

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF032025\
 Data File : BF142016.D
 Acq On : 20 Mar 2025 17:36
 Operator : RC/JU
 Sample : Q1606-05
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT4534

Quant Time: Mar 20 18:10:22 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)

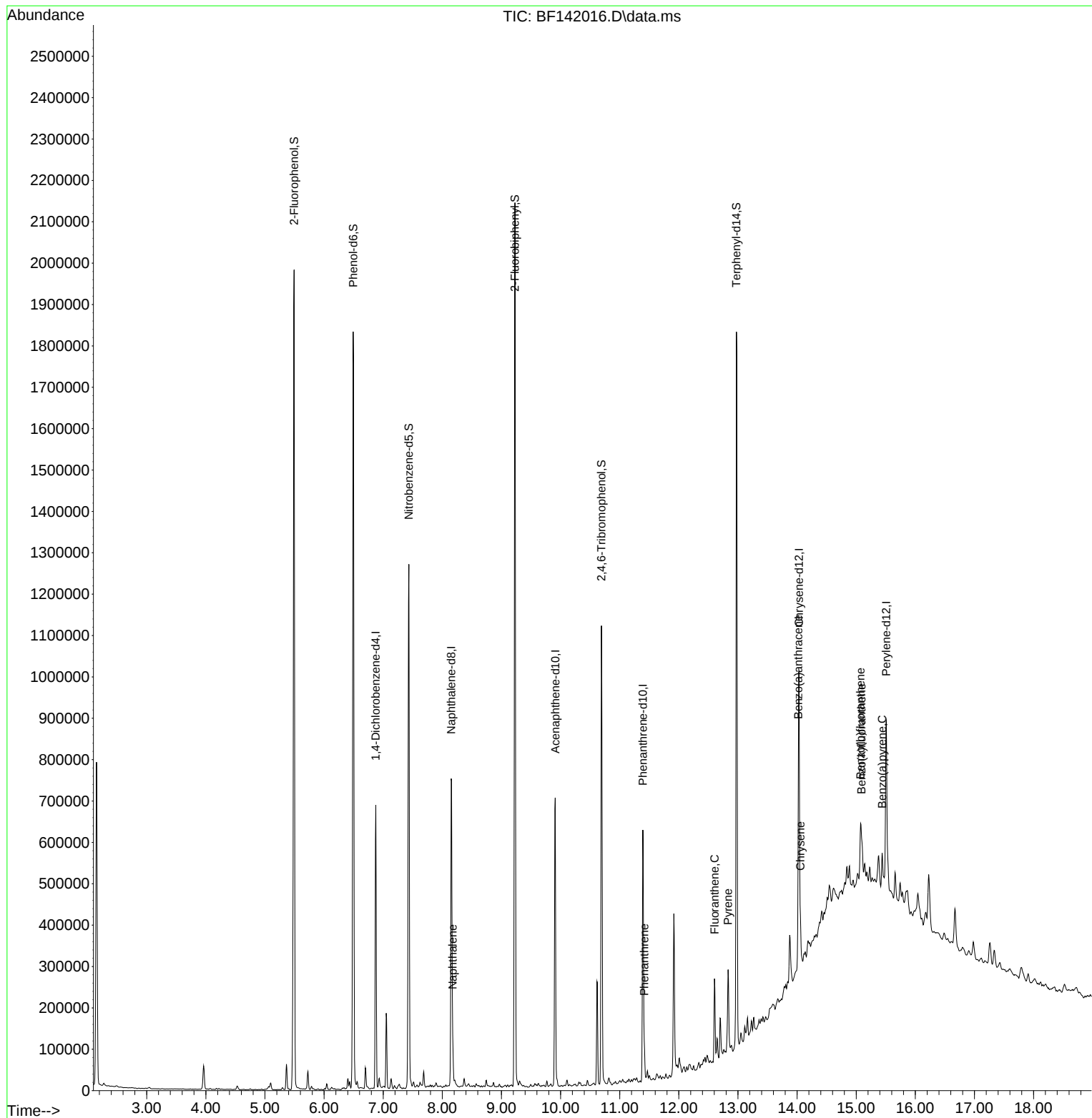
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	143523	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	501069	20.000	ng	-0.01
39) Acenaphthene-d10	9.910	164	215088	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	311662	20.000	ng	-0.01
76) Chrysene-d12	14.033	240	333529	20.000	ng	0.00
86) Perylene-d12	15.510	264	253079	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	768097	89.318	ng	0.00
7) Phenol-d6	6.492	99	893600	81.614	ng	-0.01
23) Nitrobenzene-d5	7.434	82	576105	64.703	ng	-0.01
42) 2,4,6-Tribromophenol	10.692	330	199330	73.050	ng	-0.01
45) 2-Fluorobiphenyl	9.228	172	918466	64.941	ng	-0.01
79) Terphenyl-d14	12.974	244	885113	39.235	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.175	128	54709	2.126	ng	98
71) Phenanthrene	11.416	178	42164	2.505	ng	99
75) Fluoranthene	12.604	202	113920	6.380	ng	99
78) Pyrene	12.833	202	110285	3.823	ng	98
81) Benzo(a)anthracene	14.021	228	85867	3.923	ng	95
83) Chrysene	14.057	228	65416m	3.297	ng	
88) Benzo(b)fluoranthene	15.074	252	85663m	4.939	ng	
89) Benzo(k)fluoranthene	15.092	252	29897m	2.014	ng	
90) Benzo(a)pyrene	15.439	252	54375	4.006	ng	# 82

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

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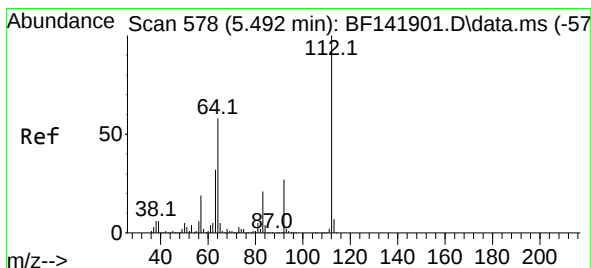
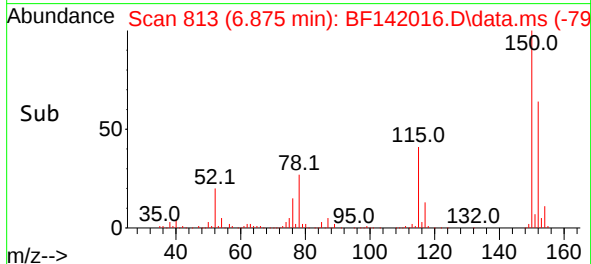
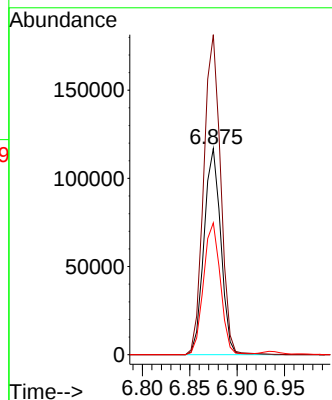
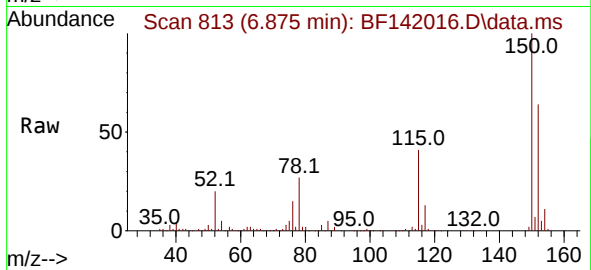




