

Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
 Data File : BF086291.D
 Acq On : 18 Apr 2016 19:36
 Operator : UM/SJ
 Sample : H2413-10
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B31-1(0-2)

Manual Integrations
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Quant Time: Apr 19 02:17:58 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF041516.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 15 15:56:31 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	303079	20.00	ng	-0.01
21) Naphthalene-d8	8.18	136	1176370	20.00	ng	0.00
38) Acenaphthene-d10	9.93	164	445563	20.00	ng	-0.01
63) Phenanthrene-d10	11.41	188	645108	20.00	ng	0.00
75) Chrysene-d12	14.08	240	254905	20.00	ng	0.02
86) Perylene-d12	15.52	264	327882	20.00	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	2076235	112.24	ng	0.01
7) Phenol-d6	6.52	99	2505724	108.30	ng	0.00
23) Nitrobenzene-d5	7.46	82	1899884	93.15	ng	0.00
41) 2,4,6-Tribromophenol	10.72	330	363863	101.70	ng	-0.01
44) 2-Fluorobiphenyl	9.25	172	1880815	77.89	ng	-0.01
78) Terphenyl-d14	13.01	244	1009484	99.58	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.20	128	764220	14.55	ng	96
37) 2-Methylnaphthalene	8.89	142	412016	12.13	ng	98
45) 1,1'-Biphenyl	9.36	154	143393	4.47	ng	91
48) Acenaphthylene	9.79	152	161280	3.87	ng	# 97
49) Dimethylphthalate	9.64	163	436054	13.46	ng	100
51) Acenaphthene	9.96	154	571650	22.97	ng	99
54) Dibenzofuran	10.13	168	978200	29.76	ng	95
57) Fluorene	10.48	166	1127411	50.66	ng	99
70) Phenanthrene	11.45	178	4237064	137.51	ng	98
71) Anthracene	11.49	178	1738288	Below Cal		99
72) Carbazole	11.64	167	640287	21.85	ng	99
74) Fluoranthene	12.65	202	3854330	159.67	ng	95
77) Pvrene	12.88	202	3192175	163.23	ng	99
80) Benzo(a)anthracene	14.07	228	1694459	121.09	ng	97
82) Chrysene	14.10	228	1269864	85.11	ng	96
85) Indeno(1,2,3-cd)pyrene	16.92	276	829234	67.61	ng	96
87) Benzo(b)fluoranthene	15.11	252	1586349m	78.42	ng	
88) Benzo(k)fluoranthene	15.13	252	546622m	29.64	ng	
89) Benzo(a)pvrene	15.39	252	740907m	42.28	ng	
90) Dibenzo(a,h)anthracene	16.93	278	223684	14.45	ng	# 87
91) Benzo(q,h,i)perylene	17.36	276	751022	45.61	ng	95

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

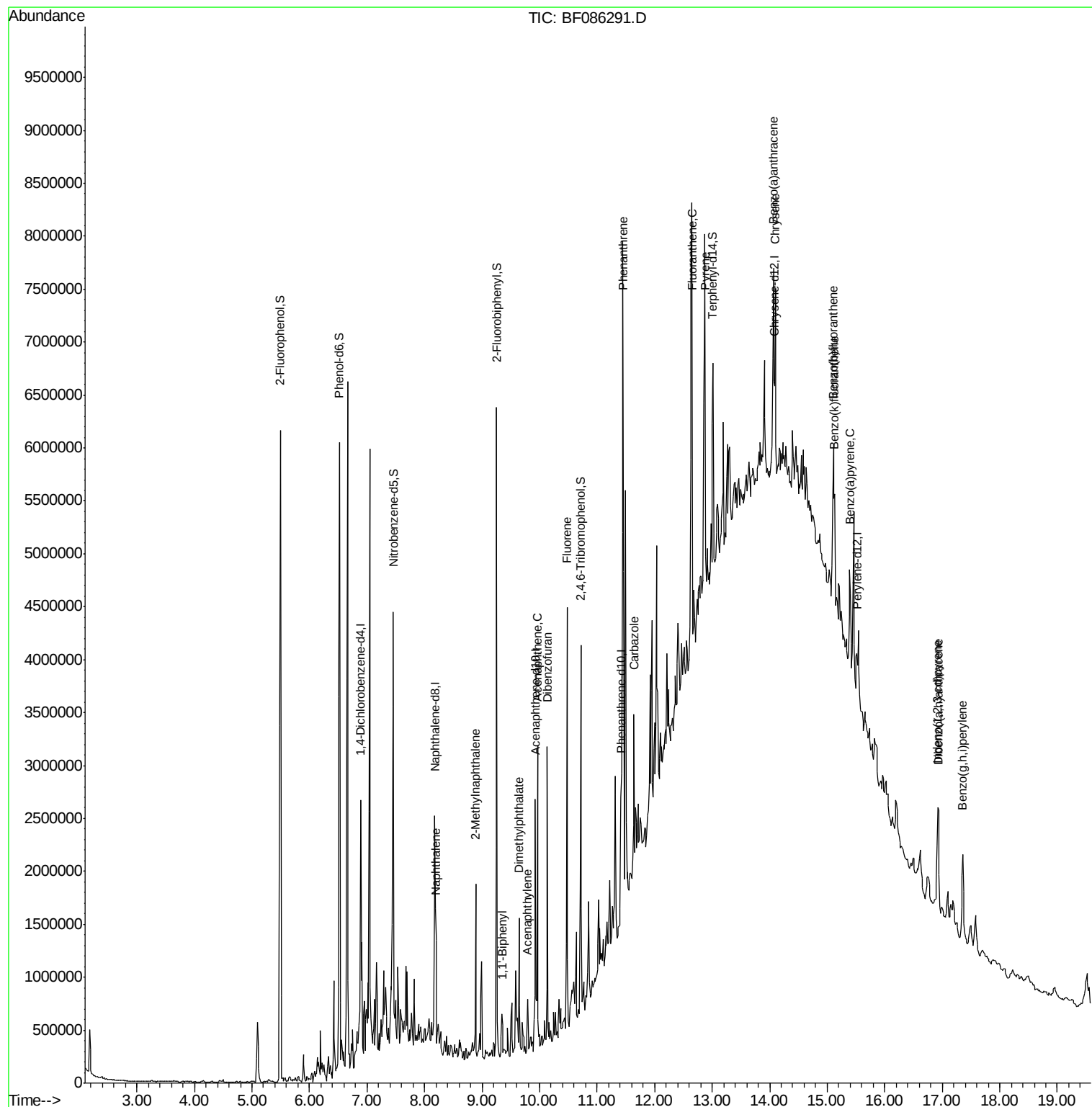
Data Path : Z:\HPCHEM1\BNA F\DATA\BF041816\
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Misc :
ALS Vial : 14 Sample Multiplier: 1

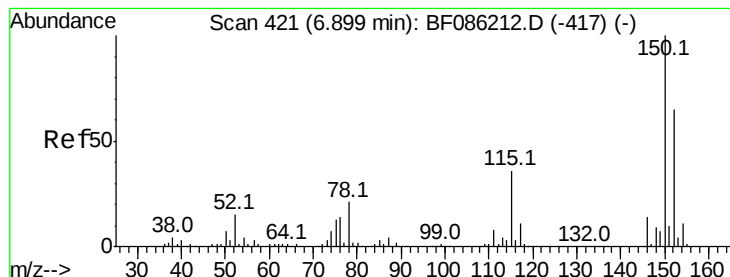
Instrument :
BNA_F
ClientSampleId :
B31-1(0-2)

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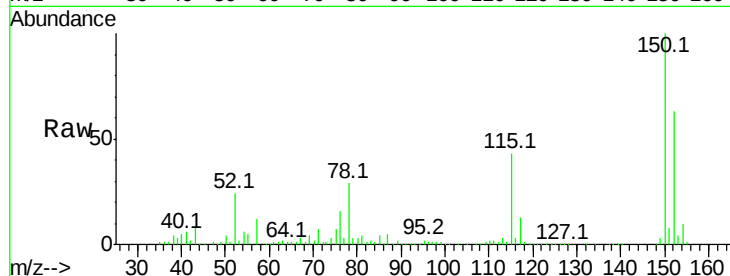
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.89 min Scan# 420
 Delta R.T. -0.01 min
 Lab File: BF086291.D
 Acq: 18 Apr 2016 19:36

Instrument :
 BNA_F
 ClientSampleId :
 B31-1(0-2)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.9	124.1	186.1
115	67.9	43.9	65.9

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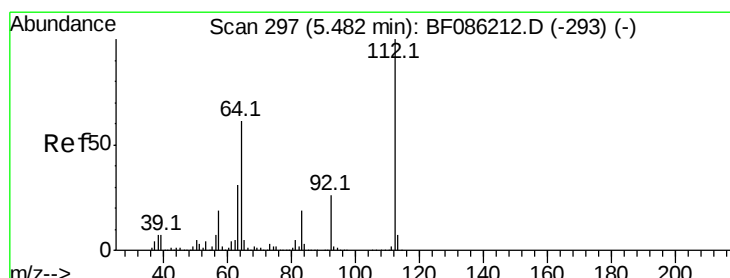
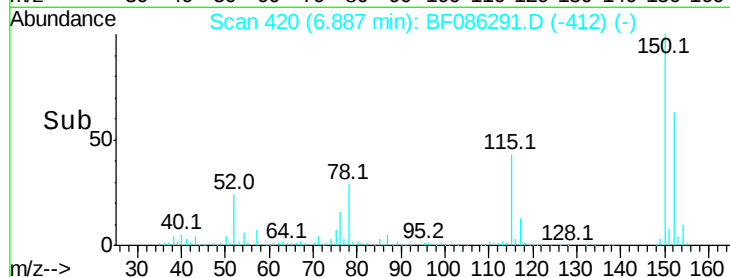
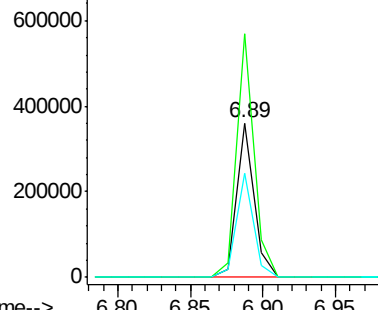


Abundance

Ion 152.00 (151.70 to 152.70): E

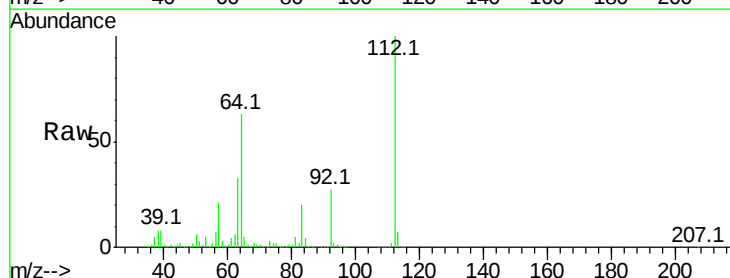
Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5
 2-Fluorophenol
 Concen: 112.24 ng
 RT: 5.49 min Scan# 298
 Delta R.T. 0.01 min
 Lab File: BF086291.D
 Acq: 18 Apr 2016 19:36

Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.4	48.1	72.1
63	33.1	25.5	38.3

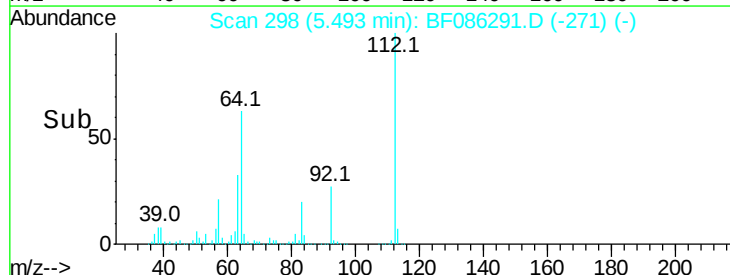
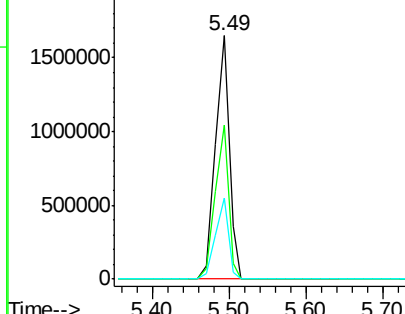


