

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032025\
 Data File : BF142020.D
 Acq On : 20 Mar 2025 19:35
 Operator : RC/JU
 Sample : Q1603-01 2X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NB-070-031925

Quant Time: Mar 21 01:08:36 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 10 15:46:22 2025
 Response via : Initial Calibration

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

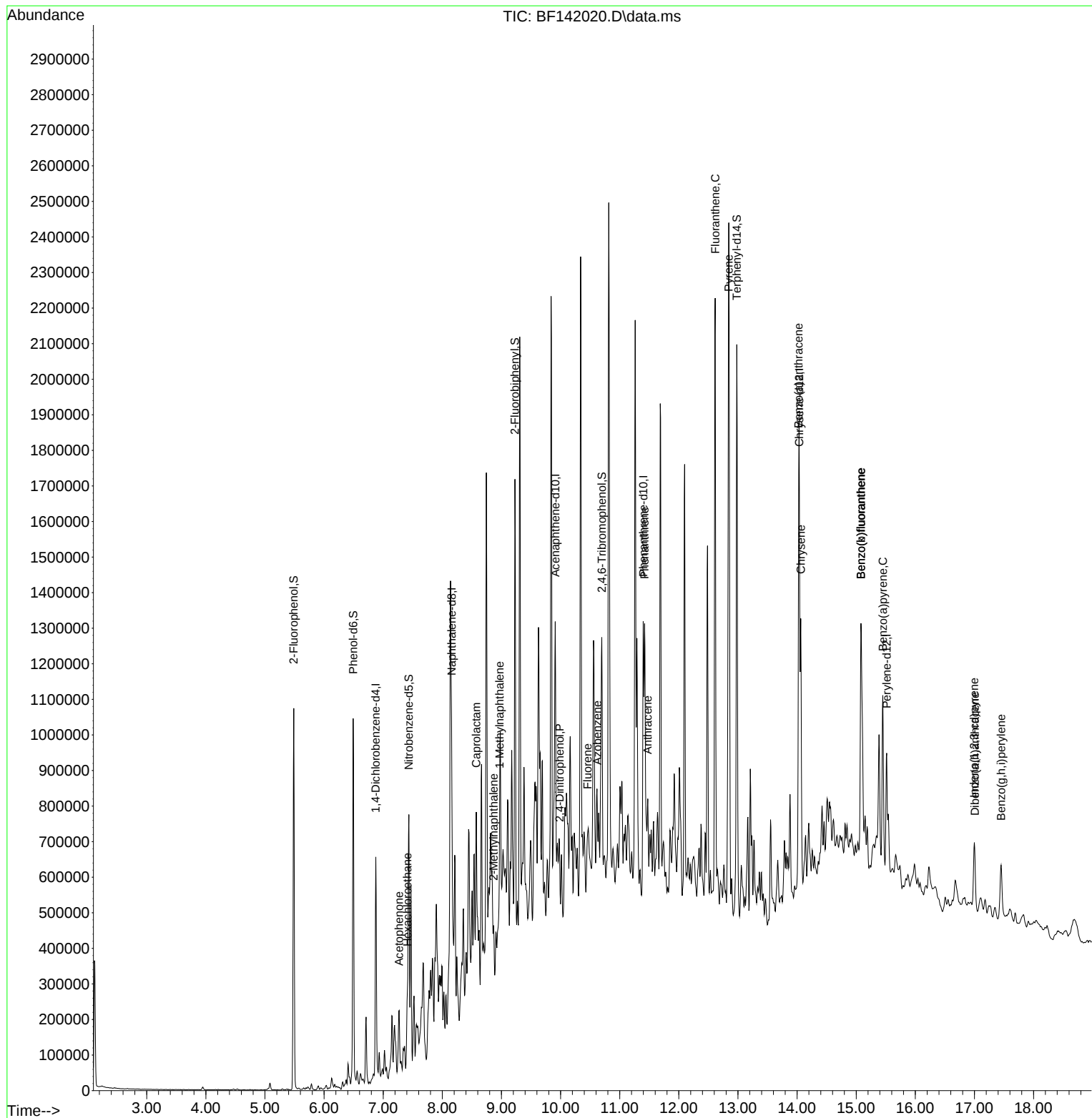
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	124541	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	412707	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	198659	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	362717	20.000	ng	0.00
76) Chrysene-d12	14.039	240	306849	20.000	ng	0.00
86) Perylene-d12	15.515	264	216981	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	408536	54.747	ng	0.00
7) Phenol-d6	6.492	99	477578	50.266	ng	-0.01
23) Nitrobenzene-d5	7.434	82	302454	41.242	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	129479	51.375	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	544911	41.715	ng	-0.01
79) Terphenyl-d14	12.980	244	756154	36.433	ng	0.00
Target Compounds						
						Qvalue
18) Hexachloroethane	7.410	117	11742	3.464	ng	# 1
22) Acetophenone	7.269	105	32541	3.293	ng	# 55
35) Caprolactam	8.575	113	14694	7.881	ng	# 1
37) 2-Methylnaphthalene	8.869	142	38116	2.690	ng	97
38) 1-Methylnaphthalene	8.969	142	33451	2.446	ng	92
54) 2,4-Dinitrophenol	9.986	184	246	6.711	ng	# 1
58) Fluorene	10.457	166	41587	3.217	ng	# 91
63) Azobenzene	10.622	77	33488	2.597	ng	# 1
71) Phenanthrene	11.422	178	369006	18.835	ng	99
72) Anthracene	11.474	178	124092	6.313	ng	97
75) Fluoranthene	12.616	202	981399	47.223	ng	99
78) Pyrene	12.845	202	1001829	37.744	ng	99
81) Benzo(a)anthracene	14.027	228	512317	25.443	ng	96
83) Chrysene	14.063	228	414839	22.728	ng	96
87) Indeno(1,2,3-cd)pyrene	16.998	276	157272	11.205	ng	# 94
88) Benzo(b)fluoranthene	15.080	252	586428	39.434	ng	# 96
89) Benzo(k)fluoranthene	15.080	252	586428	46.081	ng	# 97
90) Benzo(a)pyrene	15.451	252	303810	26.110	ng	98
91) Dibenzo(a,h)anthracene	17.009	278	42554	3.674	ng	# 77
92) Benzo(g,h,i)perylene	17.451	276	158731	13.870	ng	97

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

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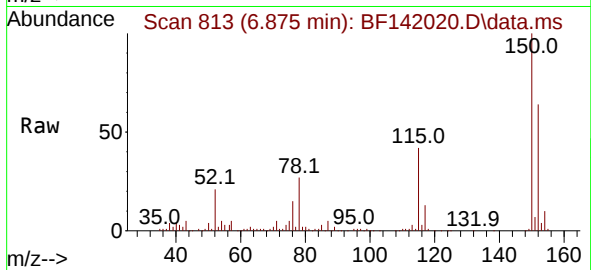
Quant Time: Mar 21 01:08:36 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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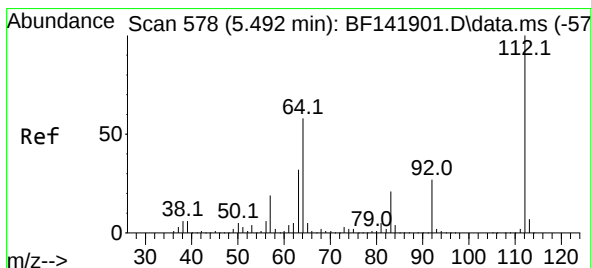
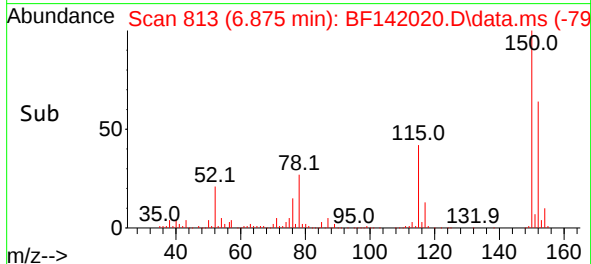
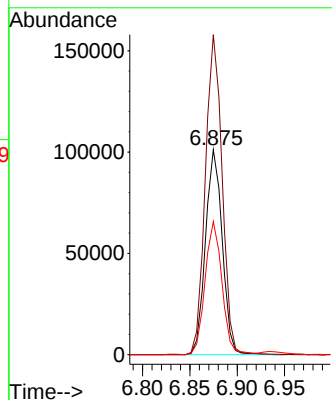


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

Instrument :
BNA_F
ClientSampleId :
NB-070-031925

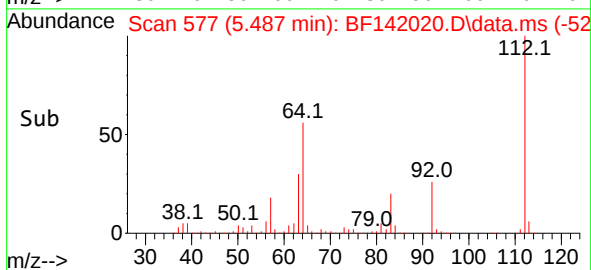
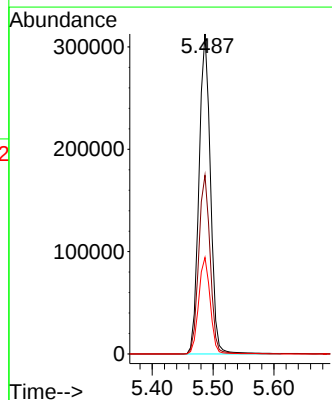
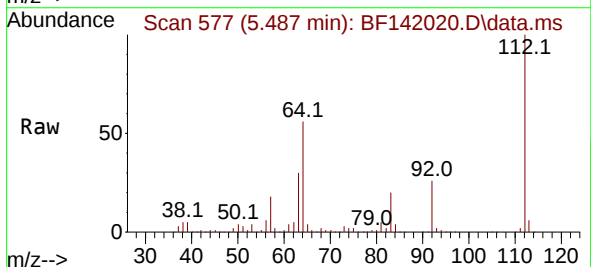


