

Data Path : Z:\HPCHEM1\BNA F\DATA\BF031218\
 Data File : BF103572.D
 Acq On : 12 Mar 2018 10:53
 Operator : SJ/JU
 Sample : J1776-02
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-1-3FT

Manual Integrations
 APPROVED

Sohil
 3/13/2018 4:12:39 PM

Quant Time: Mar 12 12:51:51 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 09 11:47:13 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	155451	20.00	ng	0.00
21) Naphthalene-d8	8.14	136	644612	20.00	ng	-0.01
38) Acenaphthene-d10	9.90	164	271585	20.00	ng	-0.01
63) Phenanthrene-d10	11.40	188	415267	20.00	ng	0.00
75) Chrysene-d12	14.06	240	222177	20.00	ng	0.00
86) Perylene-d12	15.57	264	232433	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	988619	96.19	ng	0.00
7) Phenol-d6	6.51	99	1221475	97.12	ng	0.00
23) Nitrobenzene-d5	7.43	82	762464	67.55	ng	-0.01
41) 2,4,6-Tribromophenol	10.70	330	174336	75.84	ng	0.00
44) 2-Fluorobiphenyl	9.22	172	1012262	59.70	ng	0.00
78) Terphenyl-d14	12.98	244	665701	72.03	ng	0.00
Target Compounds						
9) Benzaldehyde	6.50	77	2752	Below Cal		Qvalue # 17
31) Naphthalene	8.16	128	111415	3.530 ng		99
32) Benzoic acid	7.96	122	4492m	7.493 ng		
37) 2-Methylnaphthalene	8.86	142	66632	3.267 ng		93
48) Acenaphthylene	9.76	152	153155	5.529 ng		99
49) Dimethylphthalate	9.61	163	92926	4.265 ng		99
51) Acenaphthene	9.93	154	136045	8.422 ng		98
54) Dibenzofuran	10.11	168	106964	4.824 ng		97
57) Fluorene	10.45	166	219464	11.618 ng		100
70) Phenanthrene	11.42	178	1145616	50.129 ng		99
71) Anthracene	11.47	178	389355	16.614 ng		99
72) Carbazole	11.64	167	119236	5.109 ng		97
74) Fluoranthene	12.62	202	1287788	56.076 ng		98
77) Pyrene	12.86	202	1368886	79.025 ng		100
80) Benzo(a)anthracene	14.05	228	505328	35.054 ng		96
82) Chrysene	14.09	228	552522m	39.474 ng		
85) Indeno(1,2,3-cd)pyrene	17.13	276	222889	20.114 ng		94
87) Benzo(b)fluoranthene	15.13	252	584021m	38.216 ng		
88) Benzo(k)fluoranthene	15.16	252	168067m	11.679 ng		
89) Benzo(a)pyrene	15.52	252	478734	35.080 ng		96
90) Dibenz(a,h)anthracene	17.13	278	53441	5.068 ng	#	71
91) Benzo(g,h,i)perylene	17.60	276	212868	20.654 ng		93

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

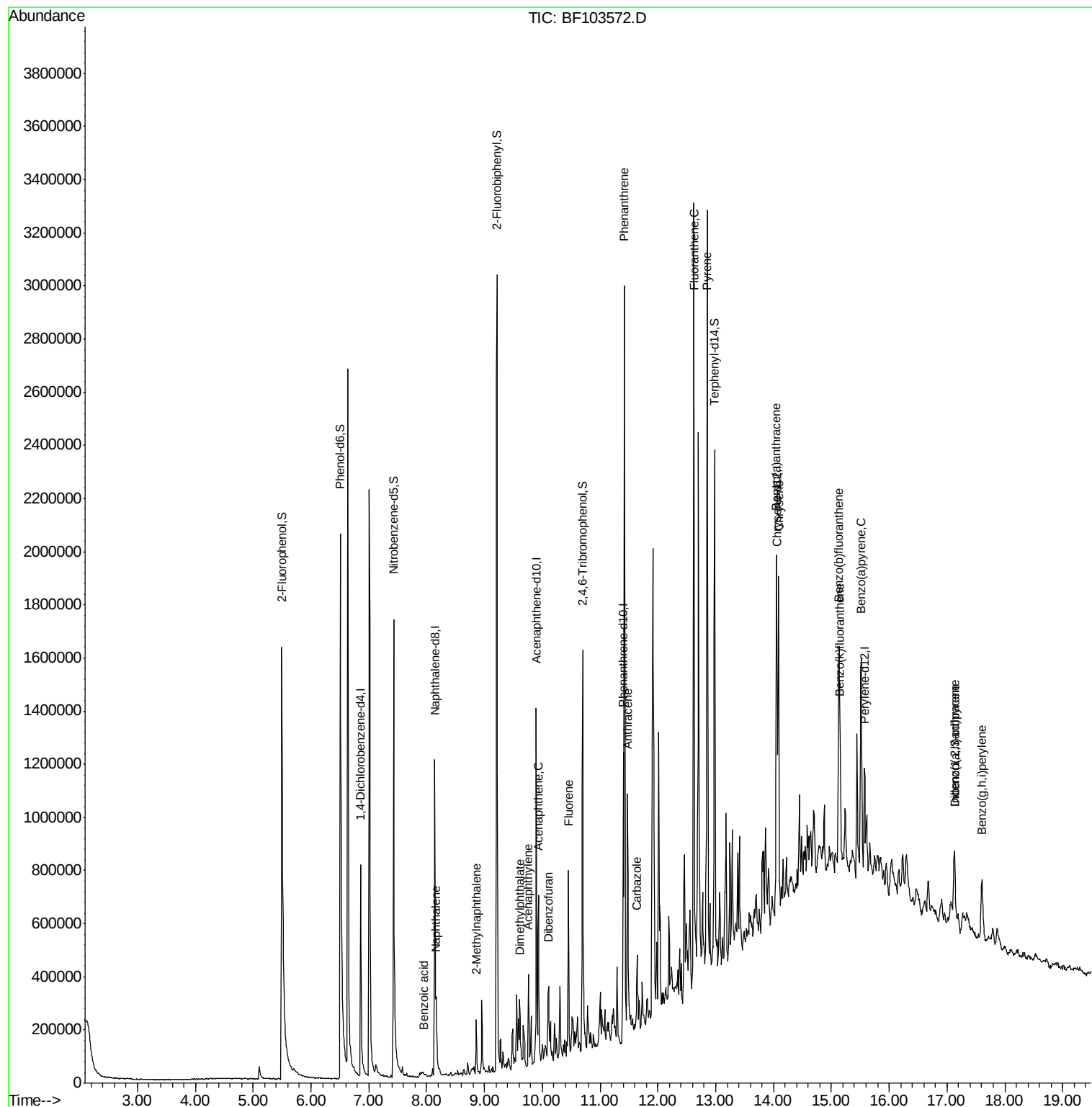
Data Path : Z:\HPCHEM1\BNA F\DATA\BF031218\
Data File : BF103572.D
Acq On : 12 Mar 2018 10:53
Operator : SJ/JU
Sample : J1776-02
Misc :
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Instrument :
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Response via : Initial Calibration





#1

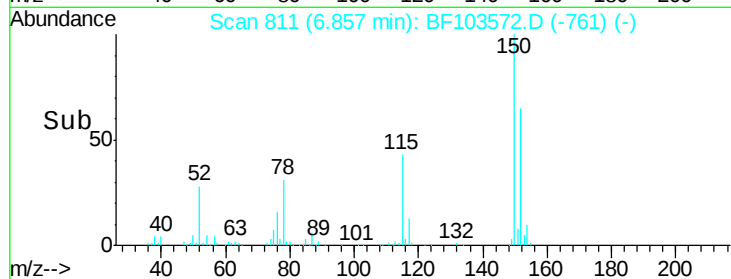
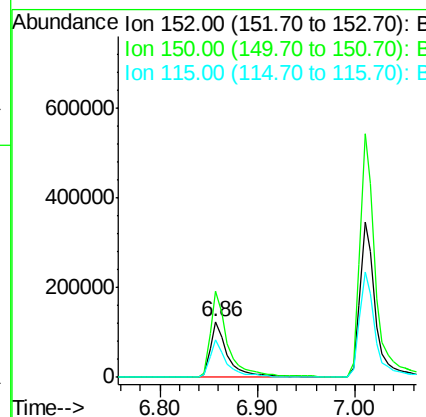
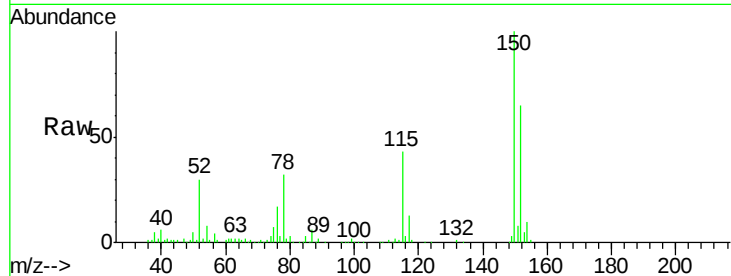
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 811
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Instrument :
BNA_F
ClientSampleId :
TP-1-3FT

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.4	124.6	186.8
115	66.8	50.1	75.1

Manual Integrations
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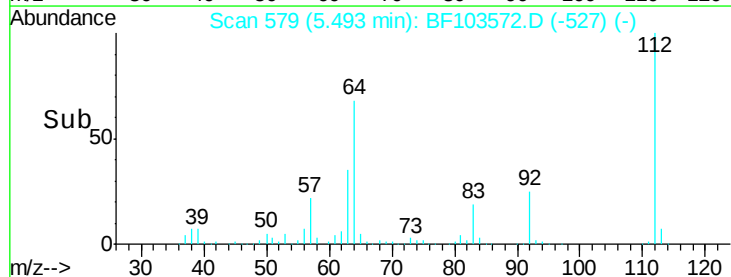
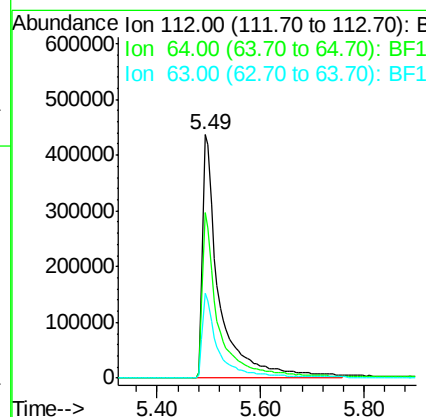
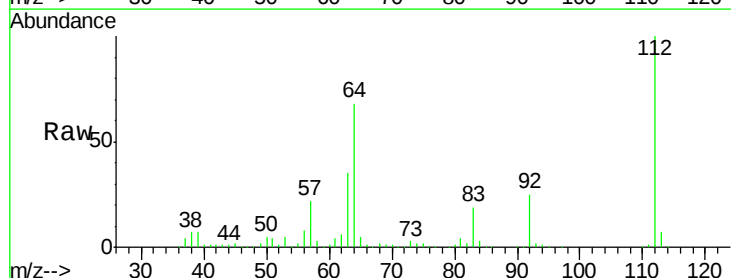
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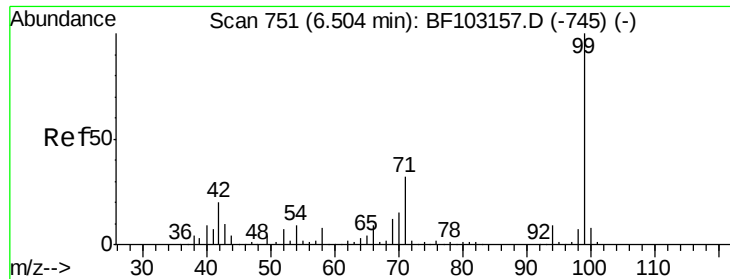


#5

2-Fluorophenol
Concen: 96.186 ng
RT: 5.49 min Scan# 579
Delta R.T. 0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.8	47.9	71.9
63	35.1	23.7	35.5





#7

Phenol-d6

Concen: 97.120 ng

RT: 6.51 min Scan# 752

Delta R.T. 0.00 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Instrument :

BNA_F

ClientSampleId :

