

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101525\
 Data File : BF143964.D
 Acq On : 15 Oct 2025 20:52
 Operator : RC/JU
 Sample : Q3345-01
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TANK-FARM-SOIL

Quant Time: Oct 16 11:11:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF100625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 06 15:29:47 2025
 Response via : Initial Calibration

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

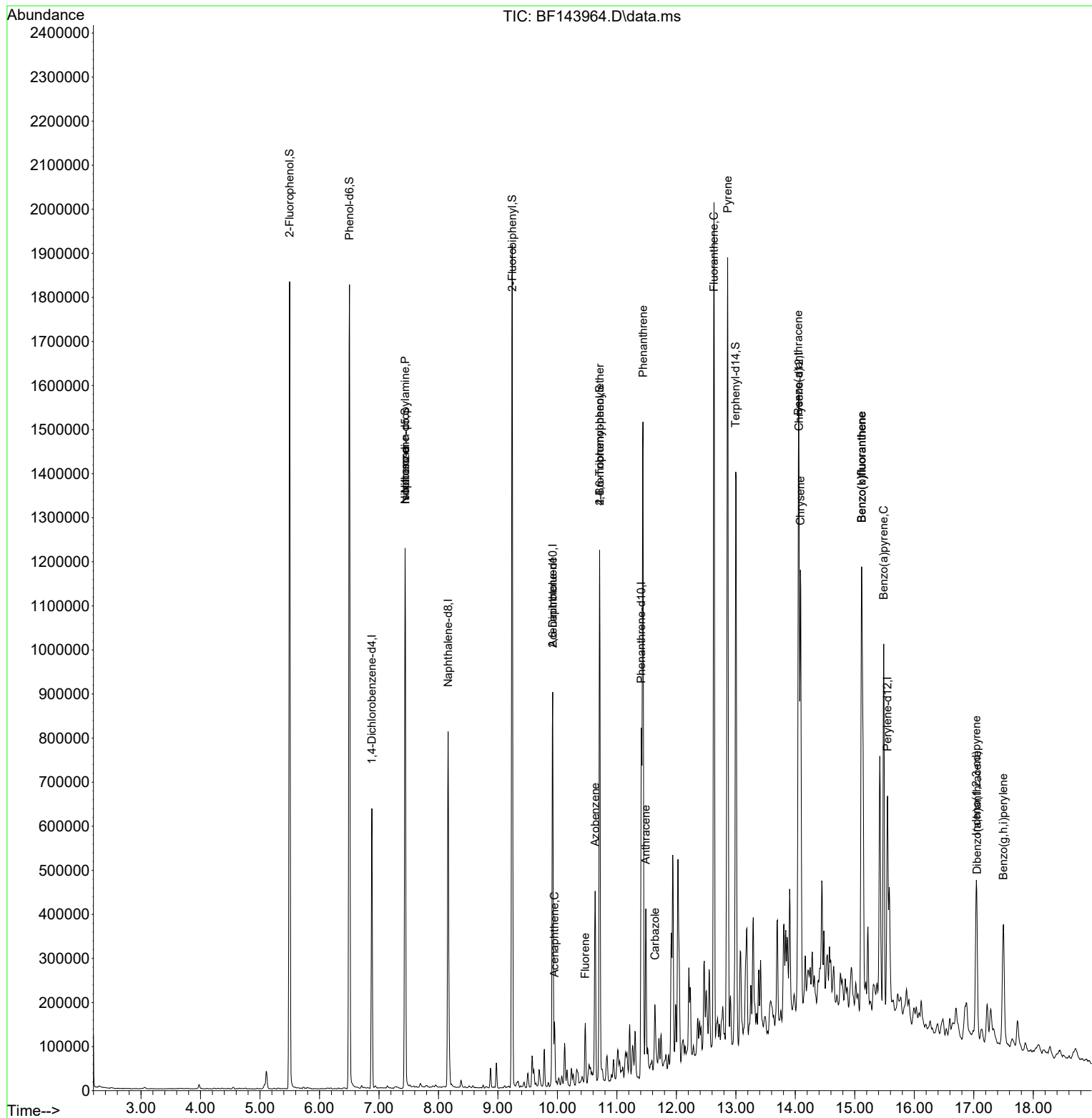
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	128491	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	502865	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	274402	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	427833	20.000	ng	0.00
76) Chrysene-d12	14.063	240	243395	20.000	ng	0.00
86) Perylene-d12	15.551	264	312832	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.499	112	702547	86.826	ng	0.00
7) Phenol-d6	6.504	99	854445	88.593	ng	-0.01
23) Nitrobenzene-d5	7.440	82	528370	63.836	ng	-0.02
42) 2,4,6-Tribromophenol	10.710	330	218397	79.908	ng	-0.01
45) 2-Fluorobiphenyl	9.239	172	907130	52.455	ng	-0.01
79) Terphenyl-d14	12.998	244	688194	48.324	ng	-0.01
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.440	70	77124	11.682	ng	# 78
25) Isophorone	7.440	82	446614	25.590	ng	# 68
51) 2,6-Dinitrotoluene	9.922	165	37092	11.479	ng	# 26
52) Acenaphthene	9.951	154	42211	3.025	ng	99
58) Fluorene	10.469	166	50282	3.383	ng	99
63) Azobenzene	10.634	77	95538	5.647	ng	# 1
67) 4-Bromophenyl-phenylether	10.710	248	12473	2.638	ng	# 1
71) Phenanthrene	11.439	178	828598	39.949	ng	99
72) Anthracene	11.486	178	211162	10.077	ng	99
73) Carbazole	11.639	167	76161	4.104	ng	99
75) Fluoranthene	12.633	202	1164388	54.349	ng	99
78) Pyrene	12.863	202	1095529	53.989	ng	98
81) Benzo(a)anthracene	14.051	228	635496	39.898	ng	97
83) Chrysene	14.086	228	565559	38.365	ng	97
87) Indeno(1,2,3-cd)pyrene	17.045	276	281057	14.662	ng	98
88) Benzo(b)fluoranthene	15.116	252	969307	53.940	ng	99
89) Benzo(k)fluoranthene	15.116	252	969307	58.294	ng	99
90) Benzo(a)pyrene	15.486	252	542803	34.836	ng	97
91) Dibenzo(a,h)anthracene	17.057	278	79579	5.162	ng	94
92) Benzo(g,h,i)perylene	17.498	276	253848	16.466	ng	97

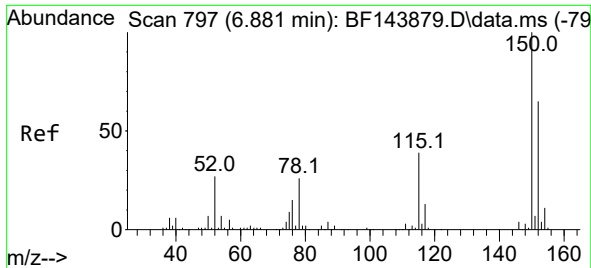
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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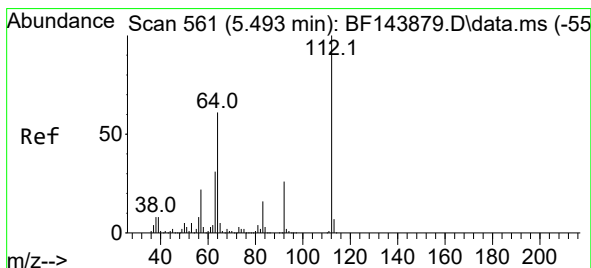
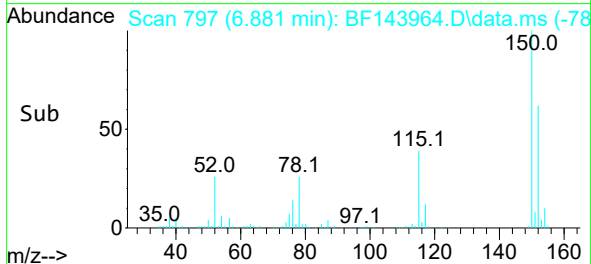
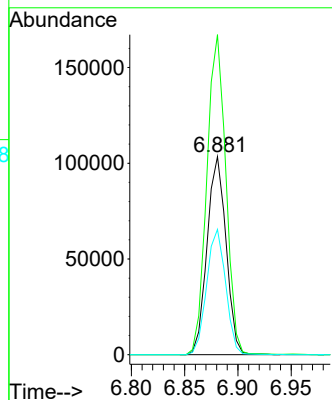
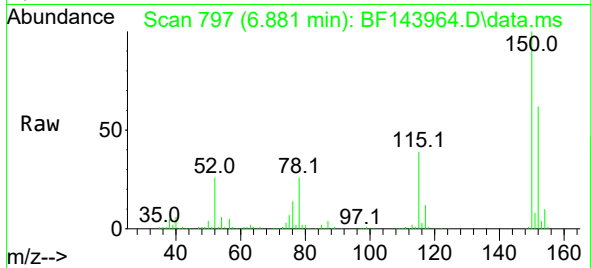




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.005 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

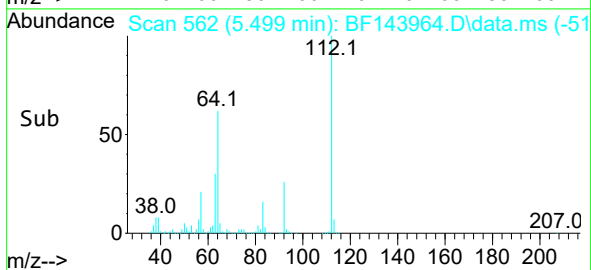
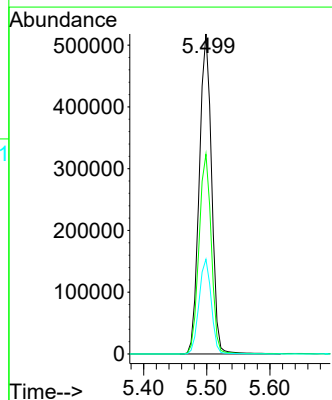
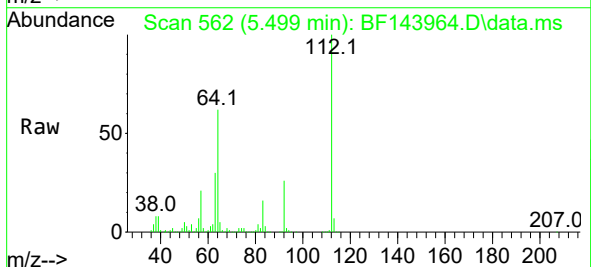
Instrument :
BNA_F
ClientSampleId :
TANK-FARM-SOIL

