

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030215\
 Data File : BF077538.D
 Acq On : 2 Mar 2015 22:44
 Operator : TP/IZ
 Sample : G1402-04 2X
 Misc : S
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 MW41

Manual Integrations
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Quant Time: Mar 03 05:58:26 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Mar 02 23:46:07 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.26	152	55186	20.00	ng	0.00
21) Naphthalene-d8	8.86	136	175368	20.00	ng	0.03
38) Acenaphthene-d10	11.02	164	120658	20.00	ng	0.00
63) Phenanthrene-d10	12.87	188	200110	20.00	ng	0.02
75) Chrysene-d12	16.17	240	197670	20.00	ng	0.04
86) Perylene-d12	17.93	264	229718	20.00	ng	0.10
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	122339	37.01	ng	0.01
7) Phenol-d6	6.82	99	98469	23.17	ng	0.00
23) Nitrobenzene-d5	7.95	82	214341	76.00	ng	0.00
41) 2,4,6-Tribromophenol	12.00	330	91145	78.45	ng	0.01
44) 2-Fluorobiphenyl	10.19	172	497729	64.32	ng	0.00
78) Terphenyl-d14	14.86	244	507744	60.05	ng	0.02
Target Compounds						
31) Naphthalene	8.90	128	14478542	1650.94	ng	# 88
37) 2-Methylnaphthalene	9.74	142	5317139	853.76	ng	# 92
45) 1,1'-Biphenyl	10.31	154	1670312	182.72	ng	97
48) Acenaphthylene	10.85	152	1077567	94.95	ng	# 93
51) Acenaphthene	11.07	154	2851328	421.01	ng	97
54) Dibenzofuran	11.27	168	668666	63.94	ng	# 93
57) Fluorene	11.71	166	2302345	275.40	ng	97
70) Phenanthrene	12.91	178	6897119	594.67	ng	# 91
71) Anthracene	12.97	178	3050471	265.03	ng	95
72) Carbazole	13.16	167	415208	37.94	ng	# 95
74) Fluoranthene	14.39	202	3748463	295.87	ng	94
77) Pyrene	14.67	202	4955909	409.86	ng	# 90
80) Benzo(a)anthracene	16.16	228	2613275	225.57	ng	# 74
82) Chrysene	16.20	228	2184944	200.85	ng	# 94
85) Indeno(1,2,3-cd)pyrene	19.39	276	771995m	62.24	ng	
87) Benzo(b)fluoranthene	17.48	252	1773429m	132.76	ng	
88) Benzo(k)fluoranthene	17.51	252	609078m	46.53	ng	
89) Benzo(a)pyrene	17.87	252	1983276	155.89	ng	# 96
90) Dibenzo(a,h)anthracene	19.41	278	219500	18.09	ng	95
91) Benzo(g,h,i)perylene	19.83	276	875561m	71.50	ng	

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

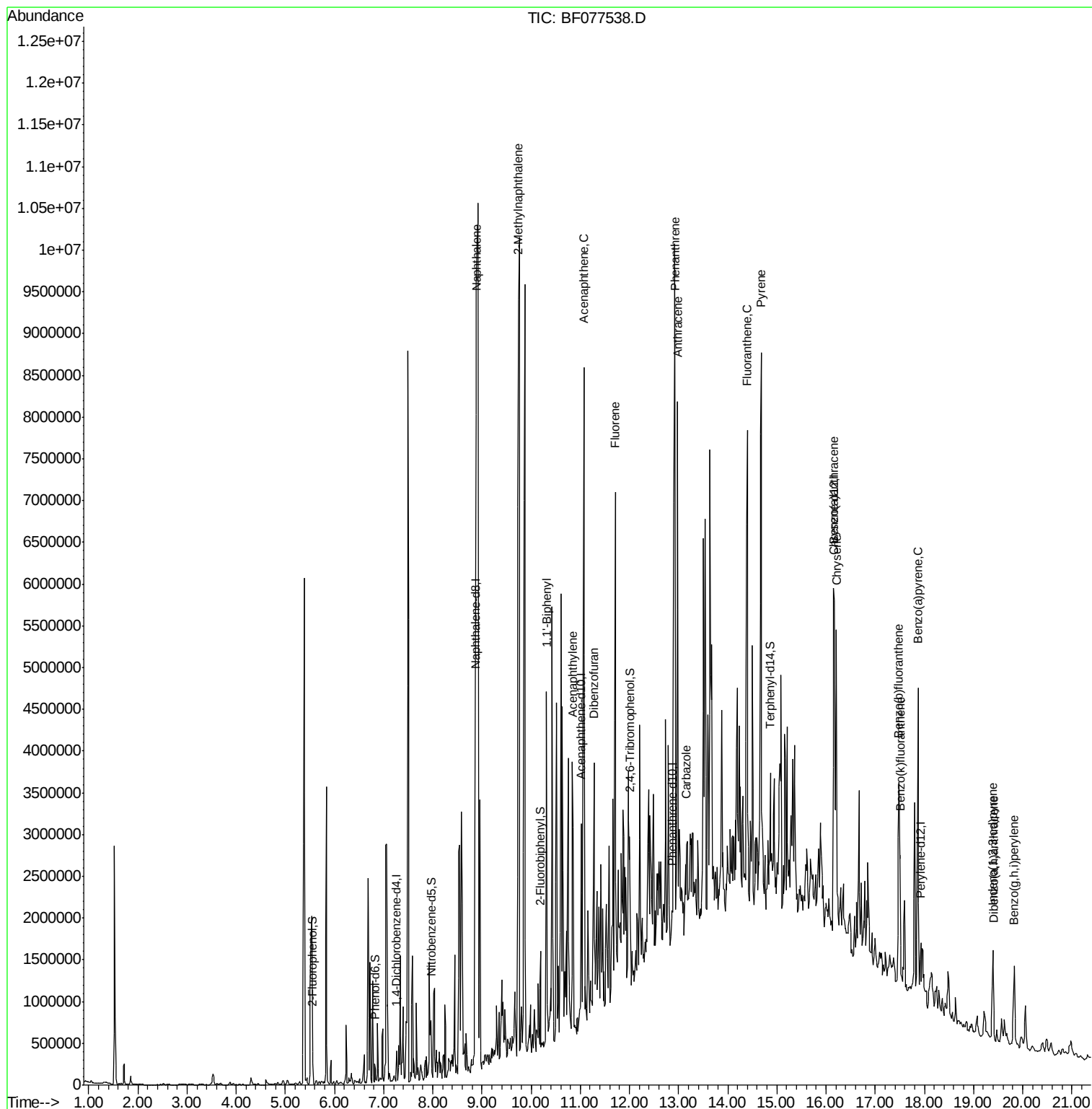
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF030215\
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ALS Vial : 19 Sample Multiplier: 1

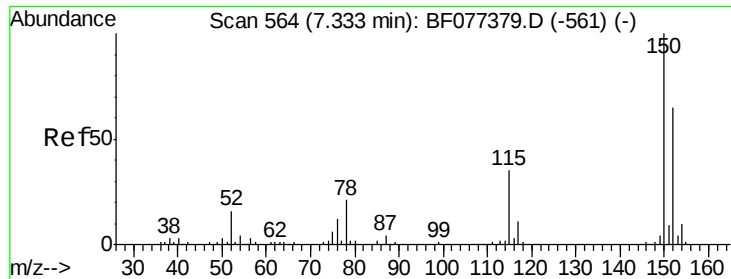
Instrument :
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MW41

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Quant Time: Mar 03 05:58:26 2015
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF021915.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 02 23:46:07 2015
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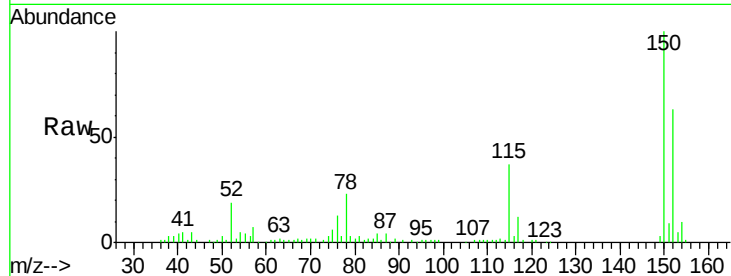




#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.26 min Scan# 558
Delta R.T. 0.01 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

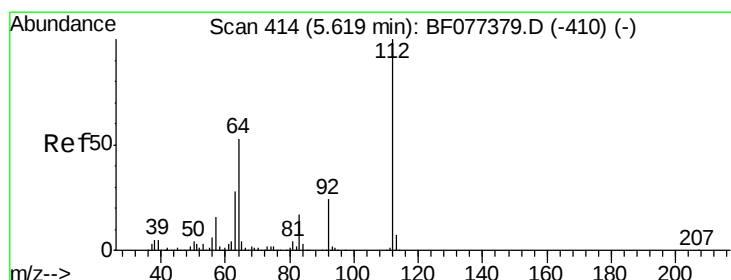
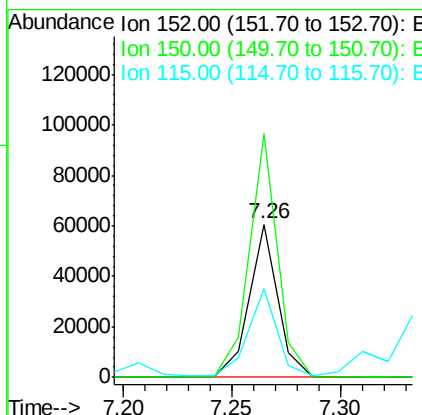
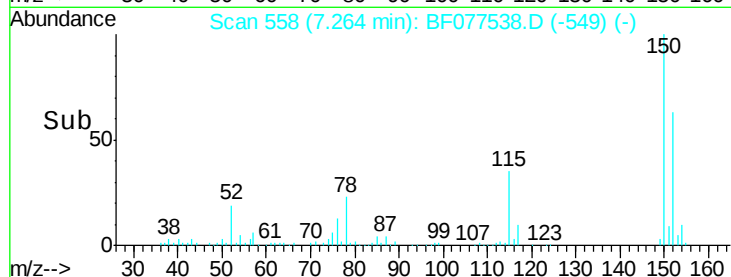
Instrument :
BNA_F
ClientSampleId :
MW41



Tgt Ion	Ratio	Lower	Upper
152	100		
150	159.2	124.0	186.0
115	58.4	49.4	74.2

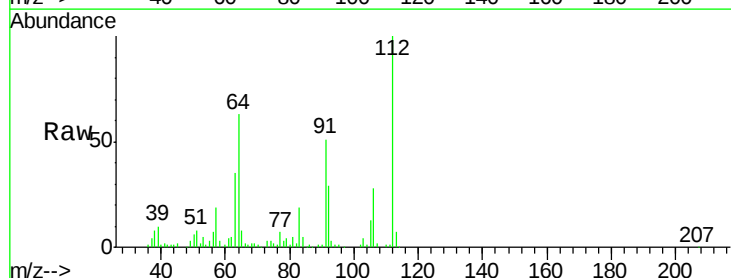
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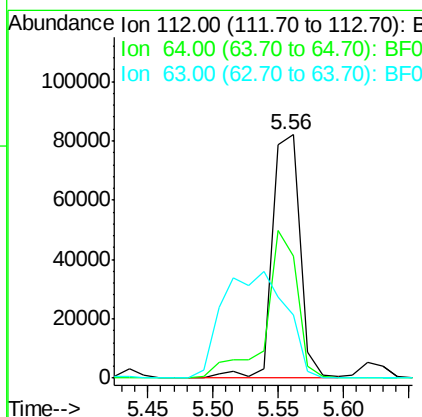
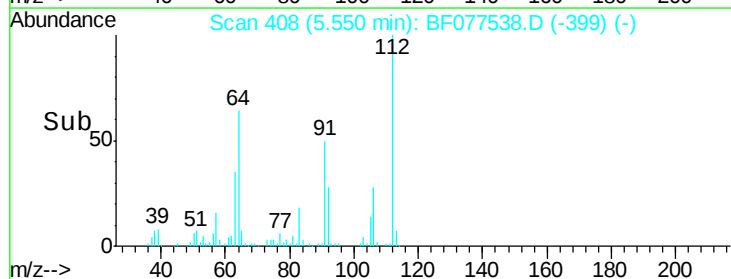


