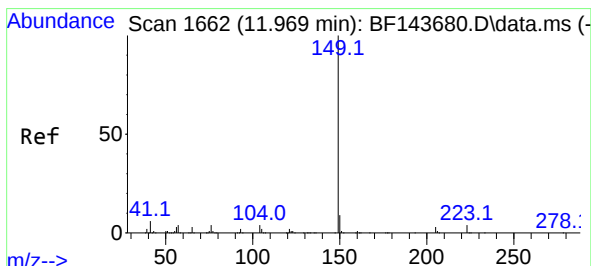
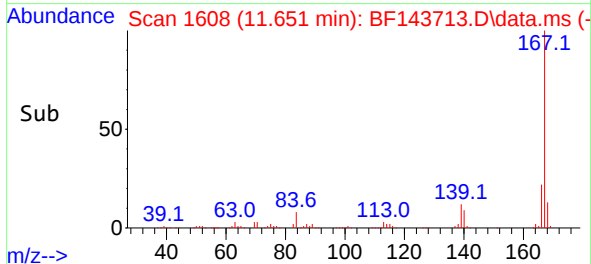
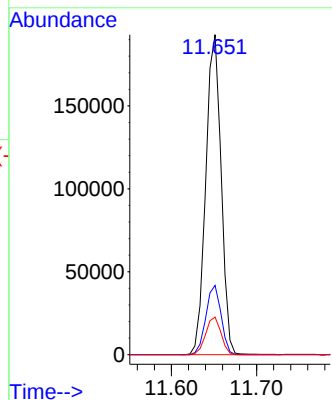


#73
 Carbazole
 Concen: 52.491 ng
 RT: 11.651 min Scan# 1608
 Delta R.T. 0.012 min
 Lab File: BF143713.D
 Acq: 11 Sep 2025 18:29

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-1MSD

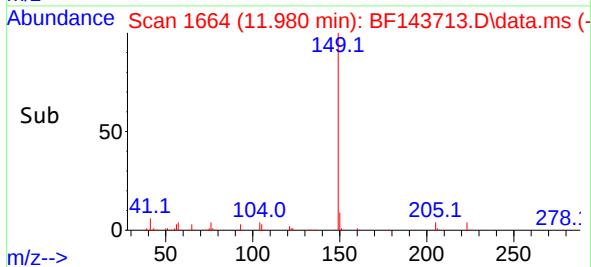
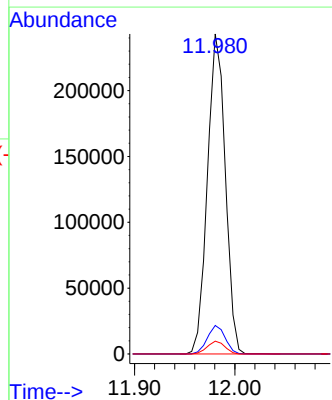
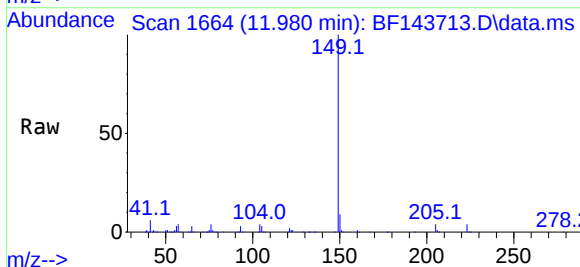


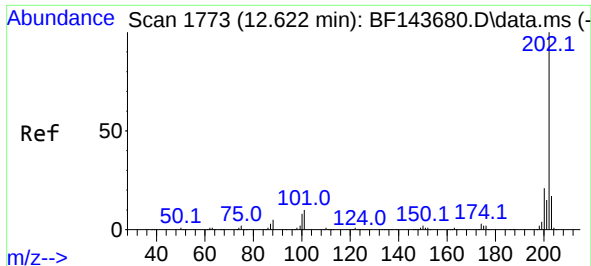
Tgt Ion:167 Resp: 241372
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.0 25.4
 139 11.7 9.7 14.5



#74
 Di-n-butylphthalate
 Concen: 54.552 ng
 RT: 11.980 min Scan# 1664
 Delta R.T. 0.012 min
 Lab File: BF143713.D
 Acq: 11 Sep 2025 18:29

Tgt Ion:149 Resp: 302001
 Ion Ratio Lower Upper
 149 100
 150 8.9 7.3 10.9
 104 4.0 3.3 4.9

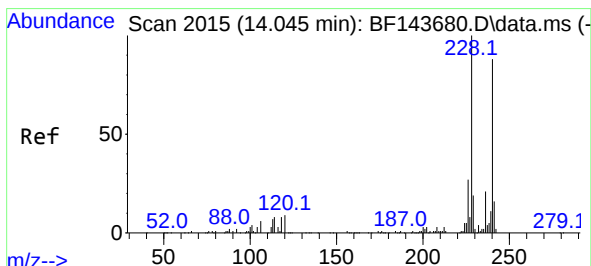
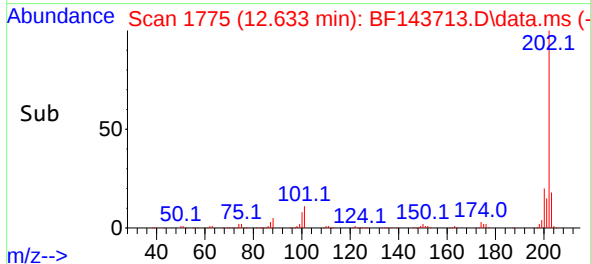
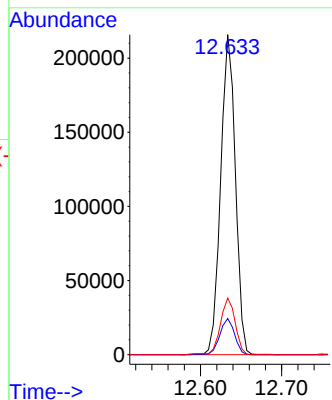
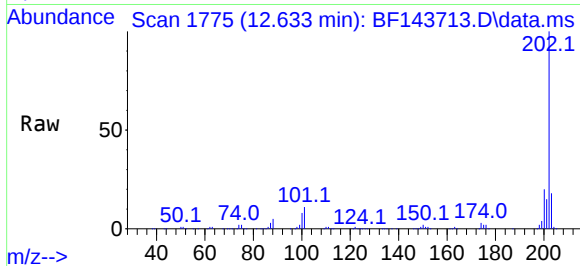




