

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051016\
 Data File : BF086877.D
 Acq On : 11 May 2016 3:16
 Operator : UM/SJ
 Sample : H2762-02DL 10X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B1COMPDL

Manual Integrations
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Quant Time: May 11 14:48:50 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon May 09 16:04:56 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.68	152	176837	20.00	ng	-0.01
21) Naphthalene-d8	7.98	136	601537	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	277891	20.00	ng	-0.01
63) Phenanthrene-d10	11.20	188	431048	20.00	ng	-0.01
75) Chrysene-d12	13.83	240	345606	20.00	ng	-0.01
86) Perylene-d12	15.20	264	325563	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.28	112	149623	14.33	ng	-0.01
7) Phenol-d6	6.34	99	194892	13.97	ng	-0.02
23) Nitrobenzene-d5	7.25	82	123785	10.33	ng	-0.01
41) 2,4,6-Tribromophenol	10.51	330	28215	9.59	ng	-0.01
44) 2-Fluorobiphenyl	9.05	172	208209	12.59	ng	-0.01
78) Terphenyl-d14	12.77	244	139776	8.58	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.02	128	7758249	257.50	ng	# 92
37) 2-Methylnaphthalene	8.69	142	2617165	148.58	ng	# 95
45) 1,1'-Biphenyl	9.15	154	546817	24.74	ng	99
48) Acenaphthylene	9.58	152	591868	23.24	ng	# 93
51) Acenaphthene	9.76	154	1236848	78.06	ng	99
54) Dibenzofuran	9.93	168	164700	8.10	ng	# 79
57) Fluorene	10.27	166	936968m	54.02	ng	
70) Phenanthrene	11.23	178	2689214	116.91	ng	97
71) Anthracene	11.28	178	1008571	42.87	ng	100
74) Fluoranthene	12.41	202	1015810	42.93	ng	99
77) Pyrene	12.64	202	1415635	53.50	ng	99
80) Benzo(a)anthracene	13.81	228	584513	30.13	ng	# 86
82) Chrysene	13.85	228	432105m	21.89	ng	
85) Indeno(1,2,3-cd)pyrene	16.49	276	147014	8.95	ng	# 88
87) Benzo(b)fluoranthene	14.83	252	305237m	14.43	ng	
88) Benzo(k)fluoranthene	14.83	252	158329m	9.14	ng	
89) Benzo(a)pyrene	15.15	252	406853m	22.29	ng	
90) Dibenzo(a,h)anthracene	16.49	278	33586	2.18	ng	96
91) Benzo(a,h,i)perylene	16.87	276	157346	10.07	ng	94

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

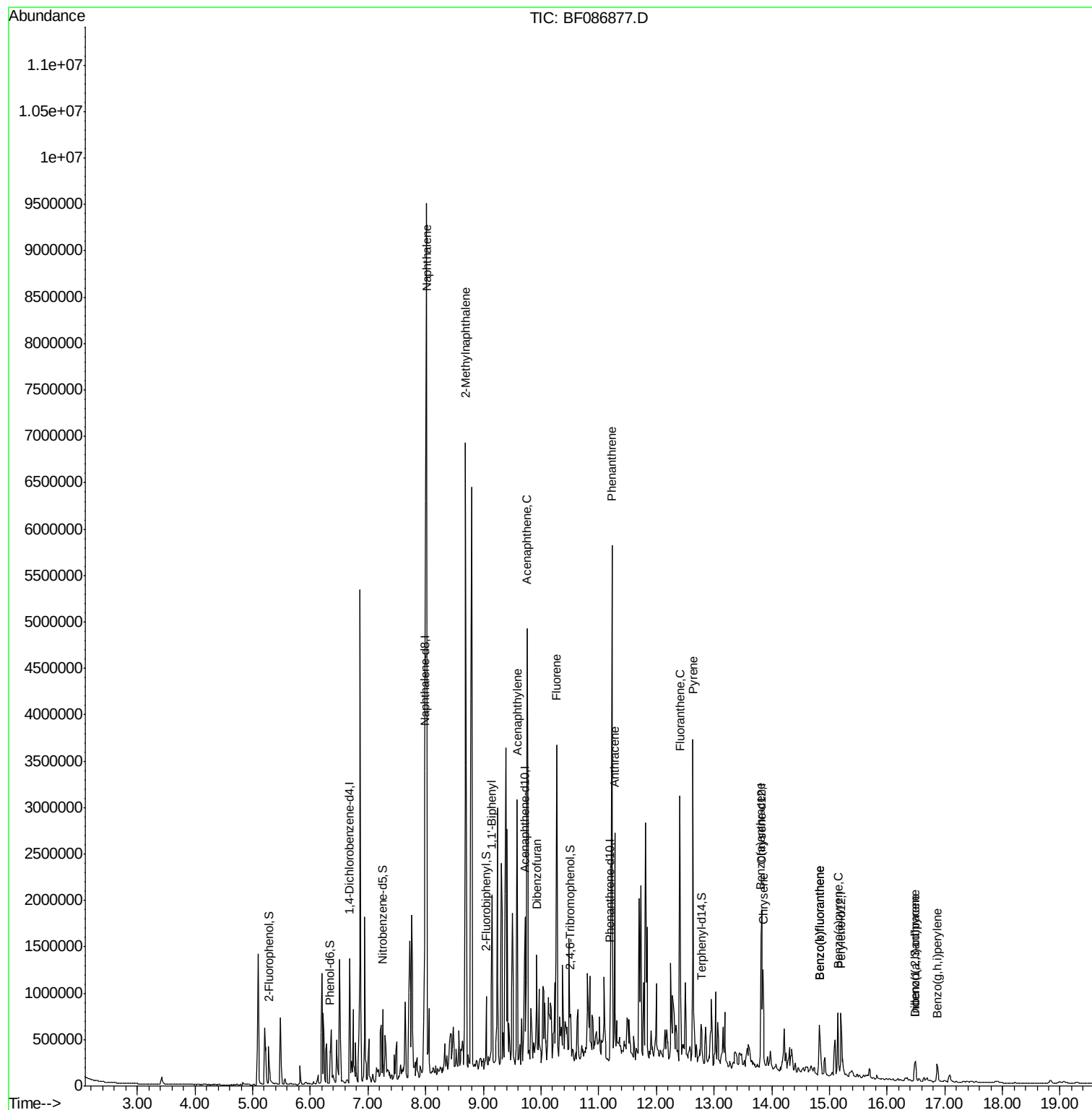
Data Path : Z:\HPCHEM1\BNA F\DATA\BF051016\
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Sample : H2762-02DL 10X
Misc :
ALS Vial : 23 Sample Multiplier: 1

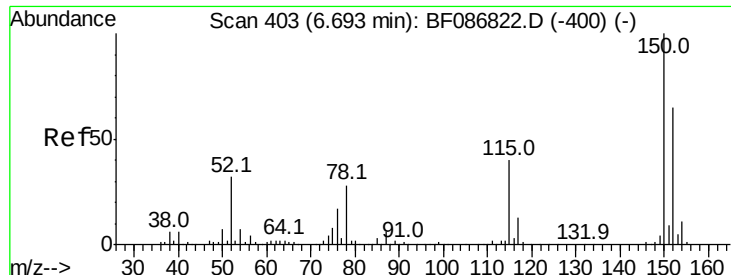
Instrument :
BNA_F
ClientSampleId :
TEC-B1COMPDL

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Quant Time: May 11 14:48:50 2016
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF050916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon May 09 16:04:56 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.68 min Scan# 402

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

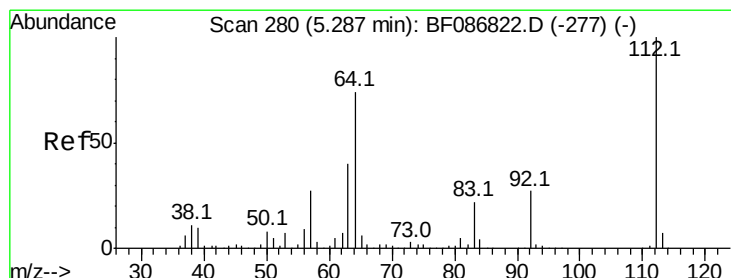
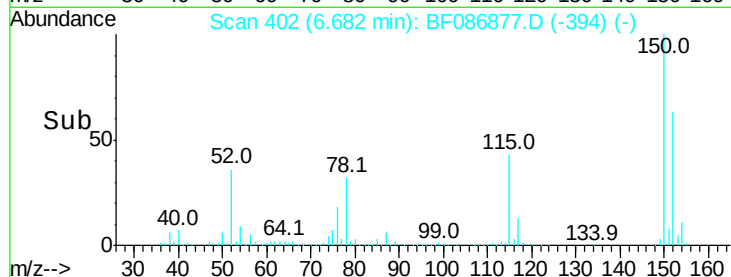
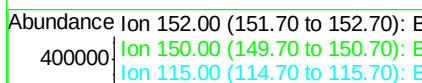
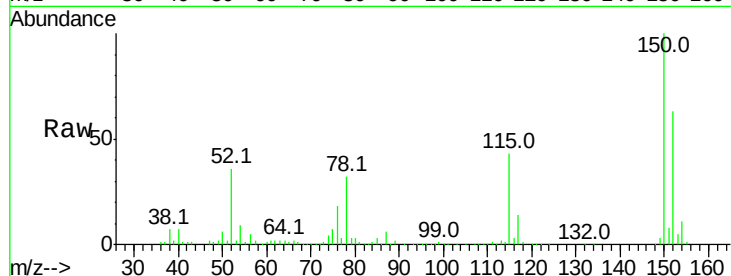
ClientSampleId :

TEC-B1COMPDL

Tot Ion:	152	Resp:	176837
Ion Ratio	Lower	Upper	
152	100		
150	158.9	125.8	188.6
115	68.7	51.5	77.3

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#5

2-Fluorophenol

Concen: 14.33 ng

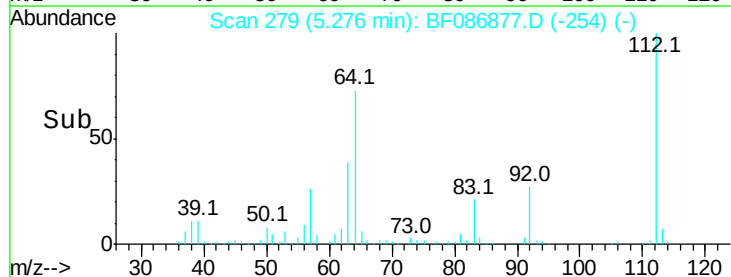
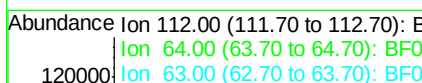
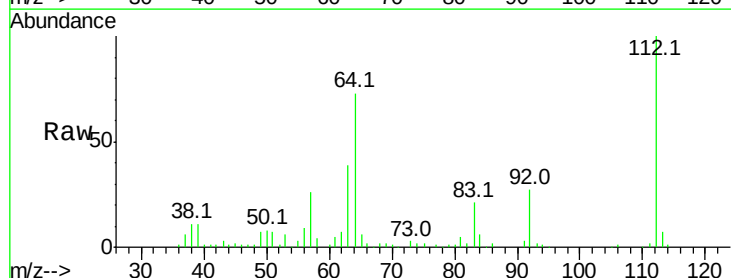
RT: 5.28 min Scan# 279

