

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121815\
 Data File : BF083893.D
 Acq On : 18 Dec 2015 3:24
 Operator : UM/SJ
 Sample : G4680-02
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 K212-(8-10)

Manual Integrations
 APPROVED

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 12/18/2015 6:21:50 PM

Quant Time: Dec 18 06:16:15 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121815.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 18 01:01:02 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.88	152	48330m	20.00	ng	0.00
21) Naphthalene-d8	8.17	136	190008m	20.00	ng	0.01
38) Acenaphthene-d10	9.93	164	120583m	20.00	ng	0.01
63) Phenanthrene-d10	11.41	188	117070m	20.00	ng	0.02
75) Chrysene-d12	14.08	240	90356m	20.00	ng	0.05
86) Perylene-d12	15.52	264	85836m	20.00	ng	0.05

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	402827	130.44	ng	0.01
7) Phenol-d6	6.52	99	510131	134.95	ng	0.01
23) Nitrobenzene-d5	7.45	82	308549	92.68	ng	0.01
41) 2,4,6-Tribromophenol	10.72	330	90758	68.32	ng	0.01
44) 2-Fluorobiphenyl	9.24	172	475948	52.10	ng	0.00
78) Terphenyl-d14	13.01	244	316670	81.70	ng	0.03

Target Compounds

						Qvalue
31) Naphthalene	8.19	128	338165m	34.83	ng	
37) 2-Methylnaphthalene	8.89	142	454901m	68.88	ng	
45) 1,1'-Biphenyl	9.34	154	77126m	6.17	ng	
48) Acenaphthylene	9.79	152	340354m	24.21	ng	
49) Dimethylphthalate	9.64	163	99765m	9.86	ng	
51) Acenaphthene	9.96	154	77477m	8.96	ng	
70) Phenanthrene	11.45	178	877912	124.12	ng	97
71) Anthracene	11.49	178	309824	45.31	ng	97
74) Fluoranthene	12.67	202	660475m	93.57	ng	
77) Pyrene	12.89	202	1066279	133.17	ng	98
80) Benzo(a)anthracene	14.07	228	697934m	125.63	ng	
82) Chrysene	14.10	228	709941m	132.29	ng	
85) Indeno(1,2,3-cd)pyrene	16.96	276	83800m	20.88	ng	
87) Benzo(b)fluoranthene	15.11	252	304929m	48.73	ng	
88) Benzo(k)fluoranthene	15.12	252	84991m	16.46	ng	
89) Benzo(a)pyrene	15.46	252	238919m	46.23	ng	
90) Dibenzo(a,h)anthracene	16.96	278	38303m	9.53	ng	
91) Benzo(g,h,i)perylene	17.39	276	86300	21.90	ng	96

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

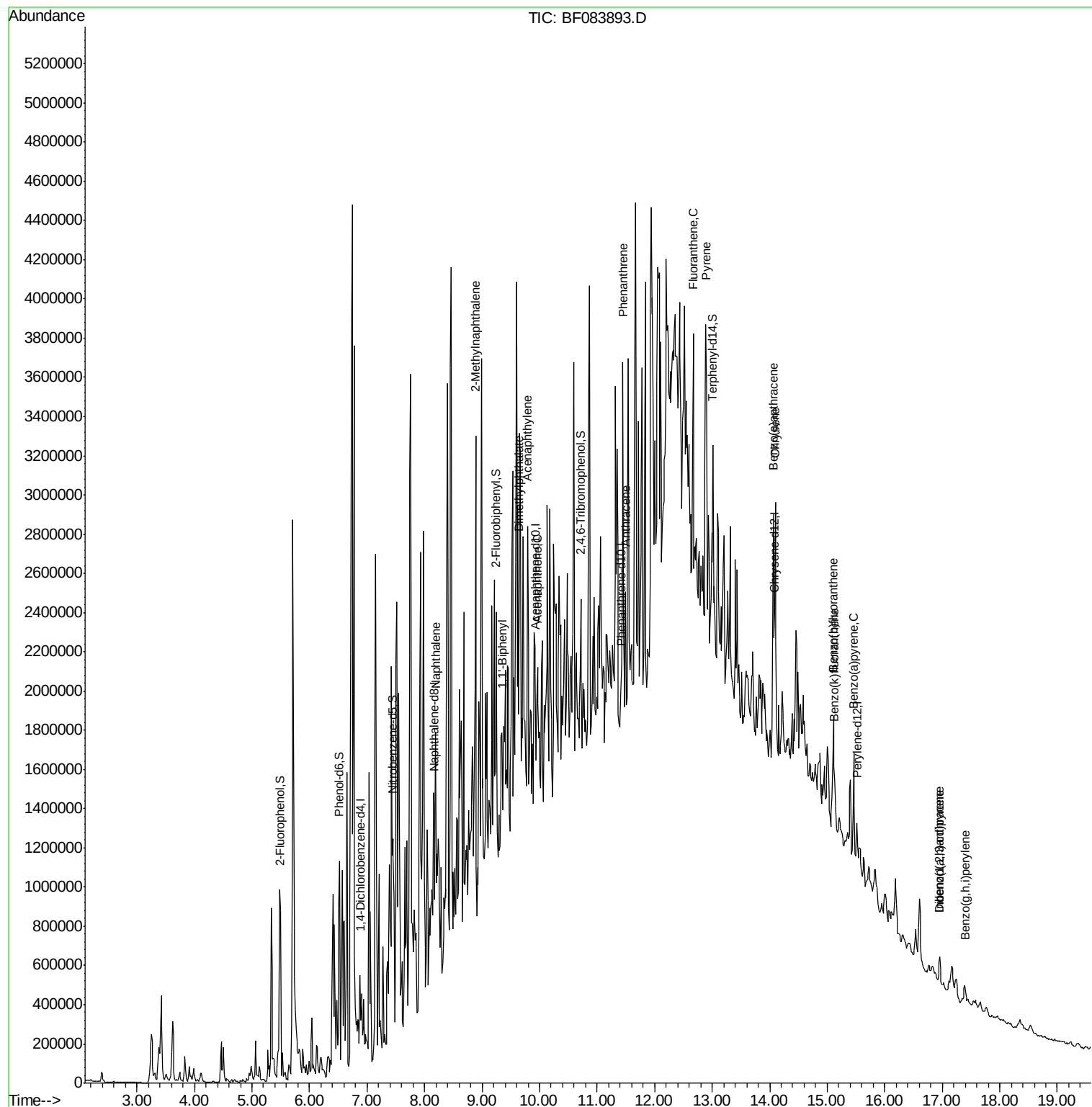
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF121815\
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ALS Vial : 14 Sample Multiplier: 1

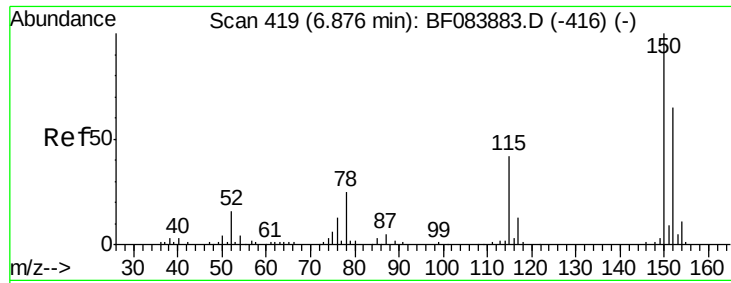
Instrument :
BNA_F
ClientSampleId :
K212-(8-10)

Manual Integrations
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF121815.M
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#1

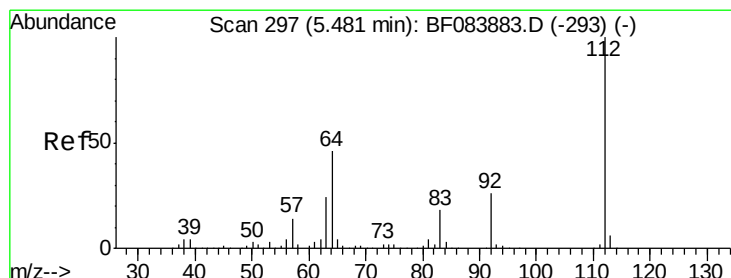
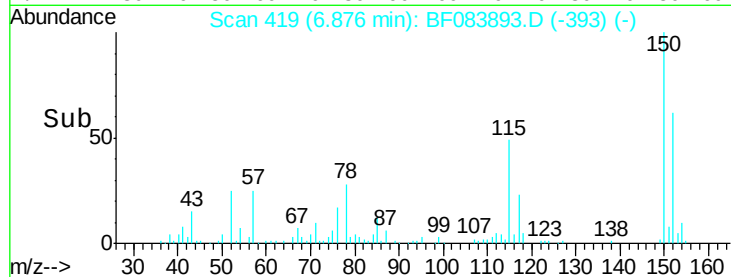
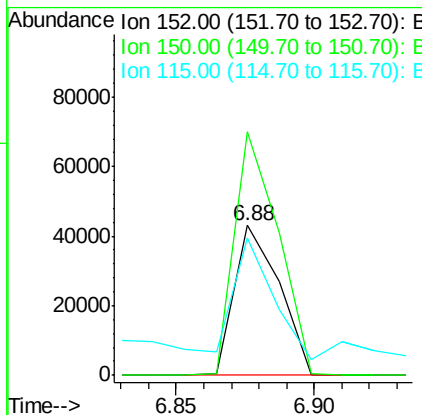
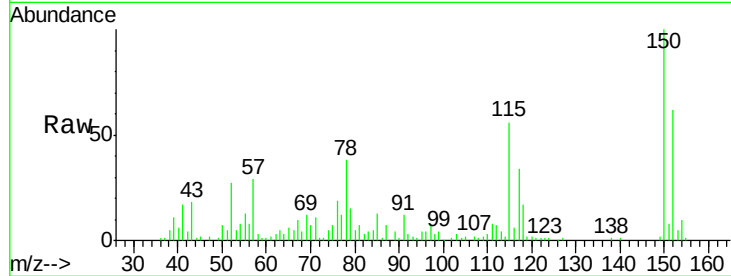
1,4-Dichlorobenzene-d4
Concen: 20.00 ng m
RT: 6.88 min Scan# 419
Delta R.T. 0.00 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)