TP-1-3FT

Tot Ion: 99 Resp: 1221475

Ion Ratio Lower Upper

99 100

42 20.9 14.5 21.7

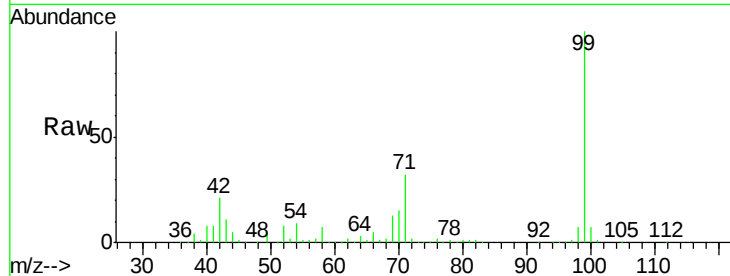
71 32.3 25.4 38.0

Manual Integrations

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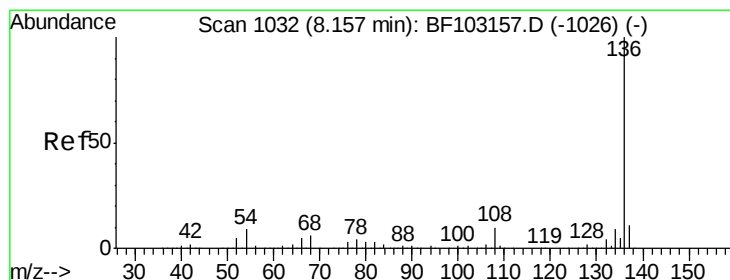
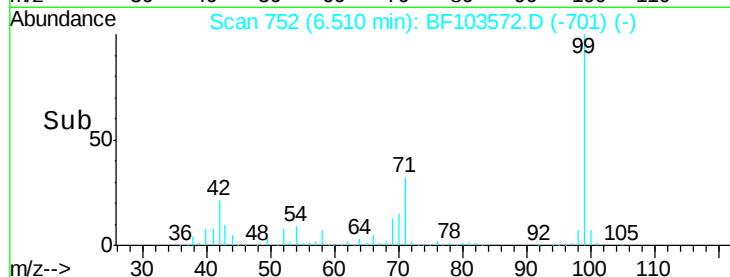
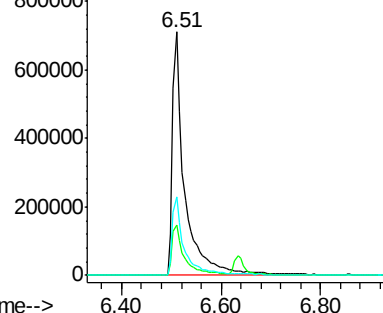
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Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.14 min Scan# 1029

Delta R.T. -0.01 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Tgt Ion: 136 Resp: 644612

Ion Ratio Lower Upper

136 100

137 11.2 8.9 13.3

54 9.9 6.6 9.8#

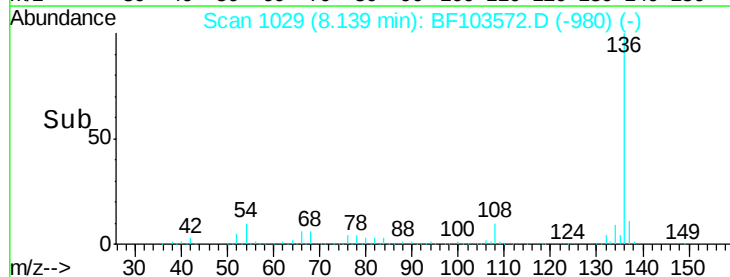
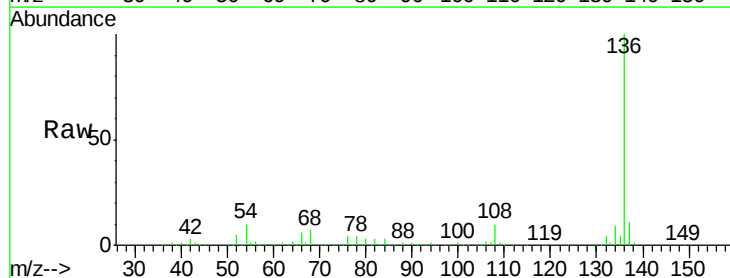
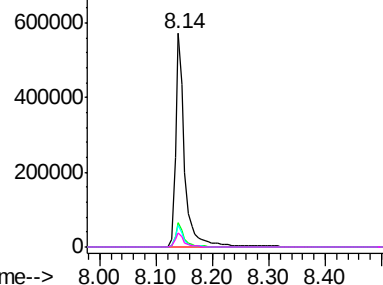
68 6.5 5.0 7.4

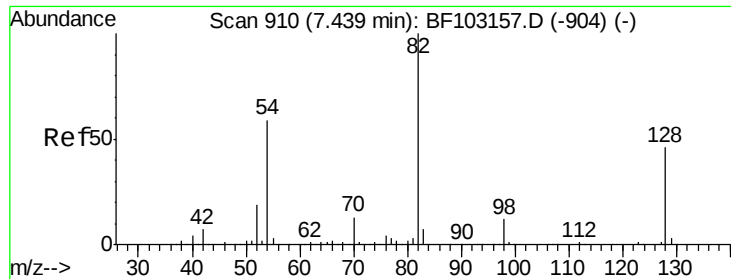
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





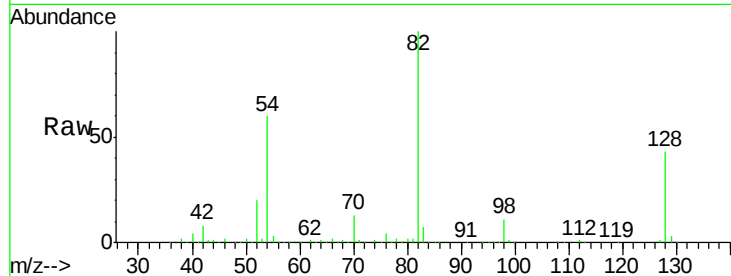
#23
Nitrobenzene-d5
Concen: 67.549 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Instrument :
BNA_F
ClientSampleId :
TP-1-3FT

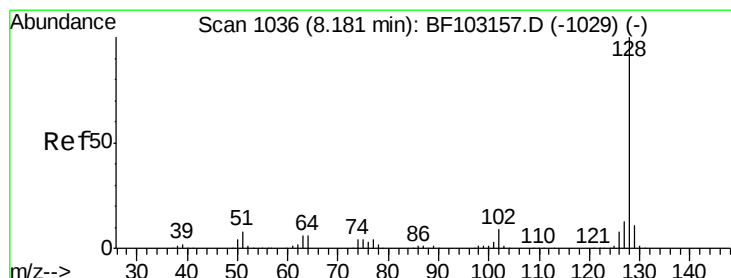
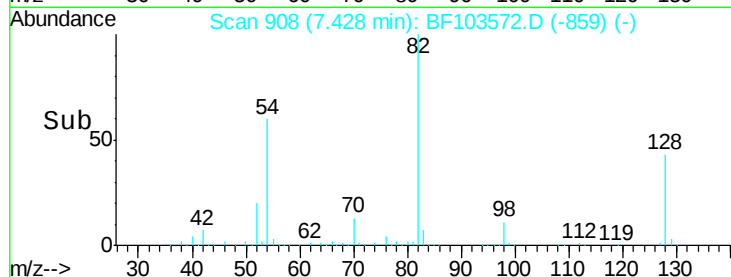
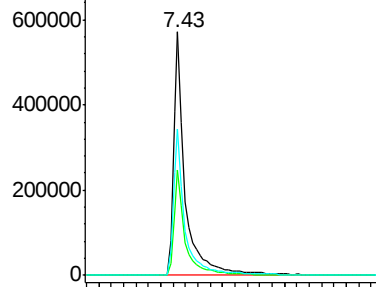
Tot Ion	Ratio	Resp	Lower	Upper
82	100	762464		
128	43.1	36.1	54.1	
54	60.1	41.4	62.2	

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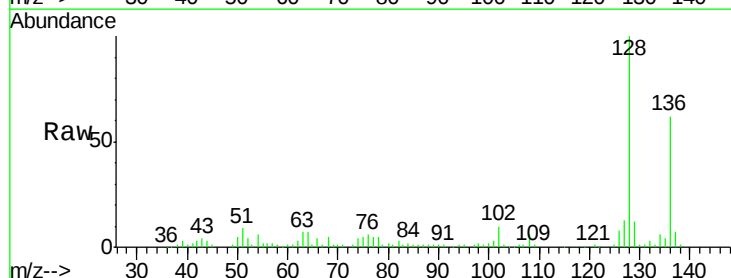


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

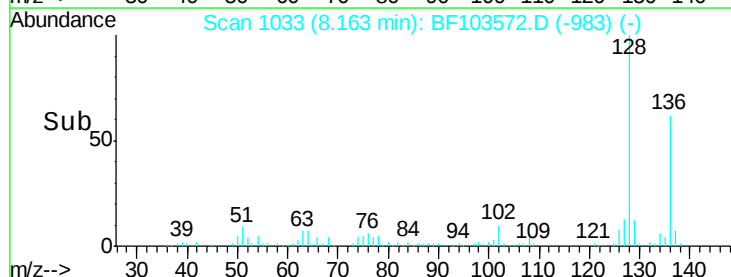
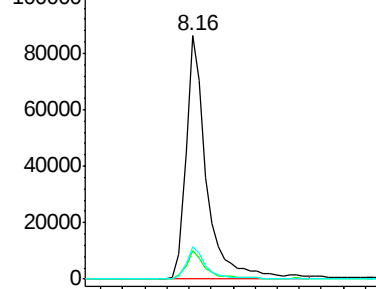


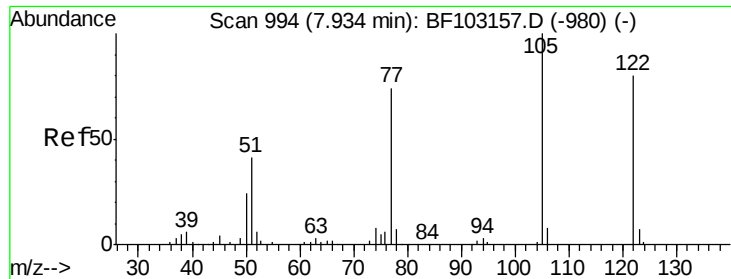
#31
Naphthalene
Concen: 3.530 ng
RT: 8.16 min Scan# 1033
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	111415		
129	11.5	8.8	13.2	
127	13.4	10.9	16.3	



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





#32

Benzoic acid

Concen: 7.493 ng/mL

RT: 7.96 min Scan# 998

Delta R.T. -0.01 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Instrument :

BNA_F

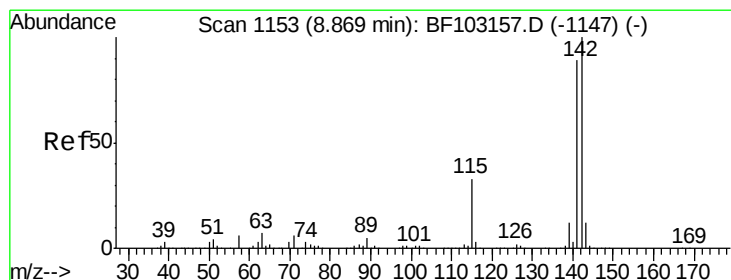
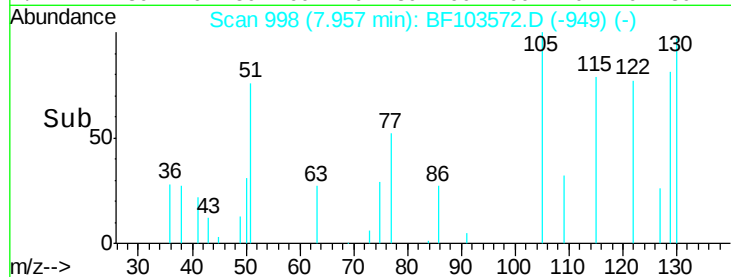
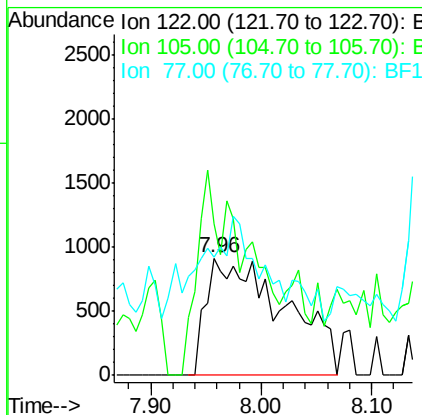
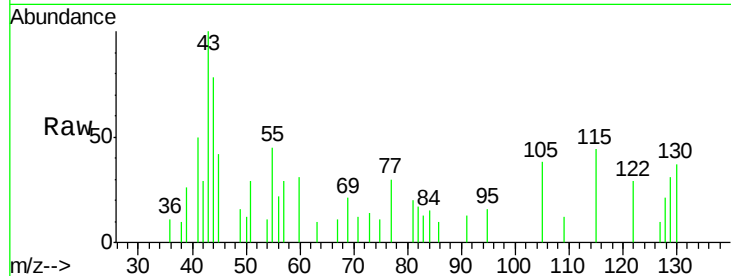
ClientSampled :

