

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
 Data File : BF098780.D
 Acq On : 25 Sep 2017 13:45
 Operator : SJ/JU
 Sample : I5362-05
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-C-COMP

Manual Integrations
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Quant Time: Sep 26 06:53:06 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.92	152	154389	20.00	ng	0.00
21) Naphthalene-d8	8.20	136	618066	20.00	ng	0.00
38) Acenaphthene-d10	9.95	164	253781	20.00	ng	-0.01
63) Phenanthrene-d10	11.44	188	367382	20.00	ng	0.00
75) Chrysene-d12	14.09	240	265650	20.00	ng	0.00
86) Perylene-d12	15.58	264	223474	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.53	112	888135	91.58	ng	0.00
7) Phenol-d6	6.54	99	1071858	89.59	ng	0.00
23) Nitrobenzene-d5	7.47	82	643857	66.81	ng	-0.01
41) 2,4,6-Tribromophenol	10.74	330	167572	80.69	ng	-0.01
44) 2-Fluorobiphenyl	9.27	172	1082694	71.22	ng	0.00
78) Terphenyl-d14	13.03	244	693513	59.37	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.22	128	357686	12.322	ng	99
37) 2-Methylnaphthalene	8.91	142	189900	10.063	ng	99
45) 1,1'-Biphenyl	9.37	154	65450	3.001	ng	97
49) Dimethylphthalate	9.66	163	140272	7.323	ng	98
51) Acenaphthene	9.99	154	167268	10.533	ng	97
54) Dibenzofuran	10.16	168	232634	11.003	ng	99
57) Fluorene	10.50	166	111173	6.542	ng	97
70) Phenanthrene	11.47	178	1670797	84.963	ng	99
71) Anthracene	11.52	178	397851	19.773	ng	99
72) Carbazole	11.67	167	166999	8.475	ng	99
74) Fluoranthene	12.66	202	1972906	99.077	ng	99
77) Pyrene	12.89	202	1727722	85.291	ng	99
80) Benzo(a)anthracene	14.08	228	981497	61.016	ng	97
82) Chrysene	14.12	228	888048	57.988	ng	98
85) Indeno(1,2,3-cd)pyrene	17.09	276	298161	24.339	ng	99
87) Benzo(b)fluoranthene	15.14	252	995824m	72.476	ng	
88) Benzo(k)fluoranthene	15.17	252	268192m	19.762	ng	
89) Benzo(a)pyrene	15.52	252	627302	49.737	ng	96
90) Dibenzo(a,h)anthracene	17.10	278	81936	8.118	ng	# 87
91) Benzo(a,h,i)perylene	17.55	276	289557	29.021	ng	94

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

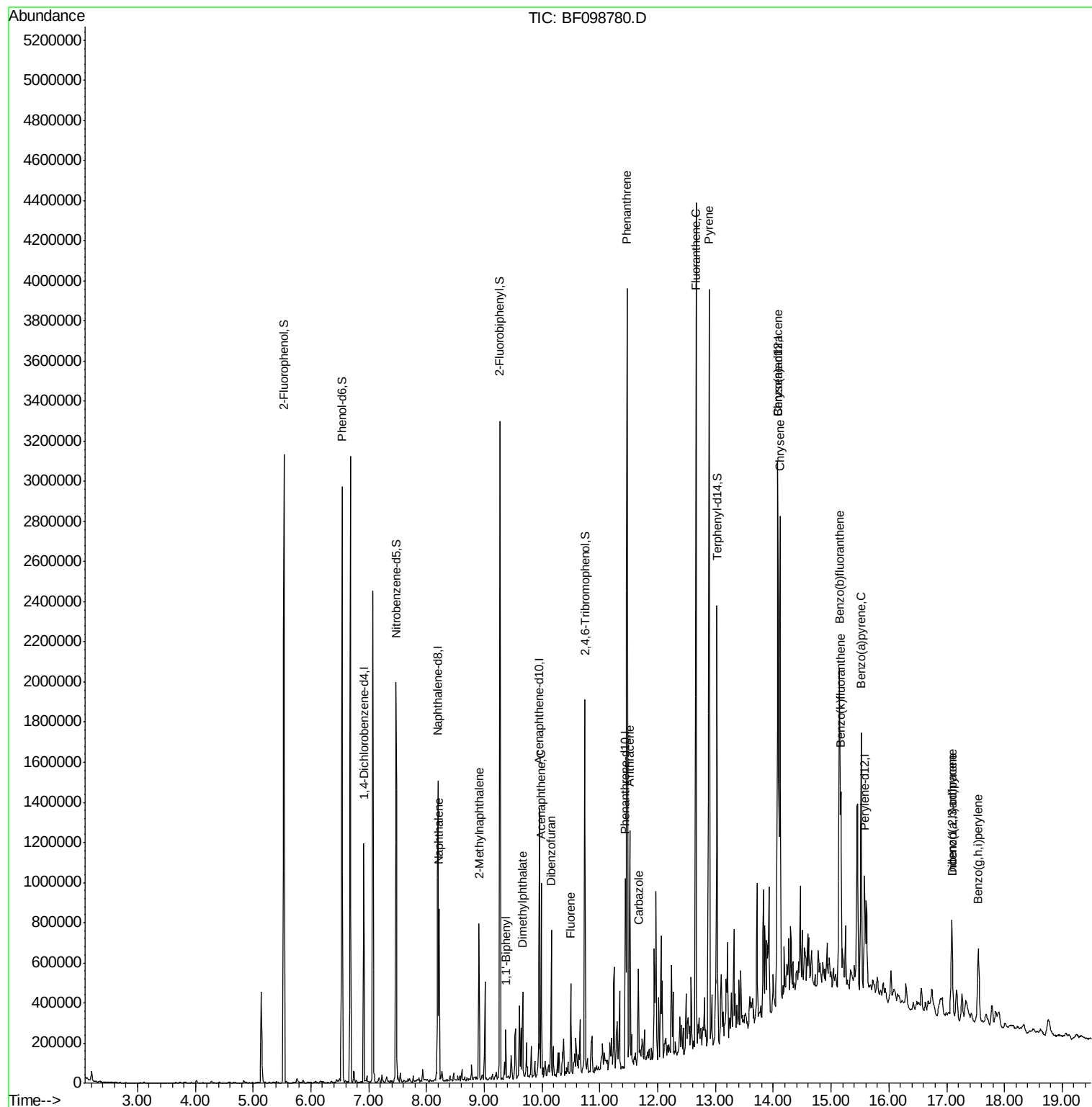
Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
Data File : BF098780.D
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ALS Vial : 9 Sample Multiplier: 1

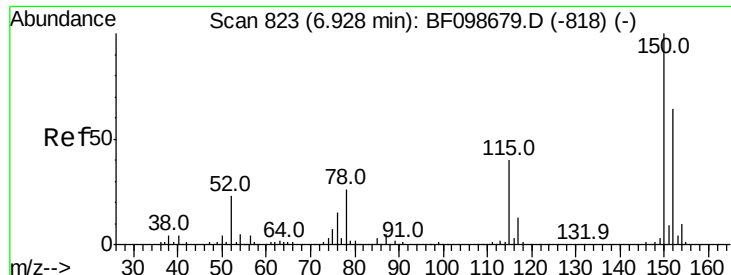
Instrument :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Sep 23 13:50:58 2017
Response via : Initial Calibration





#1

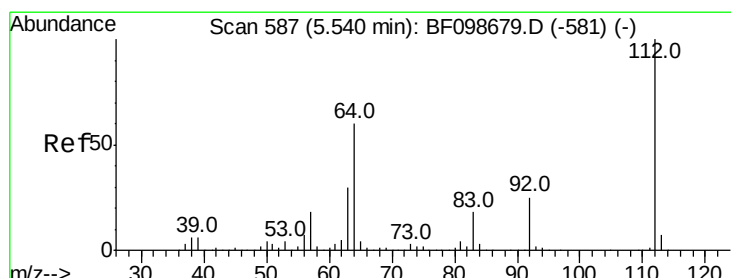
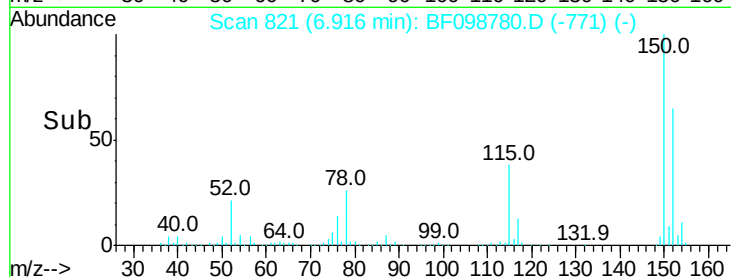
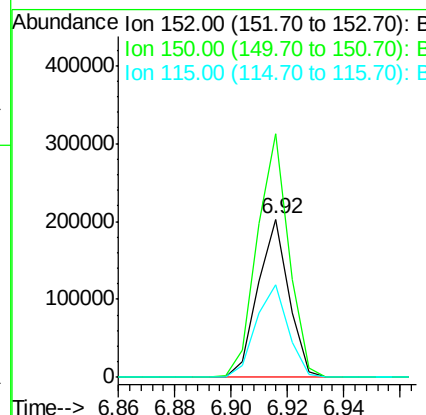
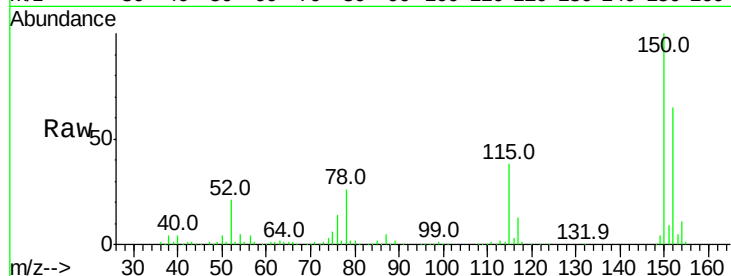
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.92 min Scan# 821
Delta R.T. -0.01 min
Lab File: BF098780.D
Acq: 25 Sep 2017 13:45

Instrument :
BNA_F
ClientSampleId :
SP-2-C-COMP

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.3	124.6	186.8
115	58.8	50.1	75.1

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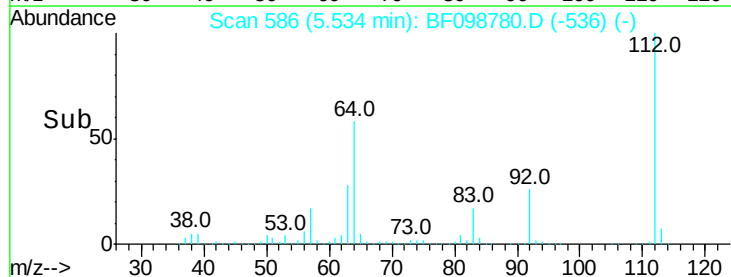
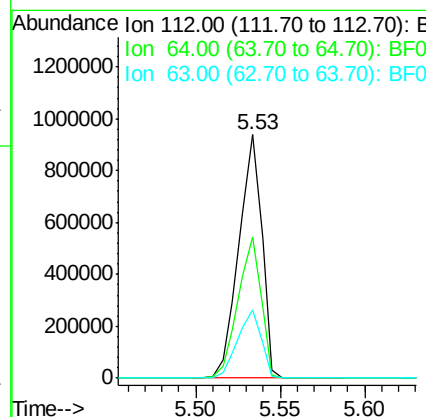
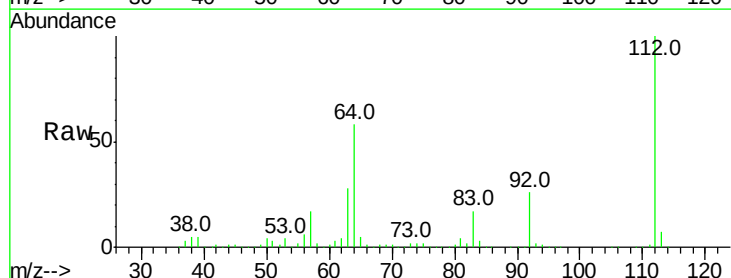
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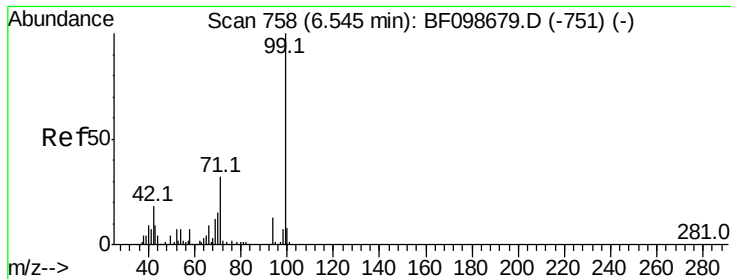


