

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
 Data File : BF086911.D
 Acq On : 12 May 2016 2:24
 Operator : UM/SJ
 Sample : H2965-01
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-13(5.5-6)

Manual Integrations
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Quant Time: May 12 06:43:44 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	129694	20.00	ng	-0.01
21) Naphthalene-d8	7.92	136	494018	20.00	ng	0.00
38) Acenaphthene-d10	9.67	164	195109	20.00	ng	-0.01
63) Phenanthrene-d10	11.14	188	303384	20.00	ng	-0.01
75) Chrysene-d12	13.77	240	258163	20.00	ng	-0.01
86) Perylene-d12	15.14	264	214905	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.22	112	839122	109.57	ng	0.00
7) Phenol-d6	6.30	99	1070879	104.63	ng	-0.01
23) Nitrobenzene-d5	7.21	82	790655	80.36	ng	-0.01
41) 2,4,6-Tribromophenol	10.46	330	191777	92.85	ng	-0.01
44) 2-Fluorobiphenyl	9.00	172	1038368	89.44	ng	0.00
78) Terphenyl-d14	12.73	244	725124	59.59	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.94	128	210359	8.50	ng	99
48) Acenaphthylene	9.53	152	45995	2.57	ng	98
49) Dimethylphthalate	9.40	163	90260	6.06	ng	99
51) Acenaphthene	9.70	154	94024	8.45	ng	98
54) Dibenzofuran	9.87	168	68765	4.82	ng	98
57) Fluorene	10.22	166	42601	3.50	ng	97
70) Phenanthrene	11.16	178	503902	31.12	ng	99
71) Anthracene	11.22	178	173224	10.46	ng	98
72) Carbazole	11.38	167	43065	3.03	ng	# 94
74) Fluoranthene	12.35	202	888643	53.36	ng	98
77) Pyrene	12.58	202	900624	45.57	ng	100
80) Benzo(a)anthracene	13.77	228	498825	34.42	ng	95
82) Chrysene	13.81	228	426361m	28.92	ng	
83) Bis(2-ethylhexyl)phthalate	13.77	149	44544	4.43	ng	97
85) Indeno(1,2,3-cd)pyrene	16.40	276	167444	13.65	ng	# 89
87) Benzo(b)fluoranthene	14.78	252	490256m	35.10	ng	
88) Benzo(k)fluoranthene	14.79	252	119296m	10.43	ng	
89) Benzo(a)pyrene	15.09	252	307524	25.53	ng	# 92
90) Dibenzo(a,h)anthracene	16.41	278	53243	5.24	ng	# 80
91) Benzo(g,h,i)perylene	16.78	276	156138	15.13	ng	95

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

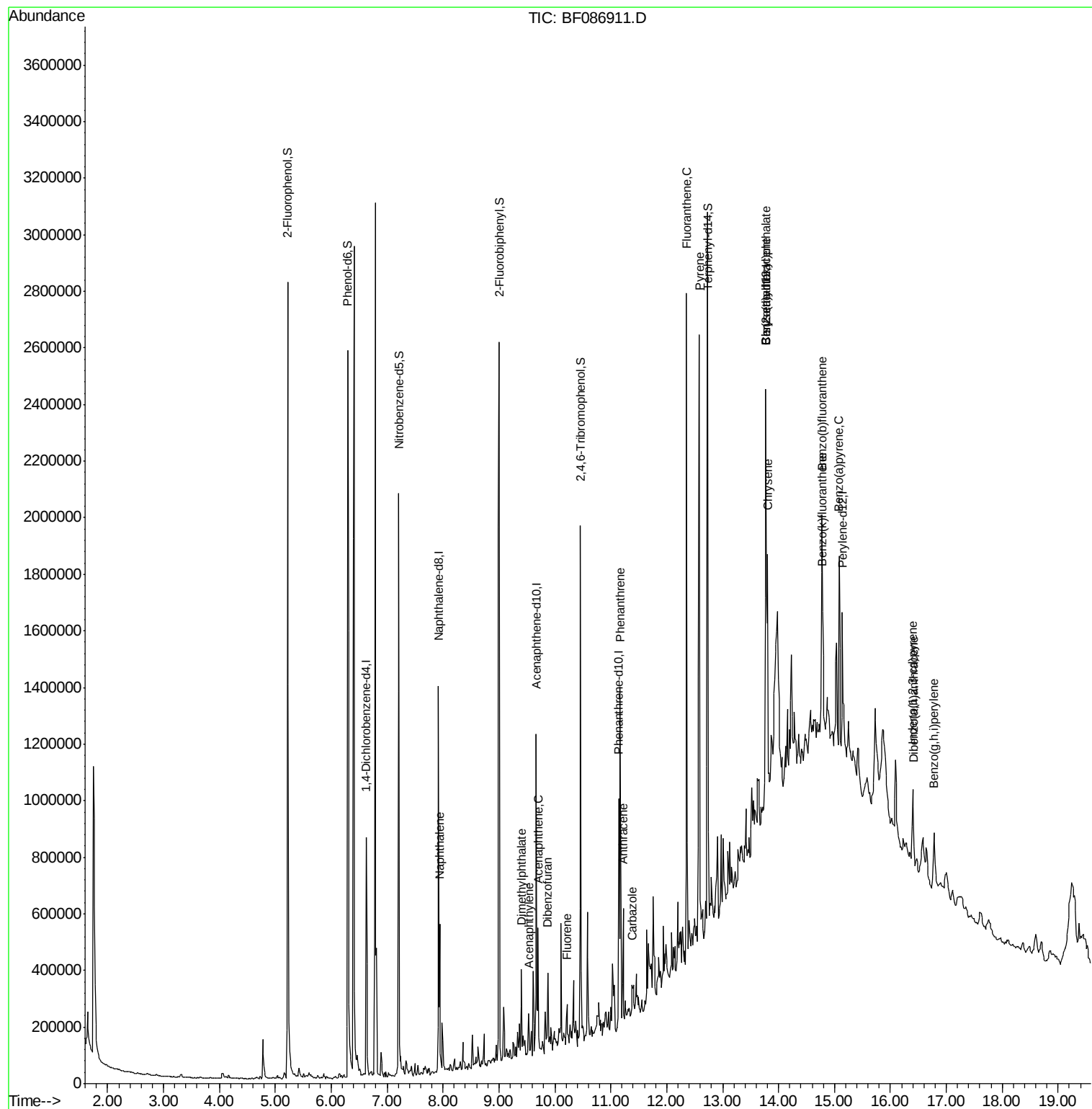
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051116\
Data File : BF086911.D
Acq On : 12 May 2016 2:24
Operator : UM/SJ
Sample : H2965-01
Misc :
ALS Vial : 22 Sample Multiplier: 1

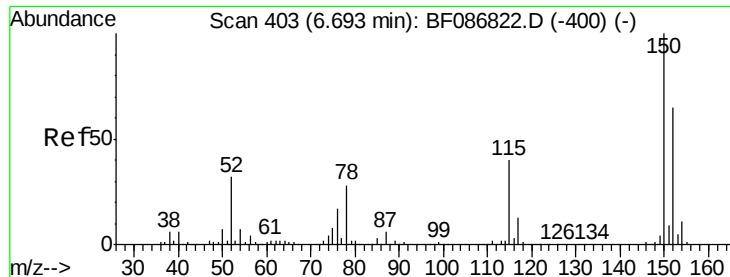
Instrument :
BNA_F
ClientSampled :
E-13(5.5-6)

Manual Integrations
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Quant Time: May 12 06:43:44 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





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.63 min Scan# 441

Delta R.T. -0.01 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Instrument :

BNA_F

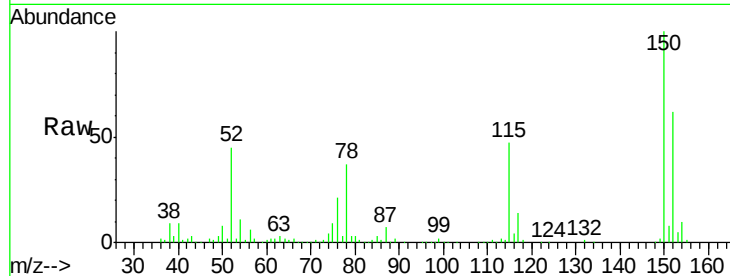
ClientSampleId :

E-13(5.5-6)

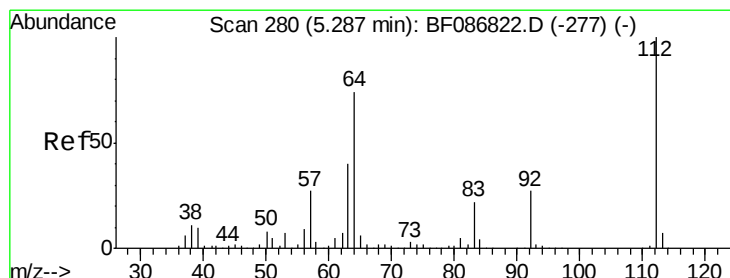
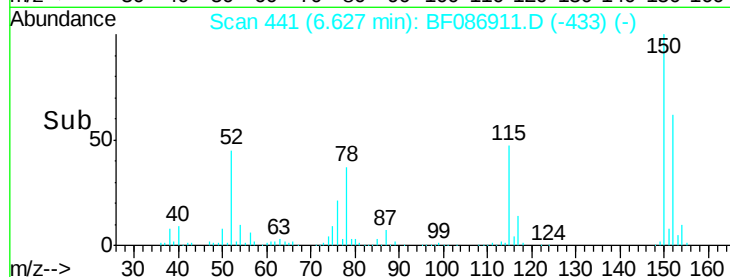
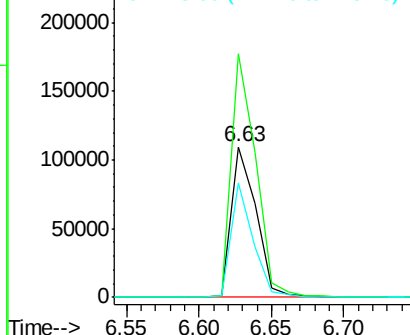
Tgt Ion:	152	Resp:	129694
Ion Ratio	Lower	Upper	
152	100		
150	162.1	125.8	188.6
115	76.4	51.5	77.3

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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: 109.57 ng

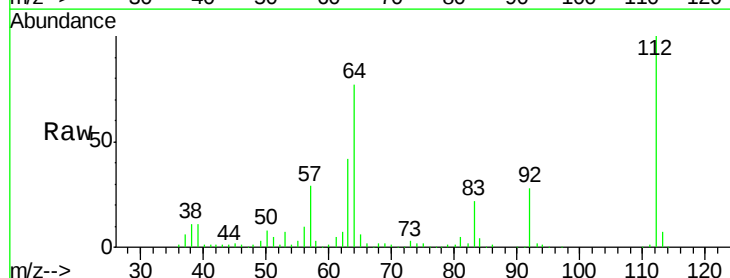
RT: 5.22 min Scan# 318

Delta R.T. -0.00 min

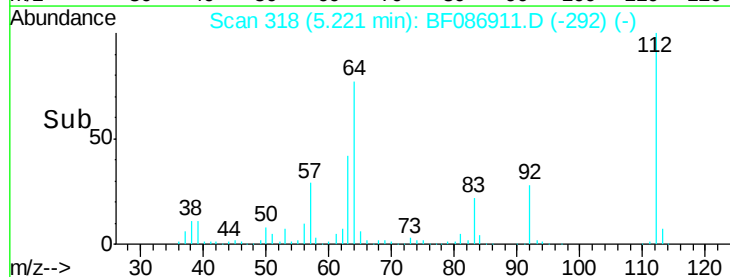
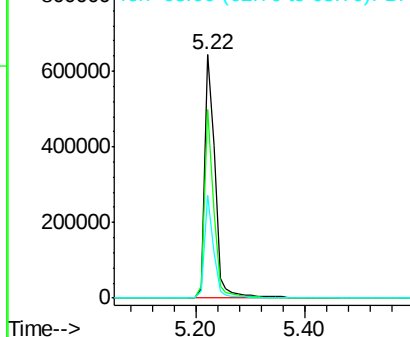
Lab File: BF086911.D

