

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092316\
 Data File : BF090210.D
 Acq On : 23 Sep 2016 21:01
 Operator : UM/SJ
 Sample : H4895-01
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RICHMOND-REC-SELECTFILL

Manual Integrations
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Quant Time: Sep 23 23:44:15 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 23 23:35:22 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.49	152	125289	20.00	ng	0.00
21) Naphthalene-d8	7.78	136	466408	20.00	ng	0.00
38) Acenaphthene-d10	9.52	164	207923	20.00	ng	0.00
63) Phenanthrene-d10	10.98	188	254518	20.00	ng	0.00
75) Chrysene-d12	13.60	240	257130	20.00	ng	0.00
86) Perylene-d12	14.94	264	196630	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.05	112	208602	27.14	ng	0.00
7) Phenol-d6	6.15	99	697425	73.47	ng	0.00
23) Nitrobenzene-d5	7.06	82	525381	65.30	ng	0.00
41) 2,4,6-Tribromophenol	10.31	330	6458	3.62	ng	0.00
44) 2-Fluorobiphenyl	8.86	172	844353	79.72	ng	0.00
78) Terphenyl-d14	12.57	244	605130	59.75	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.16	94	56865	5.07	ng	88
31) Naphthalene	7.80	128	95834	4.32	ng	98
37) 2-Methylnaphthalene	8.49	142	39355	2.85	ng	99
49) Dimethylphthalate	9.26	163	272892	20.61	ng	99
51) Acenaphthene	9.55	154	29865	2.82	ng	99
54) Dibenzofuran	9.72	168	47589	3.42	ng	# 96
57) Fluorene	10.06	166	49448	4.71	ng	99
70) Phenanthrene	11.00	178	294211	24.72	ng	99
71) Anthracene	11.06	178	94591	7.58	ng	98
72) Carbazole	11.22	167	32597	2.47	ng	# 94
74) Fluoranthene	12.19	202	269649	21.10	ng	90
77) Pvrene	12.41	202	236727	13.45	ng	98
80) Benzo(a)anthracene	13.59	228	115510	8.35	ng	# 91
82) Chrysene	13.62	228	92232m	6.84	ng	
83) Bis(2-ethylhexyl)phthalate	13.62	149	28662	2.60	ng	# 96
85) Indeno(1,2,3-cd)pyrene	16.09	276	34942	3.21	ng	96
87) Benzo(b)fluoranthene	14.59	252	112270m	10.31	ng	
88) Benzo(k)fluoranthene	14.61	252	21223m	2.08	ng	
89) Benzo(a)pvrene	14.88	252	67753	6.62	ng	# 83
91) Benzo(a,h,i)perylene	16.43	276	32765	4.19	ng	# 94

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

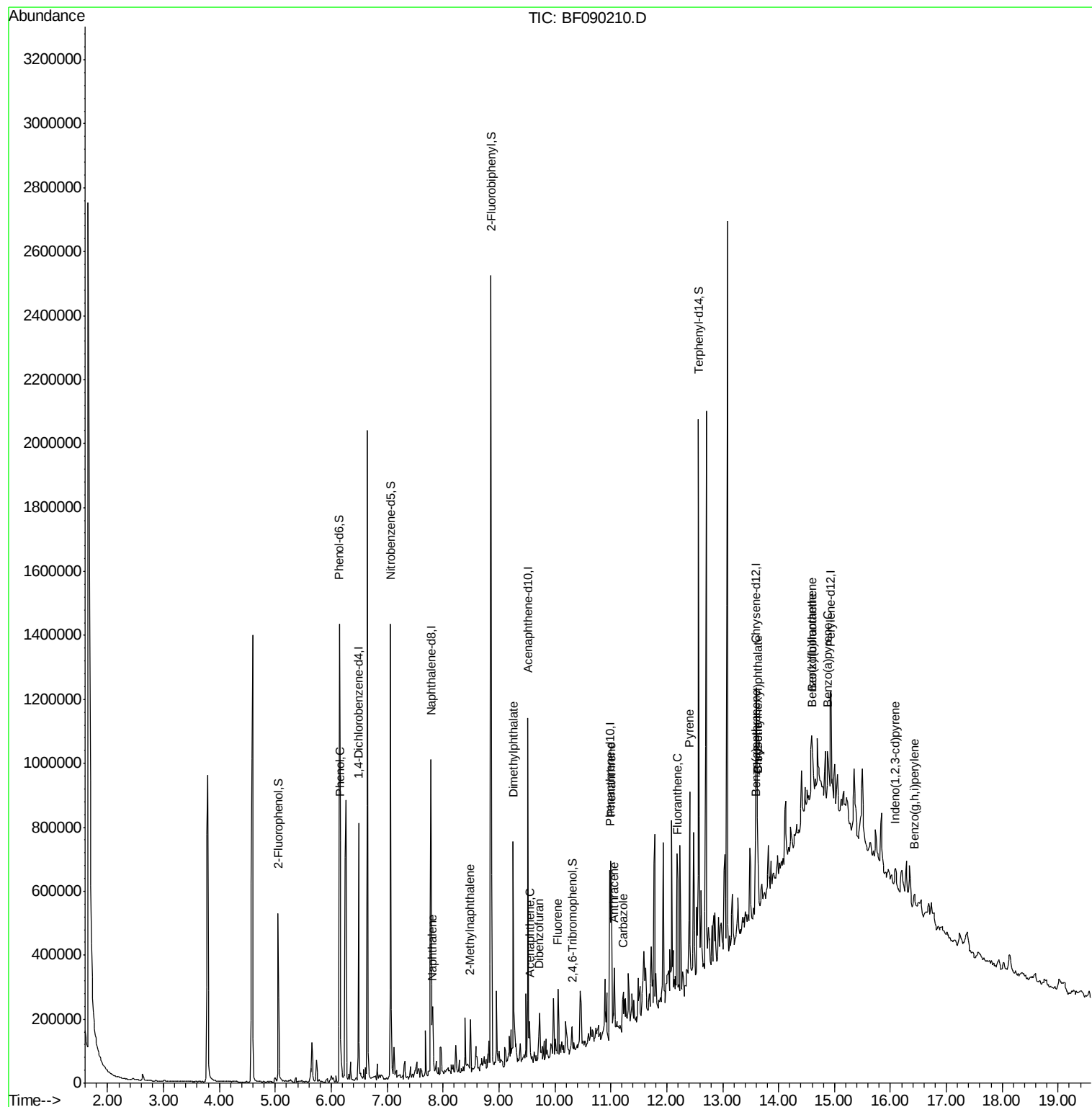
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092316\
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ALS Vial : 17 Sample Multiplier: 1

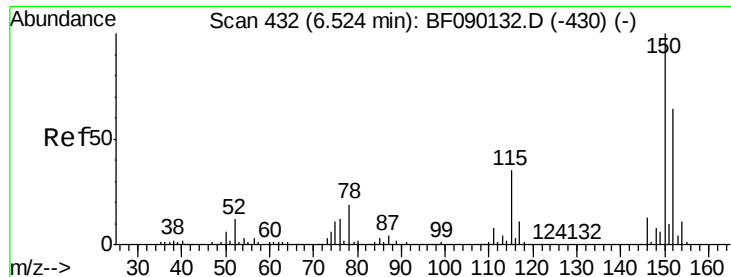
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#1

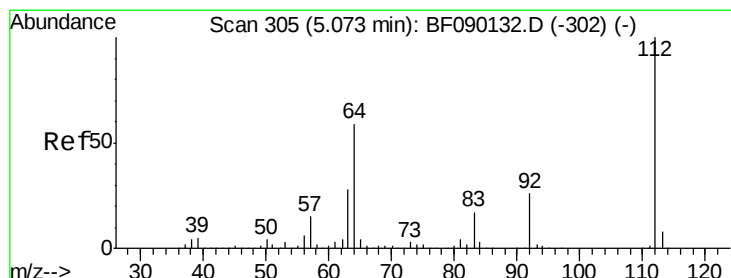
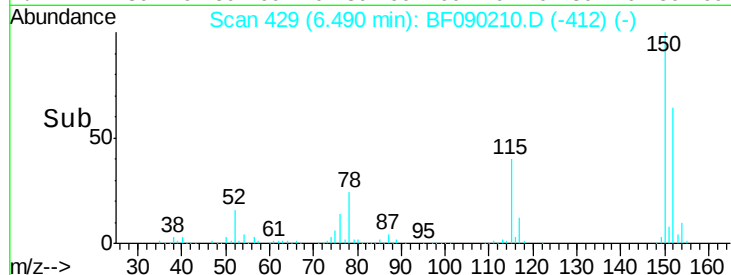
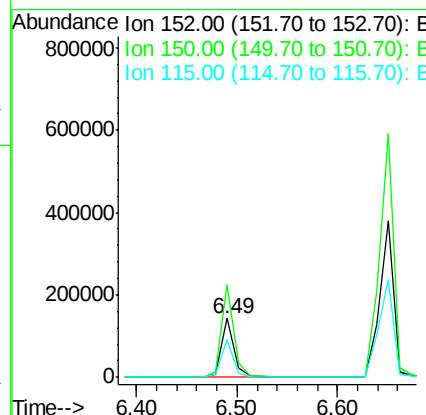
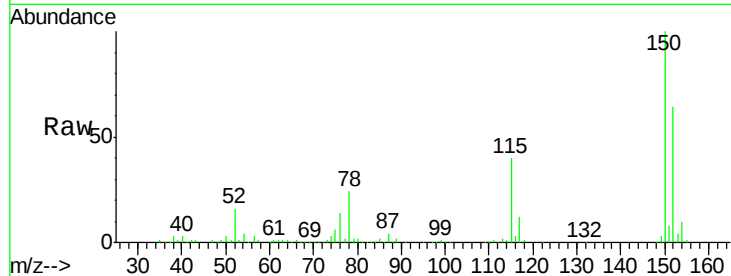
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.49 min Scan# 429
Delta R.T. -0.00 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.2	128.9	193.3
115	62.4	55.5	83.3

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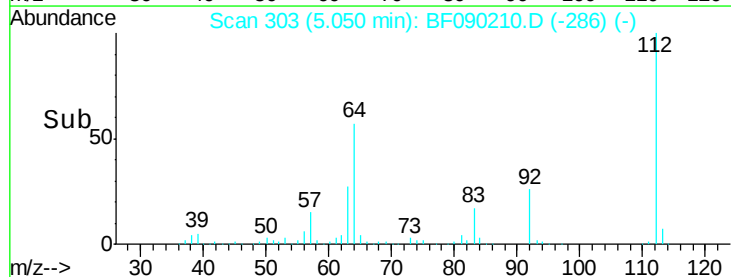
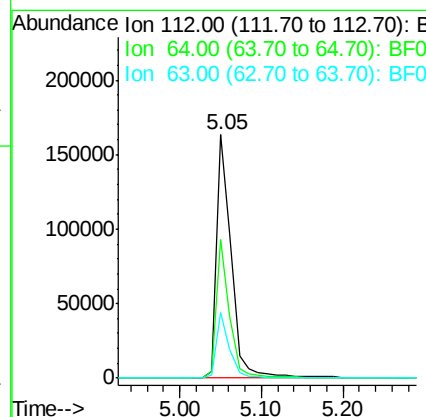
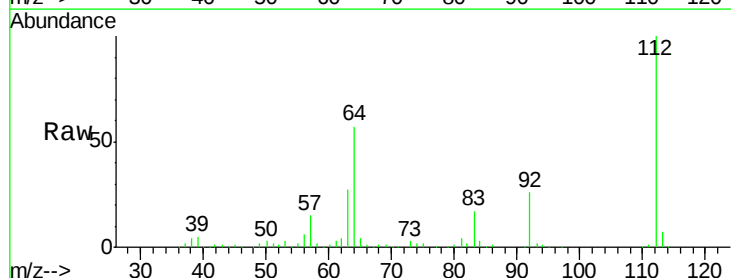
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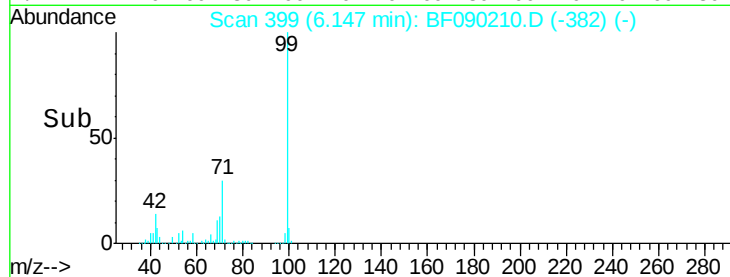
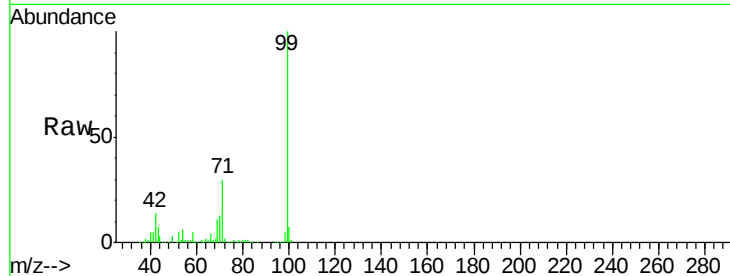
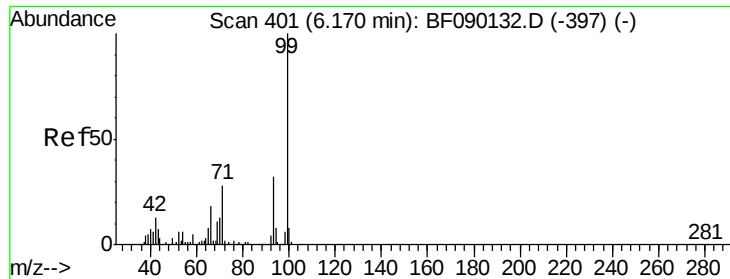


