

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\
 Data File : BF102220.D
 Acq On : 19 Jan 2018 14:12
 Operator : SJ/JU
 Sample : J1200-04 20X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB74 BOT-N 10

Manual Integrations
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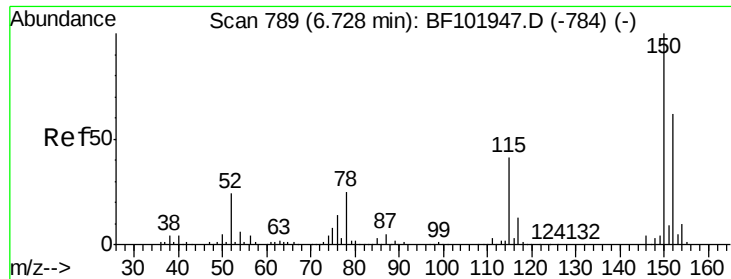
Quant Time: Jan 19 14:47:35 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jan 19 13:31:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.72	152	138392	20.00	ng	0.00
21) Naphthalene-d8	8.01	136	570617	20.00	ng	0.00
38) Acenaphthene-d10	9.76	164	245845	20.00	ng	0.00
63) Phenanthrene-d10	11.25	188	390261	20.00	ng	0.00
75) Chrysene-d12	13.88	240	260124	20.00	ng	0.00
86) Perylene-d12	15.30	264	240448	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.32	112	60215	6.14	ng	-0.01
7) Phenol-d6	6.35	99	73393	6.28	ng	-0.02
23) Nitrobenzene-d5	7.28	82	38725	3.99	ng	-0.02
41) 2,4,6-Tribromophenol	10.55	330	11078	5.16	ng	0.00
44) 2-Fluorobiphenyl	9.07	172	57167	3.63	ng	-0.01
78) Terphenyl-d14	12.82	244	46159	3.68	ng	0.00

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.04	128	3372978	118.297	ng	99
37) 2-Methylnaphthalene	8.72	142	303892	16.190	ng	99
45) 1,1'-Biphenyl	9.18	154	106902	4.920	ng	97
48) Acenaphthylene	9.62	152	362218	13.545	ng	100
51) Acenaphthene	9.79	154	360735	22.225	ng	97
54) Dibenzofuran	9.96	168	468988	21.053	ng	100
57) Fluorene	10.30	166	555444	36.069	ng	99
70) Phenanthrene	11.27	178	1978033	86.769	ng	99
71) Anthracene	11.32	178	730915	31.614	ng	99
72) Carbazole	11.47	167	241861	10.643	ng	99
74) Fluoranthene	12.46	202	1492031	66.523	ng	99
77) Pylene	12.69	202	1097977	47.752	ng	99
80) Benzo(a)anthracene	13.87	228	505165m	30.438	ng	
82) Chrysene	13.90	228	401056	23.175	ng	98
85) Indeno(1,2,3-cd)pyrene	16.67	276	167669	13.312	ng	94
87) Benzo(b)fluoranthene	14.89	252	486443m	31.027	ng	
88) Benzo(k)fluoranthene	14.92	252	154625m	10.224	ng	
89) Benzo(a)pyrene	15.24	252	360893	25.581	ng	98
90) Dibenz(a,h)anthracene	16.68	278	44264m	3.932	ng	
91) Benzo(a,h,i)perylene	17.09	276	135775	11.972	ng	96

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



#1

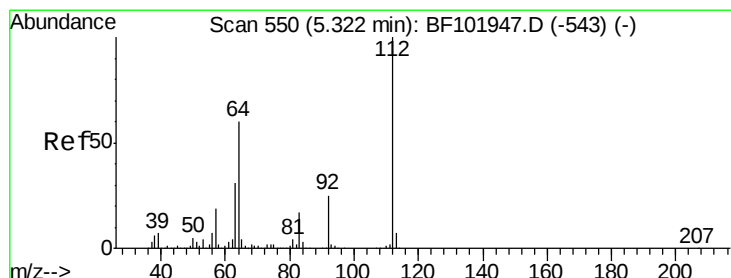
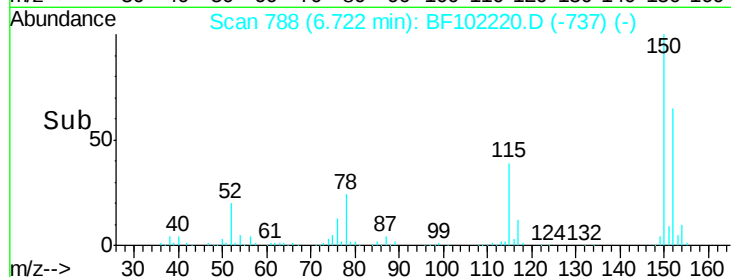
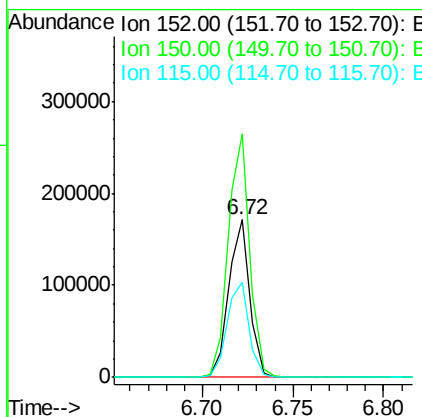
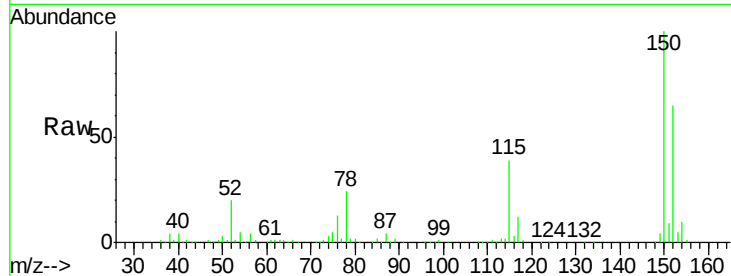
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.72 min Scan# 788
Delta R.T. 0.00 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Instrument :
BNA_F
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
152	100		
150	154.8	124.6	186.8
115	60.7	50.1	75.1

