

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101816\
 Data File : BF090634.D
 Acq On : 18 Oct 2016 18:08
 Operator : UM/SJ
 Sample : H5289-03
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-3-3

Quant Time: Oct 19 01:08:27 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF101316.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 17 19:19:58 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.90	152	210845	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	912903	20.00	ng	-0.01
38) Acenaphthene-d10	9.95	164	422813	20.00	ng	-0.01
63) Phenanthrene-d10	11.43	188	582296	20.00	ng	-0.01
75) Chrysene-d12	14.08	240	520674	20.00	ng	-0.01
86) Perylene-d12	15.54	264	487943	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.51	112	1552239	134.96	ng	0.00
7) Phenol-d6	6.54	99	2015218	117.92	ng	0.00
23) Nitrobenzene-d5	7.47	82	1456455	88.63	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	376239	99.81	ng	-0.01
44) 2-Fluorobiphenyl	9.26	172	1981024	77.20	ng	-0.01
78) Terphenyl-d14	13.02	244	1599903	71.55	ng	-0.01

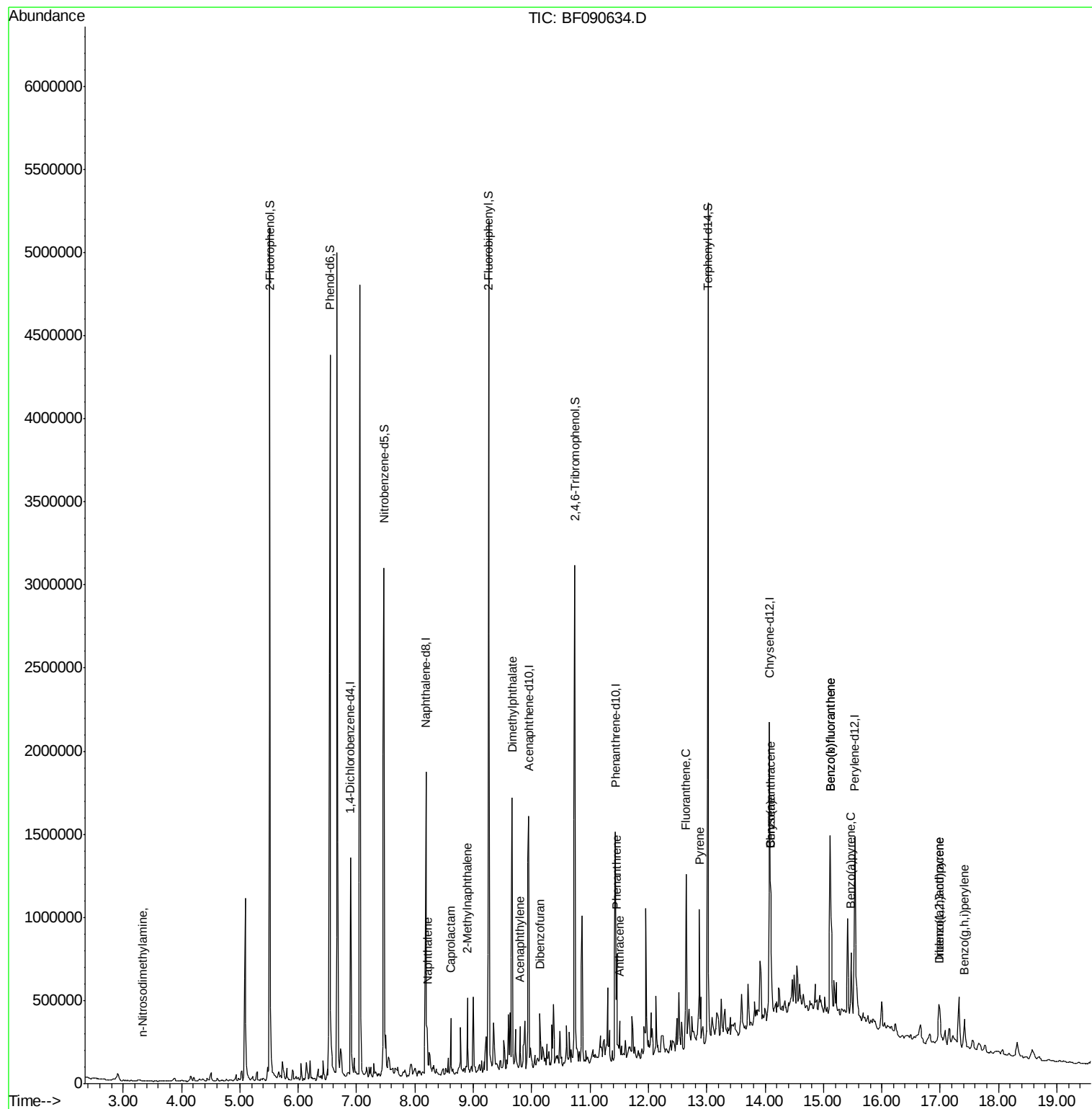
Target Compounds						Qvalue
4) n-Nitrosodimethylamine	3.34	42	712	7.29	ng	# 1
31) Naphthalene	8.21	128	146955	3.16	ng	99
35) Caprolactam	8.61	113	6922	2.23	ng	# 67
37) 2-Methylnaphthalene	8.90	142	122531	4.49	ng	98
48) Acenaphthylene	9.80	152	78006	2.04	ng	# 97
49) Dimethylphthalate	9.66	163	620526	22.62	ng	# 98
54) Dibenzofuran	10.14	168	87320	2.61	ng	# 82
70) Phenanthrene	11.46	178	260801	8.39	ng	98
71) Anthracene	11.50	178	110946	3.32	ng	99
74) Fluoranthene	12.65	202	379560	12.14	ng	96
77) Pyrene	12.87	202	316655	9.18	ng	98
80) Benzo(a)anthracene	14.10	228	594337	20.05	ng	94
82) Chrysene	14.10	228	594337	20.81	ng	97
85) Indeno(1,2,3-cd)pyrene	16.98	276	171770	10.40	ng	96
87) Benzo(b)fluoranthene	15.12	252	715588	22.41	ng	99
88) Benzo(k)fluoranthene	15.12	252	715588	20.83	ng	# 97
89) Benzo(a)pyrene	15.47	252	208983	7.15	ng	# 95
90) Dibenzo(a,h)anthracene	16.99	278	50317	2.26	ng	# 89
91) Benzo(g,h,i)perylene	17.41	276	146651	6.90	ng	98

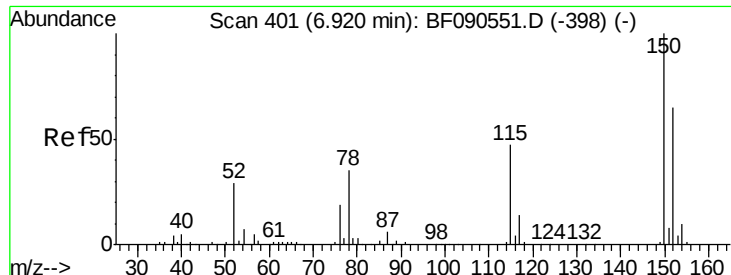
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.90 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

Instrument :

BNA_F

ClientSampleId :

SP-3-3

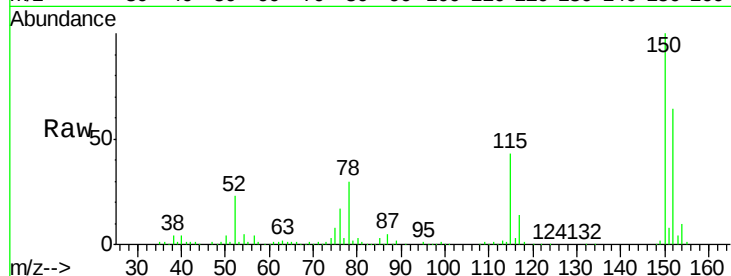
Tgt Ion:152 Resp: 210845

Ion Ratio Lower Upper

152 100

150 157.0 127.2 190.8

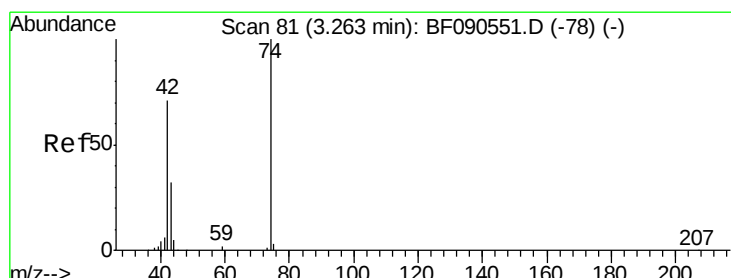
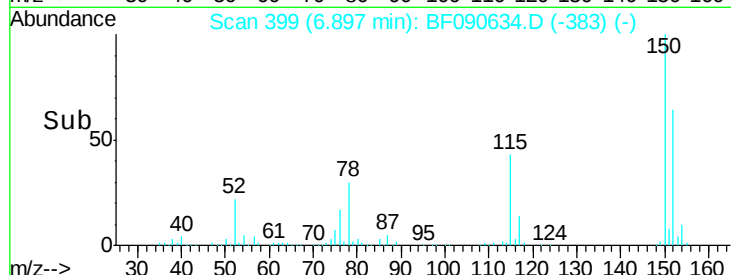
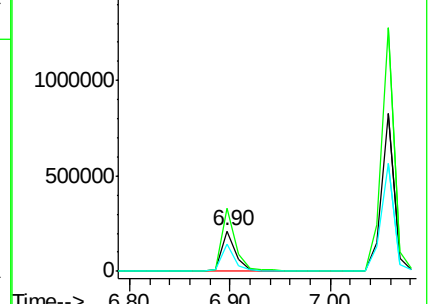
115 67.9 58.6 88.0



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



#4

n-Nitrosodimethylamine

Concen: 7.29 ng

RT: 3.34 min Scan# 88

Delta R.T. 0.11 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

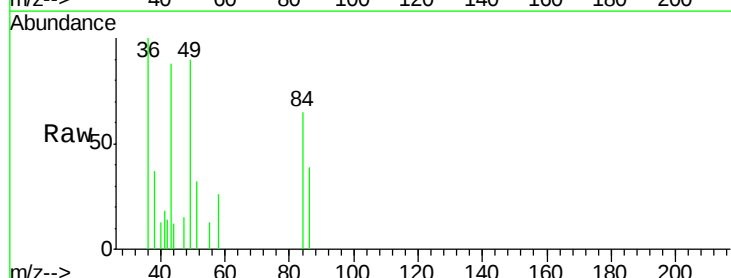
Tgt Ion: 42 Resp: 712

Ion Ratio Lower Upper

42 100

74 0.0 113.3 169.9#

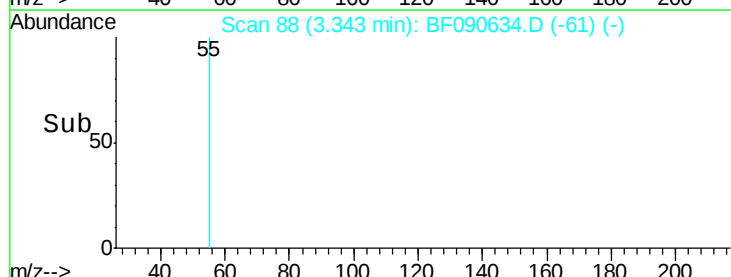
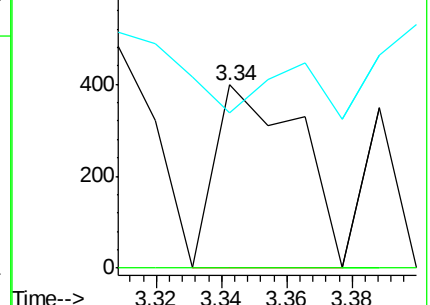
44 84.7 6.0 9.0#

