

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082348.D
 Acq On : 17 Oct 2015 2:59
 Operator : UM/IZ
 Sample : G4016-12 10X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Manual Integrations
 APPROVED

MMdadoda
 10/19/2015 5:32:41 PM

Quant Time: Oct 17 04:43:10 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	6.96	152	54733	20.00	ng	0.01
21) Naphthalene-d8	8.24	136	235502	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	128357	20.00	ng	0.00
63) Phenanthrene-d10	11.47	188	247190	20.00	ng	0.00
75) Chrysene-d12	14.15	240	217795	20.00	ng	0.01
86) Perylene-d12	15.68	264	214762	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.58	112	11438	4.22	ng	0.01
7) Phenol-d6	6.59	99	17454	4.95	ng	0.00
23) Nitrobenzene-d5	7.53	82	9528	2.72	ng	0.01
41) 2,4,6-Tribromophenol	10.78	330	6323	5.25	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	29756	3.84	ng	0.01
78) Terphenyl-d14	13.05	244	36455	4.44	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.26	128	31157	3.05	ng	98
37) 2-Methylnaphthalene	8.95	142	21877	3.09	ng	98
48) Acenaphthylene	9.85	152	188383	15.69	ng	99
51) Acenaphthene	10.02	154	22926	3.18	ng	97
54) Dibenzofuran	10.19	168	93476	9.45	ng	95
57) Fluorene	10.54	166	91602	11.27	ng	99
70) Phenanthrene	11.51	178	1501341	123.91	ng	98
71) Anthracene	11.56	178	404814	32.42	ng	99
72) Carbazole	11.72	167	238631	20.95	ng	97
74) Fluoranthene	12.70	202	1433237	110.14	ng	95
77) Pyrene	12.93	202	1097783	84.93	ng	99
80) Benzo(a)anthracene	14.14	228	705435m	62.25	ng	
82) Chrysene	14.17	228	607711m	50.90	ng	
85) Indeno(1,2,3-cd)pyrene	17.19	276	256806	27.06	ng	97
87) Benzo(b)fluoranthene	15.25	252	694829m	53.18	ng	
88) Benzo(k)fluoranthene	15.27	252	257176m	23.42	ng	
89) Benzo(a)pyrene	15.61	252	434425	38.69	ng	98
90) Dibenzo(a,h)anthracene	17.19	278	92711m	10.08	ng	
91) Benzo(a,h,i)perylene	17.64	276	214164	23.96	ng	98

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

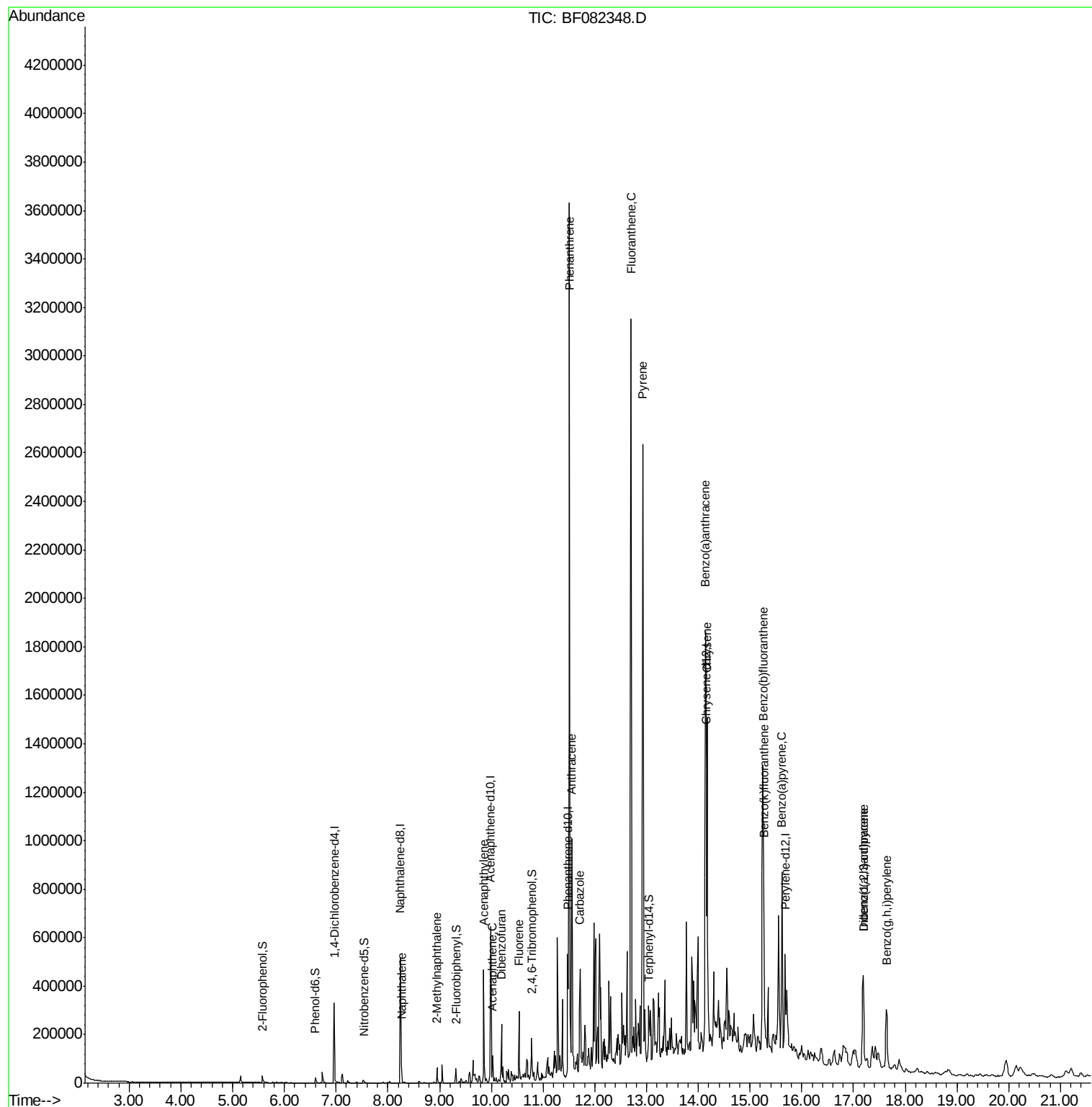
Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
Data File : BF082348.D
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ALS Vial : 28 Sample Multiplier: 1

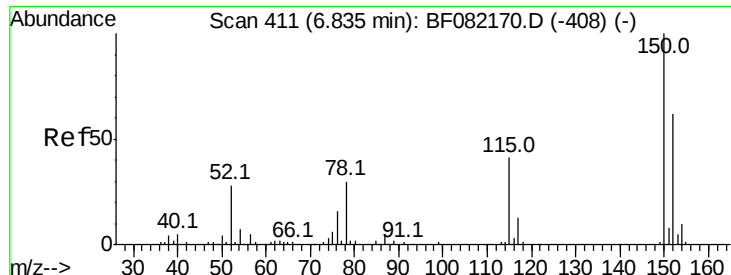
Instrument :
BNA_F
ClientSampleId :
CS-13

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#1

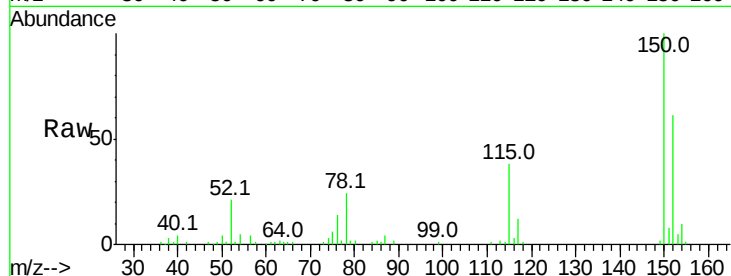
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.96 min Scan# 422
Delta R.T. 0.01 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.9	129.0	193.4
115	61.5	52.1	78.1

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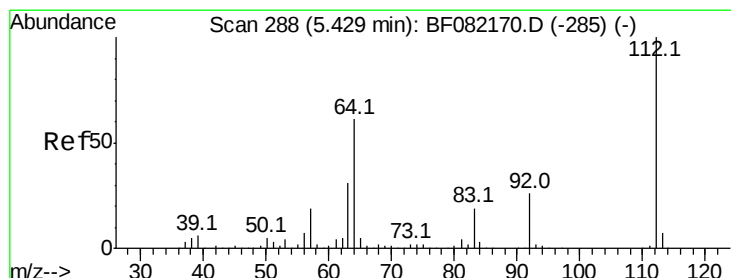
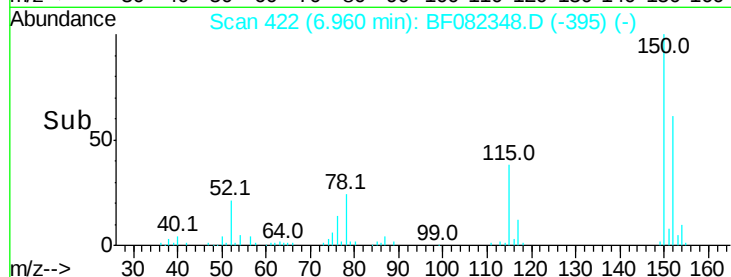
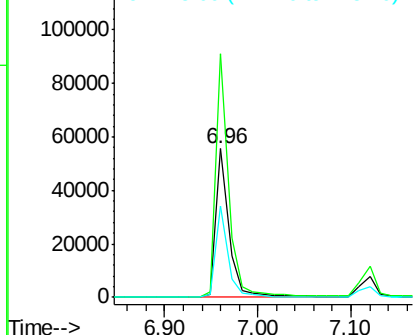


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

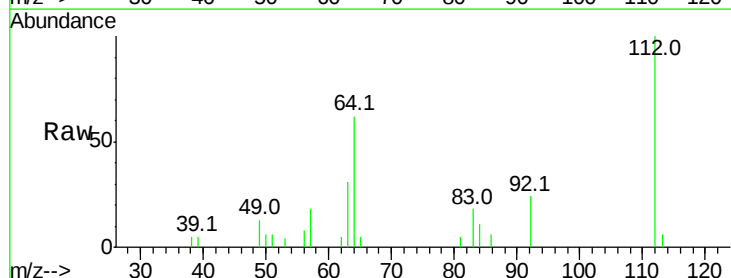
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 4.22 ng
RT: 5.58 min Scan# 301
Delta R.T. 0.01 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Tgt Ion	Ratio	Lower	Upper
112	100		
64	61.9	48.6	73.0
63	30.8	25.1	37.7

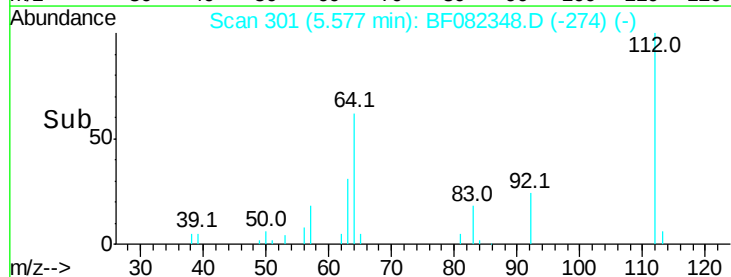
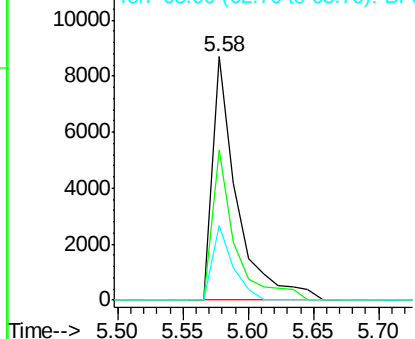


Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 4.95 ng

RT: 6.59 min Scan# 390

Delta R.T. 0.00 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Instrument :

BNA_F

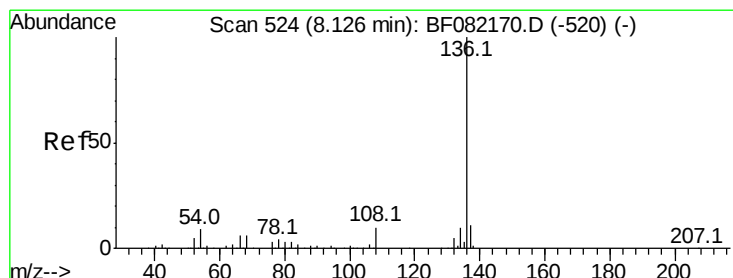
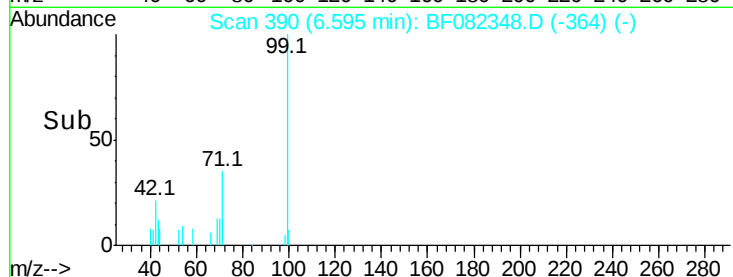
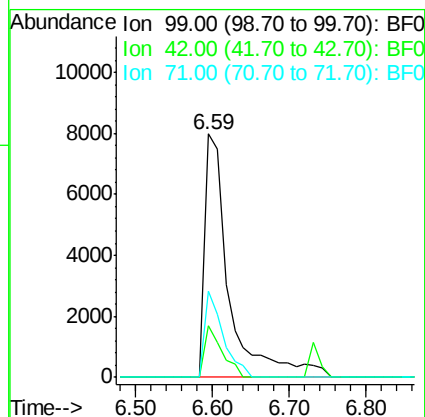
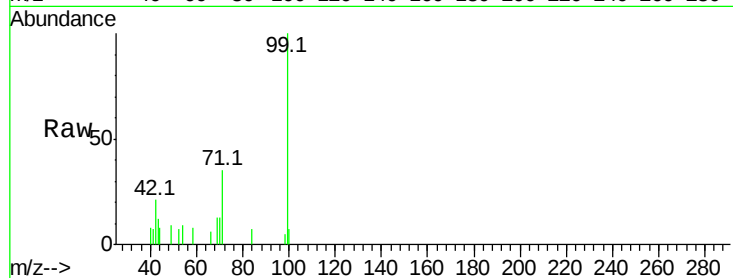
ClientSampled :

CS-13

Tot Ion:	99	Resp:	17454
Ion Ratio	Lower	Upper	
99	100		
42	21.0	13.2	19.8#
71	35.3	25.6	38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

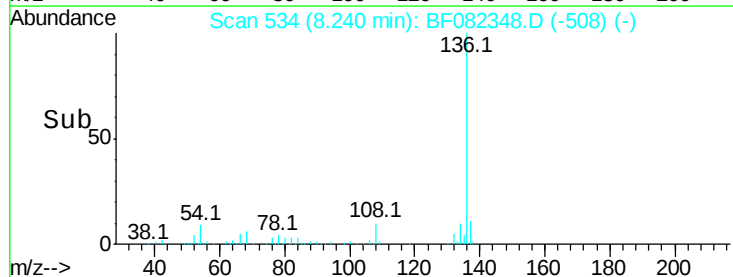
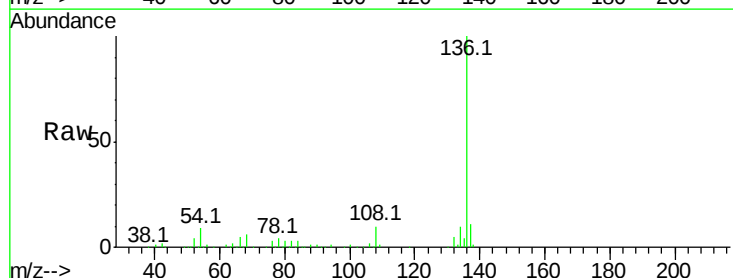
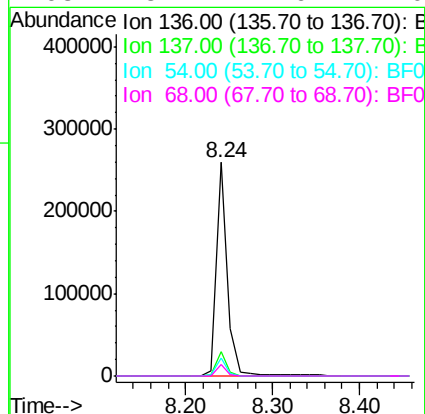
RT: 8.24 min Scan# 534

Delta R.T. 0.00 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Tgt Ion:	136	Resp:	235502
Ion Ratio	Lower	Upper	
136	100		
137	11.2	9.0	13.6
54	8.7	7.5	11.3
68	5.7	4.6	7.0





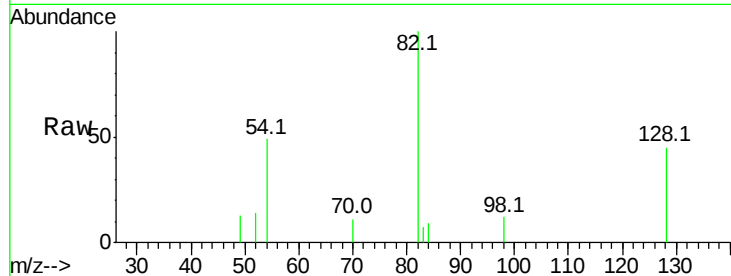
#23
 Nitrobenzene-d5
 Concen: 2.72 ng
 RT: 7.53 min Scan# 472
 Delta R.T. 0.01 min
 Lab File: BF082348.D
 Acq: 17 Oct 2015 2:59

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

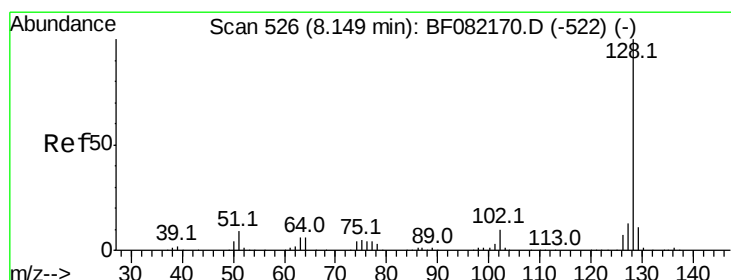
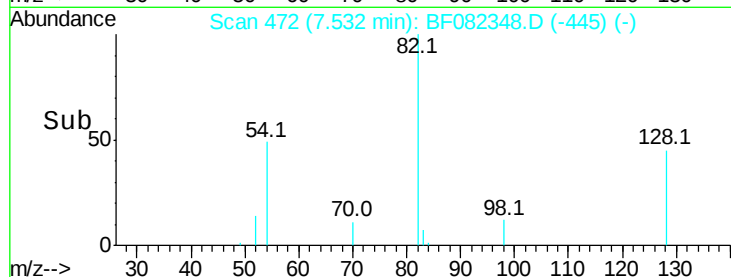
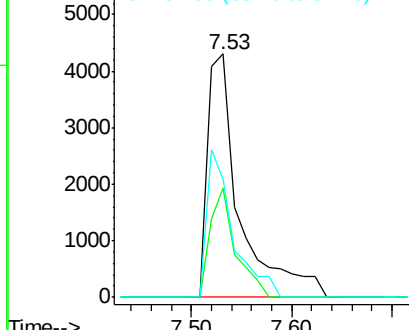
Tot Ion	Ratio	Lower	Upper
82	100		
128	44.8	38.7	58.1
54	48.8	40.1	60.1

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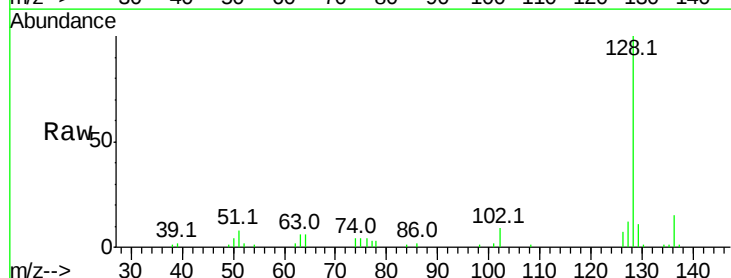


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

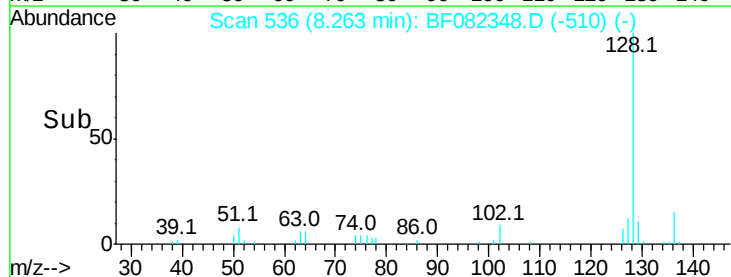
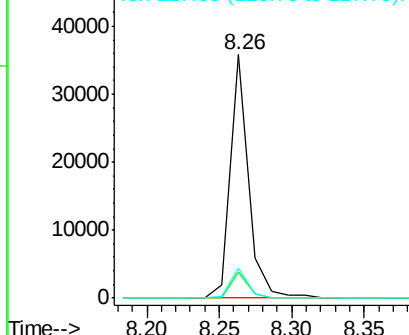


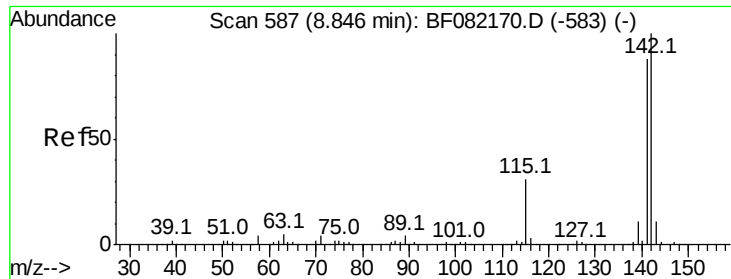
#31
 Naphthalene
 Concen: 3.05 ng
 RT: 8.26 min Scan# 536
 Delta R.T. 0.00 min
 Lab File: BF082348.D
 Acq: 17 Oct 2015 2:59

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.6	9.1	13.7
127	12.3	10.7	16.1