#5

2-Fluorophenol
Concen: 27.14 ng
RT: 5.05 min Scan# 303
Delta R.T. -0.00 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Tgt Ion	Ratio	Lower	Upper
112	100		
64	57.1	39.8	59.6
63	27.2	18.9	28.3





#7

Phenol-d6

Concen: 73.47 ng

RT: 6.15 min Scan# 399

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Tot Ion:	99	Resp:	697425
Ion Ratio	Lower	Upper	
99	100		
42	13.8	10.6	15.8
71	30.0	23.0	34.6

Instrument :

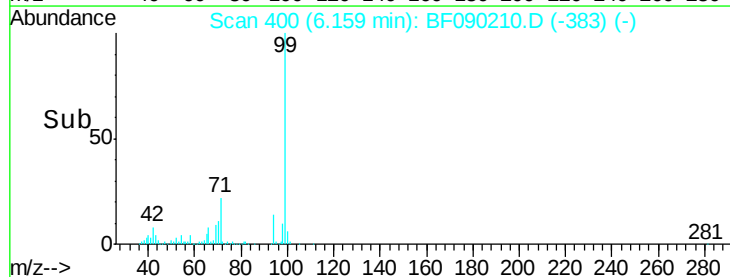
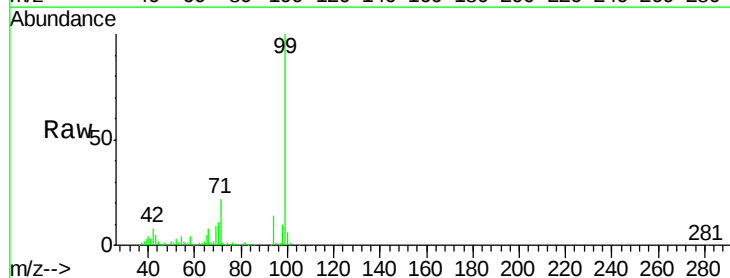
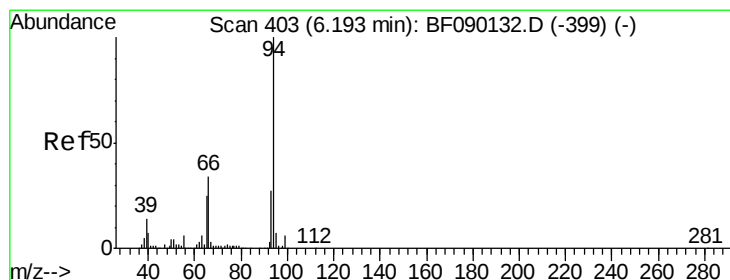
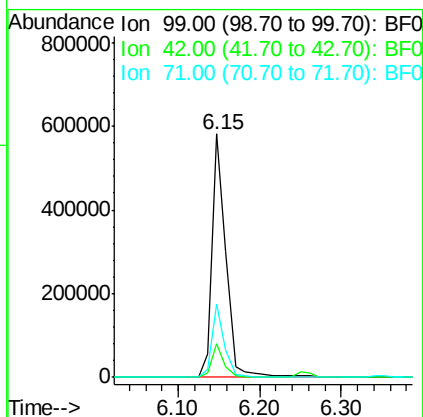
BNA_F

ClientSampleId :

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#10

Phenol

Concen: 5.07 ng

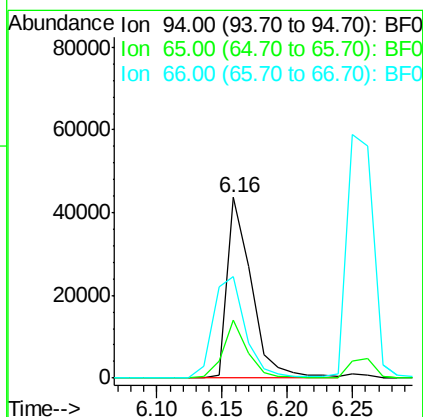
RT: 6.16 min Scan# 400

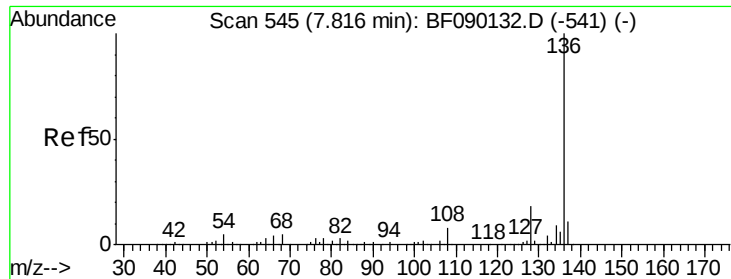
Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Tgt Ion:	94	Resp:	56865
Ion Ratio	Lower	Upper	
94	100		
65	32.0	20.6	60.6
66	56.2	45.1	85.1





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.78 min Scan# 542

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

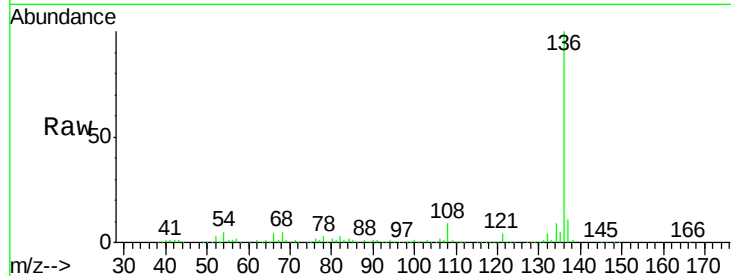
ClientSampleId :

RICHMOND-REC-SELECTFILL

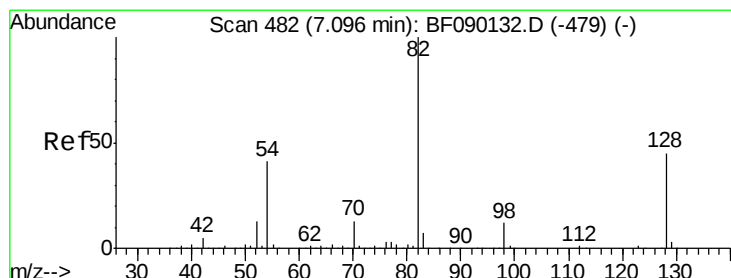
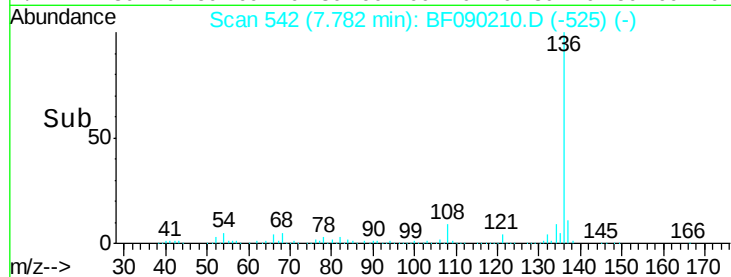
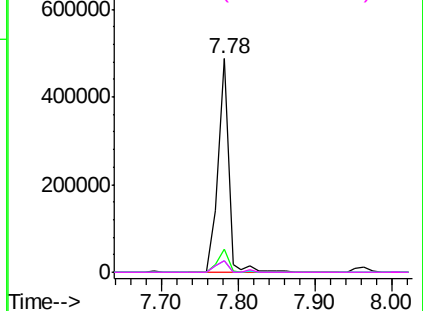
Tot Ion	Ratio	Lower	Upper
136	100		
137	10.6	9.0	13.4
54	5.2	6.4	9.6#
68	5.5	6.3	9.5#

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Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 65.30 ng

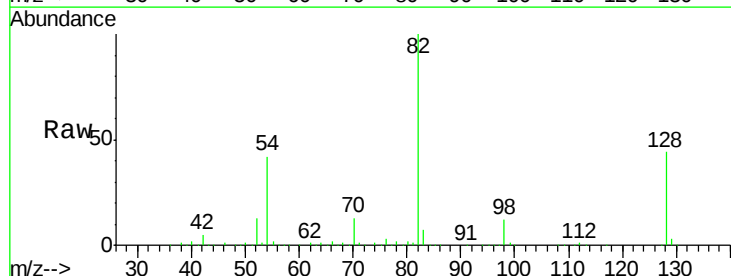
RT: 7.06 min Scan# 479

Delta R.T. -0.00 min

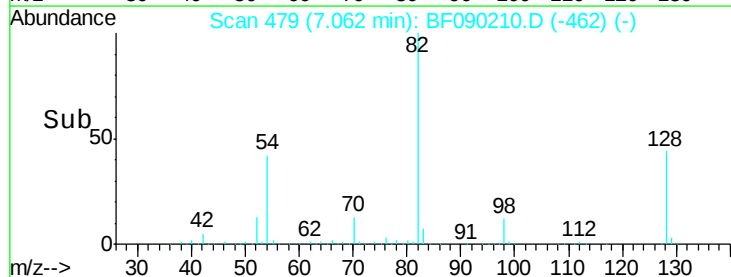
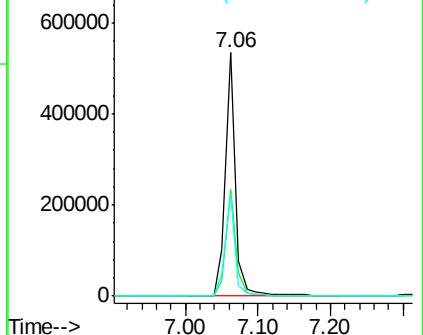
Lab File: BF090210.D