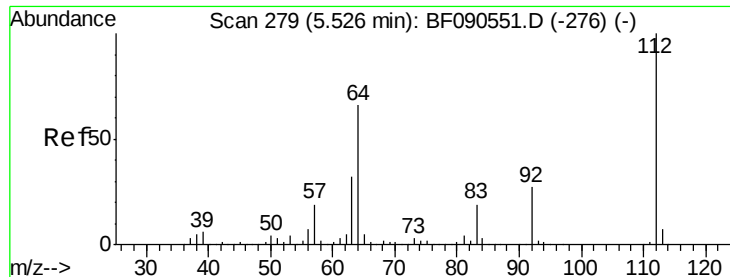


Abundance Ion 42.00 (41.70 to 42.70): BF0

Ion 74.00 (73.70 to 74.70): BF0

Ion 44.00 (43.70 to 44.70): BF0

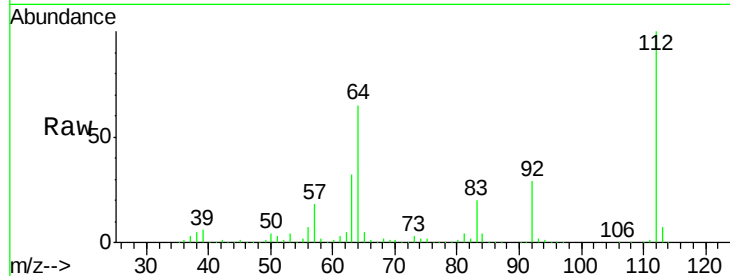




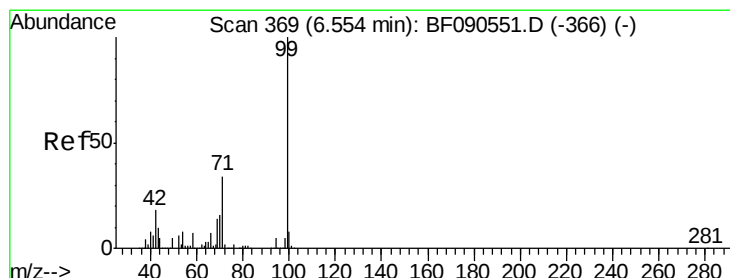
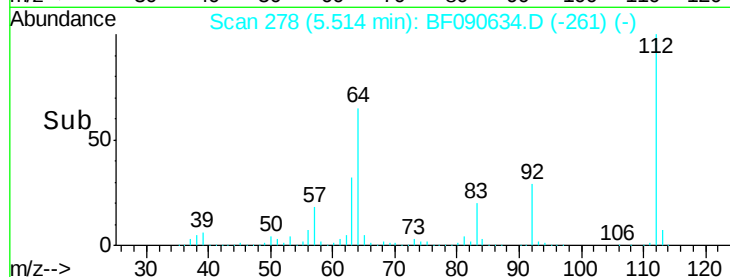
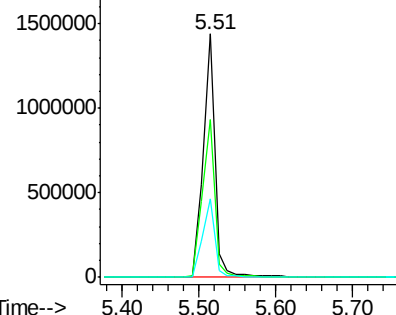
#5
 2-Fluorophenol
 Concen: 134.96 ng
 RT: 5.51 min Scan# 278
 Delta R.T. -0.00 min
 Lab File: BF090634.D
 Acq: 18 Oct 2016 18:08

Instrument :
 BNA_F
 ClientSampleId :
 SP-3-3

Tgt Ion: 112 Resp: 1552239
 Ion Ratio Lower Upper
 112 100
 64 65.0 52.6 78.8
 63 32.0 26.0 39.0

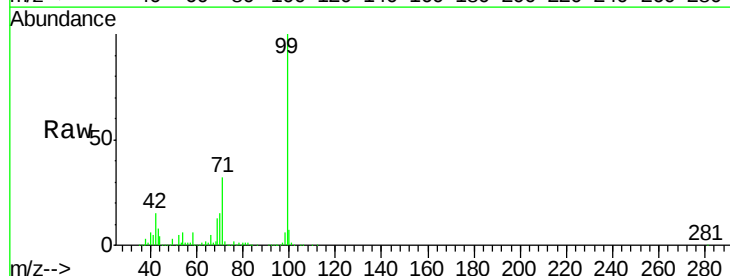


Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0

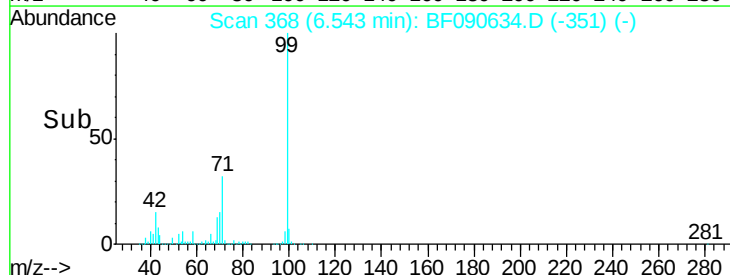
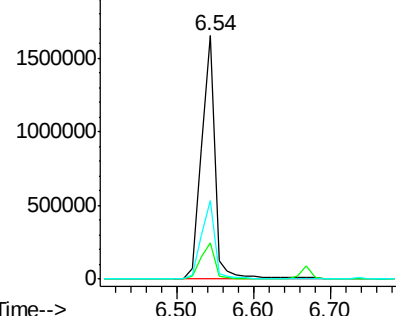


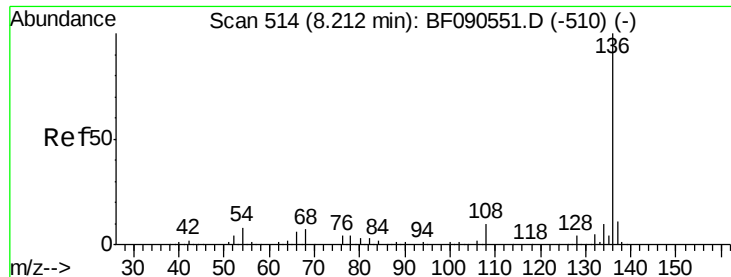
#7
 Phenol-d6
 Concen: 117.92 ng
 RT: 6.54 min Scan# 368
 Delta R.T. -0.00 min
 Lab File: BF090634.D
 Acq: 18 Oct 2016 18:08

Tgt Ion: 99 Resp: 2015218
 Ion Ratio Lower Upper
 99 100
 42 14.9 14.7 22.1
 71 32.4 27.6 41.4



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: 8.19 min Scan# 512

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

Instrument :

BNA_F

ClientSampleId :

SP-3-3

Tgt Ion:136 Resp: 912903

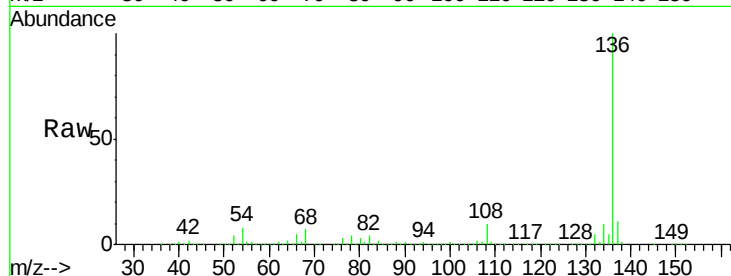
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 7.6 6.8 10.2

68 6.8 6.0 9.0

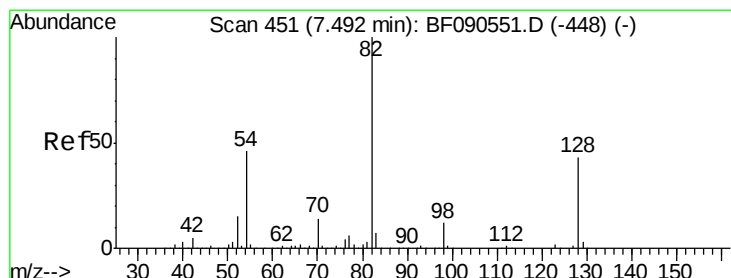
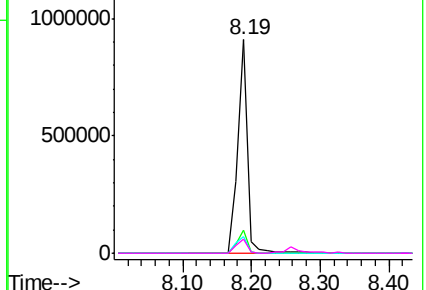
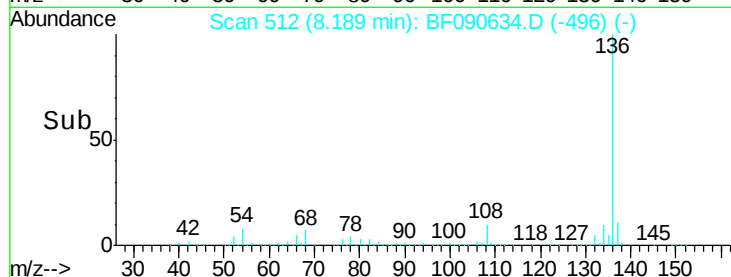


Abundance Ion 136.00 (135.70 to 136.70): E

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: 88.63 ng

RT: 7.47 min Scan# 449

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

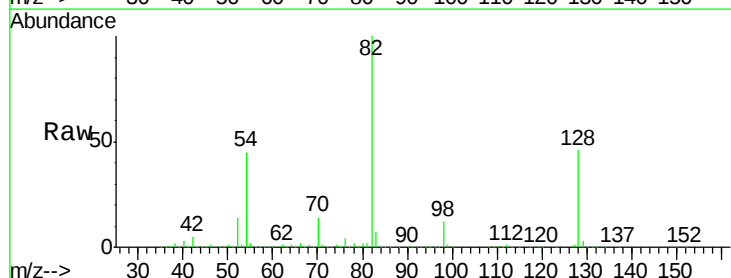
Tgt Ion: 82 Resp: 1456455

Ion Ratio Lower Upper

82 100

128 46.3 34.3 51.5

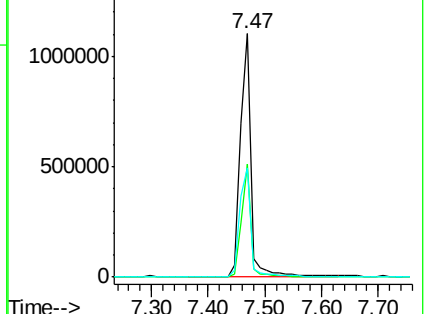
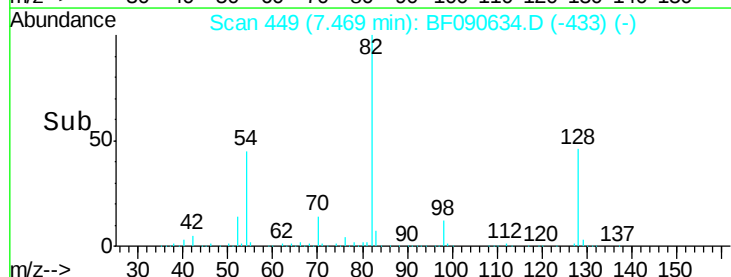
54 44.6 37.0 55.6