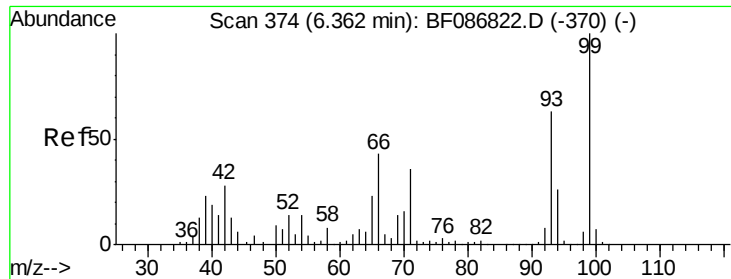
Acq: 12 May 2016 2:24

Tgt Ion:	112	Resp:	839122
Ion Ratio	Lower	Upper	
112	100		
64	77.4	52.1	78.1
63	42.1	25.7	38.5#



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: 104.63 ng

RT: 6.30 min Scan# 412

Delta R.T. -0.01 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Instrument :

BNA_F

ClientSampleId :

E-13(5.5-6)

Tgt Ion: 99 Resp: 1070879

Ion Ratio Lower Upper

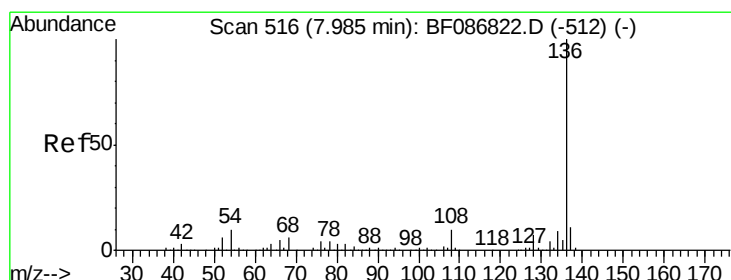
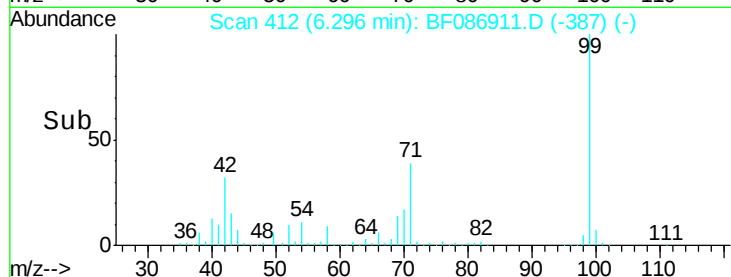
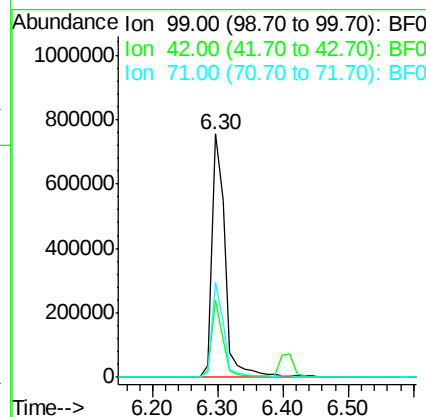
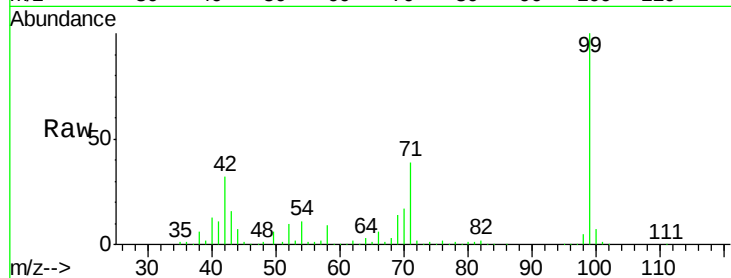
99 100

42 31.8 13.6 20.4#

71 39.2 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: BF086911.D

Acq: 12 May 2016 2:24

Tgt Ion: 136 Resp: 494018

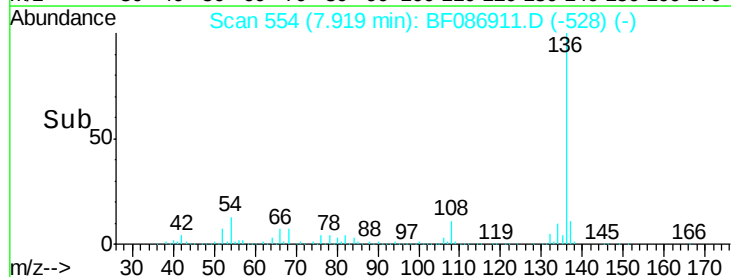
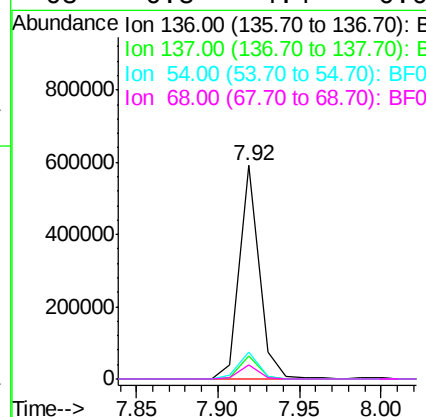
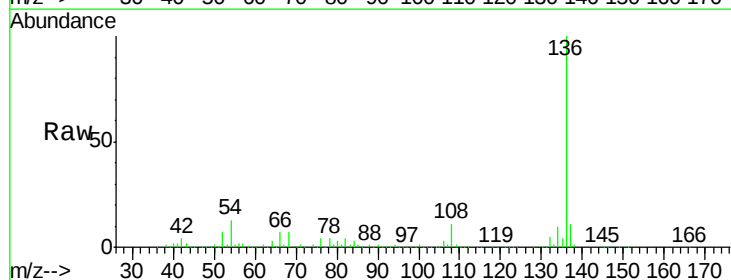
Ion Ratio Lower Upper

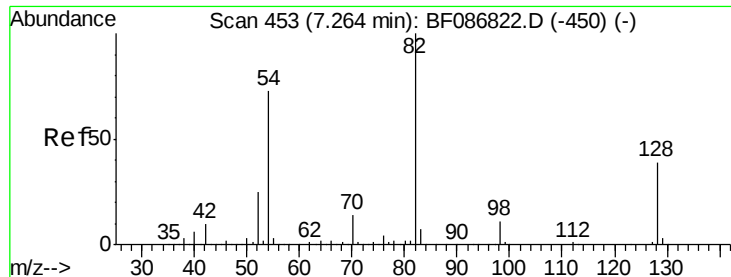
136 100

137 11.1 8.8 13.2

54 12.7 5.0 7.4#

68 6.8 4.4 6.6#





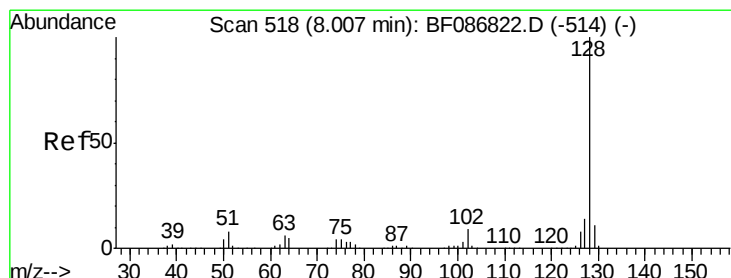
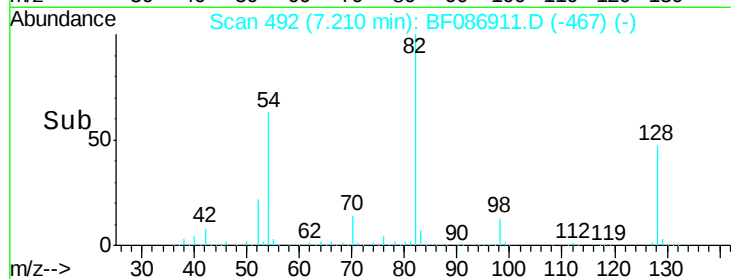
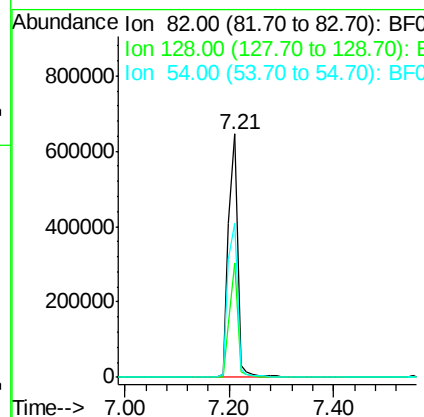
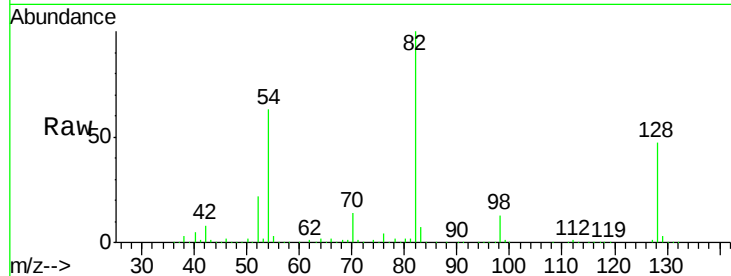
#23
Nitrobenzene-d5
Concen: 80.36 ng
RT: 7.21 min Scan# 492
Delta R.T. -0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	46.8	40.6	61.0
54	63.0	38.1	57.1

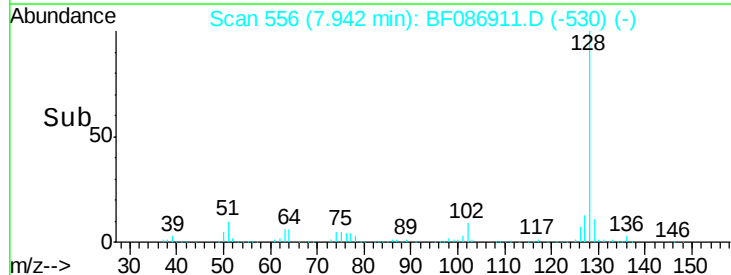
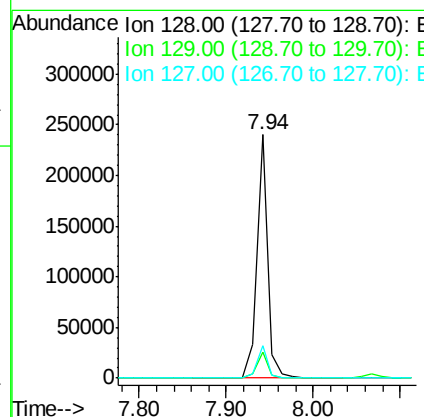
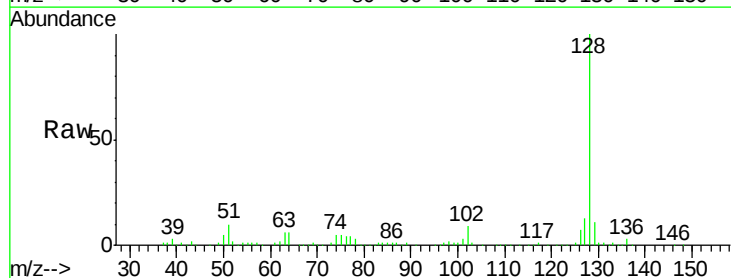
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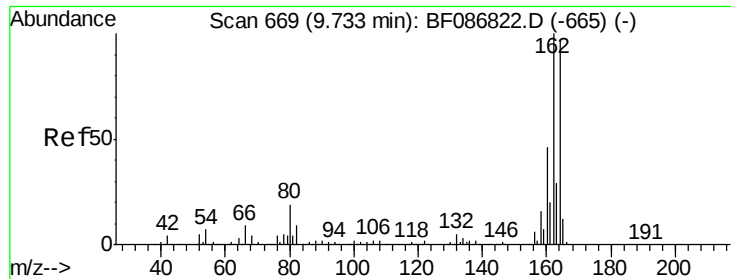
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#31
Naphthalene
Concen: 8.50 ng
RT: 7.94 min Scan# 556
Delta R.T. -0.00 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Resp Lower	Upper
128	100		
129	10.9	8.6	13.0
127	13.1	10.8	16.2





