

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF040218\
 Data File : BF104172.D
 Acq On : 3 Apr 2018 10:06
 Operator : JU/SJ
 Sample : J2176-01 10X
 Misc :
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB30_N_8

Manual Integrations
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Quant Time: Apr 03 12:42:47 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 02 13:40:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	79376	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	336166	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	137681	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	201652	20.00	ng	0.00
75) Chrysene-d12	14.16	240	166916	20.00	ng	0.01
86) Perylene-d12	15.70	264	132535	20.00	ng	0.01

System Monitoring Compounds						
5) 2-Fluorophenol	5.62	112	1322	0.27	ng	0.03
7) Phenol-d6	6.64	99	27041m	4.42	ng	0.04
23) Nitrobenzene-d5	7.56	82	7818	1.42	ng	0.03
41) 2,4,6-Tribromophenol	10.80	330	4600	3.00	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	34228	3.92	ng	0.00
78) Terphenyl-d14	13.08	244	31361	4.34	ng	0.00

Target Compounds					Qvalue	
31) Naphthalene	8.26	128	336759	20.505	ng	99
37) 2-Methylnaphthalene	8.96	142	78420	7.249	ng	97
45) 1,1'-Biphenyl	9.42	154	24594	2.081	ng	98
48) Acenaphthylene	9.86	152	497457	35.227	ng	99
51) Acenaphthene	10.03	154	39822	4.875	ng	95
54) Dibenzofuran	10.21	168	79271	6.645	ng	97
57) Fluorene	10.55	166	137334	13.956	ng	95
70) Phenanthrene	11.53	178	871644	79.838	ng	99
71) Anthracene	11.57	178	456816	40.058	ng	99
72) Carbazole	11.74	167	48208	4.429	ng	# 93
74) Fluoranthene	12.73	202	1475067	127.107	ng	98
77) Pyrene	12.96	202	1473410	122.796	ng	99
80) Benzo(a)anthracene	14.15	228	882557m	84.502	ng	
82) Chrysene	14.19	228	725739	70.945	ng	97
85) Indeno(1,2,3-cd)pyrene	17.30	276	336159m	31.712	ng	
87) Benzo(b)fluoranthene	15.25	252	824986m	102.280	ng	
88) Benzo(k)fluoranthene	15.27	252	284890m	37.495	ng	
89) Benzo(a)pyrene	15.64	252	604024	80.809	ng	97
90) Dibenzo(a,h)anthracene	17.31	278	77338	11.191	ng	# 74
91) Benzo(a,h,i)perylene	17.79	276	322236	46.552	ng	94

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

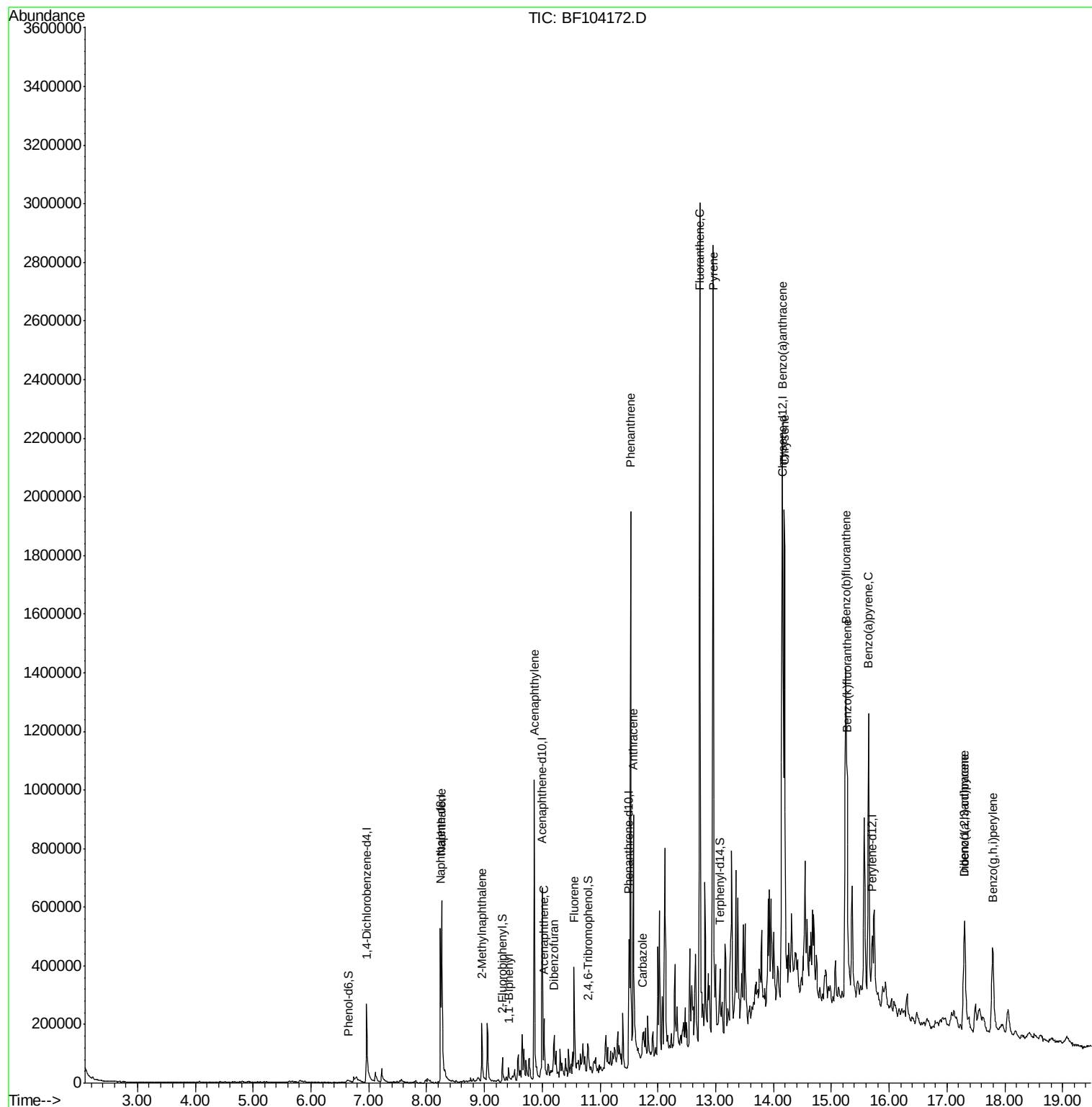
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF040218\
Data File : BF104172.D
Acq On : 3 Apr 2018 10:06
Operator : JU/SJ
Sample : J2176-01 10X
Misc :
ALS Vial : 47 Sample Multiplier: 1

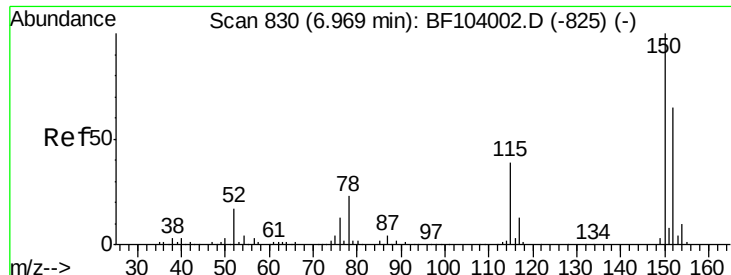
Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

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Quant Time: Apr 03 12:42:47 2018
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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Response via : Initial Calibration





#1

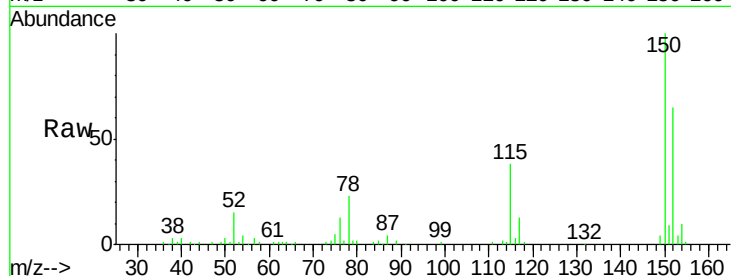
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.96 min Scan# 829
Delta R.T. -0.00 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

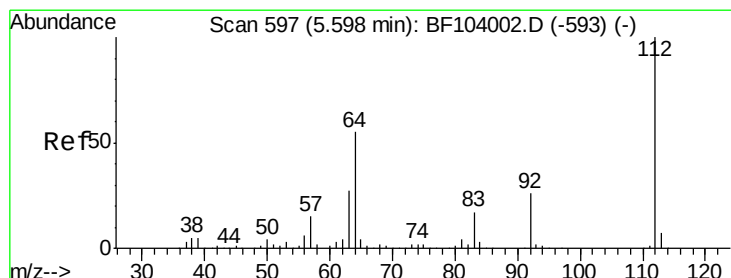
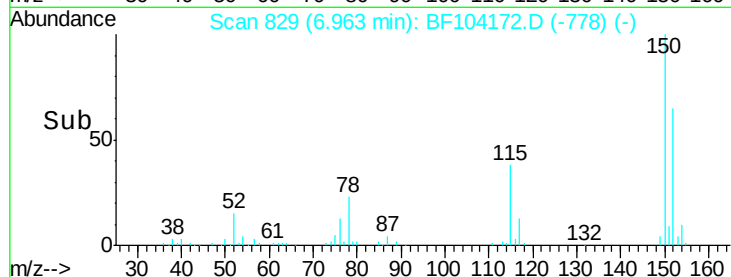
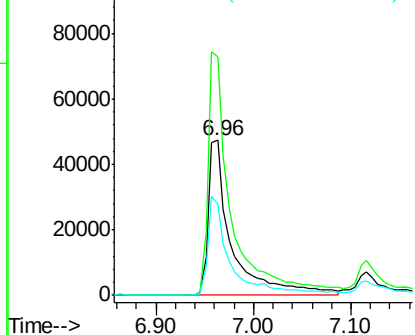
Tot Ion	Ratio	Lower	Upper
152	100		
150	153.8	124.6	186.8
115	59.1	50.1	75.1

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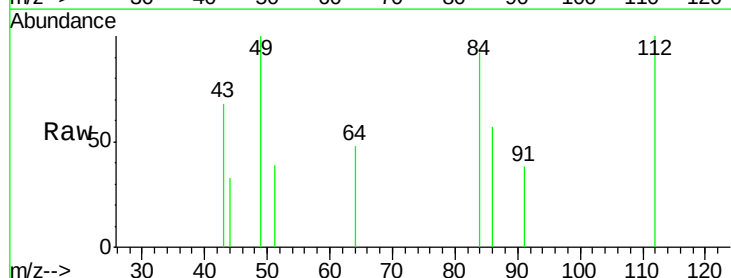
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



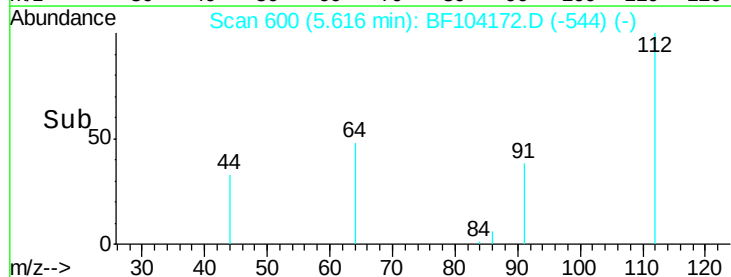
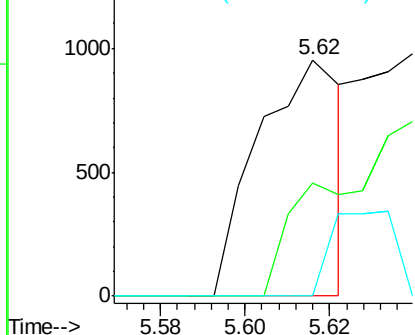
#5