Tgt Ion:152 Resp: 124541
Ion Ratio Lower Upper
152 100
150 156.2 127.4 191.2
115 65.0 51.9 77.9



#5
2-Fluorophenol
Concen: 54.747 ng
RT: 5.487 min Scan# 577
Delta R.T. -0.006 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

Tgt Ion:112 Resp: 408536
Ion Ratio Lower Upper
112 100
64 55.8 46.5 69.7
63 30.2 25.4 38.2

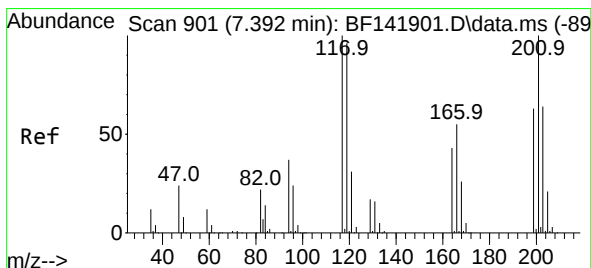
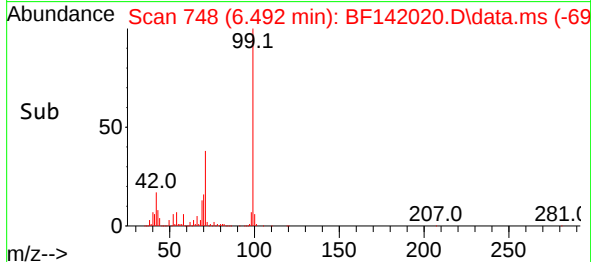
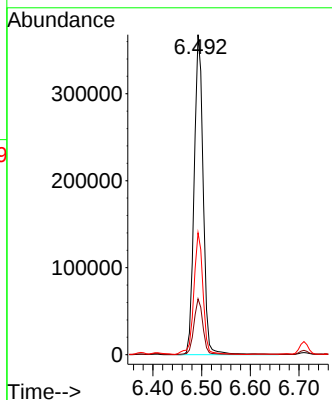
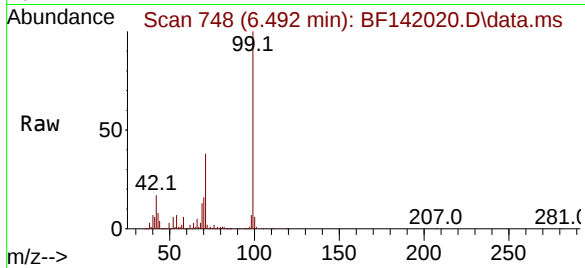




#7
Phenol-d6
Concen: 50.266 ng
RT: 6.492 min Scan# 741
Delta R.T. -0.012 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

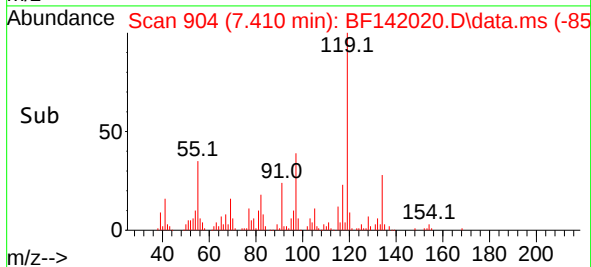
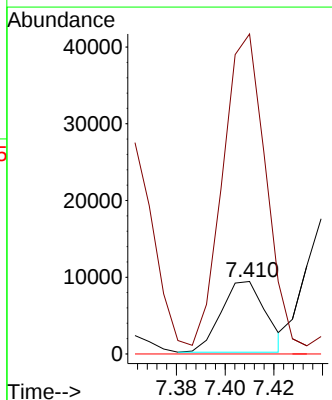
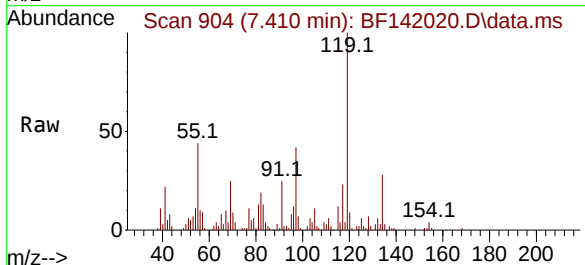
Instrument :
BNA_F
ClientSampleId :
NB-070-031925

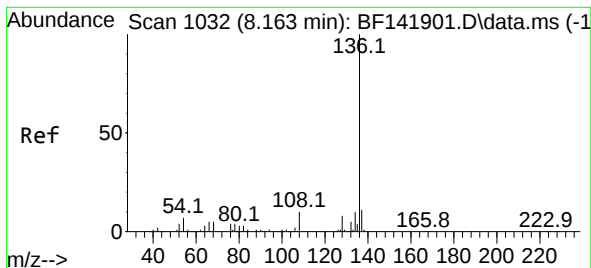
Tgt Ion: 99 Resp: 477578
Ion Ratio Lower Upper
99 100
42 17.5 14.6 21.8
71 38.1 30.8 46.2



#18
Hexachloroethane
Concen: 3.464 ng
RT: 7.410 min Scan# 904
Delta R.T. 0.018 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

Tgt Ion: 117 Resp: 11742
Ion Ratio Lower Upper
117 100
119 441.3 76.9 115.3#
201 0.0 79.9 119.9#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.157 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

NB-070-031925

Tgt Ion:136 Resp: 412707

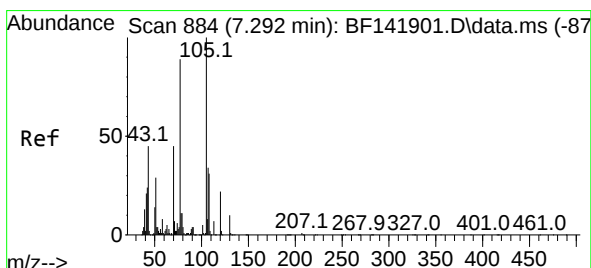
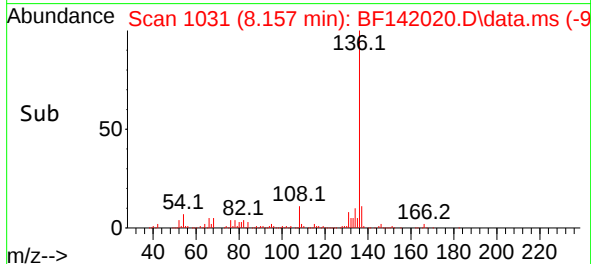
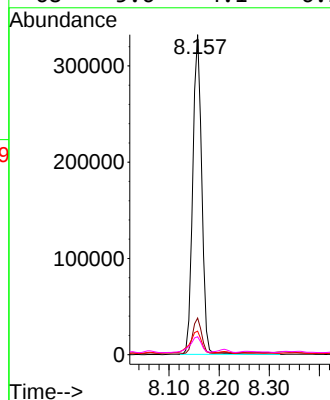
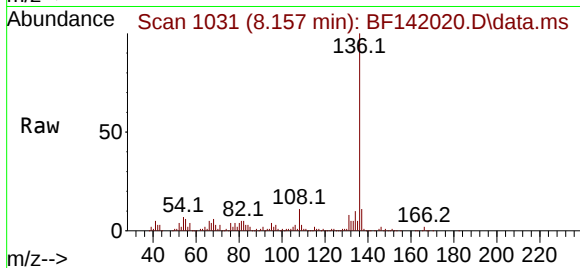
Ion Ratio Lower Upper

136 100

137 11.4 8.8 13.2

54 7.4 5.8 8.8

68 5.6 4.1 6.1



#22

Acetophenone

Concen: 3.293 ng

RT: 7.269 min Scan# 880

Delta R.T. -0.024 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Tgt Ion:105 Resp: 32541

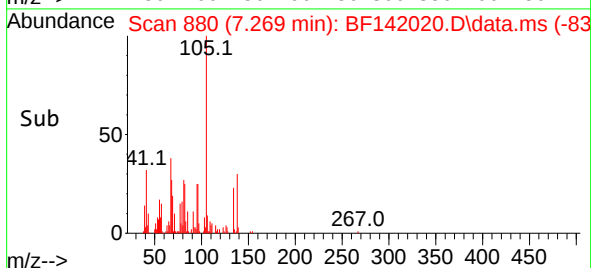
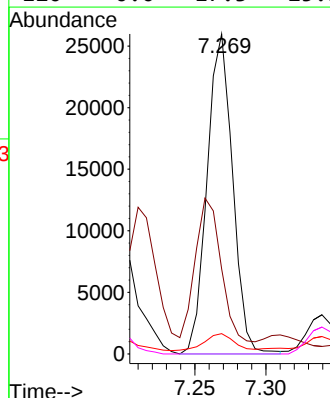
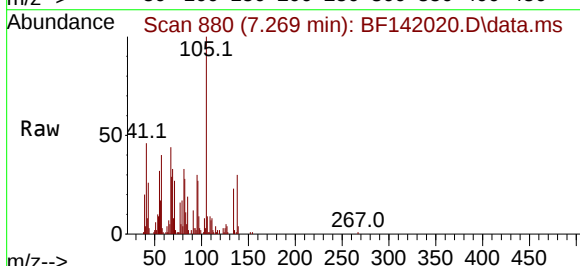
Ion Ratio Lower Upper

