

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
 Data File : BF087076.D
 Acq On : 16 May 2016 12:47
 Operator : UM/SJ
 Sample : H2965-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

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

Manual Integrations
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Quant Time: May 17 11:50:28 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 01:04:49 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	182220	20.00	ng	0.00
21) Naphthalene-d8	7.90	136	721404	20.00	ng	0.00
38) Acenaphthene-d10	9.64	164	302552	20.00	ng	0.00
63) Phenanthrene-d10	11.12	188	453682	20.00	ng	0.00
75) Chrysene-d12	13.76	240	359991	20.00	ng	0.00
86) Perylene-d12	15.12	264	312975	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.20	112	1209862	112.44	ng	0.00
7) Phenol-d6	6.28	99	1755329	122.07	ng	0.00
23) Nitrobenzene-d5	7.19	82	1182432	82.30	ng	0.00
41) 2,4,6-Tribromophenol	10.43	330	277153	86.53	ng	-0.01
44) 2-Fluorobiphenyl	8.97	172	1390709	77.25	ng	-0.01
78) Terphenyl-d14	12.71	244	936702	55.21	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	7.92	128	286761	7.94	ng	99
32) Benzoic acid	7.68	122	16082	2.47	ng	# 68
48) Acenaphthylene	9.51	152	60060	2.17	ng	98
49) Dimethylphthalate	9.37	163	149370	6.47	ng	# 99
51) Acenaphthene	9.68	154	139650	8.10	ng	97
54) Dibenzofuran	9.85	168	102864	4.65	ng	# 96
57) Fluorene	10.18	166	69963	3.70	ng	# 96
65) n-Nitrosodiphenylamine	10.31	169	32190	2.31	ng	90
70) Phenanthrene	11.14	178	752010	31.06	ng	100
71) Anthracene	11.20	178	252562	10.20	ng	99
72) Carbazole	11.36	167	65153	3.06	ng	96
74) Fluoranthene	12.33	202	1154209	46.35	ng	98
77) Pvrene	12.56	202	1154534	41.89	ng	99
80) Benzo(a)anthracene	13.75	228	625036	30.93	ng	97
82) Chrysene	13.78	228	584003m	28.41	ng	
83) Bis(2-ethylhexyl)phthalate	13.75	149	53962	3.85	ng	100
85) Indeno(1,2,3-cd)pvrene	16.38	276	239898	14.03	ng	93
87) Benzo(b)fluoranthene	14.75	252	637922m	31.36	ng	
88) Benzo(k)fluoranthene	14.77	252	235547m	14.14	ng	
89) Benzo(a)pvrene	15.07	252	453252	25.83	ng	97
90) Dibenzo(a,h)anthracene	16.38	278	76786	5.19	ng	# 84
91) Benzo(g,h,i)perylene	16.75	276	229395	15.27	ng	94

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

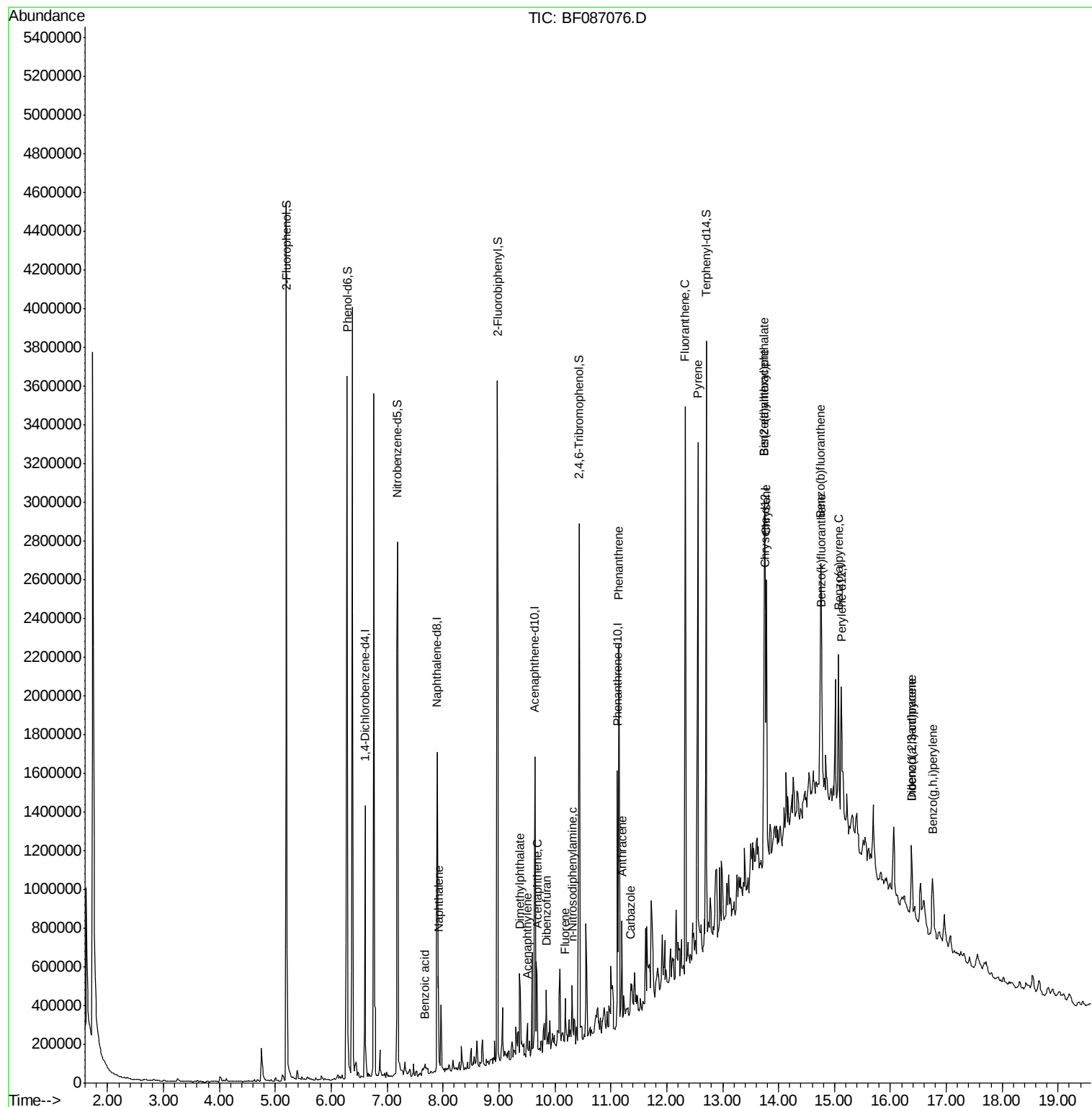
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051616\
Data File : BF087076.D
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ALS Vial : 3 Sample Multiplier: 1

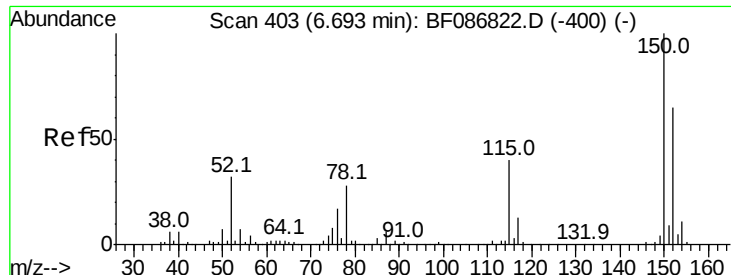
Instrument :
BNA_F
ClientSampleId :
E-13(5.5-6)

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Quant Time: May 17 11:50:28 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 17 01:04:49 2016
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#1

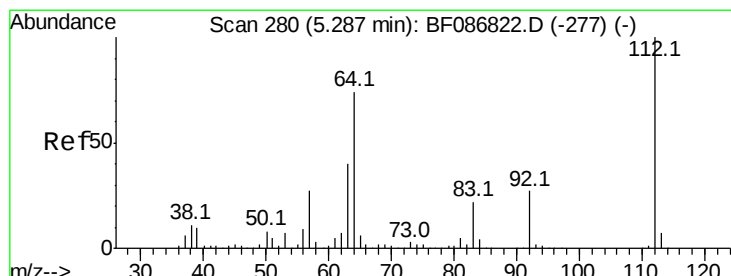
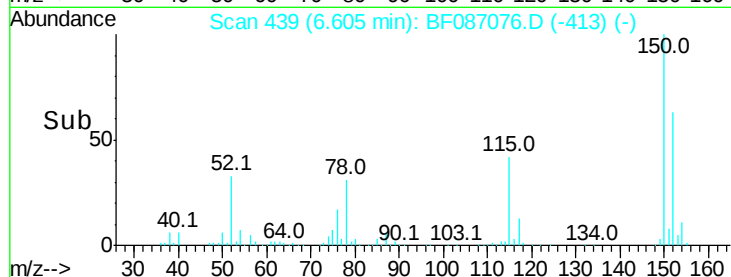
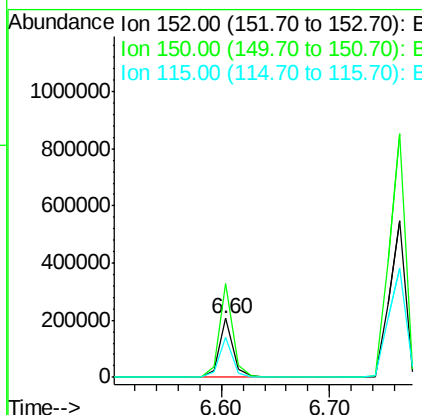
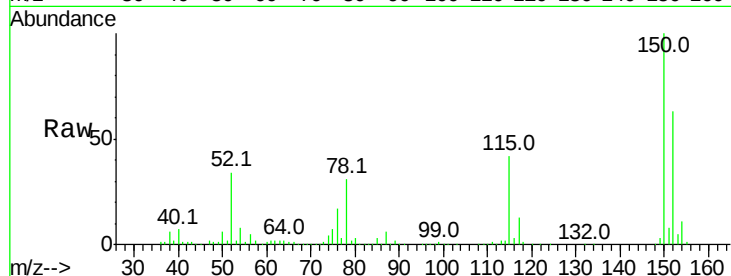
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.60 min Scan# 439
Delta R.T. 0.00 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.8	125.8	188.6
115	67.3	51.5	77.3

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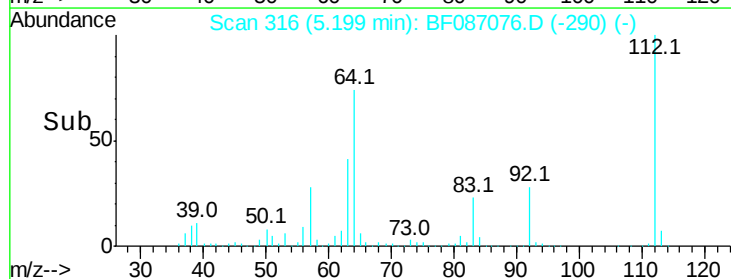
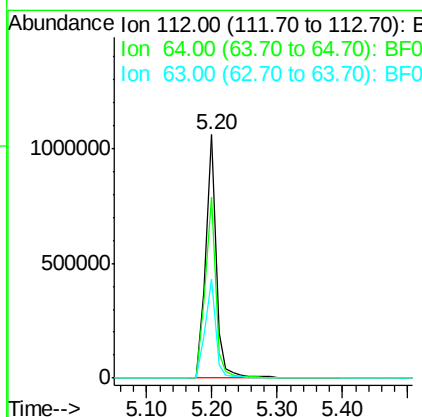
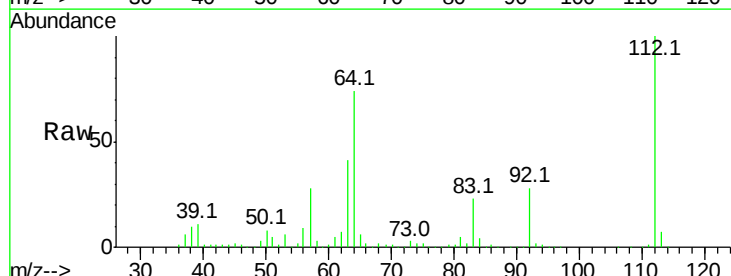
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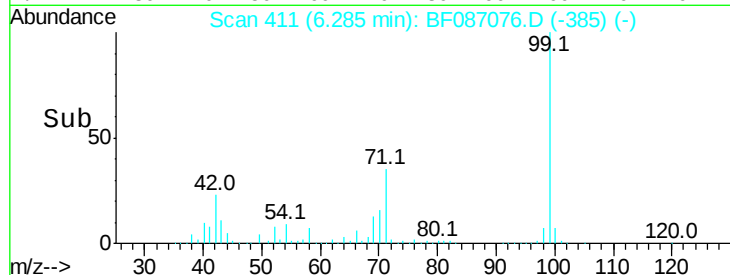
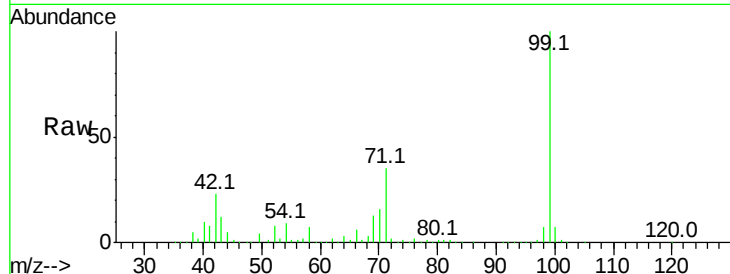
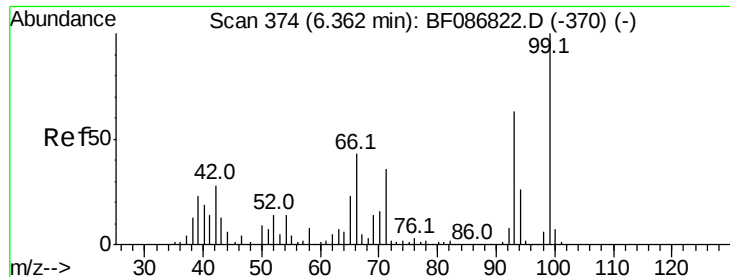


