

Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
 Data File : BF102427.D
 Acq On : 25 Jan 2018 15:40
 Operator : SJ/JU
 Sample : J1308-03 50X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB70-E-S-8

Manual Integrations
 APPROVED

Sohil
 1/25/2018 5:42:28 PM

Quant Time: Jan 25 16:15:53 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF012218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jan 25 13:44:56 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	113655	20.00	ng	0.00
21) Naphthalene-d8	8.00	136	421072	20.00	ng	0.00
38) Acenaphthene-d10	9.75	164	171841	20.00	ng	0.00
63) Phenanthrene-d10	11.24	188	251243	20.00	ng	0.00
75) Chrysene-d12	13.88	240	211098	20.00	ng	0.00
86) Perylene-d12	15.30	264	227071	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.33	112	1831	0.24	ng	0.00
7) Phenol-d6	6.36	99	3650	0.40	ng	0.00
23) Nitrobenzene-d5	7.28	82	2682	0.37	ng	-0.01
41) 2,4,6-Tribromophenol	10.54	330	478	0.28	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	4172	0.36	ng	0.00
78) Terphenyl-d14	12.82	244	4133	0.44	ng	-0.01
Target Compounds						
31) Naphthalene	8.04	128	5250922	249.765	ng	97
37) 2-Methylnaphthalene	8.72	142	938139	67.005	ng	98
45) 1,1'-Biphenyl	9.17	154	253876	16.523	ng	96
48) Acenaphthylene	9.62	152	287478	15.450	ng	99
51) Acenaphthene	9.79	154	686063	63.133	ng	99
54) Dibenzofuran	9.96	168	762110	51.819	ng	98
57) Fluorene	10.30	166	800494	68.689	ng	100
70) Phenanthrene	11.27	178	1993852	136.188	ng	99
71) Anthracene	11.32	178	653798	43.752	ng	99
72) Carbazole	11.47	167	295069	20.240	ng	99
74) Fluoranthene	12.46	202	1374779	92.083	ng	100
77) Pyrene	12.69	202	1061413	65.032	ng	99
80) Benzo(a)anthracene	13.87	228	601662m	46.294	ng	
82) Chrysene	13.90	228	415662	31.494	ng	98
85) Indeno(1,2,3-cd)pyrene	16.70	276	160421	14.718	ng	97
87) Benzo(b)fluoranthene	14.90	252	533894m	36.276	ng	
88) Benzo(k)fluoranthene	14.92	252	194688m	14.001	ng	
89) Benzo(a)pyrene	15.25	252	408991	30.812	ng	98
90) Dibenzo(a,h)anthracene	16.70	278	46686m	4.342	ng	
91) Benzo(a,h,i)perylene	17.12	276	134014	12.623	ng	97

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

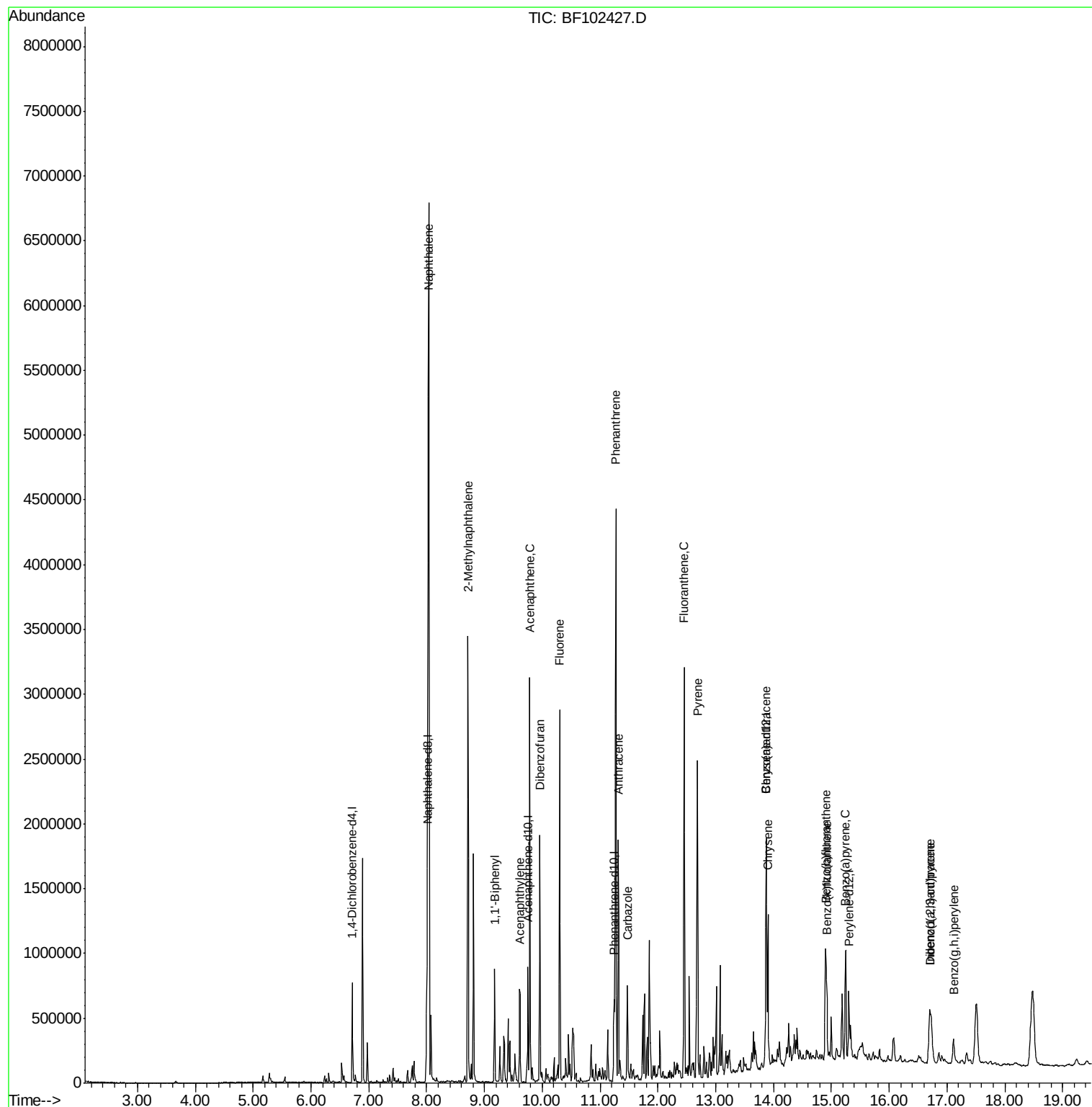
Data Path : U:\HPCHEM1\BNA F\DATA\BF012518\
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ALS Vial : 14 Sample Multiplier: 1

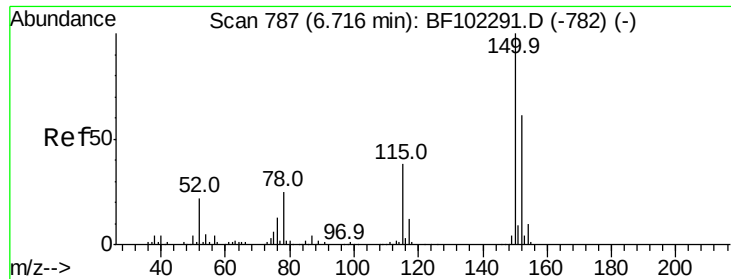
Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-S-8

Manual Integrations
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#1

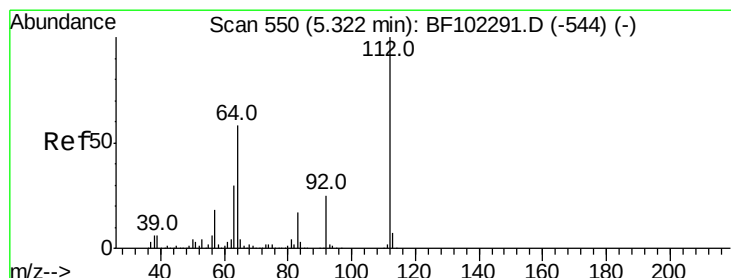
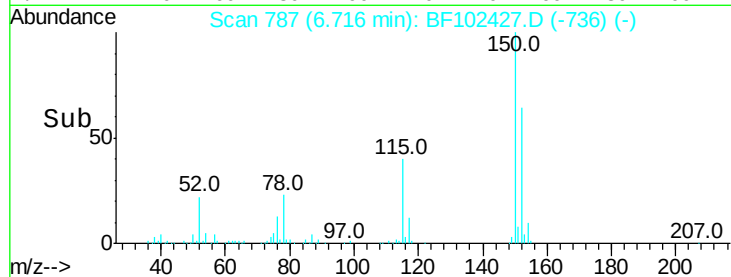
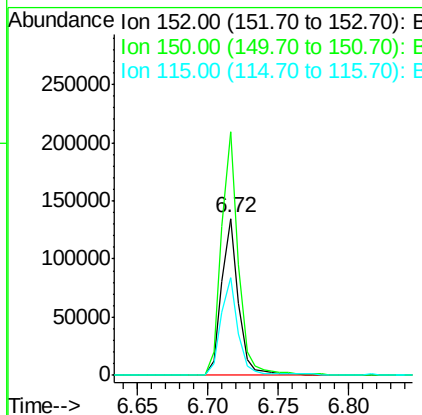
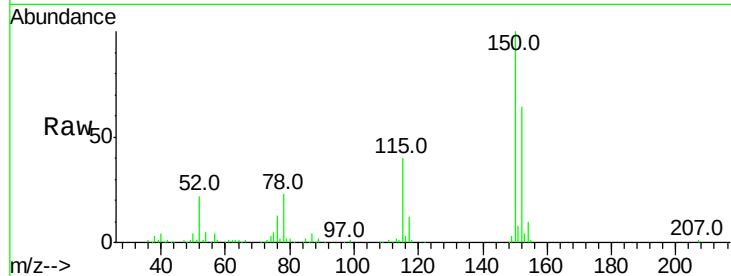
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-S-8

Tot Ion	Ratio	Lower	Upper
152	100		
150	155.4	124.6	186.8
115	62.6	50.1	75.1

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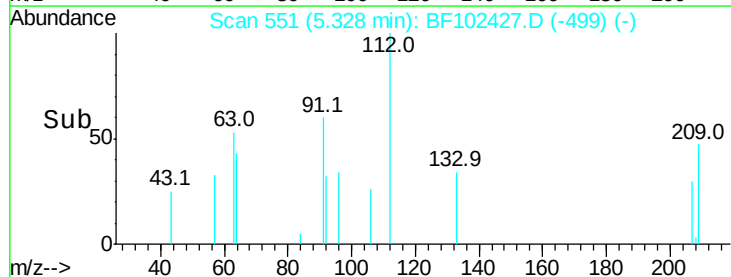
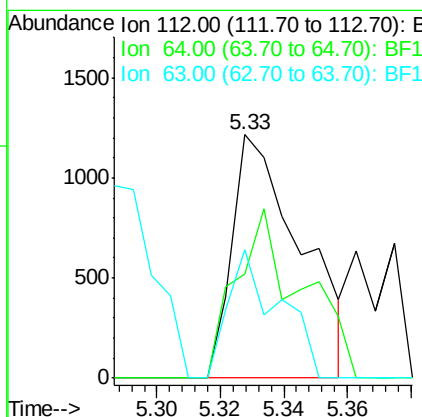
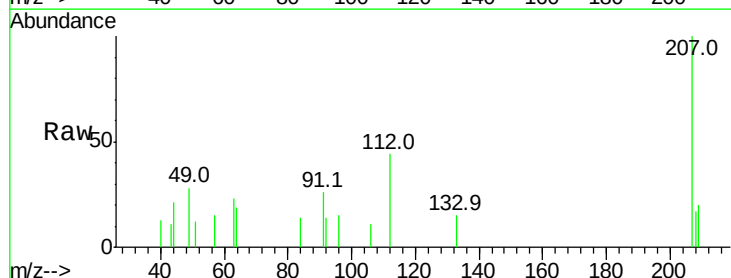
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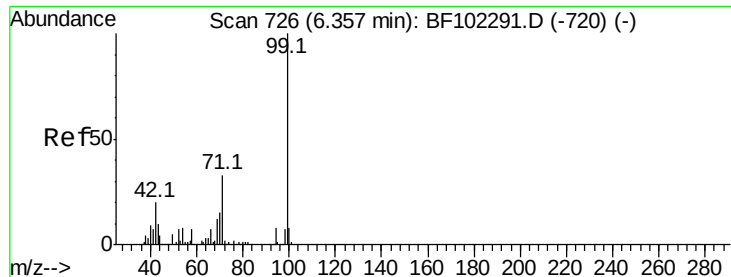


