

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020416\
 Data File : BF084839.D
 Acq On : 4 Feb 2016 20:12
 Operator : SJ/IZ
 Sample : H1320-08
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 S4-B012(5-7)

Manual Integrations
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 2/5/2016 1:48:51 PM

Quant Time: Feb 05 02:48:06 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF020116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Feb 03 14:16:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.67	152	148365	20.00	ng	-0.01
21) Naphthalene-d8	7.96	136	630389	20.00	ng	-0.01
38) Acenaphthene-d10	9.71	164	282559	20.00	ng	-0.02
63) Phenanthrene-d10	11.18	188	472683	20.00	ng	-0.02
75) Chrysene-d12	13.83	240	308906	20.00	ng	-0.01
86) Perylene-d12	15.20	264	301213	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.28	112	1544131	162.11	ng	0.00
7) Phenol-d6	6.33	99	1670324	141.45	ng	-0.01
23) Nitrobenzene-d5	7.24	82	1110717	99.26	ng	-0.02
41) 2,4,6-Tribromophenol	10.50	330	391143	132.71	ng	-0.02
44) 2-Fluorobiphenyl	9.04	172	1726239	118.39	ng	-0.02
78) Terphenyl-d14	12.79	244	1287365	94.44	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	7.98	128	131711	4.17	ng	95
37) 2-Methylnaphthalene	8.67	142	42134	2.13	ng	98
48) Acenaphthylene	9.57	152	222400	7.89	ng	97
49) Dimethylphthalate	9.44	163	339043	15.75	ng	# 90
51) Acenaphthene	9.74	154	122573	6.68	ng	99
54) Dibenzofuran	9.92	168	176401	7.87	ng	96
57) Fluorene	10.26	166	233863	12.49	ng	100
70) Phenanthrene	11.22	178	2018340	76.99	ng	96
71) Anthracene	11.26	178	675441	25.57	ng	99
72) Carbazole	11.42	167	129979	5.64	ng	98
74) Fluoranthene	12.41	202	2819398	106.25	ng	96
77) Pvrene	12.64	202	2630890	111.24	ng	97
80) Benzo(a)anthracene	13.81	228	1305585	68.10	ng	94
82) Chrysene	13.85	228	746764m	40.17	ng	
83) Bis(2-ethylhexyl)phthalate	13.83	149	46279	3.47	ng	# 95
85) Indeno(1,2,3-cd)pyrene	16.49	276	648392	44.31	ng	95
87) Benzo(b)fluoranthene	14.83	252	1389869m	68.67	ng	
88) Benzo(k)fluoranthene	14.84	252	255703m	15.28	ng	
89) Benzo(a)pvrene	15.15	252	997271	57.83	ng	97
90) Dibenzo(a,h)anthracene	16.49	278	146211m	10.07	ng	
91) Benzo(g,h,i)perylene	16.88	276	608570	41.62	ng	95

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

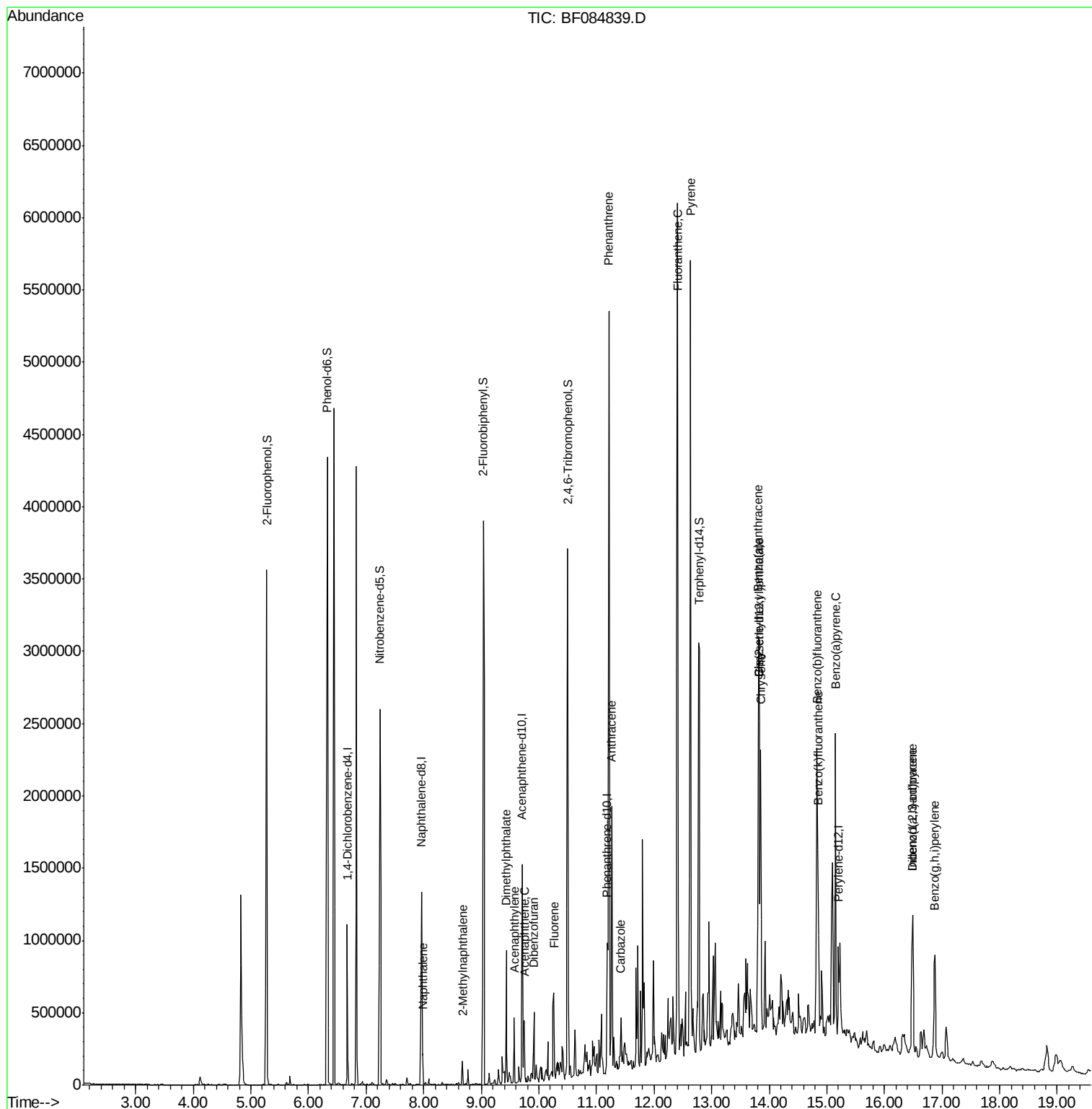
Data Path : Z:\HPCHEM1\BNA F\DATA\BF020416\
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#1

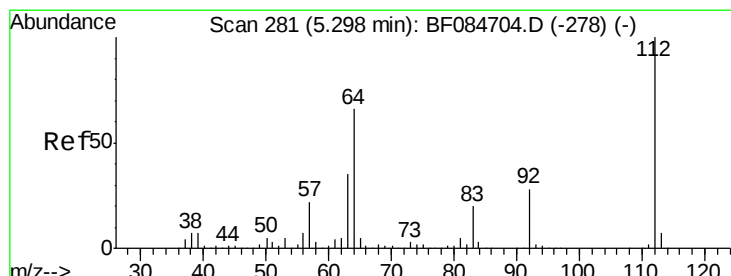
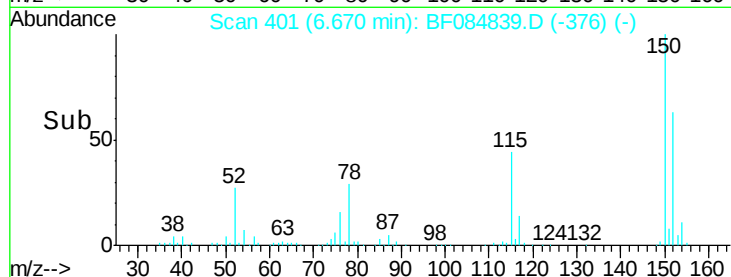
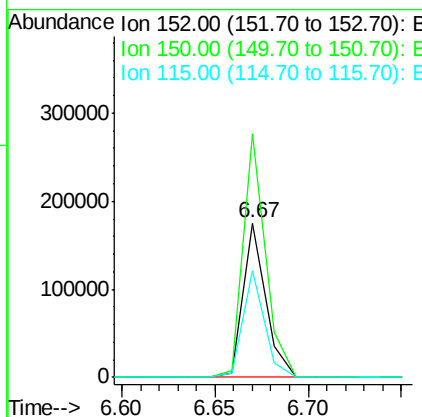
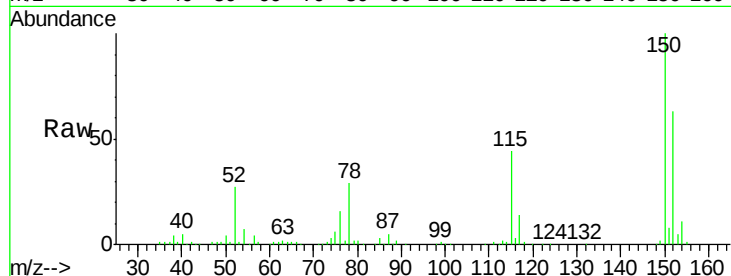
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.67 min Scan# 401
Delta R.T. -0.01 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Instrument :
BNA_F
ClientSampleId :
S4-B012(5-7)

Tot Ion	Ratio	Lower	Upper
152	100		
150	157.6	123.0	184.4
115	69.1	51.4	77.2

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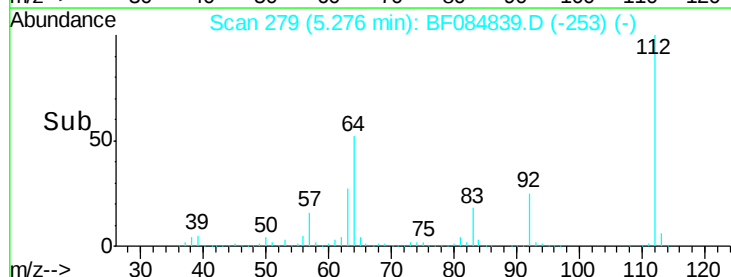
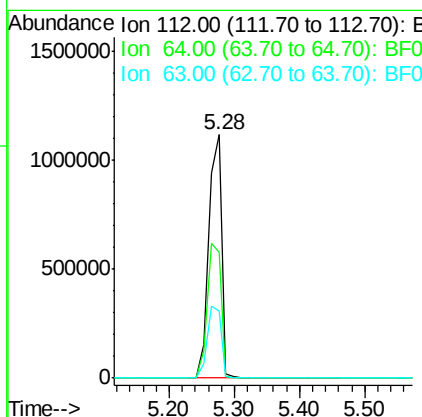
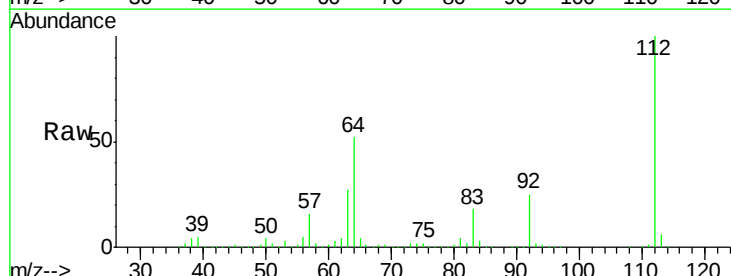
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#5

2-Fluorophenol
Concen: 162.11 ng
RT: 5.28 min Scan# 279
Delta R.T. 0.00 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	51.6	36.6	55.0
63	27.5	19.4	29.0





#7

Phenol-d6

Concen: 141.45 ng

RT: 6.33 min Scan# 371

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

ClientSampleId :

S4-B012(5-7)

