

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040918\
 Data File : BF104367.D
 Acq On : 9 Apr 2018 13:05
 Operator : JU/SJ
 Sample : J2184-05 10X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-3-1(1-3)

Manual Integrations
 APPROVED

Sohil
 4/10/2018 12:00:13 PM

Quant Time: Apr 10 01:45:28 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040618.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 06 16:44:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	138626	20.00	ng	0.00
21) Naphthalene-d8	8.09	136	551452	20.00	ng	0.00
38) Acenaphthene-d10	9.84	164	253227	20.00	ng	0.00
63) Phenanthrene-d10	11.33	188	432461	20.00	ng	0.00
75) Chrysene-d12	13.97	240	247303	20.00	ng	0.00
86) Perylene-d12	15.44	264	296128	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.40	112	123702	13.64	ng	0.00
7) Phenol-d6	6.42	99	153280	13.76	ng	-0.01
23) Nitrobenzene-d5	7.36	82	81545	9.66	ng	-0.01
41) 2,4,6-Tribromophenol	10.63	330	33570	12.78	ng	0.00
44) 2-Fluorobiphenyl	9.16	172	165054	10.30	ng	0.00
78) Terphenyl-d14	12.92	244	128832	11.88	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.11	128	714089	26.005	ng	99
37) 2-Methylnaphthalene	8.80	142	162963	9.175	ng	97
45) 1,1'-Biphenyl	9.26	154	50755	2.386	ng	98
48) Acenaphthylene	9.70	152	113248	4.296	ng	100
51) Acenaphthene	9.87	154	262369	16.311	ng	99
54) Dibenzofuran	10.04	168	325154	14.505	ng	99
57) Fluorene	10.39	166	427991	26.231	ng	99
70) Phenanthrene	11.37	178	2273426	94.398	ng	99
71) Anthracene	11.41	178	751209	30.685	ng	100
72) Carbazole	11.56	167	403262	16.857	ng	99
74) Fluoranthene	12.56	202	2041452	81.130	ng	98
77) Pyrene	12.78	202	1674287	91.337	ng	99
80) Benzo(a)anthracene	13.97	228	791913	53.601	ng	99
82) Chrysene	14.00	228	714855	47.106	ng	97
85) Indeno(1,2,3-cd)pyrene	16.88	276	472731m	36.671	ng	
87) Benzo(b)fluoranthene	15.02	252	904535m	48.363	ng	
88) Benzo(k)fluoranthene	15.04	252	337779m	19.130	ng	
89) Benzo(a)pyrene	15.38	252	701257	41.905	ng	95
90) Dibenzo(a,h)anthracene	16.89	278	120470	8.765	ng	95
91) Benzo(a,h,i)perylene	17.32	276	401340	30.140	ng	98

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

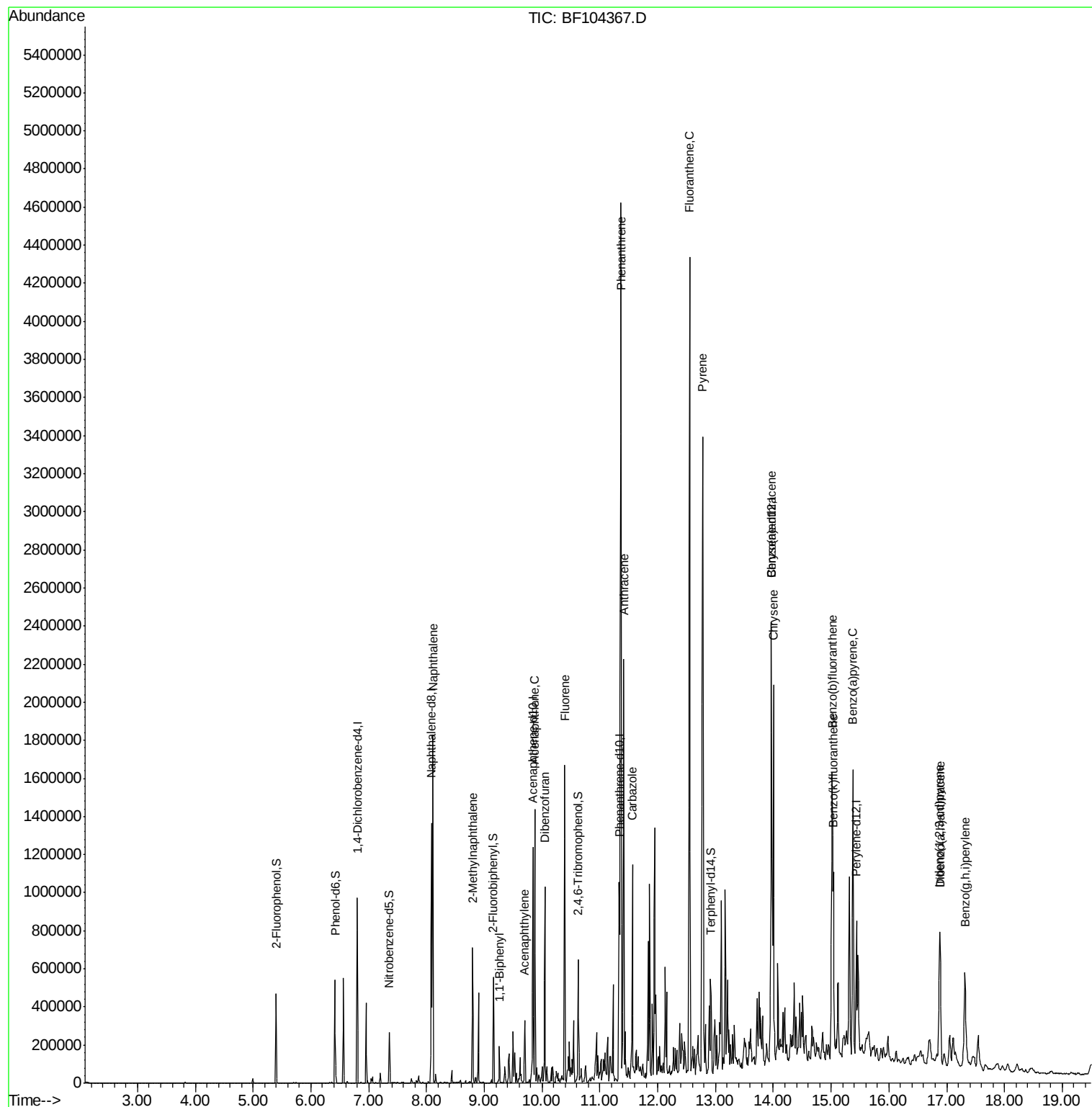
Data Path : Z:\HPCHEM1\BNA F\DATA\BF040918\
Data File : BF104367.D
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Sample : J2184-05 10X
Misc :
ALS Vial : 10 Sample Multiplier: 1

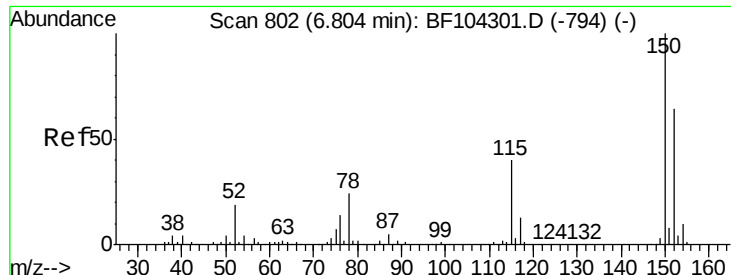
Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)

Manual Integrations
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#1

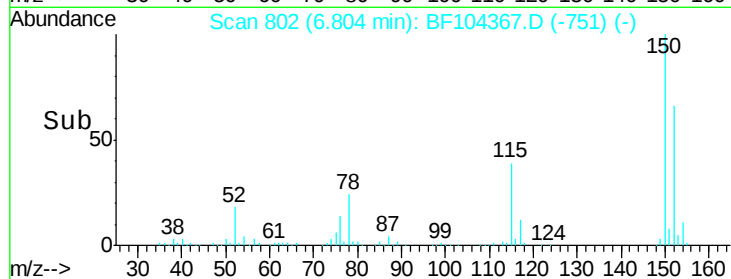
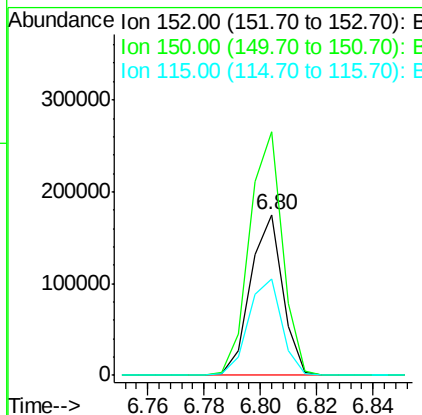
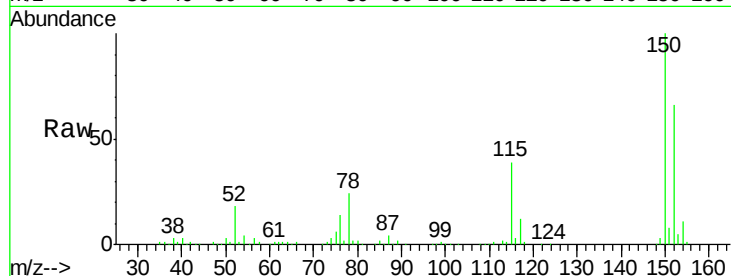
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.00 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)

Tot Ion	Ratio	Lower	Upper
152	100		
150	151.4	124.6	186.8
115	59.8	50.1	75.1

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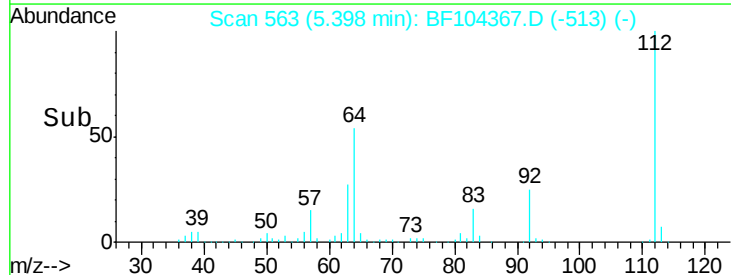
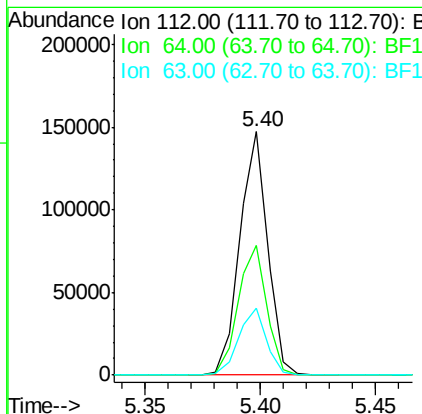
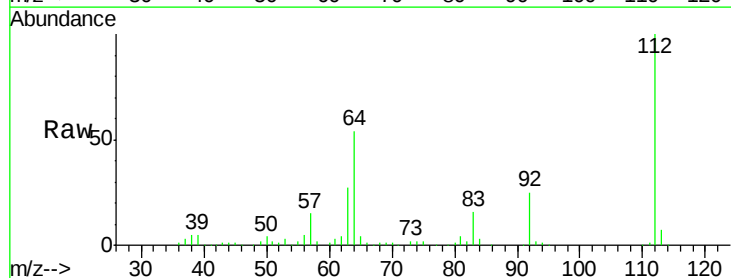
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#5

2-Fluorophenol
Concen: 13.644 ng
RT: 5.40 min Scan# 563
Delta R.T. -0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	53.5	47.9	71.9
63	27.3	23.7	35.5





#7

Phenol-d6

Concen: 13.760 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.01 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Instrument :