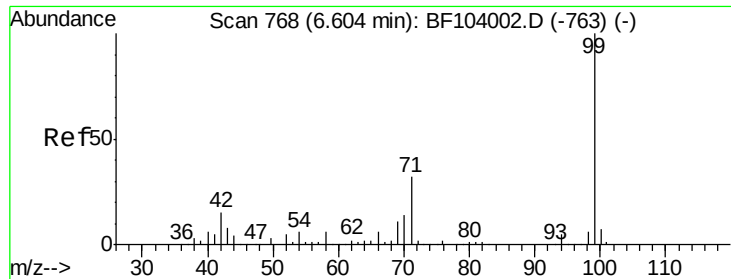
2-Fluorophenol
Concen: 0.266 ng
RT: 5.62 min Scan# 600
Delta R.T. 0.03 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
112	100		
64	48.1	47.9	71.9
63	0.0	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

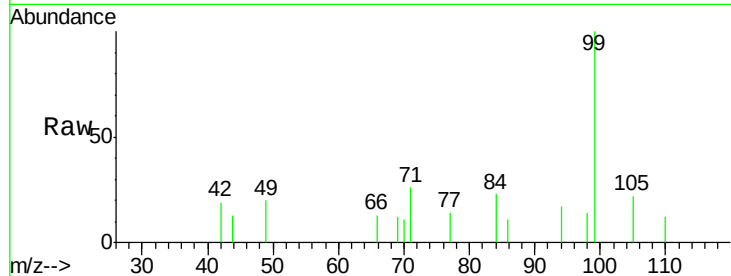
Concen: 4.416 ng/mL
 RT: 6.64 min Scan# 774
 Delta R.T. 0.04 min
 Lab File: BF104172.D
 Acq: 3 Apr 2018 10:06

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB30_N_8

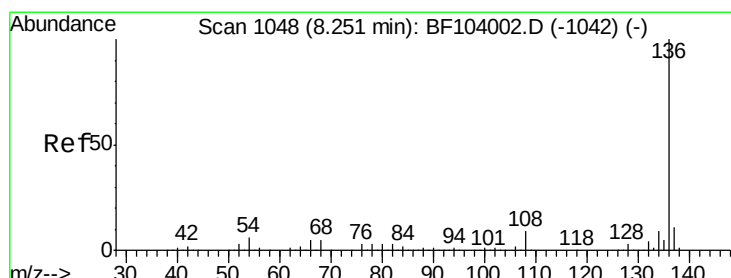
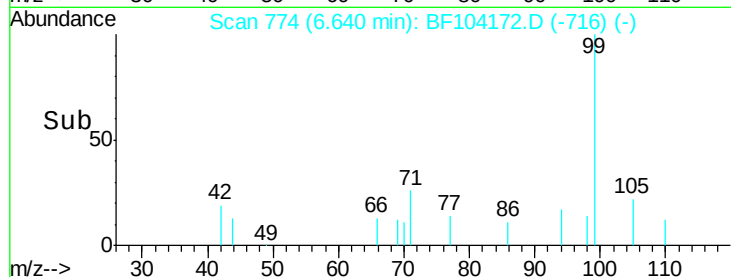
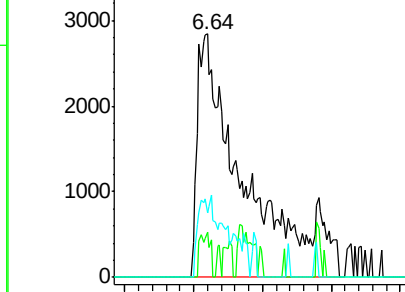
Tot Ion	Ion	Ratio	Lower	Upper
99	100			
42	18.7	14.5	21.7	
71	26.4	25.4	38.0	

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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



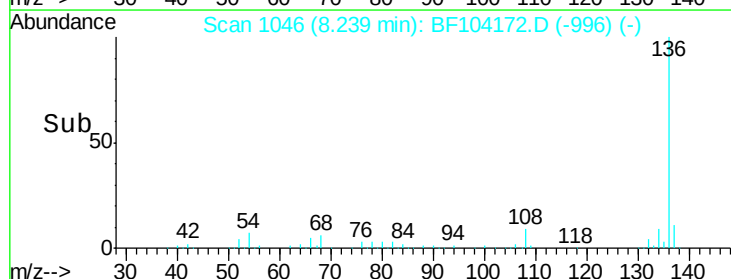
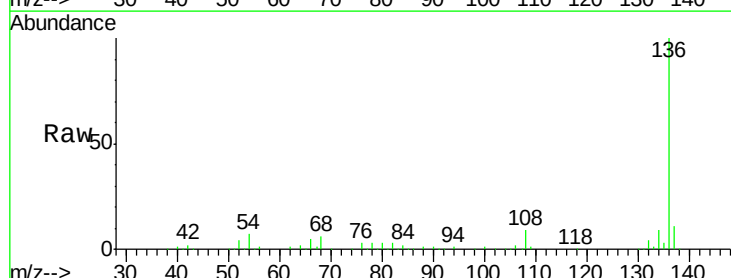
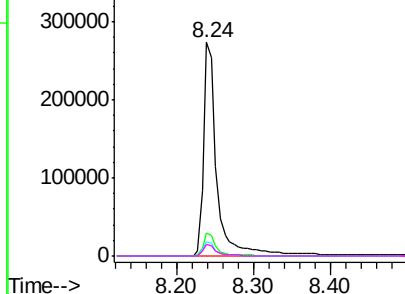
#21

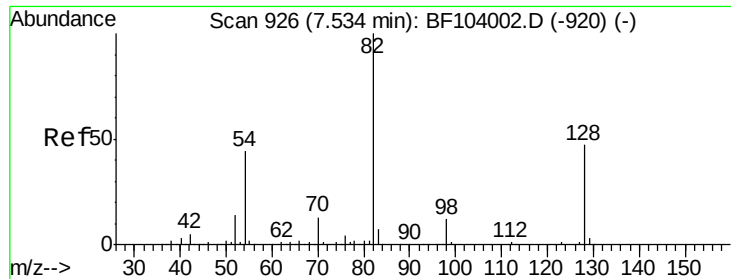
Naphthalene-d8

Concen: 20.000 ng
 RT: 8.24 min Scan# 1046
 Delta R.T. -0.01 min
 Lab File: BF104172.D
 Acq: 3 Apr 2018 10:06

Tgt Ion	Ion	Ratio	Lower	Upper
136	100			
137	11.0	8.9	13.3	
54	6.7	6.6	9.8	
68	5.7	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





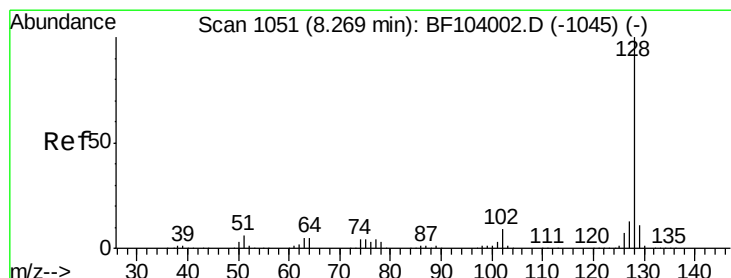
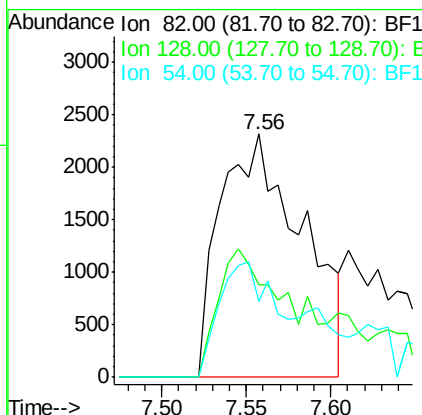
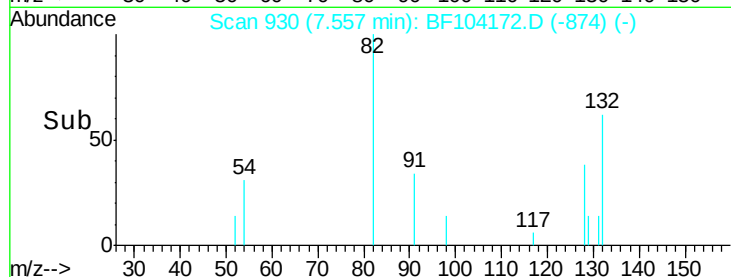
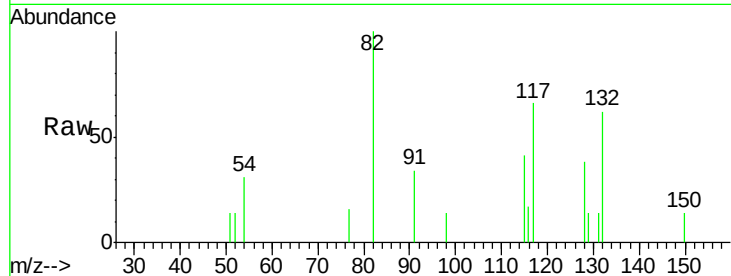
#23
 Nitrobenzene-d5
 Concen: 1.422 ng
 RT: 7.56 min Scan# 930
 Delta R.T. 0.03 min
 Lab File: BF104172.D
 Acq: 3 Apr 2018 10:06

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB30_N_8

Tot Ion	Ratio	Lower	Upper
82	100		
128	37.9	36.1	54.1
54	31.3	41.4	62.2#

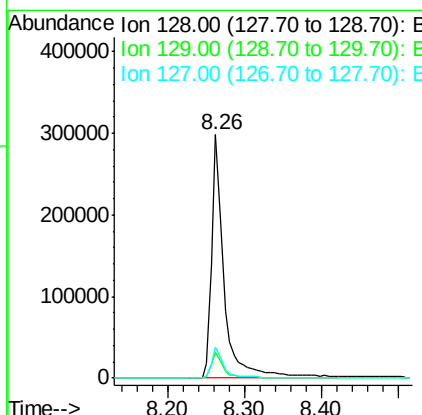
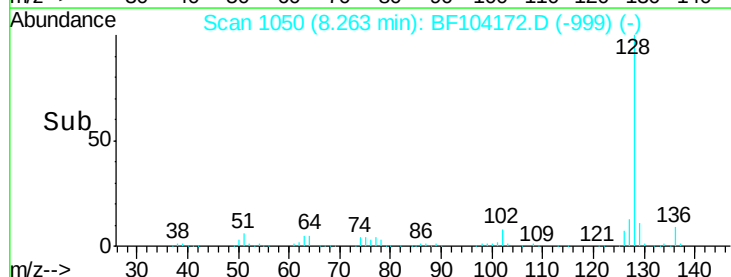
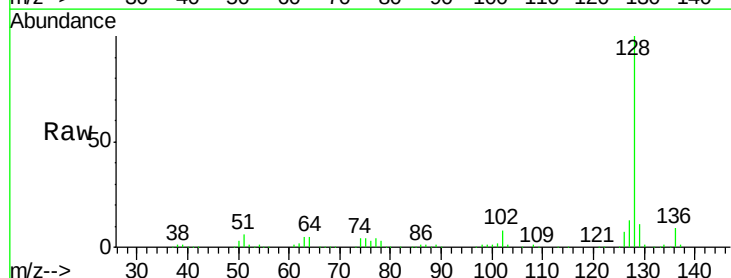
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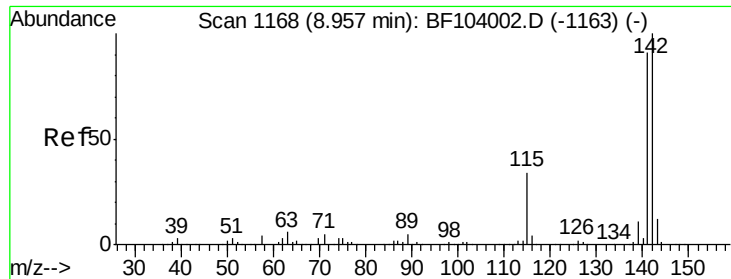
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#31
 Naphthalene
 Concen: 20.505 ng
 RT: 8.26 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: BF104172.D
 Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	12.8	10.9	16.3