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.67 min Scan# 707

Delta R.T. -0.01 min

Lab File: BF086911.D

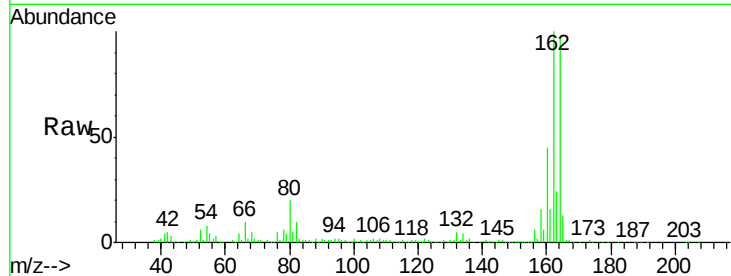
Acq: 12 May 2016 2:24

Instrument :

BNA_F

ClientSampleId :

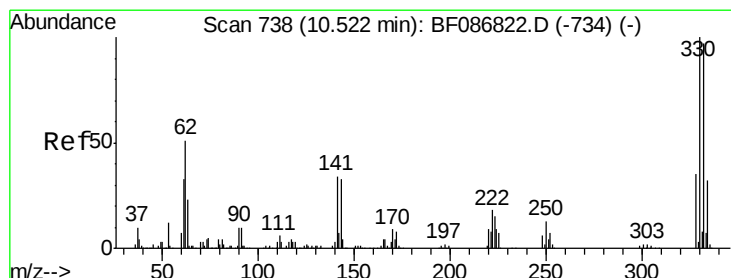
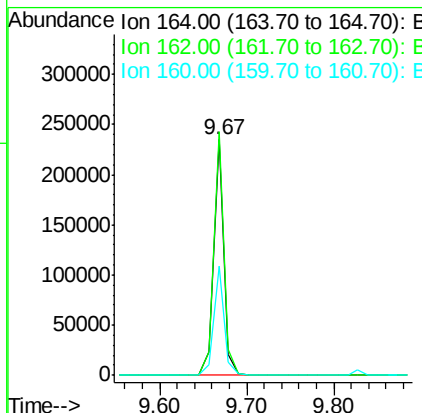
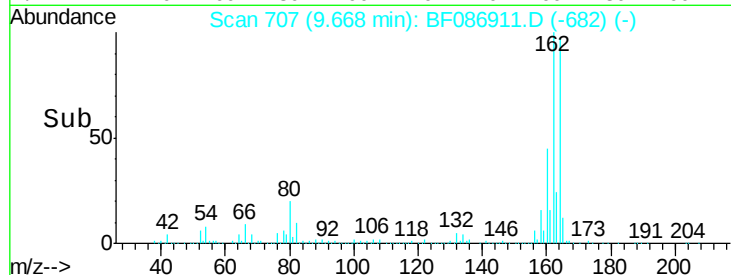
E-13(5.5-6)



Tgt Ion	Ratio	Resp	Lower	Upper
164	100	195109		
162	103.3	82.8	124.2	
160	46.3	36.9	55.3	

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#41

2,4,6-Tribromophenol

Concen: 92.85 ng

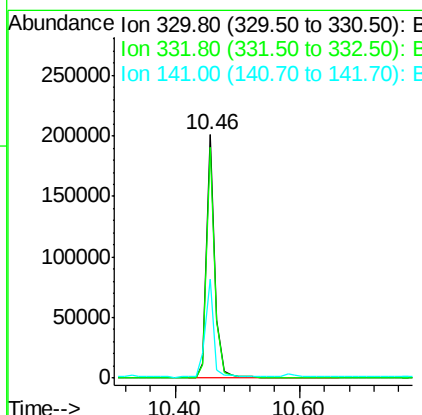
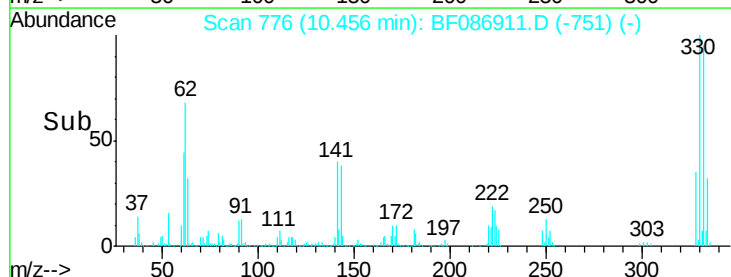
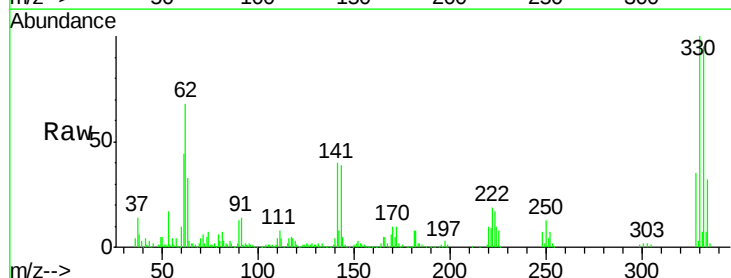
RT: 10.46 min Scan# 776

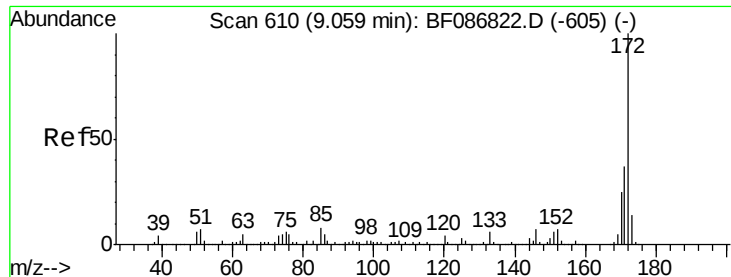
Delta R.T. -0.01 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	191777		
332	94.8	79.0	118.4	
141	41.2	31.2	46.8	





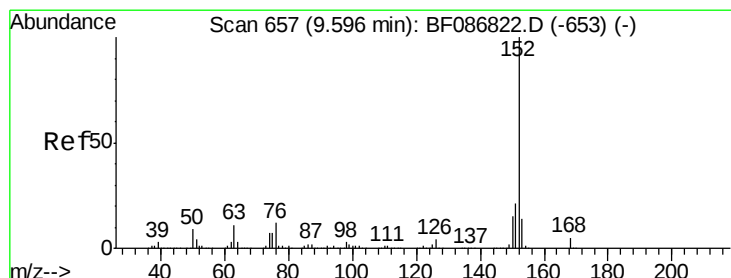
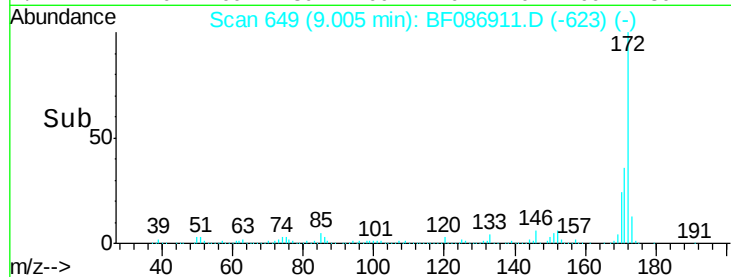
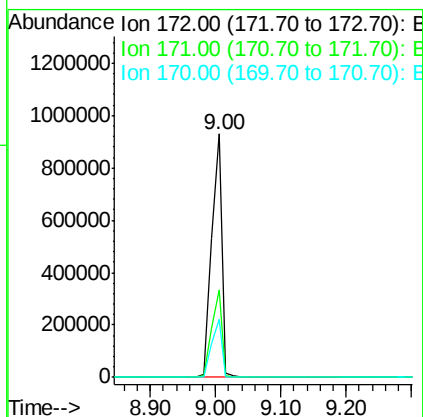
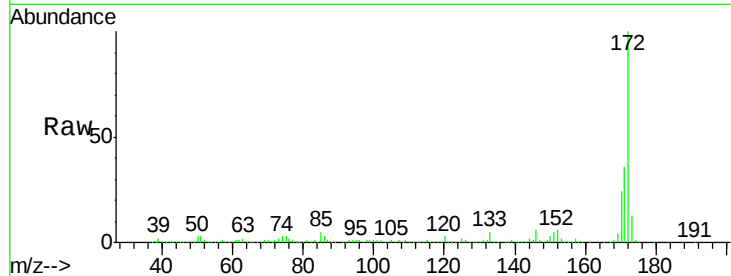
#44
 2-Fluorobiphenyl
 Concen: 89.44 ng
 RT: 9.00 min Scan# 649
 Delta R.T. -0.00 min
 Lab File: BF086911.D
 Acq: 12 May 2016 2:24

Instrument :
 BNA_F
 ClientSampleId :
 E-13(5.5-6)

Tgt Ion:172 Resp: 1038368
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.0 43.6
 170 24.1 19.8 29.8

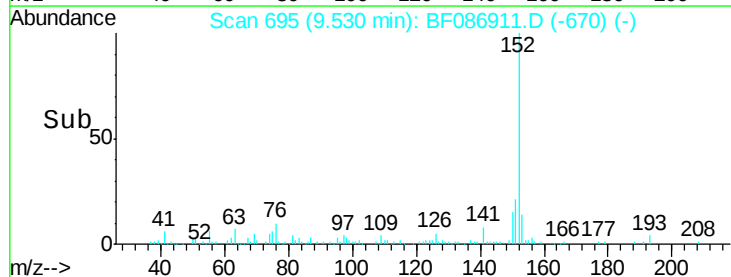
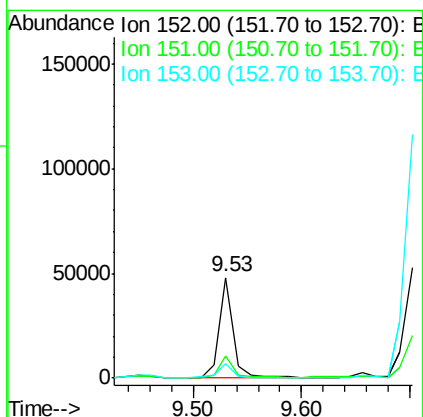
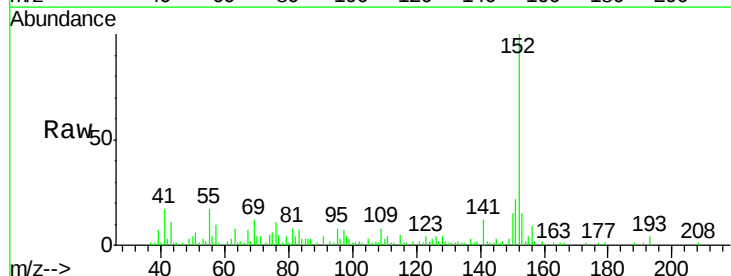
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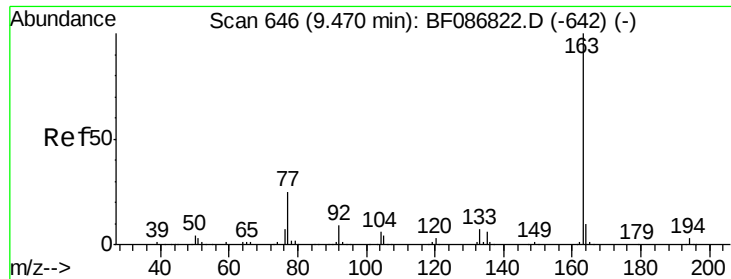
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#48
 Acenaphthylene
 Concen: 2.57 ng
 RT: 9.53 min Scan# 695
 Delta R.T. -0.01 min
 Lab File: BF086911.D
 Acq: 12 May 2016 2:24

Tgt Ion:152 Resp: 45995
 Ion Ratio Lower Upper
 152 100
 151 21.5 16.8 25.2
 153 14.8 10.9 16.3





