

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012417\
 Data File : BF092448.D
 Acq On : 25 Jan 2017 00:08
 Operator : UM/SJ
 Sample : I1383-03
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-01-001-B

Manual Integrations
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Quant Time: Jan 25 00:40:31 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012417.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jan 24 13:48:07 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	161542	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	676539	20.00	ng	-0.01
38) Acenaphthene-d10	10.03	164	329132	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	499810	20.00	ng	-0.01
75) Chrysene-d12	14.16	240	344903	20.00	ng	-0.01
86) Perylene-d12	15.63	264	324068	20.00	ng	-0.01

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.56	112	697731	67.20	ng	0.01
7) Phenol-d6	6.59	99	1394335	105.43	ng	0.00
23) Nitrobenzene-d5	7.53	82	778116	62.83	ng	-0.01
41) 2,4,6-Tribromophenol	10.81	330	60124	26.81	ng	-0.01
44) 2-Fluorobiphenyl	9.34	172	1247929	70.11	ng	-0.01
78) Terphenyl-d14	13.11	244	902953	69.71	ng	-0.01

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.60	94	89587	5.61	ng	# 60
31) Naphthalene	8.28	128	374797	10.82	ng	98
37) 2-Methylnaphthalene	8.98	142	125948	5.75	ng	97
45) 1,1'-Biphenyl	9.45	154	63526	2.67	ng	96
49) Dimethylphthalate	9.73	163	94969	4.54	ng	99
51) Acenaphthene	10.05	154	265821	15.01	ng	95
54) Dibenzofuran	10.24	168	287499	11.95	ng	# 88
57) Fluorene	10.58	166	261182	14.65	ng	96
70) Phenanthrene	11.54	178	970871	35.27	ng	98
71) Anthracene	11.58	178	242093	9.00	ng	97
72) Carbazole	11.74	167	110933	4.32	ng	96
74) Fluoranthene	12.73	202	580072	21.55	ng	99
77) Pyrene	12.96	202	462825	18.52	ng	99
80) Benzo(a)anthracene	14.15	228	172722	9.32	ng	99
82) Chrysene	14.18	228	162177m	8.19	ng	
83) Bis(2-ethylhexyl)phthalate	14.15	149	28649m	2.25	ng	
85) Indeno(1,2,3-cd)pyrene	17.11	276	68474	4.68	ng	# 90
87) Benzo(b)fluoranthene	15.20	252	176047m	8.46	ng	
88) Benzo(k)fluoranthene	15.21	252	72088m	4.17	ng	
89) Benzo(a)pyrene	15.56	252	129703	7.37	ng	# 95
91) Benzo(g,h,i)perylene	17.55	276	69824	4.85	ng	# 90

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

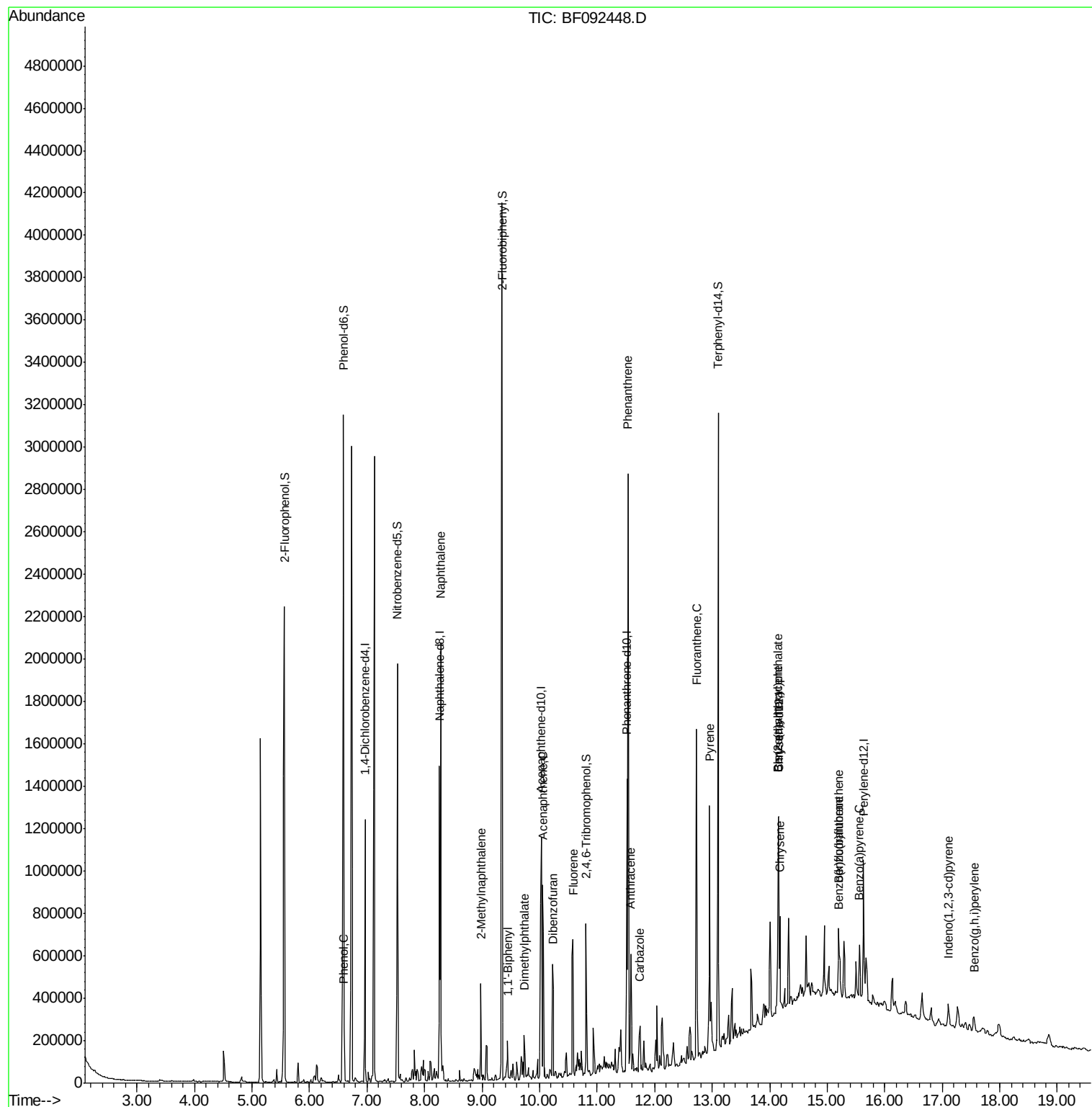
Data Path : Z:\HPCHEM1\BNA F\DATA\BF012417\
Data File : BF092448.D
Acq On : 25 Jan 2017 00:08
Operator : UM/SJ
Sample : I1383-03
Misc :
ALS Vial : 29 Sample Multiplier: 1

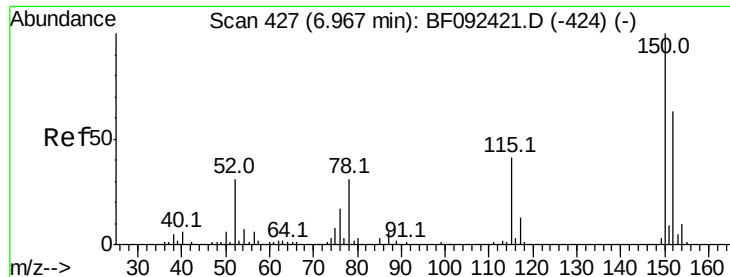
Instrument :
BNA_F
ClientSampleId :
FK-SF-01-001-B

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.97 min Scan# 427

Delta R.T. -0.00 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

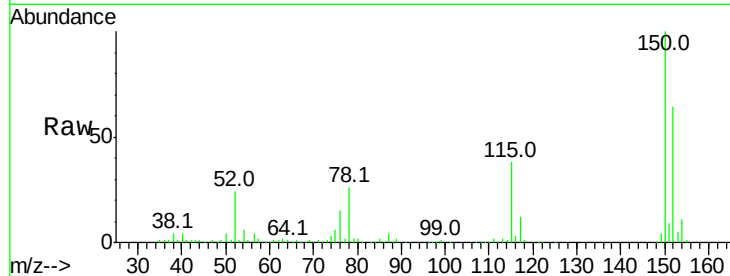
ClientSampleId :

FK-SF-01-001-B

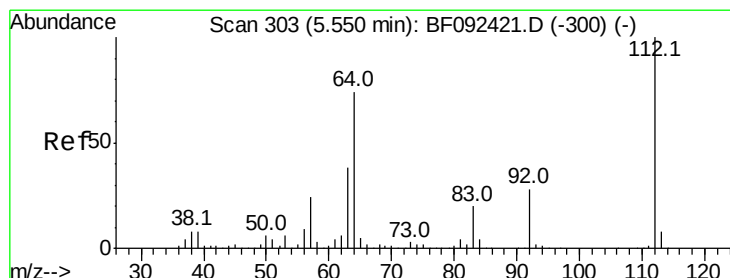
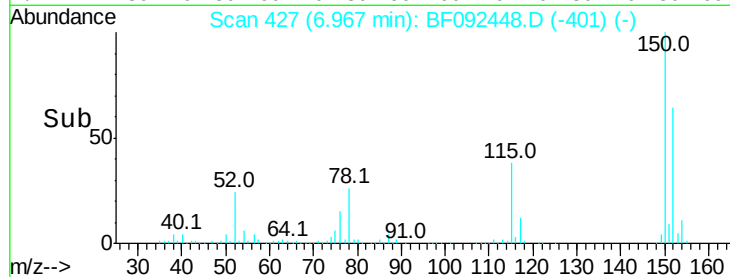
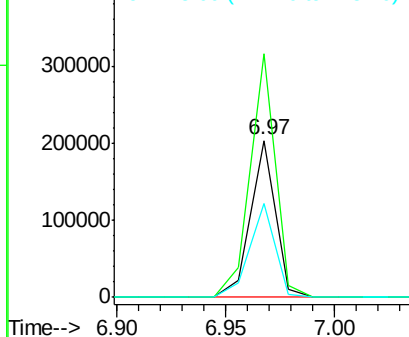
Tot Ion:	152	Resp:	161542
Ion Ratio	Lower	Upper	
152	100		
150	155.3	124.9	187.3
115	59.5	46.0	69.0

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Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 67.20 ng

RT: 5.56 min Scan# 304

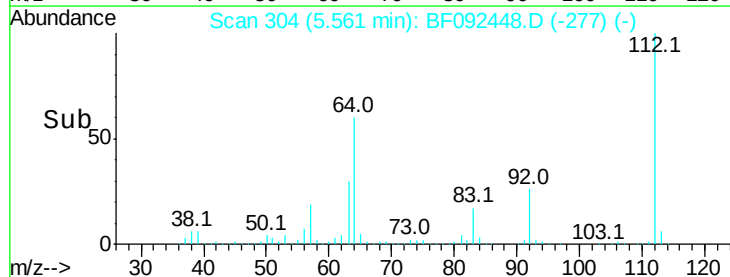
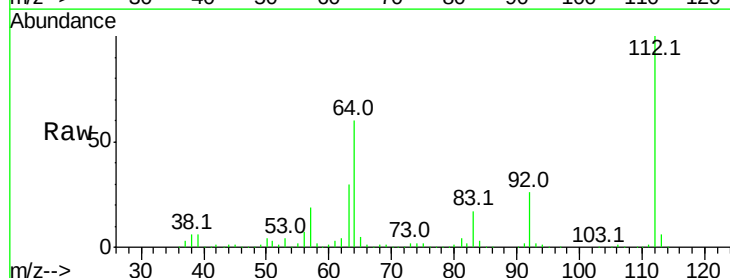
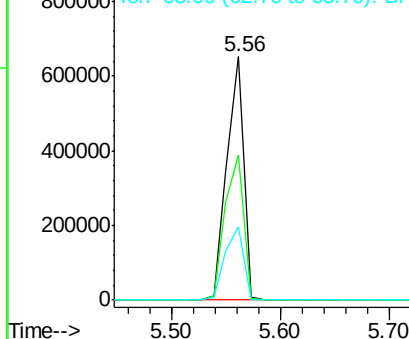
Delta R.T. 0.01 min