Tgt Ion	Ratio	Lower	Upper
152	100		
150	162.6	123.0	184.4
115	91.7	51.4	77.2

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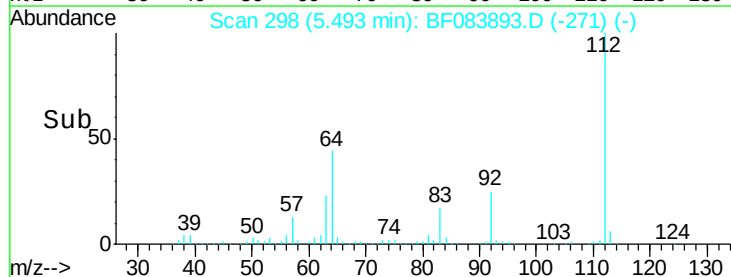
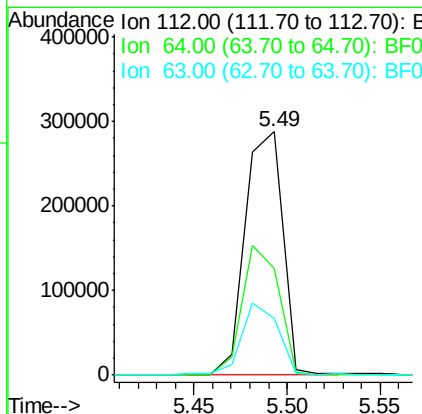
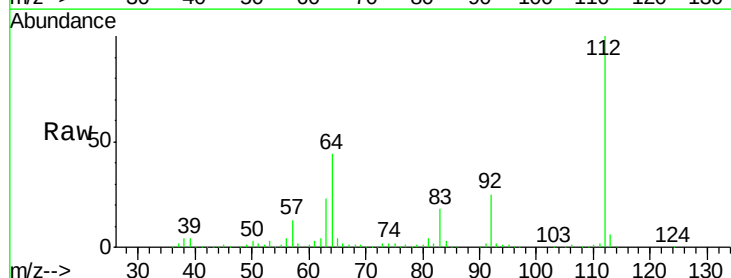
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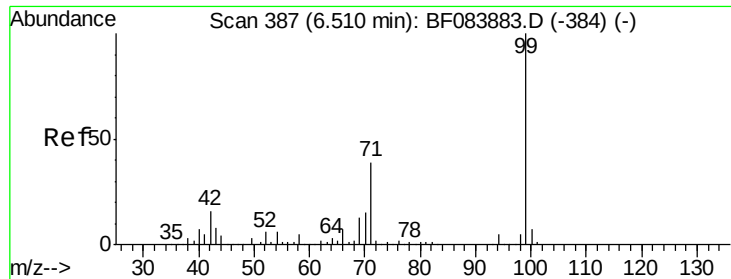


#5

2-Fluorophenol
Concen: 130.44 ng
RT: 5.49 min Scan# 298
Delta R.T. 0.01 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Tgt Ion	Ratio	Lower	Upper
112	100		
64	43.9	36.6	55.0
63	23.4	19.4	29.0





#7

Phenol-d6

Concen: 134.95 ng

RT: 6.52 min Scan# 388

Delta R.T. 0.01 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

Instrument :

BNA_F

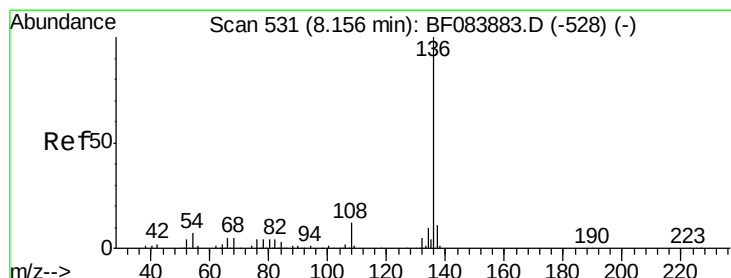
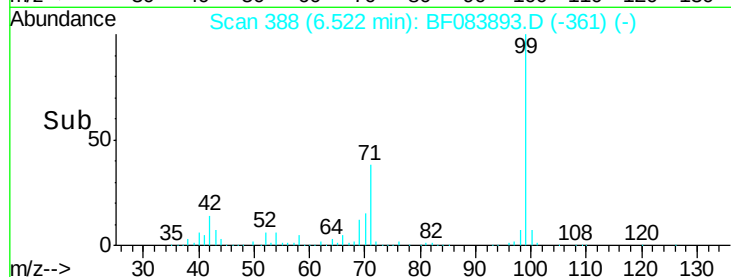
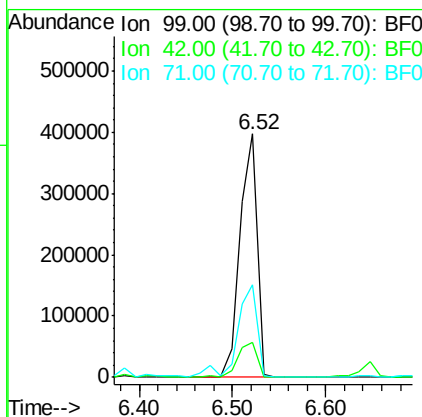
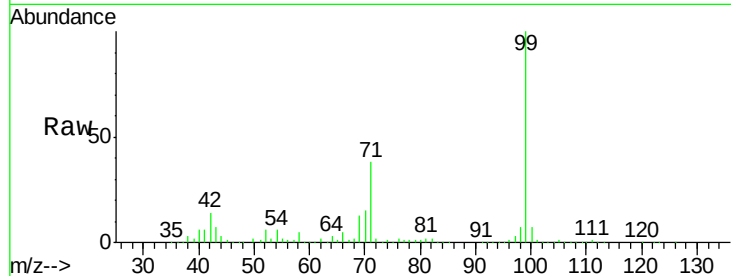
ClientSampleId :

K212-(8-10)

Tgt Ion:	99	Resp:	510131
Ion Ratio	Lower	Upper	
99	100		
42	14.3	12.8	19.2
71	38.2	30.9	46.3

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#21

Naphthalene-d8

Concen: 20.00 ng m

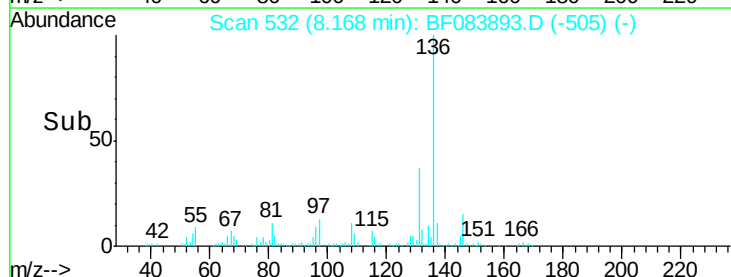
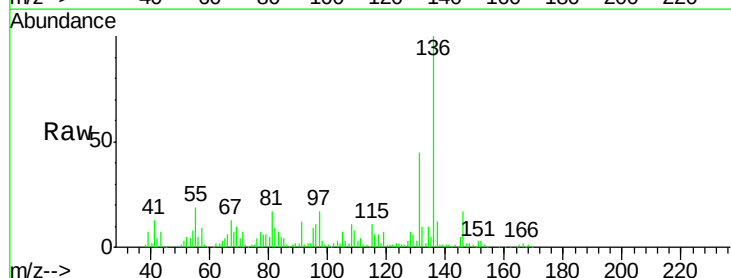
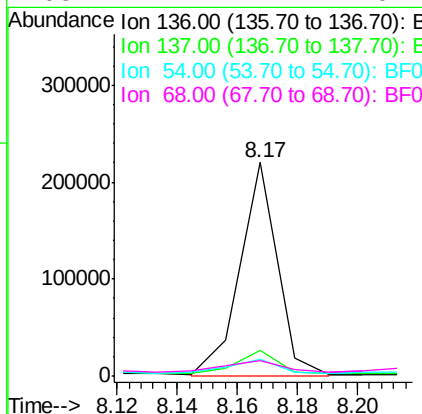
RT: 8.17 min Scan# 532

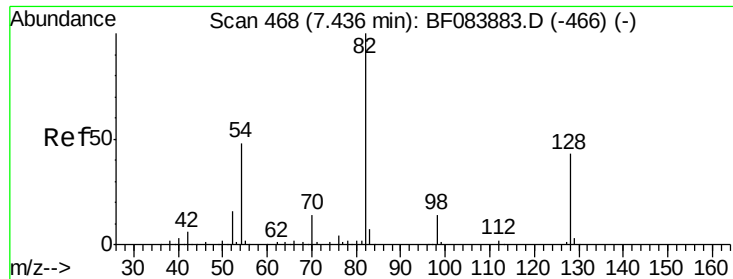
Delta R.T. 0.01 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

Tgt Ion:	136	Resp:	190008
Ion Ratio	Lower	Upper	
136	100		
137	12.2	8.7	13.1
54	7.6	5.8	8.8
68	7.1	4.2	6.2#





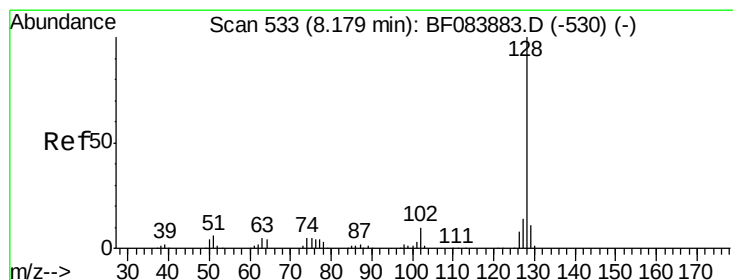
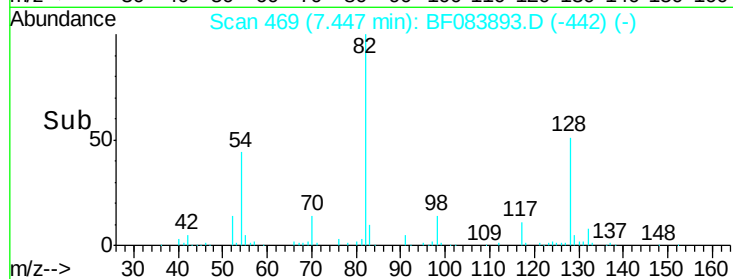
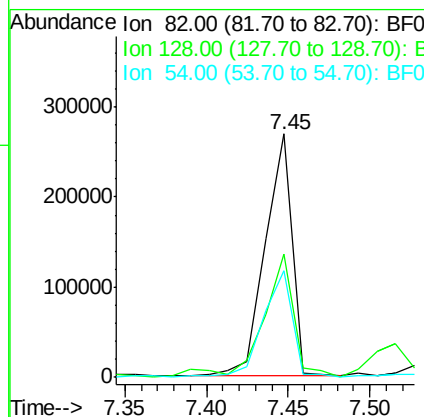
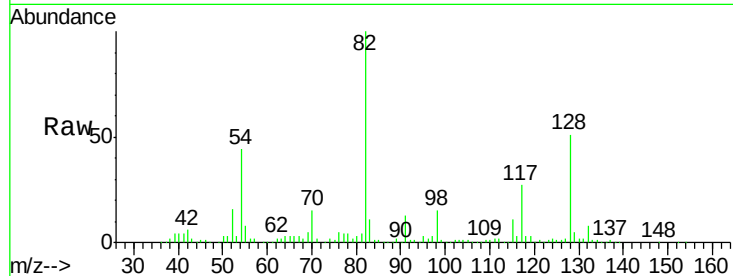
#23
Nitrobenzene-d5
Concen: 92.68 ng
RT: 7.45 min Scan# 469
Delta R.T. 0.01 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	50.7	34.6	51.8
54	44.0	38.4	57.6

