

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
 Data File : BF086914.D
 Acq On : 12 May 2016 3:51
 Operator : UM/SJ
 Sample : H2965-04
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-16(6.5-7)

Manual Integrations
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Quant Time: May 12 12:26:56 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu May 12 01:06:48 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.63	152	125881	20.00	ng	-0.01
21) Naphthalene-d8	7.92	136	474104	20.00	ng	0.00
38) Acenaphthene-d10	9.67	164	182546	20.00	ng	-0.01
63) Phenanthrene-d10	11.14	188	292267	20.00	ng	-0.01
75) Chrysene-d12	13.78	240	253682	20.00	ng	0.00
86) Perylene-d12	15.14	264	208571	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	898364	120.86	ng	0.01
7) Phenol-d6	6.30	99	996095	100.27	ng	-0.01
23) Nitrobenzene-d5	7.21	82	767247	81.26	ng	-0.01
41) 2,4,6-Tribromophenol	10.46	330	174172	90.13	ng	-0.01
44) 2-Fluorobiphenyl	9.00	172	880060	81.02	ng	0.00
78) Terphenyl-d14	12.73	244	597819	50.00	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.94	128	273011	11.50	ng	99
37) 2-Methylnaphthalene	8.63	142	54812m	3.95	ng	
48) Acenaphthylene	9.53	152	60459	3.61	ng	97
49) Dimethylphthalate	9.40	163	88504	6.35	ng	98
51) Acenaphthene	9.70	154	94016	9.03	ng	98
54) Dibenzofuran	9.87	168	111528	8.35	ng	98
57) Fluorene	10.22	166	92546	8.12	ng	99
70) Phenanthrene	11.18	178	1262212	80.93	ng	99
71) Anthracene	11.22	178	286622	17.97	ng	98
72) Carbazole	11.38	167	119364	8.70	ng	98
74) Fluoranthene	12.35	202	1257744	78.40	ng	99
77) Pyrene	12.58	202	1079130	55.56	ng	99
80) Benzo(a)anthracene	13.77	228	592944	41.64	ng	99
82) Chrysene	13.81	228	513514	35.45	ng	98
85) Indeno(1,2,3-cd)pyrene	16.40	276	174467	14.48	ng	# 93
87) Benzo(b)fluoranthene	14.78	252	574911m	42.41	ng	
88) Benzo(k)fluoranthene	14.79	252	94550m	8.52	ng	
89) Benzo(a)pyrene	15.09	252	345982	29.59	ng	97
90) Dibenzo(a,h)anthracene	16.40	278	42310m	4.29	ng	
91) Benzo(g,h,i)perylene	16.78	276	151694	15.15	ng	# 91

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

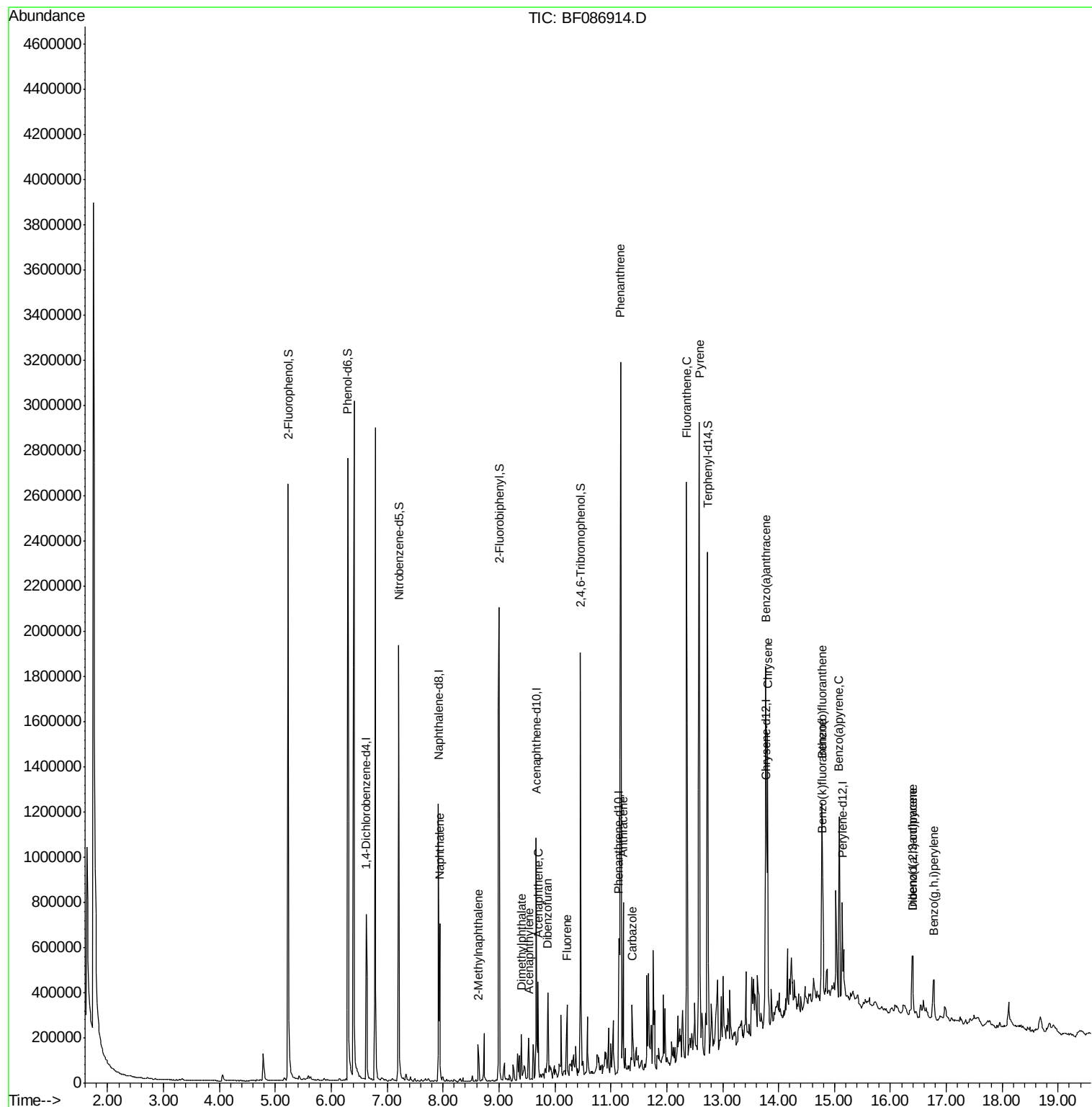
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
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ALS Vial : 25 Sample Multiplier: 1

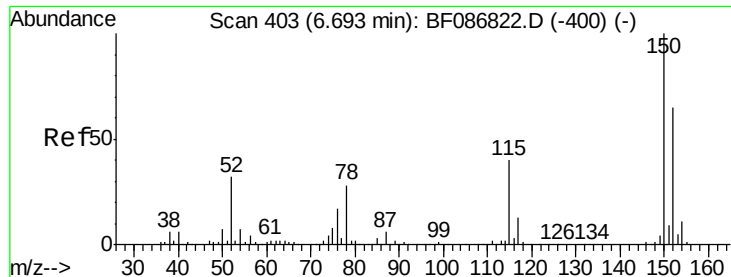
Instrument :
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E-16(6.5-7)

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QLast Update : Thu May 12 01:06:48 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 441

Delta R.T. -0.01 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Instrument :

BNA_F

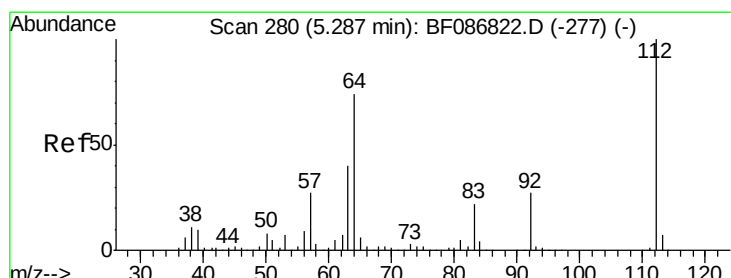
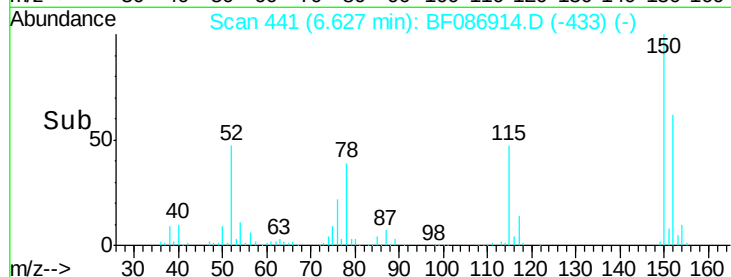
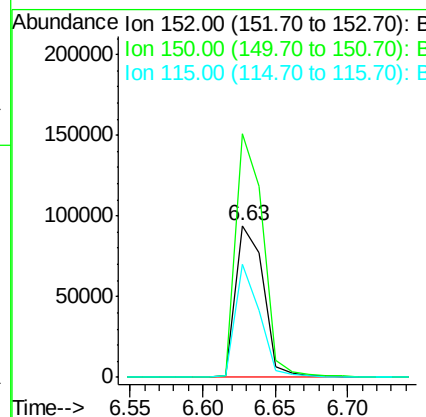
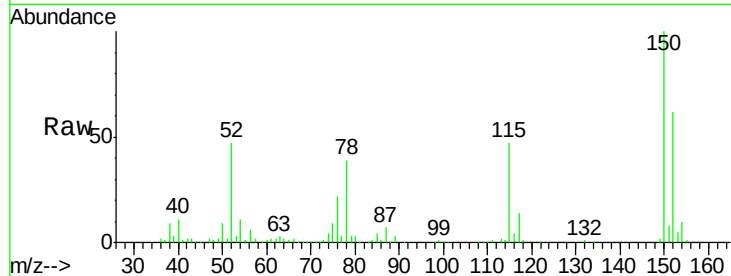
ClientSampled :

E-16(6.5-7)

Tgt Ion:	152	Resp:	125881
Ion Ratio	Lower	Upper	
152	100		
150	160.8	125.8	188.6
115	74.9	51.5	77.3

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#5

2-Fluorophenol

Concen: 120.86 ng

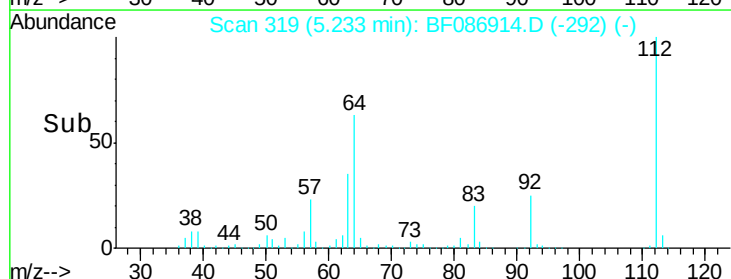
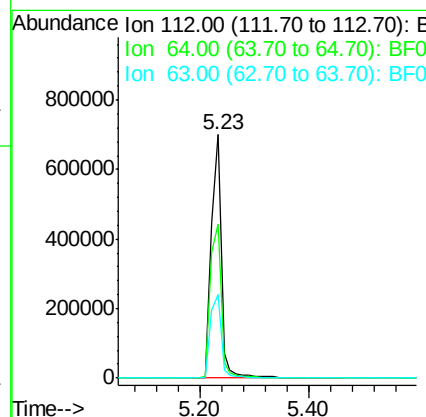
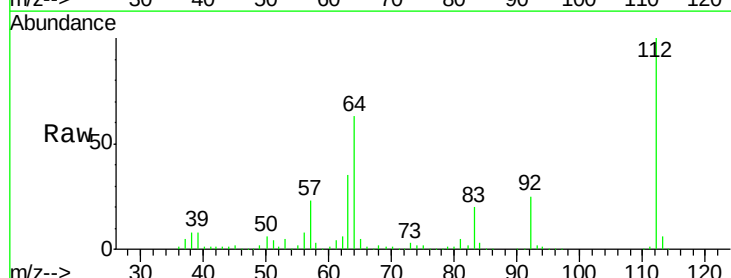
RT: 5.23 min Scan# 319