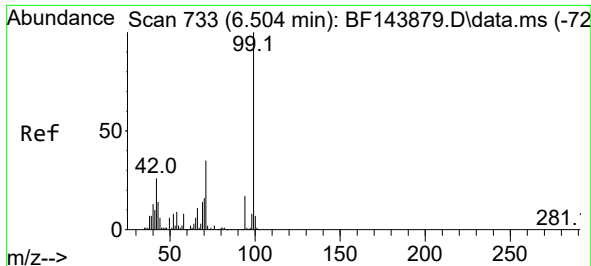
Tgt Ion:152 Resp: 128491
Ion Ratio Lower Upper
152 100
150 161.6 124.4 186.6
115 63.2 48.1 72.1



#5
2-Fluorophenol
Concen: 86.826 ng
RT: 5.499 min Scan# 562
Delta R.T. 0.000 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

Tgt Ion:112 Resp: 702547
Ion Ratio Lower Upper
112 100
64 62.4 49.1 73.7
63 29.6 24.5 36.7

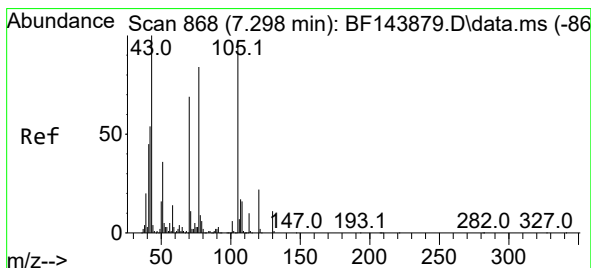
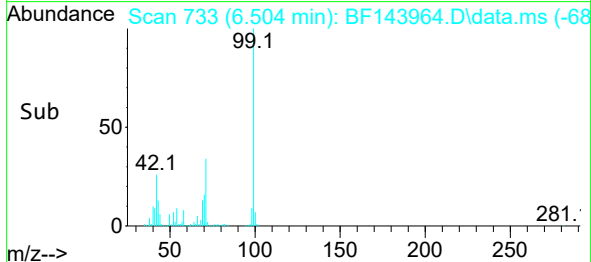
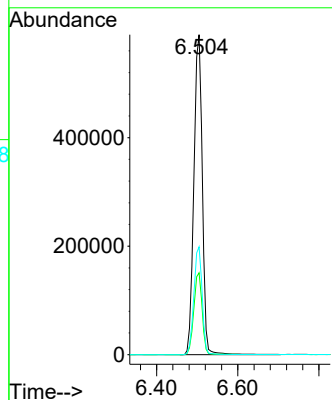
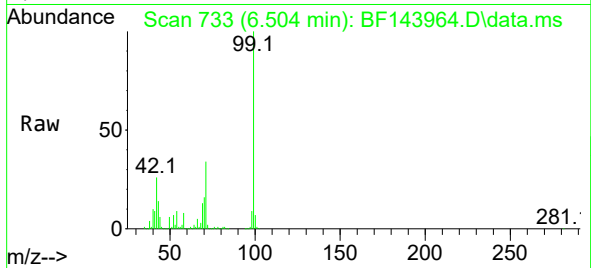




#7
Phenol-d6
Concen: 88.593 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

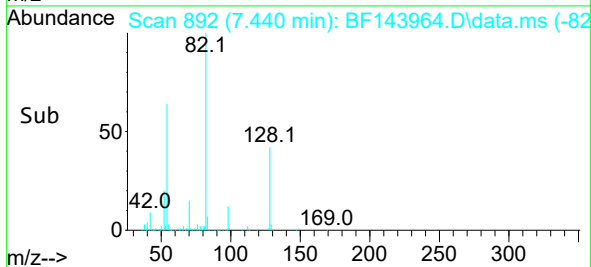
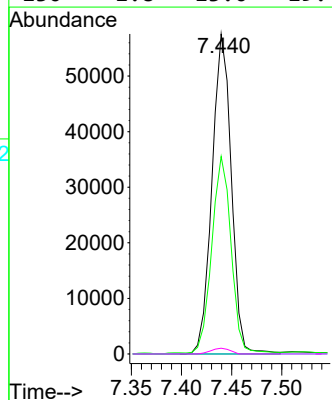
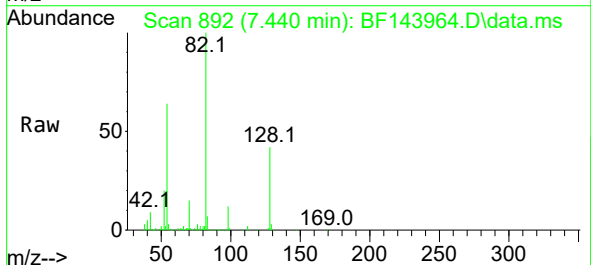
Instrument :
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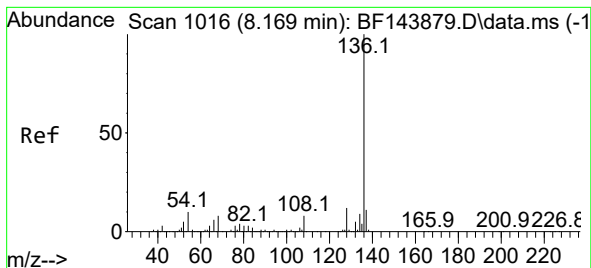
Tgt Ion: 99 Resp: 854445
Ion Ratio Lower Upper
99 100
42 25.6 21.0 31.4
71 33.7 27.8 41.8



#19
n-Nitroso-di-n-propylamine
Concen: 11.682 ng
RT: 7.440 min Scan# 892
Delta R.T. 0.124 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

Tgt Ion: 70 Resp: 77124
Ion Ratio Lower Upper
70 100
42 61.7 62.8 94.2#
101 0.0 6.7 10.1#
130 1.8 13.0 19.4#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.163 min Scan# 1016

Delta R.T. -0.006 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL

Tgt Ion:136 Resp: 502865

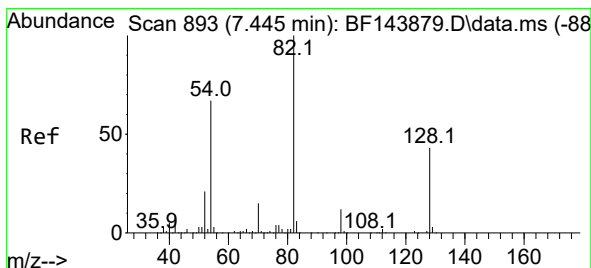
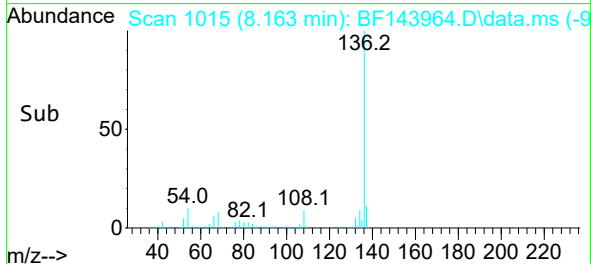
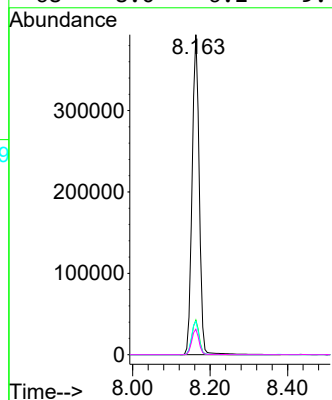
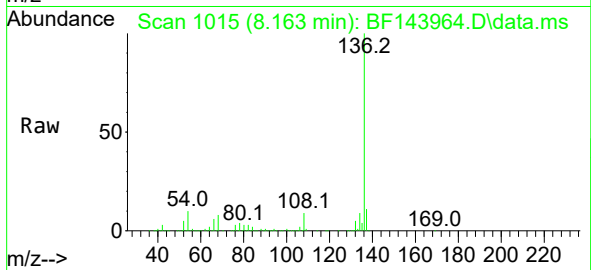
Ion Ratio Lower Upper

136 100

137 10.8 8.5 12.7

54 10.4 8.2 12.4

68 8.0 6.2 9.4



#23

Nitrobenzene-d5

Concen: 63.836 ng

RT: 7.440 min Scan# 892

Delta R.T. -0.017 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

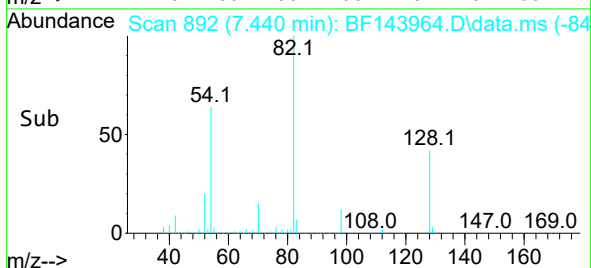
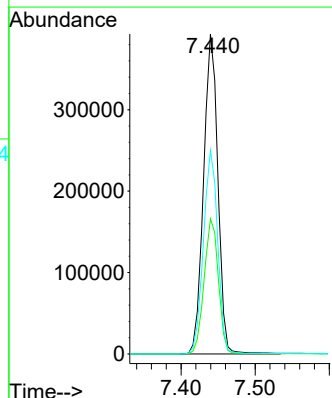
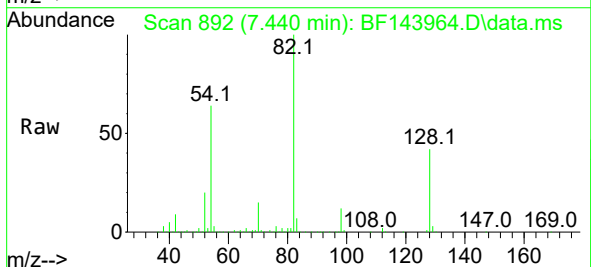
Tgt Ion: 82 Resp: 528370

