

Data Path : Z:\HPCHEM1\BNA F\DATA\BF061417\
 Data File : BF095948.D
 Acq On : 15 Jun 2017 5:40
 Operator : SJ/MA
 Sample : I3635-04DL 5X
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Jun 15 06:40:00 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF060517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jun 05 16:15:31 2017
 Response via : Initial Calibration

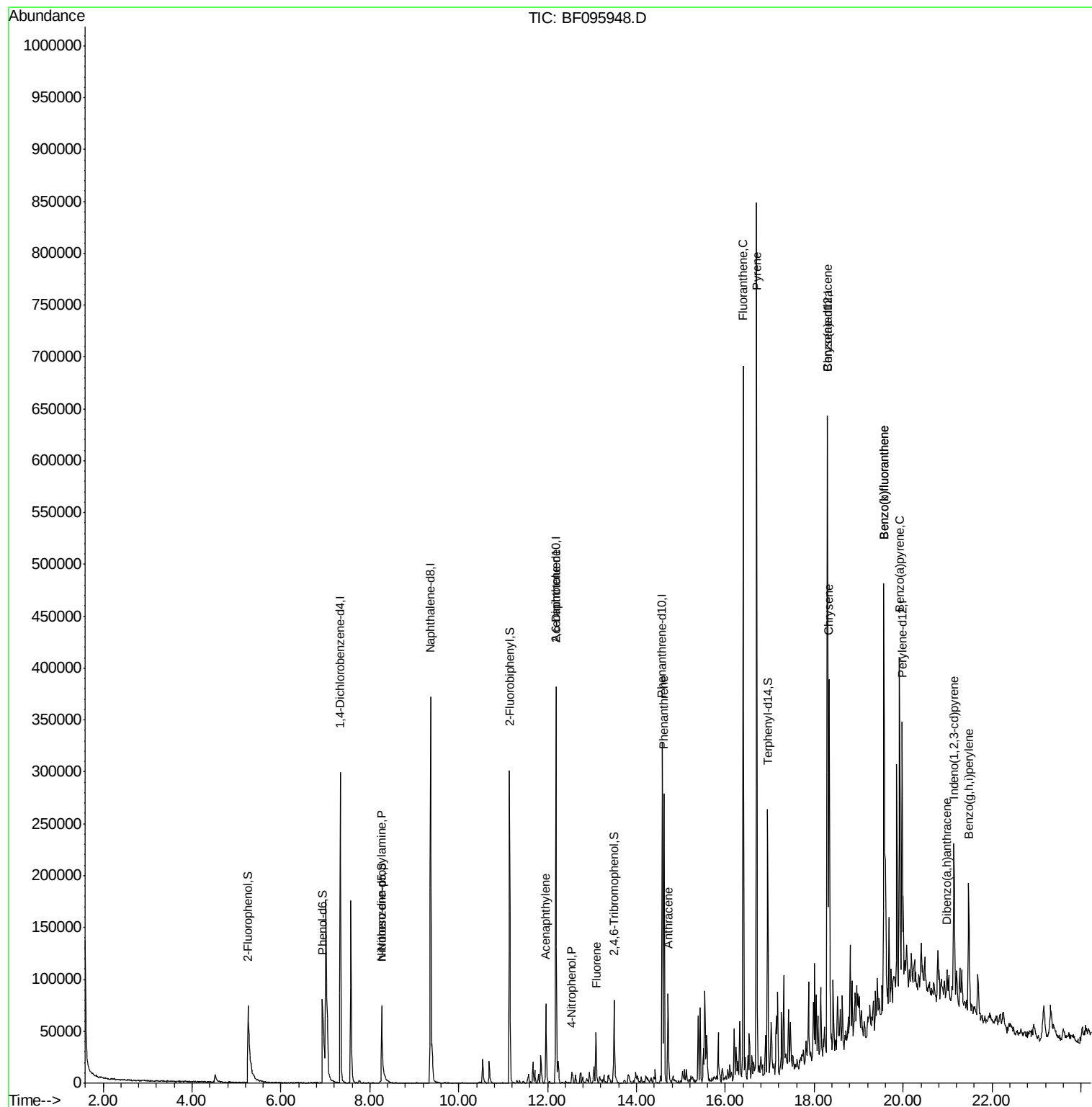
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.33	152	69183	20.00	ng	-0.06
21) Naphthalene-d8	9.36	136	271975	20.00	ng	-0.07
38) Acenaphthene-d10	12.19	164	105791	20.00	ng	-0.07
63) Phenanthrene-d10	14.58	188	157897	20.00	ng	-0.06
75) Chrysene-d12	18.30	240	133054	20.00	ng	-0.05
86) Perylene-d12	19.97	264	97729	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.26	112	86683	19.97	ng	-0.03
7) Phenol-d6	6.93	99	111791	21.51	ng	-0.02
23) Nitrobenzene-d5	8.26	82	63476	14.49	ng	-0.06
41) 2,4,6-Tribromophenol	13.49	330	15754	16.83	ng	-0.06
44) 2-Fluorobiphenyl	11.15	172	133232	17.53	ng	-0.07
78) Terphenyl-d14	16.95	244	90410	16.86	ng	-0.06
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	8.26	70	7045	2.14	ng	# 77
48) Acenaphthylene	11.96	152	54238	4.66	ng	97
50) 2,6-Dinitrotoluene	12.19	165	13701	7.82	ng	# 31
55) 4-Nitrophenol	12.54	139	3101	7.08	ng	# 25
57) Fluorene	13.09	166	21634	2.63	ng	96
70) Phenanthrene	14.62	178	160598	17.63	ng	98
71) Anthracene	14.71	178	54809	5.76	ng	98
74) Fluoranthene	16.40	202	369655	40.99	ng	99
77) Pyrene	16.70	202	386016	38.88	ng	96
80) Benzo(a)anthracene	18.29	228	200495	25.92	ng	96
82) Chrysene	18.33	228	181832	23.52	ng	99
85) Indeno(1,2,3-cd)pyrene	21.14	276	82252	12.43	ng	93
87) Benzo(b)fluoranthene	19.57	252	277347	45.32	ng	# 96
88) Benzo(k)fluoranthene	19.57	252	277347	47.42	ng	99
89) Benzo(a)pyrene	19.92	252	143588	25.53	ng	99
90) Dibenzo(a,h)anthracene	20.99	278	16289	3.41	ng	93
91) Benzo(a,h,i)perylene	21.47	276	80247	16.50	ng	98

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

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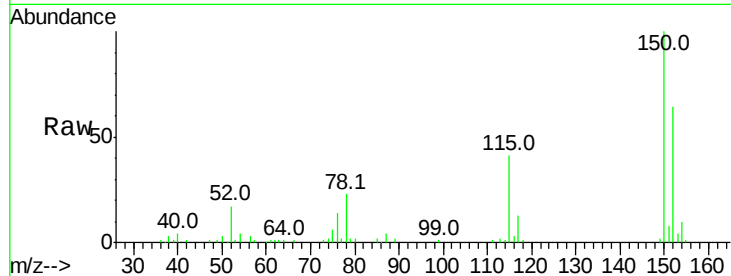


#1

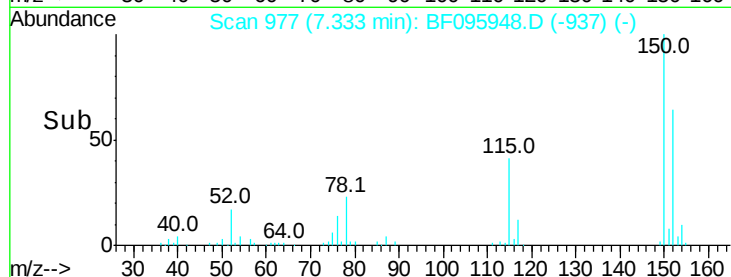
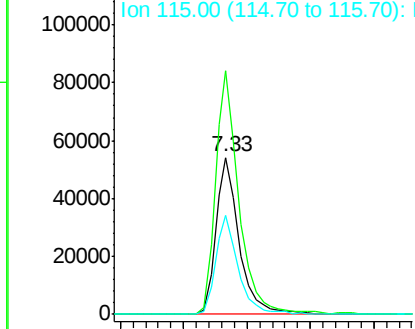
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.33 min Scan# 977
Delta R.T. -0.06 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 69183
Ion Ratio Lower Upper
152 100
150 155.2 126.2 189.2
115 63.2 52.2 78.2



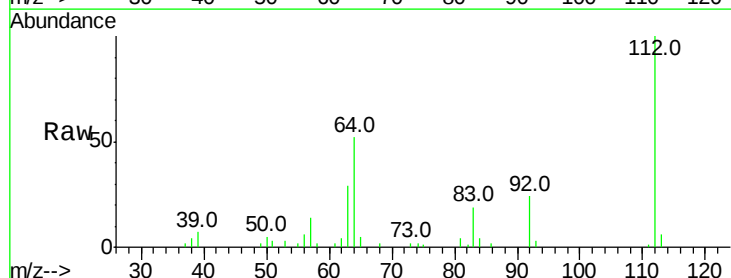
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



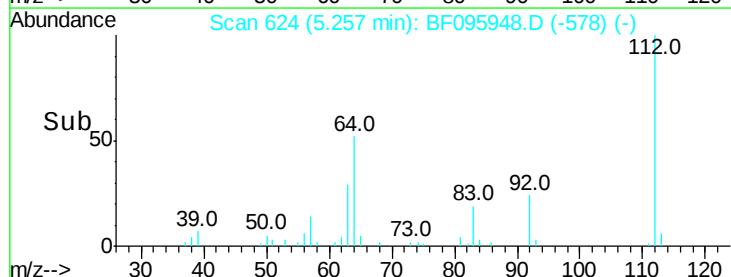
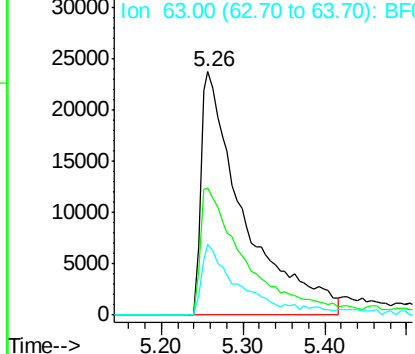
#5