#5

2-Fluorophenol
Concen: 0.244 ng
RT: 5.33 min Scan# 551
Delta R.T. 0.01 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Tgt Ion	Ratio	Lower	Upper
112	100		
64	42.8	47.9	71.9#
63	52.5	23.7	35.5#





#7

Phenol-d6

Concen: 0.404 ng

RT: 6.36 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF102427.D

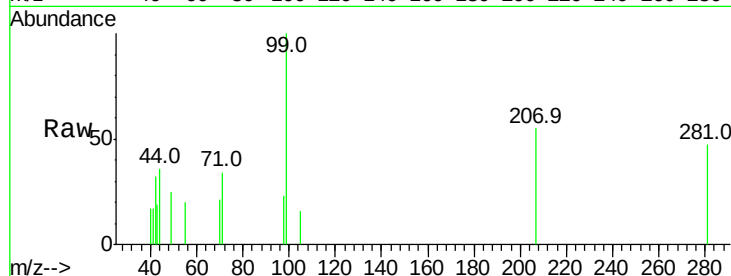
Acq: 25 Jan 2018 15:40

Instrument :

BNA_F

ClientSampleId :

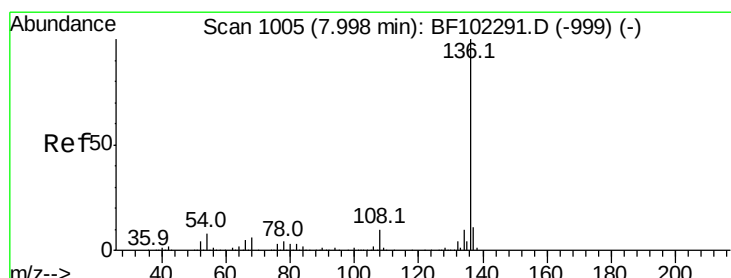
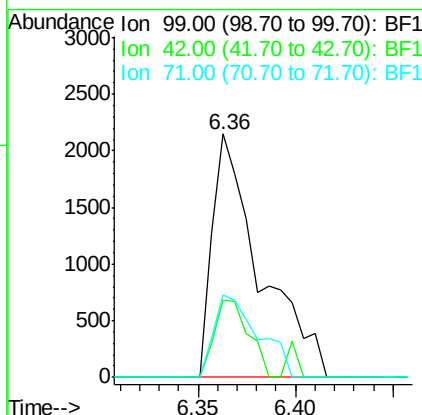
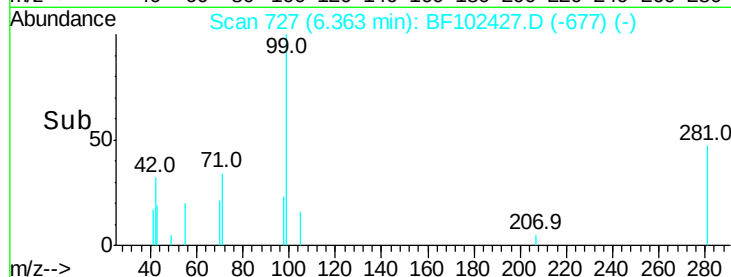
A2-SB70-E-S-8



Tot Ion:	99	Resp:	3650
Ion	Ratio	Lower	Upper
99	100		
42	31.5	14.5	21.7#
71	33.8	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

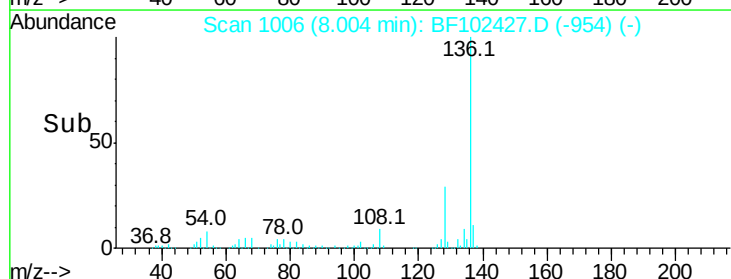
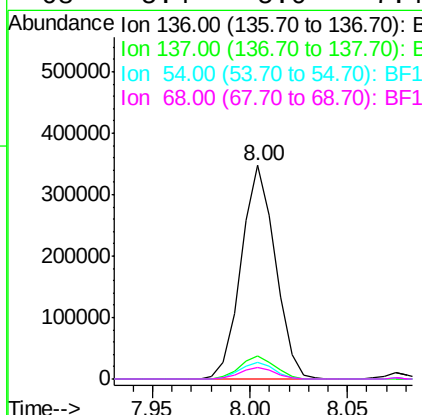
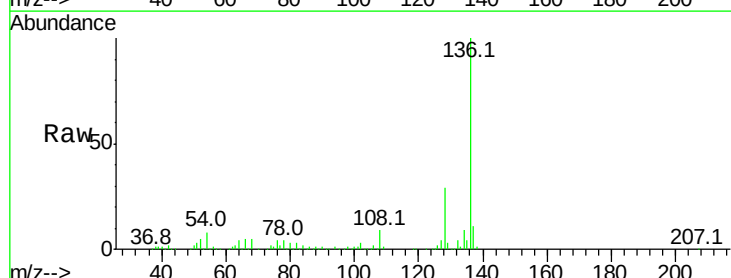
RT: 8.00 min Scan# 1006

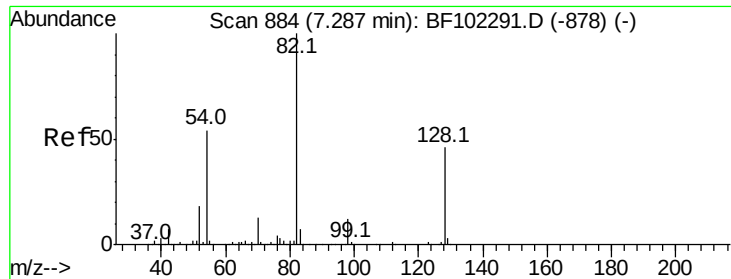
Delta R.T. 0.01 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Tgt Ion:	136	Resp:	421072
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.9	13.3
54	7.8	6.6	9.8
68	5.4	5.0	7.4





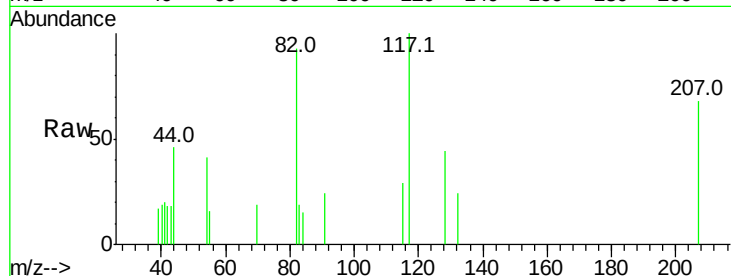
#23
Nitrobenzene-d5
Concen: 0.366 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-S-8

Tot Ion	82	Resp	2682
Ion Ratio	100	Lower	Upper
128	47.0	36.1	54.1
54	44.4	41.4	62.2

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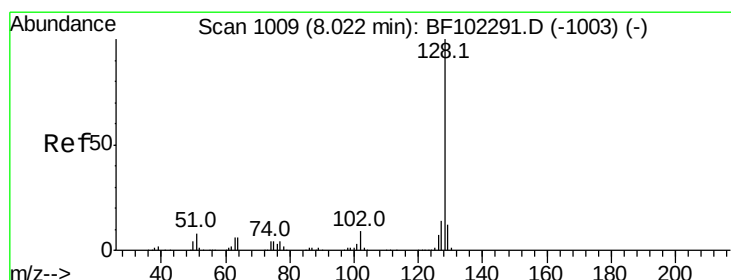
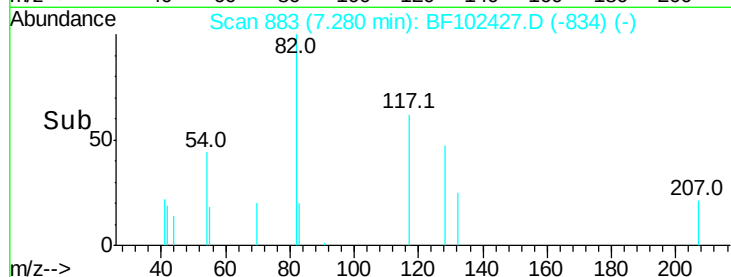
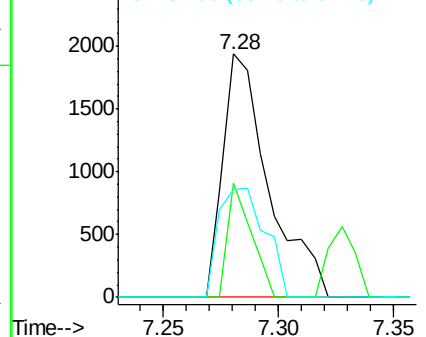


Abundance

Ion 82.00 (81.70 to 82.70): BF1

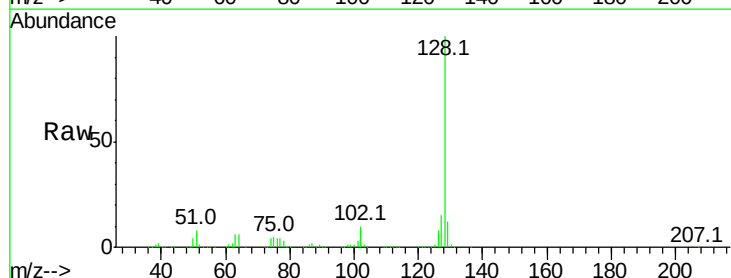
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



#31
Naphthalene
Concen: 249.765 ng
RT: 8.04 min Scan# 1012
Delta R.T. 0.02 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Tgt Ion	128	Resp	5250922
Ion Ratio	100	Lower	Upper
129	11.8	8.8	13.2
127	14.7	10.9	16.3

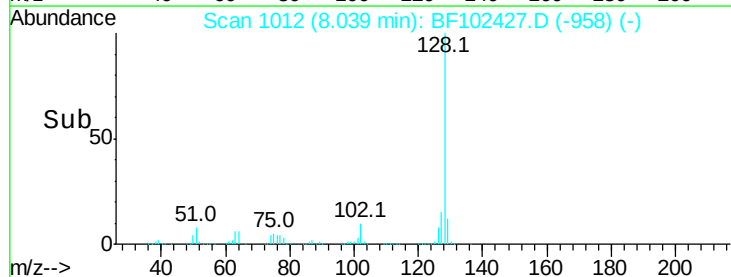
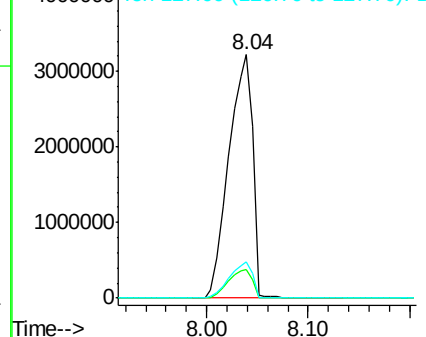


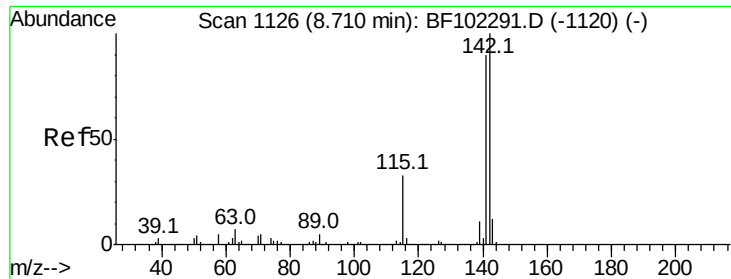
Abundance

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: 67.005 ng

RT: 8.72 min Scan# 1127

Delta R.T. -0.00 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Instrument :