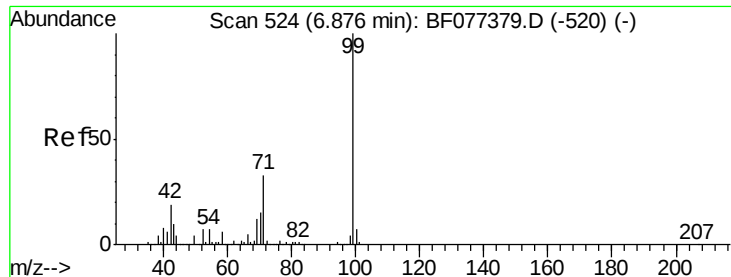
#5

2-Fluorophenol
Concen: 37.01 ng
RT: 5.56 min Scan# 408
Delta R.T. 0.01 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44



Tgt Ion	Ratio	Lower	Upper
112	100		
64	63.5	48.5	72.7
63	34.7	25.0	37.4





#7

Phenol-d6

Concen: 23.17 ng

RT: 6.82 min Scan# 519

Delta R.T. 0.01 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Instrument :

BNA_F

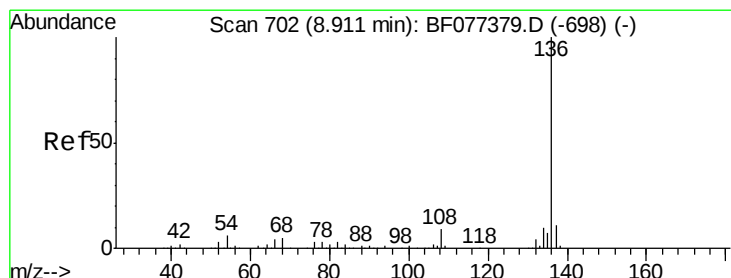
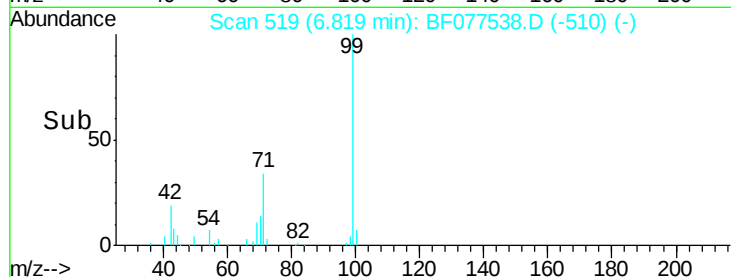
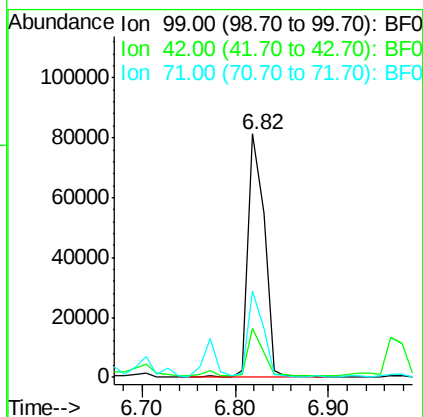
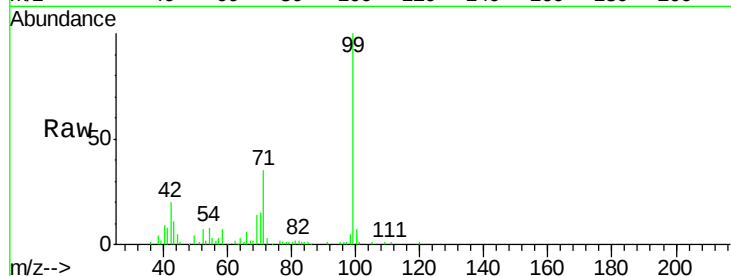
ClientSampled :

MW41

Tgt Ion:	99	Resp:	98469
Ion Ratio	Lower	Upper	
99	100		
42	20.3	16.2	24.4
71	35.4	26.7	40.1

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#21

Naphthalene-d8

Concen: 20.00 ng

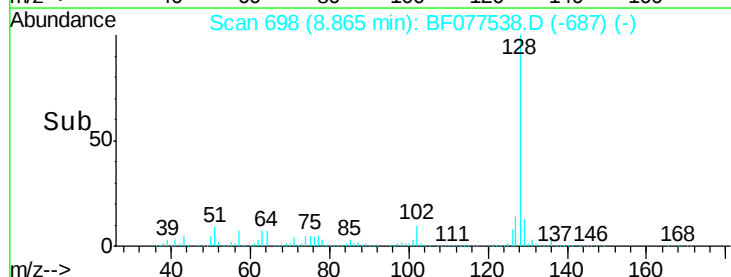
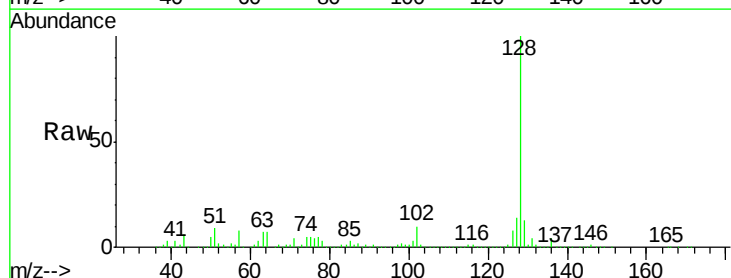
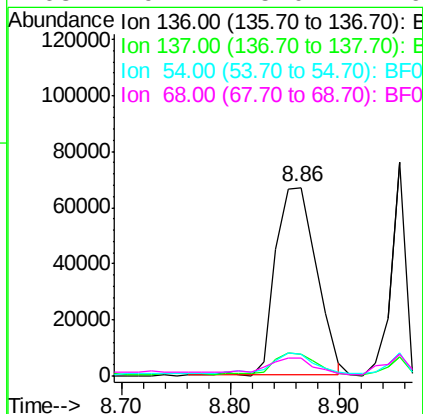
RT: 8.86 min Scan# 698

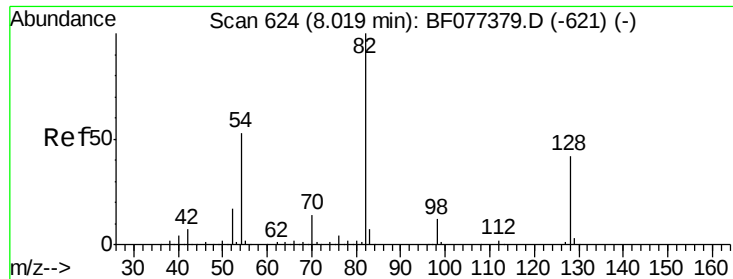
Delta R.T. 0.03 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Tgt Ion:	136	Resp:	175368
Ion Ratio	Lower	Upper	
136	100		
137	11.3	8.6	13.0
54	11.6	6.2	9.4#
68	9.2	5.0	7.6#





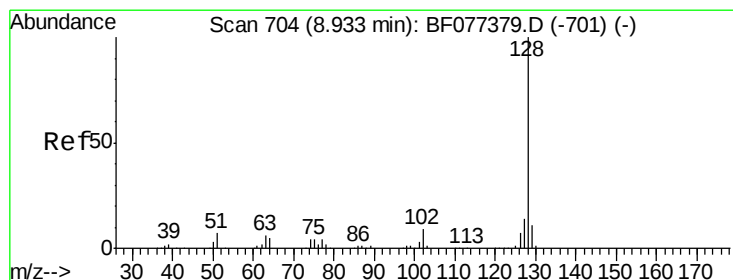
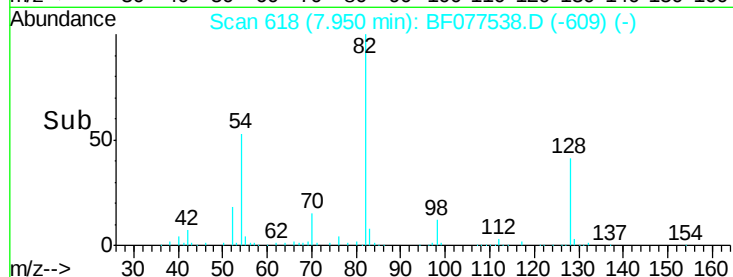
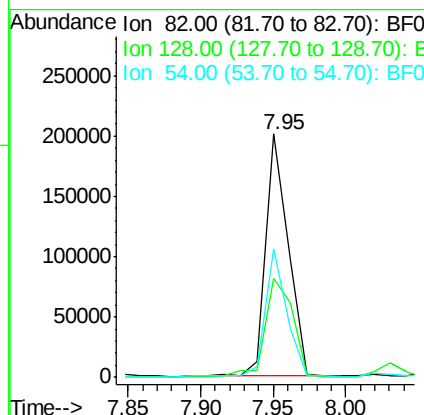
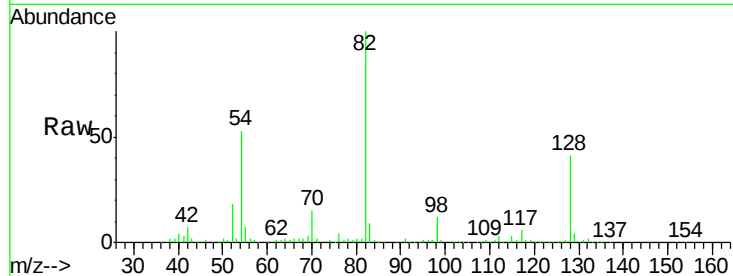
#23
Nitrobenzene-d5
Concen: 76.00 ng
RT: 7.95 min Scan# 618
Delta R.T. 0.00 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

Instrument :
BNA_F
ClientSampleId :
MW41

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.6	43.8	65.8#
54	53.0	36.7	55.1

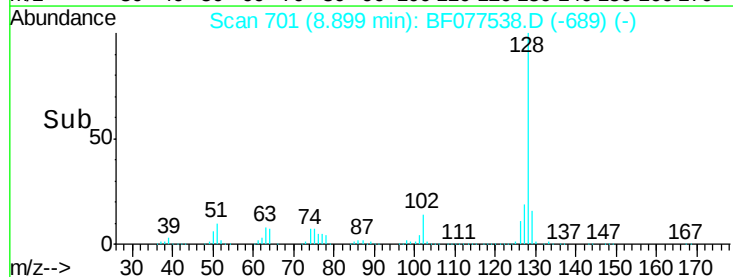
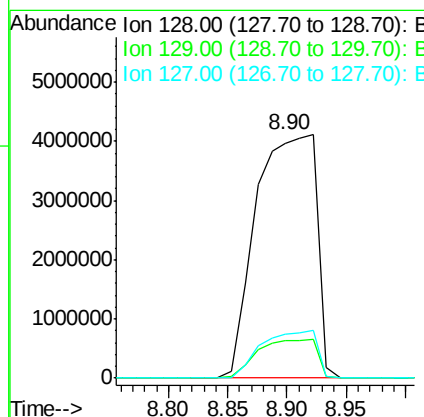
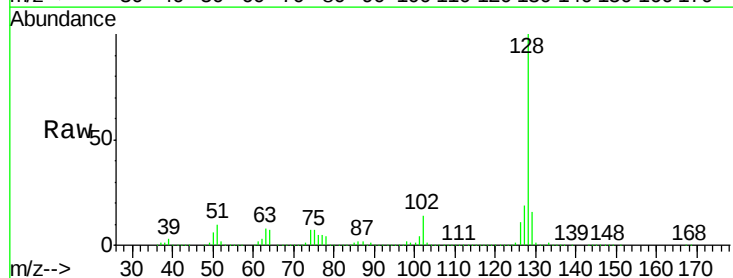
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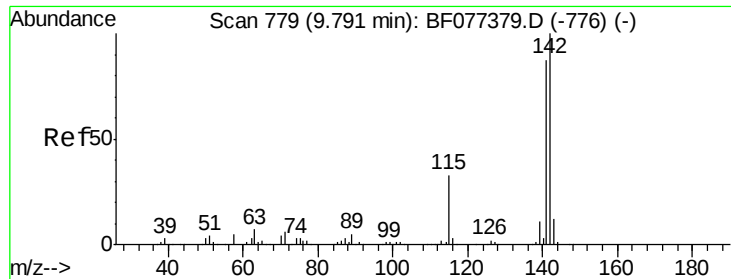
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#31
Naphthalene
Concen: 1650.94 ng
RT: 8.90 min Scan# 701
Delta R.T. 0.04 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	15.8	9.4	14.0#
127	18.6	10.6	15.8#





