

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111414\
 Data File : BF075561.D
 Acq On : 16 Nov 2014 00:44
 Operator : TP / JJ
 Sample : F4706-02
 Misc :
 ALS Vial : 59 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-05(25-27)-111014

Manual Integrations
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Quant Time: Nov 17 14:23:01 2014
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111214.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Nov 17 04:16:34 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.57	152	59179	20.00	ng	0.01
21) Naphthalene-d8	9.16	136	98057m	20.00	ng	0.02
38) Acenaphthene-d10	11.33	164	147919	20.00	ng	0.01
63) Phenanthrene-d10	13.19	188	172738	20.00	ng	0.02
75) Chrysene-d12	16.49	240	186743	20.00	ng	0.01
86) Perylene-d12	18.23	264	233381	20.00	ng	-0.06

System Monitoring Compounds

5) 2-Fluorophenol	5.86	112	201890	60.27	ng	0.01
7) Phenol-d6	7.12	99	427403	106.10	ng	0.01
23) Nitrobenzene-d5	8.26	82	235156	175.82	ng	0.01
41) 2,4,6-Tribromophenol	12.32	330	61610	49.73	ng	0.01
44) 2-Fluorobiphenyl	10.49	172	387855	47.38	ng	0.01
78) Terphenyl-d14	15.18	244	351869	50.73	ng	0.01

Target Compounds

						Qvalue
31) Naphthalene	9.19	128	10519248m	2406.22	ng	
37) 2-Methylnaphthalene	10.08	142	9178161	3077.26	ng	95
45) 1,1'-Biphenyl	10.63	154	3095001	310.19	ng	97
48) Acenaphthylene	11.17	152	2313120	179.83	ng	# 88
51) Acenaphthene	11.42	154	6556249	844.38	ng	97
54) Dibenzofuran	11.59	168	659140	59.40	ng	# 82
57) Fluorene	12.04	166	4164912	464.10	ng	97
70) Phenanthrene	13.26	178	11794251	1297.36	ng	# 92
71) Anthracene	13.32	178	4534598	482.56	ng	# 94
72) Carbazole	13.49	167	611874	66.55	ng	93
74) Fluoranthene	14.73	202	5568493	571.88	ng	95
77) Pyrene	15.03	202	8547619m	787.35	ng	
80) Benzo(a)anthracene	16.48	228	2934953	299.17	ng	# 69
82) Chrysene	16.53	228	2216991	261.29	ng	# 91
85) Indeno(1,2,3-cd)pyrene	19.82	276	1449648m	140.83	ng	
87) Benzo(b)fluoranthene	17.77	252	2519933m	201.95	ng	
88) Benzo(k)fluoranthene	17.80	252	491825m	43.92	ng	
89) Benzo(a)pyrene	18.19	252	2798632	250.66	ng	96
90) Dibenzo(a,h)anthracene	19.83	278	304441	26.11	ng	93
91) Benzo(g,h,i)perylene	20.31	276	1833835	165.08	ng	95

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

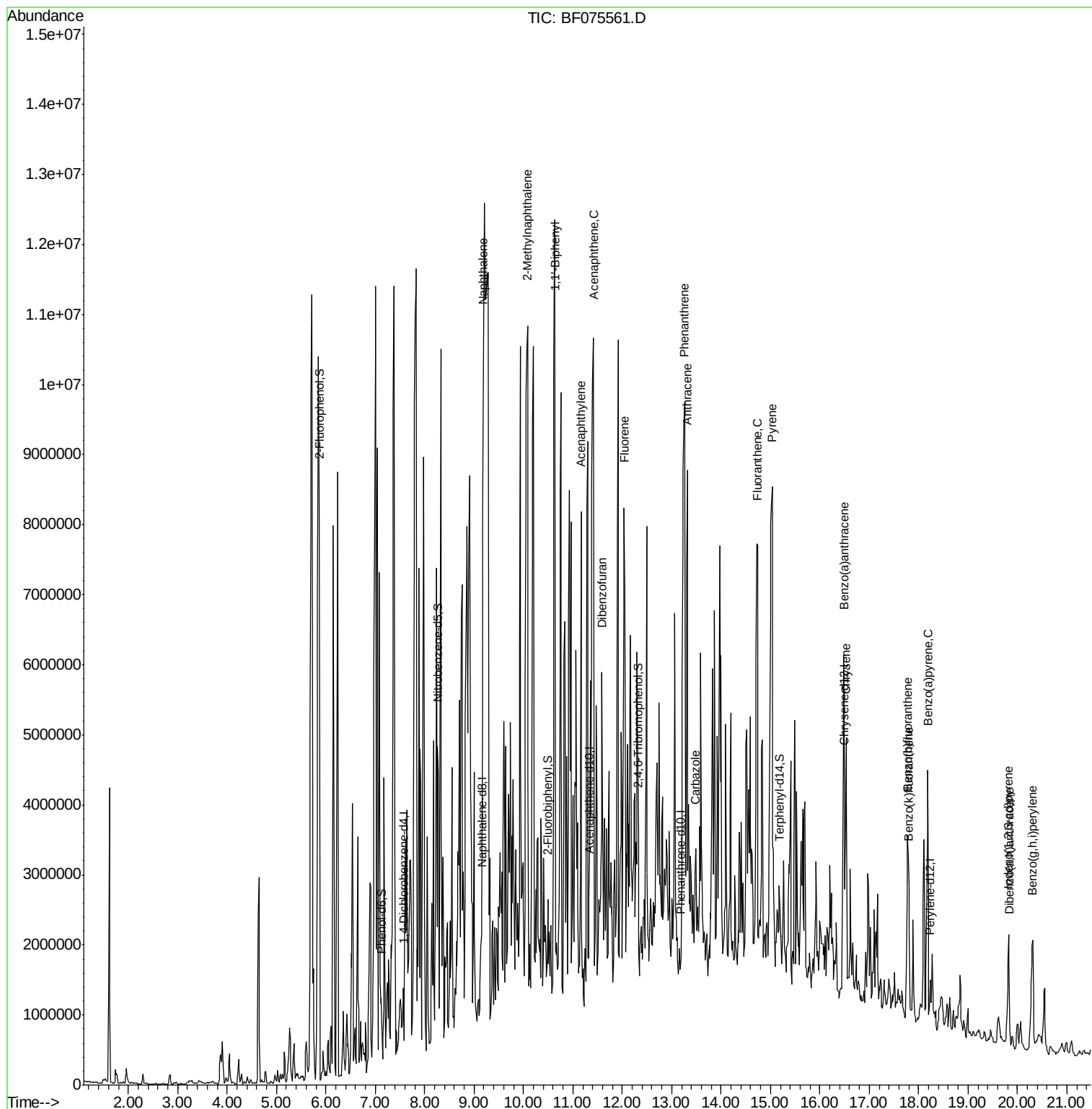
Data Path : Z:\HPCHEM1\BNA_F\DATA\BF111414\
Data File : BF075561.D
Acq On : 16 Nov 2014 00:44
Operator : TP / JJ
Sample : F4706-02
Misc :
ALS Vial : 59 Sample Multiplier: 1

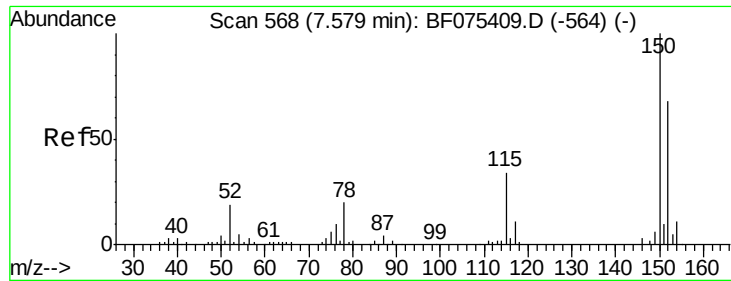
Instrument :
BNA_F
ClientSampleId :
SB-05(25-27)-111014

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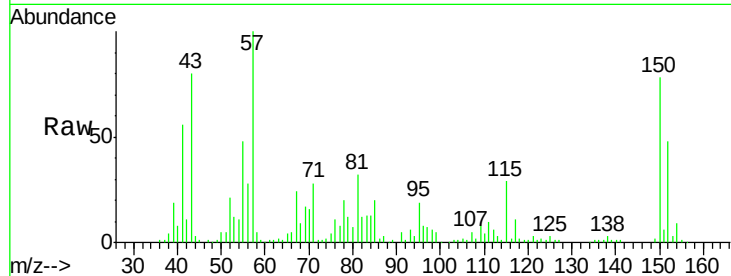
Quant Time: Nov 17 14:23:01 2014
Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF111214.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Nov 17 04:16:34 2014
Response via : Initial Calibration





#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.57 min Scan# 567
 Delta R.T. 0.01 min
 Lab File: BF075561.D
 Acq: 16 Nov 2014 00:44

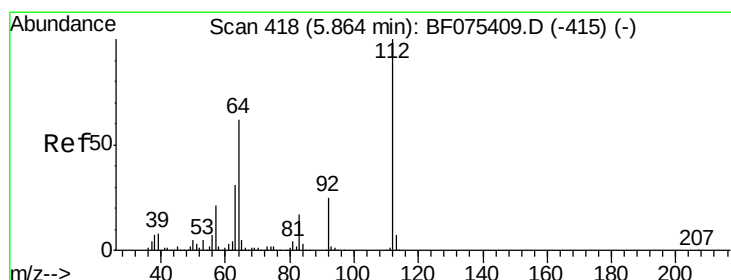
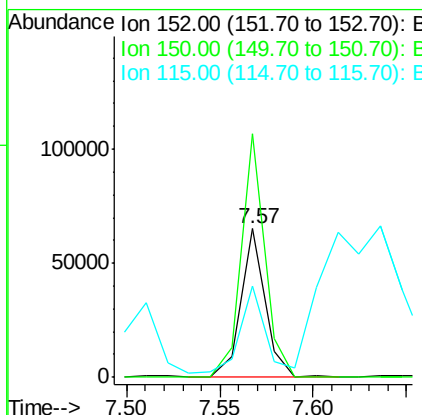
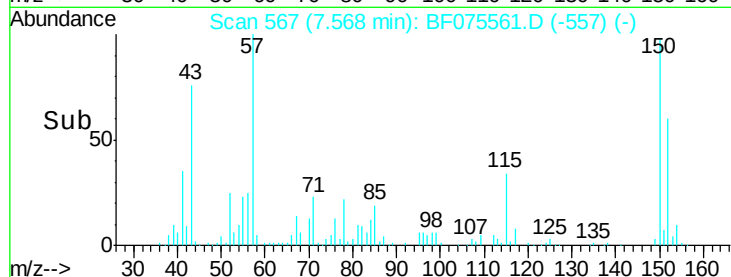
Instrument :
 BNA_F
 ClientSampleId :
 SB-05(25-27)-111014



Tgt Ion	Ratio	Lower	Upper
152	100		
150	163.6	127.2	190.8
115	61.4	57.1	85.7

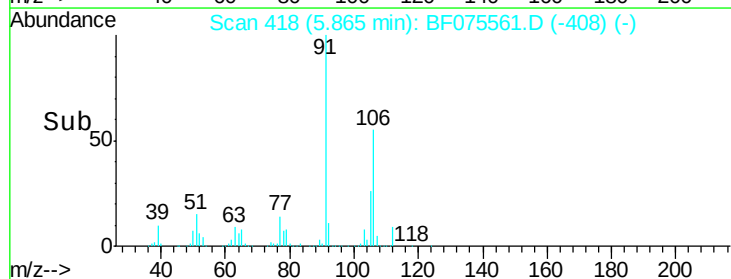
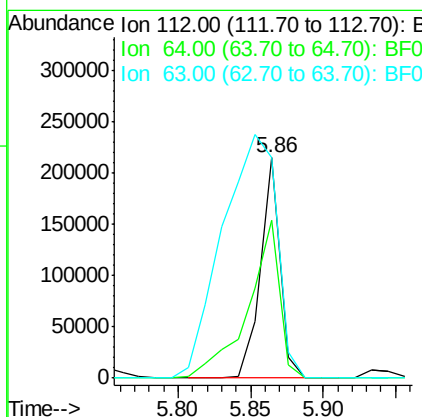
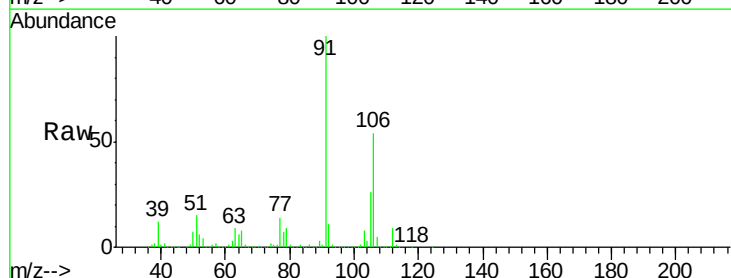
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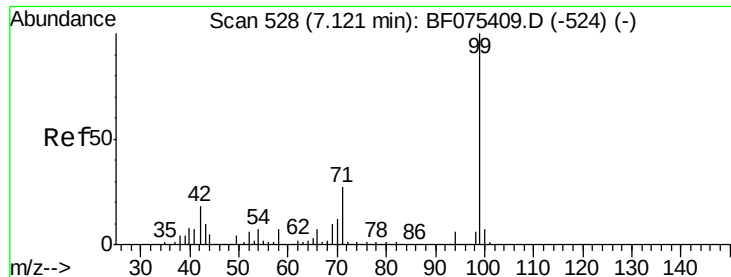
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#5
 2-Fluorophenol
 Concen: 60.27 ng
 RT: 5.86 min Scan# 418
 Delta R.T. 0.01 min
 Lab File: BF075561.D
 Acq: 16 Nov 2014 00:44

