

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072417\
 Data File : BF096985.D
 Acq On : 24 Jul 2017 12:25
 Operator : SJ/JU
 Sample : I4370-04 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jul 24 14:01:28 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 18 13:33:22 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.54	152	133336	20.00	ng	-0.06
21) Naphthalene-d8	7.82	136	500823	20.00	ng	-0.06
38) Acenaphthene-d10	9.57	164	219816	20.00	ng	-0.06
63) Phenanthrene-d10	11.04	188	356781	20.00	ng	-0.06
75) Chrysene-d12	13.67	240	222205	20.00	ng	-0.06
86) Perylene-d12	15.03	264	196546	20.00	ng	-0.07

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.15	112	233283	26.31	ng	-0.05
7) Phenol-d6	6.20	99	292345	27.47	ng	-0.05
23) Nitrobenzene-d5	7.10	82	158514	19.60	ng	-0.06
41) 2,4,6-Tribromophenol	10.36	330	50230	26.77	ng	-0.06
44) 2-Fluorobiphenyl	8.90	172	288146	20.71	ng	-0.06
78) Terphenyl-d14	12.63	244	200833	15.67	ng	-0.06

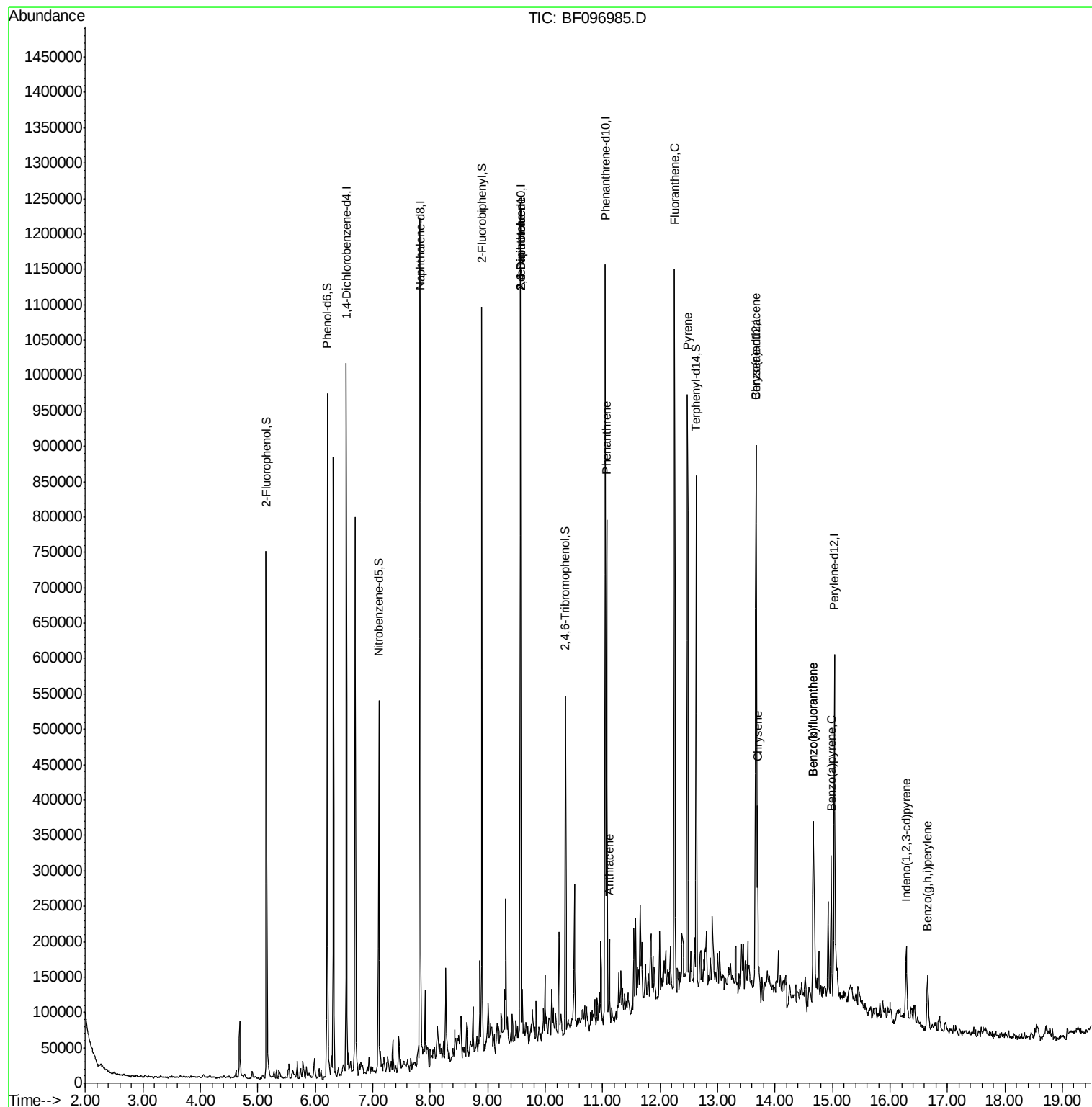
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
50) 2,6-Dinitrotoluene	9.57	165	28744	8.018	ng	# 34
56) 2,4-Dinitrotoluene	9.57	165	28744	6.240	ng	# 34
70) Phenanthrene	11.07	178	235757	12.153	ng	98
71) Anthracene	11.12	178	45734	2.332	ng	98
74) Fluoranthene	12.25	202	367482	19.790	ng	99
77) Pyrene	12.47	202	333960	16.560	ng	99
80) Benzo(a)anthracene	13.66	228	108052	7.804	ng	95
82) Chrysene	13.70	228	102397	7.513	ng	97
85) Indeno(1,2,3-cd)pyrene	16.28	276	53566	7.398	ng	97
87) Benzo(b)fluoranthene	14.66	252	140544	11.856	ng	# 94
88) Benzo(k)fluoranthene	14.66	252	140544	12.521	ng	98
89) Benzo(a)pyrene	14.97	252	79506	7.313	ng	# 94
91) Benzo(a,h,i)perylene	16.66	276	51893	4.844	ng	98

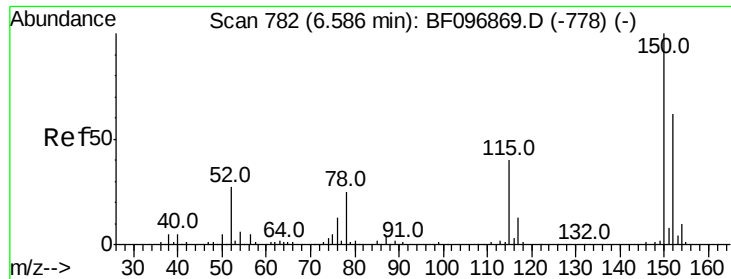
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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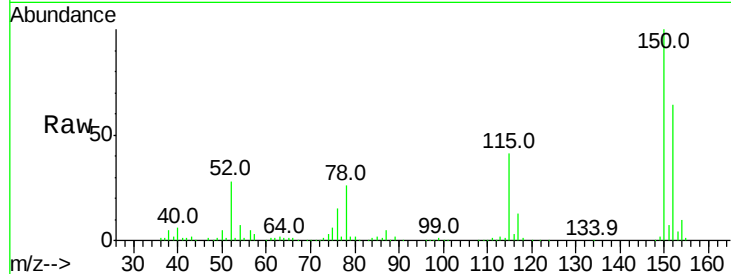


#1

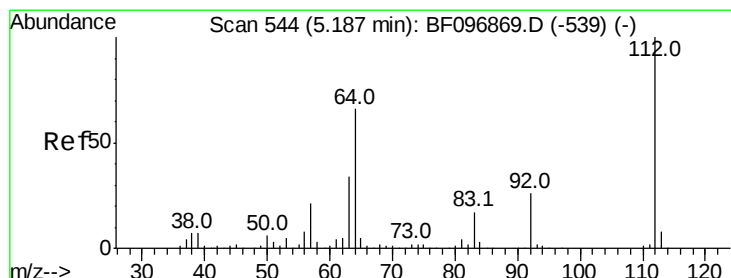
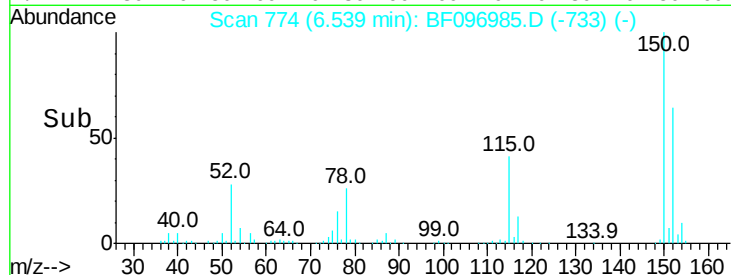
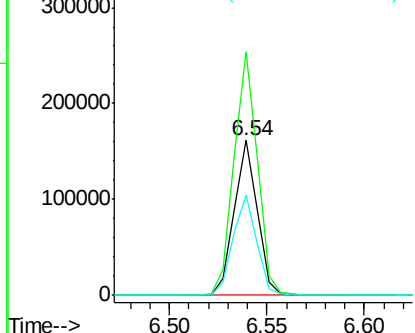
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.54 min Scan# 774
Delta R.T. -0.06 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 133336
Ion Ratio Lower Upper
152 100
150 156.9 126.2 189.2
115 64.6 52.2 78.2