#75
Fluoranthene
Concen: 53.175 ng
RT: 12.633 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

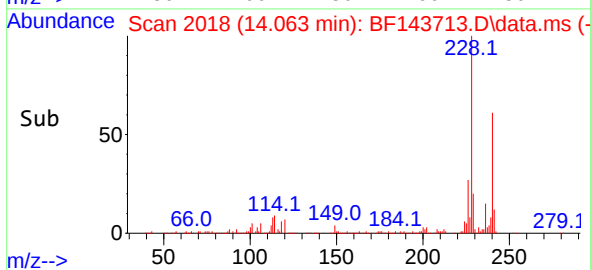
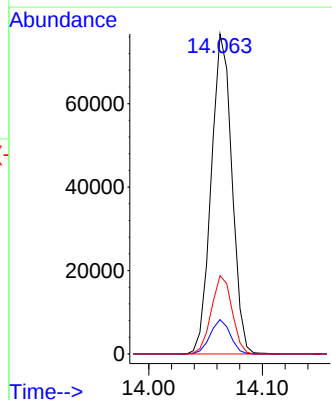
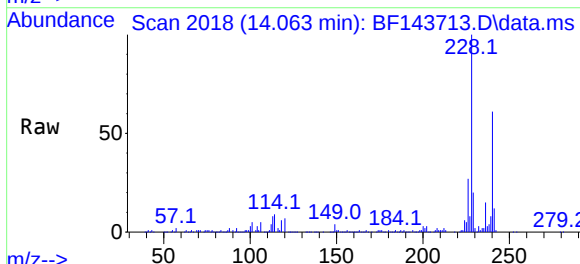
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

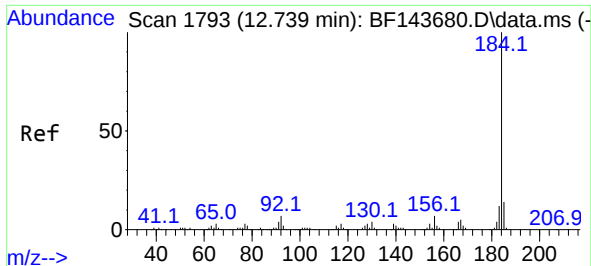
Tgt Ion:202 Resp: 272585
Ion Ratio Lower Upper
202 100
101 11.3 0.0 30.5
203 17.7 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. 0.018 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

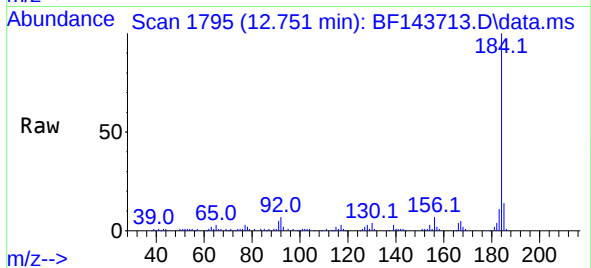
Tgt Ion:240 Resp: 96866
Ion Ratio Lower Upper
240 100
120 10.7 8.4 12.6
236 24.5 18.6 28.0



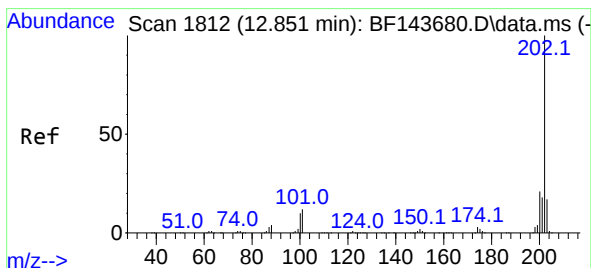
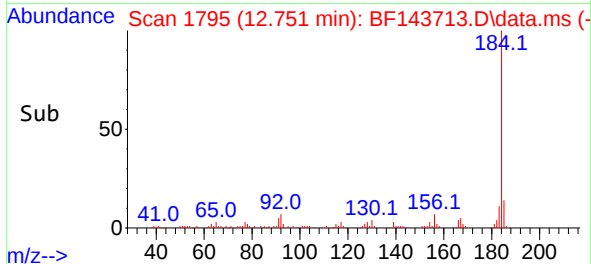
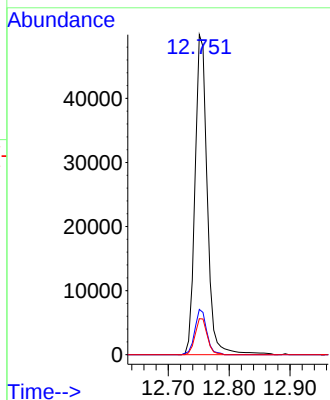


#77
Benzidine
Concen: 21.976 ng
RT: 12.751 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

