

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081925\
 Data File : BF143453.D
 Acq On : 19 Aug 2025 13:30
 Operator : RC/JU
 Sample : Q2879-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP05-081425

Quant Time: Aug 19 13:59:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF081525.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 18 04:40:19 2025
 Response via : Initial Calibration

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

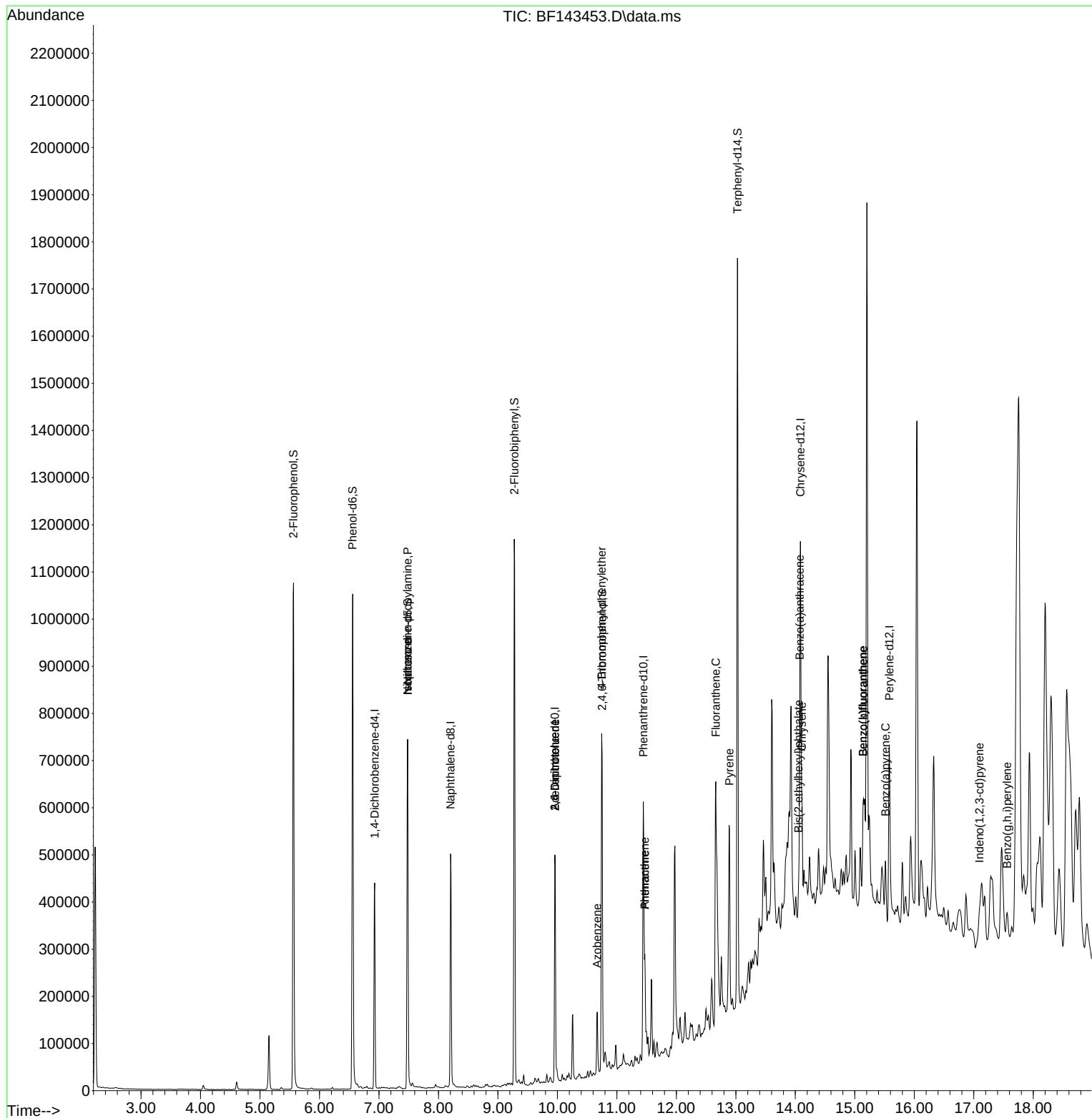
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.928	152	93170	20.000	ng	0.00
21) Naphthalene-d8	8.204	136	315157	20.000	ng	0.00
39) Acenaphthene-d10	9.957	164	143358	20.000	ng	0.00
64) Phenanthrene-d10	11.445	188	276131	20.000	ng	0.00
76) Chrysene-d12	14.086	240	302358	20.000	ng	0.00
86) Perylene-d12	15.580	264	207438	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.563	112	409160	76.339	ng	0.00
7) Phenol-d6	6.557	99	469539	69.515	ng	0.00
23) Nitrobenzene-d5	7.481	82	313869	59.096	ng	0.00
42) 2,4,6-Tribromophenol	10.751	330	121605	95.302	ng	0.00
45) 2-Fluorobiphenyl	9.275	172	516255	60.571	ng	0.00
79) Terphenyl-d14	13.027	244	754533	41.921	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.481	70	42256	10.105	ng	# 78
25) Isophorone	7.481	82	311949	30.688	ng	# 65
51) 2,6-Dinitrotoluene	9.957	165	20039	11.374	ng	# 24
57) 2,4-Dinitrotoluene	9.957	165	20160	8.582	ng	# 25
63) Azobenzene	10.669	77	31936	3.826	ng	# 1
67) 4-Bromophenyl-phenylether	10.745	248	8169	2.505	ng	# 1
71) Phenanthrene	11.469	178	98842	6.610	ng	100
72) Anthracene	11.469	178	98842	6.545	ng	99
75) Fluoranthene	12.663	202	260342	19.595	ng	99
78) Pyrene	12.892	202	231916	8.825	ng	99
81) Benzo(a)anthracene	14.074	228	137384	7.137	ng	95
83) Chrysene	14.110	228	130659	7.342	ng	98
84) Bis(2-ethylhexyl)phtha...	14.057	149	22096	2.390	ng	96
87) Indeno(1,2,3-cd)pyrene	17.098	276	38698	2.488	ng	94
88) Benzo(b)fluoranthene	15.139	252	165633	14.898	ng	# 93
89) Benzo(k)fluoranthene	15.139	252	165633	15.105	ng	# 93
90) Benzo(a)pyrene	15.515	252	71563	6.758	ng	# 94
92) Benzo(g,h,i)perylene	17.562	276	40674	3.259	ng	97

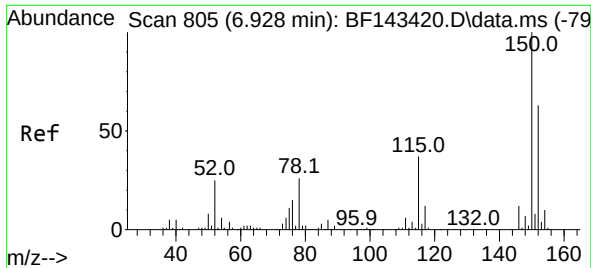
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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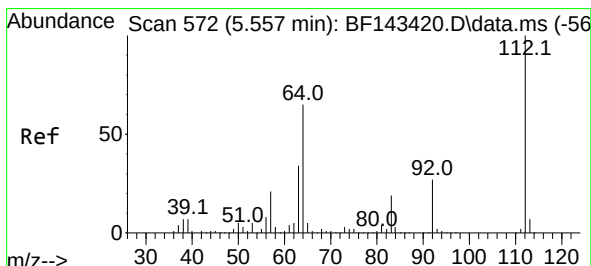
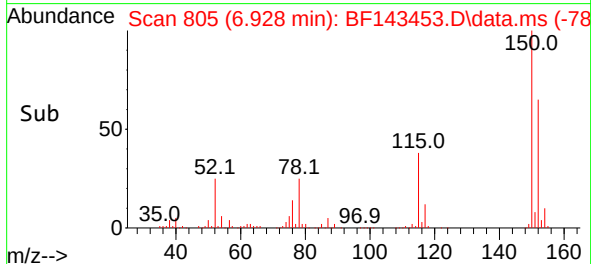
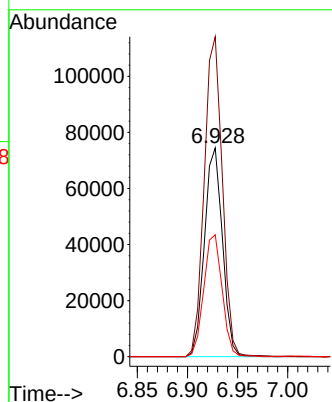
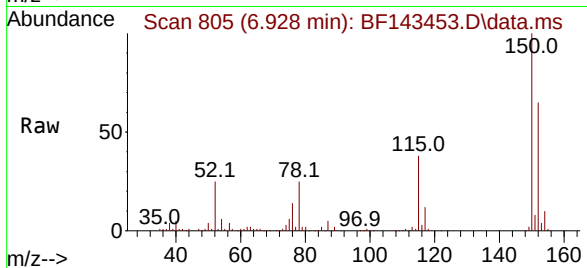




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.928 min Scan# 805
 Delta R.T. -0.000 min
 Lab File: BF143453.D
 Acq: 19 Aug 2025 13:30