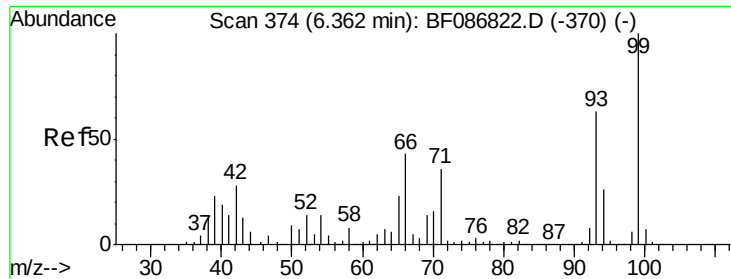
Delta R.T. 0.01 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Tgt Ion:	112	Resp:	898364
Ion Ratio	Lower	Upper	
112	100		
64	63.5	52.1	78.1
63	34.6	25.7	38.5





#7

Phenol-d6

Concen: 100.27 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.01 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Instrument :

BNA_F

ClientSampled :

E-16(6.5-7)

Tgt Ion: 99 Resp: 996095
Ion Ratio Lower Upper

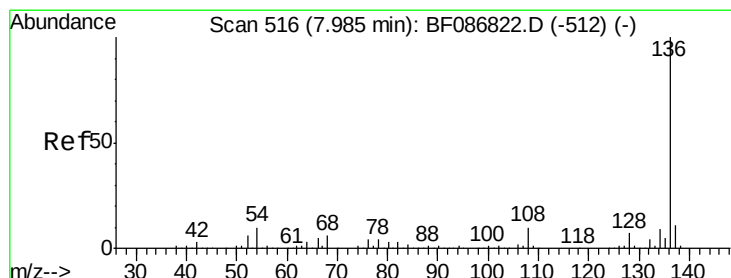
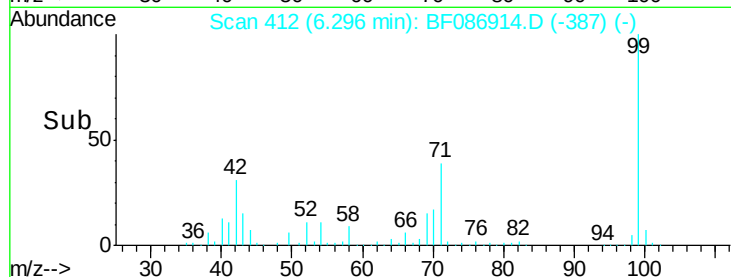
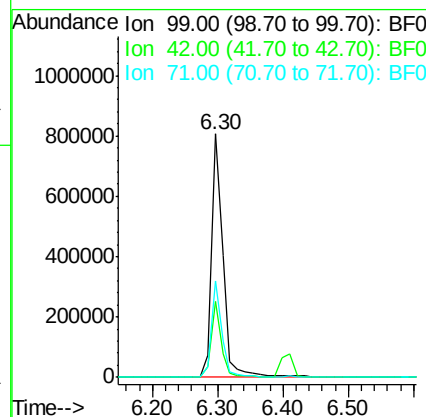
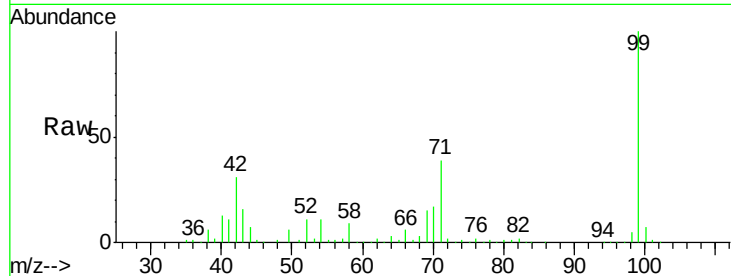
99 100

42 31.4 13.6 20.4#

71 39.4 24.6 36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.92 min Scan# 554

Delta R.T. 0.00 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

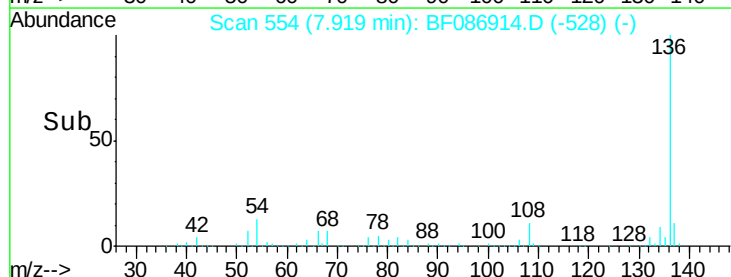
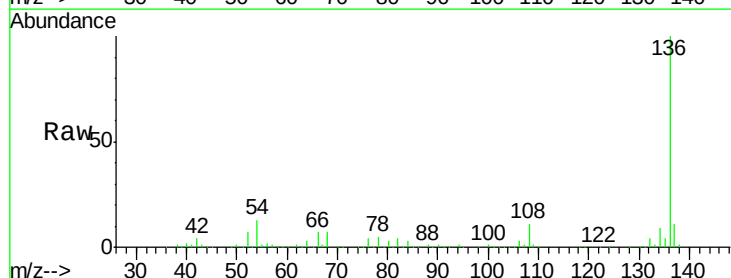
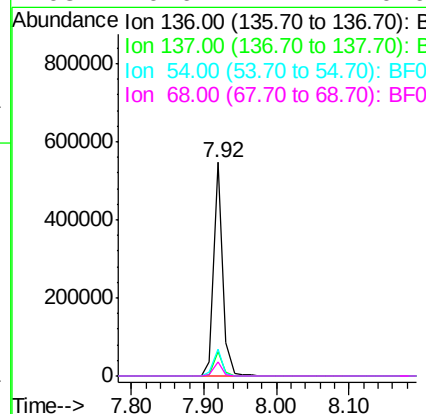
Tgt Ion: 136 Resp: 474104
Ion Ratio Lower Upper

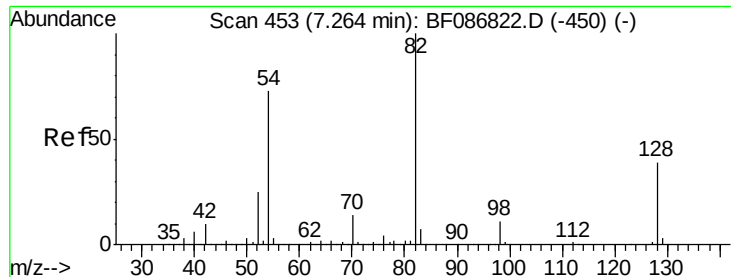
136 100

137 11.3 8.8 13.2

54 12.7 5.0 7.4#

68 6.6 4.4 6.6#





#23

Nitrobenzene-d5

Concen: 81.26 ng

RT: 7.21 min Scan# 492

Delta R.T. -0.01 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Instrument :

BNA_F

ClientSampleId :

E-16(6.5-7)

Tgt Ion: 82 Resp: 767247
Ion Ratio Lower Upper

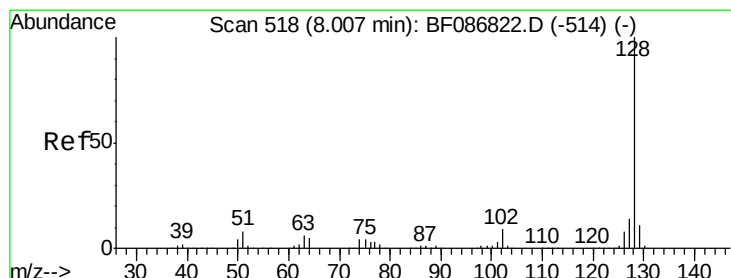
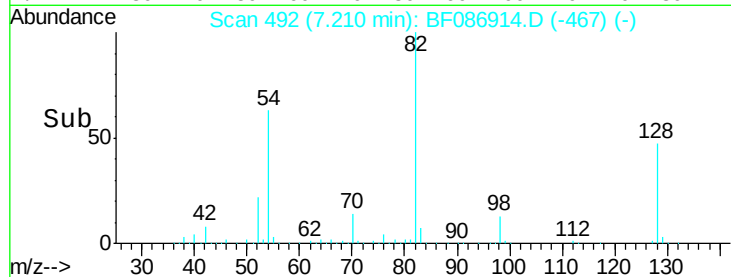
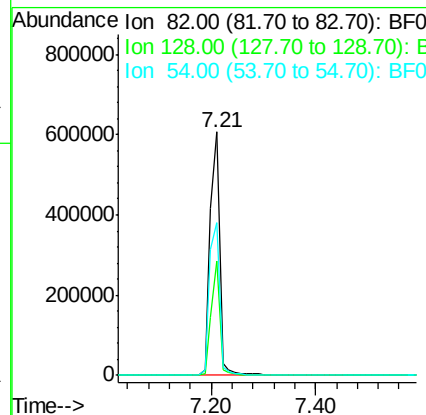
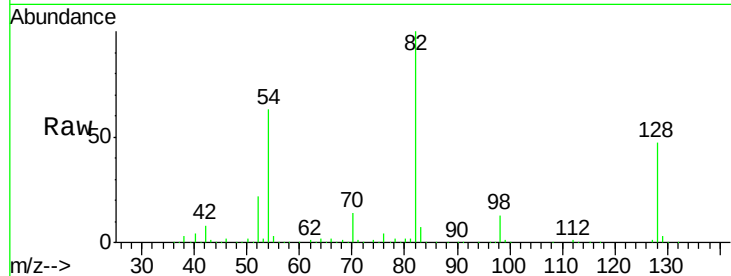
82 100

128 46.9 40.6 61.0

54 62.6 38.1 57.1#

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#31

Naphthalene

Concen: 11.50 ng

RT: 7.94 min Scan# 556

Delta R.T. 0.00 min

Lab File: BF086914.D

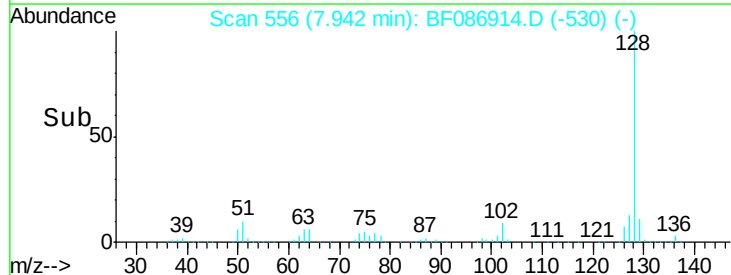
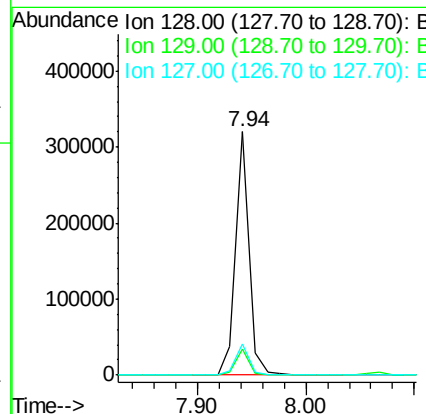
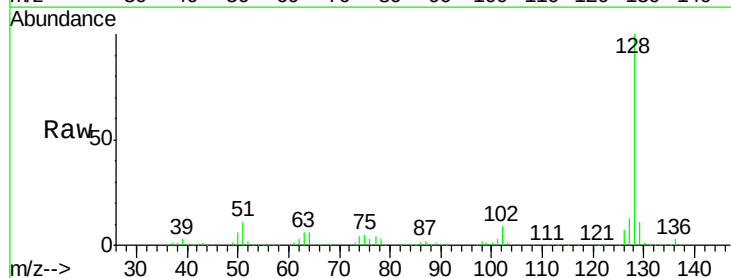
Acq: 12 May 2016 3:51

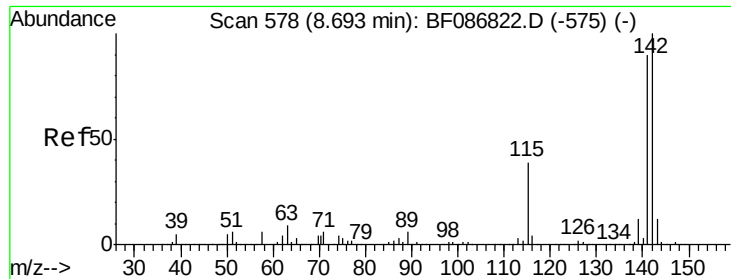
Tgt Ion: 128 Resp: 273011
Ion Ratio Lower Upper

