

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100917\
 Data File : BF099284.D
 Acq On : 10 Oct 2017 1:28
 Operator : SJ/JU
 Sample : I5715-07 25X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 10 04:45:40 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 05 17:20:48 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	102147	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	420048	20.00	ng	0.00
38) Acenaphthene-d10	9.90	164	183002	20.00	ng	0.00
63) Phenanthrene-d10	11.39	188	279413	20.00	ng	0.00
75) Chrysene-d12	14.03	240	191739	20.00	ng	0.00
86) Perylene-d12	15.50	264	197523	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.48	112	26487	4.13	ng	0.00
7) Phenol-d6	6.49	99	33426	4.22	ng	-0.01
23) Nitrobenzene-d5	7.42	82	17802	2.72	ng	-0.01
41) 2,4,6-Tribromophenol	10.69	330	4826	3.22	ng	-0.01
44) 2-Fluorobiphenyl	9.22	172	44060	4.02	ng	-0.01
78) Terphenyl-d14	12.96	244	27965	3.32	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) 2,6-Dinitrotoluene	9.90	165	24730	8.22	ng	# 25
51) Acenaphthene	9.93	154	23475	2.05	ng	97
54) Dibenzofuran	10.10	168	34759	2.28	ng	96
55) 4-Nitrophenol	10.10	139	12251	4.13	ng	# 9
56) 2,4-Dinitrotoluene	9.90	165	24730	6.34	ng	# 22
57) Fluorene	10.45	166	50021	4.08	ng	96
70) Phenanthrene	11.41	178	261805	17.50	ng	99
71) Anthracene	11.46	178	101678	6.64	ng	96
74) Fluoranthene	12.60	202	251174	16.58	ng	98
77) Pyrene	12.83	202	197254	13.49	ng	98
80) Benzo(a)anthracene	14.02	228	112274	9.67	ng	99
82) Chrysene	14.05	228	84895	7.68	ng	98
85) Indeno(1,2,3-cd)pyrene	16.98	276	37969	4.29	ng	100
87) Benzo(b)fluoranthene	15.07	252	154608	12.73	ng	# 96
88) Benzo(k)fluoranthene	15.07	252	154608	12.89	ng	98
89) Benzo(a)pyrene	15.44	252	81665	7.33	ng	98
91) Benzo(a,h,i)perylene	17.43	276	31049	3.52	ng	98

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

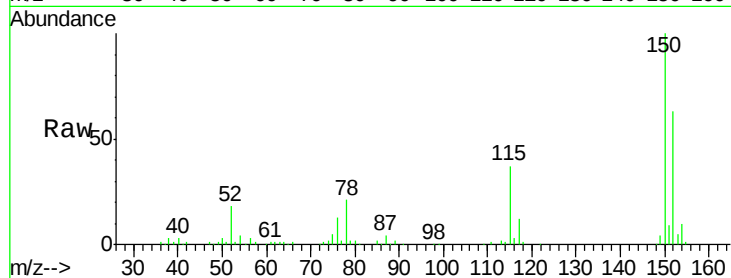


#1

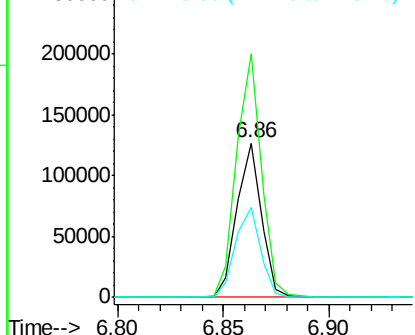
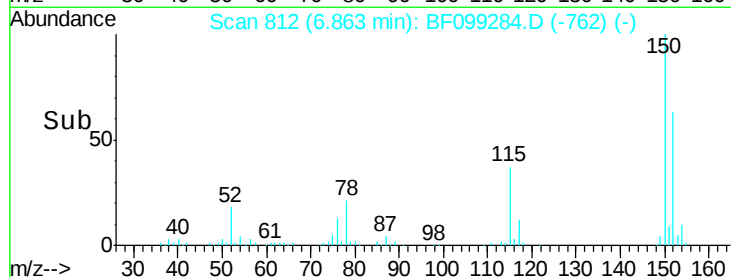
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.86 min Scan# 812
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	152	Resp	102147
Ion	Ratio	Lower	Upper
152	100		
150	157.5	124.6	186.8
115	58.3	50.1	75.1



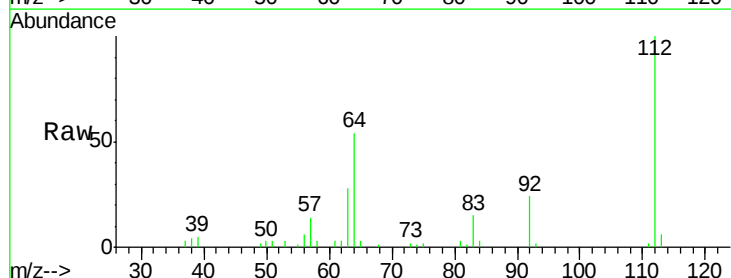
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



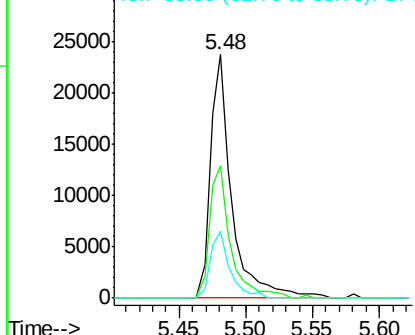
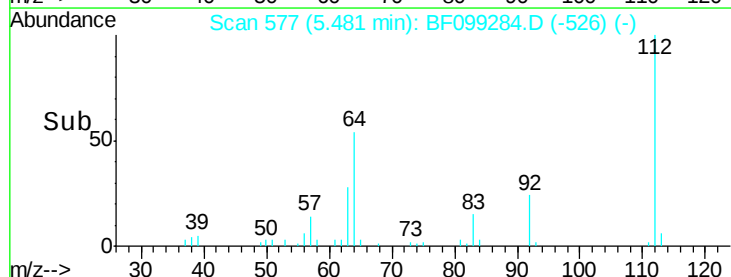
#5

2-Fluorophenol
 Concen: 4.13 ng
 RT: 5.48 min Scan# 577
 Delta R.T. -0.00 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Tgt Ion	112	Resp	26487
Ion	Ratio	Lower	Upper
112	100		
64	54.2	47.9	71.9
63	27.5	23.7	35.5



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 4.22 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Instrument :

BNA_F

ClientSampleId :

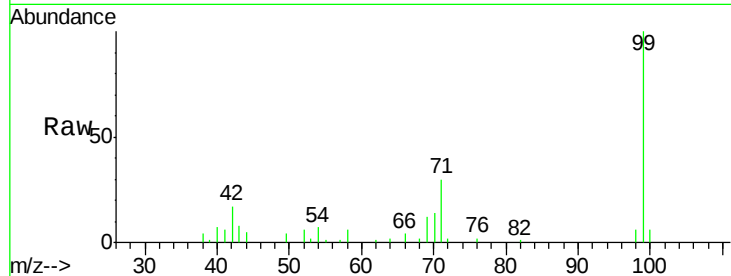
Tot Ion: 99 Resp: 33426

Ion Ratio Lower Upper

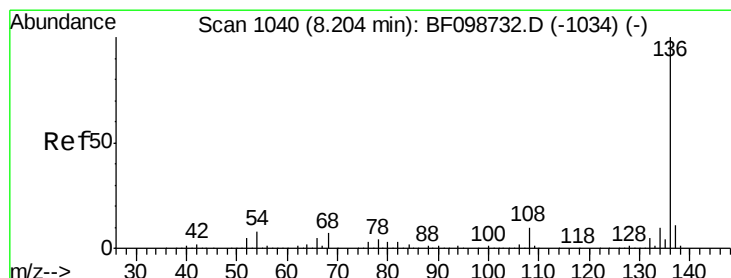
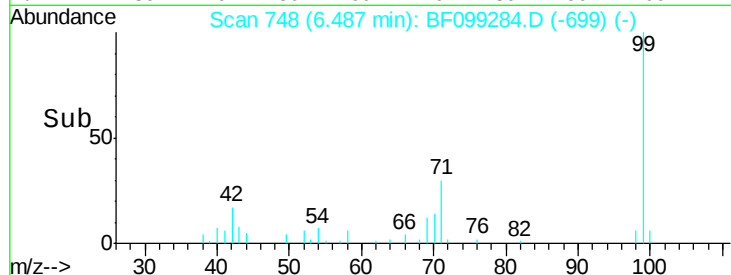
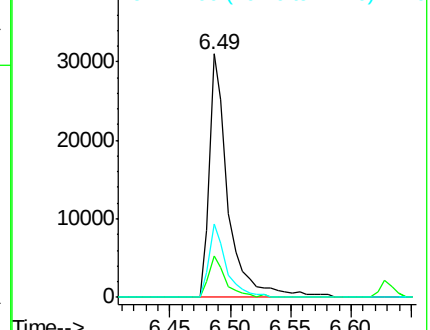
99 100

42 17.2 14.5 21.7

71 30.3 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Tgt Ion: 136 Resp: 420048