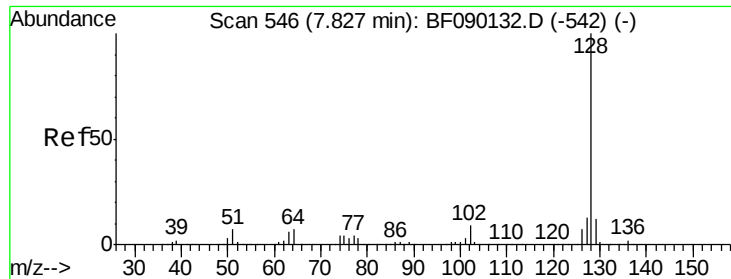
Acq: 23 Sep 2016 21:01

Tgt Ion	Ratio	Lower	Upper
82	100		
128	43.6	37.5	56.3
54	41.8	31.9	47.9



Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0





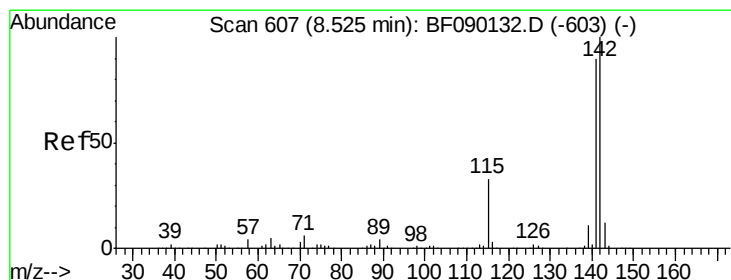
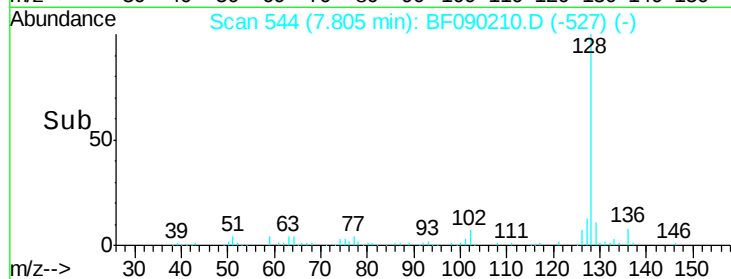
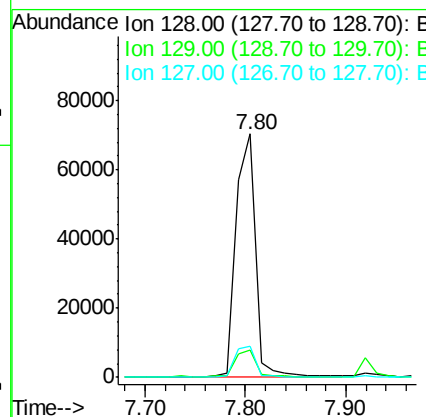
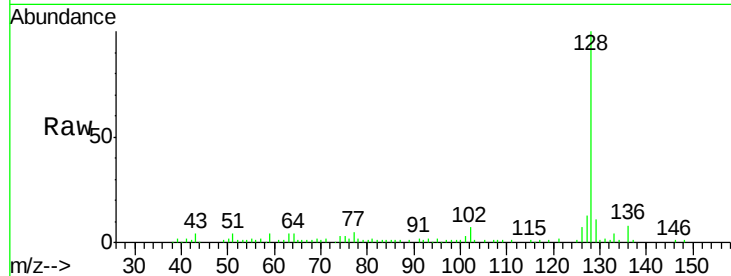
#31
Naphthalene
Concen: 4.32 ng
RT: 7.80 min Scan# 544
Delta R.T. -0.00 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.3	13.9
127	12.6	10.8	16.2

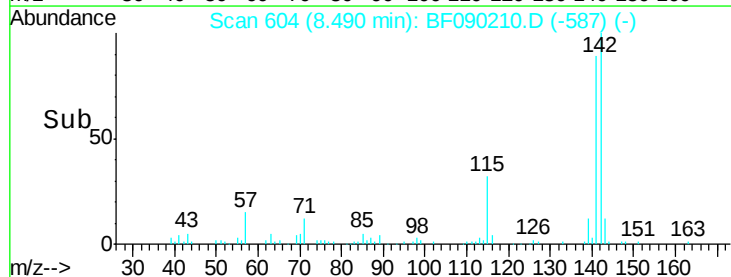
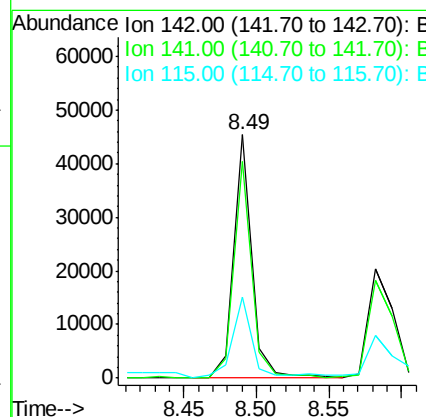
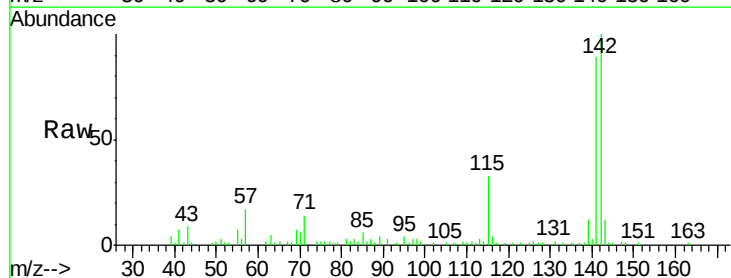
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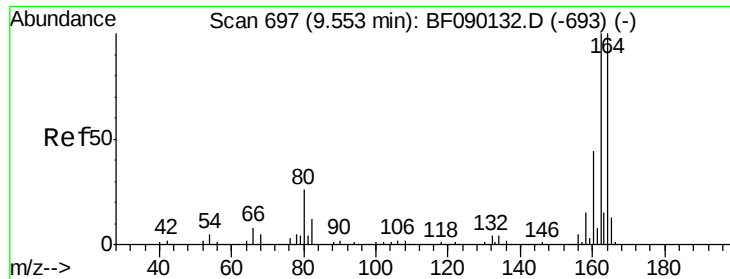
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#37
2-Methylnaphthalene
Concen: 2.85 ng
RT: 8.49 min Scan# 604
Delta R.T. -0.00 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Tgt Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.4	107.2
115	33.3	28.3	42.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.52 min Scan# 694

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

ClientSampleId :

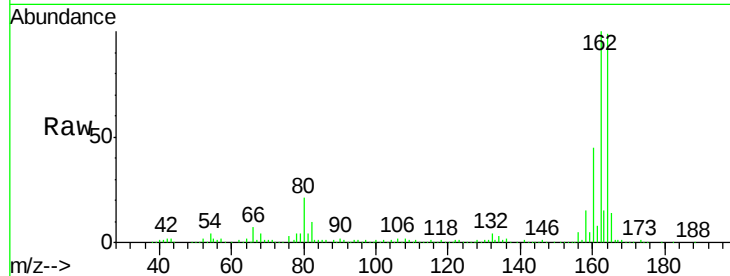
RICHMOND-REC-SELECTFILL

Tot Ion:	164	Resp:	207923
Ion Ratio	Lower	Upper	
164	100		
162	100.6	81.4	122.2
160	44.8	36.6	54.8

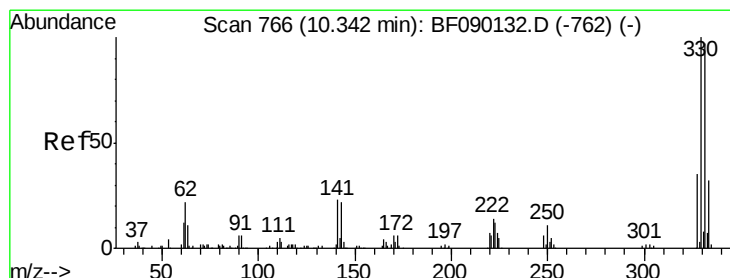
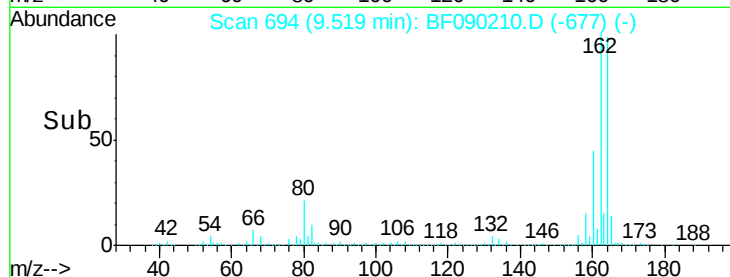
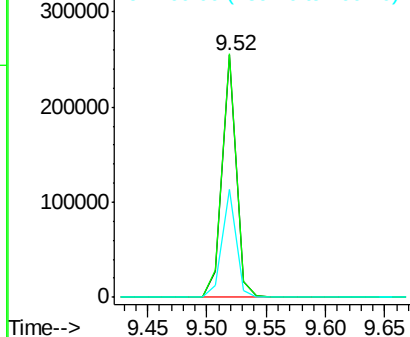
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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 3.62 ng

RT: 10.31 min Scan# 763

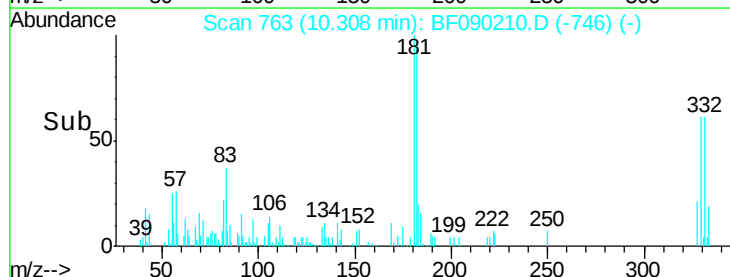
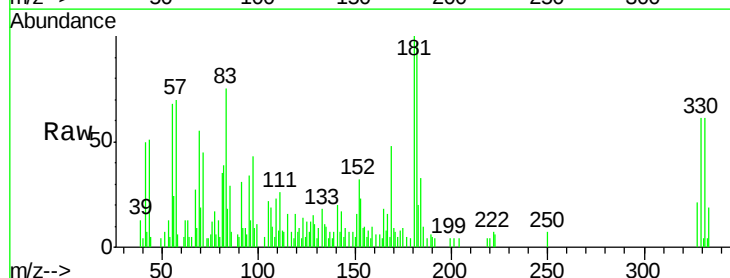
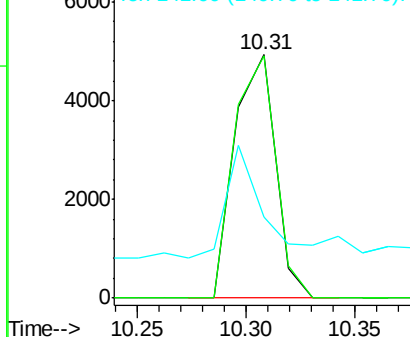
Delta R.T. -0.00 min

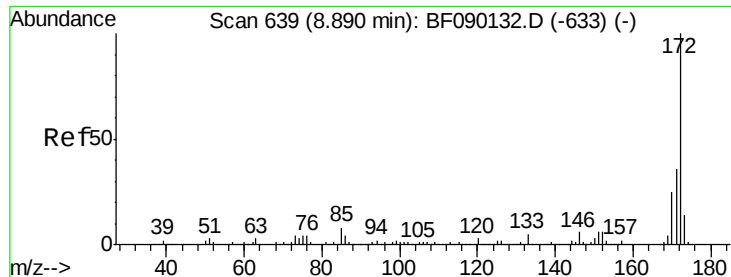
Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Tgt Ion:	330	Resp:	6458
Ion Ratio	Lower	Upper	
330	100		
332	100.7	78.1	117.1
141	53.2	23.9	35.9#