128 100

129 10.6 8.6 13.0

127 13.0 10.8 16.2





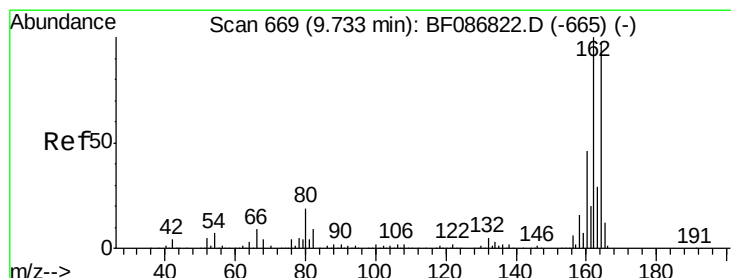
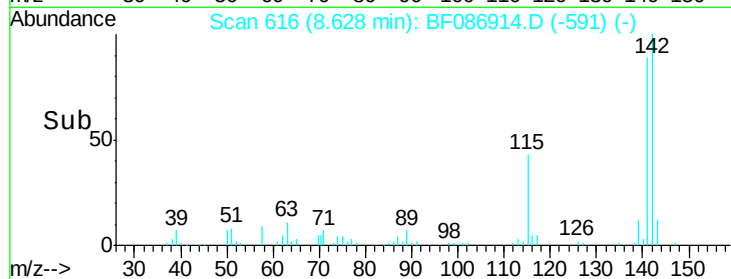
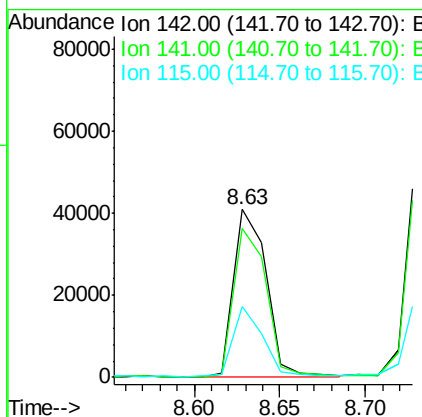
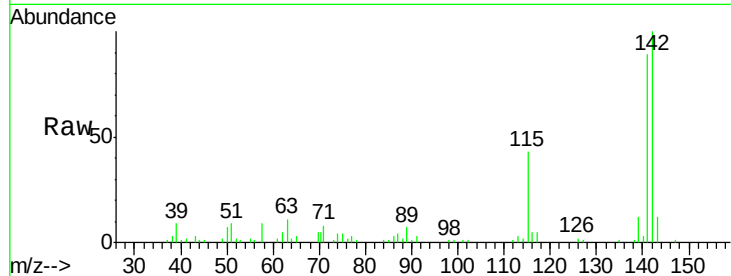
#37
2-Methylnaphthalene
Concen: 3.95 ng m
RT: 8.63 min Scan# 616
Delta R.T. -0.01 min
Lab File: BF086914.D
Acq: 12 May 2016 3:51

Instrument :
BNA_F
ClientSampleId :
E-16(6.5-7)

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.6	71.0	106.6
115	42.5	26.6	39.8

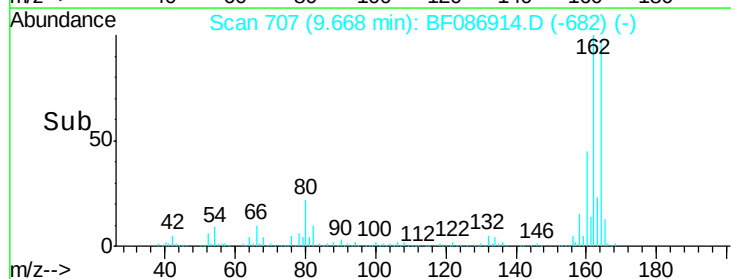
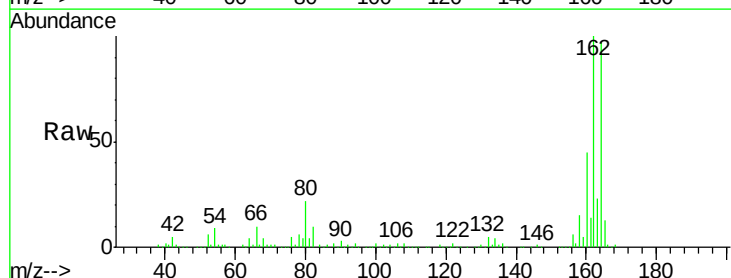
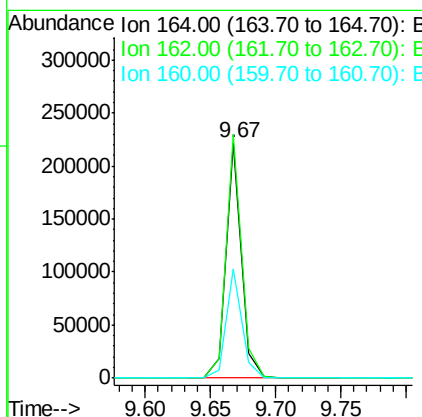
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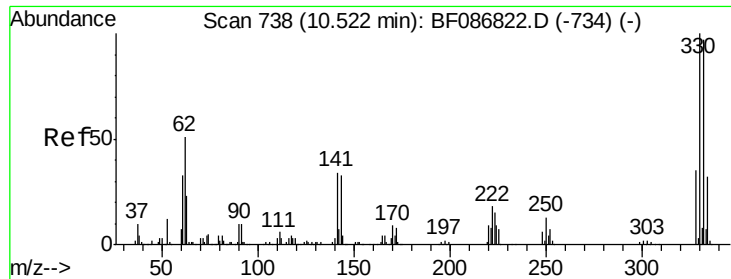
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.67 min Scan# 707
Delta R.T. -0.01 min
Lab File: BF086914.D
Acq: 12 May 2016 3:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.5	82.8	124.2
160	46.3	36.9	55.3





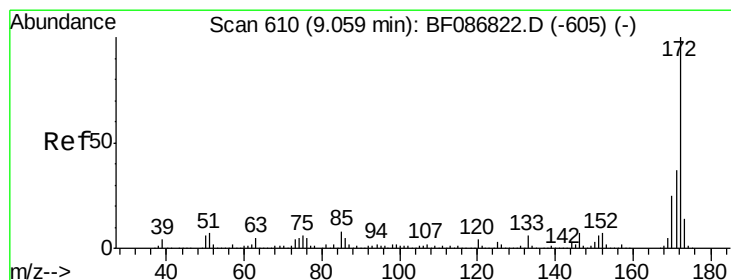
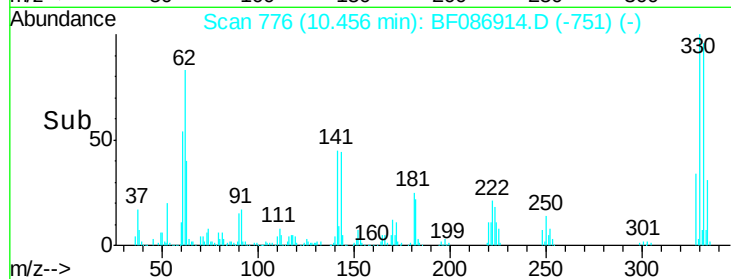
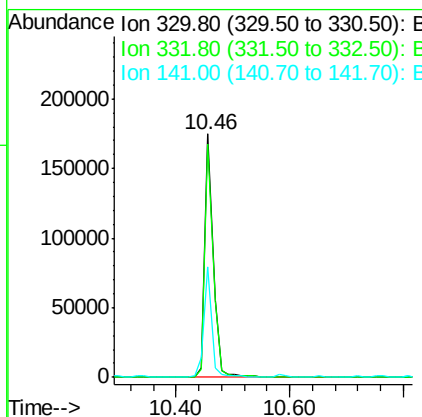
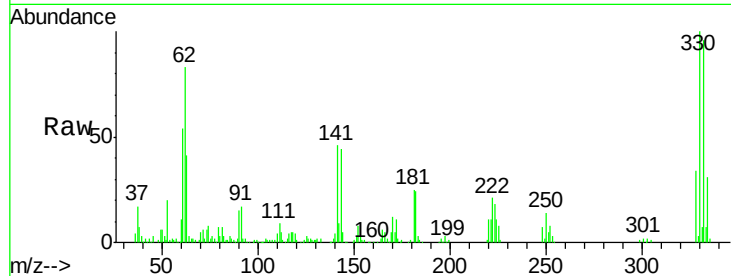
#41
 2,4,6-Tribromophenol
 Concen: 90.13 ng
 RT: 10.46 min Scan# 776
 Delta R.T. -0.01 min
 Lab File: BF086914.D
 Acq: 12 May 2016 3:51

Instrument :
 BNA_F
 ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
330	100	174172		
332	96.0	79.0	118.4	
141	42.6	31.2	46.8	

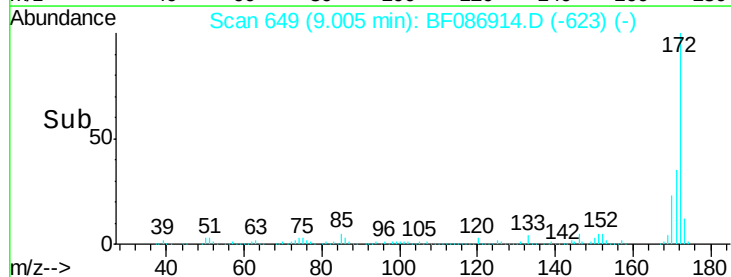
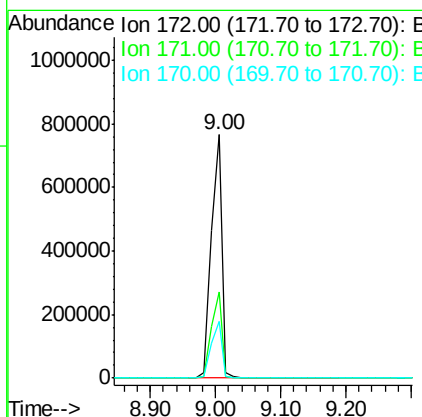
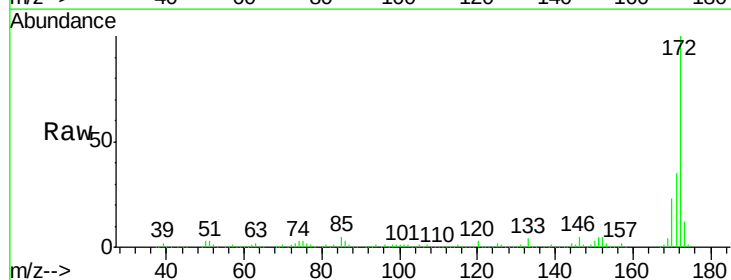
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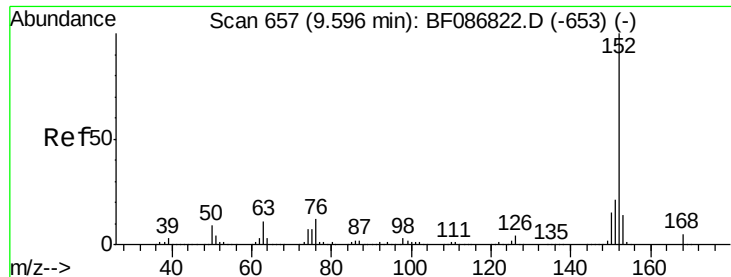
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#44
 2-Fluorobiphenyl
 Concen: 81.02 ng
 RT: 9.00 min Scan# 649
 Delta R.T. 0.00 min
 Lab File: BF086914.D
 Acq: 12 May 2016 3:51

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	880060		
171	35.3	29.0	43.6	
170	23.5	19.8	29.8	