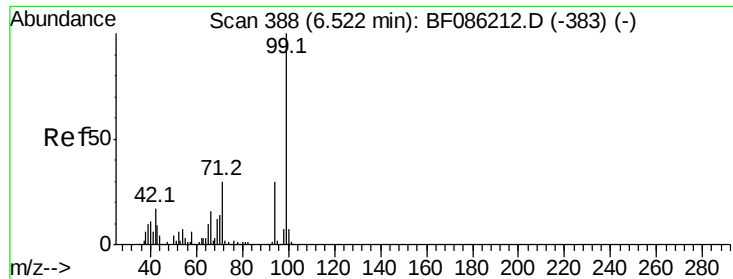
Abundance

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: 108.30 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.00 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Instrument :

BNA_F

ClientSampleId :

B31-1(0-2)

Tot Ion: 99 Resp: 2505724

Ion Ratio Lower Upper

99 100

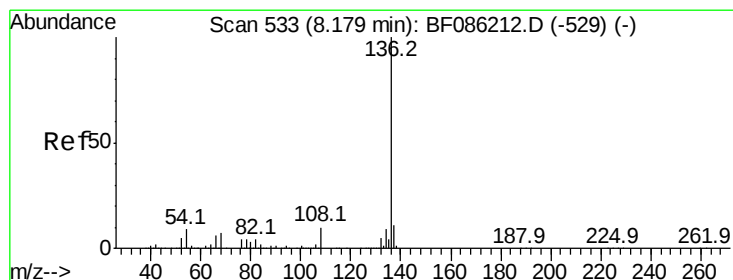
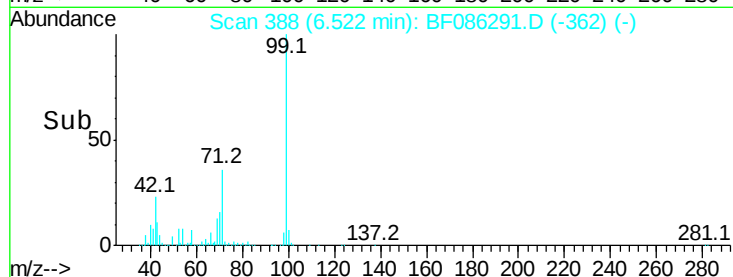
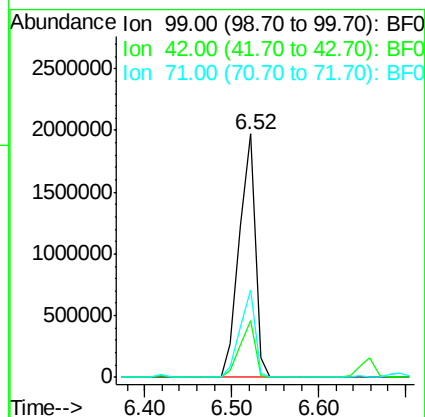
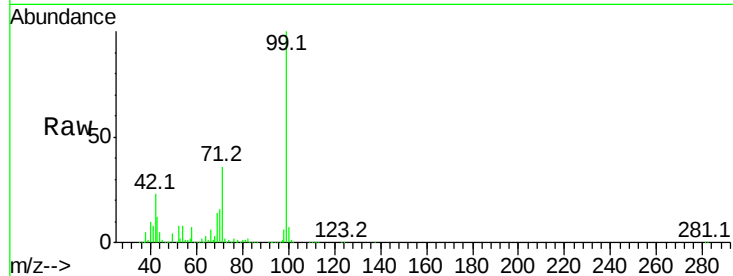
42 23.2 15.4 23.2#

71 36.1 25.6 38.4

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

Delta R.T. -0.00 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Tgt Ion:136 Resp: 1176370

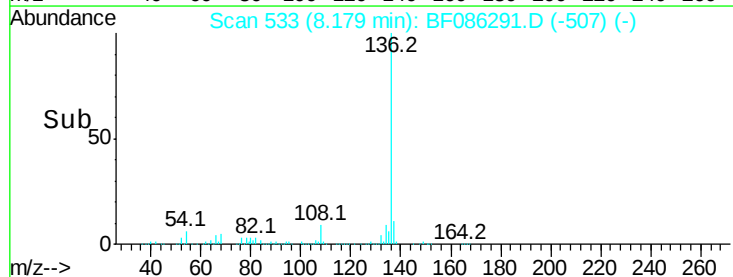
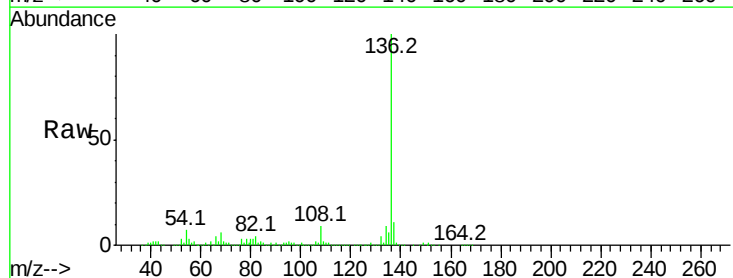
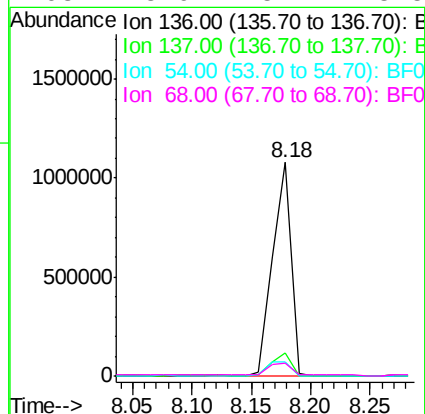
Ion Ratio Lower Upper

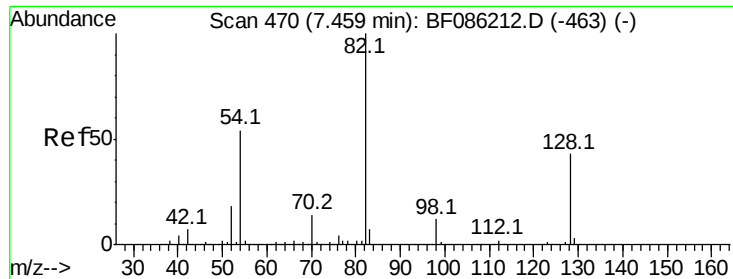
136 100

137 11.0 9.1 13.7

54 6.5 7.3 10.9#

68 5.9 5.7 8.5





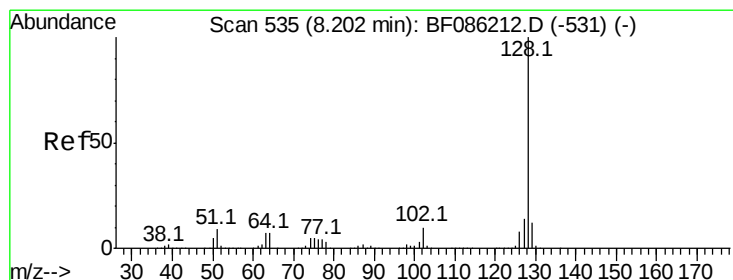
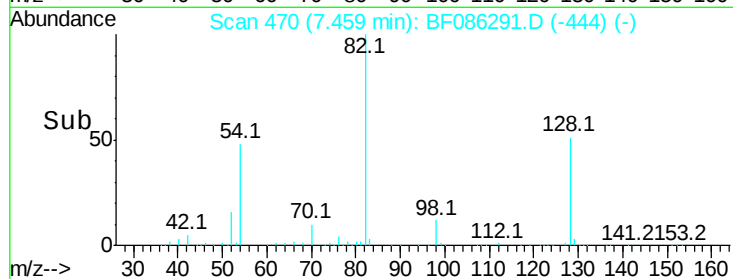
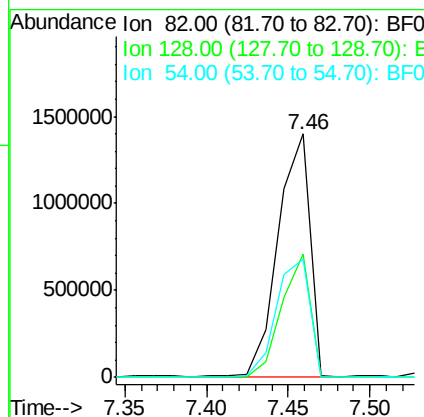
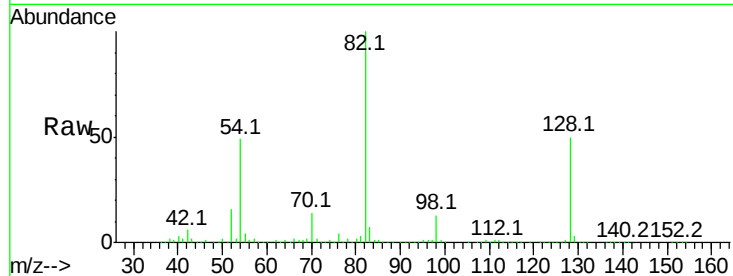
#23
 Nitrobenzene-d5
 Concen: 93.15 ng
 RT: 7.46 min Scan# 470
 Delta R.T. -0.00 min
 Lab File: BF086291.D
 Acq: 18 Apr 2016 19:36

Instrument :
 BNA_F
 ClientSampleId :
 B31-1(0-2)

Tot Ion	Ratio	Lower	Upper
82	100		
128	50.4	35.4	53.2
54	48.5	43.4	65.0

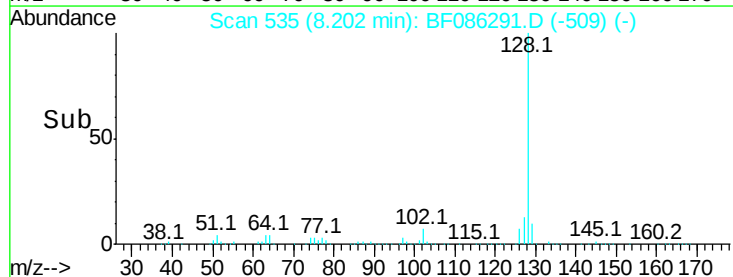
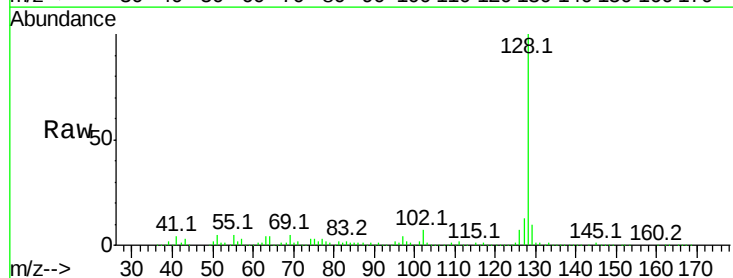
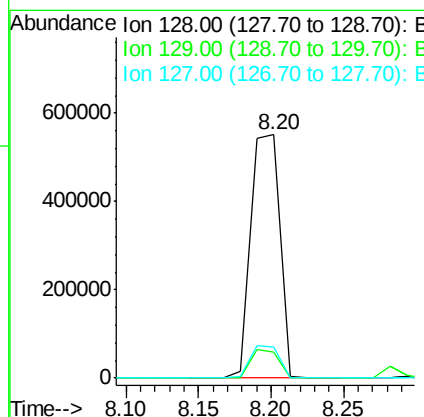
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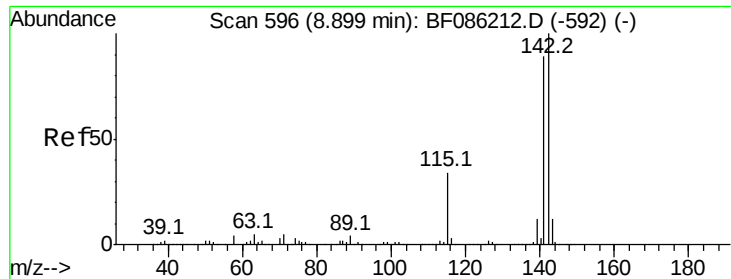
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#31
 Naphthalene
 Concen: 14.55 ng
 RT: 8.20 min Scan# 535
 Delta R.T. 0.00 min
 Lab File: BF086291.D
 Acq: 18 Apr 2016 19:36

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.4	9.6	14.4
127	13.0	11.4	17.2