#5

2-Fluorophenol
Concen: 112.44 ng
RT: 5.20 min Scan# 316
Delta R.T. 0.00 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	74.5	52.1	78.1
63	40.8	25.7	38.5





#7

Phenol-d6

Concen: 122.07 ng

RT: 6.28 min Scan# 411

Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Tot Ion: 99 Resp: 1755329

Ion Ratio Lower Upper

99 100

42 23.3 13.6 20.4#

71 34.9 24.6 36.8

Instrument :

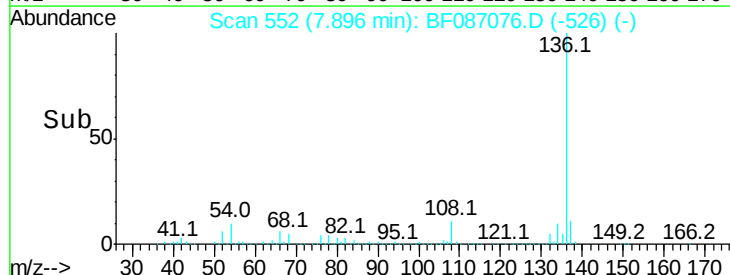
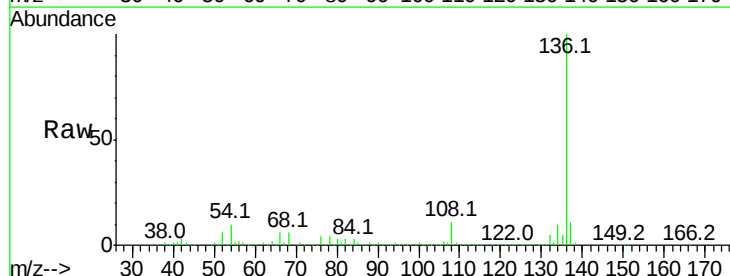
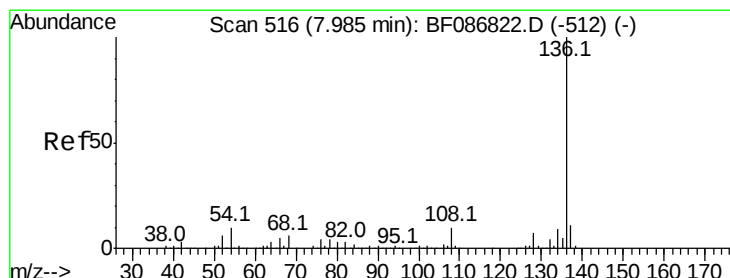
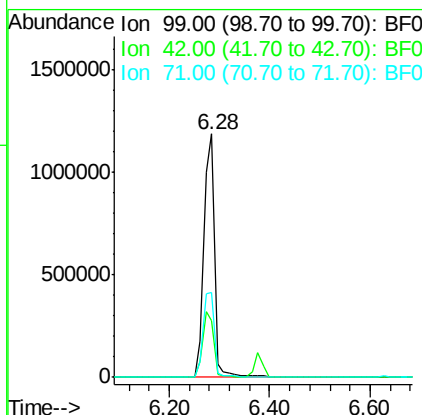
BNA_F

ClientSampleId :

E-13(5.5-6)

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.90 min Scan# 552

Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Tgt Ion:136 Resp: 721404

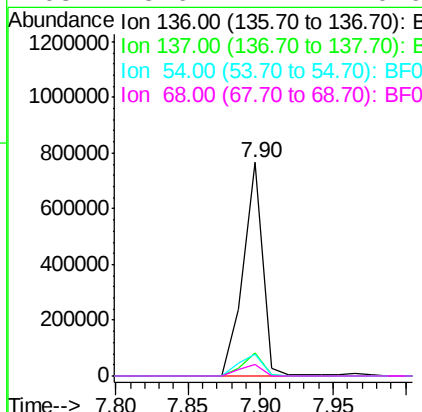
Ion Ratio Lower Upper

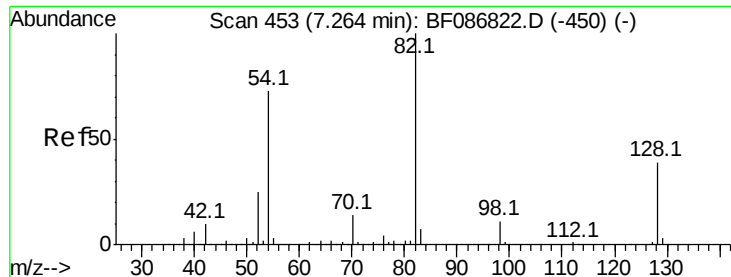
136 100

137 11.0 8.8 13.2

54 10.1 5.0 7.4#

68 5.6 4.4 6.6





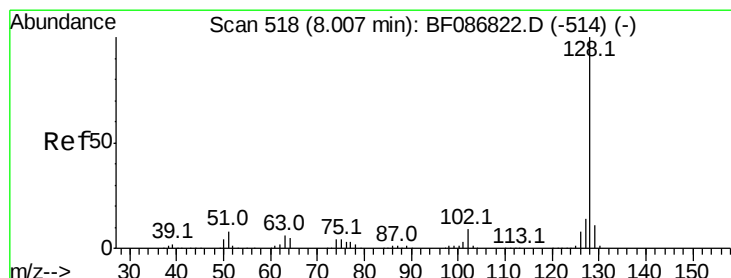
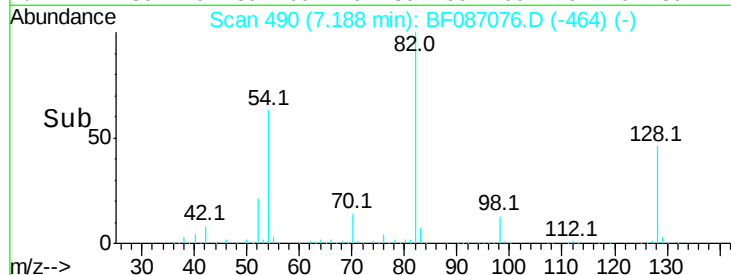
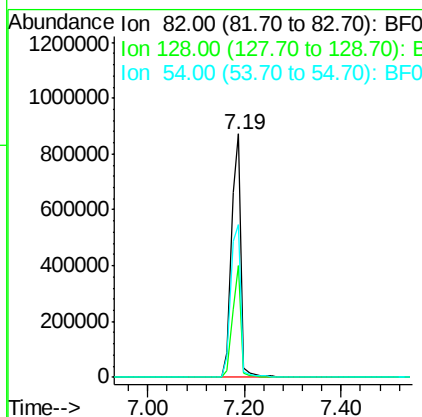
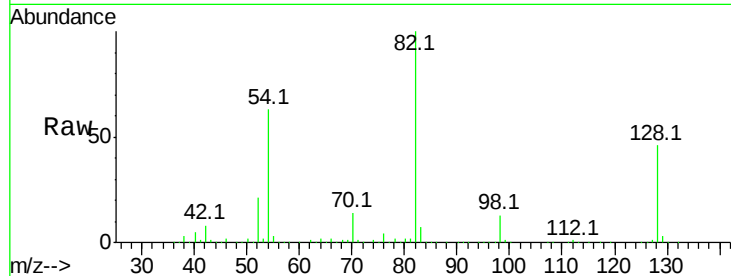
#23
Nitrobenzene-d5
Concen: 82.30 ng
RT: 7.19 min Scan# 490
Delta R.T. 0.00 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.7	40.6	61.0
54	62.5	38.1	57.1

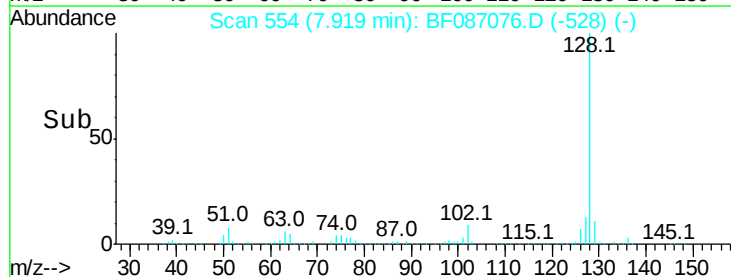
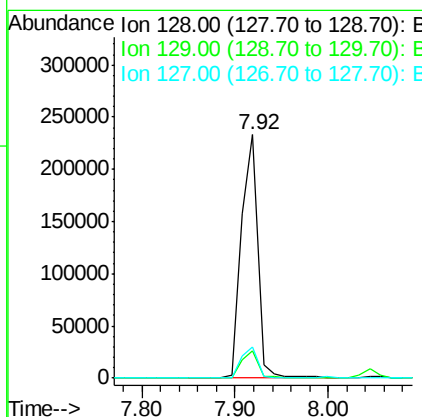
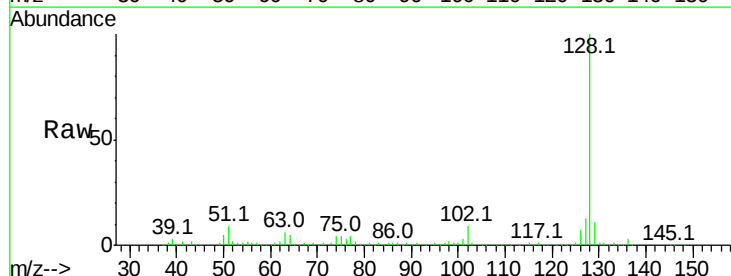
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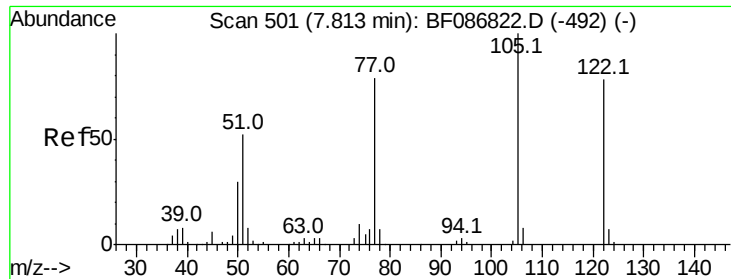
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#31
Naphthalene
Concen: 7.94 ng
RT: 7.92 min Scan# 554
Delta R.T. 0.00 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.6	13.0
127	13.0	10.8	16.2





