

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101517\
 Data File : BF099523.D
 Acq On : 15 Oct 2017 19:43
 Operator : SJ/JU
 Sample : I5821-01 2X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Oct 16 01:08:24 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 16:25:21 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.85	152	90235	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	325578	20.00	ng	0.00
38) Acenaphthene-d10	9.88	164	118022	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	182763	20.00	ng	0.00
75) Chrysene-d12	14.02	240	198345	20.00	ng	0.00
86) Perylene-d12	15.49	264	181988	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.46	112	363034	64.05	ng	0.00
7) Phenol-d6	6.47	99	408051	58.35	ng	-0.01
23) Nitrobenzene-d5	7.40	82	225792	44.47	ng	-0.02
41) 2,4,6-Tribromophenol	10.67	330	56026	58.01	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	398781	56.41	ng	-0.01
78) Terphenyl-d14	12.95	244	322092	36.93	ng	0.00

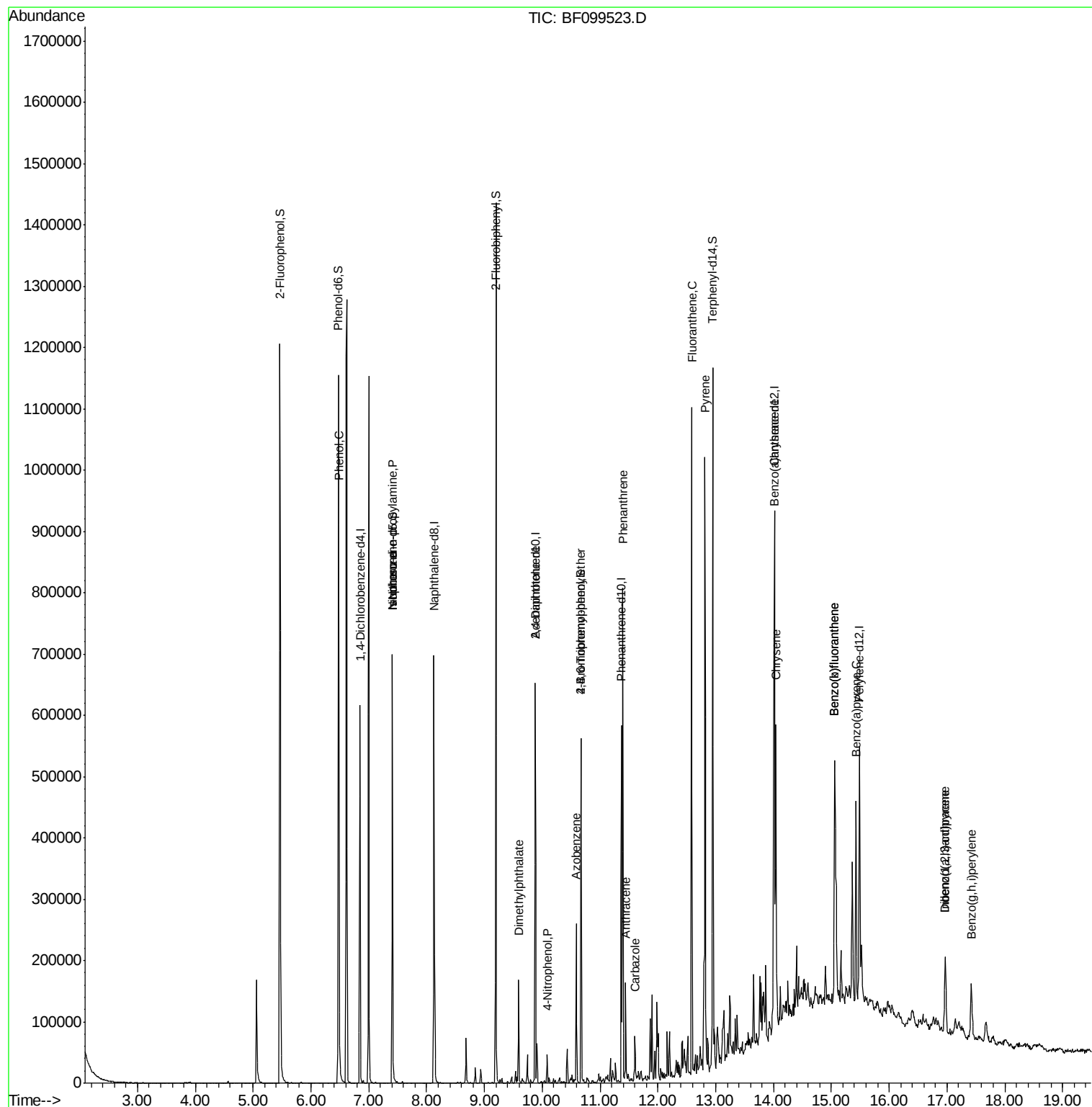
Target Compounds				Qvalue		
10) Phenol	6.49	94	22517	2.88	ng	88
19) n-Nitroso-di-n-propylamine	7.40	70	28782	6.45	ng	# 77
25) Isophorone	7.40	82	225790	21.51	ng	# 64
49) Dimethylphthalate	9.59	163	61508	6.91	ng	100
55) 4-Nitrophenol	10.09	139	6068	3.17	ng	# 9
56) 2,4-Dinitrotoluene	9.88	165	15001	5.96	ng	# 21
62) Azobenzene	10.59	77	40474	5.06	ng	# 1
66) 4-Bromophenyl-phenylether	10.67	248	3747	2.09	ng	# 1
70) Phenanthrene	11.39	178	268852	27.48	ng	98
71) Anthracene	11.45	178	57764	5.77	ng	98
72) Carbazole	11.60	167	25694	2.62	ng	96
74) Fluoranthene	12.59	202	387963	39.16	ng	98
77) Pvrene	12.82	202	369701	24.44	ng	99
80) Benzo(a)anthracene	14.00	228	195428	16.27	ng	99
82) Chrysene	14.04	228	168982	14.78	ng	98
85) Indeno(1,2,3-cd)pyrene	16.97	276	69665	7.62	ng	98
87) Benzo(b)fluoranthene	15.06	252	276179	24.68	ng	# 94
88) Benzo(k)fluoranthene	15.06	252	276179	24.99	ng	# 97
89) Benzo(a)pvrene	15.43	252	147653	14.38	ng	# 95
90) Dibenzo(a,h)anthracene	16.97	278	18815	2.29	ng	# 88
91) Benzo(g,h,i)perylene	17.42	276	68326	8.41	ng	97

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

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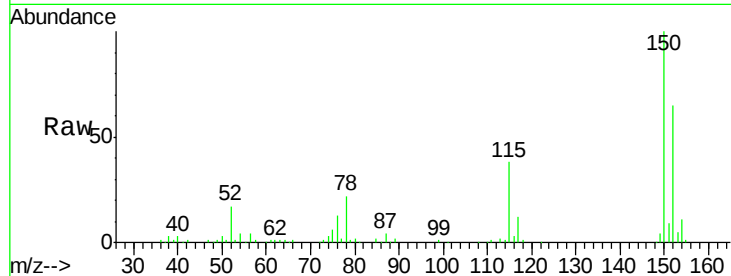


#1

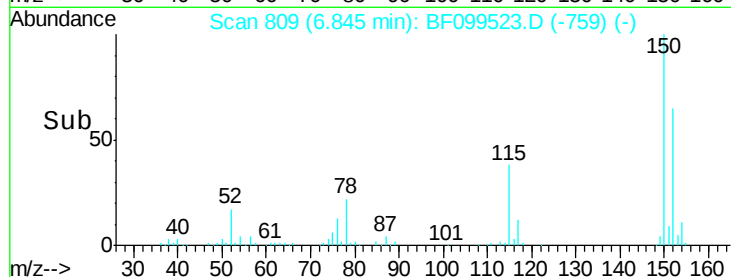
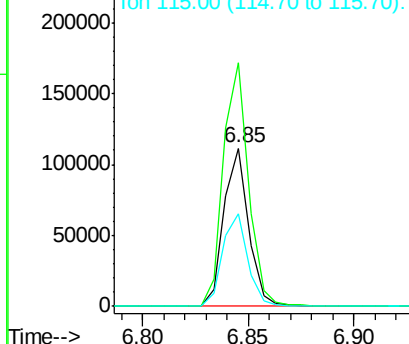
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.85 min Scan# 809
Delta R.T. -0.01 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 90235
Ion Ratio Lower Upper
152 100
150 153.7 124.6 186.8
115 58.2 50.1 75.1



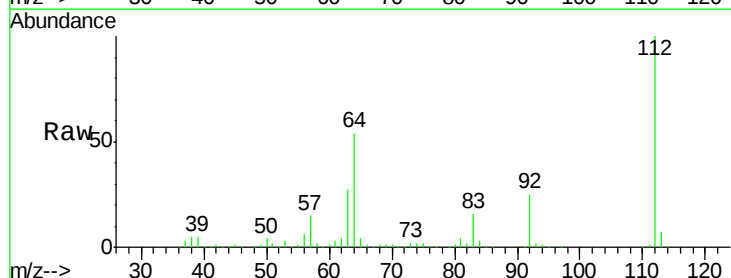
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



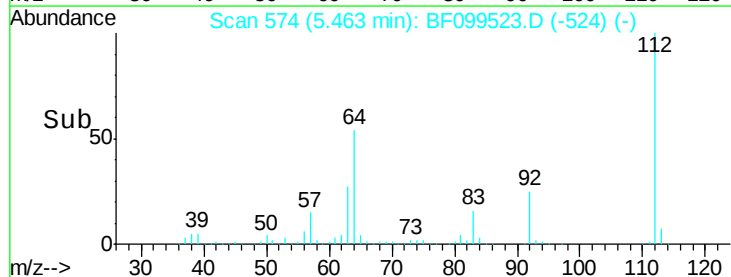
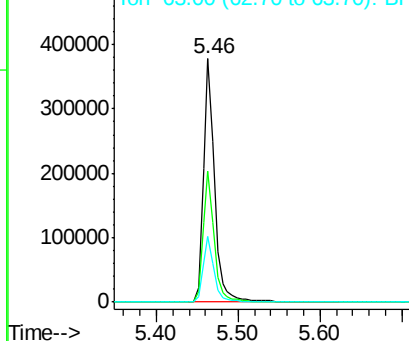
#5

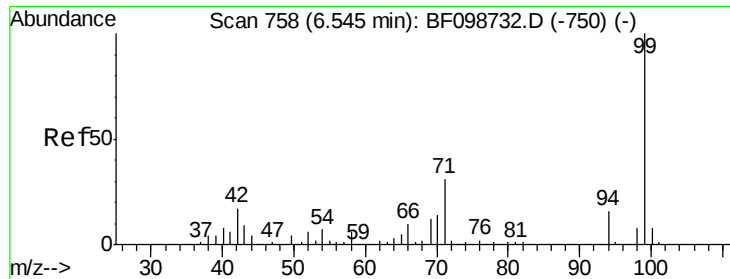
2-Fluorophenol
Concen: 64.05 ng
RT: 5.46 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Tgt Ion:112 Resp: 363034
Ion Ratio Lower Upper
112 100
64 54.0 47.9 71.9
63 26.8 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: 58.35 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

Instrument :

BNA_F

ClientSampled :

