

Data Path : Z:\HPCHEM1\BNA F\DATA\BF012617\
 Data File : BF092520.D
 Acq On : 26 Jan 2017 12:43
 Operator : SJ/MA
 Sample : I1386-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 CHA-SB-01-0-2

Manual Integrations
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Quant Time: Jan 27 14:48:43 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	166313	20.00	ng	0.00
21) Naphthalene-d8	8.26	136	611496	20.00	ng	-0.01
38) Acenaphthene-d10	10.03	164	279026	20.00	ng	0.00
63) Phenanthrene-d10	11.52	188	391998	20.00	ng	-0.01
75) Chrysene-d12	14.16	240	306330	20.00	ng	-0.01
86) Perylene-d12	15.64	264	231243	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.56	112	1077507	100.80	ng	0.01
7) Phenol-d6	6.59	99	1331052	97.76	ng	0.00
23) Nitrobenzene-d5	7.54	82	960194	85.77	ng	0.00
41) 2,4,6-Tribromophenol	10.82	330	195154	102.63	ng	0.00
44) 2-Fluorobiphenyl	9.34	172	1270427	84.19	ng	-0.01
78) Terphenyl-d14	13.11	244	1004116	87.29	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.60	94	110404	6.72	ng	# 73
49) Dimethylphthalate	9.73	163	87882	4.95	ng	99
51) Acenaphthene	10.05	154	33998	2.26	ng	94
57) Fluorene	10.57	166	35339	2.34	ng	# 94
70) Phenanthrene	11.54	178	758421	35.13	ng	98
71) Anthracene	11.58	178	181951	8.62	ng	98
72) Carbazole	11.74	167	132557	6.58	ng	# 97
73) Di-n-butylphthalate	12.08	149	50045	2.17	ng	98
74) Fluoranthene	12.73	202	1670776	79.13	ng	99
77) Pyrene	12.96	202	1416623	63.83	ng	99
79) Butylbenzylphthalate	13.57	149	26086	2.90	ng	# 91
80) Benzo(a)anthracene	14.15	228	755619	45.90	ng	97
82) Chrysene	14.18	228	562524	31.99	ng	97
83) Bis(2-ethylhexyl)phthalate	14.13	149	86470	7.64	ng	# 98
85) Indeno(1,2,3-cd)pyrene	17.14	276	254312	19.55	ng	96
87) Benzo(b)fluoranthene	15.21	252	731453m	49.27	ng	
88) Benzo(k)fluoranthene	15.23	252	169352m	13.72	ng	
89) Benzo(a)pyrene	15.59	252	419122	33.37	ng	96
90) Dibenzo(a,h)anthracene	17.15	278	52985	5.22	ng	# 73
91) Benzo(a,h,i)perylene	17.60	276	242011	23.56	ng	# 90

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

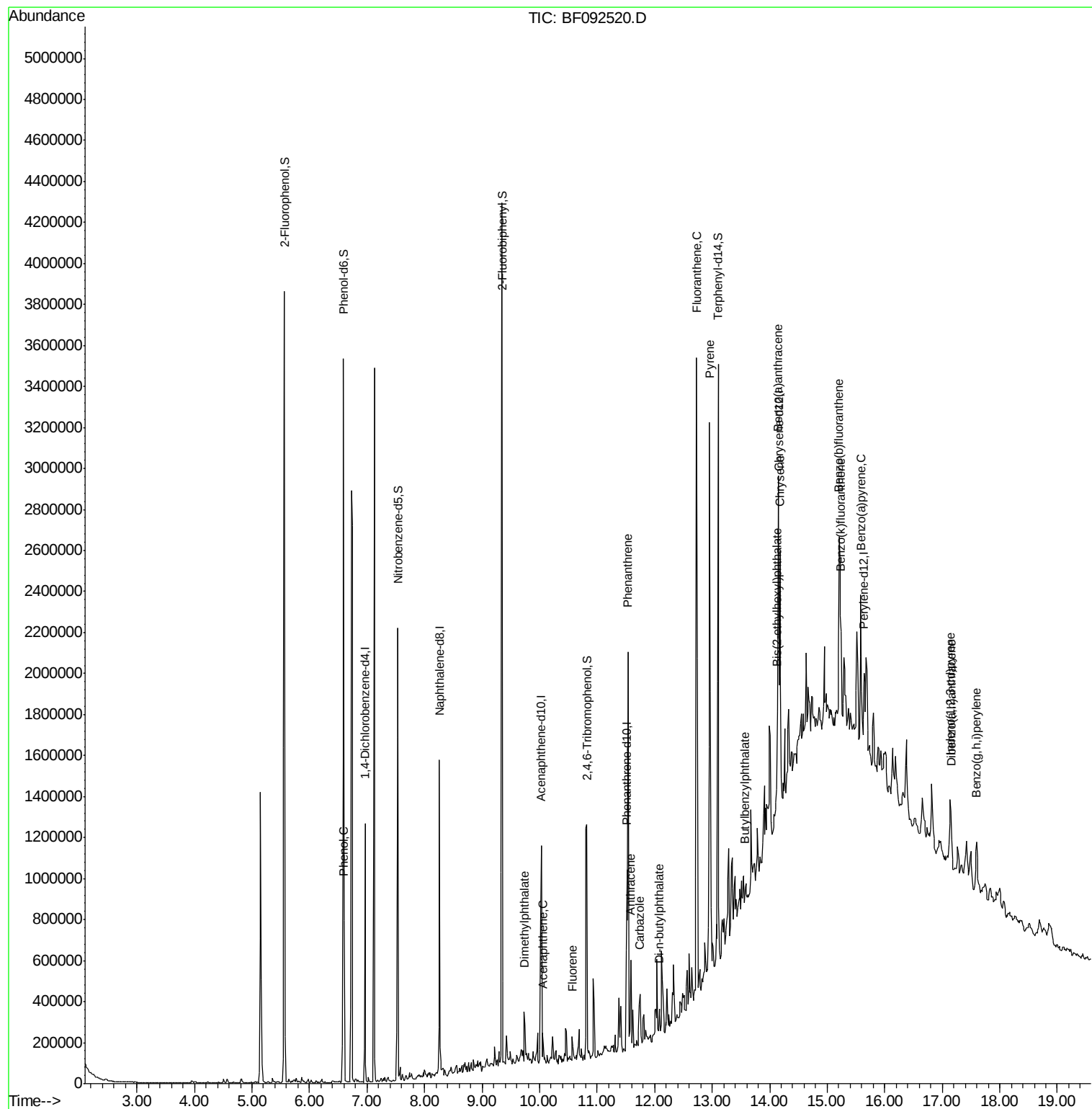
Data Path : Z:\HPCHEM1\BNA F\DATA\BF012617\
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ALS Vial : 11 Sample Multiplier: 1

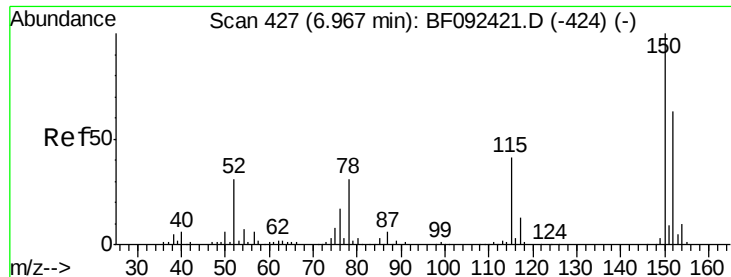
Instrument :
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CHA-SB-01-0-2

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Quant Time: Jan 27 14:48:43 2017
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#1

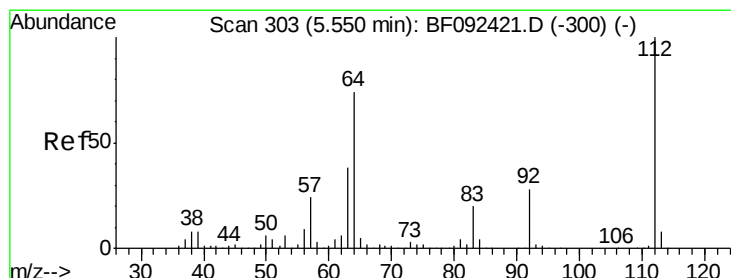
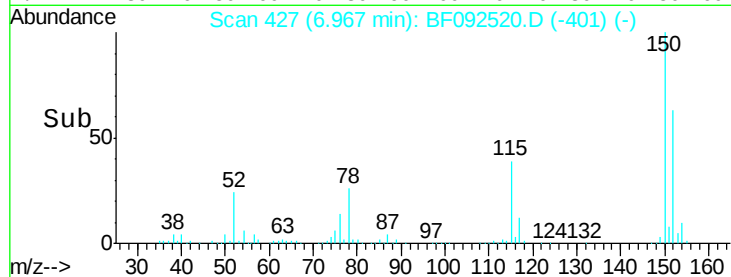
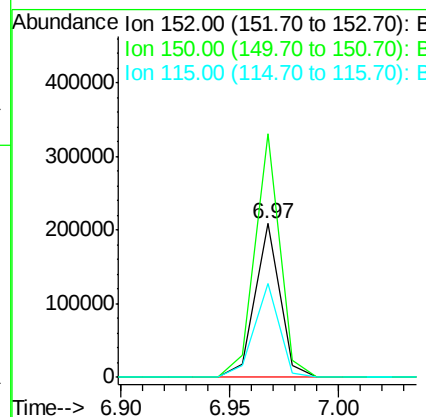
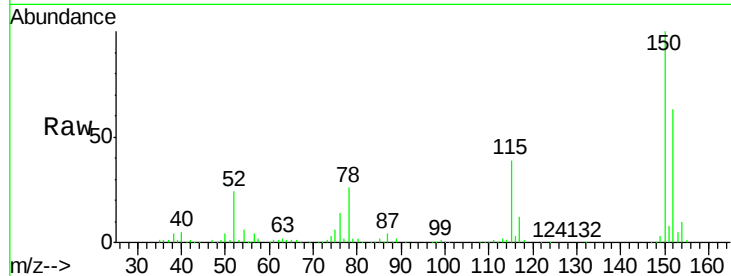
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.97 min Scan# 427
Delta R.T. -0.00 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Instrument :
BNA_F
ClientSampleId :
CHA-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.5	124.9	187.3
115	61.5	46.0	69.0