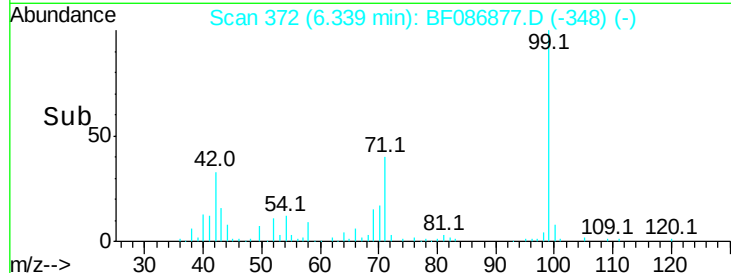
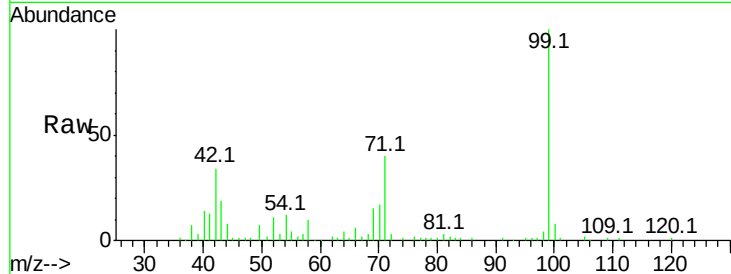
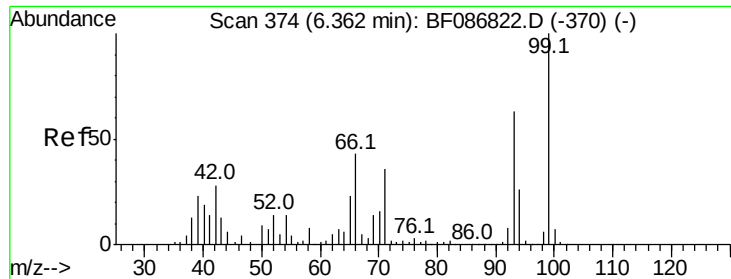
Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Tgt Ion:	112	Resp:	149623
Ion Ratio	Lower	Upper	
112	100		
64	73.1	52.1	78.1
63	39.0	25.7	38.5





#7

Phenol-d6

Concen: 13.97 ng

RT: 6.34 min Scan# 372

Delta R.T. -0.02 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Tot Ion:	99	Resp:	194892
Ion Ratio	Lower	Upper	
99	100		
42	33.6	13.6	20.4#
71	39.7	24.6	36.8#

Instrument :

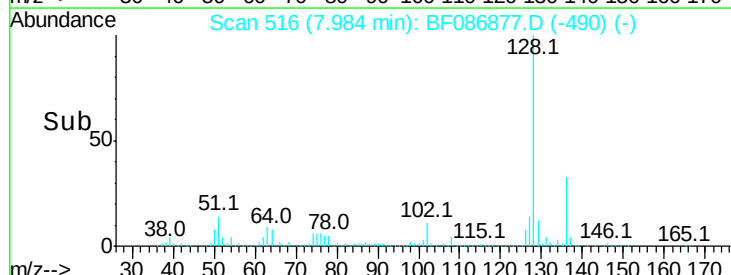
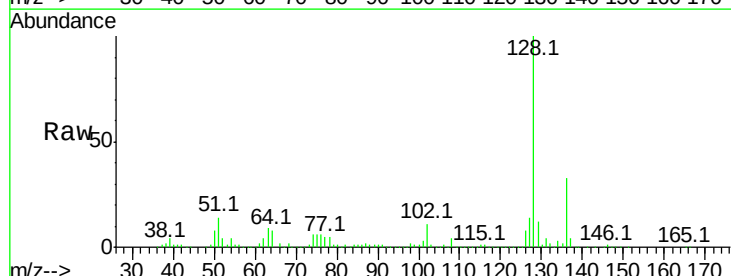
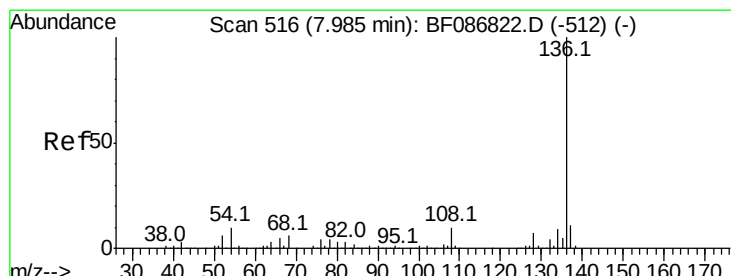
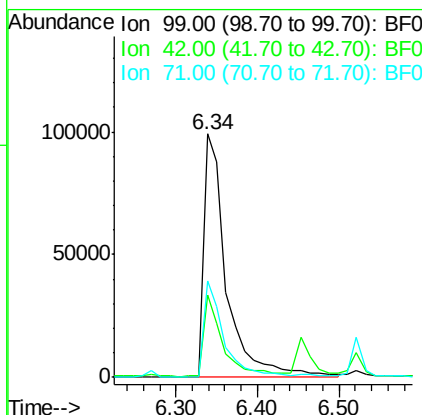
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ClientSampleId :

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#21

Naphthalene-d8

Concen: 20.00 ng

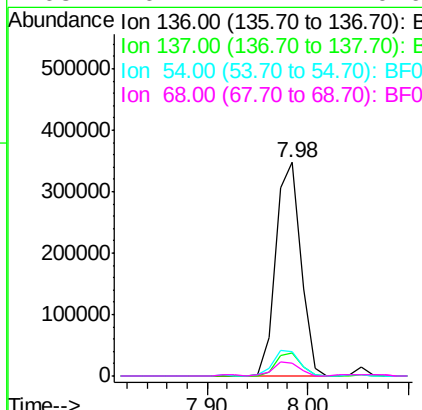
RT: 7.98 min Scan# 516

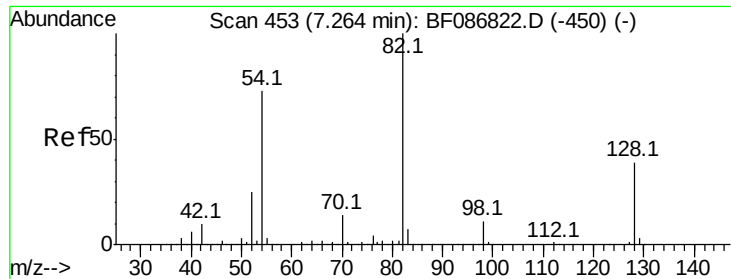
Delta R.T. -0.00 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Tgt Ion:	136	Resp:	601537
Ion Ratio	Lower	Upper	
136	100		
137	10.9	8.8	13.2
54	11.3	5.0	7.4#
68	6.2	4.4	6.6





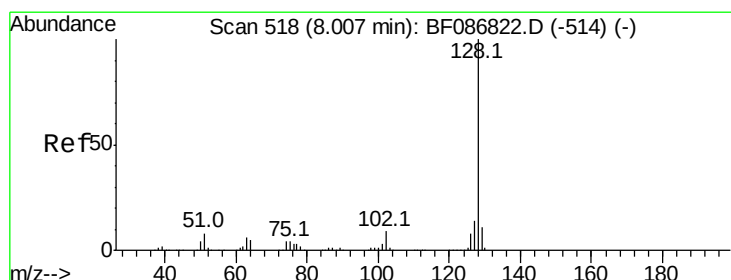
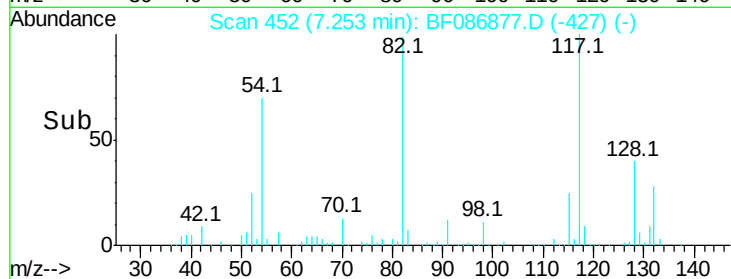
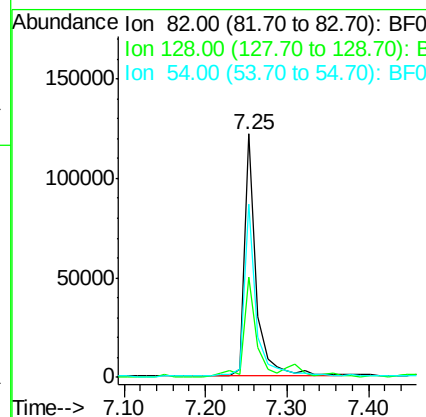
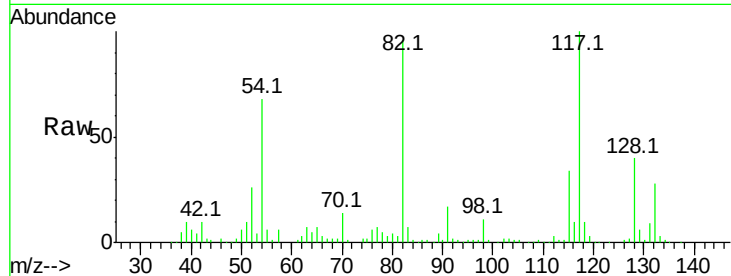
#23
Nitrobenzene-d5
Concen: 10.33 ng
RT: 7.25 min Scan# 452
Delta R.T. -0.01 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Instrument :
BNA_F
ClientSampleId :
TEC-B1COMPDL

Tot Ion	Ratio	Resp Lower	Resp Upper
82	100		
128	41.1	40.6	61.0
54	71.2	38.1	57.1#

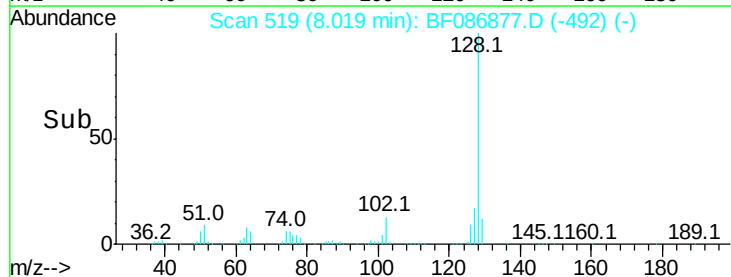
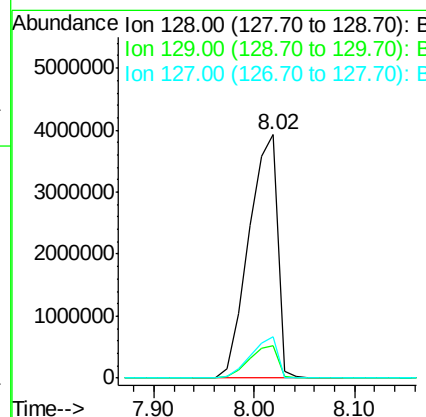
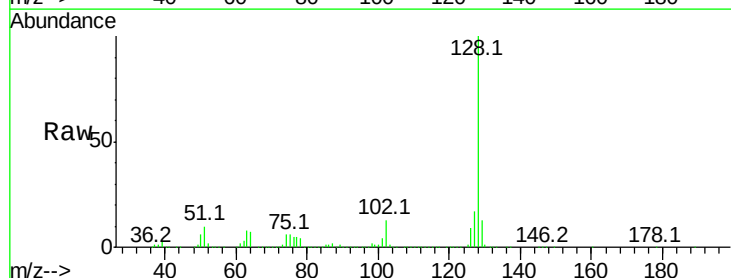
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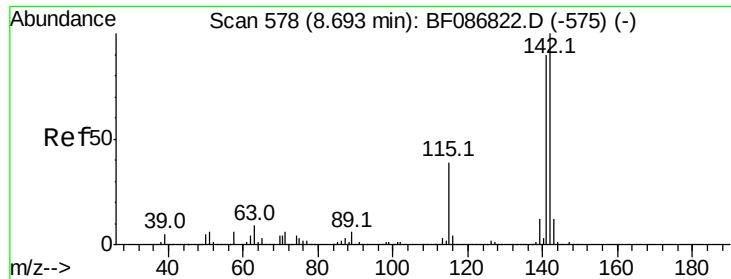
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#31
Naphthalene
Concen: 257.50 ng
RT: 8.02 min Scan# 519
Delta R.T. 0.01 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Tgt Ion	Ratio	Resp Lower	Resp Upper
128	100		
129	13.3	8.6	13.0#
127	16.8	10.8	16.2#





