

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF010919\
 Data File : BF111974.D
 Acq On : 10 Jan 2019 3:27
 Operator : JU/SJ
 Sample : K1044-05DL 10X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jan 10 06:55:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF010719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 07 14:33:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	116530	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	446203	20.00	ng	0.00
39) Acenaphthene-d10	9.93	164	162417	20.00	ng	0.00
64) Phenanthrene-d10	11.42	188	282848	20.00	ng	0.00
76) Chrysene-d12	14.06	240	193151	20.00	ng	0.00
87) Perylene-d12	15.55	264	152596	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.52	112	58247	8.55	ng	0.00
7) Phenol-d6	6.52	99	75560	8.61	ng	-0.01
23) Nitrobenzene-d5	7.44	82	41976	5.03	ng	-0.02
42) 2,4,6-Tribromophenol	10.72	330	15091	7.14	ng	0.00
45) 2-Fluorobiphenyl	9.24	172	72389	6.50	ng	-0.01
79) Terphenyl-d14	13.00	244	64499	6.34	ng	0.00

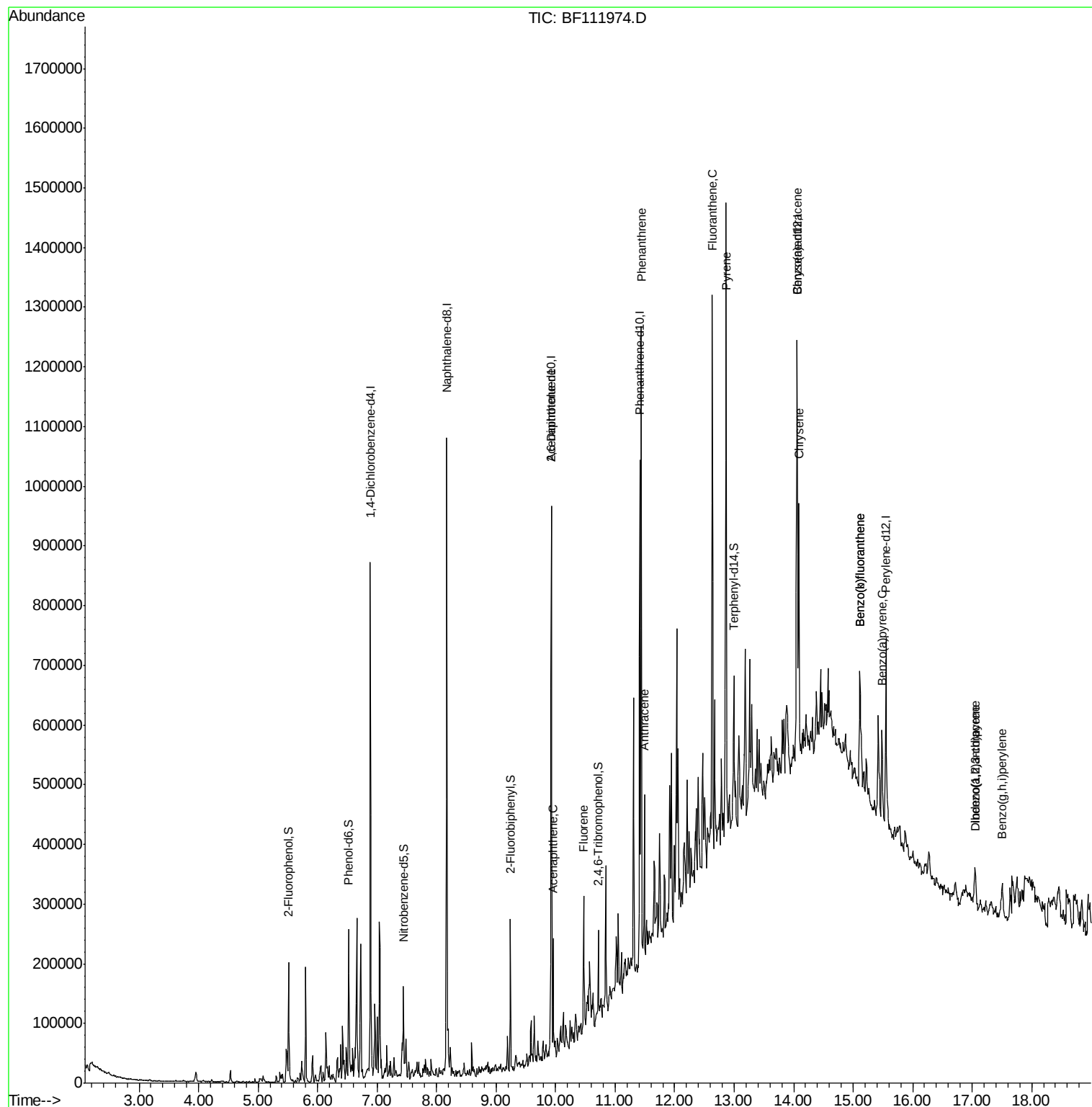
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.42	77	1811	Below Cal		# 1
51) 2,6-Dinitrotoluene	9.93	165	23835	8.736	ng	# 26
52) Acenaphthene	9.96	154	34618	3.406	ng	95
58) Fluorene	10.47	166	51420	4.781	ng	94
71) Phenanthrene	11.44	178	354612	23.449	ng	99
72) Anthracene	11.49	178	104649	6.817	ng	99
75) Fluoranthene	12.63	202	336144	21.652	ng	98
78) Pyrene	12.86	202	433453	32.615	ng	99
81) Benzo(a)anthracene	14.05	228	156370	14.067	ng	99
83) Chrysene	14.09	228	141952	13.393	ng	98
86) Indeno(1,2,3-cd)pyrene	17.05	276	44573	5.768	ng	97
88) Benzo(b)fluoranthene	15.12	252	137205	15.031	ng	# 95
89) Benzo(k)fluoranthene	15.12	252	137205	15.991	ng	# 95
90) Benzo(a)pyrene	15.49	252	85858	10.697	ng	# 96
91) Dibenzo(a,h)anthracene	17.06	278	15356	2.379	ng	# 80
92) Benzo(g,h,i)perylene	17.51	276	45082	7.140	ng	96

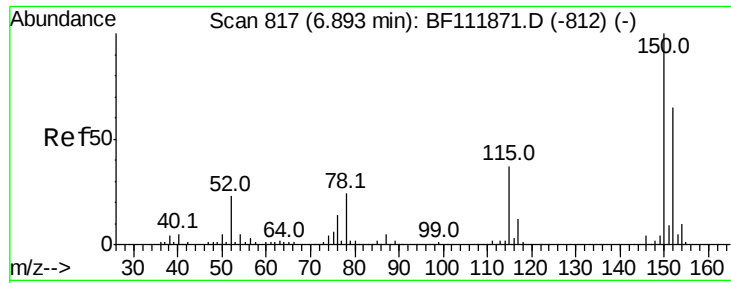
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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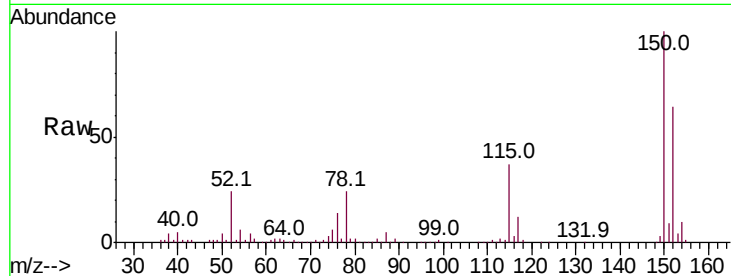


#1

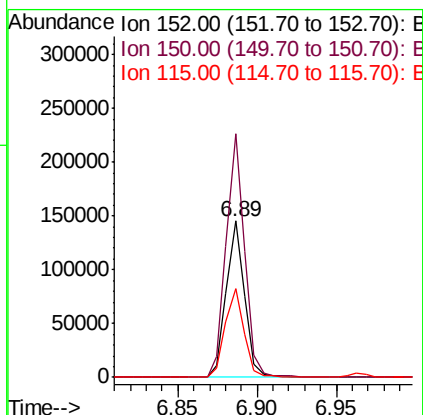
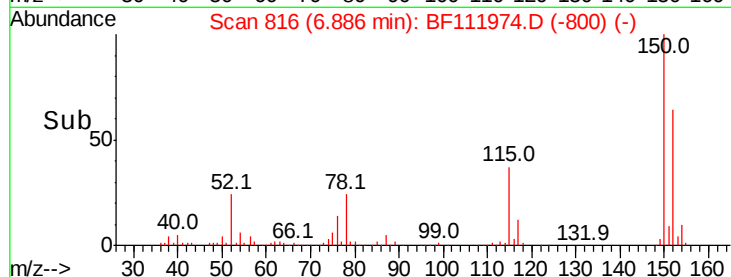
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.89 min Scan# 816
Delta R.T. -0.01 min
Lab File: BF111974.D
Acq: 10 Jan 2019 3:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 116530
Ion Ratio Lower Upper
152 100
150 155.7 122.7 184.1
115 57.1 45.2 67.8



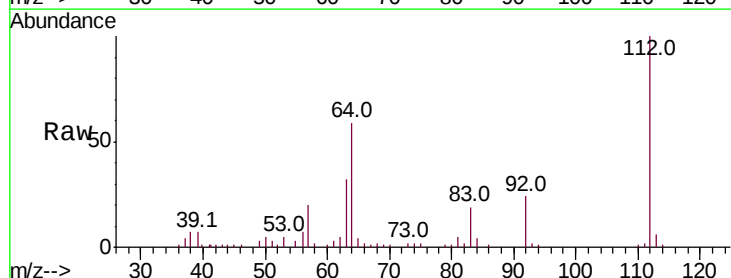
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