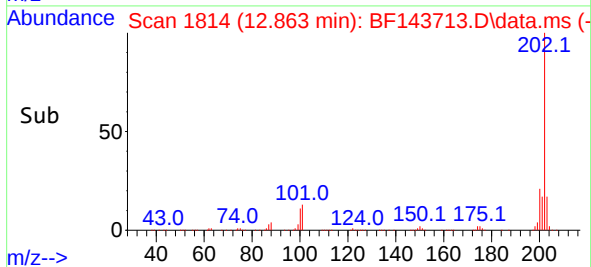
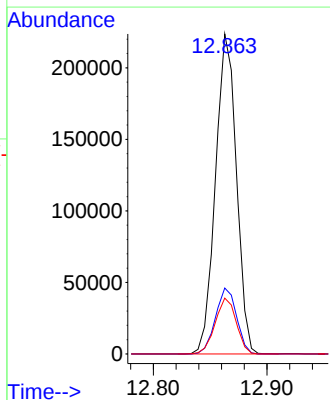
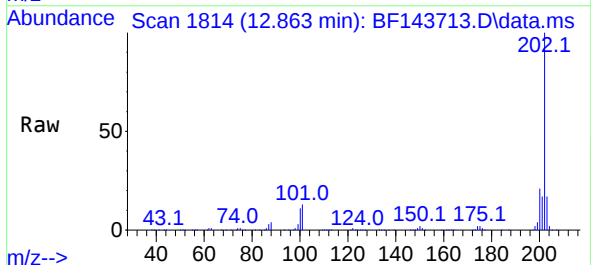


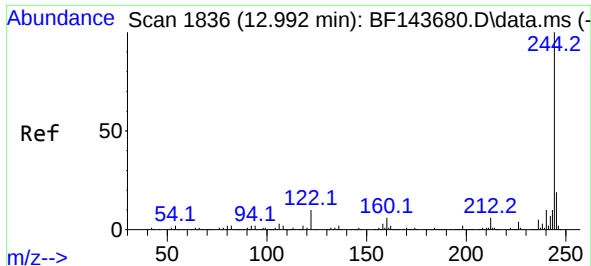
Tgt Ion:184 Resp: 69418
Ion Ratio Lower Upper
184 100
185 14.2 11.5 17.3
183 11.3 9.4 14.2



#78
Pyrene
Concen: 37.041 ng
RT: 12.863 min Scan# 1814
Delta R.T. 0.012 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:202 Resp: 286873
Ion Ratio Lower Upper
202 100
200 20.6 16.6 24.8
203 17.4 13.5 20.3

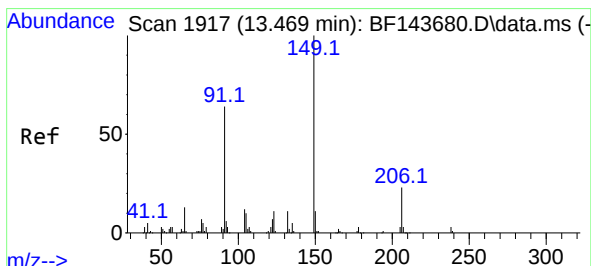
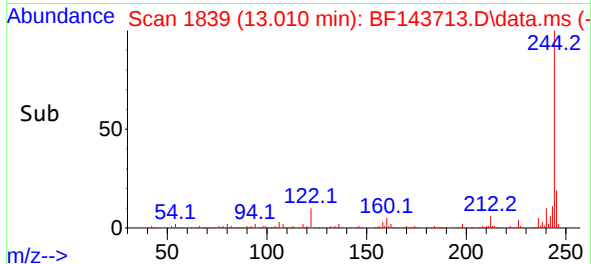
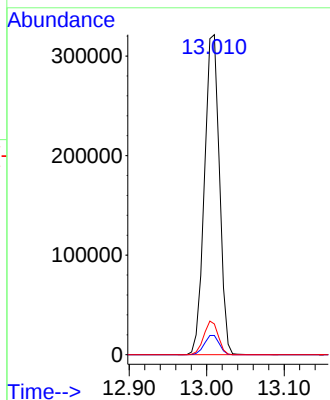
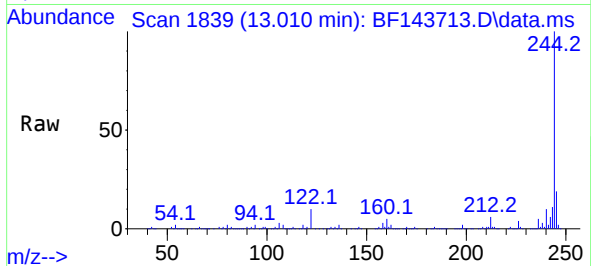




#79
 Terphenyl-d14
 Concen: 71.971 ng
 RT: 13.010 min Scan# 1839
 Delta R.T. 0.018 min
 Lab File: BF143713.D
 Acq: 11 Sep 2025 18:29

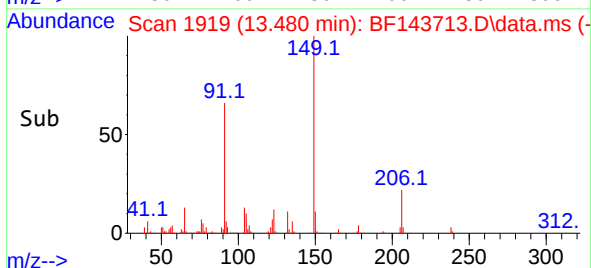
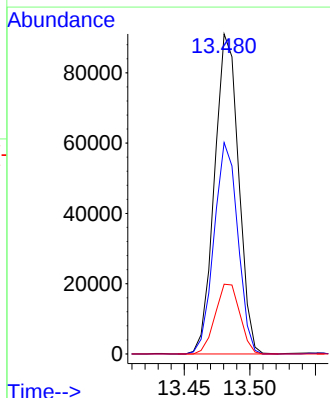
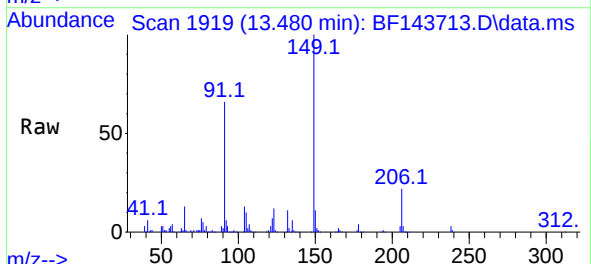
Instrument :
 BNA_F
 ClientSampleId :
 SOIL-PILE-1MSD

