

Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
 Data File : BF083774.D
 Acq On : 14 Dec 2015 12:33
 Operator : UM/IZ
 Sample : G4761-07 5X
 Misc :
 ALS Vial : 67 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PIPE-SEDIMENT

Manual Integrations
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MMdadoda
 12/14/2015 6:24:03 PM

Quant Time: Dec 14 16:06:09 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF121315.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 14 01:30:12 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	99141	20.00	ng	0.00
21) Naphthalene-d8	8.20	136	328981	20.00	ng	-0.01
38) Acenaphthene-d10	9.96	164	137769	20.00	ng	0.00
63) Phenanthrene-d10	11.45	188	244088	20.00	ng	0.00
75) Chrysene-d12	14.11	240	162315	20.00	ng	0.03
86) Perylene-d12	15.55	264	161367	20.00	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.52	112	194664	31.68	ng	-0.01
7) Phenol-d6	6.54	99	242204	31.12	ng	0.00
23) Nitrobenzene-d5	7.47	82	118318	20.12	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	39695	28.28	ng	-0.01
44) 2-Fluorobiphenyl	9.28	172	220318	19.54	ng	-0.01
78) Terphenyl-d14	13.03	244	171142	22.68	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.22	128	133857	7.81	ng	100
37) 2-Methylnaphthalene	8.92	142	36797	3.42	ng	96
49) Dimethylphthalate	9.66	163	43434	4.04	ng	99
51) Acenaphthene	10.00	154	292426	31.90	ng	99
54) Dibenzofuran	10.16	168	91090	7.50	ng	# 90
57) Fluorene	10.50	166	195831	20.47	ng	99
70) Phenanthrene	11.48	178	2655452	204.79	ng	97
71) Anthracene	11.52	178	1036671	76.98	ng	98
72) Carbazole	11.66	167	764493	60.93	ng	# 96
74) Fluoranthene	12.68	202	5232399	390.53	ng	96
77) Pyrene	12.91	202	4570230m	356.24	ng	
80) Benzo(a)anthracene	14.10	228	3223856	349.29	ng	# 93
82) Chrysene	14.13	228	2480087	275.49	ng	# 92
85) Indeno(1,2,3-cd)pyrene	17.00	276	930417	105.23	ng	# 100
87) Benzo(b)fluoranthene	15.14	252	1743780m	169.39	ng	
88) Benzo(k)fluoranthene	15.14	252	1800088m	192.97	ng	
89) Benzo(a)pyrene	15.51	252	1800359	195.98	ng	94
90) Dibenzo(a,h)anthracene	17.01	278	377612	41.34	ng	# 85
91) Benzo(a,h,i)perylene	17.45	276	869902	92.64	ng	99

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

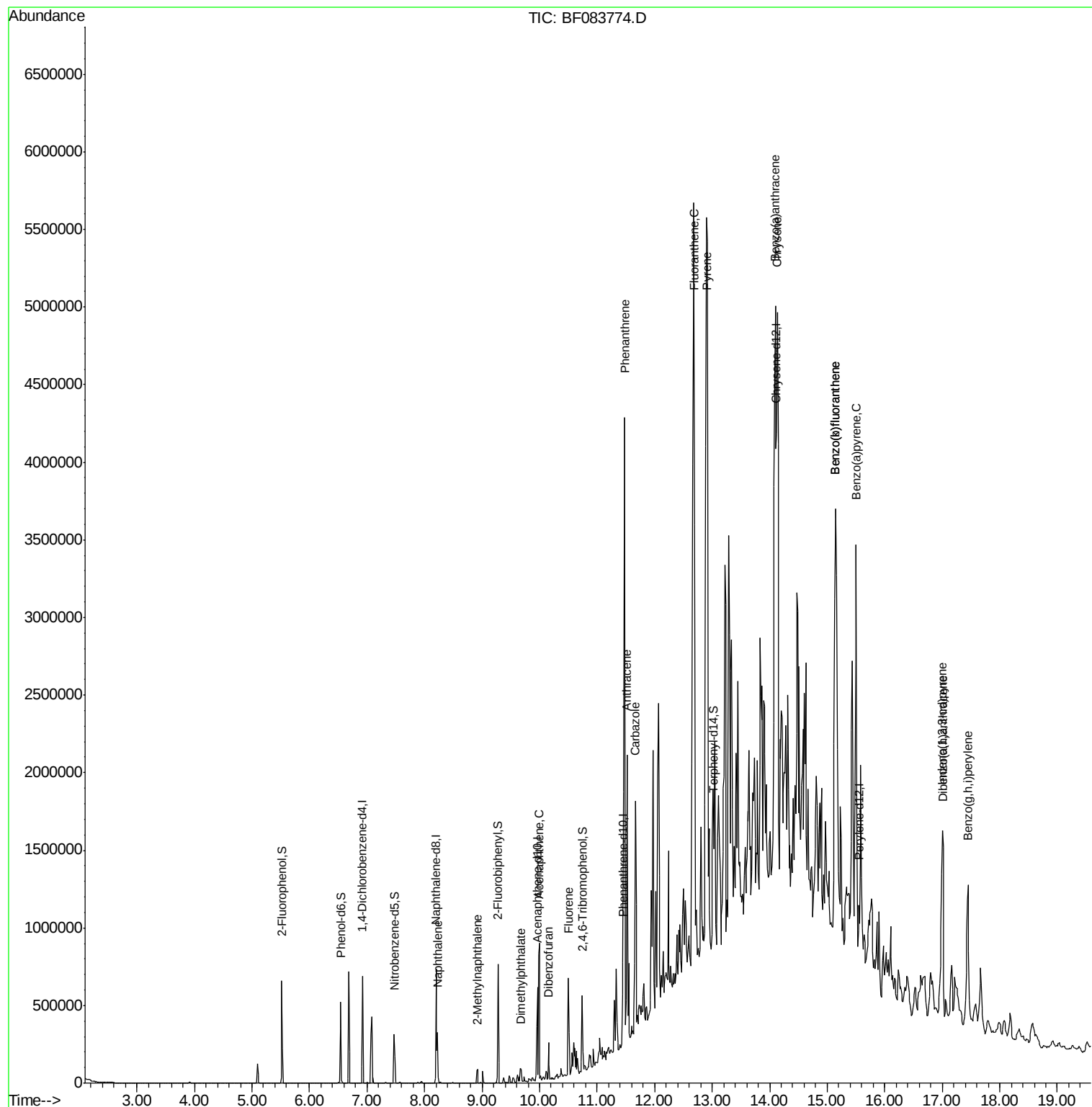
Data Path : Z:\HPCHEM1\BNA F\DATA\BF121315\
Data File : BF083774.D
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ALS Vial : 67 Sample Multiplier: 1

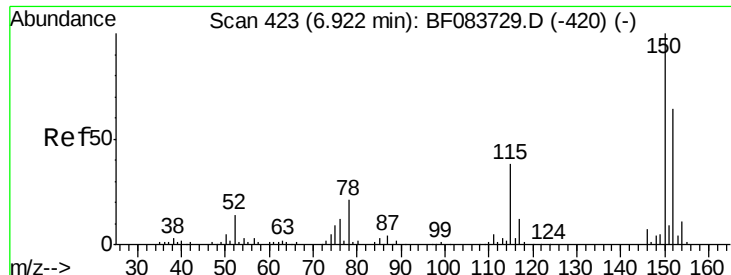
Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

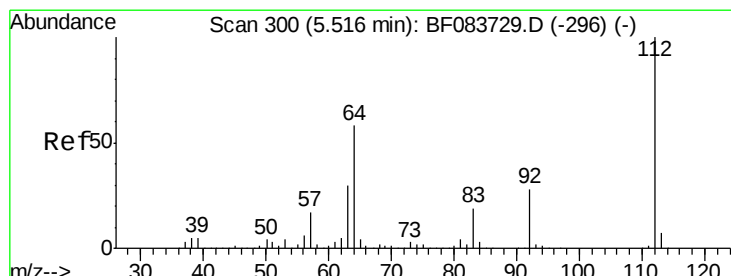
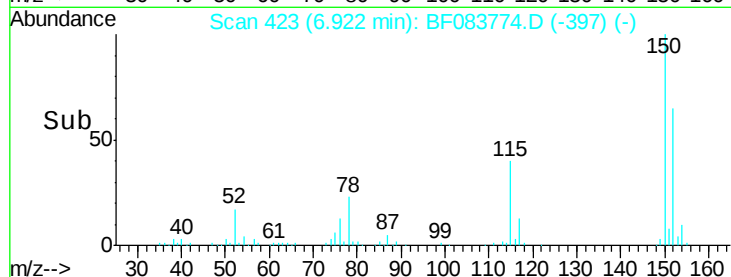
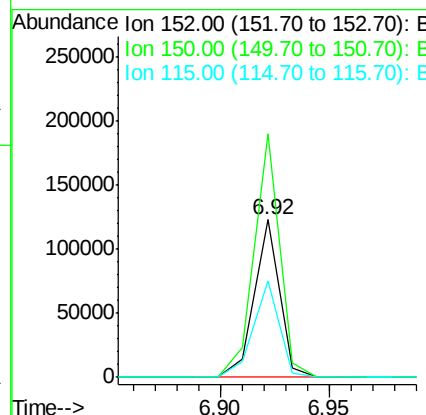
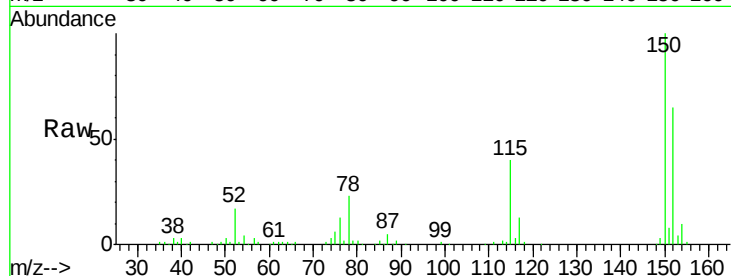
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.92 min Scan# 423
Delta R.T. 0.00 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.5	126.5	189.7
115	61.5	52.3	78.5

Manual Integrations
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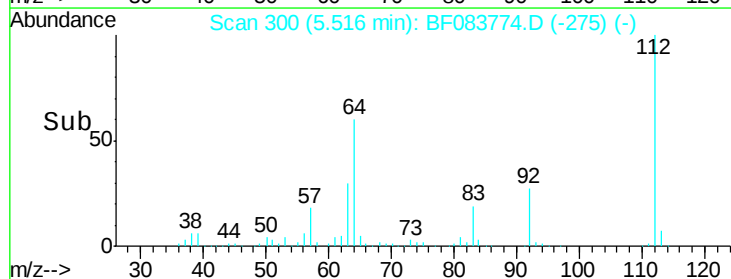
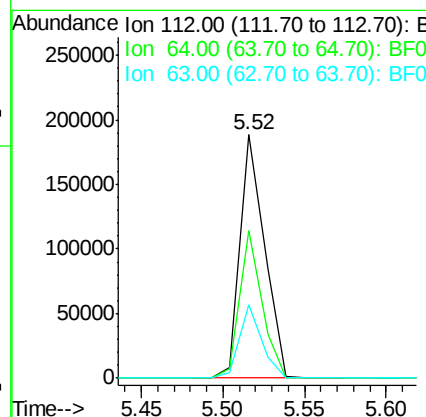
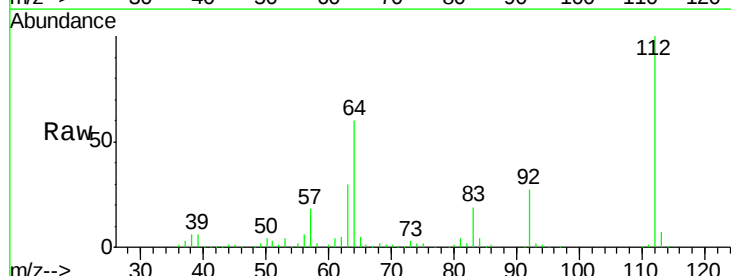
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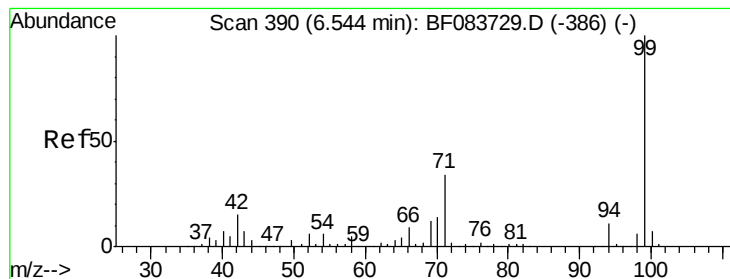


