

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112425\
 Data File : BF144342.D
 Acq On : 25 Nov 2025 00:12
 Operator : RC/JU
 Sample : Q3710-05 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 WELD-SHOP-EXCAVATION

Quant Time: Nov 25 01:33:48 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)

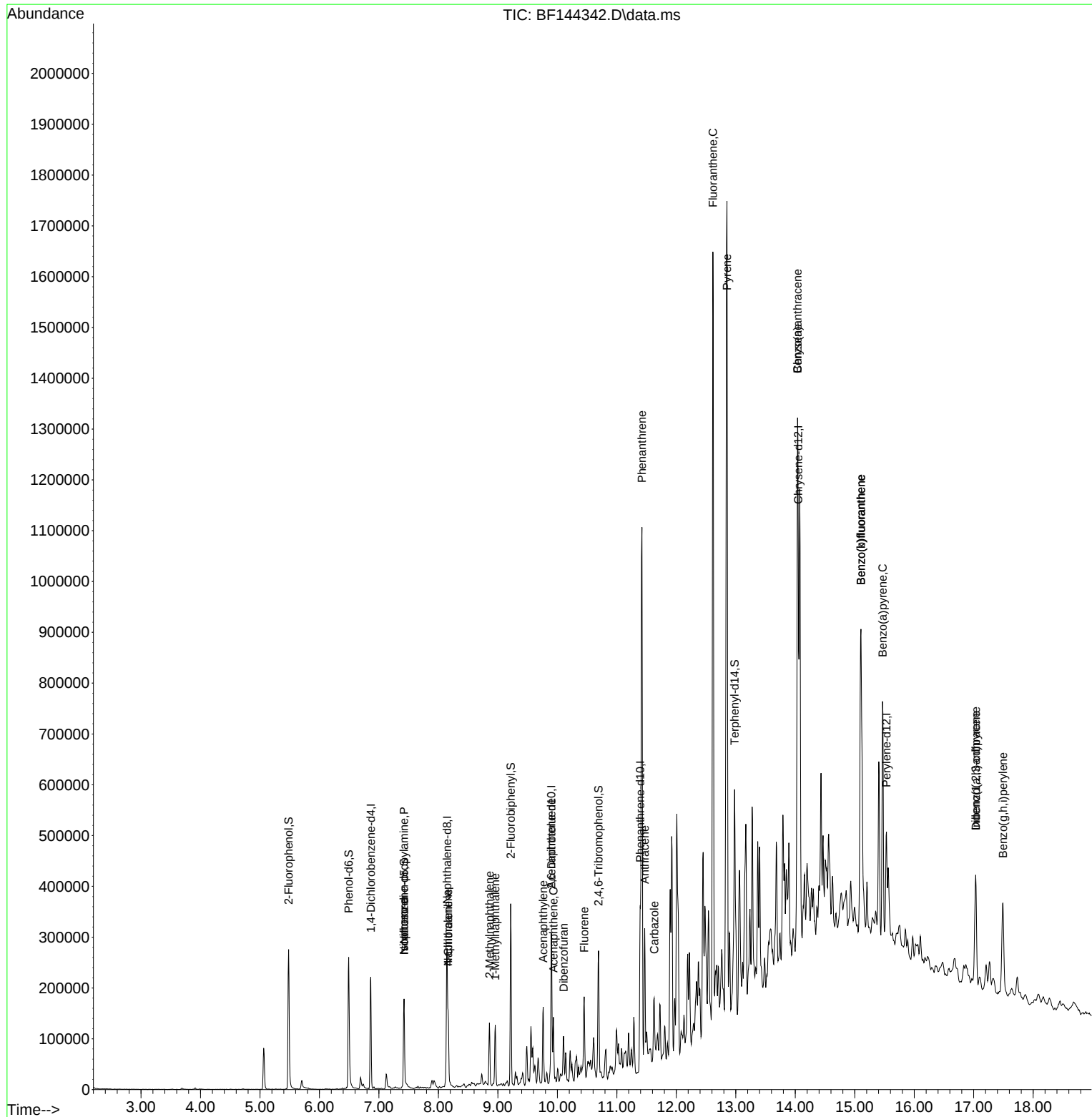
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	49093	20.000	ng	-0.01
21) Naphthalene-d8	8.145	136	174927	20.000	ng	-0.01
39) Acenaphthene-d10	9.898	164	90247	20.000	ng	-0.02
64) Phenanthrene-d10	11.392	188	179350	20.000	ng	-0.01
76) Chrysene-d12	14.051	240	143104	20.000	ng	0.00
86) Perylene-d12	15.533	264	119117	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.481	112	124752	39.766	ng	-0.01
7) Phenol-d6	6.492	99	137033	38.550	ng	0.00
23) Nitrobenzene-d5	7.422	82	76727	25.333	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	41838	36.943	ng	-0.01
45) 2-Fluorobiphenyl	9.216	172	163311	26.727	ng	-0.01
79) Terphenyl-d14	12.980	244	214068	23.761	ng	-0.01
Target Compounds						
						Qvalue
19) n-Nitroso-di-n-propyla...	7.422	70	11514	4.920	ng	# 80
25) Isophorone	7.422	82	76726	13.393	ng	# 66
31) Naphthalene	8.163	128	82202	9.879	ng	99
33) 4-Chloroaniline	8.163	127	9877	3.255	ng	# 30
37) 2-Methylnaphthalene	8.857	142	48289	8.680	ng	98
38) 1-Methylnaphthalene	8.957	142	45467	8.470	ng	99
49) Acenaphthylene	9.763	152	80240	10.958	ng	98
51) 2,6-Dinitrotoluene	9.898	165	13789	11.393	ng	# 28
52) Acenaphthene	9.933	154	37911	7.742	ng	94
55) Dibenzofuran	10.104	168	27366	3.990	ng	# 91
58) Fluorene	10.451	166	68883	13.210	ng	97
71) Phenanthrene	11.422	178	620849	69.527	ng	99
72) Anthracene	11.469	178	162141	17.857	ng	99
73) Carbazole	11.627	167	65629	8.500	ng	99
75) Fluoranthene	12.616	202	971079	105.274	ng	98
78) Pyrene	12.851	202	1056071	91.527	ng	98
81) Benzo(a)anthracene	14.039	228	594076	59.898	ng	94
83) Chrysene	14.039	228	594076	64.885	ng	95
87) Indeno(1,2,3-cd)pyrene	17.033	276	176785	20.675	ng	99
88) Benzo(b)fluoranthene	15.104	252	599012	88.454	ng	# 97
89) Benzo(k)fluoranthene	15.104	252	599012	94.502	ng	# 98
90) Benzo(a)pyrene	15.468	252	314215	50.295	ng	# 94
91) Dibenzo(a,h)anthracene	17.033	278	46683	6.798	ng	# 87
92) Benzo(g,h,i)perylene	17.492	276	181015	26.693	ng	97

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

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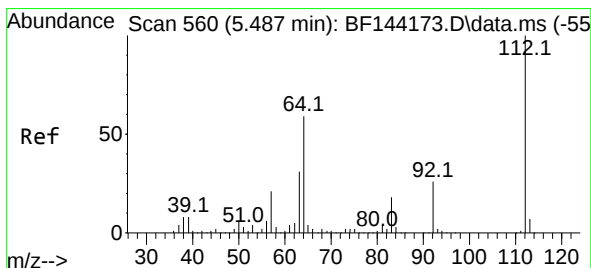
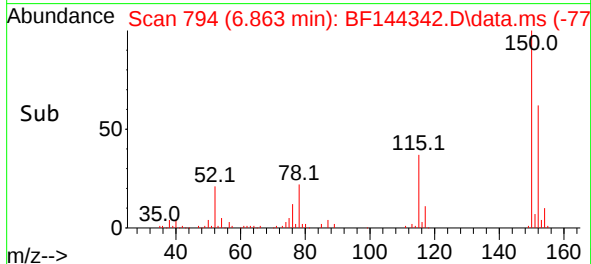
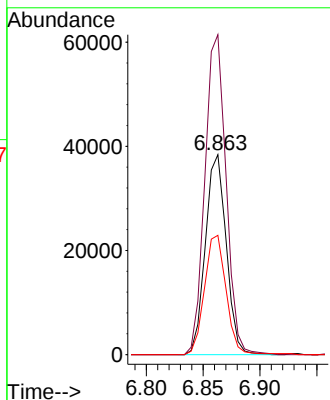
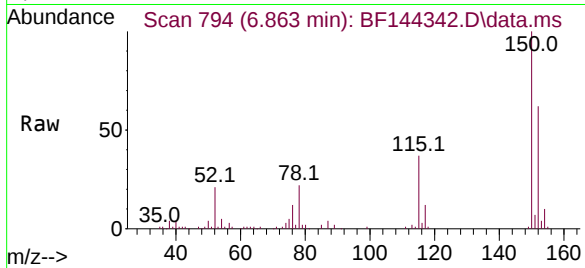




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 796
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

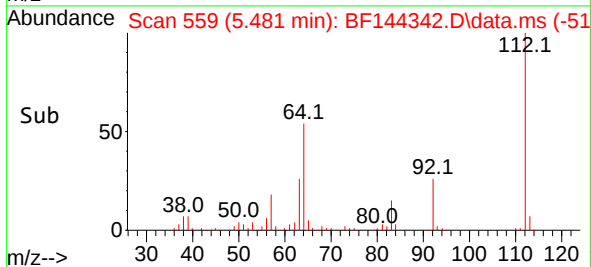
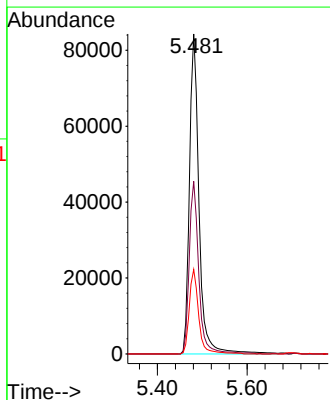
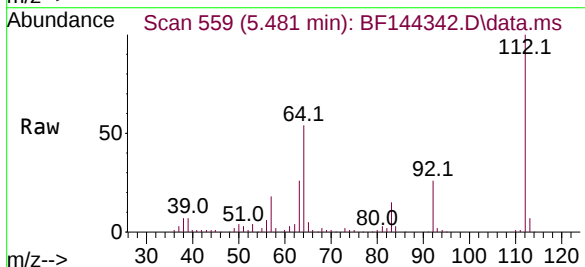
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

Tgt Ion:152 Resp: 49093
Ion Ratio Lower Upper
152 100
150 160.1 127.4 191.0
115 59.6 49.5 74.3



#5
2-Fluorophenol
Concen: 39.766 ng
RT: 5.481 min Scan# 559
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion:112 Resp: 124752
Ion Ratio Lower Upper
112 100
64 53.9 47.2 70.8
63 26.4 24.4 36.6