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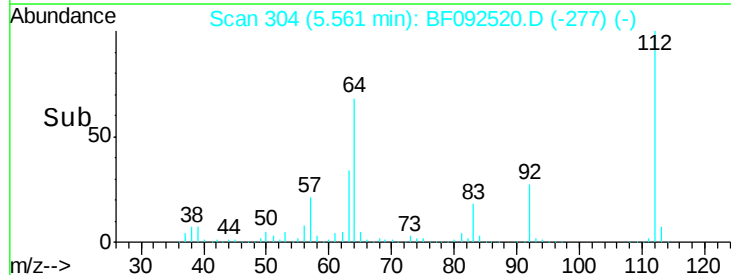
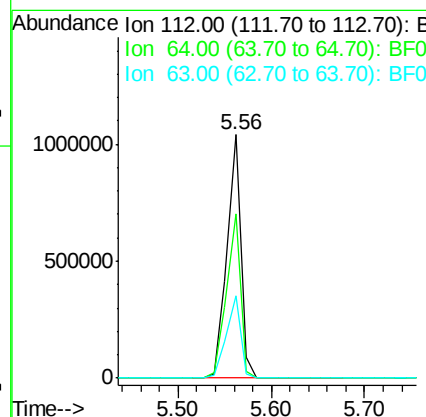
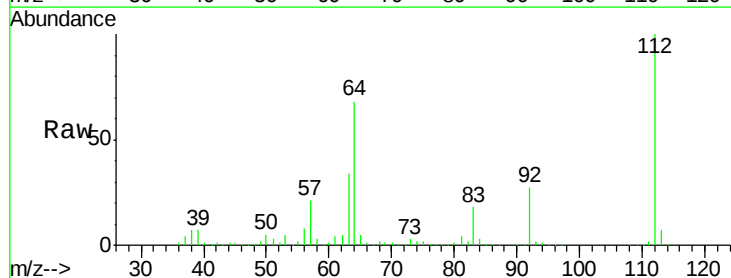
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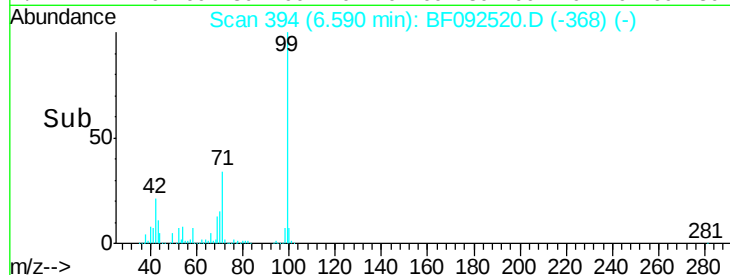
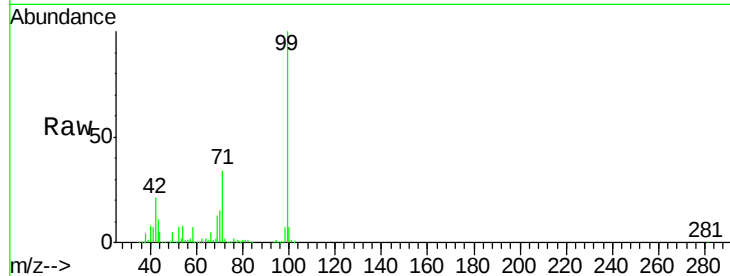
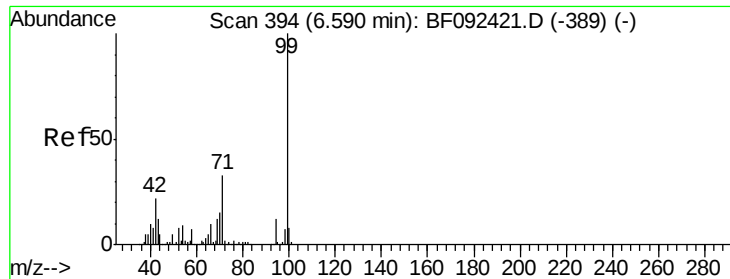


#5

2-Fluorophenol
Concen: 100.80 ng
RT: 5.56 min Scan# 304
Delta R.T. 0.01 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.7	46.1	69.1
63	33.7	23.8	35.6





#7

Phenol-d6

Concen: 97.76 ng

RT: 6.59 min Scan# 394

Delta R.T. -0.00 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Tot Ion: 99 Resp: 1331052

Ion Ratio Lower Upper

99 100

42 21.3 15.6 23.4

71 33.5 27.5 41.3

Instrument :

BNA_F

ClientSampleId :

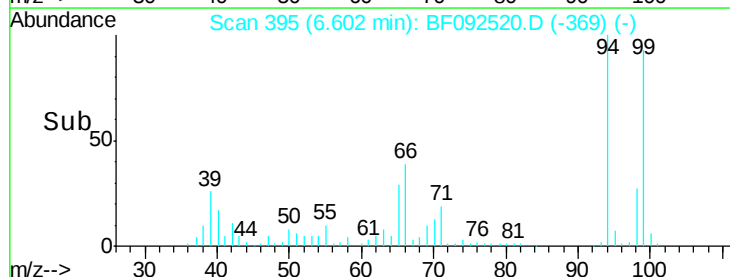
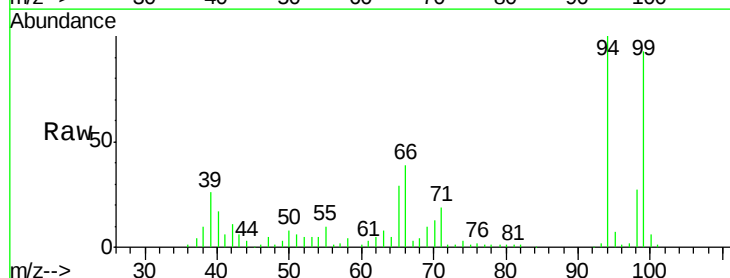
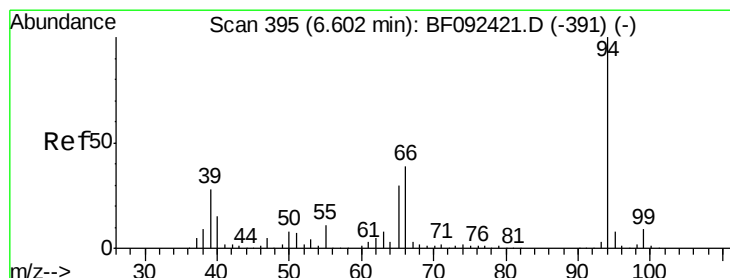
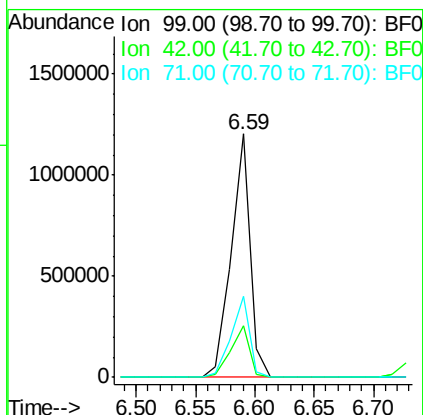
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#10

Phenol

Concen: 6.72 ng

RT: 6.60 min Scan# 395

Delta R.T. -0.00 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

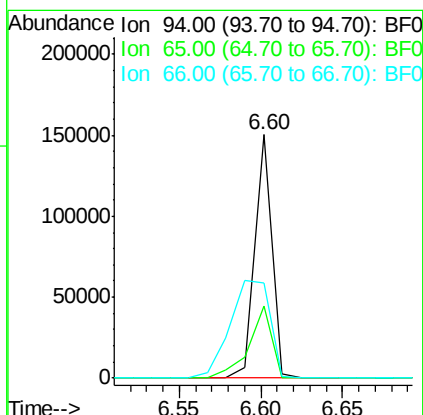
Tgt Ion: 94 Resp: 110404

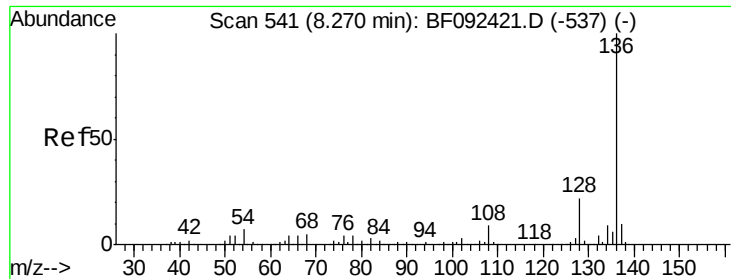
Ion Ratio Lower Upper

94 100

65 29.4 21.4 61.4

66 39.1 44.0 84.0#





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.26 min Scan# 540

Delta R.T. -0.01 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Instrument :

BNA_F

ClientSampleId :

CHA-SB-01-0-2

Tot Ion: 136 Resp: 611496

Ion Ratio Lower Upper

136 100

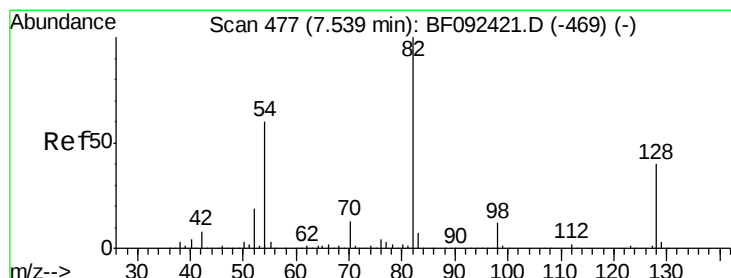
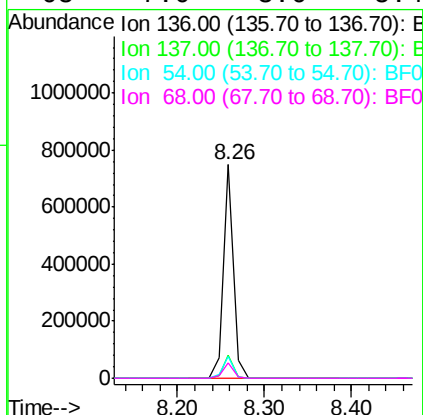
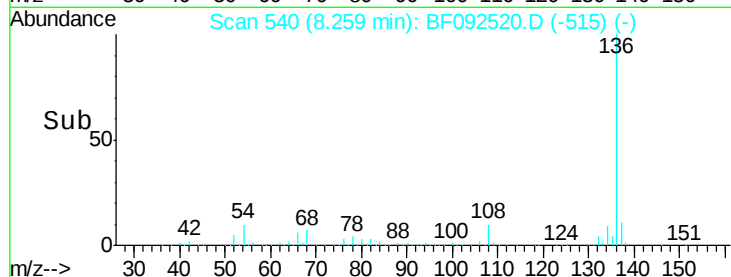
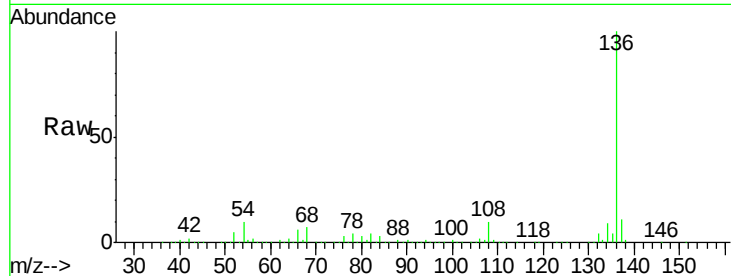
137 11.0 8.4 12.6

54 10.2 4.5 6.7#

68 7.0 3.6 5.4#

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#23

Nitrobenzene-d5

Concen: 85.77 ng

RT: 7.54 min Scan# 477

Delta R.T. -0.00 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

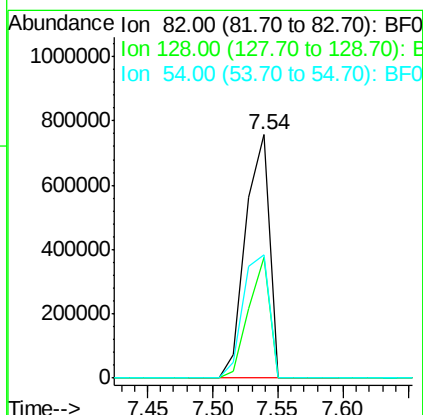
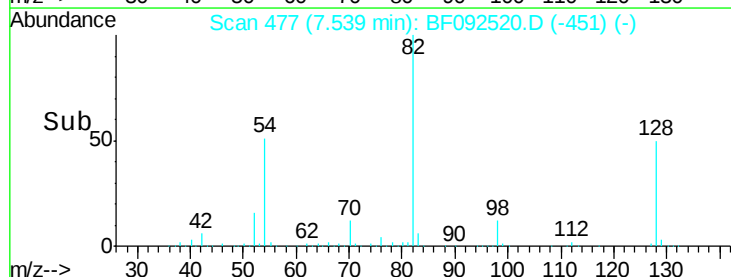
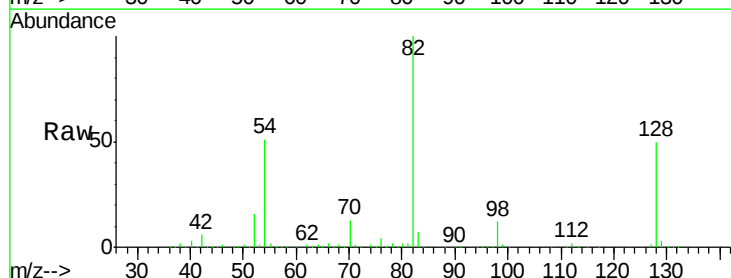
Tgt Ion: 82 Resp: 960194

