

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
 Data File : BF086912.D
 Acq On : 12 May 2016 2:53
 Operator : UM/SJ
 Sample : H2965-02
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-15(8.5-9)

Manual Integrations
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Quant Time: May 12 06:48:13 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	135255	20.00	ng	-0.01
21) Naphthalene-d8	7.92	136	501904	20.00	ng	0.00
38) Acenaphthene-d10	9.67	164	193169	20.00	ng	-0.01
63) Phenanthrene-d10	11.14	188	312123	20.00	ng	-0.01
75) Chrysene-d12	13.78	240	286949	20.00	ng	0.00
86) Perylene-d12	15.14	264	231335	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	841259	105.33	ng	0.01
7) Phenol-d6	6.30	99	959874	89.93	ng	-0.01
23) Nitrobenzene-d5	7.21	82	708109	70.84	ng	-0.01
41) 2,4,6-Tribromophenol	10.46	330	175292	85.72	ng	-0.01
44) 2-Fluorobiphenyl	9.00	172	835047	72.65	ng	0.00
78) Terphenyl-d14	12.73	244	613114	45.33	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.94	128	71116	2.83	ng	98
37) 2-Methylnaphthalene	8.63	142	34704m	2.36	ng	
49) Dimethylphthalate	9.40	163	83214	5.65	ng	99
51) Acenaphthene	9.70	154	75186	6.83	ng	96
54) Dibenzofuran	9.87	168	66458	4.70	ng	98
57) Fluorene	10.22	166	86617	7.18	ng	98
70) Phenanthrene	11.18	178	864703	51.91	ng	99
71) Anthracene	11.22	178	311180	18.27	ng	98
72) Carbazole	11.38	167	57122	3.90	ng	# 96
74) Fluoranthene	12.35	202	1405825	82.06	ng	99
77) Pyrene	12.58	202	1270287	57.82	ng	99
80) Benzo(a)anthracene	13.77	228	791241	49.12	ng	99
82) Chrysene	13.81	228	463335m	28.28	ng	
85) Indeno(1,2,3-cd)pyrene	16.40	276	239035	17.53	ng	# 89
87) Benzo(b)fluoranthene	14.78	252	627387m	41.73	ng	
88) Benzo(k)fluoranthene	14.79	252	182539m	14.83	ng	
89) Benzo(a)pyrene	15.10	252	442394	34.11	ng	97
90) Dibenzo(a,h)anthracene	16.41	278	72043	6.59	ng	# 89
91) Benzo(g,h,i)perylene	16.78	276	223413	20.12	ng	95

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

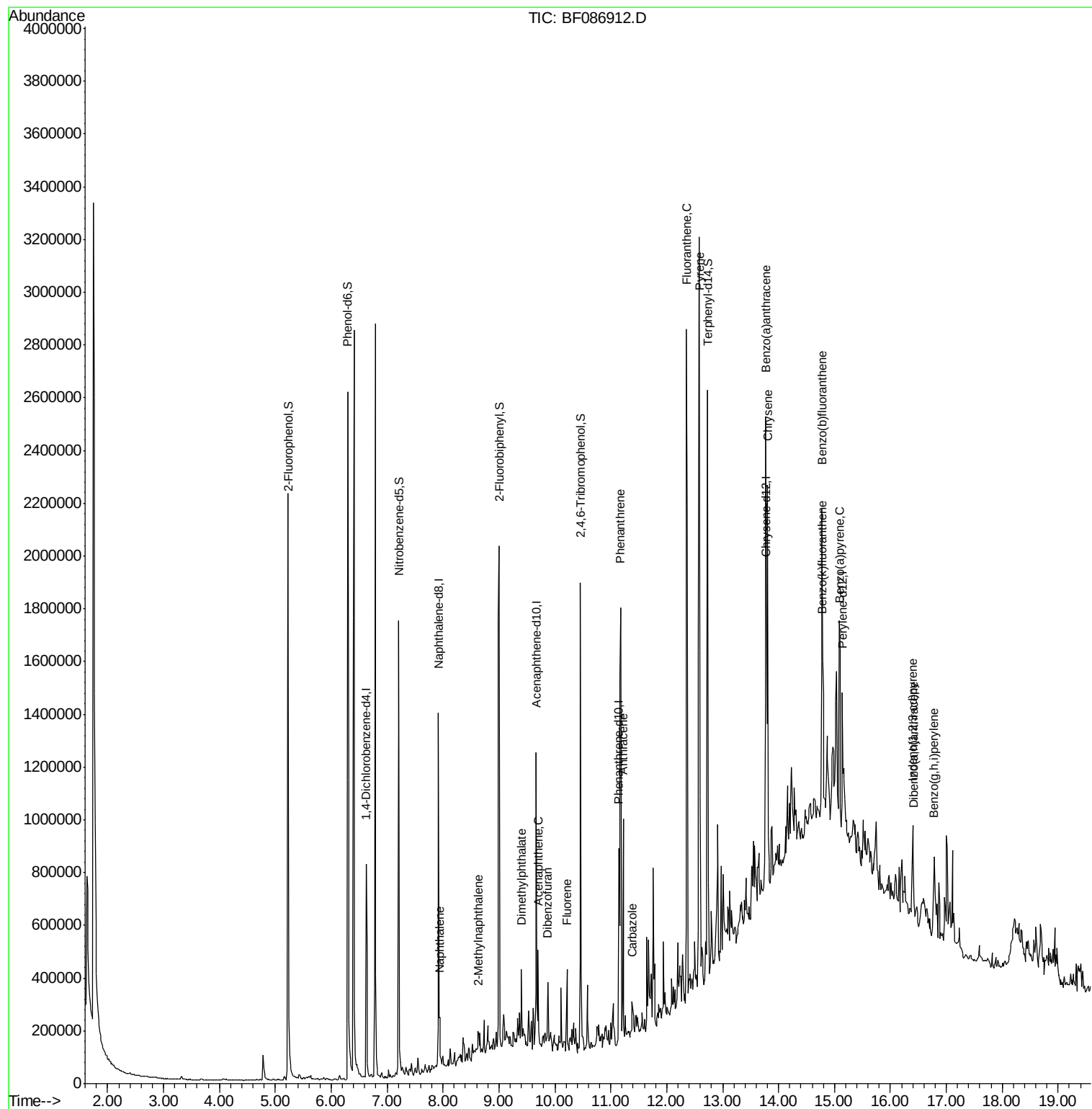
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
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ALS Vial : 23 Sample Multiplier: 1

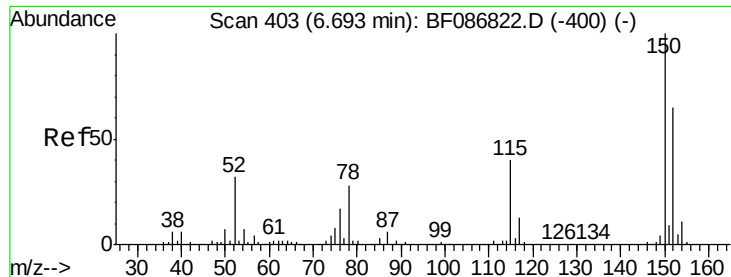
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E-15(8.5-9)

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

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 441

Delta R.T. -0.01 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Instrument :

BNA_F

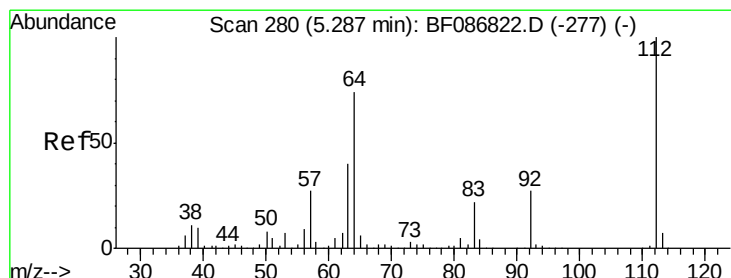
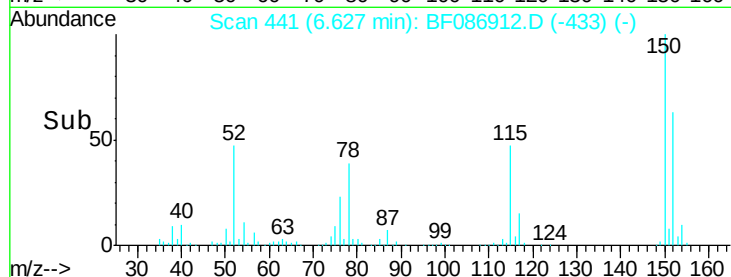
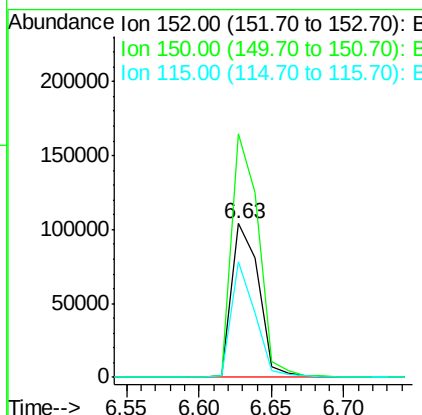
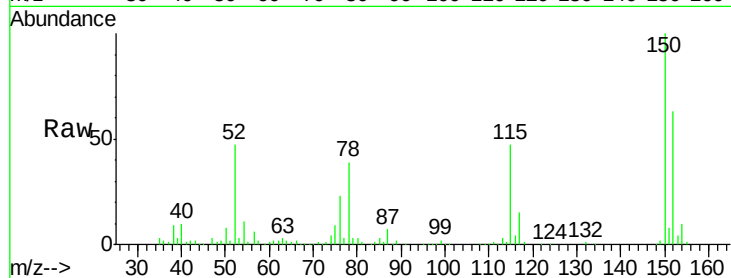
ClientSampled :

E-15(8.5-9)

Tgt	Ion:152	Resp:	135255
Ion	Ratio	Lower	Upper
152	100		
150	158.4	125.8	188.6
115	74.9	51.5	77.3

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#5

2-Fluorophenol

Concen: 105.33 ng

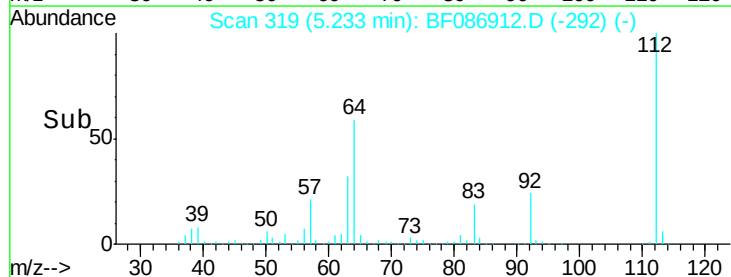
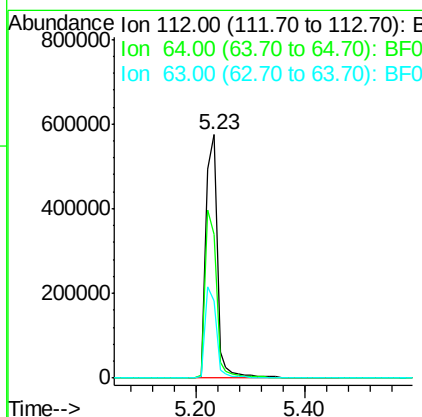
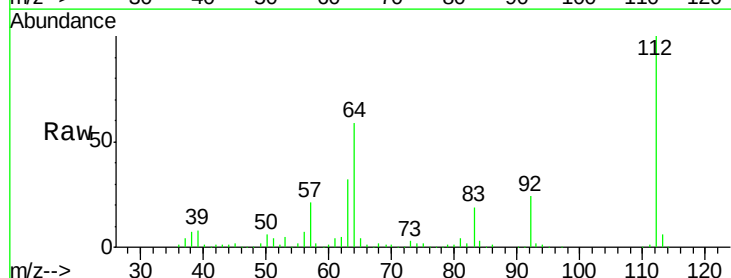
RT: 5.23 min Scan# 319

