

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062425\
 Data File : BF142831.D
 Acq On : 24 Jun 2025 21:08
 Operator : RC/JU
 Sample : Q2384-01 5X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OK-01-6202025

Quant Time: Jun 25 01:31:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jun 24 05:28:21 2025
 Response via : Initial Calibration

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

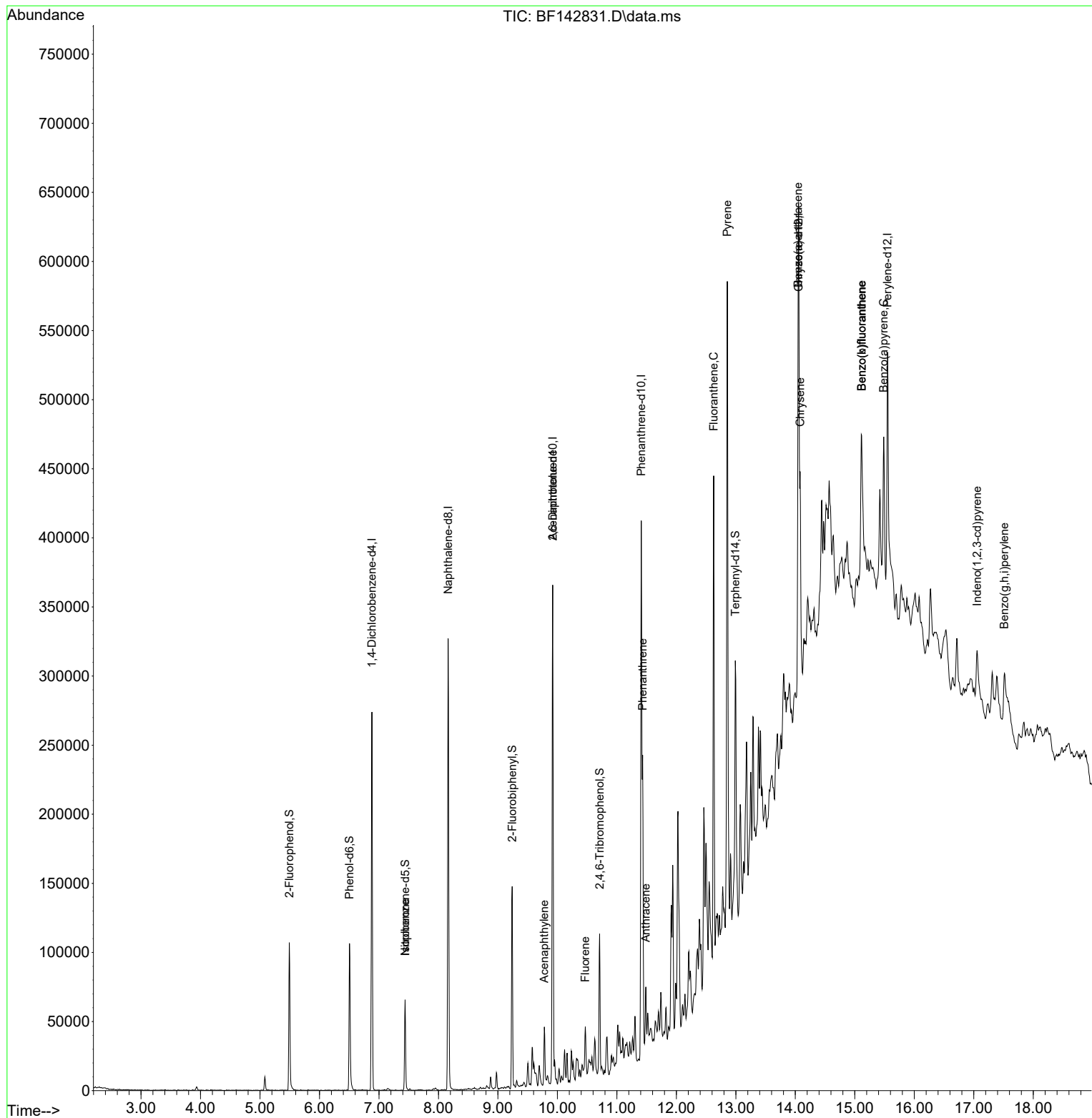
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	58569	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	208142	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	104476	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	199455	20.000	ng	0.00
76) Chrysene-d12	14.057	240	128963	20.000	ng	0.00
86) Perylene-d12	15.551	264	97400	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	44131	12.545	ng	0.00
7) Phenol-d6	6.504	99	51425	12.391	ng	0.00
23) Nitrobenzene-d5	7.440	82	27603	7.274	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	14406	13.399	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	65340	8.216	ng	0.00
79) Terphenyl-d14	12.992	244	81826	8.767	ng	0.00
Target Compounds						
						Qvalue
25) Isophorone	7.440	82	27603	4.535	ng	# 62
49) Acenaphthylene	9.781	152	22201	2.178	ng	96
51) 2,6-Dinitrotoluene	9.922	165	13561	9.131	ng	# 26
58) Fluorene	10.469	166	15732	2.258	ng	# 93
71) Phenanthrene	11.433	178	112089	10.374	ng	99
72) Anthracene	11.486	178	30030	2.710	ng	98
75) Fluoranthene	12.627	202	191154	18.642	ng	100
78) Pyrene	12.857	202	266880	22.078	ng	99
81) Benzo(a)anthracene	14.045	228	94165	10.824	ng	# 92
83) Chrysene	14.080	228	84858	10.931	ng	# 95
87) Indeno(1,2,3-cd)pyrene	17.057	276	24754	3.337	ng	96
88) Benzo(b)fluoranthene	15.116	252	79963	14.188	ng	# 84
89) Benzo(k)fluoranthene	15.116	252	79963	15.165	ng	# 84
90) Benzo(a)pyrene	15.486	252	55929	10.272	ng	# 91
92) Benzo(g,h,i)perylene	17.515	276	26919	4.478	ng	# 92

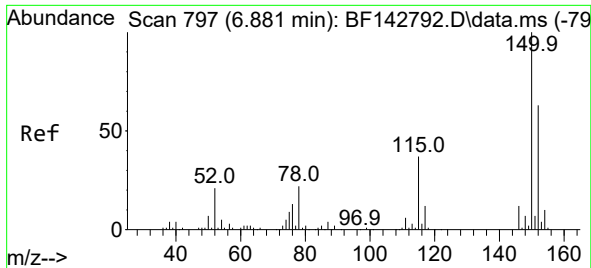
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF062425\
Data File : BF142831.D
Acq On : 24 Jun 2025 21:08
Operator : RC/JU
Sample : Q2384-01 5X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

Quant Time: Jun 25 01:31:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF061925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jun 24 05:28:21 2025
Response via : Initial Calibration

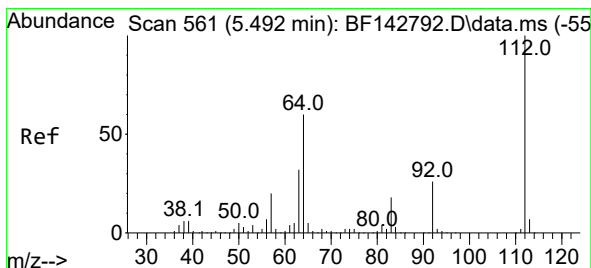
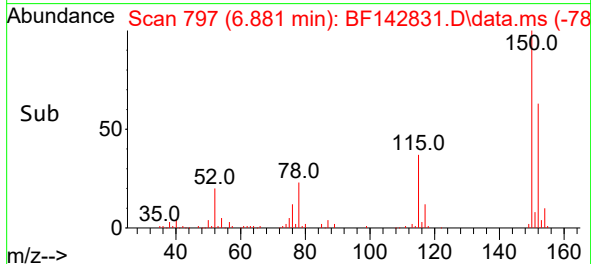
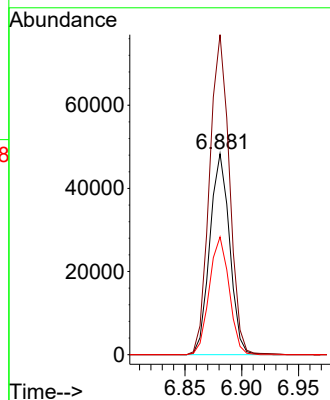
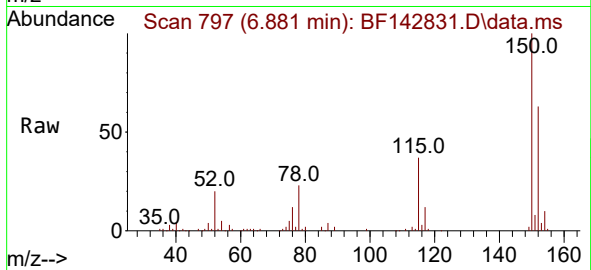