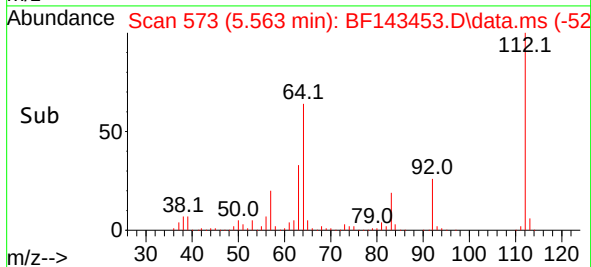
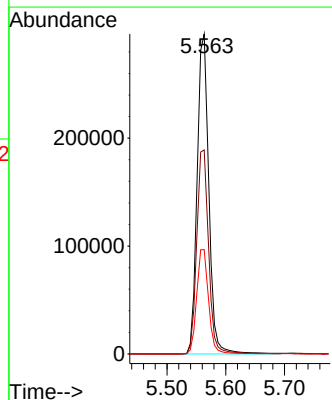
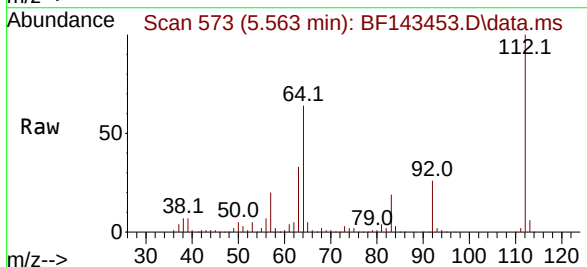
Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP05-081425

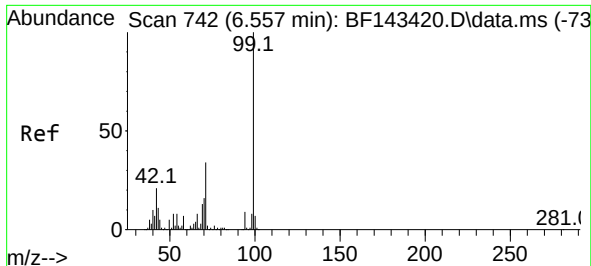
Tgt Ion:152 Resp: 93170
 Ion Ratio Lower Upper
 152 100
 150 153.2 127.4 191.2
 115 58.4 47.5 71.3



#5
 2-Fluorophenol
 Concen: 76.339 ng
 RT: 5.563 min Scan# 573
 Delta R.T. 0.006 min
 Lab File: BF143453.D
 Acq: 19 Aug 2025 13:30

Tgt Ion:112 Resp: 409160
 Ion Ratio Lower Upper
 112 100
 64 63.8 52.2 78.2
 63 32.6 27.0 40.6

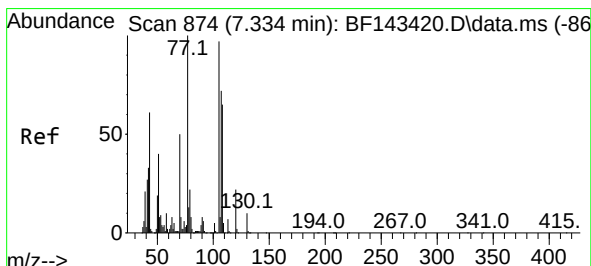
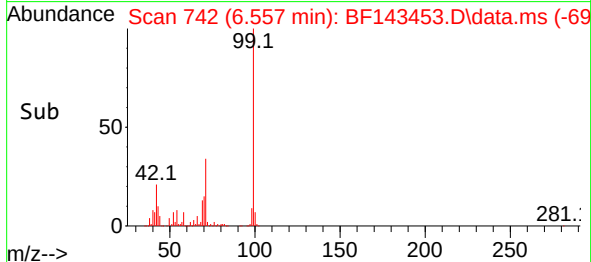
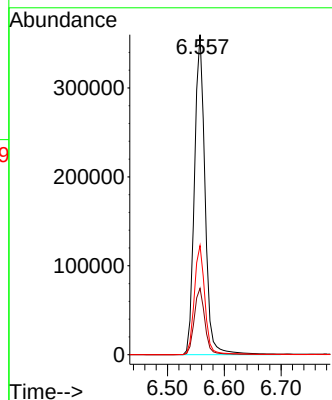
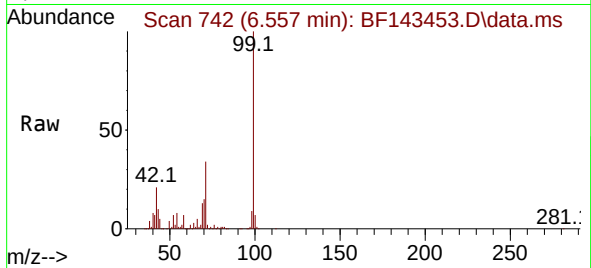




#7
Phenol-d6
Concen: 69.515 ng
RT: 6.557 min Scan# 742
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

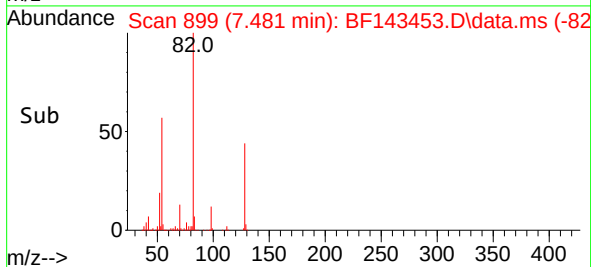
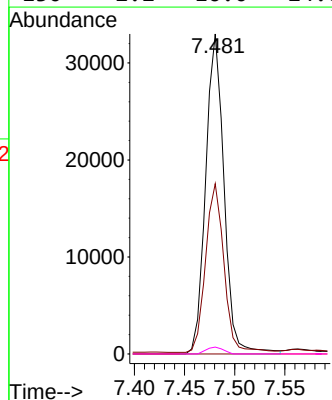
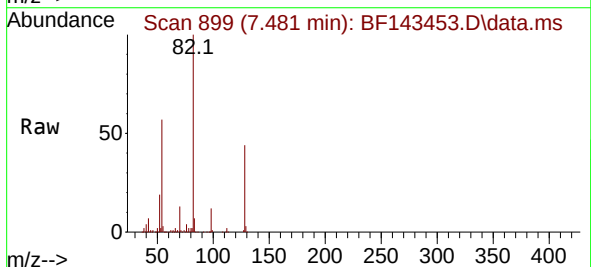
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425

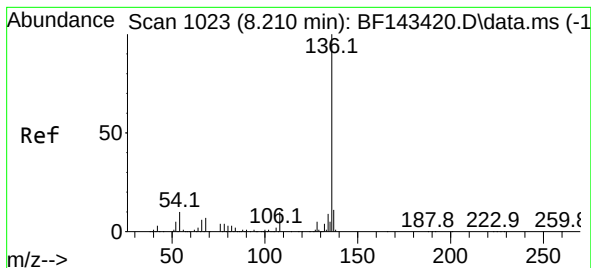
Tgt Ion: 99 Resp: 469539
Ion Ratio Lower Upper
99 100
42 20.7 17.0 25.6
71 34.1 27.4 41.2



#19
n-Nitroso-di-n-propylamine
Concen: 10.105 ng
RT: 7.481 min Scan# 899
Delta R.T. 0.147 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

Tgt Ion: 70 Resp: 42256
Ion Ratio Lower Upper
70 100
42 53.2 52.5 78.7
101 0.0 7.9 11.9#
130 2.2 16.0 24.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.204 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

Tgt Ion:136 Resp: 315157

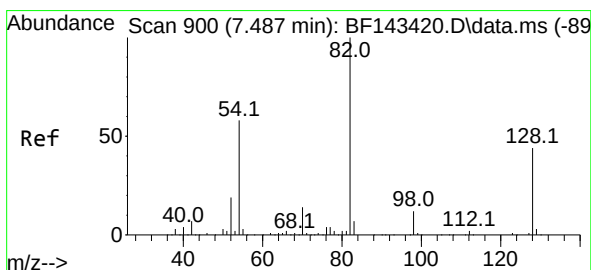
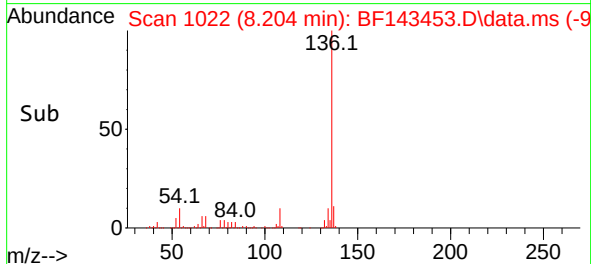
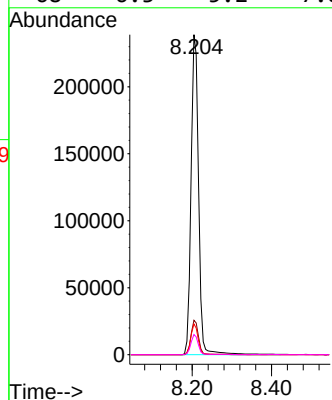
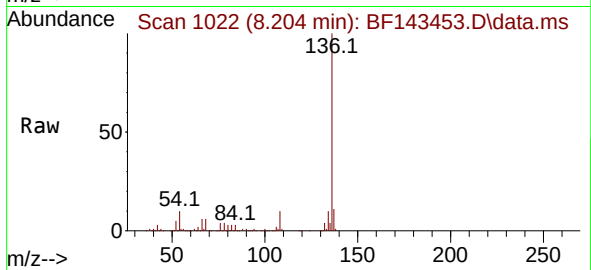
Ion Ratio Lower Upper