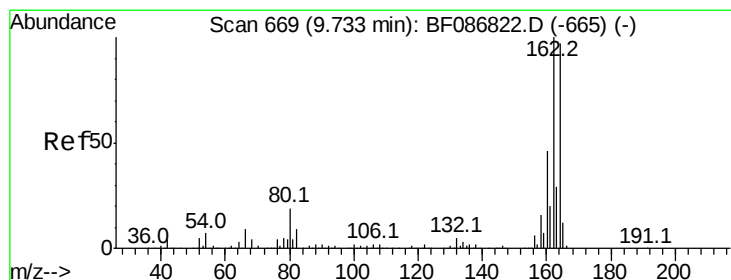
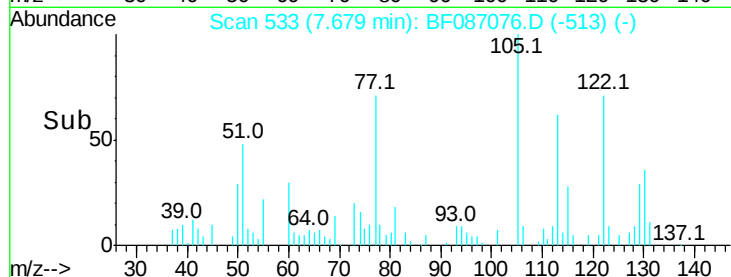
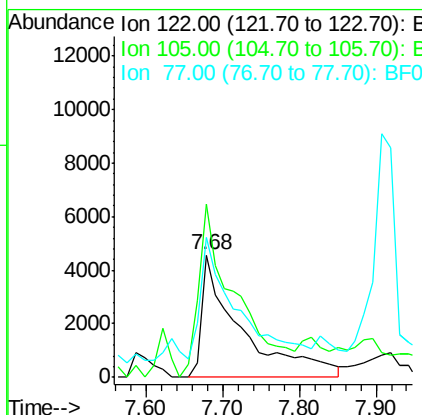
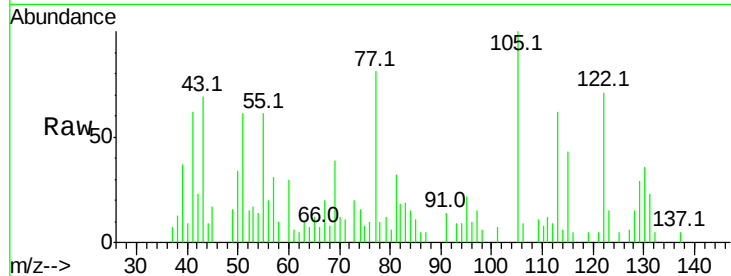
#32
Benzoic acid
Concen: 2.47 ng
RT: 7.68 min Scan# 533
Delta R.T. -0.07 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Lower	Upper
122	100		
105	141.2	92.6	132.6#
77	114.4	60.0	100.0#

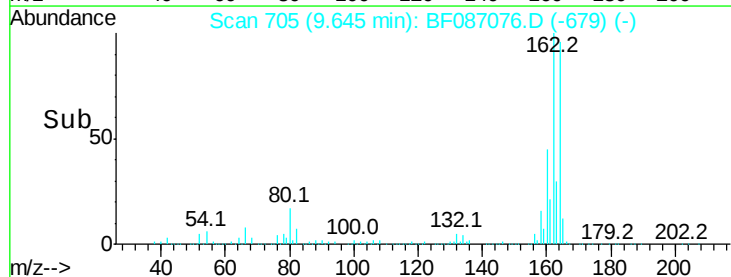
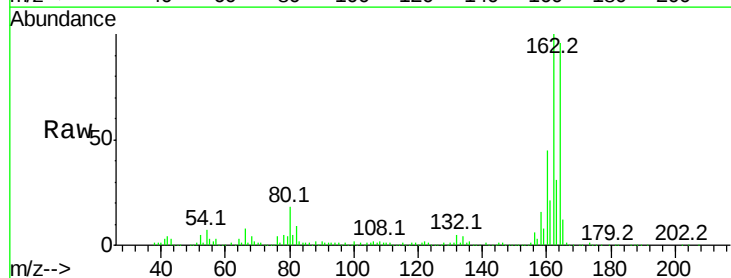
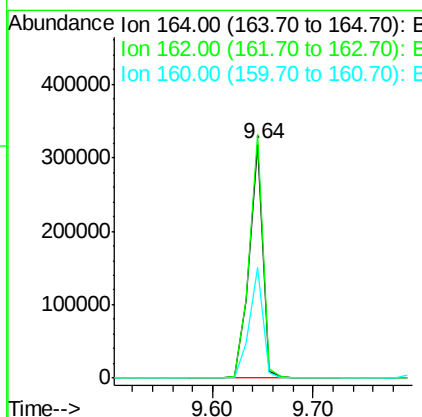
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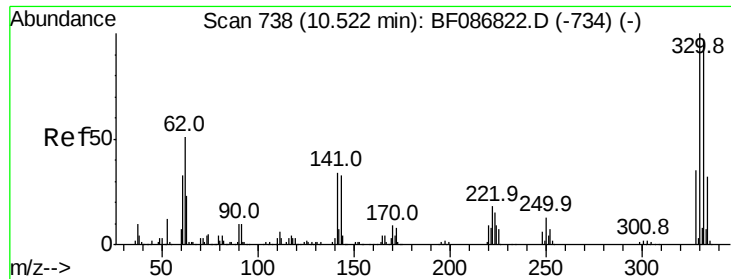
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.64 min Scan# 705
Delta R.T. 0.00 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.3	82.8	124.2
160	47.4	36.9	55.3





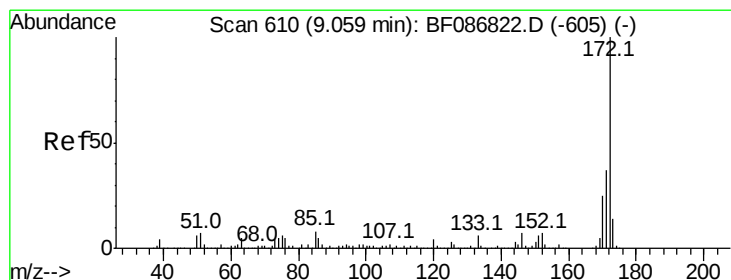
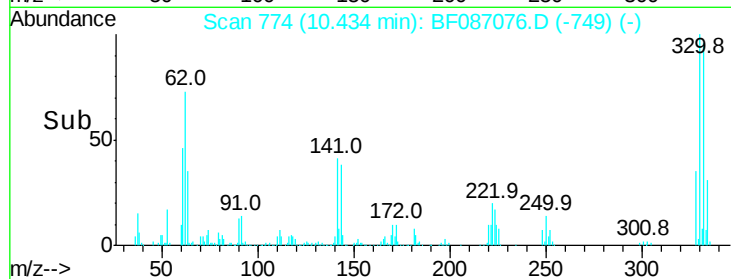
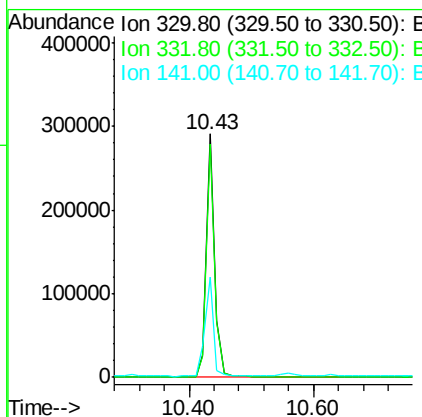
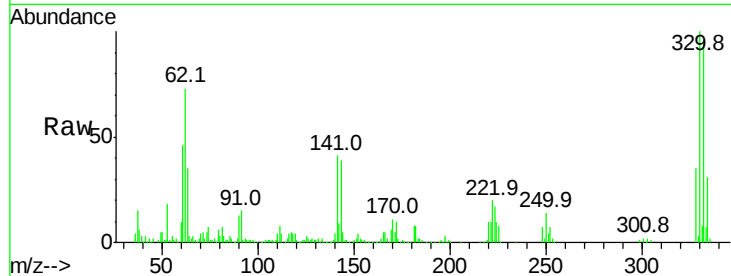
#41
 2,4,6-Tribromophenol
 Concen: 86.53 ng
 RT: 10.43 min Scan# 774
 Delta R.T. -0.01 min
 Lab File: BF087076.D
 Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Resp	Lower	Upper
330	100	277153		
332	96.4	79.0	118.4	
141	42.4	31.2	46.8	

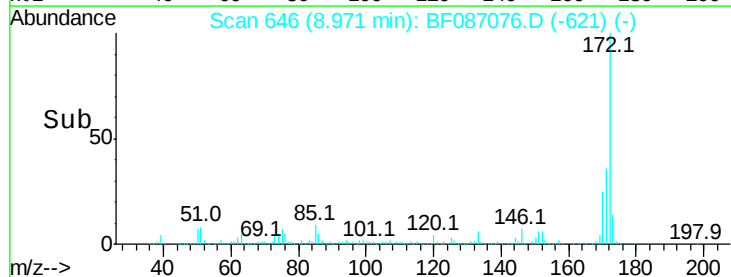
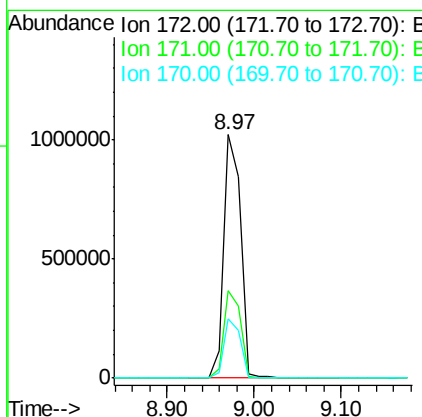
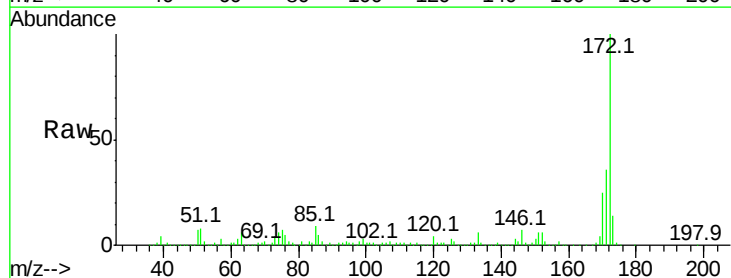
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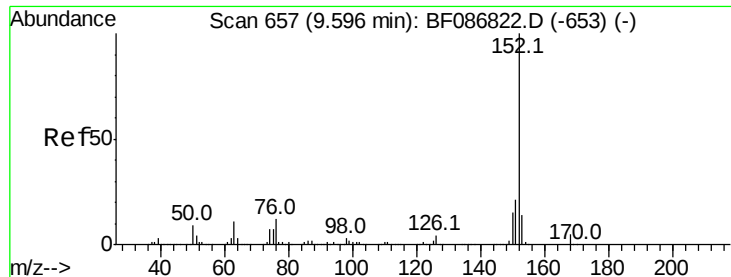
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#44
 2-Fluorobiphenyl
 Concen: 77.25 ng
 RT: 8.97 min Scan# 646
 Delta R.T. -0.01 min
 Lab File: BF087076.D
 Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1390709		
171	36.1	29.0	43.6	
170	24.5	19.8	29.8	





#48

Acenaphthylene

Concen: 2.17 ng

RT: 9.51 min Scan# 693

Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Instrument :

BNA_F

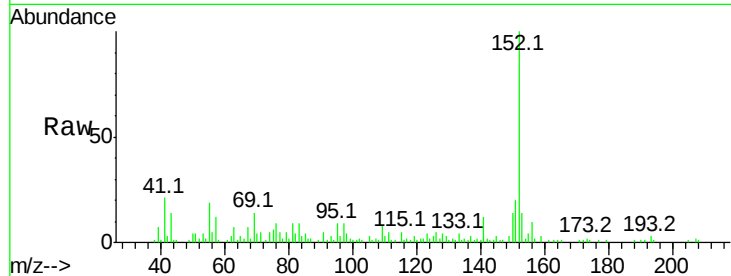
ClientSampleId :

E-13(5.5-6)

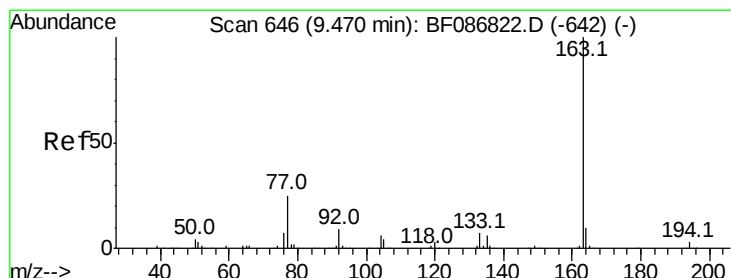
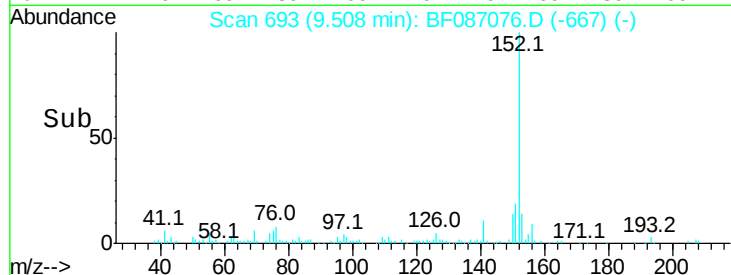
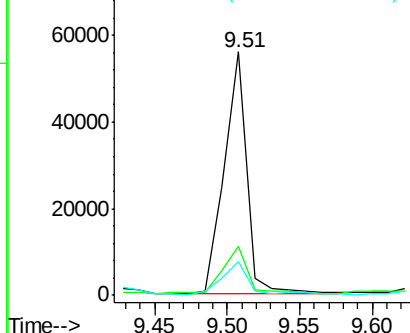
Tot Ion:	152	Resp:	60060
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.8	25.2
153	14.1	10.9	16.3

