

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080625\
 Data File : BF143332.D
 Acq On : 06 Aug 2025 16:14
 Operator : RC/JU
 Sample : Q2772-01MSD
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 500-3B-SOILMSD

Quant Time: Aug 06 16:34:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF071725.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 17 15:14:05 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.963	152	84813	20.000	ng	0.00
21) Naphthalene-d8	8.245	136	321139	20.000	ng	0.00
39) Acenaphthene-d10	9.998	164	122845	20.000	ng	0.00
64) Phenanthrene-d10	11.492	188	163350	20.000	ng	# 0.00
76) Chrysene-d12	14.133	240	170194	20.000	ng	0.01
86) Perylene-d12	15.639	264	175230	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.604	112	350111	65.325	ng	0.02
7) Phenol-d6	6.592	99	476535	70.640	ng	0.00
23) Nitrobenzene-d5	7.516	82	318737	49.474	ng	0.00
42) 2,4,6-Tribromophenol	10.792	330	91761	72.306	ng	0.00
45) 2-Fluorobiphenyl	9.316	172	541018	60.231	ng	0.00
79) Terphenyl-d14	13.074	244	413549	36.159	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.869	88	96140	37.910	ng	98
3) Pyridine	3.634	79	254976	38.736	ng	98
4) n-Nitrosodimethylamine	3.569	42	130307	38.343	ng	100
6) Aniline	6.622	93	168218	17.892	ng	# 89
8) 2-Chlorophenol	6.751	128	208642	37.139	ng	97
9) Benzaldehyde	6.510	77	124139	24.541	ng	98
10) Phenol	6.604	94	283482	38.574	ng	97
11) bis(2-Chloroethyl)ether	6.692	93	207468	36.870	ng	99
12) 1,3-Dichlorobenzene	6.904	146	237004	38.835	ng	99
13) 1,4-Dichlorobenzene	6.981	146	229876	37.403	ng	100
14) 1,2-Dichlorobenzene	7.134	146	214419	36.681	ng	99
15) Benzyl Alcohol	7.098	79	183071	35.542	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.234	45	372502	35.687	ng	97
17) 2-Methylphenol	7.210	107	166382	35.223	ng	100
18) Hexachloroethane	7.475	117	87682	41.211	ng	98
19) n-Nitroso-di-n-propyla...	7.369	70	149699	34.588	ng	98
20) 3+4-Methylphenols	7.363	107	204423	35.669	ng	# 68
22) Acetophenone	7.363	105	276287	36.339	ng	95
24) Nitrobenzene	7.539	77	252491	42.037	ng	99
25) Isophorone	7.781	82	429653	37.778	ng	99
26) 2-Nitrophenol	7.857	139	104886	40.236	ng	98
27) 2,4-Dimethylphenol	7.892	122	192360	36.201	ng	100
28) bis(2-Chloroethoxy)met...	7.981	93	239637	35.143	ng	100
29) 2,4-Dichlorophenol	8.098	162	154722	34.528	ng	98
30) 1,2,4-Trichlorobenzene	8.186	180	168709	34.849	ng	100
31) Naphthalene	8.263	128	634098	40.093	ng	100
32) Benzoic acid	7.987	122	84201	30.274	ng	99
33) 4-Chloroaniline	8.304	127	75140	11.635	ng	99
34) Hexachlorobutadiene	8.386	225	112705	38.110	ng	100
35) Caprolactam	8.669	113	51951	38.365	ng	98
36) 4-Chloro-3-methylphenol	8.792	107	165956	34.073	ng	98
37) 2-Methylnaphthalene	8.957	142	347915	36.150	ng	99
38) 1-Methylnaphthalene	9.057	142	339988	34.306	ng	99
40) 1,2,4,5-Tetrachloroben...	9.122	216	162244	45.745	ng	99
41) Hexachlorocyclopentadiene	9.116	237	103142	44.694	ng	99
43) 2,4,6-Trichlorophenol	9.233	196	113318	46.166	ng	98

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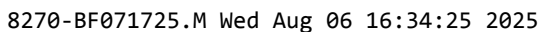
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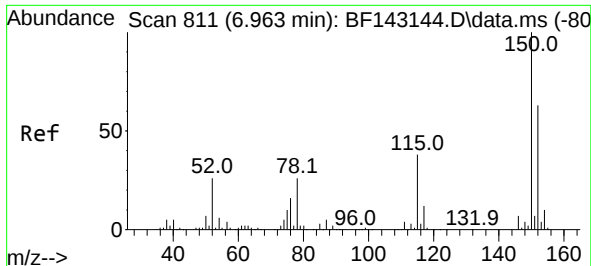
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.275	196	118341	48.197	ng	97
46) 1,1'-Biphenyl	9.416	154	484349	50.535	ng	100
47) 2-Chloronaphthalene	9.445	162	342648	48.317	ng	99
48) 2-Nitroaniline	9.533	65	117740	52.942	ng	99
49) Acenaphthylene	9.863	152	494133	41.578	ng	100
50) Dimethylphthalate	9.716	163	387955	48.450	ng	99
51) 2,6-Dinitrotoluene	9.775	165	73603	45.185	ng	98
52) Acenaphthene	10.033	154	284901	40.559	ng	97
53) 3-Nitroaniline	9.945	138	57621	30.242	ng	95
54) 2,4-Dinitrophenol	10.051	184	25735	38.619	ng	# 2
55) Dibenzofuran	10.204	168	425493	40.799	ng	99
56) 4-Nitrophenol	10.104	139	107357	75.456	ng	94
57) 2,4-Dinitrotoluene	10.180	165	96458	47.198	ng	90
58) Fluorene	10.551	166	301998	38.583	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.328	232	74069	36.417	ng	# 98
60) Diethylphthalate	10.416	149	323894	40.924	ng	99
61) 4-Chlorophenyl-phenyle...	10.539	204	156058	40.041	ng	97
62) 4-Nitroaniline	10.557	138	63001	38.581	ng	96
63) Azobenzene	10.698	77	345407	41.874	ng	97
65) 4,6-Dinitro-2-methylph...	10.592	198	21264	27.444	ng	# 64
66) n-Nitrosodiphenylamine	10.657	169	281057	48.862	ng	99
67) 4-Bromophenyl-phenylether	11.033	248	88887	45.661	ng	96
68) Hexachlorobenzene	11.110	284	82558	40.575	ng	96
69) Atrazine	11.180	200	78344	49.404	ng	94
70) Pentachlorophenol	11.298	266	95105	79.481	ng	99
71) Phenanthrene	11.516	178	363338	41.891	ng	97
72) Anthracene	11.569	178	369600	41.782	ng	98
73) Carbazole	11.722	167	397589	51.473	ng	# 96
74) Di-n-butylphthalate	12.045	149	424129	48.528	ng	97
75) Fluoranthene	12.710	202	450980	56.649	ng	98
77) Benzidine	12.821	184	170064	25.936	ng	97
78) Pyrene	12.939	202	465182	32.026	ng	99
80) Butylbenzylphthalate	13.545	149	203847	45.831	ng	98
81) Benzo(a)anthracene	14.127	228	472812	41.495	ng	100
82) 3,3'-Dichlorobenzidine	14.080	252	81094	21.354	ng	100
83) Chrysene	14.163	228	479812	46.835	ng	100
84) Bis(2-ethylhexyl)phtha...	14.104	149	286576	42.568	ng	99
85) Di-n-octyl phthalate	14.715	149	534925	43.836	ng	100
87) Indeno(1,2,3-cd)pyrene	17.186	276	332659	26.923	ng	99
88) Benzo(b)fluoranthene	15.192	252	464406	43.382	ng	99
89) Benzo(k)fluoranthene	15.221	252	407456	42.654	ng	99
90) Benzo(a)pyrene	15.574	252	396424	40.193	ng	100
91) Dibenzo(a,h)anthracene	17.198	278	274095	27.254	ng	99
92) Benzo(g,h,i)perylene	17.651	276	253504	26.058	ng	98

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

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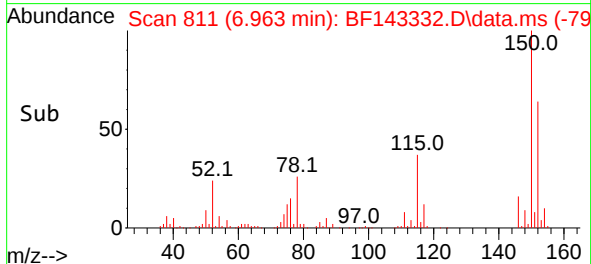
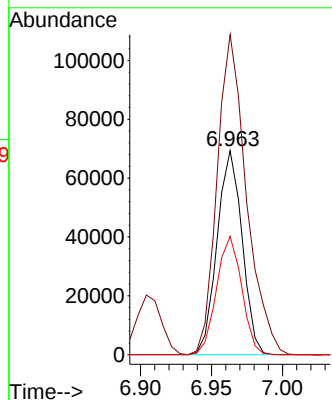
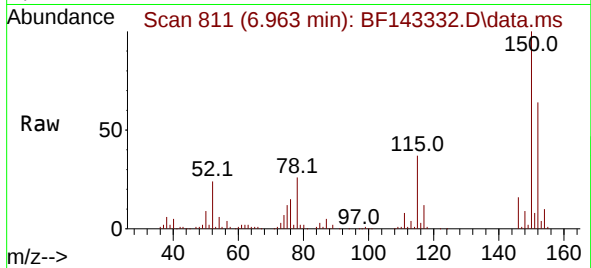




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.963 min Scan# 811
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

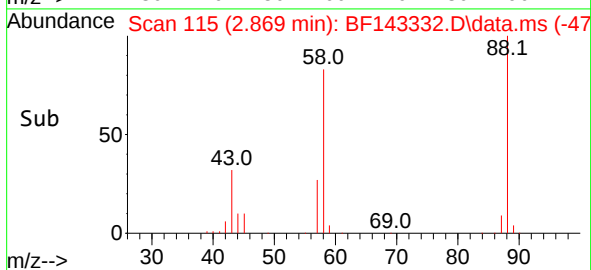
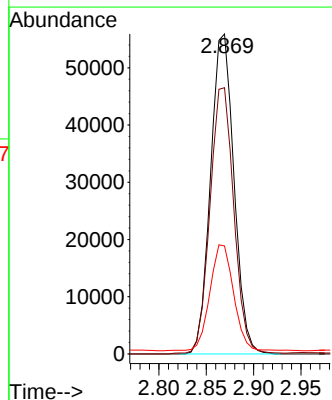
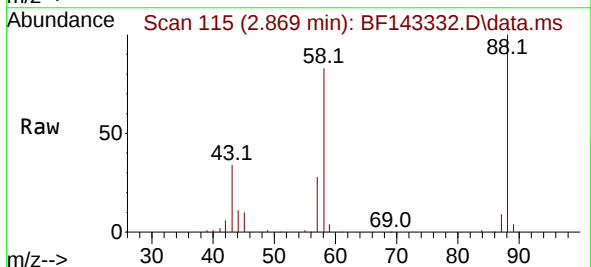
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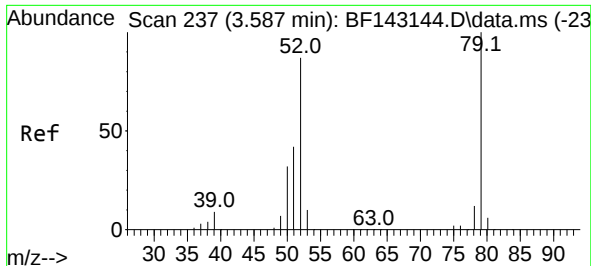
Tgt Ion:152 Resp: 84813
Ion Ratio Lower Upper
152 100
150 156.8 128.2 192.4
115 57.9 47.9 71.9



#2
1,4-Dioxane
Concen: 37.910 ng
RT: 2.869 min Scan# 115
Delta R.T. 0.047 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion: 88 Resp: 96140
Ion Ratio Lower Upper
88 100
58 85.1 70.2 105.2
43 33.7 27.1 40.7





#3

Pyridine

Concen: 38.736 ng

RT: 3.634 min Scan# 24

Delta R.T. 0.047 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

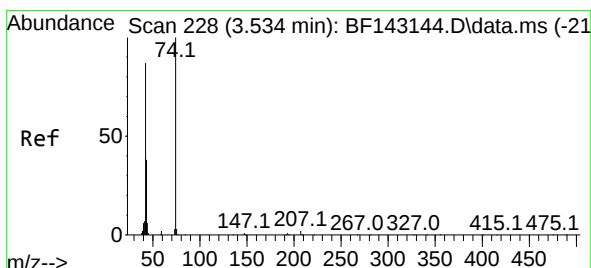
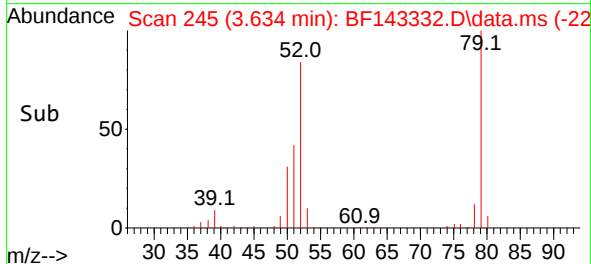
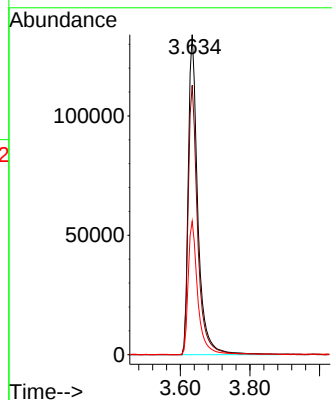
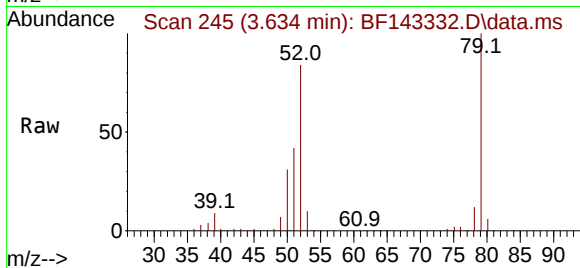
Tgt Ion: 79 Resp: 254976

Ion Ratio Lower Upper

79 100

52 84.2 69.4 104.2

51 41.7 33.5 50.3



#4

n-Nitrosodimethylamine

Concen: 38.343 ng

RT: 3.569 min Scan# 234

Delta R.T. 0.035 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

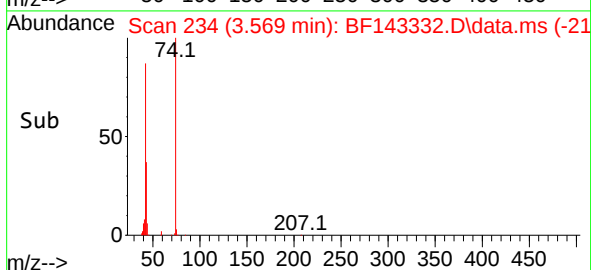
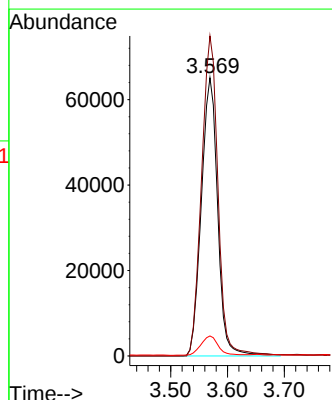
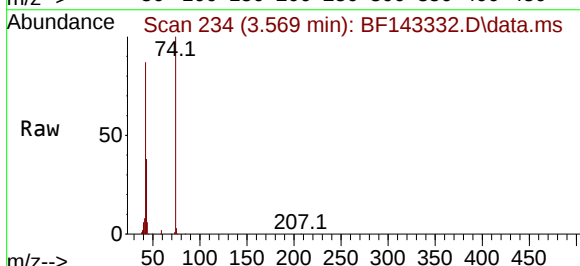
Tgt Ion: 42 Resp: 130307

Ion Ratio Lower Upper

42 100

74 115.0 91.7 137.5

44 7.2 5.6 8.4

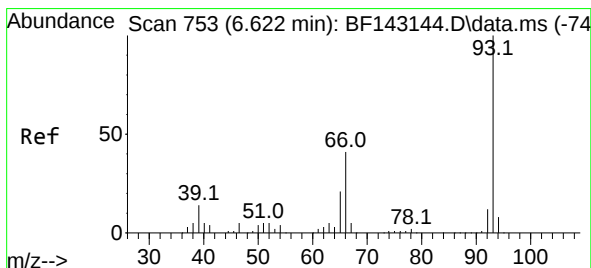
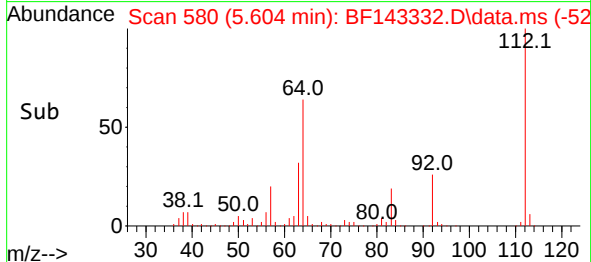
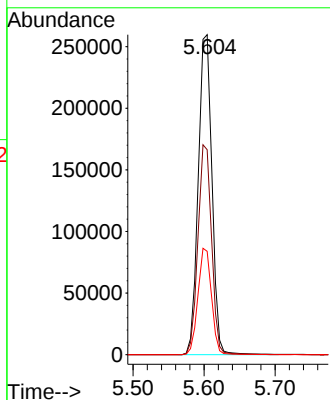
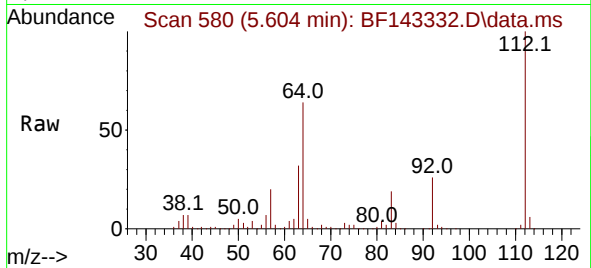




#5
2-Fluorophenol
Concen: 65.325 ng
RT: 5.604 min Scan# 51
Delta R.T. 0.018 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

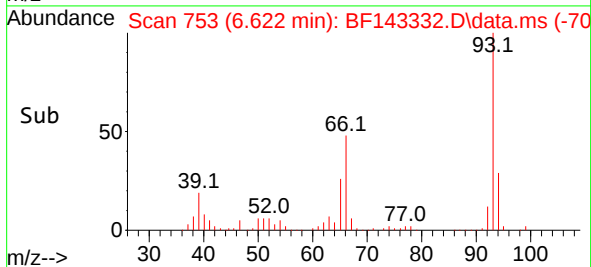
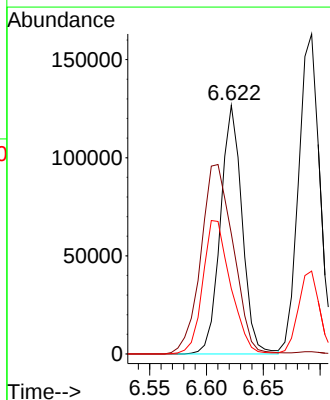
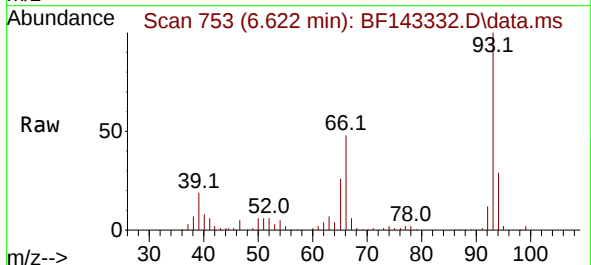
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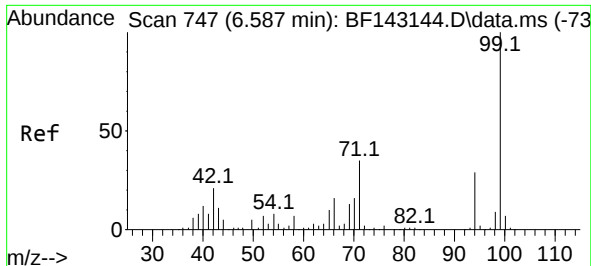
Tgt Ion:112 Resp: 350111
Ion Ratio Lower Upper
112 100
64 64.1 53.1 79.7
63 32.3 26.6 40.0



#6
Aniline
Concen: 17.892 ng
RT: 6.622 min Scan# 753
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion: 93 Resp: 168218
Ion Ratio Lower Upper
93 100
66 48.4 33.2 49.8
65 26.2 16.9 25.3#

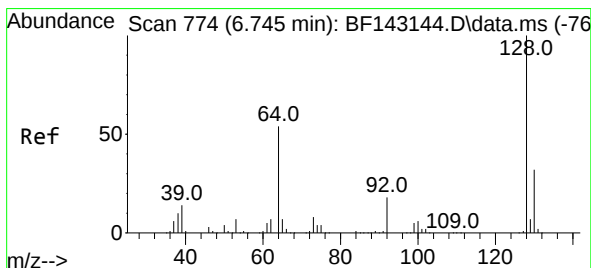
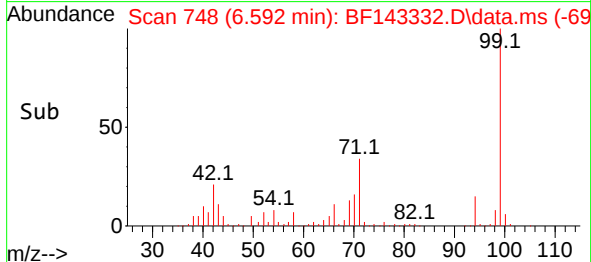
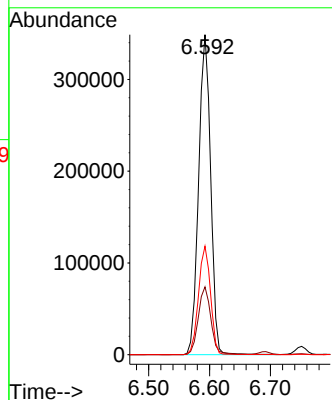
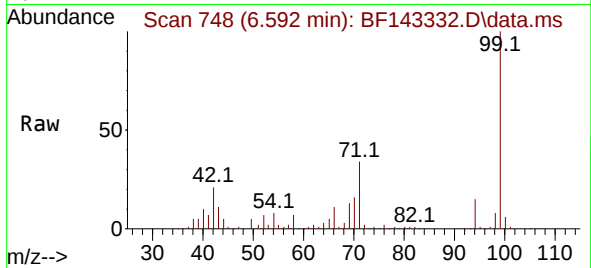




#7
Phenol-d6
Concen: 70.640 ng
RT: 6.592 min Scan# 747
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

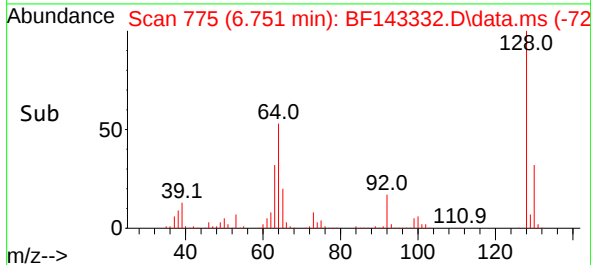
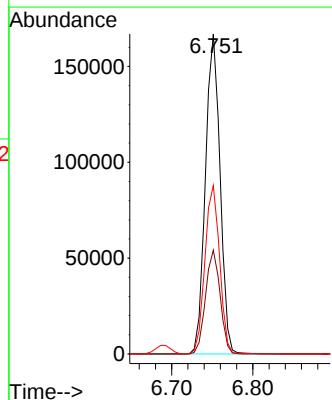
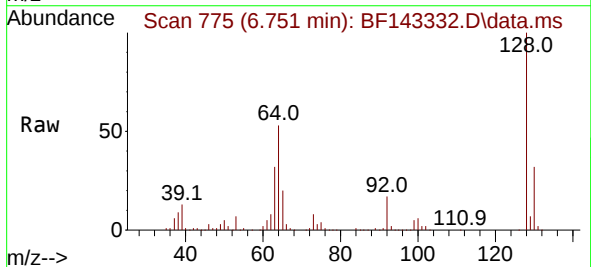
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Tgt Ion: 99 Resp: 476535
Ion Ratio Lower Upper
99 100
42 21.2 17.0 25.6
71 33.9 27.7 41.5



#8
2-Chlorophenol
Concen: 37.139 ng
RT: 6.751 min Scan# 775
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion: 128 Resp: 208642
Ion Ratio Lower Upper
128 100
130 32.4 12.3 52.3
64 52.6 35.9 75.9

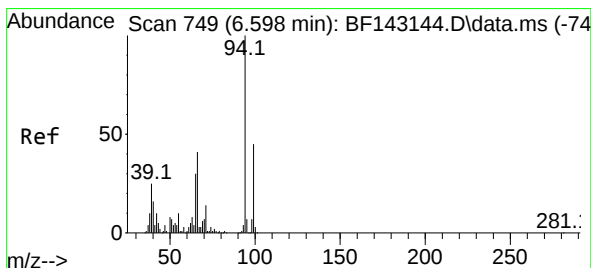
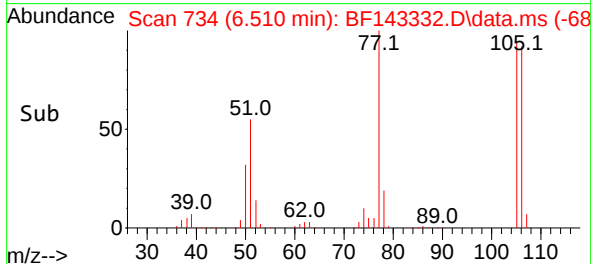
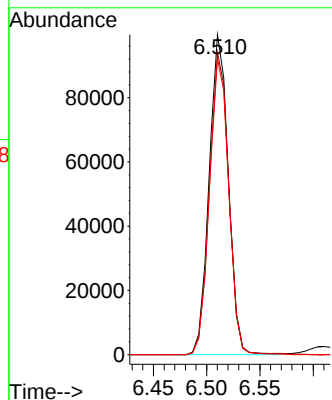
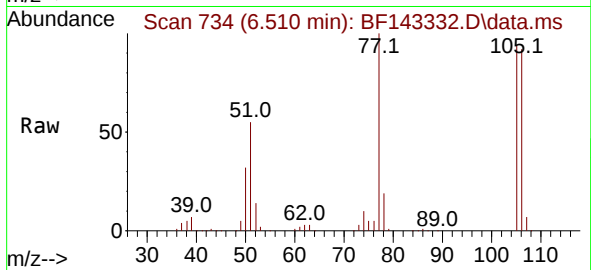