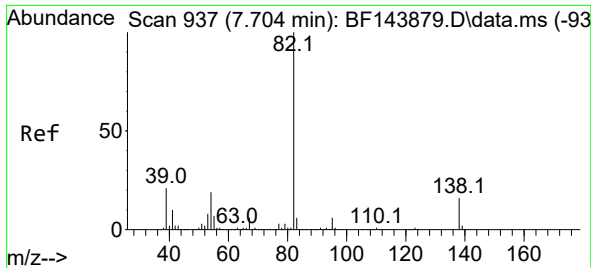
Ion Ratio Lower Upper

82 100

128 42.2 34.0 51.0

54 63.7 53.2 79.8

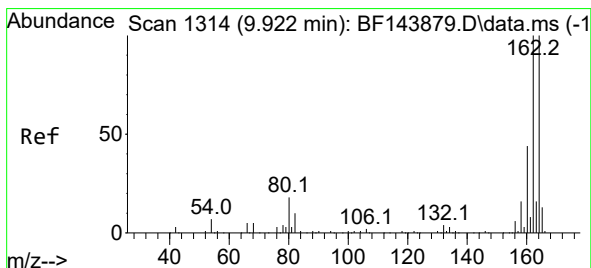
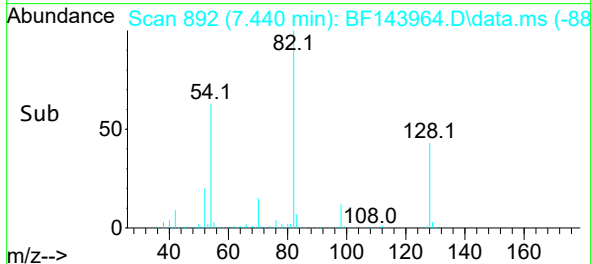
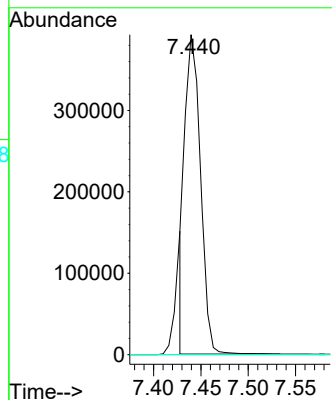
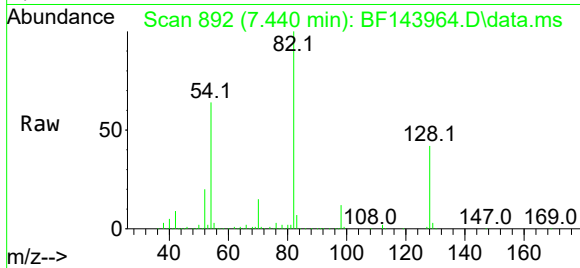




#25
Isophorone
Concen: 25.590 ng
RT: 7.440 min Scan# 892
Delta R.T. -0.282 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

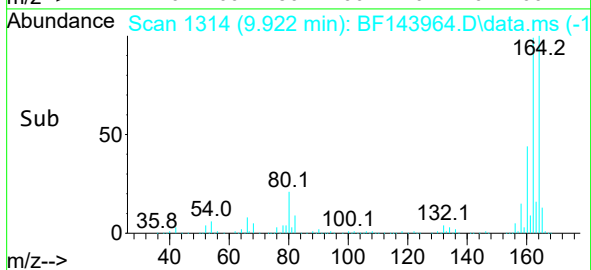
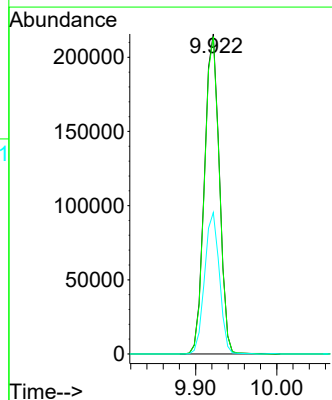
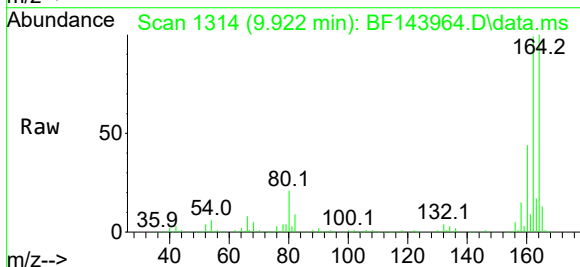
Instrument :
BNA_F
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TANK-FARM-SOIL

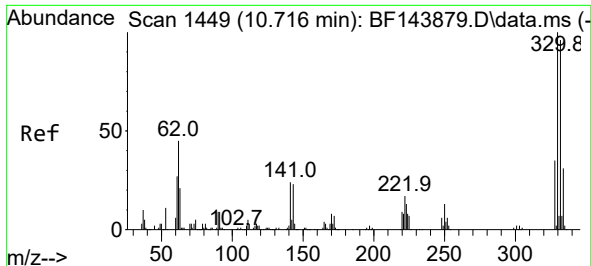
Tgt Ion: 82 Resp: 446614
Ion Ratio Lower Upper
82 100
95 0.0 5.1 7.7#
138 0.0 12.9 19.3#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.005 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

Tgt Ion:164 Resp: 274402
Ion Ratio Lower Upper
164 100
162 99.1 80.2 120.2
160 44.2 35.4 53.0

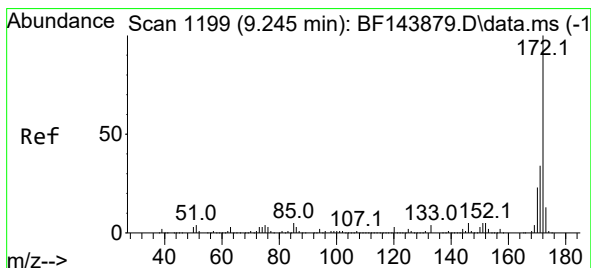
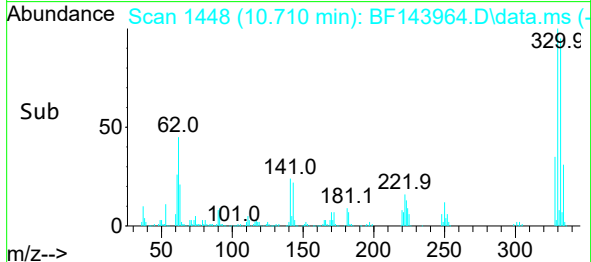
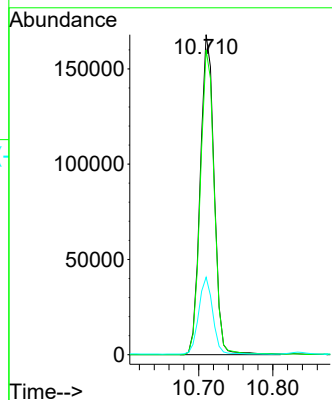
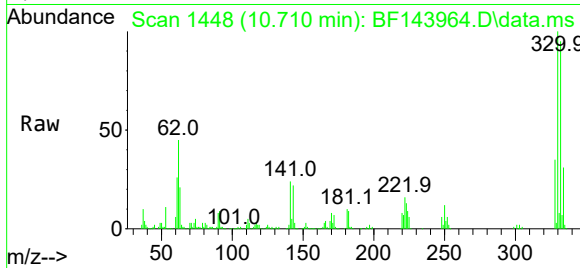




#42
2,4,6-Tribromophenol
Concen: 79.908 ng
RT: 10.710 min Scan# 1449
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

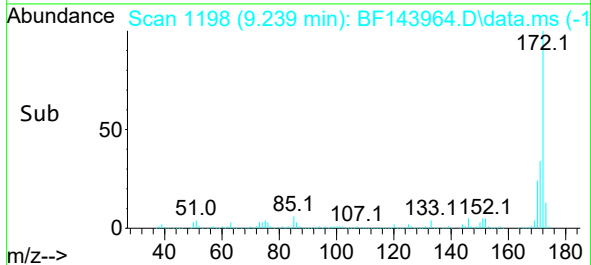
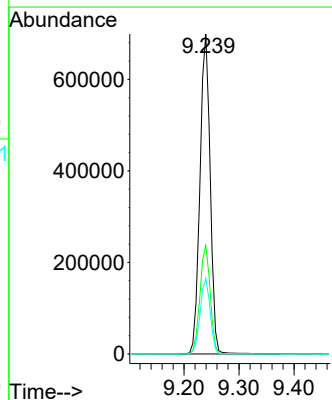
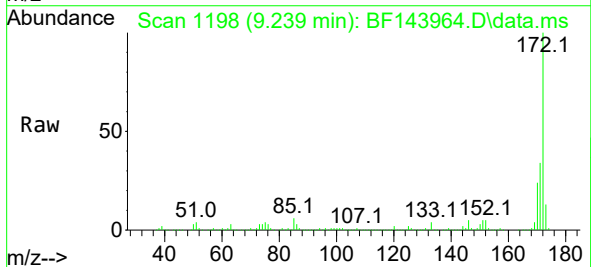
Instrument :
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ClientSampleId :
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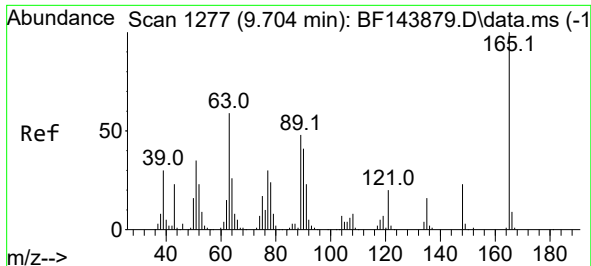
Tgt Ion: 330 Resp: 218397
Ion Ratio Lower Upper
330 100
332 95.5 76.9 115.3
141 24.2 20.2 30.4