TP-1-3FT

Tot Ion	Ratio	Lower	Upper
122	100		
105	129.5	101.1	141.1
77	101.3	70.7	110.7

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#37

2-Methylnaphthalene

Concen: 3.267 ng

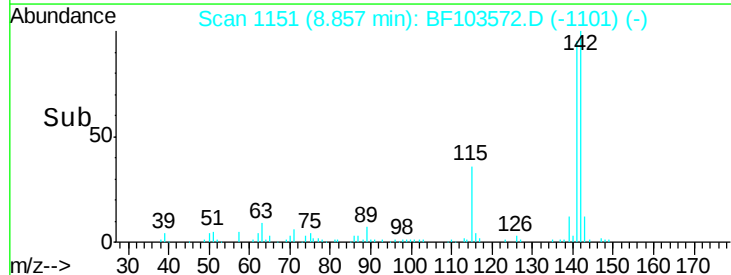
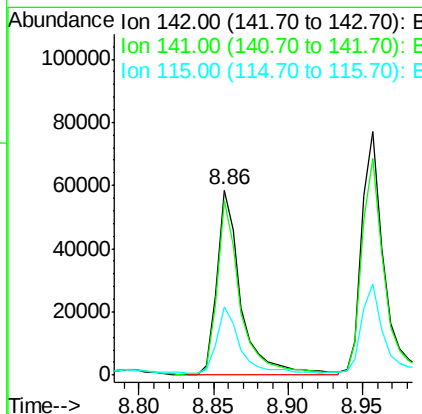
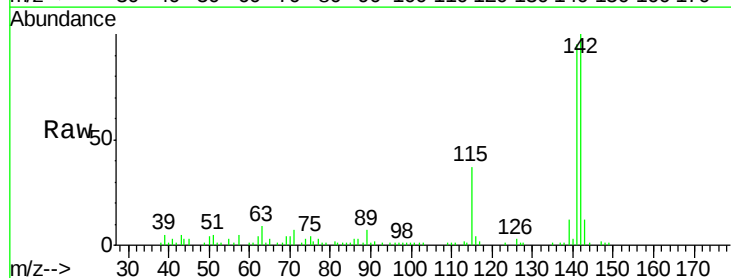
RT: 8.86 min Scan# 1151

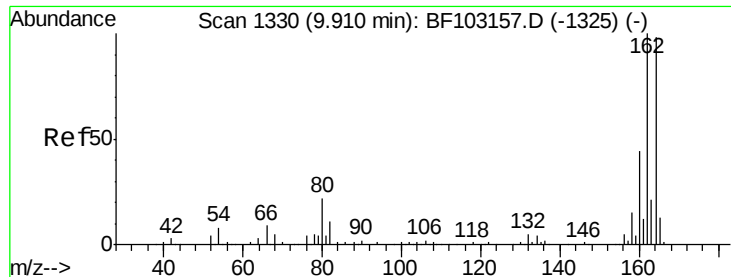
Delta R.T. -0.01 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Lower	Upper
142	100		
141	94.6	70.8	106.2
115	36.9	26.1	39.1





#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Instrument :

BNA_F

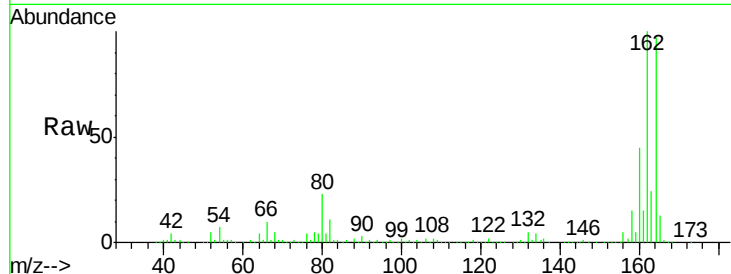
ClientSampleId :

TP-1-3FT

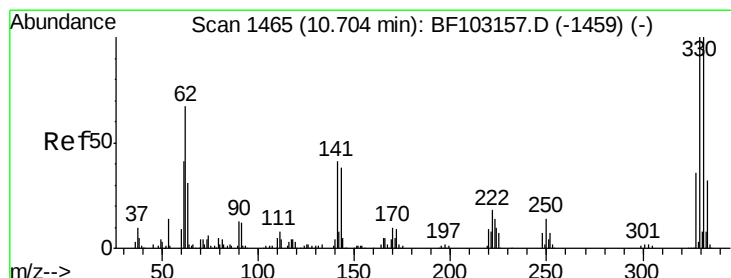
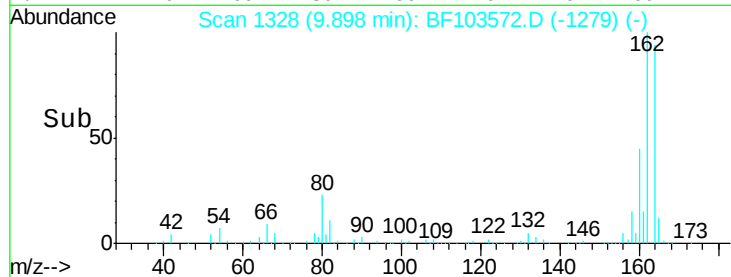
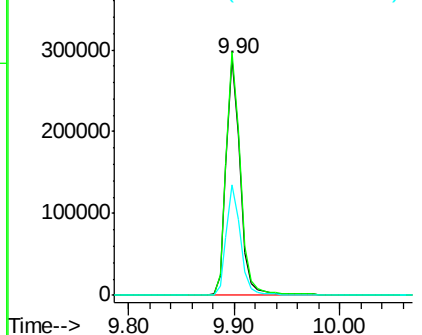
Tot Ion:	164	Resp:	271585
Ion Ratio	Lower	Upper	
164	100		
162	102.7	86.1	129.1
160	46.7	38.3	57.5

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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: 75.837 ng

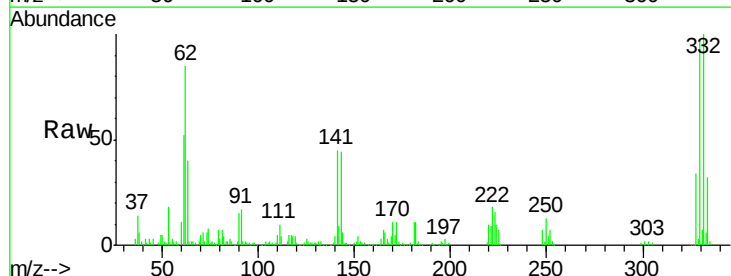
RT: 10.70 min Scan# 1464

Delta R.T. -0.01 min

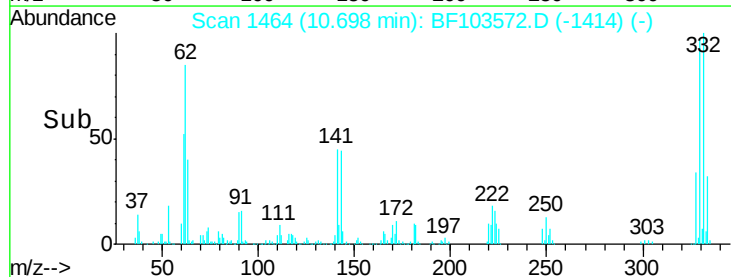
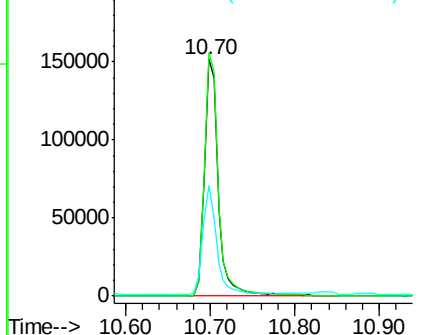
Lab File: BF103572.D

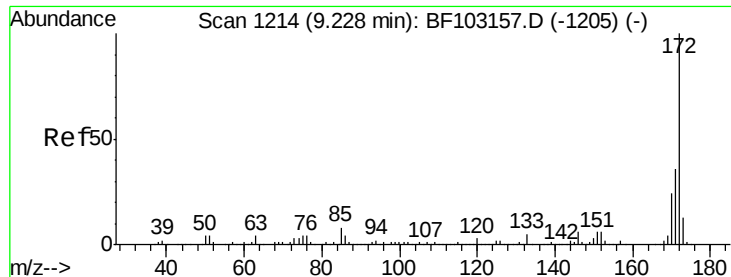
Acq: 12 Mar 2018 10:53

Tgt Ion:	330	Resp:	174336
Ion Ratio	Lower	Upper	
330	100		
332	102.7	77.0	115.6
141	45.8	29.9	44.9#



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





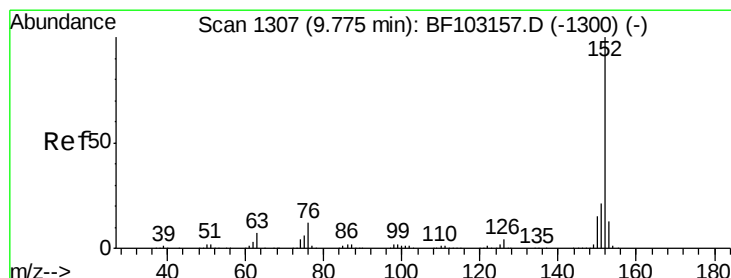
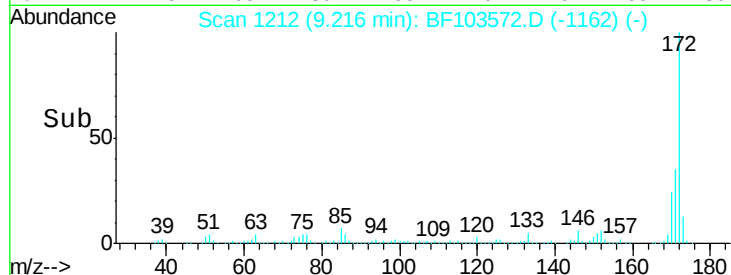
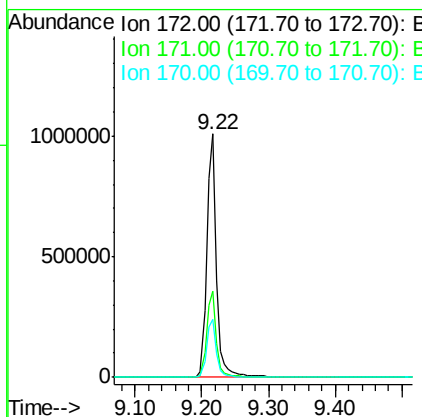
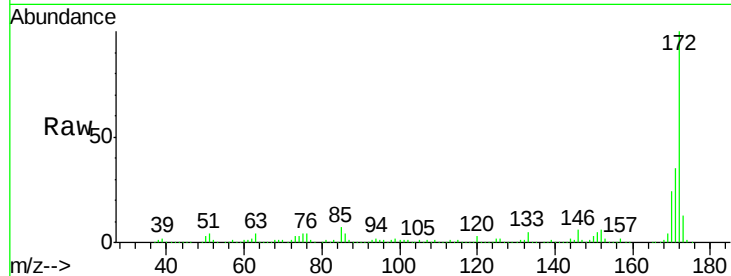
#44
2-Fluorobiphenyl
Concen: 59.703 ng
RT: 9.22 min Scan# 1212
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Instrument :
BNA_F
ClientSampled :
TP-1-3FT

