

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082347.D
 Acq On : 17 Oct 2015 2:31
 Operator : UM/IZ
 Sample : G4009-03
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 KW-3

Manual Integrations
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MMdadoda
 10/19/2015 5:32:39 PM

Quant Time: Oct 17 06:09:28 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 17 04:30:36 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	55449m	20.00	ng	0.02
21) Naphthalene-d8	8.24	136	240462	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	128852	20.00	ng	0.00
63) Phenanthrene-d10	11.49	188	261206	20.00	ng	0.01
75) Chrysene-d12	14.16	240	227630	20.00	ng	0.02
86) Perylene-d12	15.70	264	207340	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	360821	131.33	ng	0.02
7) Phenol-d6	6.61	99	524277	146.64	ng	0.01
23) Nitrobenzene-d5	7.53	82	311789	87.07	ng	0.01
41) 2,4,6-Tribromophenol	10.79	330	151304	125.21	ng	0.01
44) 2-Fluorobiphenyl	9.31	172	591814	76.17	ng	0.01
78) Terphenyl-d14	13.06	244	560232	65.22	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.26	128	70776	6.79	ng	98
37) 2-Methylnaphthalene	8.96	142	20523	2.84	ng	98
48) Acenaphthylene	9.85	152	45436	3.77	ng	98
49) Dimethylphthalate	9.70	163	139188	15.34	ng	100
51) Acenaphthene	10.02	154	51748	7.15	ng	98
54) Dibenzofuran	10.19	168	72789	7.33	ng	99
57) Fluorene	10.54	166	78622	9.64	ng	100
70) Phenanthrene	11.51	178	1039074	81.16	ng	99
71) Anthracene	11.55	178	253238	19.19	ng	99
72) Carbazole	11.71	167	152326	12.66	ng	98
74) Fluoranthene	12.70	202	959433	69.77	ng	98
77) Pvrene	12.93	202	769914	56.99	ng	99
80) Benzo(a)anthracene	14.15	228	416252m	35.15	ng	
82) Chrysene	14.18	228	385930m	30.93	ng	
85) Indeno(1,2,3-cd)pyrene	17.21	276	137478	13.86	ng	95
87) Benzo(b)fluoranthene	15.27	252	394094m	31.24	ng	
88) Benzo(k)fluoranthene	15.28	252	171939m	16.22	ng	
89) Benzo(a)pyrene	15.65	252	266016	24.54	ng	98
90) Dibenzo(a,h)anthracene	17.22	278	43070m	4.85	ng	
91) Benzo(a,h,i)perylene	17.67	276	119398	13.83	ng	98

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

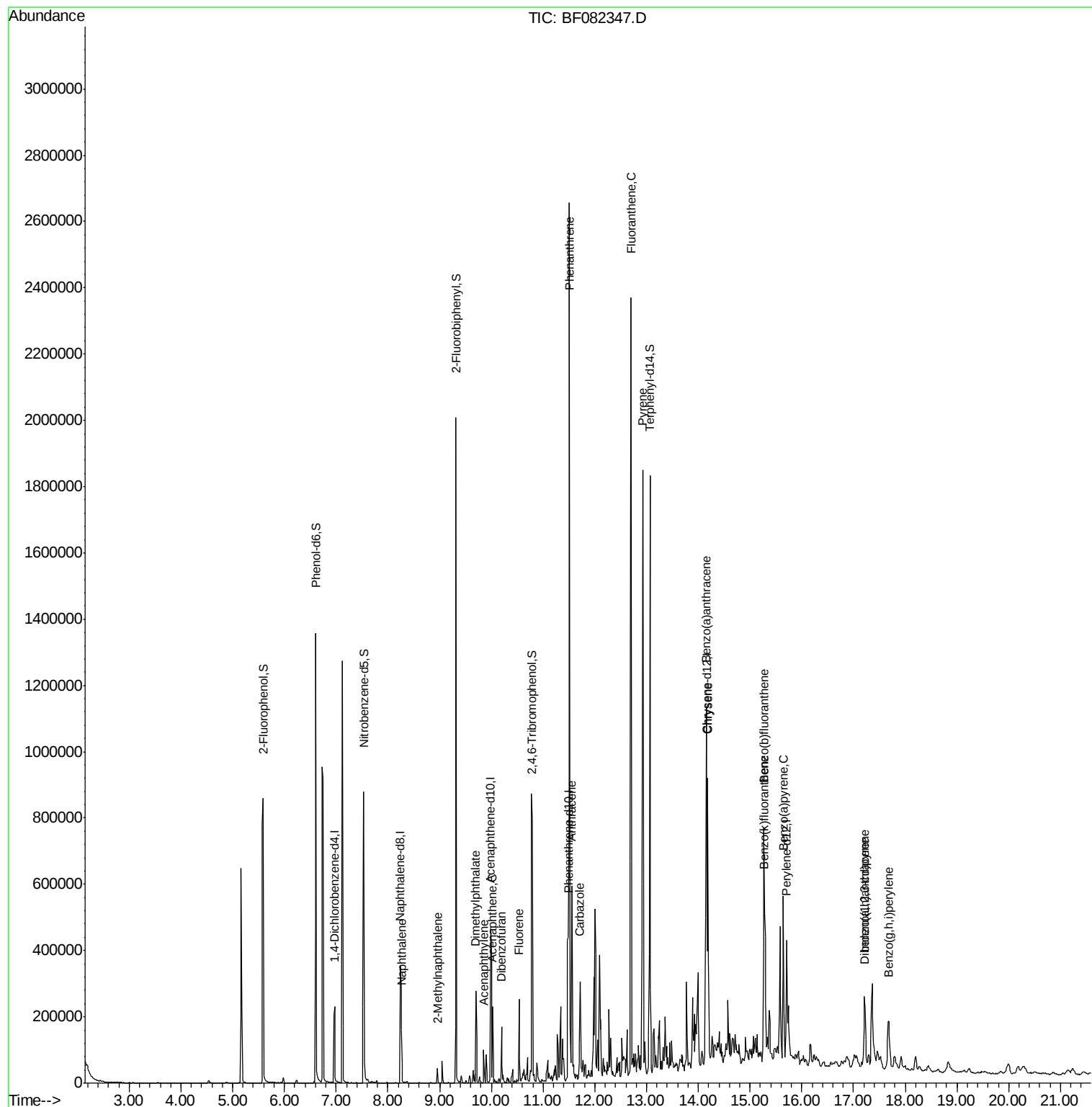
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082347.D
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Misc :
ALS Vial : 27 Sample Multiplier: 1

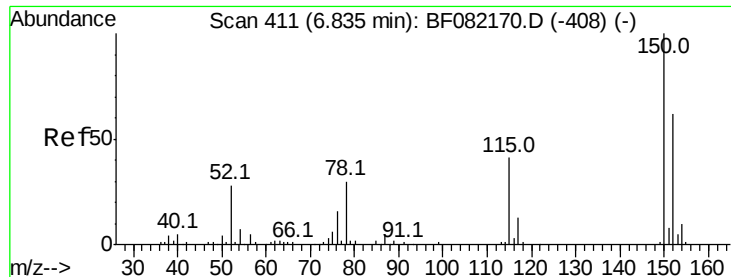
Instrument :
BNA_F
ClientSampleId :
KW-3

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#1

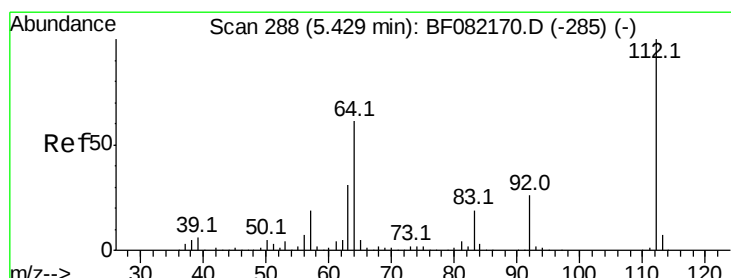
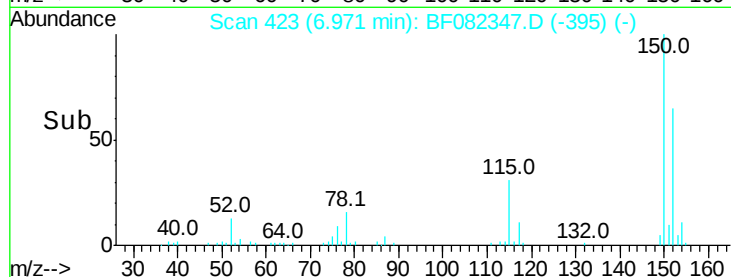
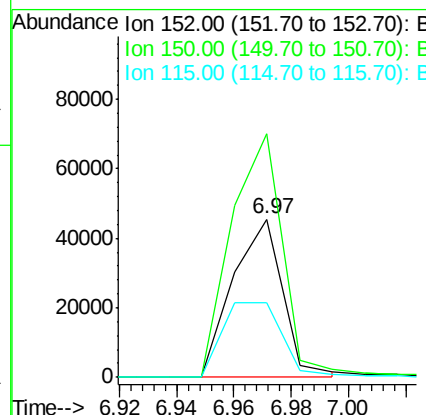
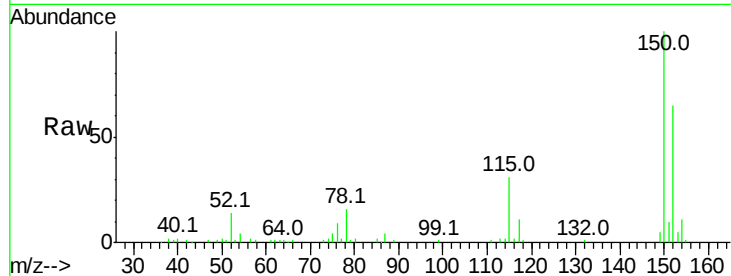
1,4-Dichlorobenzene-d4
Concen: 20.00 ng/mL
RT: 6.97 min Scan# 423
Delta R.T. 0.02 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	129.0	193.4
115	47.5	52.1	78.1#

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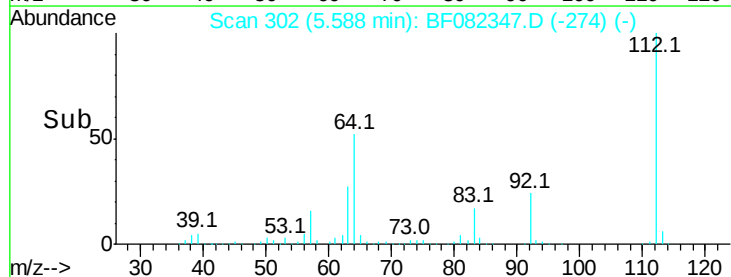
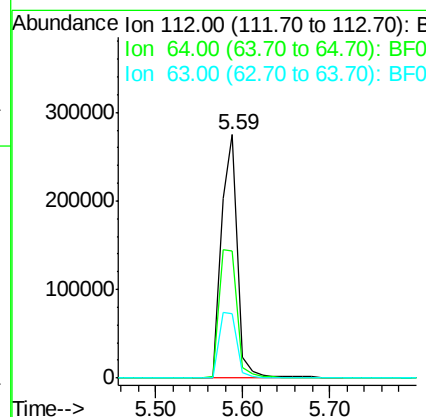
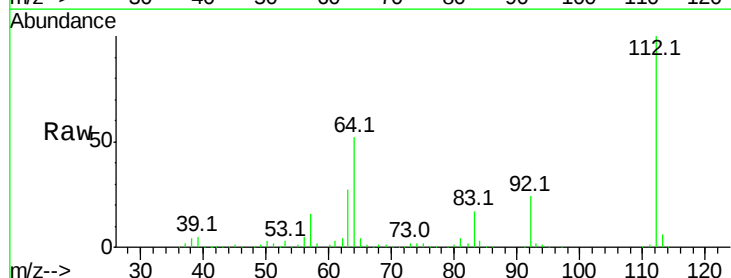
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#5