#9
Benzaldehyde
Concen: 24.541 ng
RT: 6.510 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

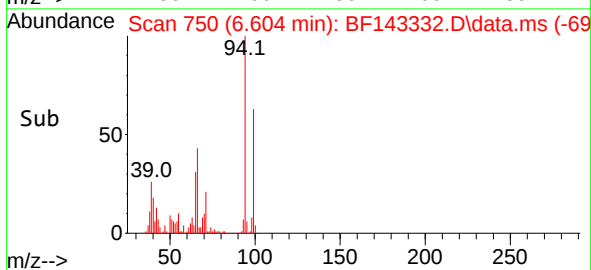
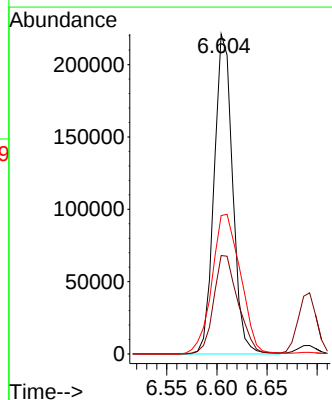
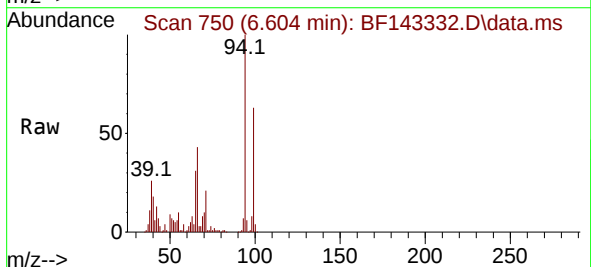
Instrument :
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ClientSampleId :
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Tgt Ion: 77 Resp: 124139
Ion Ratio Lower Upper
77 100
105 94.4 76.8 116.8
106 92.5 74.4 114.4



#10
Phenol
Concen: 38.574 ng
RT: 6.604 min Scan# 750
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion: 94 Resp: 283482
Ion Ratio Lower Upper
94 100
65 30.7 10.0 50.0
66 43.3 20.8 60.8





#11

bis(2-Chloroethyl)ether

Concen: 36.870 ng

RT: 6.692 min Scan# 765

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

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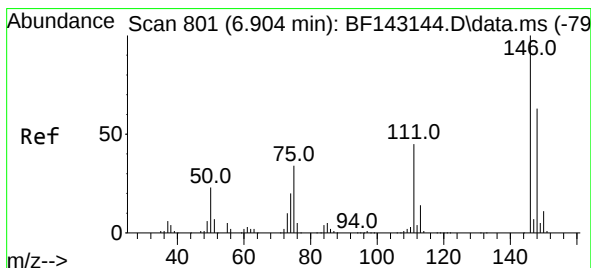
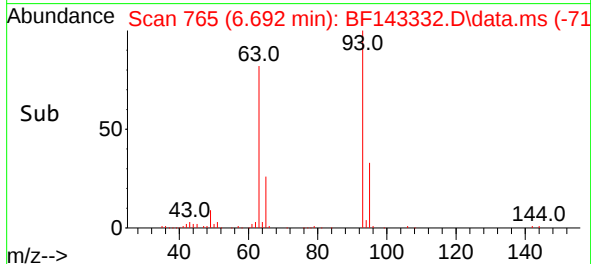
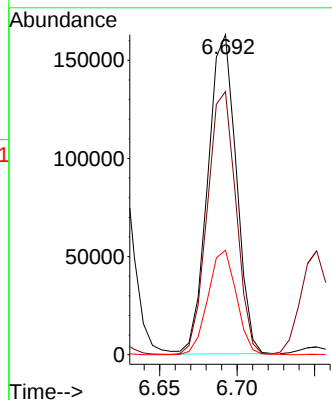
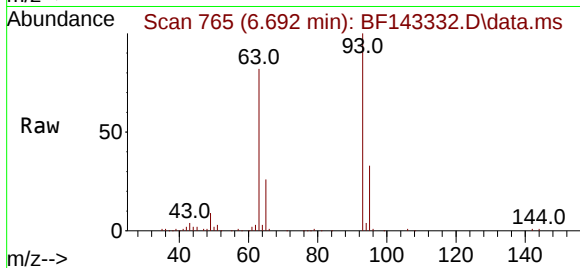
Tgt Ion: 93 Resp: 207468

Ion Ratio Lower Upper

93 100

63 82.2 63.4 103.4

95 32.6 12.4 52.4



#12

1,3-Dichlorobenzene

Concen: 38.835 ng

RT: 6.904 min Scan# 801

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

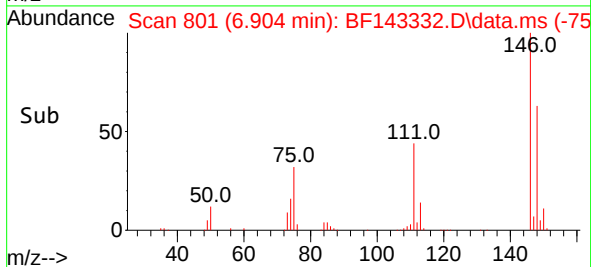
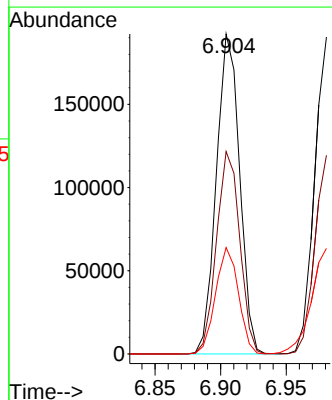
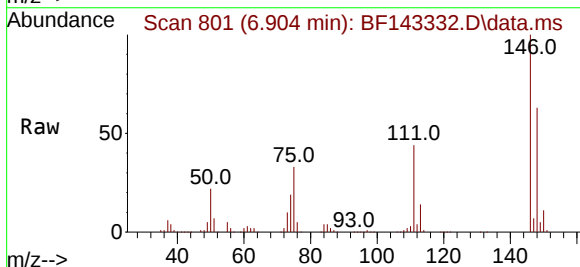
Tgt Ion: 146 Resp: 237004

Ion Ratio Lower Upper

146 100

148 63.2 50.6 76.0

75 33.3 27.4 41.2





#13

1,4-Dichlorobenzene

Concen: 37.403 ng

RT: 6.981 min Scan# 814

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

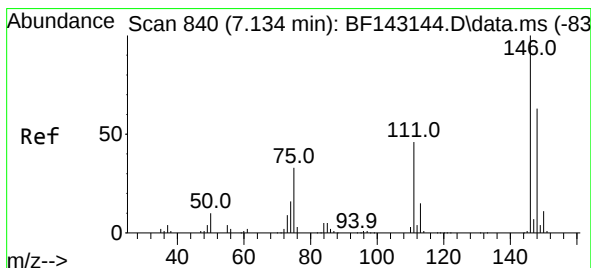
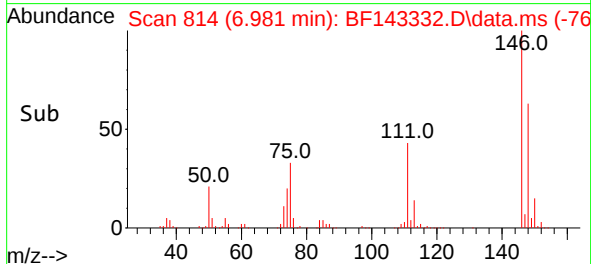
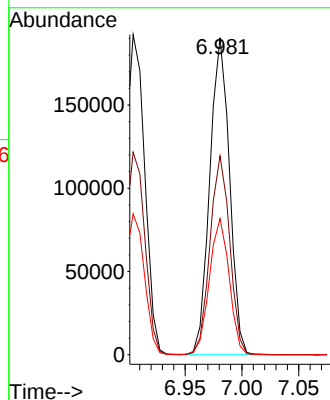
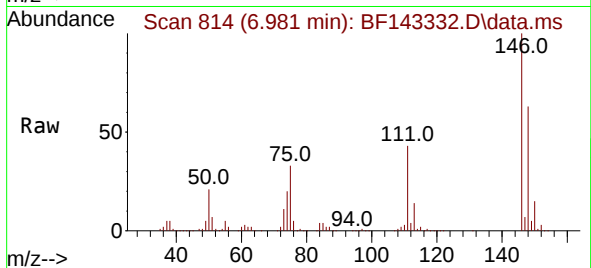
Tgt Ion:146 Resp: 229876

Ion Ratio Lower Upper

146 100

148 62.7 50.3 75.5

111 42.9 34.4 51.6



#14

1,2-Dichlorobenzene

Concen: 36.681 ng

RT: 7.134 min Scan# 840

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

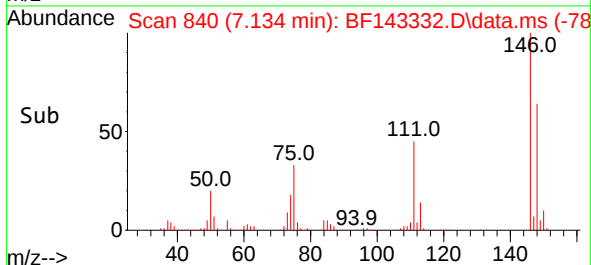
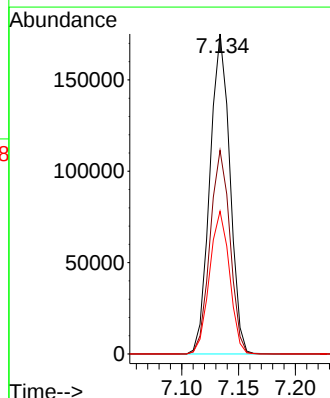
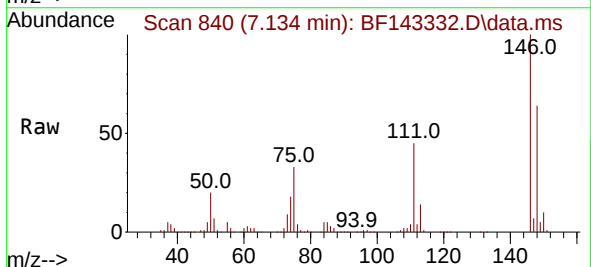
Tgt Ion:146 Resp: 214419

Ion Ratio Lower Upper

146 100

148 63.7 50.7 76.1

111 44.6 36.6 54.8

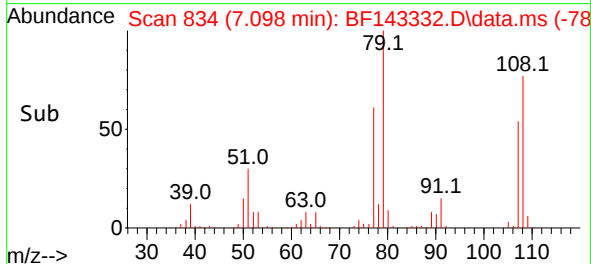
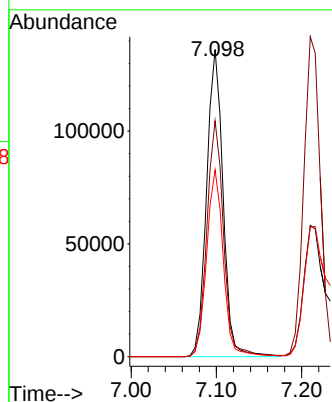
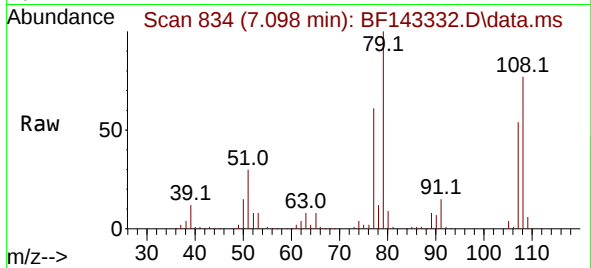




#15
Benzyl Alcohol
Concen: 35.542 ng
RT: 7.098 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

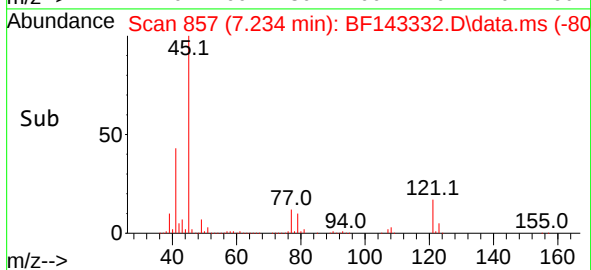
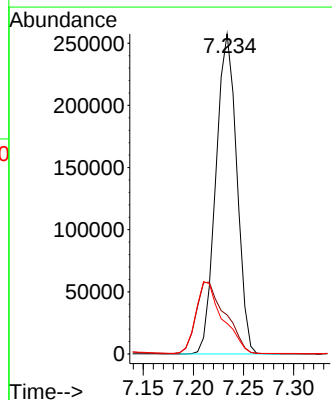
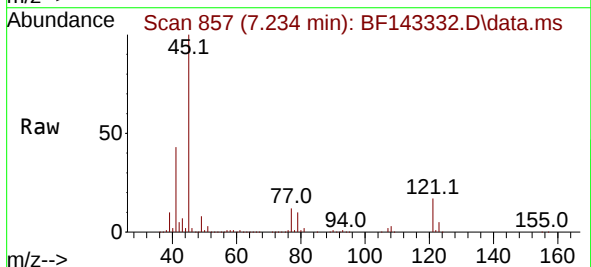
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

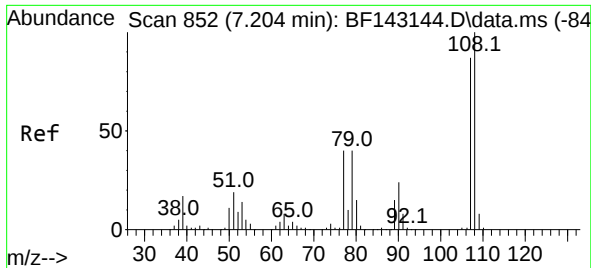
Tgt Ion: 79 Resp: 183071
Ion Ratio Lower Upper
79 100
108 76.8 61.1 91.7
77 60.8 48.9 73.3



#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.687 ng
RT: 7.234 min Scan# 857
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion: 45 Resp: 372502
Ion Ratio Lower Upper
45 100
77 12.2 0.0 31.2
79 9.5 0.0 28.5

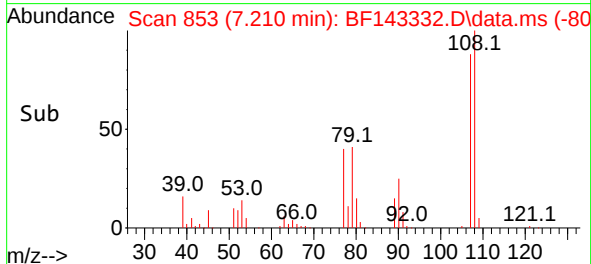
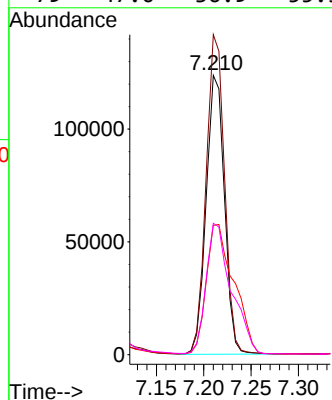
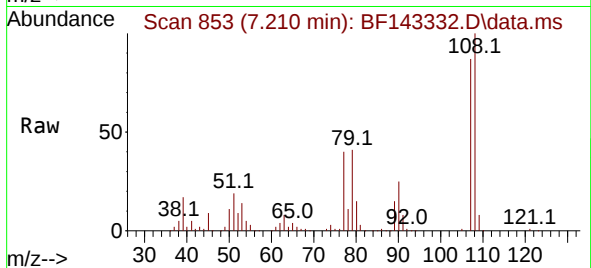




#17
2-Methylphenol
Concen: 35.223 ng
RT: 7.210 min Scan# 81
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

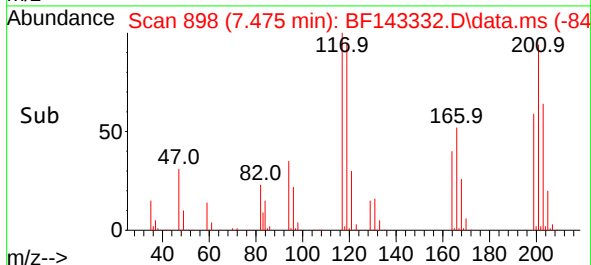
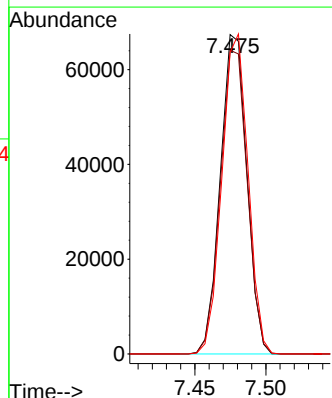
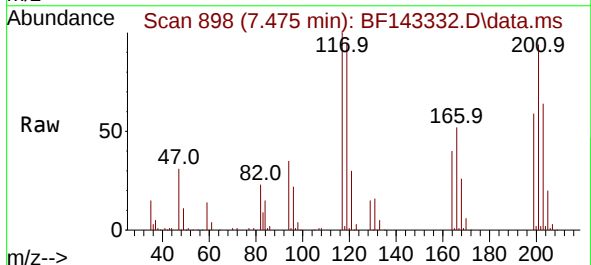
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

Tgt Ion:	107	Resp:	166382
Ion	Ratio	Lower	Upper
107	100		
108	114.5	91.8	137.6
77	46.3	37.0	55.6
79	47.0	36.9	55.3



#18
Hexachloroethane
Concen: 41.211 ng
RT: 7.475 min Scan# 898
Delta R.T. -0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:	117	Resp:	87682
Ion	Ratio	Lower	Upper
117	100		
119	95.1	77.8	116.8
201	94.5	77.0	115.4

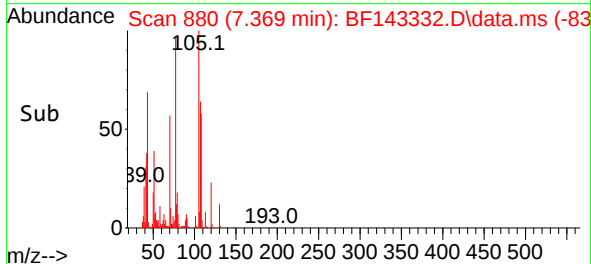
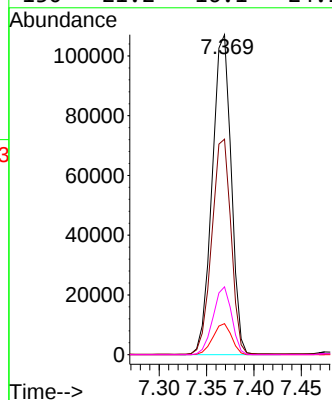
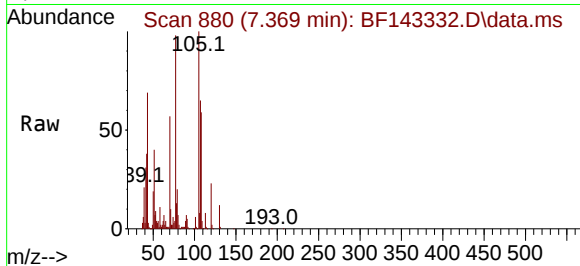




#19
n-Nitroso-di-n-propylamine
Concen: 34.588 ng
RT: 7.369 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

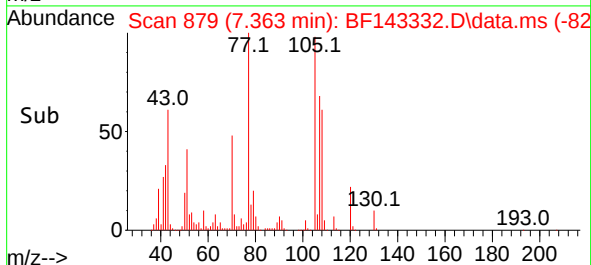
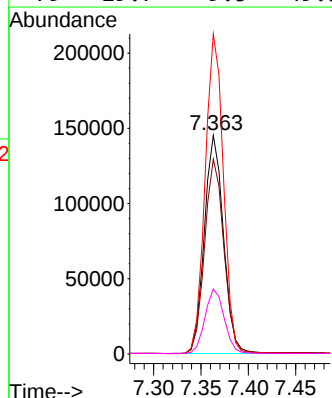
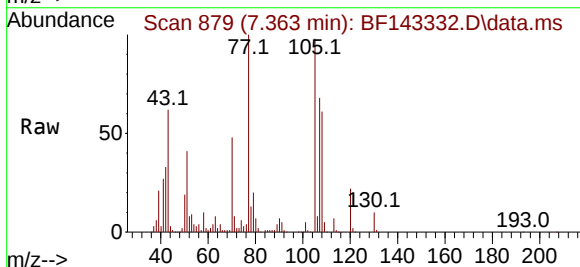
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

Tgt Ion:	70	Resp:	149699
Ion	Ratio	Lower	Upper
70	100		
42	67.3	52.5	78.7
101	9.7	7.6	11.4
130	21.2	16.1	24.1



#20
3+4-Methylphenols
Concen: 35.669 ng
RT: 7.363 min Scan# 879
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:	107	Resp:	204423
Ion	Ratio	Lower	Upper
107	100		
108	89.2	70.0	110.0
77	146.4	57.8	97.8#
79	29.7	9.5	49.5



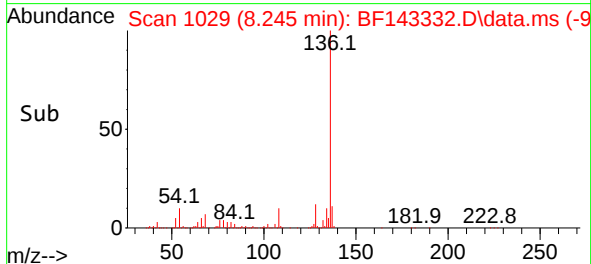
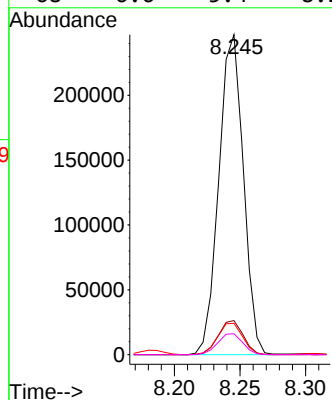
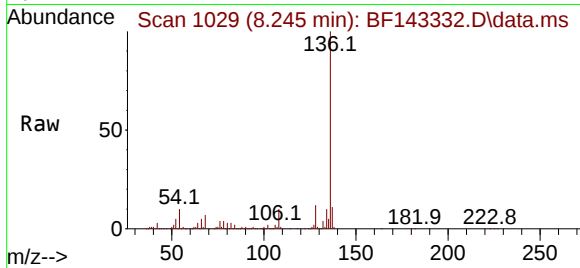


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.245 min Scan# 1029
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

Tgt Ion:136 Resp: 321139

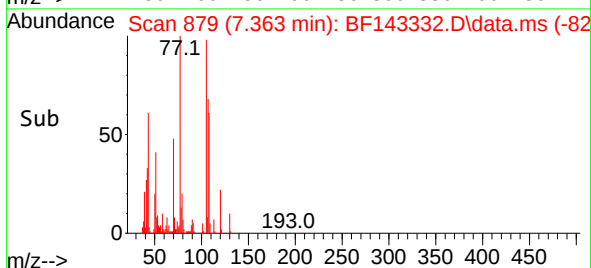
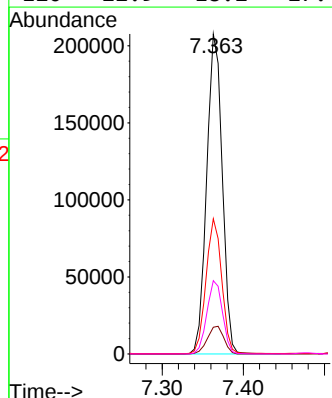
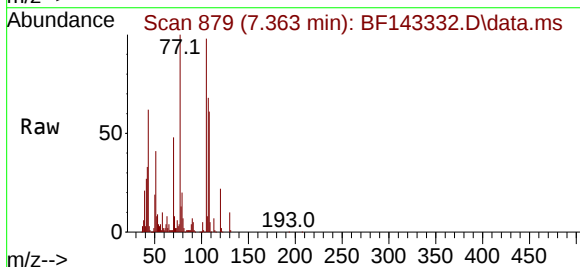
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	9.8	8.2	12.2
68	6.6	5.4	8.2



#22
Acetophenone
Concen: 36.339 ng
RT: 7.363 min Scan# 879
Delta R.T. -0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:105 Resp: 276287

Ion	Ratio	Lower	Upper
105	100		
71	8.4	5.8	8.6
51	42.3	30.2	45.2
120	22.9	18.2	27.4