#48

Acenaphthylene

Concen: 3.61 ng

RT: 9.53 min Scan# 695

Delta R.T. -0.01 min

Lab File: BF086914.D

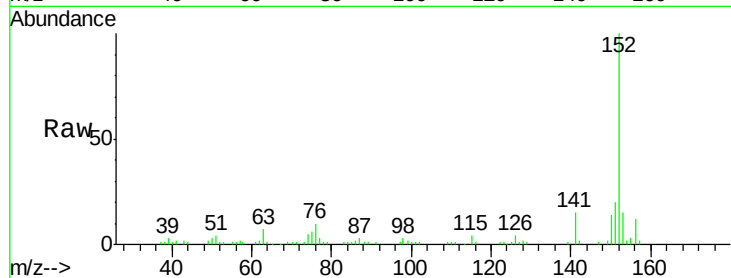
Acq: 12 May 2016 3:51

Instrument :

BNA_F

ClientSampleId :

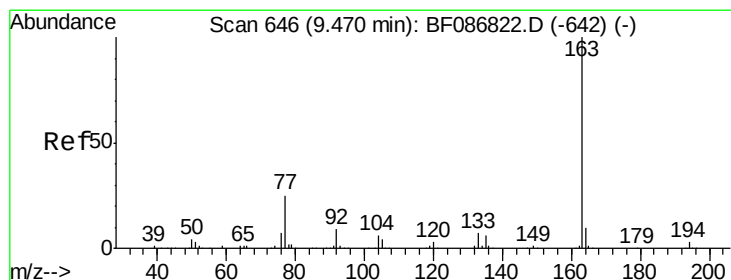
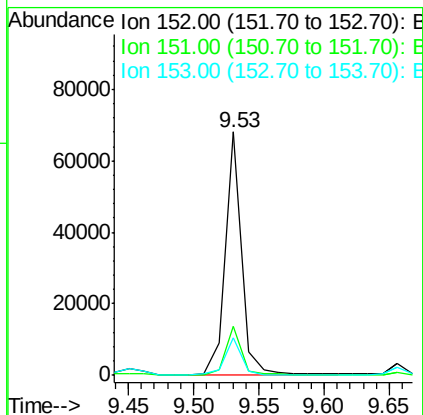
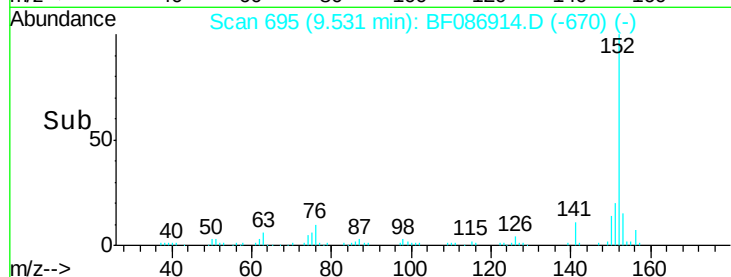
E-16(6.5-7)



Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.8	25.2
153	15.3	10.9	16.3

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#49

Dimethylphthalate

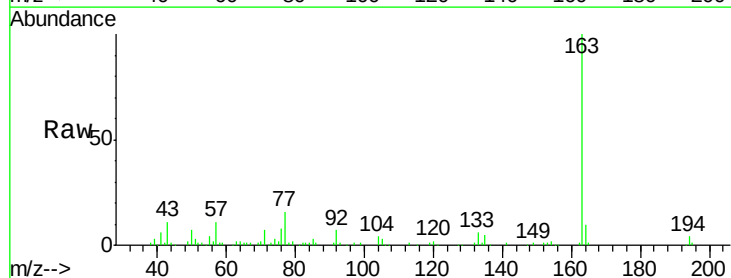
Concen: 6.35 ng

RT: 9.40 min Scan# 684

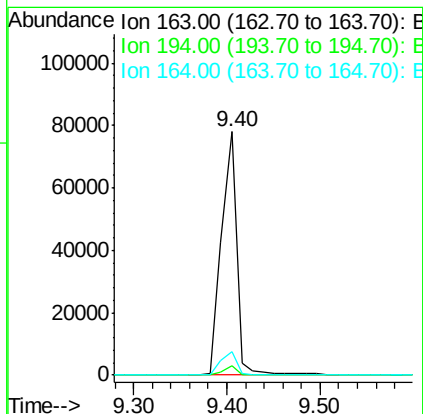
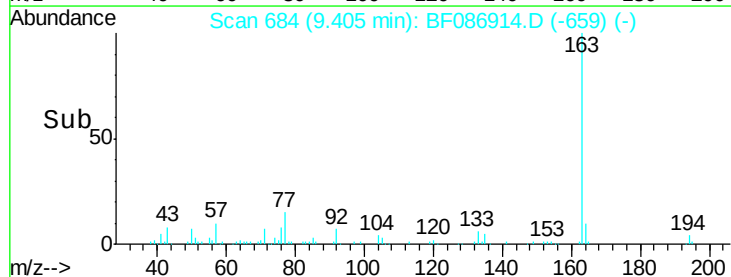
Delta R.T. -0.01 min

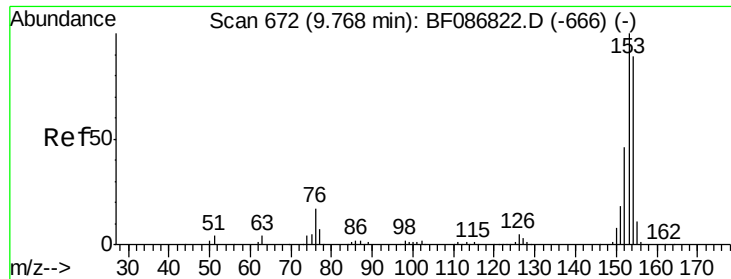
Lab File: BF086914.D

Acq: 12 May 2016 3:51



Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	2.6	4.0
164	9.5	8.2	12.4





#51

Acenaphthene

Concen: 9.03 ng

RT: 9.70 min Scan# 710

Delta R.T. -0.01 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Instrument :

BNA_F

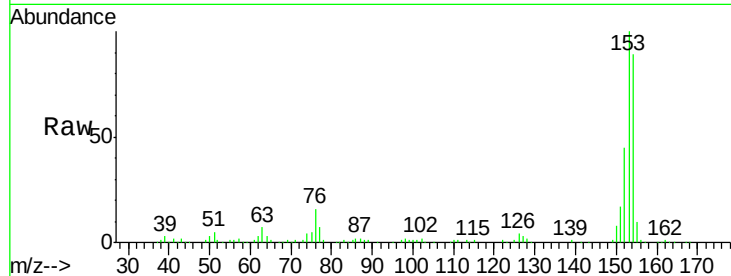
ClientSampleId :

E-16(6.5-7)

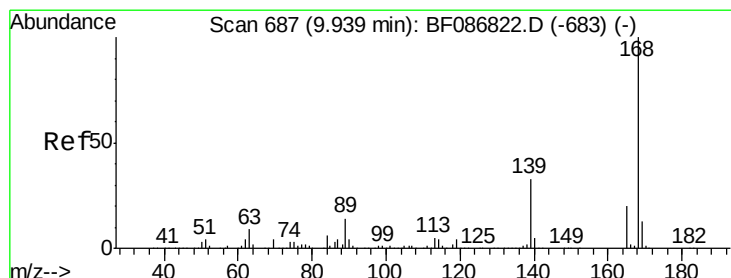
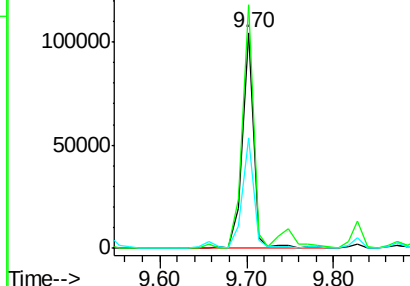
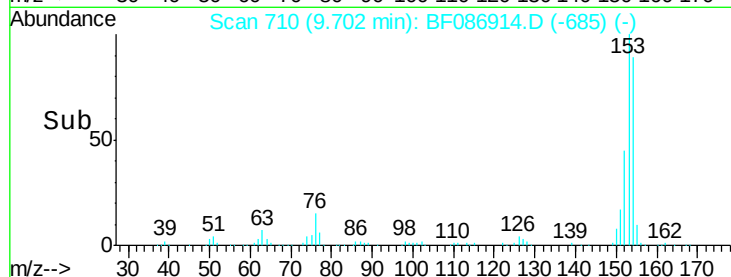
Tgt Ion:	154	Resp:	94016
Ion Ratio	Lower	Upper	
154	100		
153	112.8	89.8	134.6
152	51.3	43.4	65.0

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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 8.35 ng

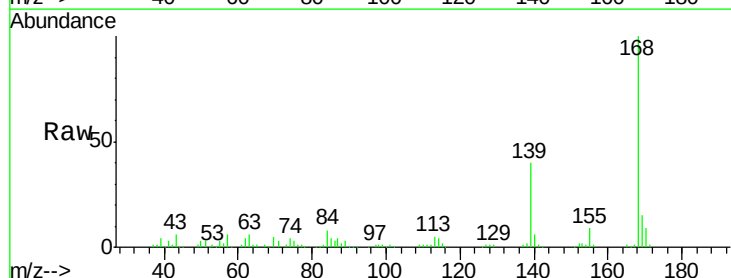
RT: 9.87 min Scan# 725

Delta R.T. -0.01 min

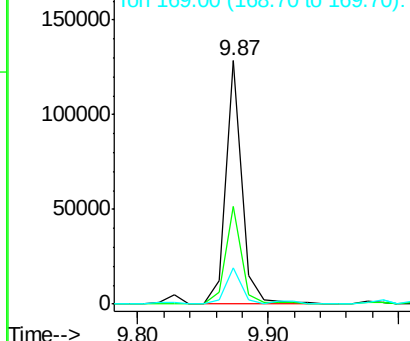
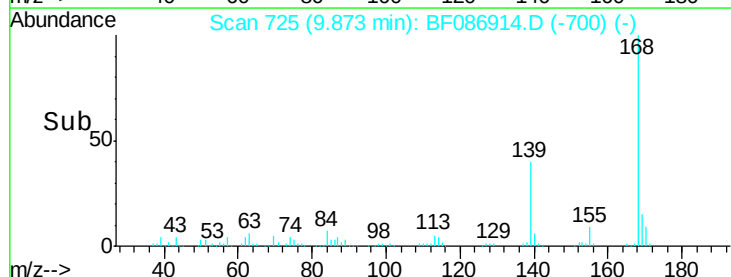
Lab File: BF086914.D

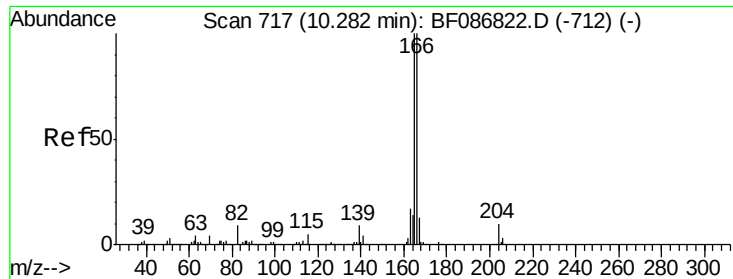
Acq: 12 May 2016 3:51

Tgt Ion:	168	Resp:	111528
Ion Ratio	Lower	Upper	
168	100		
139	39.9	31.4	47.0
169	14.7	10.7	16.1