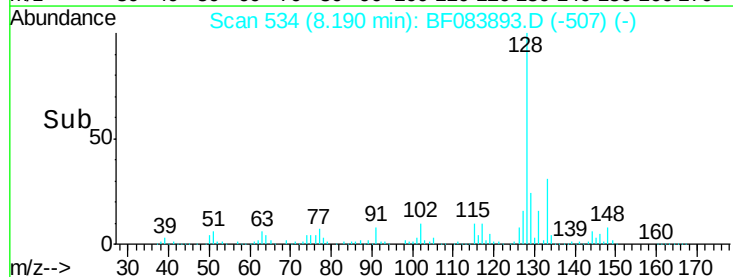
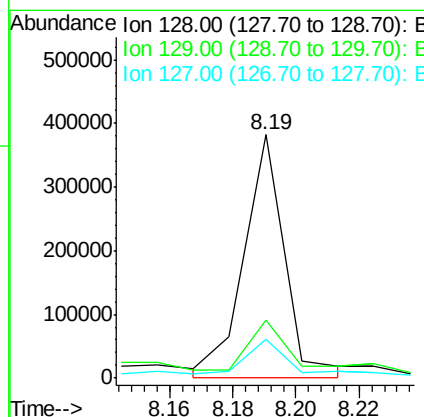
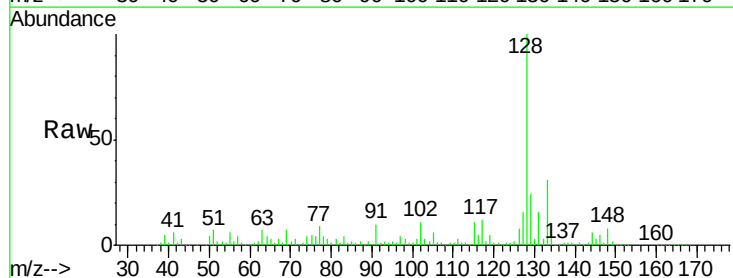
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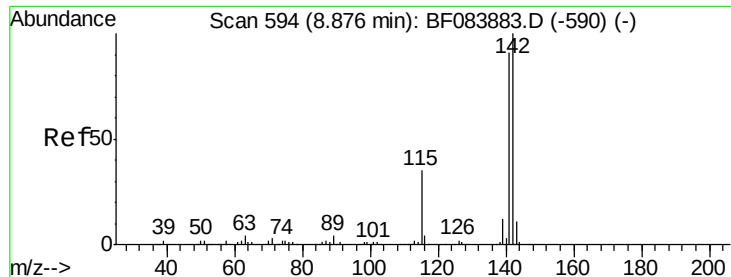
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#31
Naphthalene
Concen: 34.83 ng m
RT: 8.19 min Scan# 534
Delta R.T. 0.01 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	23.7	9.1	13.7#
127	15.8	11.1	16.7





#37

2-Methylnaphthalene

Concen: 68.88 ng m

RT: 8.89 min Scan# 595

Delta R.T. 0.01 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

Instrument :

BNA_F

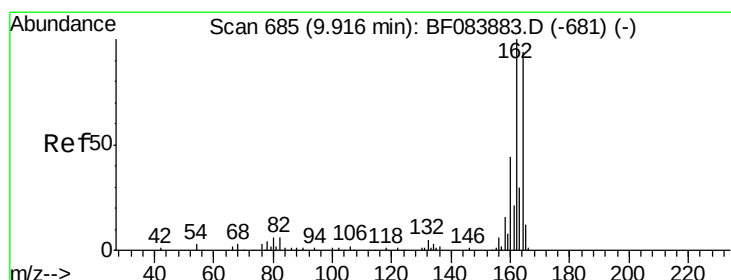
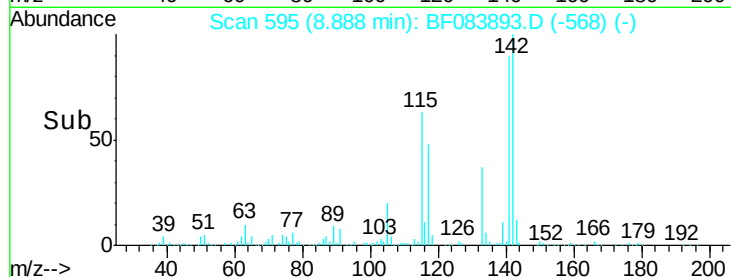
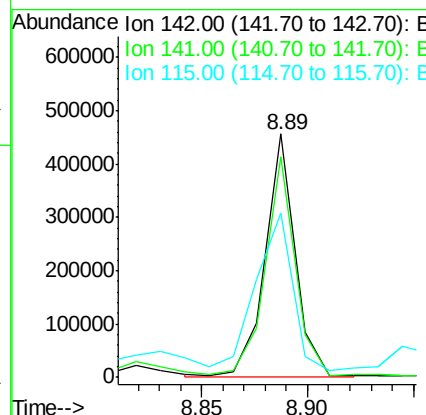
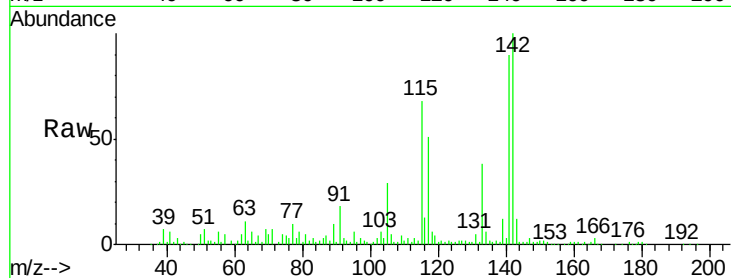
ClientSampleId :

K212-(8-10)

Tgt Ion:	142	Resp:	454901
Ion Ratio	Lower	Upper	
142	100		
141	90.4	72.4	108.6
115	67.6	27.9	41.9#

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#38

Acenaphthene-d10

Concen: 20.00 ng m

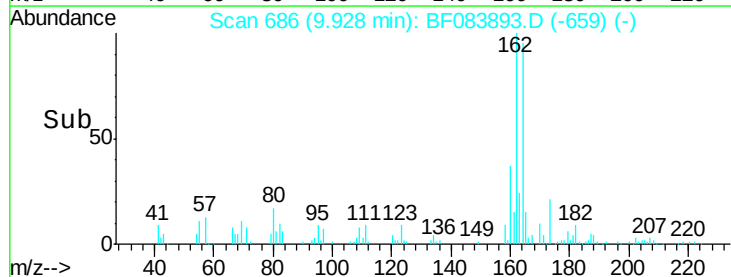
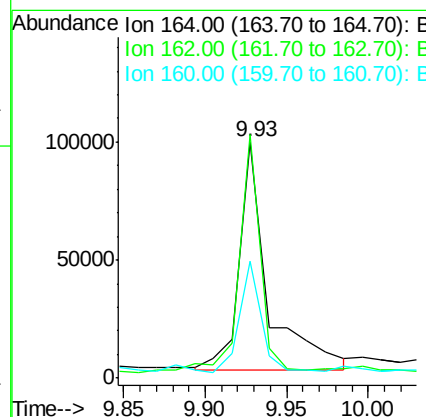
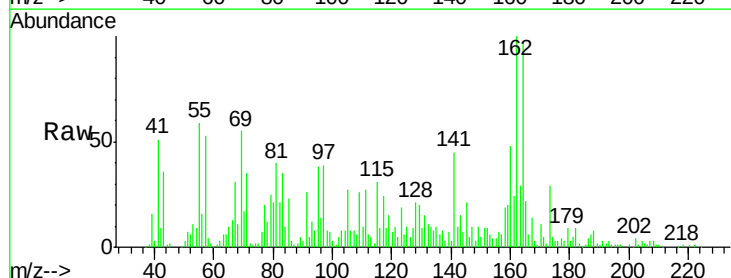
RT: 9.93 min Scan# 686

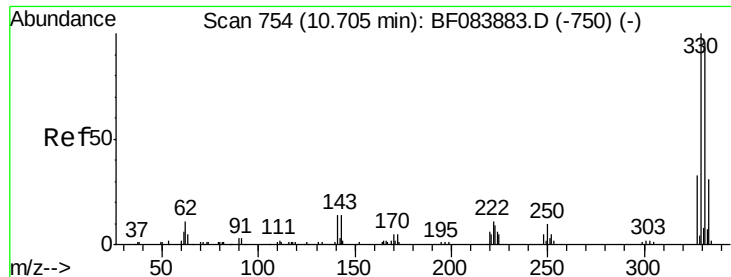
Delta R.T. 0.01 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

Tgt Ion:	164	Resp:	120583
Ion Ratio	Lower	Upper	
164	100		
162	103.1	85.1	127.7
160	49.5	37.5	56.3





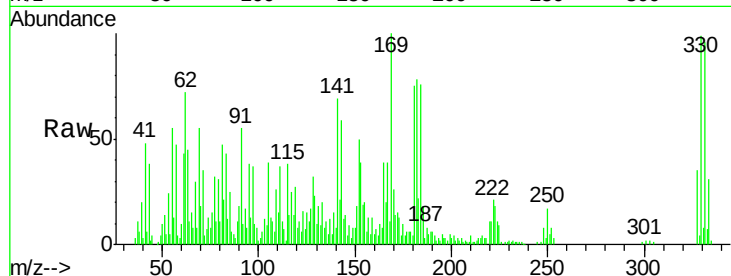
#41
 2,4,6-Tribromophenol
 Concen: 68.32 ng
 RT: 10.72 min Scan# 755
 Delta R.T. 0.01 min
 Lab File: BF083893.D
 Acq: 18 Dec 2015 3:24

Instrument :
 BNA_F
 ClientSampled :
 K212-(8-10)

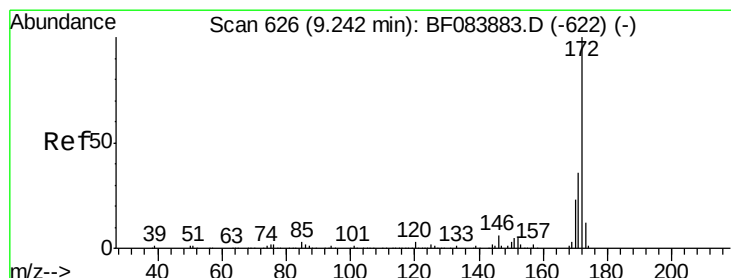
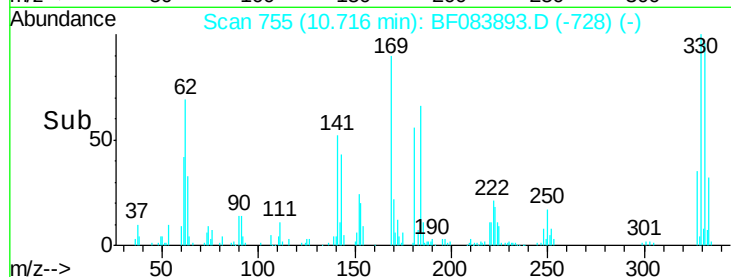
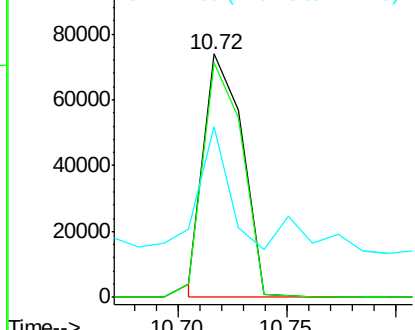
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	90758		
332	96.3	76.6	114.8	
141	33.5	27.8	41.6	

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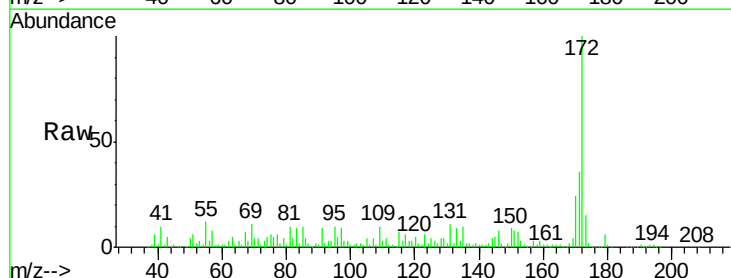