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.7	44.5
170	24.1	19.6	29.4

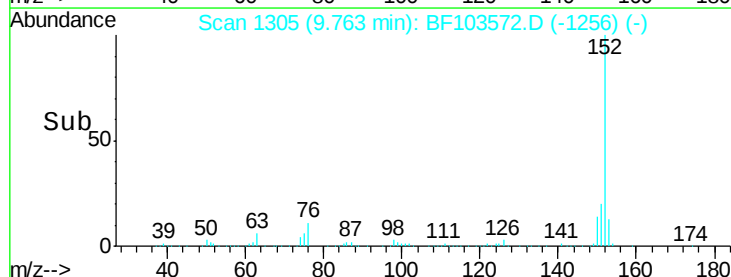
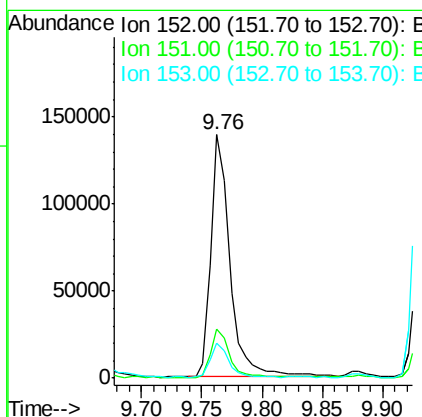
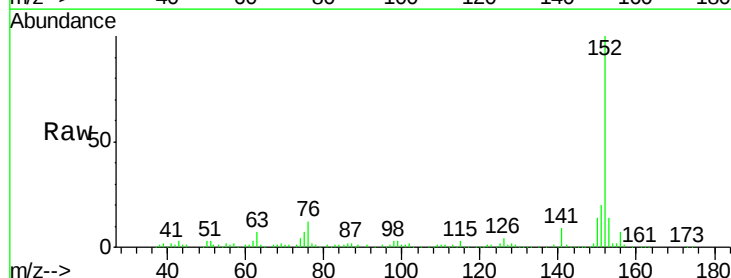
Manual Integrations
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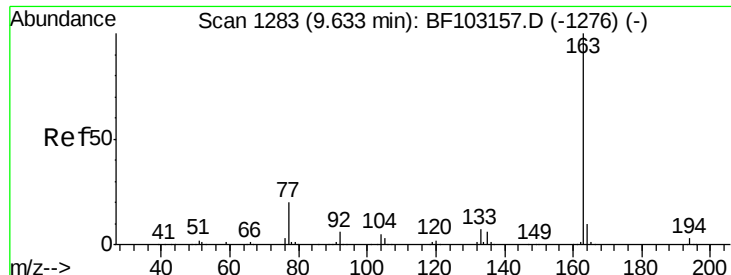
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#48
Acenaphthylene
Concen: 5.529 ng
RT: 9.76 min Scan# 1305
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.3	24.5
153	14.3	10.7	16.1





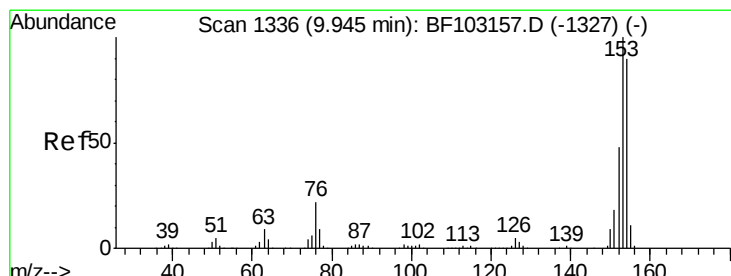
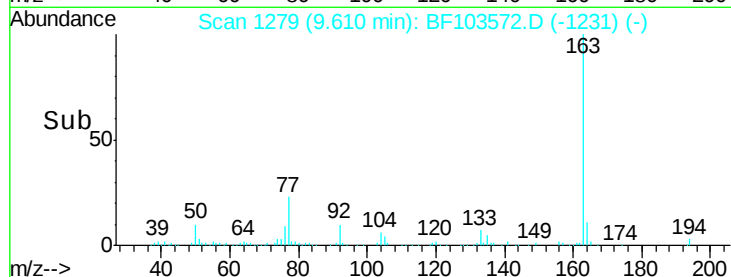
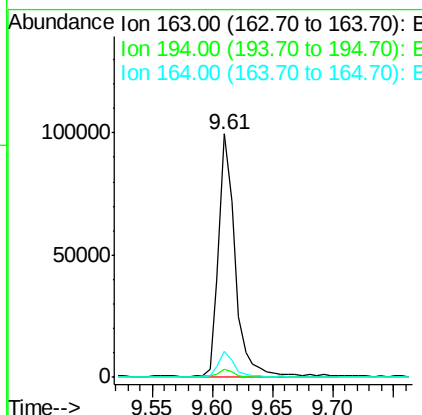
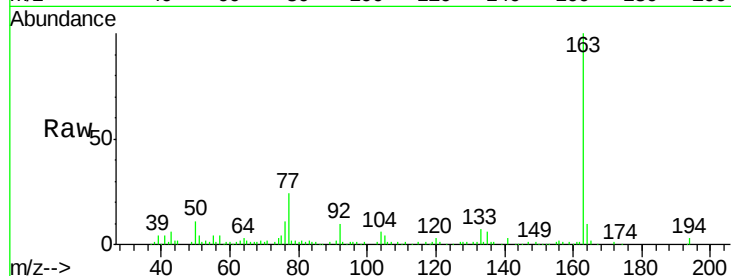
#49
Dimethylphthalate
Concen: 4.265 ng
RT: 9.61 min Scan# 1279
Delta R.T. -0.02 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Instrument :
BNA_F
ClientSampled :
TP-1-3FT

Tot Ion	Ratio	Resp	Lower	Upper
163	100			
194	3.1	2.7	4.1	
164	10.5	8.2	12.2	

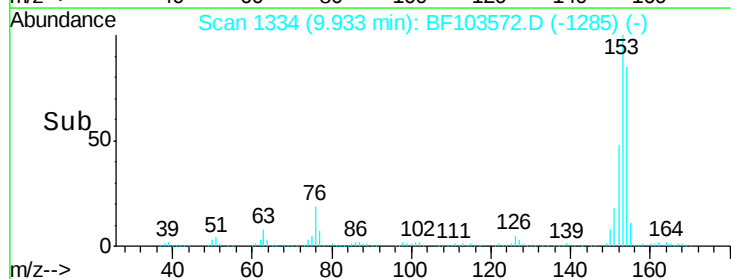
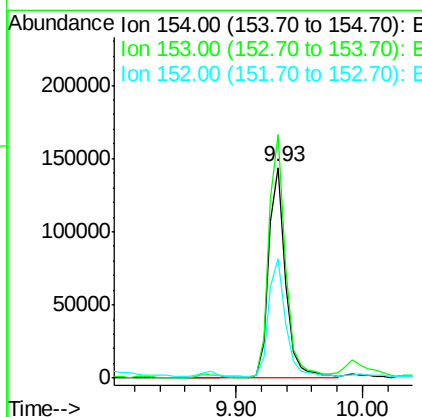
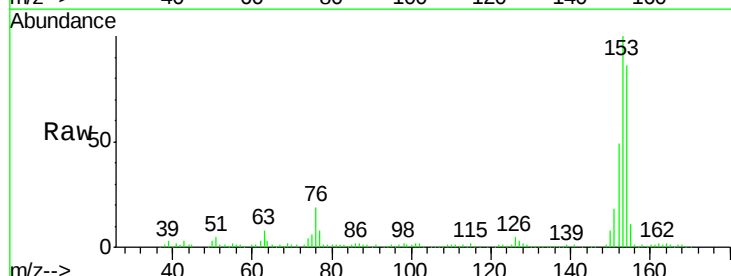
Manual Integrations
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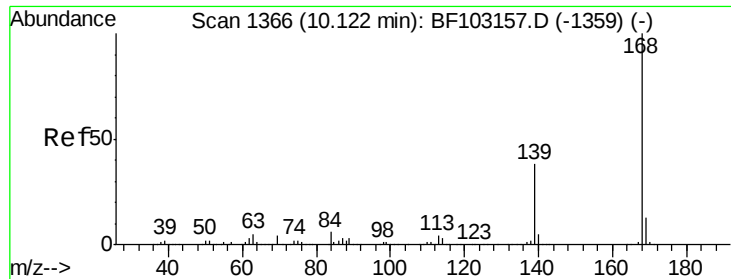
Sohil
3/13/2018 4:12:39 PM



#51
Acenaphthene
Concen: 8.422 ng
RT: 9.93 min Scan# 1334
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
154	100			
153	115.7	91.2	136.8	
152	56.6	43.8	65.8	





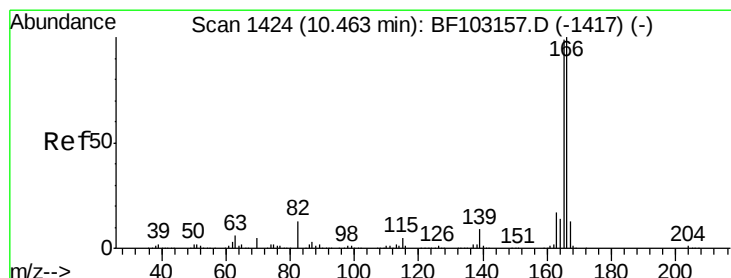
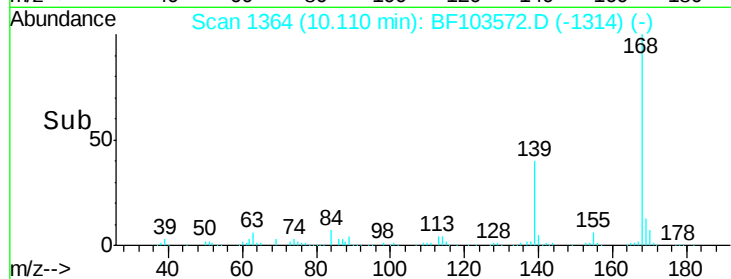
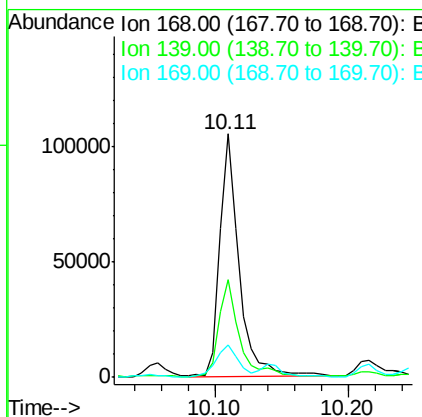
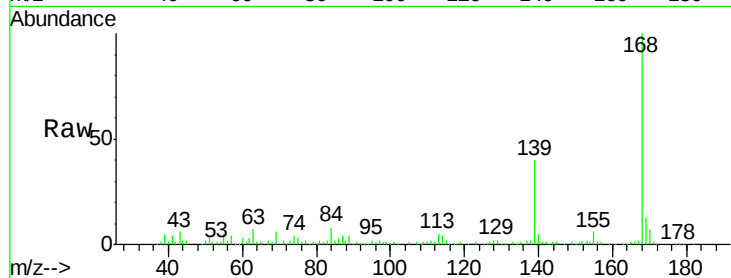
#54
Dibenzenofuran
Concen: 4.824 ng
RT: 10.11 min Scan# 1364
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Instrument :
BNA_F
ClientSampleId :
TP-1-3FT

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.3	30.1	45.1
169	13.4	10.9	16.3