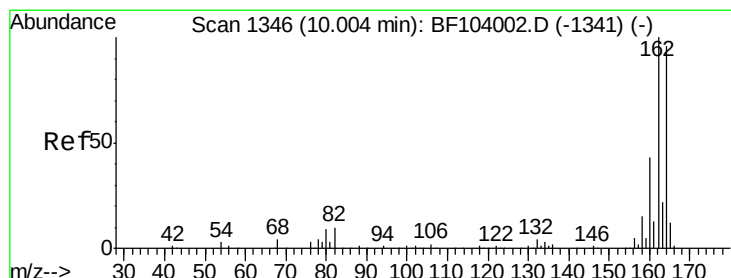
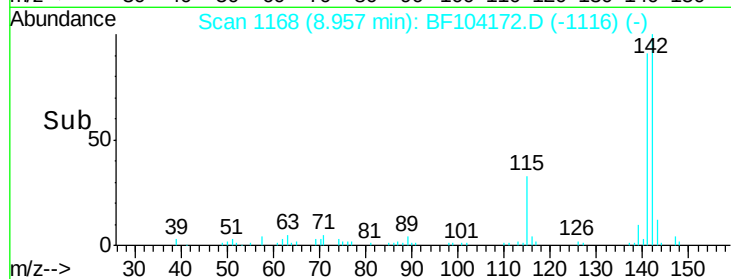
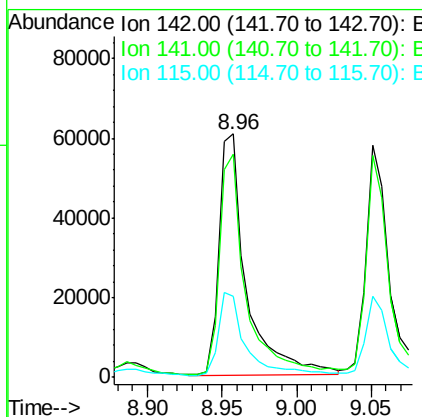
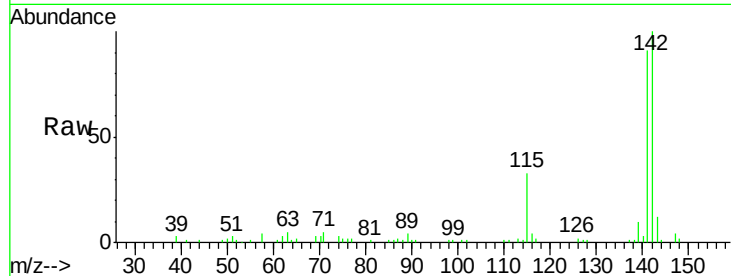
#37
2-Methylnaphthalene
Concen: 7.249 ng
RT: 8.96 min Scan# 1168
Delta R.T. 0.01 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.4	70.8	106.2
115	33.5	26.1	39.1

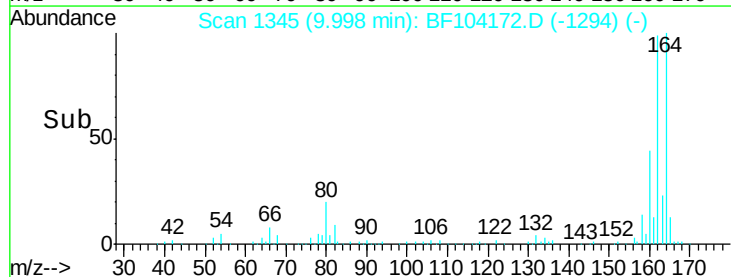
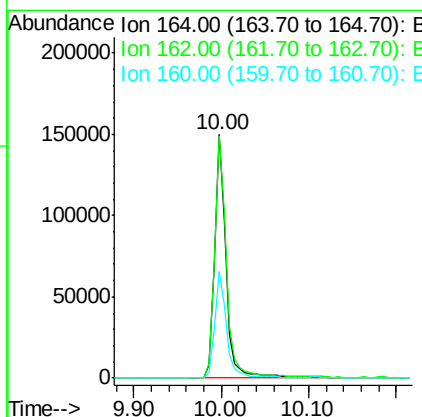
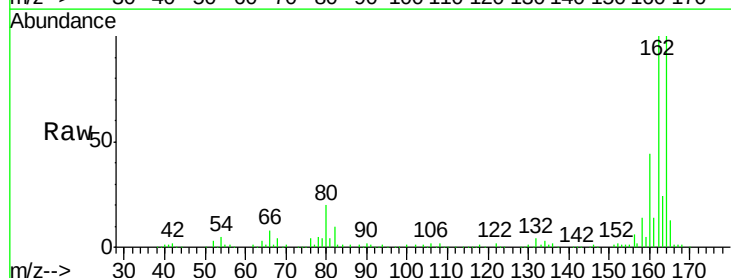
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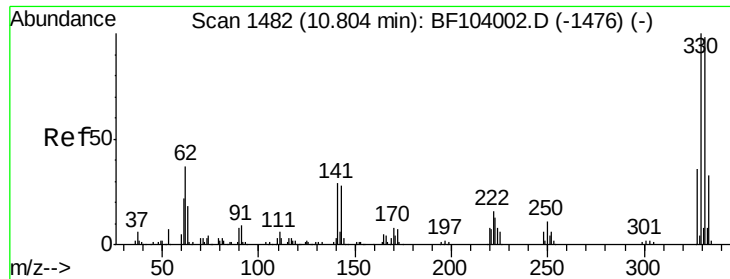
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1345
Delta R.T. -0.00 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
164	100		
162	99.8	86.1	129.1
160	43.6	38.3	57.5





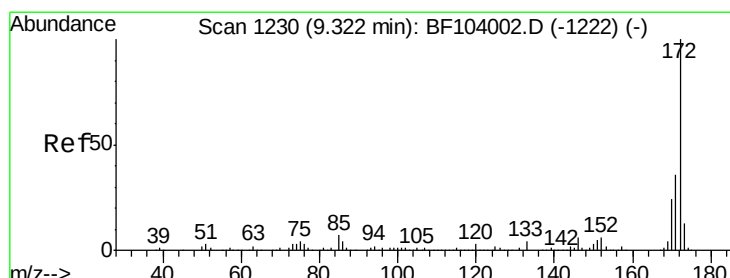
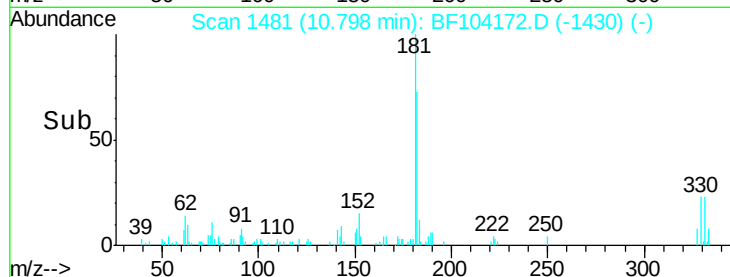
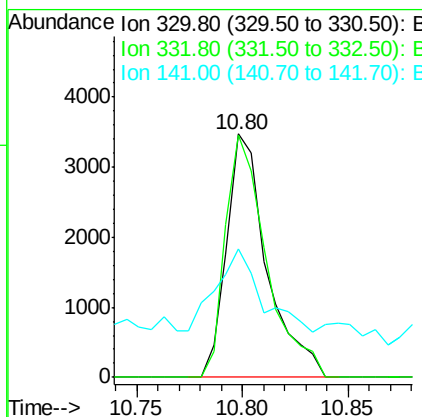
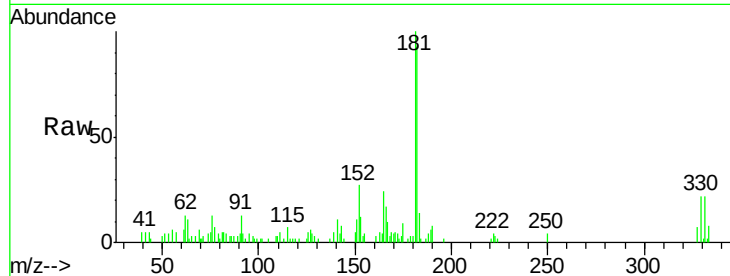
#41
 2,4,6-Tribromophenol
 Concen: 3.000 ng
 RT: 10.80 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: BF104172.D
 Acq: 3 Apr 2018 10:06

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB30_N_8

Tot Ion	Ratio	Lower	Upper
330	100		
332	101.5	77.0	115.6
141	39.9	29.9	44.9

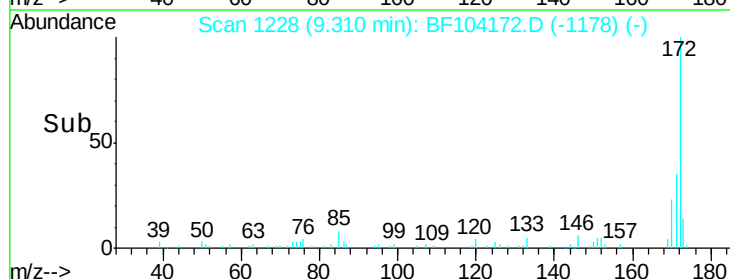
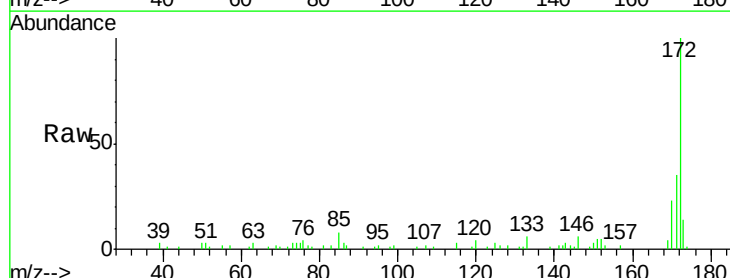
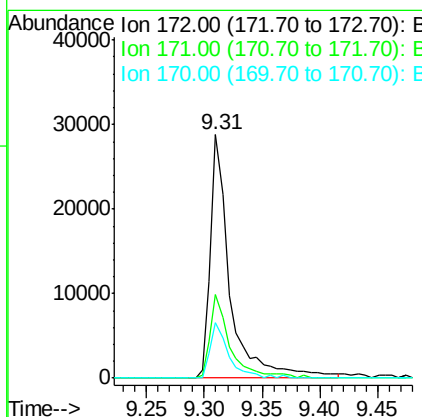
Manual Integrations
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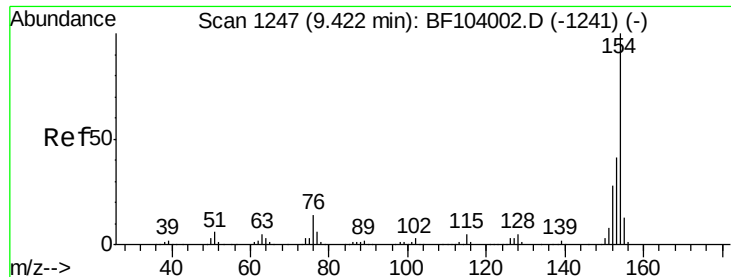
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#44
 2-Fluorobiphenyl
 Concen: 3.920 ng
 RT: 9.31 min Scan# 1228
 Delta R.T. -0.01 min
 Lab File: BF104172.D
 Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	29.7	44.5
170	22.6	19.6	29.4





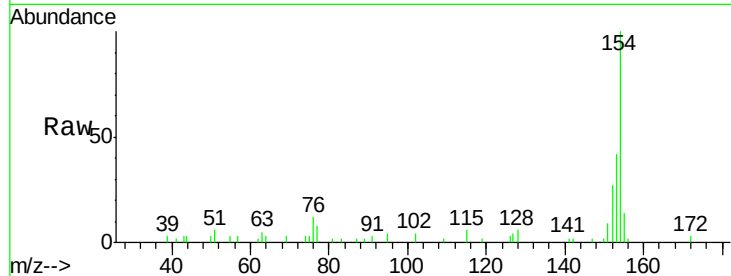
#45
1,1'-Biphenyl
Concen: 2.081 ng
RT: 9.42 min Scan# 1246
Delta R.T. -0.00 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