2-Fluorophenol
Concen: 131.33 ng/mL
RT: 5.59 min Scan# 302
Delta R.T. 0.02 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.2	48.6	73.0
63	26.7	25.1	37.7





#7

Phenol-d6

Concen: 146.64 ng

RT: 6.61 min Scan# 391

Delta R.T. 0.01 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Instrument :

BNA_F

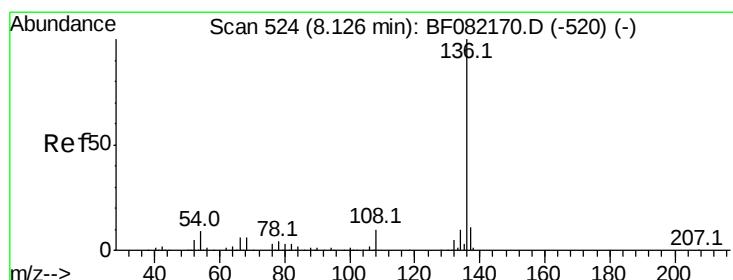
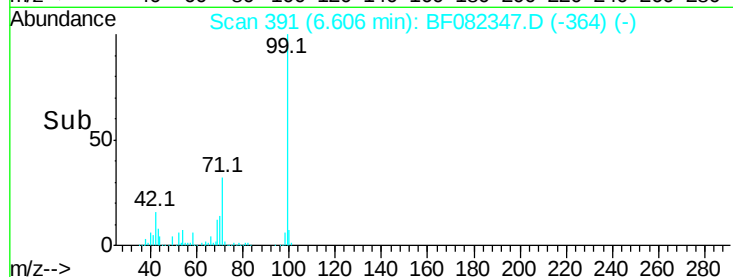
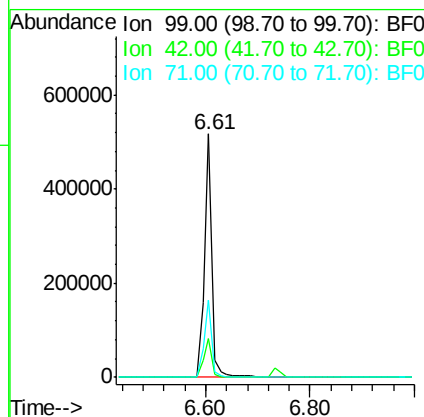
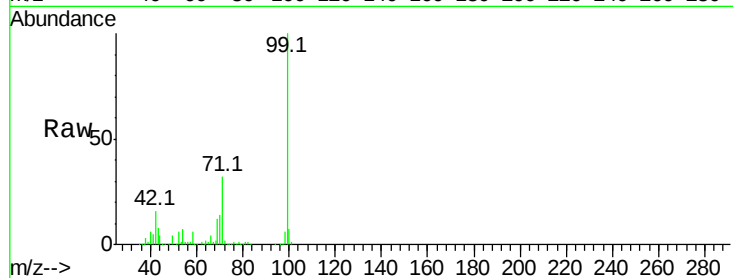
ClientSampleId :

KW-3

Tot Ion:	99	Resp:	524277
Ion Ratio	Lower	Upper	
99	100		
42	15.9	13.2	19.8
71	31.7	25.6	38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

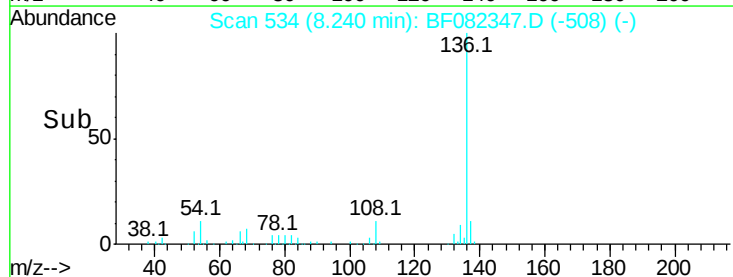
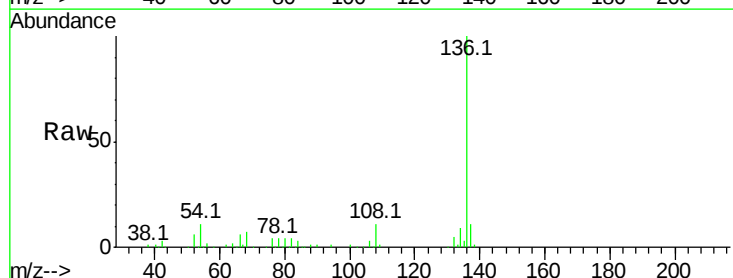
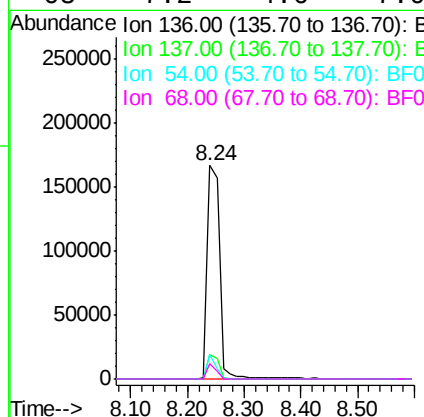
RT: 8.24 min Scan# 534

Delta R.T. -0.00 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Tgt Ion:	136	Resp:	240462
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.0	13.6
54	11.3	7.5	11.3#
68	7.2	4.6	7.0#





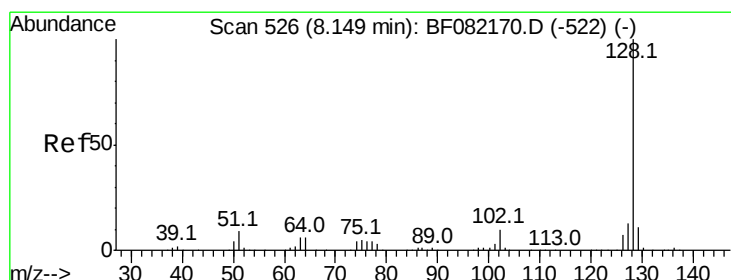
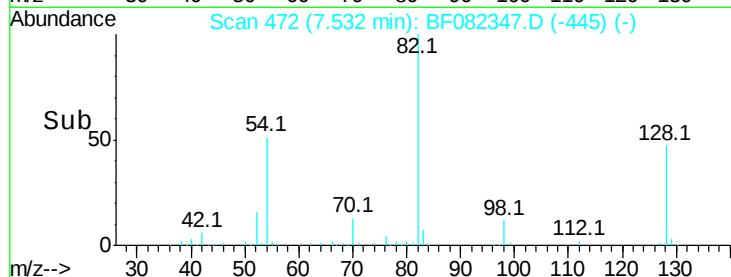
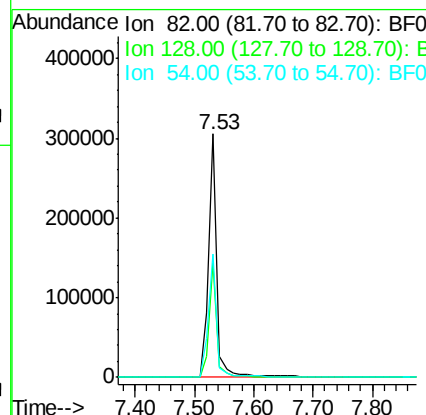
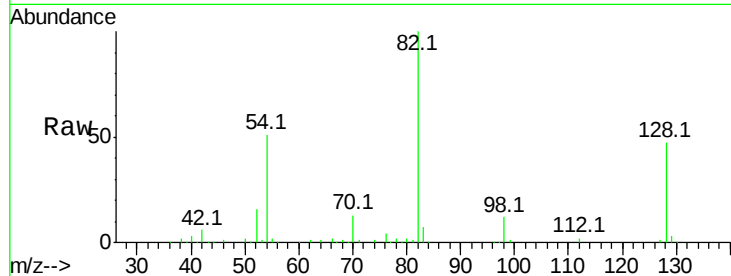
#23
Nitrobenzene-d5
Concen: 87.07 ng
RT: 7.53 min Scan# 472
Delta R.T. 0.01 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Resp	Lower	Upper
82	100	311789		
128	46.8	38.7	58.1	
54	50.8	40.1	60.1	

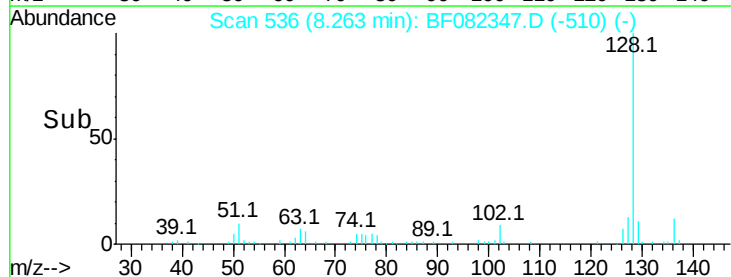
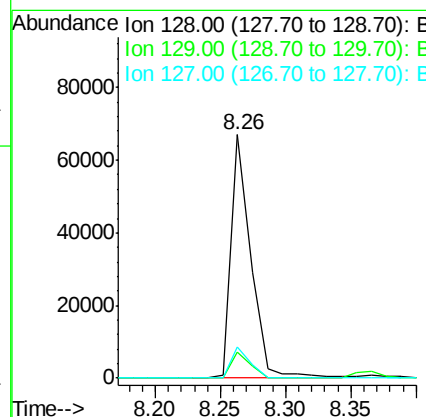
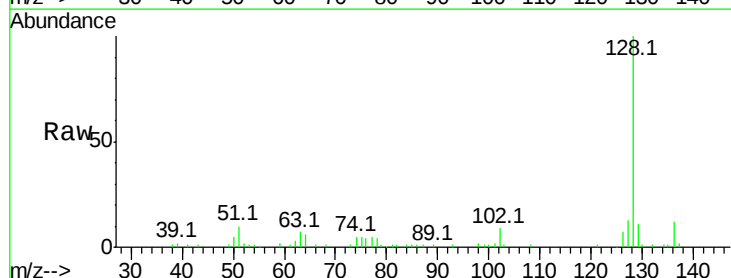
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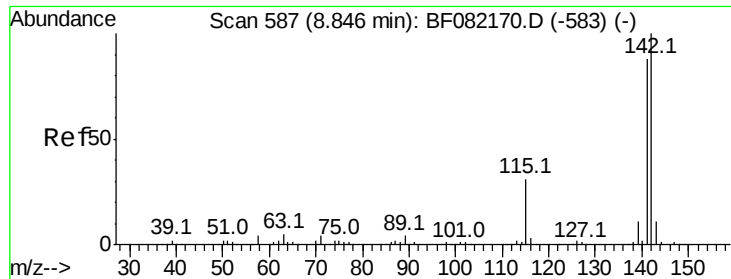
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#31
Naphthalene
Concen: 6.79 ng
RT: 8.26 min Scan# 536
Delta R.T. -0.00 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	70776		
129	10.9	9.1	13.7	
127	12.8	10.7	16.1	





