

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042618\
 Data File : BF104868.D
 Acq On : 27 Apr 2018 7:51
 Operator : JU/SJ
 Sample : J2520-15 20X
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP-5 2.0-2.5

Manual Integrations
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 4/27/2018 7:30:21 PM

Quant Time: Apr 27 13:57:51 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 25 14:01:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	89664	20.00	ng	0.00
21) Naphthalene-d8	8.08	136	347494	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	134310	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	207932	20.00	ng	0.00
75) Chrysene-d12	13.99	240	176723	20.00	ng	0.00
86) Perylene-d12	15.44	264	135241	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.42	112	24577	4.19	ng	0.00
7) Phenol-d6	6.44	99	32170	4.46	ng	0.00
23) Nitrobenzene-d5	7.36	82	18124	3.41	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	5294	3.80	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	35236	4.14	ng	0.00
78) Terphenyl-d14	12.92	244	28578	3.69	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.10	128	362826	20.969	ng	100
37) 2-Methylnaphthalene	8.80	142	96896	8.657	ng	99
45) 1,1'-Biphenyl	9.26	154	24526	2.174	ng	94
48) Acenaphthylene	9.70	152	53178	3.803	ng	97
51) Acenaphthene	9.87	154	114668	13.441	ng	99
54) Dibenzofuran	10.05	168	150325	12.644	ng	99
57) Fluorene	10.39	166	173020	19.993	ng	98
70) Phenanthrene	11.36	178	1482601	128.036	ng	99
71) Anthracene	11.41	178	359919	30.577	ng	99
72) Carbazole	11.56	167	177809	15.459	ng	99
74) Fluoranthene	12.56	202	1579778	130.577	ng	99
77) Pyrene	12.79	202	1493409	114.007	ng	99
80) Benzo(a)anthracene	13.97	228	764663	72.428	ng	98
82) Chrysene	14.01	228	685619	63.224	ng	97
85) Indeno(1,2,3-cd)pyrene	16.91	276	232873	25.279	ng	# 93
87) Benzo(b)fluoranthene	15.03	252	702094m	82.197	ng	
88) Benzo(k)fluoranthene	15.05	252	182772m	22.665	ng	
89) Benzo(a)pyrene	15.39	252	445342	58.271	ng	97
90) Dibenzo(a,h)anthracene	16.91	278	65773m	10.479	ng	
91) Benzo(a,h,i)perylene	17.36	276	221422	36.411	ng	94

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

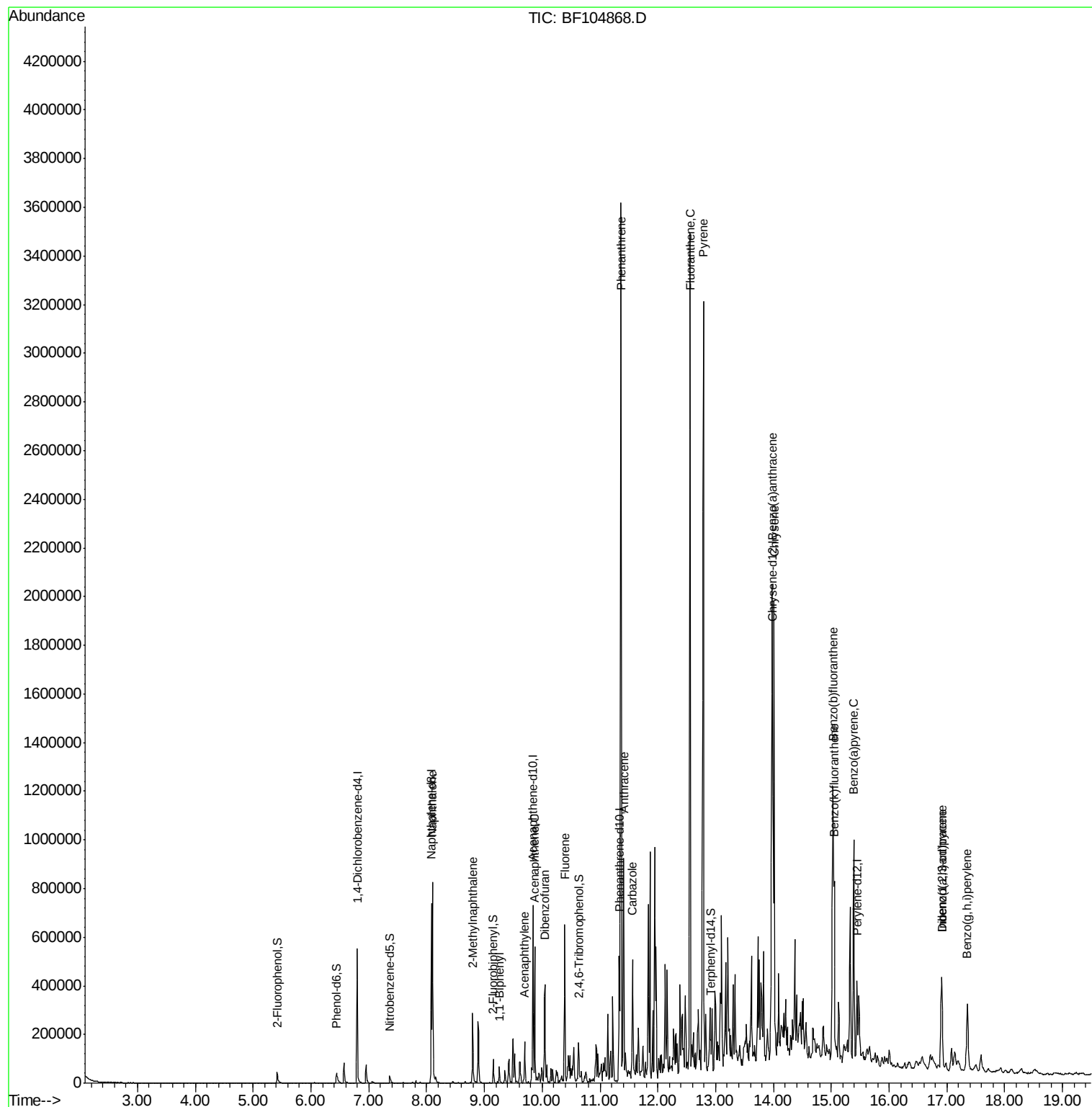
Data Path : Z:\HPCHEM1\BNA F\DATA\BF042618\
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Sample : J2520-15 20X
Misc :
ALS Vial : 37 Sample Multiplier: 1

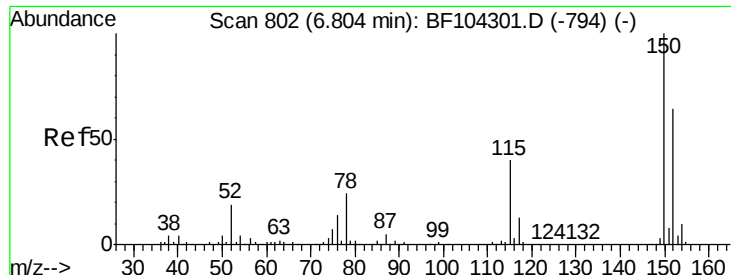
Instrument :
BNA_F
ClientSampleId :
TP-5 2.0-2.5

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Quant Time: Apr 27 13:57:51 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

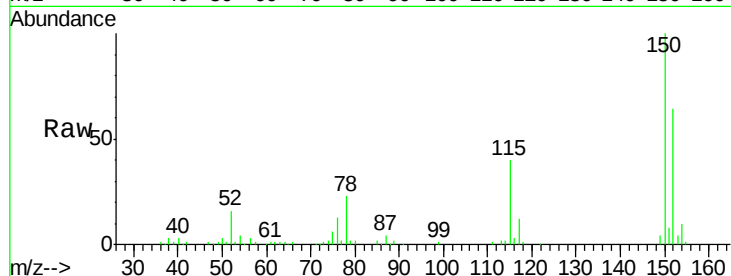
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 801
Delta R.T. -0.00 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Instrument :
BNA_F
ClientSampleId :
TP-5 2.0-2.5

Tot Ion	Ratio	Lower	Upper
152	100		
150	156.1	124.6	186.8
115	62.0	50.1	75.1

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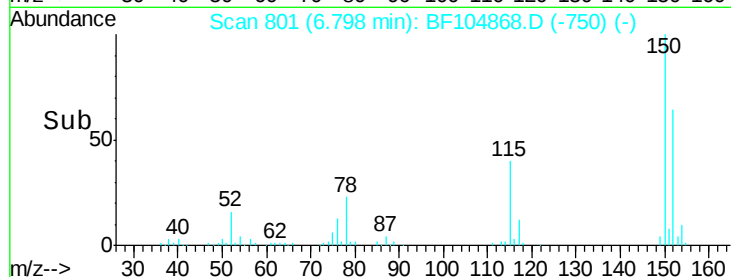
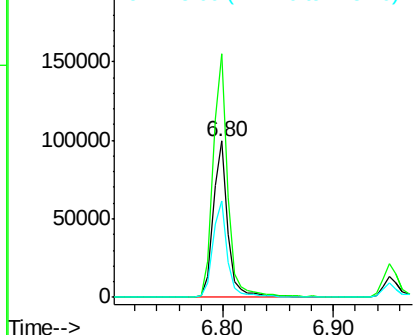


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

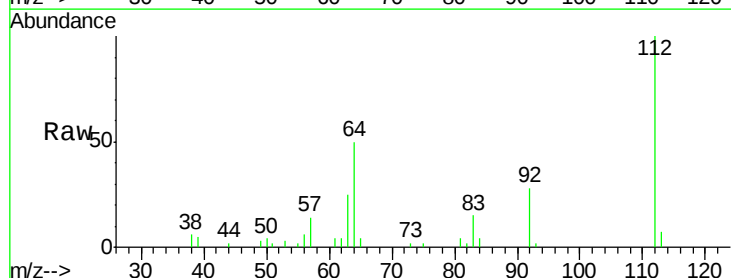
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol
Concen: 4.191 ng
RT: 5.42 min Scan# 566
Delta R.T. 0.00 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
112	100		
64	50.3	47.9	71.9
63	25.0	23.7	35.5

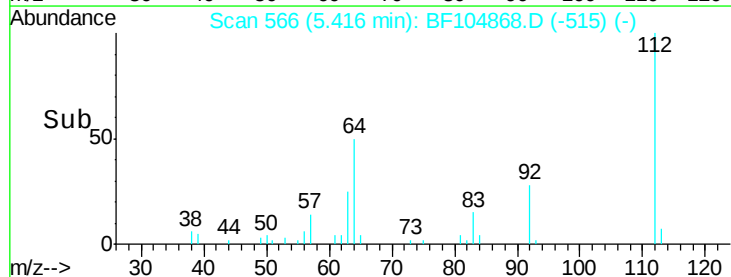
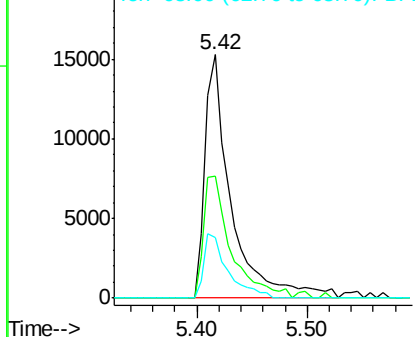


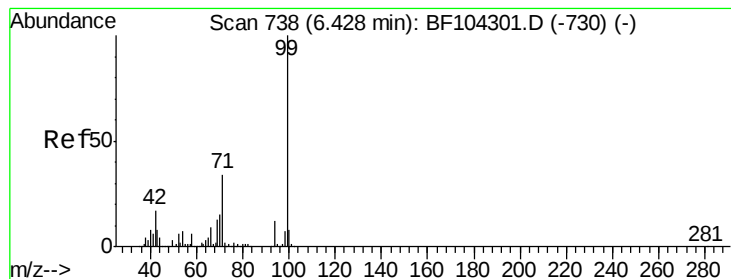
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.465 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Instrument :

