

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF103018\
 Data File : BF110303.D
 Acq On : 30 Oct 2018 15:20
 Operator : JU/SJ
 Sample : J5724-04
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

Quant Time: Oct 31 04:30:53 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 29 17:29:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	114922	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	470433	20.00	ng	0.00
39) Acenaphthene-d10	10.01	164	209426	20.00	ng	0.00
64) Phenanthrene-d10	11.51	188	339949	20.00	ng	0.00
76) Chrysene-d12	14.16	240	212510	20.00	ng	0.00
87) Perylene-d12	15.70	264	191630	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.60	112	621301	88.04	ng	0.01
7) Phenol-d6	6.59	99	786646	87.15	ng	0.00
23) Nitrobenzene-d5	7.53	82	491910	62.02	ng	0.00
42) 2,4,6-Tribromophenol	10.80	330	163549	78.84	ng	0.00
45) 2-Fluorobiphenyl	9.33	172	873846	65.52	ng	0.00
79) Terphenyl-d14	13.09	244	595069	58.24	ng	0.00

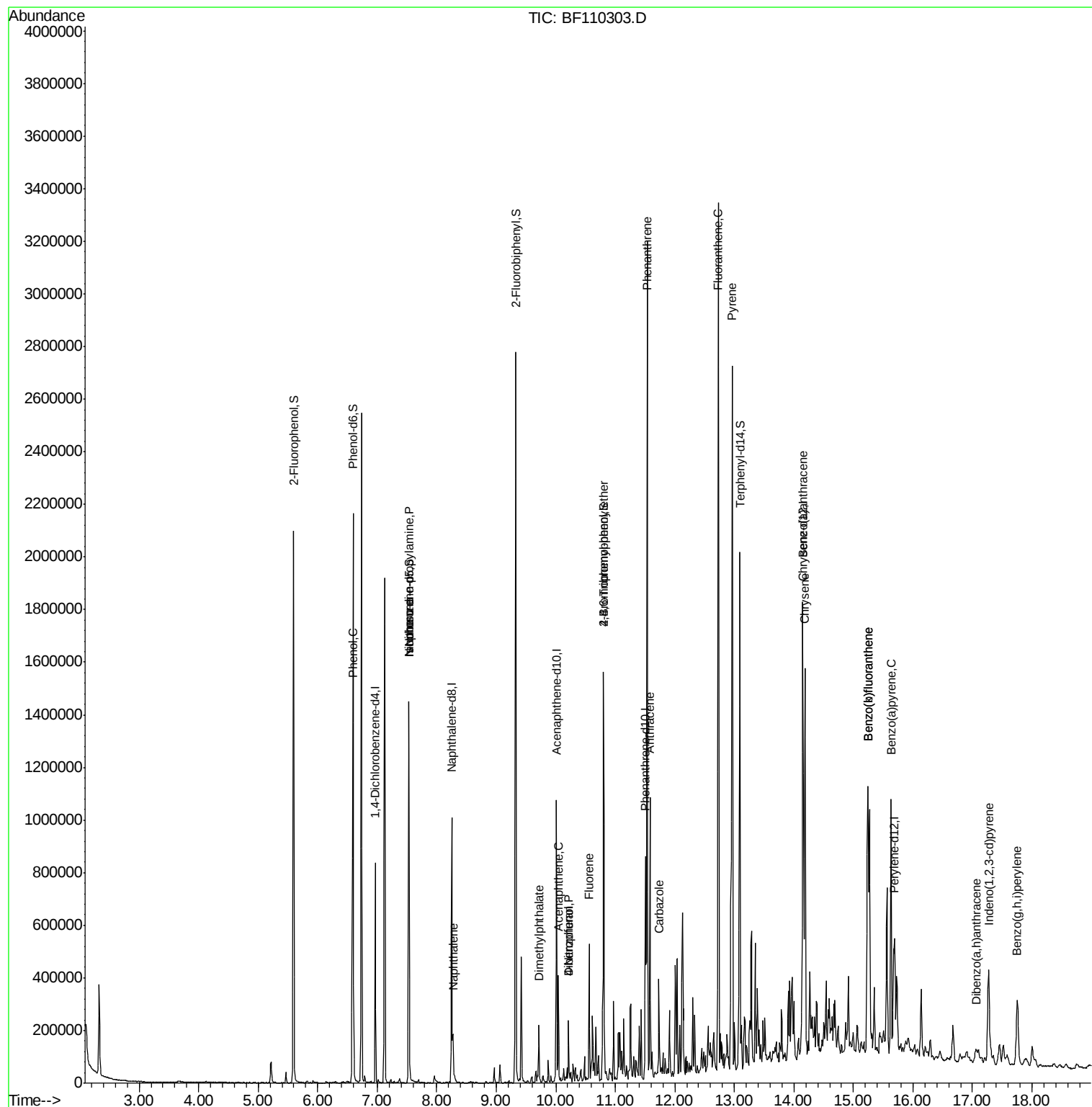
Target Compounds				Qvalue		
10) Phenol	6.60	94	58914	6.106	ng	# 64
19) n-Nitroso-di-n-propylamine	7.53	70	66803	11.536	ng	# 79
25) Isophorone	7.53	82	491903	36.384	ng	# 67
31) Naphthalene	8.27	128	75715	3.492	ng	98
50) Dimethylphthalate	9.72	163	79851	5.165	ng	100
52) Acenaphthene	10.05	154	80591	6.071	ng	98
55) Dibenzofuran	10.22	168	83779	4.508	ng	97
56) 4-Nitrophenol	10.22	139	33100	11.294	ng	# 7
58) Fluorene	10.56	166	139075	10.055	ng	99
67) 4-Bromophenyl-phenylether	10.80	248	11132	3.019	ng	# 1
71) Phenanthrene	11.54	178	1233498	69.345	ng	99
72) Anthracene	11.59	178	394303	22.115	ng	98
73) Carbazole	11.74	167	147415	8.468	ng	98
75) Fluoranthene	12.73	202	1517557	84.064	ng	98
78) Pyrene	12.97	202	1279028	83.953	ng	98
81) Benzo(a)anthracene	14.15	228	656630	52.104	ng	98
83) Chrysene	14.19	228	535698	44.754	ng	97
86) Indeno(1,2,3-cd)pyrene	17.27	276	231332	23.296	ng	99
88) Benzo(b)fluoranthene	15.24	252	866782	78.329	ng	98
89) Benzo(k)fluoranthene	15.24	252	866782	79.675	ng	# 97
90) Benzo(a)pyrene	15.63	252	458393	45.018	ng	99
91) Dibenzo(a,h)anthracene	17.06	278	39560	4.503	ng	93
92) Benzo(g,h,i)perylene	17.75	276	213480	24.658	ng	99

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

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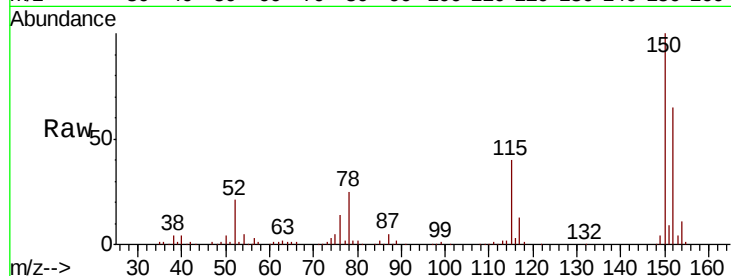




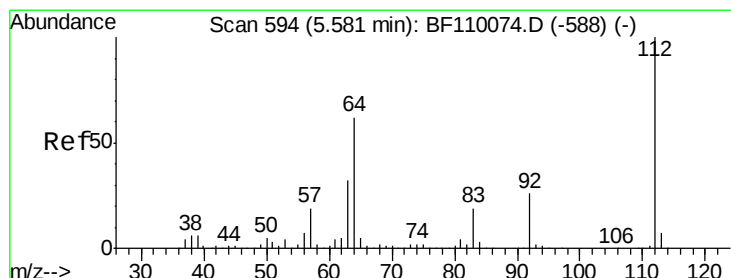
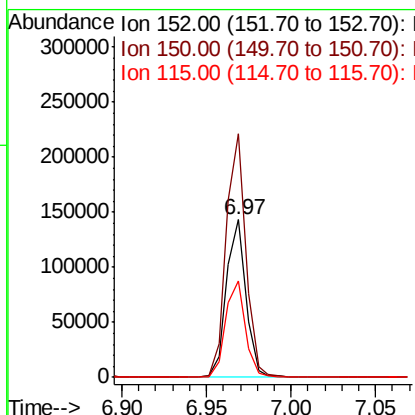
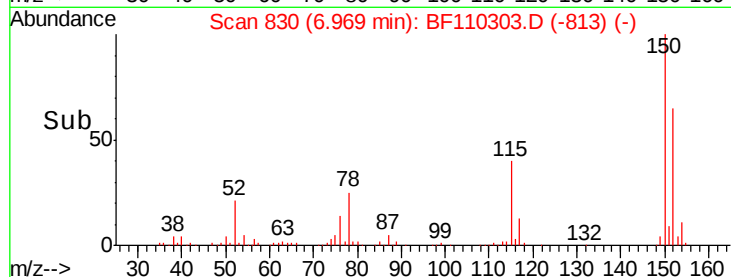
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 830
 Delta R.T. 0.00 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

Tgt Ion:152 Resp: 114922
 Ion Ratio Lower Upper
 152 100
 150 154.8 122.7 184.1
 115 61.6 49.1 73.7

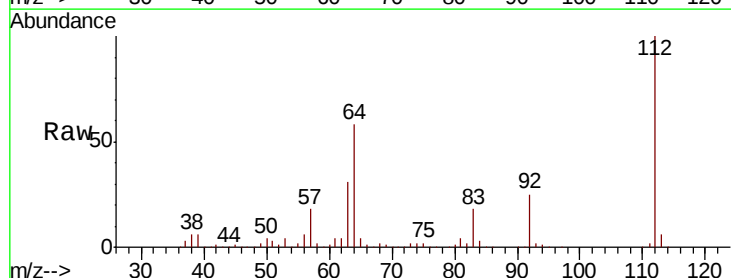


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

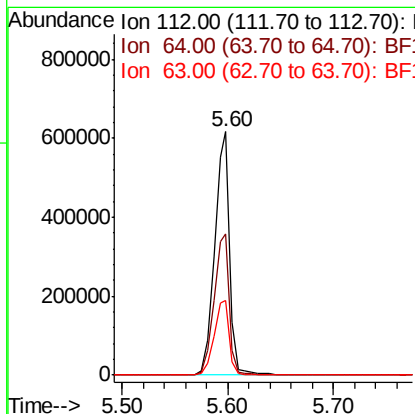
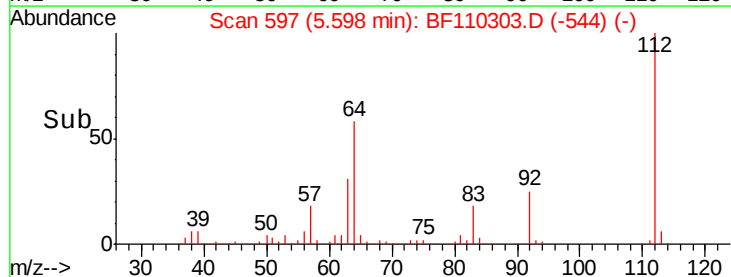


#5
 2-Fluorophenol
 Concen: 88.039 ng
 RT: 5.60 min Scan# 597
 Delta R.T. 0.01 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Tgt Ion:112 Resp: 621301
 Ion Ratio Lower Upper
 112 100
 64 57.8 44.1 66.1
 63 30.8 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 87.147 ng

RT: 6.59 min Scan# 766

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

ClientSampleId :

RED-SHALE

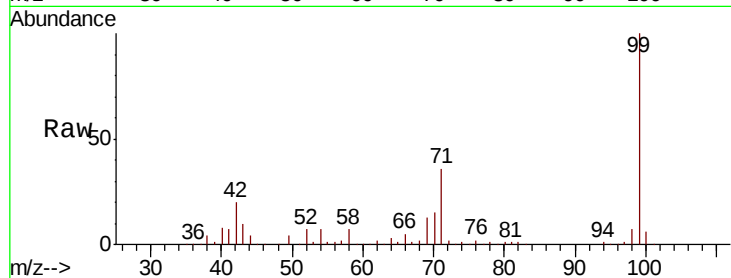
Tgt Ion: 99 Resp: 786646

Ion Ratio Lower Upper

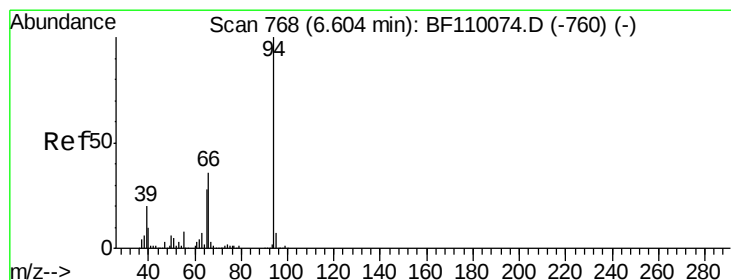
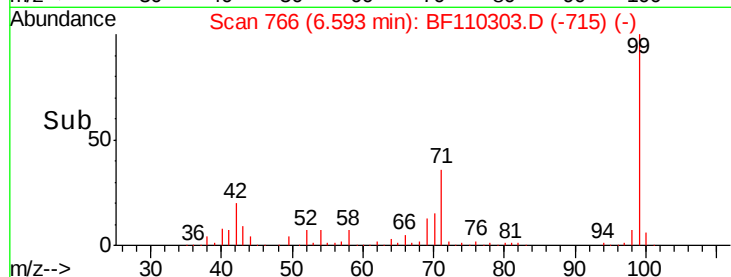
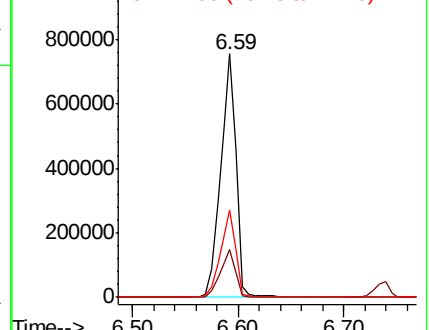
99 100