Tot Ion: 99 Resp: 1670324

Ion Ratio Lower Upper

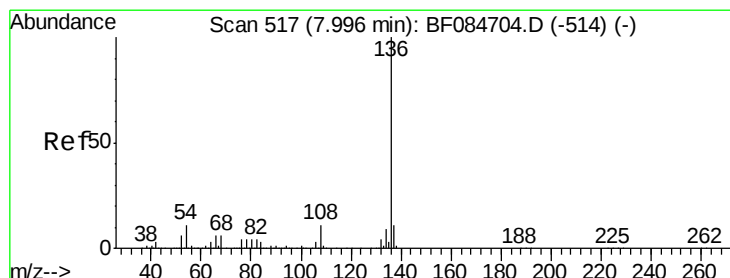
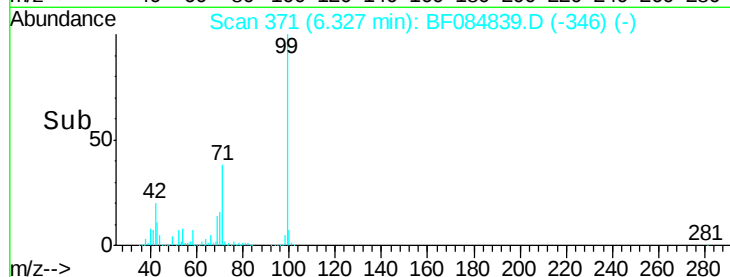
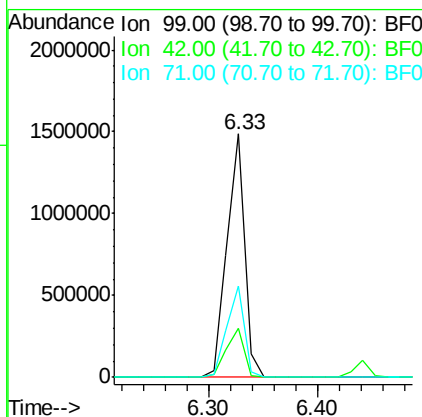
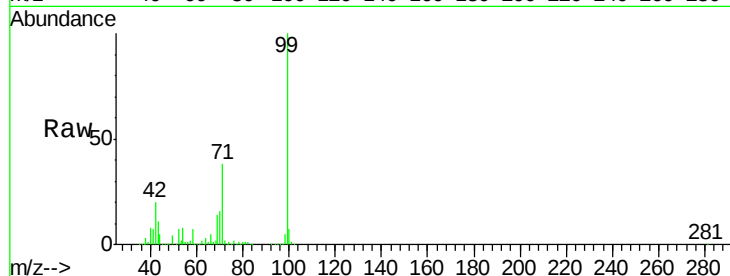
99 100

42 20.3 12.8 19.2#

71 37.6 30.9 46.3

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#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.96 min Scan# 514

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Tgt Ion: 136 Resp: 630389

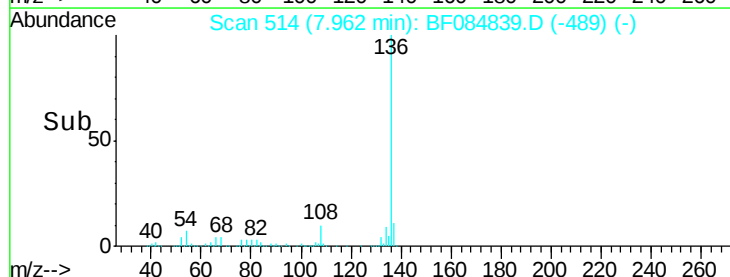
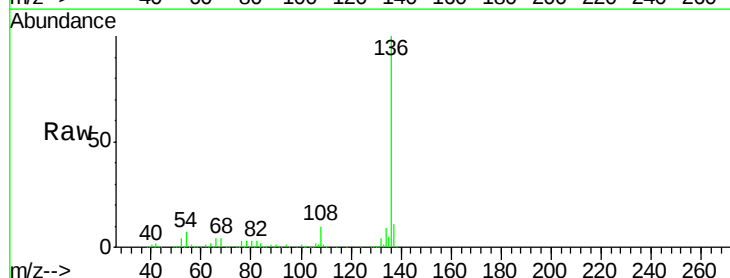
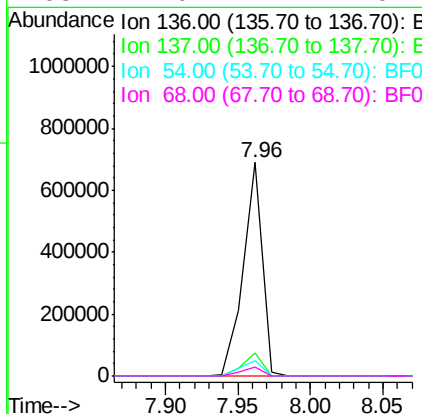
Ion Ratio Lower Upper

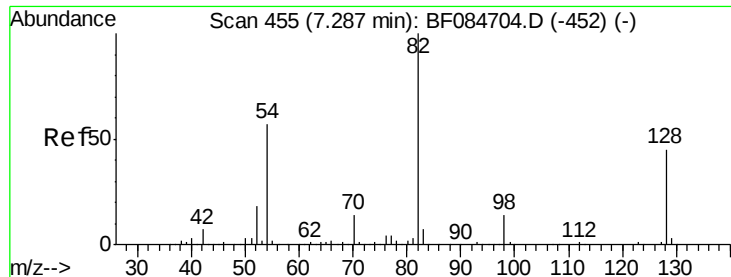
136 100

137 10.9 8.7 13.1

54 6.9 5.8 8.8

68 4.0 4.2 6.2#





#23

Nitrobenzene-d5

Concen: 99.26 ng

RT: 7.24 min Scan# 451

Delta R.T. -0.02 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

ClientSampleId :

S4-B012(5-7)

Tot Ion: 82 Resp: 1110717

Ion Ratio Lower Upper

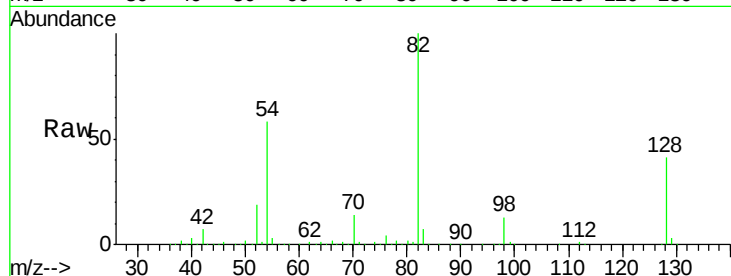
82 100

128 41.2 34.6 51.8

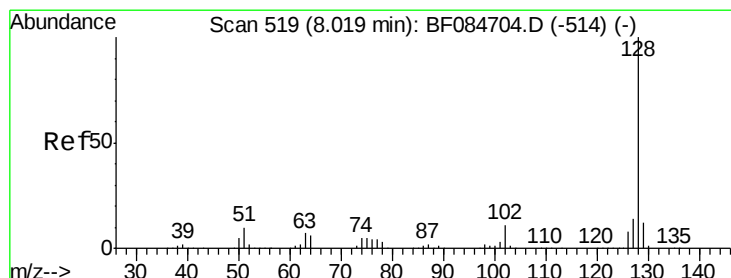
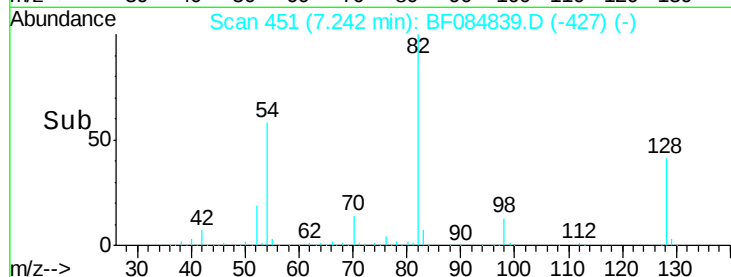
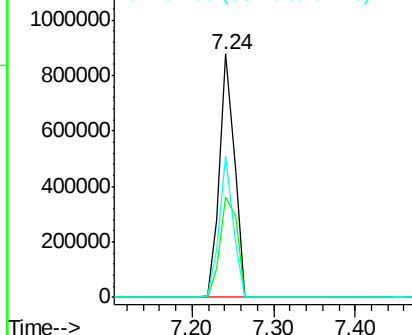
54 58.1 38.4 57.6#

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



#31

Naphthalene

Concen: 4.17 ng

RT: 7.98 min Scan# 516

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

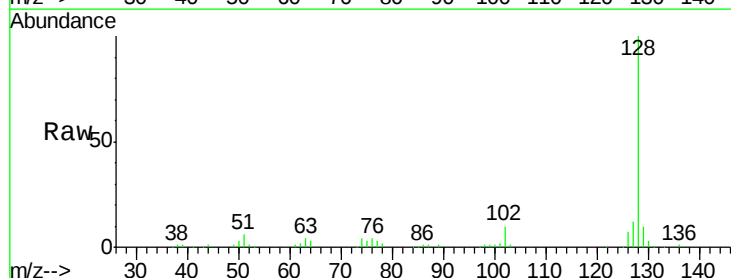
Tgt Ion: 128 Resp: 131711

Ion Ratio Lower Upper

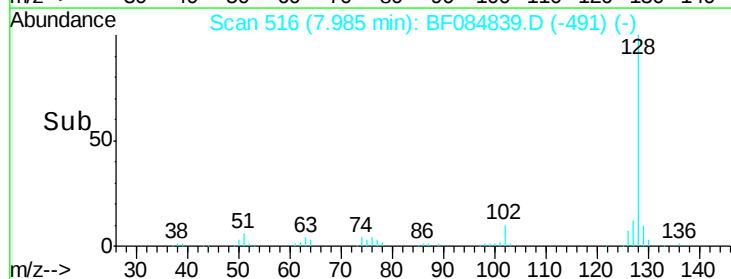
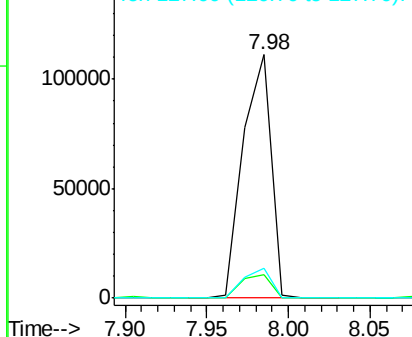
128 100

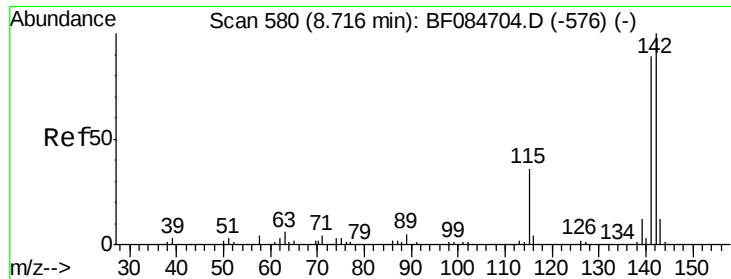
129 9.6 9.1 13.7

127 12.1 11.1 16.7



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E





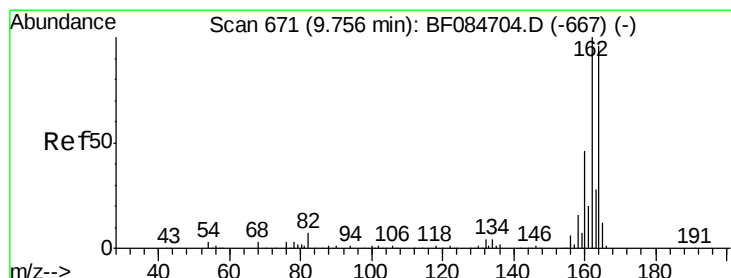
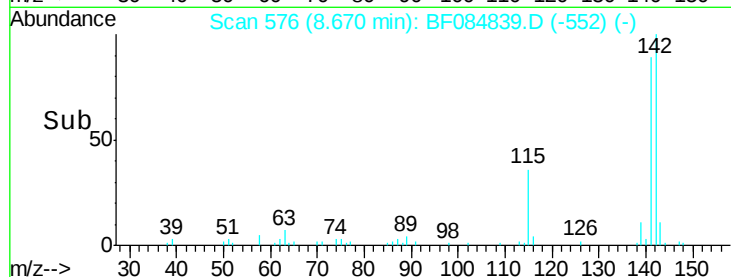
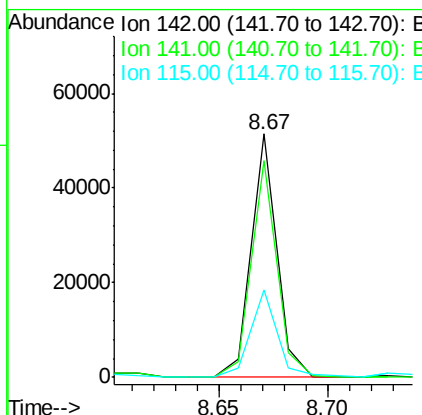
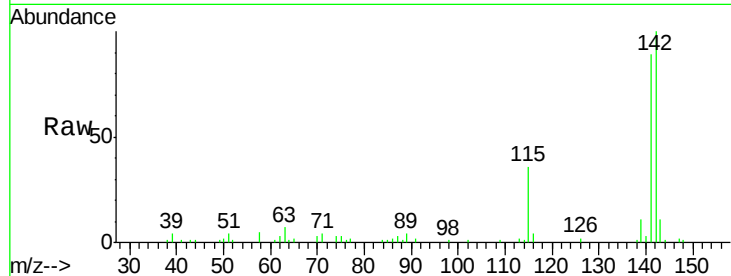
#37
2-Methylnaphthalene
Concen: 2.13 ng
RT: 8.67 min Scan# 576
Delta R.T. -0.02 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Instrument :
BNA_F
ClientSampleId :
S4-B012(5-7)