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 814
Delta R.T. -0.006 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

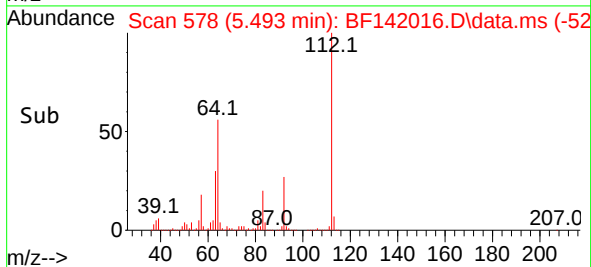
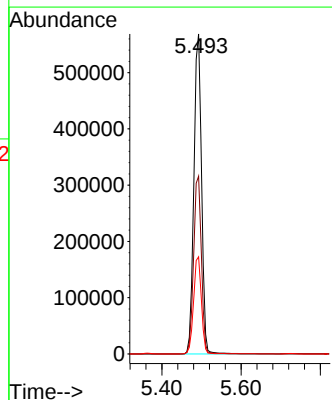
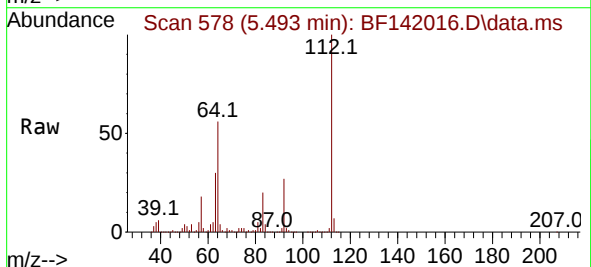
Instrument :
BNA_F
ClientSampleId :
RT4534

Tgt Ion:152 Resp: 143523
Ion Ratio Lower Upper
152 100
150 155.2 127.4 191.2
115 63.9 51.9 77.9



#5
2-Fluorophenol
Concen: 89.318 ng
RT: 5.493 min Scan# 578
Delta R.T. 0.000 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

Tgt Ion:112 Resp: 768097
Ion Ratio Lower Upper
112 100
64 55.6 46.5 69.7
63 30.4 25.4 38.2

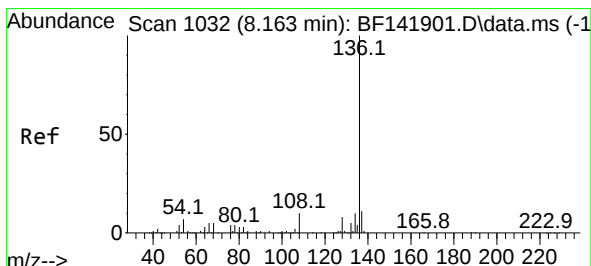
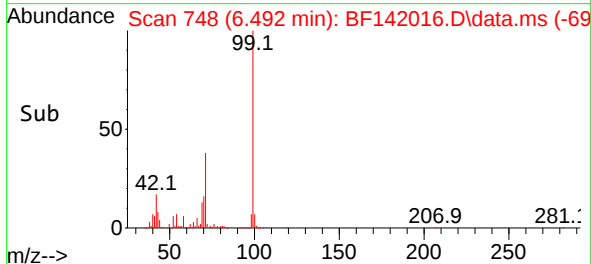
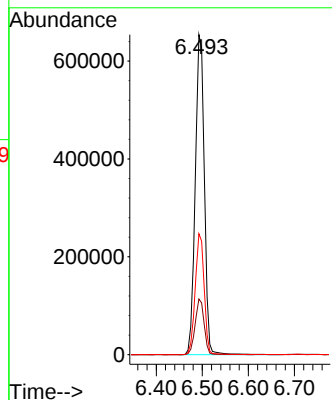
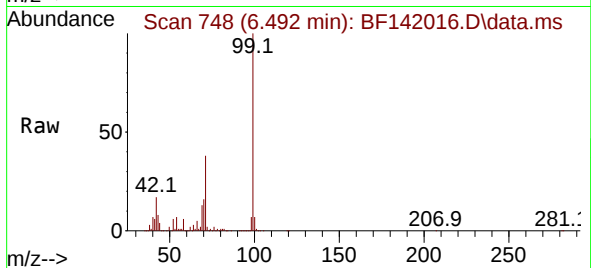




#7
Phenol-d6
Concen: 81.614 ng
RT: 6.492 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

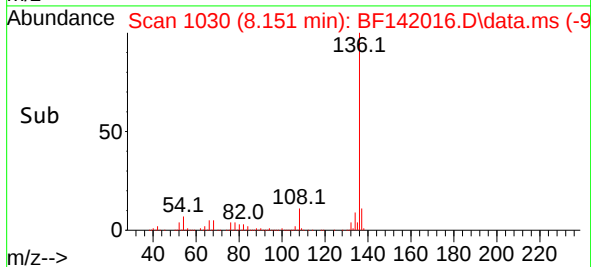
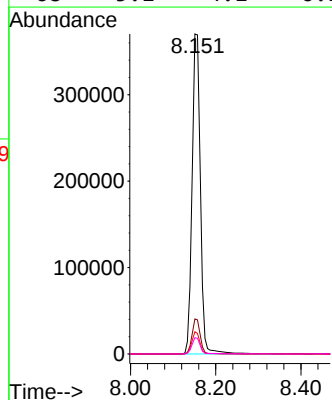
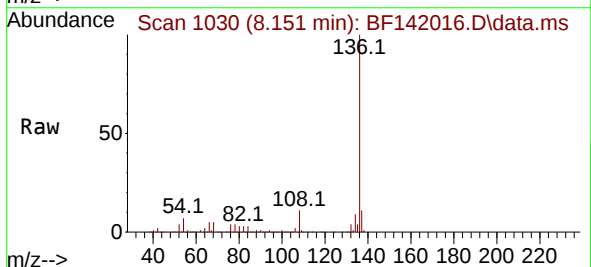
Instrument :
BNA_F
ClientSampleId :
RT4534