42 19.6 15.8 23.6

71 35.9 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#10

Phenol

Concen: 6.106 ng

RT: 6.60 min Scan# 768

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

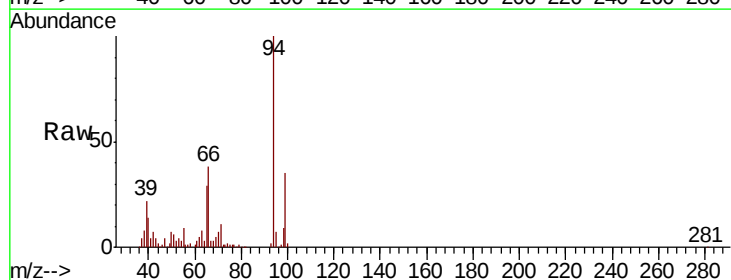
Tgt Ion: 94 Resp: 58914

Ion Ratio Lower Upper

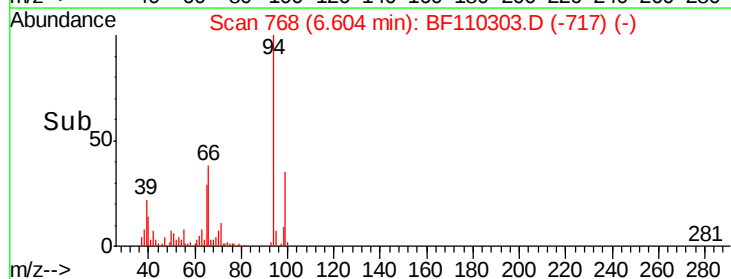
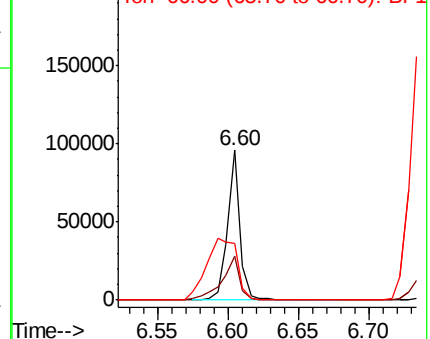
94 100

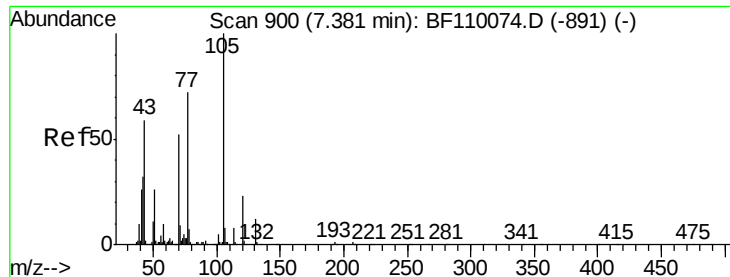
65 29.1 25.3 65.3

66 38.2 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

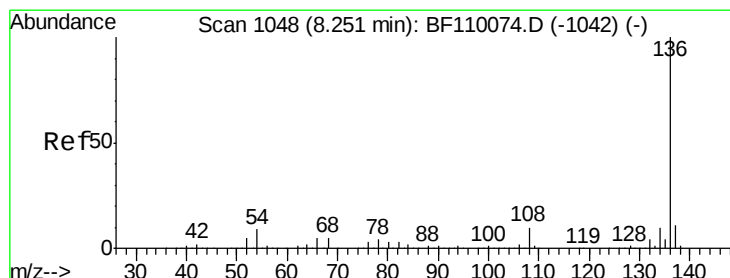
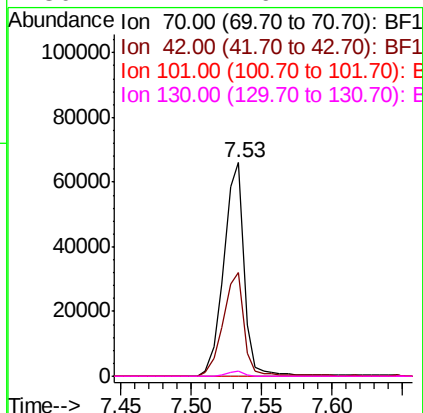
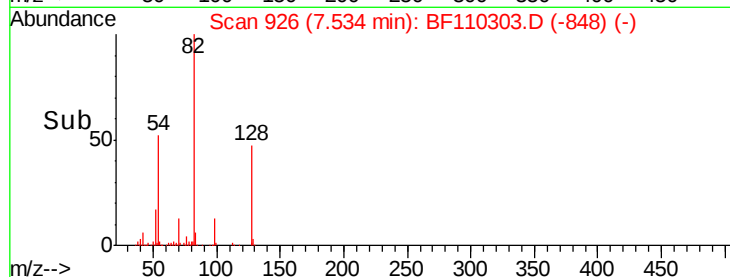
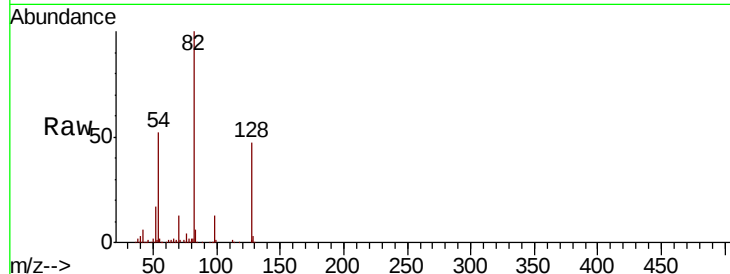




#19
n-Nitroso-di-n-propylamine
Concen: 11.536 ng
RT: 7.53 min Scan# 926
Delta R.T. 0.16 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

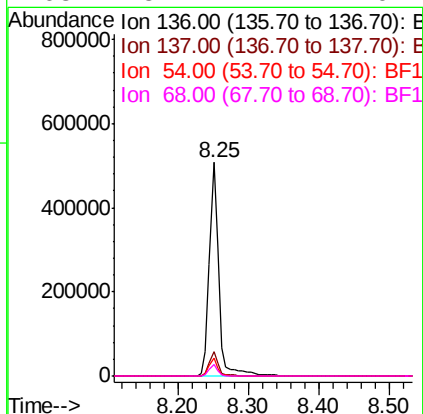
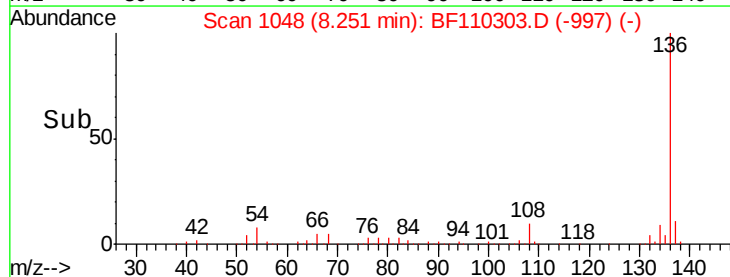
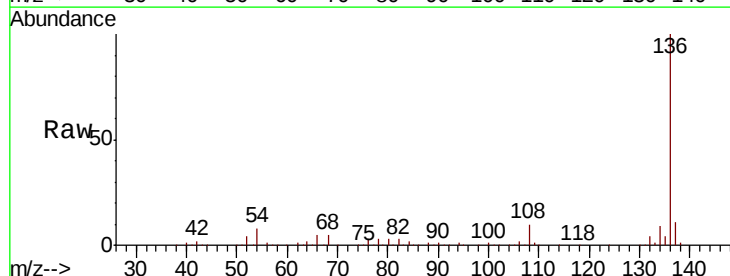
Instrument :
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RED-SHALE

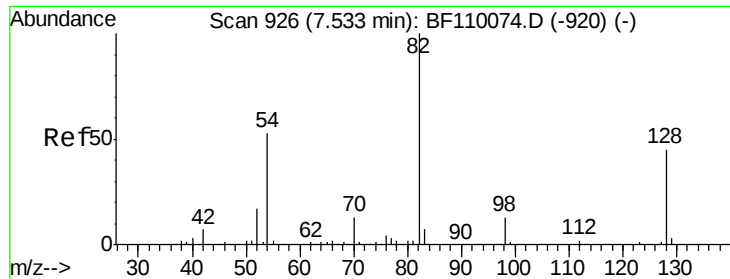
Tgt Ion: 70 Resp: 66803
Ion Ratio Lower Upper
70 100
42 48.3 47.4 71.2
101 0.0 7.3 10.9#
130 2.4 16.2 24.2#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion: 136 Resp: 470433
Ion Ratio Lower Upper
136 100
137 11.2 8.8 13.2
54 8.2 5.4 8.2#
68 5.2 4.2 6.2

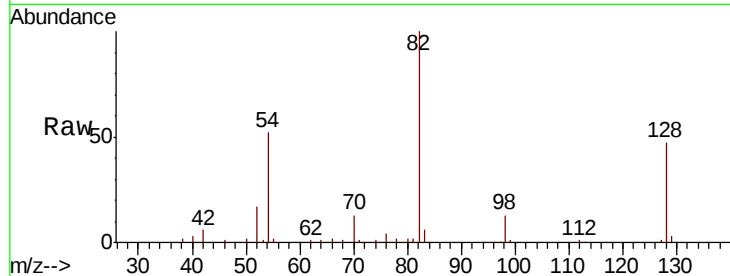




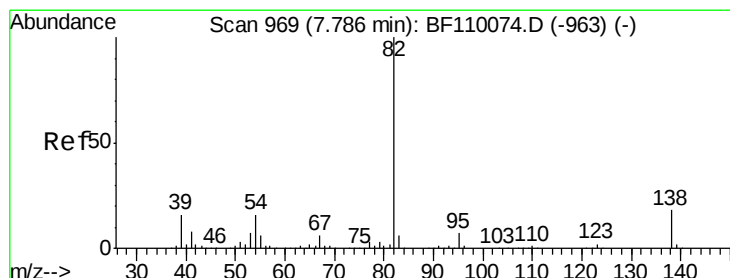
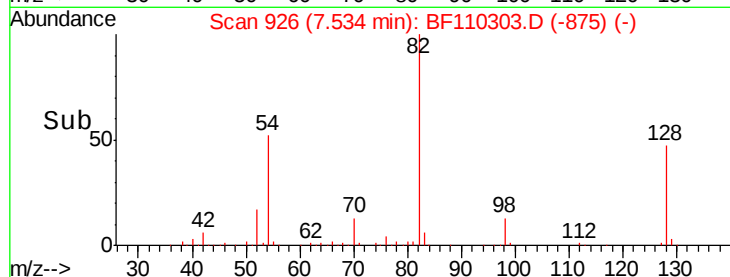
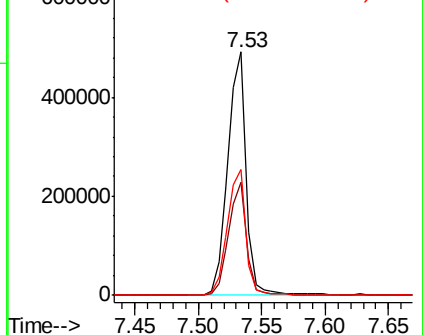
#23
Nitrobenzene-d5
Concen: 62.021 ng
RT: 7.53 min Scan# 926
Delta R.T. 0.00 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tgt Ion: 82 Resp: 491910
Ion Ratio Lower Upper
82 100
128 46.7 34.2 51.2
54 51.6 38.6 58.0