#23

Nitrobenzene-d5

Concen: 49.474 ng

RT: 7.516 min Scan# 905

Delta R.T. -0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

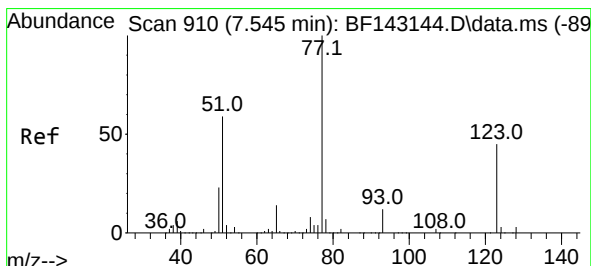
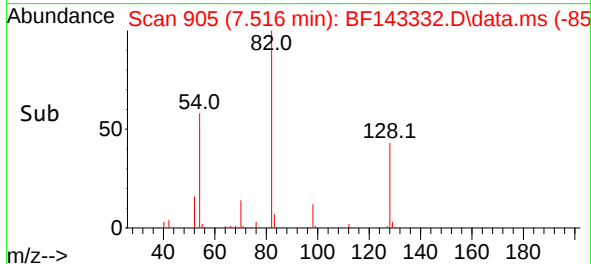
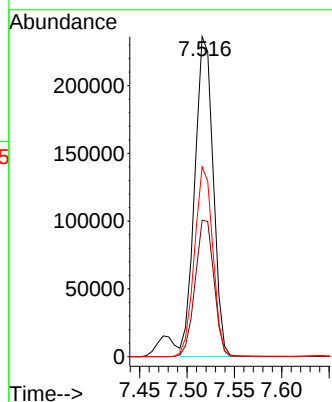
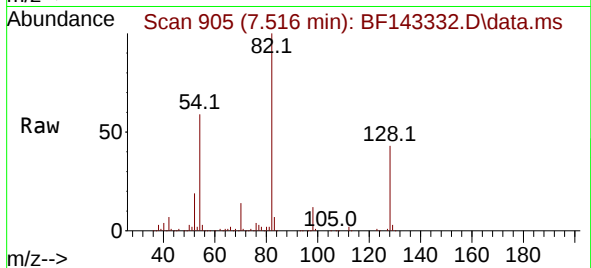
Tgt Ion: 82 Resp: 318737

Ion Ratio Lower Upper

82 100

128 42.6 33.6 50.4

54 59.3 47.1 70.7



#24

Nitrobenzene

Concen: 42.037 ng

RT: 7.539 min Scan# 909

Delta R.T. -0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

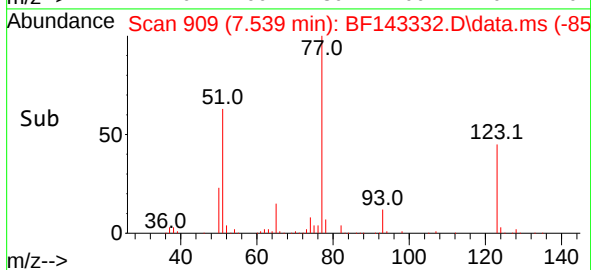
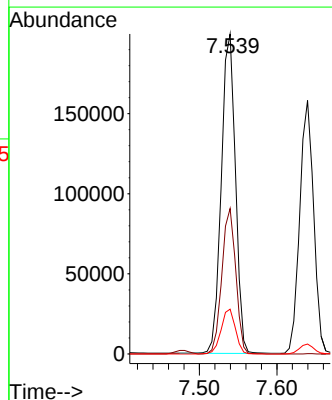
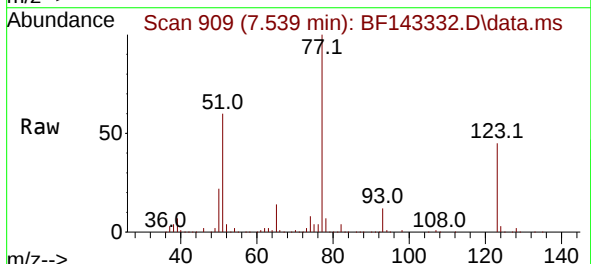
Tgt Ion: 77 Resp: 252491

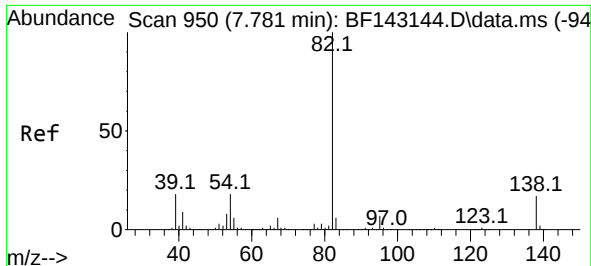
Ion Ratio Lower Upper

77 100

123 45.5 36.1 54.1

65 14.0 11.4 17.2

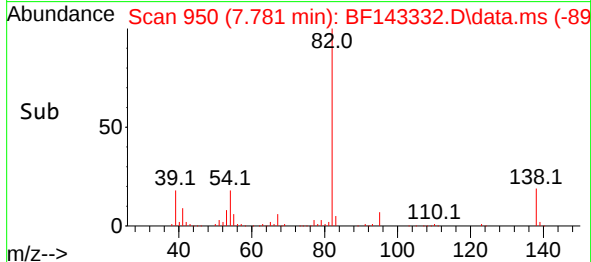
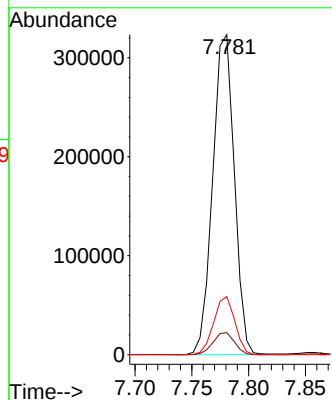
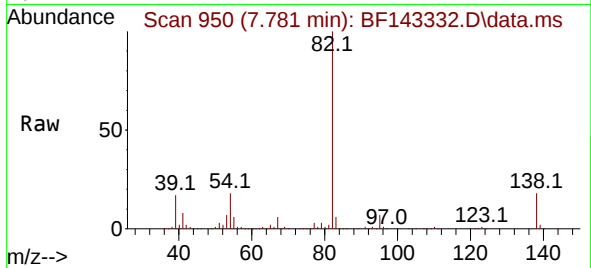




#25
Isophorone
Concen: 37.778 ng
RT: 7.781 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

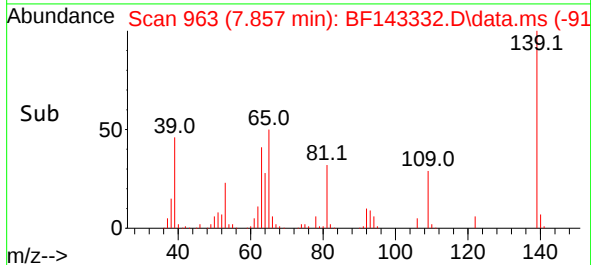
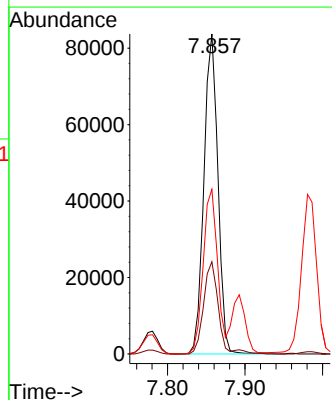
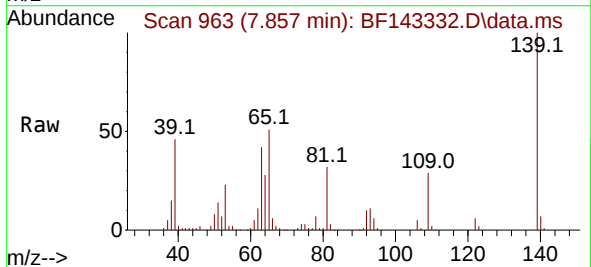
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

Tgt Ion: 82 Resp: 429653
Ion Ratio Lower Upper
82 100
95 6.9 5.5 8.3
138 18.2 13.8 20.8



#26
2-Nitrophenol
Concen: 40.236 ng
RT: 7.857 min Scan# 963
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:139 Resp: 104886
Ion Ratio Lower Upper
139 100
109 28.8 23.6 35.4
65 51.5 42.6 64.0

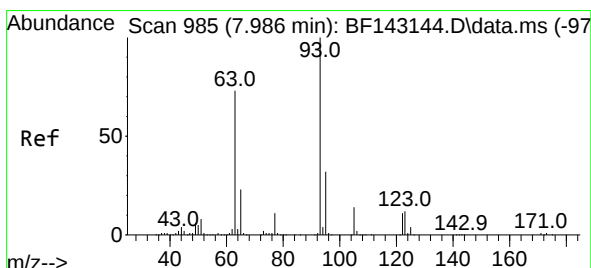
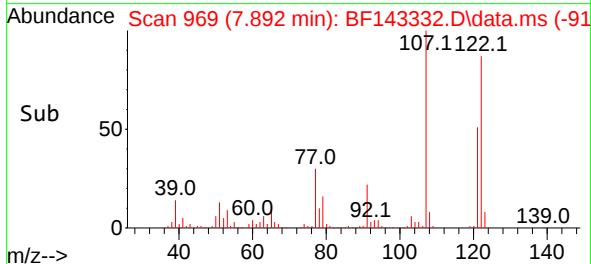
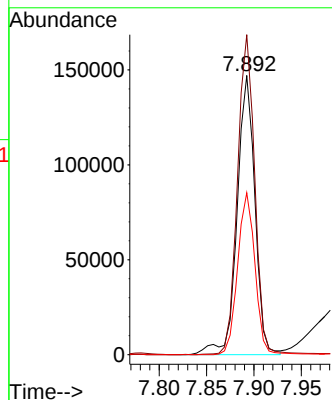
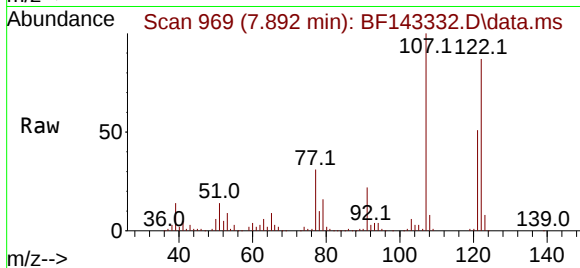




#27
2,4-Dimethylphenol
Concen: 36.201 ng
RT: 7.892 min Scan# 90
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

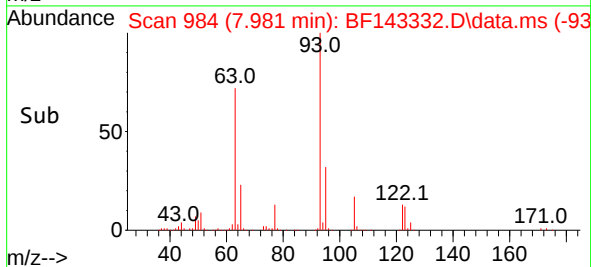
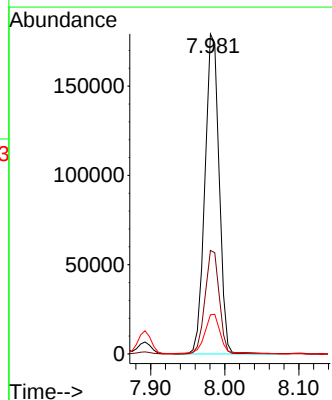
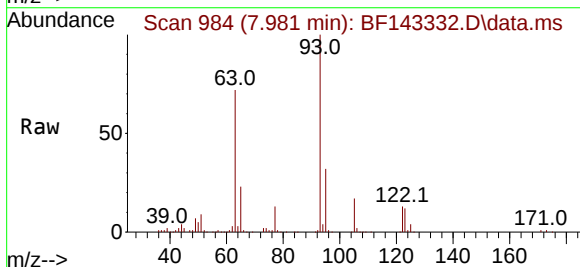
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

Tgt Ion:122 Resp: 192360
Ion Ratio Lower Upper
122 100
107 114.6 91.8 137.6
121 58.0 46.3 69.5



#28
bis(2-Chloroethoxy)methane
Concen: 35.143 ng
RT: 7.981 min Scan# 984
Delta R.T. -0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion: 93 Resp: 239637
Ion Ratio Lower Upper
93 100
95 32.4 25.8 38.6
123 12.3 9.7 14.5





#29

2,4-Dichlorophenol

Concen: 34.528 ng

RT: 8.098 min Scan# 1004

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

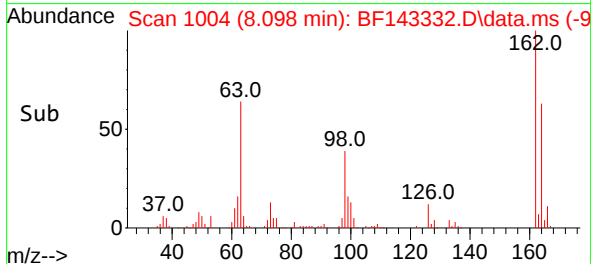
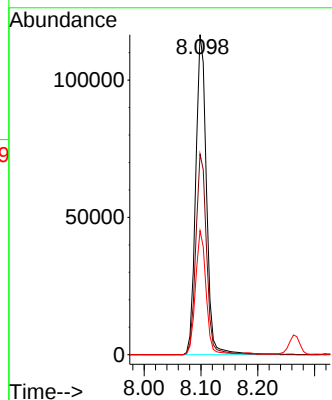
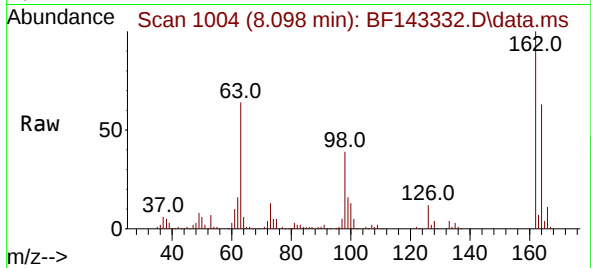
Tgt Ion:162 Resp: 154722

Ion Ratio Lower Upper

162 100

164 62.7 44.2 84.2

98 38.8 17.9 57.9



#30

1,2,4-Trichlorobenzene

Concen: 34.849 ng

RT: 8.186 min Scan# 1019

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

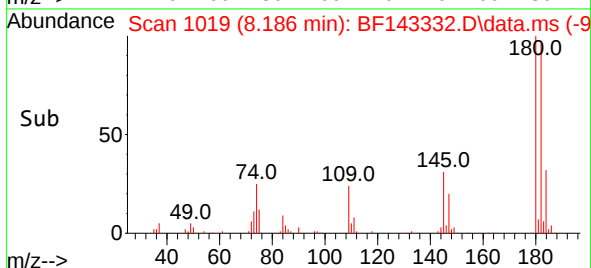
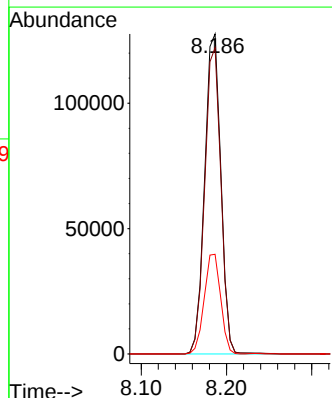
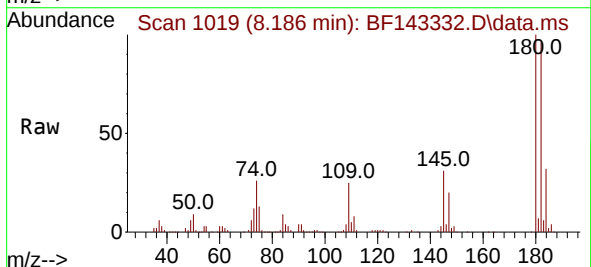
Tgt Ion:180 Resp: 168709

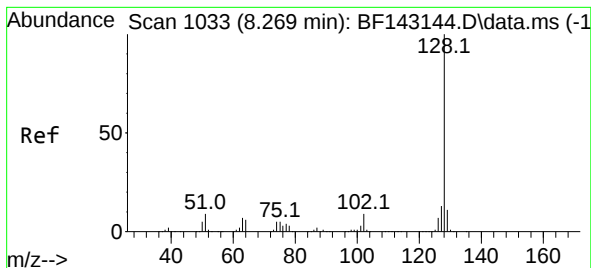
Ion Ratio Lower Upper

180 100

182 95.7 76.2 114.2

145 31.1 25.0 37.6





#31

Naphthalene

Concen: 40.093 ng

RT: 8.263 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

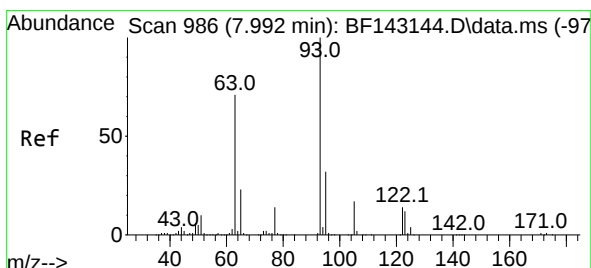
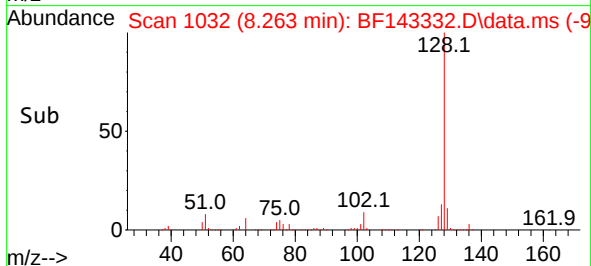
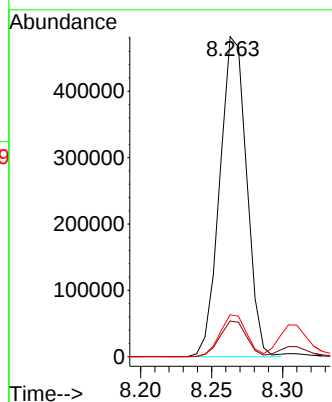
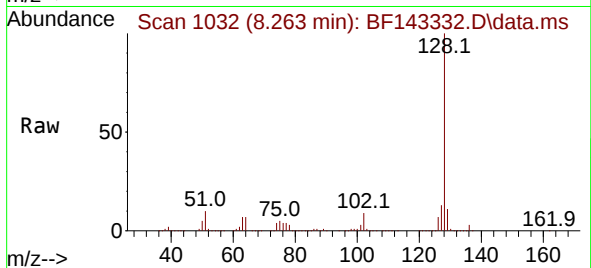
Tgt Ion:128 Resp: 634098

Ion Ratio Lower Upper

128 100

129 11.2 9.0 13.4

127 13.1 10.6 16.0



#32

Benzoic acid

Concen: 30.274 ng

RT: 7.987 min Scan# 985

Delta R.T. -0.005 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

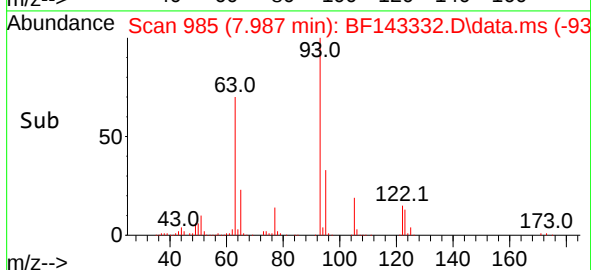
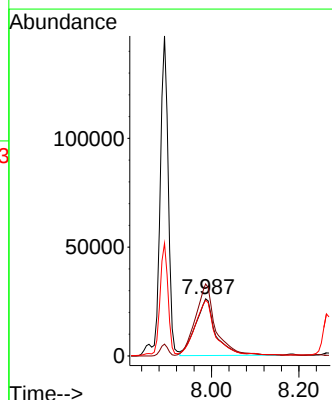
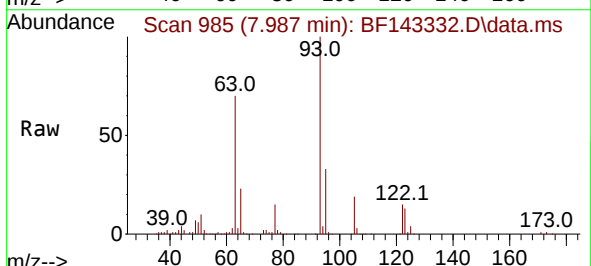
Tgt Ion:122 Resp: 84201

Ion Ratio Lower Upper

122 100

105 126.1 104.8 144.8

77 98.0 77.6 117.6

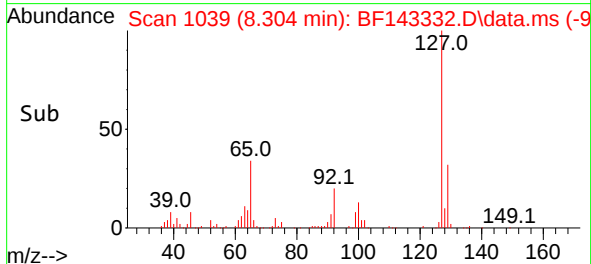
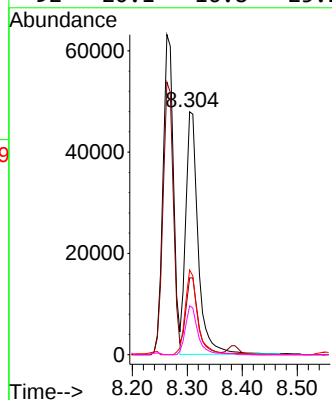
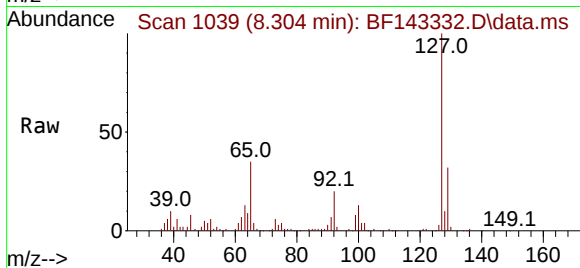




#33
4-Chloroaniline
Concen: 11.635 ng
RT: 8.304 min Scan# 1039
Delta R.T. -0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

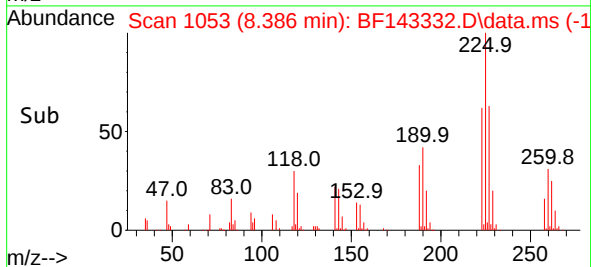
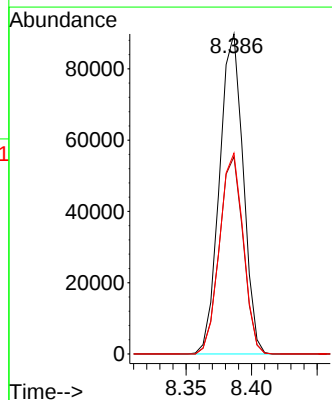
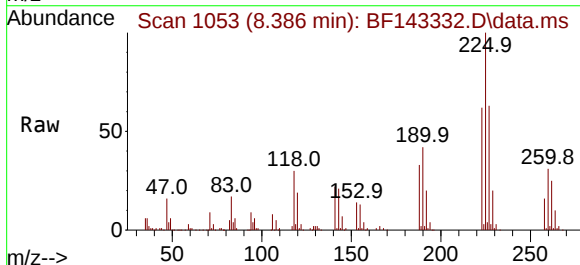
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

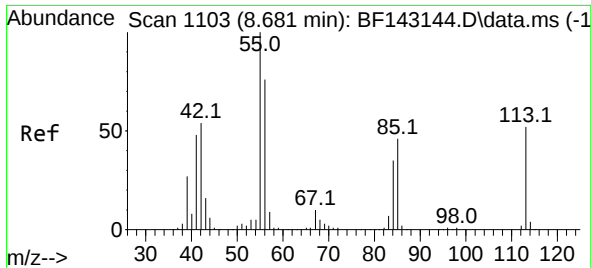
Tgt Ion:127	Resp:	75140
Ion Ratio	Lower	Upper
127	100	
129	31.6	26.0 39.0
65	34.9	27.4 41.2
92	20.1	16.8 25.2



#34
Hexachlorobutadiene
Concen: 38.110 ng
RT: 8.386 min Scan# 1053
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:225	Resp:	112705
Ion Ratio	Lower	Upper
225	100	
223	61.7	49.8 74.6
227	62.7	50.2 75.4

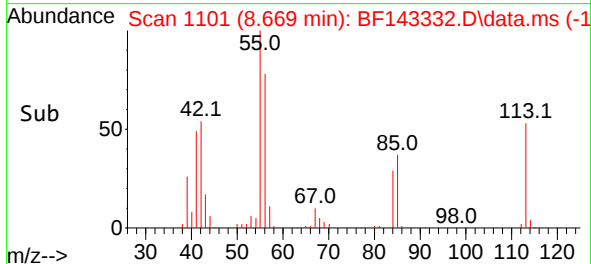
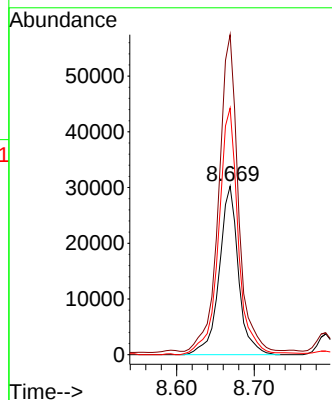
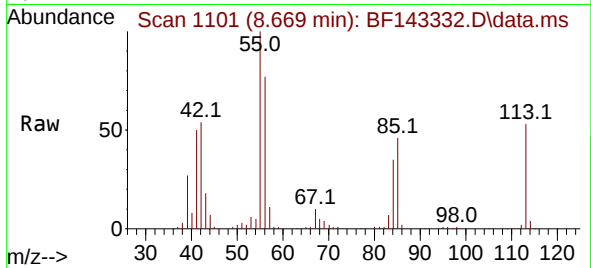