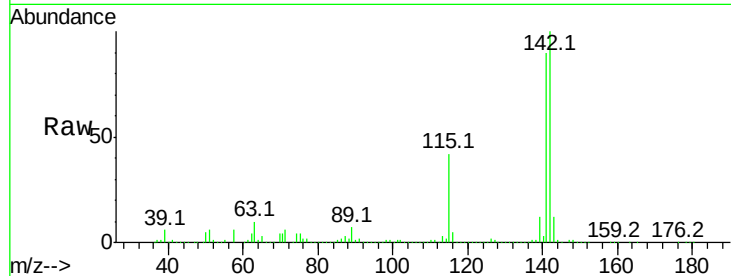
#37
2-Methylnaphthalene
Concen: 148.58 ng
RT: 8.69 min Scan# 578
Delta R.T. -0.00 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Instrument :
BNA_F
ClientSampleId :
TEC-B1COMPDL

Tot Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.0	106.6
115	42.5	26.6	39.8

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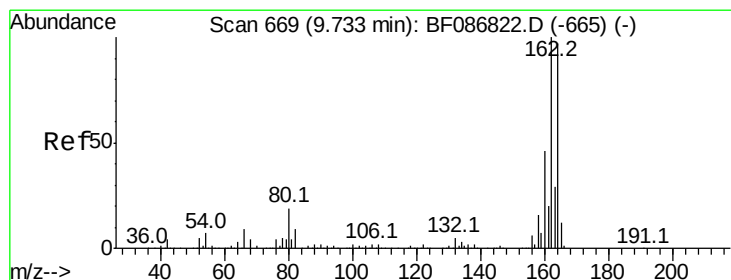
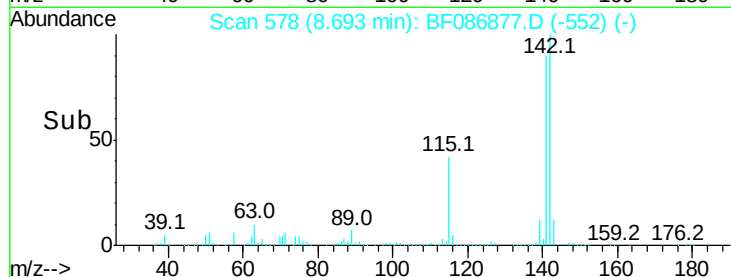
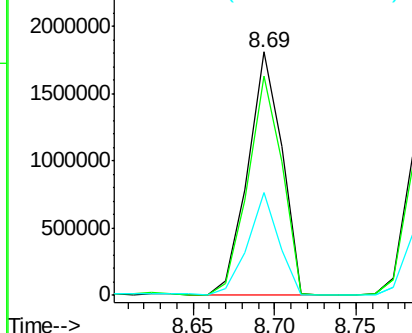


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.72 min Scan# 668
Delta R.T. -0.01 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

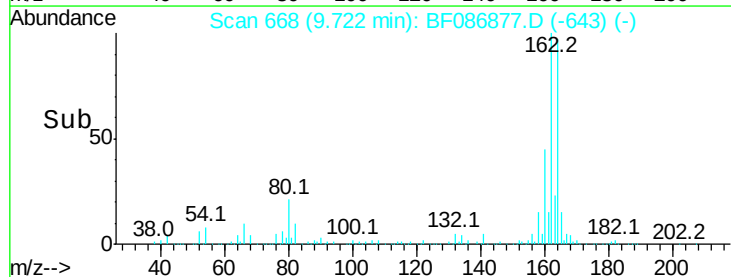
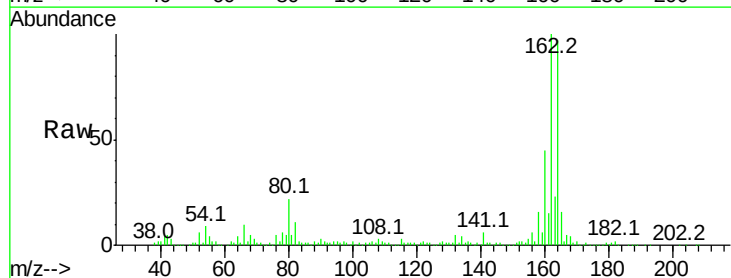
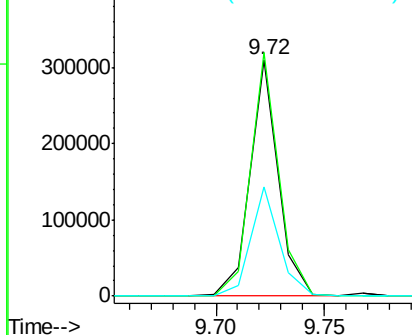
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	82.8	124.2
160	46.4	36.9	55.3

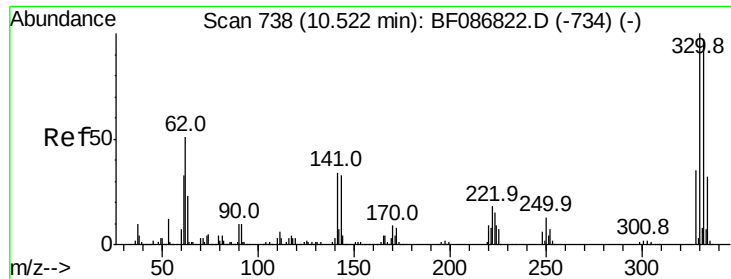
Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





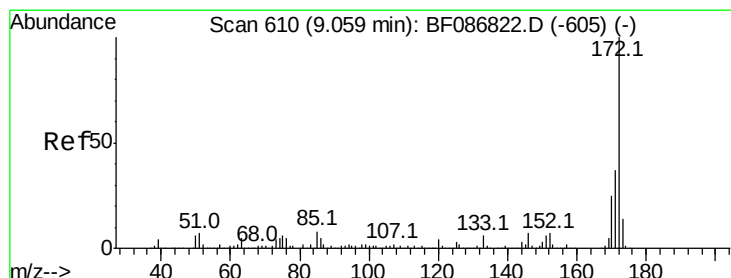
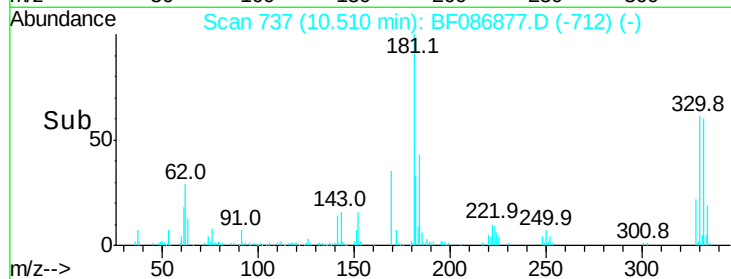
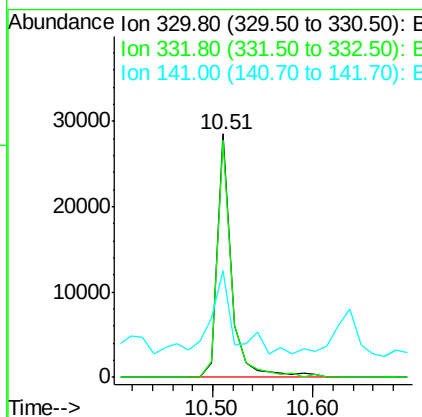
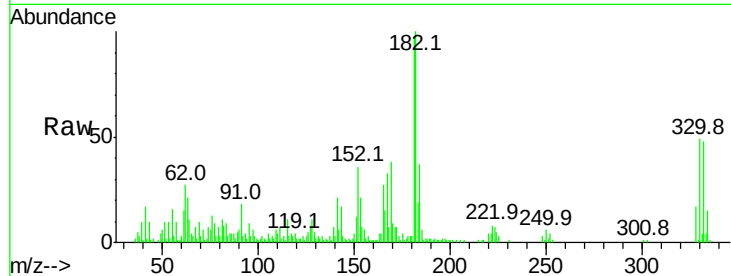
#41
 2,4,6-Tribromophenol
 Concen: 9.59 ng
 RT: 10.51 min Scan# 737
 Delta R.T. -0.01 min
 Lab File: BF086877.D
 Acq: 11 May 2016 3:16

Instrument :
 BNA_F
 ClientSampleId :
 TEC-B1COMPDL

Tot Ion	Ratio	Lower	Upper
330	100		
332	97.5	79.0	118.4
141	53.3	31.2	46.8

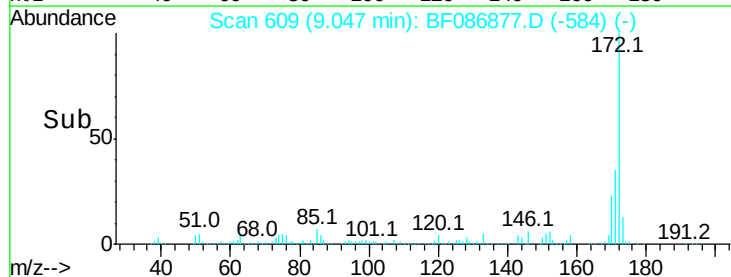
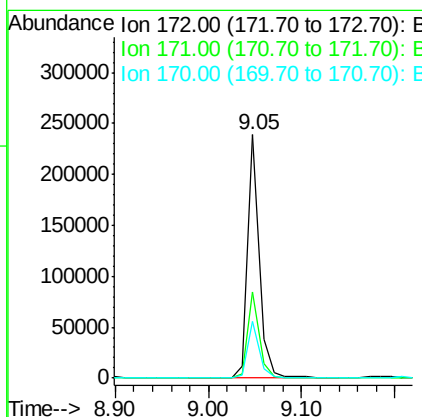
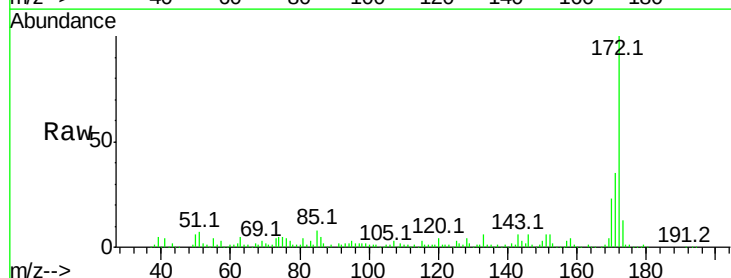
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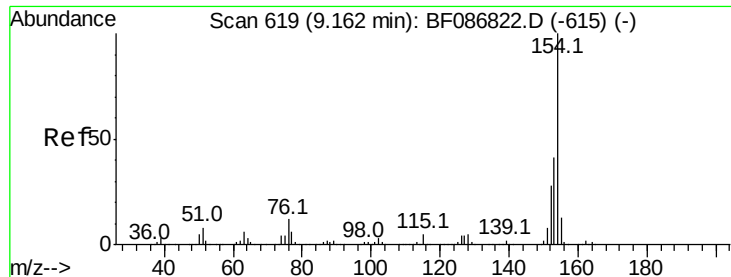
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#44
 2-Fluorobiphenyl
 Concen: 12.59 ng
 RT: 9.05 min Scan# 609
 Delta R.T. -0.01 min
 Lab File: BF086877.D
 Acq: 11 May 2016 3:16