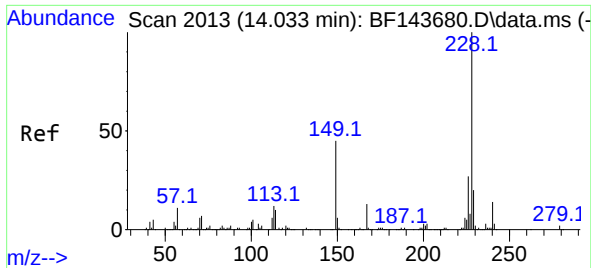
Tgt Ion:244 Resp: 430205
 Ion Ratio Lower Upper
 244 100
 212 6.0 5.0 7.6
 122 9.6 7.9 11.9



#80
 Butylbenzylphthalate
 Concen: 47.827 ng
 RT: 13.480 min Scan# 1919
 Delta R.T. 0.012 min
 Lab File: BF143713.D
 Acq: 11 Sep 2025 18:29

Tgt Ion:149 Resp: 116057
 Ion Ratio Lower Upper
 149 100
 91 66.0 50.9 76.3
 206 21.8 18.2 27.2

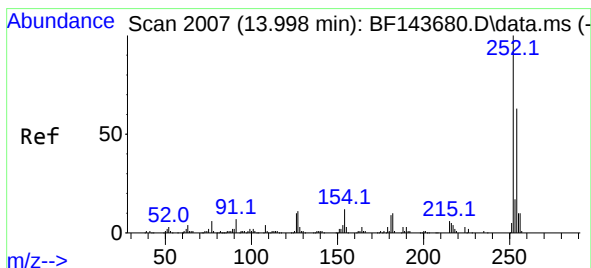
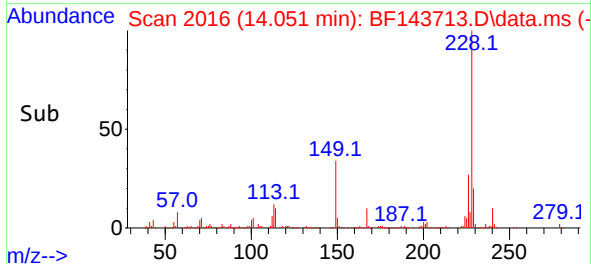
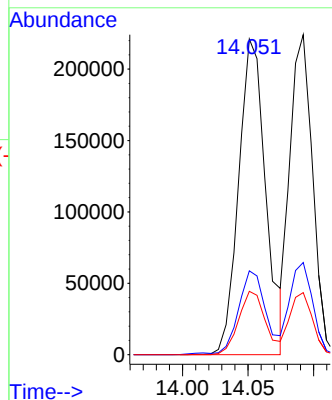
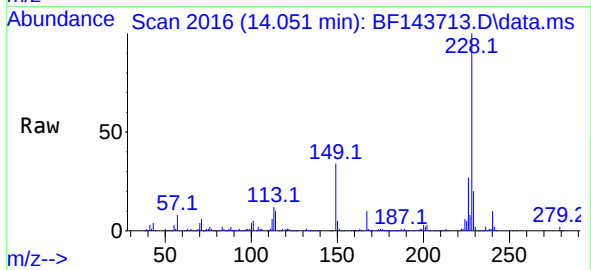




#81
Benzo(a)anthracene
Concen: 51.163 ng
RT: 14.051 min Scan# 2010
Delta R.T. 0.018 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

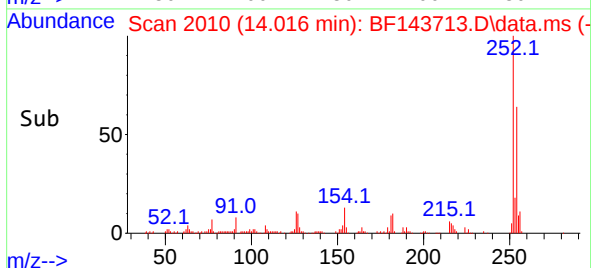
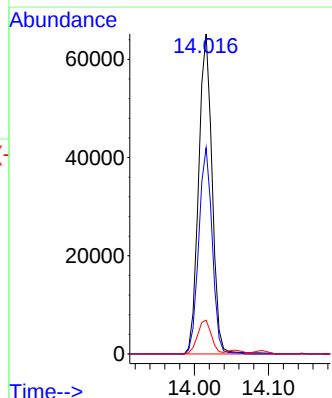
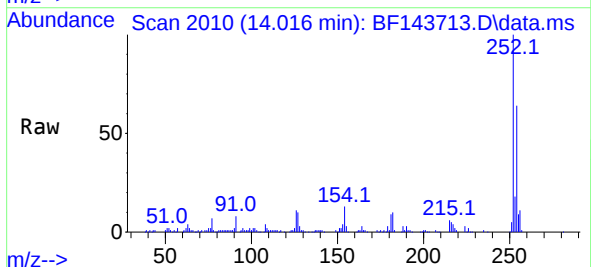
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