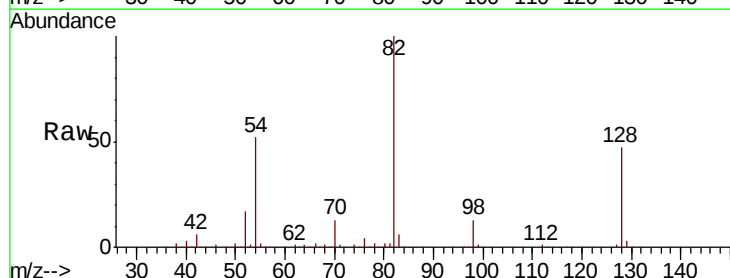


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

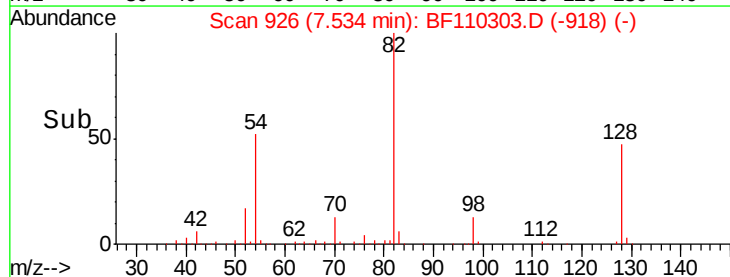
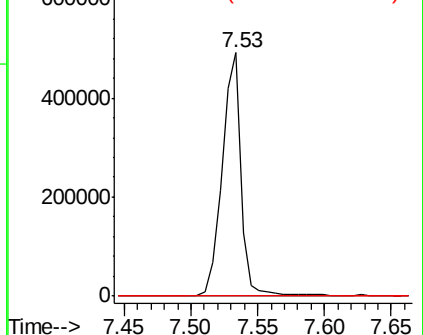


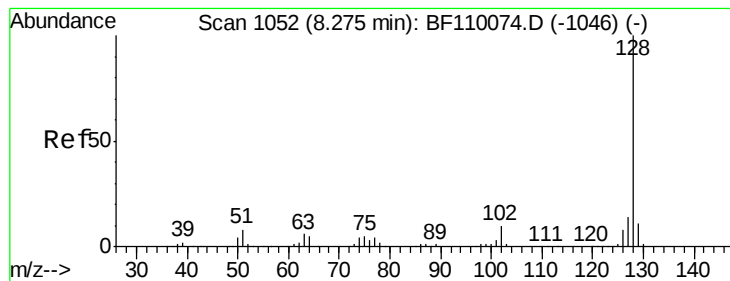
#25
Isophorone
Concen: 36.384 ng
RT: 7.53 min Scan# 926
Delta R.T. -0.25 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion: 82 Resp: 491903
Ion Ratio Lower Upper
82 100
95 0.0 5.7 8.5#
138 0.0 13.2 19.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1





#31

Naphthalene

Concen: 3.492 ng

RT: 8.27 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

ClientSampleId :

RED-SHALE

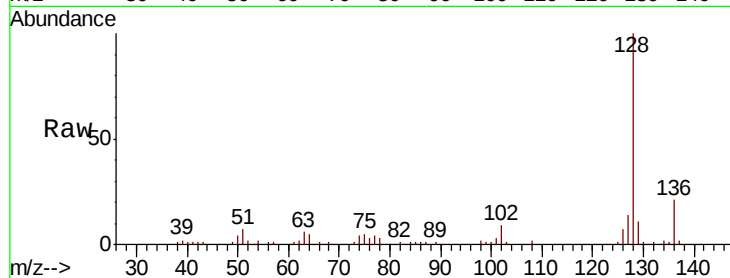
Tgt Ion:128 Resp: 75715

Ion Ratio Lower Upper

128 100

129 11.4 8.8 13.2

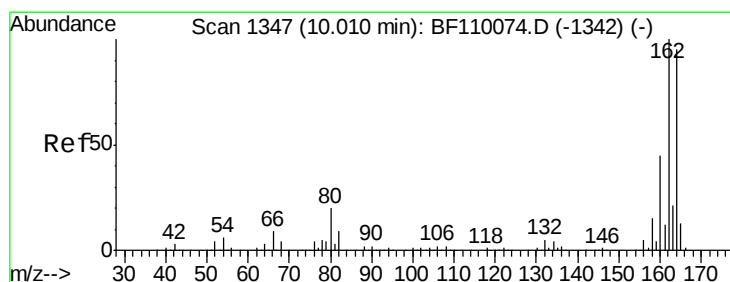
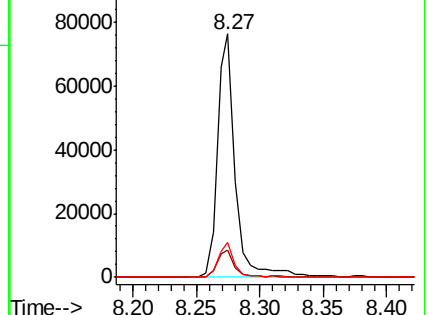
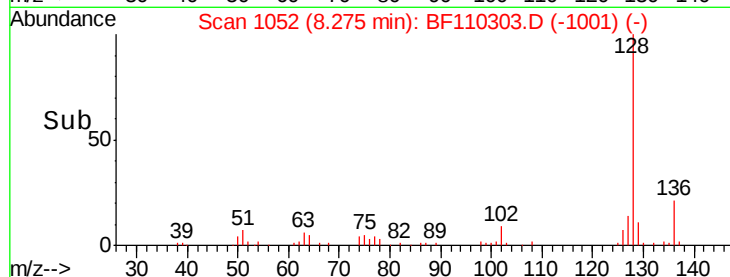
127 14.5 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.01 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

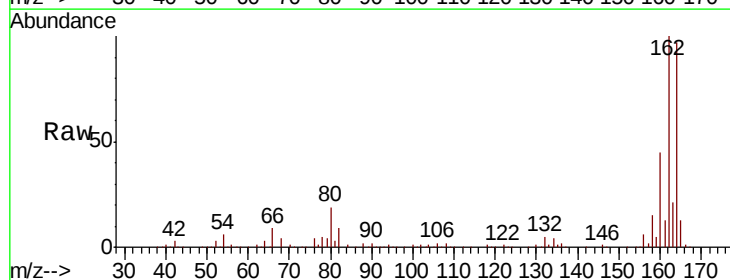
Tgt Ion:164 Resp: 209426

Ion Ratio Lower Upper

164 100

162 103.3 83.0 124.6

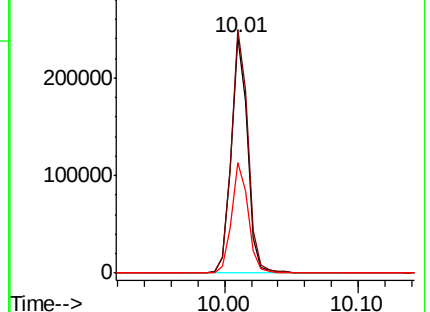
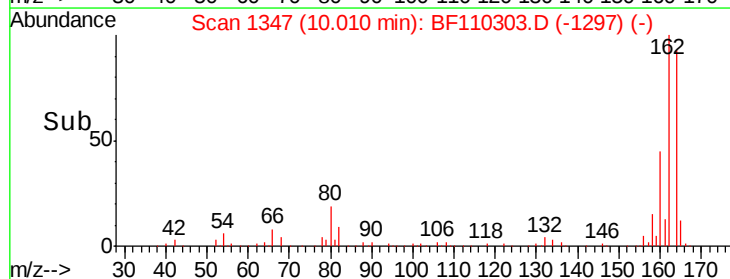
160 46.7 37.0 55.6

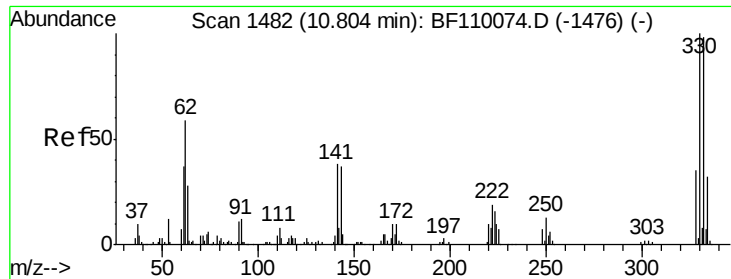


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

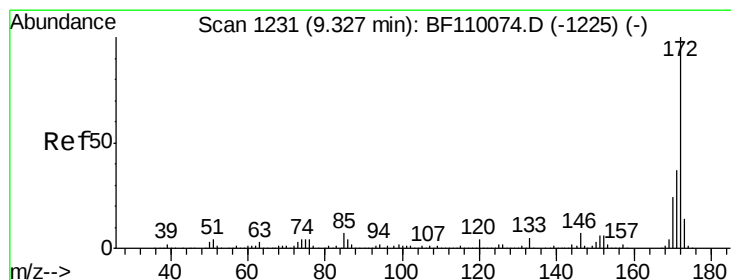
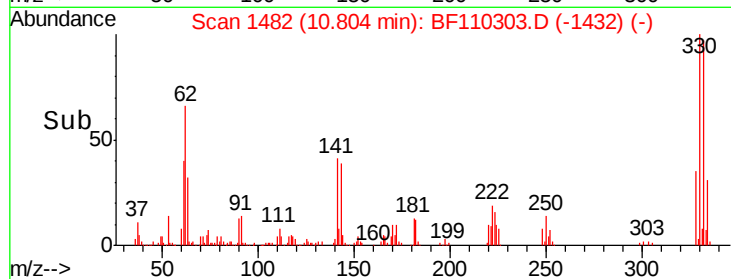
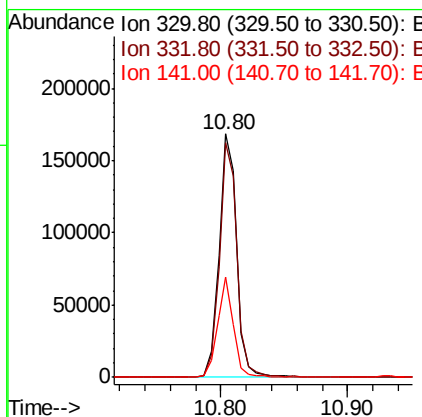
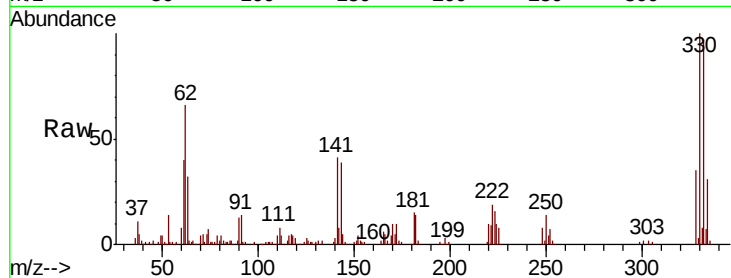




#42
 2,4,6-Tribromophenol
 Concen: 78.838 ng
 RT: 10.80 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

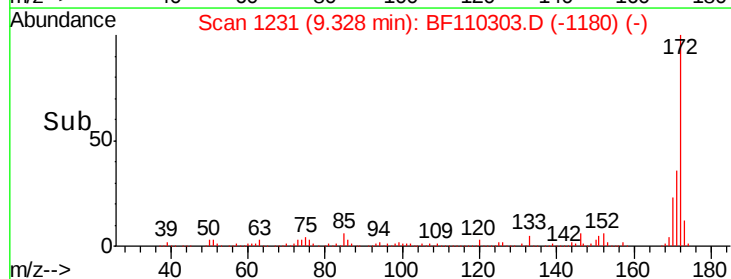
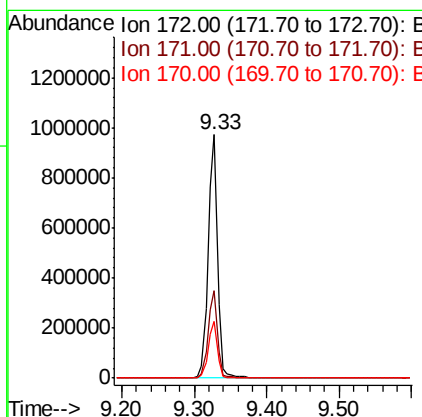
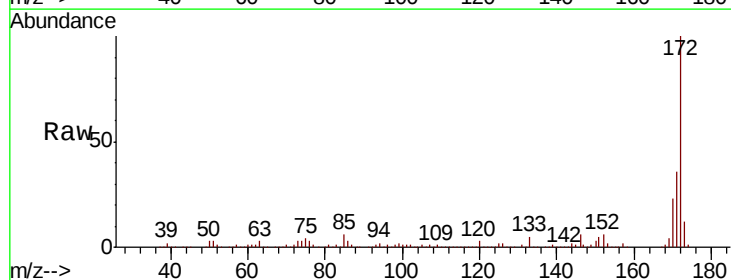
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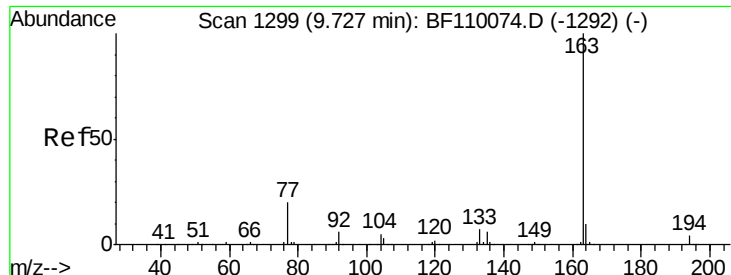
Tgt Ion:330 Resp: 163549
 Ion Ratio Lower Upper
 330 100
 332 96.2 77.1 115.7
 141 37.9 27.0 40.4