BNA_F

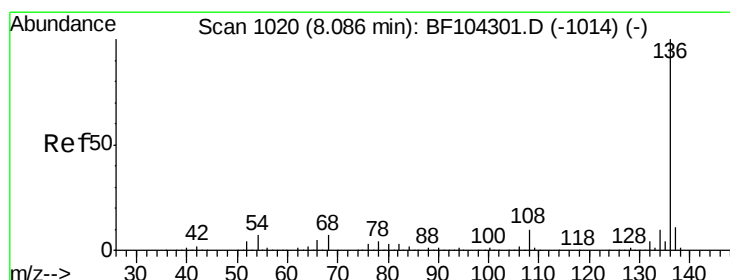
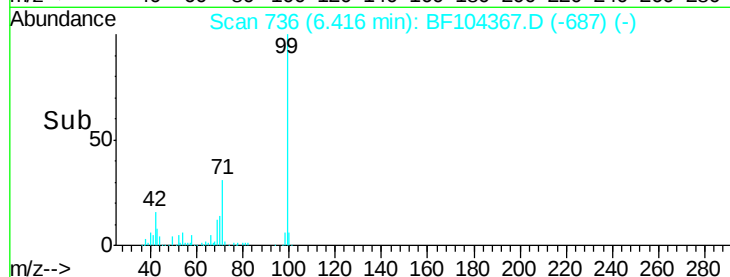
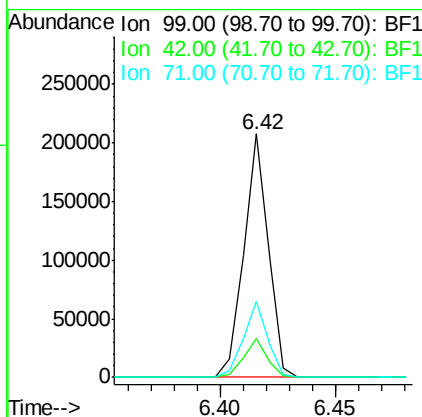
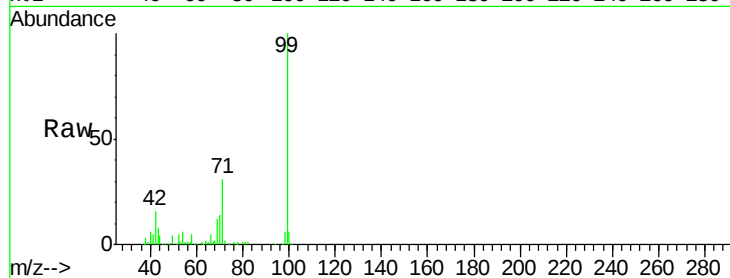
ClientSampleId :

SB-3-1(1-3)

Tot Ion:	99	Resp:	153280
Ion Ratio	Lower	Upper	
99	100		
42	15.7	14.5	21.7
71	31.1	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

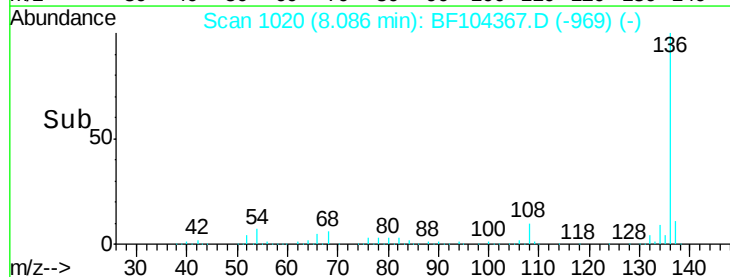
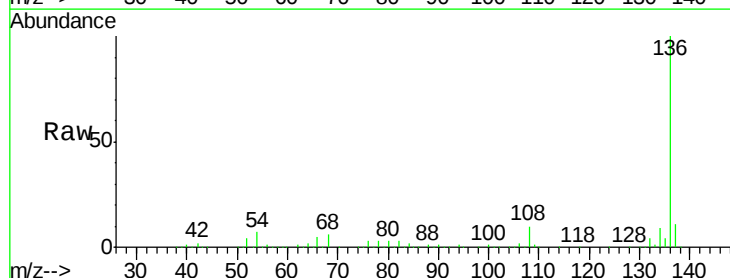
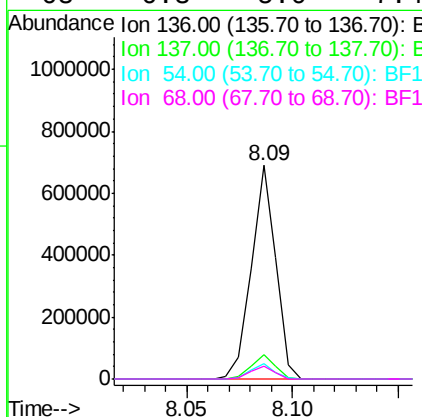
RT: 8.09 min Scan# 1020

Delta R.T. -0.00 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Tgt Ion:	136	Resp:	551452
Ion Ratio	Lower	Upper	
136	100		
137	11.2	8.9	13.3
54	7.3	6.6	9.8
68	6.3	5.0	7.4





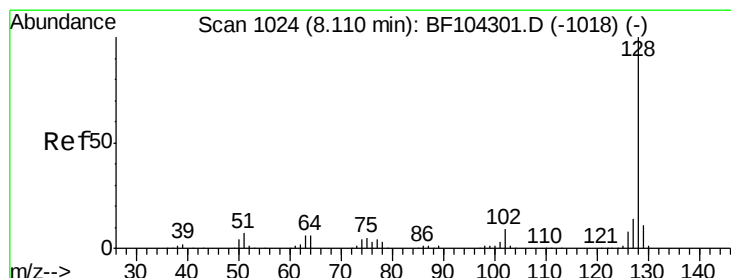
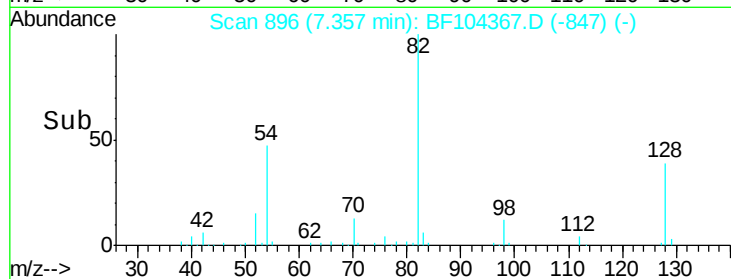
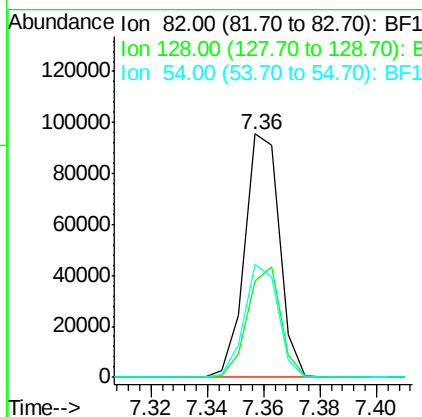
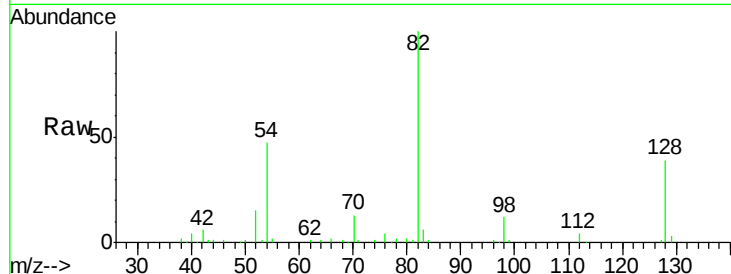
#23
 Nitrobenzene-d5
 Concen: 9.656 ng
 RT: 7.36 min Scan# 896
 Delta R.T. -0.01 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Instrument :
 BNA_F
 ClientSampled :
 SB-3-1(1-3)

Tot Ion	Ratio	Lower	Upper
82	100		
128	39.4	36.1	54.1
54	46.6	41.4	62.2

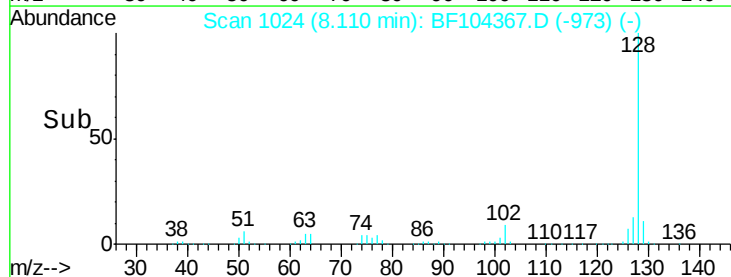
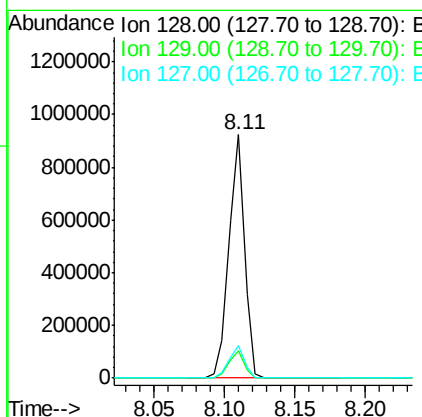
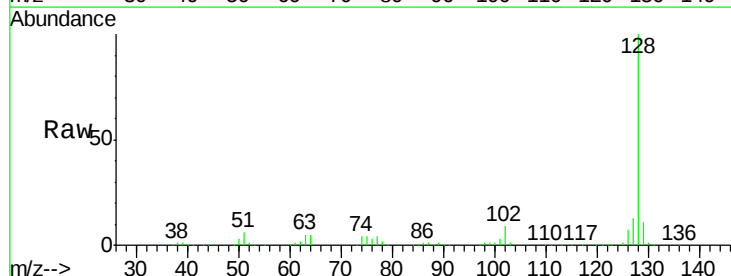
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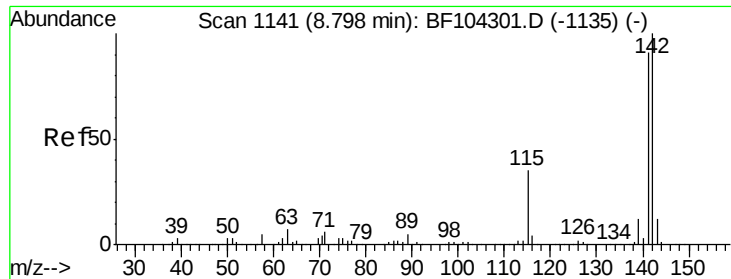
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#31
 Naphthalene
 Concen: 26.005 ng
 RT: 8.11 min Scan# 1024
 Delta R.T. -0.00 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.2	10.9	16.3





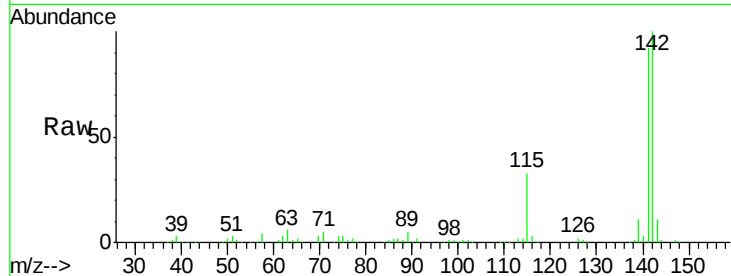
#37
2-Methylnaphthalene
Concen: 9.175 ng
RT: 8.80 min Scan# 1141
Delta R.T. -0.00 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)