BNA_F

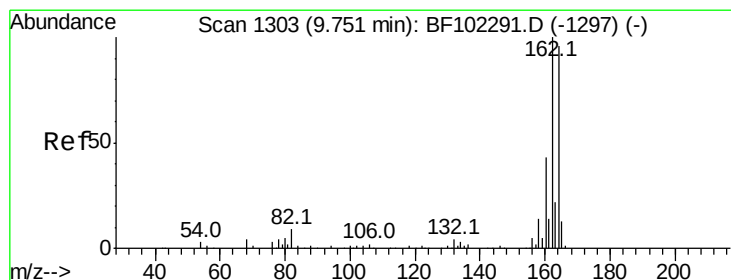
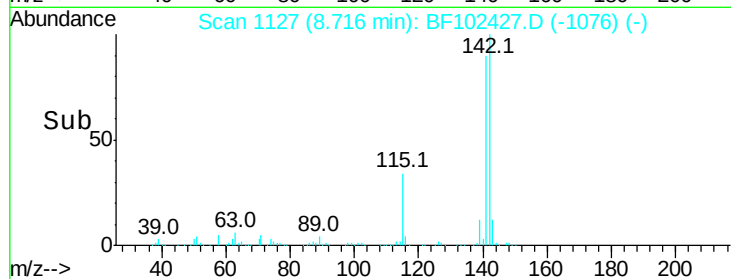
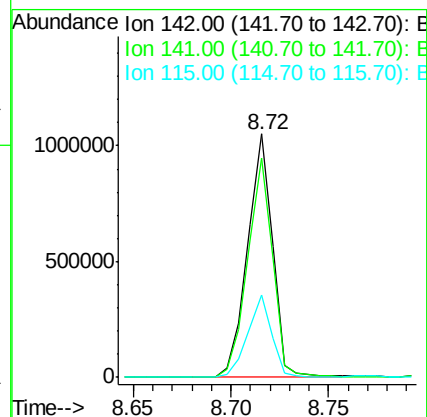
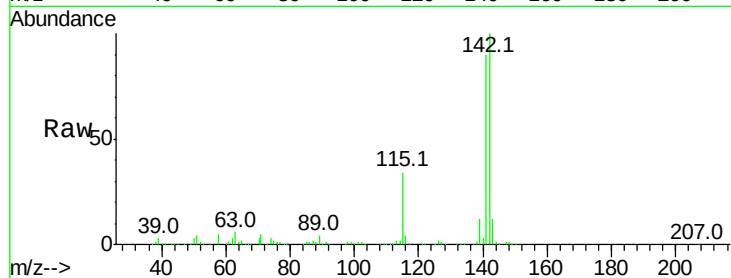
ClientSampleId :

A2-SB70-E-S-8

Tot Ion:	142	Resp:	938139
Ion Ratio	Lower	Upper	
142	100		
141	90.2	70.8	106.2
115	33.6	26.1	39.1

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#38

Acenaphthene-d10

Concen: 20.000 ng

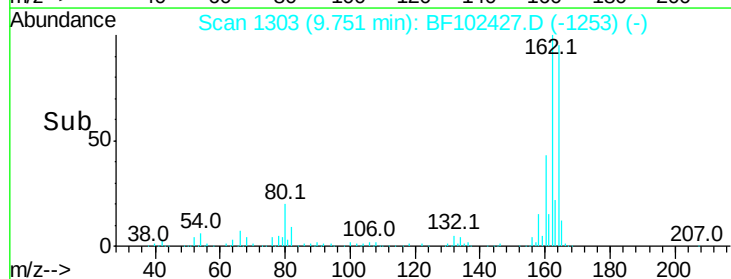
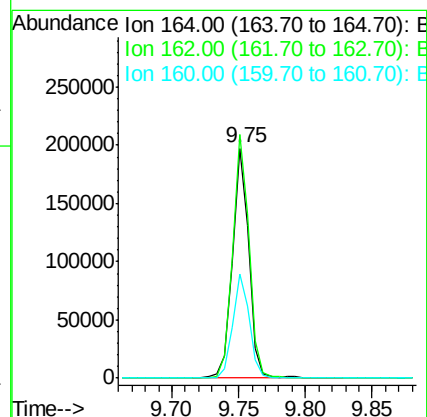
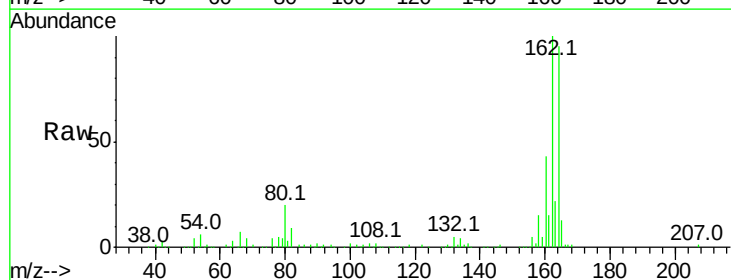
RT: 9.75 min Scan# 1303

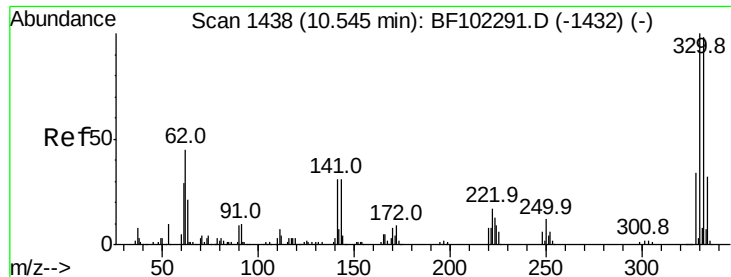
Delta R.T. -0.01 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Tgt Ion:	164	Resp:	171841
Ion Ratio	Lower	Upper	
164	100		
162	105.8	86.1	129.1
160	45.3	38.3	57.5





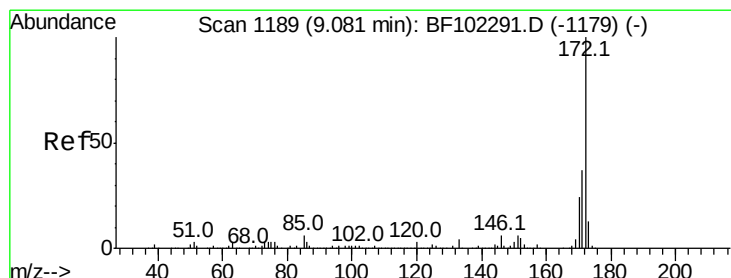
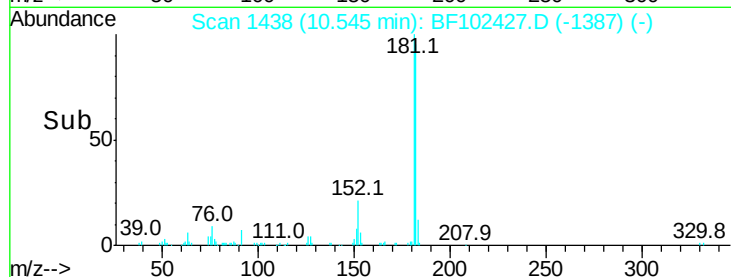
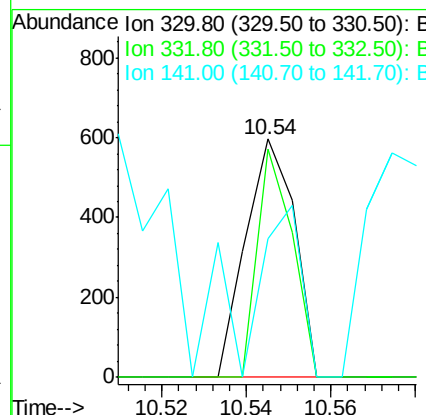
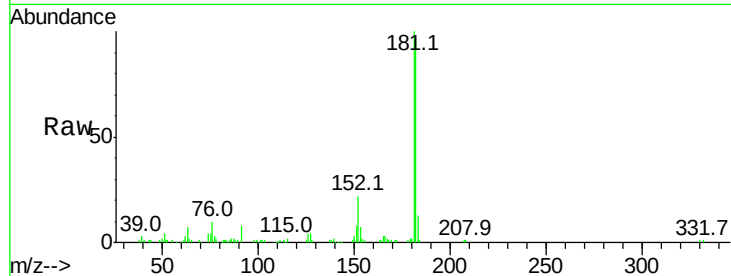
#41
 2,4,6-Tribromophenol
 Concen: 0.281 ng
 RT: 10.54 min Scan# 1438
 Delta R.T. -0.00 min
 Lab File: BF102427.D
 Acq: 25 Jan 2018 15:40

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB70-E-S-8

Tot Ion	Ratio	Lower	Upper
330	100		
332	68.8	77.0	115.6#
141	57.5	29.9	44.9#

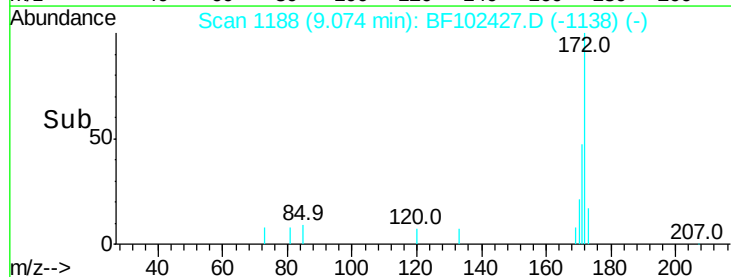
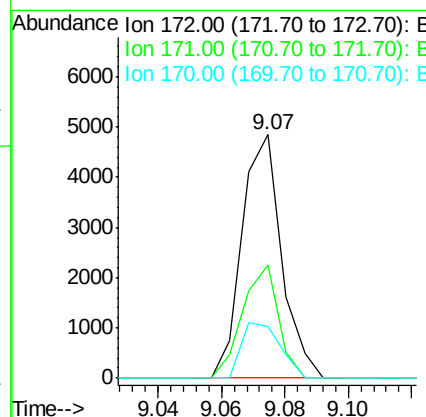
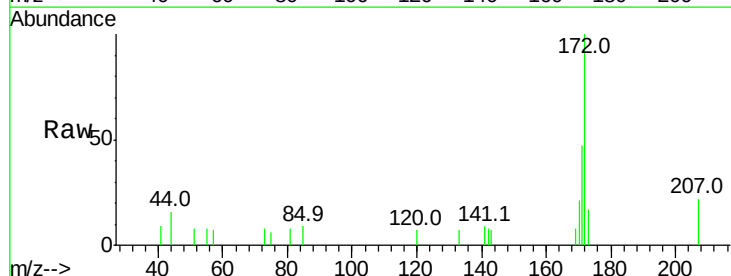
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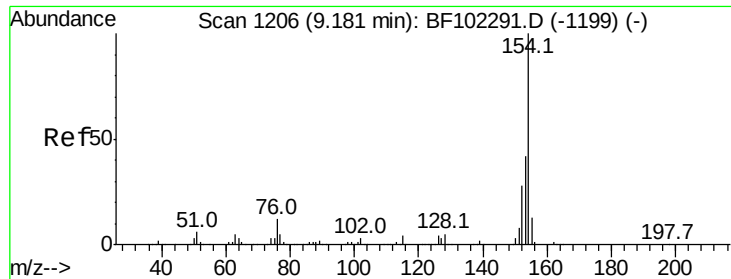
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#44
 2-Fluorobiphenyl
 Concen: 0.357 ng
 RT: 9.07 min Scan# 1188
 Delta R.T. -0.01 min
 Lab File: BF102427.D
 Acq: 25 Jan 2018 15:40

Tgt Ion	Ratio	Lower	Upper
172	100		
171	46.6	29.7	44.5#
170	21.2	19.6	29.4





#45

1,1'-Biphenyl

Concen: 16.523 ng

RT: 9.17 min Scan# 1205

Delta R.T. -0.01 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Instrument :