BNA_F

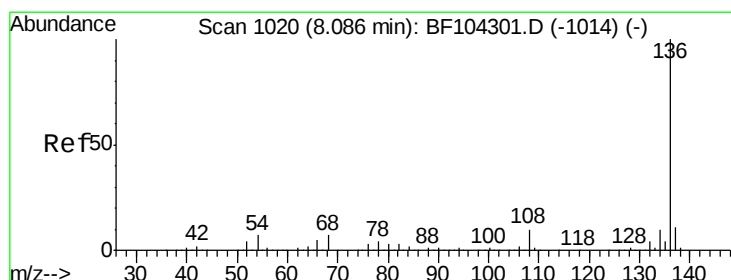
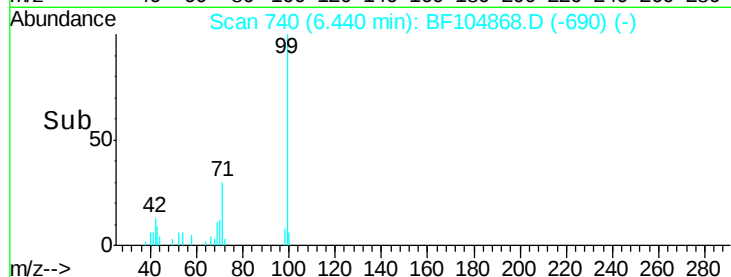
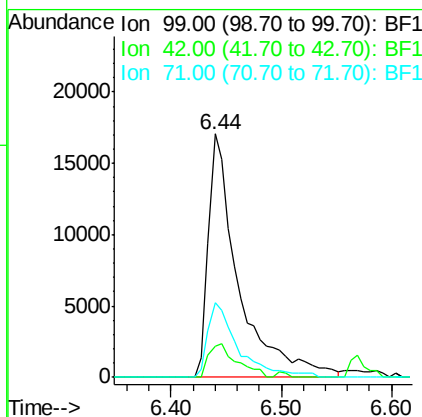
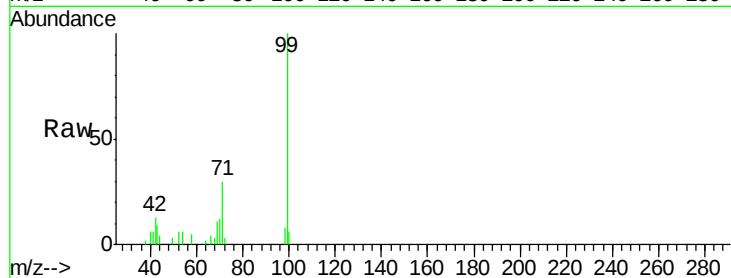
ClientSampleId :

TP-5 2.0-2.5

Tot Ion:	99	Resp:	32170
Ion	Ratio	Lower	Upper
99	100		
42	13.0	14.5	21.7#
71	30.5	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

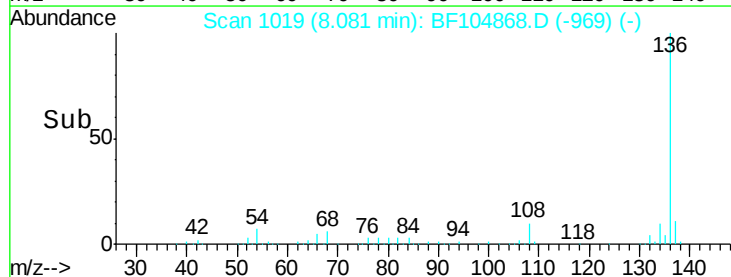
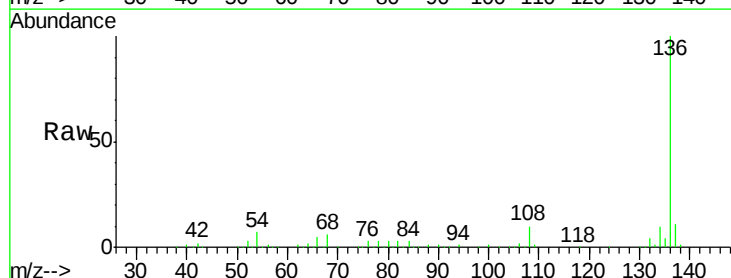
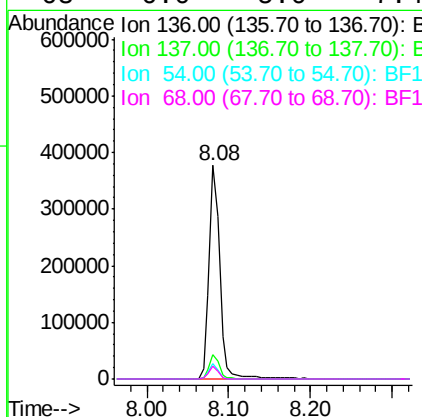
RT: 8.08 min Scan# 1019

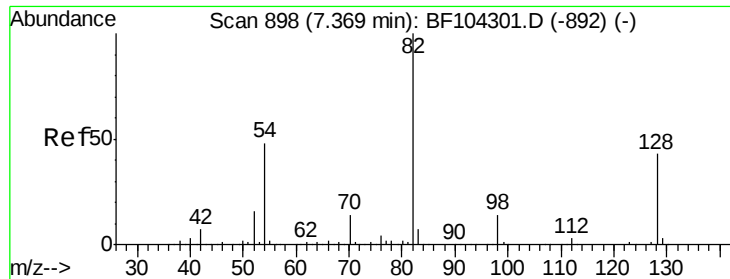
Delta R.T. -0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Tgt Ion:	136	Resp:	347494
Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	7.0	6.6	9.8
68	6.0	5.0	7.4





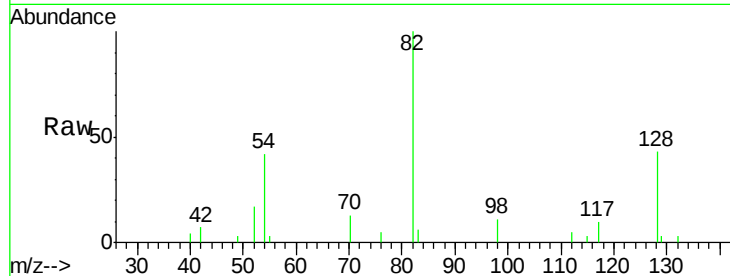
#23
Nitrobenzene-d5
Concen: 3.406 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Instrument :
BNA_F
ClientSampleId :
TP-5 2.0-2.5

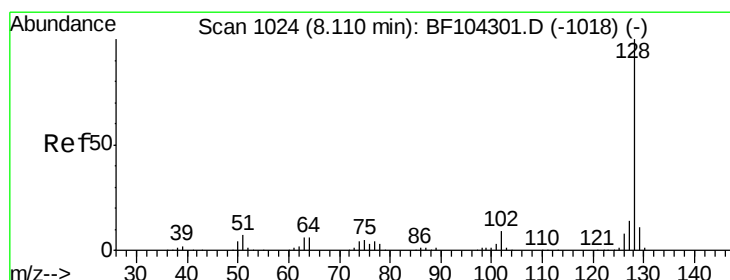
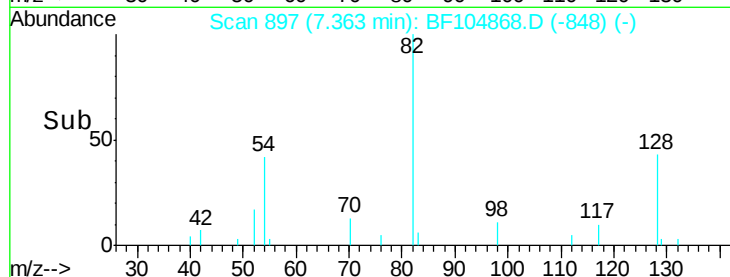
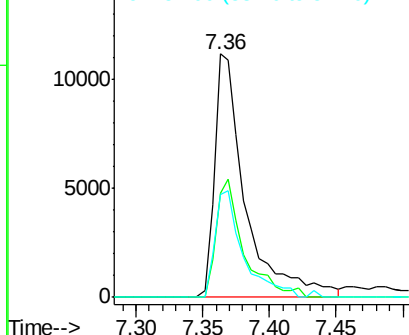
Tot Ion	Ratio	Lower	Upper
82	100		
128	42.6	36.1	54.1
54	42.2	41.4	62.2

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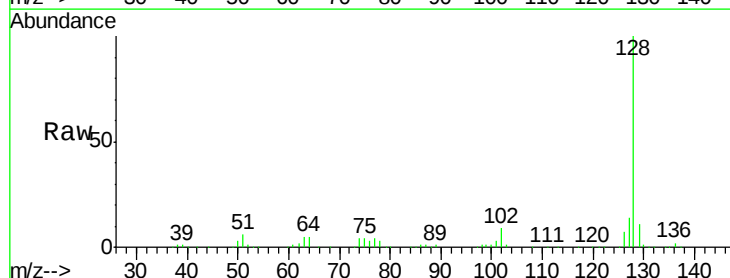


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF1

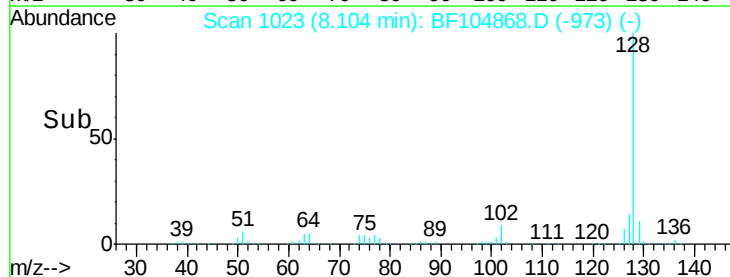
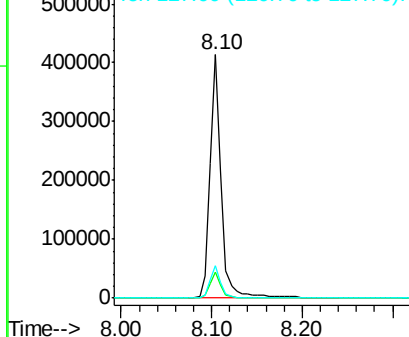


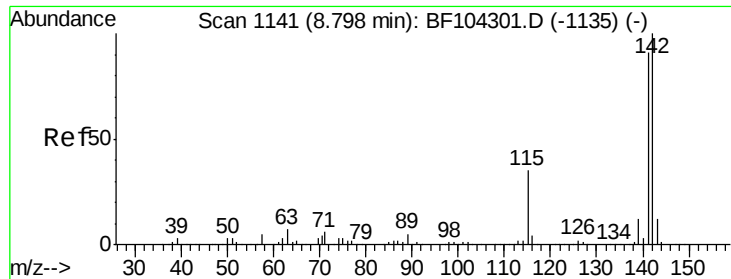
#31
Naphthalene
Concen: 20.969 ng
RT: 8.10 min Scan# 1023
Delta R.T. -0.01 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.8	13.2
127	13.6	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