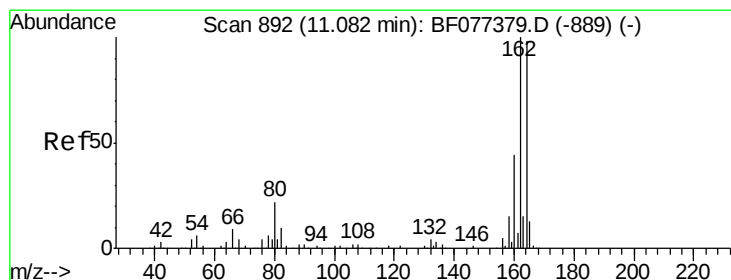
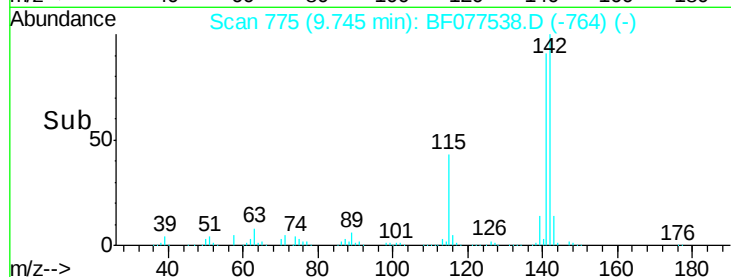
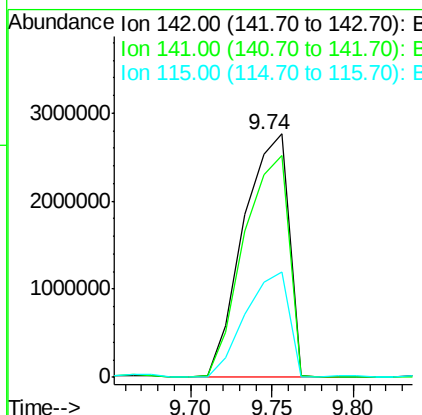
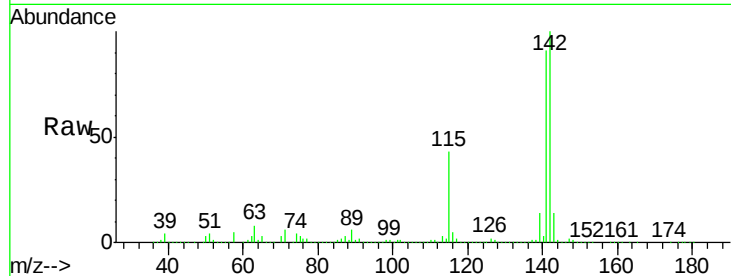
#37
 2-Methylnaphthalene
 Concen: 853.76 ng
 RT: 9.74 min Scan# 775
 Delta R.T. 0.02 min
 Lab File: BF077538.D
 Acq: 2 Mar 2015 22:44

Instrument :
 BNA_F
 ClientSampleId :
 MW41

Tgt Ion:142 Resp: 5317139
 Ion Ratio Lower Upper
 142 100
 141 91.1 70.7 106.1
 115 42.9 24.2 36.4#

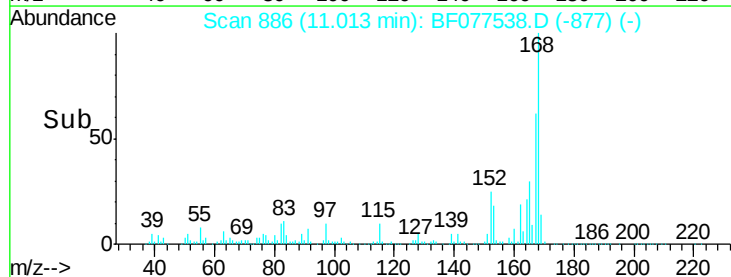
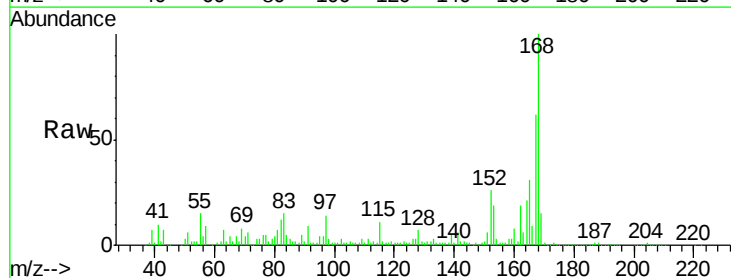
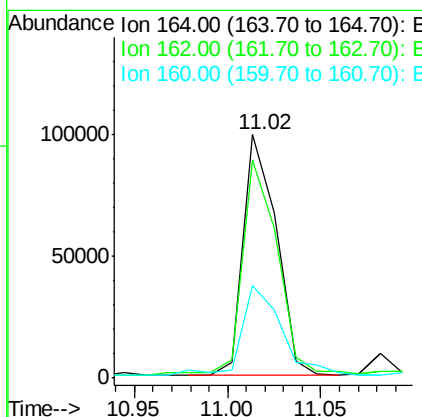
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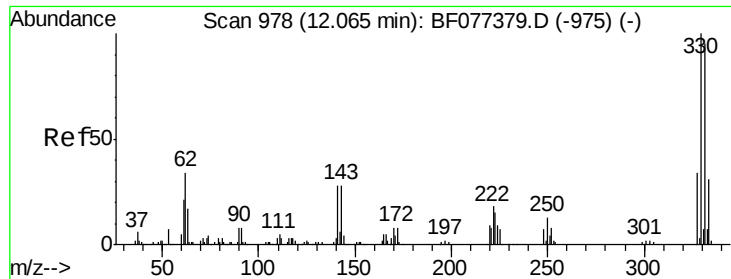
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#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.02 min Scan# 886
 Delta R.T. 0.01 min
 Lab File: BF077538.D
 Acq: 2 Mar 2015 22:44

Tgt Ion:164 Resp: 120658
 Ion Ratio Lower Upper
 164 100
 162 89.3 83.2 124.8
 160 37.9 34.6 52.0





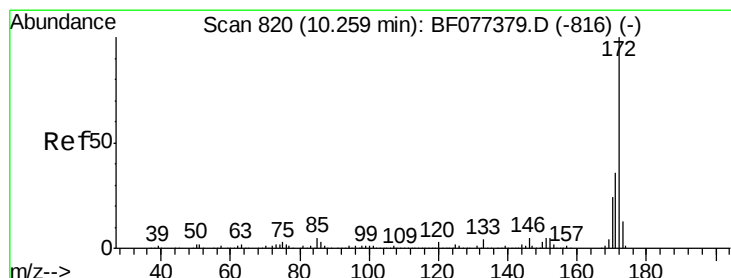
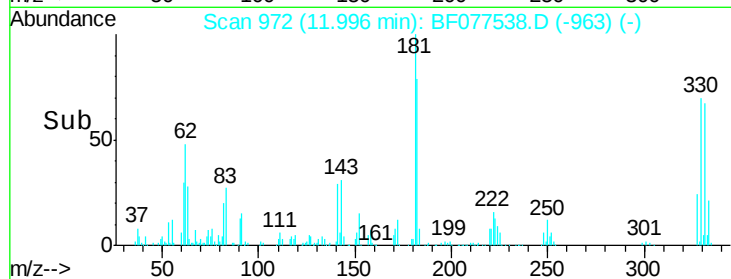
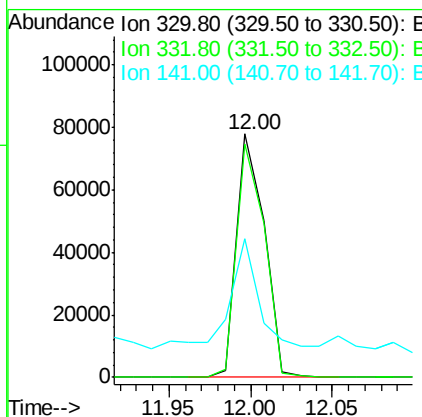
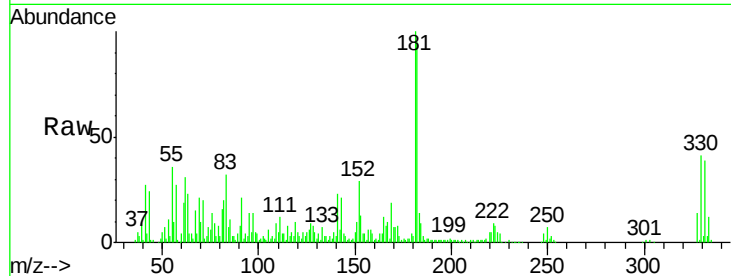
#41
 2,4,6-Tribromophenol
 Concen: 78.45 ng
 RT: 12.00 min Scan# 972
 Delta R.T. 0.01 min
 Lab File: BF077538.D
 Acq: 2 Mar 2015 22:44

Instrument :
 BNA_F
 ClientSampled :
 MW41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.4	116.2
141	47.4	28.8	43.2

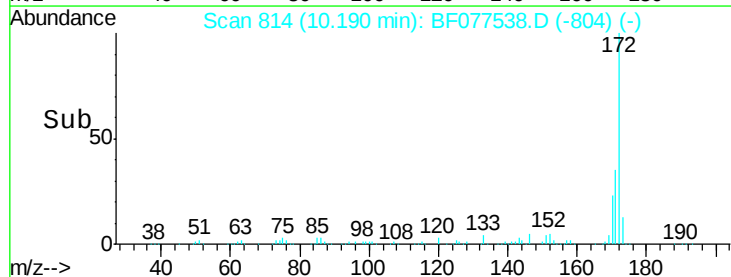
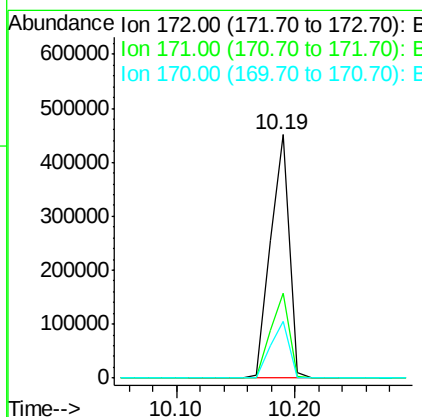
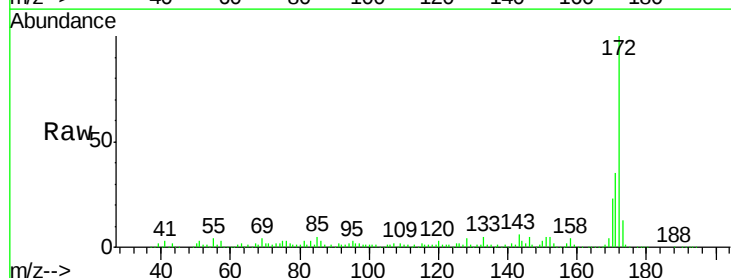
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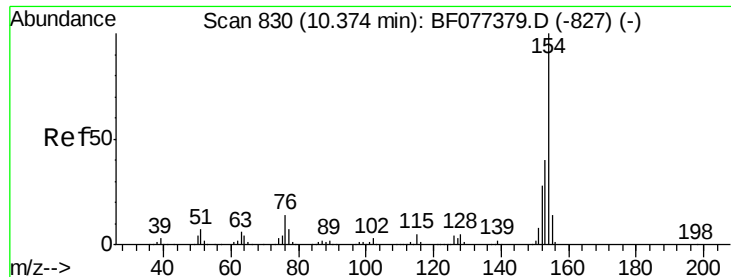
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#44
 2-Fluorobiphenyl
 Concen: 64.32 ng
 RT: 10.19 min Scan# 814
 Delta R.T. 0.01 min
 Lab File: BF077538.D
 Acq: 2 Mar 2015 22:44