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.8	72.4	108.6
115	35.8	27.9	41.9

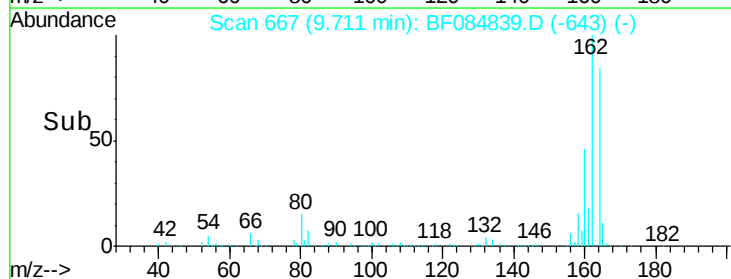
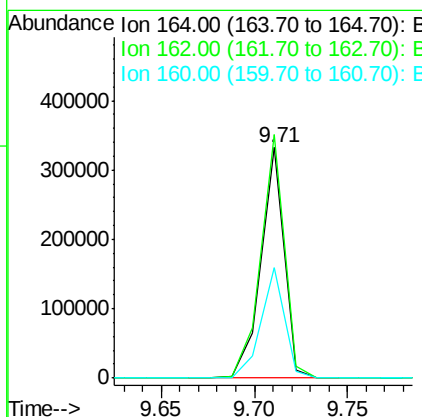
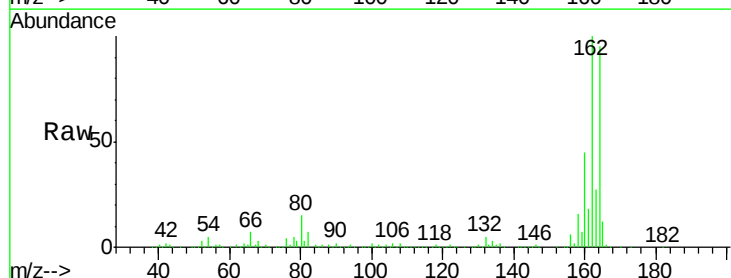
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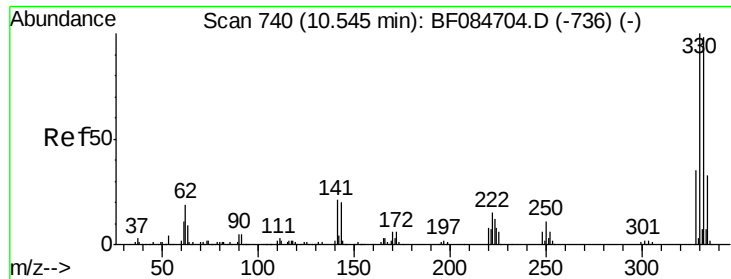
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#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.71 min Scan# 667
Delta R.T. -0.02 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.7	85.1	127.7
160	47.9	37.5	56.3





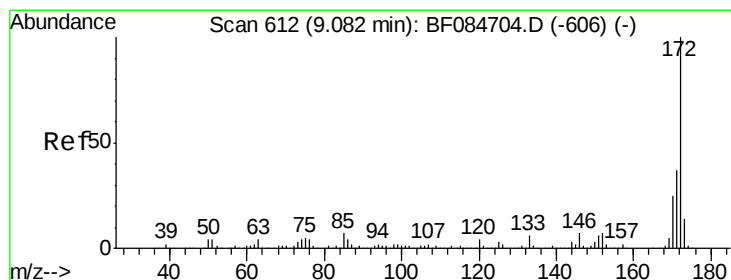
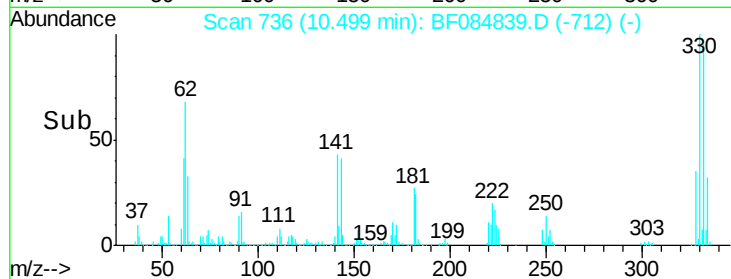
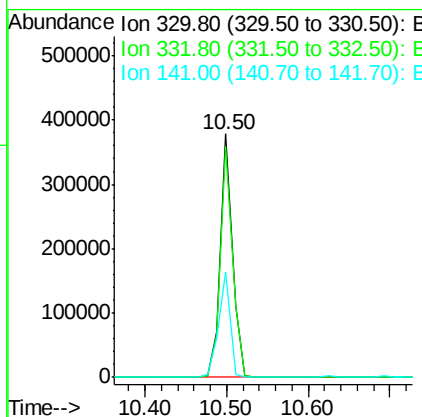
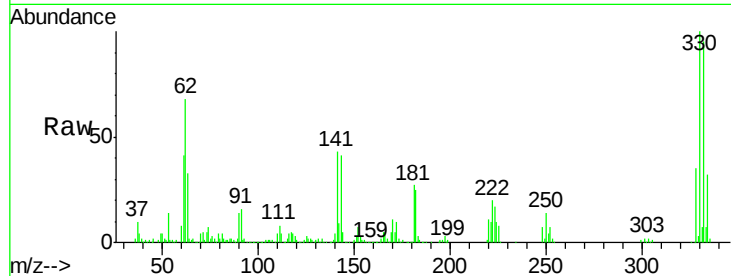
#41
 2,4,6-Tribromophenol
 Concen: 132.71 ng
 RT: 10.50 min Scan# 736
 Delta R.T. -0.02 min
 Lab File: BF084839.D
 Acq: 4 Feb 2016 20:12

Instrument :
 BNA_F
 ClientSampleId :
 S4-B012(5-7)

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.7	76.6	114.8
141	41.4	27.8	41.6

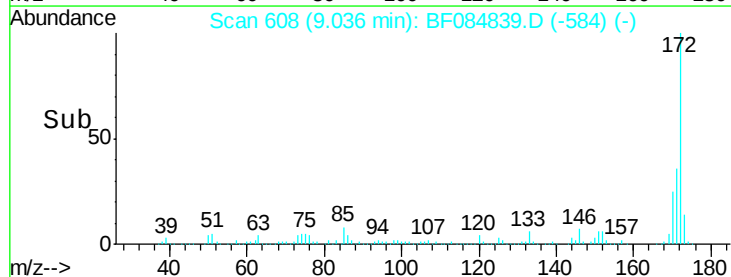
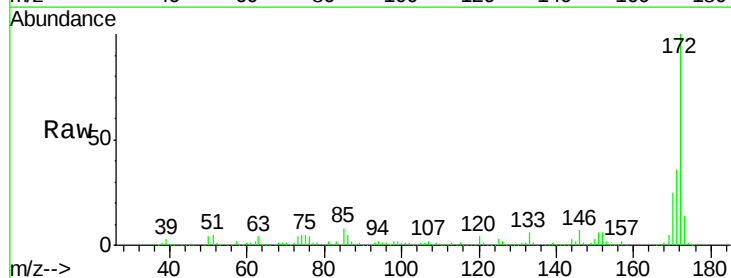
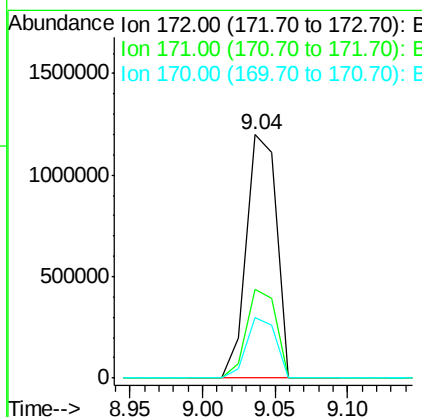
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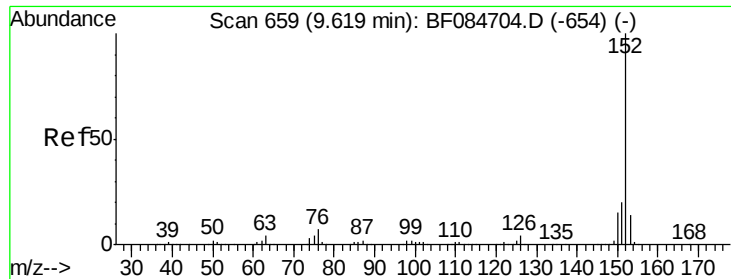
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#44
 2-Fluorobiphenyl
 Concen: 118.39 ng
 RT: 9.04 min Scan# 608
 Delta R.T. -0.02 min
 Lab File: BF084839.D
 Acq: 4 Feb 2016 20:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.9	43.3
170	24.8	18.6	27.8





#48

Acenaphthylene

Concen: 7.89 ng

RT: 9.57 min Scan# 655

Delta R.T. -0.02 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

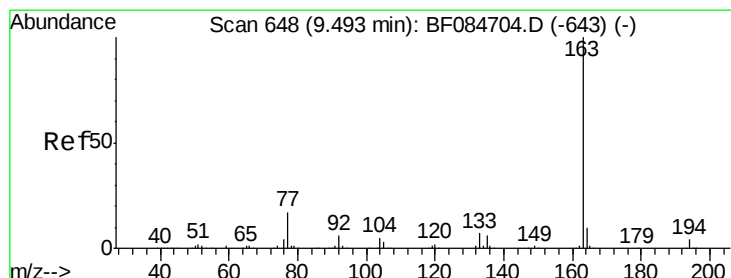
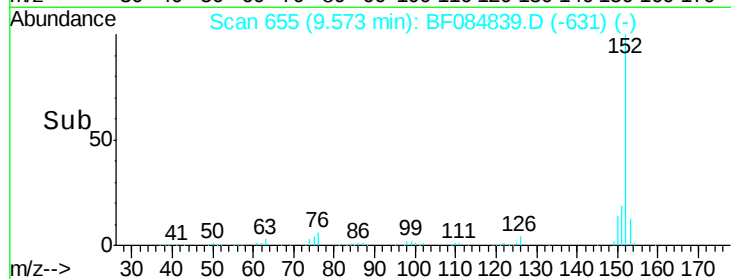
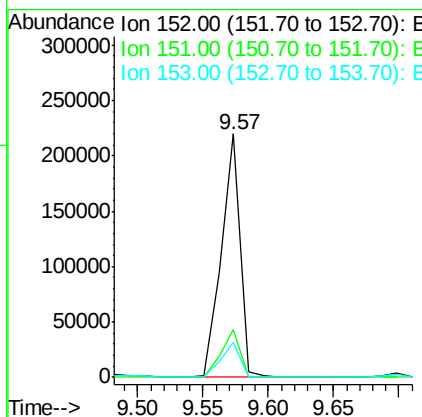
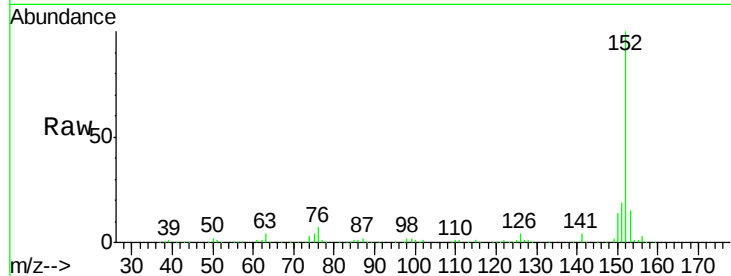
ClientSampleId :