2-Fluorophenol
Concen: 19.97 ng
RT: 5.26 min Scan# 624
Delta R.T. -0.03 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Tgt Ion:112 Resp: 86683
Ion Ratio Lower Upper
112 100
64 52.4 46.0 69.0
63 29.1 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: 21.51 ng

RT: 6.93 min Scan# 909

Delta R.T. -0.02 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

Instrument :

BNA_F

ClientSampleId :

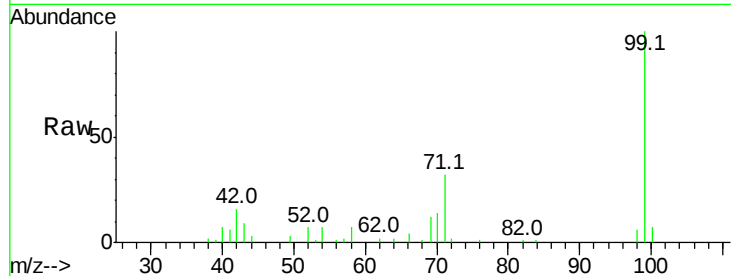
Tot Ion: 99 Resp: 111791

Ion Ratio Lower Upper

99 100

42 16.3 13.5 20.3

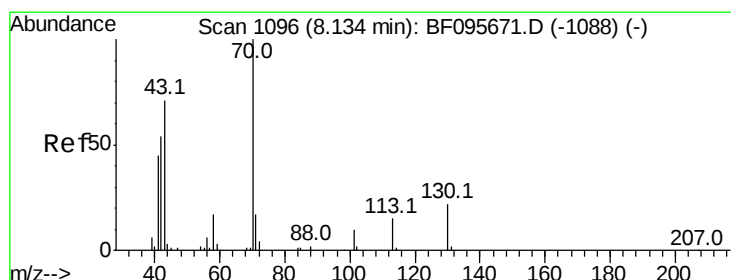
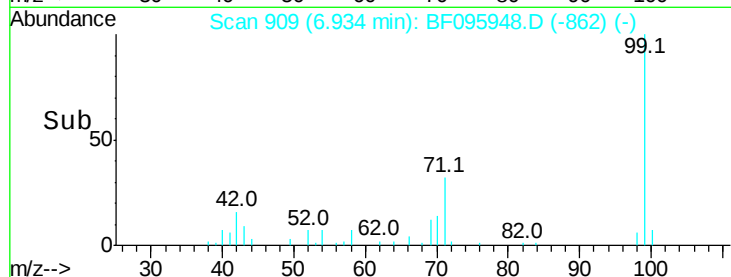
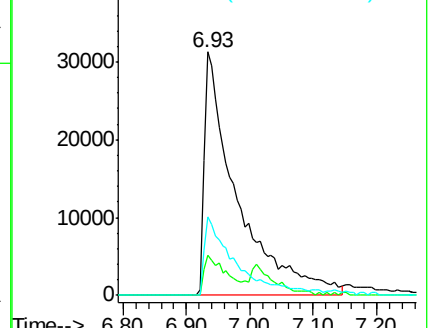
71 32.0 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 2.14 ng

RT: 8.26 min Scan# 1135

Delta R.T. 0.13 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

Tgt Ion: 70 Resp: 7045

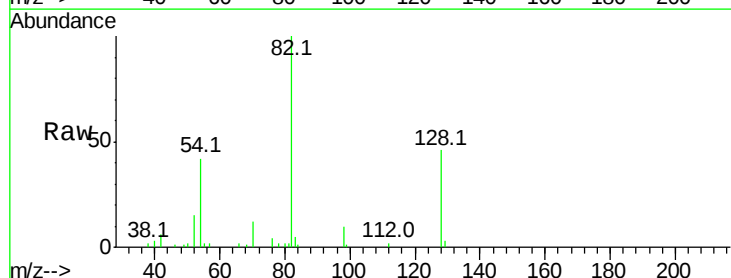
Ion Ratio Lower Upper

70 100

42 47.2 47.2 70.8#

101 0.0 7.2 10.8#

130 0.0 15.9 23.9#

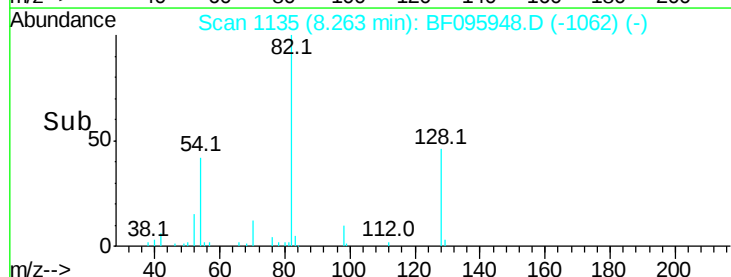
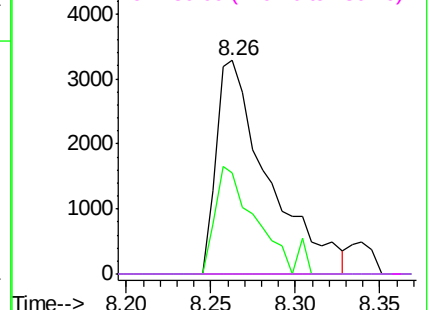


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 9.36 min Scan# 1322

Delta R.T. -0.07 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

Instrument :

BNA_F

ClientSampleId :

Tot Ion:136 Resp: 271975

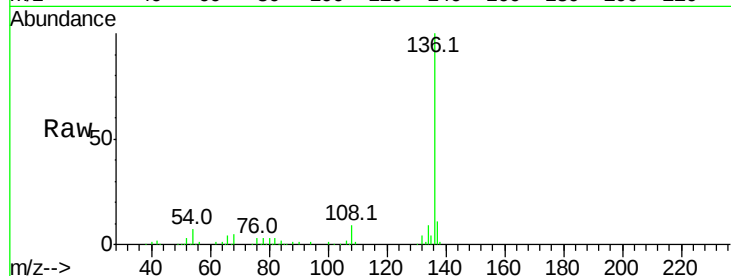
Ion Ratio Lower Upper

136 100

137 10.6 8.5 12.7

54 6.8 4.9 7.3

68 5.3 4.1 6.1

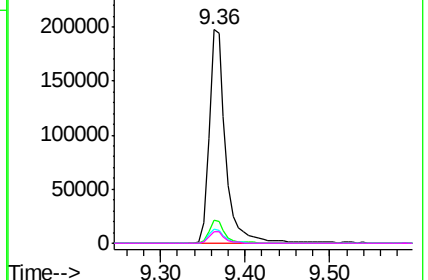
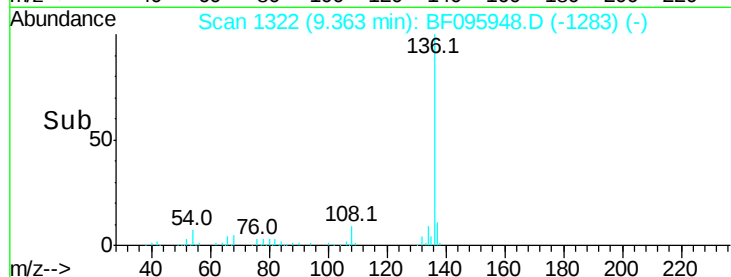


Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.49 ng

RT: 8.26 min Scan# 1135

Delta R.T. -0.06 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

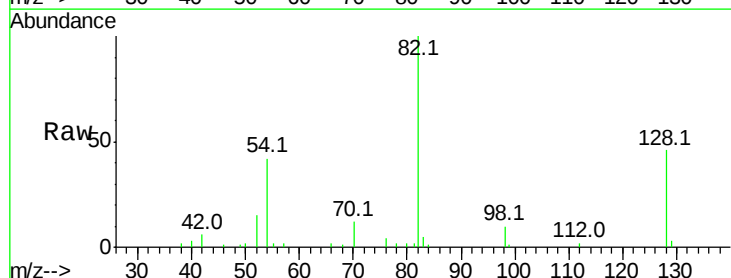
Tgt Ion: 82 Resp: 63476

Ion Ratio Lower Upper

82 100

128 46.1 34.0 51.0

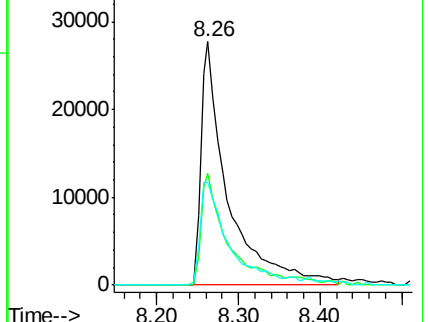
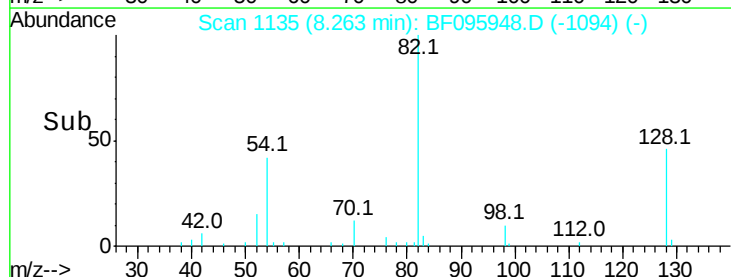
54 42.4 42.2 63.2



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 12.19 min Scan# 1802

Delta R.T. -0.07 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

Instrument :

BNA_F

ClientSampleId :