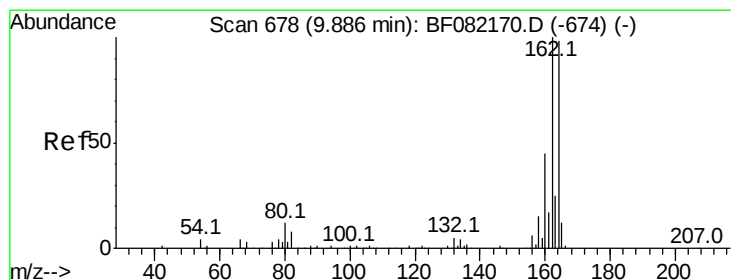
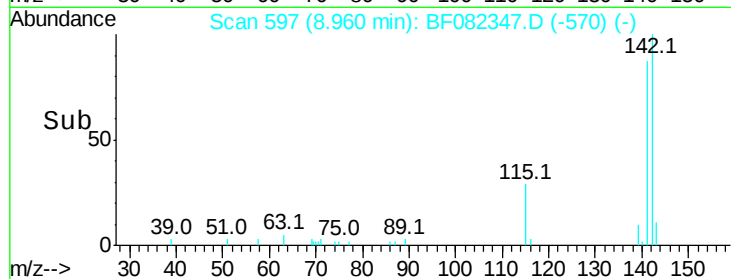
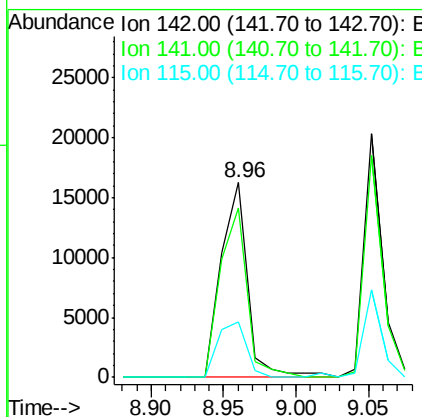
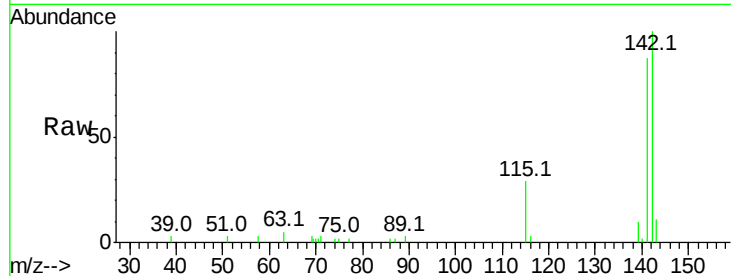
#37
2-Methylnaphthalene
Concen: 2.84 ng
RT: 8.96 min Scan# 597
Delta R.T. 0.01 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Instrument :
BNA_F
ClientSampled :
KW-3

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.3	70.4	105.6
115	28.6	24.6	37.0

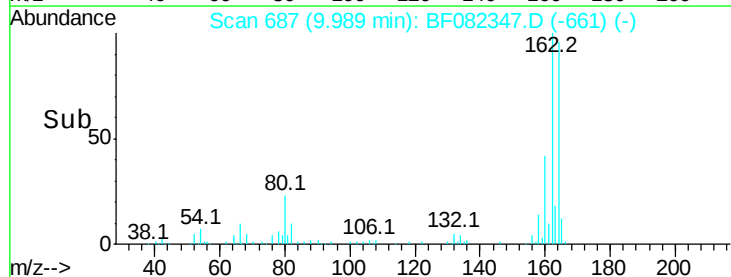
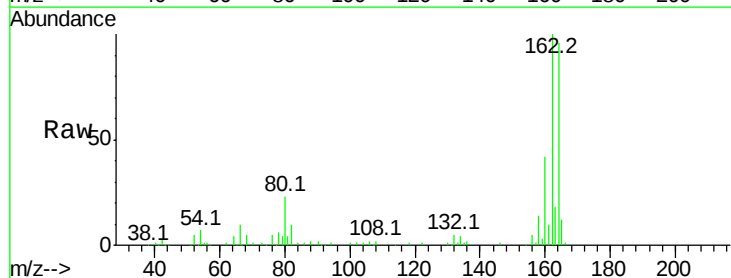
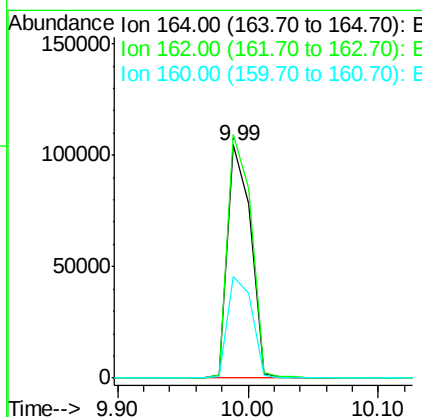
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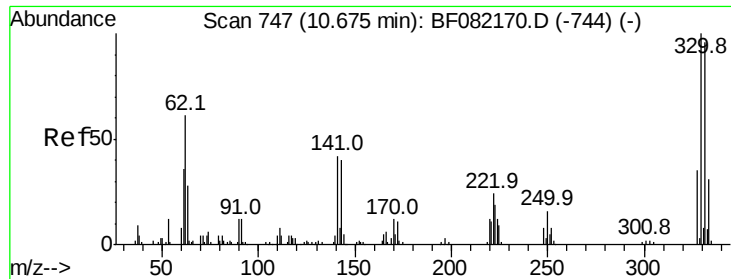
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.99 min Scan# 687
Delta R.T. -0.00 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	81.6	122.4
160	43.6	36.4	54.6





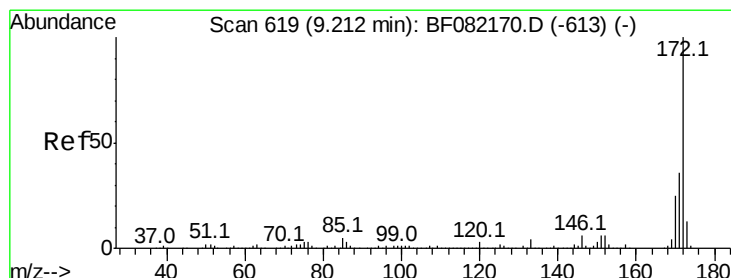
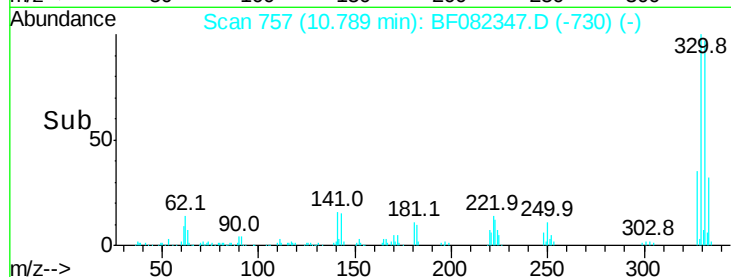
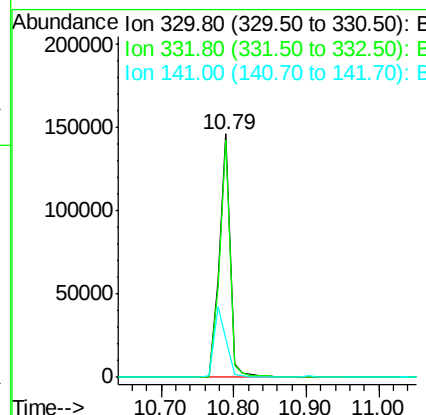
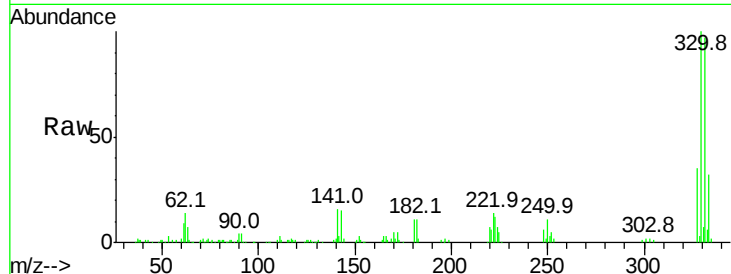
#41
 2,4,6-Tribromophenol
 Concen: 125.21 ng
 RT: 10.79 min Scan# 757
 Delta R.T. 0.01 min
 Lab File: BF082347.D
 Acq: 17 Oct 2015 2:31

Instrument :
 BNA_F
 ClientSampleId :
 KW-3

Tot Ion	Ratio	Resp	Lower	Upper
330	100	151304		
332	95.9	77.1	115.7	
141	32.4	29.8	44.8	

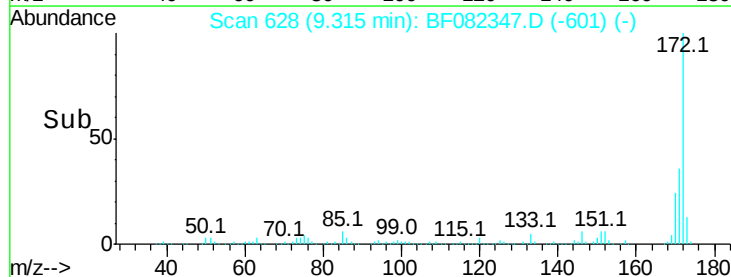
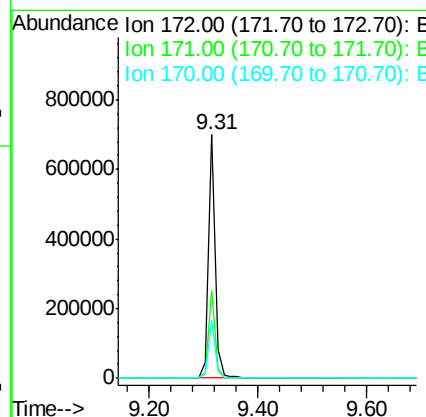
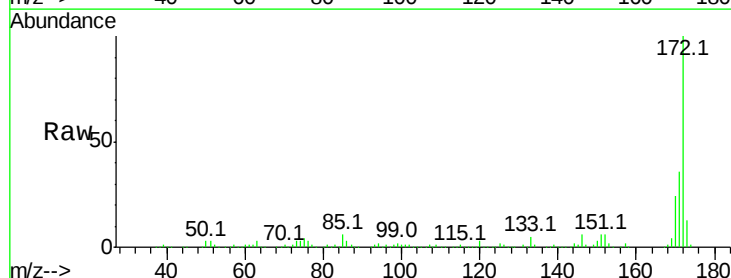
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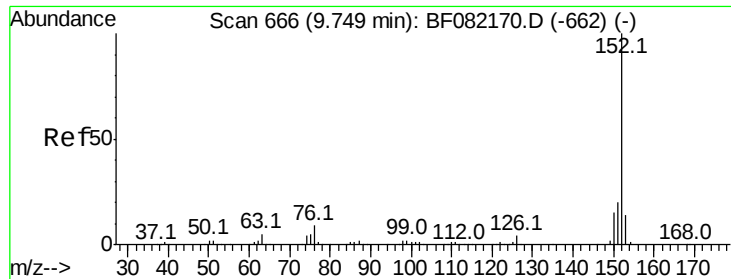
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#44
 2-Fluorobiphenyl
 Concen: 76.17 ng
 RT: 9.31 min Scan# 628
 Delta R.T. 0.01 min
 Lab File: BF082347.D
 Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	591814		
171	35.9	28.6	42.8	
170	24.1	19.7	29.5	





#48

Acenaphthylene

Concen: 3.77 ng

RT: 9.85 min Scan# 675

Delta R.T. -0.00 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Instrument :