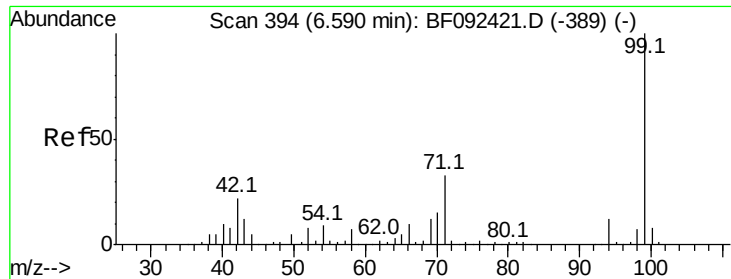
Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Tgt Ion:	112	Resp:	697731
Ion Ratio	Lower	Upper	
112	100		
64	59.6	46.1	69.1
63	30.0	23.8	35.6

Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 105.43 ng

RT: 6.59 min Scan# 394

Delta R.T. -0.00 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

ClientSampleId :

FK-SF-01-001-B

Tot Ion: 99 Resp: 1394335

Ion Ratio Lower Upper

99 100

42 18.3 15.6 23.4

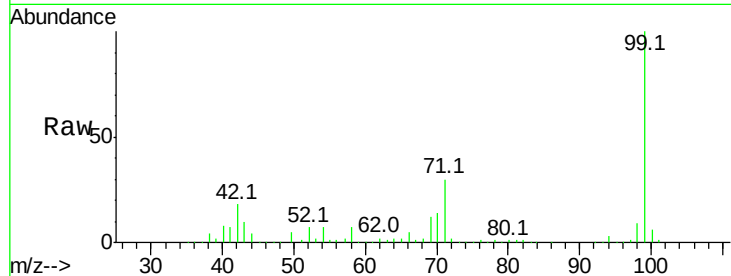
71 30.1 27.5 41.3

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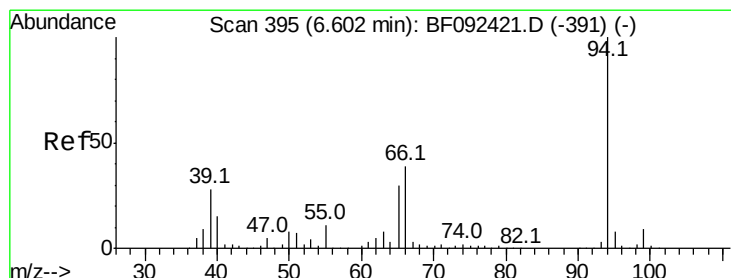
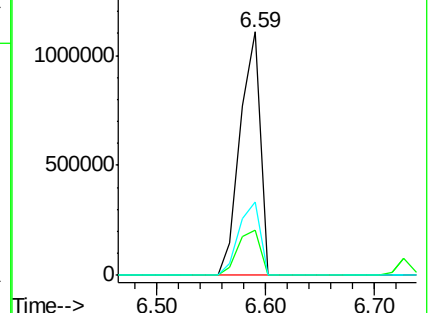
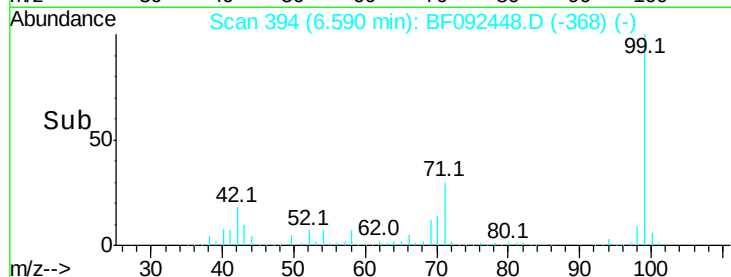
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Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 5.61 ng

RT: 6.60 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

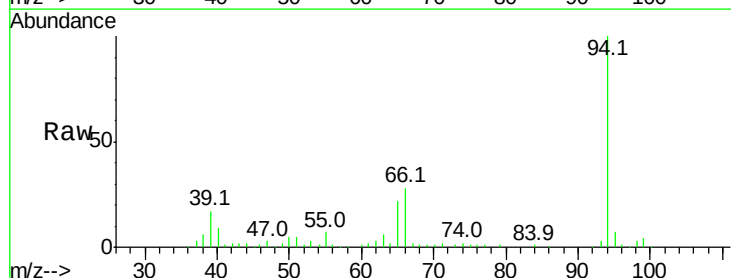
Tgt Ion: 94 Resp: 89587

Ion Ratio Lower Upper

94 100

65 22.4 21.4 61.4

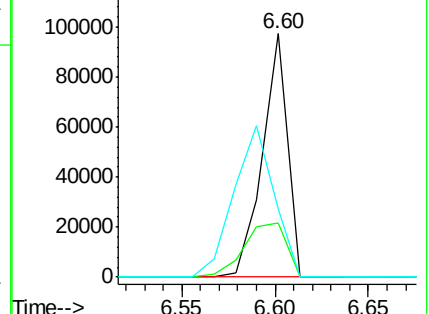
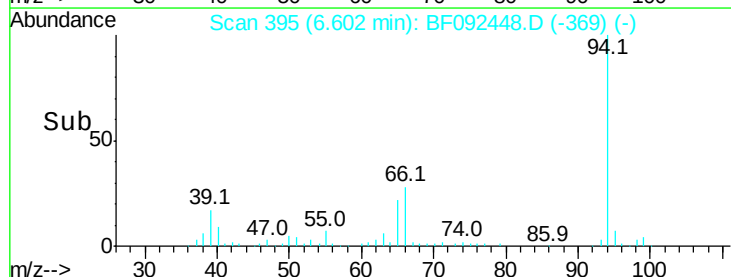
66 27.8 44.0 84.0#

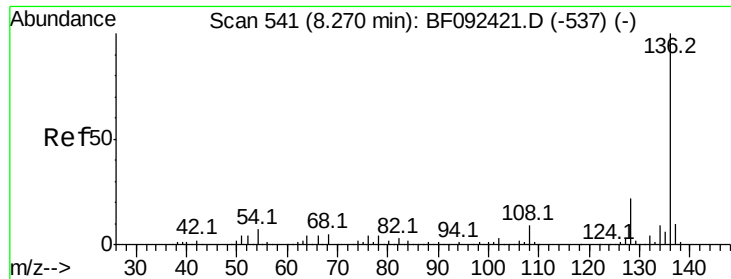


Abundance Ion 94.00 (93.70 to 94.70): BF0

Ion 65.00 (64.70 to 65.70): BF0

Ion 66.00 (65.70 to 66.70): BF0





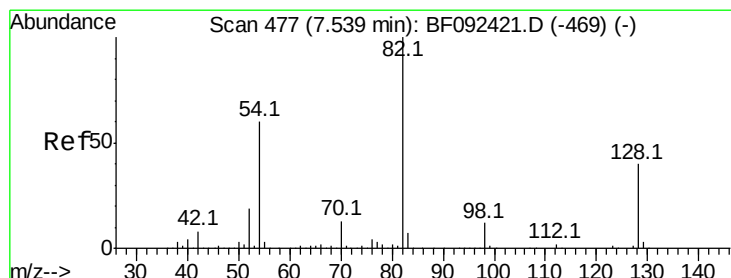
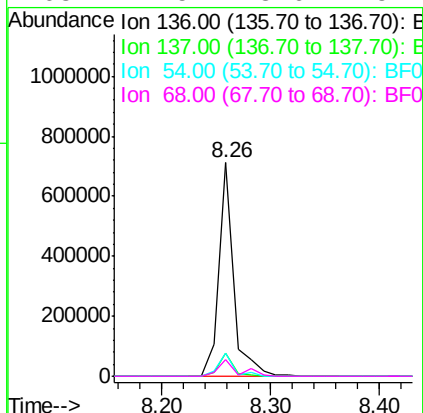
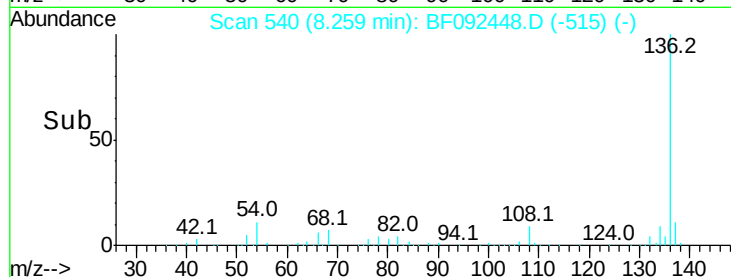
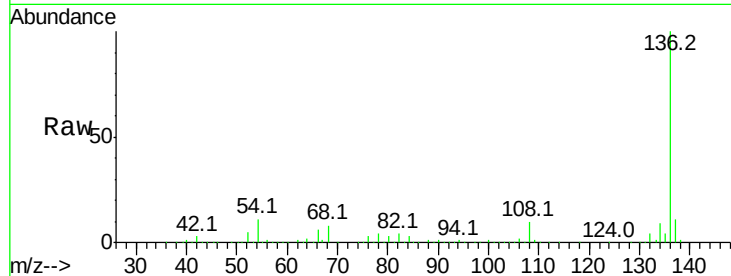
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.26 min Scan# 540
Delta R.T. -0.01 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Instrument :
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ClientSampleId :
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Tot Ion	Ratio	Resp	Lower	Upper
136	100	676539		
137	11.0		8.4	12.6
54	11.0		4.5	6.7#
68	7.5		3.6	5.4#

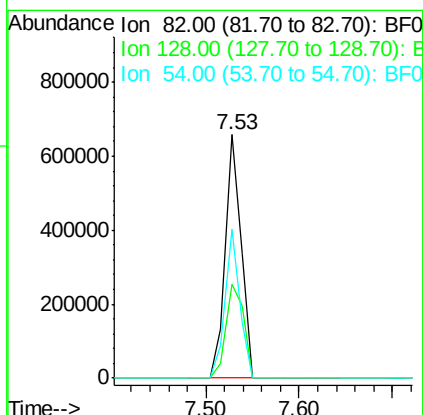
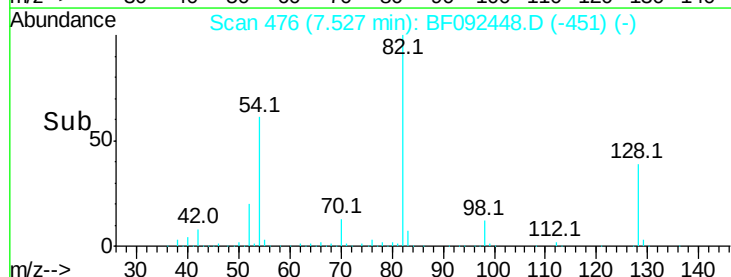
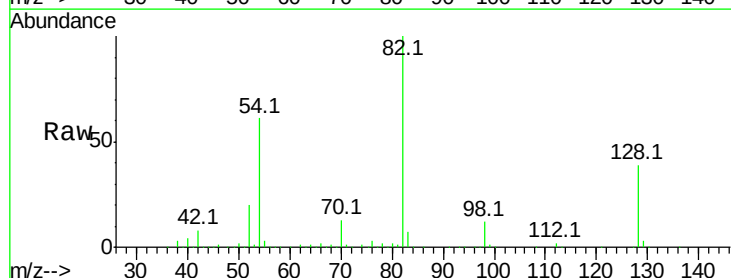
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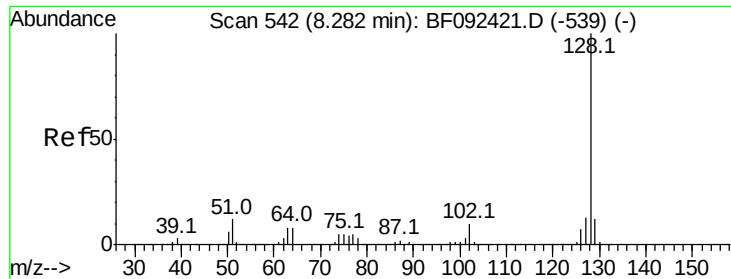
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#23
Nitrobenzene-d5
Concen: 62.83 ng
RT: 7.53 min Scan# 476
Delta R.T. -0.01 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Tgt Ion	Ratio	Resp	Lower	Upper
82	100	778116		
128	38.5		34.6	52.0
54	61.0		39.5	59.3#