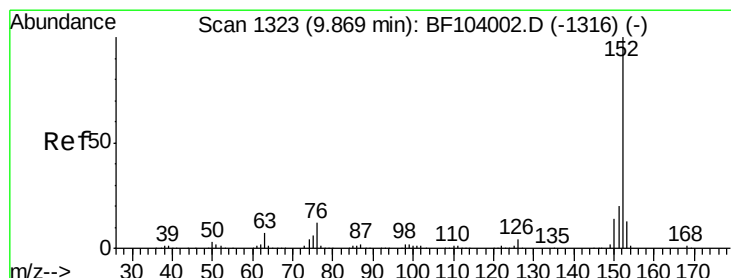
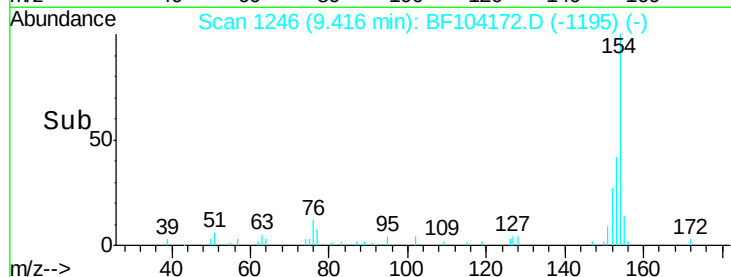
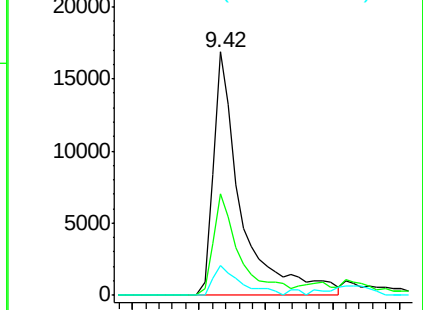
Tot Ion:	154	Resp:	24594
Ion Ratio	Lower	Upper	
154	100		
153	41.6	21.3	61.3
76	12.0	0.0	34.0

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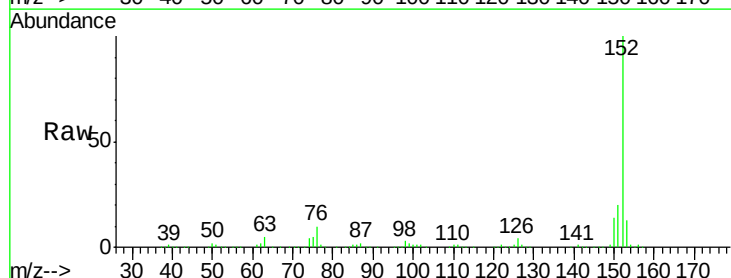


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF1

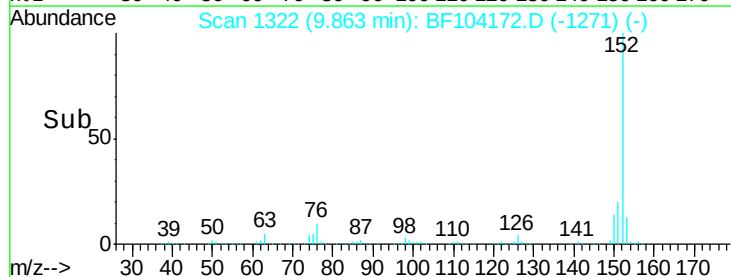
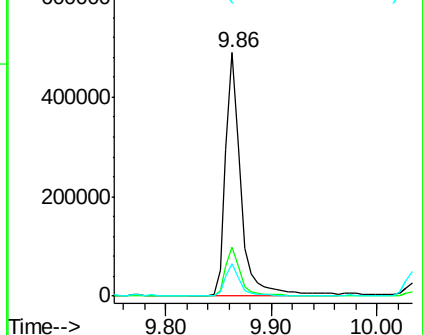


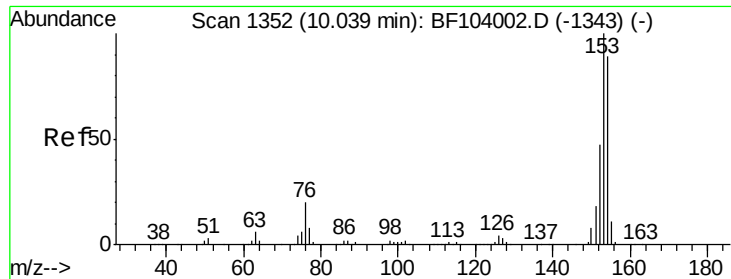
#48
Acenaphthylene
Concen: 35.227 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.00 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Tgt Ion:	152	Resp:	497457
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.3	24.5
153	13.3	10.7	16.1



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 4.875 ng

RT: 10.03 min Scan# 1351

Delta R.T. -0.00 min

Lab File: BF104172.D

Acq: 3 Apr 2018 10:06

Instrument :

BNA_F

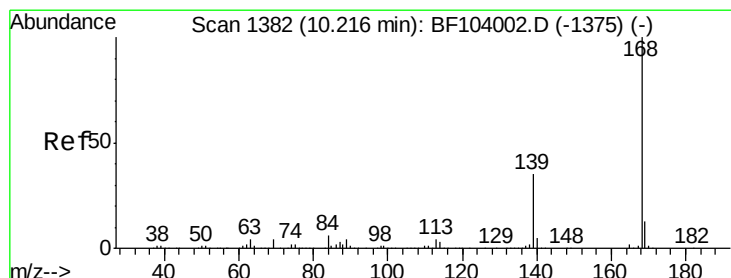
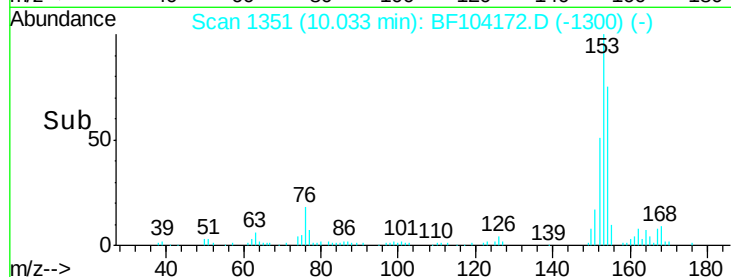
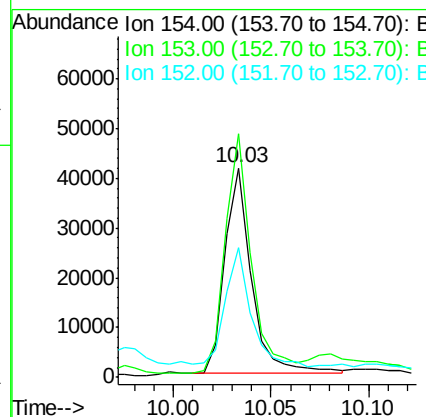
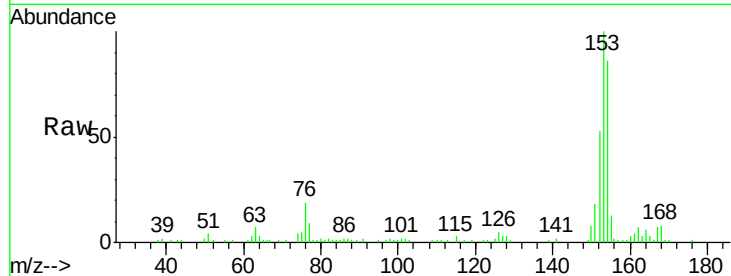
ClientSampleId :

A2_SB30_N_8

Tot Ion:	154	Resp:	39822
Ion Ratio	Lower	Upper	
154	100		
153	116.4	91.2	136.8
152	62.0	43.8	65.8

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#54

Dibenzofuran

Concen: 6.645 ng

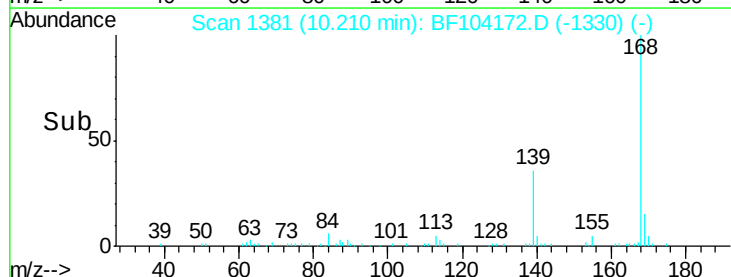
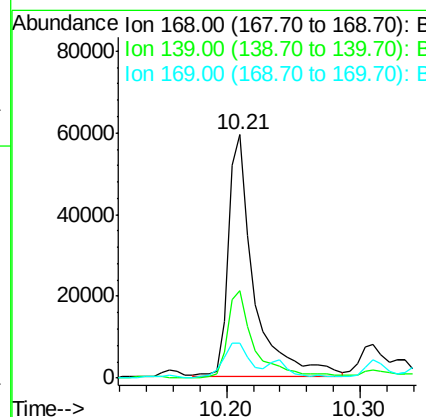
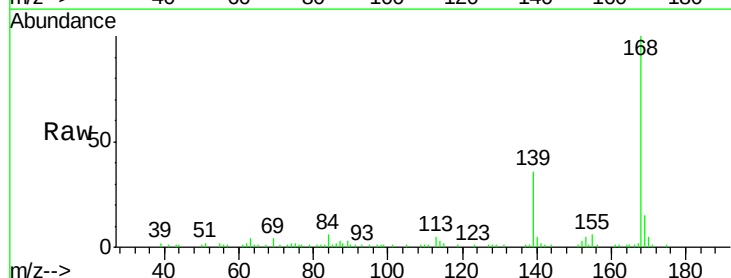
RT: 10.21 min Scan# 1381

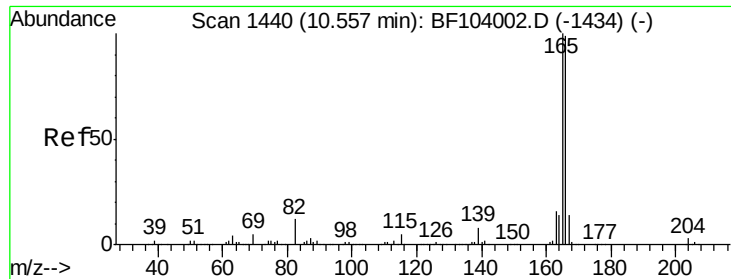
Delta R.T. -0.00 min

Lab File: BF104172.D

Acq: 3 Apr 2018 10:06

Tgt Ion:	168	Resp:	79271
Ion Ratio	Lower	Upper	
168	100		
139	35.8	30.1	45.1
169	14.5	10.9	16.3