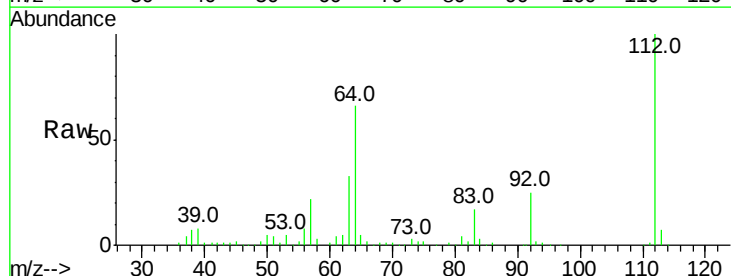
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



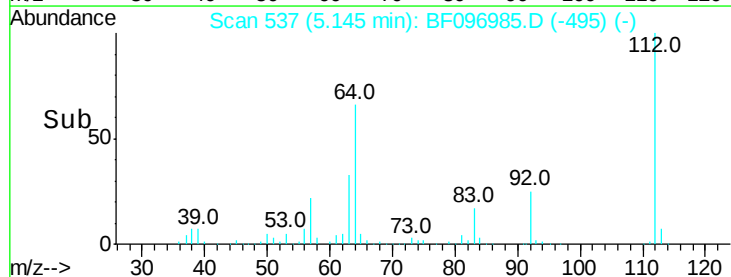
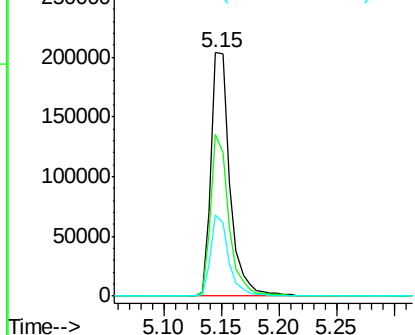
#5

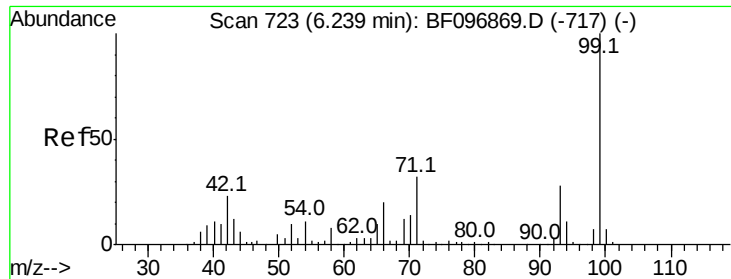
2-Fluorophenol
Concen: 26.307 ng
RT: 5.15 min Scan# 537
Delta R.T. -0.05 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

Tgt Ion:112 Resp: 233283
Ion Ratio Lower Upper
112 100
64 66.3 46.0 69.0
63 33.4 23.4 35.0



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: 27.472 ng

RT: 6.20 min Scan# 717

Delta R.T. -0.05 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

Instrument :

BNA_F

ClientSampleId :

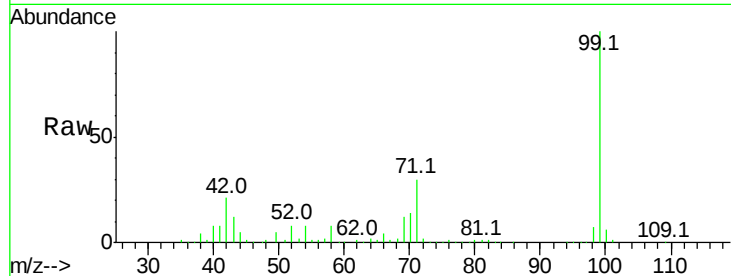
Tot Ion: 99 Resp: 292345

Ion Ratio Lower Upper

99 100

42 21.1 13.5 20.3#

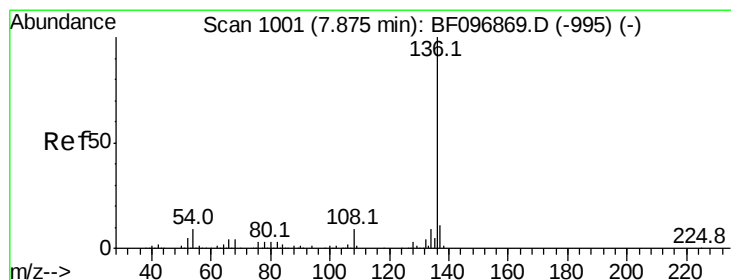
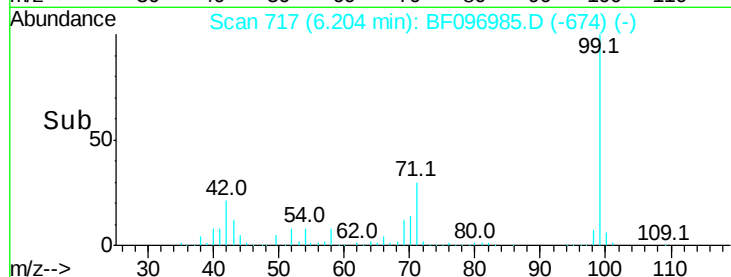
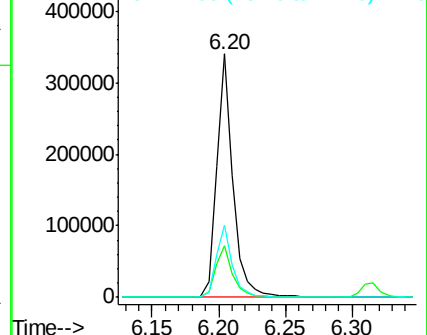
71 29.9 24.5 36.7



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: 20.000 ng

RT: 7.82 min Scan# 992

Delta R.T. -0.06 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

Tgt Ion: 136 Resp: 500823

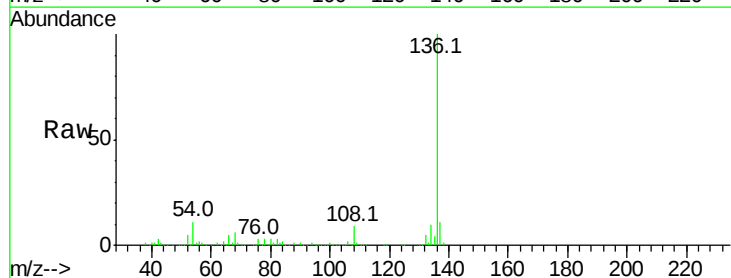
Ion Ratio Lower Upper

136 100

137 11.4 8.5 12.7

54 11.0 4.9 7.3#

68 5.8 4.1 6.1

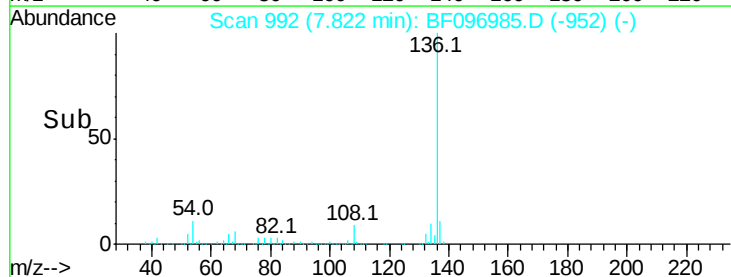
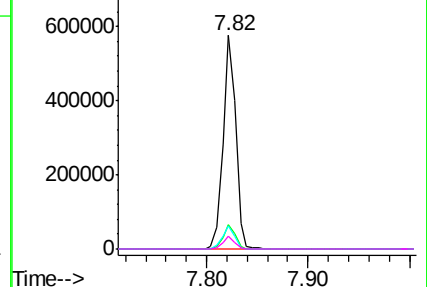


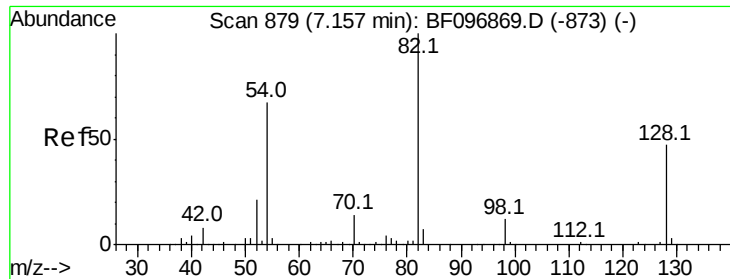
Abundance Ion 136.00 (135.70 to 136.70): E

