

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF091317\
 Data File : BF098506.D
 Acq On : 13 Sep 2017 23:04
 Operator : SJ/JU
 Sample : I5160-03
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 G-8-3

Manual Integrations
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 9/14/2017 5:52:57 PM

Quant Time: Sep 14 07:30:03 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 02:14:50 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.66	152	178358	20.00	ng	-0.01
21) Naphthalene-d8	7.94	136	722508	20.00	ng	-0.01
38) Acenaphthene-d10	9.69	164	304172	20.00	ng	-0.02
63) Phenanthrene-d10	11.17	188	469846	20.00	ng	-0.02
75) Chrysene-d12	13.80	240	336841	20.00	ng	-0.01
86) Perylene-d12	15.21	264	306211	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.27	112	1383622	114.70	ng	0.00
7) Phenol-d6	6.32	99	1757019	114.72	ng	0.00
23) Nitrobenzene-d5	7.23	82	1002184	77.33	ng	-0.01
41) 2,4,6-Tribromophenol	10.48	330	231003	113.79	ng	-0.01
44) 2-Fluorobiphenyl	9.02	172	1700051	94.73	ng	-0.02
78) Terphenyl-d14	12.76	244	1024174	65.63	ng	-0.01

Target Compounds				Qvalue		
10) Phenol	6.33	94	54636	3.071	ng	93
31) Naphthalene	7.96	128	145945	4.086	ng	100
37) 2-Methylnaphthalene	8.65	142	97830	4.522	ng	100
48) Acenaphthylene	9.55	152	124579	4.309	ng	98
49) Dimethylphthalate	9.41	163	337460	14.332	ng	100
54) Dibenzofuran	9.89	168	63945	2.641	ng	# 94
70) Phenanthrene	11.19	178	265874	10.674	ng	99
71) Anthracene	11.25	178	155768	6.091	ng	98
72) Carbazole	11.40	167	52237	2.192	ng	97
74) Fluoranthene	12.38	202	536529	21.517	ng	99
77) Pyrene	12.61	202	501211	18.862	ng	98
80) Benzo(a)anthracene	13.80	228	319871m	16.197	ng	
82) Chrysene	13.83	228	385441	19.308	ng	98
83) Bis(2-ethylhexyl)phthalate	13.79	149	49468	3.419	ng	# 99
85) Indeno(1,2,3-cd)pyrene	16.54	276	162382	11.594	ng	91
87) Benzo(b)fluoranthene	14.82	252	641262m	33.306	ng	
88) Benzo(k)fluoranthene	14.84	252	143472m	7.982	ng	
89) Benzo(a)pyrene	15.15	252	245484	14.311	ng	98
90) Dibenz(a,h)anthracene	16.54	278	50523	4.049	ng	# 91
91) Benzo(a,h,i)perylene	16.95	276	142952	11.390	ng	97

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

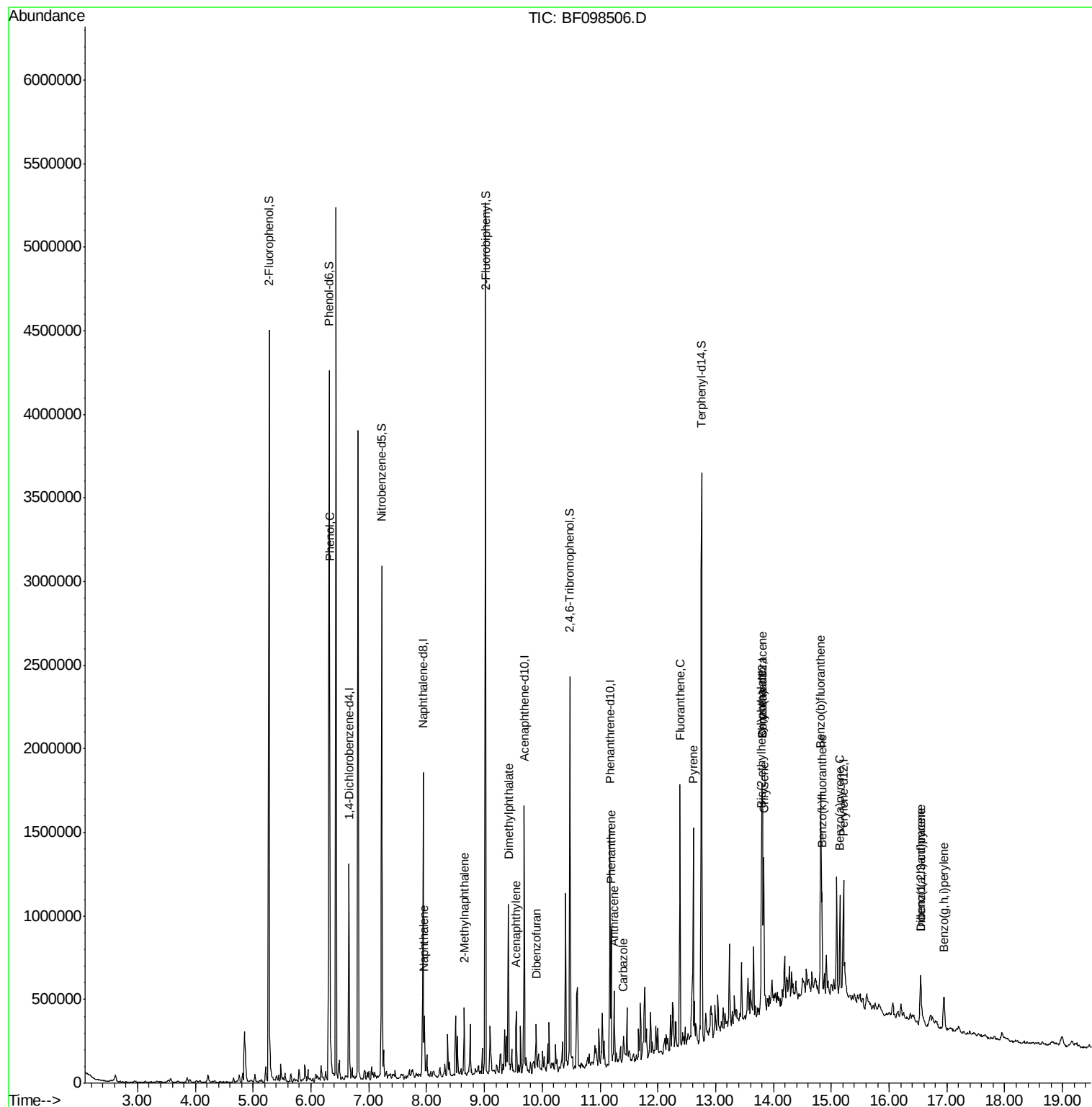
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF091317\
Data File : BF098506.D
Acq On : 13 Sep 2017 23:04
Operator : SJ/JU
Sample : I5160-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

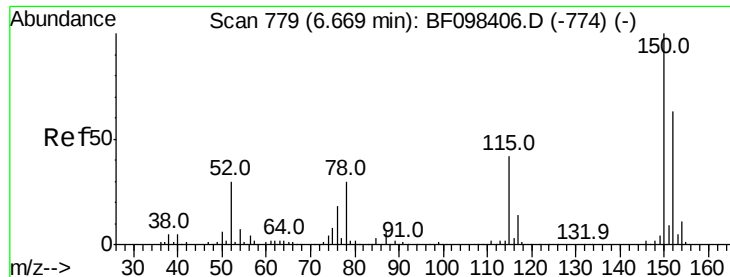
Instrument :
BNA_F
ClientSampleId :
G-8-3

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Quant Time: Sep 14 07:30:03 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 12 02:14:50 2017
Response via : Initial Calibration





#1

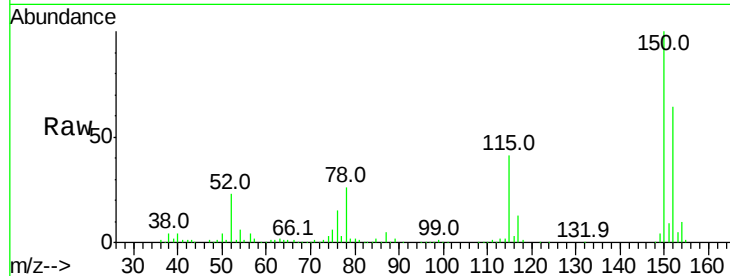
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.66 min Scan# 777
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Instrument :
BNA_F
ClientSampled :
G-8-3

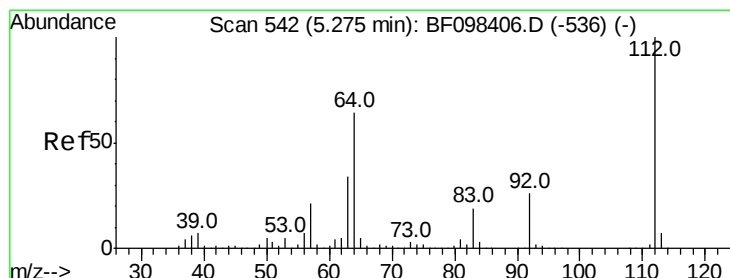
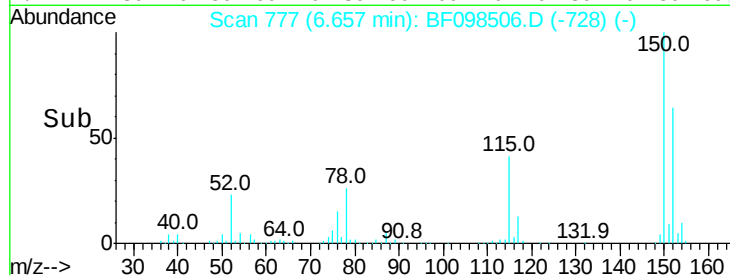
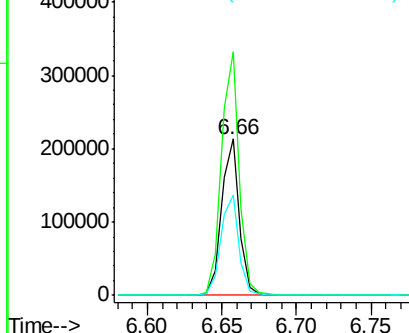
Tot Ion	Ratio	Lower	Upper
152	100		
150	155.8	126.2	189.2
115	64.1	52.2	78.2

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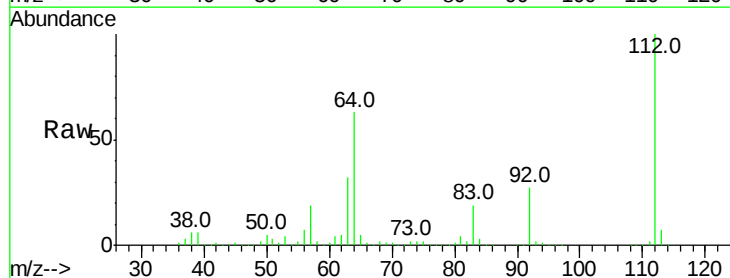
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



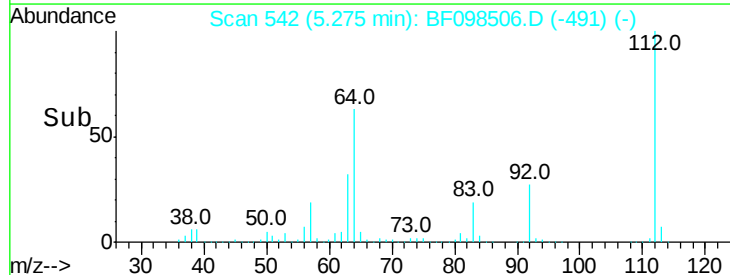
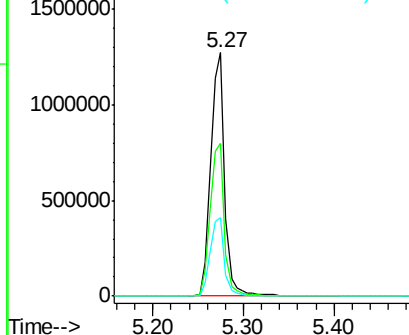
#5