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

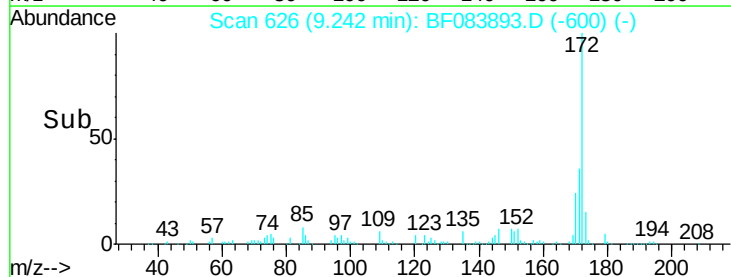
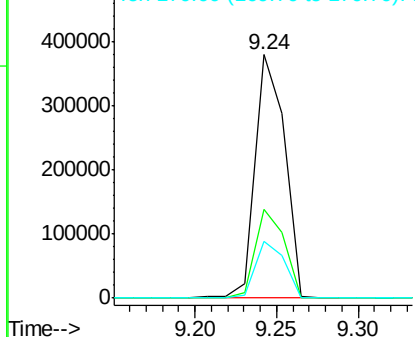


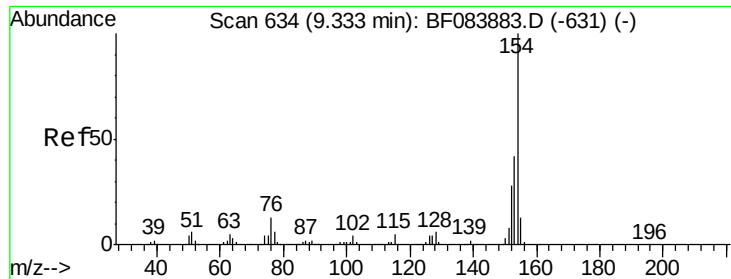
#44
 2-Fluorobiphenyl
 Concen: 52.10 ng
 RT: 9.24 min Scan# 626
 Delta R.T. 0.00 min
 Lab File: BF083893.D
 Acq: 18 Dec 2015 3:24

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	475948		
171	36.4	28.9	43.3	
170	23.6	18.6	27.8	



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





#45

1,1'-Biphenyl

Concen: 6.17 ng m

RT: 9.34 min Scan# 635

Delta R.T. 0.01 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

Instrument :

BNA_F

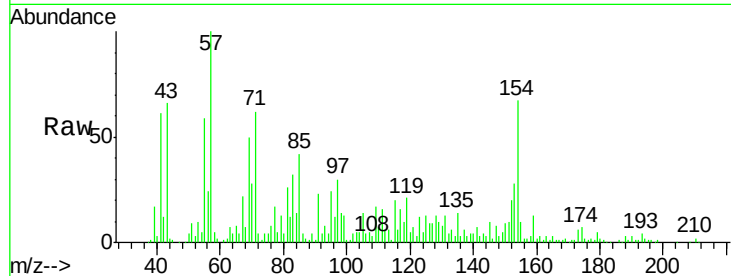
ClientSampleId :

K212-(8-10)

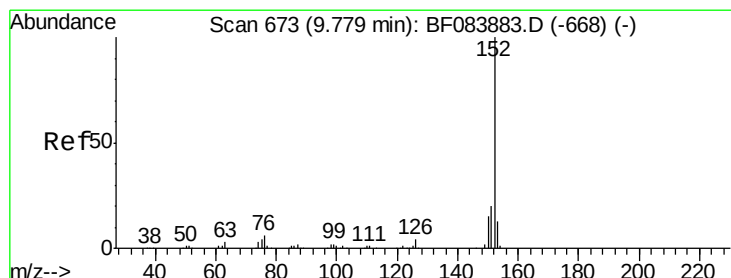
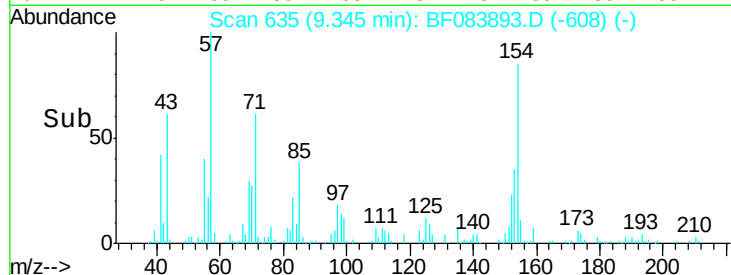
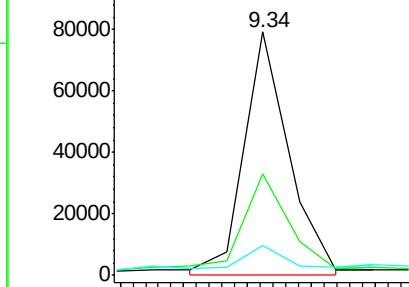
Tgt Ion:	154	Resp:	77126
Ion Ratio	Lower	Upper	
154	100		
153	41.8	21.6	61.6
76	12.2	0.0	32.7

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0



#48

Acenaphthylene

Concen: 24.21 ng m

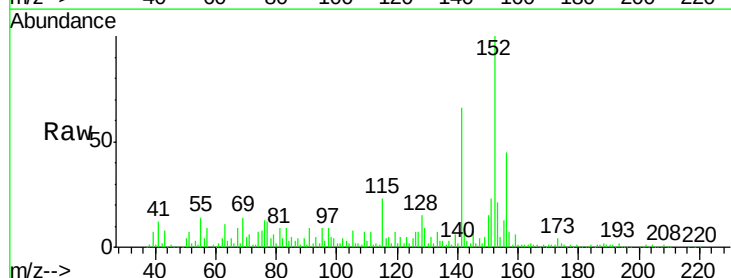
RT: 9.79 min Scan# 674

Delta R.T. 0.01 min

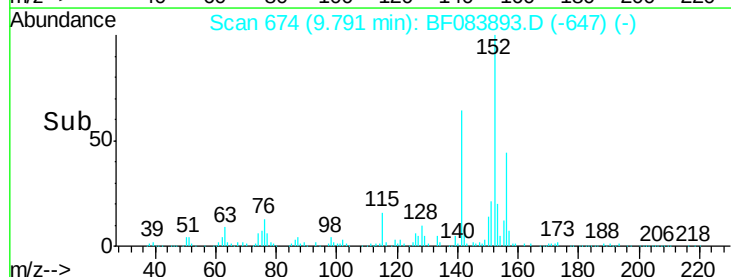
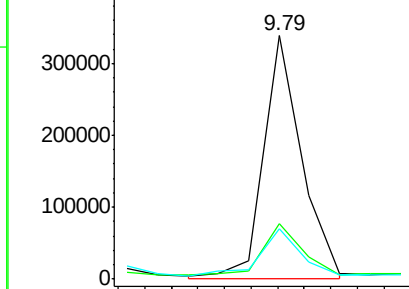
Lab File: BF083893.D

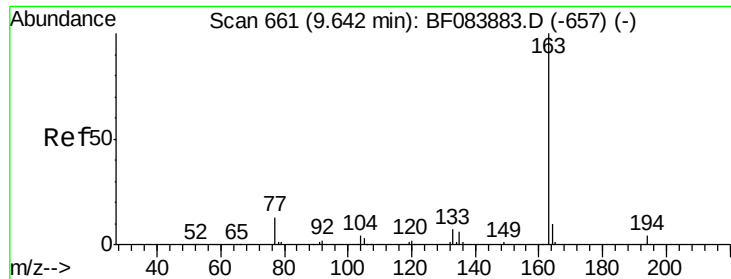
Acq: 18 Dec 2015 3:24

Tgt Ion:	152	Resp:	340354
Ion Ratio	Lower	Upper	
152	100		
151	22.5	16.3	24.5
153	20.8	10.4	15.6#



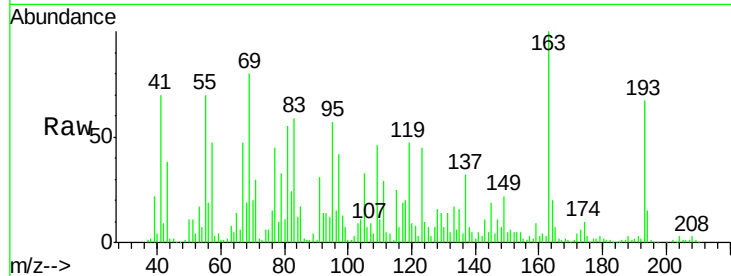
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#49
Dimethylphthalate
Concen: 9.86 ng m
RT: 9.64 min Scan# 661
Delta R.T. 0.00 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

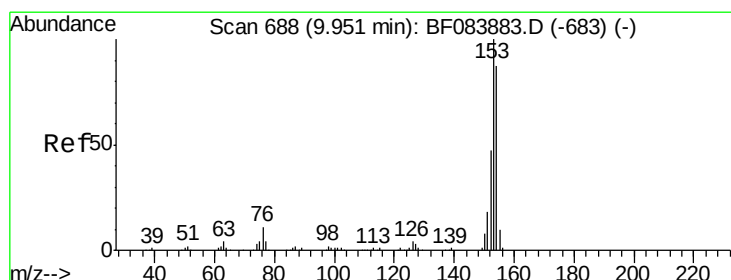
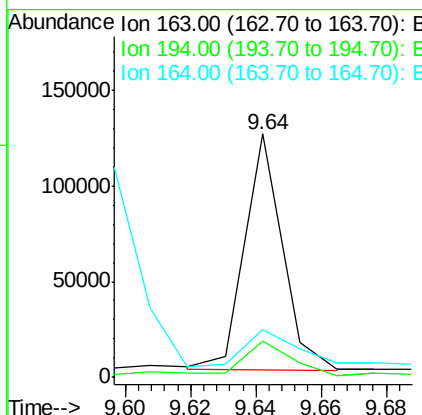
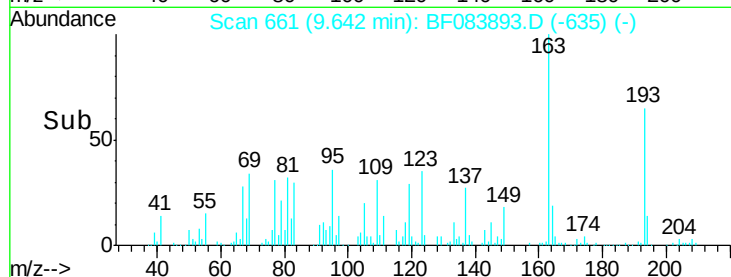
Instrument :
BNA_F
ClientSampleId :
K212-(8-10)



Tgt Ion:163 Resp: 99765
Ion Ratio Lower Upper
163 100
194 14.9 3.0 4.6#
164 19.8 7.9 11.9#