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

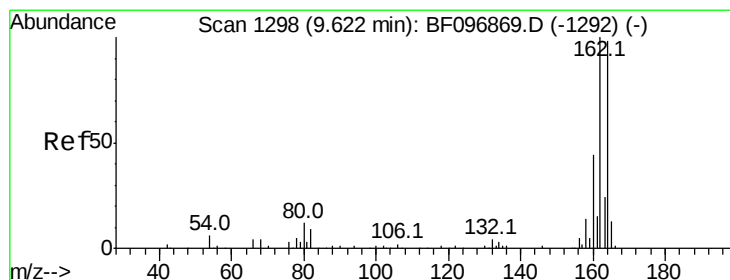
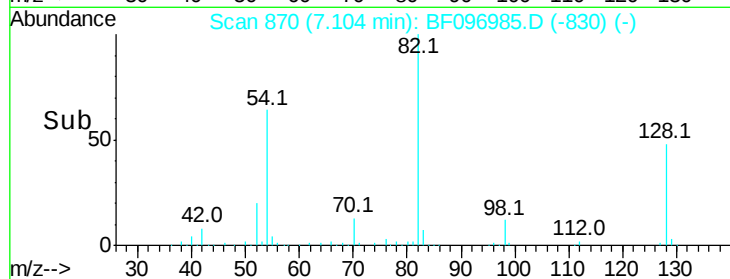
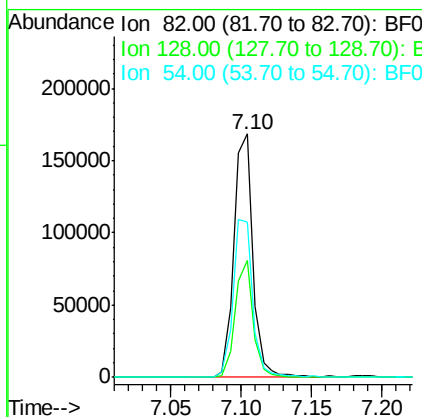
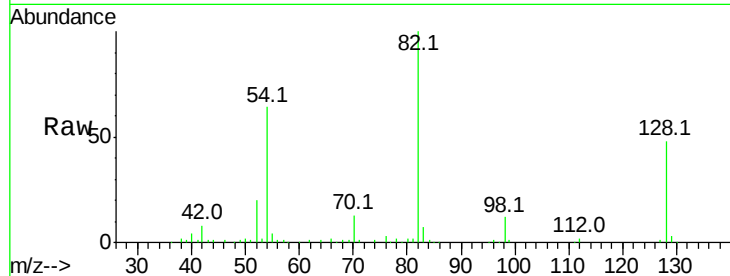




#23
Nitrobenzene-d5
Concen: 19.605 ng
RT: 7.10 min Scan# 870
Delta R.T. -0.06 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

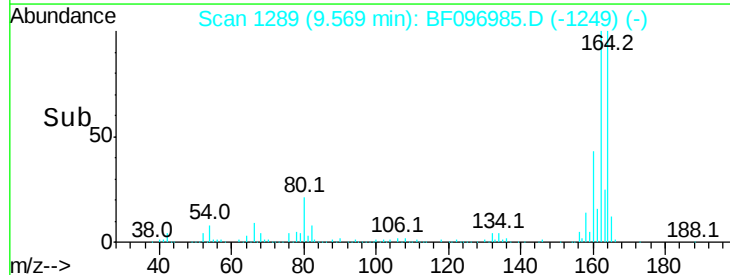
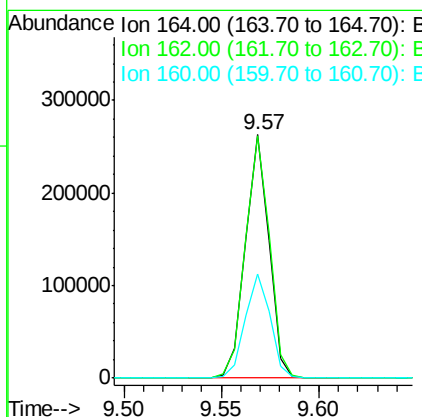
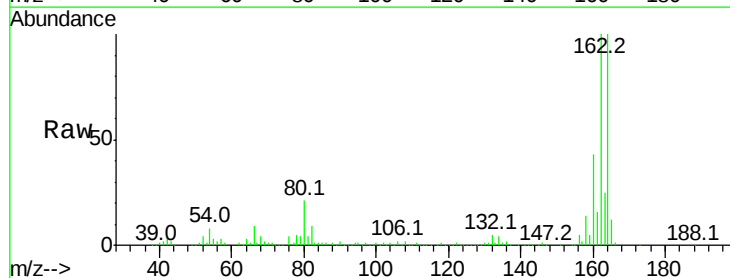
Instrument :
BNA_F
ClientSampled :

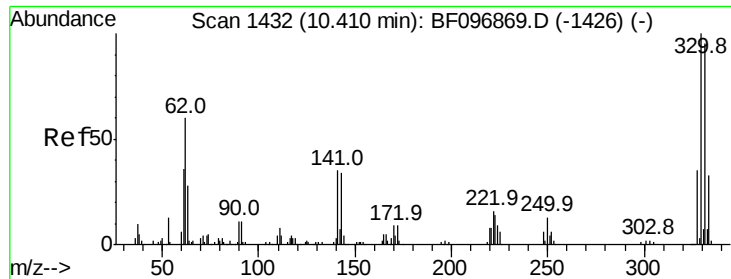
Tot Ion: 82 Resp: 158514
Ion Ratio Lower Upper
82 100
128 47.9 34.0 51.0
54 63.7 42.2 63.2#



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.57 min Scan# 1289
Delta R.T. -0.06 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

Tgt Ion:164 Resp: 219816
Ion Ratio Lower Upper
164 100
162 99.7 82.6 123.8
160 42.9 36.2 54.2

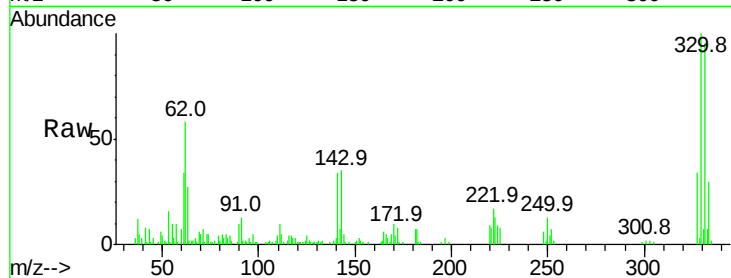




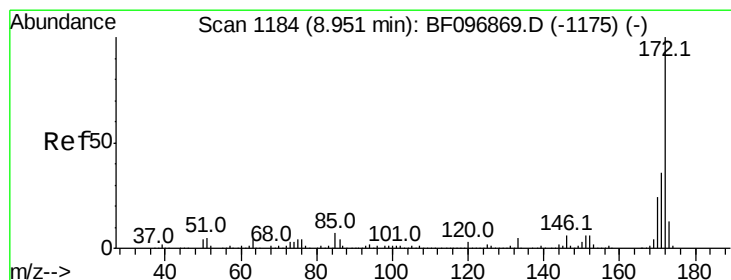
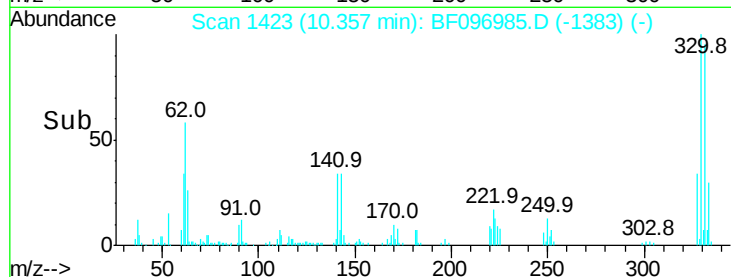
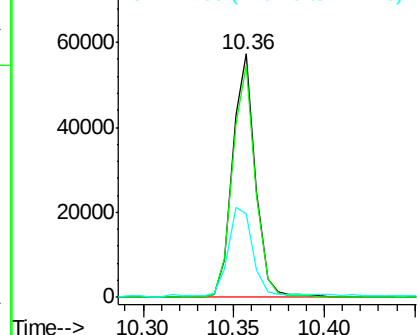
#41
 2,4,6-Tribromophenol
 Concen: 26.771 ng
 RT: 10.36 min Scan# 1423
 Delta R.T. -0.06 min
 Lab File: BF096985.D
 Acq: 24 Jul 2017 12:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:330 Resp: 50230
 Ion Ratio Lower Upper
 330 100
 332 95.6 76.6 115.0
 141 44.9 31.4 47.2

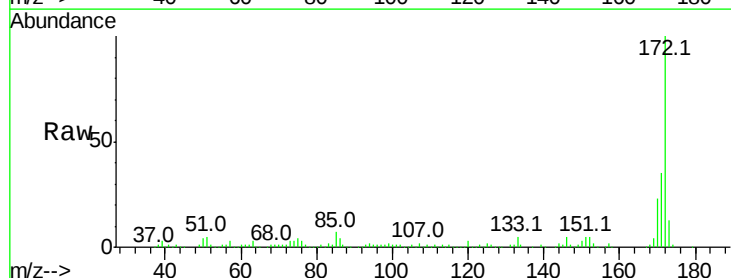


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

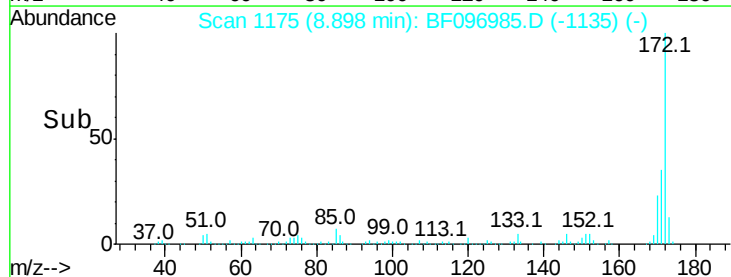
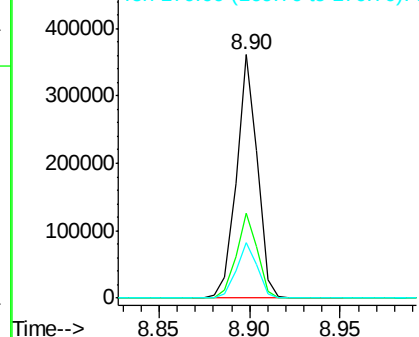