#35
 Caprolactam
 Concen: 38.365 ng
 RT: 8.669 min Scan# 1103
 Delta R.T. -0.012 min
 Lab File: BF143332.D
 Acq: 06 Aug 2025 16:14

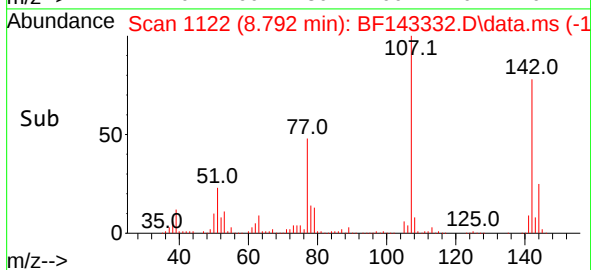
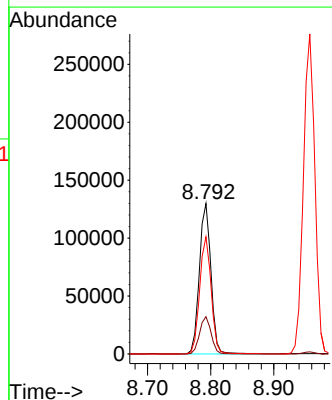
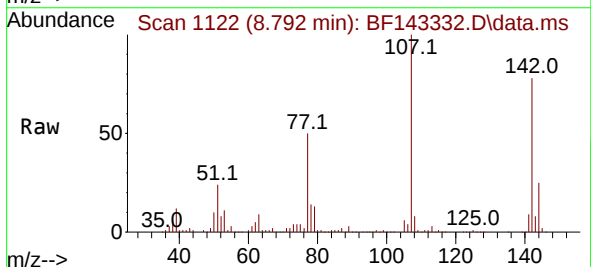
Instrument :
 BNA_F
 ClientSampleId :
 500-3B-SOILMSD

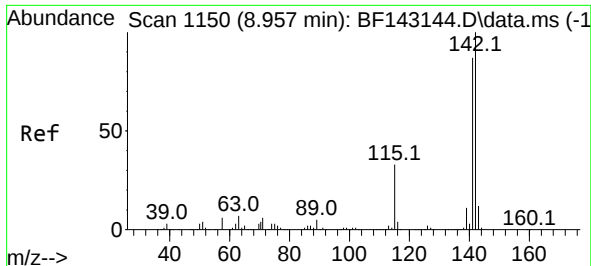
Tgt Ion:113 Resp: 51951
 Ion Ratio Lower Upper
 113 100
 55 189.8 174.0 214.0
 56 146.2 126.6 166.6



#36
 4-Chloro-3-methylphenol
 Concen: 34.073 ng
 RT: 8.792 min Scan# 1122
 Delta R.T. 0.012 min
 Lab File: BF143332.D
 Acq: 06 Aug 2025 16:14

Tgt Ion:107 Resp: 165956
 Ion Ratio Lower Upper
 107 100
 144 24.8 19.8 29.6
 142 77.9 60.6 90.8





#37

2-Methylnaphthalene

Concen: 36.150 ng

RT: 8.957 min Scan# 1150

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

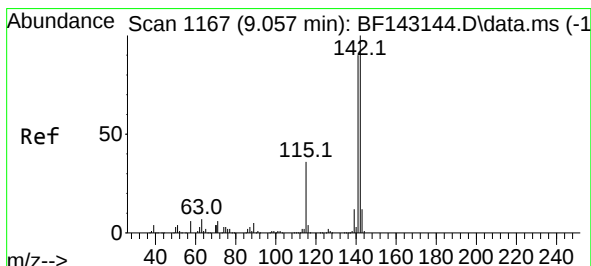
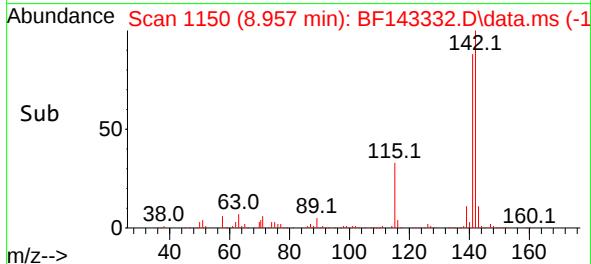
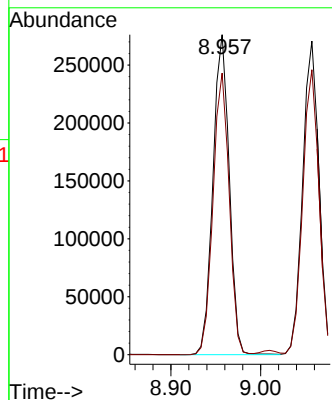
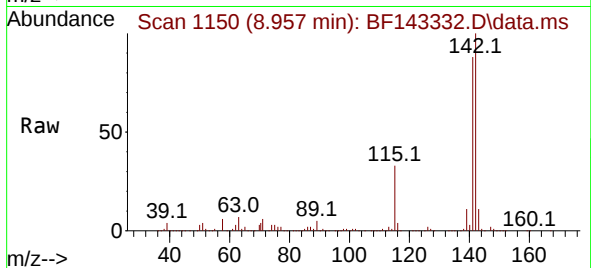
500-3B-SOILMSD

Tgt Ion:142 Resp: 347915

Ion Ratio Lower Upper

142 100

141 88.0 69.9 104.9



#38

1-Methylnaphthalene

Concen: 34.306 ng

RT: 9.057 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF143332.D

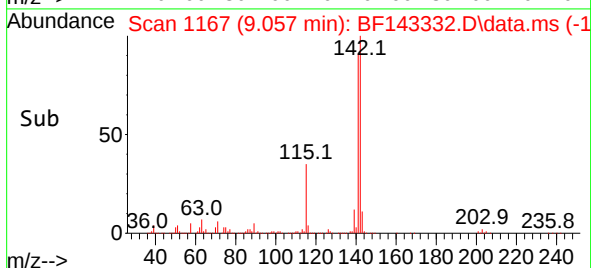
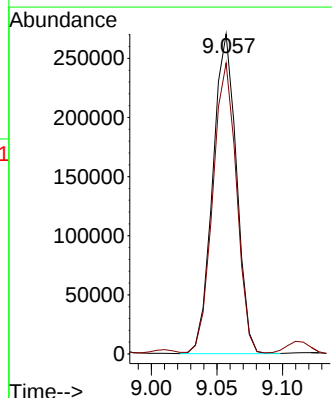
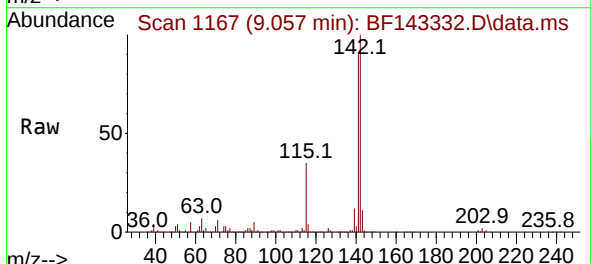
Acq: 06 Aug 2025 16:14

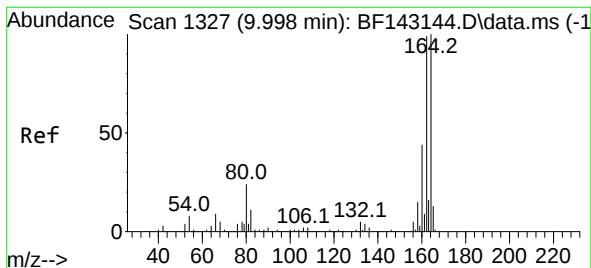
Tgt Ion:142 Resp: 339988

Ion Ratio Lower Upper

142 100

141 90.9 72.3 108.5





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.998 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

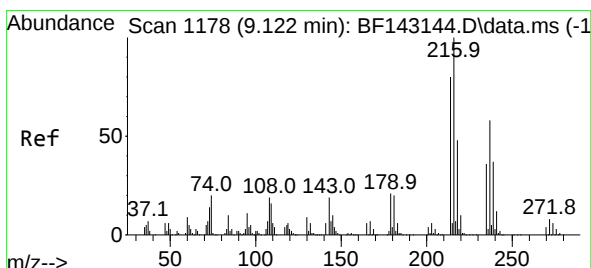
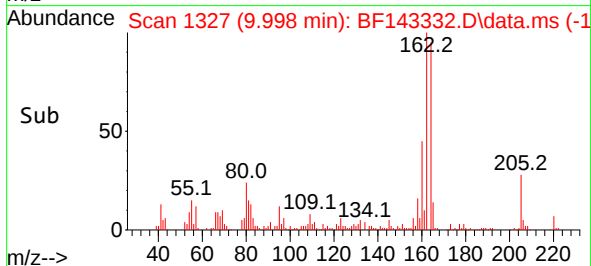
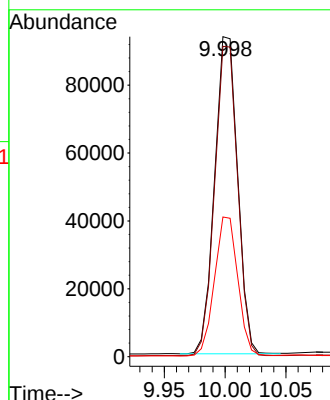
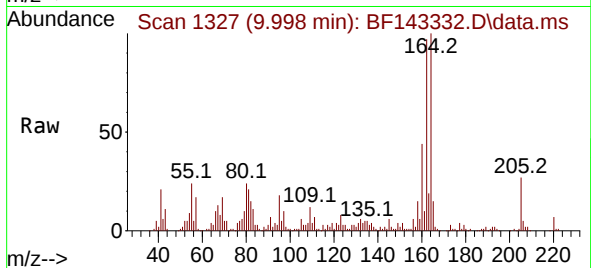
Tgt Ion:164 Resp: 122845

Ion Ratio Lower Upper

164 100

162 97.0 79.0 118.6

160 43.7 35.1 52.7



#40

1,2,4,5-Tetrachlorobenzene

Concen: 45.745 ng

RT: 9.122 min Scan# 1178

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Tgt Ion:216 Resp: 162244

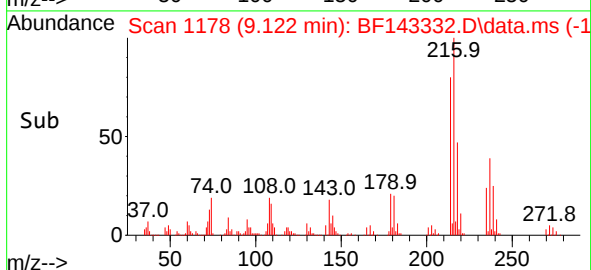
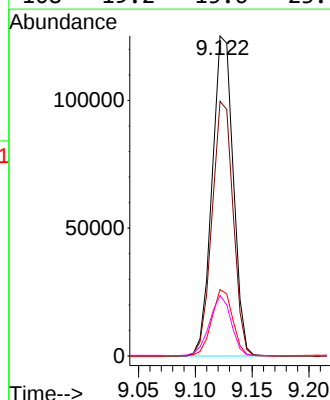
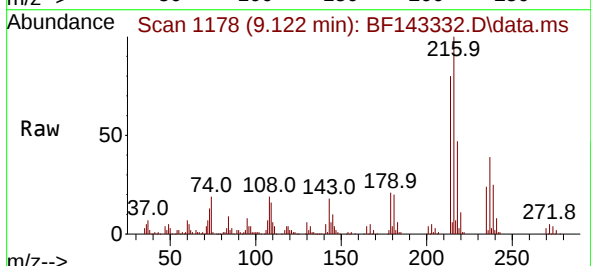
Ion Ratio Lower Upper

216 100

214 79.3 63.8 95.8

179 20.7 16.4 24.6

108 19.2 15.6 23.4

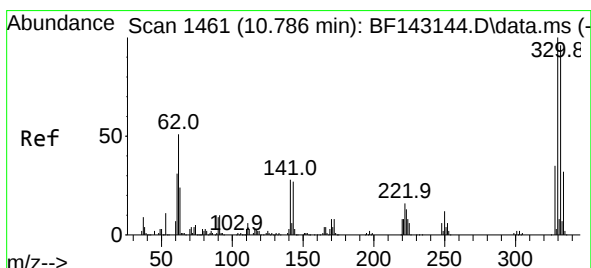
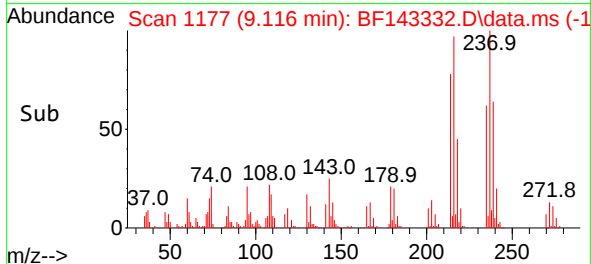
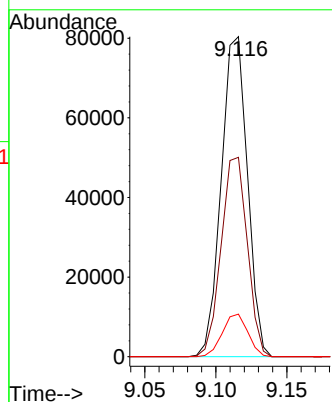
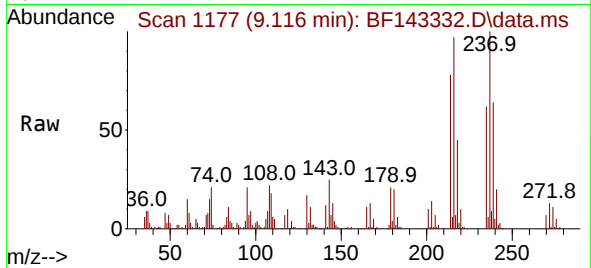




#41
Hexachlorocyclopentadiene
Concen: 44.694 ng
RT: 9.116 min Scan# 1177
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

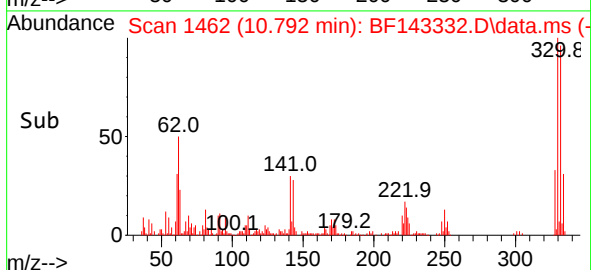
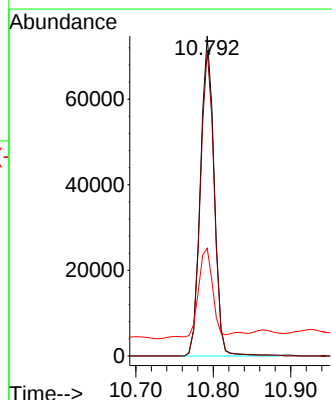
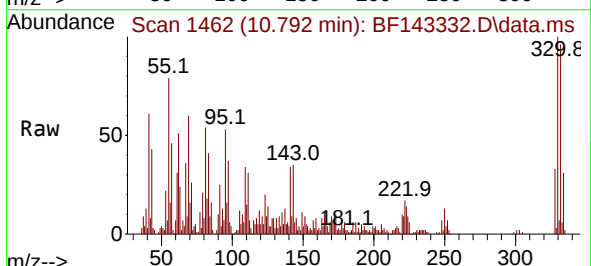
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

Tgt Ion:237 Resp: 103142
Ion Ratio Lower Upper
237 100
235 62.3 43.0 83.0
272 13.3 0.0 33.3



#42
2,4,6-Tribromophenol
Concen: 72.306 ng
RT: 10.792 min Scan# 1462
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:330 Resp: 91761
Ion Ratio Lower Upper
330 100
332 95.8 76.7 115.1
141 30.3 23.3 34.9





#43

2,4,6-Trichlorophenol

Concen: 46.166 ng

RT: 9.233 min Scan# 1196

Delta R.T. 0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

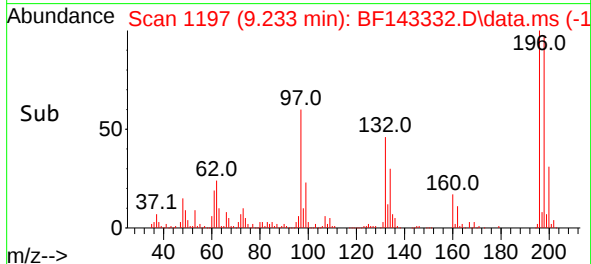
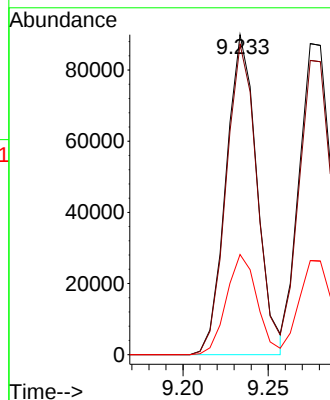
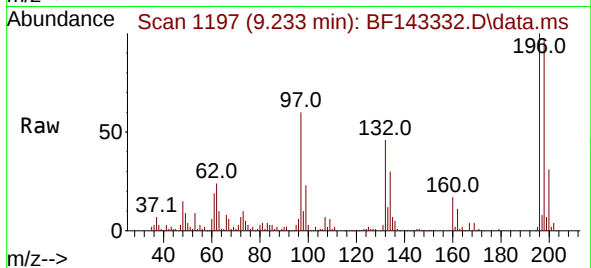
Tgt Ion:196 Resp: 113318

Ion Ratio Lower Upper

196 100

198 97.1 76.2 114.2

200 31.3 23.9 35.9



#44

2,4,5-Trichlorophenol

Concen: 48.197 ng

RT: 9.275 min Scan# 1204

Delta R.T. 0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Tgt Ion:196 Resp: 118341

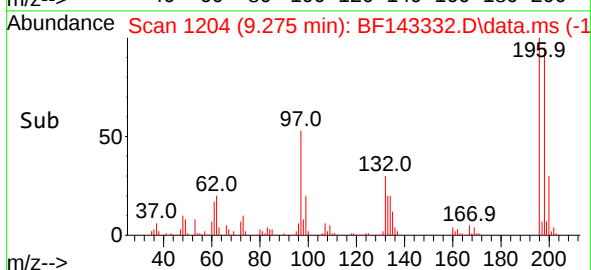
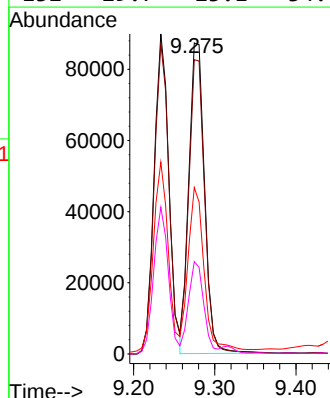
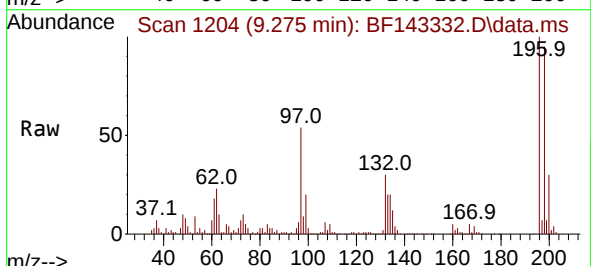
Ion Ratio Lower Upper

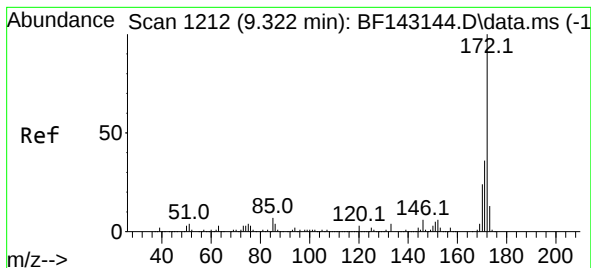
196 100

198 94.6 77.3 115.9

97 53.5 40.3 60.5

132 29.7 23.1 34.7





#45

2-Fluorobiphenyl

Concen: 60.231 ng

RT: 9.316 min Scan# 1211

Delta R.T. -0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

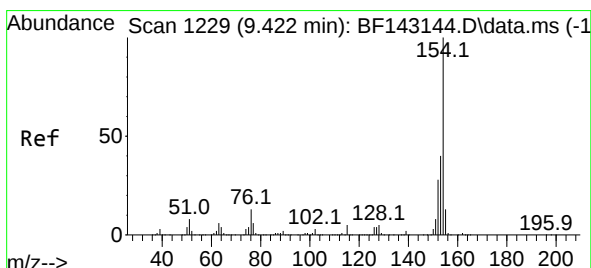
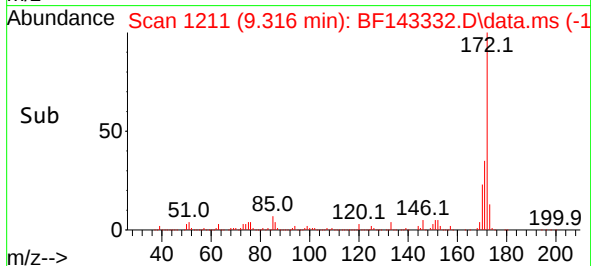
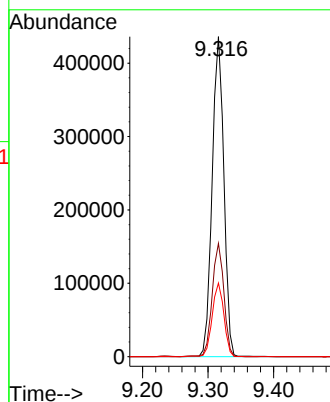
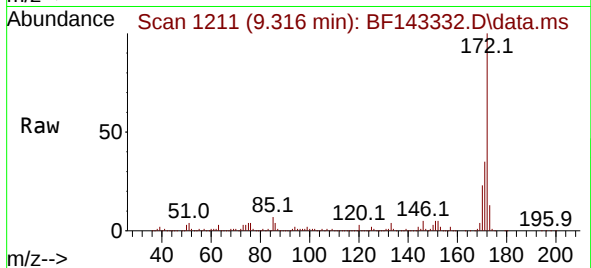
Tgt Ion:172 Resp: 541018

Ion Ratio Lower Upper

172 100

171 35.4 28.6 42.8

170 23.0 18.8 28.2



#46

1,1'-Biphenyl

Concen: 50.535 ng

RT: 9.416 min Scan# 1228

Delta R.T. -0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

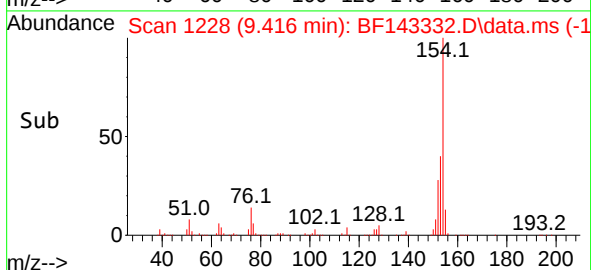
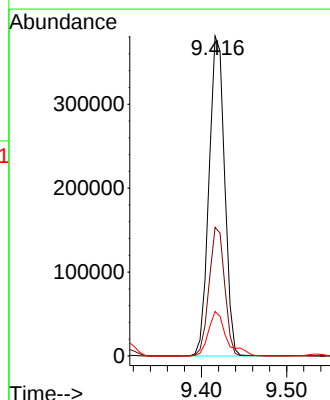
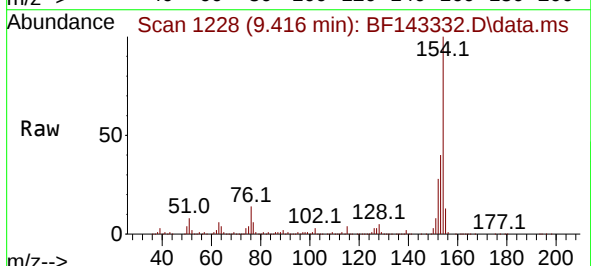
Tgt Ion:154 Resp: 484349

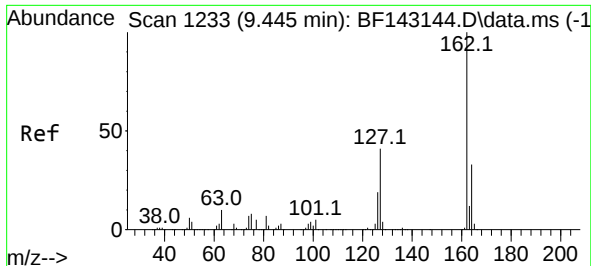
Ion Ratio Lower Upper

154 100

153 40.2 20.3 60.3

76 13.9 0.0 33.3





#47

2-Chloronaphthalene

Concen: 48.317 ng

RT: 9.445 min Scan# 1233

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

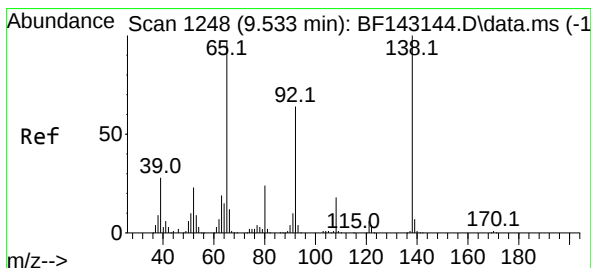
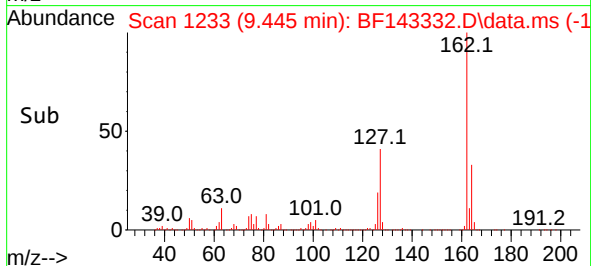
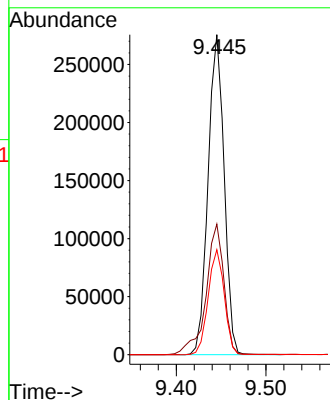
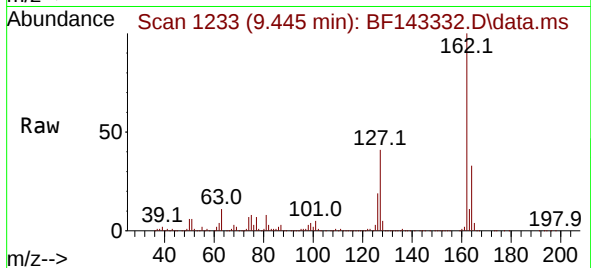
Tgt Ion:162 Resp: 342648