#37

2-Methylnaphthalene

Concen: 12.13 ng

RT: 8.89 min Scan# 595

Delta R.T. -0.01 min

Lab File: BF086291.D

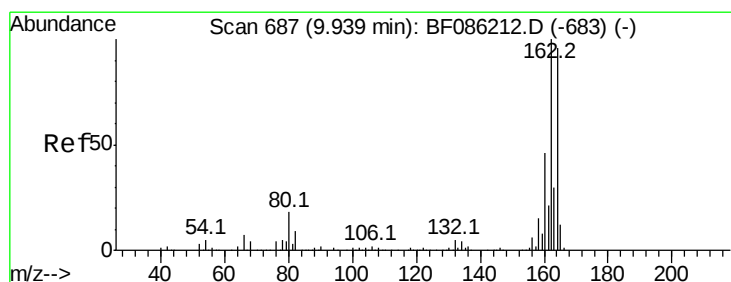
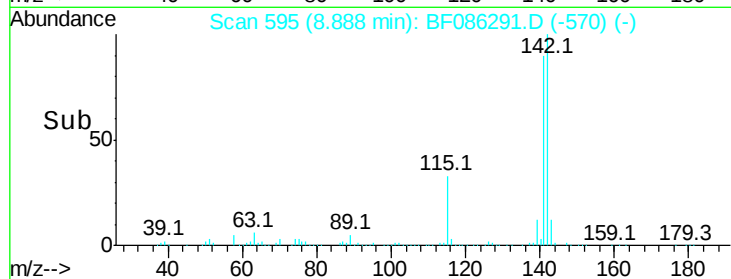
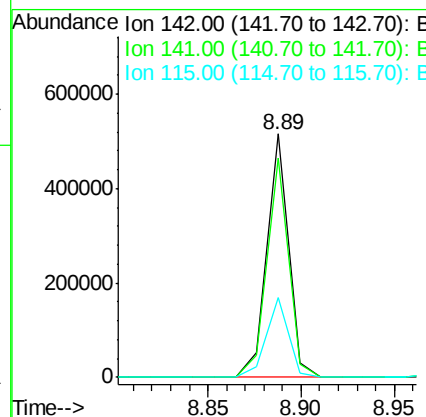
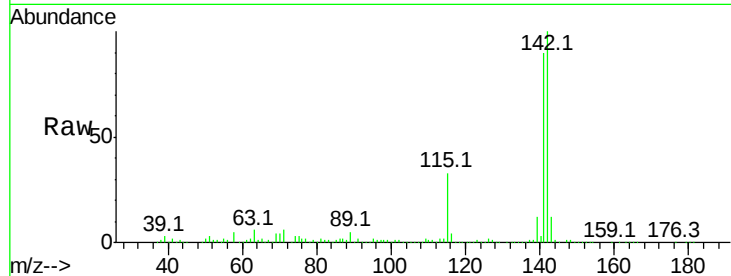
Acq: 18 Apr 2016 19:36

Instrument :
BNA_F
ClientSampleId :
B31-1(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
142	100	412016		
141	90.1	71.1	106.7	
115	33.0	25.1	37.7	

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#38

Acenaphthene-d10

Concen: 20.00 ng

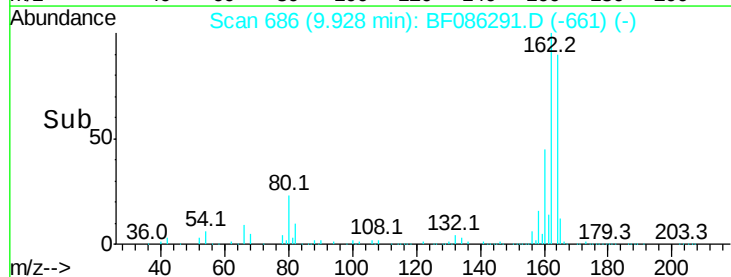
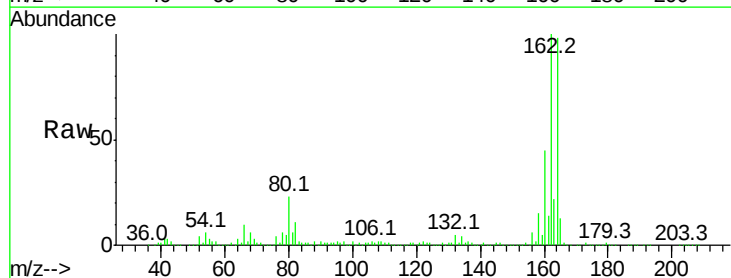
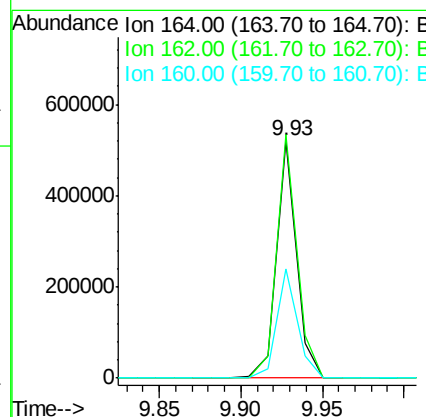
RT: 9.93 min Scan# 686

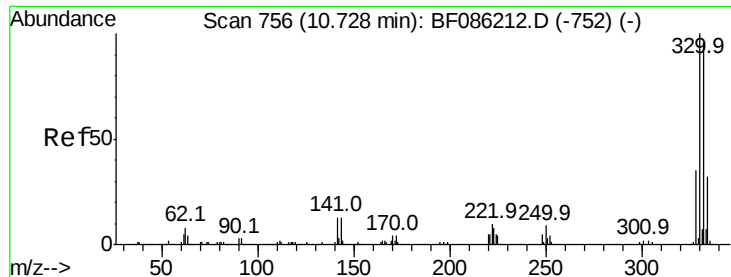
Delta R.T. -0.01 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	445563		
162	102.4	82.8	124.2	
160	46.1	38.9	58.3	





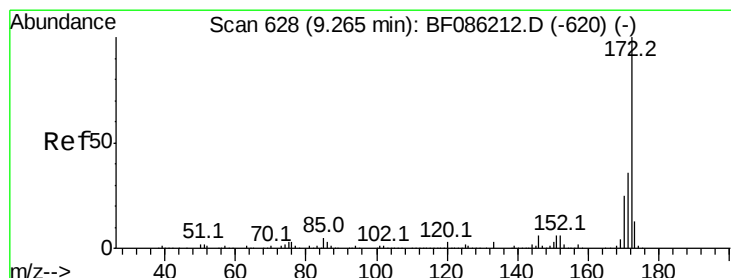
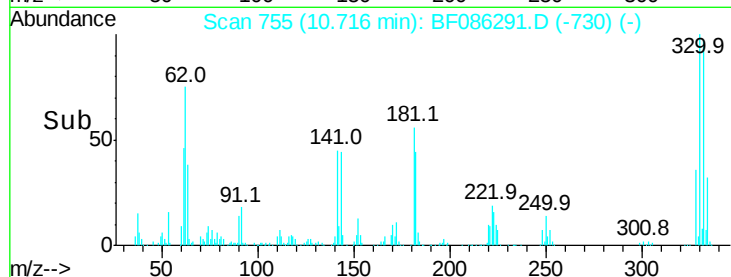
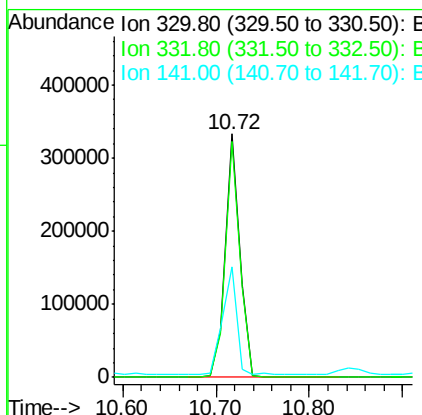
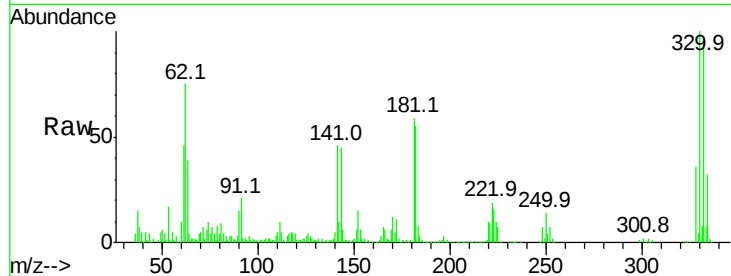
#41
 2,4,6-Tribromophenol
 Concen: 101.70 ng
 RT: 10.72 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: BF086291.D
 Acq: 18 Apr 2016 19:36

Instrument :
 BNA_F
 ClientSampleId :
 B31-1(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	96.5	78.7	118.1	
141	44.4	28.6	42.8	

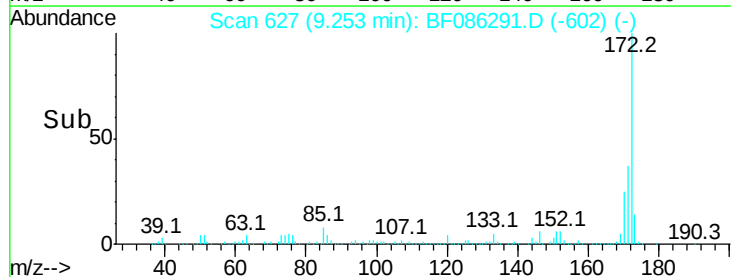
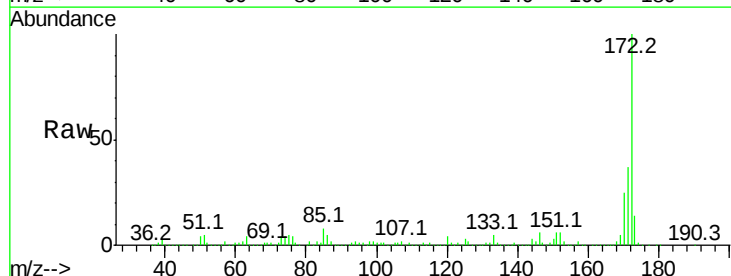
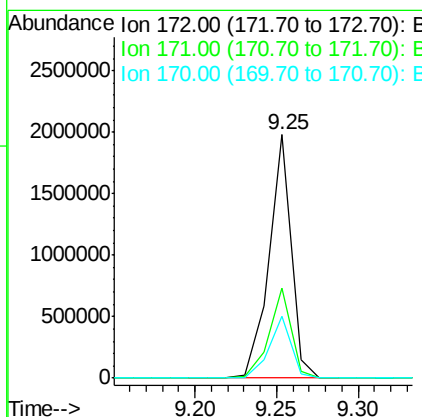
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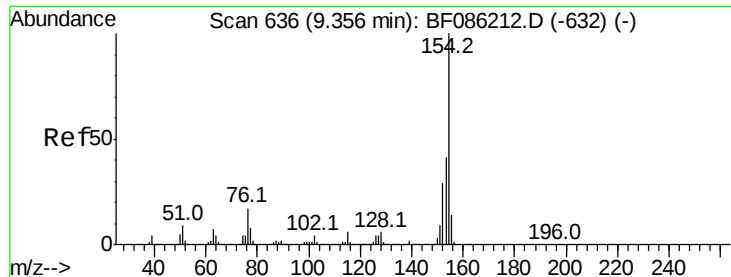
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#44
 2-Fluorobiphenyl
 Concen: 77.89 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.01 min
 Lab File: BF086291.D
 Acq: 18 Apr 2016 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	37.2	29.1	43.7	
170	25.3	19.9	29.9	





#45

1,1'-Biphenyl

Concen: 4.47 ng

RT: 9.36 min Scan# 636

Delta R.T. 0.00 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Instrument :

BNA_F

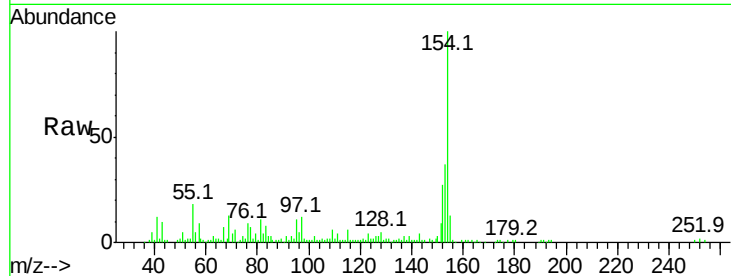
ClientSampleId :

B31-1(0-2)