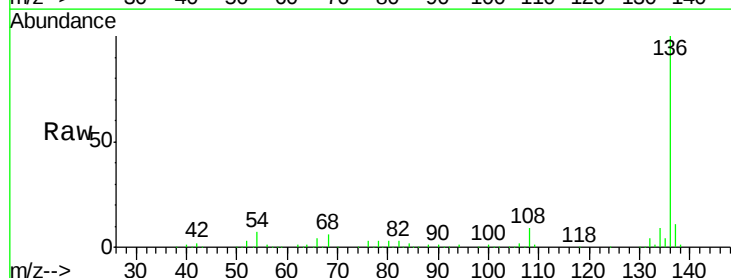
Ion Ratio Lower Upper

136 100

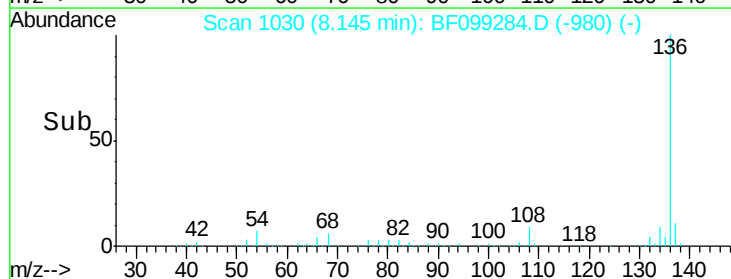
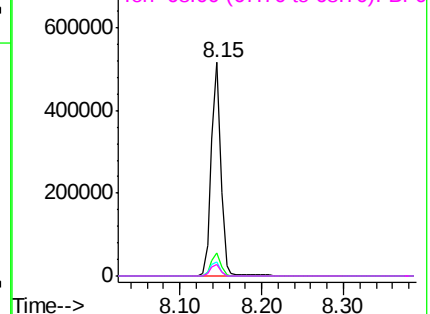
137 10.9 8.9 13.3

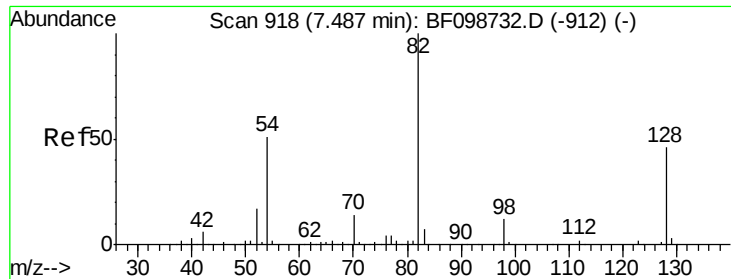
54 6.9 6.6 9.8

68 5.6 5.0 7.4



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): BF0
Ion 68.00 (67.70 to 68.70): BF0

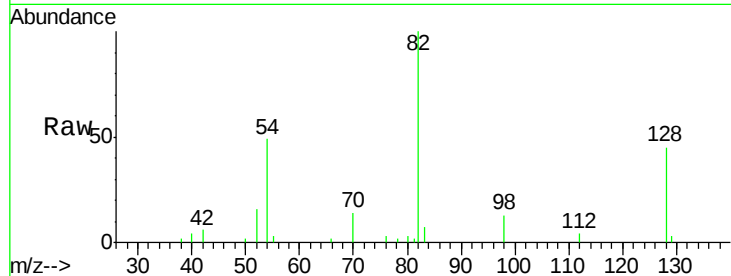




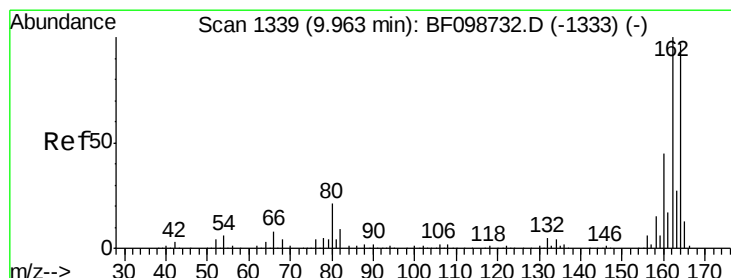
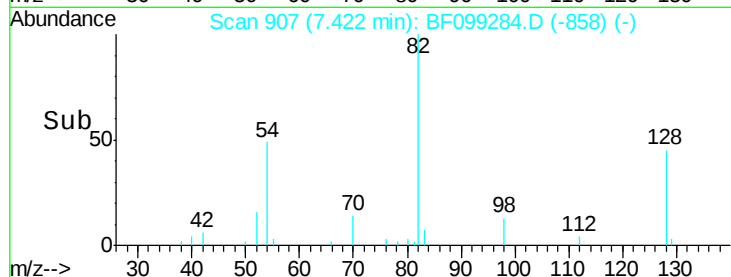
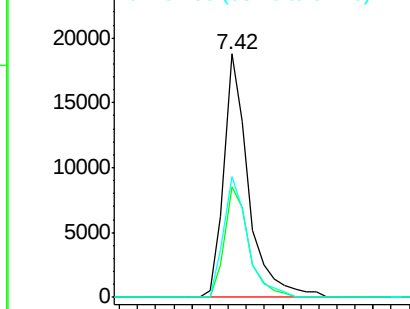
#23
 Nitrobenzene-d5
 Concen: 2.72 ng
 RT: 7.42 min Scan# 907
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	82	Resp	17802
Ion Ratio	100	Lower	Upper
128	45.5	36.1	54.1
54	49.4	41.4	62.2

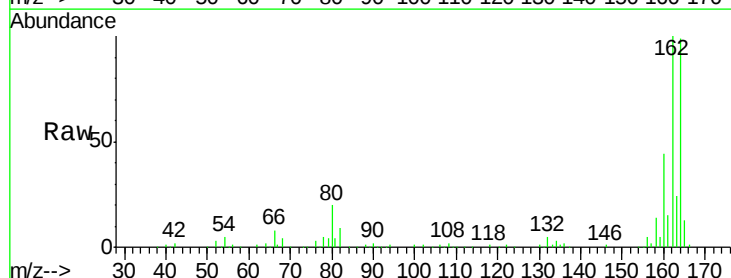


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): B
 Ion 54.00 (53.70 to 54.70): BF0

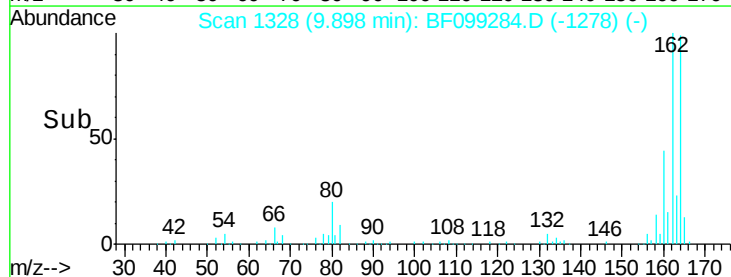
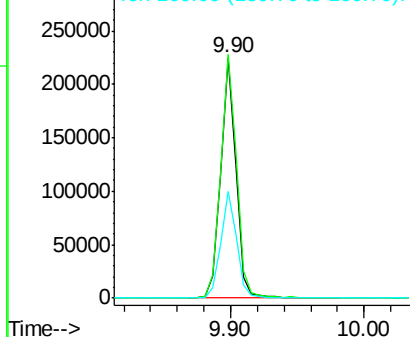


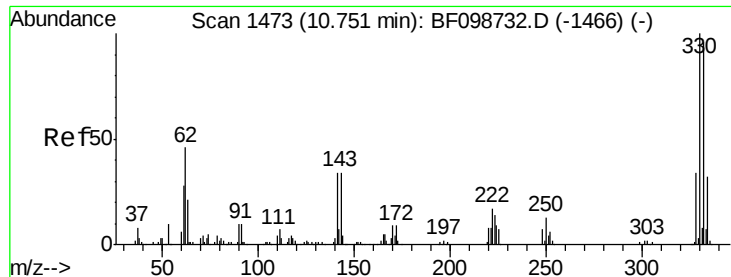
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.90 min Scan# 1328
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Tgt Ion	164	Resp	183002
Ion Ratio	100	Lower	Upper
162	101.5	86.1	129.1
160	44.6	38.3	57.5



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

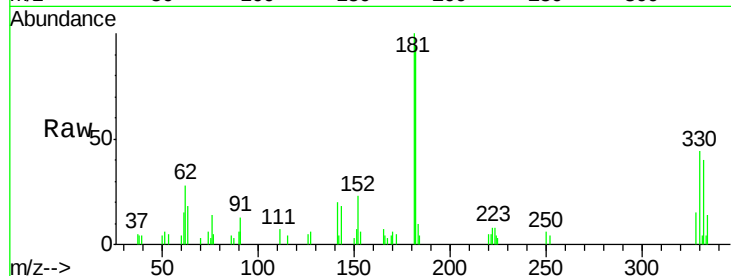




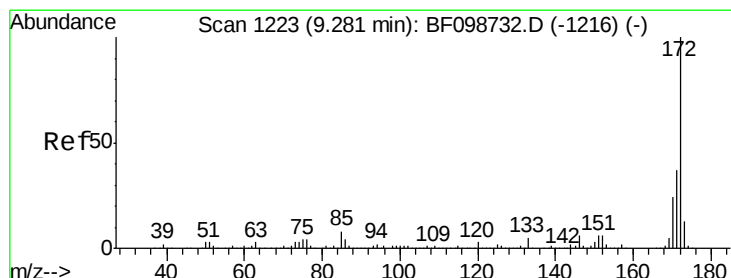
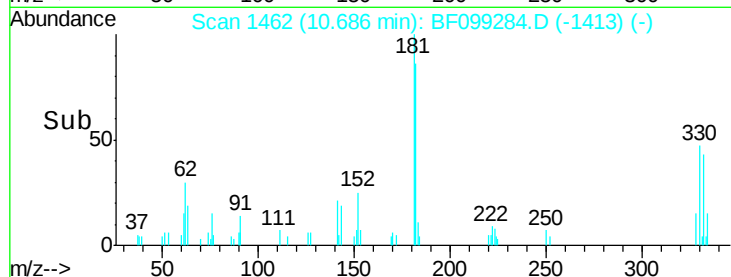
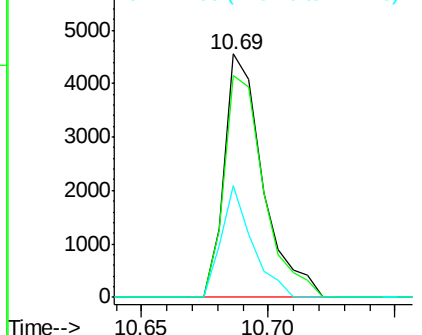
#41
 2,4,6-Tribromophenol
 Concen: 3.22 ng
 RT: 10.69 min Scan# 1462
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	330	332	141	Resp	Lower	Upper
4826	100	93.9	36.9		77.0	115.6
					29.9	44.9