Tgt Ion	Ratio	Lower	Upper
112	100		
64	71.7	45.8	68.6#
63	100.4	22.7	34.1#





#7

Phenol-d6

Concen: 106.10 ng

RT: 7.12 min Scan# 528

Delta R.T. 0.01 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

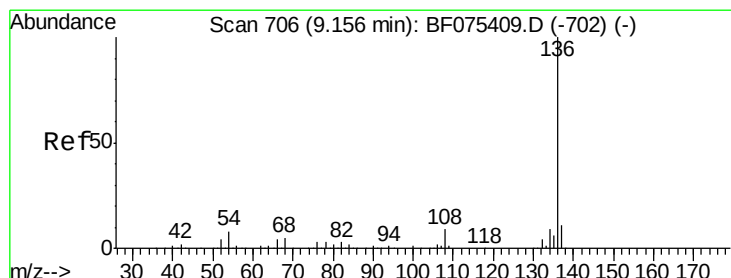
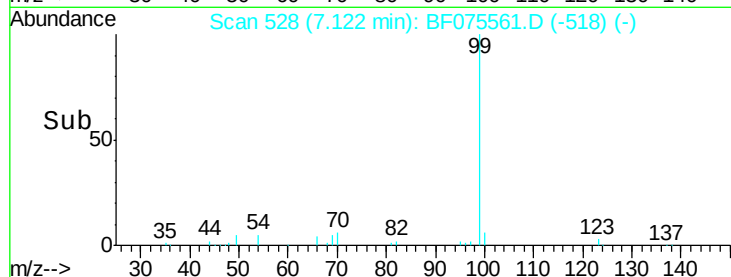
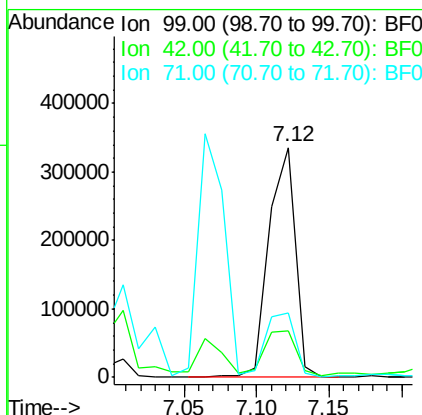
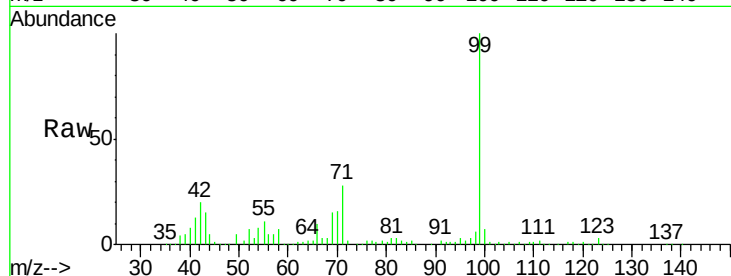
ClientSampleId :

SB-05(25-27)-111014

Tgt Ion	Ratio	Resp	Lower	Upper
99	100	427403		
42	20.0	19.8	29.6	
71	28.0	25.5	38.3	

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#21

Naphthalene-d8

Concen: 20.00 ng m

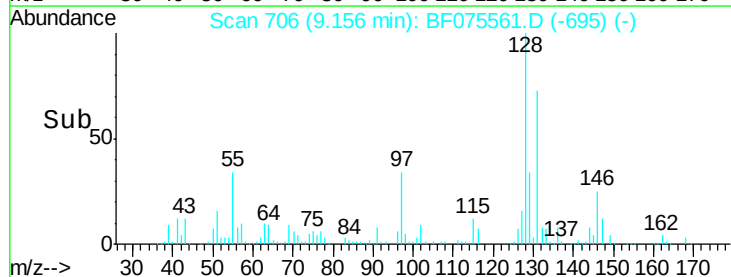
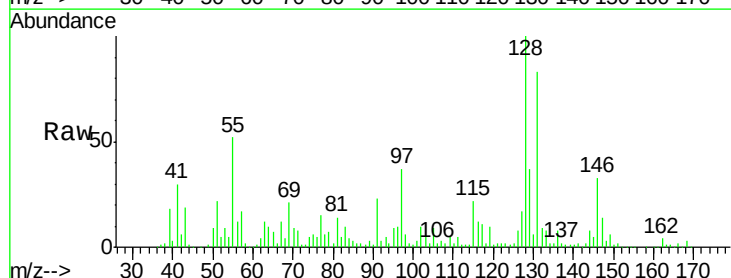
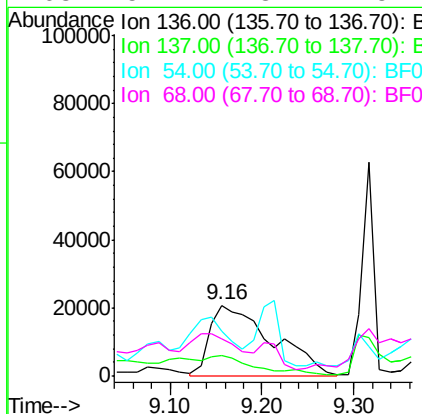
RT: 9.16 min Scan# 706

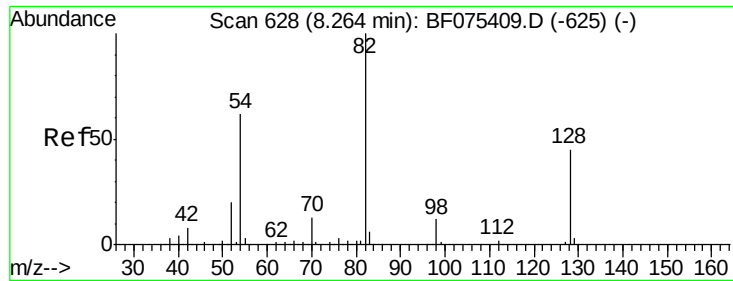
Delta R.T. 0.02 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	98057		
137	28.8	8.2	12.4#	
54	63.1	6.2	9.4#	
68	52.7	3.4	5.2#	





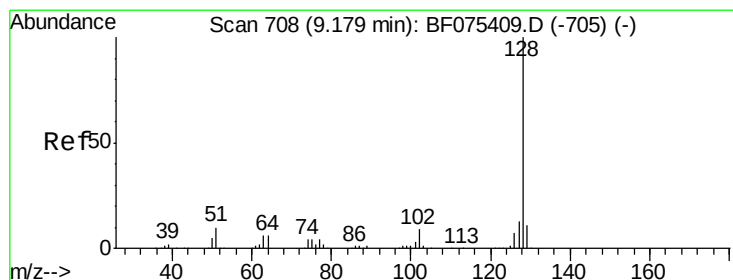
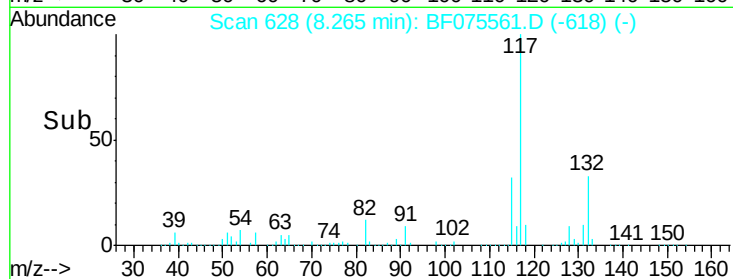
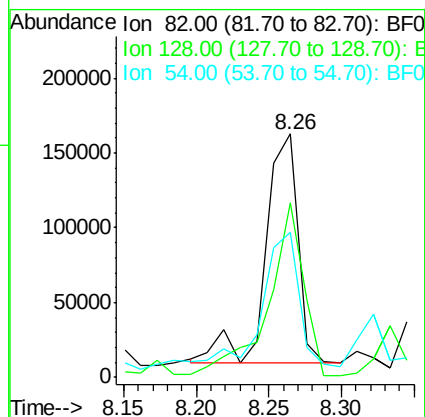
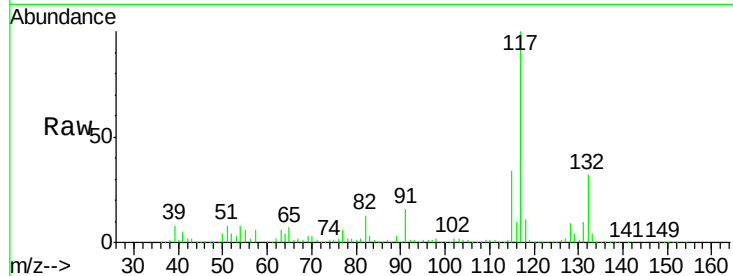
#23
Nitrobenzene-d5
Concen: 175.82 ng
RT: 8.26 min Scan# 628
Delta R.T. 0.01 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Instrument :
BNA_F
ClientSampleId :
SB-05(25-27)-111014

Tgt Ion	Ratio	Lower	Upper
82	100		
128	71.8	37.8	56.6#
54	59.6	49.8	74.8

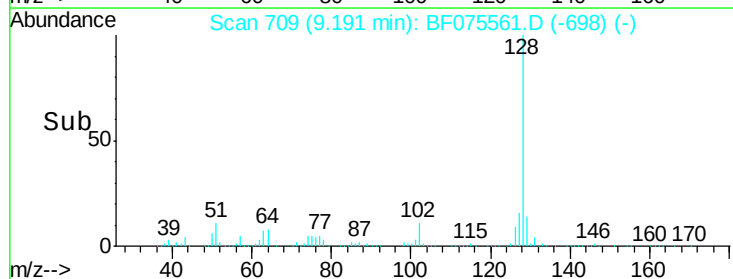
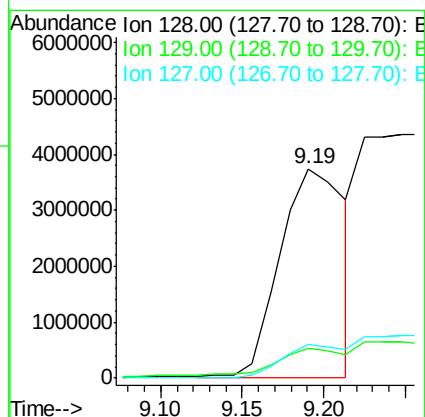
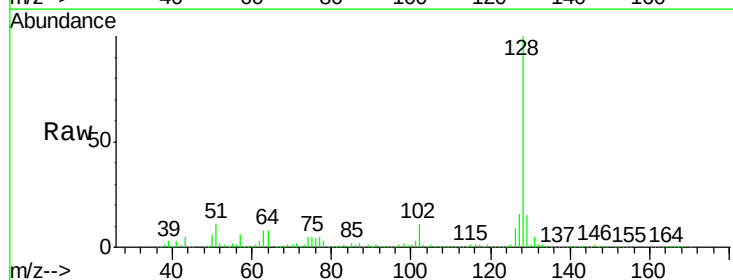
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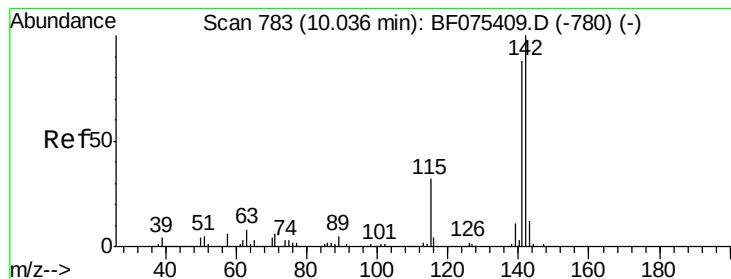
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#31
Naphthalene
Concen: 2406.22 ng m
RT: 9.19 min Scan# 709
Delta R.T. 0.02 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Tgt Ion	Ratio	Lower	Upper
128	100		
129	14.5	9.0	13.4#
127	16.2	10.2	15.4#





