

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF111125\
 Data File : BF144214.D
 Acq On : 11 Nov 2025 20:58
 Operator : RC/JU
 Sample : Q3599-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LIVINGSTON-SOIL

Quant Time: Nov 12 03:45:59 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF110525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 05 18:37:33 2025
 Response via : Initial Calibration

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

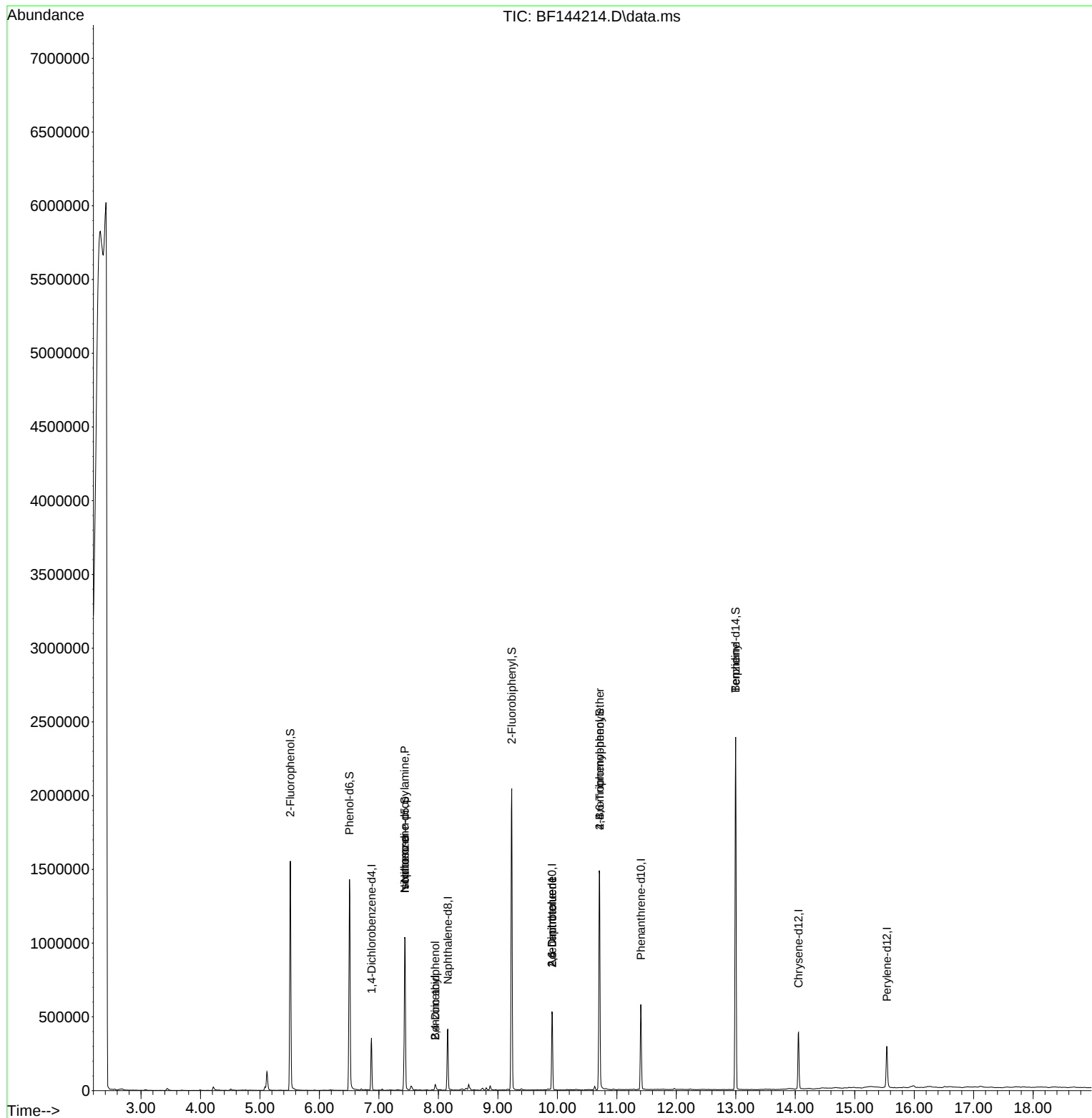
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	72199	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	279903	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	169807	20.000	ng	0.00
64) Phenanthrene-d10	11.404	188	316465	20.000	ng	0.00
76) Chrysene-d12	14.057	240	207438	20.000	ng	0.00
86) Perylene-d12	15.539	264	192581	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	587543	127.347	ng	0.02
7) Phenol-d6	6.504	99	635749	121.611	ng	0.00
23) Nitrobenzene-d5	7.433	82	461640	95.254	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	327096	153.503	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	982916	85.491	ng	0.00
79) Terphenyl-d14	12.998	244	1296983	99.313	ng	0.00
Target Compounds						
					Qvalue	
19) n-Nitroso-di-n-propyla...	7.433	70	71765	20.853	ng	# 76
25) Isophorone	7.433	82	461635	50.358	ng	# 67
27) 2,4-Dimethylphenol	7.945	122	16021	4.104	ng	# 87
32) Benzoic acid	7.945	122	16021	5.598	ng	# 14
51) 2,6-Dinitrotoluene	9.910	165	21615	9.492	ng	# 28
57) 2,4-Dinitrotoluene	9.910	165	21615	7.090	ng	# 29
67) 4-Bromophenyl-phenylether	10.710	248	18427	4.562	ng	# 1
77) Benzidine	12.998	184	14683	2.393	ng	# 93