#5

2-Fluorophenol
Concen: 31.68 ng
RT: 5.52 min Scan# 300
Delta R.T. -0.01 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Tgt Ion	Ratio	Lower	Upper
112	100		
64	60.4	50.5	75.7
63	30.3	25.8	38.6





#7

Phenol-d6

Concen: 31.12 ng

RT: 6.54 min Scan# 390

Delta R.T. 0.00 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

Instrument :

BNA_F

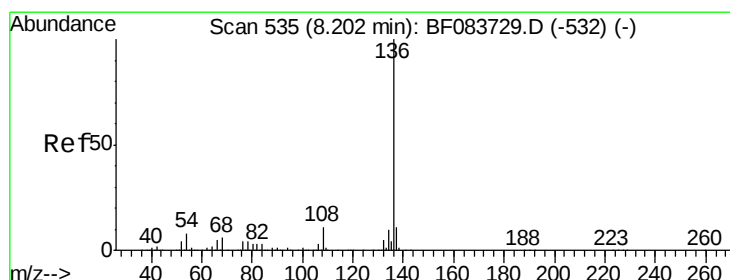
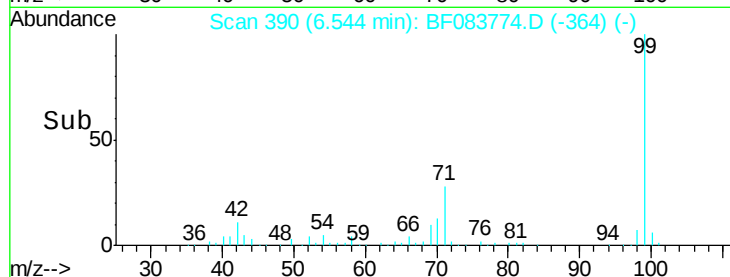
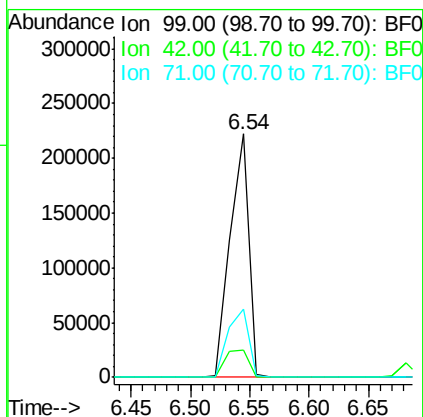
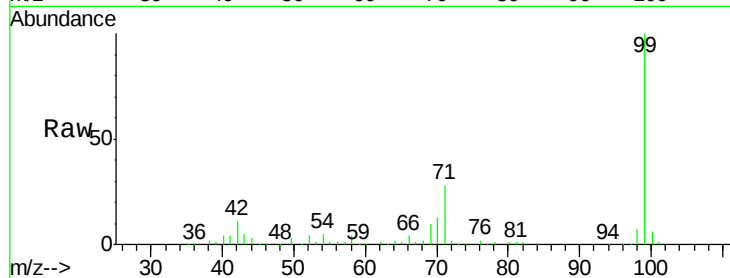
ClientSampleId :

PIPE-SEDIMENT

Tot Ion:	99	Resp:	242204
Ion Ratio	Lower	Upper	
99	100		
42	11.0	17.3	25.9#
71	28.1	26.6	40.0

Manual Integrations
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#21

Naphthalene-d8

Concen: 20.00 ng

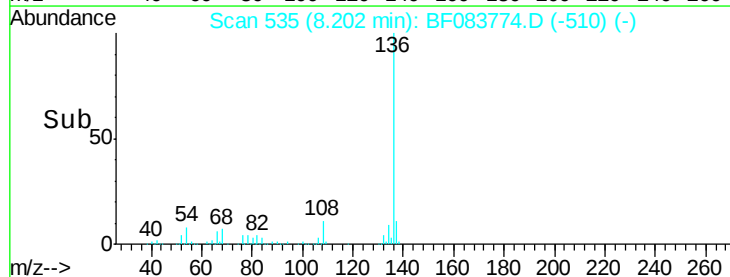
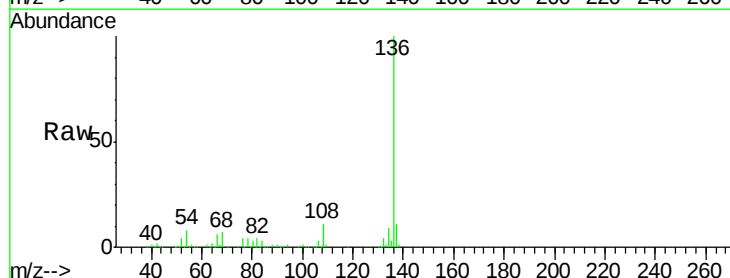
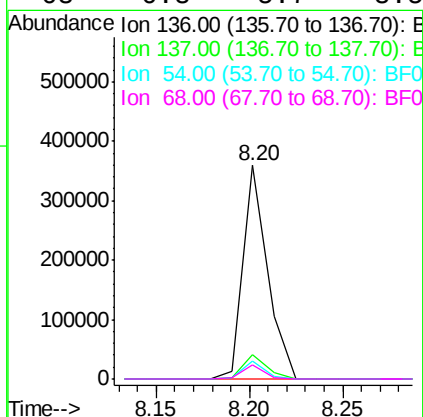
RT: 8.20 min Scan# 535

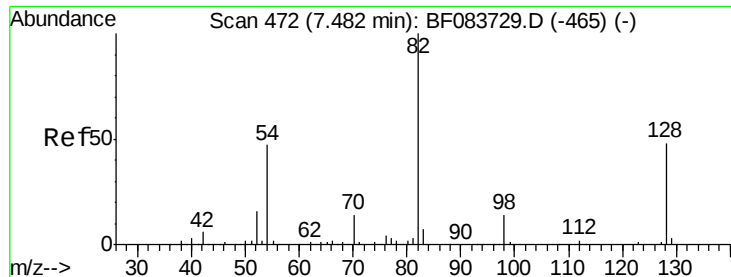
Delta R.T. -0.01 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

Tgt Ion:	136	Resp:	328981
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.7	13.1
54	8.2	7.8	11.6
68	6.8	5.7	8.5





#23

Nitrobenzene-d5

Concen: 20.12 ng

RT: 7.47 min Scan# 471

Delta R.T. -0.01 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

Instrument :

BNA_F

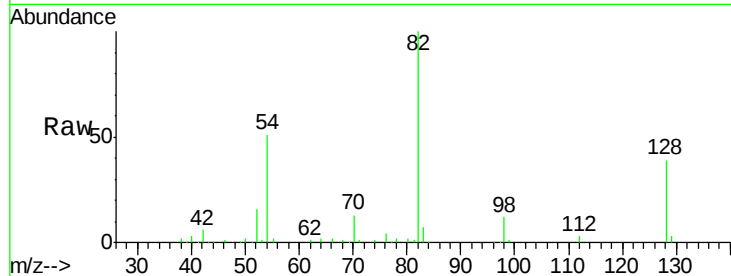
ClientSampleId :

PIPE-SEDIMENT

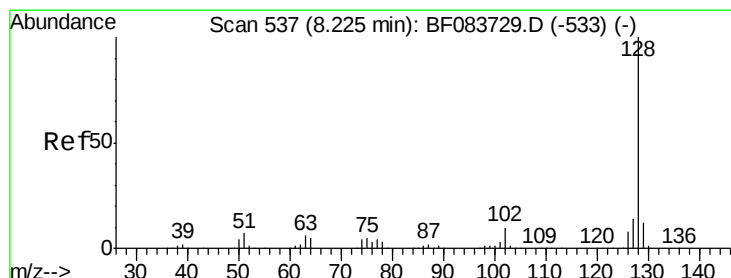
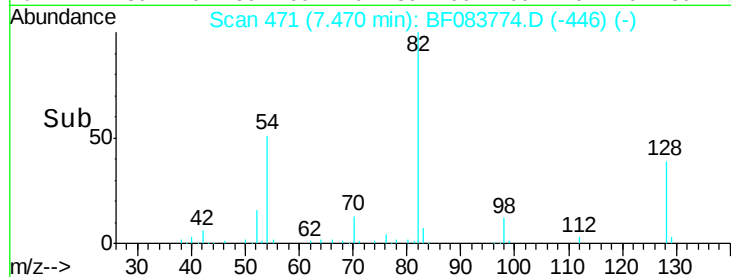
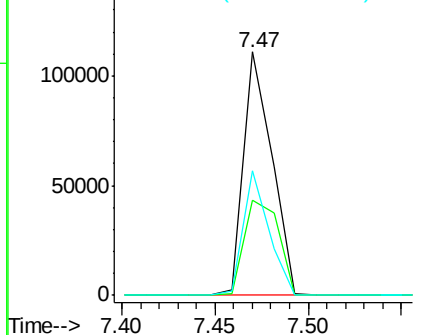
Tot Ion:	82	Resp:	118318
Ion Ratio		Lower	Upper
82	100		
128	38.8	30.7	46.1
54	51.4	42.5	63.7

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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: 7.81 ng

RT: 8.22 min Scan# 537

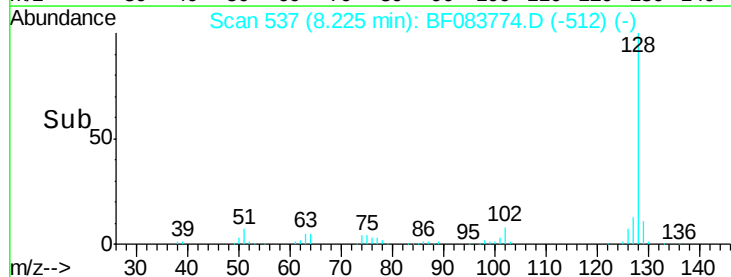
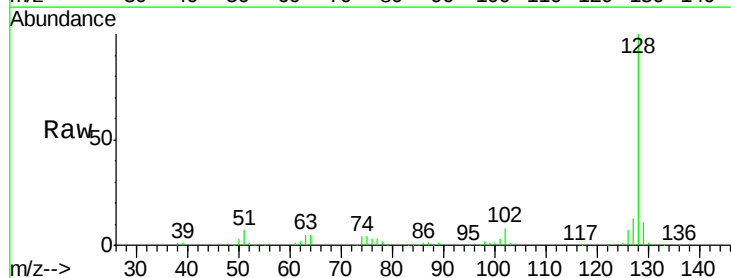
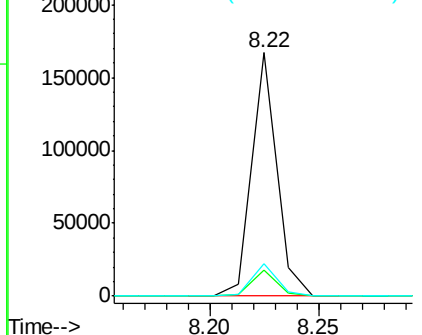
Delta R.T. -0.01 min