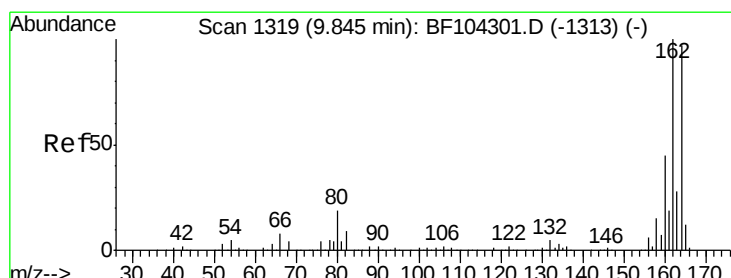
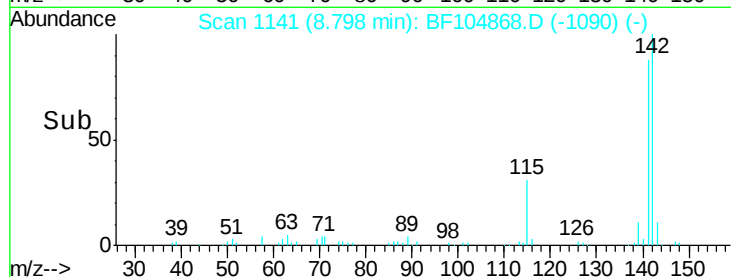
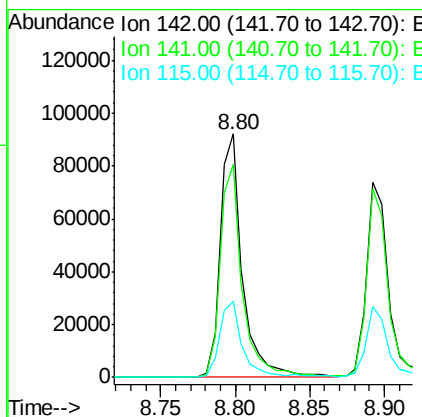
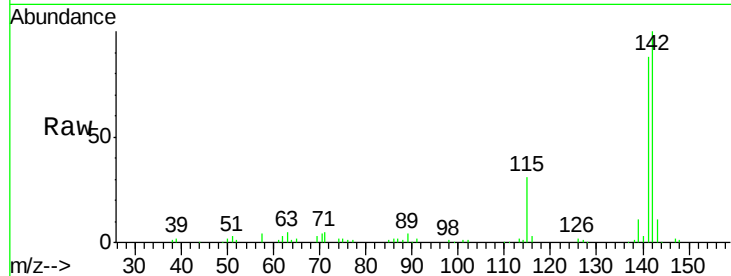
#37
2-Methylnaphthalene
Concen: 8.657 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.00 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Instrument :
BNA_F
ClientSampleId :
TP-5 2.0-2.5

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.8	106.2
115	31.1	26.1	39.1

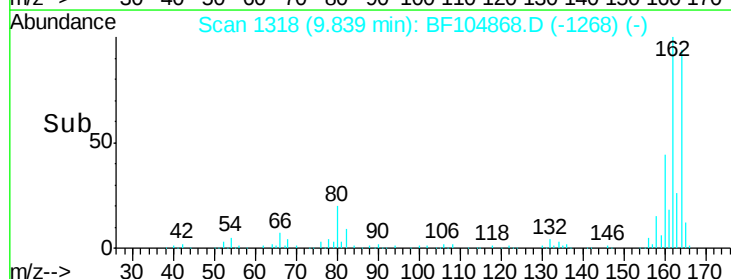
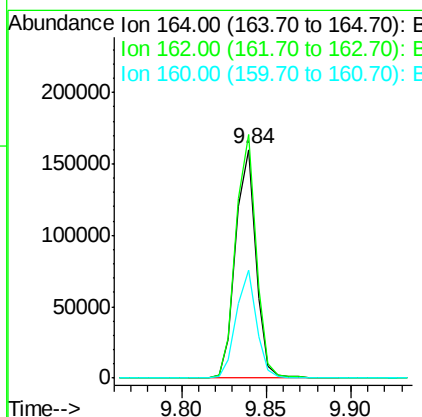
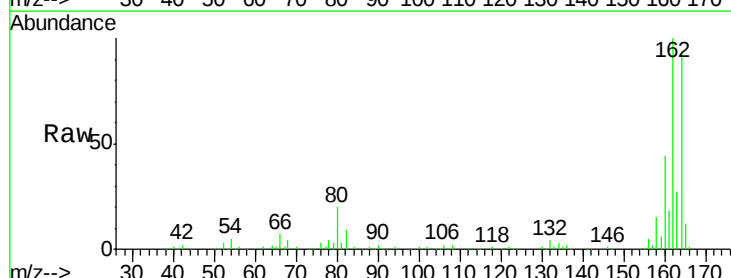
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.4	86.1	129.1
160	46.9	38.3	57.5





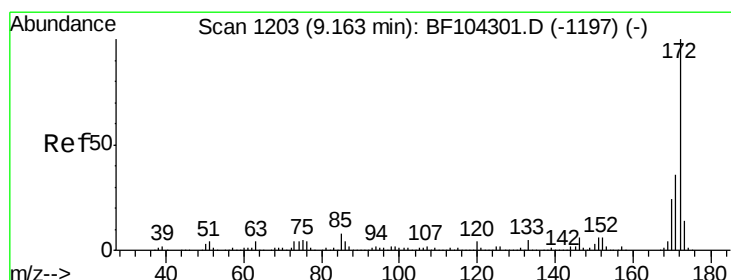
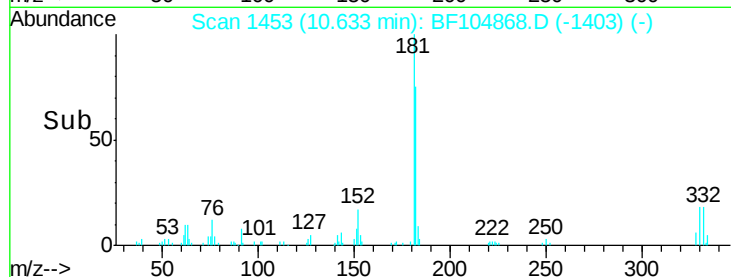
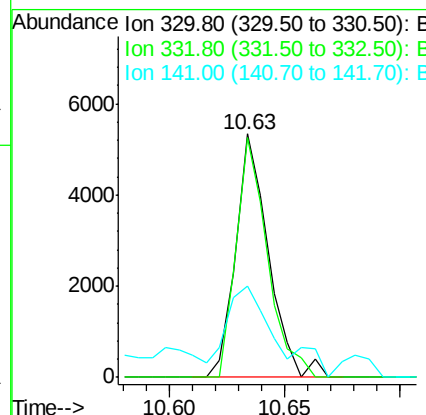
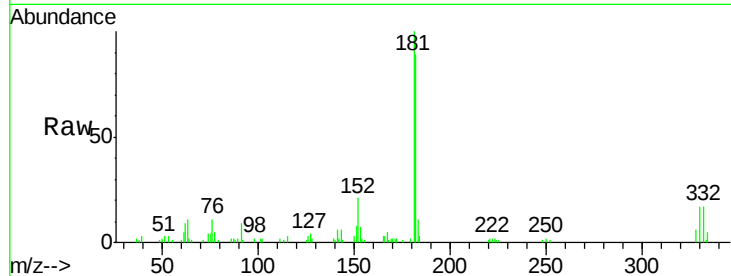
#41
 2,4,6-Tribromophenol
 Concen: 3.800 ng
 RT: 10.63 min Scan# 1453
 Delta R.T. -0.01 min
 Lab File: BF104868.D
 Acq: 27 Apr 2018 7:51

Instrument :
 BNA_F
 ClientSampleId :
 TP-5 2.0-2.5

Tot Ion	Ratio	Lower	Upper
330	100		
332	93.7	77.0	115.6
141	56.3	29.9	44.9

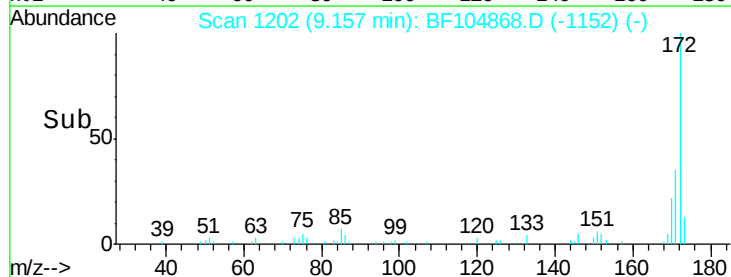
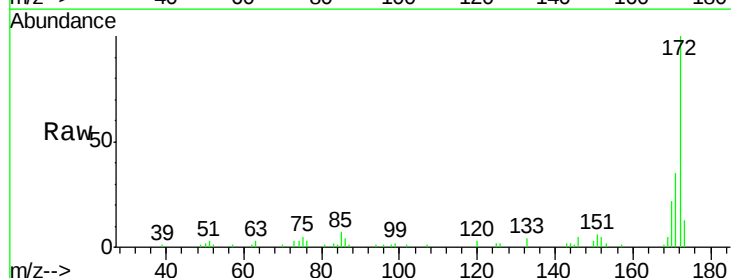
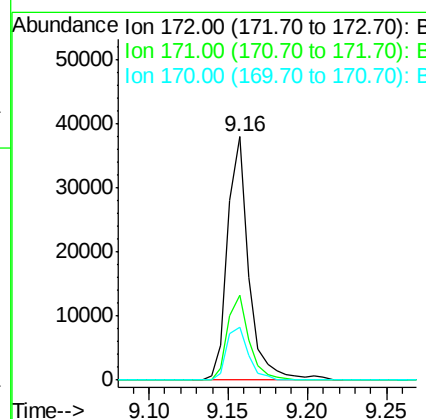
Manual Integrations
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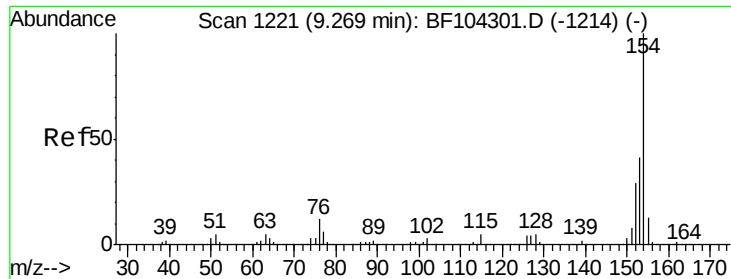
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#44
 2-Fluorobiphenyl
 Concen: 4.144 ng
 RT: 9.16 min Scan# 1202
 Delta R.T. -0.01 min
 Lab File: BF104868.D
 Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.7	29.7	44.5
170	22.0	19.6	29.4





#45

1,1'-Biphenyl

Concen: 2.174 ng

RT: 9.26 min Scan# 1219

Delta R.T. -0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Instrument :

BNA_F

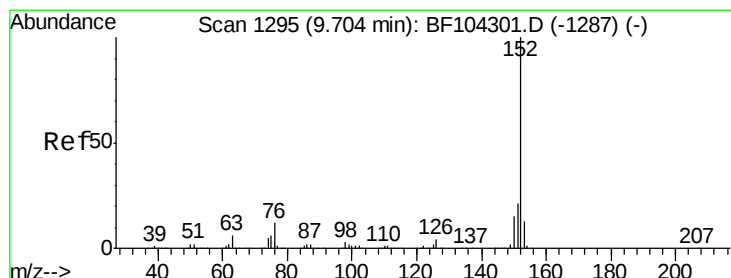
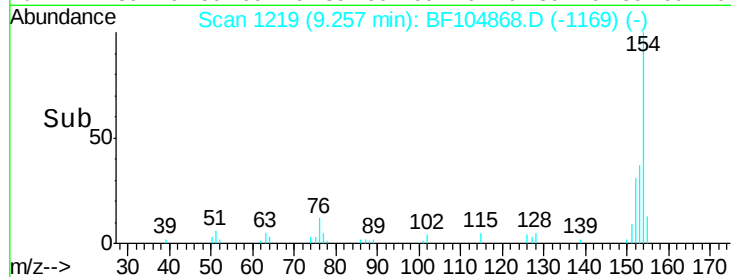
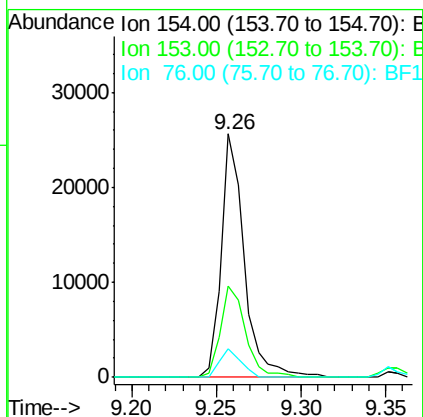
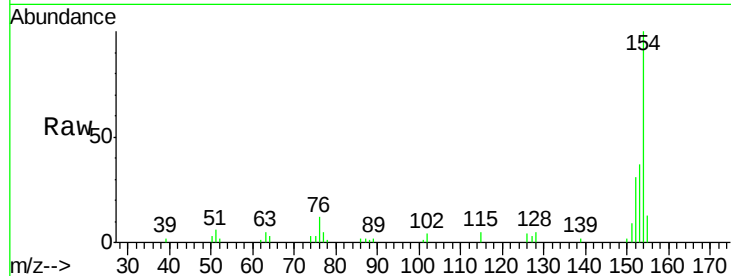
ClientSampleId :