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

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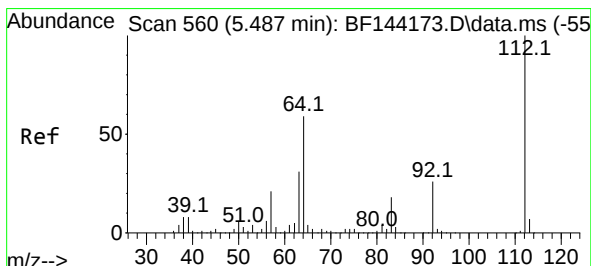
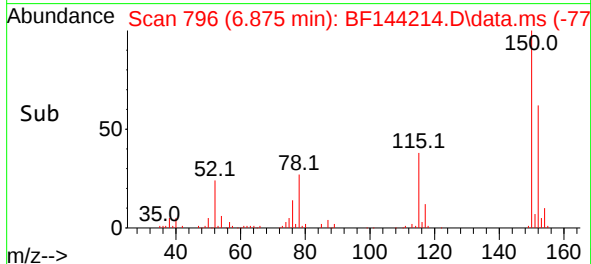
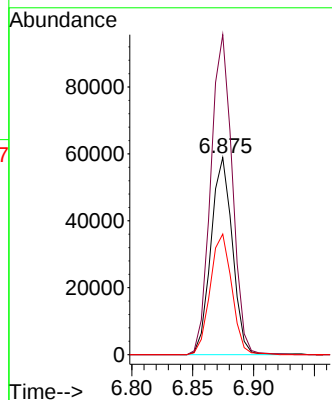
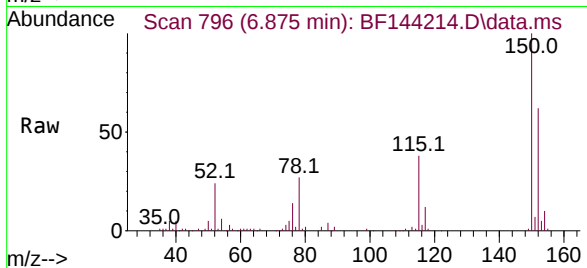




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 796
Delta R.T. -0.000 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

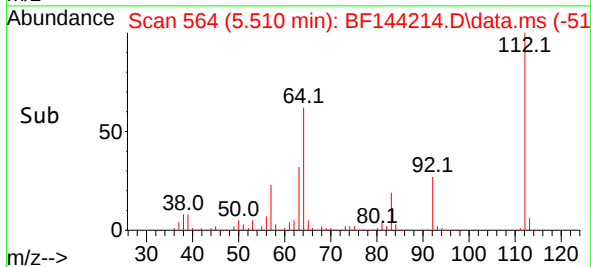
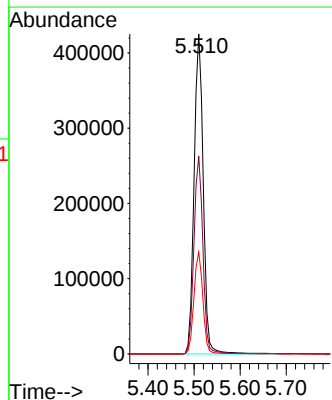
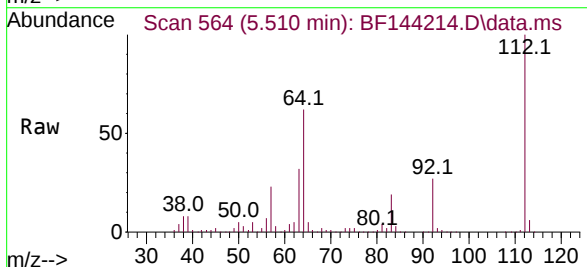
Instrument :
BNA_F
ClientSampleId :
LIVINGSTON-SOIL

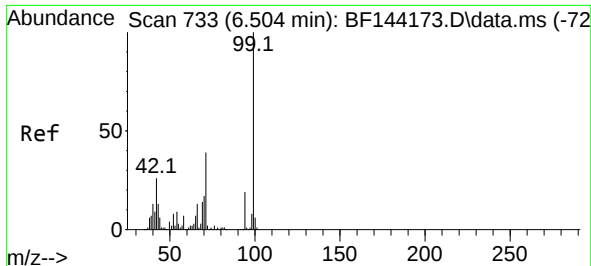
Tgt Ion:152 Resp: 72199
Ion Ratio Lower Upper
152 100
150 162.4 127.4 191.0
115 61.2 49.5 74.3



#5
2-Fluorophenol
Concen: 127.347 ng
RT: 5.510 min Scan# 564
Delta R.T. 0.017 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

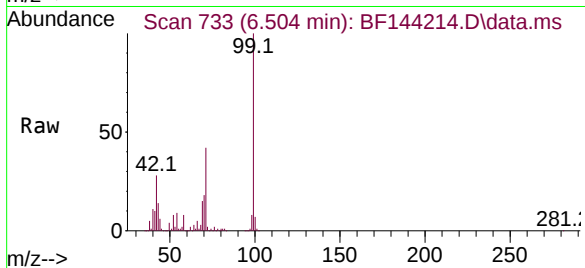
Tgt Ion:112 Resp: 587543
Ion Ratio Lower Upper
112 100
64 61.7 47.2 70.8
63 31.8 24.4 36.6



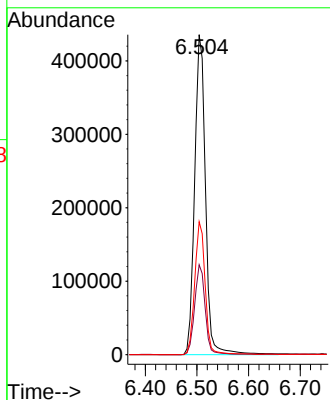
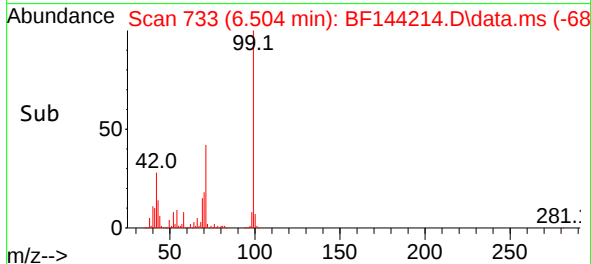


#7
Phenol-d6
Concen: 121.611 ng
RT: 6.504 min Scan# 733
Delta R.T. 0.006 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

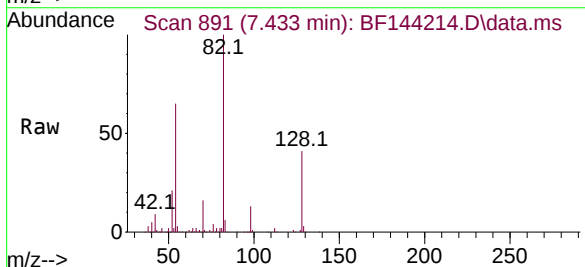
Instrument :
BNA_F
ClientSampleId :
LIVINGSTON-SOIL