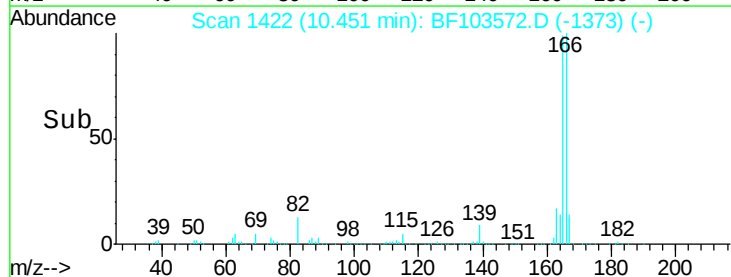
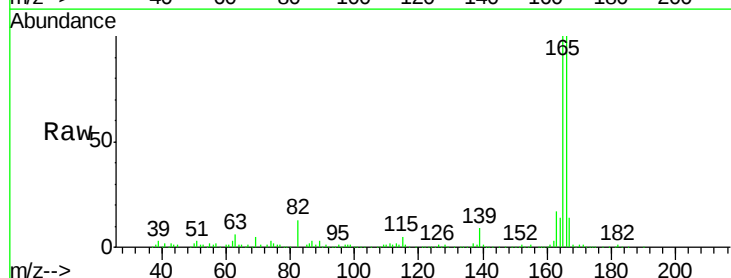
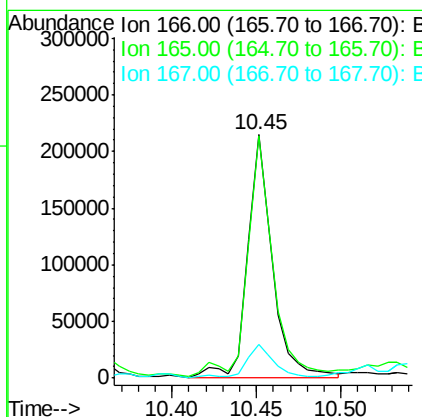
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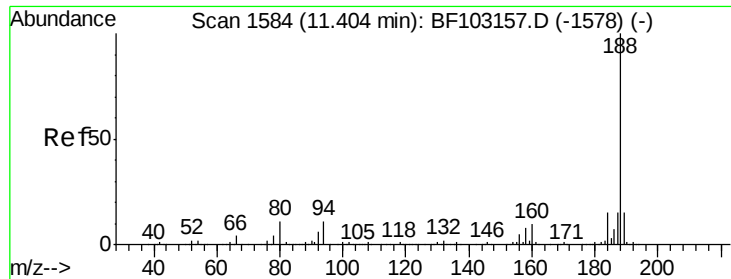
Sohil
3/13/2018 4:12:39 PM



#57
Fluorene
Concen: 11.618 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.8	79.8	119.8
167	14.0	10.6	16.0





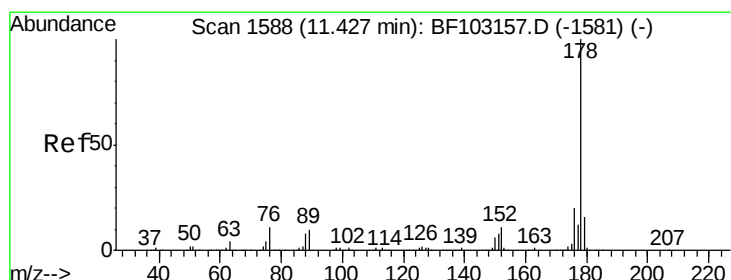
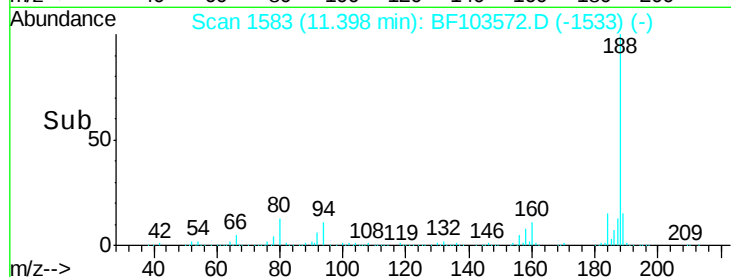
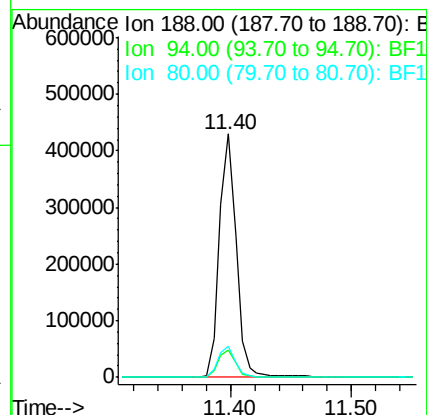
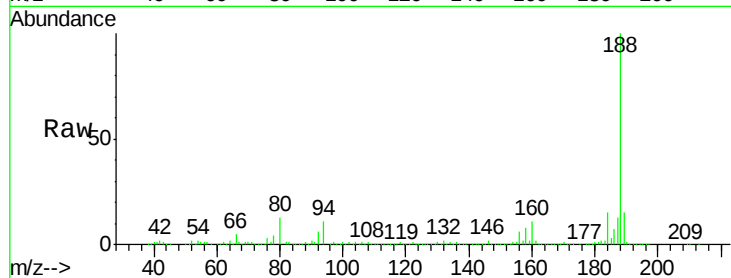
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1583
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Instrument :
BNA_F
ClientSampleId :
TP-1-3FT

Tot Ion	Ratio	Resp	Lower	Upper
188	100	415267		
94	11.1		8.5	12.7
80	12.8		9.2	13.8

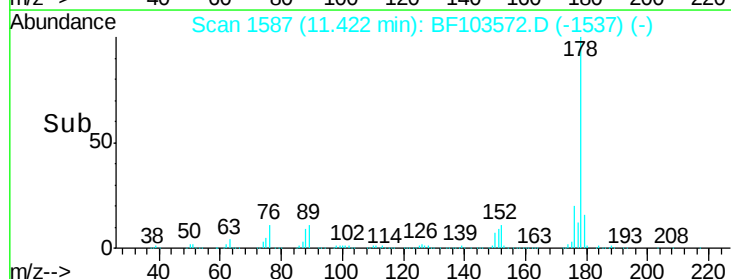
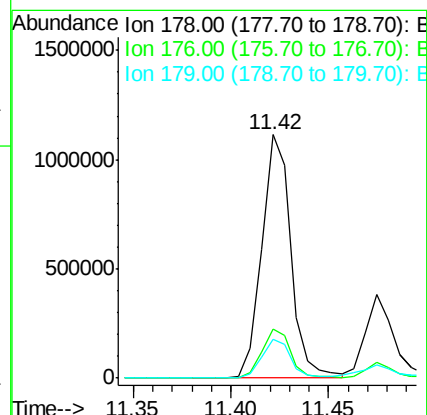
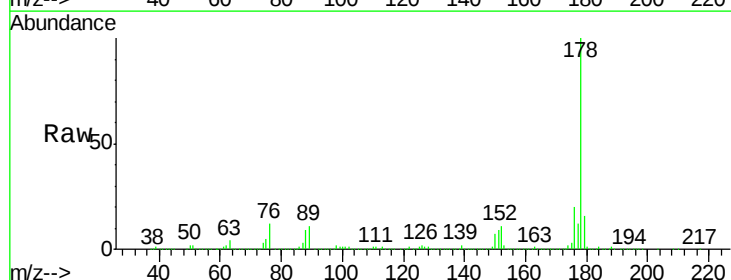
Manual Integrations
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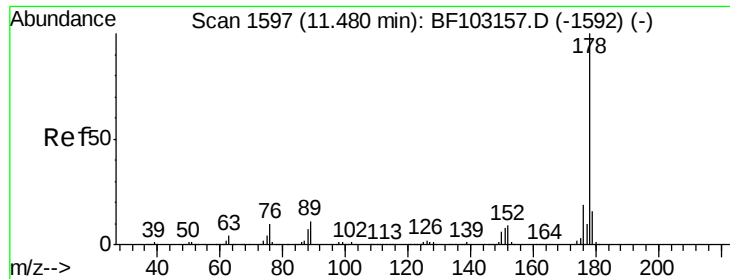
Sohil
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#70
Phenanthrene
Concen: 50.129 ng
RT: 11.42 min Scan# 1587
Delta R.T. -0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	1145616		
176	19.9		15.8	23.8
179	15.7		13.0	19.6





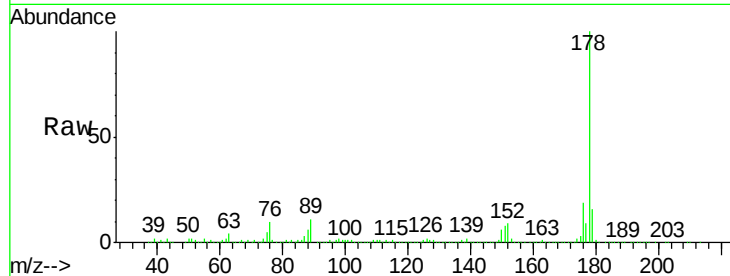
#71
 Anthracene
 Concen: 16.614 ng
 RT: 11.47 min Scan# 1596
 Delta R.T. -0.01 min
 Lab File: BF103572.D
 Acq: 12 Mar 2018 10:53

Instrument :
 BNA_F
 ClientSampled :
 TP-1-3FT

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	16.2	12.6	19.0

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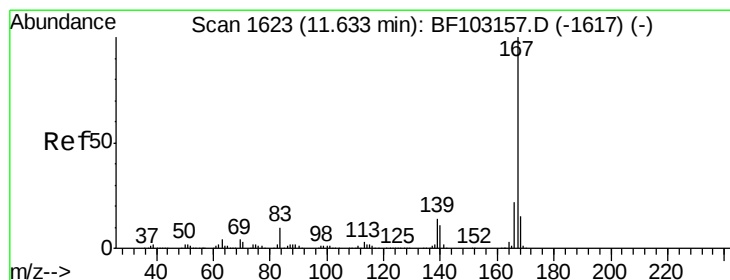
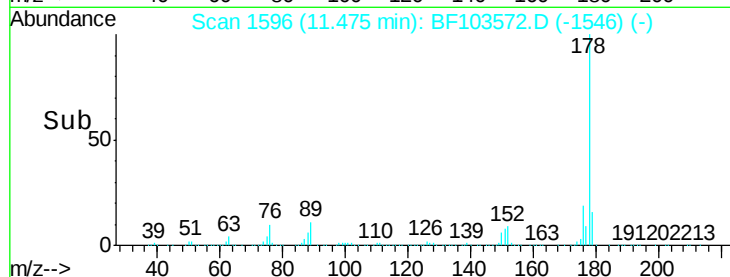
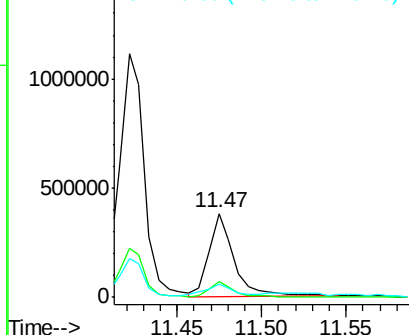


Abundance

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



#72
 Carbazole
 Concen: 5.109 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. 0.00 min
 Lab File: BF103572.D
 Acq: 12 Mar 2018 10:53

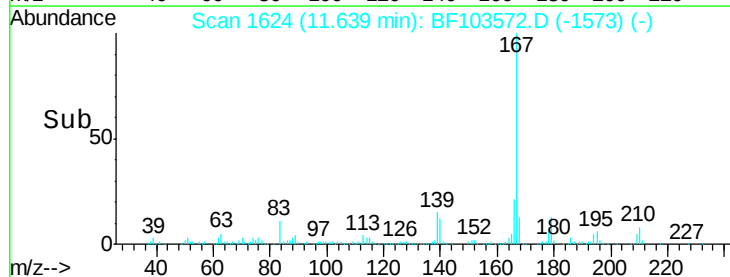
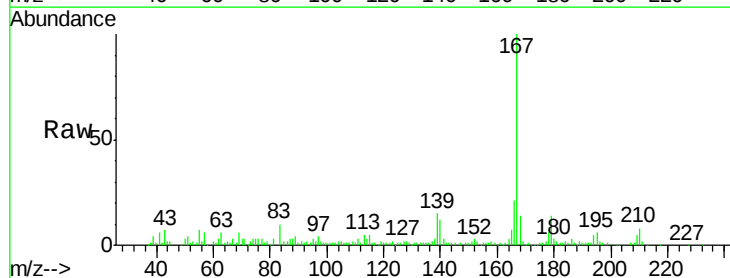
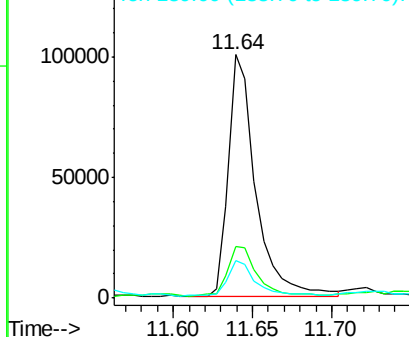
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.6	26.4
139	15.4	10.9	16.3