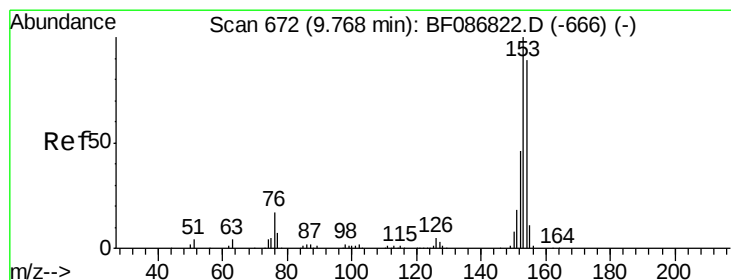
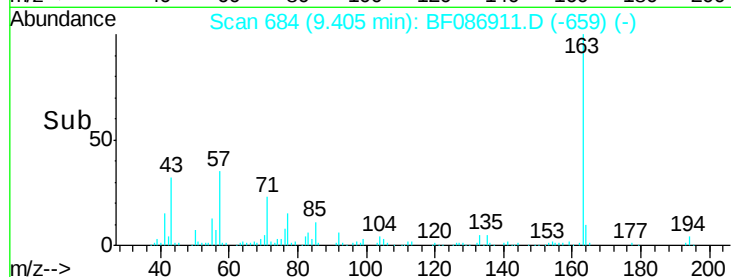
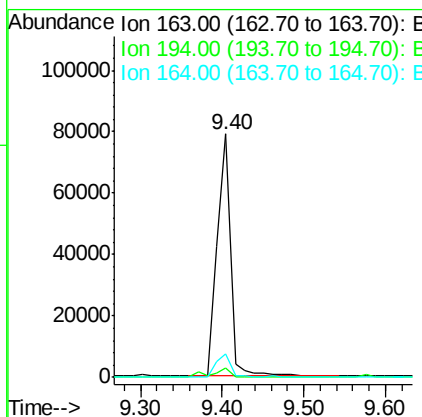
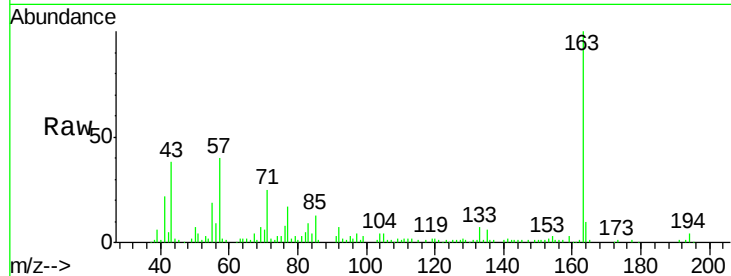
#49
Dimethylphthalate
Concen: 6.06 ng
RT: 9.40 min Scan# 684
Delta R.T. -0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	90260		
194	3.6	2.6	4.0	
164	9.7	8.2	12.4	

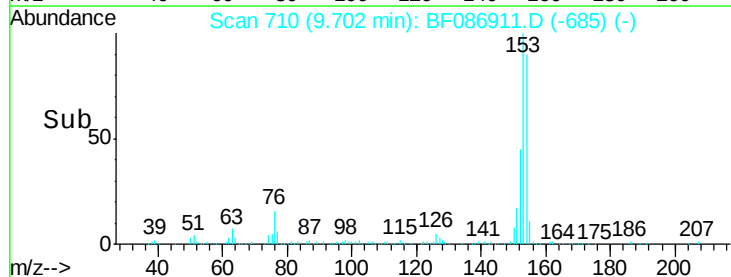
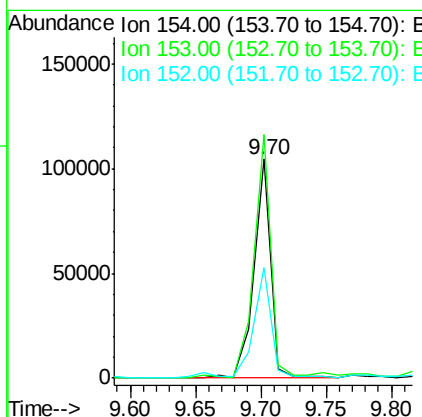
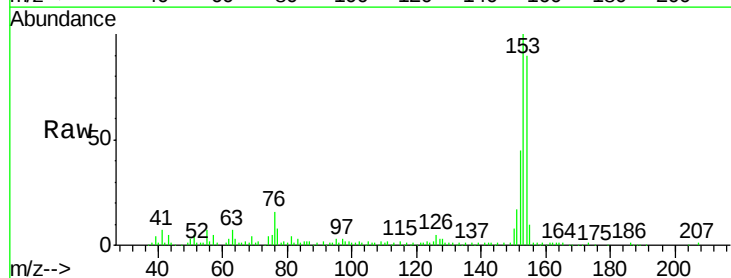
Manual Integrations
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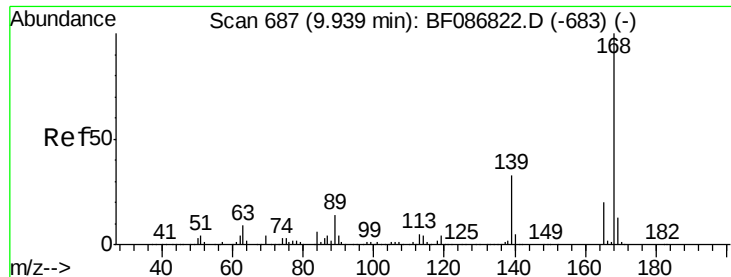
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#51
Acenaphthene
Concen: 8.45 ng
RT: 9.70 min Scan# 710
Delta R.T. -0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

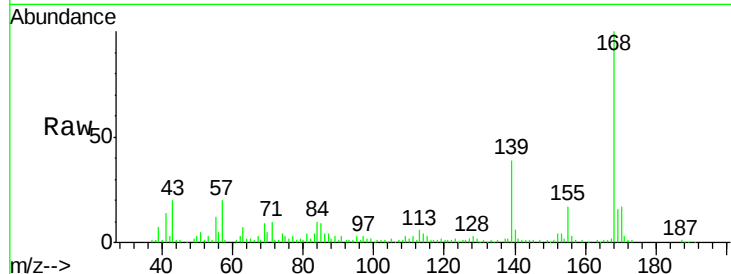
Tgt Ion	Ratio	Resp	Lower	Upper
154	100	94024		
153	111.3	89.8	134.6	
152	50.6	43.4	65.0	





#54
Dibenzenofuran
Concen: 4.82 ng
RT: 9.87 min Scan# 725
Delta R.T. -0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

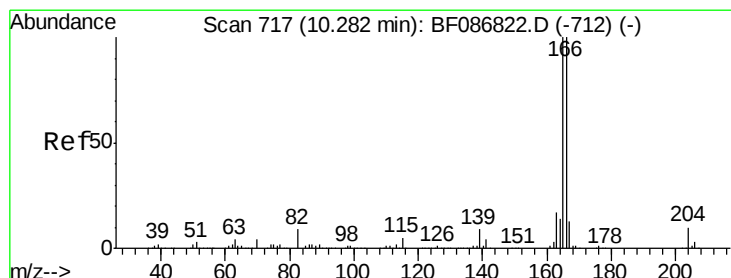
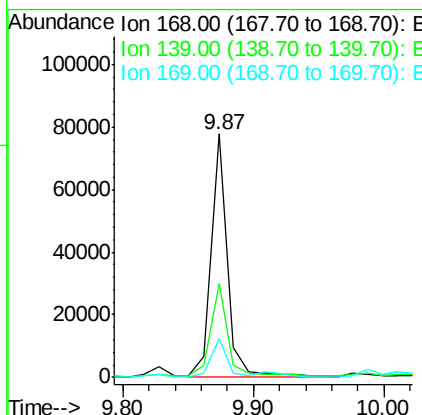
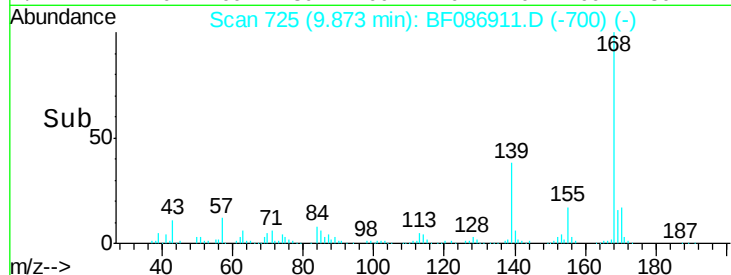
Instrument :
BNA_F
ClientSampled :
E-13(5.5-6)



Tgt Ion	Ratio	Resp	Lower	Upper
168	100	68765		
139	38.6	31.4	47.0	
169	15.9	10.7	16.1	

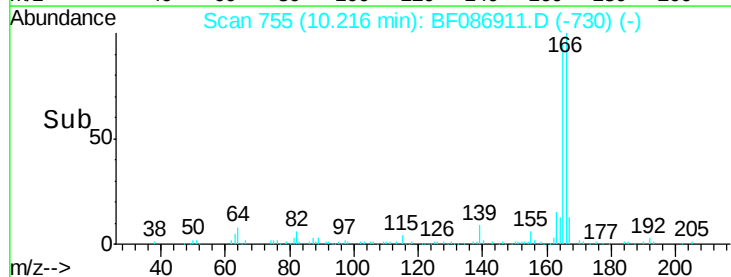
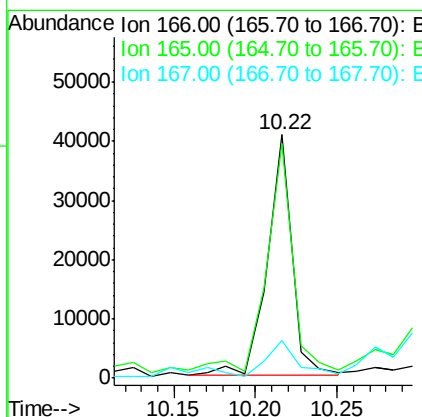
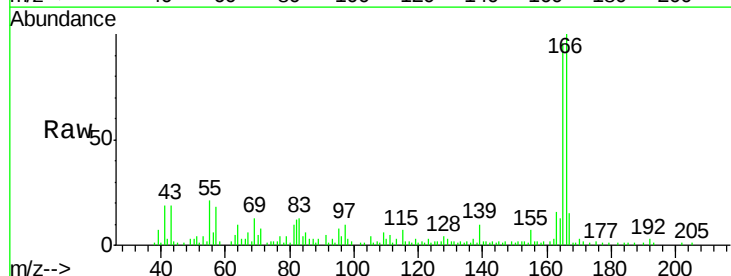
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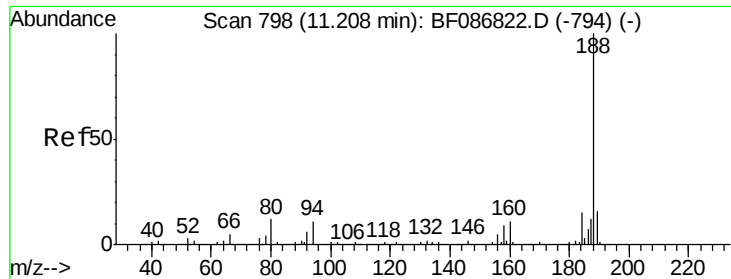
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#57
Fluorene
Concen: 3.50 ng
RT: 10.22 min Scan# 755
Delta R.T. -0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	42601		
165	96.4	79.0	118.6	
167	15.5	10.6	15.8	