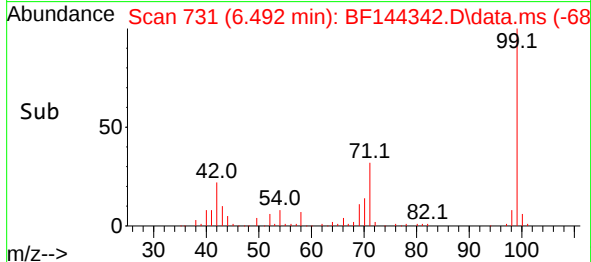
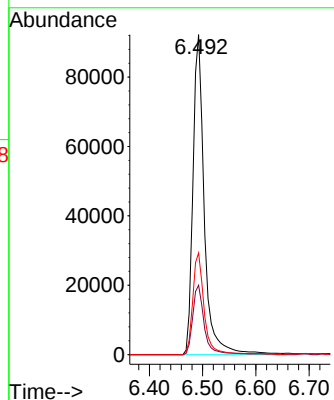
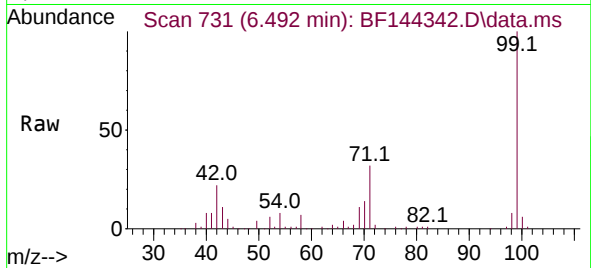




#7
Phenol-d6
Concen: 38.550 ng
RT: 6.492 min Scan# 731
Delta R.T. -0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

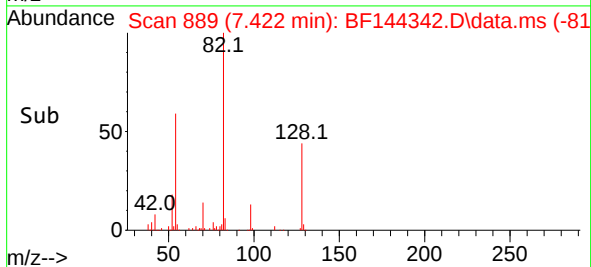
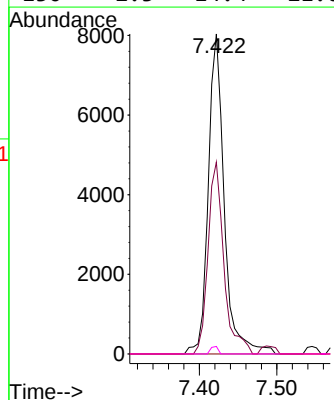
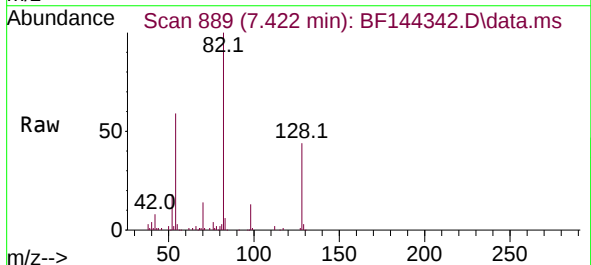
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

Tgt Ion: 99 Resp: 137033
Ion Ratio Lower Upper
99 100
42 21.7 20.9 31.3
71 31.8 31.4 47.2



#19
n-Nitroso-di-n-propylamine
Concen: 4.920 ng
RT: 7.422 min Scan# 889
Delta R.T. 0.147 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion: 70 Resp: 11514
Ion Ratio Lower Upper
70 100
42 60.0 58.3 87.5
101 0.0 7.0 10.6#
130 2.3 14.4 21.6#

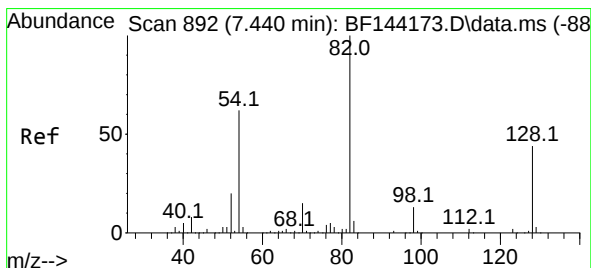
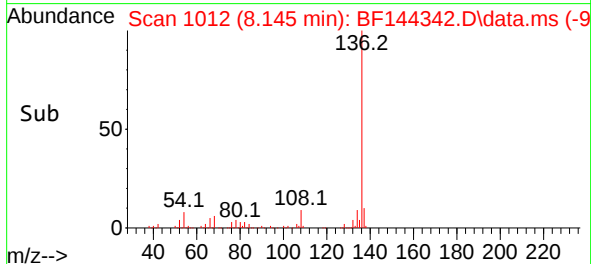
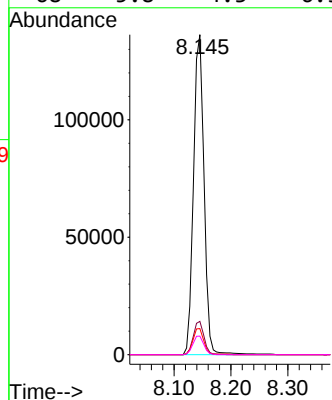
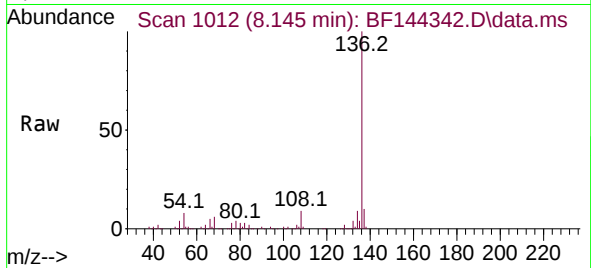




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1012
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

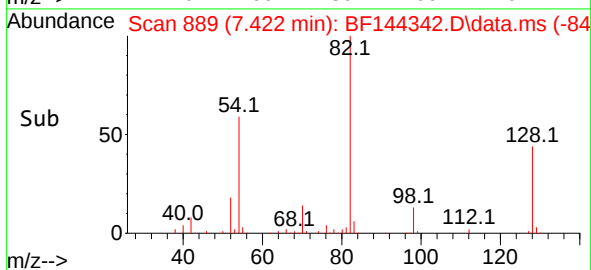
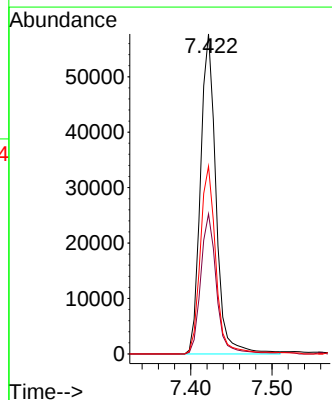
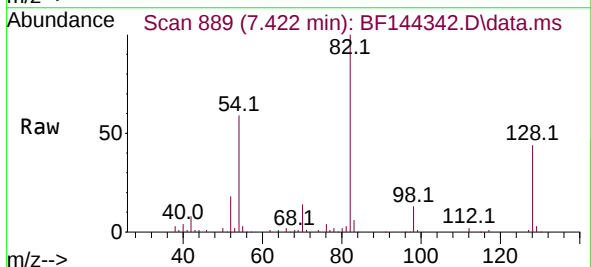
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

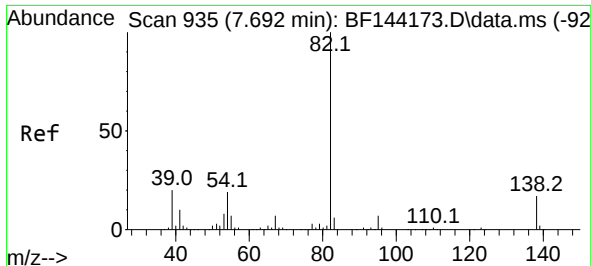
Tgt Ion:	136	Resp:	174927
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.6	13.0
54	8.1	7.0	10.6
68	5.8	4.3	6.5



#23
Nitrobenzene-d5
Concen: 25.333 ng
RT: 7.422 min Scan# 889
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion:	82	Resp:	76727
Ion	Ratio	Lower	Upper
82	100		
128	43.7	34.7	52.1
54	58.6	49.5	74.3

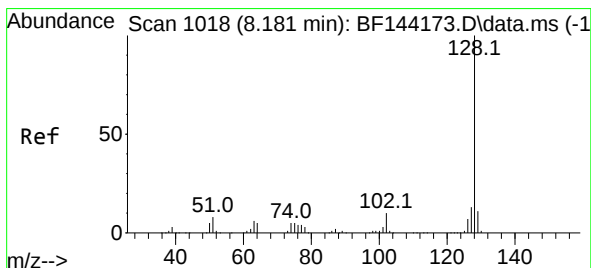
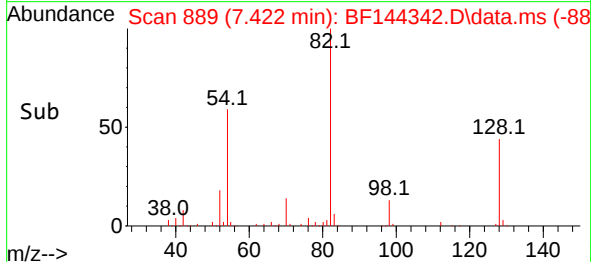
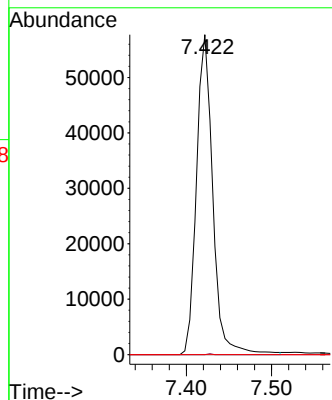
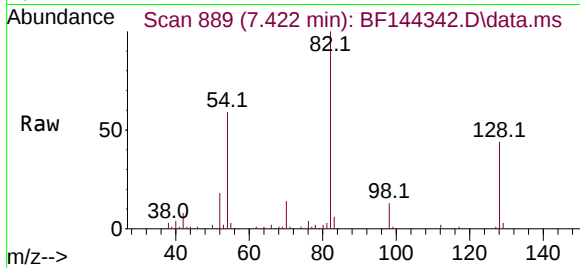




#25
Isophorone
Concen: 13.393 ng
RT: 7.422 min Scan# 88
Delta R.T. -0.265 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