Ion Ratio Lower Upper

162 100

127 40.8 33.4 50.2

164 32.8 26.2 39.2



#48

2-Nitroaniline

Concen: 52.942 ng

RT: 9.533 min Scan# 1248

Delta R.T. 0.000 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

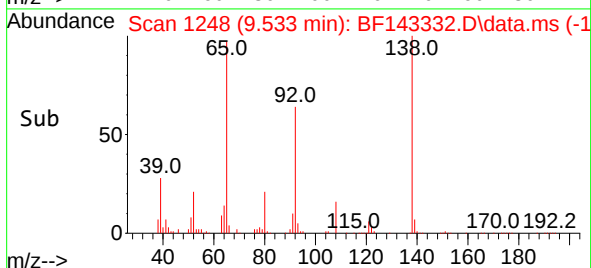
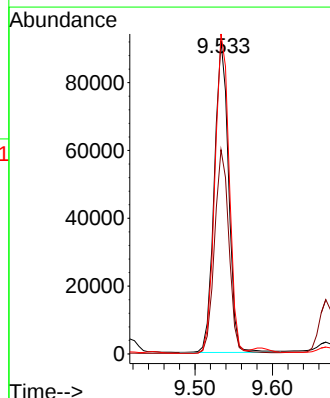
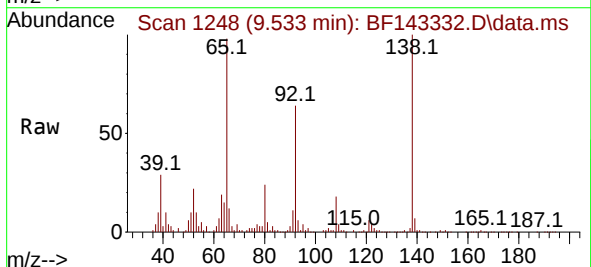
Tgt Ion: 65 Resp: 117740

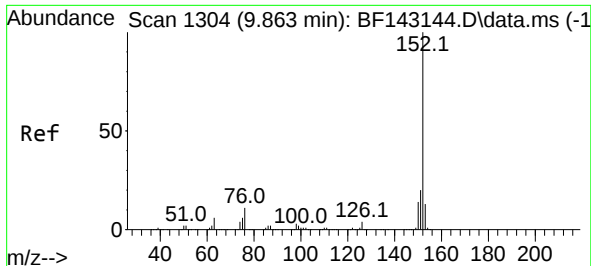
Ion Ratio Lower Upper

65 100

92 65.2 52.4 78.6

138 102.1 82.3 123.5

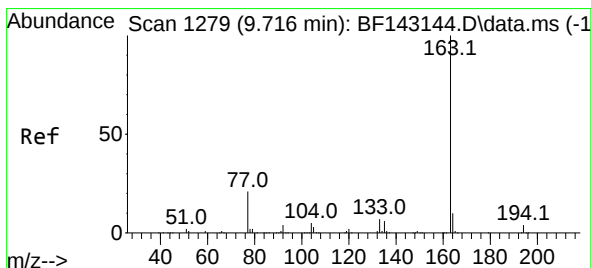
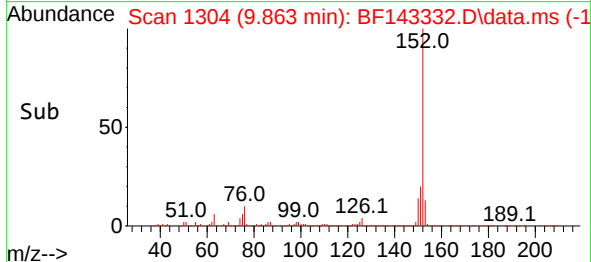
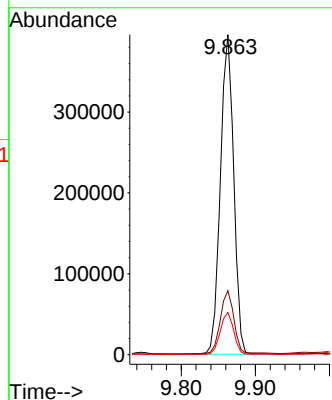
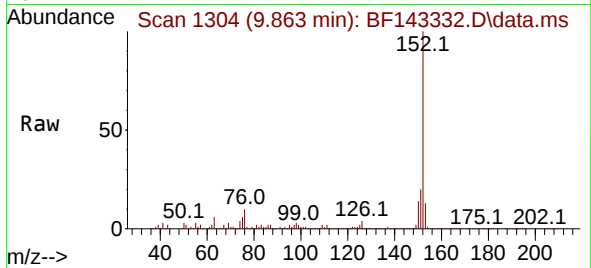




#49
Acenaphthylene
Concen: 41.578 ng
RT: 9.863 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

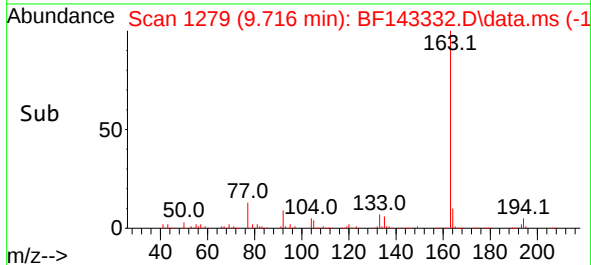
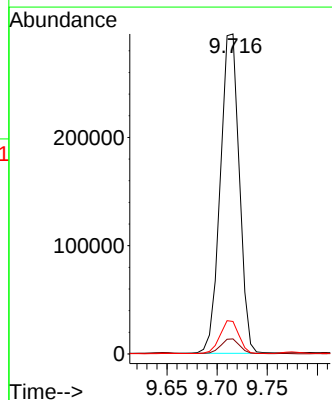
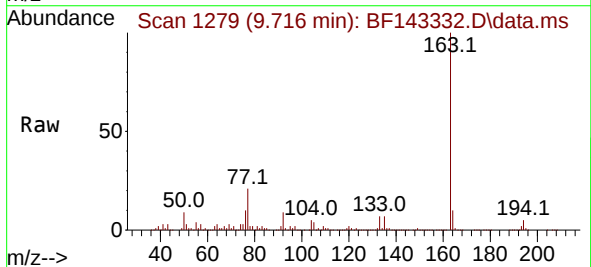
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

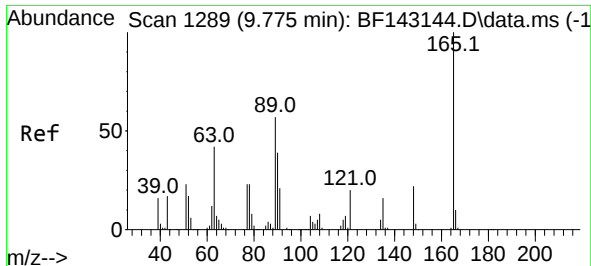
Tgt Ion:152 Resp: 494133
Ion Ratio Lower Upper
152 100
151 20.0 16.2 24.2
153 13.2 10.6 16.0



#50
Dimethylphthalate
Concen: 48.450 ng
RT: 9.716 min Scan# 1279
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:163 Resp: 387955
Ion Ratio Lower Upper
163 100
194 4.7 3.4 5.2
164 10.1 8.3 12.5

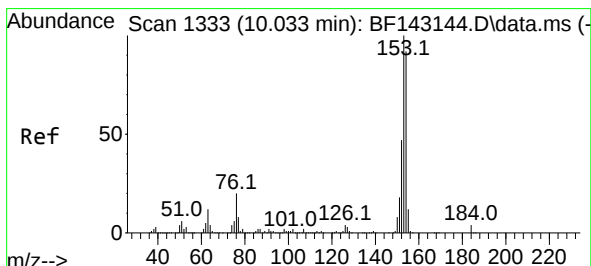
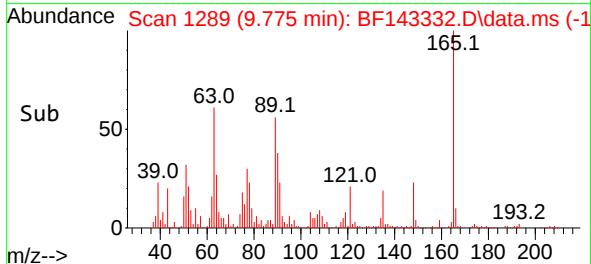
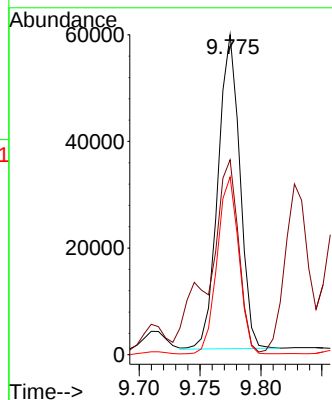
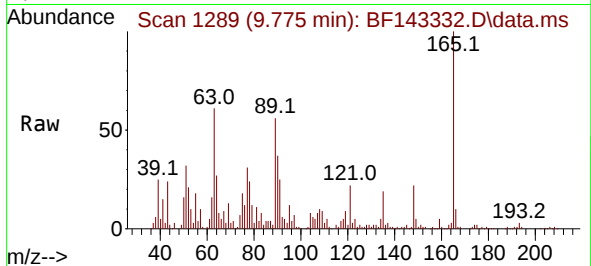




#51
2,6-Dinitrotoluene
Concen: 45.185 ng
RT: 9.775 min Scan# 1289
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

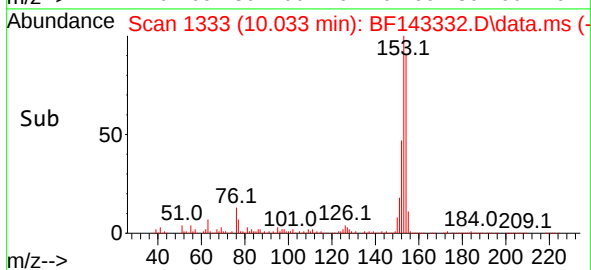
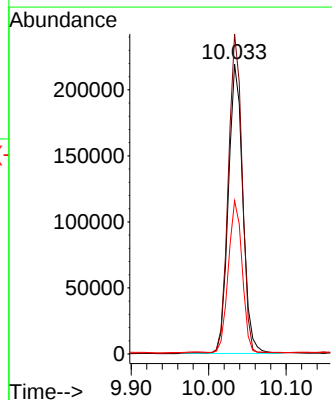
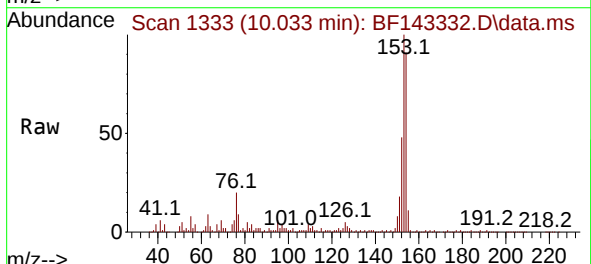
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

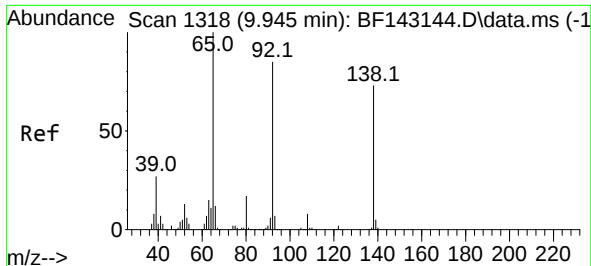
Tgt Ion:165 Resp: 73603
Ion Ratio Lower Upper
165 100
63 60.9 49.4 74.2
89 55.6 46.2 69.2



#52
Acenaphthene
Concen: 40.559 ng
RT: 10.033 min Scan# 1333
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:154 Resp: 284901
Ion Ratio Lower Upper
154 100
153 110.4 86.6 129.8
152 52.9 40.4 60.6

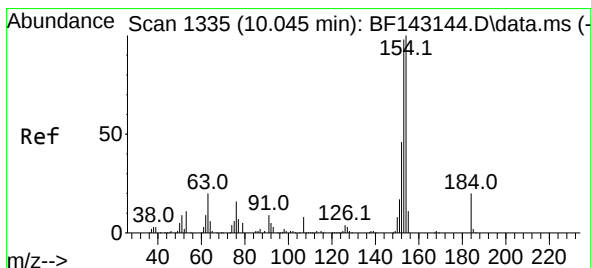
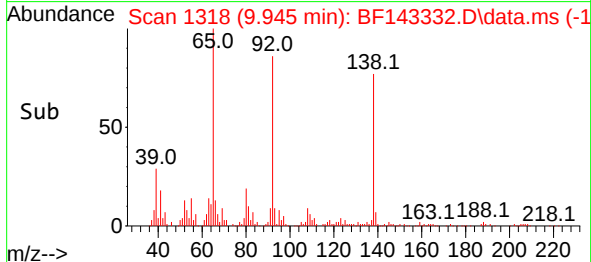
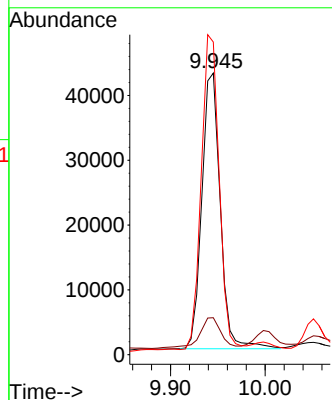
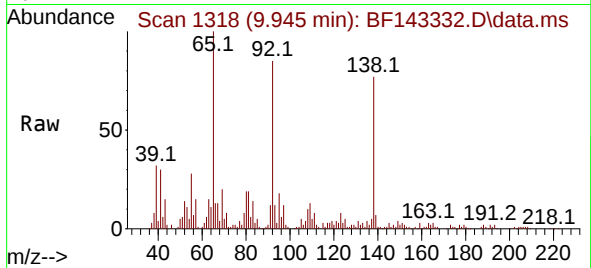




#53
3-Nitroaniline
Concen: 30.242 ng
RT: 9.945 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

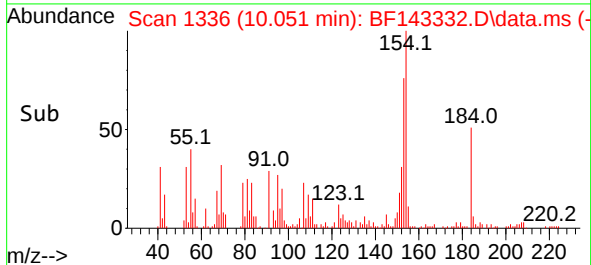
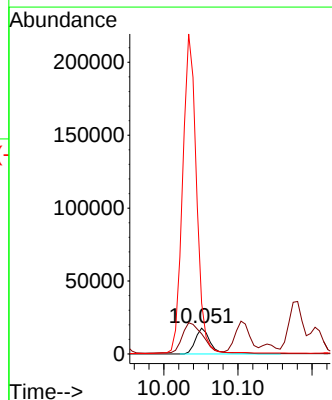
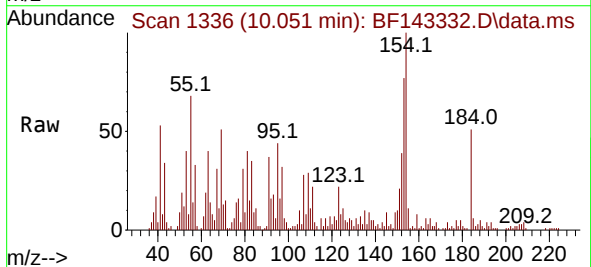
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

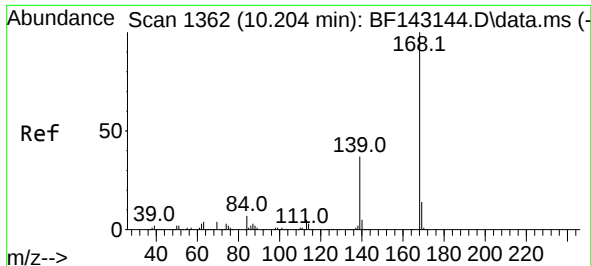
Tgt Ion:138 Resp: 57621
Ion Ratio Lower Upper
138 100
108 13.1 9.0 13.6
92 111.0 93.0 139.4



#54
2,4-Dinitrophenol
Concen: 38.619 ng
RT: 10.051 min Scan# 1336
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:184 Resp: 25735
Ion Ratio Lower Upper
184 100
63 78.4 81.8 122.6#
154 196.9 412.2 618.4#

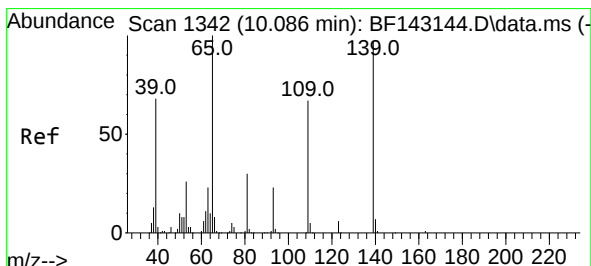
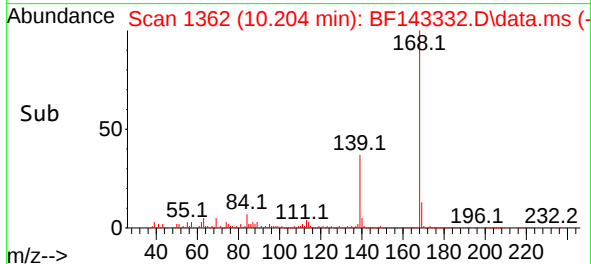
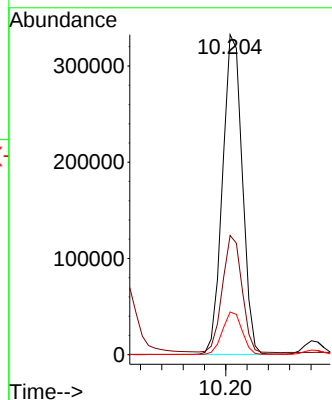
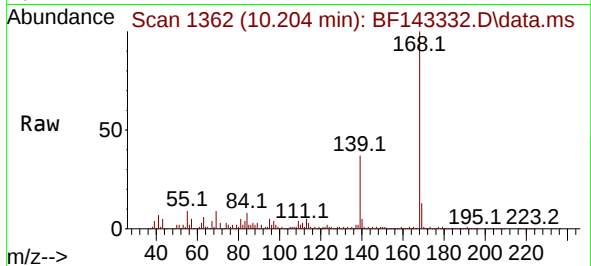




#55
Dibenzenofuran
Concen: 40.799 ng
RT: 10.204 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

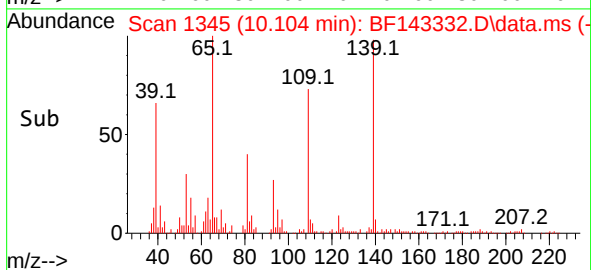
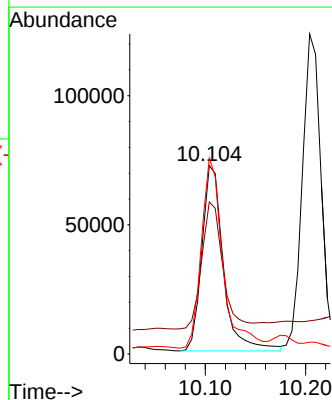
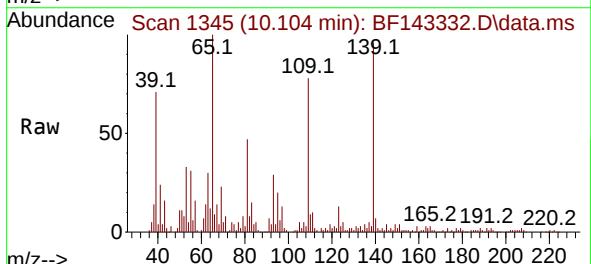
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

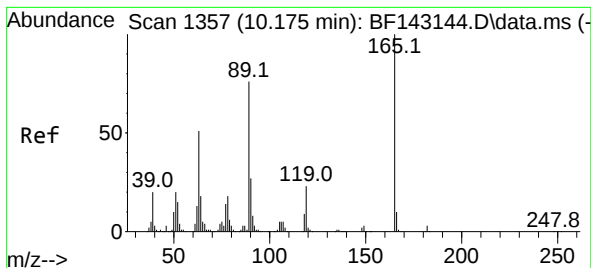
Tgt Ion:168 Resp: 425493
Ion Ratio Lower Upper
168 100
139 37.3 29.5 44.3
169 13.4 10.9 16.3



#56
4-Nitrophenol
Concen: 75.456 ng
RT: 10.104 min Scan# 1345
Delta R.T. 0.018 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:139 Resp: 107357
Ion Ratio Lower Upper
139 100
109 80.7 48.5 88.5
65 104.0 83.4 123.4

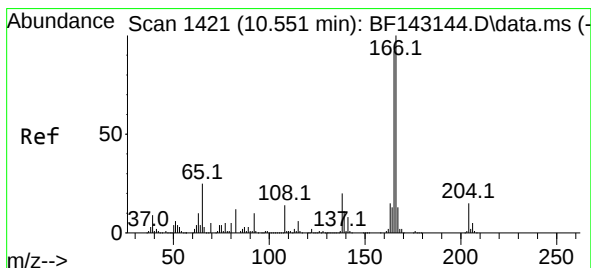
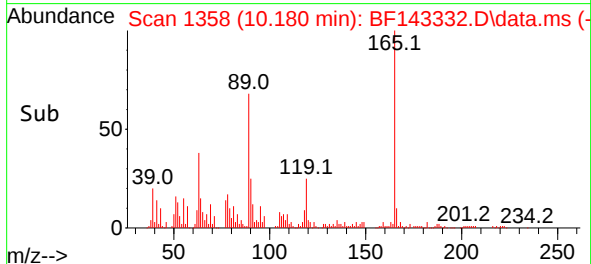
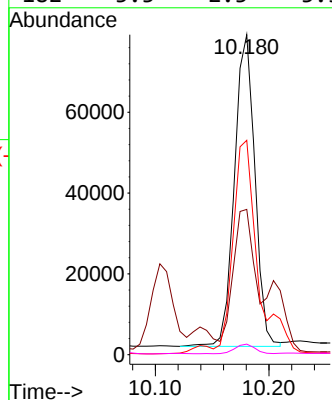
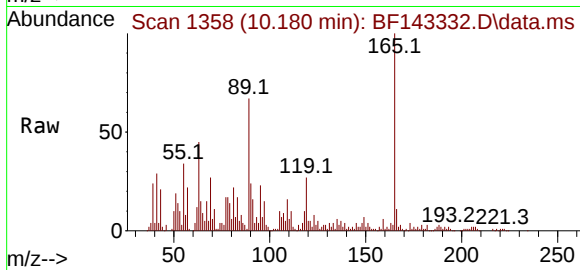




#57
2,4-Dinitrotoluene
Concen: 47.198 ng
RT: 10.180 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

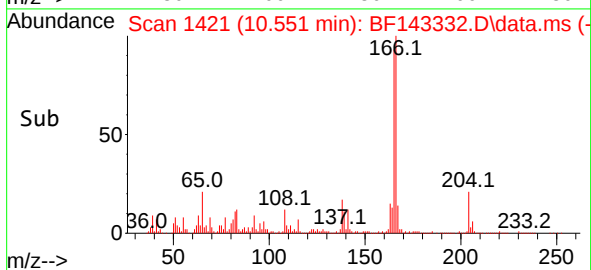
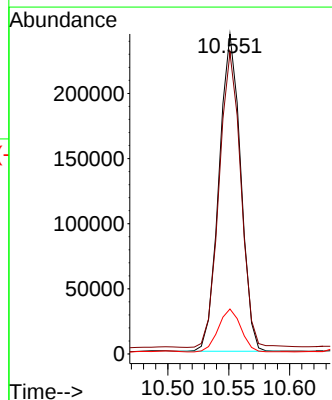
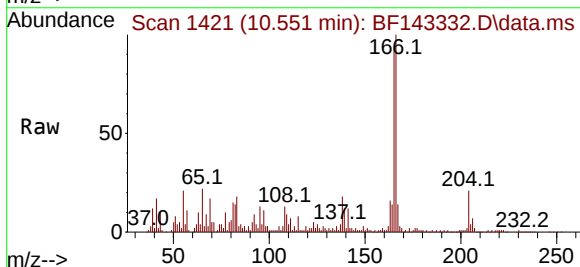
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

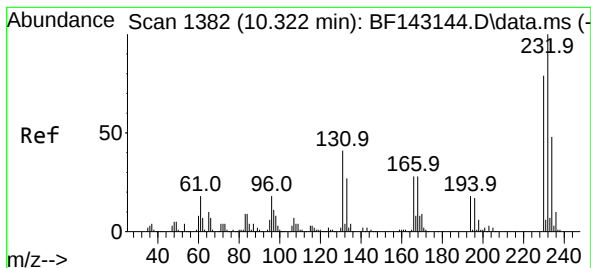
Tgt Ion:165 Resp: 96458
Ion Ratio Lower Upper
165 100
63 45.4 41.0 61.4
89 67.0 61.1 91.7
182 3.3 2.3 3.5