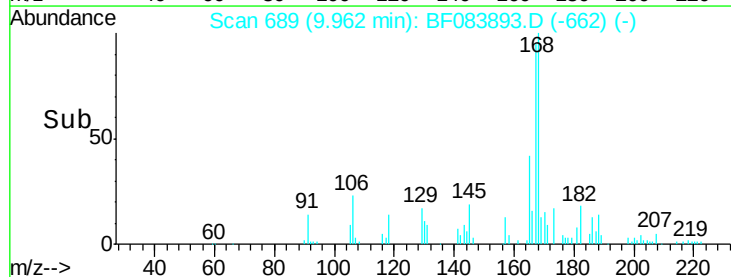
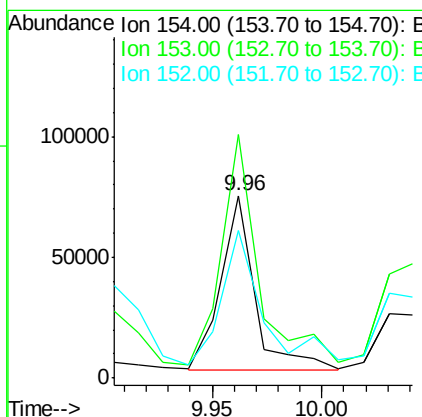
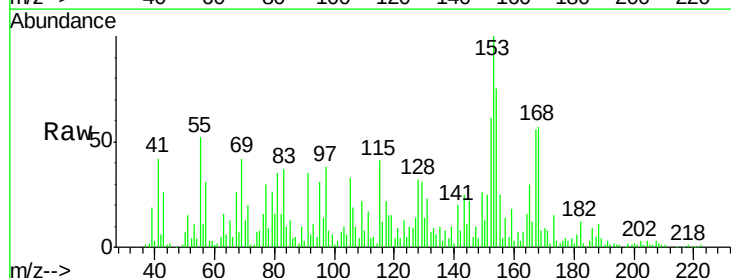
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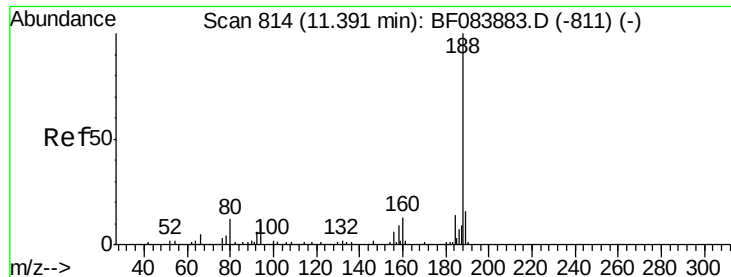
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#51
Acenaphthene
Concen: 8.96 ng m
RT: 9.96 min Scan# 689
Delta R.T. 0.01 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Tgt Ion:154 Resp: 77477
Ion Ratio Lower Upper
154 100
153 133.2 91.5 137.3
152 81.1 43.0 64.6#





#63

Phenanthrene-d10

Concen: 20.00 ng m

RT: 11.41 min Scan# 816

Delta R.T. 0.02 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

Instrument :

BNA_F

ClientSampleId :

K212-(8-10)

Tgt Ion:188 Resp: 117070
Ion Ratio Lower Upper

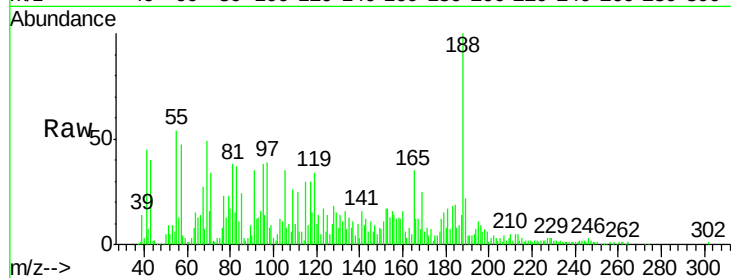
188 100

94 16.1 9.0 13.4#

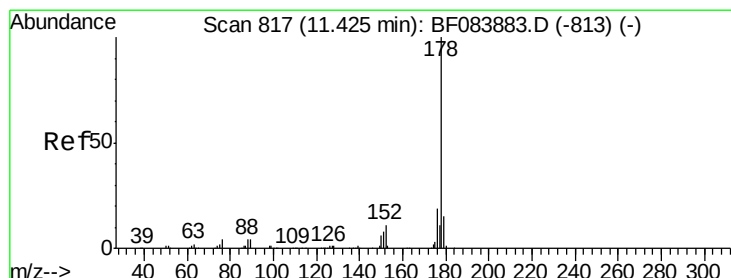
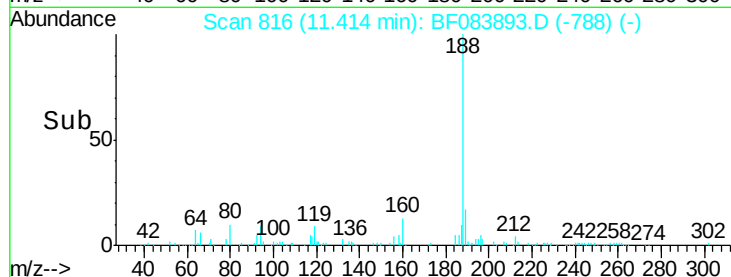
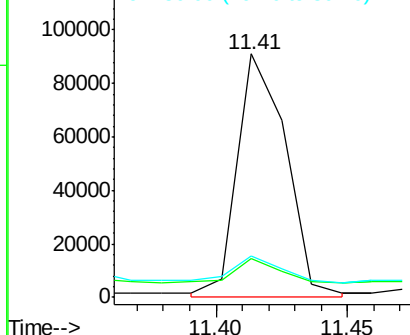
80 17.2 9.6 14.4#

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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: 124.12 ng

RT: 11.45 min Scan# 819

Delta R.T. 0.02 min

Lab File: BF083893.D

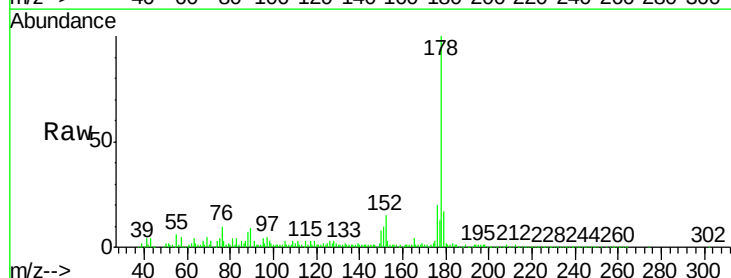
Acq: 18 Dec 2015 3:24

Tgt Ion:178 Resp: 877912
Ion Ratio Lower Upper

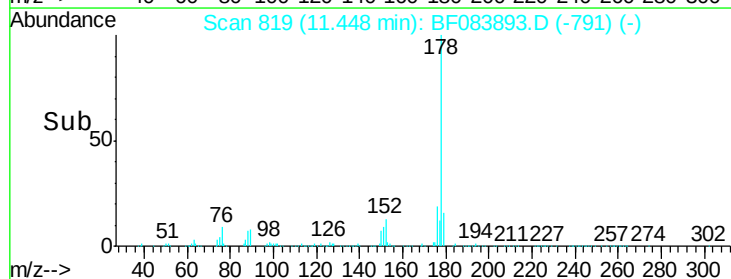
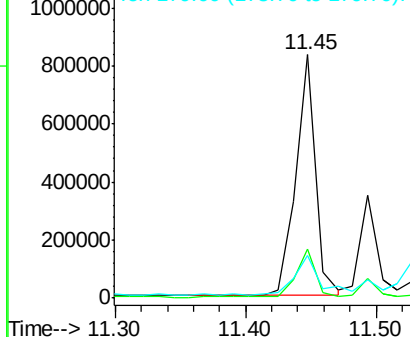
178 100

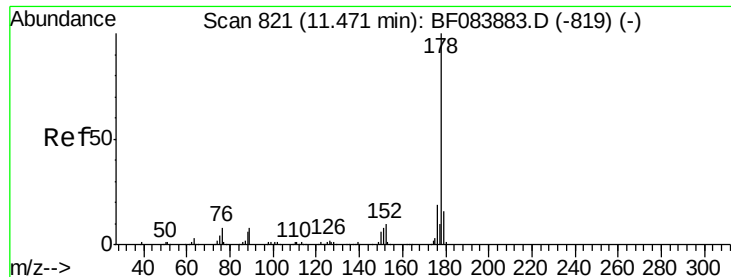
176 19.9 15.3 22.9

179 17.3 12.0 18.0



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





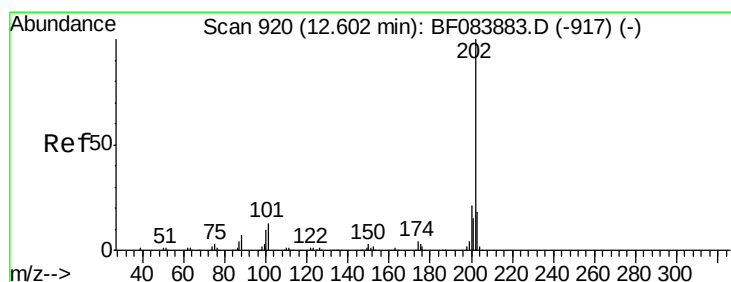
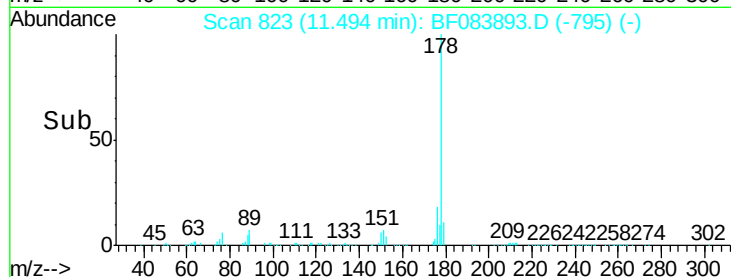
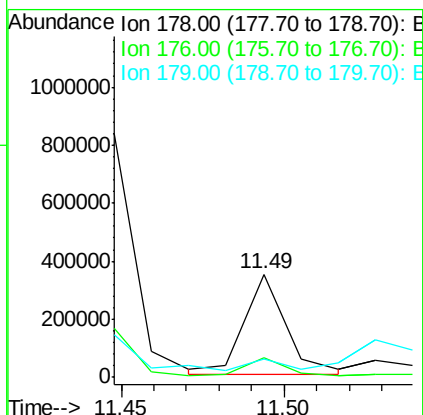
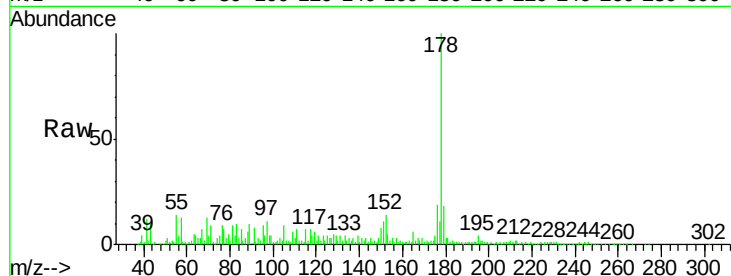
#71
 Anthracene
 Concen: 45.31 ng
 RT: 11.49 min Scan# 823
 Delta R.T. 0.02 min
 Lab File: BF083893.D
 Acq: 18 Dec 2015 3:24

Instrument :
 BNA_F
 ClientSampleId :
 K212-(8-10)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.0
179	18.0	12.5	18.7