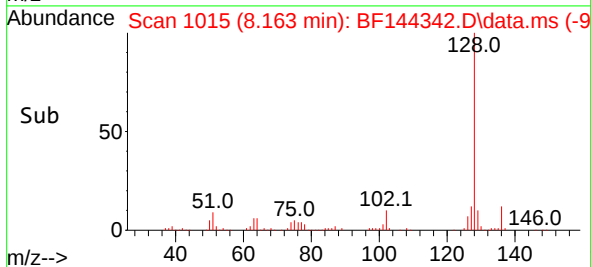
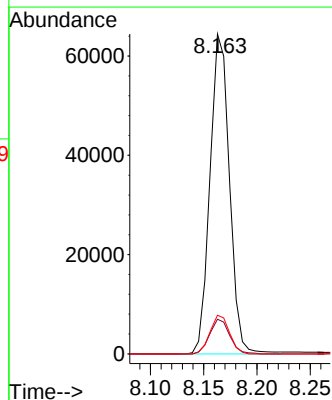
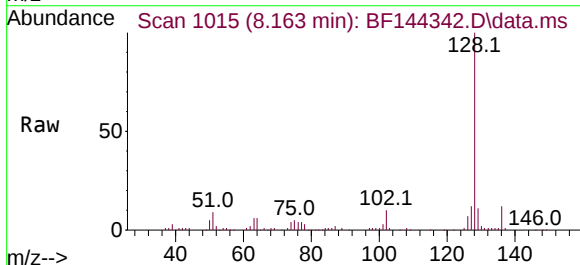
Instrument :
BNA_F
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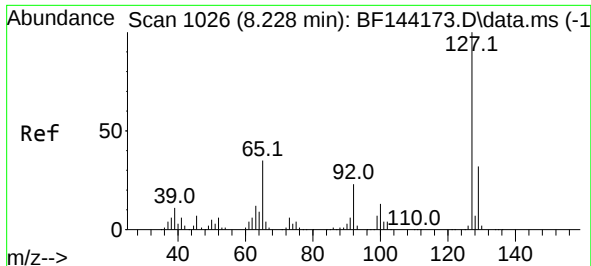
Tgt Ion: 82 Resp: 76726
Ion Ratio Lower Upper
82 100
95 0.0 5.5 8.3#
138 0.0 13.7 20.5#



#31
Naphthalene
Concen: 9.879 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion: 128 Resp: 82202
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 12.1 10.3 15.5

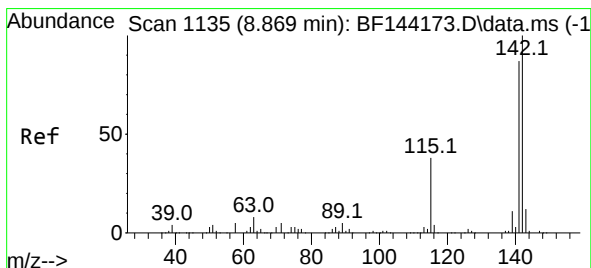
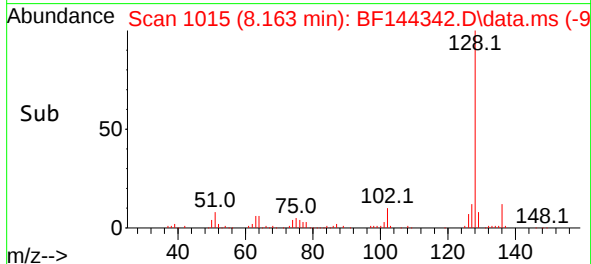
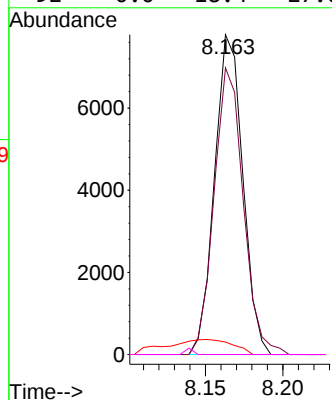
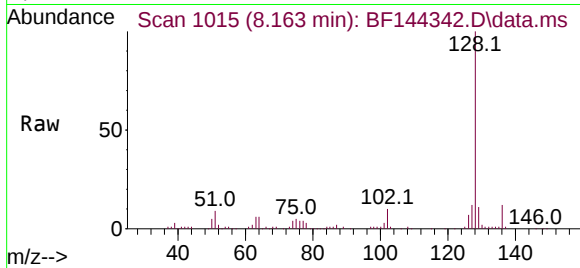




#33
4-Chloroaniline
Concen: 3.255 ng
RT: 8.163 min Scan# 1026
Delta R.T. -0.065 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

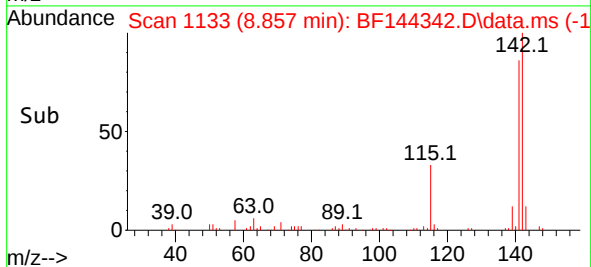
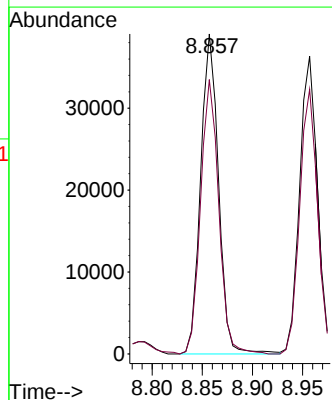
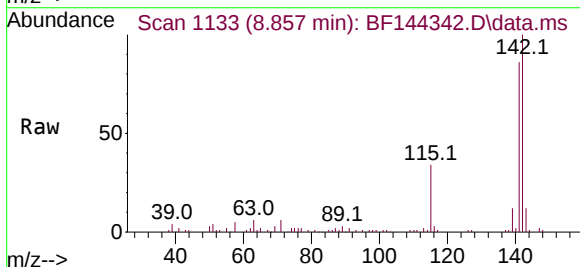
Instrument : BNA_F
ClientSampleId : WELD-SHOP-EXCAVATION

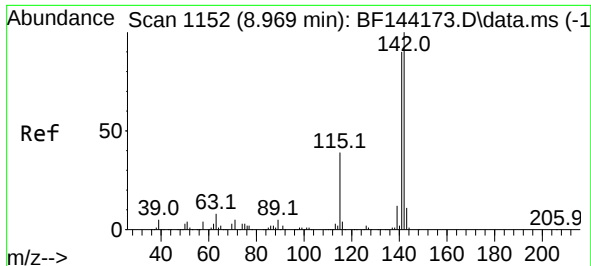
Tgt Ion:	127	Resp:	9877
Ion	Ratio	Lower	Upper
127	100		
129	89.6	25.3	37.9#
65	3.9	27.6	41.4#
92	0.0	18.4	27.6#



#37
2-Methylnaphthalene
Concen: 8.680 ng
RT: 8.857 min Scan# 1133
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion:	142	Resp:	48289
Ion	Ratio	Lower	Upper
142	100		
141	85.7	69.9	104.9

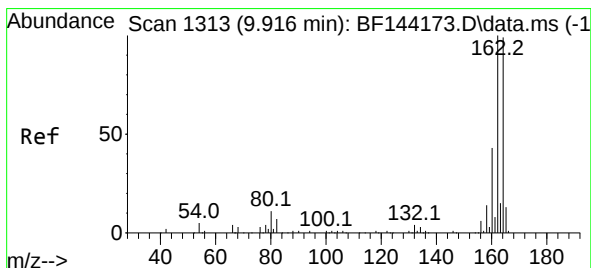
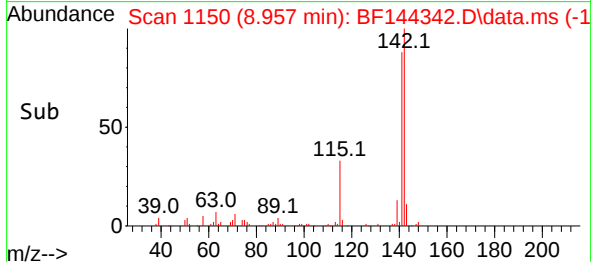
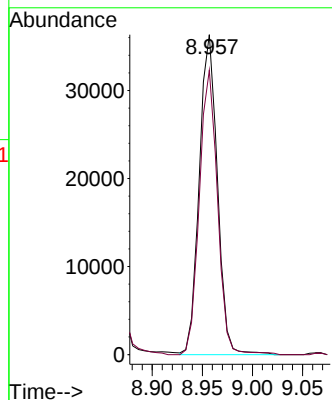
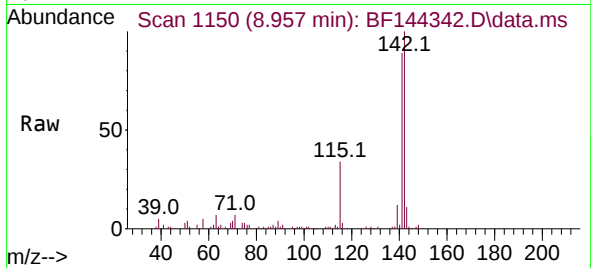




#38
1-Methylnaphthalene
Concen: 8.470 ng
RT: 8.957 min Scan# 1152
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

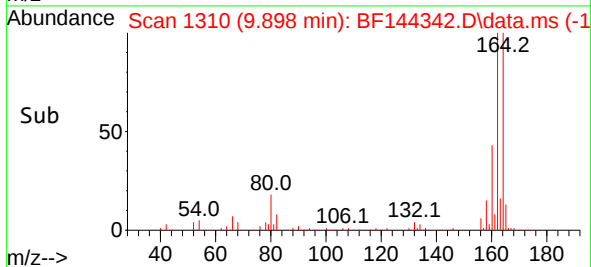
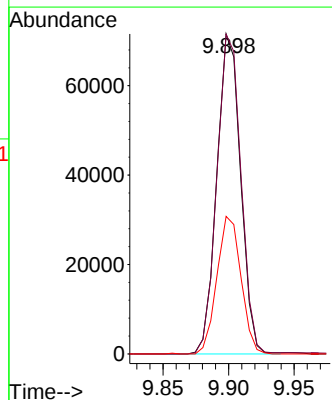
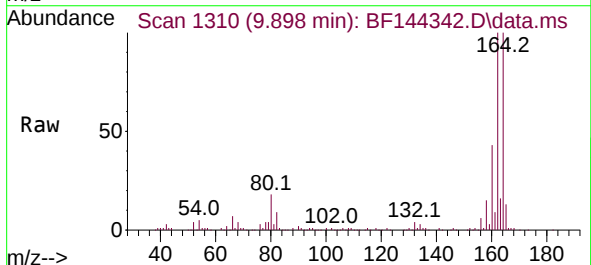
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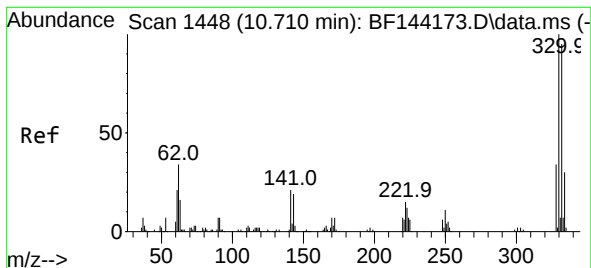
Tgt Ion:142 Resp: 45467
Ion Ratio Lower Upper
142 100
141 88.9 72.1 108.1



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 1310
Delta R.T. -0.018 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