S4-B012(5-7)

Tot Ion:	152	Resp:	222400
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.3	24.5
153	14.6	10.4	15.6

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#49

Dimethylphthalate

Concen: 15.75 ng

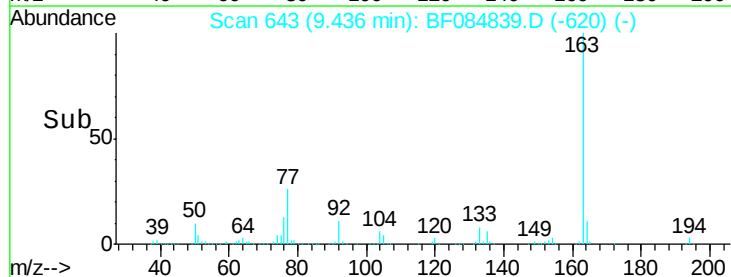
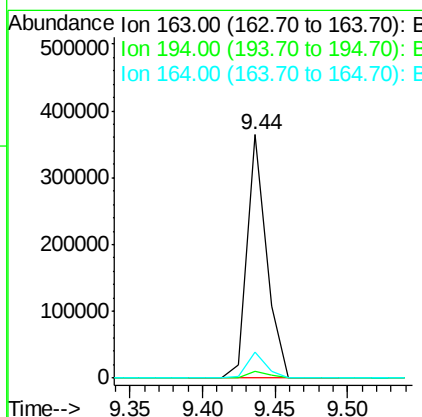
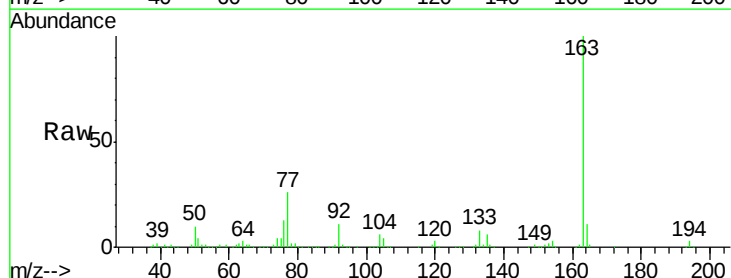
RT: 9.44 min Scan# 643

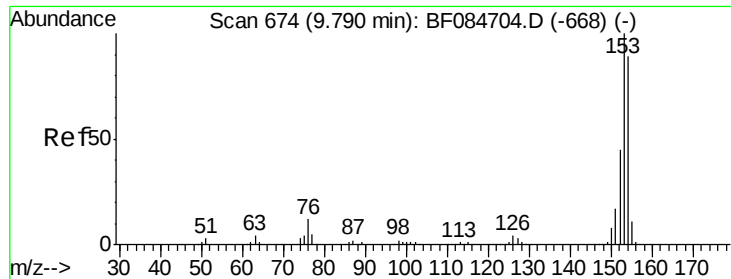
Delta R.T. -0.03 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Tgt Ion:	163	Resp:	339043
Ion Ratio	Lower	Upper	
163	100		
194	2.9	8.0	12.0#
164	10.6	8.0	12.0





#51

Acenaphthene

Concen: 6.68 ng

RT: 9.74 min Scan# 670

Delta R.T. -0.02 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

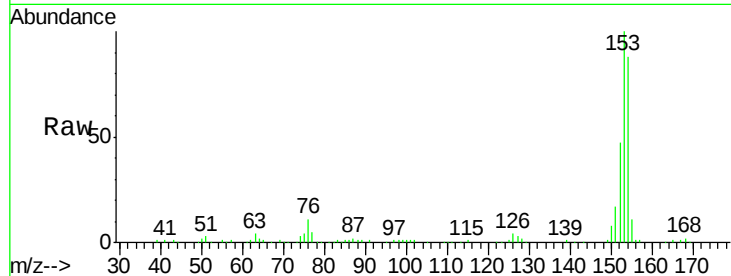
ClientSampleId :

S4-B012(5-7)

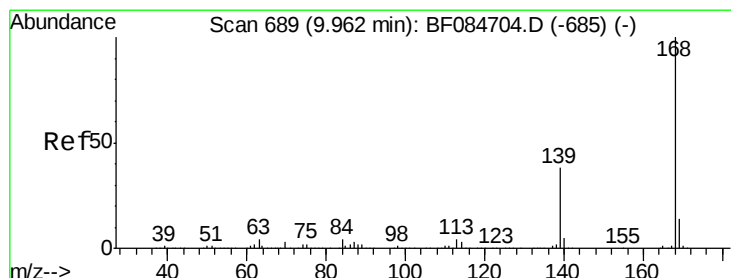
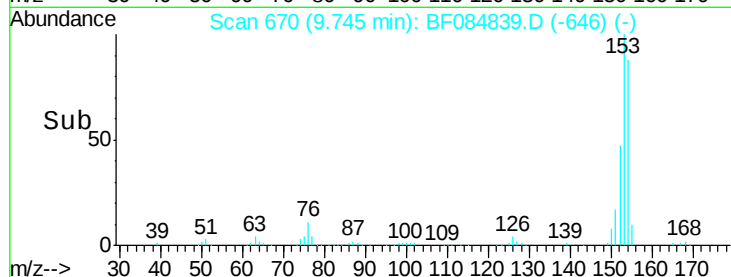
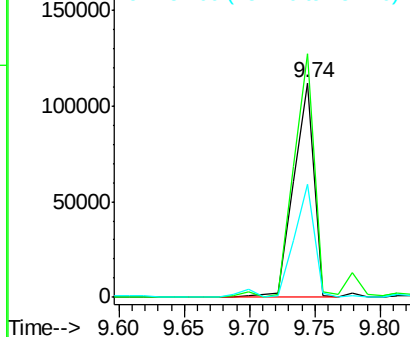
Tot Ion:	154	Resp:	122573
Ion Ratio	Lower	Upper	
154	100		
153	113.5	91.5	137.3
152	52.8	43.0	64.6

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



#54

Dibenzofuran

Concen: 7.87 ng

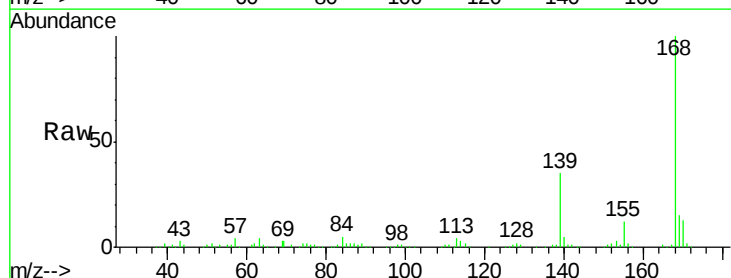
RT: 9.92 min Scan# 685

Delta R.T. -0.02 min

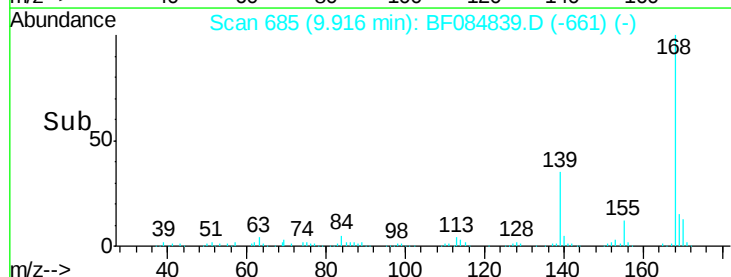
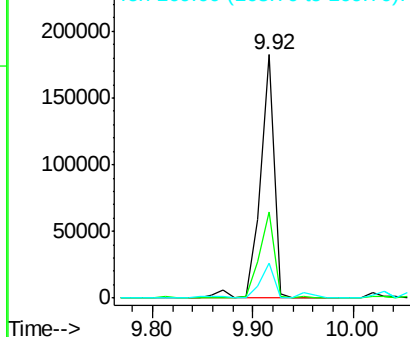
Lab File: BF084839.D

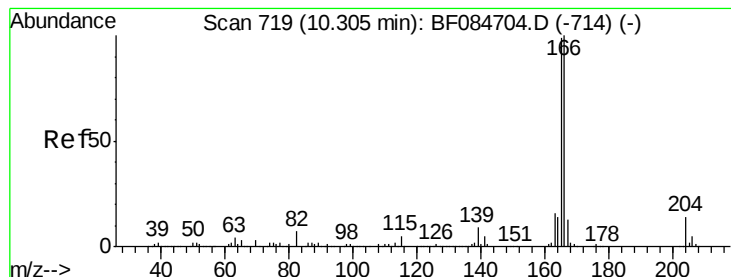
Acq: 4 Feb 2016 20:12

Tgt Ion:	168	Resp:	176401
Ion Ratio	Lower	Upper	
168	100		
139	35.3	30.5	45.7
169	14.6	10.4	15.6



Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 12.49 ng

RT: 10.26 min Scan# 715

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

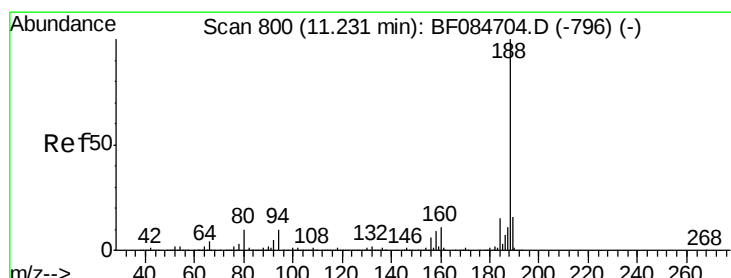
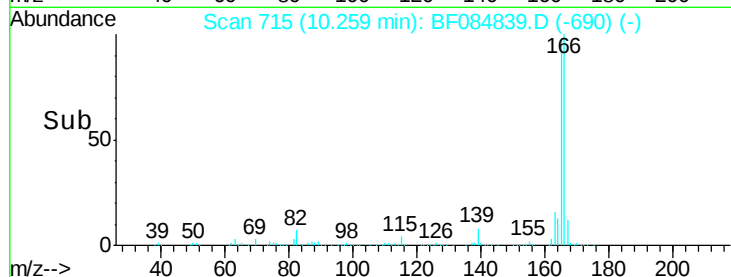
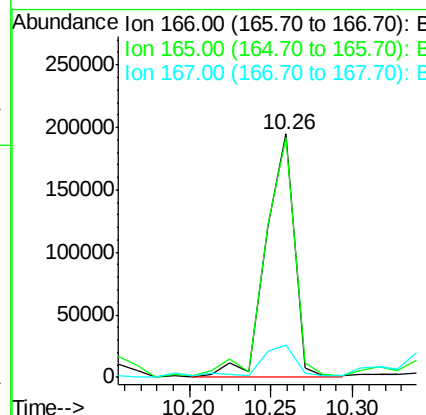
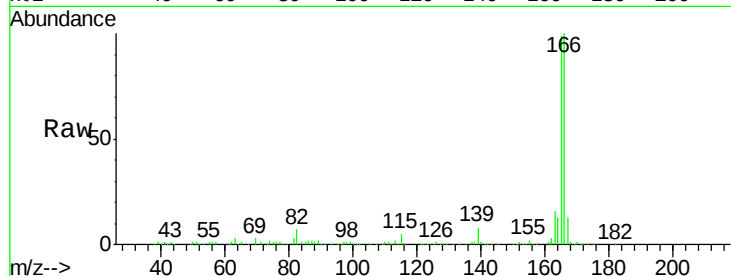
ClientSampleId :

S4-B012(5-7)

Tot Ion:	166	Resp:	233863
Ion Ratio	Lower	Upper	
166	100		
165	98.7	79.1	118.7
167	13.1	10.4	15.6