#58
Fluorene
Concen: 38.583 ng
RT: 10.551 min Scan# 1421
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:166 Resp: 301998
Ion Ratio Lower Upper
166 100
165 94.2 73.7 110.5
167 14.1 10.6 16.0

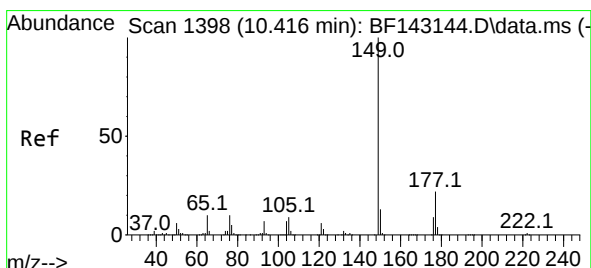
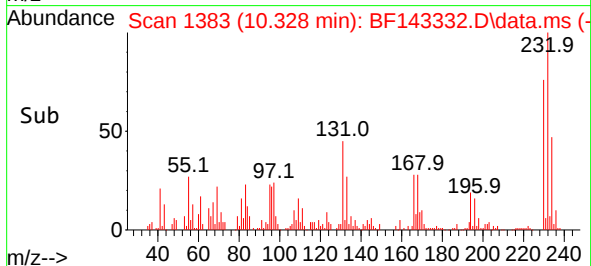
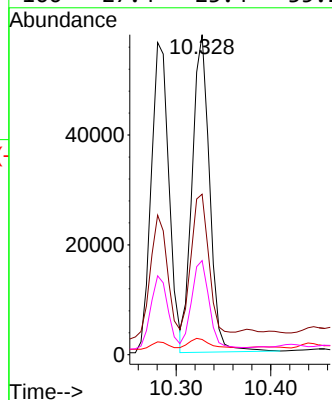
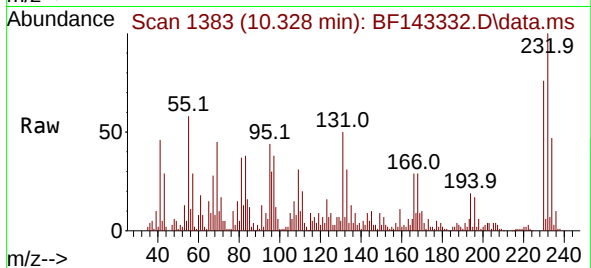




#59
2,3,4,6-Tetrachlorophenol
Concen: 36.417 ng
RT: 10.328 min Scan# 1382
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

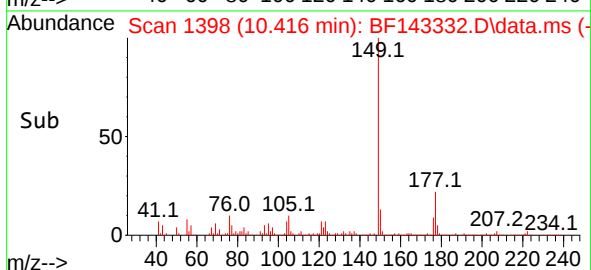
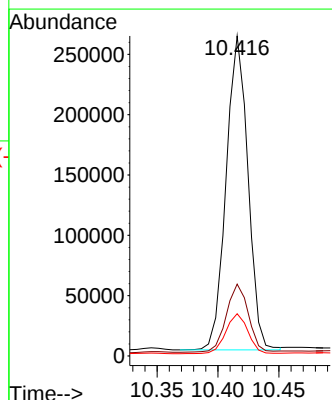
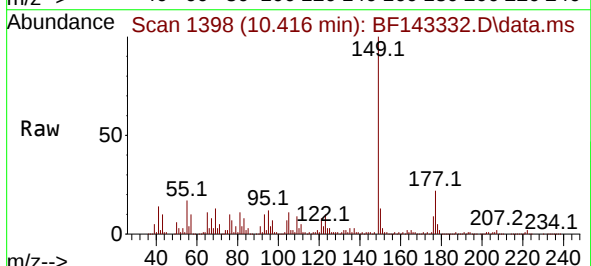
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

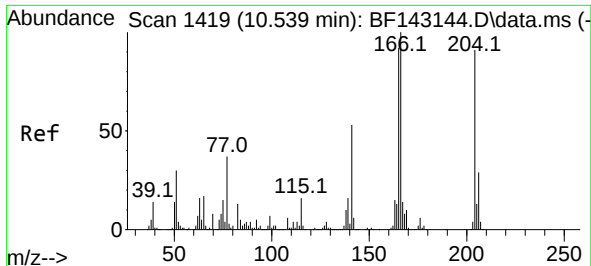
Tgt Ion:232 Resp: 74069
Ion Ratio Lower Upper
232 100
131 43.6 35.3 52.9
130 3.5 1.7 2.5#
166 27.4 23.4 35.2



#60
Diethylphthalate
Concen: 40.924 ng
RT: 10.416 min Scan# 1398
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:149 Resp: 323894
Ion Ratio Lower Upper
149 100
177 22.5 17.5 26.3
150 13.2 10.2 15.2

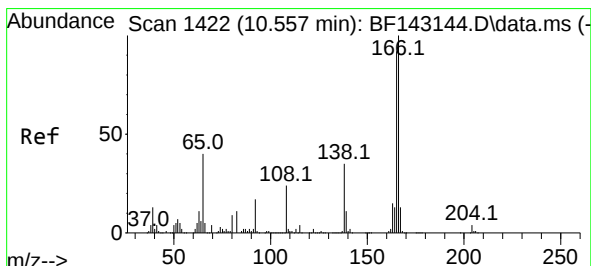
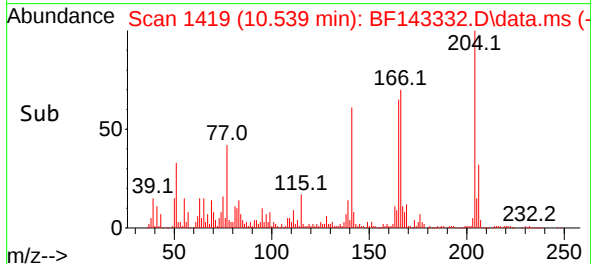
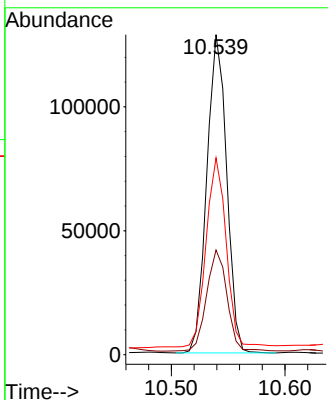
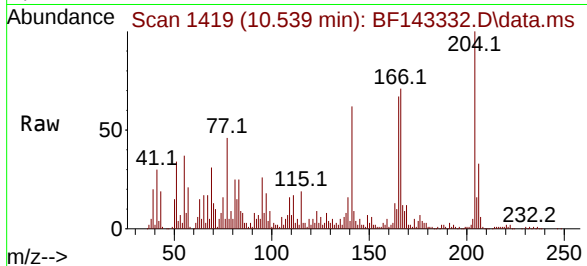




#61
4-Chlorophenyl-phenylether
Concen: 40.041 ng
RT: 10.539 min Scan# 1419
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

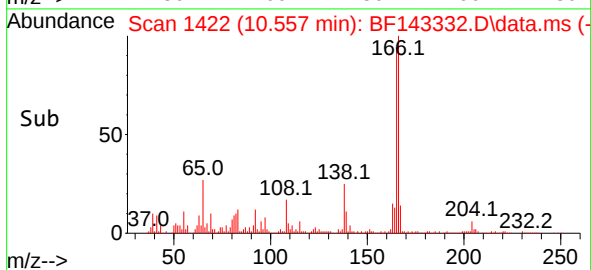
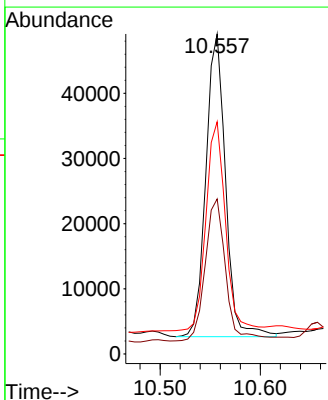
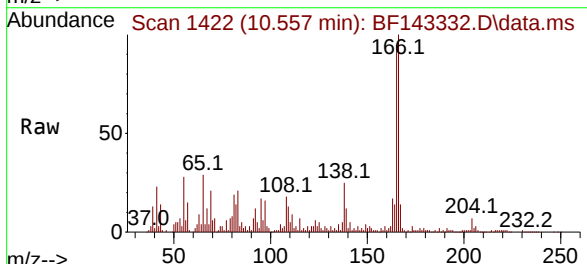
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

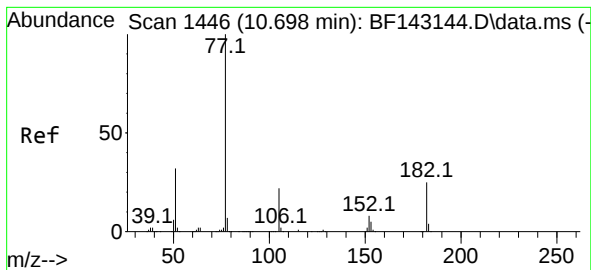
Tgt Ion:204 Resp: 156058
Ion Ratio Lower Upper
204 100
206 32.7 25.8 38.8
141 61.5 47.0 70.4



#62
4-Nitroaniline
Concen: 38.581 ng
RT: 10.557 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:138 Resp: 63001
Ion Ratio Lower Upper
138 100
92 48.4 29.3 69.3
108 72.5 48.3 88.3

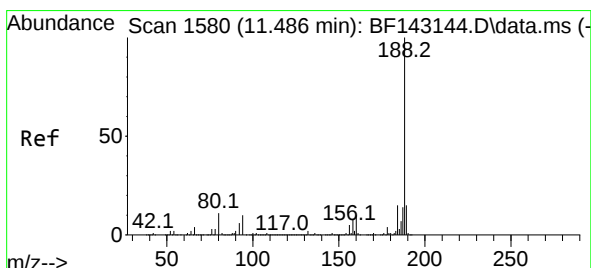
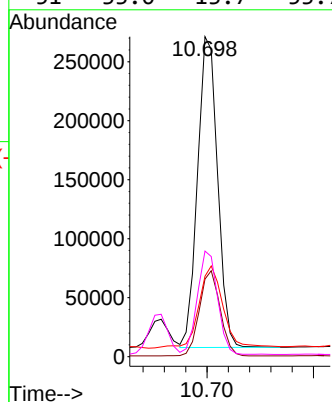
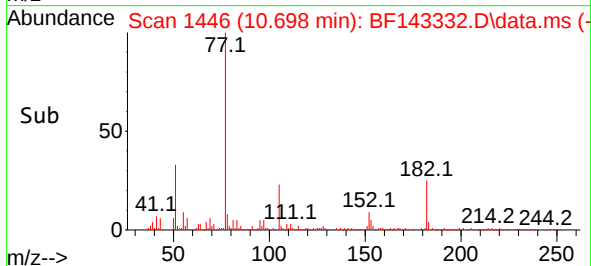
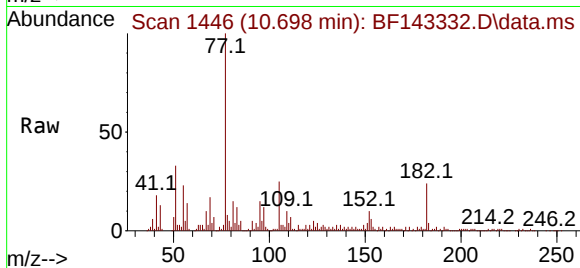




#63
 Azobenzene
 Concen: 41.874 ng
 RT: 10.698 min Scan# 1446
 Delta R.T. 0.000 min
 Lab File: BF143332.D
 Acq: 06 Aug 2025 16:14

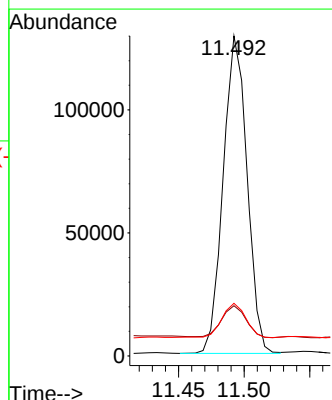
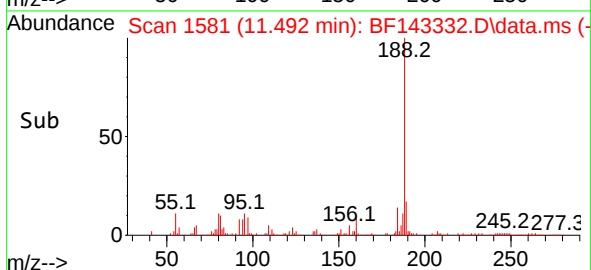
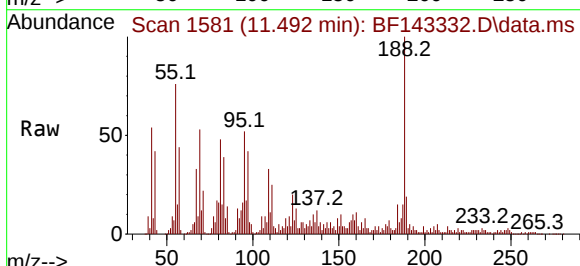
Instrument :
 BNA_F
 ClientSampleId :
 500-3B-SOILMSD

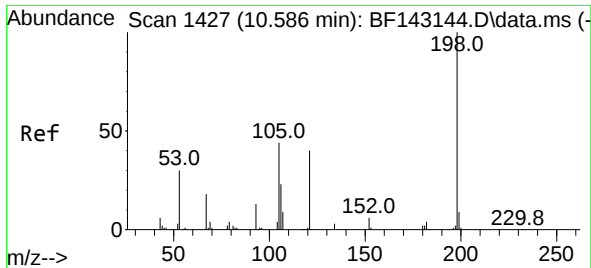
Tgt Ion:	77	Resp:	345407
Ion	Ratio	Lower	Upper
77	100		
182	24.3	4.6	44.6
105	25.2	1.4	41.4
51	33.0	13.7	53.7



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.492 min Scan# 1581
 Delta R.T. 0.006 min
 Lab File: BF143332.D
 Acq: 06 Aug 2025 16:14

Tgt Ion:	188	Resp:	163350
Ion	Ratio	Lower	Upper
188	100		
94	15.7	8.3	12.5#
80	16.5	9.0	13.6#

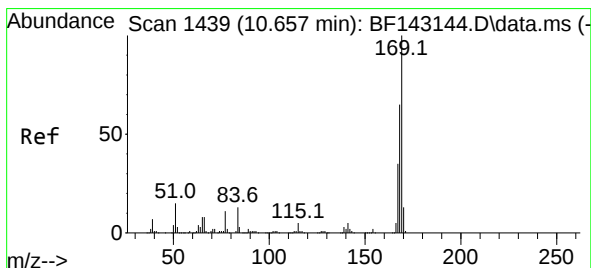
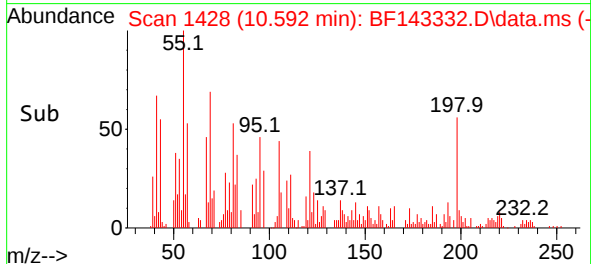
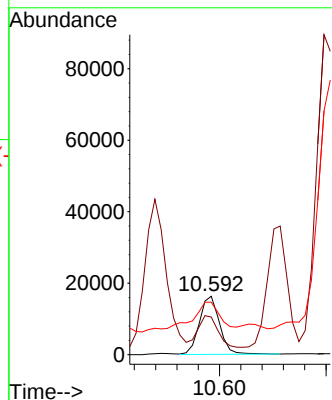
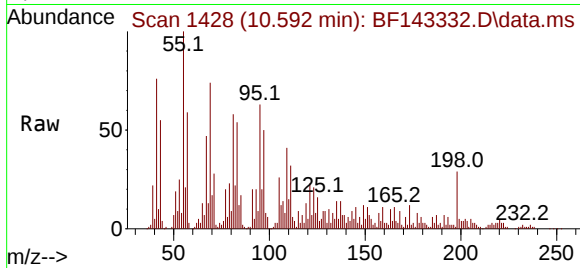




#65
4,6-Dinitro-2-methylphenol
Concen: 27.444 ng
RT: 10.592 min Scan# 1428
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

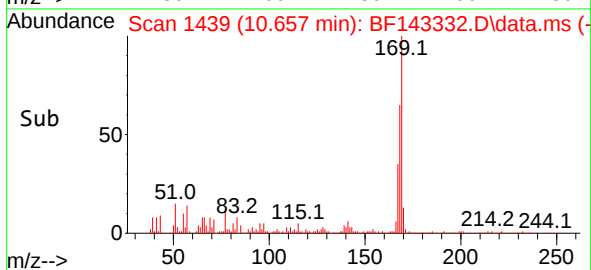
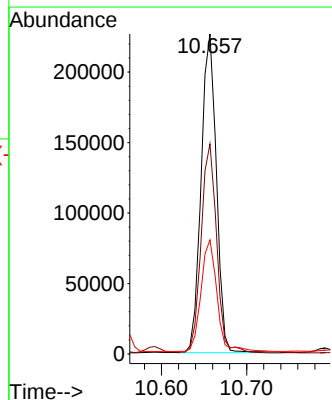
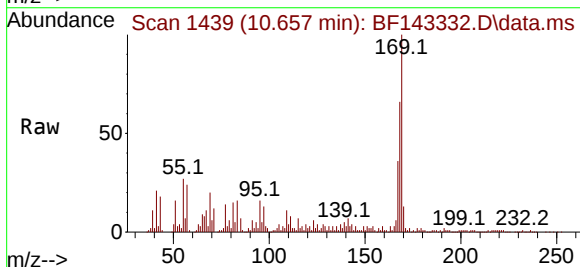
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

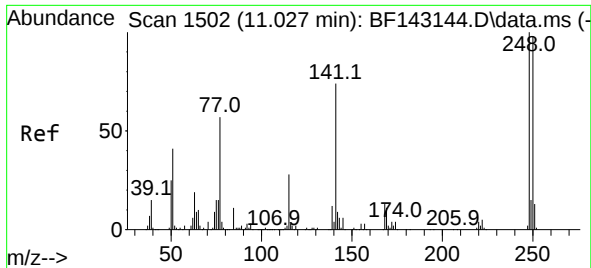
Tgt Ion:198 Resp: 21264
Ion Ratio Lower Upper
198 100
51 64.5 37.2 77.2
105 89.9 24.8 64.8#



#66
n-Nitrosodiphenylamine
Concen: 48.862 ng
RT: 10.657 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:169 Resp: 281057
Ion Ratio Lower Upper
169 100
168 65.7 52.1 78.1
167 35.6 28.2 42.2

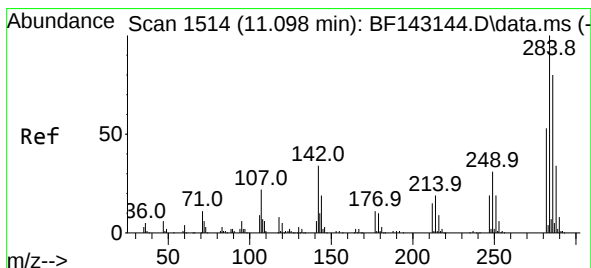
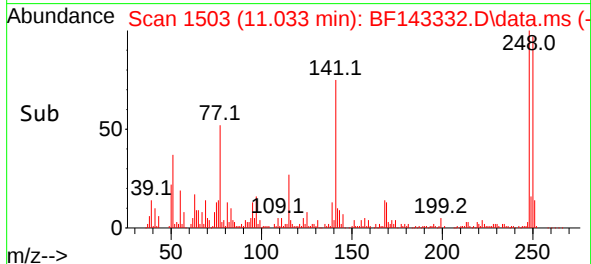
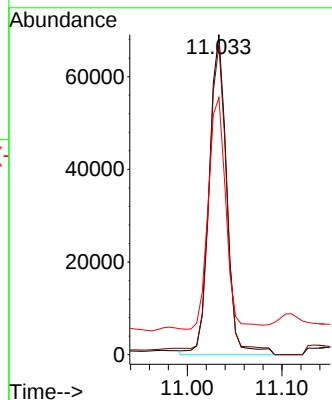
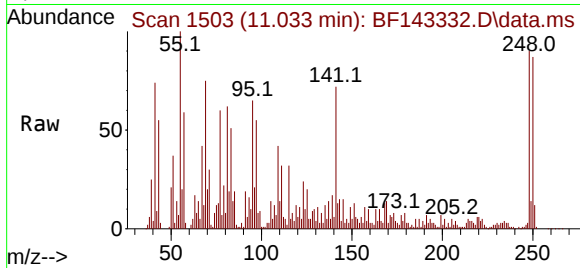




#67
4-Bromophenyl-phenylether
Concen: 45.661 ng
RT: 11.033 min Scan# 1503
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

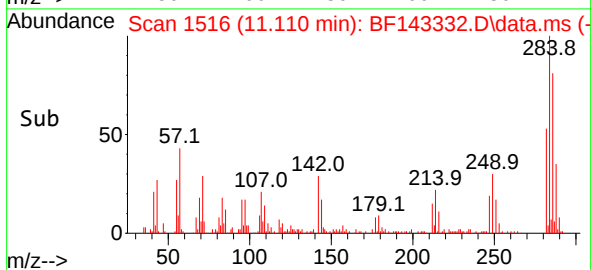
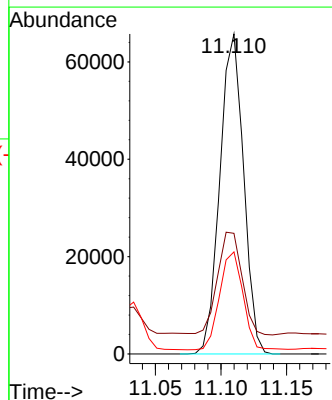
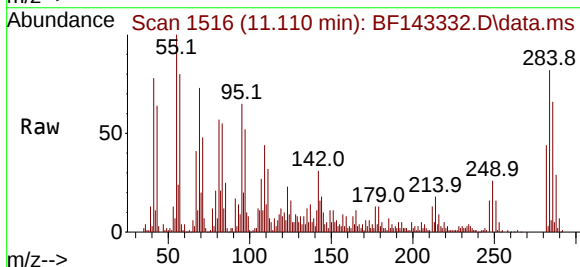
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

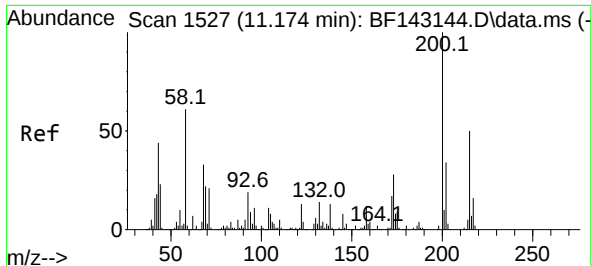
Tgt Ion:248 Resp: 88887
Ion Ratio Lower Upper
248 100
250 96.9 78.3 117.5
141 80.4 59.2 88.8



#68
Hexachlorobenzene
Concen: 40.575 ng
RT: 11.110 min Scan# 1516
Delta R.T. 0.012 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:284 Resp: 82558
Ion Ratio Lower Upper
284 100
142 37.7 27.0 40.6
249 31.9 25.0 37.6

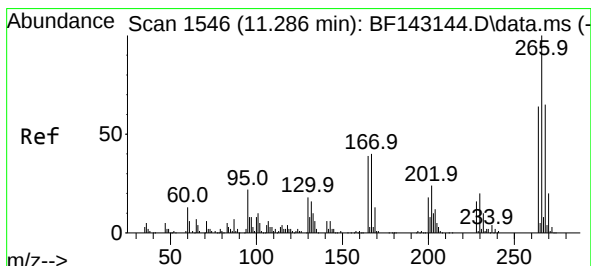
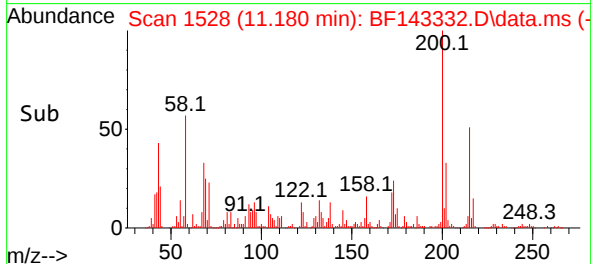
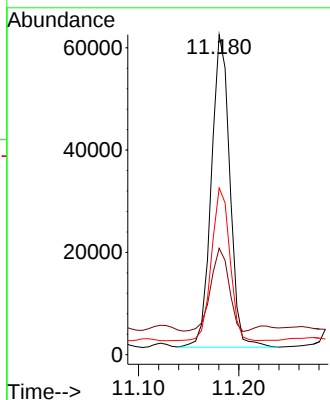
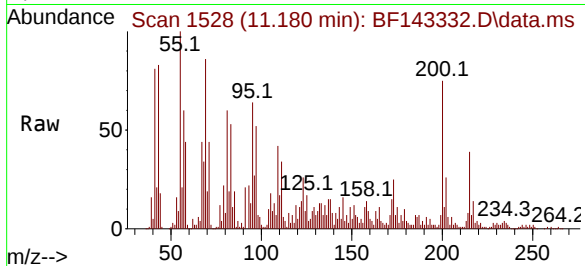




#69
 Atrazine
 Concen: 49.404 ng
 RT: 11.180 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF143332.D
 Acq: 06 Aug 2025 16:14