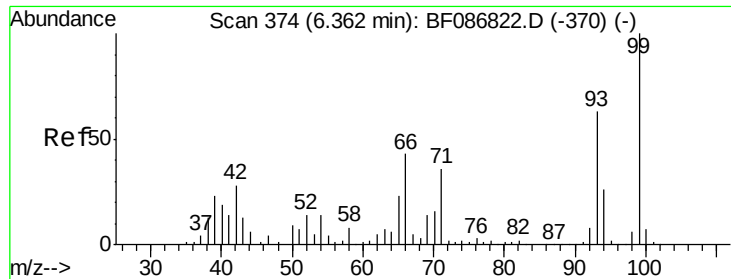
Delta R.T. 0.01 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Tgt	Ion:112	Resp:	841259
Ion	Ratio	Lower	Upper
112	100		
64	59.3	52.1	78.1
63	31.9	25.7	38.5





#7

Phenol-d6

Concen: 89.93 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.01 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Instrument :

BNA_F

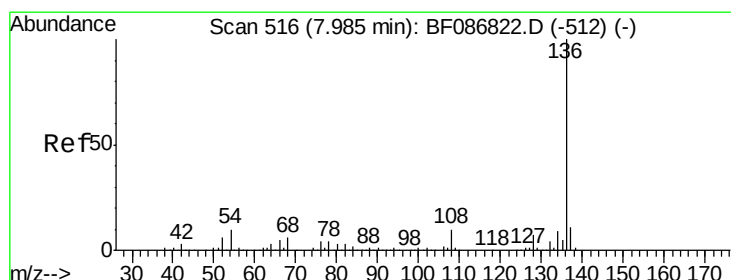
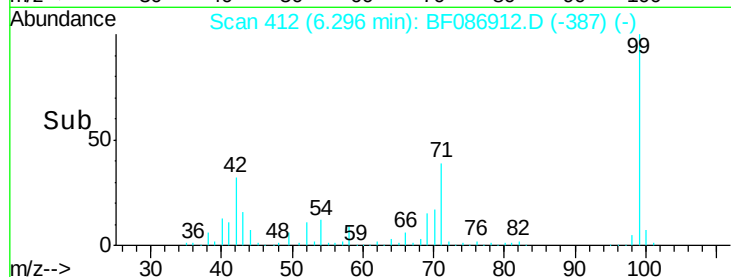
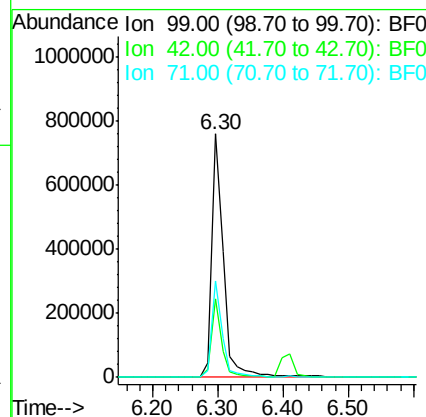
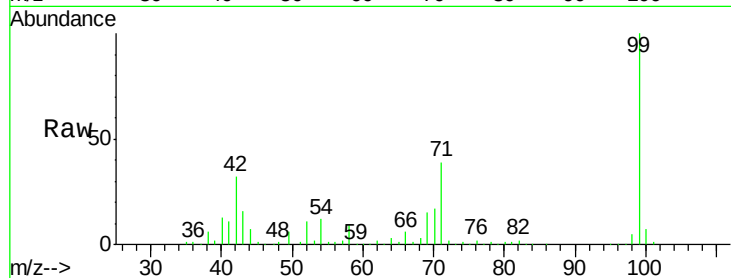
ClientSampleId :

E-15(8.5-9)

Tgt Ion:	99	Resp:	959874
Ion Ratio	Lower	Upper	
99	100		
42	32.3	13.6	20.4#
71	39.4	24.6	36.8#

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#21

Naphthalene-d8

Concen: 20.00 ng

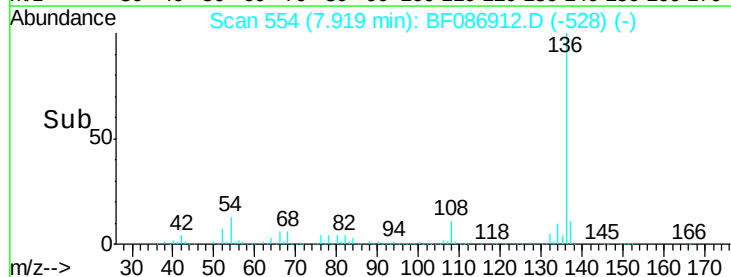
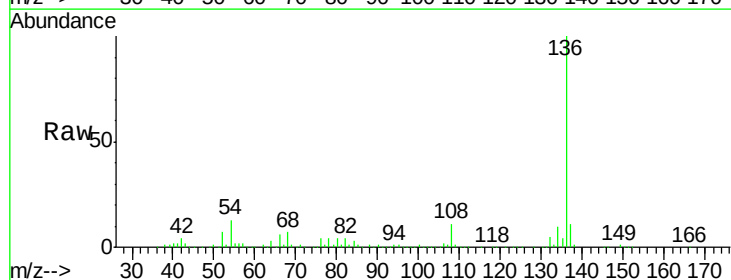
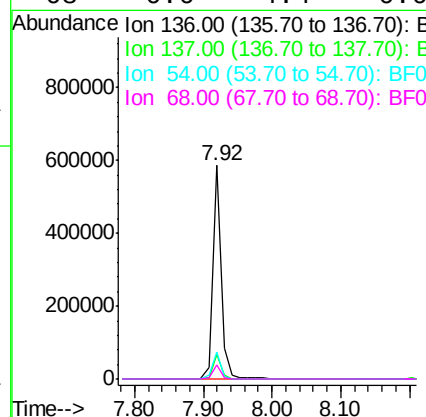
RT: 7.92 min Scan# 554

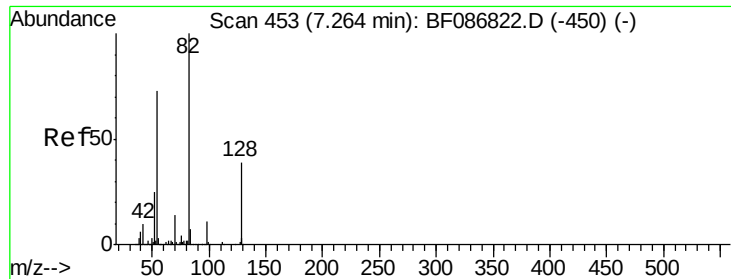
Delta R.T. -0.00 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Tgt Ion:	136	Resp:	501904
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.8	13.2
54	12.7	5.0	7.4#
68	6.6	4.4	6.6





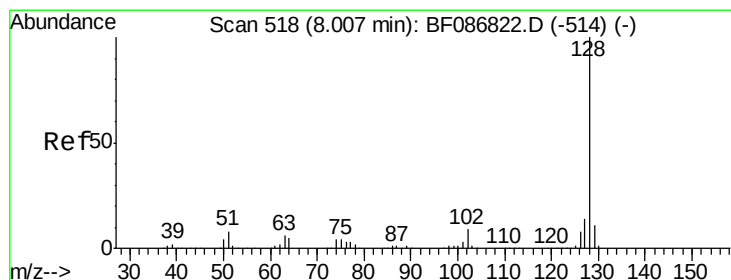
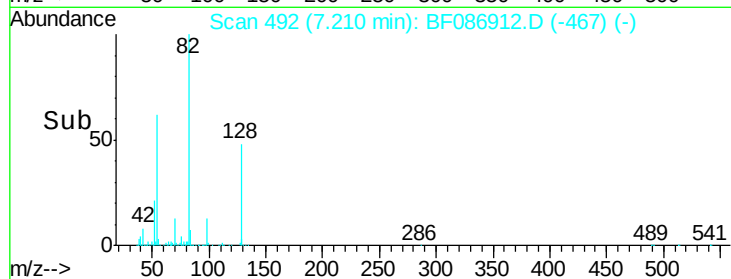
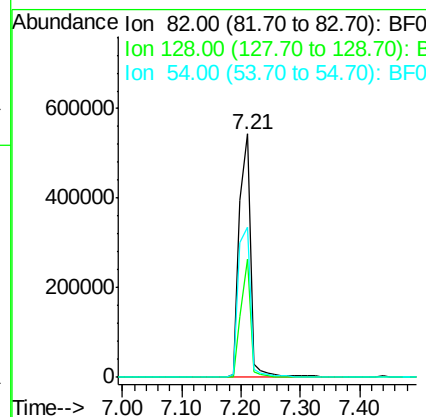
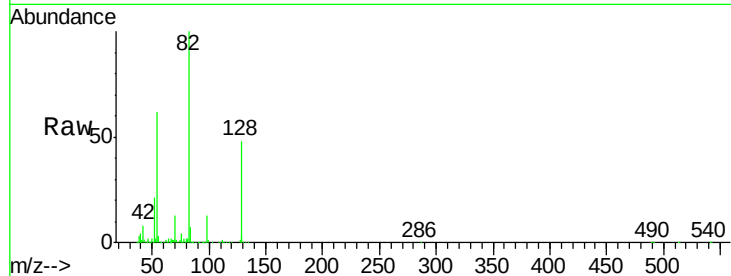
#23
 Nitrobenzene-d5
 Concen: 70.84 ng
 RT: 7.21 min Scan# 492
 Delta R.T. -0.01 min
 Lab File: BF086912.D
 Acq: 12 May 2016 2:53

Instrument :
 BNA_F
 ClientSampleId :
 E-15(8.5-9)

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	48.5	40.6	61.0
54	61.6	38.1	57.1#

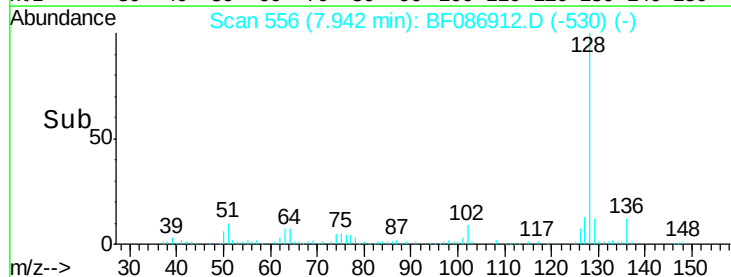
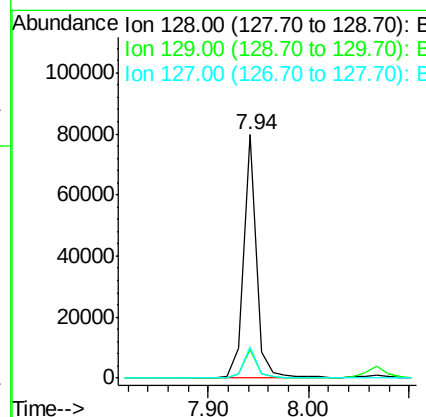
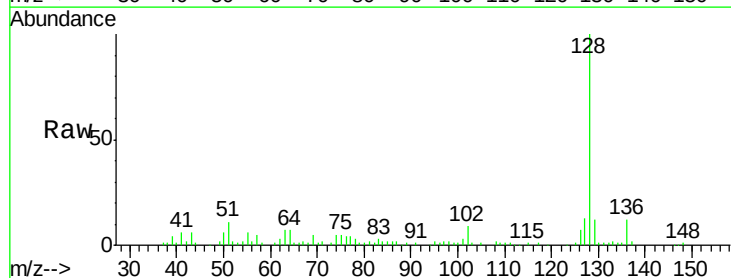
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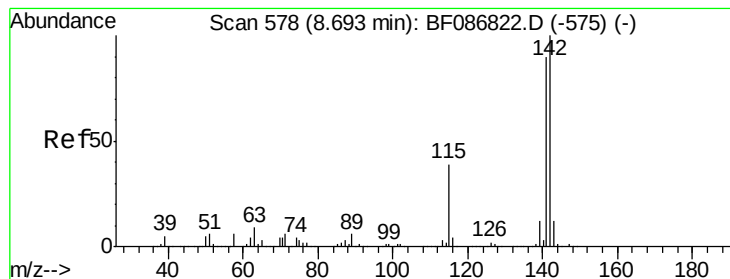
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#31
 Naphthalene
 Concen: 2.83 ng
 RT: 7.94 min Scan# 556
 Delta R.T. -0.00 min
 Lab File: BF086912.D
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Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	11.6	8.6	13.0
127	12.8	10.8	16.2