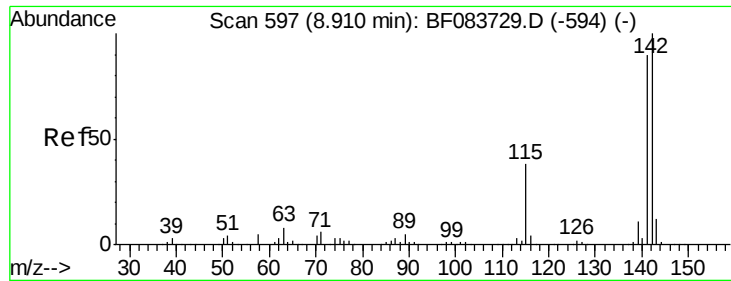
Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

Tgt Ion:	128	Resp:	133857
Ion Ratio		Lower	Upper
128	100		
129	10.9	8.6	13.0
127	13.2	10.6	16.0

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





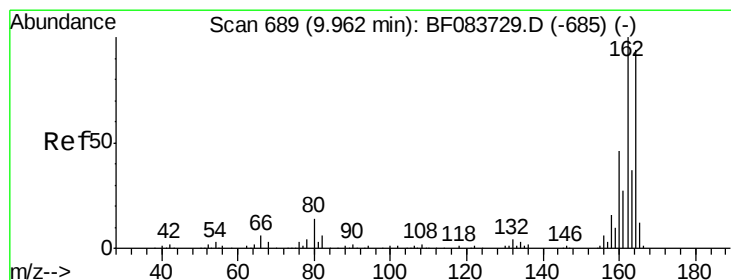
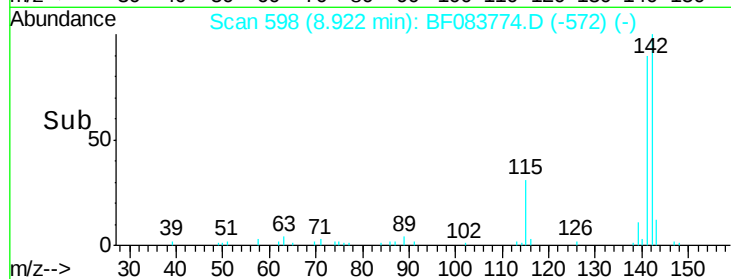
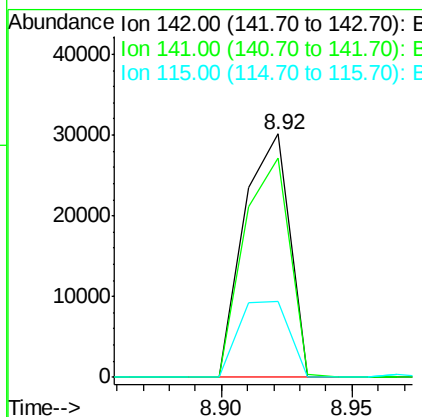
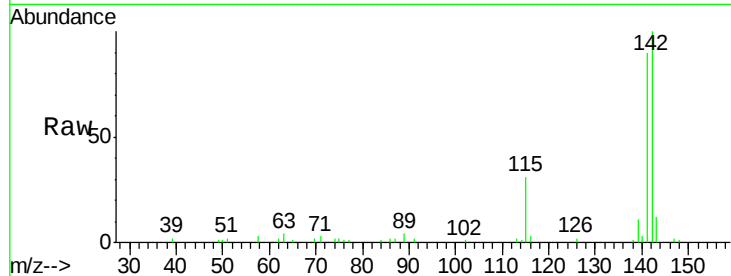
#37
2-Methylnaphthalene
Concen: 3.42 ng
RT: 8.92 min Scan# 598
Delta R.T. 0.00 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.0	70.3	105.5
115	31.3	29.2	43.8

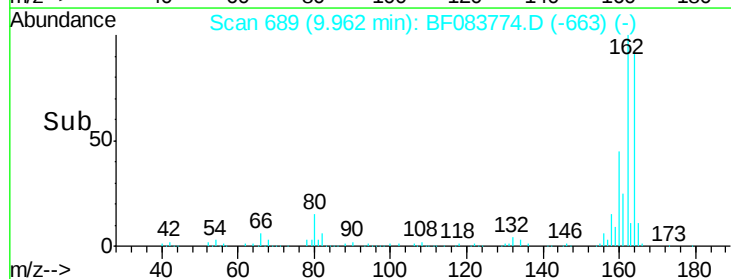
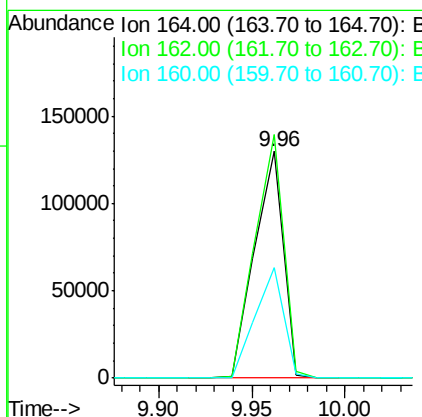
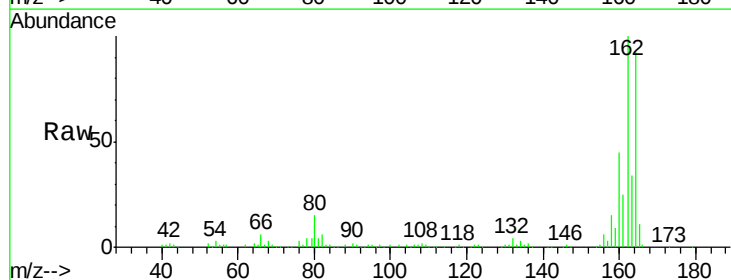
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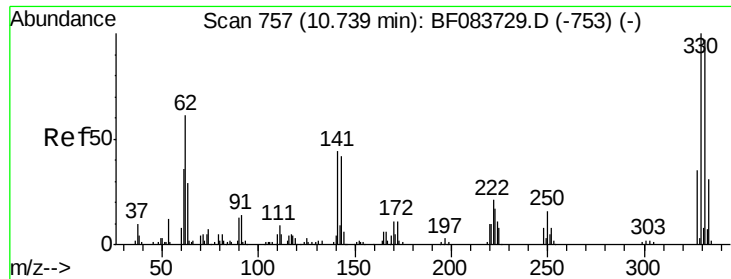
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.96 min Scan# 689
Delta R.T. 0.00 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Tgt Ion	Ratio	Lower	Upper
164	100		
162	107.3	78.8	118.2
160	48.7	33.4	50.2





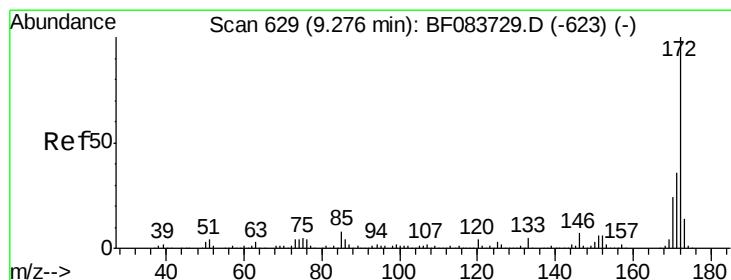
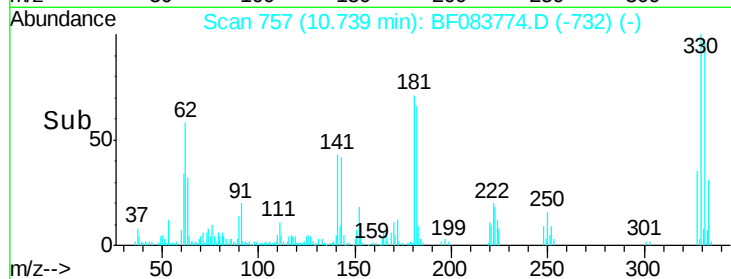
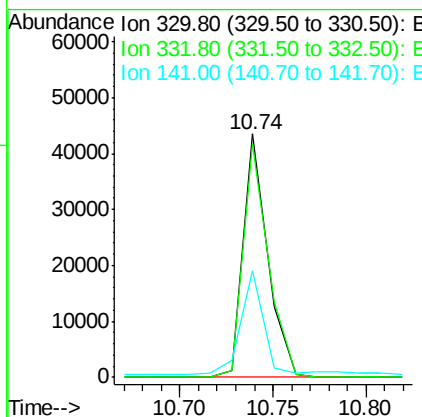
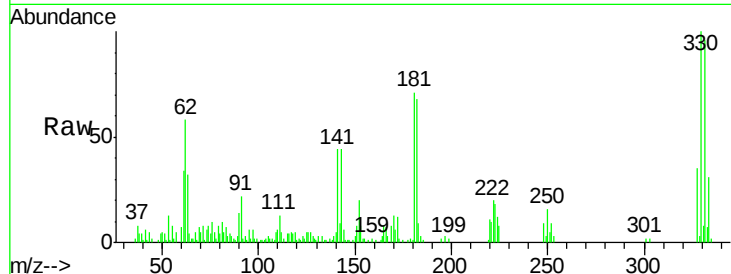
#41
 2,4,6-Tribromophenol
 Concen: 28.28 ng
 RT: 10.74 min Scan# 757
 Delta R.T. -0.01 min
 Lab File: BF083774.D
 Acq: 14 Dec 2015 12:33

Instrument :
 BNA_F
 ClientSampleId :
 PIPE-SEDIMENT

Tot Ion	Ratio	Resp Lower	Resp Upper
330	100		
332	98.2	0.0	0.0#
141	42.0	0.0	0.0#

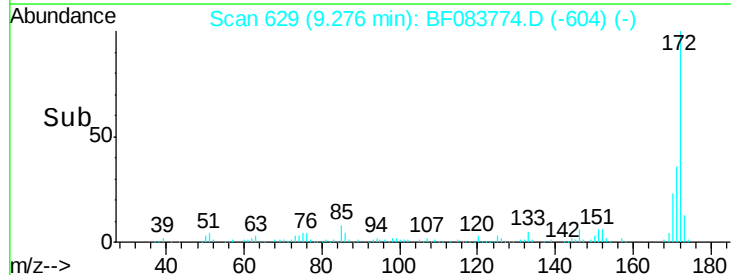
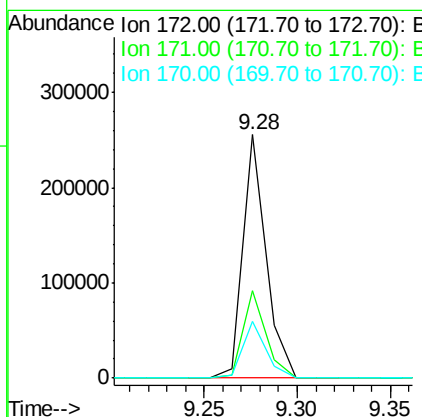
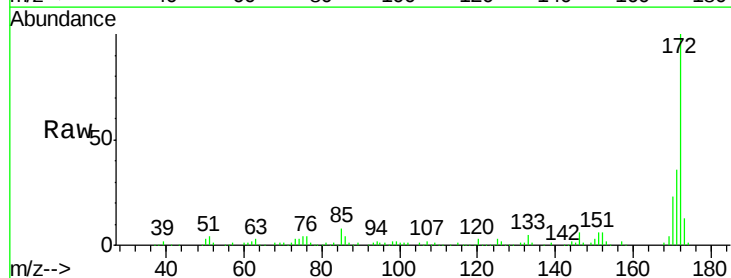
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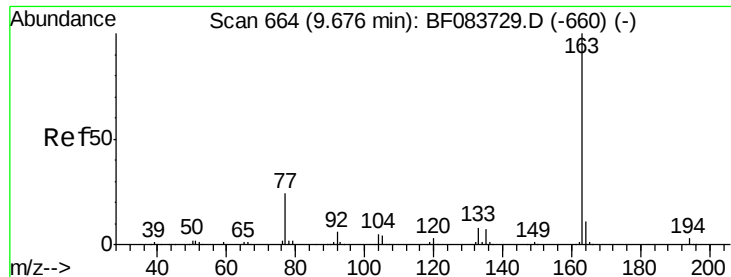
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#44
 2-Fluorobiphenyl
 Concen: 19.54 ng
 RT: 9.28 min Scan# 629
 Delta R.T. -0.01 min
 Lab File: BF083774.D
 Acq: 14 Dec 2015 12:33