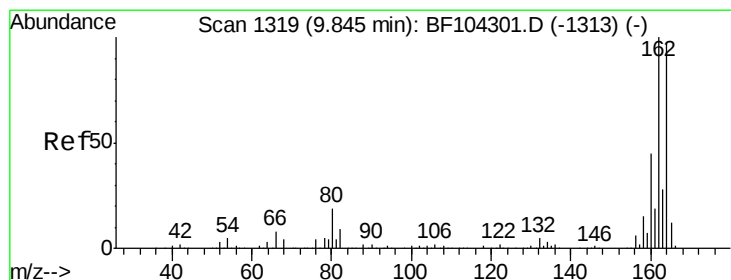
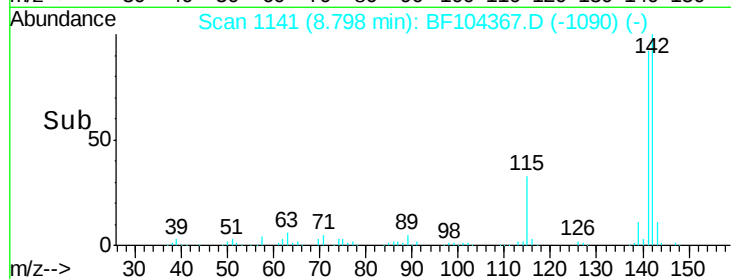
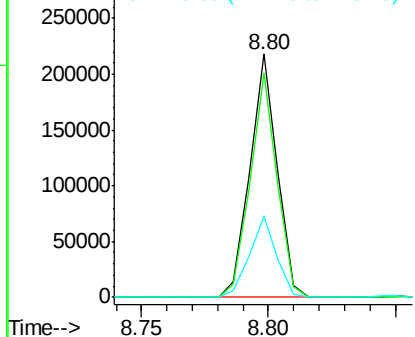
Tot Ion	Ratio	Lower	Upper
142	100		
141	91.9	70.8	106.2
115	33.2	26.1	39.1

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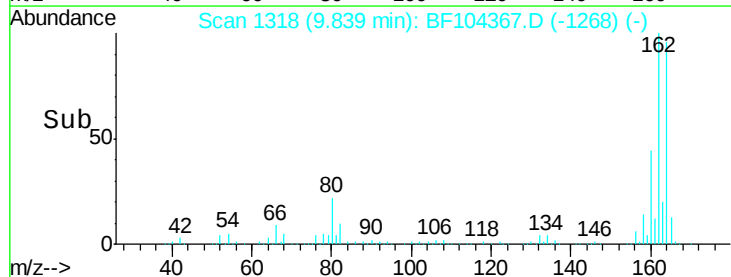
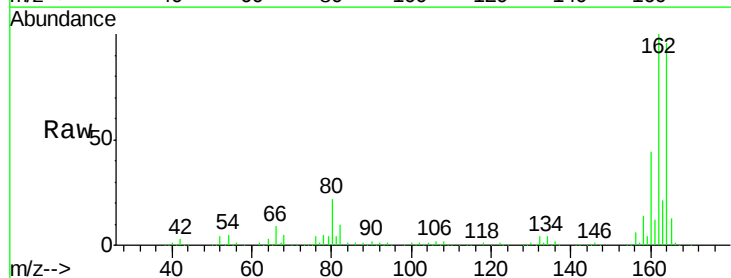
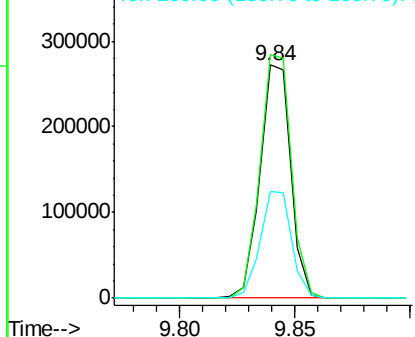
Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.84 min Scan# 1318
Delta R.T. -0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.5	86.1	129.1
160	45.9	38.3	57.5

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





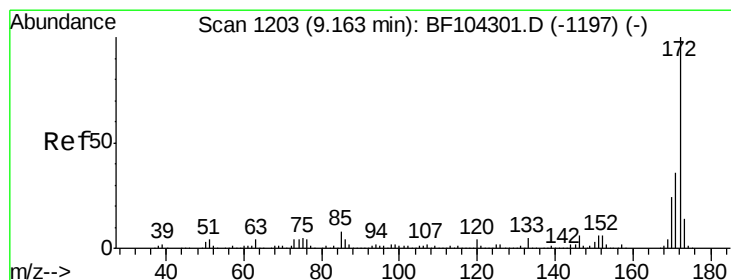
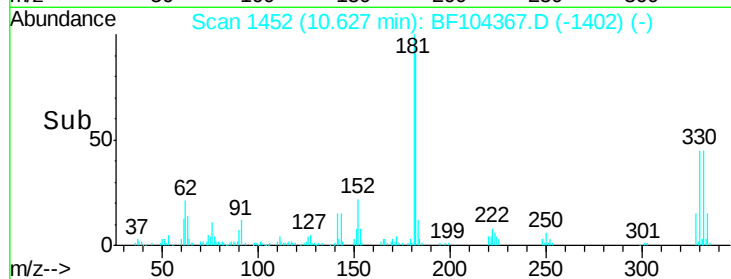
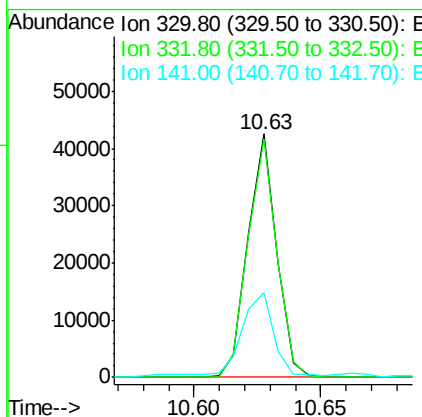
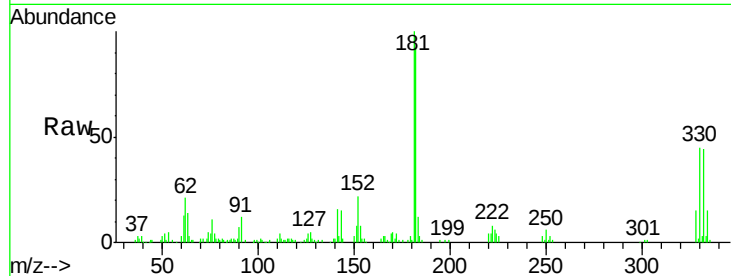
#41
 2,4,6-Tribromophenol
 Concen: 12.780 ng
 RT: 10.63 min Scan# 1452
 Delta R.T. -0.01 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Instrument :
 BNA_F
 ClientSampled :
 SB-3-1(1-3)

Tot Ion	Ratio	Resp	Lower	Upper
330	100			
332	98.6	77.0	115.6	
141	41.4	29.9	44.9	

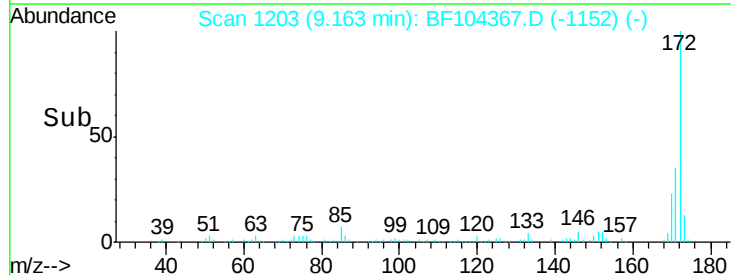
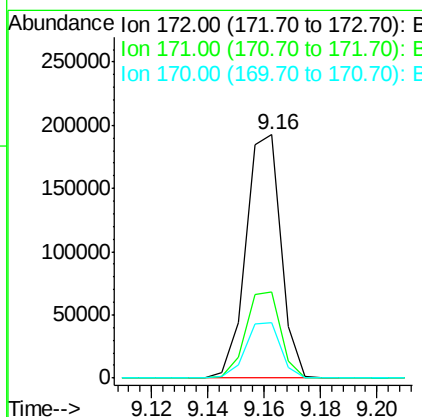
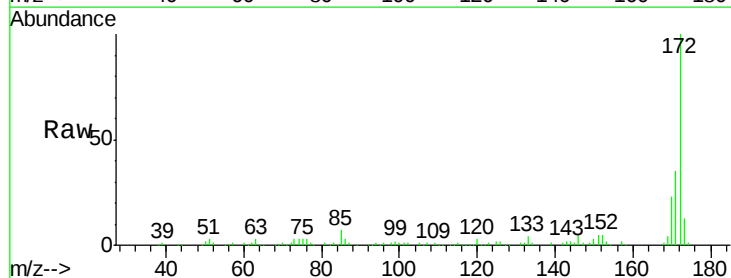
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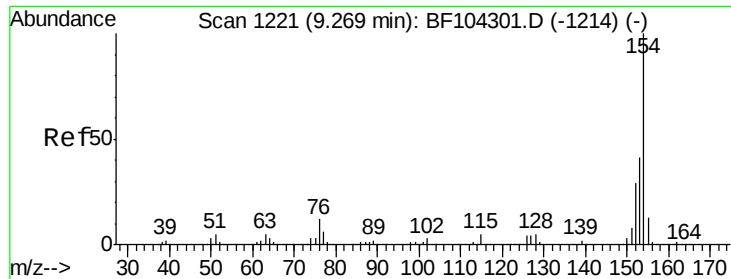
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#44
 2-Fluorobiphenyl
 Concen: 10.297 ng
 RT: 9.16 min Scan# 1203
 Delta R.T. 0.00 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
172	100			
171	35.3	29.7	44.5	
170	22.9	19.6	29.4	





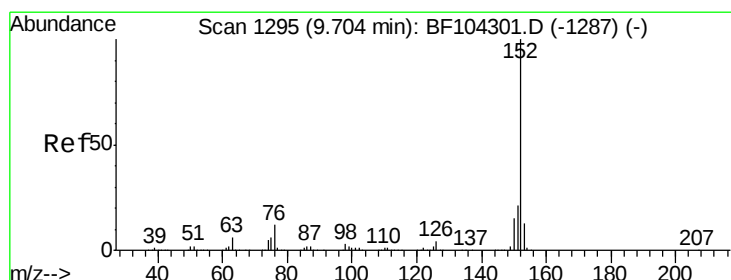
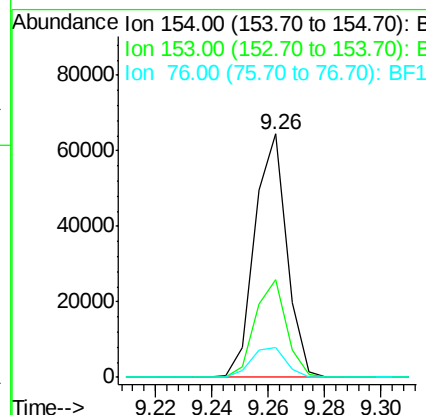
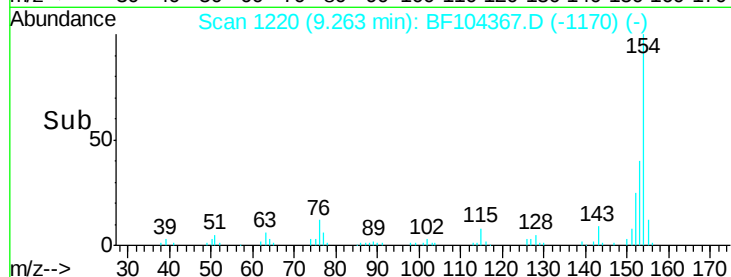
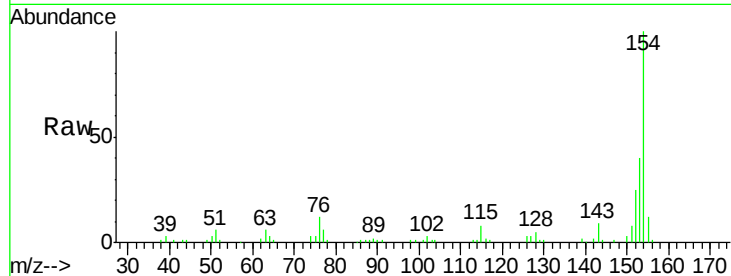
#45
 1,1'-Biphenyl
 Concen: 2.386 ng
 RT: 9.26 min Scan# 1220
 Delta R.T. -0.01 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Instrument :
 BNA_F
 ClientSampleId :
 SB-3-1(1-3)