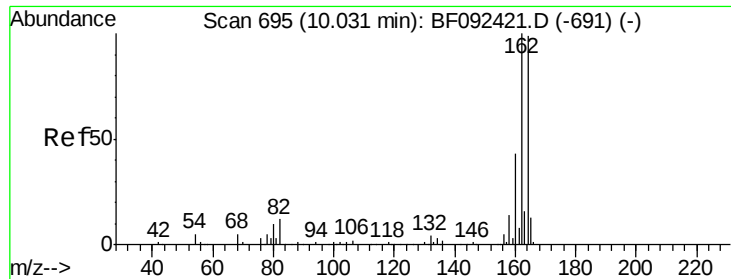
Ion Ratio Lower Upper

82 100

128 49.5 34.6 52.0

54 50.7 39.5 59.3





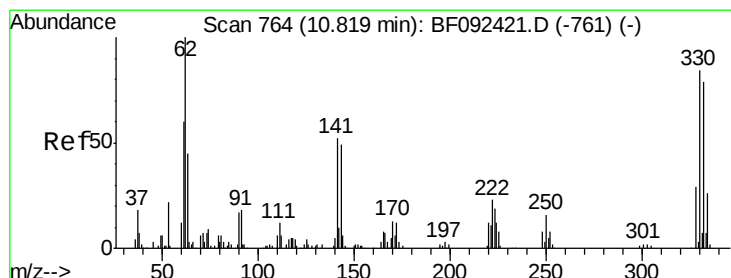
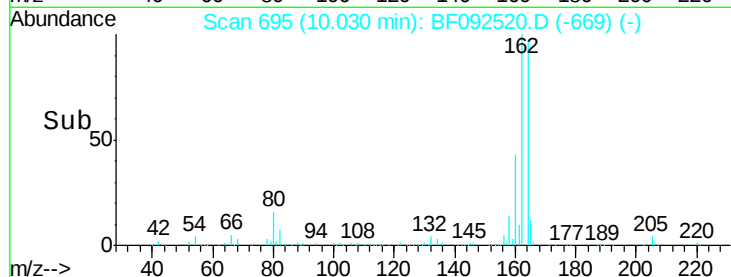
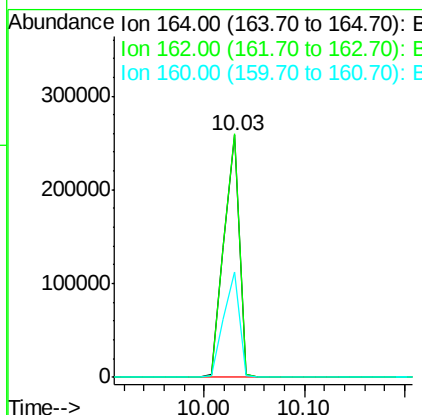
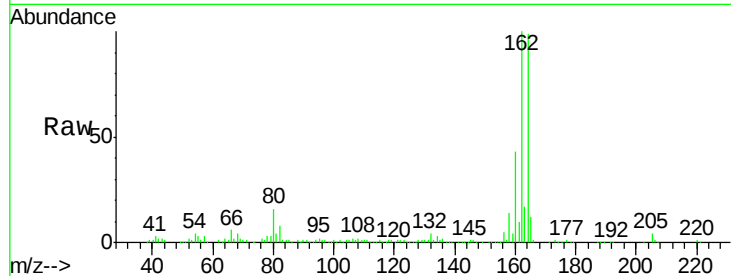
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.03 min Scan# 695
Delta R.T. -0.00 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Instrument :
BNA_F
ClientSampleId :
CHA-SB-01-0-2

Tot Ion	Ratio	Resp	Lower	Upper
164	100	279026		
162	100.6		80.2	120.2
160	43.4		36.9	55.3

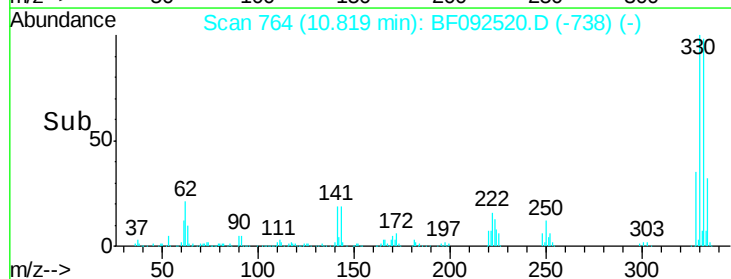
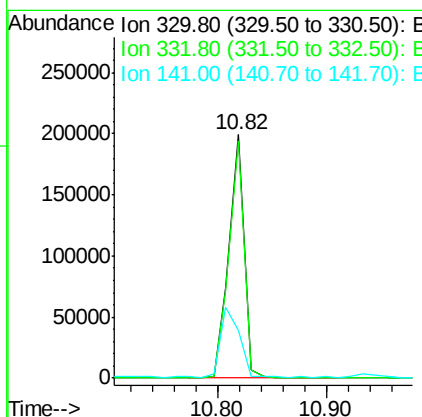
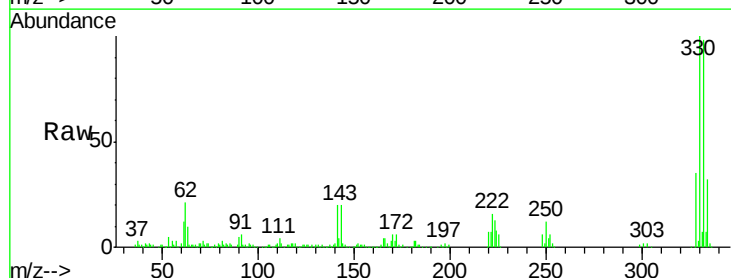
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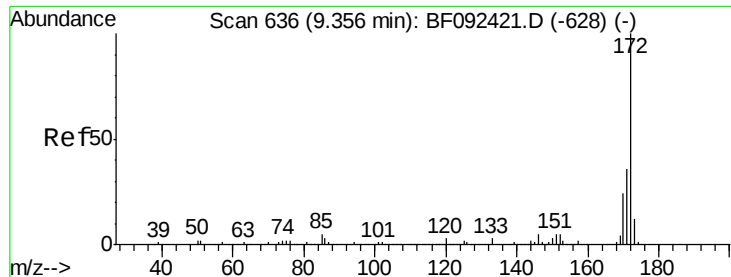
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#41
2,4,6-Tribromophenol
Concen: 102.63 ng
RT: 10.82 min Scan# 764
Delta R.T. -0.00 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	195154		
332	96.9		77.4	116.2
141	36.1		34.1	51.1





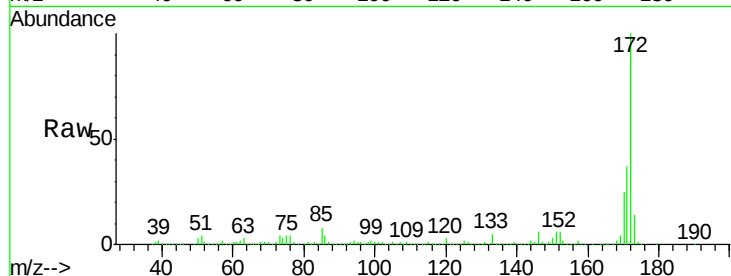
#44
2-Fluorobiphenyl
Concen: 84.19 ng
RT: 9.34 min Scan# 635
Delta R.T. -0.01 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Instrument :
BNA_F
ClientSampleId :
CHA-SB-01-0-2

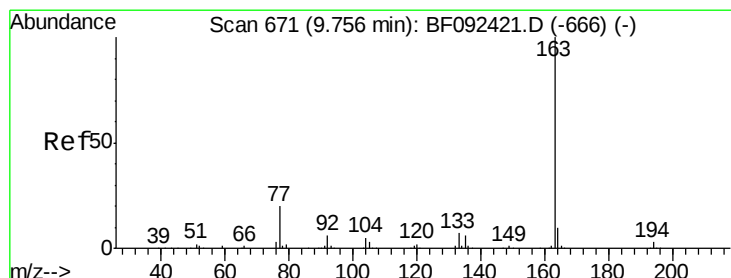
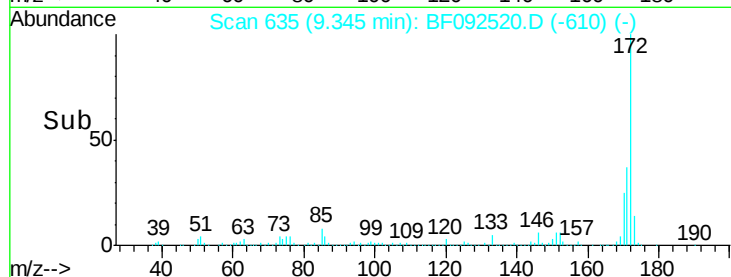
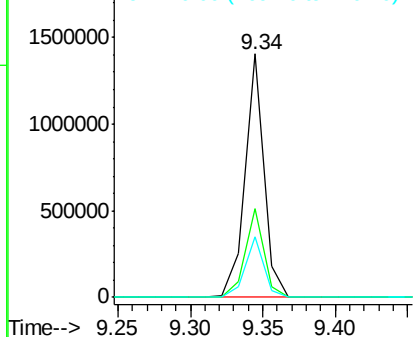
Tot Ion:172 Resp: 1270427
Ion Ratio Lower Upper
172 100
171 36.5 29.4 44.0
170 24.6 20.2 30.4

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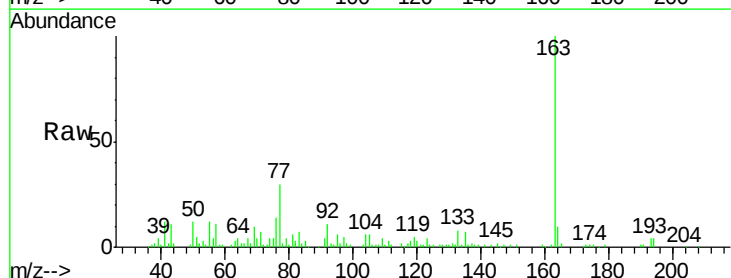


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

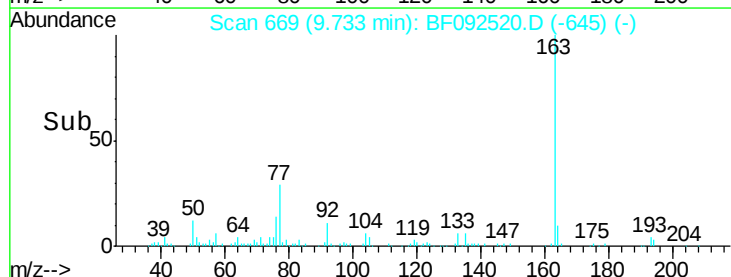
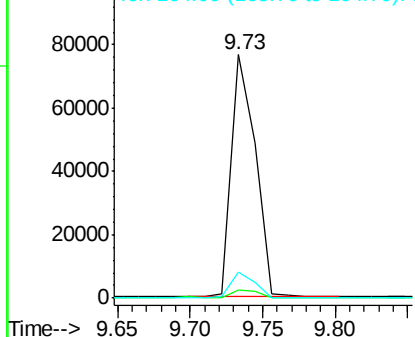


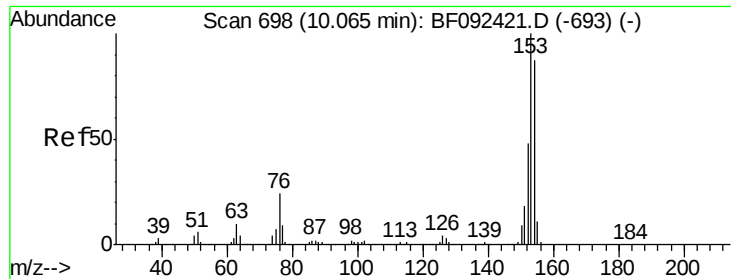
#49
Dimethylphthalate
Concen: 4.95 ng
RT: 9.73 min Scan# 669
Delta R.T. -0.02 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Tgt Ion:163 Resp: 87882
Ion Ratio Lower Upper
163 100
194 3.5 3.0 4.4
164 10.4 8.0 12.0



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: 2.26 ng

RT: 10.05 min Scan# 697

Delta R.T. -0.01 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Instrument :