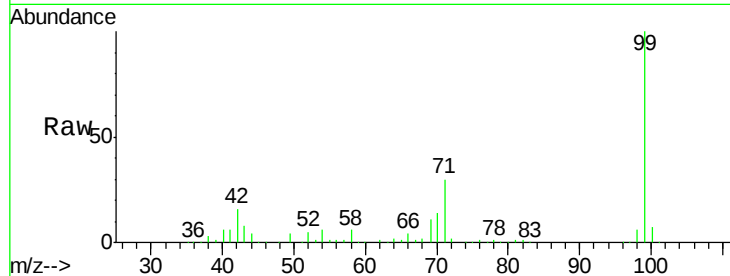
Tot Ion: 99 Resp: 408051

Ion Ratio Lower Upper

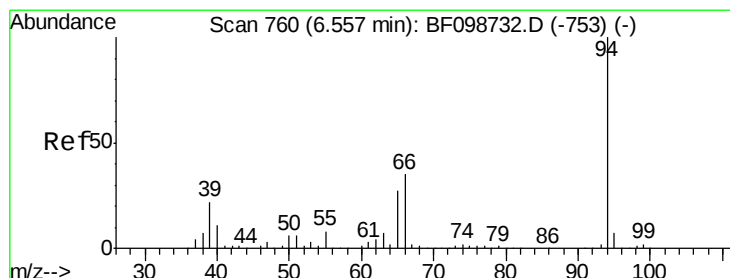
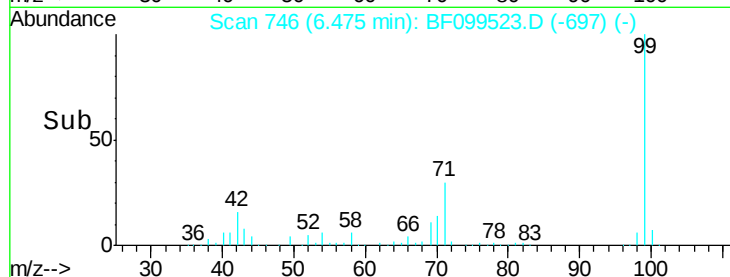
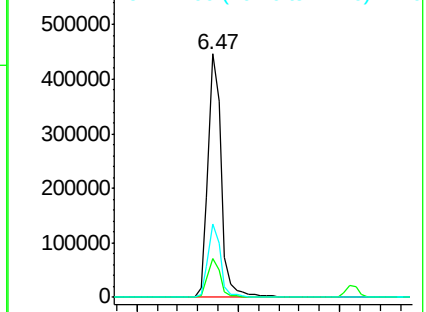
99 100

42 15.7 14.5 21.7

71 30.0 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



#10

Phenol

Concen: 2.88 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

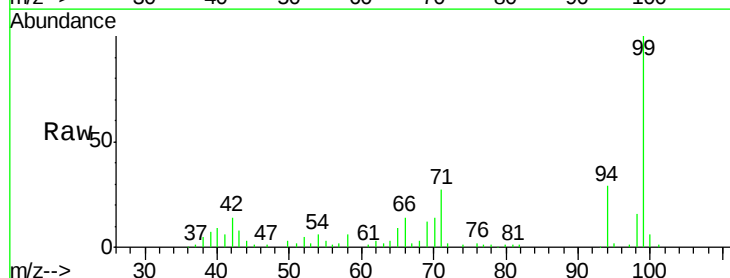
Tgt Ion: 94 Resp: 22517

Ion Ratio Lower Upper

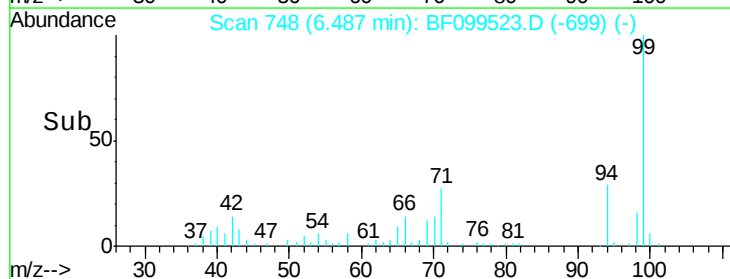
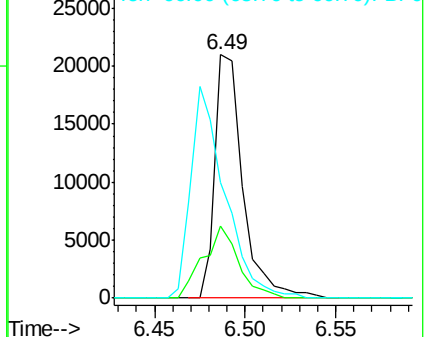
94 100

65 29.7 7.9 47.9

66 47.6 16.2 56.2



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0

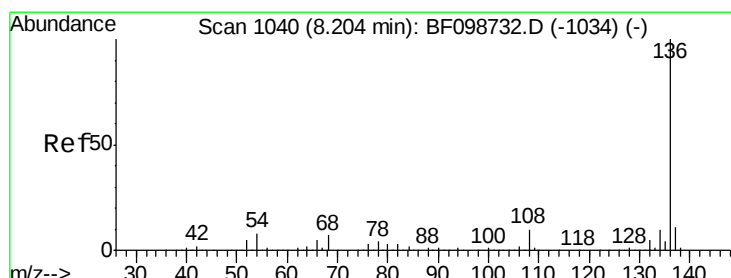
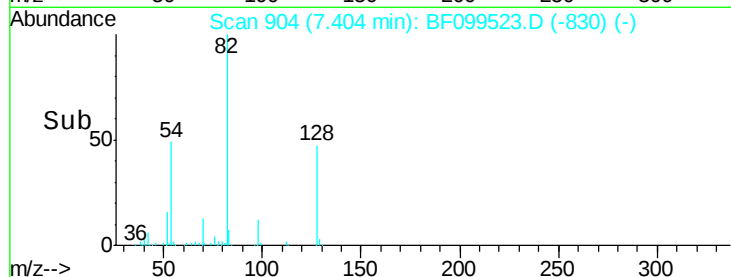
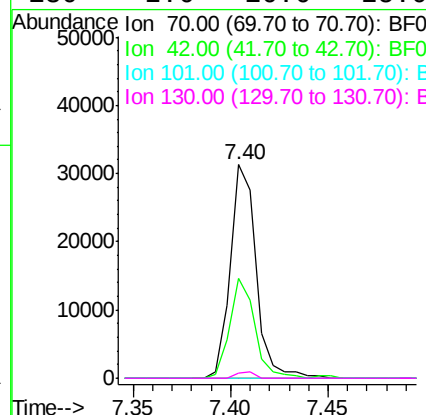
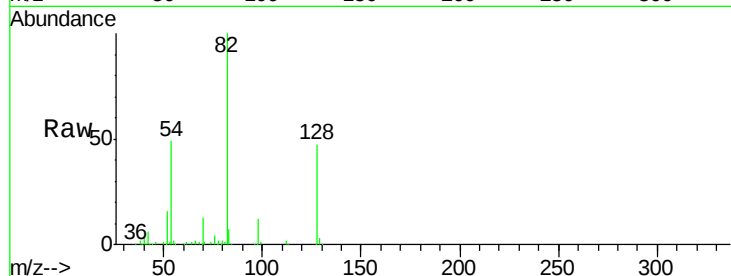




#19
n-Nitroso-di-n-propylamine
Concen: 6.45 ng
RT: 7.40 min Scan# 904
Delta R.T. 0.14 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

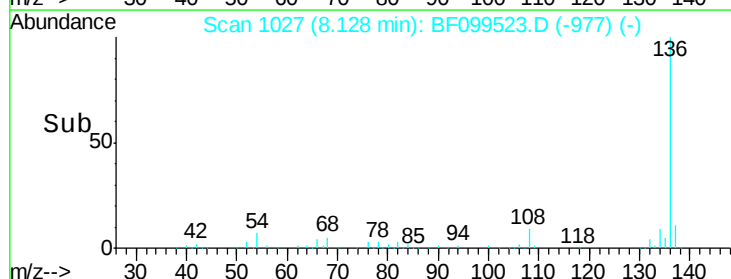
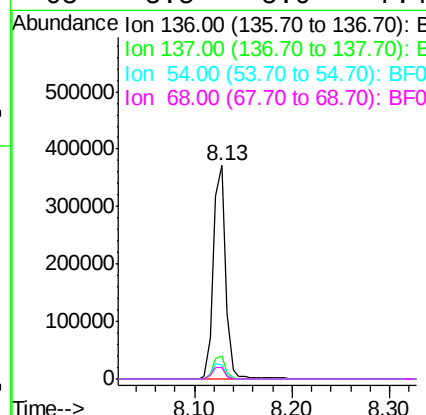
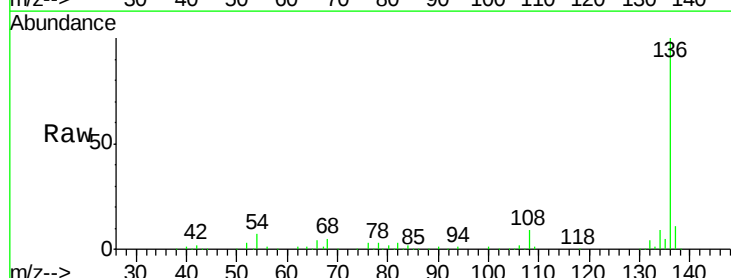
Instrument :
BNA_F
ClientSampled :

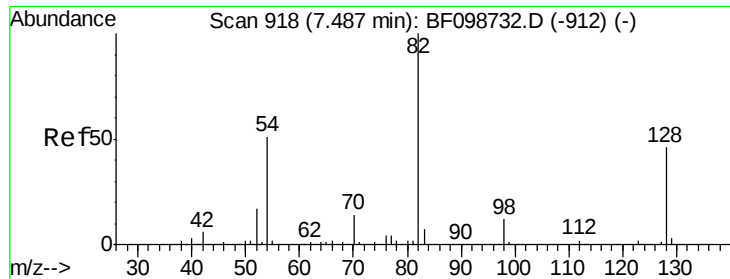
Tot Ion: 70 Resp: 28782
Ion Ratio Lower Upper
70 100
42 47.0 47.5 71.3#
101 0.0 7.4 11.2#
130 2.6 16.6 25.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.13 min Scan# 1027
Delta R.T. -0.01 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Tgt Ion: 136 Resp: 325578
Ion Ratio Lower Upper
136 100
137 10.8 8.9 13.3
54 6.6 6.6 9.8
68 5.5 5.0 7.4

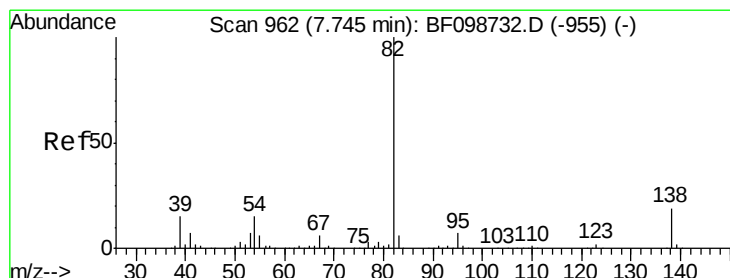
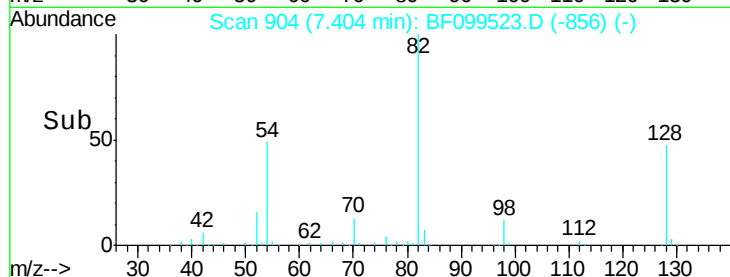
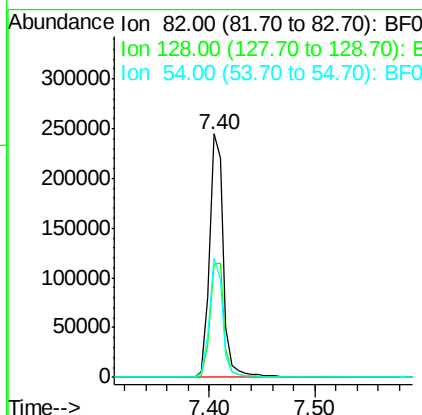
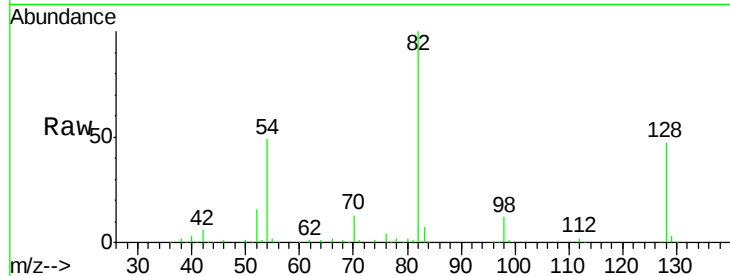