Tgt Ion	Ratio	Resp Lower	Resp Upper
172	100		
171	35.9	28.6	42.8
170	23.4	19.4	29.0





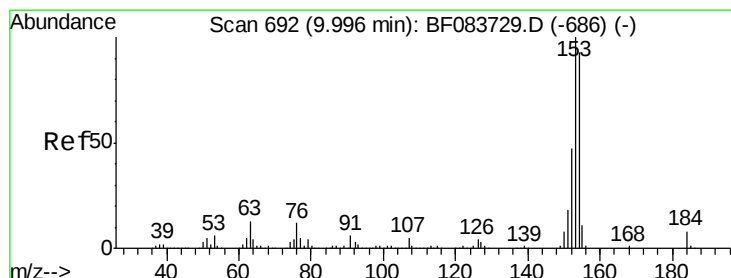
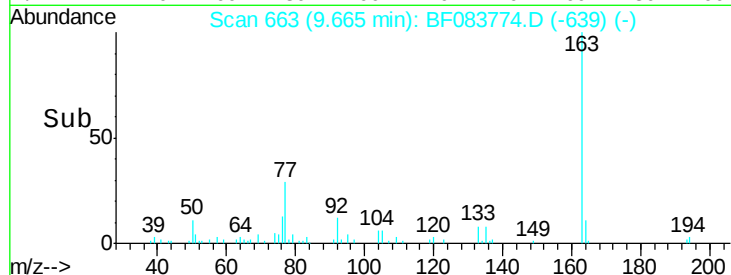
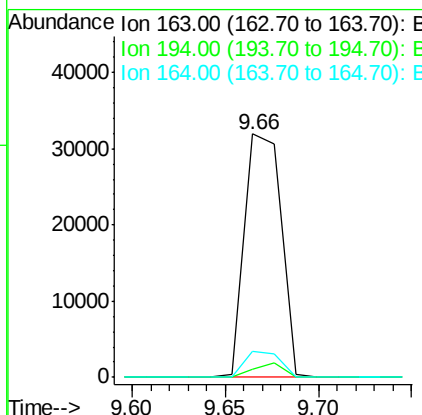
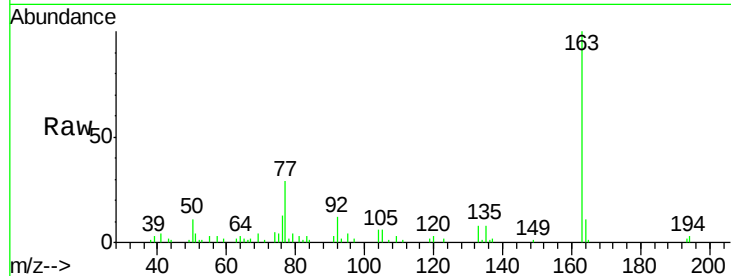
#49
Dimethylphthalate
Concen: 4.04 ng
RT: 9.66 min Scan# 663
Delta R.T. -0.02 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.1	2.8	4.2
164	10.5	8.6	13.0

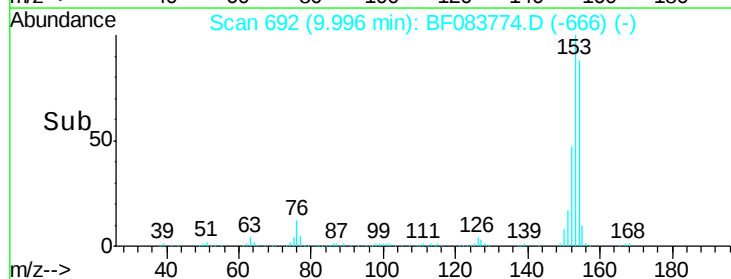
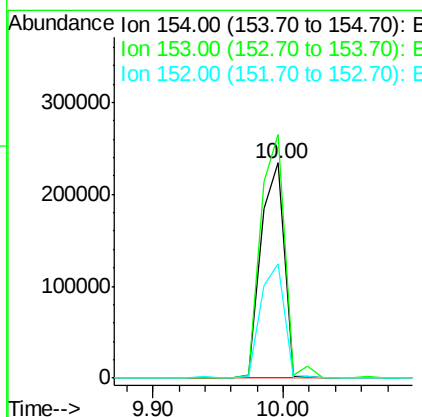
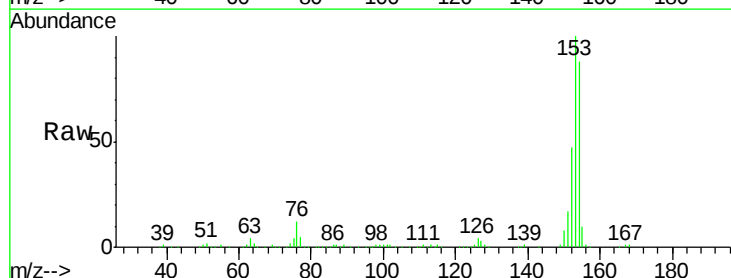
Manual Integrations
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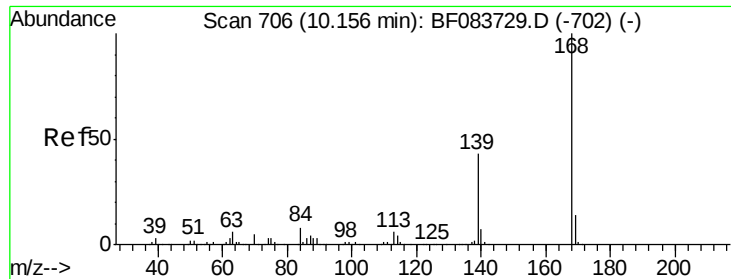
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12/14/2015 6:24:03 PM



#51
Acenaphthene
Concen: 31.90 ng
RT: 10.00 min Scan# 692
Delta R.T. 0.00 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Tgt Ion	Ratio	Lower	Upper
154	100		
153	113.2	91.4	137.0
152	53.3	43.4	65.2





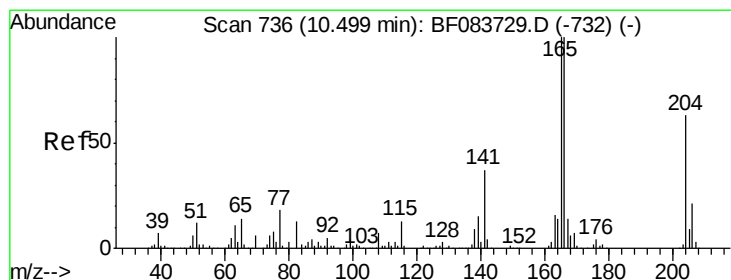
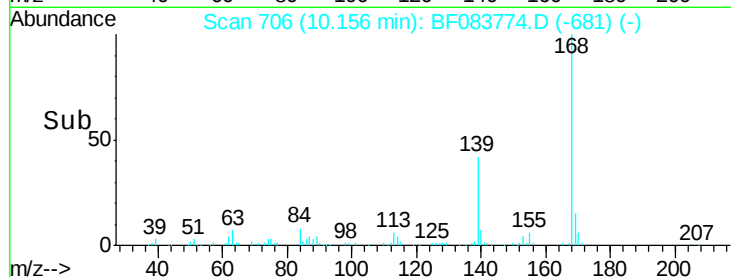
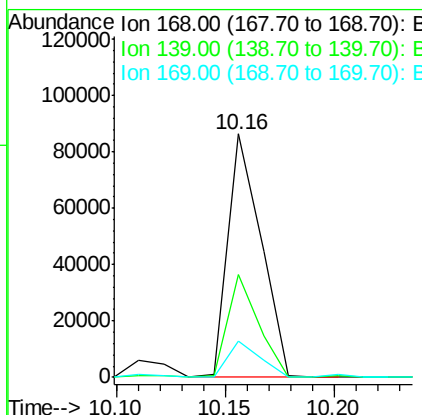
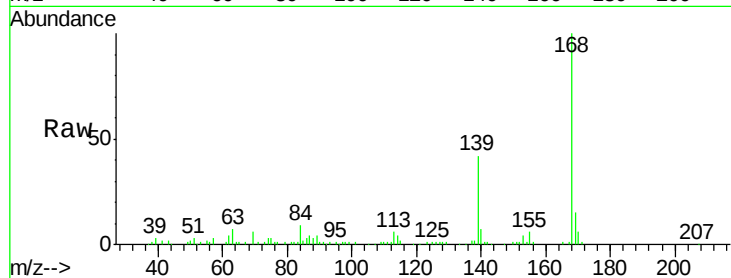
#54
Dibenzofuran
Concen: 7.50 ng
RT: 10.16 min Scan# 706
Delta R.T. -0.01 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Tot Ion	Ratio	Lower	Upper
168	100		
139	42.2	28.0	42.0#
169	14.9	10.8	16.2

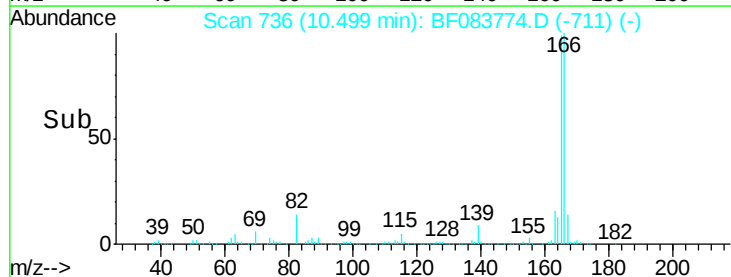
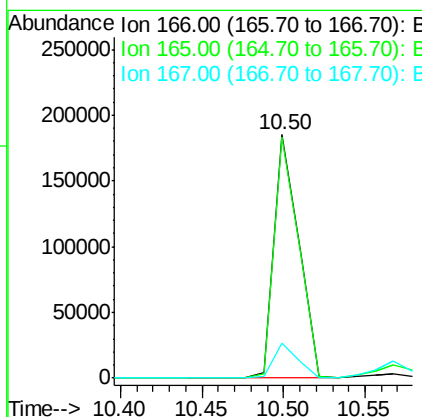
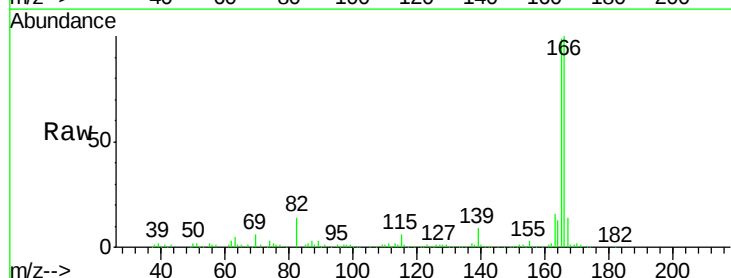
Manual Integrations
APPROVED

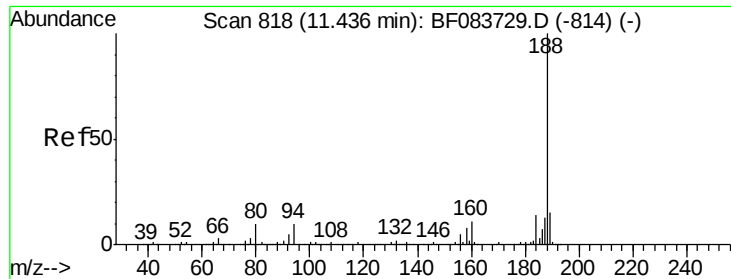
MMdadoda
12/14/2015 6:24:03 PM



#57
Fluorene
Concen: 20.47 ng
RT: 10.50 min Scan# 736
Delta R.T. -0.01 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.0	80.0	120.0
167	14.3	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.45 min Scan# 819