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.0	43.6
170	23.4	19.8	29.8





#45

1,1'-Biphenyl

Concen: 24.74 ng

RT: 9.15 min Scan# 618

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

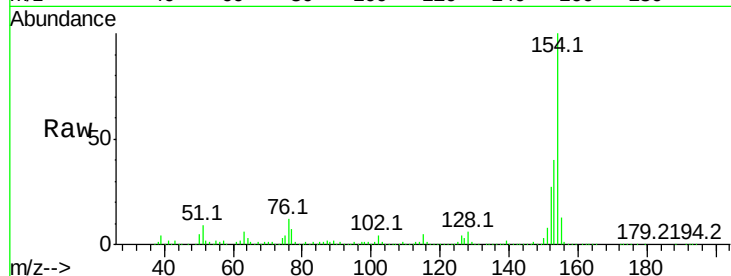
ClientSampleId :

TEC-B1COMPDL

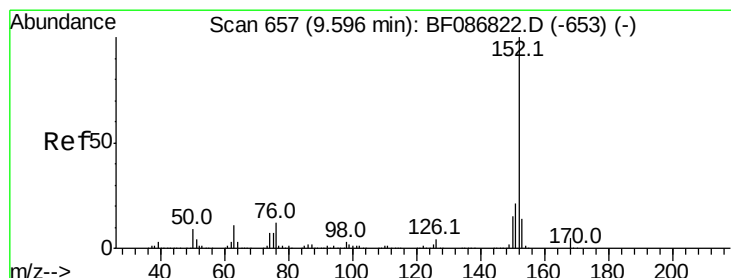
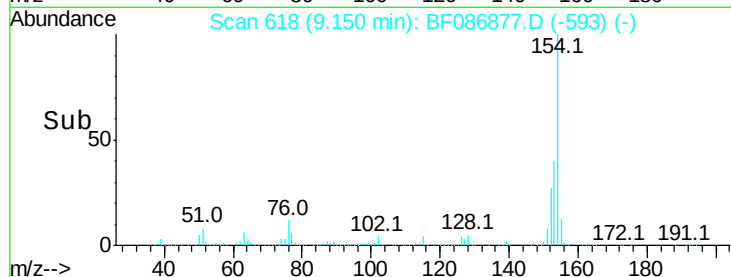
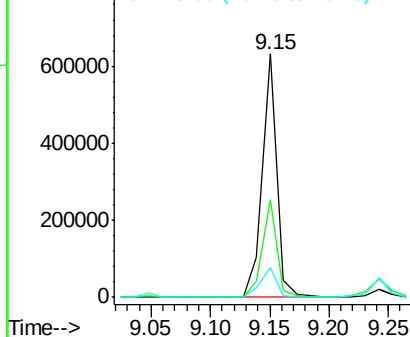
Tot Ion:	154	Resp:	546817
Ion Ratio	Lower	Upper	
154	100		
153	40.3	20.3	60.3
76	12.5	0.0	30.2

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



#48

Acenaphthylene

Concen: 23.24 ng

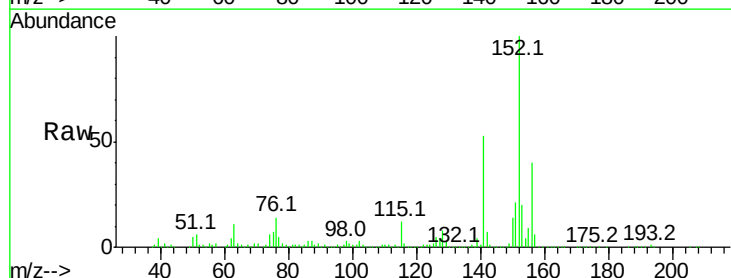
RT: 9.58 min Scan# 656

Delta R.T. -0.01 min

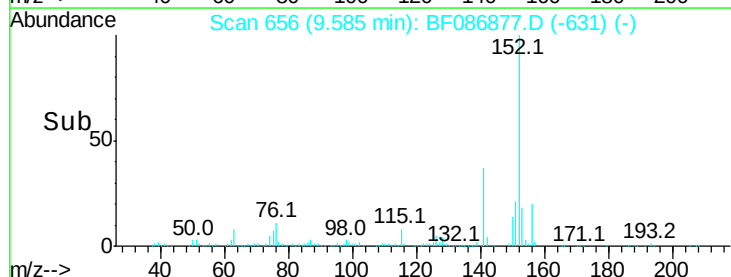
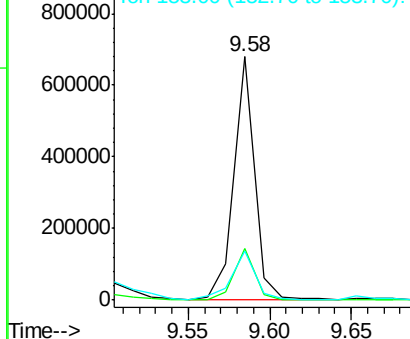
Lab File: BF086877.D

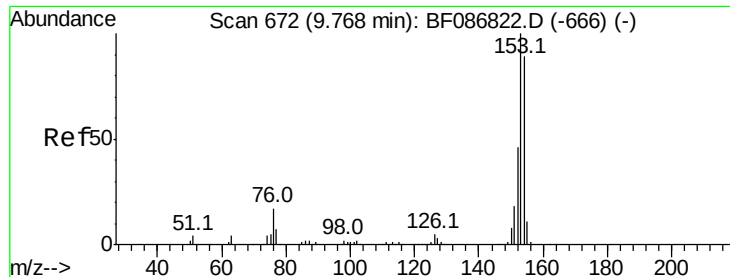
Acq: 11 May 2016 3:16

Tgt Ion:	152	Resp:	591868
Ion Ratio	Lower	Upper	
152	100		
151	21.3	16.8	25.2
153	20.0	10.9	16.3#



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





#51

Acenaphthene

Concen: 78.06 ng

RT: 9.76 min Scan# 671

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

ClientSampleId :

TEC-B1COMPDL

Tot Ion:154 Resp: 1236848

Ion Ratio Lower Upper

154 100

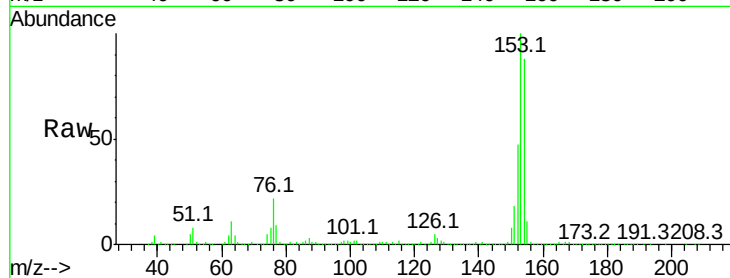
153 113.3 89.8 134.6

152 53.2 43.4 65.0

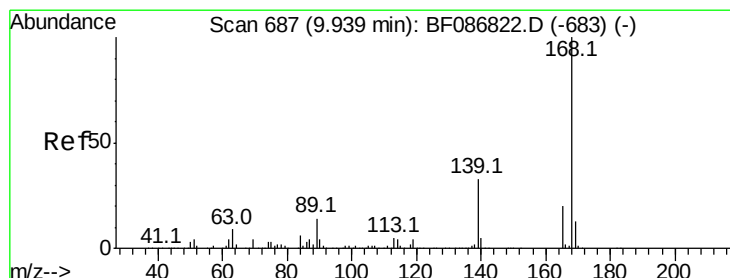
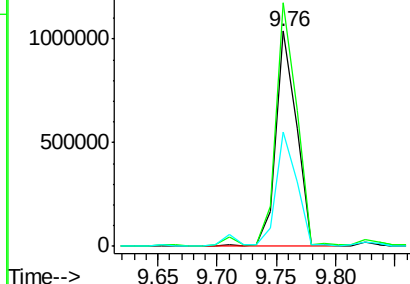
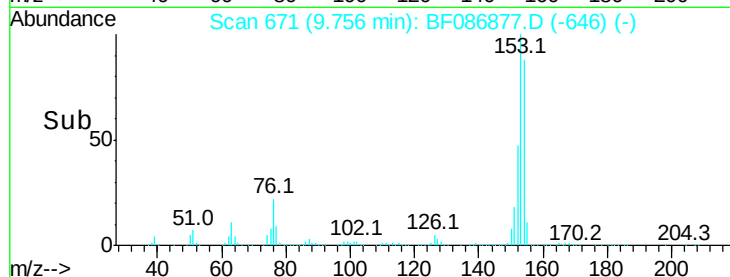
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 8.10 ng

RT: 9.93 min Scan# 686

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

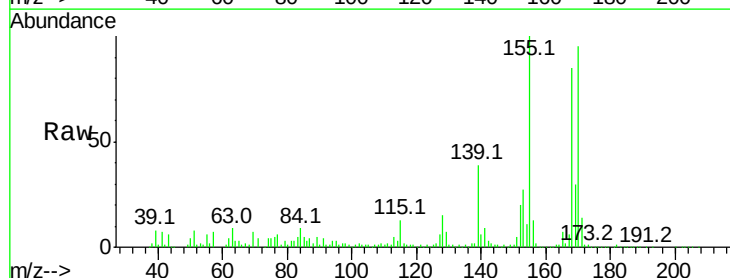
Tgt Ion:168 Resp: 164700

Ion Ratio Lower Upper

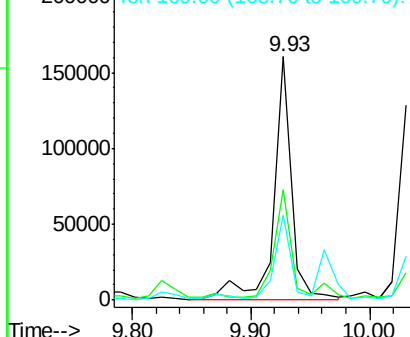
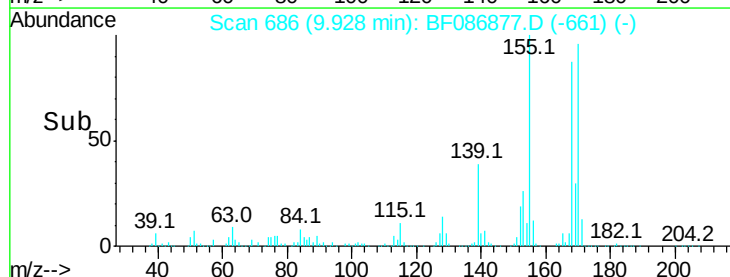
168 100

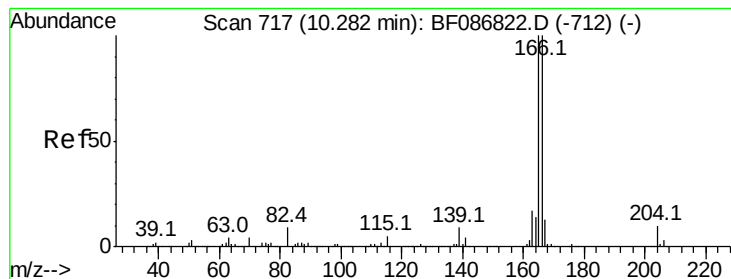
139 45.1 31.4 47.0

169 35.1 10.7 16.1#



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





#57

Fluorene

Concen: 54.02 ng/mL

RT: 10.27 min Scan# 716

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

ClientSampleId :