Tot Ion:	154	Resp:	50755
Ion Ratio	Lower	Upper	
154	100		
153	40.1	21.3	61.3
76	12.3	0.0	34.0

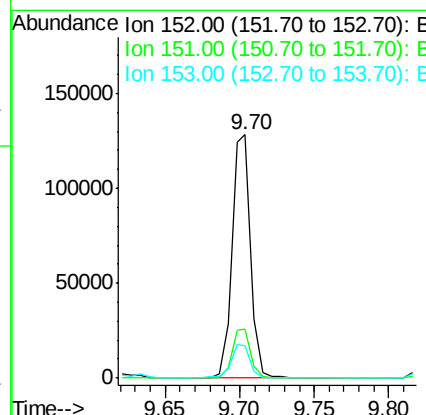
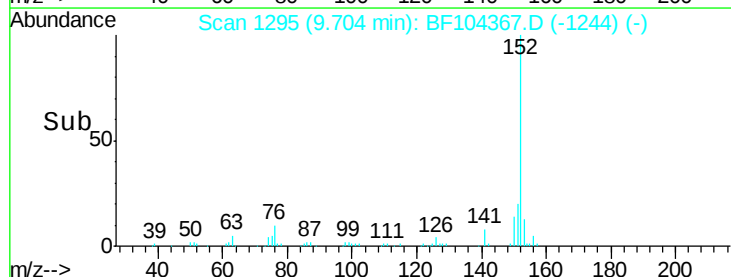
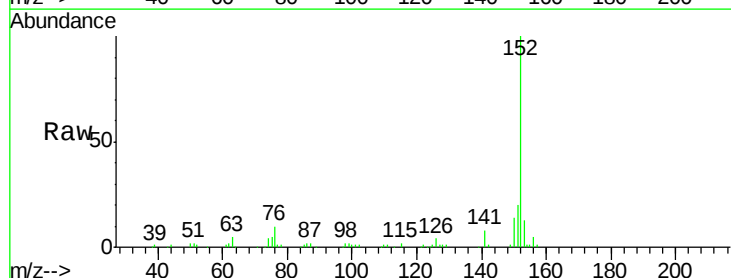
Manual Integrations
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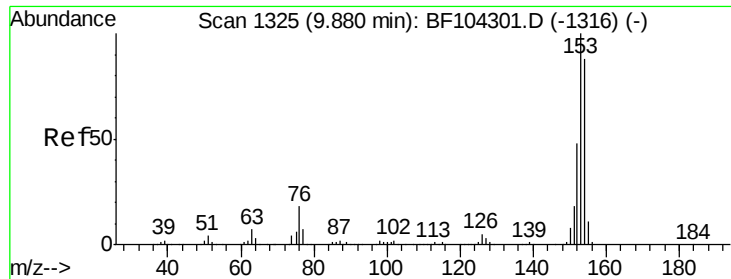
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#48
 Acenaphthylene
 Concen: 4.296 ng
 RT: 9.70 min Scan# 1295
 Delta R.T. -0.00 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Tgt Ion:	152	Resp:	113248
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.3	24.5
153	13.3	10.7	16.1





#51

Acenaphthene

Concen: 16.311 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Instrument :

BNA_F

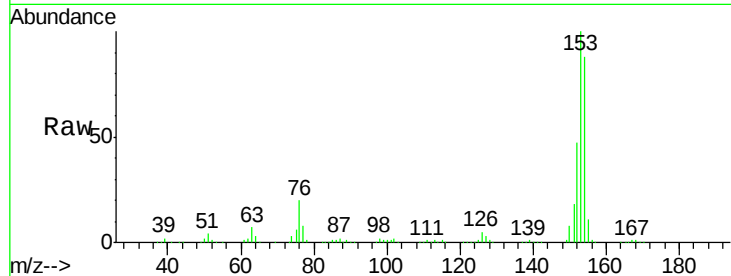
ClientSampled :

SB-3-1(1-3)

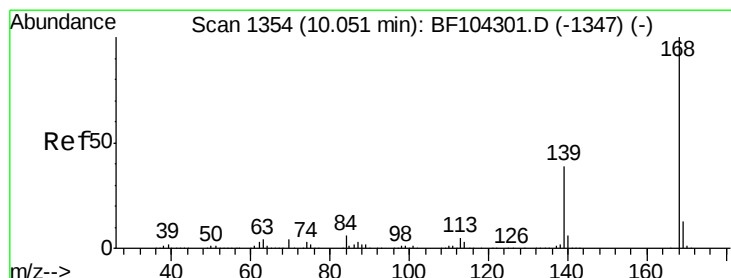
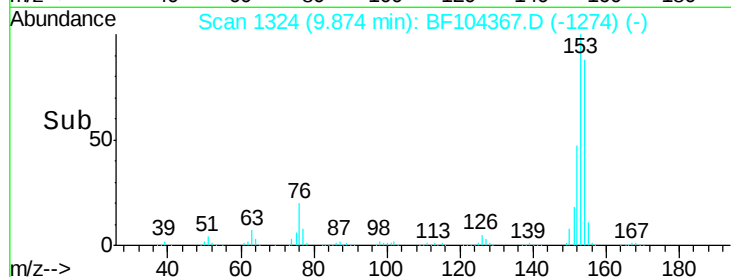
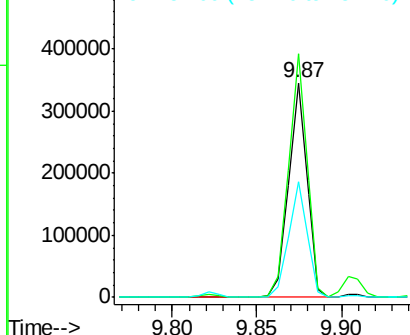
Tot Ion:	154	Resp:	262369
Ion Ratio	Lower	Upper	
154	100		
153	113.7	91.2	136.8
152	53.9	43.8	65.8

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



#54

Dibenzofuran

Concen: 14.505 ng

RT: 10.04 min Scan# 1353

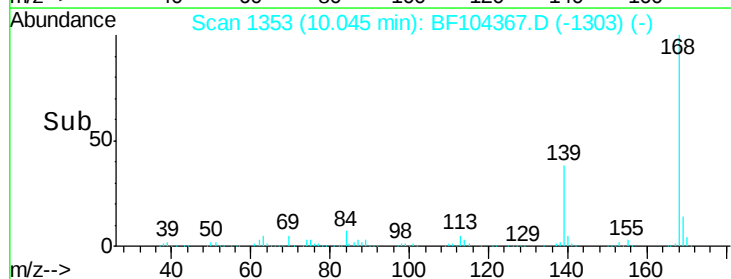
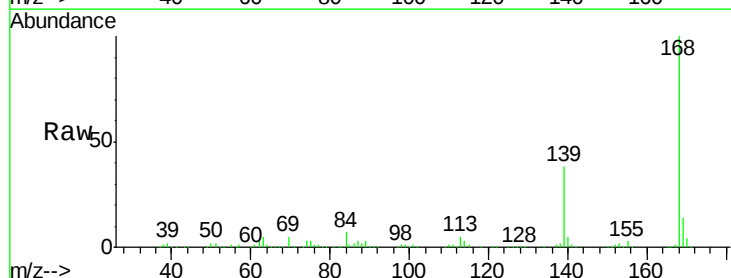
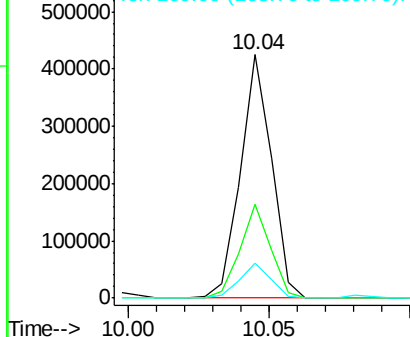
Delta R.T. -0.01 min

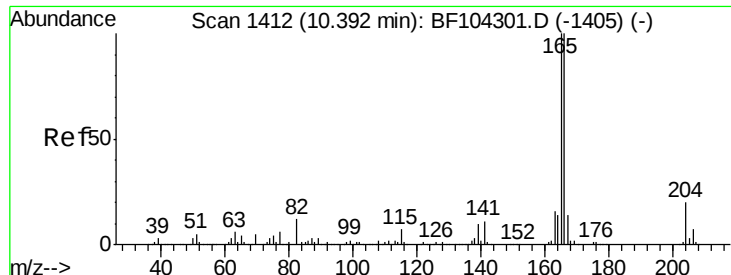
Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Tgt Ion:	168	Resp:	325154
Ion Ratio	Lower	Upper	
168	100		
139	38.4	30.1	45.1
169	14.1	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





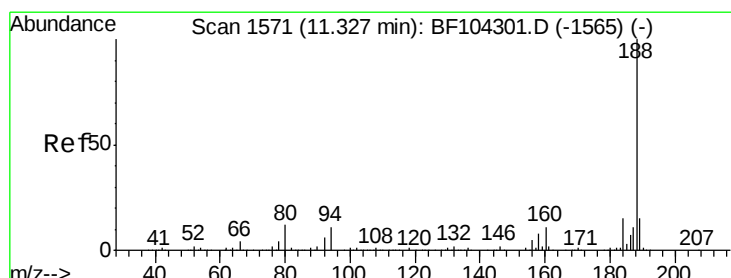
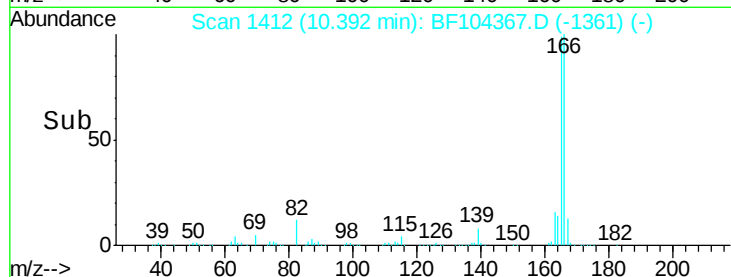
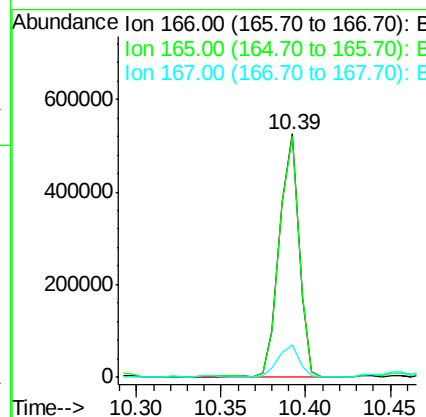
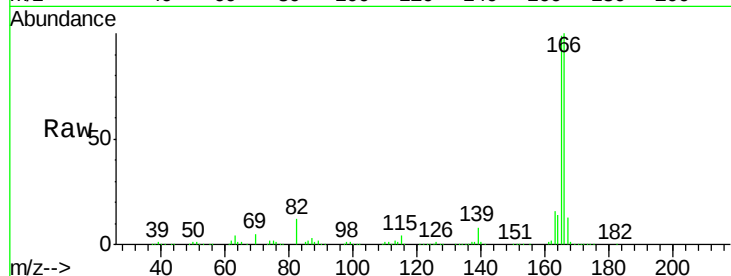
#57
Fluorene
 Concen: 26.231 ng
 RT: 10.39 min Scan# 1412
 Delta R.T. 0.00 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Instrument :
 BNA_F
 ClientSampleId :
 SB-3-1(1-3)