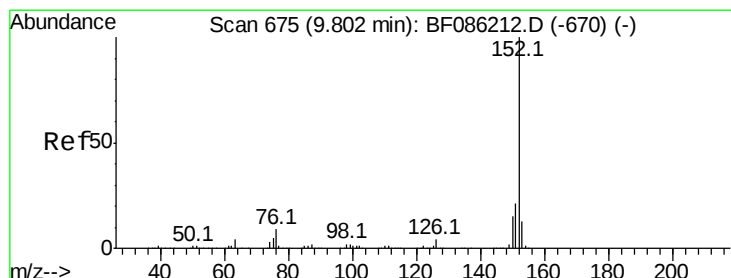
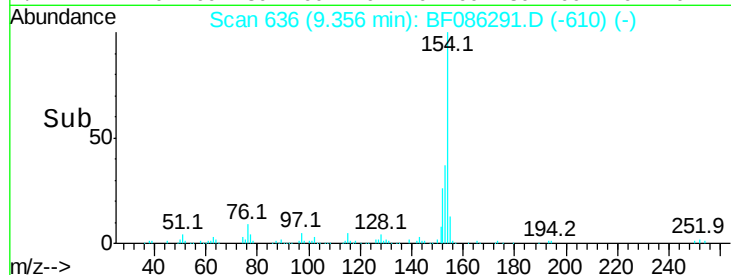
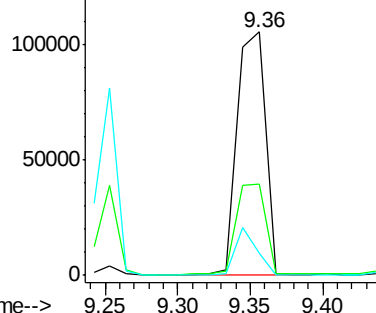
Tot Ion:	154	Resp:	143393
Ion Ratio	Lower	Upper	
154	100		
153	37.3	21.3	61.3
76	9.2	0.0	36.4

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



#48

Acenaphthylene

Concen: 3.87 ng

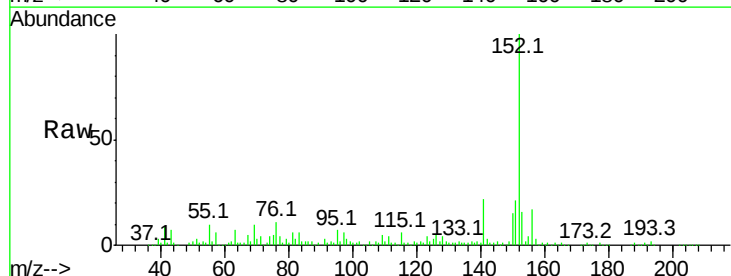
RT: 9.79 min Scan# 674

Delta R.T. -0.01 min

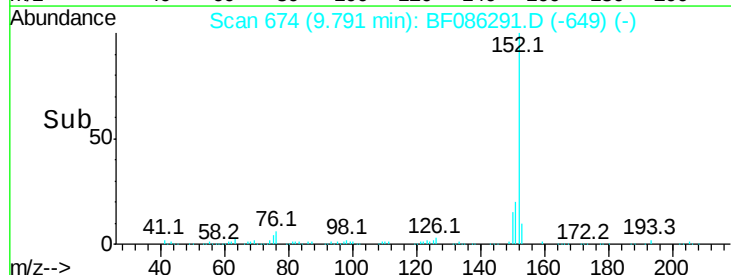
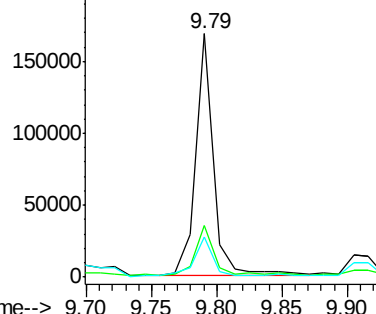
Lab File: BF086291.D

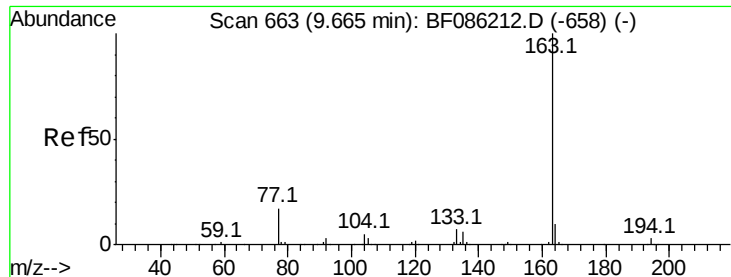
Acq: 18 Apr 2016 19:36

Tgt Ion:	152	Resp:	161280
Ion Ratio	Lower	Upper	
152	100		
151	21.4	17.2	25.8
153	16.3	10.7	16.1#



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





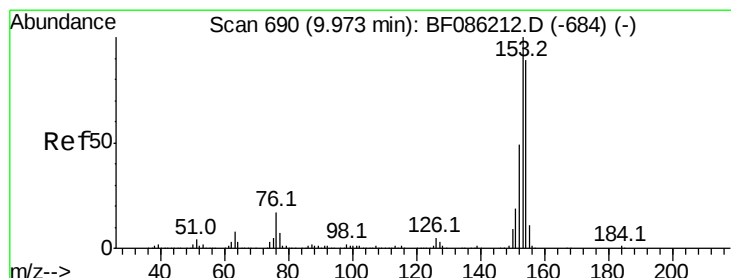
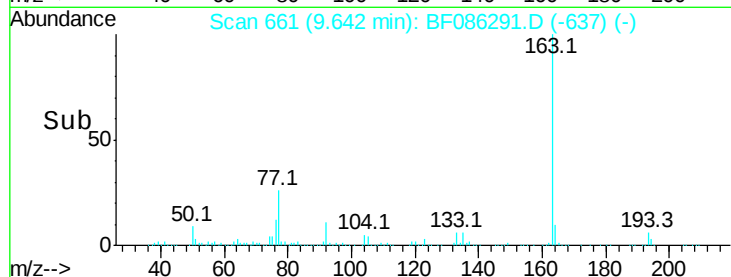
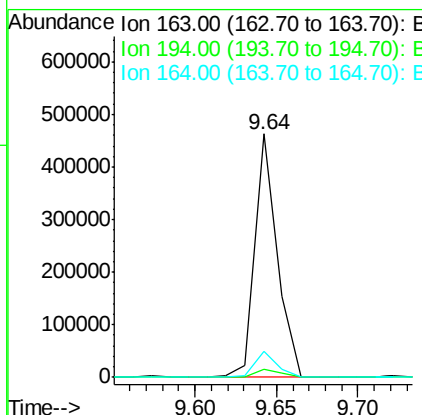
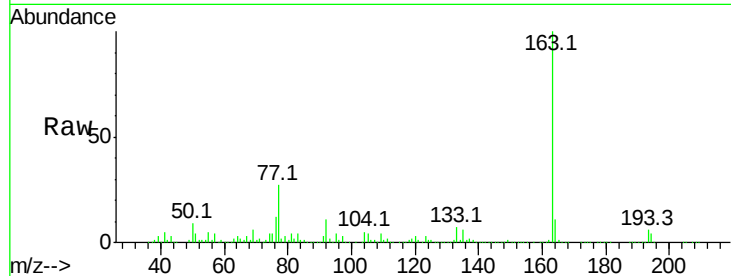
#49
Dimethylphthalate
Concen: 13.46 ng
RT: 9.64 min Scan# 661
Delta R.T. -0.02 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Instrument :
BNA_F
ClientSampleId :
B31-1(0-2)

Tot Ion:	163	Resp:	436054
Ion Ratio	Lower	Upper	
163	100		
194	3.6	2.8	4.2
164	10.5	8.4	12.6

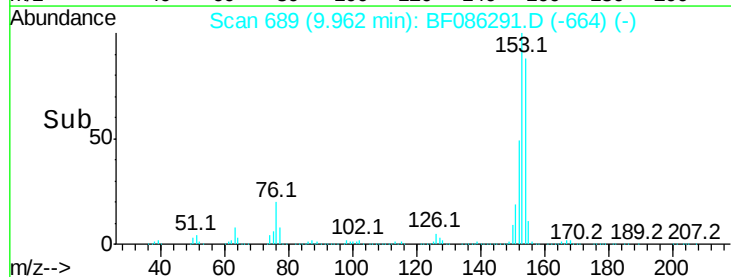
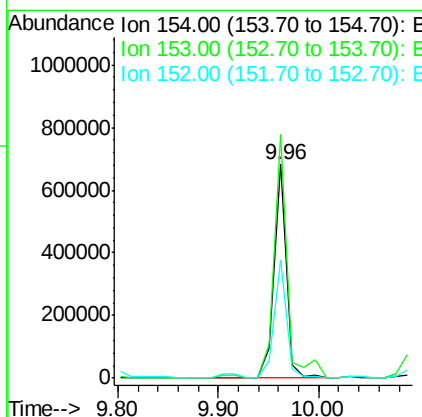
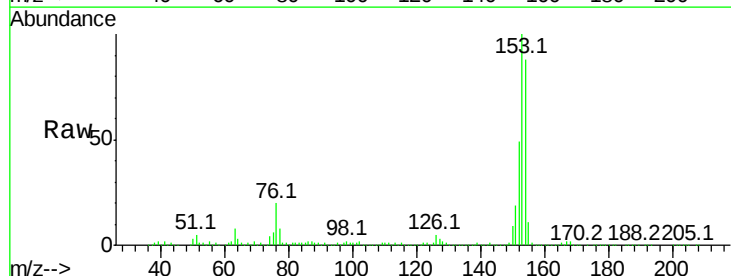
Manual Integrations
APPROVED

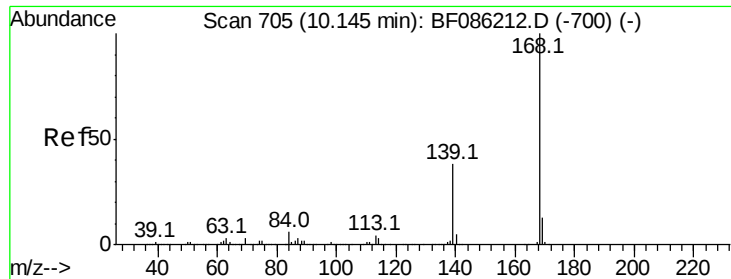
Sohil
4/19/2016 6:23:24 PM



#51
Acenaphthene
Concen: 22.97 ng
RT: 9.96 min Scan# 689
Delta R.T. -0.01 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Tgt Ion:	154	Resp:	571650
Ion Ratio	Lower	Upper	
154	100		
153	113.9	90.0	135.0
152	55.4	44.3	66.5





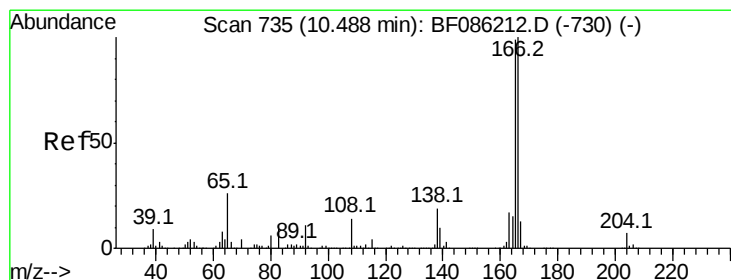
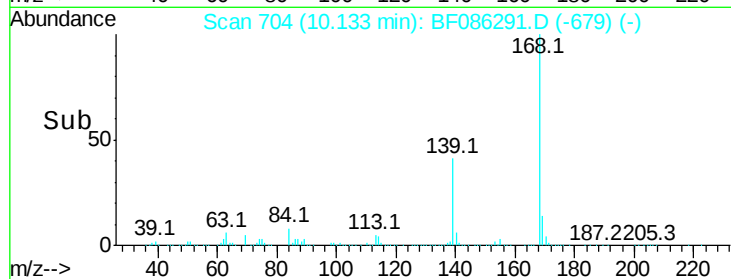
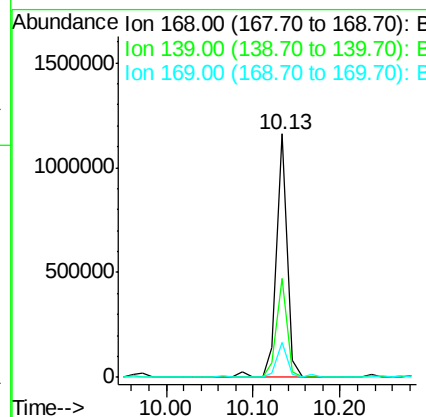
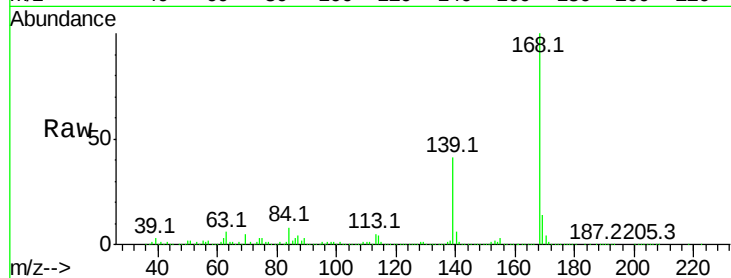
#54
Dibenzenofuran
Concen: 29.76 ng
RT: 10.13 min Scan# 704
Delta R.T. -0.01 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Instrument :
BNA_F
ClientSampleId :
B31-1(0-2)