BNA_F

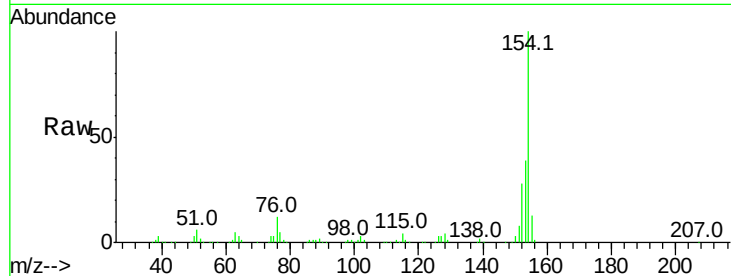
ClientSampleId :

A2-SB70-E-S-8

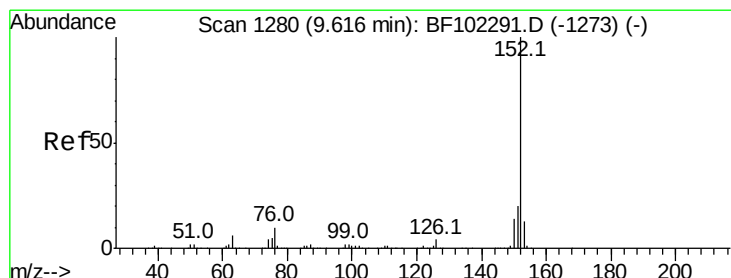
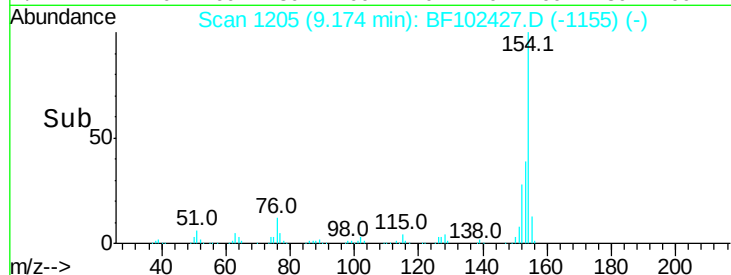
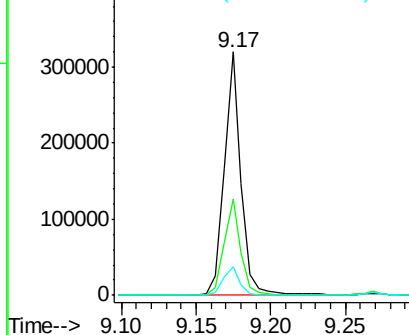
Tot Ion:	154	Resp:	253876
Ion Ratio	Lower	Upper	
154	100		
153	39.5	21.3	61.3
76	11.5	0.0	34.0

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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: 15.450 ng

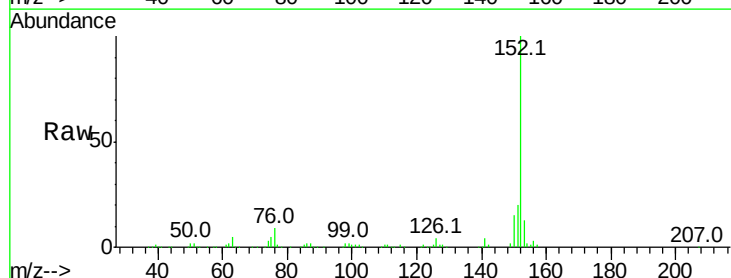
RT: 9.62 min Scan# 1280

Delta R.T. -0.01 min

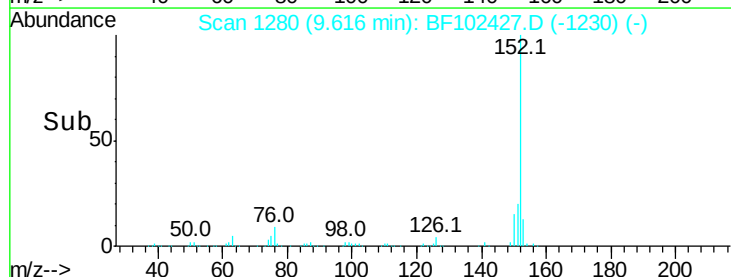
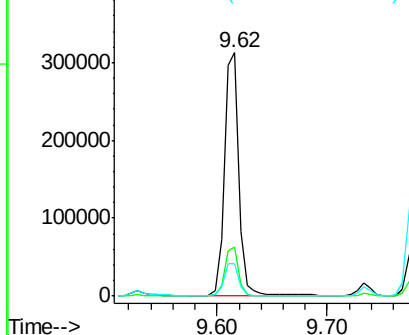
Lab File: BF102427.D

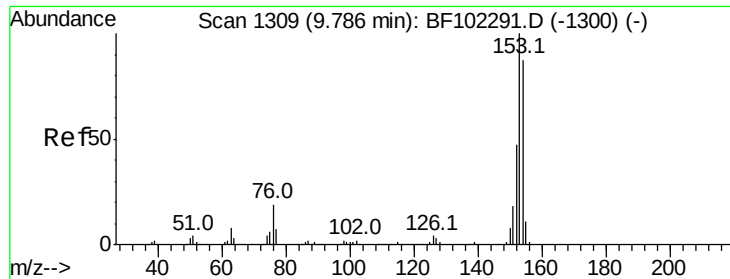
Acq: 25 Jan 2018 15:40

Tgt Ion:	152	Resp:	287478
Ion Ratio	Lower	Upper	
152	100		
151	20.2	16.3	24.5
153	13.1	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: 63.133 ng

RT: 9.79 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Instrument :

BNA_F

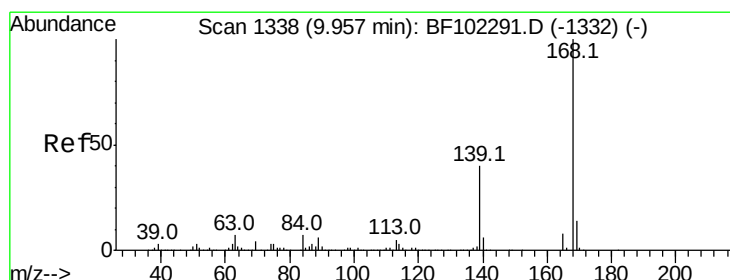
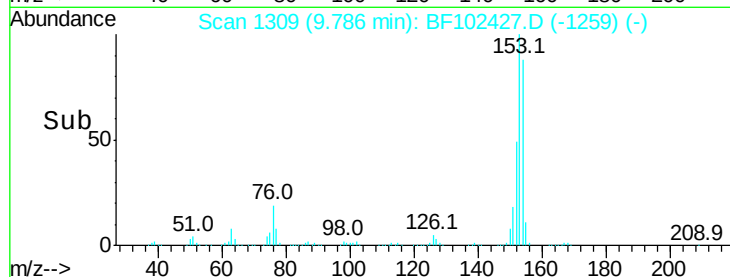
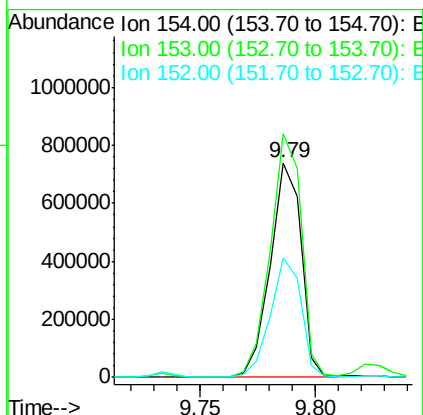
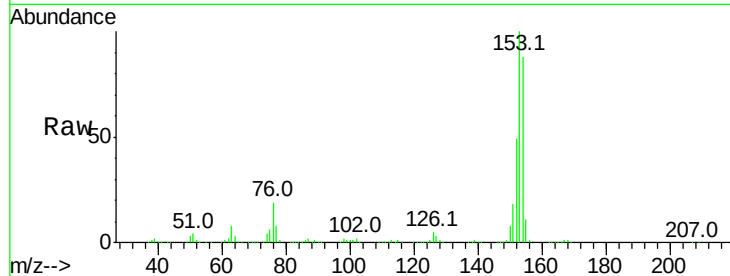
ClientSampleId :

A2-SB70-E-S-8

Tot Ion:	154	Resp:	686063
Ion Ratio	Lower	Upper	
154	100		
153	113.4	91.2	136.8
152	55.4	43.8	65.8

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#54

Dibenzofuran

Concen: 51.819 ng

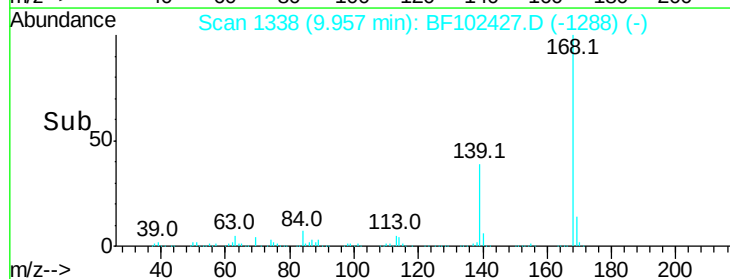
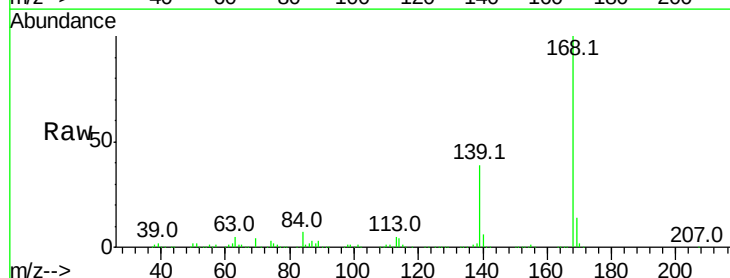
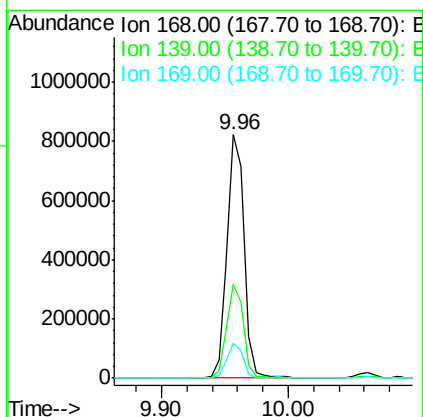
RT: 9.96 min Scan# 1338

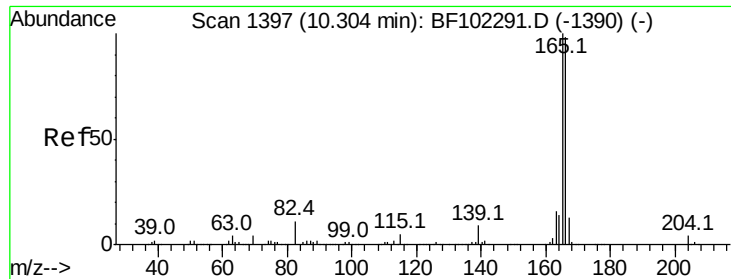
Delta R.T. -0.01 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Tgt Ion:	168	Resp:	762110
Ion Ratio	Lower	Upper	
168	100		
139	38.8	30.1	45.1
169	14.2	10.9	16.3