TEC-B1COMPDL

Tot Ion:166 Resp: 936968

Ion Ratio Lower Upper

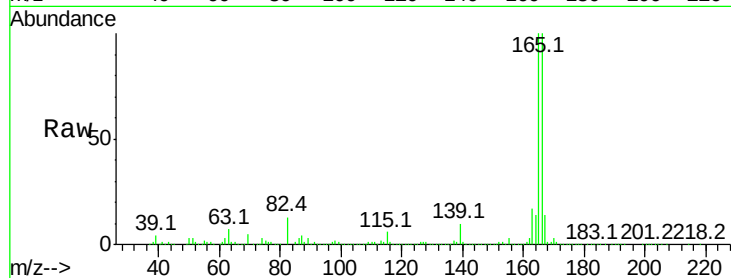
166 100

165 100.3 79.0 118.6

167 14.3 10.6 15.8

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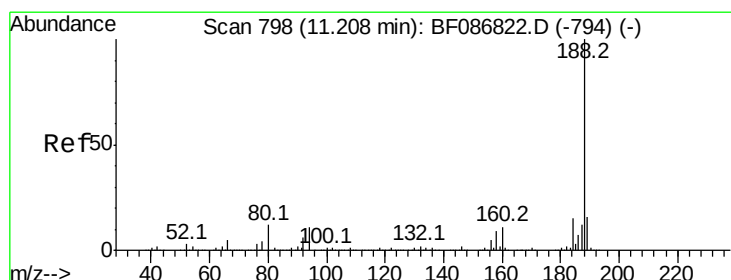
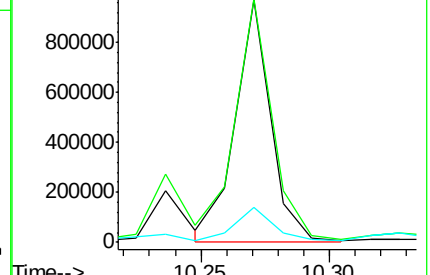
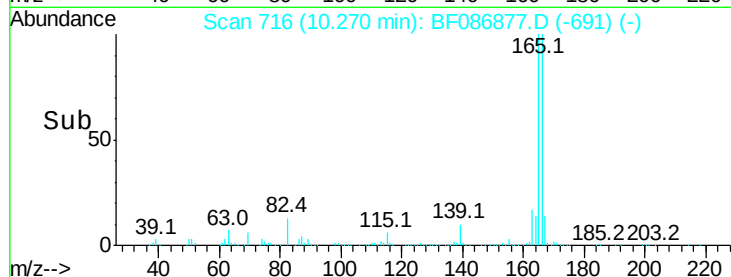
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Abundance Ion 166.00 (165.70 to 166.70): E

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/mL

RT: 11.20 min Scan# 797

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

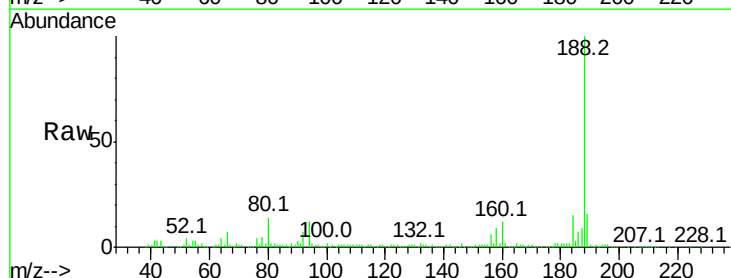
Tgt Ion:188 Resp: 431048

Ion Ratio Lower Upper

188 100

94 12.4 6.8 10.2#

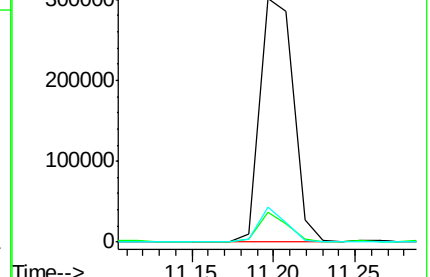
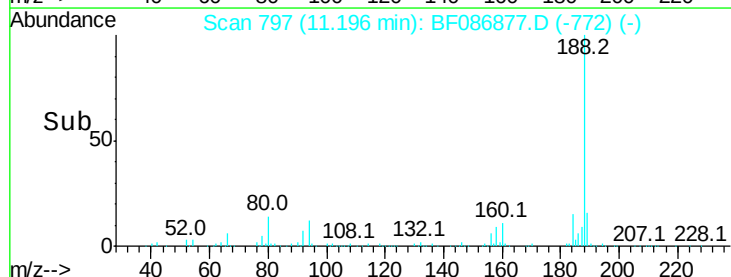
80 14.1 7.1 10.7#

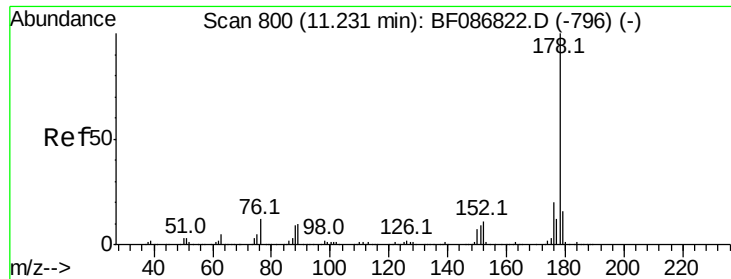


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 116.91 ng

RT: 11.23 min Scan# 800

Delta R.T. -0.00 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

ClientSampleId :

TEC-B1COMPDL

Tot Ion:178 Resp: 2689214

Ion Ratio Lower Upper

178 100

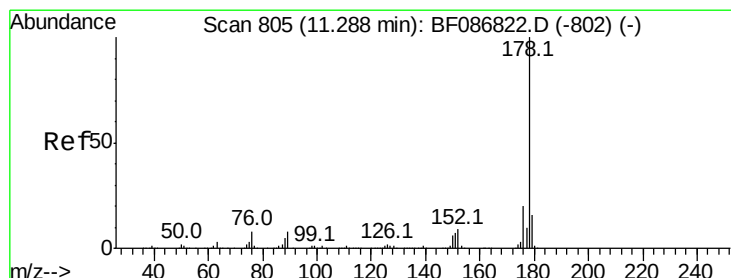
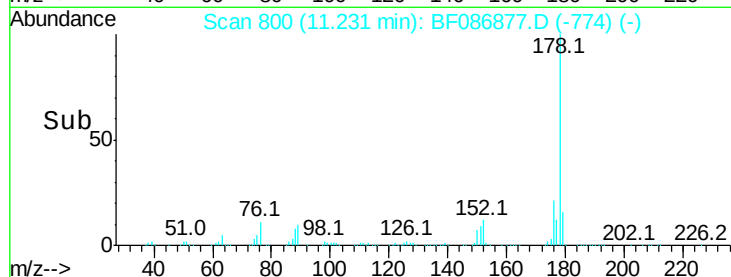
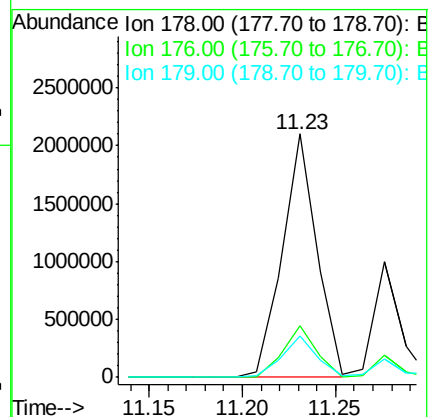
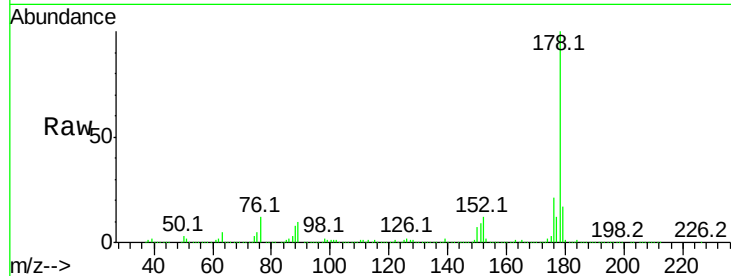
176 21.1 16.0 24.0

179 16.8 12.6 18.8

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#71

Anthracene

Concen: 42.87 ng

RT: 11.28 min Scan# 804

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

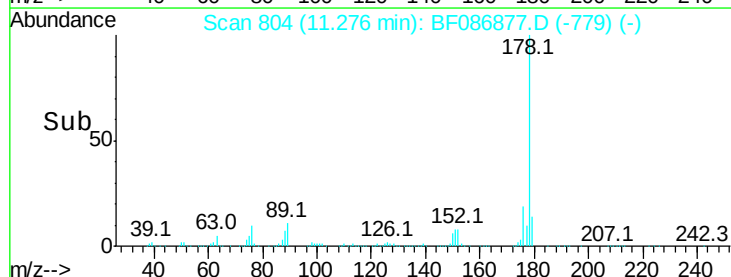
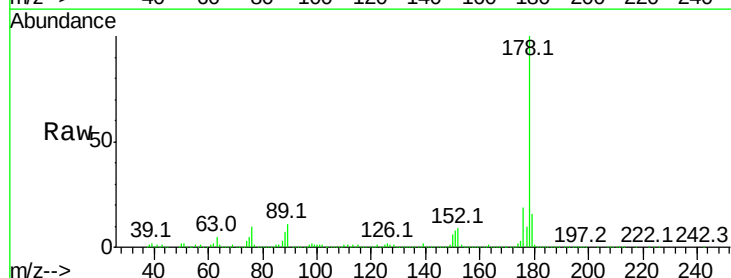
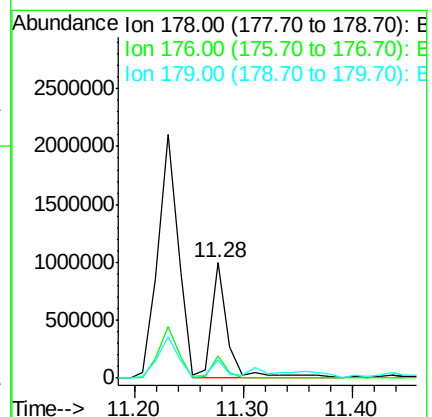
Tgt Ion:178 Resp: 1008571

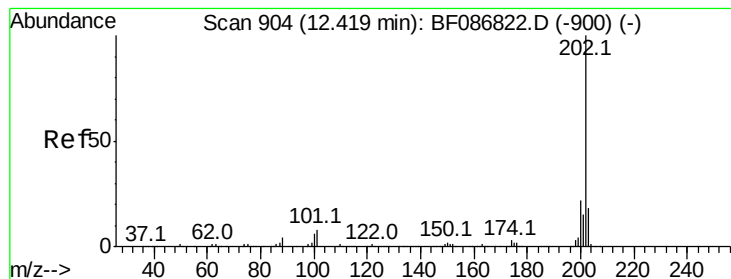
Ion Ratio Lower Upper

178 100

176 19.2 15.6 23.4

179 16.0 12.7 19.1





#74

Fluoranthene

Concen: 42.93 ng

RT: 12.41 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

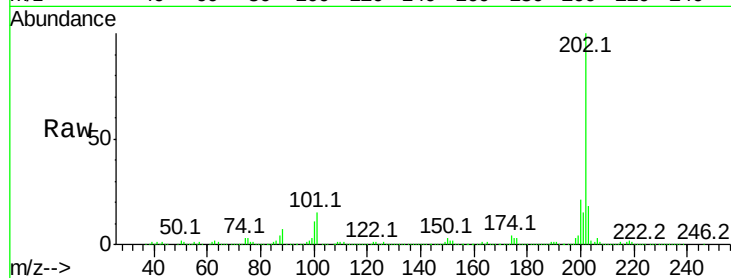
ClientSampleId :