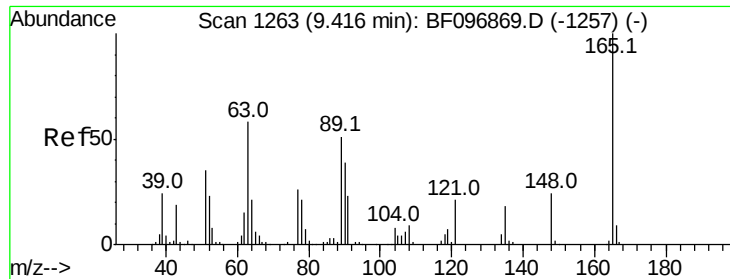
#44
 2-Fluorobiphenyl
 Concen: 20.710 ng
 RT: 8.90 min Scan# 1175
 Delta R.T. -0.06 min
 Lab File: BF096985.D
 Acq: 24 Jul 2017 12:25

Tgt Ion:172 Resp: 288146
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.6 44.4
 170 22.9 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

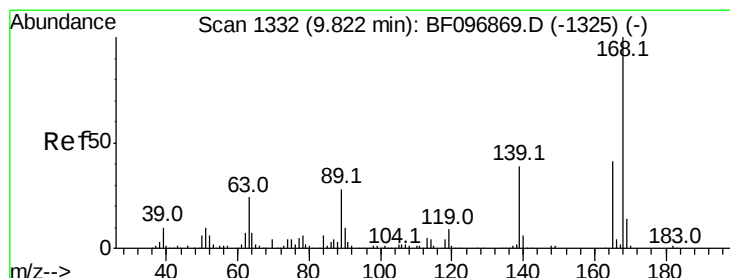
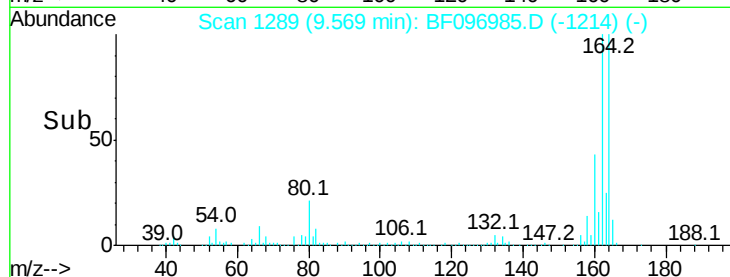
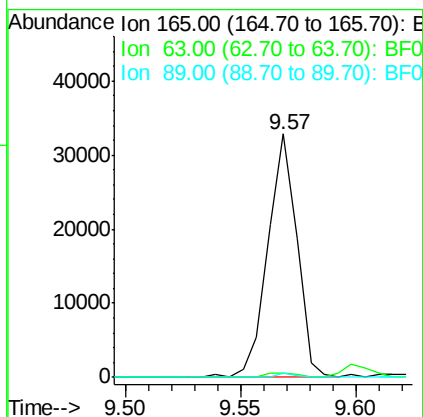
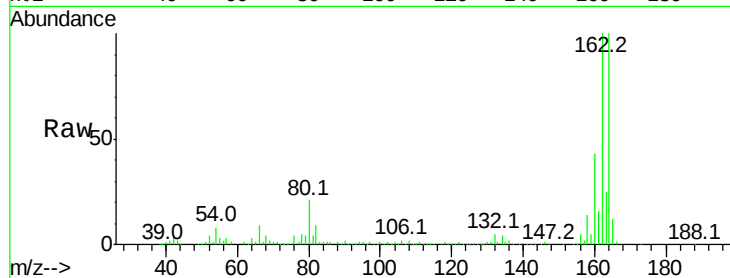




#50
 2,6-Dinitrotoluene
 Concen: 8.018 ng
 RT: 9.57 min Scan# 1289
 Delta R.T. 0.14 min
 Lab File: BF096985.D
 Acq: 24 Jul 2017 12:25

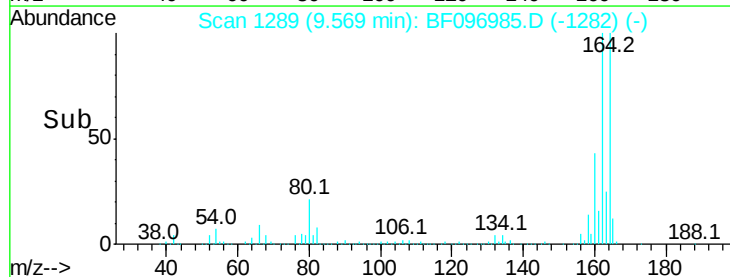
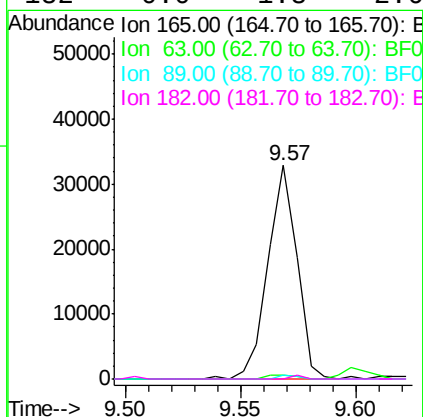
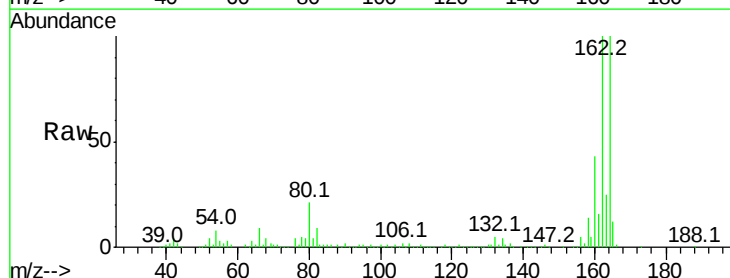
Instrument :
 BNA_F
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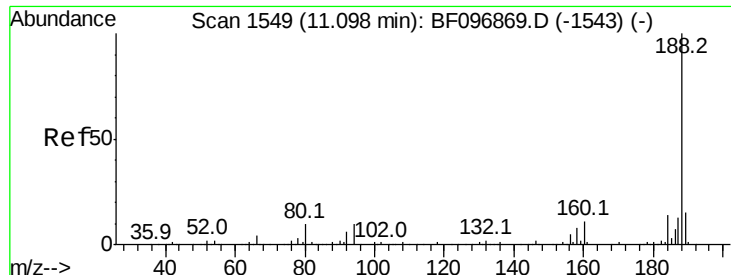
Tot Ion:165 Resp: 28744
 Ion Ratio Lower Upper
 165 100
 63 1.8 34.3 51.5#
 89 1.8 37.1 55.7#



#56
 2,4-Dinitrotoluene
 Concen: 6.240 ng
 RT: 9.57 min Scan# 1289
 Delta R.T. -0.26 min
 Lab File: BF096985.D
 Acq: 24 Jul 2017 12:25

Tgt Ion:165 Resp: 28744
 Ion Ratio Lower Upper
 165 100
 63 1.8 25.4 38.0#
 89 1.8 46.4 69.6#
 182 0.0 1.8 2.6#

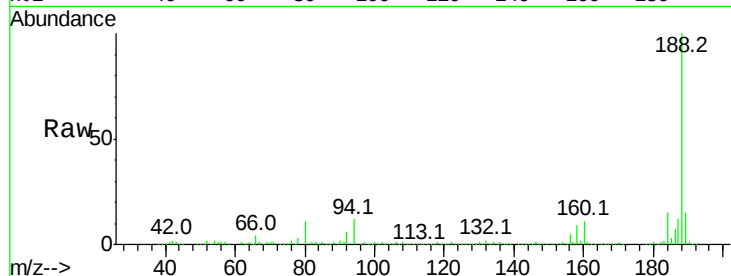




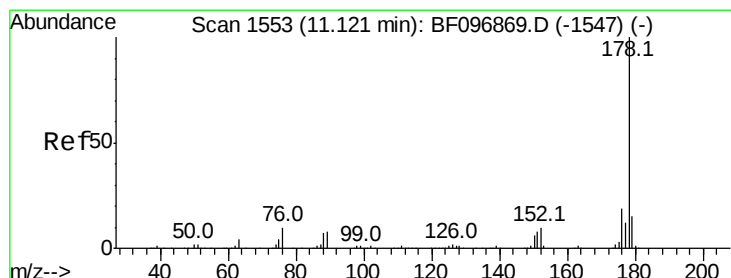
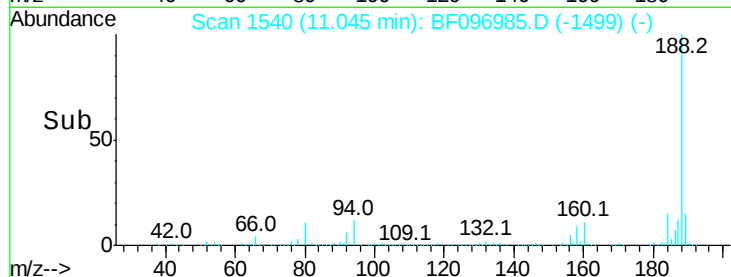
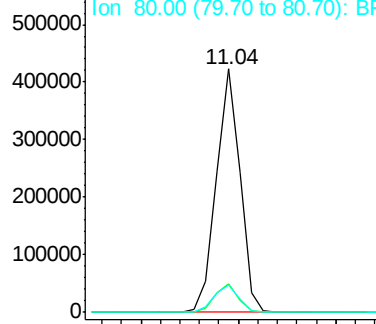
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.04 min Scan# 1540
Delta R.T. -0.06 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

Instrument :
BNA_F
ClientSampled :