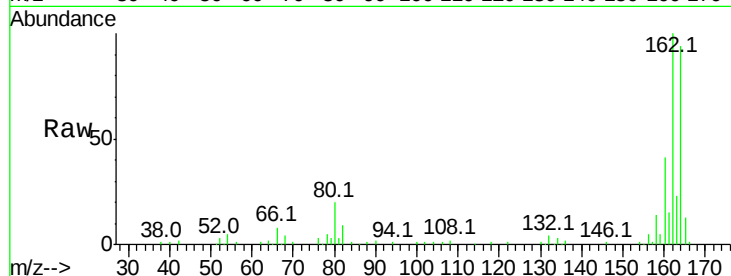
Tot Ion:164 Resp: 105791

Ion Ratio Lower Upper

164 100

162 106.2 82.6 123.8

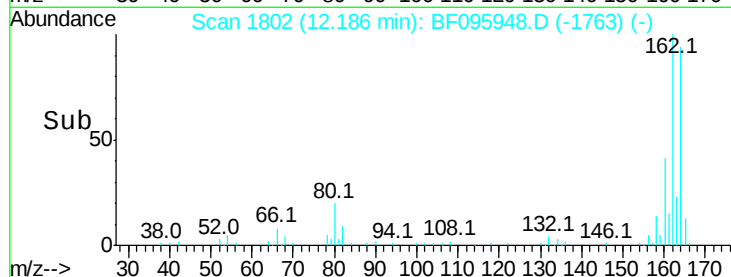
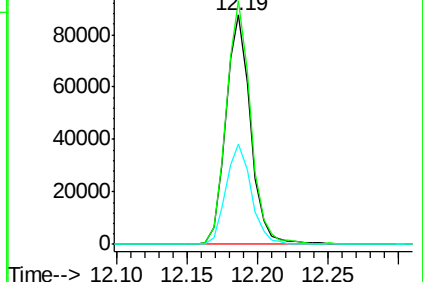
160 43.5 36.2 54.2



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: 16.83 ng

RT: 13.49 min Scan# 2024

Delta R.T. -0.06 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

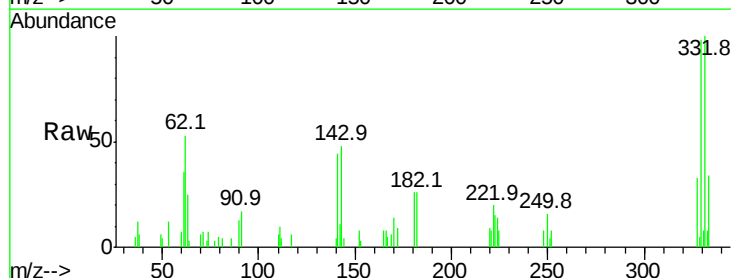
Tgt Ion:330 Resp: 15754

Ion Ratio Lower Upper

330 100

332 99.4 76.6 115.0

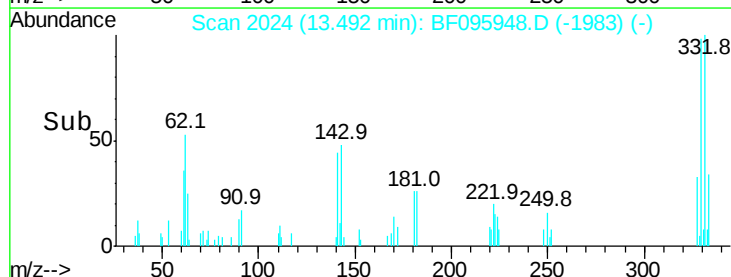
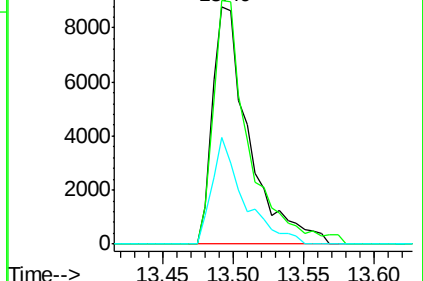
141 39.2 31.4 47.2

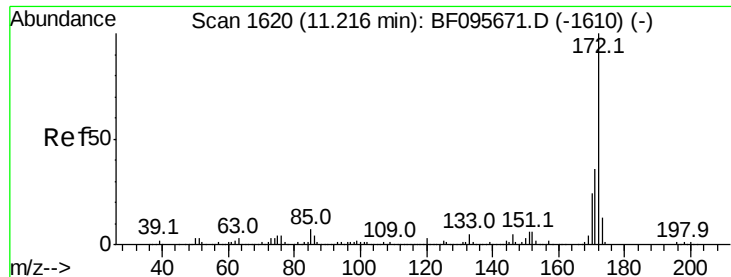


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

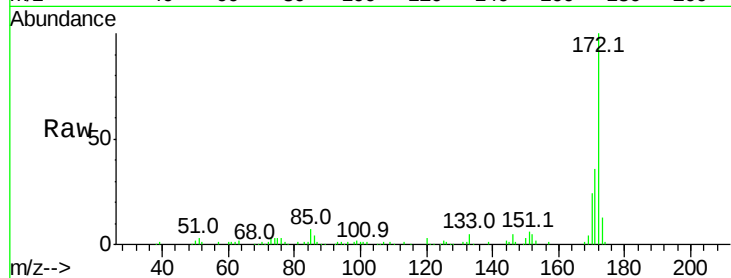




#44
2-Fluorobiphenyl
Concen: 17.53 ng
RT: 11.15 min Scan# 1625
Delta R.T. -0.07 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.3	29.6	44.4
170	23.8	19.8	29.8

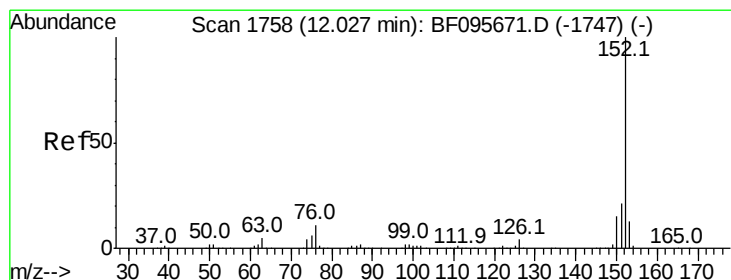
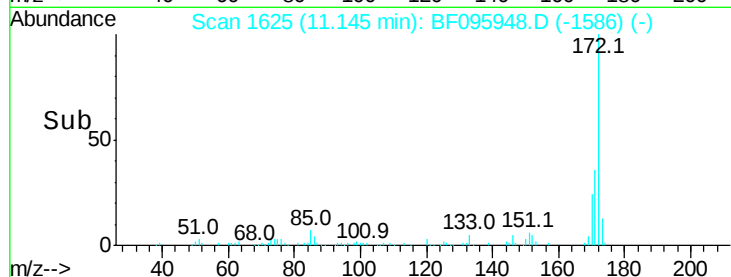
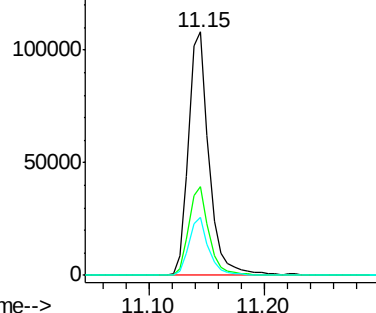


Abundance

Ion 172.00 (171.70 to 172.70): E

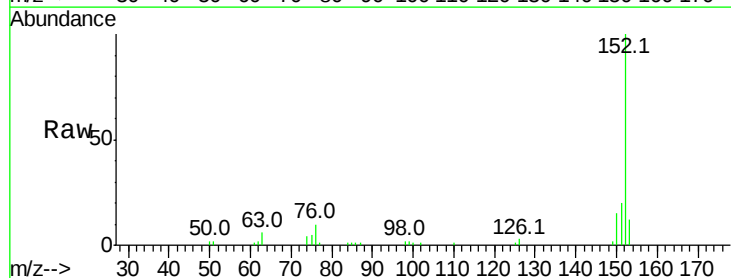
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#48
Acenaphthylene
Concen: 4.66 ng
RT: 11.96 min Scan# 1764
Delta R.T. -0.06 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.8	25.2
153	12.1	10.8	16.2

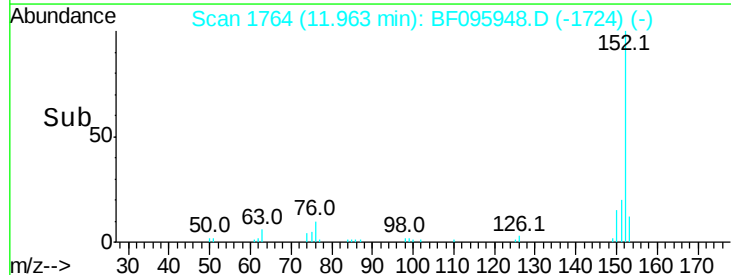
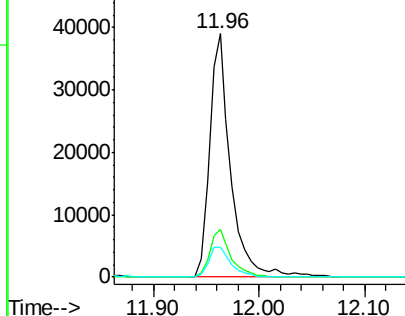


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

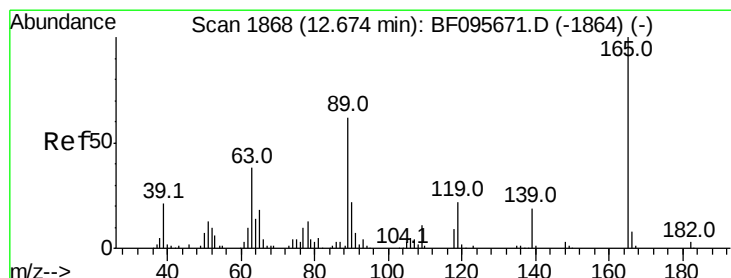
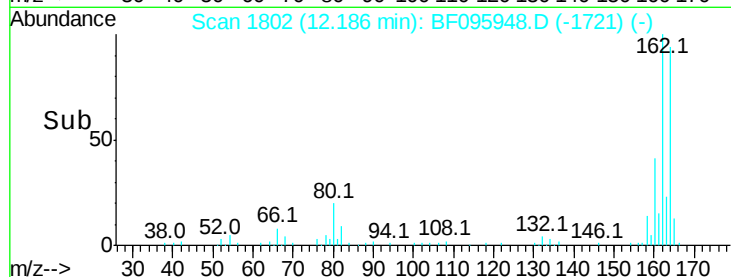
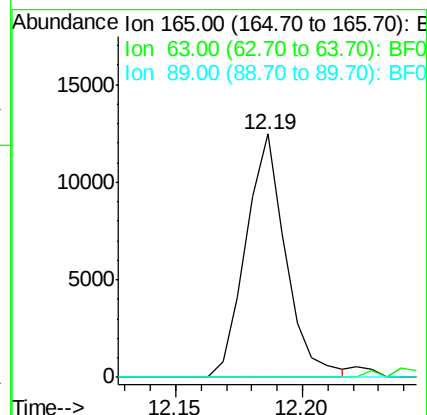
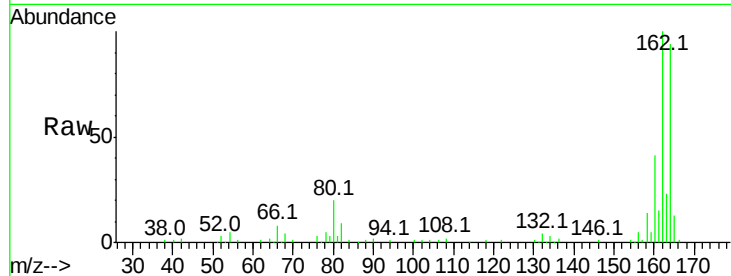