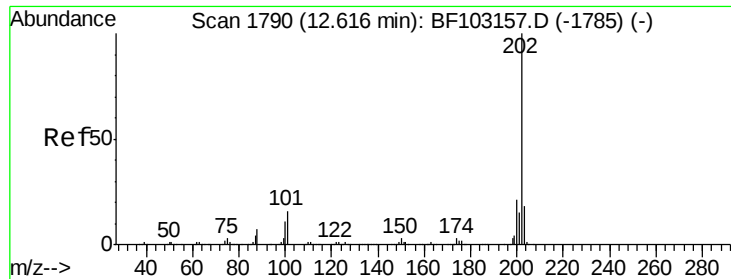
Abundance

Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 56.076 ng

RT: 12.62 min Scan# 1791

Delta R.T. 0.00 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Instrument :

BNA_F

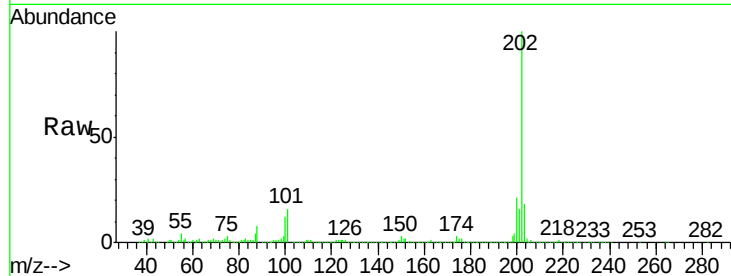
ClientSampled :

TP-1-3FT

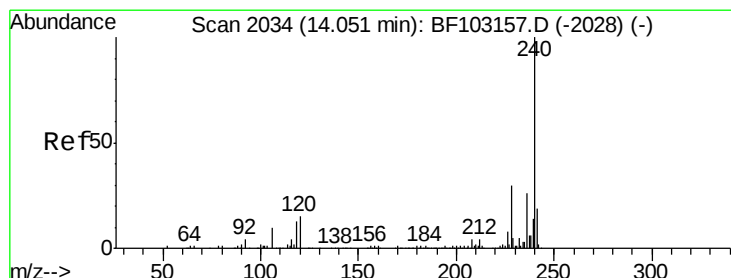
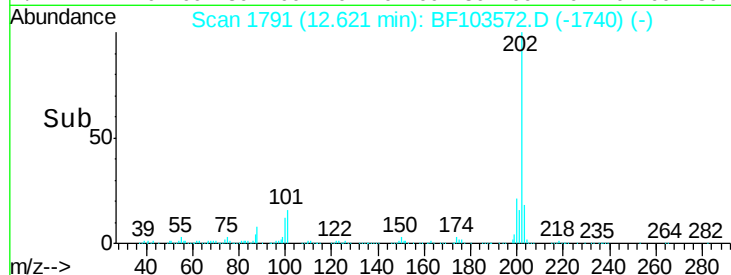
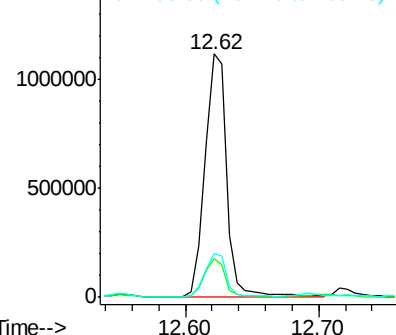
Tot Ion:	202	Resp:	1287788
Ion	Ratio	Lower	Upper
202	100		
101	16.1	0.0	34.1
203	17.9	0.0	38.1

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.06 min Scan# 2036

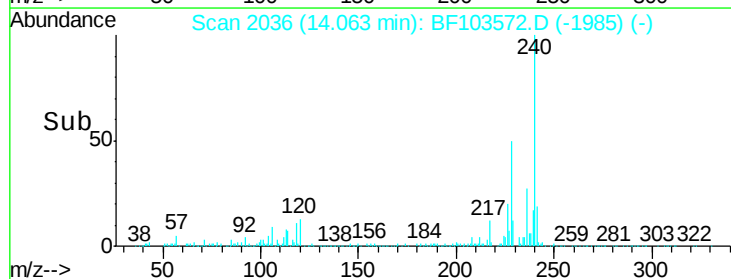
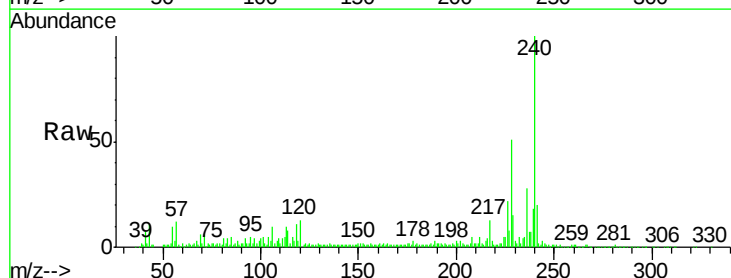
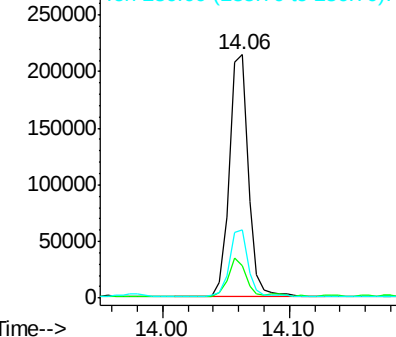
Delta R.T. 0.00 min

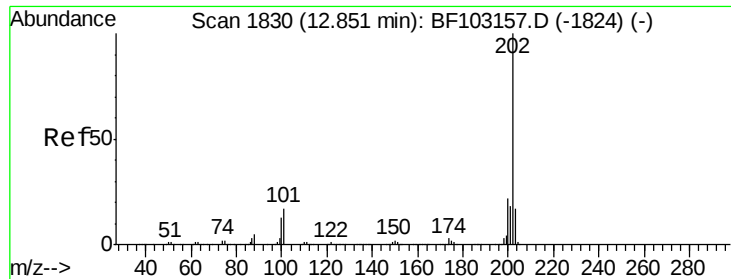
Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Tgt Ion:	240	Resp:	222177
Ion	Ratio	Lower	Upper
240	100		
120	13.5	9.5	14.3
236	28.0	20.7	31.1

Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 79.025 ng

RT: 12.86 min Scan# 1831

Delta R.T. 0.00 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Instrument :

BNA_F

ClientSampleId :

TP-1-3FT

Tot Ion:202 Resp: 1368886

Ion Ratio Lower Upper

202 100

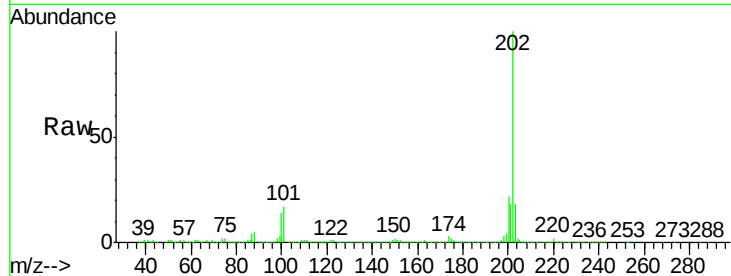
200 21.8 17.4 26.2

203 18.0 14.3 21.5

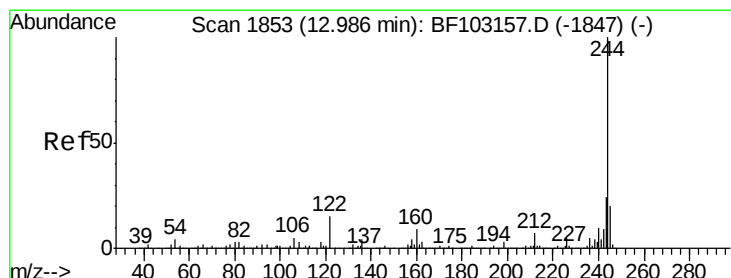
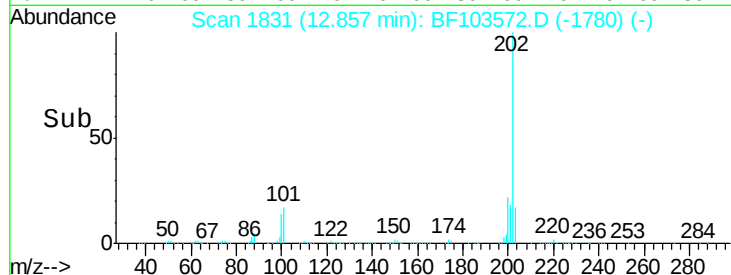
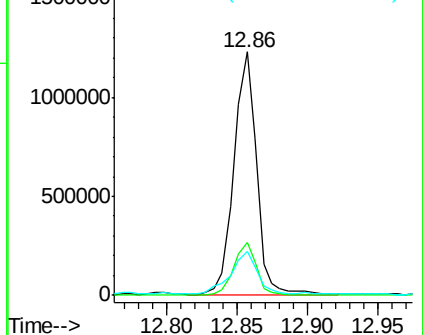
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 72.026 ng

RT: 12.98 min Scan# 1852

Delta R.T. -0.01 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

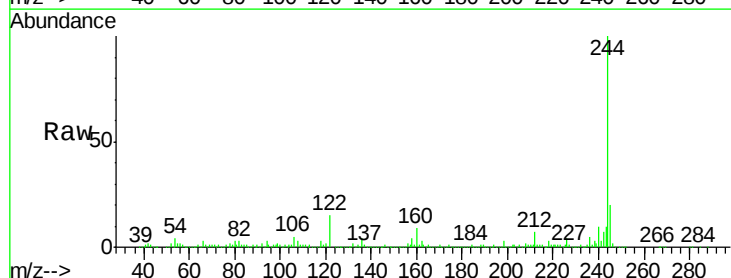
Tgt Ion:244 Resp: 665701

Ion Ratio Lower Upper

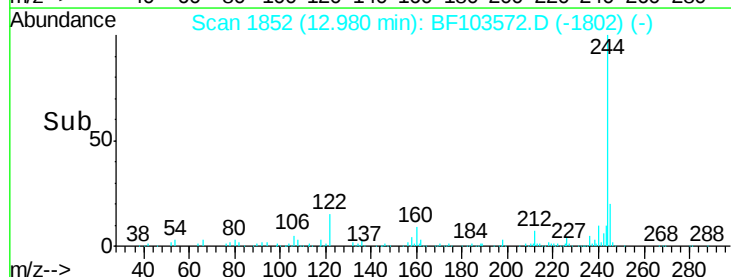
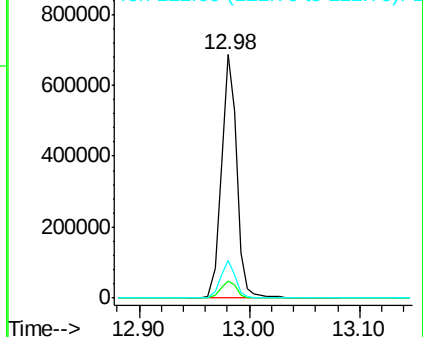
244 100