#23
Nitrobenzene-d5
Concen: 44.47 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.02 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

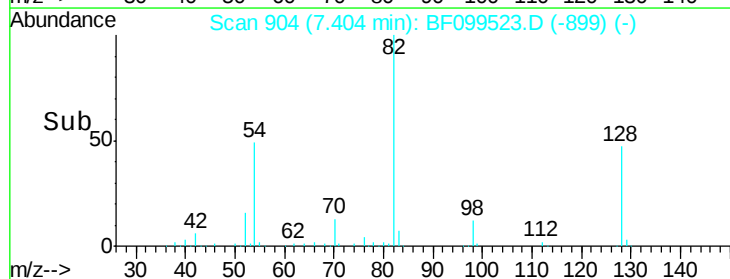
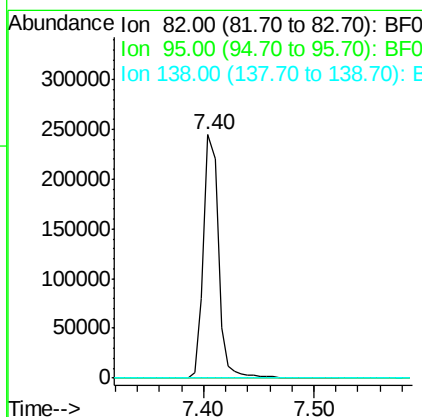
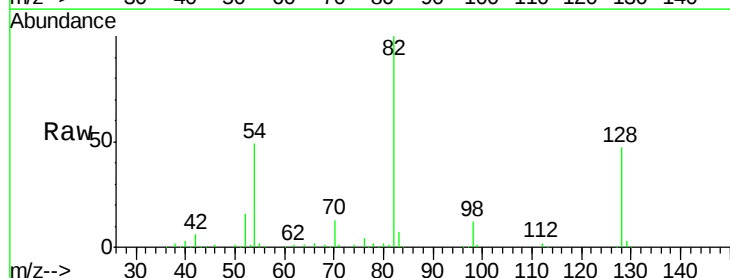
Instrument :
BNA_F
ClientSampleId :

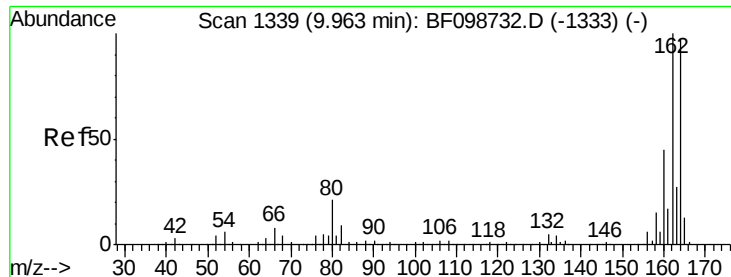
Tot Ion: 82 Resp: 225792
Ion Ratio Lower Upper
82 100
128 46.6 36.1 54.1
54 49.0 41.4 62.2



#25
Isophorone
Concen: 21.51 ng
RT: 7.40 min Scan# 904
Delta R.T. -0.27 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Tgt Ion: 82 Resp: 225790
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.88 min Scan# 1325

Delta R.T. -0.01 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

Instrument :

BNA_F

ClientSampleId :

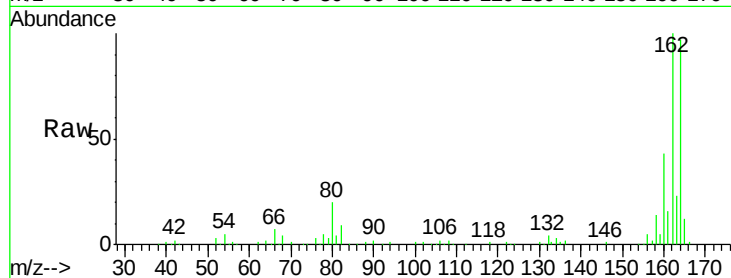
Tot Ion:164 Resp: 118022

Ion Ratio Lower Upper

164 100

162 103.4 86.1 129.1

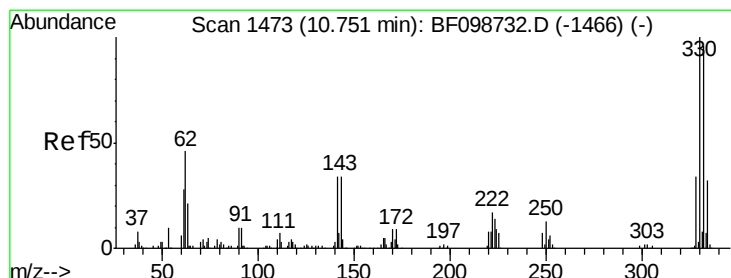
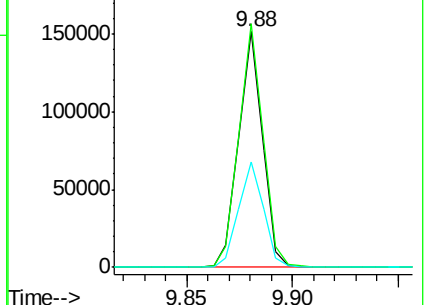
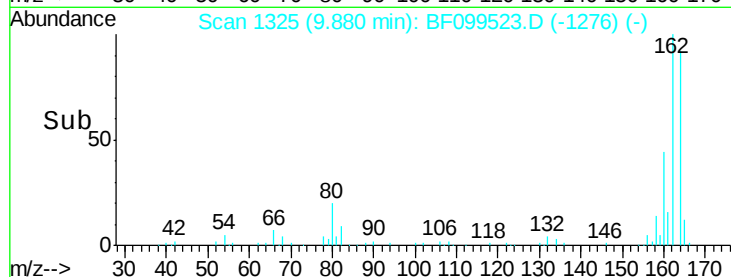
160 44.8 38.3 57.5



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: 58.01 ng

RT: 10.67 min Scan# 1460

Delta R.T. -0.01 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

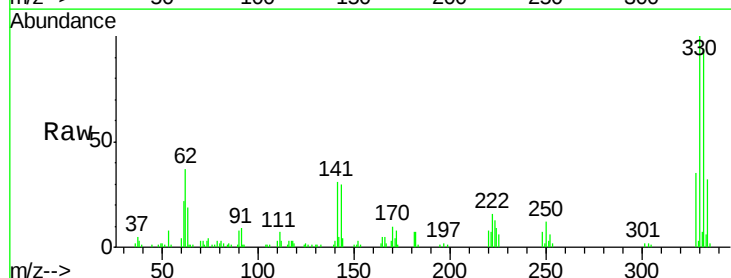
Tgt Ion:330 Resp: 56026

Ion Ratio Lower Upper

330 100

332 95.8 77.0 115.6

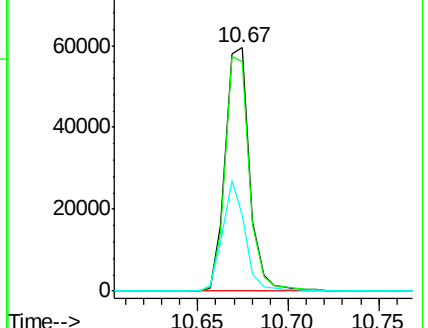
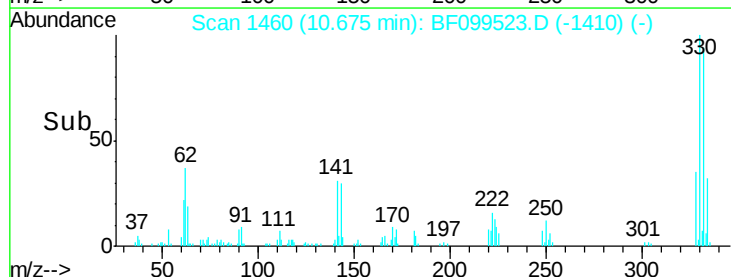
141 41.2 29.9 44.9



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

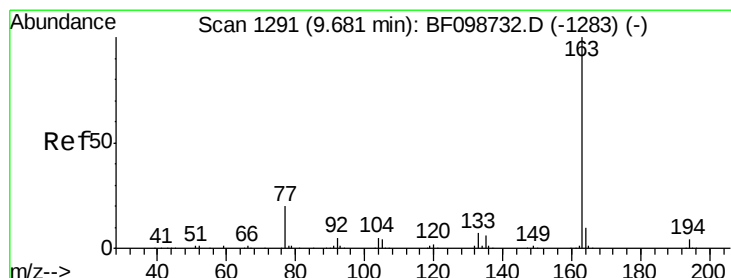
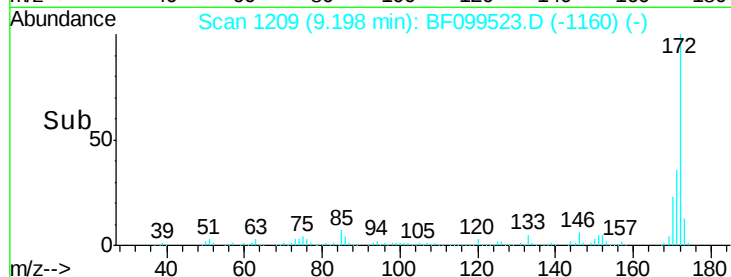
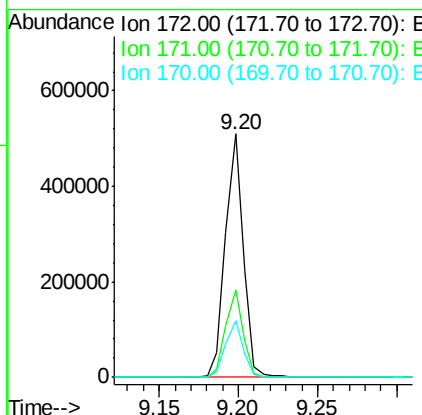
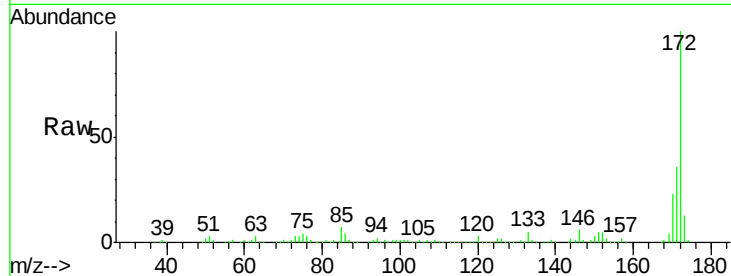




#44
 2-Fluorobiphenyl
 Concen: 56.41 ng
 RT: 9.20 min Scan# 1209
 Delta R.T. -0.01 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