#37

2-Methylnaphthalene

Concen: 2.36 ng m

RT: 8.63 min Scan# 616

Delta R.T. -0.01 min

Lab File: BF086912.D

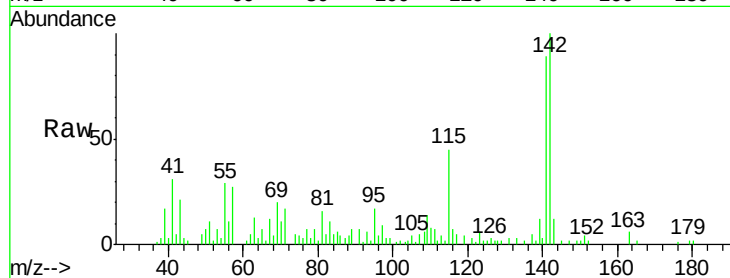
Acq: 12 May 2016 2:53

Instrument :

BNA_F

ClientSampleId :

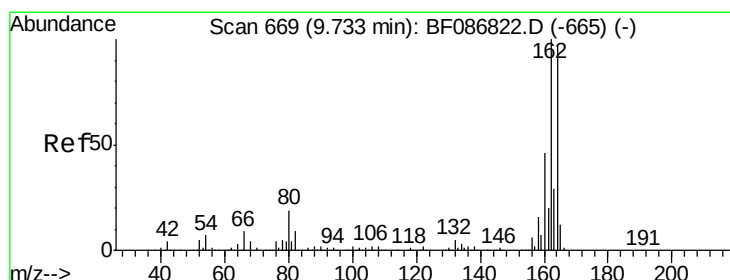
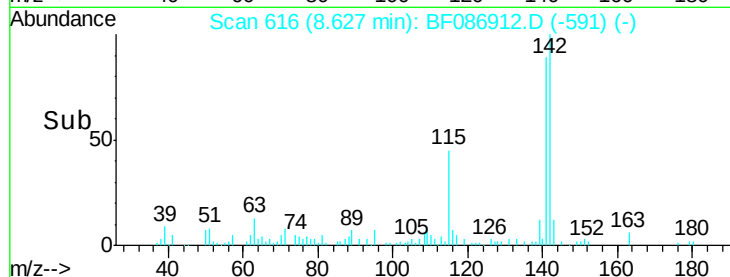
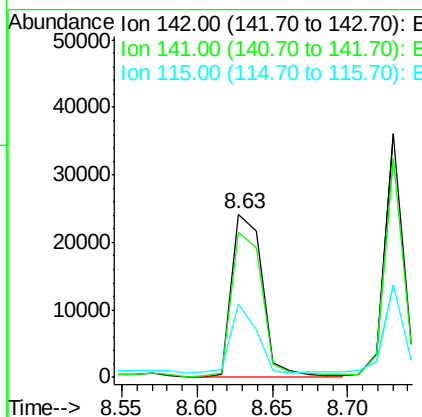
E-15(8.5-9)



Tgt Ion:	142	Resp:	34704
Ion Ratio	Lower	Upper	
142	100		
141	88.6	71.0	106.6
115	44.9	26.6	39.8#

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#38

Acenaphthene-d10

Concen: 20.00 ng

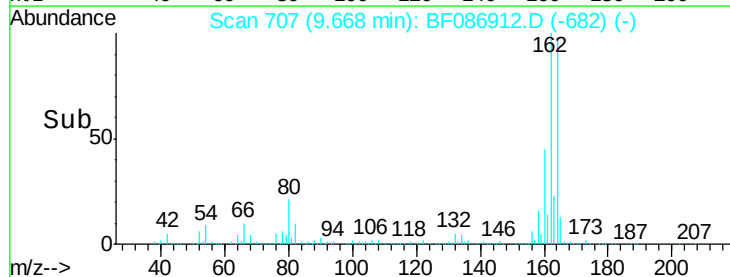
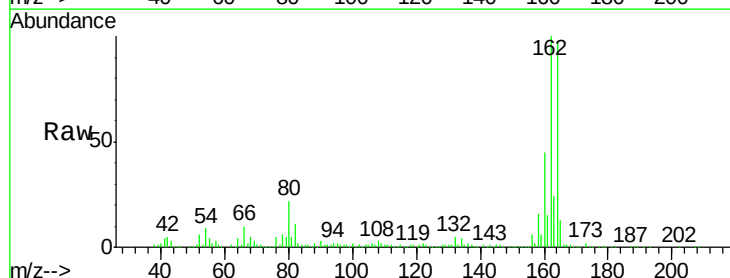
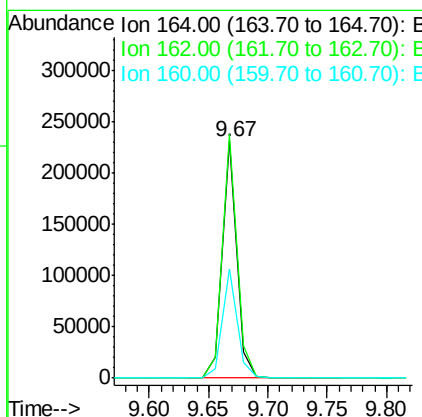
RT: 9.67 min Scan# 707

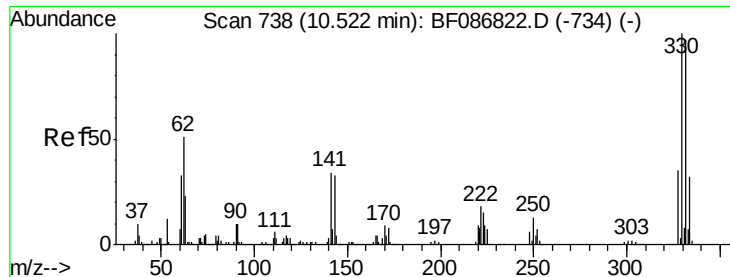
Delta R.T. -0.01 min

Lab File: BF086912.D

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Tgt Ion:	164	Resp:	193169
Ion Ratio	Lower	Upper	
164	100		
162	102.9	82.8	124.2
160	46.0	36.9	55.3





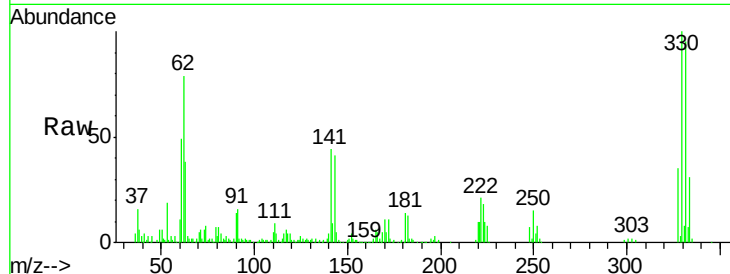
#41
 2,4,6-Tribromophenol
 Concen: 85.72 ng
 RT: 10.46 min Scan# 776
 Delta R.T. -0.01 min
 Lab File: BF086912.D
 Acq: 12 May 2016 2:53

Instrument :
 BNA_F
 ClientSampled :
 E-15(8.5-9)

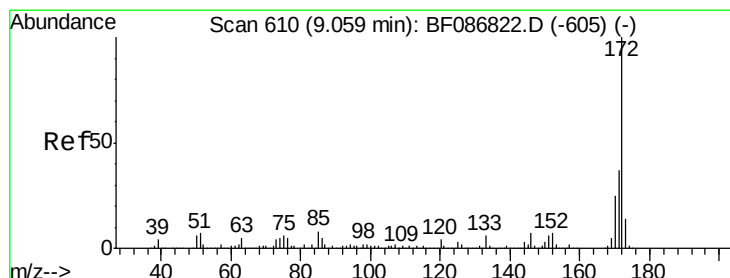
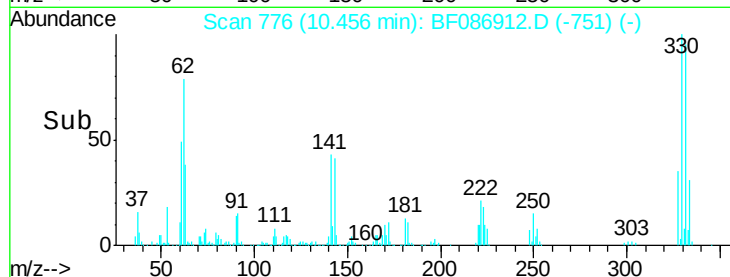
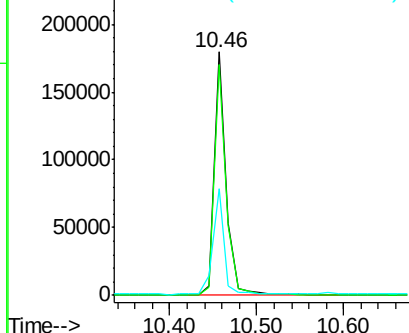
Tgt Ion	Ratio	Resp	Lower	Upper
330	100	175292		
332	95.9	79.0	118.4	
141	41.3	31.2	46.8	

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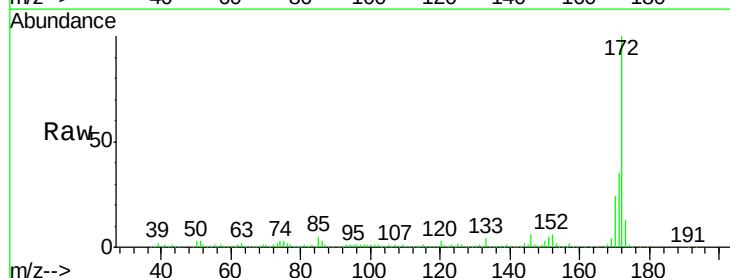


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

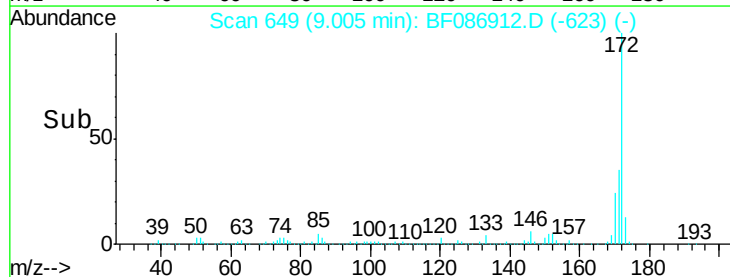
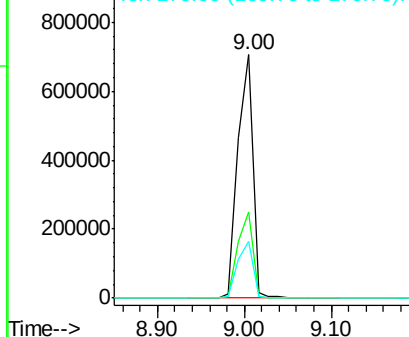


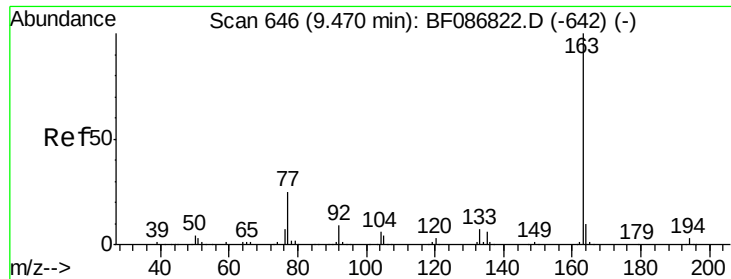
#44
 2-Fluorobiphenyl
 Concen: 72.65 ng
 RT: 9.00 min Scan# 649
 Delta R.T. -0.00 min
 Lab File: BF086912.D
 Acq: 12 May 2016 2:53