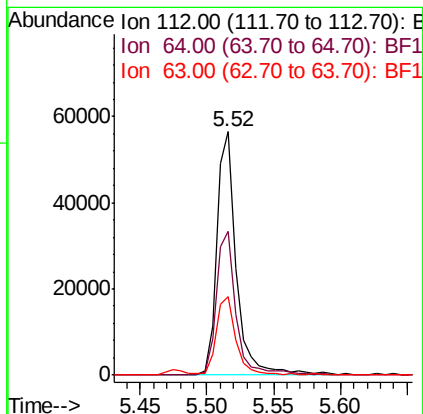
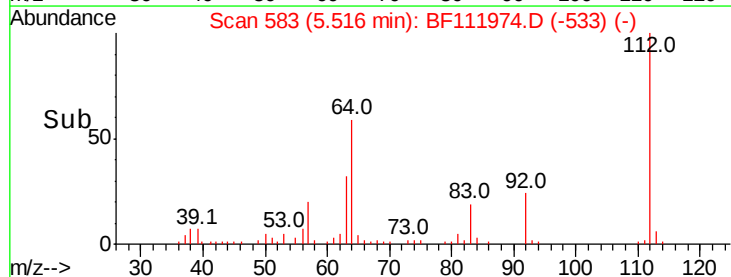
#5

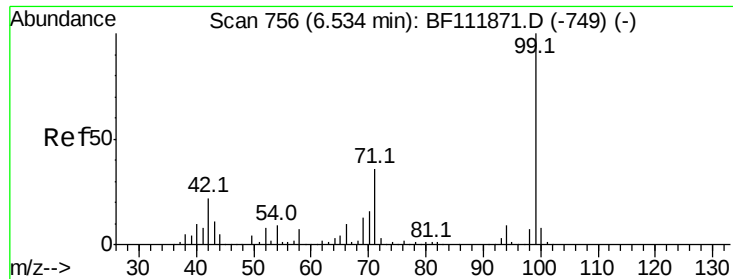
2-Fluorophenol
Concen: 8.551 ng
RT: 5.52 min Scan# 583
Delta R.T. -0.01 min
Lab File: BF111974.D
Acq: 10 Jan 2019 3:27

Tgt Ion:112 Resp: 58247
Ion Ratio Lower Upper
112 100
64 59.2 48.3 72.5
63 32.0 26.1 39.1



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: 8.607 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.01 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

Instrument :

BNA_F

ClientSampled :

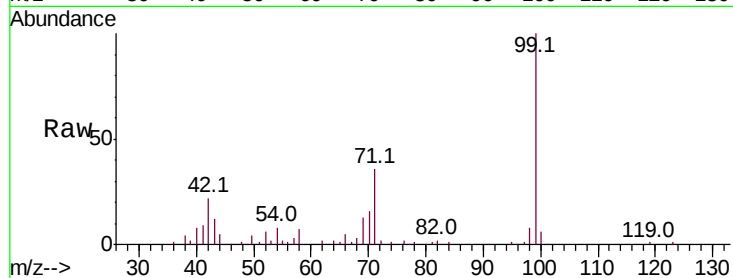
Tot Ion: 99 Resp: 75560

Ion Ratio Lower Upper

99 100

42 21.6 17.9 26.9

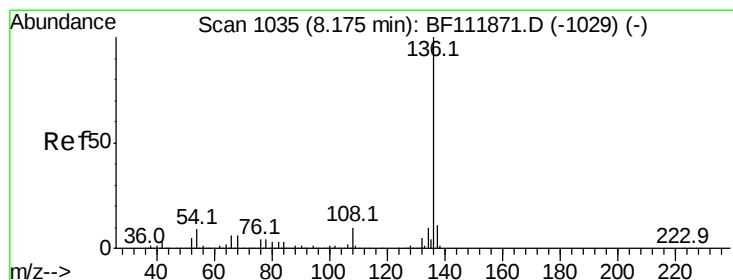
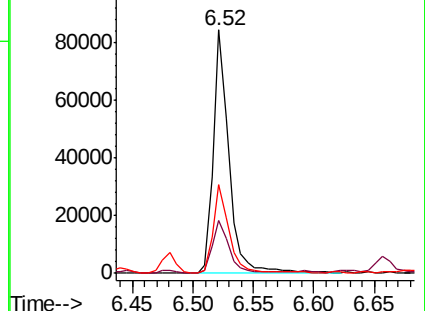
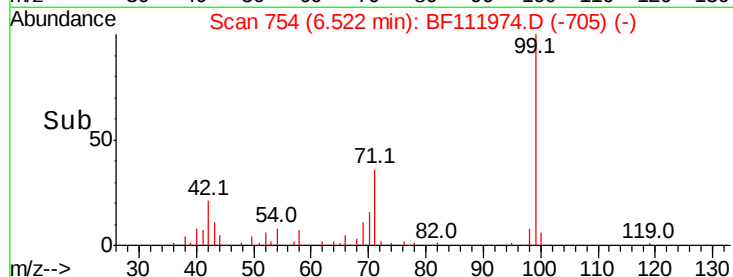
71 36.5 28.7 43.1



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



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.17 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

Tgt Ion: 136 Resp: 446203

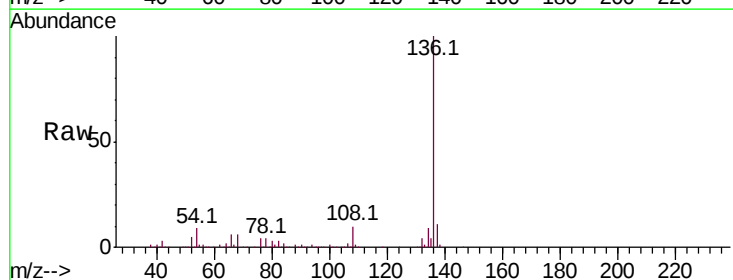
Ion Ratio Lower Upper

136 100

137 10.9 9.1 13.7

54 9.1 7.2 10.8

68 5.7 4.4 6.6

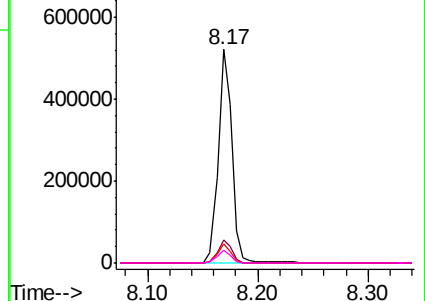
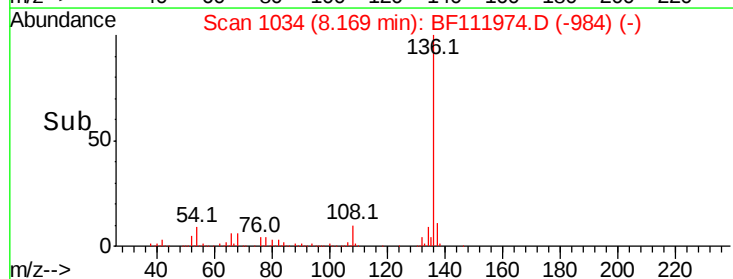


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

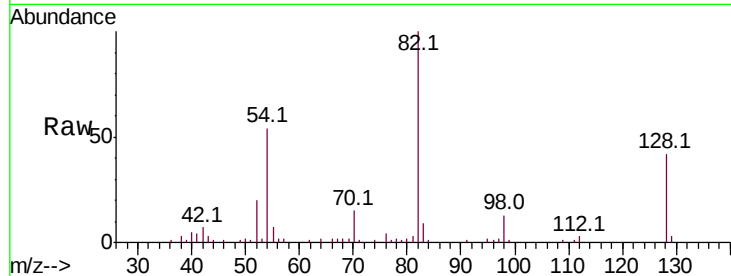




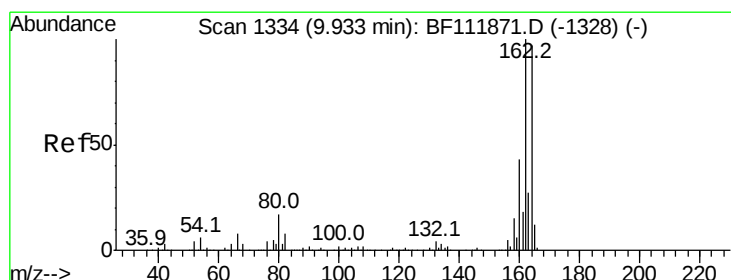
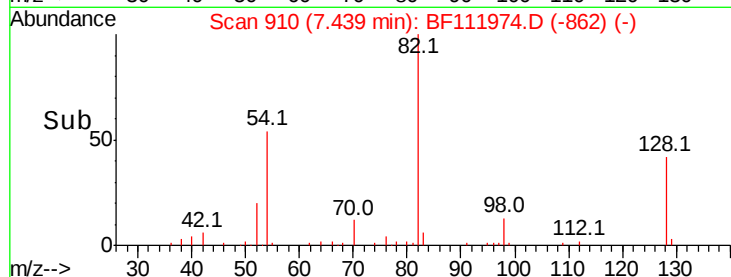
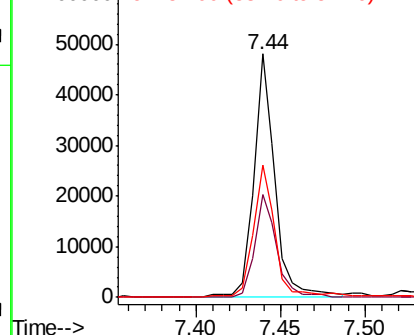
#23
 Nitrobenzene-d5
 Concen: 5.028 ng
 RT: 7.44 min Scan# 910
 Delta R.T. -0.02 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Instrument :
 BNA_F
 ClientSampled :

Tot Ion: 82 Resp: 41976
 Ion Ratio Lower Upper
 82 100
 128 42.2 35.7 53.5
 54 54.4 45.8 68.8