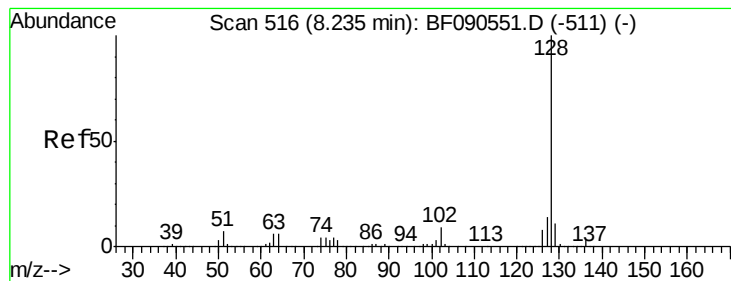


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 3.16 ng

RT: 8.21 min Scan# 514

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

Instrument :

BNA_F

ClientSampleId :

SP-3-3

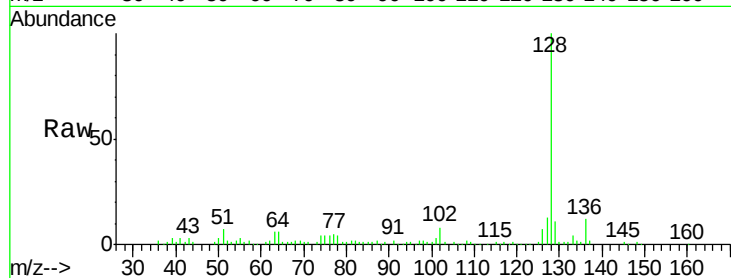
Tgt Ion:128 Resp: 146955

Ion Ratio Lower Upper

128 100

129 11.2 9.0 13.6

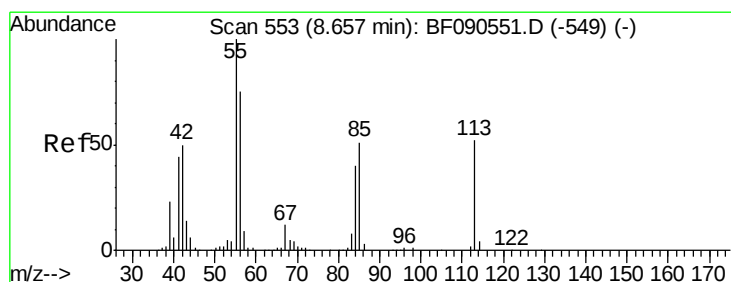
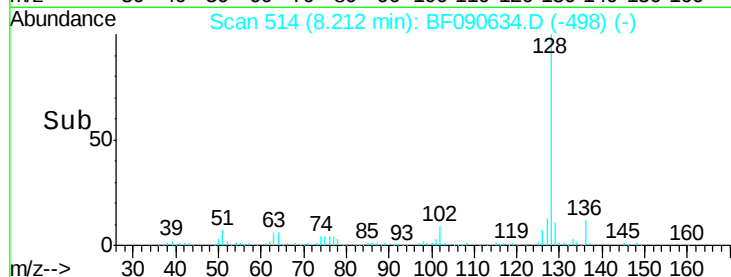
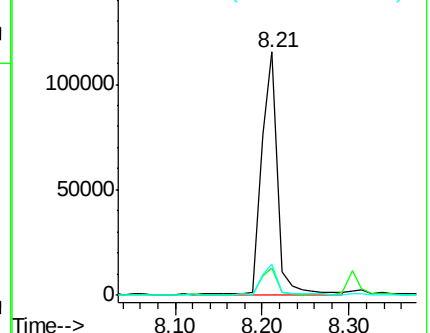
127 12.9 10.8 16.2



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#35

Caprolactam

Concen: 2.23 ng

RT: 8.61 min Scan# 549

Delta R.T. -0.05 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

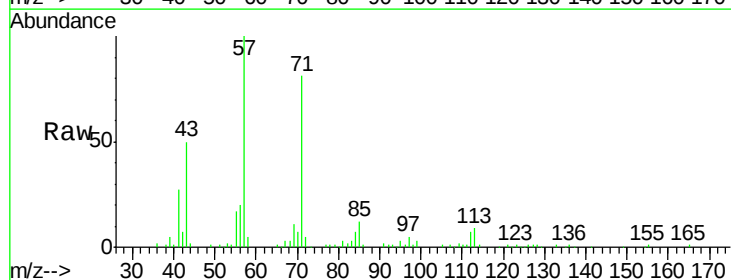
Tgt Ion:113 Resp: 6922

Ion Ratio Lower Upper

113 100

55 197.5 170.8 210.8

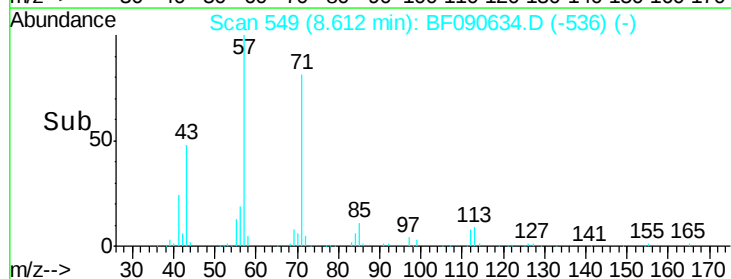
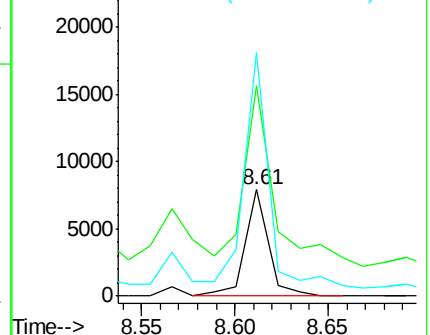
56 229.3 122.4 162.4#

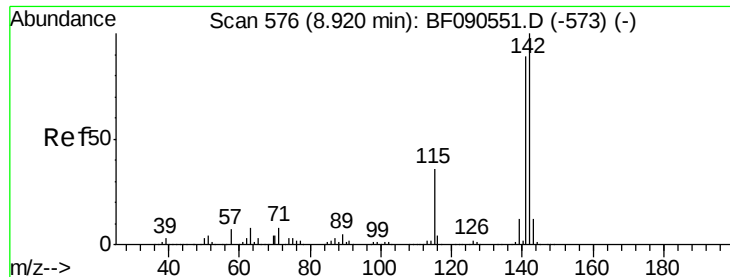


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF0

Ion 56.00 (55.70 to 56.70): BF0

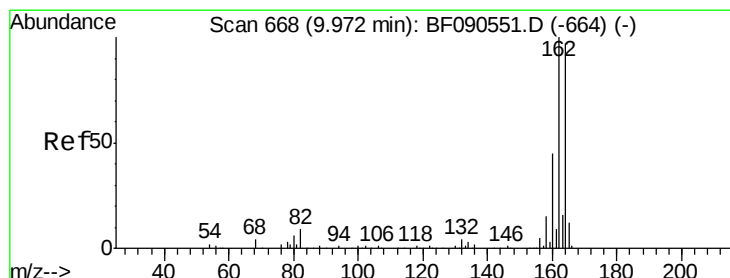
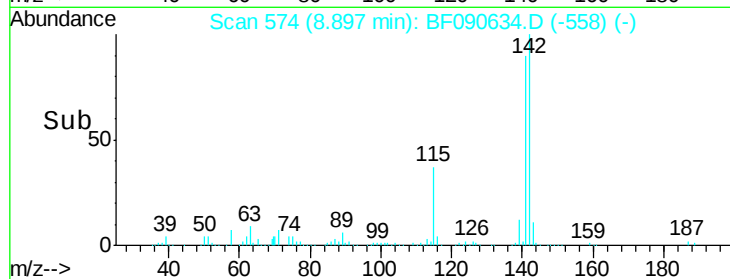
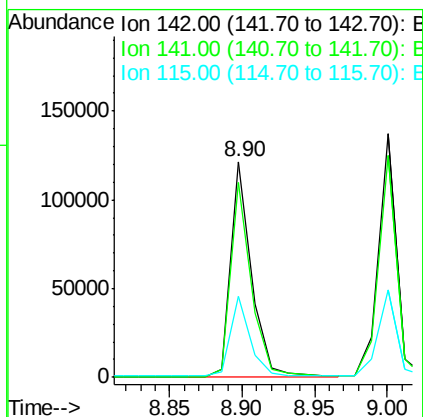
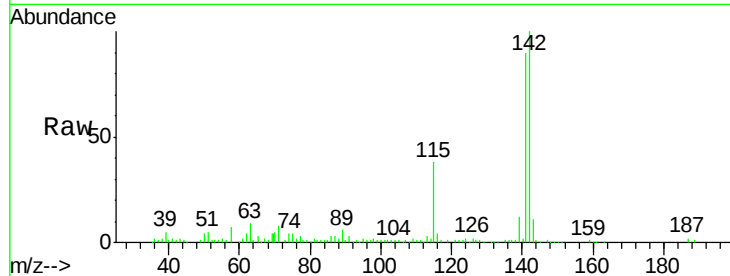




#37
2-Methylnaphthalene
Concen: 4.49 ng
RT: 8.90 min Scan# 574
Delta R.T. -0.01 min
Lab File: BF090634.D
Acq: 18 Oct 2016 18:08

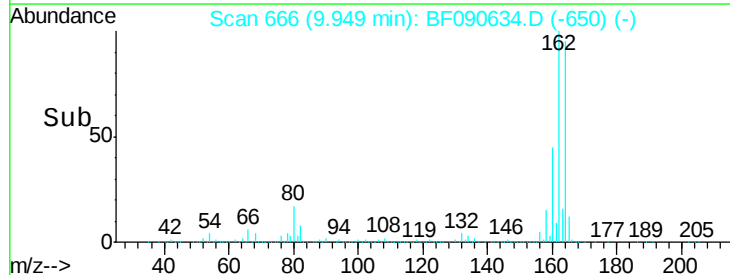
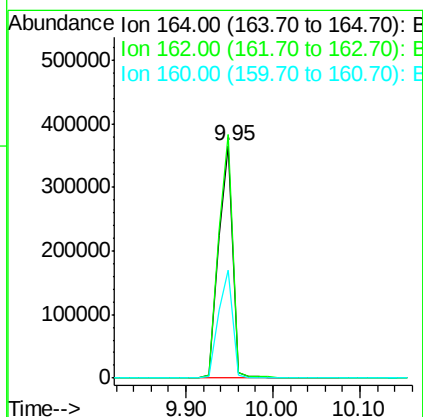
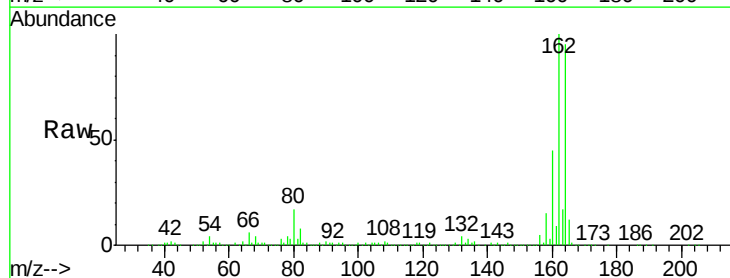
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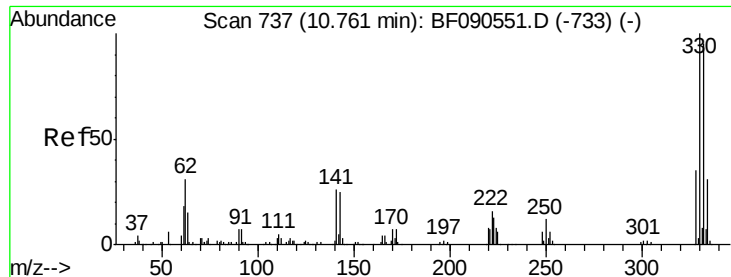
Tgt Ion:142 Resp: 122531
Ion Ratio Lower Upper
142 100
141 90.2 71.3 106.9
115 37.8 28.8 43.2