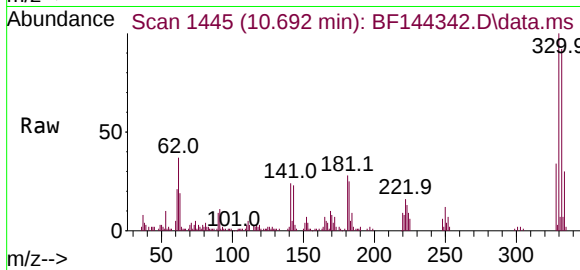
Tgt Ion:164 Resp: 90247
Ion Ratio Lower Upper
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162 99.9 81.1 121.7
160 43.0 34.5 51.7



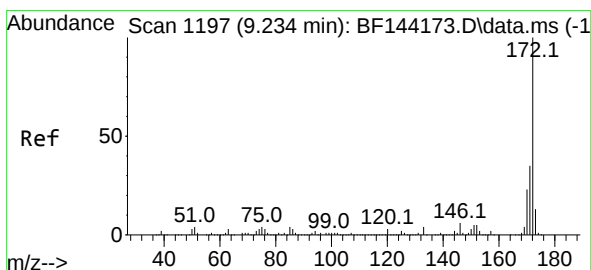
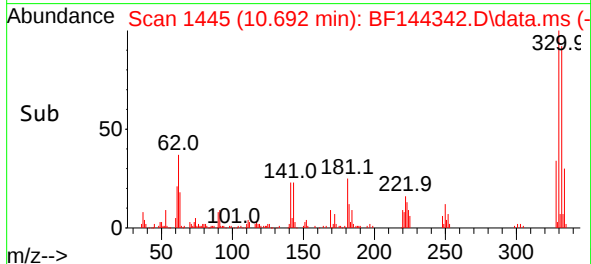
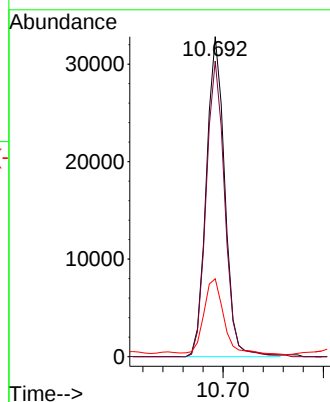


#42
2,4,6-Tribromophenol
Concen: 36.943 ng
RT: 10.692 min Scan# 1445
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

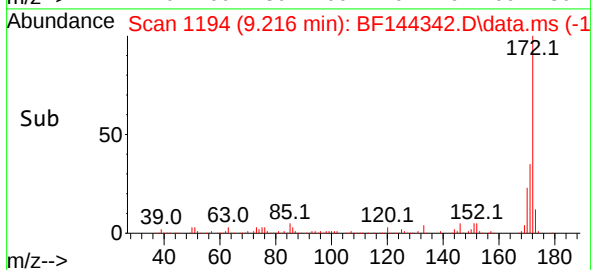
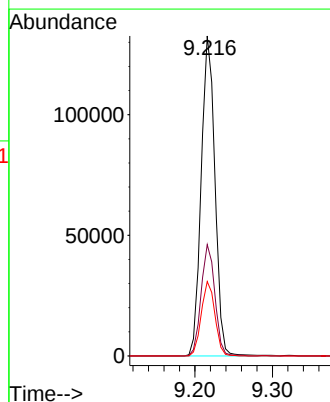
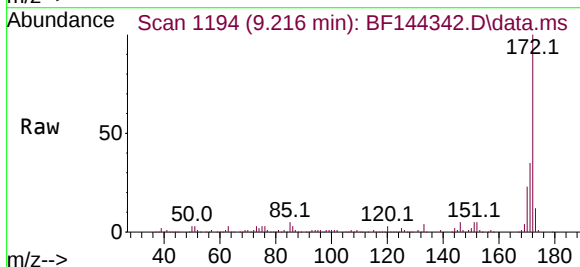


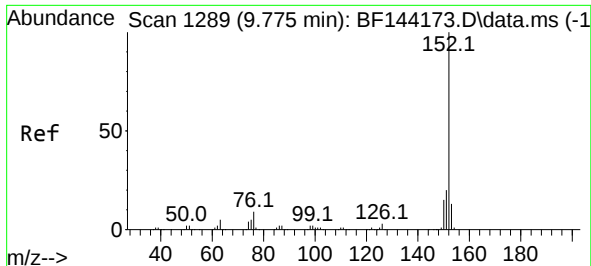
Tgt Ion: 330 Resp: 41838
Ion Ratio Lower Upper
330 100
332 92.7 76.7 115.1
141 26.2 17.8 26.8



#45
2-Fluorobiphenyl
Concen: 26.727 ng
RT: 9.216 min Scan# 1194
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion: 172 Resp: 163311
Ion Ratio Lower Upper
172 100
171 34.8 28.1 42.1
170 23.2 18.6 28.0





#49

Acenaphthylene

Concen: 10.958 ng

RT: 9.763 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATION

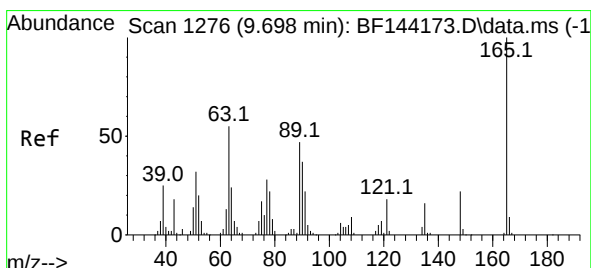
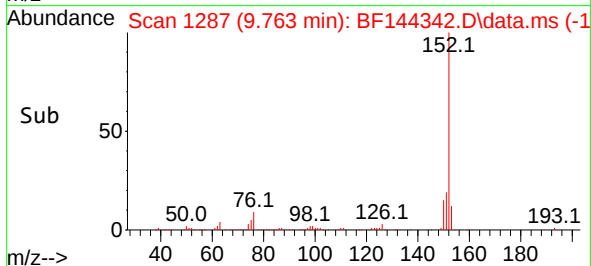
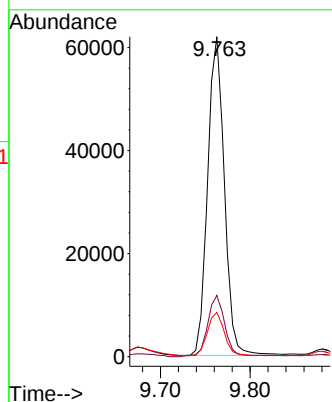
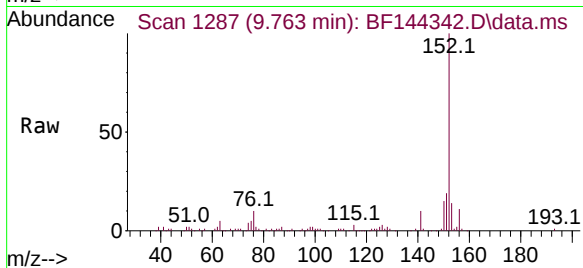
Tgt Ion:152 Resp: 80240

Ion Ratio Lower Upper

152 100

151 19.1 15.9 23.9

153 13.8 10.5 15.7



#51

2,6-Dinitrotoluene

Concen: 11.393 ng

RT: 9.898 min Scan# 1310

Delta R.T. 0.206 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

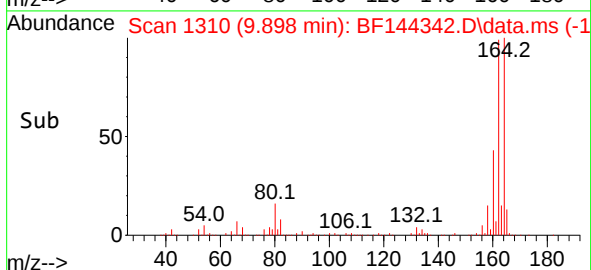
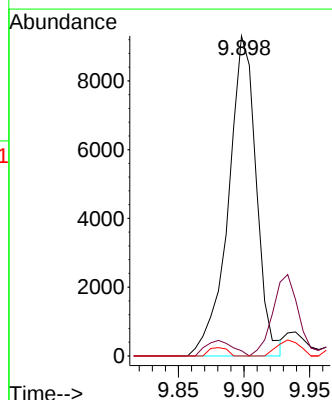
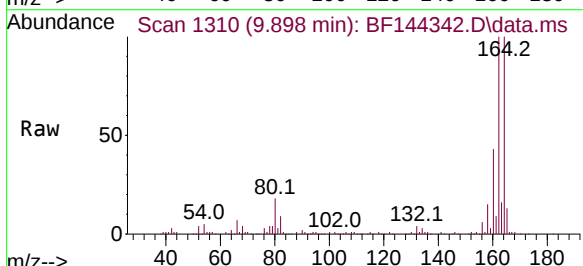
Tgt Ion:165 Resp: 13789

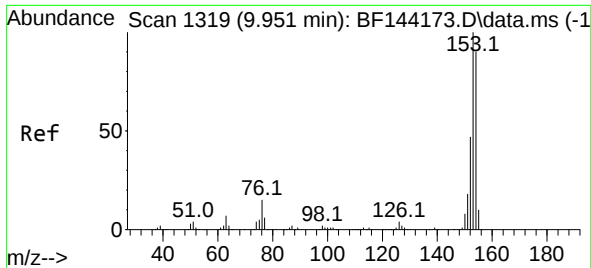
Ion Ratio Lower Upper

165 100

63 1.6 43.8 65.8#

89 0.0 37.5 56.3#

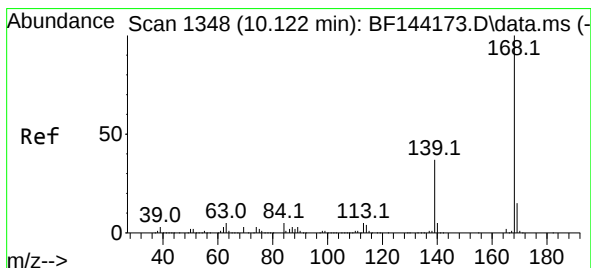
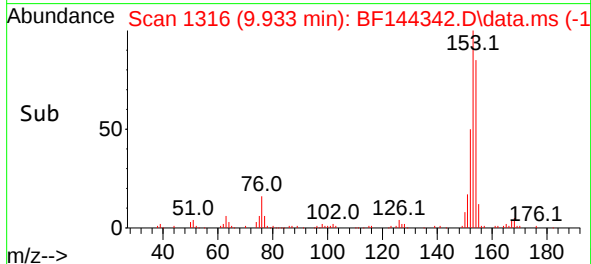
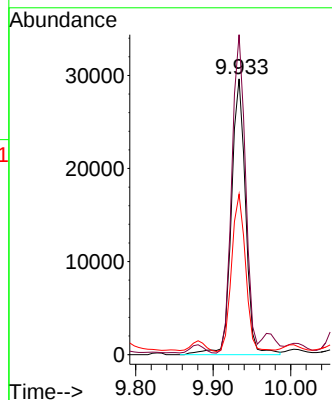
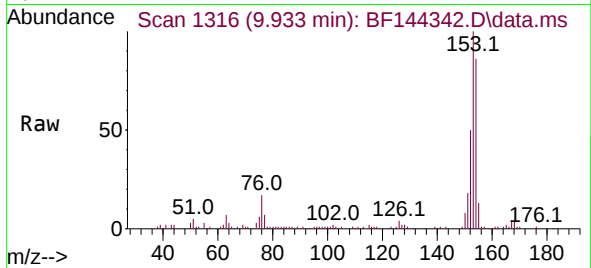