136 100

137 10.8 8.8 13.2

54 9.6 7.8 11.8

68 6.3 5.2 7.8



#23

Nitrobenzene-d5

Concen: 59.096 ng

RT: 7.481 min Scan# 899

Delta R.T. -0.006 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

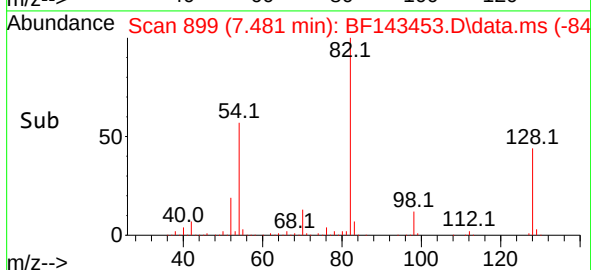
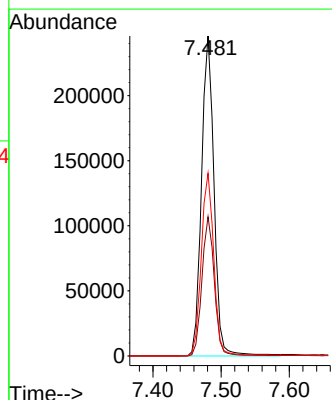
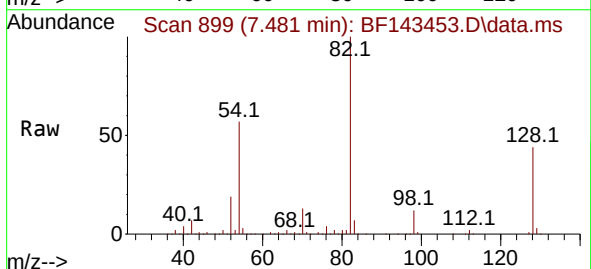
Tgt Ion: 82 Resp: 313869

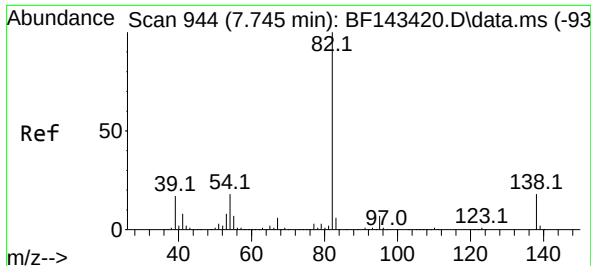
Ion Ratio Lower Upper

82 100

128 43.5 34.6 52.0

54 57.1 46.0 69.0

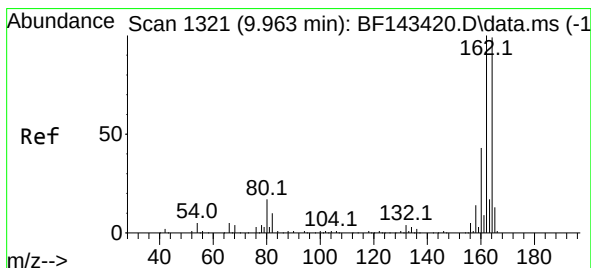
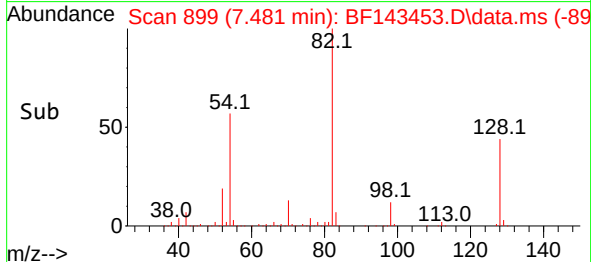
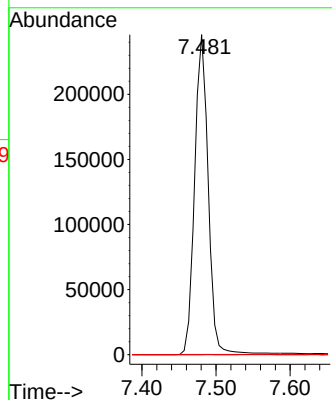
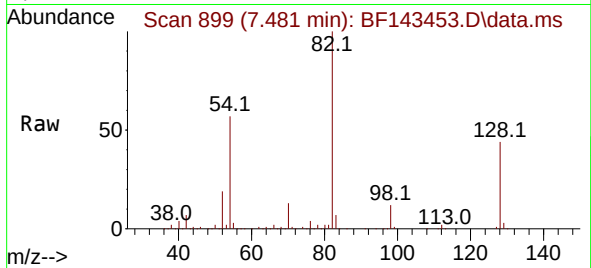




#25
Isophorone
Concen: 30.688 ng
RT: 7.481 min Scan# 899
Delta R.T. -0.265 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

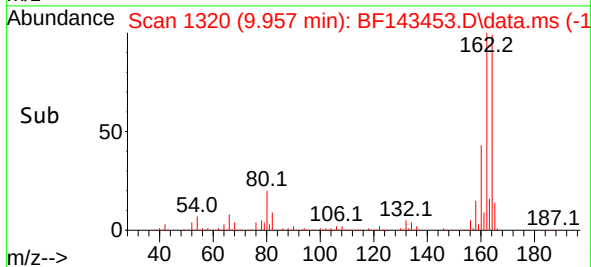
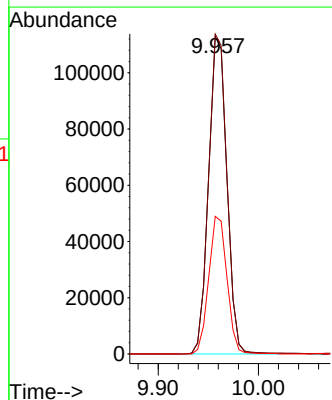
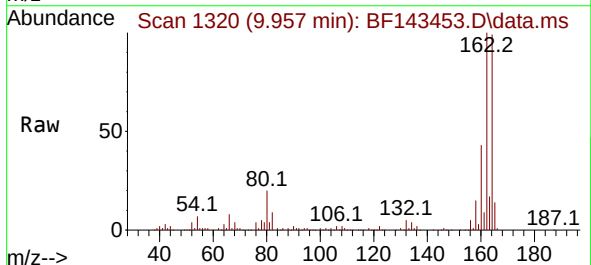
Instrument :
BNA_F
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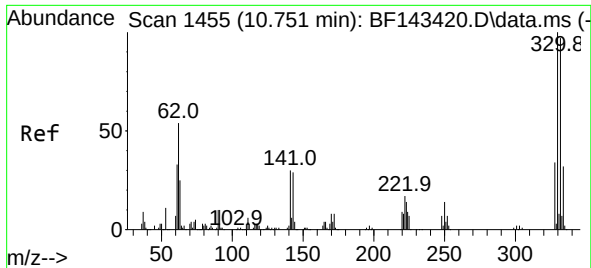
Tgt Ion: 82 Resp: 311949
Ion Ratio Lower Upper
82 100
95 0.0 5.6 8.4#
138 0.0 14.3 21.5#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

Tgt Ion:164 Resp: 143358
Ion Ratio Lower Upper
164 100
162 100.8 80.6 121.0
160 43.4 34.6 51.8

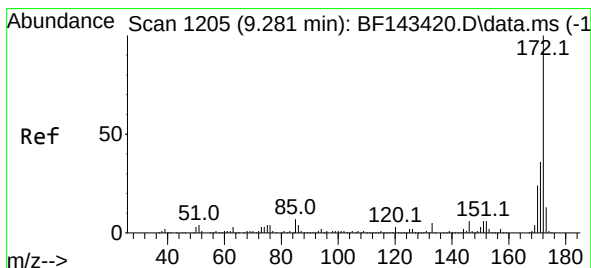
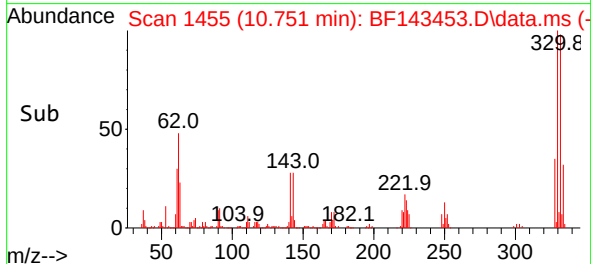
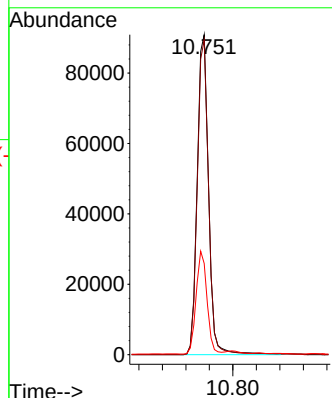
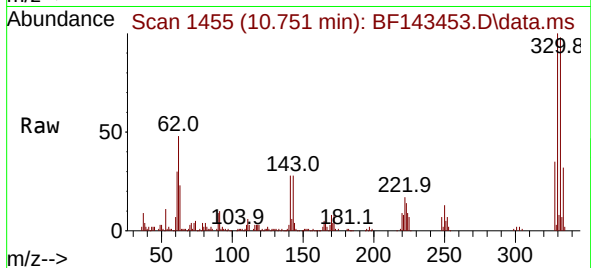




#42
2,4,6-Tribromophenol
Concen: 95.302 ng
RT: 10.751 min Scan# 1455
Delta R.T. -0.000 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