#50
 2,6-Dinitrotoluene
 Concen: 7.82 ng
 RT: 12.19 min Scan# 1802
 Delta R.T. 0.18 min
 Lab File: BF095948.D
 Acq: 15 Jun 2017 5:40

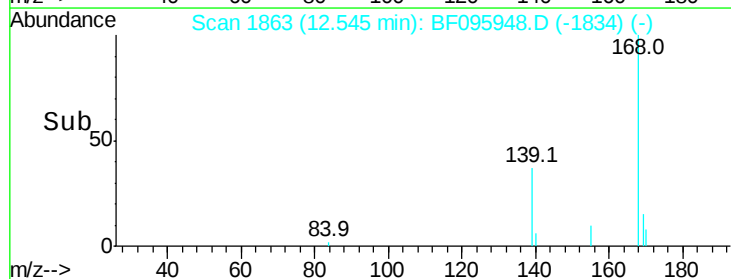
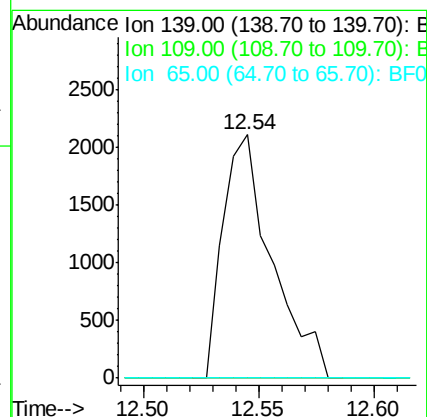
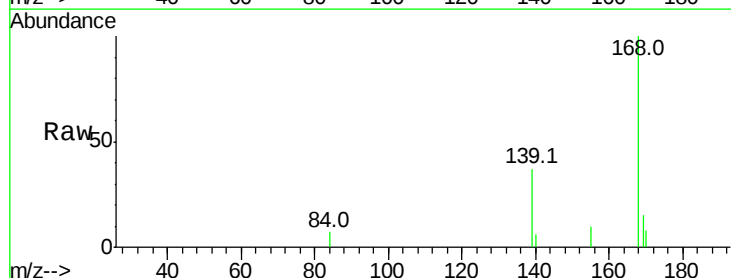
Instrument :
 BNA_F
 ClientSampleId :

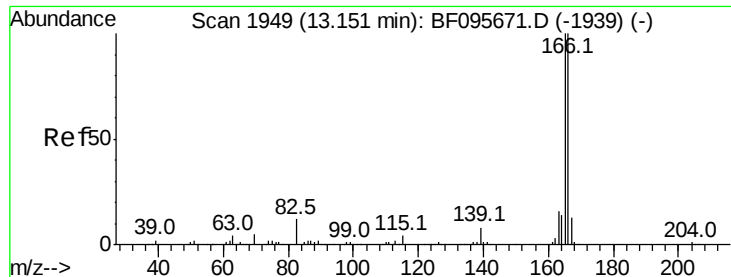
Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	34.3	51.5#
89	0.0	37.1	55.7#



#55
 4-Nitrophenol
 Concen: 7.08 ng
 RT: 12.54 min Scan# 1863
 Delta R.T. -0.13 min
 Lab File: BF095948.D
 Acq: 15 Jun 2017 5:40

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	34.1	74.1#
65	0.0	31.4	71.4#

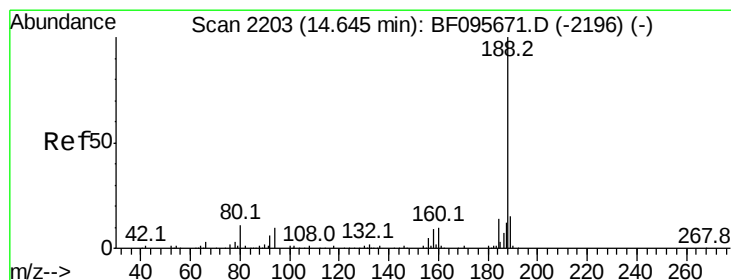
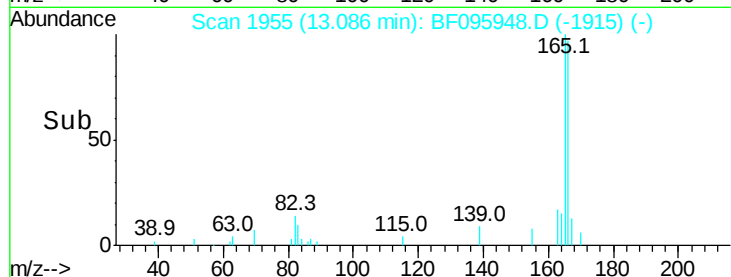
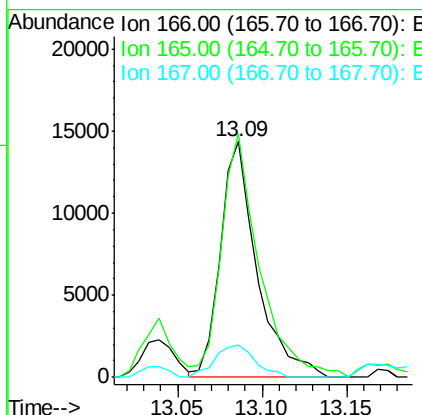
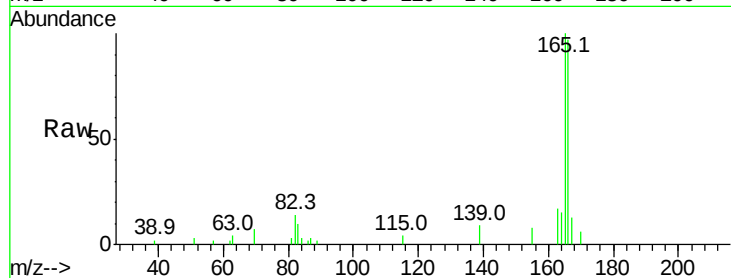




#57
Fluorene
 Concen: 2.63 ng
 RT: 13.09 min Scan# 1955
 Delta R.T. -0.06 min
 Lab File: BF095948.D
 Acq: 15 Jun 2017 5:40

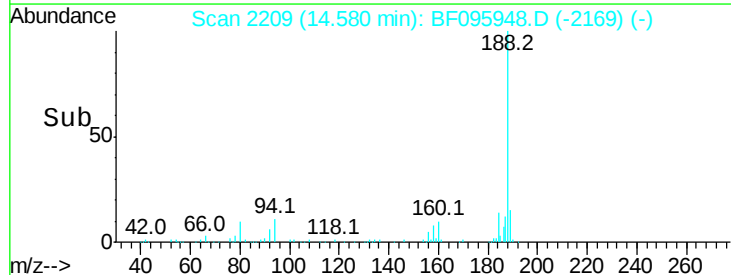
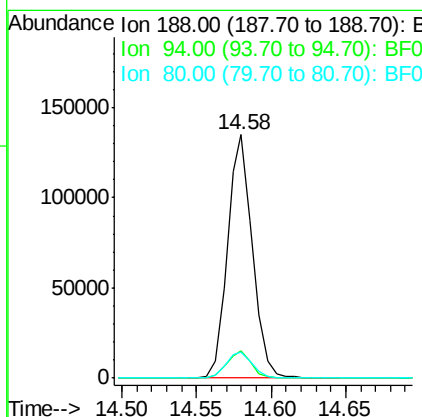
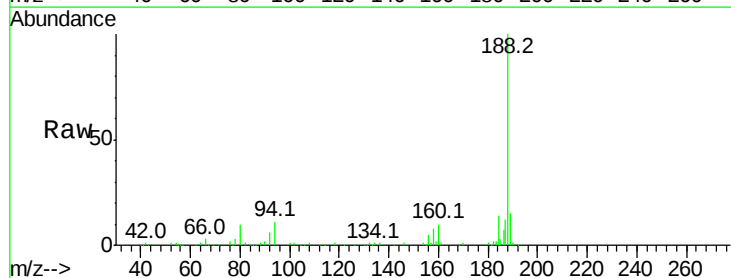
Instrument :
 BNA_F
 ClientSampleId :

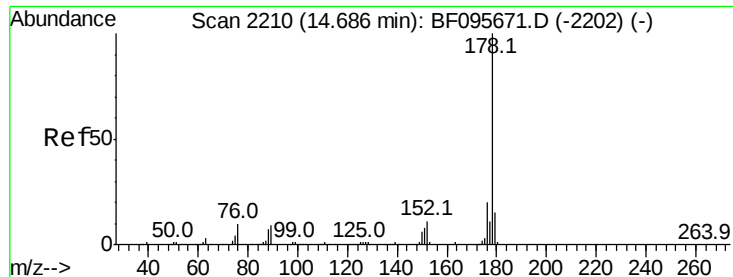
Tot Ion:166 Resp: 21634
 Ion Ratio Lower Upper
 166 100
 165 103.4 78.8 118.2
 167 13.8 10.6 16.0



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 14.58 min Scan# 2209
 Delta R.T. -0.06 min
 Lab File: BF095948.D
 Acq: 15 Jun 2017 5:40

Tgt Ion:188 Resp: 157897
 Ion Ratio Lower Upper
 188 100
 94 11.3 9.4 14.2
 80 10.5 10.2 15.2