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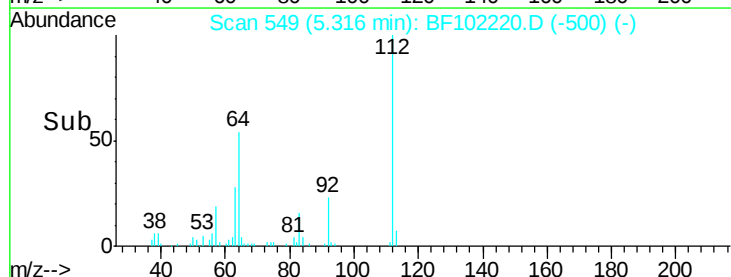
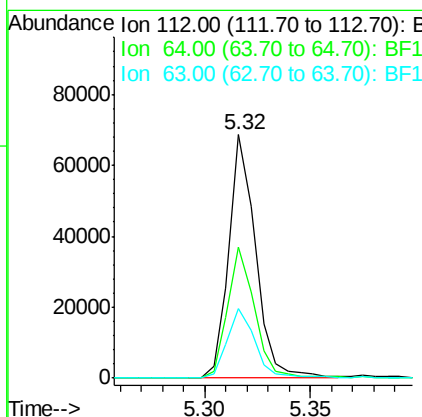
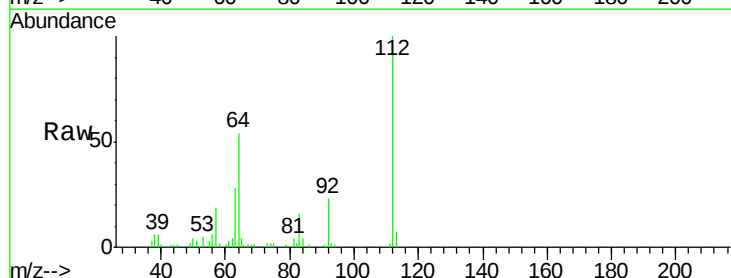
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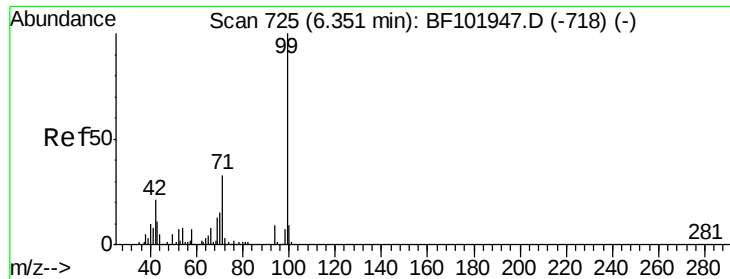


#5

2-Fluorophenol
Concen: 6.144 ng
RT: 5.32 min Scan# 549
Delta R.T. -0.01 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.0	47.9	71.9
63	28.3	23.7	35.5





#7

Phenol-d6

Concen: 6.277 ng

RT: 6.35 min Scan# 725

Delta R.T. -0.02 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Instrument :

BNA_F

ClientSampleId :

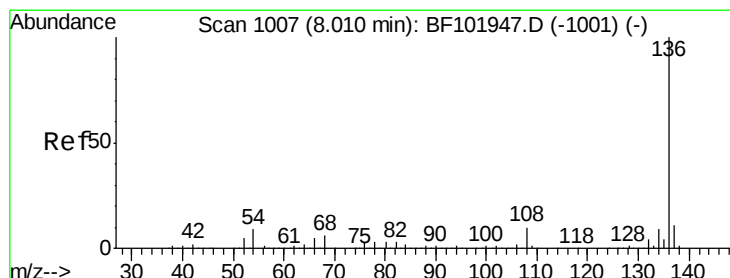
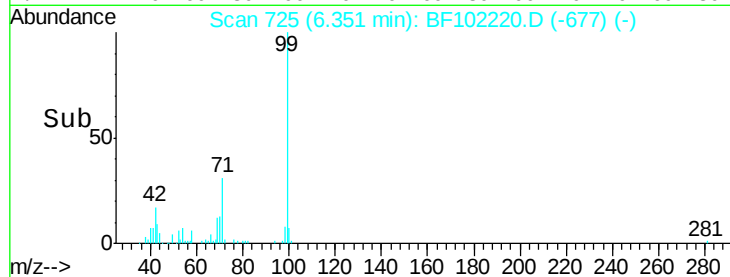
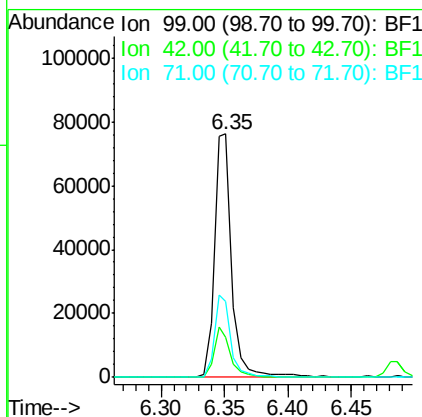
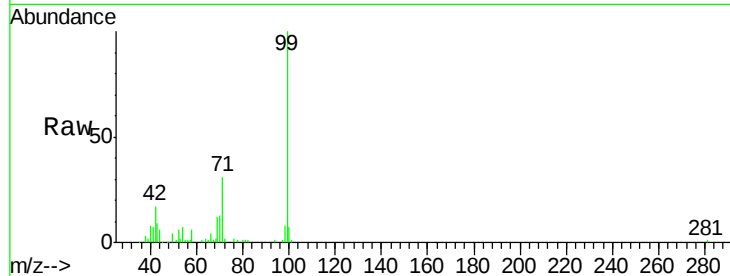
A2 SB74 BOT-N 10