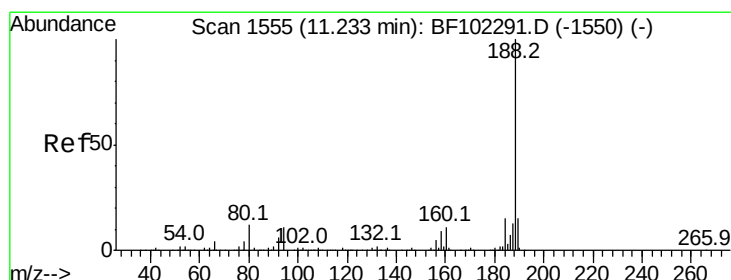
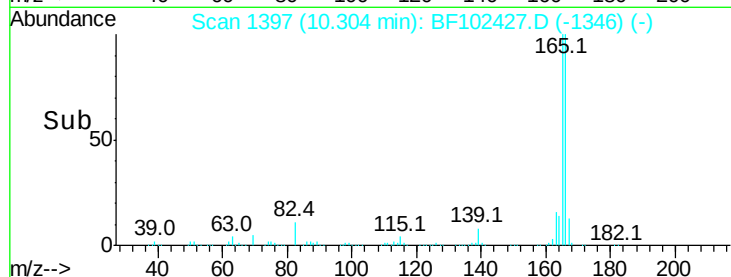
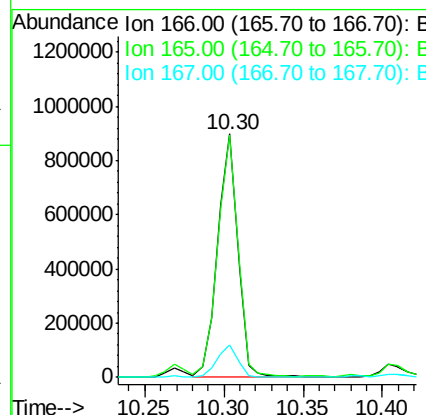
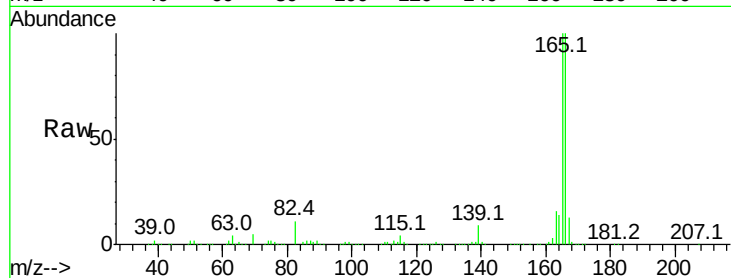
#57
Fluorene
 Concen: 68.689 ng
 RT: 10.30 min Scan# 1397
 Delta R.T. -0.00 min
 Lab File: BF102427.D
 Acq: 25 Jan 2018 15:40

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB70-E-S-8

Tot Ion	Ratio	Lower	Upper
166	100		
165	99.6	79.8	119.8
167	13.2	10.6	16.0

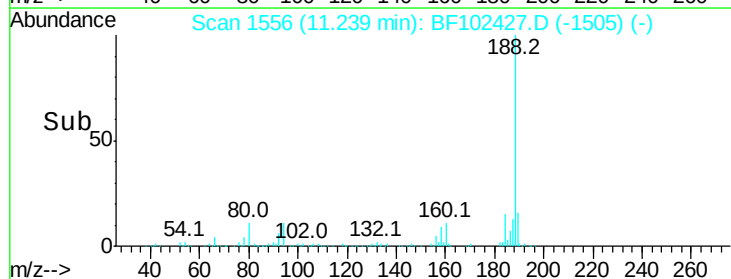
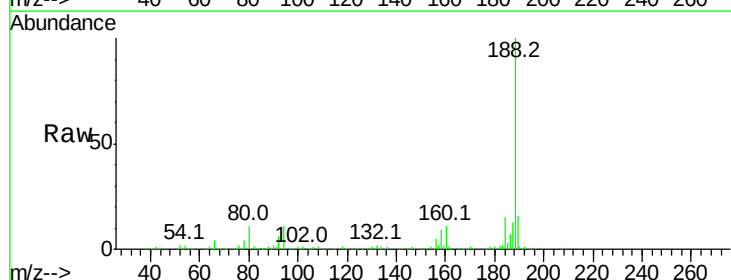
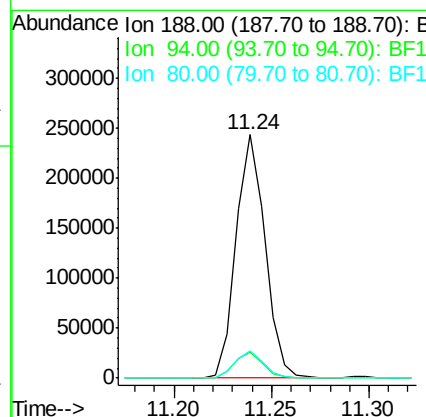
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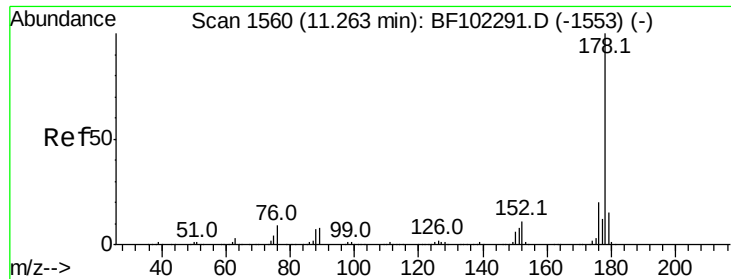
Sohil
 1/25/2018 5:42:28 PM



#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.24 min Scan# 1556
 Delta R.T. -0.00 min
 Lab File: BF102427.D
 Acq: 25 Jan 2018 15:40

Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.5	12.7
80	11.3	9.2	13.8





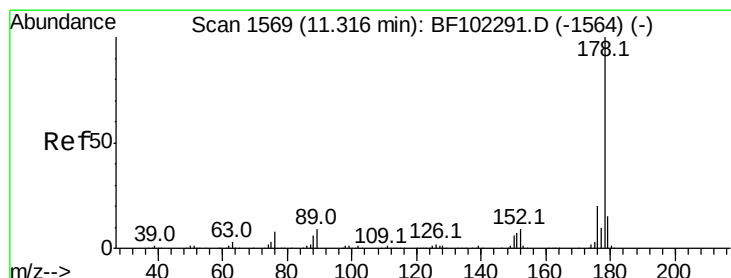
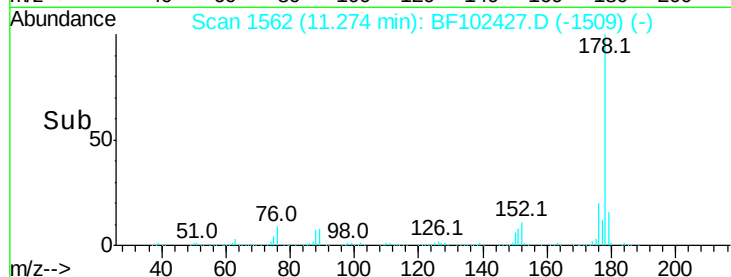
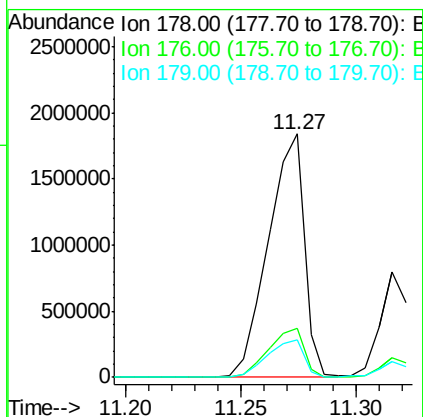
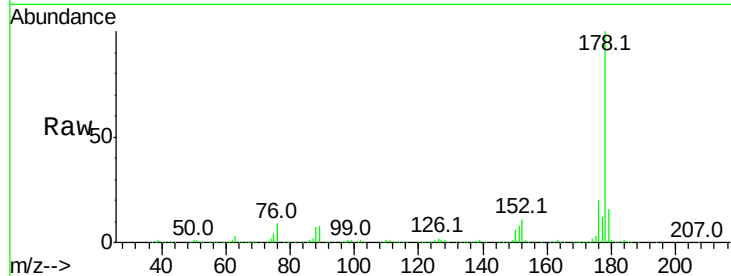
#70
Phenanthrene
Concen: 136.188 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.01 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-S-8

Tot Ion:178 Resp: 1993852
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.8
179 15.6 13.0 19.6

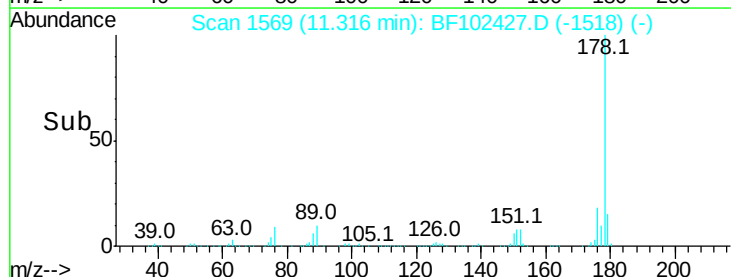
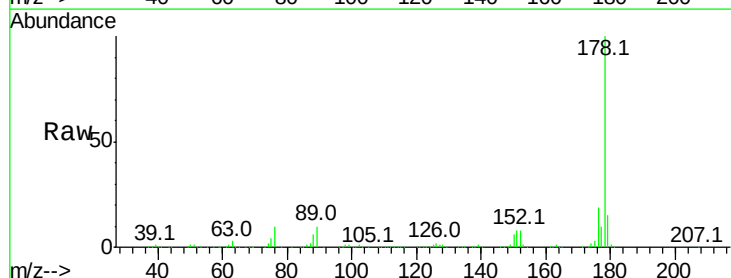
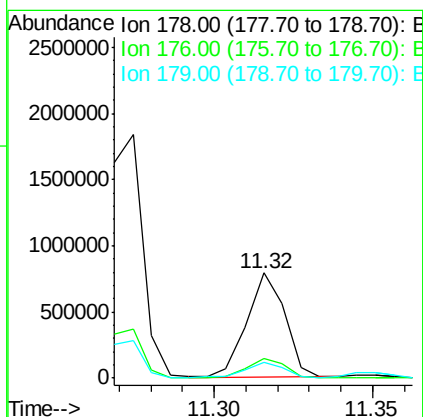
Manual Integrations
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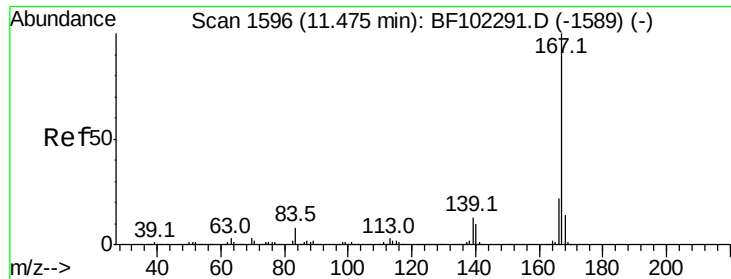
Sohil
1/25/2018 5:42:28 PM



#71
Anthracene
Concen: 43.752 ng
RT: 11.32 min Scan# 1569
Delta R.T. -0.00 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Tgt Ion:178 Resp: 653798
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 15.4 12.6 19.0





#72

Carbazole

Concen: 20.240 ng

RT: 11.47 min Scan# 1596

Delta R.T. -0.00 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Instrument :

BNA_F

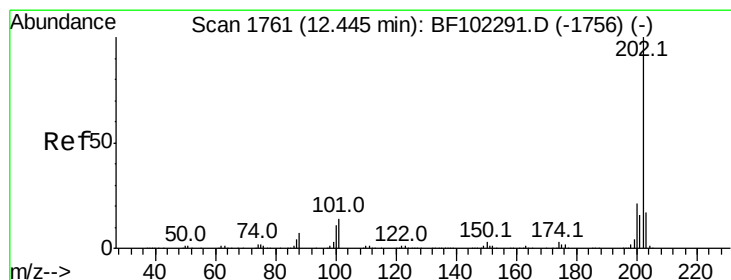
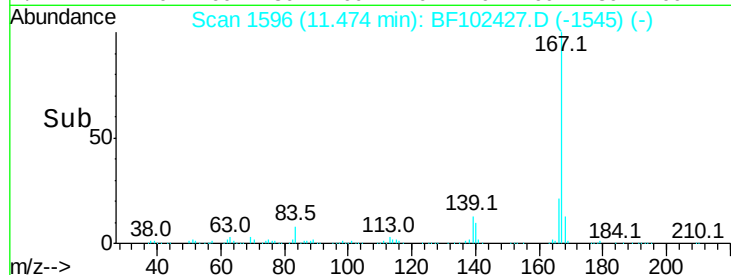
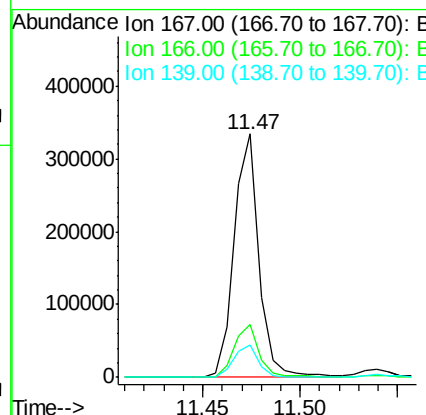
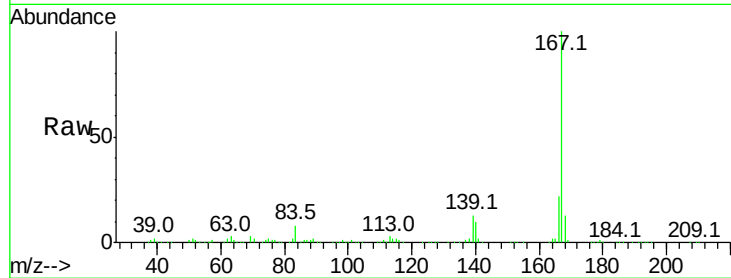
ClientSampleId :