TP-5 2.0-2.5

Tot Ion:	154	Resp:	24526
Ion Ratio	Lower	Upper	
154	100		
153	37.3	21.3	61.3
76	11.8	0.0	34.0

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#48

Acenaphthylene

Concen: 3.803 ng

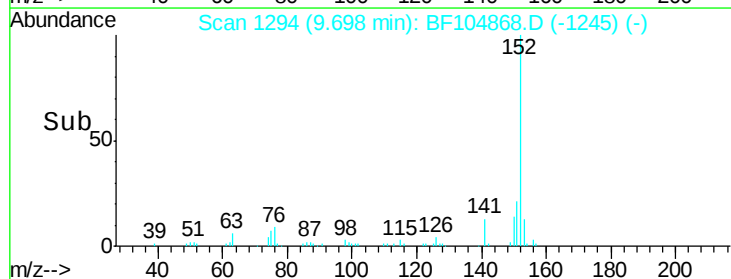
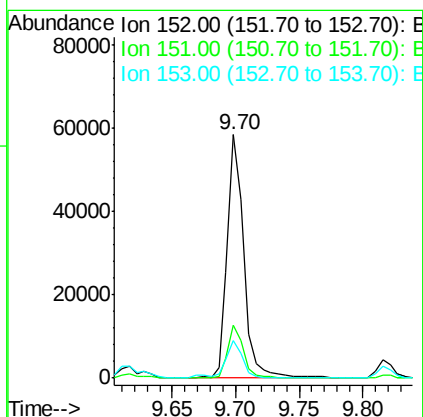
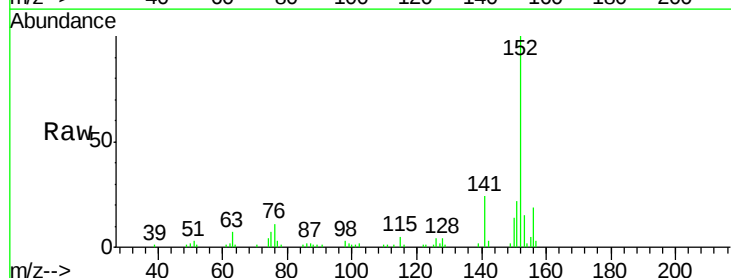
RT: 9.70 min Scan# 1294

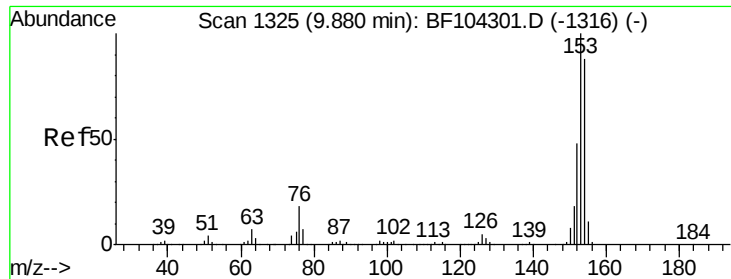
Delta R.T. -0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Tgt Ion:	152	Resp:	53178
Ion Ratio	Lower	Upper	
152	100		
151	21.5	16.3	24.5
153	15.2	10.7	16.1





#51

Acenaphthene

Concen: 13.441 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Instrument :

BNA_F

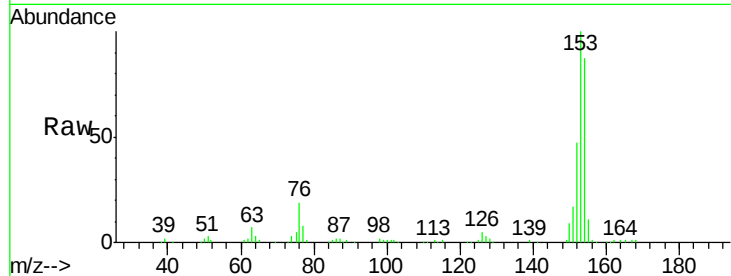
ClientSampleId :

TP-5 2.0-2.5

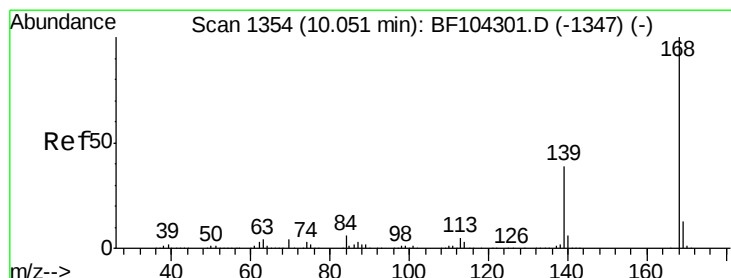
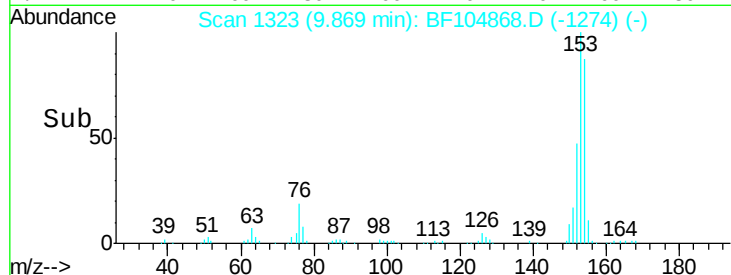
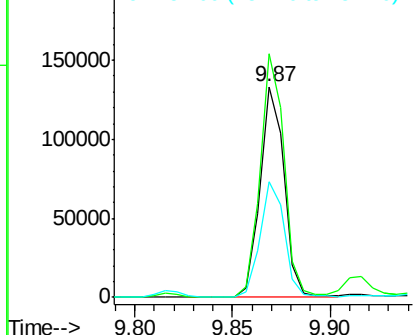
Tot Ion:	154	Resp:	114668
Ion Ratio	Lower	Upper	
154	100		
153	115.5	91.2	136.8
152	54.9	43.8	65.8

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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: 12.644 ng

RT: 10.05 min Scan# 1353

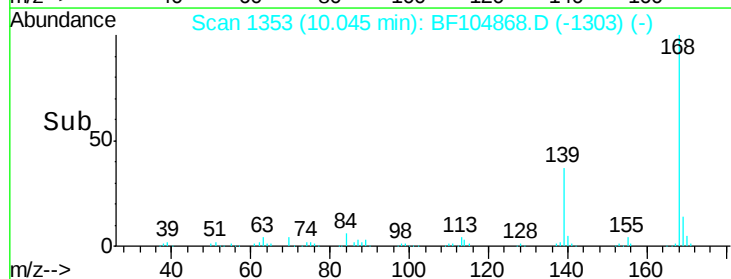
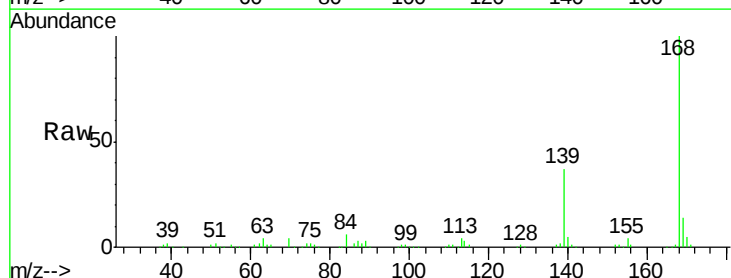
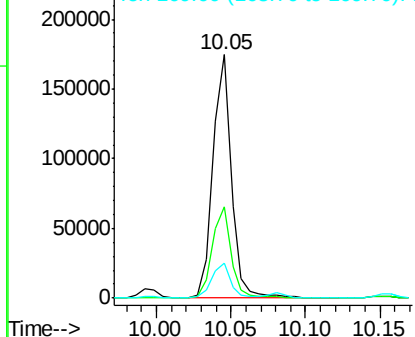
Delta R.T. -0.01 min

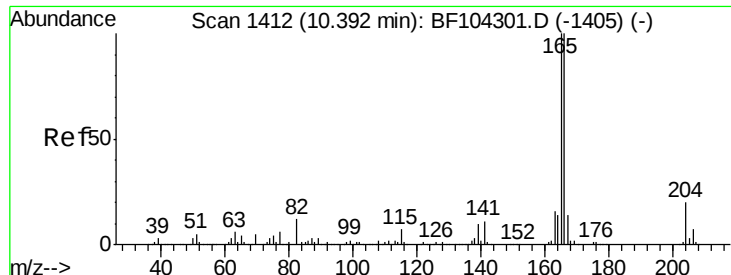
Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Tgt Ion:	168	Resp:	150325
Ion Ratio	Lower	Upper	
168	100		
139	37.3	30.1	45.1
169	14.3	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





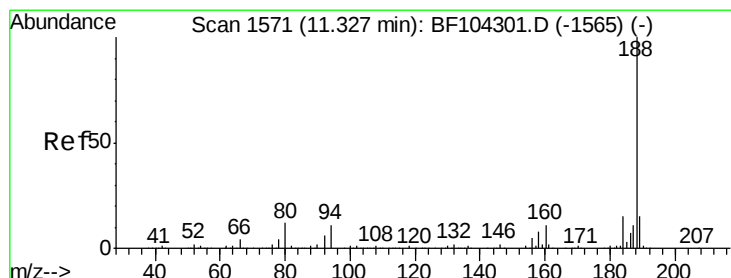
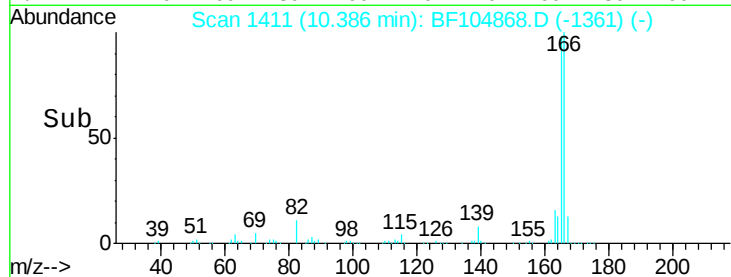
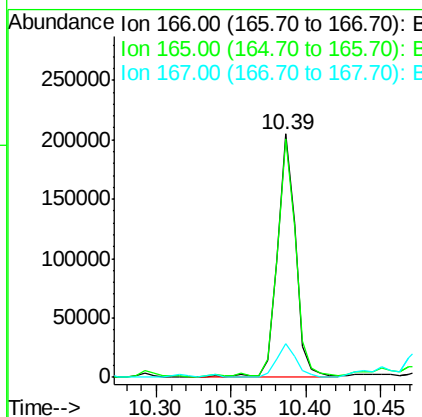
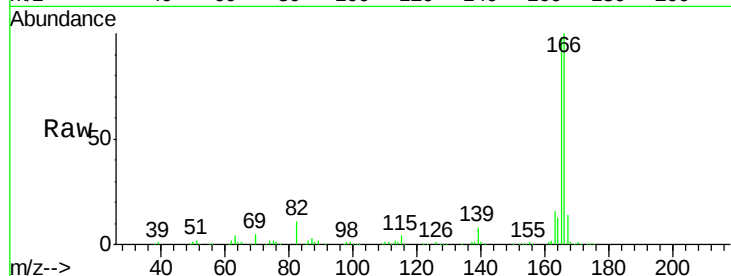
#57
Fluorene
 Concen: 19.993 ng
 RT: 10.39 min Scan# 1411
 Delta R.T. -0.01 min
 Lab File: BF104868.D
 Acq: 27 Apr 2018 7:51