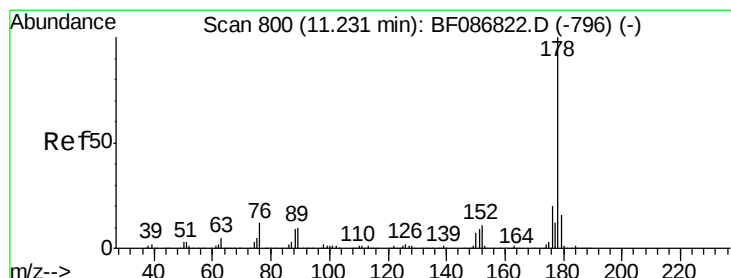
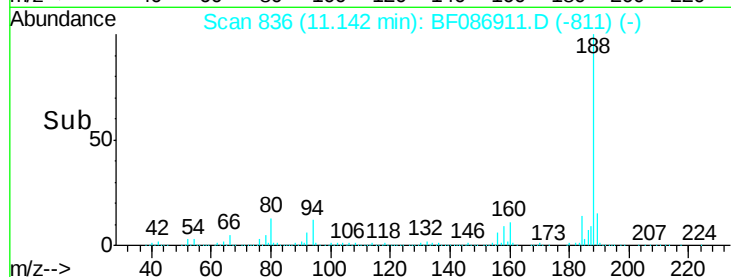
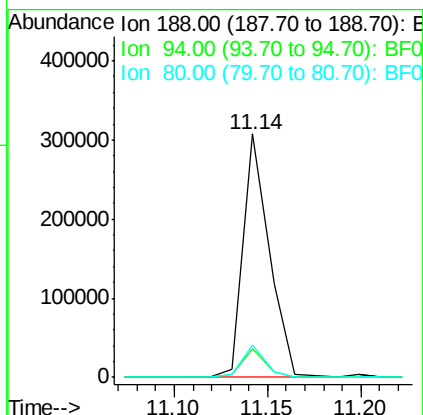
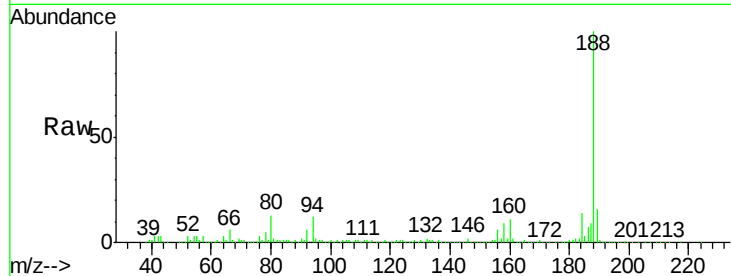
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.14 min Scan# 836
Delta R.T. -0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)

Tgt Ion	Ratio	Resp Lower	Upper
188	100		
94	11.9	6.8	10.2#
80	13.1	7.1	10.7#

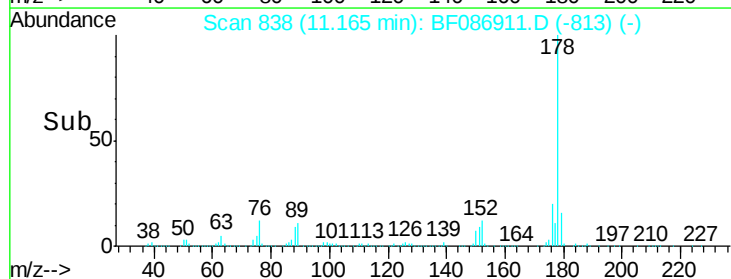
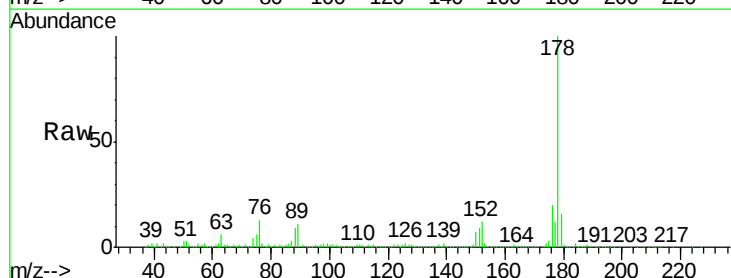
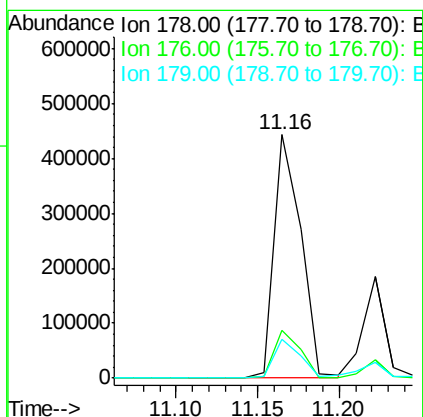
Manual Integrations
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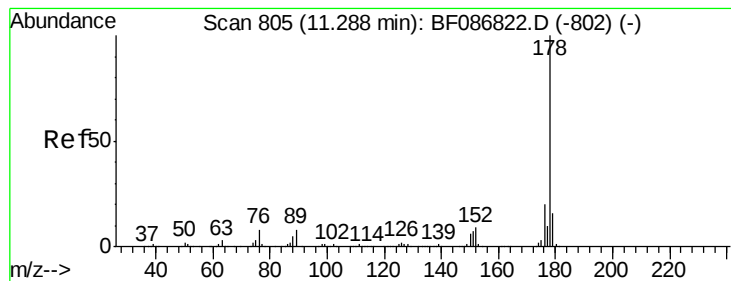
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#70
Phenanthrene
Concen: 31.12 ng
RT: 11.16 min Scan# 838
Delta R.T. -0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Resp Lower	Upper
178	100		
176	19.6	16.0	24.0
179	16.1	12.6	18.8





#71

Anthracene

Concen: 10.46 ng

RT: 11.22 min Scan# 843

Delta R.T. -0.01 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Instrument :

BNA_F

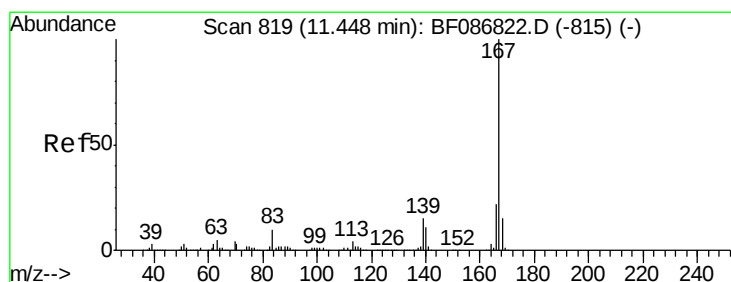
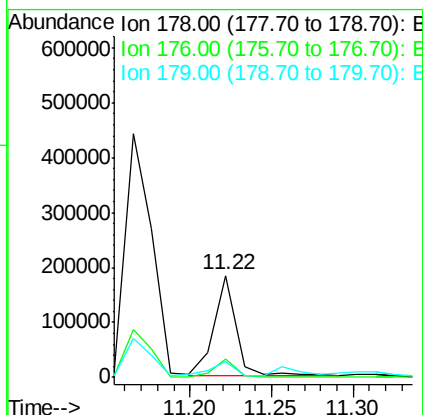
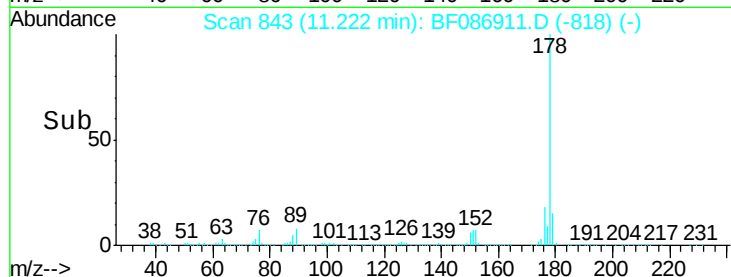
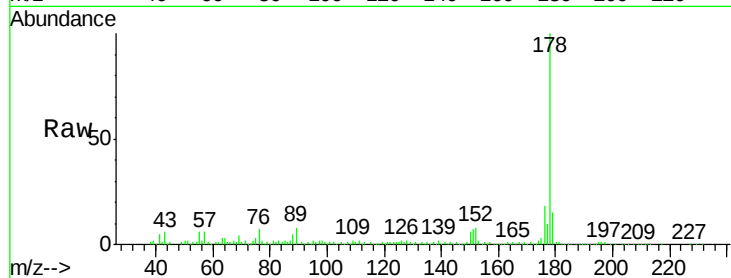
ClientSampleId :

E-13(5.5-6)

Tgt Ion:	178	Resp:	173224
Ion Ratio	Lower	Upper	
178	100		
176	18.2	15.6	23.4
179	15.4	12.7	19.1

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#72

Carbazole

Concen: 3.03 ng

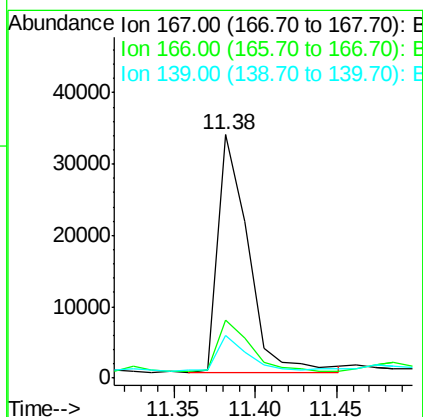
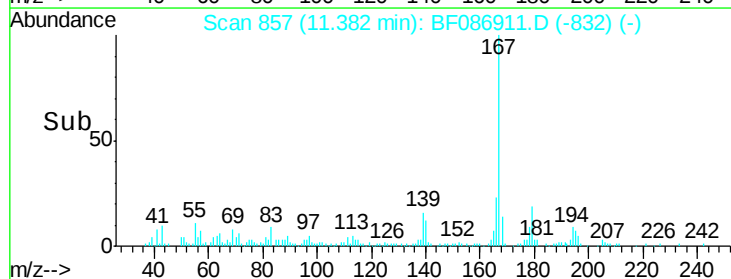
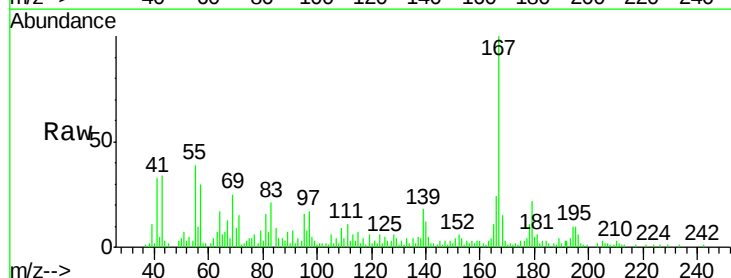
RT: 11.38 min Scan# 857

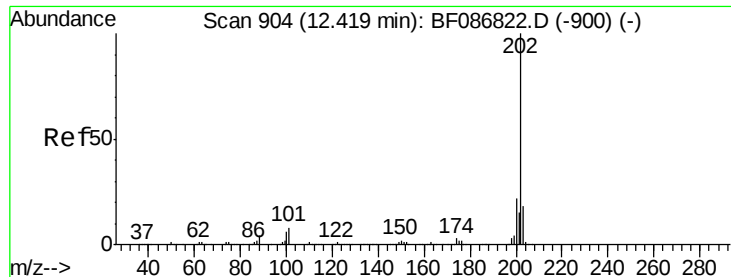
Delta R.T. -0.01 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Tgt Ion:	167	Resp:	43065
Ion Ratio	Lower	Upper	
167	100		
166	24.0	17.7	26.5
139	17.7	10.8	16.2#





#74

Fluoranthene

Concen: 53.36 ng

RT: 12.35 min Scan# 942

Delta R.T. -0.00 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Instrument :