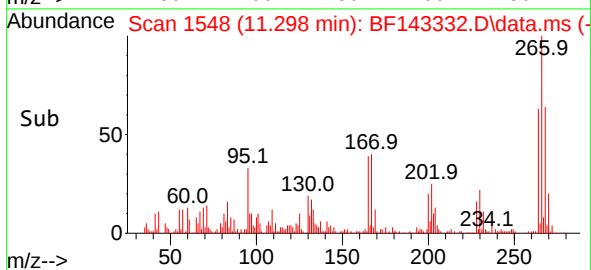
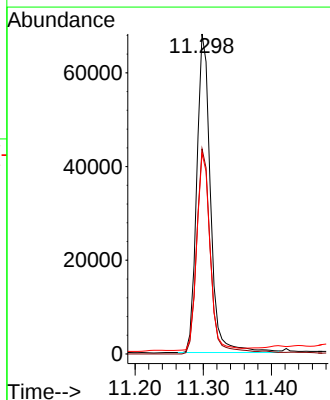
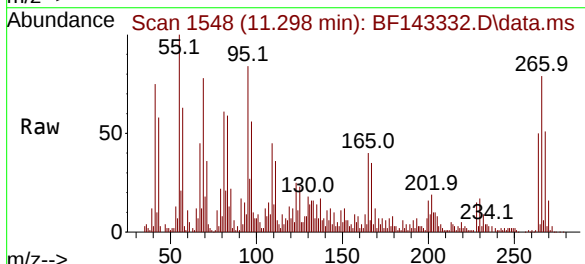
Instrument :
 BNA_F
 ClientSampleId :
 500-3B-SOILMSD

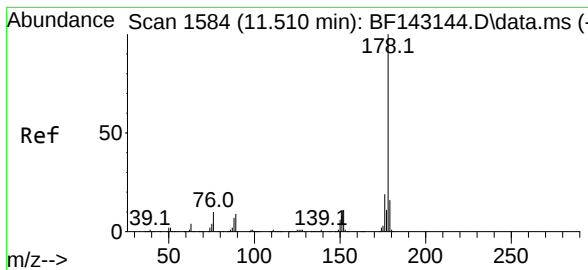
Tgt Ion:200 Resp: 78344
 Ion Ratio Lower Upper
 200 100
 173 33.2 7.9 47.9
 215 52.1 30.1 70.1



#70
 Pentachlorophenol
 Concen: 79.481 ng
 RT: 11.298 min Scan# 1548
 Delta R.T. 0.012 min
 Lab File: BF143332.D
 Acq: 06 Aug 2025 16:14

Tgt Ion:266 Resp: 95105
 Ion Ratio Lower Upper
 266 100
 268 64.1 51.9 77.9
 264 62.8 51.0 76.6

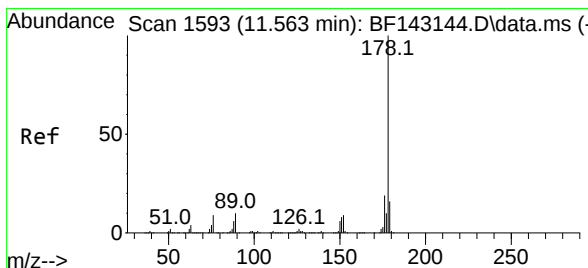
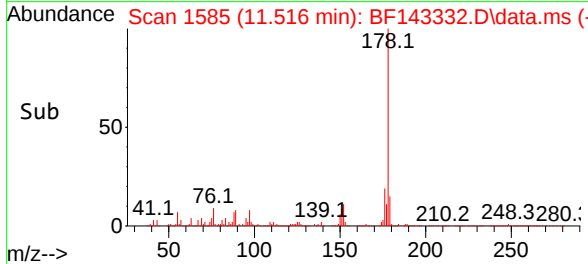
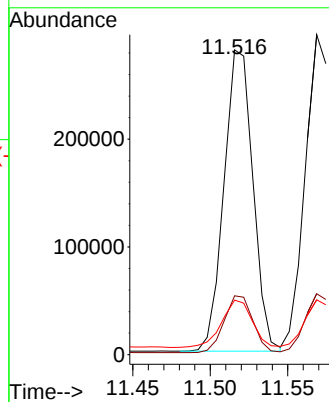
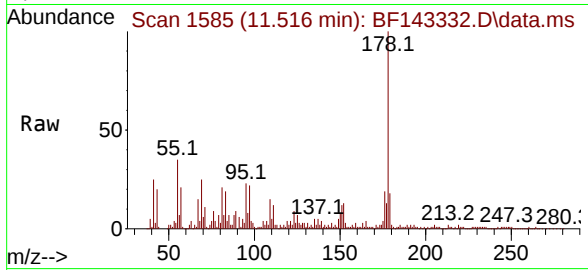




#71
 Phenanthrene
 Concen: 41.891 ng
 RT: 11.516 min Scan# 1584
 Delta R.T. 0.006 min
 Lab File: BF143332.D
 Acq: 06 Aug 2025 16:14

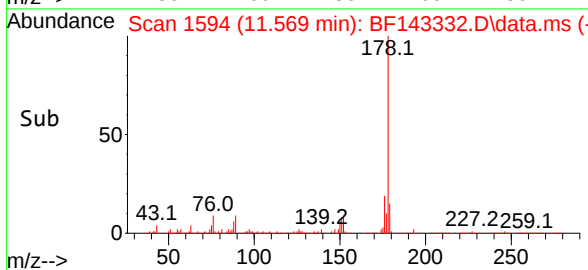
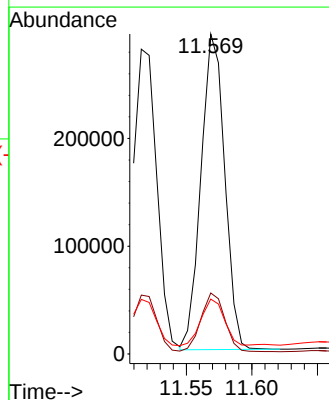
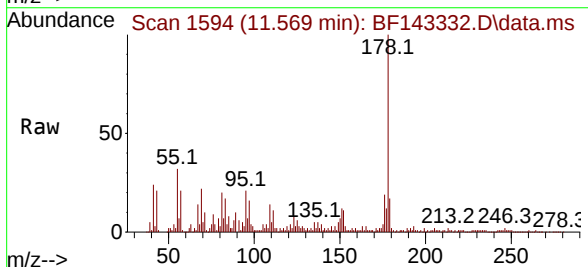
Instrument :
 BNA_F
 ClientSampleId :
 500-3B-SOILMSD

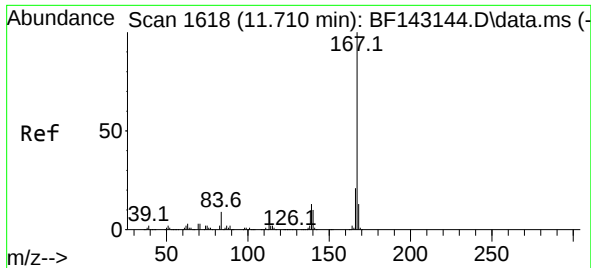
Tgt Ion:178 Resp: 363338
 Ion Ratio Lower Upper
 178 100
 176 19.3 15.3 22.9
 179 17.9 12.5 18.7



#72
 Anthracene
 Concen: 41.782 ng
 RT: 11.569 min Scan# 1594
 Delta R.T. 0.006 min
 Lab File: BF143332.D
 Acq: 06 Aug 2025 16:14

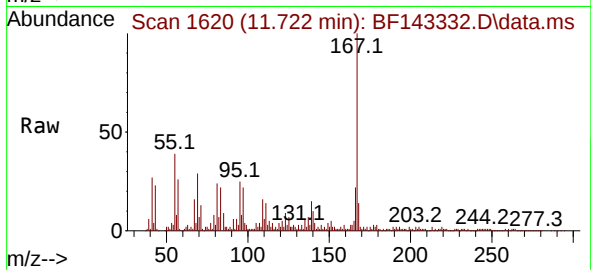
Tgt Ion:178 Resp: 369600
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.0 22.4
 179 17.2 12.5 18.7



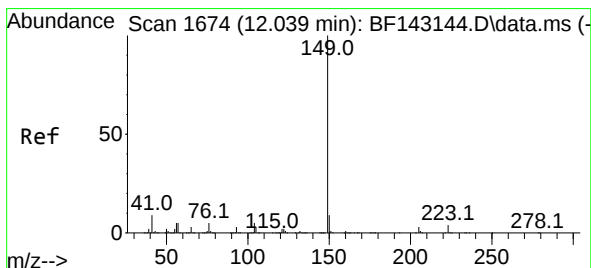
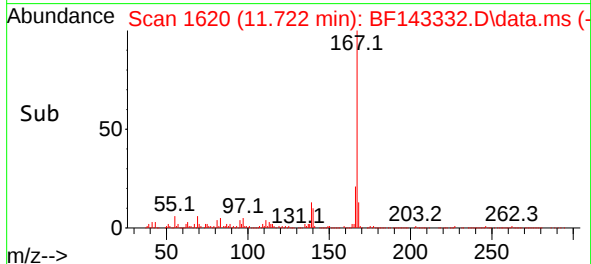
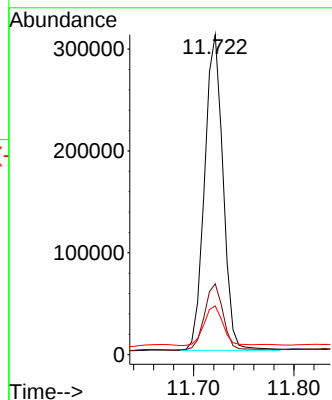


#73
Carbazole
Concen: 51.473 ng
RT: 11.722 min Scan# 1620
Delta R.T. 0.012 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

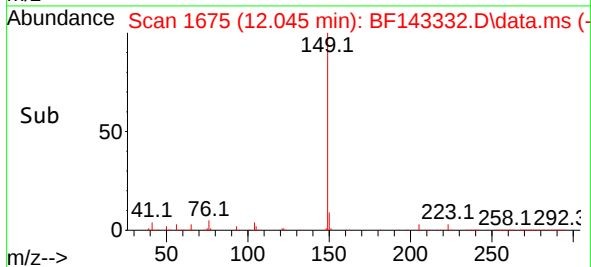
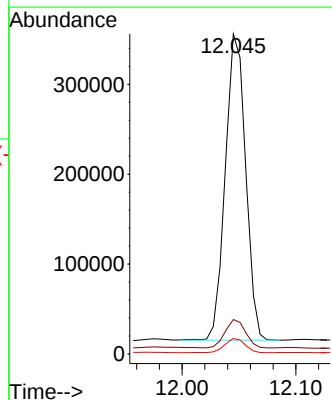
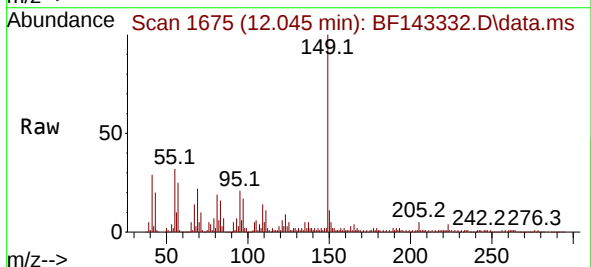


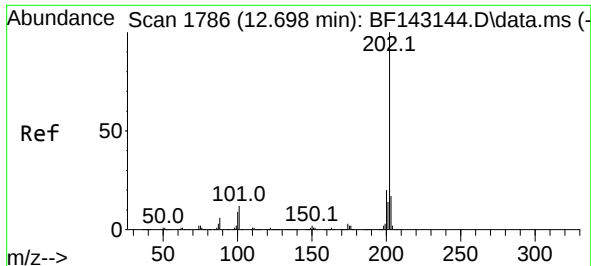
Tgt Ion:167 Resp: 397589
Ion Ratio Lower Upper
167 100
166 22.1 17.0 25.6
139 15.2 10.0 15.0#



#74
Di-n-butylphthalate
Concen: 48.528 ng
RT: 12.045 min Scan# 1675
Delta R.T. 0.006 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:149 Resp: 424129
Ion Ratio Lower Upper
149 100
150 10.8 7.4 11.2
104 4.9 3.8 5.8

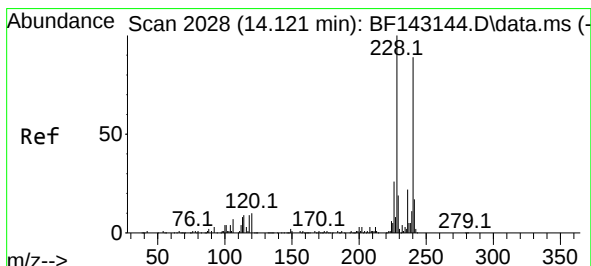
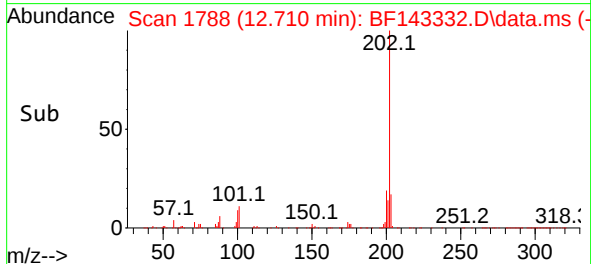
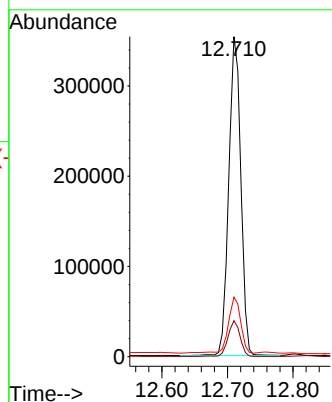
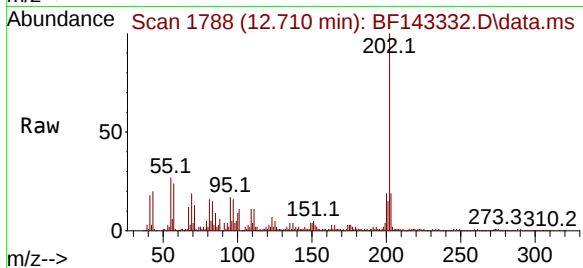




#75
Fluoranthene
Concen: 56.649 ng
RT: 12.710 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

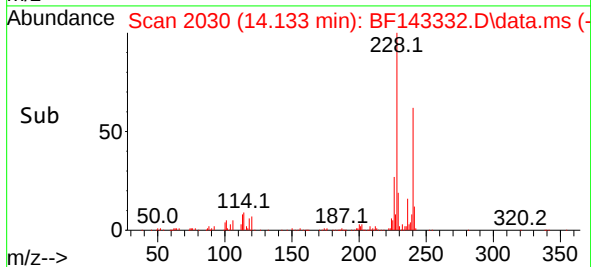
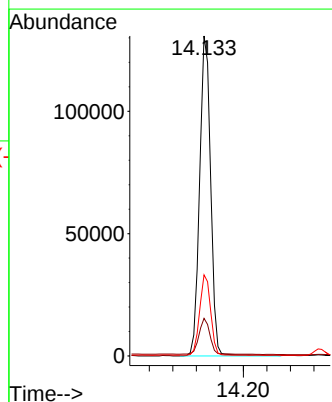
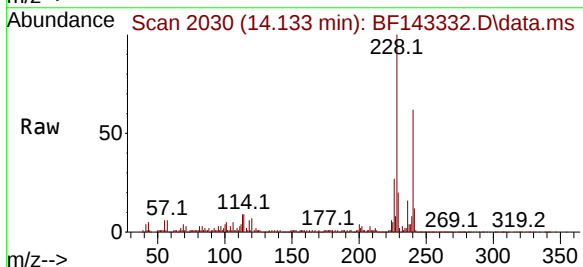
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

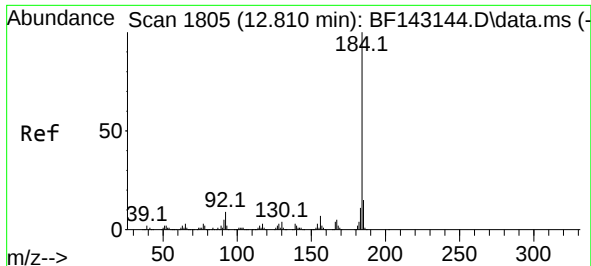
Tgt Ion:202 Resp: 450980
Ion Ratio Lower Upper
202 100
101 11.2 0.0 31.7
203 18.6 0.0 37.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.133 min Scan# 2030
Delta R.T. 0.012 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:240 Resp: 170194
Ion Ratio Lower Upper
240 100
120 11.8 9.4 14.2
236 25.3 20.2 30.4

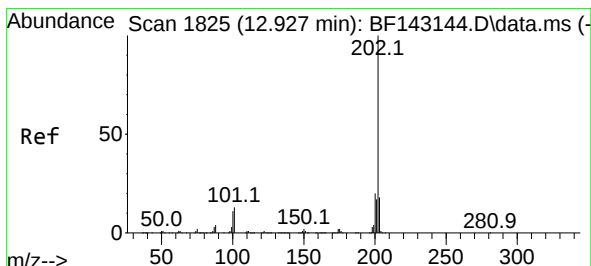
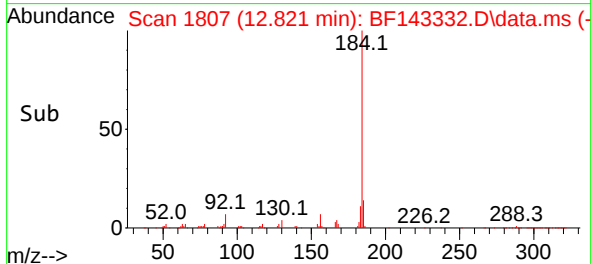
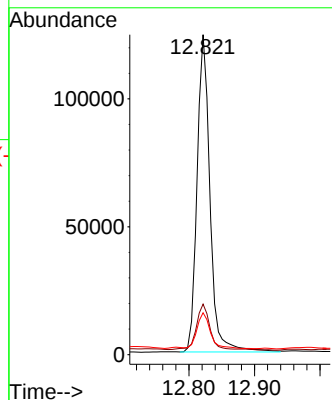
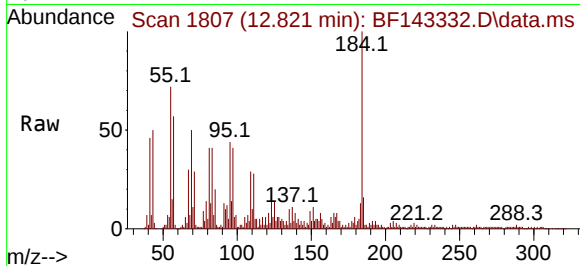




#77
Benzidine
Concen: 25.936 ng
RT: 12.821 min Scan# 1807
Delta R.T. 0.011 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

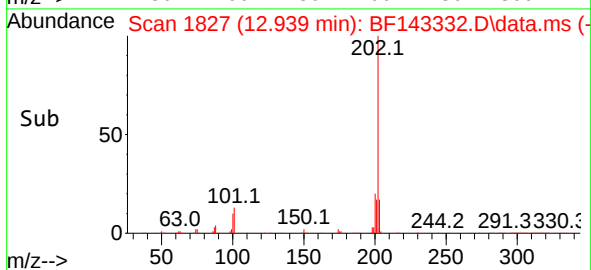
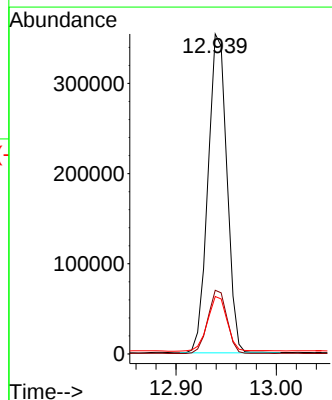
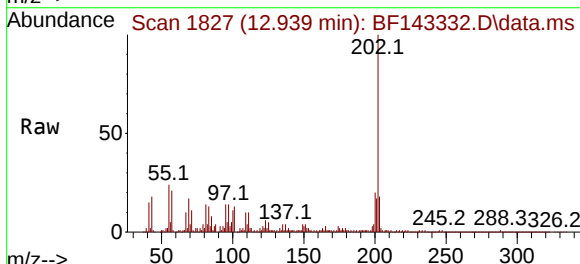
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

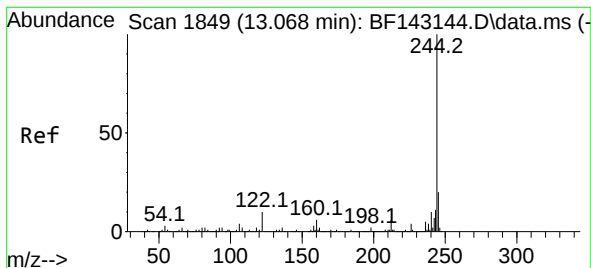
Tgt Ion:184 Resp: 170064
Ion Ratio Lower Upper
184 100
185 15.8 12.2 18.4
183 13.1 9.0 13.4



#78
Pyrene
Concen: 32.026 ng
RT: 12.939 min Scan# 1827
Delta R.T. 0.012 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:202 Resp: 465182
Ion Ratio Lower Upper
202 100
200 19.9 15.7 23.5
203 18.0 14.2 21.2





#79

Terphenyl-d14

Concen: 36.159 ng

RT: 13.074 min Scan# 1849

Delta R.T. 0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

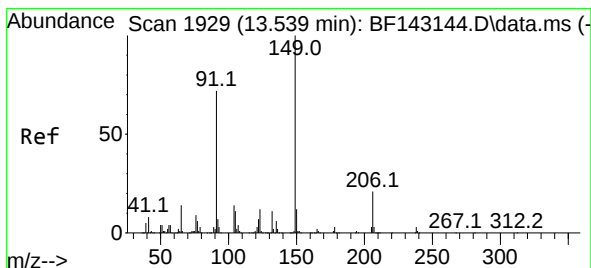
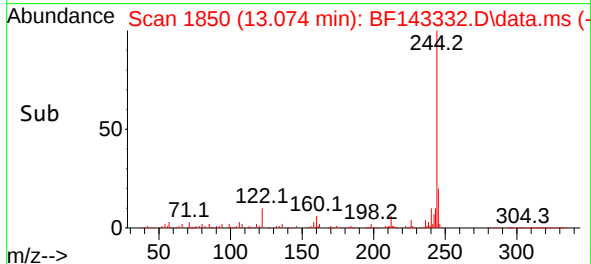
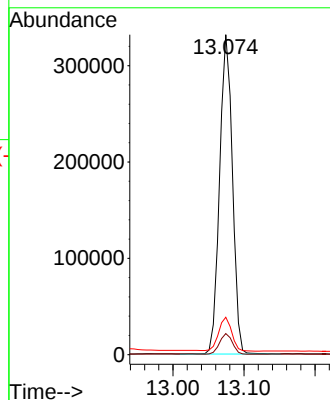
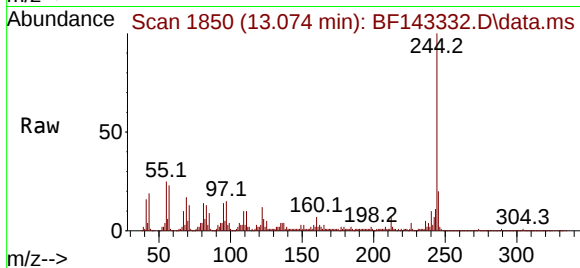
Tgt Ion:244 Resp: 413549

Ion Ratio Lower Upper

244 100

212 6.6 5.2 7.8

122 11.7 8.2 12.2



#80

Butylbenzylphthalate

Concen: 45.831 ng

RT: 13.545 min Scan# 1930

Delta R.T. 0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

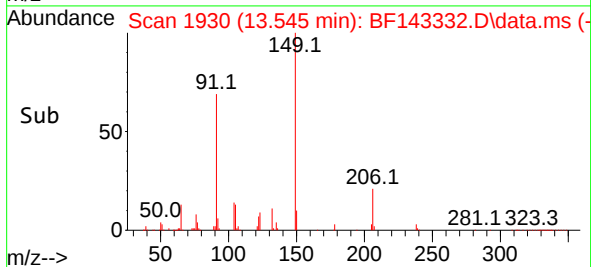
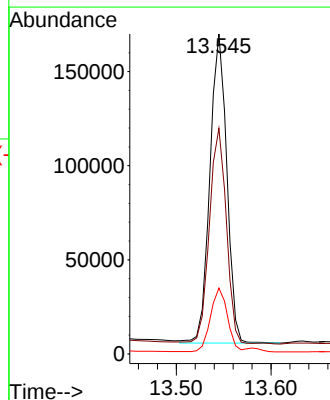
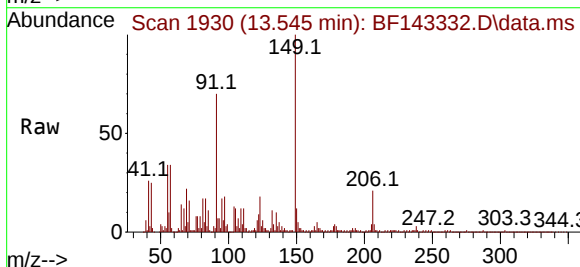
Tgt Ion:149 Resp: 203847