#45
 2-Fluorobiphenyl
 Concen: 65.520 ng
 RT: 9.33 min Scan# 1231
 Delta R.T. 0.00 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Tgt Ion:172 Resp: 873846
 Ion Ratio Lower Upper
 172 100
 171 35.7 28.6 43.0
 170 23.2 19.7 29.5

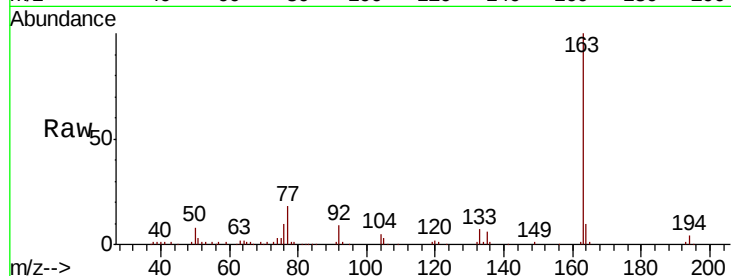




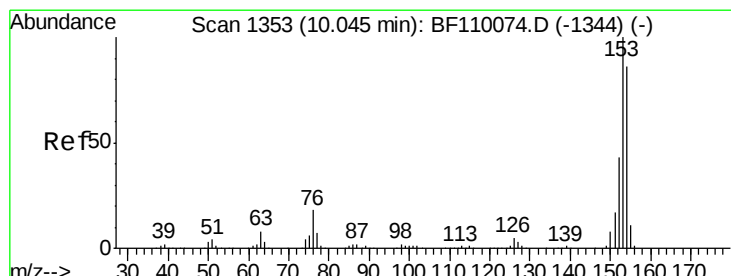
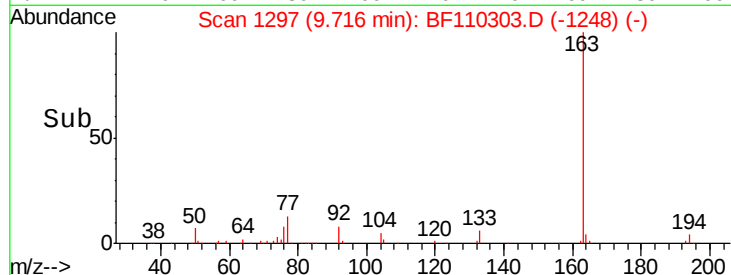
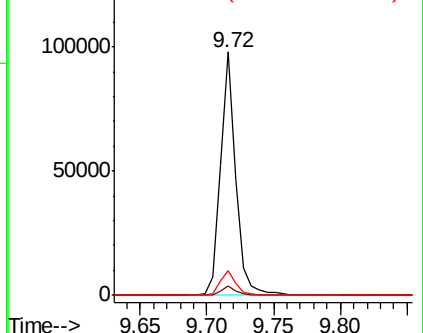
#50
Dimethylphthalate
Concen: 5.165 ng
RT: 9.72 min Scan# 1297
Delta R.T. -0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Instrument :
BNA_F
ClientSampleId :
RED-SHALE

Tgt Ion:163 Resp: 79851
Ion Ratio Lower Upper
163 100
194 3.7 3.2 4.8
164 10.1 8.1 12.1

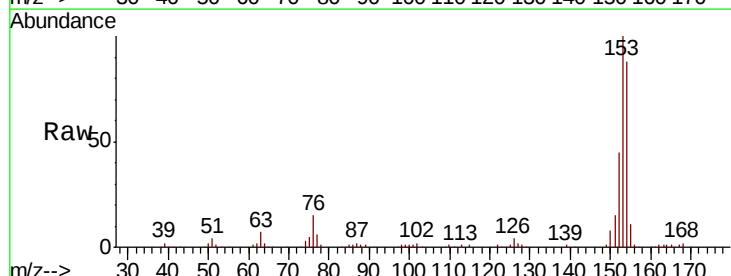


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

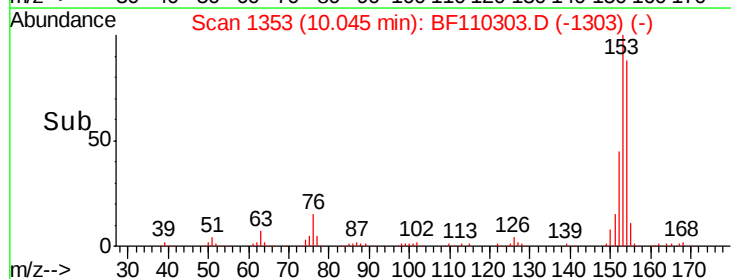
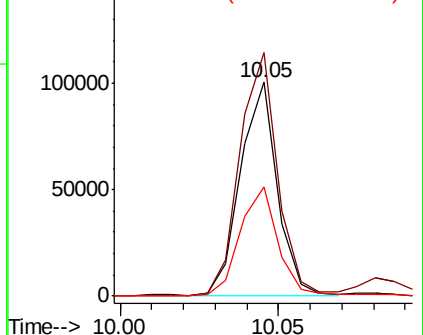


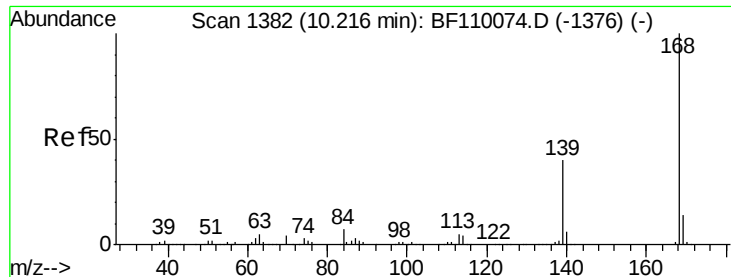
#52
Acenaphthene
Concen: 6.071 ng
RT: 10.05 min Scan# 1353
Delta R.T. -0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion:154 Resp: 80591
Ion Ratio Lower Upper
154 100
153 113.9 90.1 135.1
152 51.1 43.4 65.2



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E

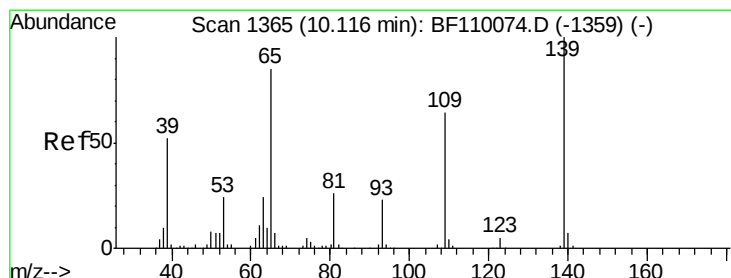
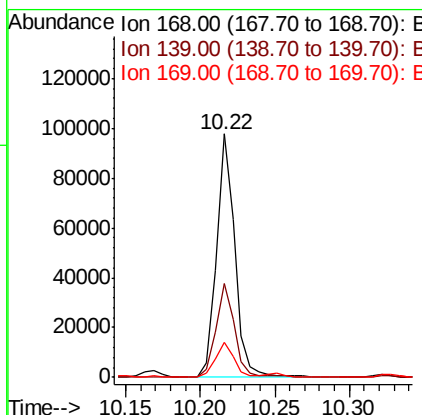
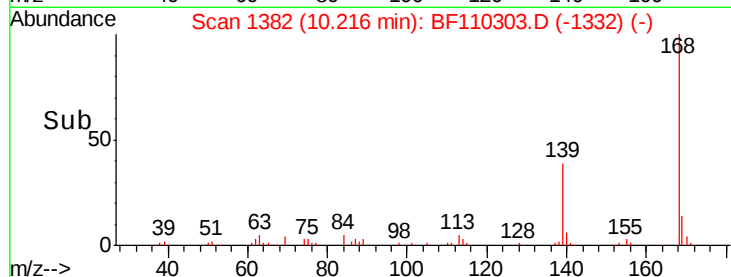
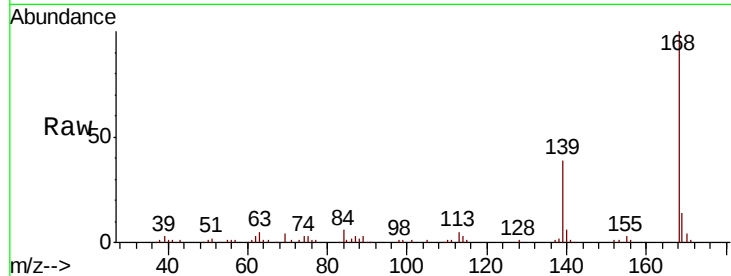




#55
Dibenzenofuran
Concen: 4.508 ng
RT: 10.22 min Scan# 1382
Delta R.T. -0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

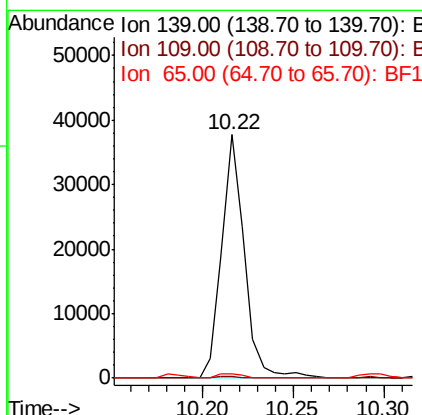
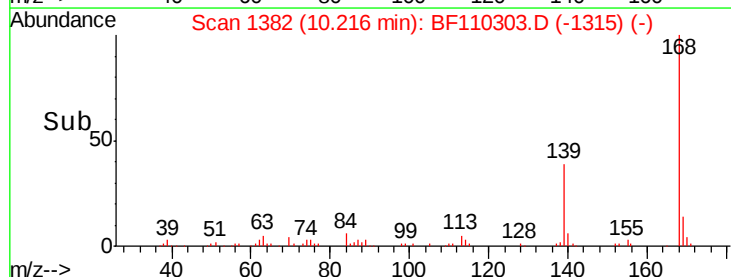
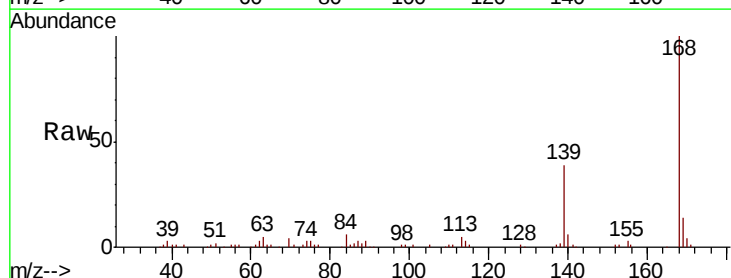
Instrument :
BNA_F
ClientSampleId :
RED-SHALE

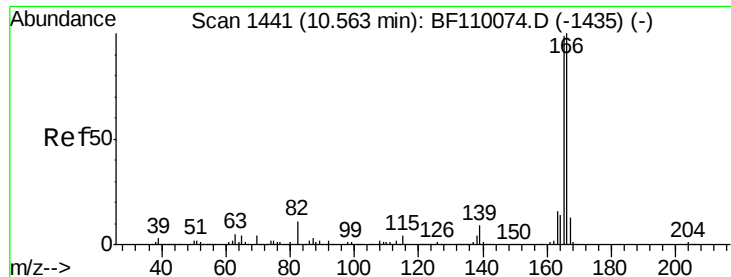
Tgt Ion:168 Resp: 83779
Ion Ratio Lower Upper
168 100
139 38.6 33.0 49.6
169 14.3 11.3 16.9



#56
4-Nitrophenol
Concen: 11.294 ng
RT: 10.22 min Scan# 1382
Delta R.T. 0.09 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion:139 Resp: 33100
Ion Ratio Lower Upper
139 100
109 0.9 55.8 95.8#
65 1.9 77.9 117.9#





#58

Fluorene

Concen: 10.055 ng

RT: 10.56 min Scan# 1441

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

ClientSampleId :