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.95 min Scan# 666
Delta R.T. -0.01 min
Lab File: BF090634.D
Acq: 18 Oct 2016 18:08

Tgt Ion:164 Resp: 422813
Ion Ratio Lower Upper
164 100
162 104.8 82.2 123.4
160 46.7 36.6 55.0

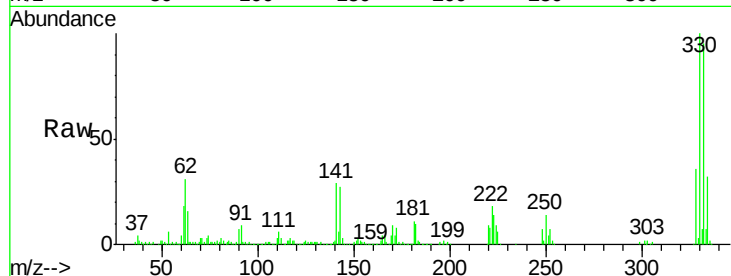




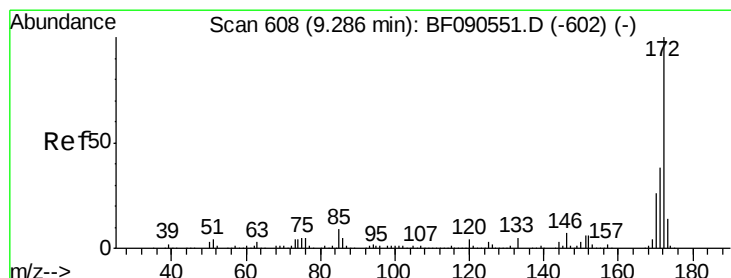
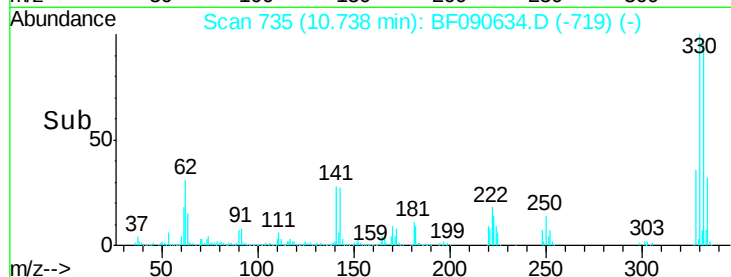
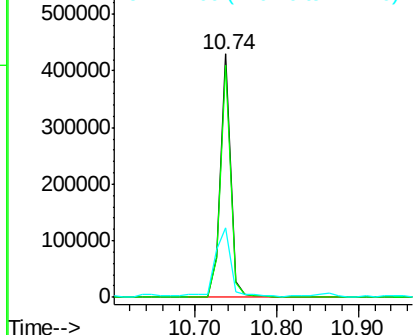
#41
 2,4,6-Tribromophenol
 Concen: 99.81 ng
 RT: 10.74 min Scan# 735
 Delta R.T. -0.01 min
 Lab File: BF090634.D
 Acq: 18 Oct 2016 18:08

Instrument :
 BNA_F
 ClientSampleId :
 SP-3-3

Tgt Ion:330 Resp: 376239
 Ion Ratio Lower Upper
 330 100
 332 95.5 76.2 114.2
 141 43.1 31.4 47.2

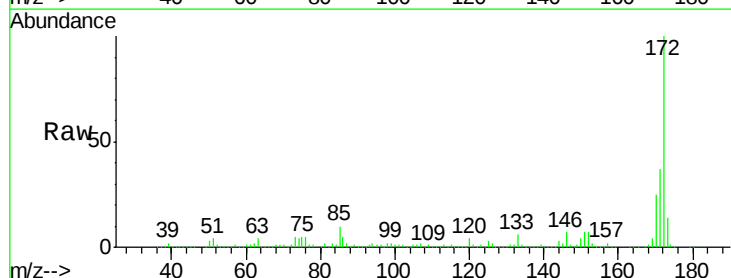


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

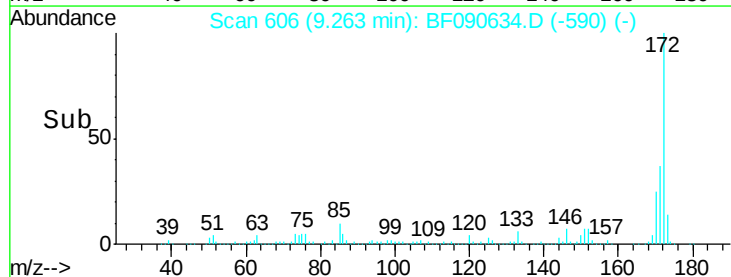
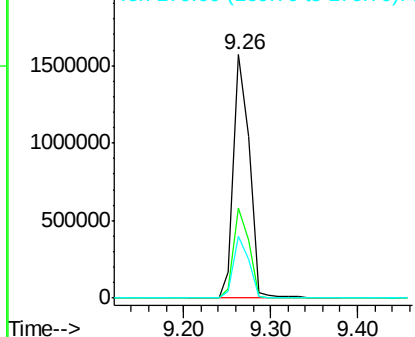


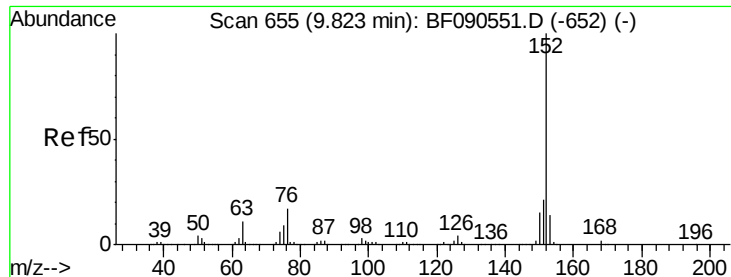
#44
 2-Fluorobiphenyl
 Concen: 77.20 ng
 RT: 9.26 min Scan# 606
 Delta R.T. -0.01 min
 Lab File: BF090634.D
 Acq: 18 Oct 2016 18:08

Tgt Ion:172 Resp: 1981024
 Ion Ratio Lower Upper
 172 100
 171 37.2 30.1 45.1
 170 25.3 20.6 30.8



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: 2.04 ng

RT: 9.80 min Scan# 653

Delta R.T. -0.02 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

Instrument :

BNA_F

ClientSampleId :

SP-3-3

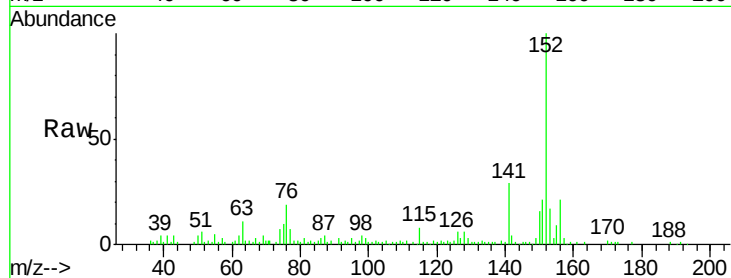
Tgt Ion:152 Resp: 78006

Ion Ratio Lower Upper

152 100

151 20.8 16.6 25.0

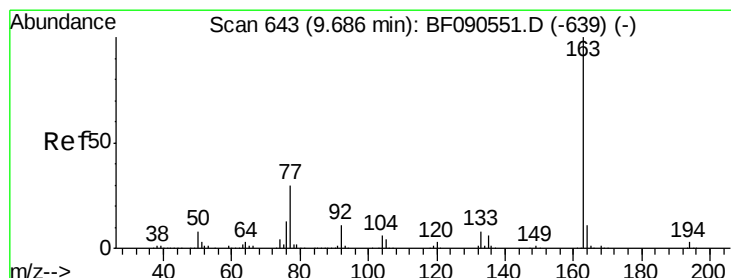
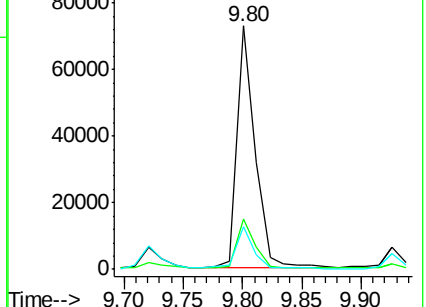
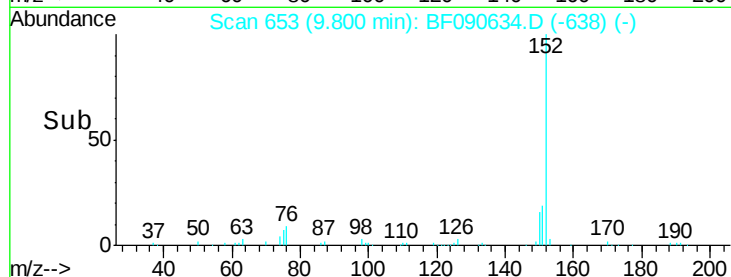
153 17.4 11.3 16.9#



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



#49

Dimethylphthalate

Concen: 22.62 ng

RT: 9.66 min Scan# 641

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

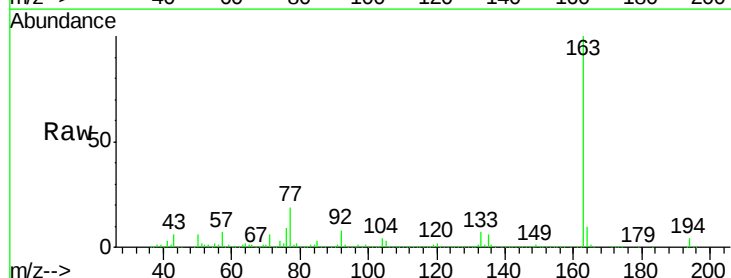
Tgt Ion:163 Resp: 620526

Ion Ratio Lower Upper

163 100

194 3.6 2.3 3.5#

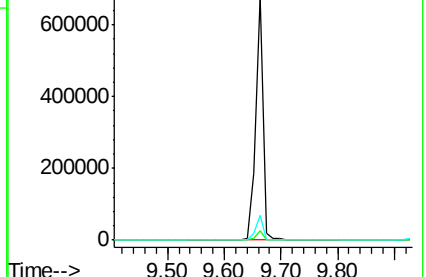
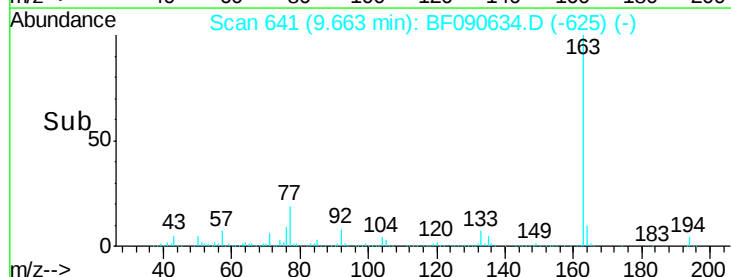
164 10.0 8.6 13.0