BNA_F

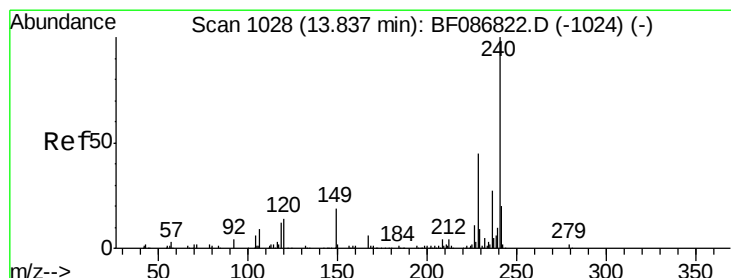
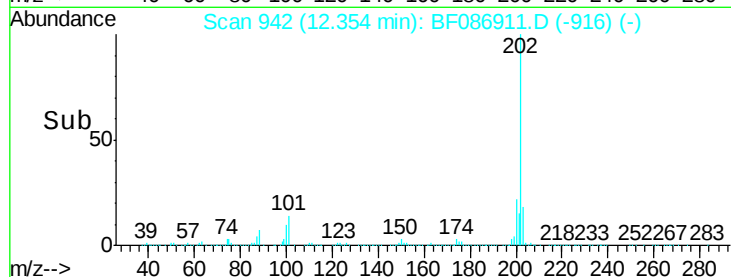
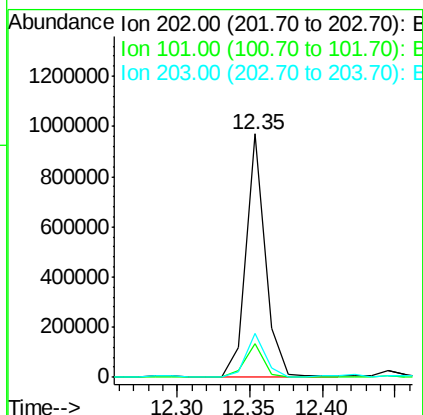
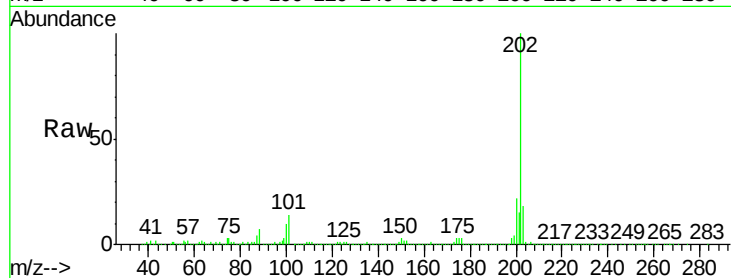
ClientSampleId :

E-13(5.5-6)

Tgt	Ion	Ratio	Resp	Lower	Upper
202	100		888643		
101	13.7	0.0	35.4		
203	18.2	0.0	38.1		

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#75

Chrysene-d12

Concen: 20.00 ng

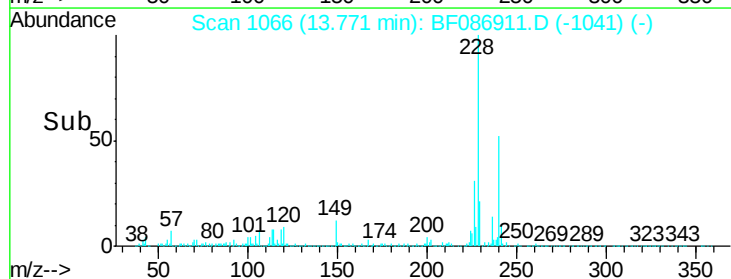
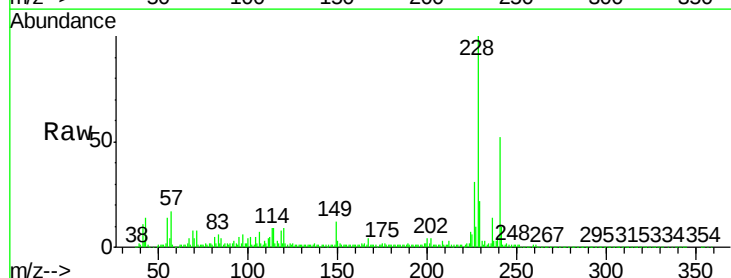
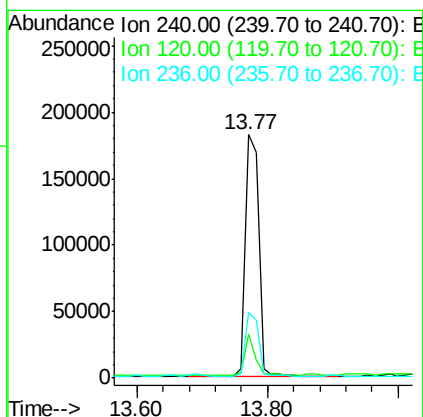
RT: 13.77 min Scan# 1066

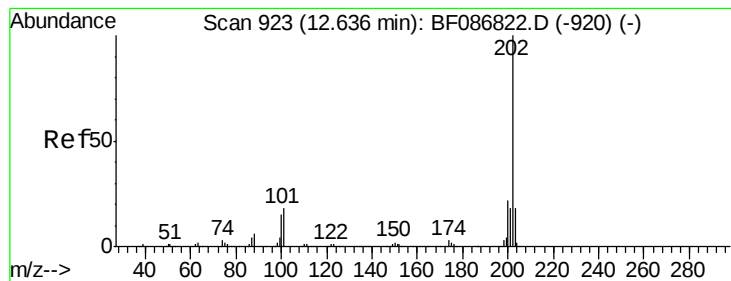
Delta R.T. -0.01 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Tgt	Ion	Ratio	Resp	Lower	Upper
240	100		258163		
120	18.2	11.2	16.8#		
236	27.1	21.2	31.8		





#77

Pyrene

Concen: 45.57 ng

RT: 12.58 min Scan# 962

Delta R.T. -0.00 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Instrument :

BNA_F

ClientSampleId :

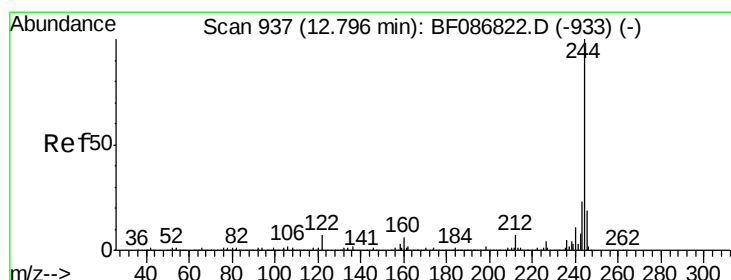
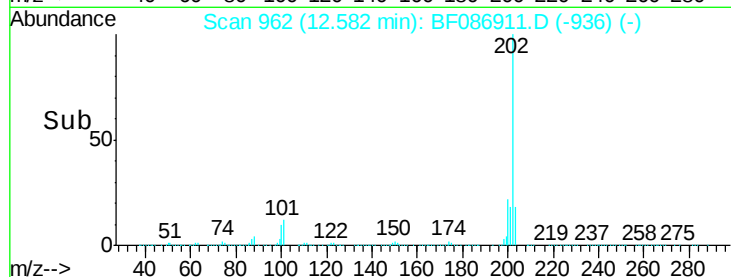
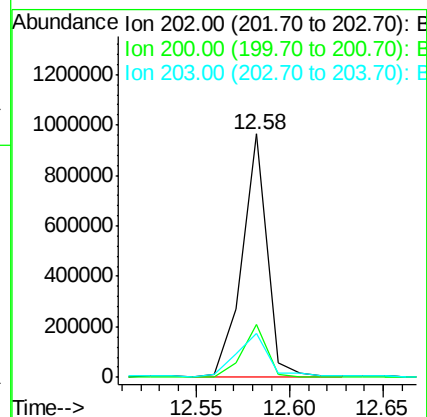
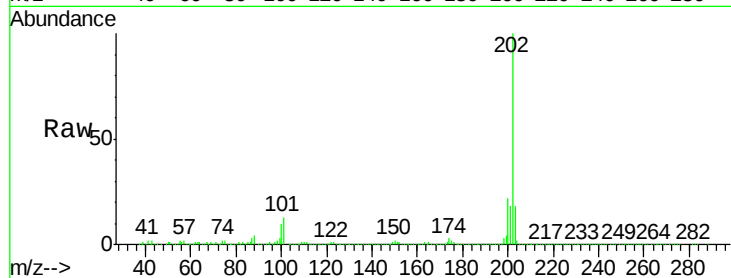
E-13(5.5-6)

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Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.9	17.7	26.5
203	18.1	14.2	21.4



#78

Terphenyl-d14

Concen: 59.59 ng

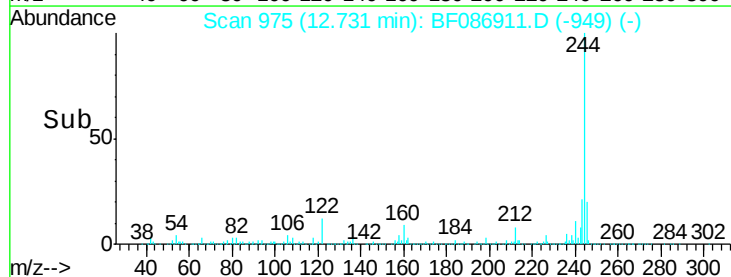
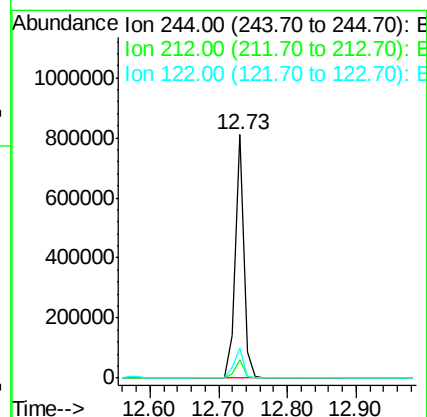
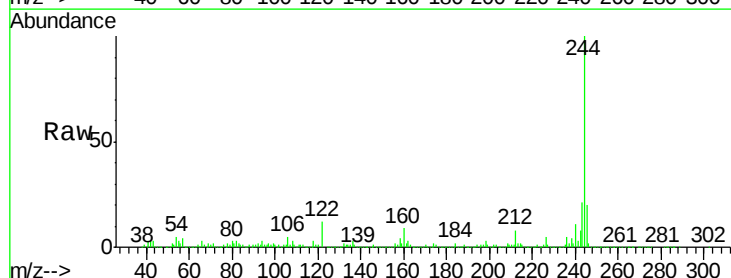
RT: 12.73 min Scan# 975

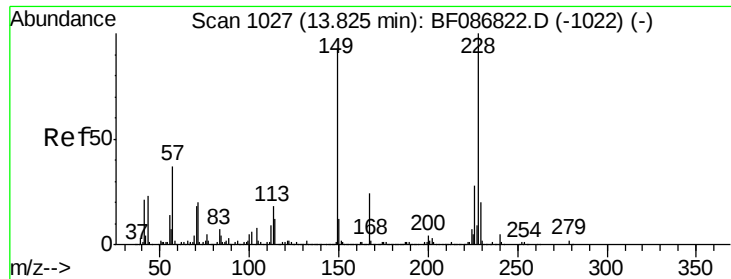
Delta R.T. -0.00 min

Lab File: BF086911.D

Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.2	9.2
122	12.4	12.0	18.0





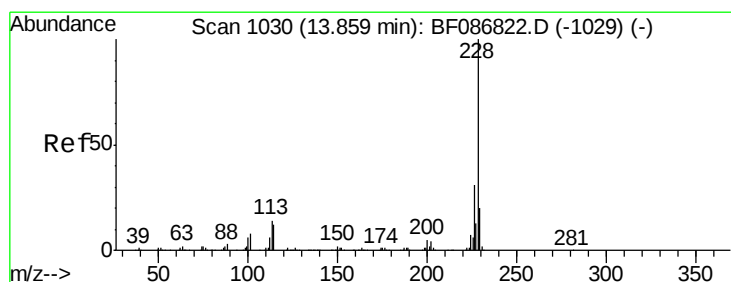
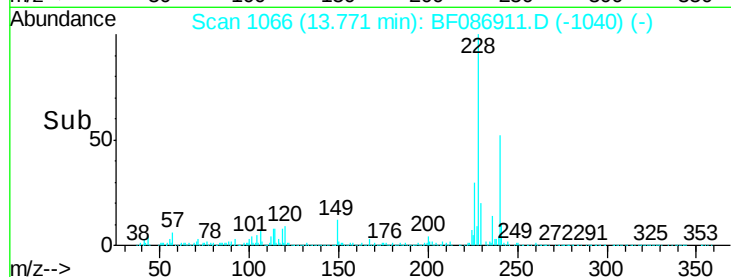
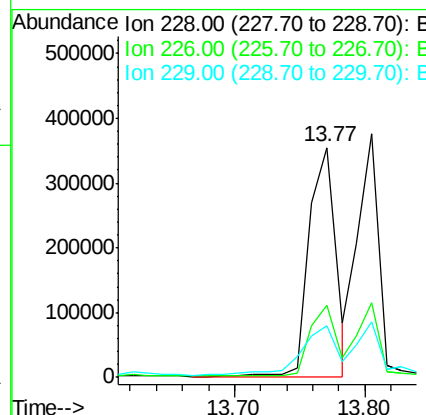
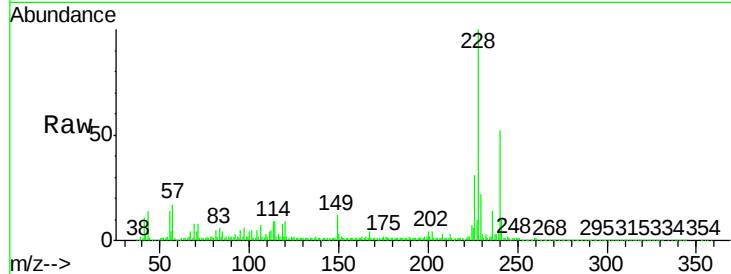
#80
Benzo(a)anthracene
Concen: 34.42 ng
RT: 13.77 min Scan# 1066
Delta R.T. -0.00 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	31.3	22.5	33.7
229	22.2	16.6	25.0