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



#49

Dimethylphthalate

Concen: 6.47 ng

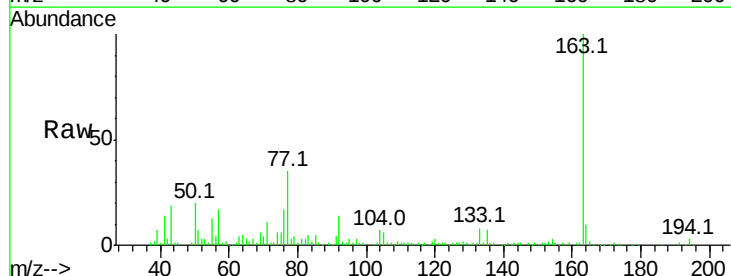
RT: 9.37 min Scan# 681

Delta R.T. -0.02 min

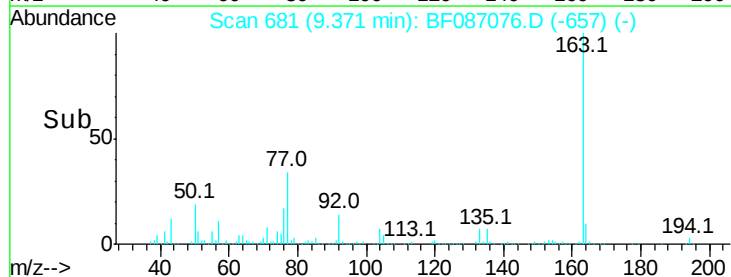
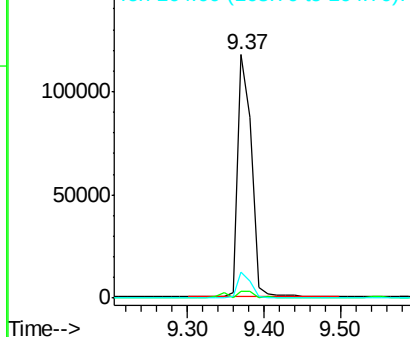
Lab File: BF087076.D

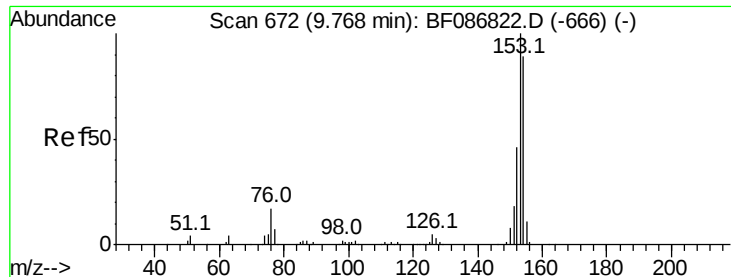
Acq: 16 May 2016 12:47

Tgt Ion:	163	Resp:	149370
Ion Ratio	Lower	Upper	
163	100		
194	2.6	2.6	4.0#
164	10.4	8.2	12.4



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 8.10 ng

RT: 9.68 min Scan# 708

Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Instrument :

BNA_F

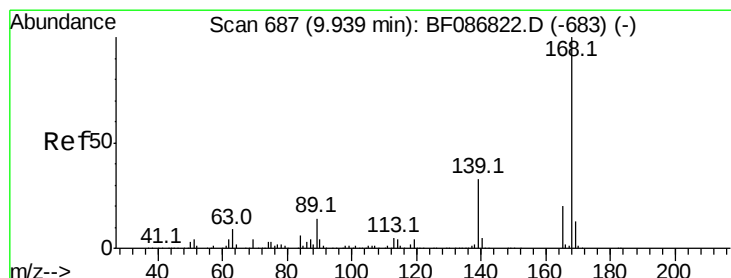
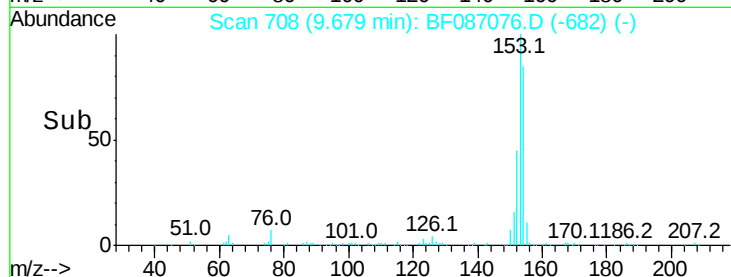
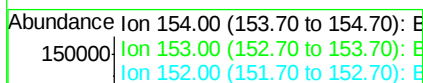
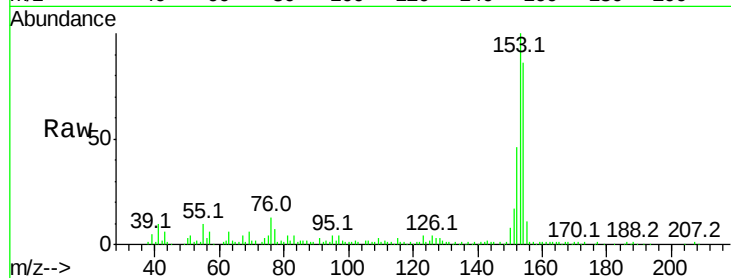
ClientSampleId :

E-13(5.5-6)

Tot Ion:	154	Resp:	139650
Ion Ratio	Lower	Upper	
154	100		
153	116.3	89.8	134.6
152	53.0	43.4	65.0

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#54

Dibenzofuran

Concen: 4.65 ng

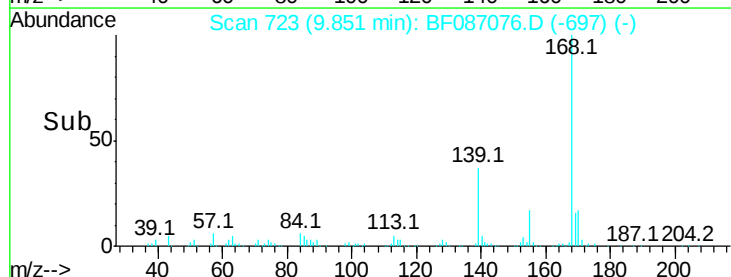
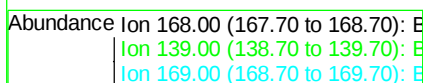
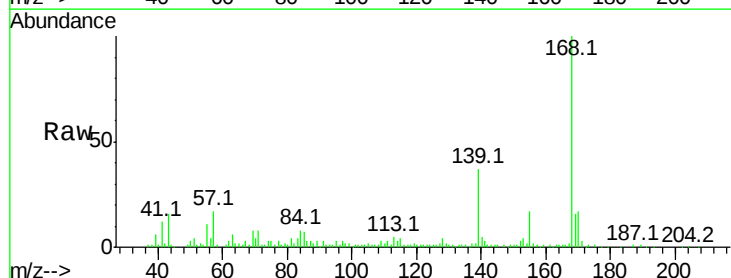
RT: 9.85 min Scan# 723

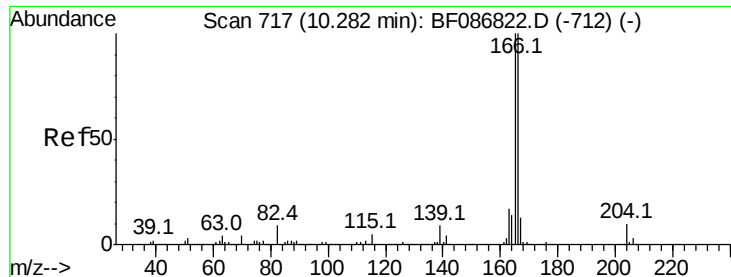
Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Tgt Ion:	168	Resp:	102864
Ion Ratio	Lower	Upper	
168	100		
139	37.5	31.4	47.0
169	16.4	10.7	16.1#





#57

Fluorene

Concen: 3.70 ng

RT: 10.18 min Scan# 752

Delta R.T. -0.01 min

Lab File: BF087076.D

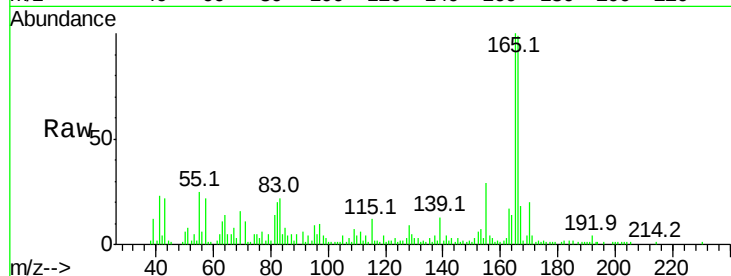
Acq: 16 May 2016 12:47

Instrument :

BNA_F

ClientSampleId :

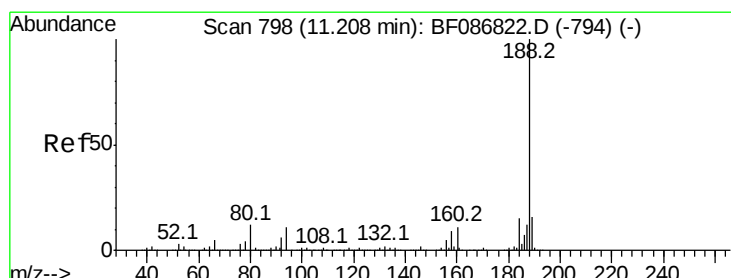
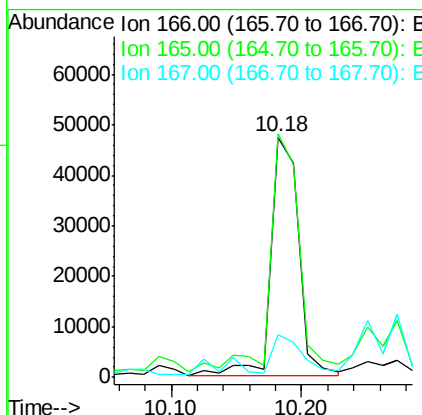
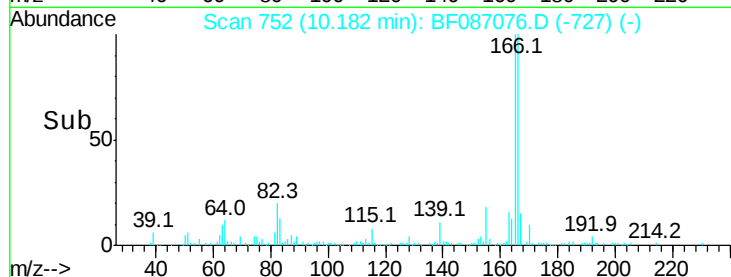
E-13(5.5-6)



Tot Ion:	166	Resp:	69963
Ion Ratio	Lower	Upper	
166	100		
165	101.5	79.0	118.6
167	17.8	10.6	15.8#

Manual Integrations
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#63

Phenanthrene-d10

Concen: 20.00 ng

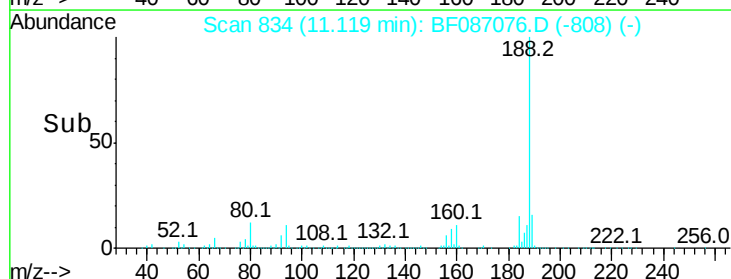
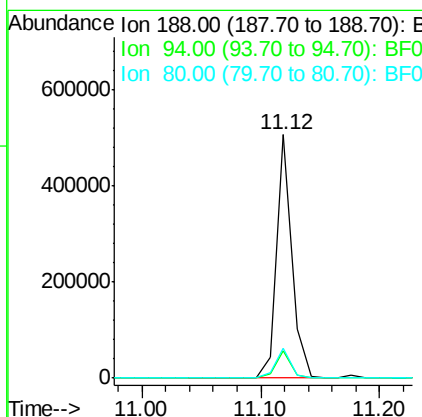
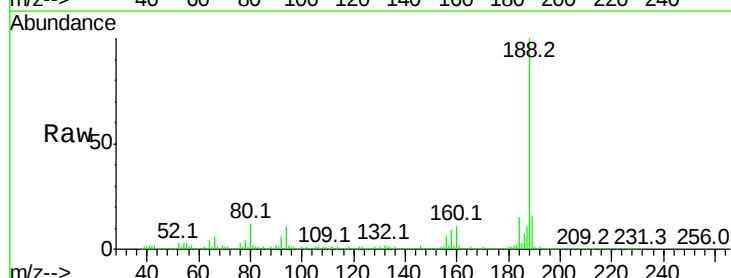
RT: 11.12 min Scan# 834