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.8	28.9	43.3
170	23.2	19.4	29.2





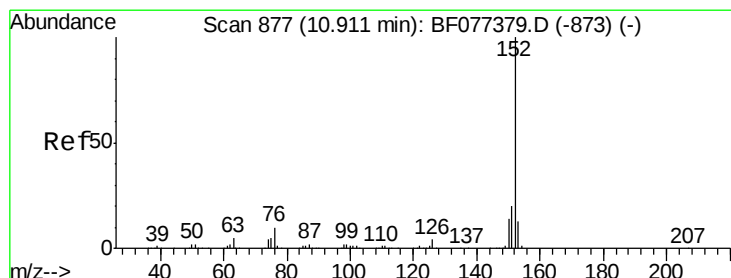
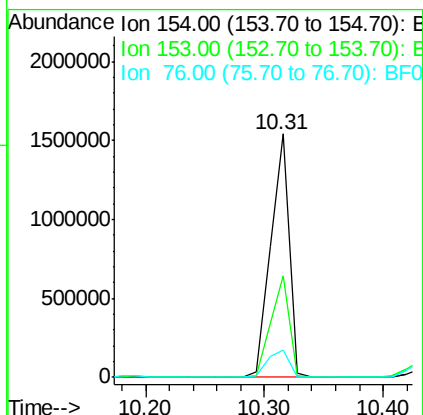
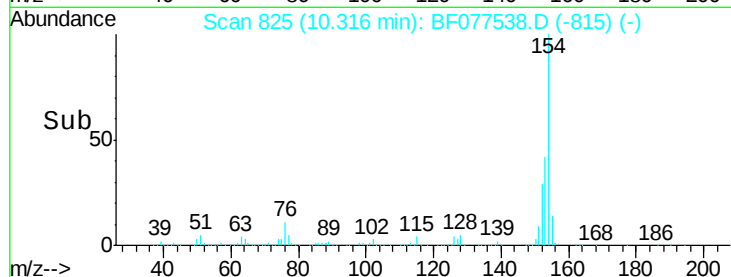
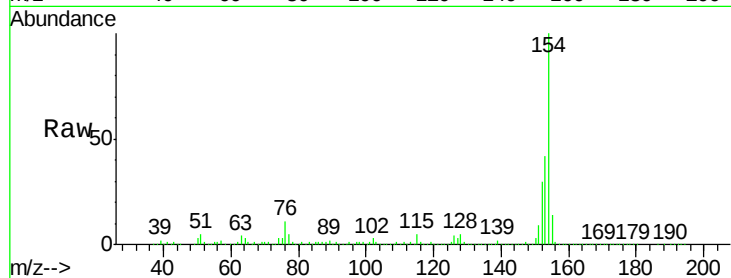
#45
1,1'-Biphenyl
Concen: 182.72 ng
RT: 10.31 min Scan# 825
Delta R.T. 0.01 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

Instrument :
BNA_F
ClientSampleId :
MW41

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.8	20.2	60.2
76	11.0	0.0	29.4

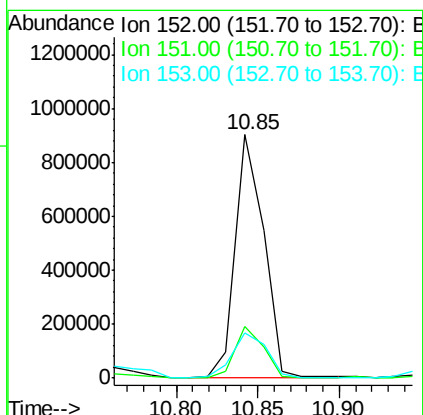
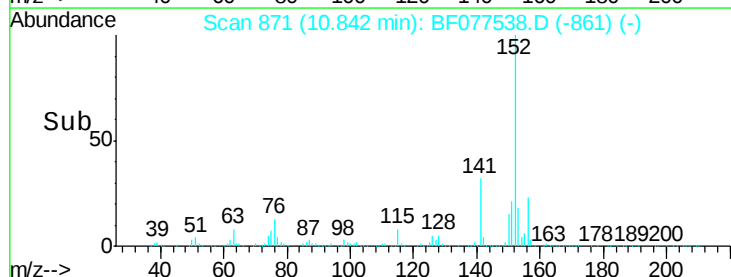
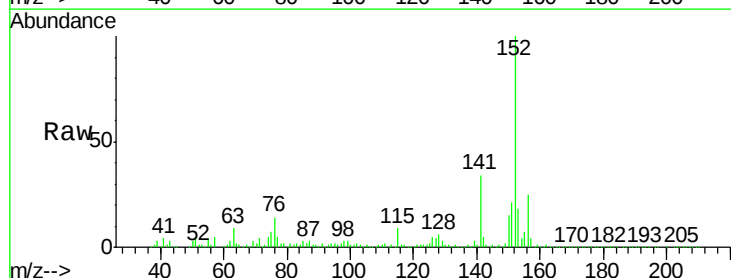
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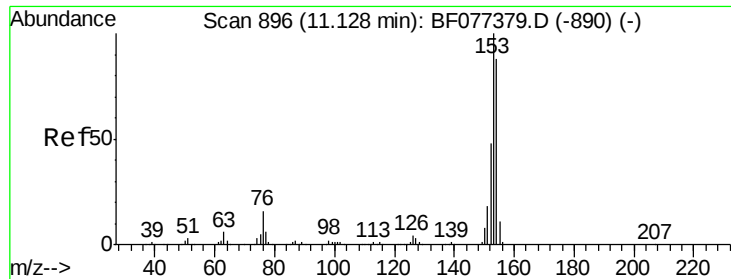
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#48
Acenaphthylene
Concen: 94.95 ng
RT: 10.85 min Scan# 871
Delta R.T. 0.01 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.1	24.1
153	18.4	10.9	16.3#





#51

Acenaphthene

Concen: 421.01 ng

RT: 11.07 min Scan# 891

Delta R.T. 0.02 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Instrument :

BNA_F

ClientSampleId :

MW41

Tgt Ion:154 Resp: 2851328

Ion Ratio Lower Upper

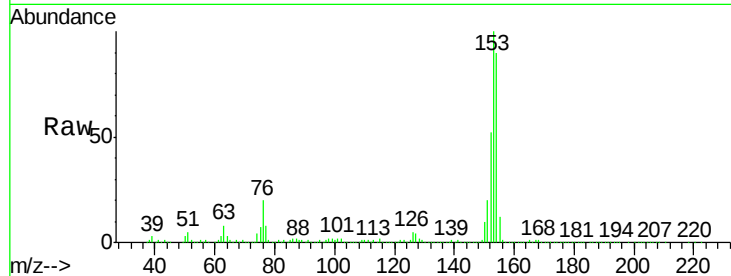
154 100

153 111.1 90.5 135.7

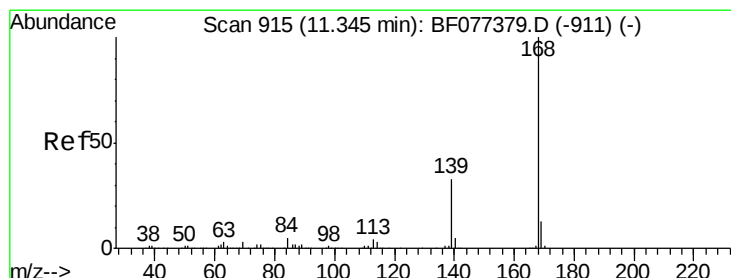
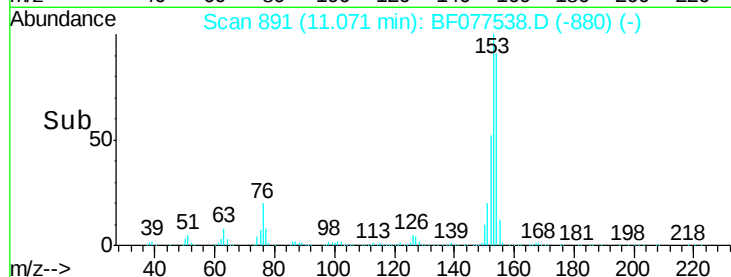
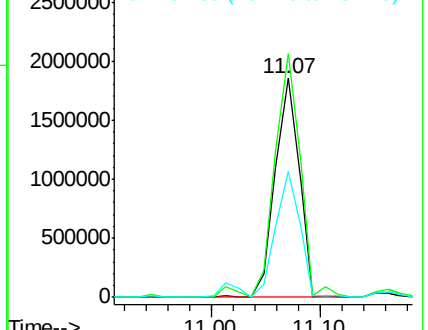
152 57.5 43.5 65.3

Manual Integrations
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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: 63.94 ng

RT: 11.27 min Scan# 909

Delta R.T. 0.01 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

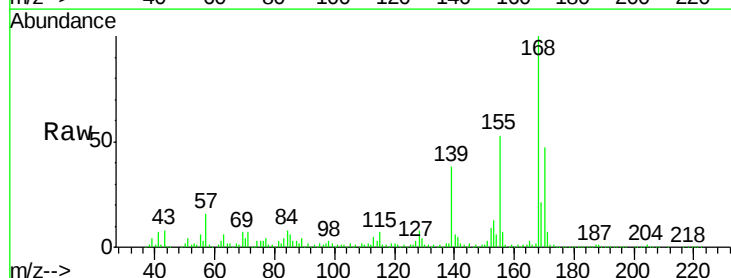
Tgt Ion:168 Resp: 668666

Ion Ratio Lower Upper

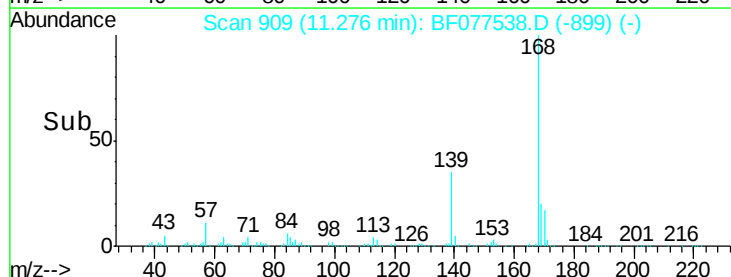
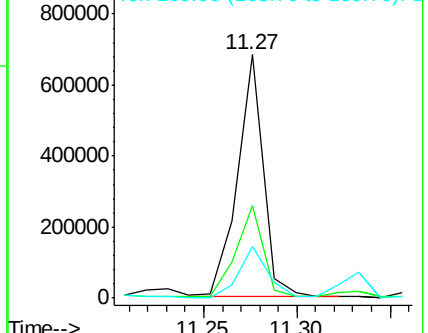
168 100

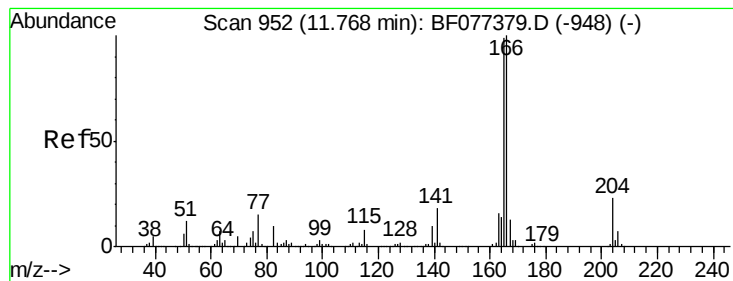
139 38.1 29.3 43.9

169 21.3 10.9 16.3#



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: 275.40 ng

RT: 11.71 min Scan# 947

Delta R.T. 0.02 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Instrument :

BNA_F

ClientSampleId :