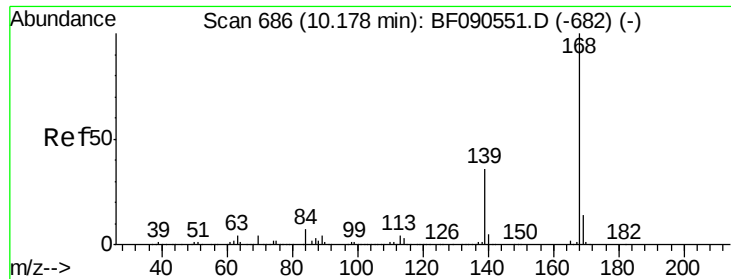


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

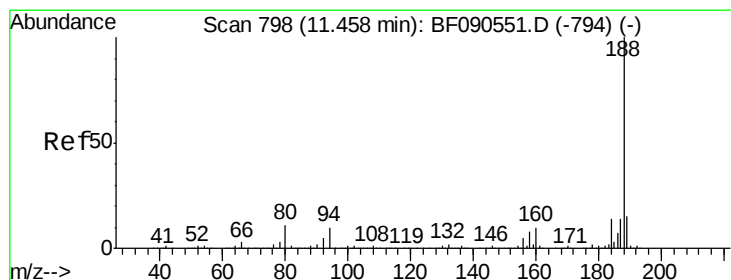
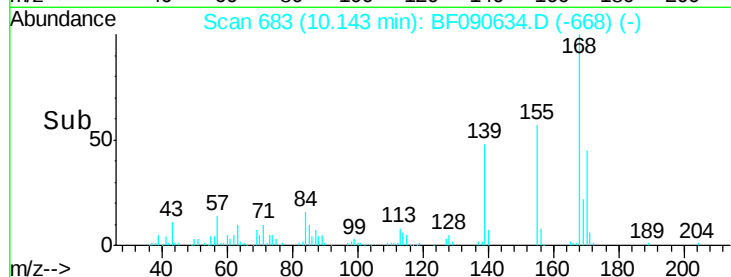
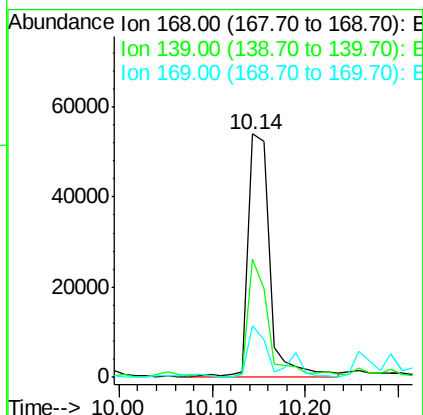
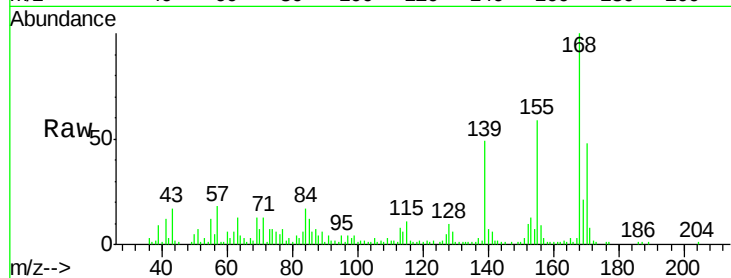




#54
Dibenzenofuran
Concen: 2.61 ng
RT: 10.14 min Scan# 683
Delta R.T. -0.02 min
Lab File: BF090634.D
Acq: 18 Oct 2016 18:08

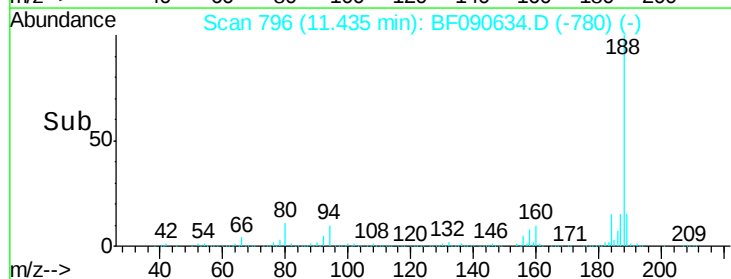
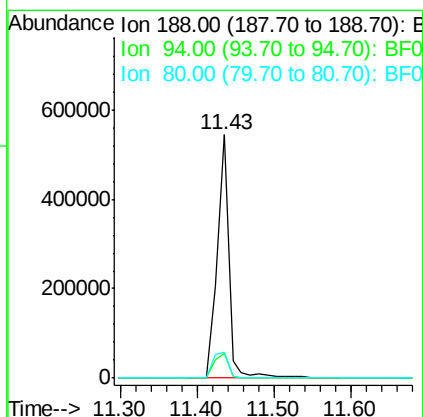
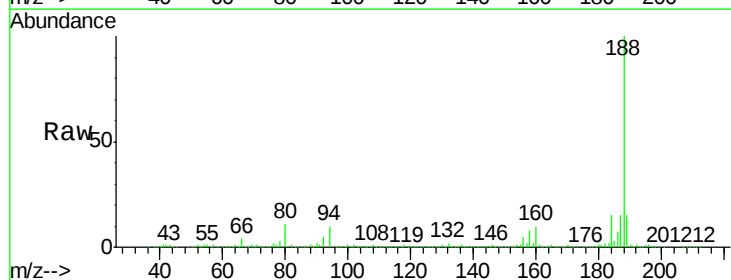
Instrument :
BNA_F
ClientSampleId :
SP-3-3

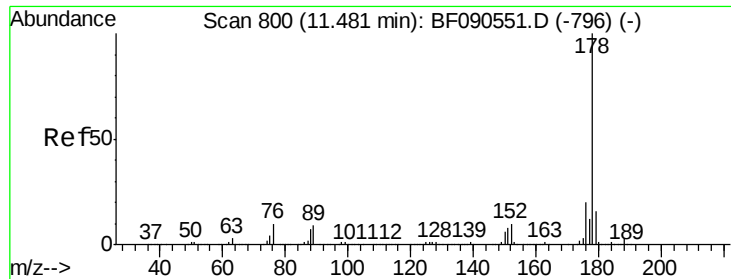
Tgt Ion:168 Resp: 87320
Ion Ratio Lower Upper
168 100
139 48.7 30.5 45.7#
169 21.3 10.9 16.3#



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.43 min Scan# 796
Delta R.T. -0.01 min
Lab File: BF090634.D
Acq: 18 Oct 2016 18:08

Tgt Ion:188 Resp: 582296
Ion Ratio Lower Upper
188 100
94 9.9 7.7 11.5
80 10.8 8.6 12.8

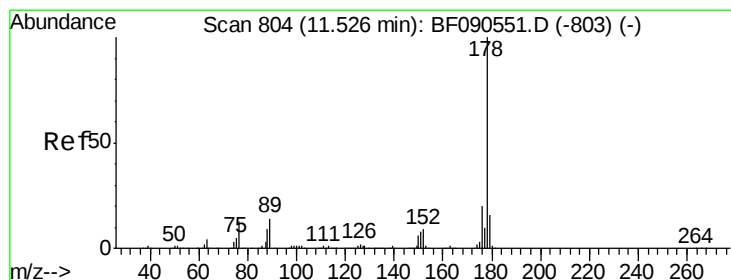
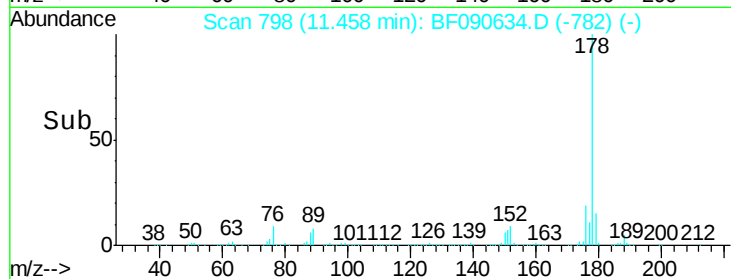
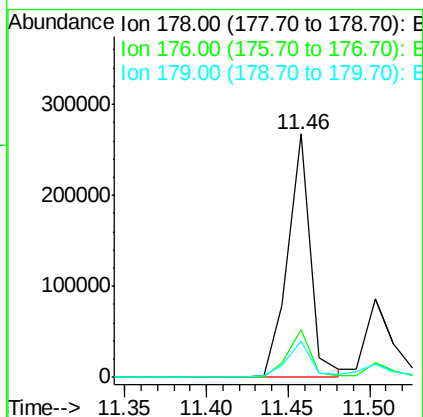
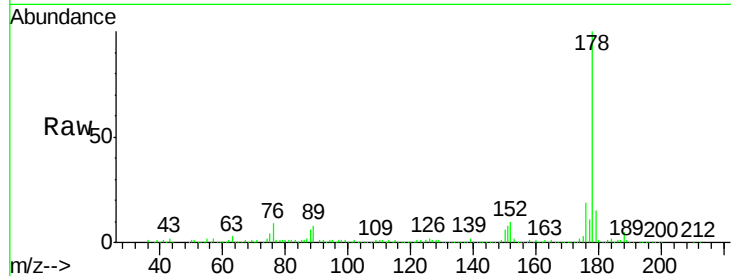




#70
Phenanthrene
Concen: 8.39 ng
RT: 11.46 min Scan# 798
Delta R.T. -0.01 min
Lab File: BF090634.D
Acq: 18 Oct 2016 18:08

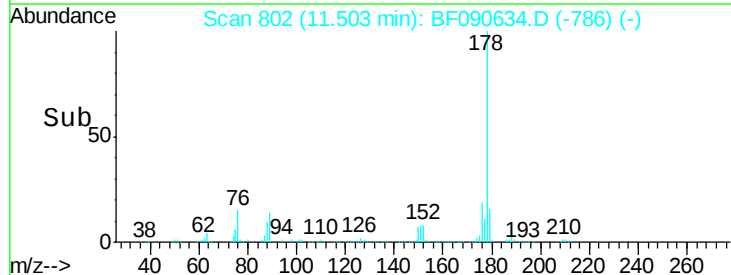
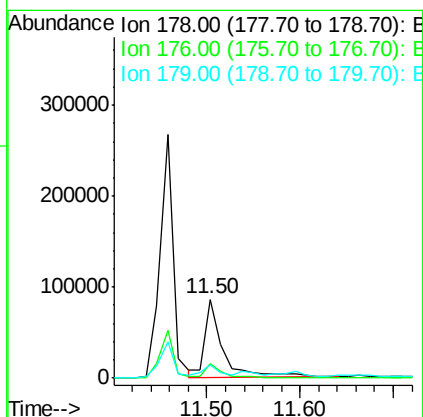
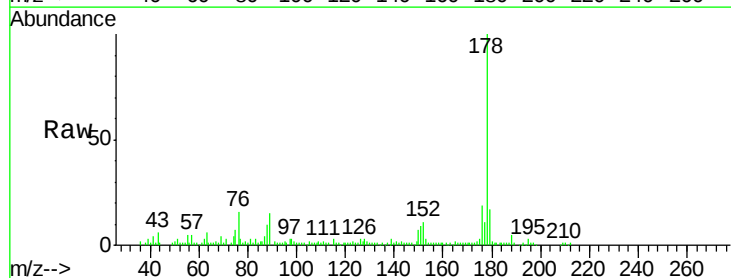
Instrument :
BNA_F
ClientSampleId :
SP-3-3

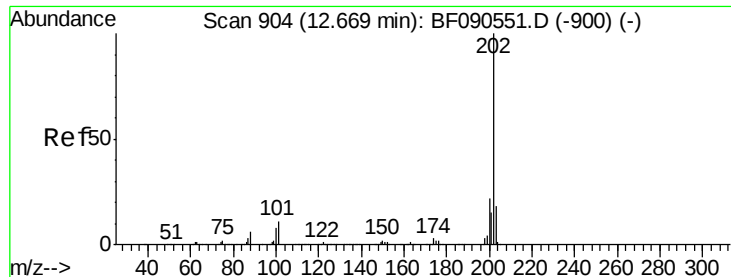
Tgt Ion:178 Resp: 260801
Ion Ratio Lower Upper
178 100
176 19.4 16.1 24.1
179 15.1 12.6 19.0



#71
Anthracene
Concen: 3.32 ng
RT: 11.50 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF090634.D
Acq: 18 Oct 2016 18:08