#37

2-Methylnaphthalene

Concen: 3077.26 ng

RT: 10.08 min Scan# 787

Delta R.T. 0.06 min

Lab File: BF075561.D

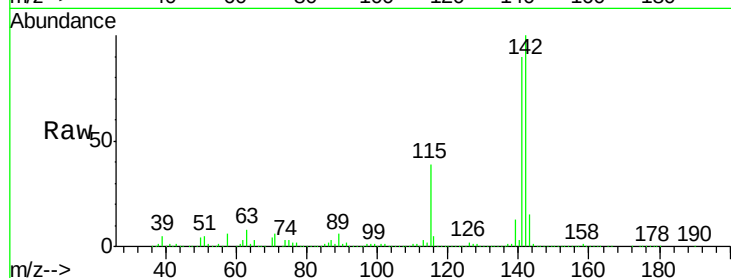
Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

ClientSampleId :

SB-05(25-27)-111014



Tgt Ion:142 Resp: 9178161

Ion Ratio Lower Upper

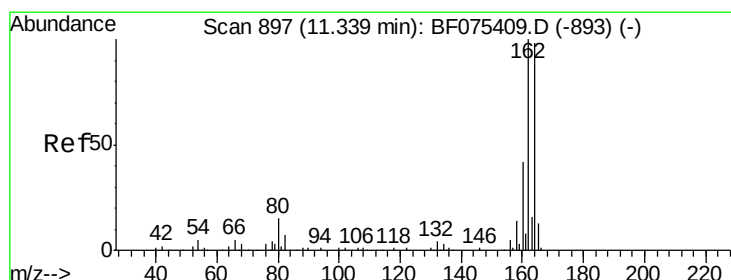
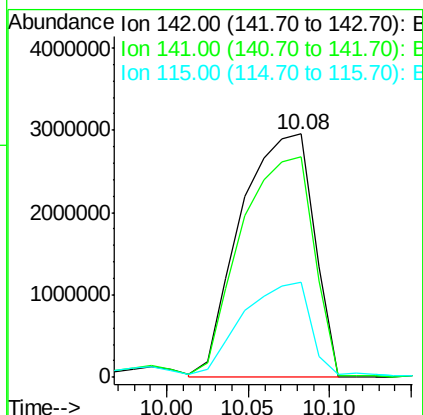
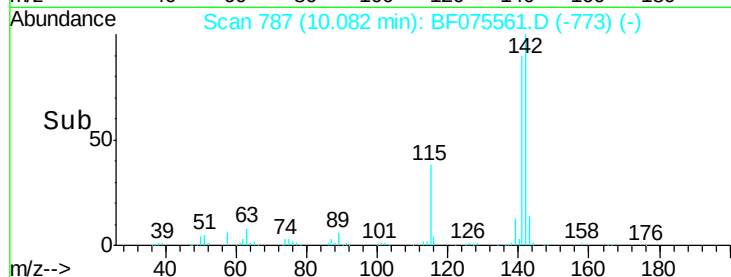
142 100

141 90.4 69.9 104.9

115 39.1 27.6 41.4

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#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 11.33 min Scan# 896

Delta R.T. 0.01 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

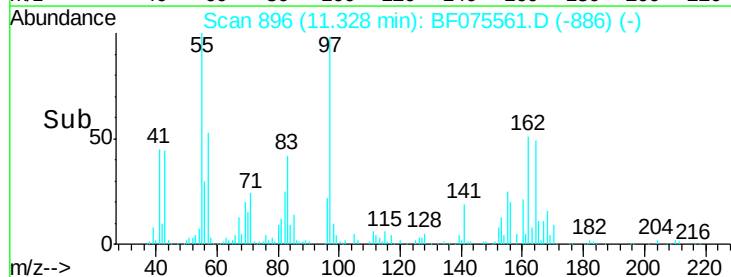
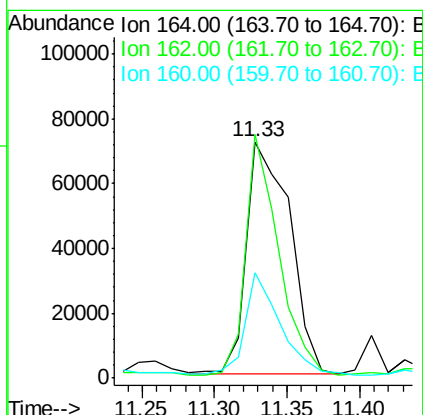
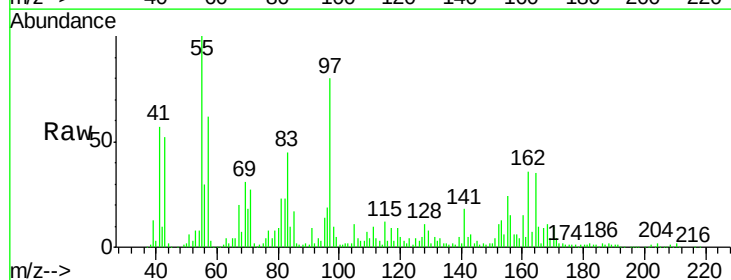
Tgt Ion:164 Resp: 147919

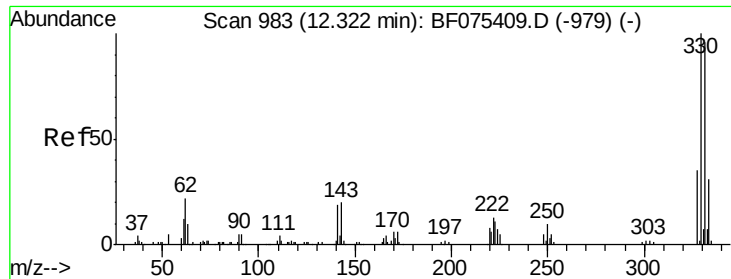
Ion Ratio Lower Upper

164 100

162 103.1 79.1 118.7

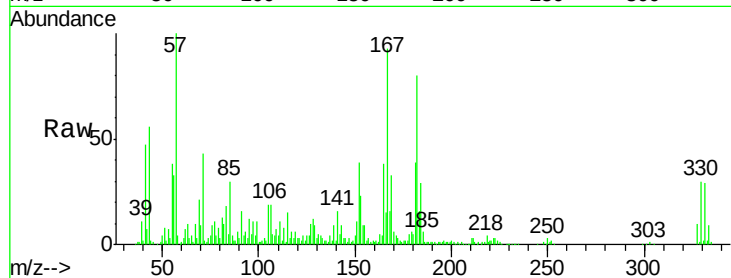
160 44.4 34.6 51.8





#41
 2,4,6-Tribromophenol
 Concen: 49.73 ng
 RT: 12.32 min Scan# 983
 Delta R.T. 0.01 min
 Lab File: BF075561.D
 Acq: 16 Nov 2014 00:44

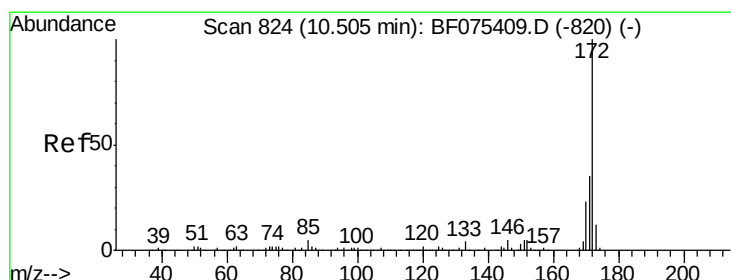
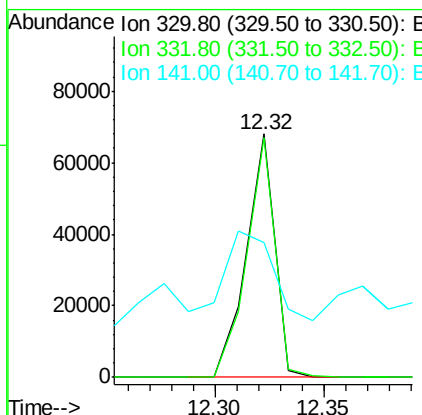
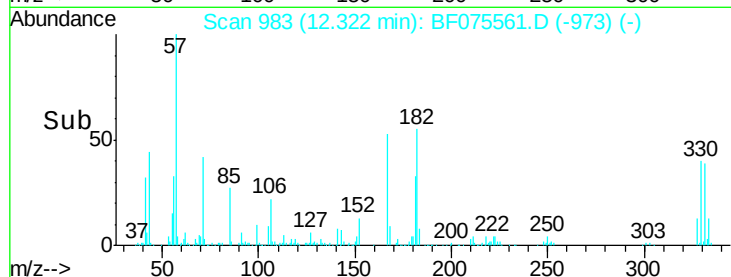
Instrument :
 BNA_F
 ClientSampleId :
 SB-05(25-27)-111014



Tgt Ion	Ratio	Lower	Upper
330	100		
332	98.1	74.5	111.7
141	92.9	30.7	46.1#

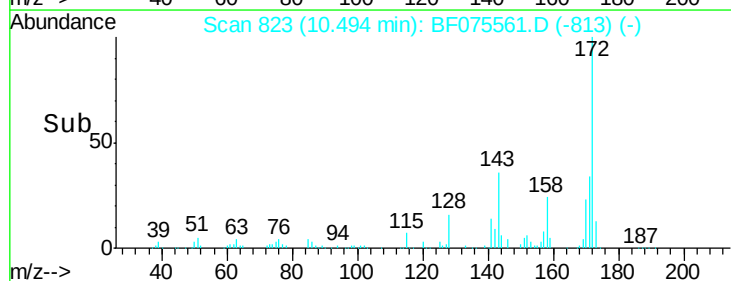
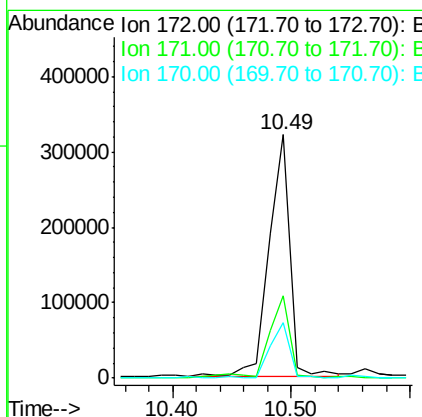
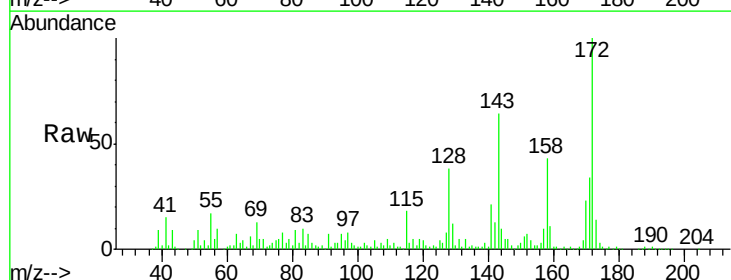
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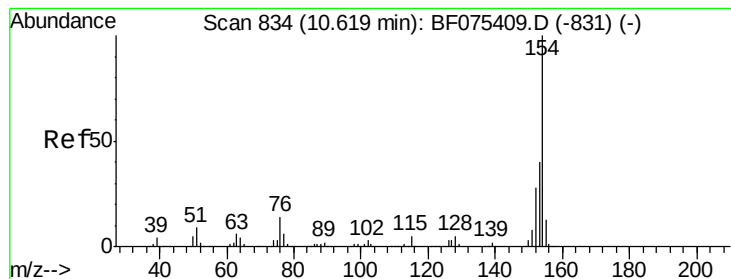
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#44
 2-Fluorobiphenyl
 Concen: 47.38 ng
 RT: 10.49 min Scan# 823
 Delta R.T. 0.01 min
 Lab File: BF075561.D
 Acq: 16 Nov 2014 00:44