#5

2-Fluorophenol
Concen: 91.575 ng
RT: 5.53 min Scan# 586
Delta R.T. -0.01 min
Lab File: BF098780.D
Acq: 25 Sep 2017 13:45

Tgt Ion	Ratio	Lower	Upper
112	100		
64	58.1	47.9	71.9
63	28.1	23.7	35.5





#7

Phenol-d6

Concen: 89.590 ng

RT: 6.54 min Scan# 757

Delta R.T. -0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

ClientSampled :

SP-2-C-COMP

Tot Ion: 99 Resp: 1071858

Ion Ratio Lower Upper

99 100

42 17.1 14.5 21.7

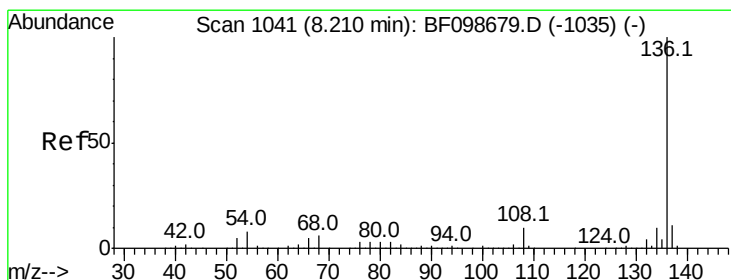
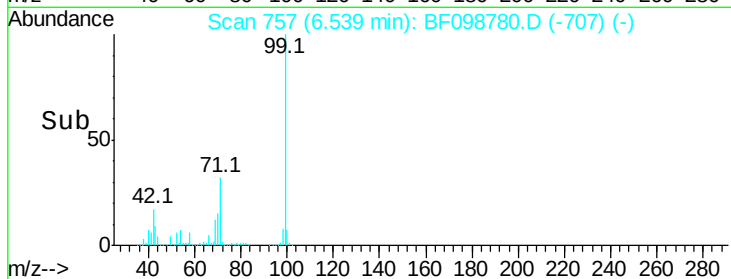
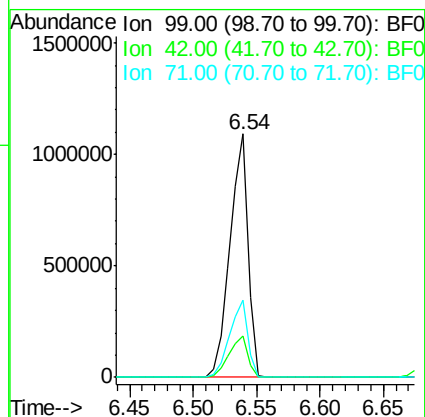
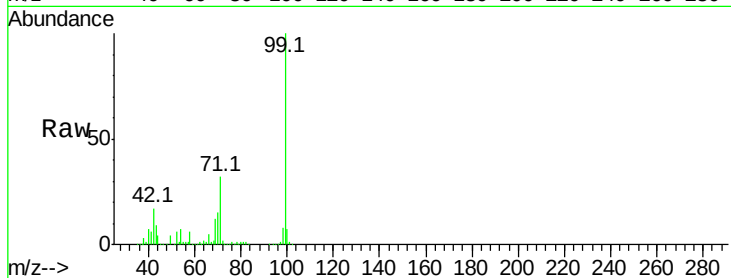
71 31.7 25.4 38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.20 min Scan# 1039

Delta R.T. -0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Tgt Ion: 136 Resp: 618066

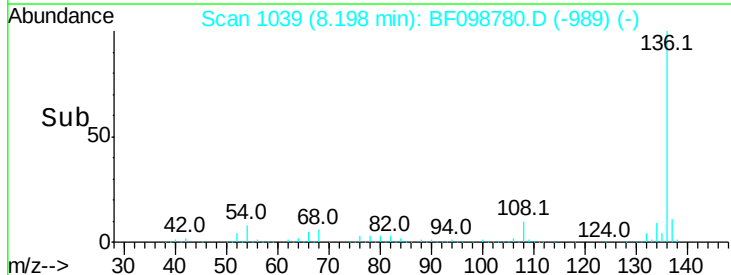
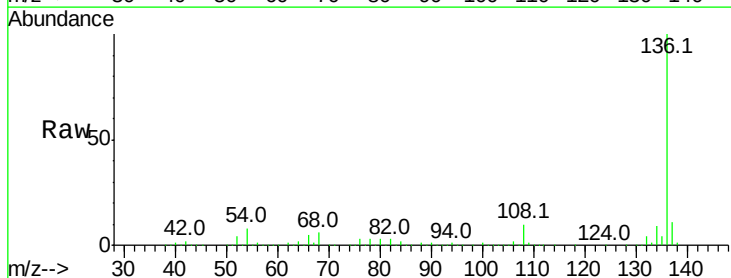
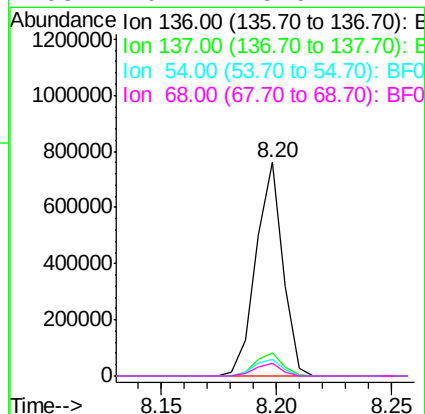
Ion Ratio Lower Upper

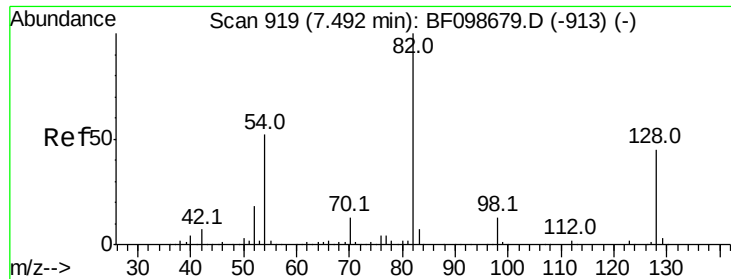
136 100

137 11.0 8.9 13.3

54 7.8 6.6 9.8

68 6.1 5.0 7.4





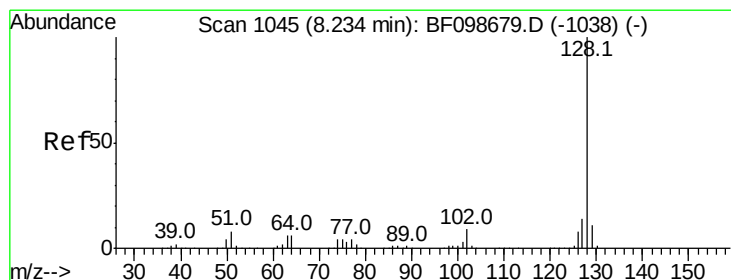
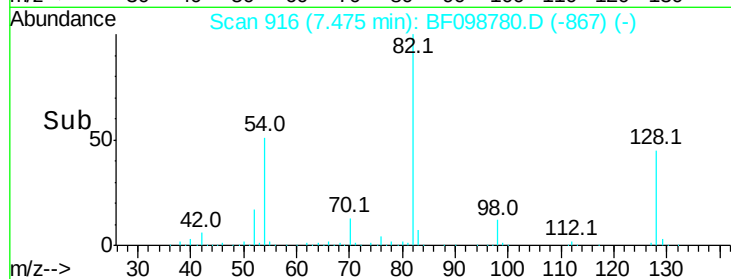
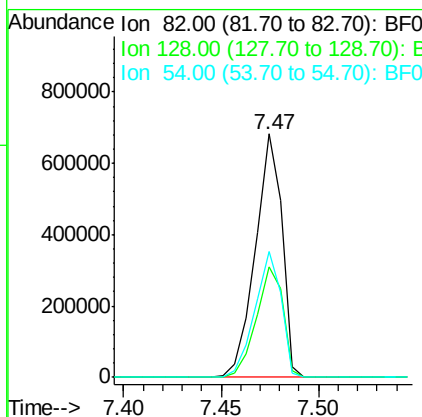
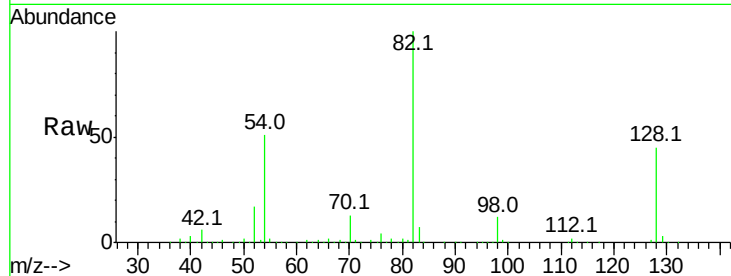
#23
 Nitrobenzene-d5
 Concen: 66.806 ng
 RT: 7.47 min Scan# 916
 Delta R.T. -0.01 min
 Lab File: BF098780.D
 Acq: 25 Sep 2017 13:45

Instrument :
 BNA_F
 ClientSampled :
 SP-2-C-COMP

Tot Ion	Ratio	Lower	Upper
82	100		
128	45.5	36.1	54.1
54	51.5	41.4	62.2

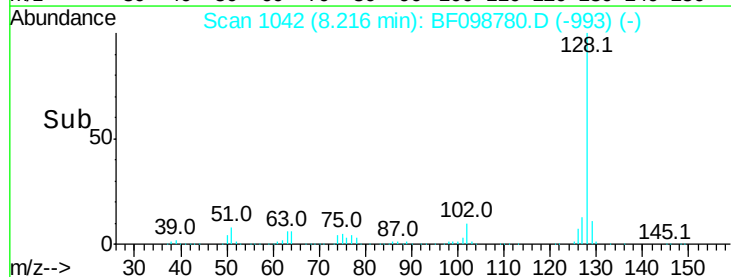
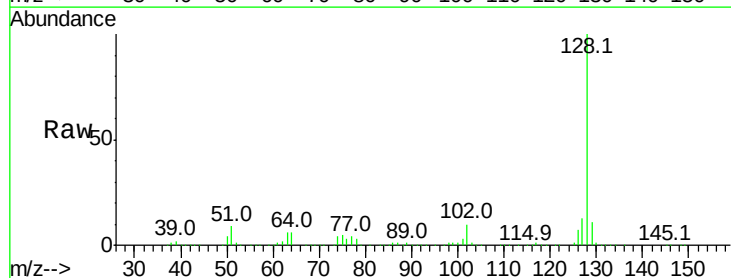
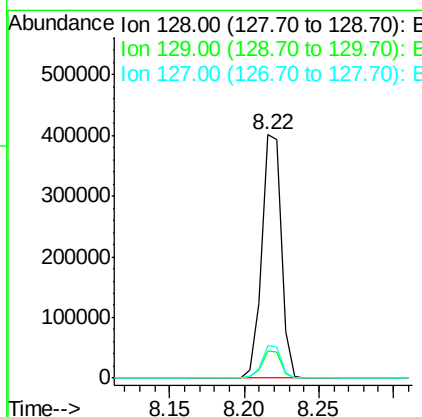
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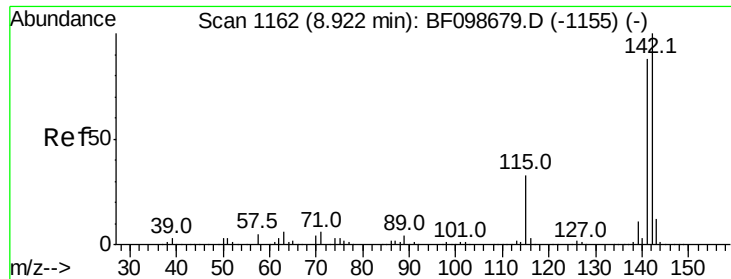
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#31
 Naphthalene
 Concen: 12.322 ng
 RT: 8.22 min Scan# 1042
 Delta R.T. -0.01 min
 Lab File: BF098780.D
 Acq: 25 Sep 2017 13:45