#45
2-Fluorobiphenyl
Concen: 52.455 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

Tgt Ion: 172 Resp: 907130
Ion Ratio Lower Upper
172 100
171 33.9 27.4 41.0
170 23.5 18.6 28.0

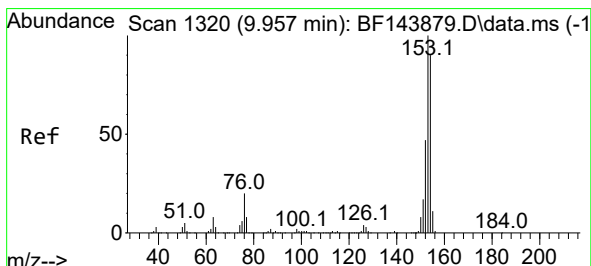
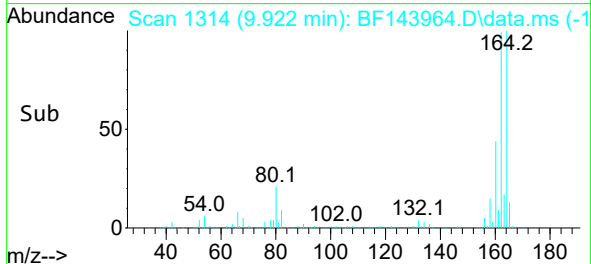
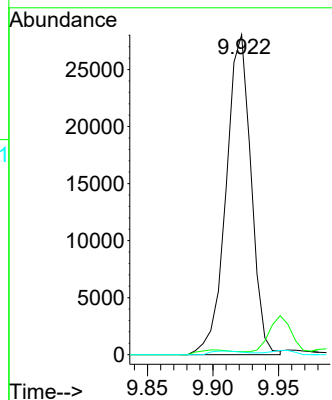
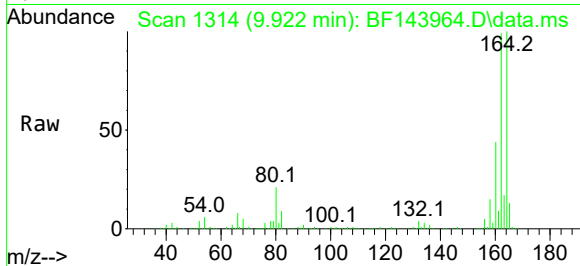




#51
2,6-Dinitrotoluene
Concen: 11.479 ng
RT: 9.922 min Scan# 11
Delta R.T. 0.206 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

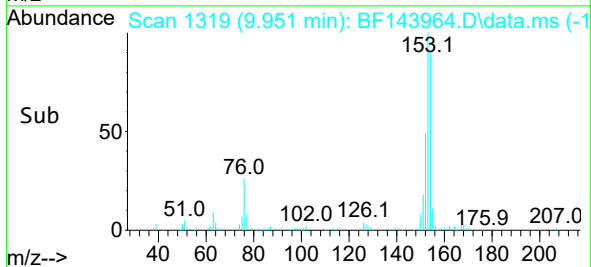
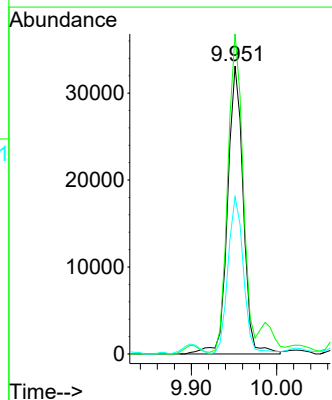
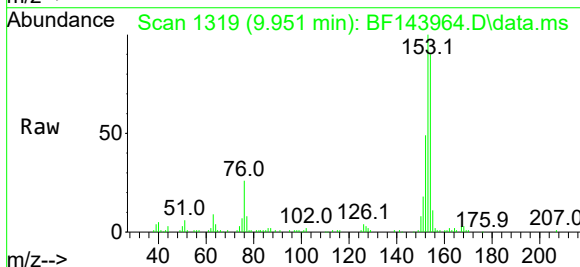
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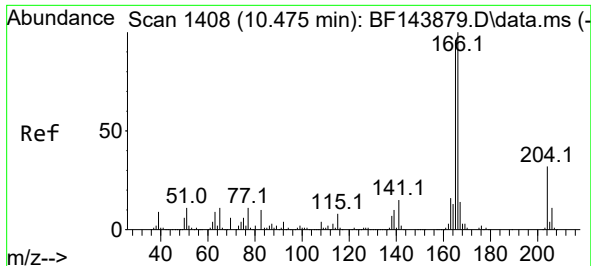
Tgt Ion:165 Resp: 37092
Ion Ratio Lower Upper
165 100
63 0.9 47.3 70.9#
89 0.8 38.2 57.4#



#52
Acenaphthene
Concen: 3.025 ng
RT: 9.951 min Scan# 1319
Delta R.T. -0.012 min
Lab File: BF143964.D
Acq: 15 Oct 2025 20:52

Tgt Ion:154 Resp: 42211
Ion Ratio Lower Upper
154 100
153 111.2 89.3 133.9
152 54.6 42.2 63.2

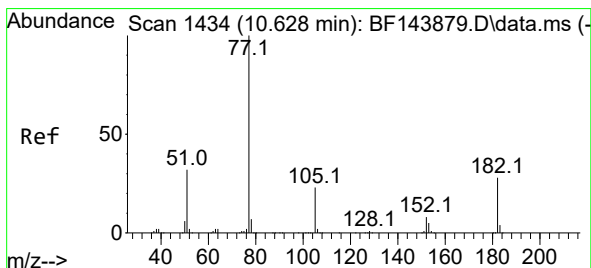
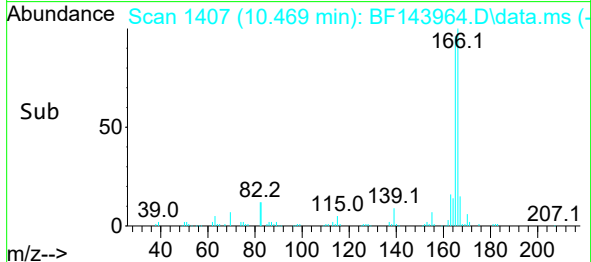
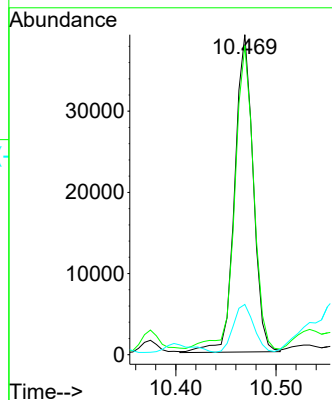
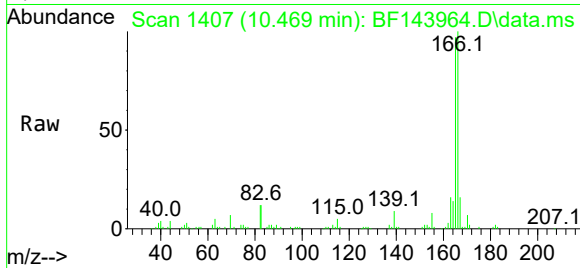




#58
 Fluorene
 Concen: 3.383 ng
 RT: 10.469 min Scan# 1407
 Delta R.T. -0.012 min
 Lab File: BF143964.D
 Acq: 15 Oct 2025 20:52

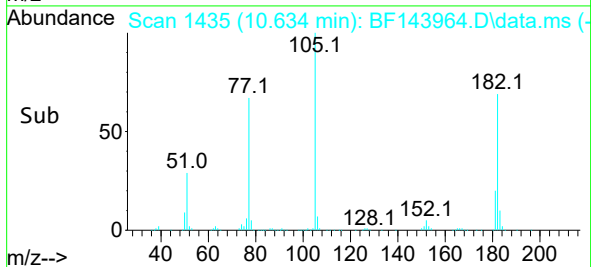
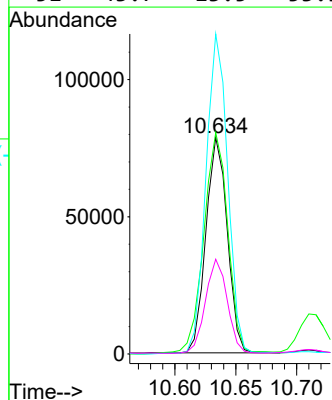
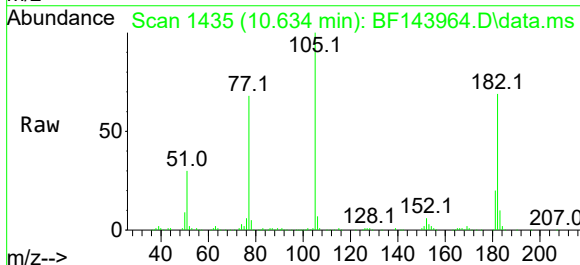
Instrument :
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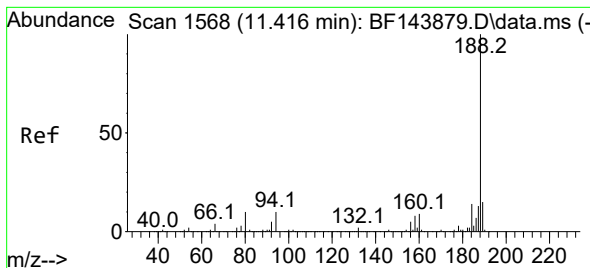
Tgt Ion:166 Resp: 50282
 Ion Ratio Lower Upper
 166 100
 165 96.6 77.0 115.6
 167 15.7 11.1 16.7



#63
 Azobenzene
 Concen: 5.647 ng
 RT: 10.634 min Scan# 1435
 Delta R.T. 0.000 min
 Lab File: BF143964.D
 Acq: 15 Oct 2025 20:52

Tgt Ion: 77 Resp: 95538
 Ion Ratio Lower Upper
 77 100
 182 102.3 7.3 47.3#
 105 147.8 3.0 43.0#
 51 43.7 13.5 53.5