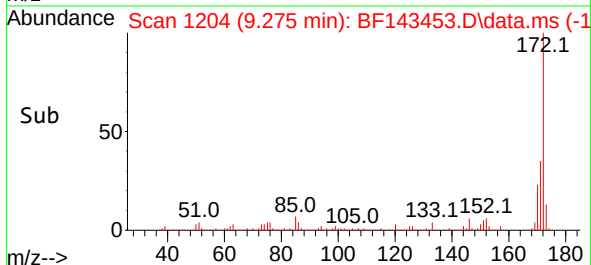
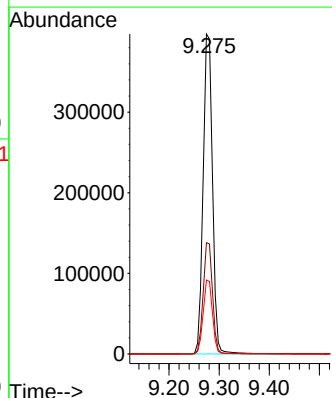
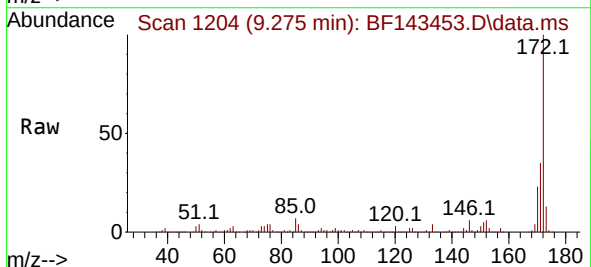
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BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425

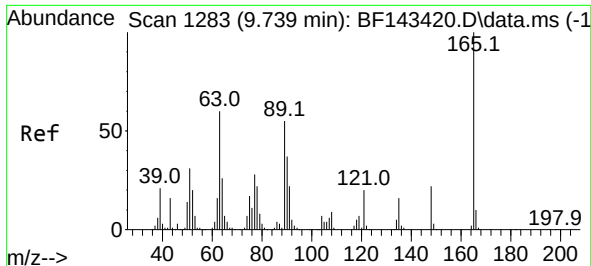
Tgt Ion:330 Resp: 121605
Ion Ratio Lower Upper
330 100
332 97.8 77.4 116.2
141 30.7 24.1 36.1



#45
2-Fluorobiphenyl
Concen: 60.571 ng
RT: 9.275 min Scan# 1204
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

Tgt Ion:172 Resp: 516255
Ion Ratio Lower Upper
172 100
171 34.8 28.7 43.1
170 23.1 19.0 28.6

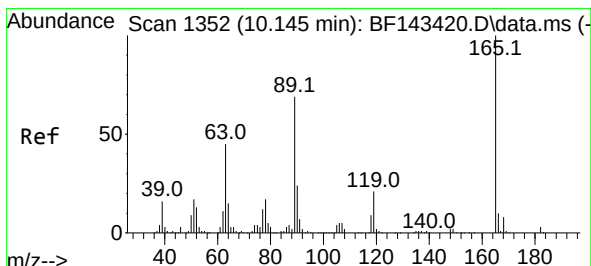
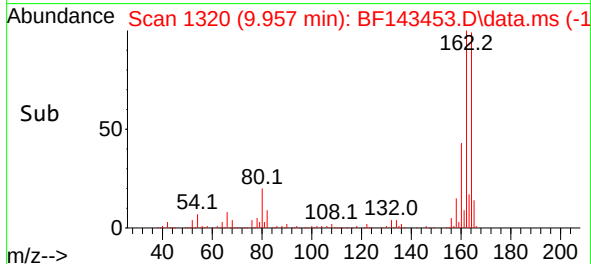
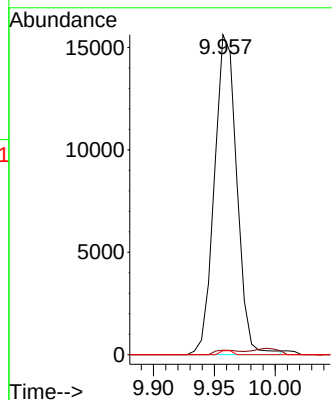
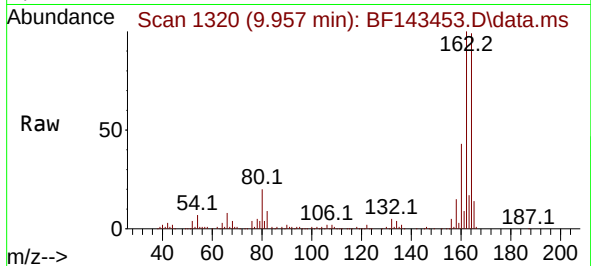




#51
2,6-Dinitrotoluene
Concen: 11.374 ng
RT: 9.957 min Scan# 11
Delta R.T. 0.218 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

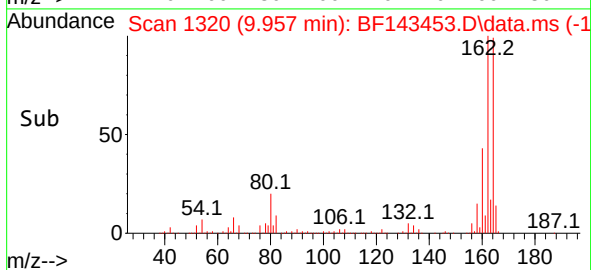
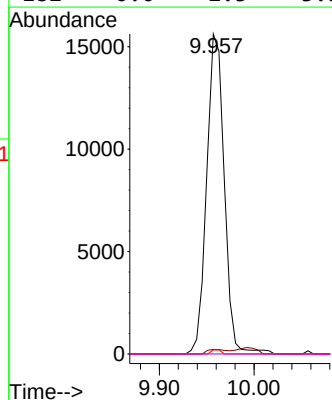
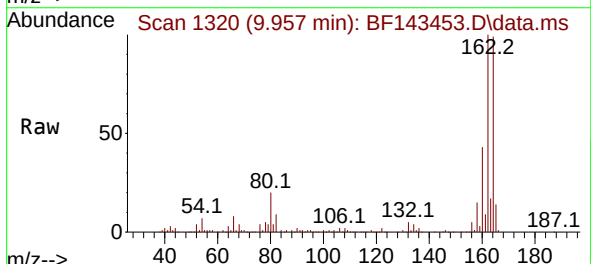
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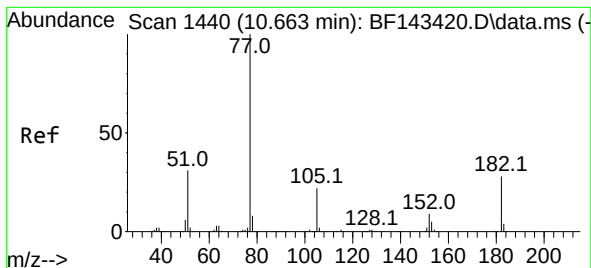
Tgt Ion:165 Resp: 20039
Ion Ratio Lower Upper
165 100
63 1.4 48.2 72.2#
89 1.3 44.2 66.2#



#57
2,4-Dinitrotoluene
Concen: 8.582 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.188 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

Tgt Ion:165 Resp: 20160
Ion Ratio Lower Upper
165 100
63 1.4 37.0 55.6#
89 1.3 55.4 83.0#
182 0.0 2.3 3.5#





#63

Azobenzene

Concen: 3.826 ng

RT: 10.669 min Scan# 1440

Delta R.T. 0.006 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

Tgt Ion: 77 Resp: 31936

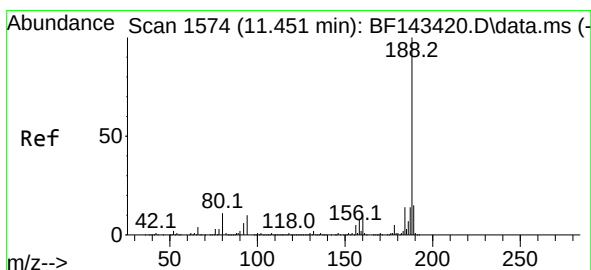
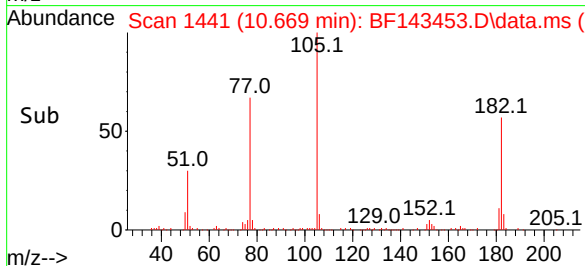
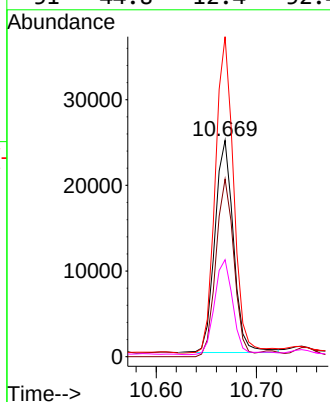
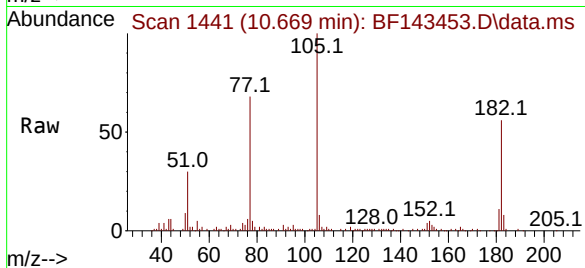
Ion Ratio Lower Upper