MW41

Tgt Ion:166 Resp: 2302345

Ion Ratio Lower Upper

166 100

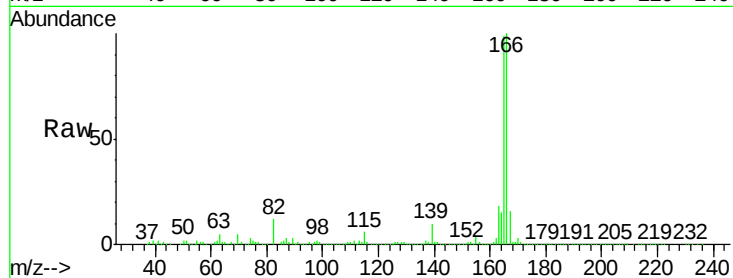
165 99.1 77.6 116.4

167 15.7 10.6 16.0

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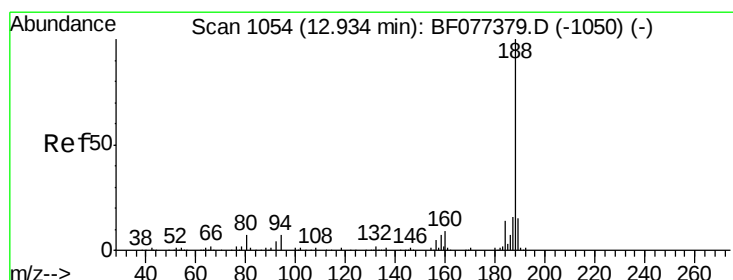
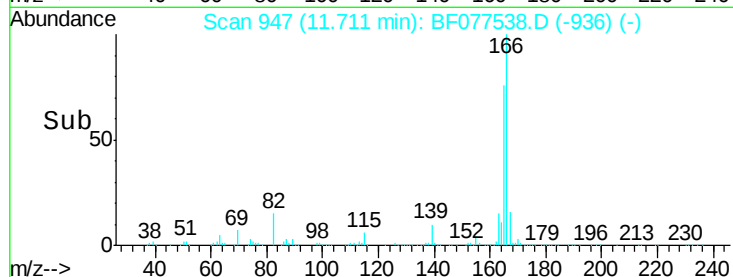
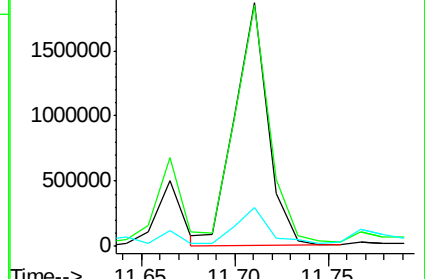
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Abundance Ion 166.00 (165.70 to 166.70): E

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

RT: 12.87 min Scan# 1049

Delta R.T. 0.02 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

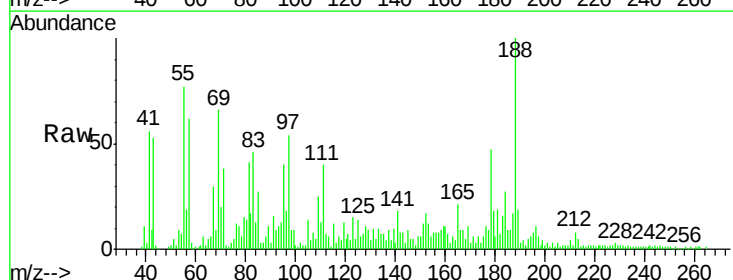
Tgt Ion:188 Resp: 200110

Ion Ratio Lower Upper

188 100

94 13.1 7.4 11.2#

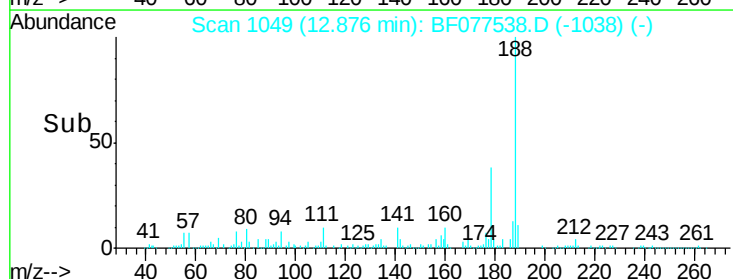
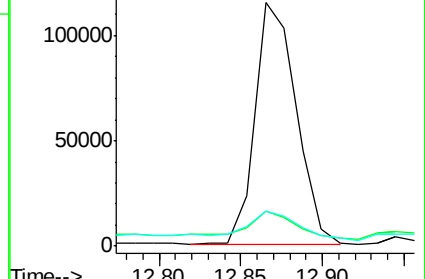
80 13.8 8.0 12.0#

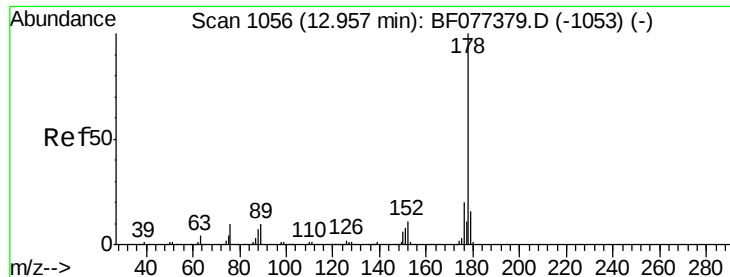


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





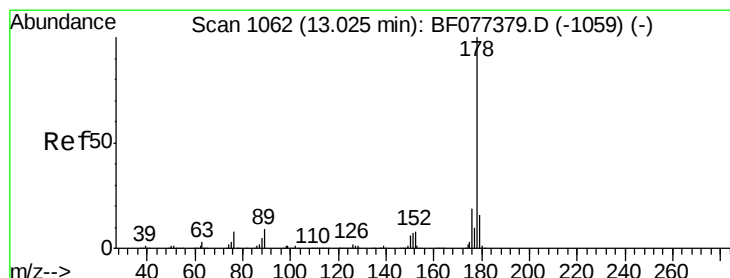
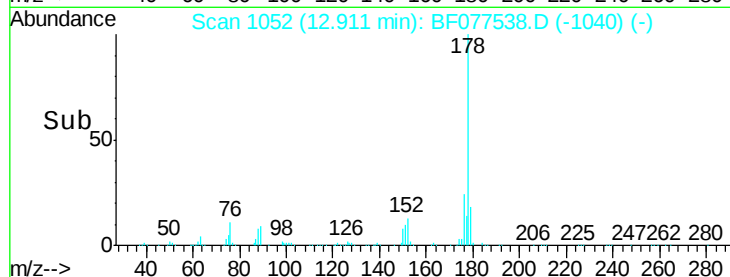
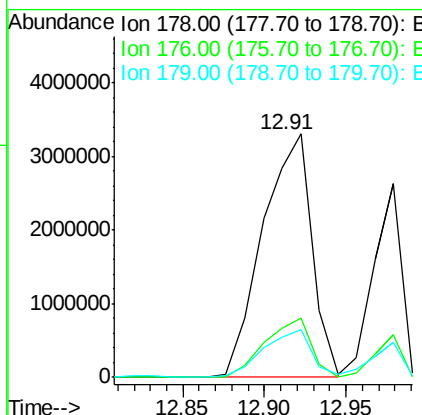
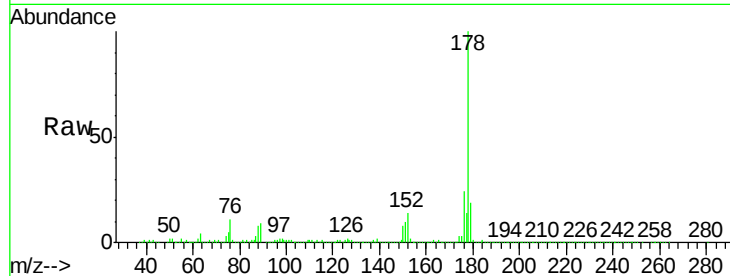
#70
Phenanthrene
Concen: 594.67 ng
RT: 12.91 min Scan# 1052
Delta R.T. 0.03 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

Instrument :
BNA_F
ClientSampleId :
MW41

Tgt Ion:178 Resp: 6897119
Ion Ratio Lower Upper
178 100
176 23.7 15.5 23.3#
179 19.0 12.2 18.2#

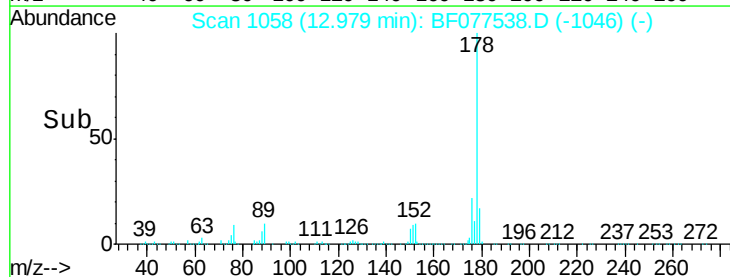
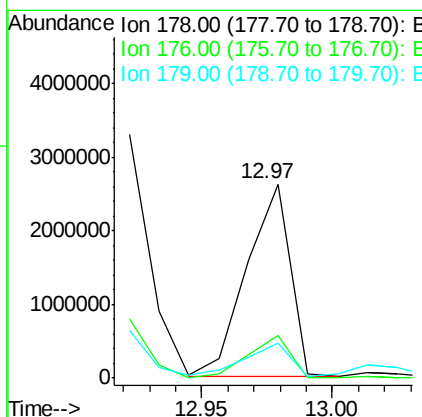
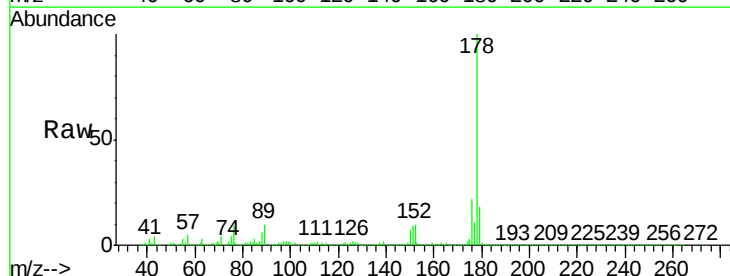
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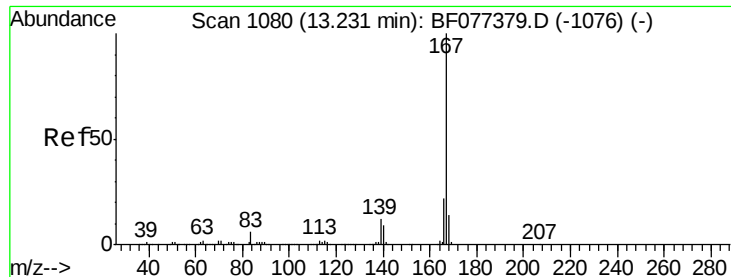
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#71
Anthracene
Concen: 265.03 ng
RT: 12.97 min Scan# 1058
Delta R.T. 0.03 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

Tgt Ion:178 Resp: 3050471
Ion Ratio Lower Upper
178 100
176 21.8 15.4 23.0
179 17.7 12.9 19.3





#72

Carbazole

Concen: 37.94 ng

RT: 13.16 min Scan# 1074

Delta R.T. 0.02 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Instrument :