BNA_F

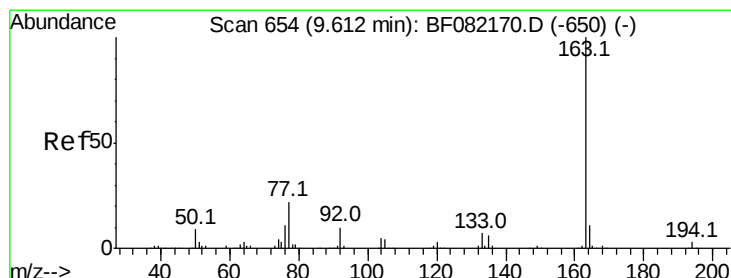
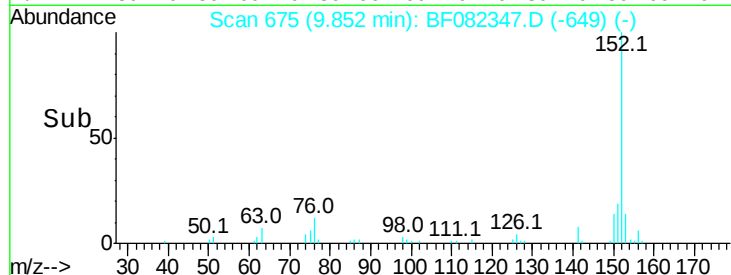
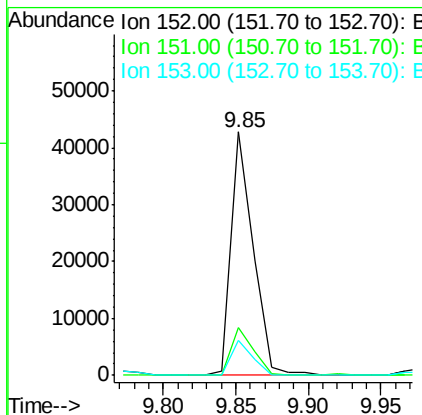
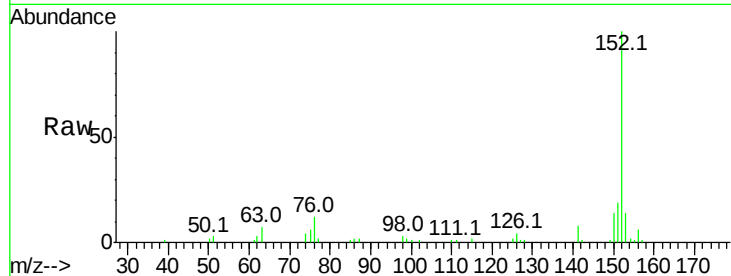
ClientSampleId :

KW-3

Tot Ion:	152	Resp:	45436
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.4	24.6
153	14.2	10.8	16.2

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#49

Dimethylphthalate

Concen: 15.34 ng

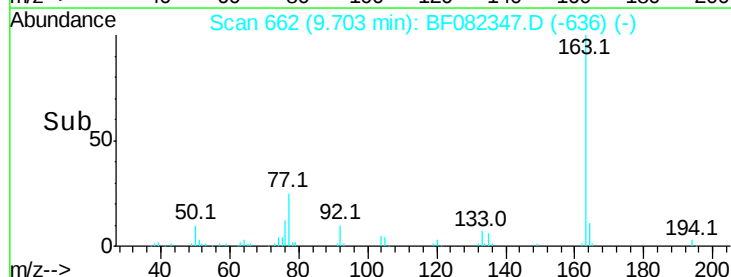
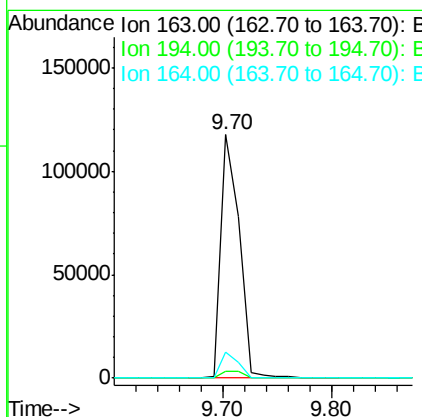
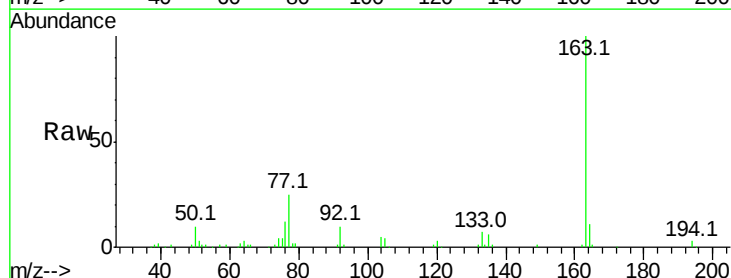
RT: 9.70 min Scan# 662

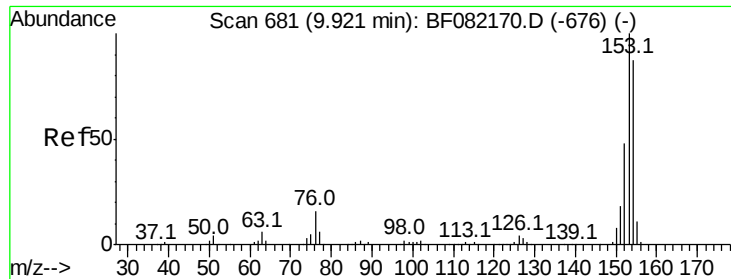
Delta R.T. -0.00 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Tgt Ion:	163	Resp:	139188
Ion Ratio	Lower	Upper	
163	100		
194	2.9	2.6	4.0
164	10.7	8.5	12.7





#51

Acenaphthene

Concen: 7.15 ng

RT: 10.02 min Scan# 690

Delta R.T. -0.00 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Instrument :

BNA_F

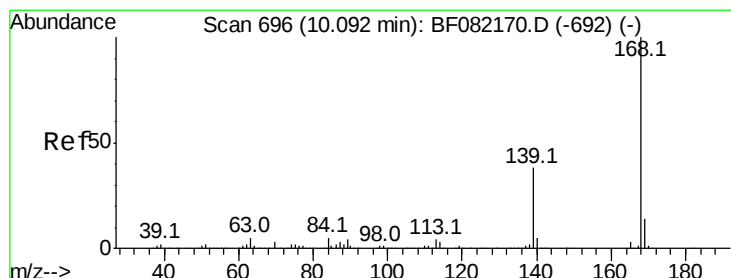
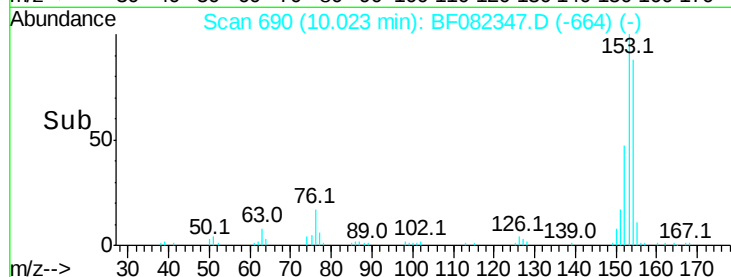
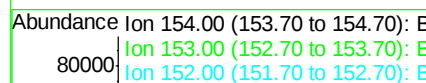
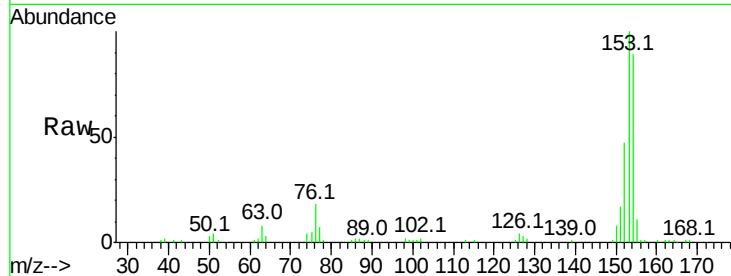
ClientSampleId :

KW-3

Tot Ion:	154	Resp:	51748
Ion Ratio	Lower	Upper	
154	100		
153	112.8	91.4	137.2
152	53.0	44.3	66.5

Manual Integrations
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#54

Dibenzofuran

Concen: 7.33 ng

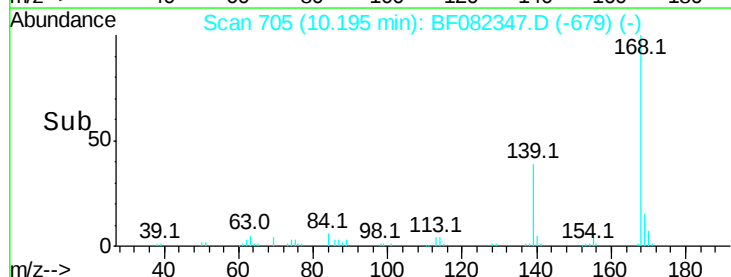
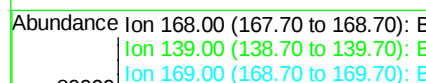
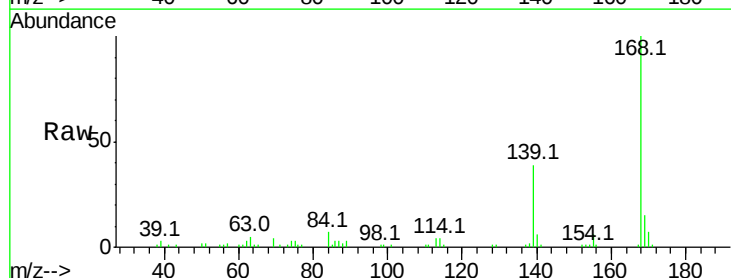
RT: 10.19 min Scan# 705

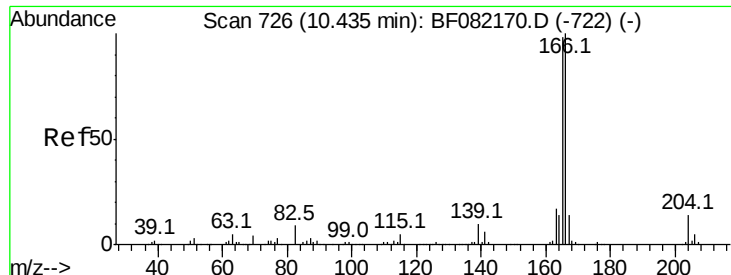
Delta R.T. -0.00 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Tgt Ion:	168	Resp:	72789
Ion Ratio	Lower	Upper	
168	100		
139	39.2	31.0	46.6
169	14.8	10.9	16.3





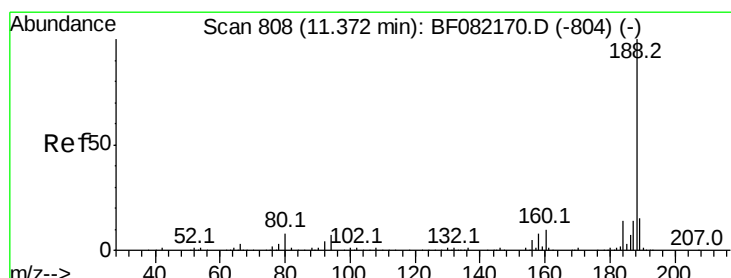
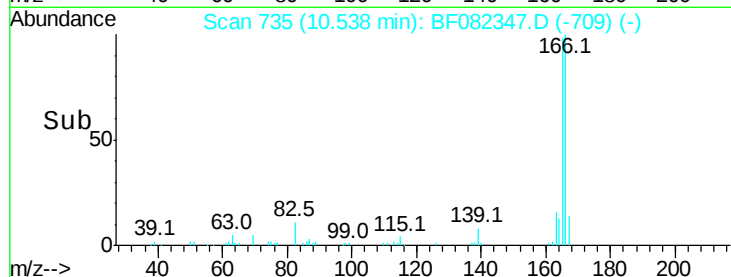
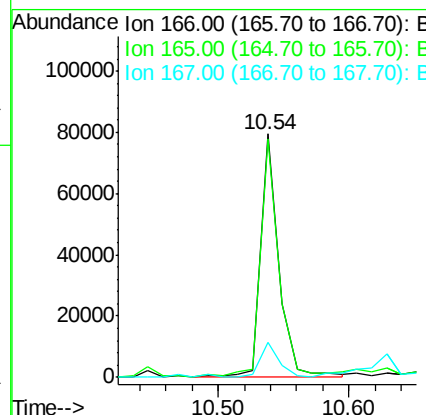
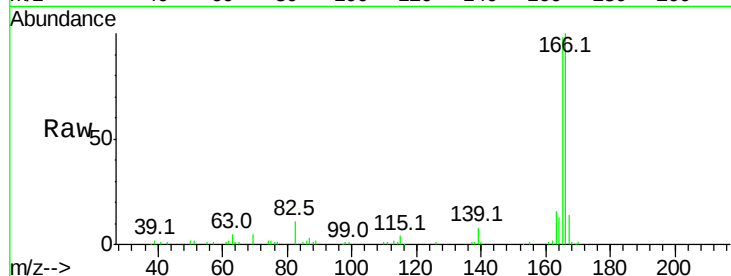
#57
Fluorene
 Concen: 9.64 ng
 RT: 10.54 min Scan# 735
 Delta R.T. -0.00 min
 Lab File: BF082347.D
 Acq: 17 Oct 2015 2:31