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





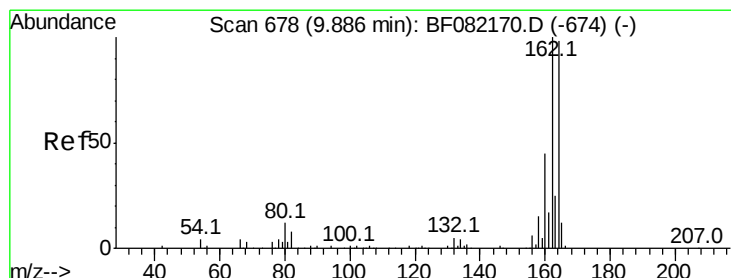
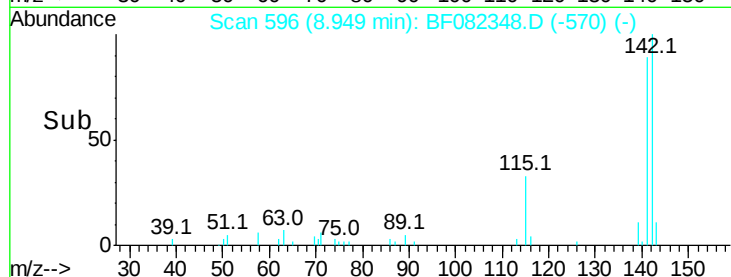
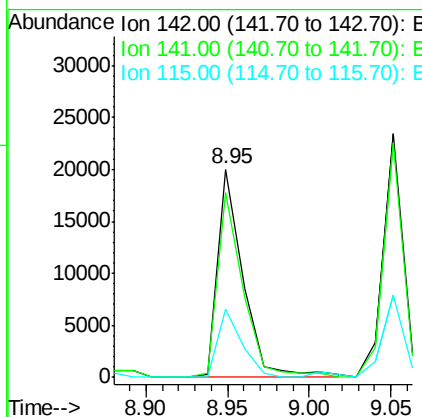
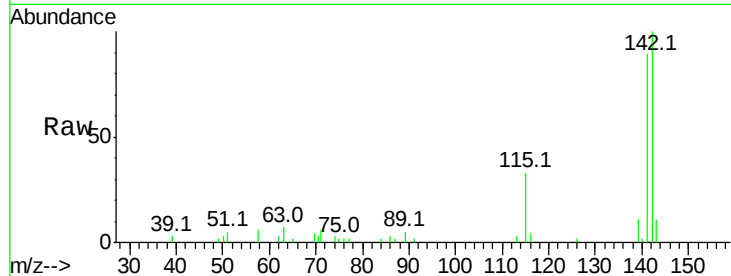
#37
2-Methylnaphthalene
Concen: 3.09 ng
RT: 8.95 min Scan# 596
Delta R.T. 0.00 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	70.4	105.6
115	33.0	24.6	37.0

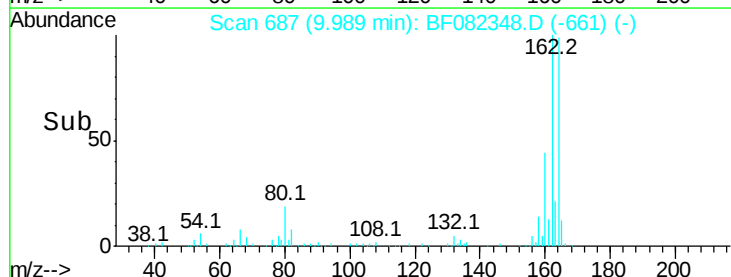
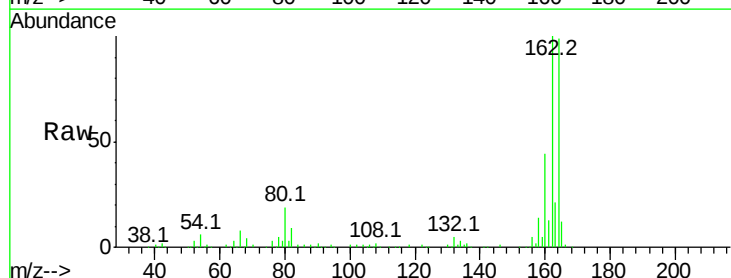
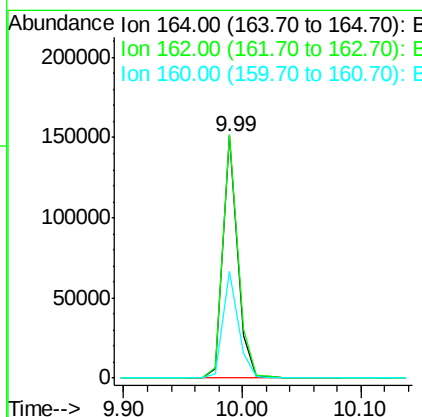
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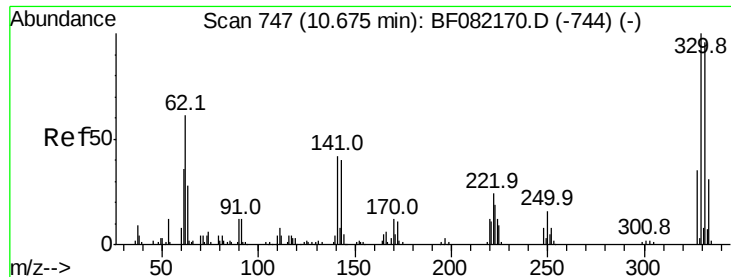
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.99 min Scan# 687
Delta R.T. 0.00 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Tgt Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.6	122.4
160	44.3	36.4	54.6





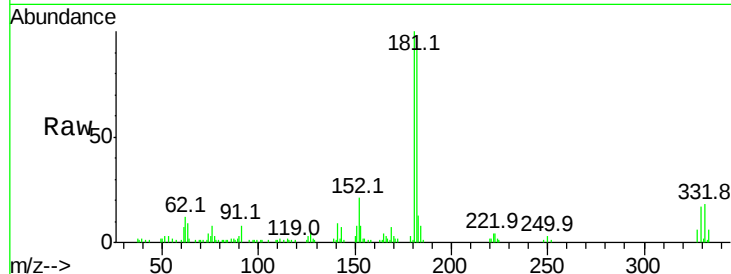
#41
 2,4,6-Tribromophenol
 Concen: 5.25 ng
 RT: 10.78 min Scan# 756
 Delta R.T. 0.00 min
 Lab File: BF082348.D
 Acq: 17 Oct 2015 2:59

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

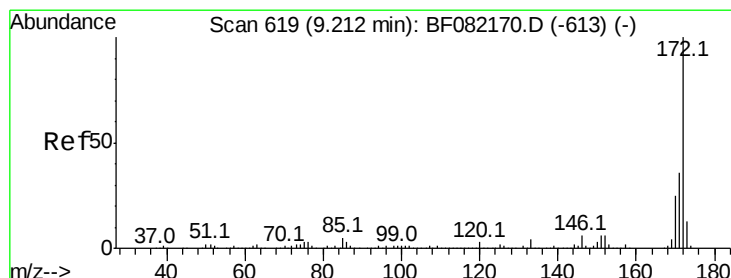
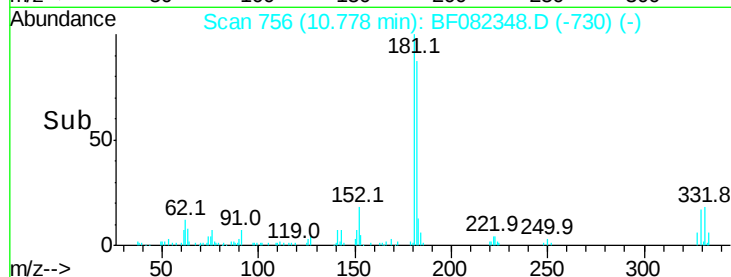
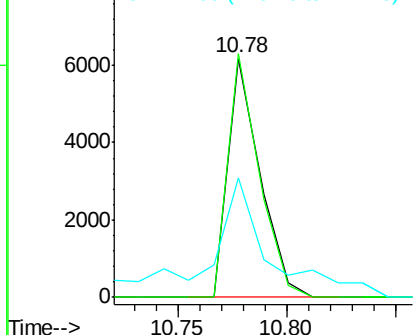
Tot Ion	Ratio	Lower	Upper
330	100		
332	99.0	77.1	115.7
141	87.9	29.8	44.8#

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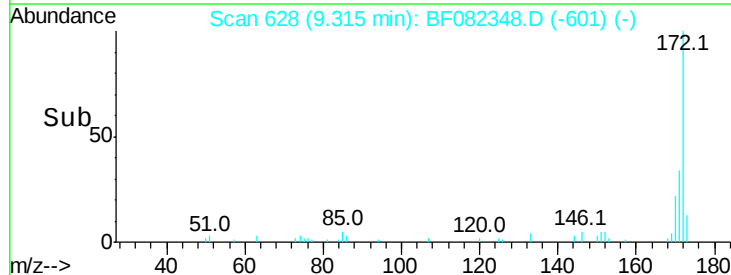
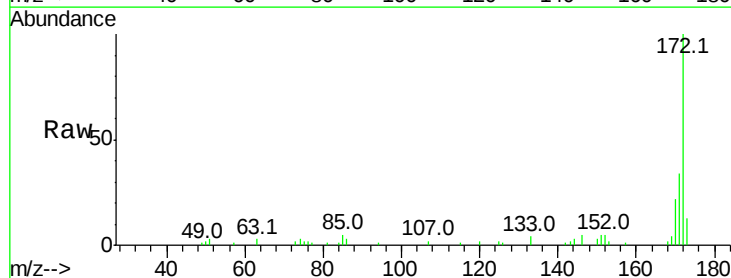
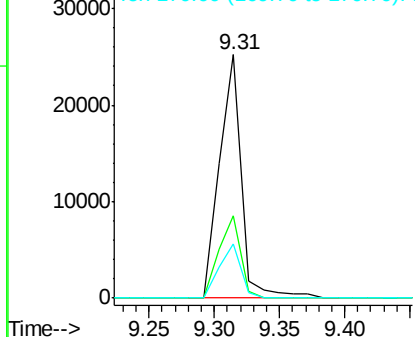
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

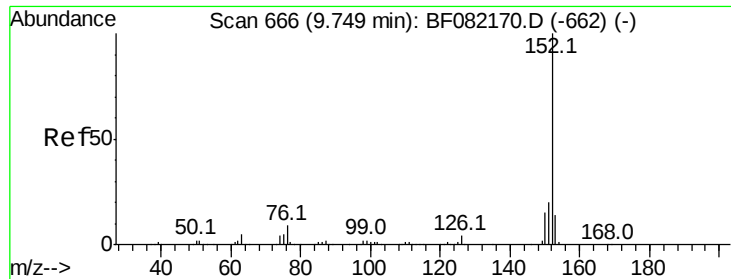


#44
 2-Fluorobiphenyl
 Concen: 3.84 ng
 RT: 9.31 min Scan# 628
 Delta R.T. 0.01 min
 Lab File: BF082348.D
 Acq: 17 Oct 2015 2:59

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.9	28.6	42.8
170	22.3	19.7	29.5

Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





#48

Acenaphthylene

Concen: 15.69 ng

RT: 9.85 min Scan# 675

Delta R.T. 0.00 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Instrument :