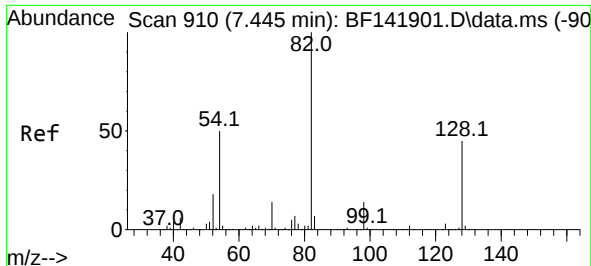
105 100

71 26.6 5.8 8.8#

51 6.3 23.4 35.0#

120 0.0 17.3 25.9#

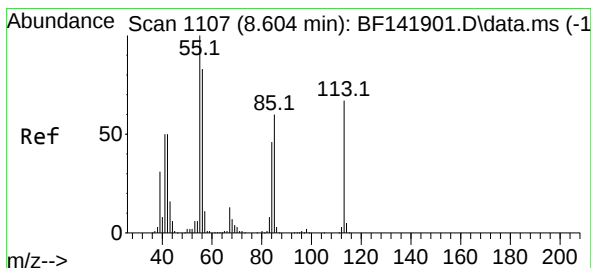
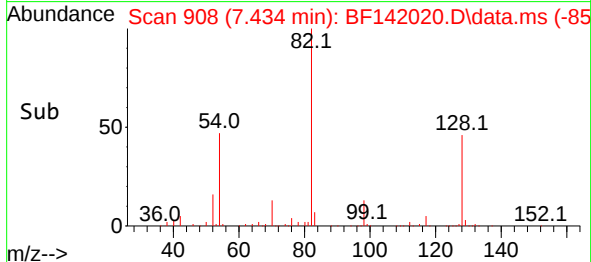
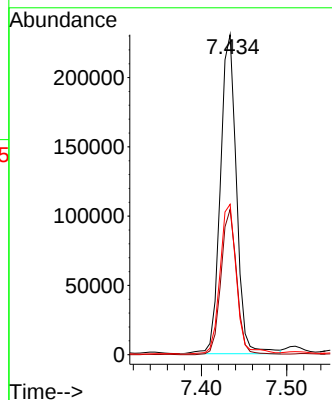
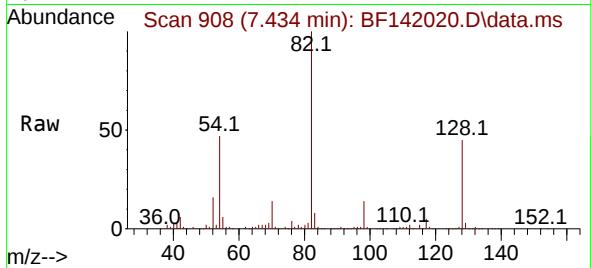




#23
Nitrobenzene-d5
Concen: 41.242 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

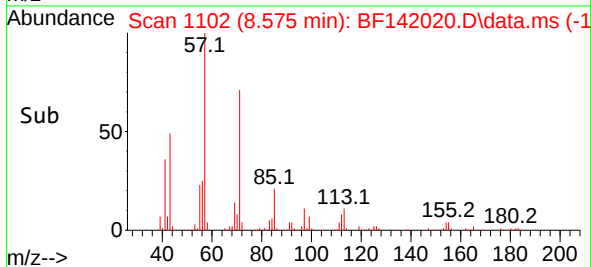
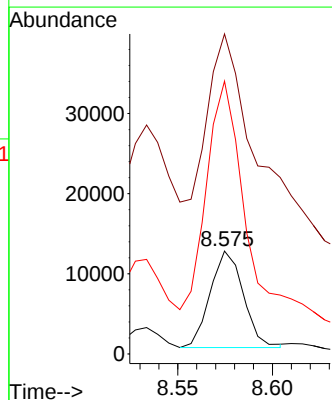
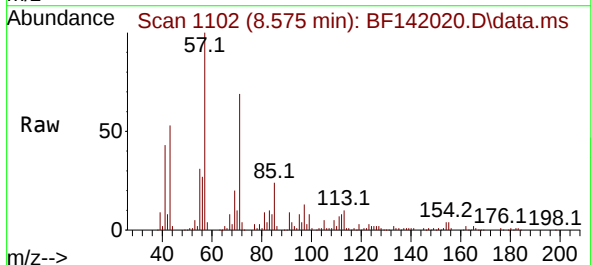
Instrument :
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NB-070-031925

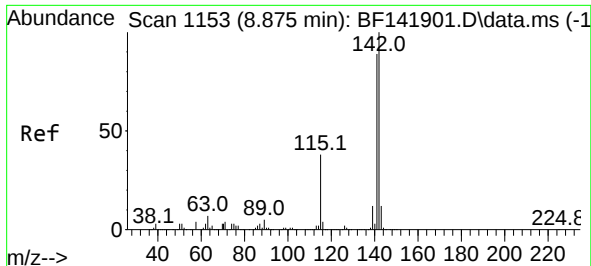
Tgt Ion: 82 Resp: 302454
Ion Ratio Lower Upper
82 100
128 45.4 36.0 54.0
54 47.0 39.6 59.4



#35
Caprolactam
Concen: 7.881 ng
RT: 8.575 min Scan# 1102
Delta R.T. -0.029 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

Tgt Ion: 113 Resp: 14694
Ion Ratio Lower Upper
113 100
55 311.1 129.6 169.6#
56 265.2 104.0 144.0#





#37

2-Methylnaphthalene

Concen: 2.690 ng

RT: 8.869 min Scan# 1153

Delta R.T. -0.006 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

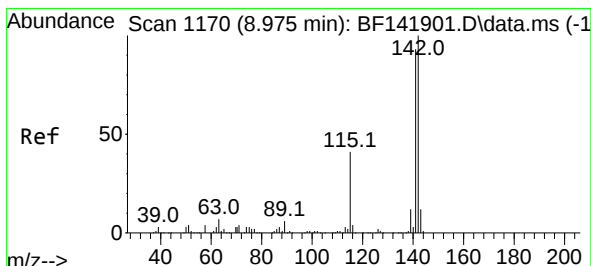
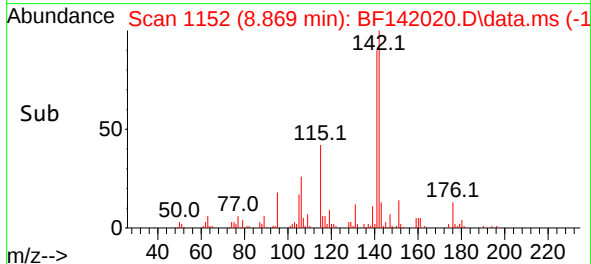
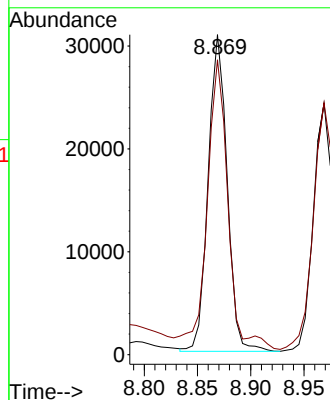
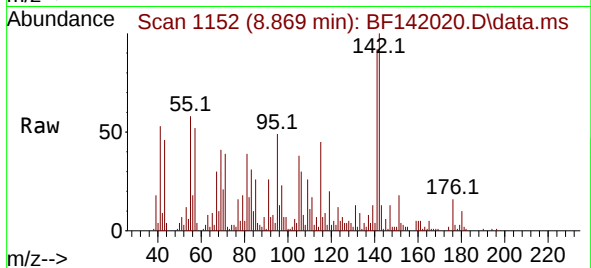
NB-070-031925

Tgt Ion:142 Resp: 38116

Ion Ratio Lower Upper

142 100

141 92.2 71.2 106.8



#38

1-Methylnaphthalene

Concen: 2.446 ng

RT: 8.969 min Scan# 1169

Delta R.T. -0.006 min

Lab File: BF142020.D

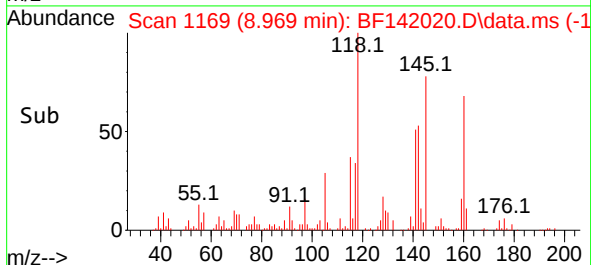
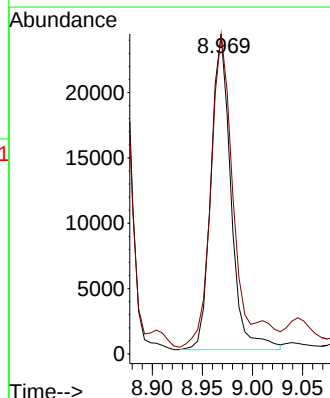
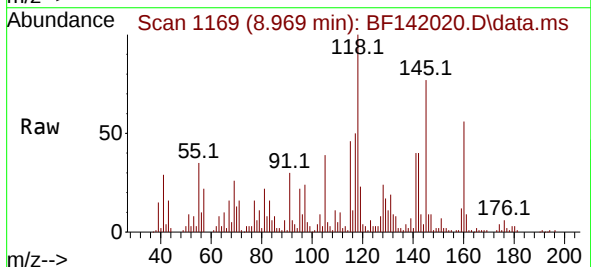
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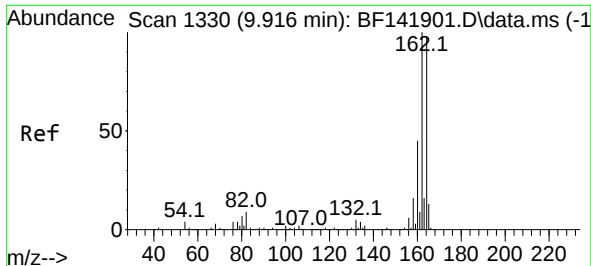
Tgt Ion:142 Resp: 33451