#31

Naphthalene

Concen: 10.82 ng

RT: 8.28 min Scan# 542

Delta R.T. -0.00 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

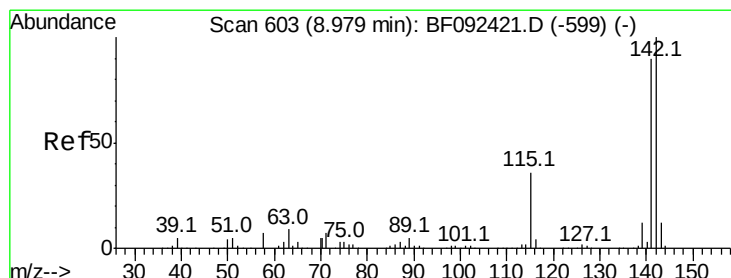
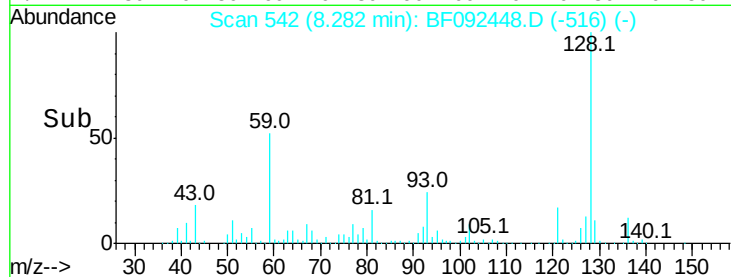
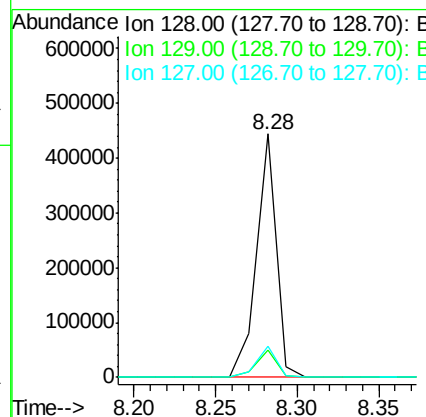
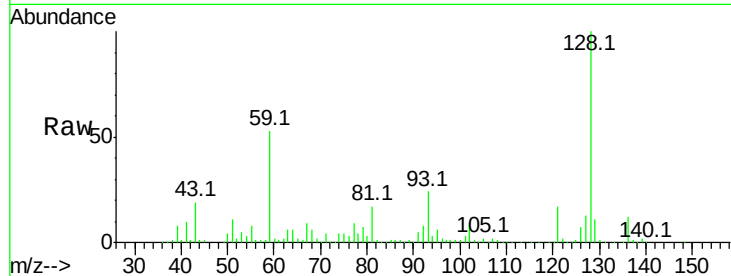
ClientSampleId :

FK-SF-01-001-B

Tot Ion:	128	Resp:	374797
Ion Ratio	Lower	Upper	
128	100		
129	11.0	9.5	14.3
127	13.0	10.8	16.2

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#37

2-Methylnaphthalene

Concen: 5.75 ng

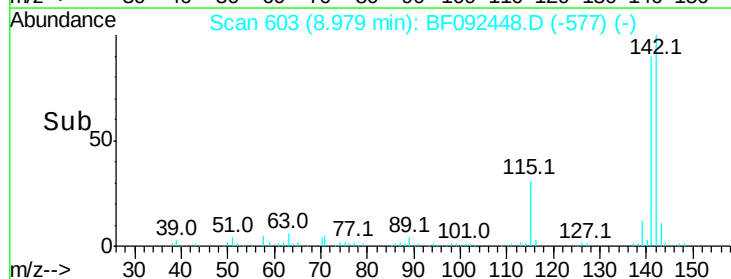
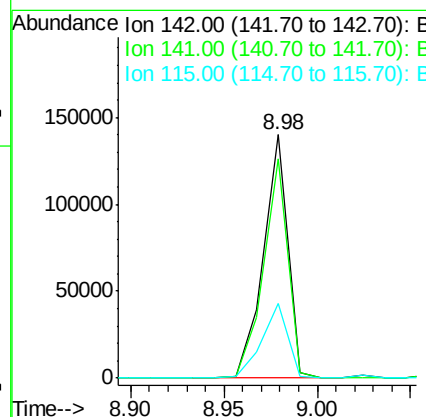
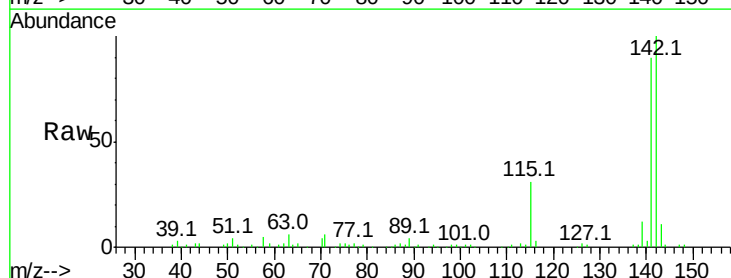
RT: 8.98 min Scan# 603

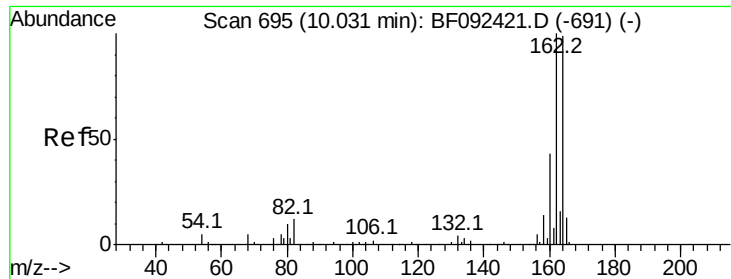
Delta R.T. -0.00 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Tgt Ion:	142	Resp:	125948
Ion Ratio	Lower	Upper	
142	100		
141	89.8	71.0	106.6
115	30.6	28.3	42.5





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.03 min Scan# 695

Delta R.T. -0.00 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

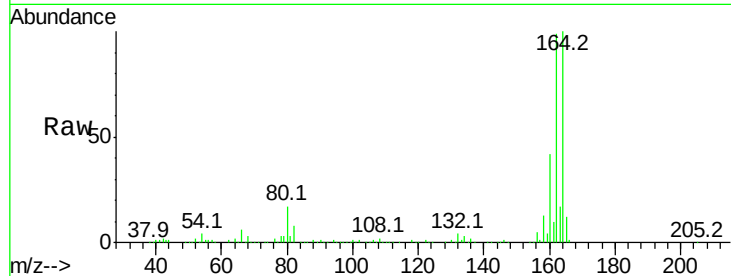
ClientSampleId :

FK-SF-01-001-B

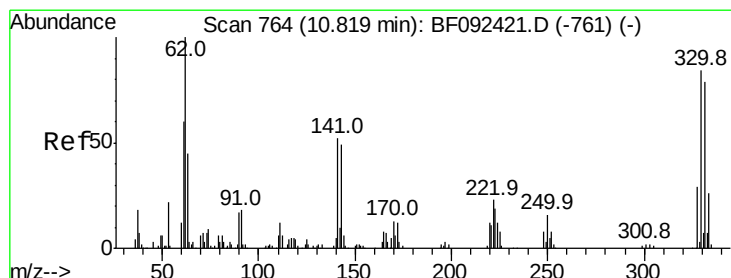
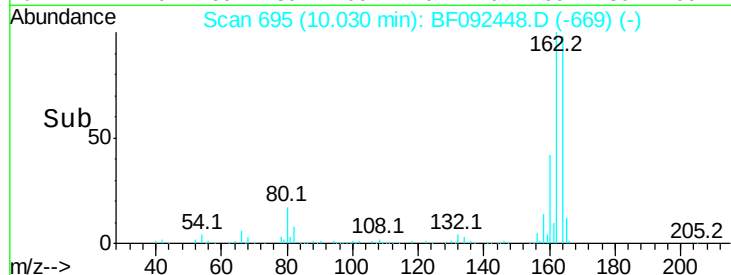
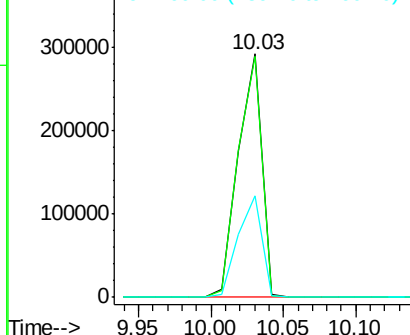
Tot Ion:	164	Resp:	329132
Ion Ratio	Lower	Upper	
164	100		
162	99.2	80.2	120.2
160	41.7	36.9	55.3

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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: 26.81 ng

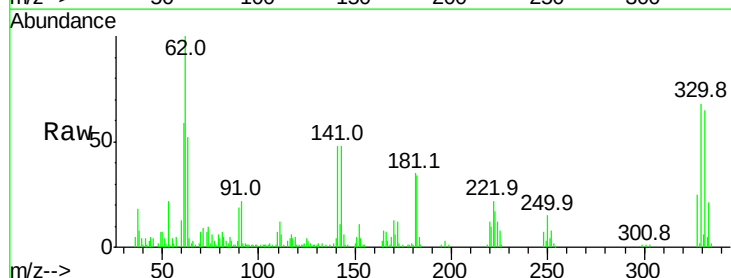
RT: 10.81 min Scan# 763

Delta R.T. -0.01 min

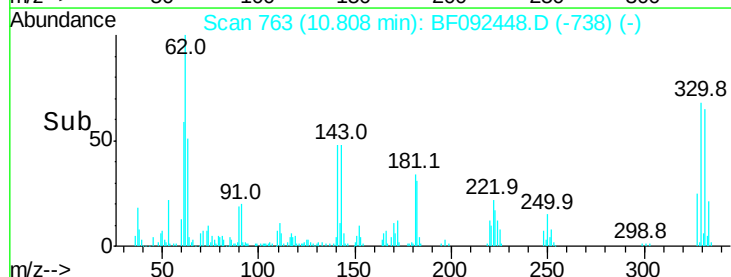
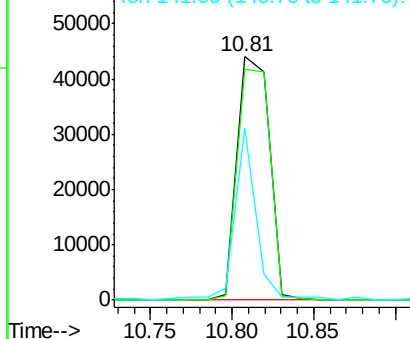
Lab File: BF092448.D

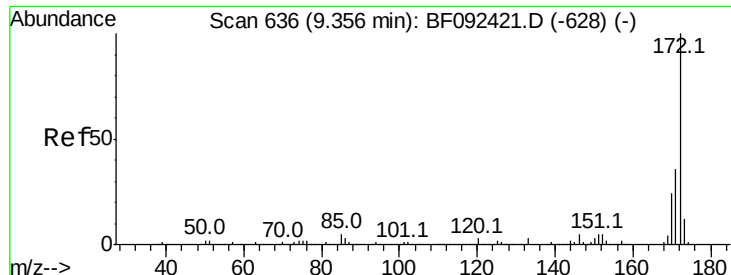
Acq: 25 Jan 2017 00:08

Tgt Ion:	330	Resp:	60124
Ion Ratio	Lower	Upper	
330	100		
332	97.1	77.4	116.2
141	47.0	34.1	51.1



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





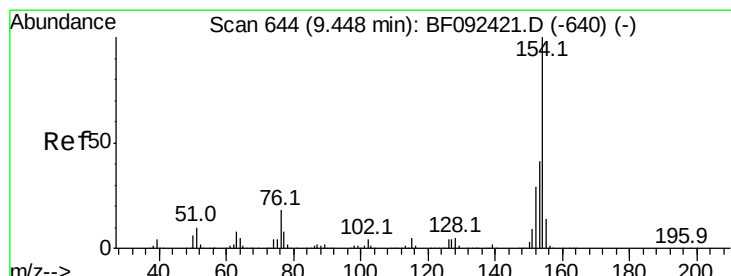
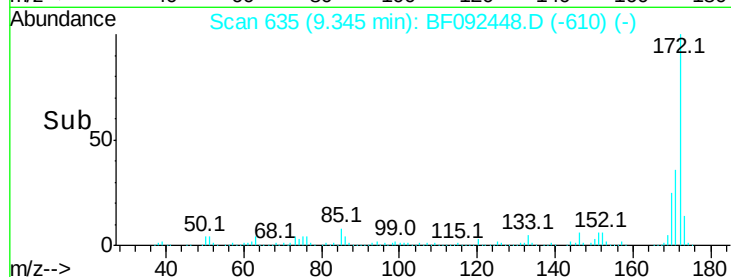
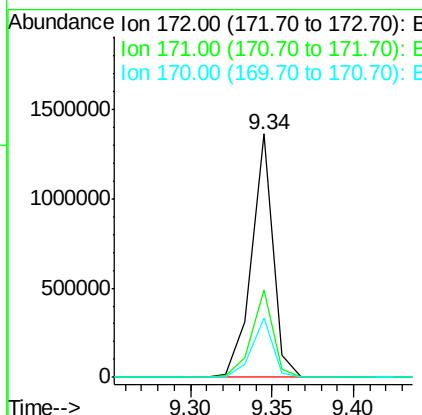
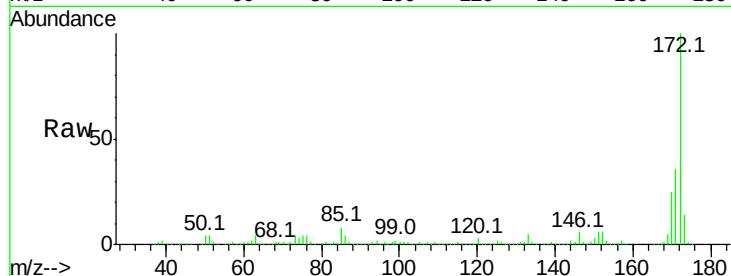
#44
2-Fluorobiphenyl
Concen: 70.11 ng
RT: 9.34 min Scan# 635
Delta R.T. -0.01 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Instrument :
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FK-SF-01-001-B