#52
Acenaphthene
Concen: 7.742 ng
RT: 9.933 min Scan# 1316
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

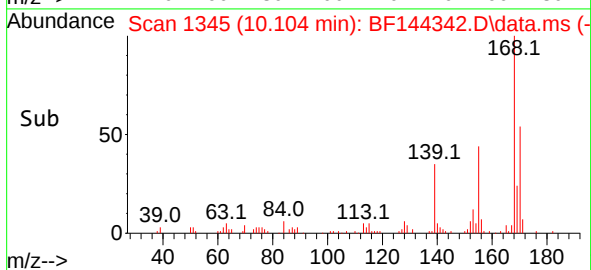
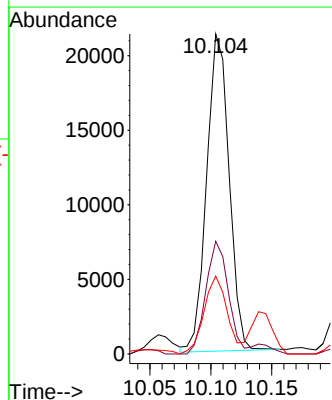
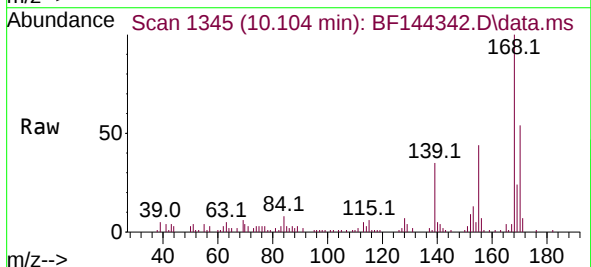
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

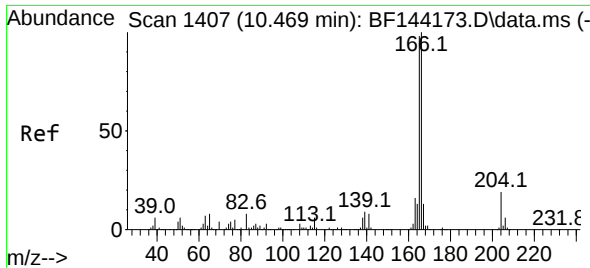
Tgt Ion:154 Resp: 37911
Ion Ratio Lower Upper
154 100
153 116.1 89.0 133.4
152 58.2 42.2 63.4



#55
Dibenzofuran
Concen: 3.990 ng
RT: 10.104 min Scan# 1345
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion:168 Resp: 27366
Ion Ratio Lower Upper
168 100
139 35.2 30.2 45.2
169 24.3 12.2 18.4#

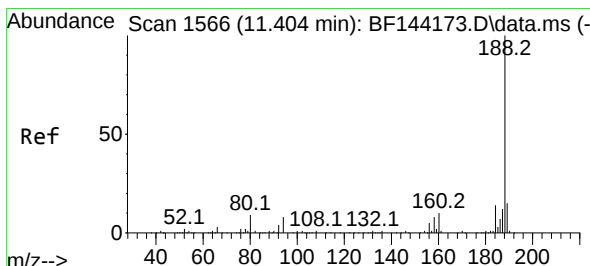
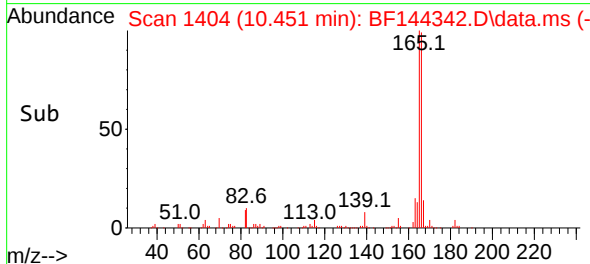
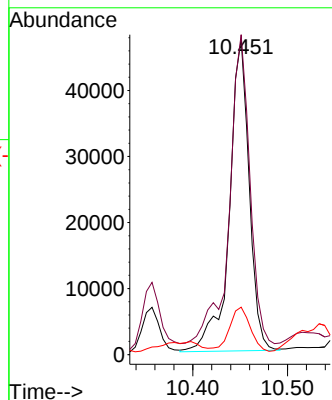
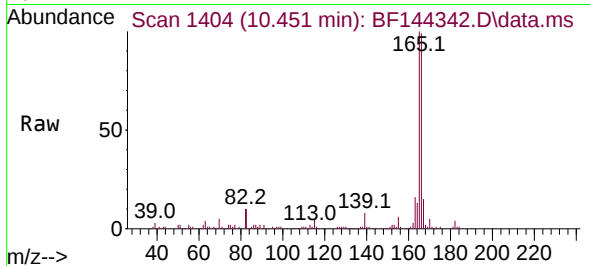




#58
 Fluorene
 Concen: 13.210 ng
 RT: 10.451 min Scan# 1407
 Delta R.T. -0.012 min
 Lab File: BF144342.D
 Acq: 25 Nov 2025 00:12

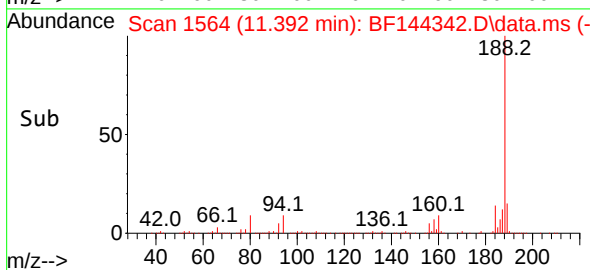
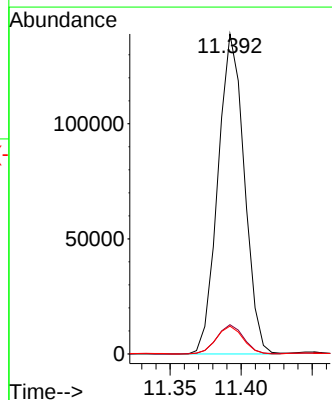
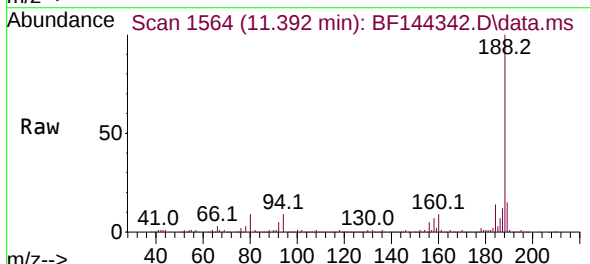
Instrument :
 BNA_F
 ClientSampleId :
 WELD-SHOP-EXCAVATION

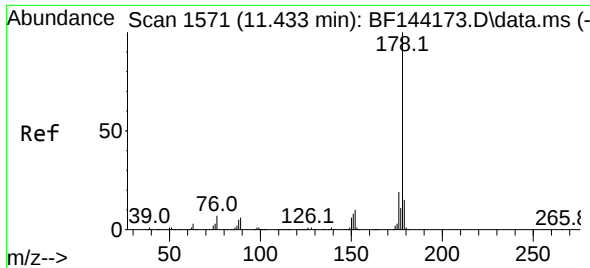
Tgt Ion:166 Resp: 68883
 Ion Ratio Lower Upper
 166 100
 165 101.5 78.6 118.0
 167 15.1 10.4 15.6



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.392 min Scan# 1564
 Delta R.T. -0.012 min
 Lab File: BF144342.D
 Acq: 25 Nov 2025 00:12

Tgt Ion:188 Resp: 179350
 Ion Ratio Lower Upper
 188 100
 94 9.1 6.2 9.2
 80 8.7 6.9 10.3

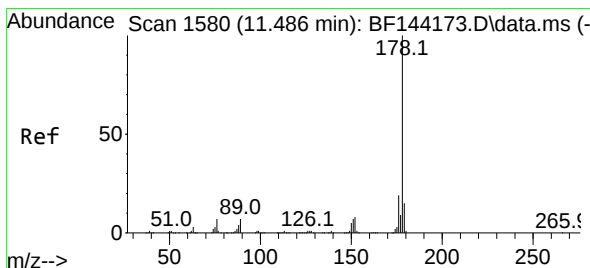
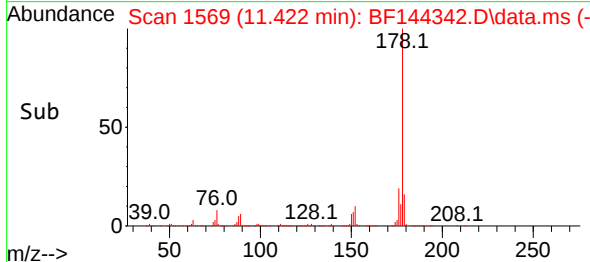
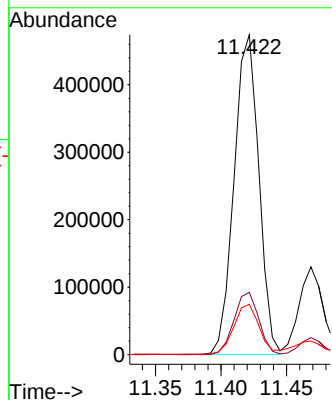
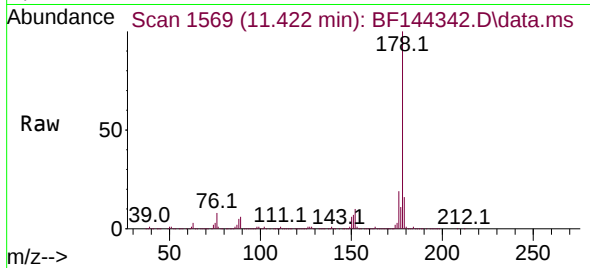




#71
Phenanthrene
Concen: 69.527 ng
RT: 11.422 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