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL

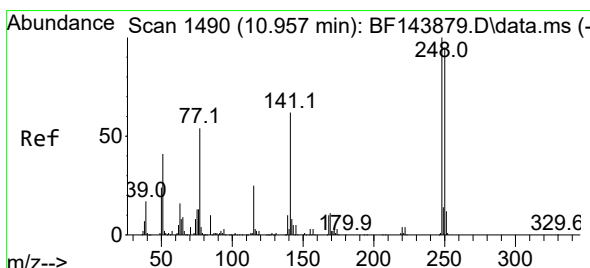
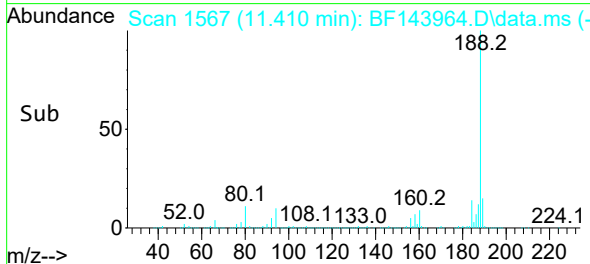
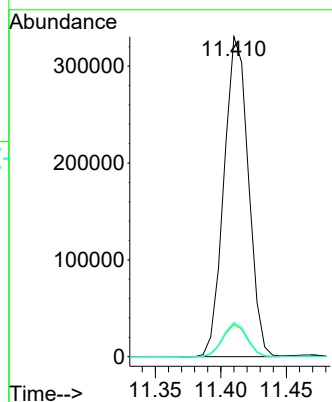
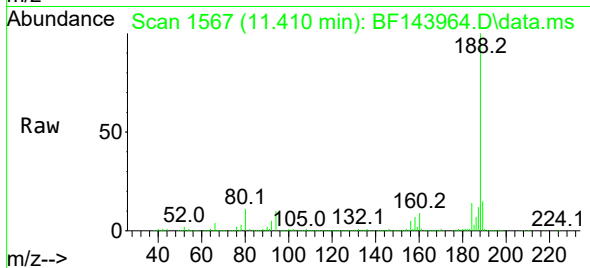
Tgt Ion:188 Resp: 427833

Ion Ratio Lower Upper

188 100

94 10.1 7.8 11.6

80 10.7 7.9 11.9



#67

4-Bromophenyl-phenylether

Concen: 2.638 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.253 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

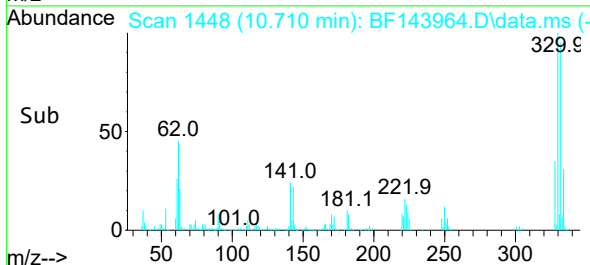
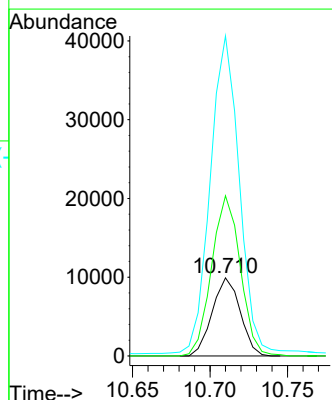
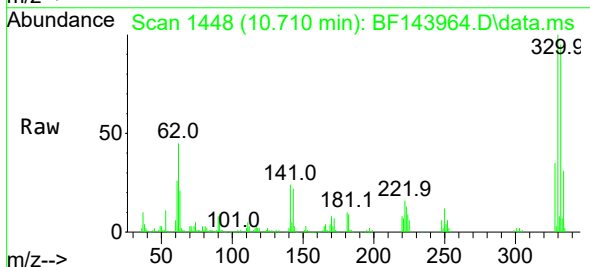
Tgt Ion:248 Resp: 12473

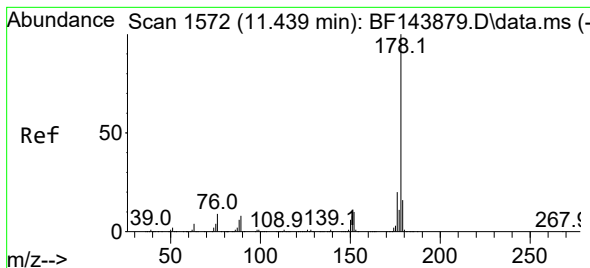
Ion Ratio Lower Upper

248 100

250 205.1 76.3 114.5#

141 410.0 49.7 74.5#





#71

Phenanthrene

Concen: 39.949 ng

RT: 11.439 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL

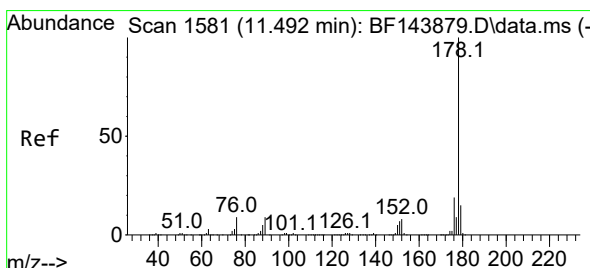
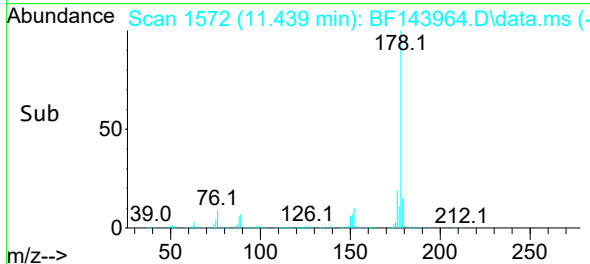
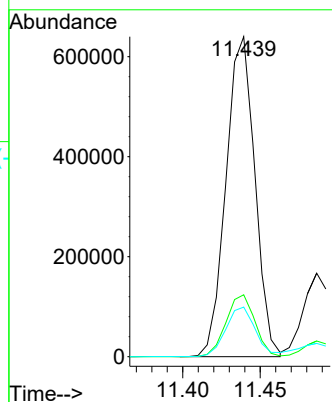
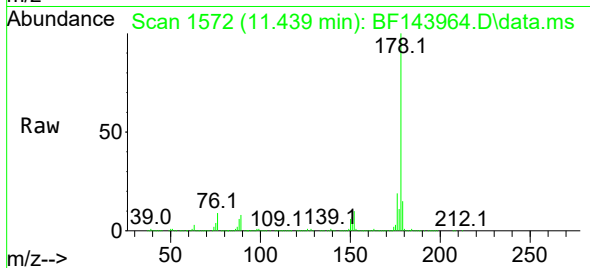
Tgt Ion:178 Resp: 828598

Ion Ratio Lower Upper

178 100

176 19.4 15.9 23.9

179 15.5 12.4 18.6



#72

Anthracene

Concen: 10.077 ng

RT: 11.486 min Scan# 1580

Delta R.T. -0.012 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

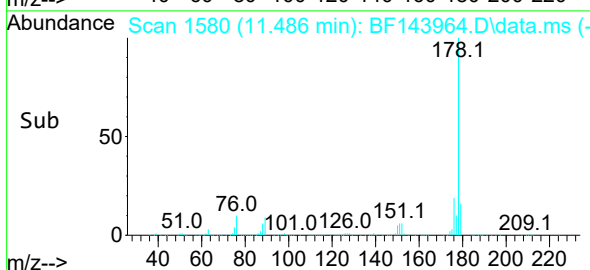
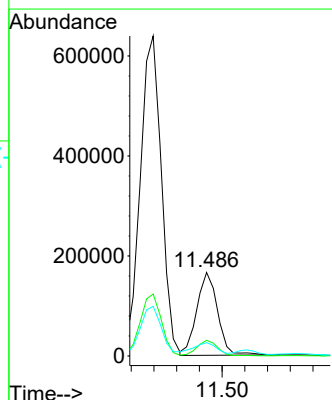
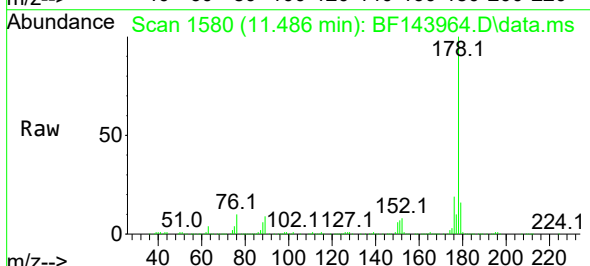
Tgt Ion:178 Resp: 211162

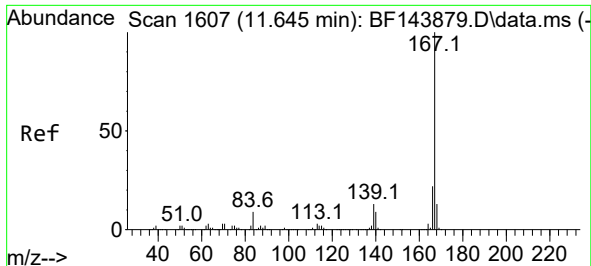
Ion Ratio Lower Upper

178 100

176 18.8 14.9 22.3

179 15.9 12.2 18.2

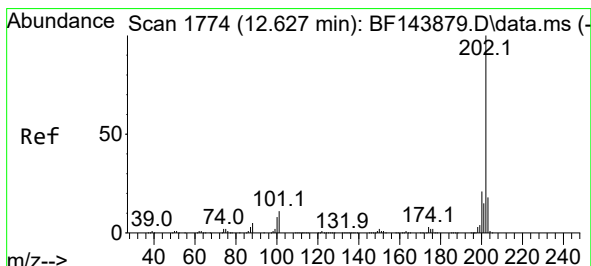
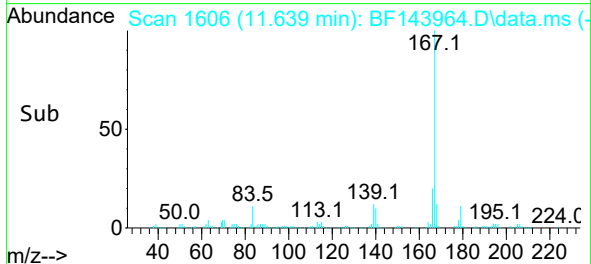
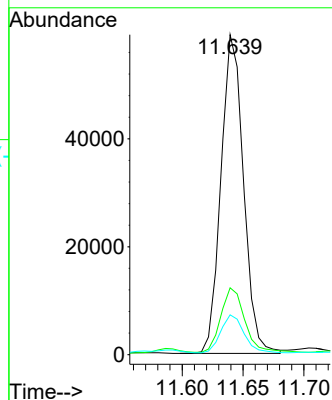
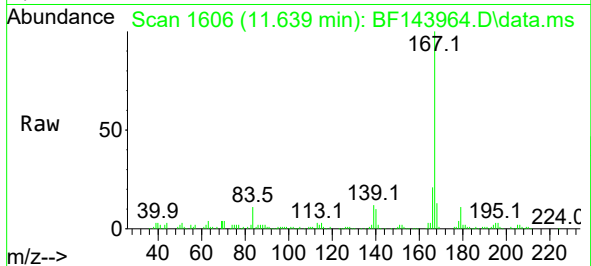