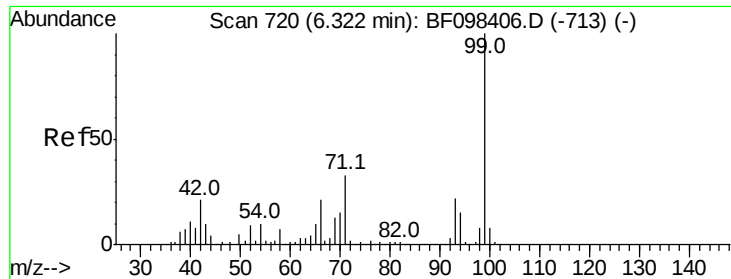
2-Fluorophenol
Concen: 114.697 ng
RT: 5.27 min Scan# 542
Delta R.T. 0.00 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Lower	Upper
112	100		
64	62.7	46.0	69.0
63	32.1	23.4	35.0



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





#7

Phenol-d6

Concen: 114.716 ng

RT: 6.32 min Scan# 719

Delta R.T. -0.01 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

Instrument :

BNA_F

ClientSampled :

G-8-3

Tot Ion: 99 Resp: 1757019

Ion Ratio Lower Upper

99 100

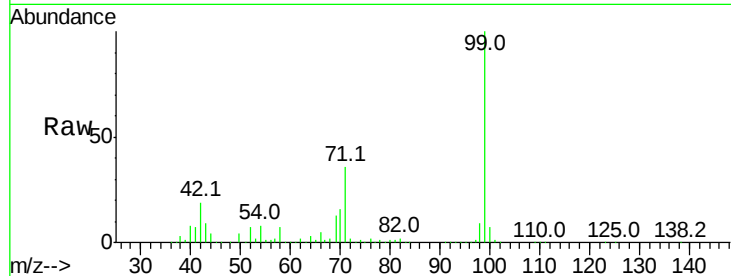
42 18.6 13.5 20.3

71 35.7 24.5 36.7

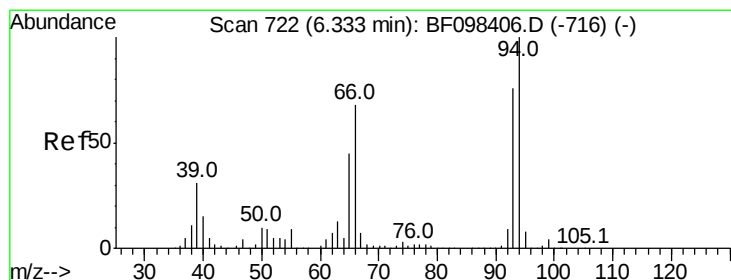
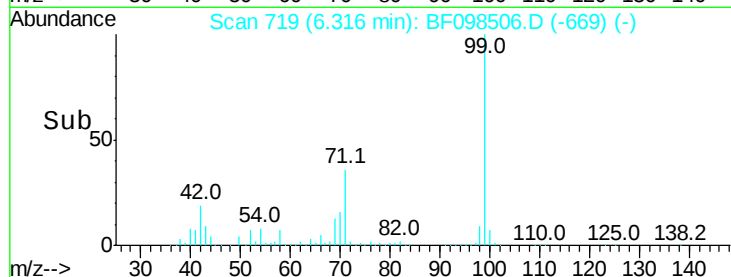
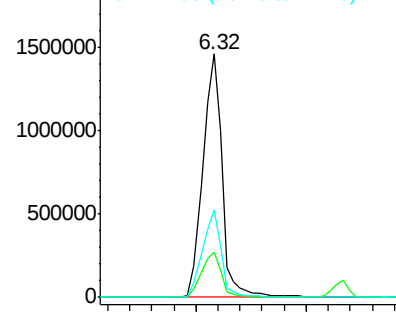
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Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#10

Phenol

Concen: 3.071 ng

RT: 6.33 min Scan# 721

Delta R.T. -0.01 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

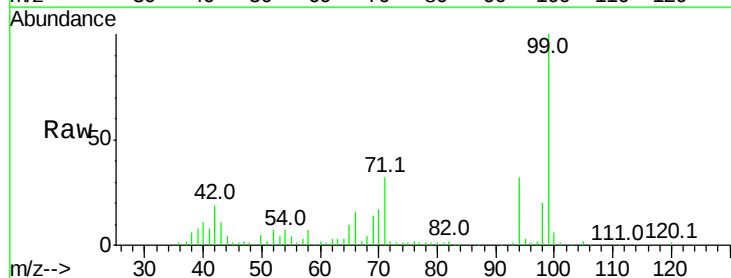
Tgt Ion: 94 Resp: 54636

Ion Ratio Lower Upper

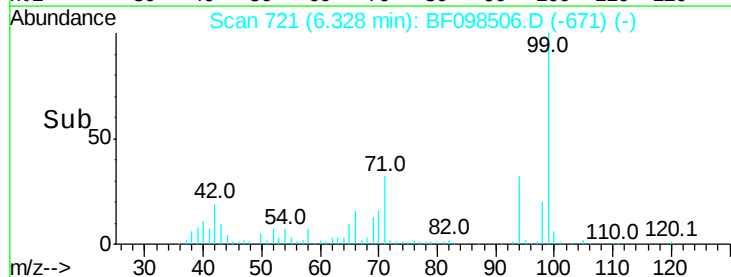
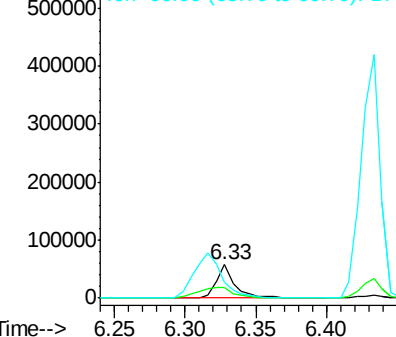
94 100

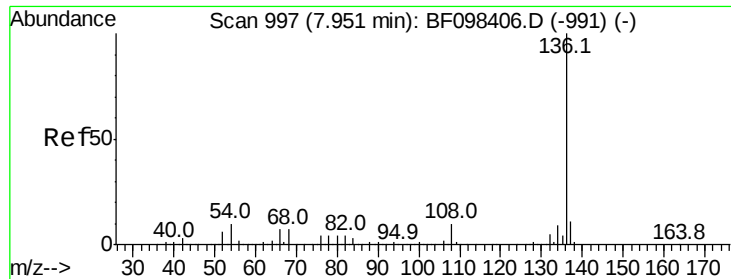
65 31.2 9.9 49.9

66 49.5 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





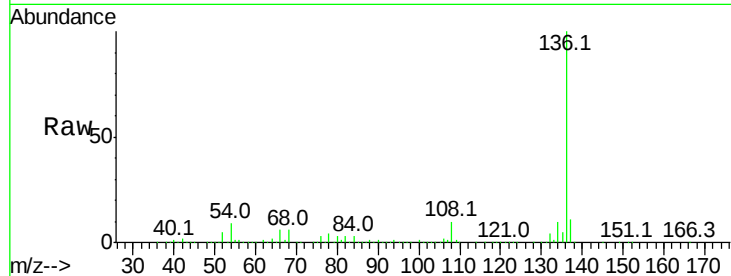
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.94 min Scan# 995
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Instrument :
BNA_F
ClientSampled :
G-8-3

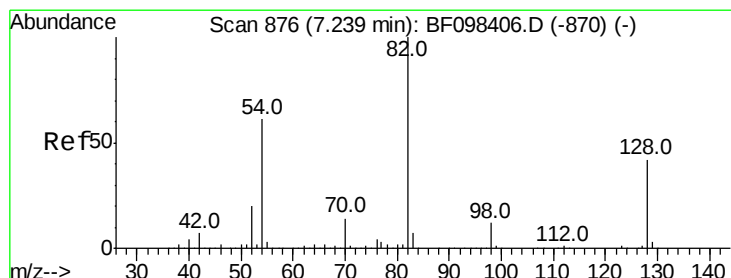
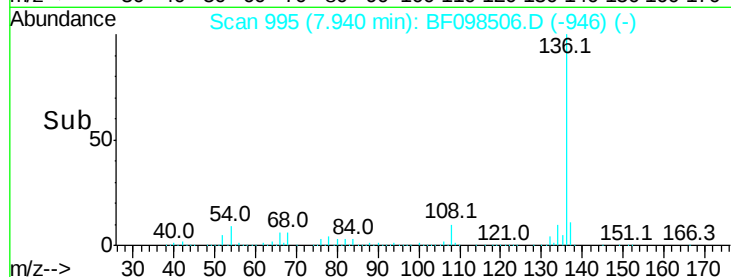
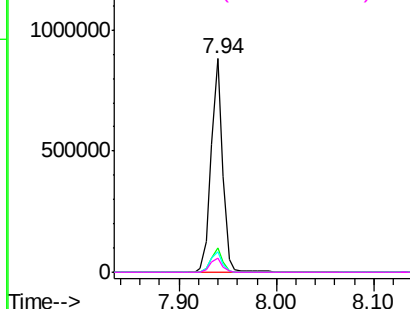
Tot Ion	Ratio	Resp Lower	Upper
136	100		
137	11.2	8.5	12.7
54	9.5	4.9	7.3#
68	6.4	4.1	6.1#

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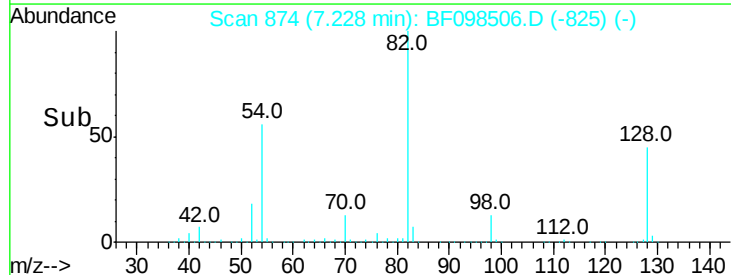
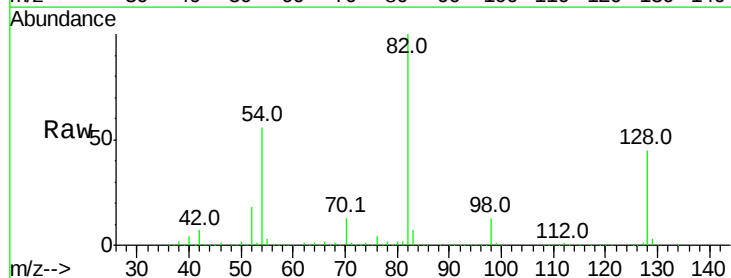
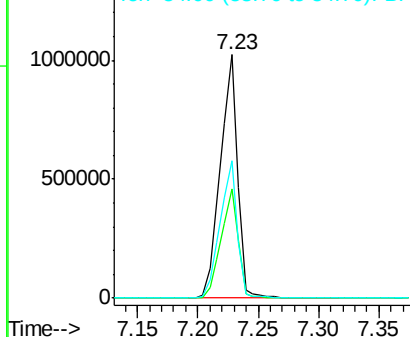
Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

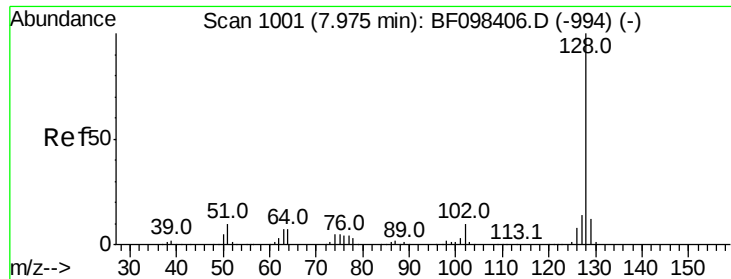


#23
Nitrobenzene-d5
Concen: 77.330 ng
RT: 7.23 min Scan# 874
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Resp Lower	Upper
82	100		
128	44.6	34.0	51.0
54	56.5	42.2	63.2