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.5	10.9	16.3





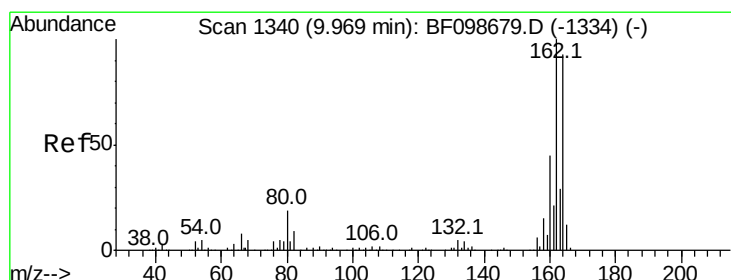
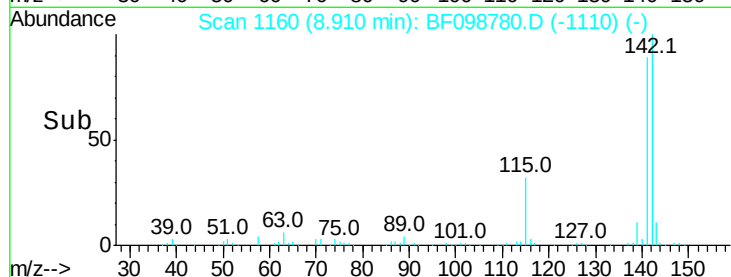
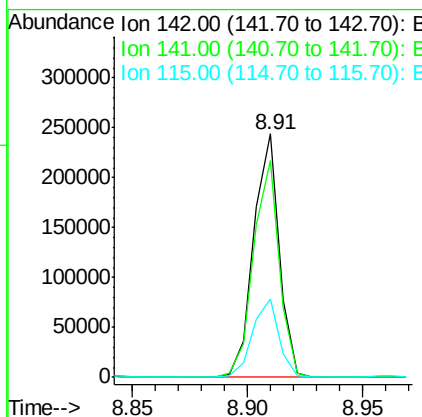
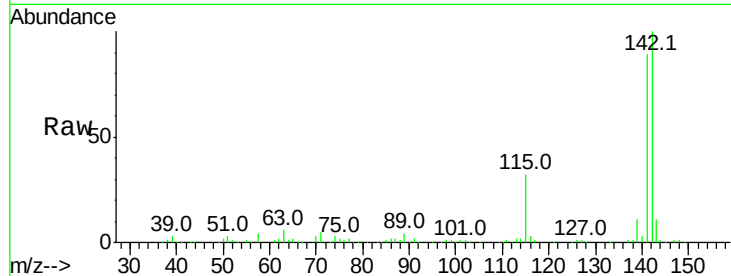
#37
2-Methylnaphthalene
Concen: 10.063 ng
RT: 8.91 min Scan# 1160
Delta R.T. -0.01 min
Lab File: BF098780.D
Acq: 25 Sep 2017 13:45

Instrument :
BNA_F
ClientSampleId :
SP-2-C-COMP

Tot Ion	Ratio	Resp	Lower	Upper
142	100	189900		
141	89.2	70.8	106.2	
115	32.2	26.1	39.1	

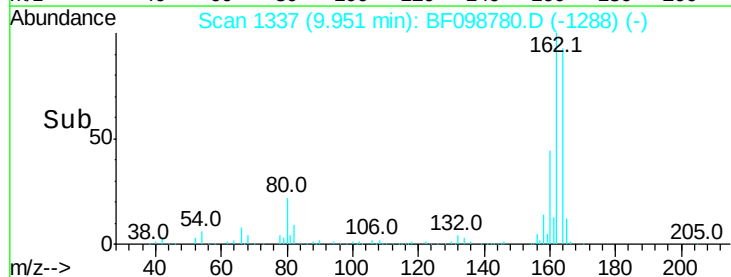
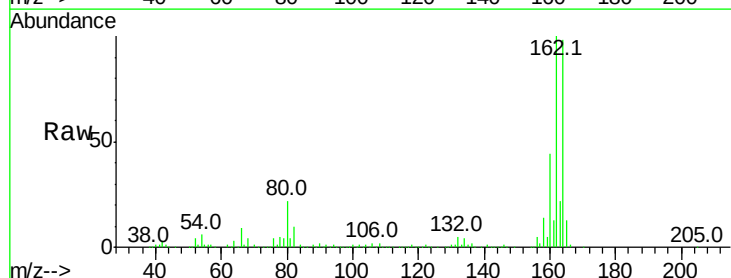
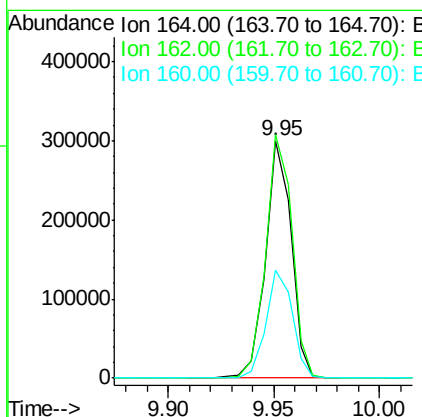
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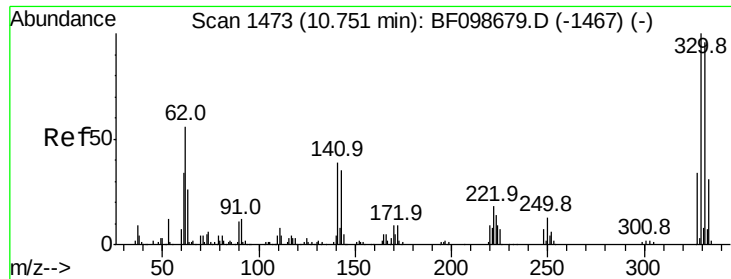
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.95 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF098780.D
Acq: 25 Sep 2017 13:45

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	253781		
162	102.5	86.1	129.1	
160	45.3	38.3	57.5	





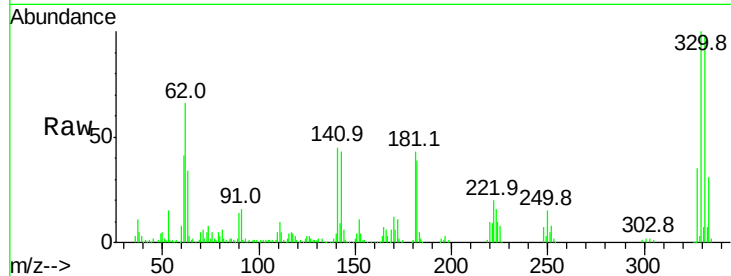
#41
 2,4,6-Tribromophenol
 Concen: 80.695 ng
 RT: 10.74 min Scan# 1471
 Delta R.T. -0.01 min
 Lab File: BF098780.D
 Acq: 25 Sep 2017 13:45

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-C-COMP

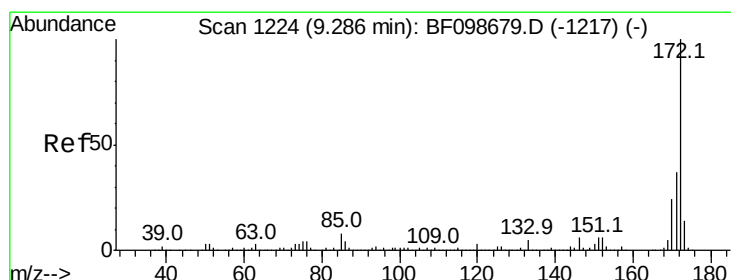
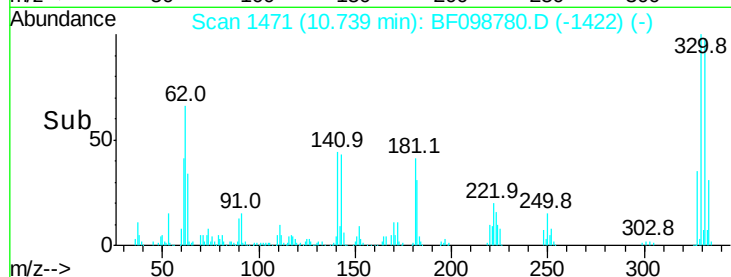
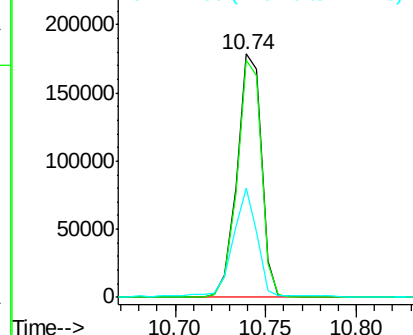
Tot Ion	Ratio	Lower	Upper
330	100		
332	96.8	77.0	115.6
141	43.2	29.9	44.9

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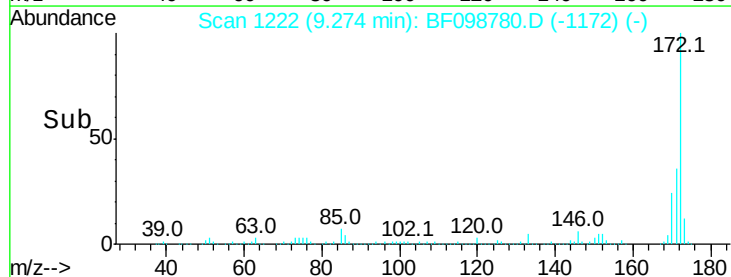
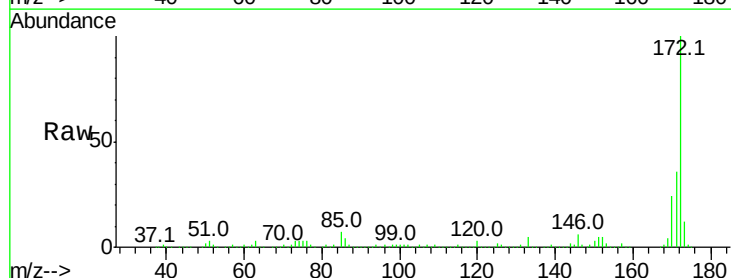
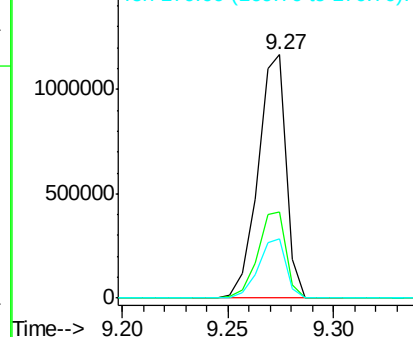
Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

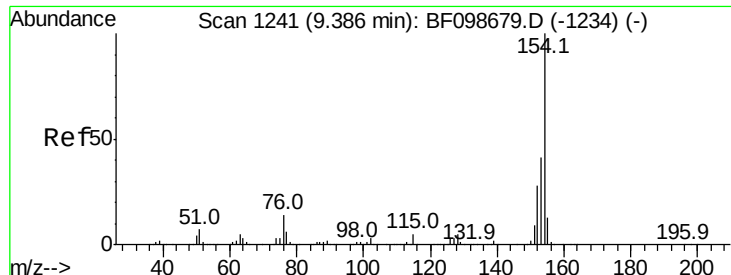


#44
 2-Fluorobiphenyl
 Concen: 71.222 ng
 RT: 9.27 min Scan# 1222
 Delta R.T. -0.01 min
 Lab File: BF098780.D
 Acq: 25 Sep 2017 13:45

Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	29.7	44.5
170	24.2	19.6	29.4

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





#45

1,1'-Biphenyl

Concen: 3.001 ng

RT: 9.37 min Scan# 1238

Delta R.T. -0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

ClientSampled :