Ion Ratio Lower Upper

142 100

141 100.2 74.2 111.4

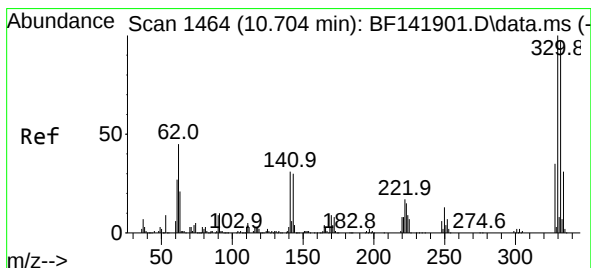
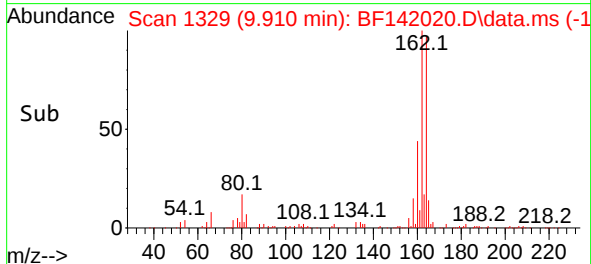
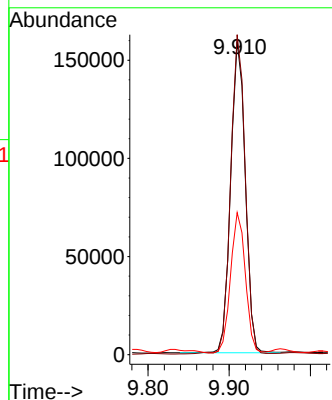
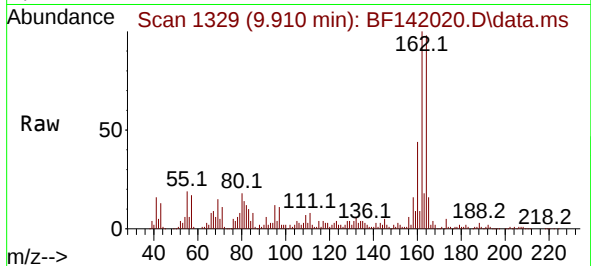




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

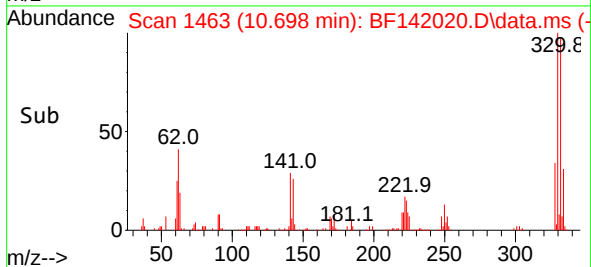
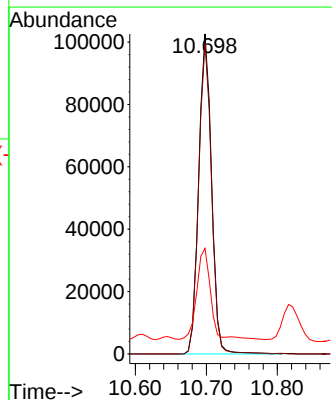
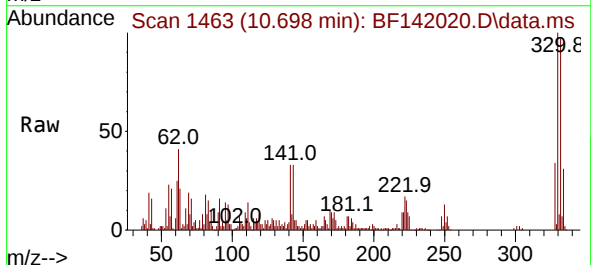
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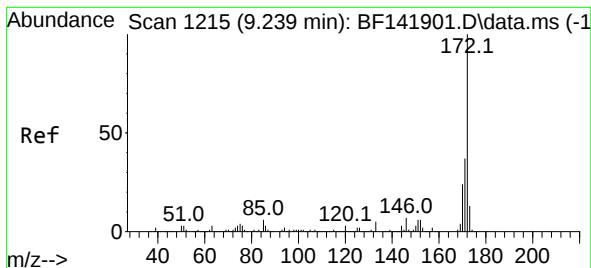
Tgt Ion:164 Resp: 198659
Ion Ratio Lower Upper
164 100
162 102.2 81.8 122.6
160 45.4 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 51.375 ng
RT: 10.698 min Scan# 1463
Delta R.T. -0.006 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

Tgt Ion:330 Resp: 129479
Ion Ratio Lower Upper
330 100
332 96.8 77.6 116.4
141 29.3 24.7 37.1





#45

2-Fluorobiphenyl

Concen: 41.715 ng

RT: 9.228 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

NB-070-031925

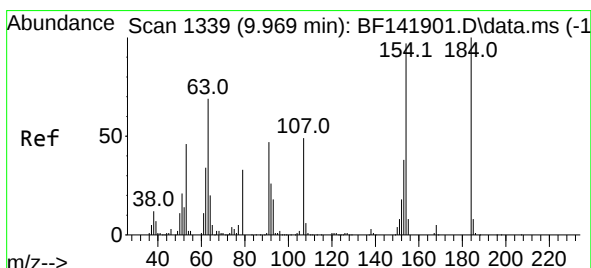
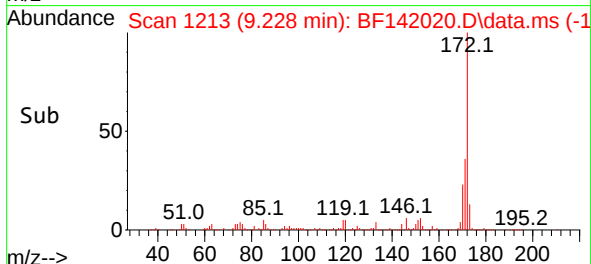
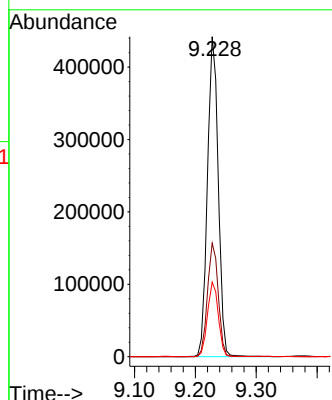
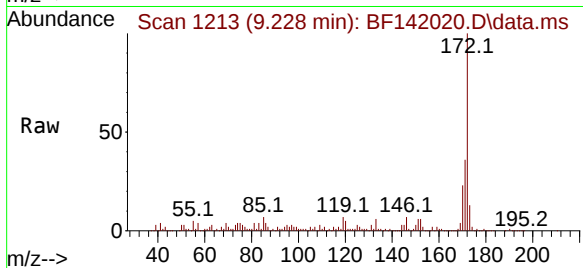
Tgt Ion:172 Resp: 544911

Ion Ratio Lower Upper

172 100

171 35.5 29.3 43.9

170 23.3 19.4 29.0



#54

2,4-Dinitrophenol

Concen: 6.711 ng

RT: 9.986 min Scan# 1342

Delta R.T. 0.017 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

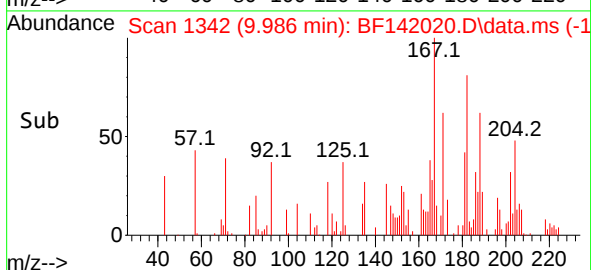
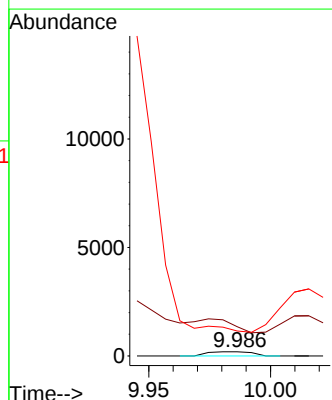
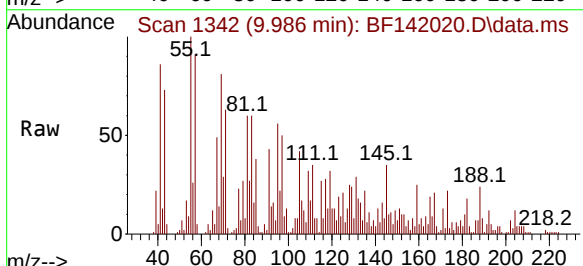
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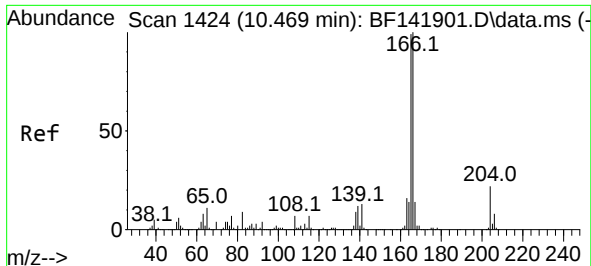
Ion Ratio Lower Upper

184 100

63 702.6 60.2 90.4#

154 600.5 132.9 199.3#

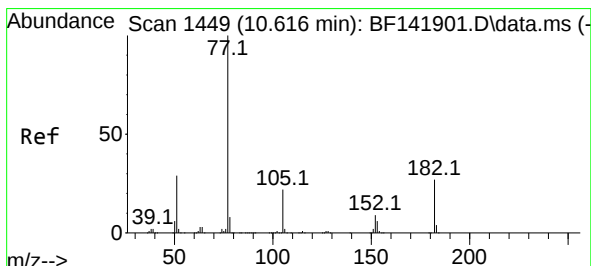
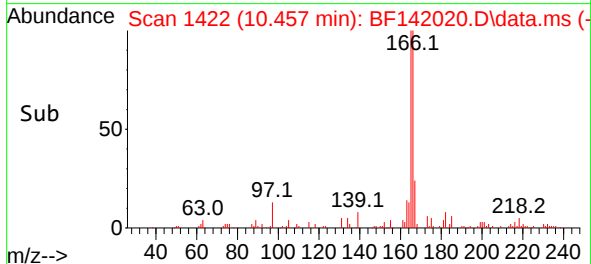
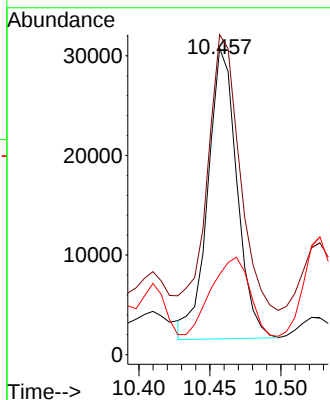
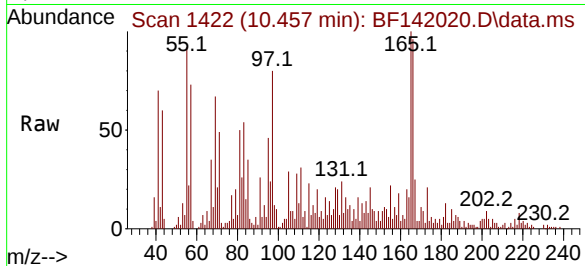