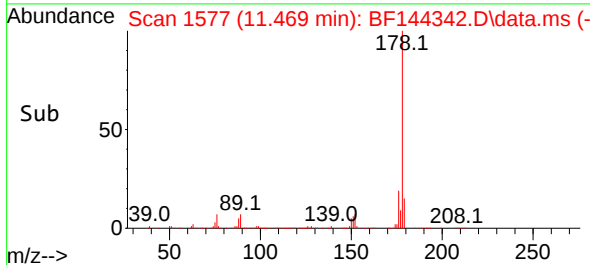
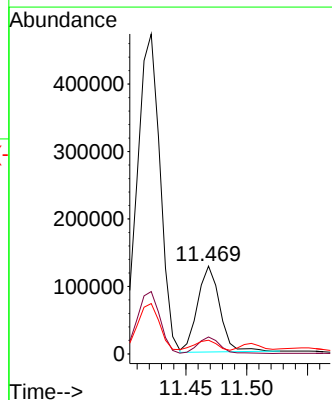
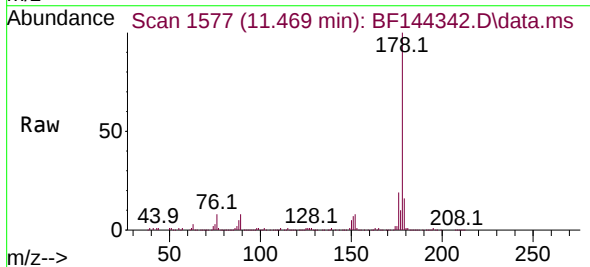
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

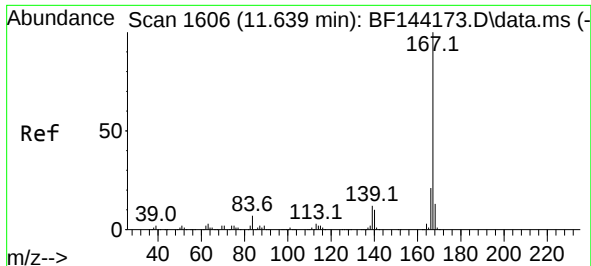
Tgt Ion:178 Resp: 620849
Ion Ratio Lower Upper
178 100
176 19.5 15.5 23.3
179 15.7 12.2 18.4



#72
Anthracene
Concen: 17.857 ng
RT: 11.469 min Scan# 1577
Delta R.T. -0.012 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion:178 Resp: 162141
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.6 12.0 18.0

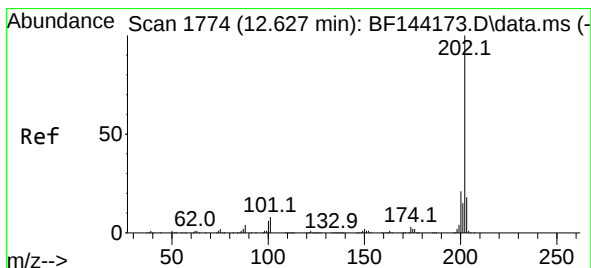
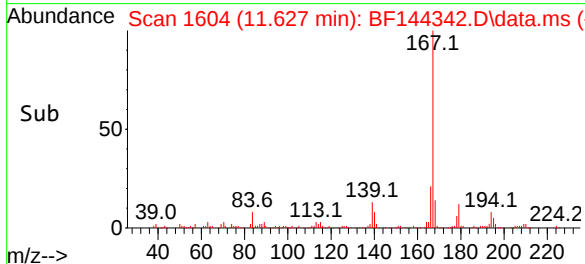
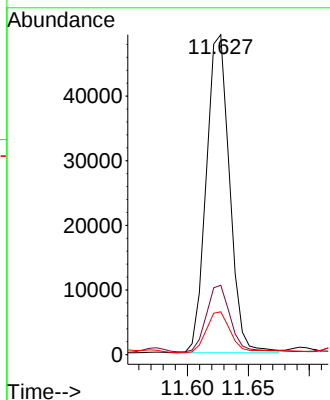
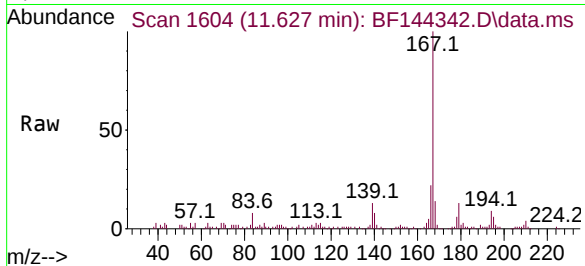




#73
 Carbazole
 Concen: 8.500 ng
 RT: 11.627 min Scan# 1604
 Delta R.T. -0.012 min
 Lab File: BF144342.D
 Acq: 25 Nov 2025 00:12

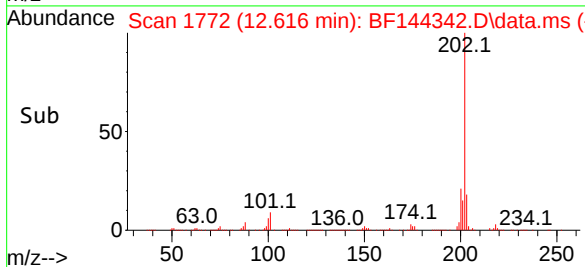
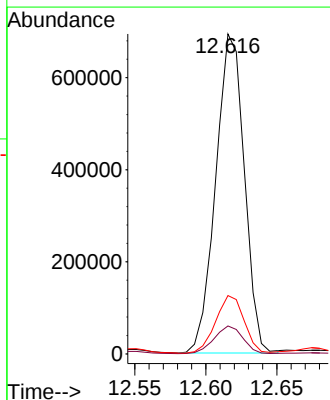
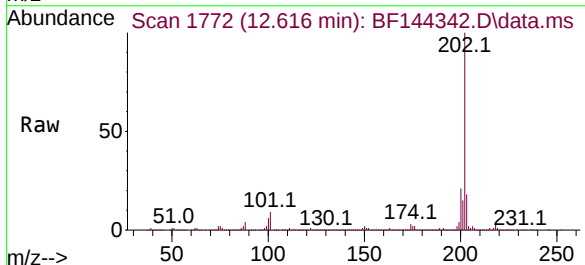
Instrument :
 BNA_F
 ClientSampleId :
 WELD-SHOP-EXCAVATION

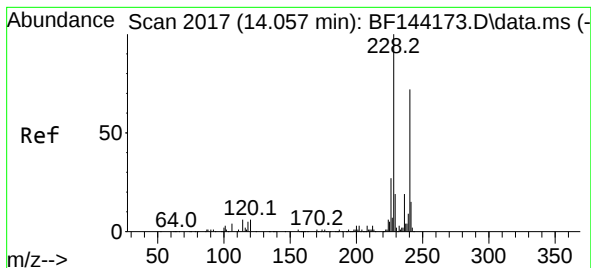
Tgt Ion:167 Resp: 65629
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.2 25.8
 139 13.4 9.9 14.9



#75
 Fluoranthene
 Concen: 105.274 ng
 RT: 12.616 min Scan# 1772
 Delta R.T. -0.006 min
 Lab File: BF144342.D
 Acq: 25 Nov 2025 00:12

Tgt Ion:202 Resp: 971079
 Ion Ratio Lower Upper
 202 100
 101 8.7 0.0 27.9
 203 18.2 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.051 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATION

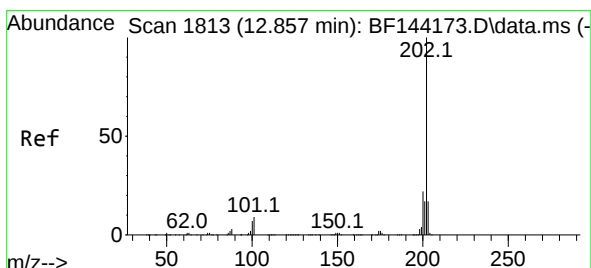
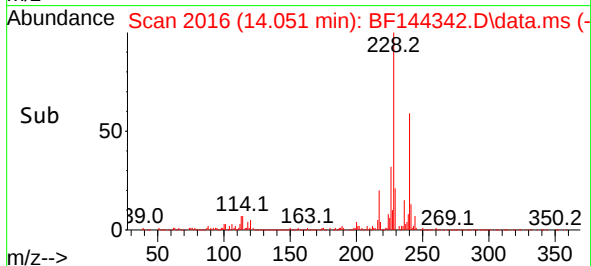
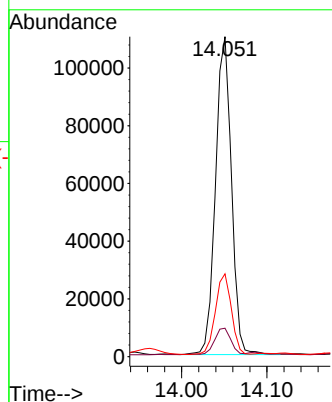
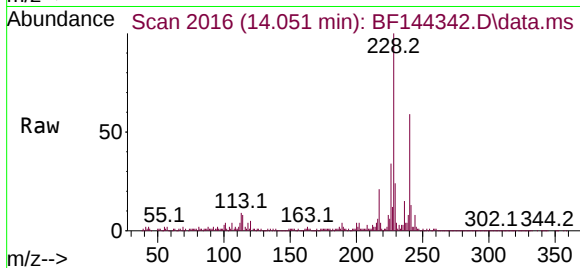
Tgt Ion:240 Resp: 143104

Ion Ratio Lower Upper

240 100

120 8.9 6.6 10.0

236 25.9 21.4 32.2



#78

Pyrene

Concen: 91.527 ng

RT: 12.851 min Scan# 1812

Delta R.T. -0.000 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

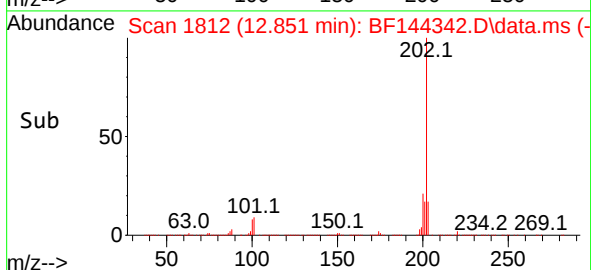
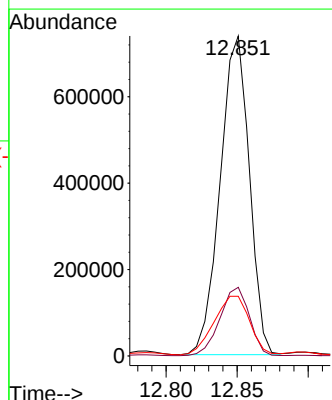
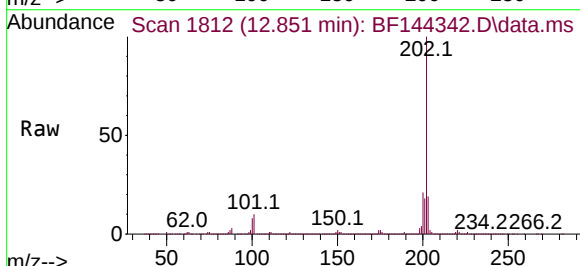
Tgt Ion:202 Resp: 1056071

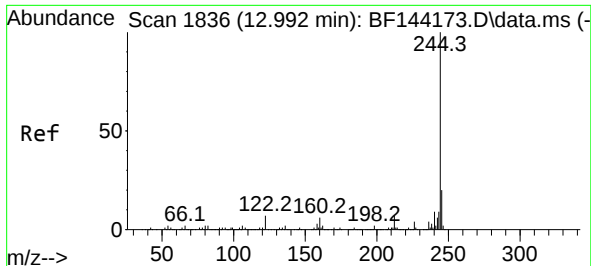
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