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 797
Delta R.T. -0.000 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

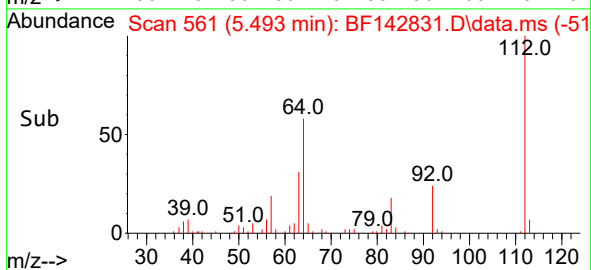
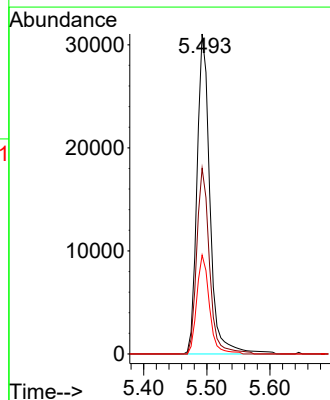
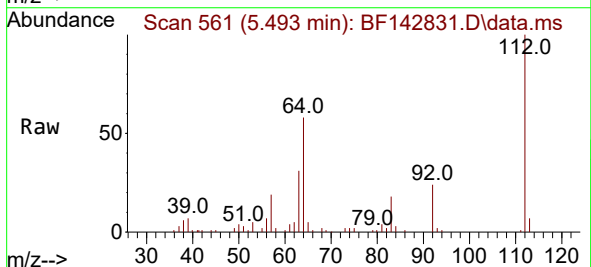
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

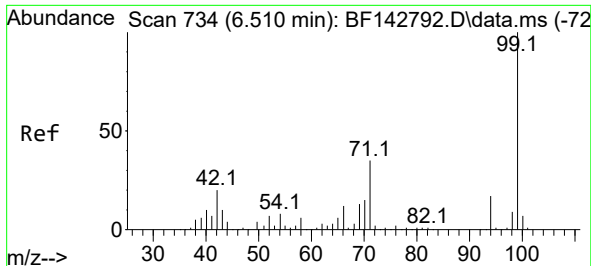
Tgt Ion:152 Resp: 58569
Ion Ratio Lower Upper
152 100
150 159.2 127.2 190.8
115 58.6 46.6 69.8



#5
2-Fluorophenol
Concen: 12.545 ng
RT: 5.493 min Scan# 561
Delta R.T. 0.001 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion:112 Resp: 44131
Ion Ratio Lower Upper
112 100
64 58.1 48.2 72.2
63 30.9 25.7 38.5

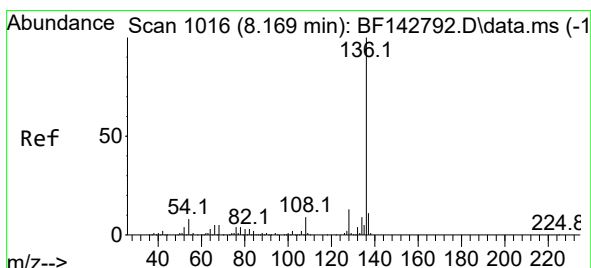
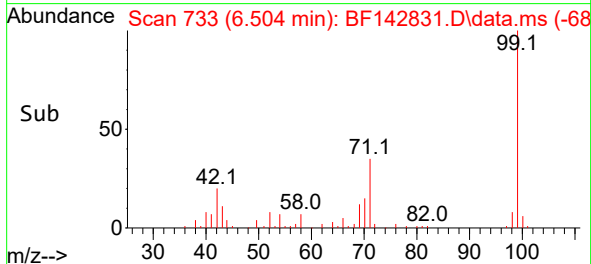
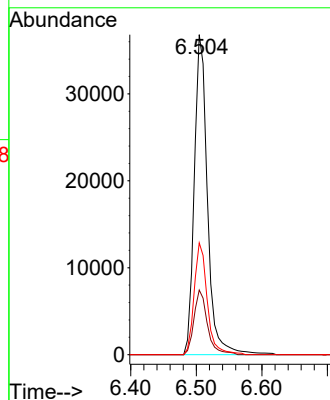
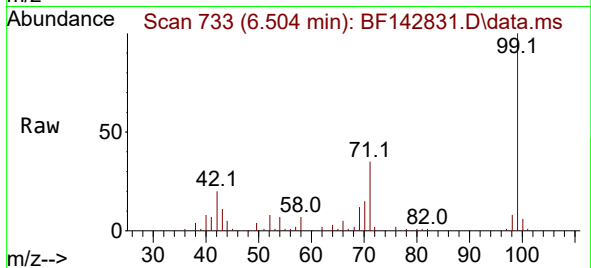




#7
Phenol-d6
Concen: 12.391 ng
RT: 6.504 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

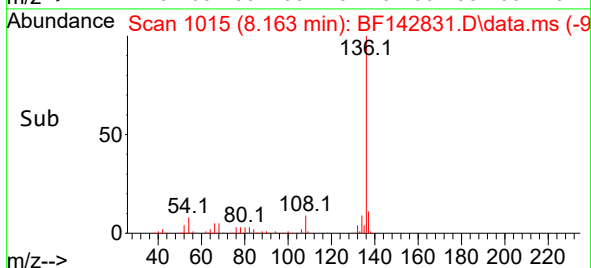
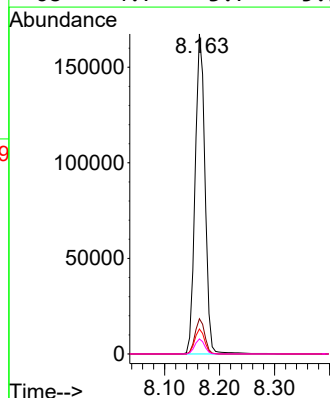
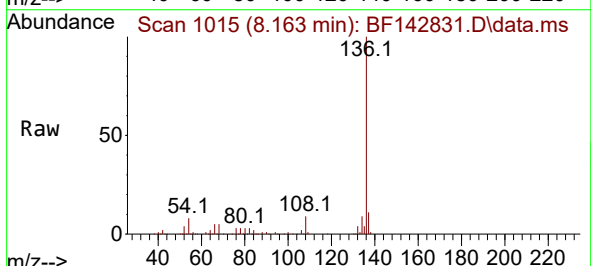
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

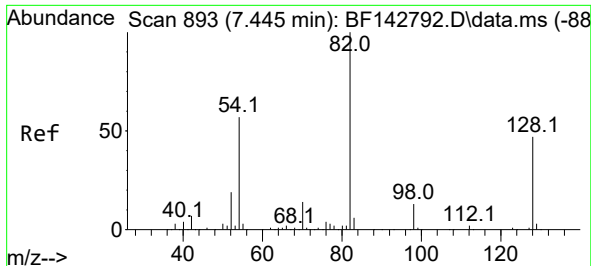
Tgt Ion: 99 Resp: 51425
Ion Ratio Lower Upper
99 100
42 20.2 15.9 23.9
71 35.0 27.8 41.8



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion: 136 Resp: 208142
Ion Ratio Lower Upper
136 100
137 11.0 8.4 12.6
54 7.8 6.3 9.5
68 4.7 3.7 5.5