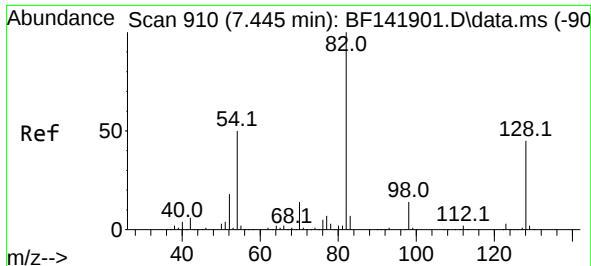
Tgt Ion: 99 Resp: 893600
Ion Ratio Lower Upper
99 100
42 17.4 14.6 21.8
71 37.8 30.8 46.2



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

Tgt Ion: 136 Resp: 501069
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 6.9 5.8 8.8
68 5.1 4.1 6.1

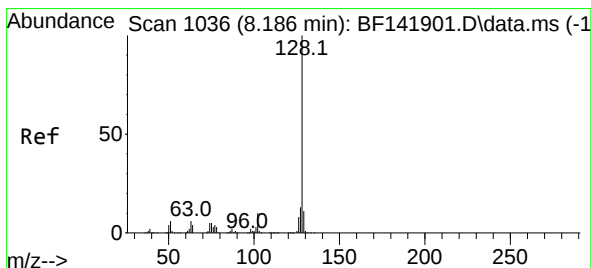
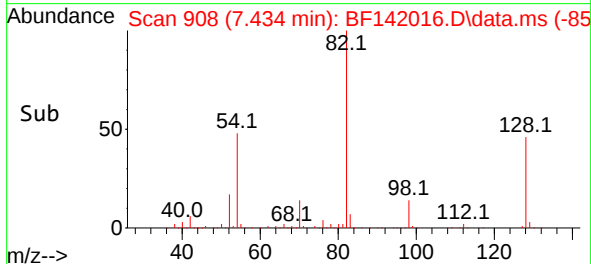
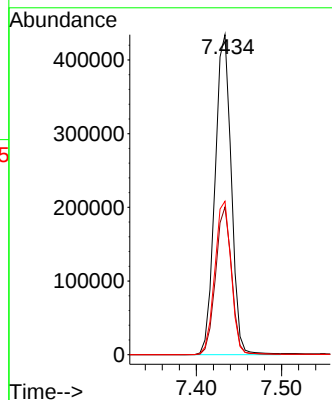
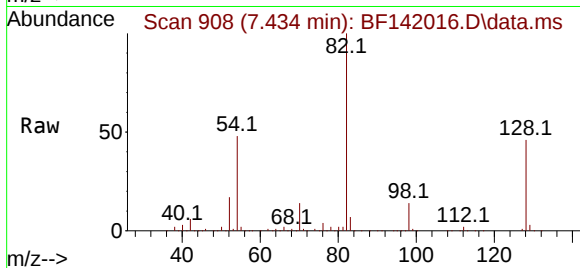




#23
Nitrobenzene-d5
Concen: 64.703 ng
RT: 7.434 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

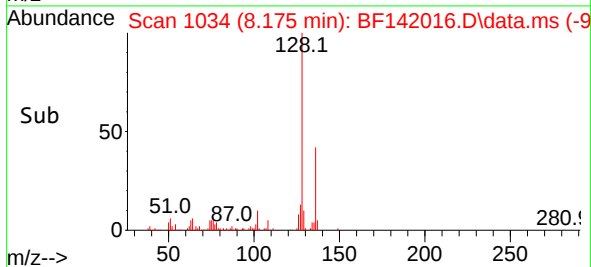
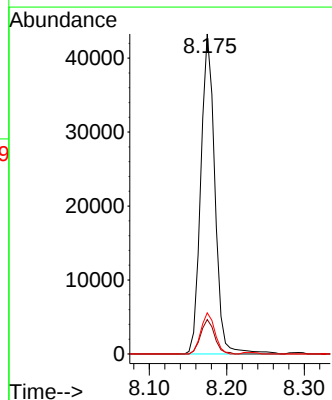
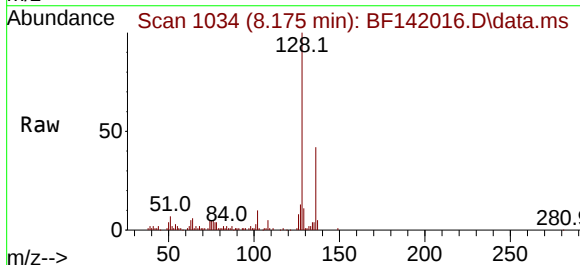
Instrument :
BNA_F
ClientSampleId :
RT4534

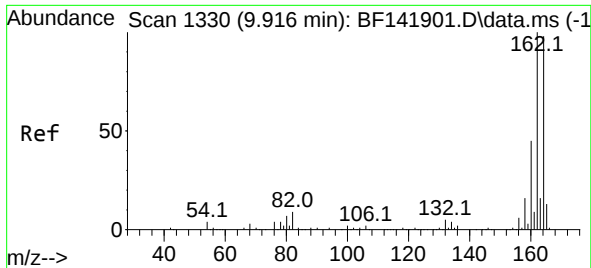
Tgt Ion: 82 Resp: 576105
Ion Ratio Lower Upper
82 100
128 46.1 36.0 54.0
54 47.9 39.6 59.4



#31
Naphthalene
Concen: 2.126 ng
RT: 8.175 min Scan# 1034
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

Tgt Ion: 128 Resp: 54709
Ion Ratio Lower Upper
128 100
129 10.8 9.0 13.6
127 12.8 10.8 16.2