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





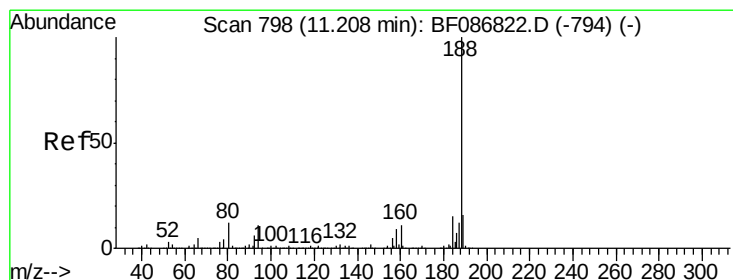
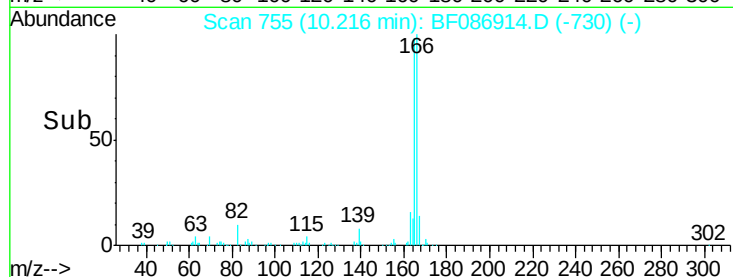
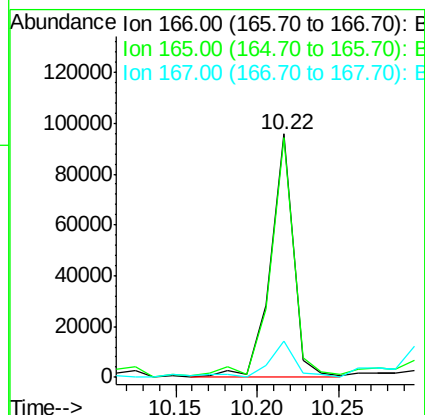
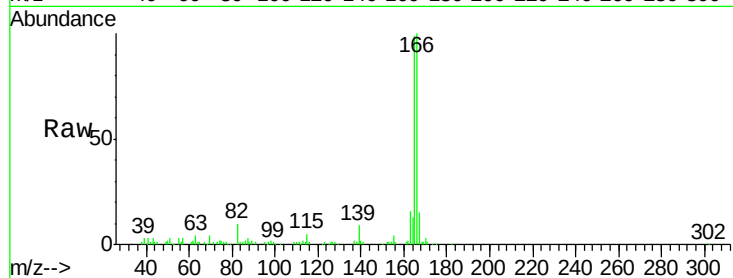
#57
 Fluorene
 Concen: 8.12 ng
 RT: 10.22 min Scan# 755
 Delta R.T. -0.01 min
 Lab File: BF086914.D
 Acq: 12 May 2016 3:51

Instrument :
 BNA_F
 ClientSampleId :
 E-16(6.5-7)

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	92546		
165	98.6	79.0	118.6	
167	14.8	10.6	15.8	

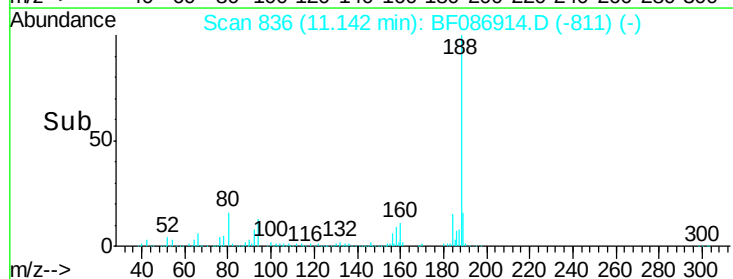
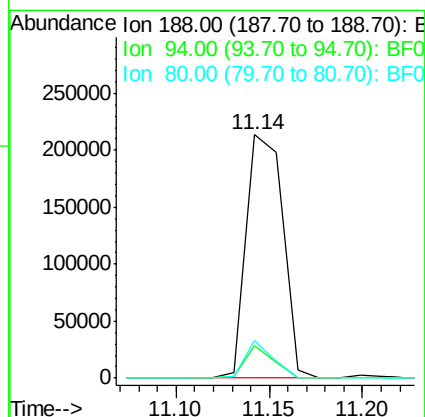
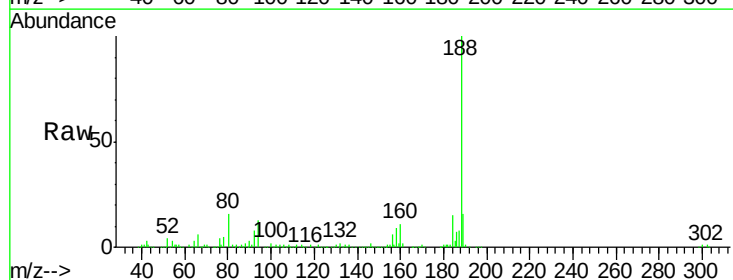
Manual Integrations
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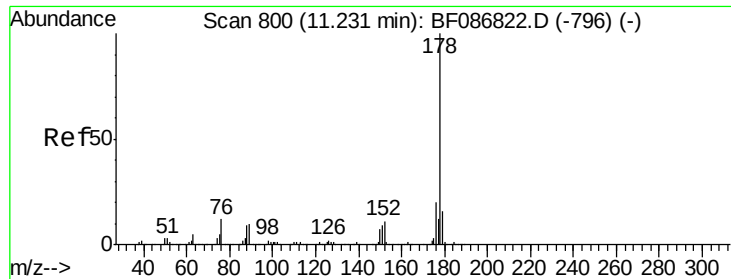
sohil
 5/12/2016 7:00:24 PM



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.14 min Scan# 836
 Delta R.T. -0.01 min
 Lab File: BF086914.D
 Acq: 12 May 2016 3:51

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	292267		
94	13.3	6.8	10.2#	
80	15.6	7.1	10.7#	





#70

Phenanthrene

Concen: 80.93 ng

RT: 11.18 min Scan# 839

Delta R.T. 0.00 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Instrument :

BNA_F

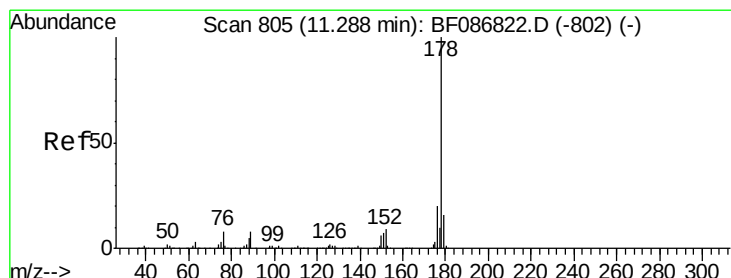
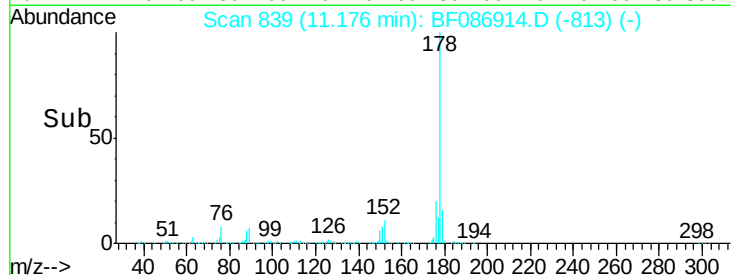
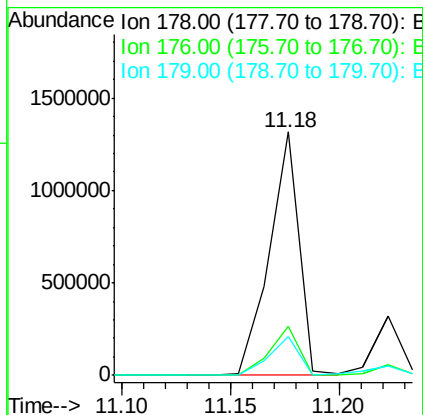
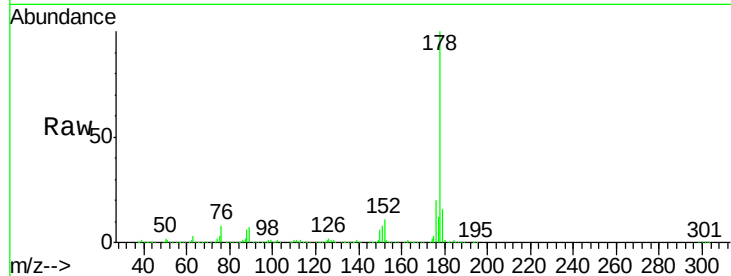
ClientSampleId :

E-16(6.5-7)

Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	16.0	24.0
179	15.8	12.6	18.8

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#71

Anthracene

Concen: 17.97 ng

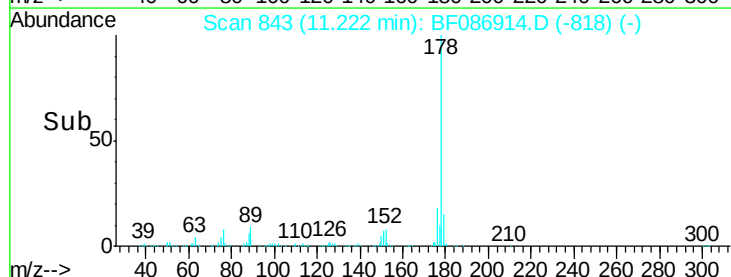
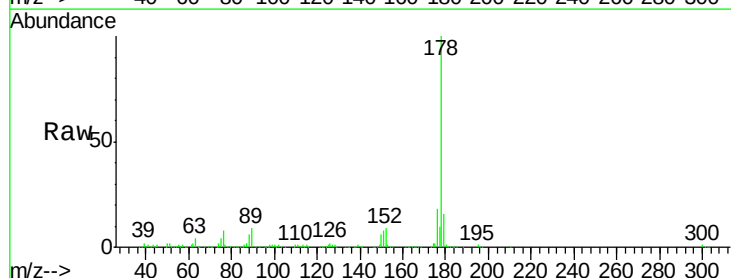
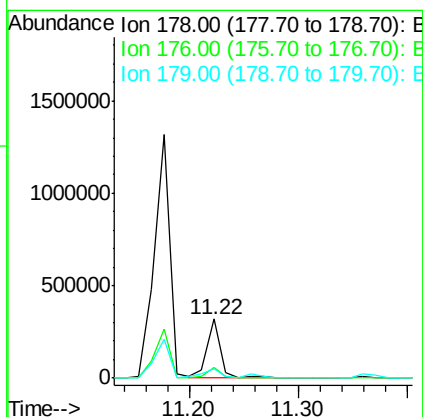
RT: 11.22 min Scan# 843

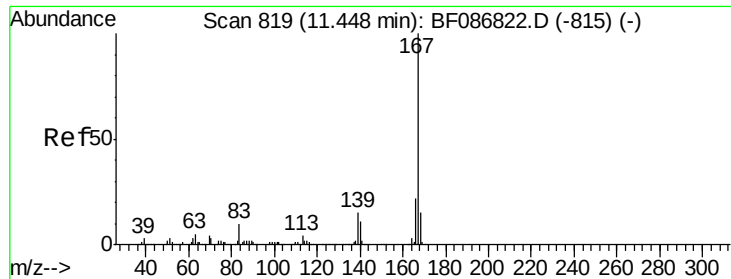
Delta R.T. -0.01 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.6	23.4
179	15.6	12.7	19.1





#72

Carbazole

Concen: 8.70 ng

RT: 11.38 min Scan# 857

Delta R.T. -0.01 min

Lab File: BF086914.D

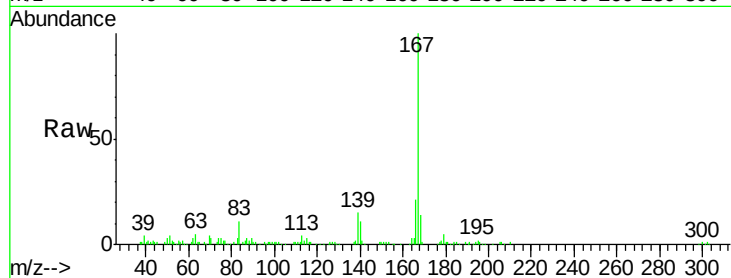
Acq: 12 May 2016 3:51

Instrument :

BNA_F

ClientSampleId :