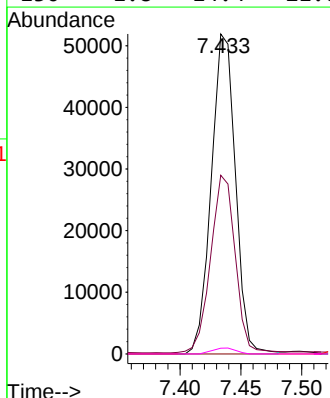
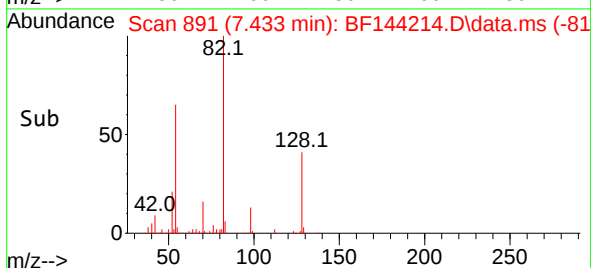
Tgt Ion: 99 Resp: 635749
Ion Ratio Lower Upper
99 100
42 28.1 20.9 31.3
71 41.5 31.4 47.2

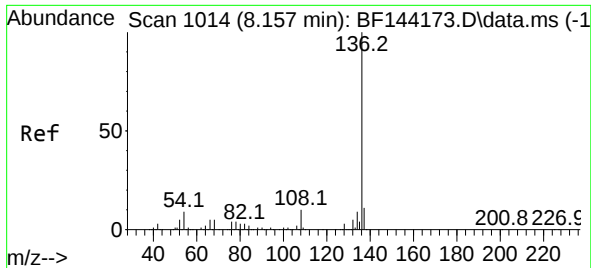


#19
n-Nitroso-di-n-propylamine
Concen: 20.853 ng
RT: 7.433 min Scan# 891
Delta R.T. 0.159 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58



Tgt Ion: 70 Resp: 71765
Ion Ratio Lower Upper
70 100
42 55.8 58.3 87.5#
101 0.0 7.0 10.6#
130 1.8 14.4 21.6#

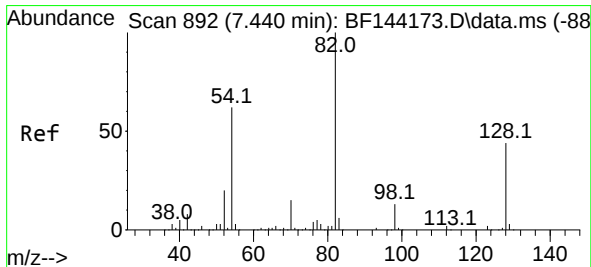
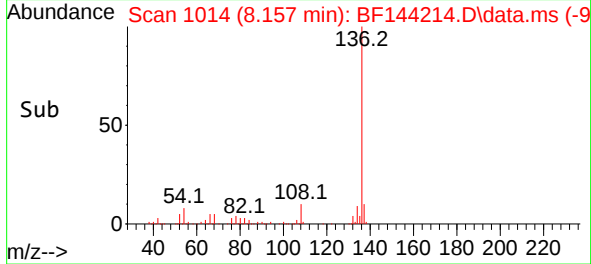
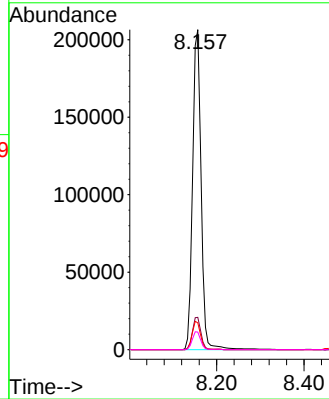
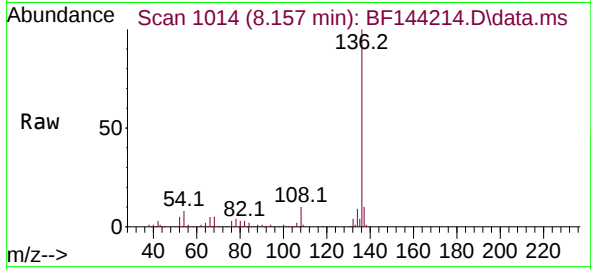




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1014
Delta R.T. -0.000 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

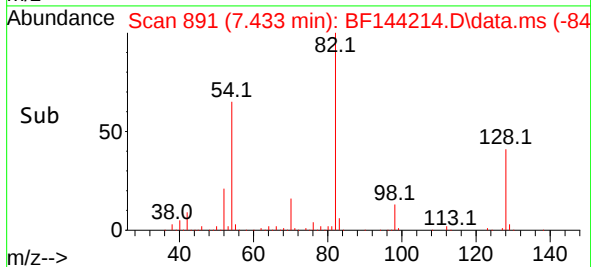
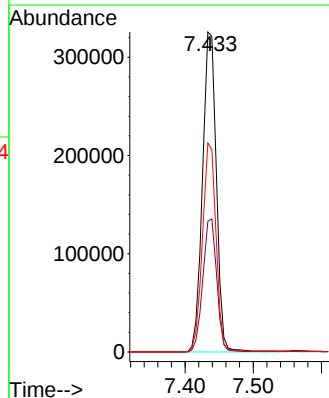
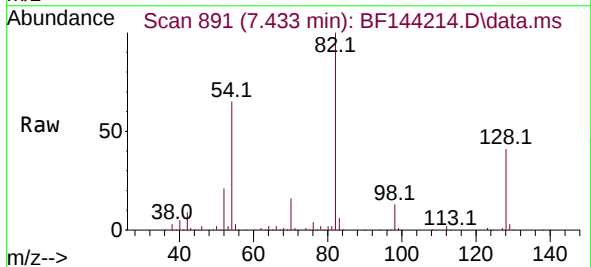
Instrument :
BNA_F
ClientSampleId :
LIVINGSTON-SOIL

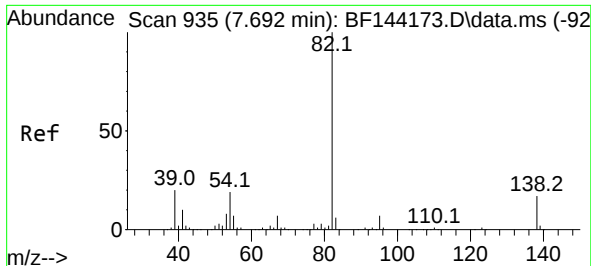
Tgt Ion:	136	Resp:	279903
Ion	Ratio	Lower	Upper
136	100		
137	10.1	8.6	13.0
54	8.4	7.0	10.6
68	5.5	4.3	6.5



#23
Nitrobenzene-d5
Concen: 95.254 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.000 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