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	835047		
171	35.3	29.0	43.6	
170	23.6	19.8	29.8	



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





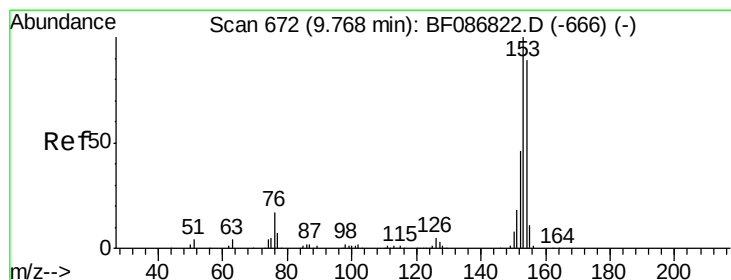
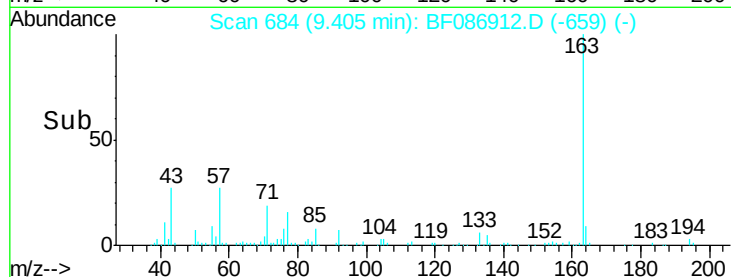
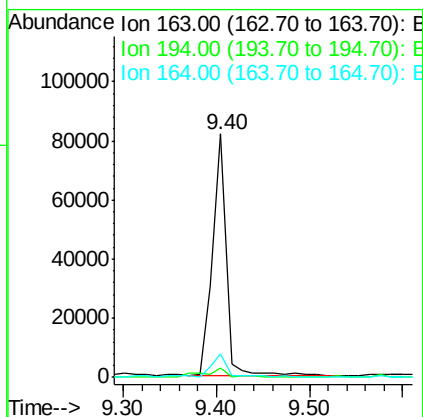
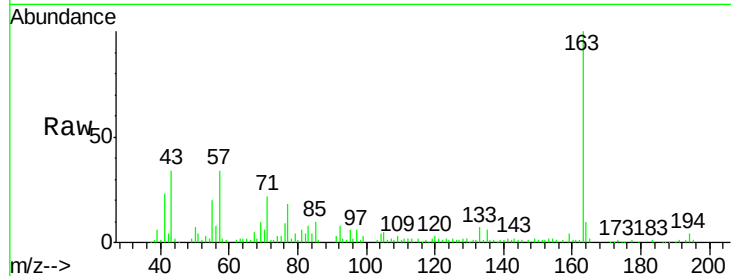
#49
Dimethylphthalate
Concen: 5.65 ng
RT: 9.40 min Scan# 684
Delta R.T. -0.01 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Instrument :
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Tgt Ion	Ratio	Resp	Lower	Upper
163	100	83214		
194	3.9	2.6	4.0	
164	9.8	8.2	12.4	

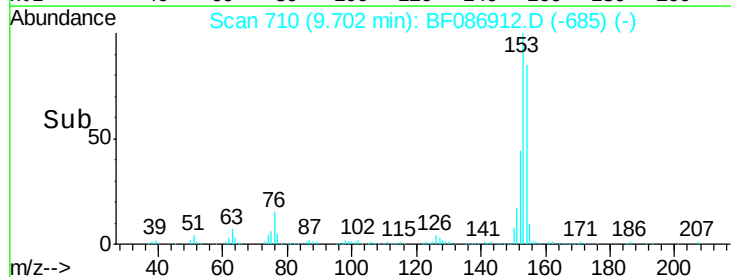
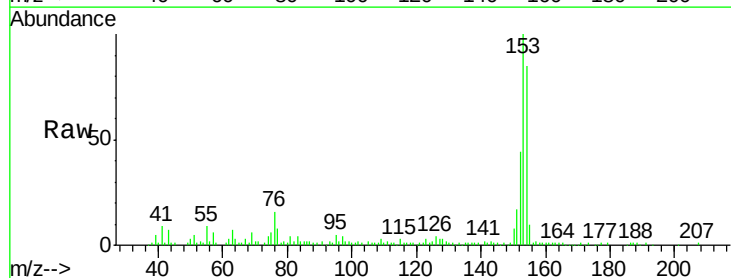
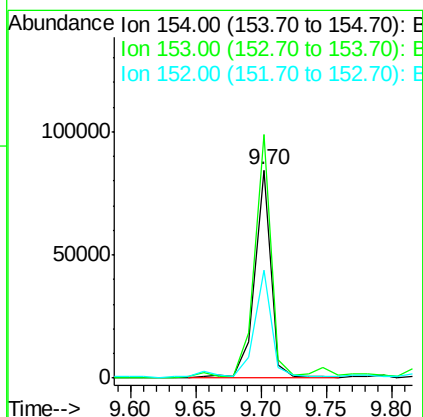
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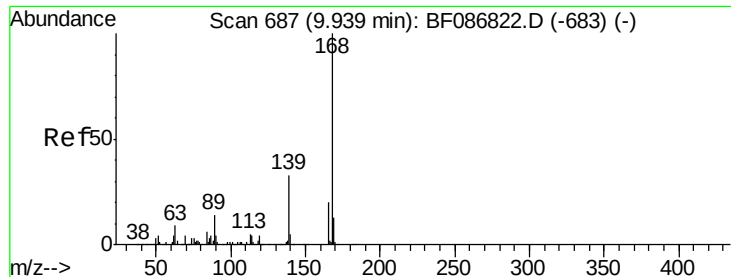
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#51
Acenaphthene
Concen: 6.83 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.01 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	75186		
153	117.1	89.8	134.6	
152	52.1	43.4	65.0	





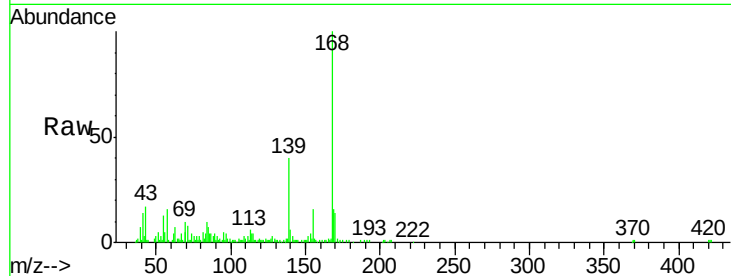
#54
Dibenzenofuran
Concen: 4.70 ng
RT: 9.87 min Scan# 725
Delta R.T. -0.01 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

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E-15(8.5-9)

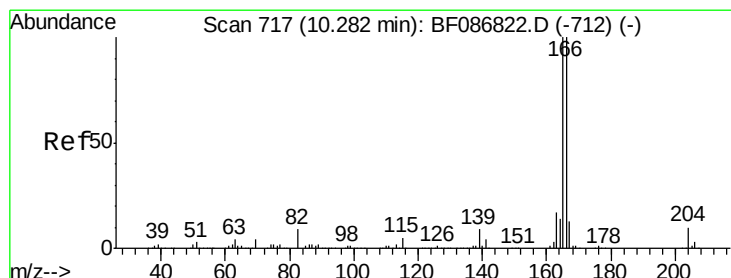
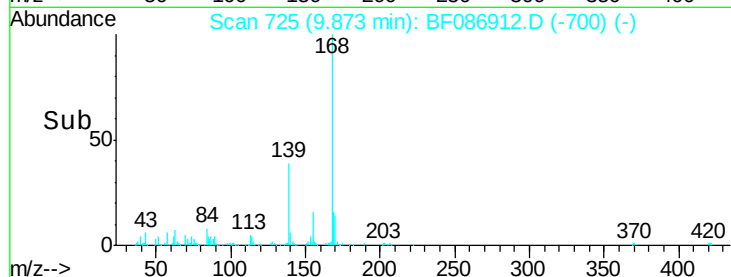
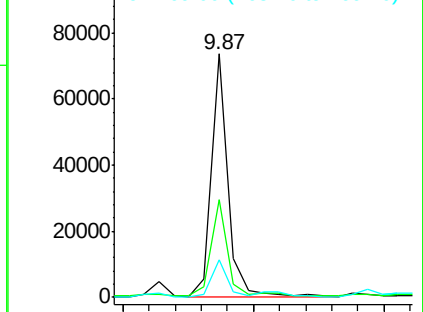
Tgt Ion	Ratio	Resp Lower	Resp Upper
168	100		
139	40.0	31.4	47.0
169	15.7	10.7	16.1

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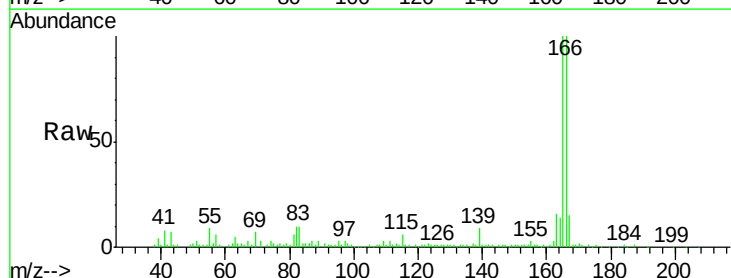


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

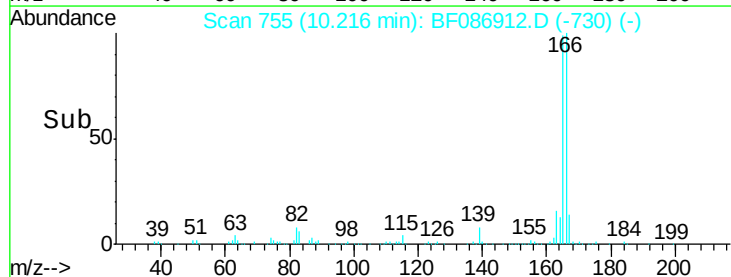
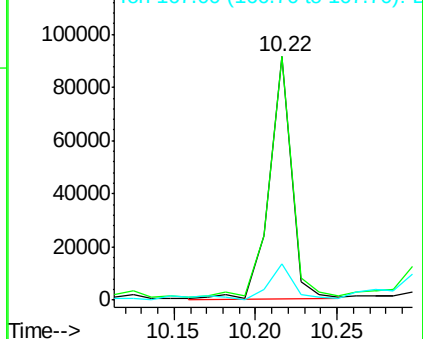


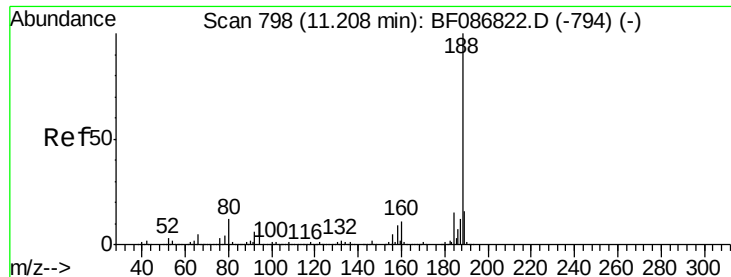
#57
Fluorene
Concen: 7.18 ng
RT: 10.22 min Scan# 755
Delta R.T. -0.01 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Tgt Ion	Ratio	Resp Lower	Resp Upper
166	100		
165	99.9	79.0	118.6
167	14.9	10.6	15.8