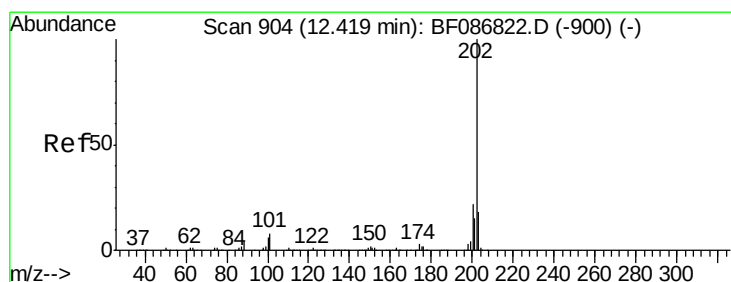
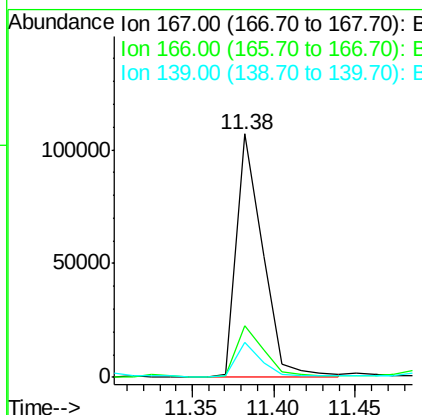
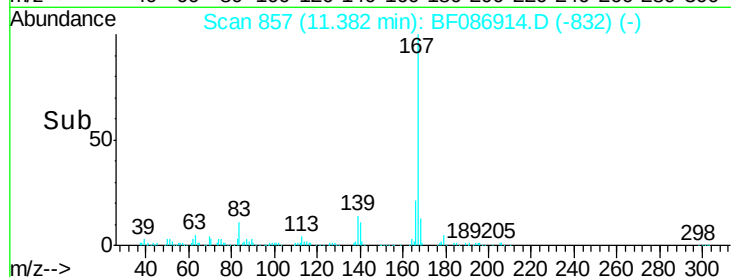
E-16(6.5-7)



Tgt Ion:	167	Resp:	119364
Ion Ratio	Lower	Upper	
167	100		
166	21.2	17.7	26.5
139	14.6	10.8	16.2

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#74

Fluoranthene

Concen: 78.40 ng

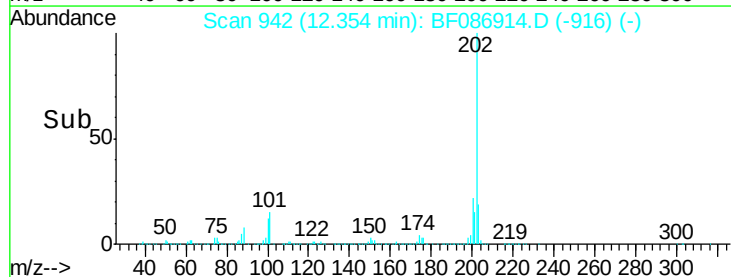
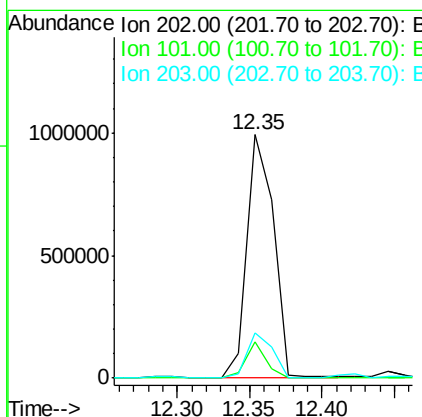
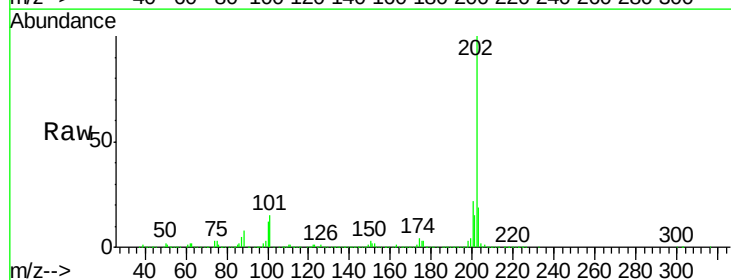
RT: 12.35 min Scan# 942

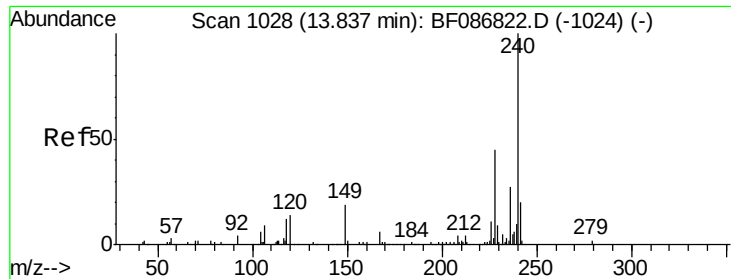
Delta R.T. 0.00 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Tgt Ion:	202	Resp:	1257744
Ion Ratio	Lower	Upper	
202	100		
101	15.0	0.0	35.4
203	18.5	0.0	38.1





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.78 min Scan# 1067

Delta R.T. 0.00 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Instrument :

BNA_F

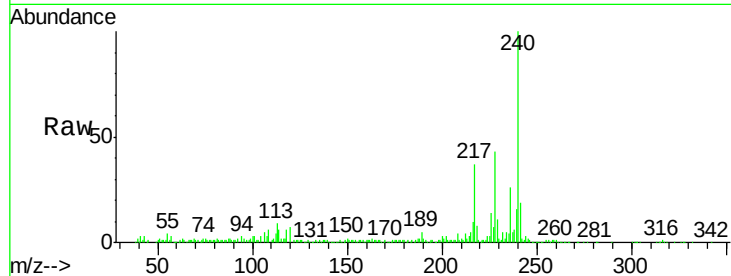
ClientSampleId :

E-16(6.5-7)

Tgt Ion:	240	Resp:	253682
Ion Ratio	Lower	Upper	
240	100		
120	7.3	11.2	16.8#
236	25.9	21.2	31.8

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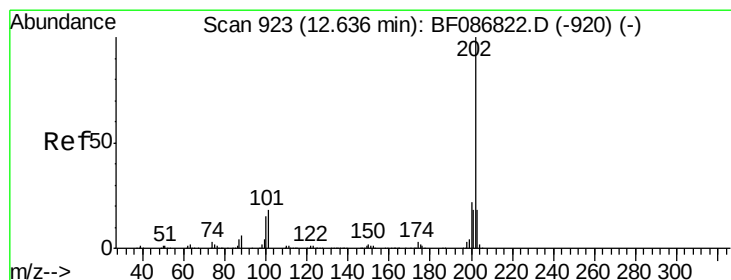
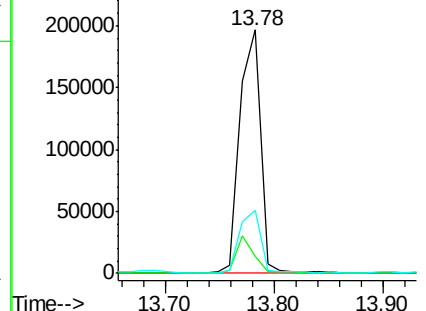
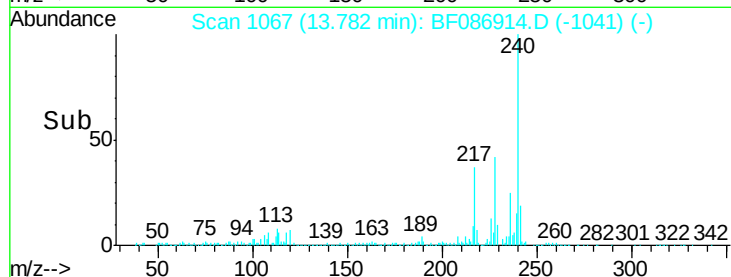
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 55.56 ng

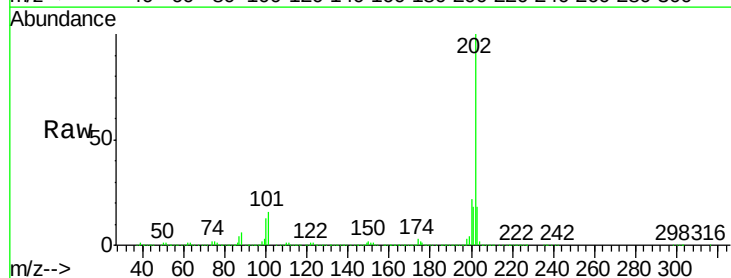
RT: 12.58 min Scan# 962

Delta R.T. 0.00 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

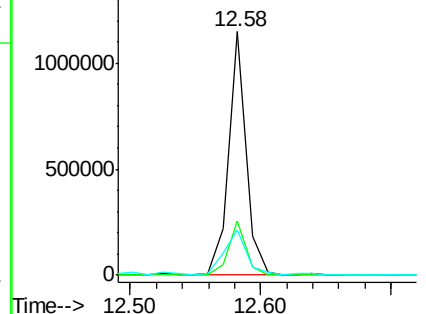
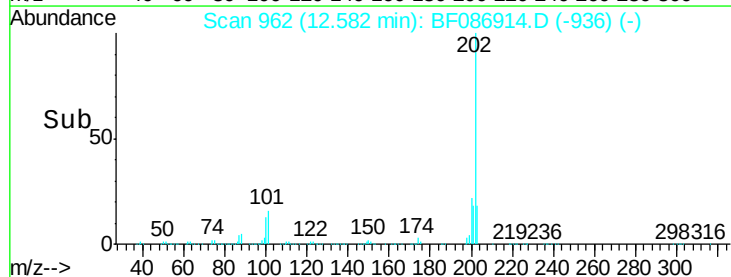
Tgt Ion:	202	Resp:	1079130
Ion Ratio	Lower	Upper	
202	100		
200	22.1	17.7	26.5
203	18.4	14.2	21.4

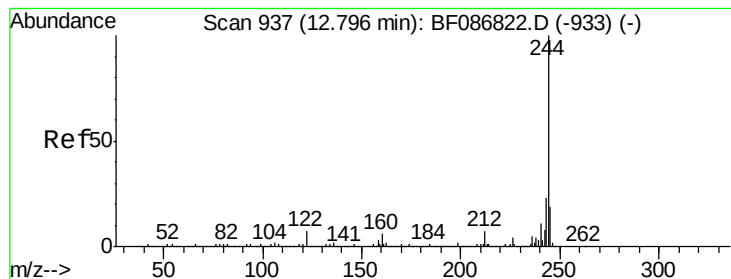


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 50.00 ng

RT: 12.73 min Scan# 975

Delta R.T. 0.00 min

Lab File: BF086914.D

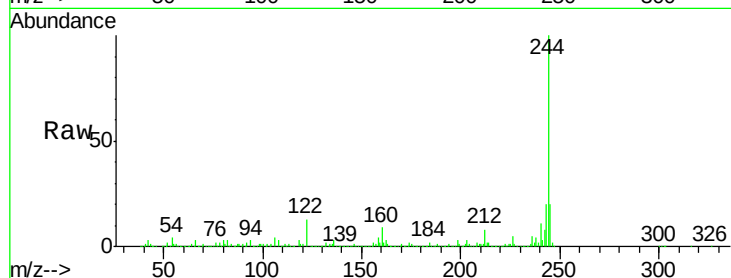
Acq: 12 May 2016 3:51

Instrument :

BNA_F

ClientSampleId :

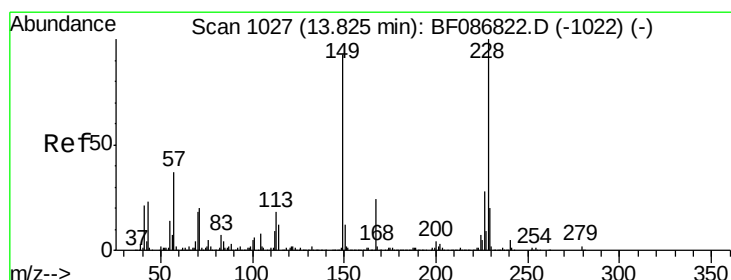
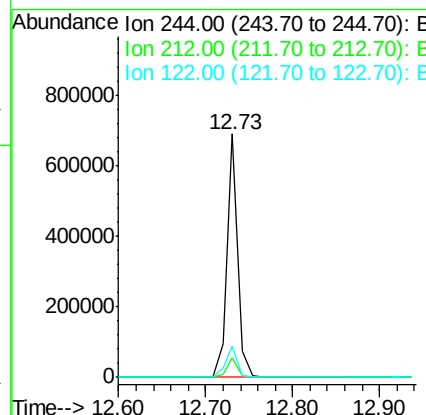
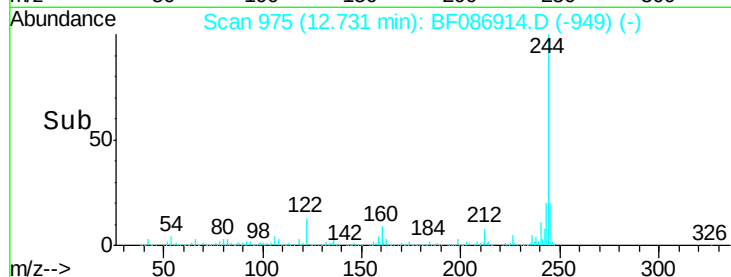
E-16(6.5-7)