BNA_F

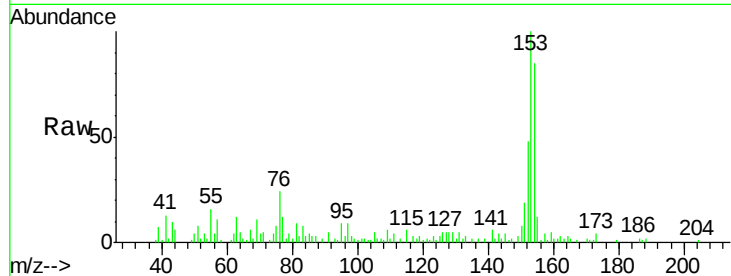
ClientSampleId :

CHA-SB-01-0-2

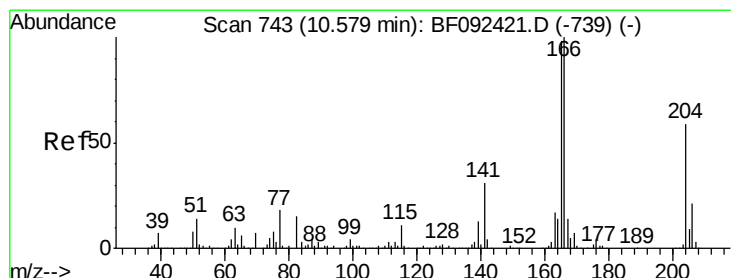
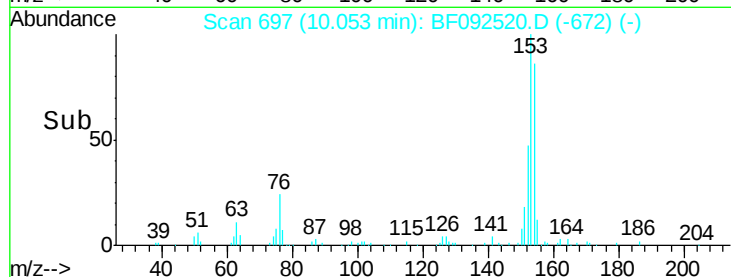
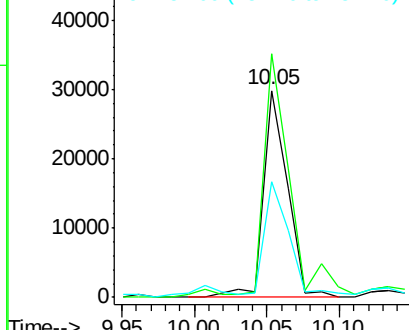
Tot Ion	Ratio	Lower	Upper
154	100		
153	117.6	88.6	133.0
152	55.8	41.6	62.4

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



#57

Fluorene

Concen: 2.34 ng

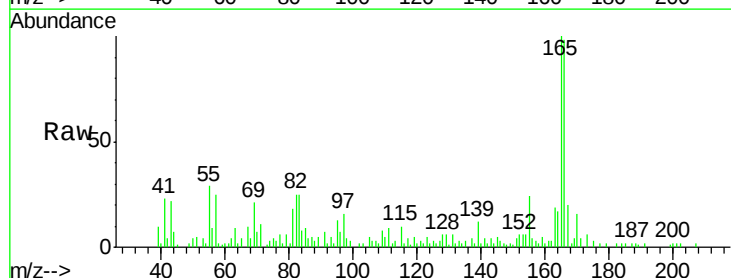
RT: 10.57 min Scan# 742

Delta R.T. -0.01 min

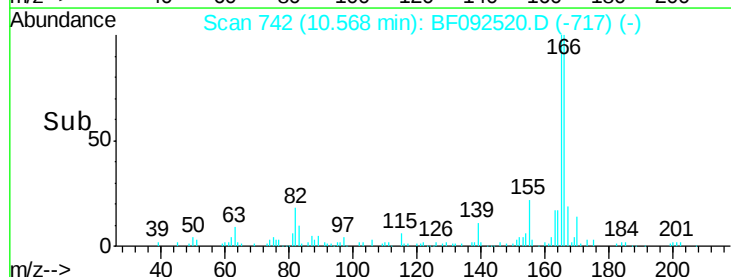
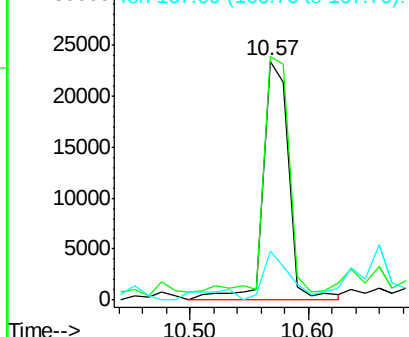
Lab File: BF092520.D

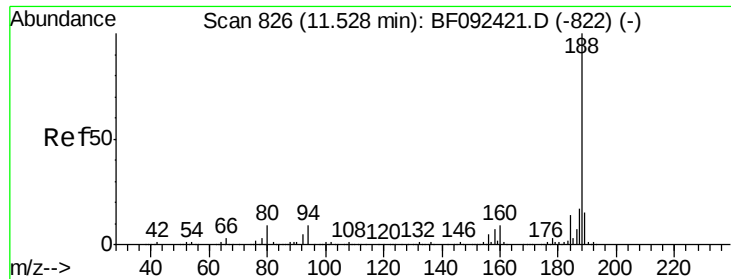
Acq: 26 Jan 2017 12:43

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.9	77.8	116.8
167	20.3	10.8	16.2#



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: 11.52 min Scan# 825

Delta R.T. -0.01 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Instrument :

BNA_F

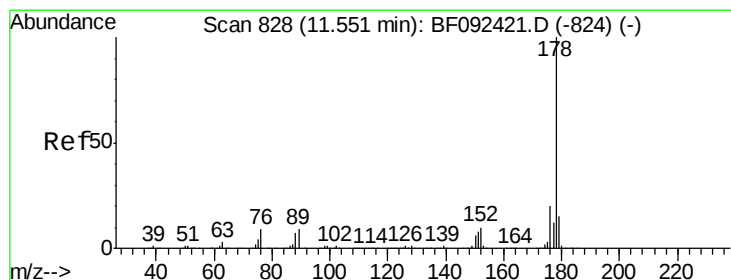
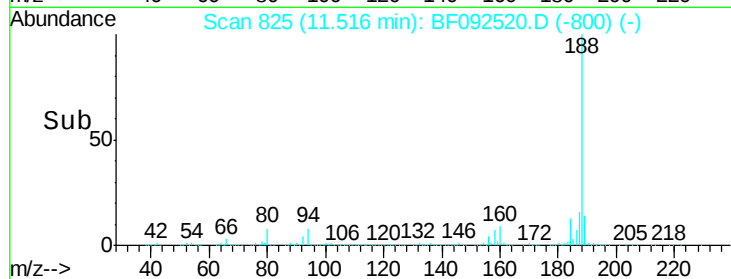
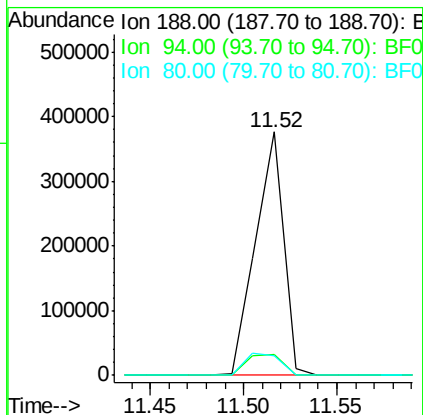
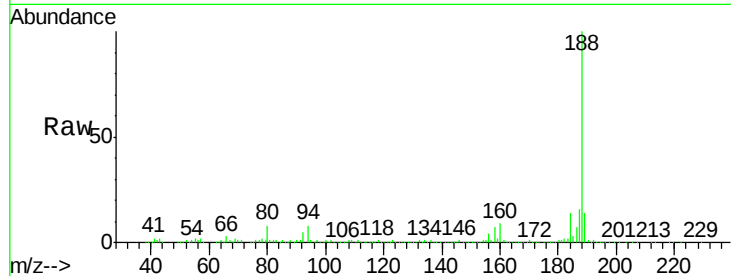
ClientSampleId :

CHA-SB-01-0-2

Tot Ion:	188	Resp:	391998
Ion Ratio	Lower	Upper	
188	100		
94	8.4	10.0	15.0#
80	8.1	11.2	16.8#

Manual Integrations
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#70

Phenanthrene

Concen: 35.13 ng

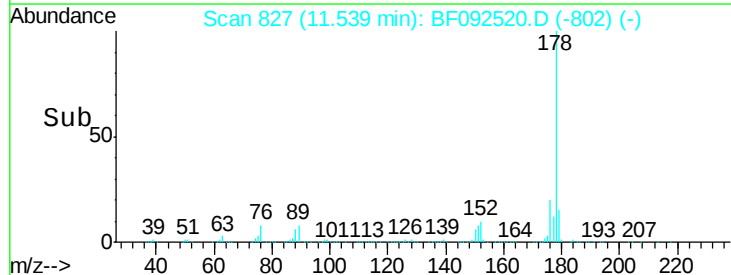
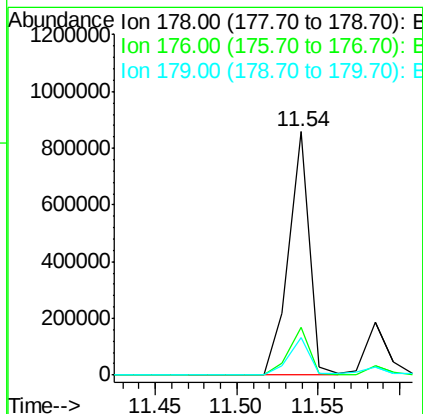
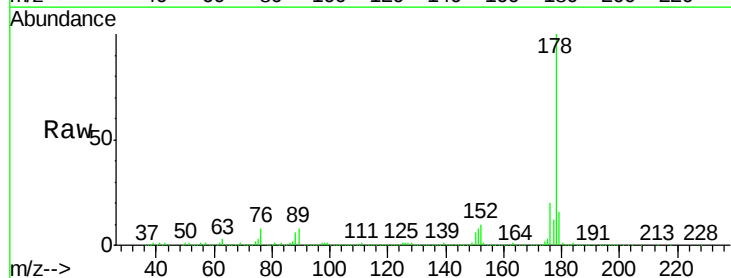
RT: 11.54 min Scan# 827

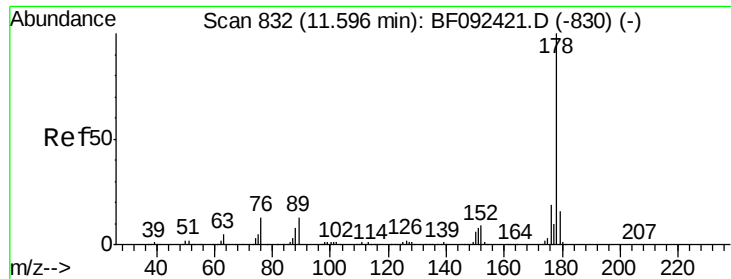
Delta R.T. -0.01 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Tgt Ion:	178	Resp:	758421
Ion Ratio	Lower	Upper	
178	100		
176	19.9	16.6	25.0
179	15.5	12.8	19.2