Tot Ion:	99	Resp:	73393
Ion Ratio	Lower	Upper	
99	100		
42	16.5	14.5	21.7
71	31.4	25.4	38.0

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#21

Naphthalene-d8

Concen: 20.000 ng

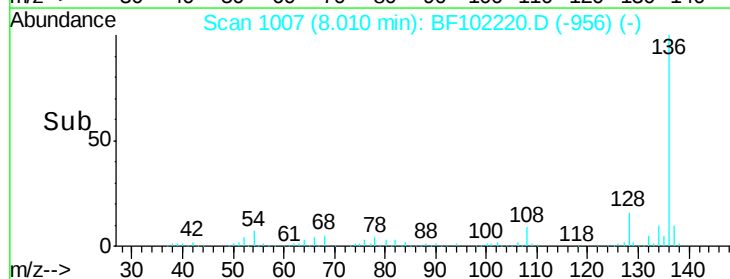
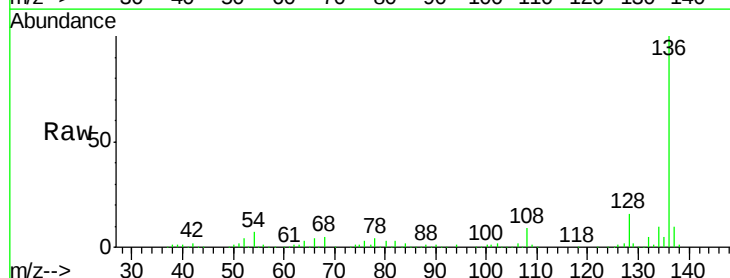
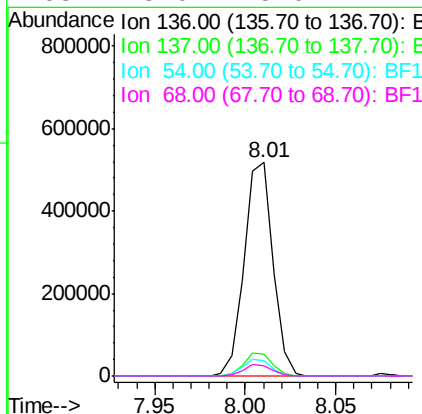
RT: 8.01 min Scan# 1007

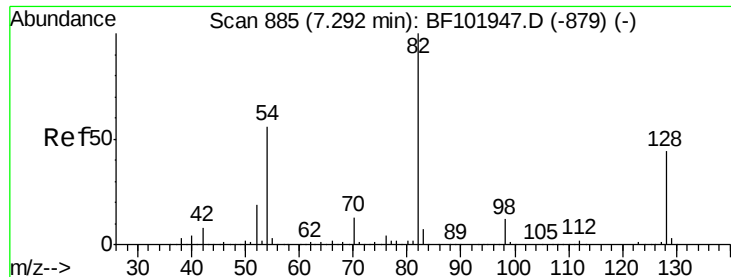
Delta R.T. 0.00 min

Lab File: BF102220.D

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Tgt Ion:	136	Resp:	570617
Ion Ratio	Lower	Upper	
136	100		
137	10.4	8.9	13.3
54	7.4	6.6	9.8
68	5.0	5.0	7.4





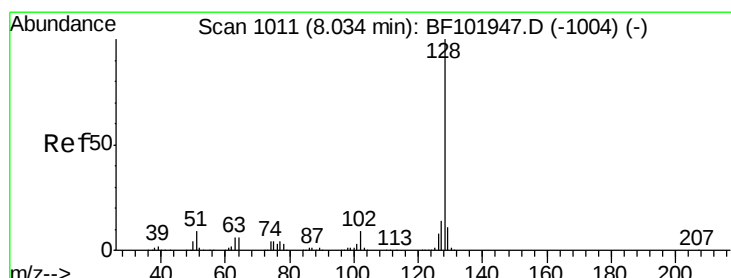
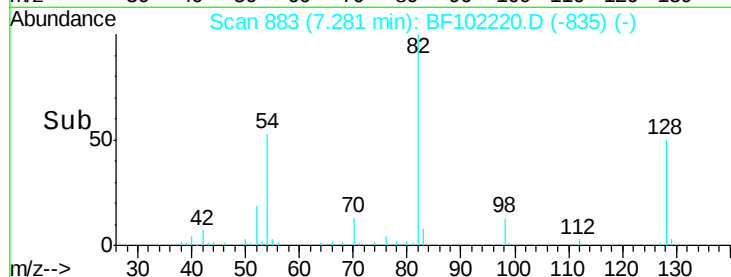
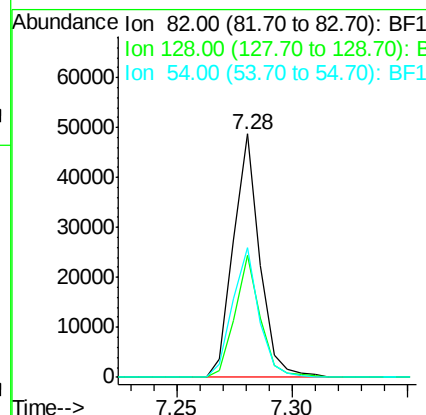
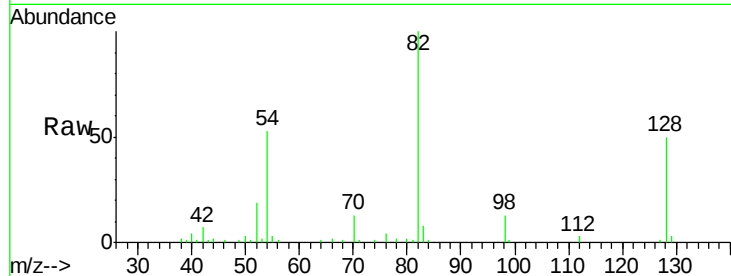
#23
Nitrobenzene-d5
Concen: 3.988 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.02 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10