Tot Ion:188 Resp: 356781
Ion Ratio Lower Upper
188 100
94 11.6 9.4 14.2
80 11.2 10.2 15.2

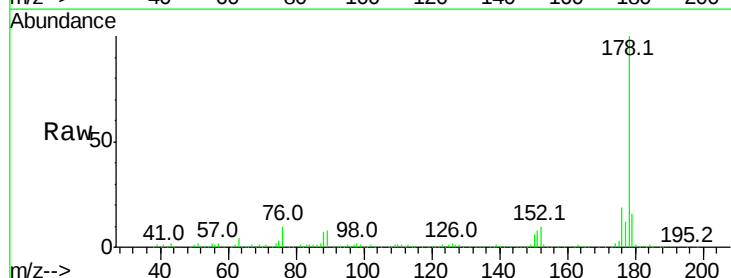


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

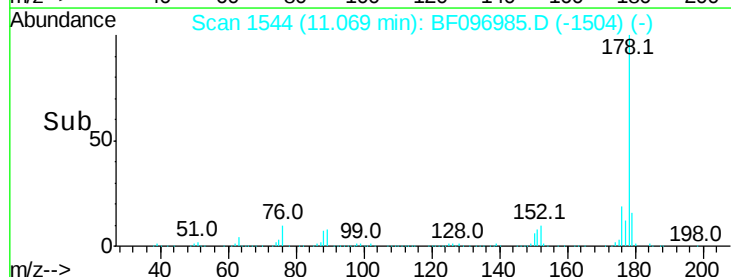
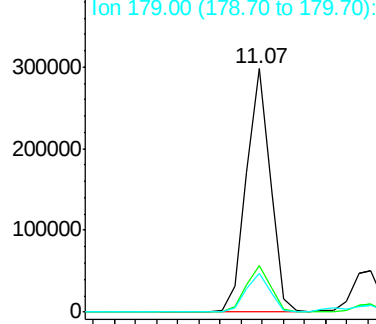


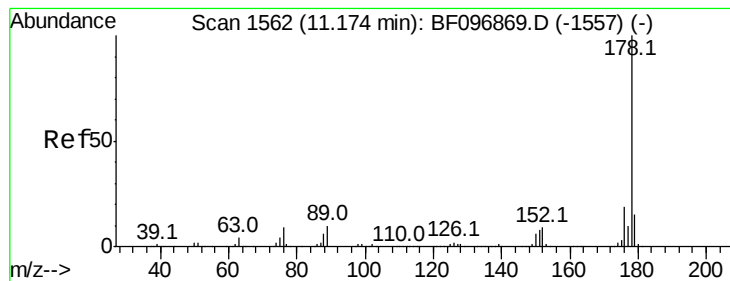
#70
Phenanthrene
Concen: 12.153 ng
RT: 11.07 min Scan# 1544
Delta R.T. -0.06 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

Tgt Ion:178 Resp: 235757
Ion Ratio Lower Upper
178 100
176 19.1 16.2 24.4
179 15.7 12.6 19.0



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: 2.332 ng

RT: 11.12 min Scan# 1553

Delta R.T. -0.06 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

Instrument :

BNA_F

ClientSampleId :

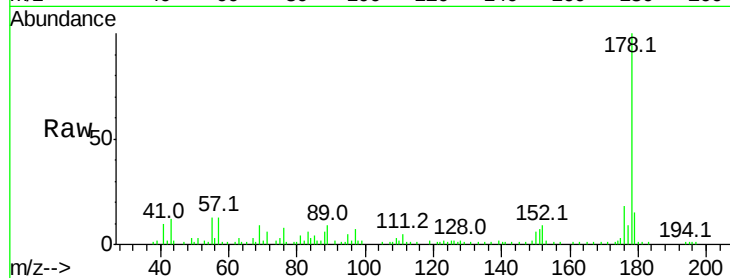
Tot Ion:178 Resp: 45734

Ion Ratio Lower Upper

178 100

176 18.2 15.8 23.8

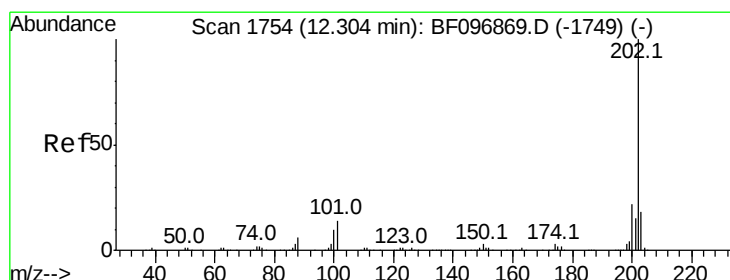
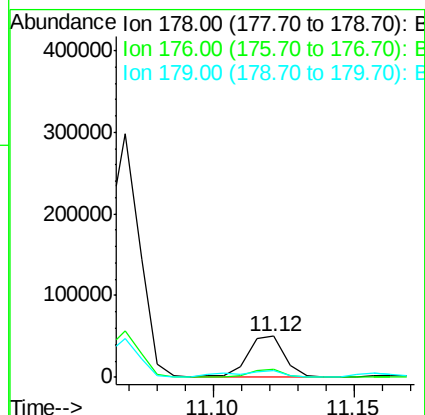
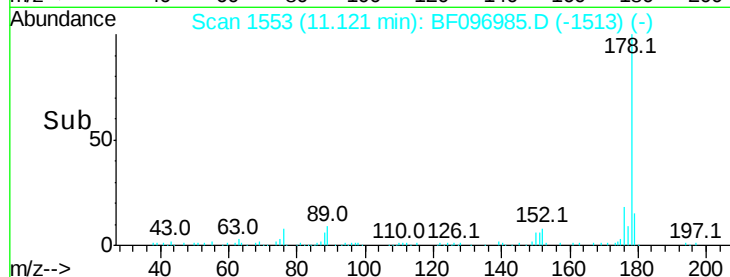
179 15.5 12.7 19.1



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



#74

Fluoranthene

Concen: 19.790 ng

RT: 12.25 min Scan# 1745

Delta R.T. -0.06 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

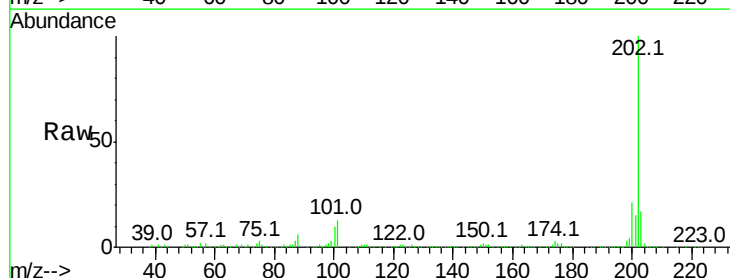
Tgt Ion:202 Resp: 367482

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.2

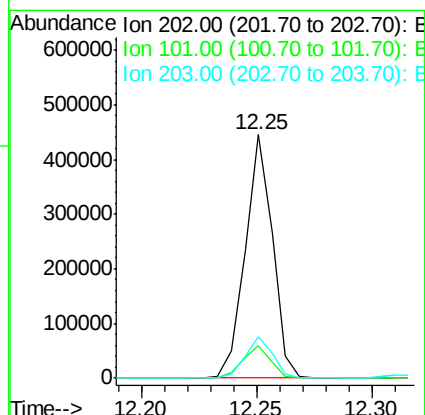
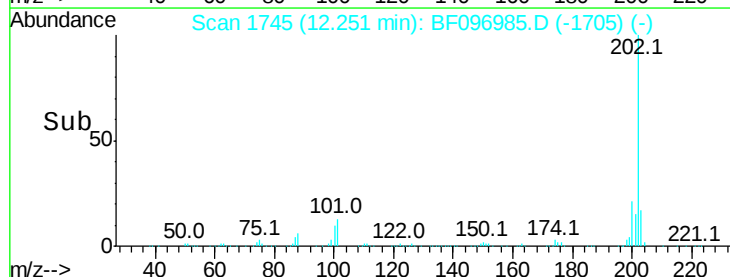
203 17.1 0.0 38.1

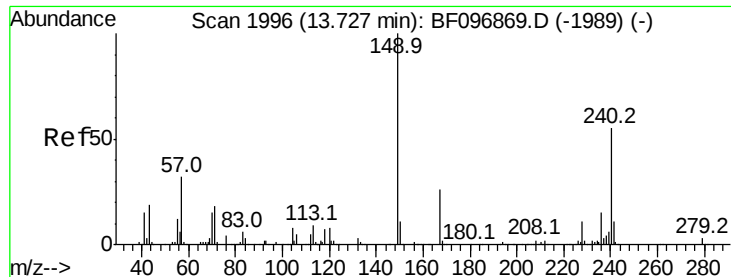


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.67 min Scan# 1986

Delta R.T. -0.06 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

Instrument :

BNA_F

ClientSampleId :