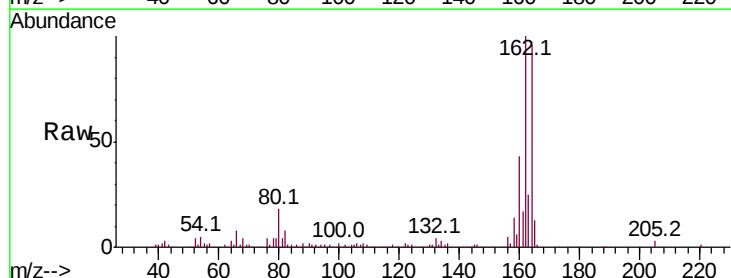


Abundance Ion 82.00 (81.70 to 82.70): BF1
 Ion 128.00 (127.70 to 128.70): BF1
 Ion 54.00 (53.70 to 54.70): BF1

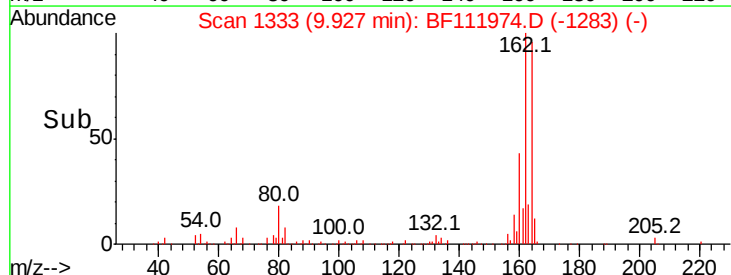
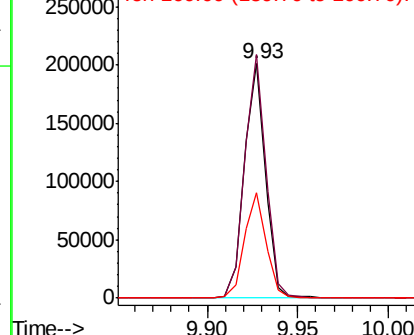


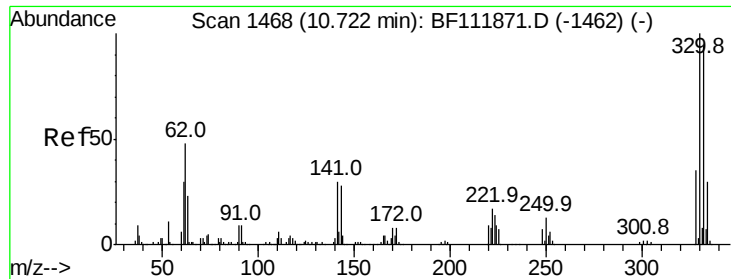
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.93 min Scan# 1333
 Delta R.T. -0.01 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Tgt Ion:164 Resp: 162417
 Ion Ratio Lower Upper
 164 100
 162 103.8 82.2 123.2
 160 44.9 35.5 53.3



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

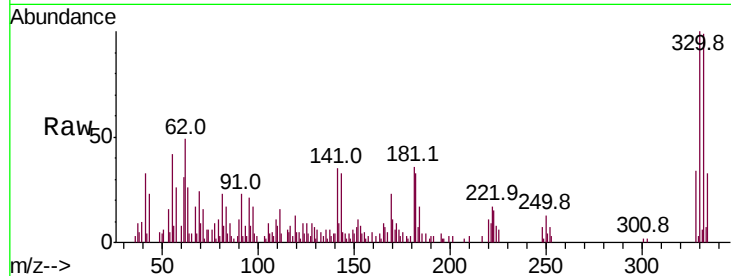




#42
 2,4,6-Tribromophenol
 Concen: 7.143 ng
 RT: 10.72 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
330	100		
332	92.3	76.9	115.3
141	32.1	23.7	35.5

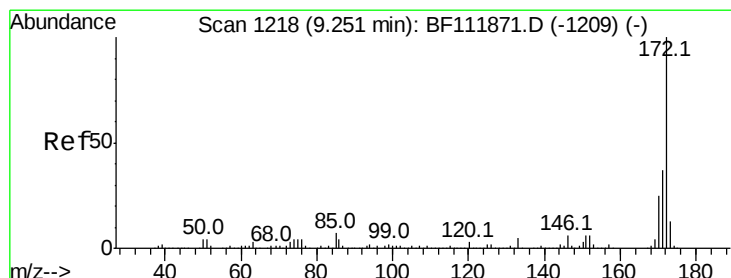
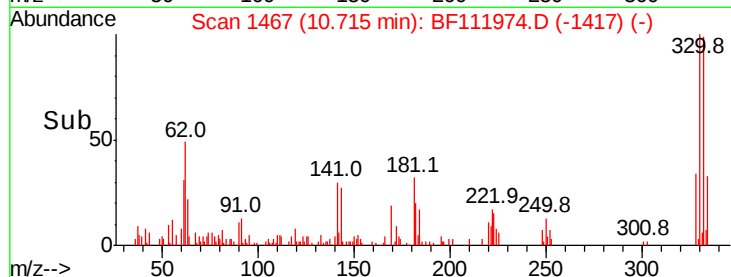
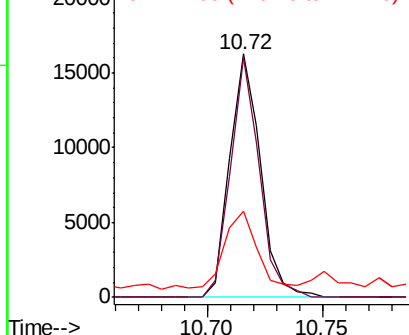


Abundance

Ion 329.80 (329.50 to 330.50): E

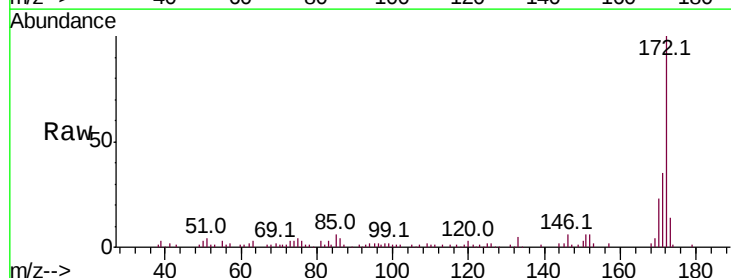
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45
 2-Fluorobiphenyl
 Concen: 6.499 ng
 RT: 9.24 min Scan# 1216
 Delta R.T. -0.01 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.6	44.4
170	22.7	19.8	29.8

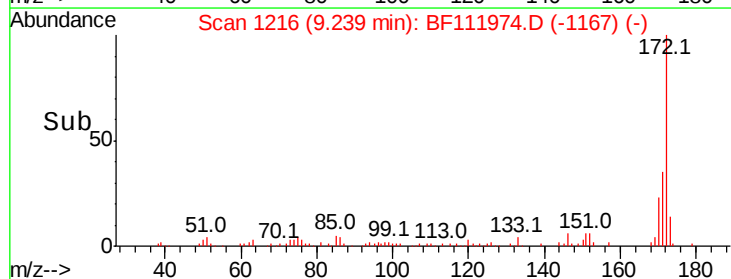
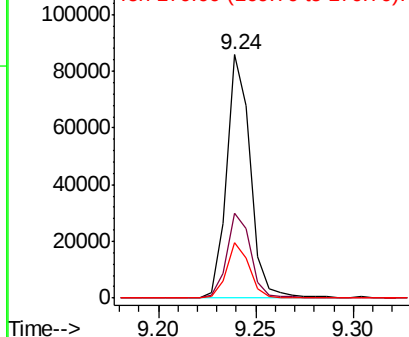


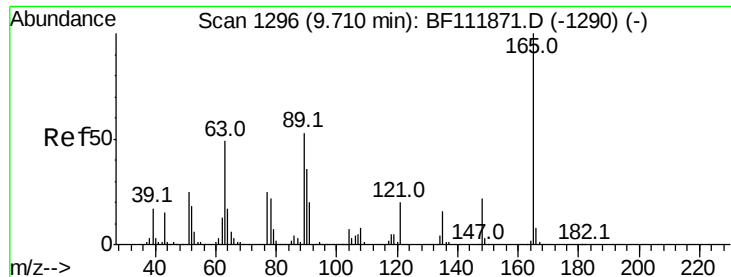
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 8.736 ng

RT: 9.93 min Scan# 1333

Delta R.T. 0.22 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

Instrument :

BNA_F

ClientSampleId :

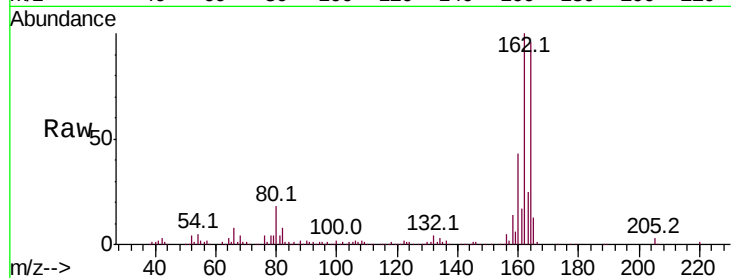
Tot Ion:165 Resp: 23835

Ion Ratio Lower Upper

165 100

63 2.0 46.2 69.2#

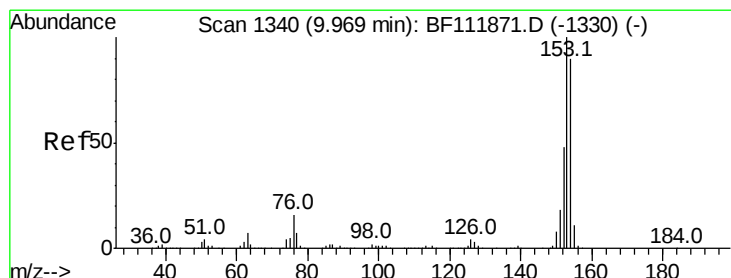
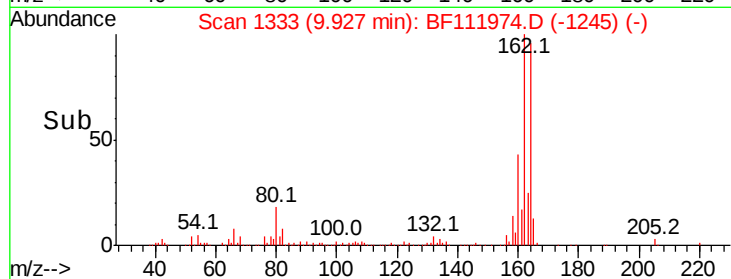
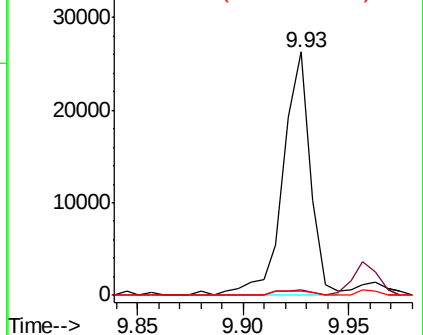
89 1.9 42.2 63.2#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#52