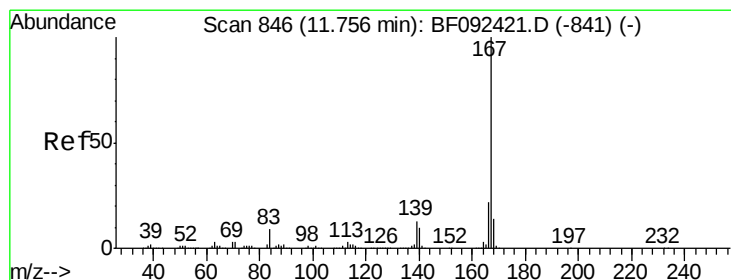
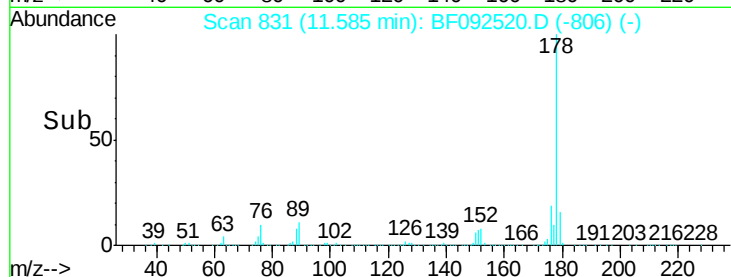
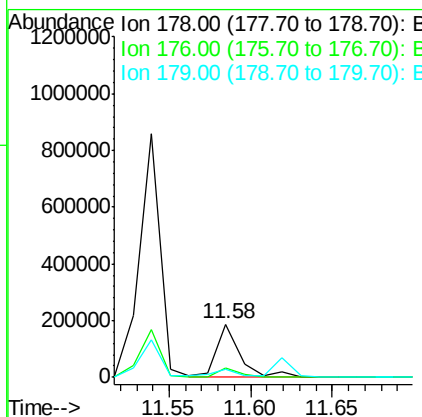
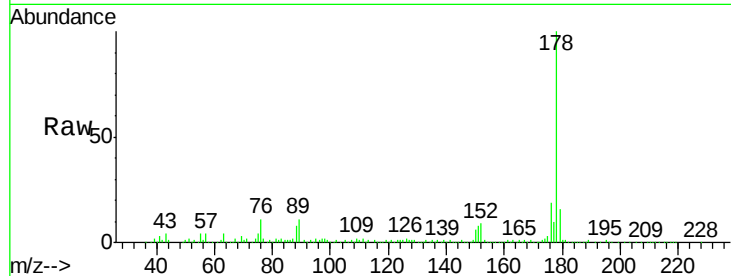
#71
 Anthracene
 Concen: 8.62 ng
 RT: 11.58 min Scan# 831
 Delta R.T. -0.01 min
 Lab File: BF092520.D
 Acq: 26 Jan 2017 12:43

Instrument :
 BNA_F
 ClientSampleId :
 CHA-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.9	23.9
179	15.8	13.2	19.8

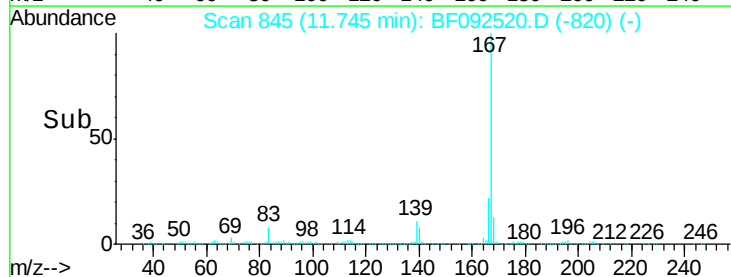
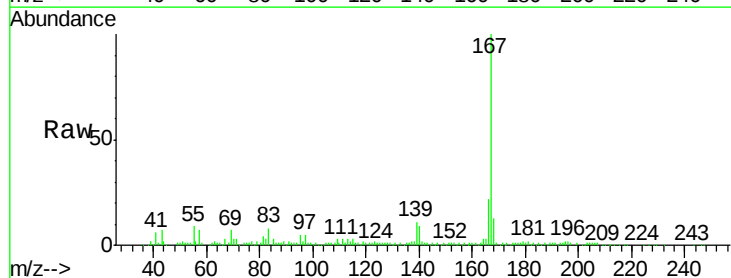
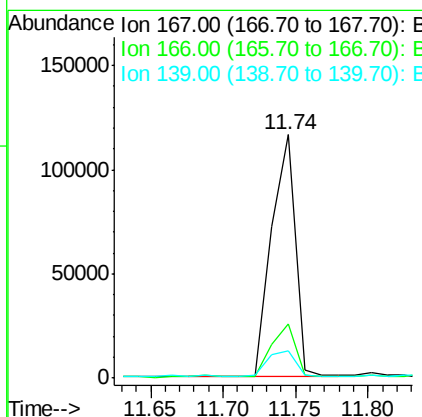
Manual Integrations
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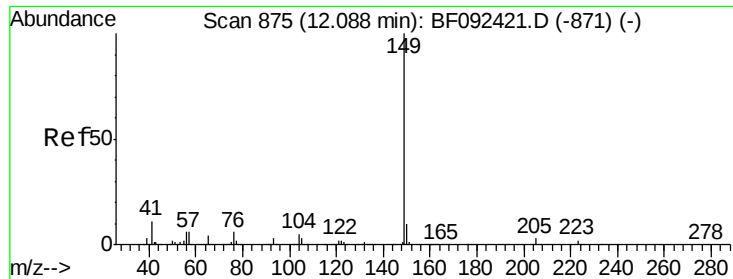
mohammad
 1/27/2017 5:33:23 PM



#72
 Carbazole
 Concen: 6.58 ng
 RT: 11.74 min Scan# 845
 Delta R.T. -0.01 min
 Lab File: BF092520.D
 Acq: 26 Jan 2017 12:43

Tgt Ion	Ratio	Lower	Upper
167	100		
166	22.4	18.2	27.2
139	11.2	11.4	17.2#





#73

Di-n-butylphthalate

Concen: 2.17 ng

RT: 12.08 min Scan# 874

Delta R.T. -0.01 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Instrument :

BNA_F

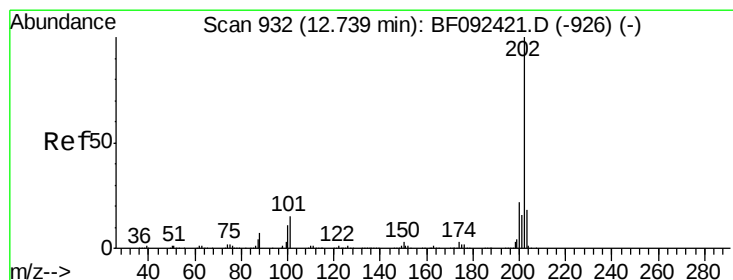
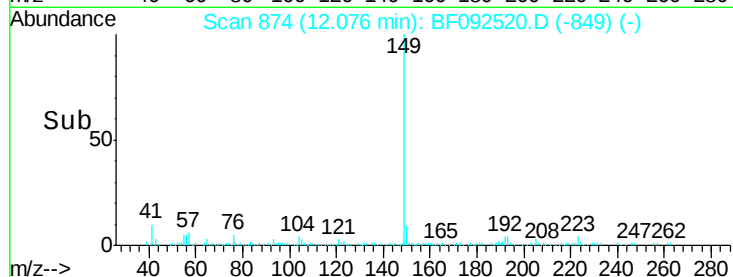
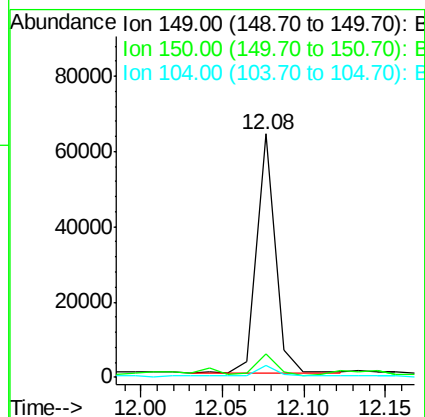
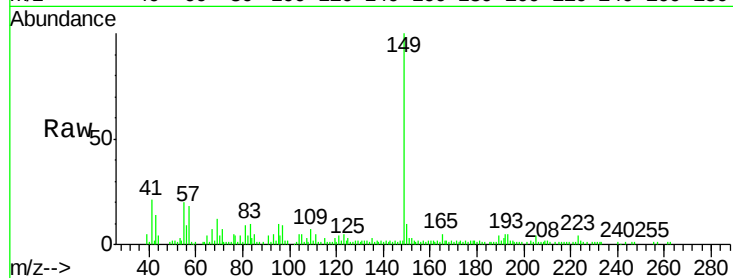
ClientSampleId :

CHA-SB-01-0-2

Tot Ion:	149	Resp:	50045
Ion Ratio	Lower	Upper	
149	100		
150	9.9	8.1	12.1
104	4.7	4.6	7.0

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#74

Fluoranthene

Concen: 79.13 ng

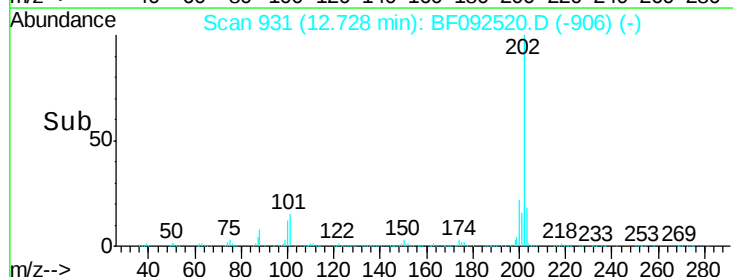
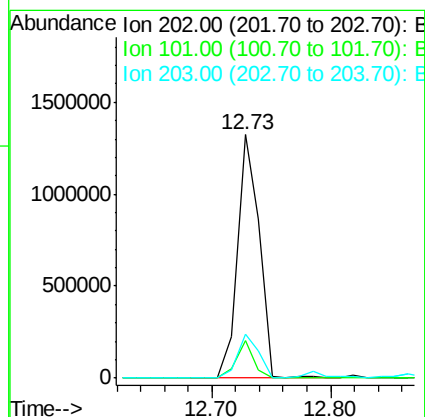
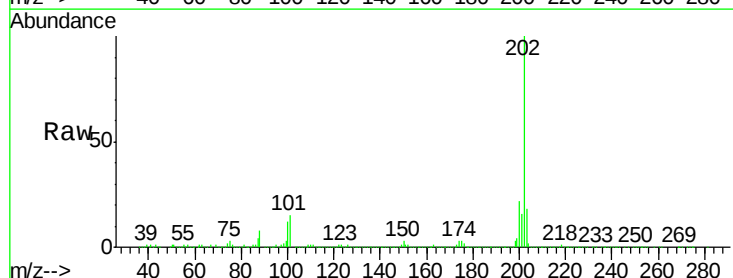
RT: 12.73 min Scan# 931

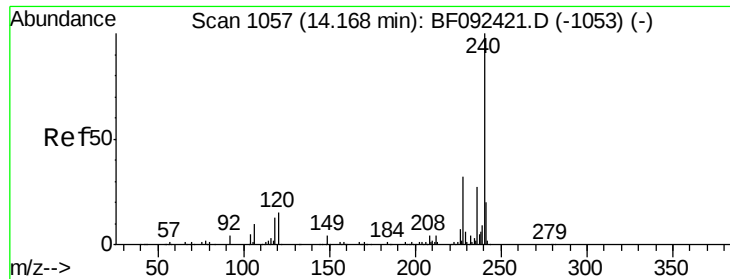
Delta R.T. -0.01 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Tgt Ion:	202	Resp:	1670776
Ion Ratio	Lower	Upper	
202	100		
101	15.4	0.0	34.6
203	18.2	0.0	38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.16 min Scan# 1056

Delta R.T. -0.01 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Instrument :

BNA_F

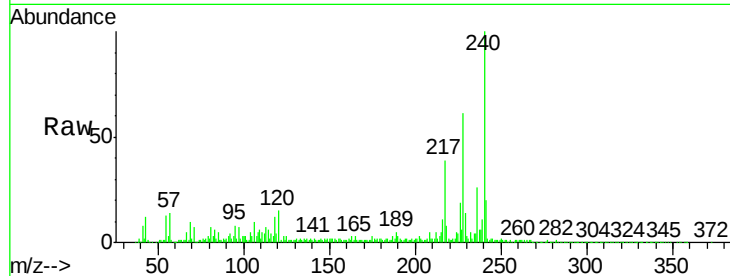
ClientSampleId :