Tgt Ion:178 Resp: 110946
Ion Ratio Lower Upper
178 100
176 19.2 15.5 23.3
179 16.9 13.0 19.4





#74

Fluoranthene

Concen: 12.14 ng

RT: 12.65 min Scan# 902

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

Instrument :

BNA_F

ClientSampleId :

SP-3-3

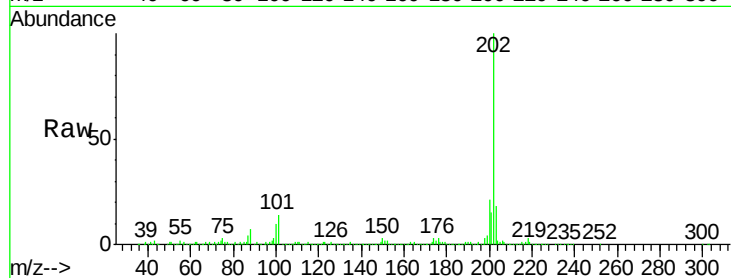
Tgt Ion:202 Resp: 379560

Ion Ratio Lower Upper

202 100

101 14.1 0.0 31.1

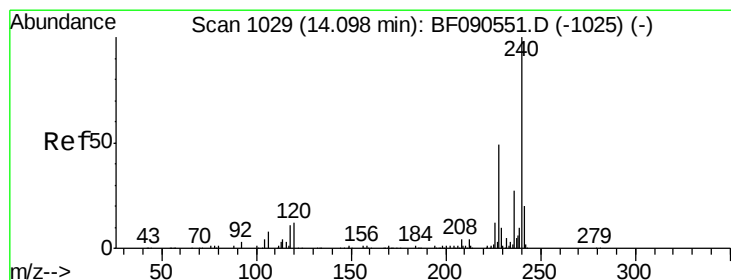
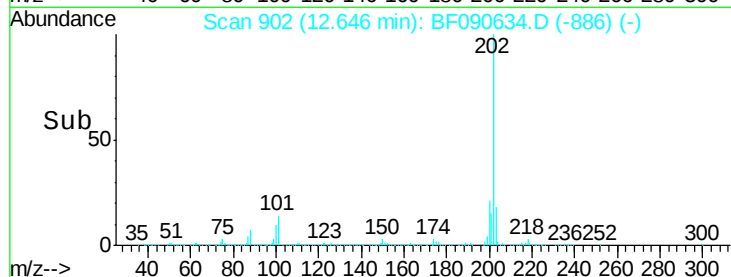
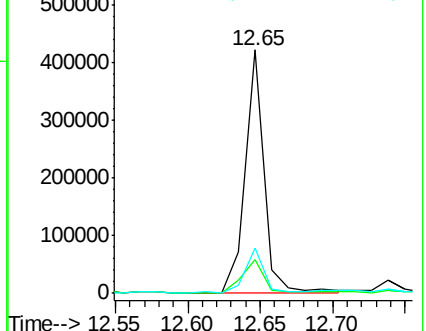
203 18.4 0.0 38.0



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: 14.08 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

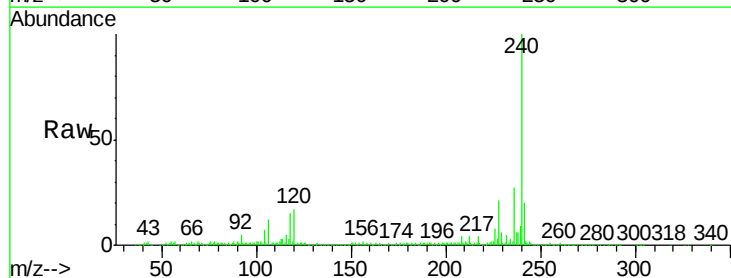
Tgt Ion:240 Resp: 520674

Ion Ratio Lower Upper

240 100

120 16.9 9.8 14.8#

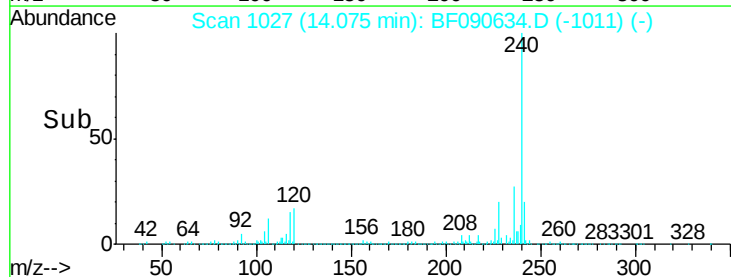
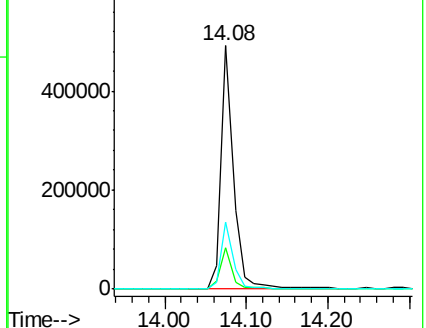
236 27.5 21.7 32.5

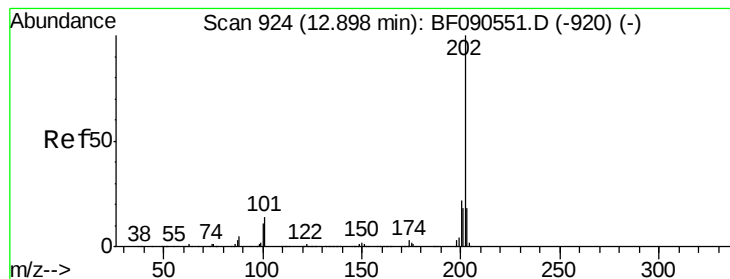


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 9.18 ng

RT: 12.87 min Scan# 922

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

Instrument :

BNA_F

ClientSampleId :

SP-3-3

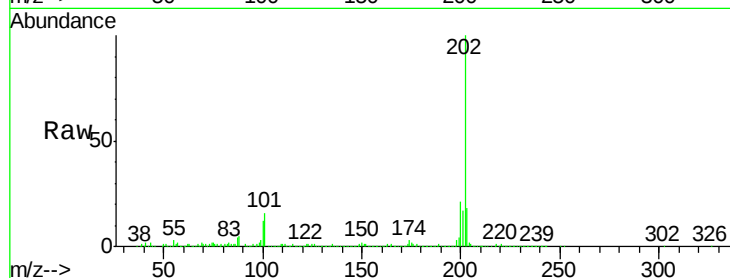
Tgt Ion:202 Resp: 316655

Ion Ratio Lower Upper

202 100

200 21.4 17.8 26.6

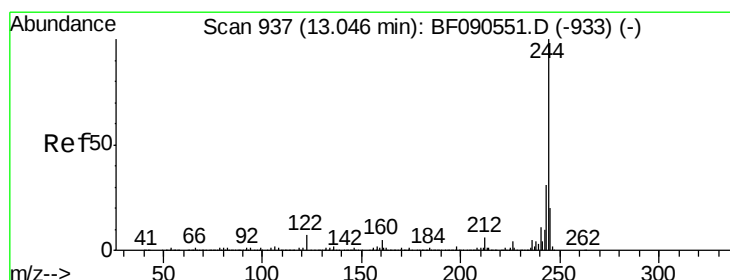
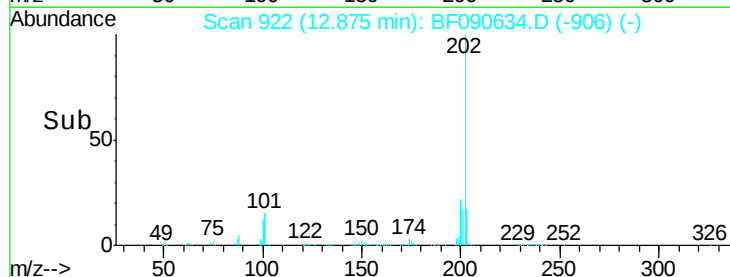
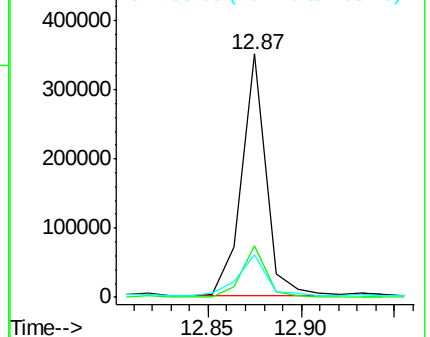
203 17.6 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 71.55 ng

RT: 13.02 min Scan# 935

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

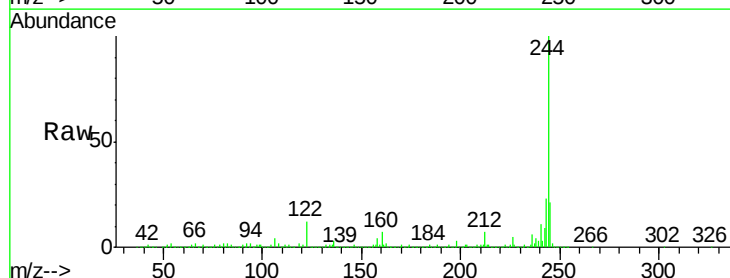
Tgt Ion:244 Resp: 1599903

Ion Ratio Lower Upper

244 100

212 7.3 5.0 7.4

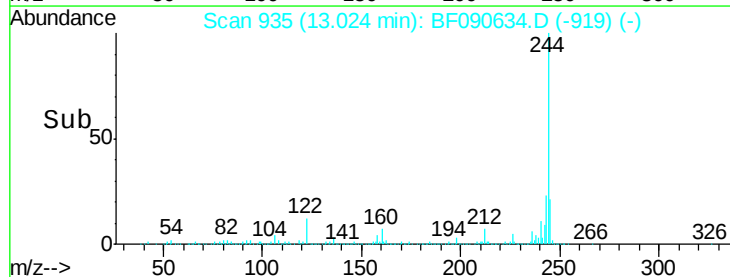
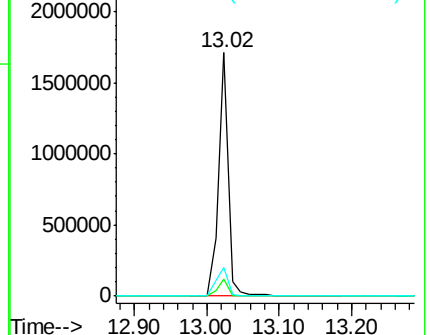
122 11.8 5.6 8.4#