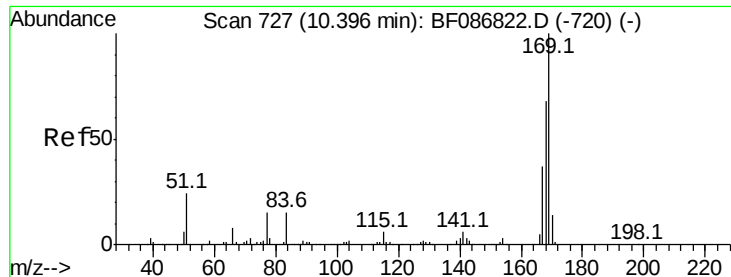
Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Tgt Ion:	188	Resp:	453682
Ion Ratio	Lower	Upper	
188	100		
94	11.3	6.8	10.2#
80	12.3	7.1	10.7#





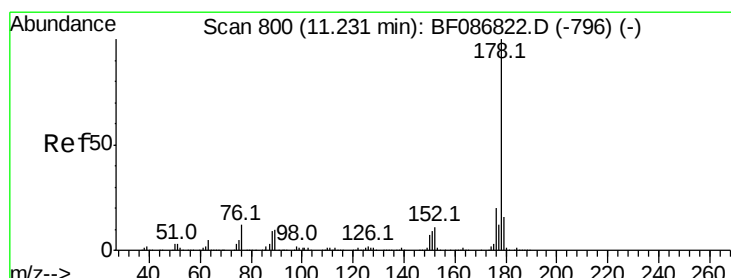
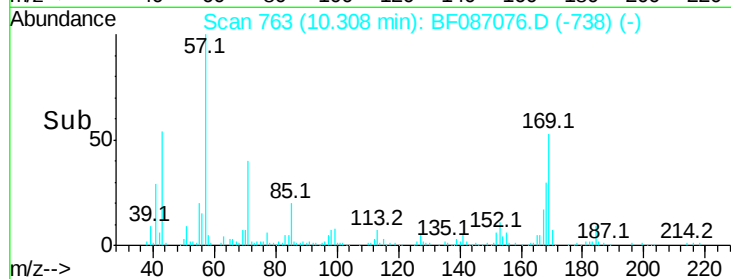
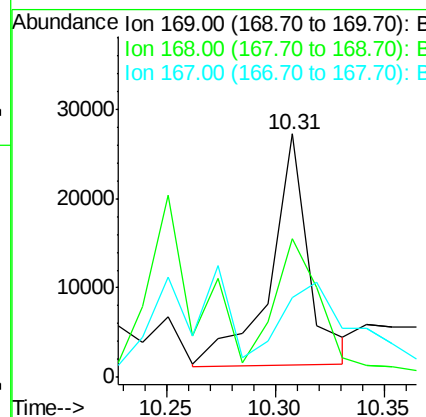
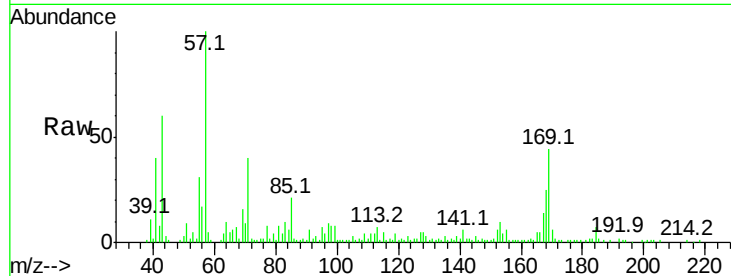
#65
n-Nitrosodiphenylamine
Concen: 2.31 ng
RT: 10.31 min Scan# 763
Delta R.T. -0.01 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Resp	Lower	Upper
169	100	32190		
168	57.1		53.8	80.6
167	32.9		29.5	44.3

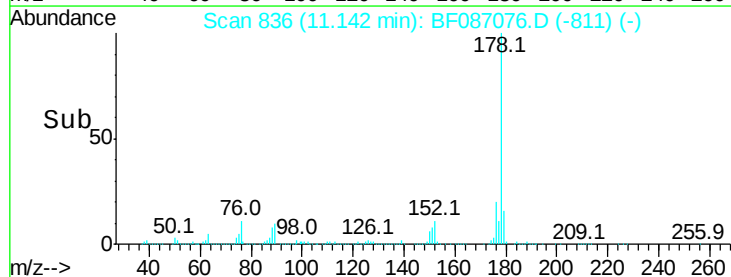
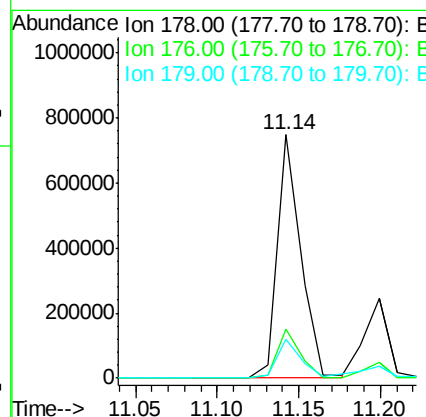
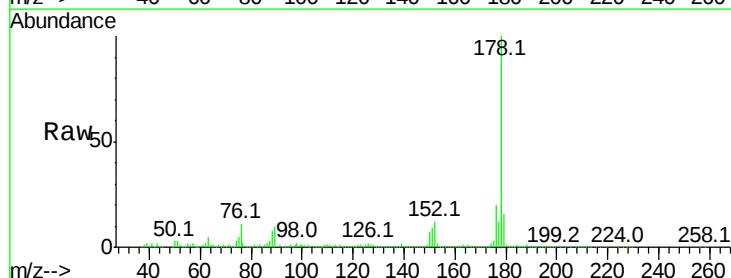
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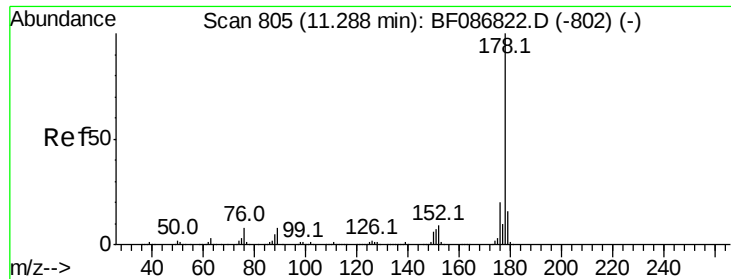
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#70
Phenanthrene
Concen: 31.06 ng
RT: 11.14 min Scan# 836
Delta R.T. -0.01 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	752010		
176	20.0		16.0	24.0
179	16.0		12.6	18.8





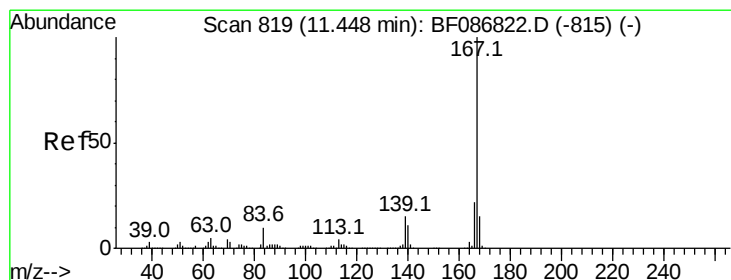
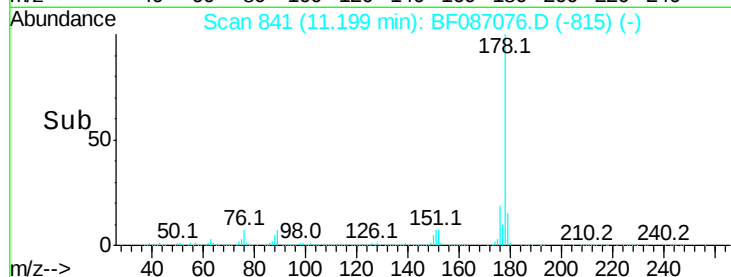
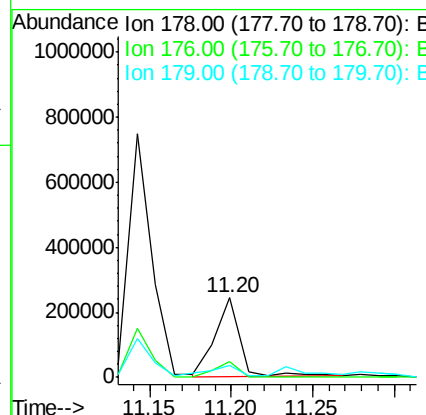
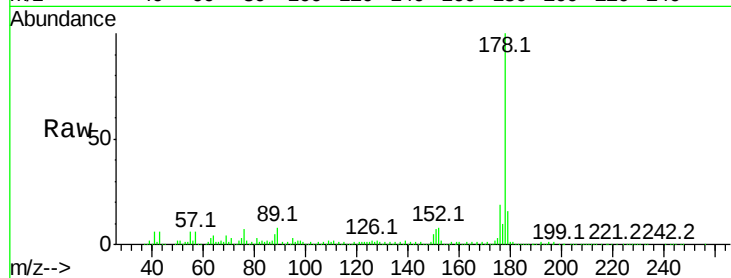
#71
 Anthracene
 Concen: 10.20 ng
 RT: 11.20 min Scan# 841
 Delta R.T. 0.00 min
 Lab File: BF087076.D
 Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.6	23.4
179	15.6	12.7	19.1

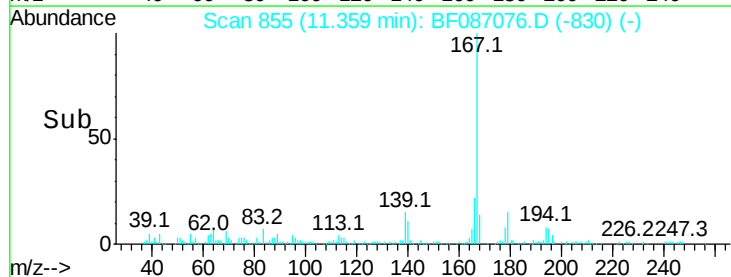
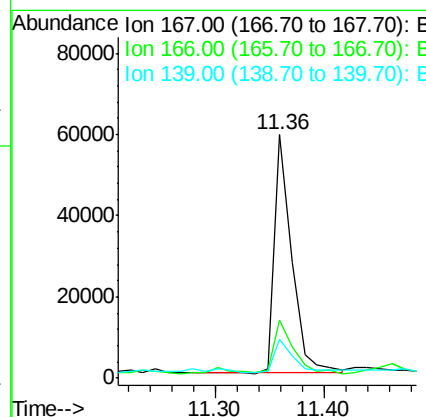
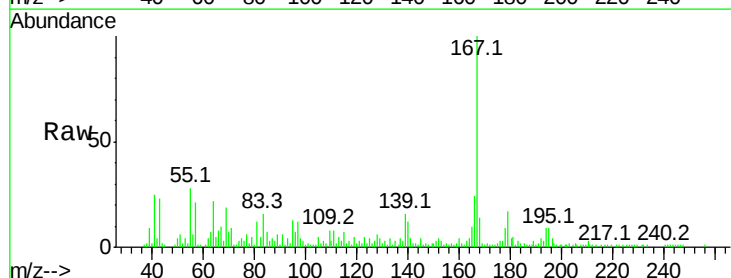
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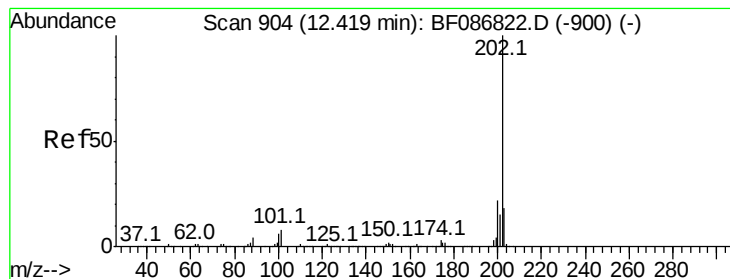
umangi
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#72
 Carbazole
 Concen: 3.06 ng
 RT: 11.36 min Scan# 855
 Delta R.T. -0.01 min
 Lab File: BF087076.D
 Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Lower	Upper
167	100		
166	23.6	17.7	26.5
139	16.1	10.8	16.2