Tot Ion	Ratio	Lower	Upper
82	100		
128	50.2	36.1	54.1
54	53.4	41.4	62.2

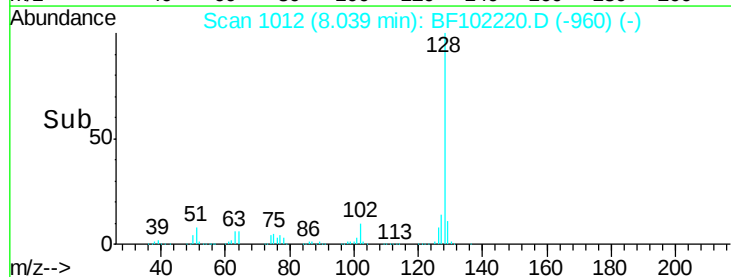
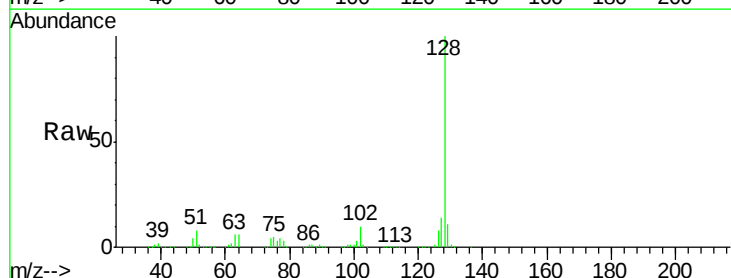
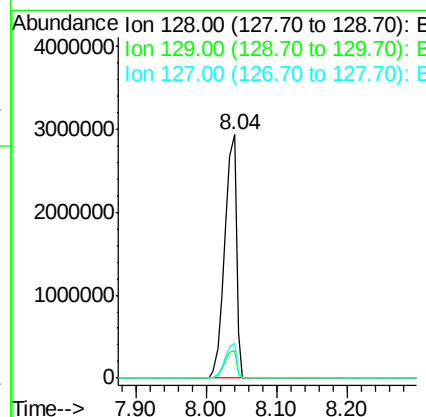
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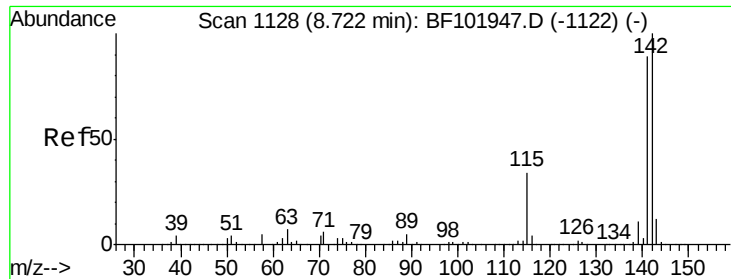
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#31
Naphthalene
Concen: 118.297 ng
RT: 8.04 min Scan# 1012
Delta R.T. 0.01 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	14.3	10.9	16.3