A2-SB70-E-S-8

Tot Ion:	167	Resp:	295069
Ion Ratio	Lower	Upper	
167	100		
166	21.6	17.6	26.4
139	13.1	10.9	16.3

Manual Integrations
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1/25/2018 5:42:28 PM



#74

Fluoranthene

Concen: 92.083 ng

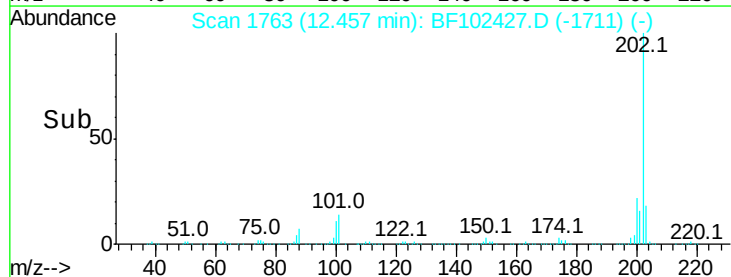
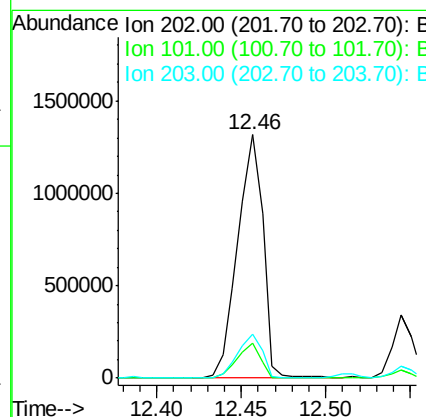
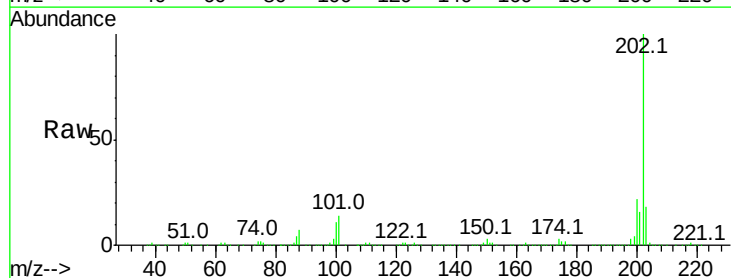
RT: 12.46 min Scan# 1763

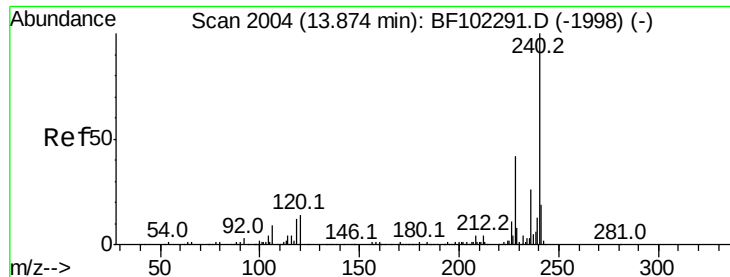
Delta R.T. 0.01 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Tgt Ion:	202	Resp:	1374779
Ion Ratio	Lower	Upper	
202	100		
101	14.3	0.0	34.1
203	18.0	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. -0.00 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Instrument :

BNA_F

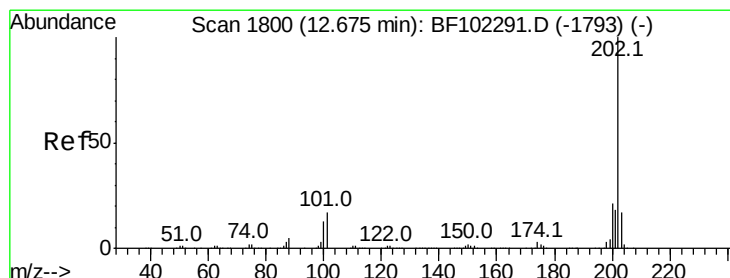
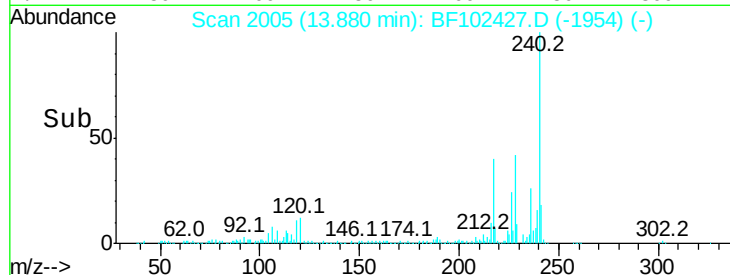
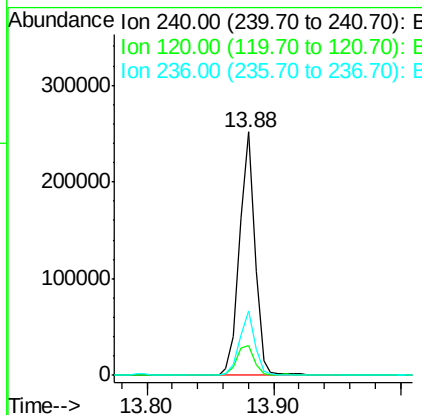
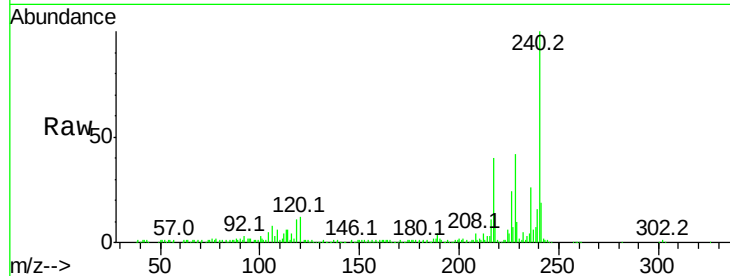
ClientSampleId :

A2-SB70-E-S-8

Tot Ion:	240	Resp:	211098
Ion Ratio	Lower	Upper	
240	100		
120	12.4	9.5	14.3
236	26.3	20.7	31.1

Manual Integrations
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#77

Pyrene

Concen: 65.032 ng

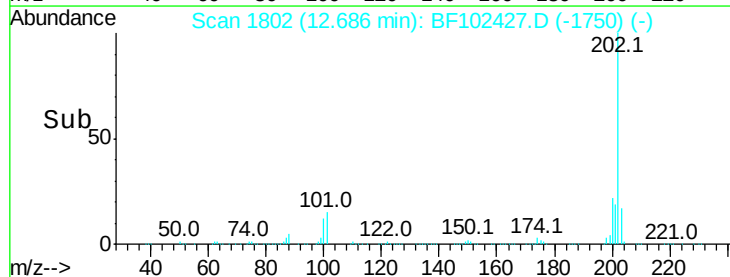
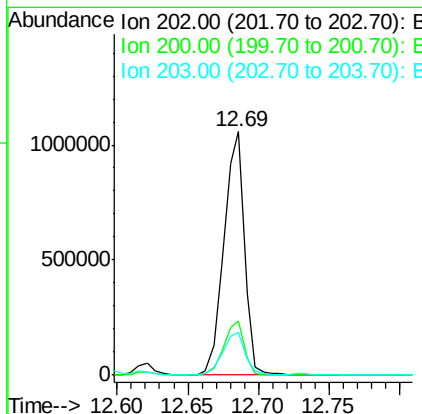
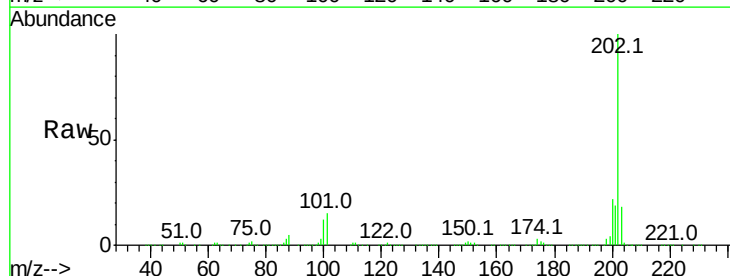
RT: 12.69 min Scan# 1802

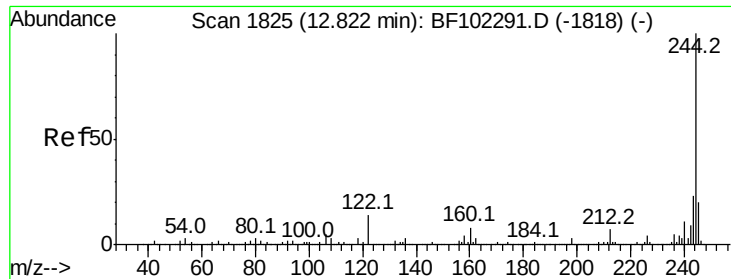
Delta R.T. 0.01 min

Lab File: BF102427.D

Acq: 25 Jan 2018 15:40

Tgt Ion:	202	Resp:	1061413
Ion Ratio	Lower	Upper	
202	100		
200	22.4	17.4	26.2
203	17.7	14.3	21.5





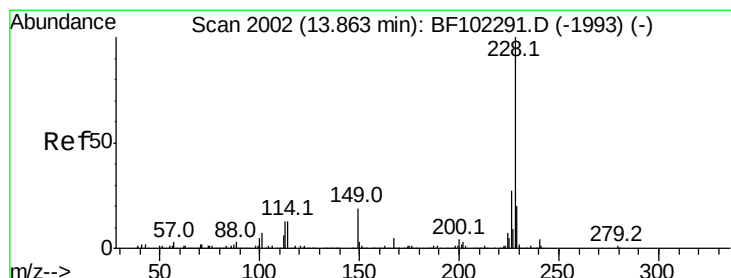
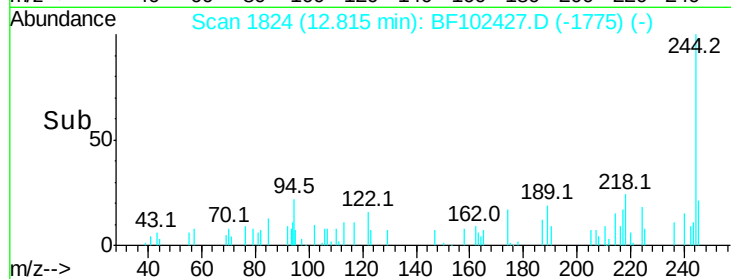
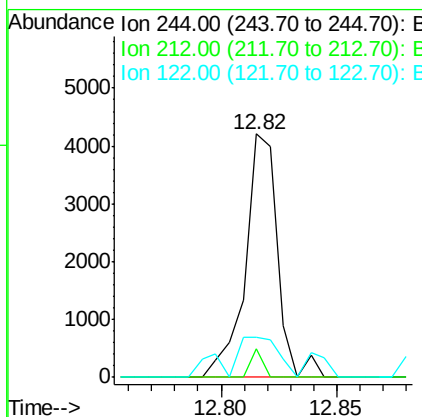
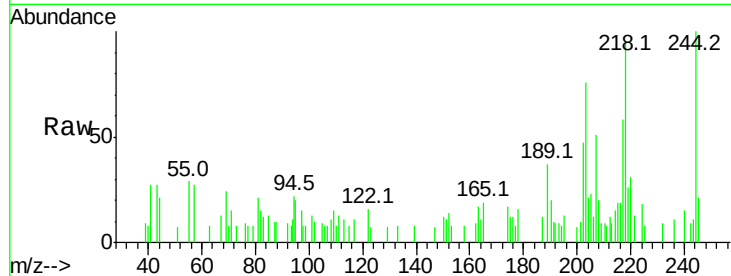
#78
 Terphenyl-d14
 Concen: 0.441 ng
 RT: 12.82 min Scan# 1824
 Delta R.T. -0.01 min
 Lab File: BF102427.D
 Acq: 25 Jan 2018 15:40