#74

Fluoranthene

Concen: 46.35 ng

RT: 12.33 min Scan# 940

Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Instrument :

BNA_F

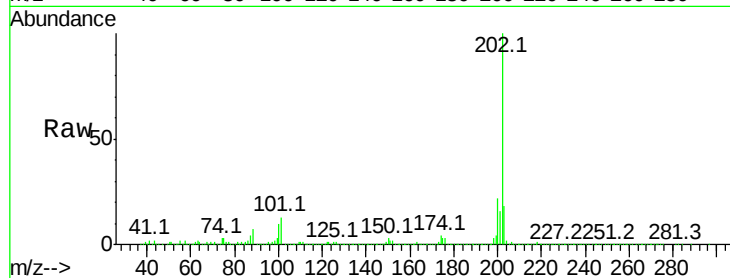
ClientSampleId :

E-13(5.5-6)

Tot Ion:	202	Resp:	1154209
Ion Ratio	Lower	Upper	
202	100		
101	13.5	0.0	35.4
203	18.3	0.0	38.1

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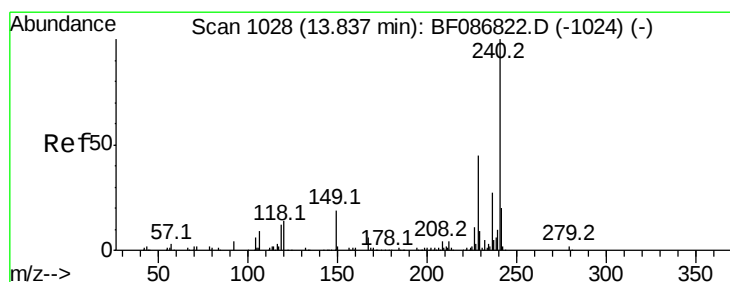
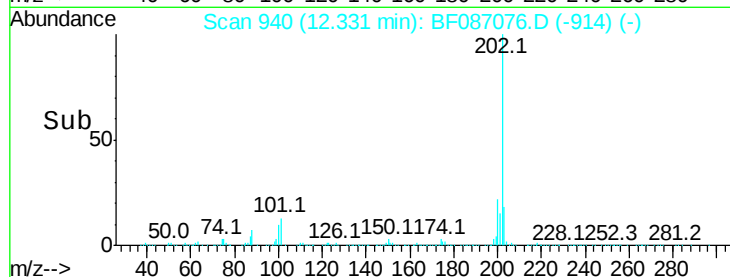
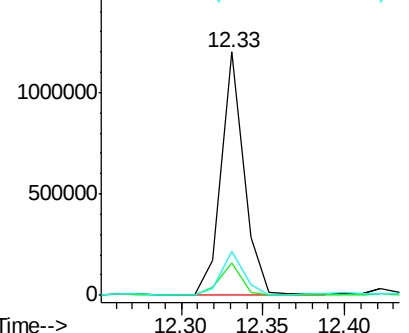
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Abundance Ion 202.00 (201.70 to 202.70): E

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: 13.76 min Scan# 1065

Delta R.T. 0.00 min

Lab File: BF087076.D

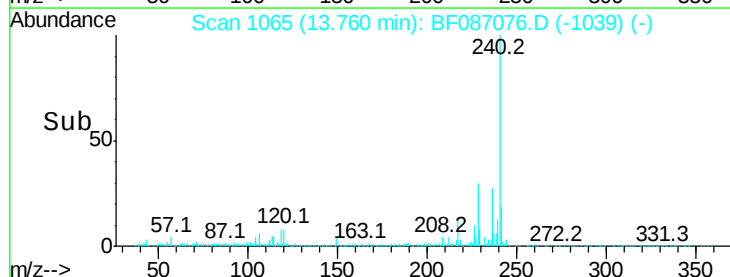
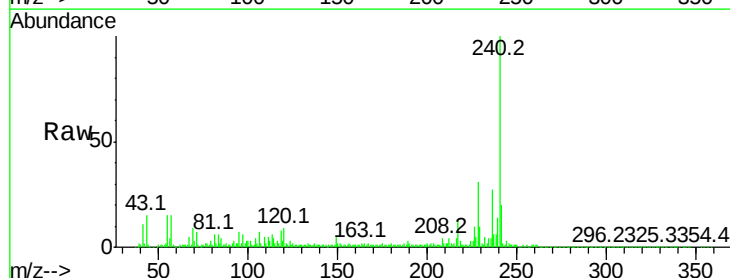
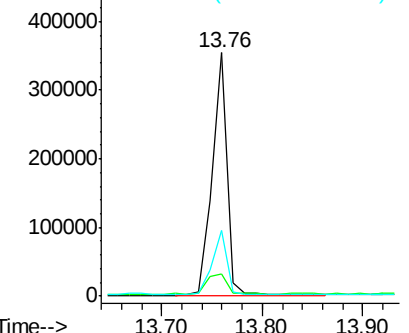
Acq: 16 May 2016 12:47

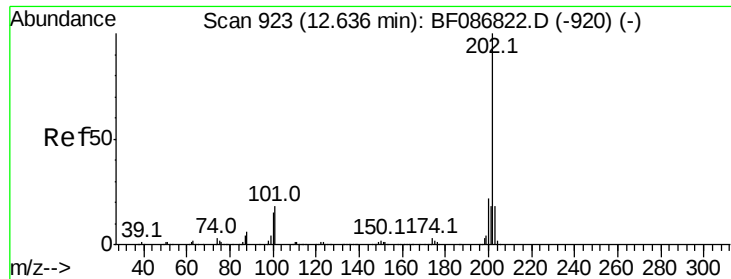
Tgt Ion:	240	Resp:	359991
Ion Ratio	Lower	Upper	
240	100		
120	9.2	11.2	16.8#
236	26.9	21.2	31.8

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

Pvrene

Concen: 41.89 ng

RT: 12.56 min Scan# 960

Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Instrument :

BNA_F

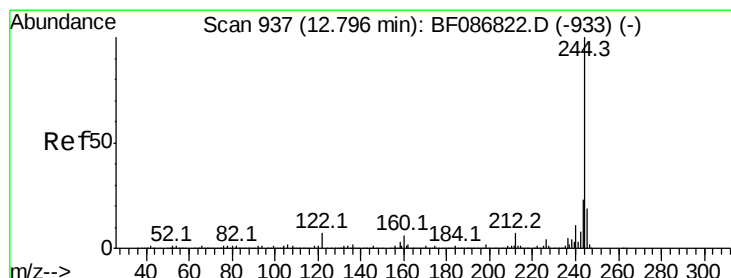
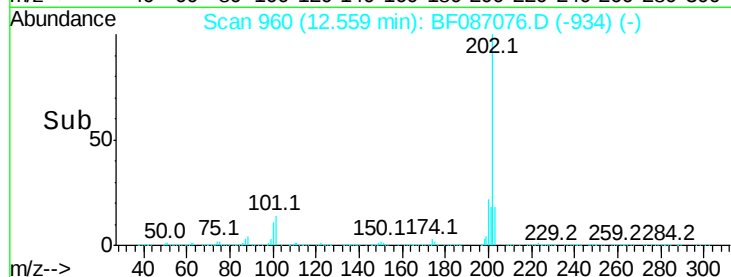
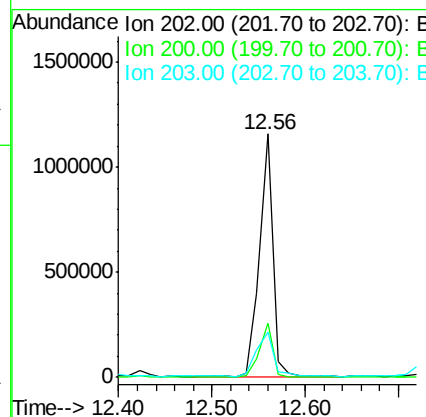
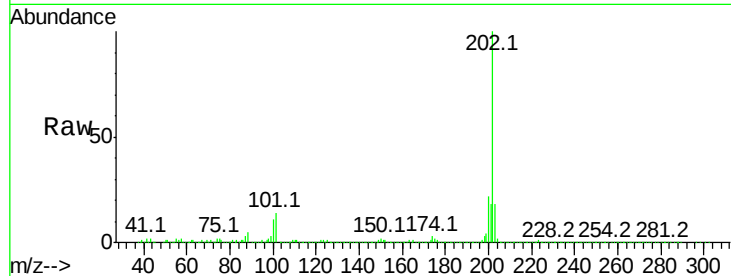
ClientSampleId :

E-13(5.5-6)

Tot Ion:	202	Resp:	1154534
Ion	Ratio	Lower	Upper
202	100		
200	22.4	17.7	26.5
203	18.3	14.2	21.4

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#78

Terphenyl-d14

Concen: 55.21 ng

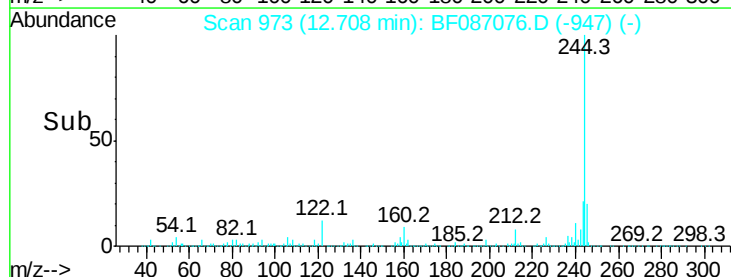
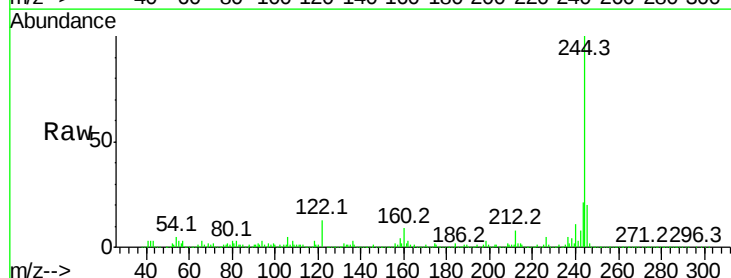
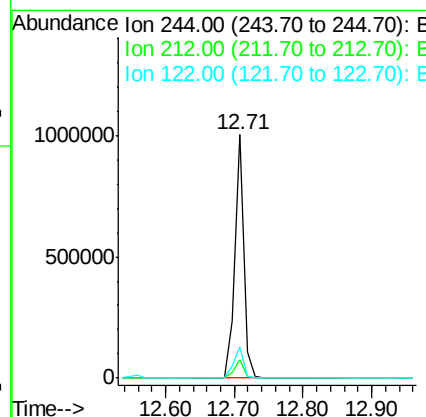
RT: 12.71 min Scan# 973

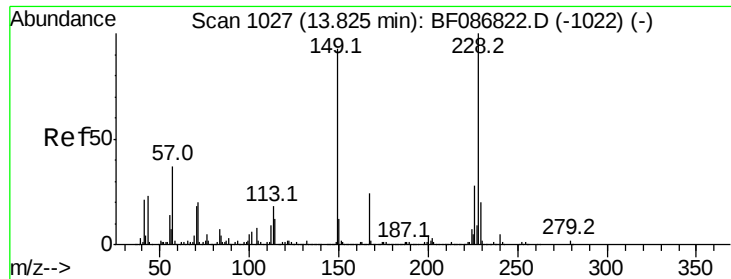
Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Tgt Ion:	244	Resp:	936702
Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.2	9.2
122	12.6	12.0	18.0