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.7	27.3	40.9
170	22.6	18.4	27.6





#45

1,1'-Biphenyl

Concen: 310.19 ng

RT: 10.63 min Scan# 835

Delta R.T. 0.02 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

ClientSampleId :

SB-05(25-27)-111014

Tgt Ion:154 Resp: 3095001

Ion Ratio Lower Upper

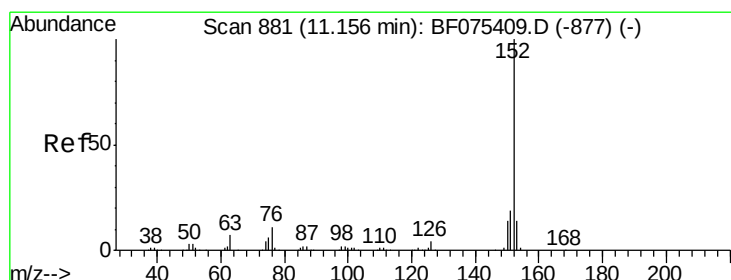
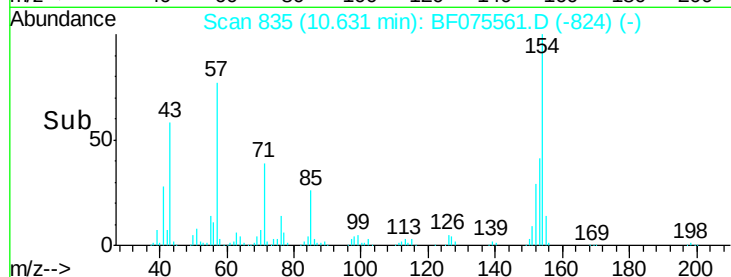
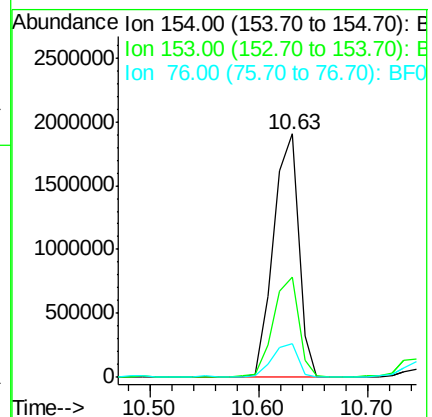
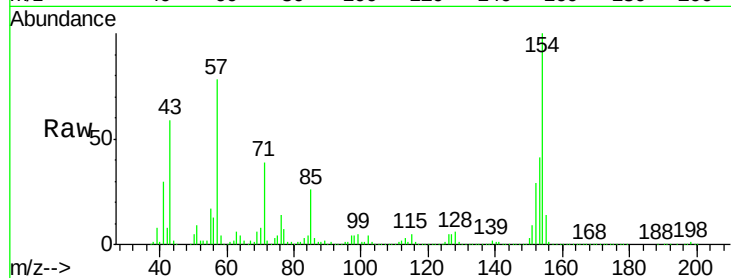
154 100

153 41.4 19.3 59.3

76 13.9 0.0 35.0

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#48

Acenaphthylene

Concen: 179.83 ng

RT: 11.17 min Scan# 882

Delta R.T. 0.02 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

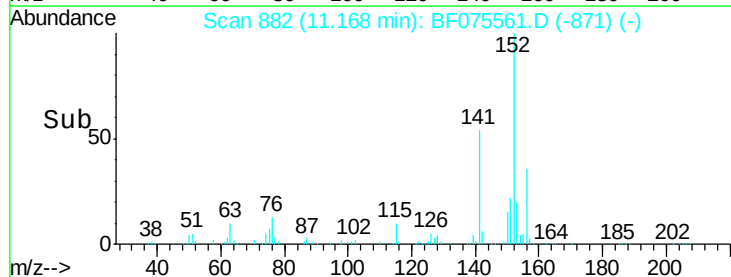
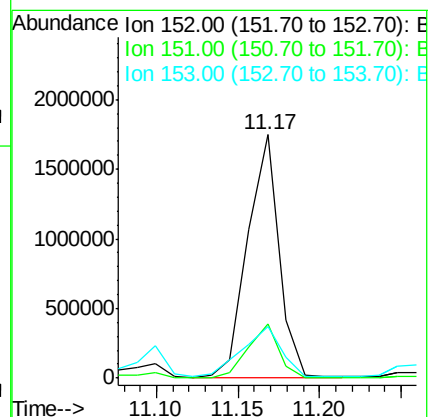
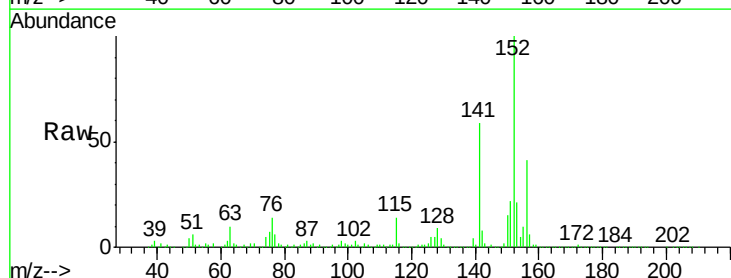
Tgt Ion:152 Resp: 2313120

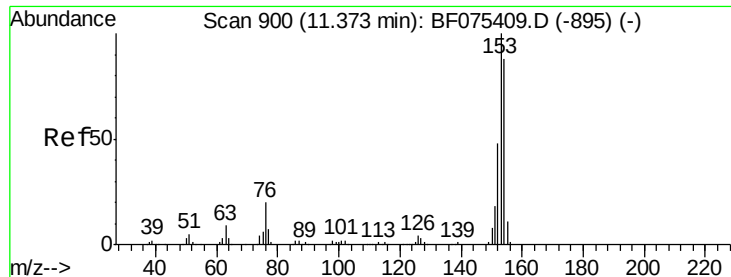
Ion Ratio Lower Upper

152 100

151 22.1 15.4 23.2

153 21.0 10.0 15.0#





#51

Acenaphthene

Concen: 844.38 ng

RT: 11.42 min Scan# 904

Delta R.T. 0.06 min

Lab File: BF075561.D

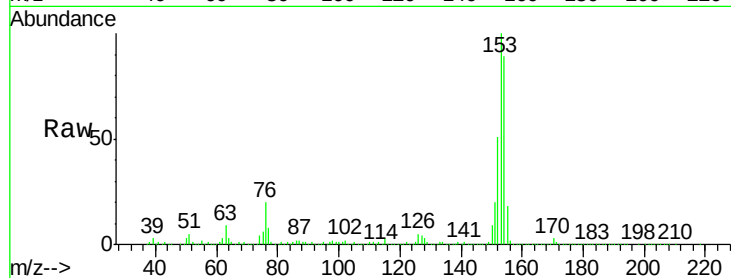
Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

ClientSampleId :

SB-05(25-27)-111014



Tgt Ion:154 Resp: 6556249

Ion Ratio Lower Upper

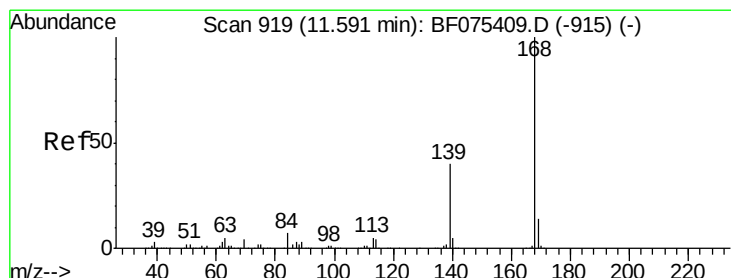
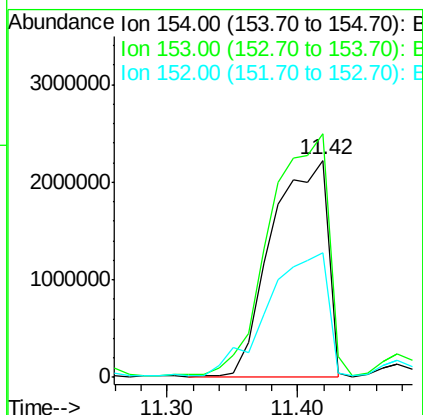
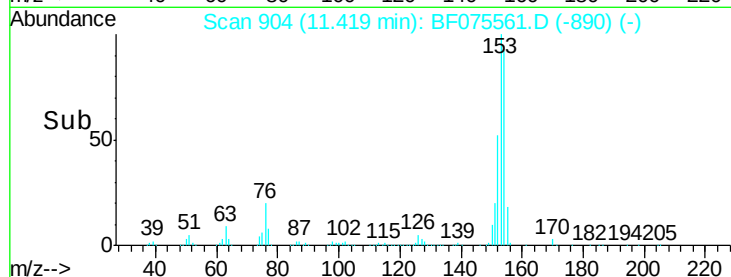
154 100

153 112.0 91.2 136.8

152 57.4 43.4 65.0

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#54

Dibenzofuran

Concen: 59.40 ng

RT: 11.59 min Scan# 919

Delta R.T. 0.01 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

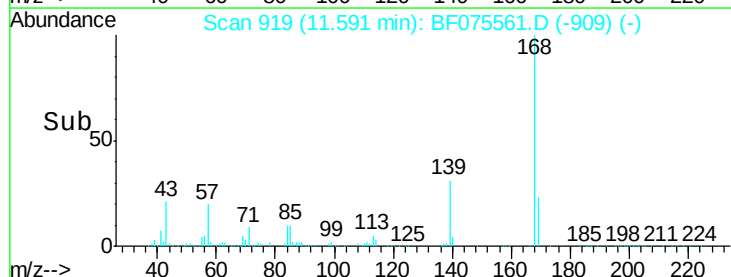
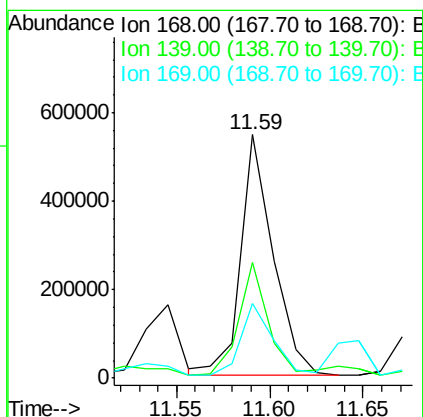
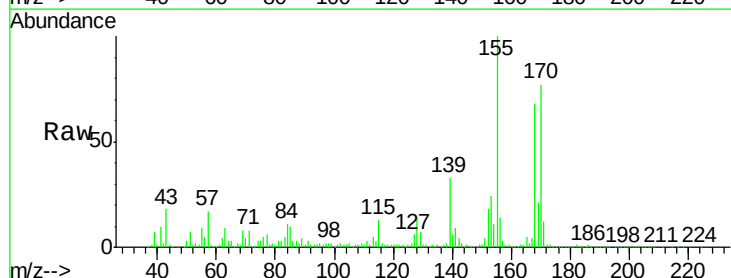
Tgt Ion:168 Resp: 659140

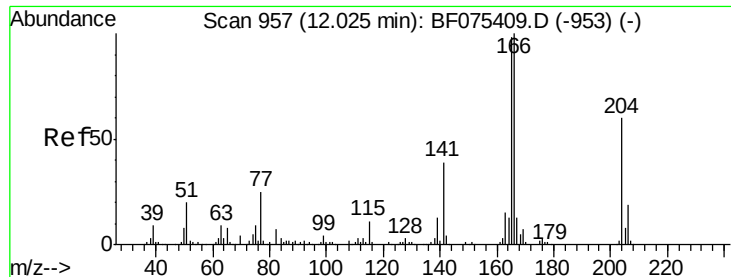
Ion Ratio Lower Upper

168 100

139 47.7 33.0 49.4

169 30.4 10.8 16.2#





#57

Fluorene

Concen: 464.10 ng

RT: 12.04 min Scan# 958

Delta R.T. 0.03 min

Lab File: BF075561.D

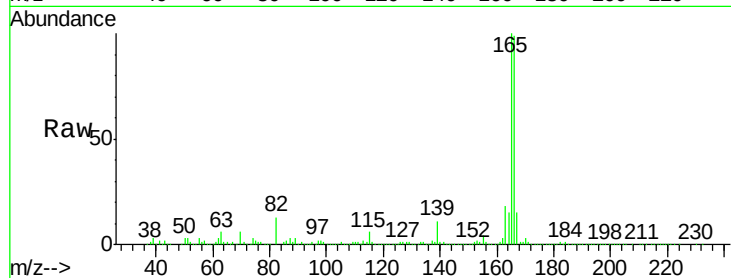
Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