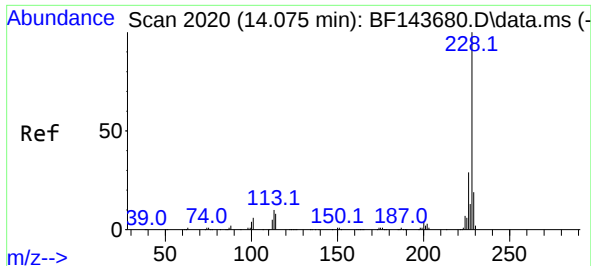
Tgt Ion:228 Resp: 318835
Ion Ratio Lower Upper
228 100
226 26.5 21.6 32.4
229 20.1 15.7 23.5



#82
3,3'-Dichlorobenzidine
Concen: 43.024 ng
RT: 14.016 min Scan# 2010
Delta R.T. 0.018 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:252 Resp: 82485
Ion Ratio Lower Upper
252 100
254 64.5 50.5 75.7
126 10.6 8.2 12.4

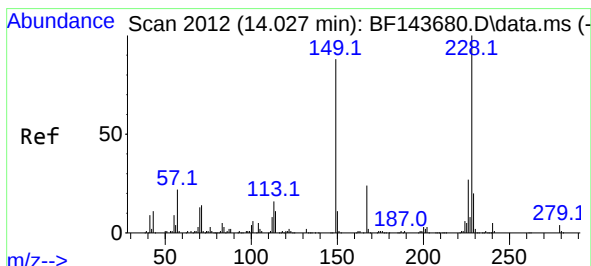
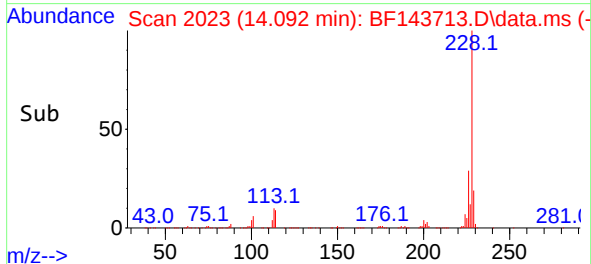
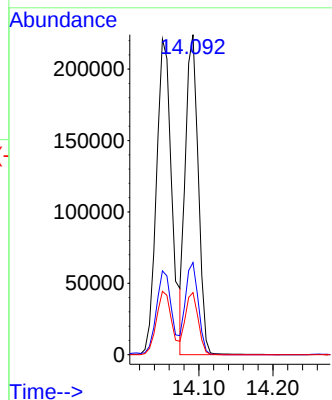
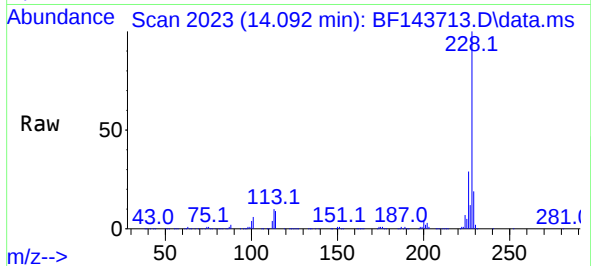




#83
Chrysene
Concen: 47.200 ng
RT: 14.092 min Scan# 2015
Delta R.T. 0.018 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

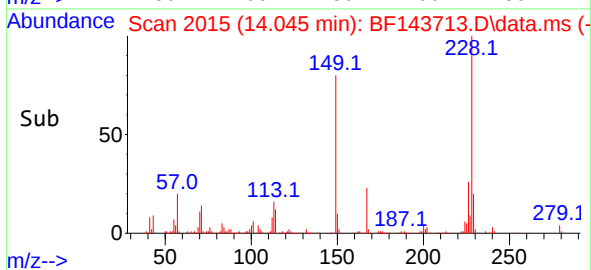
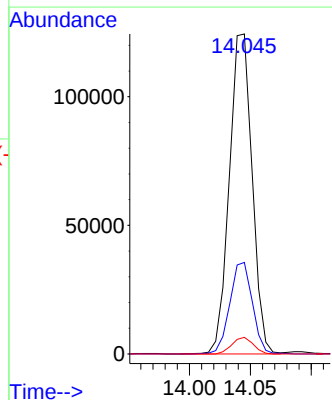
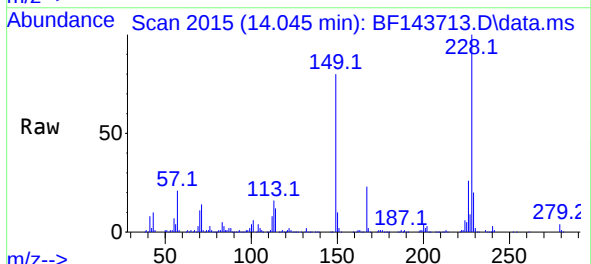
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

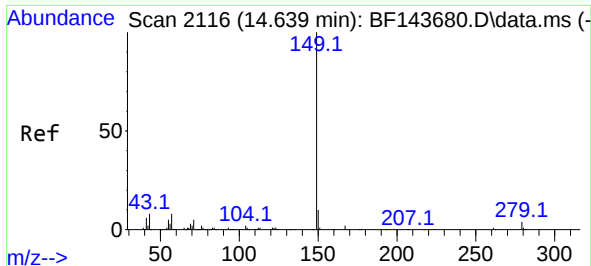
Tgt Ion:228 Resp: 269392
Ion Ratio Lower Upper
228 100
226 28.8 22.7 34.1
229 19.4 15.1 22.7



#84
Bis(2-ethylhexyl)phthalate
Concen: 46.938 ng
RT: 14.045 min Scan# 2015
Delta R.T. 0.018 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:149 Resp: 162515
Ion Ratio Lower Upper
149 100
167 28.6 22.2 33.2
279 5.2 3.5 5.3