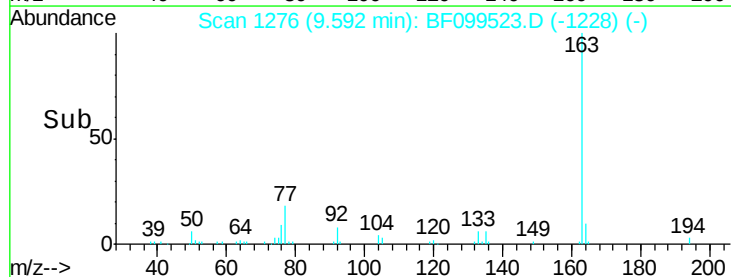
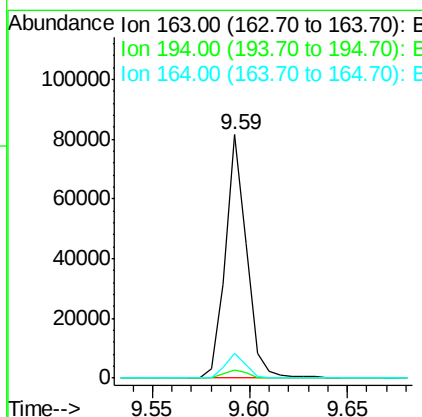
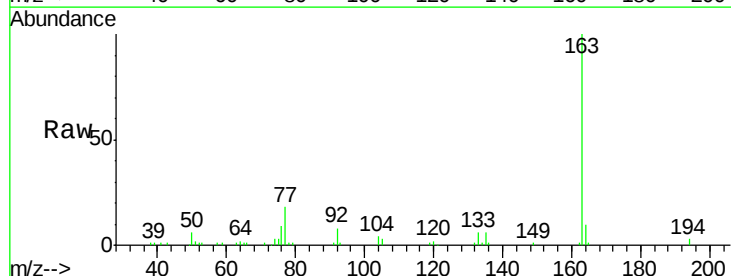
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 BNA_F
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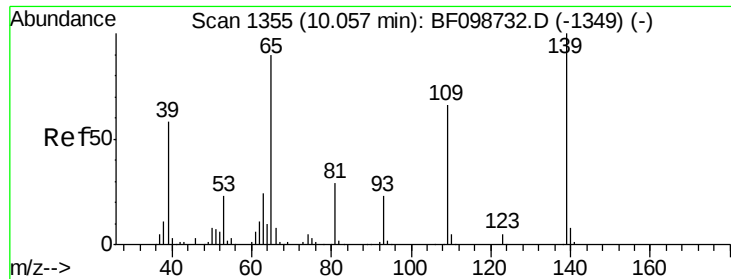
Tot Ion:172 Resp: 398781
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.7 44.5
 170 23.3 19.6 29.4



#49
 Dimethylphthalate
 Concen: 6.91 ng
 RT: 9.59 min Scan# 1276
 Delta R.T. -0.02 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

Tgt Ion:163 Resp: 61508
 Ion Ratio Lower Upper
 163 100
 194 3.3 2.7 4.1
 164 10.1 8.2 12.2

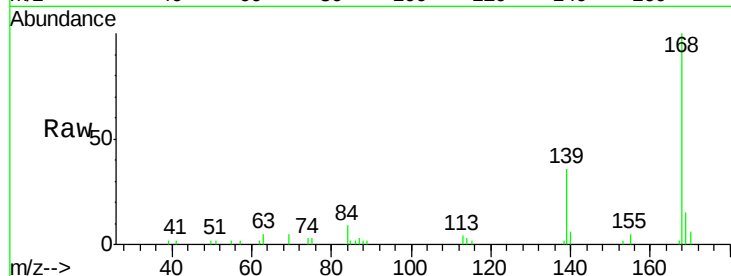




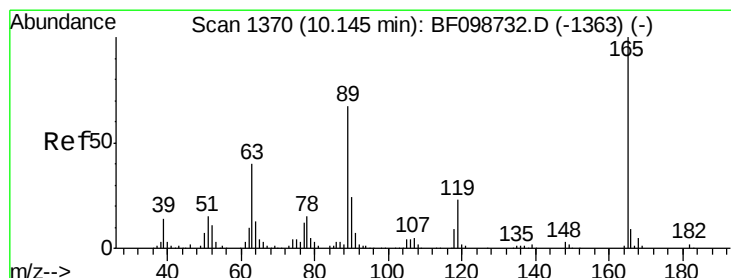
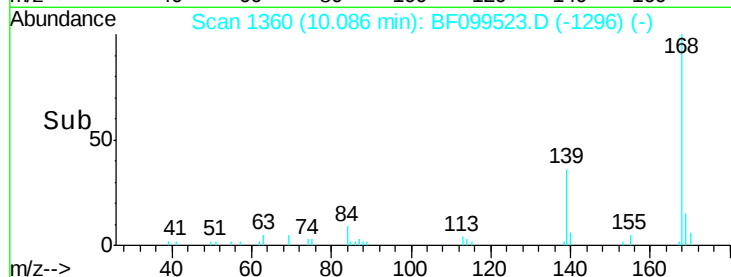
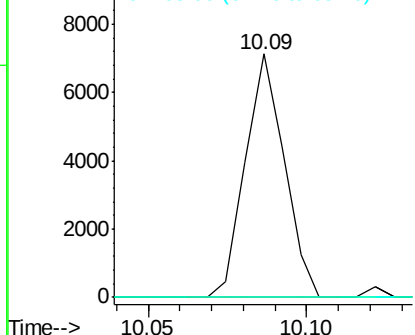
#55
4-Nitrophenol
Concen: 3.17 ng
RT: 10.09 min Scan# 1360
Delta R.T. 0.08 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion:139 Resp: 6068
Ion Ratio Lower Upper
139 100
109 0.0 48.4 88.4#
65 0.0 72.6 112.6#

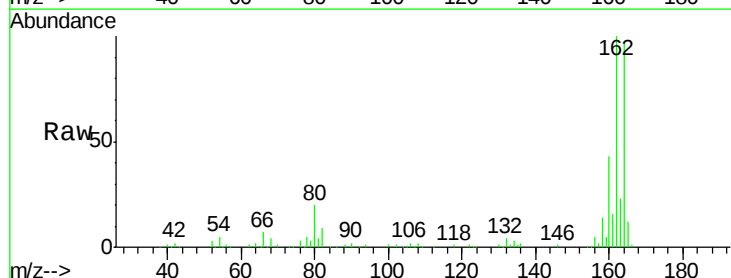


Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): E

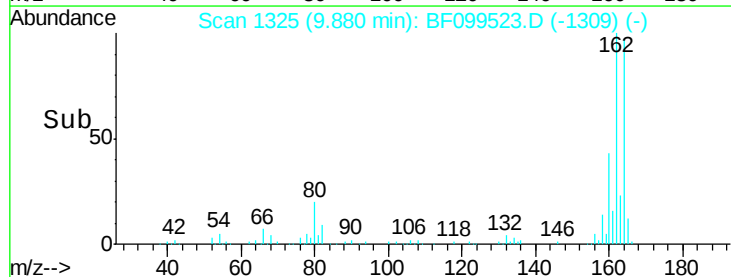
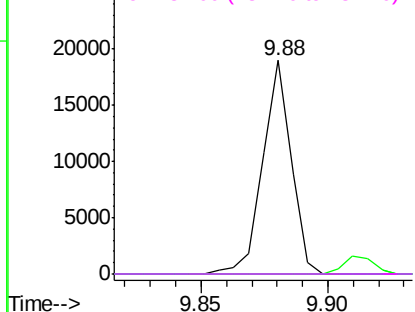


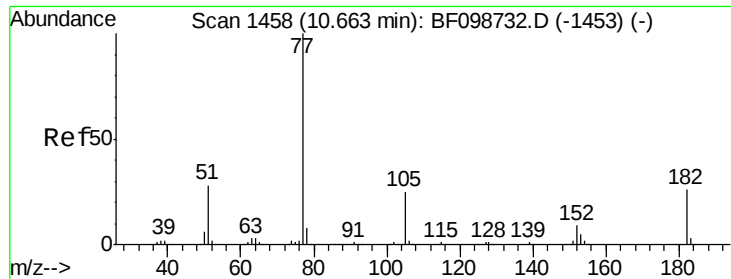
#56
2,4-Dinitrotoluene
Concen: 5.96 ng
RT: 9.88 min Scan# 1325
Delta R.T. -0.21 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Tgt Ion:165 Resp: 15001
Ion Ratio Lower Upper
165 100
63 0.0 36.4 54.6#
89 0.0 57.8 86.6#
182 0.0 1.6 2.4#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0
Ion 182.00 (181.70 to 182.70): E

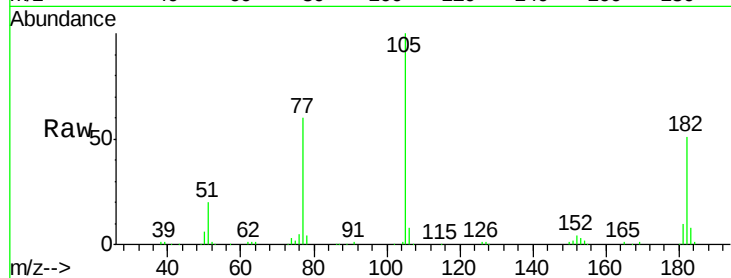




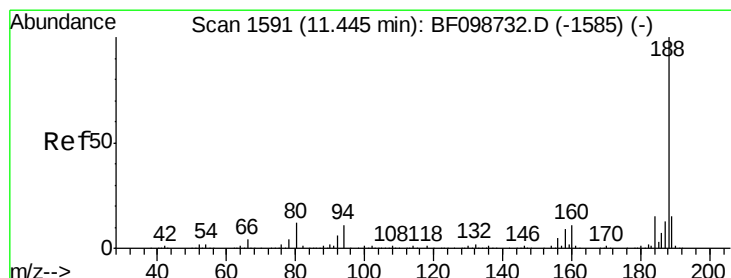
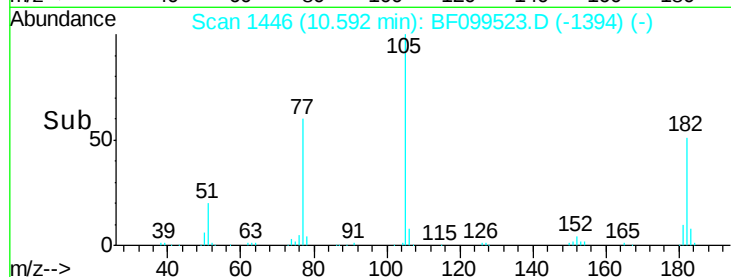
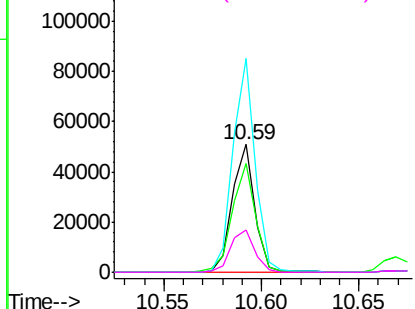
#62
Azobenzene
Concen: 5.06 ng
RT: 10.59 min Scan# 1446
Delta R.T. 0.01 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 77 Resp: 40474
Ion Ratio Lower Upper
77 100
182 85.8 1.7 41.7#
105 167.5 3.0 43.0#
51 33.1 9.9 49.9

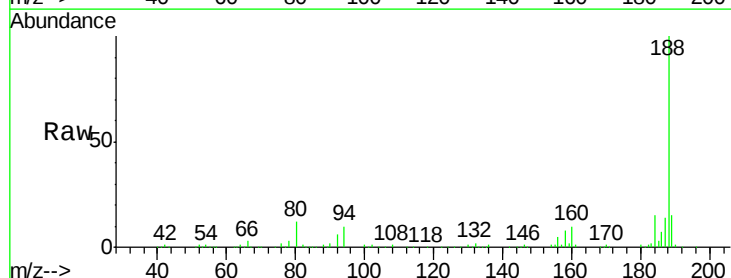


Abundance Ion 77.00 (76.70 to 77.70): BF0
Ion 182.00 (181.70 to 182.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 51.00 (50.70 to 51.70): BF0

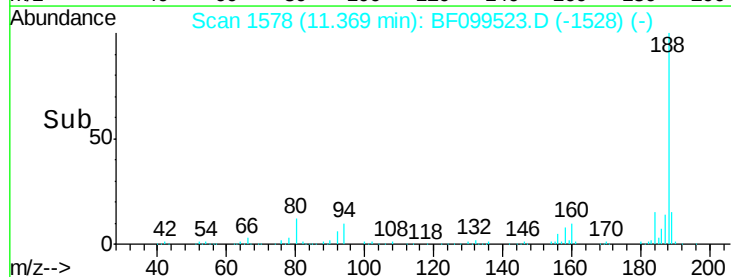
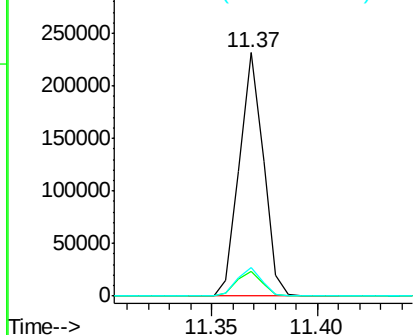