ClientSampleId :

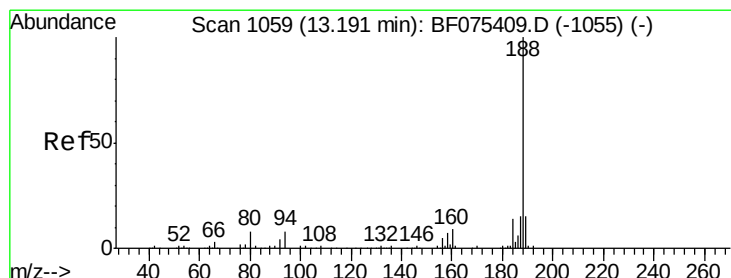
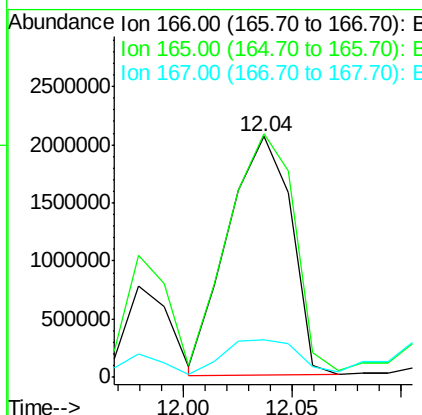
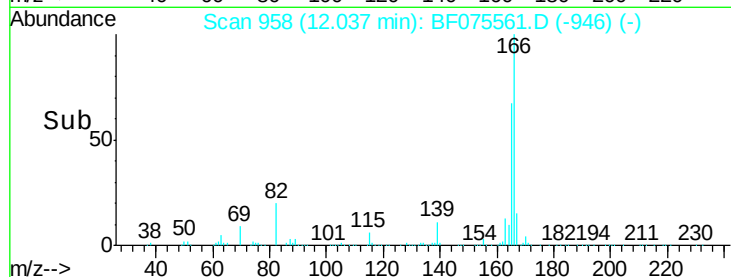
SB-05(25-27)-111014



Tgt Ion:	166	Resp:	4164912
Ion	Ratio	Lower	Upper
166	100		
165	101.2	78.8	118.2
167	15.6	10.6	15.8

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#63

Phenanthrene-d10

Concen: 20.00 ng

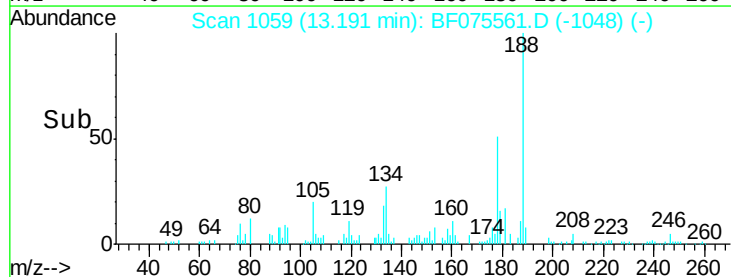
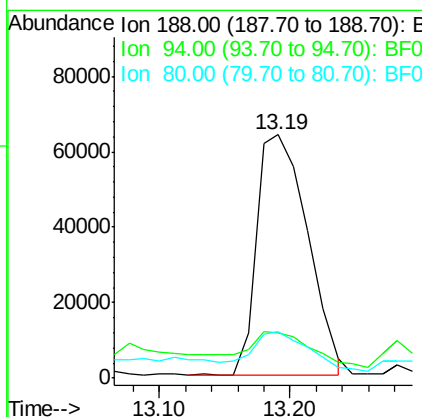
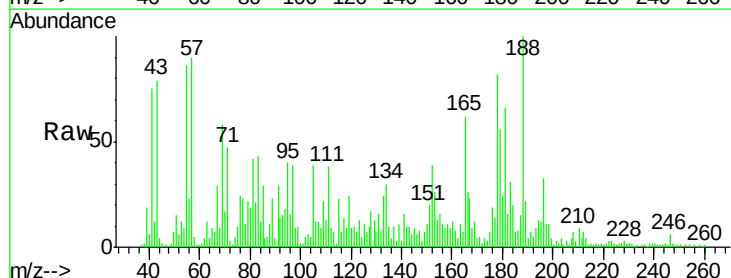
RT: 13.19 min Scan# 1059

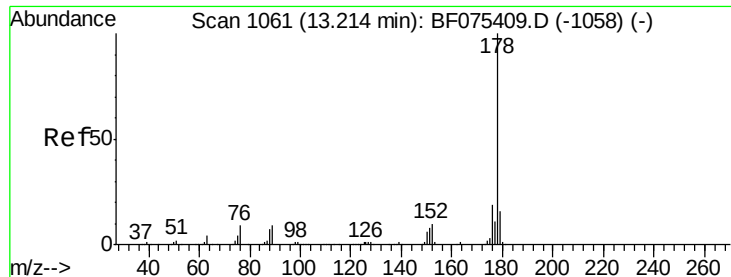
Delta R.T. 0.02 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

Tgt Ion:	188	Resp:	172738
Ion	Ratio	Lower	Upper
188	100		
94	18.4	7.8	11.6#
80	19.1	8.0	12.0#





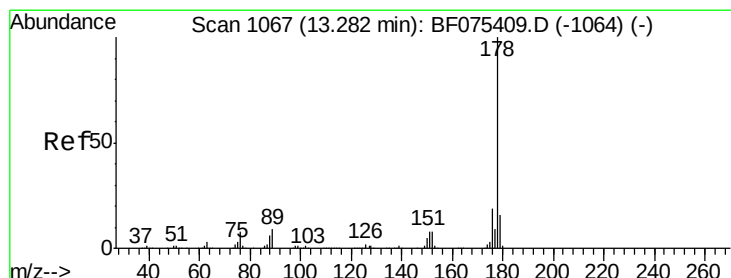
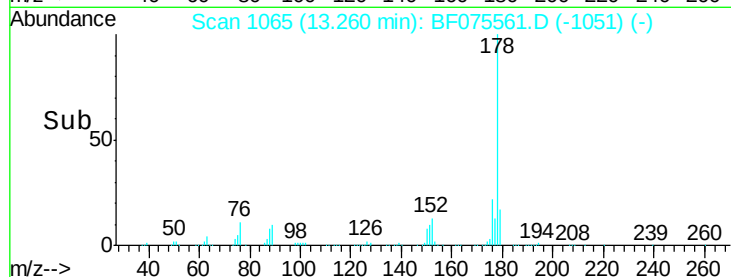
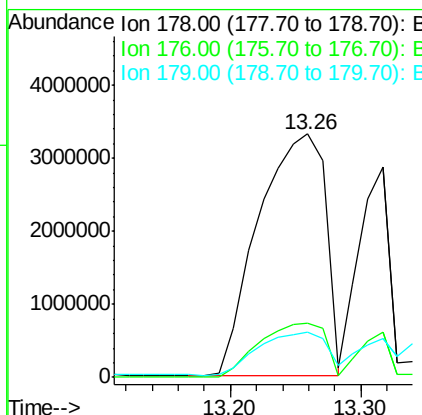
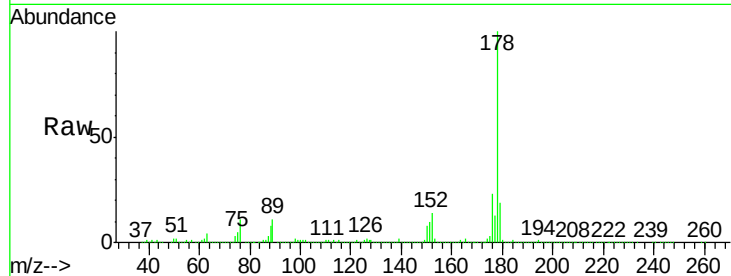
#70
Phenanthrene
Concen: 1297.36 ng
RT: 13.26 min Scan# 1065
Delta R.T. 0.06 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Instrument :
BNA_F
ClientSampleId :
SB-05(25-27)-111014

Tgt Ion:178 Resp:11794251
Ion Ratio Lower Upper
178 100
176 22.5 15.3 22.9
179 18.7 12.2 18.4#

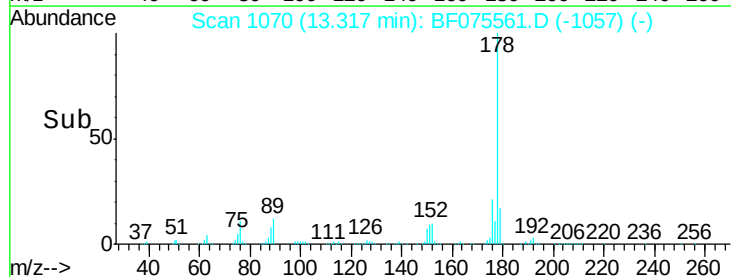
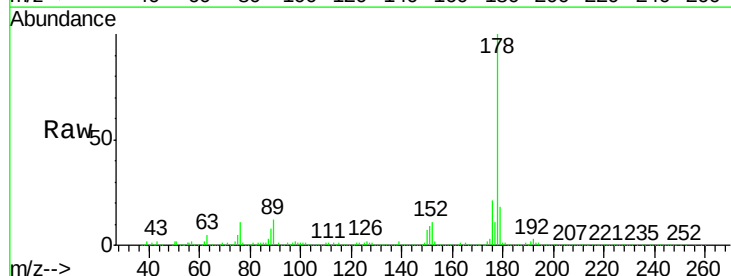
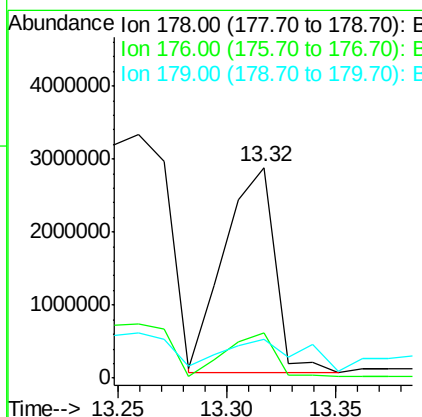
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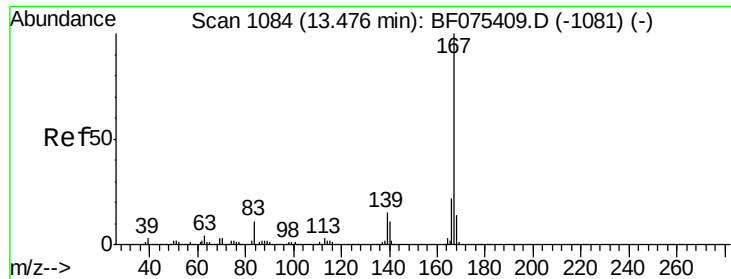
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#71
Anthracene
Concen: 482.56 ng
RT: 13.32 min Scan# 1070
Delta R.T. 0.05 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Tgt Ion:178 Resp: 4534598
Ion Ratio Lower Upper
178 100
176 21.5 15.1 22.7
179 18.3 12.2 18.2#





#72

Carbazole

Concen: 66.55 ng

RT: 13.49 min Scan# 1085

Delta R.T. 0.02 min

Lab File: BF075561.D

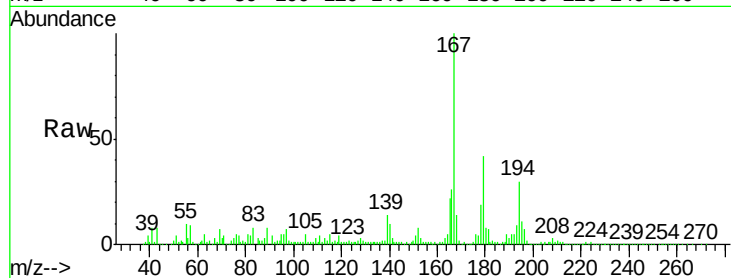
Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

ClientSampleId :