77 100

182 82.1 7.4 47.4#

105 148.0 1.7 41.7#

51 44.8 12.4 52.4



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.445 min Scan# 1573

Delta R.T. -0.006 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

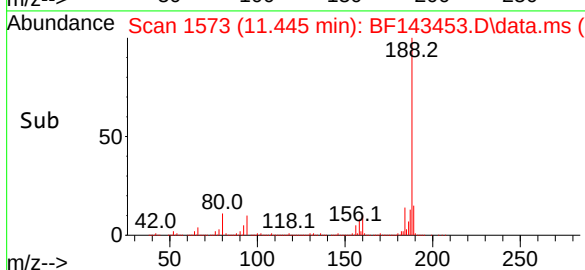
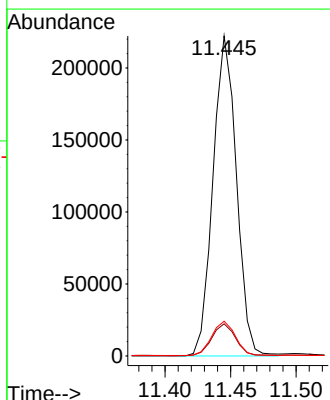
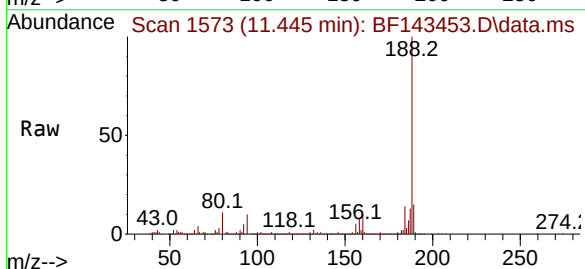
Tgt Ion: 188 Resp: 276131

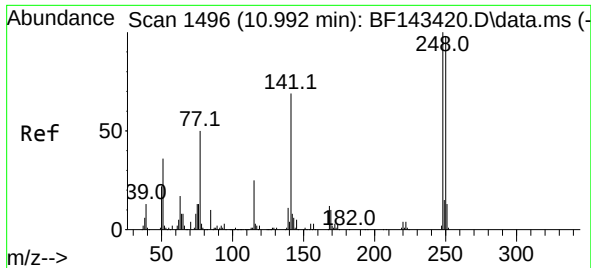
Ion Ratio Lower Upper

188 100

94 10.1 8.0 12.0

80 10.8 8.6 12.8

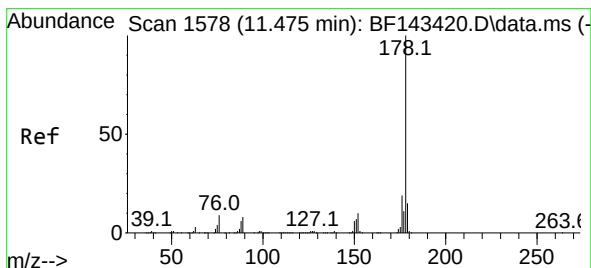
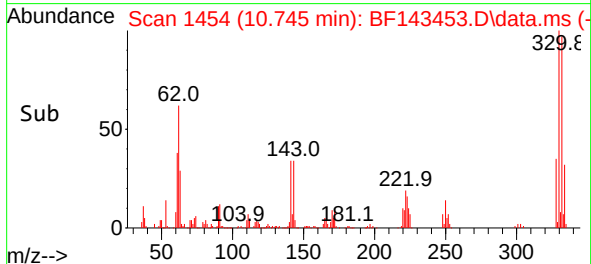
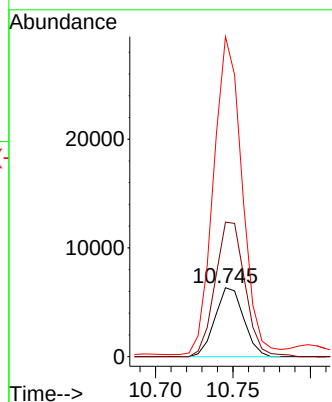
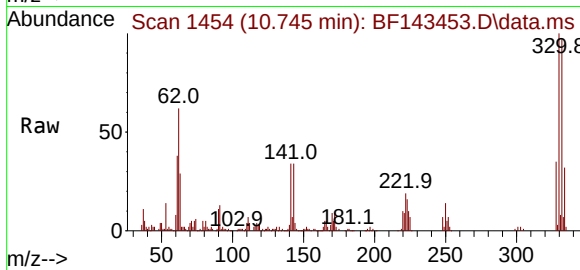




#67
4-Bromophenyl-phenylether
Concen: 2.505 ng
RT: 10.745 min Scan# 1496
Delta R.T. -0.247 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

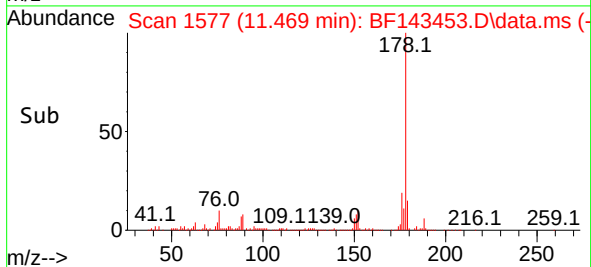
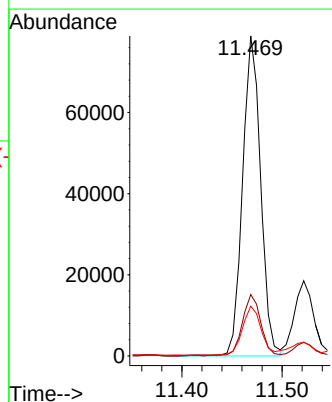
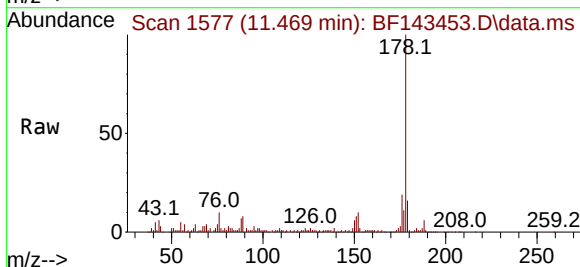
Instrument :
BNA_F
ClientSampleId :
OU4-TS-GRILLO-TSCP05-081425

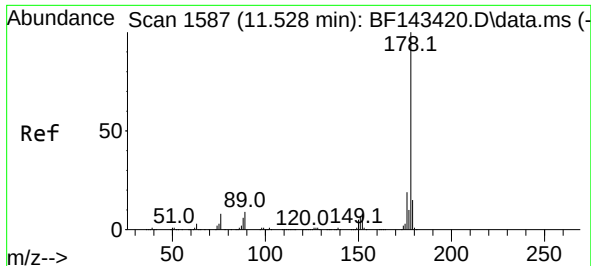
Tgt Ion:248 Resp: 8169
Ion Ratio Lower Upper
248 100
250 195.2 78.6 118.0#
141 464.3 54.9 82.3#



#71
Phenanthrene
Concen: 6.610 ng
RT: 11.469 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF143453.D
Acq: 19 Aug 2025 13:30

Tgt Ion:178 Resp: 98842
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.6 12.3 18.5

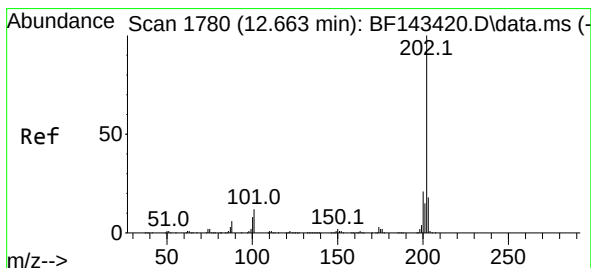
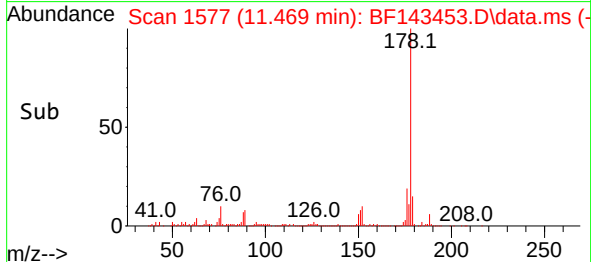
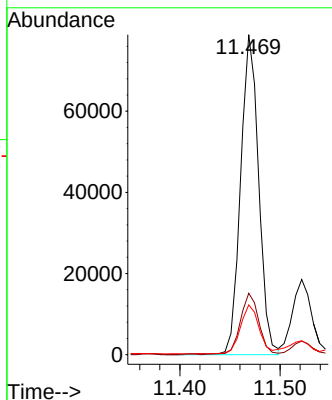
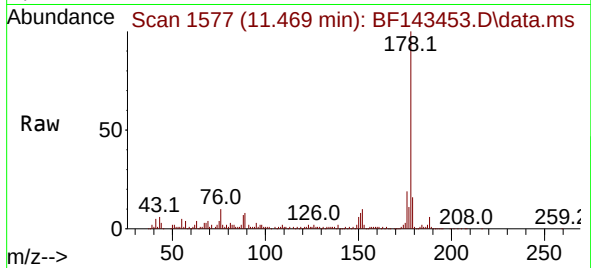




#72
 Anthracene
 Concen: 6.545 ng
 RT: 11.469 min Scan# 11
 Delta R.T. -0.059 min
 Lab File: BF143453.D
 Acq: 19 Aug 2025 13:30