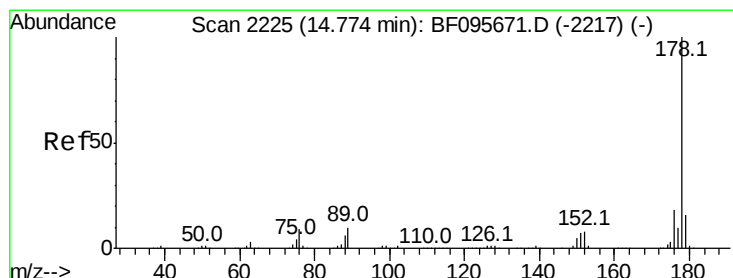
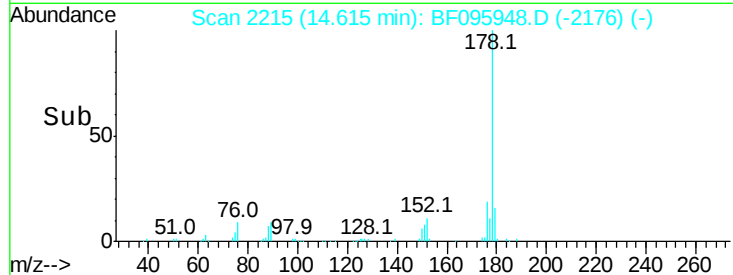
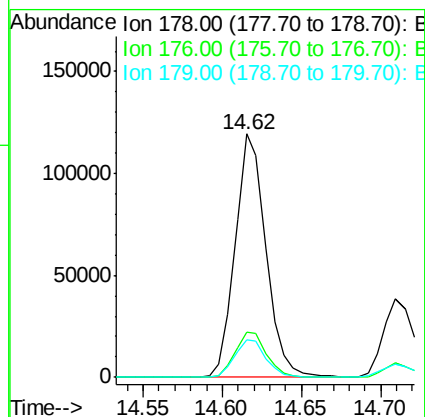
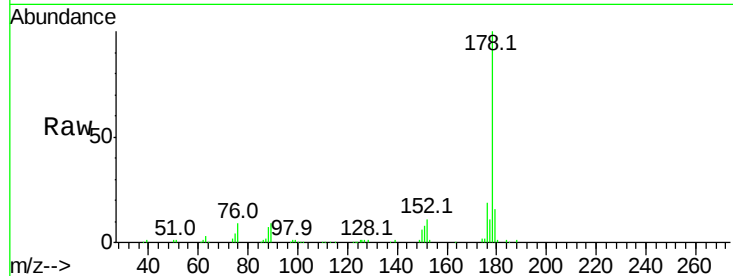




#70
Phenanthrene
Concen: 17.63 ng
RT: 14.62 min Scan# 2215
Delta R.T. -0.07 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

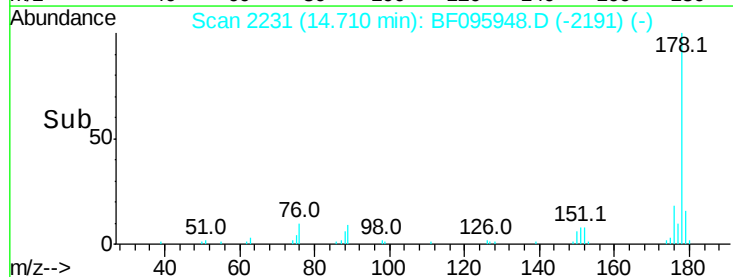
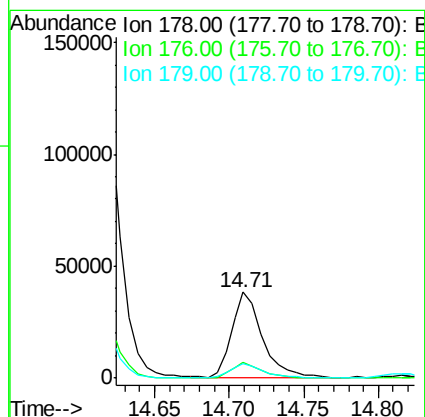
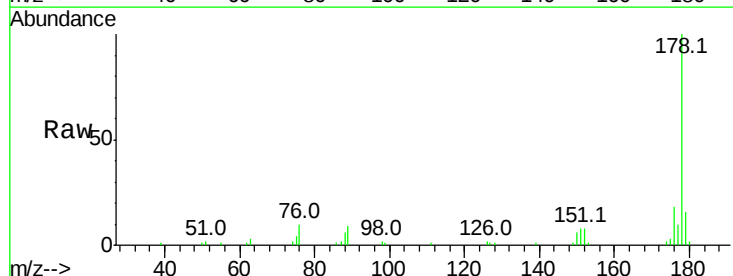
Instrument :
BNA_F
ClientSampleId :

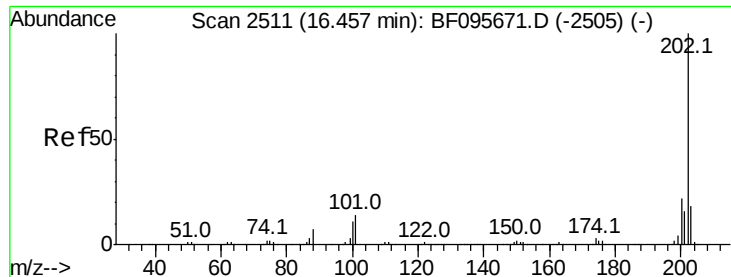
Tot Ion:178 Resp: 160598
Ion Ratio Lower Upper
178 100
176 18.7 16.2 24.4
179 15.6 12.6 19.0



#71
Anthracene
Concen: 5.76 ng
RT: 14.71 min Scan# 2231
Delta R.T. -0.06 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Tgt Ion:178 Resp: 54809
Ion Ratio Lower Upper
178 100
176 18.2 15.8 23.8
179 16.2 12.7 19.1

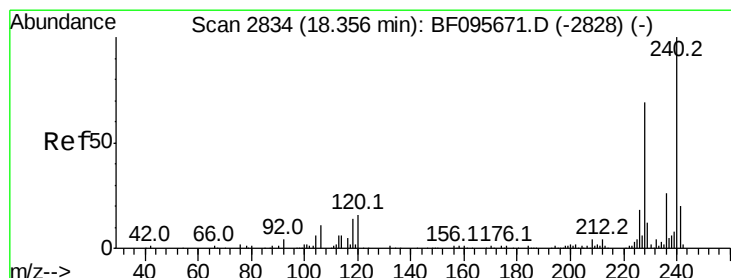
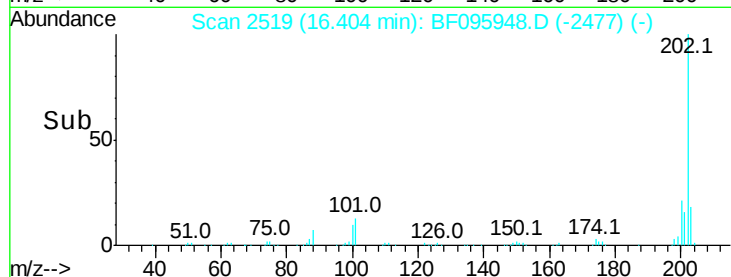
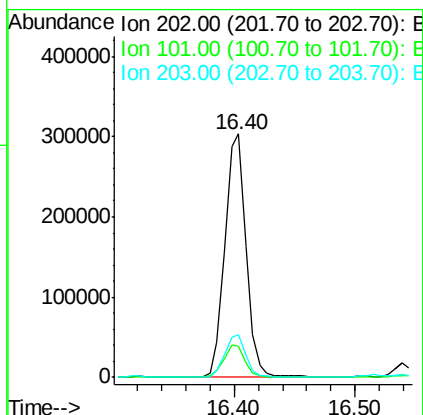
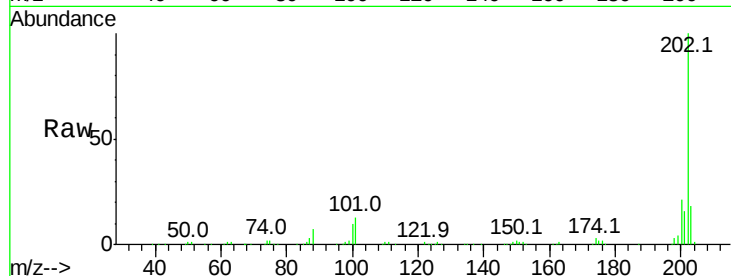




#74
 Fluoranthene
 Concen: 40.99 ng
 RT: 16.40 min Scan# 2519
 Delta R.T. -0.05 min
 Lab File: BF095948.D
 Acq: 15 Jun 2017 5:40

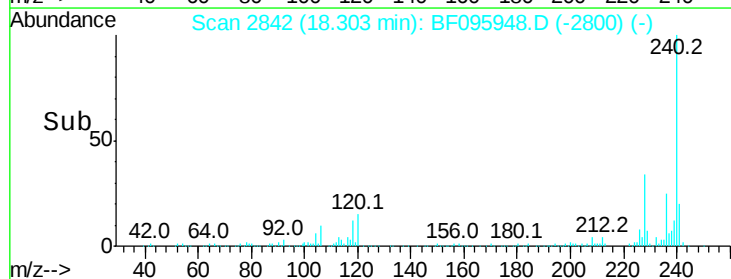
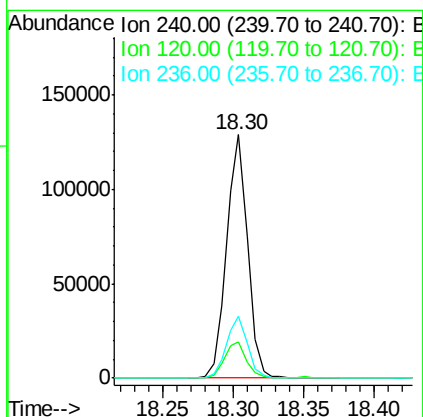
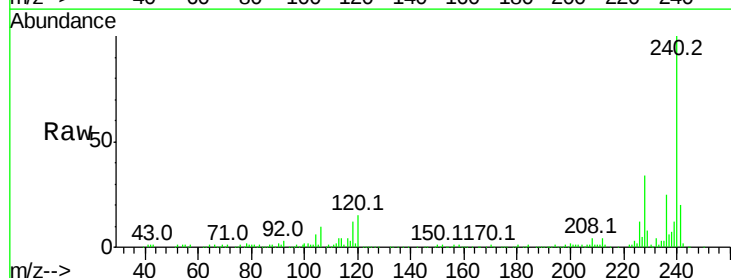
Instrument :
 BNA_F
 ClientSampleId :