#23

Nitrobenzene-d5

Concen: 7.274 ng

RT: 7.440 min Scan# 893

Delta R.T. -0.005 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

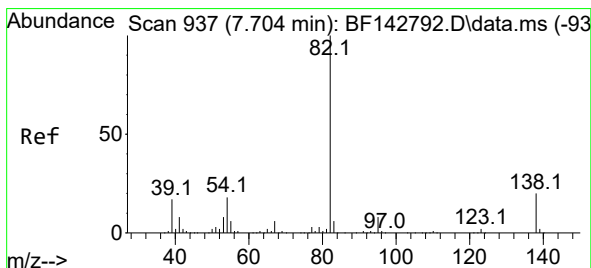
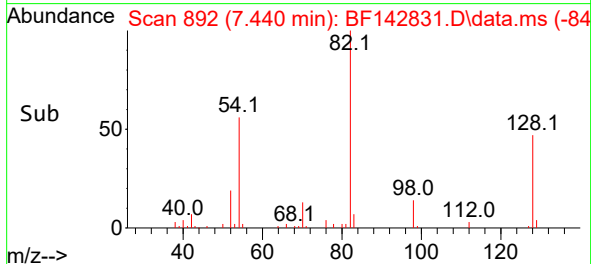
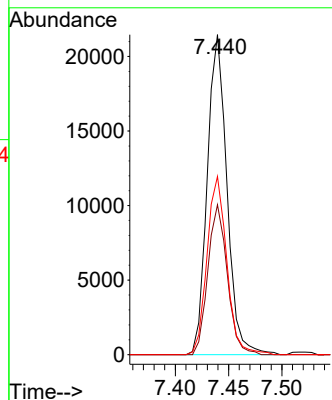
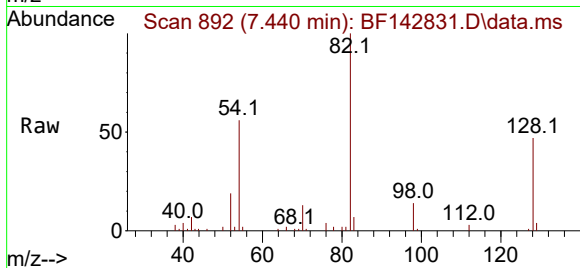
Tgt Ion: 82 Resp: 27603

Ion Ratio Lower Upper

82 100

128 46.8 37.7 56.5

54 55.7 45.7 68.5



#25

Isophorone

Concen: 4.535 ng

RT: 7.440 min Scan# 892

Delta R.T. -0.265 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

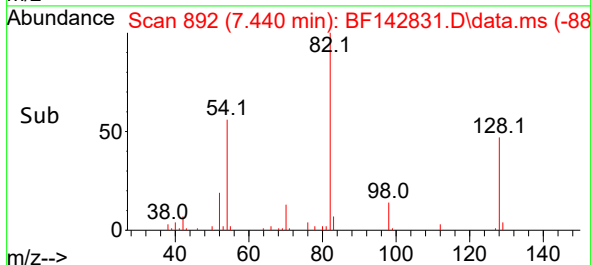
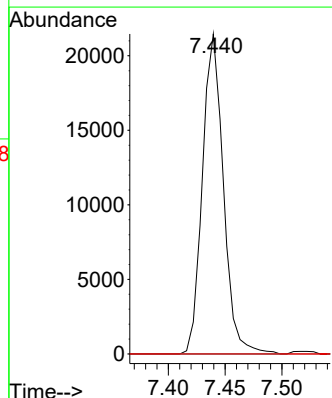
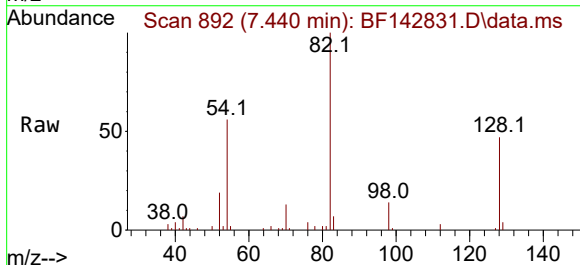
Tgt Ion: 82 Resp: 27603

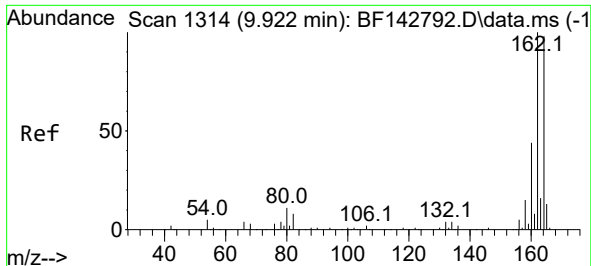
Ion Ratio Lower Upper

82 100

95 0.0 6.2 9.2#

138 0.0 16.2 24.4#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF142831.D

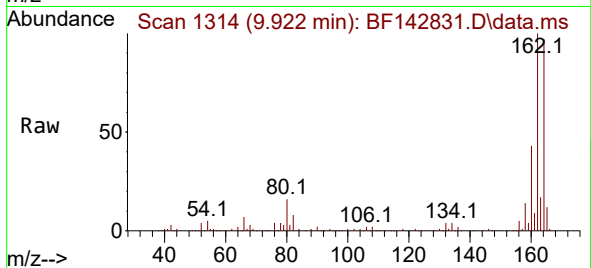
Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025



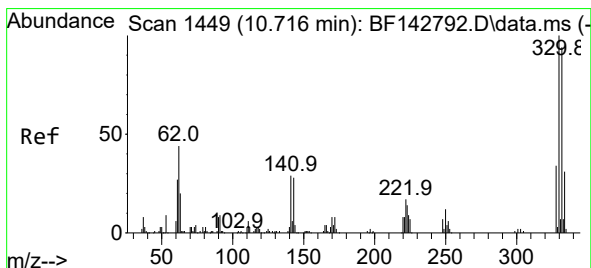
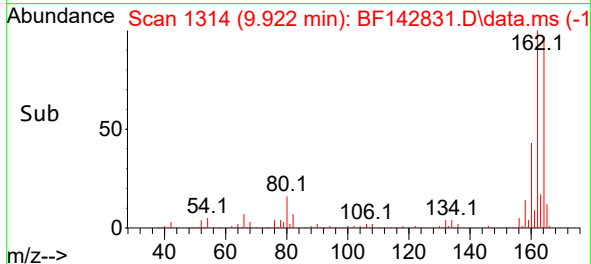
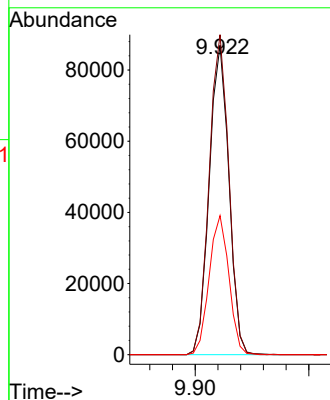
Tgt Ion:164 Resp: 104476

Ion Ratio Lower Upper

164 100

162 103.4 81.8 122.8

160 44.9 36.0 54.0



#42

2,4,6-Tribromophenol

Concen: 13.399 ng

RT: 10.710 min Scan# 1448

Delta R.T. -0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

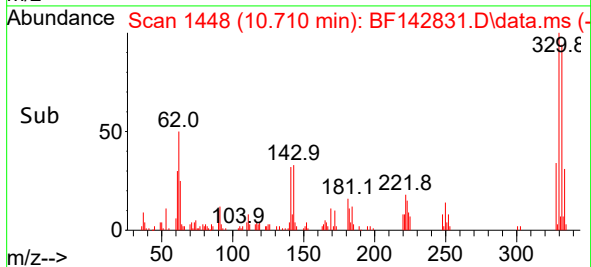
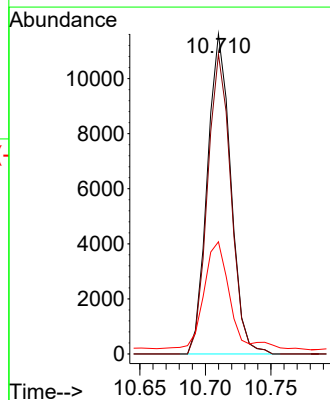
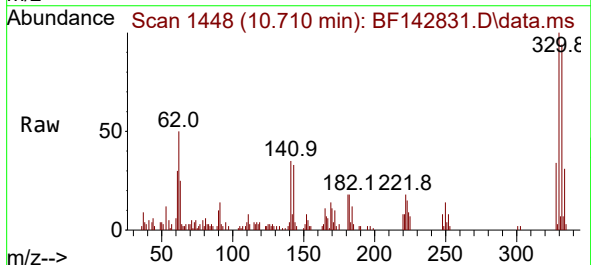
Tgt Ion:330 Resp: 14406