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.4	44.0
170	24.6	20.2	30.4

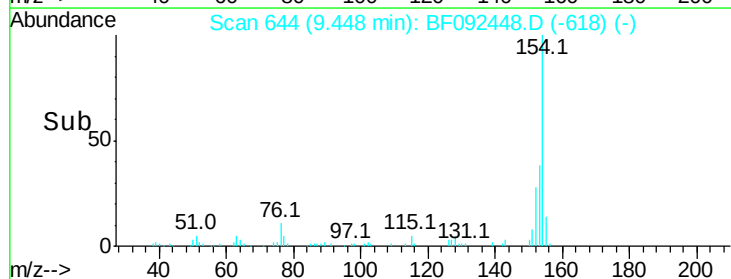
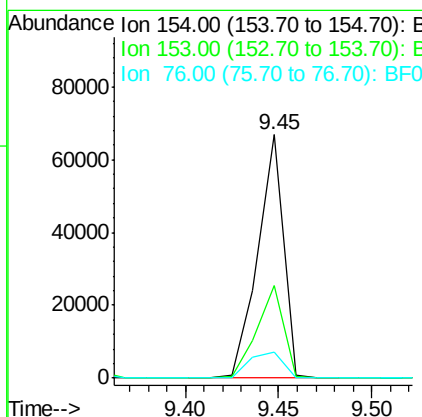
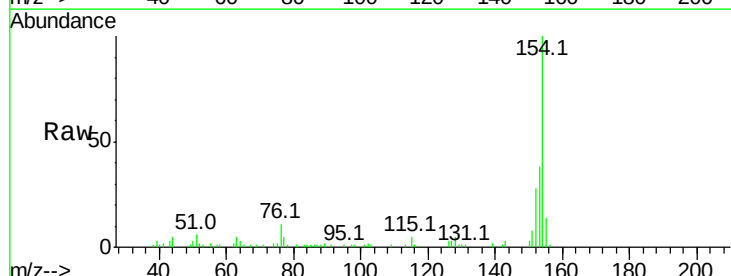
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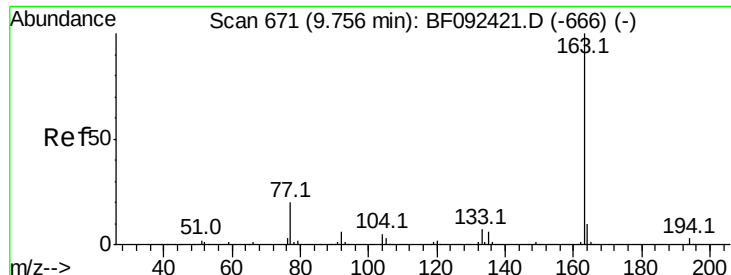
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#45
1,1'-Biphenyl
Concen: 2.67 ng
RT: 9.45 min Scan# 644
Delta R.T. -0.00 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Tgt Ion	Ratio	Lower	Upper
154	100		
153	38.0	20.9	60.9
76	10.6	0.0	30.5





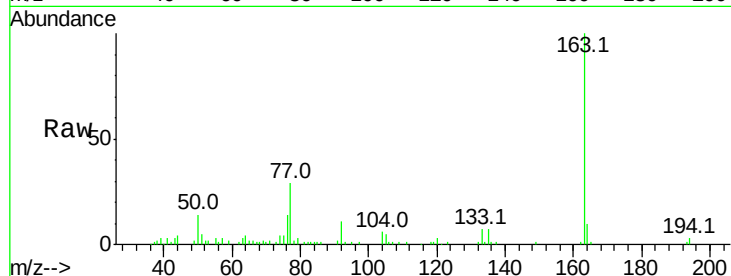
#49
Dimethylphthalate
Concen: 4.54 ng
RT: 9.73 min Scan# 669
Delta R.T. -0.02 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Instrument :
BNA_F
ClientSampleId :
FK-SF-01-001-B

Tot Ion	Ratio	Lower	Upper
163	100		
194	3.2	3.0	4.4
164	10.2	8.0	12.0

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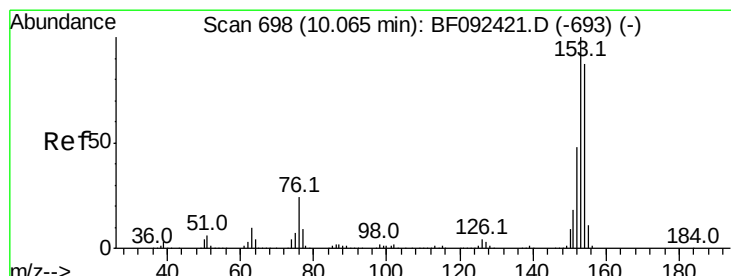
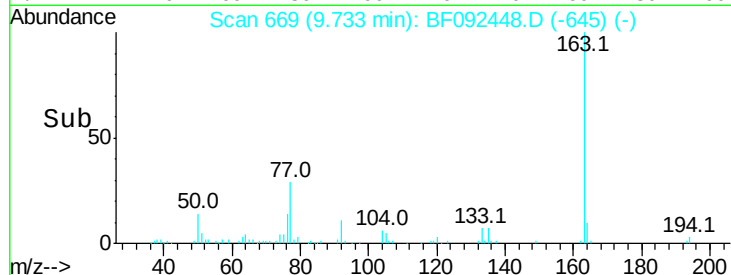
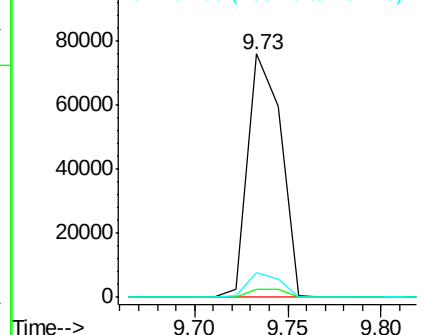


Abundance

Ion 163.00 (162.70 to 163.70): E

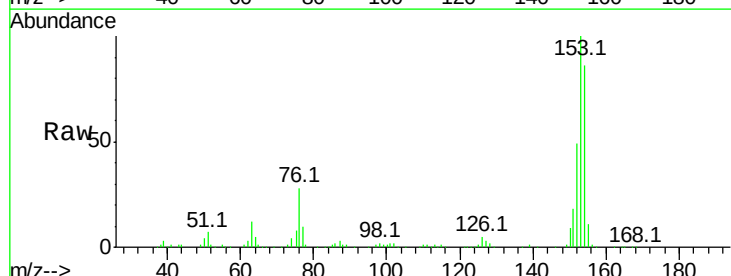
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51
Acenaphthene
Concen: 15.01 ng
RT: 10.05 min Scan# 697
Delta R.T. -0.01 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Tgt Ion	Ratio	Lower	Upper
154	100		
153	116.0	88.6	133.0
152	56.5	41.6	62.4

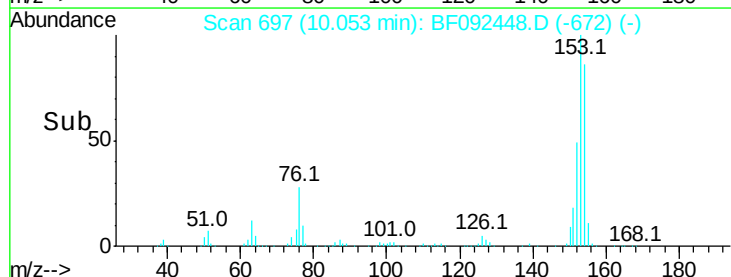
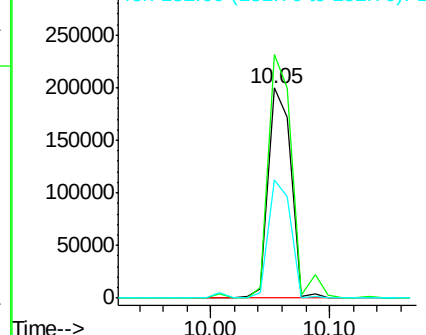


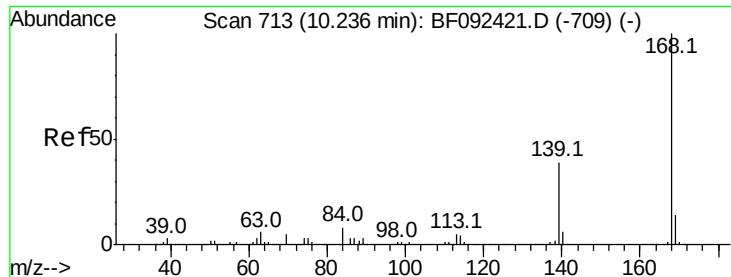
Abundance

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: 11.95 ng

RT: 10.24 min Scan# 713

Delta R.T. -0.00 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

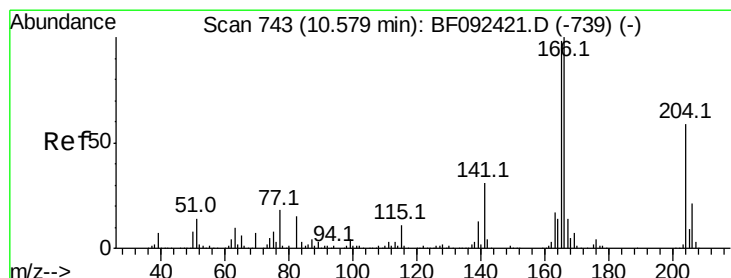
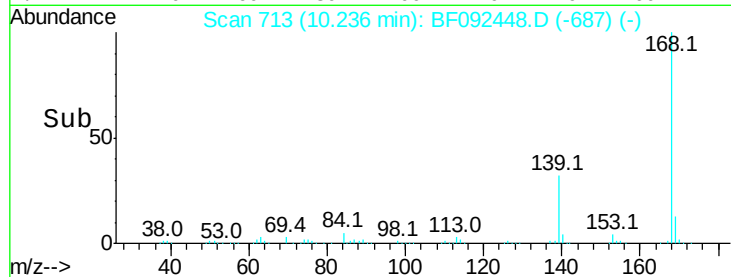
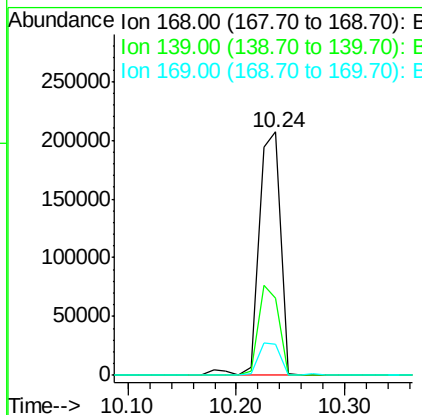
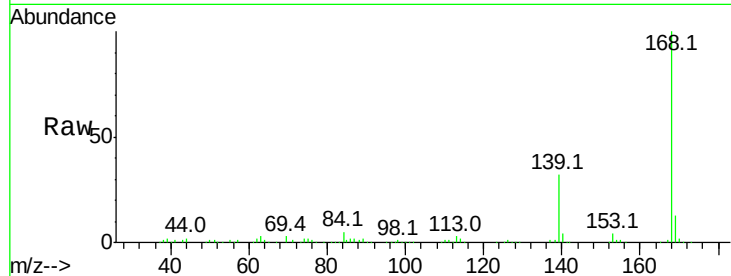
ClientSampleId :