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





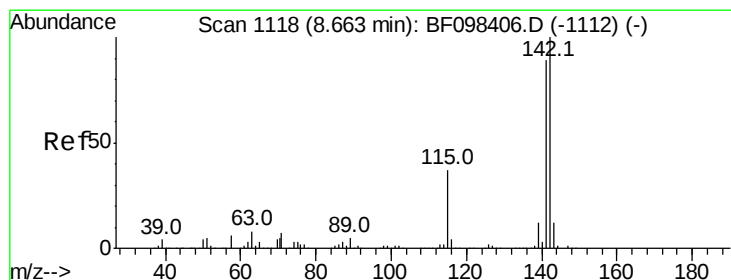
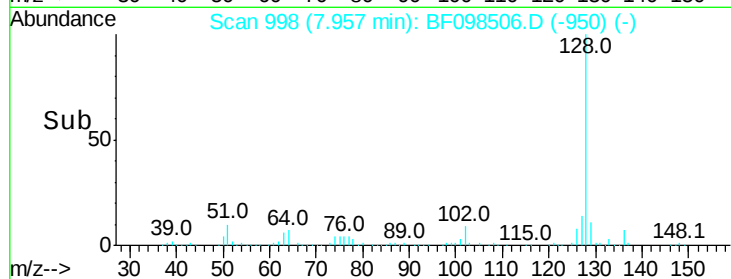
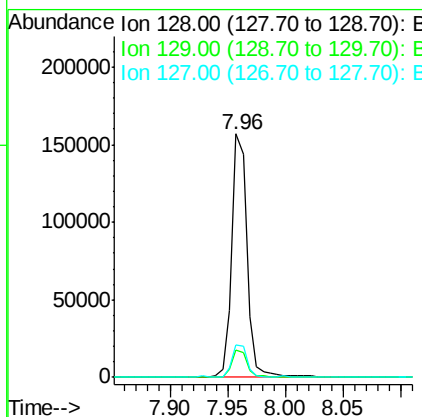
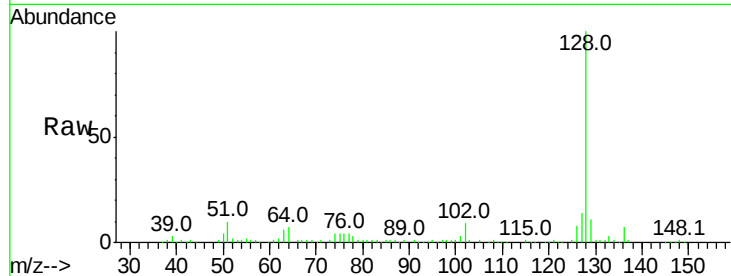
#31
Naphthalene
Concen: 4.086 ng
RT: 7.96 min Scan# 998
Delta R.T. -0.02 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Instrument :
BNA_F
ClientSampleId :
G-8-3

Tot Ion	Ratio	Resp	Lower	Upper
128	100	145945		
129	11.4	9.0	13.6	
127	13.5	10.8	16.2	

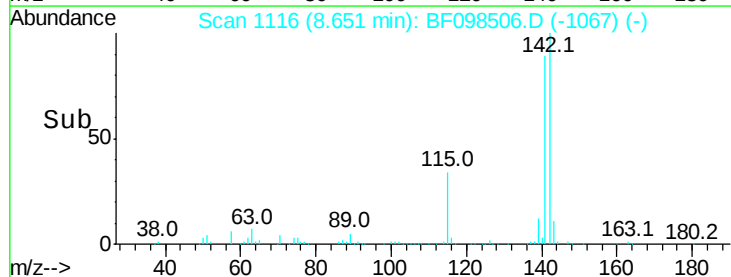
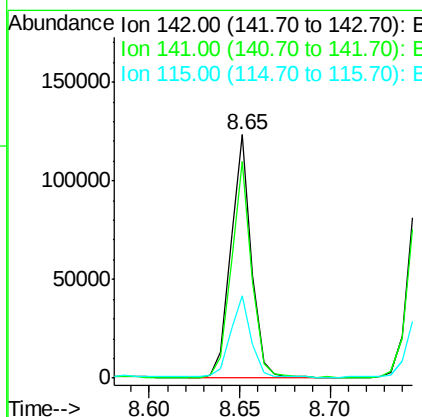
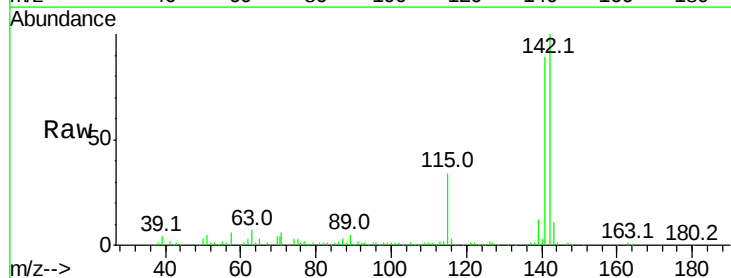
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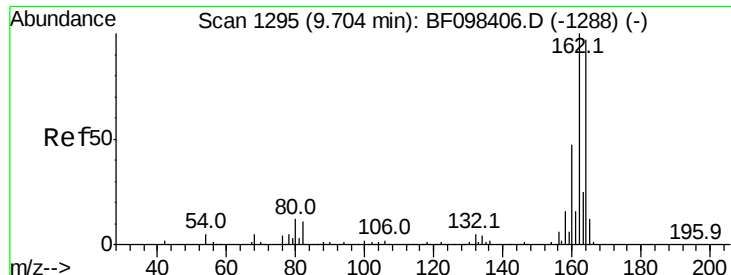
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#37
2-Methylnaphthalene
Concen: 4.522 ng
RT: 8.65 min Scan# 1116
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	97830		
141	88.8	71.3	106.9	
115	33.9	27.1	40.7	





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.69 min Scan# 1292

Delta R.T. -0.02 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

Instrument :

BNA_F

ClientSampleId :

G-8-3

Tot Ion:164 Resp: 304172

Ion Ratio Lower Upper

164 100

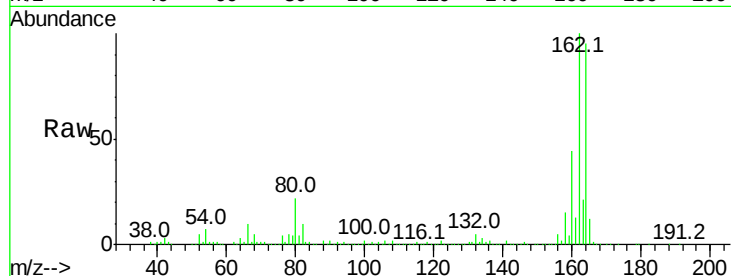
162 105.7 82.6 123.8

160 46.7 36.2 54.2

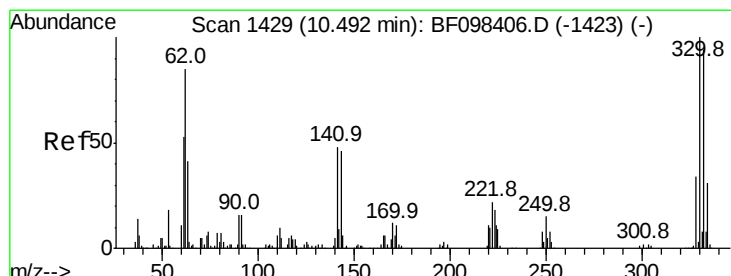
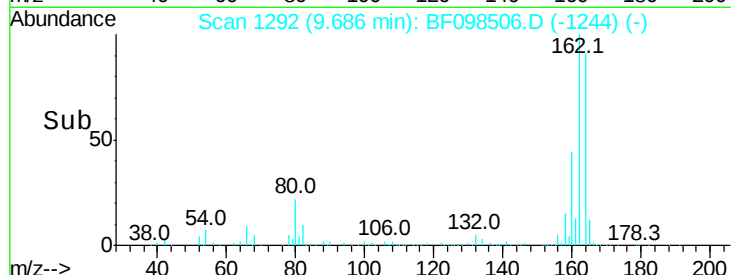
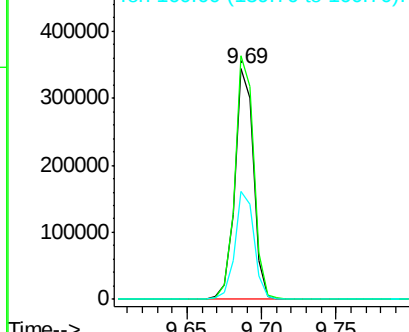
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Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 113.789 ng

RT: 10.48 min Scan# 1427

Delta R.T. -0.01 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

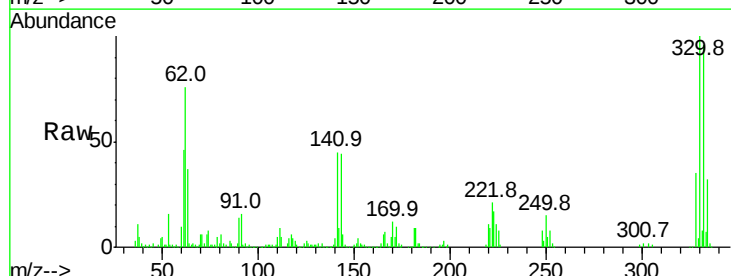
Tgt Ion:330 Resp: 231003

Ion Ratio Lower Upper

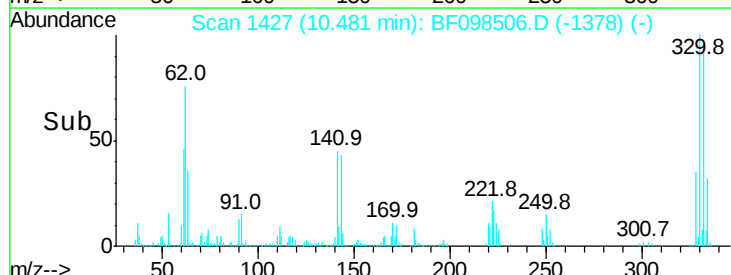
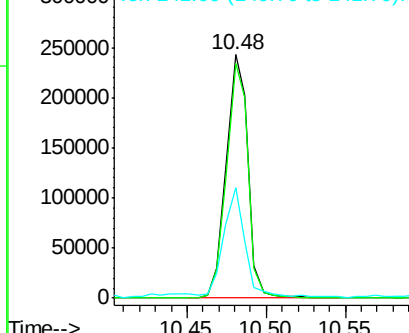
330 100

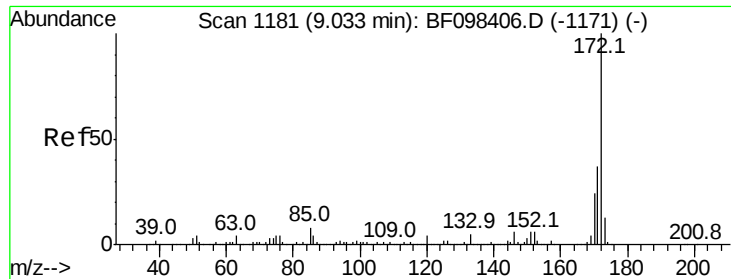
332 96.1 76.6 115.0

141 44.2 31.4 47.2



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: 94.731 ng

RT: 9.02 min Scan# 1178

Delta R.T. -0.02 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

Instrument :

BNA_F

ClientSampleId :