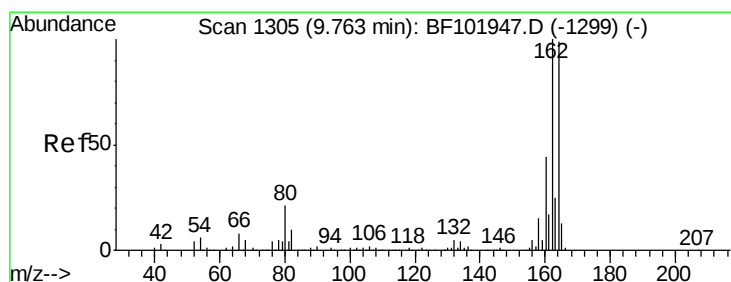
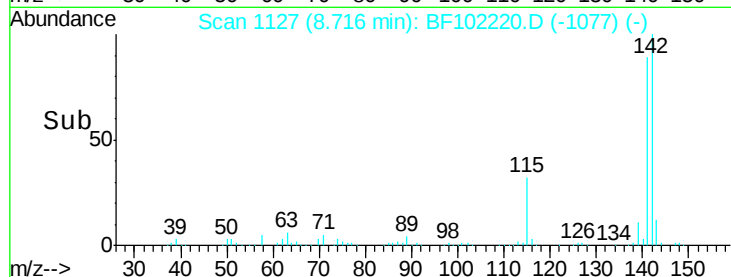
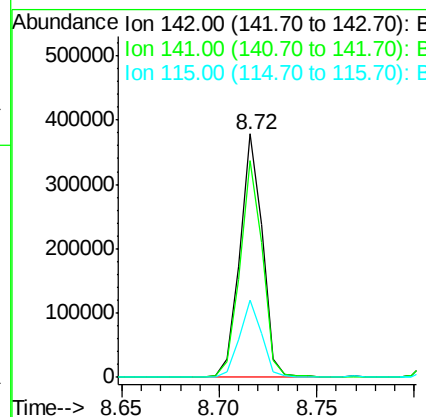
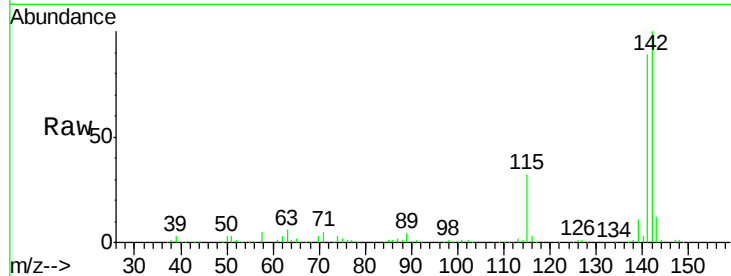
#37
2-Methylnaphthalene
Concen: 16.190 ng
RT: 8.72 min Scan# 1127
Delta R.T. -0.01 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10

Tot Ion	Ratio	Resp	Lower	Upper
142	100	303892		
141	89.1	70.8	106.2	
115	31.9	26.1	39.1	

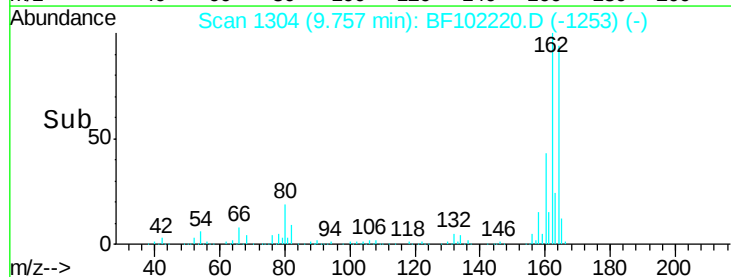
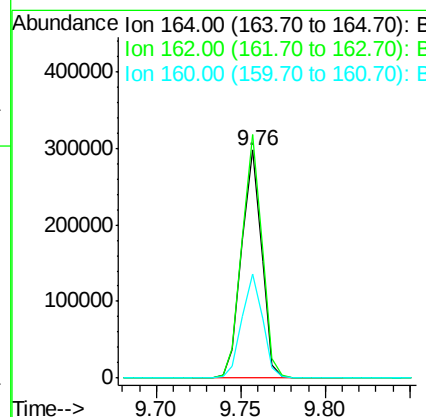
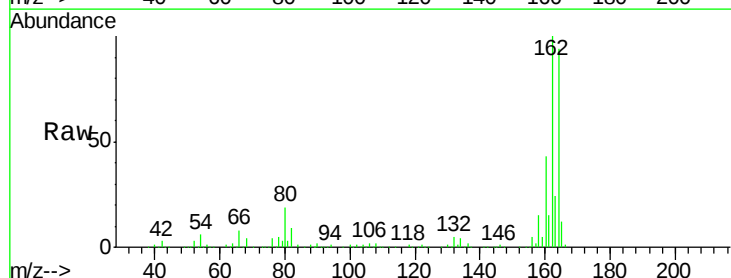
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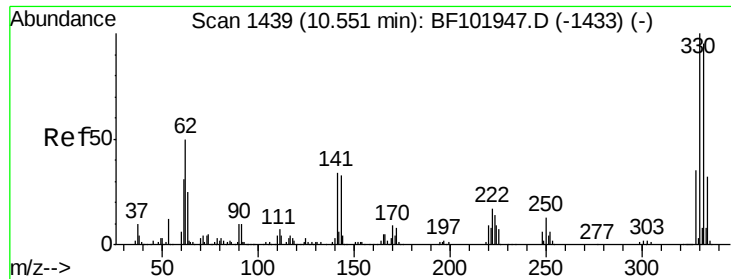
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#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.76 min Scan# 1304
Delta R.T. 0.00 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	245845		
162	106.8	86.1	129.1	
160	45.7	38.3	57.5	





#41

2,4,6-Tribromophenol

Concen: 5.163 ng

RT: 10.55 min Scan# 1438

Delta R.T. -0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Instrument :