BNA_F

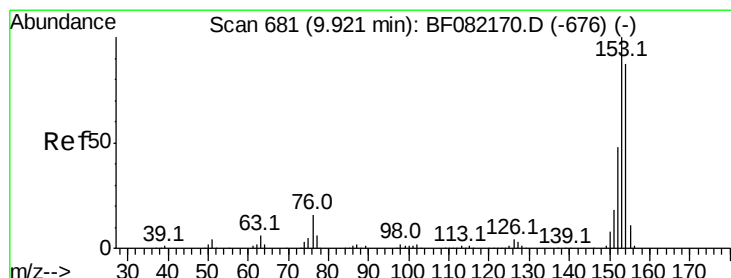
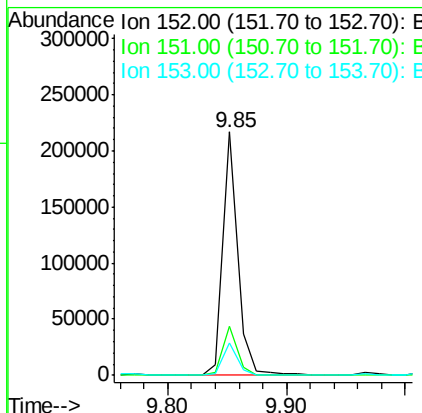
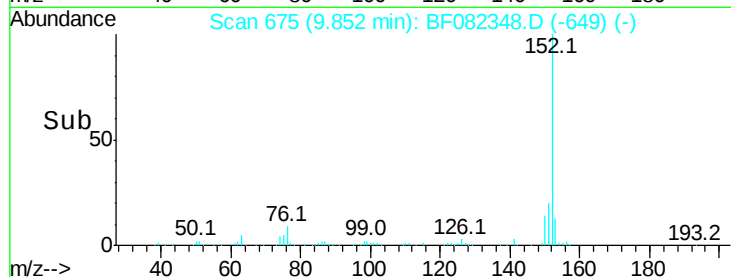
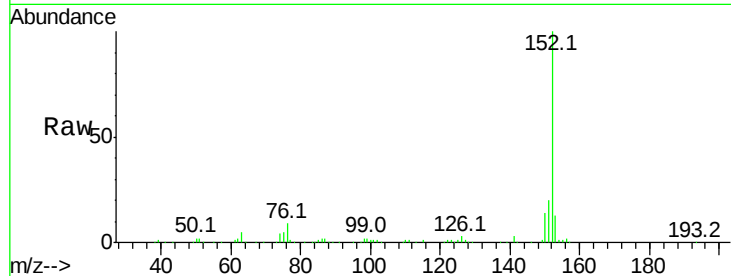
ClientSampleId :

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Tot Ion:	152	Resp:	188383
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.4	24.6
153	13.3	10.8	16.2

Manual Integrations
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#51

Acenaphthene

Concen: 3.18 ng

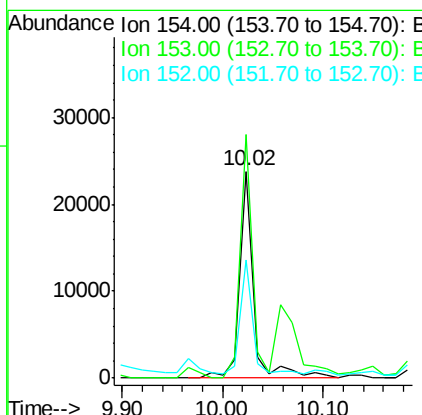
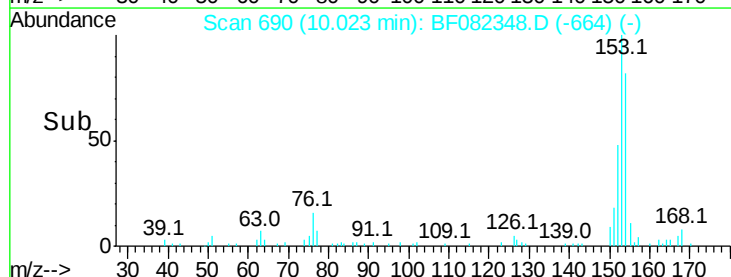
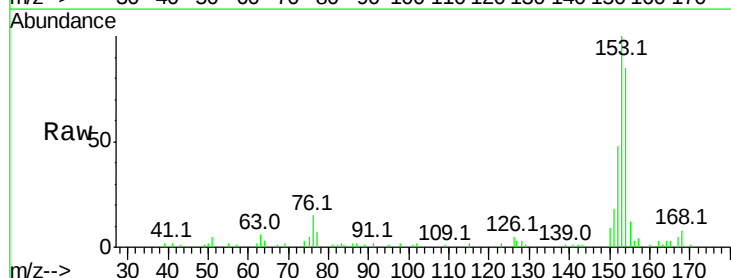
RT: 10.02 min Scan# 690

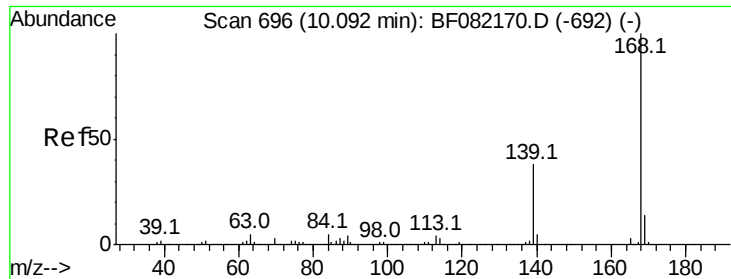
Delta R.T. 0.00 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Tgt Ion:	154	Resp:	22926
Ion Ratio	Lower	Upper	
154	100		
153	117.9	91.4	137.2
152	57.2	44.3	66.5





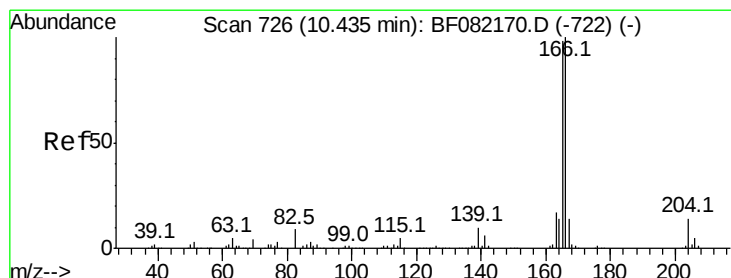
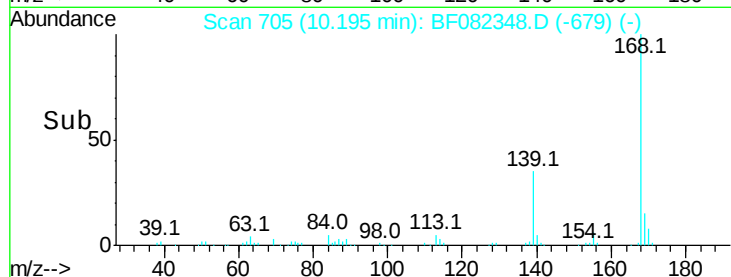
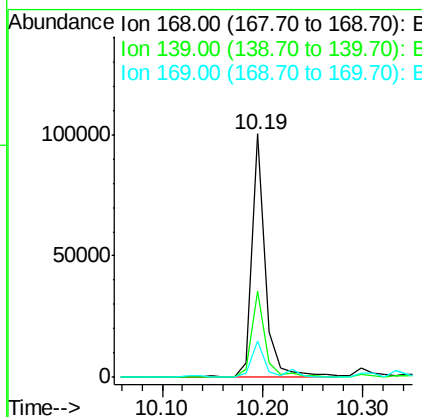
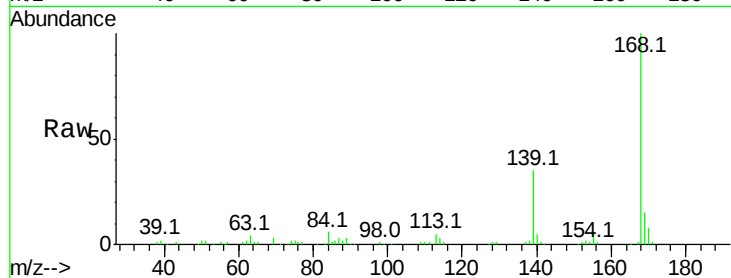
#54
Dibenzenofuran
Concen: 9.45 ng
RT: 10.19 min Scan# 705
Delta R.T. 0.00 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Instrument :
BNA_F
ClientSampled :
CS-13

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	35.5		31.0	46.6
169	14.8		10.9	16.3

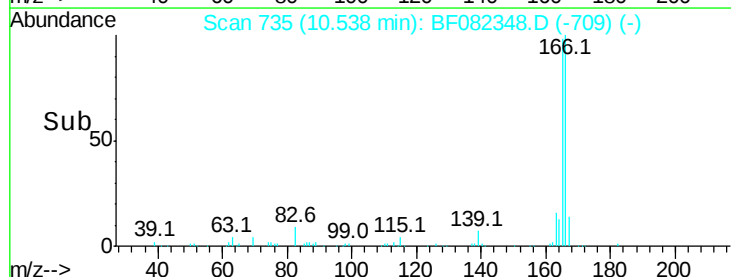
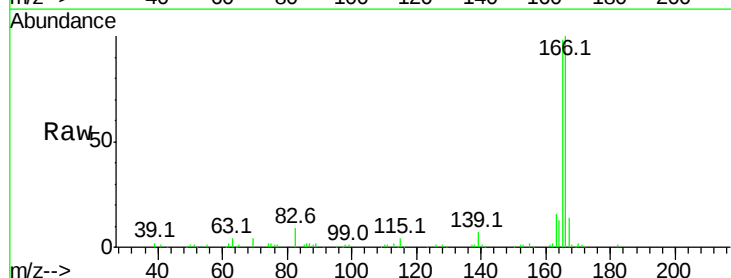
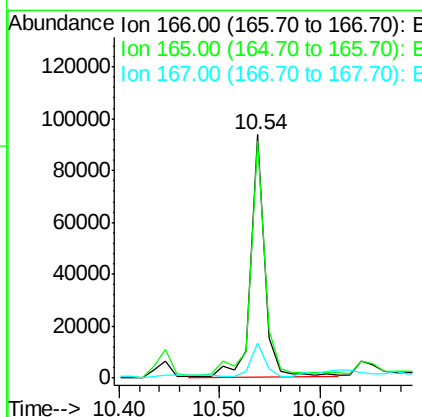
Manual Integrations
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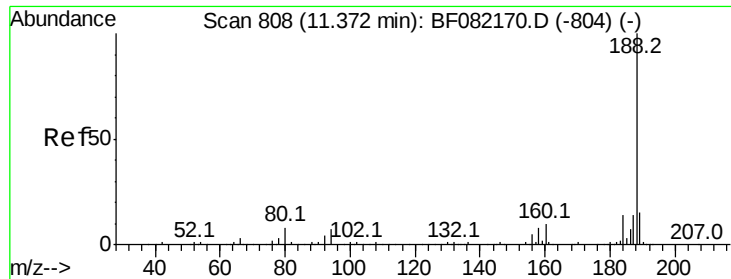
MMdadoda
10/19/2015 5:32:41 PM



#57
Fluorene
Concen: 11.27 ng
RT: 10.54 min Scan# 735
Delta R.T. 0.00 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	97.6		78.3	117.5
167	14.2		10.8	16.2





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.47 min Scan# 817

Delta R.T. 0.00 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Instrument :