Delta R.T. 0.00 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENT

Tot Ion:188 Resp: 244088

Ion Ratio Lower Upper

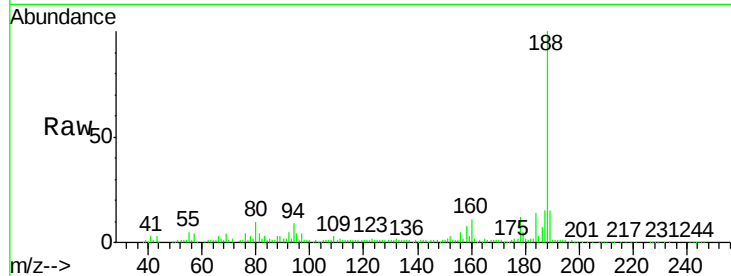
188 100

94 8.8 9.4 14.2#

80 9.8 10.6 16.0#

Manual Integrations
APPROVED

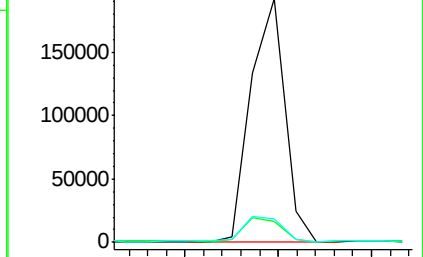
MMdadoda
12/14/2015 6:24:03 PM



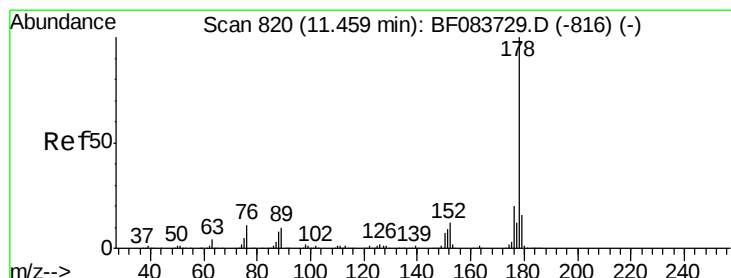
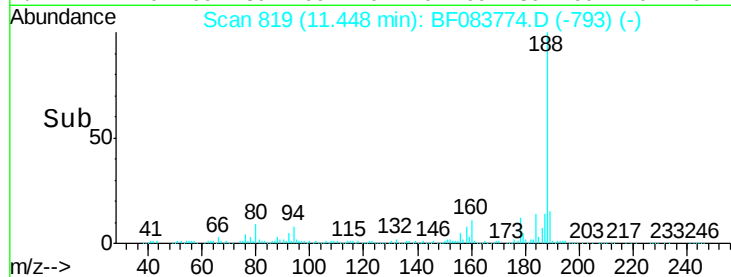
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



Time-->



#70

Phenanthrene

Concen: 204.79 ng

RT: 11.48 min Scan# 822

Delta R.T. 0.01 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

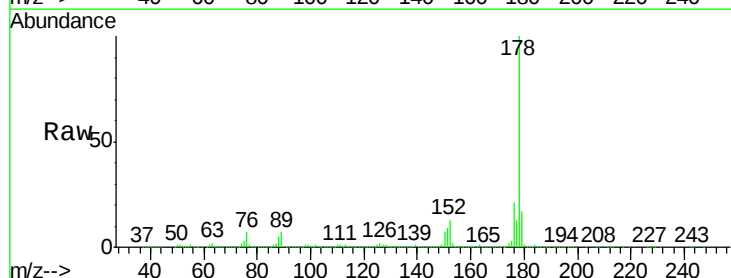
Tgt Ion:178 Resp: 2655452

Ion Ratio Lower Upper

178 100

176 21.1 15.7 23.5

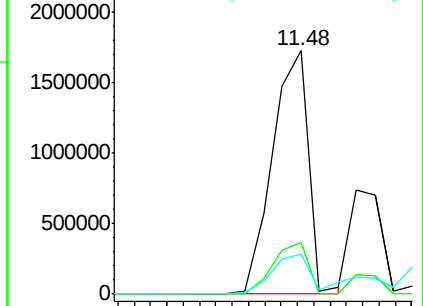
179 16.6 12.2 18.4



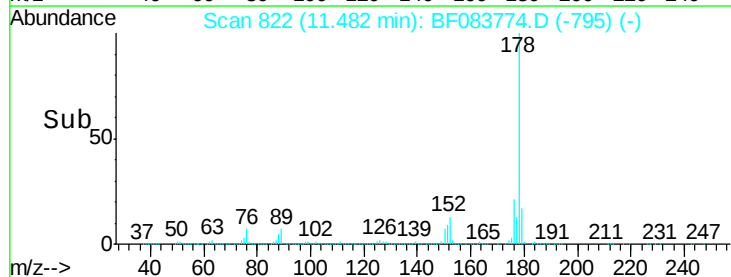
Abundance Ion 178.00 (177.70 to 178.70): E

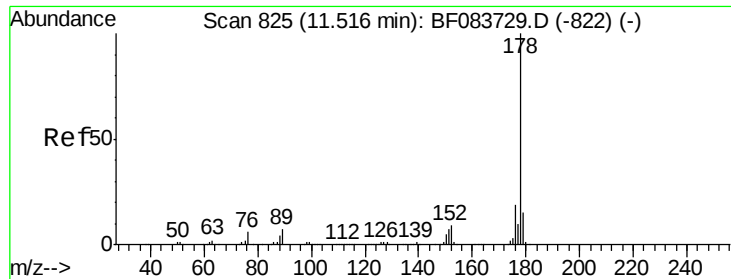
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





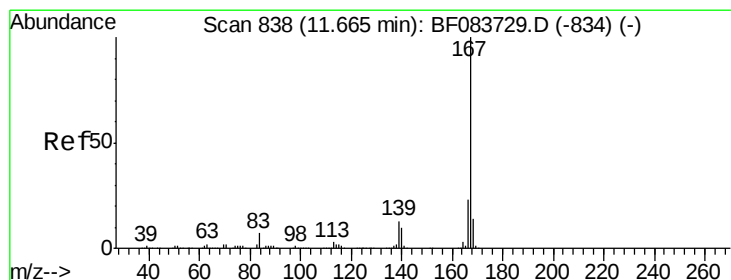
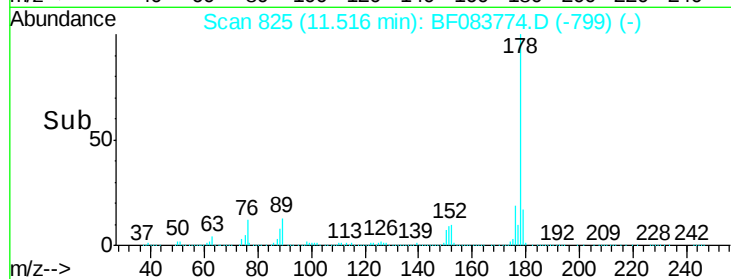
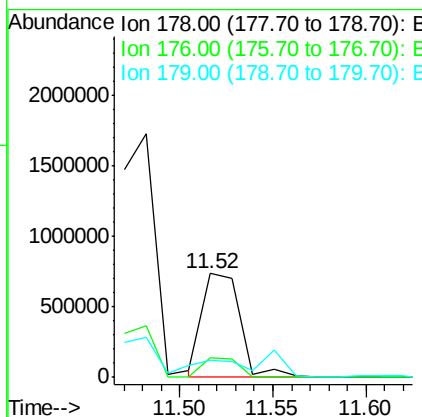
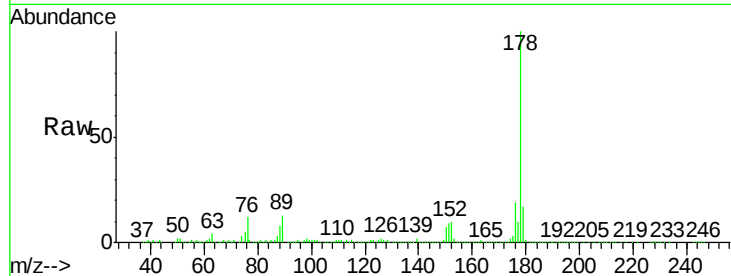
#71
 Anthracene
 Concen: 76.98 ng
 RT: 11.52 min Scan# 825
 Delta R.T. 0.00 min
 Lab File: BF083774.D
 Acq: 14 Dec 2015 12:33

Instrument :
 BNA_F
 ClientSampleId :
 PIPE-SEDIMENT

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	16.9	12.6	18.8

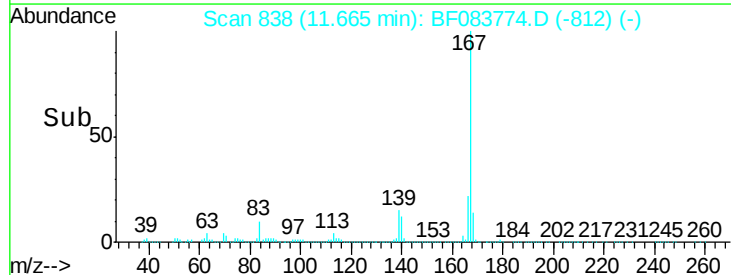
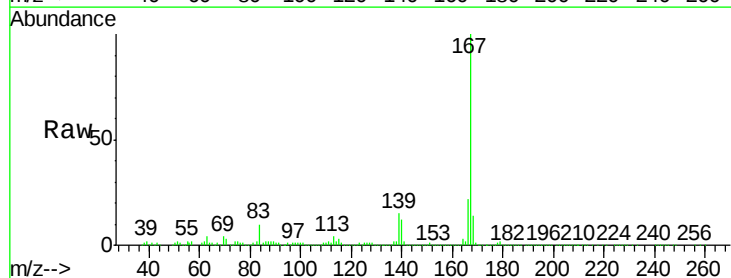
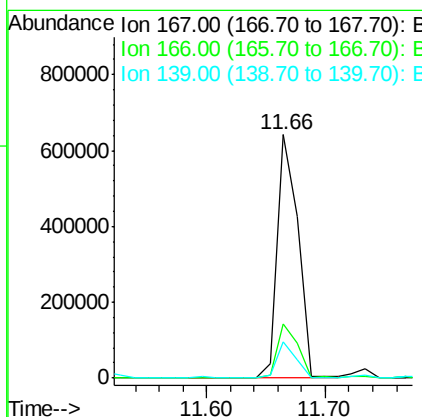
Manual Integrations
 APPROVED

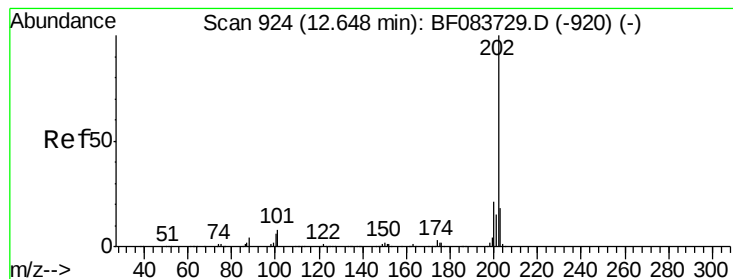
MMdadoda
 12/14/2015 6:24:03 PM



#72
 Carbazole
 Concen: 60.93 ng
 RT: 11.66 min Scan# 838
 Delta R.T. 0.00 min
 Lab File: BF083774.D
 Acq: 14 Dec 2015 12:33