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#63

Phenanthrene-d10

Concen: 20.00 ng

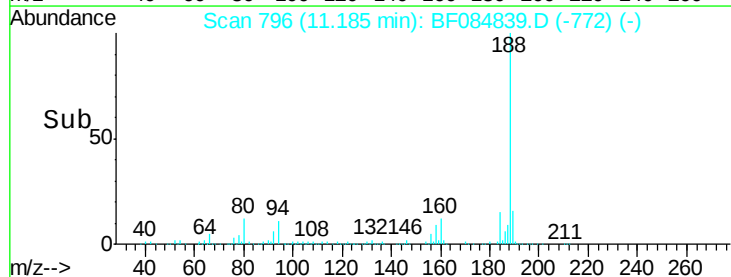
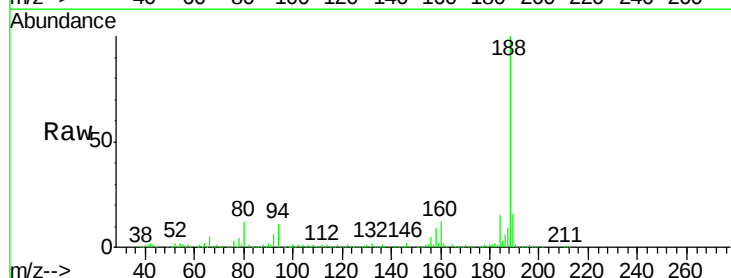
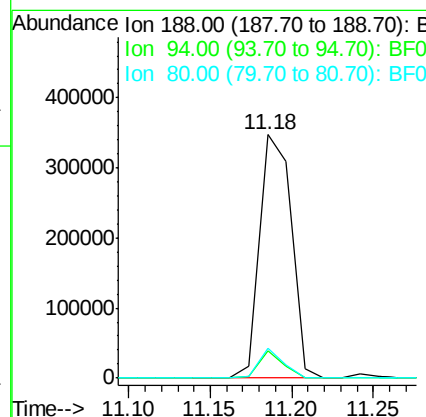
RT: 11.18 min Scan# 796

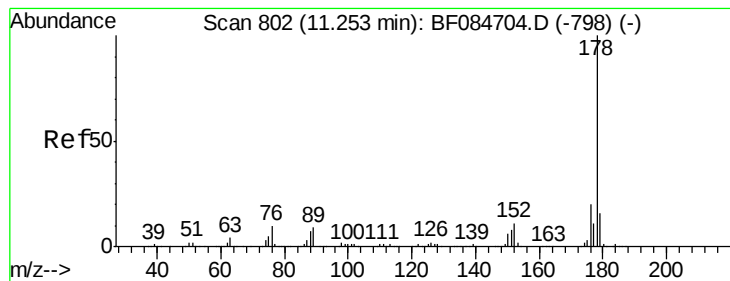
Delta R.T. -0.02 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Tgt Ion:	188	Resp:	472683
Ion Ratio	Lower	Upper	
188	100		
94	11.3	9.0	13.4
80	12.0	9.6	14.4





#70

Phenanthrene

Concen: 76.99 ng

RT: 11.22 min Scan# 799

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

ClientSampleId :

S4-B012(5-7)

Tot Ion:178 Resp: 2018340

Ion Ratio Lower Upper

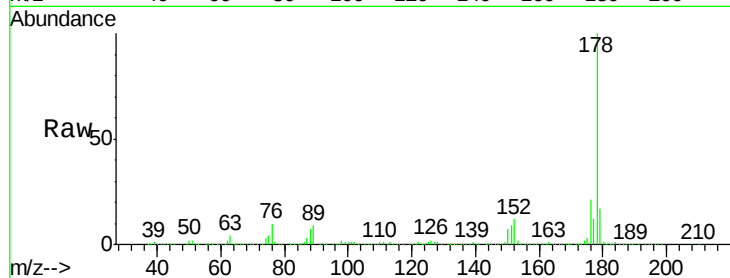
178 100

176 21.0 15.3 22.9

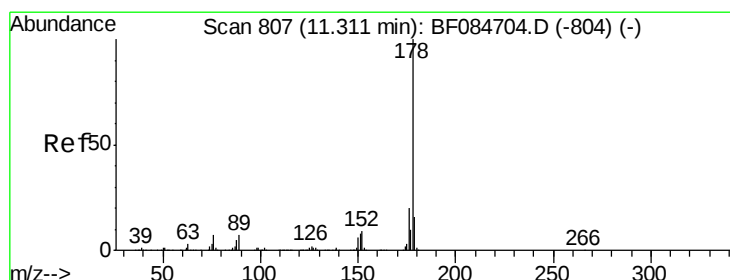
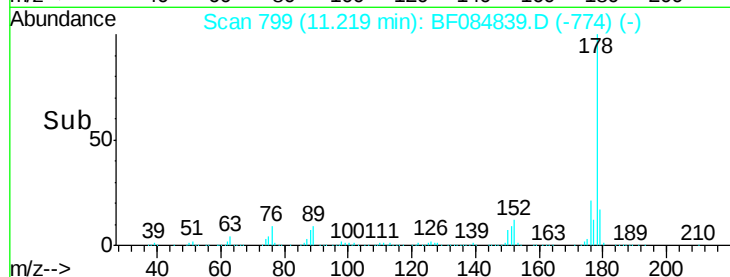
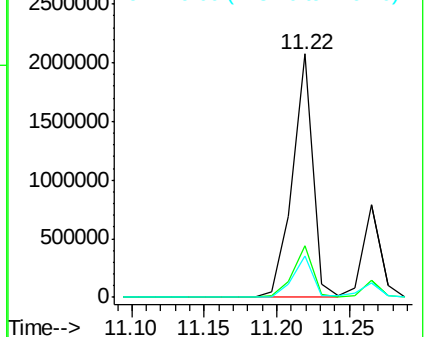
179 17.0 12.0 18.0

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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: 25.57 ng

RT: 11.26 min Scan# 803

Delta R.T. -0.02 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

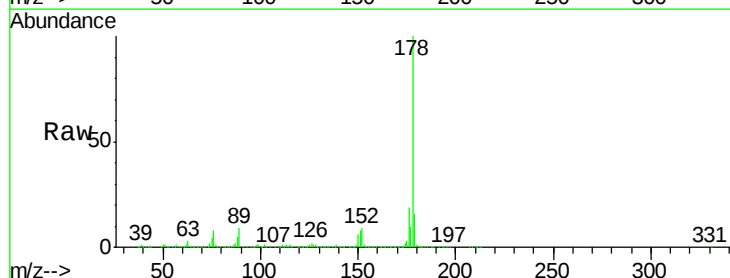
Tgt Ion:178 Resp: 675441

Ion Ratio Lower Upper

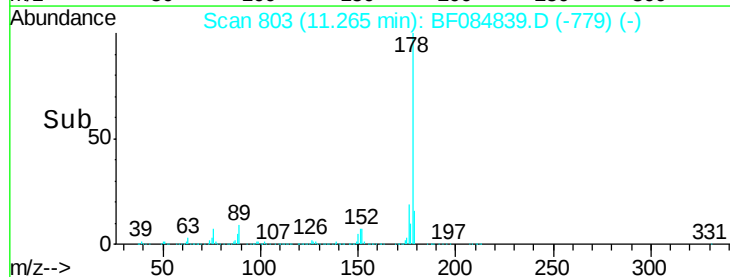
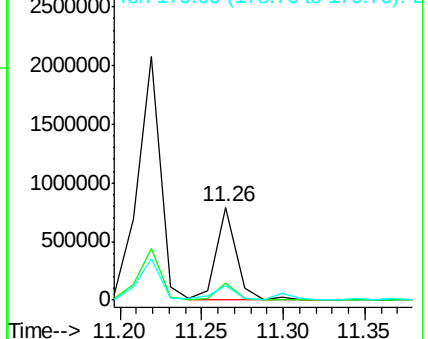
178 100

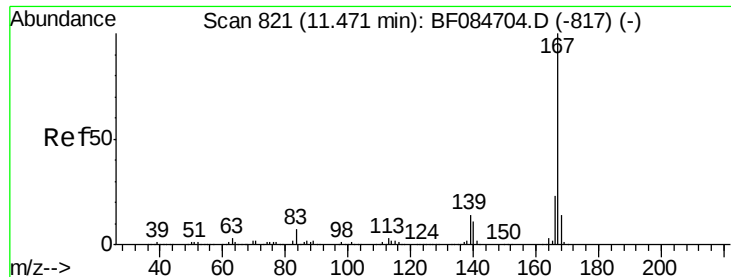
176 19.0 15.4 23.0

179 16.0 12.5 18.7



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





#72

Carbazole

Concen: 5.64 ng

RT: 11.42 min Scan# 817

Delta R.T. -0.02 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

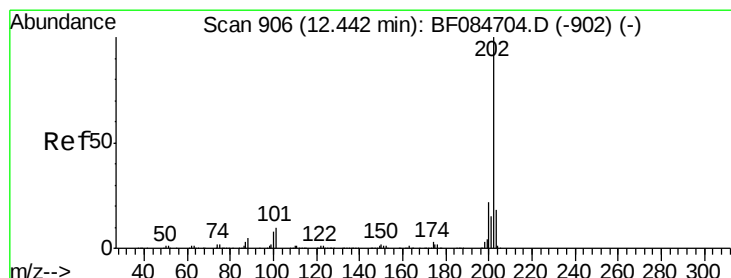
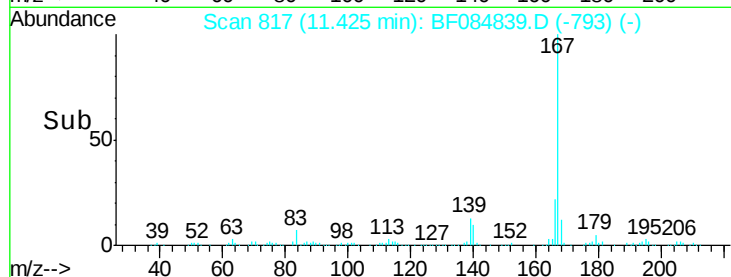
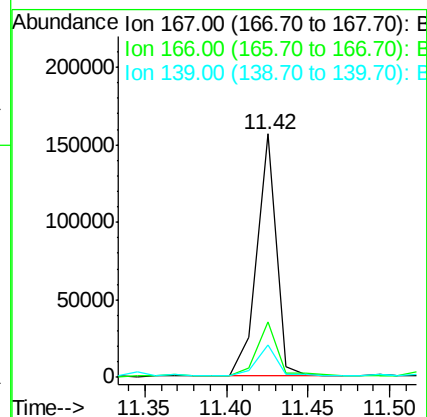
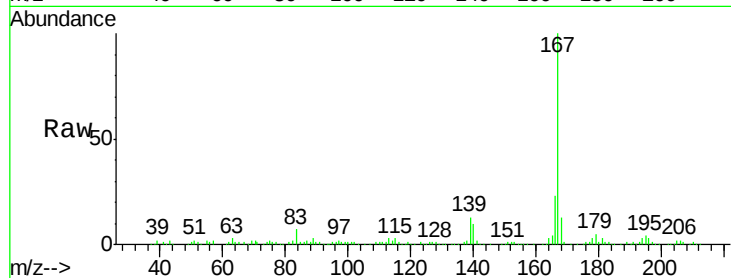
ClientSampleId :

S4-B012(5-7)

Tot Ion:	167	Resp:	129979
Ion Ratio	Lower	Upper	
167	100		
166	22.7	17.6	26.4
139	13.3	11.8	17.8

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#74

Fluoranthene

Concen: 106.25 ng

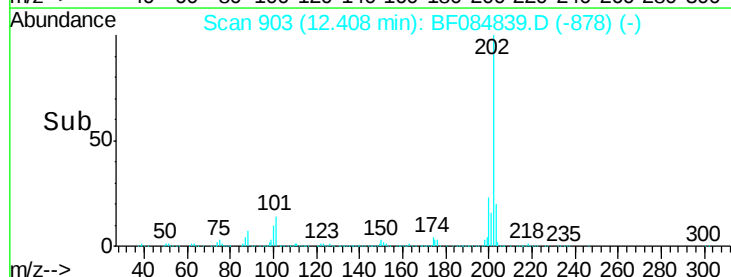
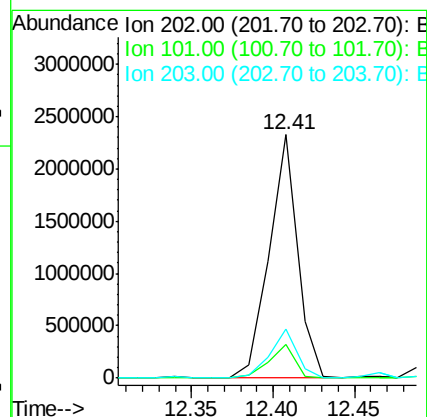
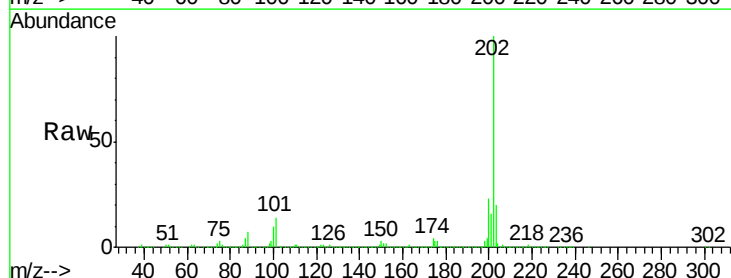
RT: 12.41 min Scan# 903