Instrument :
 BNA_F
 ClientSampleId :
 TP-5 2.0-2.5

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		173020		
165	97.8	79.8	119.8		
167	13.8	10.6	16.0		

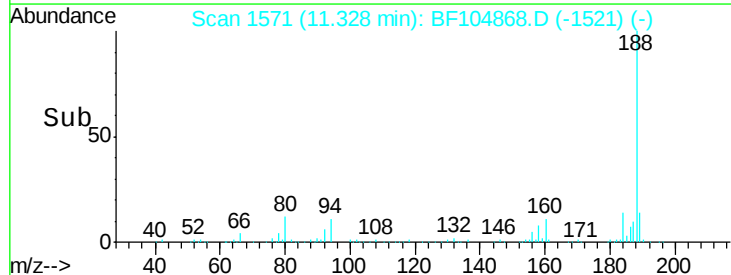
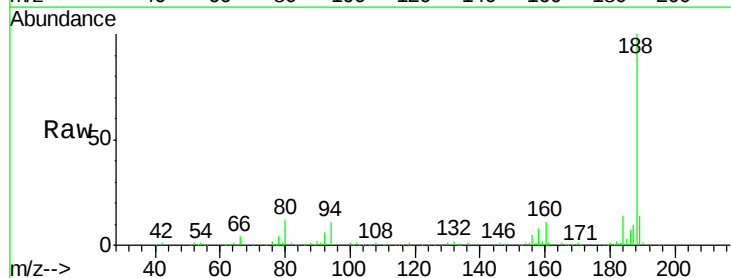
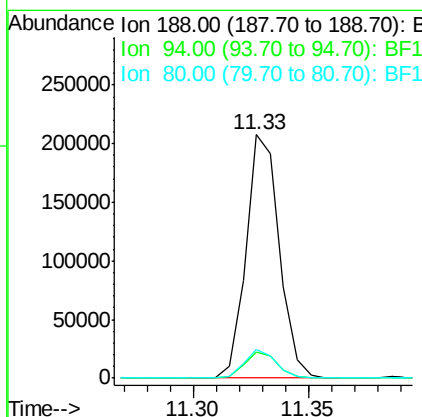
Manual Integrations
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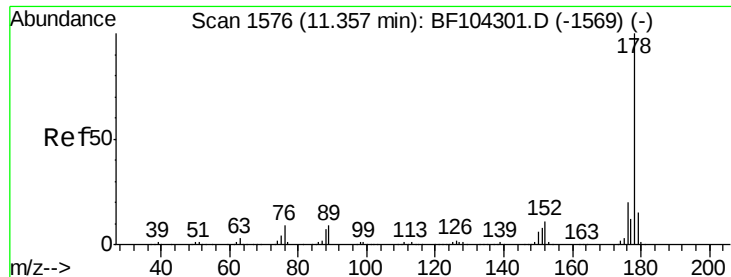
Sohil
 4/27/2018 7:30:21 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1571
 Delta R.T. -0.01 min
 Lab File: BF104868.D
 Acq: 27 Apr 2018 7:51

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		207932		
94	10.6	8.5	12.7		
80	11.7	9.2	13.8		





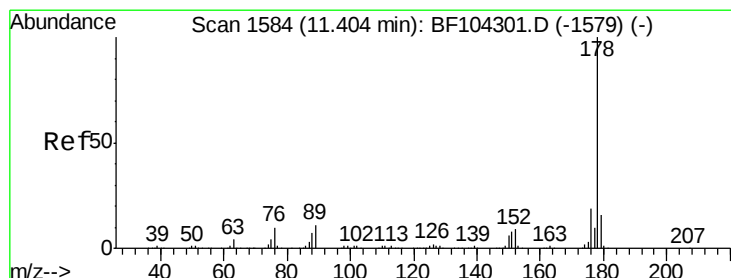
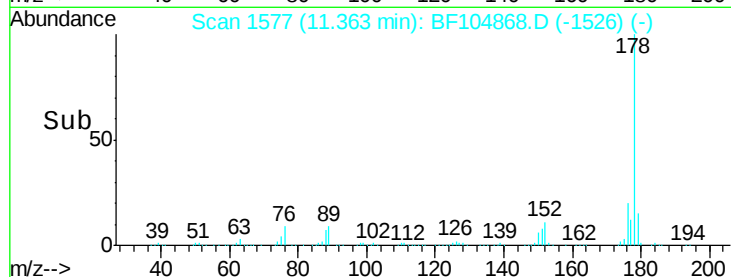
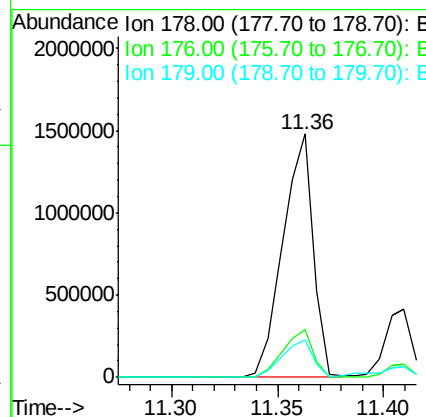
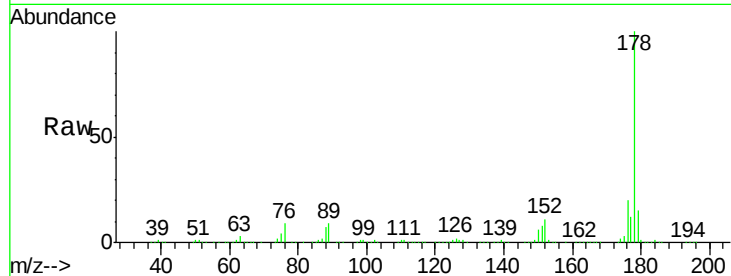
#70
Phenanthrene
Concen: 128.036 ng
RT: 11.36 min Scan# 1577
Delta R.T. -0.00 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Instrument :
BNA_F
ClientSampleId :
TP-5 2.0-2.5

Tot Ion	Ion	Ratio	Lower	Upper
178	100			
176	19.8	15.8	23.8	
179	15.4	13.0	19.6	

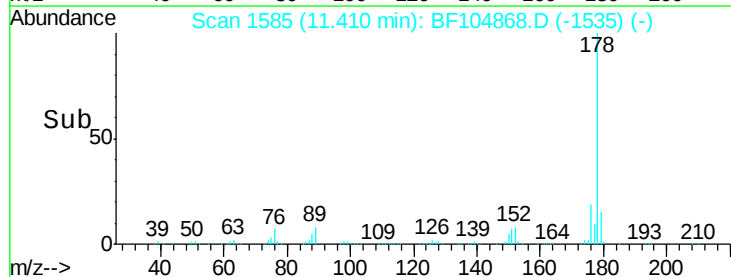
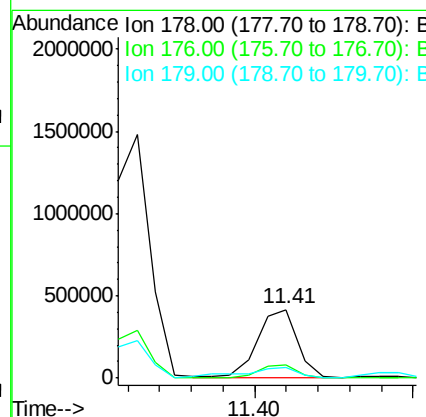
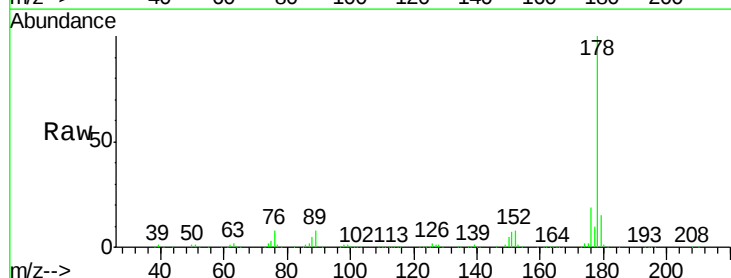
Manual Integrations
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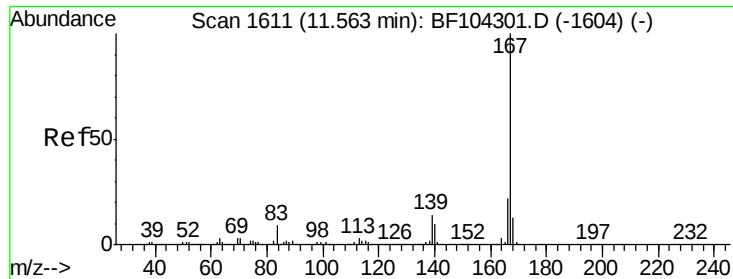
Sohil
4/27/2018 7:30:21 PM



#71
Anthracene
Concen: 30.577 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.01 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Tgt Ion	Ion	Ratio	Lower	Upper
178	100			
176	18.7	15.4	23.2	
179	15.1	12.6	19.0	





#72

Carbazole

Concen: 15.459 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Instrument :

BNA_F

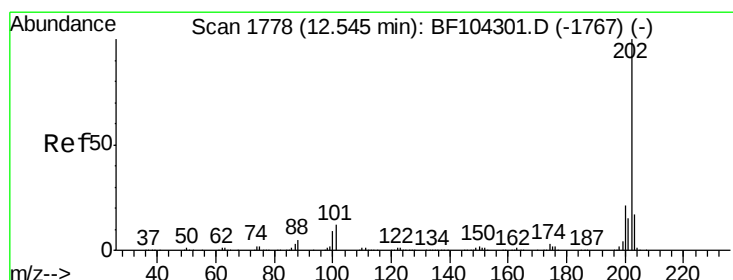
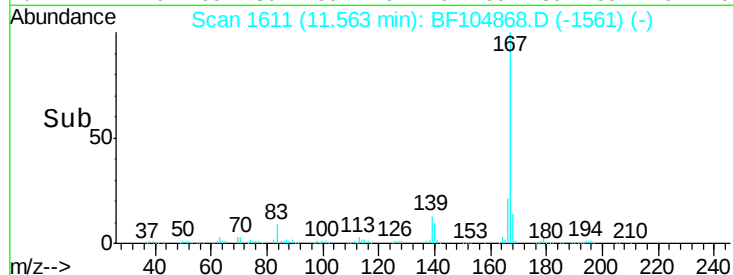
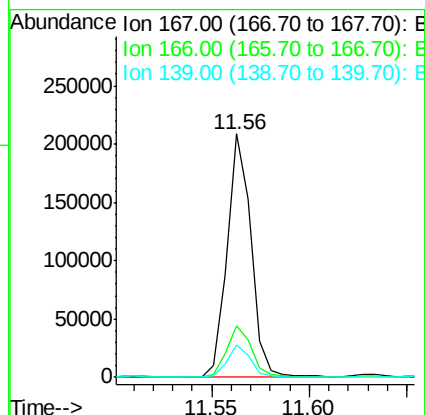
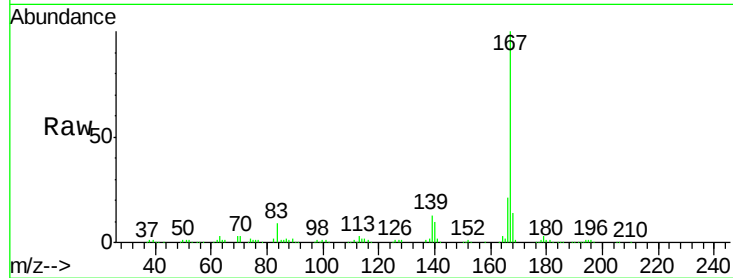
ClientSampleId :