Instrument :
 BNA_F
 ClientSampleId :
 A2-SB70-E-S-8

Tot Ion	Ratio	Lower	Upper
244	100		
212	11.7	5.4	8.0#
122	16.3	11.0	16.4

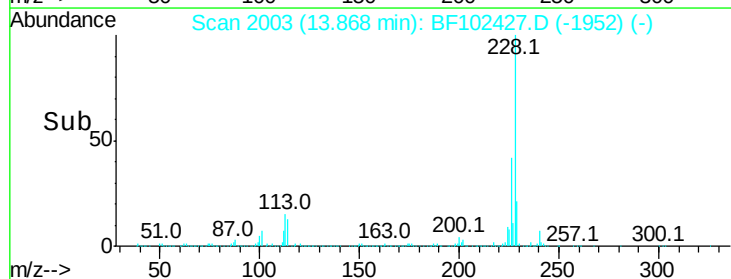
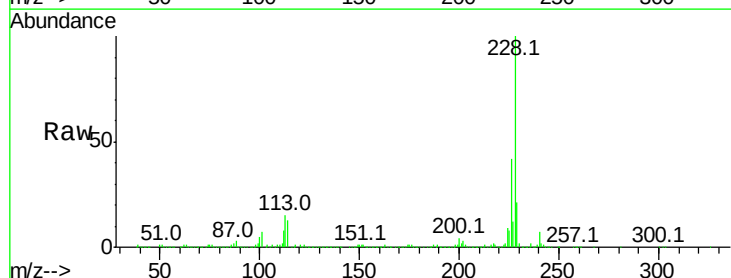
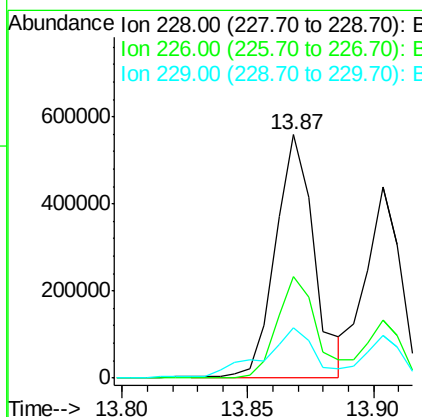
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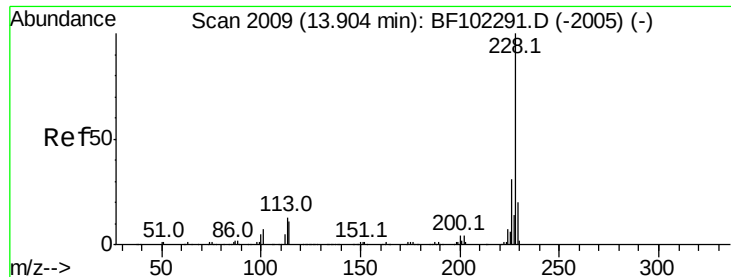
Sohil
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#80
 Benzo(a)anthracene
 Concen: 46.294 ng m
 RT: 13.87 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: BF102427.D
 Acq: 25 Jan 2018 15:40

Tgt Ion	Ratio	Lower	Upper
228	100		
226	41.8	22.6	33.8#
229	20.9	15.8	23.6





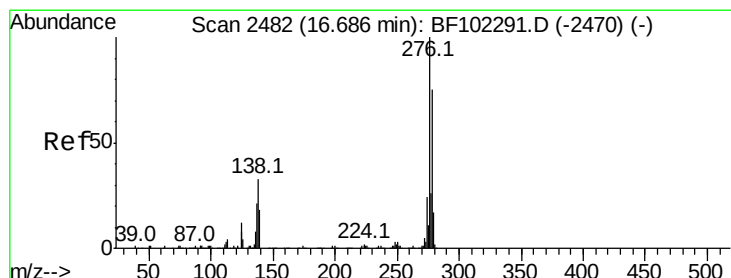
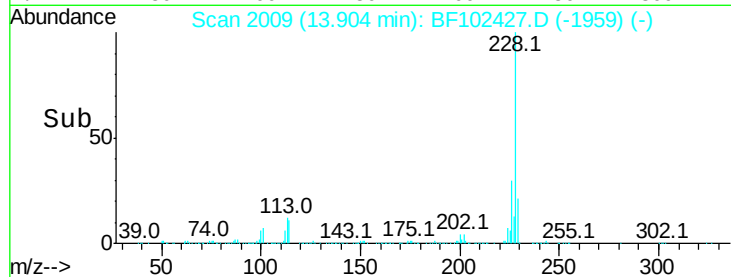
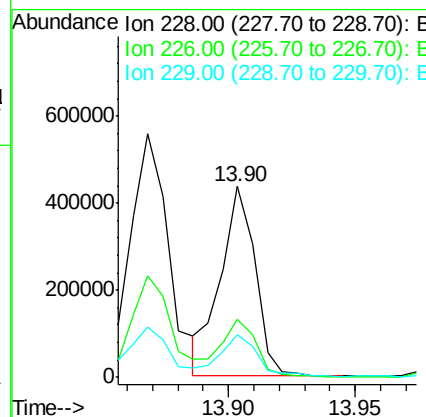
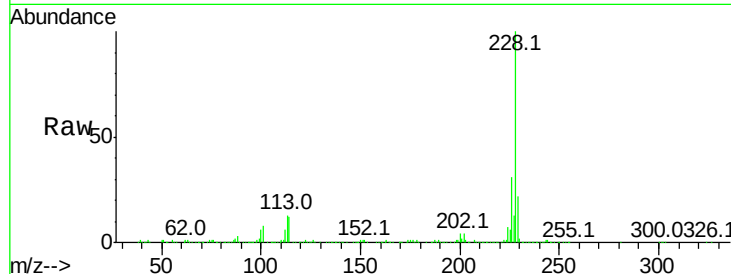
#82
Chrysene
Concen: 31.494 ng
RT: 13.90 min Scan# 2009
Delta R.T. -0.01 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-S-8

Tot Ion:	228	Resp:	415662
Ion Ratio	Lower	Upper	
228	100		
226	30.6	25.0	37.6
229	22.2	16.2	24.4

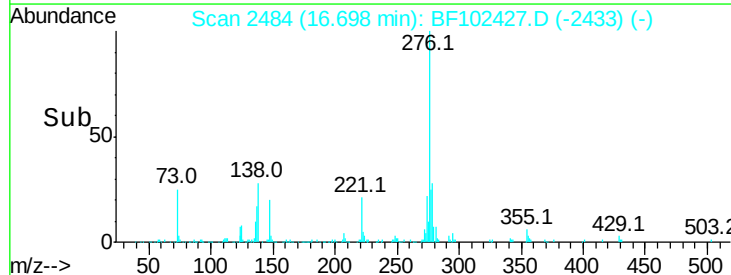
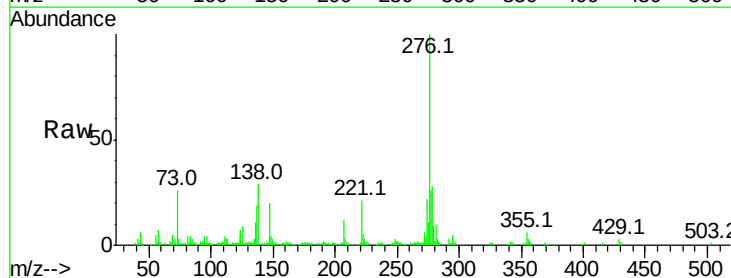
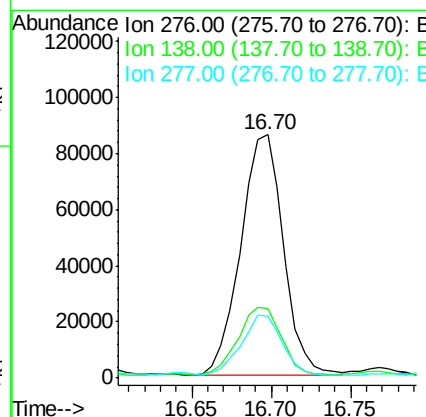
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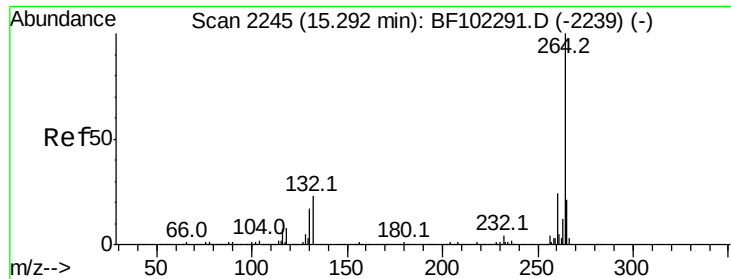
Sohil
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#85
Indeno(1,2,3-cd)pyrene
Concen: 14.718 ng
RT: 16.70 min Scan# 2484
Delta R.T. -0.00 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Tgt Ion:	276	Resp:	160421
Ion Ratio	Lower	Upper	
276	100		
138	29.4	25.0	37.6
277	24.1	20.1	30.1





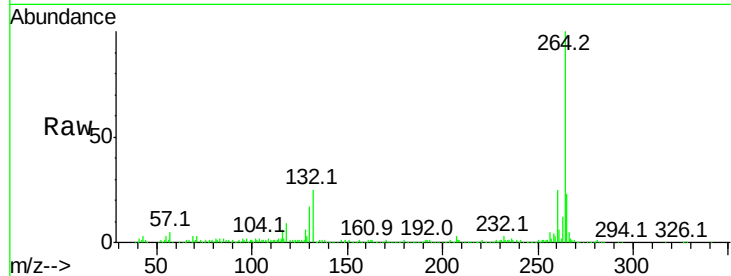
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2247
Delta R.T. 0.01 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-S-8

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.6	19.2	28.8
265	22.8	17.5	26.3

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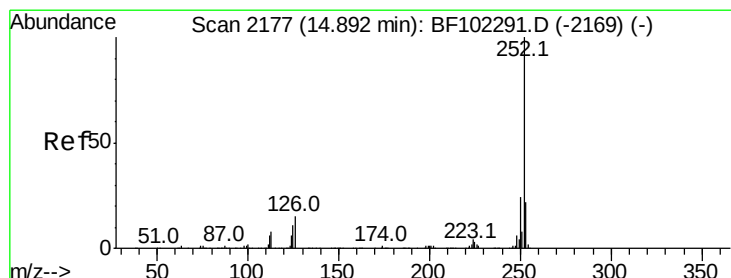
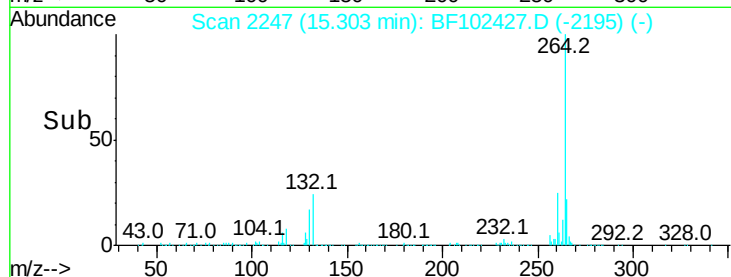
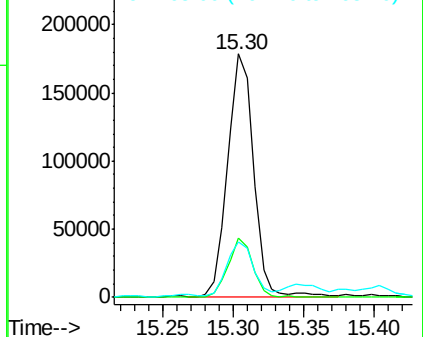