G-8-3

Tot Ion:172 Resp: 1700051

Ion Ratio Lower Upper

172 100

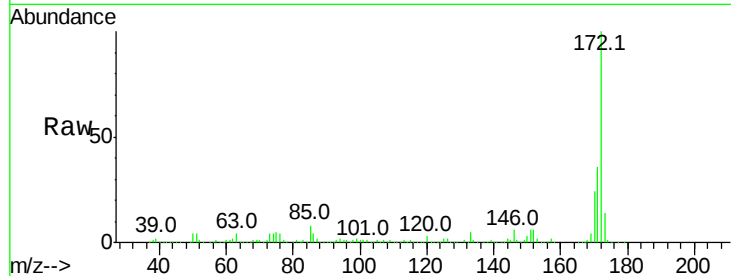
171 35.7 29.6 44.4

170 23.8 19.8 29.8

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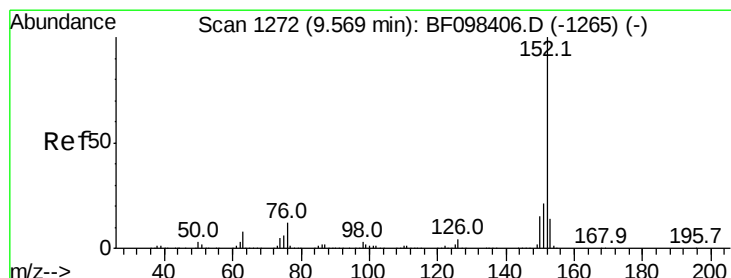
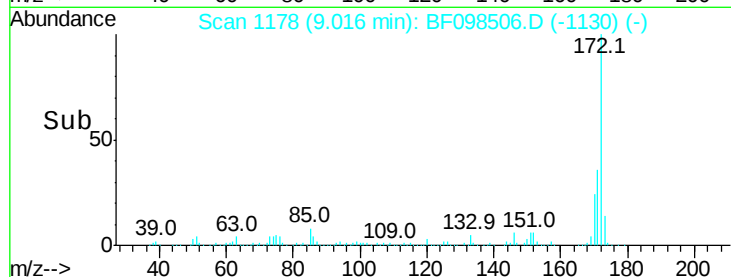
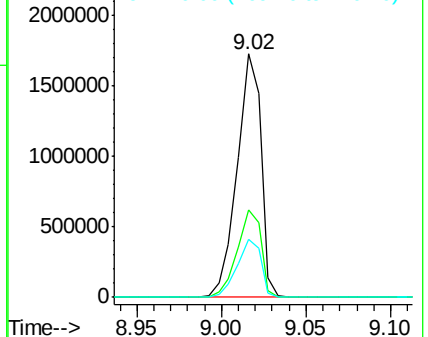
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Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#48

Acenaphthylene

Concen: 4.309 ng

RT: 9.55 min Scan# 1269

Delta R.T. -0.02 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

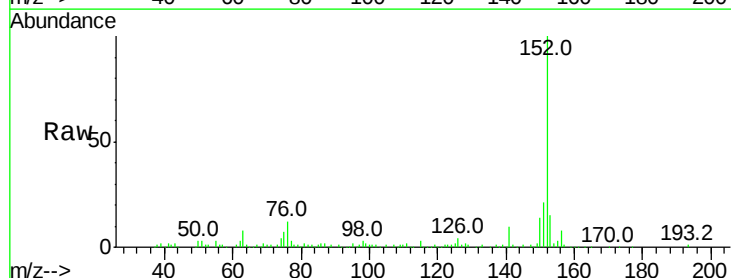
Tgt Ion:152 Resp: 124579

Ion Ratio Lower Upper

152 100

151 20.9 16.8 25.2

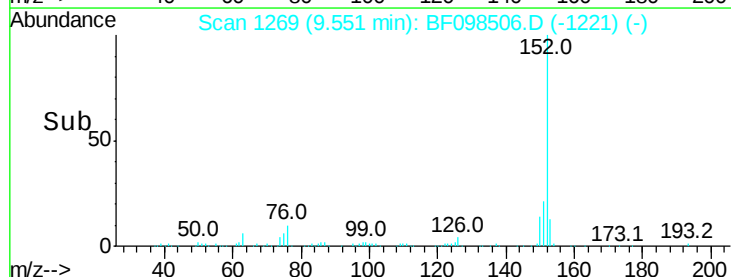
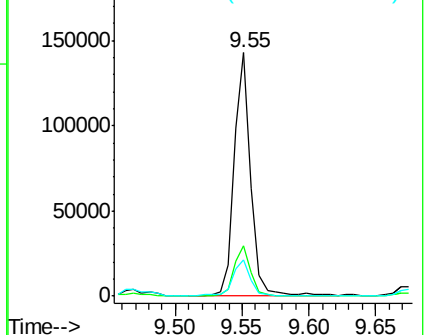
153 15.0 10.8 16.2

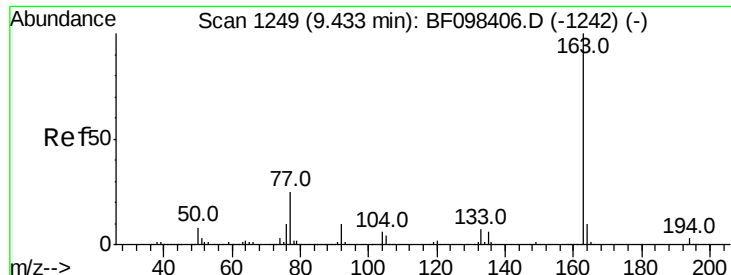


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





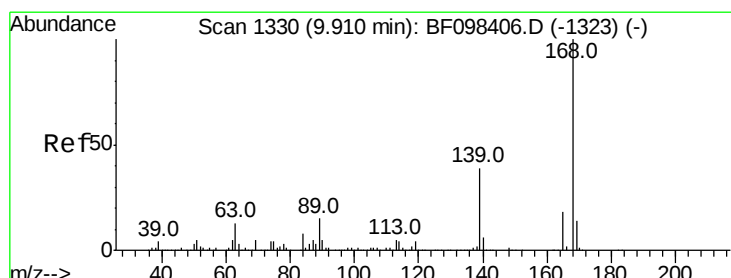
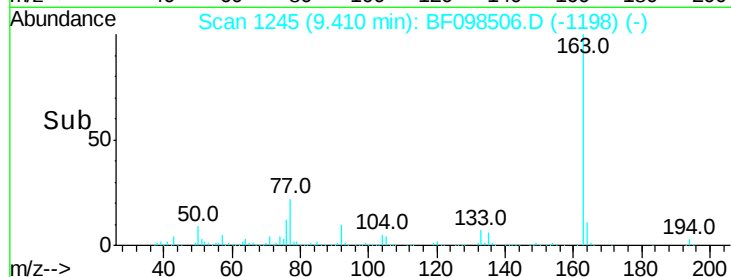
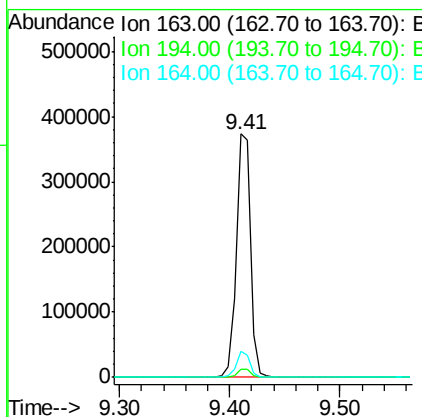
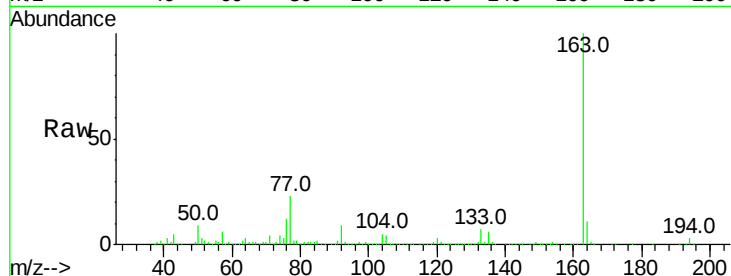
#49
Dimethylphthalate
Concen: 14.332 ng
RT: 9.41 min Scan# 1245
Delta R.T. -0.02 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Instrument :
BNA_F
ClientSampled :
G-8-3

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.3	2.6	4.0	
164	10.6	8.4	12.6	

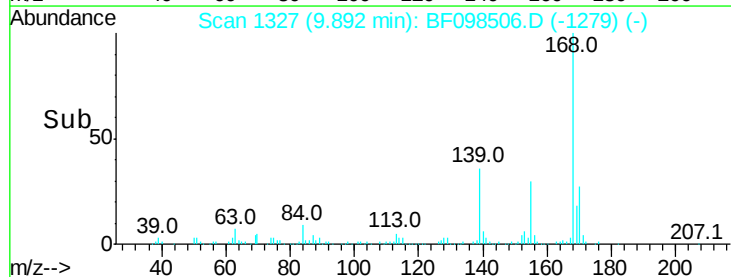
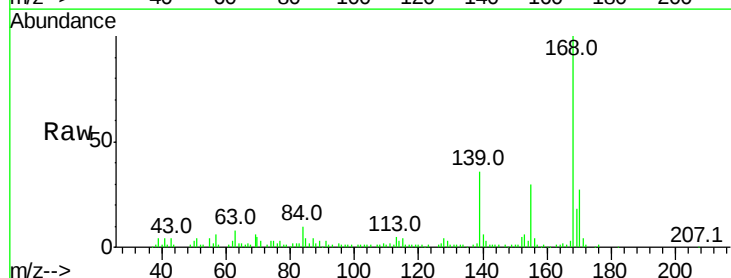
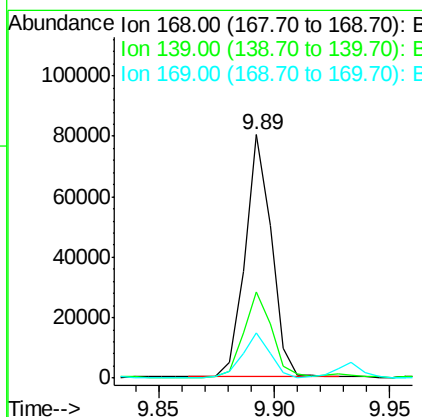
Manual Integrations
APPROVED

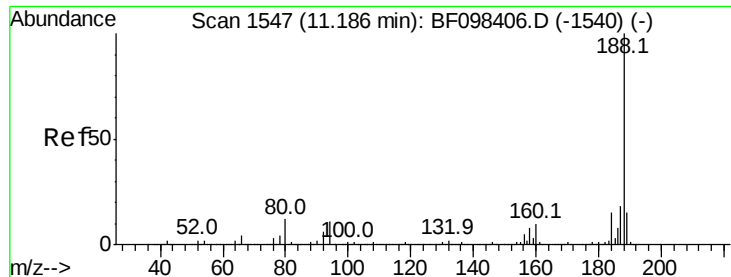
Sohil
9/14/2017 5:52:57 PM



#54
Dibenzofuran
Concen: 2.641 ng
RT: 9.89 min Scan# 1327
Delta R.T. -0.02 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Resp	Lower	Upper
168	100			
139	35.6	30.6	45.8	
169	18.3	10.8	16.2	





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.17 min Scan# 1544

Delta R.T. -0.02 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

Instrument :

BNA_F

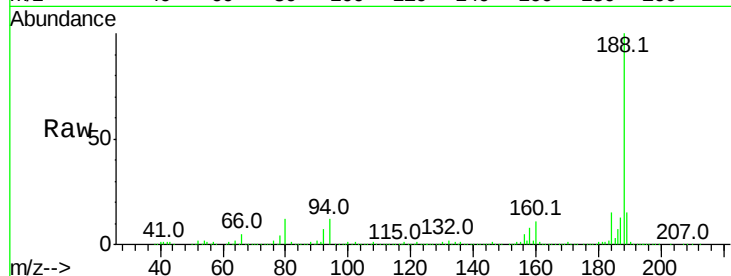
ClientSampleId :

G-8-3

Tot Ion:	188	Resp:	469846
Ion Ratio	Lower	Upper	
188	100		
94	11.7	9.4	14.2
80	12.4	10.2	15.2