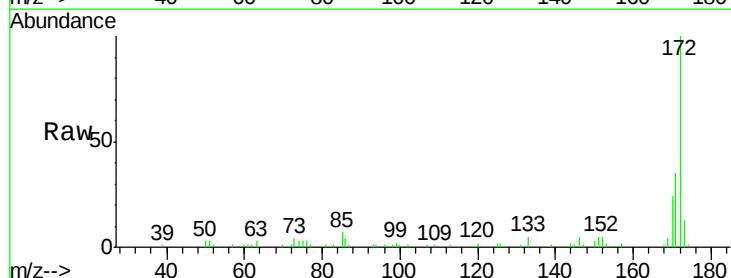


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

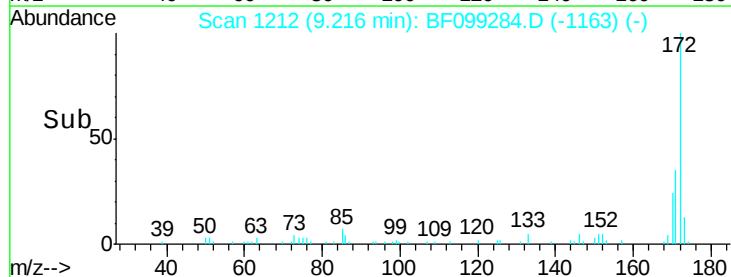
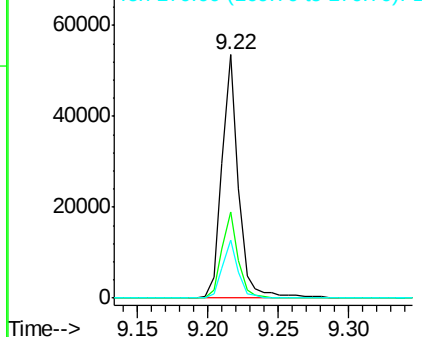


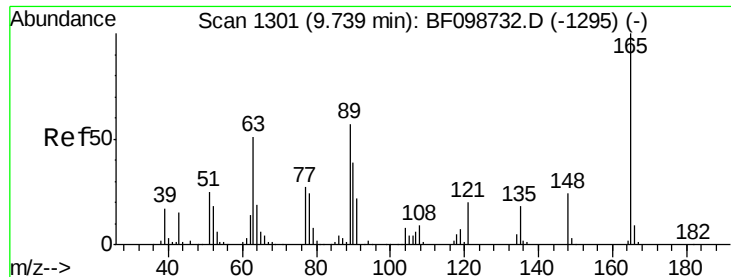
#44
 2-Fluorobiphenyl
 Concen: 4.02 ng
 RT: 9.22 min Scan# 1212
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Tgt Ion	172	171	170	Resp	Lower	Upper
44060	100	35.2	23.7		29.7	44.5
					19.6	29.4



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

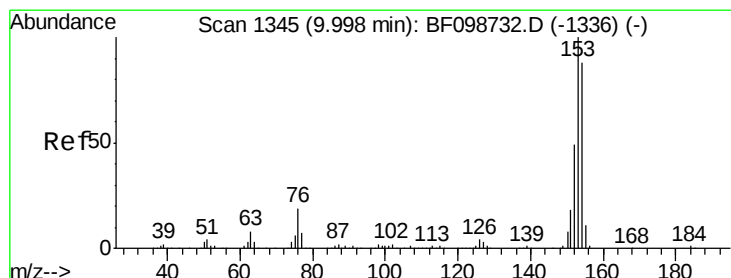
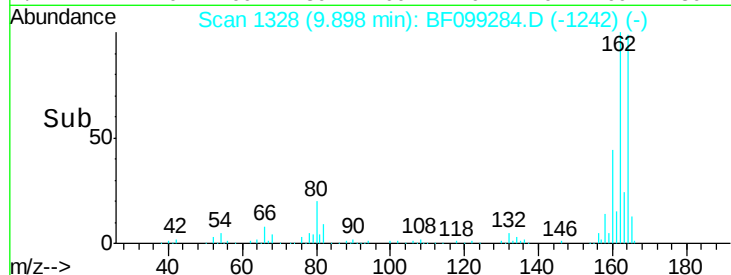
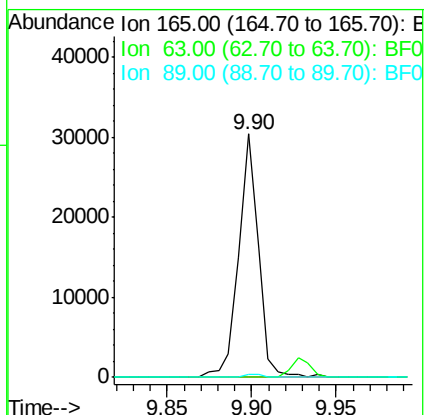
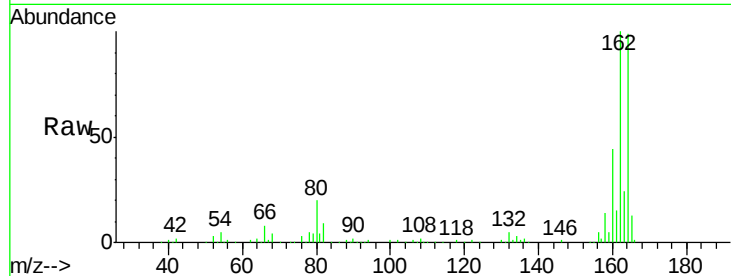




#50
2,6-Dinitrotoluene
Concen: 8.22 ng
RT: 9.90 min Scan# 1328
Delta R.T. 0.21 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

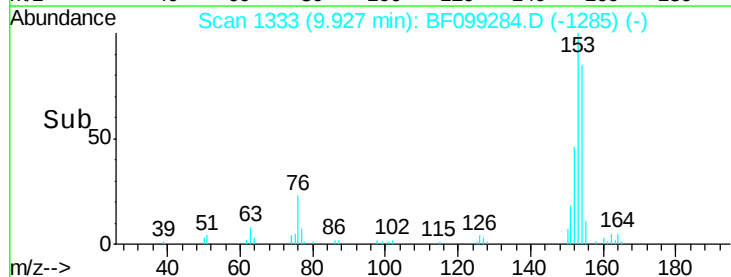
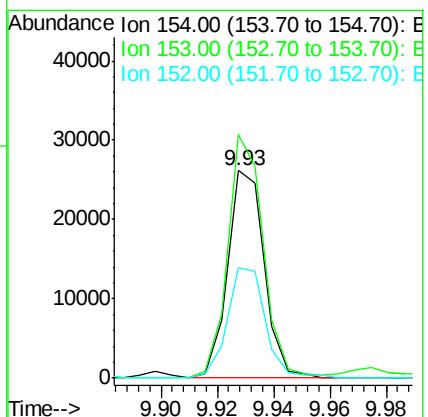
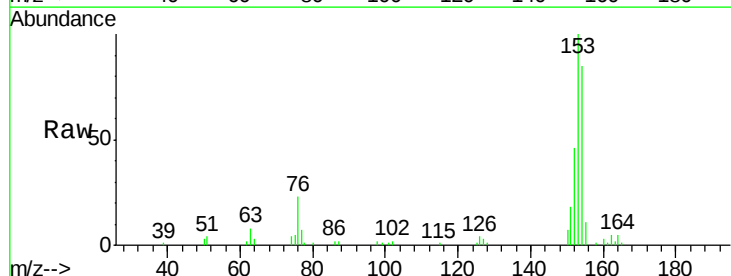
Instrument :
BNA_F
ClientSampleId :

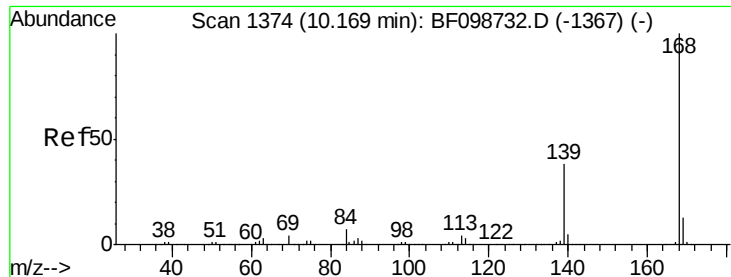
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.7	67.1#
89	1.4	44.0	66.0#



#51
Acenaphthene
Concen: 2.05 ng
RT: 9.93 min Scan# 1333
Delta R.T. -0.02 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.5	91.2	136.8
152	53.5	43.8	65.8





#54

Dibenzofuran

Concen: 2.28 ng

RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Instrument :

BNA_F

ClientSampleId :