Abundance

Ion 264.00 (263.70 to 264.70): E

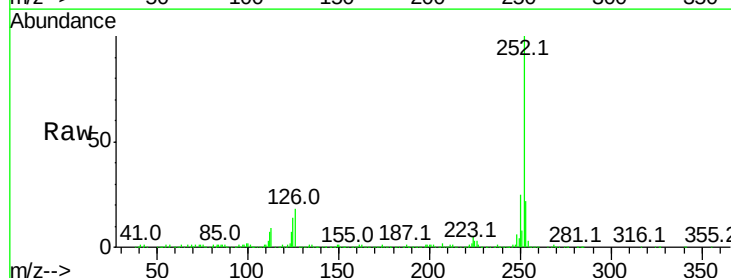
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87
Benzo(b)fluoranthene
Concen: 36.276 ng m
RT: 14.90 min Scan# 2178
Delta R.T. 0.01 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.0	25.6
125	14.1	9.0	13.6

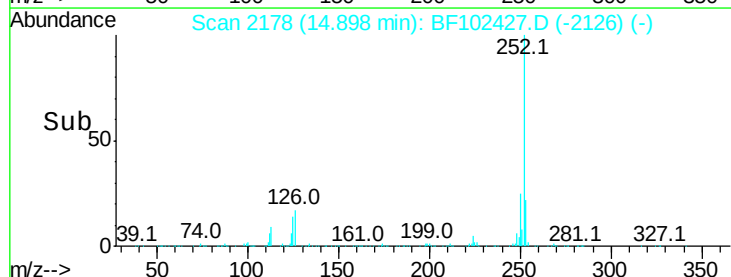
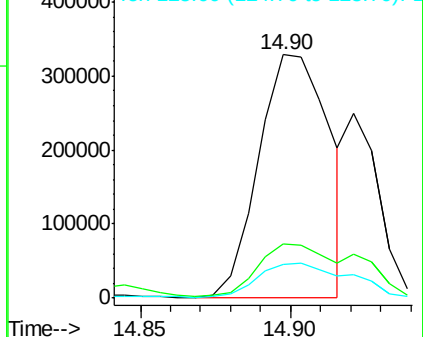


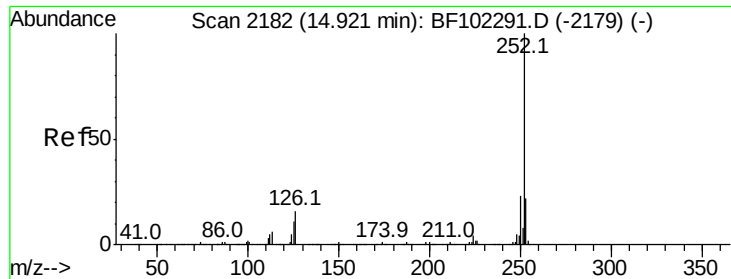
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





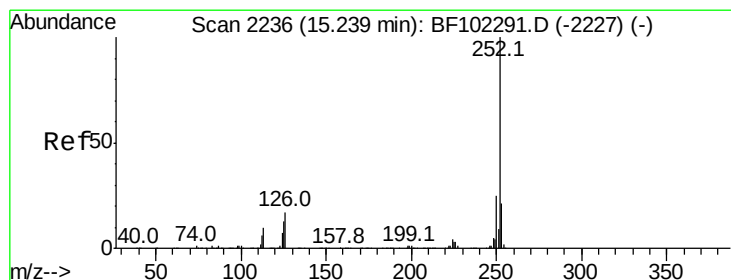
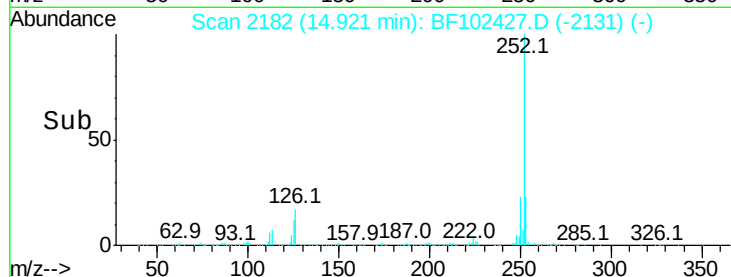
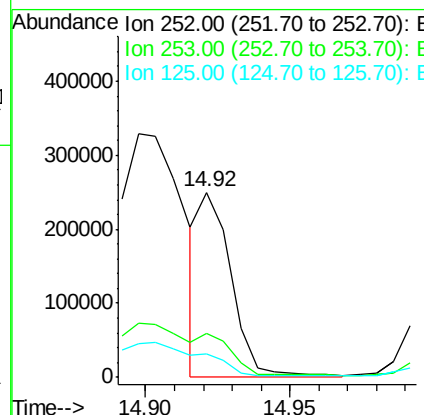
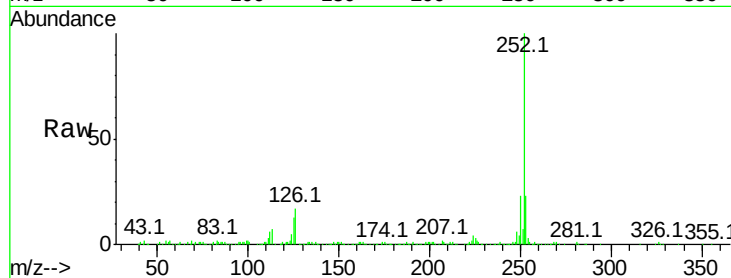
#88
Benzo(k)fluoranthene
Concen: 14.001 ng m
RT: 14.92 min Scan# 2182
Delta R.T. -0.00 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-S-8

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.9	26.9
125	12.5	10.2	15.2

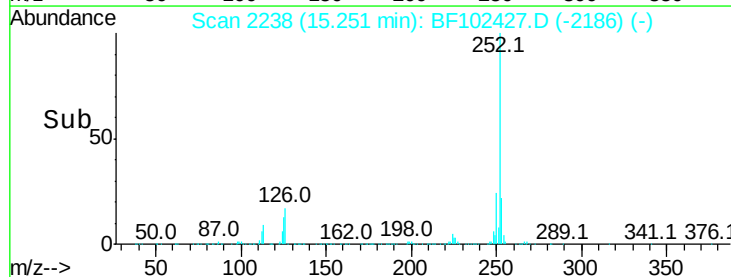
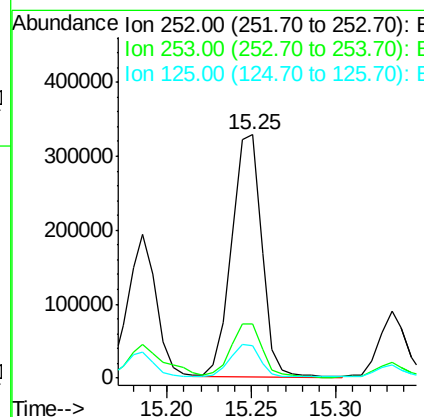
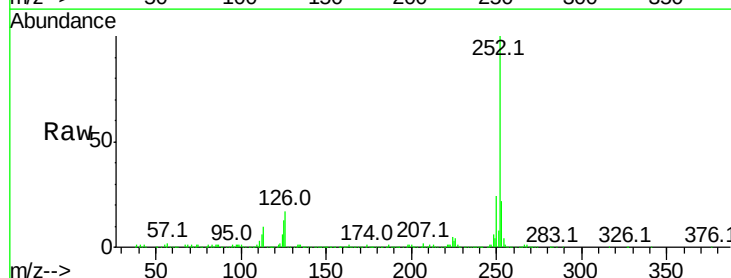
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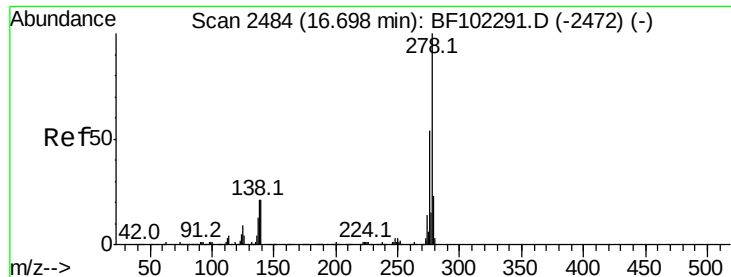
Sohil
1/25/2018 5:42:28 PM



#89
Benzo(a)pyrene
Concen: 30.812 ng
RT: 15.25 min Scan# 2238
Delta R.T. 0.01 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.1	25.7
125	13.2	9.8	14.6





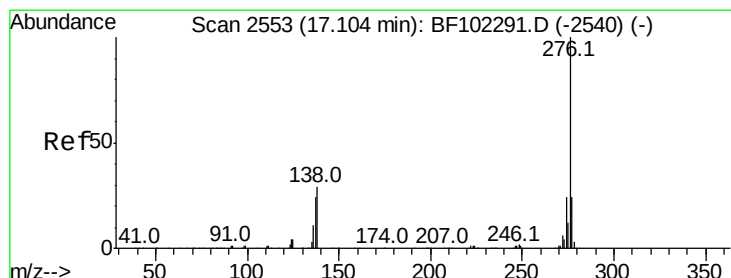
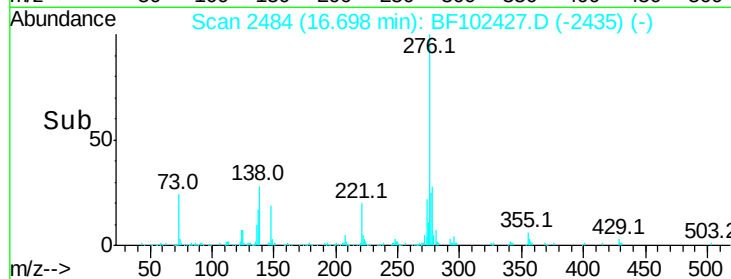
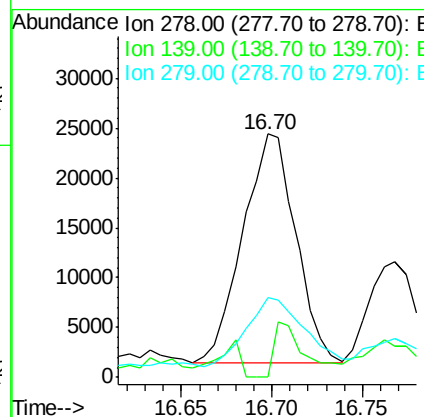
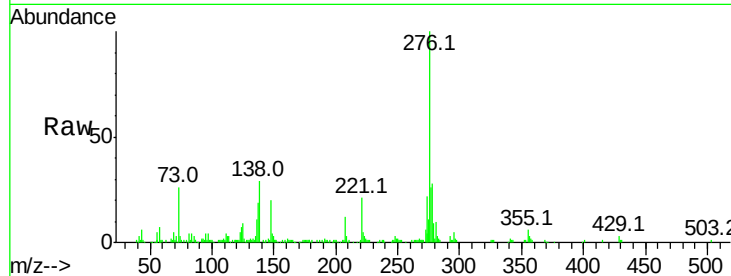
#90
Dibenzo(a,h)anthracene
Concen: 4.342 ng m
RT: 16.70 min Scan# 2484
Delta R.T. -0.01 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Instrument :
BNA_F
ClientSampleId :
A2-SB70-E-S-8

Tot Ion	Ratio	Lower	Upper
278	100		
139	0.0	15.9	23.9#
279	32.7	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/25/2018 5:42:28 PM



#91
Benzo(g,h,i)perylene
Concen: 12.623 ng
RT: 17.12 min Scan# 2555
Delta R.T. -0.00 min
Lab File: BF102427.D
Acq: 25 Jan 2018 15:40

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	17.9	26.9
138	29.1	21.8	32.8