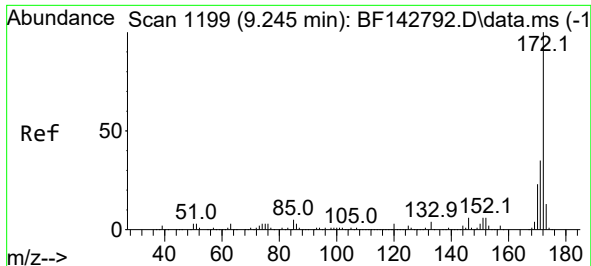
Ion Ratio Lower Upper

330 100

332 93.7 75.0 112.6

141 38.1 25.3 37.9#





#45

2-Fluorobiphenyl

Concen: 8.216 ng

RT: 9.239 min Scan# 1198

Delta R.T. -0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

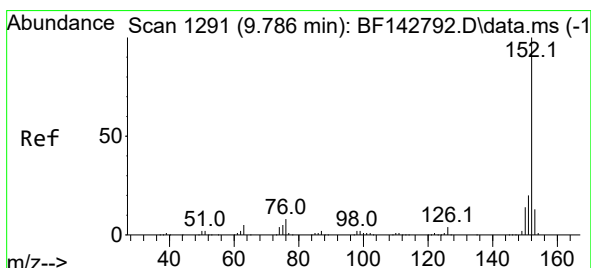
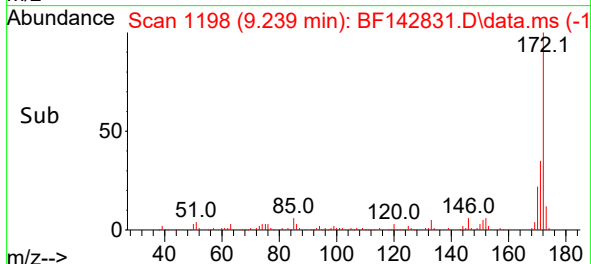
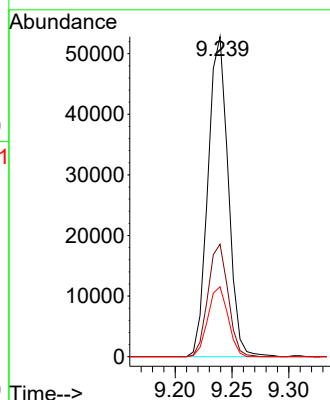
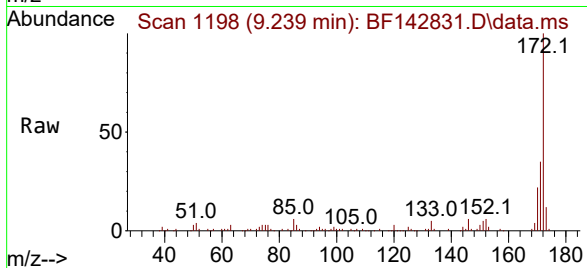
Tgt Ion:172 Resp: 65340

Ion Ratio Lower Upper

172 100

171 35.1 28.2 42.4

170 21.9 18.5 27.7



#49

Acenaphthylene

Concen: 2.178 ng

RT: 9.781 min Scan# 1290

Delta R.T. -0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

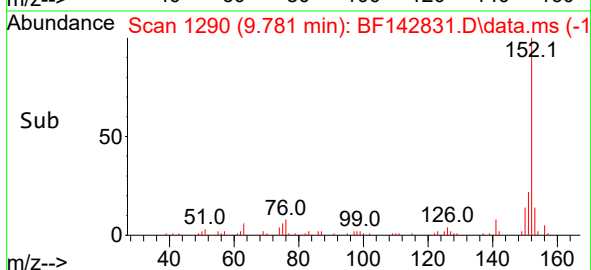
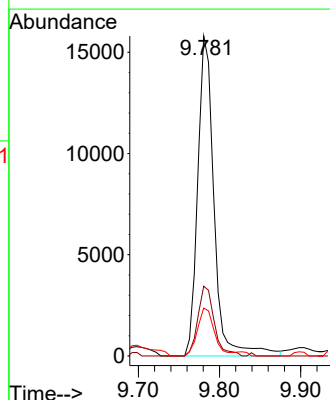
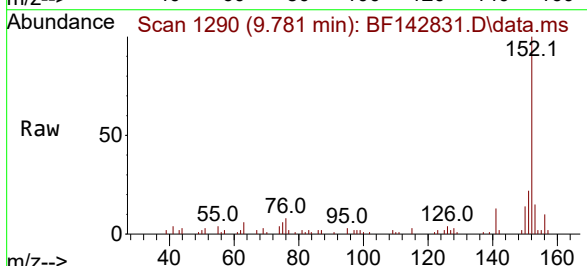
Tgt Ion:152 Resp: 22201

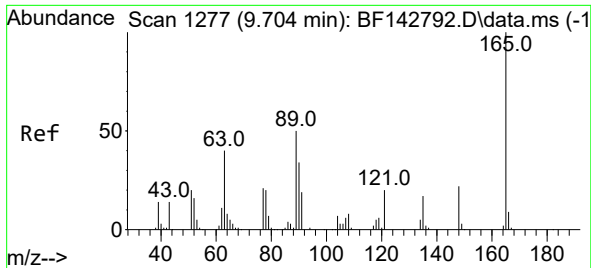
Ion Ratio Lower Upper

152 100

151 21.8 16.1 24.1

153 15.0 10.4 15.6

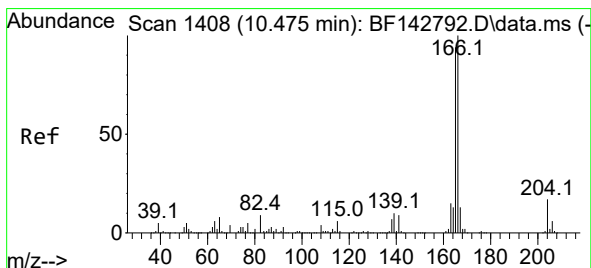
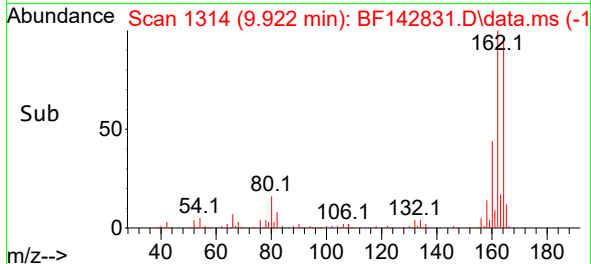
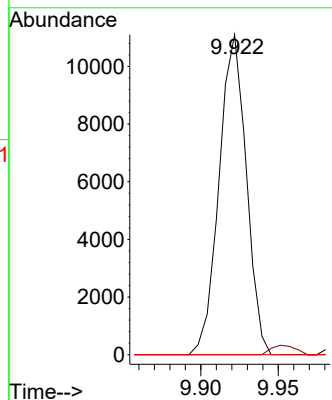
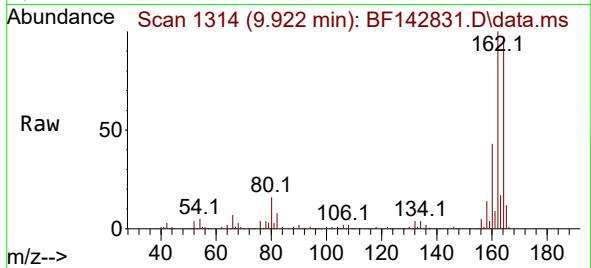




#51
2,6-Dinitrotoluene
Concen: 9.131 ng
RT: 9.922 min Scan# 11
Delta R.T. 0.218 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

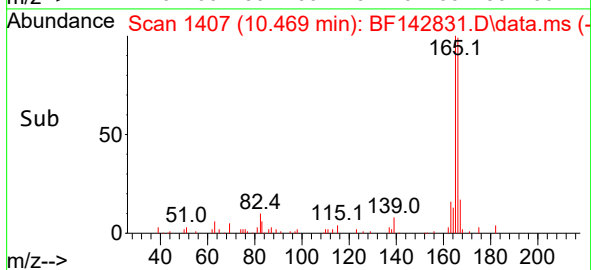
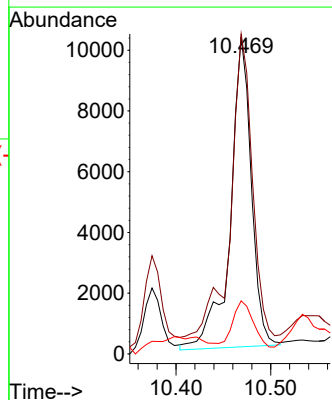
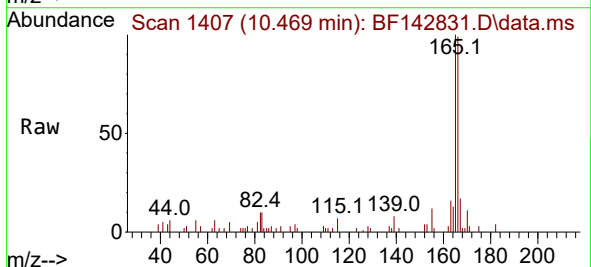
Instrument :
BNA_F
ClientSampleId :
OK-01-6202025