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E





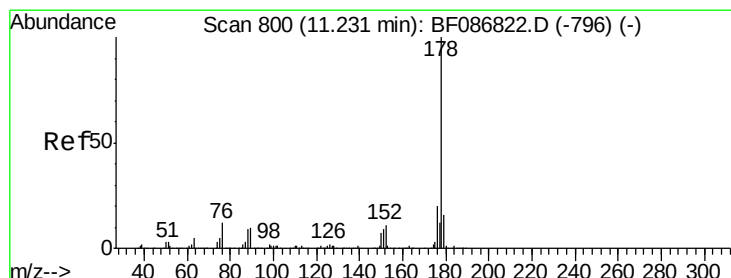
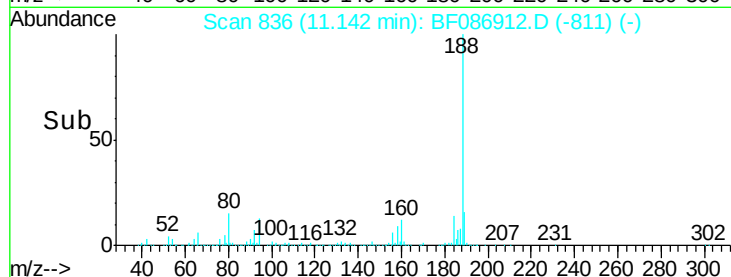
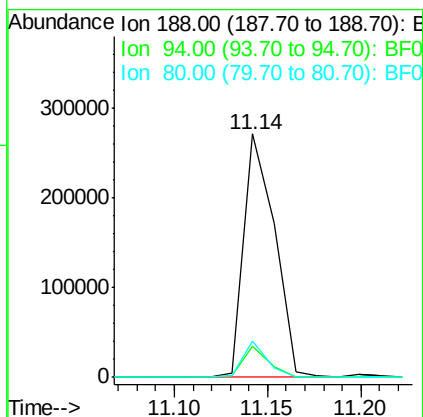
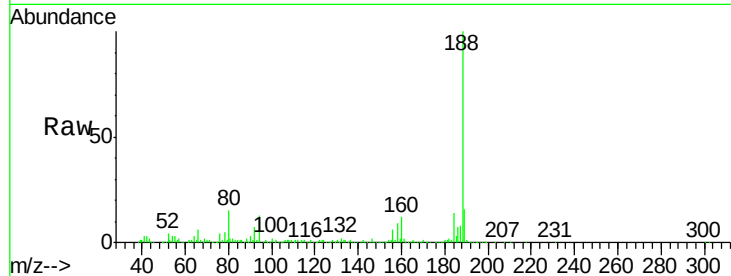
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.14 min Scan# 836
Delta R.T. -0.01 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Instrument :
BNA_F
ClientSampleId :
E-15(8.5-9)

Tgt Ion	Ratio	Resp Lower	Resp Upper
188	100		
94	12.9	6.8	10.2#
80	15.0	7.1	10.7#

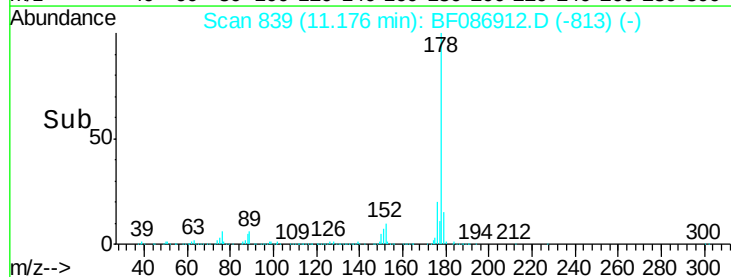
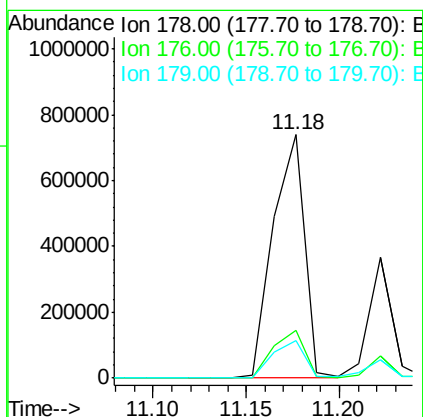
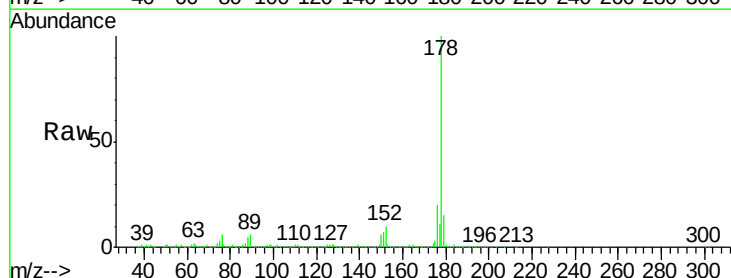
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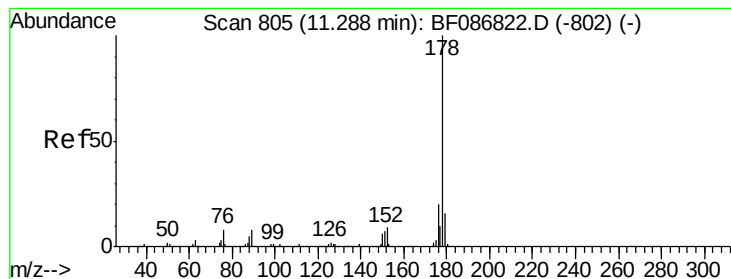
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#70
Phenanthrene
Concen: 51.91 ng
RT: 11.18 min Scan# 839
Delta R.T. -0.00 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Tgt Ion	Ratio	Resp Lower	Resp Upper
178	100		
176	19.7	16.0	24.0
179	15.5	12.6	18.8





#71

Anthracene

Concen: 18.27 ng

RT: 11.22 min Scan# 843

Delta R.T. -0.01 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Instrument :

BNA_F

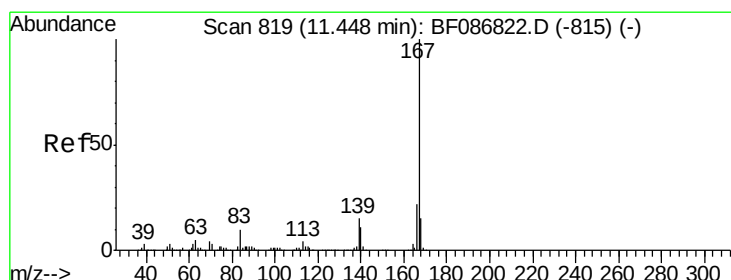
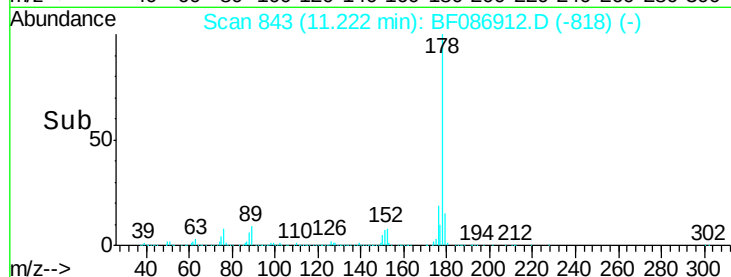
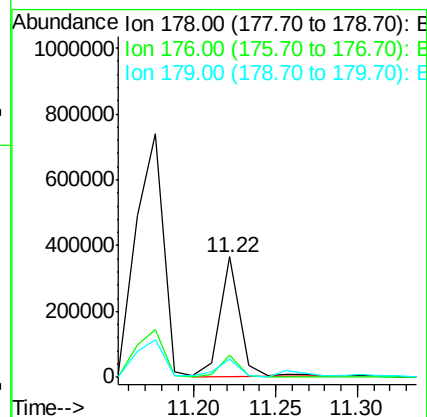
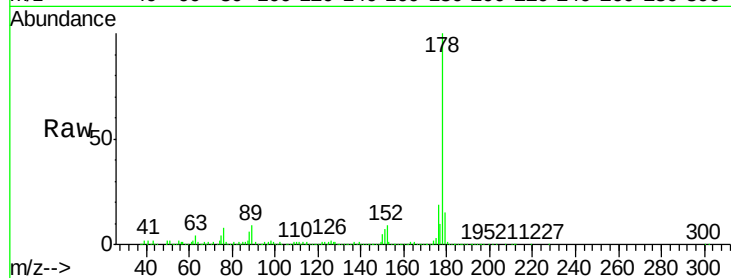
ClientSampled :

E-15(8.5-9)

Tgt Ion:	178	Resp:	311180
Ion Ratio	Lower	Upper	
178	100		
176	18.6	15.6	23.4
179	15.5	12.7	19.1

Manual Integrations
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#72

Carbazole

Concen: 3.90 ng

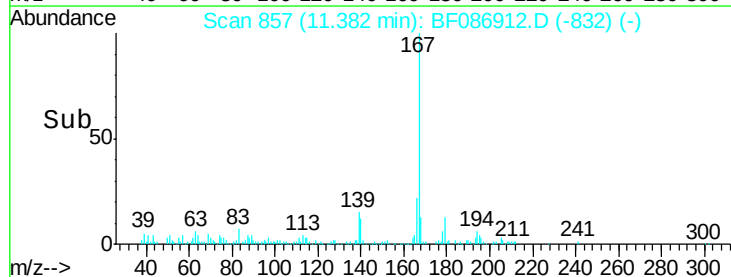
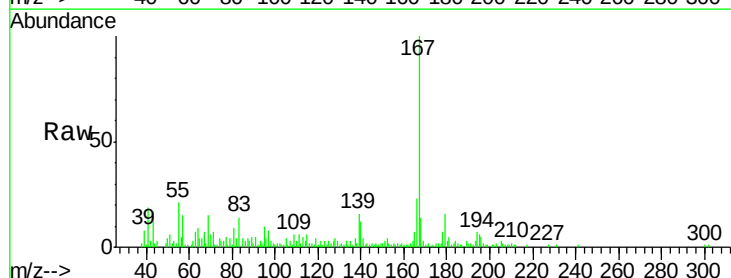
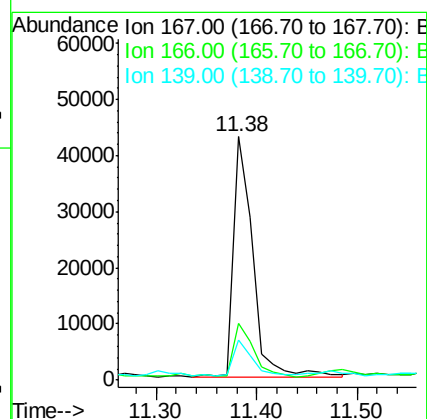
RT: 11.38 min Scan# 857

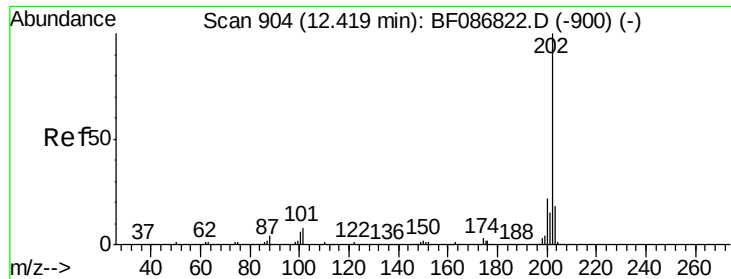
Delta R.T. -0.01 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Tgt Ion:	167	Resp:	57122
Ion Ratio	Lower	Upper	
167	100		
166	23.0	17.7	26.5
139	16.4	10.8	16.2#





#74

Fluoranthene

Concen: 82.06 ng

RT: 12.35 min Scan# 942

Delta R.T. -0.00 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Instrument :

BNA_F

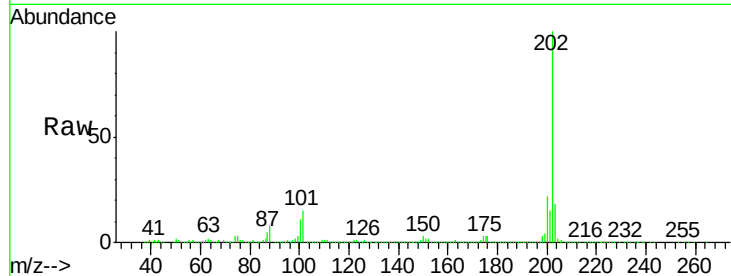
ClientSampled :