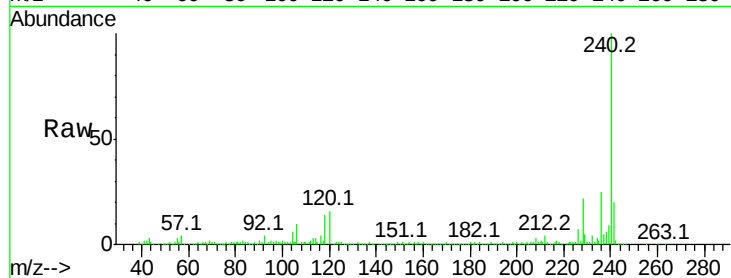
Tot Ion:240 Resp: 222205

Ion Ratio Lower Upper

240 100

120 15.5 5.8 8.8#

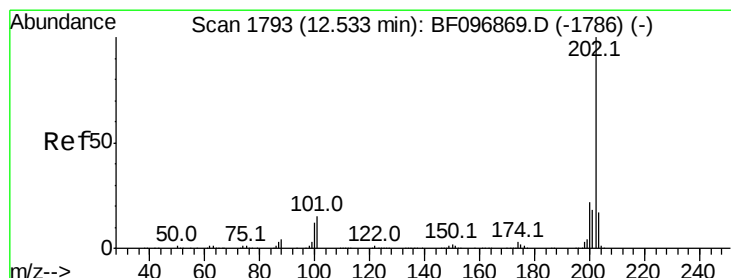
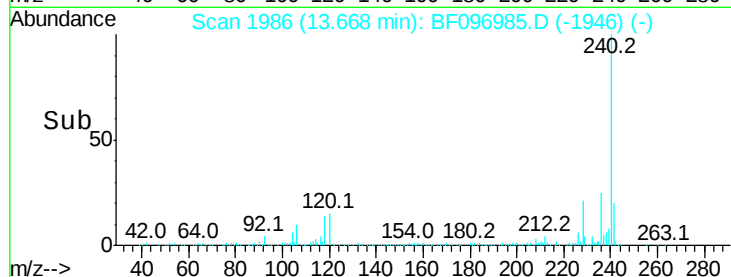
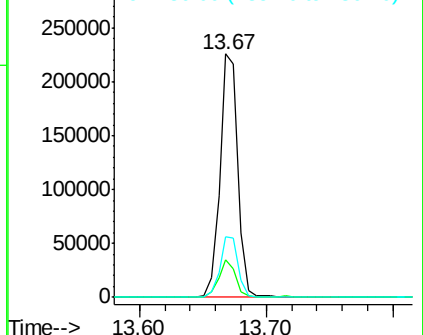
236 25.1 20.5 30.7



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

Pyrene

Concen: 16.560 ng

RT: 12.47 min Scan# 1783

Delta R.T. -0.06 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

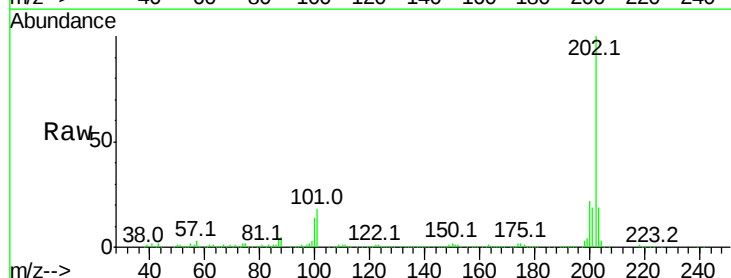
Tgt Ion:202 Resp: 333960

Ion Ratio Lower Upper

202 100

200 22.5 17.6 26.4

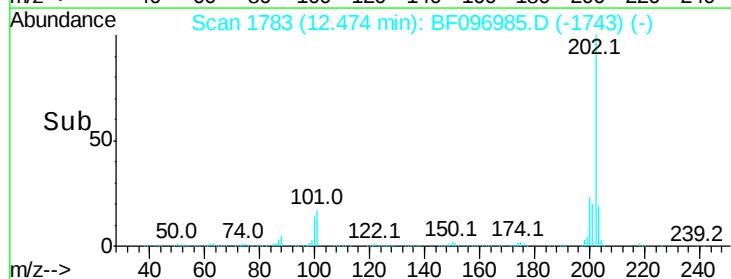
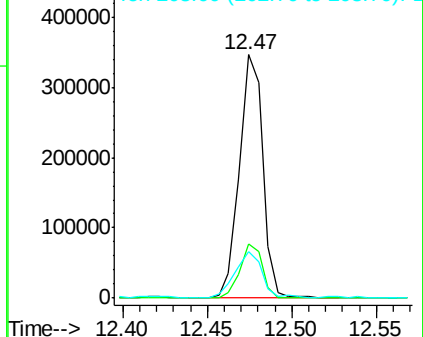
203 18.8 14.4 21.6

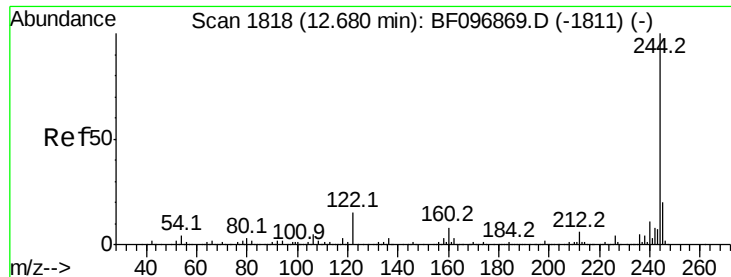


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 15.675 ng

RT: 12.63 min Scan# 1809

Delta R.T. -0.06 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

Instrument :

BNA_F

ClientSampleId :

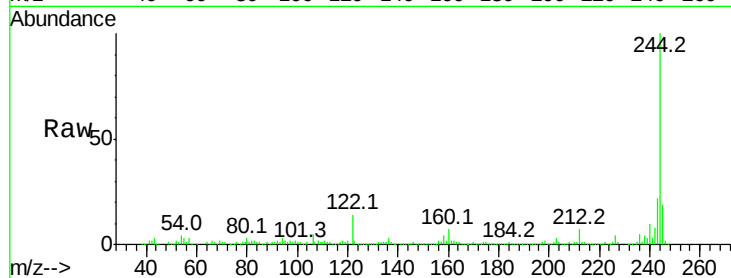
Tot Ion:244 Resp: 200833

Ion Ratio Lower Upper

244 100

212 6.6 6.0 9.0

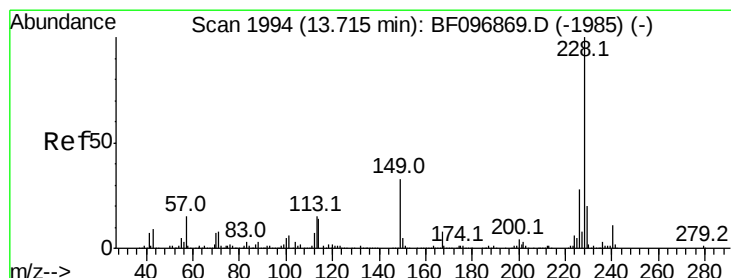
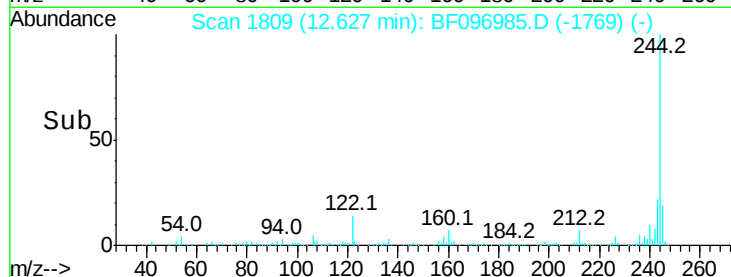
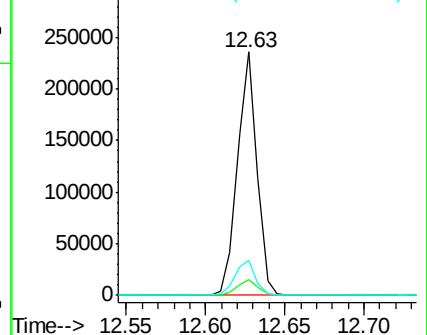
122 14.1 10.3 15.5



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: 7.804 ng

RT: 13.66 min Scan# 1985

Delta R.T. -0.06 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

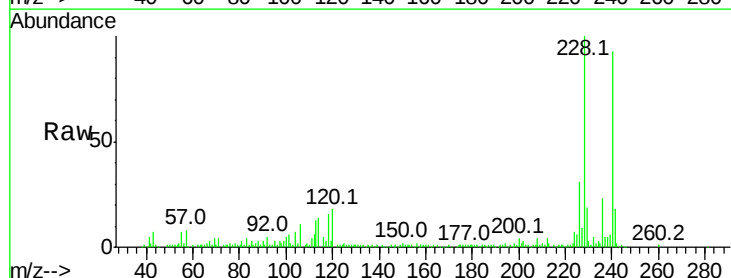
Tgt Ion:228 Resp: 108052

Ion Ratio Lower Upper

228 100

226 31.1 22.6 33.8

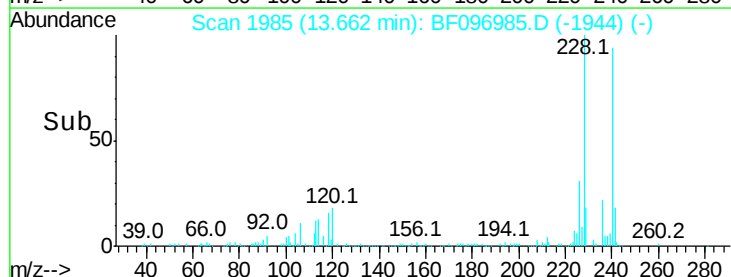
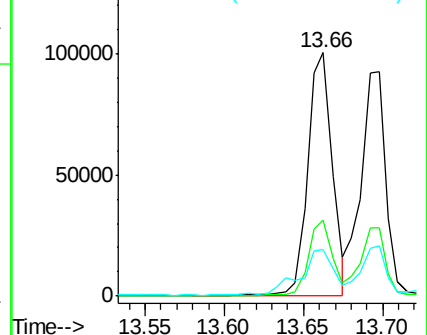
229 18.9 16.3 24.5