TEC-B1COMPDL

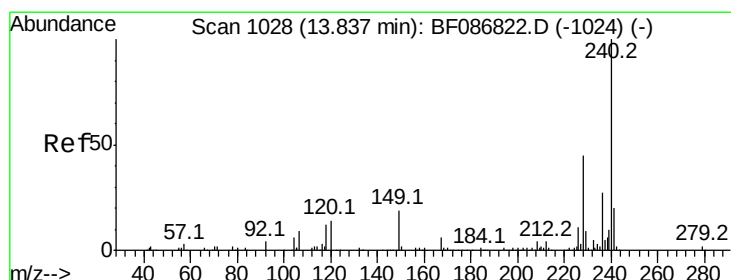
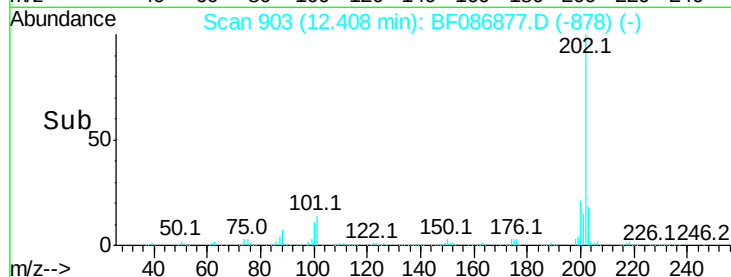
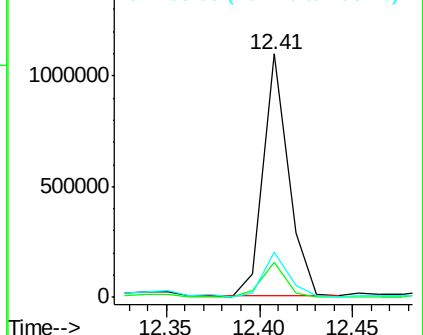
Tot Ion:	202	Resp:	1015810
Ion Ratio	Lower	Upper	
202	100		
101	14.6	0.0	35.4
203	18.4	0.0	38.1

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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

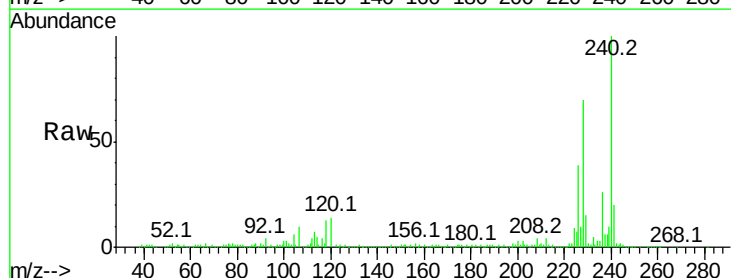
RT: 13.83 min Scan# 1027

Delta R.T. -0.01 min

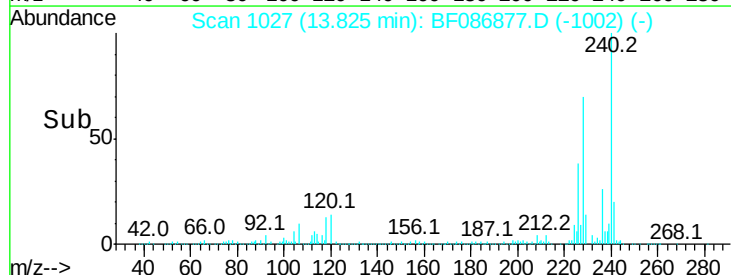
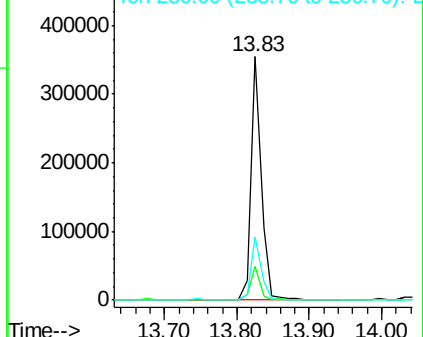
Lab File: BF086877.D

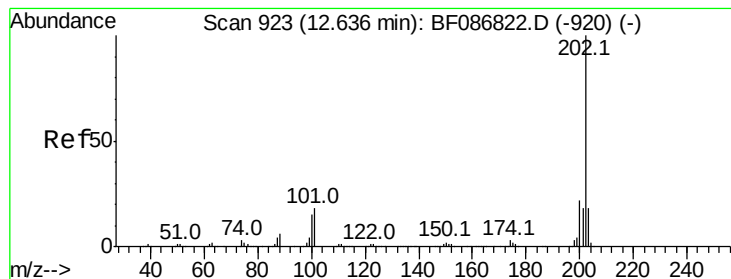
Acq: 11 May 2016 3:16

Tgt Ion:	240	Resp:	345606
Ion Ratio	Lower	Upper	
240	100		
120	14.0	11.2	16.8
236	26.2	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: 53.50 ng

RT: 12.64 min Scan# 923

Delta R.T. -0.00 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

ClientSampleId :

TEC-B1COMPDL

Tot Ion:202 Resp: 1415635

Ion Ratio Lower Upper

202 100

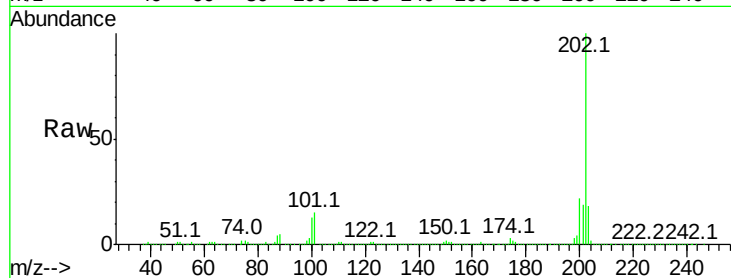
200 22.4 17.7 26.5

203 18.4 14.2 21.4

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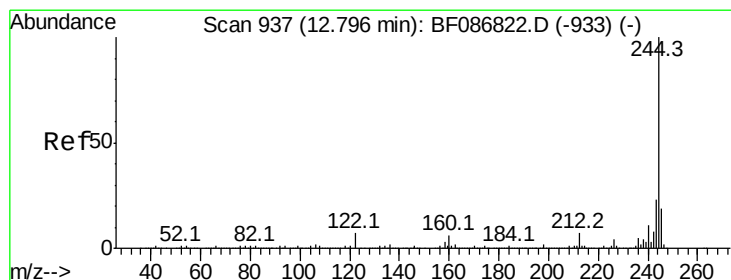
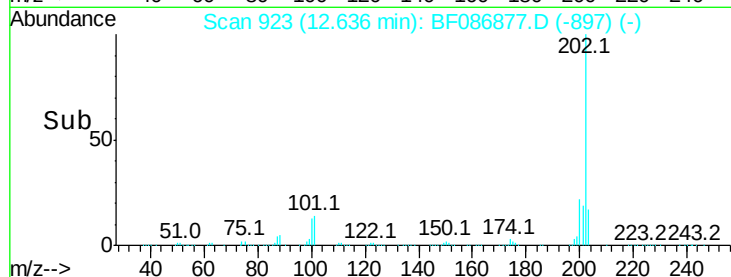
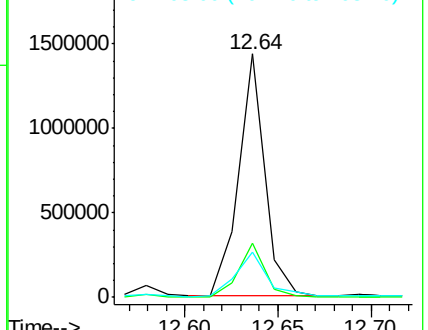
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 8.58 ng

RT: 12.77 min Scan# 935

Delta R.T. -0.02 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

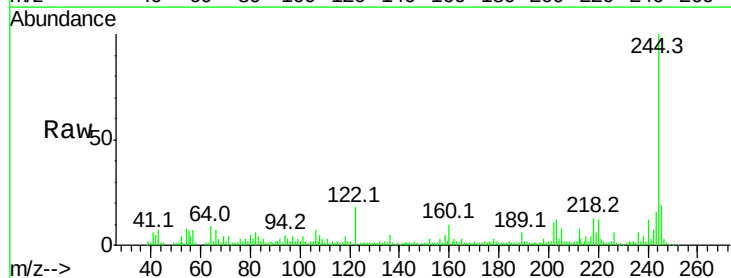
Tgt Ion:244 Resp: 139776

Ion Ratio Lower Upper

244 100

212 8.2 6.2 9.2

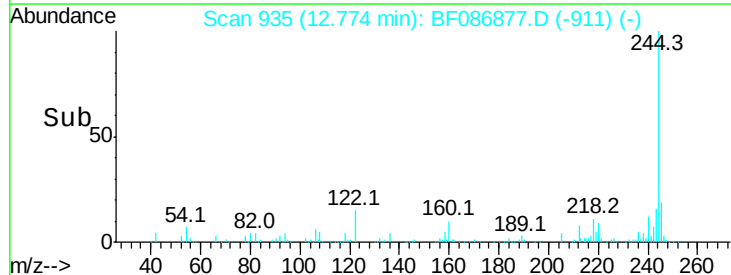
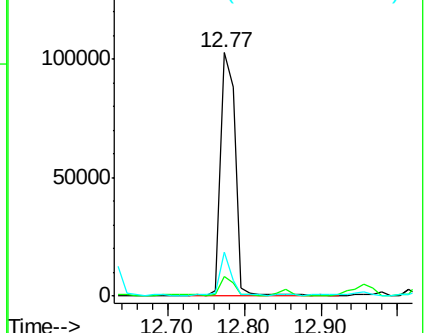
122 18.3 12.0 18.0#

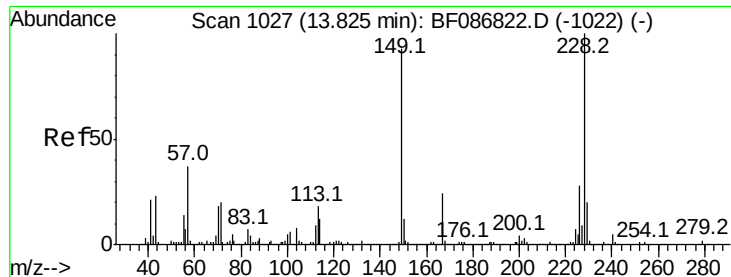


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





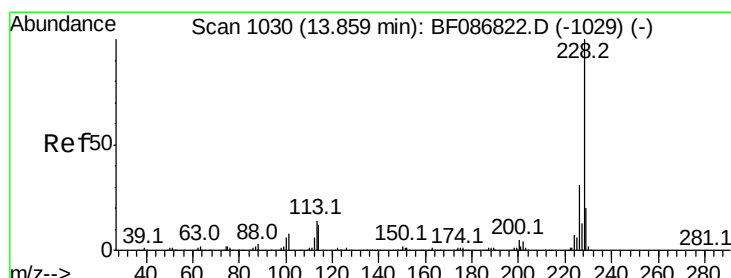
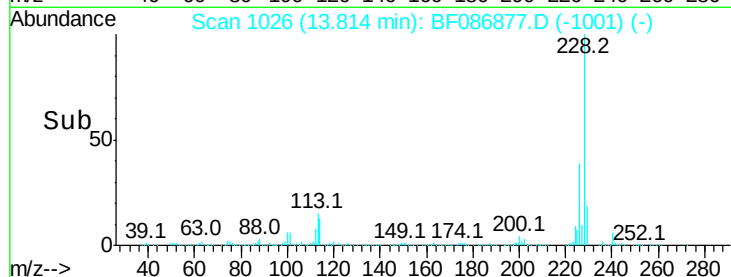
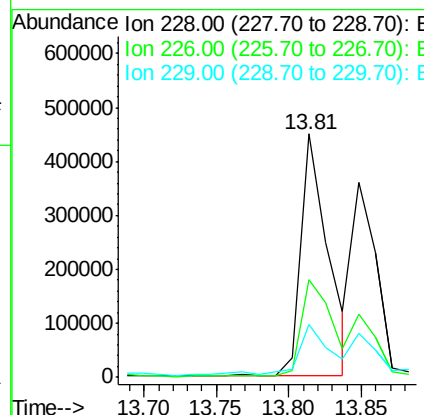
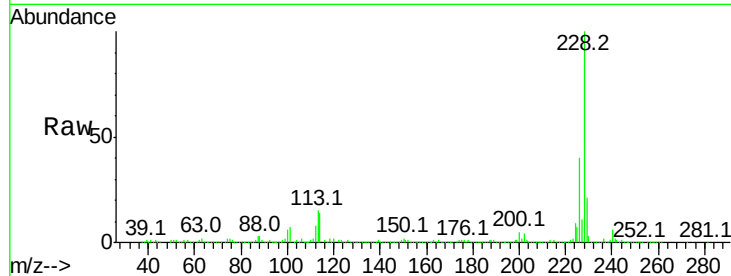
#80
Benzo(a)anthracene
Concen: 30.13 ng
RT: 13.81 min Scan# 1026
Delta R.T. -0.01 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Instrument :
BNA_F
ClientSampleId :
TEC-B1COMPDL