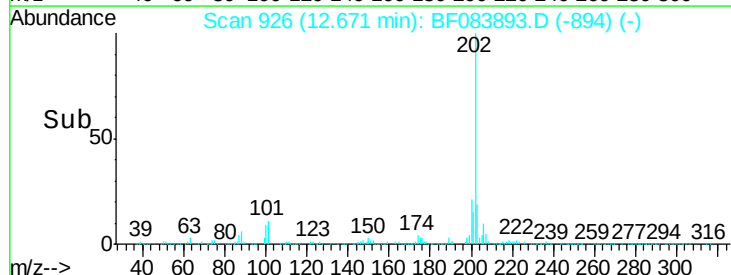
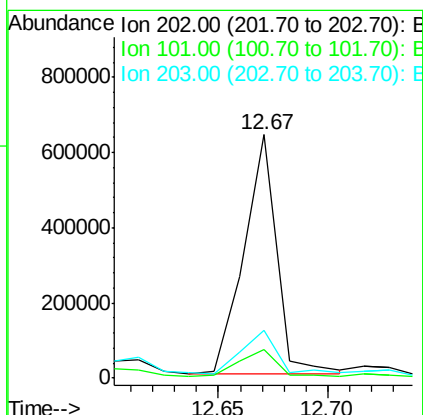
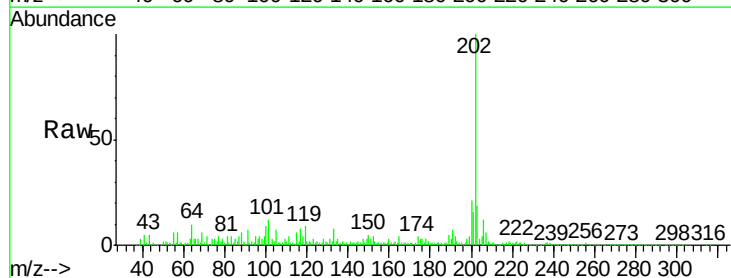
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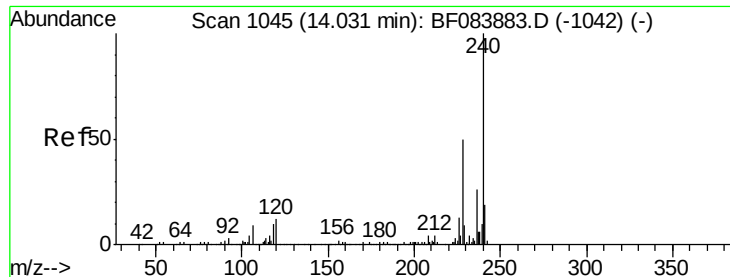
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#74
 Fluoranthene
 Concen: 93.57 ng m
 RT: 12.67 min Scan# 926
 Delta R.T. 0.07 min
 Lab File: BF083893.D
 Acq: 18 Dec 2015 3:24

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	32.8
203	19.4	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng m

RT: 14.08 min Scan# 1049

Delta R.T. 0.05 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

Instrument :

BNA_F

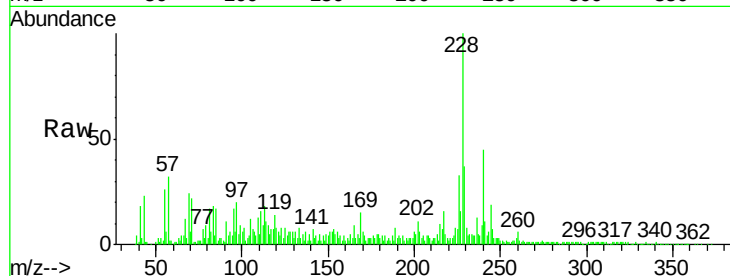
ClientSampleId :

K212-(8-10)

Tgt Ion:	240	Resp:	90356
Ion Ratio	Lower	Upper	
240	100		
120	17.4	9.5	14.3#
236	28.5	20.6	31.0

Manual Integrations
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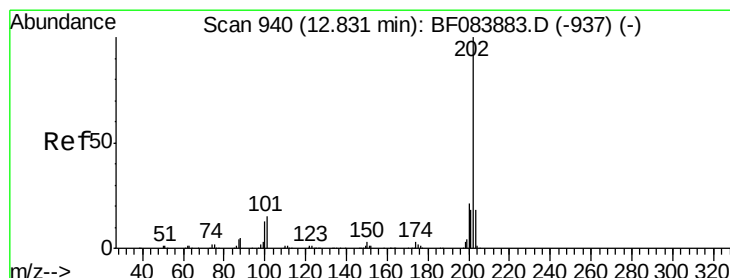
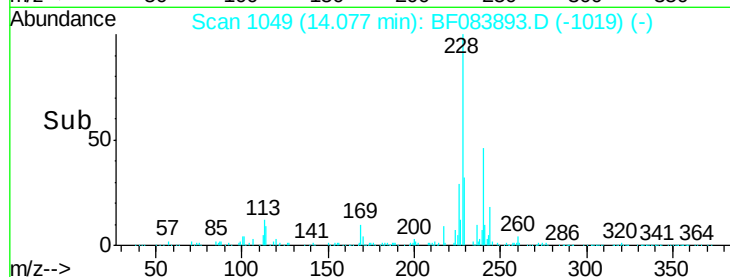
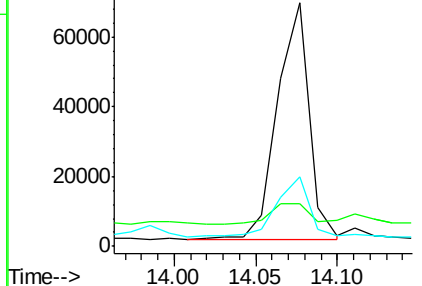
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 133.17 ng

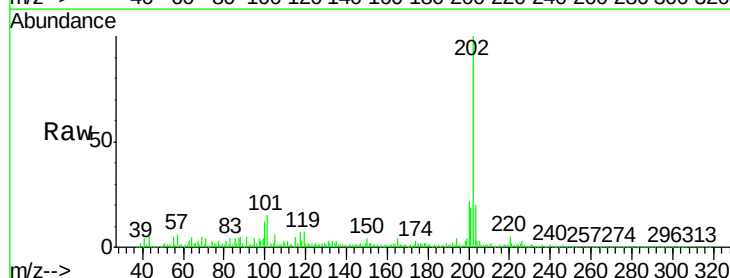
RT: 12.89 min Scan# 945

Delta R.T. 0.06 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

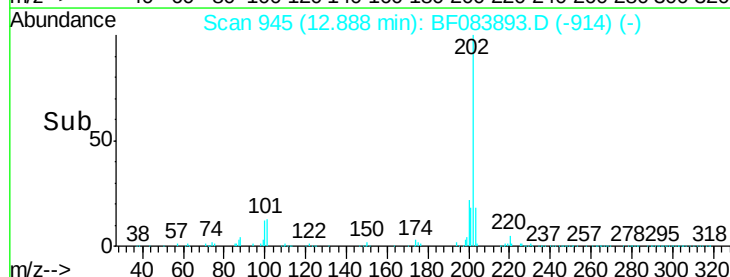
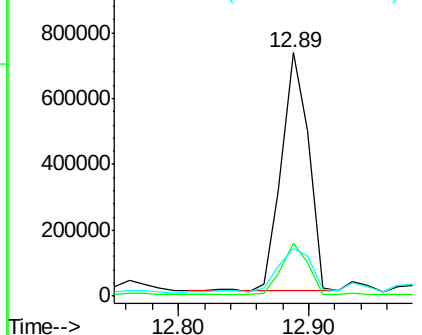
Tgt Ion:	202	Resp:	1066279
Ion Ratio	Lower	Upper	
202	100		
200	22.0	17.2	25.8
203	19.7	14.3	21.5

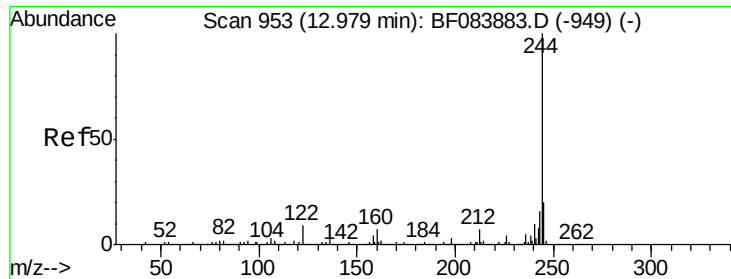


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 81.70 ng

RT: 13.01 min Scan# 956

Delta R.T. 0.03 min

Lab File: BF083893.D

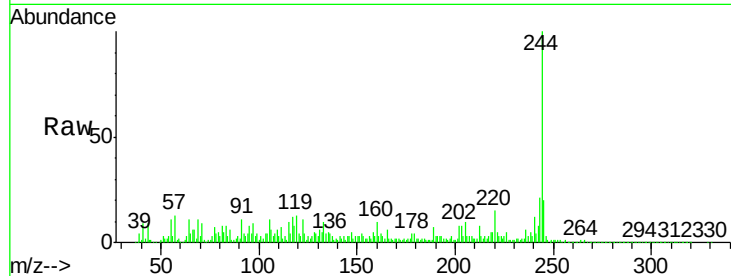
Acq: 18 Dec 2015 3:24

Instrument :

BNA_F

ClientSampleId :

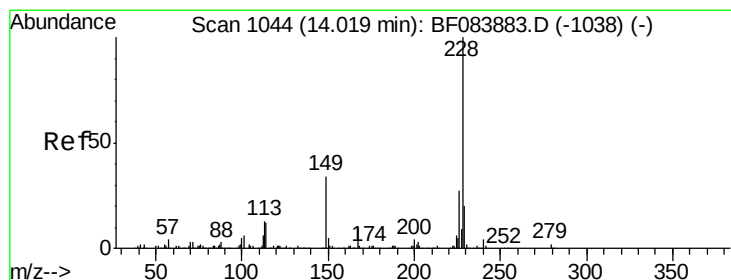
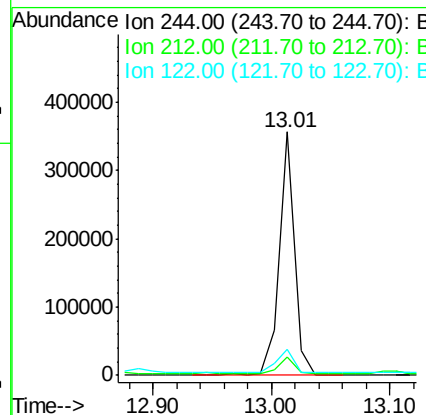
K212-(8-10)



Tgt Ion:	244	Resp:	316670
Ion Ratio	Lower	Upper	
244	100		
212	7.6	5.7	8.5
122	10.8	7.4	11.0