Tot Ion	Ratio	Resp	Lower	Upper
166	100	427991		
165	99.1	79.8	119.8	
167	13.4	10.6	16.0	

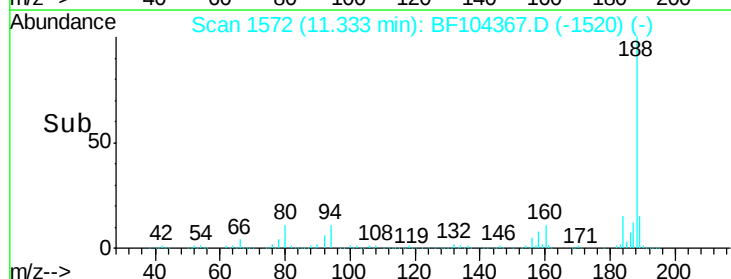
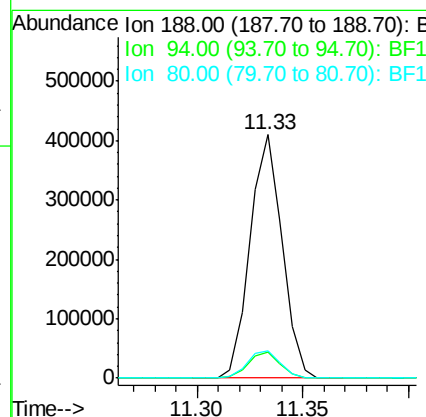
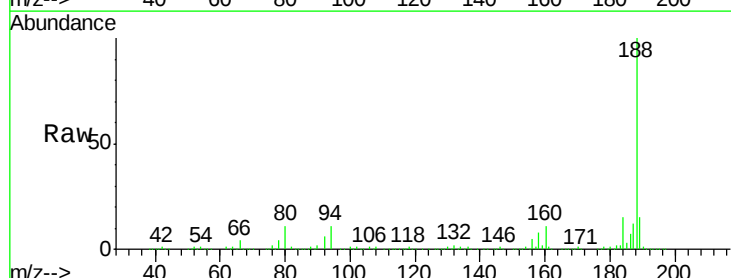
Manual Integrations
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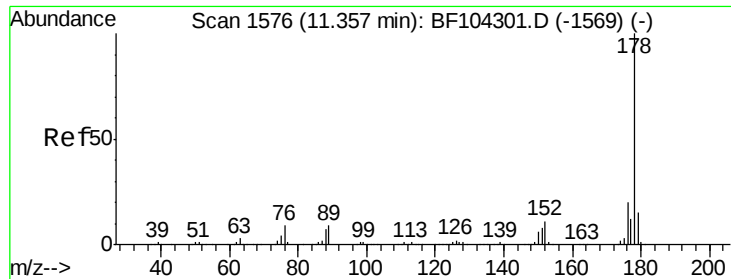
Sohil
 4/10/2018 12:00:13 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.33 min Scan# 1572
 Delta R.T. 0.01 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Resp	Lower	Upper
188	100	432461		
94	10.8	8.5	12.7	
80	11.1	9.2	13.8	





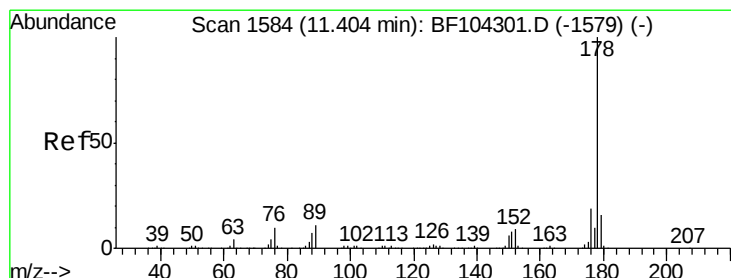
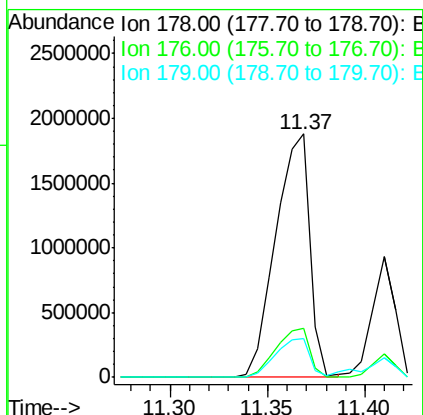
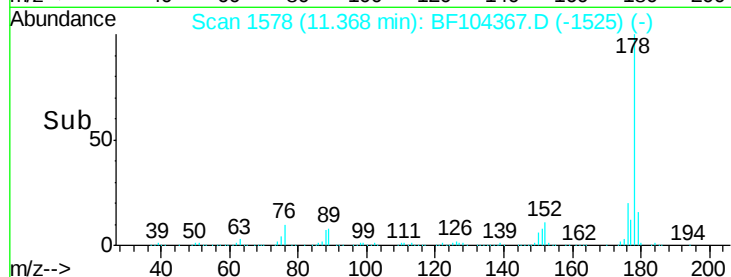
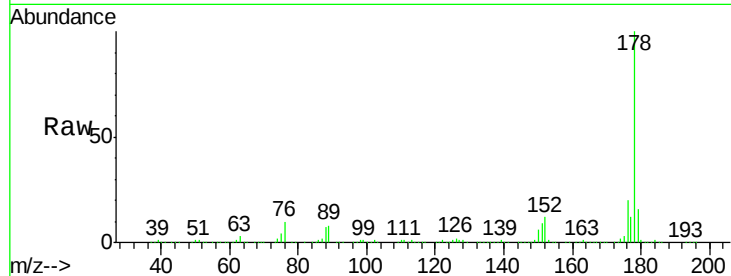
#70
Phenanthrene
Concen: 94.398 ng
RT: 11.37 min Scan# 1578
Delta R.T. 0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Instrument :
BNA_F
ClientSampled :
SB-3-1(1-3)

Tot Ion:178 Resp: 2273426
Ion Ratio Lower Upper
178 100
176 20.2 15.8 23.8
179 15.7 13.0 19.6

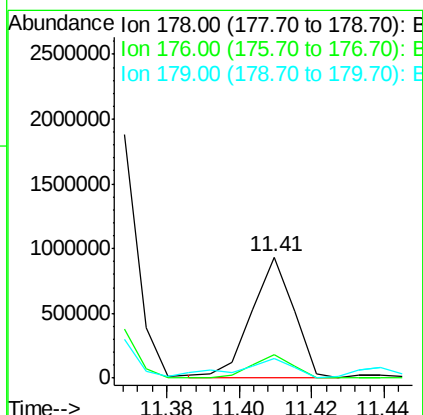
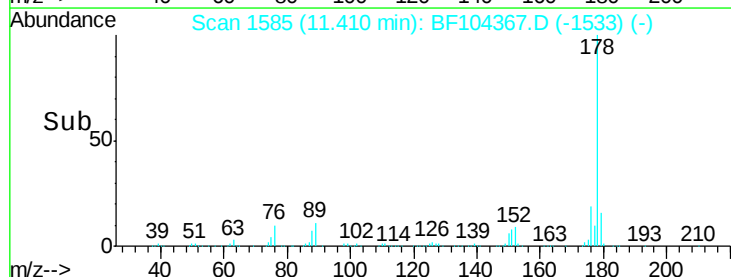
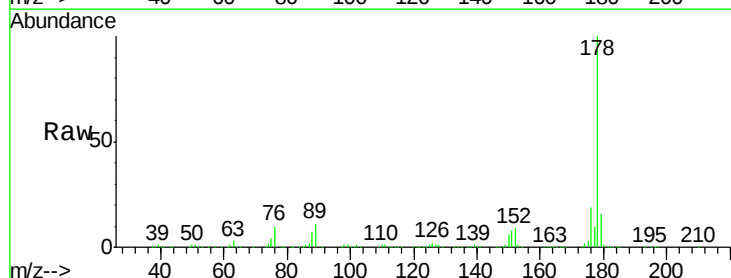
Manual Integrations
APPROVED

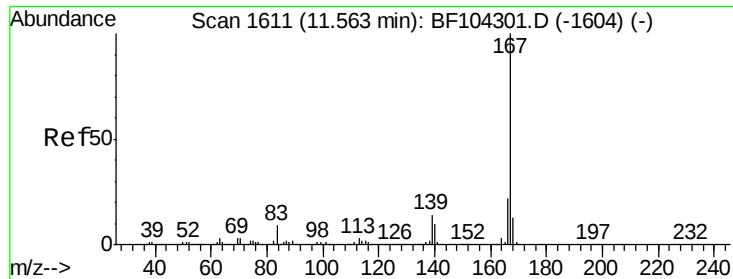
Sohil
4/10/2018 12:00:13 PM



#71
Anthracene
Concen: 30.685 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Tgt Ion:178 Resp: 751209
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.8 12.6 19.0





#72

Carbazole

Concen: 16.857 ng

RT: 11.56 min Scan# 1611

Delta R.T. -0.00 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Instrument :

BNA_F

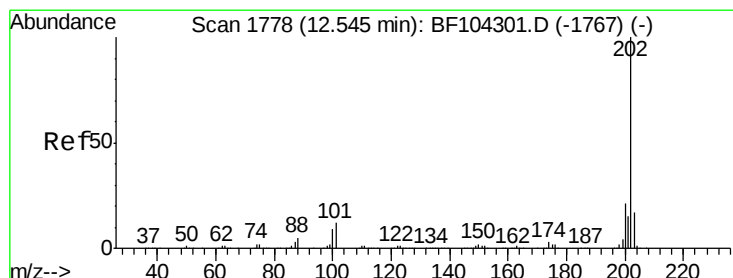
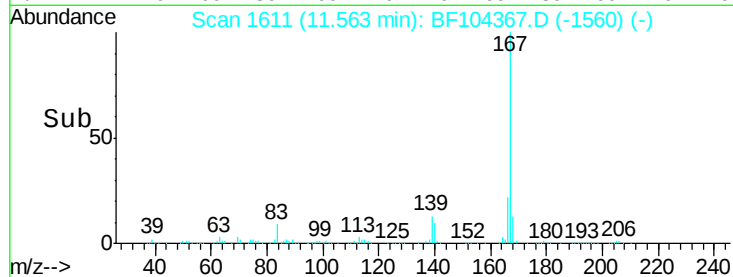
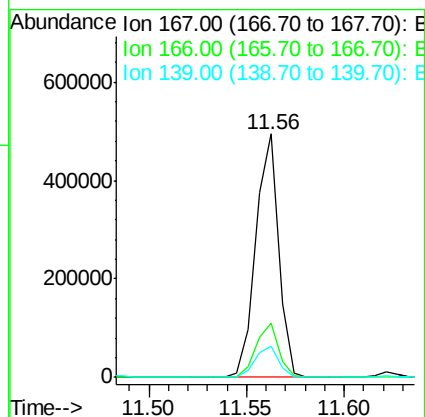
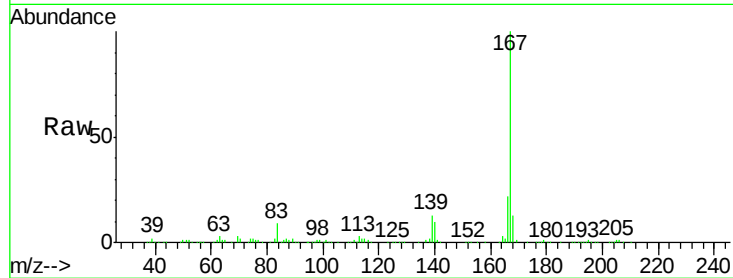
ClientSampleId :