BNA_F

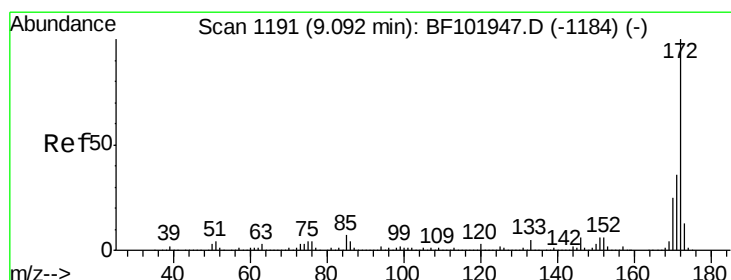
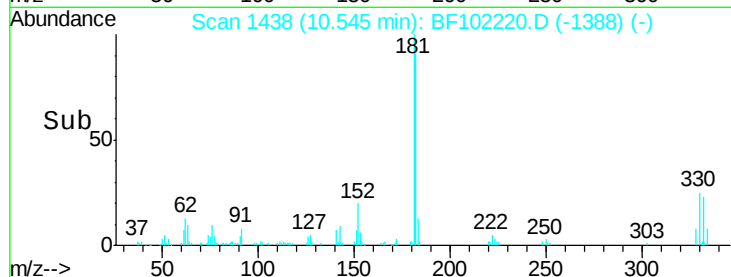
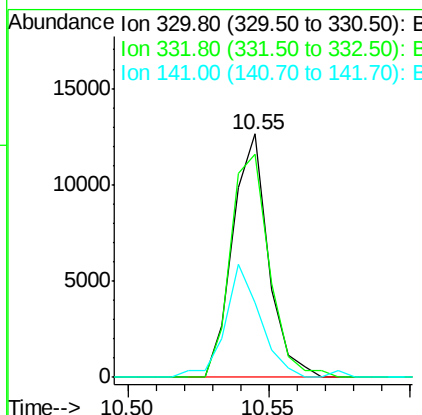
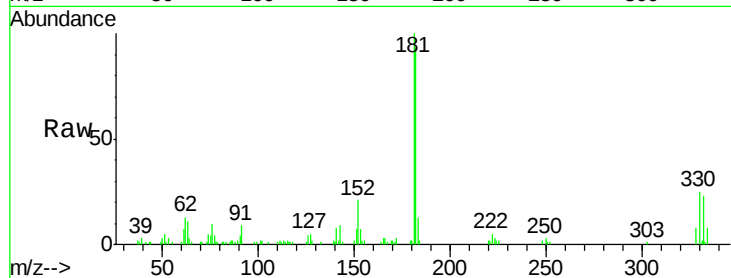
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
330	100		
332	100.0	77.0	115.6
141	45.6	29.9	44.9#

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#44

2-Fluorobiphenyl

Concen: 3.633 ng

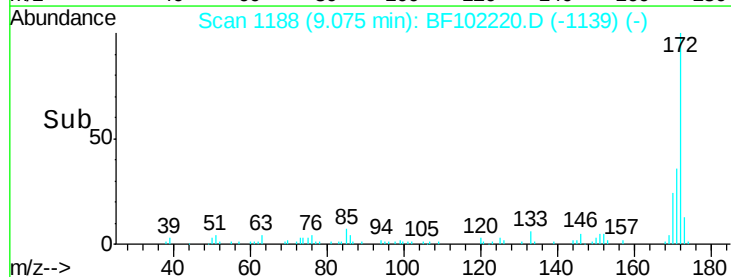
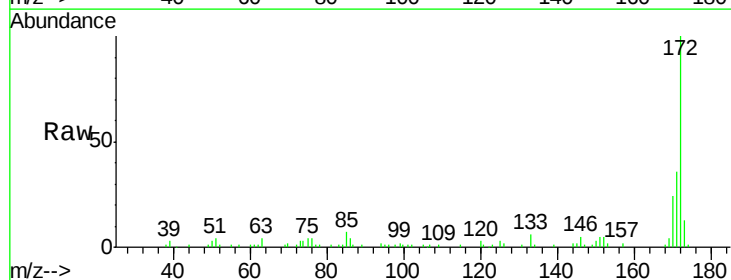
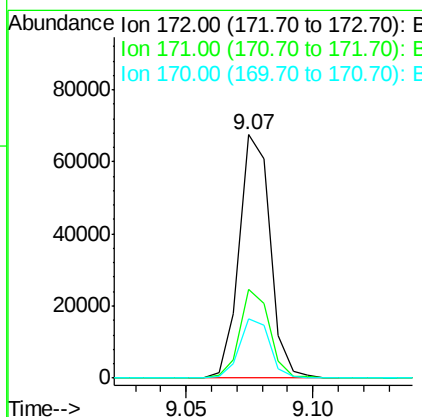
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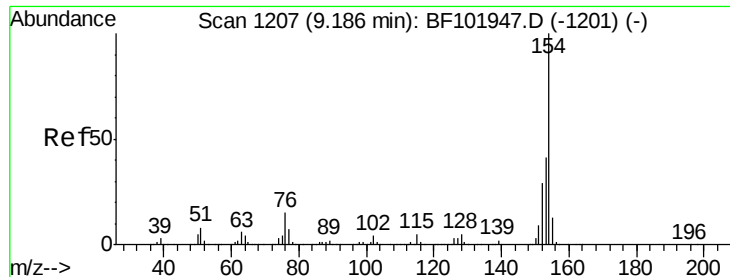
Delta R.T. -0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.2	29.7	44.5
170	24.3	19.6	29.4





#45

1,1'-Biphenyl

Concen: 4.920 ng

RT: 9.18 min Scan# 1206

Delta R.T. -0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Instrument :