BNA_F

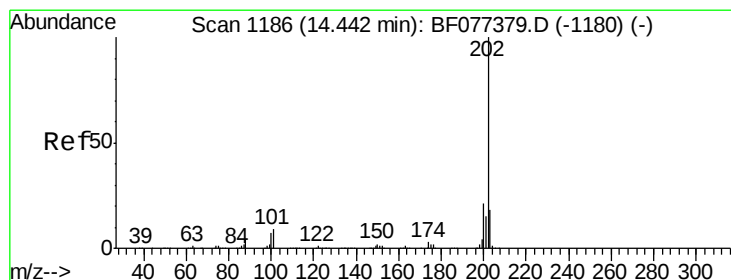
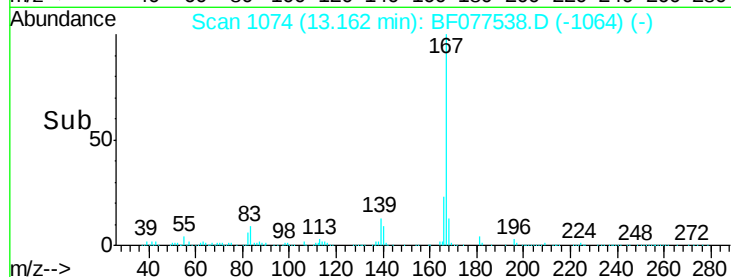
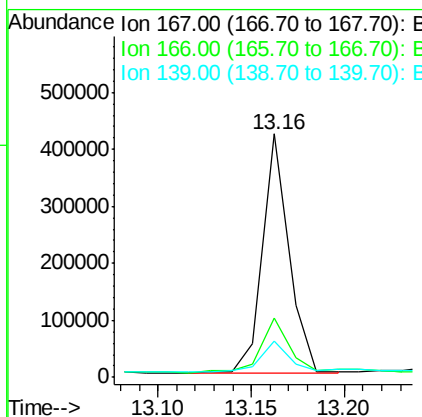
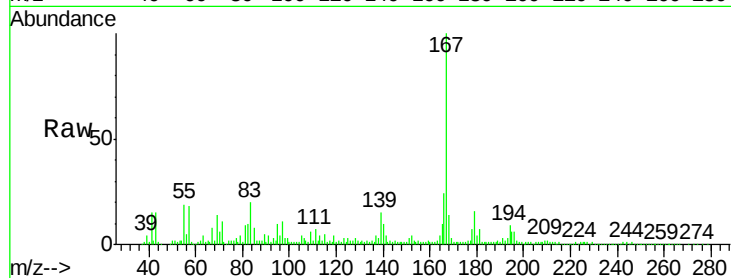
ClientSampleId :

MW41

Tgt Ion:	167	Resp:	415208
Ion Ratio		Lower	Upper
167	100		
166	24.2	17.6	26.4
139	15.1	9.9	14.9

Manual Integrations
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#74

Fluoranthene

Concen: 295.87 ng

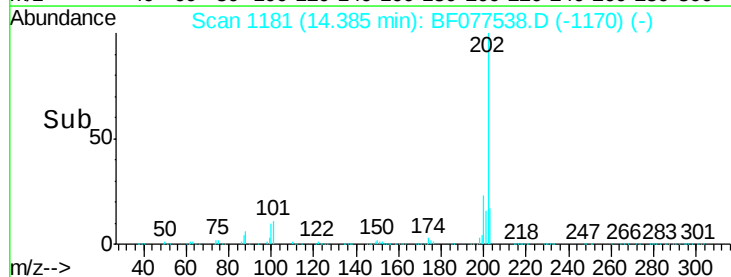
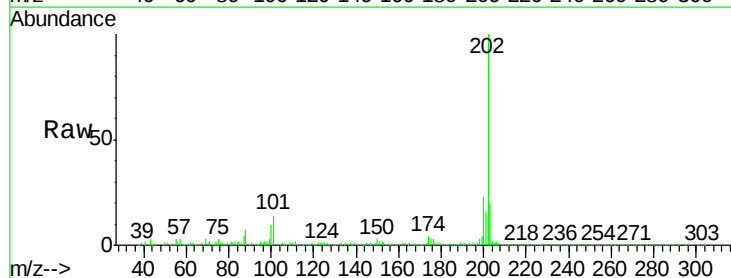
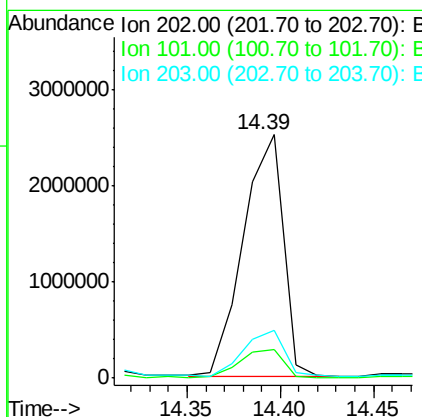
RT: 14.39 min Scan# 1181

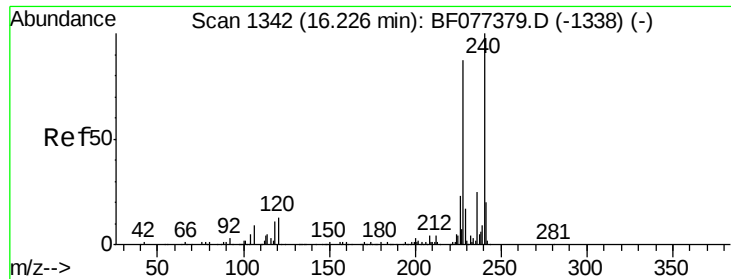
Delta R.T. 0.03 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Tgt Ion:	202	Resp:	3748463
Ion Ratio		Lower	Upper
202	100		
101	13.5	0.0	30.8
203	20.1	0.0	37.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.17 min Scan# 1337

Delta R.T. 0.04 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Instrument :

BNA_F

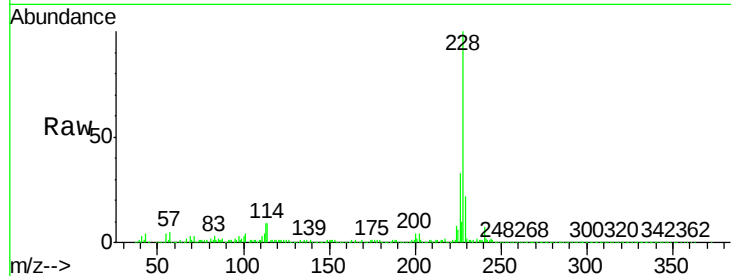
ClientSampleId :

MW41

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	197670		
120	20.3	8.8	13.2#	
236	28.0	20.7	31.1	

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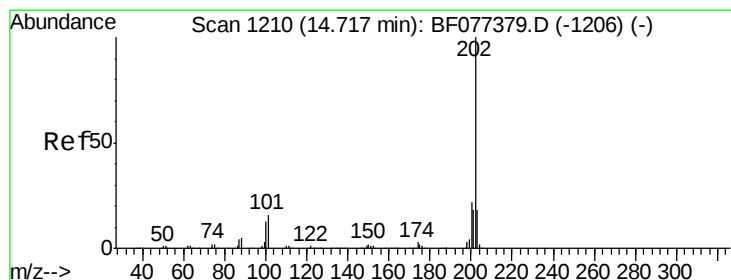
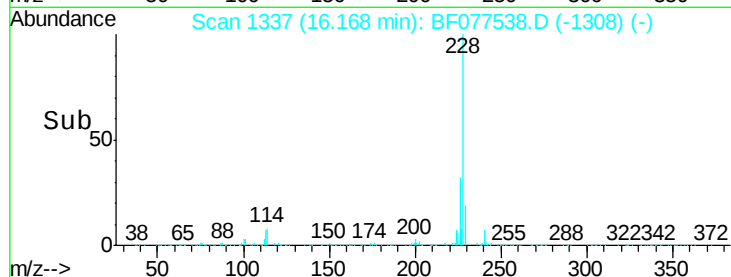
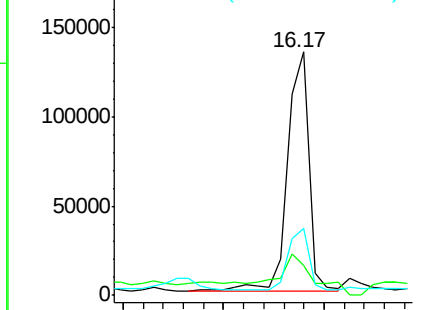
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 409.86 ng

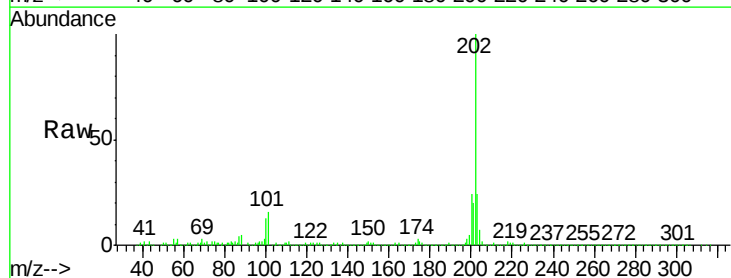
RT: 14.67 min Scan# 1206

Delta R.T. 0.04 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

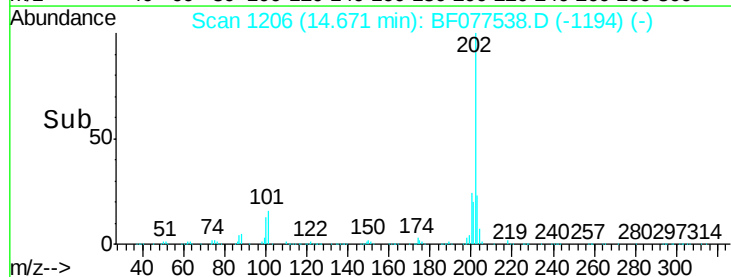
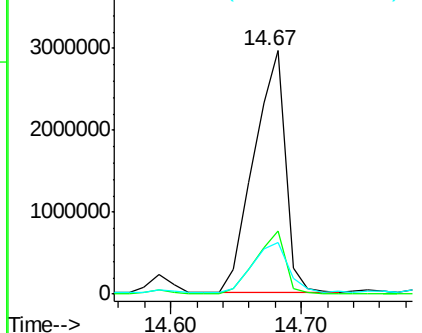
Tgt Ion	Ratio	Resp	Lower	Upper
202	100	4955909		
200	24.3	17.1	25.7	
203	23.7	14.2	21.2#	

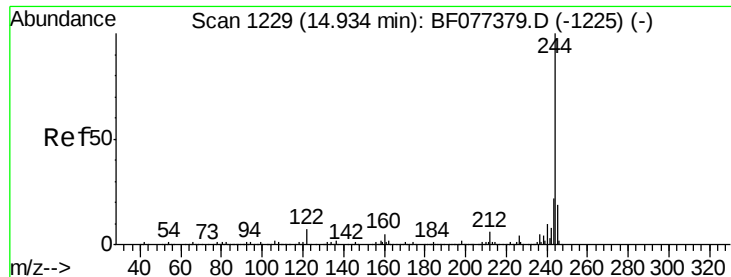


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 60.05 ng

RT: 14.86 min Scan# 1223

Delta R.T. 0.02 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Instrument :

BNA_F

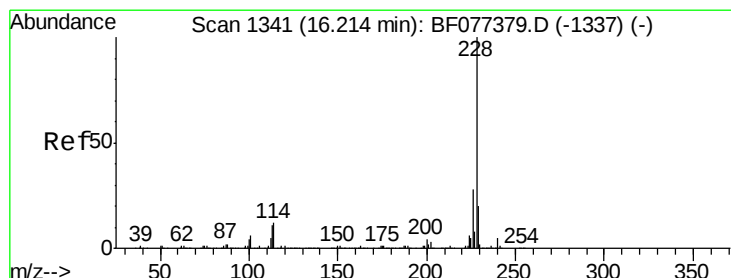
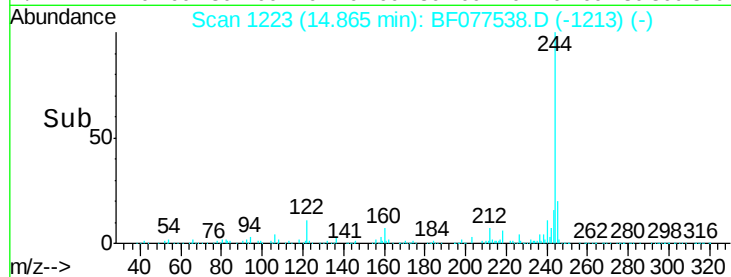
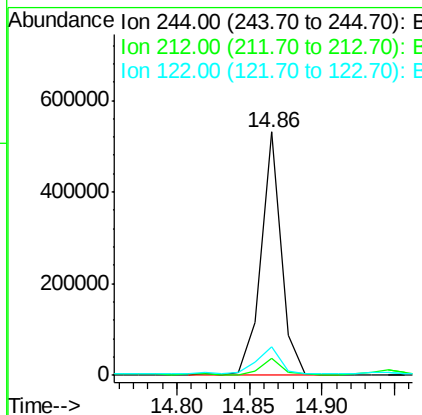
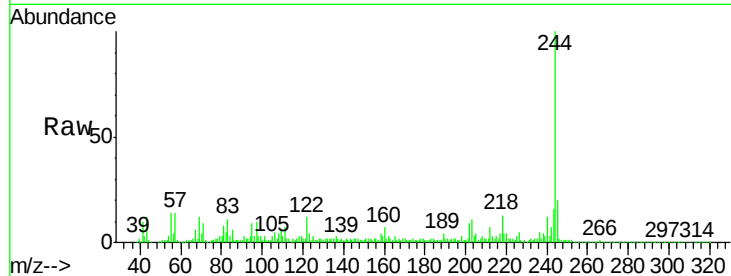
ClientSampleId :