BNA_F

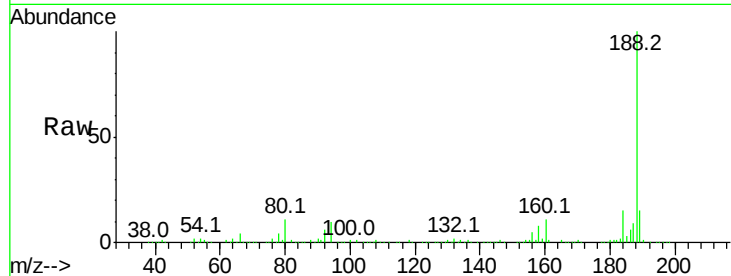
ClientSampled :

CS-13

Tot Ion:	188	Resp:	247190
Ion Ratio	Lower	Upper	
188	100		
94	10.0	5.8	8.6#
80	11.4	6.4	9.6#

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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

11.47

250000

200000

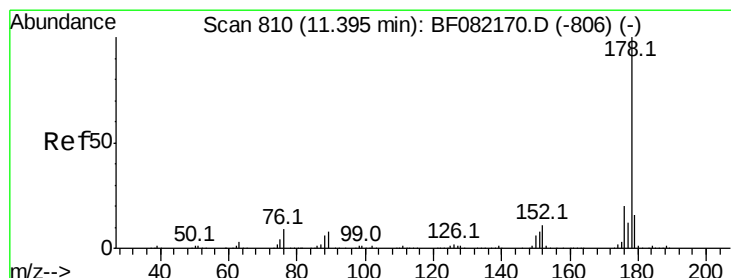
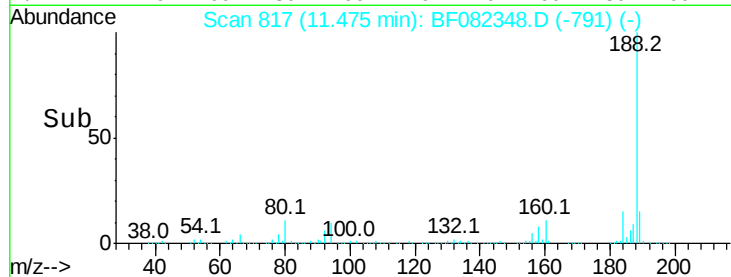
150000

100000

50000

0

Time-->



#70

Phenanthrene

Concen: 123.91 ng

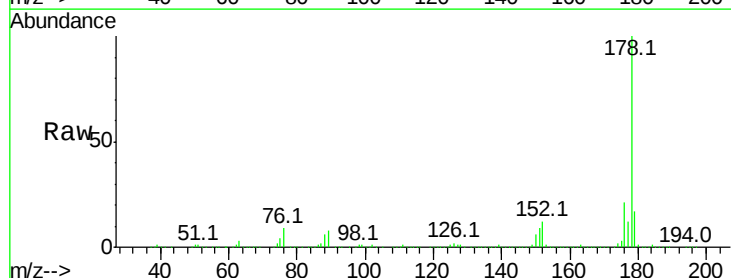
RT: 11.51 min Scan# 820

Delta R.T. 0.01 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Tgt Ion:	178	Resp:	1501341
Ion Ratio	Lower	Upper	
178	100		
176	21.1	16.0	24.0
179	16.5	12.6	19.0



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

2000000

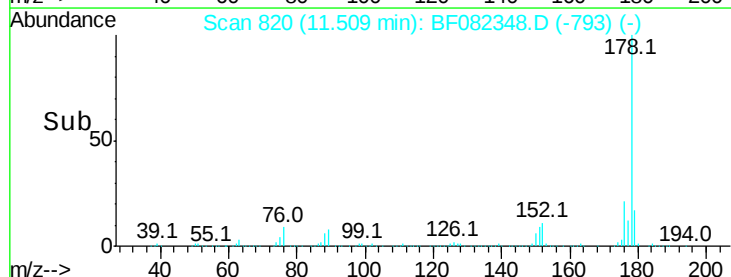
1500000

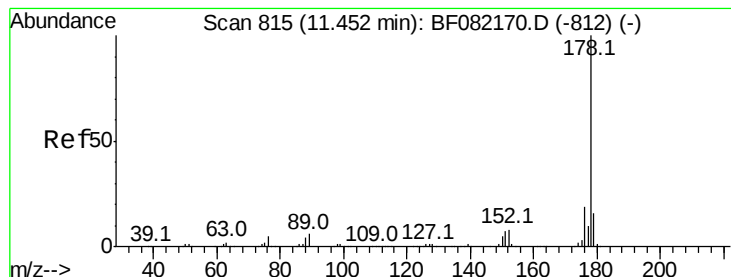
1000000

500000

0

Time-->





#71

Anthracene

Concen: 32.42 ng

RT: 11.56 min Scan# 824

Delta R.T. 0.01 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Instrument :

BNA_F

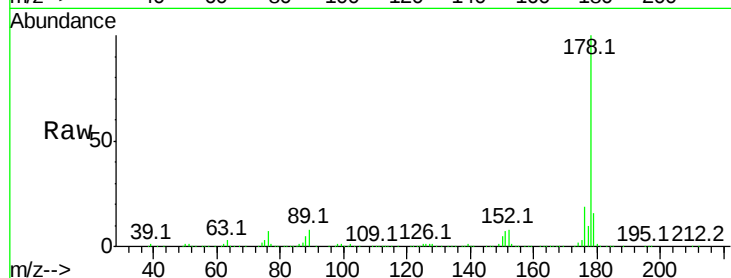
ClientSampleId :

CS-13

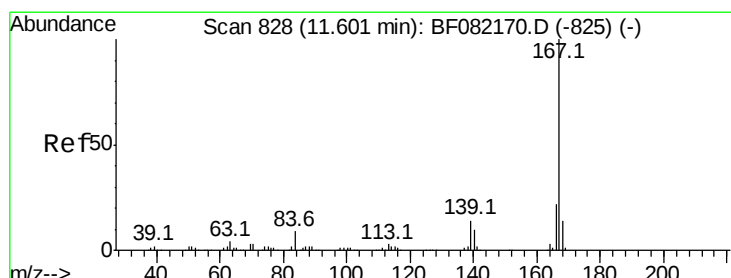
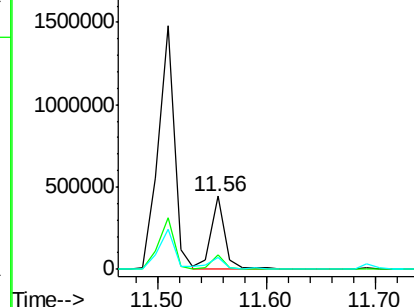
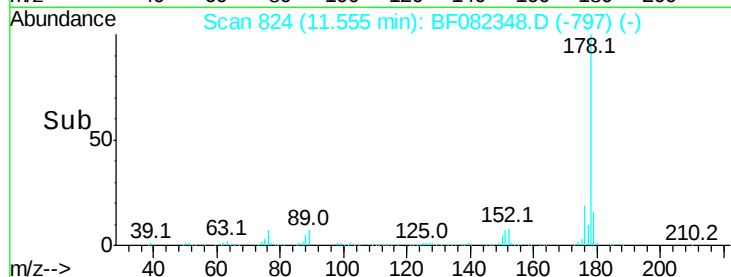
Tot Ion:	178	Resp:	404814
Ion Ratio	Lower	Upper	
178	100		
176	19.0	15.4	23.0
179	16.0	12.5	18.7

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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



#72

Carbazole

Concen: 20.95 ng

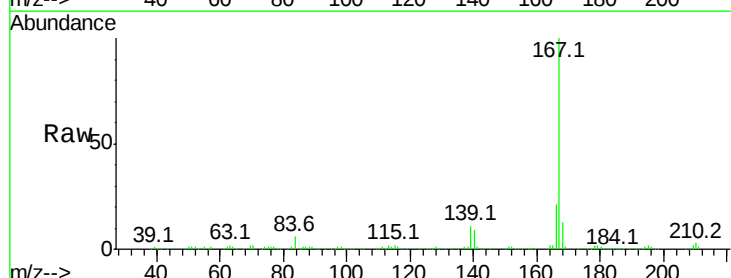
RT: 11.72 min Scan# 838

Delta R.T. 0.01 min

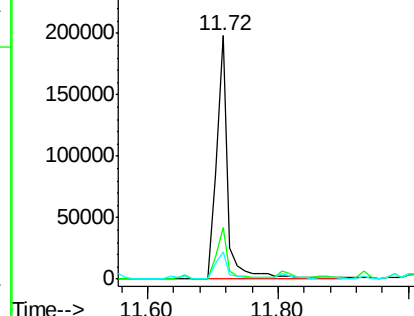
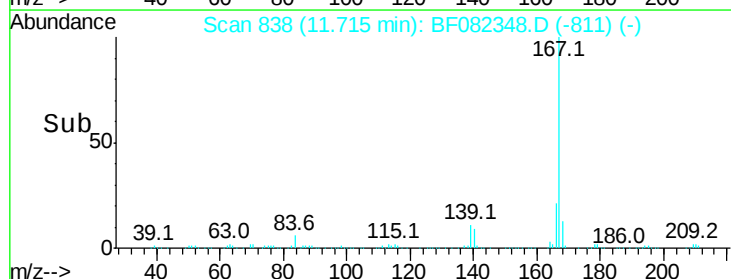
Lab File: BF082348.D

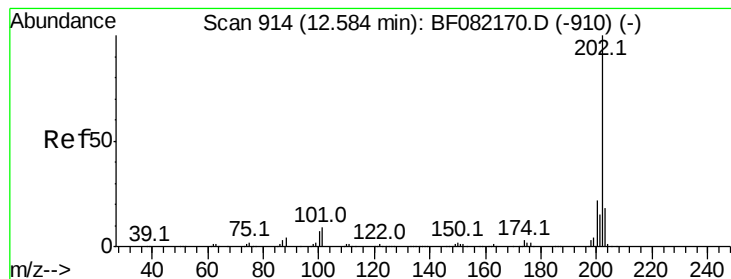
Acq: 17 Oct 2015 2:59

Tgt Ion:	167	Resp:	238631
Ion Ratio	Lower	Upper	
167	100		
166	21.4	17.3	25.9
139	11.4	11.2	16.8



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: 110.14 ng

RT: 12.70 min Scan# 924

Delta R.T. 0.01 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Instrument :