Tgt Ion:	82	Resp:	461640
Ion	Ratio	Lower	Upper
82	100		
128	40.8	34.7	52.1
54	65.2	49.5	74.3

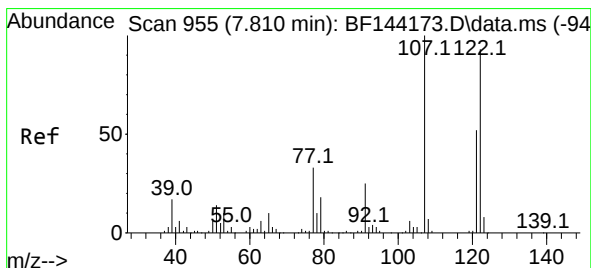
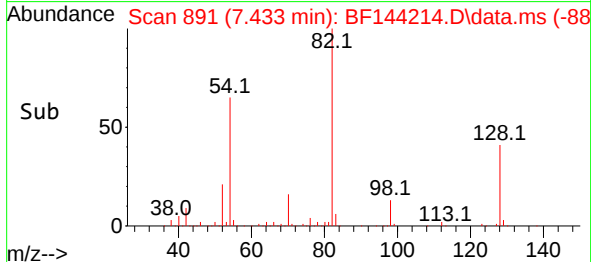
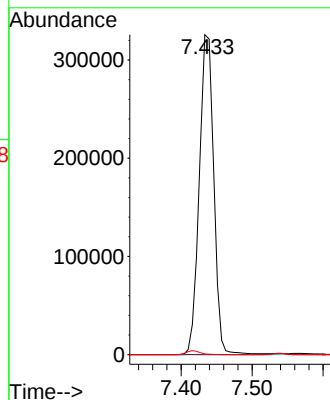
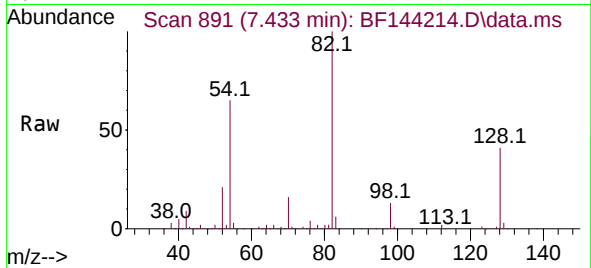




#25
Isophorone
Concen: 50.358 ng
RT: 7.433 min Scan# 891
Delta R.T. -0.253 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

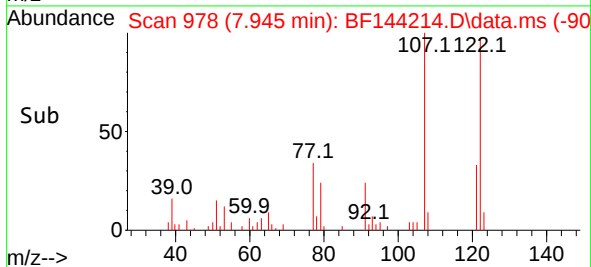
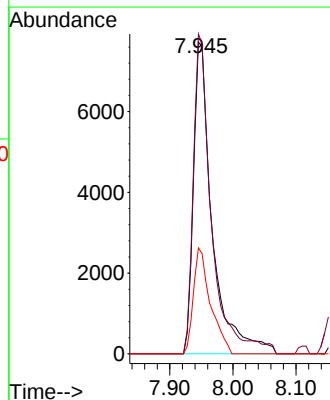
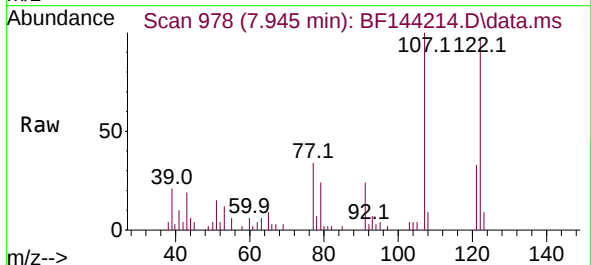
Instrument :
BNA_F
ClientSampleId :
LIVINGSTON-SOIL

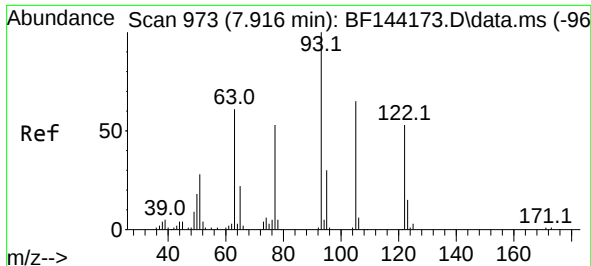
Tgt Ion: 82 Resp: 461635
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.3 13.7 20.5#



#27
2,4-Dimethylphenol
Concen: 4.104 ng
RT: 7.945 min Scan# 978
Delta R.T. 0.141 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

Tgt Ion: 122 Resp: 16021
Ion Ratio Lower Upper
122 100
107 102.6 86.2 129.4
121 34.0 44.6 66.8#

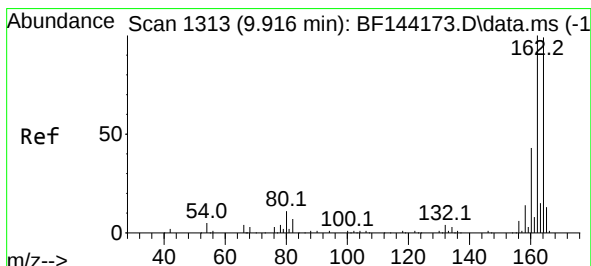
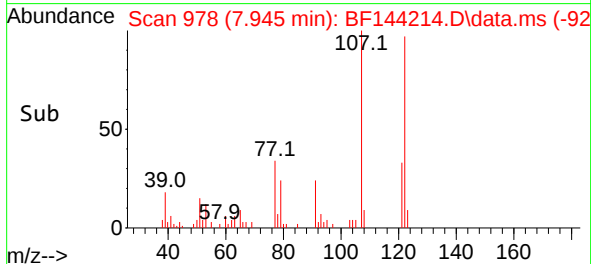
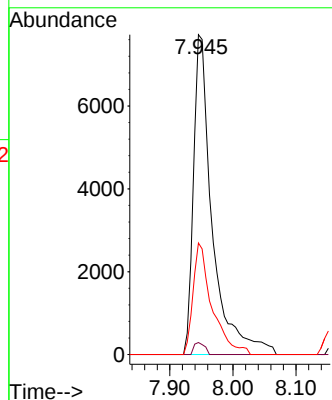
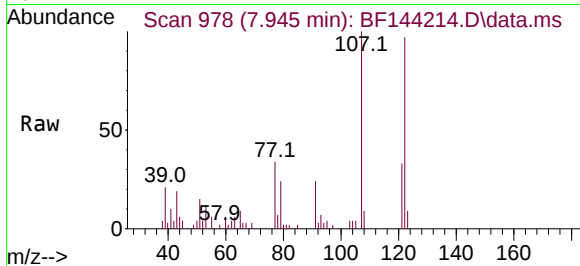