Tot Ion	Ratio	Lower	Upper
228	100		
226	40.2	22.5	33.7#
229	21.5	16.6	25.0

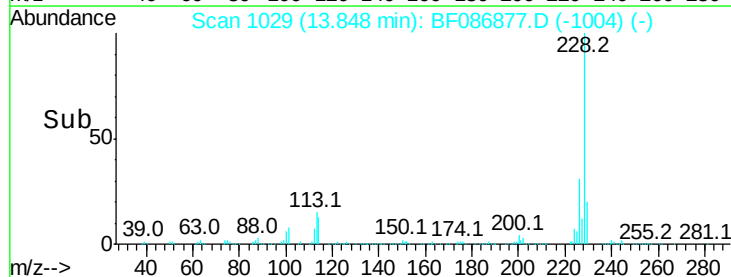
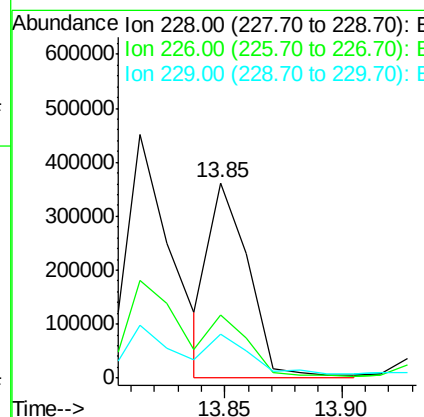
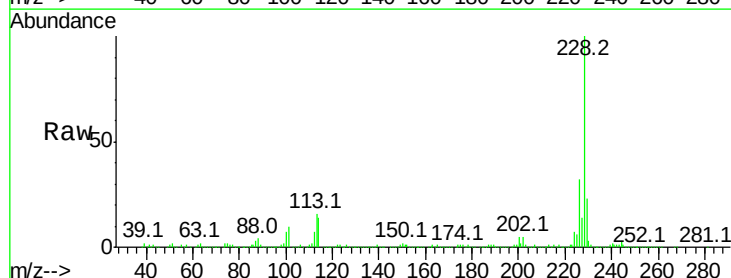
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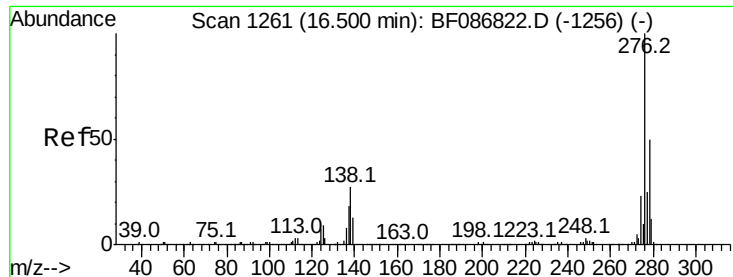
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#82
Chrysene
Concen: 21.89 ng m
RT: 13.85 min Scan# 1029
Delta R.T. -0.01 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Tgt Ion	Ratio	Lower	Upper
228	100		
226	32.2	24.4	36.6
229	22.8	15.8	23.8





#85

Indeno(1,2,3-cd)pyrene

Concen: 8.95 ng

RT: 16.49 min Scan# 1260

Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

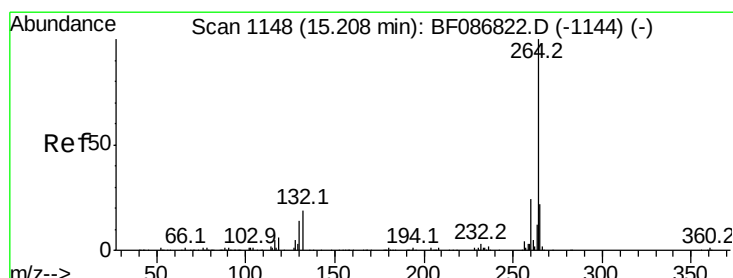
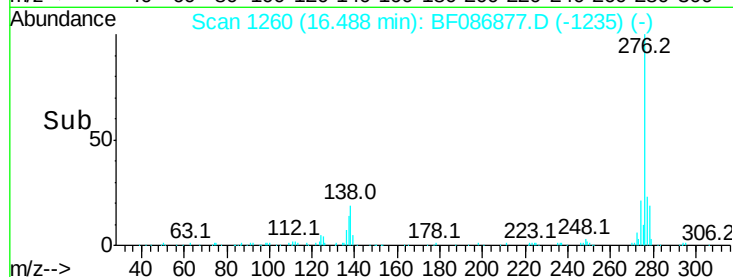
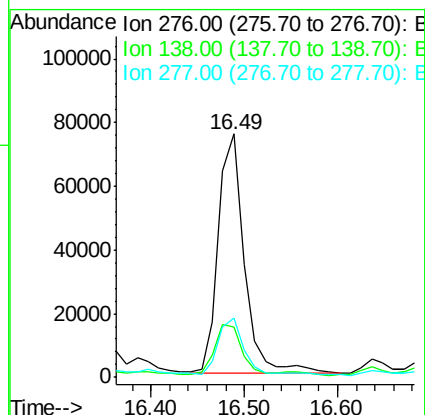
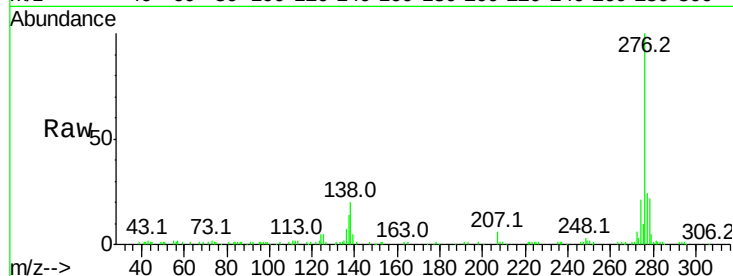
ClientSampleId :

TEC-B1COMPDL

Tot Ion:	276	Resp:	147014
Ion Ratio	Lower	Upper	
276	100		
138	21.5	25.6	38.4#
277	24.0	20.5	30.7

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#86

Perylene-d12

Concen: 20.00 ng

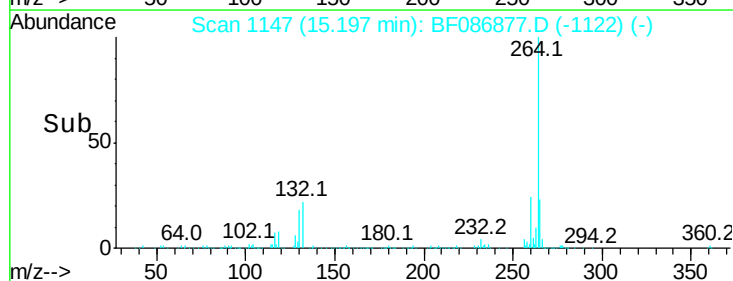
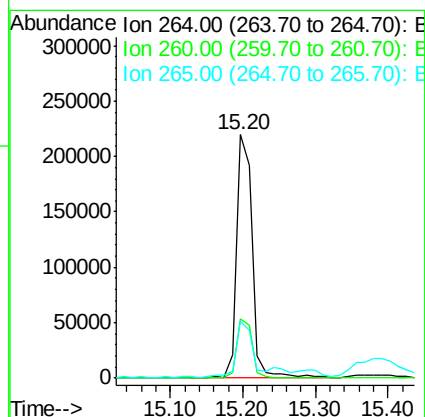
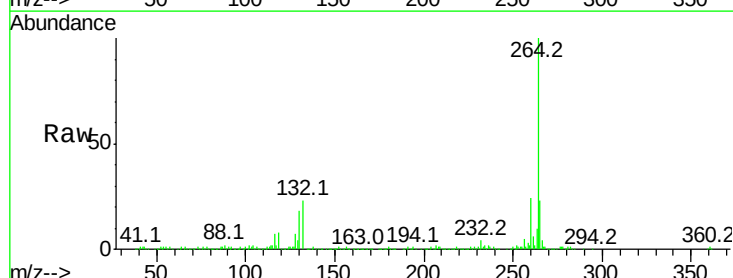
RT: 15.20 min Scan# 1147

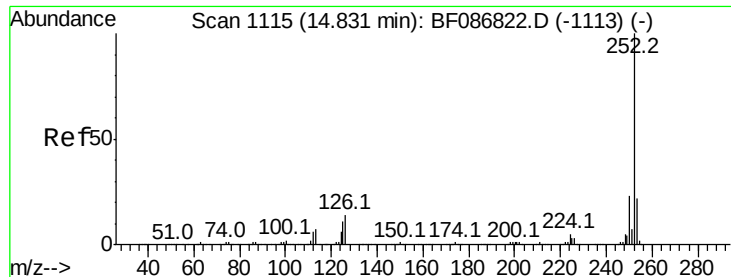
Delta R.T. -0.01 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Tgt Ion:	264	Resp:	325563
Ion Ratio	Lower	Upper	
264	100		
260	24.2	19.5	29.3
265	23.2	17.3	25.9





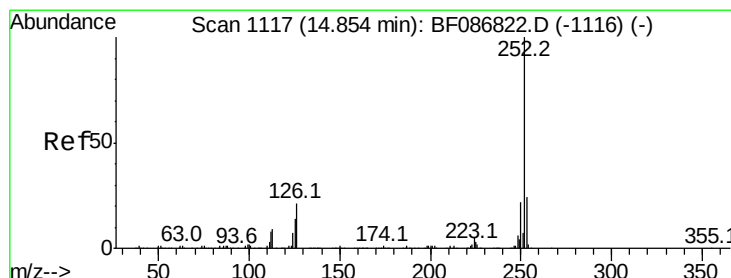
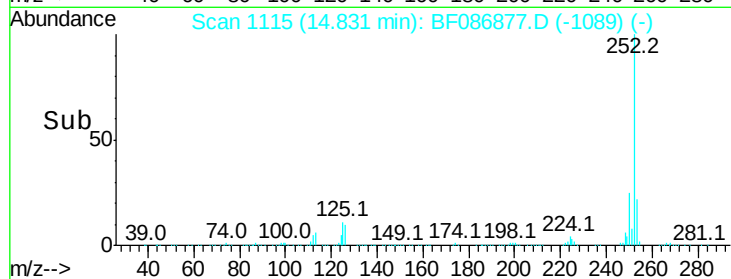
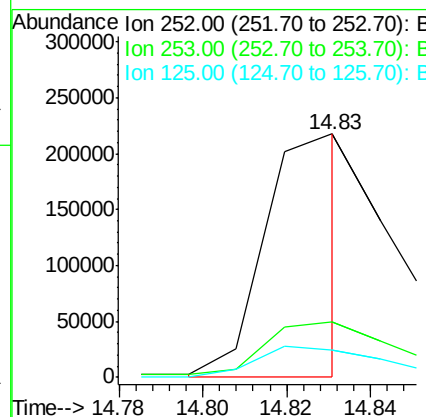
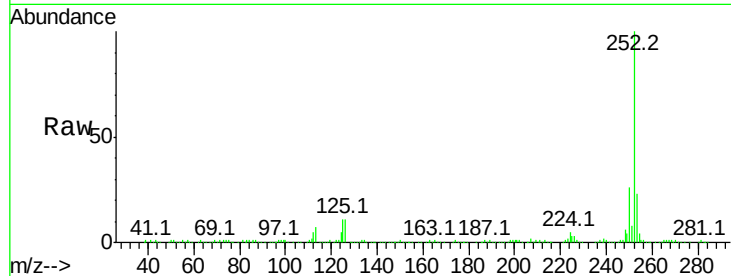
#87
Benzo(b)fluoranthene
Concen: 14.43 ng m
RT: 14.83 min Scan# 1115
Delta R.T. -0.00 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Instrument :
BNA_F
ClientSampleId :
TEC-B1COMPDL