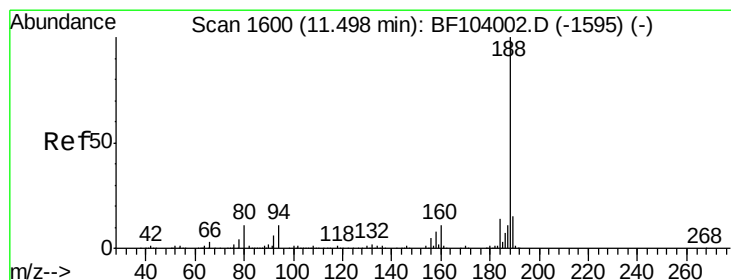
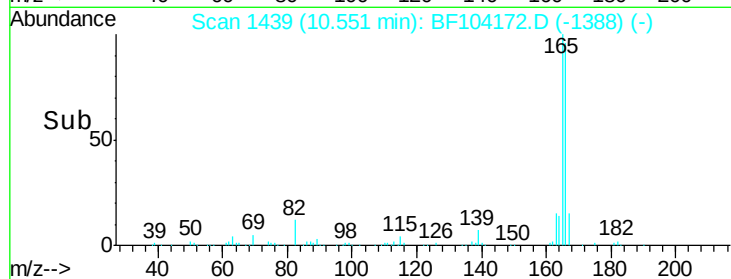
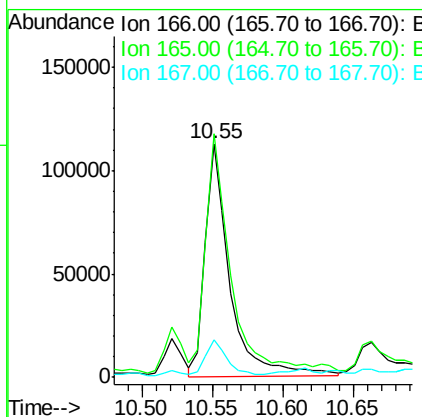
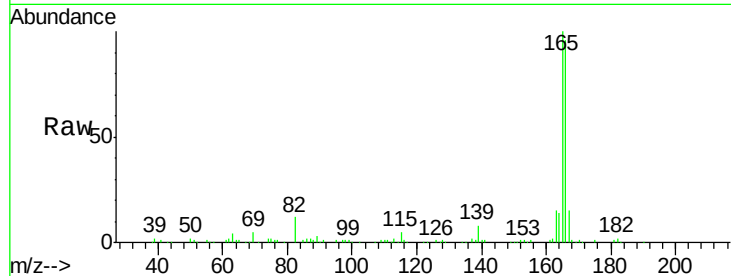
#57
 Fluorene
 Concen: 13.956 ng
 RT: 10.55 min Scan# 1439
 Delta R.T. -0.00 min
 Lab File: BF104172.D
 Acq: 3 Apr 2018 10:06

Instrument :
 BNA_F
 ClientSampleId :
 A2_SB30_N_8

Tot Ion	Ratio	Lower	Upper
166	100		
165	104.2	79.8	119.8
167	16.0	10.6	16.0

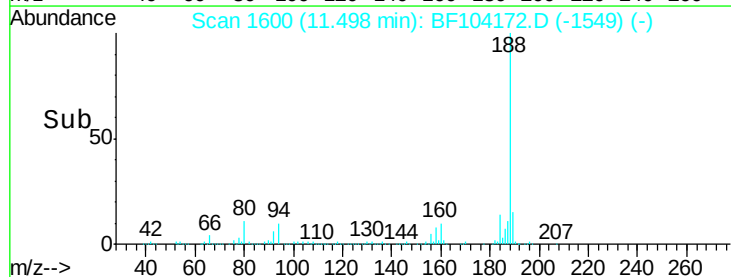
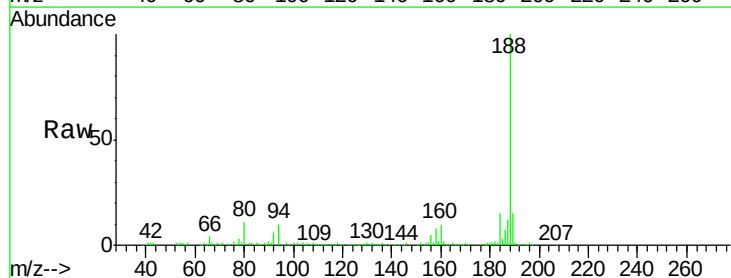
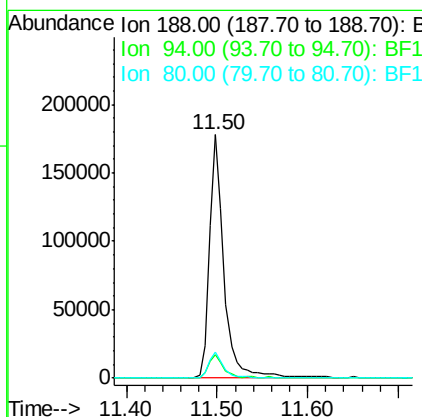
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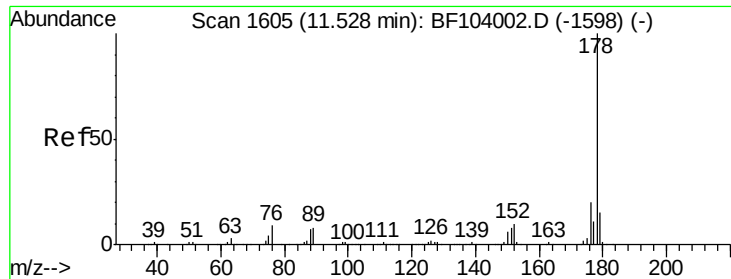
Sohil
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#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.50 min Scan# 1600
 Delta R.T. -0.00 min
 Lab File: BF104172.D
 Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.8	8.5	12.7
80	10.7	9.2	13.8





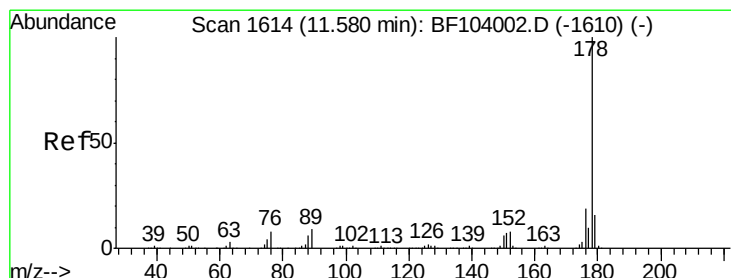
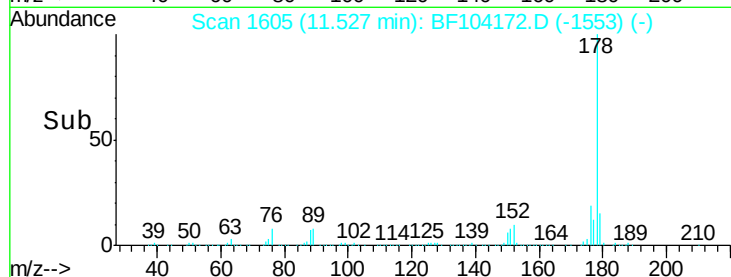
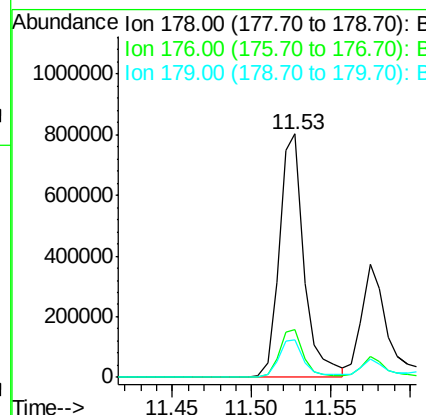
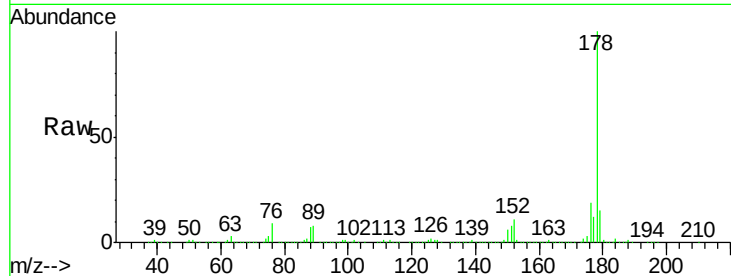
#70
Phenanthrene
Concen: 79.838 ng
RT: 11.53 min Scan# 1605
Delta R.T. 0.01 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.8	23.8
179	15.4	13.0	19.6

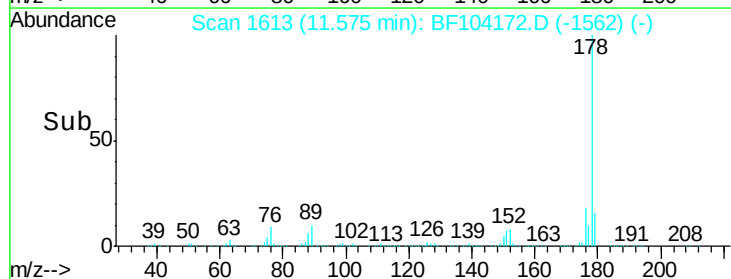
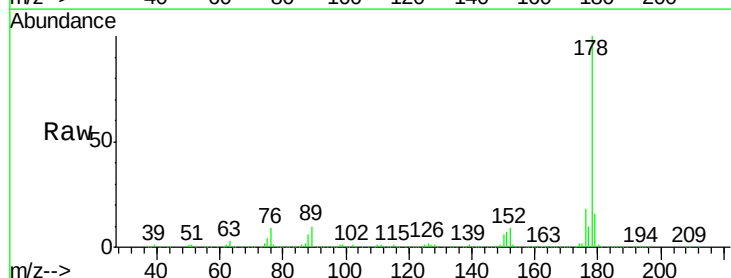
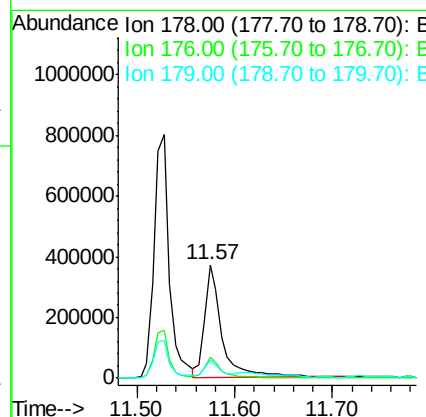
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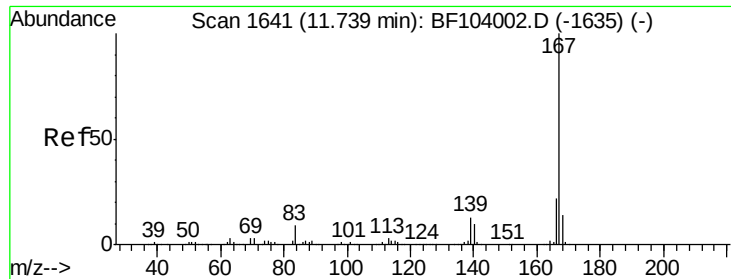
Sohil
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#71
Anthracene
Concen: 40.058 ng
RT: 11.57 min Scan# 1613
Delta R.T. -0.00 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.4	23.2
179	16.2	12.6	19.0





#72

Carbazole

Concen: 4.429 ng

RT: 11.74 min Scan# 1641

Delta R.T. 0.01 min

Lab File: BF104172.D

Acq: 3 Apr 2018 10:06

Instrument :

BNA_F

ClientSampleId :

A2_SB30_N_8

Tot Ion:167 Resp: 48208

Ion Ratio Lower Upper

167 100

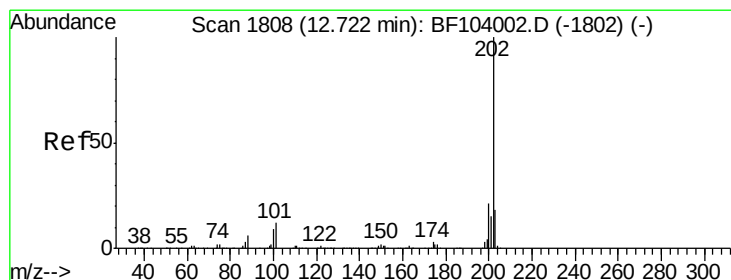
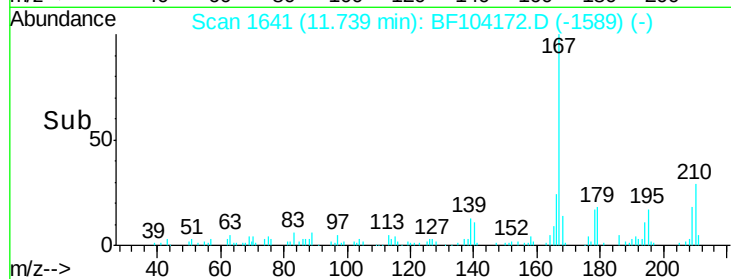
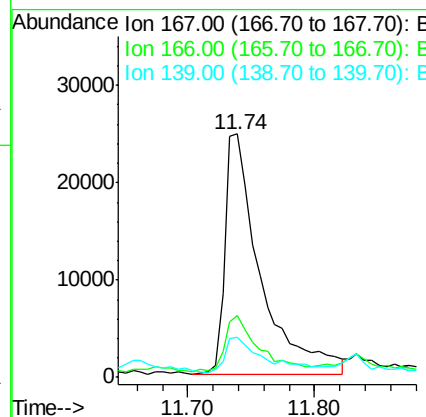
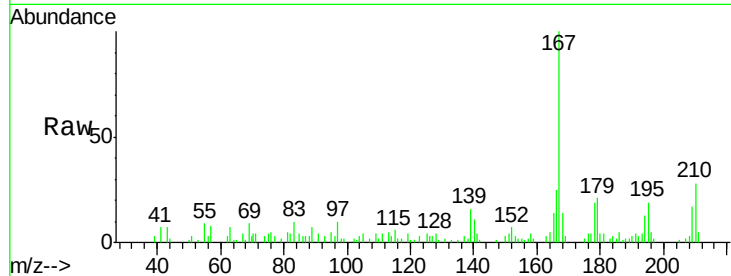
166 25.2 17.6 26.4