#32
Benzoic acid
Concen: 5.598 ng
RT: 7.945 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

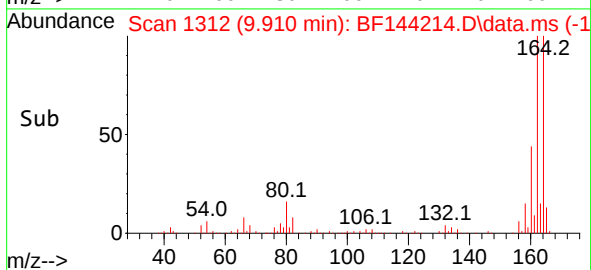
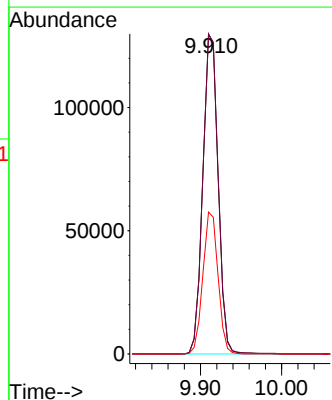
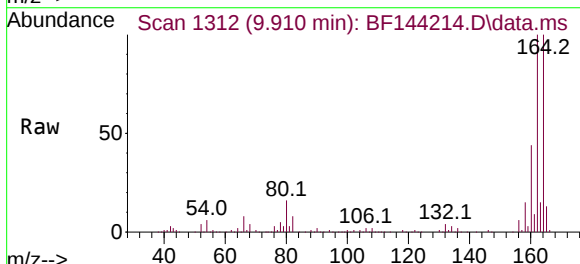
Instrument :
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ClientSampleId :
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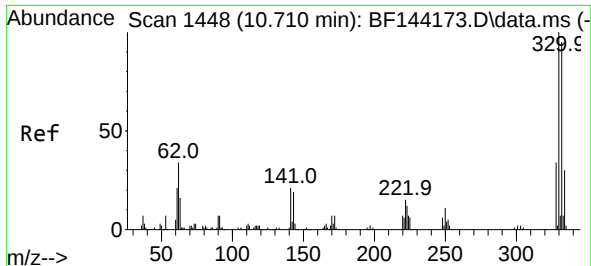
Tgt Ion:122 Resp: 16021
Ion Ratio Lower Upper
122 100
105 3.8 99.9 139.9#
77 34.9 77.5 117.5#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1312
Delta R.T. -0.006 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

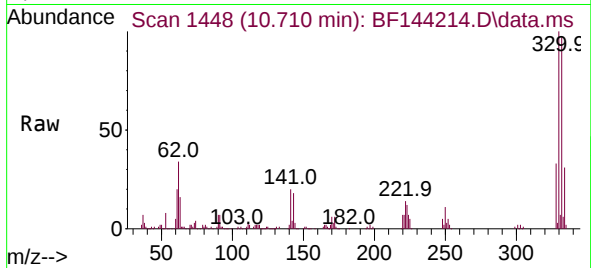
Tgt Ion:164 Resp: 169807
Ion Ratio Lower Upper
164 100
162 99.9 81.1 121.7
160 44.3 34.5 51.7



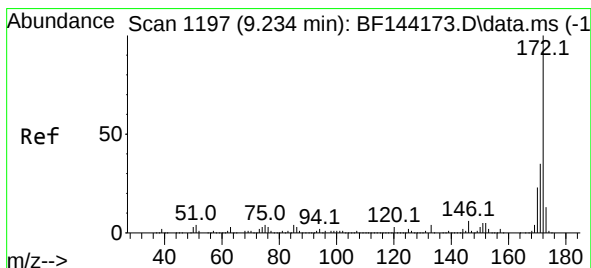
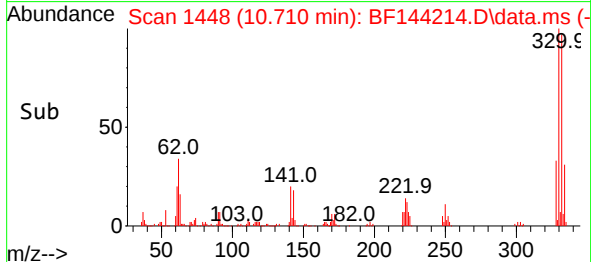
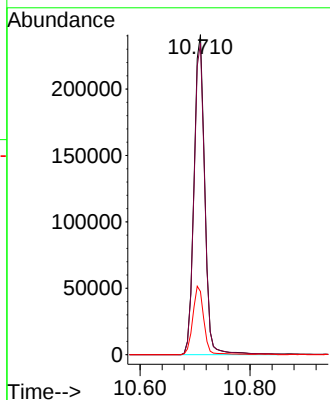


#42
2,4,6-Tribromophenol
Concen: 153.503 ng
RT: 10.710 min Scan# 1448
Delta R.T. 0.006 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

Instrument :
BNA_F
ClientSampleId :
LIVINGSTON-SOIL

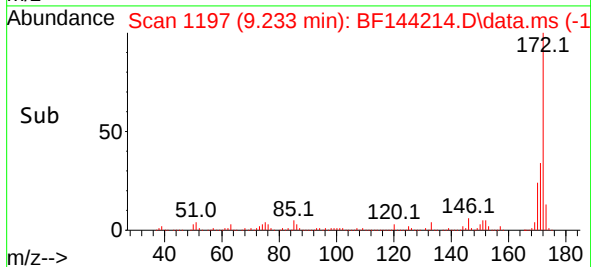
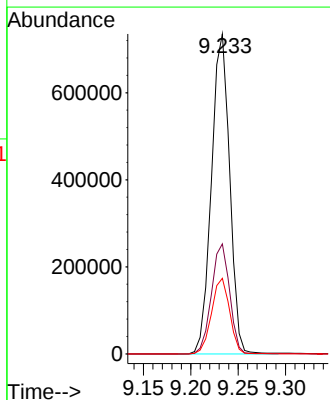
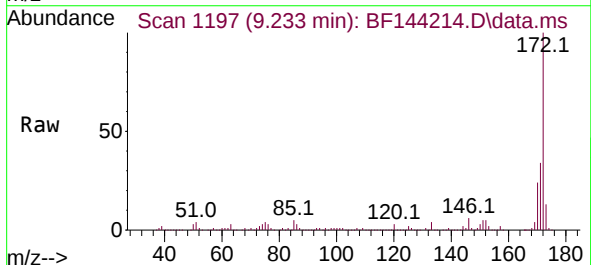