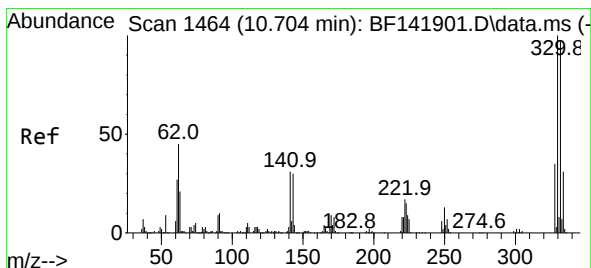
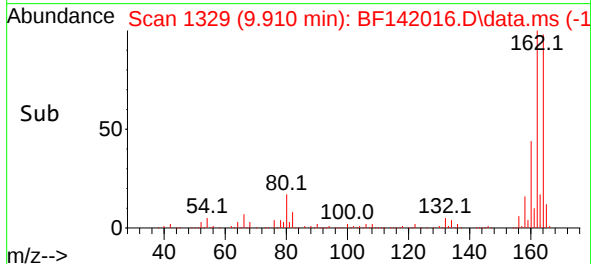
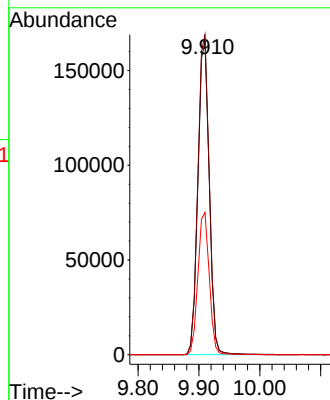
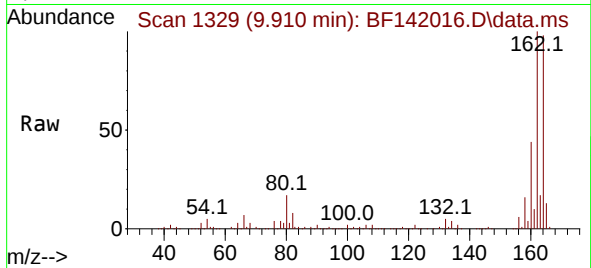




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

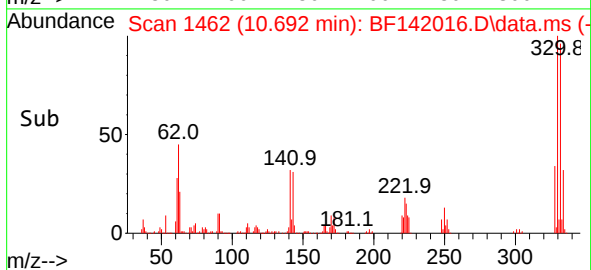
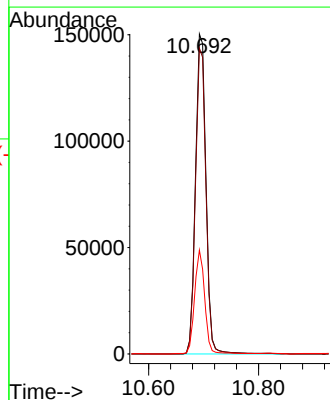
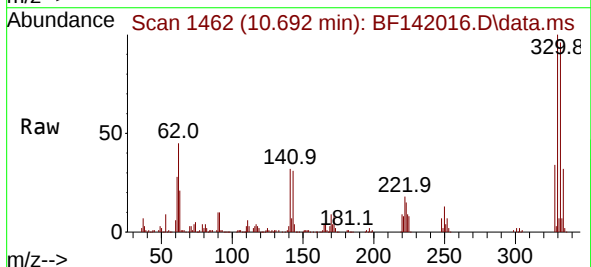
Instrument :
BNA_F
ClientSampleId :
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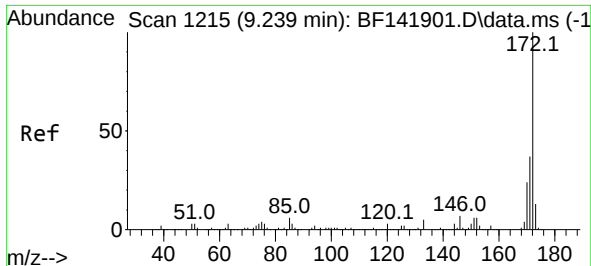
Tgt Ion:164 Resp: 215088
Ion Ratio Lower Upper
164 100
162 102.0 81.8 122.6
160 45.4 36.7 55.1



#42
2,4,6-Tribromophenol
Concen: 73.050 ng
RT: 10.692 min Scan# 1462
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

Tgt Ion:330 Resp: 199330
Ion Ratio Lower Upper
330 100
332 95.1 77.6 116.4
141 31.5 24.7 37.1

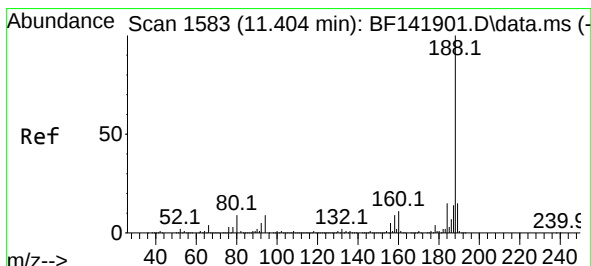
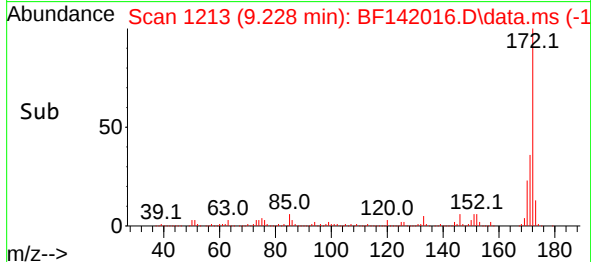
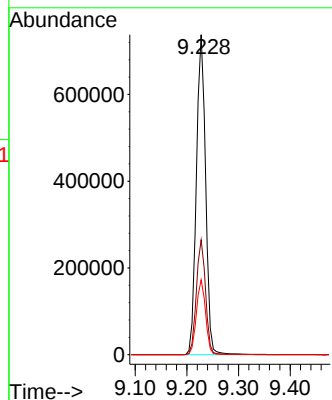
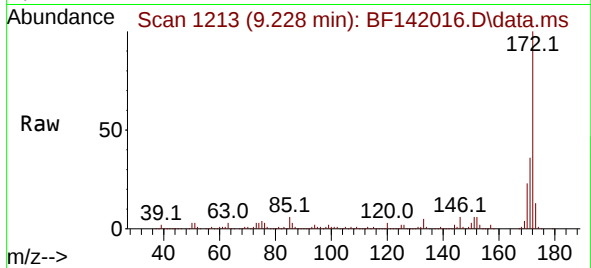




#45
2-Fluorobiphenyl
Concen: 64.941 ng
RT: 9.228 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