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.2	25.8
139	14.9	9.3	13.9





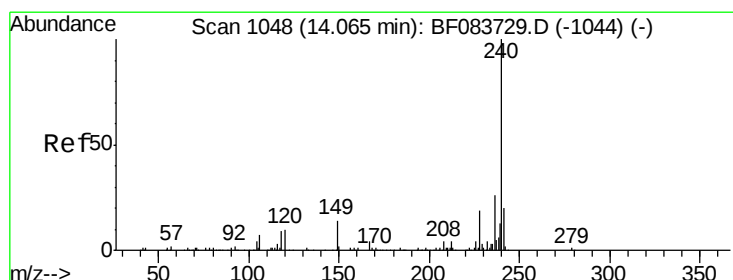
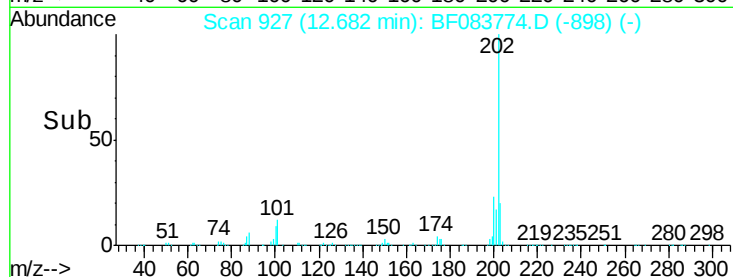
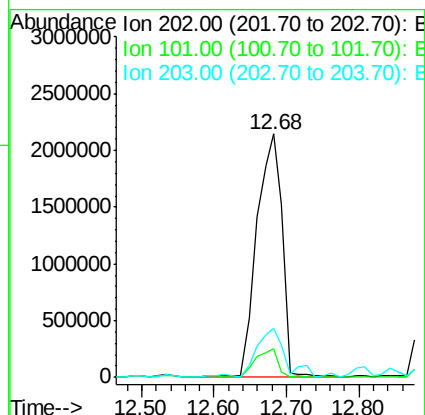
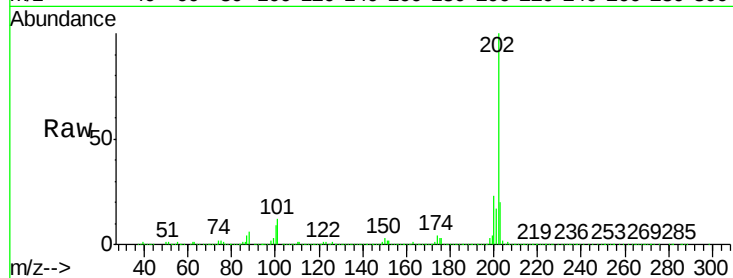
#74
Fluoranthene
Concen: 390.53 ng
RT: 12.68 min Scan# 927
Delta R.T. 0.03 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.5
203	20.2	0.0	37.6

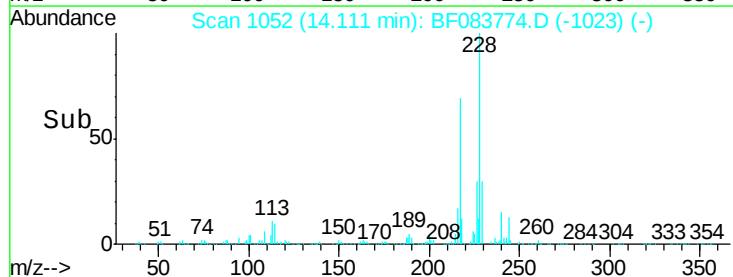
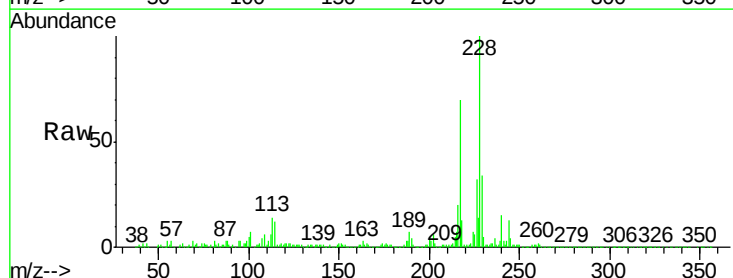
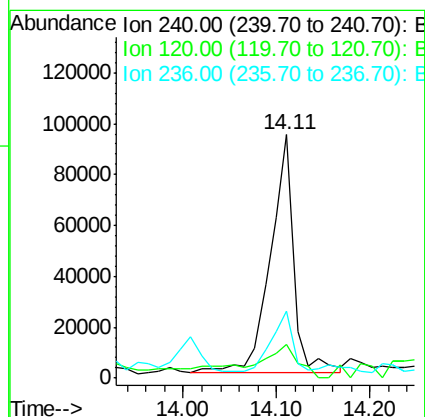
Manual Integrations
APPROVED

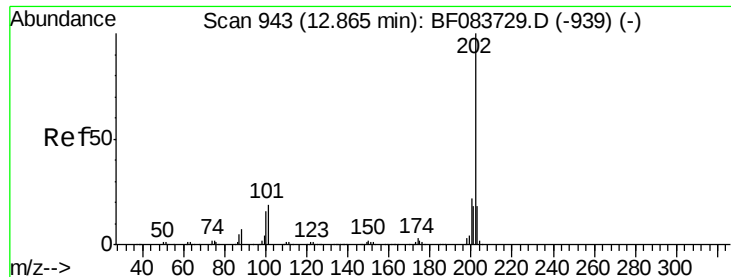
MMdadoda
12/14/2015 6:24:03 PM



#75
Chrysene-d12
Concen: 20.00 ng
RT: 14.11 min Scan# 1052
Delta R.T. 0.03 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.9	8.1	12.1#
236	27.4	20.8	31.2





#77

Pvrene

Concen: 356.24 ng/mL

RT: 12.91 min Scan# 947

Delta R.T. 0.03 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENT

Tot Ion:202 Resp: 4570230

Ion Ratio Lower Upper

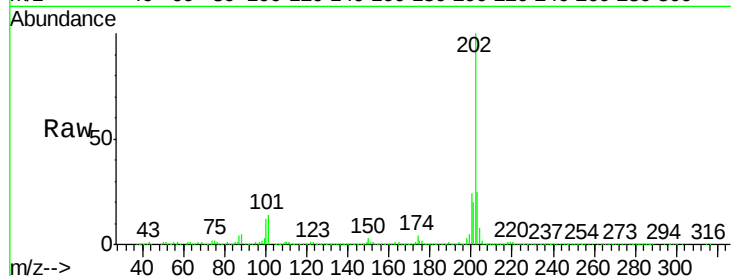
202 100

200 23.9 16.7 25.1

203 25.1 14.3 21.5#

Manual Integrations
APPROVED

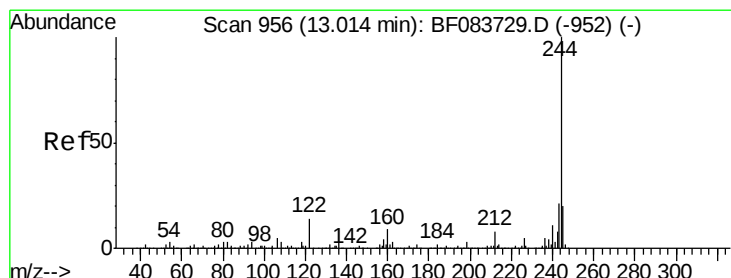
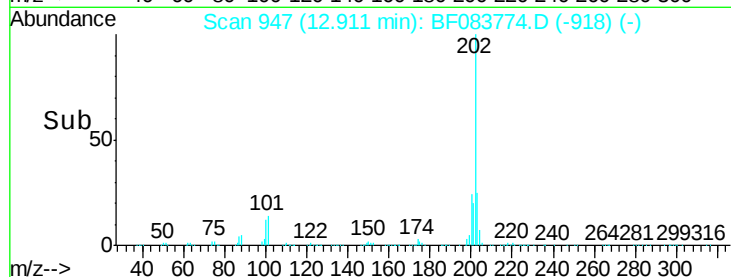
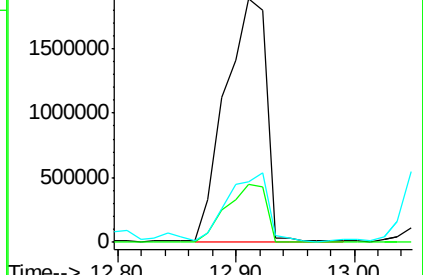
MMdadoda
12/14/2015 6:24:03 PM



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: 22.68 ng

RT: 13.03 min Scan# 957

Delta R.T. 0.00 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

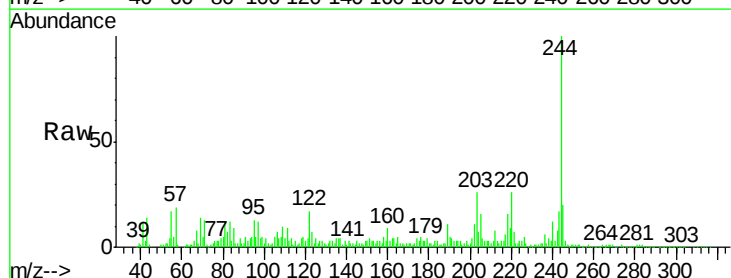
Tgt Ion:244 Resp: 171142

Ion Ratio Lower Upper

244 100

212 7.7 6.1 9.1

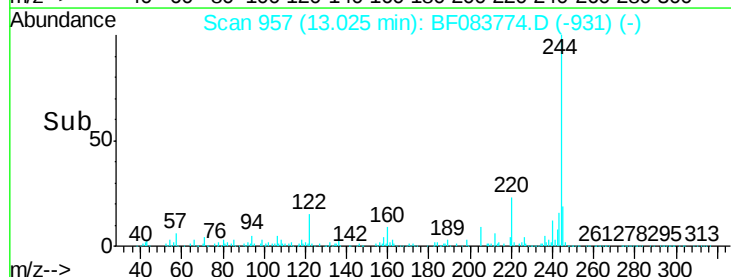
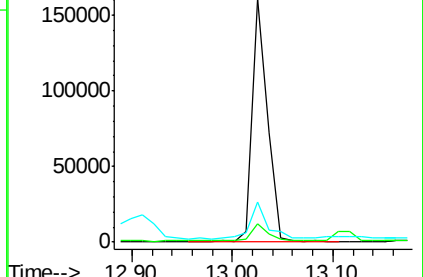
122 16.7 11.0 16.6#

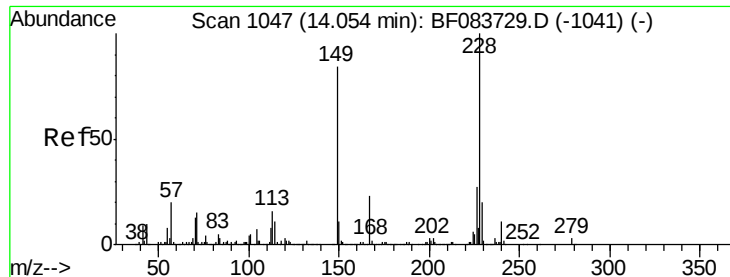


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





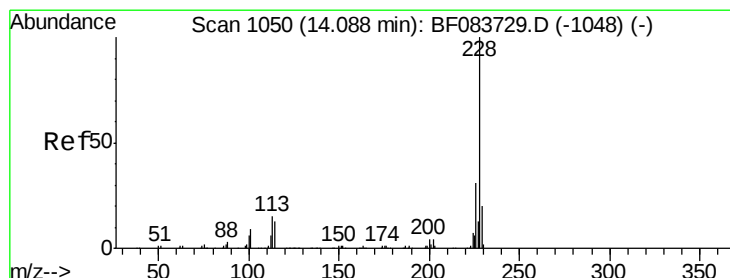
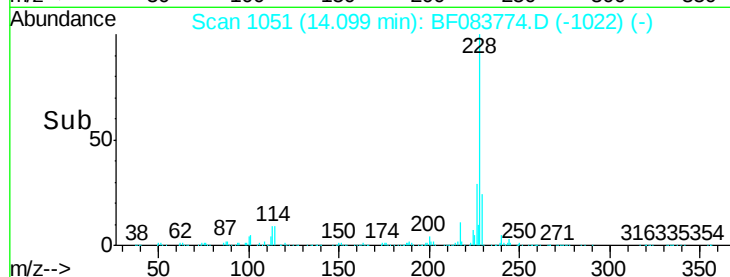
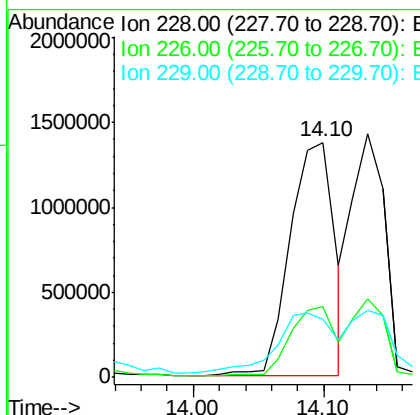
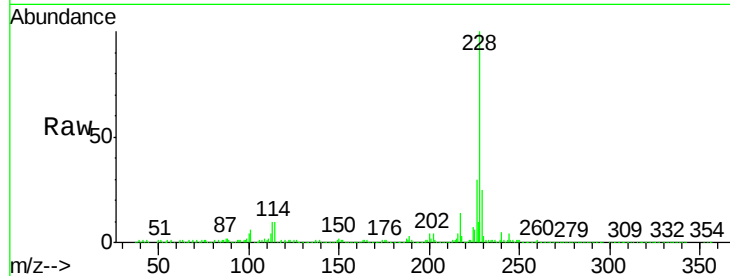
#80
Benzo(a)anthracene
Concen: 349.29 ng
RT: 14.10 min Scan# 1051
Delta R.T. 0.03 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Tot Ion:228 Resp: 3223856
Ion Ratio Lower Upper
228 100
226 30.0 22.3 33.5
229 24.7 15.7 23.5#