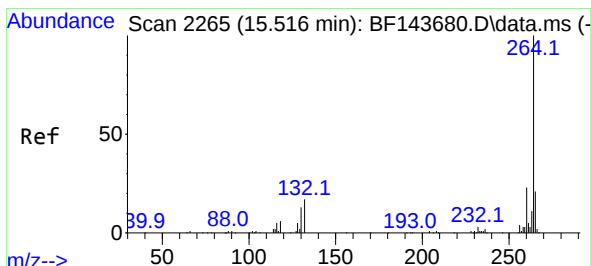
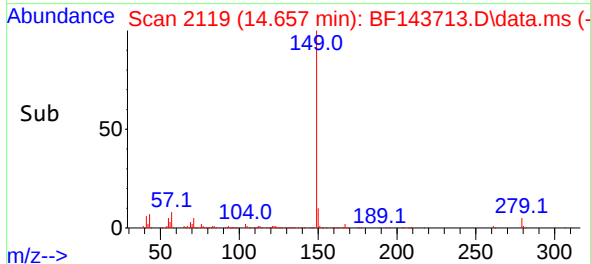
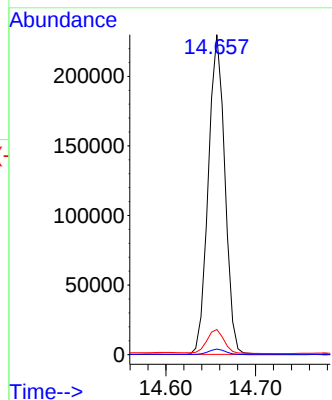
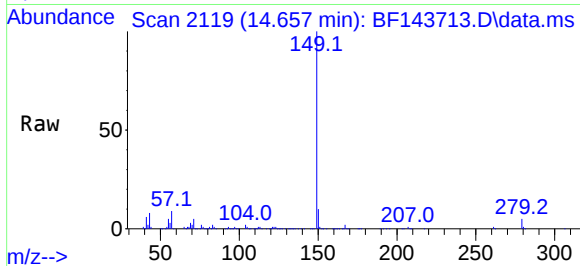




#85
Di-n-octyl phthalate
Concen: 47.430 ng
RT: 14.657 min Scan# 2116
Delta R.T. 0.018 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

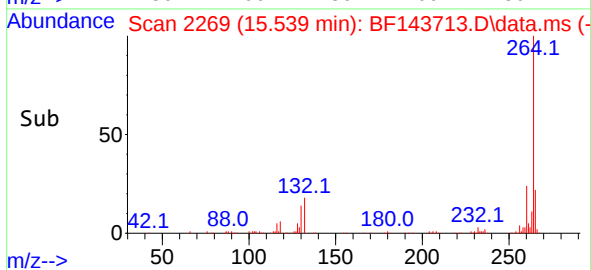
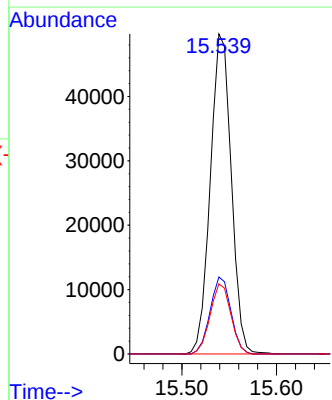
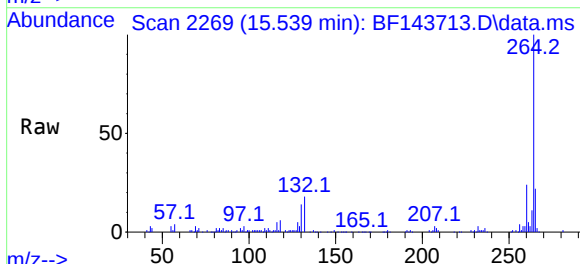
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

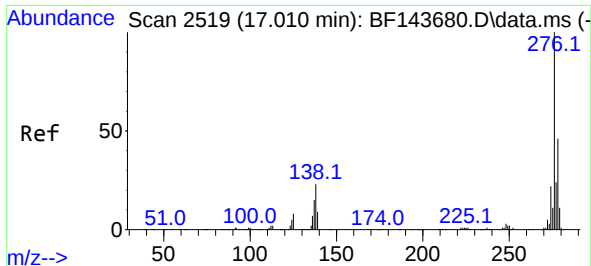
Tgt Ion:149 Resp: 294275
Ion Ratio Lower Upper
149 100
167 1.9 1.2 1.8#
43 8.0 6.2 9.2



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. 0.024 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:264 Resp: 76435
Ion Ratio Lower Upper
264 100
260 24.0 18.4 27.6
265 21.9 17.1 25.7

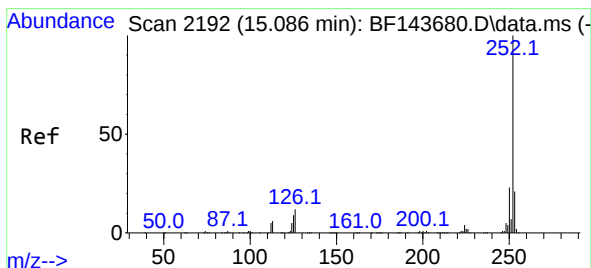
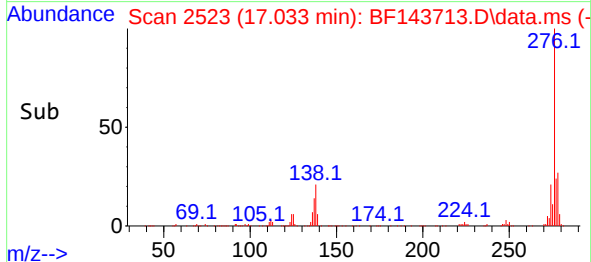
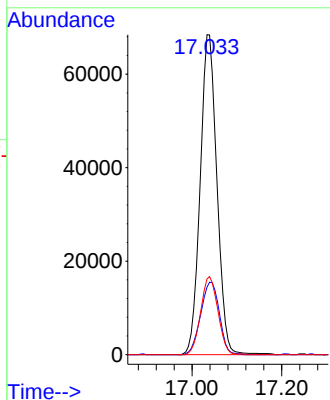
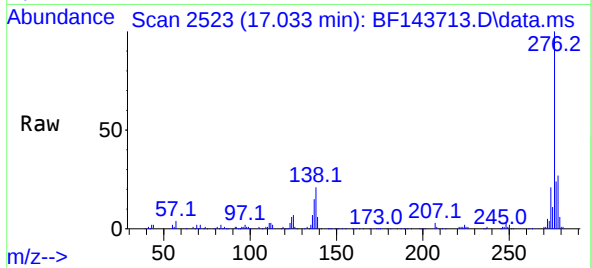