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 125.63 ng m

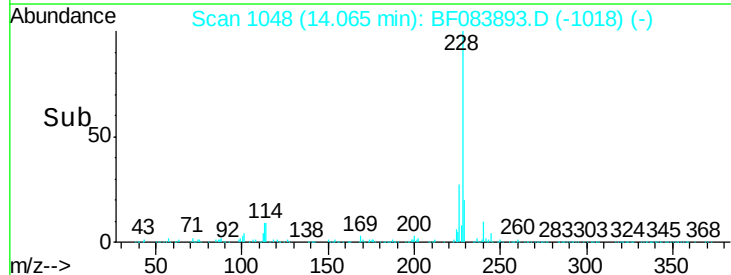
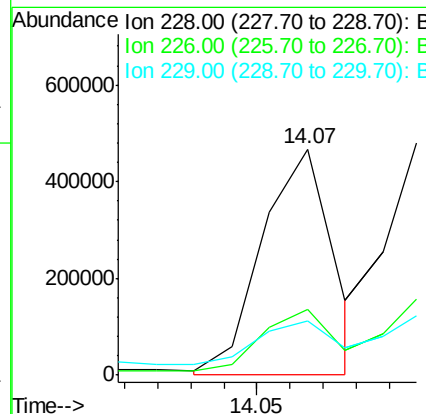
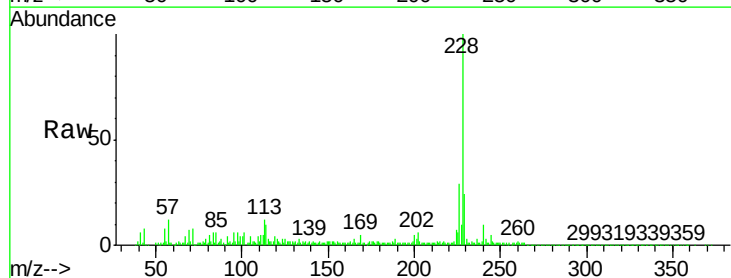
RT: 14.07 min Scan# 1048

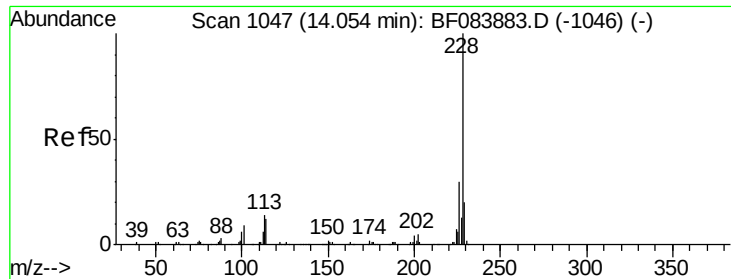
Delta R.T. 0.05 min

Lab File: BF083893.D

Acq: 18 Dec 2015 3:24

Tgt Ion:	228	Resp:	697934
Ion Ratio	Lower	Upper	
228	100		
226	29.2	21.8	32.6
229	24.2	15.8	23.8#





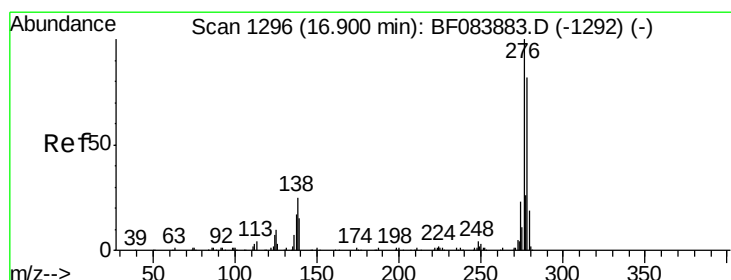
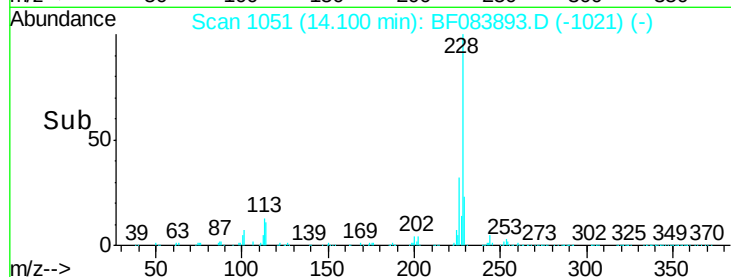
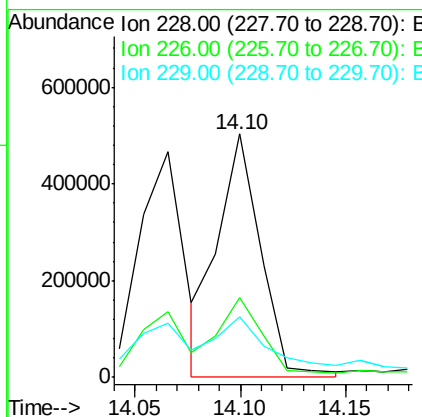
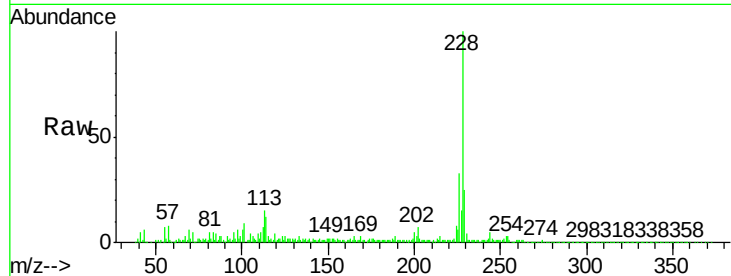
#82
Chrysene
Concen: 132.29 ng m
RT: 14.10 min Scan# 1051
Delta R.T. 0.05 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.6	24.3	36.5
229	25.0	16.1	24.1

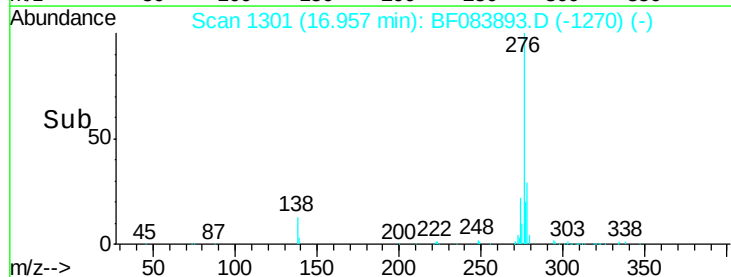
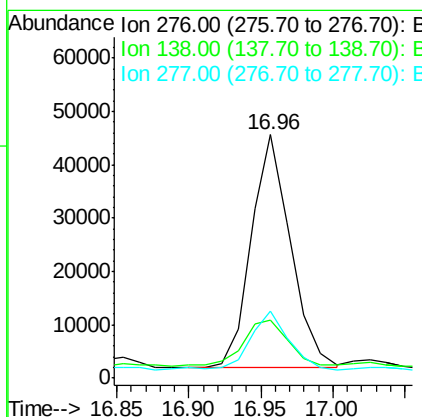
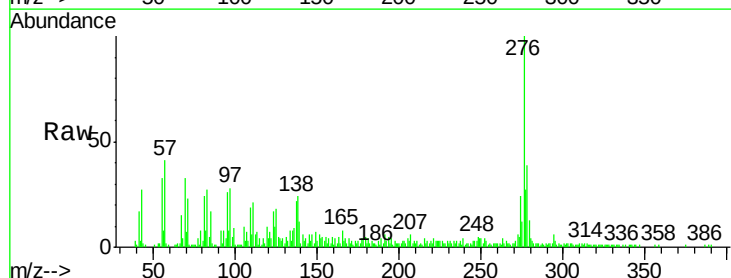
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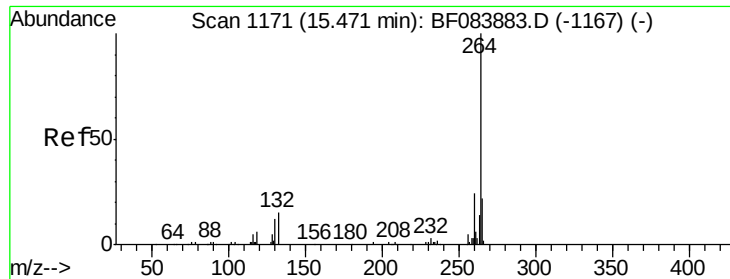
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#85
Indeno(1,2,3-cd)pyrene
Concen: 20.88 ng m
RT: 16.96 min Scan# 1301
Delta R.T. 0.06 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.9	20.6	30.8
277	25.3	20.1	30.1





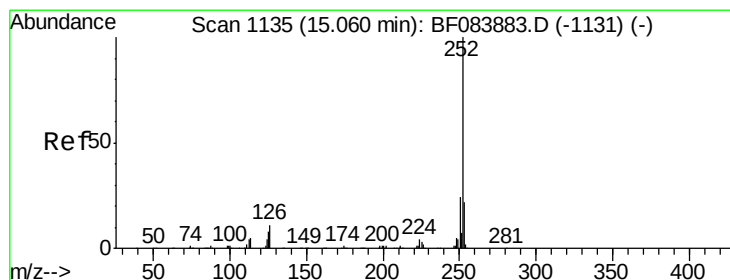
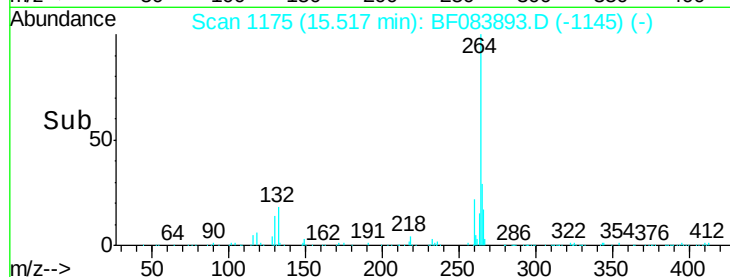
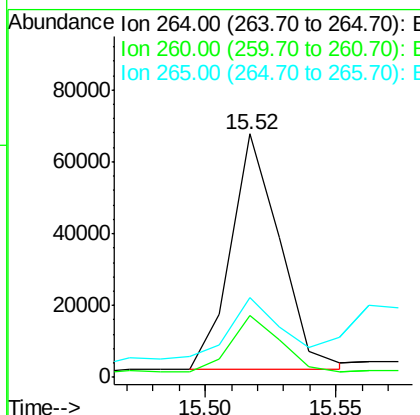
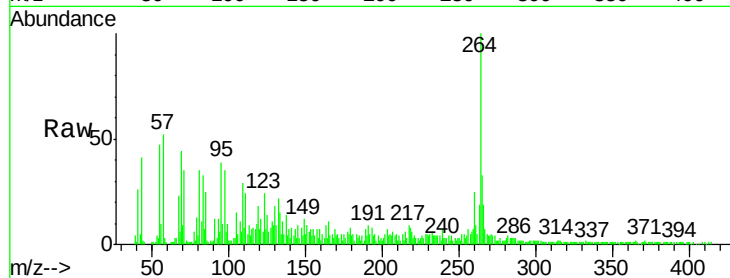
#86
 Perylene-d12
 Concen: 20.00 ng m
 RT: 15.52 min Scan# 1175
 Delta R.T. 0.05 min
 Lab File: BF083893.D
 Acq: 18 Dec 2015 3:24

Instrument :
 BNA_F
 ClientSampleId :
 K212-(8-10)

Tgt Ion	Ratio	Resp	Lower	Upper
264	100	85836		
260	25.2	19.4	29.2	
265	32.7	17.8	26.6#	