RED-SHALE

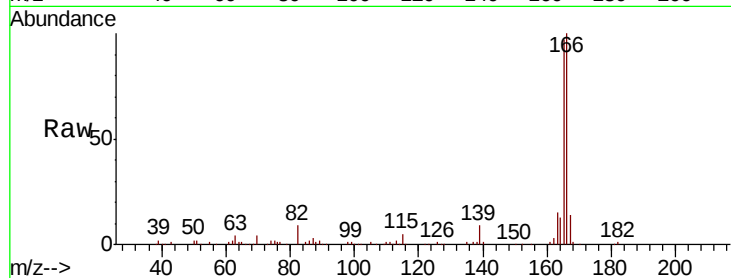
Tgt Ion:166 Resp: 139075

Ion Ratio Lower Upper

166 100

165 97.4 78.6 117.8

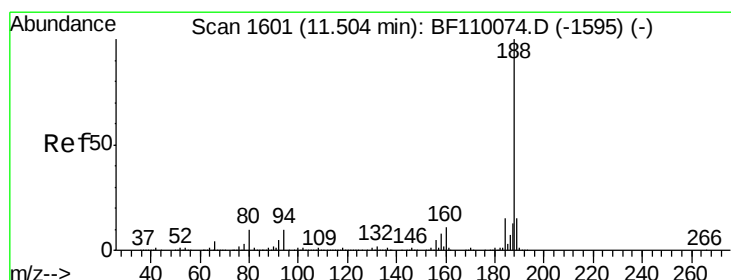
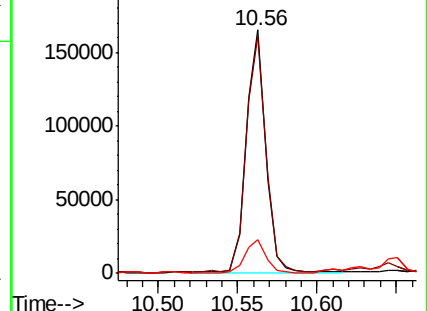
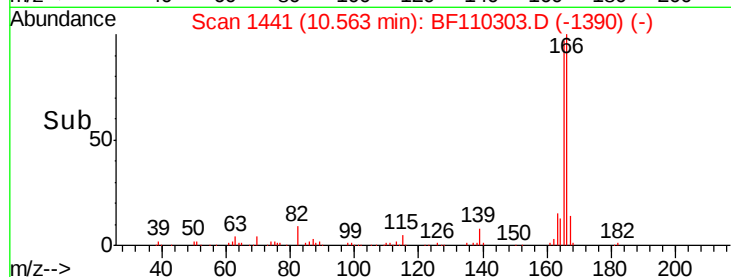
167 13.6 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.51 min Scan# 1602

Delta R.T. 0.00 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

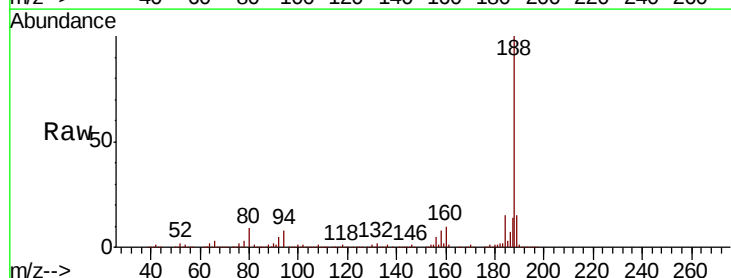
Tgt Ion:188 Resp: 339949

Ion Ratio Lower Upper

188 100

94 8.2 7.2 10.8

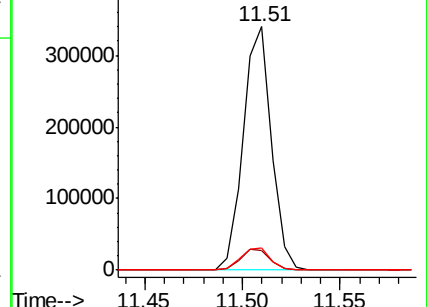
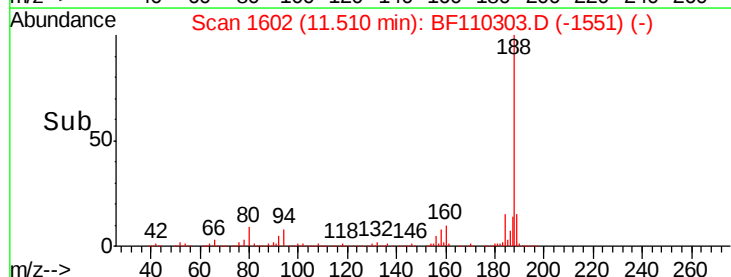
80 9.2 7.9 11.9

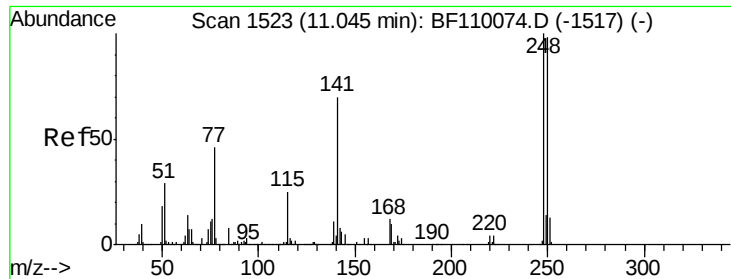


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

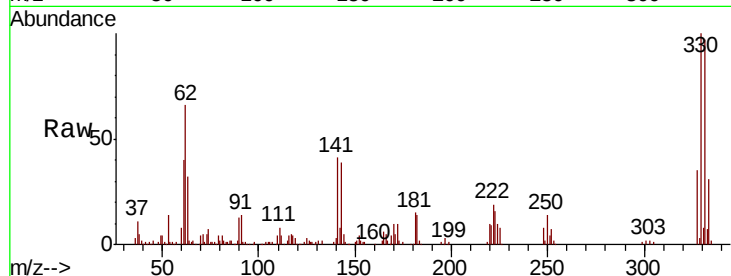




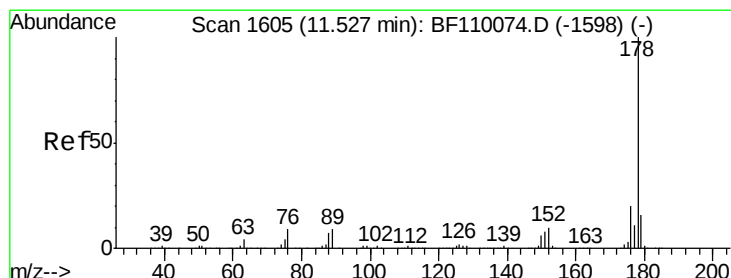
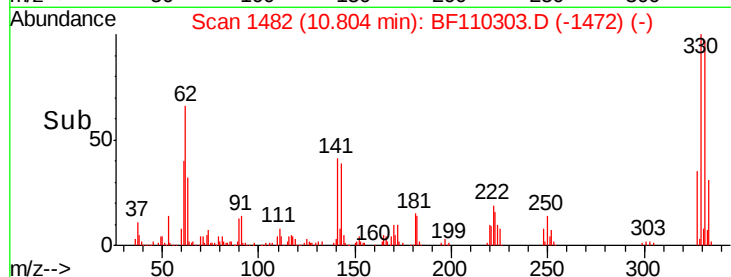
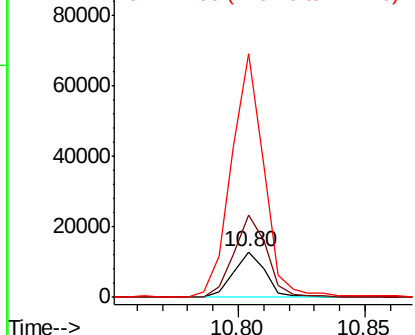
#67
 4-Bromophenyl-phenylether
 Concen: 3.019 ng
 RT: 10.80 min Scan# 1482
 Delta R.T. -0.24 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

Tgt Ion:248 Resp: 11132
 Ion Ratio Lower Upper
 248 100
 250 178.3 79.4 119.2#
 141 531.3 55.9 83.9#

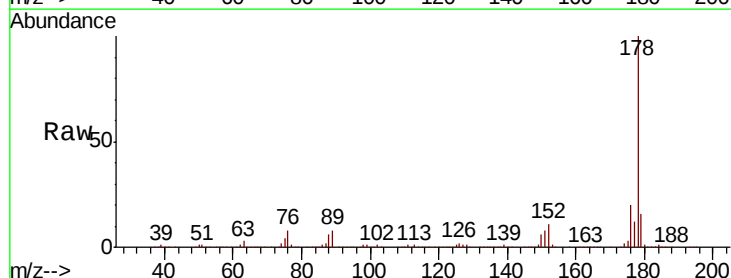


Abundance Ion 248.00 (247.70 to 248.70): E
 Ion 250.00 (249.70 to 250.70): E
 Ion 141.00 (140.70 to 141.70): E

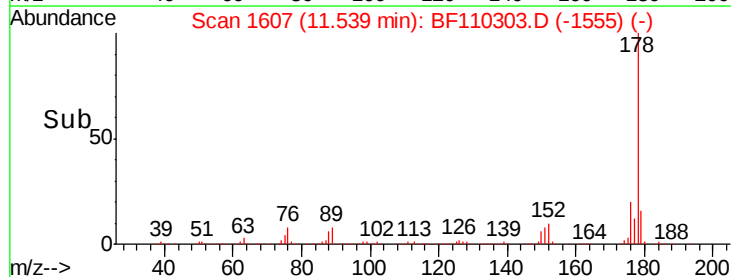
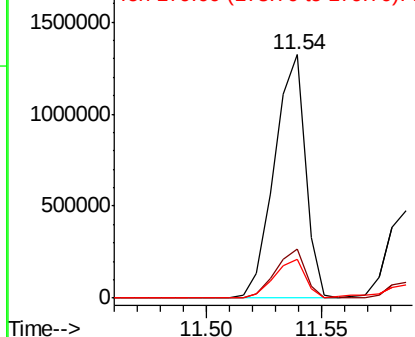


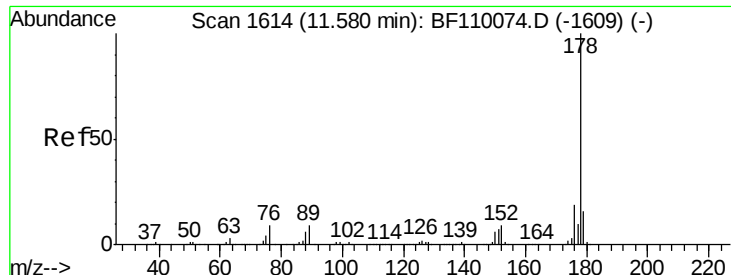
#71
 Phenanthrene
 Concen: 69.345 ng
 RT: 11.54 min Scan# 1607
 Delta R.T. 0.01 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Tgt Ion:178 Resp: 1233498
 Ion Ratio Lower Upper
 178 100
 176 20.0 15.5 23.3
 179 15.8 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

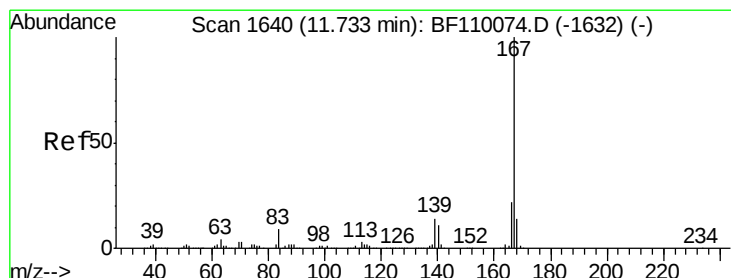
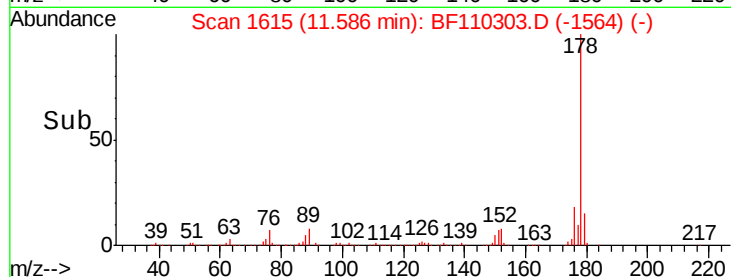
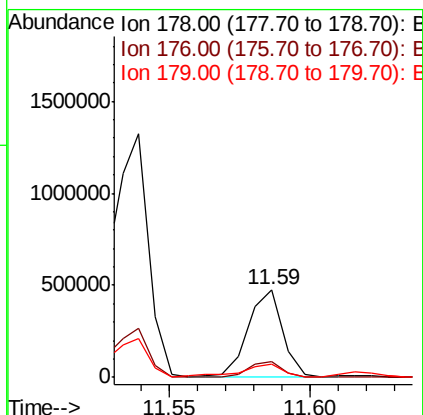
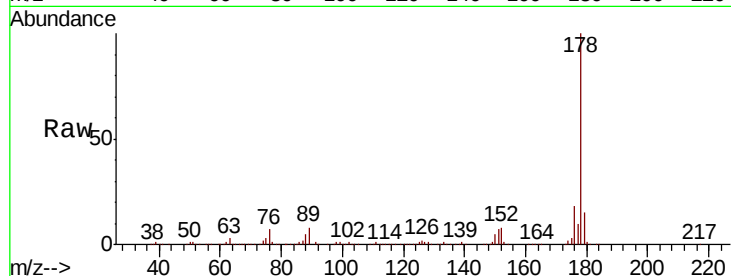




#72
 Anthracene
 Concen: 22.115 ng
 RT: 11.59 min Scan# 1615
 Delta R.T. 0.00 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