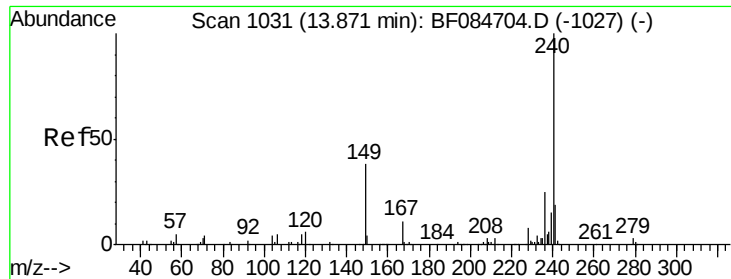
Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Tgt Ion:	202	Resp:	2819398
Ion Ratio	Lower	Upper	
202	100		
101	13.9	0.0	32.8
203	20.0	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.83 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

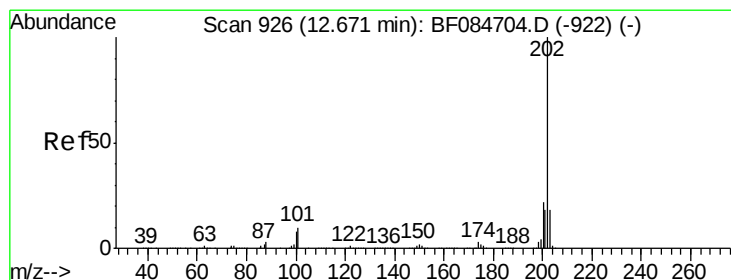
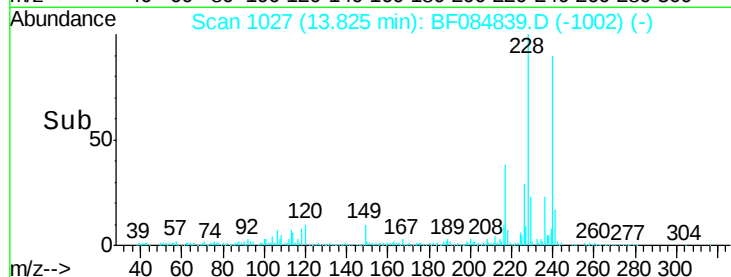
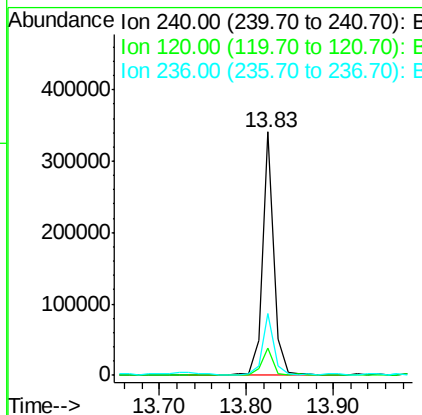
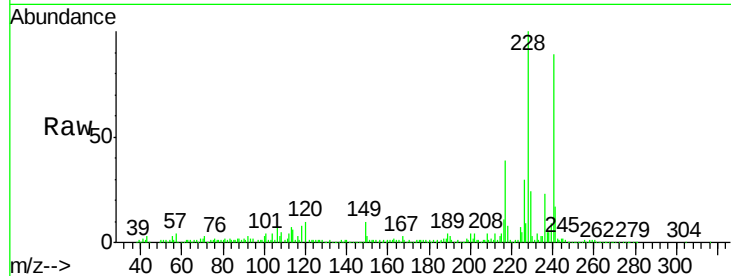
ClientSampleId :

S4-B012(5-7)

Tot Ion:	240	Resp:	308906
Ion Ratio	Lower	Upper	
240	100		
120	11.1	9.5	14.3
236	25.2	20.6	31.0

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#77

Pyrene

Concen: 111.24 ng

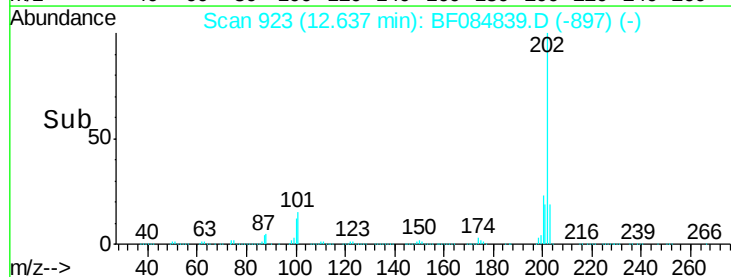
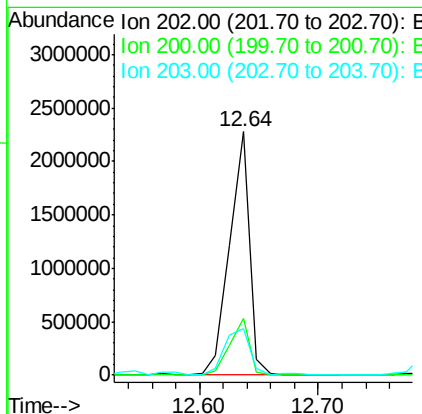
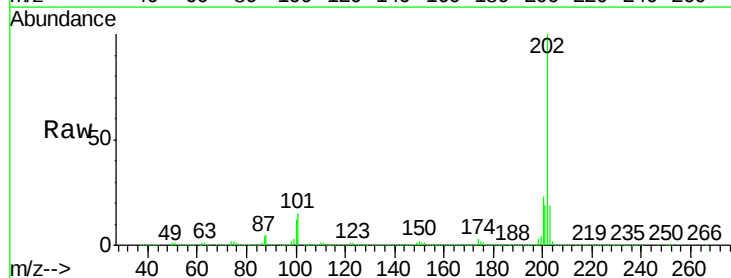
RT: 12.64 min Scan# 923

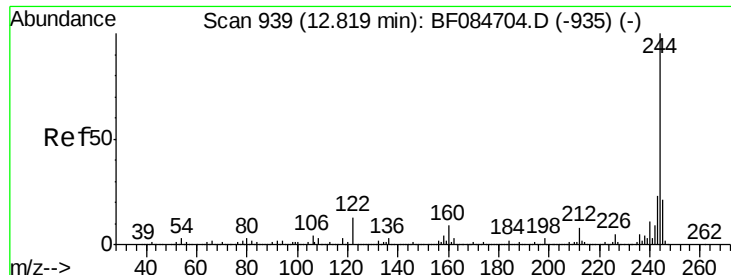
Delta R.T. 0.00 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Tgt Ion:	202	Resp:	2630890
Ion Ratio	Lower	Upper	
202	100		
200	23.3	17.2	25.8
203	19.3	14.3	21.5





#78

Terphenyl-d14

Concen: 94.44 ng

RT: 12.79 min Scan# 936

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

ClientSampleId :

S4-B012(5-7)

Tot Ion:244 Resp: 1287365

Ion Ratio Lower Upper

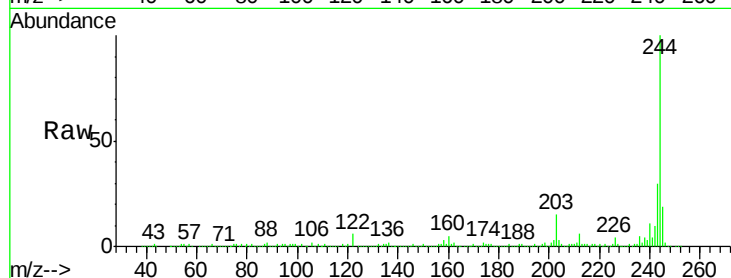
244 100

212 6.4 5.7 8.5

122 5.9 7.4 11.0#

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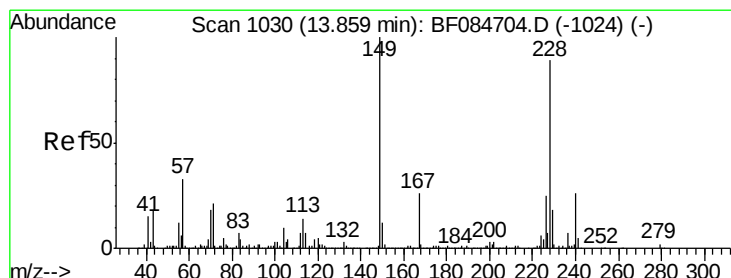
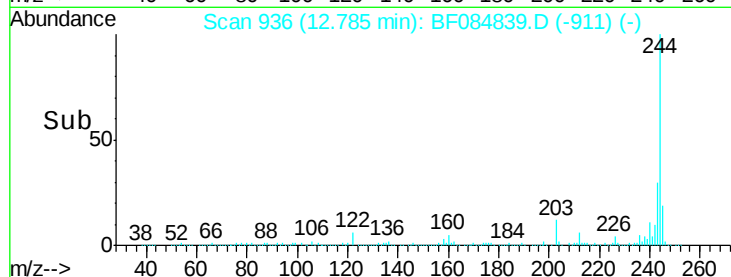
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

12.79

Time--> 12.60 12.70 12.80 12.90



#80

Benzo(a)anthracene

Concen: 68.10 ng

RT: 13.81 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

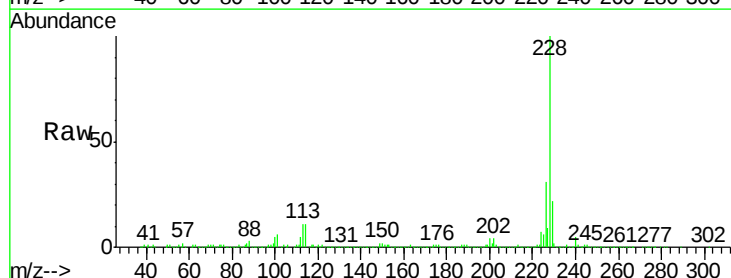
Tgt Ion:228 Resp: 1305585

Ion Ratio Lower Upper

228 100

226 31.2 21.8 32.6

229 21.7 15.8 23.8



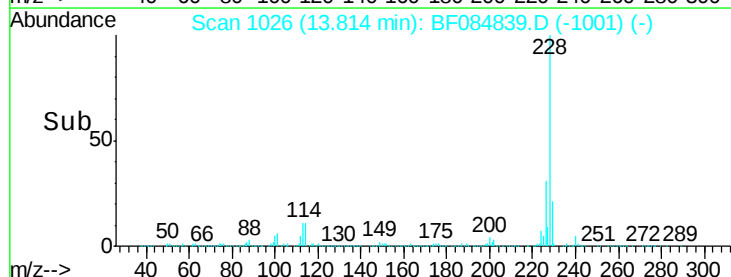
Abundance Ion 228.00 (227.70 to 228.70): E

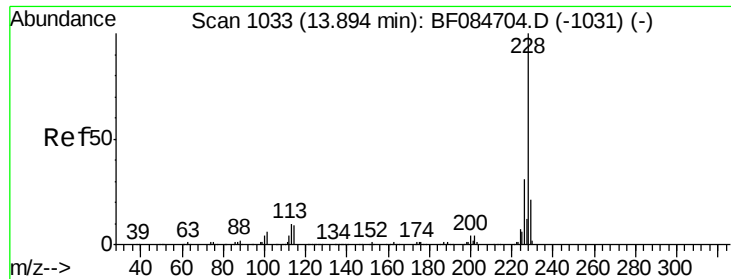
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

13.81

Time--> 13.70 13.80





#82

Chrvsene

Concen: 40.17 ng/ml

RT: 13.85 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Instrument :