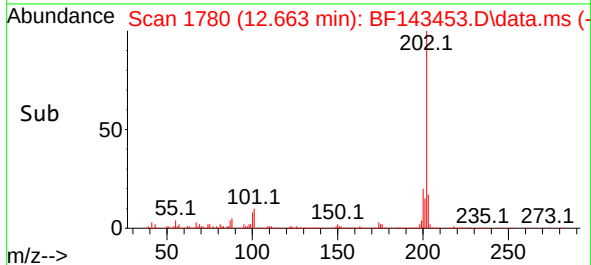
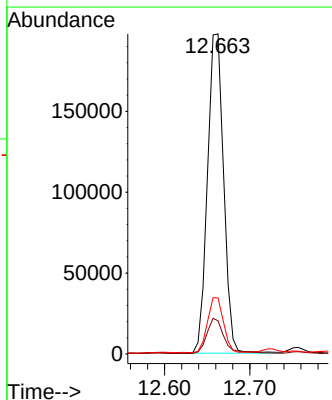
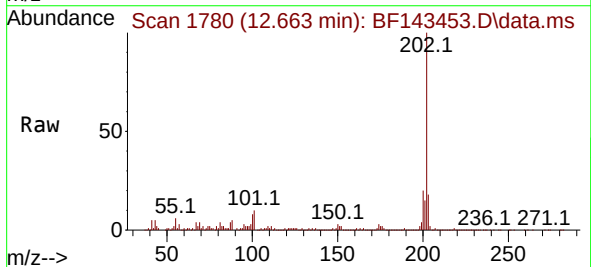
Instrument :
 BNA_F
 ClientSampleId :
 OU4-TS-GRILLO-TSCP05-081425

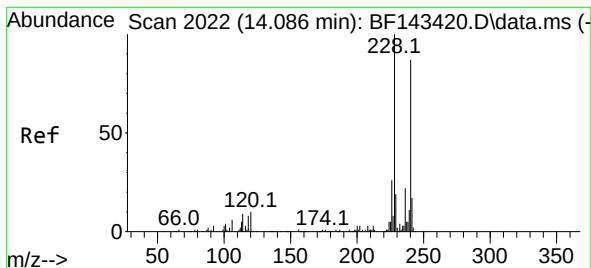
Tgt Ion:	178	Resp:	98842
Ion Ratio	Lower	Upper	
178	100		
176	19.2	14.8	22.2
179	15.6	12.2	18.4



#75
 Fluoranthene
 Concen: 19.595 ng
 RT: 12.663 min Scan# 1780
 Delta R.T. -0.000 min
 Lab File: BF143453.D
 Acq: 19 Aug 2025 13:30

Tgt Ion:	202	Resp:	260342
Ion Ratio	Lower	Upper	
202	100		
101	10.4	0.0	31.5
203	17.5	0.0	37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.086 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

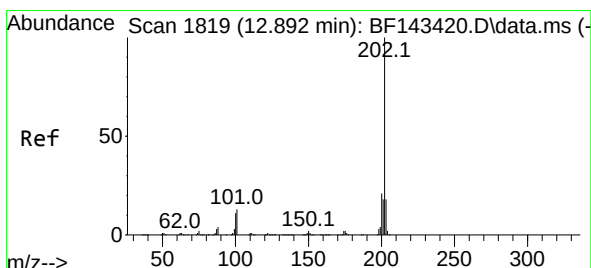
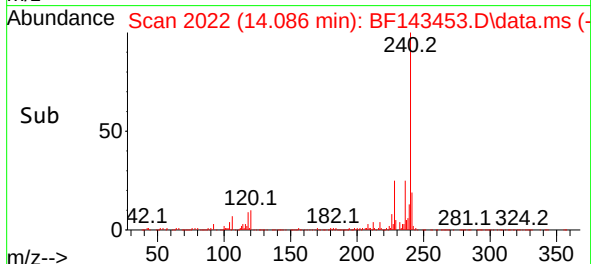
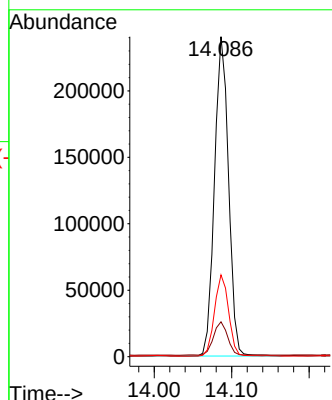
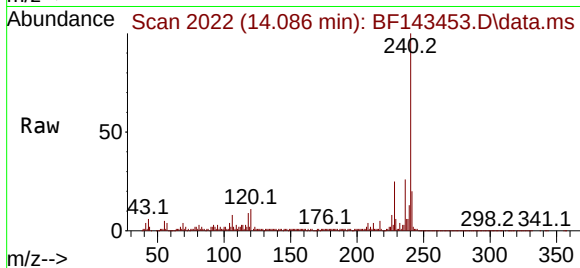
Tgt Ion:240 Resp: 302358

Ion Ratio Lower Upper

240 100

120 10.9 9.0 13.4

236 25.6 20.2 30.2



#78

Pyrene

Concen: 8.825 ng

RT: 12.892 min Scan# 1819

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

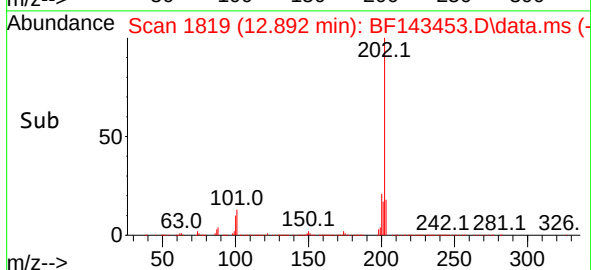
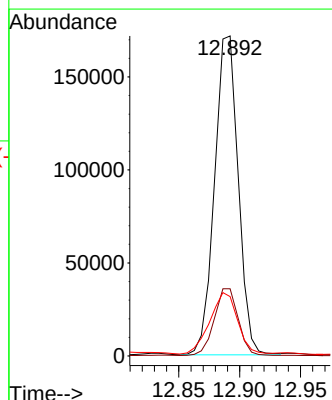
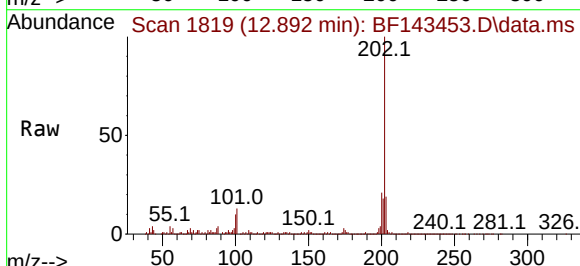
Tgt Ion:202 Resp: 231916

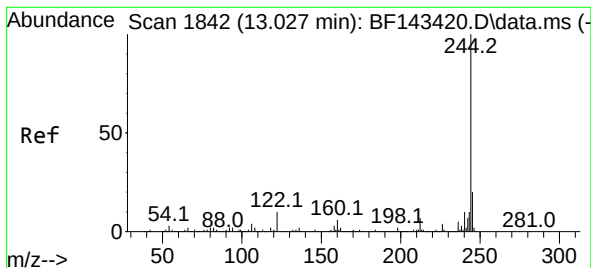
Ion Ratio Lower Upper

202 100

200 21.0 17.1 25.7

203 18.5 14.2 21.2





#79

Terphenyl-d14

Concen: 41.921 ng

RT: 13.027 min Scan# 1842

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

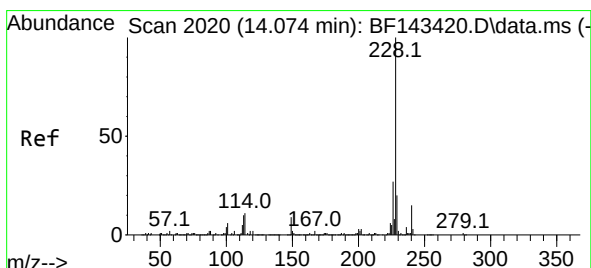
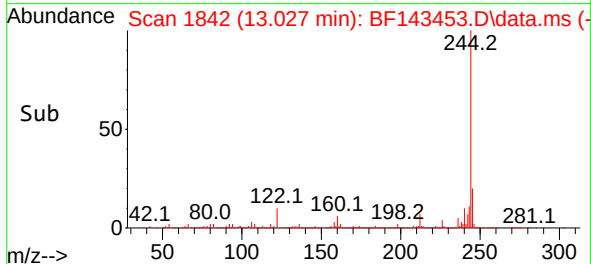
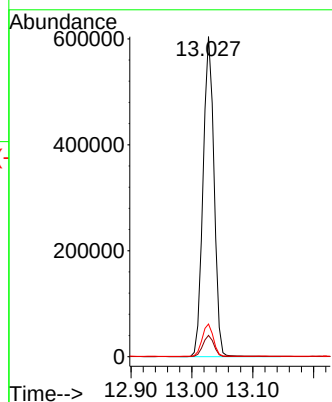
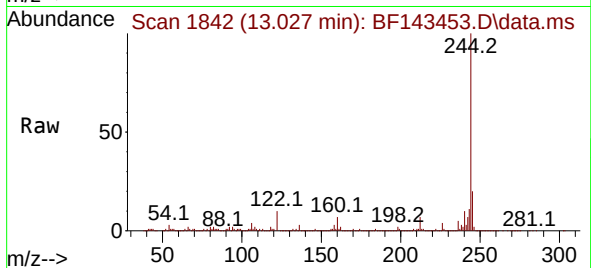
Tgt Ion:244 Resp: 754533