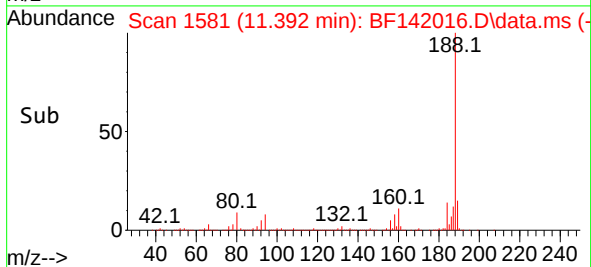
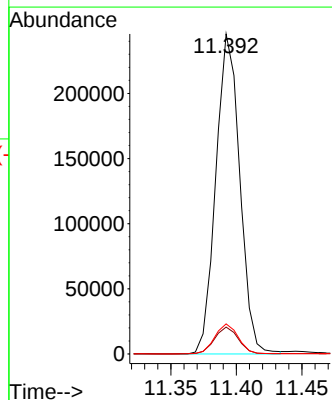
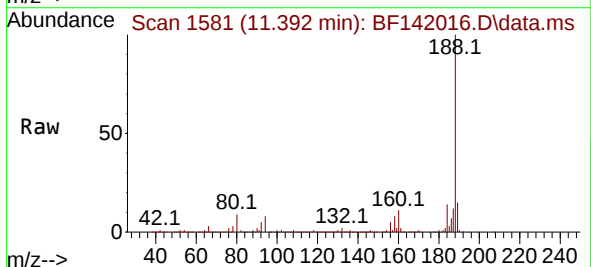
Instrument :
BNA_F
ClientSampleId :
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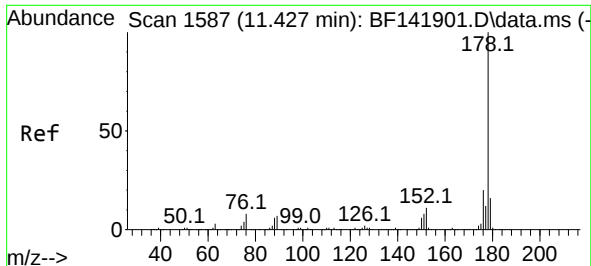
Tgt Ion:172 Resp: 918466
Ion Ratio Lower Upper
172 100
171 35.9 29.3 43.9
170 23.4 19.4 29.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

Tgt Ion:188 Resp: 311662
Ion Ratio Lower Upper
188 100
94 8.4 6.8 10.2
80 9.4 7.6 11.4

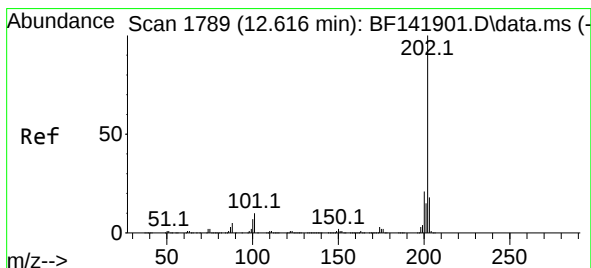
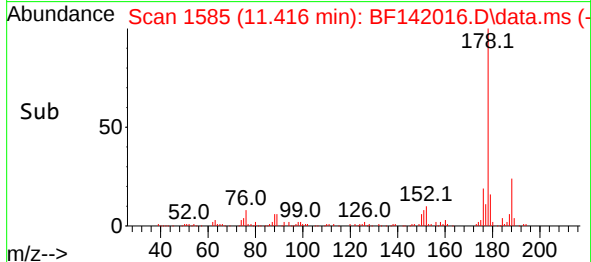
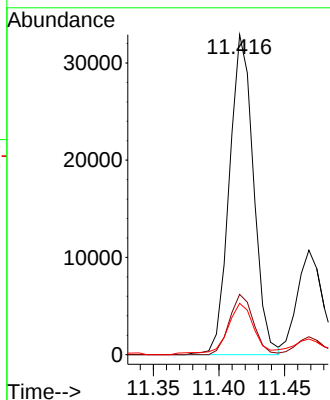
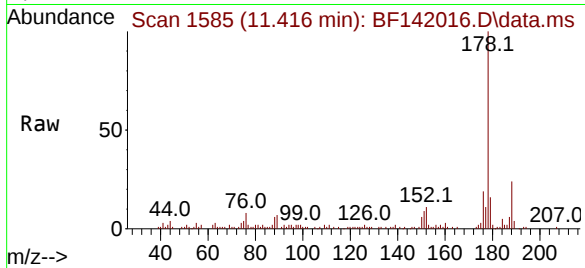




#71
Phenanthrene
Concen: 2.505 ng
RT: 11.416 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

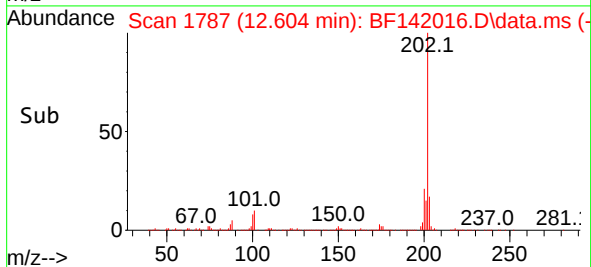
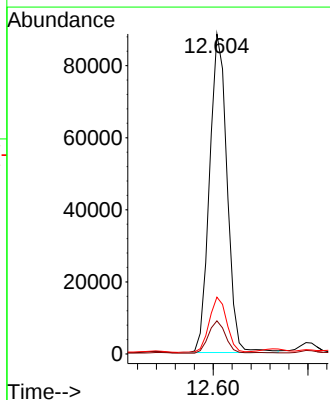
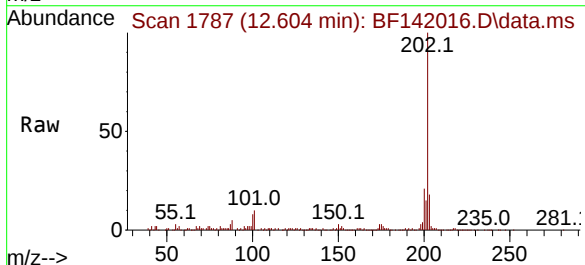
Instrument :
BNA_F
ClientSampleId :
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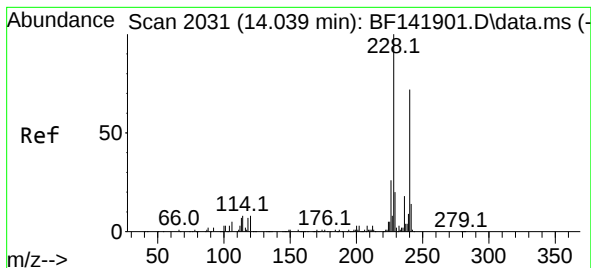
Tgt Ion:178 Resp: 42164
Ion Ratio Lower Upper
178 100
176 18.9 15.8 23.8
179 16.1 12.6 19.0



#75
Fluoranthene
Concen: 6.380 ng
RT: 12.604 min Scan# 1787
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

Tgt Ion:202 Resp: 113920
Ion Ratio Lower Upper
202 100
101 10.4 0.0 29.7
203 17.8 0.0 37.8





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.033 min Scan# 2031

Delta R.T. -0.006 min

Lab File: BF142016.D

Acq: 20 Mar 2025 17:36

Instrument :

BNA_F

ClientSampleId :