E-15(8.5-9)

Tgt Ion:	202	Resp:	1405825
Ion Ratio	Lower	Upper	
202	100		
101	14.7	0.0	35.4
203	18.4	0.0	38.1

Manual Integrations
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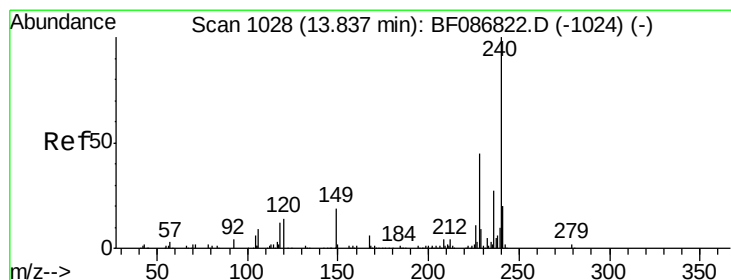
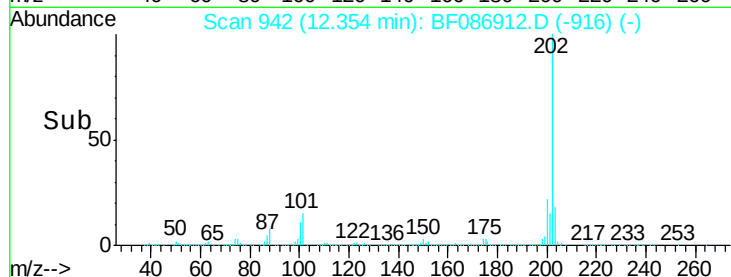
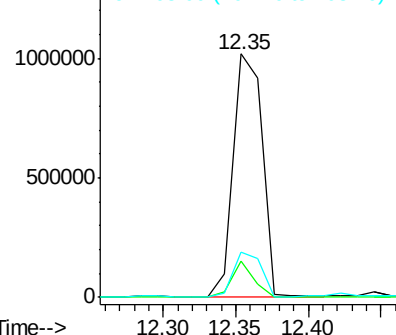
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Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.78 min Scan# 1067

Delta R.T. -0.00 min

Lab File: BF086912.D

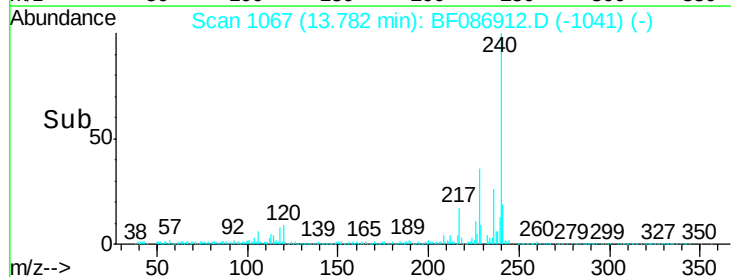
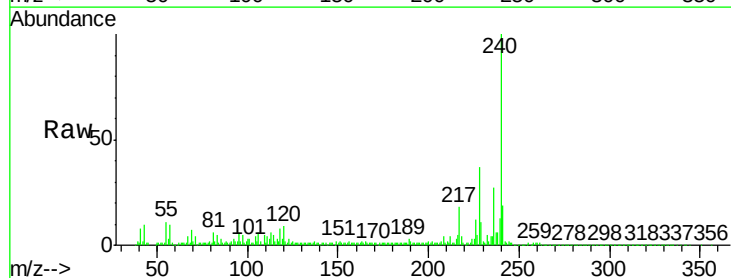
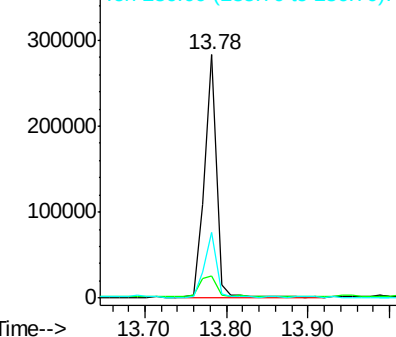
Acq: 12 May 2016 2:53

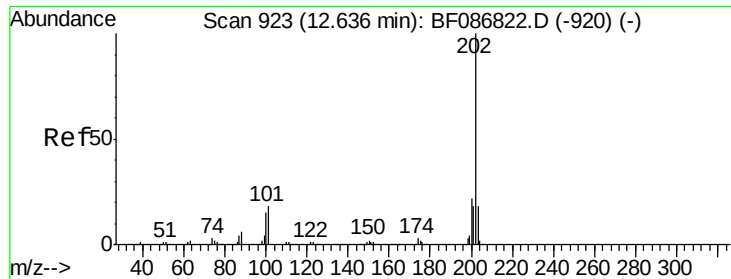
Tgt Ion:	240	Resp:	286949
Ion Ratio	Lower	Upper	
240	100		
120	9.2	11.2	16.8#
236	26.8	21.2	31.8

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: 57.82 ng

RT: 12.58 min Scan# 962

Delta R.T. -0.00 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Instrument :

BNA_F

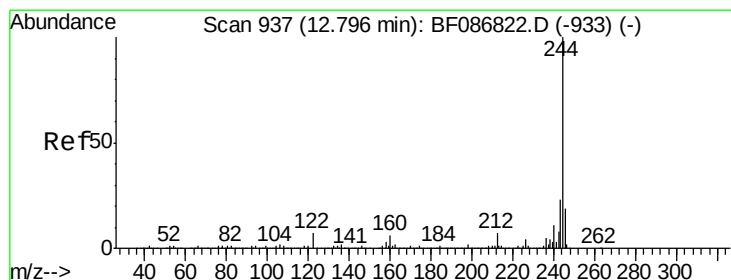
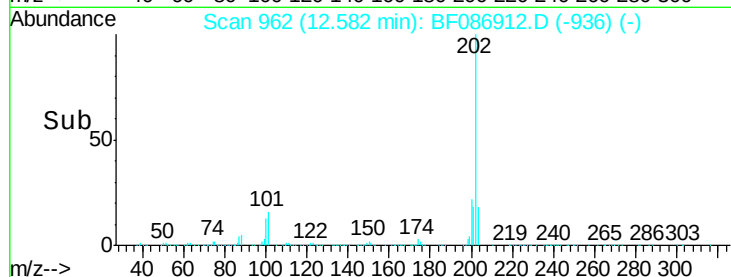
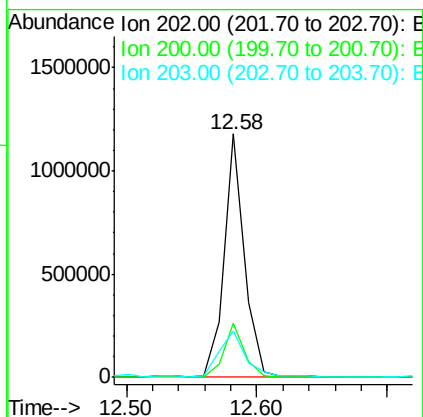
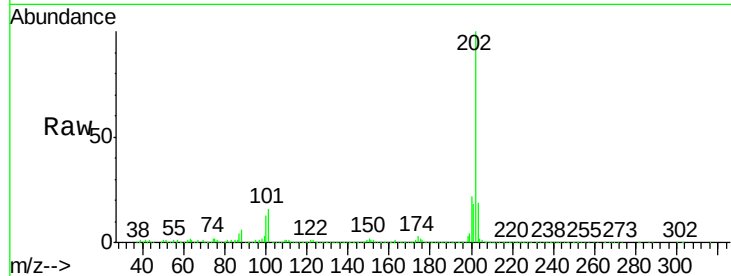
ClientSampleId :

E-15(8.5-9)

Tgt Ion:	202	Resp:	1270287
Ion	Ratio	Lower	Upper
202	100		
200	22.2	17.7	26.5
203	18.9	14.2	21.4

Manual Integrations
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#78

Terphenyl-d14

Concen: 45.33 ng

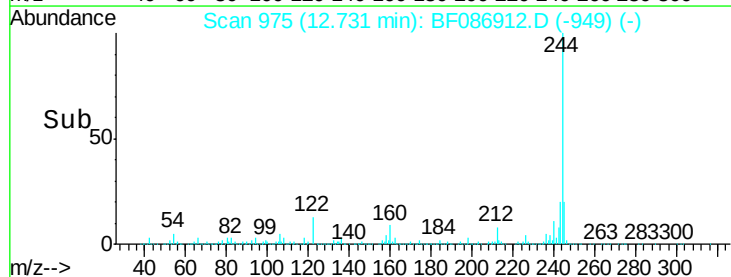
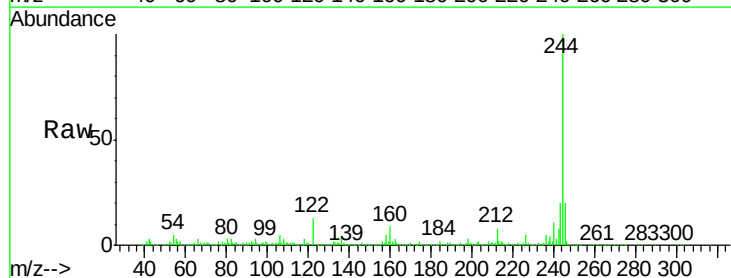
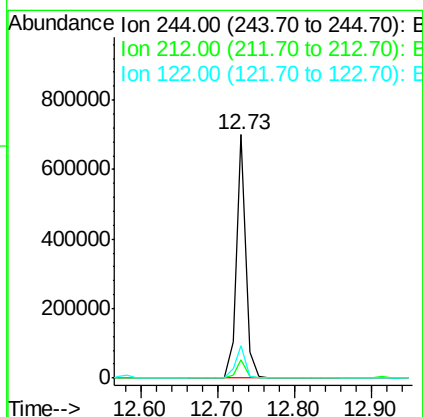
RT: 12.73 min Scan# 975

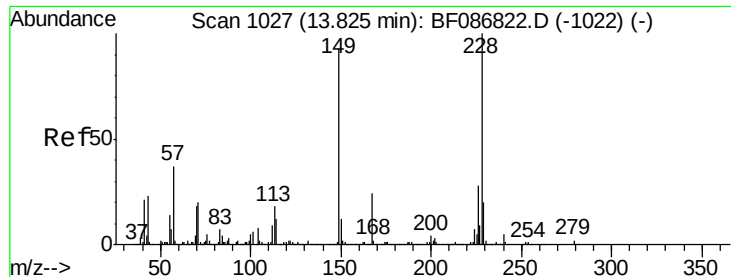
Delta R.T. -0.00 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Tgt Ion:	244	Resp:	613114
Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.2	9.2
122	13.3	12.0	18.0