MW41

Tgt Ion:	244	Resp:	507744
Ion Ratio		Lower	Upper
244	100		
212	7.1	5.2	7.8
122	11.5	7.8	11.8

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#80

Benzo(a)anthracene

Concen: 225.57 ng

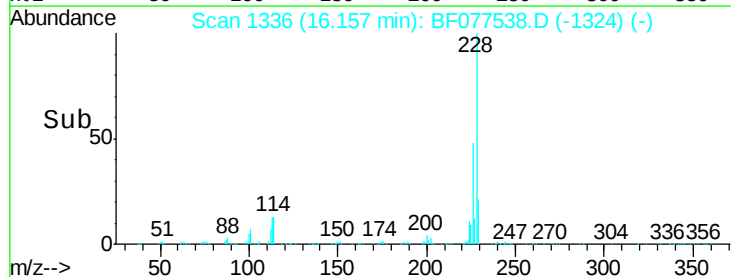
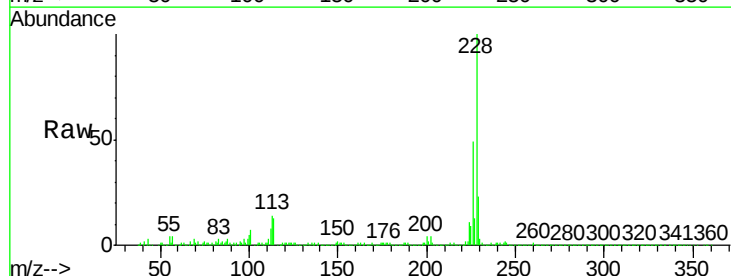
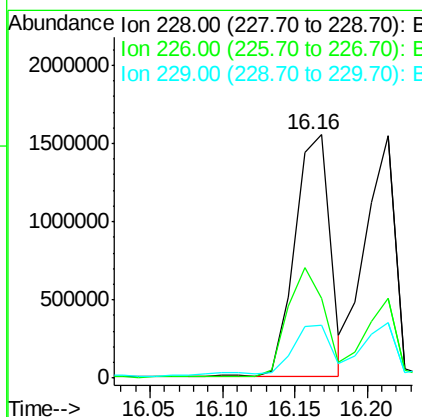
RT: 16.16 min Scan# 1336

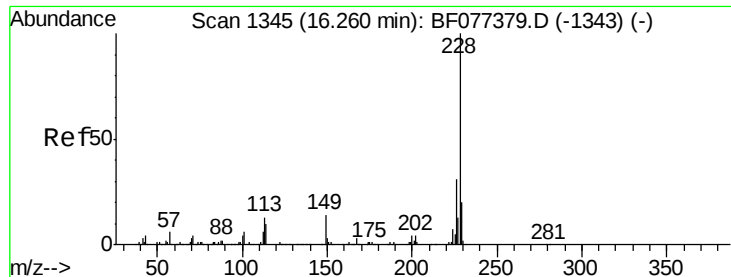
Delta R.T. 0.04 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Tgt Ion:	228	Resp:	2613275
Ion Ratio		Lower	Upper
228	100		
226	48.7	22.0	33.0#
229	22.7	15.8	23.8





#82

Chrysene

Concen: 200.85 ng

RT: 16.20 min Scan# 1340

Delta R.T. 0.04 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Instrument :

BNA_F

ClientSampleId :

MW41

Tgt Ion:228 Resp: 2184944

Ion Ratio Lower Upper

228 100

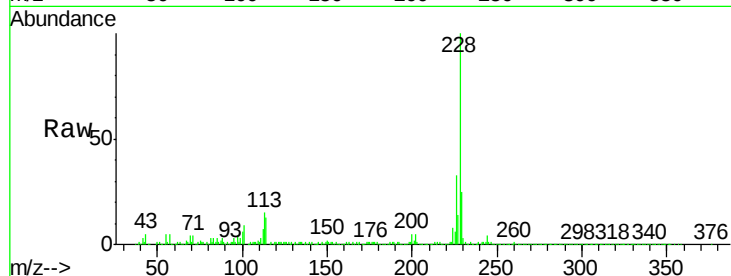
226 32.7 24.9 37.3

229 25.4 16.4 24.6#

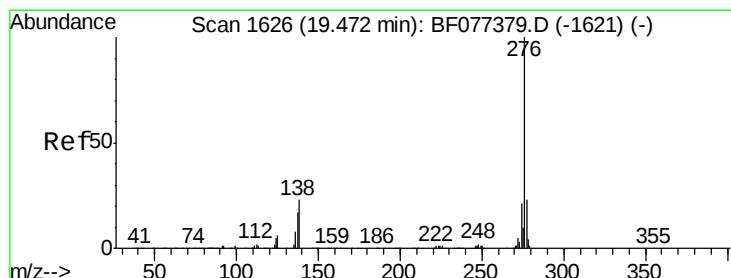
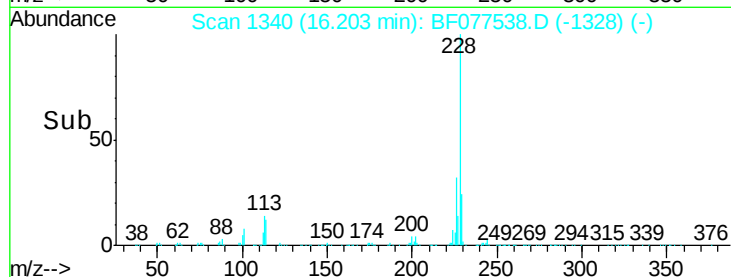
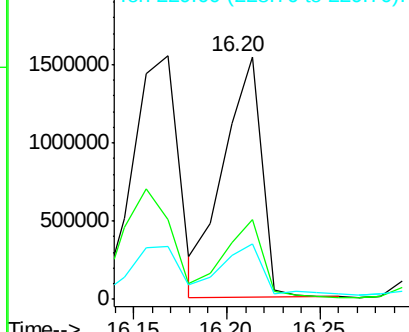
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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 62.24 ng m

RT: 19.39 min Scan# 1619

Delta R.T. 0.11 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

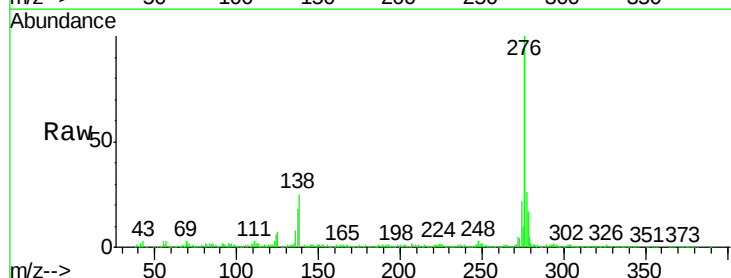
Tgt Ion:276 Resp: 771995

Ion Ratio Lower Upper

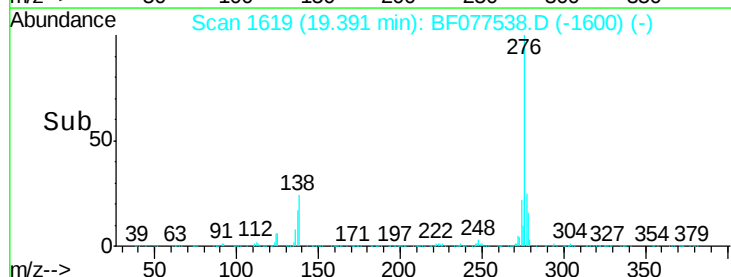
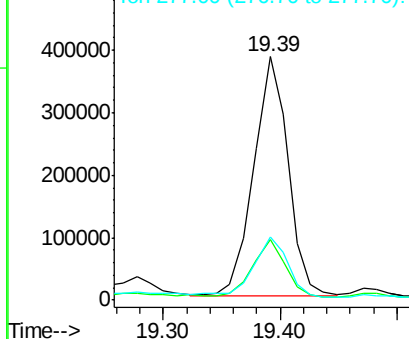
276 100

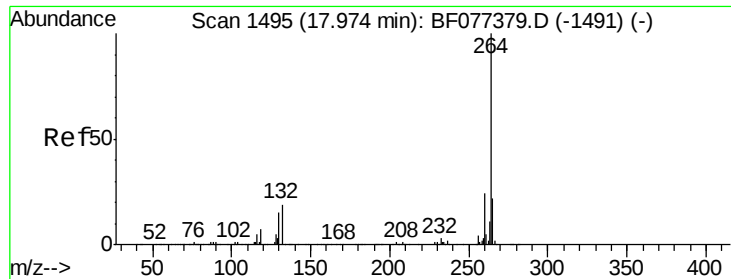
138 0.0 21.2 31.8#

277 0.0 20.0 30.0#



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 17.93 min Scan# 1491

Delta R.T. 0.10 min

Lab File: BF077538.D

Acq: 2 Mar 2015 22:44

Instrument :

BNA_F

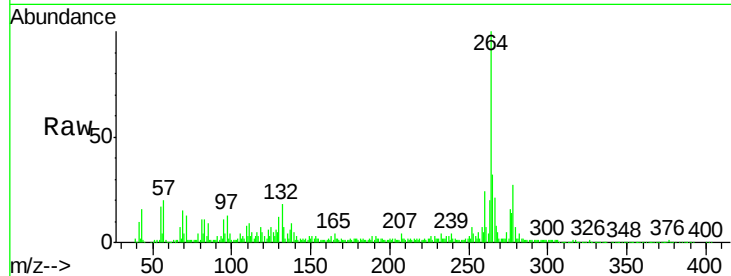
ClientSampleId :

MW41

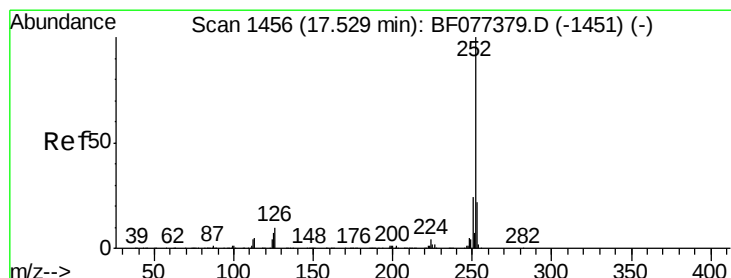
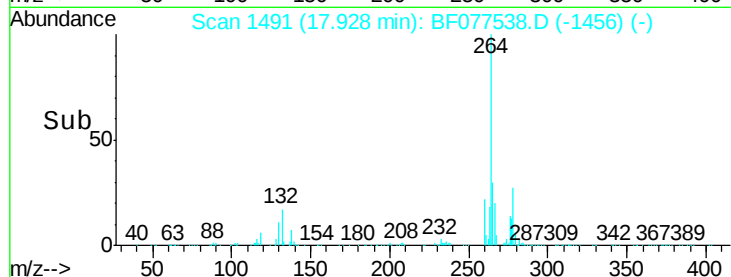
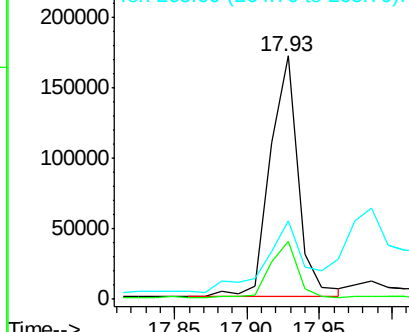
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.1	19.3	28.9
265	32.1	16.8	25.2

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Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 132.76 ng m