Instrument :
 BNA_F
 ClientSampleId :
 KW-3

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.3	117.5
167	14.3	10.8	16.2

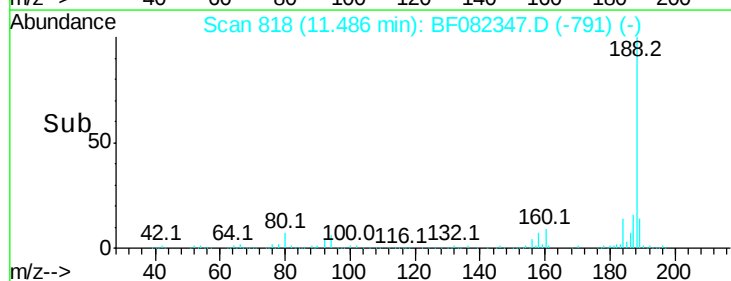
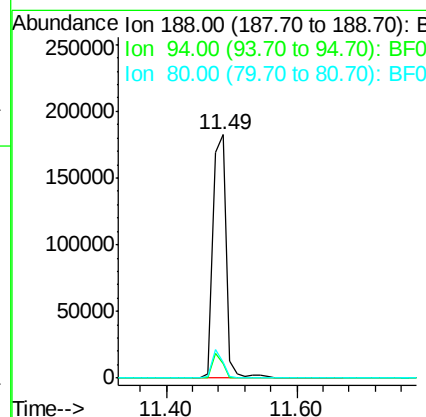
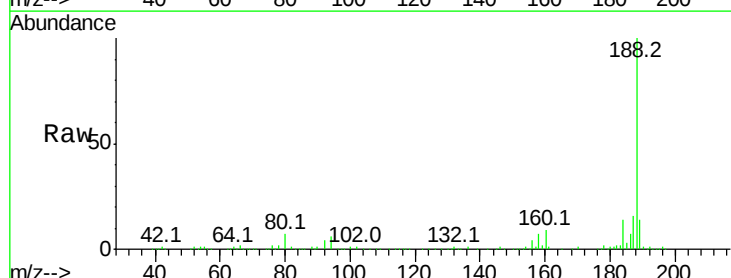
Manual Integrations
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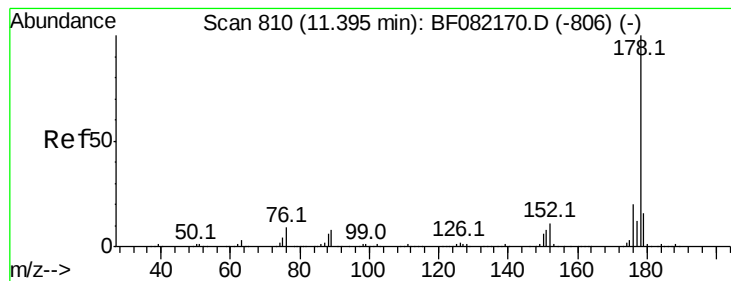
MMdadoda
 10/19/2015 5:32:39 PM



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.49 min Scan# 818
 Delta R.T. 0.01 min
 Lab File: BF082347.D
 Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.8	5.8	8.6
80	6.5	6.4	9.6





#70

Phenanthrene

Concen: 81.16 ng

RT: 11.51 min Scan# 820

Delta R.T. 0.01 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Instrument :

BNA_F

ClientSampled :

KW-3

Tot Ion:178 Resp: 1039074

Ion Ratio Lower Upper

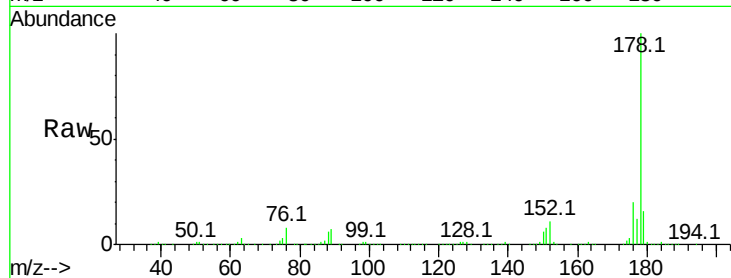
178 100

176 20.0 16.0 24.0

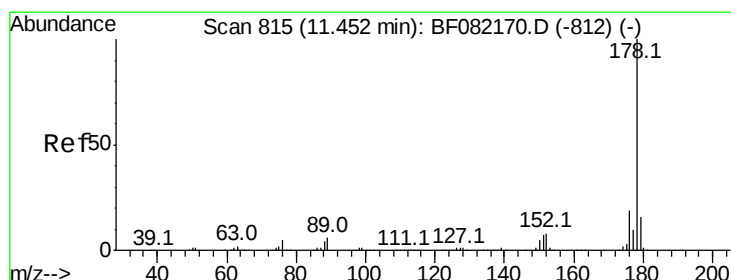
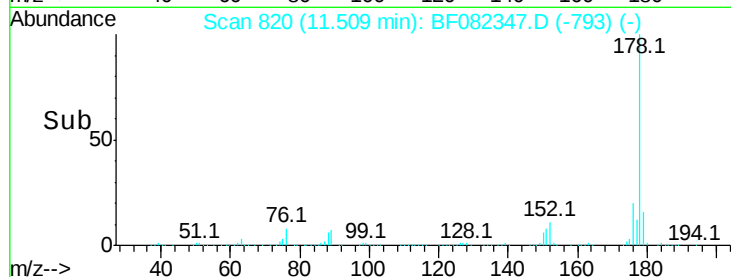
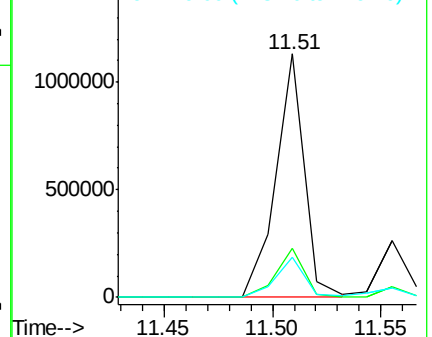
179 16.3 12.6 19.0

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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: 19.19 ng

RT: 11.55 min Scan# 824

Delta R.T. 0.01 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

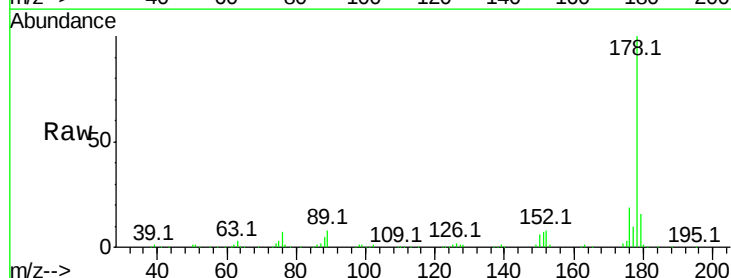
Tgt Ion:178 Resp: 253238

Ion Ratio Lower Upper

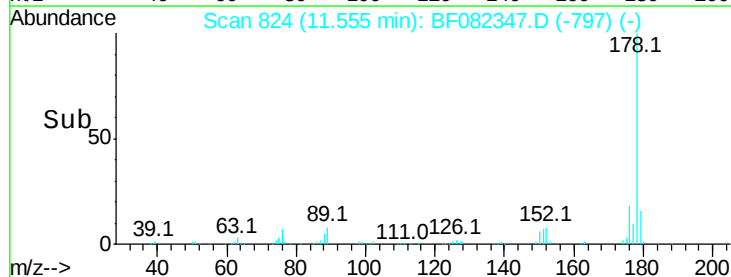
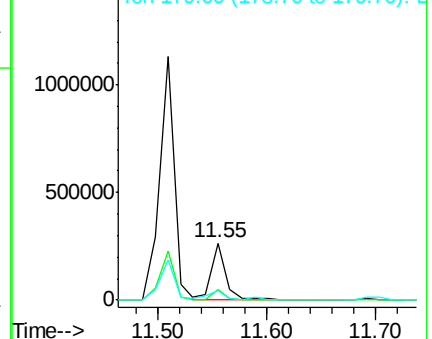
178 100

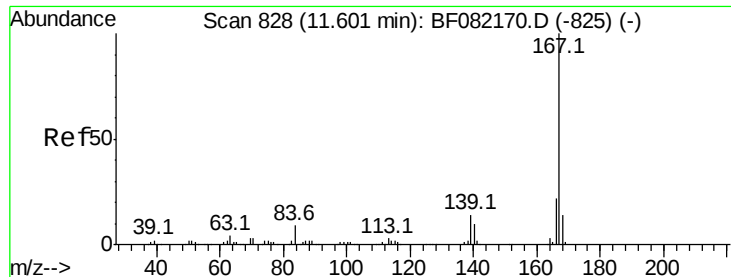
176 18.5 15.4 23.0

179 15.9 12.5 18.7



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





#72

Carbazole

Concen: 12.66 ng

RT: 11.71 min Scan# 838

Delta R.T. 0.01 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Instrument :

BNA_F

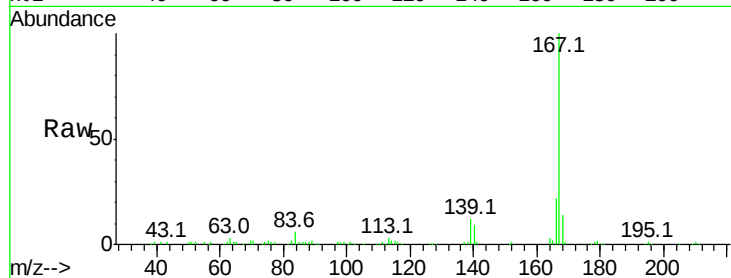
ClientSampleId :

KW-3

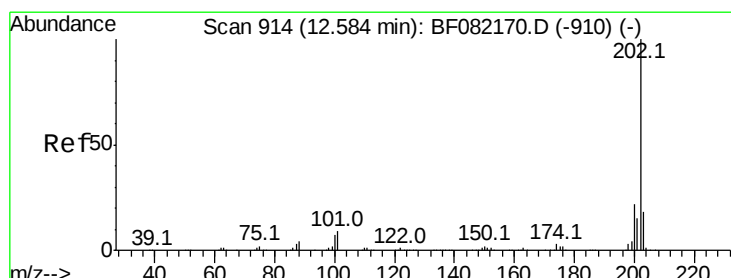
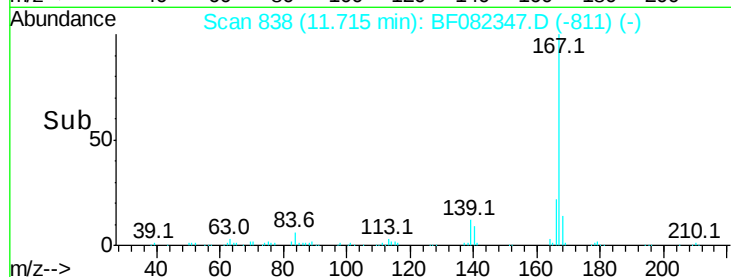
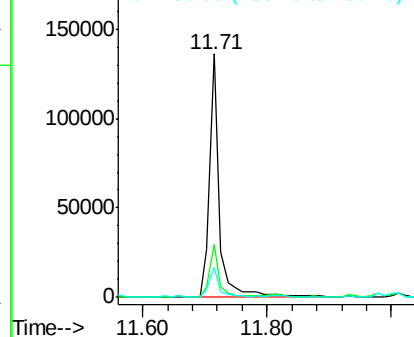
Tot Ion:	167	Resp:	152326
Ion Ratio	Lower	Upper	
167	100		
166	21.9	17.3	25.9
139	12.1	11.2	16.8