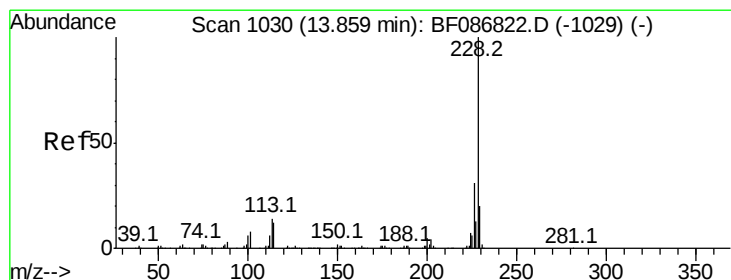
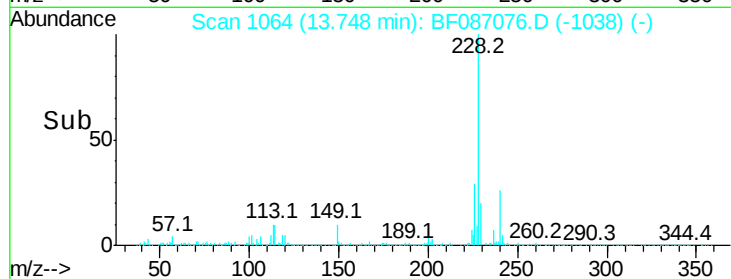
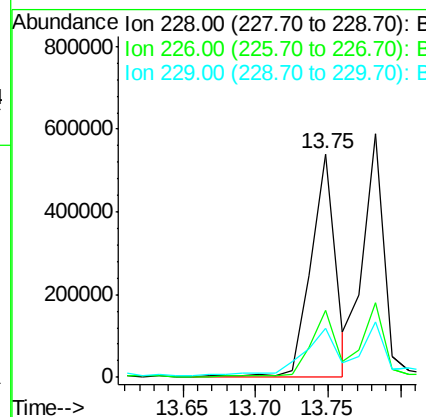
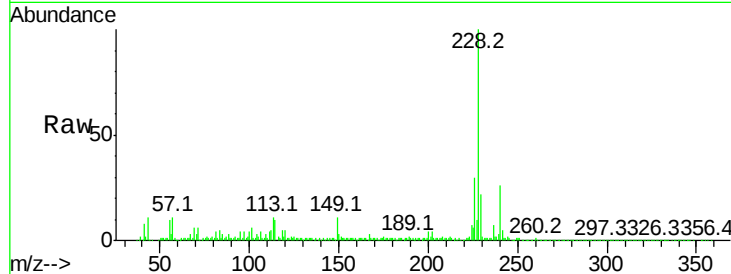
#80
Benzo(a)anthracene
Concen: 30.93 ng
RT: 13.75 min Scan# 1064
Delta R.T. 0.00 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.5	33.7
229	21.8	16.6	25.0

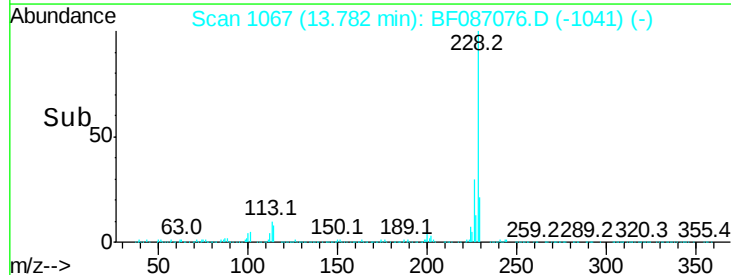
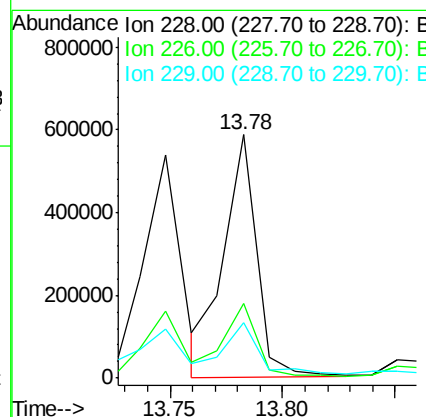
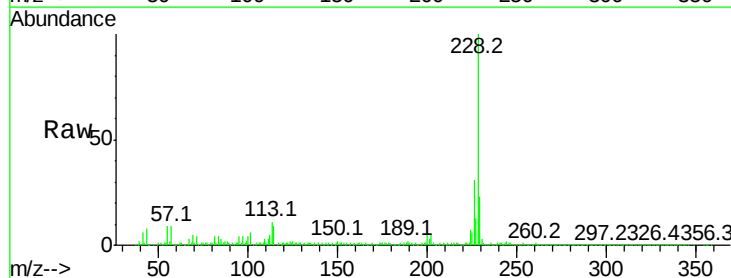
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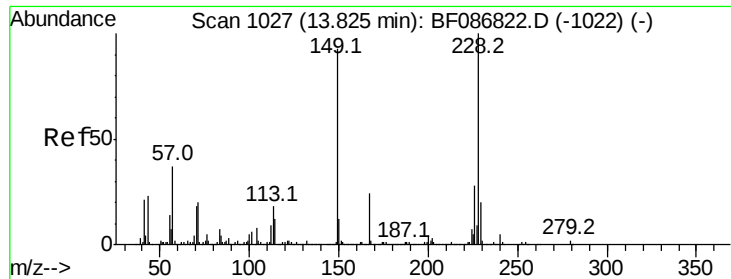
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#82
Chrysene
Concen: 28.41 ng m
RT: 13.78 min Scan# 1067
Delta R.T. 0.00 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	24.4	36.6
229	22.8	15.8	23.8





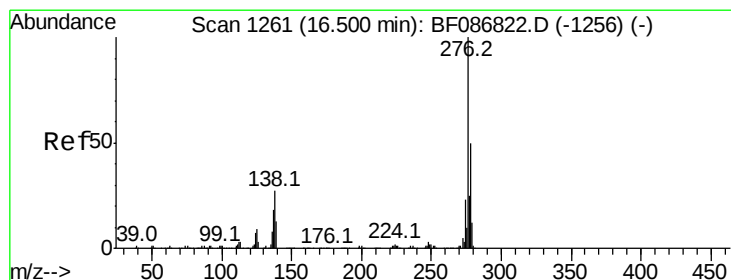
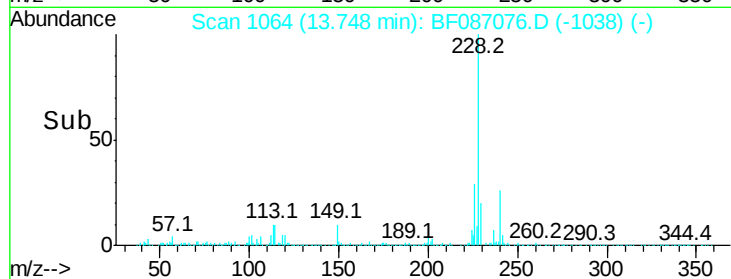
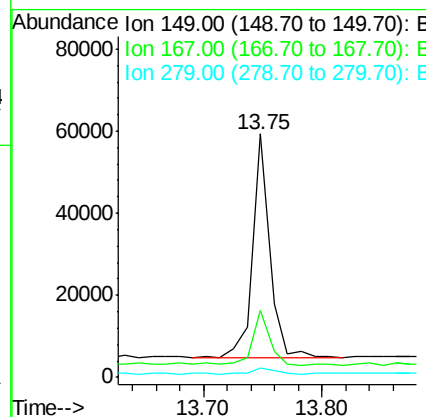
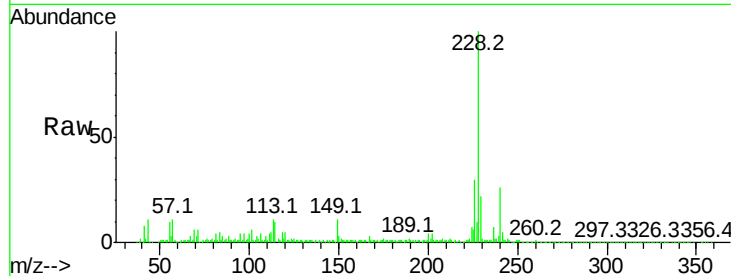
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.85 ng
 RT: 13.75 min Scan# 1064
 Delta R.T. 0.00 min
 Lab File: BF087076.D
 Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Lower	Upper
149	100		
167	27.3	21.8	32.6
279	3.6	2.6	4.0

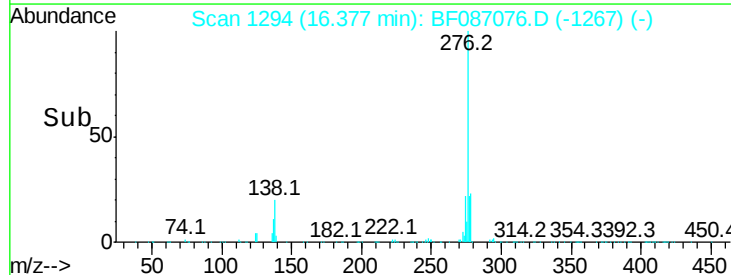
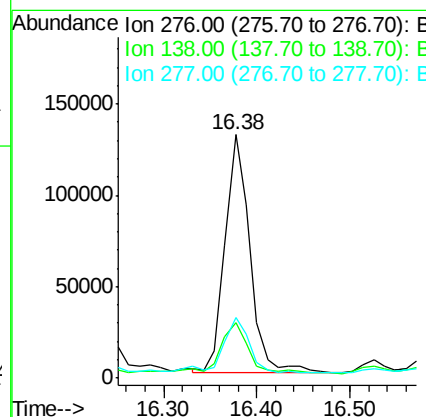
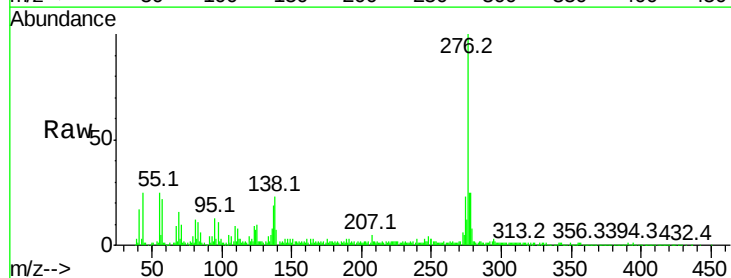
Manual Integrations
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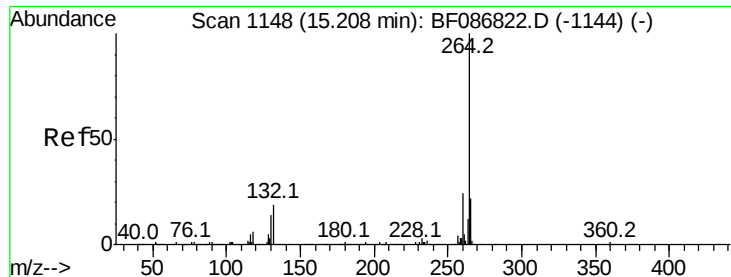
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#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.03 ng
 RT: 16.38 min Scan# 1294
 Delta R.T. 0.01 min
 Lab File: BF087076.D
 Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.9	25.6	38.4
277	24.8	20.5	30.7





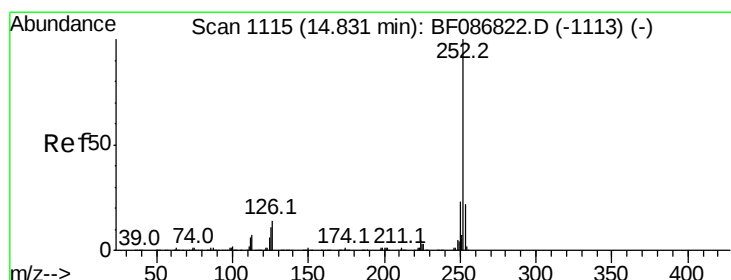
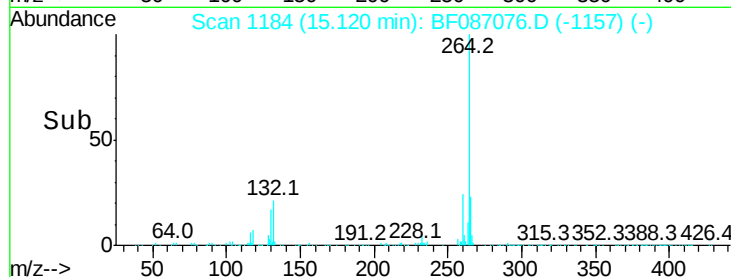
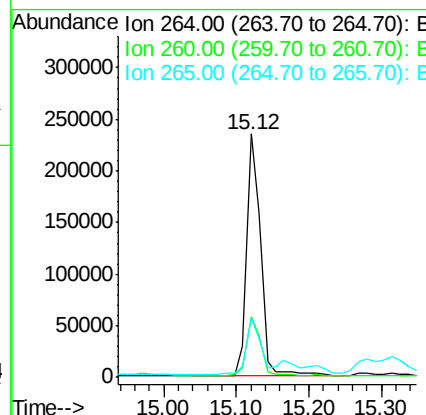
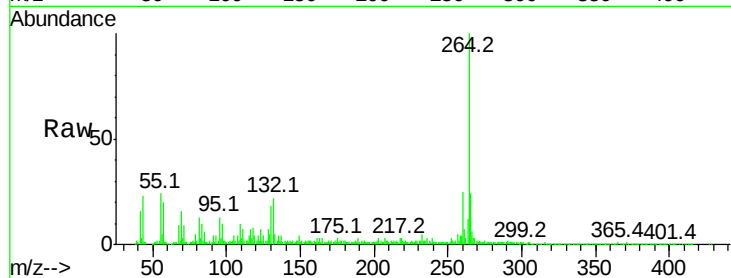
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.12 min Scan# 1184
Delta R.T. 0.01 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.5	29.3
265	24.1	17.3	25.9