CHA-SB-01-0-2

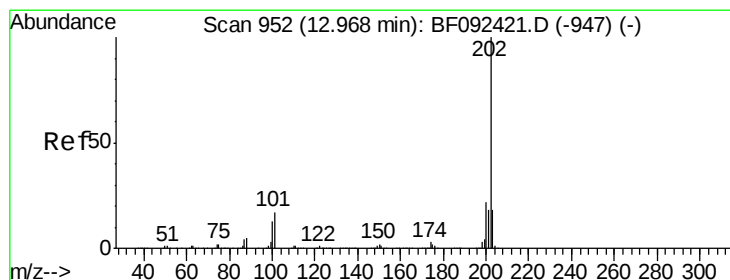
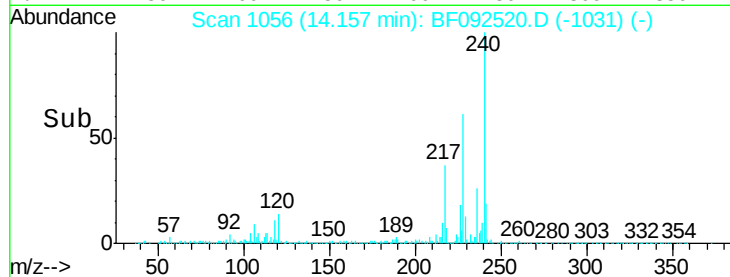
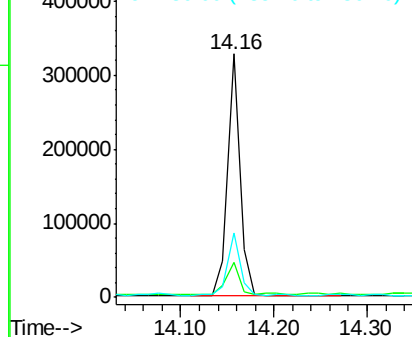
Tot Ion:	240	Resp:	306330
Ion Ratio	Lower	Upper	
240	100		
120	14.6	12.9	19.3
236	26.4	20.9	31.3

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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: 63.83 ng

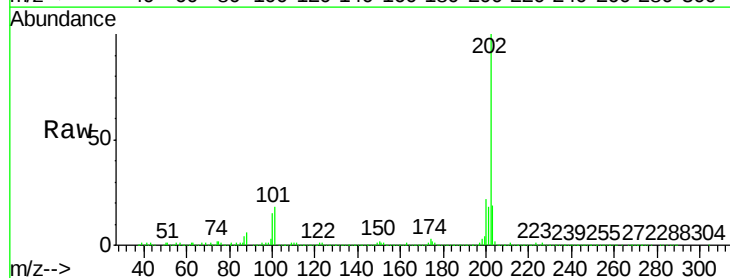
RT: 12.96 min Scan# 951

Delta R.T. -0.01 min

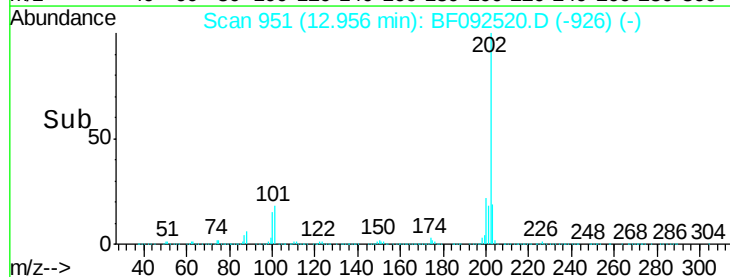
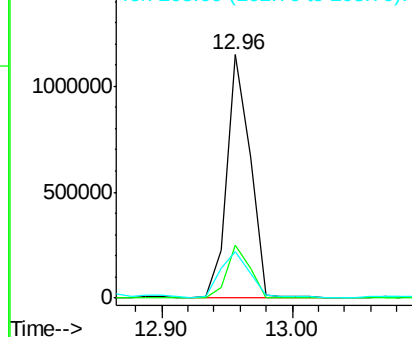
Lab File: BF092520.D

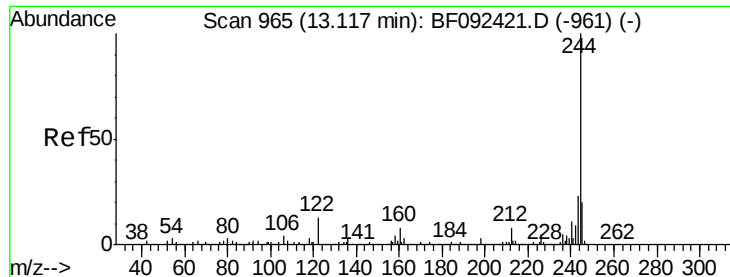
Acq: 26 Jan 2017 12:43

Tgt Ion:	202	Resp:	1416623
Ion Ratio	Lower	Upper	
202	100		
200	21.9	17.7	26.5
203	19.0	14.7	22.1



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: 87.29 ng

RT: 13.11 min Scan# 964

Delta R.T. -0.01 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

Instrument :

BNA_F

ClientSampleId :

CHA-SB-01-0-2

Tot Ion:244 Resp: 1004116

Ion Ratio Lower Upper

244 100

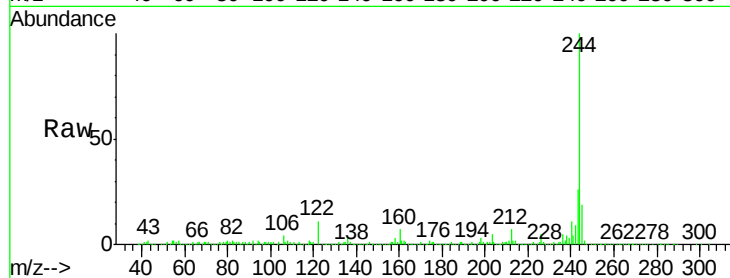
212 7.2 6.2 9.2

122 10.8 11.4 17.2#

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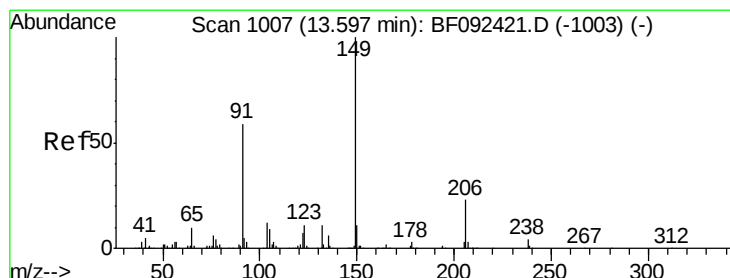
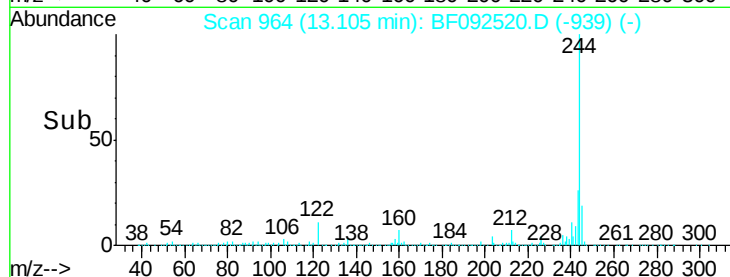
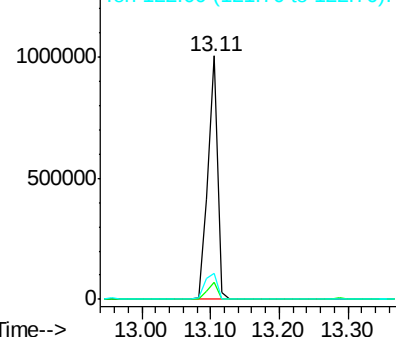
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#79

Butylbenzylphthalate

Concen: 2.90 ng

RT: 13.57 min Scan# 1005

Delta R.T. -0.02 min

Lab File: BF092520.D

Acq: 26 Jan 2017 12:43

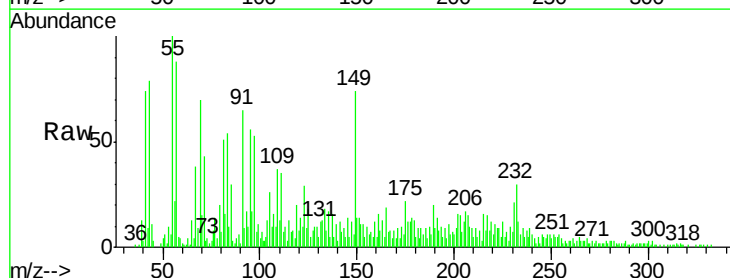
Tgt Ion:149 Resp: 26086

Ion Ratio Lower Upper

149 100

91 87.7 63.9 95.9

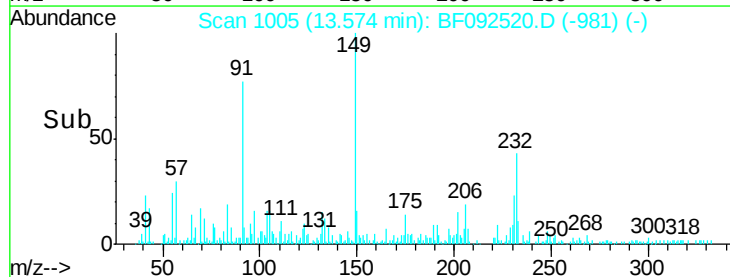
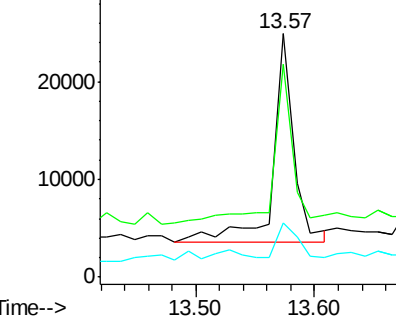
206 22.5 14.6 21.8#

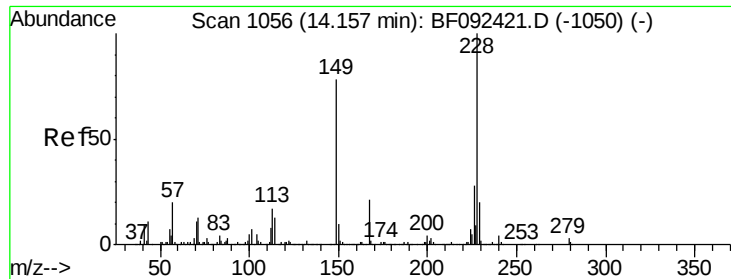


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E





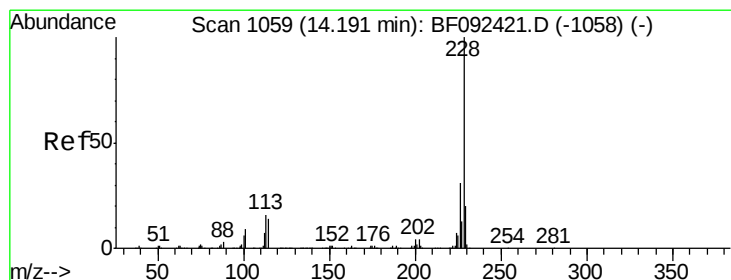
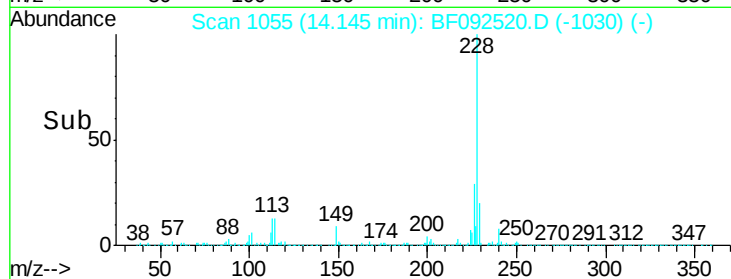
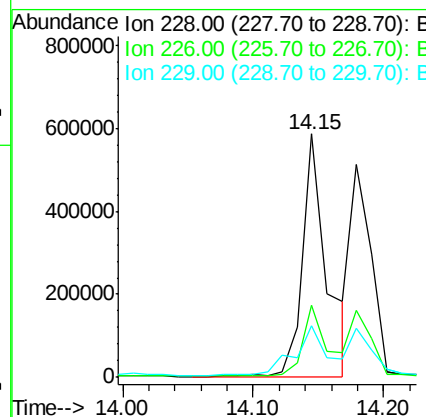
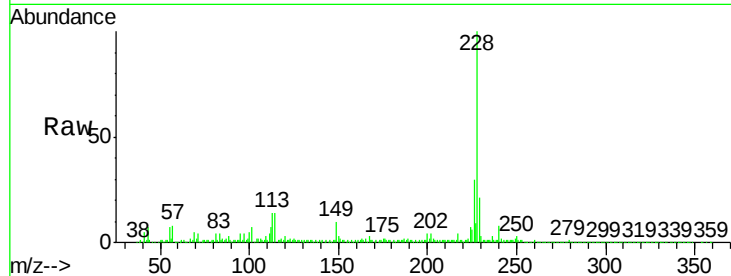
#80
Benzo(a)anthracene
Concen: 45.90 ng
RT: 14.15 min Scan# 1055
Delta R.T. -0.01 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Instrument :
BNA_F
ClientSampleId :
CHA-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.8	22.4	33.6
229	21.0	16.2	24.4