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	11.3	11.4	17.0

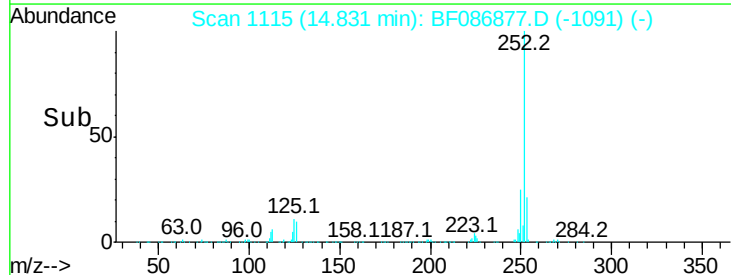
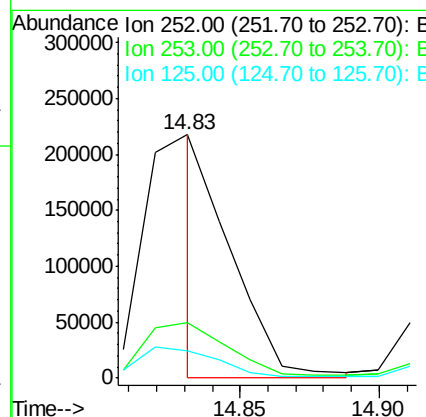
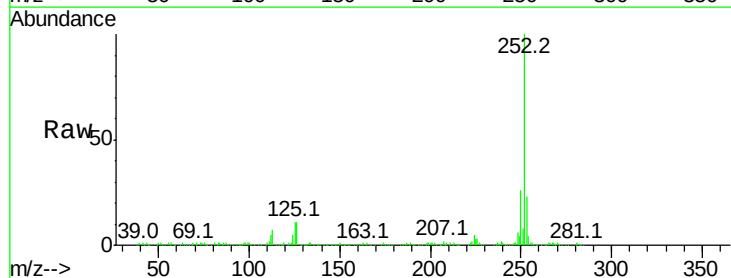
Manual Integrations
APPROVED

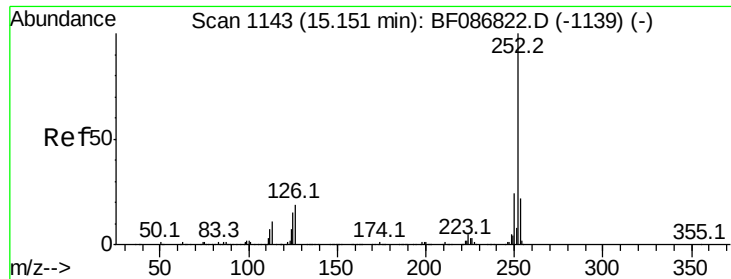
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#88
Benzo(k)fluoranthene
Concen: 9.14 ng m
RT: 14.83 min Scan# 1115
Delta R.T. -0.02 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	11.3	9.1	13.7





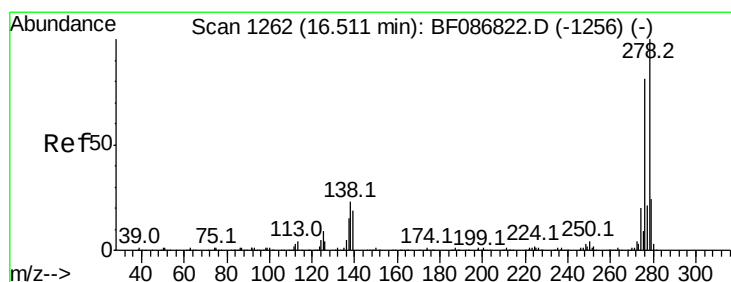
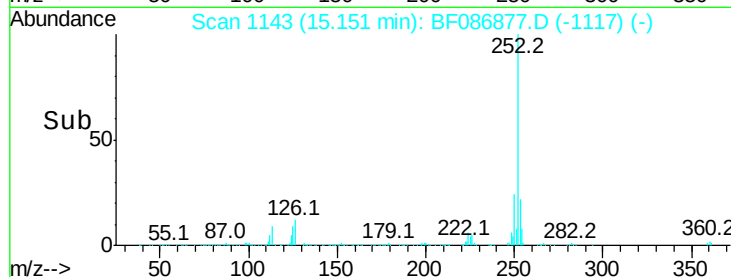
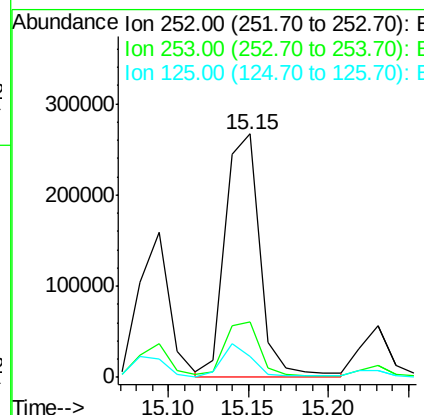
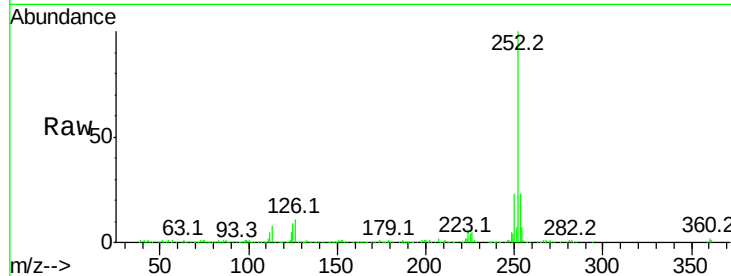
#89
Benzo(a)pyrene
Concen: 22.29 ng/ml
RT: 15.15 min Scan# 1143
Delta R.T. -0.00 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Instrument :
BNA_F
ClientSampleId :
TEC-B1COMPDL

Tot Ion	Ratio	Resp Lower	Upper
252	100		
253	22.6	17.2	25.8
125	8.6	9.0	13.6

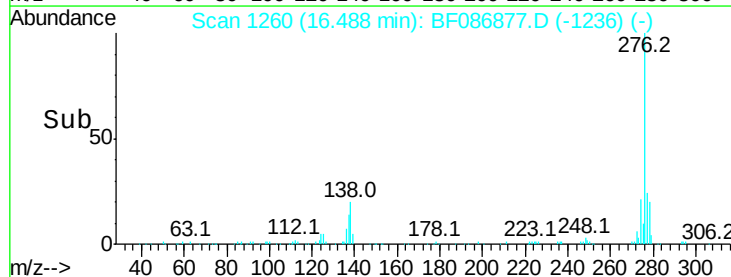
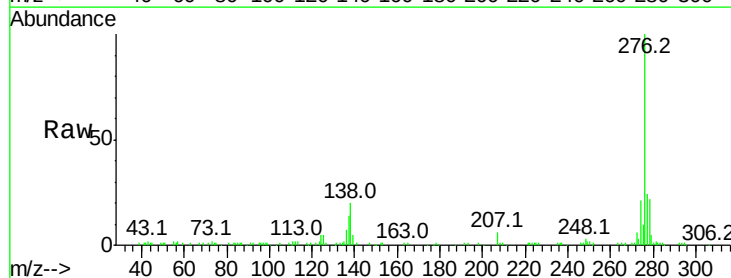
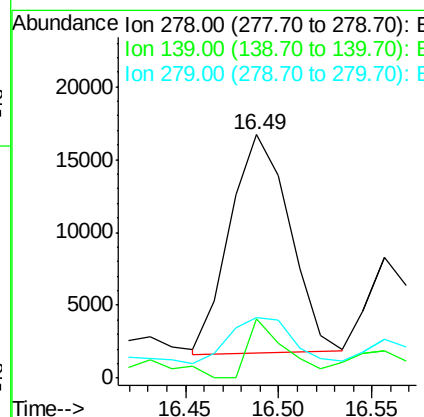
Manual Integrations
APPROVED

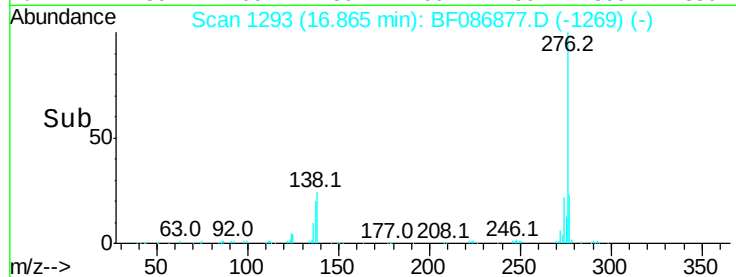
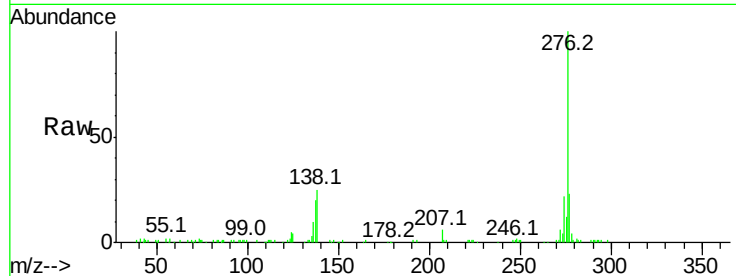
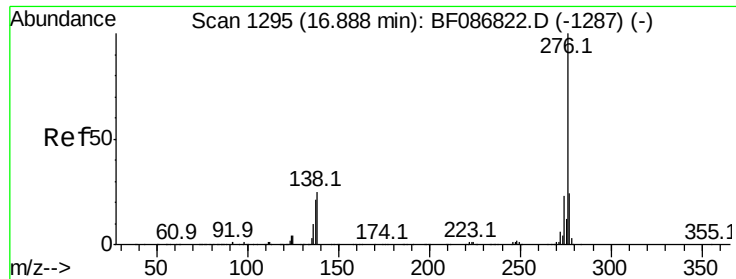
sohil
5/11/2016 8:17:43 PM



#90
Dibenzo(a,h)anthracene
Concen: 2.18 ng
RT: 16.49 min Scan# 1260
Delta R.T. -0.02 min
Lab File: BF086877.D
Acq: 11 May 2016 3:16

Tgt Ion	Ratio	Resp Lower	Upper
278	100		
139	24.2	16.6	24.8
279	24.8	19.6	29.4





#91

Benzo(a,h,i)perylene

Concen: 10.07 ng

RT: 16.87 min Scan# 1293

Delta R.T. -0.02 min

Lab File: BF086877.D

Acq: 11 May 2016 3:16

Instrument :

BNA_F

ClientSampleId :

TEC-B1COMPDL

Tot Ion	Ratio	Resp Lower	Upper
276	100		
277	23.3	19.6	29.4
138	24.6	23.6	35.4

Manual Integrations
APPROVED

sohil
5/11/2016 8:17:43 PM