Manual Integrations
APPROVED

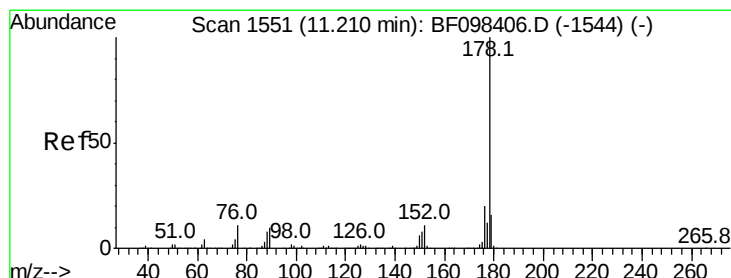
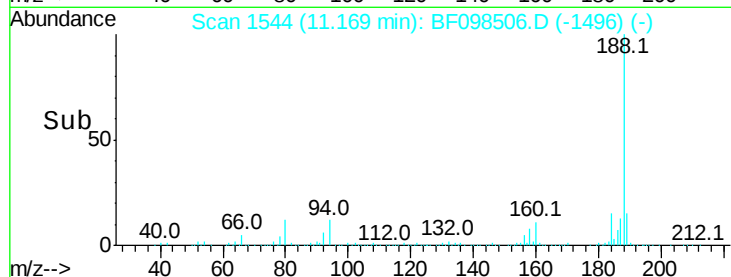
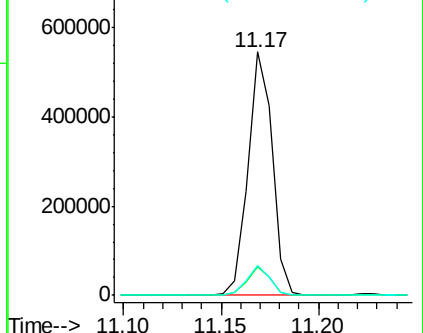
Sohil
9/14/2017 5:52:57 PM



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 10.674 ng

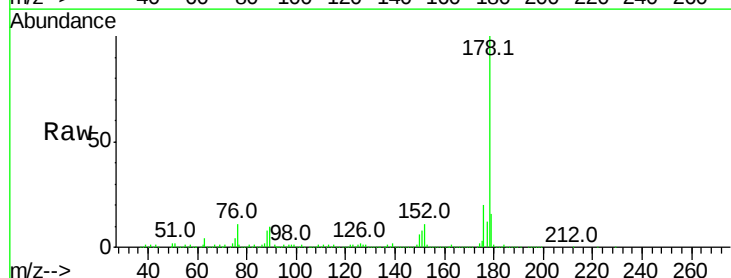
RT: 11.19 min Scan# 1548

Delta R.T. -0.02 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

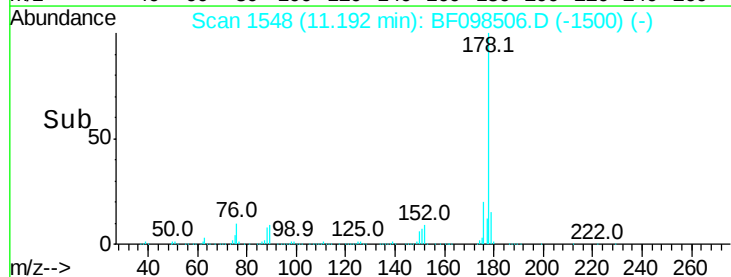
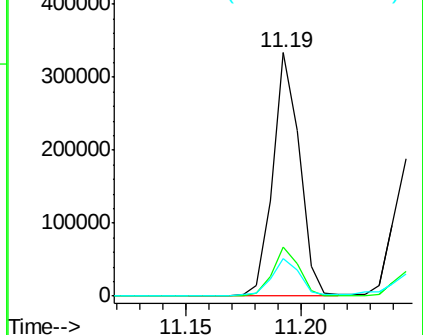
Tgt Ion:	178	Resp:	265874
Ion Ratio	Lower	Upper	
178	100		
176	20.1	16.2	24.4
179	15.5	12.6	19.0

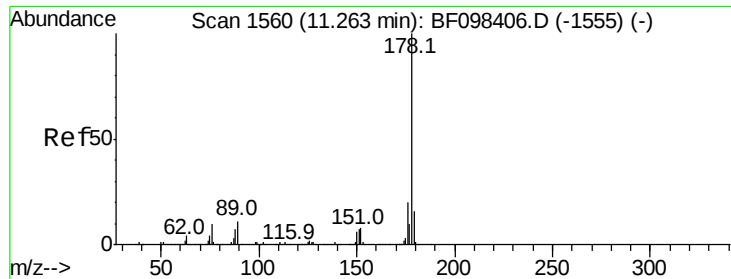


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





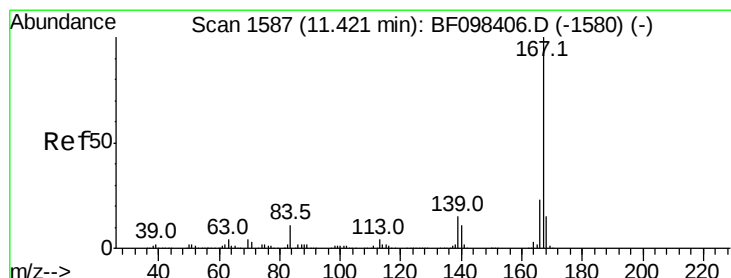
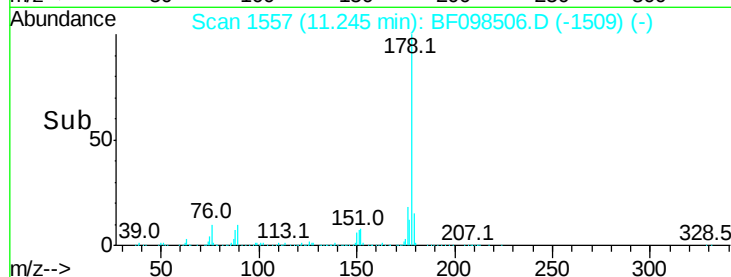
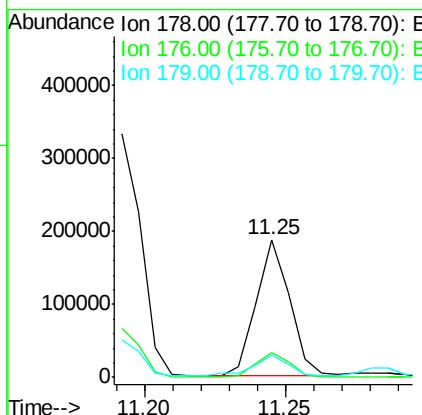
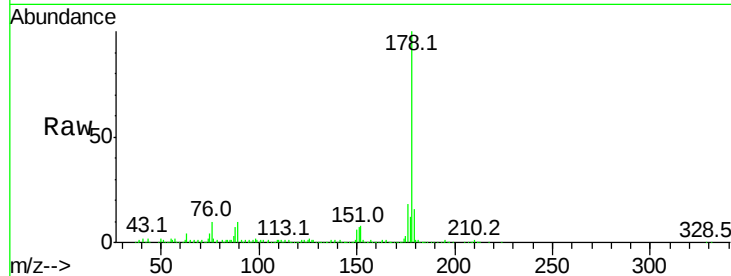
#71
 Anthracene
 Concen: 6.091 ng
 RT: 11.25 min Scan# 1557
 Delta R.T. -0.02 min
 Lab File: BF098506.D
 Acq: 13 Sep 2017 23:04

Instrument :
 BNA_F
 ClientSampled :
 G-8-3

Tot Ion	Ratio	Lower	Upper
178	100		
176	17.9	15.8	23.8
179	15.9	12.7	19.1

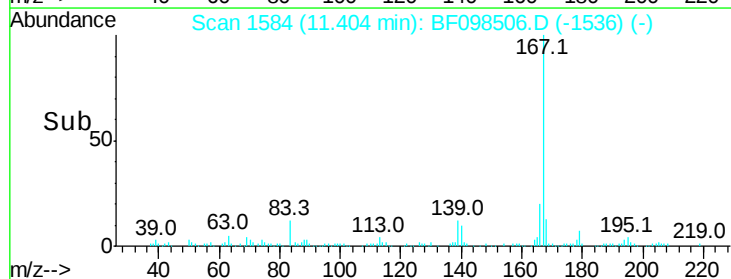
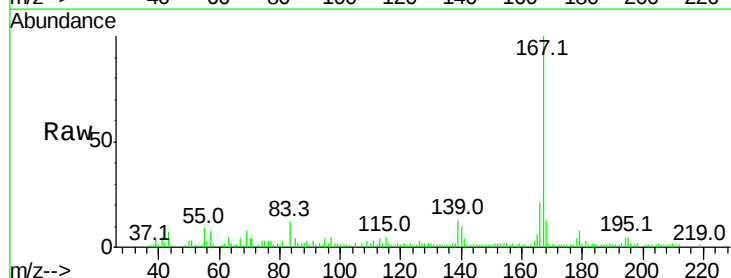
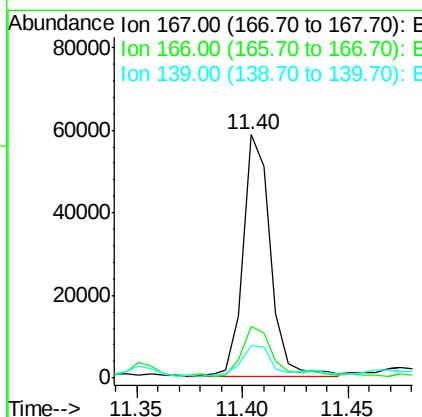
Manual Integrations
 APPROVED

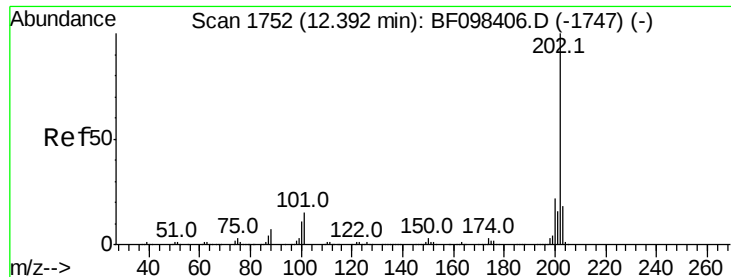
Sohil
 9/14/2017 5:52:57 PM



#72
 Carbazole
 Concen: 2.192 ng
 RT: 11.40 min Scan# 1584
 Delta R.T. -0.02 min
 Lab File: BF098506.D
 Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.1	18.1	27.1
139	13.3	11.7	17.5





#74

Fluoranthene

Concen: 21.517 ng

RT: 12.38 min Scan# 1750

Delta R.T. -0.01 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

Instrument :

BNA_F

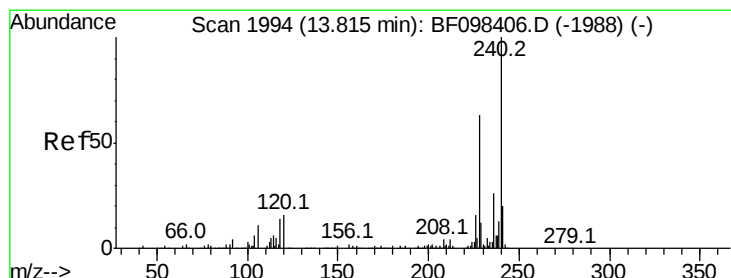
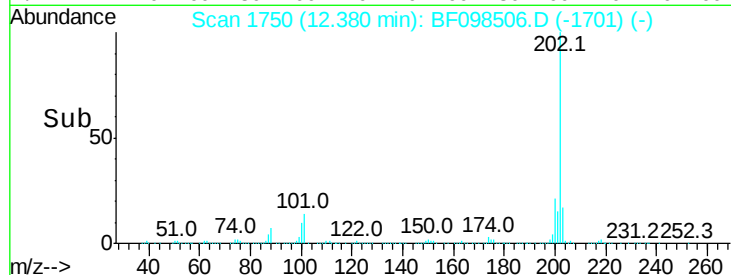
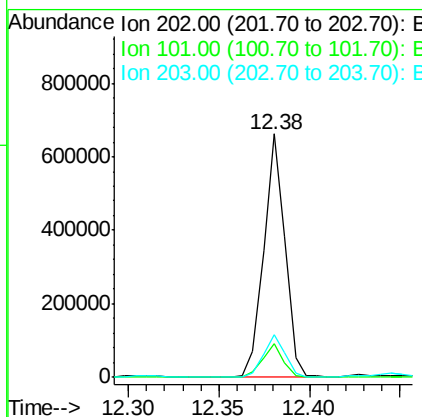
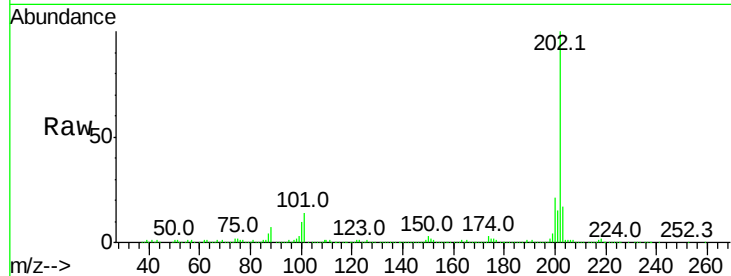
ClientSampled :