FK-SF-01-001-B

Tot Ion	Ratio	Lower	Upper
168	100		
139	31.5	32.6	49.0#
169	12.6	11.3	16.9

Manual Integrations
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#57

Fluorene

Concen: 14.65 ng

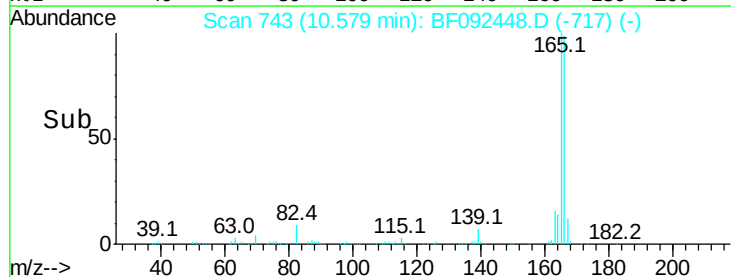
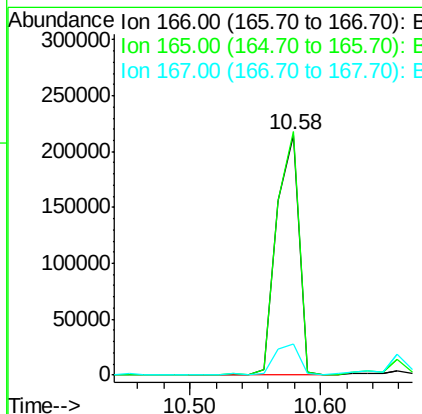
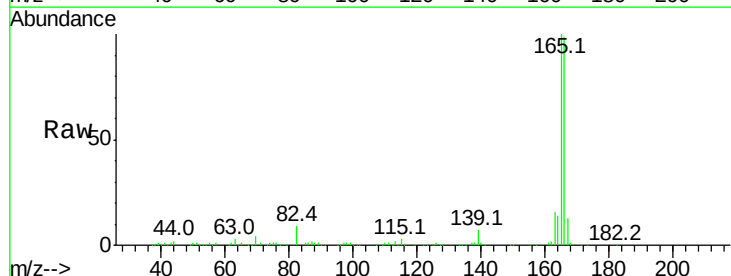
RT: 10.58 min Scan# 743

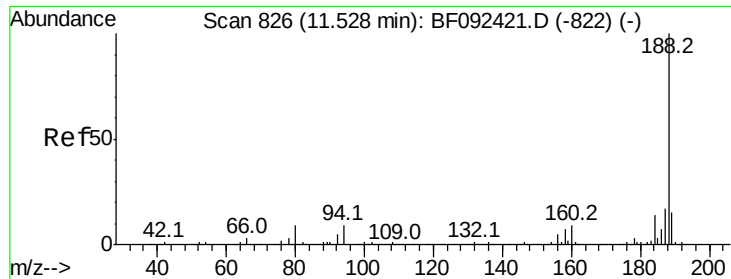
Delta R.T. -0.00 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.4	77.8	116.8
167	12.7	10.8	16.2





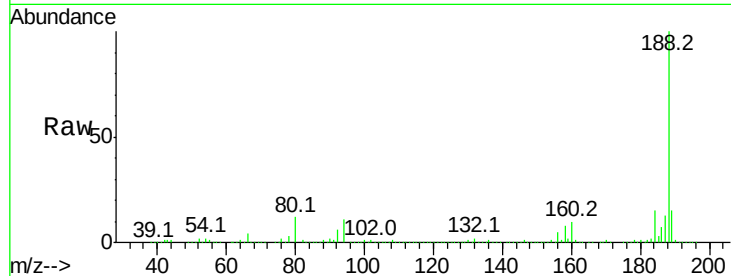
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.52 min Scan# 825
Delta R.T. -0.01 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Instrument :
BNA_F
ClientSampleId :
FK-SF-01-001-B

Tot Ion	Ratio	Resp	Lower	Upper
188	100	499810		
94	10.6		10.0	15.0
80	11.5		11.2	16.8

Manual Integrations
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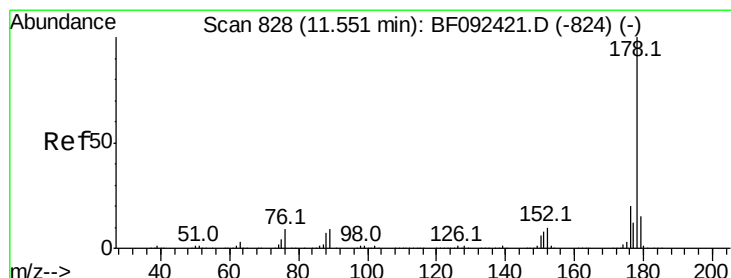
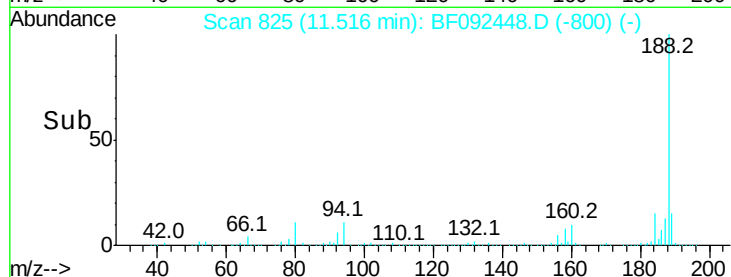
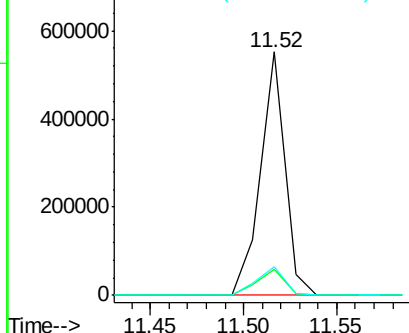
mohammad
1/25/2017 3:50:01 PM



Abundance Ion 188.00 (187.70 to 188.70): E

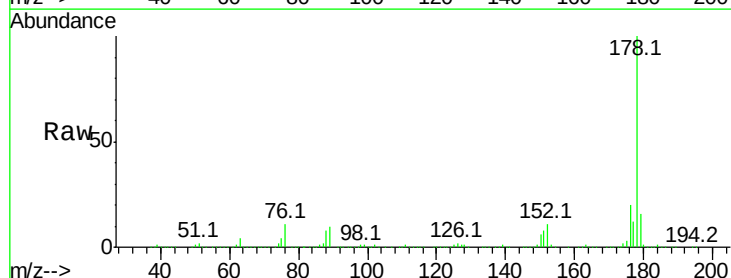
Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70
Phenanthrene
Concen: 35.27 ng
RT: 11.54 min Scan# 827
Delta R.T. -0.01 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

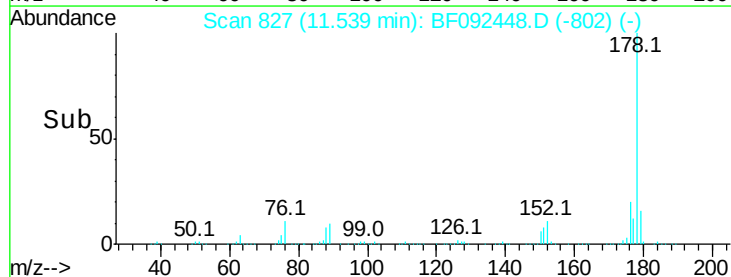
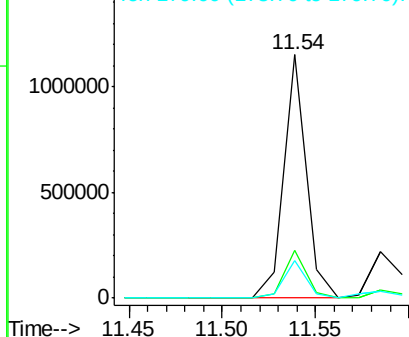
Tgt Ion	Ratio	Resp	Lower	Upper
178	100	970871		
176	19.9		16.6	25.0
179	15.6		12.8	19.2

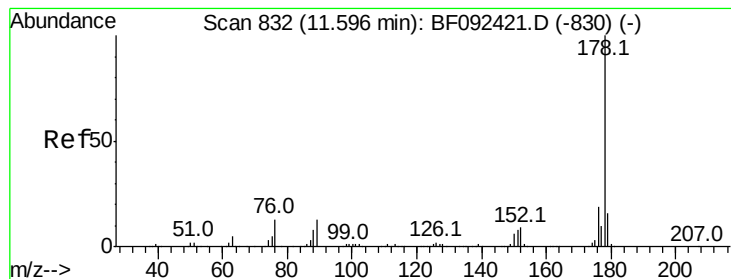


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 9.00 ng

RT: 11.58 min Scan# 831

Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

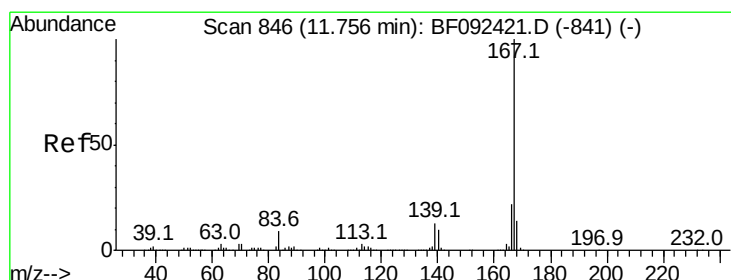
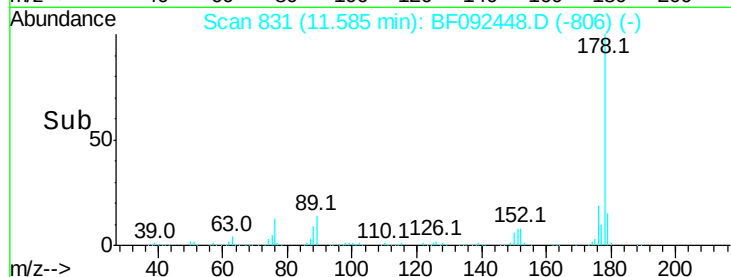
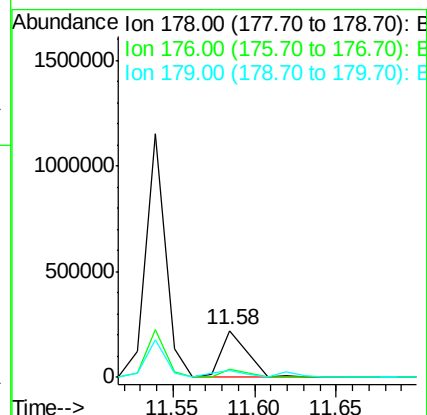
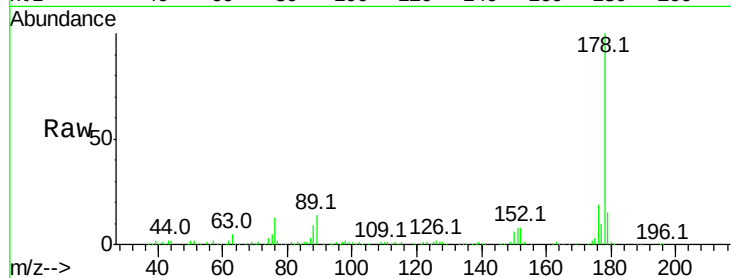
ClientSampleId :

FK-SF-01-001-B

Tot Ion:	178	Resp:	242093
Ion Ratio	Lower	Upper	
178	100		
176	18.7	15.9	23.9
179	15.3	13.2	19.8