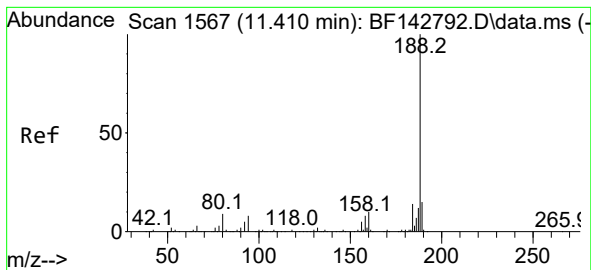
Tgt Ion:165 Resp: 13561
Ion Ratio Lower Upper
165 100
63 0.0 44.2 66.4#
89 0.0 39.8 59.8#



#58
Fluorene
Concen: 2.258 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF142831.D
Acq: 24 Jun 2025 21:08

Tgt Ion:166 Resp: 15732
Ion Ratio Lower Upper
166 100
165 100.8 75.2 112.8
167 16.7 10.6 15.8#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

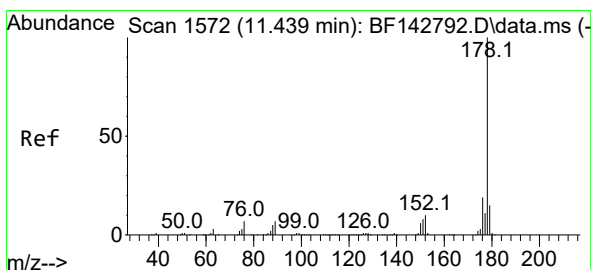
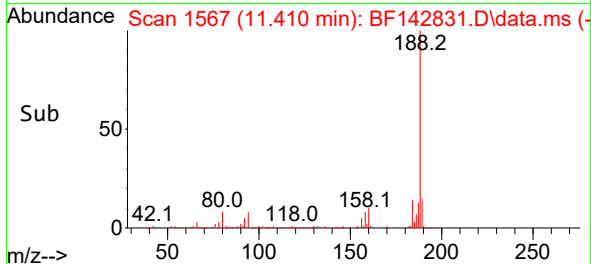
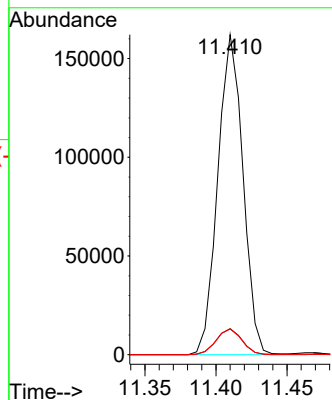
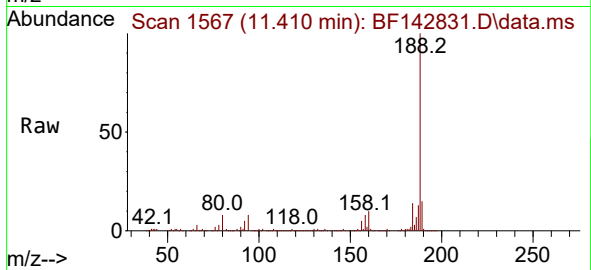
Tgt Ion:188 Resp: 199455

Ion Ratio Lower Upper

188 100

94 8.1 6.7 10.1

80 8.0 6.9 10.3



#71

Phenanthrene

Concen: 10.374 ng

RT: 11.433 min Scan# 1571

Delta R.T. -0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

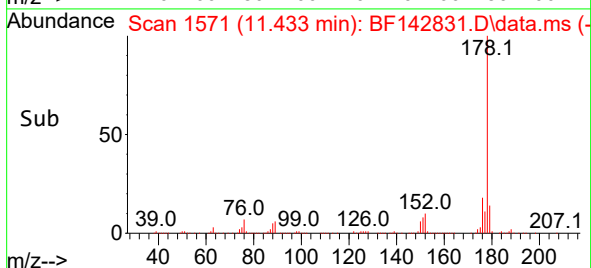
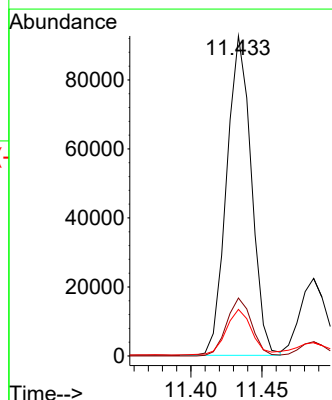
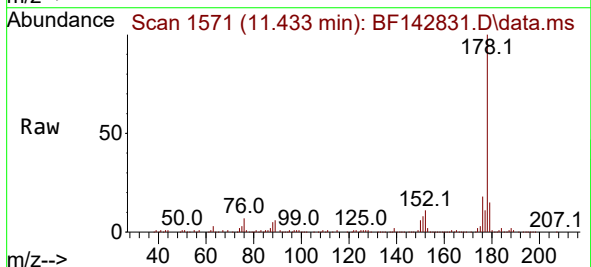
Tgt Ion:178 Resp: 112089

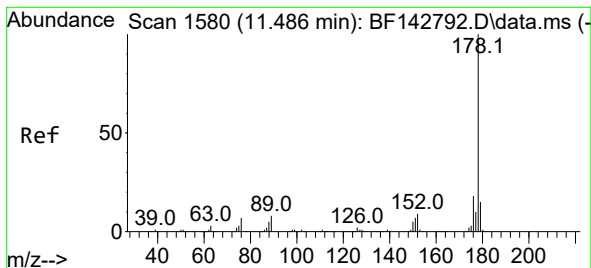
Ion Ratio Lower Upper

178 100

176 18.1 15.1 22.7

179 14.6 12.0 18.0





#72

Anthracene

Concen: 2.710 ng

RT: 11.486 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

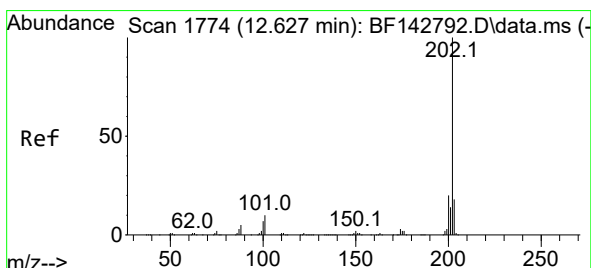
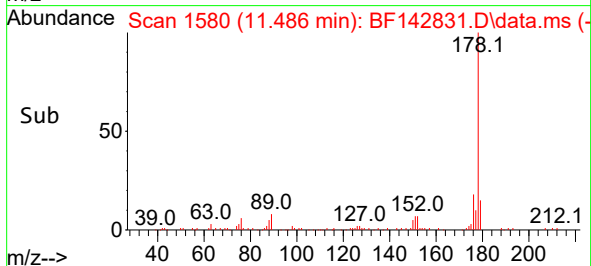
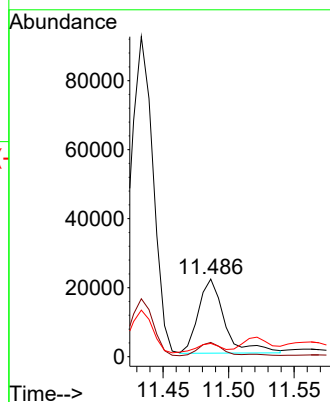
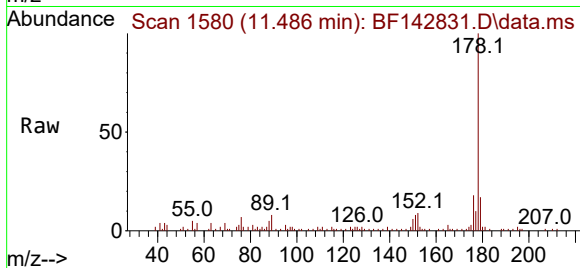
Tgt Ion:178 Resp: 30030