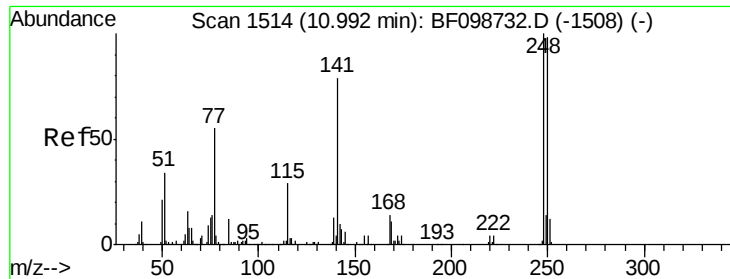
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1578
Delta R.T. -0.01 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Tgt Ion: 188 Resp: 182763
Ion Ratio Lower Upper
188 100
94 10.4 8.5 12.7
80 11.7 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

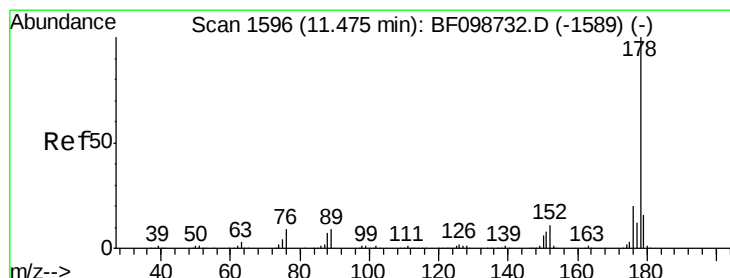
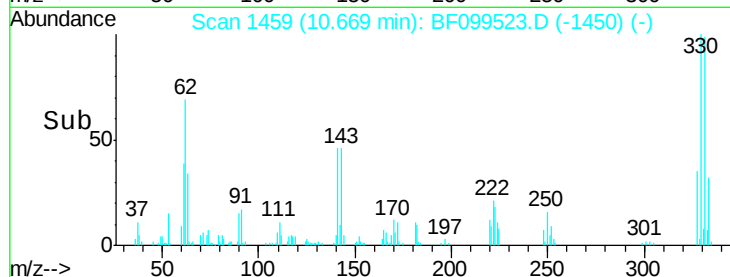
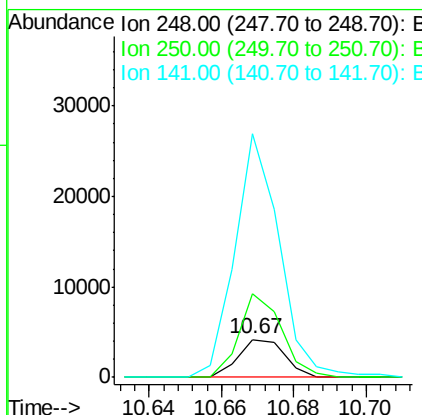
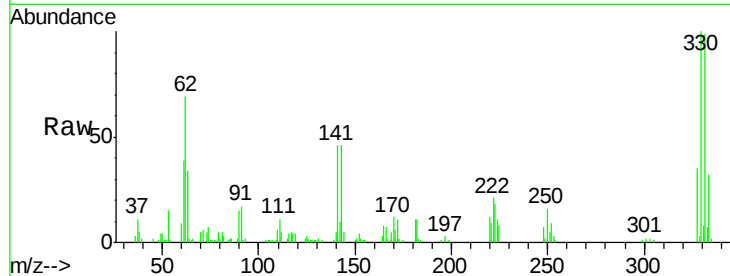




#66
 4-Bromophenyl-phenylether
 Concen: 2.09 ng
 RT: 10.67 min Scan# 1459
 Delta R.T. -0.25 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

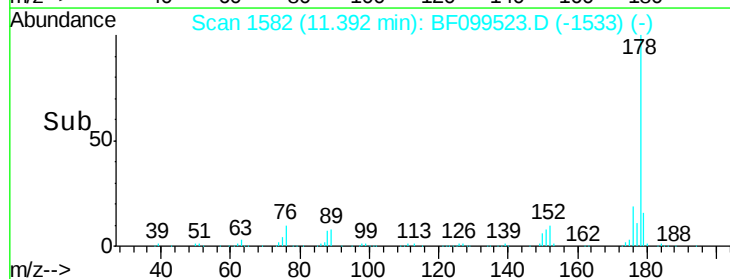
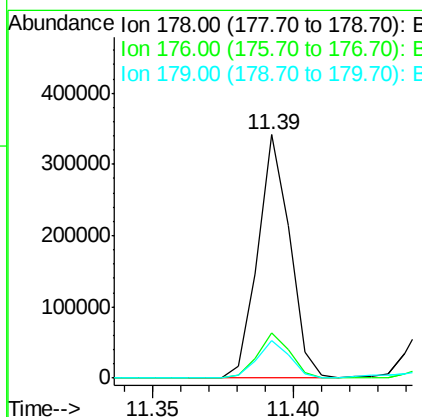
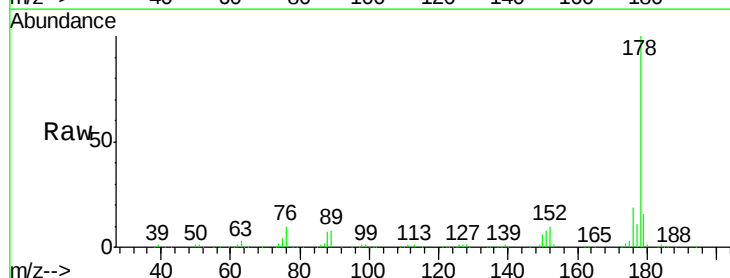
Instrument :
 BNA_F
 ClientSampleId :

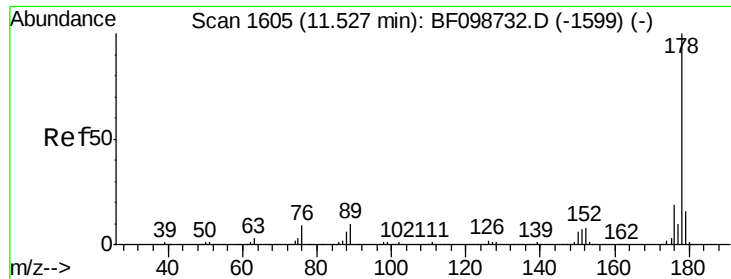
Tot Ion	Ratio	Lower	Upper
248	100		
250	219.6	76.9	115.3#
141	638.2	74.4	111.6#



#70
 Phenanthrene
 Concen: 27.48 ng
 RT: 11.39 min Scan# 1582
 Delta R.T. -0.01 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.8	23.8
179	15.5	13.0	19.6

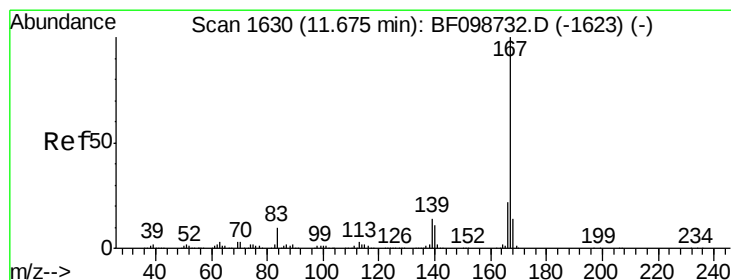
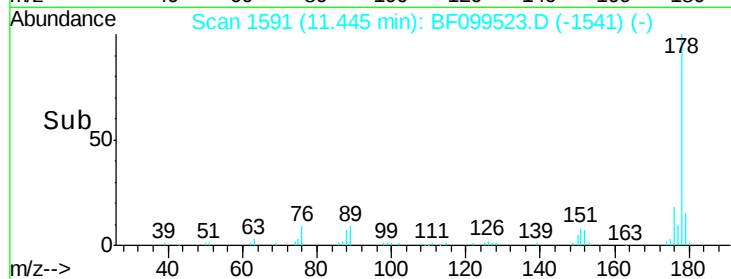
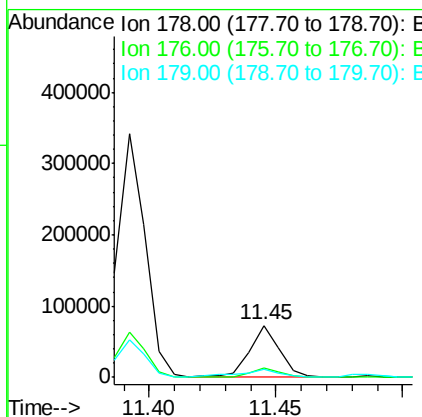
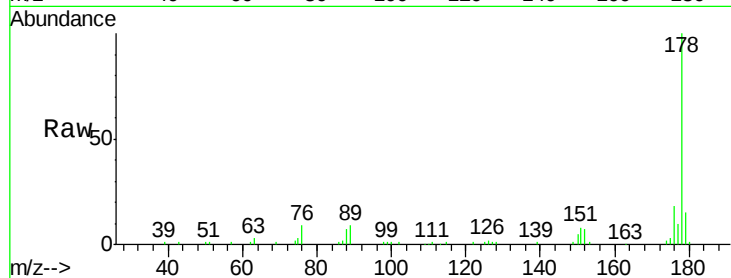




#71
 Anthracene
 Concen: 5.77 ng
 RT: 11.45 min Scan# 1591
 Delta R.T. -0.01 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

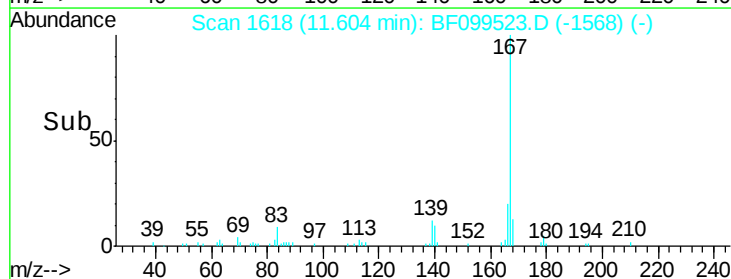
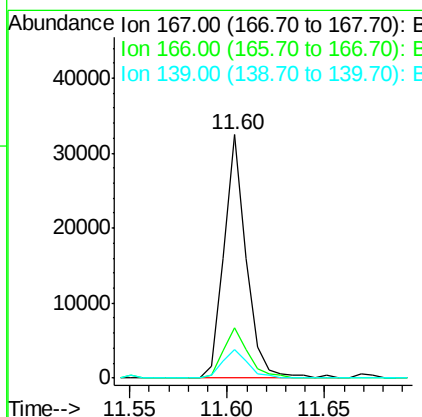
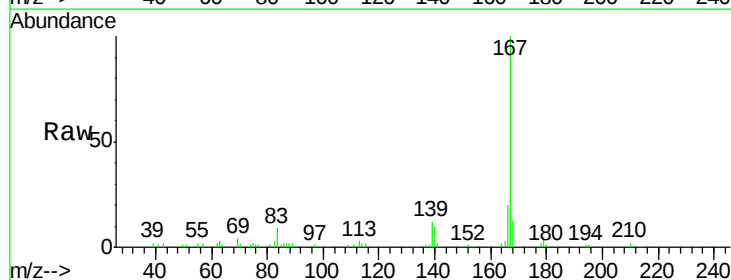
Instrument :
 BNA_F
 ClientSampleId :