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





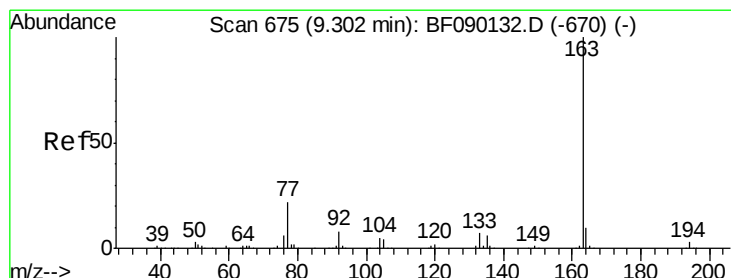
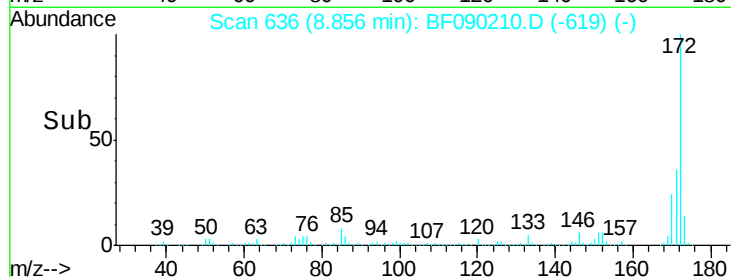
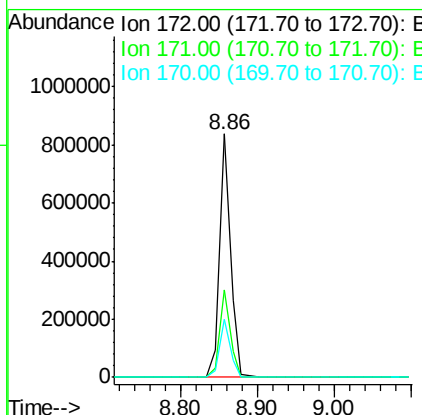
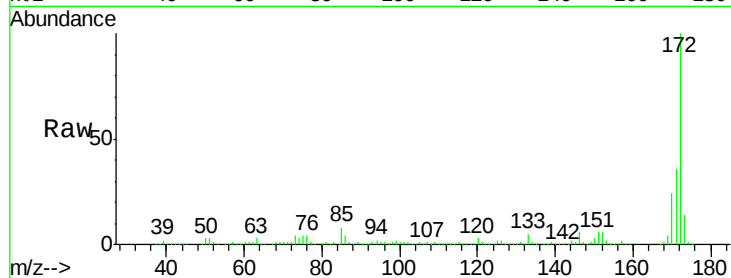
#44
2-Fluorobiphenyl
Concen: 79.72 ng
RT: 8.86 min Scan# 636
Delta R.T. -0.00 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL

Tot Ion	Ratio	Resp	Lower	Upper
172	100	844353		
171	35.7		29.2	43.8
170	24.1		19.8	29.8

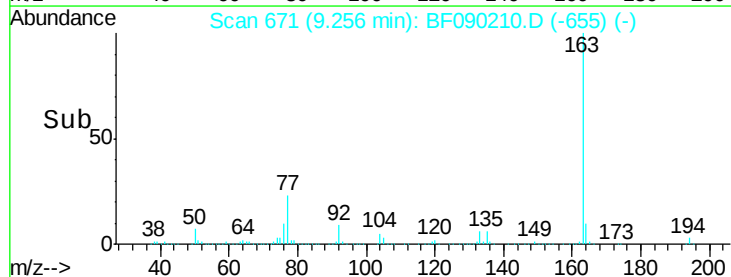
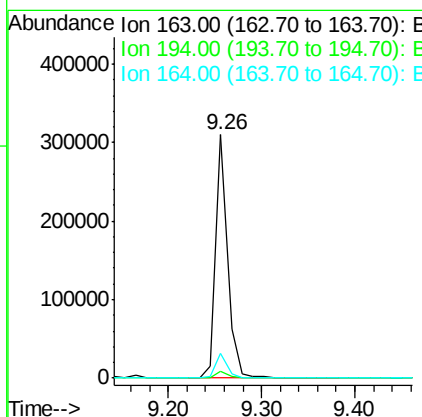
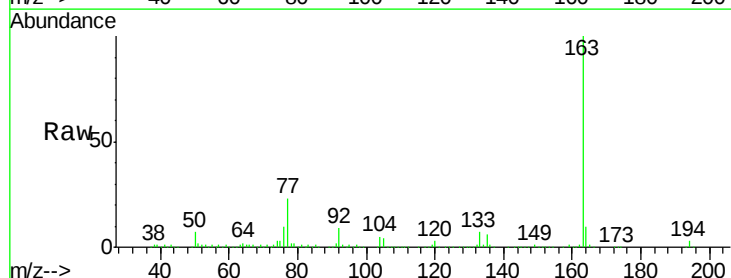
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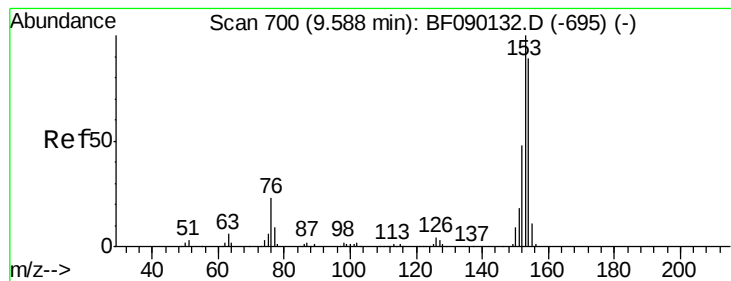
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#49
Dimethylphthalate
Concen: 20.61 ng
RT: 9.26 min Scan# 671
Delta R.T. -0.01 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Tgt Ion	Ratio	Resp	Lower	Upper
163	100	272892		
194	3.0		2.8	4.2
164	10.3		8.1	12.1





#51

Acenaphthene

Concen: 2.82 ng

RT: 9.55 min Scan# 697

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

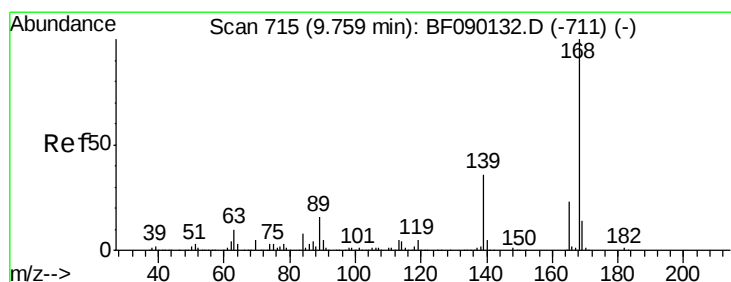
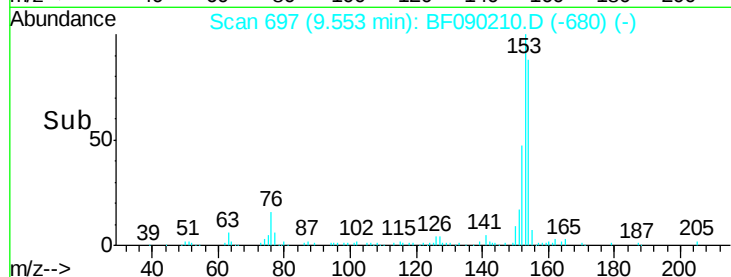
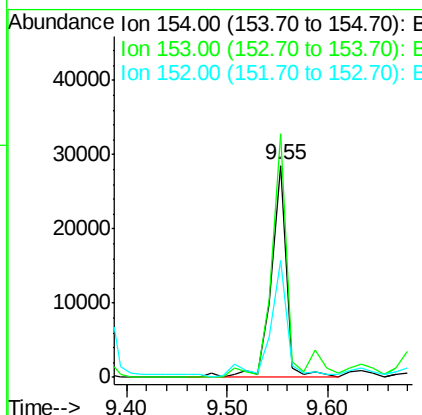
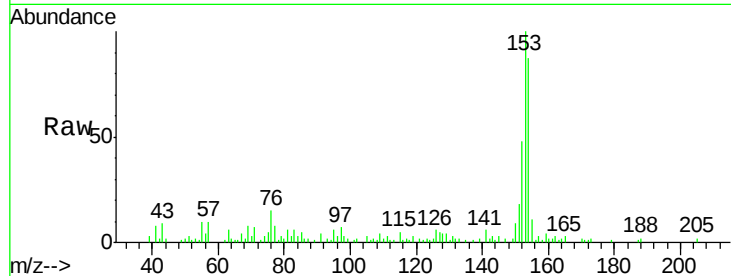
ClientSampleId :

RICHMOND-REC-SELECTFILL

Tot Ion:154	Resp:	29865
Ion Ratio	Lower	Upper
154	100	
153	114.8	90.8 136.2
152	55.2	44.2 66.4

Manual Integrations
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#54

Dibenzofuran

Concen: 3.42 ng

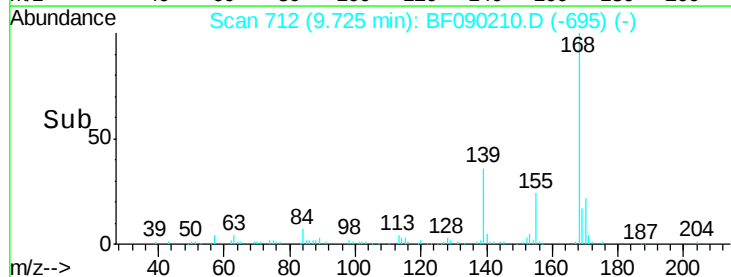
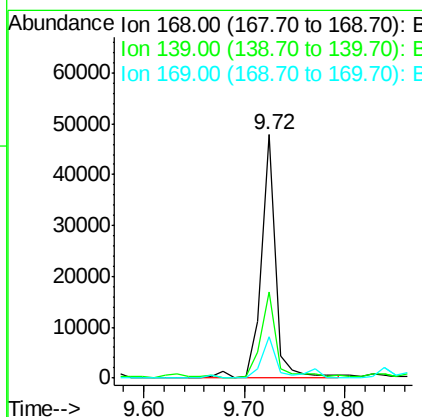
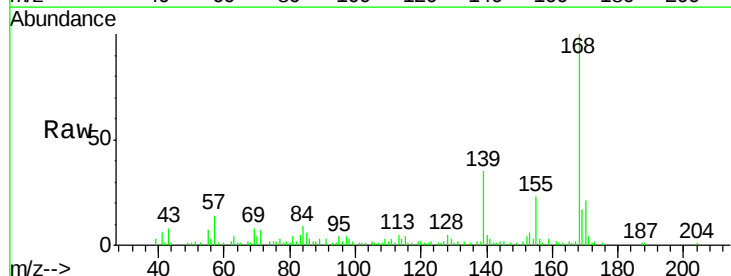
RT: 9.72 min Scan# 712

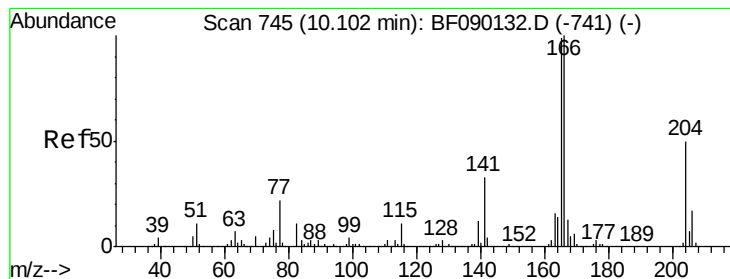
Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Tgt Ion:168	Resp:	47589
Ion Ratio	Lower	Upper
168	100	
139	35.2	28.8 43.2
169	17.2	10.7 16.1#





#57

Fluorene

Concen: 4.71 ng

RT: 10.06 min Scan# 741

Delta R.T. -0.01 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

ClientSampleId :