#73
 Carbazole
 Concen: 4.104 ng
 RT: 11.639 min Scan# 1
 Delta R.T. -0.012 min
 Lab File: BF143964.D
 Acq: 15 Oct 2025 20:52

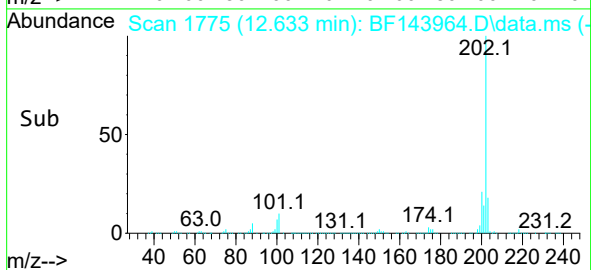
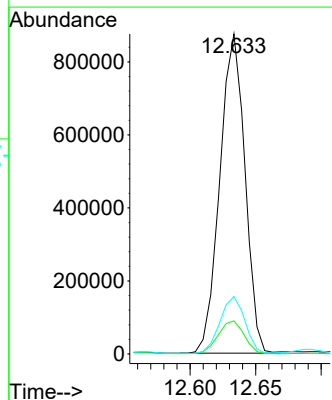
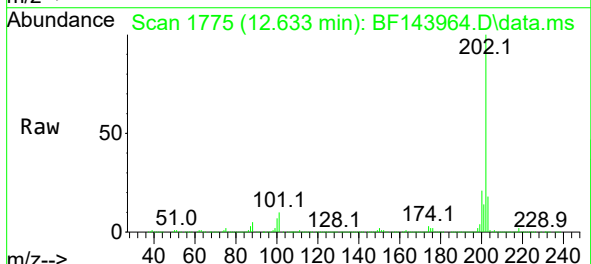
Instrument :
 BNA_F
 ClientSampleId :
 TANK-FARM-SOIL

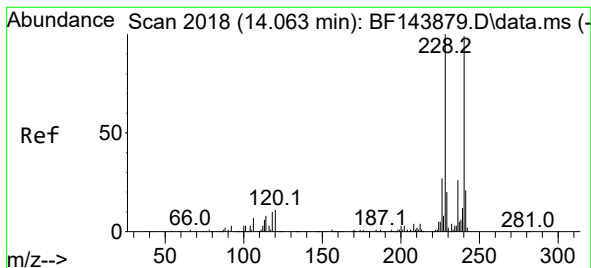
Tgt Ion:167 Resp: 76161
 Ion Ratio Lower Upper
 167 100
 166 20.9 17.2 25.8
 139 12.5 10.1 15.1



#75
 Fluoranthene
 Concen: 54.349 ng
 RT: 12.633 min Scan# 1775
 Delta R.T. 0.000 min
 Lab File: BF143964.D
 Acq: 15 Oct 2025 20:52

Tgt Ion:202 Resp: 1164388
 Ion Ratio Lower Upper
 202 100
 101 10.3 0.0 30.7
 203 18.0 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.063 min Scan# 20

Delta R.T. -0.005 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL

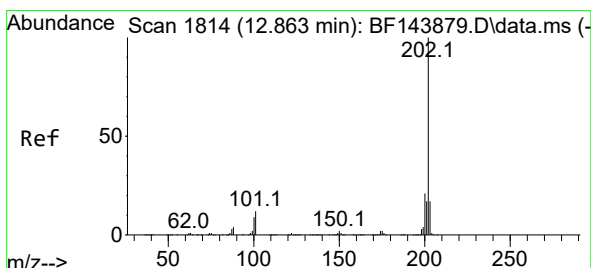
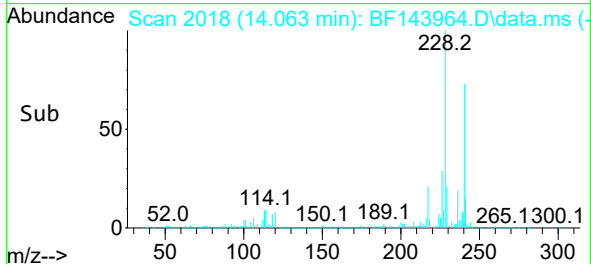
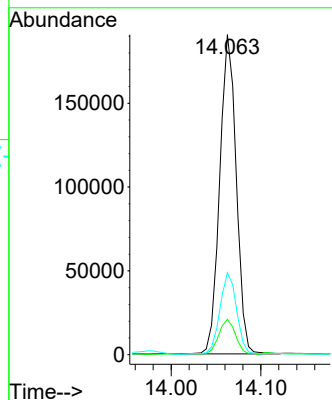
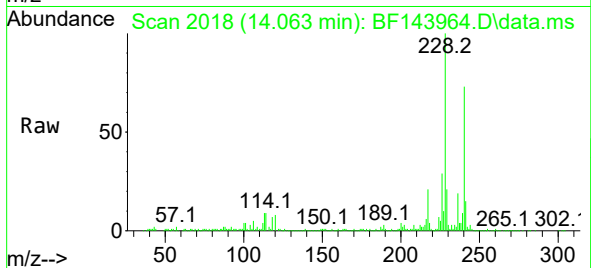
Tgt Ion:240 Resp: 243395

Ion Ratio Lower Upper

240 100

120 11.1 8.6 13.0

236 25.6 21.1 31.7



#78

Pyrene

Concen: 53.989 ng

RT: 12.863 min Scan# 1814

Delta R.T. 0.000 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

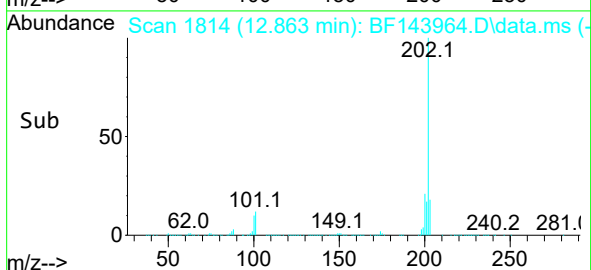
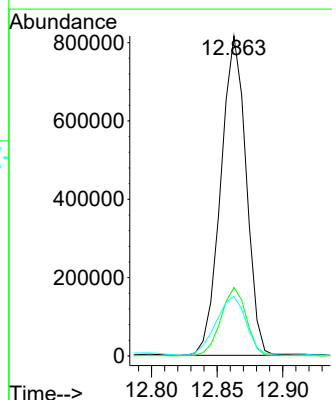
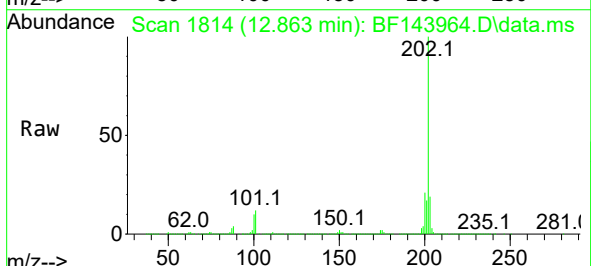
Tgt Ion:202 Resp: 1095529

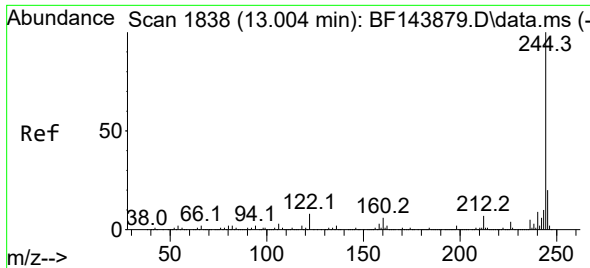
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 18.6 13.8 20.6

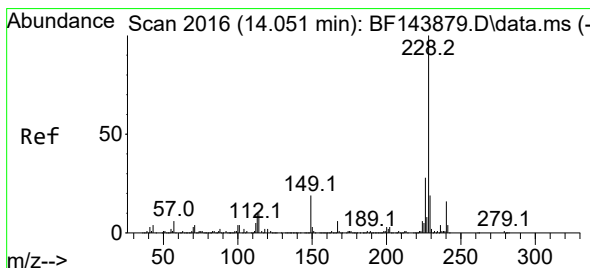
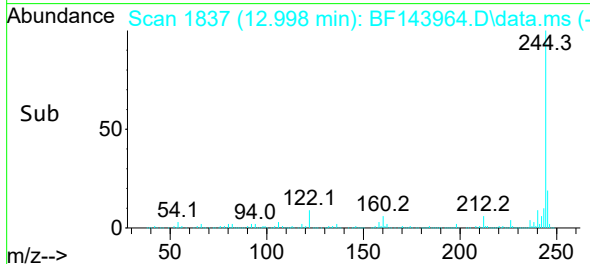
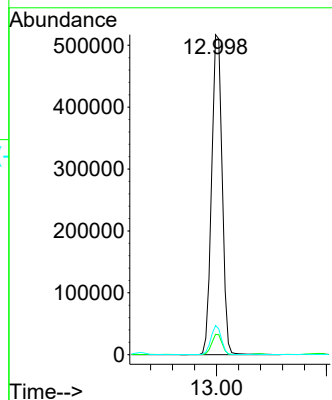
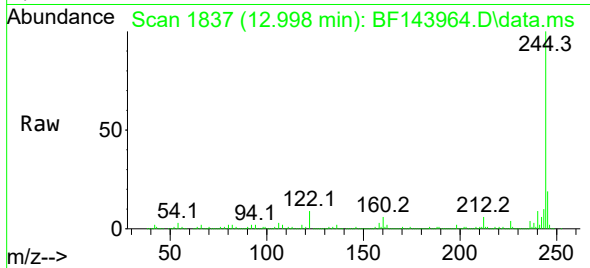