RT4534

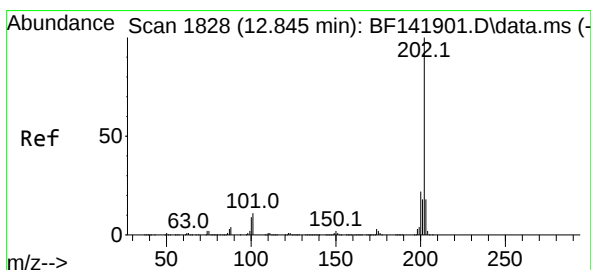
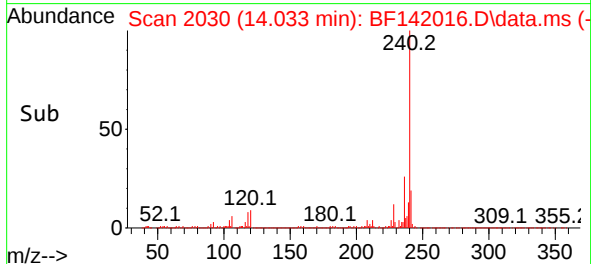
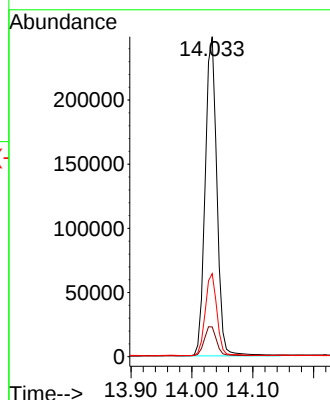
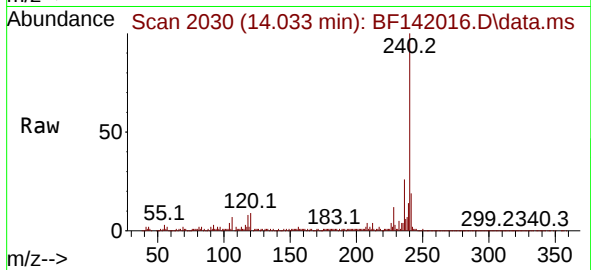
Tgt Ion:240 Resp: 333529

Ion Ratio Lower Upper

240 100

120 9.3 8.4 12.6

236 25.9 20.5 30.7



#78

Pyrene

Concen: 3.823 ng

RT: 12.833 min Scan# 1826

Delta R.T. -0.012 min

Lab File: BF142016.D

Acq: 20 Mar 2025 17:36

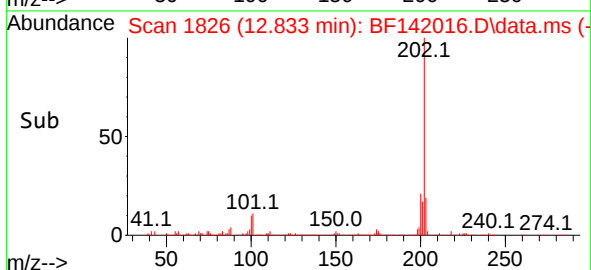
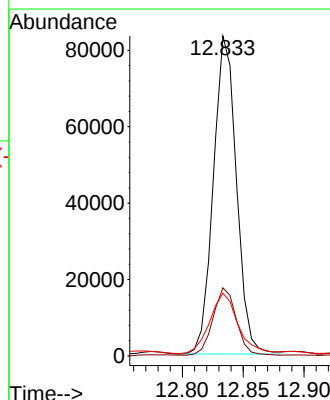
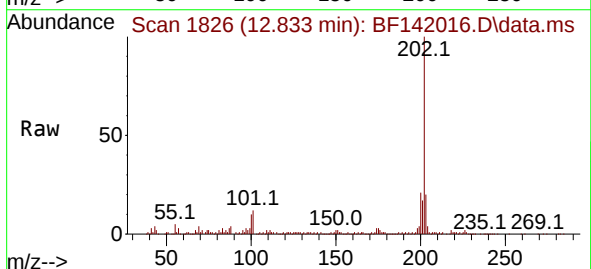
Tgt Ion:202 Resp: 110285

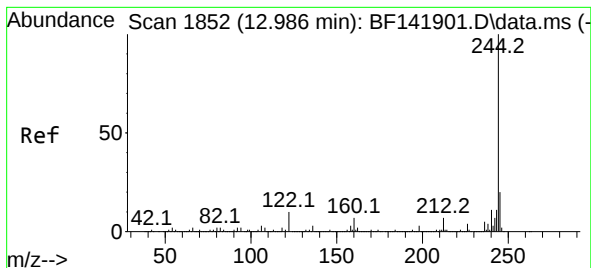
Ion Ratio Lower Upper

202 100

200 21.3 17.3 25.9

203 19.6 14.4 21.6





#79

Terphenyl-d14

Concen: 39.235 ng

RT: 12.974 min Scan# 1850

Delta R.T. -0.012 min

Lab File: BF142016.D

Acq: 20 Mar 2025 17:36

Instrument :

BNA_F

ClientSampleId :

RT4534

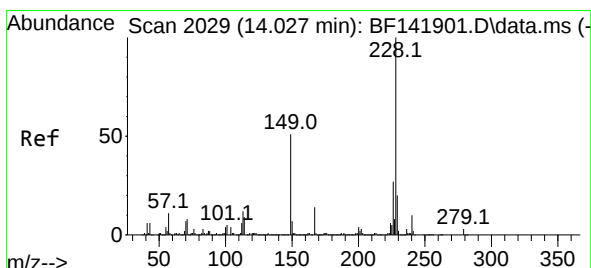
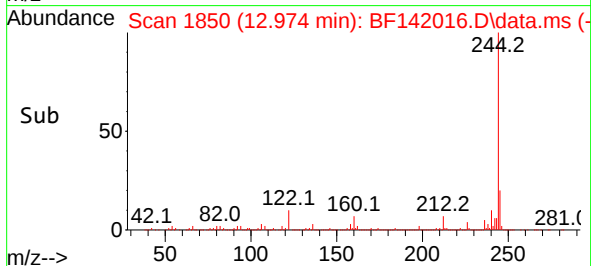
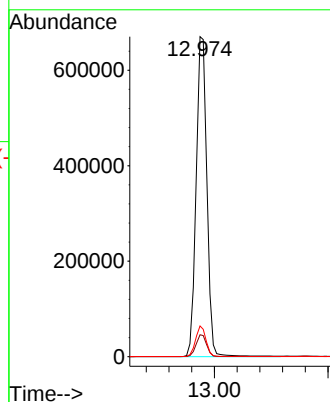
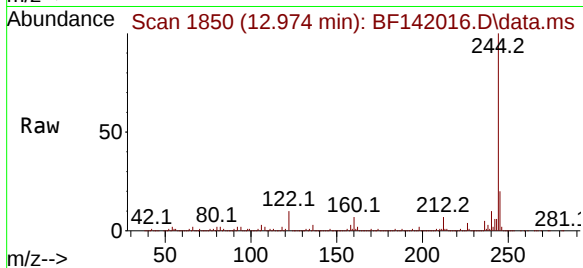
Tgt Ion:244 Resp: 885113