BNA_F

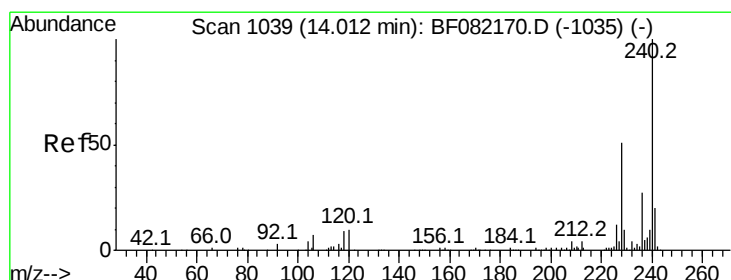
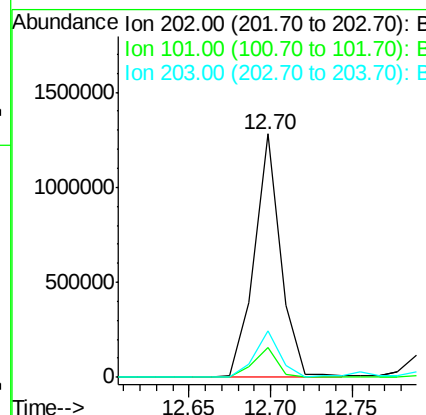
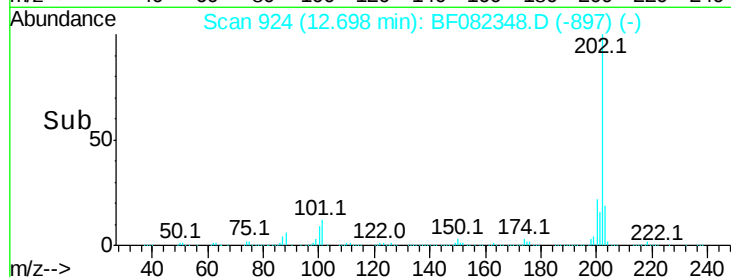
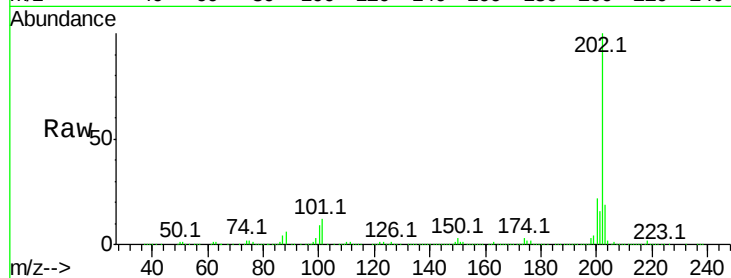
ClientSampleId :

CS-13

Tot Ion:	202	Resp:	1433237
Ion Ratio	Lower	Upper	
202	100		
101	12.0	0.0	29.3
203	19.2	0.0	37.8

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

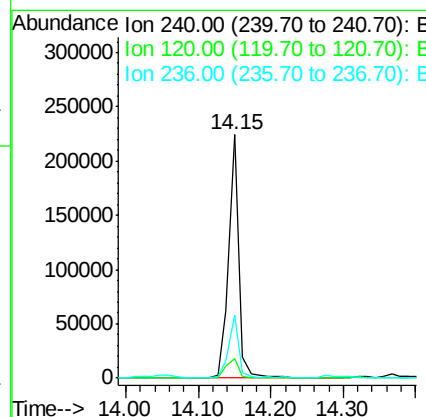
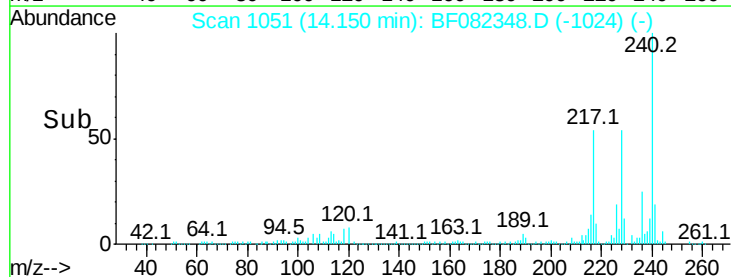
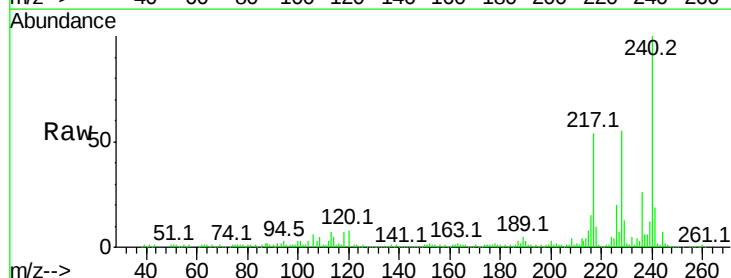
RT: 14.15 min Scan# 1051

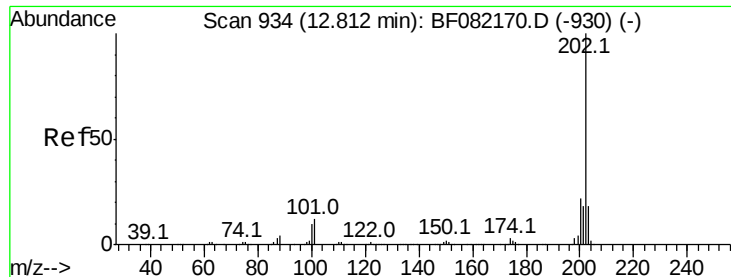
Delta R.T. 0.01 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Tgt Ion:	240	Resp:	217795
Ion Ratio	Lower	Upper	
240	100		
120	7.9	8.1	12.1#
236	26.0	21.3	31.9





#77

Pvrene

Concen: 84.93 ng

RT: 12.93 min Scan# 944

Delta R.T. 0.01 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Instrument :

BNA_F

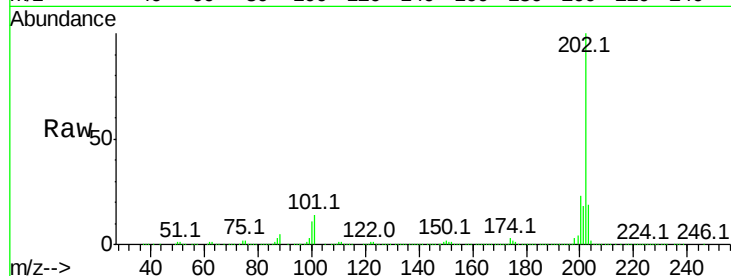
ClientSampleId :

CS-13

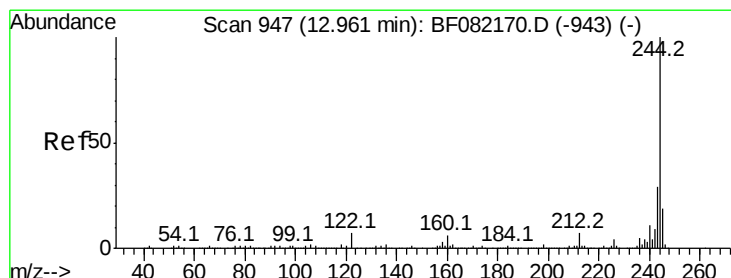
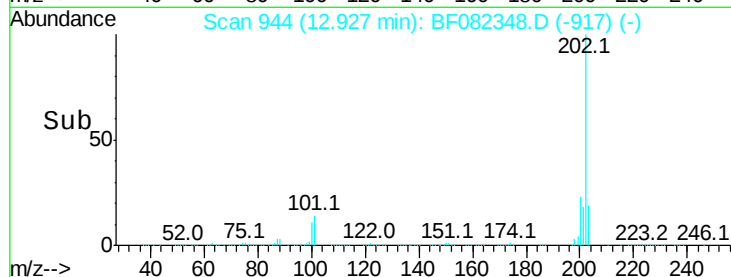
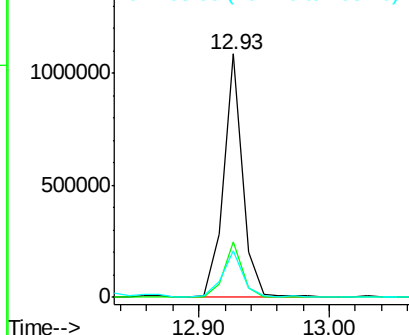
Tot Ion:	202	Resp:	1097783
Ion	Ratio	Lower	Upper
202	100		
200	22.9	17.9	26.9
203	19.0	14.5	21.7

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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: 4.44 ng

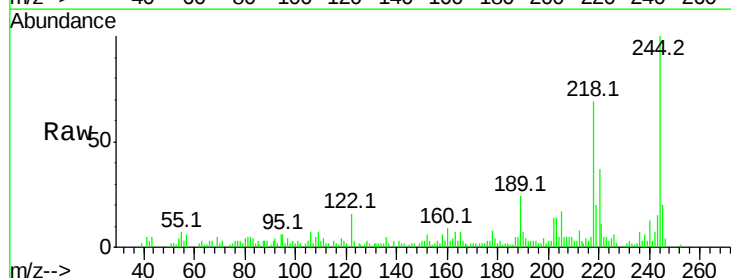
RT: 13.05 min Scan# 955

Delta R.T. 0.00 min

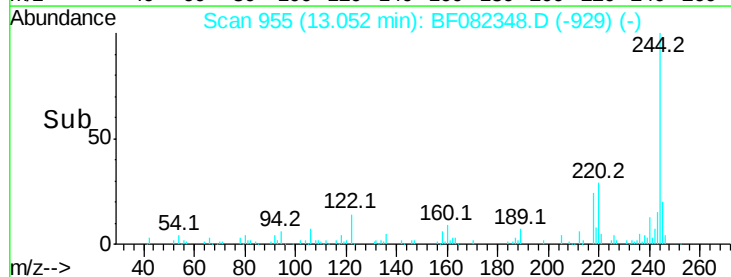
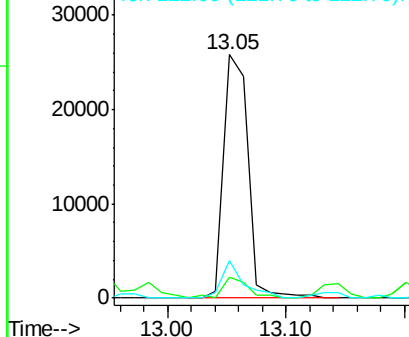
Lab File: BF082348.D

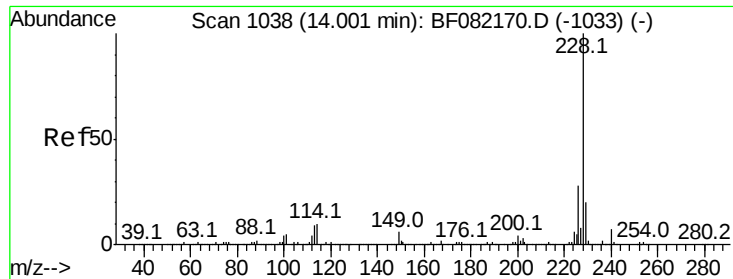
Acq: 17 Oct 2015 2:59

Tgt Ion:	244	Resp:	36455
Ion	Ratio	Lower	Upper
244	100		
212	8.5	5.8	8.6
122	15.6	5.9	8.9#