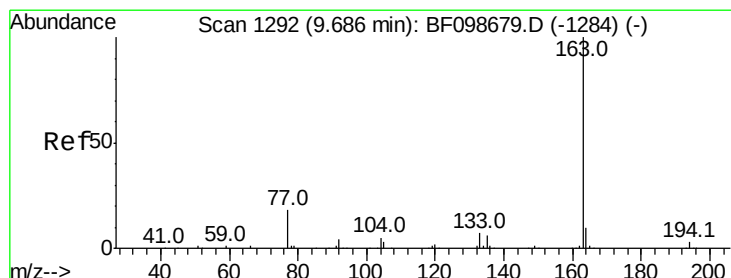
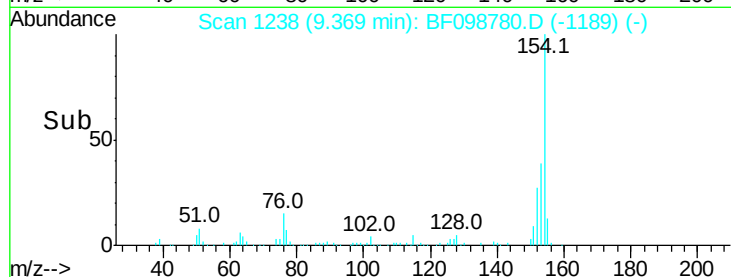
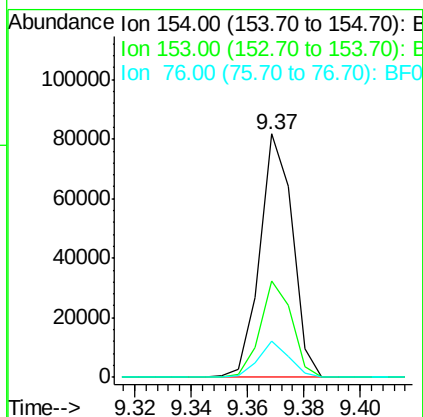
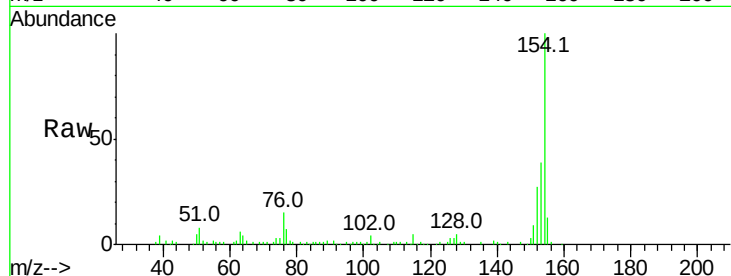
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Tot Ion:	154	Resp:	65450
Ion Ratio	Lower	Upper	
154	100		
153	39.4	21.3	61.3
76	14.7	0.0	34.0

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#49

Dimethylphthalate

Concen: 7.323 ng

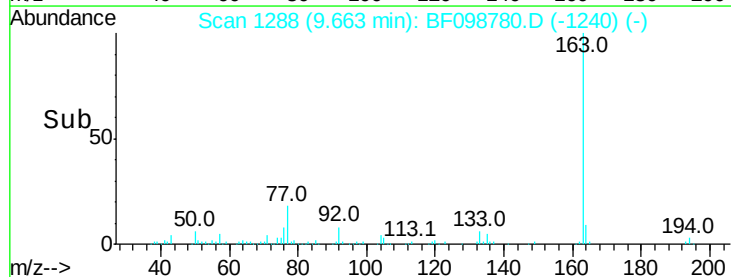
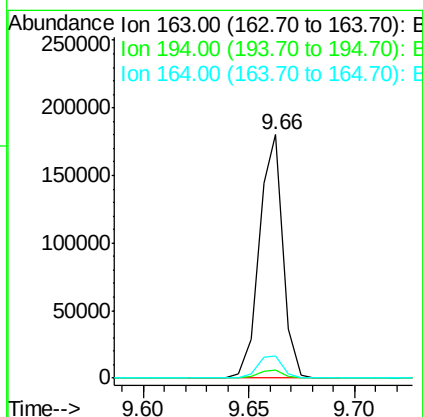
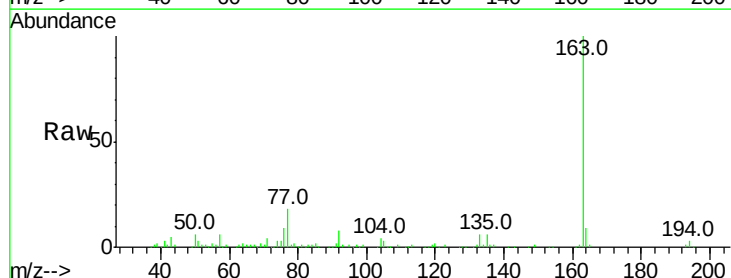
RT: 9.66 min Scan# 1288

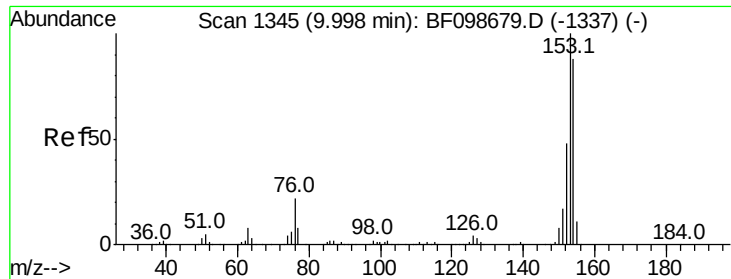
Delta R.T. -0.02 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Tgt Ion:	163	Resp:	140272
Ion Ratio	Lower	Upper	
163	100		
194	3.4	2.7	4.1
164	9.1	8.2	12.2





#51

Acenaphthene

Concen: 10.533 ng

RT: 9.99 min Scan# 1343

Delta R.T. -0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

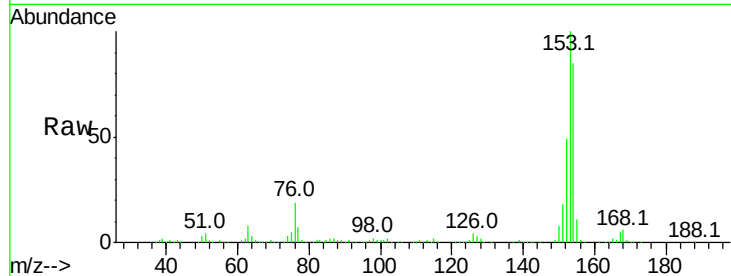
ClientSampleId :

SP-2-C-COMP

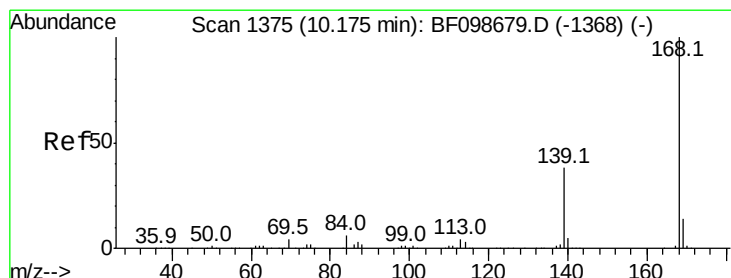
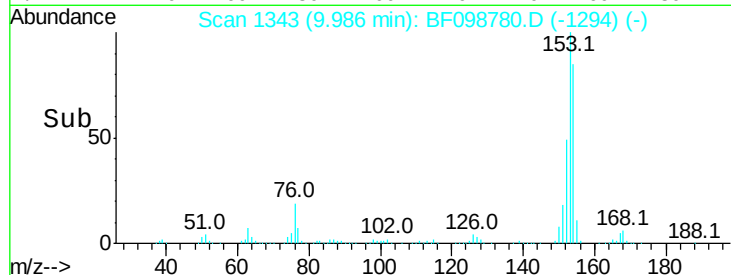
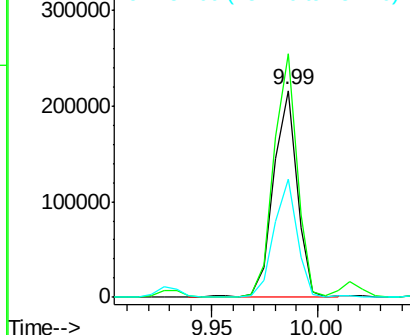
Tot Ion:	154	Resp:	167268
Ion	Ratio	Lower	Upper
154	100		
153	117.7	91.2	136.8
152	57.1	43.8	65.8

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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: 11.003 ng

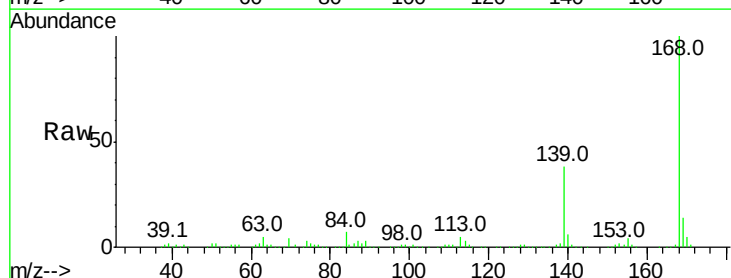
RT: 10.16 min Scan# 1372

Delta R.T. -0.01 min

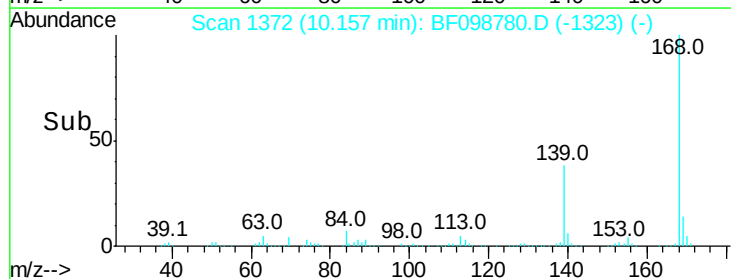
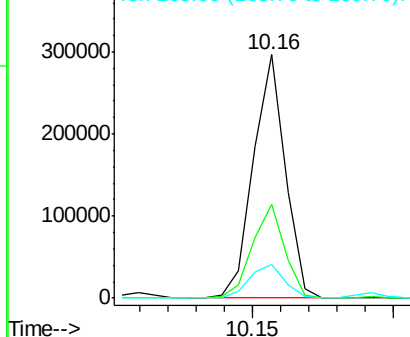
Lab File: BF098780.D

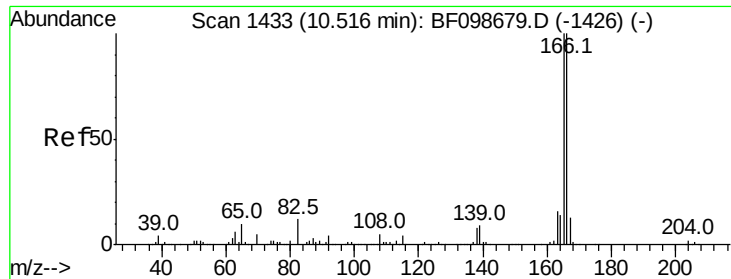
Acq: 25 Sep 2017 13:45

Tgt Ion:	168	Resp:	232634
Ion	Ratio	Lower	Upper
168	100		
139	38.3	30.1	45.1
169	14.0	10.9	16.3