139 16.5 10.9 16.3#

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#74

Fluoranthene

Concen: 127.107 ng

RT: 12.73 min Scan# 1809

Delta R.T. 0.01 min

Lab File: BF104172.D

Acq: 3 Apr 2018 10:06

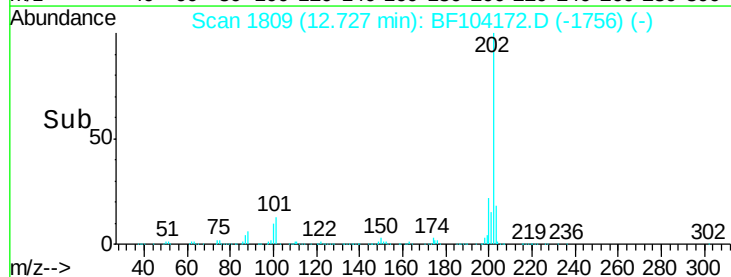
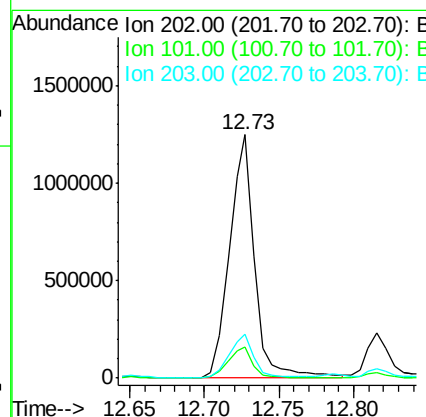
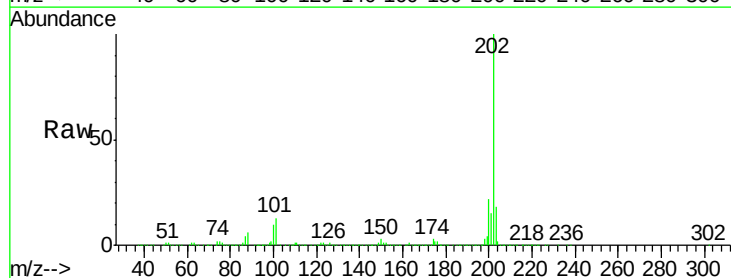
Tgt Ion:202 Resp: 1475067

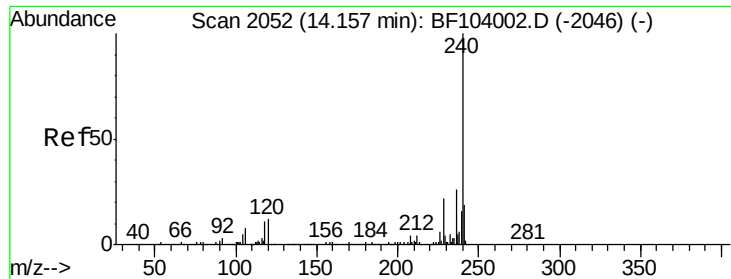
Ion Ratio Lower Upper

202 100

101 12.7 0.0 34.1

203 18.0 0.0 38.1





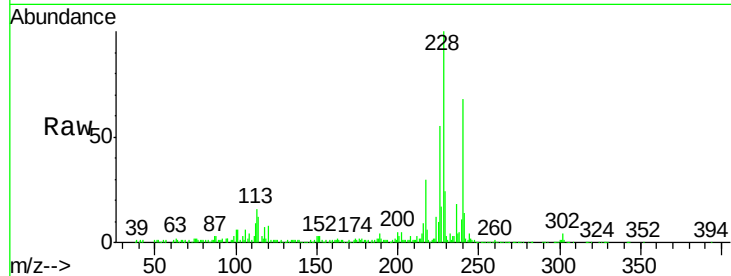
#75
Chrysene-d12
Concen: 20.000 ng
RT: 14.16 min Scan# 2053
Delta R.T. 0.01 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

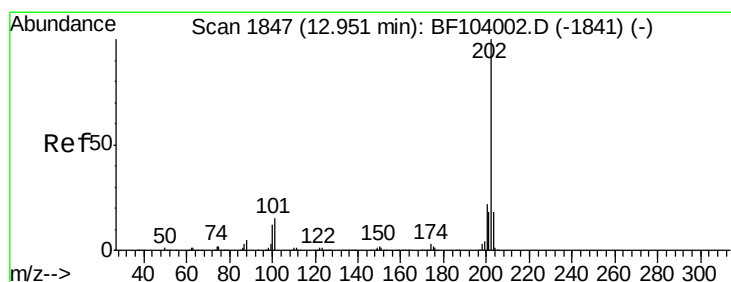
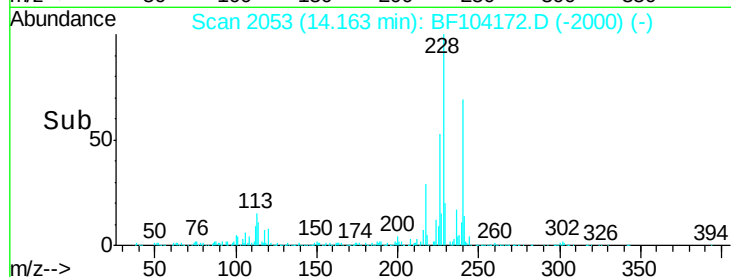
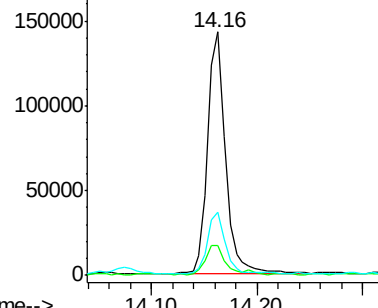
Tot Ion	Ratio	Resp	Lower	Upper
240	100	166916		
120	12.2	9.5	14.3	
236	25.9	20.7	31.1	

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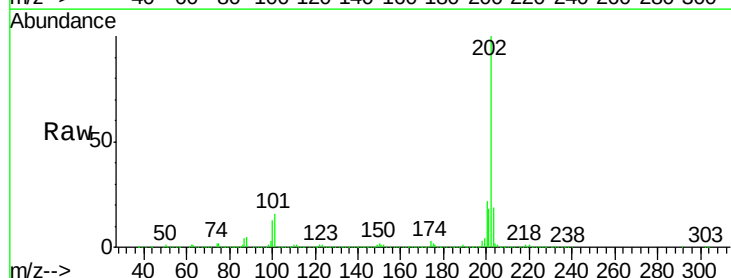


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

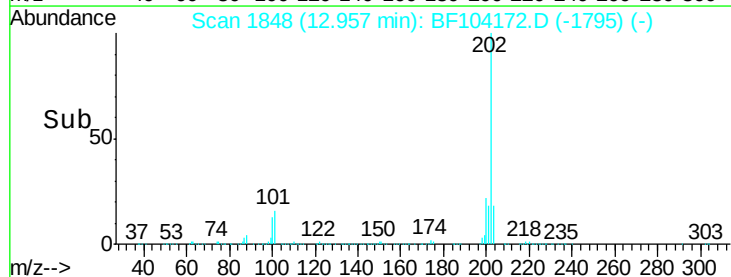
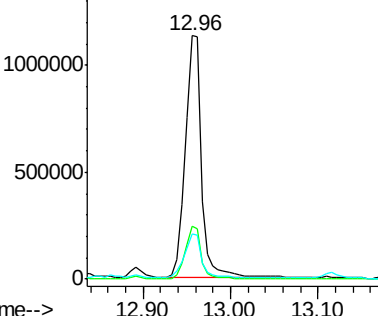


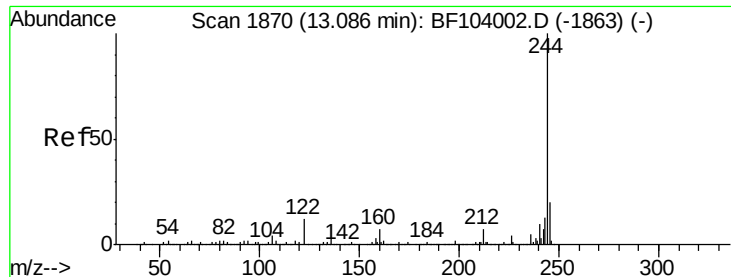
#77
Pyrene
Concen: 122.796 ng
RT: 12.96 min Scan# 1848
Delta R.T. 0.01 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	1473410		
200	21.9	17.4	26.2	
203	18.7	14.3	21.5	



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: 4.338 ng

RT: 13.08 min Scan# 1869

Delta R.T. -0.00 min

Lab File: BF104172.D

Acq: 3 Apr 2018 10:06

Instrument :

BNA_F

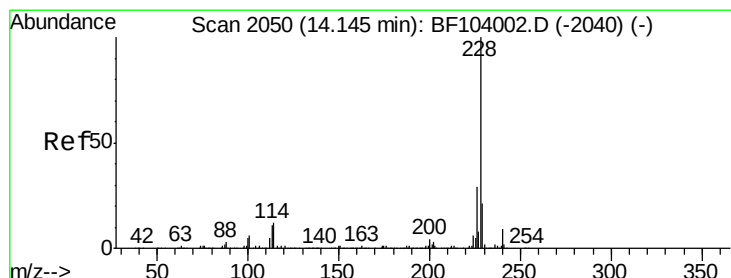
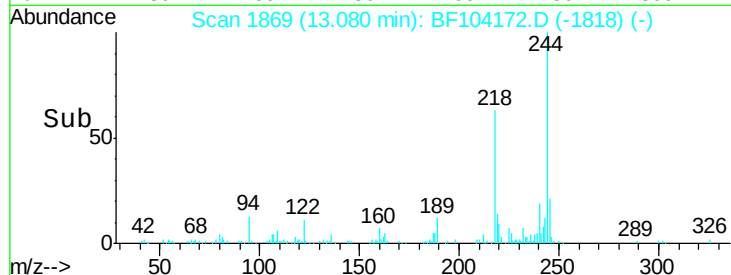
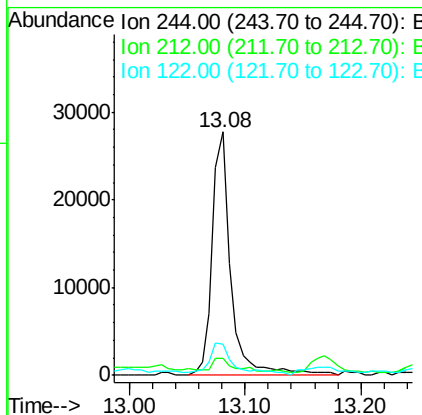
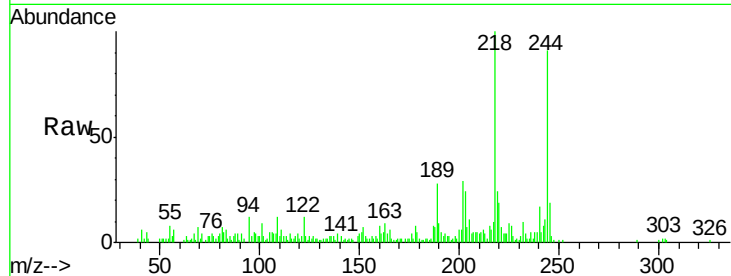
ClientSampleId :