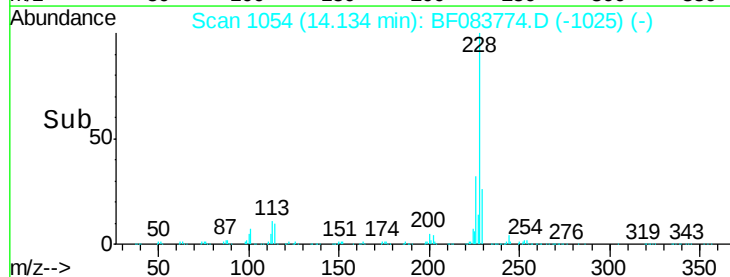
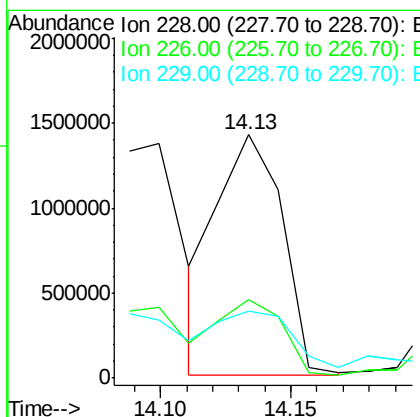
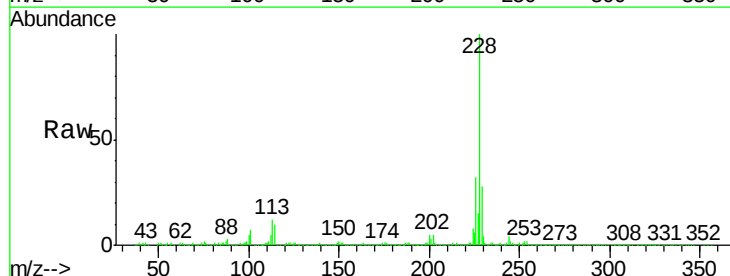
Manual Integrations
APPROVED

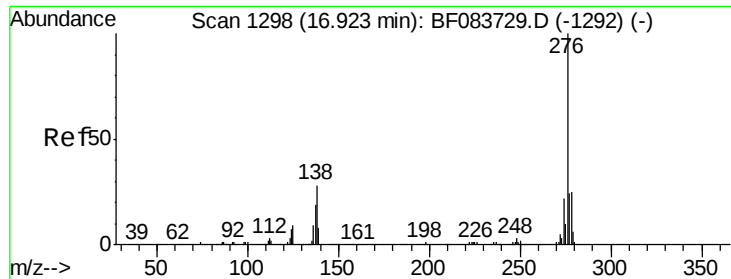
MMdadoda
12/14/2015 6:24:03 PM



#82
Chrysene
Concen: 275.49 ng
RT: 14.13 min Scan# 1054
Delta R.T. 0.03 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Tgt Ion:228 Resp: 2480087
Ion Ratio Lower Upper
228 100
226 32.5 24.7 37.1
229 27.8 16.3 24.5#





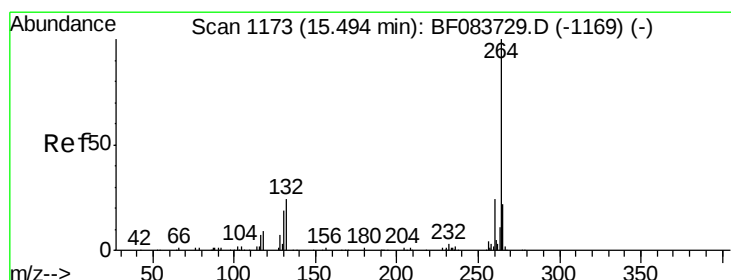
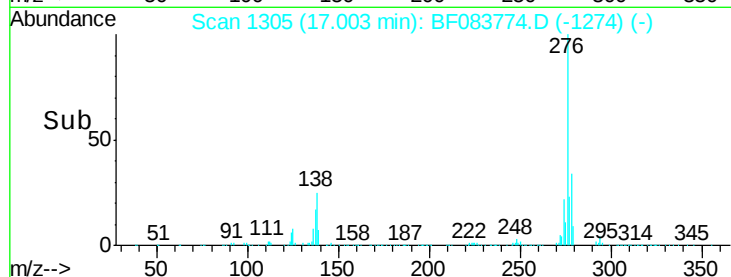
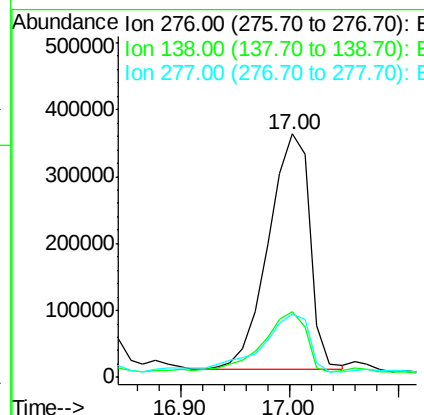
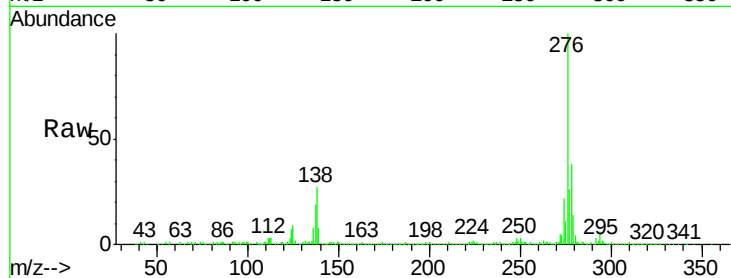
#85
Indeno(1,2,3-cd)pyrene
Concen: 105.23 ng
RT: 17.00 min Scan# 1305
Delta R.T. 0.06 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Tot Ion	Ratio	Resp Lower	Upper
276	100		
138	27.7	0.0	0.0#
277	30.1	0.0	0.0#

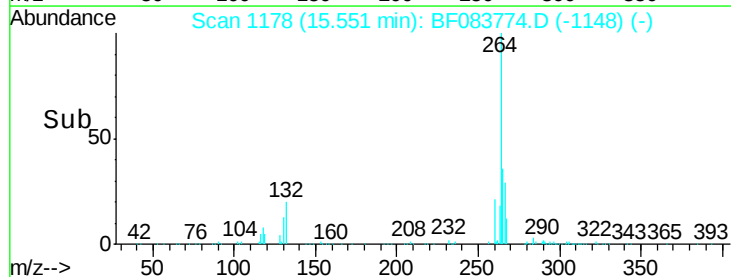
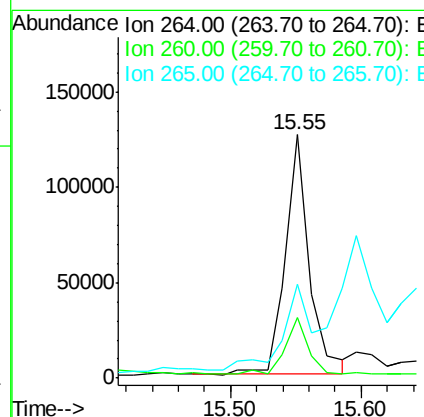
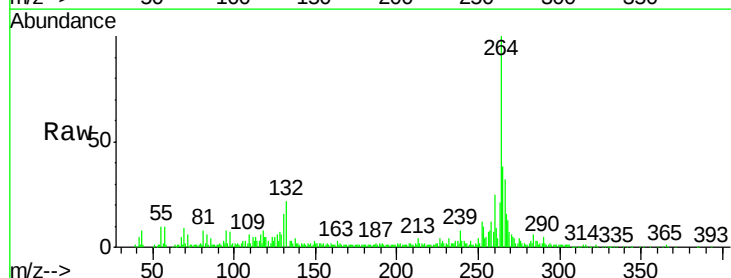
Manual Integrations
APPROVED

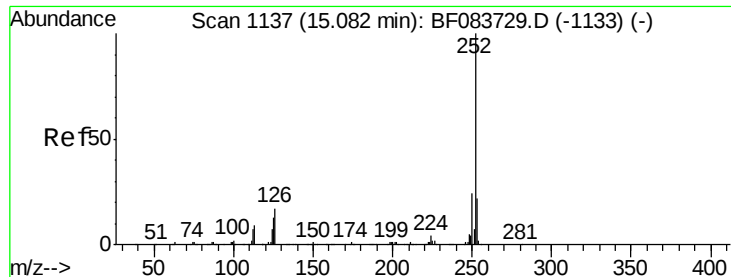
MMdadoda
12/14/2015 6:24:03 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.55 min Scan# 1178
Delta R.T. 0.05 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	25.0	19.4	29.0
265	38.4	17.8	26.6#





#87

Benzo(b)fluoranthene

Concen: 169.39 ng m

RT: 15.14 min Scan# 1142

Delta R.T. 0.05 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENT

Tot Ion:252 Resp: 1743780

Ion Ratio Lower Upper

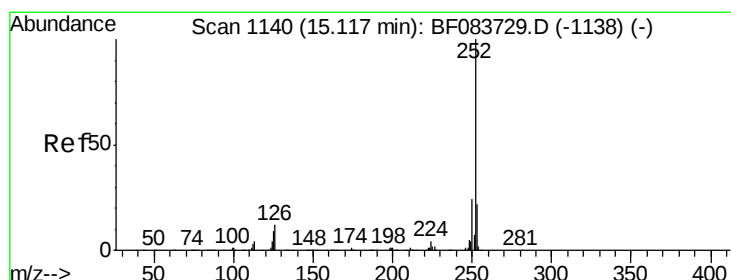
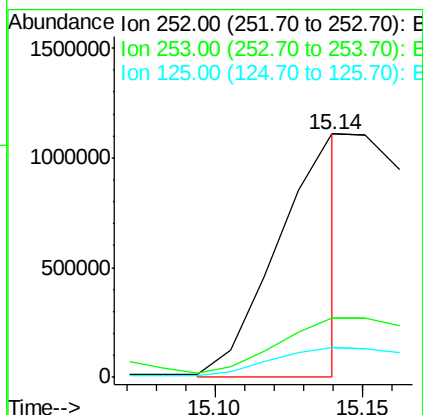
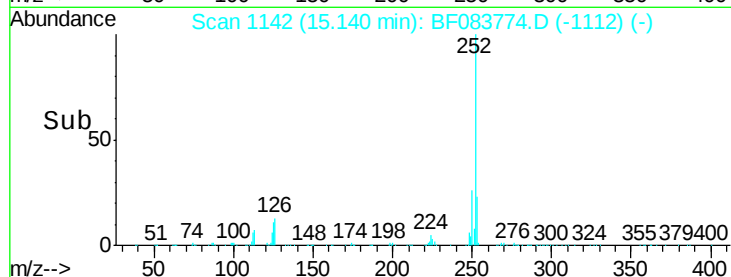
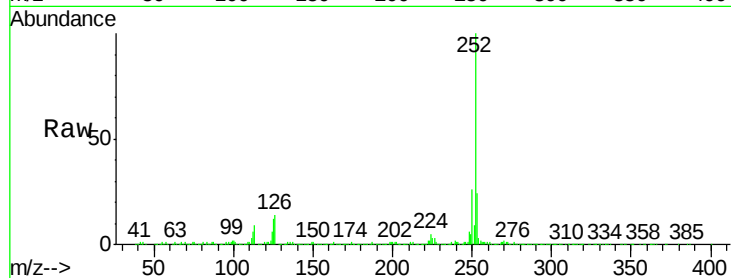
252 100