Tgt Ion:	244	Resp:	597819
Ion Ratio	Lower	Upper	
244	100		
212	7.9	6.2	9.2
122	12.7	12.0	18.0

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#80

Benzo(a)anthracene

Concen: 41.64 ng

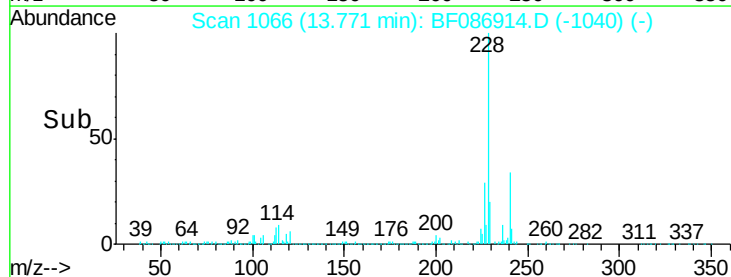
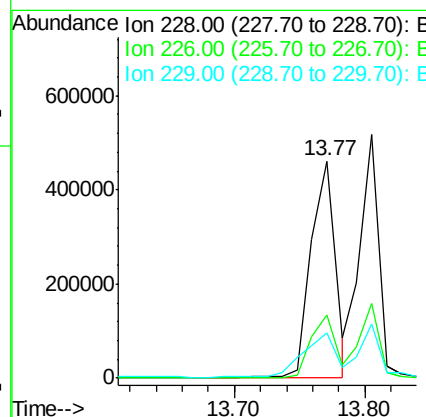
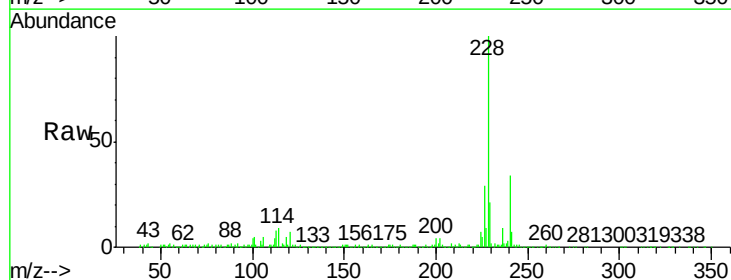
RT: 13.77 min Scan# 1066

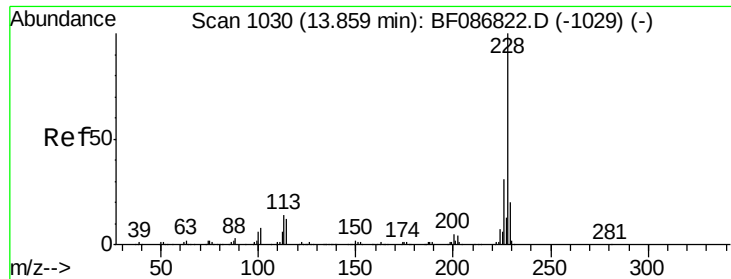
Delta R.T. 0.00 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Tgt Ion:	228	Resp:	592944
Ion Ratio	Lower	Upper	
228	100		
226	29.1	22.5	33.7
229	20.9	16.6	25.0





#82

Chrysene

Concen: 35.45 ng

RT: 13.81 min Scan# 1069

Delta R.T. 0.00 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Instrument :

BNA_F

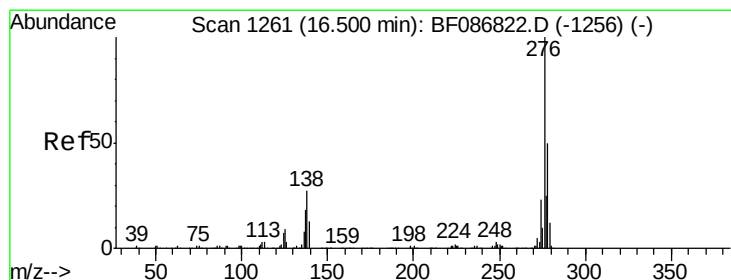
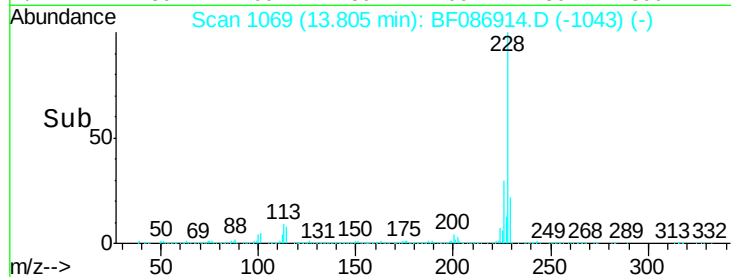
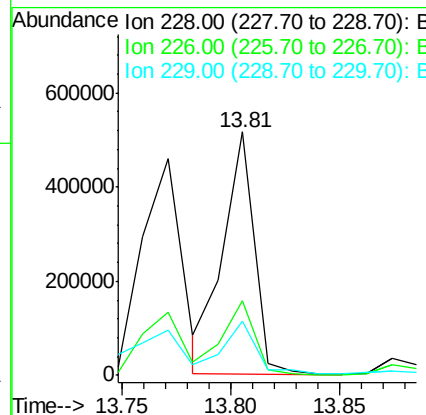
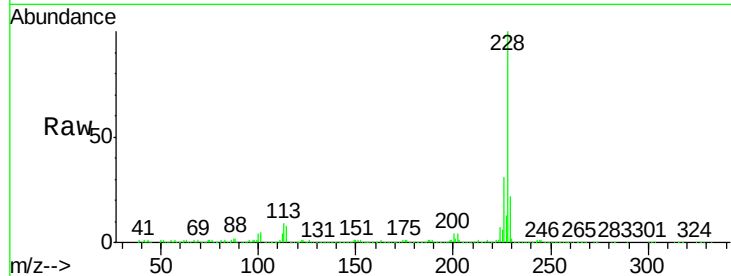
ClientSampleId :

E-16(6.5-7)

Tgt Ion:	228	Resp:	513514
Ion Ratio	Lower	Upper	
228	100		
226	30.7	24.4	36.6
229	22.4	15.8	23.8

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 14.48 ng

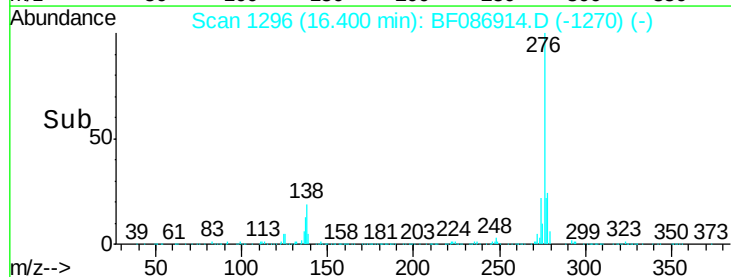
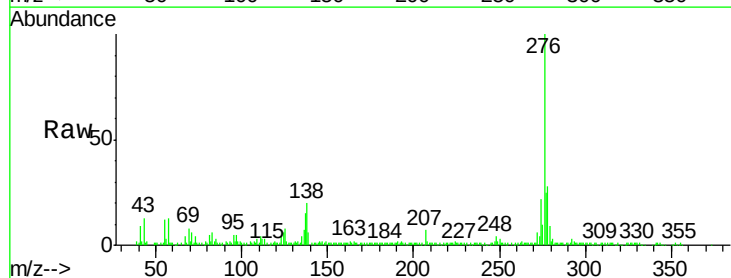
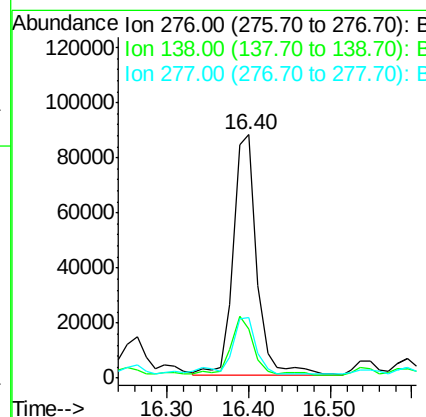
RT: 16.40 min Scan# 1296

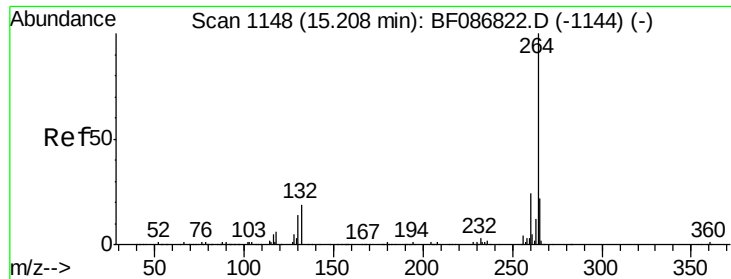
Delta R.T. 0.00 min

Lab File: BF086914.D

Acq: 12 May 2016 3:51

Tgt Ion:	276	Resp:	174467
Ion Ratio	Lower	Upper	
276	100		
138	24.9	25.6	38.4#
277	26.0	20.5	30.7





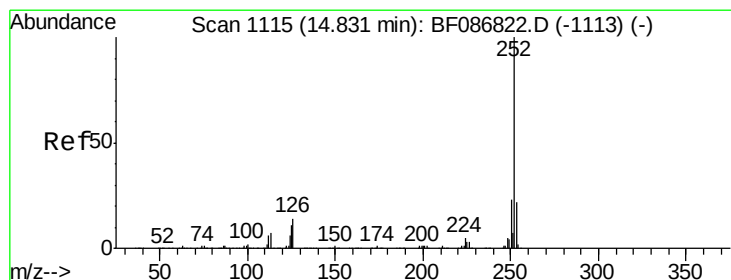
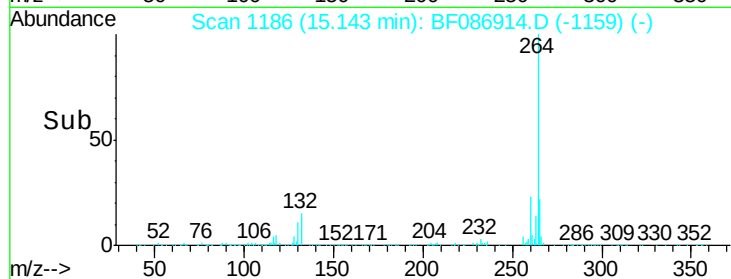
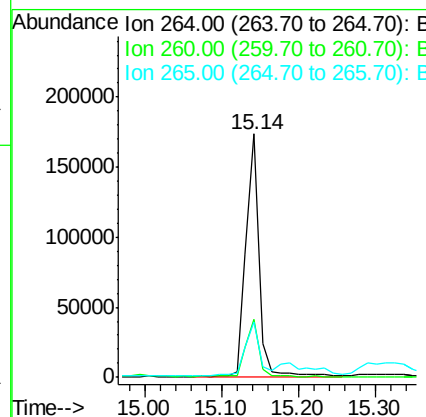
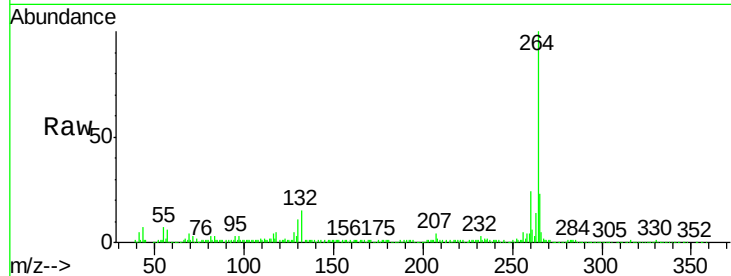
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.14 min Scan# 1186
Delta R.T. 0.01 min
Lab File: BF086914.D
Acq: 12 May 2016 3:51

Instrument :
BNA_F
ClientSampleId :
E-16(6.5-7)

Tgt Ion	Ratio	Resp Lower	Resp Upper
264	100		
260	23.7	19.5	29.3
265	22.8	17.3	25.9