G-8-3

Tot Ion	Ratio	Resp Lower	Upper
202	100		
101	13.7	0.0	33.2
203	17.5	0.0	38.1

Manual Integrations
APPROVED

Sohil
9/14/2017 5:52:57 PM



#75

Chrysene-d12

Concen: 20.000 ng

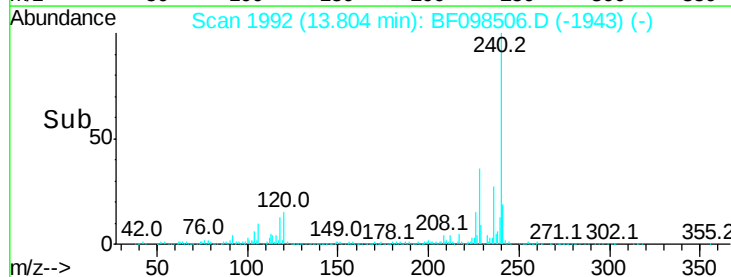
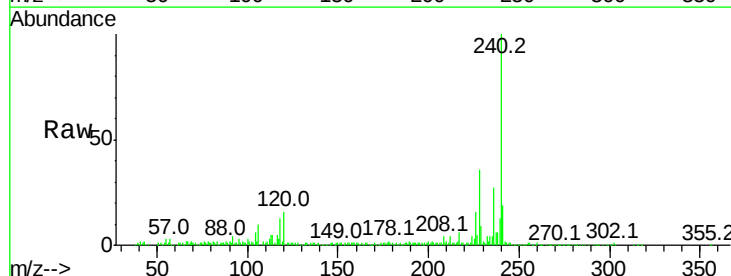
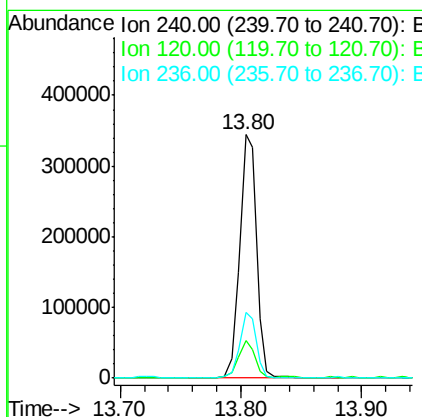
RT: 13.80 min Scan# 1992

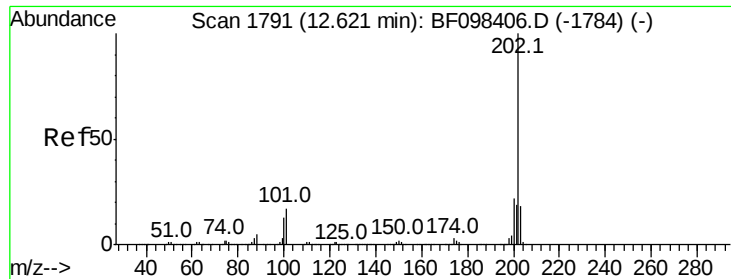
Delta R.T. -0.01 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Resp Lower	Upper
240	100		
120	15.6	5.8	8.8#
236	26.9	20.5	30.7





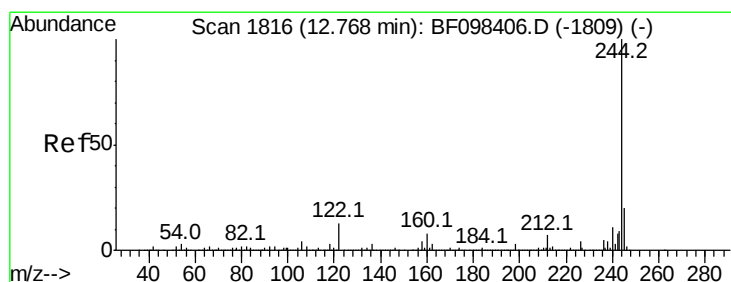
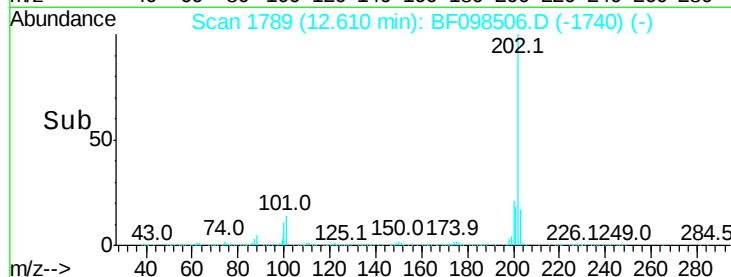
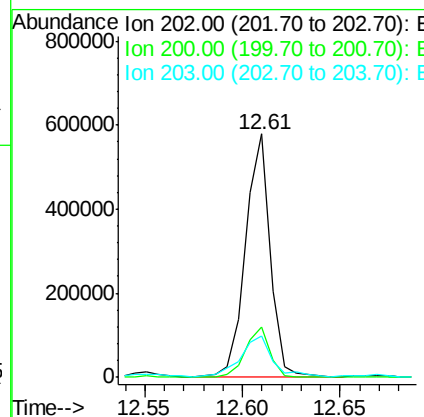
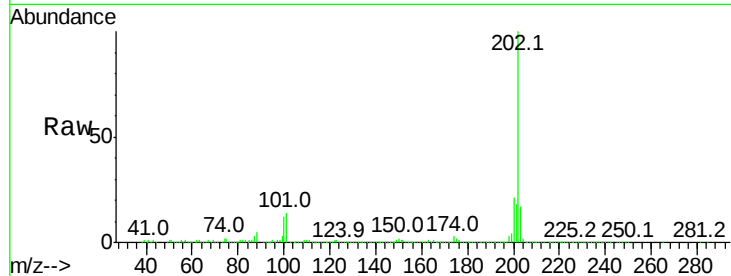
#77
Pvrene
Concen: 18.862 ng
RT: 12.61 min Scan# 1789
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Instrument :
BNA_F
ClientSampled :
G-8-3

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	20.7	17.6	26.4
203	17.1	14.4	21.6

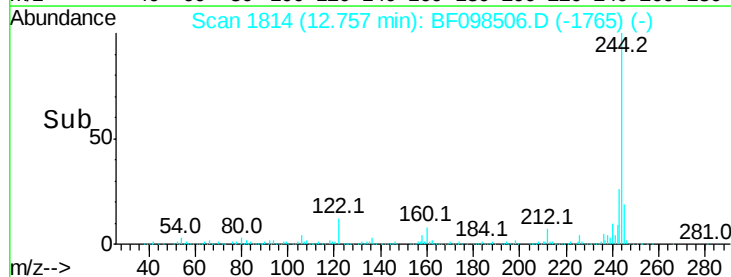
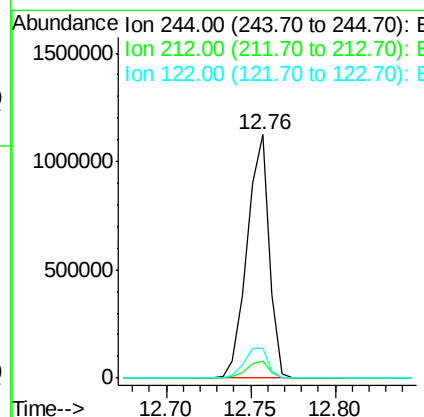
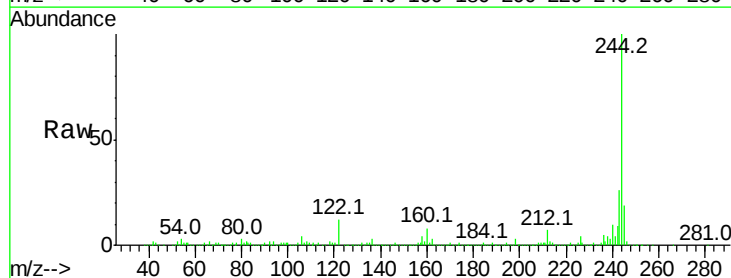
Manual Integrations
APPROVED

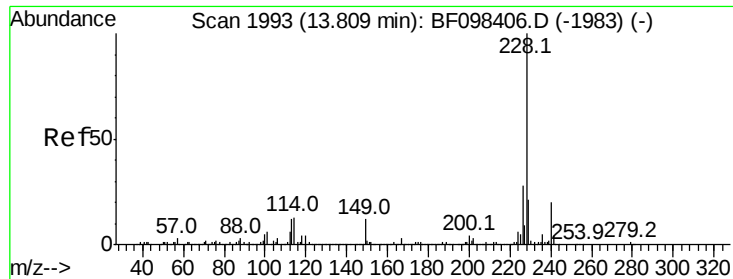
Sohil
9/14/2017 5:52:57 PM



#78
Terphenyl-d14
Concen: 65.629 ng
RT: 12.76 min Scan# 1814
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	7.2	6.0	9.0
122	12.2	10.3	15.5





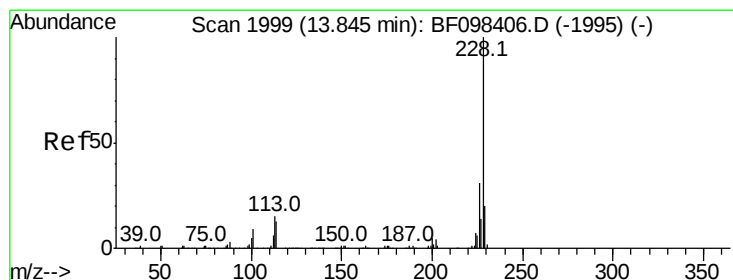
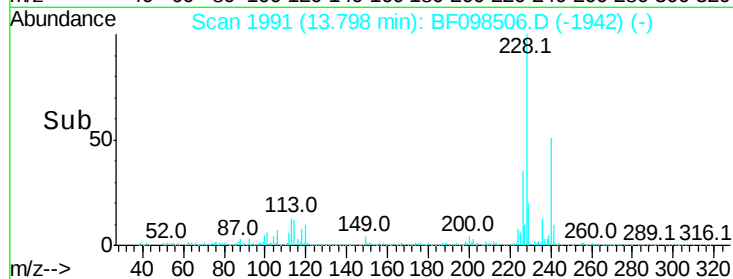
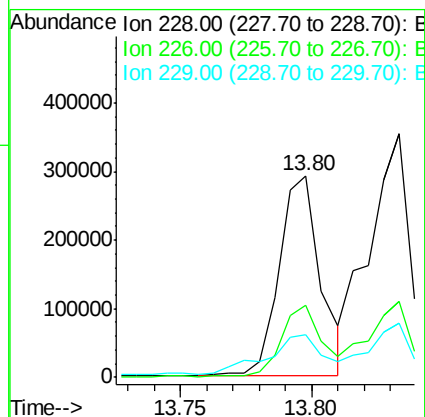
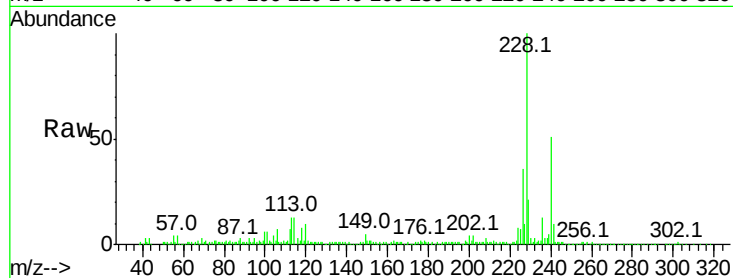
#80
Benzo(a)anthracene
Concen: 16.197 ng m
RT: 13.80 min Scan# 1991
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Instrument :
BNA_F
ClientSampled :
G-8-3