Manual Integrations
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#72

Carbazole

Concen: 4.32 ng

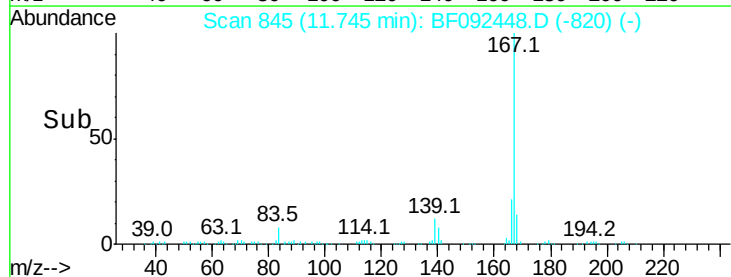
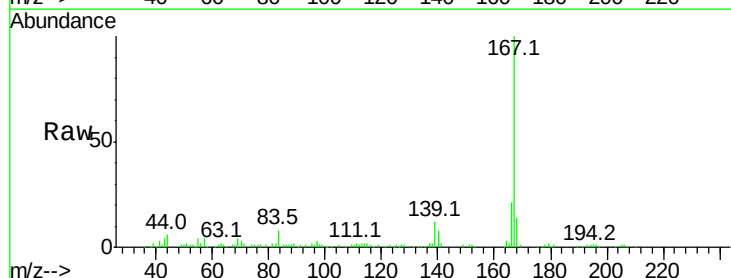
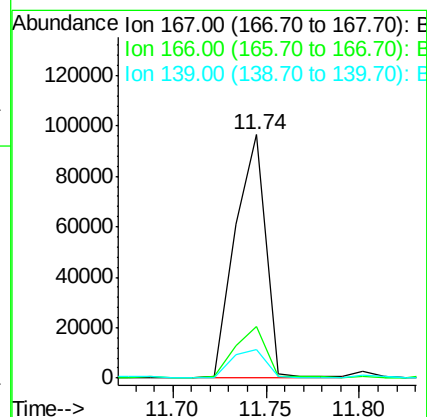
RT: 11.74 min Scan# 845

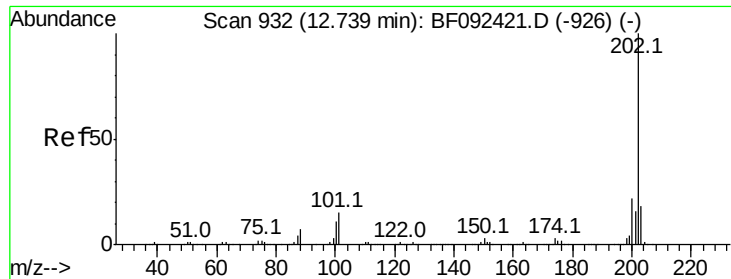
Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Tgt Ion:	167	Resp:	110933
Ion Ratio	Lower	Upper	
167	100		
166	21.4	18.2	27.2
139	11.8	11.4	17.2





#74

Fluoranthene

Concen: 21.55 ng

RT: 12.73 min Scan# 931

Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

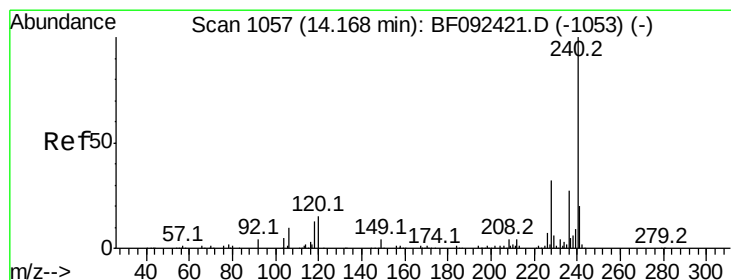
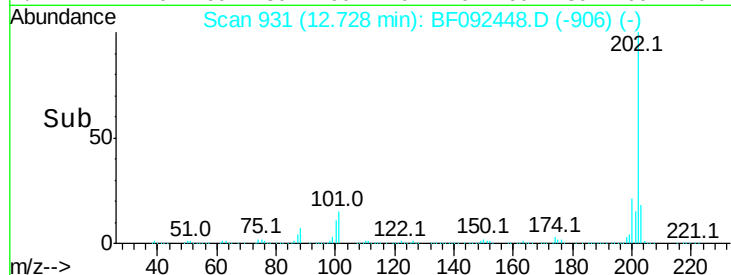
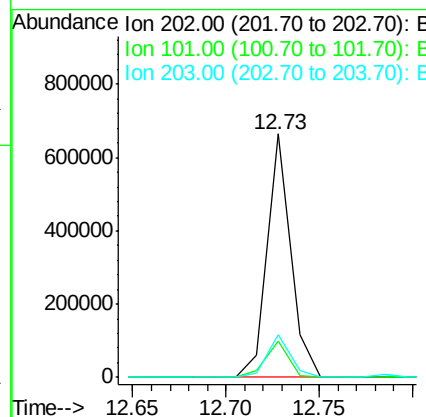
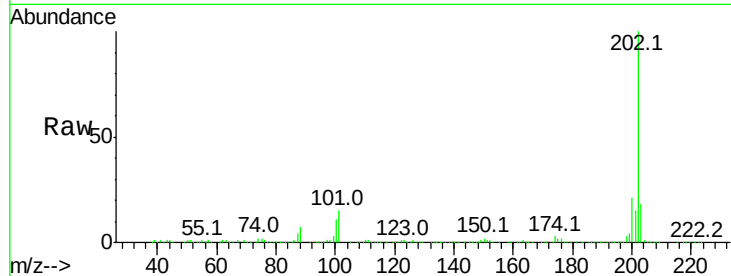
ClientSampleId :

FK-SF-01-001-B

Tot Ion	Ratio	Resp	Lower	Upper
202	100	580072		
101	14.7	0.0	34.6	
203	17.7	0.0	38.7	

Manual Integrations
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#75

Chrysene-d12

Concen: 20.00 ng

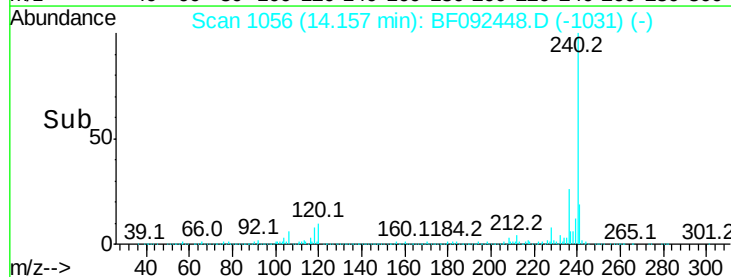
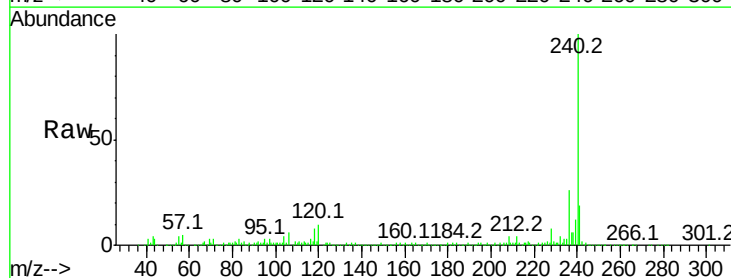
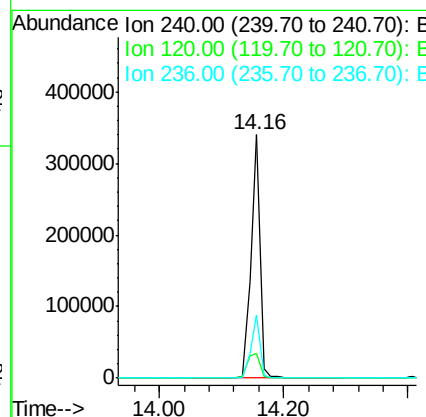
RT: 14.16 min Scan# 1056

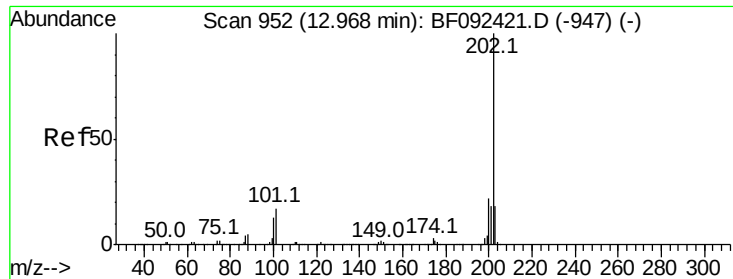
Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Tgt Ion	Ratio	Resp	Lower	Upper
240	100	344903		
120	10.3	12.9	19.3#	
236	26.1	20.9	31.3	





#77

Pvrene

Concen: 18.52 ng

RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

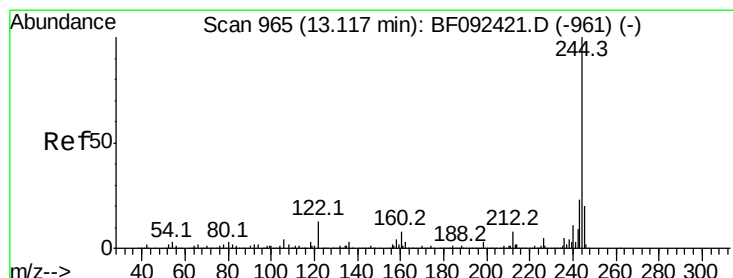
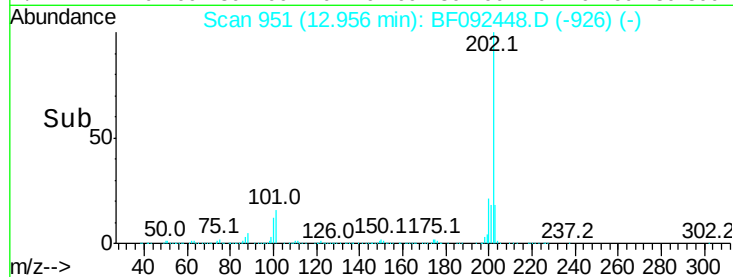
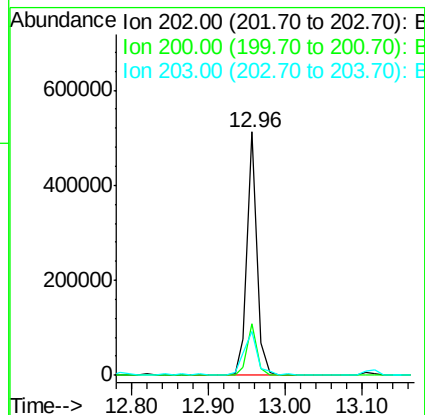
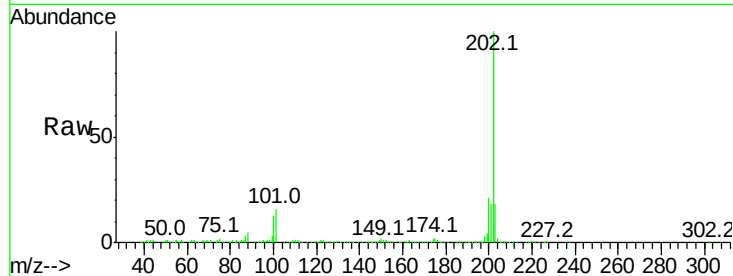
ClientSampleId :

FK-SF-01-001-B

Tot Ion:	202	Resp:	462825
Ion Ratio	Lower	Upper	
202	100		
200	21.3	17.7	26.5
203	18.1	14.7	22.1

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1/25/2017 3:50:01 PM



#78

Terphenyl-d14

Concen: 69.71 ng

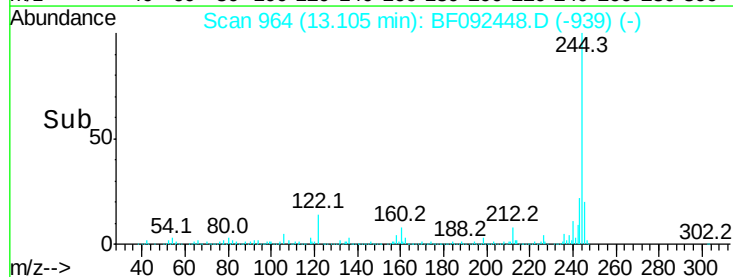
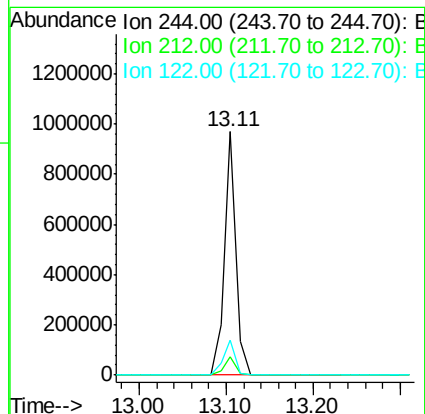
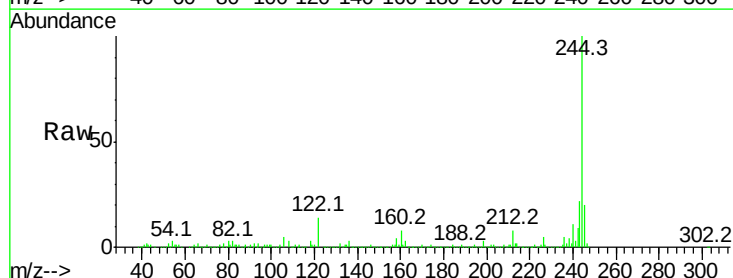
RT: 13.11 min Scan# 964