Tot Ion	Ratio	Resp	Lower	Upper
168	100			
139	40.6	29.5	44.3	
169	14.5	10.6	16.0	

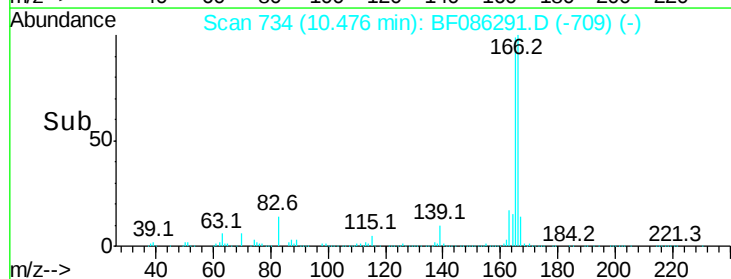
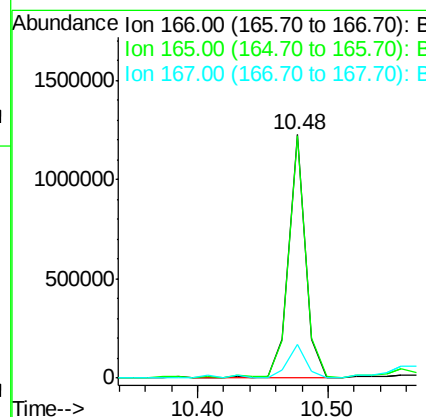
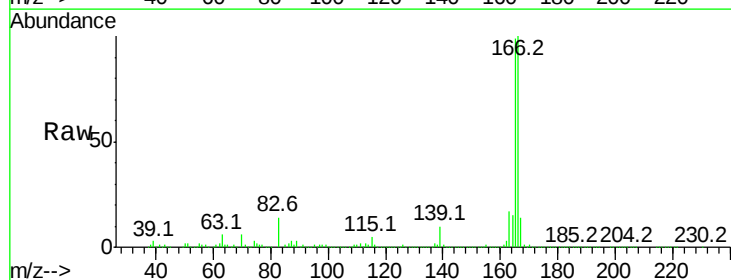
Manual Integrations
APPROVED

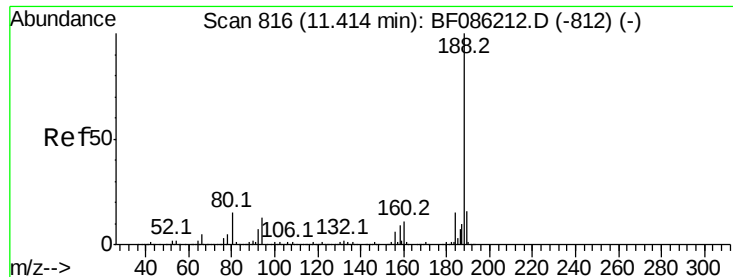
Sohil
4/19/2016 6:23:24 PM



#57
Fluorene
Concen: 50.66 ng
RT: 10.48 min Scan# 734
Delta R.T. -0.01 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Tgt Ion	Ratio	Resp	Lower	Upper
166	100			
165	99.3	78.6	117.8	
167	13.9	10.4	15.6	





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 816

Delta R.T. -0.00 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Instrument :

BNA_F

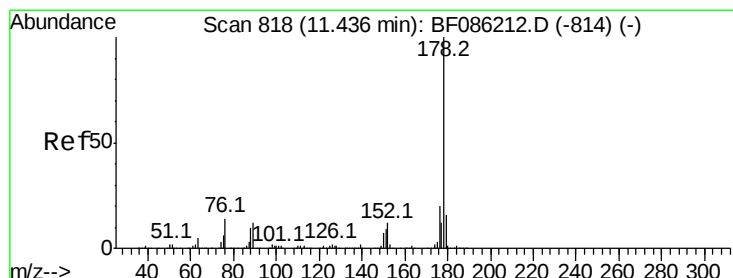
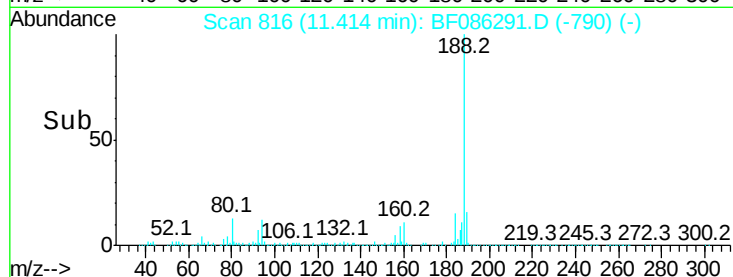
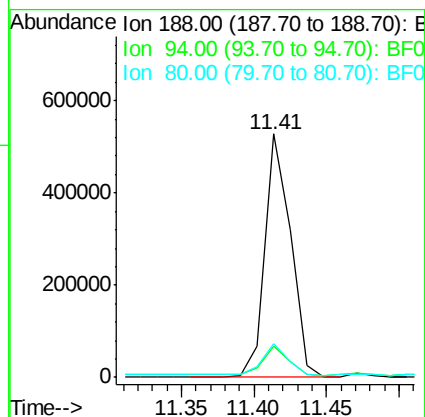
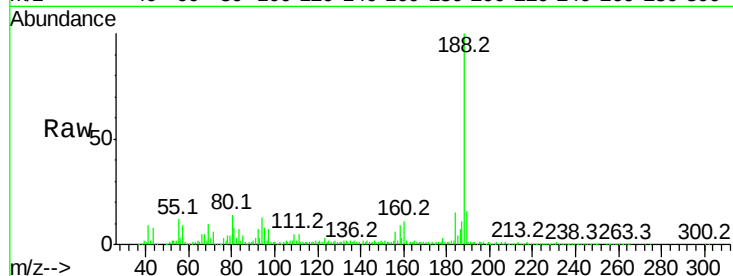
ClientSampleId :

B31-1(0-2)

Tot Ion:	188	Resp:	645108
Ion Ratio	Lower	Upper	
188	100		
94	12.8	9.8	14.8
80	14.1	10.5	15.7

Manual Integrations
APPROVED

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#70

Phenanthrene

Concen: 137.51 ng

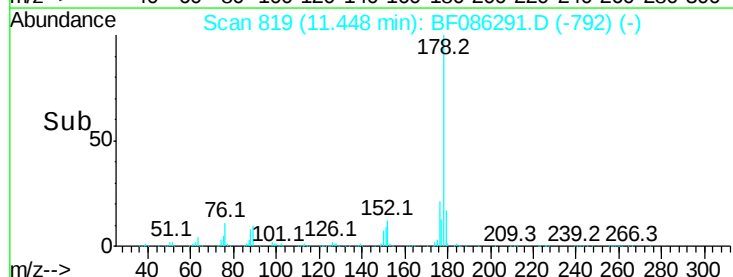
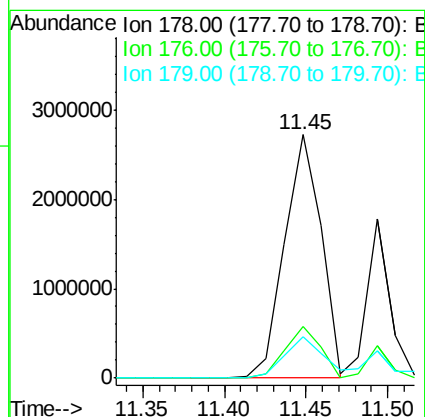
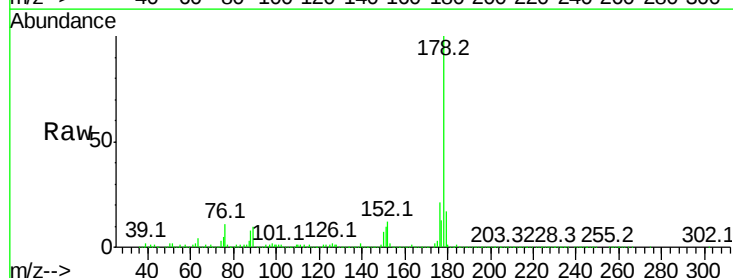
RT: 11.45 min Scan# 819

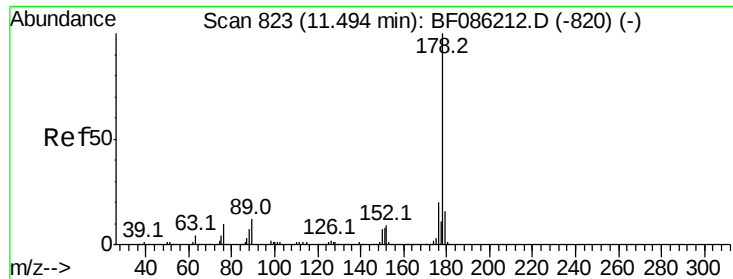
Delta R.T. 0.01 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Tgt Ion:	178	Resp:	4237064
Ion Ratio	Lower	Upper	
178	100		
176	21.1	16.3	24.5
179	17.2	13.0	19.6





#71

Anthracene

Concen: Below Cal

RT: 11.49 min Scan# 823

Delta R.T. 0.00 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Instrument :

BNA_F

ClientSampleId :

B31-1(0-2)

Tot Ion:178 Resp: 1738288

Ion Ratio Lower Upper

178 100

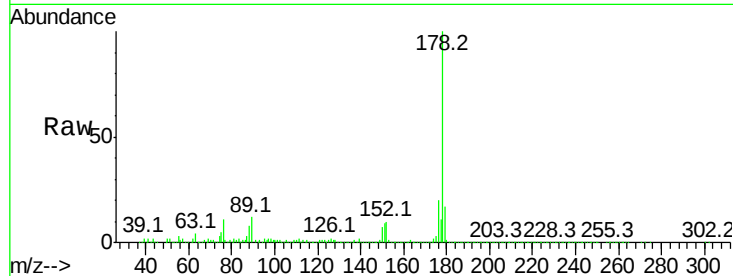
176 19.9 16.2 24.4

179 16.7 13.2 19.8

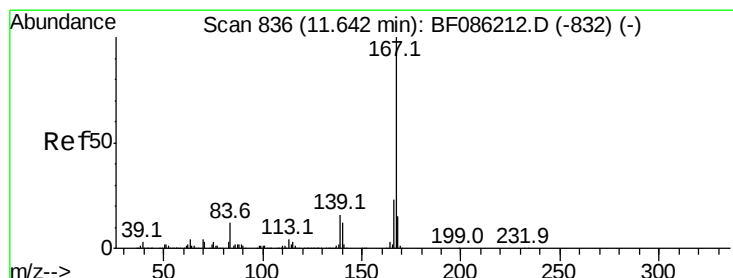
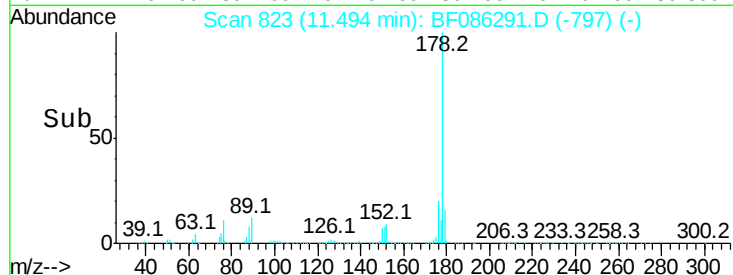
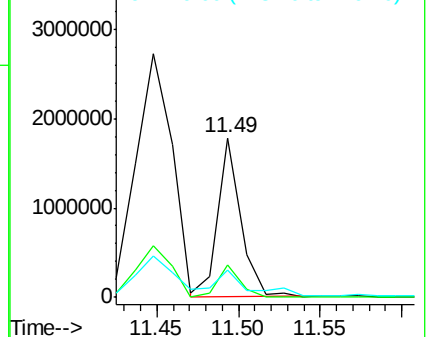
Manual Integrations
APPROVED

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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: 21.85 ng