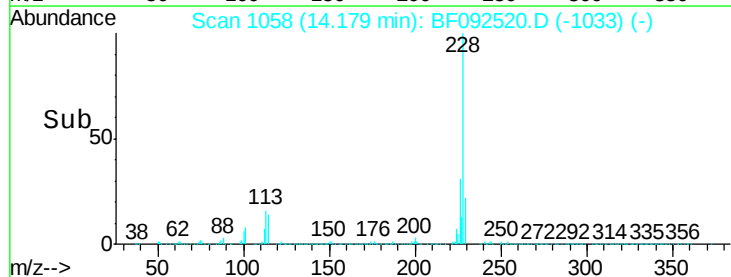
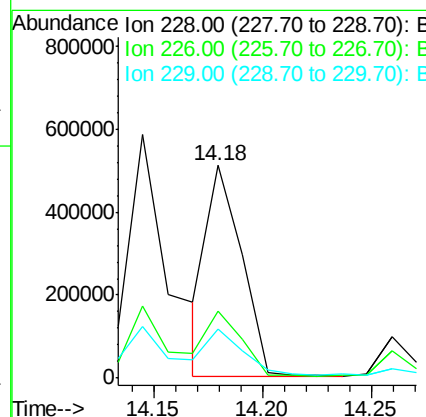
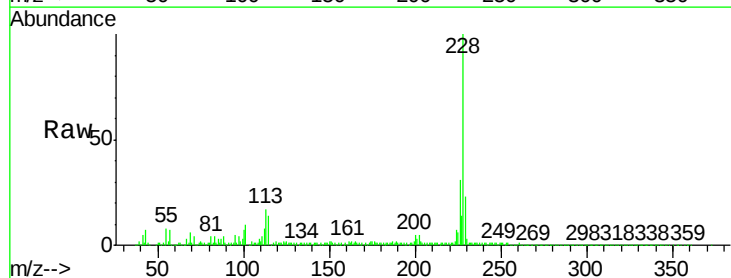
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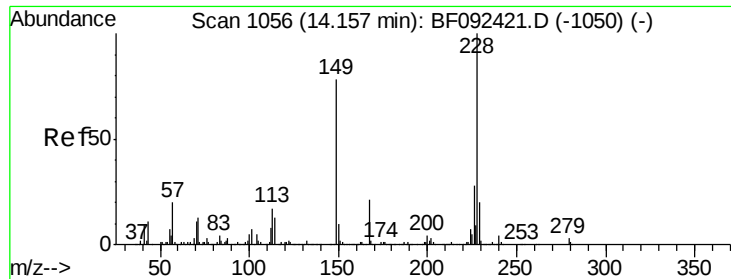
mohammad
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#82
Chrysene
Concen: 31.99 ng
RT: 14.18 min Scan# 1058
Delta R.T. -0.01 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.3	25.4	38.0
229	23.3	16.2	24.2





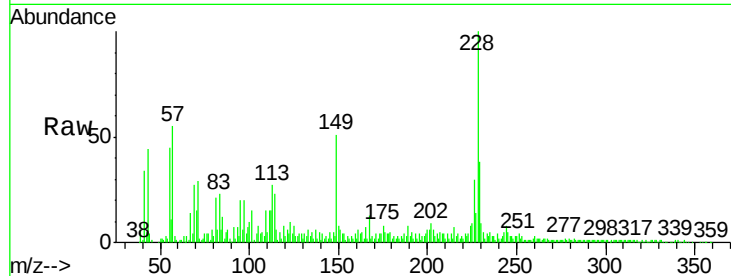
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 7.64 ng
 RT: 14.13 min Scan# 1054
 Delta R.T. -0.02 min
 Lab File: BF092520.D
 Acq: 26 Jan 2017 12:43

Instrument :
 BNA_F
 ClientSampleId :
 CHA-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.2	30.4
279	3.9	1.8	2.8

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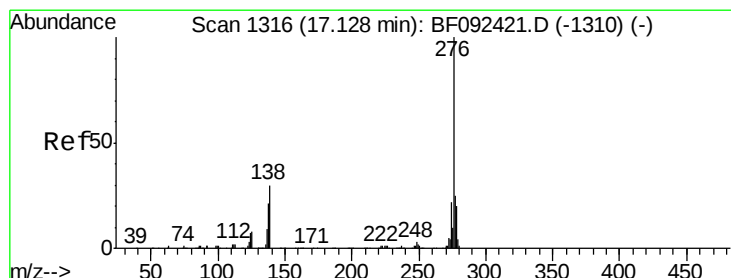
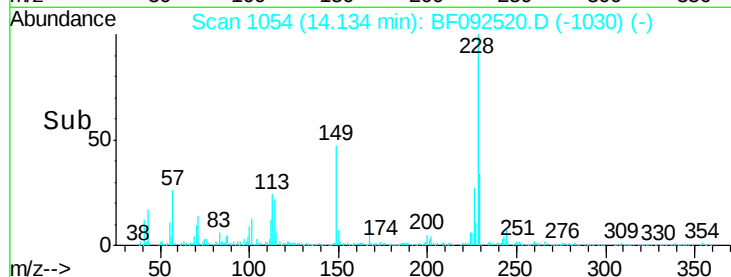
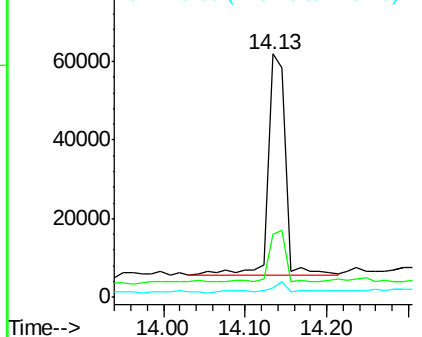


Abundance

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: 19.55 ng
 RT: 17.14 min Scan# 1317
 Delta R.T. 0.01 min
 Lab File: BF092520.D
 Acq: 26 Jan 2017 12:43

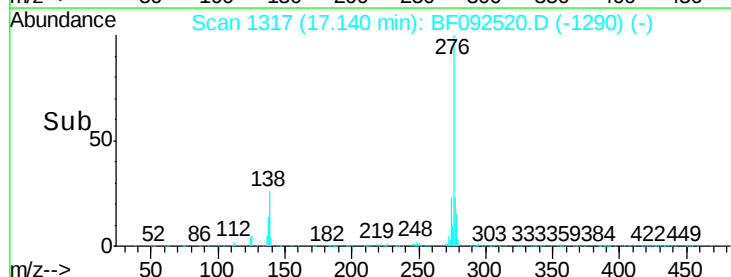
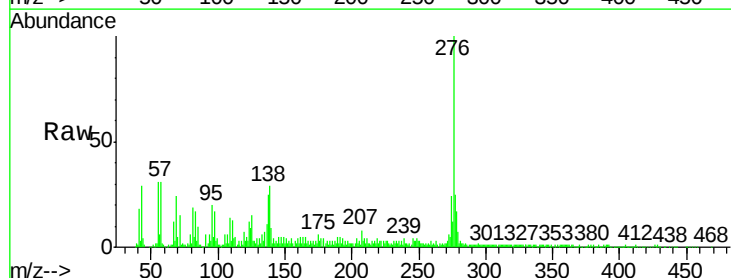
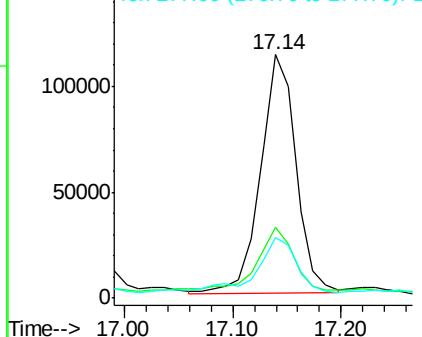
Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.9	21.8	32.6
277	27.7	20.2	30.4

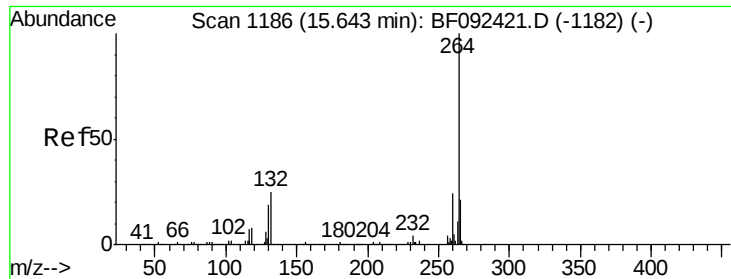
Abundance

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





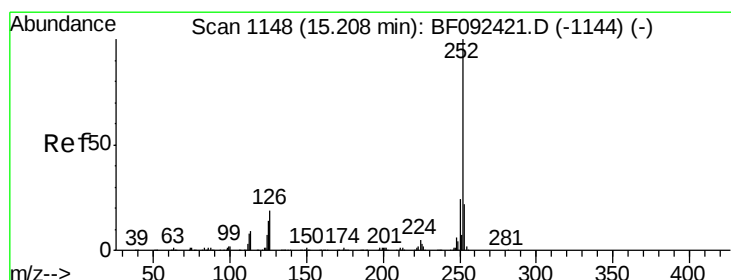
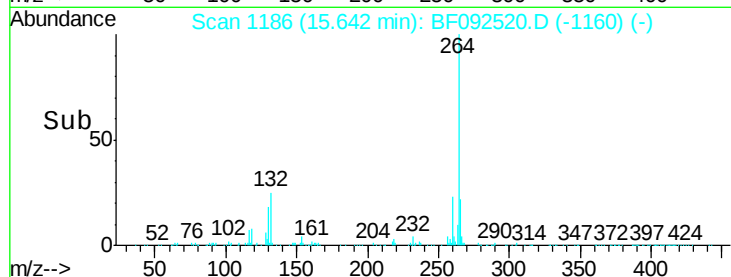
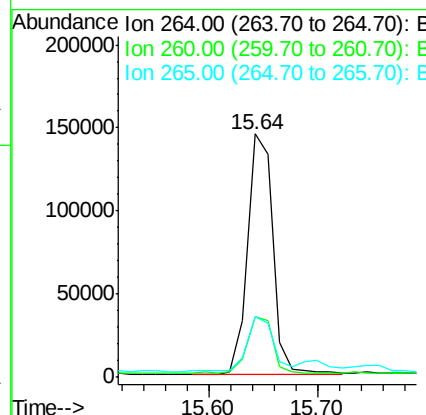
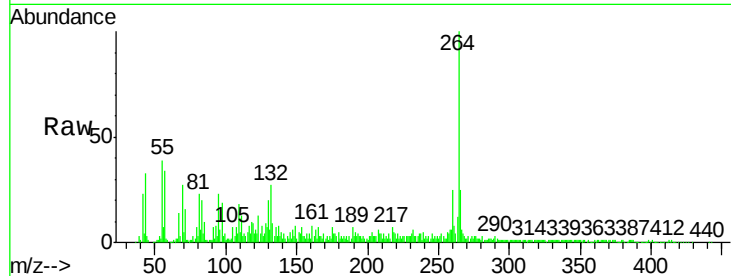
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.64 min Scan# 1186
Delta R.T. -0.00 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Instrument :
BNA_F
ClientSampleId :
CHA-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.2	28.8
265	24.8	17.4	26.0