203 18.6 13.7 20.5

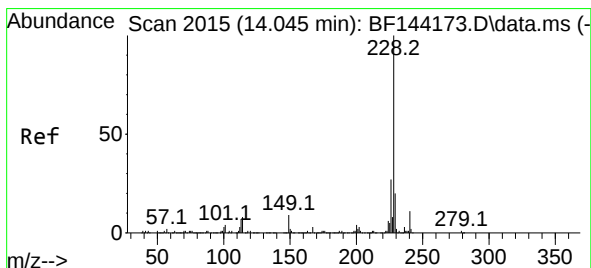
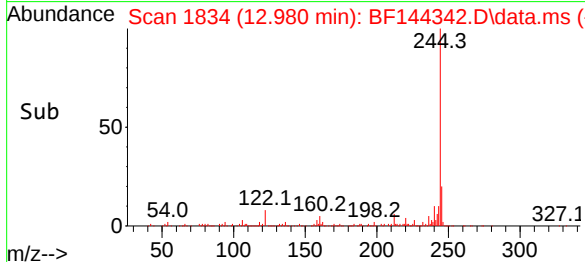
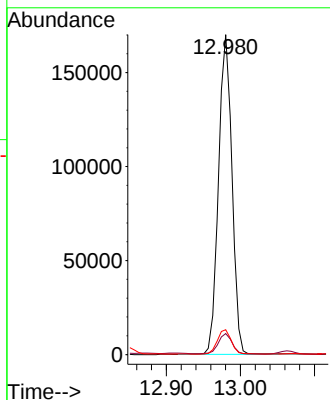
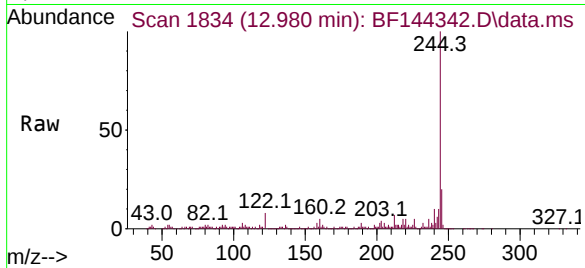




#79
 Terphenyl-d14
 Concen: 23.761 ng
 RT: 12.980 min Scan# 1834
 Delta R.T. -0.012 min
 Lab File: BF144342.D
 Acq: 25 Nov 2025 00:12

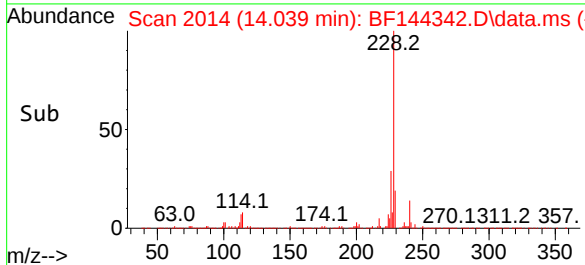
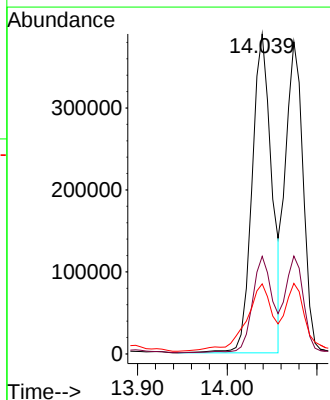
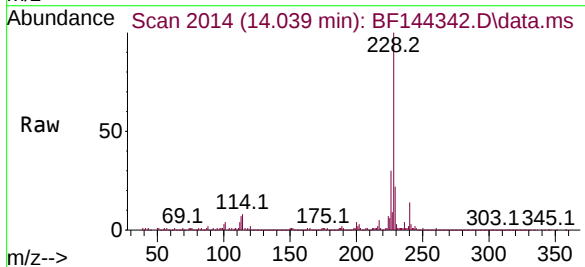
Instrument :
 BNA_F
 ClientSampleId :
 WELD-SHOP-EXCAVATION

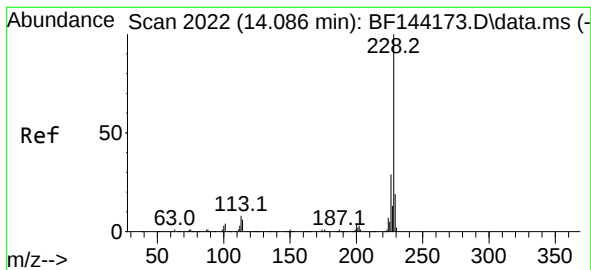
Tgt Ion:244 Resp: 214068
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.3 7.9
 122 7.8 5.6 8.4



#81
 Benzo(a)anthracene
 Concen: 59.898 ng
 RT: 14.039 min Scan# 2014
 Delta R.T. -0.006 min
 Lab File: BF144342.D
 Acq: 25 Nov 2025 00:12

Tgt Ion:228 Resp: 594076
 Ion Ratio Lower Upper
 228 100
 226 30.5 21.8 32.8
 229 21.9 15.8 23.6





#83

Chrysene

Concen: 64.885 ng

RT: 14.039 min Scan# 20

Delta R.T. -0.041 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATION

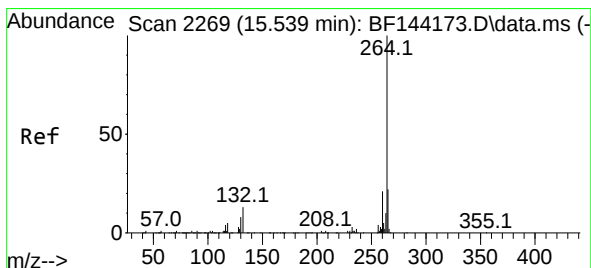
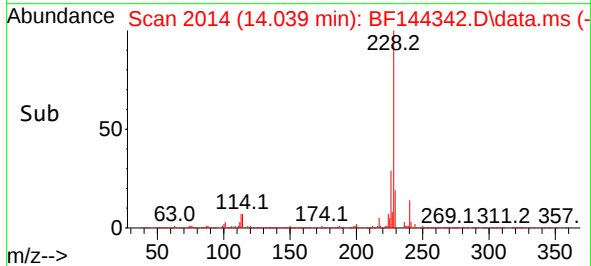
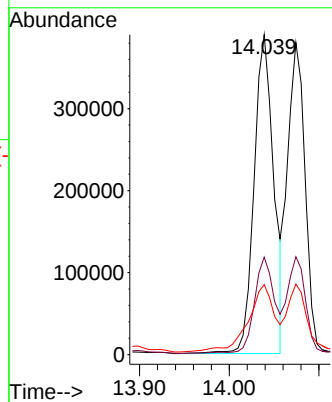
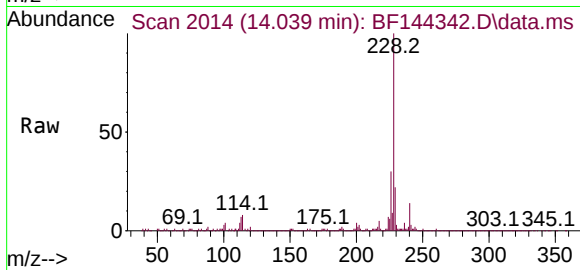
Tgt Ion:228 Resp: 594076

Ion Ratio Lower Upper

228 100

226 30.5 22.9 34.3

229 21.9 15.0 22.6



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 2268

Delta R.T. -0.006 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

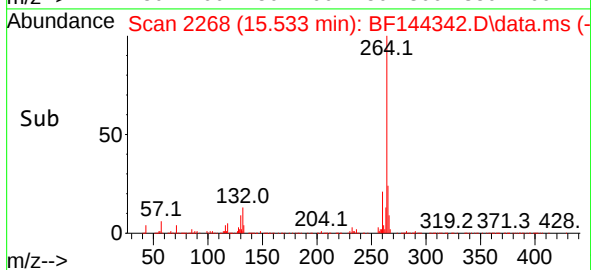
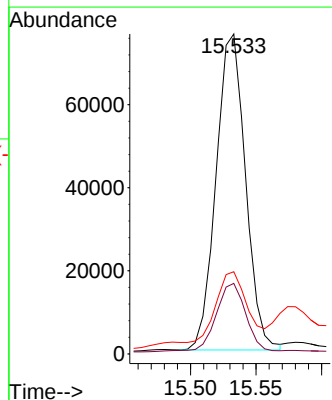
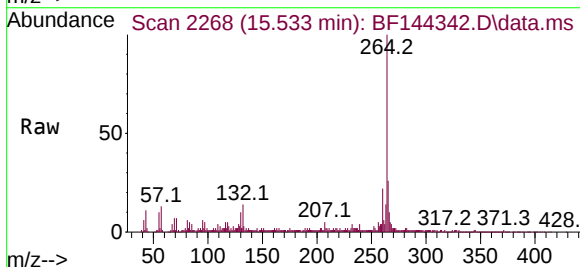
Tgt Ion:264 Resp: 119117

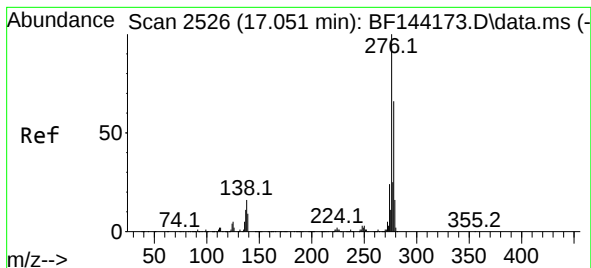
Ion Ratio Lower Upper

264 100

260 22.0 17.1 25.7

265 25.7 17.4 26.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 20.675 ng

RT: 17.033 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATION

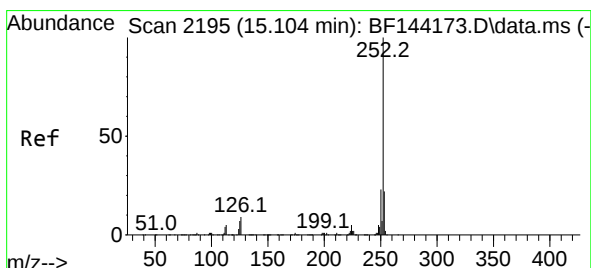
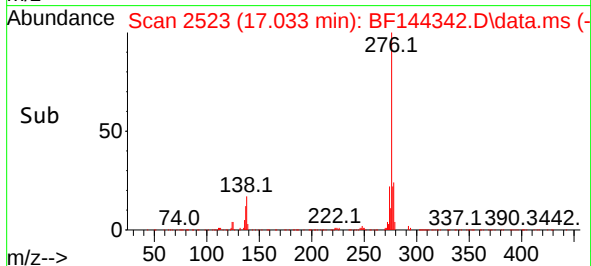
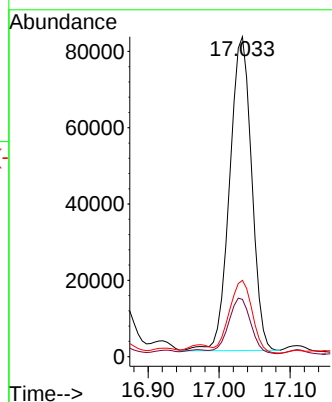
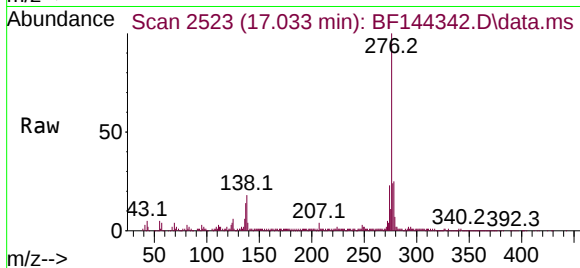
Tgt Ion:276 Resp: 176785