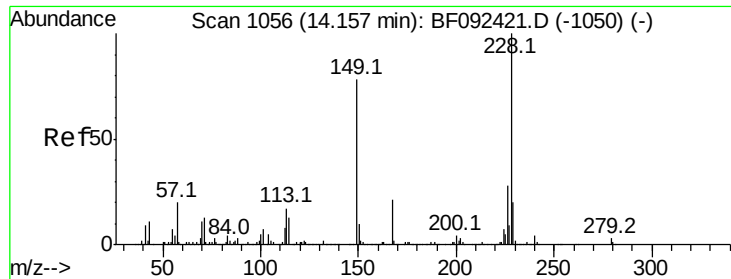
Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Tgt Ion:	244	Resp:	902953
Ion Ratio	Lower	Upper	
244	100		
212	7.6	6.2	9.2
122	14.5	11.4	17.2





#80

Benzo(a)anthracene

Concen: 9.32 ng

RT: 14.15 min Scan# 1055

Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

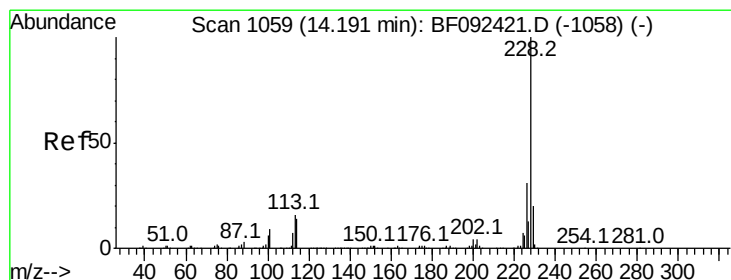
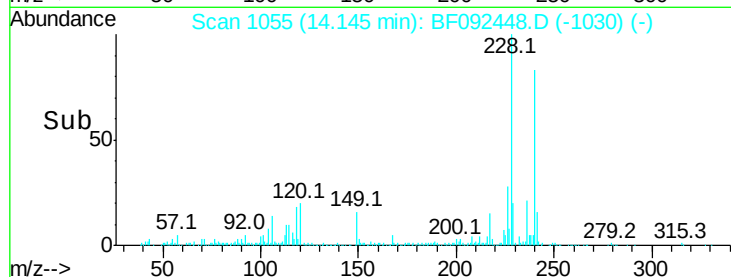
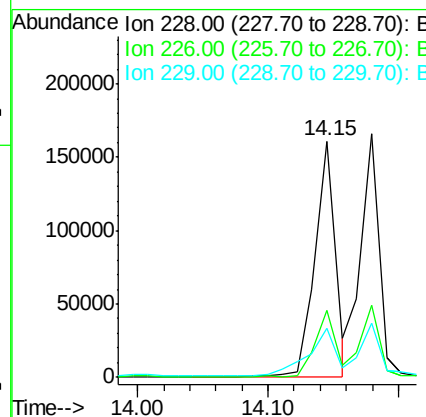
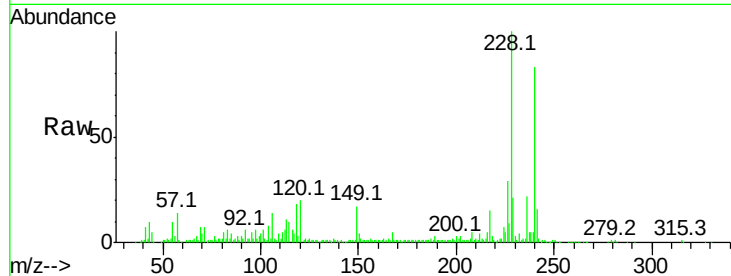
ClientSampleId :

FK-SF-01-001-B

Tot Ion:	228	Resp:	172722
Ion Ratio	Lower	Upper	
228	100		
226	28.6	22.4	33.6
229	20.9	16.2	24.4

Manual Integrations
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mohammad
1/25/2017 3:50:01 PM



#82

Chrysene

Concen: 8.19 ng m

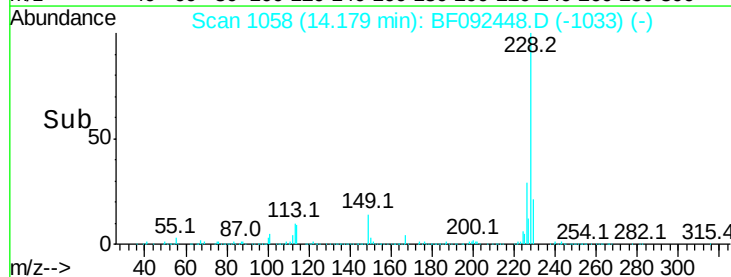
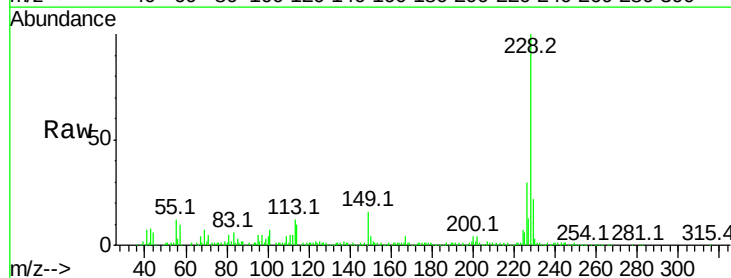
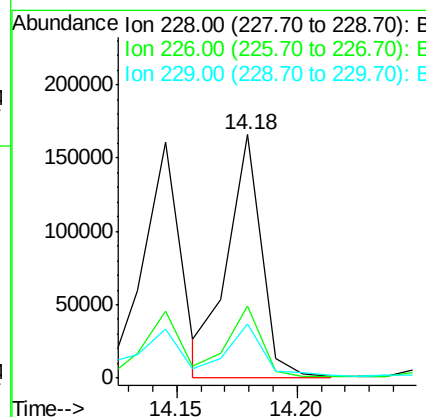
RT: 14.18 min Scan# 1058

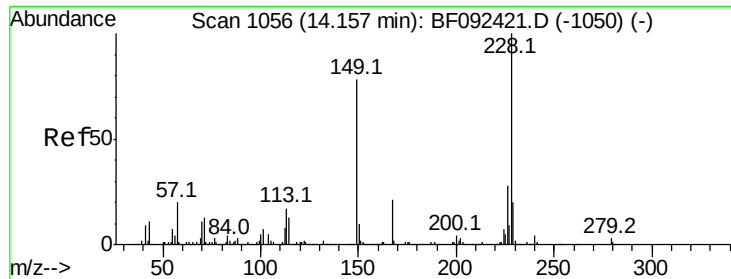
Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Tgt Ion:	228	Resp:	162177
Ion Ratio	Lower	Upper	
228	100		
226	29.8	25.4	38.0
229	22.0	16.2	24.2





#83

Bis(2-ethylhexyl)phthalate

Concen: 2.25 ng/ml

RT: 14.15 min Scan# 1055

Delta R.T. -0.01 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Instrument :

BNA_F

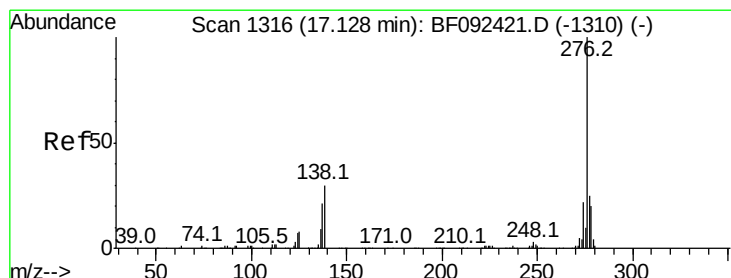
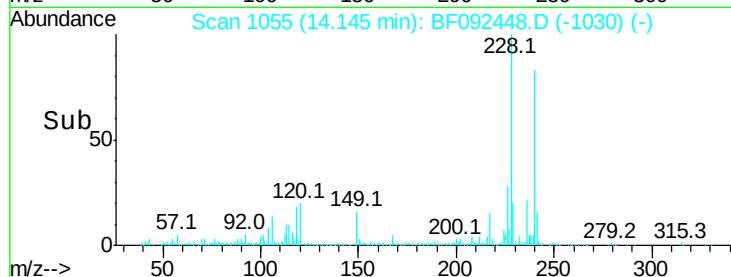
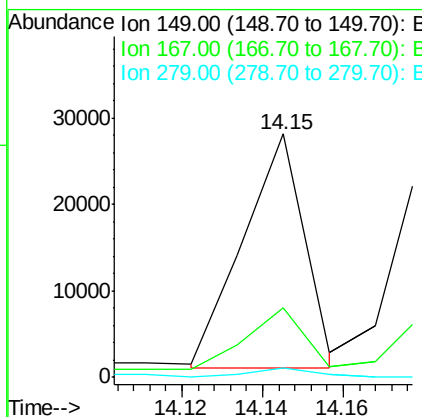
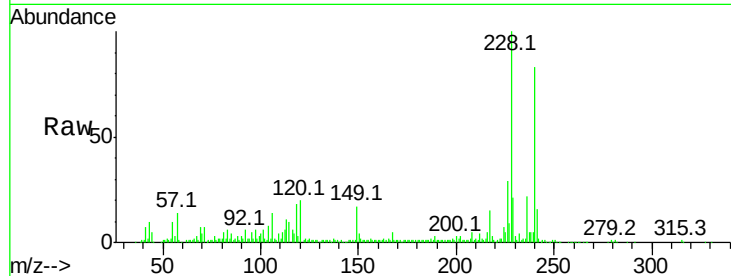
ClientSampleId :

FK-SF-01-001-B

Tot Ion:	149	Resp:	28649
Ion Ratio	Lower	Upper	
149	100		
167	28.4	20.2	30.4
279	3.6	1.8	2.8#

Manual Integrations
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mohammad
1/25/2017 3:50:01 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 4.68 ng/ml

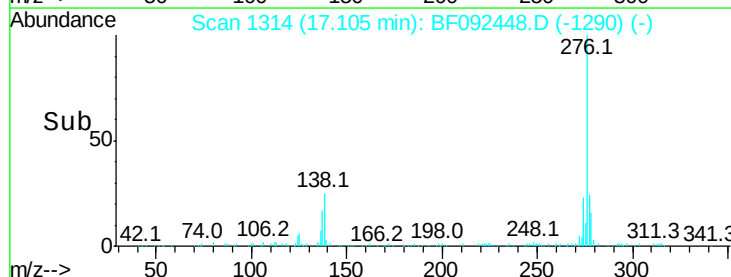
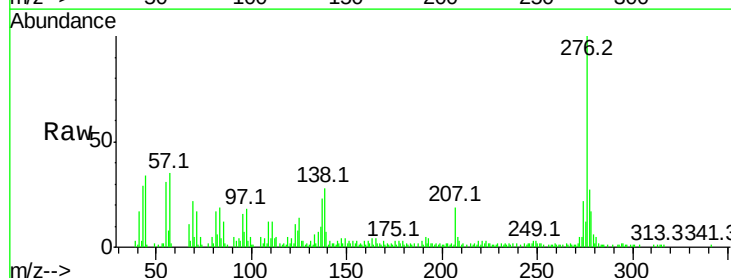
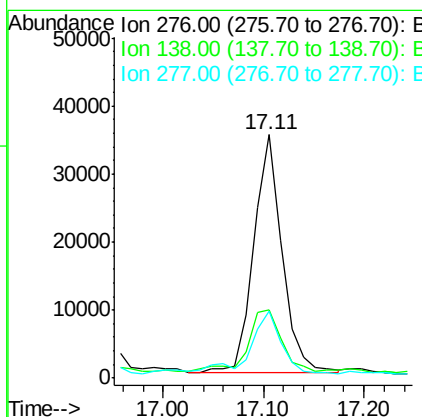
RT: 17.11 min Scan# 1314