Ion Ratio Lower Upper

244 100

212 6.6 5.2 7.8

122 10.2 8.3 12.5



#81

Benzo(a)anthracene

Concen: 7.137 ng

RT: 14.074 min Scan# 2020

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

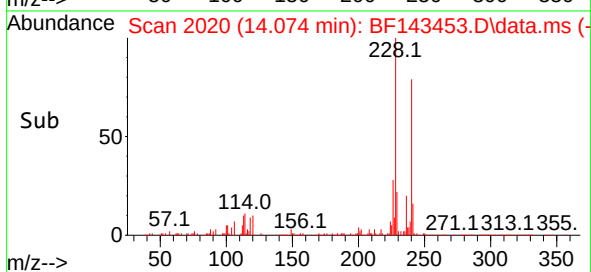
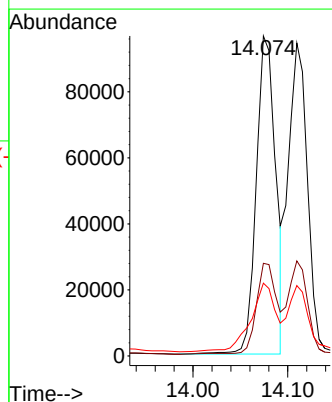
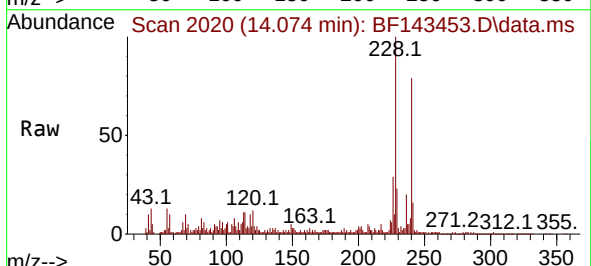
Tgt Ion:228 Resp: 137384

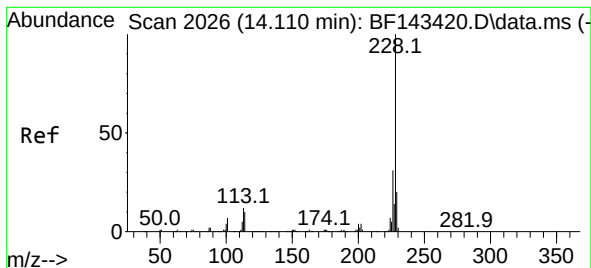
Ion Ratio Lower Upper

228 100

226 28.9 21.5 32.3

229 22.8 15.7 23.5





#83

Chrysene

Concen: 7.342 ng

RT: 14.110 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

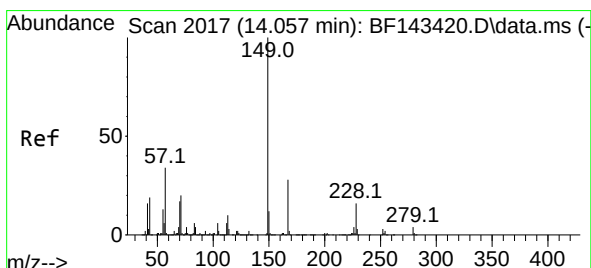
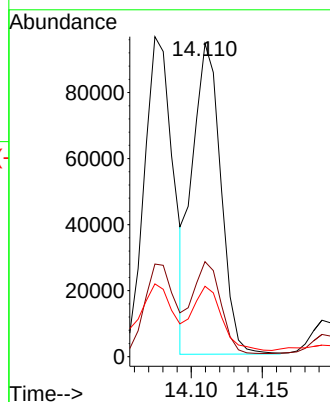
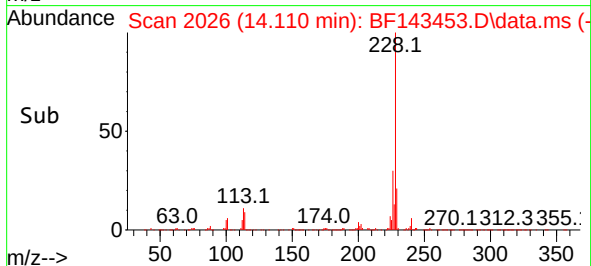
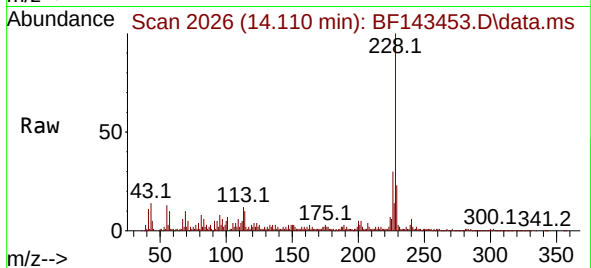
Tgt Ion:228 Resp: 130659

Ion Ratio Lower Upper

228 100

226 30.4 24.3 36.5

229 22.5 16.1 24.1



#84

Bis(2-ethylhexyl)phthalate

Concen: 2.390 ng

RT: 14.057 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

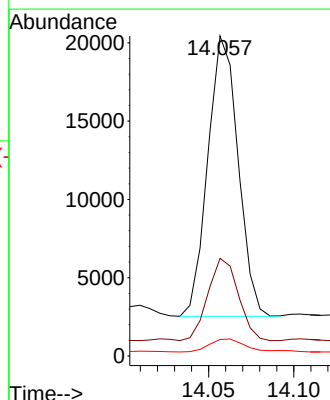
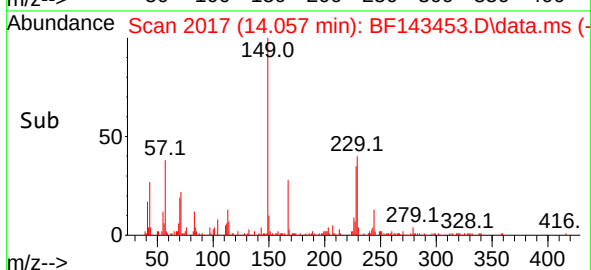
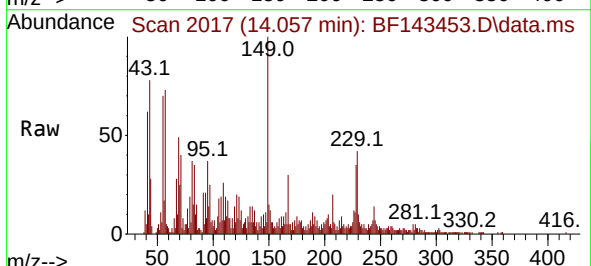
Tgt Ion:149 Resp: 22096

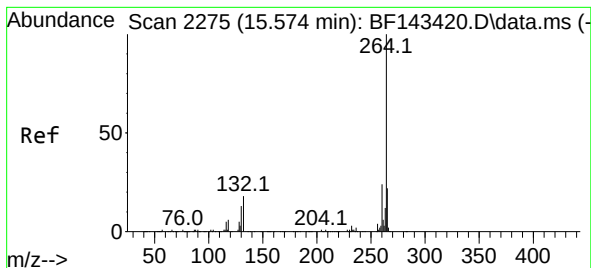
Ion Ratio Lower Upper

149 100

167 30.5 22.6 33.8

279 5.2 3.5 5.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.580 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

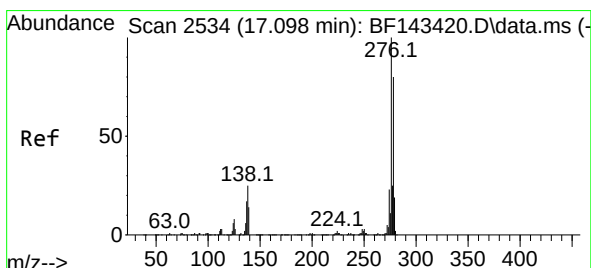
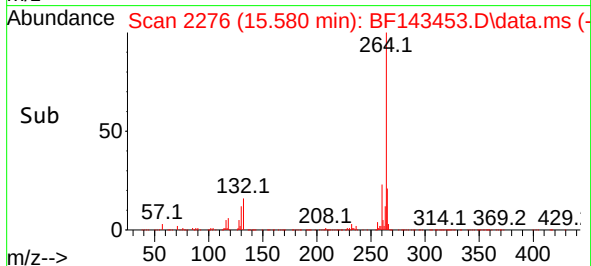
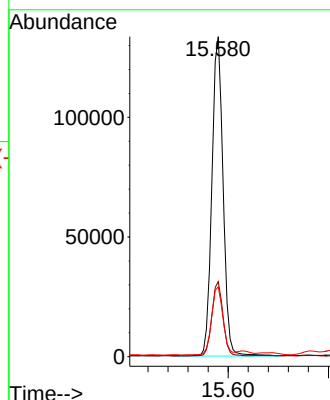
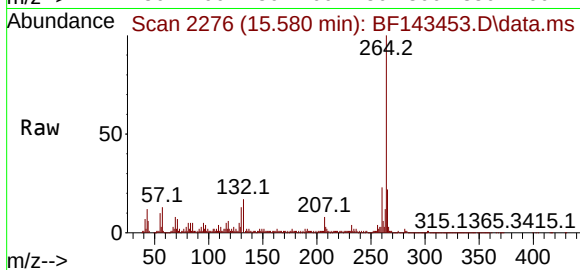
Tgt Ion:264 Resp: 207438