#79
 Terphenyl-d14
 Concen: 48.324 ng
 RT: 12.998 min Scan# 1837
 Delta R.T. -0.012 min
 Lab File: BF143964.D
 Acq: 15 Oct 2025 20:52

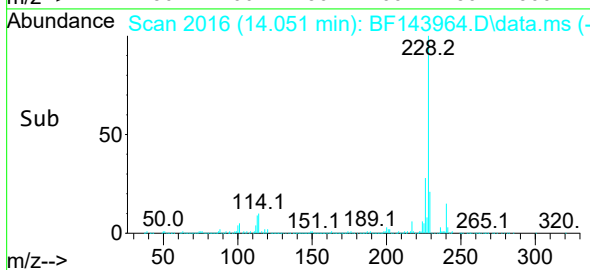
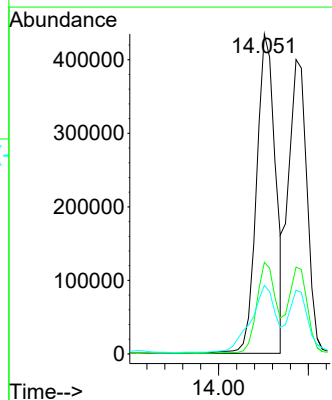
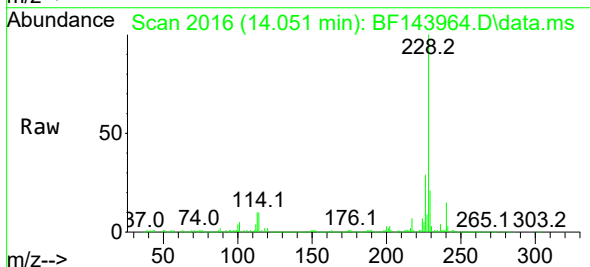
Instrument :
 BNA_F
 ClientSampleId :
 TANK-FARM-SOIL

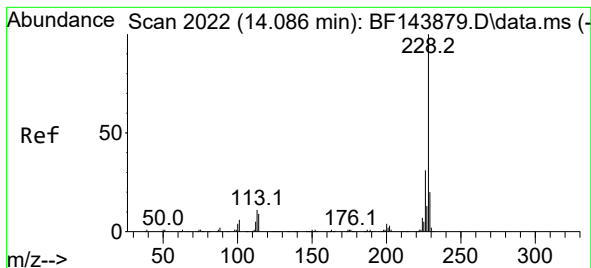
Tgt Ion:244 Resp: 688194
 Ion Ratio Lower Upper
 244 100
 212 6.4 5.4 8.0
 122 9.1 6.4 9.6



#81
 Benzo(a)anthracene
 Concen: 39.898 ng
 RT: 14.051 min Scan# 2016
 Delta R.T. -0.006 min
 Lab File: BF143964.D
 Acq: 15 Oct 2025 20:52

Tgt Ion:228 Resp: 635496
 Ion Ratio Lower Upper
 228 100
 226 28.6 22.2 33.2
 229 21.4 15.6 23.4





#83

Chrysene

Concen: 38.365 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL

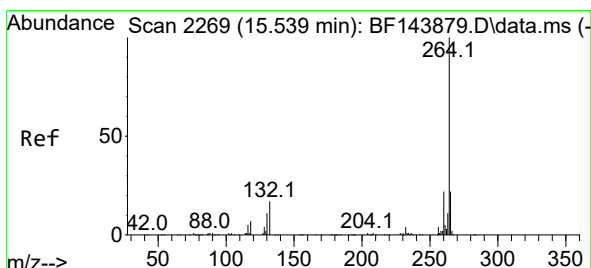
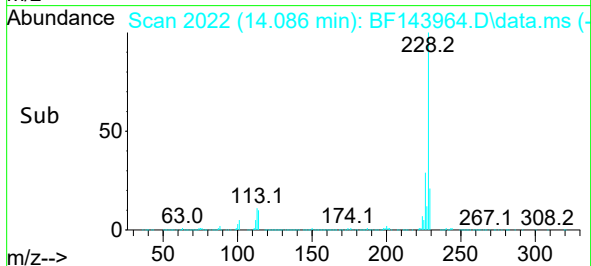
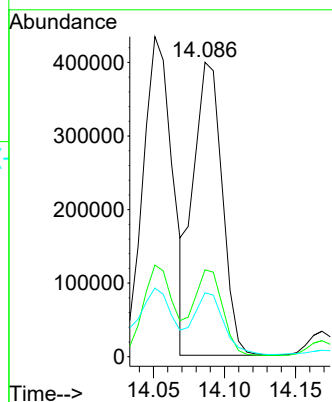
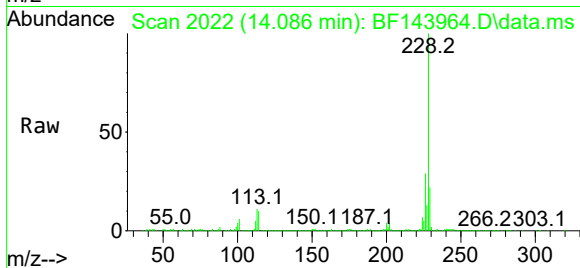
Tgt Ion:228 Resp: 565559

Ion Ratio Lower Upper

228 100

226 29.5 24.4 36.6

229 21.7 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. 0.006 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

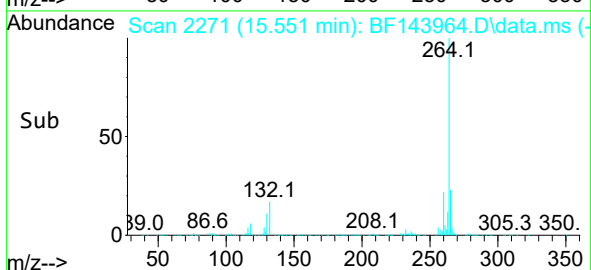
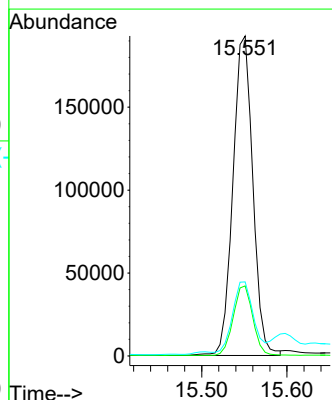
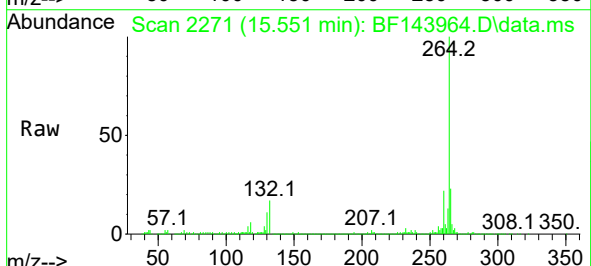
Tgt Ion:264 Resp: 312832

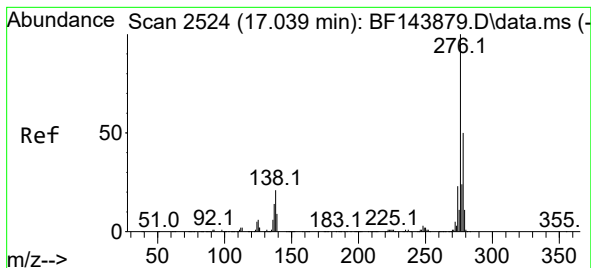
Ion Ratio Lower Upper

264 100

260 21.9 17.8 26.8

265 23.2 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 14.662 ng

RT: 17.045 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL

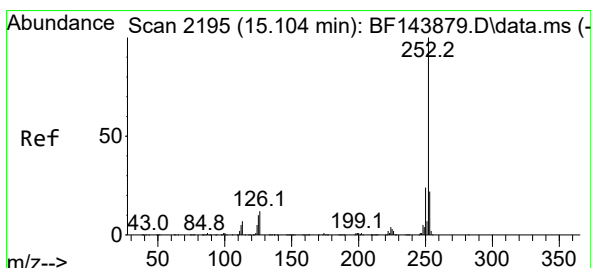
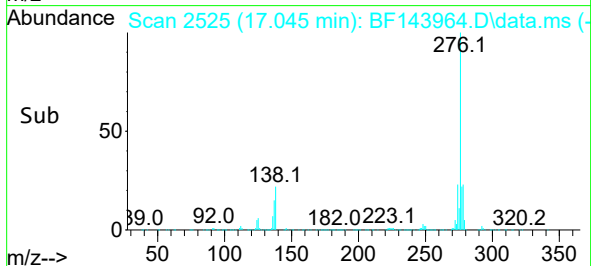
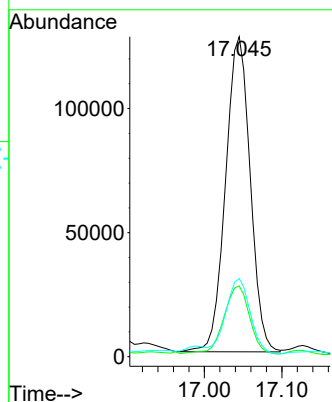
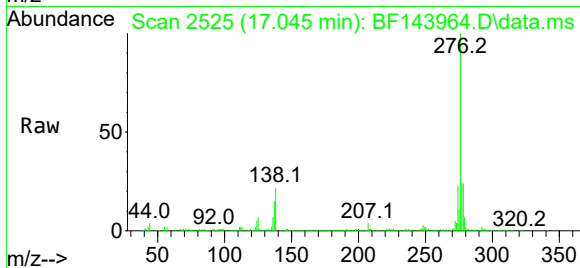
Tgt Ion:276 Resp: 281057