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: 6.542 ng

RT: 10.50 min Scan# 1430

Delta R.T. -0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

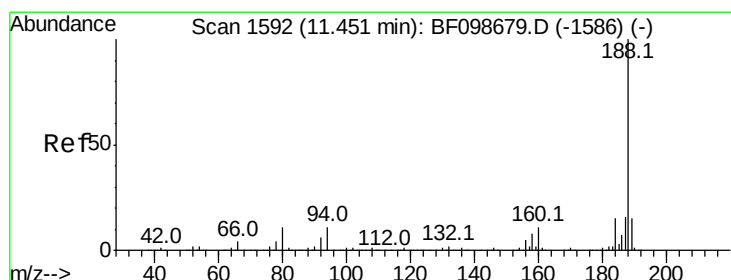
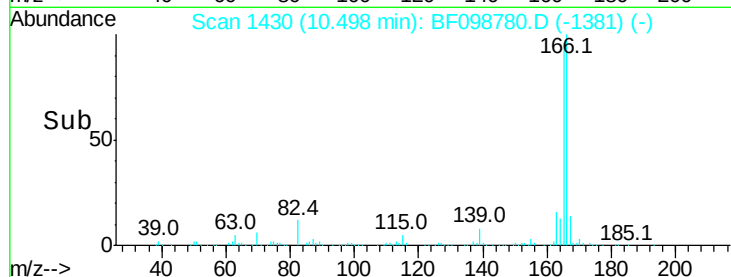
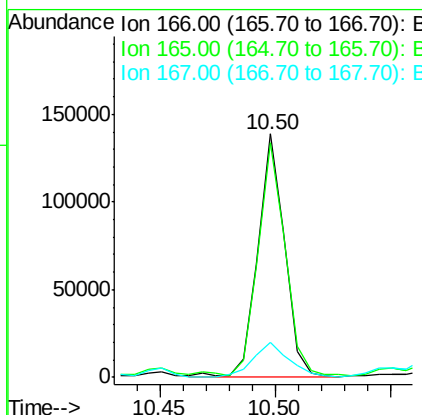
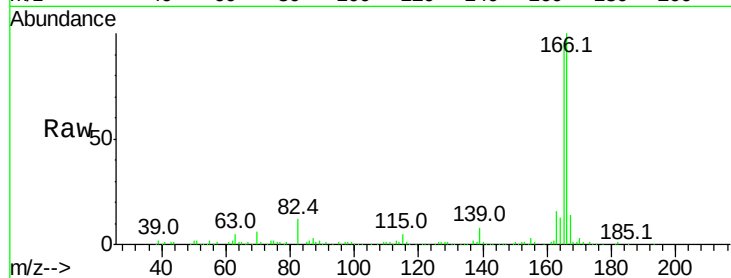
ClientSampleId :

SP-2-C-COMP

Tot Ion:	166	Resp:	111173
Ion Ratio	Lower	Upper	
166	100		
165	96.2	79.8	119.8
167	14.2	10.6	16.0

Manual Integrations
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Sohil
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#63

Phenanthrene-d10

Concen: 20.000 ng

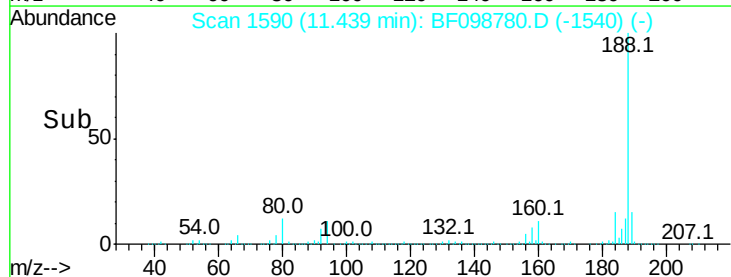
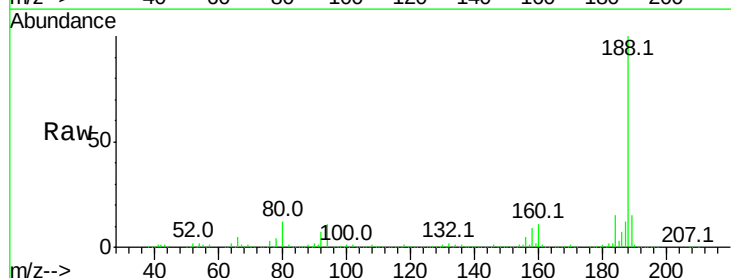
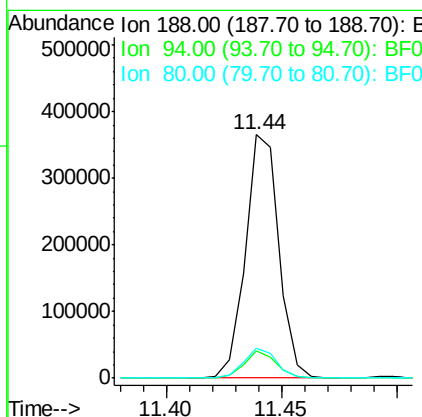
RT: 11.44 min Scan# 1590

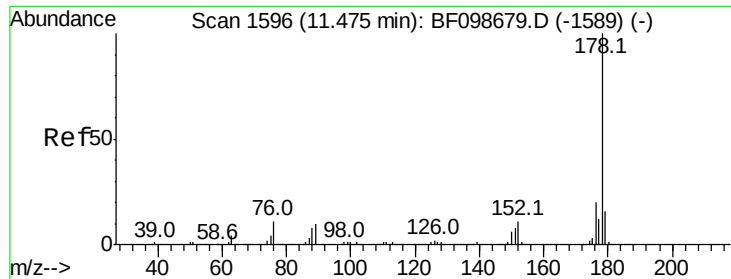
Delta R.T. -0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Tgt Ion:	188	Resp:	367382
Ion Ratio	Lower	Upper	
188	100		
94	11.4	8.5	12.7
80	12.4	9.2	13.8





#70

Phenanthrene

Concen: 84.963 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

ClientSampleId :

SP-2-C-COMP

Tot Ion:178 Resp: 1670797

Ion Ratio Lower Upper

178 100

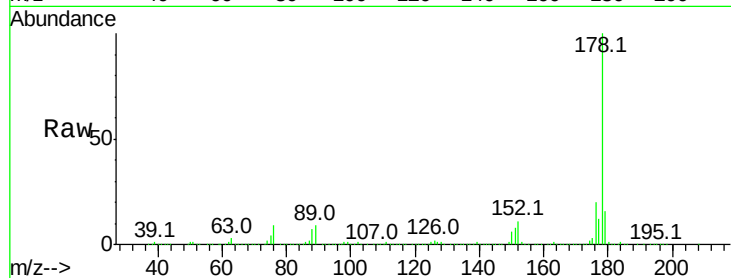
176 20.2 15.8 23.8

179 15.7 13.0 19.6

Manual Integrations
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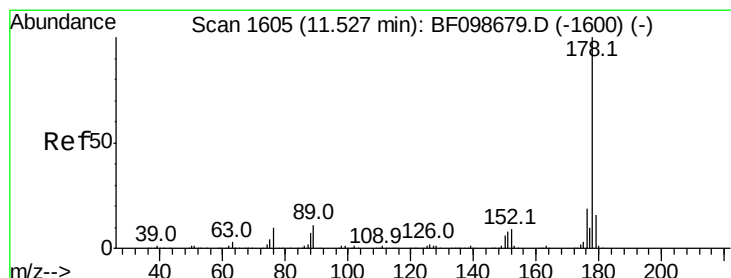
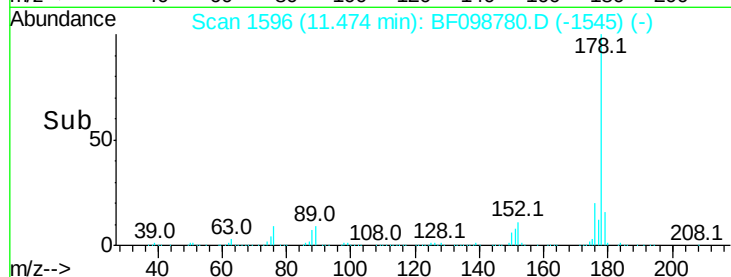
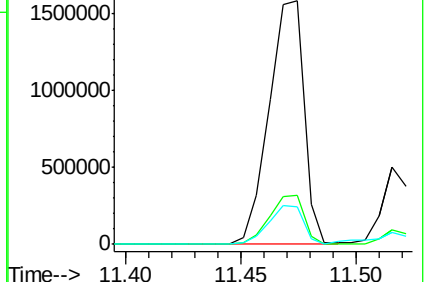
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 19.773 ng

RT: 11.52 min Scan# 1603

Delta R.T. -0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Tgt Ion:178 Resp: 397851

Ion Ratio Lower Upper

178 100

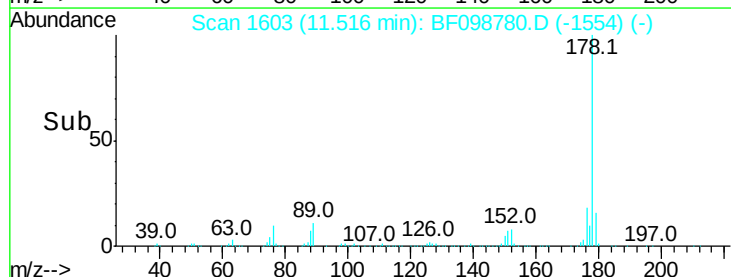
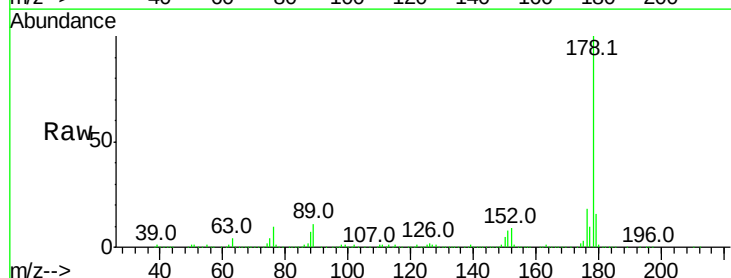
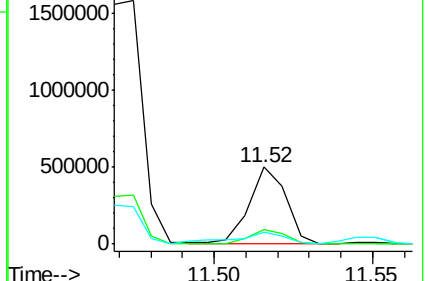
176 18.4 15.4 23.2

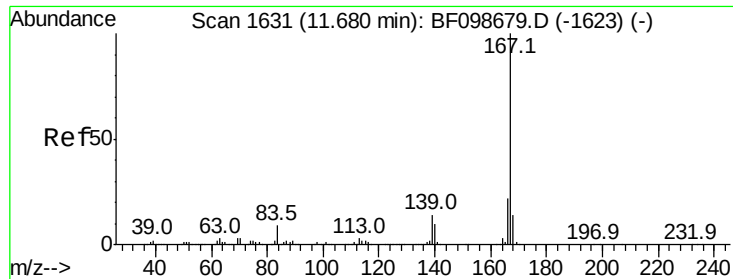
179 16.0 12.6 19.0

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: 8.475 ng

RT: 11.67 min Scan# 1629

Delta R.T. -0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

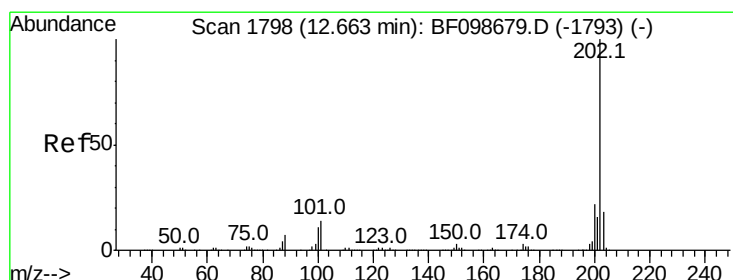
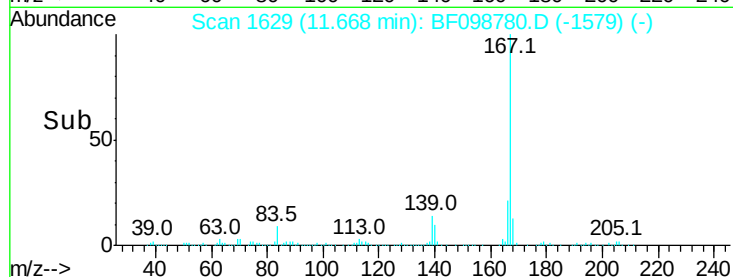
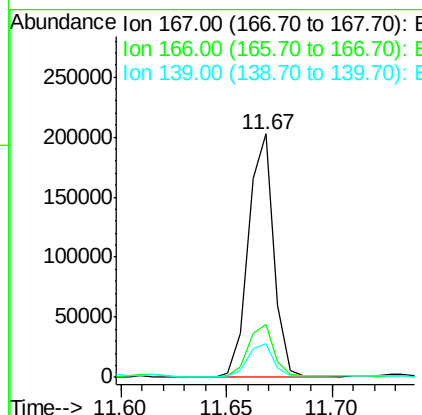
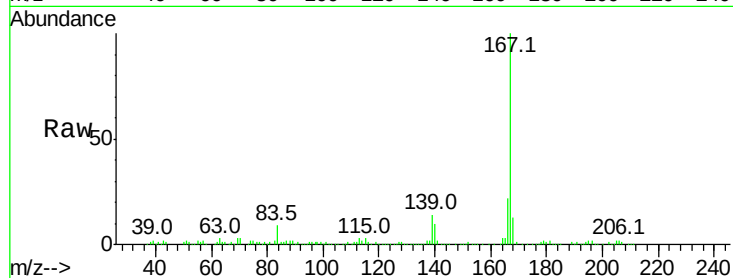
ClientSampled :