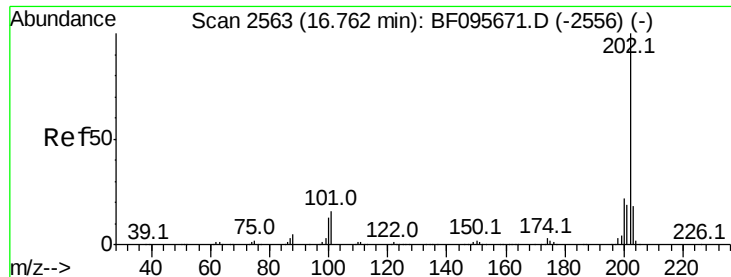
Tot Ion	Ratio	Lower	Upper
202	100		
101	12.6	0.0	33.2
203	17.8	0.0	38.1



#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 18.30 min Scan# 2842
 Delta R.T. -0.05 min
 Lab File: BF095948.D
 Acq: 15 Jun 2017 5:40

Tgt Ion	Ratio	Lower	Upper
240	100		
120	14.7	5.8	8.8#
236	25.3	20.5	30.7

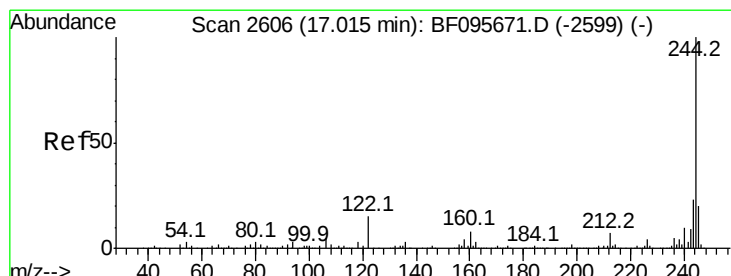
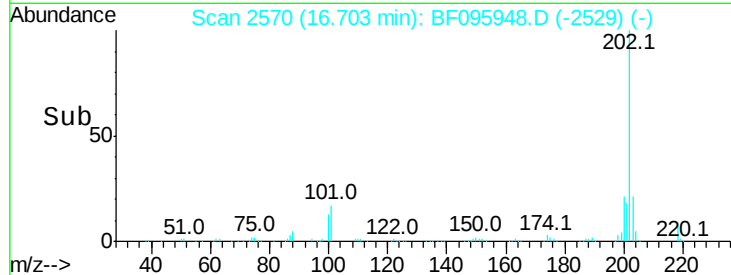
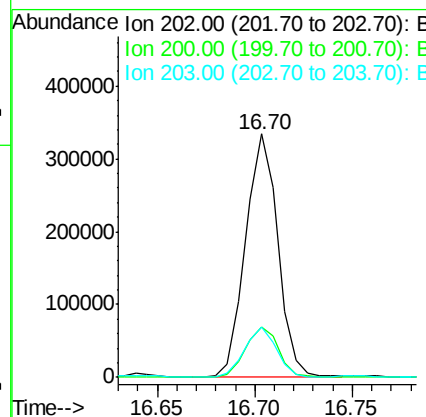
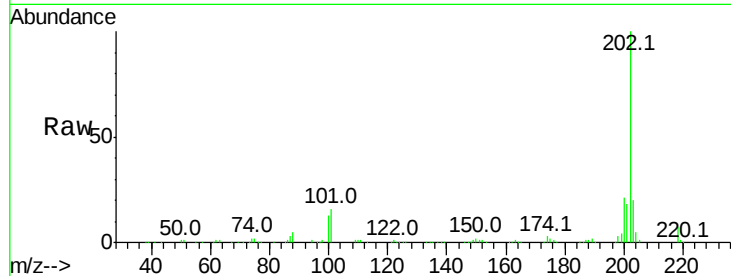




#77
Pvrene
Concen: 38.88 ng
RT: 16.70 min Scan# 2570
Delta R.T. -0.06 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

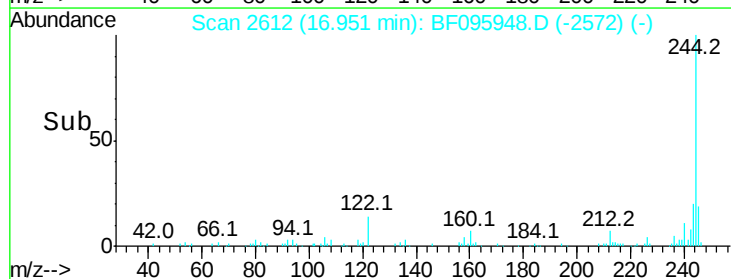
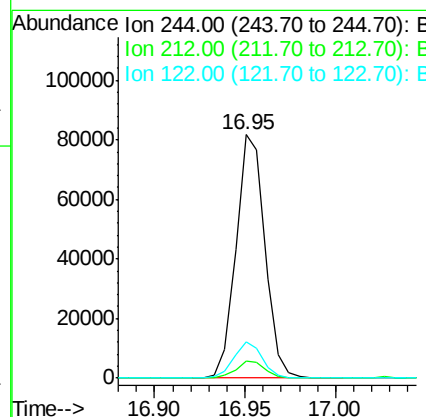
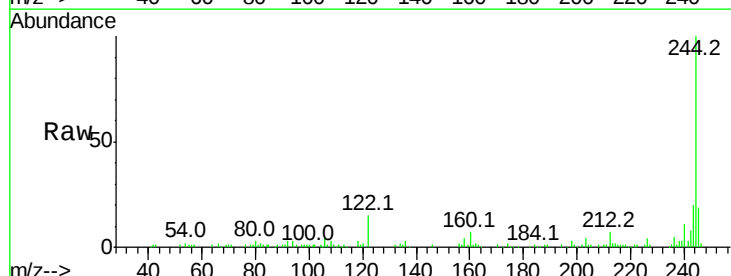
Instrument :
BNA_F
ClientSampleId :

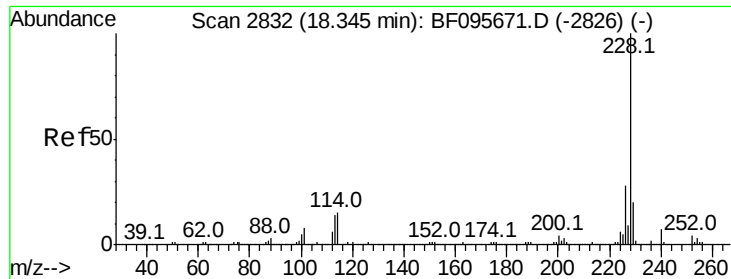
Tot Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.6	26.4
203	20.5	14.4	21.6



#78
Terphenyl-d14
Concen: 16.86 ng
RT: 16.95 min Scan# 2612
Delta R.T. -0.06 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	14.9	10.3	15.5

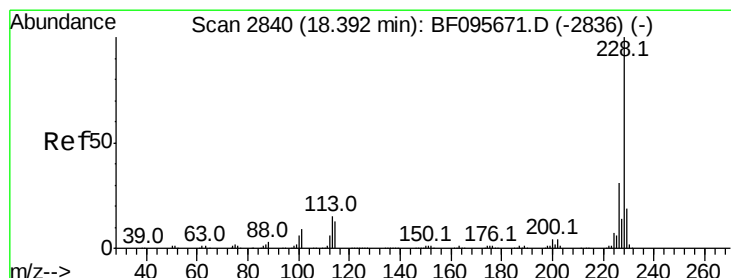
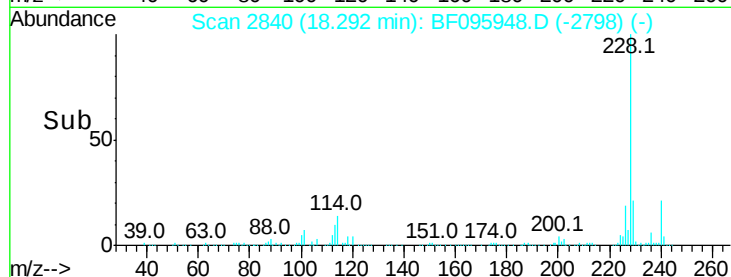
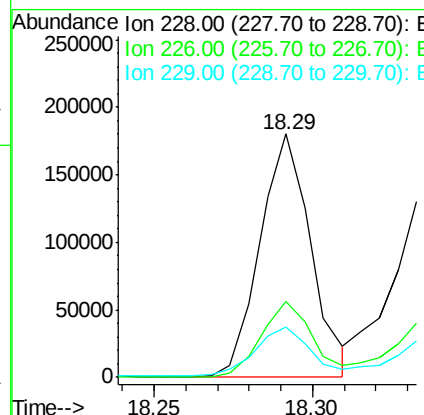
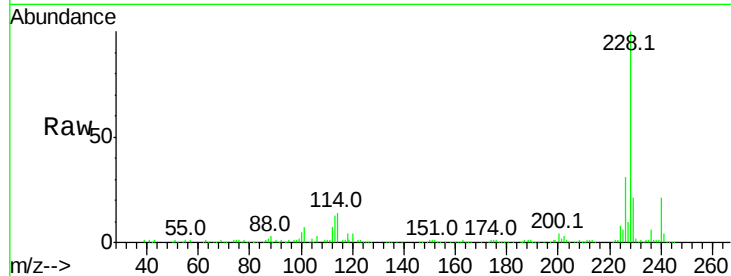




#80
Benzo(a)anthracene
Concen: 25.92 ng
RT: 18.29 min Scan# 2840
Delta R.T. -0.05 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