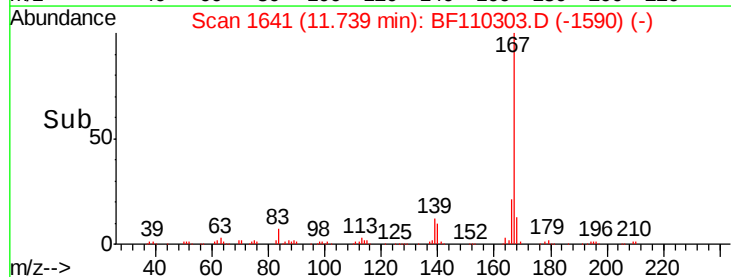
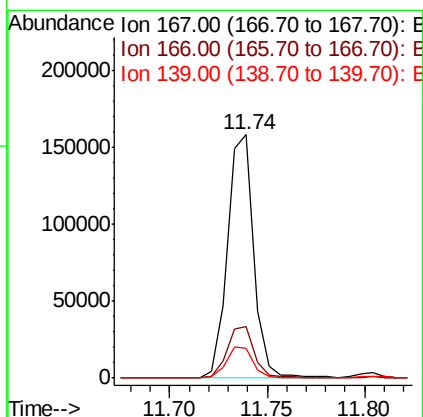
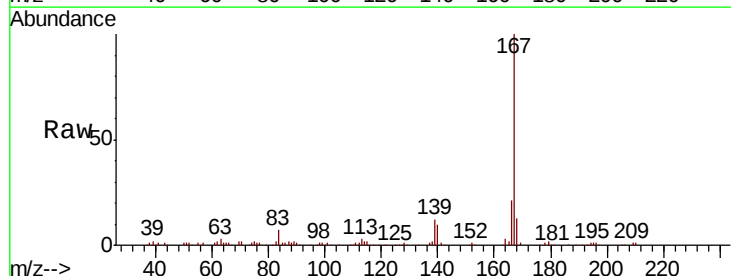
Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

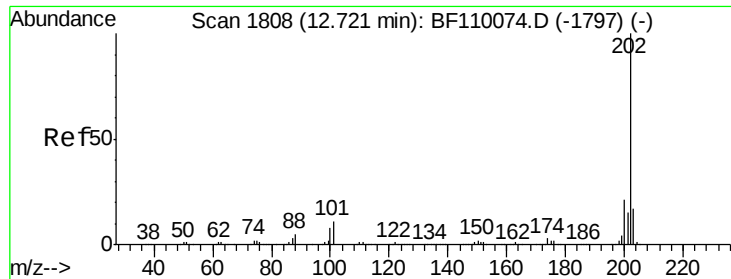
Tgt Ion:178 Resp: 394303
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.2
 179 14.8 12.6 18.8



#73
 Carbazole
 Concen: 8.468 ng
 RT: 11.74 min Scan# 1641
 Delta R.T. 0.00 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Tgt Ion:167 Resp: 147415
 Ion Ratio Lower Upper
 167 100
 166 21.1 17.4 26.0
 139 12.3 10.9 16.3





#75

Fluoranthene

Concen: 84.064 ng

RT: 12.73 min Scan# 1810

Delta R.T. 0.01 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

ClientSampleId :

RED-SHALE

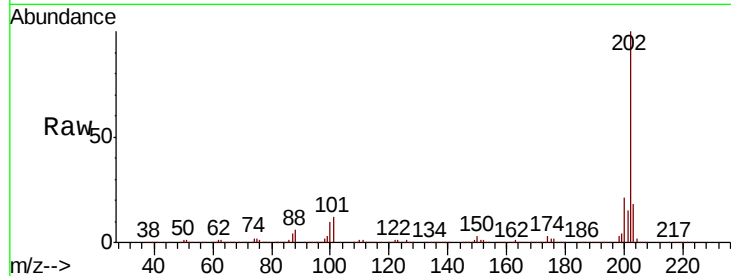
Tgt Ion:202 Resp: 1517557

Ion Ratio Lower Upper

202 100

101 12.4 0.0 31.4

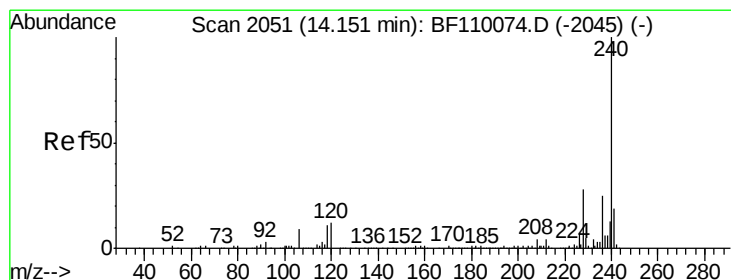
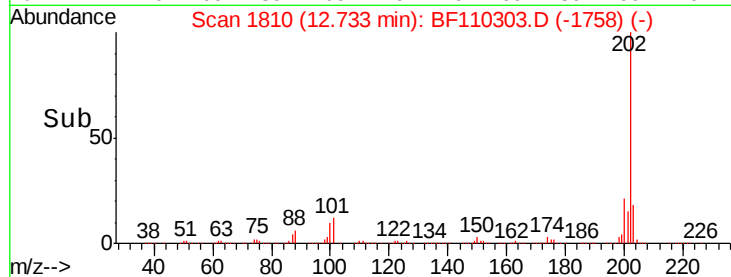
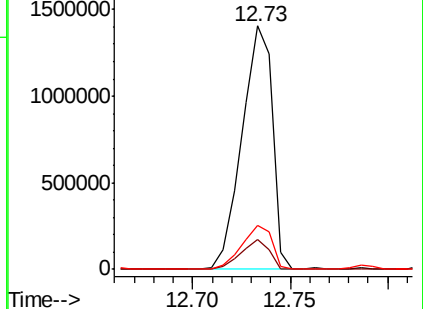
203 18.1 0.0 37.7



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2053

Delta R.T. 0.01 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

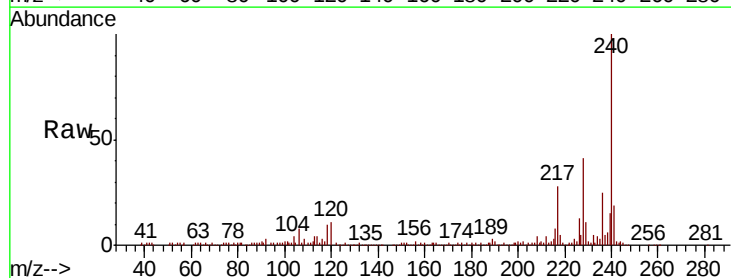
Tgt Ion:240 Resp: 212510

Ion Ratio Lower Upper

240 100

120 10.6 8.3 12.5

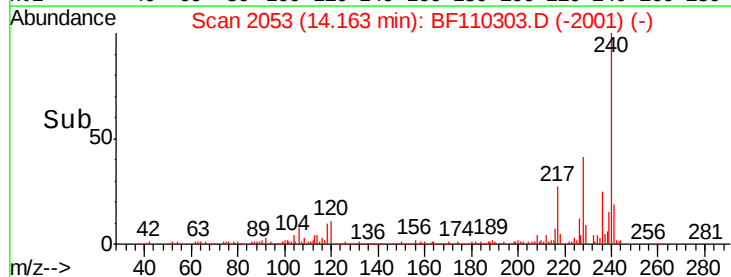
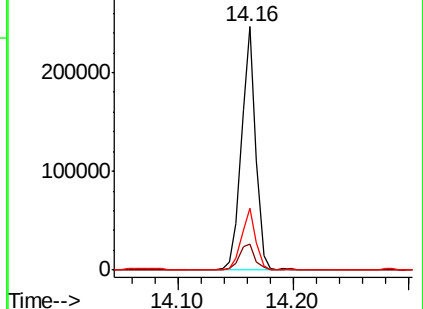
236 25.2 21.2 31.8

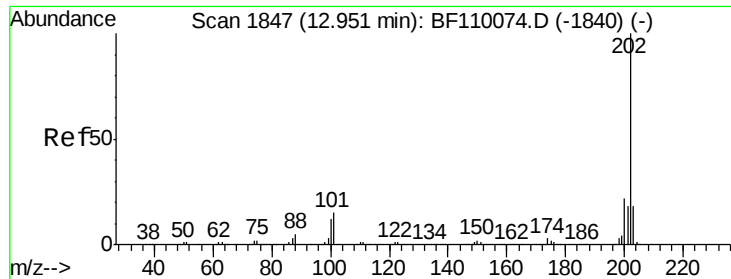


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

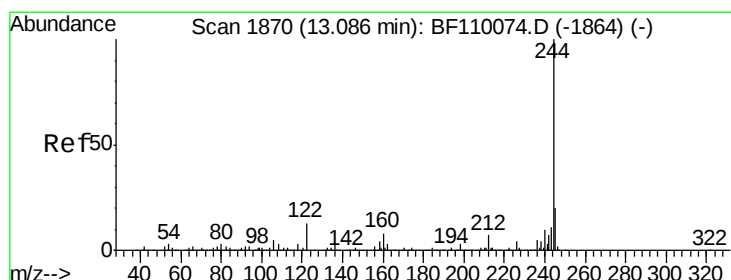
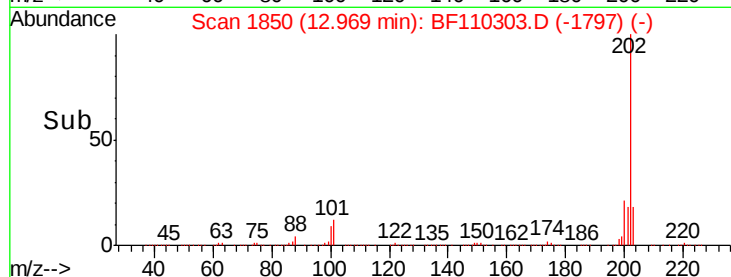
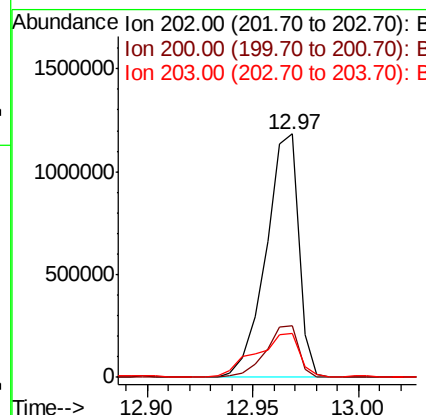
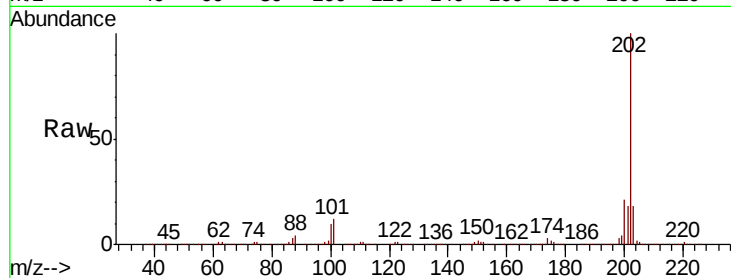




#78
 Pyrene
 Concen: 83.953 ng
 RT: 12.97 min Scan# 1850
 Delta R.T. 0.01 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

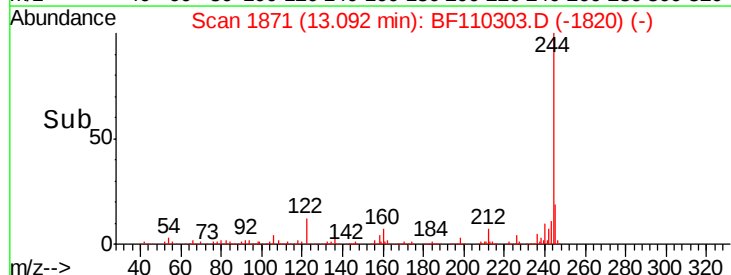
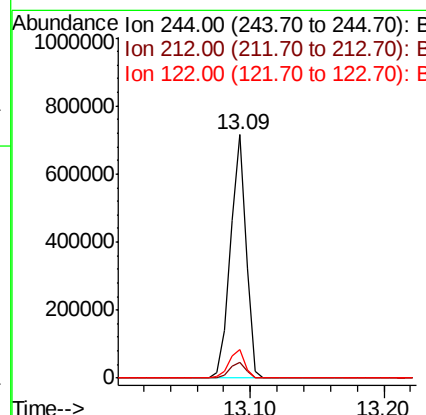
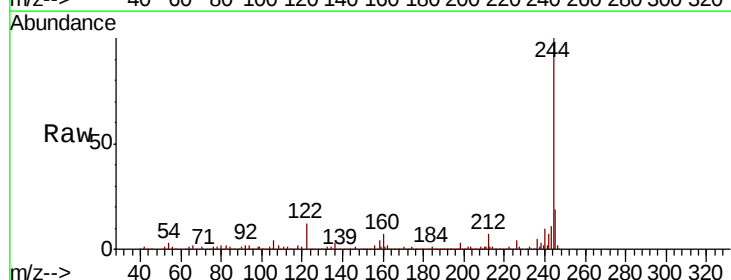
Instrument :
 BNA_F
 ClientSampleId :
 RED-SHALE