RICHMOND-REC-SELECTFILL

Tot Ion:166 Resp: 49448

Ion Ratio Lower Upper

166 100

165 98.2 78.5 117.7

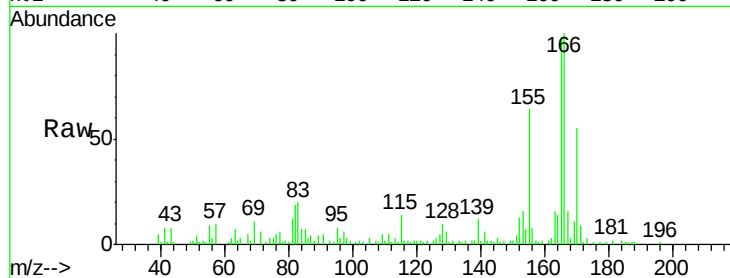
167 16.4 11.2 16.8

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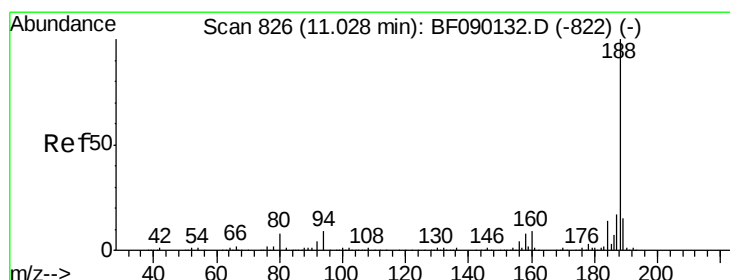
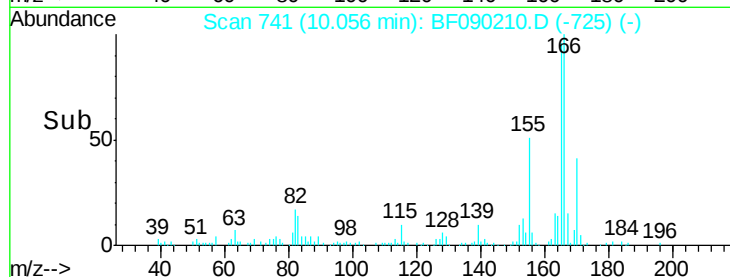
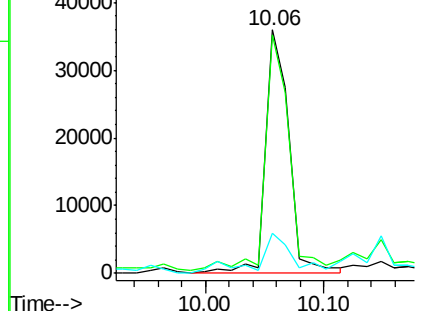
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Abundance Ion 166.00 (165.70 to 166.70): E

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

RT: 10.98 min Scan# 822

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

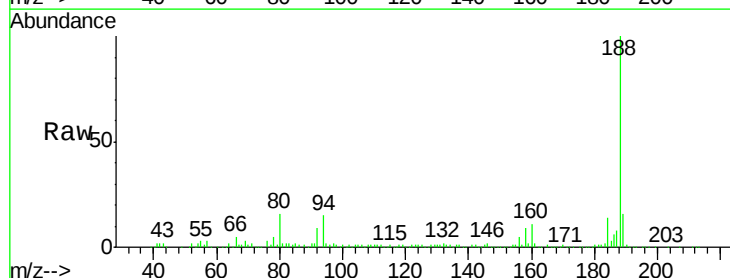
Tgt Ion:188 Resp: 254518

Ion Ratio Lower Upper

188 100

94 15.3 10.5 15.7

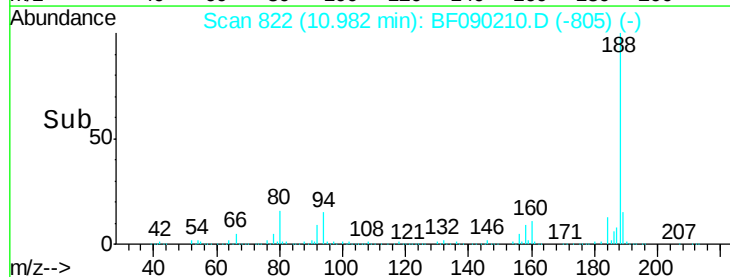
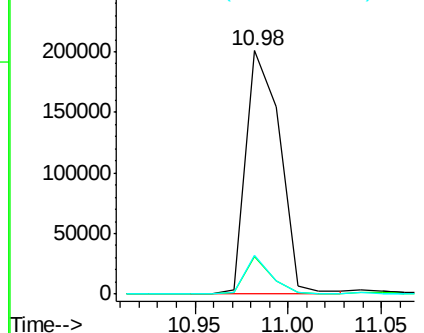
80 16.2 11.2 16.8

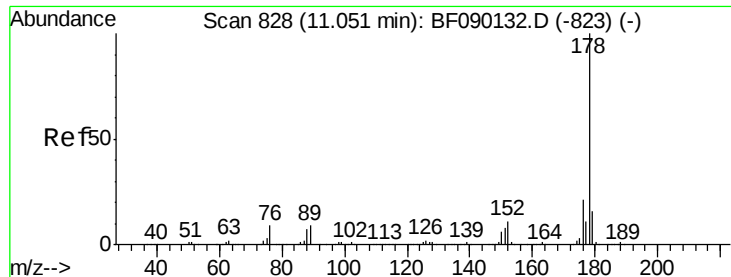


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 24.72 ng

RT: 11.00 min Scan# 824

Delta R.T. -0.01 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

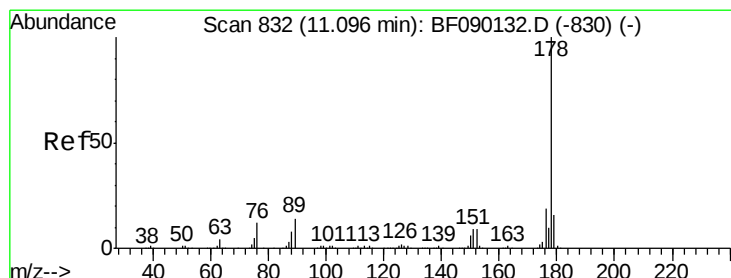
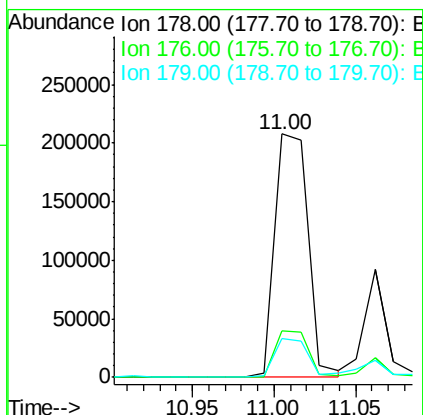
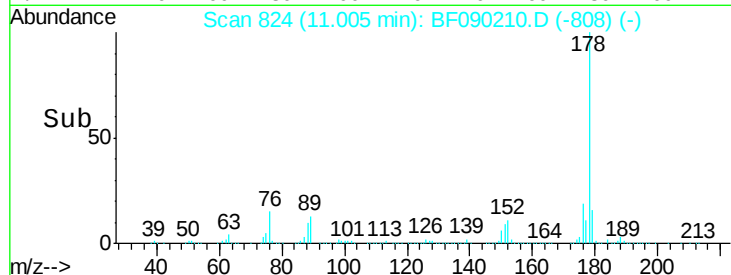
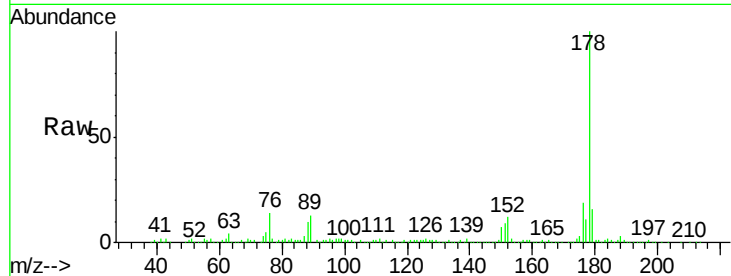
ClientSampleId :

RICHMOND-REC-SELECTFILL

Tot Ion:	178	Resp:	294211
Ion Ratio	Lower	Upper	
178	100		
176	19.2	15.9	23.9
179	16.0	12.9	19.3

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#71

Anthracene

Concen: 7.58 ng

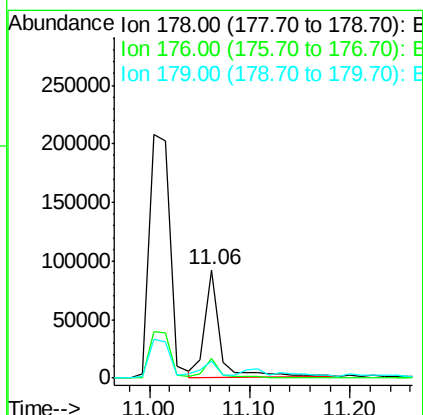
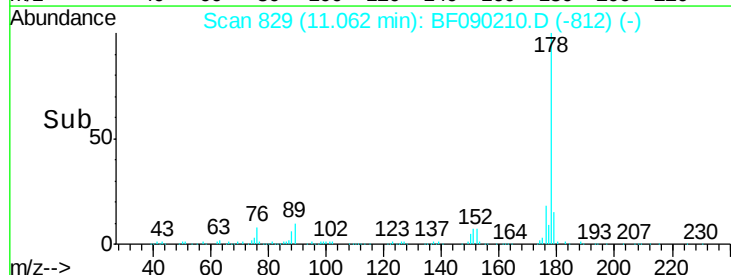
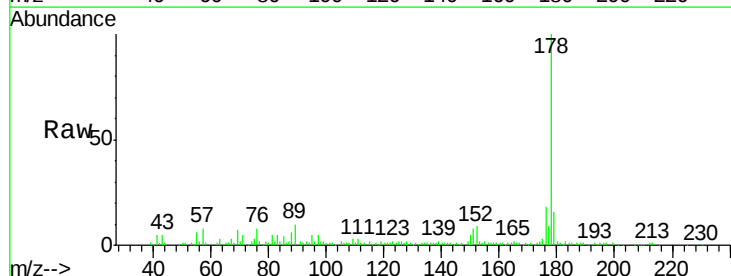
RT: 11.06 min Scan# 829

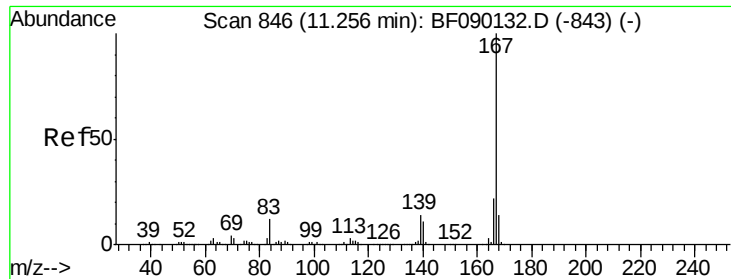
Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Tgt Ion:	178	Resp:	94591
Ion Ratio	Lower	Upper	
178	100		
176	18.3	15.8	23.6
179	15.8	12.6	19.0





#72

Carbazole

Concen: 2.47 ng

RT: 11.22 min Scan# 843

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

ClientSampleId :