SB-3-1(1-3)

Tot Ion:	167	Resp:	403262
Ion Ratio		Lower	Upper
167	100		
166	22.1	17.6	26.4
139	13.0	10.9	16.3

Manual Integrations
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Sohil
4/10/2018 12:00:13 PM



#74

Fluoranthene

Concen: 81.130 ng

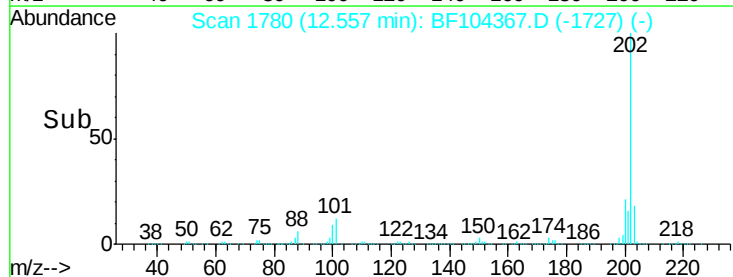
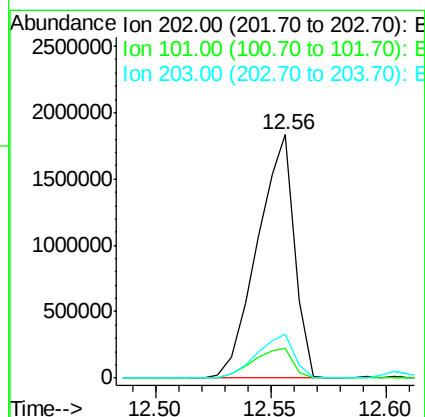
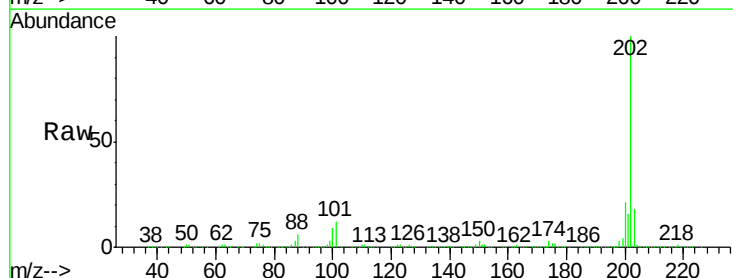
RT: 12.56 min Scan# 1780

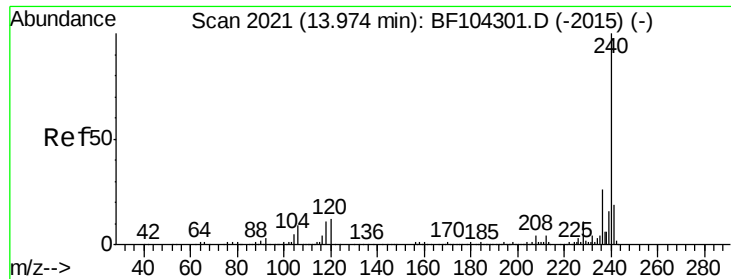
Delta R.T. 0.01 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Tgt Ion:	202	Resp:	2041452
Ion Ratio		Lower	Upper
202	100		
101	12.5	0.0	34.1
203	17.8	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.97 min Scan# 2021

Delta R.T. -0.00 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Instrument :

BNA_F

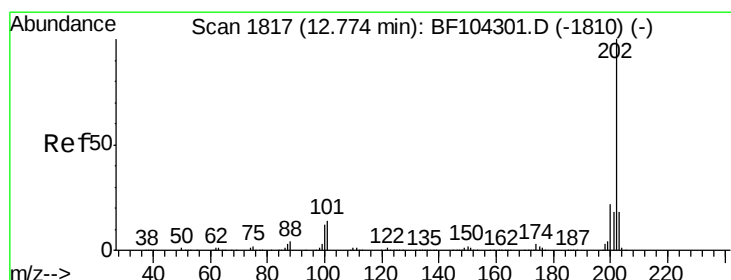
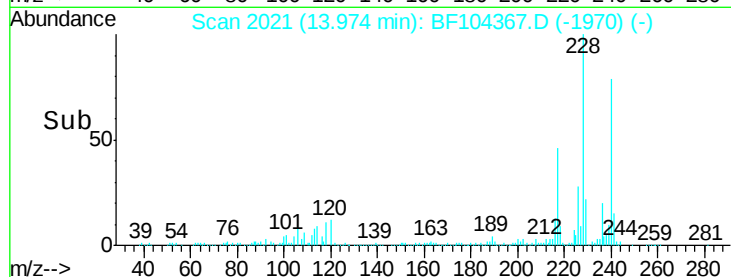
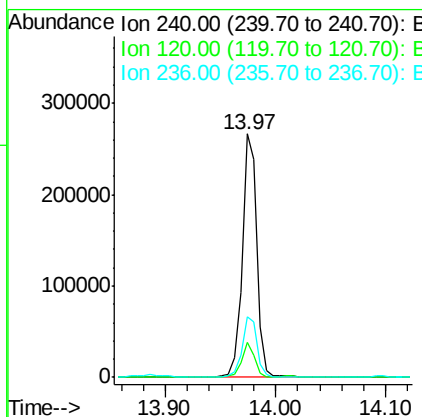
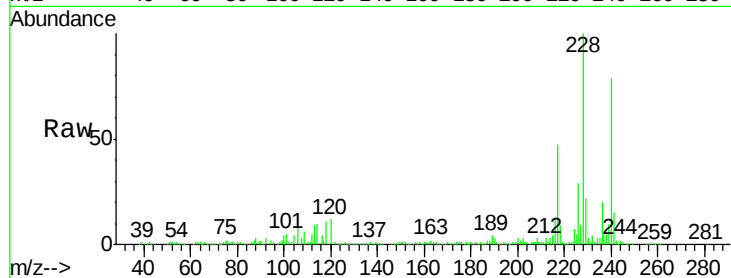
ClientSampled :

SB-3-1(1-3)

Tot Ion	Ratio	Lower	Upper
240	100		
120	14.6	9.5	14.3
236	24.9	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 91.337 ng

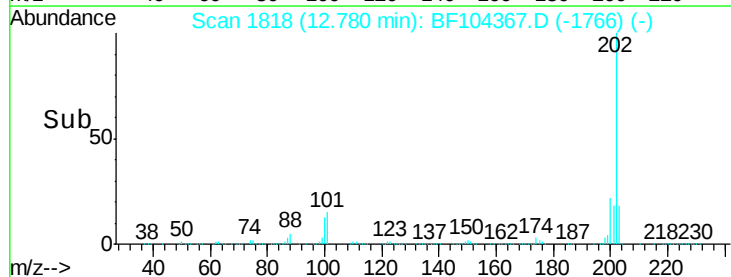
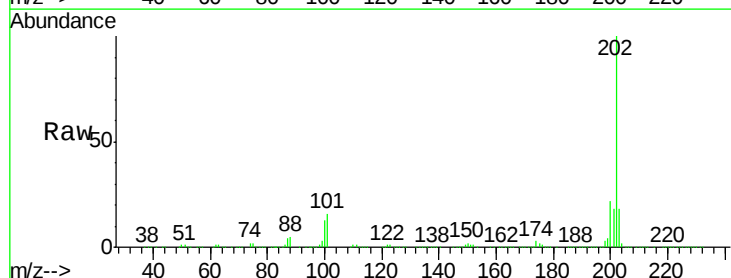
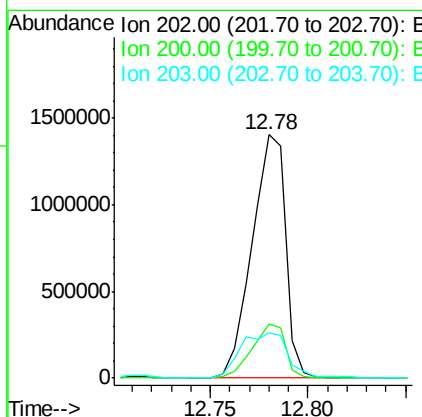
RT: 12.78 min Scan# 1818

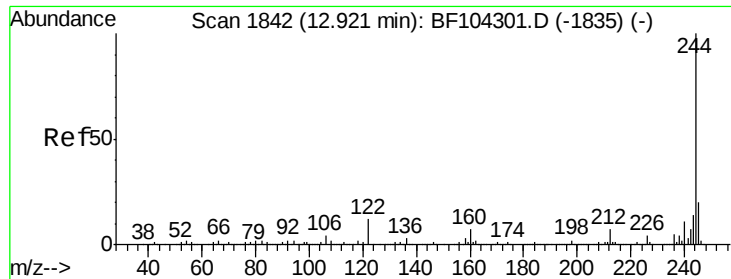
Delta R.T. 0.01 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Lower	Upper
202	100		
200	22.3	17.4	26.2
203	18.5	14.3	21.5





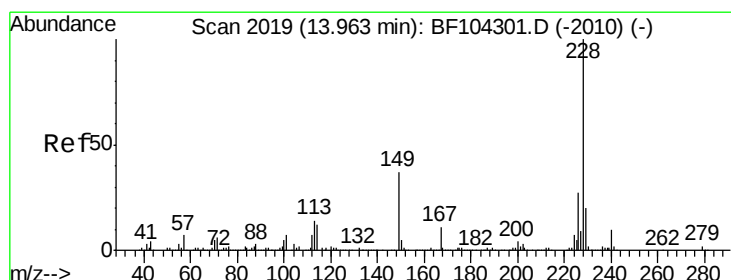
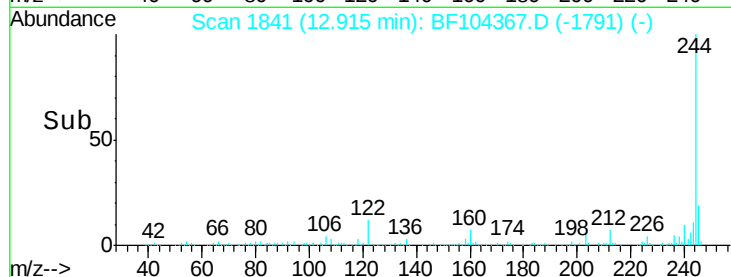
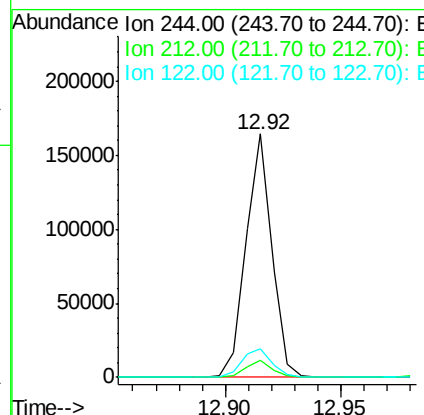
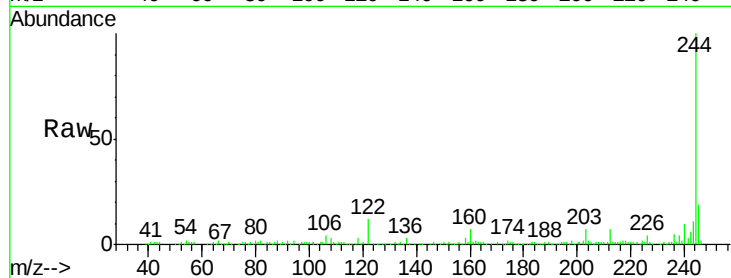
#78
 Terphenyl-d14
 Concen: 11.877 ng
 RT: 12.92 min Scan# 1841
 Delta R.T. -0.01 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Instrument :
 BNA_F
 ClientSampled :
 SB-3-1(1-3)