Acenaphthene

Concen: 3.406 ng

RT: 9.96 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

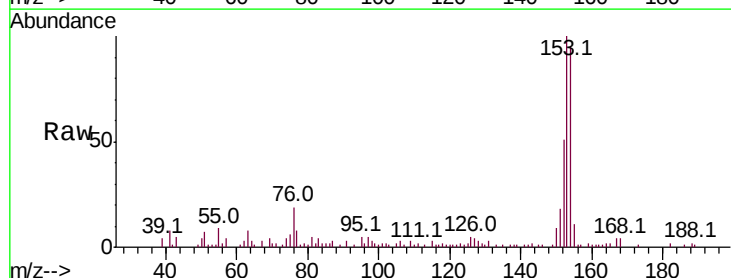
Tgt Ion:154 Resp: 34618

Ion Ratio Lower Upper

154 100

153 104.8 89.4 134.0

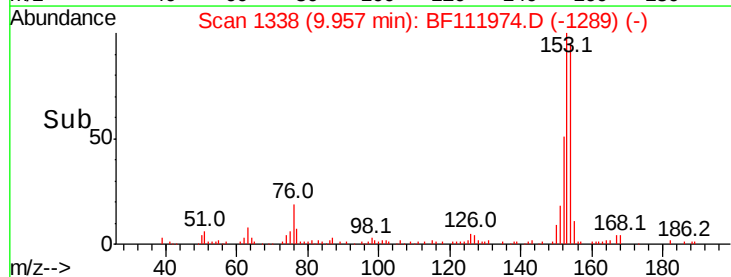
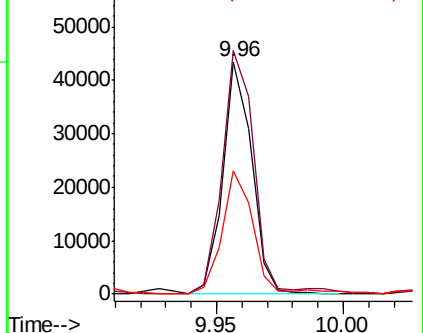
152 53.1 43.1 64.7

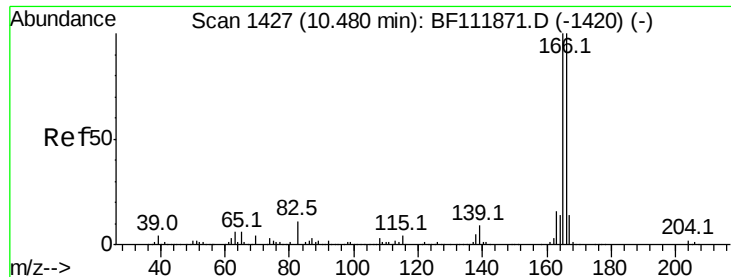


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

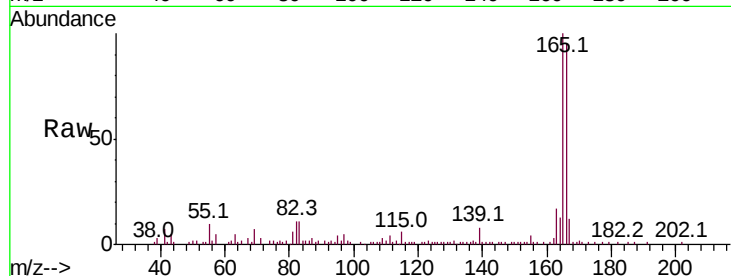




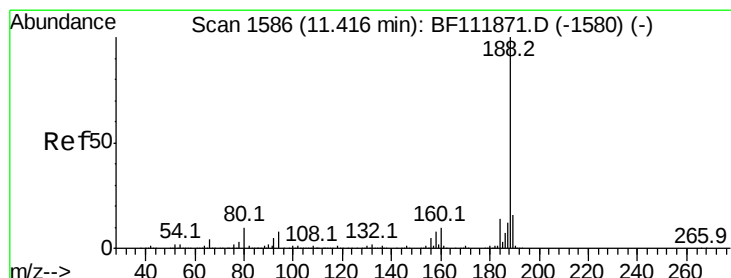
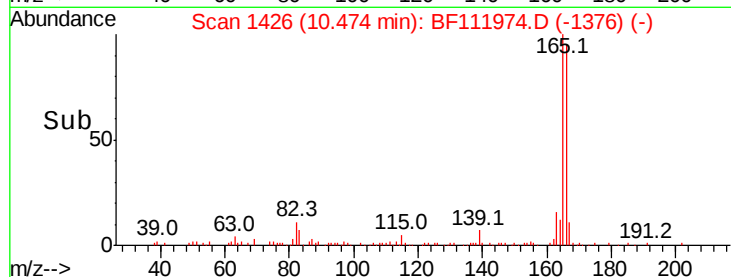
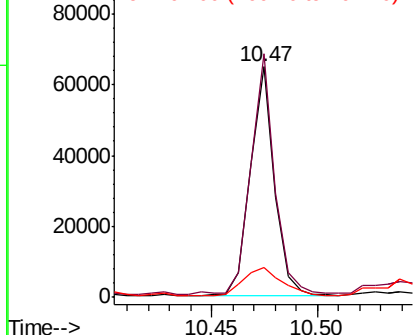
#58
 Fluorene
 Concen: 4.781 ng
 RT: 10.47 min Scan# 1426
 Delta R.T. -0.01 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:166 Resp: 51420
 Ion Ratio Lower Upper
 166 100
 165 105.6 79.7 119.5
 167 13.0 11.1 16.7

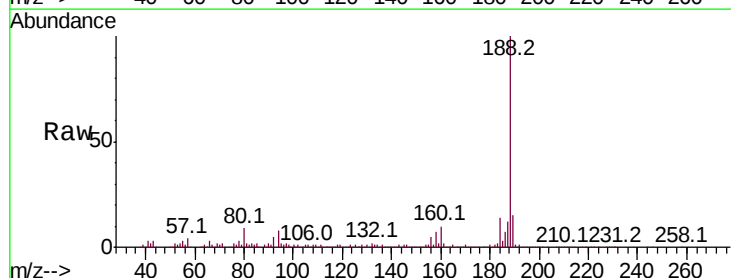


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

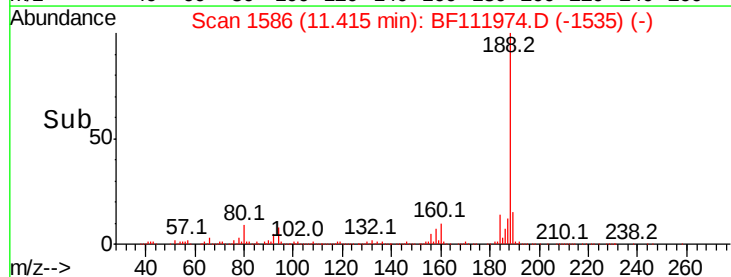
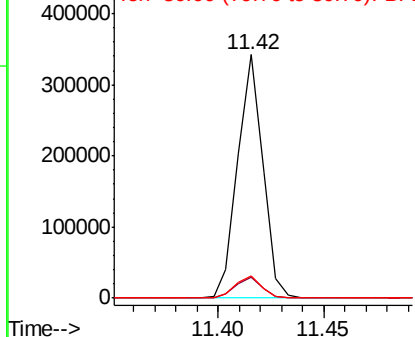


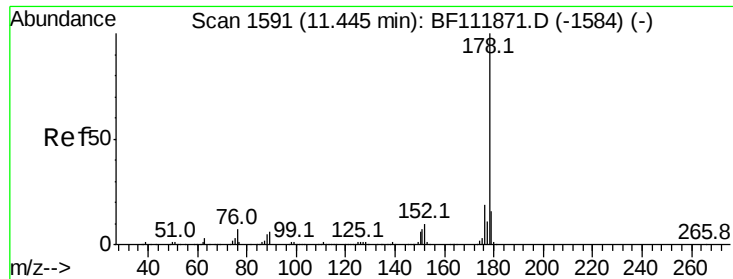
#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.42 min Scan# 1586
 Delta R.T. -0.00 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Tgt Ion:188 Resp: 282848
 Ion Ratio Lower Upper
 188 100
 94 8.4 6.6 10.0
 80 9.0 7.7 11.5