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Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 69.77 ng

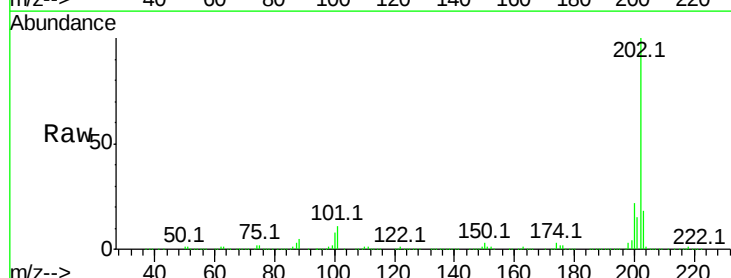
RT: 12.70 min Scan# 924

Delta R.T. 0.01 min

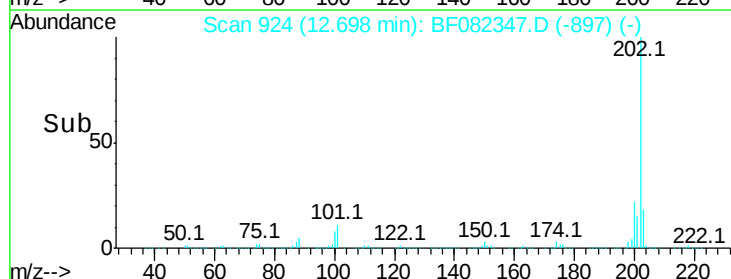
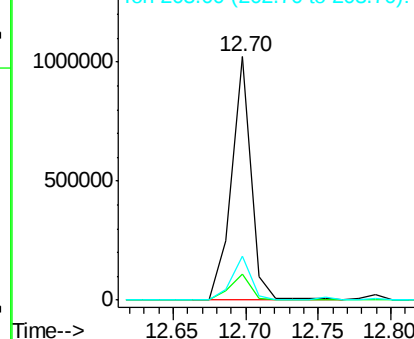
Lab File: BF082347.D

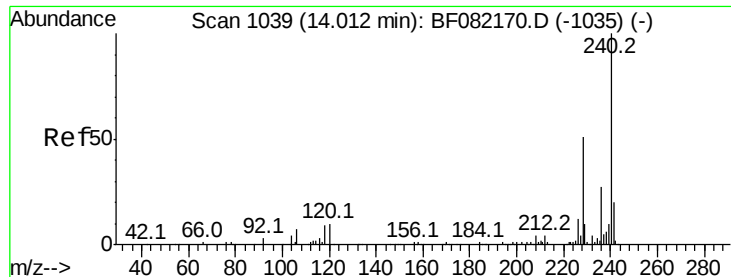
Acq: 17 Oct 2015 2:31

Tgt Ion:	202	Resp:	959433
Ion Ratio	Lower	Upper	
202	100		
101	10.7	0.0	29.3
203	18.1	0.0	37.8



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: 14.16 min Scan# 1052

Delta R.T. 0.02 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Instrument :

BNA_F

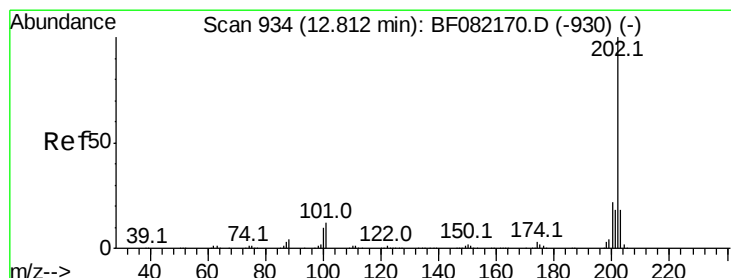
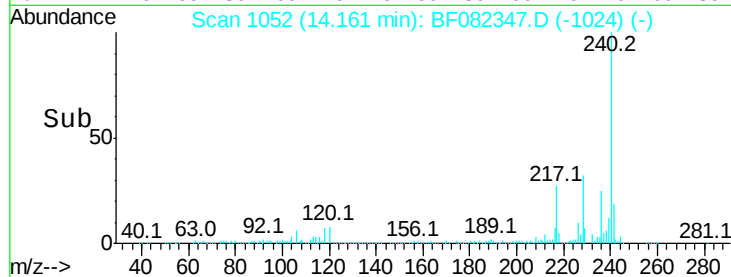
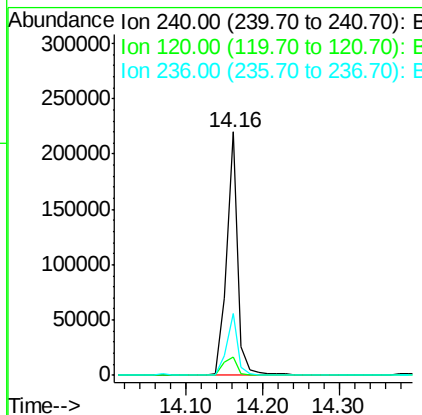
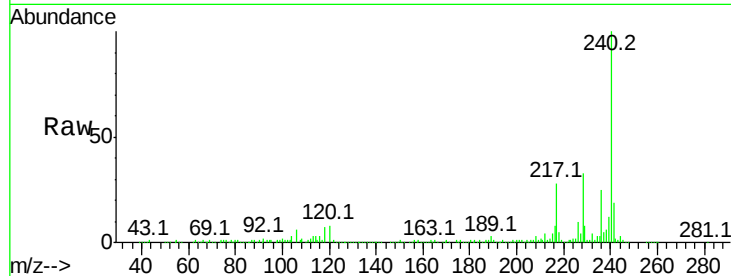
ClientSampled :

KW-3

Tot Ion:	240	Resp:	227630
Ion Ratio	Lower	Upper	
240	100		
120	7.7	8.1	12.1#
236	25.3	21.3	31.9

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#77

Pyrene

Concen: 56.99 ng

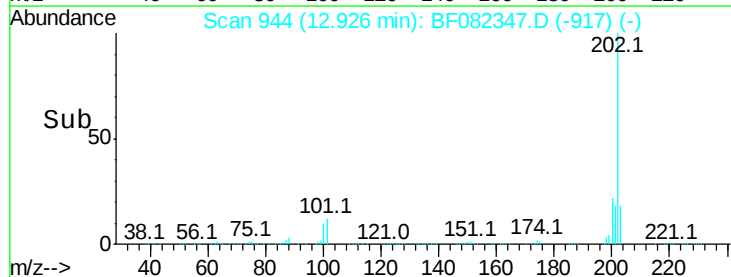
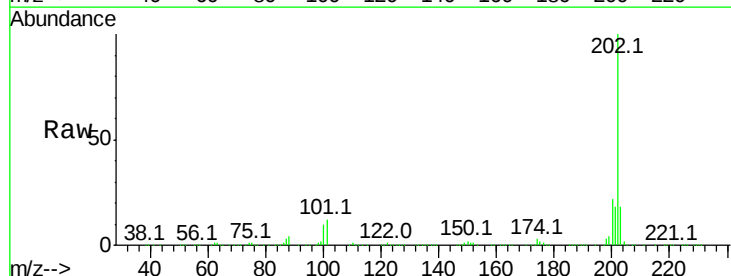
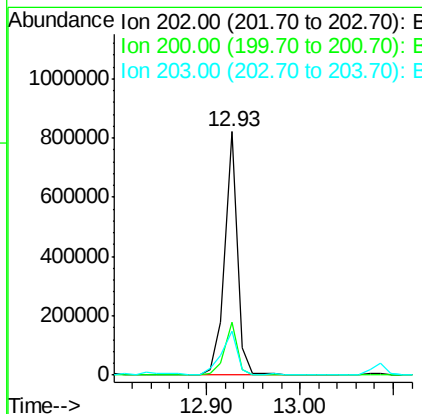
RT: 12.93 min Scan# 944

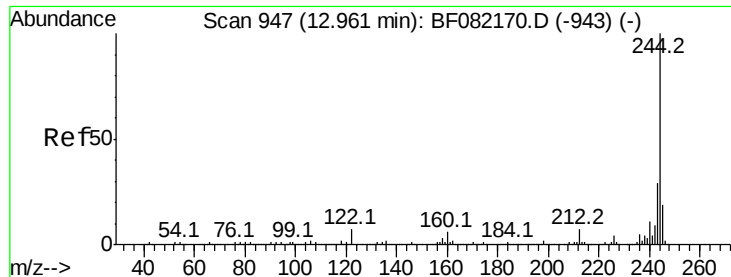
Delta R.T. 0.01 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Tgt Ion:	202	Resp:	769914
Ion Ratio	Lower	Upper	
202	100		
200	21.8	17.9	26.9
203	18.1	14.5	21.7





#78

Terphenyl-d14

Concen: 65.22 ng

RT: 13.06 min Scan# 956

Delta R.T. 0.01 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Instrument :

BNA_F

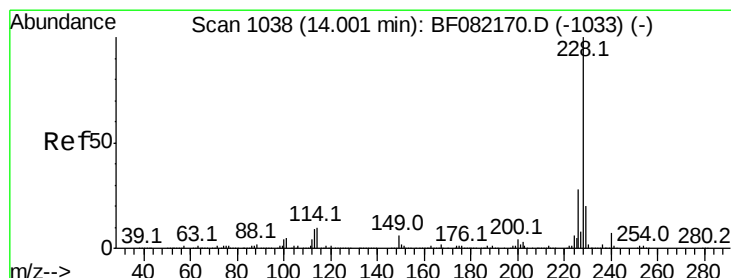
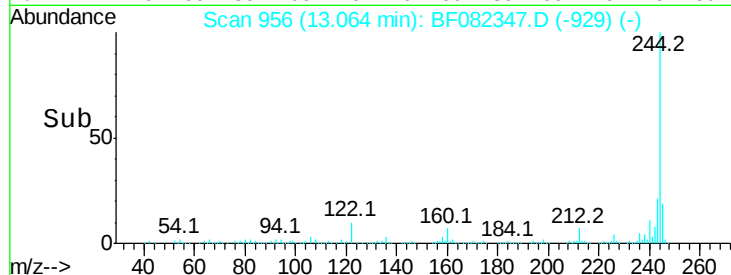
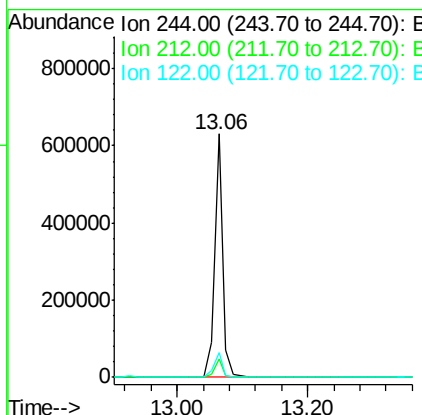
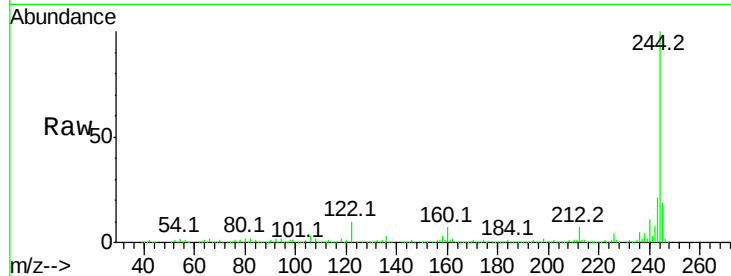
ClientSampleId :