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	12.0	11.0	16.4

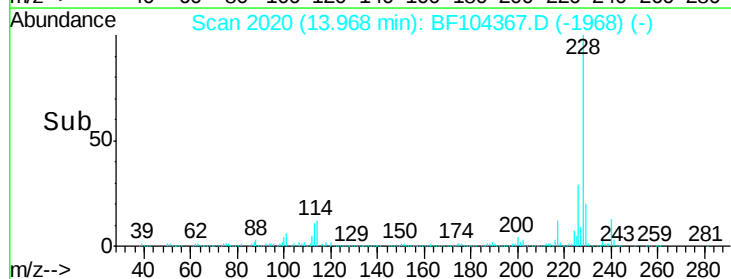
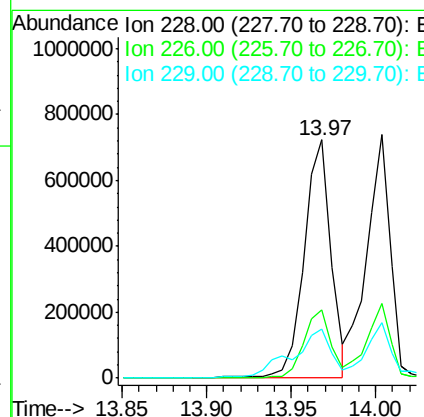
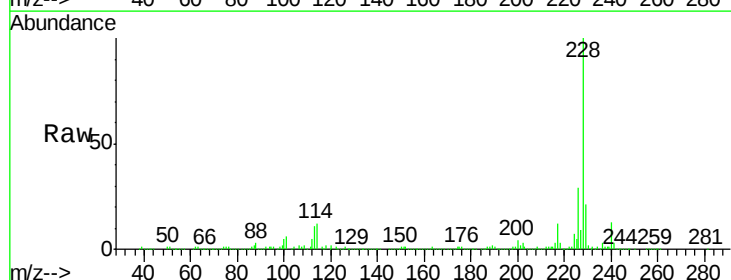
Manual Integrations
 APPROVED

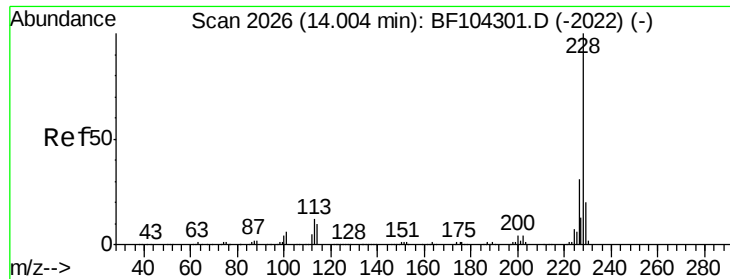
Sohil
 4/10/2018 12:00:13 PM



#80
 Benzo(a)anthracene
 Concen: 53.601 ng
 RT: 13.97 min Scan# 2020
 Delta R.T. 0.01 min
 Lab File: BF104367.D
 Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	33.8
229	20.6	15.8	23.6





#82

Chrysene

Concen: 47.106 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.00 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Instrument :

BNA_F

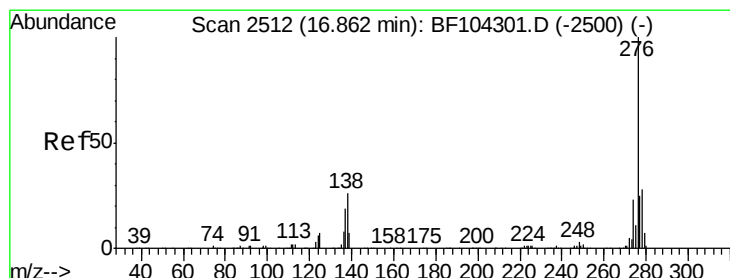
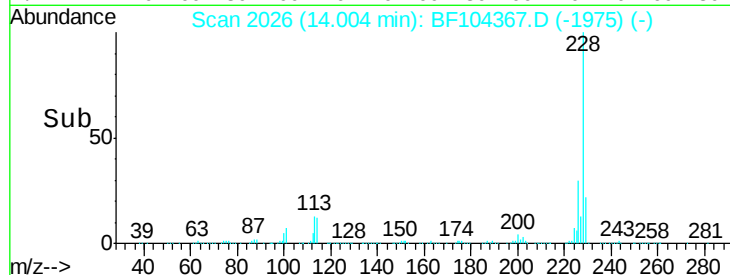
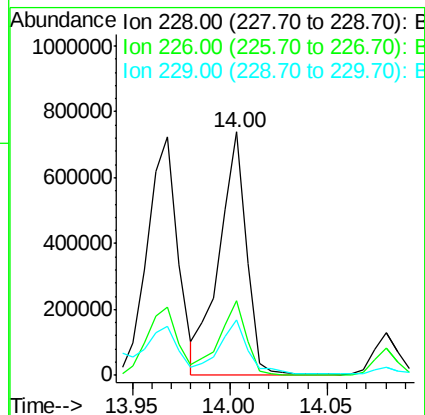
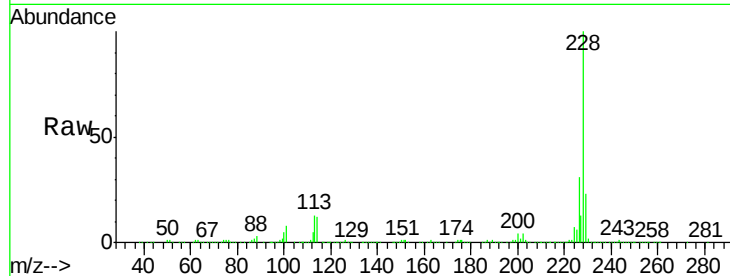
ClientSampled :

SB-3-1(1-3)

Tot Ion:	228	Resp:	714855
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.0	37.6
229	22.8	16.2	24.4

Manual Integrations
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Sohil
4/10/2018 12:00:13 PM



#85

Indeno(1,2,3-cd)pyrene

Concen: 36.671 ng m

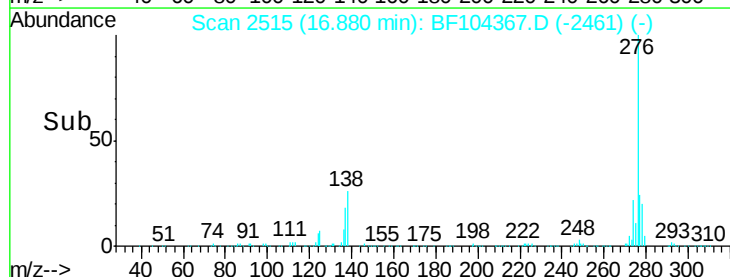
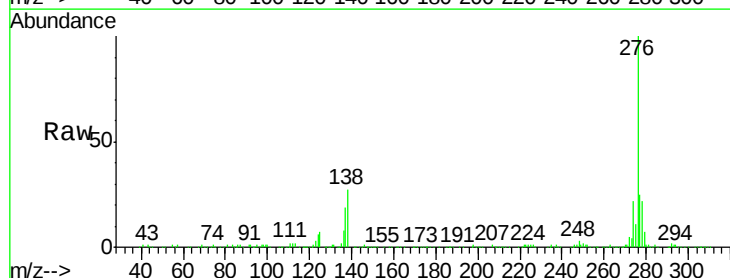
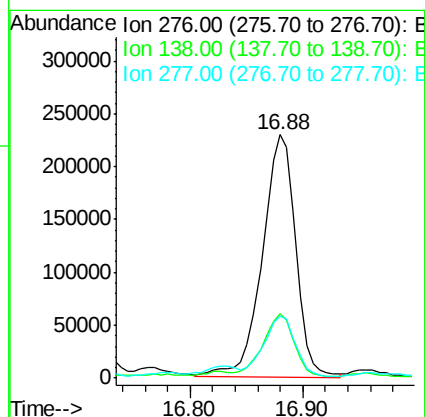
RT: 16.88 min Scan# 2515

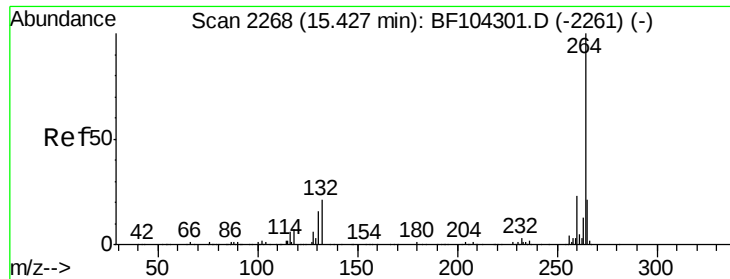
Delta R.T. 0.02 min

Lab File: BF104367.D

Acq: 9 Apr 2018 13:05

Tgt Ion:	276	Resp:	472731
Ion Ratio	Lower	Upper	
276	100		
138	5.1	25.0	37.6#
277	4.6	20.1	30.1#





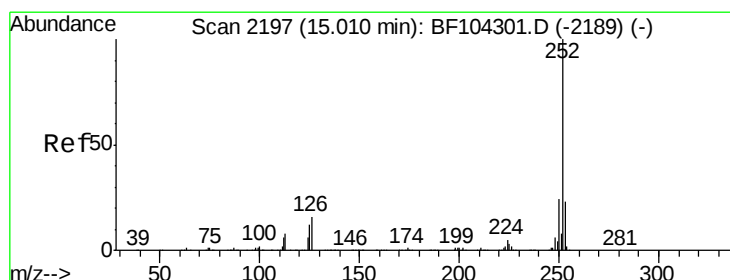
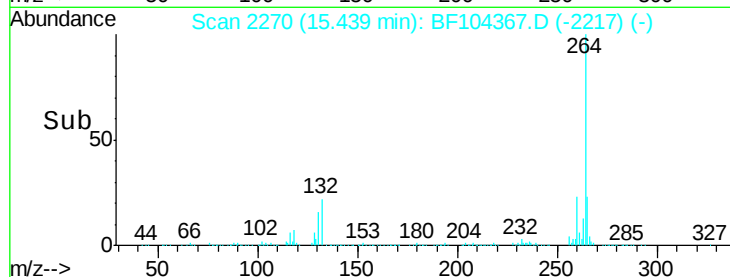
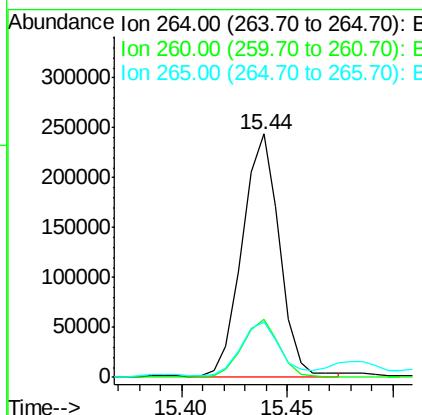
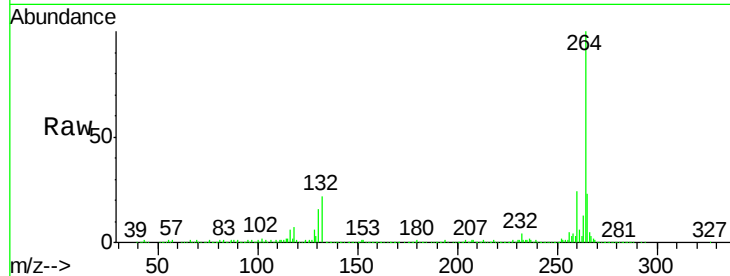
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.44 min Scan# 2270
Delta R.T. 0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	23.0	17.5	26.3