SP-2-C-COMP

Tot Ion:	167	Resp:	166999
Ion Ratio	Lower	Upper	
167	100		
166	21.8	17.6	26.4
139	13.9	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 99.077 ng

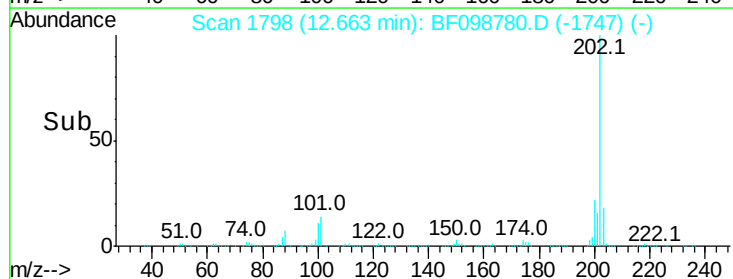
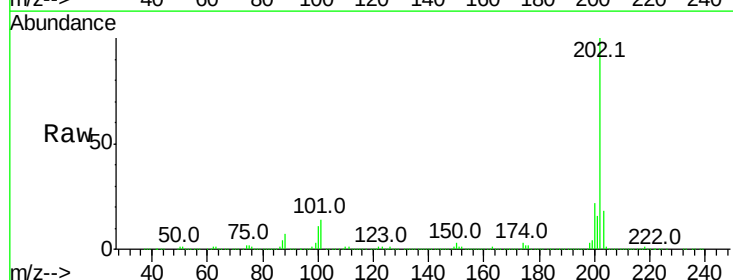
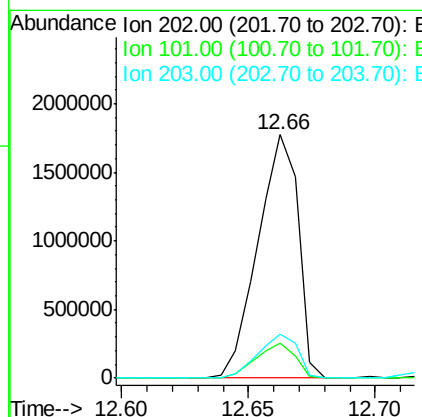
RT: 12.66 min Scan# 1798

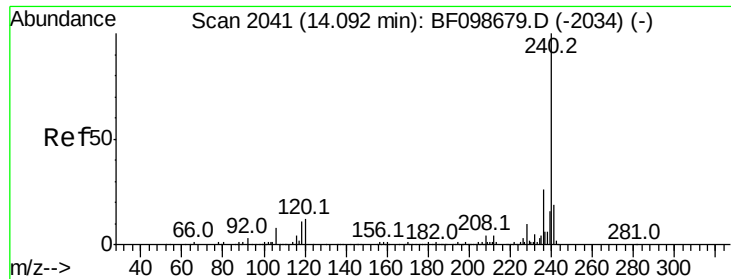
Delta R.T. -0.00 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Tgt Ion:	202	Resp:	1972906
Ion Ratio	Lower	Upper	
202	100		
101	14.4	0.0	34.1
203	18.3	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.09 min Scan# 2040

Delta R.T. -0.00 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

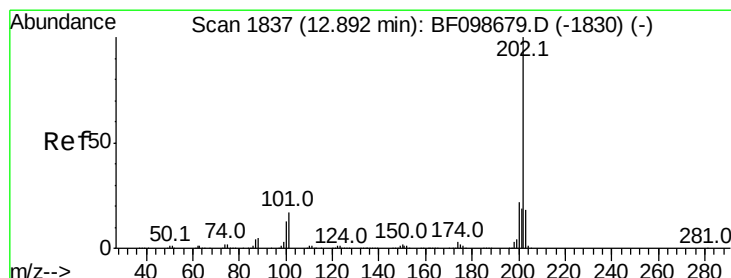
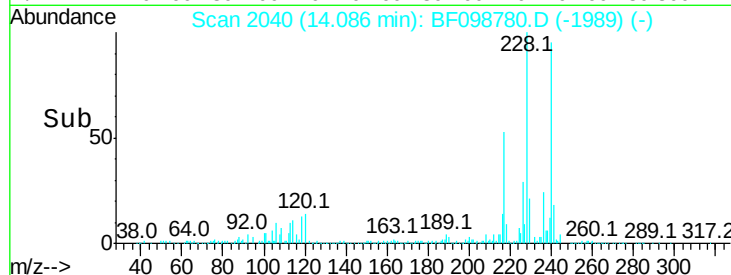
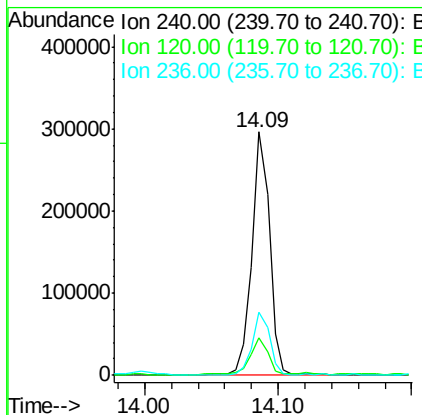
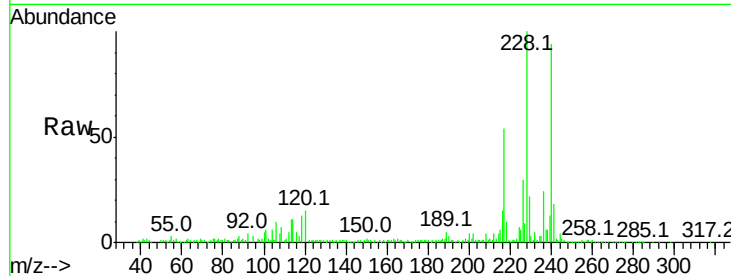
ClientSampleId :

SP-2-C-COMP

Tot Ion:	240	Resp:	265650
Ion Ratio	Lower	Upper	
240	100		
120	15.5	9.5	14.3#
236	25.8	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 85.291 ng

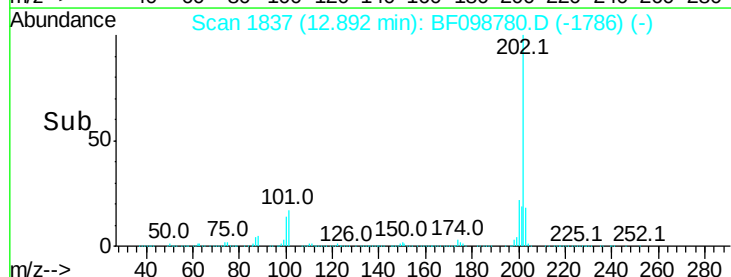
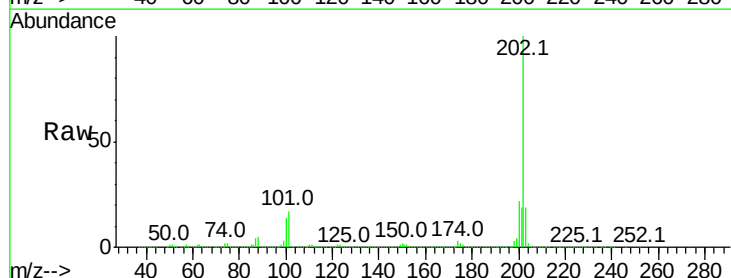
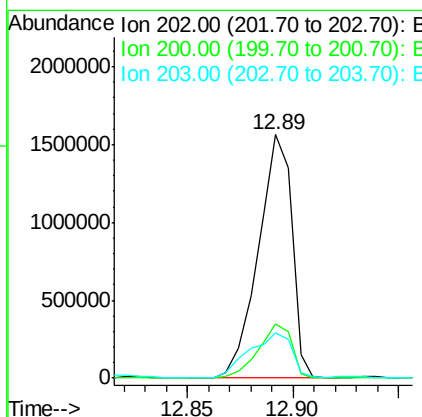
RT: 12.89 min Scan# 1837

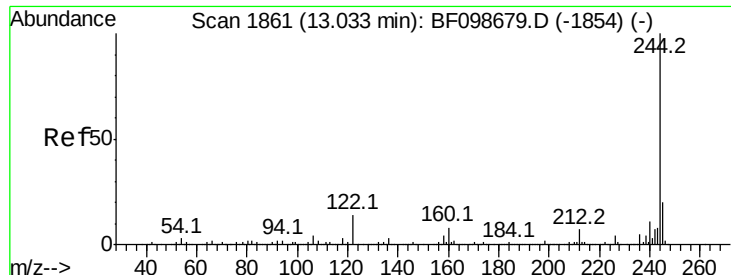
Delta R.T. -0.00 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Tgt Ion:	202	Resp:	1727722
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.4	26.2
203	18.6	14.3	21.5





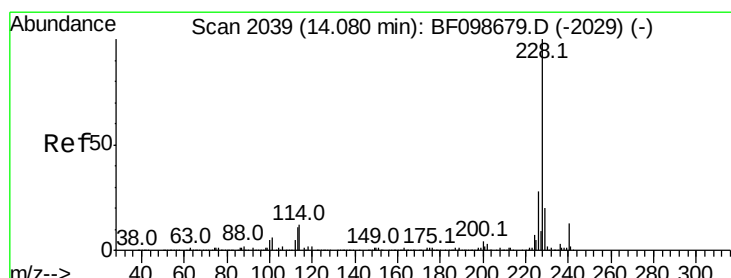
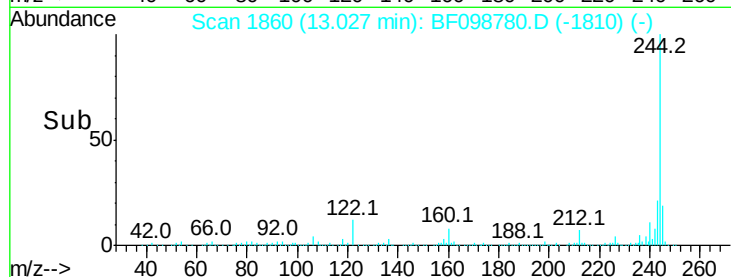
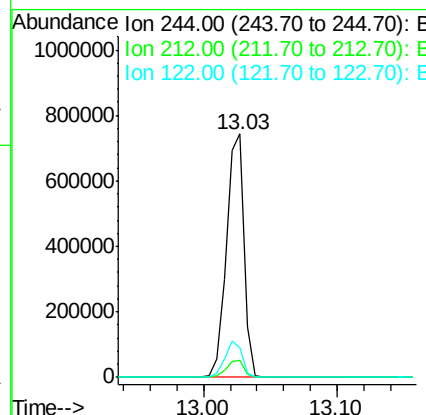
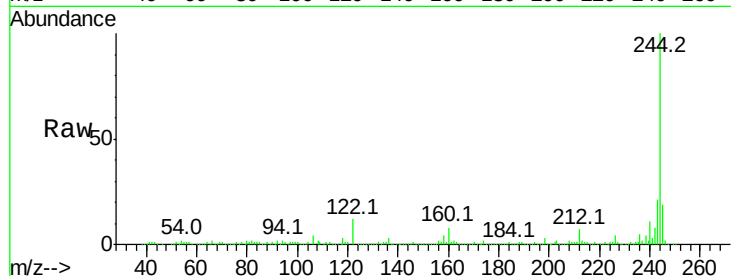
#78
 Terphenyl-d14
 Concen: 59.371 ng
 RT: 13.03 min Scan# 1860
 Delta R.T. -0.01 min
 Lab File: BF098780.D
 Acq: 25 Sep 2017 13:45