#58
Fluorene
Concen: 3.217 ng
RT: 10.457 min Scan# 1419
Delta R.T. -0.012 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

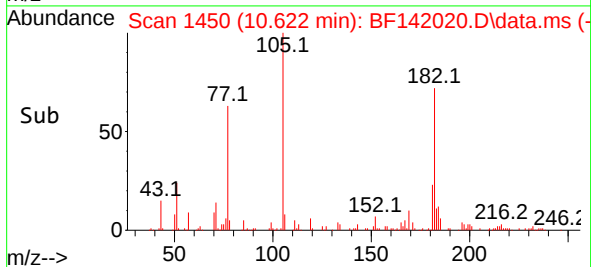
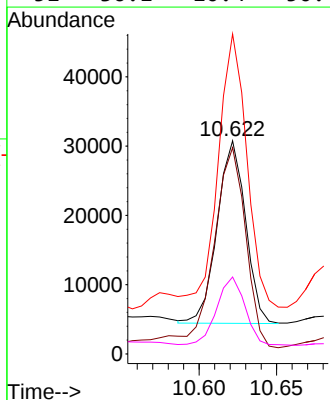
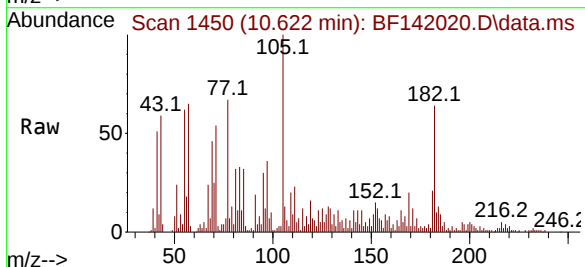
Instrument :
BNA_F
ClientSampleId :
NB-070-031925

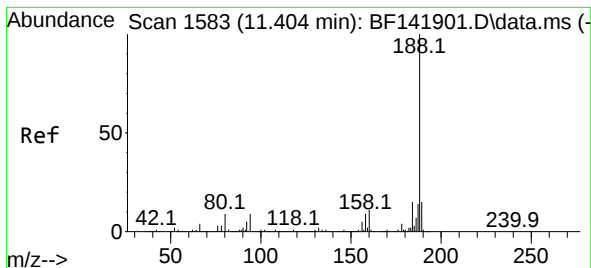
Tgt Ion:166 Resp: 41587
Ion Ratio Lower Upper
166 100
165 104.4 79.0 118.4
167 26.2 11.0 16.4#



#63
Azobenzene
Concen: 2.597 ng
RT: 10.622 min Scan# 1450
Delta R.T. 0.006 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

Tgt Ion: 77 Resp: 33488
Ion Ratio Lower Upper
77 100
182 96.8 6.6 46.6#
105 150.2 1.3 41.3#
51 36.1 10.4 50.4





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.398 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

NB-070-031925

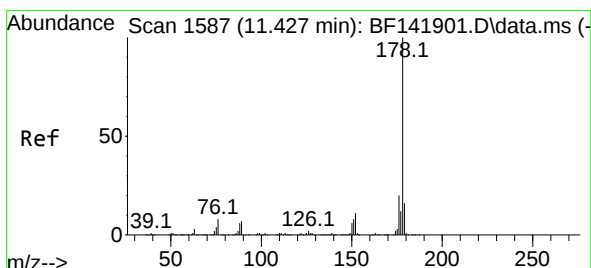
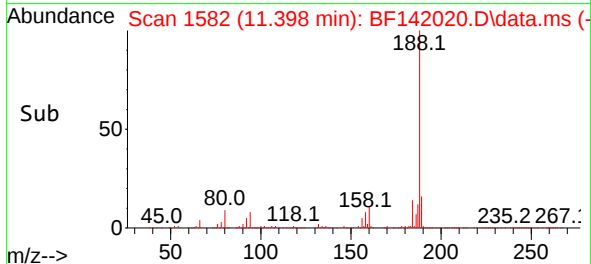
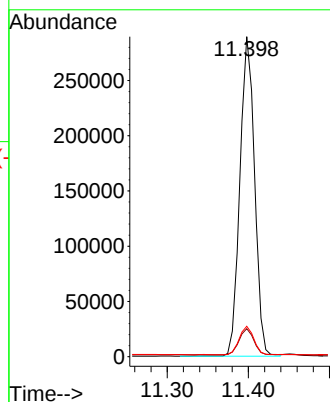
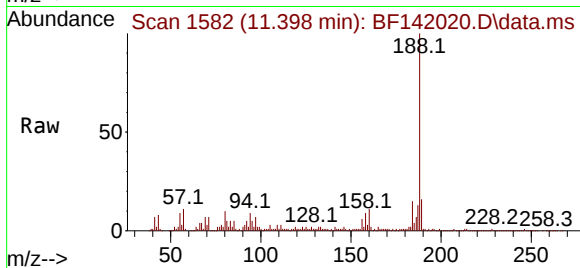
Tgt Ion:188 Resp: 362717

Ion Ratio Lower Upper

188 100

94 8.8 6.8 10.2

80 9.5 7.6 11.4



#71

Phenanthrene

Concen: 18.835 ng

RT: 11.422 min Scan# 1586

Delta R.T. -0.006 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

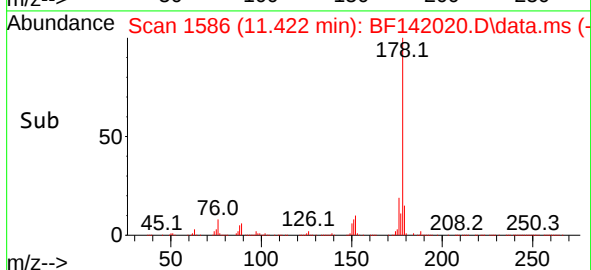
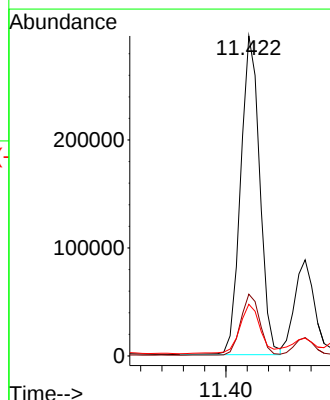
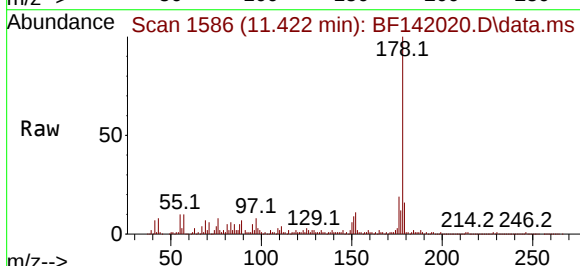
Tgt Ion:178 Resp: 369006

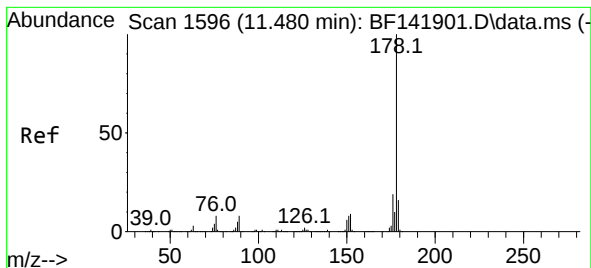
Ion Ratio Lower Upper

178 100

176 19.3 15.8 23.8

179 16.1 12.6 19.0





#72

Anthracene

Concen: 6.313 ng

RT: 11.474 min Scan# 1595

Delta R.T. -0.006 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

NB-070-031925

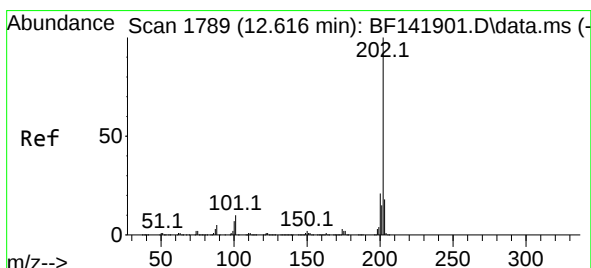
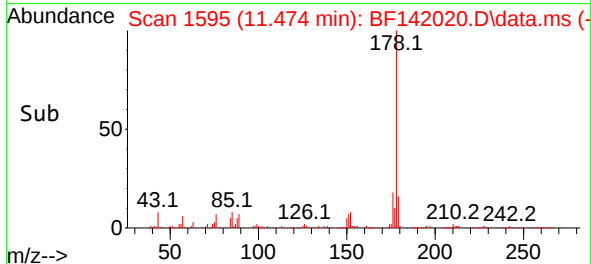
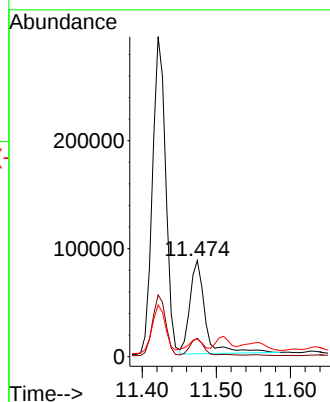
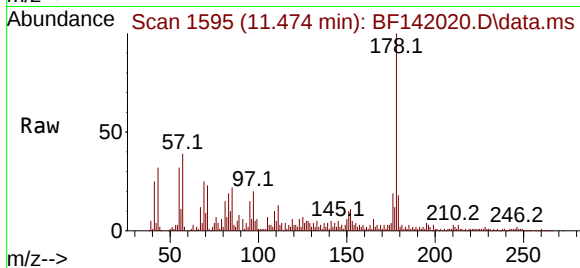
Tgt Ion:178 Resp: 124092

Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

179 18.4 12.6 19.0



#75

Fluoranthene

Concen: 47.223 ng

RT: 12.616 min Scan# 1789

Delta R.T. 0.000 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

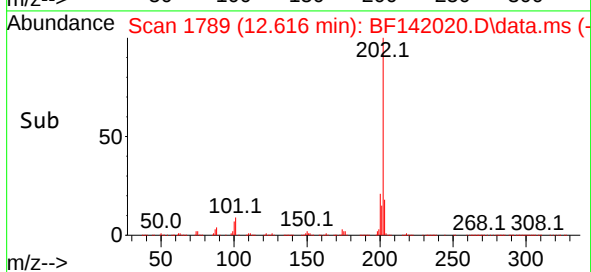
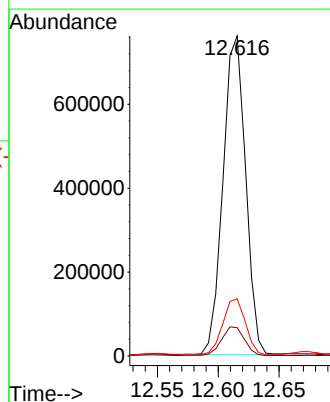
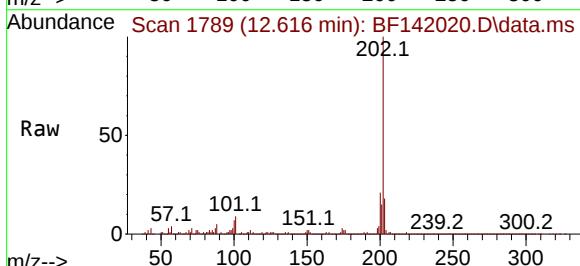
Tgt Ion:202 Resp: 981399

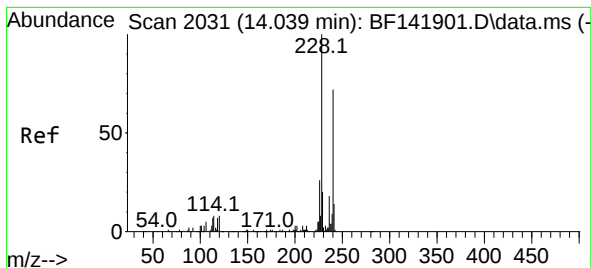
Ion Ratio Lower Upper

202 100

101 8.8 0.0 29.7

203 17.9 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.039 min Scan# 2031

Delta R.T. 0.000 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

NB-070-031925

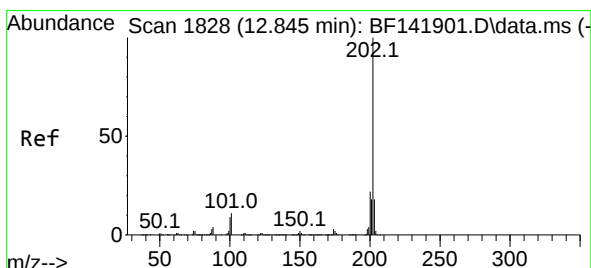
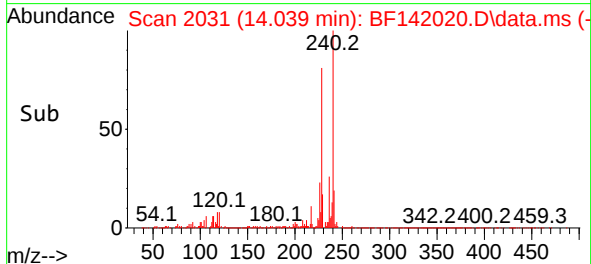
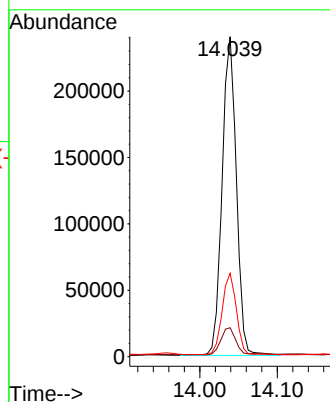
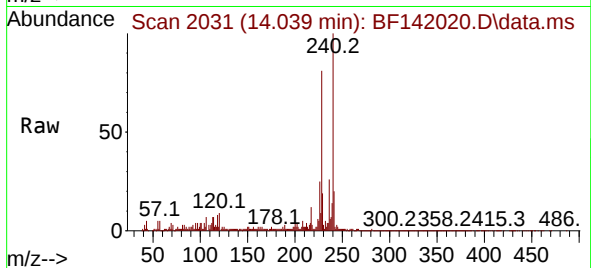
Tgt Ion:240 Resp: 306849

Ion Ratio Lower Upper

240 100

120 9.0 8.4 12.6

236 26.1 20.5 30.7



#78

Pyrene

Concen: 37.744 ng

RT: 12.845 min Scan# 1828

Delta R.T. 0.000 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

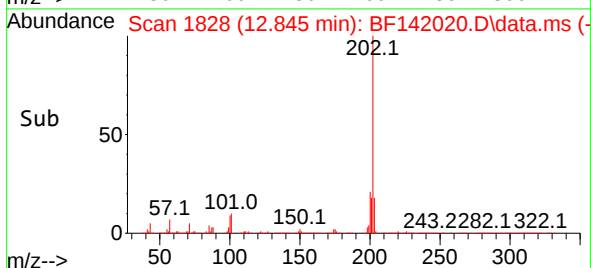
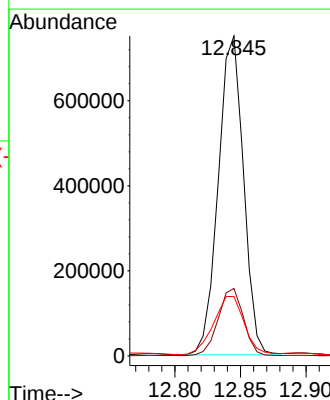
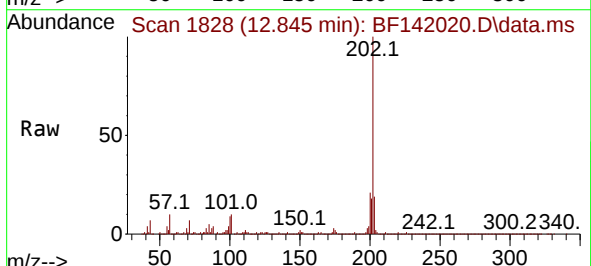
Tgt Ion:202 Resp: 1001829

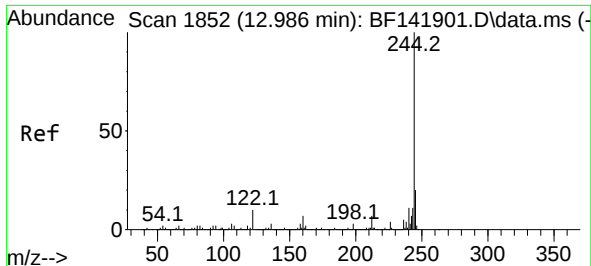
Ion Ratio Lower Upper

202 100

200 21.1 17.3 25.9

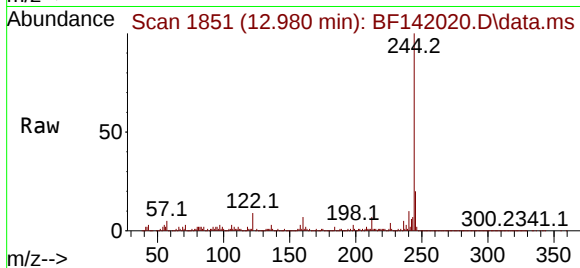
203 18.6 14.4 21.6



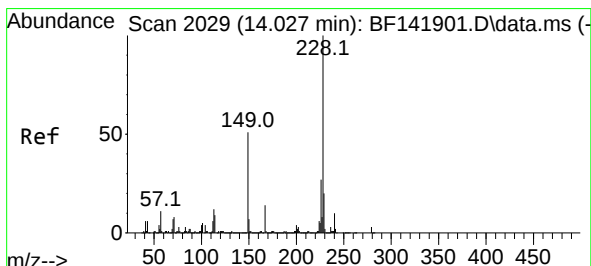
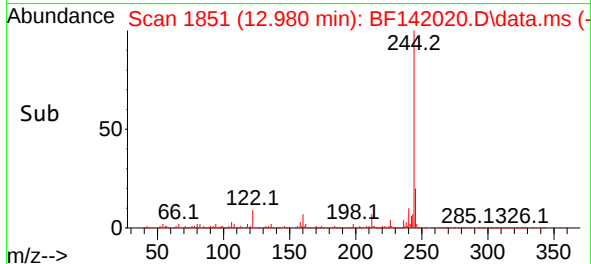
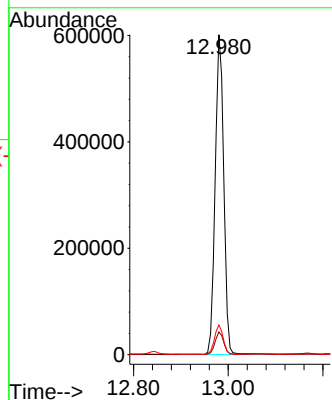