Ion Ratio Lower Upper

264 100

260 23.5 18.8 28.2

265 21.8 17.4 26.0



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.488 ng

RT: 17.098 min Scan# 2534

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

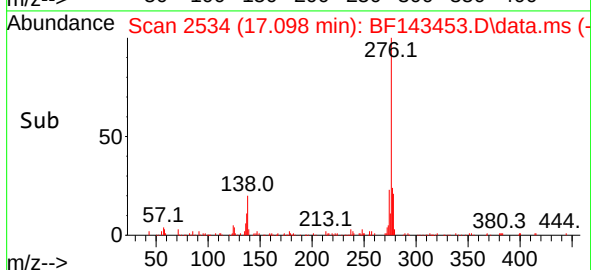
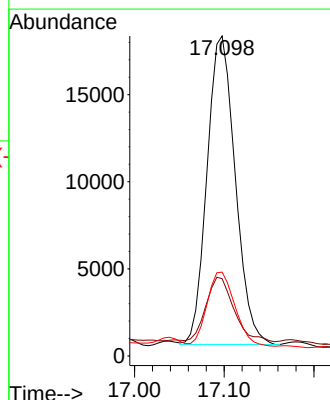
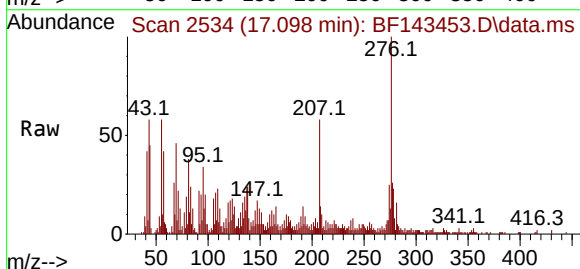
Tgt Ion:276 Resp: 38698

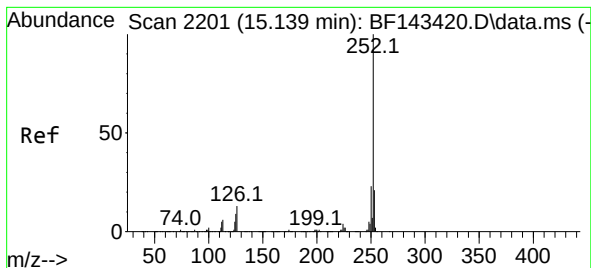
Ion Ratio Lower Upper

276 100

138 21.1 20.2 30.4

277 23.9 20.2 30.2





#88

Benzo(b)fluoranthene

Concen: 14.898 ng

RT: 15.139 min Scan# 2201

Delta R.T. -0.000 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

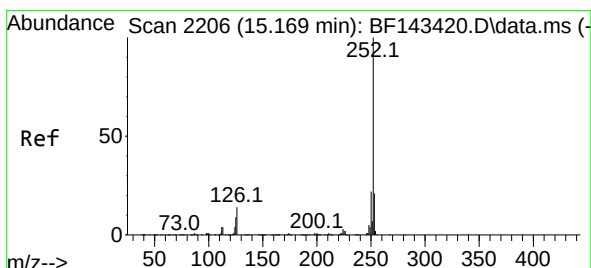
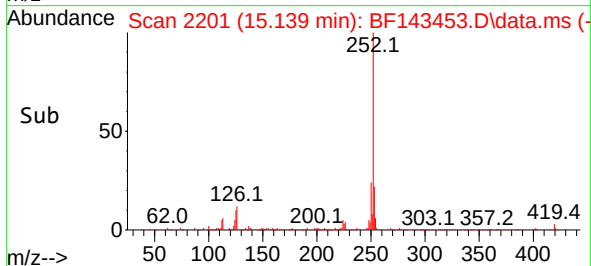
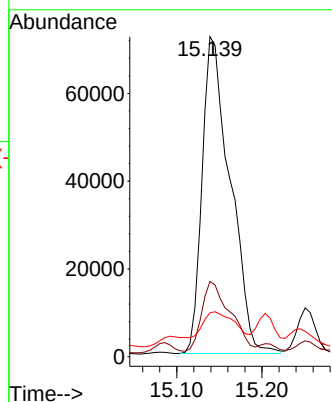
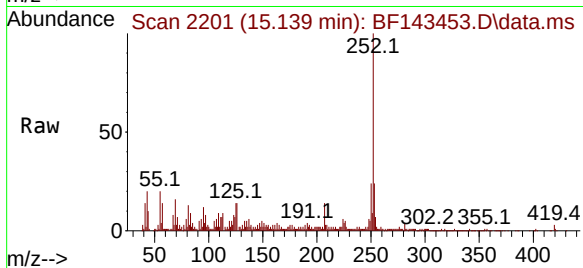
Tgt Ion:252 Resp: 165633

Ion Ratio Lower Upper

252 100

253 23.5 17.1 25.7

125 13.7 7.5 11.3#



#89

Benzo(k)fluoranthene

Concen: 15.105 ng

RT: 15.139 min Scan# 2201

Delta R.T. -0.030 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

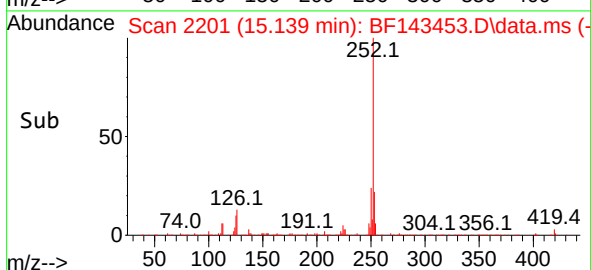
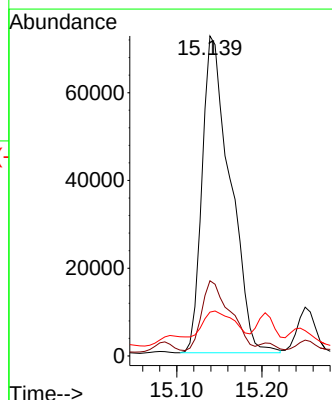
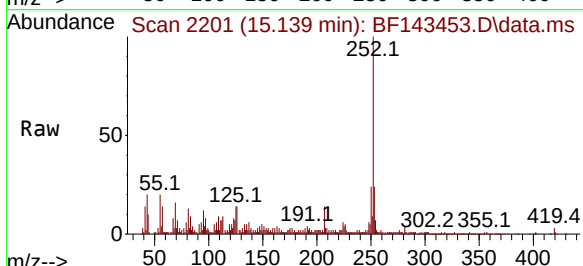
Tgt Ion:252 Resp: 165633

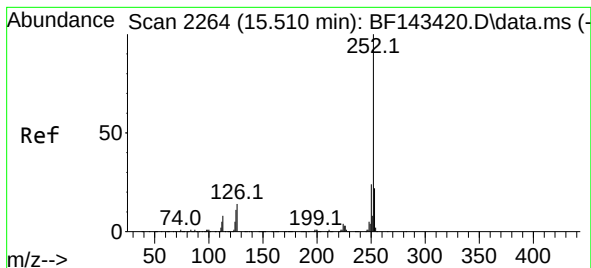
Ion Ratio Lower Upper

252 100

253 23.5 17.2 25.8

125 13.7 7.4 11.2#





#90

Benzo(a)pyrene

Concen: 6.758 ng

RT: 15.515 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Instrument :

BNA_F

ClientSampleId :

OU4-TS-GRILLO-TSCP05-081425

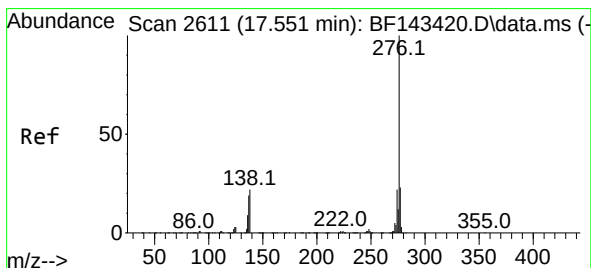
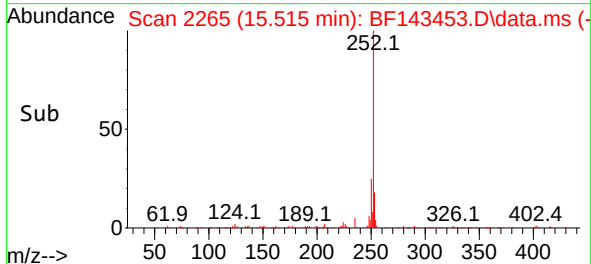
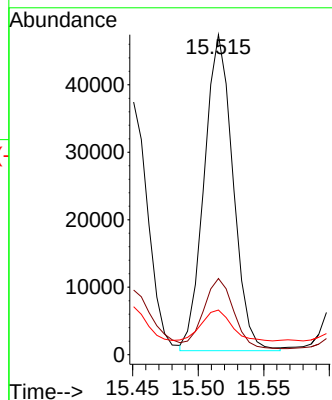
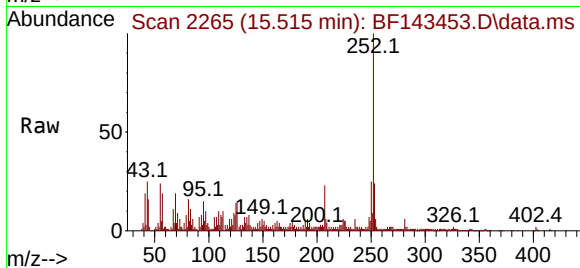
Tgt Ion:252 Resp: 71563

Ion Ratio Lower Upper

252 100

253 23.8 17.4 26.2

125 14.0 8.6 12.8#



#92

Benzo(g,h,i)perylene

Concen: 3.259 ng

RT: 17.562 min Scan# 2613

Delta R.T. 0.012 min

Lab File: BF143453.D

Acq: 19 Aug 2025 13:30

Tgt Ion:276 Resp: 40674

Ion Ratio Lower Upper

276 100

277 25.0 18.7 28.1

138 23.3 17.5 26.3