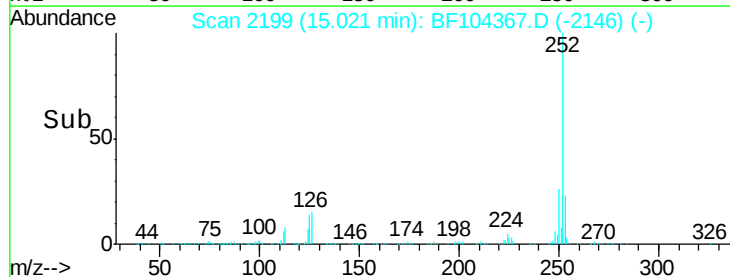
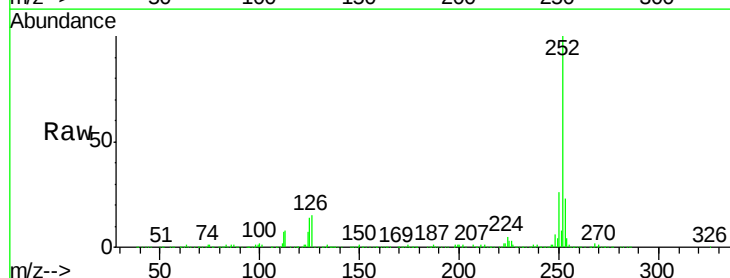
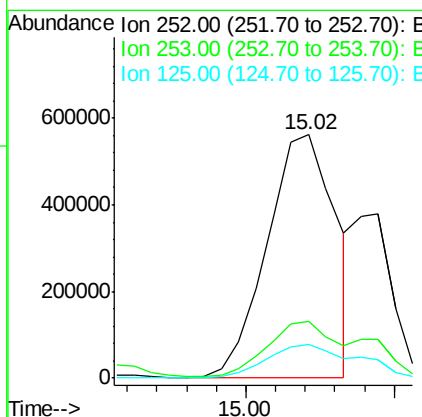
Manual Integrations
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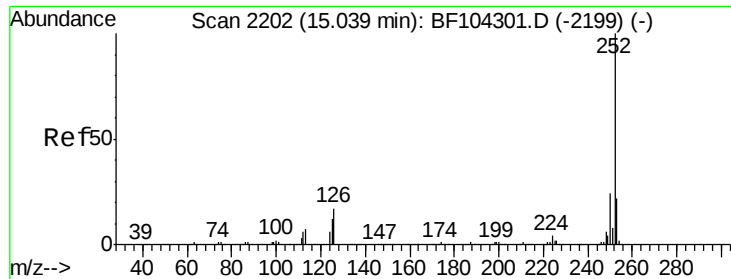
Sohil
4/10/2018 12:00:13 PM



#87
Benzo(b)fluoranthene
Concen: 48.363 ng m
RT: 15.02 min Scan# 2199
Delta R.T. 0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	13.7	9.0	13.6#





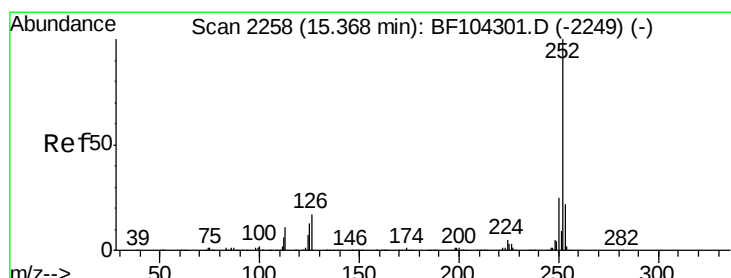
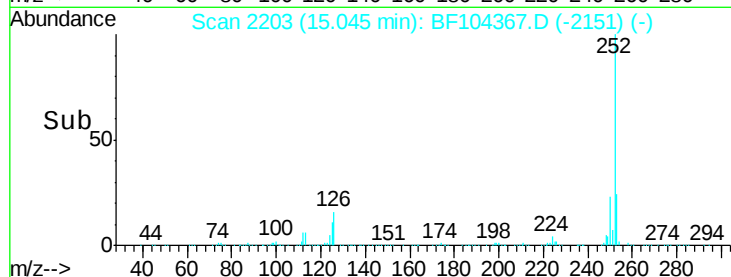
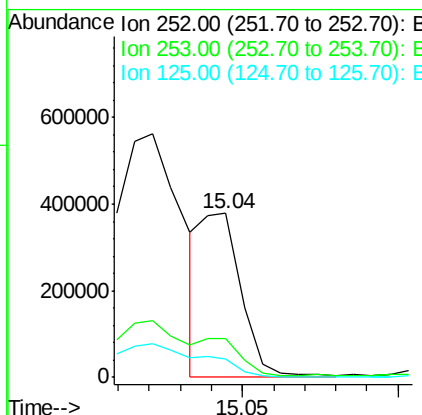
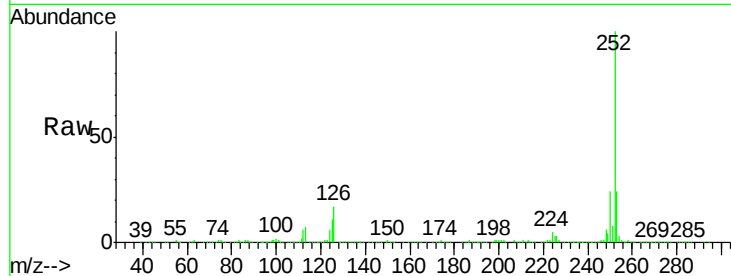
#88
Benzo(k)fluoranthene
Concen: 19.130 ng
RT: 15.04 min Scan# 2203
Delta R.T. 0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.8	17.9	26.9
125	11.2	10.2	15.2

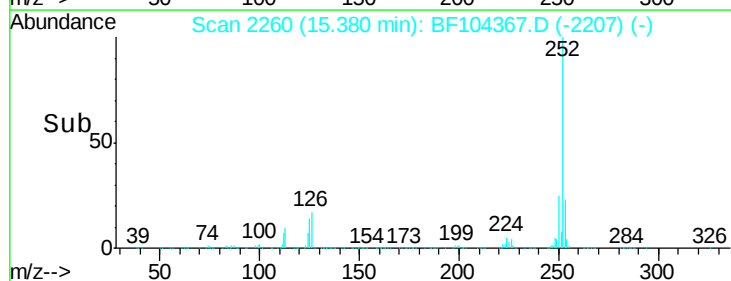
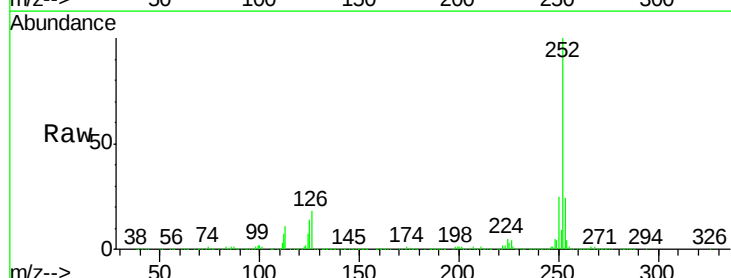
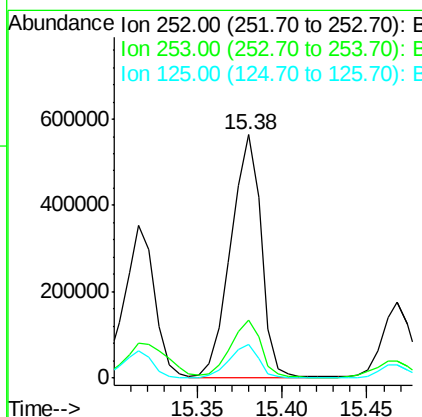
Manual Integrations
APPROVED

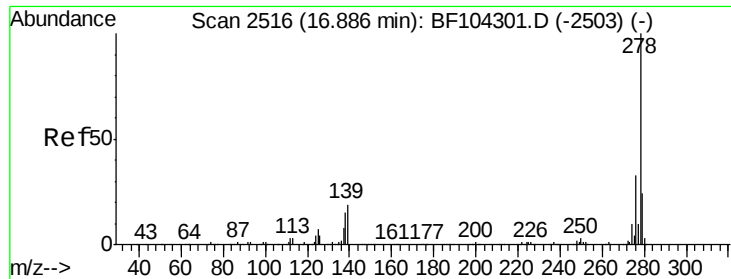
Sohil
4/10/2018 12:00:13 PM



#89
Benzo(a)pyrene
Concen: 41.905 ng
RT: 15.38 min Scan# 2260
Delta R.T. 0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.1	25.7
125	13.9	9.8	14.6





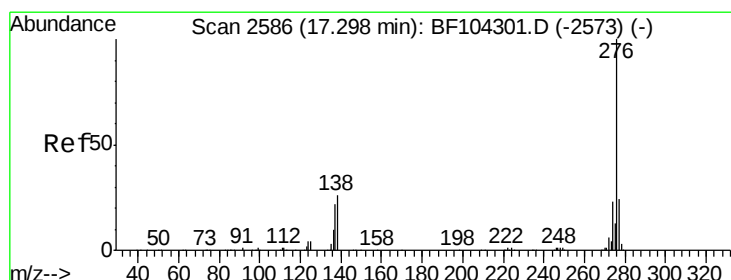
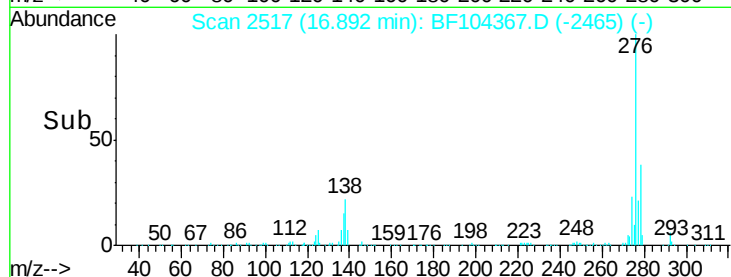
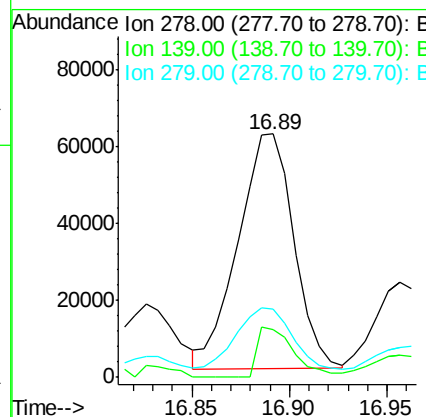
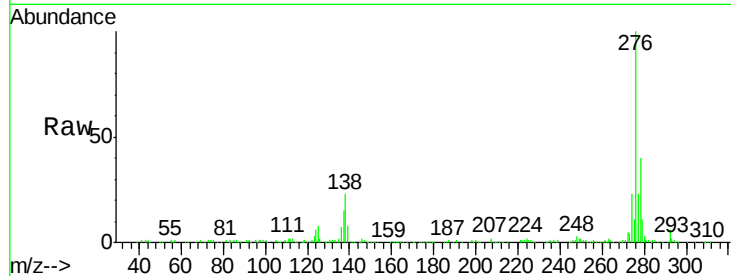
#90
Dibenzo(a,h)anthracene
Concen: 8.765 ng
RT: 16.89 min Scan# 2517
Delta R.T. 0.01 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Instrument :
BNA_F
ClientSampleId :
SB-3-1(1-3)

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.7	15.9	23.9
279	27.9	19.0	28.4

Manual Integrations
APPROVED

Sohil
4/10/2018 12:00:13 PM



#91
Benzo(g,h,i)perylene
Concen: 30.140 ng
RT: 17.32 min Scan# 2589
Delta R.T. 0.02 min
Lab File: BF104367.D
Acq: 9 Apr 2018 13:05

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	17.9	26.9
138	26.7	21.8	32.8