Ion Ratio Lower Upper

244 100

212 6.9 6.0 9.0

122 9.6 7.7 11.5



#81

Benzo(a)anthracene

Concen: 3.923 ng

RT: 14.021 min Scan# 2028

Delta R.T. -0.006 min

Lab File: BF142016.D

Acq: 20 Mar 2025 17:36

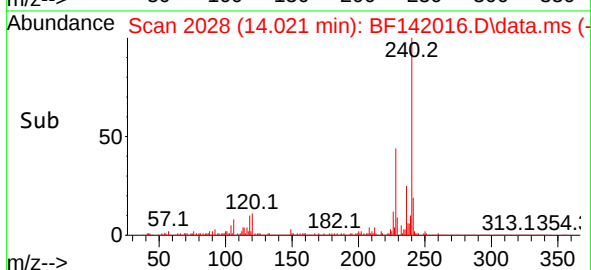
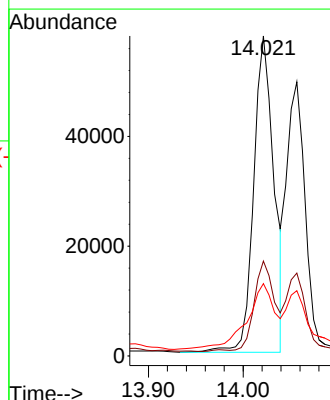
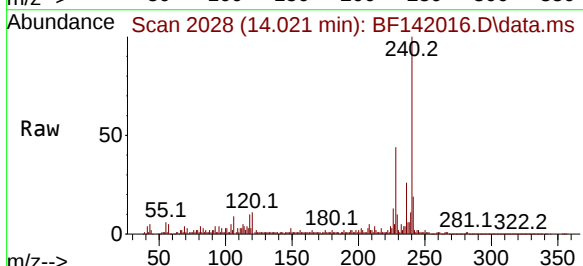
Tgt Ion:228 Resp: 85867

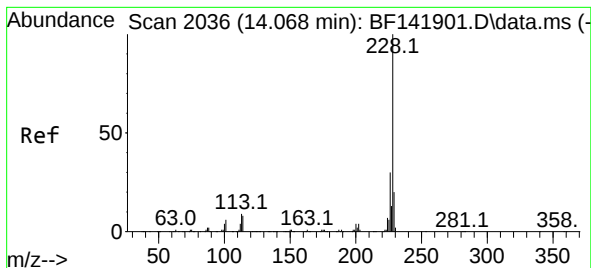
Ion Ratio Lower Upper

228 100

226 29.7 21.8 32.8

229 22.6 16.0 24.0





#83

Chrysene

Concen: 3.297 ng m

RT: 14.057 min Scan# 2036

Delta R.T. -0.012 min

Lab File: BF142016.D

Acq: 20 Mar 2025 17:36

Instrument :

BNA_F

ClientSampleId :

RT4534

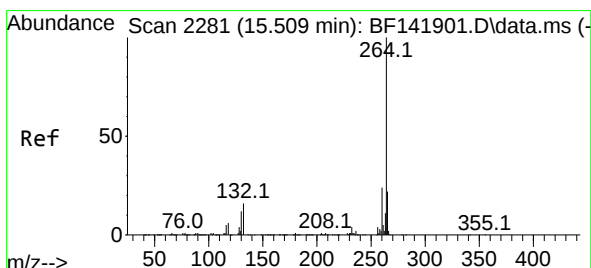
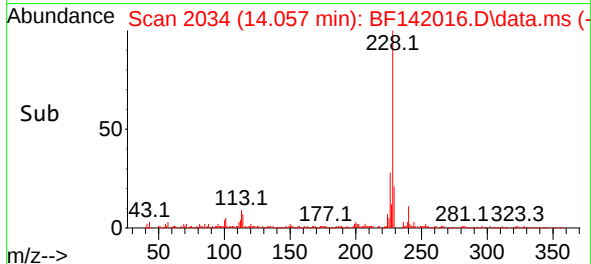
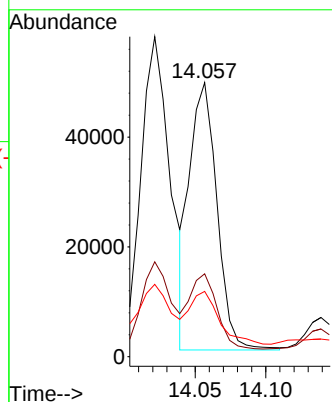
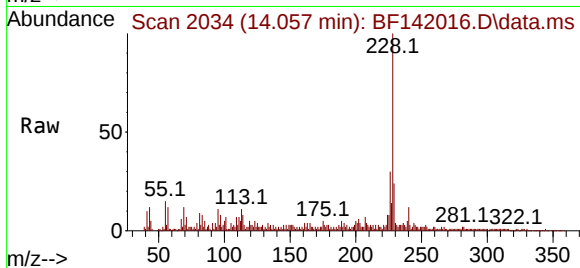
Tgt Ion:228 Resp: 65416

Ion Ratio Lower Upper

228 100

226 30.3 24.1 36.1

229 23.8 15.7 23.5#



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.510 min Scan# 2281

Delta R.T. 0.000 min

Lab File: BF142016.D

Acq: 20 Mar 2025 17:36

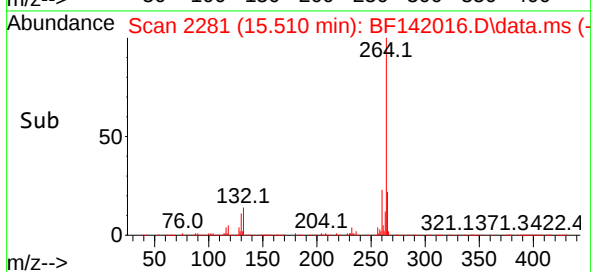
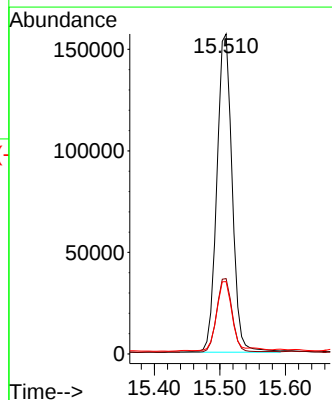
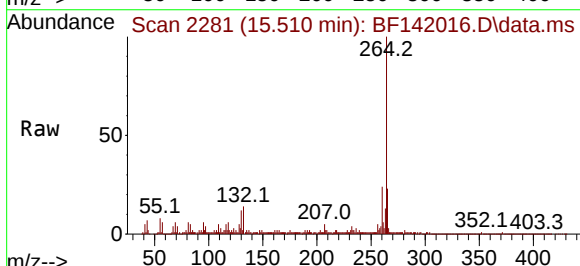
Tgt Ion:264 Resp: 253079