A2_SB30_N_8

Tot Ion:	244	Resp:	31361
Ion Ratio	Lower	Upper	
244	100		
212	7.0	5.4	8.0
122	13.0	11.0	16.4

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#80

Benzo(a)anthracene

Concen: 84.502 ng m

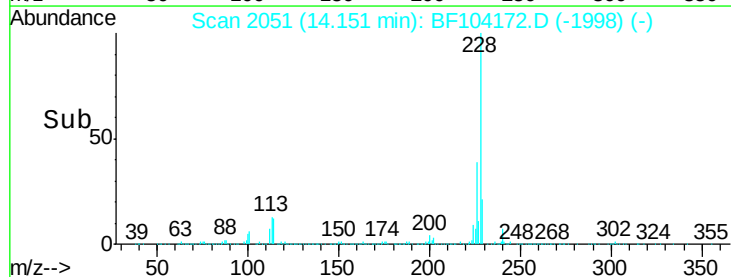
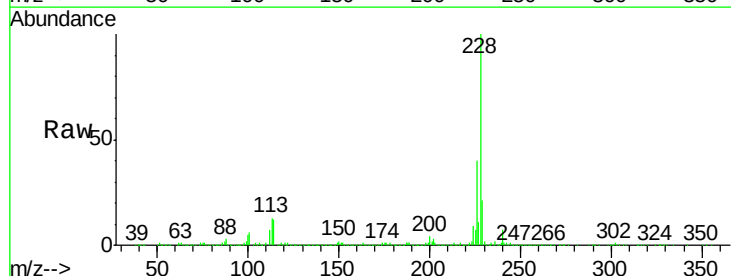
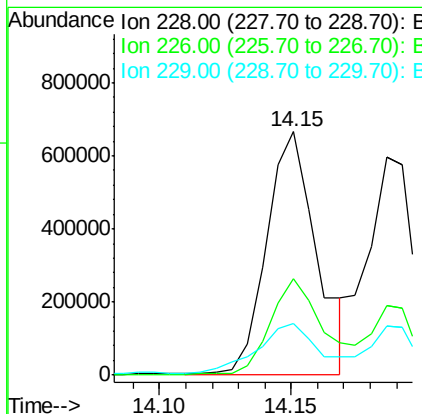
RT: 14.15 min Scan# 2051

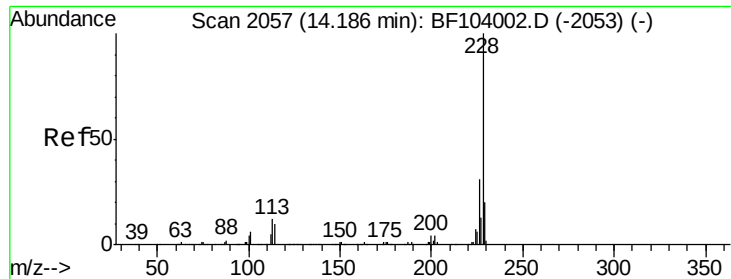
Delta R.T. 0.01 min

Lab File: BF104172.D

Acq: 3 Apr 2018 10:06

Tgt Ion:	228	Resp:	882557
Ion Ratio	Lower	Upper	
228	100		
226	39.6	22.6	33.8#
229	21.4	15.8	23.6





#82

Chrysene

Concen: 70.945 ng

RT: 14.19 min Scan# 2057

Delta R.T. 0.01 min

Lab File: BF104172.D

Acq: 3 Apr 2018 10:06

Instrument :

BNA_F

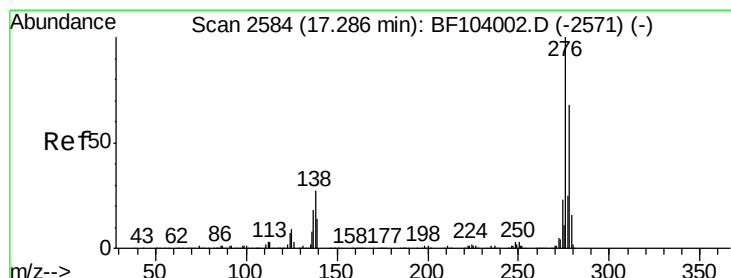
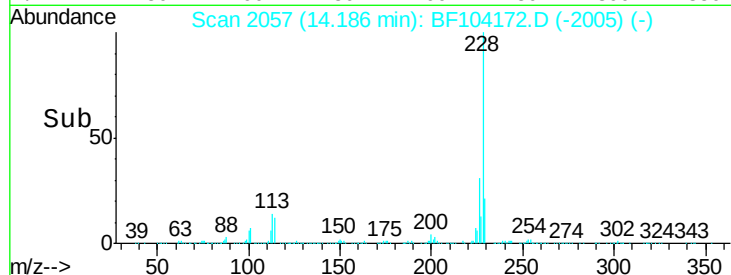
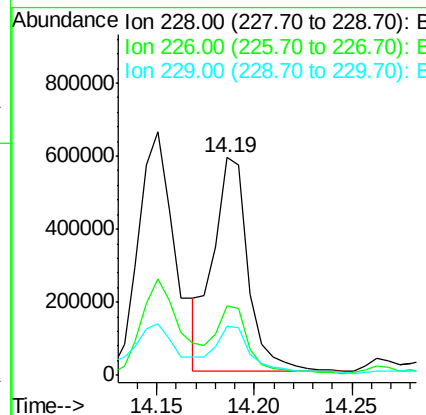
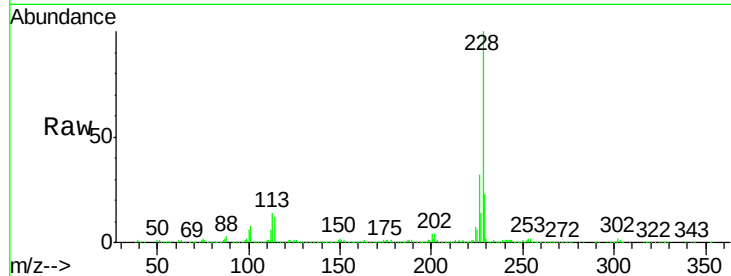
ClientSampleId :

A2_SB30_N_8

Tot Ion:	228	Resp:	725739
Ion Ratio	Lower	Upper	
228	100		
226	32.0	25.0	37.6
229	22.6	16.2	24.4

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#85

Indeno(1,2,3-cd)pyrene

Concen: 31.712 ng m

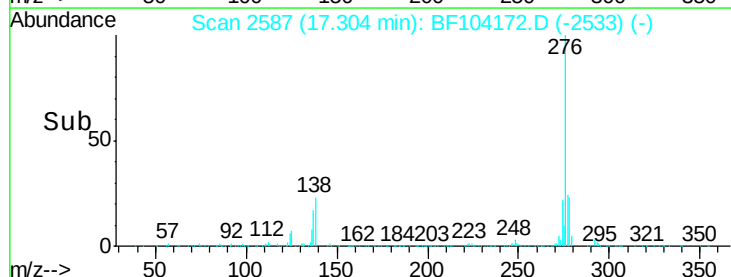
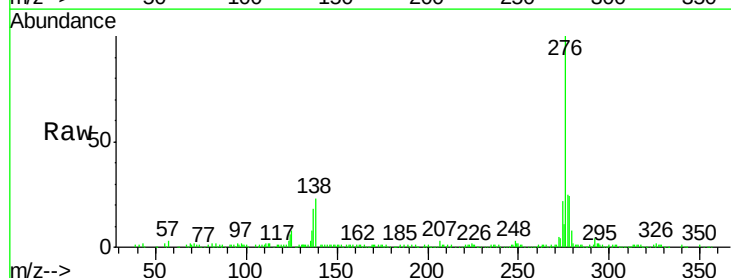
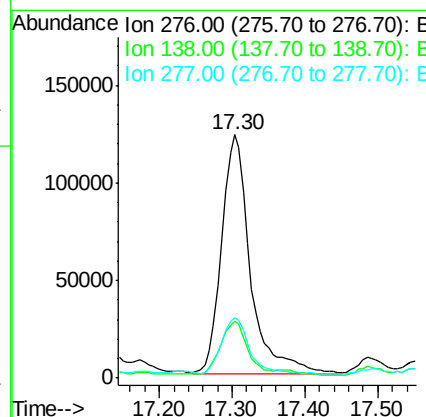
RT: 17.30 min Scan# 2587

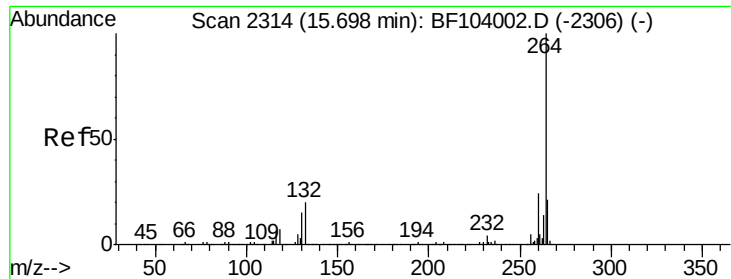
Delta R.T. 0.02 min

Lab File: BF104172.D

Acq: 3 Apr 2018 10:06

Tgt Ion:	276	Resp:	336159
Ion Ratio	Lower	Upper	
276	100		
138	4.7	25.0	37.6#
277	4.2	20.1	30.1#





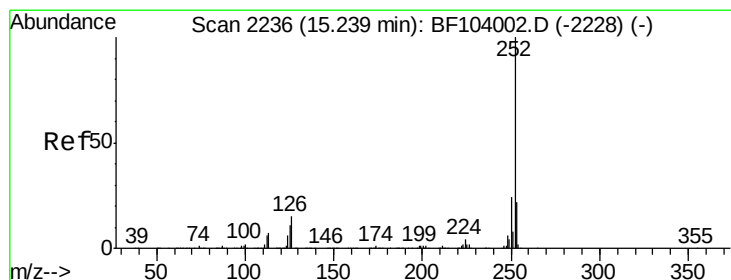
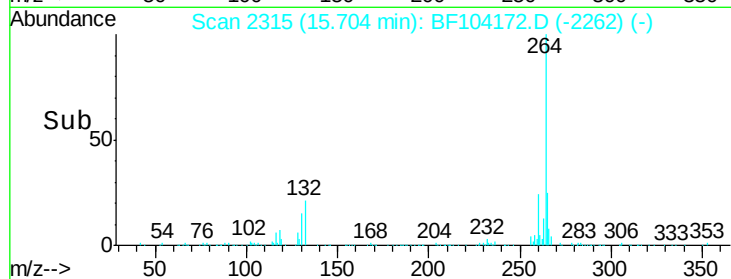
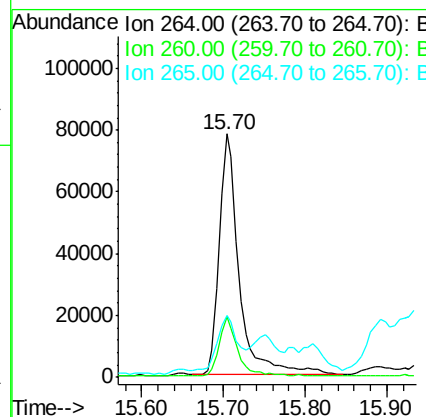
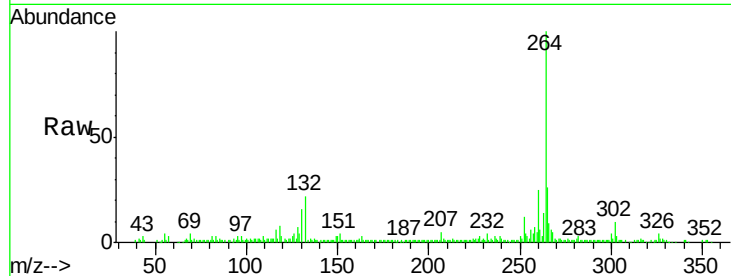
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2315
Delta R.T. 0.01 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.2	28.8
265	25.6	17.5	26.3