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

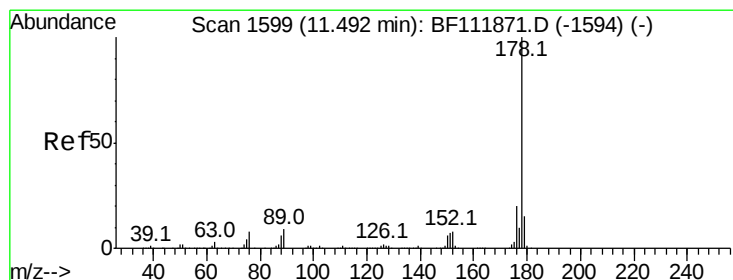
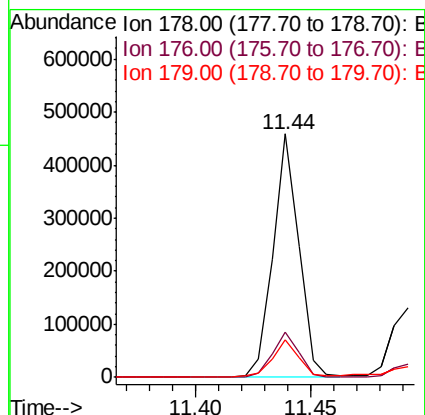
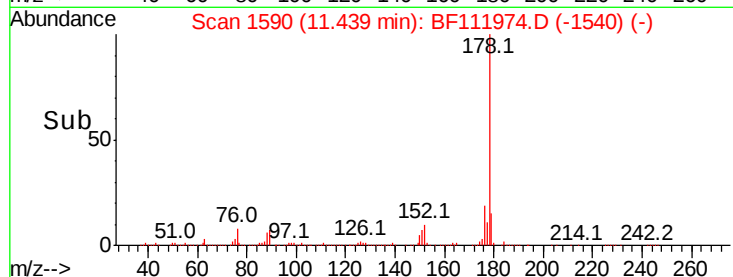
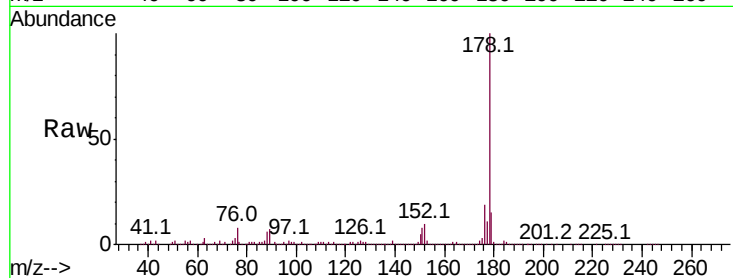




#71
Phenanthrene
Concen: 23.449 ng
RT: 11.44 min Scan# 1590
Delta R.T. -0.01 min
Lab File: BF111974.D
Acq: 10 Jan 2019 3:27

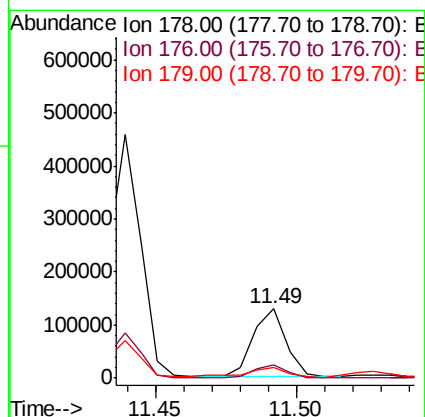
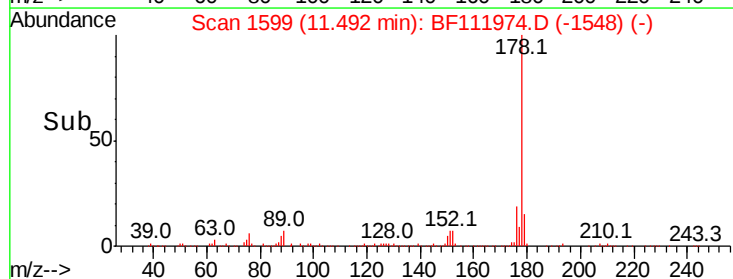
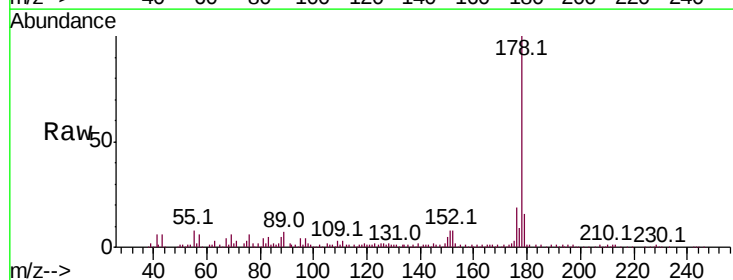
Instrument :
BNA_F
ClientSampleId :

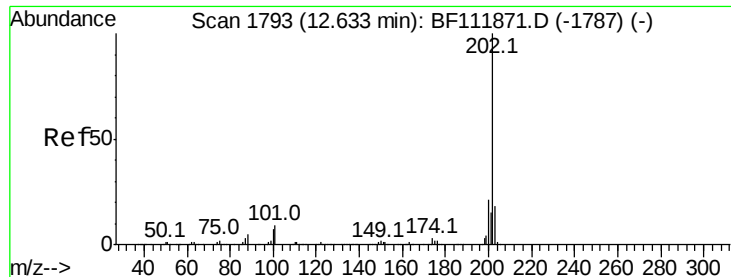
Tot Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.6	23.4
179	15.4	12.6	18.8



#72
Anthracene
Concen: 6.817 ng
RT: 11.49 min Scan# 1599
Delta R.T. -0.00 min
Lab File: BF111974.D
Acq: 10 Jan 2019 3:27

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.7	23.5
179	15.8	12.4	18.6





#75

Fluoranthene

Concen: 21.652 ng

RT: 12.63 min Scan# 1793

Delta R.T. -0.00 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

Instrument :

BNA_F

ClientSampleId :

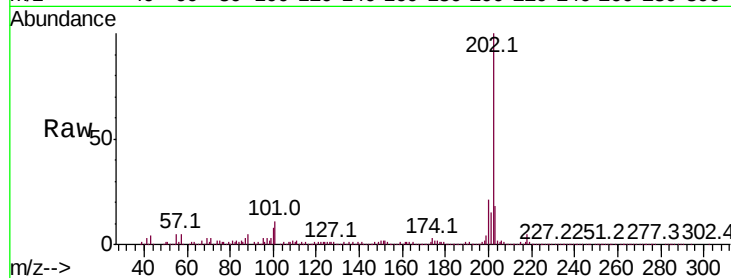
Tot Ion:202 Resp: 336144

Ion Ratio Lower Upper

202 100

101 10.5 0.0 29.3

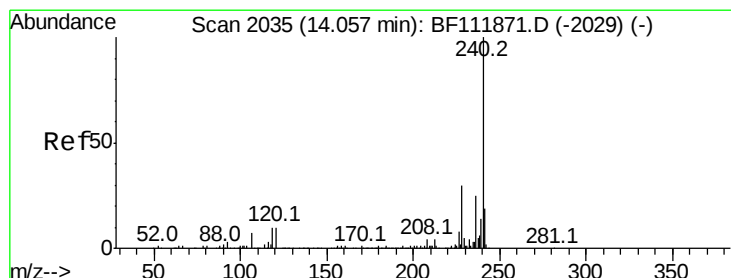
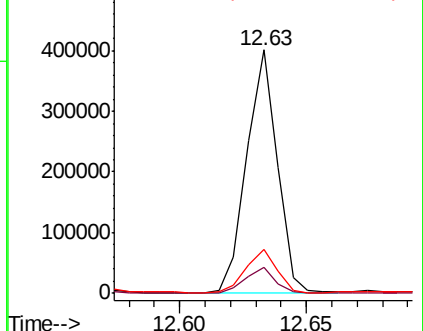
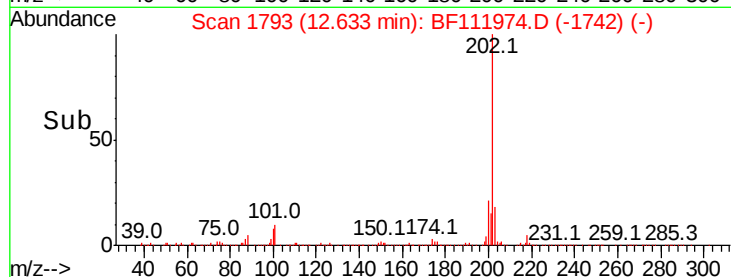
203 18.1 0.0 37.6



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: 14.06 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

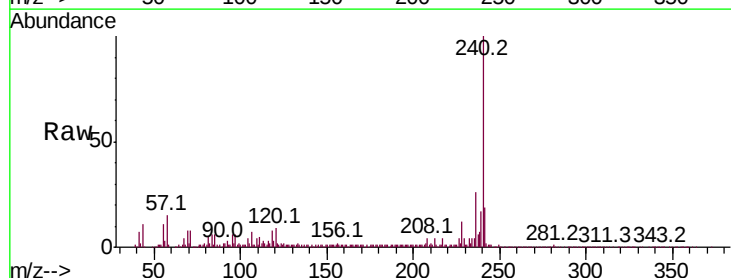
Tgt Ion:240 Resp: 193151

Ion Ratio Lower Upper

240 100

120 9.4 8.2 12.2

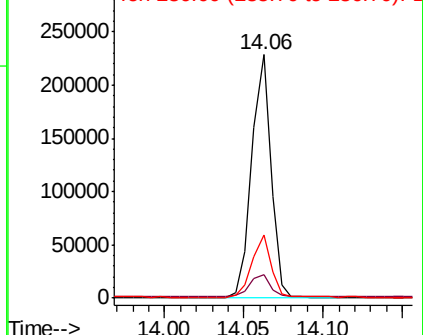
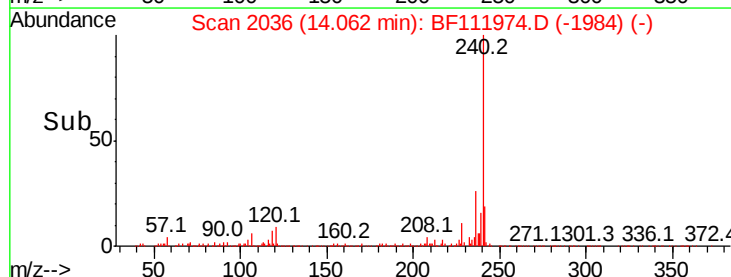
236 25.9 20.2 30.4