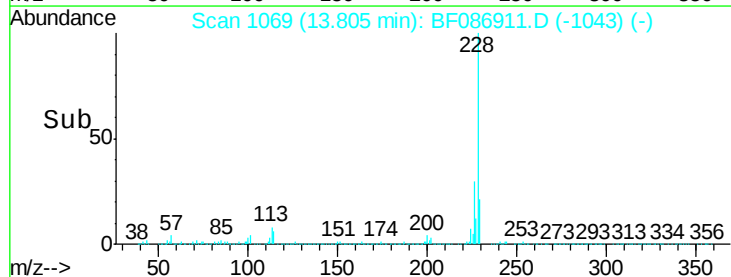
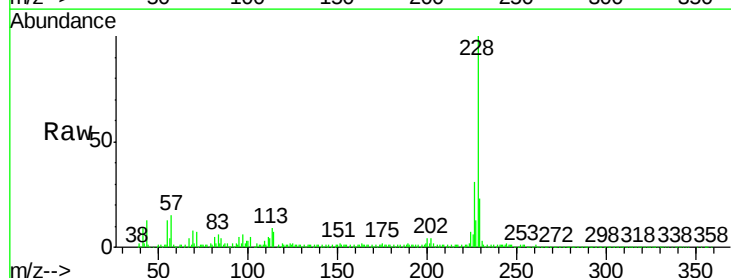
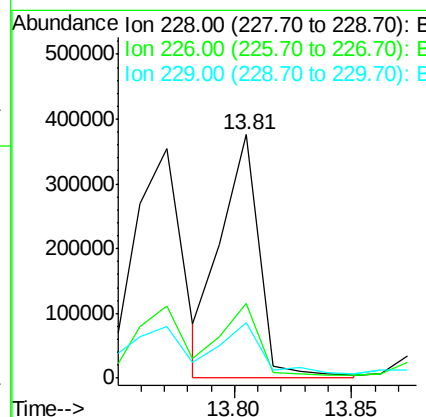
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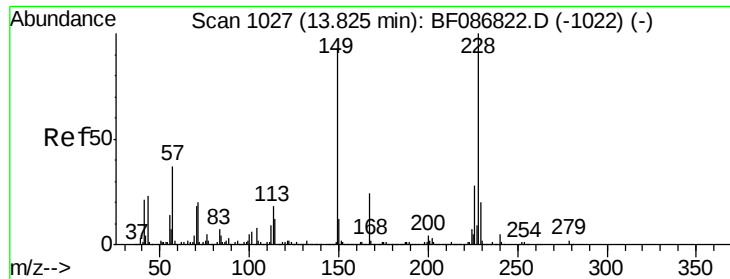
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#82
Chrysene
Concen: 28.92 ng m
RT: 13.81 min Scan# 1069
Delta R.T. -0.00 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Resp Lower	Resp Upper
228	100		
226	30.6	24.4	36.6
229	22.8	15.8	23.8





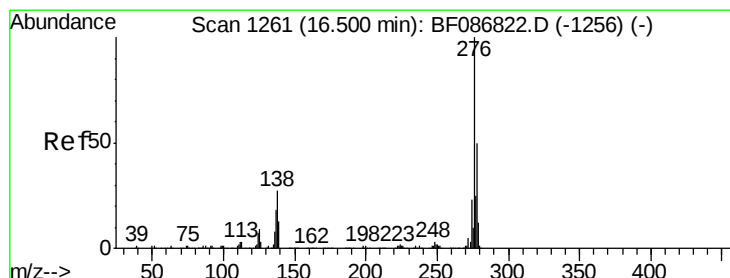
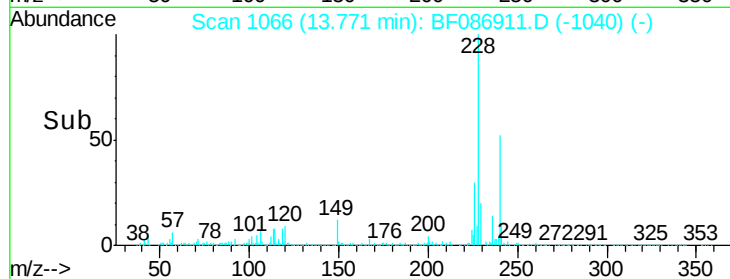
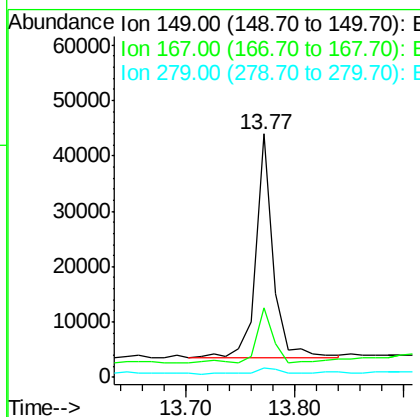
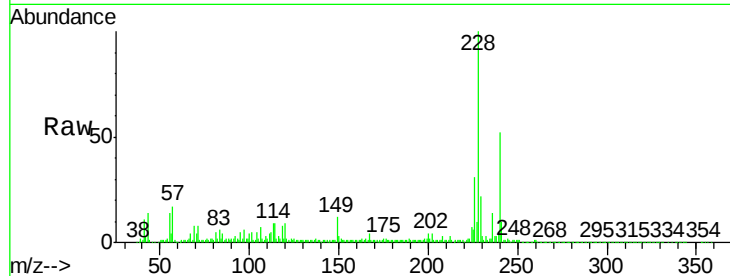
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 4.43 ng
 RT: 13.77 min Scan# 1066
 Delta R.T. -0.00 min
 Lab File: BF086911.D
 Acq: 12 May 2016 2:24

Instrument :
 BNA_F
 ClientSampleId :
 E-13(5.5-6)

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	44544		
167	28.8	21.8	32.6	
279	3.7	2.6	4.0	

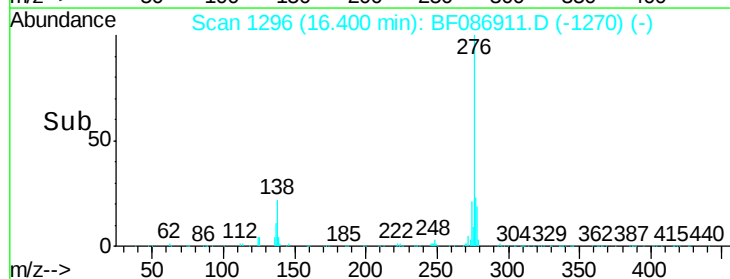
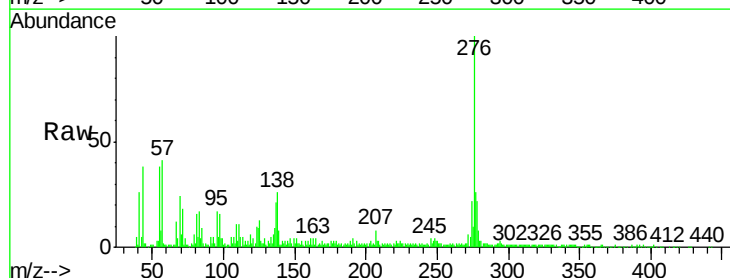
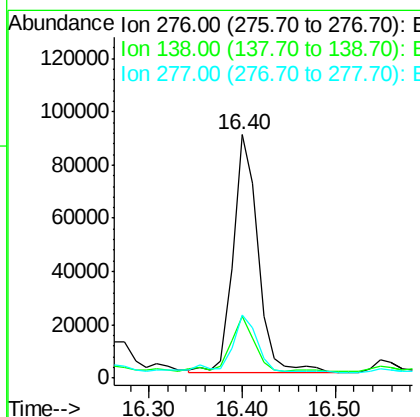
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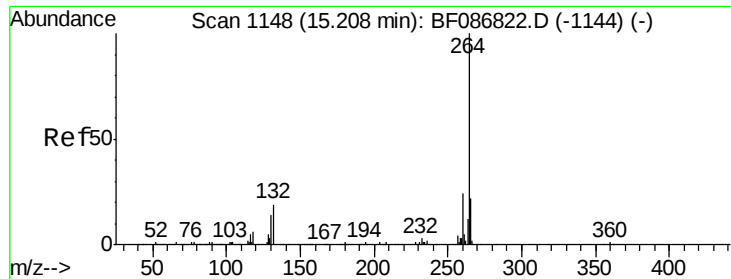
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.65 ng
 RT: 16.40 min Scan# 1296
 Delta R.T. -0.00 min
 Lab File: BF086911.D
 Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Resp	Lower	Upper
276	100	167444		
138	21.8	25.6	38.4#	
277	26.0	20.5	30.7	





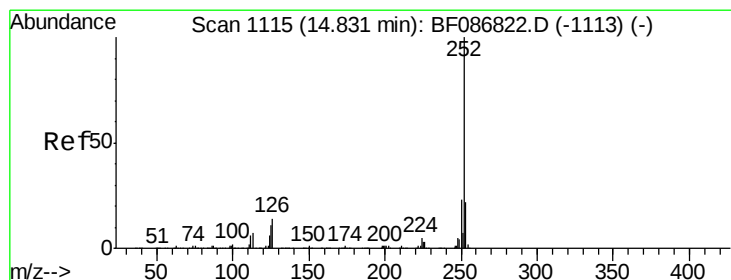
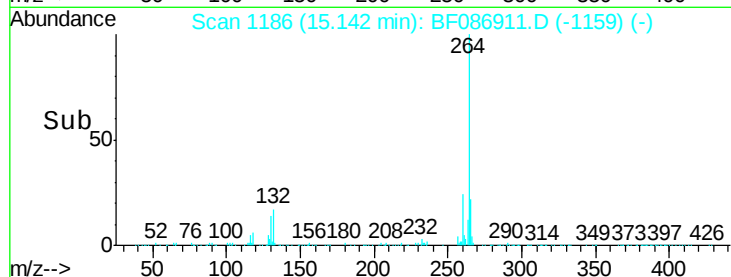
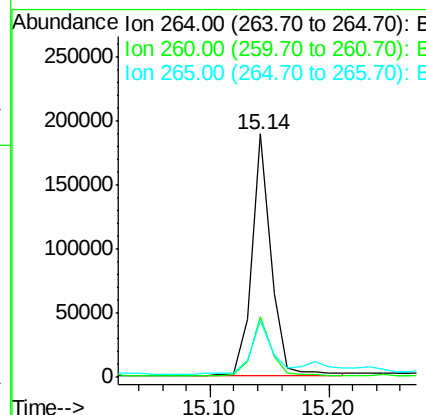
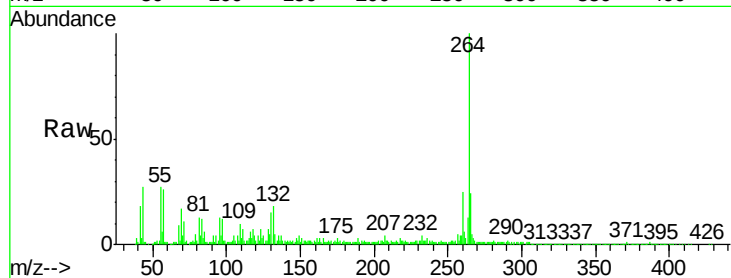
#86
Perylene-d12
Concen: 20.00 ng
RT: 15.14 min Scan# 1186
Delta R.T. 0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)