BNA_F

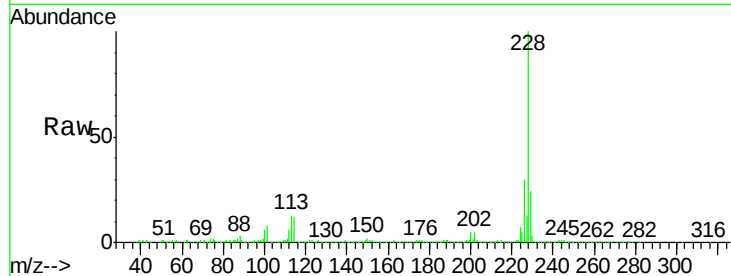
ClientSampleId :

S4-B012(5-7)

Tot Ion:	228	Resp:	746764
Ion Ratio	Lower	Upper	
228	100		
226	30.5	24.3	36.5
229	24.0	16.1	24.1

Manual Integrations
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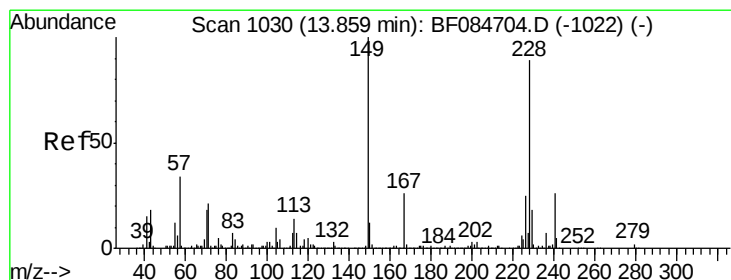
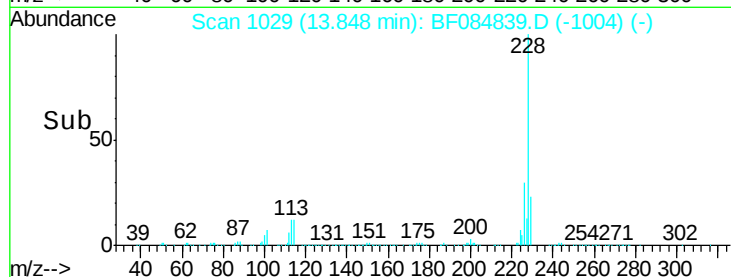
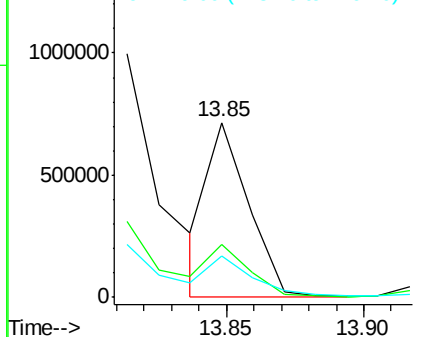
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 3.47 ng/ml

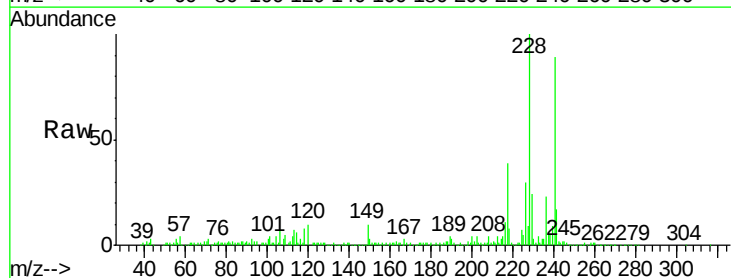
RT: 13.83 min Scan# 1027

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

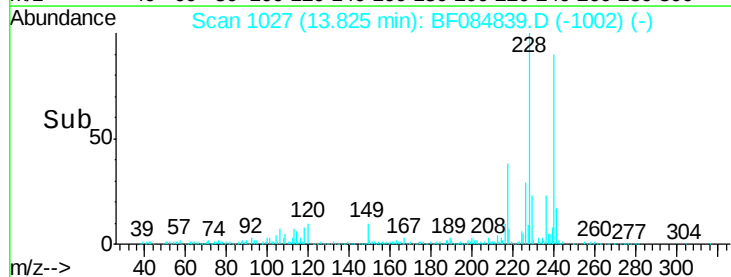
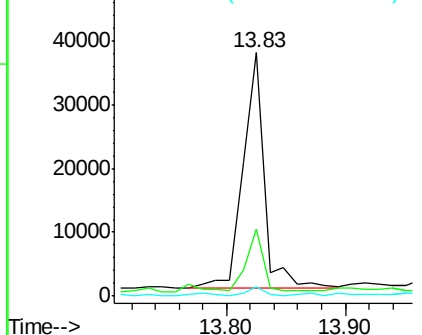
Tgt Ion:	149	Resp:	46279
Ion Ratio	Lower	Upper	
149	100		
167	27.3	19.7	29.5
279	3.7	1.8	2.6#

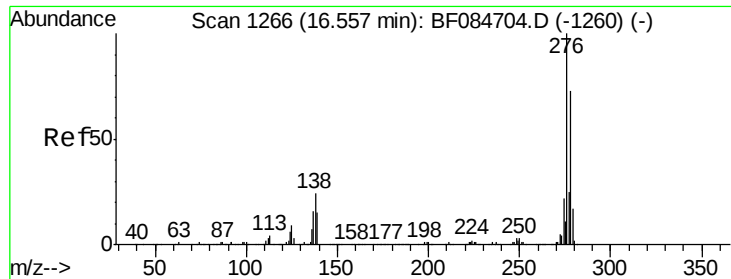


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





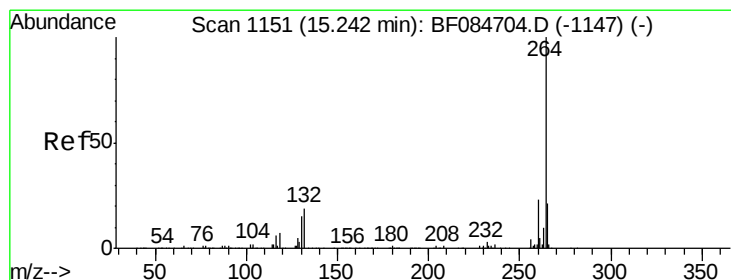
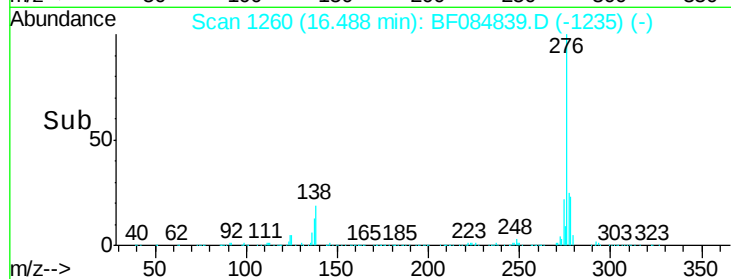
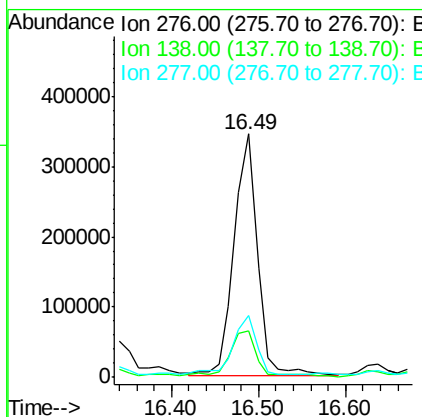
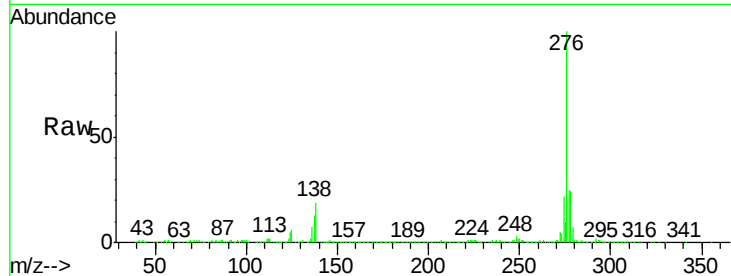
#85
Indeno(1,2,3-cd)pyrene
Concen: 44.31 ng
RT: 16.49 min Scan# 1260
Delta R.T. -0.01 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Instrument :
BNA_F
ClientSampleId :
S4-B012(5-7)

Tot Ion	Ratio	Lower	Upper
276	100		
138	21.6	20.6	30.8
277	26.0	20.1	30.1

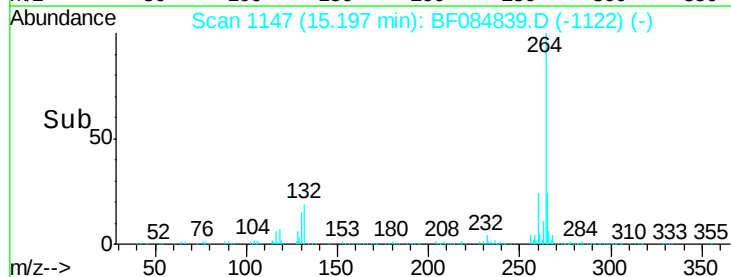
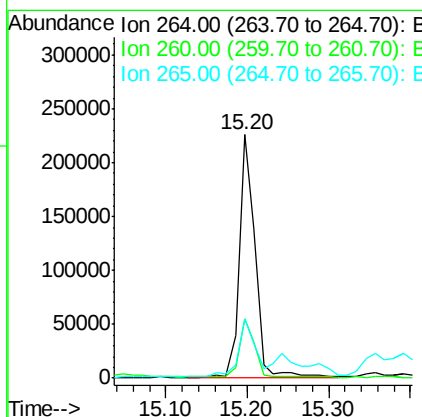
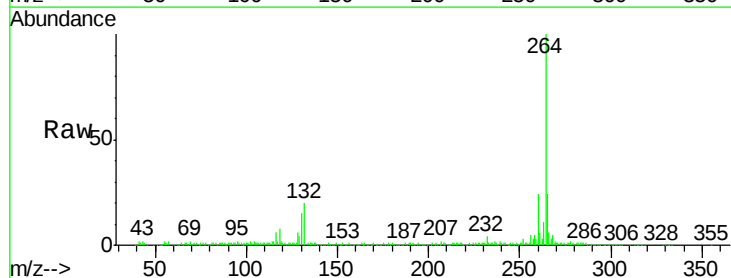
Manual Integrations
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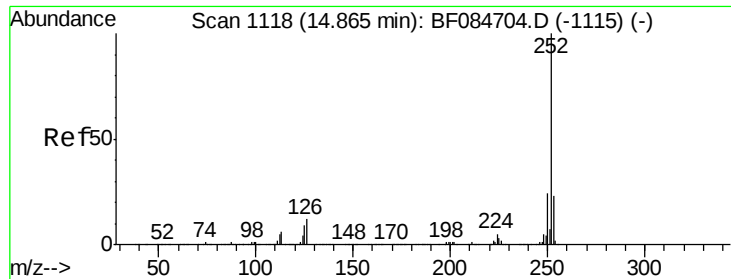
mohammad
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#86
Perylene-d12
Concen: 20.00 ng
RT: 15.20 min Scan# 1147
Delta R.T. -0.01 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.2
265	24.1	17.8	26.6