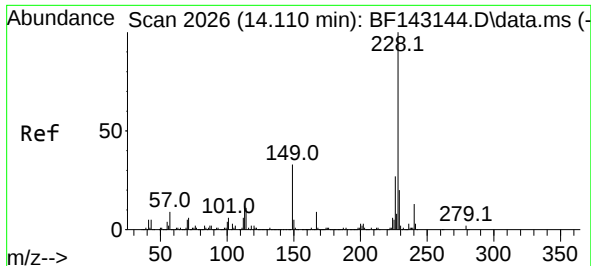
Ion Ratio Lower Upper

149 100

91 70.5 57.9 86.9

206 20.6 17.0 25.4

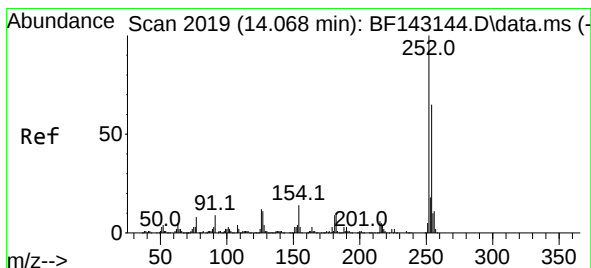
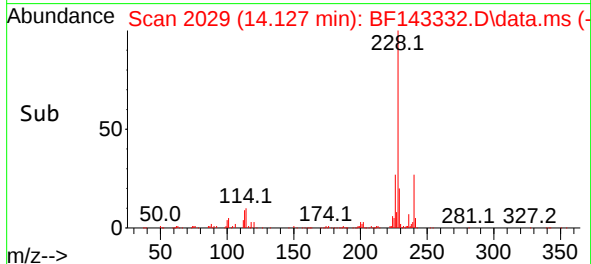
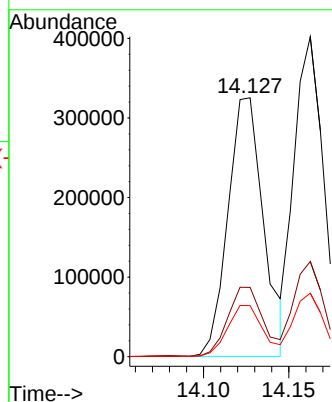
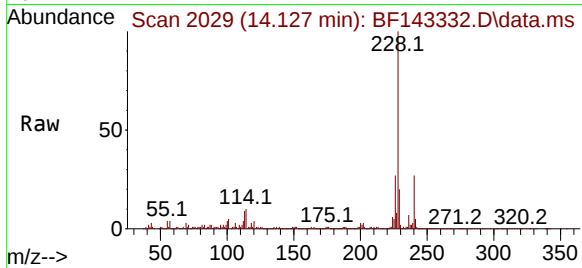




#81
Benzo(a)anthracene
Concen: 41.495 ng
RT: 14.127 min Scan# 2026
Delta R.T. 0.018 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

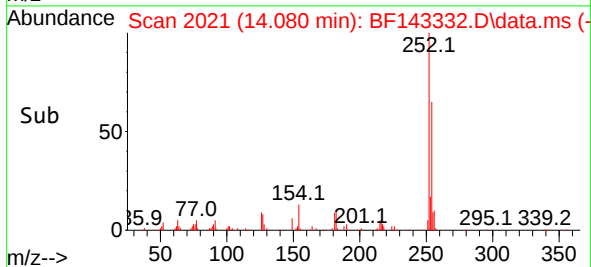
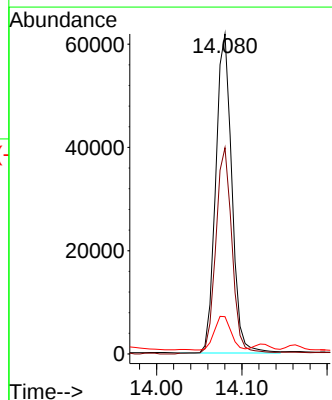
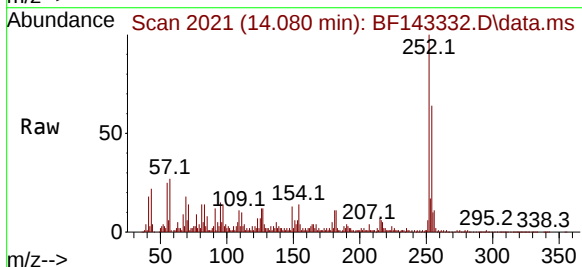
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

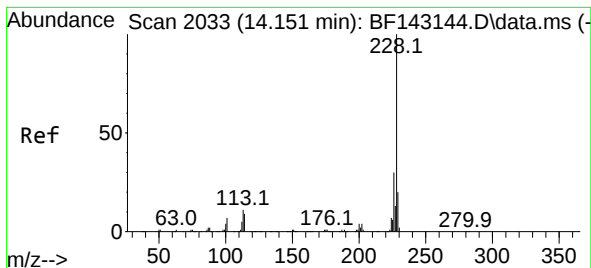
Tgt Ion:228 Resp: 472812
Ion Ratio Lower Upper
228 100
226 26.8 21.7 32.5
229 19.7 15.8 23.6



#82
3,3'-Dichlorobenzidine
Concen: 21.354 ng
RT: 14.080 min Scan# 2021
Delta R.T. 0.012 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:252 Resp: 81094
Ion Ratio Lower Upper
252 100
254 64.4 51.7 77.5
126 11.6 9.4 14.0





#83

Chrysene

Concen: 46.835 ng

RT: 14.163 min Scan# 20

Delta R.T. 0.012 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

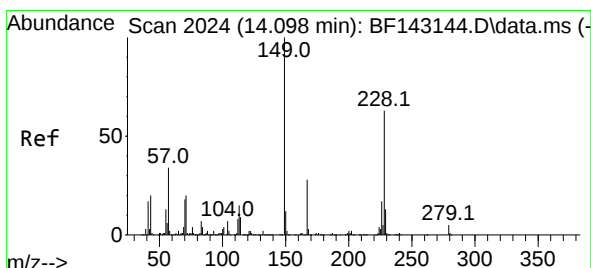
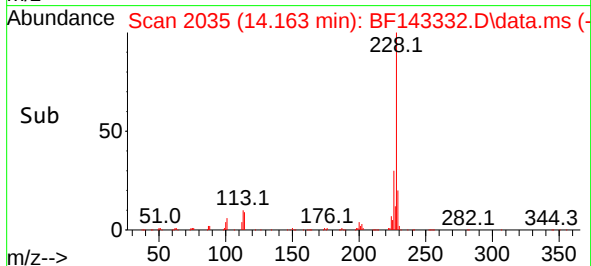
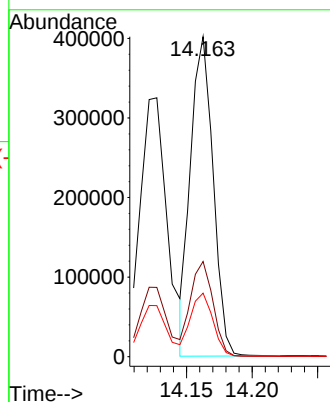
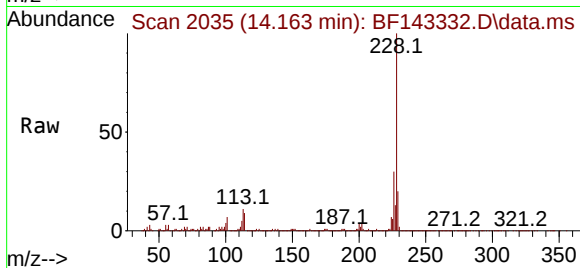
Tgt Ion:228 Resp: 479812

Ion Ratio Lower Upper

228 100

226 29.7 23.8 35.8

229 19.9 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 42.568 ng

RT: 14.104 min Scan# 2025

Delta R.T. 0.006 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

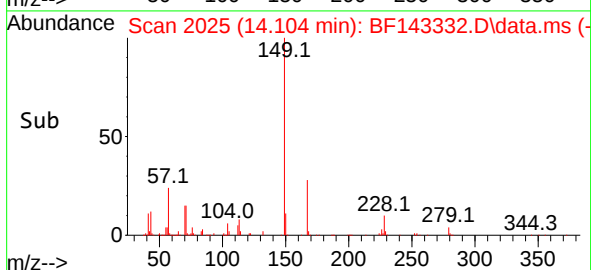
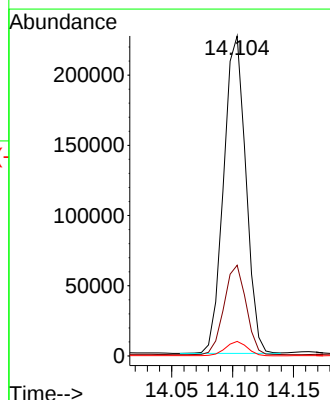
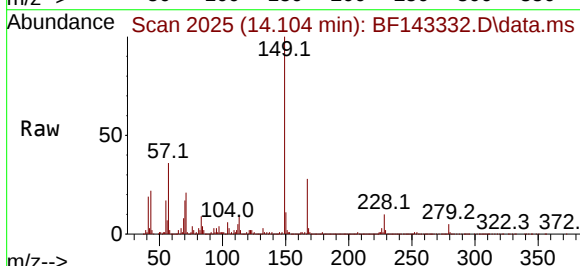
Tgt Ion:149 Resp: 286576

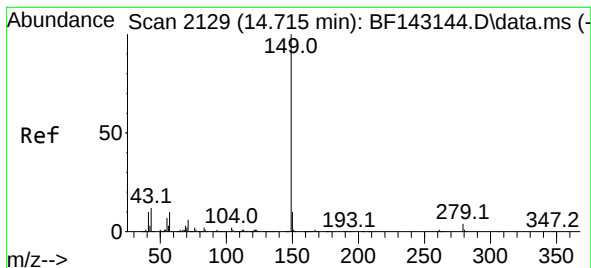
Ion Ratio Lower Upper

149 100

167 28.3 22.3 33.5

279 4.5 3.6 5.4

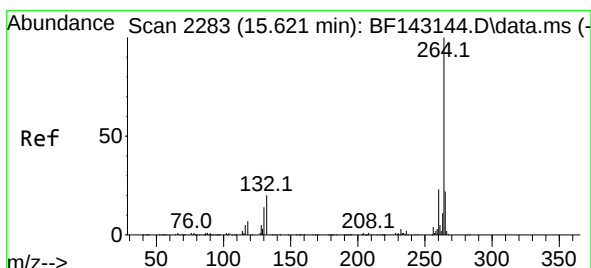
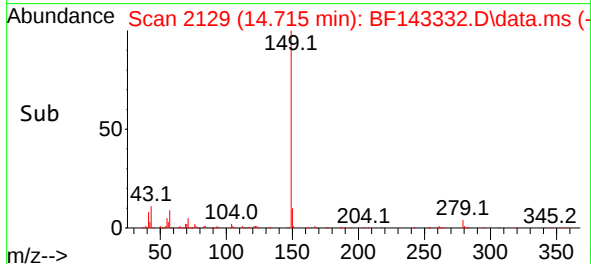
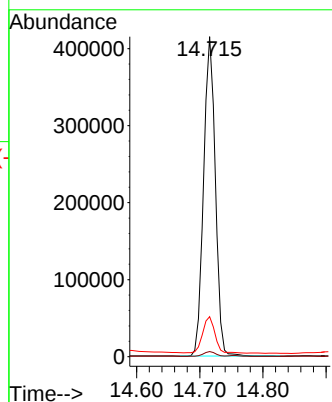
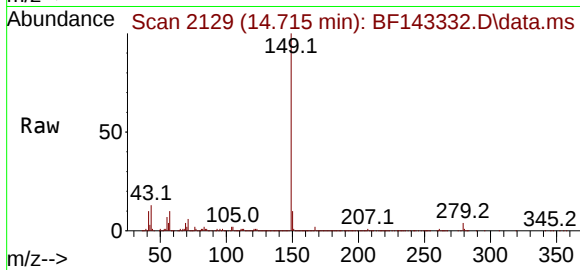




#85
Di-n-octyl phthalate
Concen: 43.836 ng
RT: 14.715 min Scan# 2129
Delta R.T. 0.000 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

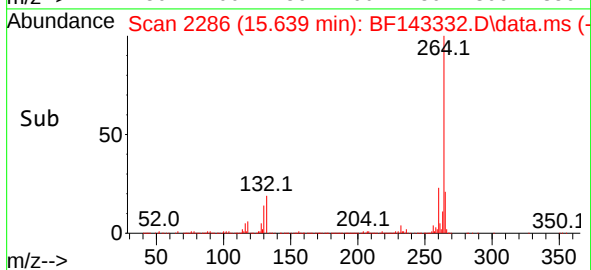
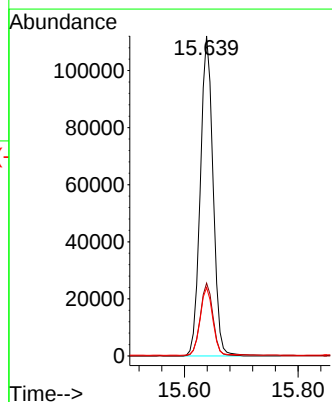
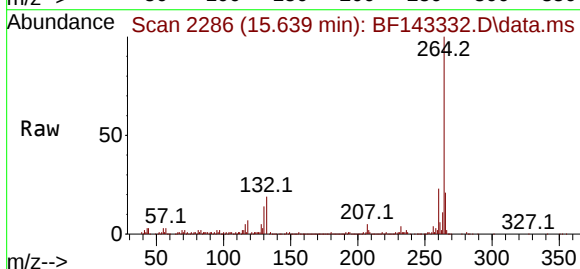
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

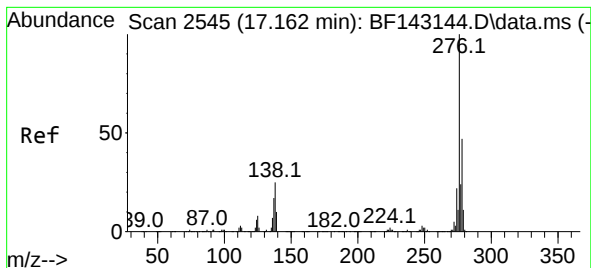
Tgt Ion:149 Resp: 534925
Ion Ratio Lower Upper
149 100
167 1.5 1.1 1.7
43 12.0 9.7 14.5



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.639 min Scan# 2286
Delta R.T. 0.018 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:264 Resp: 175230
Ion Ratio Lower Upper
264 100
260 22.8 18.5 27.7
265 21.3 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 26.923 ng

RT: 17.186 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

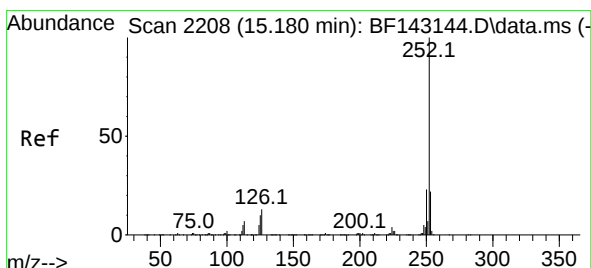
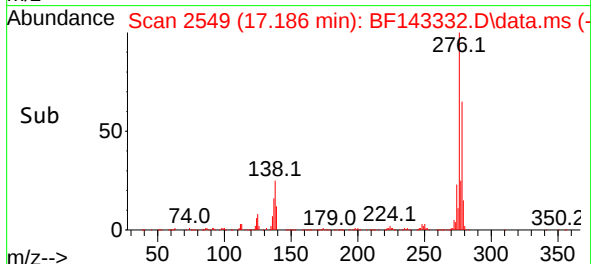
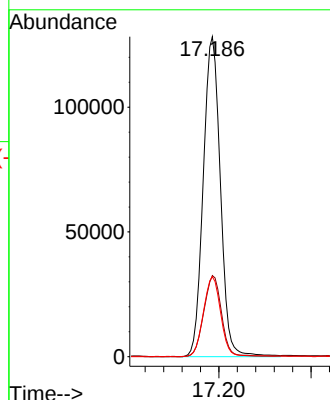
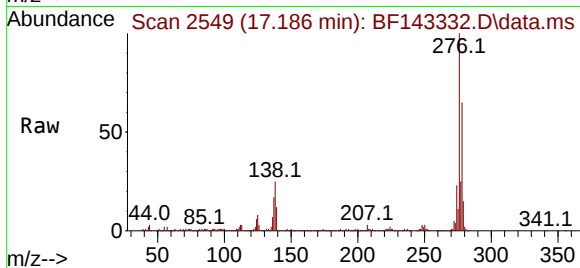
Tgt Ion:276 Resp: 332659

Ion Ratio Lower Upper

276 100

138 26.2 21.8 32.6

277 25.2 20.0 30.0



#88

Benzo(b)fluoranthene

Concen: 43.382 ng

RT: 15.192 min Scan# 2210

Delta R.T. 0.012 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

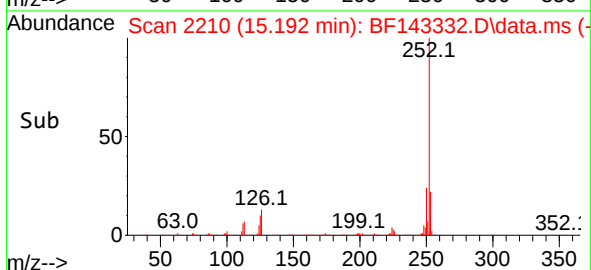
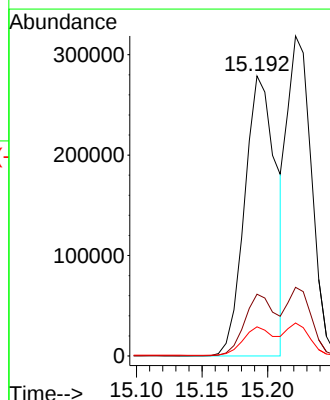
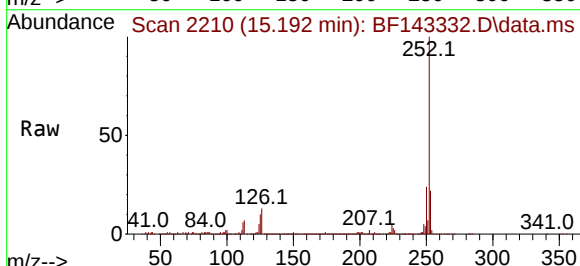
Tgt Ion:252 Resp: 464406

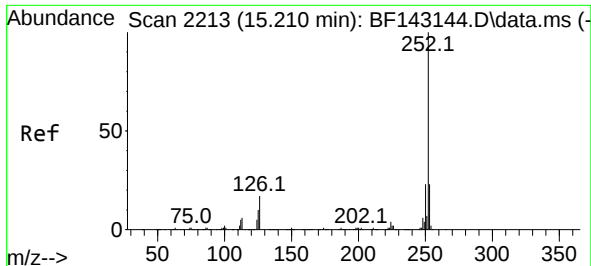
Ion Ratio Lower Upper

252 100

253 22.1 17.5 26.3

125 10.4 8.0 12.0

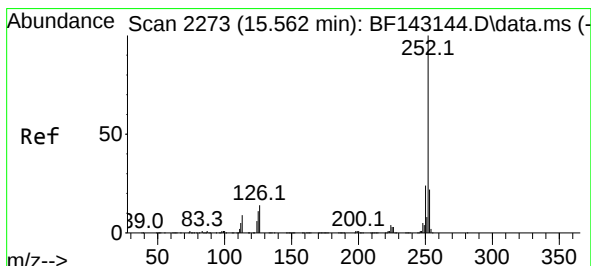
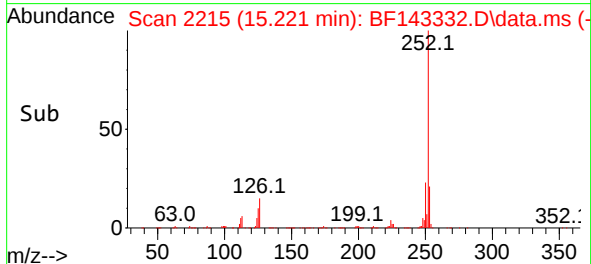
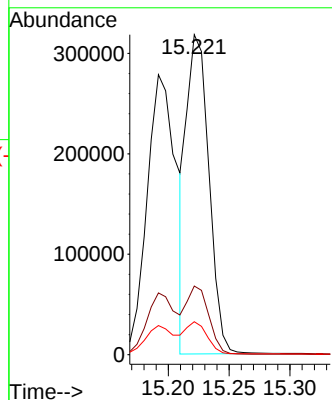
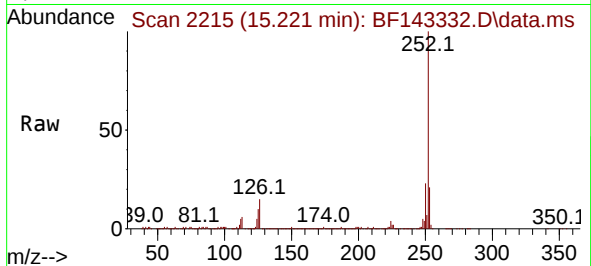




#89
Benzo(k)fluoranthene
Concen: 42.654 ng
RT: 15.221 min Scan# 211
Delta R.T. 0.012 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

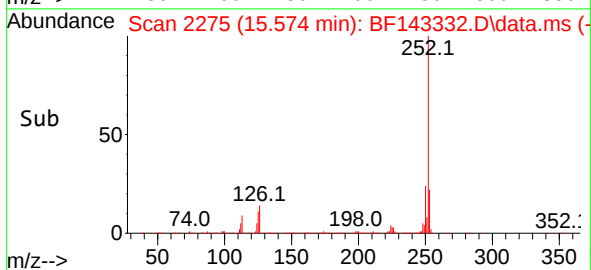
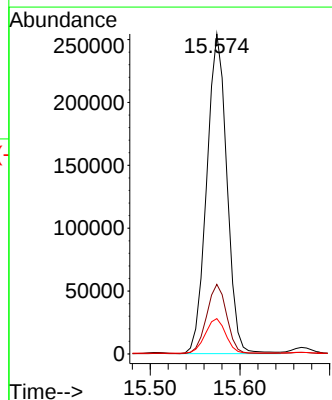
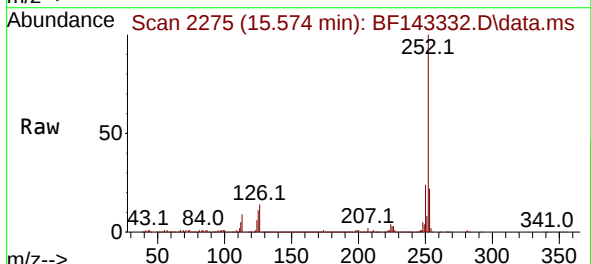
Instrument :
BNA_F
ClientSampleId :
500-3B-SOILMSD

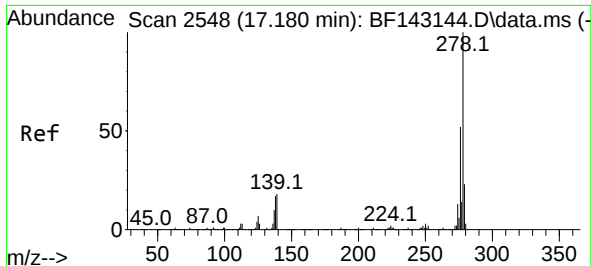
Tgt Ion:252 Resp: 407456
Ion Ratio Lower Upper
252 100
253 21.4 17.8 26.6
125 10.3 8.1 12.1



#90
Benzo(a)pyrene
Concen: 40.193 ng
RT: 15.574 min Scan# 2275
Delta R.T. 0.012 min
Lab File: BF143332.D
Acq: 06 Aug 2025 16:14

Tgt Ion:252 Resp: 396424
Ion Ratio Lower Upper
252 100
253 21.7 17.3 25.9
125 11.0 8.6 13.0





#91

Dibenzo(a,h)anthracene

Concen: 27.254 ng

RT: 17.198 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Instrument :

BNA_F

ClientSampleId :

500-3B-SOILMSD

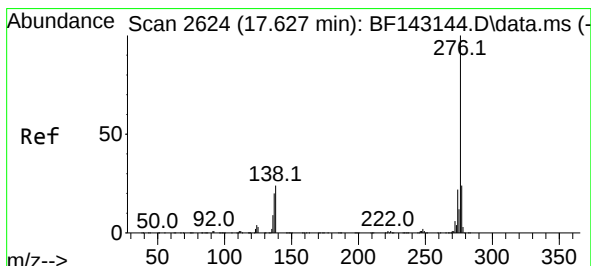
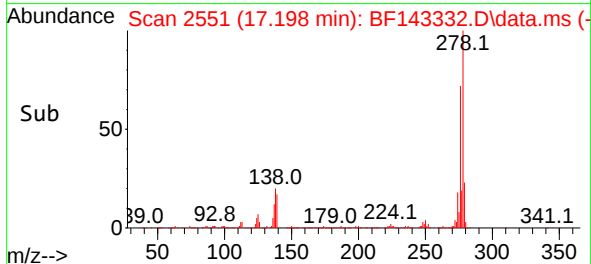
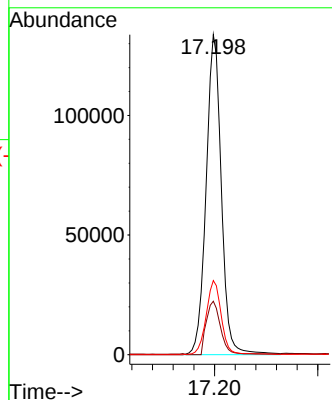
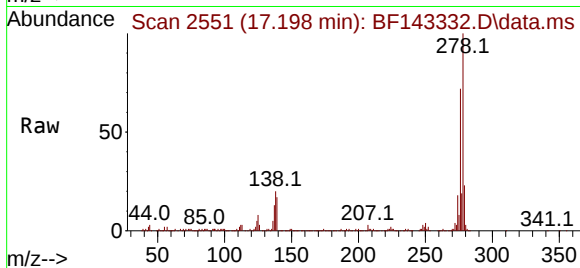
Tgt Ion:278 Resp: 274095

Ion Ratio Lower Upper

278 100

139 16.7 14.1 21.1

279 23.1 18.6 28.0



#92

Benzo(g,h,i)perylene

Concen: 26.058 ng

RT: 17.651 min Scan# 2628

Delta R.T. 0.024 min

Lab File: BF143332.D

Acq: 06 Aug 2025 16:14

Tgt Ion:276 Resp: 253504

Ion Ratio Lower Upper

276 100

277 23.0 19.1 28.7

138 22.2 18.9 28.3