Tgt Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.5	29.3
265	23.6	17.3	25.9

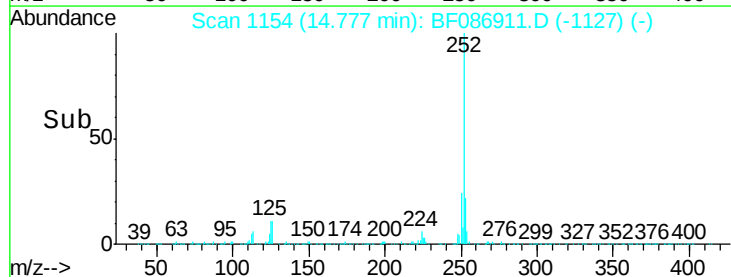
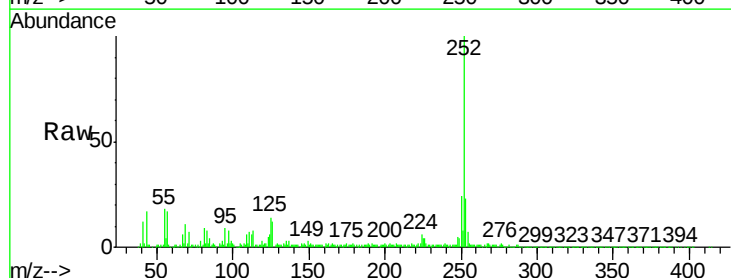
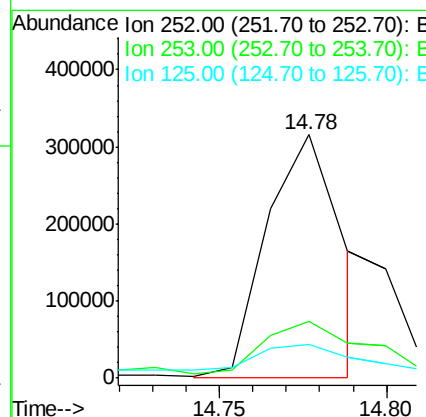
Manual Integrations
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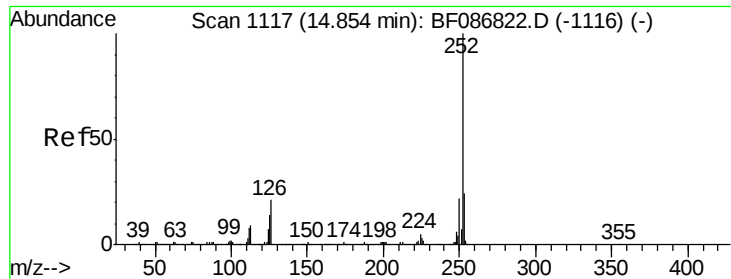
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#87
Benzo(b)fluoranthene
Concen: 35.10 ng m
RT: 14.78 min Scan# 1154
Delta R.T. 0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.6
125	13.6	11.4	17.0





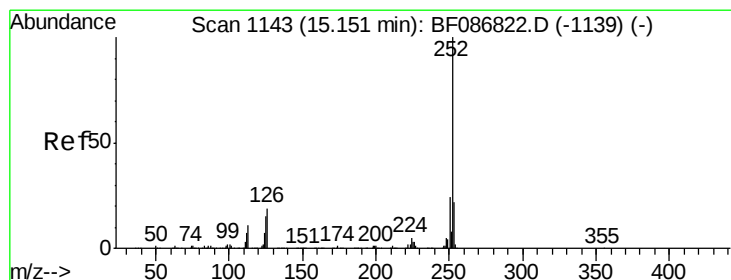
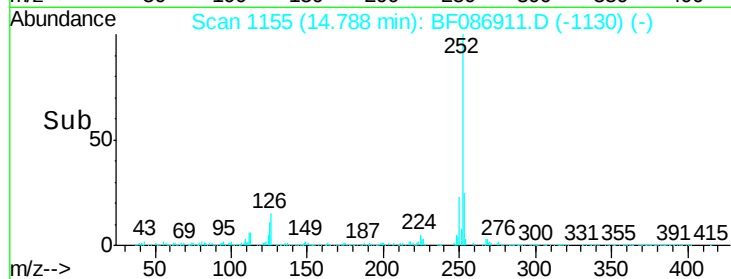
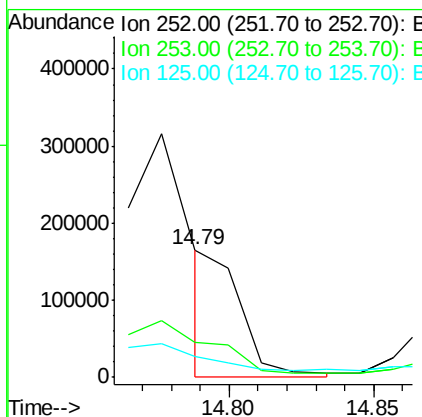
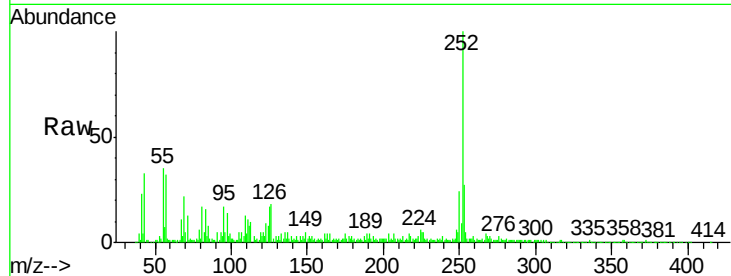
#88
Benzo(k)fluoranthene
Concen: 10.43 ng m
RT: 14.79 min Scan# 1155
Delta R.T. -0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)

Tgt Ion	Ratio	Lower	Upper
252	100		
253	27.0	17.8	26.6#
125	16.7	9.1	13.7#

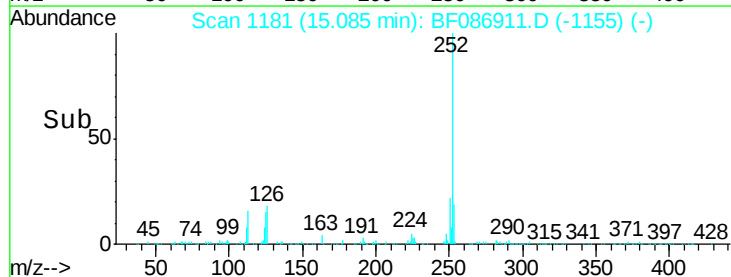
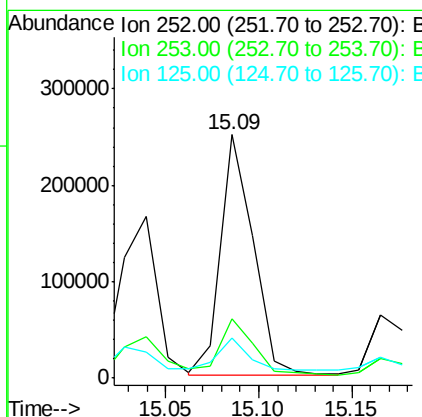
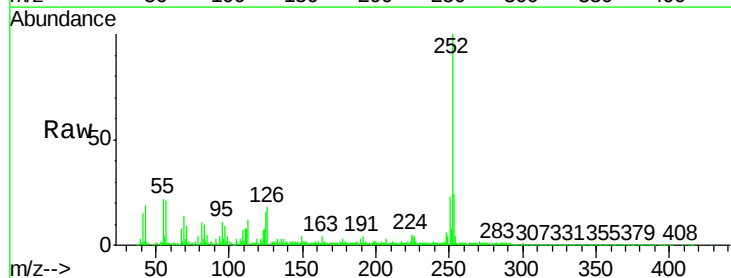
Manual Integrations
APPROVED

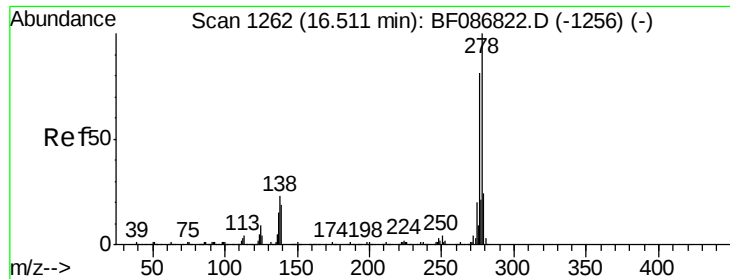
sohil
5/12/2016 9:09:06 AM



#89
Benzo(a)pyrene
Concen: 25.53 ng
RT: 15.09 min Scan# 1181
Delta R.T. -0.00 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.2	25.8
125	16.3	9.0	13.6#





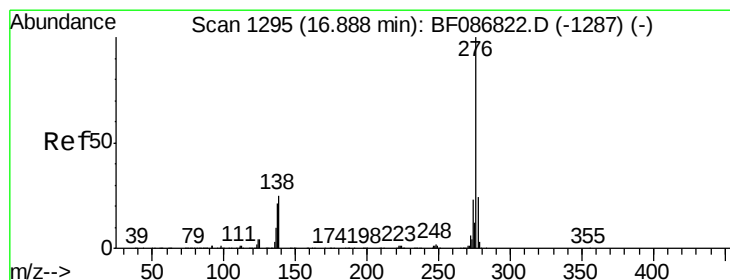
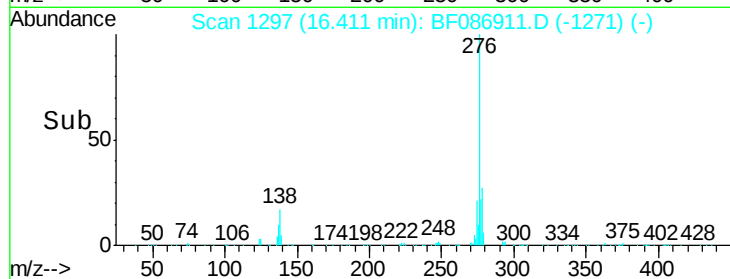
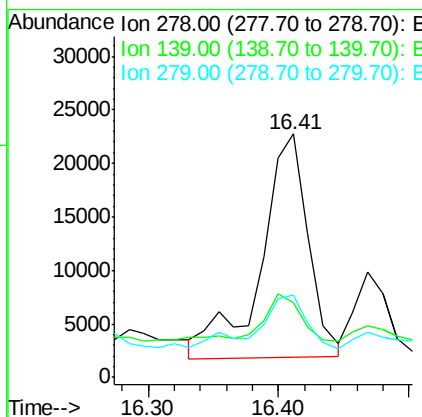
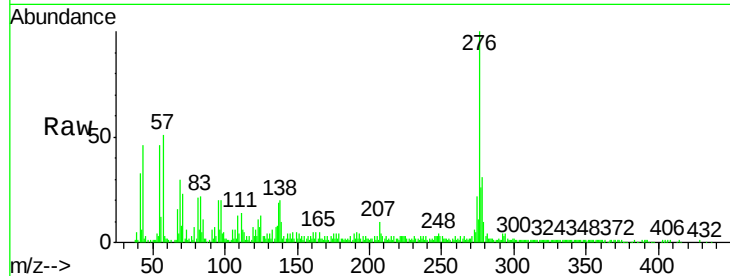
#90
Dibenzo(a,h)anthracene
Concen: 5.24 ng
RT: 16.41 min Scan# 1297
Delta R.T. -0.00 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)

Tgt Ion	Ratio	Lower	Upper
278	100		
139	30.8	16.6	24.8#
279	33.7	19.6	29.4#

Manual Integrations
APPROVED

sohil
5/12/2016 9:09:06 AM



#91
Benzo(g,h,i)perylene
Concen: 15.13 ng
RT: 16.78 min Scan# 1329
Delta R.T. 0.01 min
Lab File: BF086911.D
Acq: 12 May 2016 2:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.6	29.4
138	25.2	23.6	35.4