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





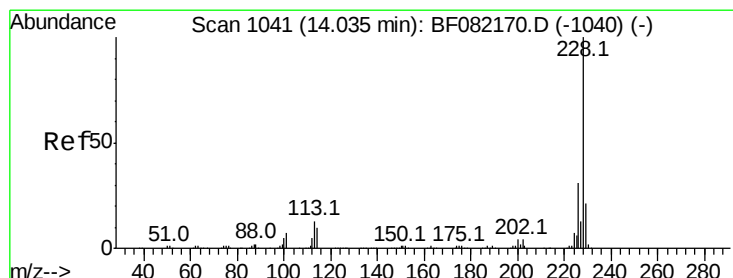
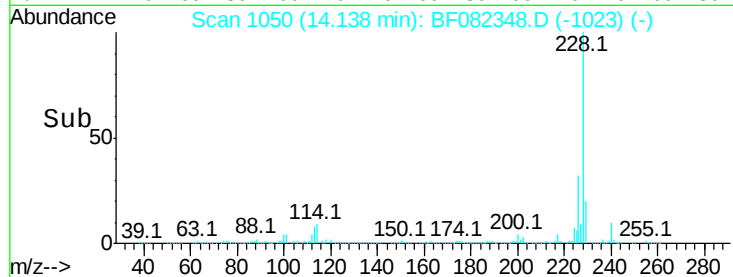
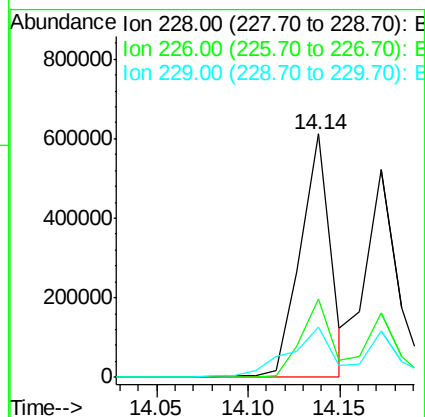
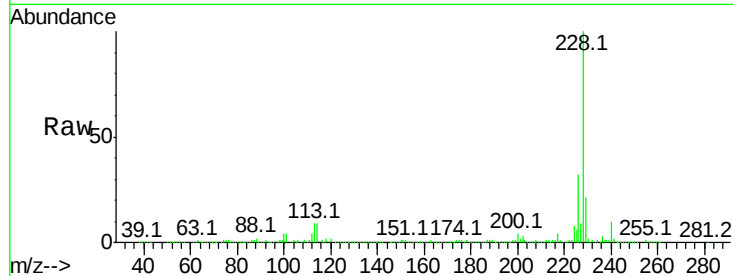
#80
Benzo(a)anthracene
Concen: 62.25 ng m
RT: 14.14 min Scan# 1050
Delta R.T. 0.01 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.1	22.3	33.5
229	20.9	16.2	24.2

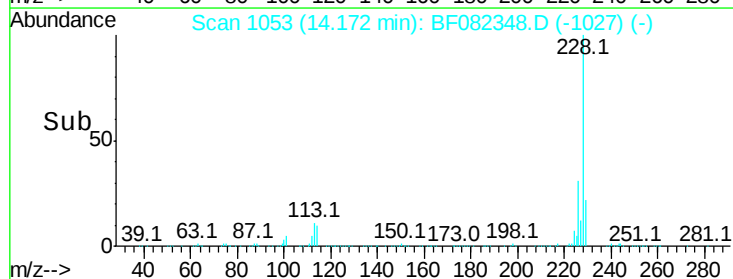
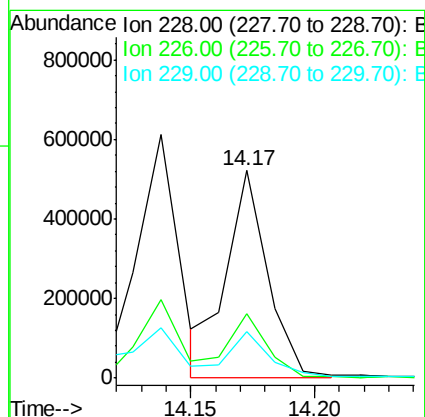
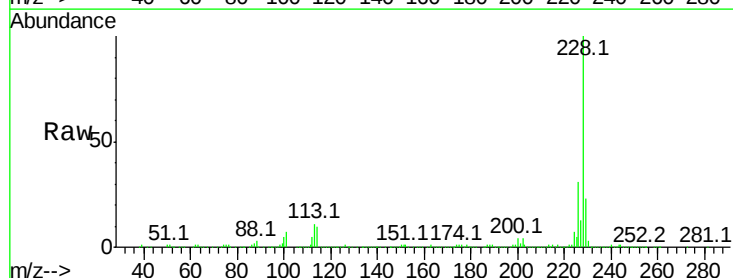
Manual Integrations
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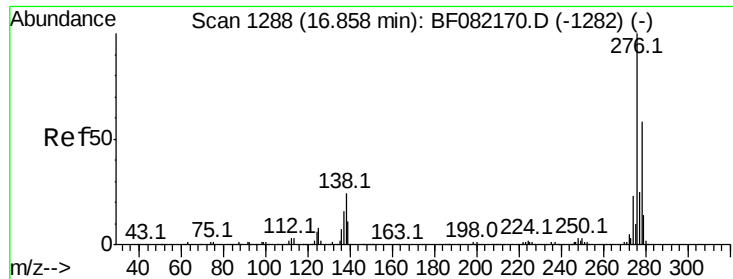
MMdadoda
10/19/2015 5:32:41 PM



#82
Chrysene
Concen: 50.90 ng m
RT: 14.17 min Scan# 1053
Delta R.T. 0.00 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.4	36.6
229	22.7	16.3	24.5





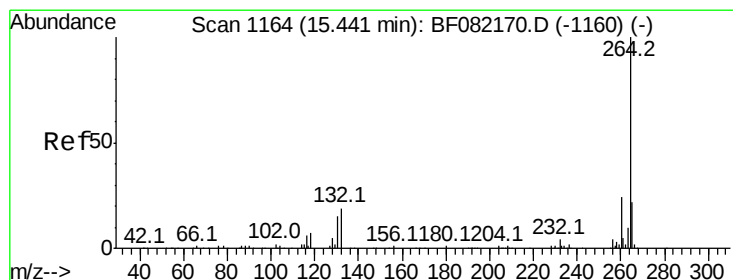
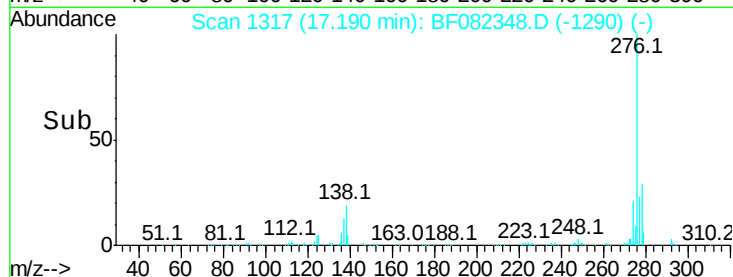
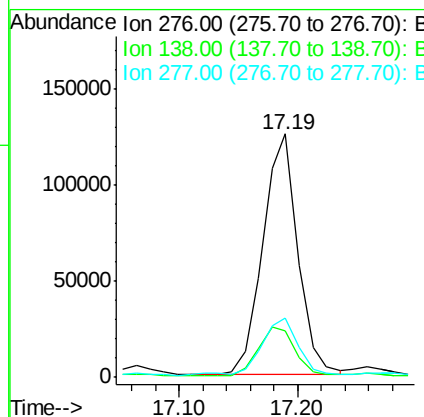
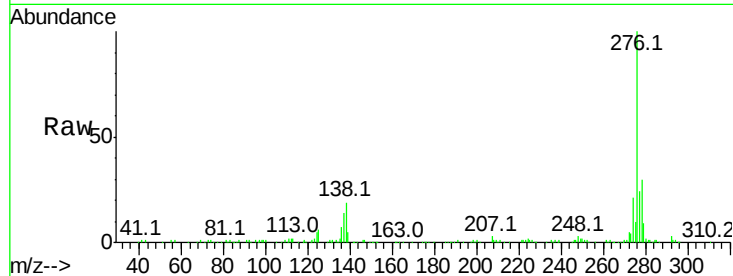
#85
Indeno(1,2,3-cd)pyrene
Concen: 27.06 ng
RT: 17.19 min Scan# 1317
Delta R.T. 0.01 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Instrument :
BNA_F
ClientSampleId :
CS-13

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.6	19.7	29.5
277	25.1	20.1	30.1

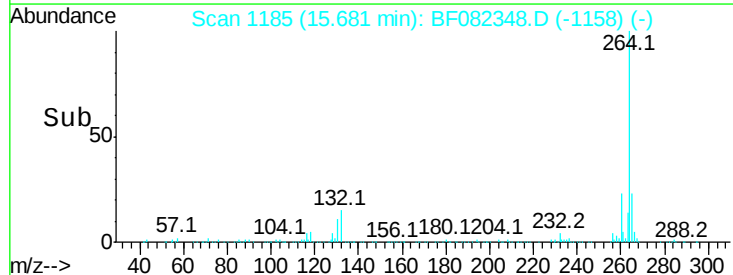
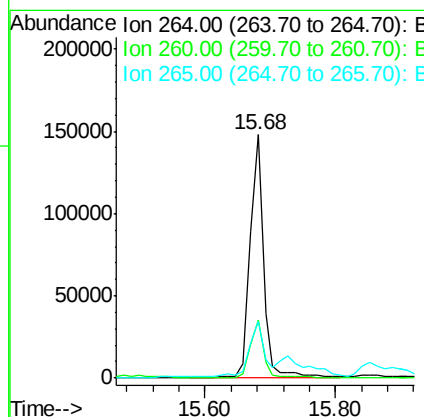
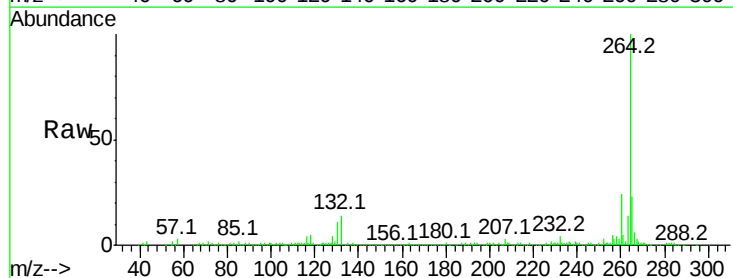
Manual Integrations
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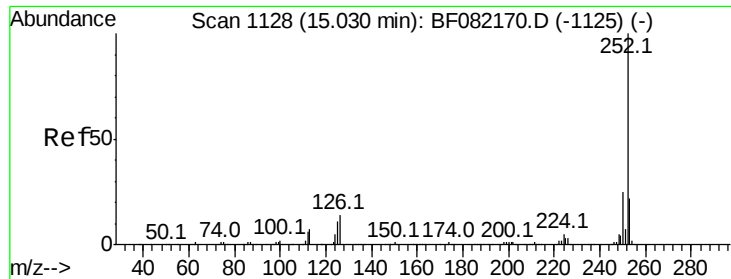
MMdadoda
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.68 min Scan# 1185
Delta R.T. 0.01 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Tgt Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.0	28.6
265	23.3	17.3	25.9





#87

Benzo(b)fluoranthene

Concen: 53.18 ng m

RT: 15.25 min Scan# 1147

Delta R.T. 0.01 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Instrument :