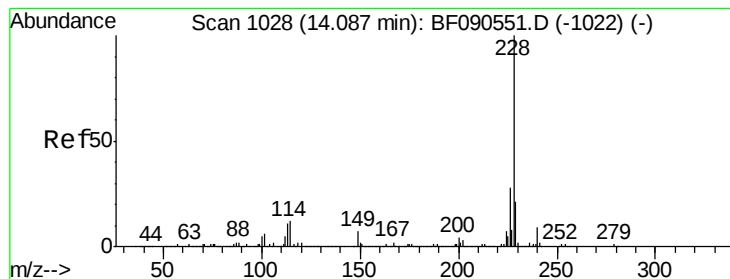


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

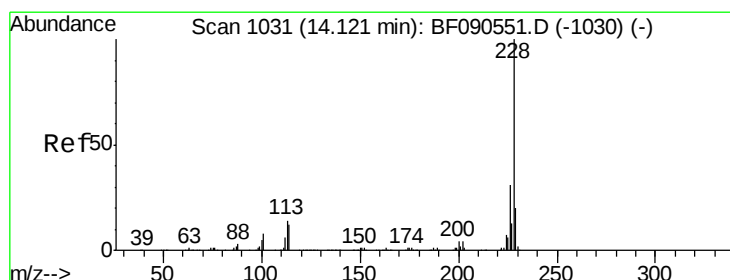
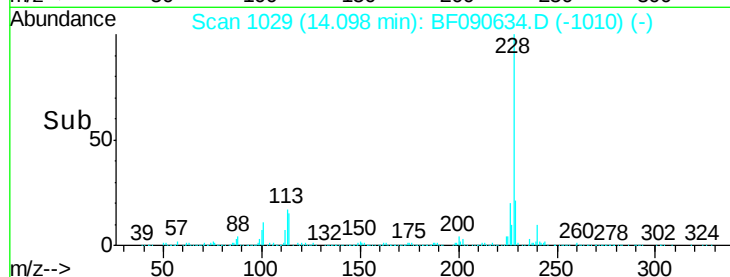
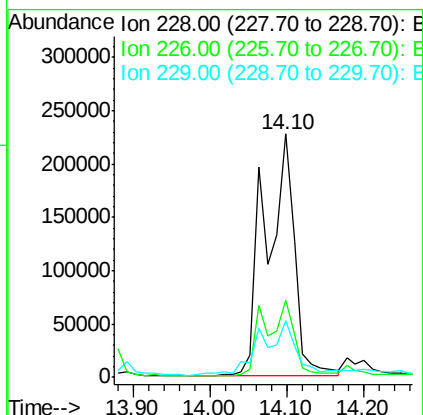
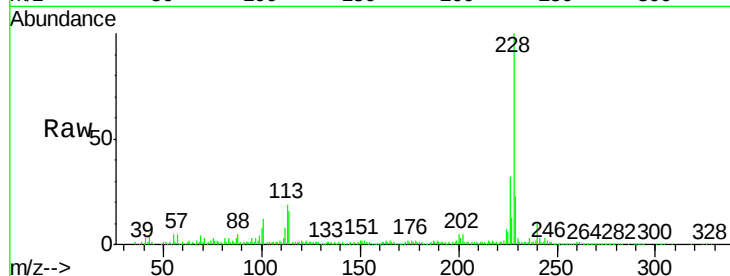




#80
Benzo(a)anthracene
Concen: 20.05 ng
RT: 14.10 min Scan# 1029
Delta R.T. 0.02 min
Lab File: BF090634.D
Acq: 18 Oct 2016 18:08

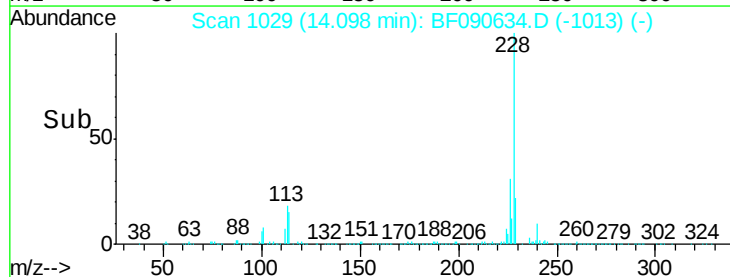
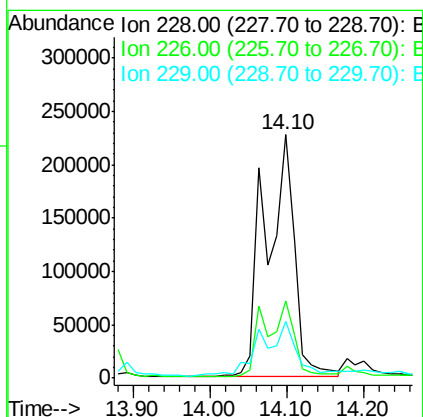
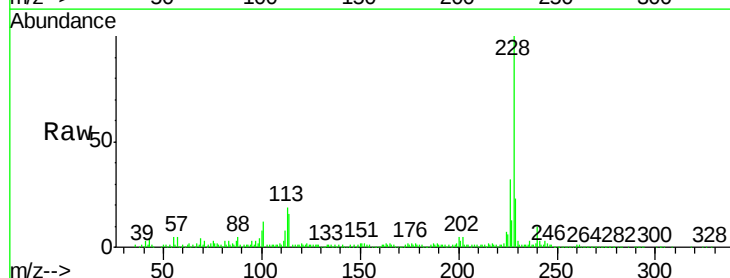
Instrument :
BNA_F
ClientSampleId :
SP-3-3

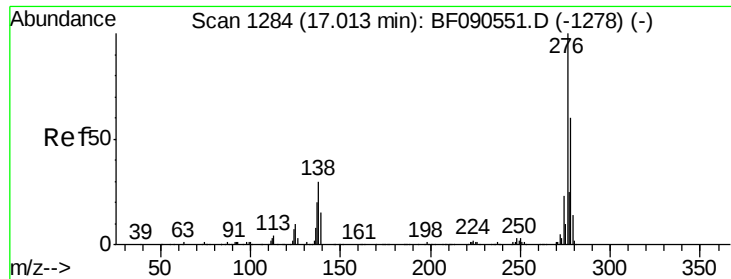
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	22.8	34.2
229	23.3	16.6	25.0



#82
Chrysene
Concen: 20.81 ng
RT: 14.10 min Scan# 1029
Delta R.T. -0.01 min
Lab File: BF090634.D
Acq: 18 Oct 2016 18:08

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.7	24.8	37.2
229	23.3	16.2	24.4

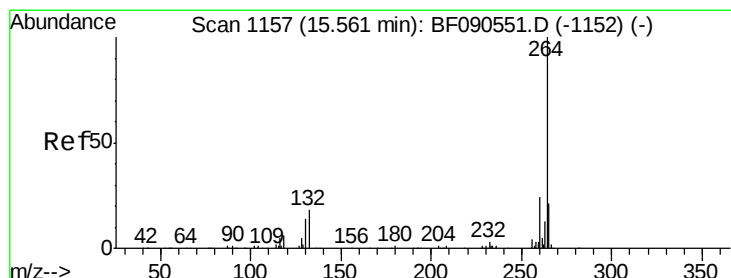
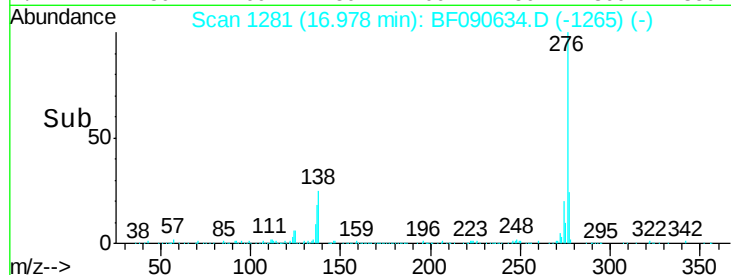
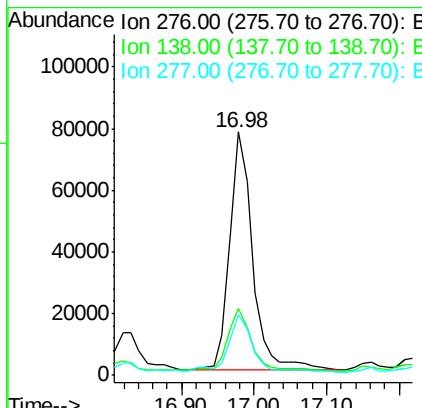
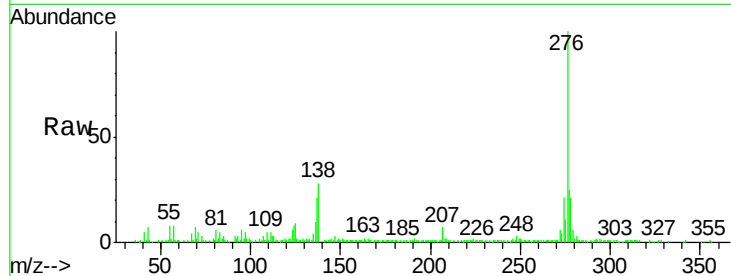




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 10.40 ng
 RT: 16.98 min Scan# 1281
 Delta R.T. -0.01 min
 Lab File: BF090634.D
 Acq: 18 Oct 2016 18:08

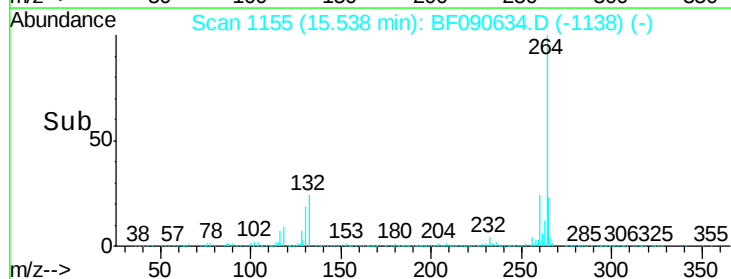
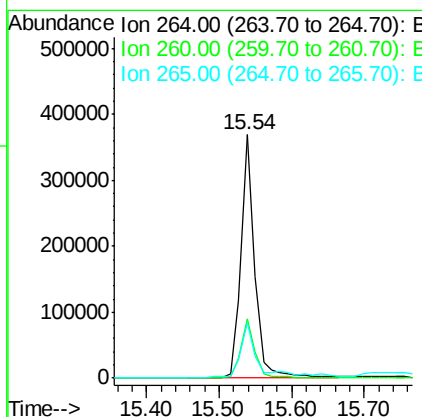
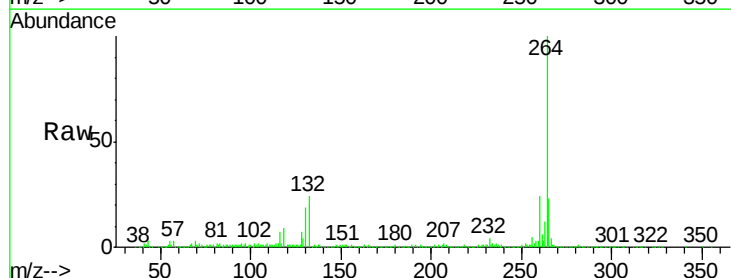
Instrument :
 BNA_F
 ClientSampled :
 SP-3-3

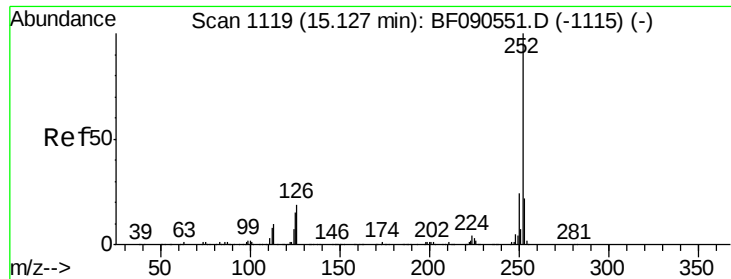
Tgt Ion:276 Resp: 171770
 Ion Ratio Lower Upper
 276 100
 138 29.0 25.8 38.6
 277 25.8 20.1 30.1



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.54 min Scan# 1155
 Delta R.T. -0.00 min
 Lab File: BF090634.D
 Acq: 18 Oct 2016 18:08

Tgt Ion:264 Resp: 487943
 Ion Ratio Lower Upper
 264 100
 260 24.3 19.3 28.9
 265 22.7 16.7 25.1





#87

Benzo(b)fluoranthene

Concen: 22.41 ng

RT: 15.12 min Scan# 1118

Delta R.T. -0.00 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

Instrument :

BNA_F

ClientSampleId :