Instrument :
 BNA_F
 ClientSampleId :
 SP-2-C-COMP

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.4	8.0
122	12.4	11.0	16.4

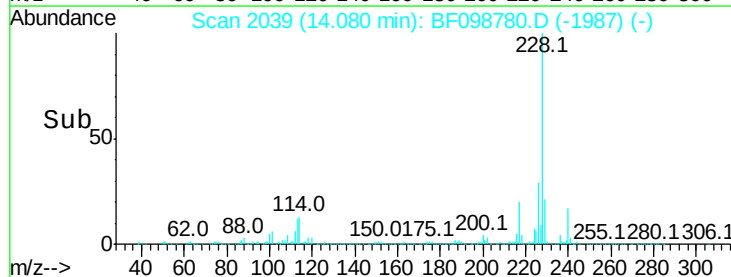
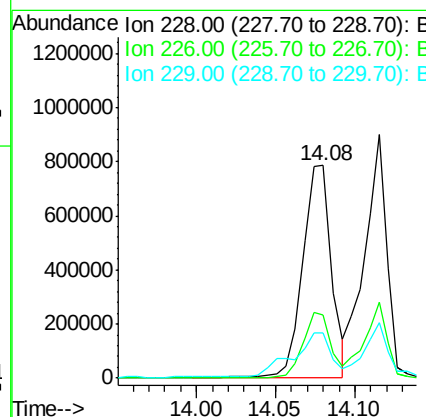
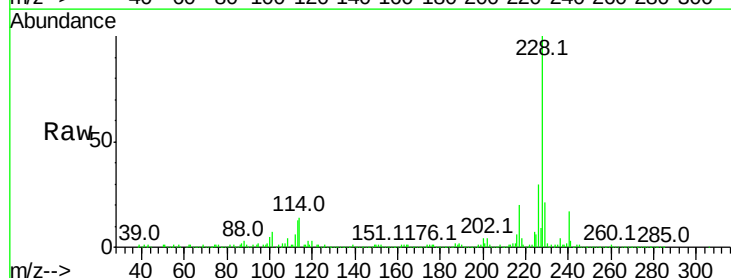
Manual Integrations
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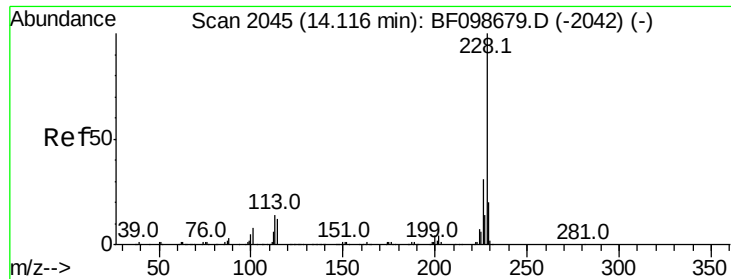
Sohil
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#80
 Benzo(a)anthracene
 Concen: 61.016 ng
 RT: 14.08 min Scan# 2039
 Delta R.T. 0.01 min
 Lab File: BF098780.D
 Acq: 25 Sep 2017 13:45

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.6	22.6	33.8
229	21.3	15.8	23.6





#82

Chrysene

Concen: 57.988 ng

RT: 14.12 min Scan# 2045

Delta R.T. -0.00 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

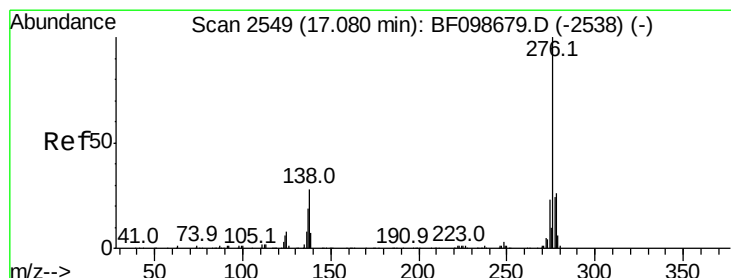
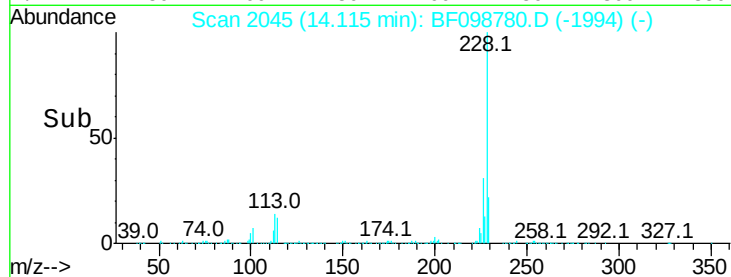
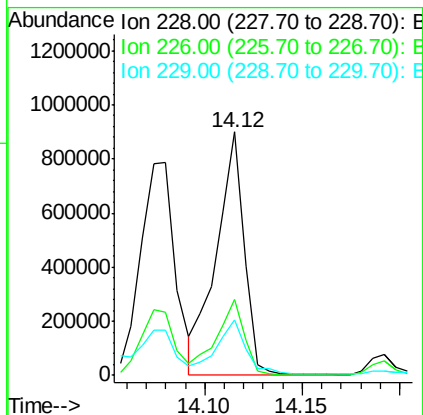
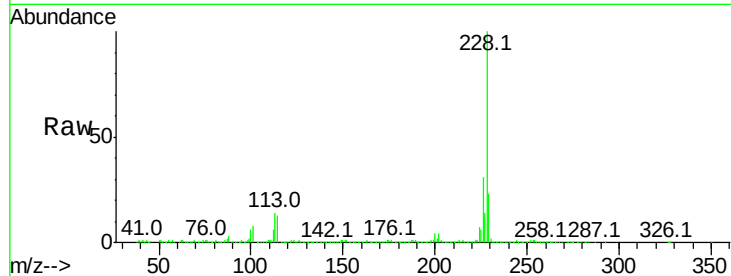
ClientSampleId :

SP-2-C-COMP

Tot Ion:	228	Resp:	888048
Ion Ratio	Lower	Upper	
228	100		
226	31.1	25.0	37.6
229	22.5	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 24.339 ng

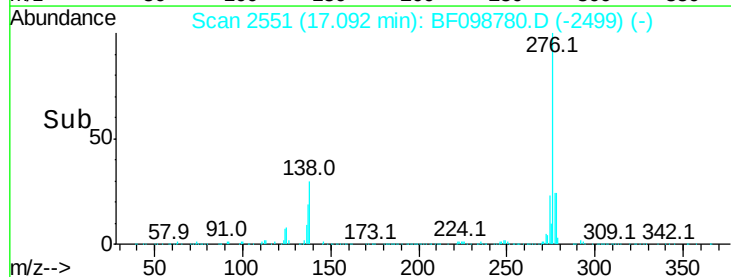
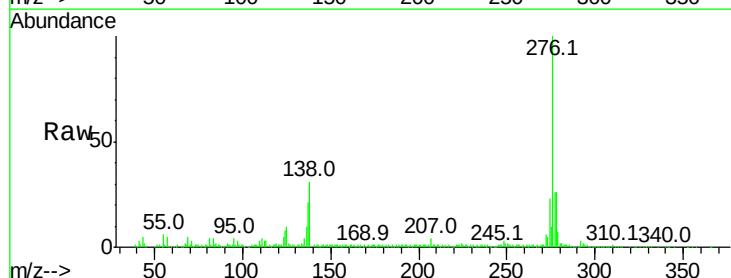
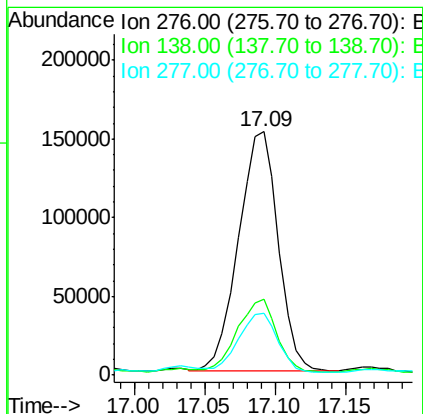
RT: 17.09 min Scan# 2551

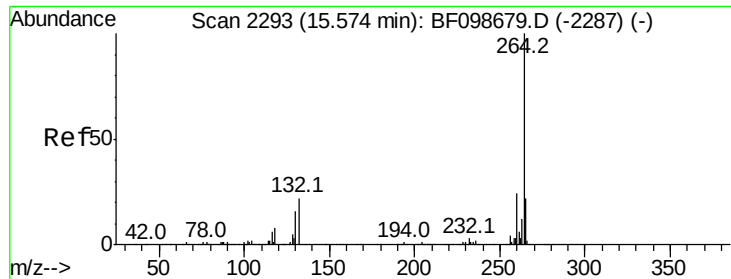
Delta R.T. 0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Tgt Ion:	276	Resp:	298161
Ion Ratio	Lower	Upper	
276	100		
138	30.2	25.0	37.6
277	24.9	20.1	30.1





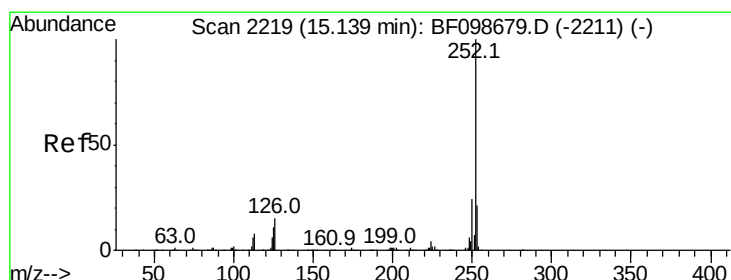
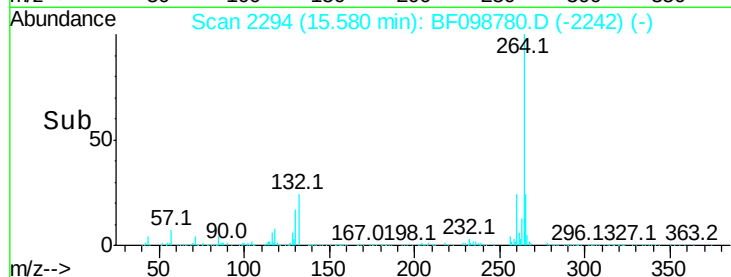
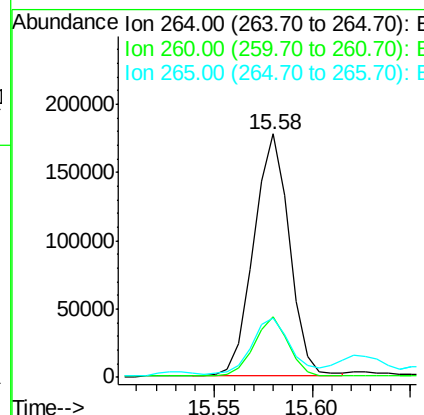
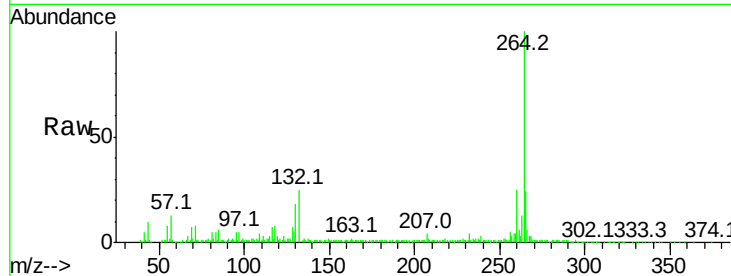
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.58 min Scan# 2294
Delta R.T. 0.01 min
Lab File: BF098780.D
Acq: 25 Sep 2017 13:45

Instrument :
BNA_F
ClientSampleId :
SP-2-C-COMP

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.0	19.2	28.8
265	24.2	17.5	26.3