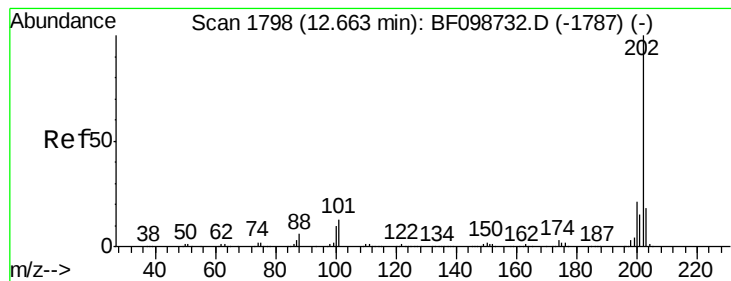
Tot Ion:178 Resp: 57764
 Ion Ratio Lower Upper
 178 100
 176 18.4 15.4 23.2
 179 14.8 12.6 19.0



#72
 Carbazole
 Concen: 2.62 ng
 RT: 11.60 min Scan# 1618
 Delta R.T. -0.01 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

Tgt Ion:167 Resp: 25694
 Ion Ratio Lower Upper
 167 100
 166 20.5 17.6 26.4
 139 11.5 10.9 16.3





#74

Fluoranthene

Concen: 39.16 ng

RT: 12.59 min Scan# 1785

Delta R.T. 0.00 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

Instrument :

BNA_F

ClientSampleId :

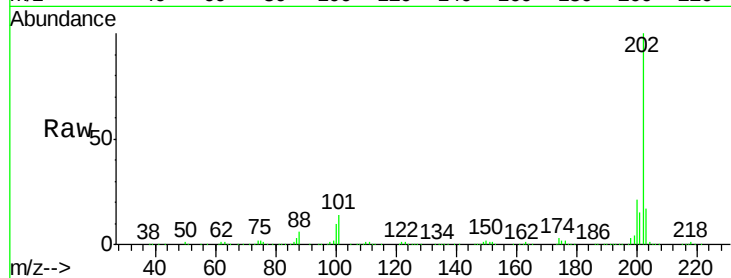
Tot Ion:202 Resp: 387963

Ion Ratio Lower Upper

202 100

101 13.7 0.0 34.1

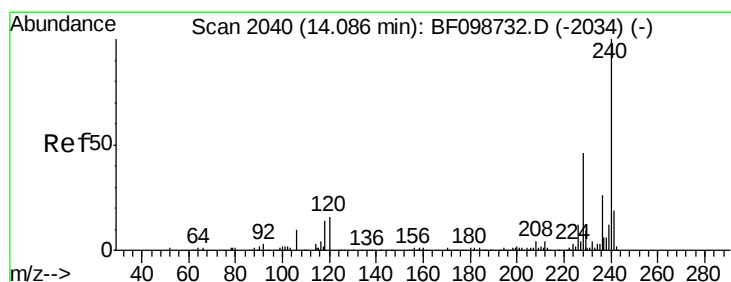
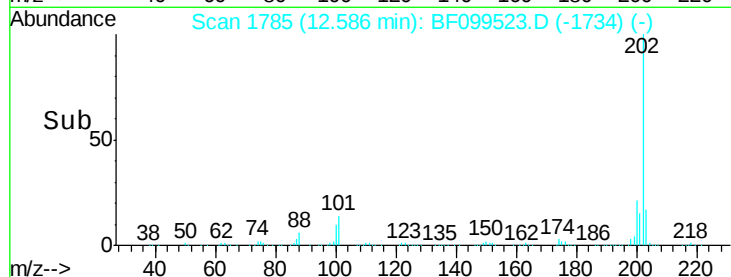
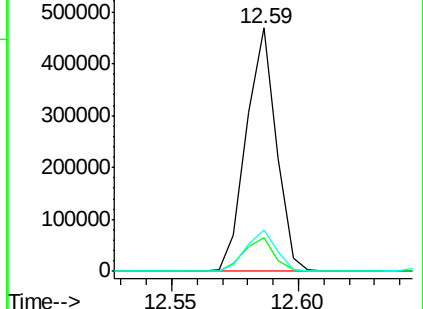
203 17.2 0.0 38.1



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



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.02 min Scan# 2028

Delta R.T. 0.00 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

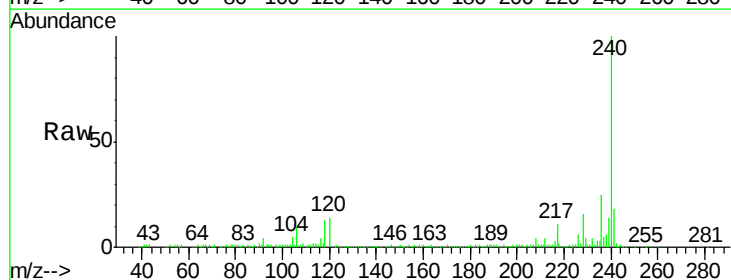
Tgt Ion:240 Resp: 198345

Ion Ratio Lower Upper

240 100

120 14.4 9.5 14.3#

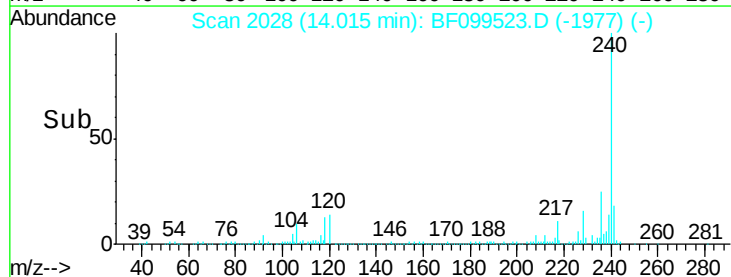
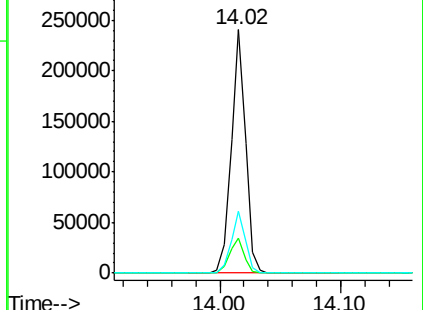
236 25.4 20.7 31.1

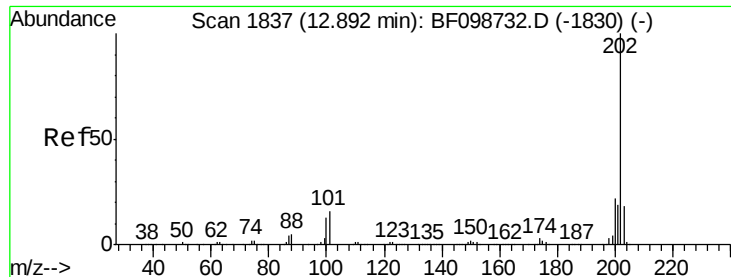


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 24.44 ng

RT: 12.82 min Scan# 1824

Delta R.T. -0.01 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

Instrument :

BNA_F

ClientSampleId :

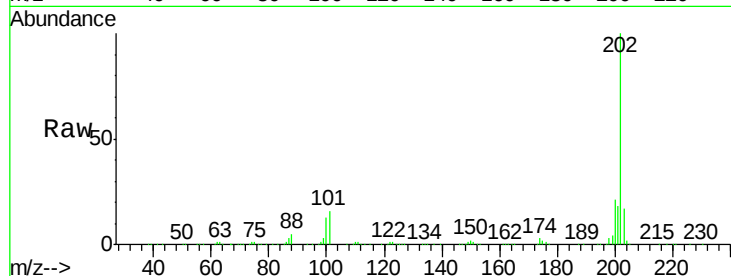
Tot Ion:202 Resp: 369701

Ion Ratio Lower Upper

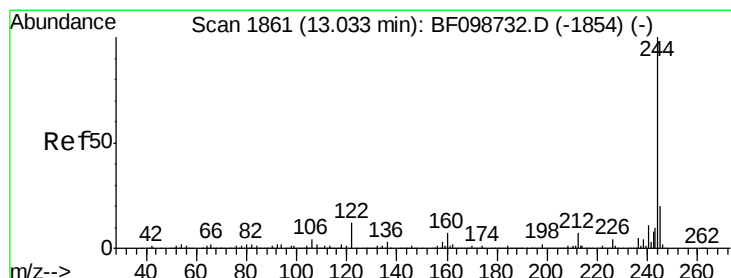
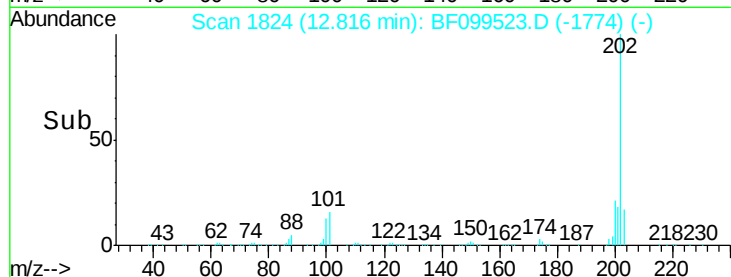
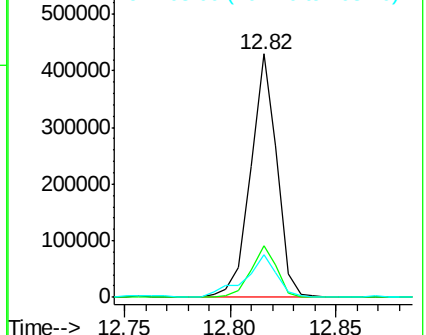
202 100

200 21.4 17.4 26.2

203 17.4 14.3 21.5



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



#78

Terphenyl-d14

Concen: 36.93 ng

RT: 12.95 min Scan# 1847

Delta R.T. -0.01 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

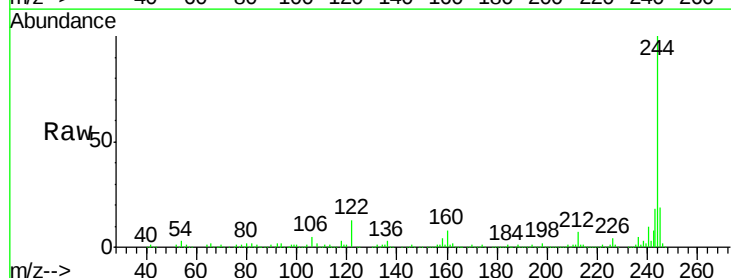
Tgt Ion:244 Resp: 322092

Ion Ratio Lower Upper

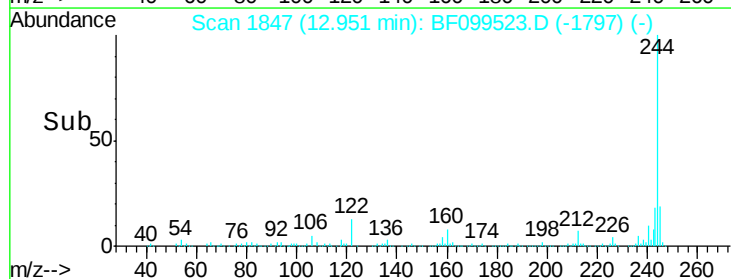
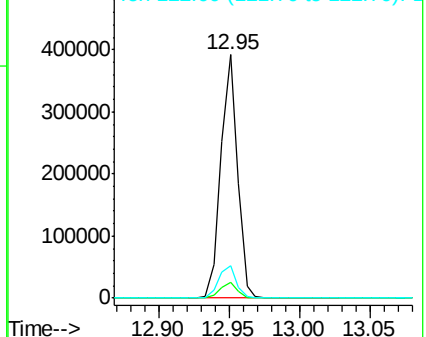
244 100

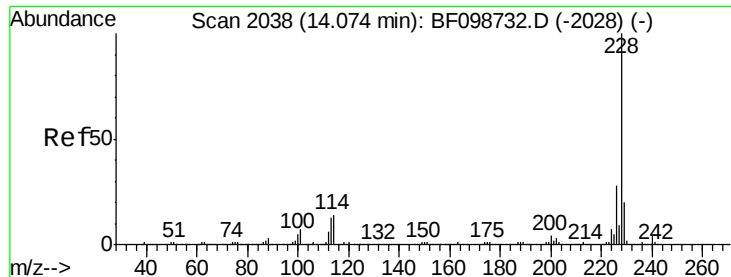
212 6.6 5.4 8.0

122 13.5 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: 16.27 ng

RT: 14.00 min Scan# 2026

Delta R.T. 0.00 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

Instrument :