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

179 17.1 12.4 18.6



#75

Fluoranthene

Concen: 18.642 ng

RT: 12.627 min Scan# 1774

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

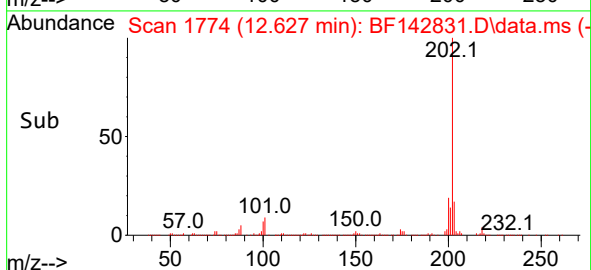
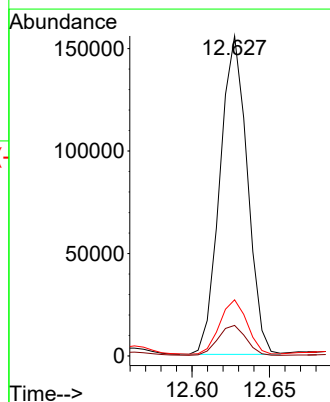
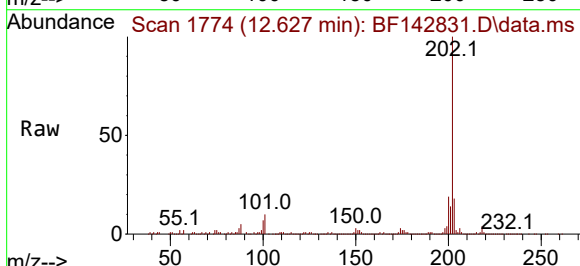
Tgt Ion:202 Resp: 191154

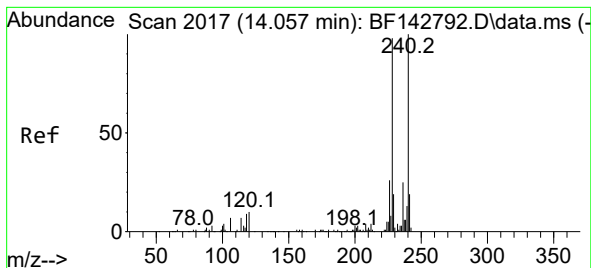
Ion Ratio Lower Upper

202 100

101 9.6 0.0 29.7

203 17.6 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

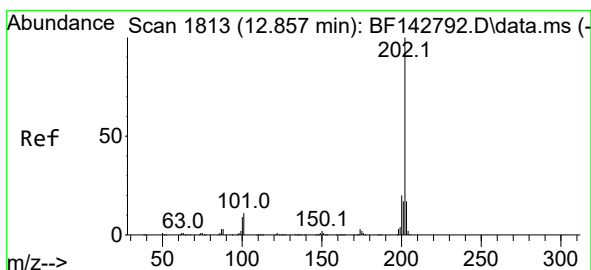
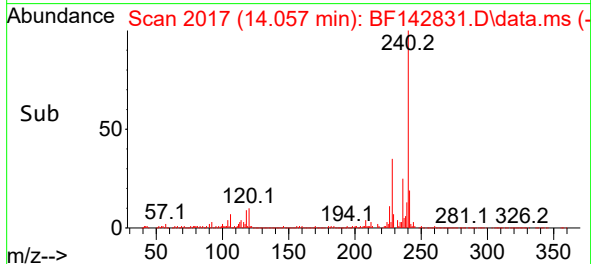
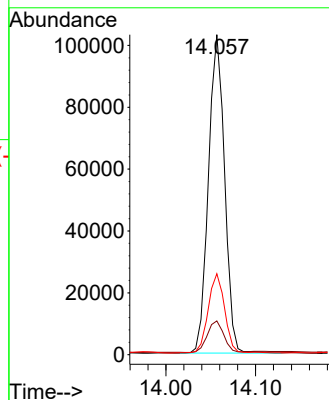
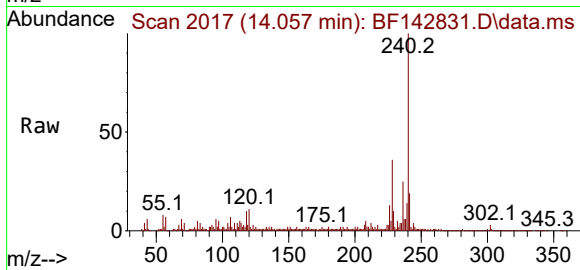
Tgt Ion:240 Resp: 128963

Ion Ratio Lower Upper

240 100

120 10.5 8.2 12.2

236 25.3 19.8 29.8



#78

Pyrene

Concen: 22.078 ng

RT: 12.857 min Scan# 1813

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

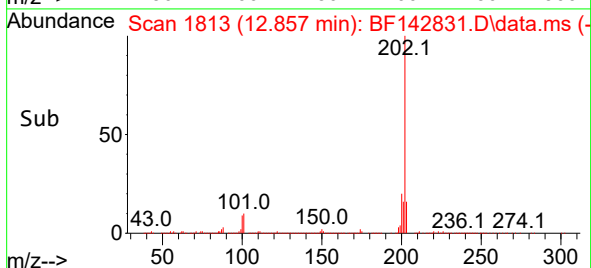
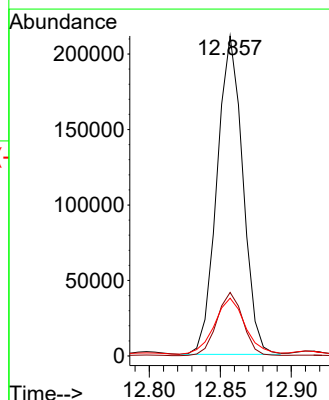
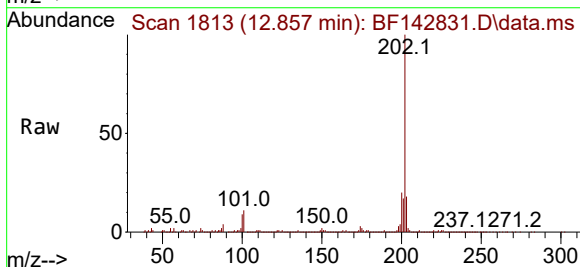
Tgt Ion:202 Resp: 266880

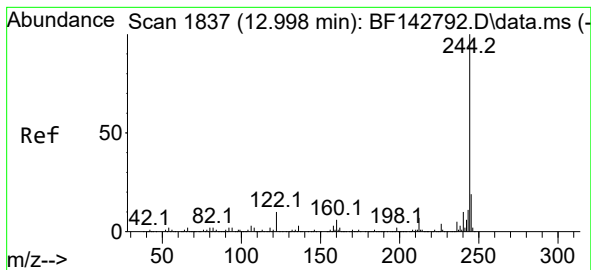
Ion Ratio Lower Upper

202 100

200 19.9 15.7 23.5

203 18.1 13.8 20.6





#79

Terphenyl-d14

Concen: 8.767 ng

RT: 12.992 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

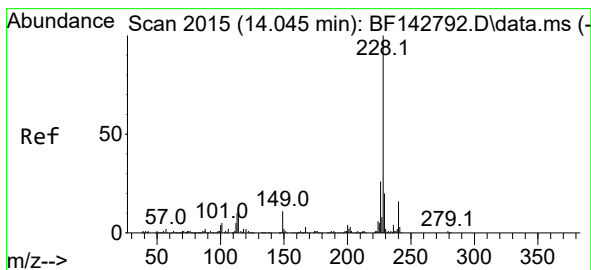
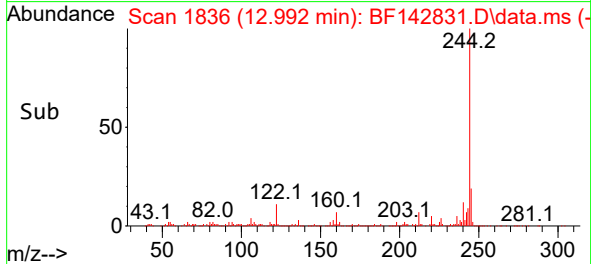
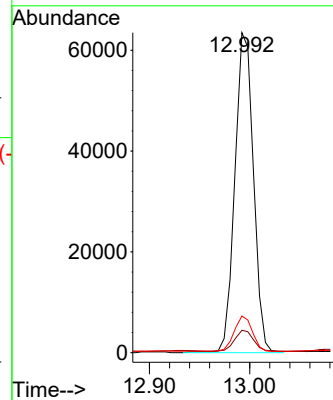
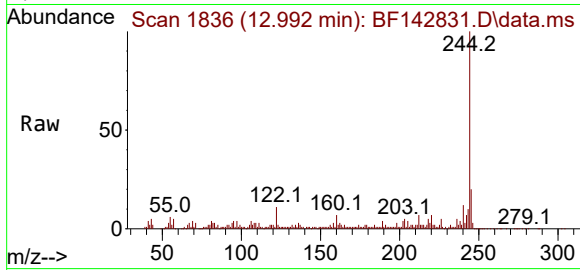
Tgt Ion:244 Resp: 81826