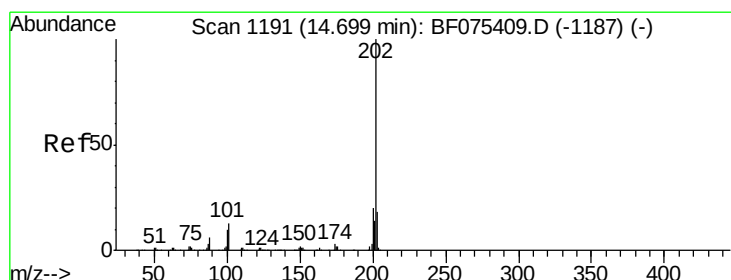
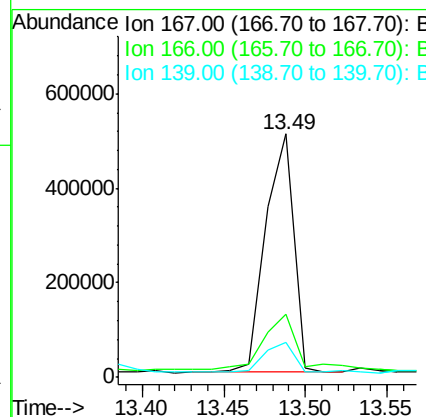
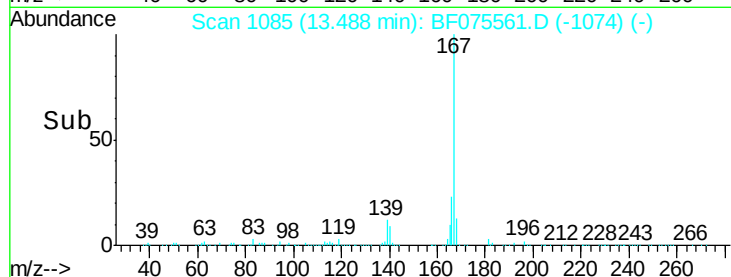
SB-05(25-27)-111014



Tgt Ion:	167	Resp:	611874
Ion Ratio	Lower	Upper	
167	100		
166	26.0	17.4	26.0
139	14.3	10.1	15.1

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#74

Fluoranthene

Concen: 571.88 ng

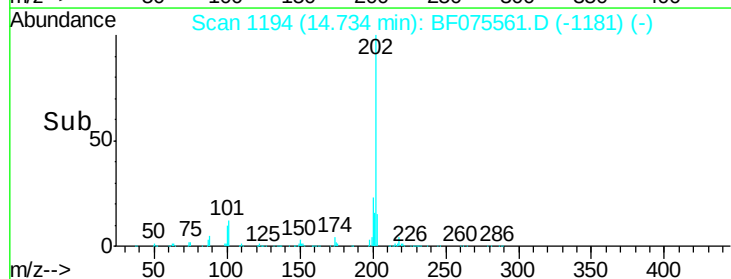
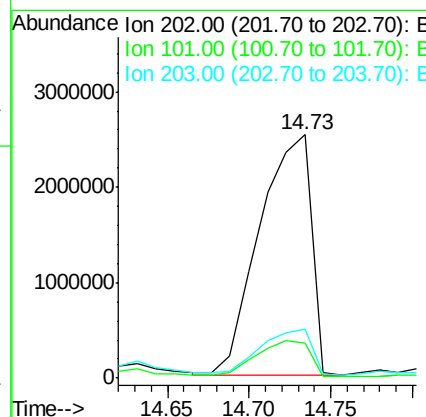
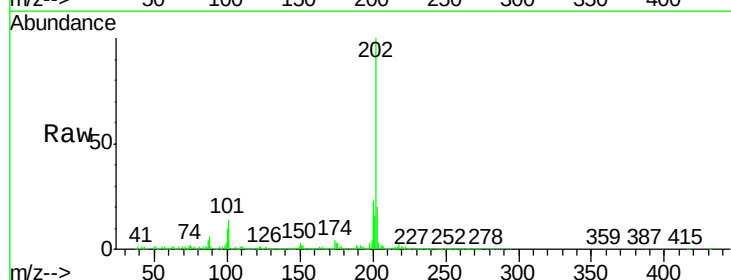
RT: 14.73 min Scan# 1194

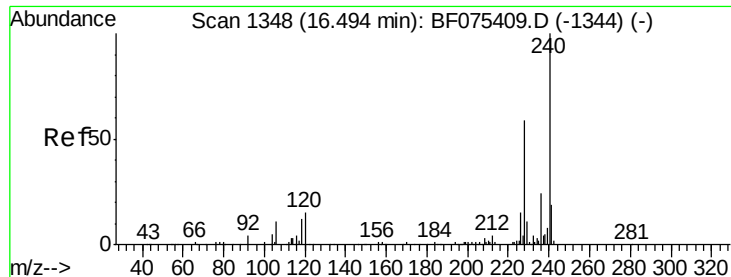
Delta R.T. 0.05 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

Tgt Ion:	202	Resp:	5568493
Ion Ratio	Lower	Upper	
202	100		
101	14.4	0.0	36.6
203	20.1	0.0	38.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.49 min Scan# 1348

Delta R.T. 0.01 min

Lab File: BF075561.D

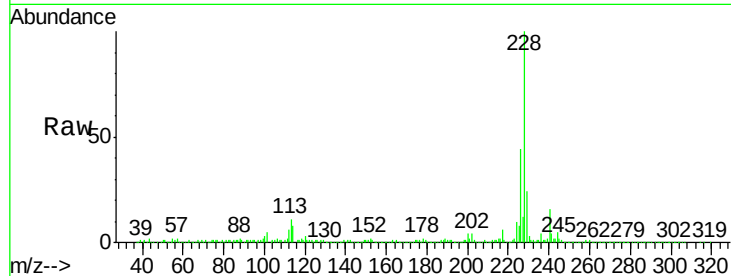
Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

ClientSampleId :

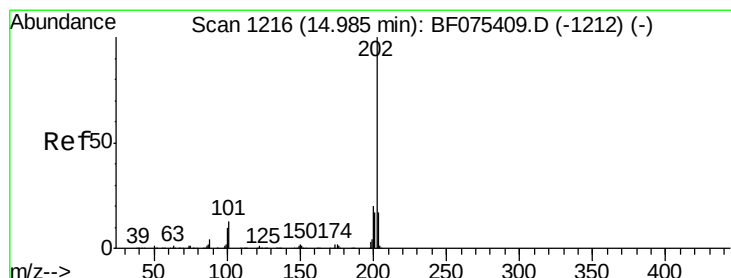
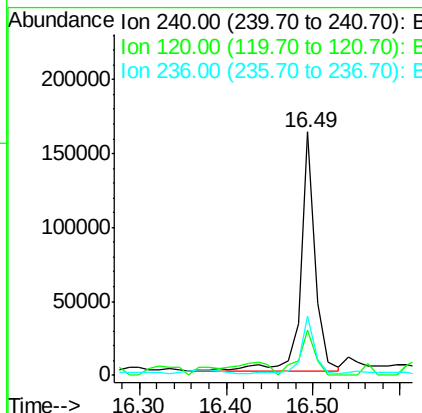
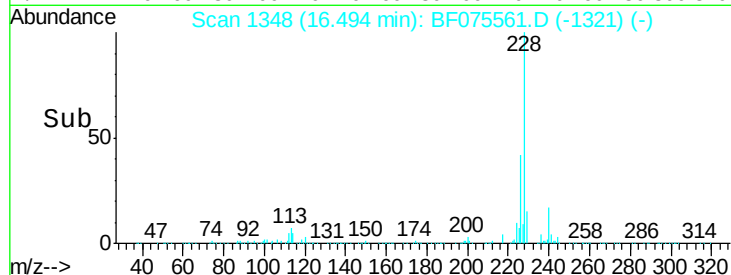
SB-05(25-27)-111014



Tgt Ion:	240	Resp:	186743
Ion Ratio	Lower	Upper	
240	100		
120	18.5	9.6	14.4#
236	24.1	18.9	28.3

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#77

Pyrene

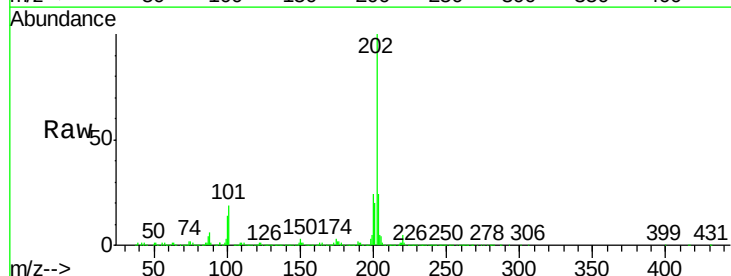
Concen: 787.35 ng m

RT: 15.03 min Scan# 1220

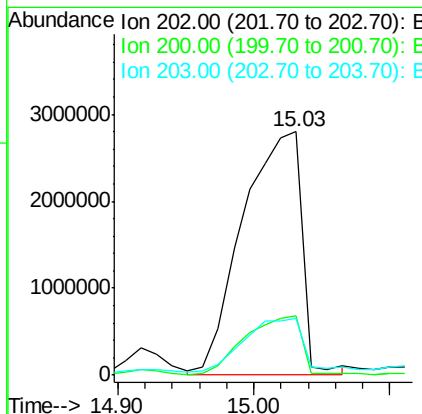
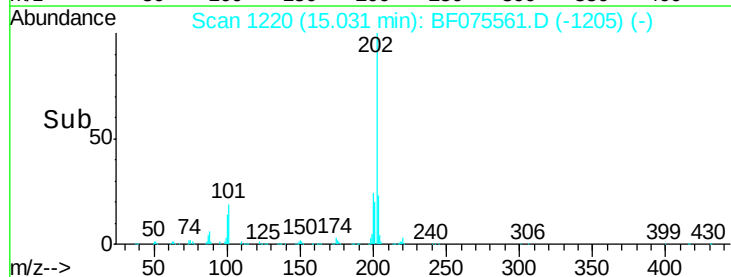
Delta R.T. 0.07 min

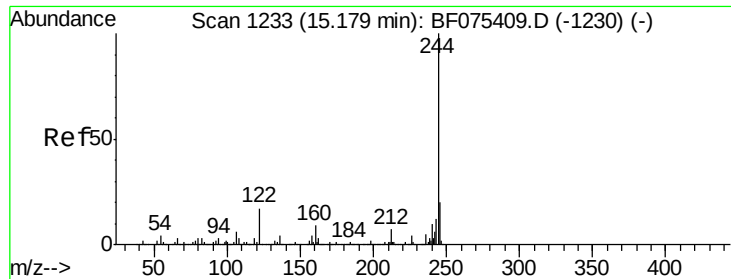
Lab File: BF075561.D

Acq: 16 Nov 2014 00:44



Tgt Ion:	202	Resp:	8547619
Ion Ratio	Lower	Upper	
202	100		
200	24.3	16.8	25.2
203	23.5	14.3	21.5#





#78

Terphenyl-d14

Concen: 50.73 ng

RT: 15.18 min Scan# 1233

Delta R.T. 0.01 min

Lab File: BF075561.D

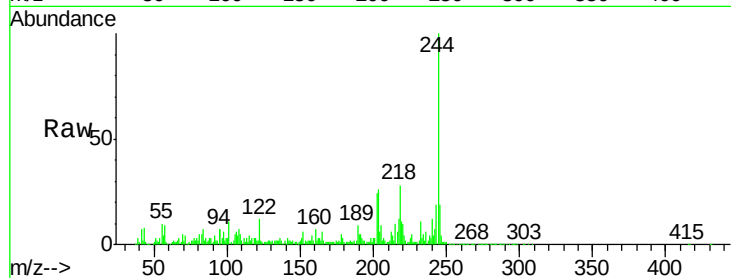
Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

ClientSampleId :