#79
 Terphenyl-d14
 Concen: 36.433 ng
 RT: 12.980 min Scan# 1851
 Delta R.T. -0.006 min
 Lab File: BF142020.D
 Acq: 20 Mar 2025 19:35

Instrument :
 BNA_F
 ClientSampleId :
 NB-070-031925

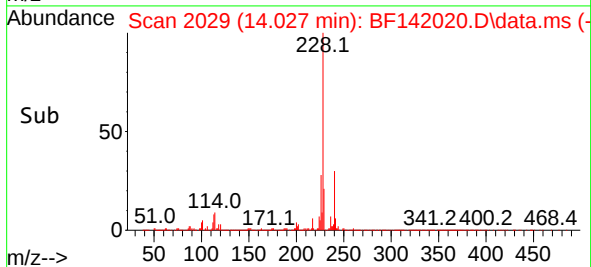
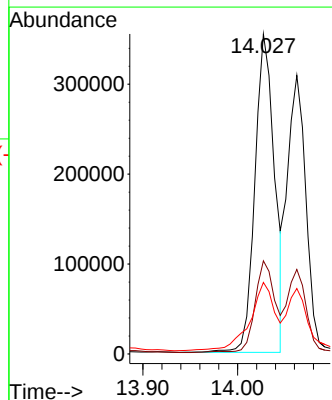
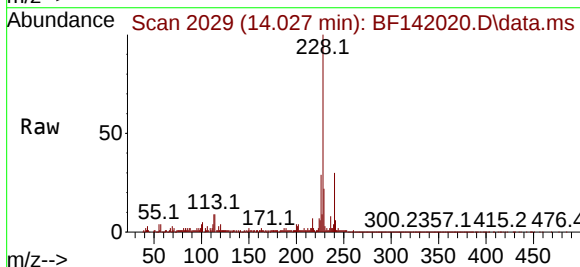


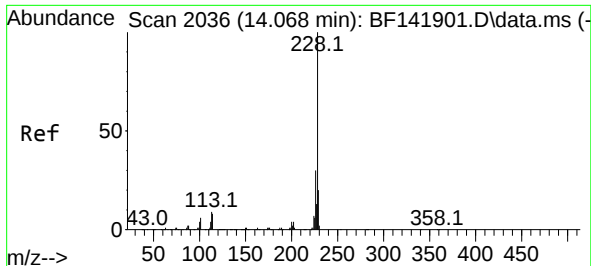
Tgt Ion:244 Resp: 756154
 Ion Ratio Lower Upper
 244 100
 212 7.1 6.0 9.0
 122 9.3 7.7 11.5



#81
 Benzo(a)anthracene
 Concen: 25.443 ng
 RT: 14.027 min Scan# 2029
 Delta R.T. 0.000 min
 Lab File: BF142020.D
 Acq: 20 Mar 2025 19:35

Tgt Ion:228 Resp: 512317
 Ion Ratio Lower Upper
 228 100
 226 29.1 21.8 32.8
 229 22.3 16.0 24.0

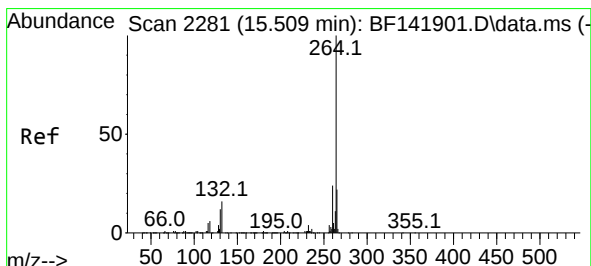
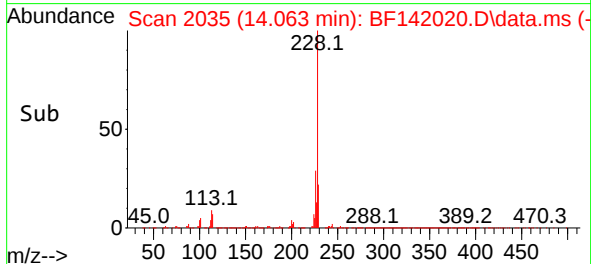
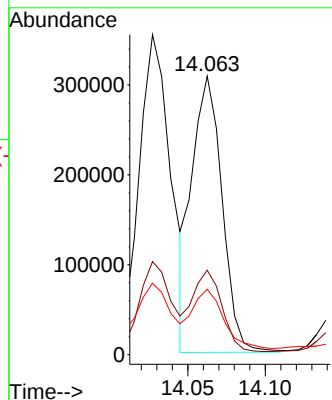
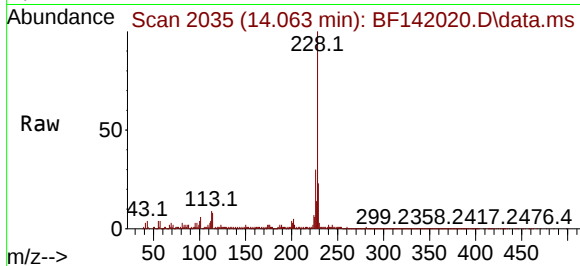




#83
Chrysene
Concen: 22.728 ng
RT: 14.063 min Scan# 2036
Delta R.T. -0.006 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

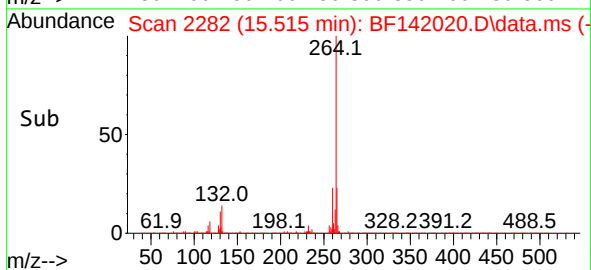
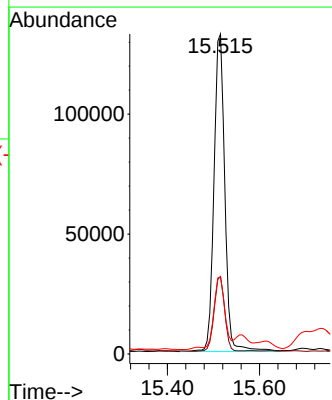
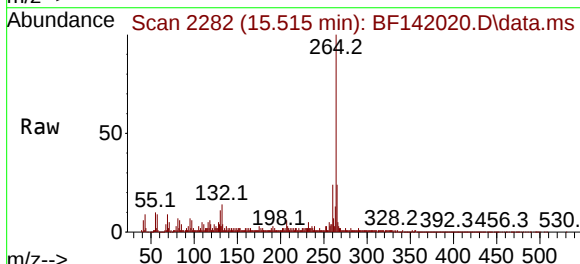
Instrument :
BNA_F
ClientSampleId :
NB-070-031925

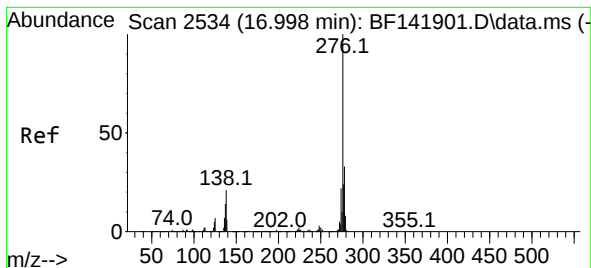
Tgt Ion:228 Resp: 414839
Ion Ratio Lower Upper
228 100
226 30.3 24.1 36.1
229 23.5 15.7 23.5



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.515 min Scan# 2282
Delta R.T. 0.006 min
Lab File: BF142020.D
Acq: 20 Mar 2025 19:35

Tgt Ion:264 Resp: 216981
Ion Ratio Lower Upper
264 100
260 24.2 19.1 28.7
265 24.1 17.5 26.3





#87

Indeno(1,2,3-cd)pyrene

Concen: 11.205 ng

RT: 16.998 min Scan# 2534

Delta R.T. 0.000 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

NB-070-031925

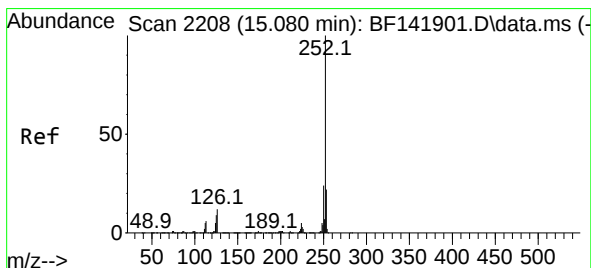
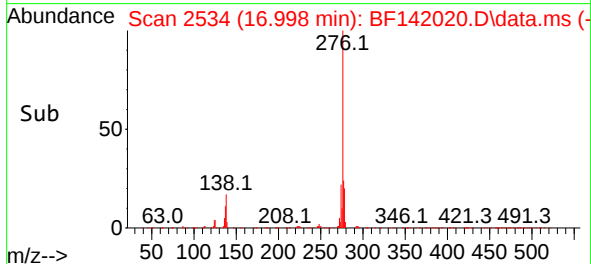
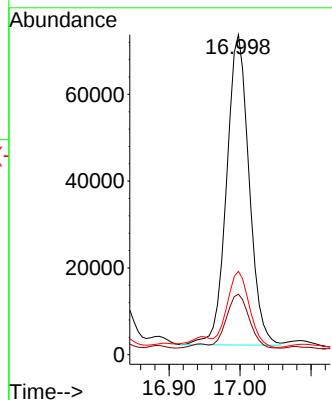
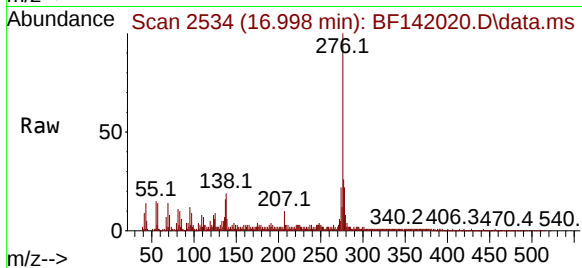
Tgt Ion:276 Resp: 157272