TP-5 2.0-2.5

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.6	26.4
139	13.1	10.9	16.3

Manual Integrations
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#74

Fluoranthene

Concen: 130.577 ng

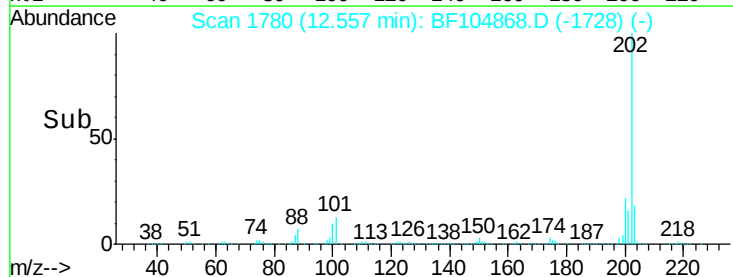
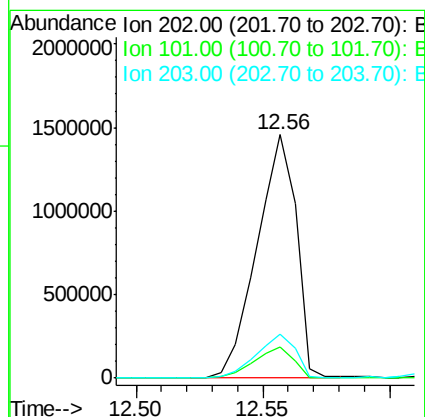
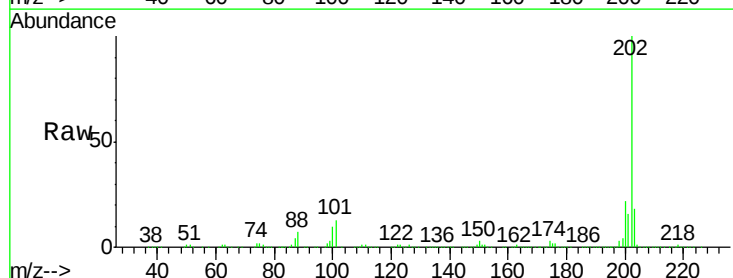
RT: 12.56 min Scan# 1780

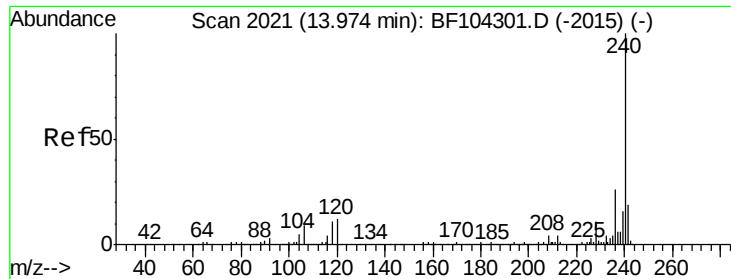
Delta R.T. 0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.9	0.0	34.1
203	18.0	0.0	38.1





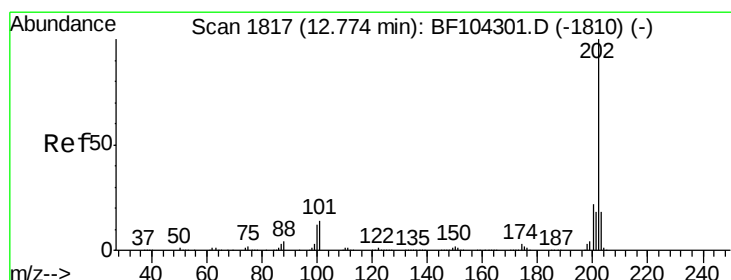
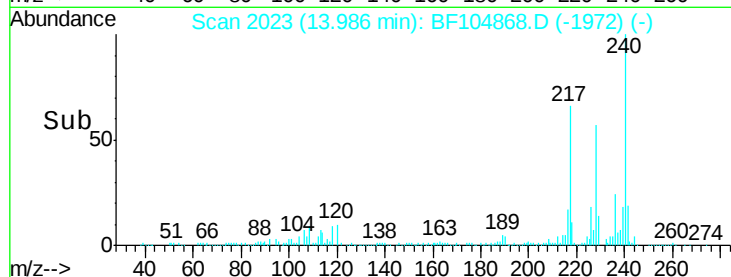
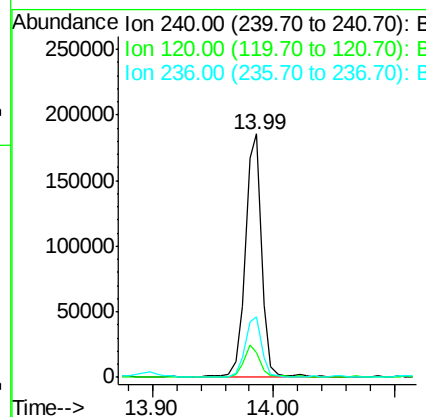
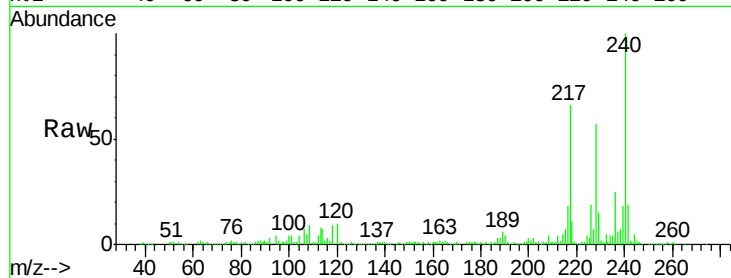
#75
Chrysene-d12
Concen: 20.000 ng
RT: 13.99 min Scan# 2023
Delta R.T. -0.00 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Instrument :
BNA_F
ClientSampleId :
TP-5 2.0-2.5

Tot Ion	Ratio	Lower	Upper
240	100		
120	10.2	9.5	14.3
236	24.8	20.7	31.1

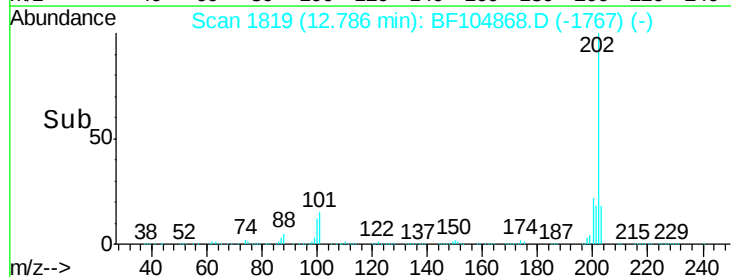
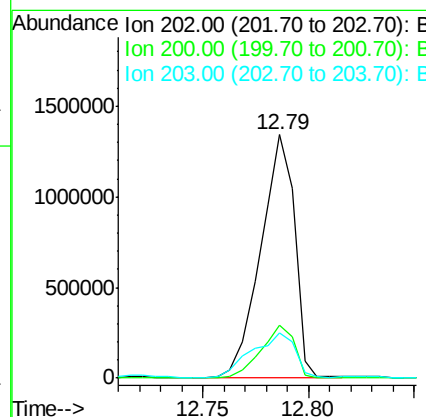
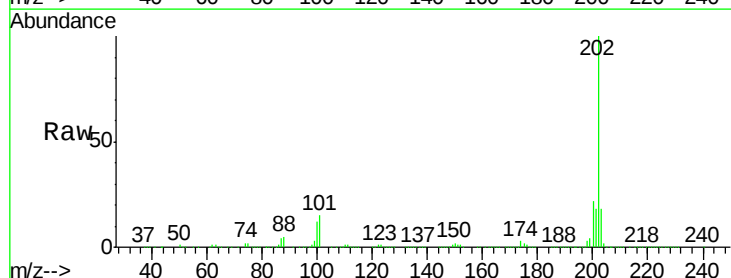
Manual Integrations
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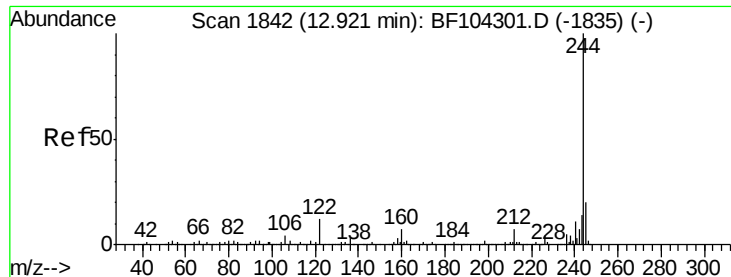
Sohil
4/27/2018 7:30:21 PM



#77
Pyrene
Concen: 114.007 ng
RT: 12.79 min Scan# 1819
Delta R.T. 0.01 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.7	17.4	26.2
203	18.4	14.3	21.5





#78

Terphenyl-d14

Concen: 3.687 ng

RT: 12.92 min Scan# 1841

Delta R.T. -0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Instrument :

BNA_F

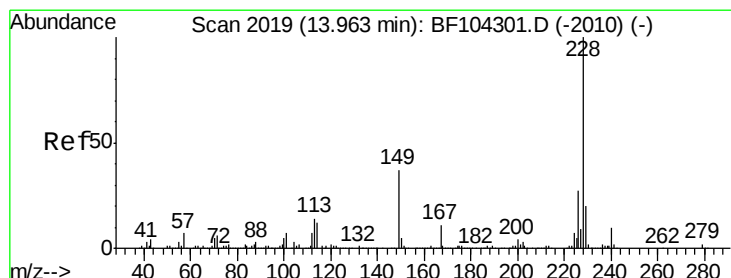
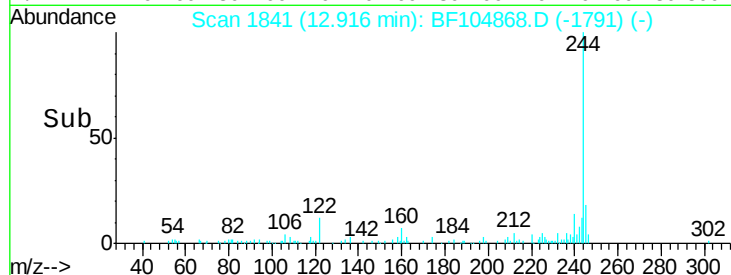
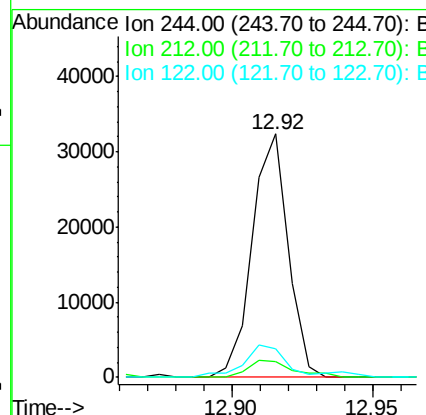
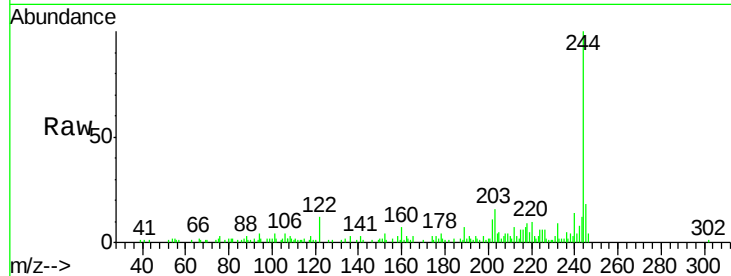
ClientSampleId :