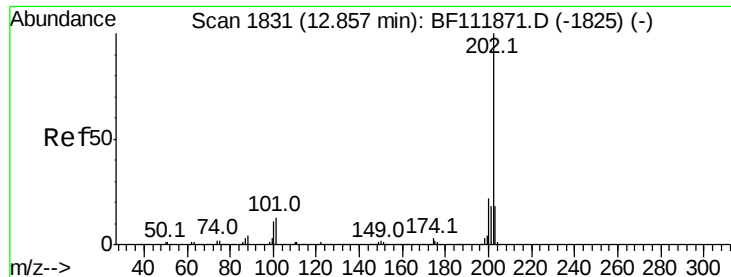


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 32.615 ng

RT: 12.86 min Scan# 1832

Delta R.T. 0.01 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

Instrument :

BNA_F

ClientSampleId :

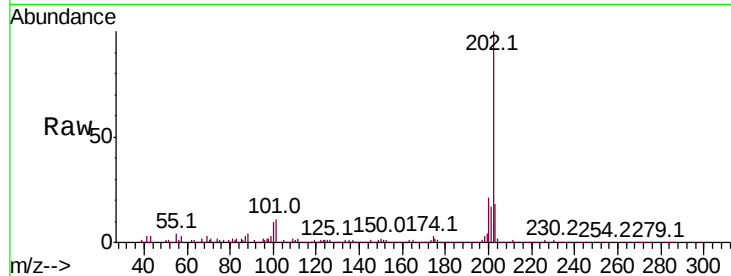
Tot Ion:202 Resp: 433453

Ion Ratio Lower Upper

202 100

200 21.4 17.4 26.2

203 17.9 14.6 21.8

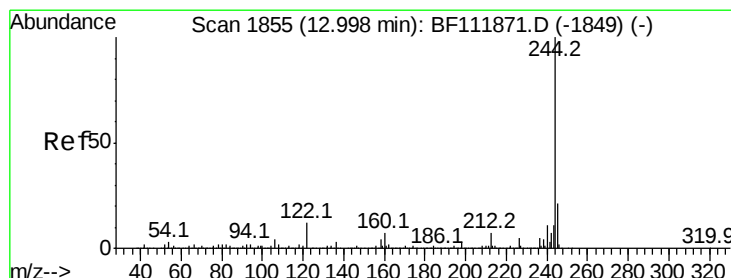
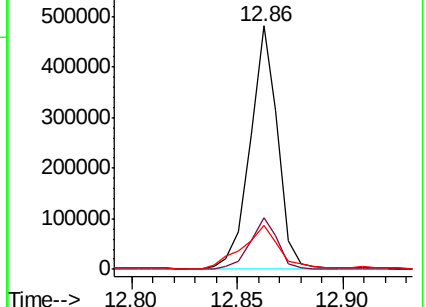
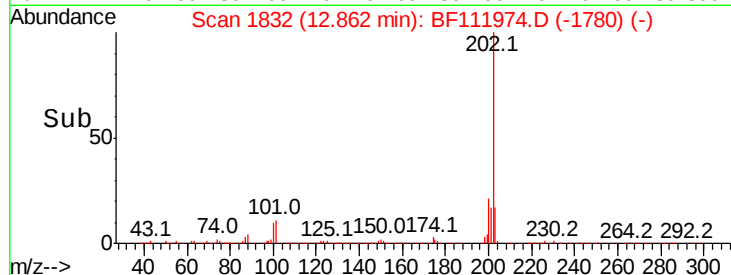


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

12.86



#79

Terphenyl-d14

Concen: 6.339 ng

RT: 13.00 min Scan# 1855

Delta R.T. -0.00 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

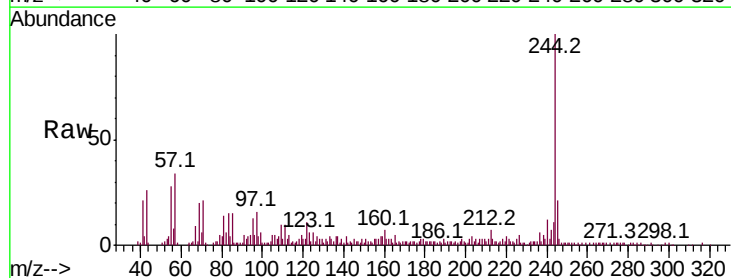
Tgt Ion:244 Resp: 64499

Ion Ratio Lower Upper

244 100

212 7.1 5.8 8.8

122 10.6 9.5 14.3

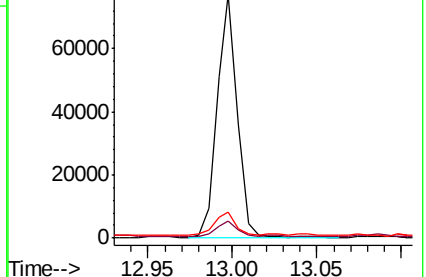
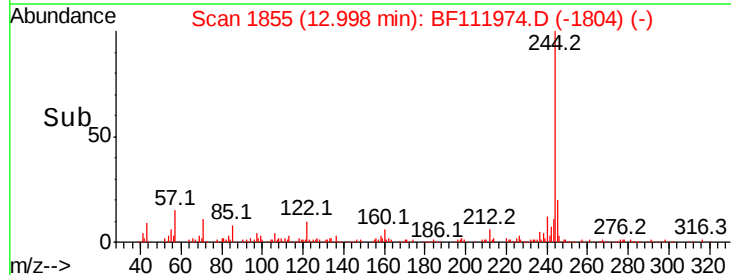


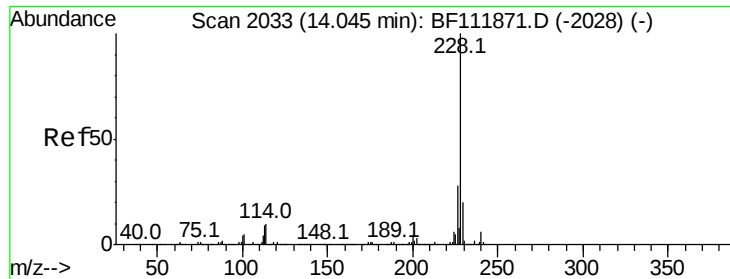
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

13.00





#81

Benzo(a)anthracene

Concen: 14.067 ng

RT: 14.05 min Scan# 2034

Delta R.T. 0.01 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

Instrument :

BNA_F

ClientSampleId :

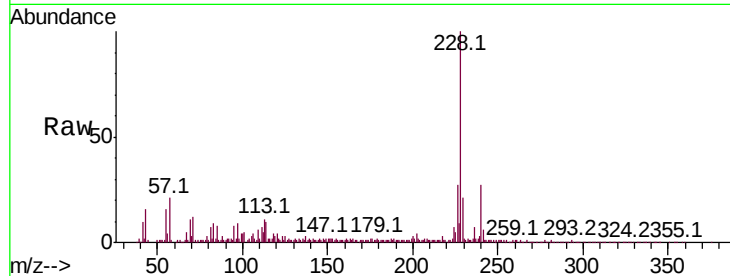
Tot Ion:228 Resp: 156370

Ion Ratio Lower Upper

228 100

226 27.4 22.2 33.2

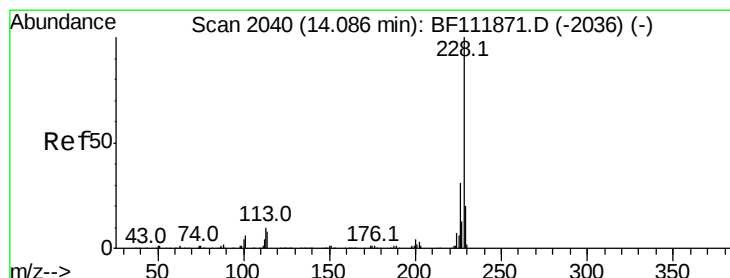
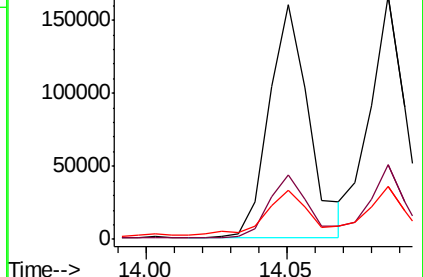
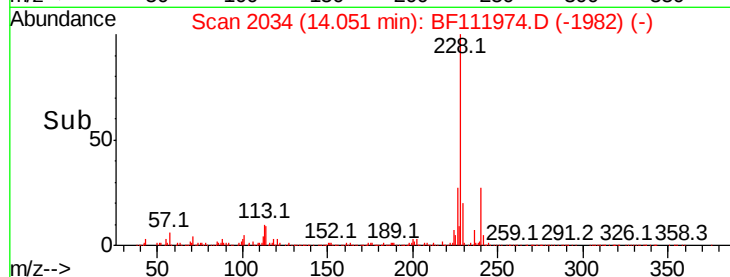
229 20.9 16.2 24.2