#87
Indeno(1,2,3-cd)pyrene
Concen: 33.979 ng
RT: 17.033 min Scan# 2196
Delta R.T. 0.024 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

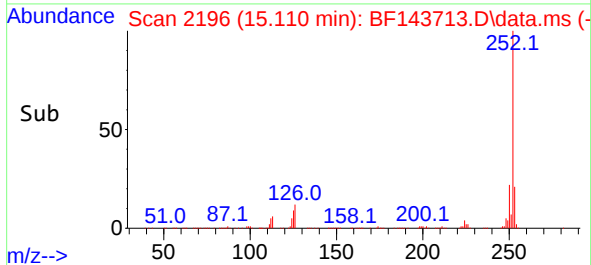
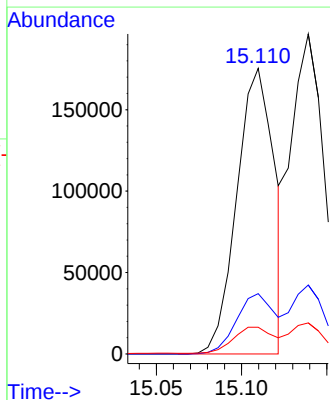
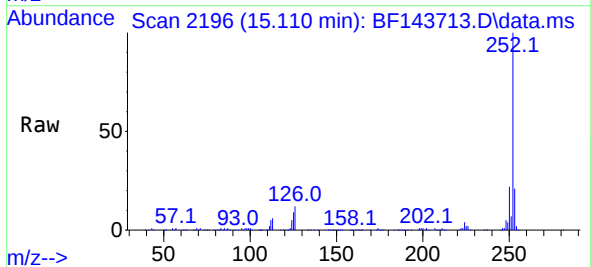
Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

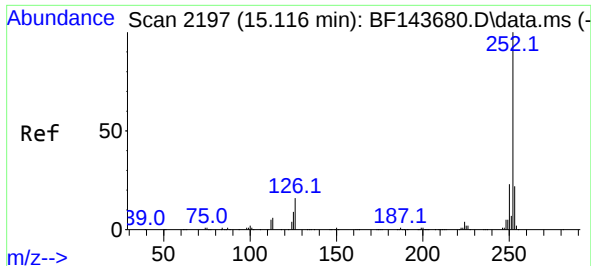
Tgt Ion:276 Resp: 177255
Ion Ratio Lower Upper
276 100
138 25.2 19.7 29.5
277 25.1 20.2 30.2



#88
Benzo(b)fluoranthene
Concen: 58.723 ng
RT: 15.110 min Scan# 2196
Delta R.T. 0.024 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:252 Resp: 267193
Ion Ratio Lower Upper
252 100
253 21.1 17.0 25.4
125 9.4 7.4 11.0





#89

Benzo(k)fluoranthene

Concen: 64.358 ng

RT: 15.139 min Scan# 2197

Delta R.T. 0.023 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

Instrument :

BNA_F

ClientSampleId :

SOIL-PILE-1MSD

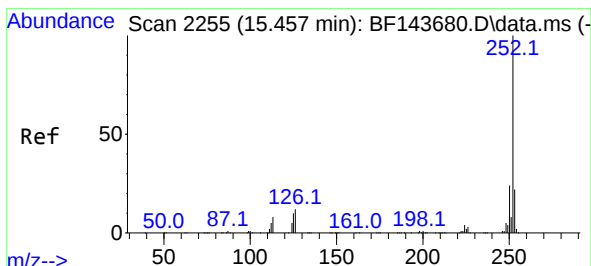
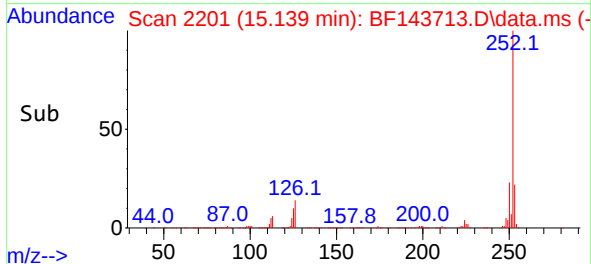
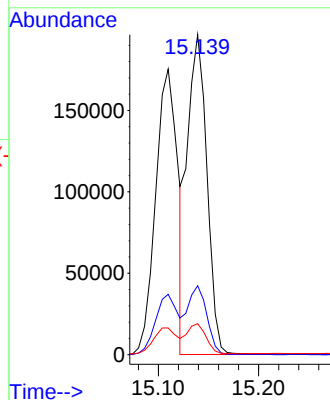
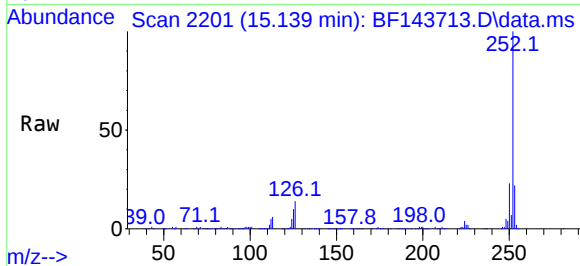
Tgt Ion:252 Resp: 264281