TP-5 2.0-2.5

Tot Ion:	244	Resp:	28578
Ion Ratio	Lower	Upper	
244	100		
212	6.7	5.4	8.0
122	11.9	11.0	16.4

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 72.428 ng

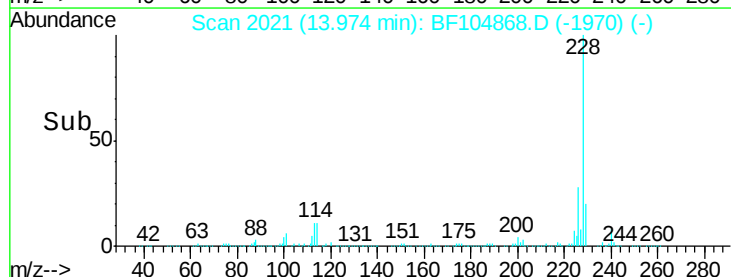
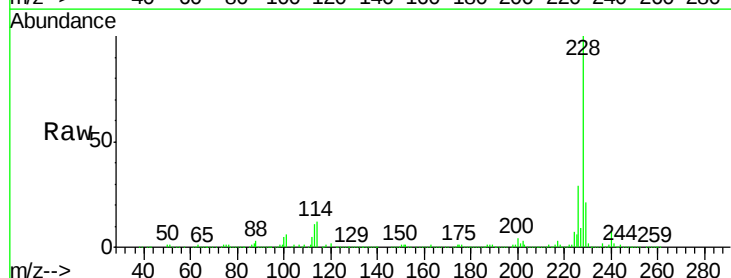
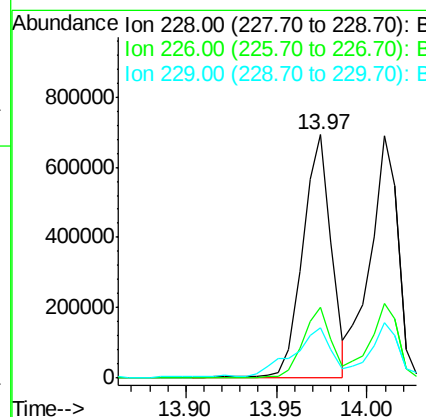
RT: 13.97 min Scan# 2021

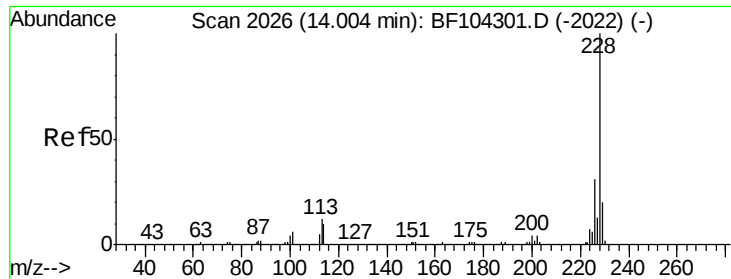
Delta R.T. 0.00 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Tgt Ion:	228	Resp:	764663
Ion Ratio	Lower	Upper	
228	100		
226	28.9	22.6	33.8
229	20.7	15.8	23.6





#82

Chrysene

Concen: 63.224 ng

RT: 14.01 min Scan# 2027

Delta R.T. -0.01 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Instrument :

BNA_F

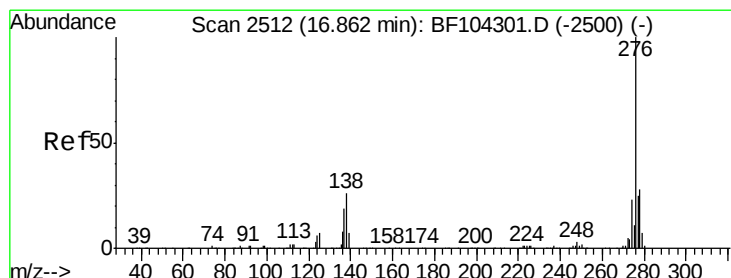
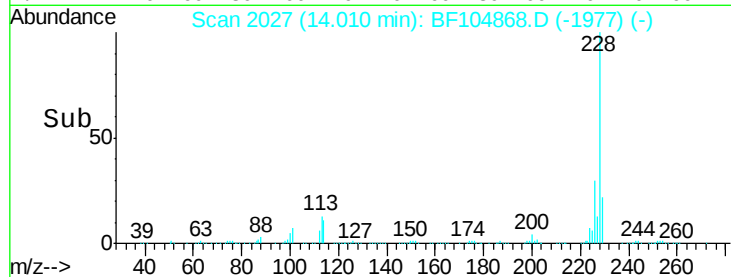
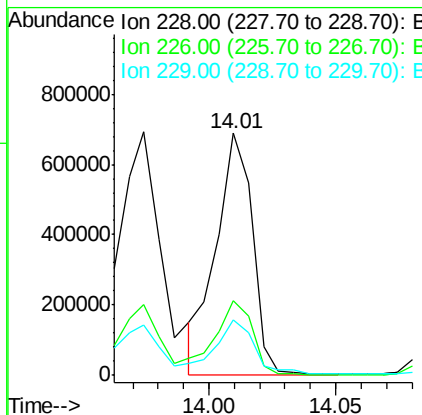
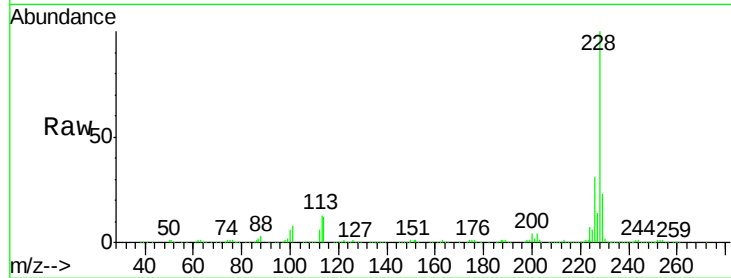
ClientSampleId :

TP-5 2.0-2.5

Tot Ion:	228	Resp:	685619
Ion Ratio	Lower	Upper	
228	100		
226	30.7	25.0	37.6
229	22.6	16.2	24.4

Manual Integrations
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#85

Indeno(1,2,3-cd)pyrene

Concen: 25.279 ng

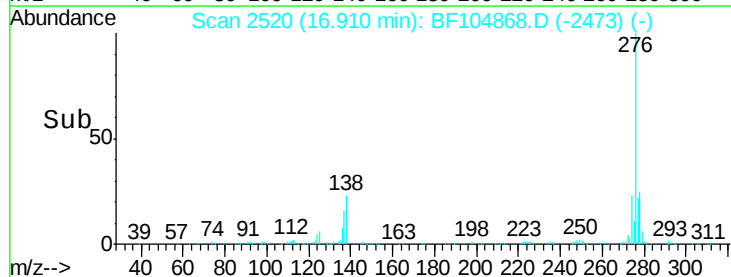
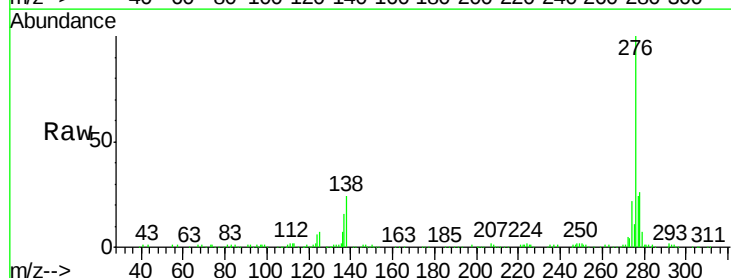
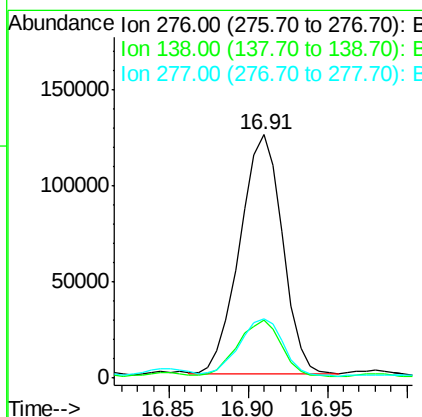
RT: 16.91 min Scan# 2520

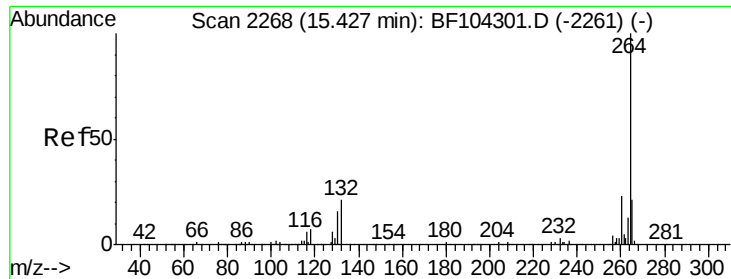
Delta R.T. -0.02 min

Lab File: BF104868.D

Acq: 27 Apr 2018 7:51

Tgt Ion:	276	Resp:	232873
Ion Ratio	Lower	Upper	
276	100		
138	24.6	25.0	37.6#
277	25.3	20.1	30.1





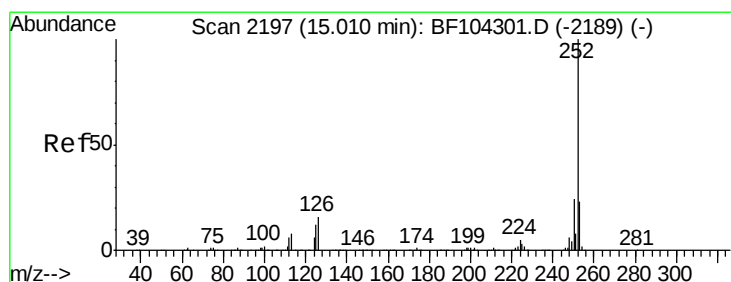
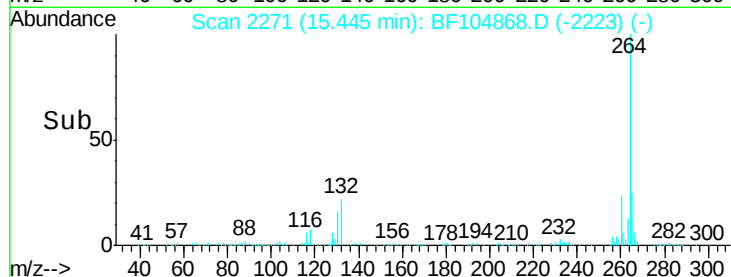
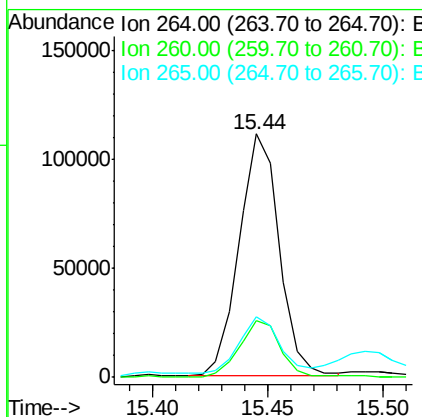
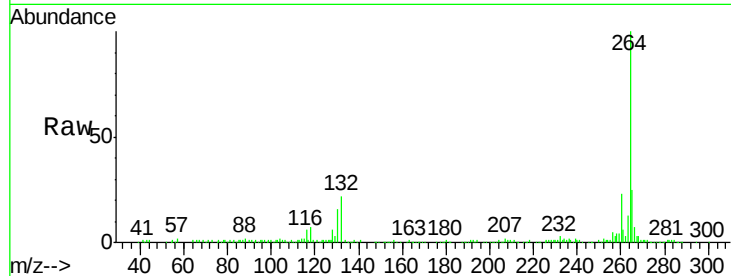
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2271
Delta R.T. -0.02 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Instrument :
BNA_F
ClientSampleId :
TP-5 2.0-2.5

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.3	19.2	28.8
265	24.9	17.5	26.3