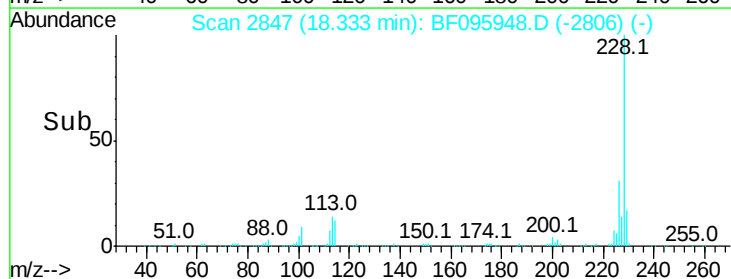
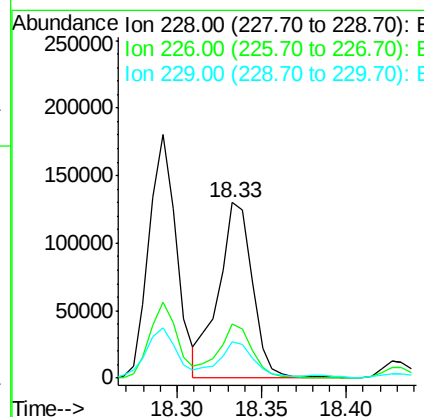
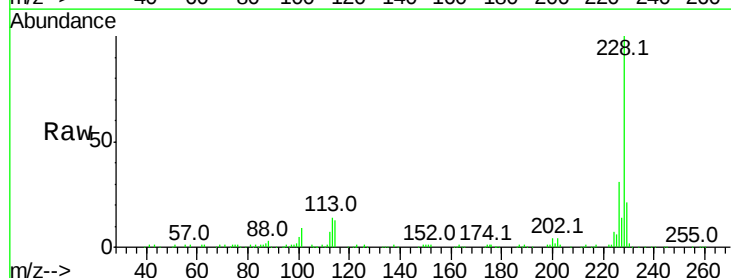
Instrument :
BNA_F
ClientSampleId :

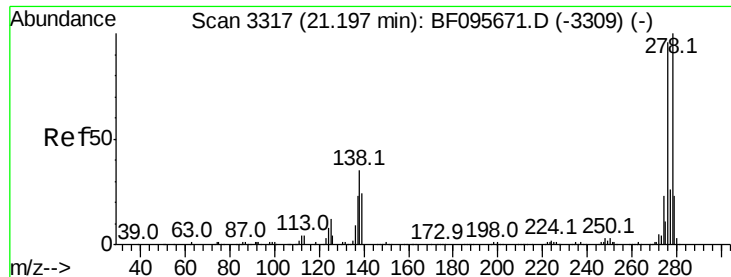
Tot Ion	Ratio	Lower	Upper
228	100		
226	31.1	22.6	33.8
229	20.9	16.3	24.5



#82
Chrysene
Concen: 23.52 ng
RT: 18.33 min Scan# 2847
Delta R.T. -0.06 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.1	24.9	37.3
229	20.6	15.8	23.6

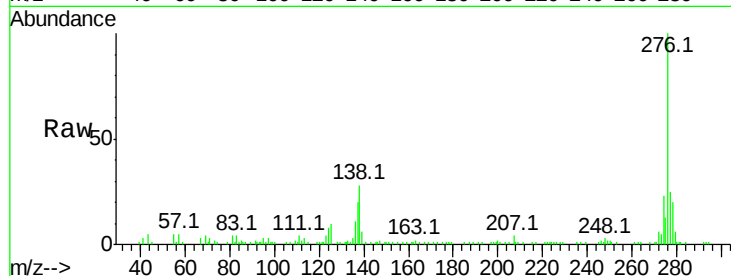




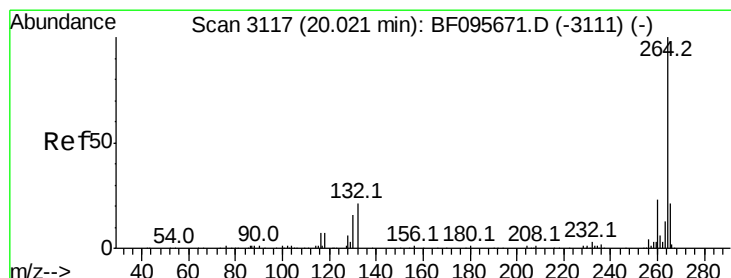
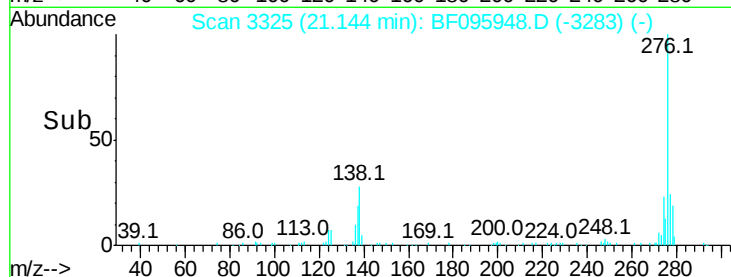
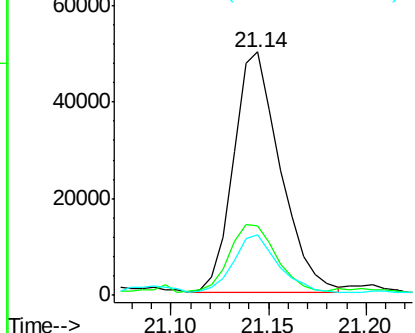
#85
Indeno(1,2,3-cd)pyrene
Concen: 12.43 ng
RT: 21.14 min Scan# 3325
Delta R.T. -0.05 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.8	27.8	41.6
277	23.4	20.2	30.4

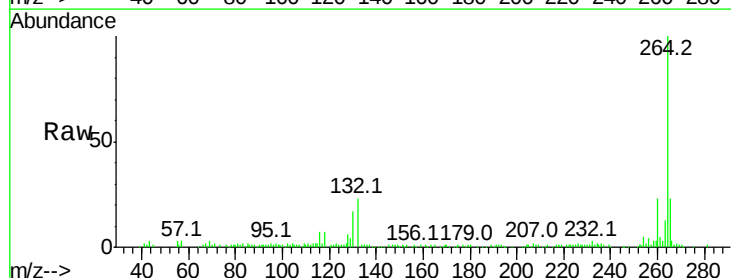


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

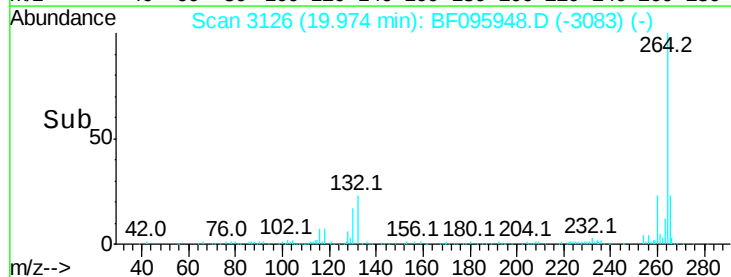
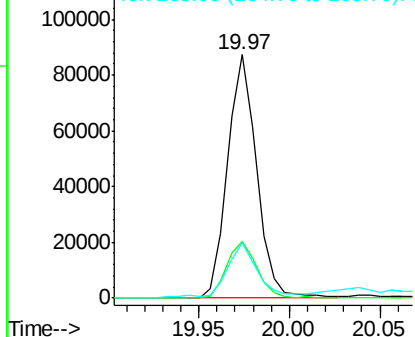


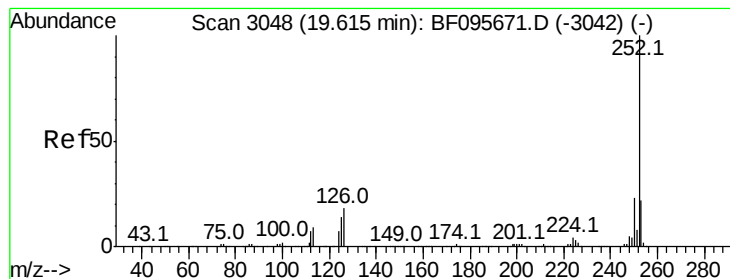
#86
Perylene-d12
Concen: 20.00 ng
RT: 19.97 min Scan# 3126
Delta R.T. -0.05 min
Lab File: BF095948.D
Acq: 15 Jun 2017 5:40

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.5	29.3
265	22.7	17.2	25.8



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: 45.32 ng

RT: 19.57 min Scan# 3057

Delta R.T. -0.05 min

Lab File: BF095948.D

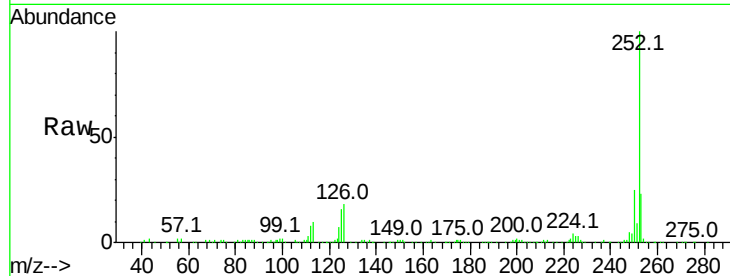
Acq: 15 Jun 2017 5:40

Instrument :

BNA_F

ClientSampleId :

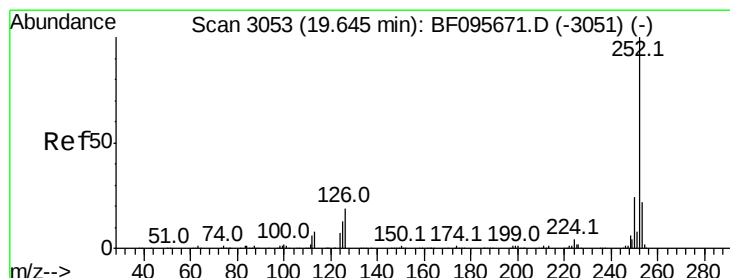
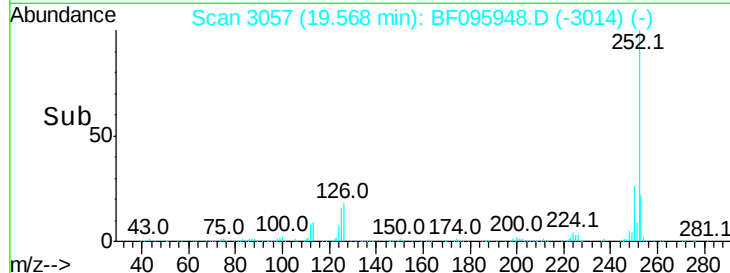
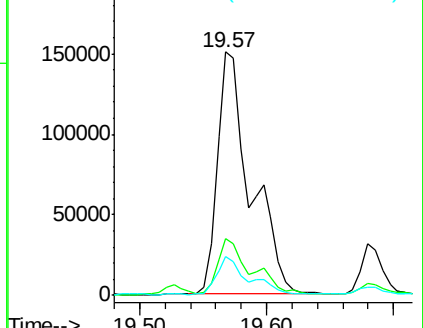
Tot Ion:	252	Resp:	277347
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.1	27.1
125	15.9	9.8	14.8#