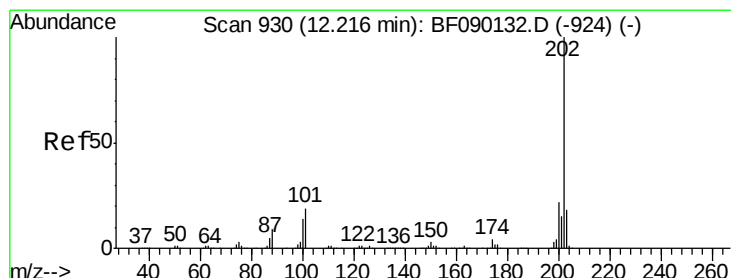
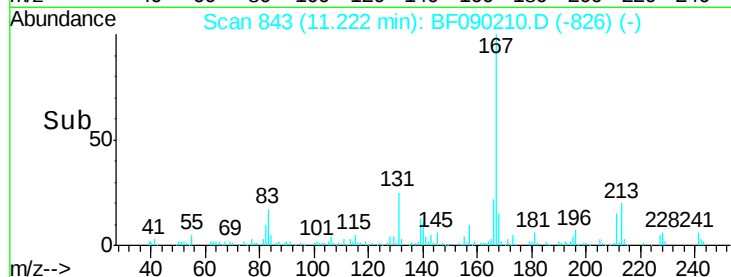
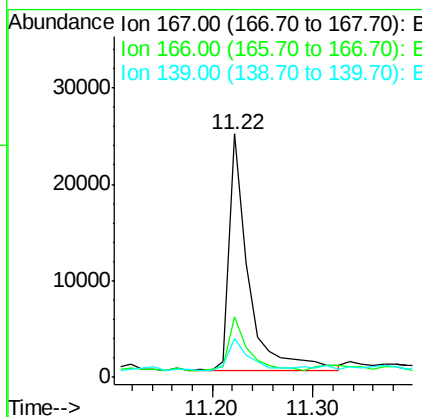
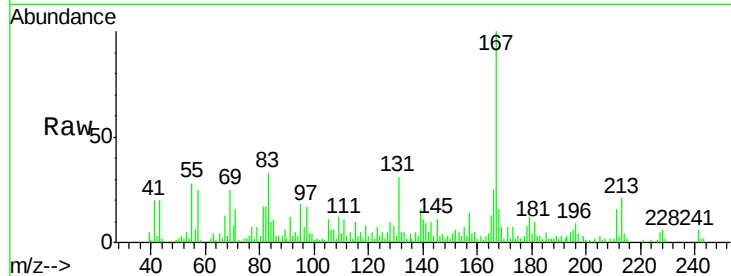
RICHMOND-REC-SELECTFILL

Tot Ion:	167	Resp:	32597
Ion Ratio	Lower	Upper	
167	100		
166	25.0	18.0	27.0
139	16.0	10.4	15.6

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#74

Fluoranthene

Concen: 21.10 ng

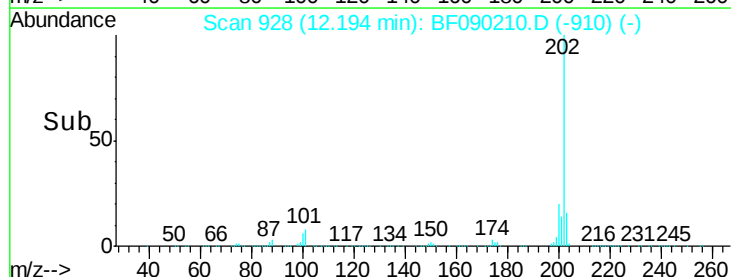
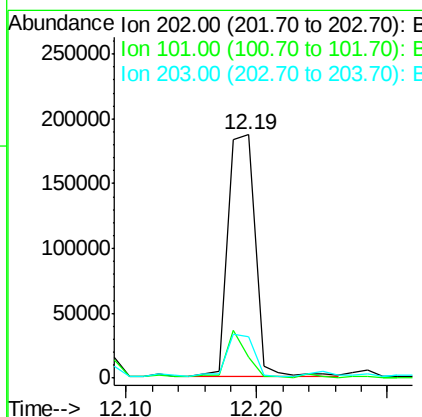
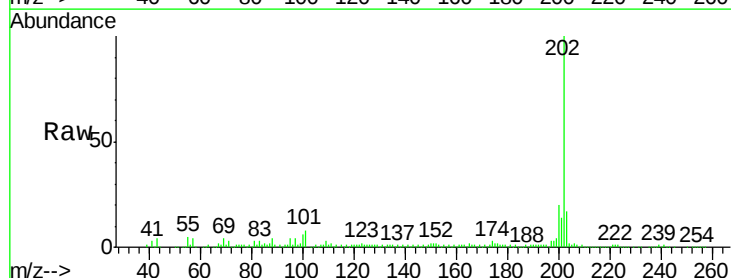
RT: 12.19 min Scan# 928

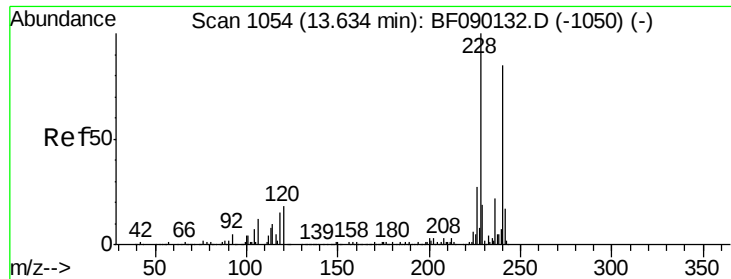
Delta R.T. 0.01 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Tgt Ion:	202	Resp:	269649
Ion Ratio	Lower	Upper	
202	100		
101	8.4	0.0	36.1
203	16.8	0.0	38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.60 min Scan# 1051

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

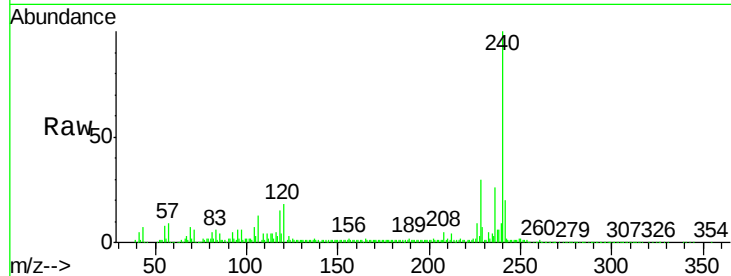
ClientSampleId :

RICHMOND-REC-SELECTFILL

Tot Ion:	240	Resp:	257130
Ion Ratio	Lower	Upper	
240	100		
120	18.4	10.6	16.0#
236	26.5	21.6	32.4

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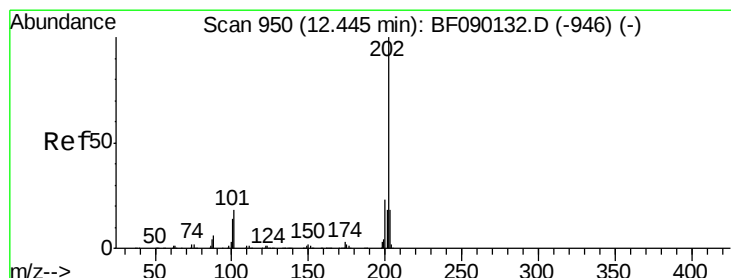
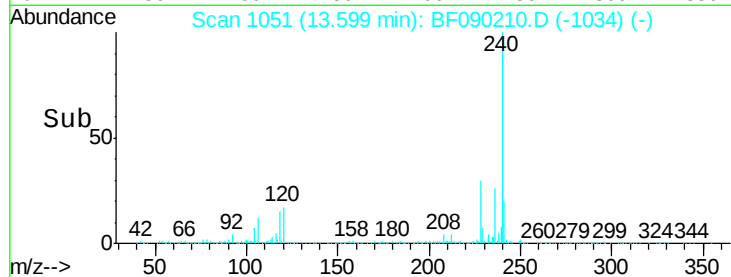
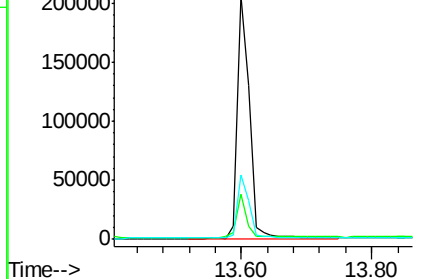
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Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 13.45 ng

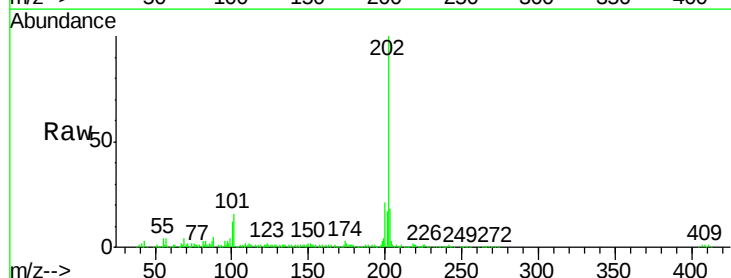
RT: 12.41 min Scan# 947

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

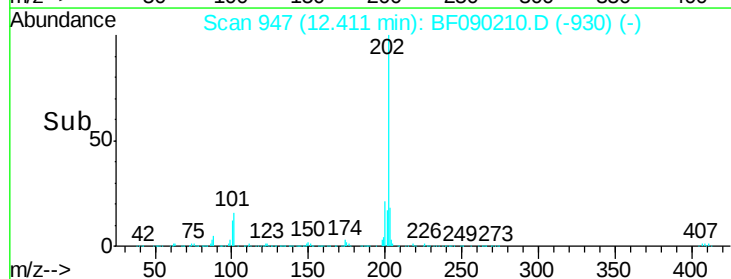
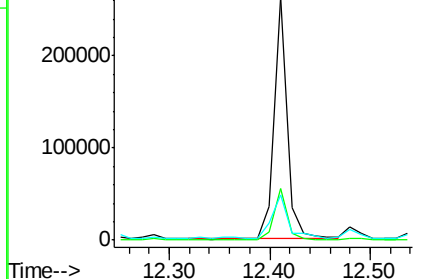
Tgt Ion:	202	Resp:	236727
Ion Ratio	Lower	Upper	
202	100		
200	21.1	17.9	26.9
203	18.4	14.2	21.4

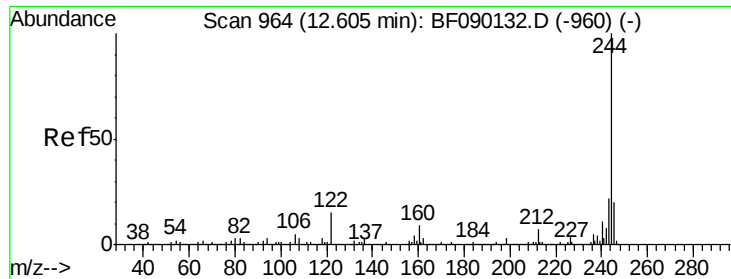


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 59.75 ng

RT: 12.57 min Scan# 961

Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

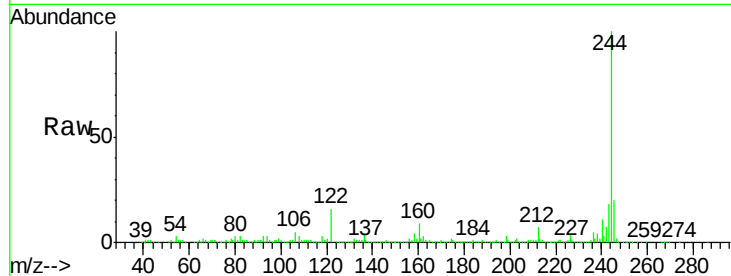
ClientSampleId :

RICHMOND-REC-SELECTFILL

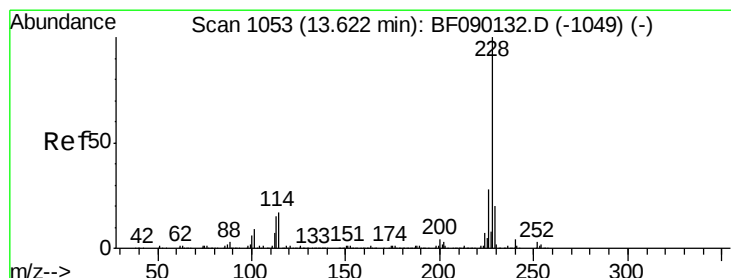
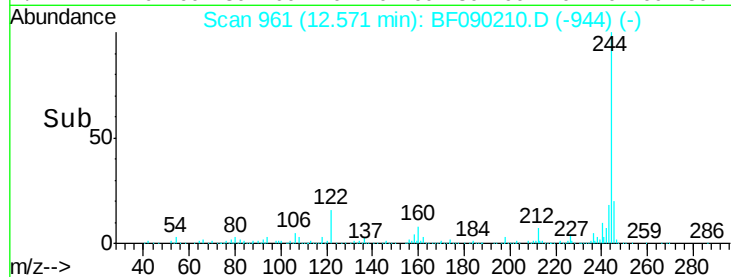
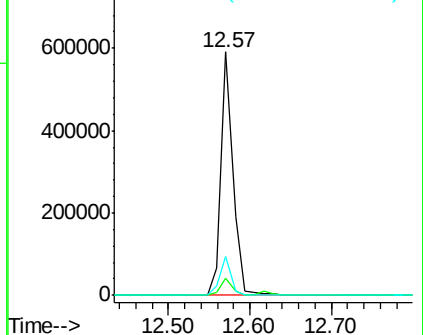
Tot Ion:	244	Resp:	605130
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.8	8.8
122	16.1	9.4	14.0#