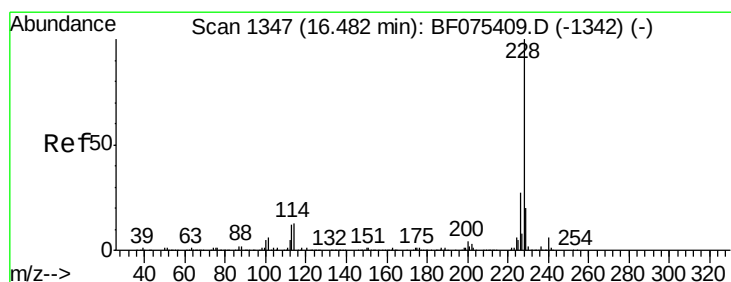
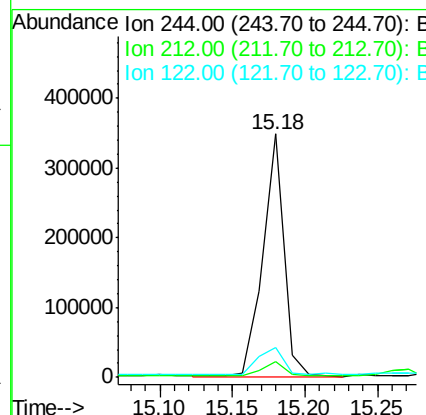
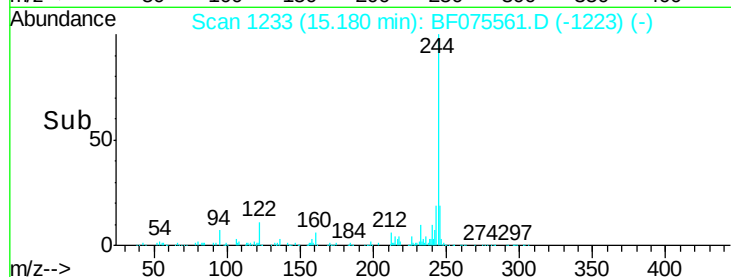
SB-05(25-27)-111014



Tgt Ion	Ratio	Resp	Lower	Upper
244	100	351869		
212	6.3	5.5	8.3	
122	12.0	9.7	14.5	

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#80

Benzo(a)anthracene

Concen: 299.17 ng

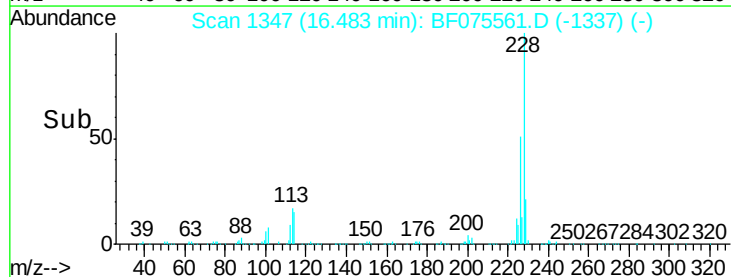
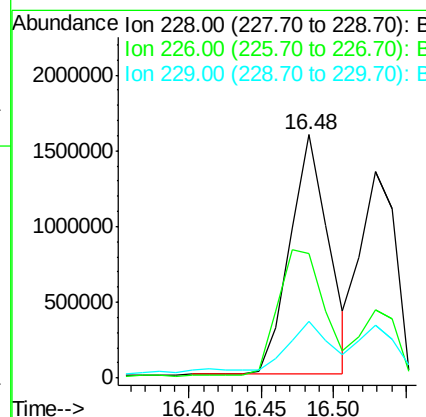
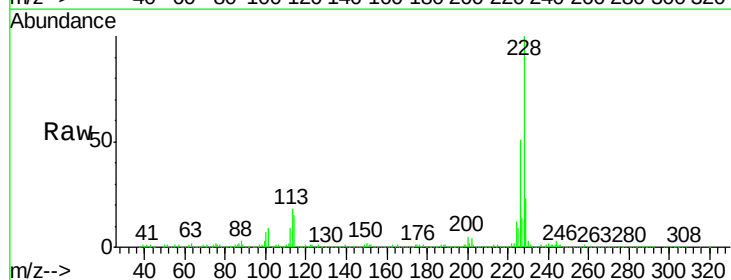
RT: 16.48 min Scan# 1347

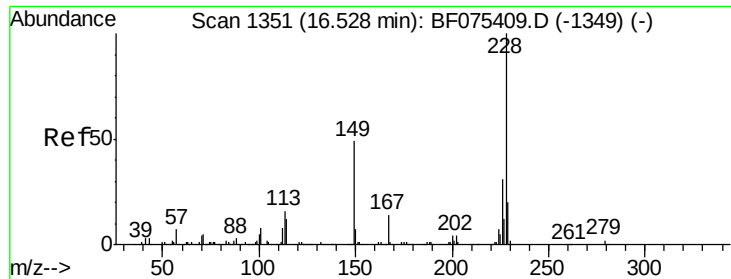
Delta R.T. 0.01 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

Tgt Ion	Ratio	Resp	Lower	Upper
228	100	2934953		
226	51.1	21.8	32.8#	
229	23.1	15.3	22.9#	





#82

Chrysene

Concen: 261.29 ng

RT: 16.53 min Scan# 1351

Delta R.T. 0.01 min

Lab File: BF075561.D

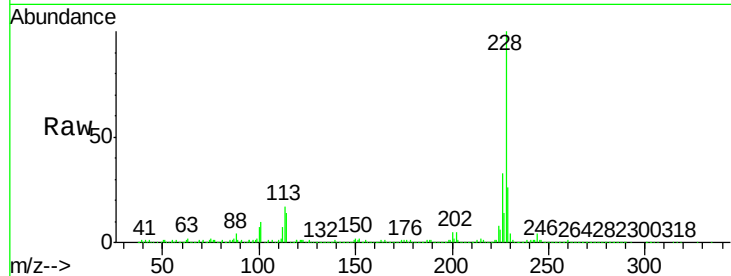
Acq: 16 Nov 2014 00:44

Instrument :

BNA_F

ClientSampleId :

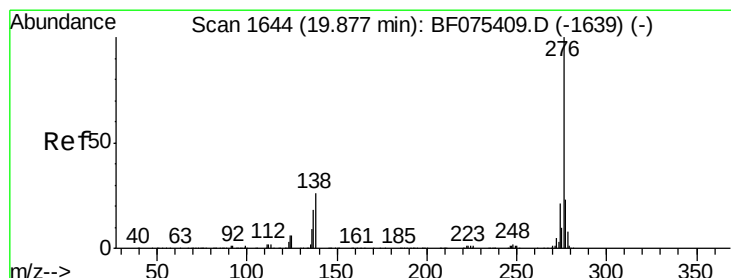
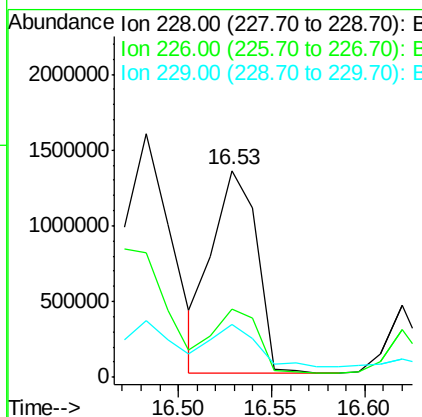
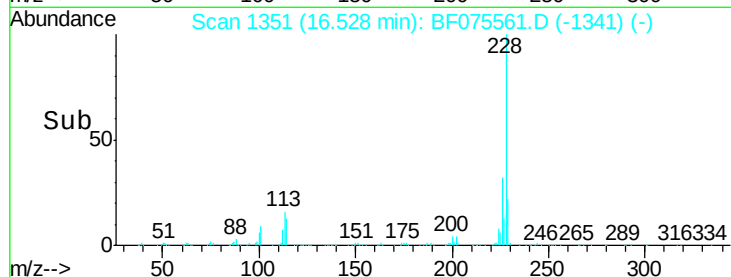
SB-05(25-27)-111014



Tgt Ion:	228	Resp:	2216991
Ion	Ratio	Lower	Upper
228	100		
226	33.1	23.8	35.6
229	25.6	15.8	23.6#

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#85

Indeno(1,2,3-cd)pyrene

Concen: 140.83 ng m

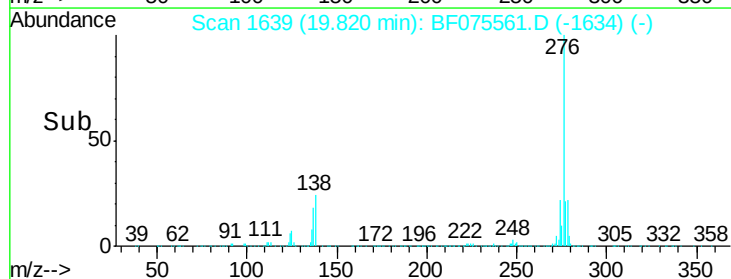
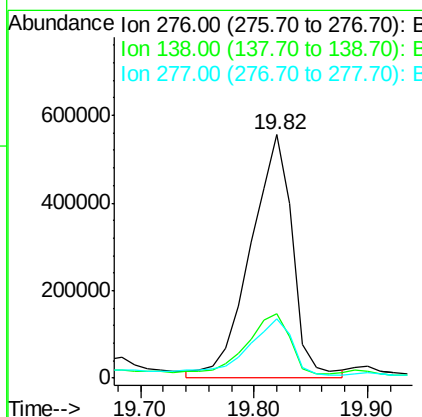
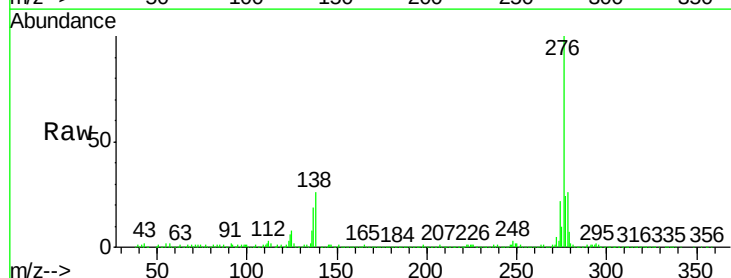
RT: 19.82 min Scan# 1639

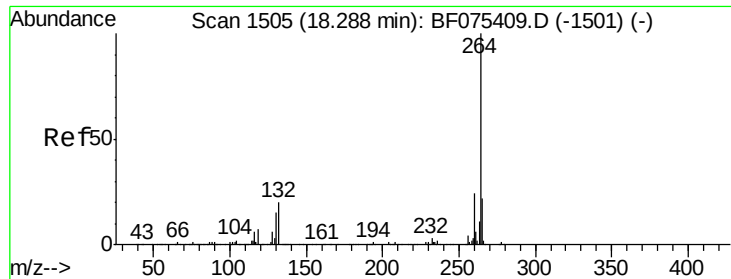
Delta R.T. -0.05 min

Lab File: BF075561.D

Acq: 16 Nov 2014 00:44

Tgt Ion:	276	Resp:	1449648
Ion	Ratio	Lower	Upper
276	100		
138	1.4	0.0	0.0#
277	0.7	0.0	0.0#





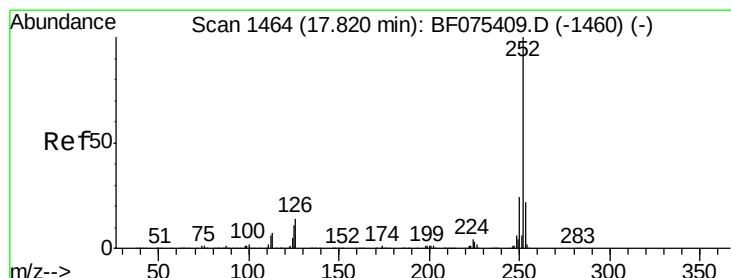
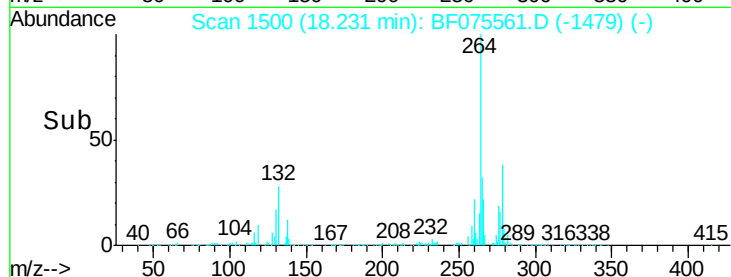
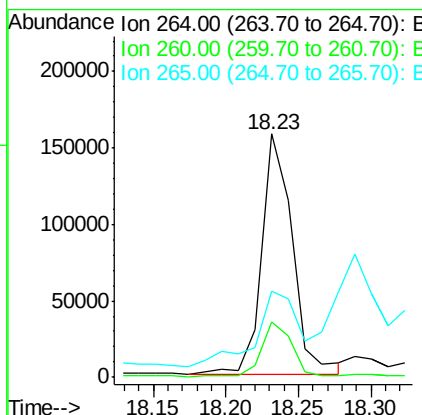
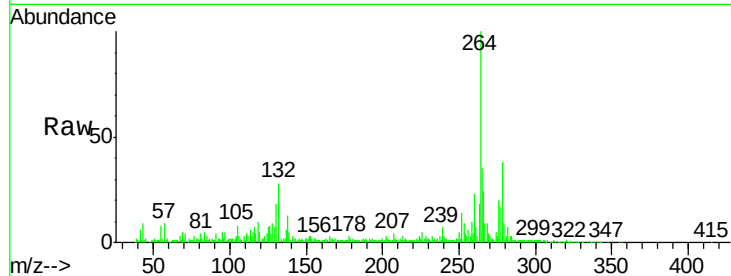
#86
Perylene-d12
Concen: 20.00 ng
RT: 18.23 min Scan# 1500
Delta R.T. -0.06 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Instrument :
BNA_F
ClientSampleId :
SB-05(25-27)-111014