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

122 11.5 8.2 12.2



#81

Benzo(a)anthracene

Concen: 10.824 ng

RT: 14.045 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

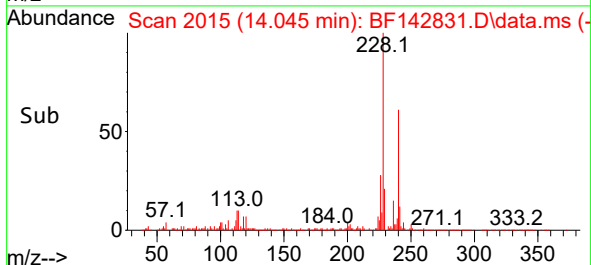
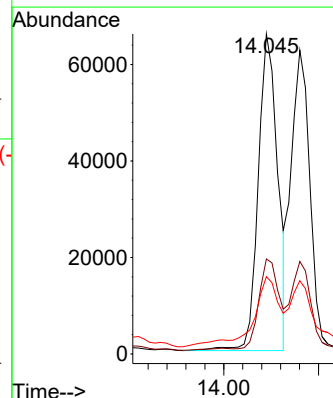
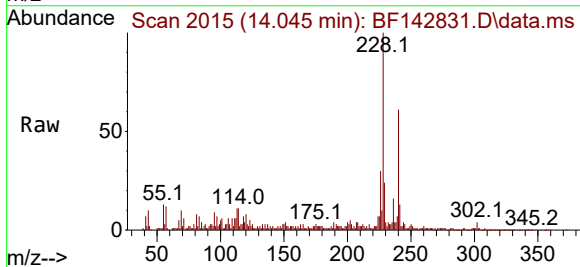
Tgt Ion:228 Resp: 94165

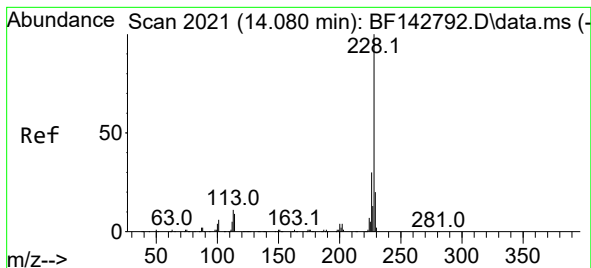
Ion Ratio Lower Upper

228 100

226 29.7 21.2 31.8

229 24.2 15.6 23.4#





#83

Chrysene

Concen: 10.931 ng

RT: 14.080 min Scan# 2021

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

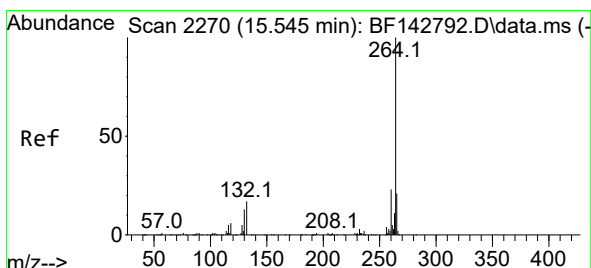
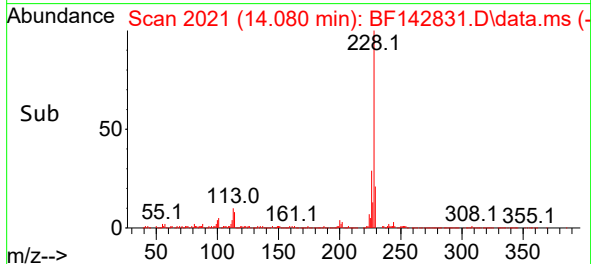
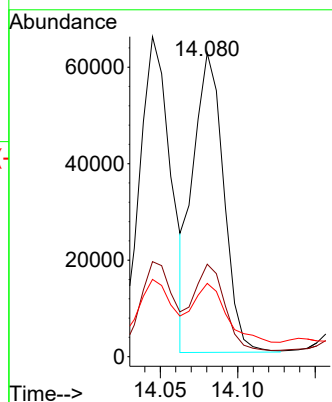
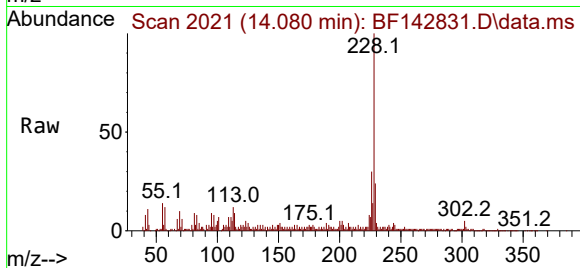
Tgt Ion:228 Resp: 84858

Ion Ratio Lower Upper

228 100

226 30.5 23.7 35.5

229 24.1 15.7 23.5#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 2271

Delta R.T. 0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

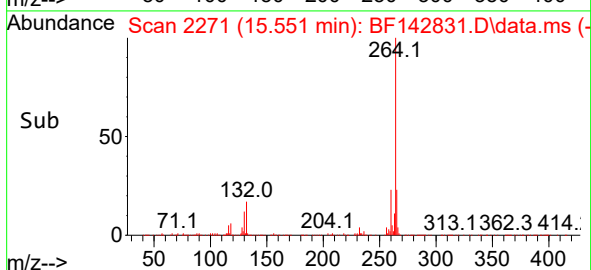
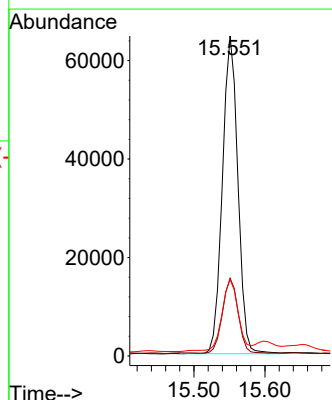
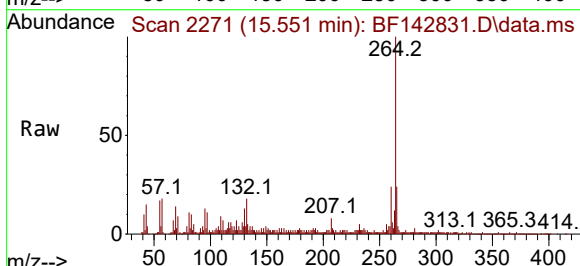
Tgt Ion:264 Resp: 97400

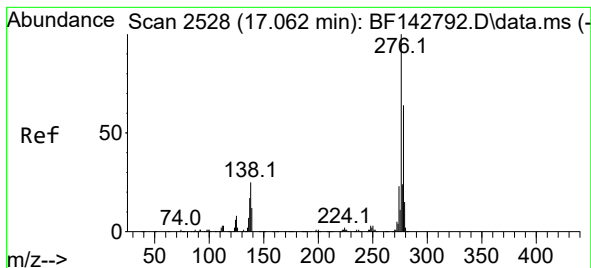
Ion Ratio Lower Upper

264 100

260 24.3 18.1 27.1

265 23.9 16.6 25.0





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.337 ng

RT: 17.057 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

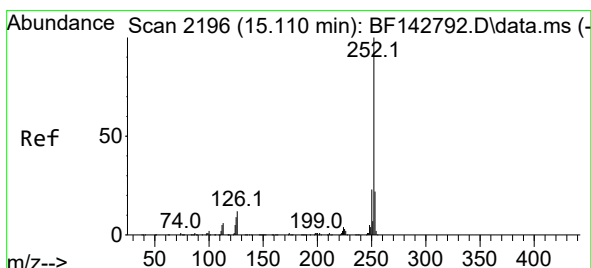
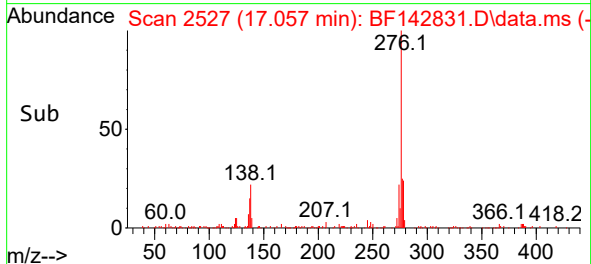
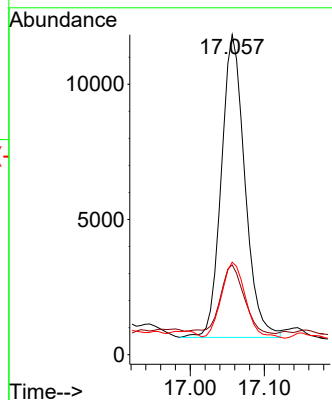
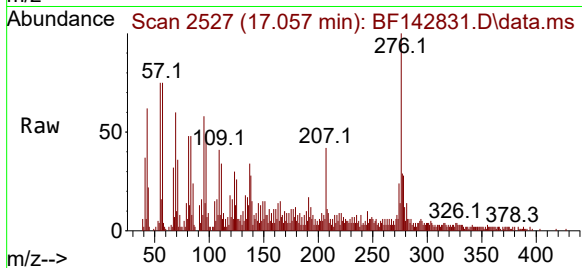
Tgt Ion:276 Resp: 24754