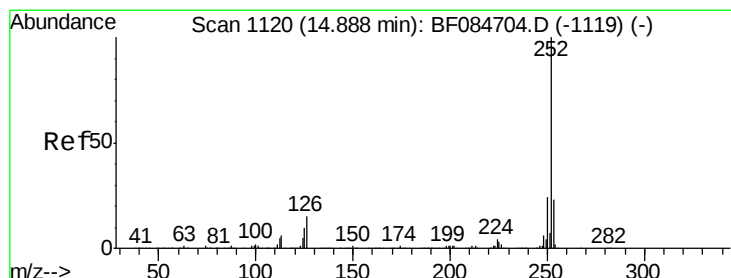
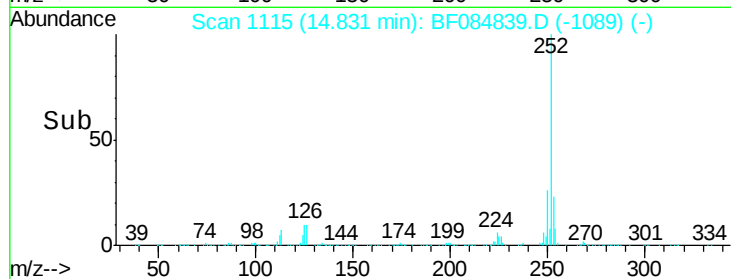
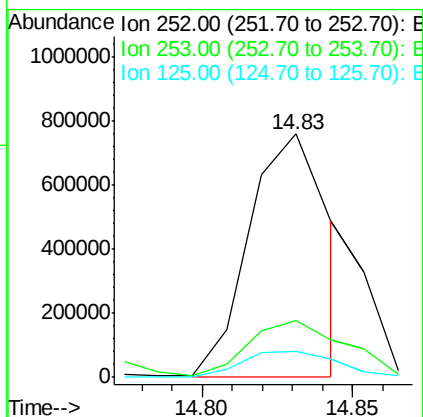
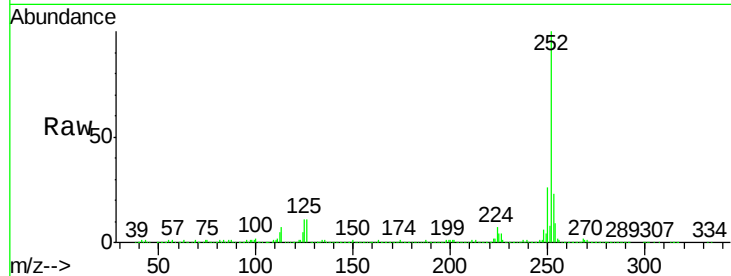
#87
Benzo(b)fluoranthene
Concen: 68.67 ng m
RT: 14.83 min Scan# 1115
Delta R.T. 0.00 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Instrument :
BNA_F
ClientSampleId :
S4-B012(5-7)

Tot Ion:252 Resp: 1389869
Ion Ratio Lower Upper
252 100
253 23.4 17.3 25.9
125 10.7 6.5 9.7#

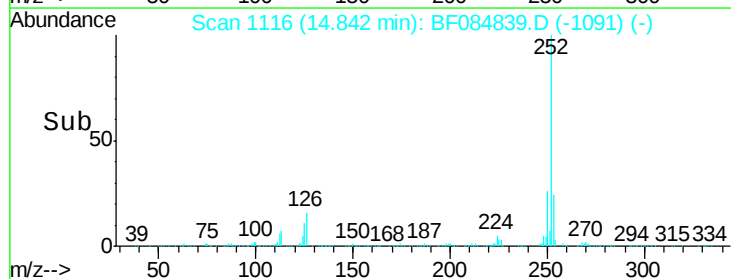
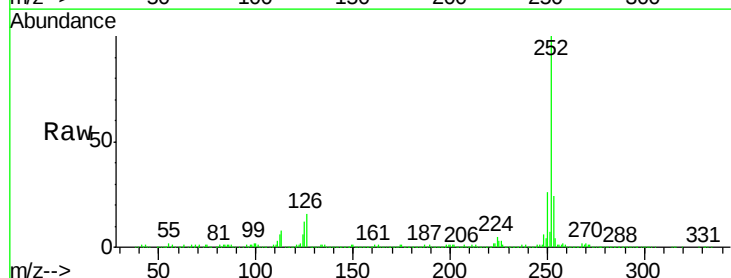
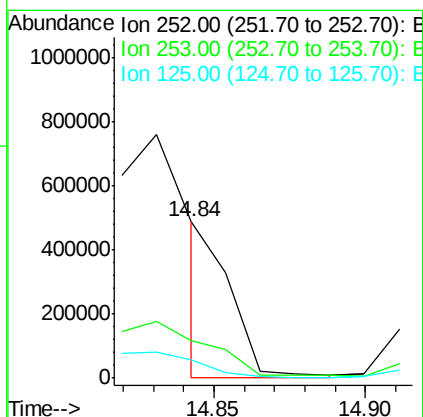
Manual Integrations
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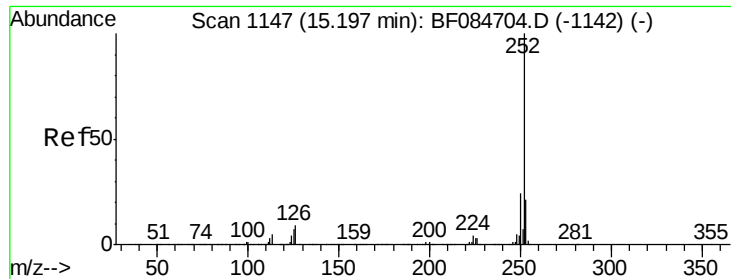
mohammad
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#88
Benzo(k)fluoranthene
Concen: 15.28 ng m
RT: 14.84 min Scan# 1116
Delta R.T. -0.01 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Tgt Ion:252 Resp: 255703
Ion Ratio Lower Upper
252 100
253 24.0 18.1 27.1
125 11.8 9.0 13.6





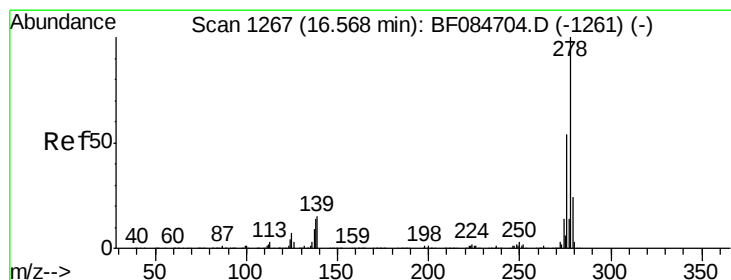
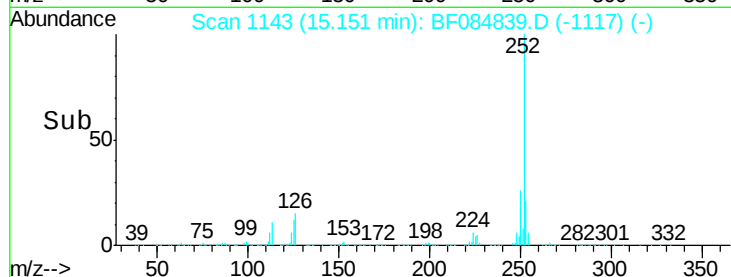
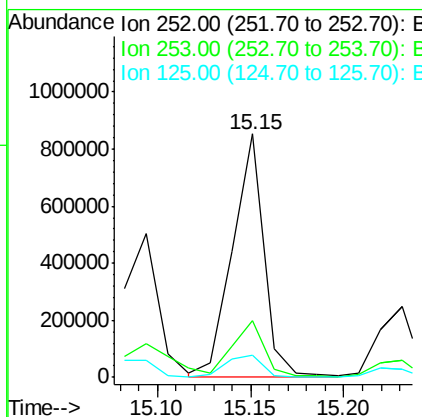
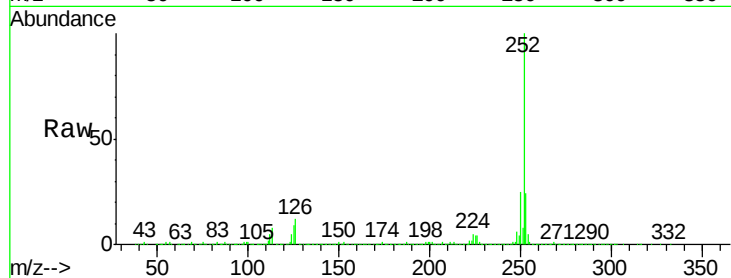
#89
Benzo(a)pyrene
Concen: 57.83 ng
RT: 15.15 min Scan# 1143
Delta R.T. 0.00 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Instrument :
BNA_F
ClientSampleId :
S4-B012(5-7)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.3	25.9
125	9.4	7.0	10.4

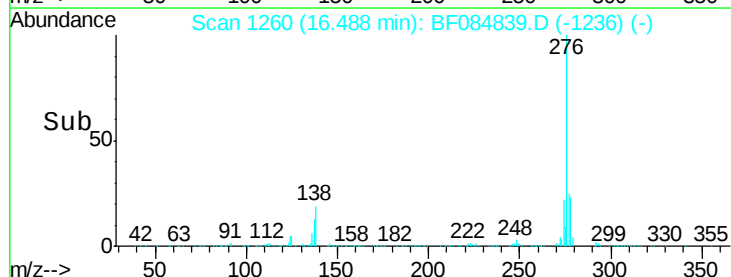
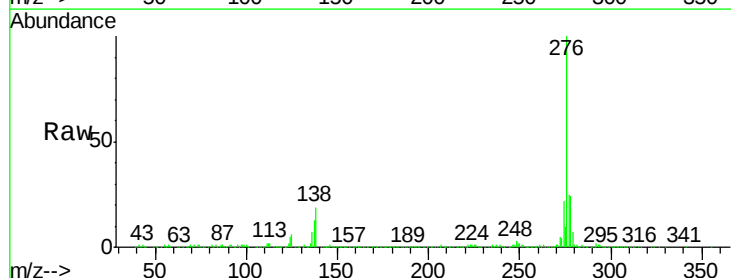
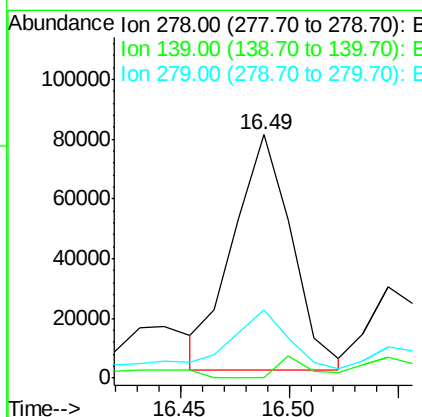
Manual Integrations
APPROVED

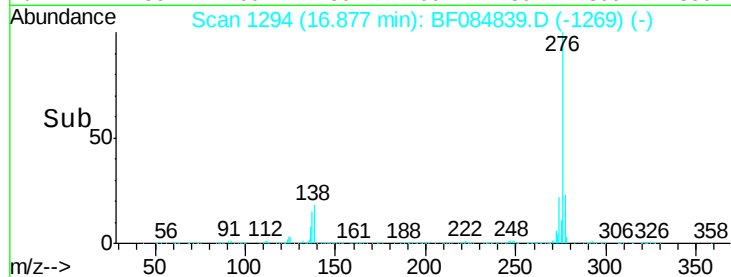
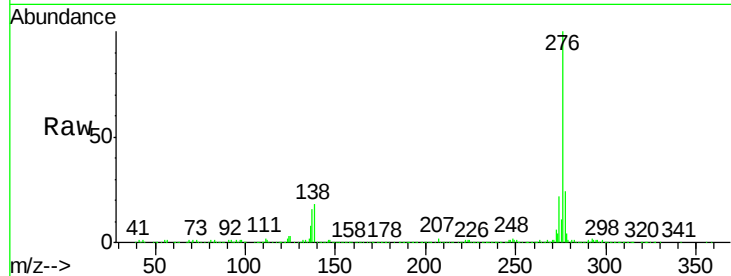
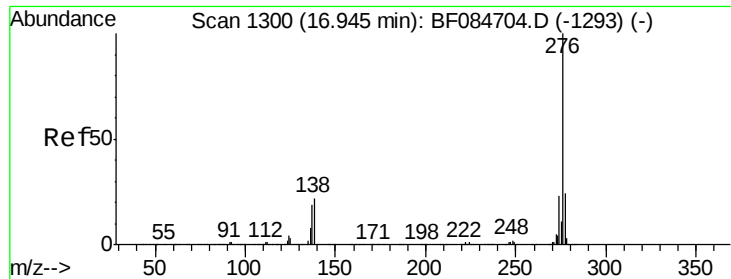
mohammad
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#90
Dibenzo(a,h)anthracene
Concen: 10.07 ng m
RT: 16.49 min Scan# 1260
Delta R.T. -0.02 min
Lab File: BF084839.D
Acq: 4 Feb 2016 20:12

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.0	22.4#
279	27.8	18.9	28.3





#91

Benzo(a,h,i)perylene

Concen: 41.62 ng

RT: 16.88 min Scan# 1294

Delta R.T. -0.01 min

Lab File: BF084839.D

Acq: 4 Feb 2016 20:12

Tot Ion:	276	Resp:	608570
Ion Ratio		Lower	Upper
276	100		
277	24.3	18.8	28.2
138	18.4	17.8	26.6

Instrument :

BNA_F

ClientSampleId :

S4-B012(5-7)

Manual Integrations
APPROVED

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