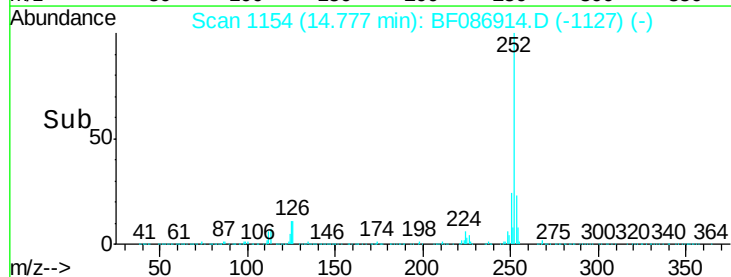
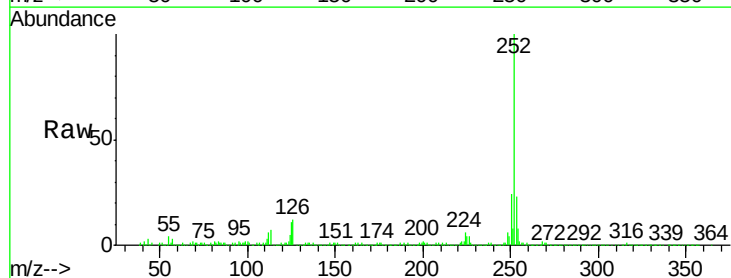
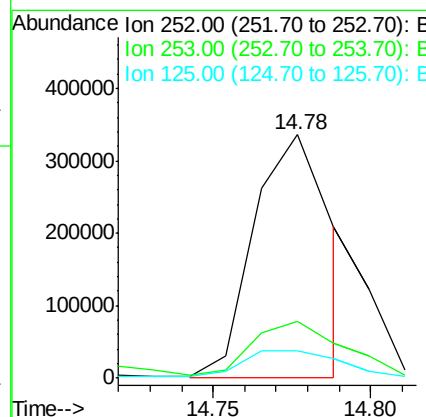
Manual Integrations
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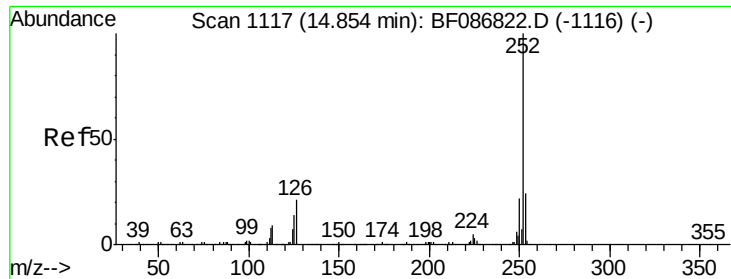
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#87
Benzo(b)fluoranthene
Concen: 42.41 ng m
RT: 14.78 min Scan# 1154
Delta R.T. 0.01 min
Lab File: BF086914.D
Acq: 12 May 2016 3:51

Tgt Ion	Ratio	Resp Lower	Resp Upper
252	100		
253	23.1	17.8	26.6
125	11.4	11.4	17.0





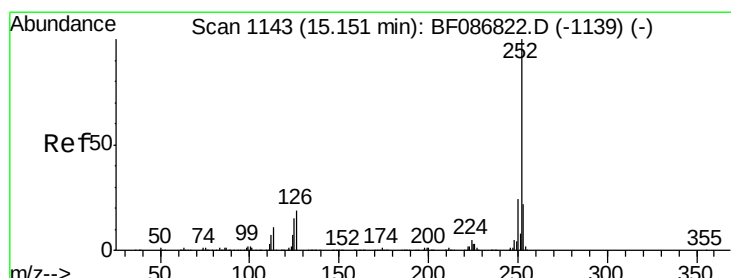
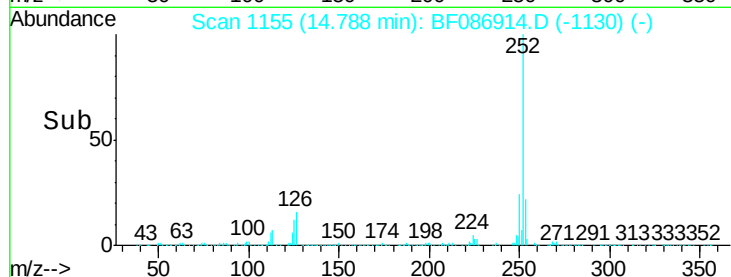
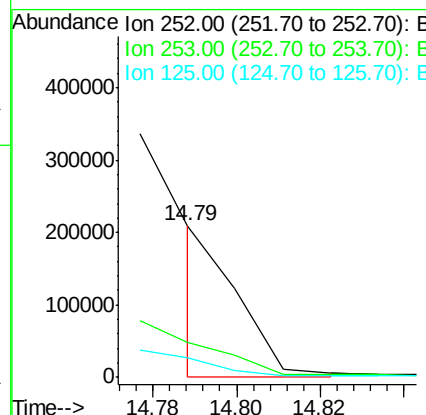
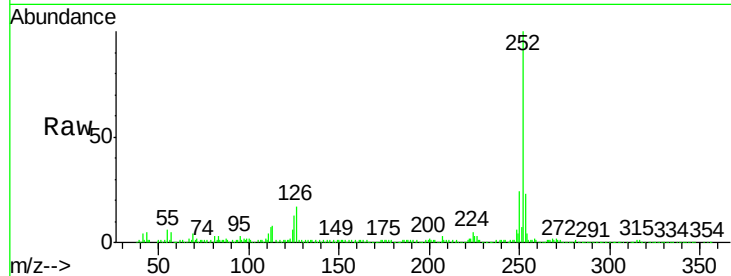
#88
Benzo(k)fluoranthene
Concen: 8.52 ng m
RT: 14.79 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BF086914.D
Acq: 12 May 2016 3:51

Instrument :
BNA_F
Client Sampled :
E-16(6.5-7)

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.1	17.8	26.6
125	12.6	9.1	13.7

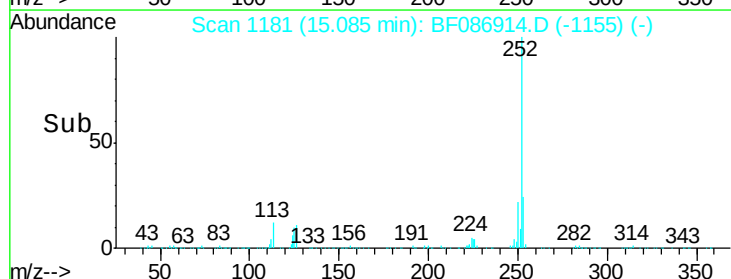
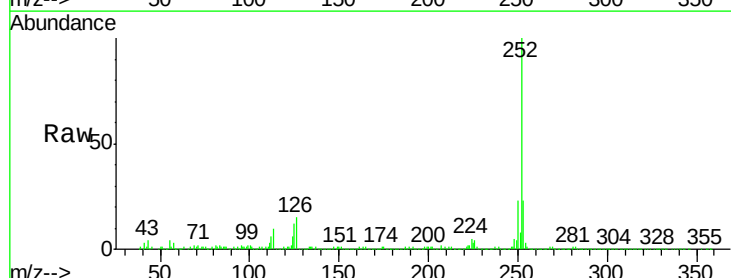
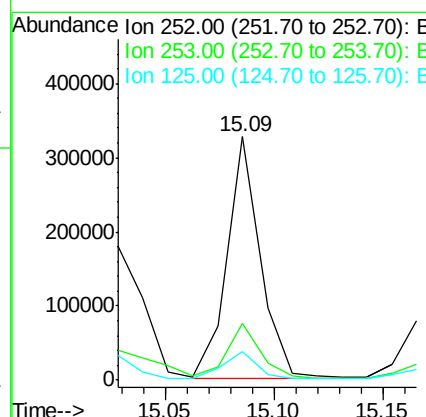
Manual Integrations
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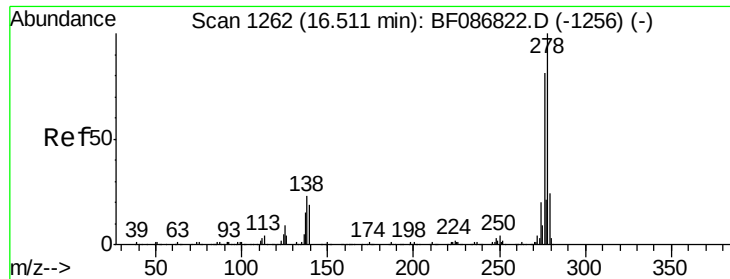
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#89
Benzo(a)pyrene
Concen: 29.59 ng
RT: 15.09 min Scan# 1181
Delta R.T. 0.00 min
Lab File: BF086914.D
Acq: 12 May 2016 3:51

Tgt Ion	Ratio	Resp Lower	Upper
252	100		
253	23.3	17.2	25.8
125	11.6	9.0	13.6





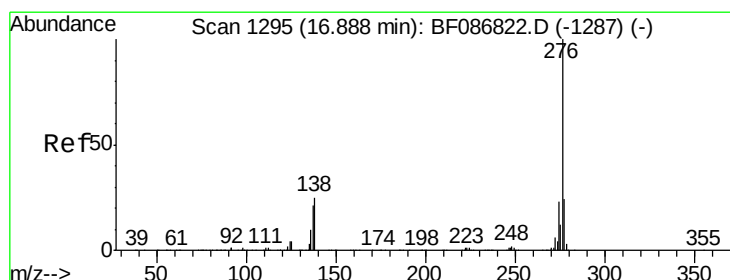
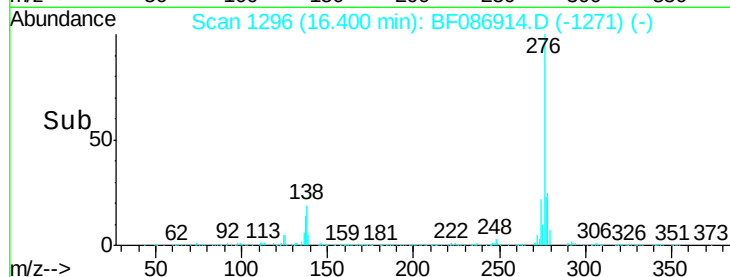
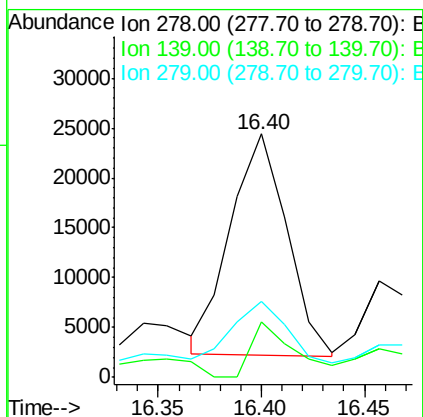
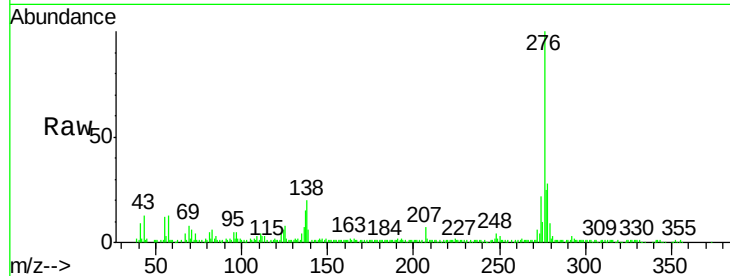
#90
Dibenzo(a,h)anthracene
Concen: 4.29 ng m
RT: 16.40 min Scan# 1296
Delta R.T. -0.01 min
Lab File: BF086914.D
Acq: 12 May 2016 3:51

Instrument :
BNA_F
ClientSampleId :
E-16(6.5-7)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	22.9	16.6	24.8
279	31.0	19.6	29.4

Manual Integrations
APPROVED

sohil
5/12/2016 7:00:24 PM



#91
Benzo(g,h,i)perylene
Concen: 15.15 ng
RT: 16.78 min Scan# 1329
Delta R.T. 0.01 min
Lab File: BF086914.D
Acq: 12 May 2016 3:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.6	29.4
138	20.9	23.6	35.4