Ion Ratio Lower Upper

276 100

138 22.7 20.2 30.4

277 25.7 19.8 29.6



#88

Benzo(b)fluoranthene

Concen: 14.188 ng

RT: 15.116 min Scan# 2197

Delta R.T. 0.006 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

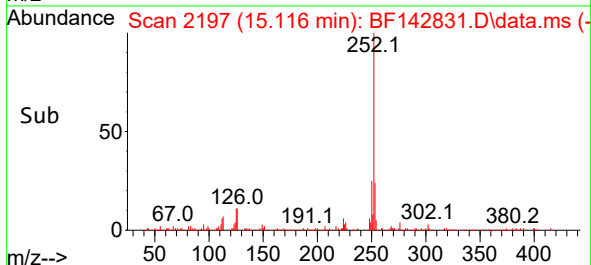
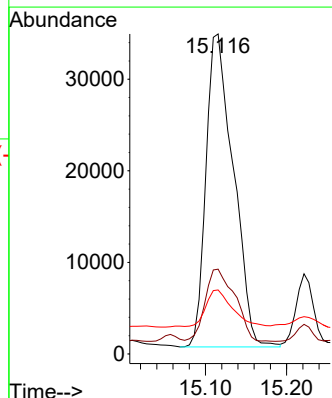
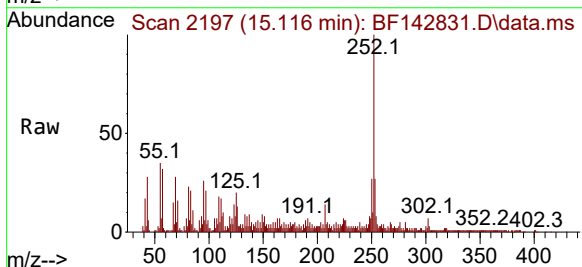
Tgt Ion:252 Resp: 79963

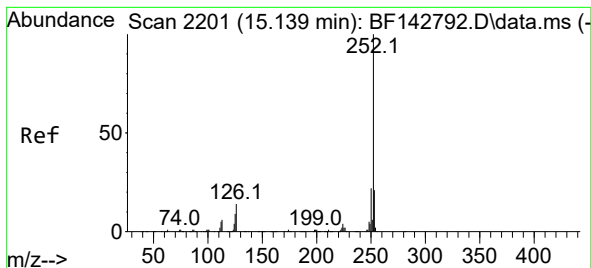
Ion Ratio Lower Upper

252 100

253 26.5 17.5 26.3#

125 20.0 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 15.165 ng

RT: 15.116 min Scan# 21

Delta R.T. -0.023 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025

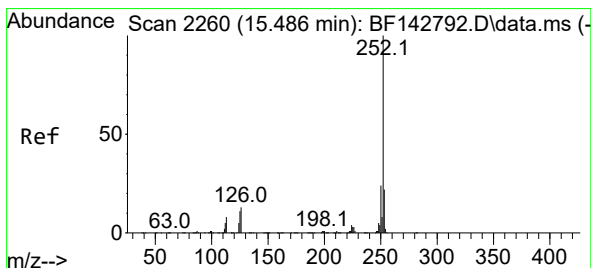
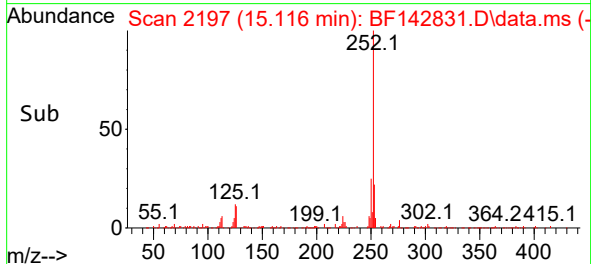
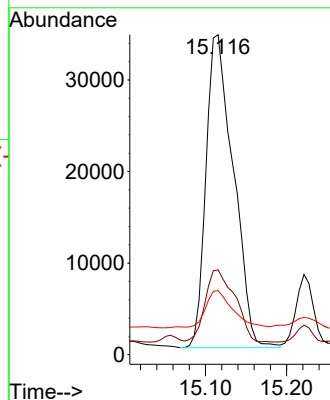
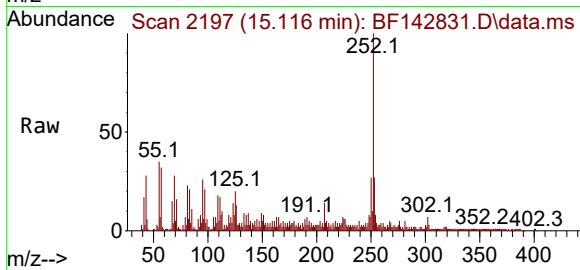
Tgt Ion:252 Resp: 79963

Ion Ratio Lower Upper

252 100

253 26.5 17.2 25.8#

125 20.0 7.4 11.2#



#90

Benzo(a)pyrene

Concen: 10.272 ng

RT: 15.486 min Scan# 2260

Delta R.T. 0.000 min

Lab File: BF142831.D

Acq: 24 Jun 2025 21:08

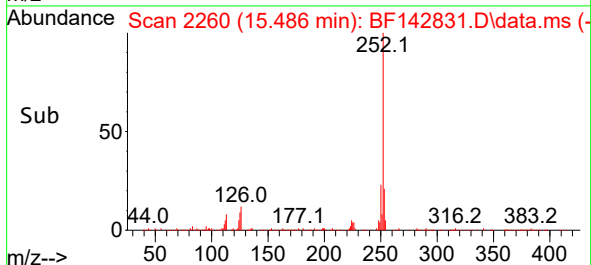
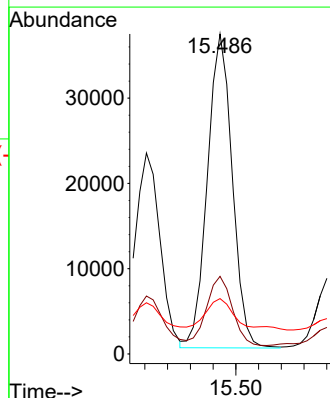
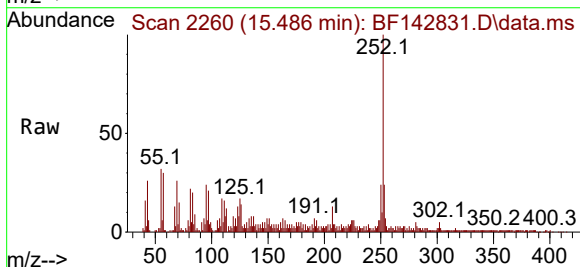
Tgt Ion:252 Resp: 55929

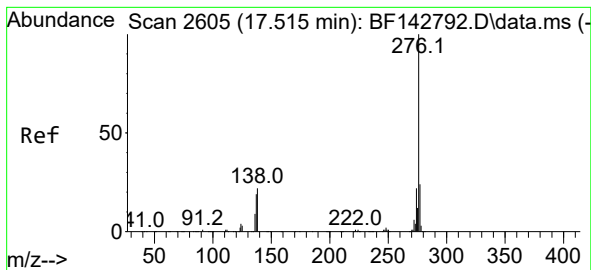
Ion Ratio Lower Upper

252 100

253 24.3 17.5 26.3

125 17.3 8.6 12.8#





#92

Benzo(g,h,i)perylene

Concen: 4.478 ng

RT: 17.515 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF142831.D

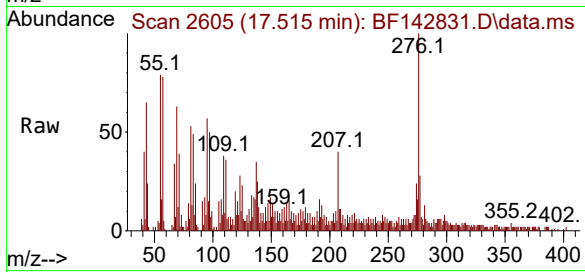
Acq: 24 Jun 2025 21:08

Instrument :

BNA_F

ClientSampleId :

OK-01-6202025



Tgt Ion: 276 Resp: 26919

Ion Ratio Lower Upper

276 100

277 28.5 18.8 28.2#

138 25.1 17.6 26.4