RT: 11.64 min Scan# 836

Delta R.T. 0.00 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

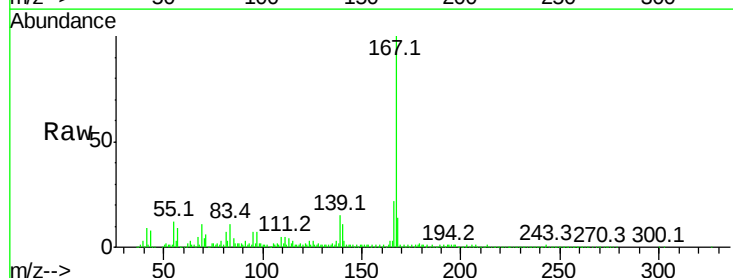
Tgt Ion:167 Resp: 640287

Ion Ratio Lower Upper

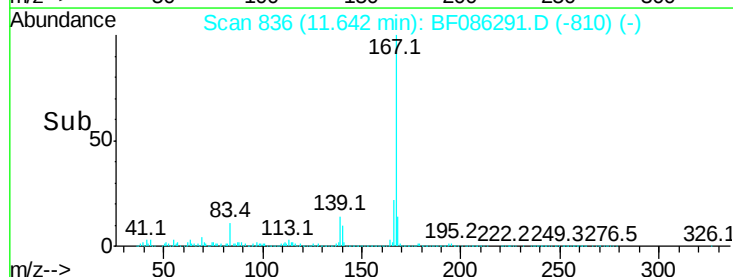
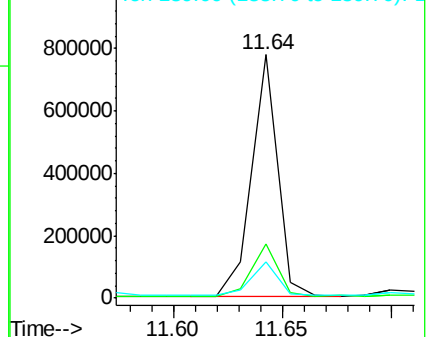
167 100

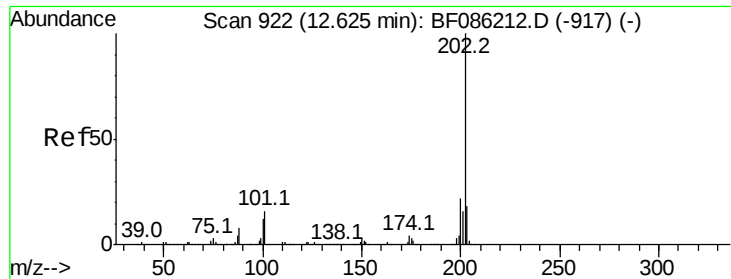
166 22.4 18.3 27.5

139 14.8 12.3 18.5



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: 159.67 ng

RT: 12.65 min Scan# 924

Delta R.T. 0.02 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Instrument :

BNA_F

ClientSampleId :

B31-1(0-2)

Tot Ion:202 Resp: 3854330

Ion Ratio Lower Upper

202 100

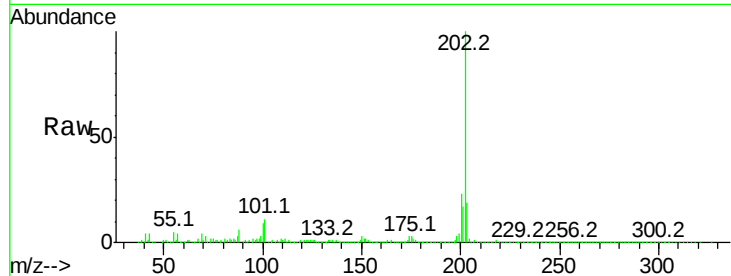
101 11.5 0.0 35.2

203 18.9 0.0 38.2

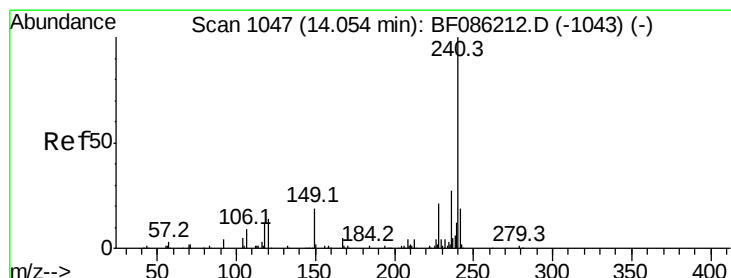
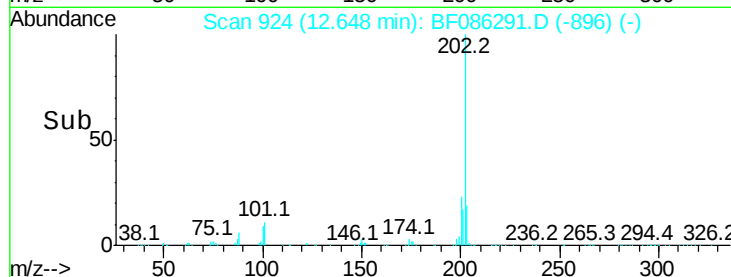
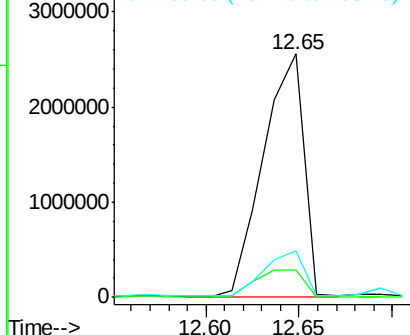
Manual Integrations
APPROVED

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.08 min Scan# 1049

Delta R.T. 0.02 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

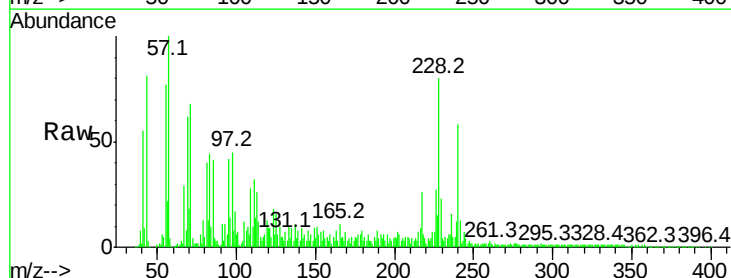
Tgt Ion:240 Resp: 254905

Ion Ratio Lower Upper

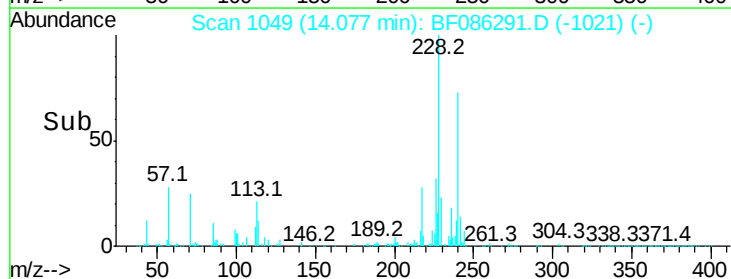
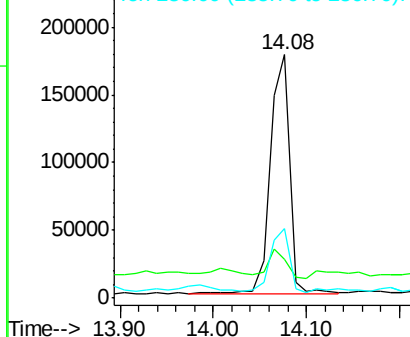
240 100

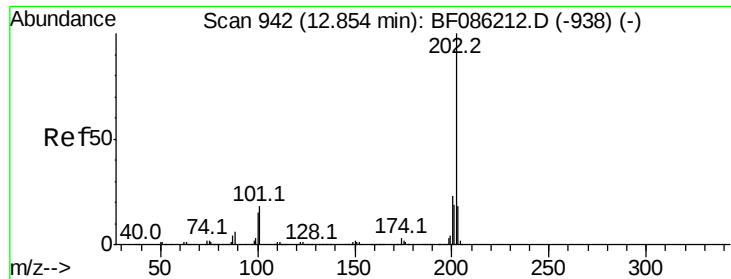
120 15.8 9.3 13.9#

236 28.3 21.1 31.7



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 163.23 ng

RT: 12.88 min Scan# 944

Delta R.T. 0.02 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Instrument :

BNA_F

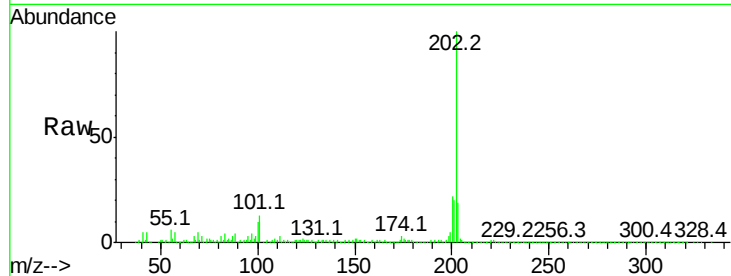
ClientSampleId :

B31-1(0-2)

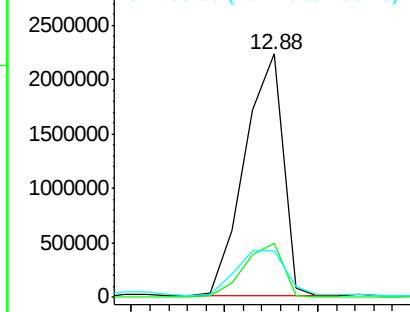
Tot Ion	Ratio	Lower	Upper
202	100		
200	22.3	18.3	27.5
203	19.0	14.9	22.3

Manual Integrations
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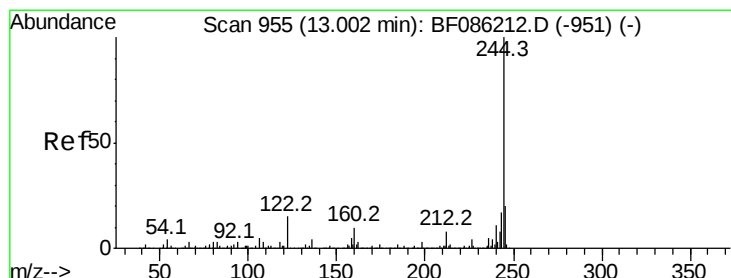
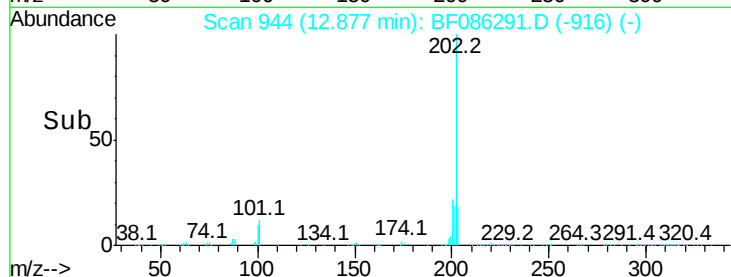
Sohil
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



Time--> 12.80 12.85 12.90



#78

Terphenyl-d14

Concen: 99.58 ng

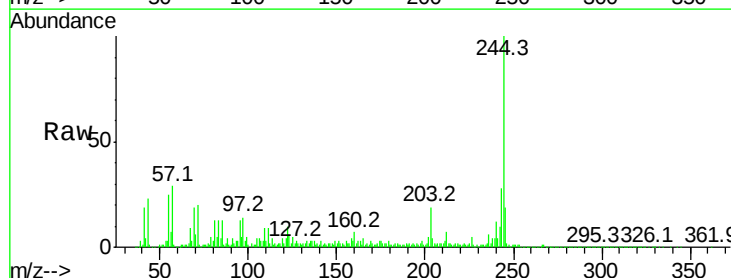
RT: 13.01 min Scan# 956

Delta R.T. 0.01 min

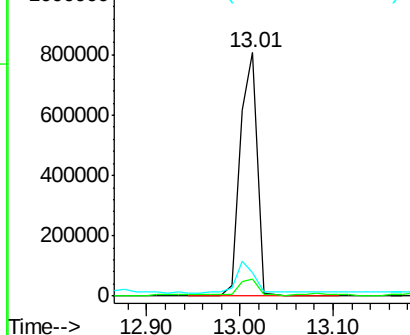
Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

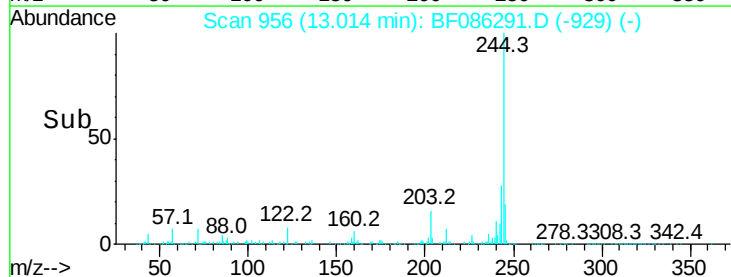
Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.4	9.6
122	9.6	11.7	17.5