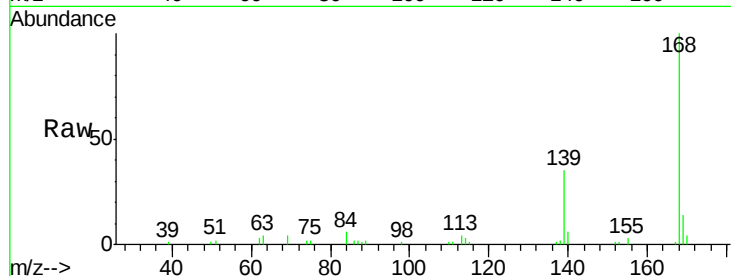
Tot Ion:168 Resp: 34759

Ion Ratio Lower Upper

168 100

139 34.8 30.1 45.1

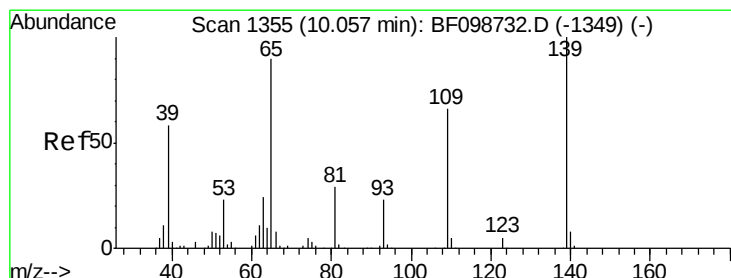
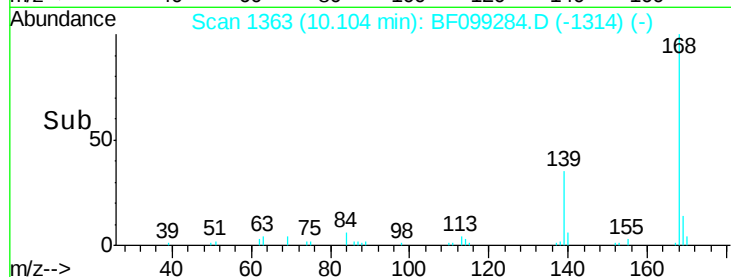
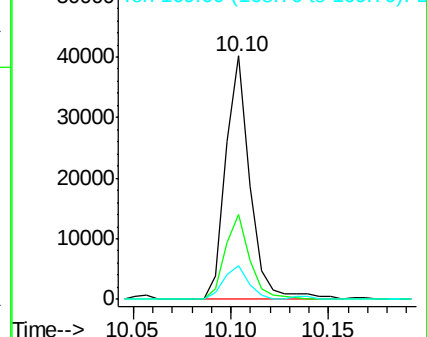
169 14.1 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 4.13 ng

RT: 10.10 min Scan# 1363

Delta R.T. 0.08 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

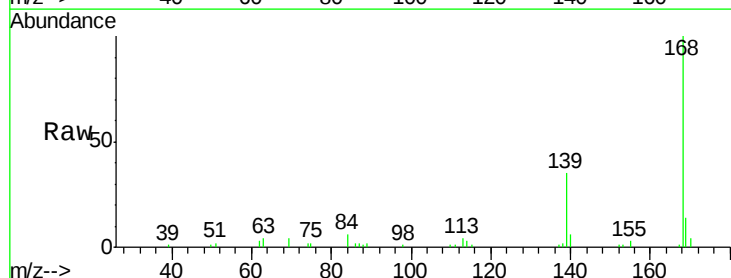
Tgt Ion:139 Resp: 12251

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

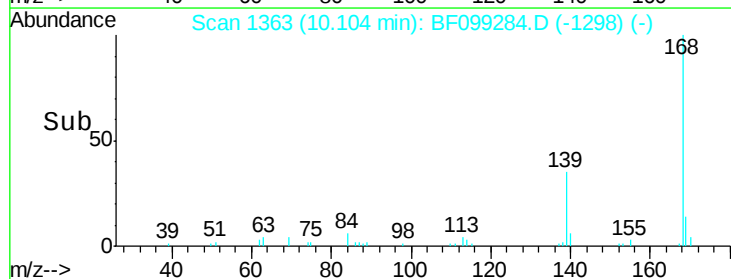
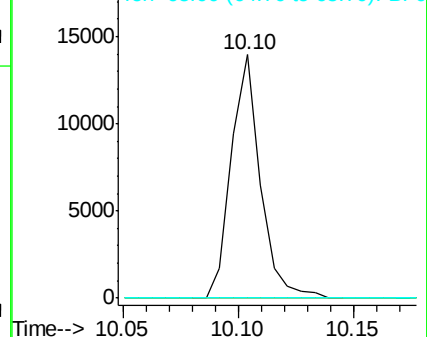
65 0.0 72.6 112.6#



Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0

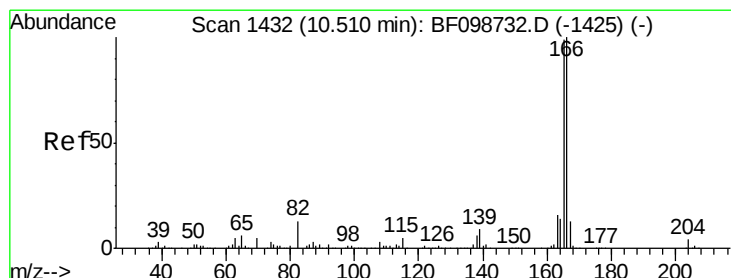
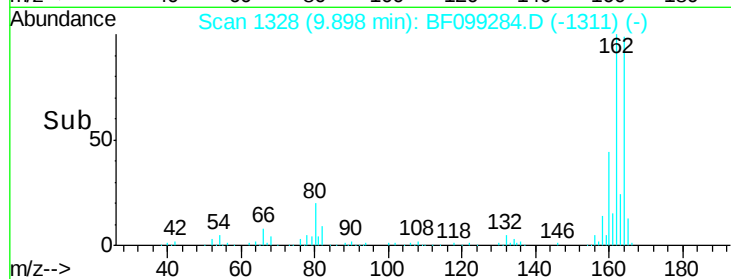
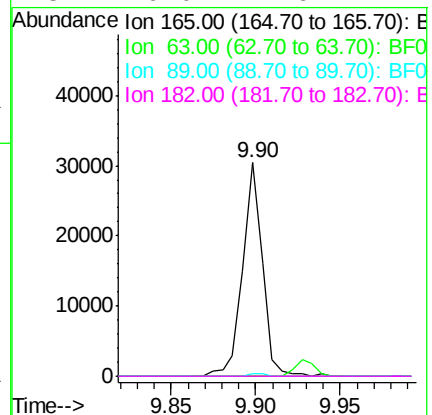
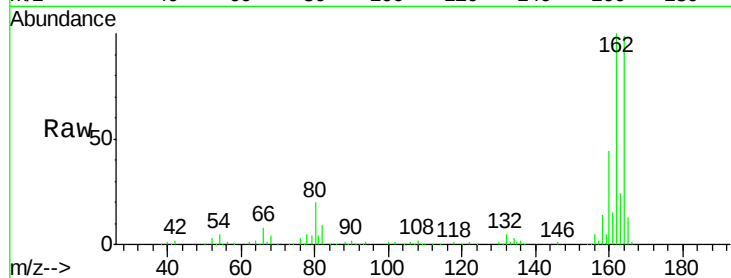




#56
2,4-Dinitrotoluene
Concen: 6.34 ng
RT: 9.90 min Scan# 1328
Delta R.T. -0.20 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

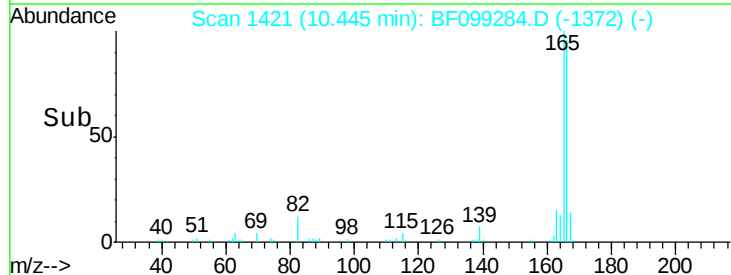
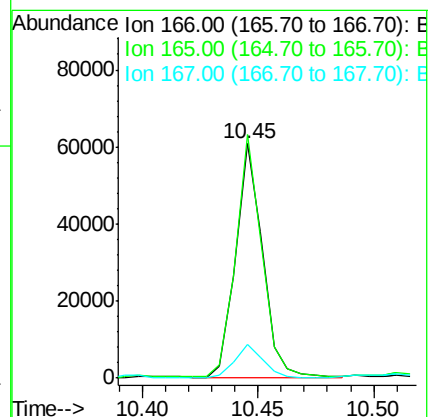
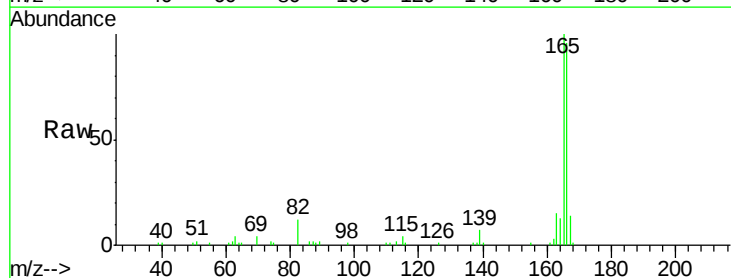
Instrument :
BNA_F
ClientSampleId :

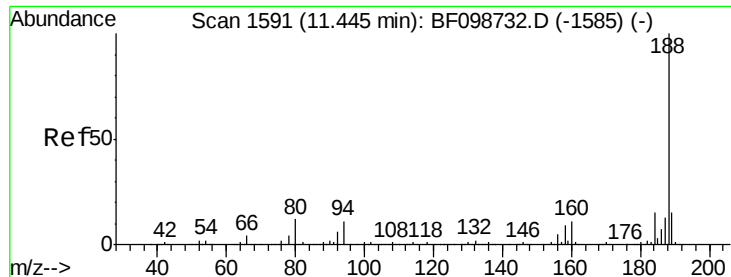
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.4	54.6#
89	1.4	57.8	86.6#
182	0.0	1.6	2.4#