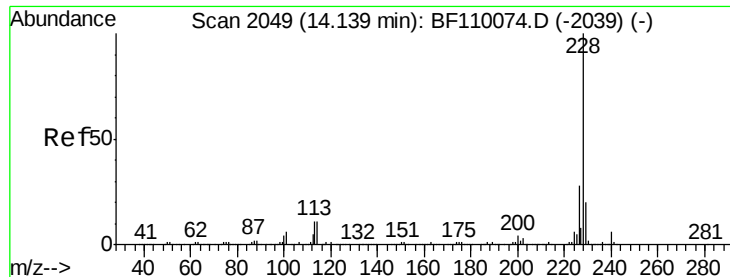
Tgt Ion: 202 Resp: 1279028
 Ion Ratio Lower Upper
 202 100
 200 21.3 17.8 26.6
 203 18.3 14.2 21.4



#79
 Terphenyl-d14
 Concen: 58.236 ng
 RT: 13.09 min Scan# 1871
 Delta R.T. 0.00 min
 Lab File: BF110303.D
 Acq: 30 Oct 2018 15:20

Tgt Ion: 244 Resp: 595069
 Ion Ratio Lower Upper
 244 100
 212 6.7 5.8 8.8
 122 11.5 8.7 13.1

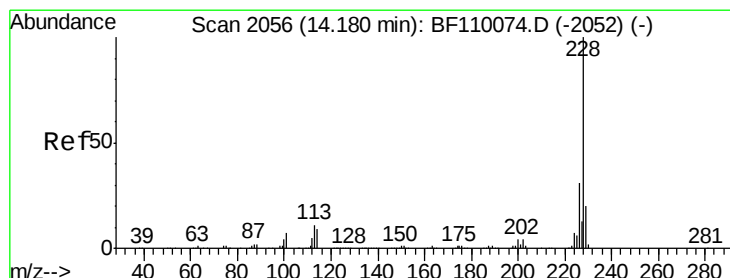
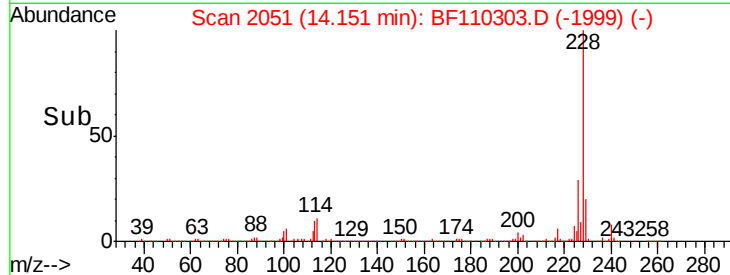
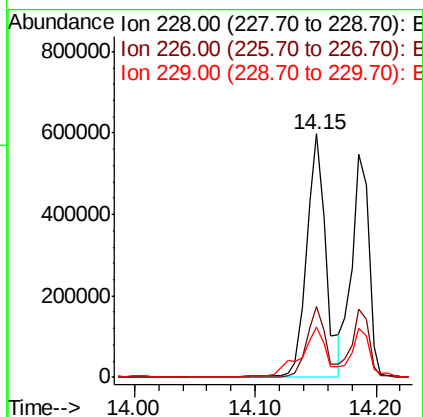
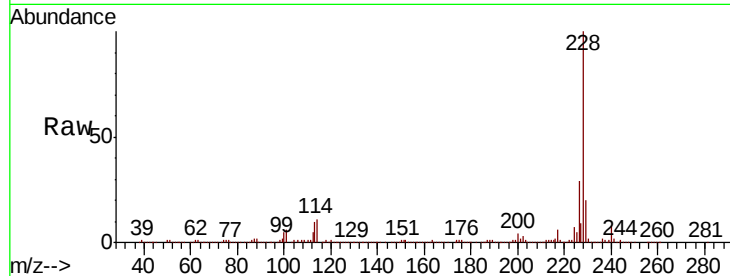




#81
Benzo(a)anthracene
Concen: 52.104 ng
RT: 14.15 min Scan# 2051
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

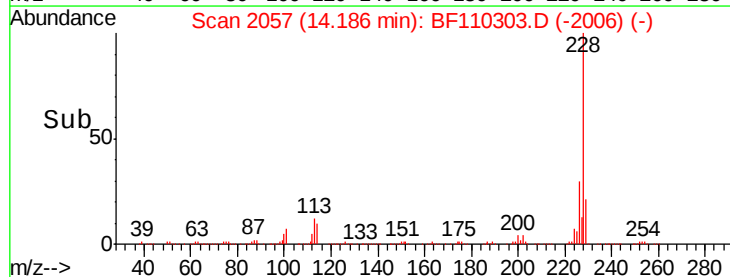
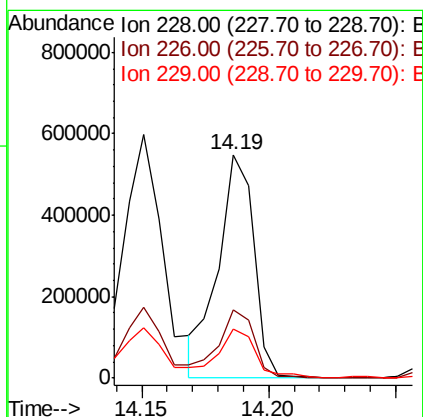
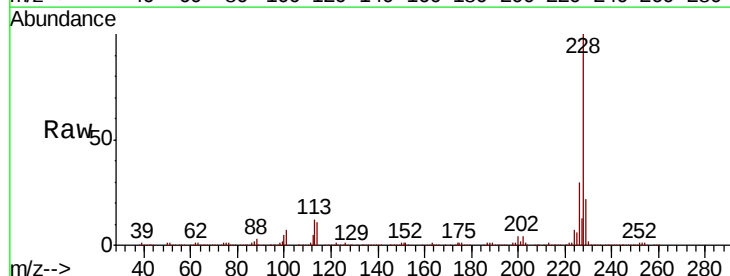
Instrument :
BNA_F
ClientSampleId :
RED-SHALE

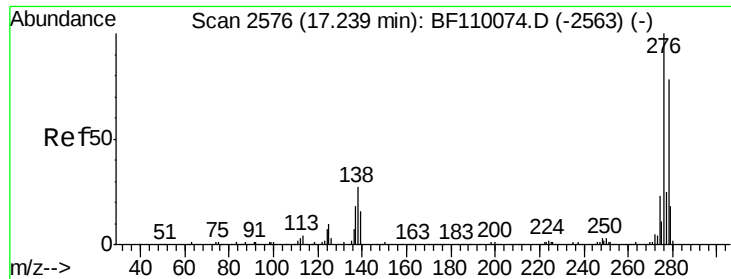
Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.1	33.1
229	20.4	15.6	23.4



#83
Chrysene
Concen: 44.754 ng
RT: 14.19 min Scan# 2057
Delta R.T. 0.00 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.3	24.7	37.1
229	22.1	15.9	23.9





#86

Indeno(1,2,3-cd)pyrene

Concen: 23.296 ng

RT: 17.27 min Scan# 2582

Delta R.T. 0.01 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

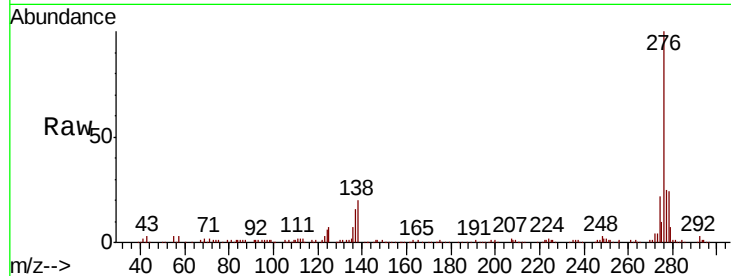
Instrument :

BNA_F

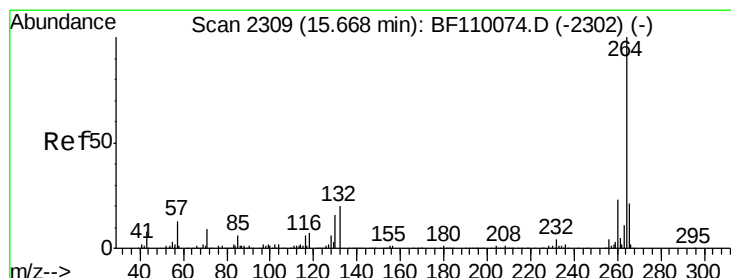
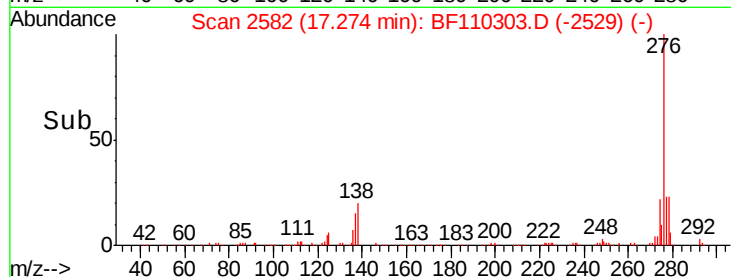
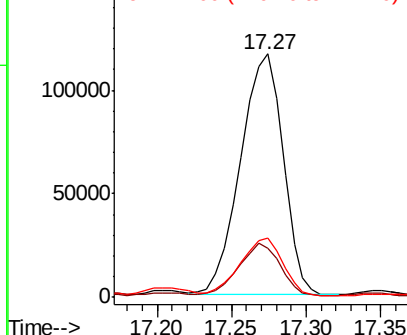
ClientSampleId :

RED-SHALE

Tgt Ion:	276	Resp:	231332
Ion Ratio	Lower	Upper	
276	100		
138	22.4	18.5	27.7
277	24.4	20.0	30.0



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E



#87

Perylene-d12

Concen: 20.000 ng

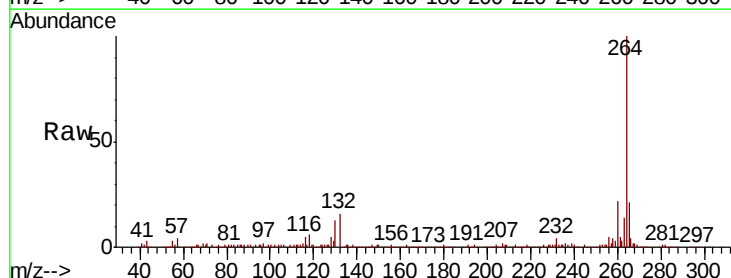
RT: 15.70 min Scan# 2314

Delta R.T. 0.01 min

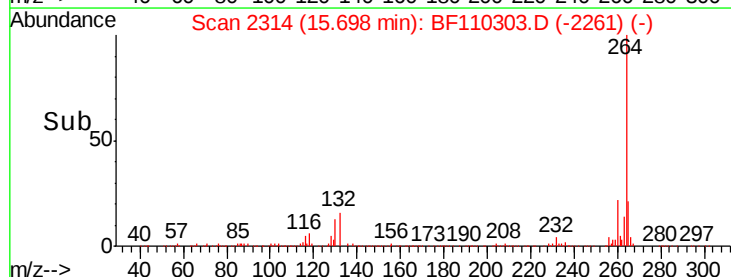
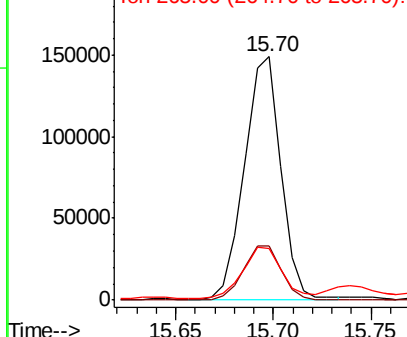
Lab File: BF110303.D

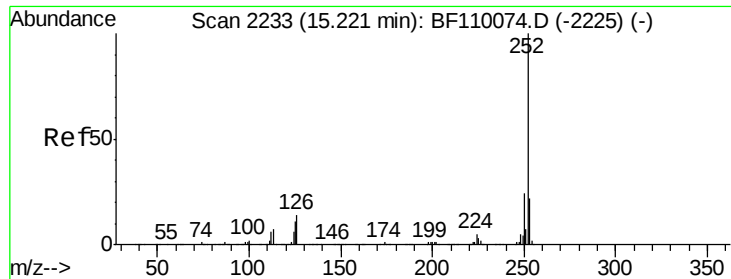
Acq: 30 Oct 2018 15:20

Tgt Ion:	264	Resp:	191630
Ion Ratio	Lower	Upper	
264	100		
260	22.2	18.7	28.1
265	21.1	16.7	25.1