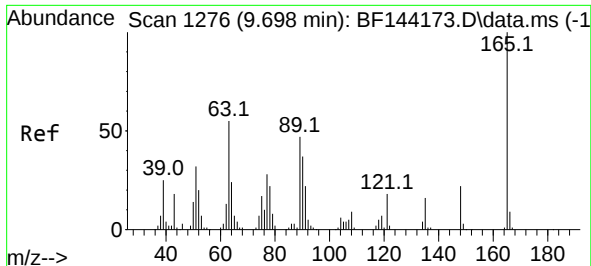
Tgt Ion:330 Resp: 327096
Ion Ratio Lower Upper
330 100
332 97.7 76.7 115.1
141 21.9 17.8 26.8



#45
2-Fluorobiphenyl
Concen: 85.491 ng
RT: 9.233 min Scan# 1197
Delta R.T. 0.006 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

Tgt Ion:172 Resp: 982916
Ion Ratio Lower Upper
172 100
171 34.4 28.1 42.1
170 23.6 18.6 28.0





#51

2,6-Dinitrotoluene

Concen: 9.492 ng

RT: 9.910 min Scan# 1312

Delta R.T. 0.217 min

Lab File: BF144214.D

Acq: 11 Nov 2025 20:58

Instrument :

BNA_F

ClientSampleId :

LIVINGSTON-SOIL

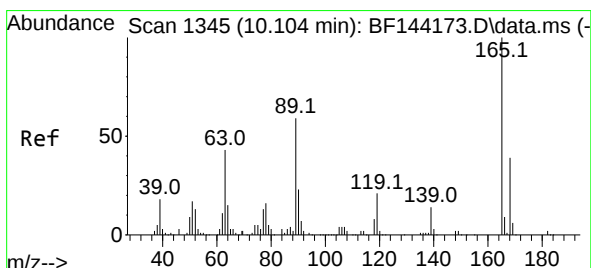
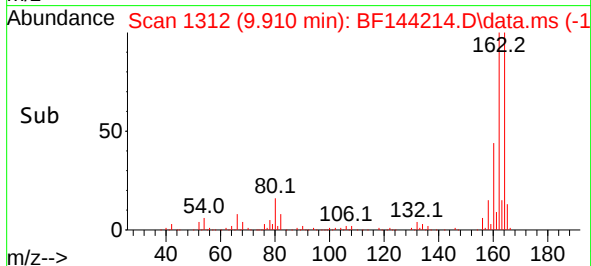
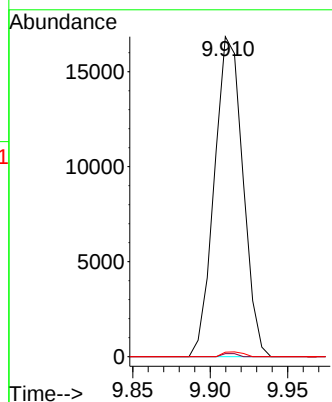
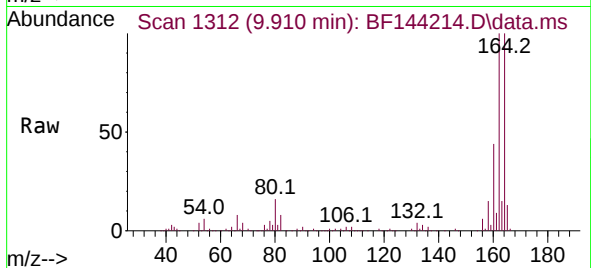
Tgt Ion:165 Resp: 21615

Ion Ratio Lower Upper

165 100

63 0.9 43.8 65.8#

89 1.4 37.5 56.3#



#57

2,4-Dinitrotoluene

Concen: 7.090 ng

RT: 9.910 min Scan# 1312

Delta R.T. -0.188 min

Lab File: BF144214.D

Acq: 11 Nov 2025 20:58

Tgt Ion:165 Resp: 21615

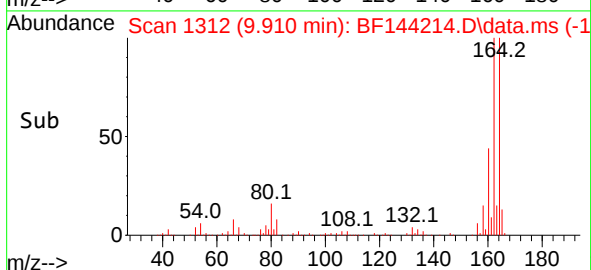
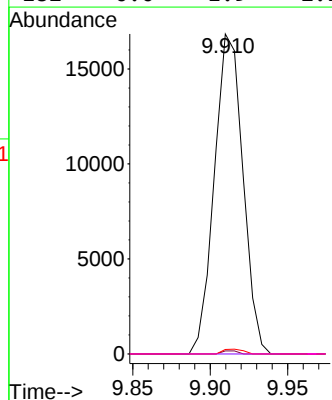
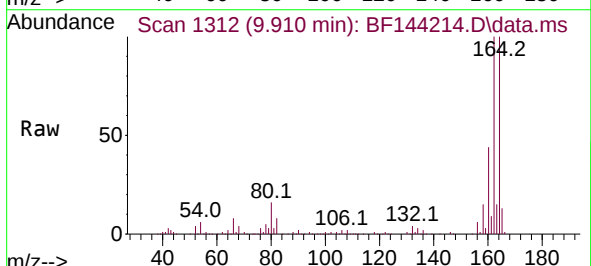
Ion Ratio Lower Upper