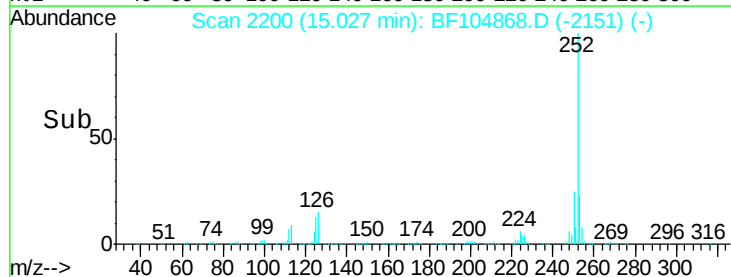
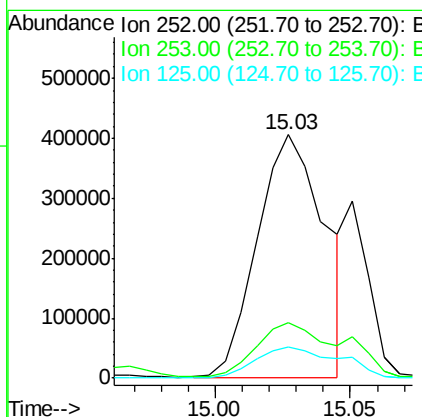
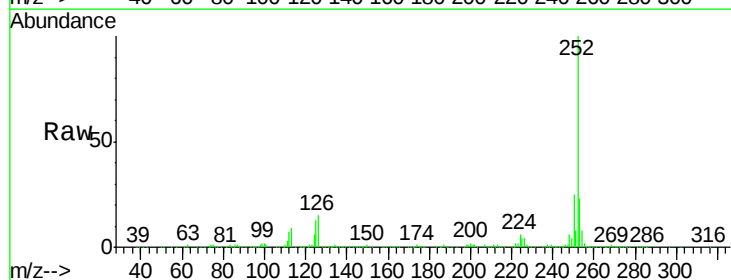
Manual Integrations
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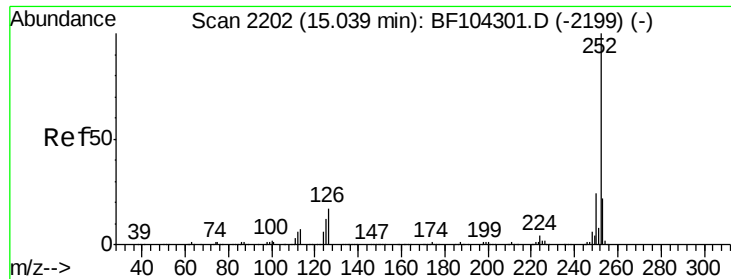
Sohil
4/27/2018 7:30:21 PM



#87
Benzo(b)fluoranthene
Concen: 82.197 ng m
RT: 15.03 min Scan# 2200
Delta R.T. -0.01 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.0	25.6
125	12.9	9.0	13.6





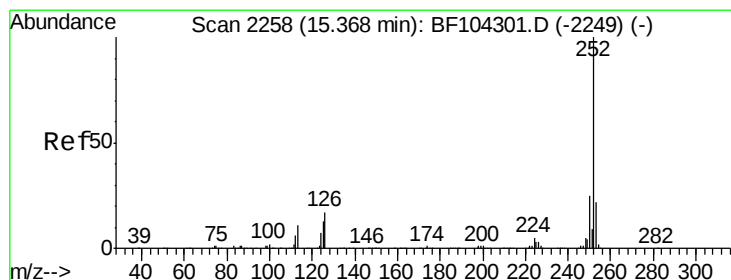
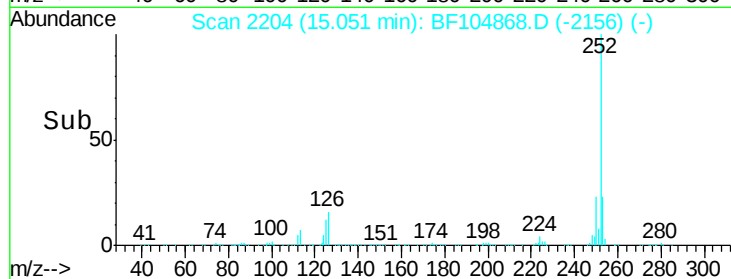
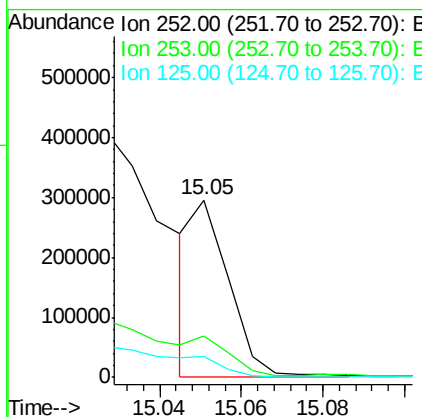
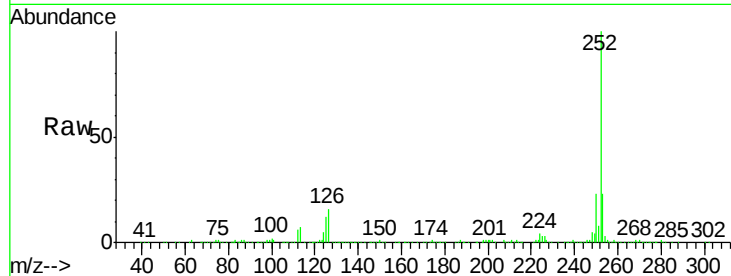
#88
Benzo(k)fluoranthene
Concen: 22.665 ng m
RT: 15.05 min Scan# 2204
Delta R.T. -0.02 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Instrument :
BNA_F
ClientSampled :
TP-5 2.0-2.5

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.9	26.9
125	11.8	10.2	15.2

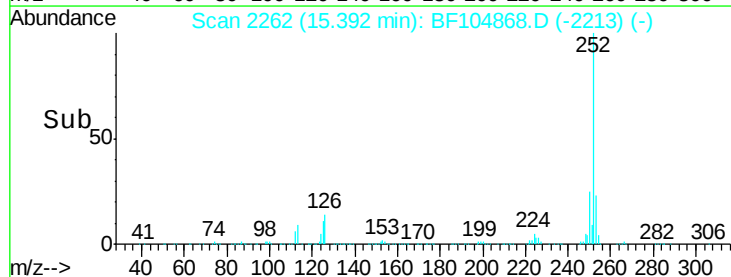
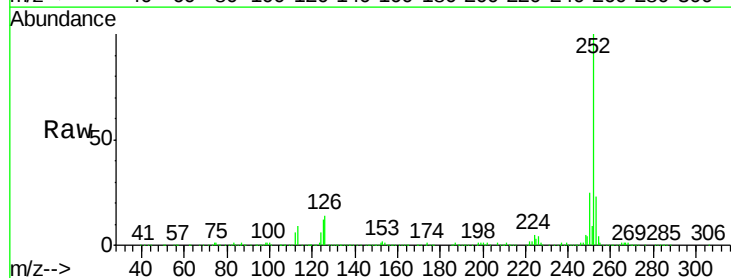
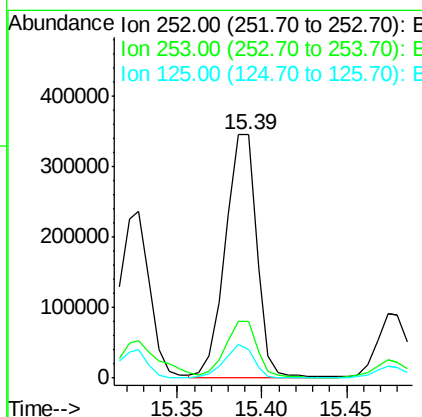
Manual Integrations
APPROVED

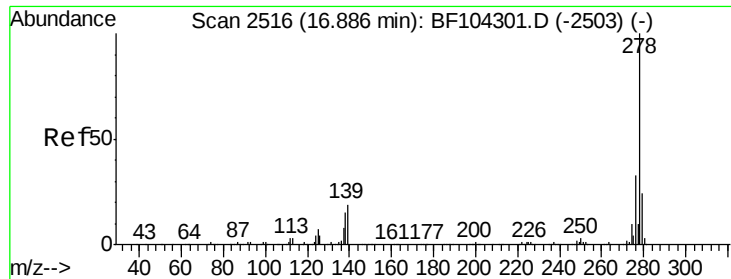
Sohil
4/27/2018 7:30:21 PM



#89
Benzo(a)pyrene
Concen: 58.271 ng
RT: 15.39 min Scan# 2262
Delta R.T. -0.01 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.1	25.7
125	11.6	9.8	14.6





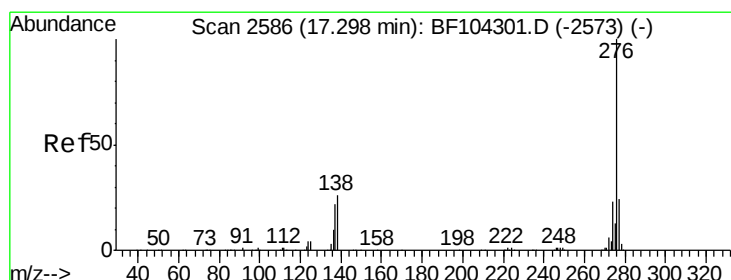
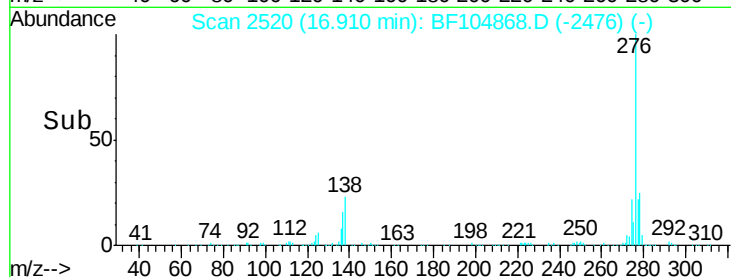
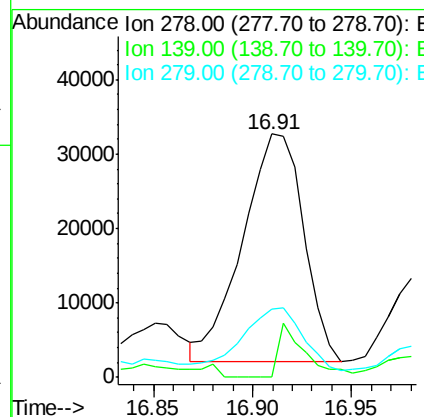
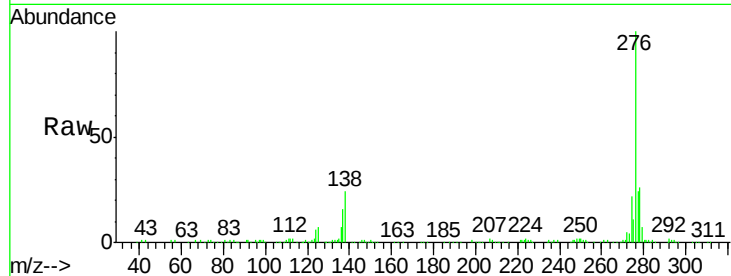
#90
Dibenzo(a,h)anthracene
Concen: 10.479 ng m
RT: 16.91 min Scan# 2520
Delta R.T. -0.04 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Instrument :
BNA_F
ClientSampleId :
TP-5 2.0-2.5

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	27.8	19.0	28.4

Manual Integrations
APPROVED

Sohil
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#91
Benzo(g,h,i)perylene
Concen: 36.411 ng
RT: 17.36 min Scan# 2596
Delta R.T. -0.02 min
Lab File: BF104868.D
Acq: 27 Apr 2018 7:51

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	17.9	26.9
138	22.6	21.8	32.8