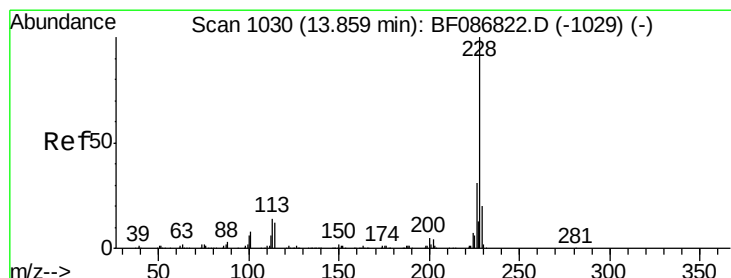
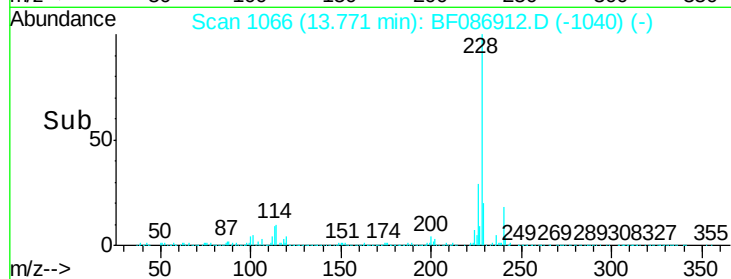
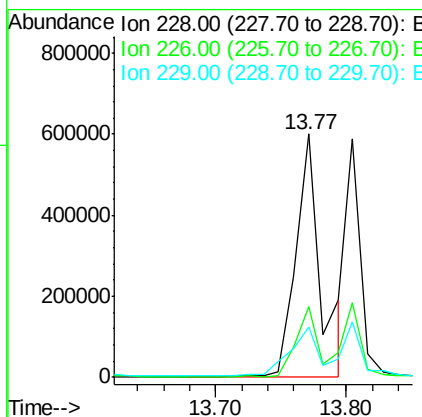
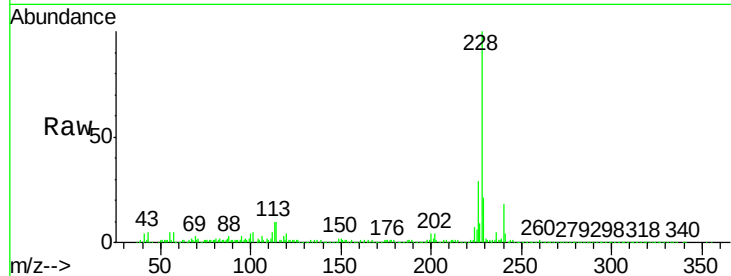
#80
Benzo(a)anthracene
Concen: 49.12 ng
RT: 13.77 min Scan# 1066
Delta R.T. -0.00 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Instrument :
BNA_F
ClientSampleId :
E-15(8.5-9)

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.5	33.7
229	20.9	16.6	25.0

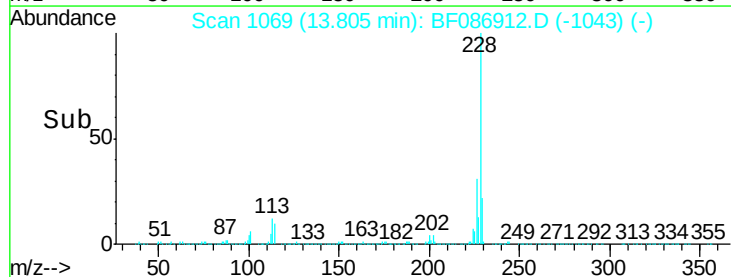
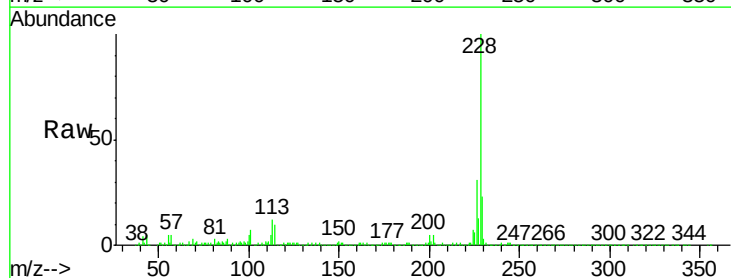
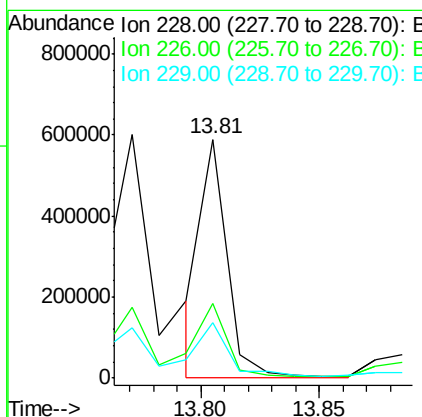
Manual Integrations
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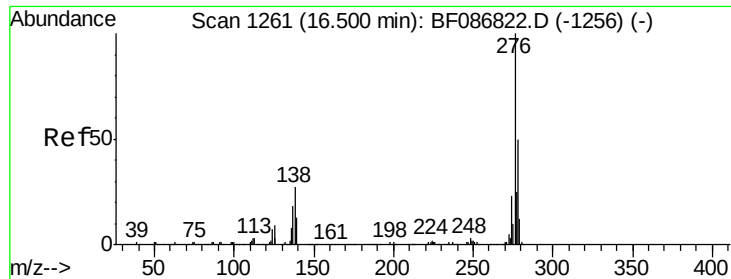
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#82
Chrysene
Concen: 28.28 ng m
RT: 13.81 min Scan# 1069
Delta R.T. -0.00 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.4	36.6
229	23.1	15.8	23.8





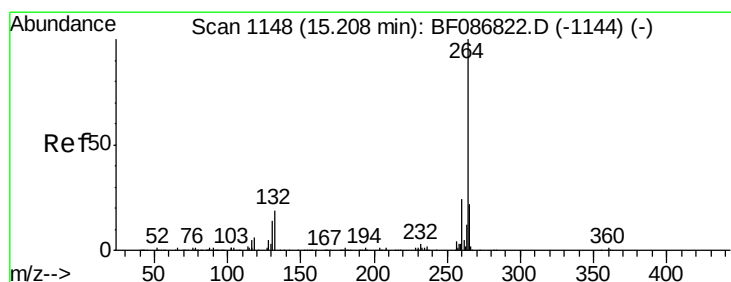
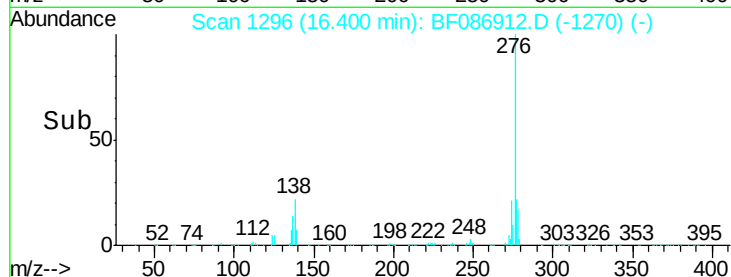
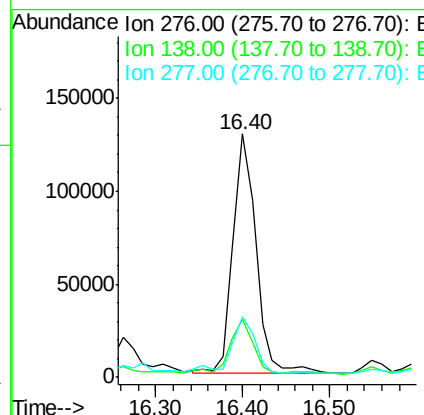
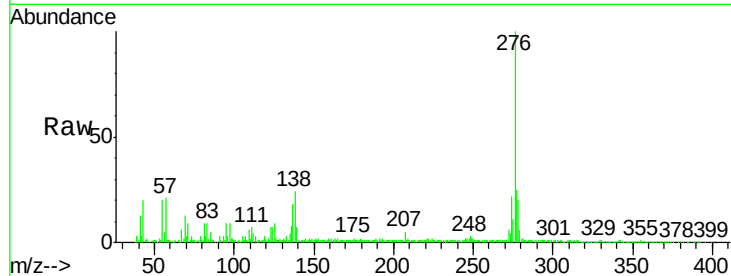
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 17.53 ng
 RT: 16.40 min Scan# 1296
 Delta R.T. -0.00 min
 Lab File: BF086912.D
 Acq: 12 May 2016 2:53

Instrument :
 BNA_F
 ClientSampleId :
 E-15(8.5-9)

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	22.3	25.6	38.4#
277	23.9	20.5	30.7

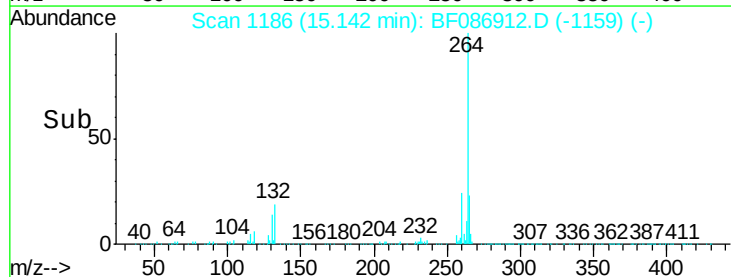
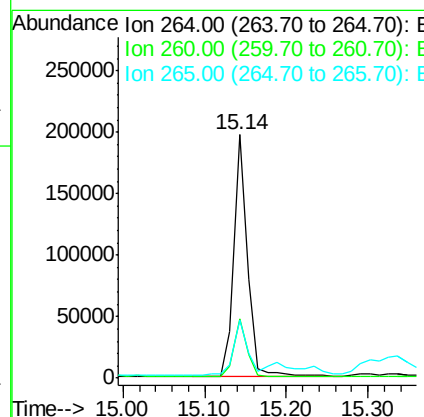
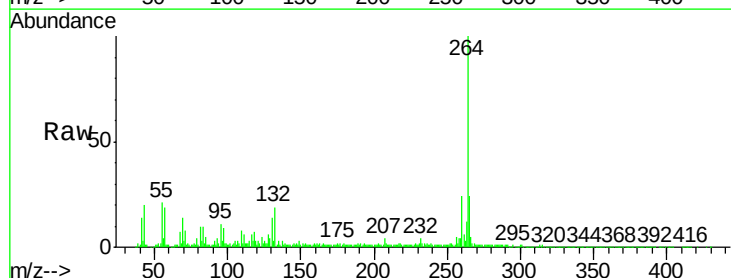
Manual Integrations
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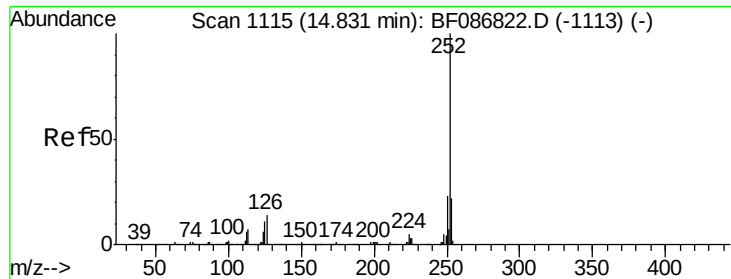
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#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.14 min Scan# 1186
 Delta R.T. 0.01 min
 Lab File: BF086912.D
 Acq: 12 May 2016 2:53

Tgt Ion	Ratio	Resp Lower	Upper
264	100		
260	24.4	19.5	29.3
265	23.6	17.3	25.9





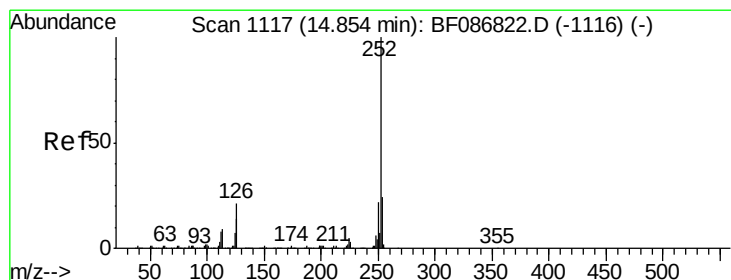
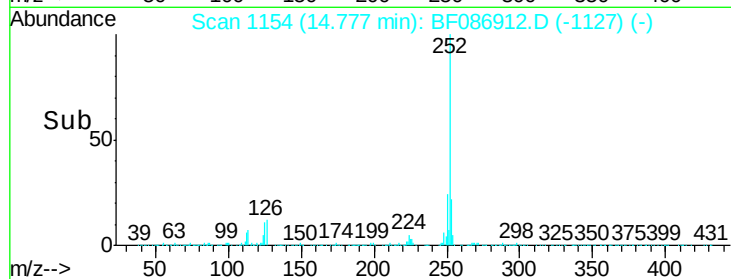
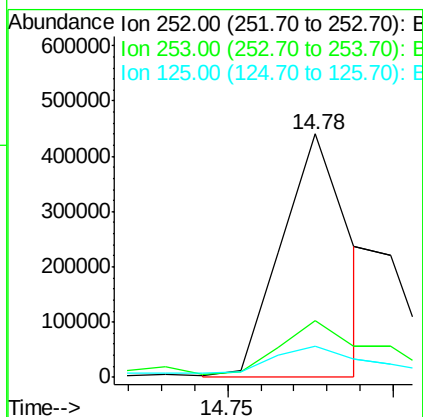
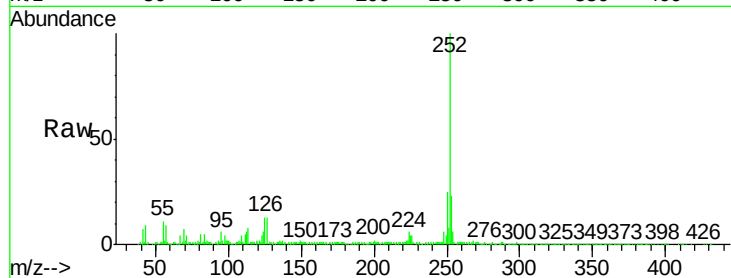
#87
Benzo(b)fluoranthene
Concen: 41.73 ng m
RT: 14.78 min Scan# 1154
Delta R.T. 0.01 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Instrument :
BNA_F
ClientSampled :
E-15(8.5-9)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.6
125	12.9	11.4	17.0