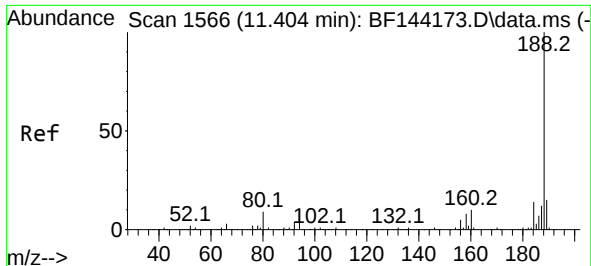
165 100

63 0.9 35.5 53.3#

89 1.4 47.4 71.2#

182 0.0 1.9 2.9#

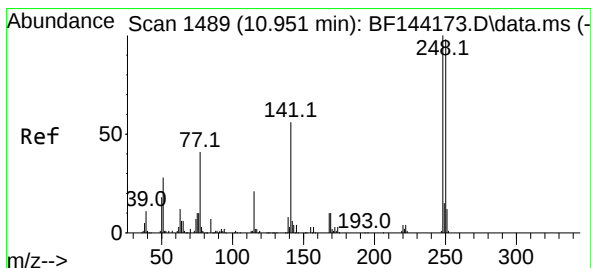
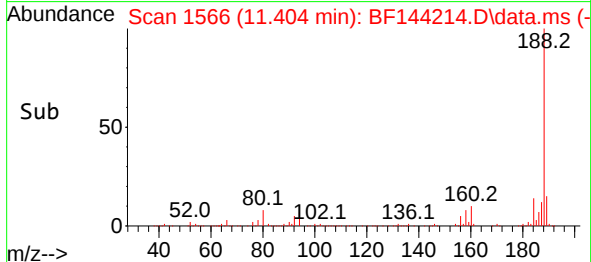
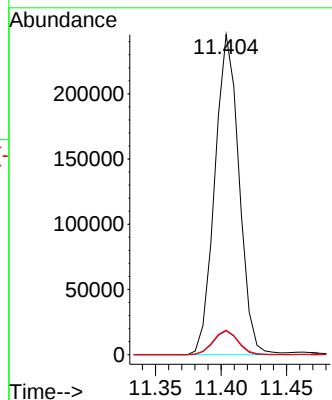
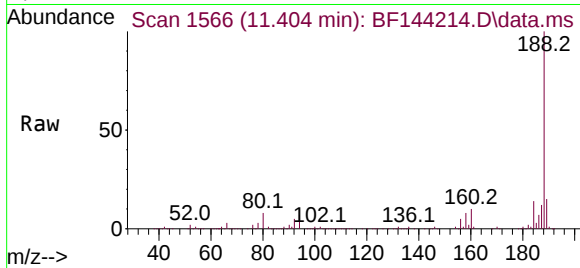




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.404 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

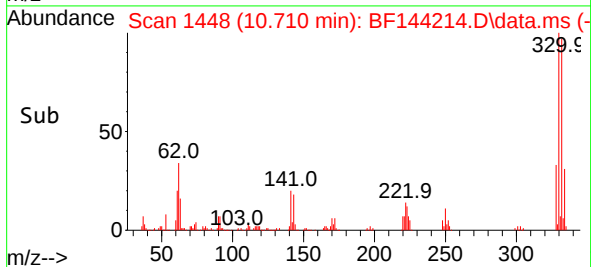
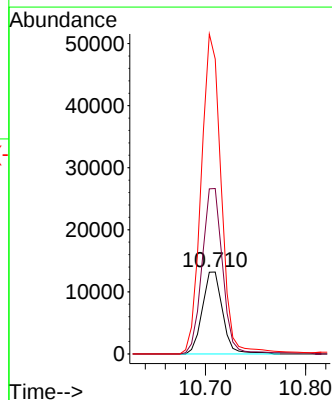
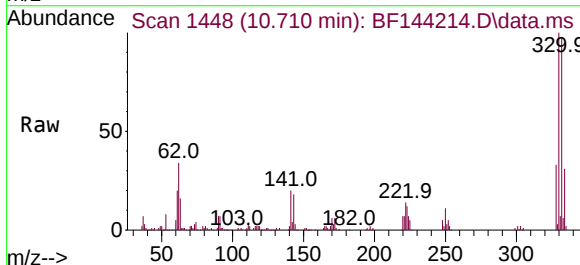
Instrument :
BNA_F
ClientSampleId :
LIVINGSTON-SOIL

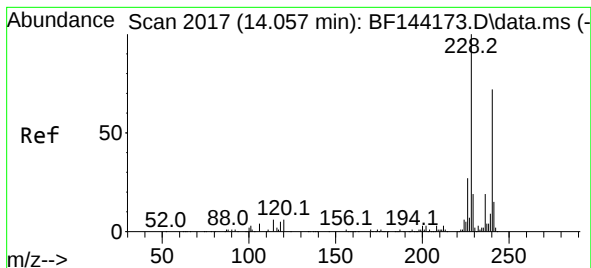
Tgt Ion:188 Resp: 316465
Ion Ratio Lower Upper
188 100
94 7.4 6.2 9.2
80 7.7 6.9 10.3



#67
4-Bromophenyl-phenylether
Concen: 4.562 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.236 min
Lab File: BF144214.D
Acq: 11 Nov 2025 20:58

Tgt Ion:248 Resp: 18427
Ion Ratio Lower Upper
248 100
250 201.9 78.4 117.6#
141 359.8 45.1 67.7#





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF144214.D

Acq: 11 Nov 2025 20:58

Instrument :

BNA_F

ClientSampleId :

LIVINGSTON-SOIL

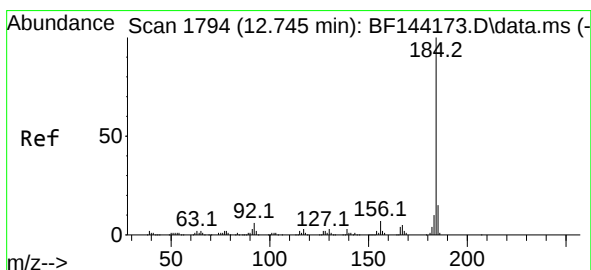
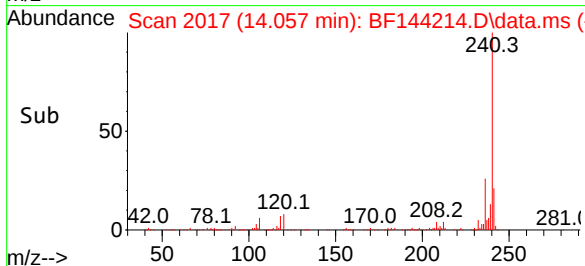
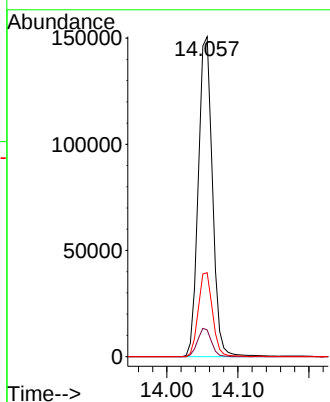
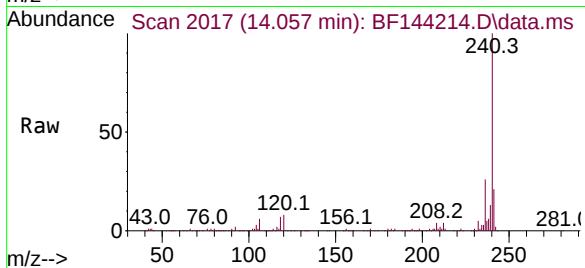
Tgt Ion:240 Resp: 207438