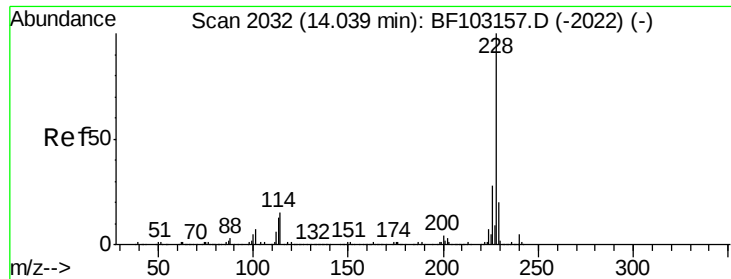
212 6.8 5.4 8.0

122 15.2 11.0 16.4



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





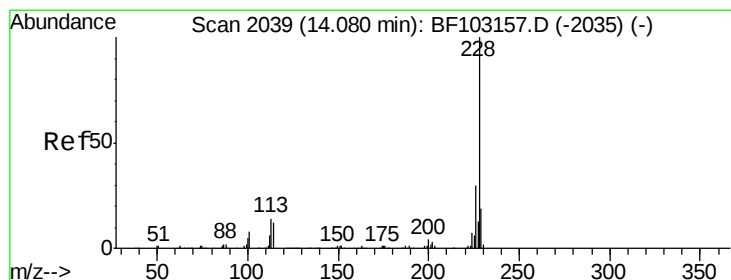
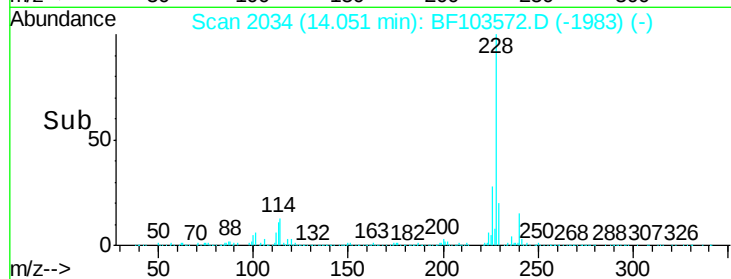
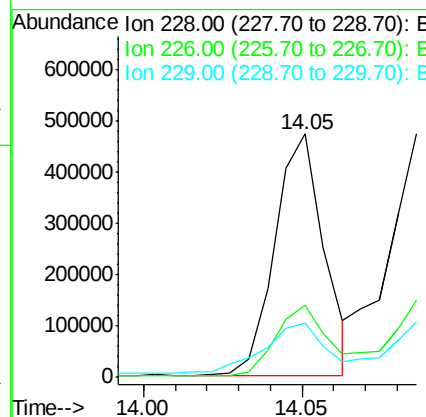
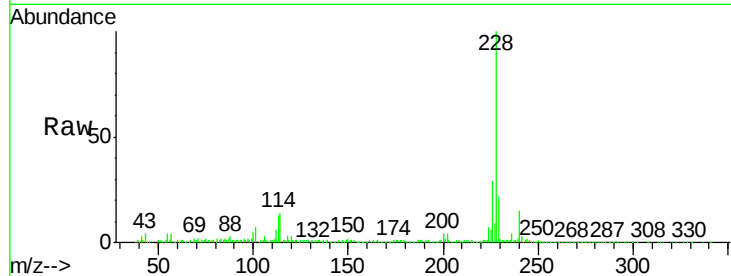
#80
Benzo(a)anthracene
Concen: 35.054 ng
RT: 14.05 min Scan# 2034
Delta R.T. 0.00 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Instrument :
BNA_F
ClientSampleId :
TP-1-3FT

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	22.6	33.8
229	22.2	15.8	23.6

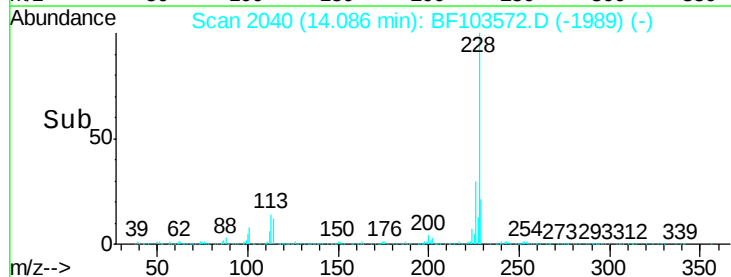
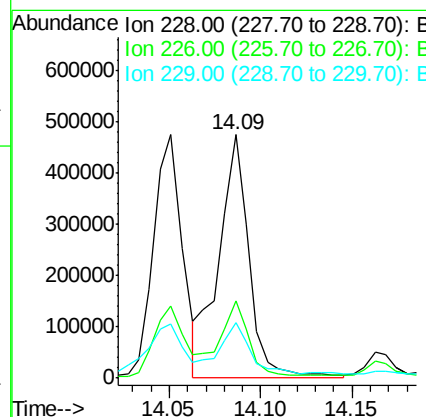
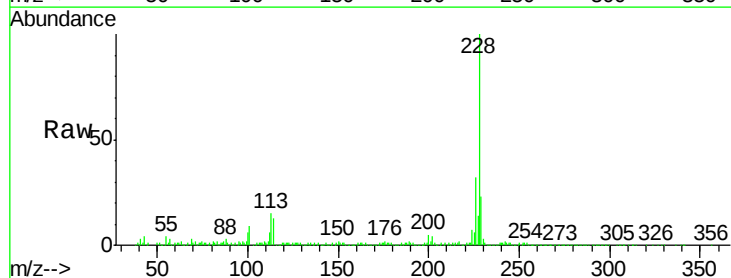
Manual Integrations
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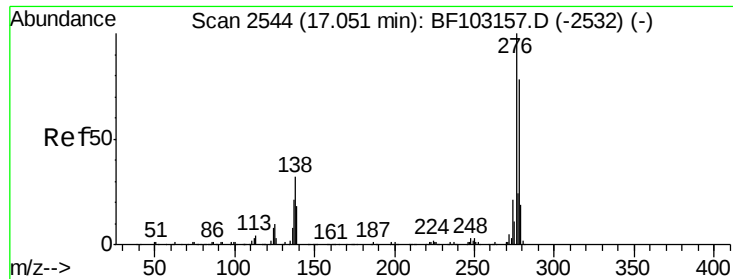
Sohil
3/13/2018 4:12:39 PM



#82
Chrysene
Concen: 39.474 ng m
RT: 14.09 min Scan# 2040
Delta R.T. 0.00 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.0	37.6
229	22.7	16.2	24.4





#85

Indeno(1,2,3-cd)pyrene

Concen: 20.114 ng

RT: 17.13 min Scan# 2558

Delta R.T. 0.02 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Instrument :

BNA_F

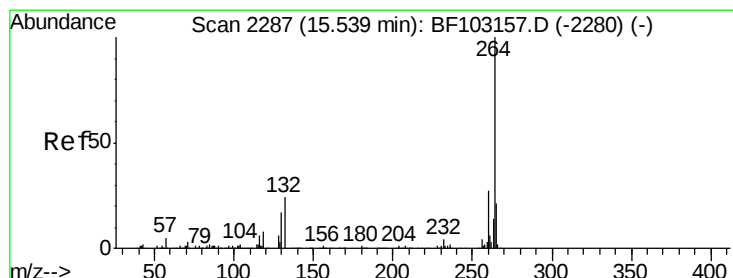
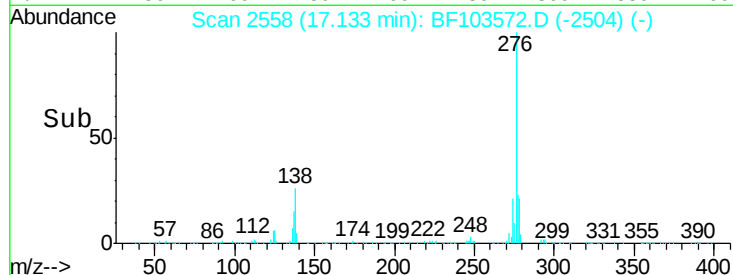
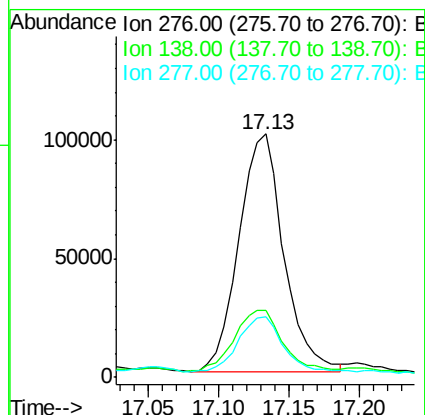
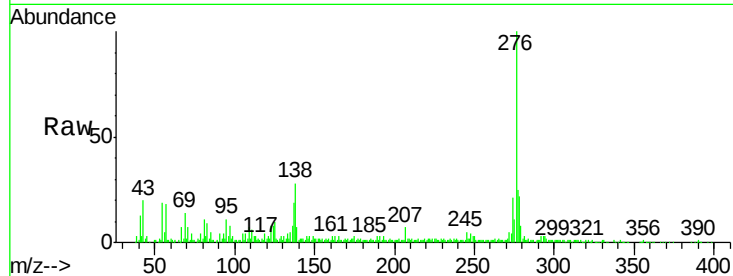
ClientSampled :

TP-1-3FT

Tot Ion:	276	Resp:	222889
Ion Ratio	Lower	Upper	
276	100		
138	27.2	25.0	37.6
277	23.4	20.1	30.1

Manual Integrations
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#86

Perylene-d12

Concen: 20.000 ng

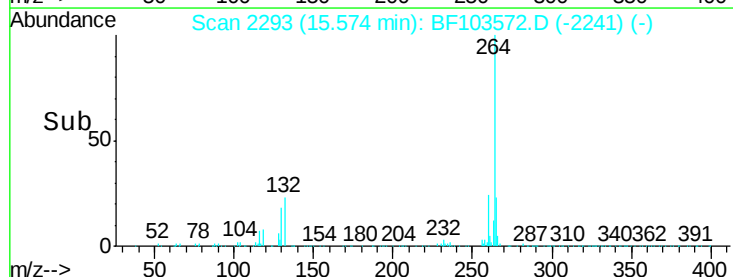
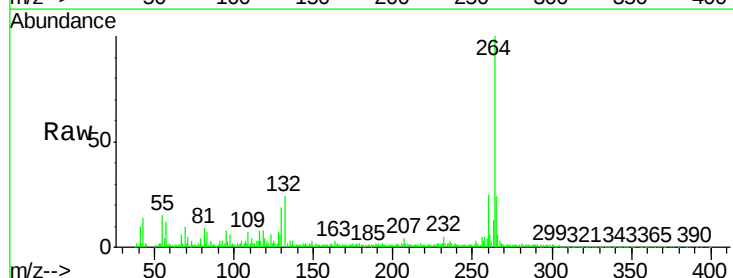
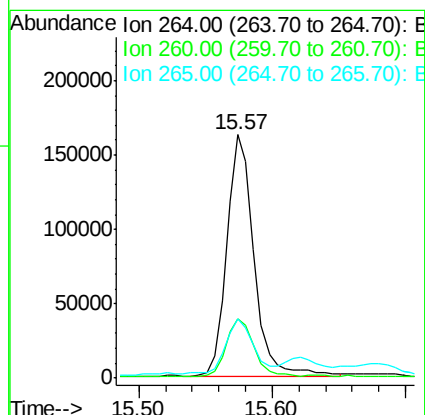
RT: 15.57 min Scan# 2293

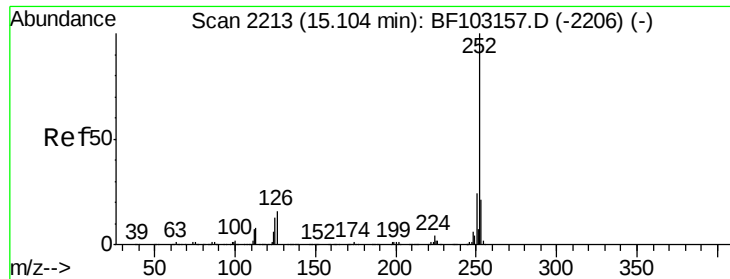
Delta R.T. 0.01 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Tgt Ion:	264	Resp:	232433
Ion Ratio	Lower	Upper	
264	100		
260	24.5	19.2	28.8
265	24.3	17.5	26.3