#57
Fluorene
Concen: 4.08 ng
RT: 10.45 min Scan# 1421
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
166	100		
165	103.9	79.8	119.8
167	14.4	10.6	16.0

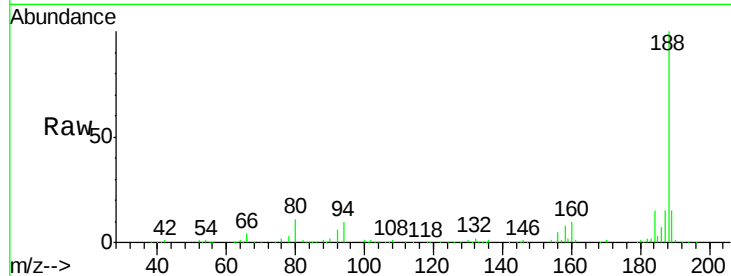




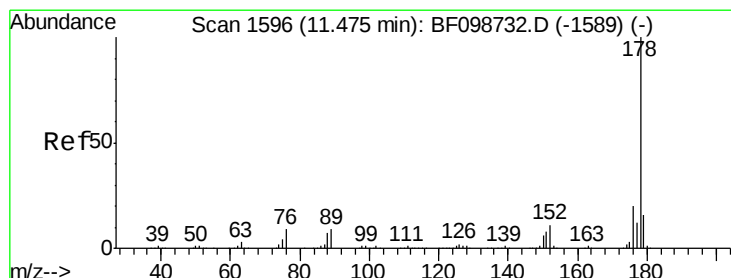
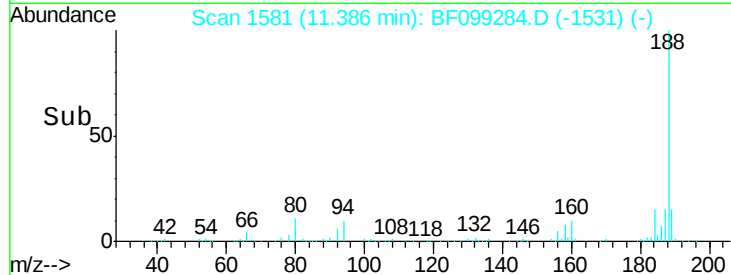
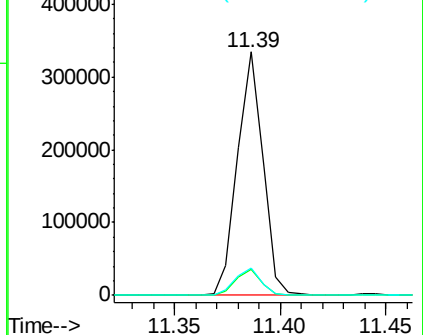
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.39 min Scan# 1581
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:188 Resp: 279413
 Ion Ratio Lower Upper
 188 100
 94 10.5 8.5 12.7
 80 11.4 9.2 13.8

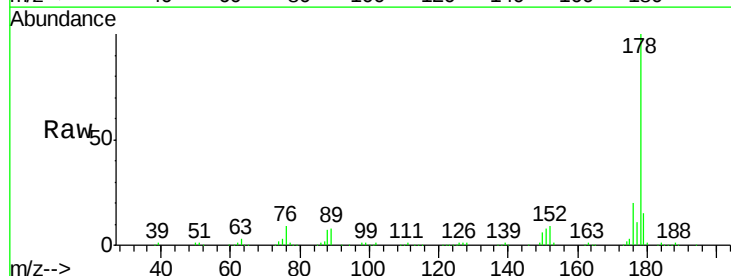


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

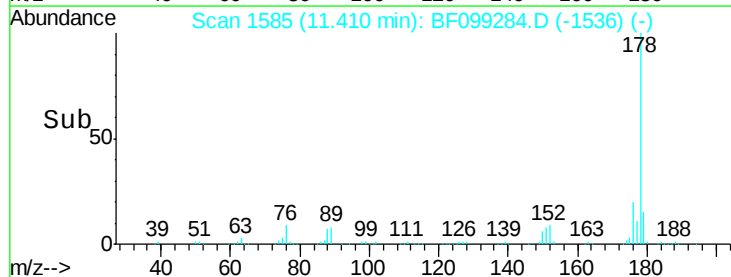
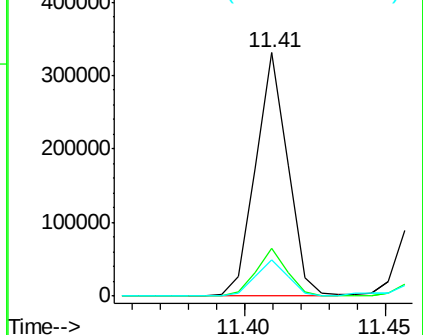


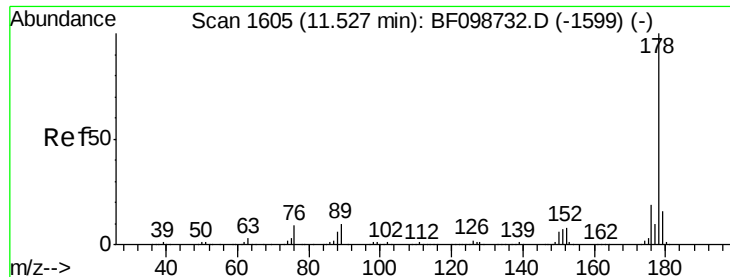
#70
 Phenanthrene
 Concen: 17.50 ng
 RT: 11.41 min Scan# 1585
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Tgt Ion:178 Resp: 261805
 Ion Ratio Lower Upper
 178 100
 176 19.6 15.8 23.8
 179 15.1 13.0 19.6



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

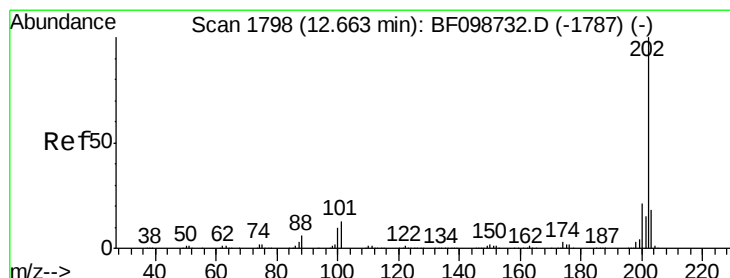
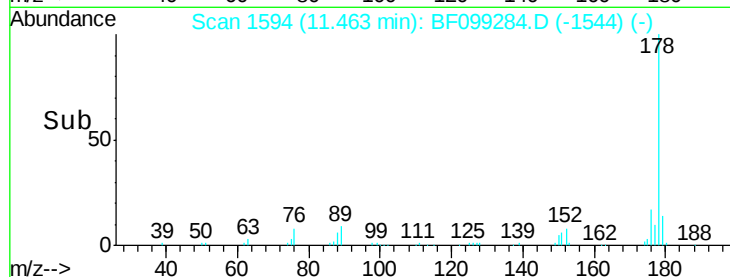
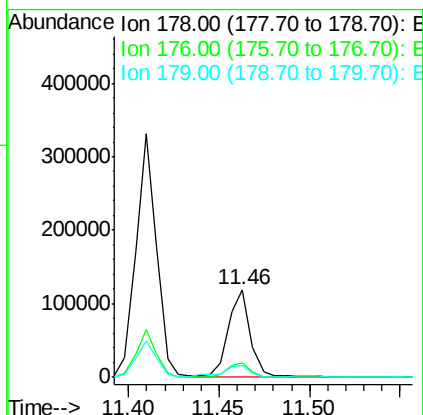
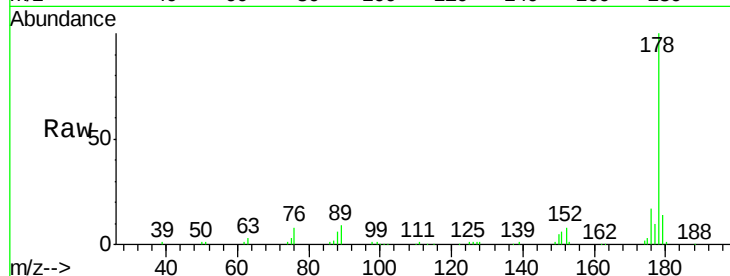




#71
 Anthracene
 Concen: 6.64 ng
 RT: 11.46 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

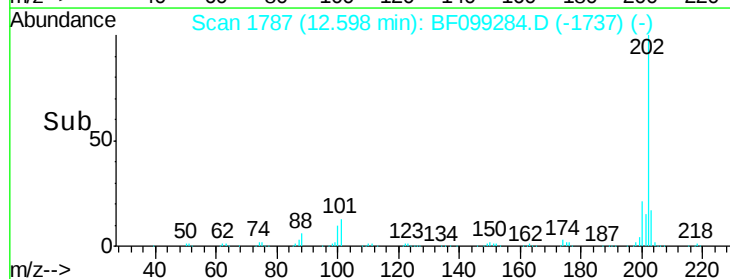
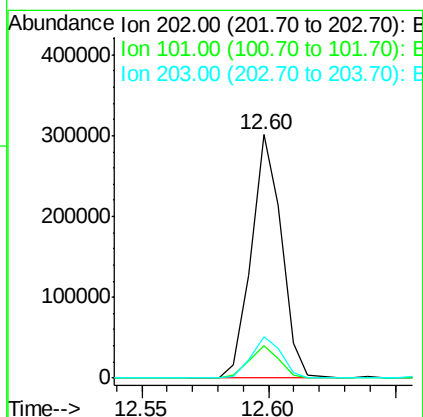
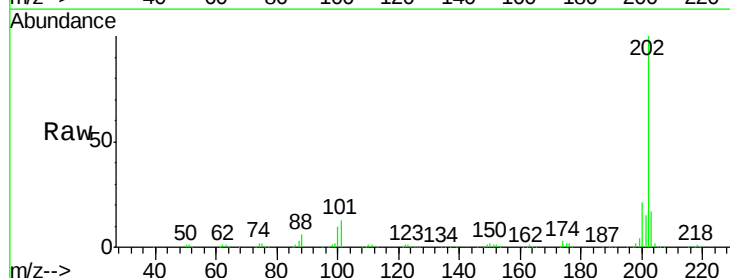
Instrument :
 BNA_F
 ClientSampleId :