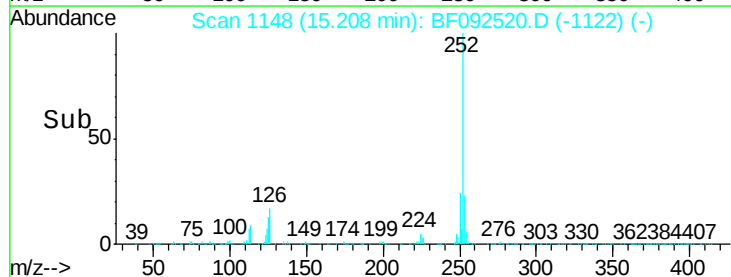
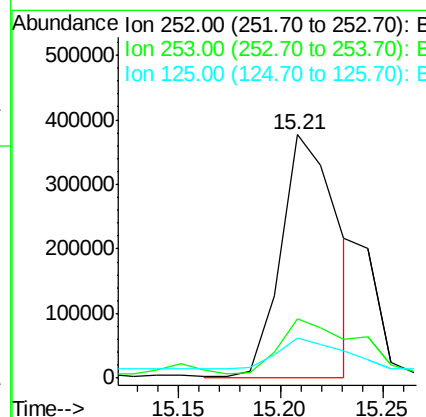
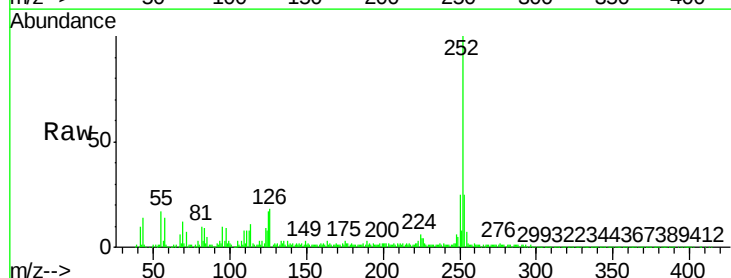
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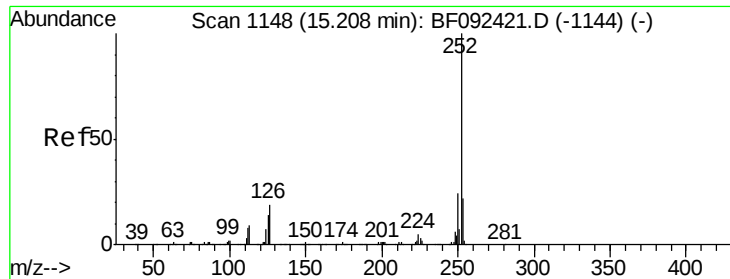
mohammad
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#87
Benzo(b)fluoranthene
Concen: 49.27 ng m
RT: 15.21 min Scan# 1148
Delta R.T. -0.00 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.5	18.2	27.4
125	16.7	9.8	14.6#





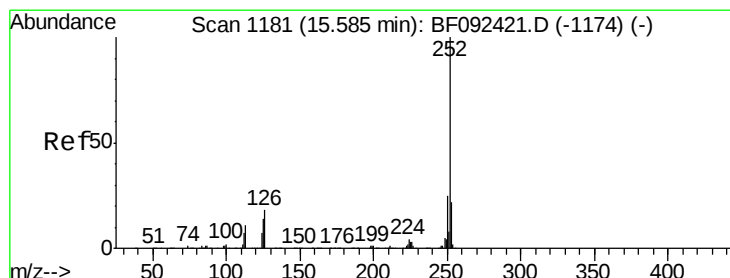
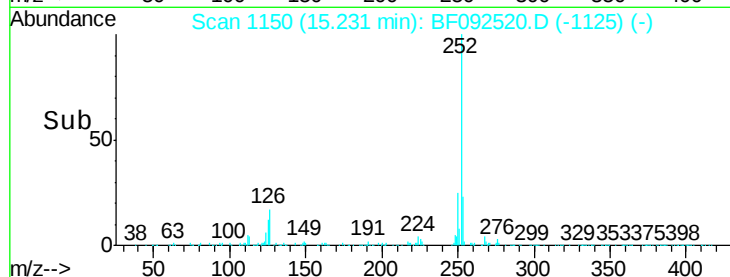
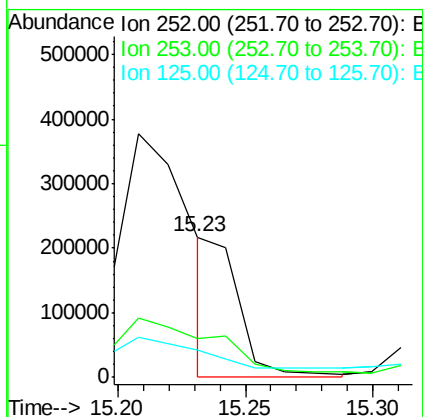
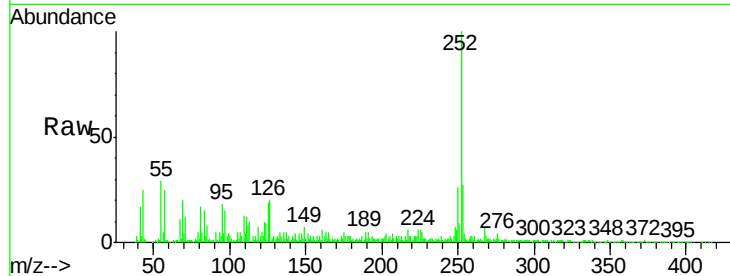
#88
Benzo(k)fluoranthene
Concen: 13.72 ng m
RT: 15.23 min Scan# 1150
Delta R.T. -0.01 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Instrument :
BNA_F
ClientSampleId :
CHA-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
252	100		
253	27.4	18.5	27.7
125	19.4	8.9	13.3

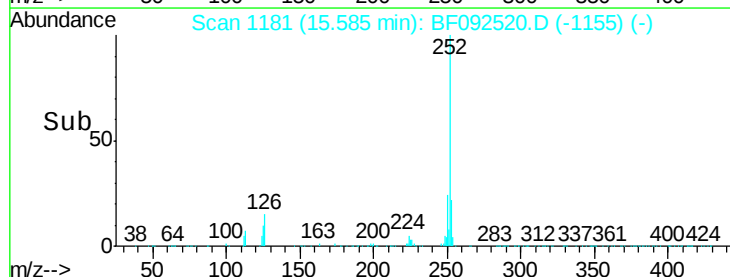
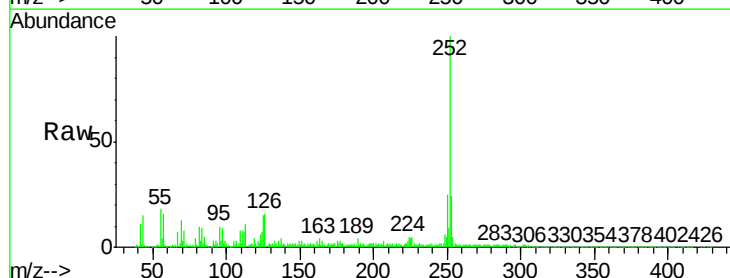
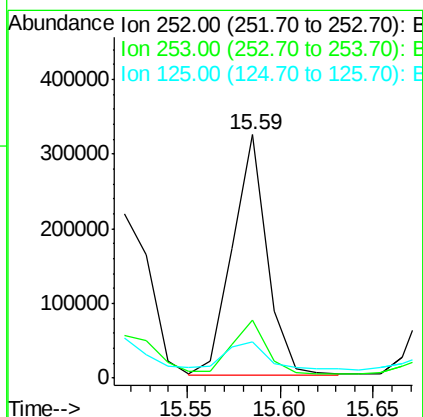
Manual Integrations
APPROVED

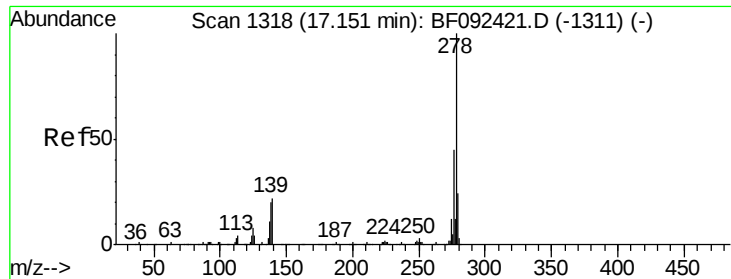
mohammad
1/27/2017 5:33:23 PM



#89
Benzo(a)pyrene
Concen: 33.37 ng
RT: 15.59 min Scan# 1181
Delta R.T. -0.00 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	18.2	27.2
125	14.9	10.0	15.0





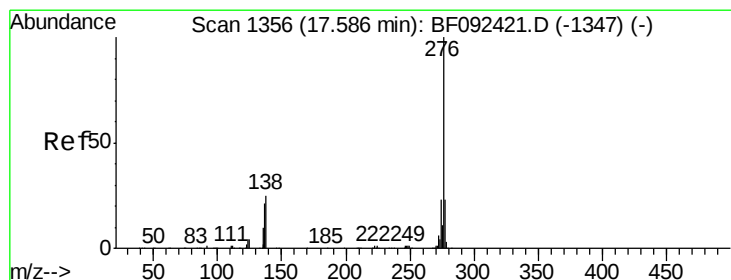
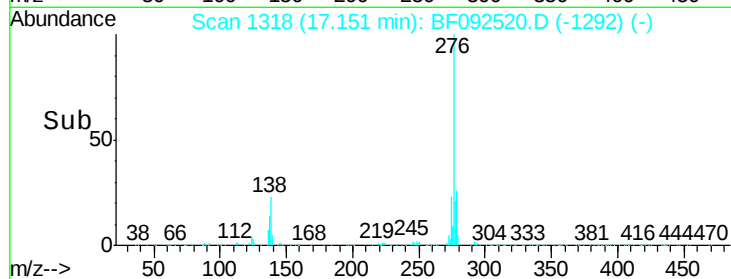
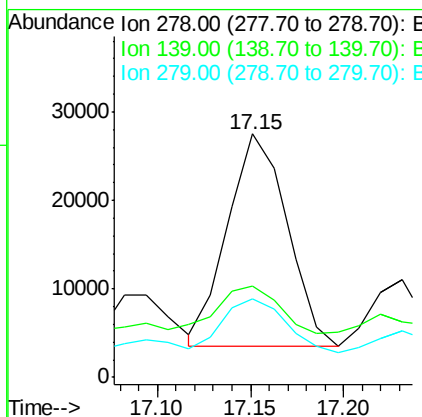
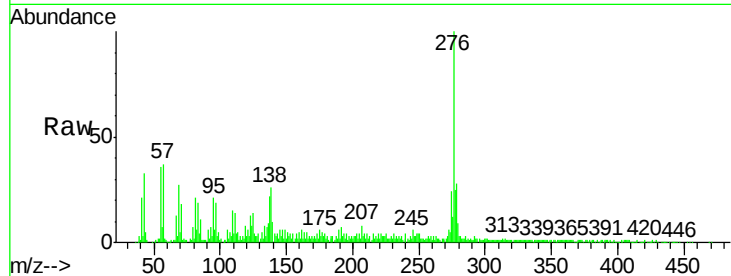
#90
Dibenzo(a,h)anthracene
Concen: 5.22 ng
RT: 17.15 min Scan# 1318
Delta R.T. -0.00 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Instrument :
BNA_F
ClientSampleId :
CHA-SB-01-0-2

Tot Ion	Ratio	Lower	Upper
278	100		
139	37.3	14.8	22.2#
279	32.5	19.8	29.6#

Manual Integrations
APPROVED

mohammad
1/27/2017 5:33:23 PM



#91
Benzo(g,h,i)perylene
Concen: 23.56 ng
RT: 17.60 min Scan# 1357
Delta R.T. 0.01 min
Lab File: BF092520.D
Acq: 26 Jan 2017 12:43

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.5	19.2	28.8
138	28.2	16.0	24.0#