Ion Ratio Lower Upper

240 100

120 8.3 6.6 10.0

236 26.2 21.4 32.2



#77

Benzidine

Concen: 2.393 ng

RT: 12.998 min Scan# 1837

Delta R.T. 0.247 min

Lab File: BF144214.D

Acq: 11 Nov 2025 20:58

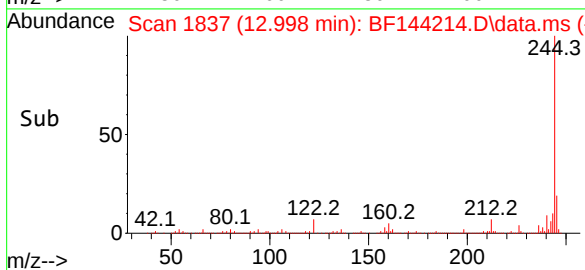
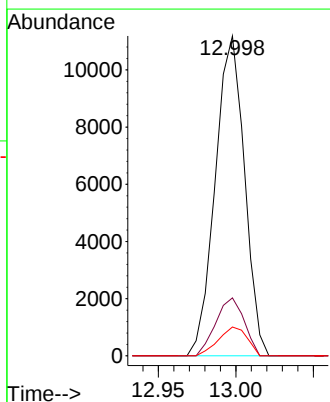
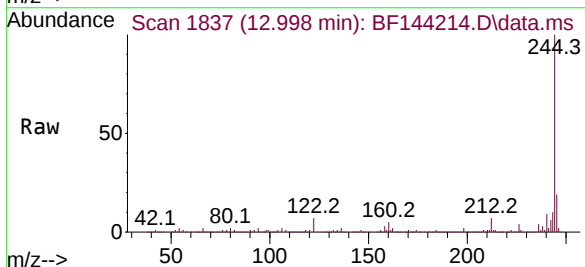
Tgt Ion:184 Resp: 14683

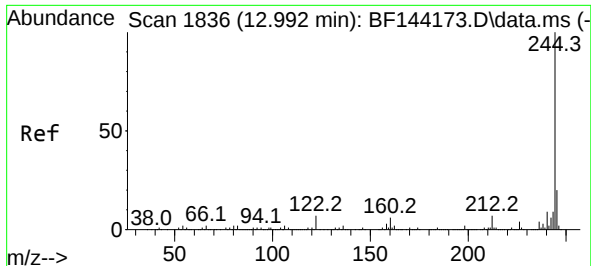
Ion Ratio Lower Upper

184 100

185 18.1 11.7 17.5#

183 9.0 8.3 12.5





#79

Terphenyl-d14

Concen: 99.313 ng

RT: 12.998 min Scan# 1837

Delta R.T. 0.006 min

Lab File: BF144214.D

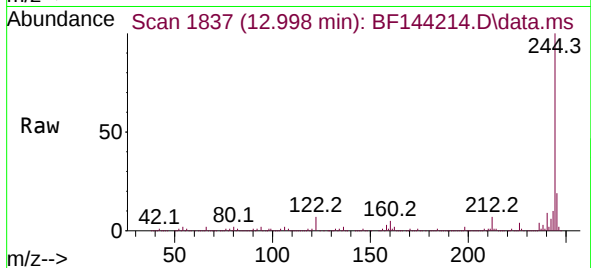
Acq: 11 Nov 2025 20:58

Instrument :

BNA_F

ClientSampleId :

LIVINGSTON-SOIL



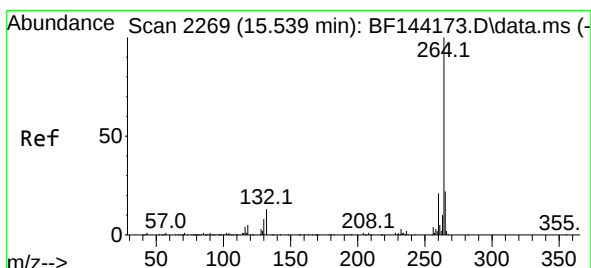
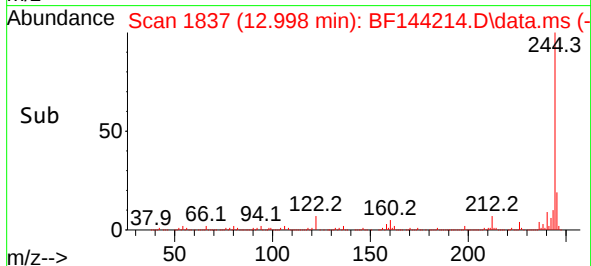
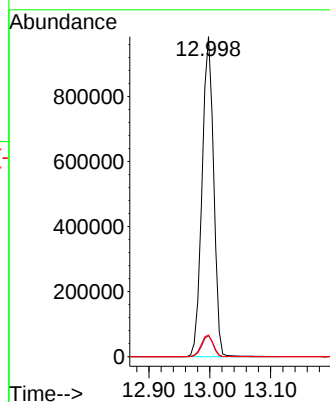
Tgt Ion:244 Resp: 1296983

Ion Ratio Lower Upper

244 100

212 6.6 5.3 7.9

122 6.7 5.6 8.4



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.539 min Scan# 2269

Delta R.T. -0.000 min

Lab File: BF144214.D

Acq: 11 Nov 2025 20:58

Tgt Ion:264 Resp: 192581

Ion Ratio Lower Upper

264 100

260 21.1 17.1 25.7

265 20.4 17.4 26.0