Ion Ratio Lower Upper

252 100

253 21.5 17.3 25.9

125 9.7 7.3 10.9



#90

Benzo(a)pyrene

Concen: 55.454 ng

RT: 15.480 min Scan# 2259

Delta R.T. 0.023 min

Lab File: BF143713.D

Acq: 11 Sep 2025 18:29

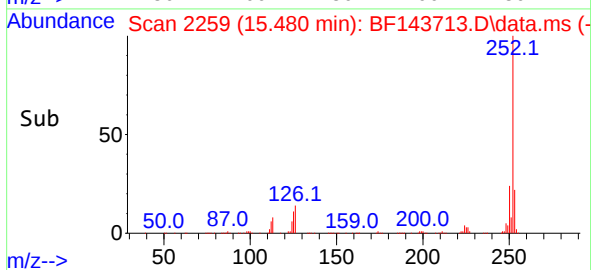
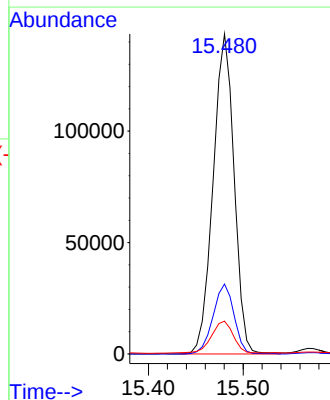
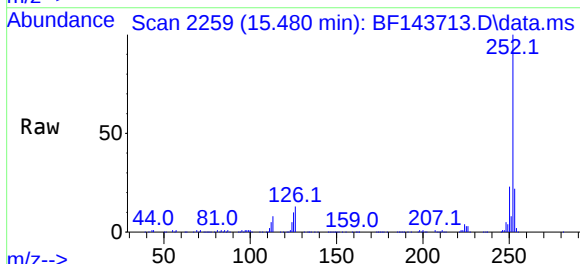
Tgt Ion:252 Resp: 221667

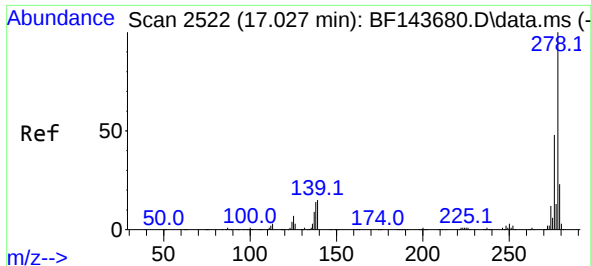
Ion Ratio Lower Upper

252 100

253 21.9 17.4 26.0

125 10.3 8.2 12.4

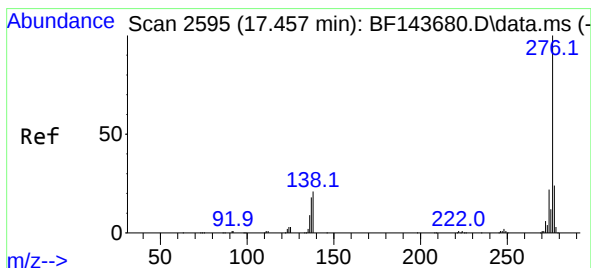
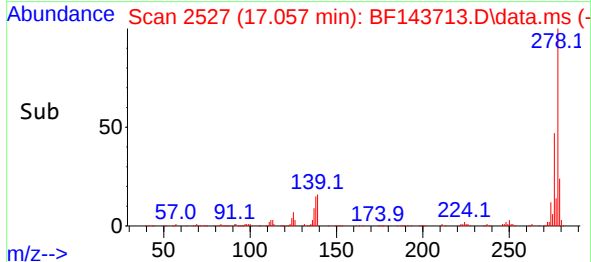
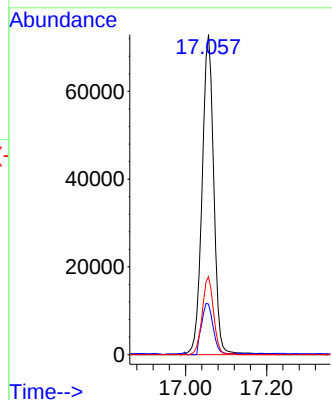
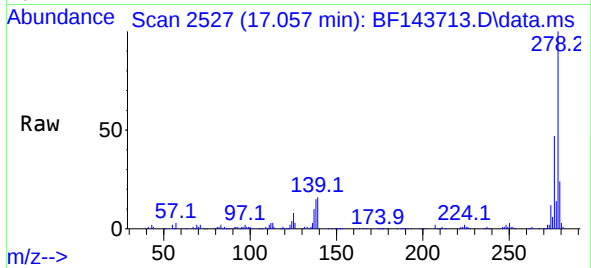




#91
Dibenzo(a,h)anthracene
Concen: 33.857 ng
RT: 17.057 min Scan# 210
Delta R.T. 0.029 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Instrument :
BNA_F
ClientSampleId :
SOIL-PILE-1MSD

Tgt Ion:278 Resp: 146530
Ion Ratio Lower Upper
278 100
139 15.8 12.2 18.4
279 24.3 18.7 28.1



#92
Benzo(g,h,i)perylene
Concen: 33.631 ng
RT: 17.486 min Scan# 2600
Delta R.T. 0.029 min
Lab File: BF143713.D
Acq: 11 Sep 2025 18:29

Tgt Ion:276 Resp: 136145
Ion Ratio Lower Upper
276 100
277 23.6 19.2 28.8
138 21.7 17.0 25.4