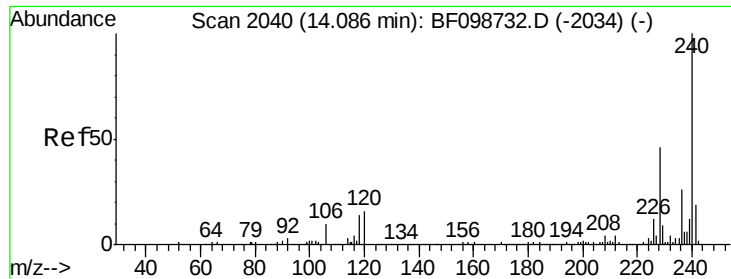
Tot Ion:178 Resp: 101678
 Ion Ratio Lower Upper
 178 100
 176 17.1 15.4 23.2
 179 14.1 12.6 19.0



#74
 Fluoranthene
 Concen: 16.58 ng
 RT: 12.60 min Scan# 1787
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Tgt Ion:202 Resp: 251174
 Ion Ratio Lower Upper
 202 100
 101 13.5 0.0 34.1
 203 17.2 0.0 38.1

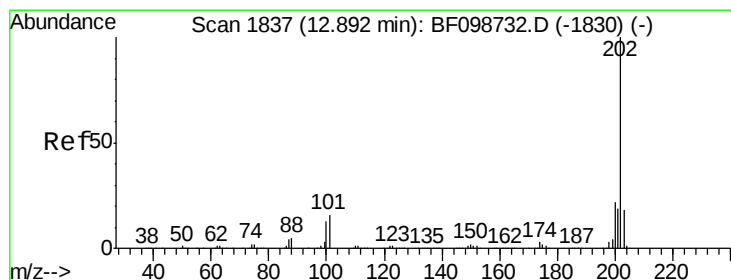
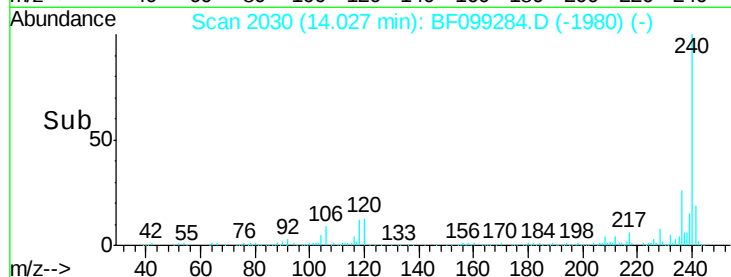
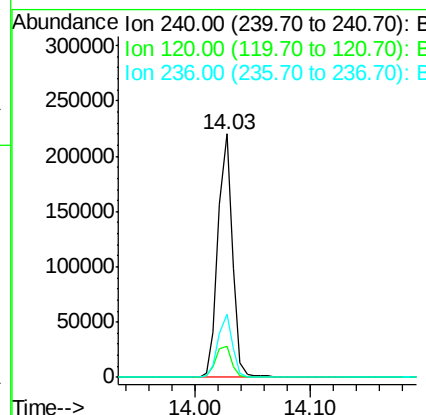
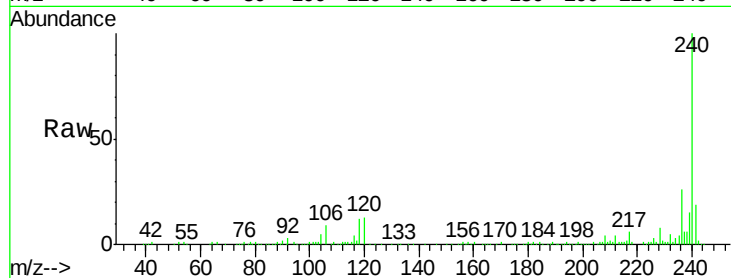




#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

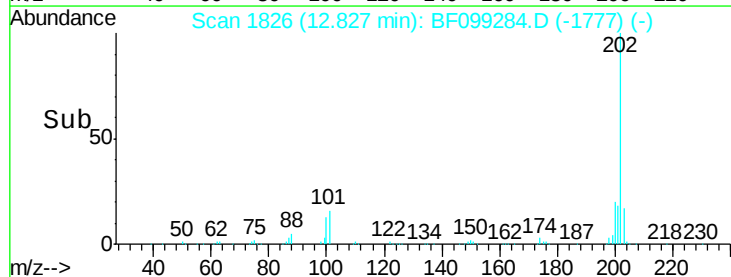
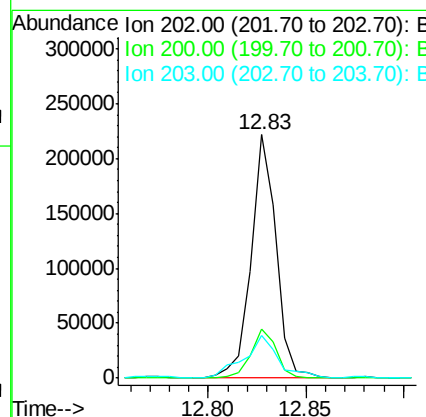
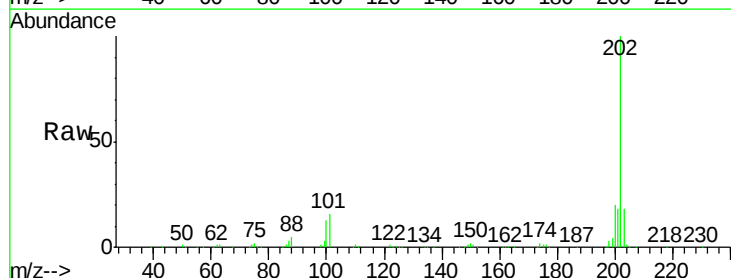
Instrument :
 BNA_F
 ClientSampled :

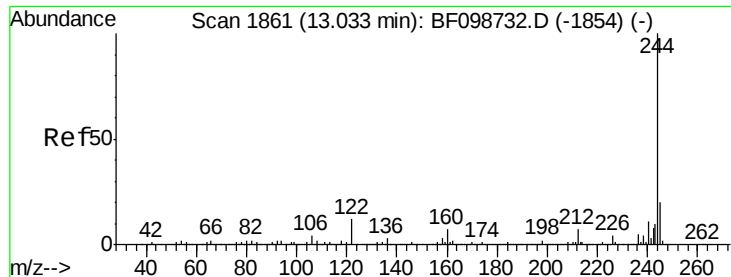
Tot Ion:240 Resp: 191739
 Ion Ratio Lower Upper
 240 100
 120 12.8 9.5 14.3
 236 25.8 20.7 31.1



#77
 Pyrene
 Concen: 13.49 ng
 RT: 12.83 min Scan# 1826
 Delta R.T. -0.01 min
 Lab File: BF099284.D
 Acq: 10 Oct 2017 1:28

Tgt Ion:202 Resp: 197254
 Ion Ratio Lower Upper
 202 100
 200 20.1 17.4 26.2
 203 17.7 14.3 21.5





#78

Terphenyl-d14

Concen: 3.32 ng

RT: 12.96 min Scan# 1849

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

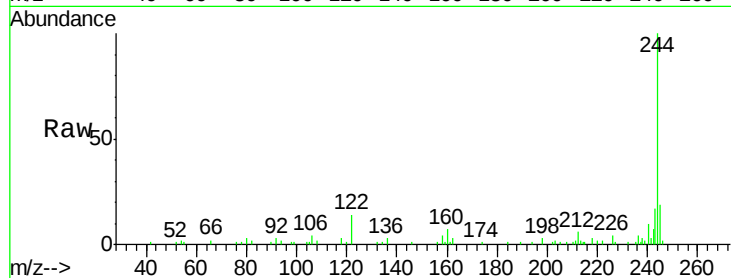
Instrument :

BNA_F

ClientSampleId :

Tot Ion:244 Resp: 27965

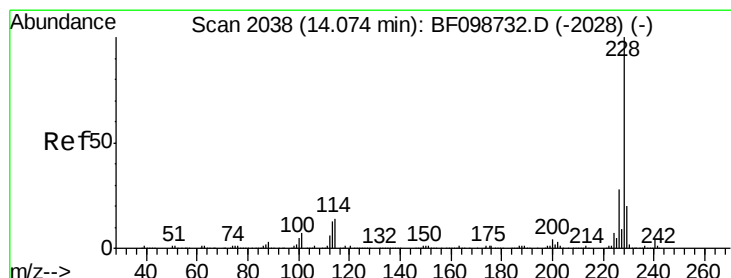
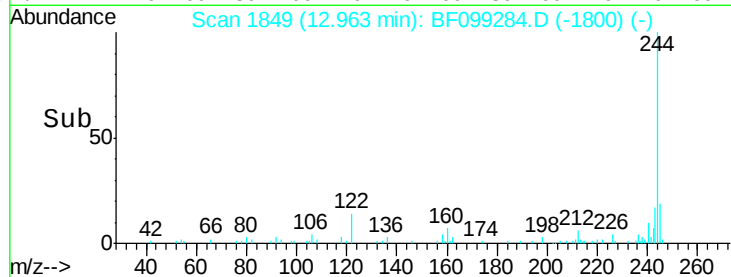
Ion	Ratio	Lower	Upper
244	100		
212	6.4	5.4	8.0
122	14.3	11.0	16.4