253 24.3 18.2 27.4

125 12.4 8.2 12.4#

Manual Integrations
APPROVED

MMdadoda
12/14/2015 6:24:03 PM



#88

Benzo(k)fluoranthene

Concen: 192.97 ng m

RT: 15.14 min Scan# 1142

Delta R.T. 0.01 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

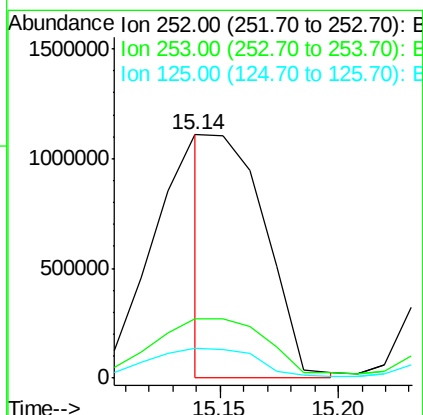
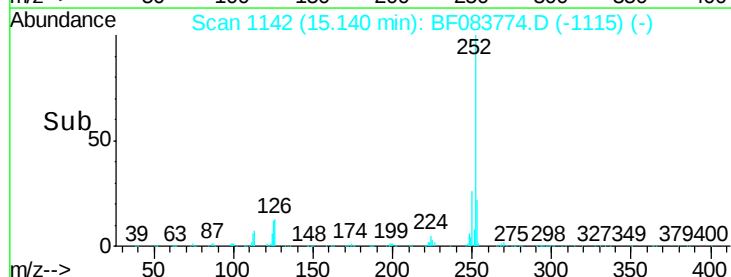
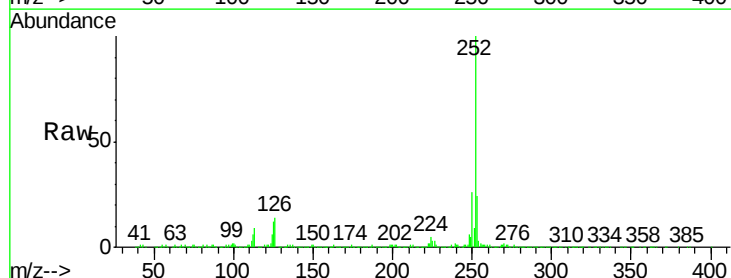
Tgt Ion:252 Resp: 1800088

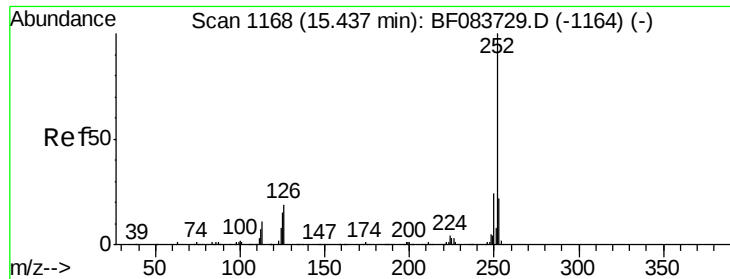
Ion Ratio Lower Upper

252 100

253 24.3 18.6 27.8

125 12.4 11.5 17.3





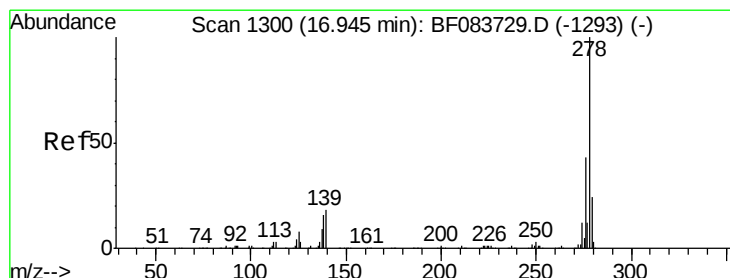
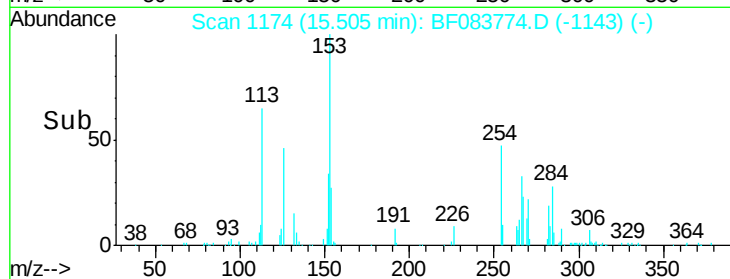
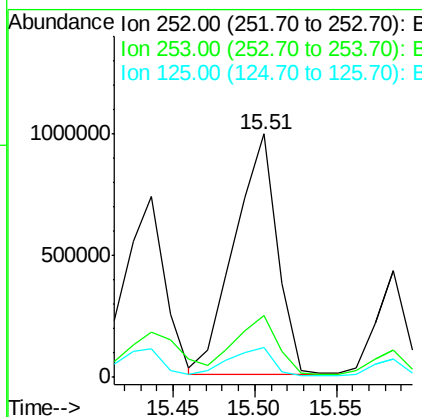
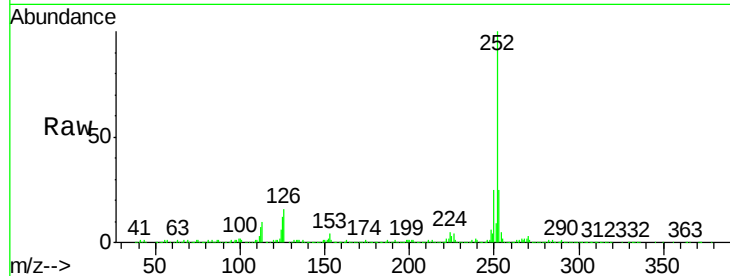
#89
Benzo(a)pyrene
Concen: 195.98 ng
RT: 15.51 min Scan# 1174
Delta R.T. 0.06 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Instrument :
BNA_F
ClientSampleId :
PIPE-SEDIMENT

Tot Ion:252 Resp: 1800359
Ion Ratio Lower Upper
252 100
253 25.5 17.5 26.3
125 12.1 11.0 16.6

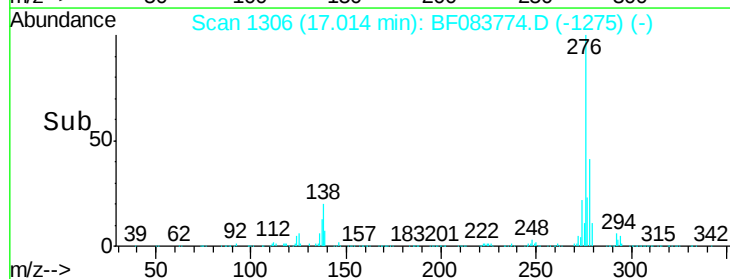
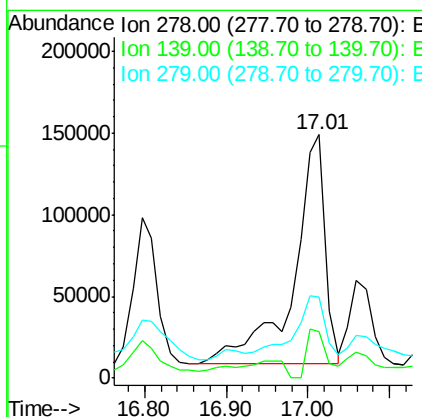
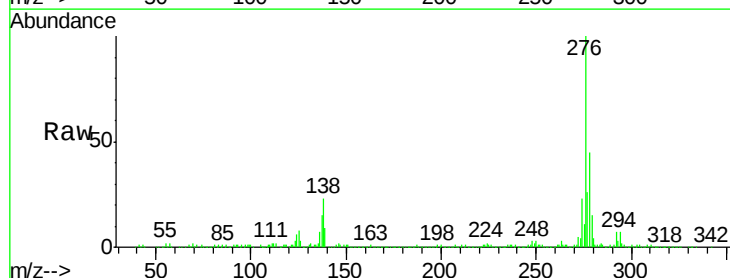
Manual Integrations
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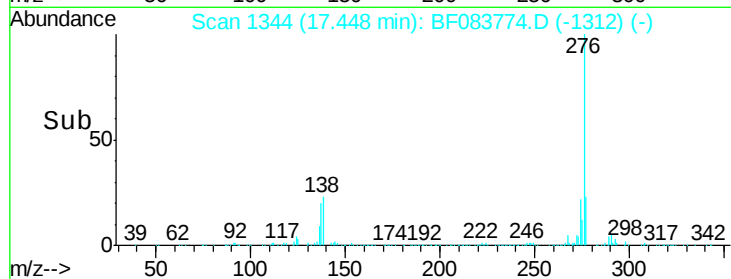
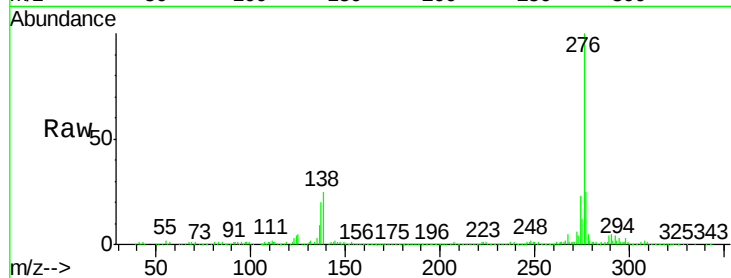
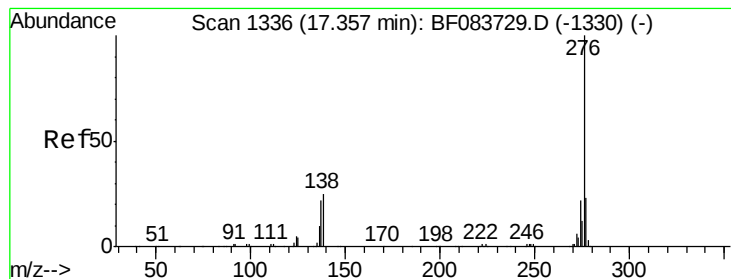
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#90
Dibenzo(a,h)anthracene
Concen: 41.34 ng
RT: 17.01 min Scan# 1306
Delta R.T. 0.06 min
Lab File: BF083774.D
Acq: 14 Dec 2015 12:33

Tgt Ion:278 Resp: 377612
Ion Ratio Lower Upper
278 100
139 19.3 12.8 19.2#
279 33.3 18.6 28.0#





#91

Benzo(a,h,i)perylene

Concen: 92.64 ng

RT: 17.45 min Scan# 1344

Delta R.T. 0.07 min

Lab File: BF083774.D

Acq: 14 Dec 2015 12:33

Tot Ion:	276	Resp:	869902
Ion Ratio	Lower	Upper	
276	100		
277	25.0	19.2	28.8
138	24.8	19.5	29.3

Instrument :

BNA_F

ClientSampleId :

PIPE-SEDIMENT

Manual Integrations
APPROVED

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