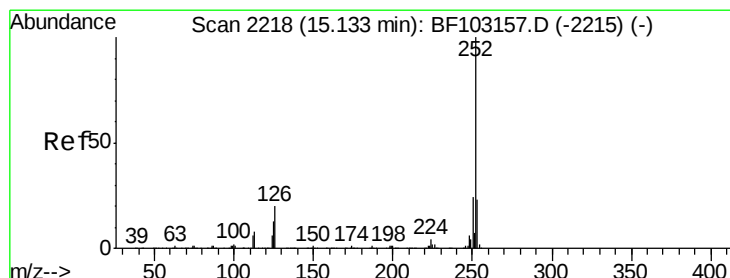
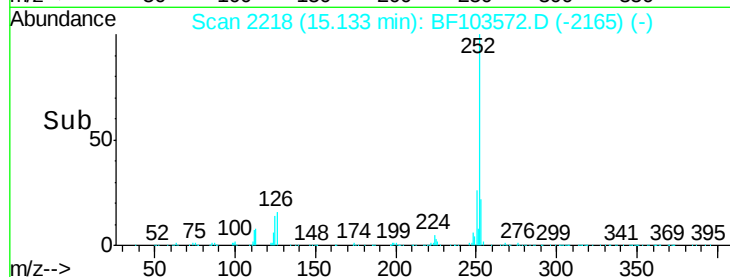
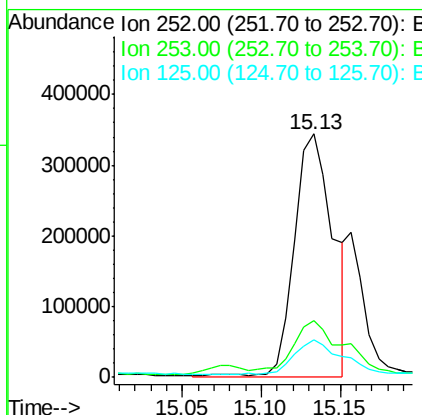
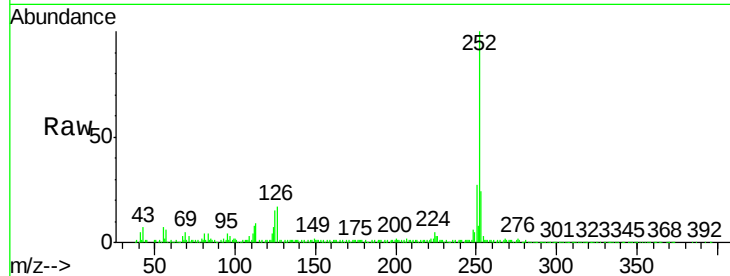
#87
Benzo(b)fluoranthene
Concen: 38.216 ng m
RT: 15.13 min Scan# 2218
Delta R.T. 0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Instrument :
BNA_F
ClientSampleId :
TP-1-3FT

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.0	25.6
125	15.4	9.0	13.6

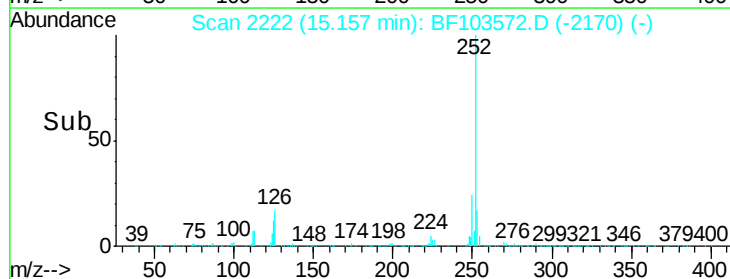
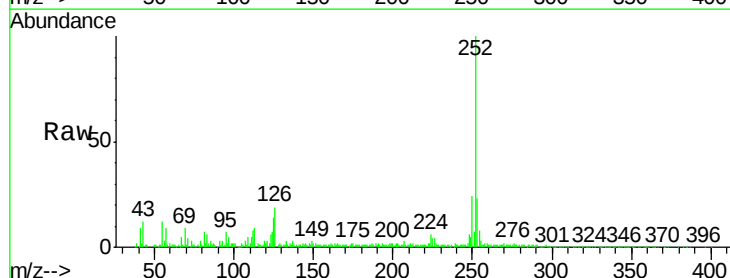
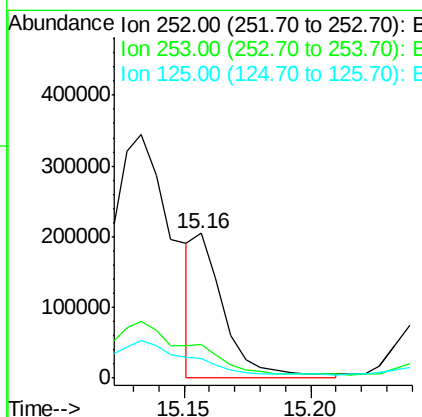
Manual Integrations
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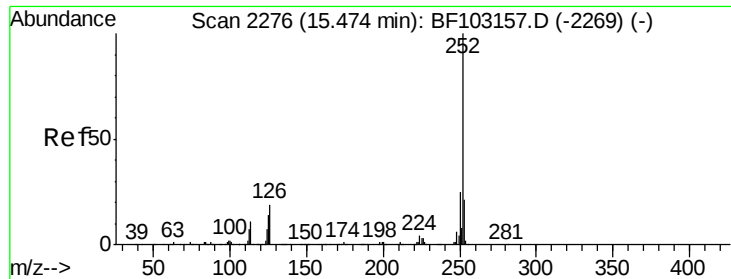
Sohil
3/13/2018 4:12:39 PM



#88
Benzo(k)fluoranthene
Concen: 11.679 ng m
RT: 15.16 min Scan# 2222
Delta R.T. 0.01 min
Lab File: BF103572.D
Acq: 12 Mar 2018 10:53

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.9	26.9
125	13.8	10.2	15.2





#89

Benzo(a)pyrene

Concen: 35.080 ng

RT: 15.52 min Scan# 2283

Delta R.T. 0.01 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Instrument :

BNA_F

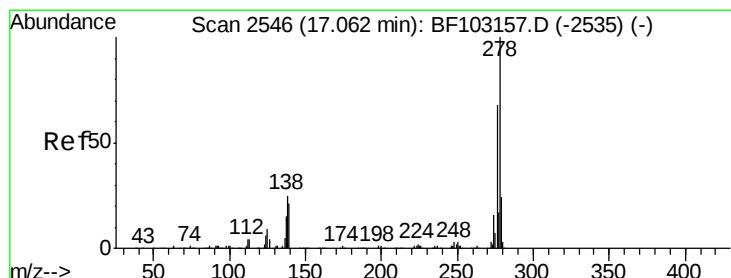
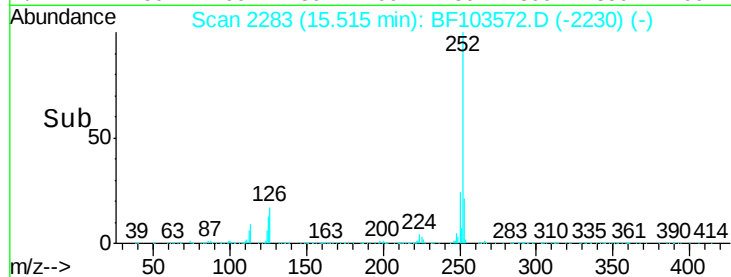
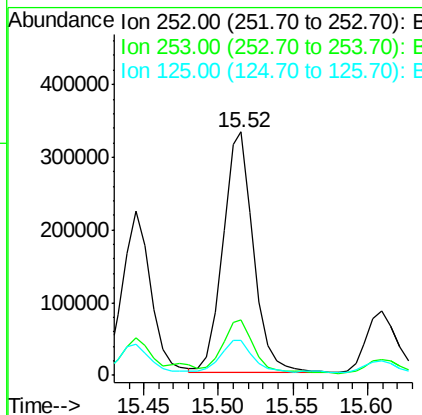
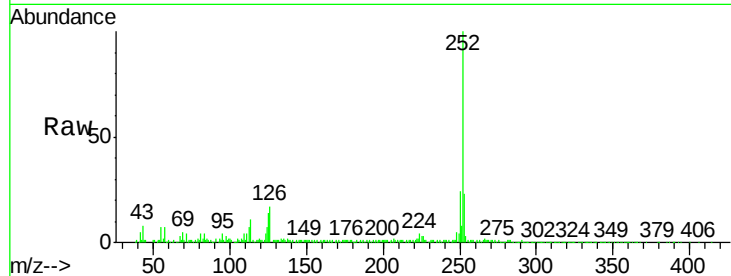
ClientSampleId :

TP-1-3FT

Tot Ion:	252	Resp:	478734
Ion Ratio	Lower	Upper	
252	100		
253	22.8	17.1	25.7
125	14.3	9.8	14.6

Manual Integrations
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3/13/2018 4:12:39 PM



#90

Dibenzo(a,h)anthracene

Concen: 5.068 ng

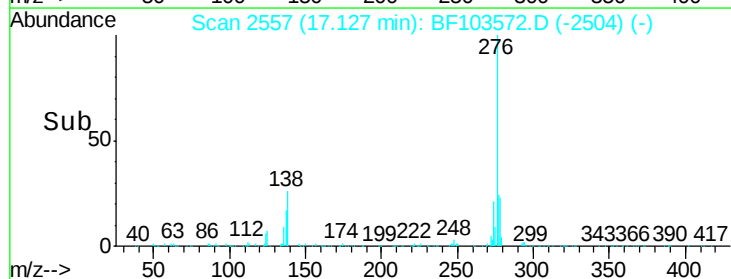
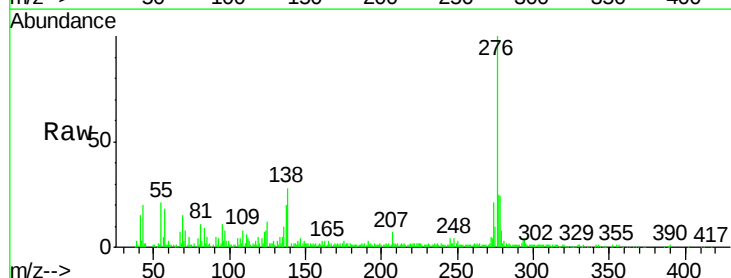
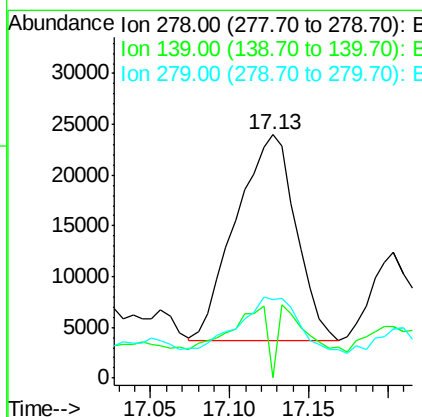
RT: 17.13 min Scan# 2557

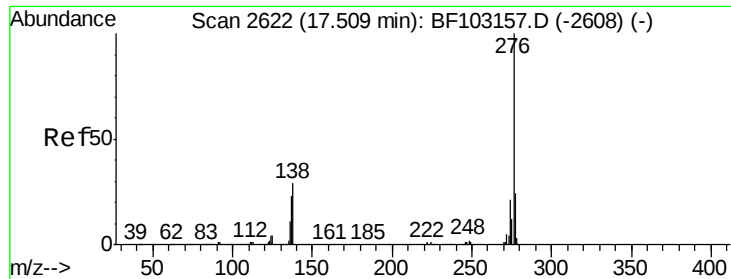
Delta R.T. 0.01 min

Lab File: BF103572.D

Acq: 12 Mar 2018 10:53

Tgt Ion:	278	Resp:	53441
Ion Ratio	Lower	Upper	
278	100		
139	0.0	15.9	23.9#
279	32.4	19.0	28.4#





#91
 Benzo(a,h,i)perylene
 Concen: 20.654 ng
 RT: 17.60 min Scan# 2638
 Delta R.T. 0.02 min
 Lab File: BF103572.D
 Acq: 12 Mar 2018 10:53

Instrument :
 BNA_F
 ClientSampleId :
 TP-1-3FT

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.5	17.9	26.9
138	30.0	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 3/13/2018 4:12:39 PM