Tgt Ion	Ratio	Lower	Upper
264	100		
260	22.7	17.9	26.9
265	35.2	16.3	24.5#

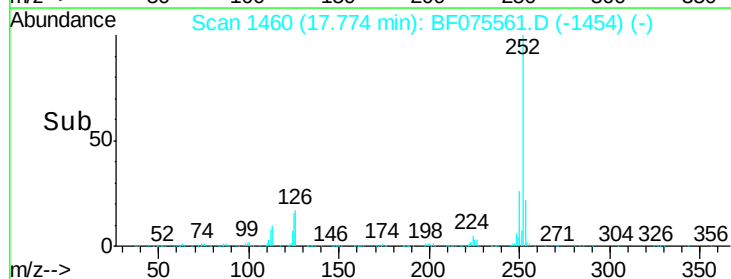
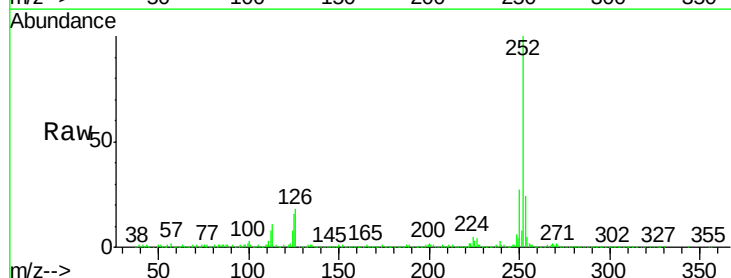
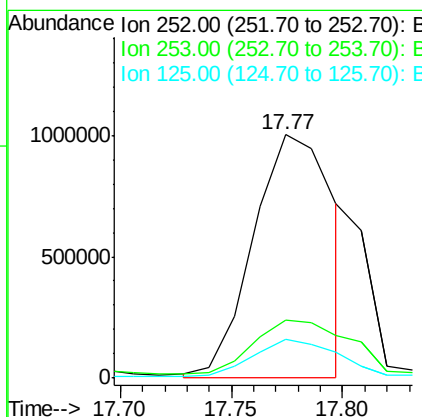
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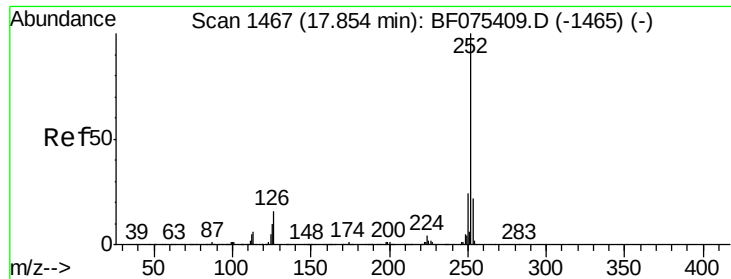
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#87
Benzo(b)fluoranthene
Concen: 201.95 ng m
RT: 17.77 min Scan# 1460
Delta R.T. -0.03 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.7	26.5
125	16.1	11.8	17.6





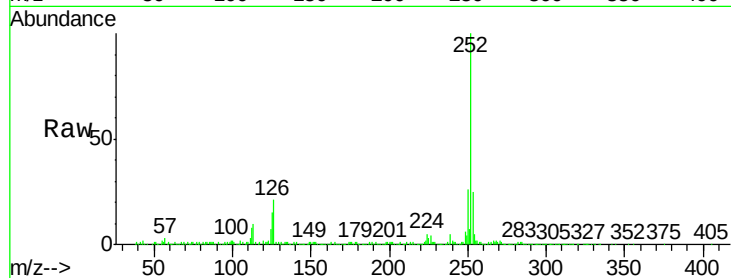
#88
Benzo(k)fluoranthene
Concen: 43.92 ng m
RT: 17.80 min Scan# 1462
Delta R.T. -0.05 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Instrument :
BNA_F
ClientSampleId :
SB-05(25-27)-111014

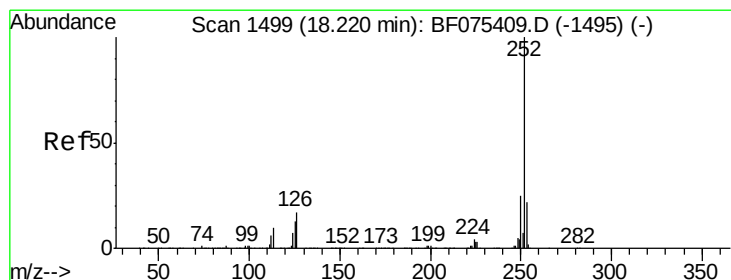
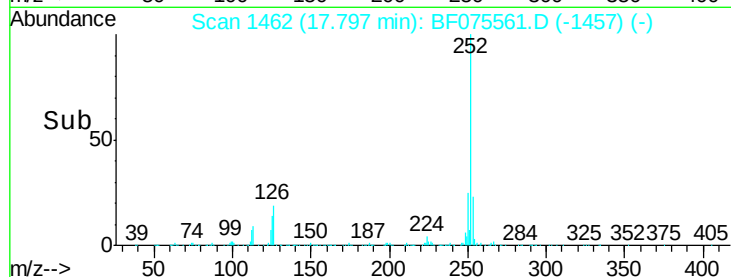
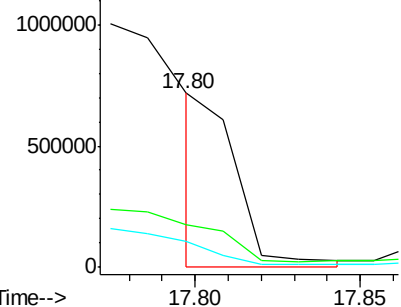
Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.6	18.1	27.1
125	14.7	11.6	17.4

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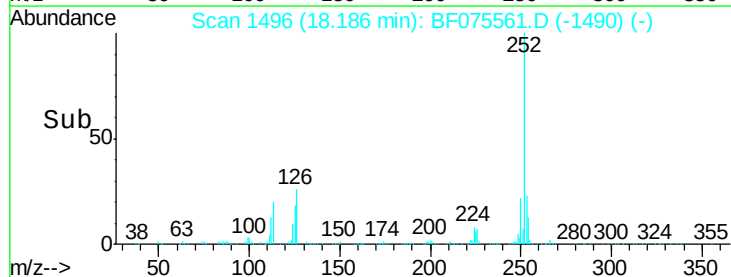
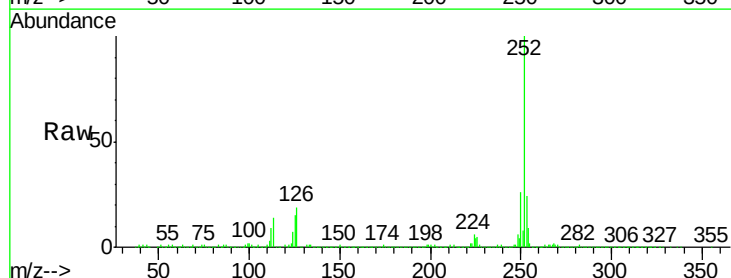
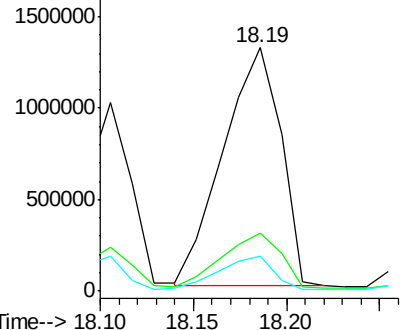
Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

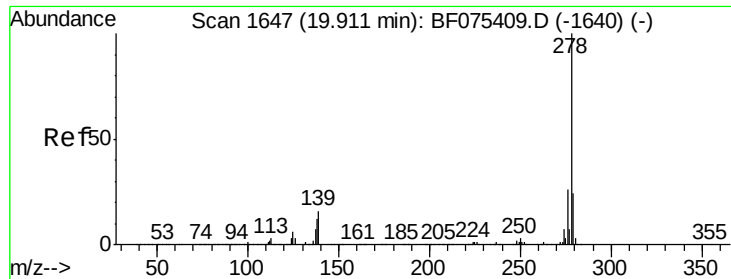


#89
Benzo(a)pyrene
Concen: 250.66 ng
RT: 18.19 min Scan# 1496
Delta R.T. -0.03 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.1	25.7
125	14.6	12.2	18.4

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





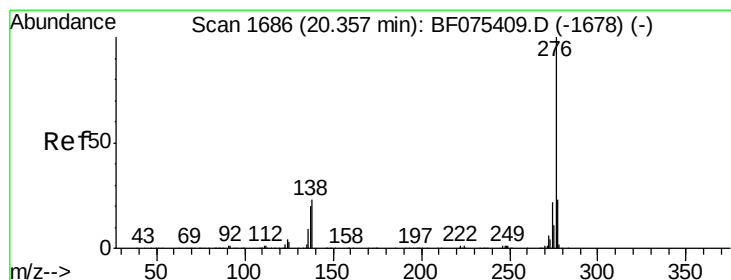
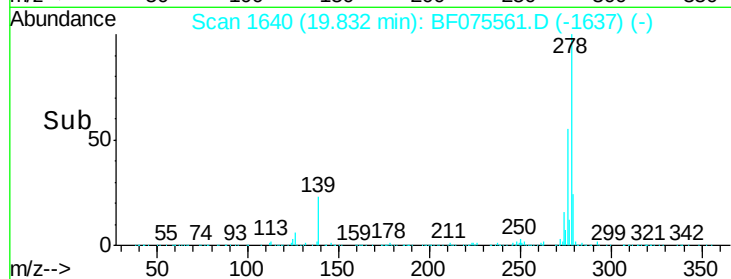
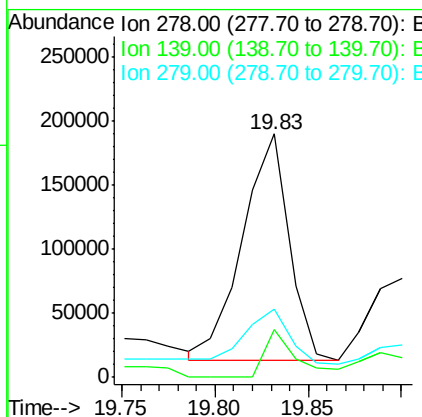
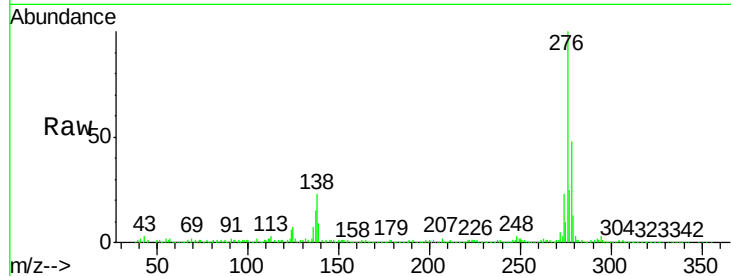
#90
Dibenzo(a,h)anthracene
Concen: 26.11 ng
RT: 19.83 min Scan# 1640
Delta R.T. -0.07 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Instrument :
BNA_F
ClientSampleId :
SB-05(25-27)-111014

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.6	13.6	20.4
279	28.0	19.4	29.0

Manual Integrations
APPROVED

mohammad
11/17/2014 7:38:21 PM



#91
Benzo(g,h,i)perylene
Concen: 165.08 ng
RT: 20.31 min Scan# 1682
Delta R.T. -0.03 min
Lab File: BF075561.D
Acq: 16 Nov 2014 00:44

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.8	26.8
138	26.2	22.8	34.2