BNA_F

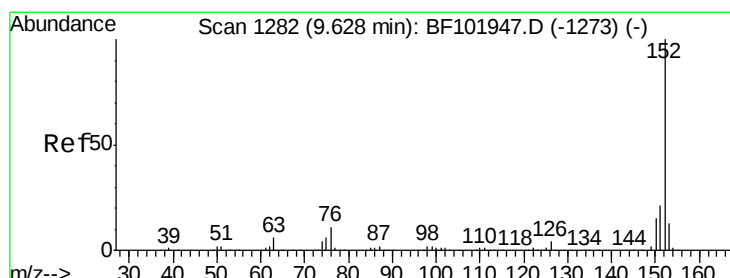
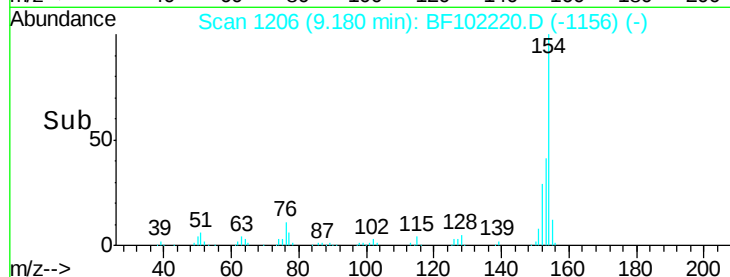
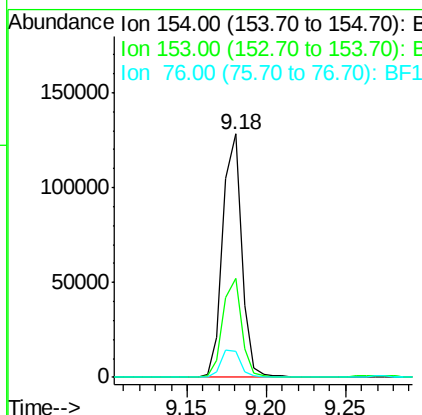
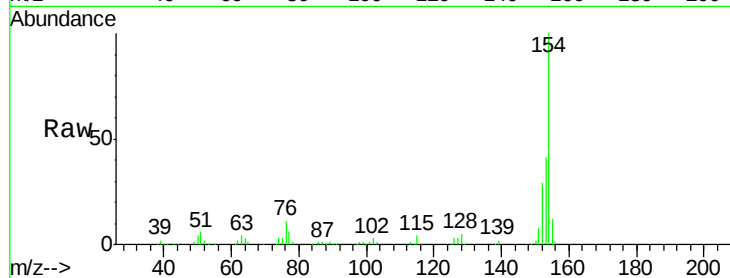
ClientSampleId :

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Tot Ion:	154	Resp:	106902
Ion Ratio	Lower	Upper	
154	100		
153	40.8	21.3	61.3
76	10.6	0.0	34.0

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#48

Acenaphthylene

Concen: 13.545 ng

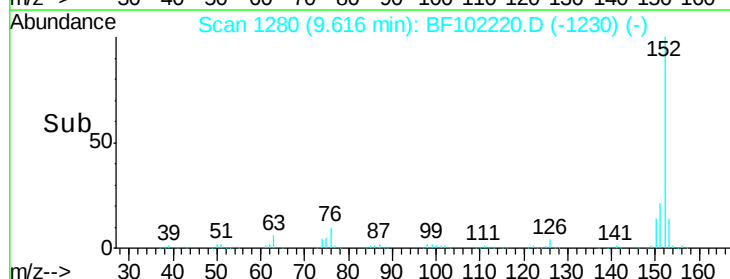
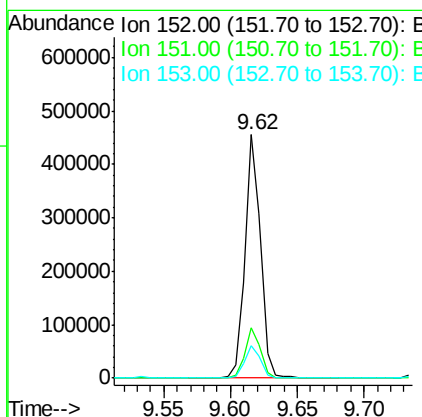
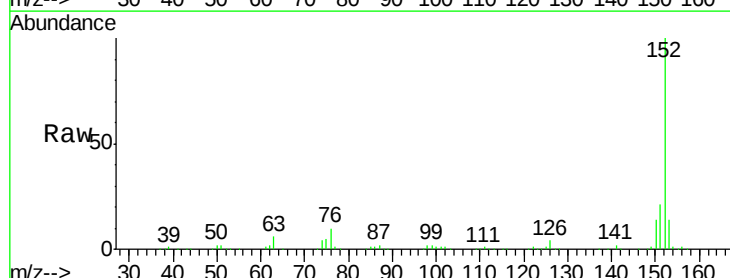
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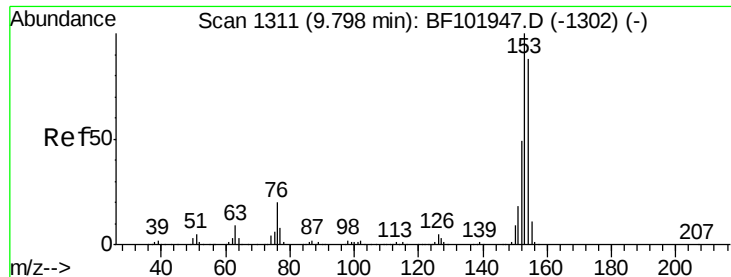
Delta R.T. -0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Tgt Ion:	152	Resp:	362218
Ion Ratio	Lower	Upper	
152	100		
151	20.6	16.3	24.5
153	13.5	10.7	16.1





#51

Acenaphthene

Concen: 22.225 ng

RT: 9.79 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Instrument :

BNA_F

ClientSampleId :