SP-3-3

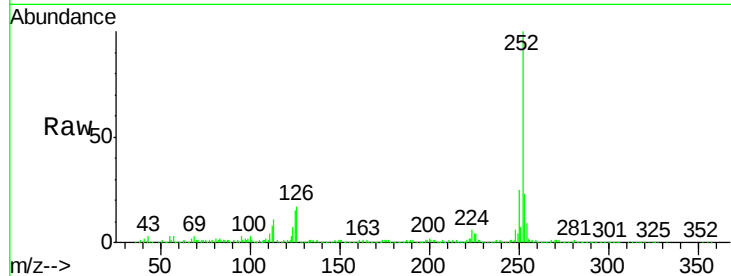
Tgt Ion:252 Resp: 715588

Ion Ratio Lower Upper

252 100

253 22.6 17.8 26.8

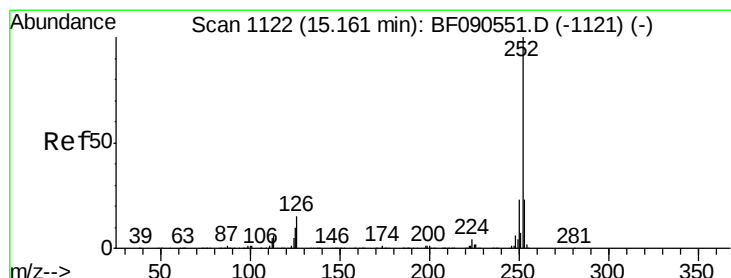
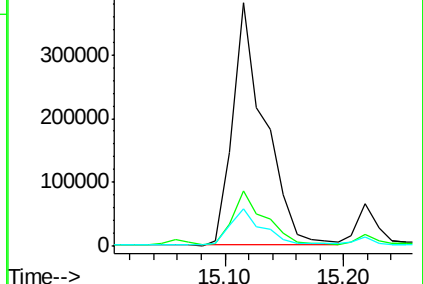
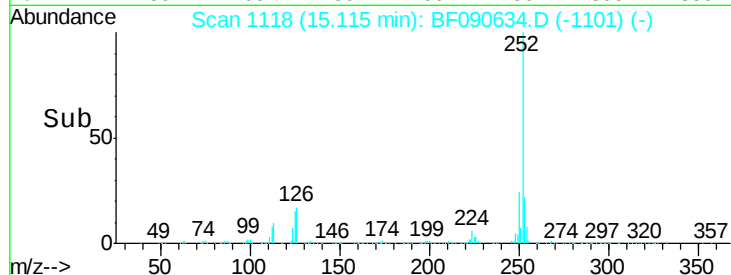
125 15.5 12.0 18.0



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: 20.83 ng

RT: 15.12 min Scan# 1118

Delta R.T. -0.03 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

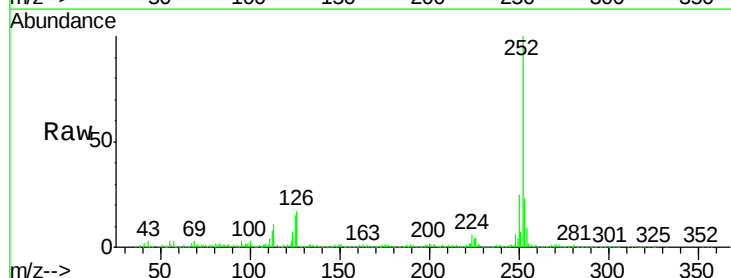
Tgt Ion:252 Resp: 715588

Ion Ratio Lower Upper

252 100

253 22.6 18.0 27.0

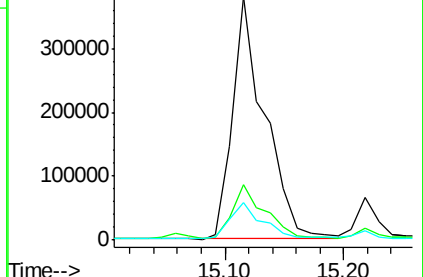
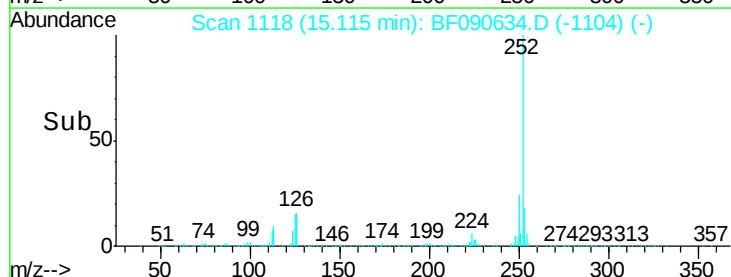
125 15.5 10.0 15.0#

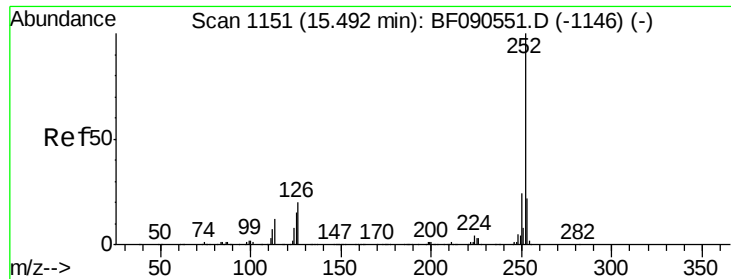


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 7.15 ng

RT: 15.47 min Scan# 1149

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

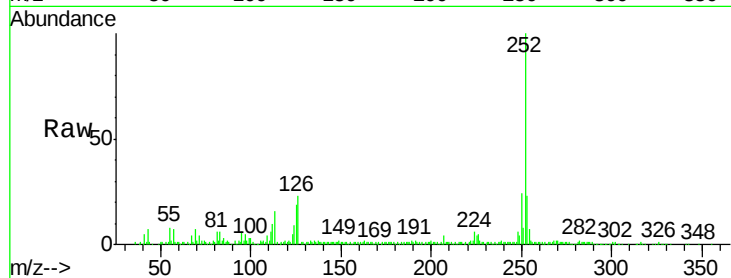
Instrument :

BNA_F

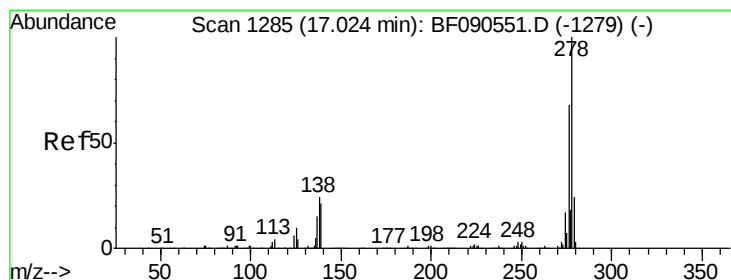
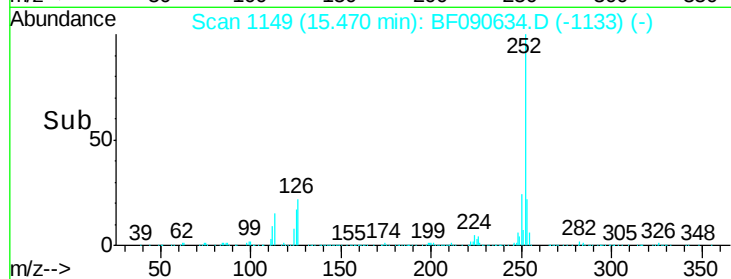
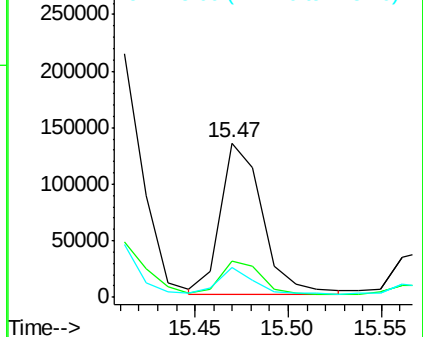
ClientSampleId :

SP-3-3

Tgt Ion:	252	Resp:	208983
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.9	26.9
125	19.2	12.3	18.5#



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: 2.26 ng

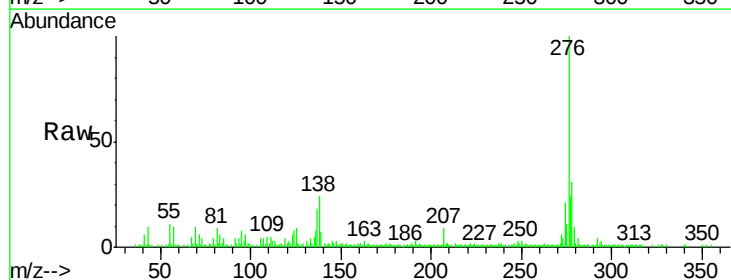
RT: 16.99 min Scan# 1282

Delta R.T. -0.02 min

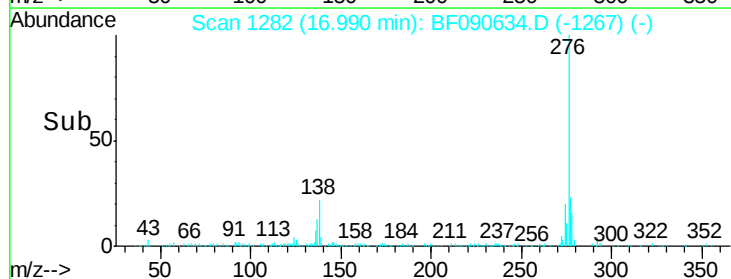
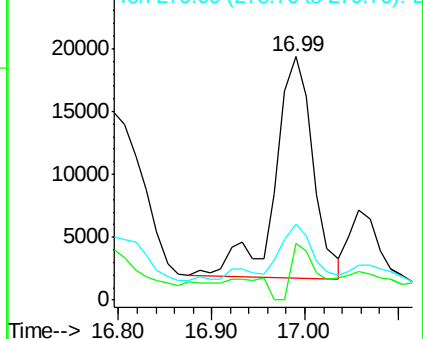
Lab File: BF090634.D

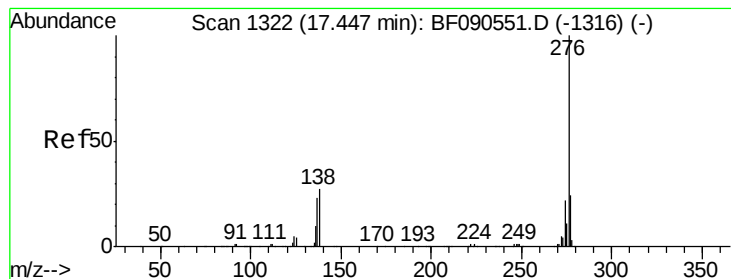
Acq: 18 Oct 2016 18:08

Tgt Ion:	278	Resp:	50317
Ion Ratio	Lower	Upper	
278	100		
139	23.4	16.6	25.0
279	31.4	19.1	28.7#



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(g,h,i)perylene

Concen: 6.90 ng

RT: 17.41 min Scan# 1319

Delta R.T. -0.01 min

Lab File: BF090634.D

Acq: 18 Oct 2016 18:08

Instrument :

BNA_F

ClientSampleId :

SP-3-3

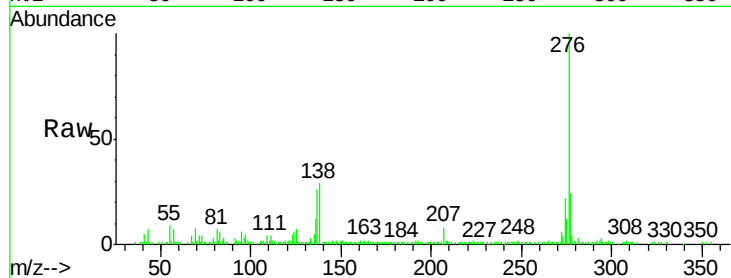
Tgt Ion: 276 Resp: 146651

Ion Ratio Lower Upper

276 100

277 24.3 18.8 28.2

138 28.8 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