Ion Ratio Lower Upper

276 100

138 18.0 18.4 27.6#

277 24.4 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 39.434 ng

RT: 15.080 min Scan# 2208

Delta R.T. 0.000 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

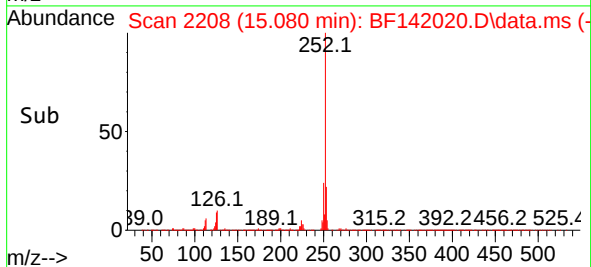
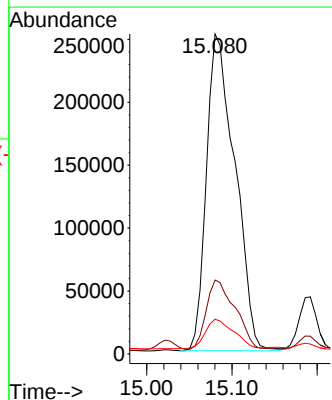
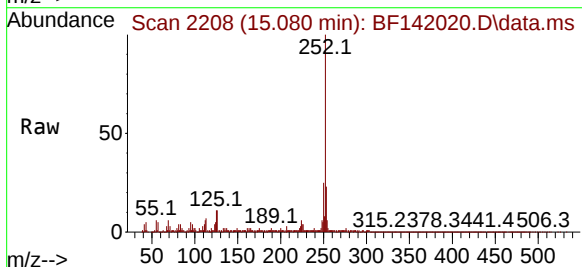
Tgt Ion:252 Resp: 586428

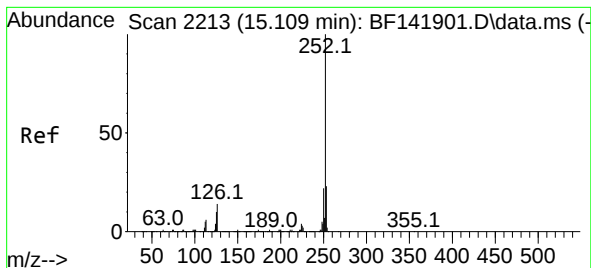
Ion Ratio Lower Upper

252 100

253 23.1 17.5 26.3

125 10.8 7.0 10.4#





#89

Benzo(k)fluoranthene

Concen: 46.081 ng

RT: 15.080 min Scan# 2213

Delta R.T. -0.029 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

NB-070-031925

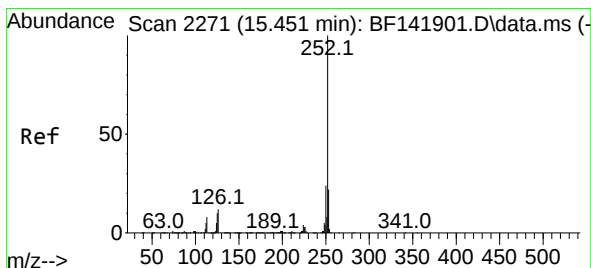
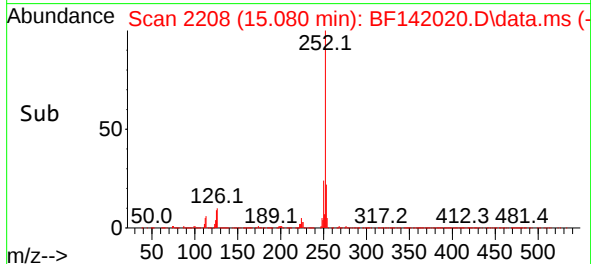
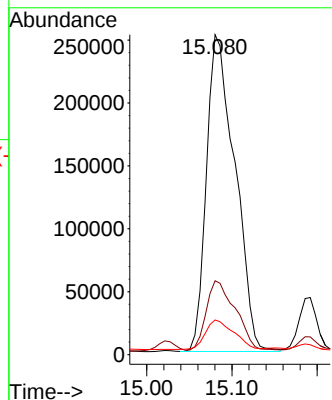
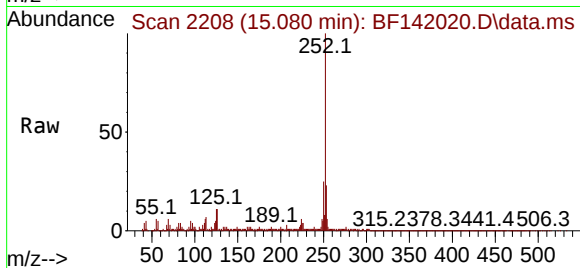
Tgt Ion:252 Resp: 586428

Ion Ratio Lower Upper

252 100

253 23.1 17.7 26.5

125 10.8 7.2 10.8#



#90

Benzo(a)pyrene

Concen: 26.110 ng

RT: 15.451 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

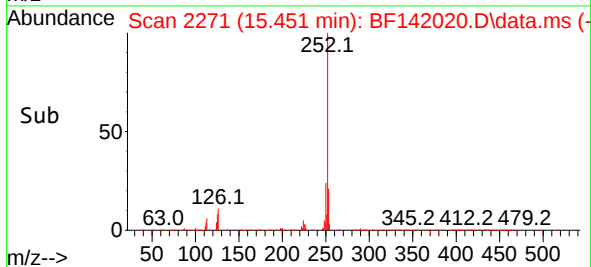
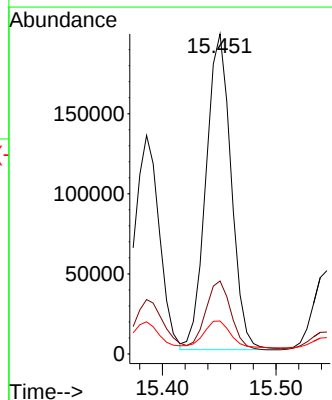
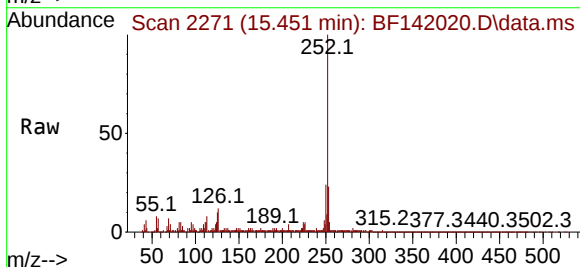
Tgt Ion:252 Resp: 303810

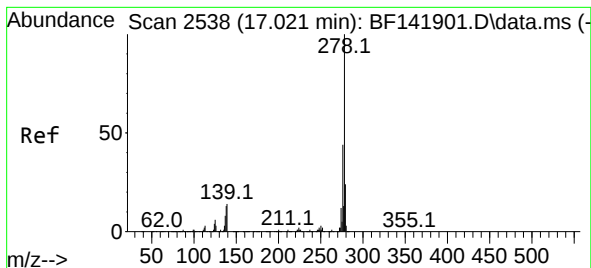
Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

125 10.3 7.8 11.8





#91

Dibenzo(a,h)anthracene

Concen: 3.674 ng

RT: 17.009 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Instrument :

BNA_F

ClientSampleId :

NB-070-031925

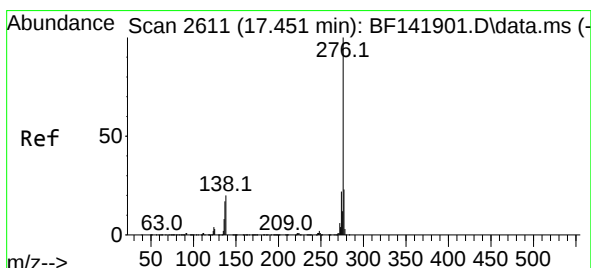
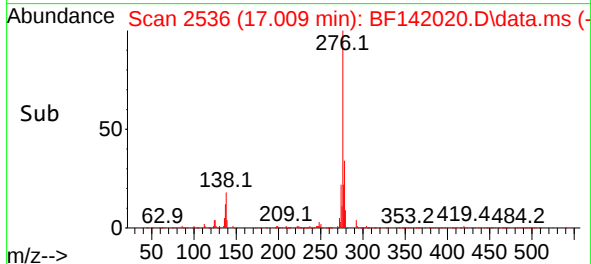
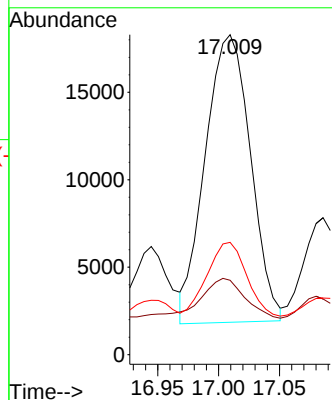
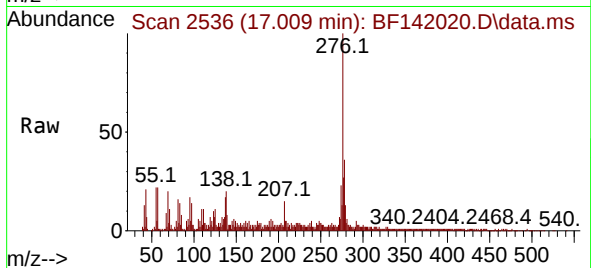
Tgt Ion:278 Resp: 42554

Ion Ratio Lower Upper

278 100

139 23.2 11.4 17.2#

279 35.1 18.8 28.2#



#92

Benzo(g,h,i)perylene

Concen: 13.870 ng

RT: 17.451 min Scan# 2611

Delta R.T. 0.000 min

Lab File: BF142020.D

Acq: 20 Mar 2025 19:35

Tgt Ion:276 Resp: 158731

Ion Ratio Lower Upper

276 100

277 24.7 18.7 28.1

138 17.9 15.8 23.8