KW-3

Tot Ion:	244	Resp:	560232
Ion Ratio	Lower	Upper	
244	100		
212	7.4	5.8	8.6
122	10.0	5.9	8.9#

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 35.15 ng m

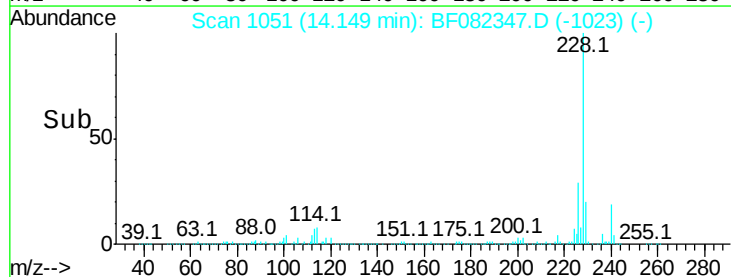
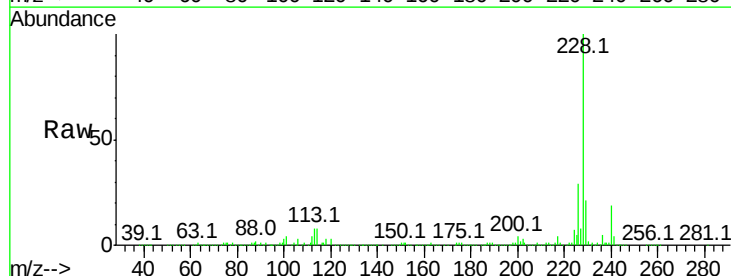
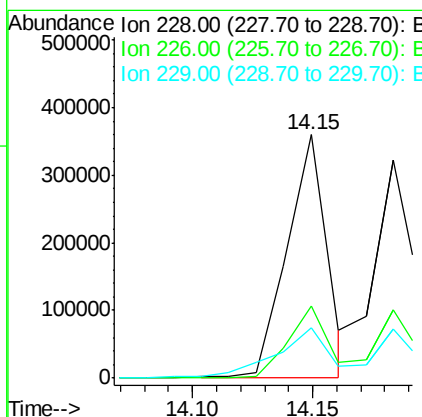
RT: 14.15 min Scan# 1051

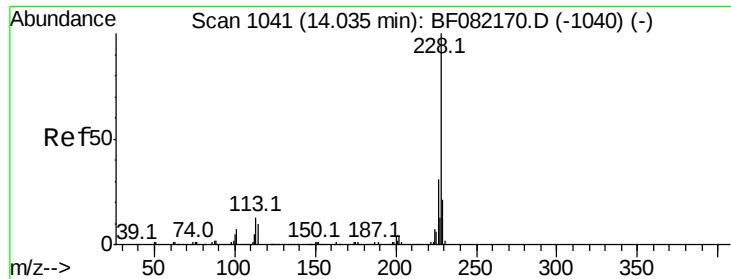
Delta R.T. 0.02 min

Lab File: BF082347.D

Acq: 17 Oct 2015 2:31

Tgt Ion:	228	Resp:	416252
Ion Ratio	Lower	Upper	
228	100		
226	29.4	22.3	33.5
229	20.5	16.2	24.2





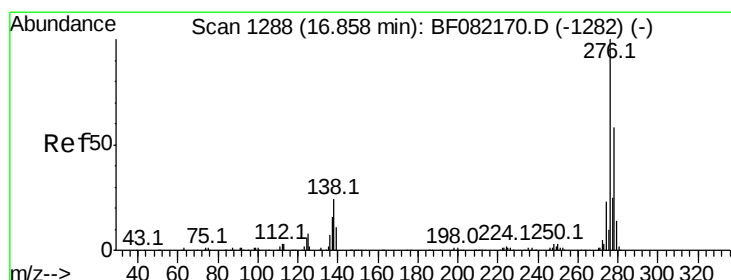
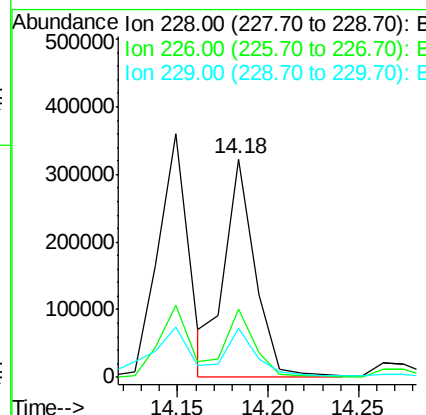
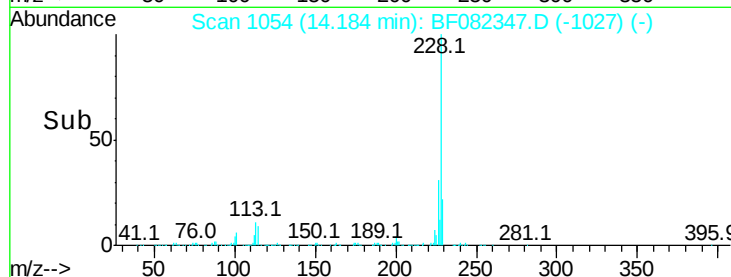
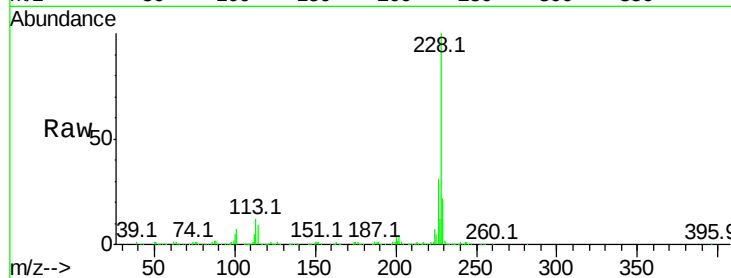
#82
Chrysene
Concen: 30.93 ng/ml
RT: 14.18 min Scan# 1054
Delta R.T. 0.01 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.4	36.6
229	22.2	16.3	24.5

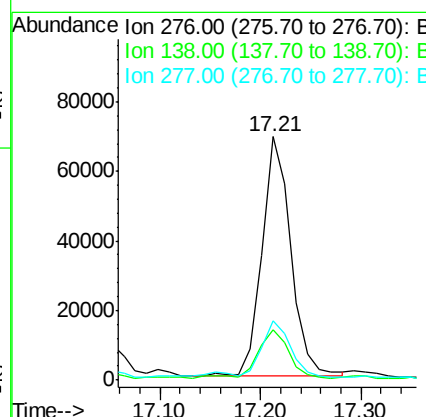
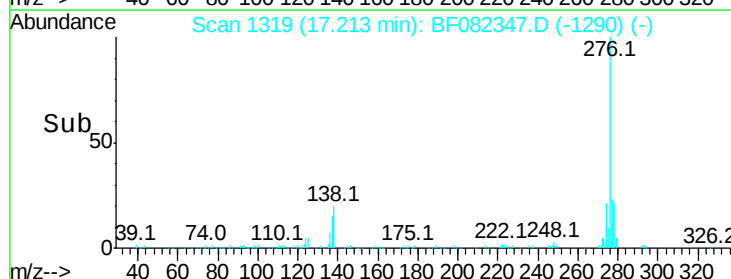
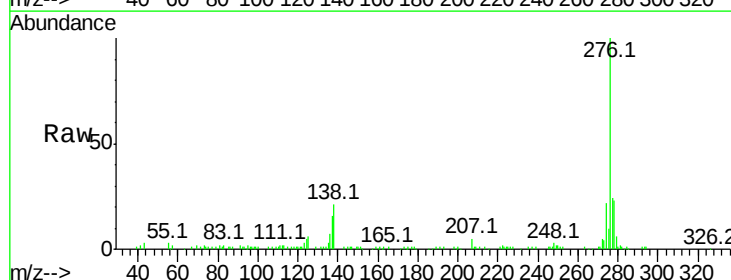
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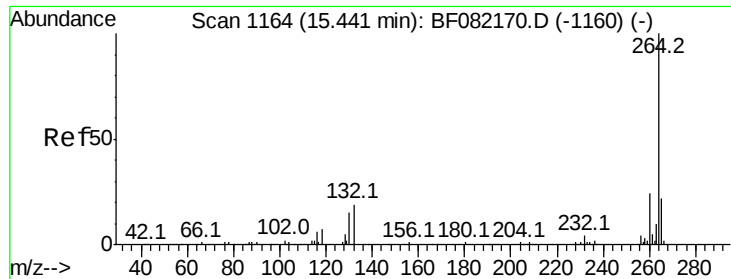
MMdadoda
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#85
Indeno(1,2,3-cd)pyrene
Concen: 13.86 ng
RT: 17.21 min Scan# 1319
Delta R.T. 0.03 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Lower	Upper
276	100		
138	21.2	19.7	29.5
277	23.7	20.1	30.1





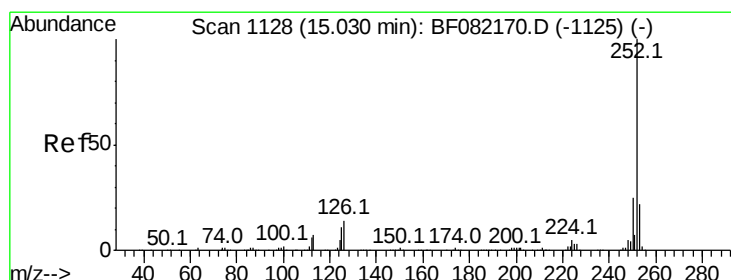
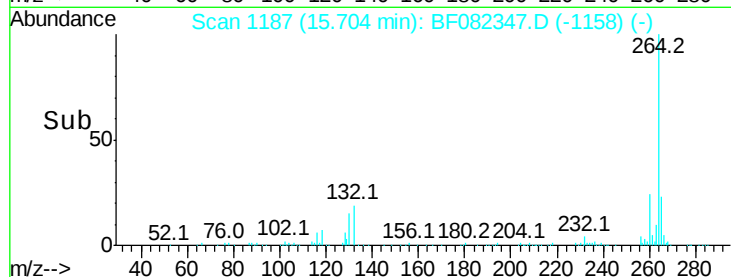
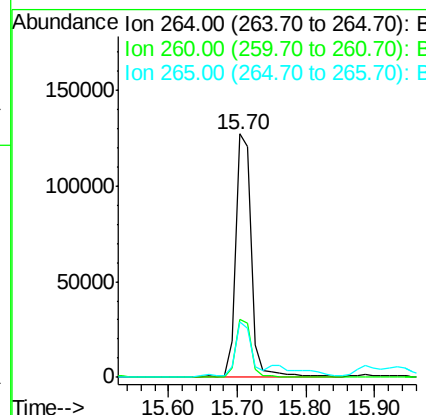
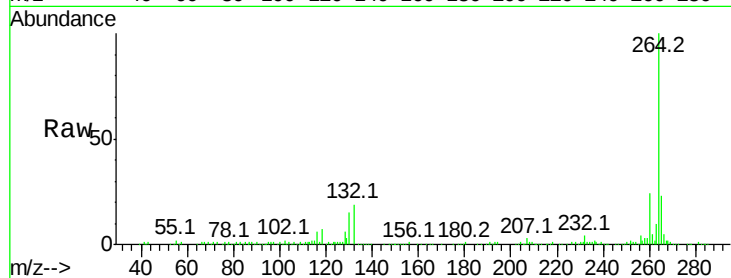
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.70 min Scan# 1187
Delta R.T. 0.03 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.0	28.6
265	22.8	17.3	25.9