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: 47.42 ng

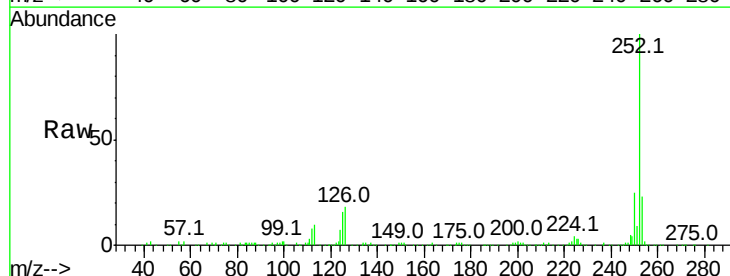
RT: 19.57 min Scan# 3057

Delta R.T. -0.08 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

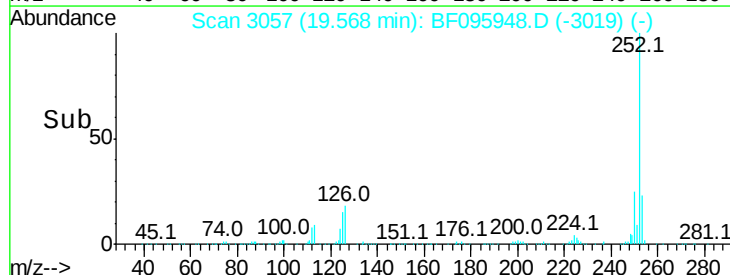
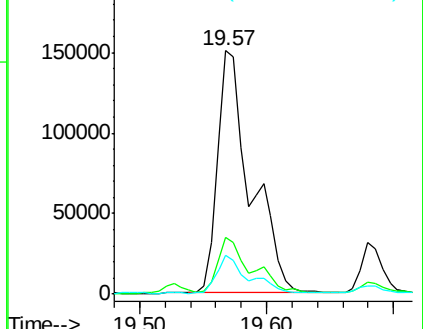
Tgt Ion:	252	Resp:	277347
Ion Ratio	Lower	Upper	
252	100		
253	23.3	18.4	27.6
125	15.9	13.1	19.7

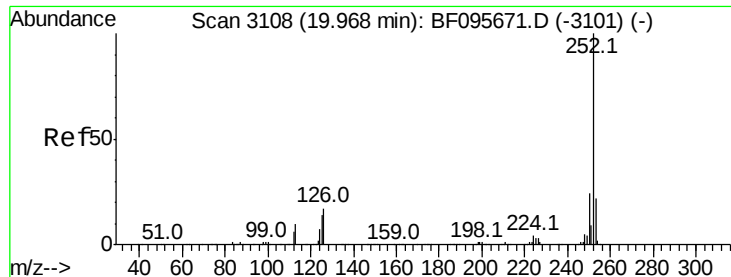


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 25.53 ng

RT: 19.92 min Scan# 3117

Delta R.T. -0.05 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

Instrument :

BNA_F

ClientSampleId :

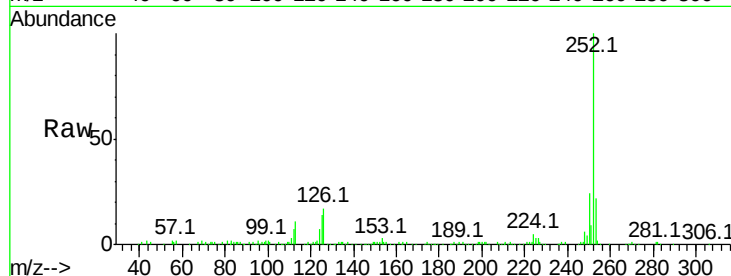
Tot Ion:252 Resp: 143588

Ion Ratio Lower Upper

252 100

253 21.8 17.5 26.3

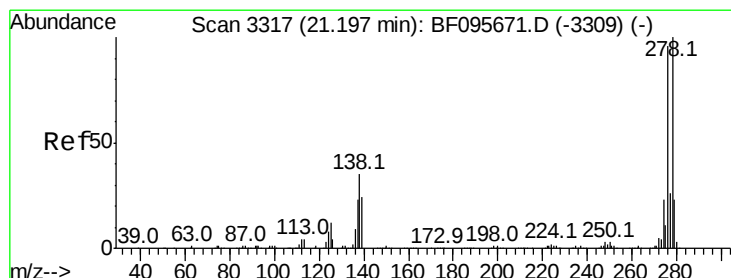
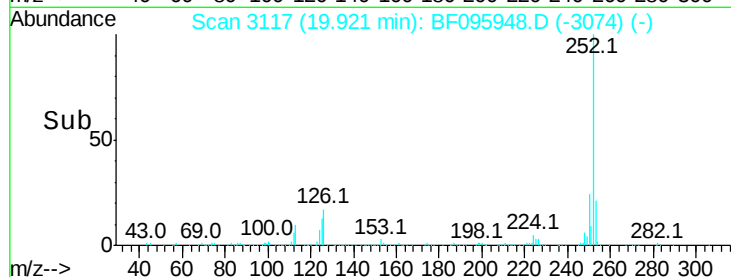
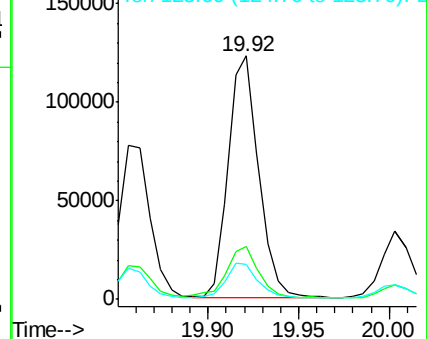
125 14.3 11.0 16.4



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 3.41 ng

RT: 20.99 min Scan# 3299

Delta R.T. -0.21 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

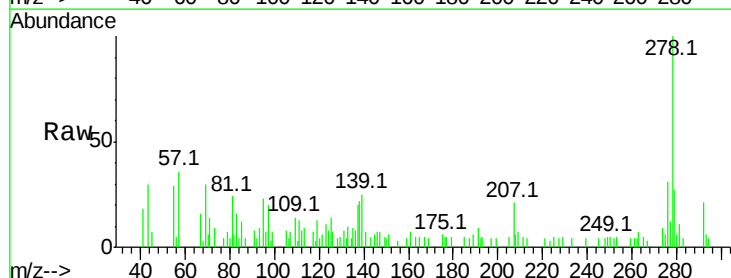
Tgt Ion:278 Resp: 16289

Ion Ratio Lower Upper

278 100

139 24.6 16.6 24.8

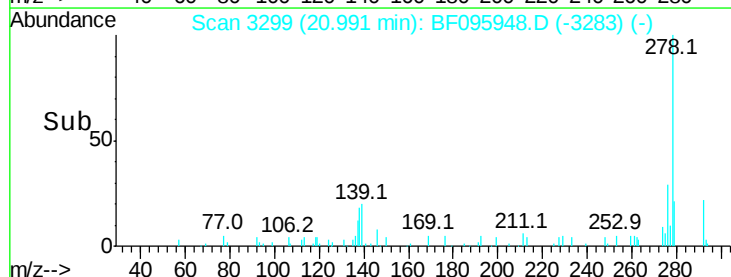
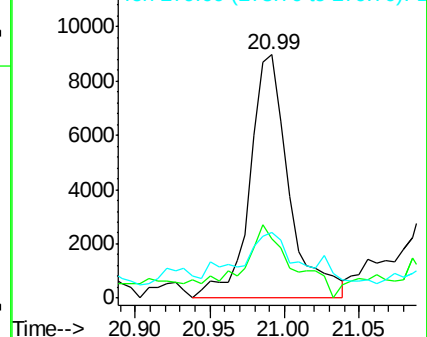
279 26.9 19.3 28.9

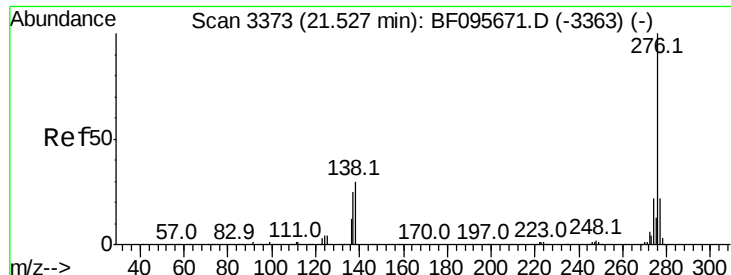


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 16.50 ng

RT: 21.47 min Scan# 3381

Delta R.T. -0.05 min

Lab File: BF095948.D

Acq: 15 Jun 2017 5:40

Instrument :

BNA_F

ClientSampleId :

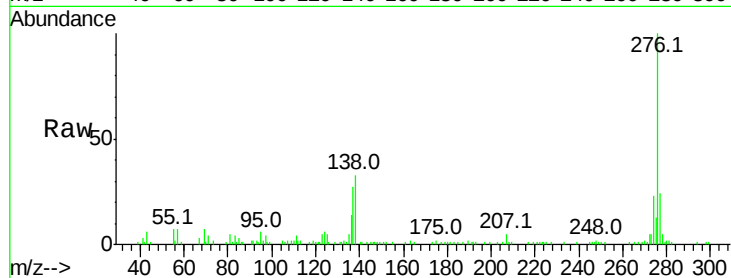
Tot Ion: 276 Resp: 80247

Ion Ratio Lower Upper

276 100

277 24.1 18.6 28.0

138 32.9 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