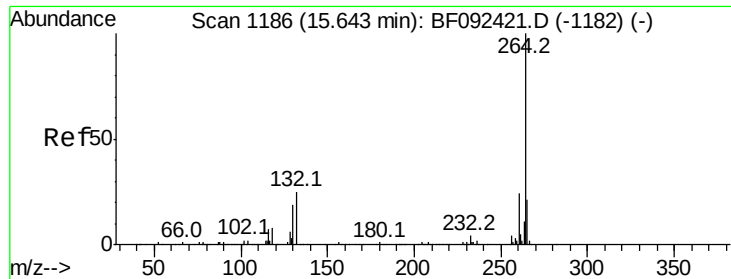
Delta R.T. -0.02 min

Lab File: BF092448.D

Acq: 25 Jan 2017 00:08

Tgt Ion:	276	Resp:	68474
Ion Ratio	Lower	Upper	
276	100		
138	31.3	21.8	32.6
277	31.2	20.2	30.4#





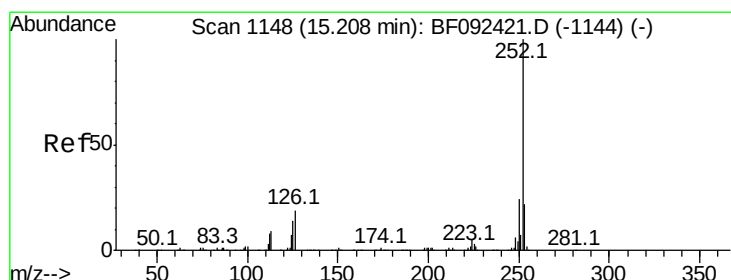
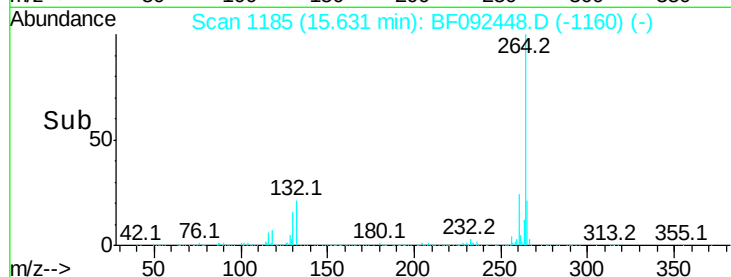
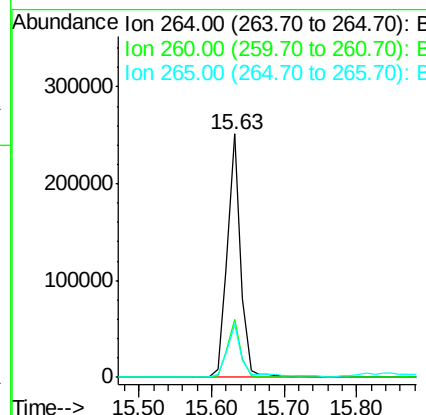
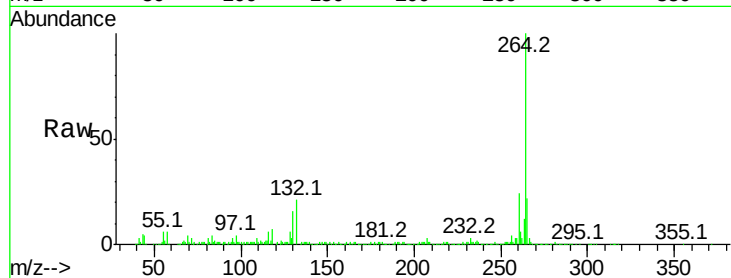
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.63 min Scan# 1185
Delta R.T. -0.01 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Instrument :
BNA_F
ClientSampleId :
FK-SF-01-001-B

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.2	28.8
265	21.5	17.4	26.0

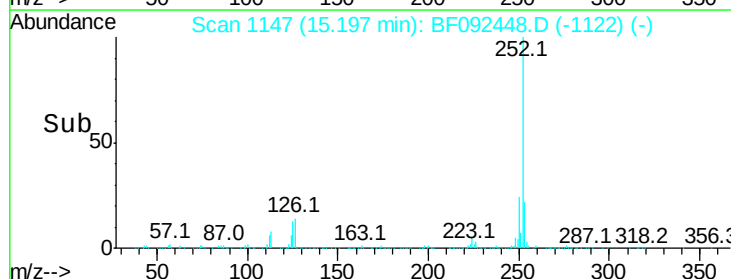
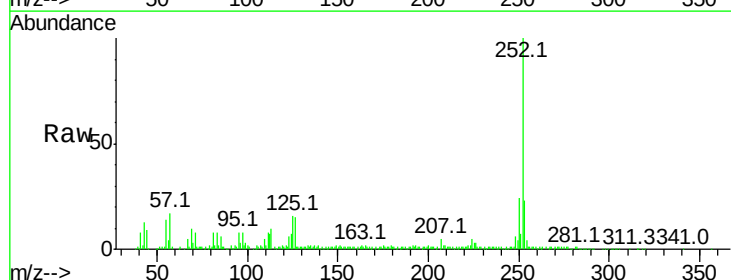
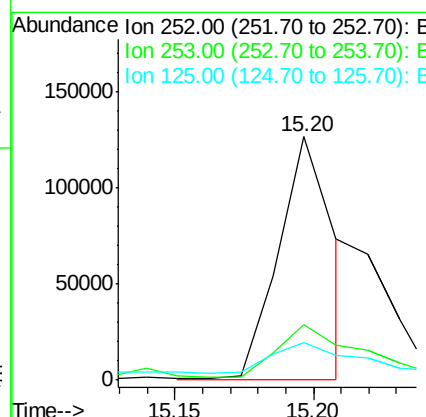
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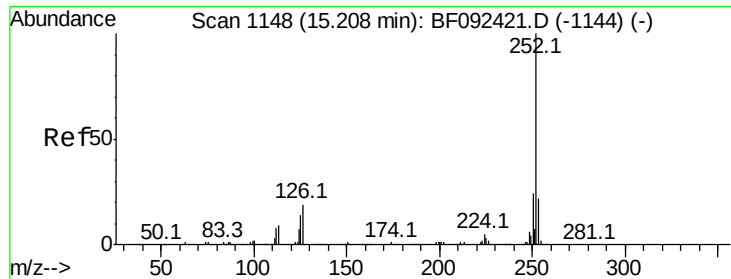
mohammad
1/25/2017 3:50:01 PM



#87
Benzo(b)fluoranthene
Concen: 8.46 ng m
RT: 15.20 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.4
125	15.6	9.8	14.6





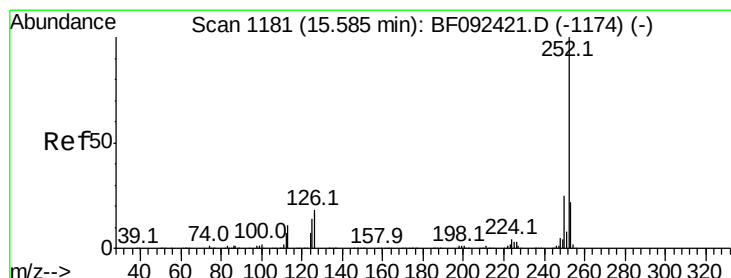
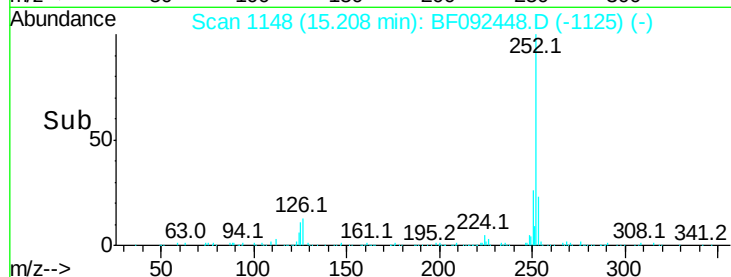
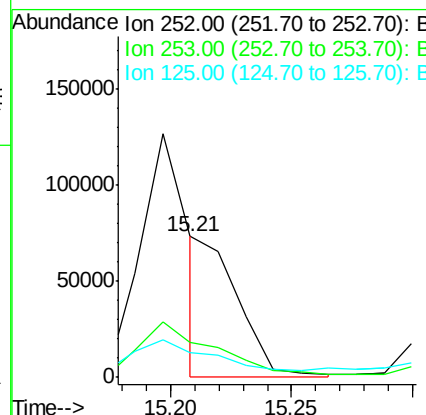
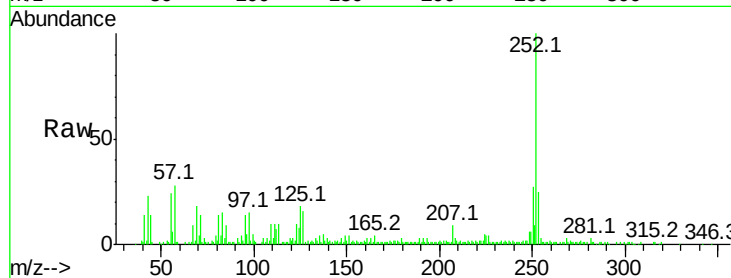
#88
Benzo(k)fluoranthene
Concen: 4.17 ng m
RT: 15.21 min Scan# 1148
Delta R.T. -0.03 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Instrument :
BNA_F
ClientSampleId :
FK-SF-01-001-B

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.5	27.7
125	17.9	8.9	13.3

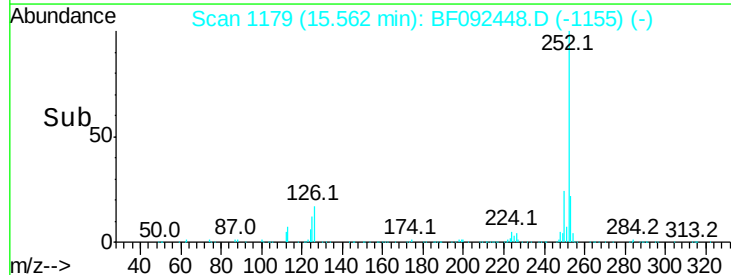
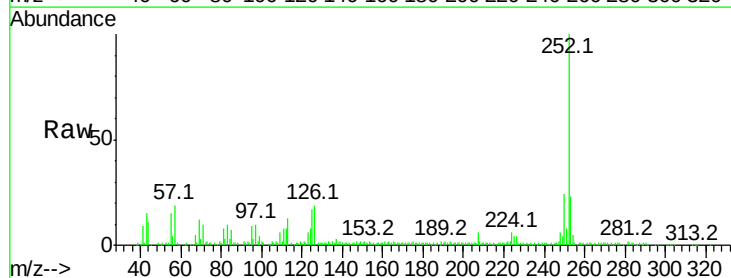
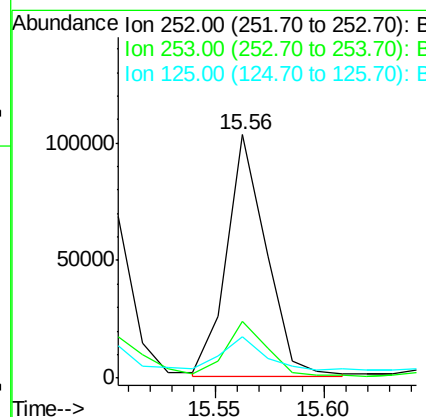
Manual Integrations
APPROVED

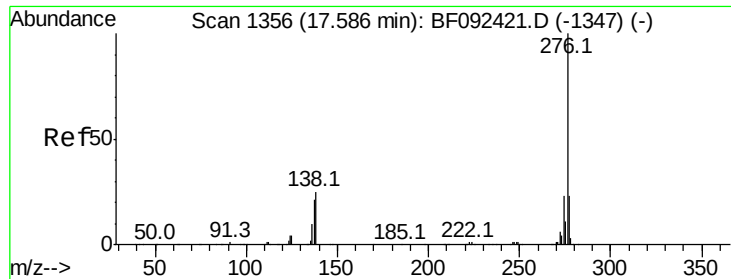
mohammad
1/25/2017 3:50:01 PM



#89
Benzo(a)pyrene
Concen: 7.37 ng
RT: 15.56 min Scan# 1179
Delta R.T. -0.02 min
Lab File: BF092448.D
Acq: 25 Jan 2017 00:08

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	16.8	10.0	15.0





#91
 Benzo(a,h,i)perylene
 Concen: 4.85 ng
 RT: 17.55 min Scan# 1353
 Delta R.T. -0.03 min
 Lab File: BF092448.D
 Acq: 25 Jan 2017 00:08

Instrument :
 BNA_F
 ClientSampleId :
 FK-SF-01-001-B

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.2	28.8
138	29.6	16.0	24.0

Manual Integrations
 APPROVED

mohammad
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