Tot Ion	Ratio	Lower	Upper
228	100		
226	35.6	22.6	33.8#
229	21.2	16.3	24.5

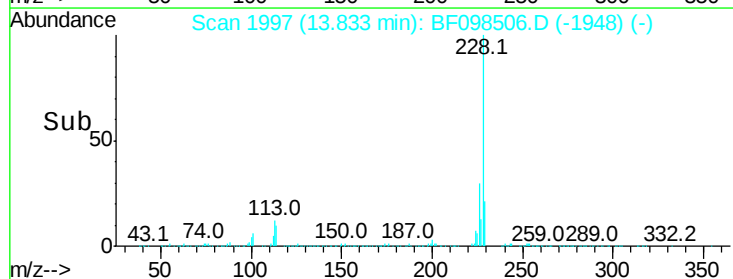
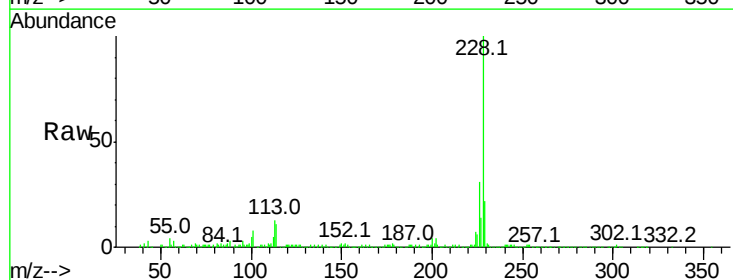
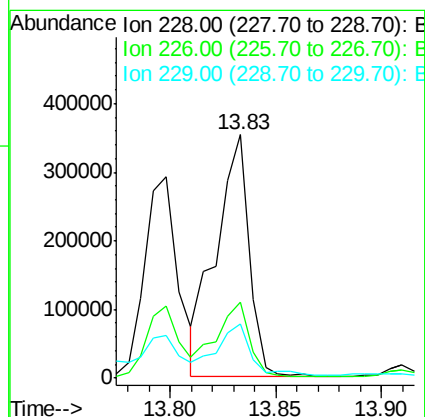
Manual Integrations
APPROVED

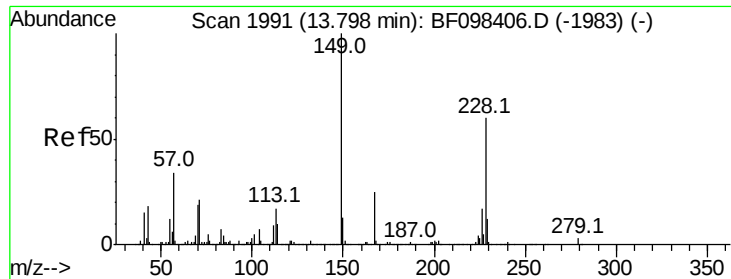
Sohil
9/14/2017 5:52:57 PM



#82
Chrysene
Concen: 19.308 ng
RT: 13.83 min Scan# 1997
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.0	24.9	37.3
229	22.1	15.8	23.6





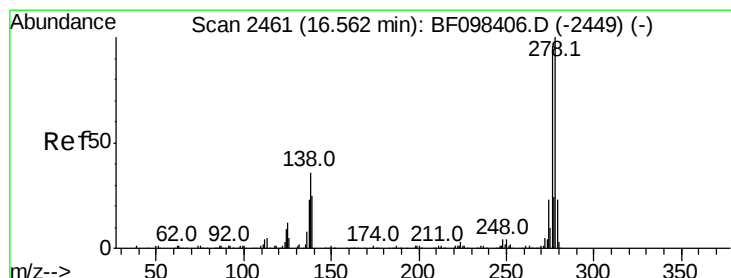
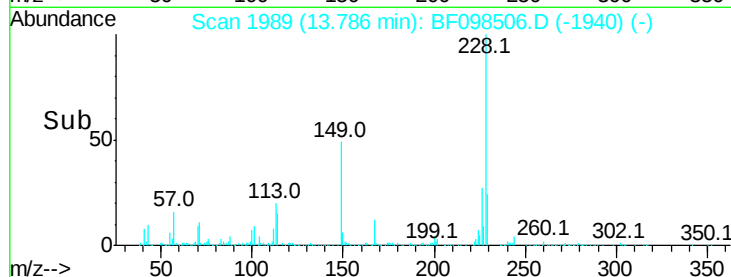
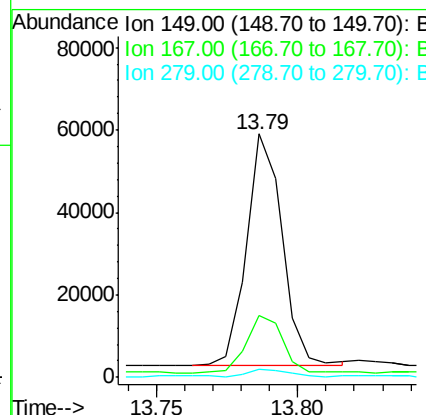
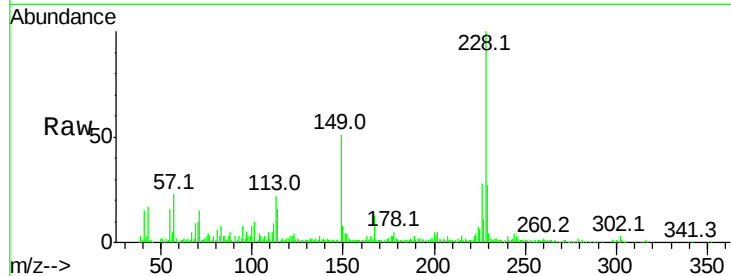
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 3.419 ng
 RT: 13.79 min Scan# 1989
 Delta R.T. -0.01 min
 Lab File: BF098506.D
 Acq: 13 Sep 2017 23:04

Instrument :
 BNA_F
 ClientSampled :
 G-8-3

Tot Ion	Ratio	Lower	Upper
149	100		
167	25.7	21.0	31.4
279	3.2	1.9	2.9

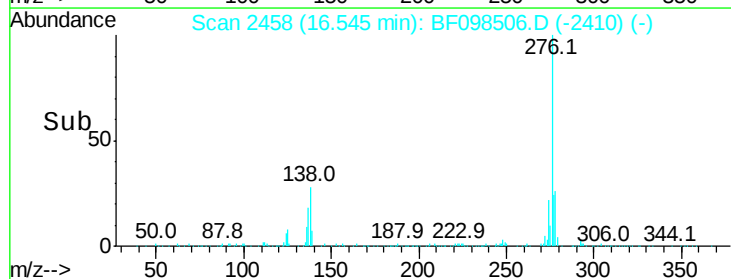
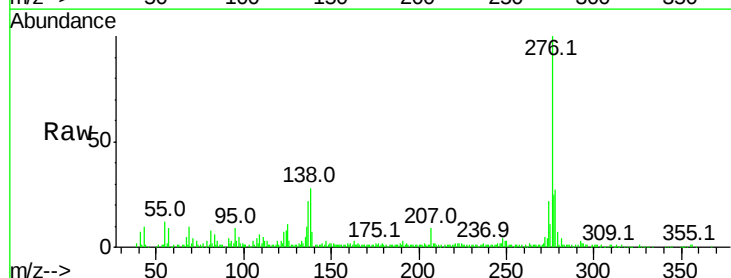
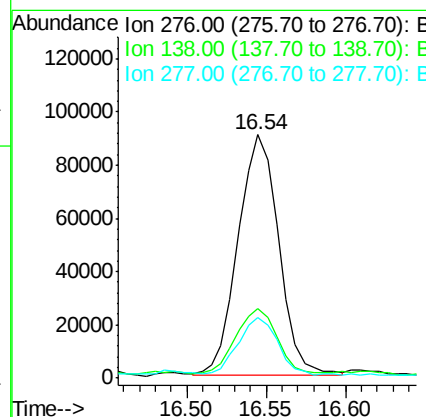
Manual Integrations
 APPROVED

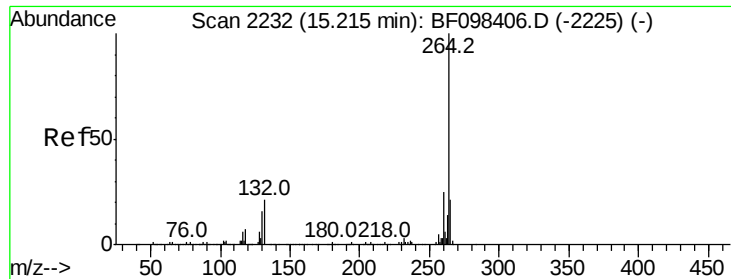
Sohil
 9/14/2017 5:52:57 PM



#85
 Indeno(1,2,3-cd)pyrene
 Concen: 11.594 ng
 RT: 16.54 min Scan# 2458
 Delta R.T. -0.02 min
 Lab File: BF098506.D
 Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Lower	Upper
276	100		
138	28.1	27.8	41.6
277	22.4	20.2	30.4





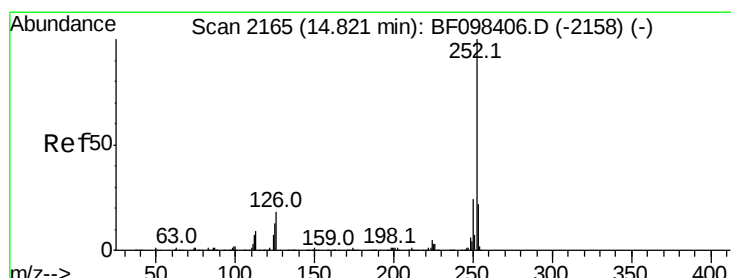
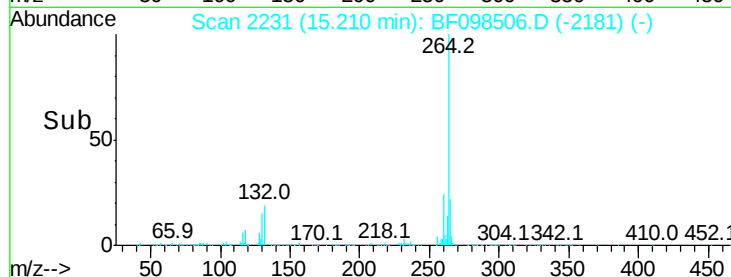
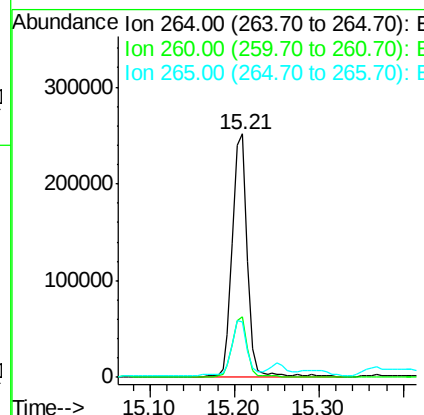
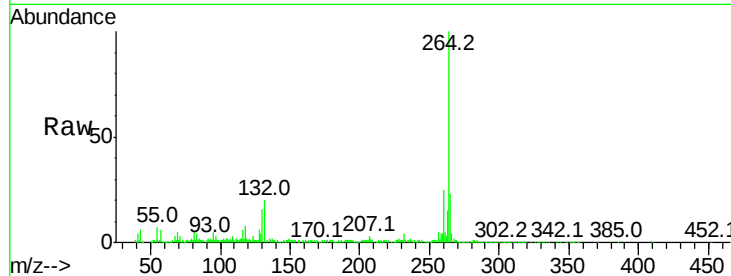
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.21 min Scan# 2231
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Instrument :
BNA_F
ClientSampleId :
G-8-3