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



#80

Benzo(a)anthracene

Concen: 9.67 ng

RT: 14.02 min Scan# 2028

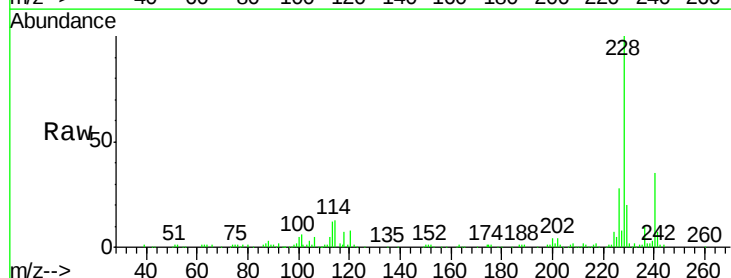
Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Tgt Ion:228 Resp: 112274

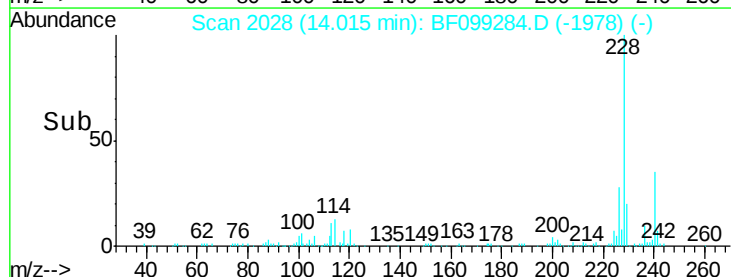
Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	20.4	15.8	23.6

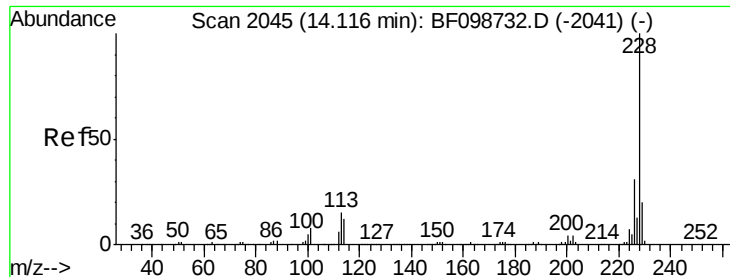


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.68 ng

RT: 14.05 min Scan# 2034

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Instrument :

BNA_F

ClientSampleId :

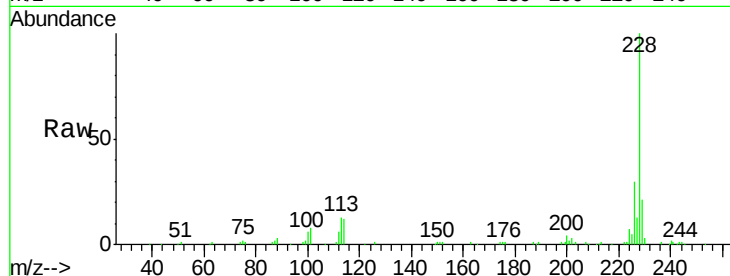
Tot Ion:228 Resp: 84895

Ion Ratio Lower Upper

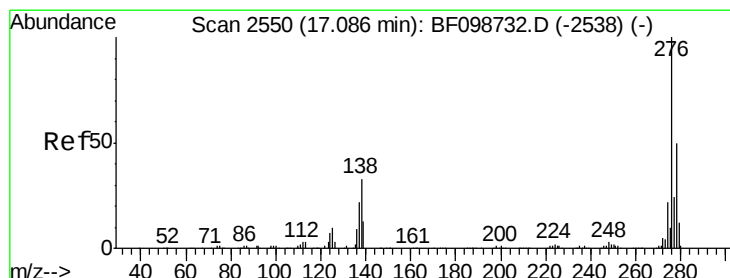
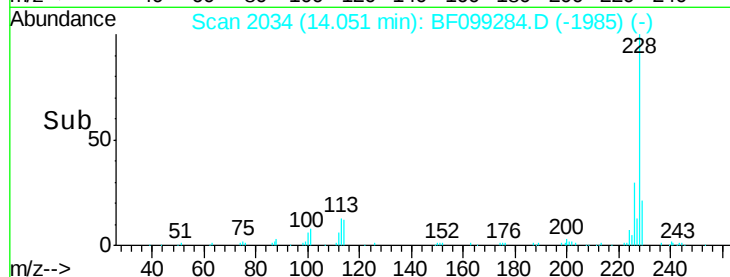
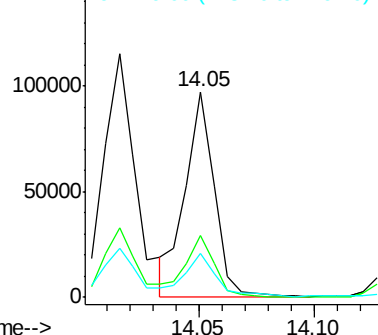
228 100

226 29.9 25.0 37.6

229 21.3 16.2 24.4



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.29 ng

RT: 16.98 min Scan# 2532

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

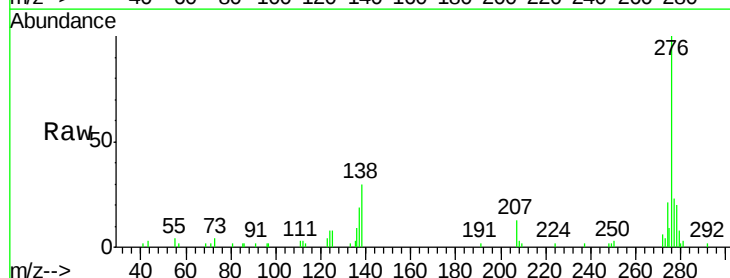
Tgt Ion:276 Resp: 37969

Ion Ratio Lower Upper

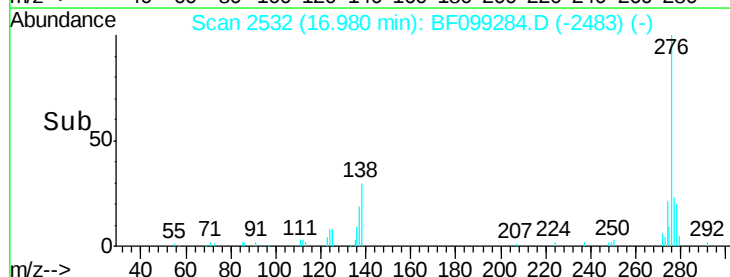
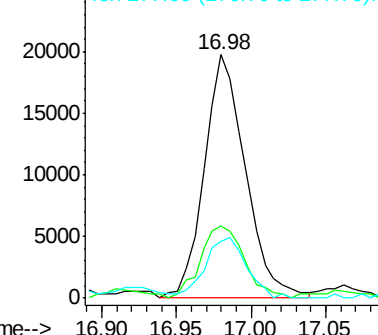
276 100

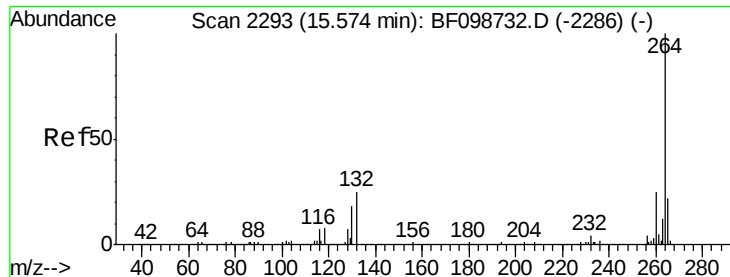
138 31.4 25.0 37.6

277 25.0 20.1 30.1



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

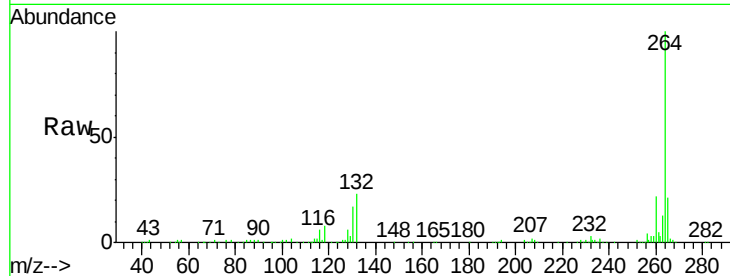




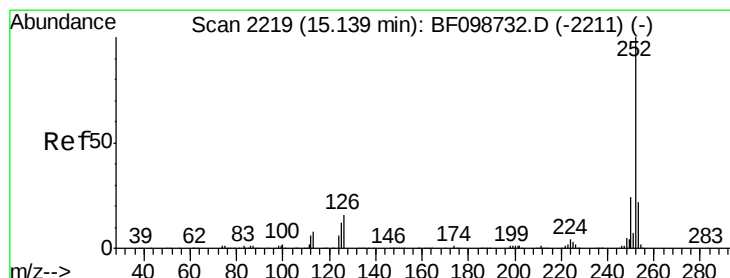
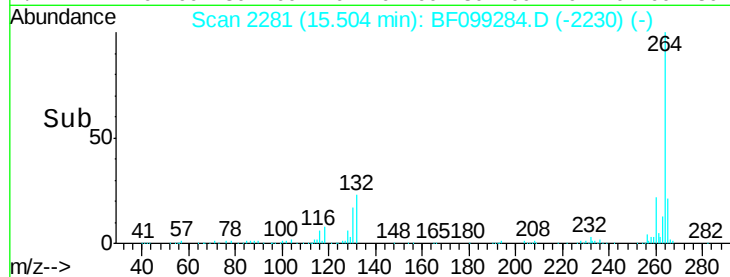
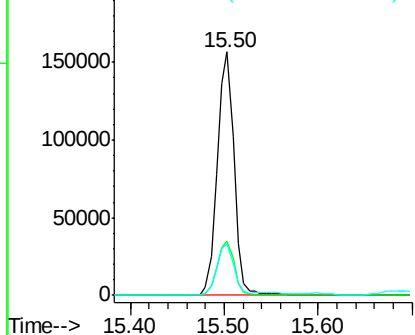
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.50 min Scan# 2281
Delta R.T. -0.00 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :