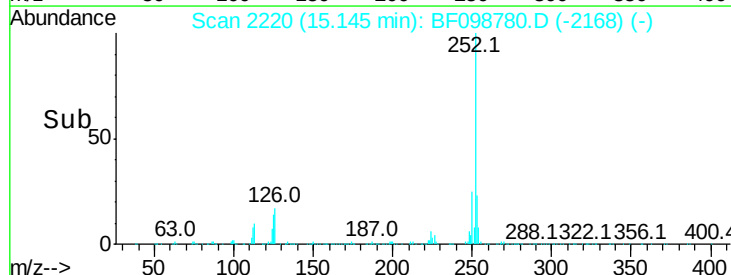
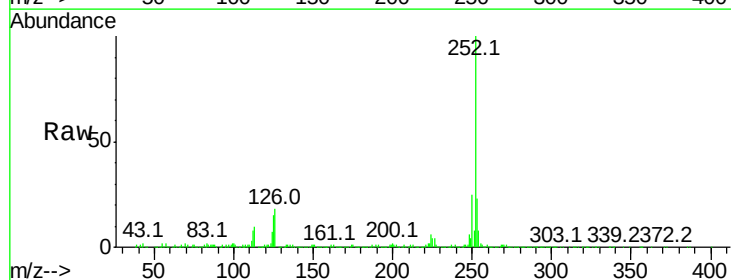
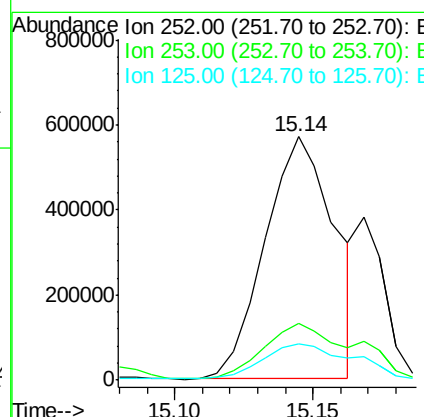
Manual Integrations
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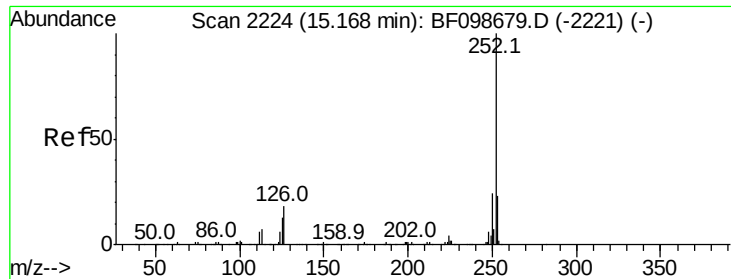
Sohil
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#87
Benzo(b)fluoranthene
Concen: 72.476 ng m
RT: 15.14 min Scan# 2220
Delta R.T. 0.01 min
Lab File: BF098780.D
Acq: 25 Sep 2017 13:45

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.0	25.6
125	14.8	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 19.762 ng/mL

RT: 15.17 min Scan# 2224

Delta R.T. -0.00 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Instrument :

BNA_F

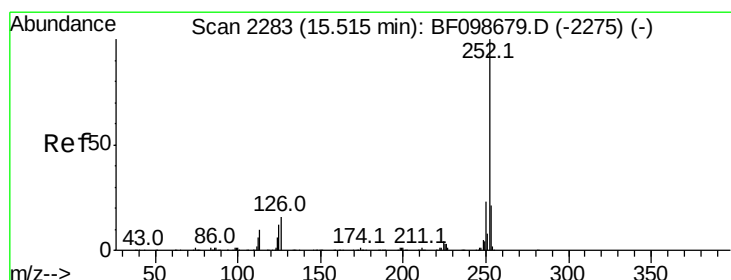
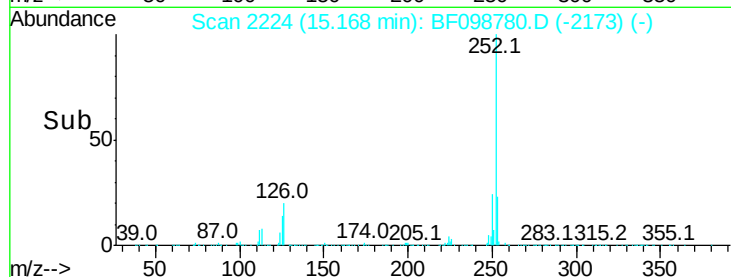
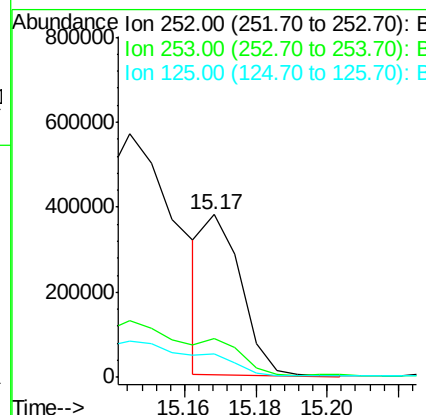
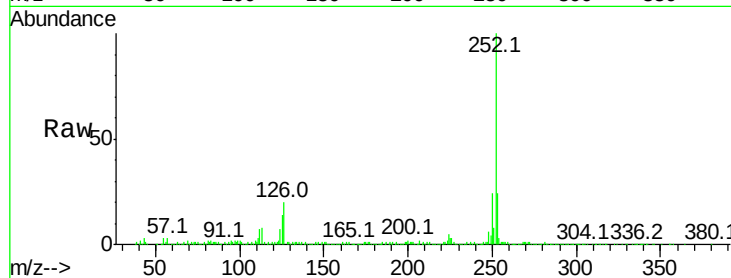
ClientSampleId :

SP-2-C-COMP

Tot Ion:	252	Resp:	268192
Ion Ratio	Lower	Upper	
252	100		
253	23.6	17.9	26.9
125	14.4	10.2	15.2

Manual Integrations
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Sohil
9/26/2017 4:58:25 PM



#89

Benzo(a)pyrene

Concen: 49.737 ng/mL

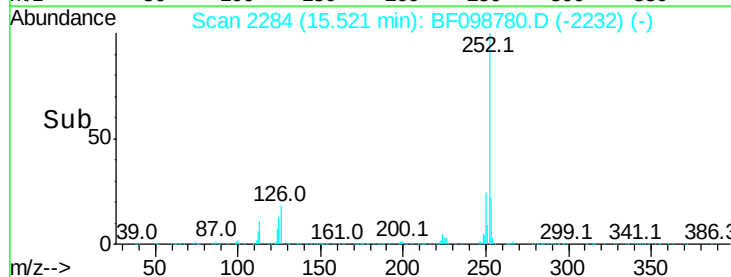
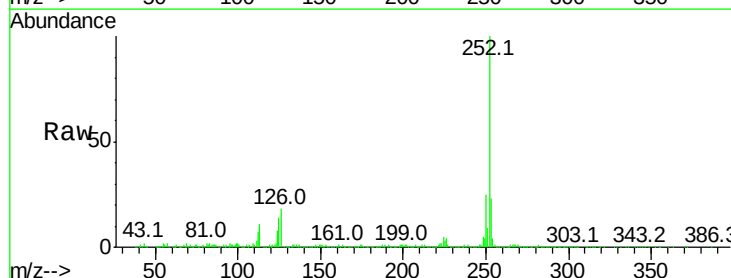
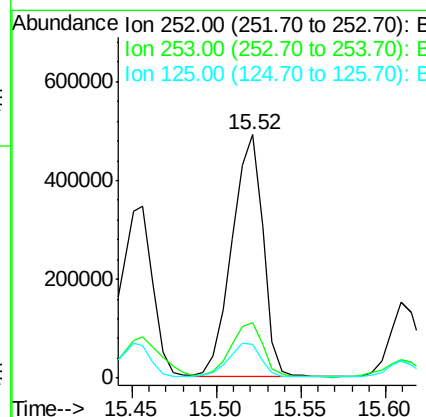
RT: 15.52 min Scan# 2284

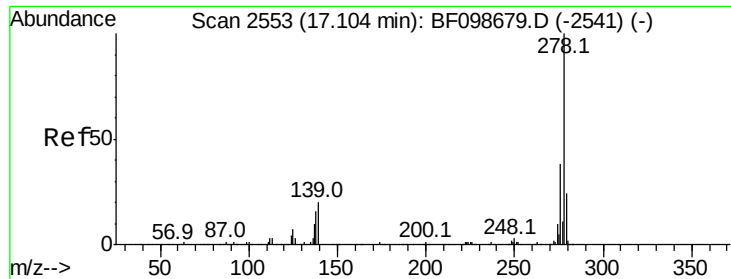
Delta R.T. 0.01 min

Lab File: BF098780.D

Acq: 25 Sep 2017 13:45

Tgt Ion:	252	Resp:	627302
Ion Ratio	Lower	Upper	
252	100		
253	23.0	17.1	25.7
125	13.9	9.8	14.6





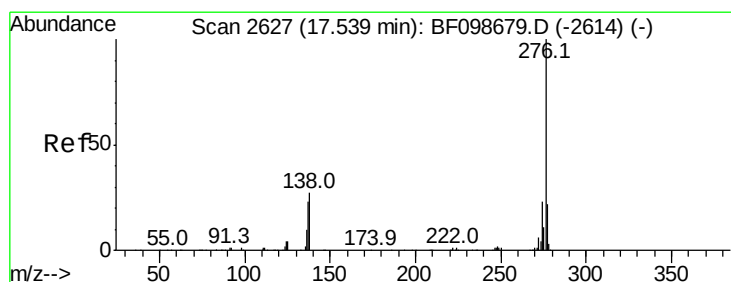
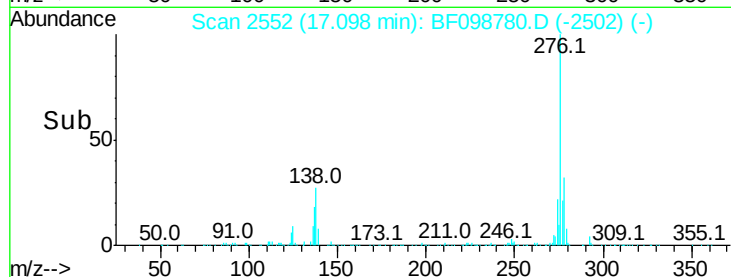
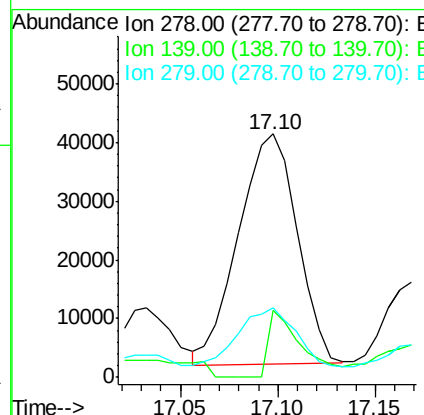
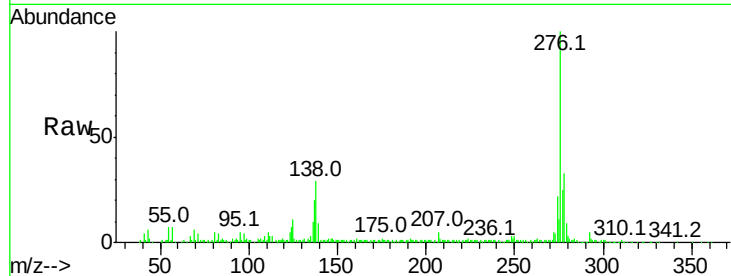
#90
Dibenzo(a,h)anthracene
Concen: 8.118 ng
RT: 17.10 min Scan# 2552
Delta R.T. -0.01 min
Lab File: BF098780.D
Acq: 25 Sep 2017 13:45

Instrument :
BNA_F
ClientSampleId :
SP-2-C-COMP

Tot Ion	Ratio	Lower	Upper
278	100		
139	27.4	15.9	23.9#
279	28.6	19.0	28.4#

Manual Integrations
APPROVED

Sohil
9/26/2017 4:58:25 PM



#91
Benzo(g,h,i)perylene
Concen: 29.021 ng
RT: 17.55 min Scan# 2629
Delta R.T. 0.01 min
Lab File: BF098780.D
Acq: 25 Sep 2017 13:45

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	17.9	26.9
138	31.0	21.8	32.8