BNA_F

ClientSampleId :

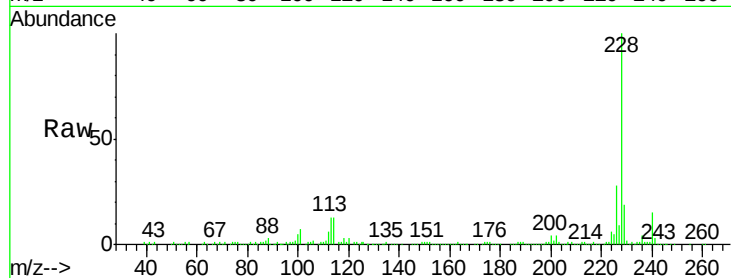
Tot Ion:228 Resp: 195428

Ion Ratio Lower Upper

228 100

226 28.0 22.6 33.8

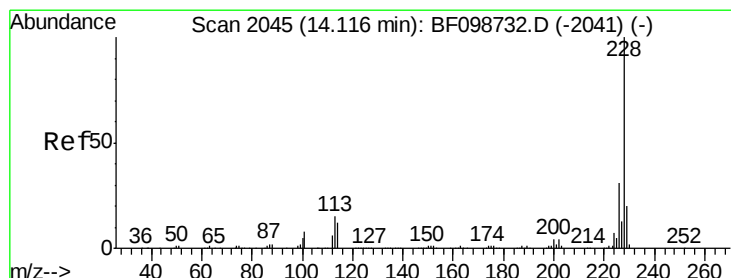
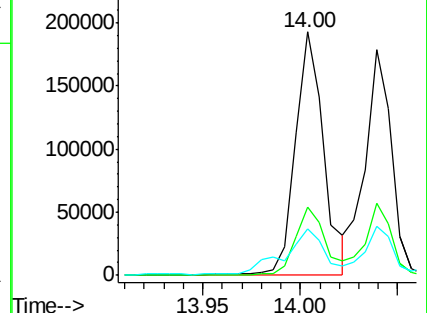
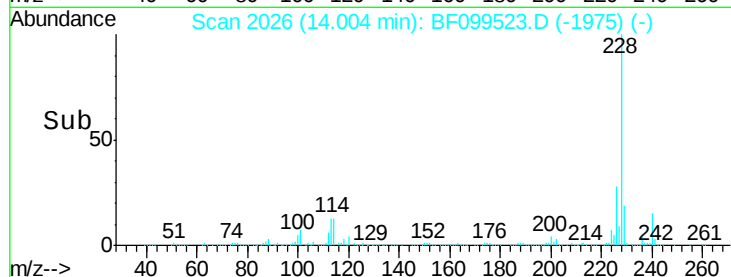
229 19.3 15.8 23.6



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: 14.78 ng

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

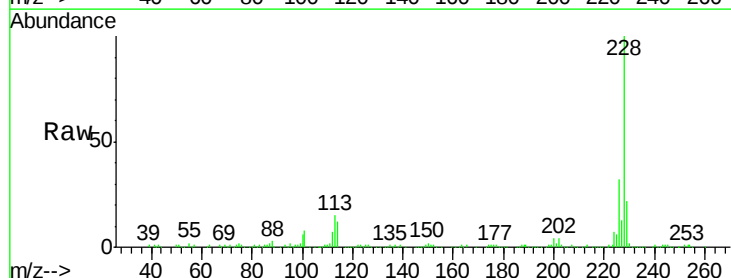
Tgt Ion:228 Resp: 168982

Ion Ratio Lower Upper

228 100

226 32.0 25.0 37.6

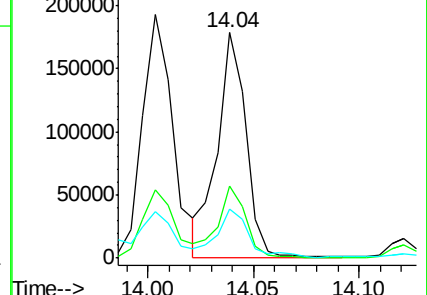
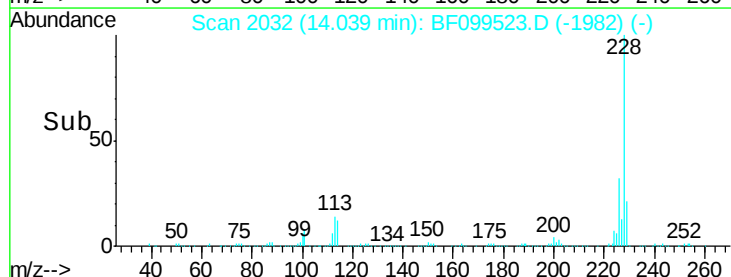
229 21.7 16.2 24.4

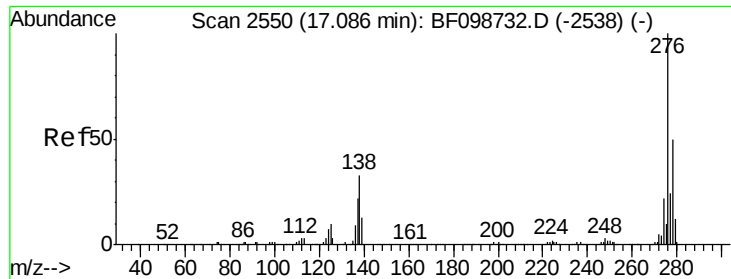


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

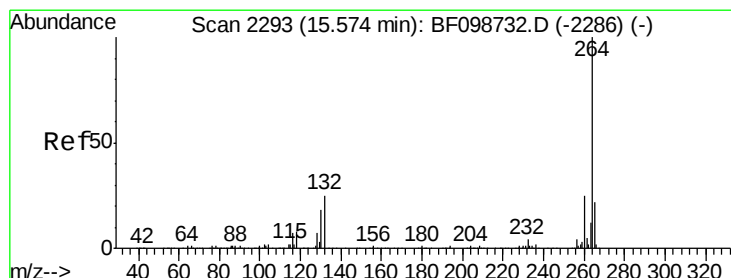
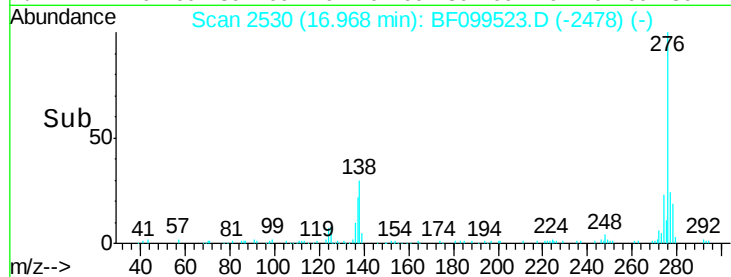
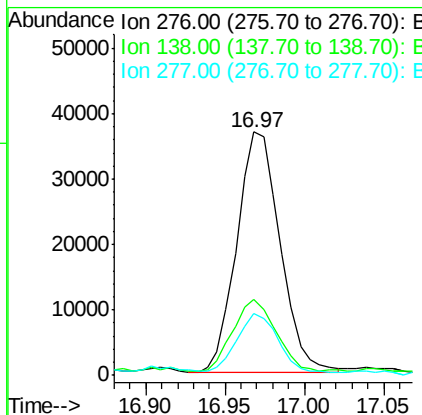
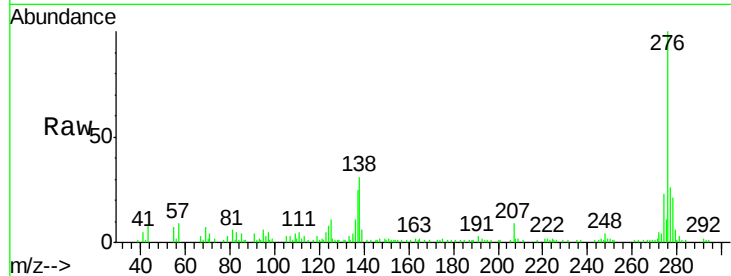




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 7.62 ng
 RT: 16.97 min Scan# 2530
 Delta R.T. 0.01 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

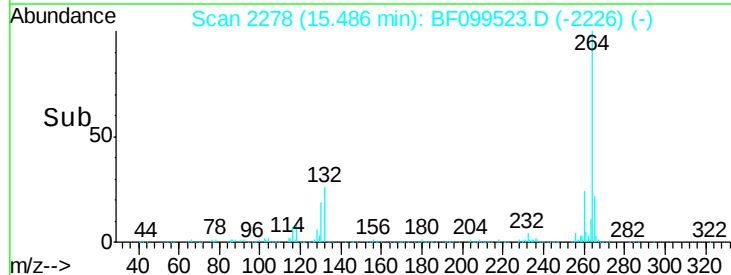
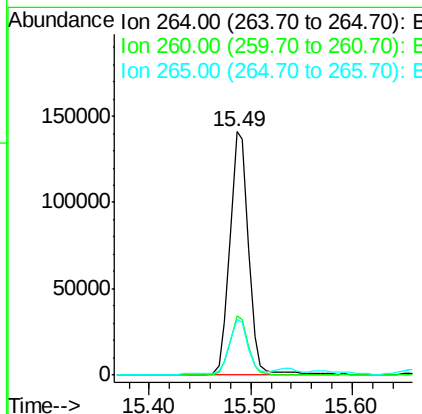
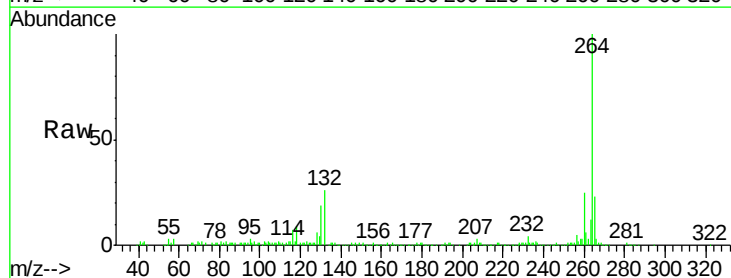
Instrument :
 BNA_F
 ClientSampleId :

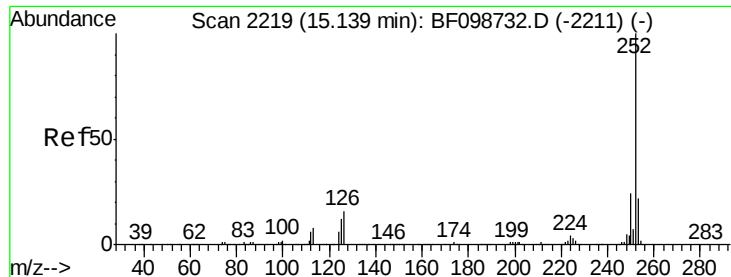
Tot Ion	Ratio	Lower	Upper
276	100		
138	30.5	25.0	37.6
277	23.5	20.1	30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.49 min Scan# 2278
 Delta R.T. 0.01 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.2	28.8
265	22.5	17.5	26.3