BNA_F

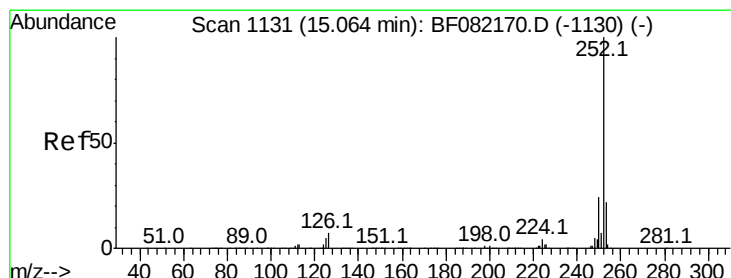
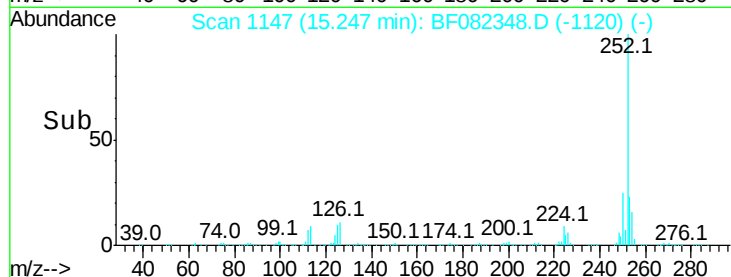
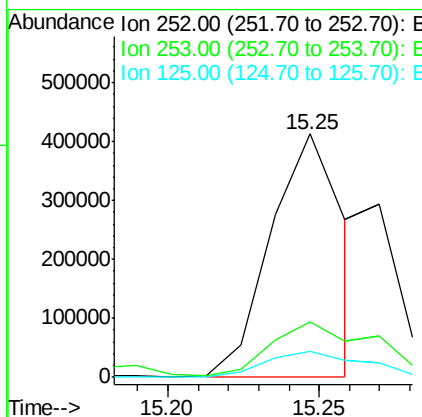
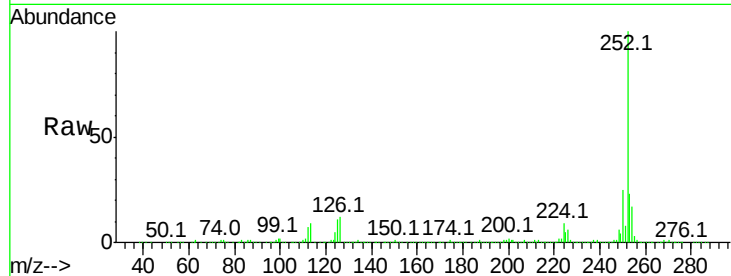
ClientSampleId :

CS-13

Tot Ion:	252	Resp:	694829
Ion Ratio	Lower	Upper	
252	100		
253	23.0	18.0	27.0
125	10.6	8.6	12.8

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 23.42 ng m

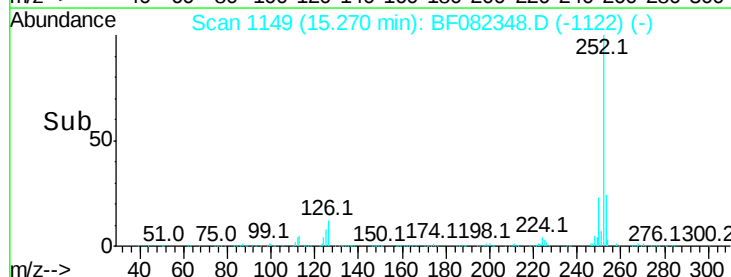
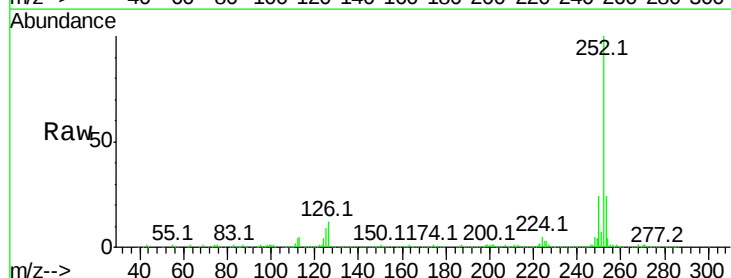
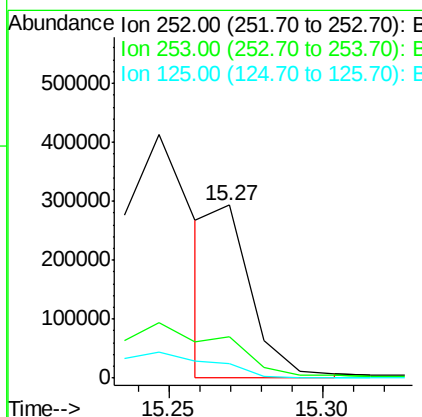
RT: 15.27 min Scan# 1149

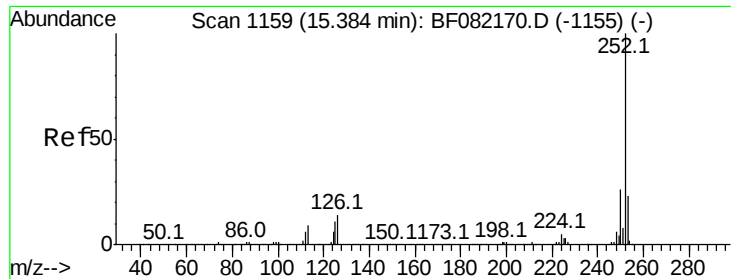
Delta R.T. 0.01 min

Lab File: BF082348.D

Acq: 17 Oct 2015 2:59

Tgt Ion:	252	Resp:	257176
Ion Ratio	Lower	Upper	
252	100		
253	24.3	17.8	26.6
125	8.7	6.7	10.1





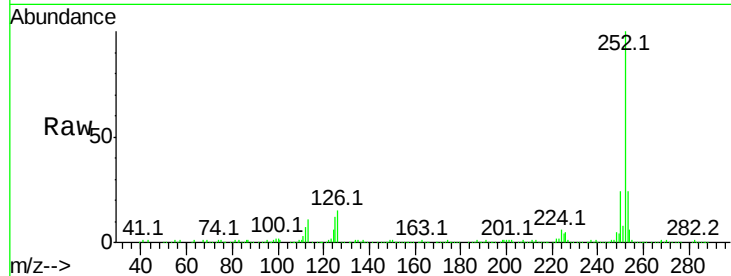
#89
Benzo(a)pyrene
Concen: 38.69 ng
RT: 15.61 min Scan# 1179
Delta R.T. 0.01 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Instrument :
BNA_F
ClientSampleId :
CS-13

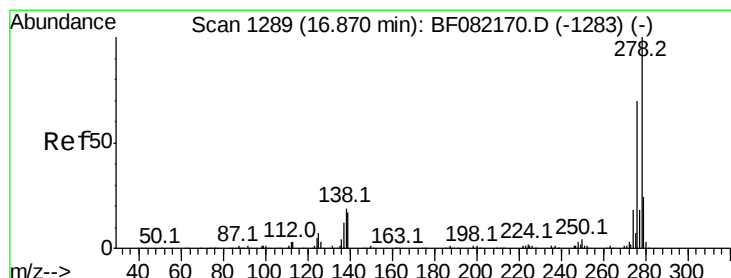
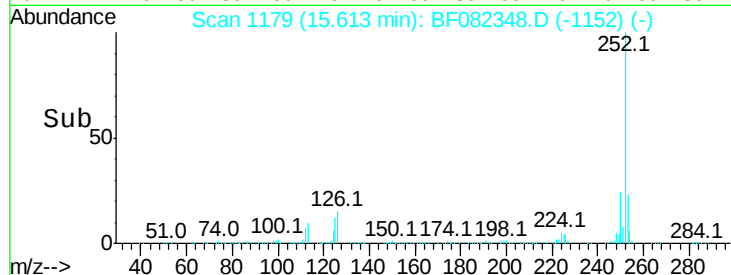
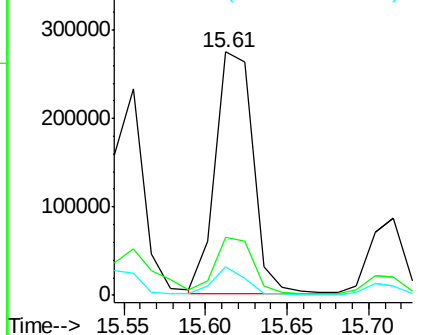
Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	23.8	18.2	27.2
125	11.8	8.9	13.3

Manual Integrations
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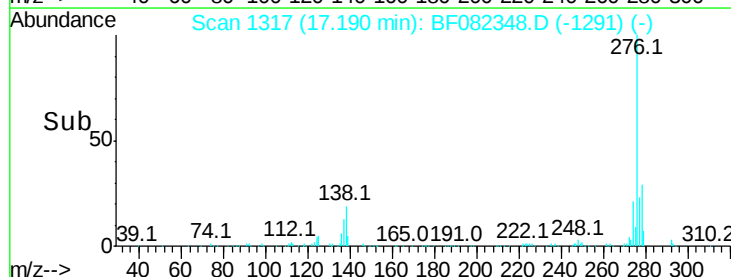
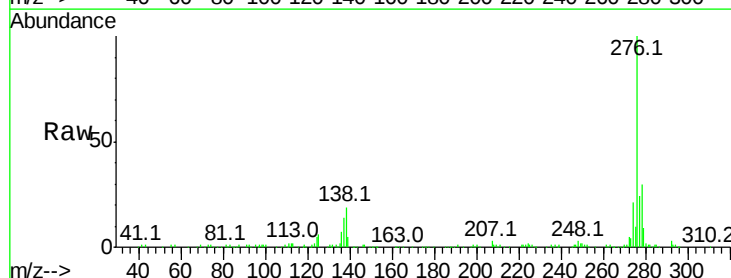
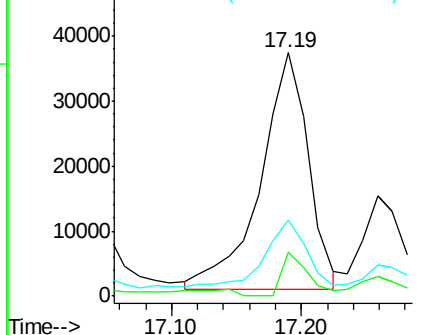
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

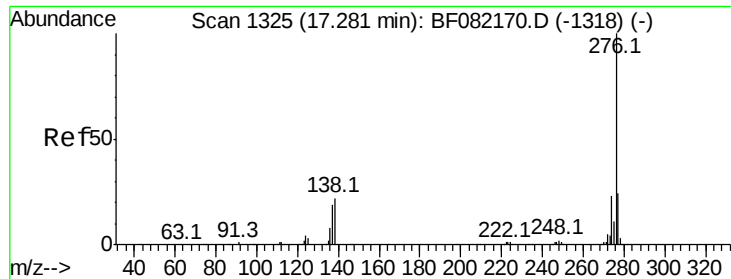


#90
Dibenzo(a,h)anthracene
Concen: 10.08 ng m
RT: 17.19 min Scan# 1317
Delta R.T. 0.00 min
Lab File: BF082348.D
Acq: 17 Oct 2015 2:59

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	18.2	13.3	19.9
279	31.0	18.9	28.3#

Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E





#91
 Benzo(a,h,i)perylene
 Concen: 23.96 ng
 RT: 17.64 min Scan# 1356
 Delta R.T. 0.01 min
 Lab File: BF082348.D
 Acq: 17 Oct 2015 2:59

Instrument :
 BNA_F
 ClientSampleId :
 CS-13

Tot Ion:	276	Resp:	214164
Ion Ratio	Lower	Upper	
276	100		
277	24.6	18.8	28.2
138	22.8	17.4	26.2

Manual Integrations
 APPROVED

MMdadoda
 10/19/2015 5:32:41 PM