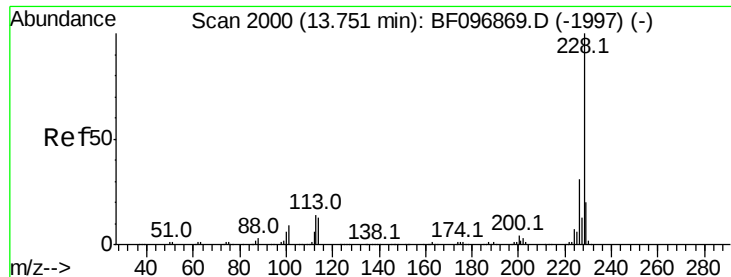


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 7.513 ng

RT: 13.70 min Scan# 1991

Delta R.T. -0.06 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

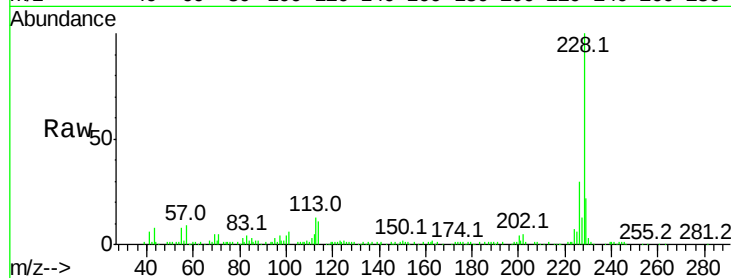
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 102397

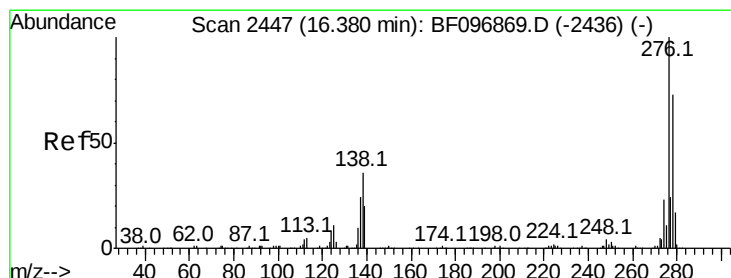
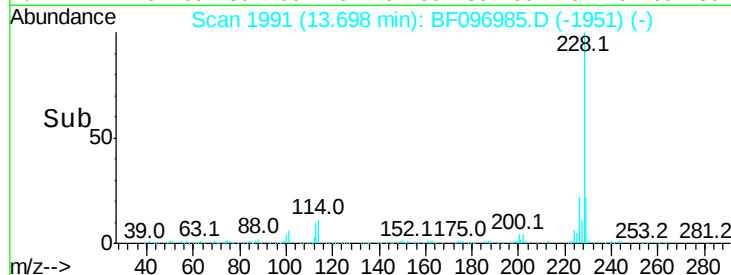
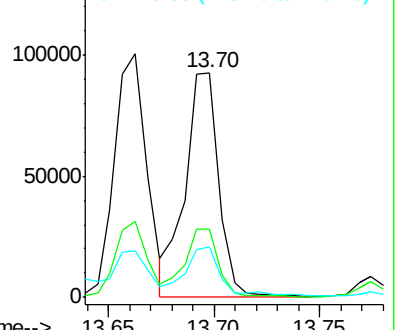
Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.9	37.3
229	22.1	15.8	23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 7.398 ng

RT: 16.28 min Scan# 2430

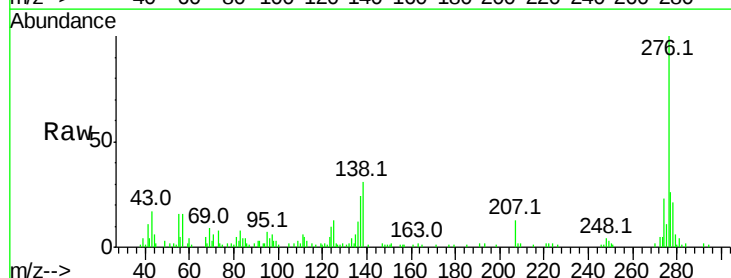
Delta R.T. -0.11 min

Lab File: BF096985.D

Acq: 24 Jul 2017 12:25

Tgt Ion:276 Resp: 53566

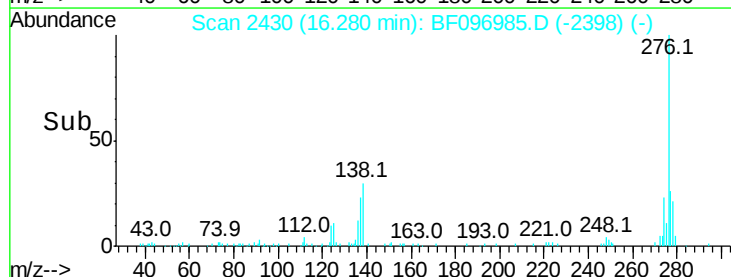
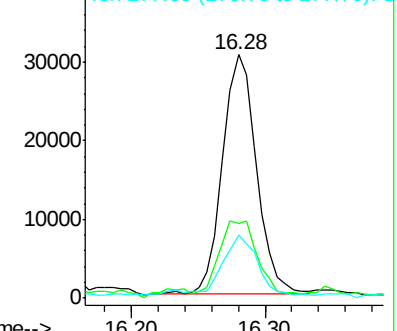
Ion	Ratio	Lower	Upper
276	100		
138	35.4	27.8	41.6
277	27.7	20.2	30.4

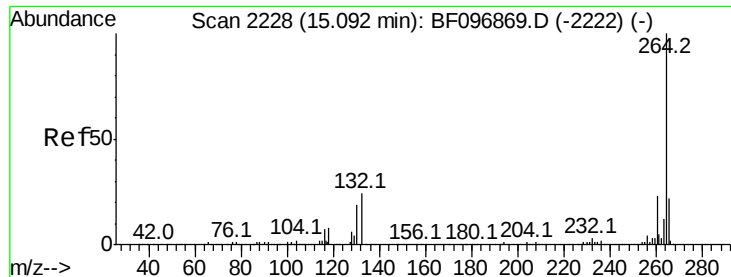


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

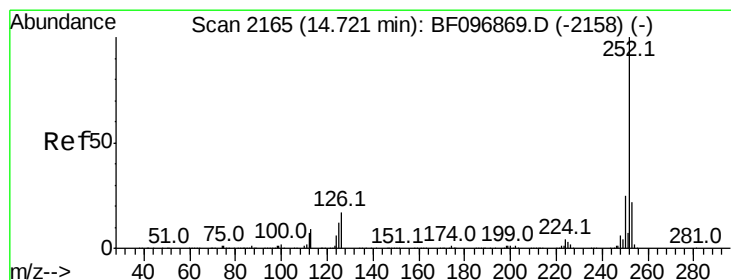
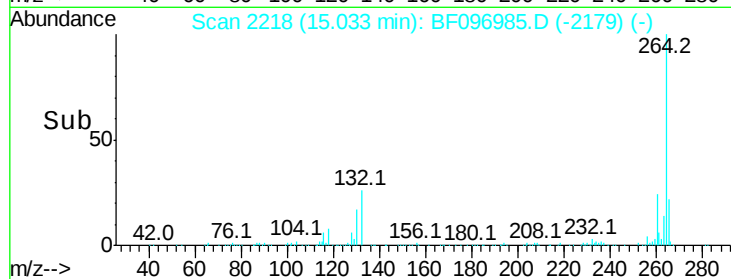
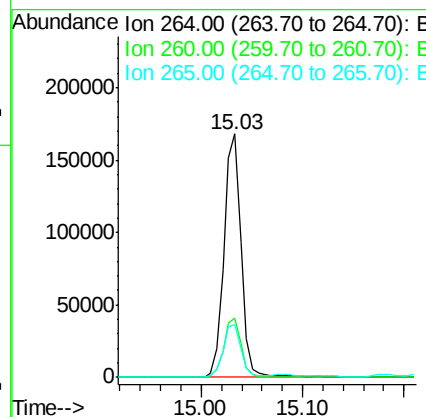
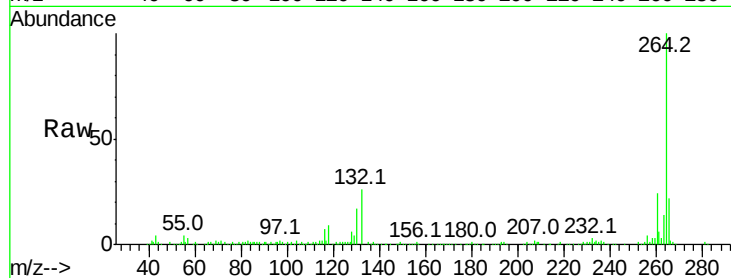




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.03 min Scan# 2218
Delta R.T. -0.07 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