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	22.7	17.2	25.8

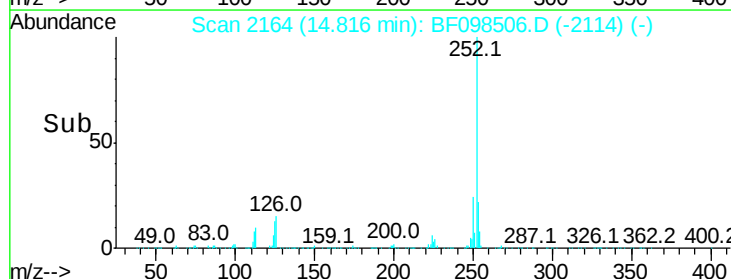
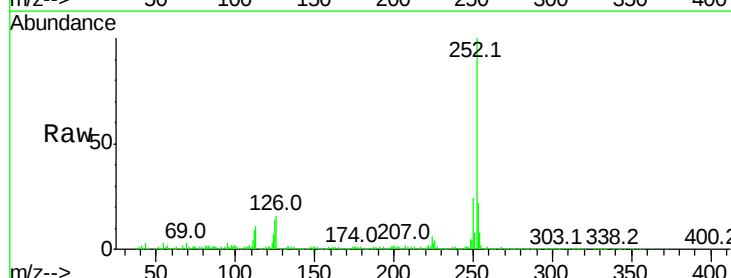
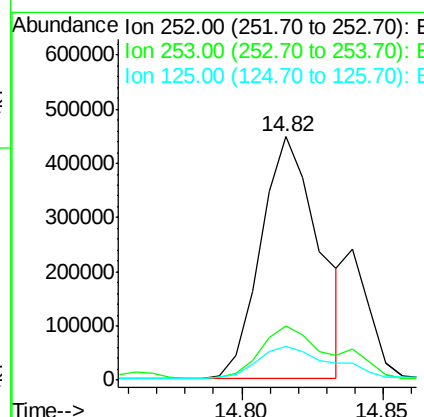
Manual Integrations
APPROVED

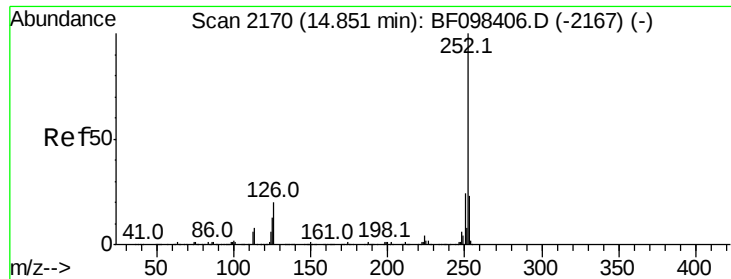
Sohil
9/14/2017 5:52:57 PM



#87
Benzo(b)fluoranthene
Concen: 33.306 ng m
RT: 14.82 min Scan# 2164
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	18.1	27.1
125	14.1	9.8	14.8





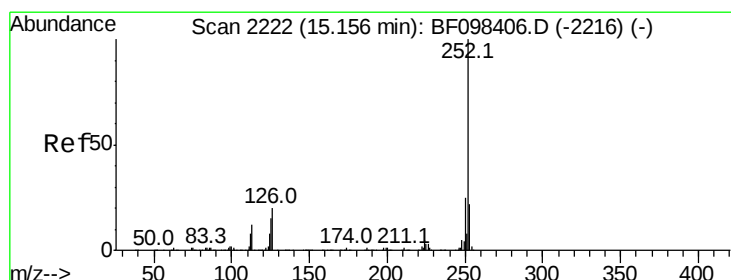
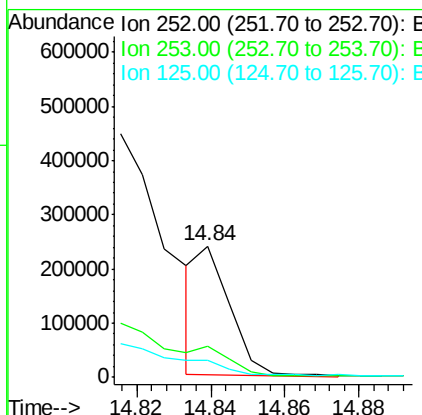
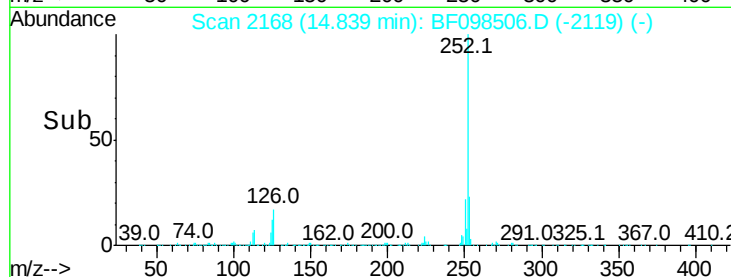
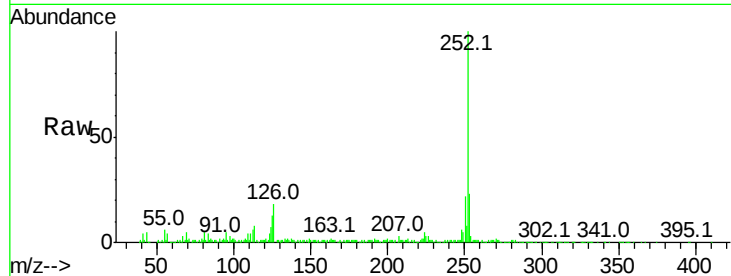
#88
Benzo(k)fluoranthene
Concen: 7.982 ng m
RT: 14.84 min Scan# 2168
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Instrument :
BNA_F
ClientSampled :
G-8-3

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.5	18.4	27.6
125	13.3	13.1	19.7

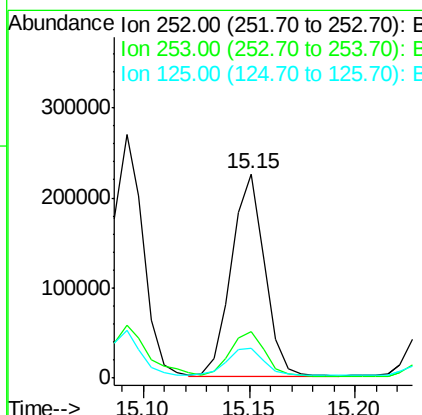
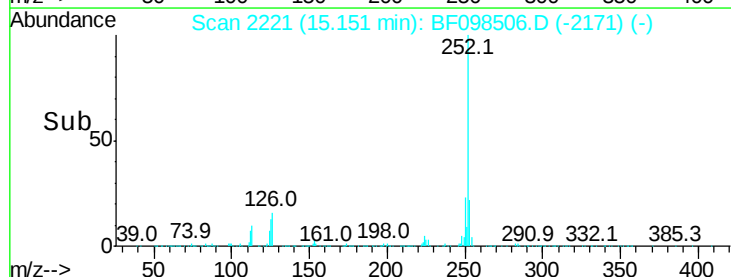
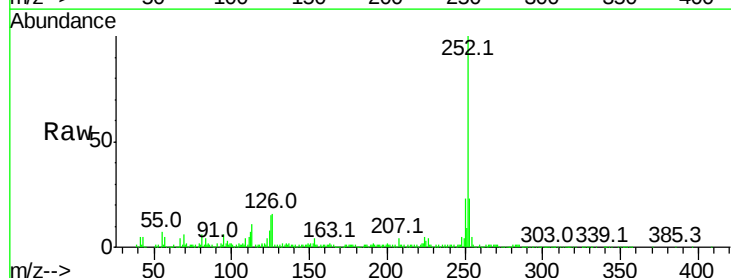
Manual Integrations
APPROVED

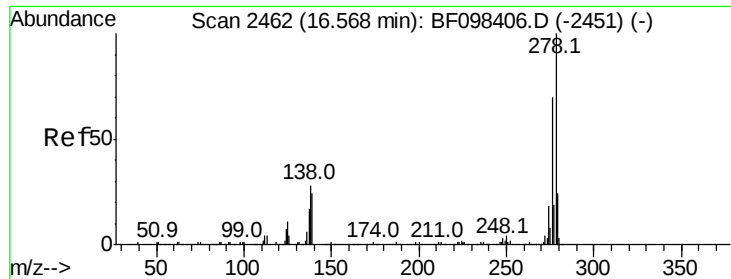
Sohil
9/14/2017 5:52:57 PM



#89
Benzo(a)pyrene
Concen: 14.311 ng
RT: 15.15 min Scan# 2221
Delta R.T. -0.01 min
Lab File: BF098506.D
Acq: 13 Sep 2017 23:04

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.5	26.3
125	14.6	11.0	16.4





#90

Dibenzo(a,h)anthracene

Concen: 4.049 ng

RT: 16.54 min Scan# 2458

Delta R.T. -0.02 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

Instrument :

BNA_F

ClientSampleId :

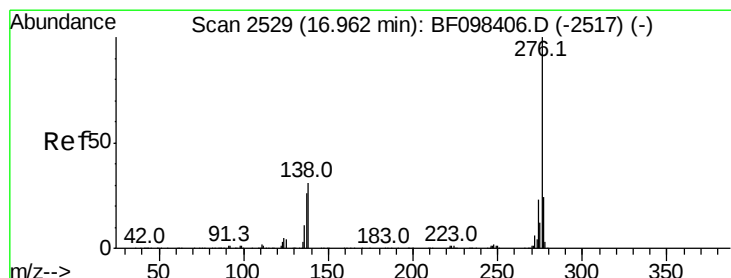
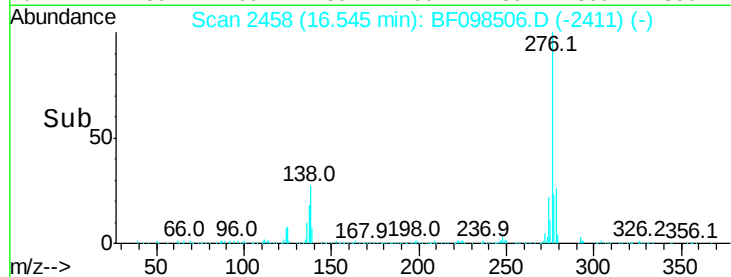
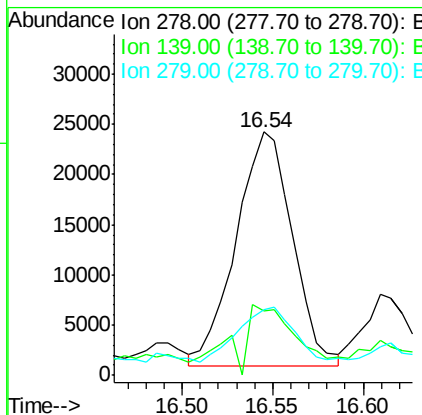
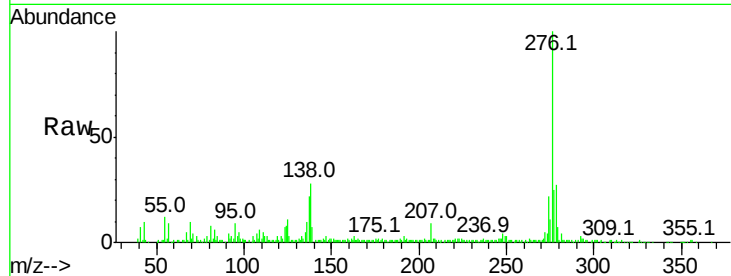
G-8-3

Tot Ion:	278	Resp:	50523
Ion Ratio	Lower	Upper	
278	100		
139	26.5	16.6	24.8#
279	26.7	19.3	28.9

Manual Integrations
APPROVED

Sohil

9/14/2017 5:52:57 PM



#91

Benzo(g,h,i)perylene

Concen: 11.390 ng

RT: 16.95 min Scan# 2527

Delta R.T. -0.01 min

Lab File: BF098506.D

Acq: 13 Sep 2017 23:04

Tgt Ion:	276	Resp:	142952
Ion Ratio	Lower	Upper	
276	100		
277	24.4	18.6	28.0
138	29.8	25.4	38.0