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 13.393 ng

RT: 14.09 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BF111974.D

Acq: 10 Jan 2019 3:27

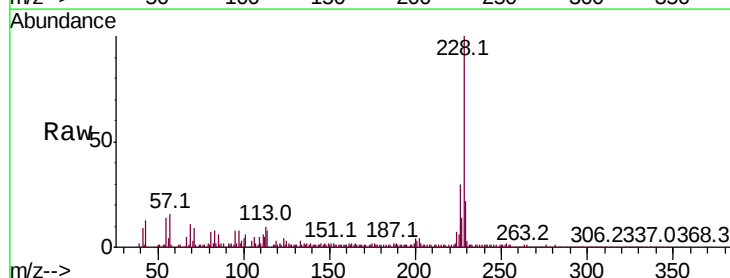
Tgt Ion:228 Resp: 141952

Ion Ratio Lower Upper

228 100

226 30.5 24.6 37.0

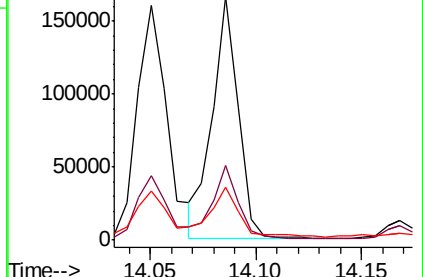
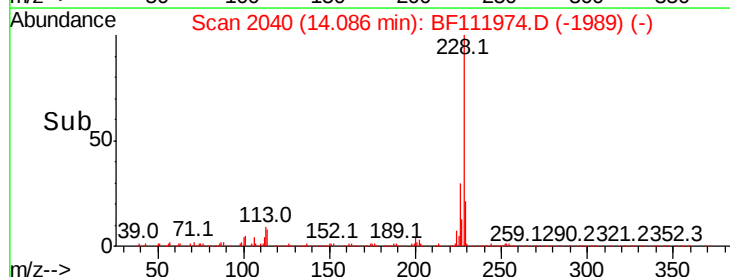
229 21.6 15.7 23.5

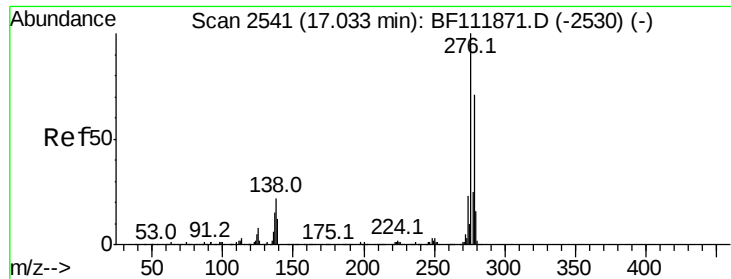


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

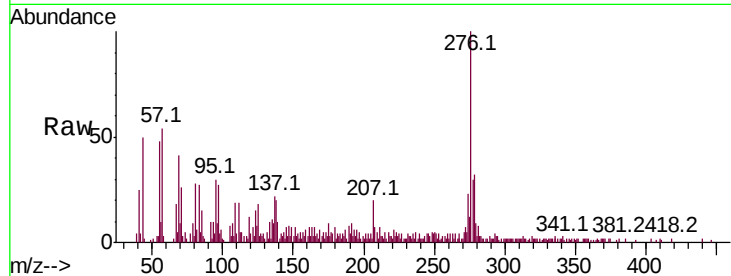




#86
 Indeno(1,2,3-cd)pyrene
 Concen: 5.768 ng
 RT: 17.05 min Scan# 2544
 Delta R.T. 0.02 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.5	18.1	27.1
277	23.3	19.9	29.9

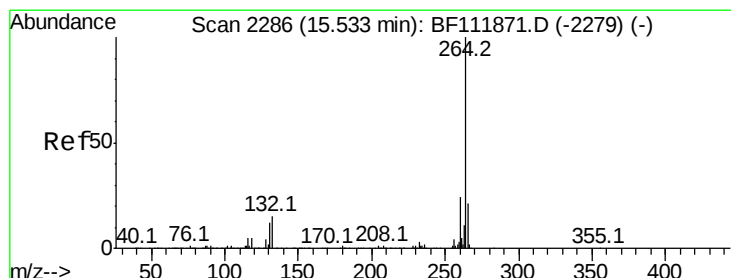
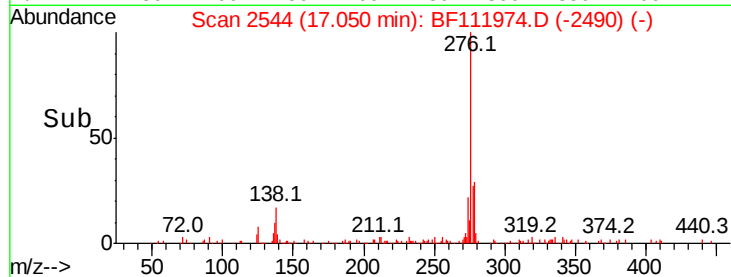
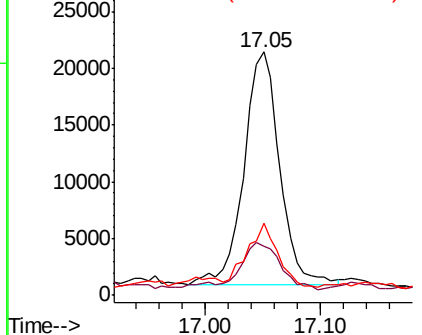


Abundance

Ion 276.00 (275.70 to 276.70): E

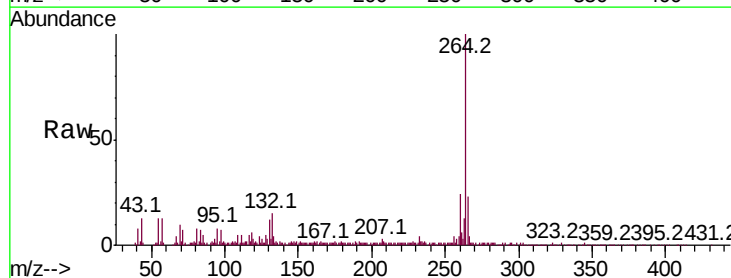
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.55 min Scan# 2289
 Delta R.T. 0.02 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.2	28.8
265	22.8	17.1	25.7

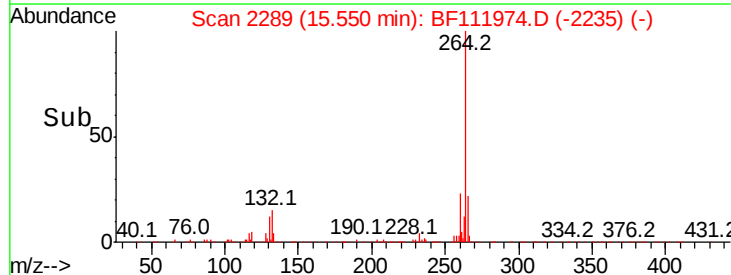
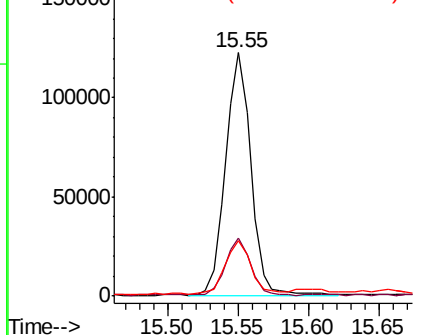


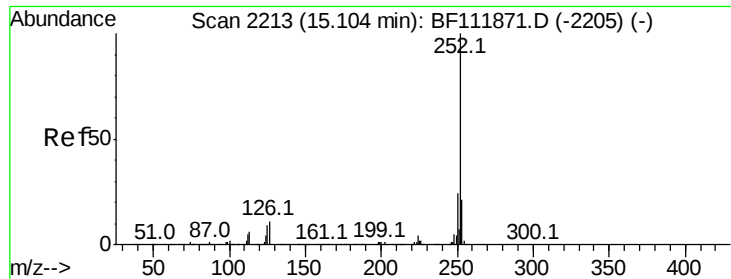
Abundance

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

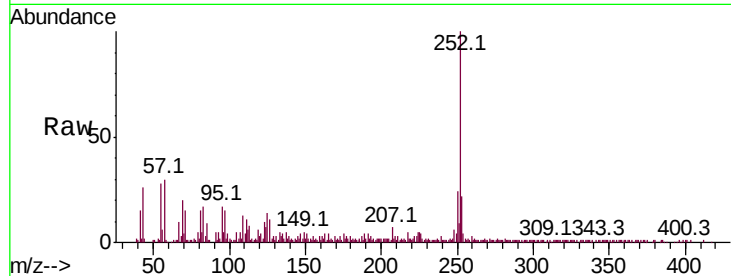




#88
Benzo(b)fluoranthene
Concen: 15.031 ng
RT: 15.12 min Scan# 2215
Delta R.T. 0.01 min
Lab File: BF111974.D
Acq: 10 Jan 2019 3:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.0	25.6
125	14.4	7.1	10.7

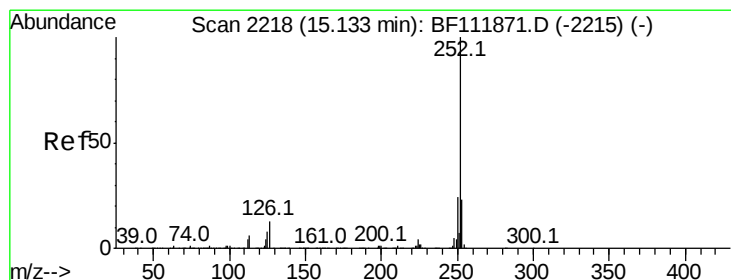
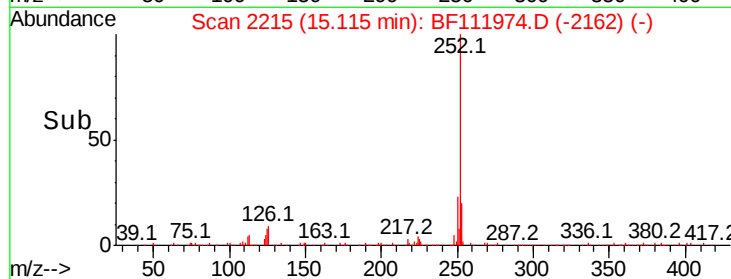
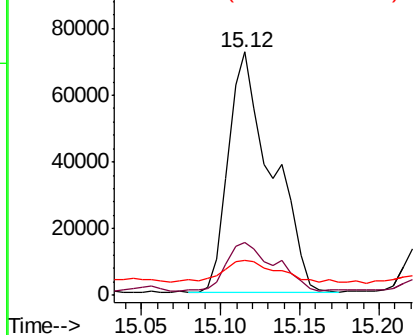