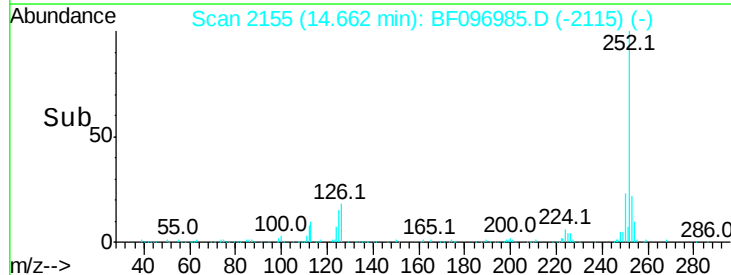
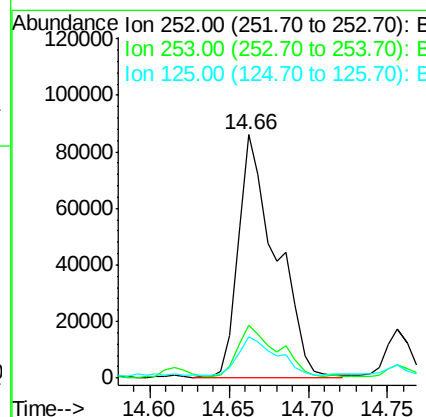
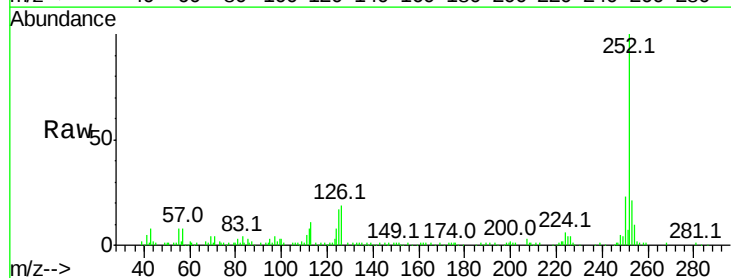
Instrument :
BNA_F
ClientSampled :

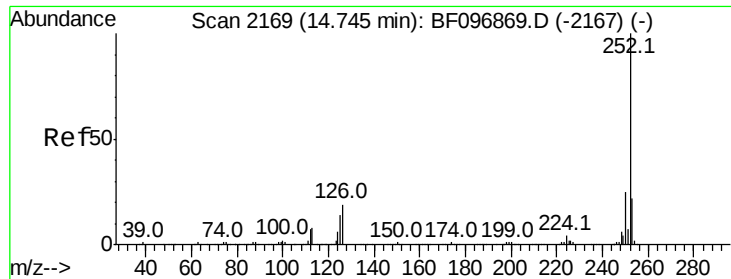
Tot Ion:264 Resp: 196546
Ion Ratio Lower Upper
264 100
260 24.2 19.5 29.3
265 21.6 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 11.856 ng
RT: 14.66 min Scan# 2155
Delta R.T. -0.06 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

Tgt Ion:252 Resp: 140544
Ion Ratio Lower Upper
252 100
253 21.5 18.1 27.1
125 16.8 9.8 14.8#

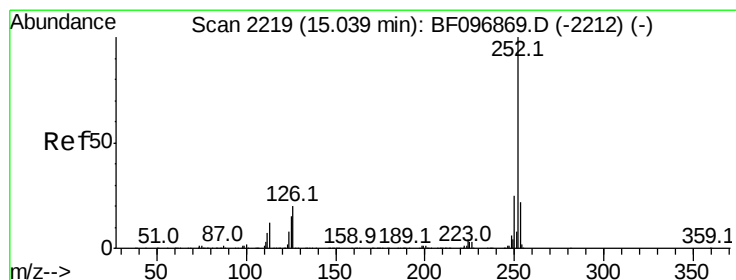
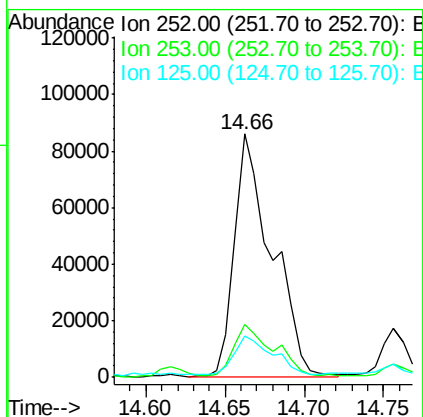
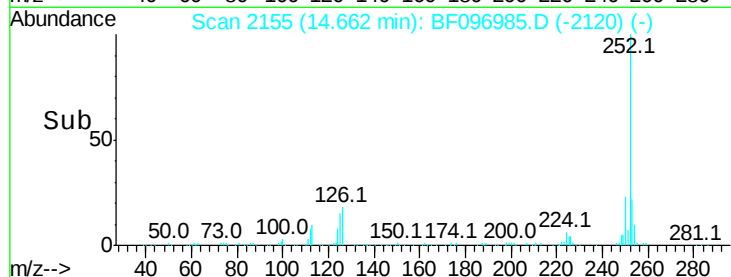
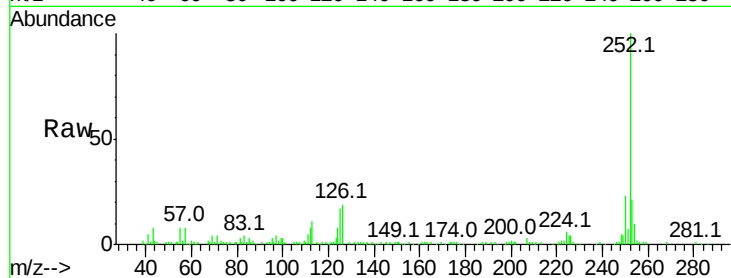




#88
Benzo(k)fluoranthene
Concen: 12.521 ng
RT: 14.66 min Scan# 2155
Delta R.T. -0.09 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

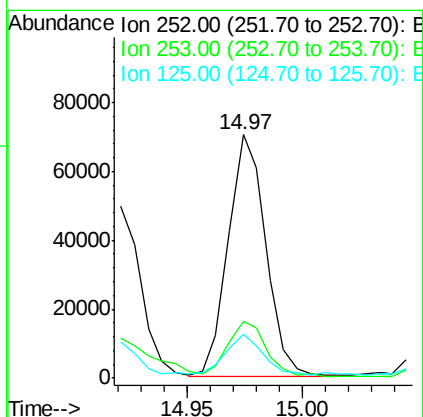
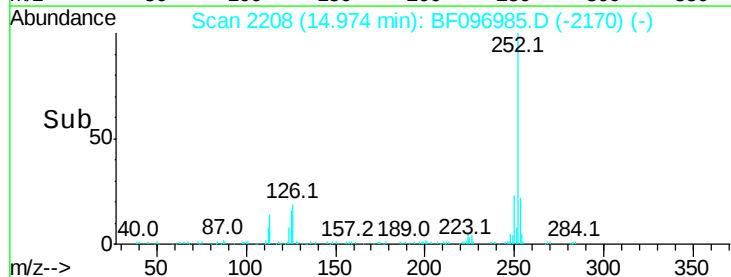
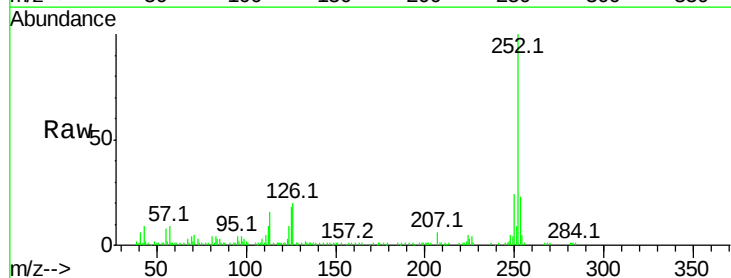
Instrument :
BNA_F
ClientSampleId :

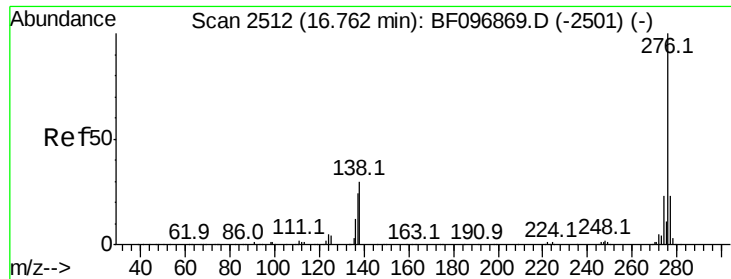
Tot Ion:252 Resp: 140544
Ion Ratio Lower Upper
252 100
253 21.5 18.4 27.6
125 16.8 13.1 19.7



#89
Benzo(a)pyrene
Concen: 7.313 ng
RT: 14.97 min Scan# 2208
Delta R.T. -0.08 min
Lab File: BF096985.D
Acq: 24 Jul 2017 12:25

Tgt Ion:252 Resp: 79506
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 17.9 11.0 16.4#

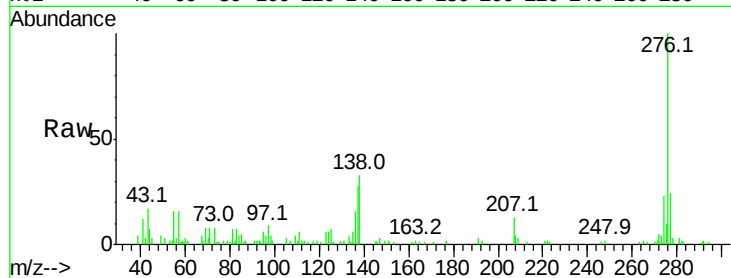




#91
 Benzo(a,h,i)perylene
 Concen: 4.844 ng
 RT: 16.66 min Scan# 2494
 Delta R.T. -0.12 min
 Lab File: BF096985.D
 Acq: 24 Jul 2017 12:25

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.6	28.0
138	32.8	25.4	38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