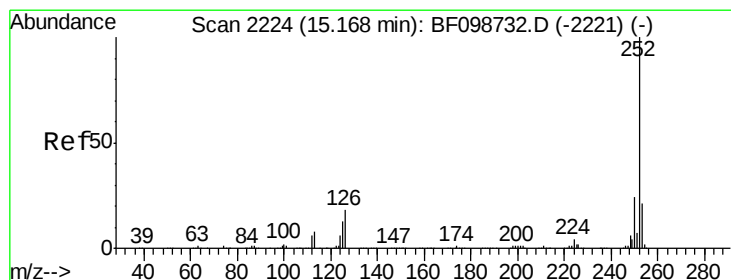
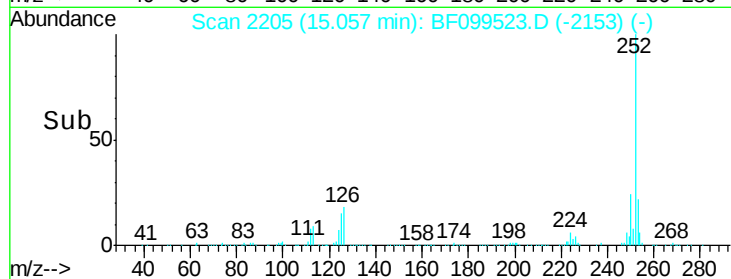
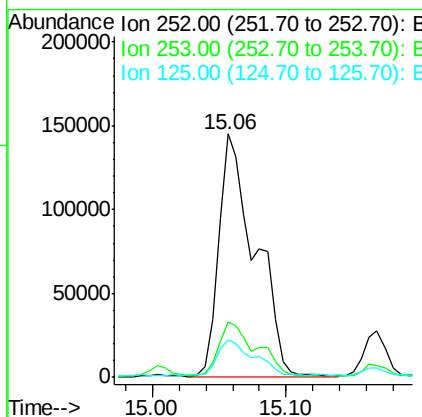
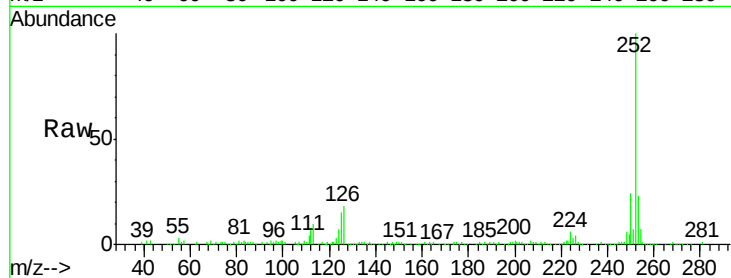




#87
Benzo(b)fluoranthene
Concen: 24.68 ng
RT: 15.06 min Scan# 2205
Delta R.T. 0.01 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

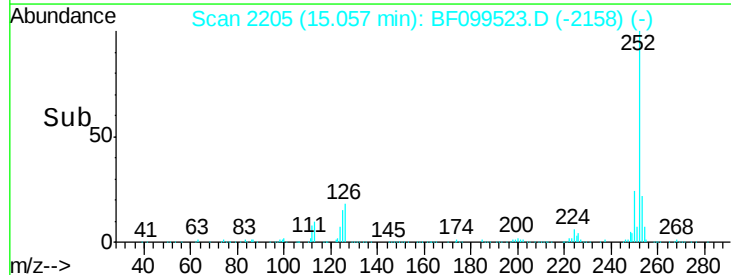
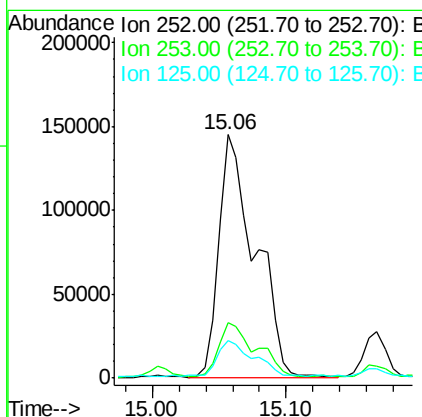
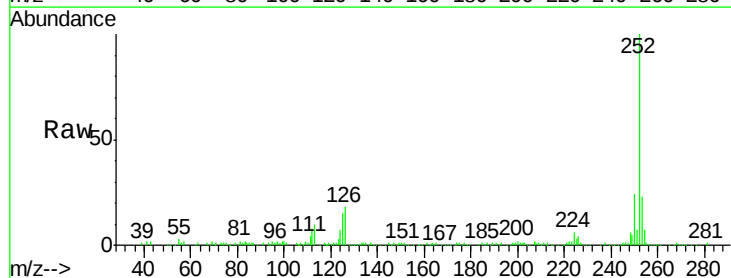
Instrument :
BNA_F
ClientSampleId :

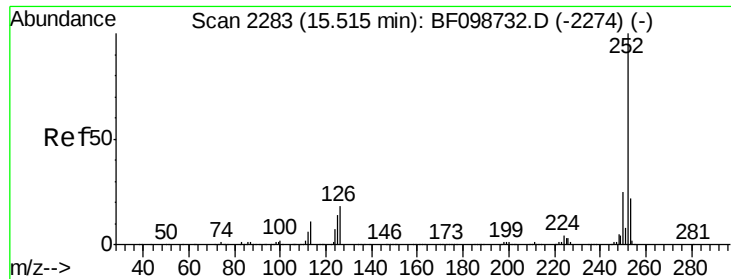
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.6
125	15.5	9.0	13.6#



#88
Benzo(k)fluoranthene
Concen: 24.99 ng
RT: 15.06 min Scan# 2205
Delta R.T. -0.02 min
Lab File: BF099523.D
Acq: 15 Oct 2017 19:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	15.5	10.2	15.2#





#89

Benzo(a)pyrene

Concen: 14.38 ng

RT: 15.43 min Scan# 2268

Delta R.T. 0.01 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

Instrument :

BNA_F

ClientSampleId :

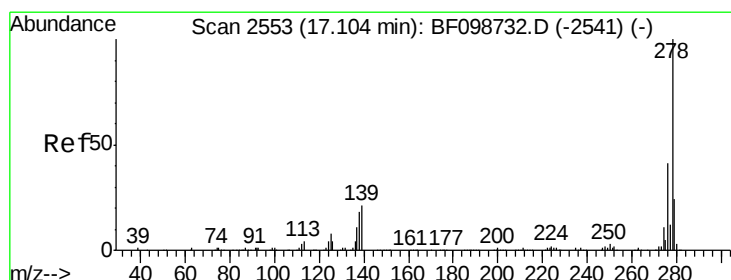
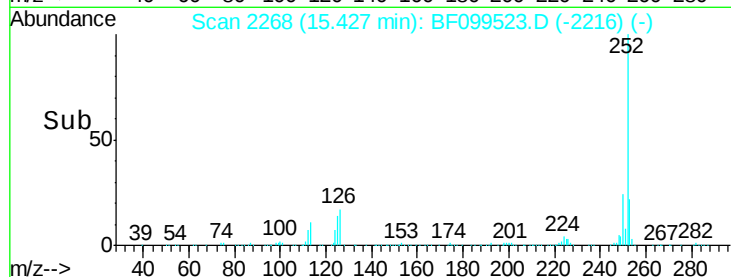
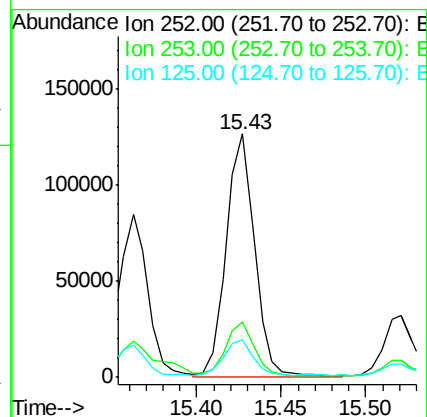
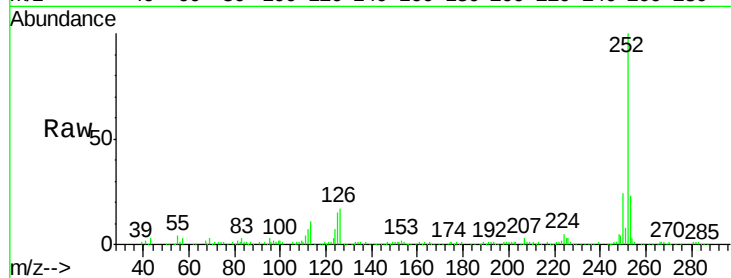
Tot Ion:252 Resp: 147653

Ion Ratio Lower Upper

252 100

253 23.0 17.1 25.7

125 15.2 9.8 14.6#



#90

Dibenzo(a,h)anthracene

Concen: 2.29 ng

RT: 16.97 min Scan# 2531

Delta R.T. 0.00 min

Lab File: BF099523.D

Acq: 15 Oct 2017 19:43

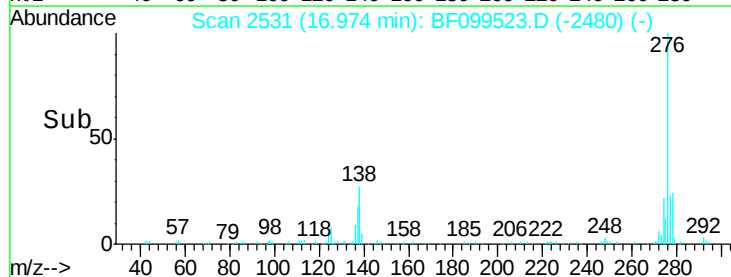
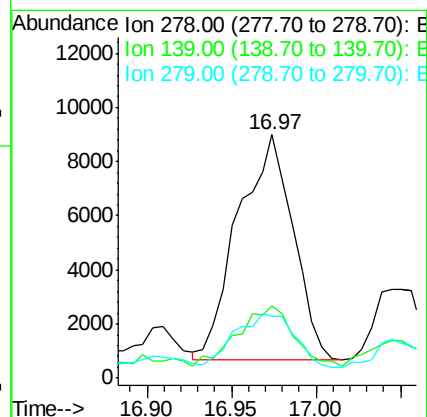
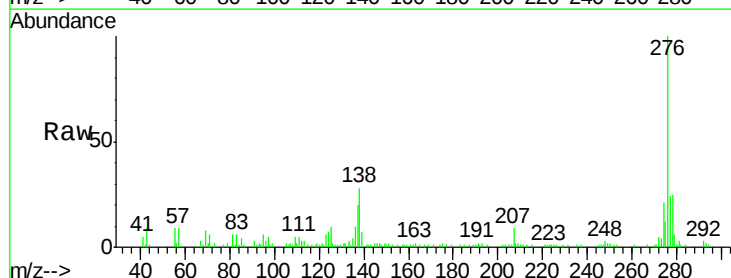
Tgt Ion:278 Resp: 18815

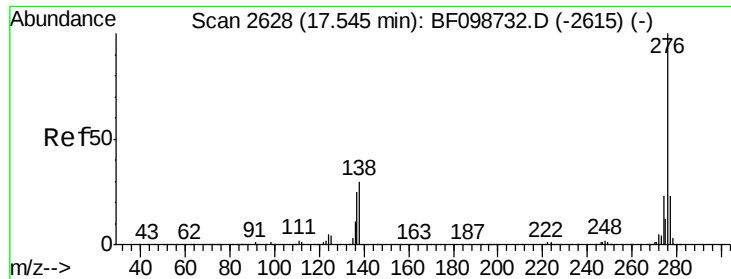
Ion Ratio Lower Upper

278 100

139 29.5 15.9 23.9#

279 25.5 19.0 28.4

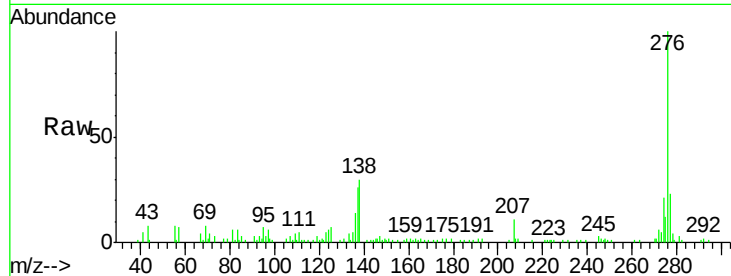




#91
 Benzo(a,h,i)perylene
 Concen: 8.41 ng
 RT: 17.42 min Scan# 2607
 Delta R.T. 0.01 min
 Lab File: BF099523.D
 Acq: 15 Oct 2017 19:43

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.2	17.9	26.9
138	29.8	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