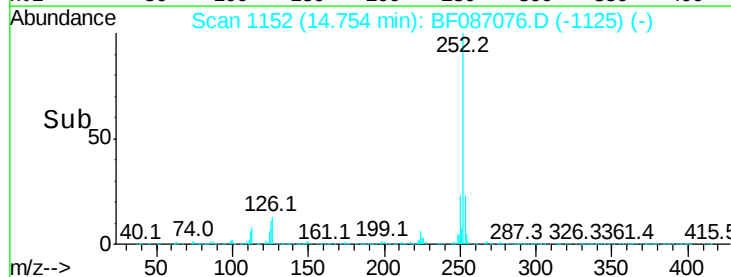
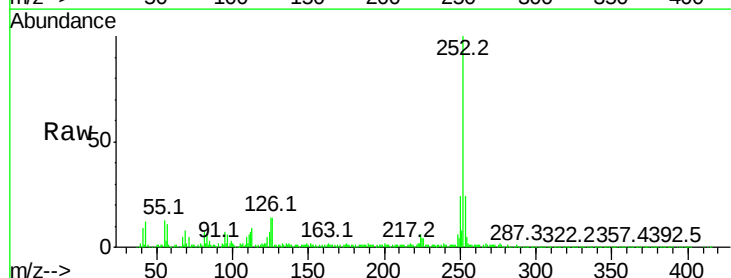
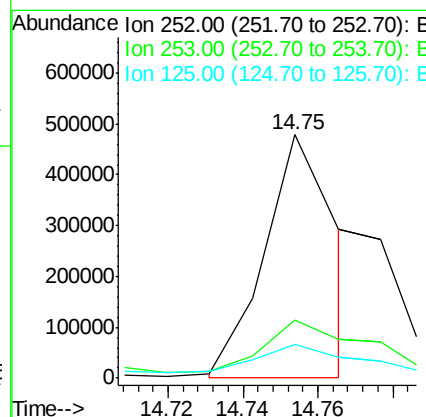
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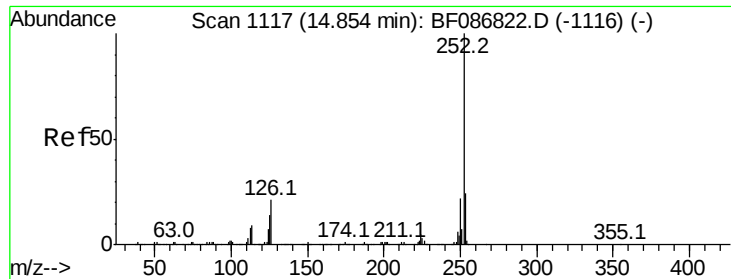
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#87
Benzo(b)fluoranthene
Concen: 31.36 ng m
RT: 14.75 min Scan# 1152
Delta R.T. 0.01 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.8	26.6
125	13.7	11.4	17.0





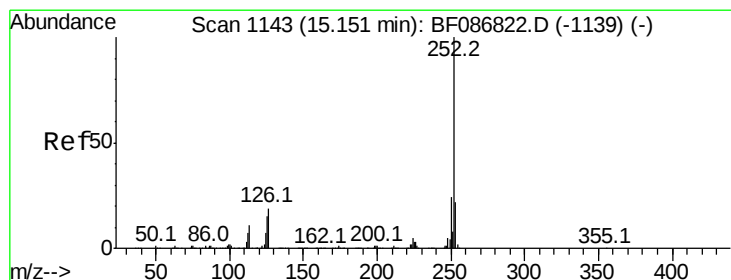
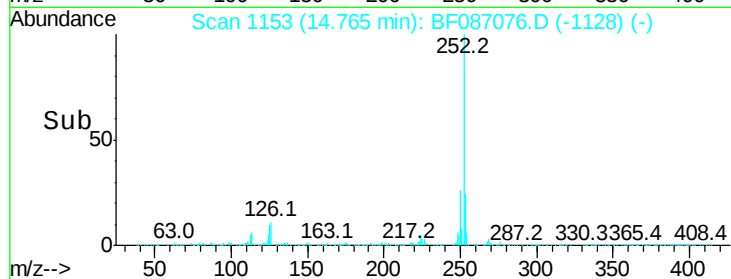
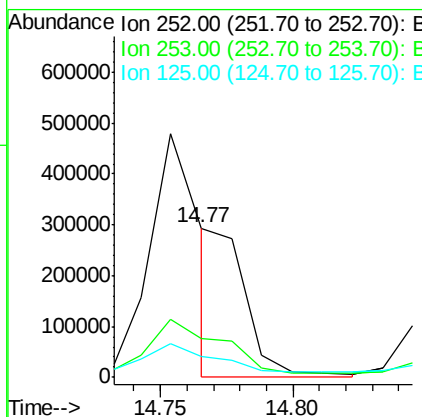
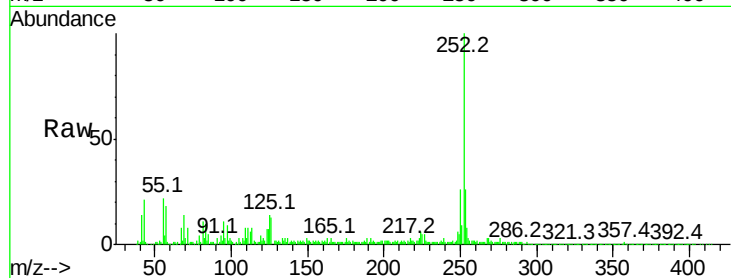
#88
Benzo(k)fluoranthene
Concen: 14.14 ng m
RT: 14.77 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

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

Tot Ion	Ratio	Resp	Lower	Upper
252	100	235547		
253	25.6	17.8	26.6	
125	13.7	9.1	13.7#	

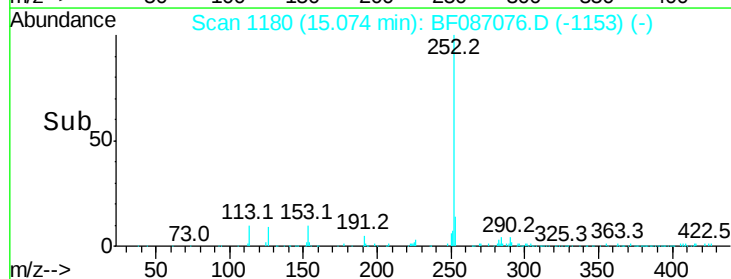
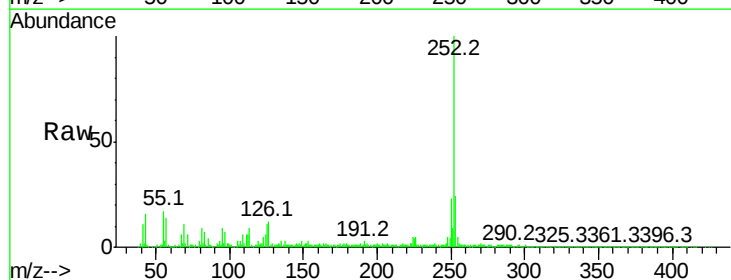
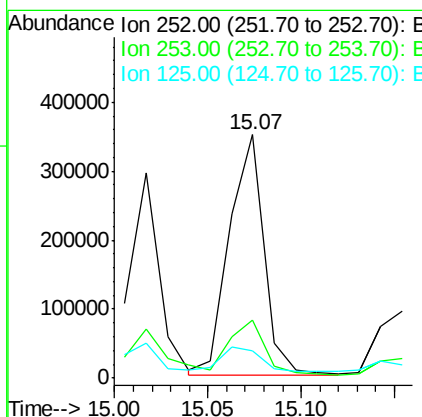
Manual Integrations
APPROVED

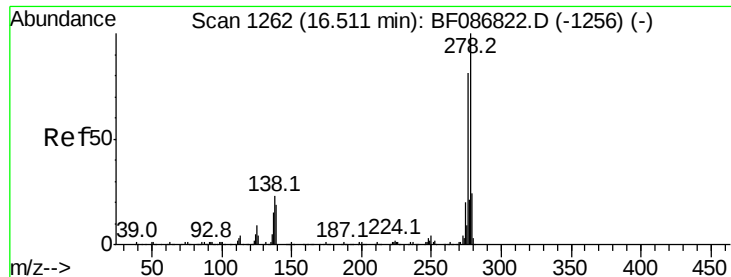
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#89
Benzo(a)pyrene
Concen: 25.83 ng
RT: 15.07 min Scan# 1180
Delta R.T. 0.01 min
Lab File: BF087076.D
Acq: 16 May 2016 12:47

Tgt Ion	Ratio	Resp	Lower	Upper
252	100	453252		
253	23.6	17.2	25.8	
125	11.1	9.0	13.6	





#90

Dibenzo(a,h)anthracene

Concen: 5.19 ng

RT: 16.38 min Scan# 1294

Delta R.T. 0.00 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Instrument :

BNA_F

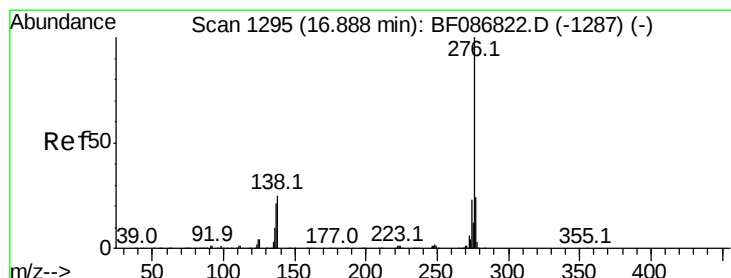
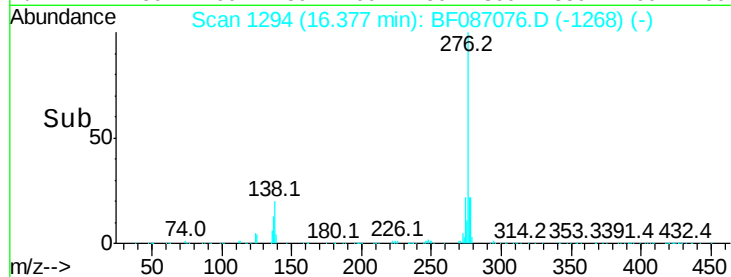
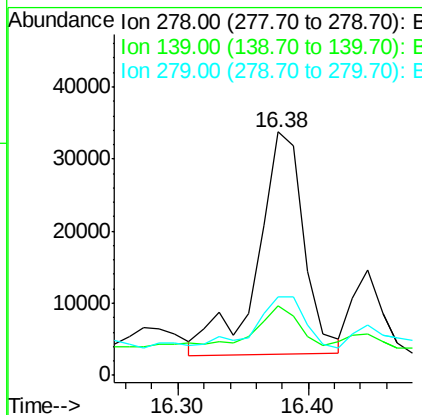
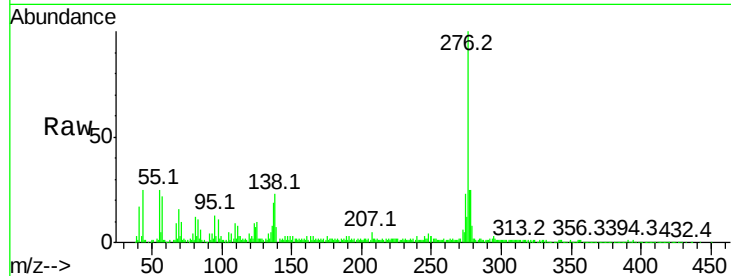
ClientSampleId :

E-13(5.5-6)

Tot Ion:	278	Resp:	76786
Ion Ratio	Lower	Upper	
278	100		
139	28.4	16.6	24.8#
279	32.3	19.6	29.4#

Manual Integrations
APPROVED

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#91

Benzo(g,h,i)perylene

Concen: 15.27 ng

RT: 16.75 min Scan# 1327

Delta R.T. 0.01 min

Lab File: BF087076.D

Acq: 16 May 2016 12:47

Tgt Ion:	276	Resp:	229395
Ion Ratio	Lower	Upper	
276	100		
277	25.4	19.6	29.4
138	24.3	23.6	35.4