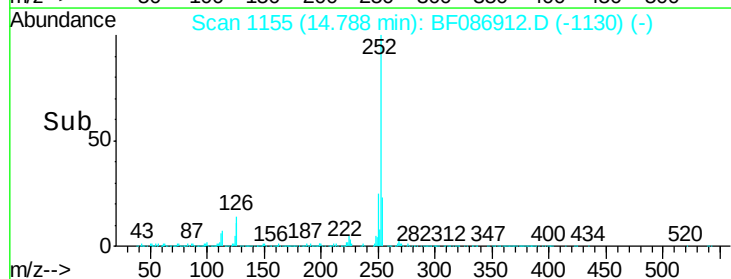
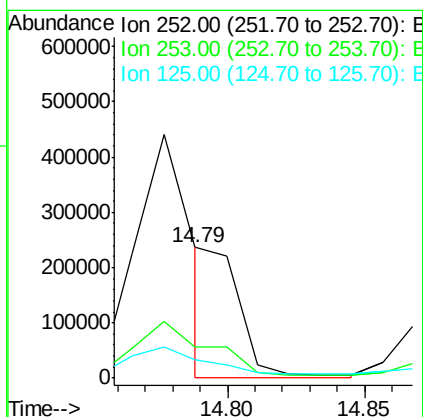
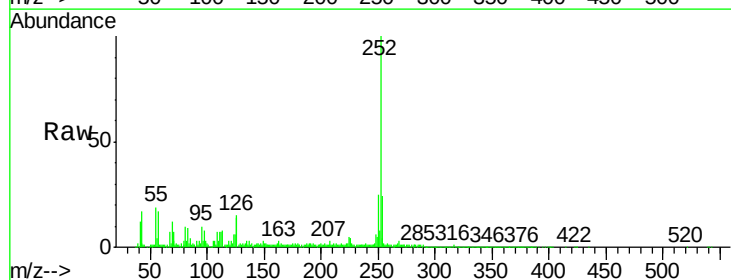
Manual Integrations
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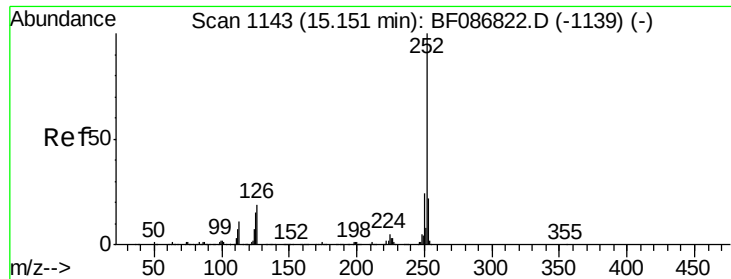
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#88
Benzo(k)fluoranthene
Concen: 14.83 ng m
RT: 14.79 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.8	26.6
125	14.0	9.1	13.7#





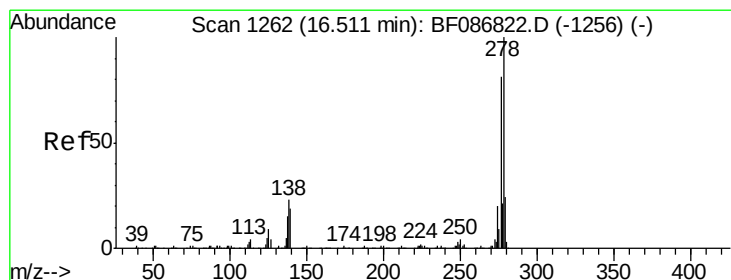
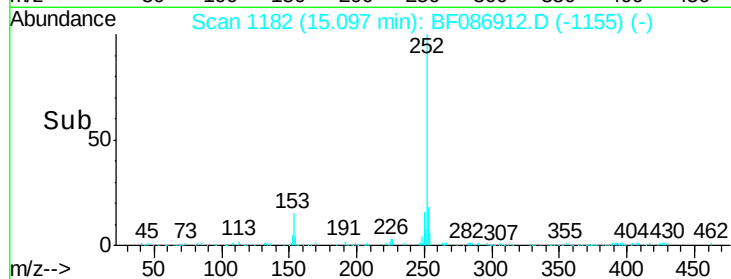
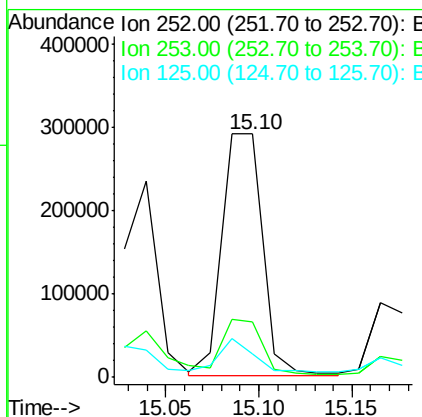
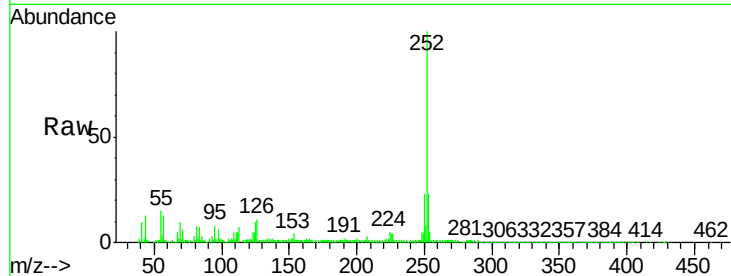
#89
Benzo(a)pyrene
Concen: 34.11 ng
RT: 15.10 min Scan# 1182
Delta R.T. 0.01 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Instrument :
BNA_F
ClientSampleId :
E-15(8.5-9)

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	442394		
253	23.0	17.2	25.8	
125	9.9	9.0	13.6	

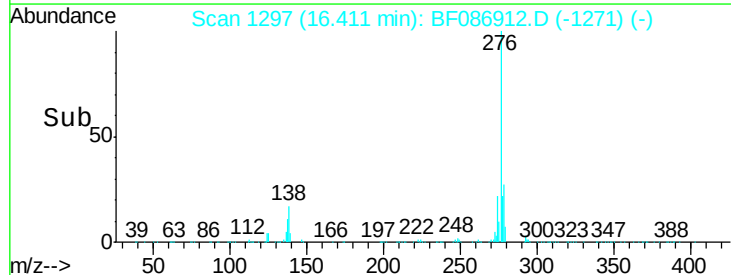
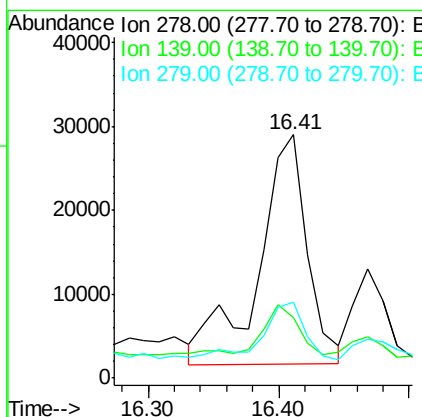
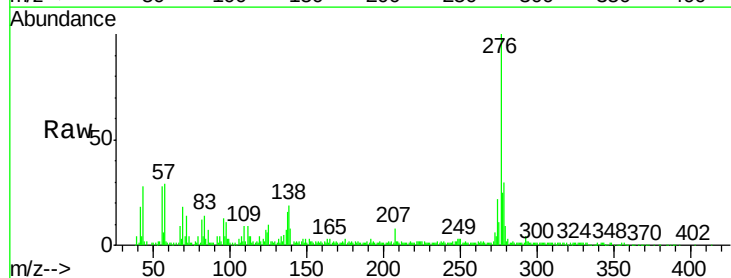
Manual Integrations
APPROVED

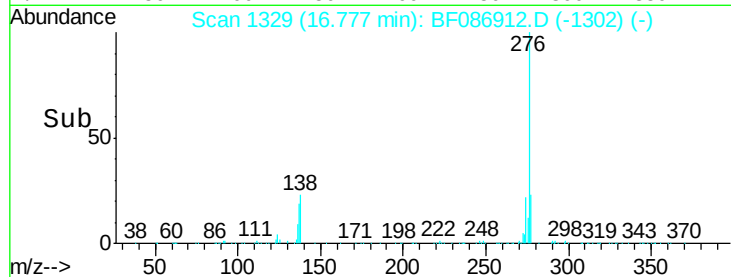
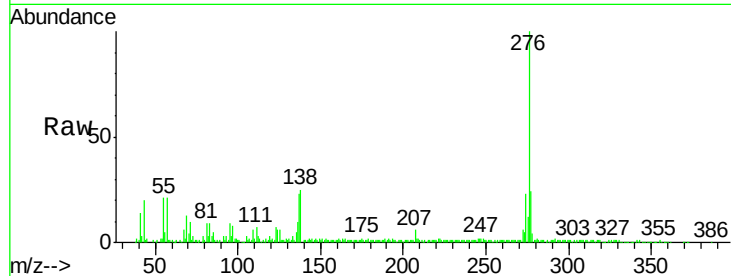
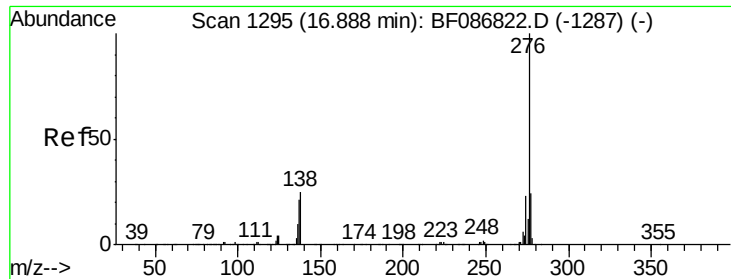
sohil
5/12/2016 9:09:08 AM



#90
Dibenzo(a,h)anthracene
Concen: 6.59 ng
RT: 16.41 min Scan# 1297
Delta R.T. -0.00 min
Lab File: BF086912.D
Acq: 12 May 2016 2:53

Tgt Ion	Ratio	Resp	Lower	Upper
278	100	72043		
139	24.7	16.6	24.8	
279	31.1	19.6	29.4	





#91

Benzo(g,h,i)perylene

Concen: 20.12 ng

RT: 16.78 min Scan# 1329

Delta R.T. 0.01 min

Lab File: BF086912.D

Acq: 12 May 2016 2:53

Instrument :

BNA_F

ClientSampleId :

E-15(8.5-9)

Tgt	Ion	276	Resp	223413
	Ratio	100	Lower	Upper
276				
277	24.3	19.6	29.4	
138	24.8	23.6	35.4	

Manual Integrations
APPROVED

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5/12/2016 9:09:08 AM