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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: 8.35 ng

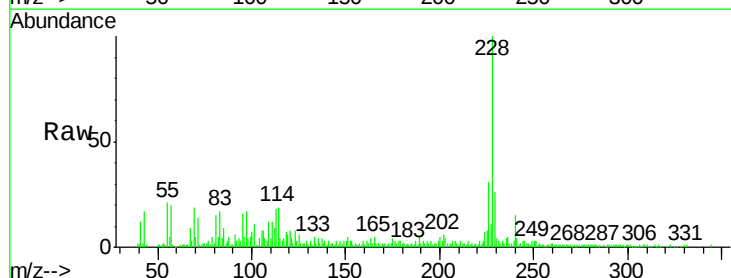
RT: 13.59 min Scan# 1050

Delta R.T. -0.00 min

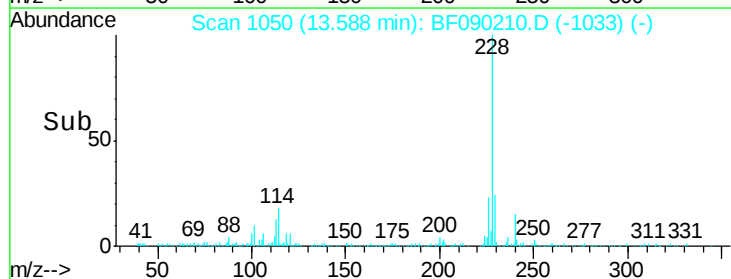
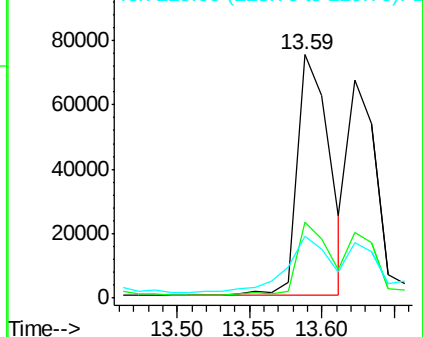
Lab File: BF090210.D

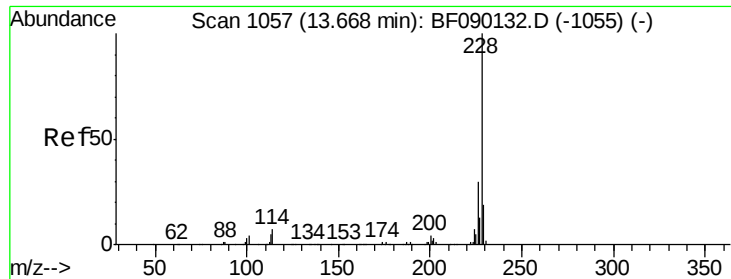
Acq: 23 Sep 2016 21:01

Tgt Ion:	228	Resp:	115510
Ion Ratio	Lower	Upper	
228	100		
226	31.0	22.0	33.0
229	25.5	16.2	24.2#



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





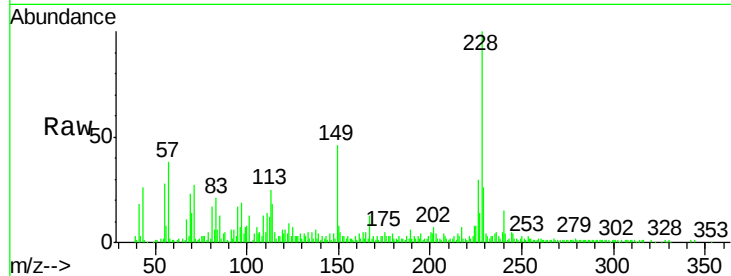
#82
Chrysene
Concen: 6.84 ng/ml
RT: 13.62 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	25.6	16.2	24.4

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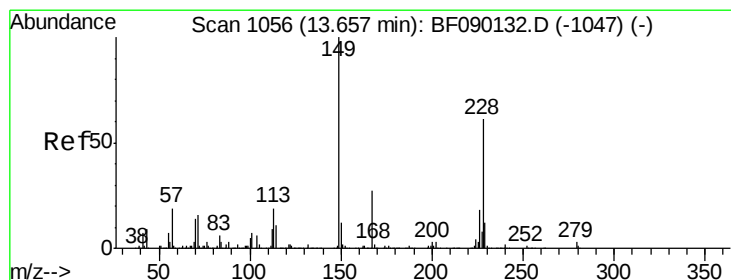
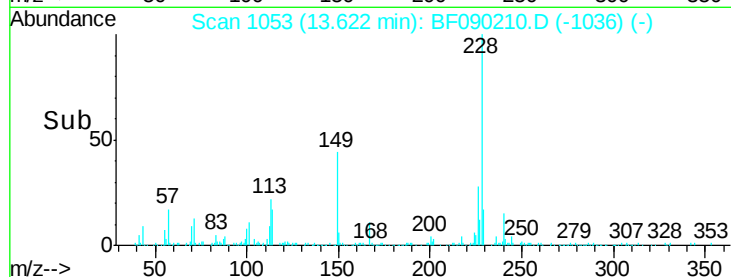
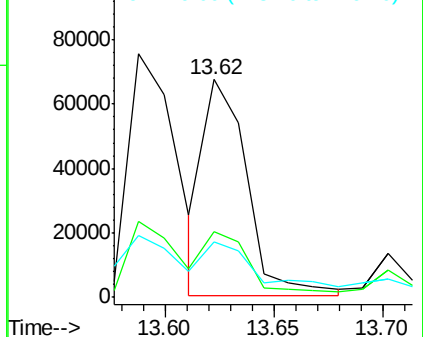


Abundance

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



#83
Bis(2-ethylhexyl)phthalate
Concen: 2.60 ng/ml
RT: 13.62 min Scan# 1053
Delta R.T. -0.00 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

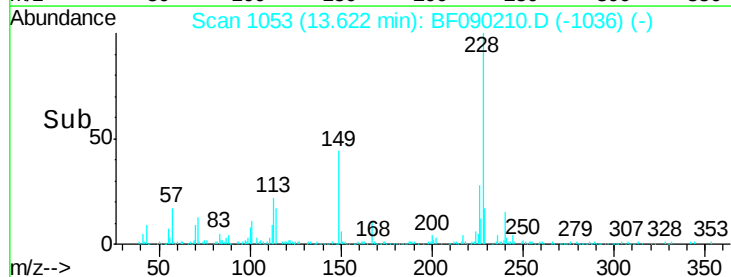
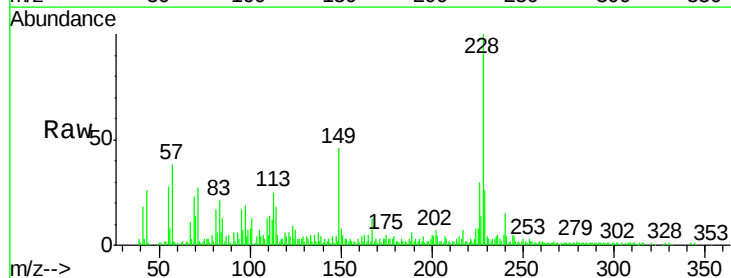
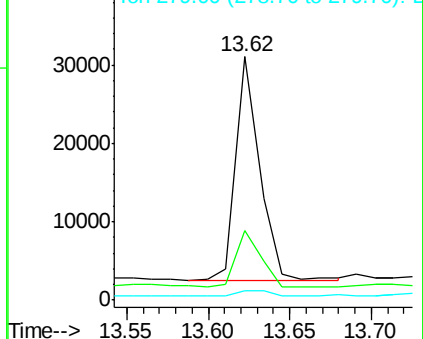
Tgt Ion	Ratio	Lower	Upper
149	100		
167	28.4	21.2	31.8
279	4.0	2.2	3.2

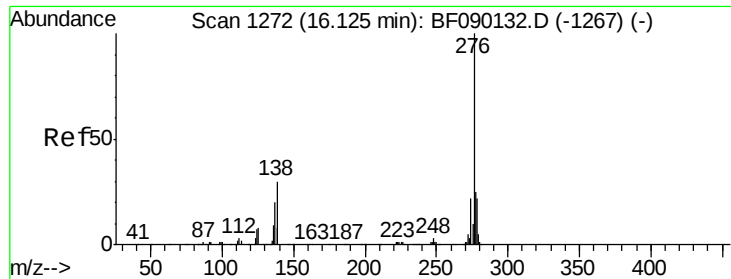
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





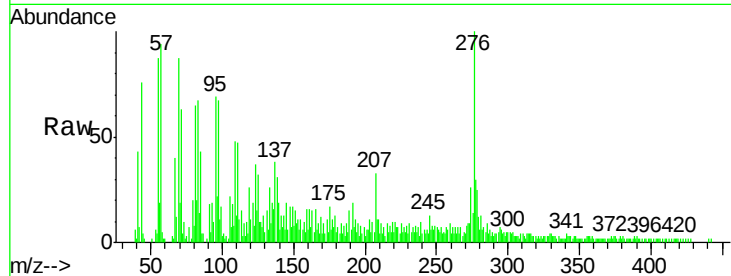
#85
Indeno(1,2,3-cd)pyrene
Concen: 3.21 ng
RT: 16.09 min Scan# 1269
Delta R.T. 0.02 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL

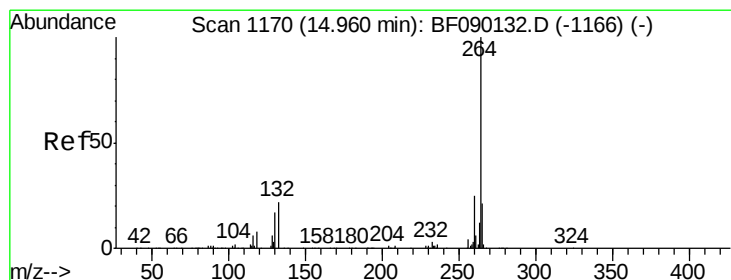
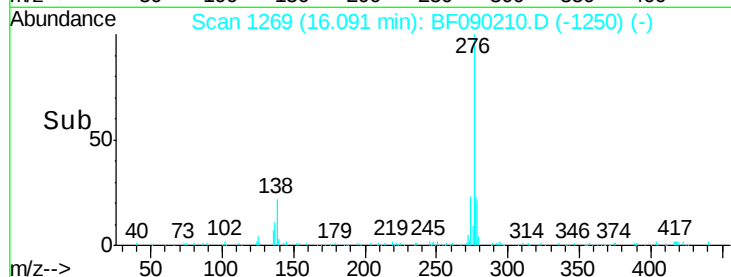
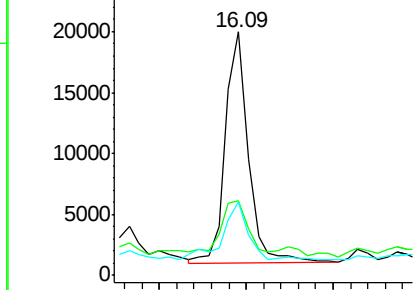
Tot Ion	Ratio	Lower	Upper
276	100		
138	29.4	25.9	38.9
277	26.3	19.9	29.9