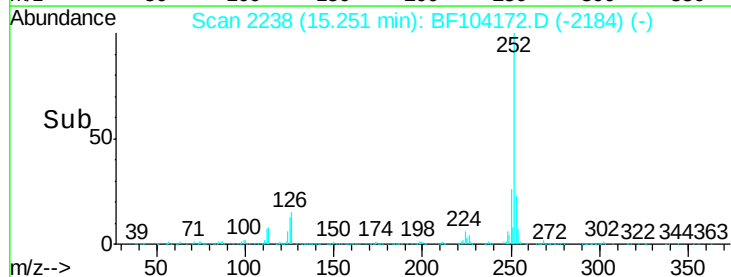
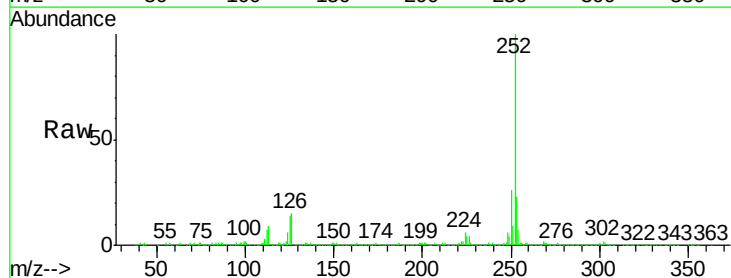
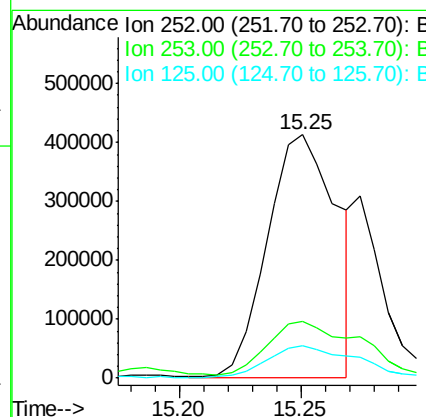
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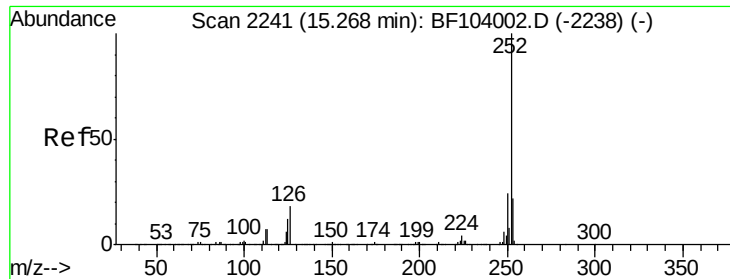
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#87
Benzo(b)fluoranthene
Concen: 102.280 ng m
RT: 15.25 min Scan# 2238
Delta R.T. 0.02 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	13.5	9.0	13.6





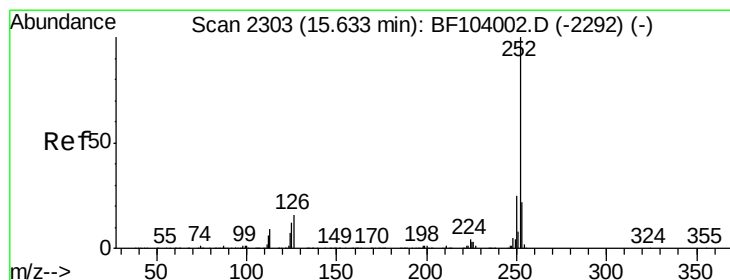
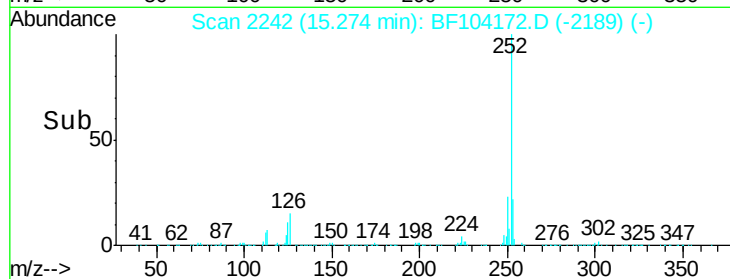
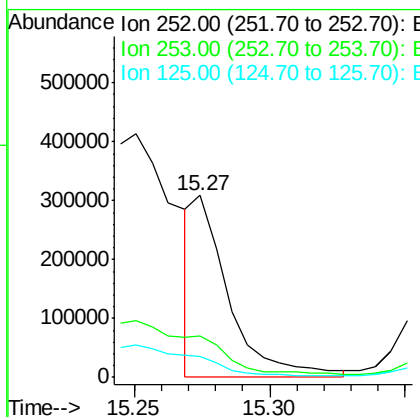
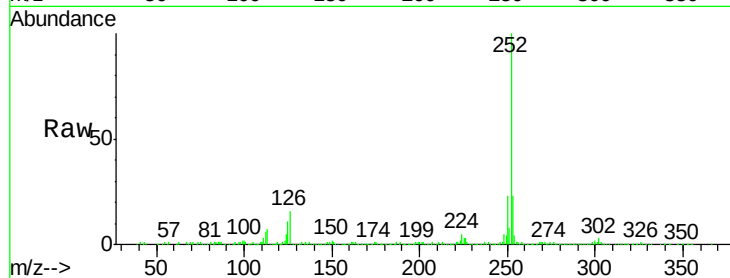
#88
Benzo(k)fluoranthene
Concen: 37.495 ng m
RT: 15.27 min Scan# 2242
Delta R.T. 0.01 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.9	26.9
125	11.5	10.2	15.2

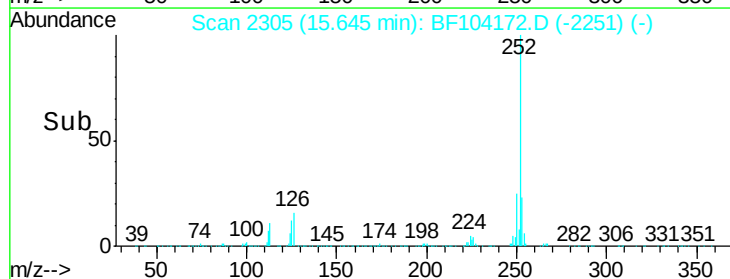
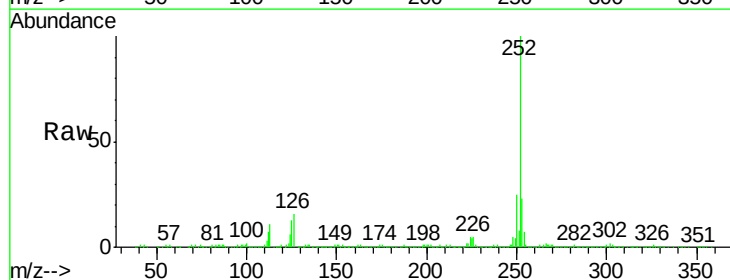
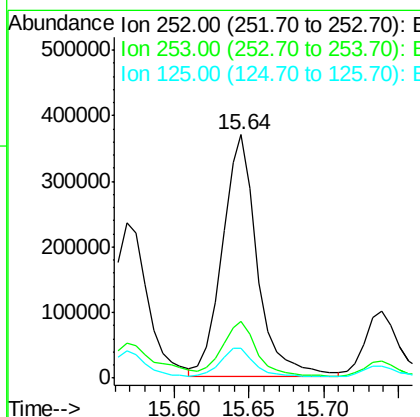
Manual Integrations
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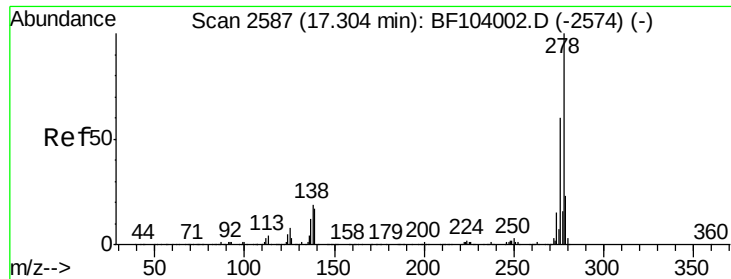
Sohil
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#89
Benzo(a)pyrene
Concen: 80.809 ng
RT: 15.64 min Scan# 2305
Delta R.T. 0.02 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.1	25.7
125	12.5	9.8	14.6





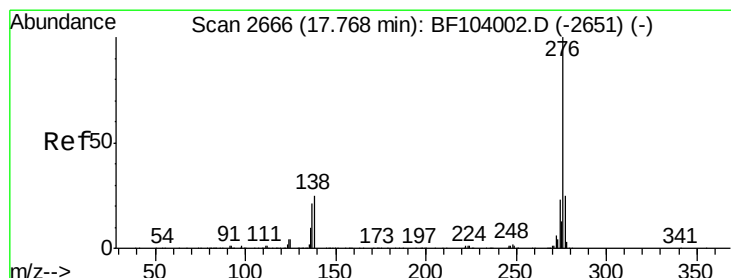
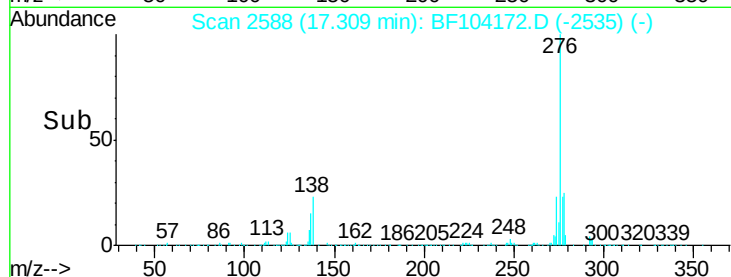
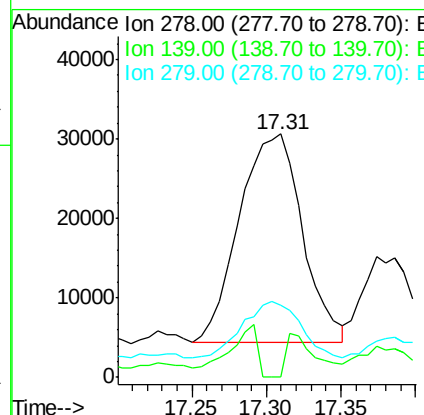
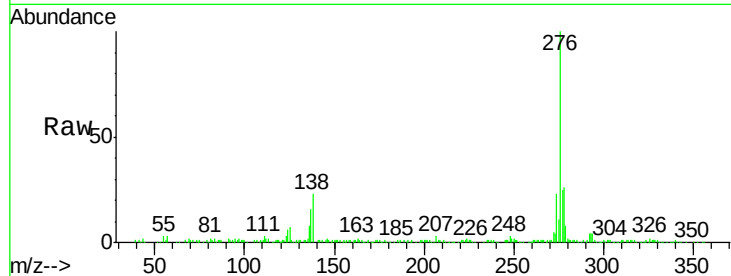
#90
Dibenzo(a,h)anthracene
Concen: 11.191 ng
RT: 17.31 min Scan# 2588
Delta R.T. 0.01 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Instrument :
BNA_F
ClientSampleId :
A2_SB30_N_8

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	29.4	19.0	28.4#

Manual Integrations
APPROVED

Sohil
4/3/2018 2:28:46 PM



#91
Benzo(g,h,i)perylene
Concen: 46.552 ng
RT: 17.79 min Scan# 2670
Delta R.T. 0.02 min
Lab File: BF104172.D
Acq: 3 Apr 2018 10:06

Tgt Ion	Ratio	Lower	Upper
276	100		
277	24.1	17.9	26.9
138	22.8	21.8	32.8