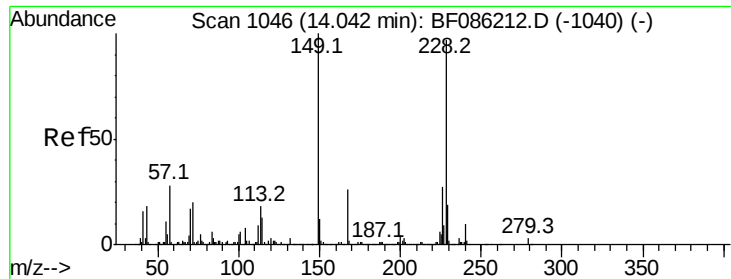


Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E



Time--> 12.90 13.00 13.10





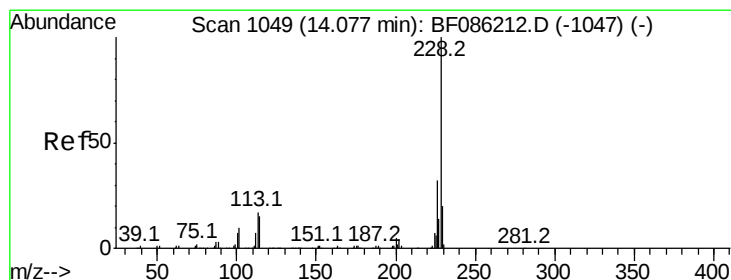
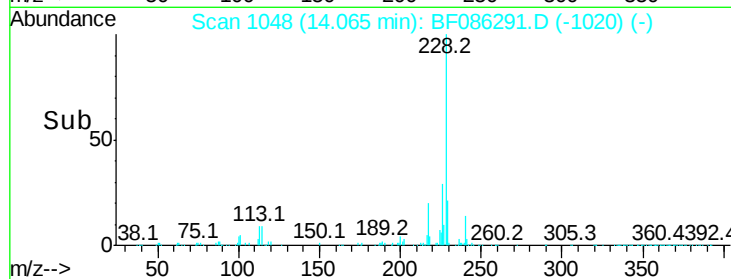
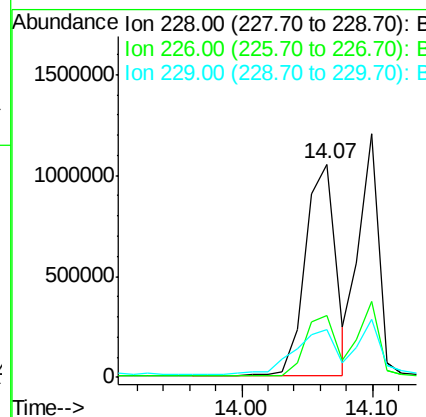
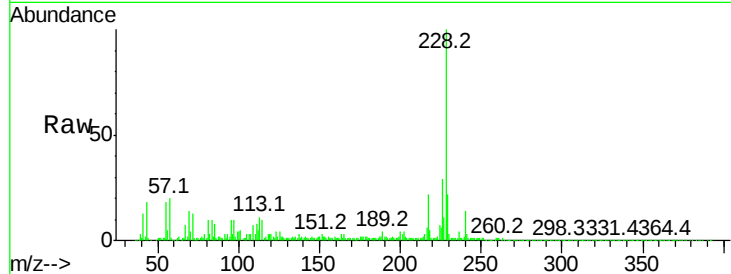
#80
Benzo(a)anthracene
Concen: 121.09 ng
RT: 14.07 min Scan# 1048
Delta R.T. 0.02 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Instrument :
BNA_F
ClientSampleId :
B31-1(0-2)

Tot Ion:228 Resp: 1694459
Ion Ratio Lower Upper
228 100
226 29.3 22.5 33.7
229 22.1 16.2 24.2

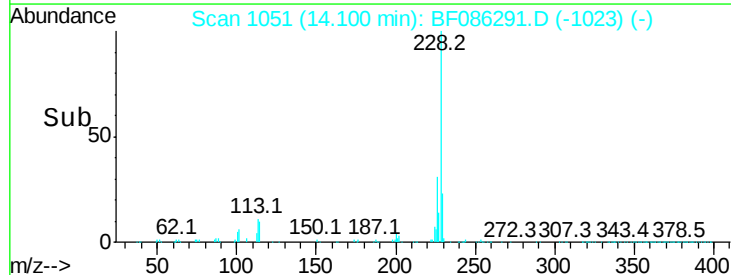
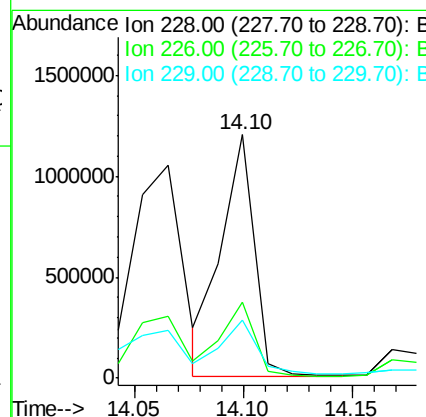
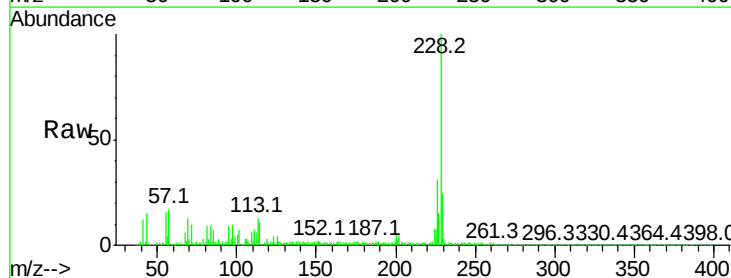
Manual Integrations
APPROVED

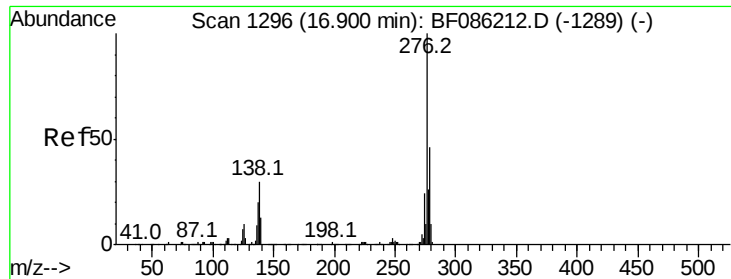
Sohil
4/19/2016 6:23:24 PM



#82
Chrysene
Concen: 85.11 ng
RT: 14.10 min Scan# 1051
Delta R.T. 0.02 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Tgt Ion:228 Resp: 1269864
Ion Ratio Lower Upper
228 100
226 31.0 25.4 38.2
229 23.9 16.5 24.7





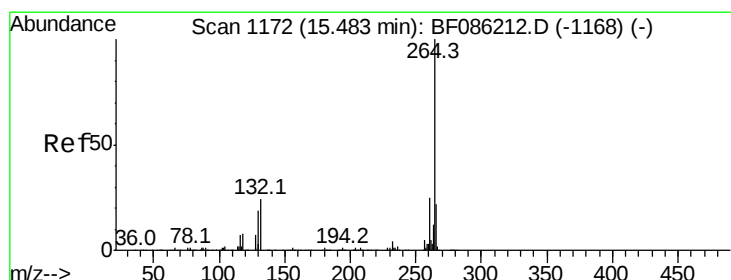
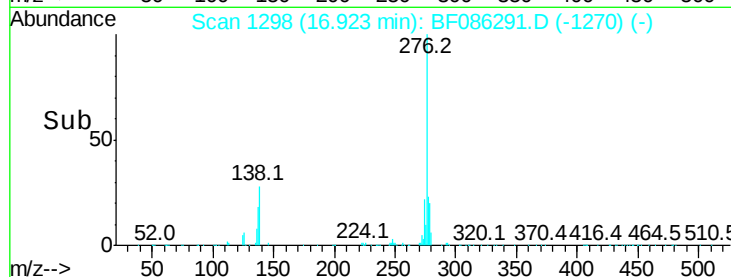
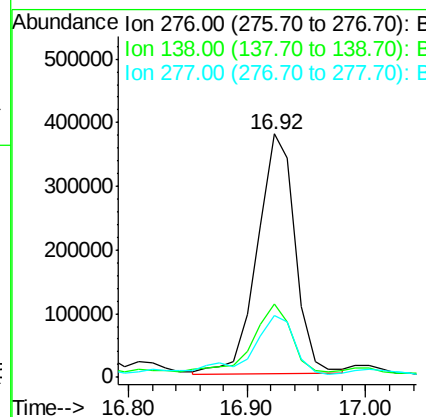
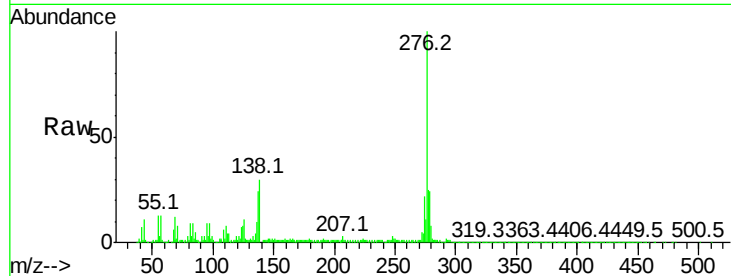
#85
Indeno(1,2,3-cd)pyrene
Concen: 67.61 ng
RT: 16.92 min Scan# 1298
Delta R.T. 0.02 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Instrument :
BNA_F
ClientSampleId :
B31-1(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
138	29.0	23.8	35.6
277	29.3	20.2	30.2

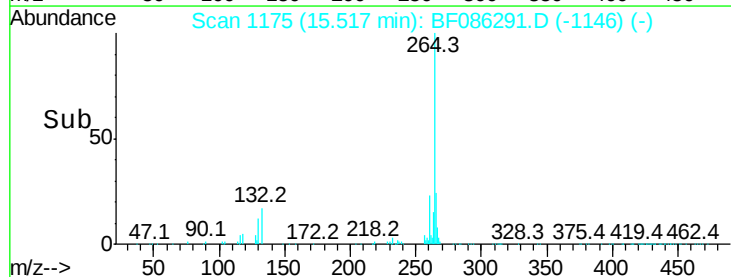
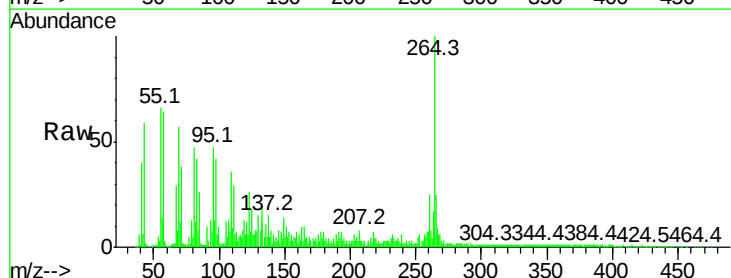
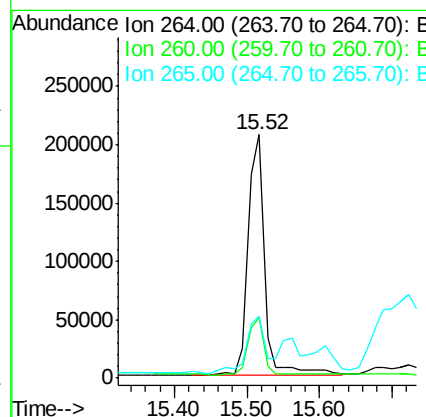
Manual Integrations
APPROVED

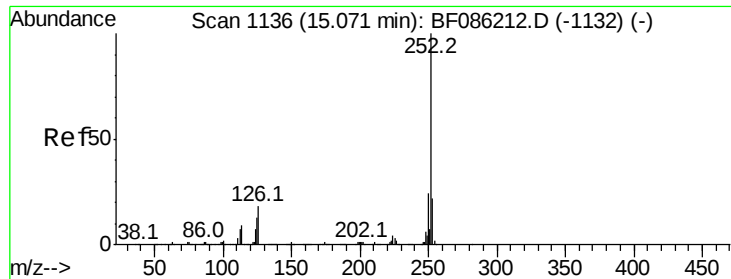
Sohil
4/19/2016 6:23:24 PM



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.52 min Scan# 1175
Delta R.T. 0.03 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.8	20.0	30.0
265	25.5	17.4	26.0





#87

Benzo(b)fluoranthene

Concen: 78.42 ng m

RT: 15.11 min Scan# 1139

Delta R.T. 0.03 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Instrument :

BNA_F

ClientSampleId :

B31-1(0-2)