Tot Ion:264 Resp: 197523
Ion Ratio Lower Upper
264 100
260 22.1 19.2 28.8
265 21.0 17.5 26.3

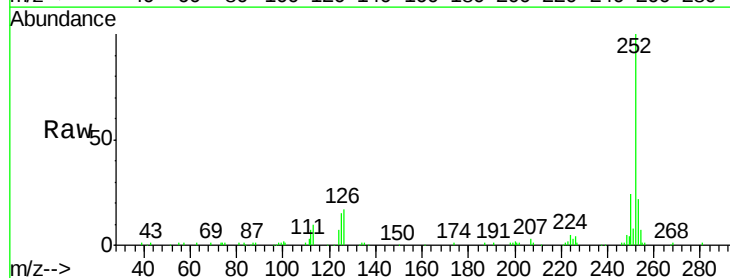


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

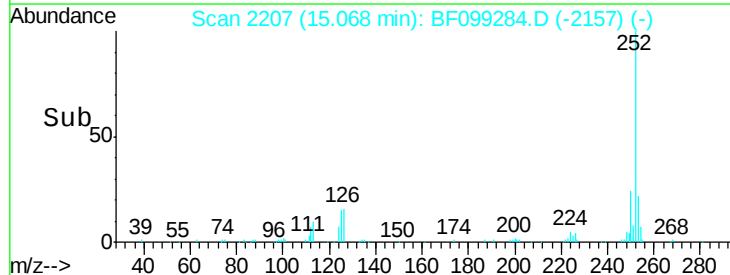
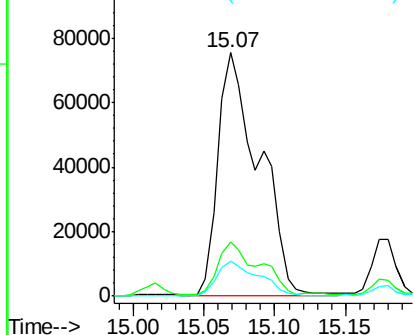


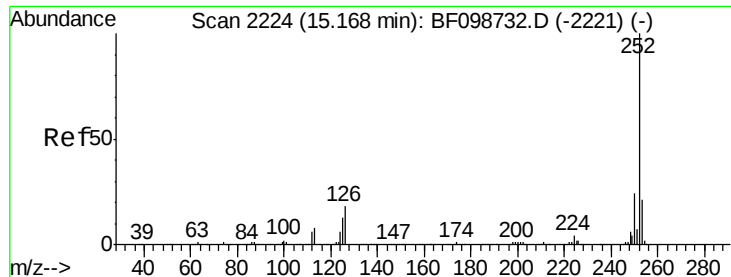
#87
Benzo(b)fluoranthene
Concen: 12.73 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion:252 Resp: 154608
Ion Ratio Lower Upper
252 100
253 22.1 17.0 25.6
125 14.6 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

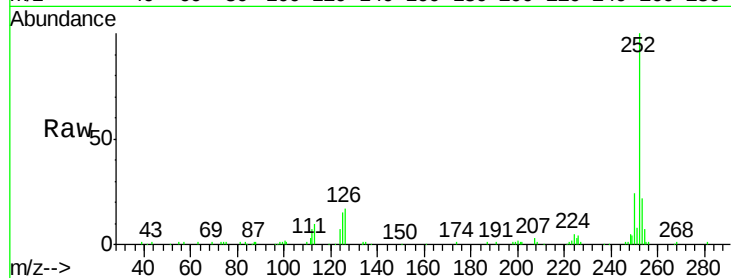




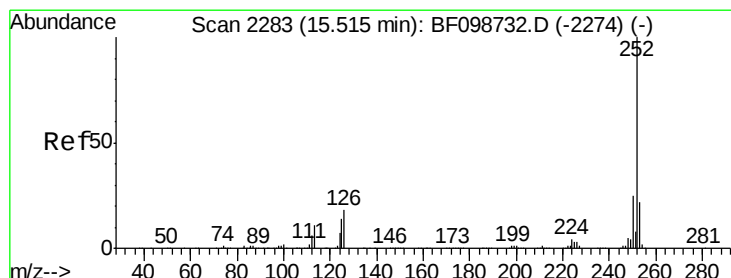
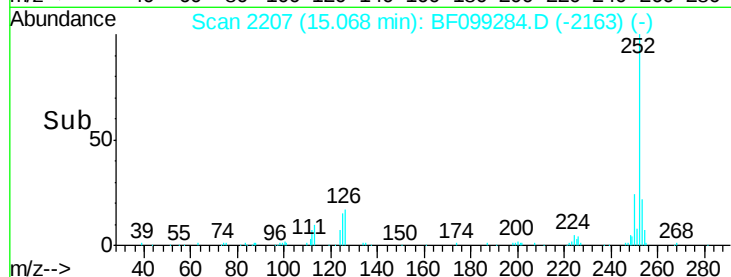
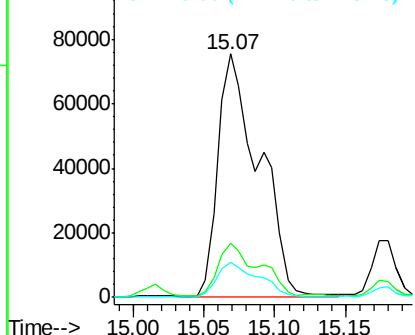
#88
Benzo(k)fluoranthene
Concen: 12.89 ng
RT: 15.07 min Scan# 2207
Delta R.T. -0.04 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.9	26.9
125	14.6	10.2	15.2

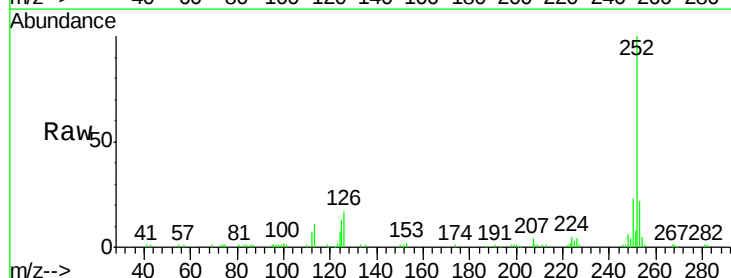


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

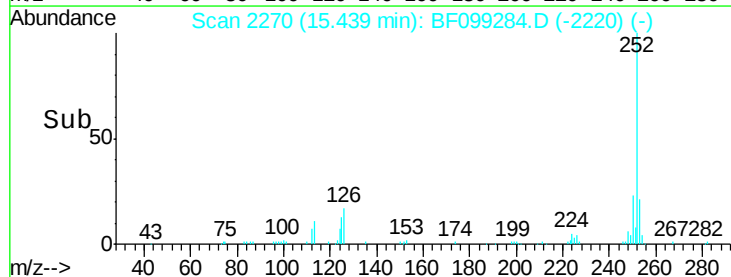
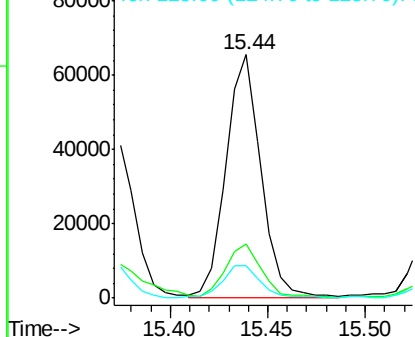


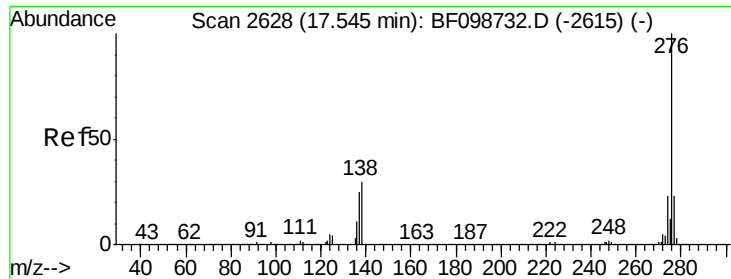
#89
Benzo(a)pyrene
Concen: 7.33 ng
RT: 15.44 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF099284.D
Acq: 10 Oct 2017 1:28

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.1	25.7
125	13.5	9.8	14.6



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

Benzo(a,h,i)perylene

Concen: 3.52 ng

RT: 17.43 min Scan# 2609

Delta R.T. -0.01 min

Lab File: BF099284.D

Acq: 10 Oct 2017 1:28

Instrument :

BNA_F

ClientSampleId :

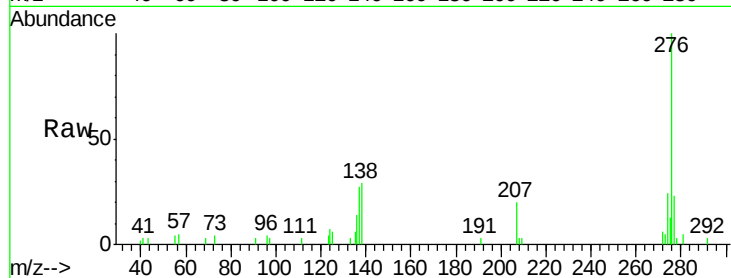
Tot Ion:276 Resp: 31049

Ion Ratio Lower Upper

276 100

277 23.1 17.9 26.9

138 28.7 21.8 32.8



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