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

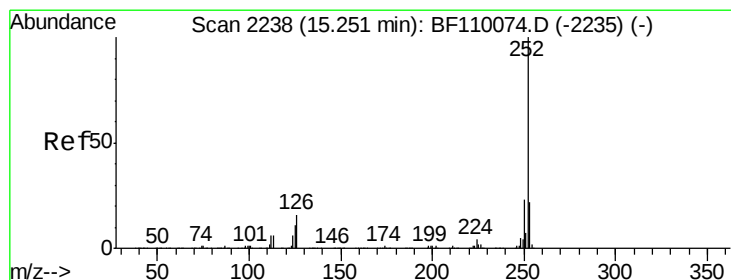
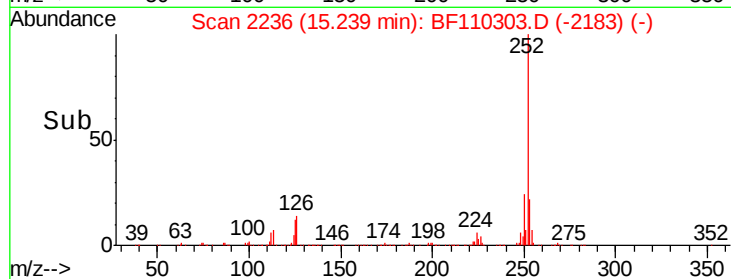
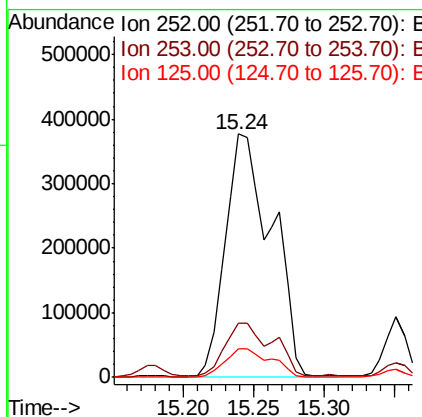
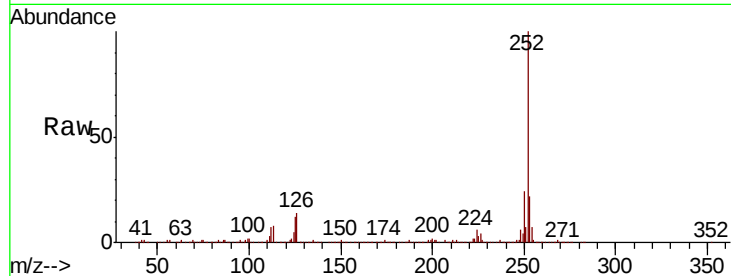




#88
Benzo(b)fluoranthene
Concen: 78.329 ng
RT: 15.24 min Scan# 2236
Delta R.T. 0.01 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

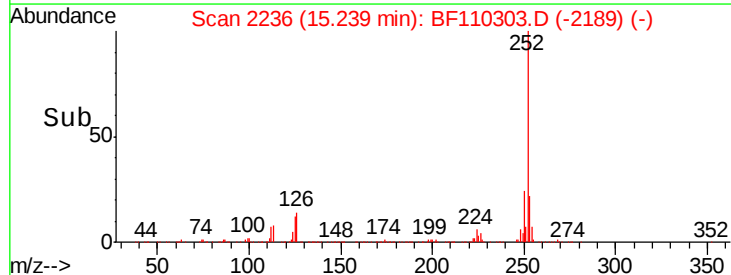
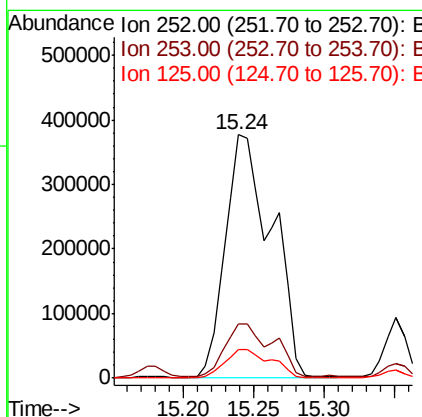
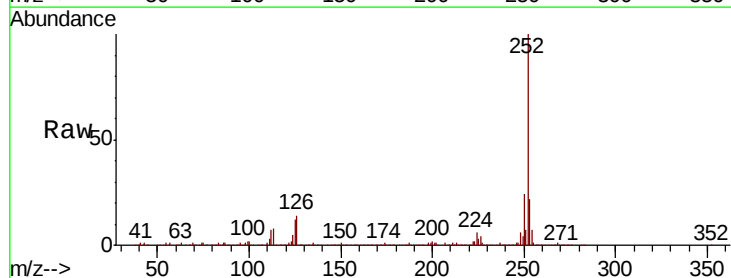
Instrument :
BNA_F
ClientSampleId :
RED-SHALE

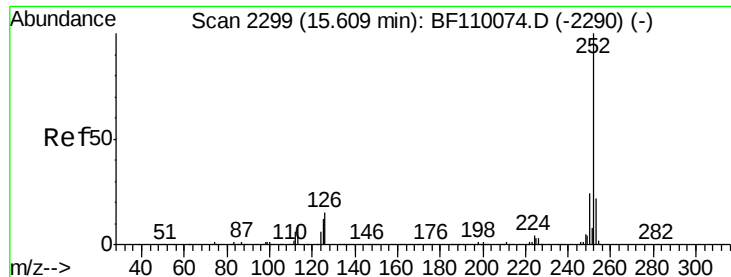
Tgt Ion:252 Resp: 866782
Ion Ratio Lower Upper
252 100
253 22.3 17.2 25.8
125 11.8 8.2 12.4



#89
Benzo(k)fluoranthene
Concen: 79.675 ng
RT: 15.24 min Scan# 2236
Delta R.T. -0.02 min
Lab File: BF110303.D
Acq: 30 Oct 2018 15:20

Tgt Ion:252 Resp: 866782
Ion Ratio Lower Upper
252 100
253 22.3 17.2 25.8
125 11.8 7.4 11.0#





#90

Benzo(a)pyrene

Concen: 45.018 ng

RT: 15.63 min Scan# 2303

Delta R.T. 0.01 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

ClientSampleId :

RED-SHALE

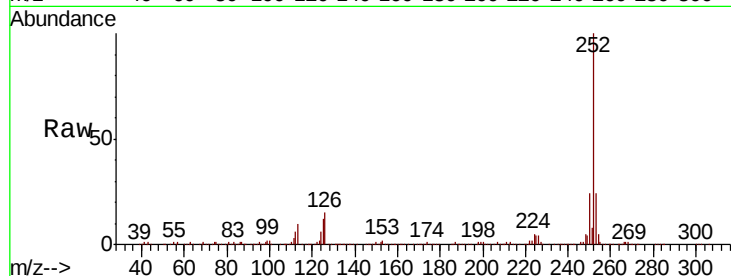
Tgt Ion:252 Resp: 458393

Ion Ratio Lower Upper

252 100

253 23.7 18.2 27.4

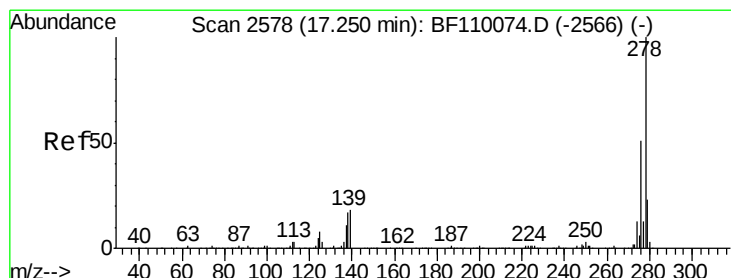
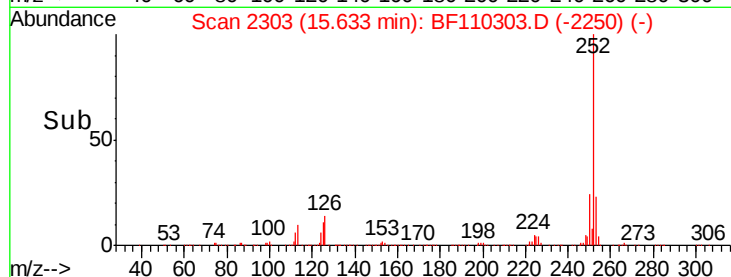
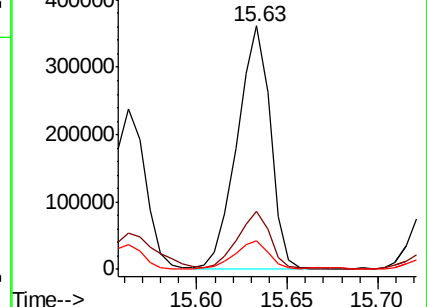
125 11.6 9.0 13.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 4.503 ng

RT: 17.06 min Scan# 2546

Delta R.T. -0.21 min

Lab File: BF110303.D

Acq: 30 Oct 2018 15:20

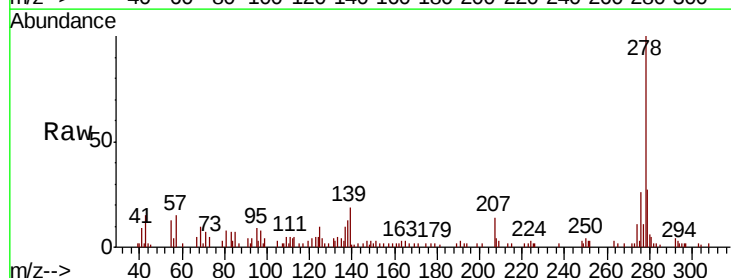
Tgt Ion:278 Resp: 39560

Ion Ratio Lower Upper

278 100

139 19.0 12.7 19.1

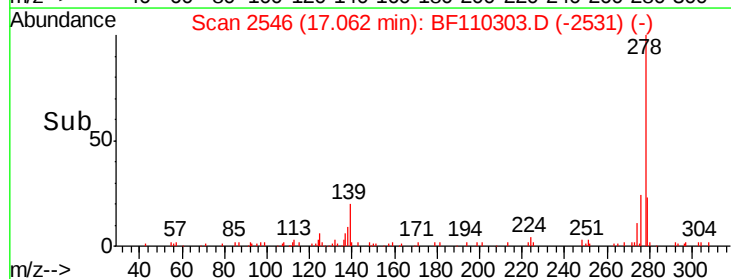
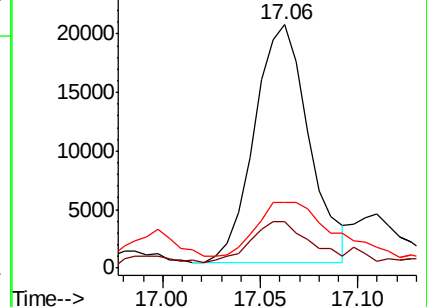
279 27.1 19.0 28.4

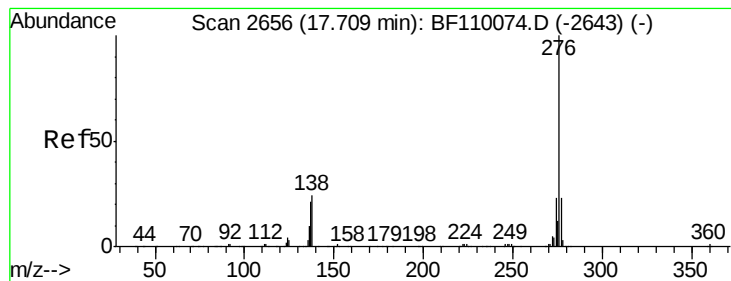


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#92

Benzo(g,h,i)perylene

Concen: 24.658 ng

RT: 17.75 min Scan# 2663

Delta R.T. 0.01 min

Lab File: BF110303.D

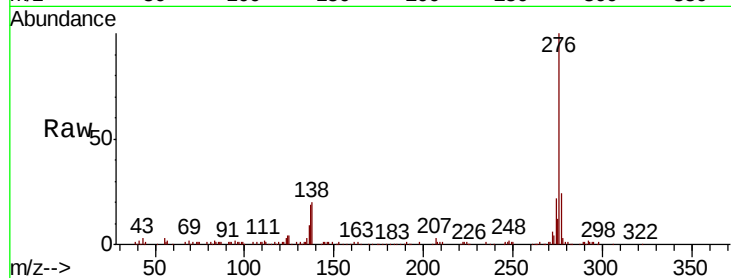
Acq: 30 Oct 2018 15:20

Instrument :

BNA_F

ClientSampleId :

RED-SHALE



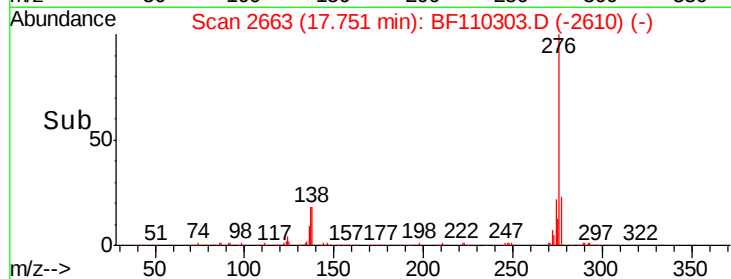
Tgt Ion: 276 Resp: 213480

Ion Ratio Lower Upper

276 100

277 24.2 18.8 28.2

138 19.9 16.0 24.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