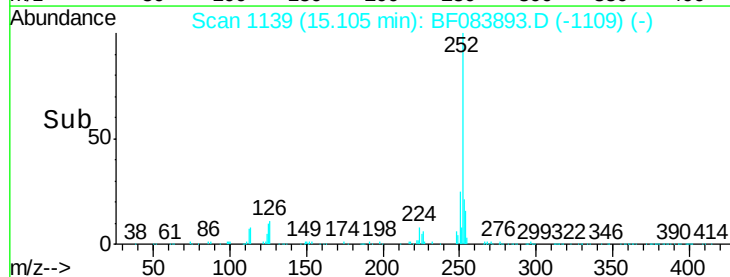
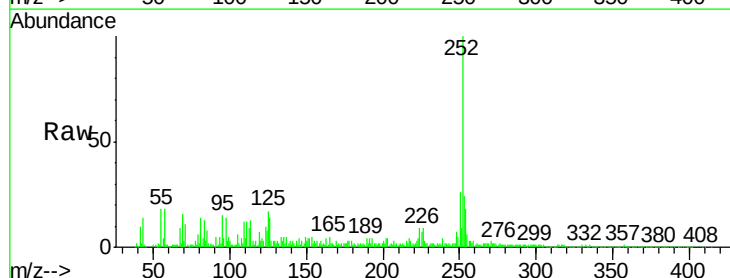
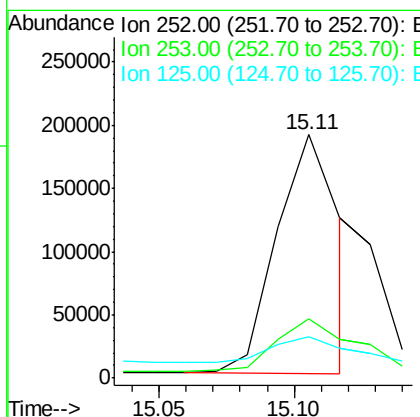
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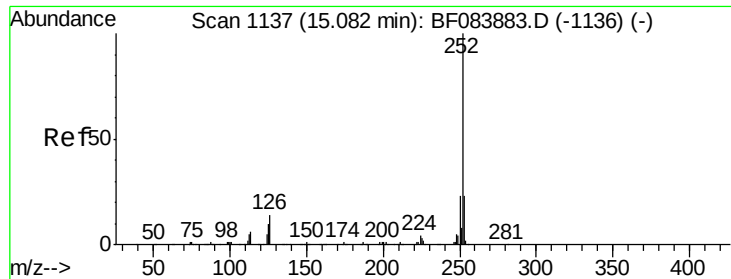
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#87
 Benzo(b)fluoranthene
 Concen: 48.73 ng m
 RT: 15.11 min Scan# 1139
 Delta R.T. 0.05 min
 Lab File: BF083893.D
 Acq: 18 Dec 2015 3:24

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	304929		
253	24.2	17.3	25.9	
125	17.1	6.5	9.7#	





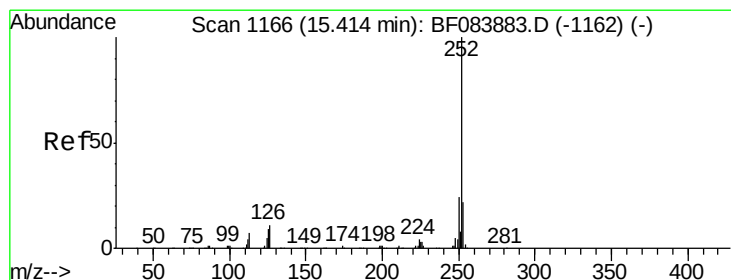
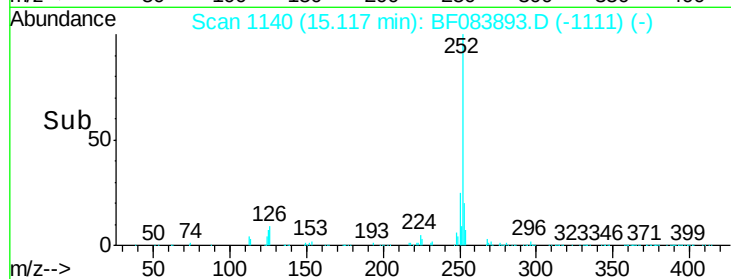
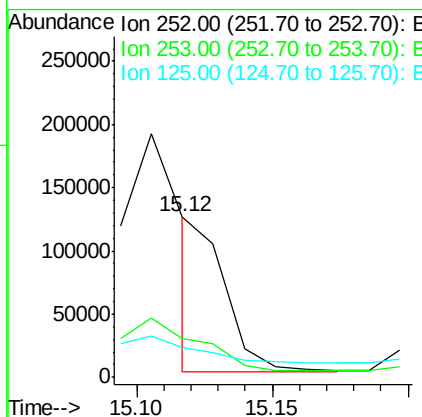
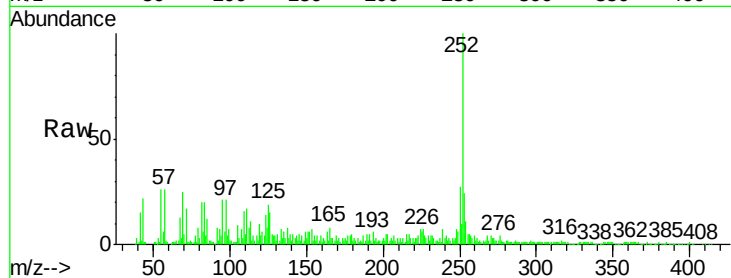
#88
Benzo(k)fluoranthene
Concen: 16.46 ng m
RT: 15.12 min Scan# 1140
Delta R.T. 0.03 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	18.1	27.1
125	18.8	9.0	13.6

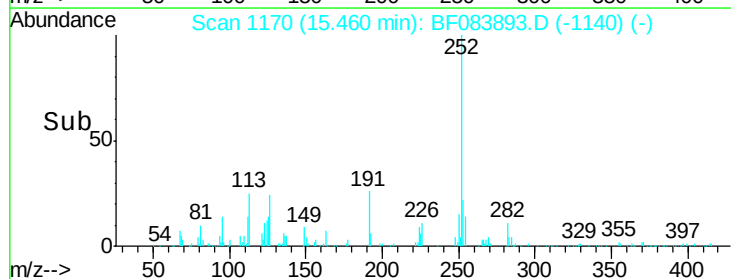
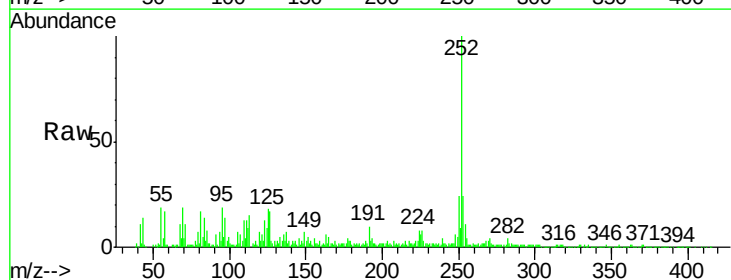
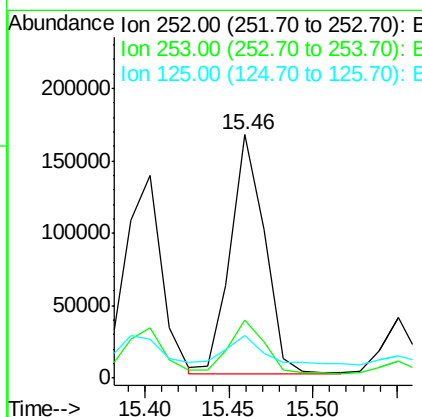
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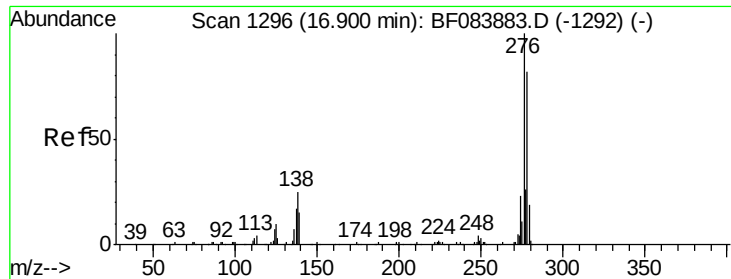
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#89
Benzo(a)pyrene
Concen: 46.23 ng m
RT: 15.46 min Scan# 1170
Delta R.T. 0.05 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.3	25.9
125	17.7	7.0	10.4





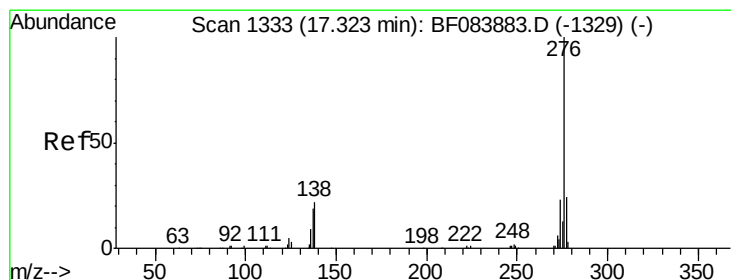
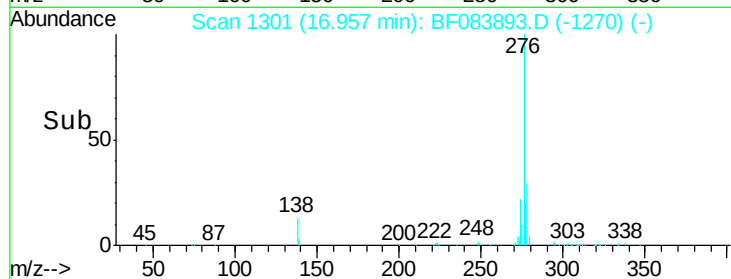
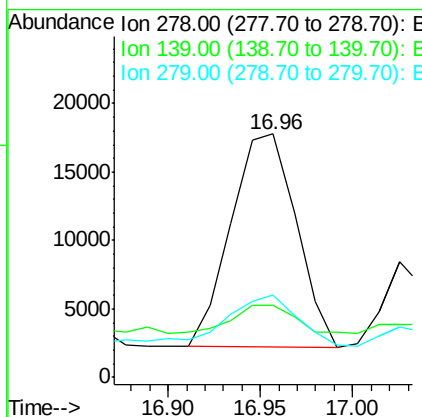
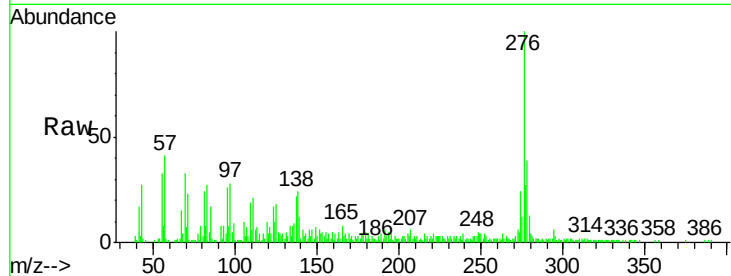
#90
Dibenzo(a,h)anthracene
Concen: 9.53 ng m
RT: 16.96 min Scan# 1301
Delta R.T. 0.06 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Instrument :
BNA_F
ClientSampleId :
K212-(8-10)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	29.9	15.0	22.4#
279	33.8	18.9	28.3#

Manual Integrations
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#91
Benzo(g,h,i)perylene
Concen: 21.90 ng
RT: 17.39 min Scan# 1339
Delta R.T. 0.07 min
Lab File: BF083893.D
Acq: 18 Dec 2015 3:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	18.8	28.2
138	23.7	17.8	26.6