Ion Ratio Lower Upper

276 100

138 17.9 13.9 20.9

277 24.1 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 88.454 ng

RT: 15.104 min Scan# 2195

Delta R.T. 0.006 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

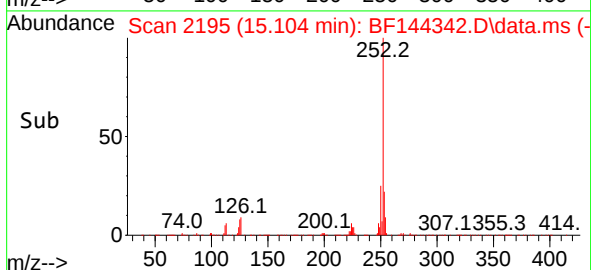
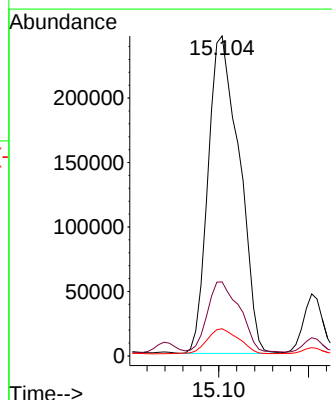
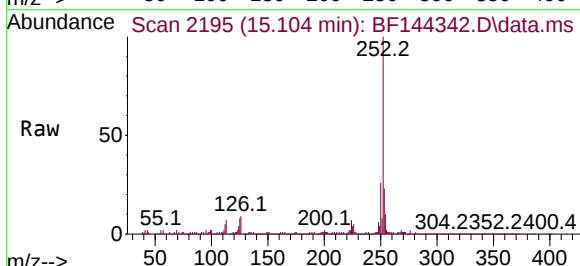
Tgt Ion:252 Resp: 599012

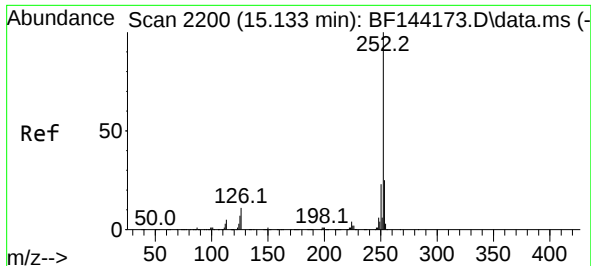
Ion Ratio Lower Upper

252 100

253 23.1 17.4 26.2

125 8.5 5.3 7.9#

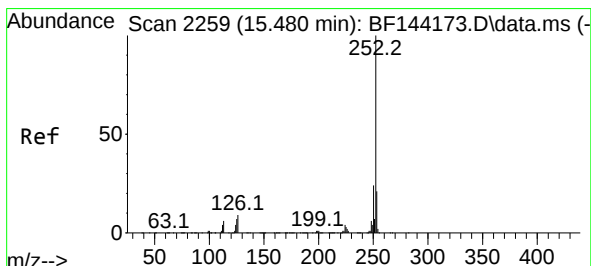
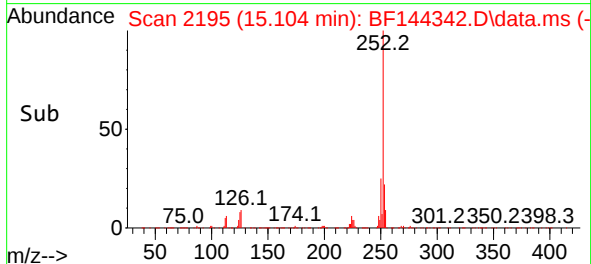
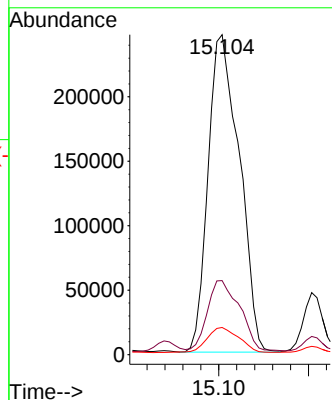
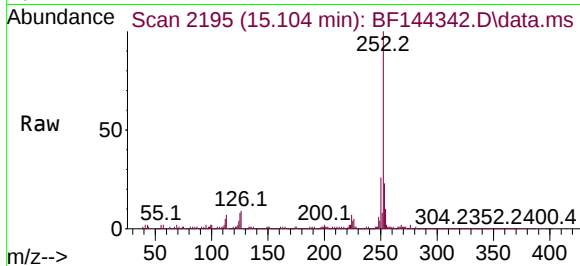




#89
Benzo(k)fluoranthene
Concen: 94.502 ng
RT: 15.104 min Scan# 21
Delta R.T. -0.024 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

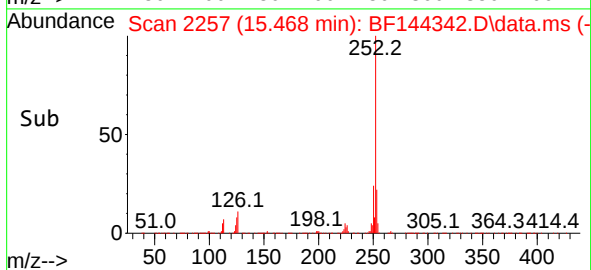
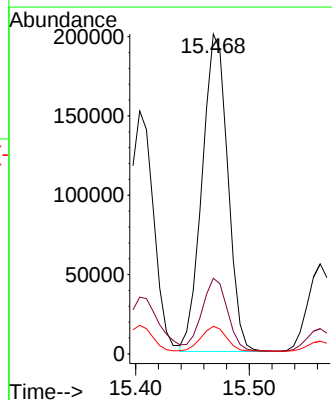
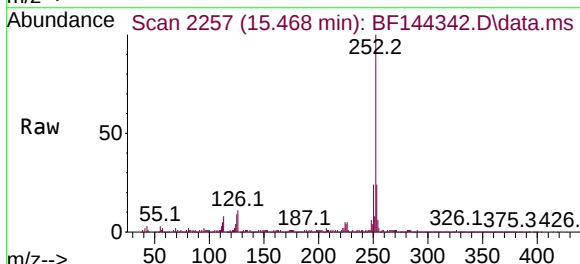
Instrument :
BNA_F
ClientSampleId :
WELD-SHOP-EXCAVATION

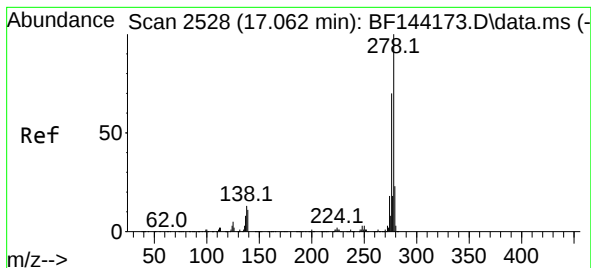
Tgt Ion:252 Resp: 599012
Ion Ratio Lower Upper
252 100
253 23.1 18.0 27.0
125 8.5 5.4 8.2#



#90
Benzo(a)pyrene
Concen: 50.295 ng
RT: 15.468 min Scan# 2257
Delta R.T. -0.006 min
Lab File: BF144342.D
Acq: 25 Nov 2025 00:12

Tgt Ion:252 Resp: 314215
Ion Ratio Lower Upper
252 100
253 23.6 16.7 25.1
125 8.6 5.7 8.5#





#91

Dibenzo(a,h)anthracene

Concen: 6.798 ng

RT: 17.033 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Instrument :

BNA_F

ClientSampleId :

WELD-SHOP-EXCAVATION

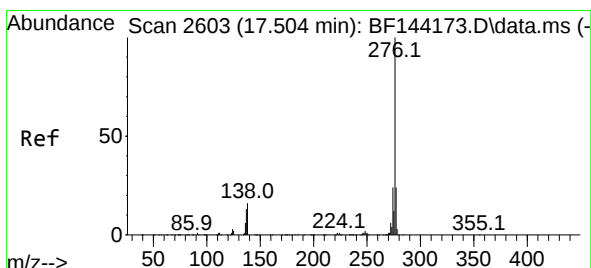
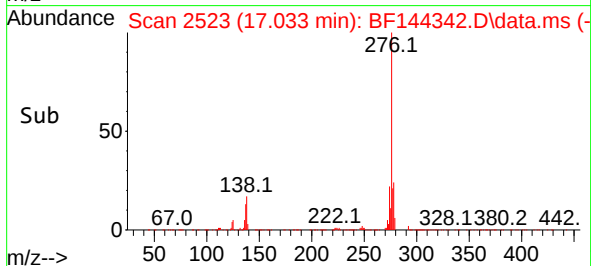
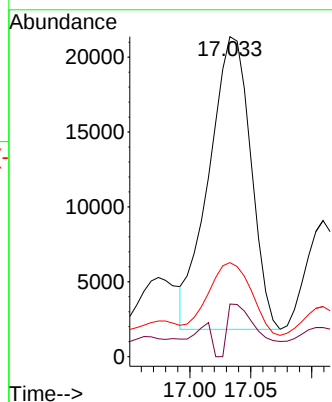
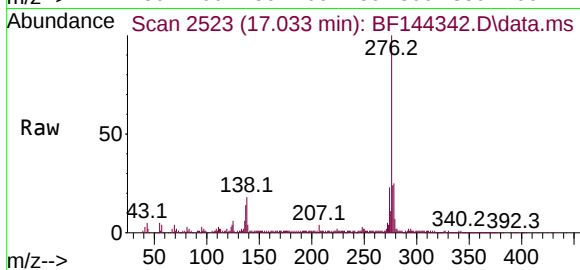
Tgt Ion:278 Resp: 46683

Ion Ratio Lower Upper

278 100

139 16.4 9.1 13.7#

279 29.4 18.2 27.4#



#92

Benzo(g,h,i)perylene

Concen: 26.693 ng

RT: 17.492 min Scan# 2601

Delta R.T. -0.000 min

Lab File: BF144342.D

Acq: 25 Nov 2025 00:12

Tgt Ion:276 Resp: 181015

Ion Ratio Lower Upper

276 100

277 24.4 19.0 28.4

138 18.8 12.9 19.3