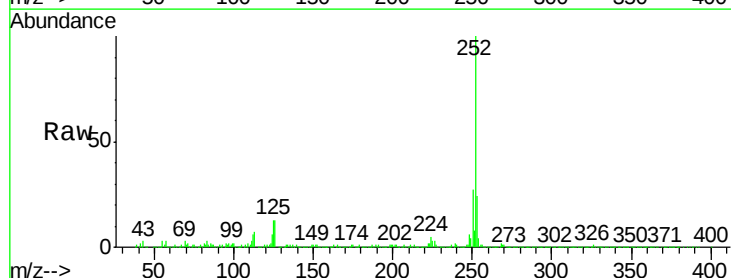
RT: 17.48 min Scan# 1452

Delta R.T. 0.09 min

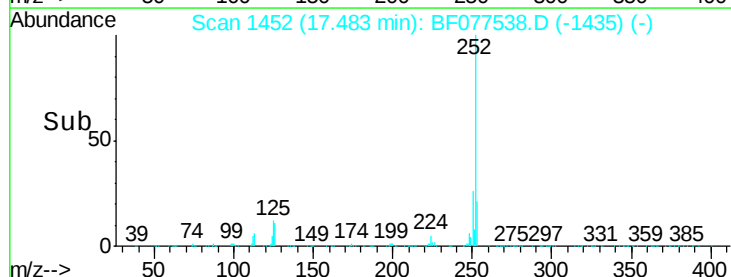
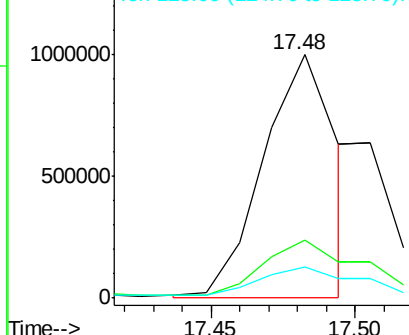
Lab File: BF077538.D

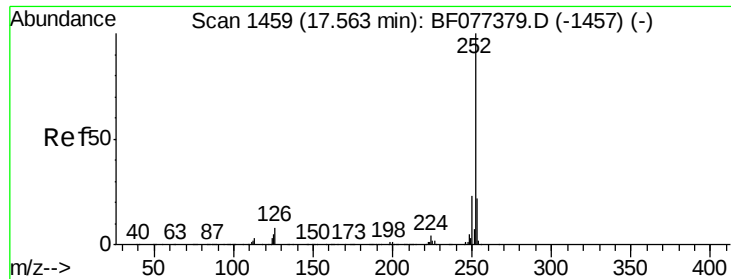
Acq: 2 Mar 2015 22:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.6	26.4
125	13.0	5.4	8.2



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





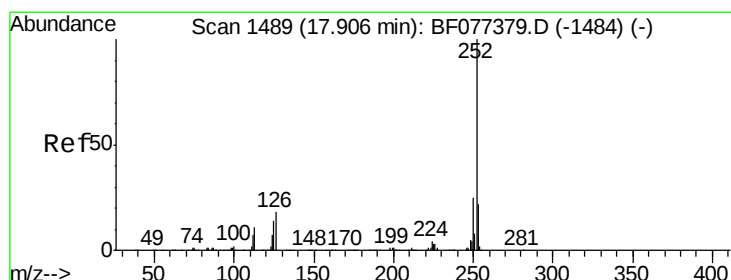
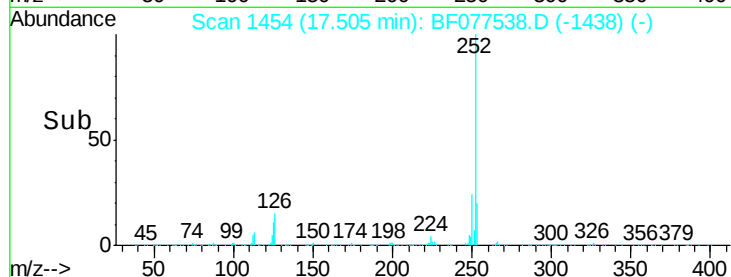
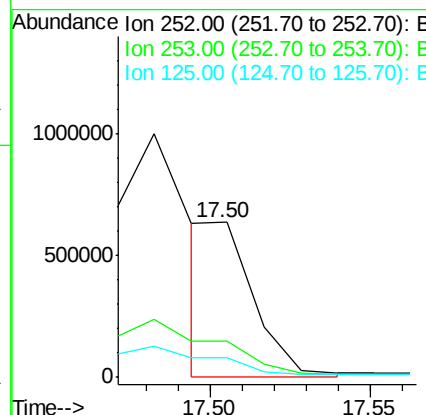
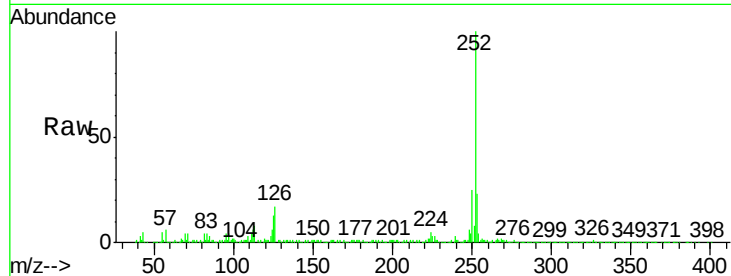
#88
 Benzo(k)fluoranthene
 Concen: 46.53 ng m
 RT: 17.51 min Scan# 1454
 Delta R.T. 0.08 min
 Lab File: BF077538.D
 Acq: 2 Mar 2015 22:44

Instrument :
 BNA_F
 ClientSampleId :
 MW41

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.1	27.1
125	12.8	10.1	15.1

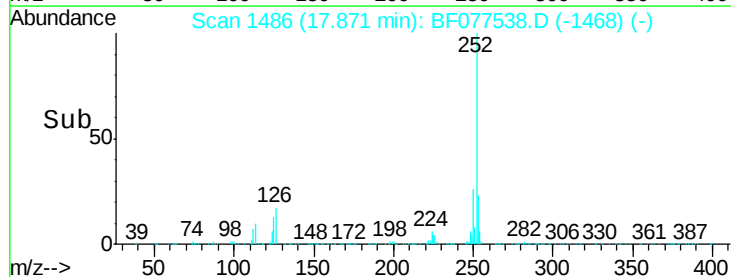
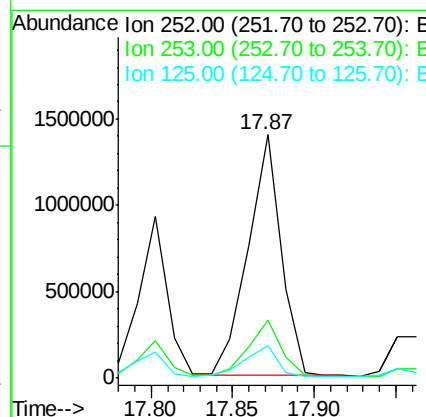
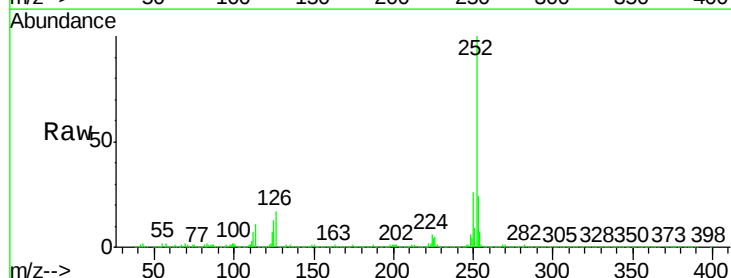
Manual Integrations
 APPROVED

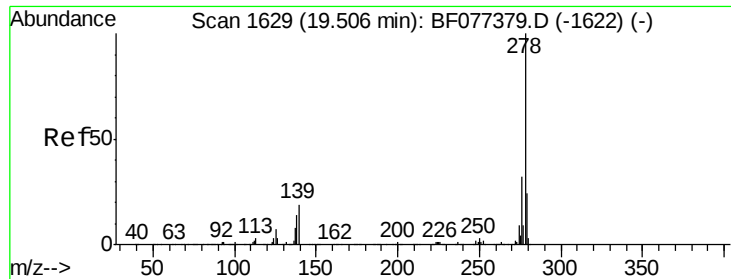
apatel
 3/3/2015 6:26:11 PM



#89
 Benzo(a)pyrene
 Concen: 155.89 ng
 RT: 17.87 min Scan# 1486
 Delta R.T. 0.10 min
 Lab File: BF077538.D
 Acq: 2 Mar 2015 22:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	18.2	27.2
125	13.4	8.3	12.5#





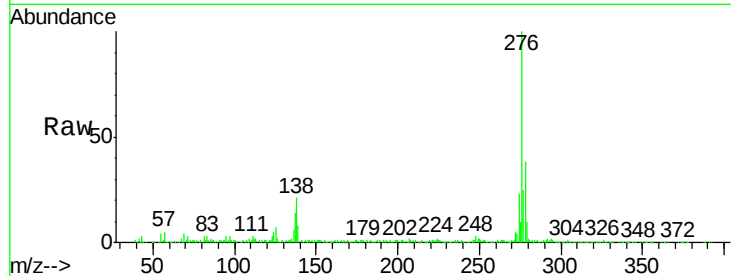
#90
Dibenzo(a,h)anthracene
Concen: 18.09 ng
RT: 19.41 min Scan# 1620
Delta R.T. 0.10 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

Instrument :
BNA_F
ClientSampleId :
MW41

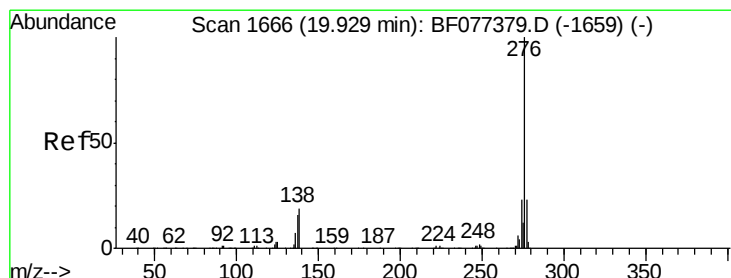
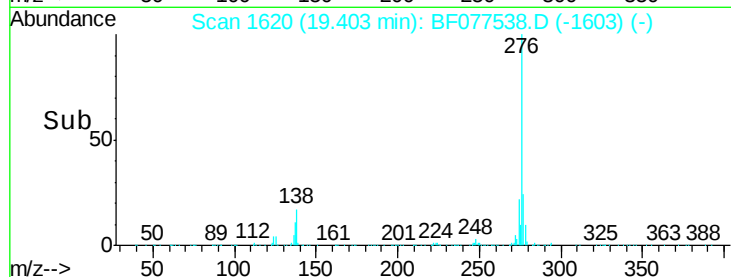
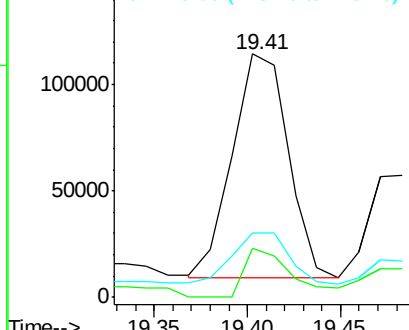
Tgt Ion	Ratio	Lower	Upper
278	100		
139	20.2	14.3	21.5
279	26.3	19.0	28.6

Manual Integrations
APPROVED

apatel
3/3/2015 6:26:11 PM

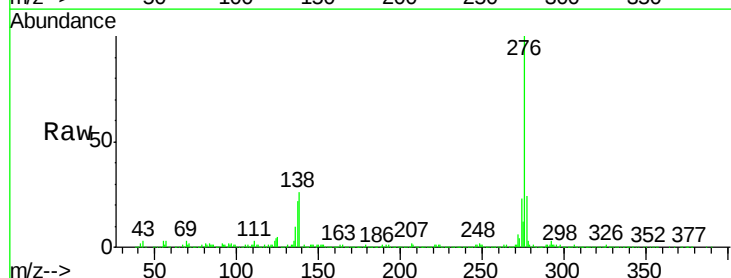


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 71.50 ng m
RT: 19.83 min Scan# 1657
Delta R.T. 0.12 min
Lab File: BF077538.D
Acq: 2 Mar 2015 22:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	18.9	28.3
138	26.3	20.5	30.7



Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