Abundance

Ion 252.00 (251.70 to 252.70): E

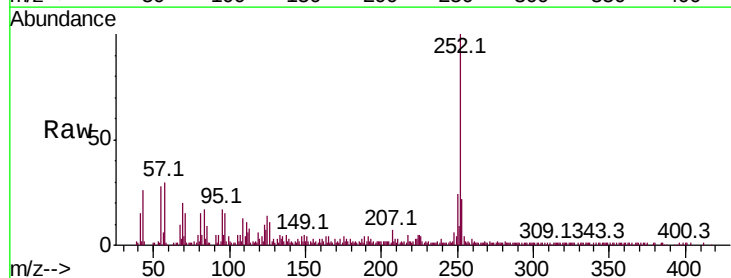
Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#89
Benzo(k)fluoranthene
Concen: 15.991 ng
RT: 15.12 min Scan# 2215
Delta R.T. -0.02 min
Lab File: BF111974.D
Acq: 10 Jan 2019 3:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.6
125	14.4	7.0	10.4

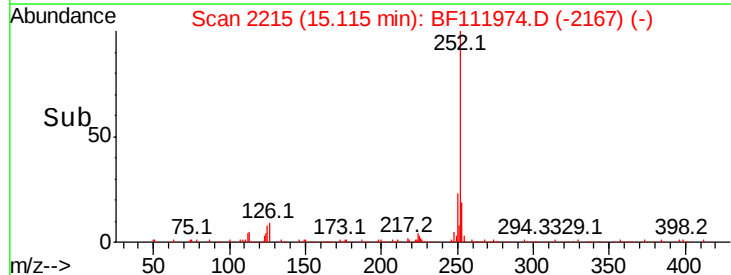
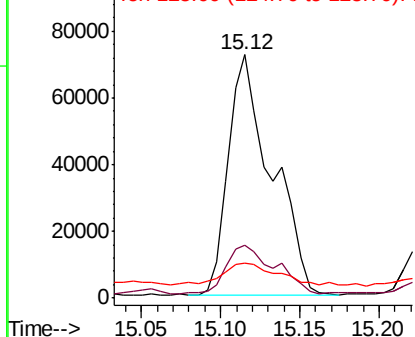


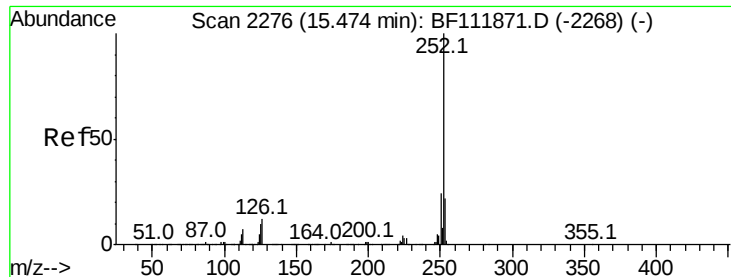
Abundance

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

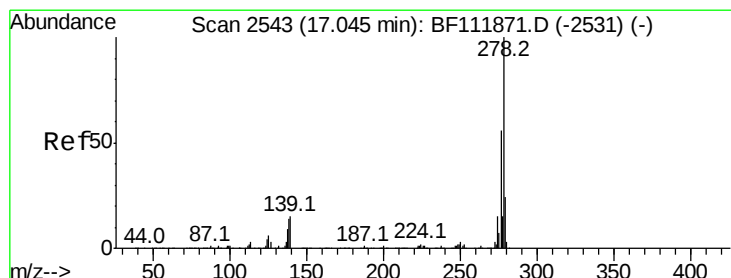
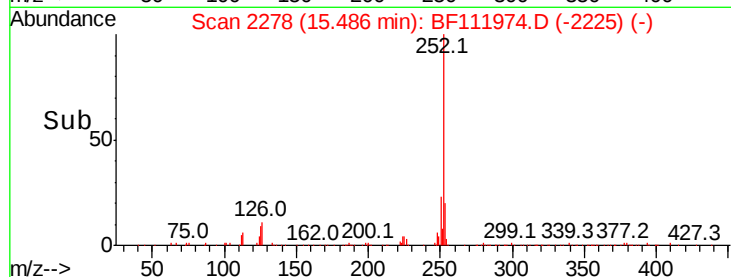
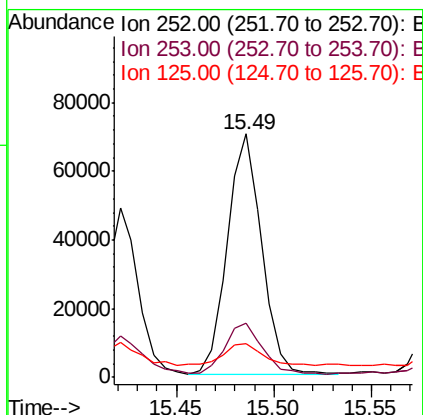
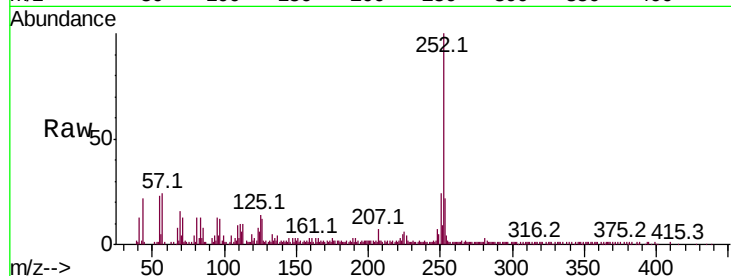




#90
Benzo(a)pyrene
Concen: 10.697 ng
RT: 15.49 min Scan# 2278
Delta R.T. 0.01 min
Lab File: BF111974.D
Acq: 10 Jan 2019 3:27

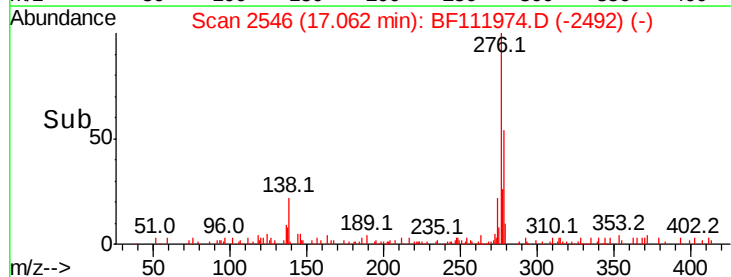
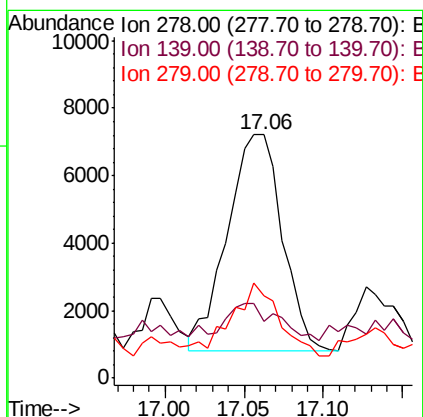
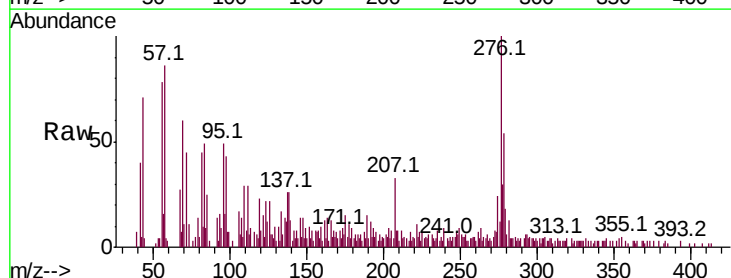
Instrument :
BNA_F
ClientSampled :

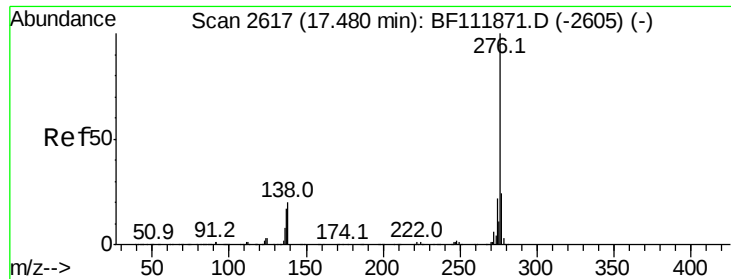
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.4	26.2
125	14.0	7.9	11.9#



#91
Dibenzo(a,h)anthracene
Concen: 2.379 ng
RT: 17.06 min Scan# 2546
Delta R.T. 0.02 min
Lab File: BF111974.D
Acq: 10 Jan 2019 3:27

Tgt Ion	Ratio	Lower	Upper
278	100		
139	23.3	11.8	17.6#
279	33.8	19.4	29.2#





#92
 Benzo(a,h,i)perylene
 Concen: 7.140 ng
 RT: 17.51 min Scan# 2622
 Delta R.T. 0.03 min
 Lab File: BF111974.D
 Acq: 10 Jan 2019 3:27

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	27.6	19.0	28.6	
138	20.3	16.2	24.2	