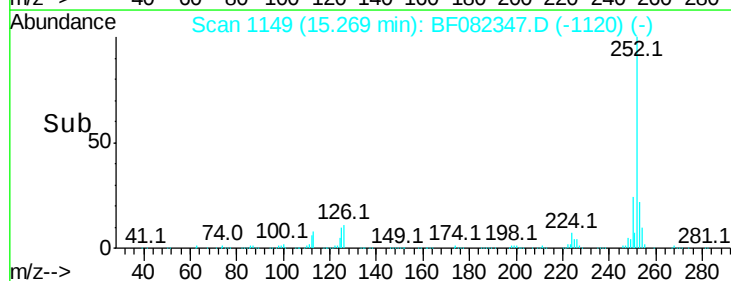
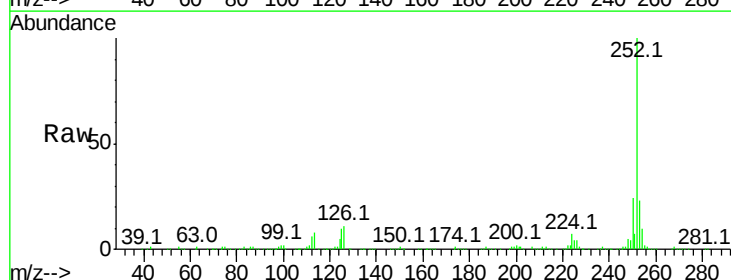
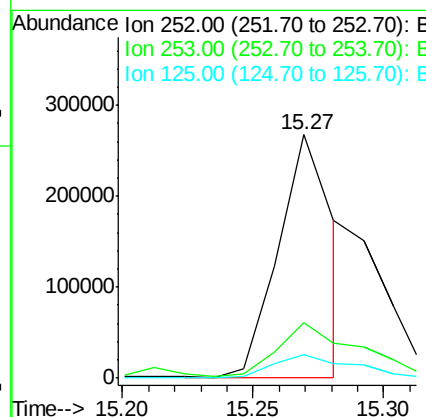
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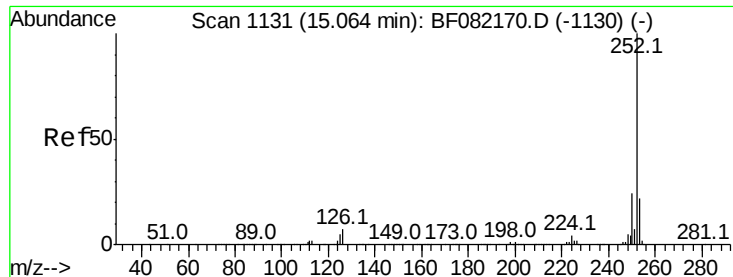
MMdadoda
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#87
Benzo(b)fluoranthene
Concen: 31.24 ng m
RT: 15.27 min Scan# 1149
Delta R.T. 0.03 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.0	27.0
125	9.7	8.6	12.8





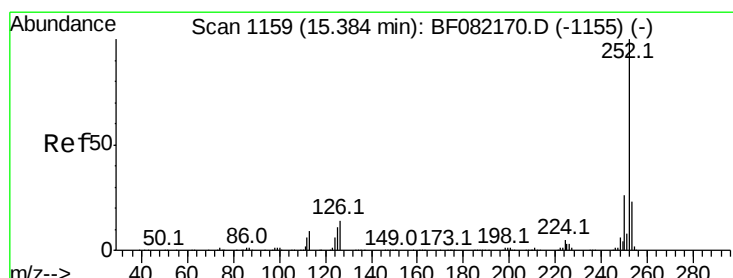
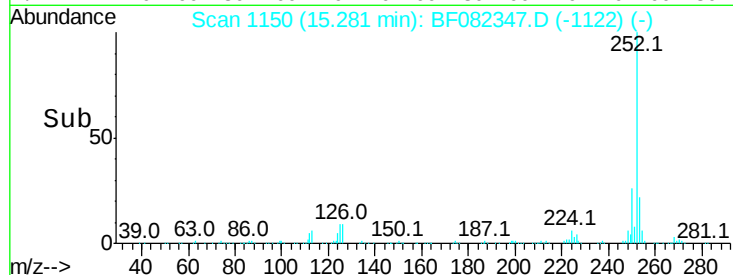
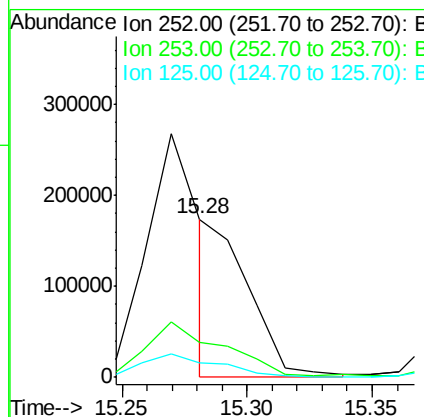
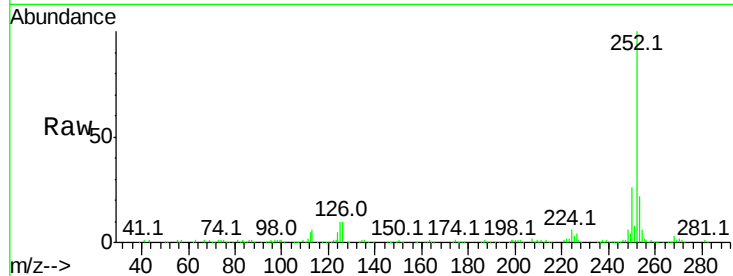
#88
Benzo(k)fluoranthene
Concen: 16.22 ng m
RT: 15.28 min Scan# 1150
Delta R.T. 0.02 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.4	17.8	26.6
125	9.6	6.7	10.1

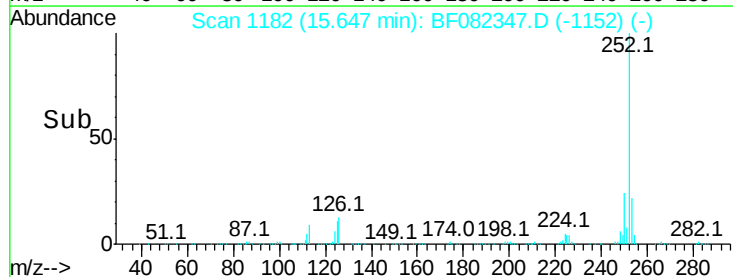
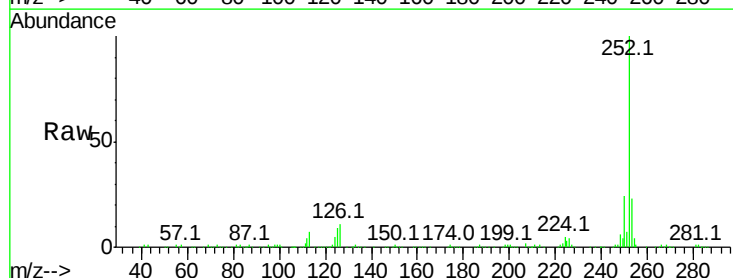
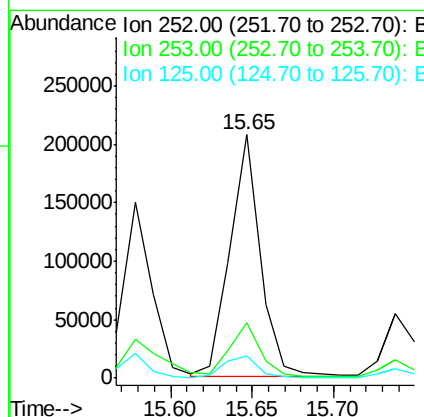
Manual Integrations
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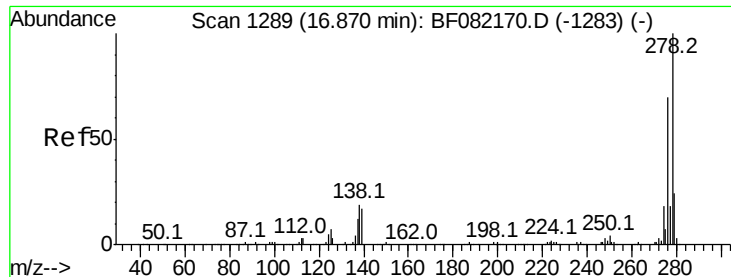
MMdadoda
10/19/2015 5:32:39 PM



#89
Benzo(a)pyrene
Concen: 24.54 ng
RT: 15.65 min Scan# 1182
Delta R.T. 0.05 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	22.9	18.2	27.2
125	9.1	8.9	13.3





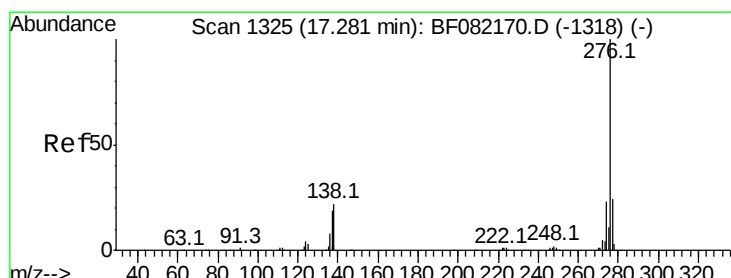
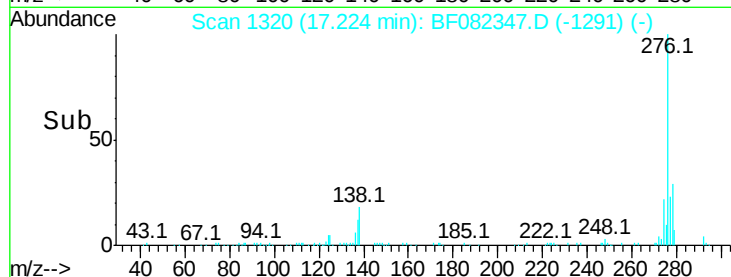
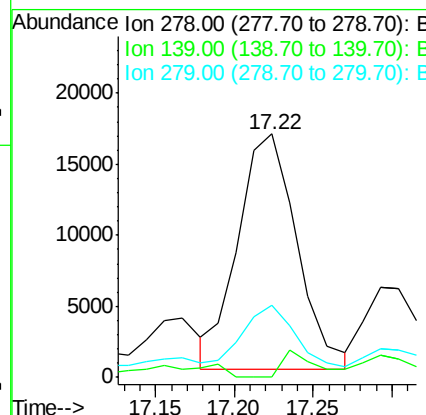
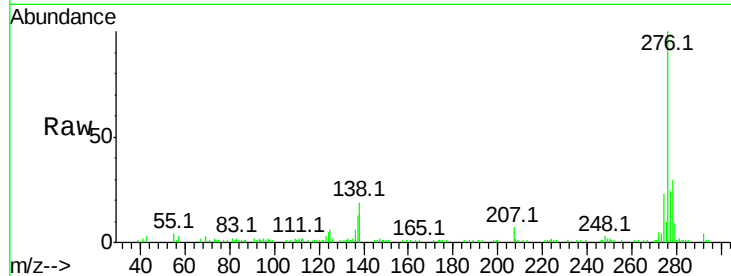
#90
Dibenzo(a,h)anthracene
Concen: 4.85 ng/mL
RT: 17.22 min Scan# 1320
Delta R.T. 0.03 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Instrument :
BNA_F
ClientSampleId :
KW-3

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.3	19.9#
279	29.6	18.9	28.3#

Manual Integrations
APPROVED

MMdadoda
10/19/2015 5:32:39 PM



#91
Benzo(g,h,i)perylene
Concen: 13.83 ng/mL
RT: 17.67 min Scan# 1359
Delta R.T. 0.05 min
Lab File: BF082347.D
Acq: 17 Oct 2015 2:31

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.2	18.8	28.2
138	22.0	17.4	26.2