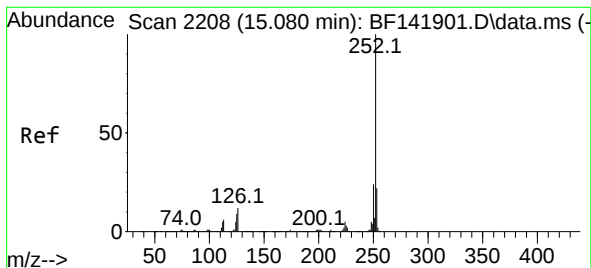
Ion Ratio Lower Upper

264 100

260 23.6 19.1 28.7

265 22.6 17.5 26.3





#88

Benzo(b)fluoranthene

Concen: 4.939 ng m

RT: 15.074 min Scan# 2110

Delta R.T. -0.006 min

Lab File: BF142016.D

Acq: 20 Mar 2025 17:36

Instrument :

BNA_F

ClientSampleId :

RT4534

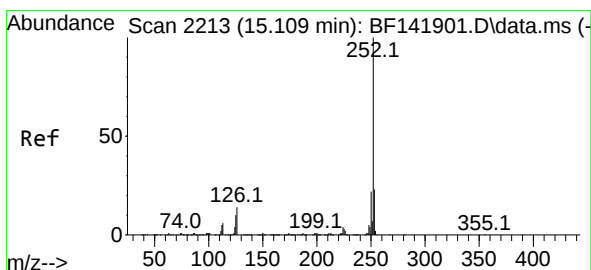
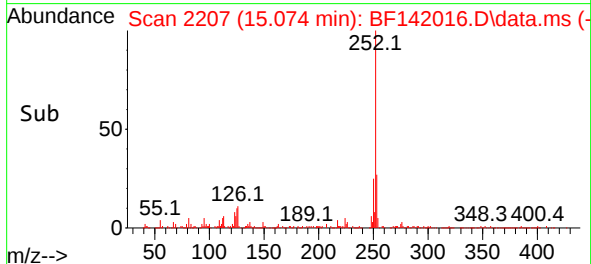
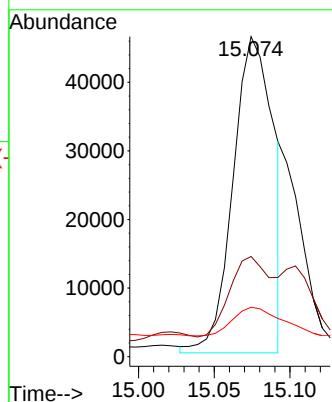
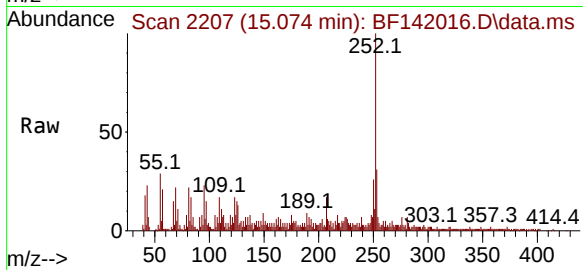
Tgt Ion:252 Resp: 85663

Ion Ratio Lower Upper

252 100

253 31.3 17.5 26.3#

125 15.5 7.0 10.4#



#89

Benzo(k)fluoranthene

Concen: 2.014 ng m

RT: 15.092 min Scan# 2210

Delta R.T. -0.018 min

Lab File: BF142016.D

Acq: 20 Mar 2025 17:36

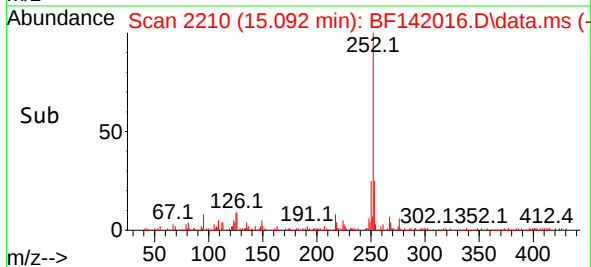
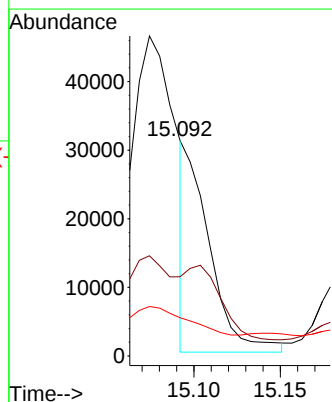
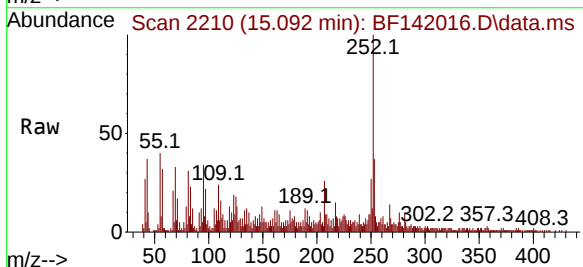
Tgt Ion:252 Resp: 29897

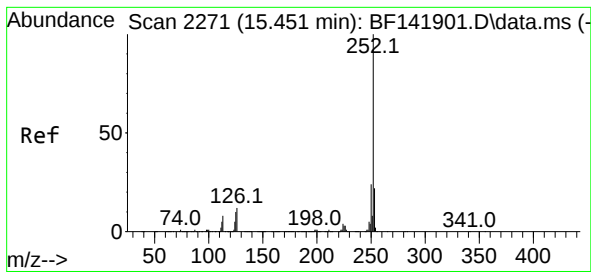
Ion Ratio Lower Upper

252 100

253 36.8 17.7 26.5#

125 17.8 7.2 10.8#





#90
Benzo(a)pyrene
Concen: 4.006 ng
RT: 15.439 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF142016.D
Acq: 20 Mar 2025 17:36

Instrument :
BNA_F
ClientSampleId :
RT4534

Tgt Ion:252 Resp: 54375
Ion Ratio Lower Upper
252 100
253 28.5 17.4 26.0#
125 18.9 7.8 11.8#