Tot Ion:252 Resp: 1586349

Ion Ratio Lower Upper

252 100

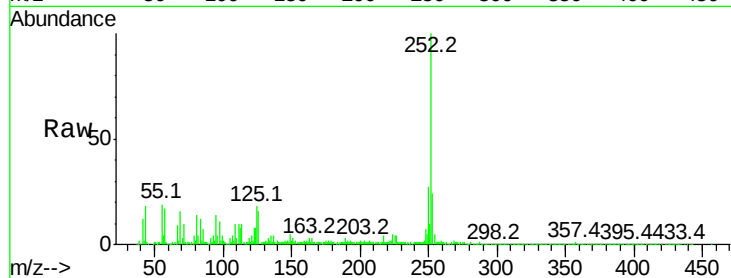
253 24.5 17.7 26.5

125 17.8 10.3 15.5#

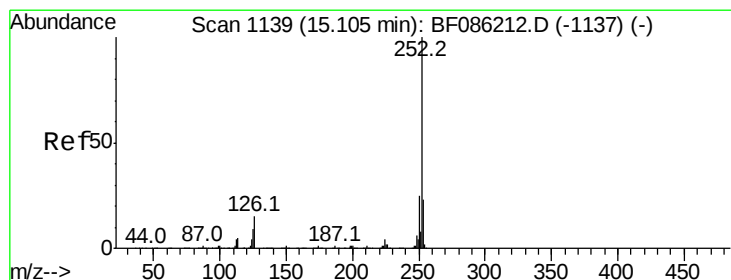
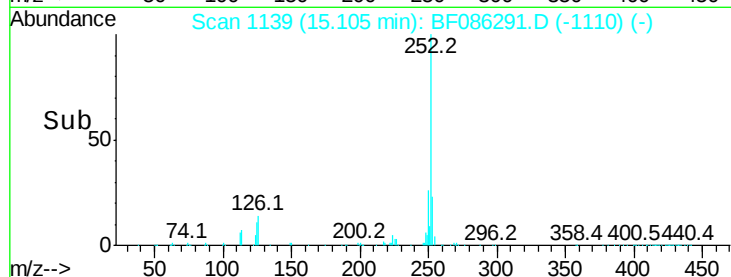
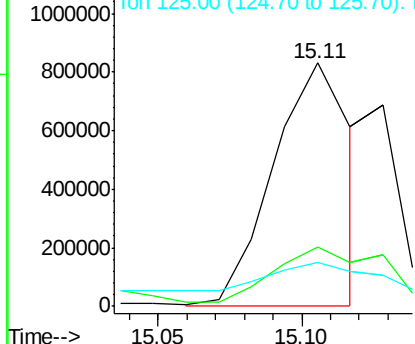
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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 29.64 ng m

RT: 15.13 min Scan# 1141

Delta R.T. 0.02 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Tgt Ion:252 Resp: 546622

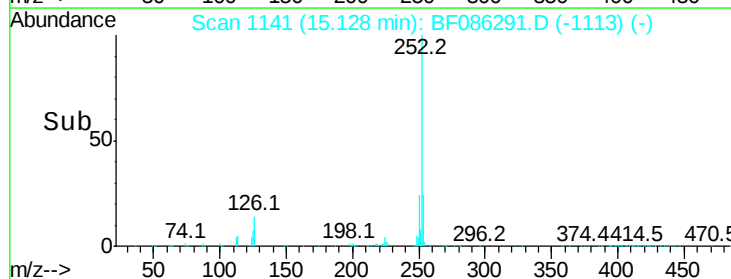
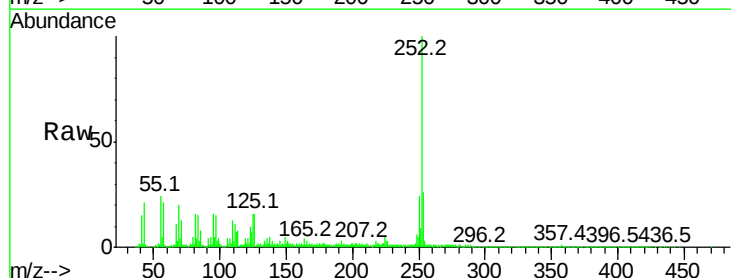
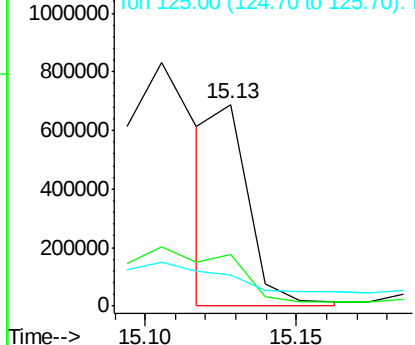
Ion Ratio Lower Upper

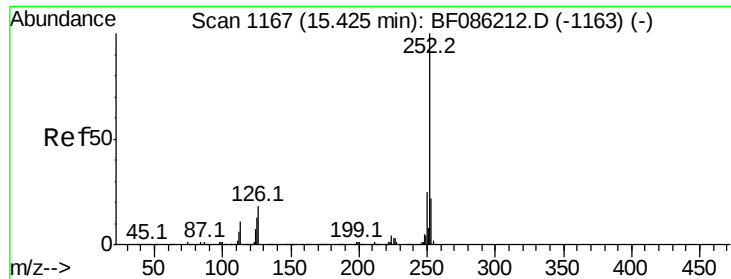
252 100

253 25.8 17.5 26.3

125 15.7 7.8 11.6#

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





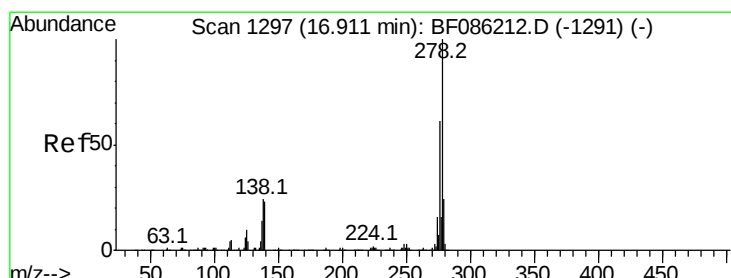
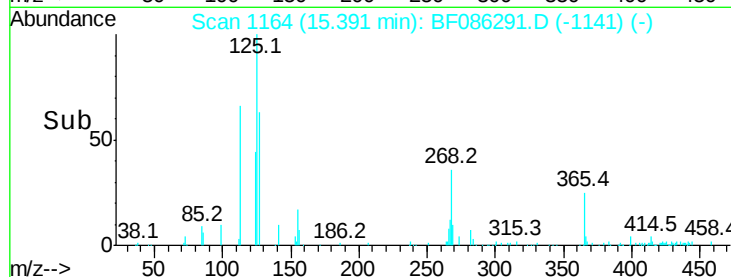
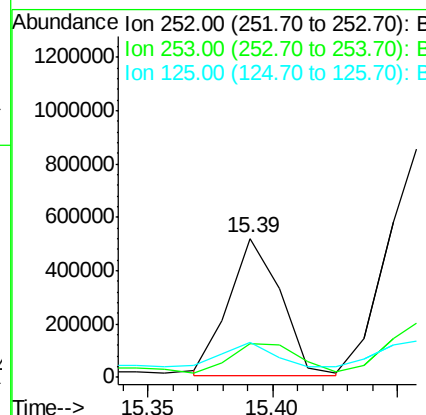
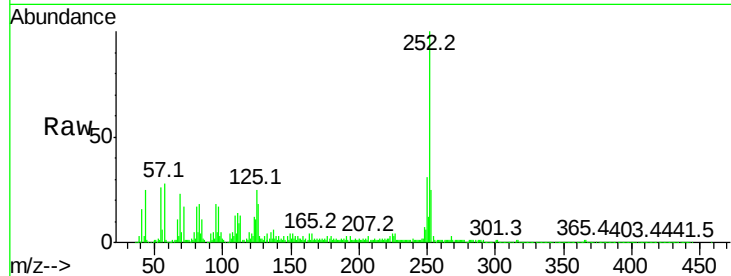
#89
Benzo(a)pyrene
Concen: 42.28 ng/ml
RT: 15.39 min Scan# 1164
Delta R.T. -0.03 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Instrument :
BNA_F
Client Sample ID :
B31-1(0-2)

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.7	17.8	26.8
125	25.1	11.2	16.8

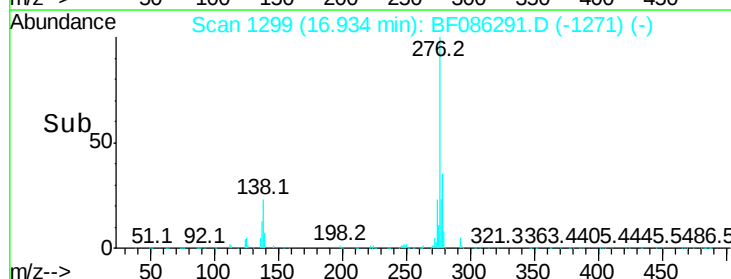
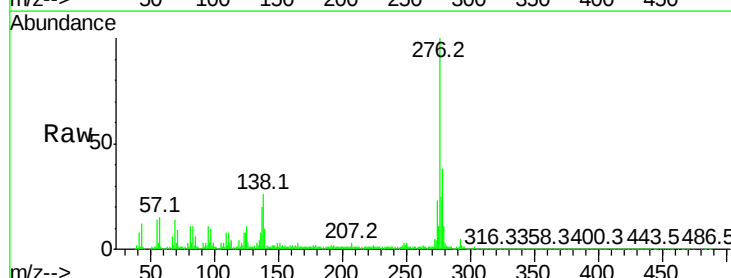
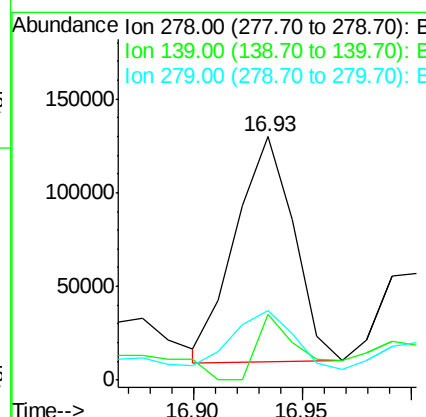
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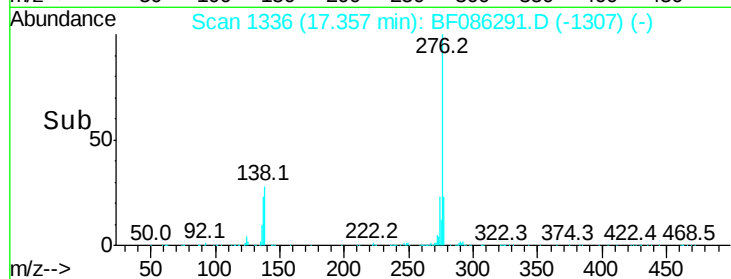
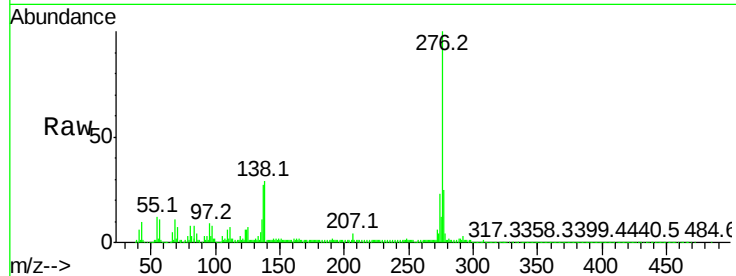
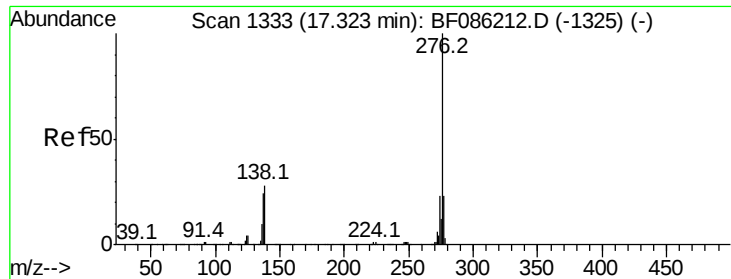
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#90
Dibenzo(a,h)anthracene
Concen: 14.45 ng/ml
RT: 16.93 min Scan# 1299
Delta R.T. 0.02 min
Lab File: BF086291.D
Acq: 18 Apr 2016 19:36

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.0	15.3	22.9
279	28.8	19.1	28.7





#91

Benzo(a,h,i)perylene

Concen: 45.61 ng

RT: 17.36 min Scan# 1336

Delta R.T. 0.03 min

Lab File: BF086291.D

Acq: 18 Apr 2016 19:36

Instrument :

BNA_F

ClientSampleId :

B31-1(0-2)

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.0	28.6
138	28.9	19.6	29.4

Manual Integrations
APPROVED

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