Ion Ratio Lower Upper

276 100

138 23.6 18.2 27.2

277 23.6 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 53.940 ng

RT: 15.116 min Scan# 2197

Delta R.T. 0.000 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

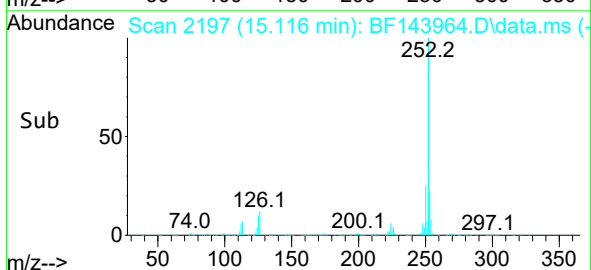
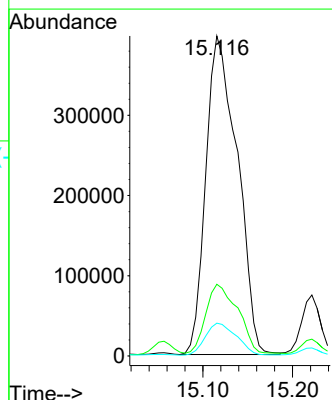
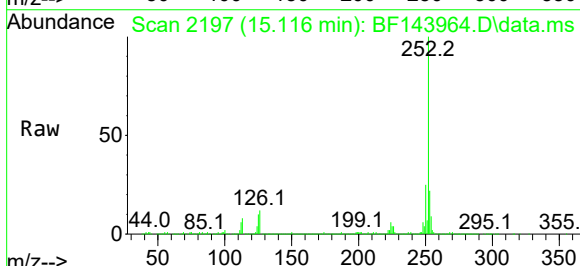
Tgt Ion:252 Resp: 969307

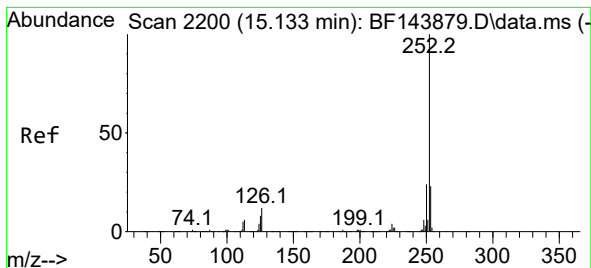
Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.2

125 10.2 7.8 11.6





#89

Benzo(k)fluoranthene

Concen: 58.294 ng

RT: 15.116 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL

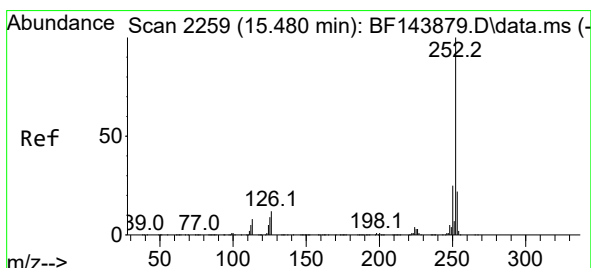
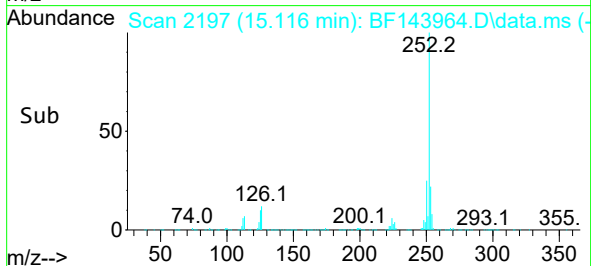
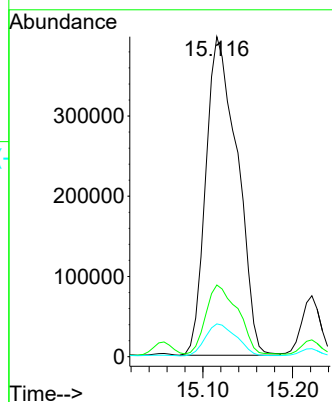
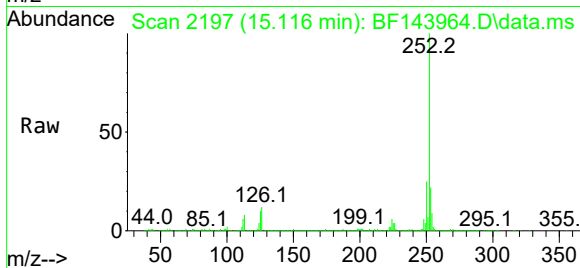
Tgt Ion:252 Resp: 969307

Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 10.2 7.4 11.2



#90

Benzo(a)pyrene

Concen: 34.836 ng

RT: 15.486 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

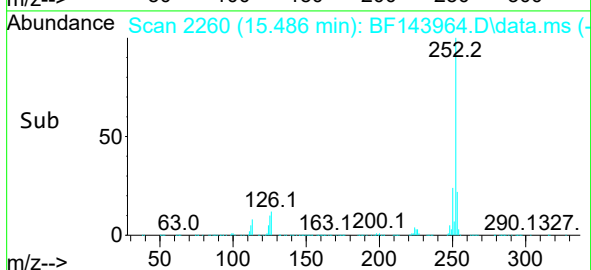
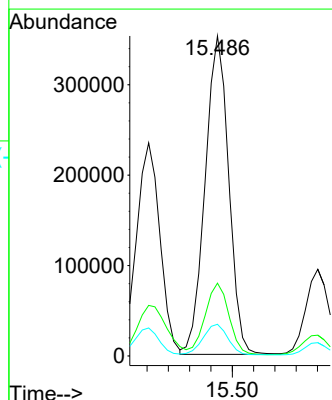
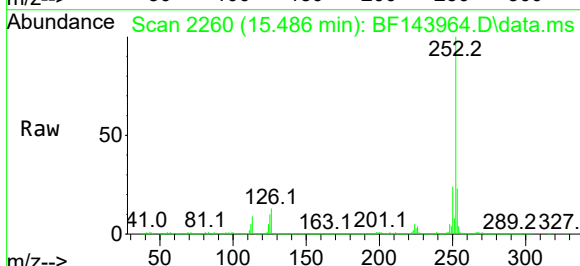
Tgt Ion:252 Resp: 542803

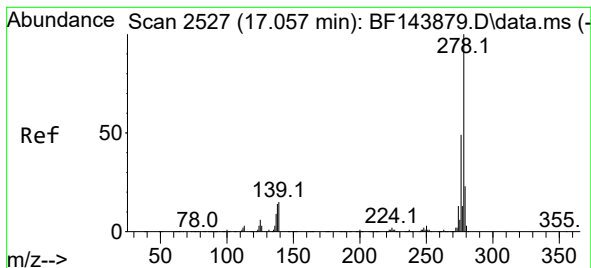
Ion Ratio Lower Upper

252 100

253 22.8 17.3 25.9

125 9.9 7.0 10.4





#91

Dibenzo(a,h)anthracene

Concen: 5.162 ng

RT: 17.057 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Instrument :

BNA_F

ClientSampleId :

TANK-FARM-SOIL

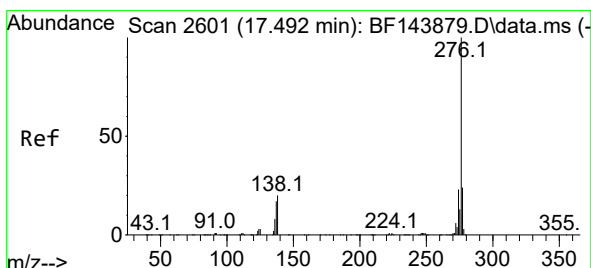
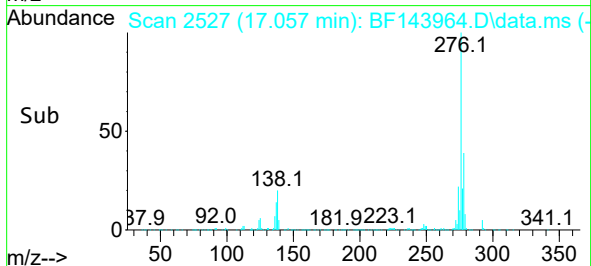
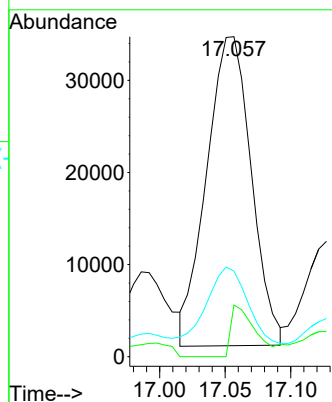
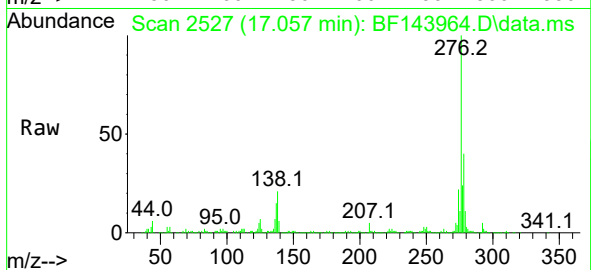
Tgt Ion:278 Resp: 79579

Ion Ratio Lower Upper

278 100

139 16.1 11.7 17.5

279 26.7 18.4 27.6



#92

Benzo(g,h,i)perylene

Concen: 16.466 ng

RT: 17.498 min Scan# 2602

Delta R.T. -0.017 min

Lab File: BF143964.D

Acq: 15 Oct 2025 20:52

Tgt Ion:276 Resp: 253848

Ion Ratio Lower Upper

276 100

277 23.9 19.0 28.6

138 23.2 16.1 24.1