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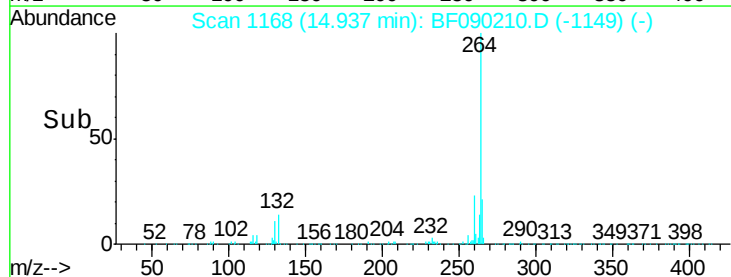
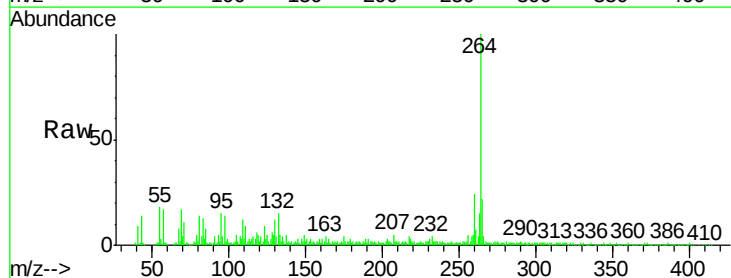
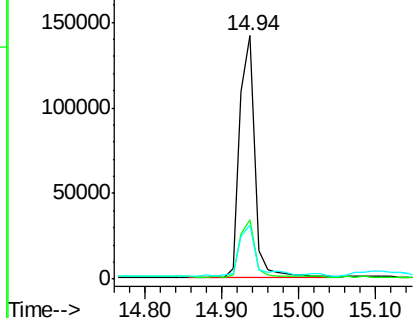
Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

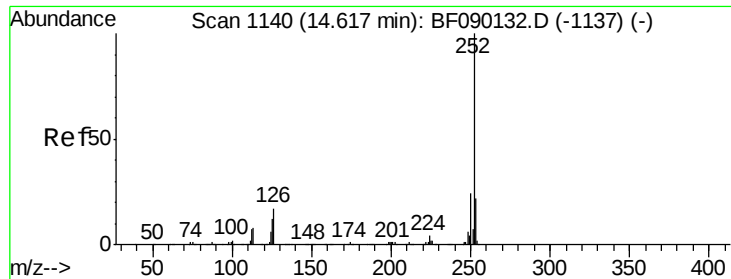


#86
Perylene-d12
Concen: 20.00 ng
RT: 14.94 min Scan# 1168
Delta R.T. 0.02 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.5	29.3
265	22.0	17.0	25.4

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: 10.31 ng m

RT: 14.59 min Scan# 1138

Delta R.T. 0.01 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Instrument :

BNA_F

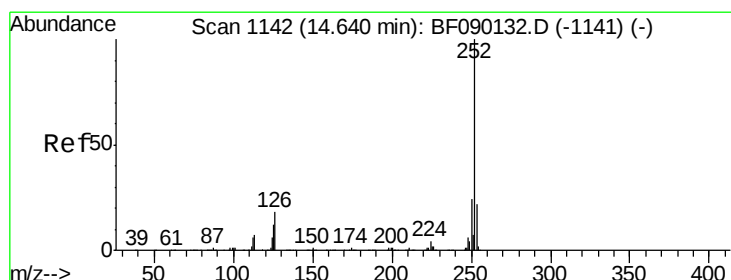
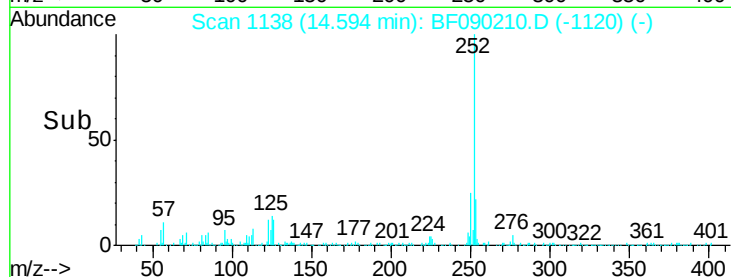
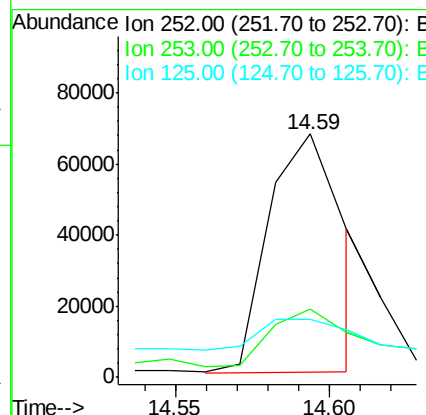
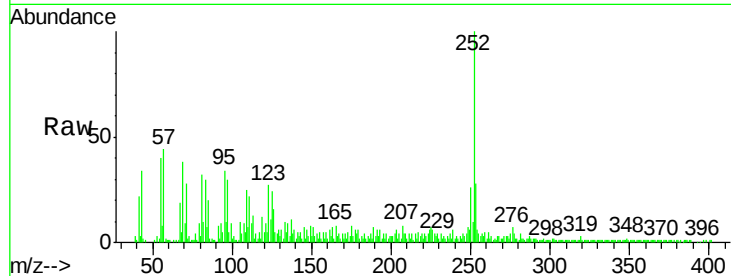
ClientSampleId :

RICHMOND-REC-SELECTFILL

Tot Ion:	252	Resp:	112270
Ion Ratio	Lower	Upper	
252	100		
253	28.3	17.9	26.9#
125	23.8	12.7	19.1#

Manual Integrations
APPROVED

sohil
9/26/2016 5:59:14 PM



#88

Benzo(k)fluoranthene

Concen: 2.08 ng m

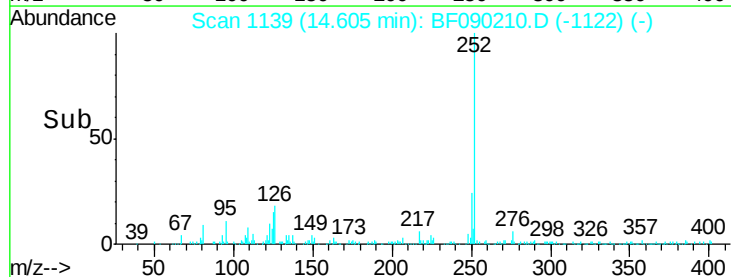
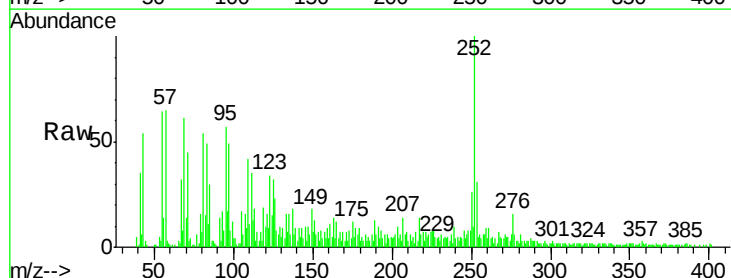
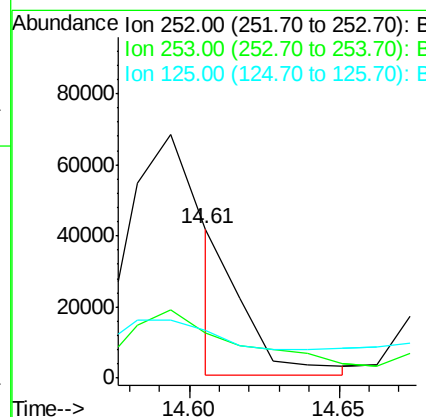
RT: 14.61 min Scan# 1139

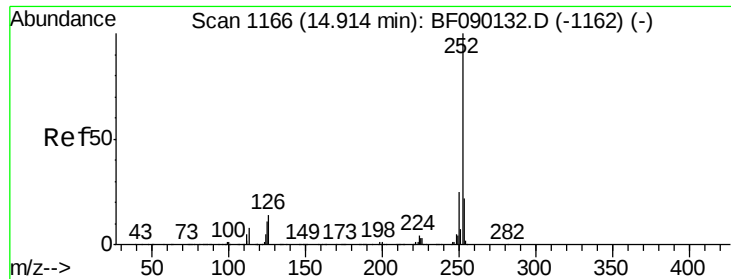
Delta R.T. -0.00 min

Lab File: BF090210.D

Acq: 23 Sep 2016 21:01

Tgt Ion:	252	Resp:	21223
Ion Ratio	Lower	Upper	
252	100		
253	30.5	17.8	26.8#
125	32.1	7.8	11.6#





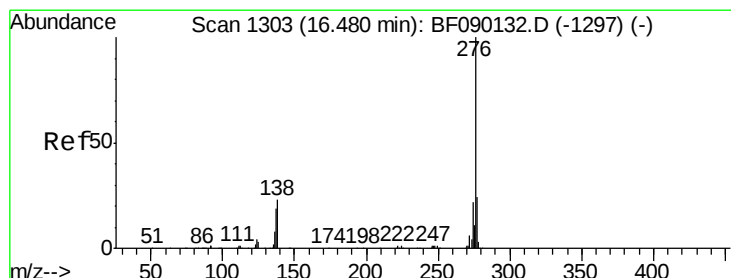
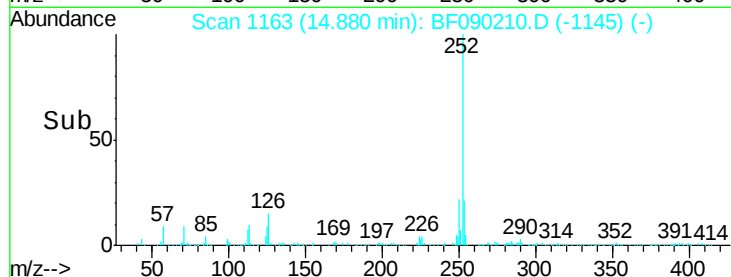
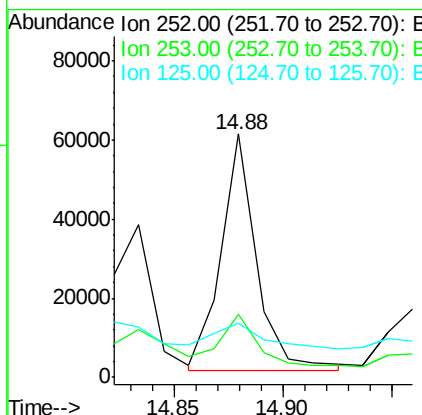
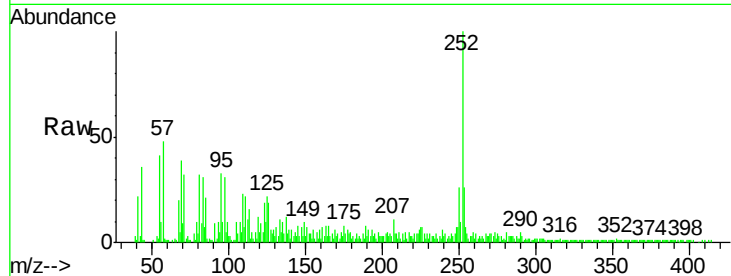
#89
Benzo(a)pyrene
Concen: 6.62 ng
RT: 14.88 min Scan# 1163
Delta R.T. 0.01 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Instrument :
BNA_F
ClientSampleId :
RICHMOND-REC-SELECTFILL

Tot Ion	Ratio	Lower	Upper
252	100		
253	26.2	17.4	26.0#
125	22.4	7.7	11.5#

Manual Integrations
APPROVED

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#91
Benzo(g,h,i)perylene
Concen: 4.19 ng
RT: 16.43 min Scan# 1299
Delta R.T. 0.02 min
Lab File: BF090210.D
Acq: 23 Sep 2016 21:01

Tgt Ion	Ratio	Lower	Upper
276	100		
277	29.9	18.9	28.3#
138	29.6	23.3	34.9