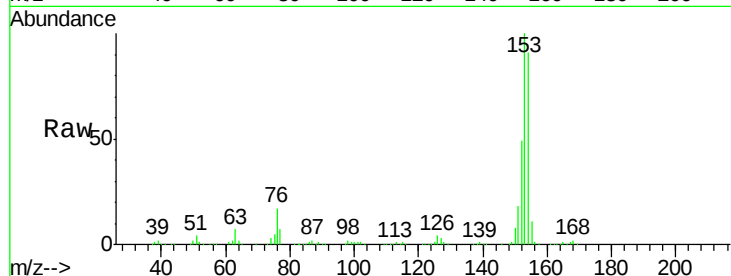
A2 SB74 BOT-N 10

Tot Ion:	154	Resp:	360735
Ion Ratio	Lower	Upper	
154	100		
153	109.9	91.2	136.8
152	53.4	43.8	65.8

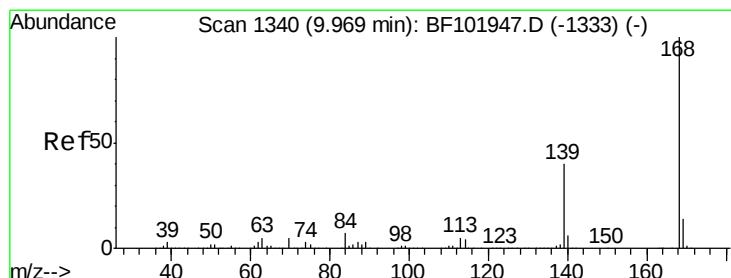
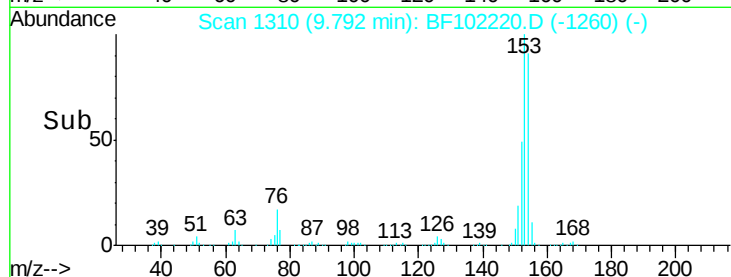
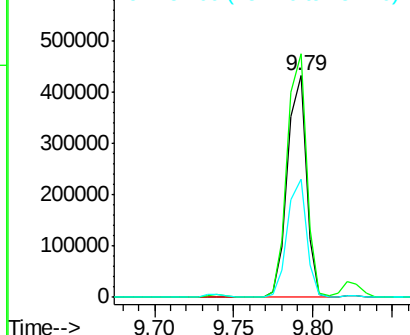
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Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 21.053 ng

RT: 9.96 min Scan# 1339

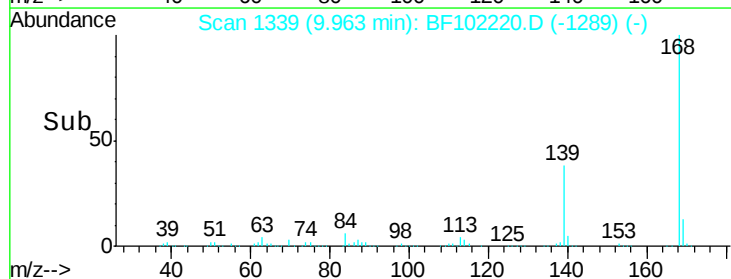
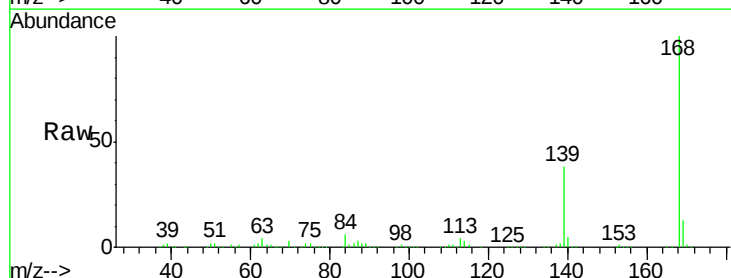
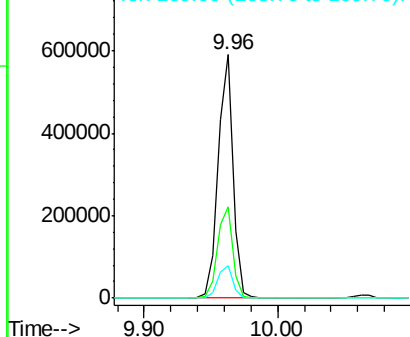
Delta R.T. -0.01 min

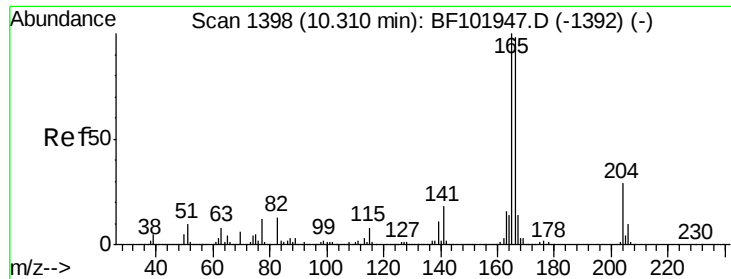
Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Tgt Ion:	168	Resp:	468988
Ion Ratio	Lower	Upper	
168	100		
139	37.7	30.1	45.1
169	13.4	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: 36.069 ng

RT: 10.30 min Scan# 1397

Delta R.T. -0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Instrument :

BNA_F

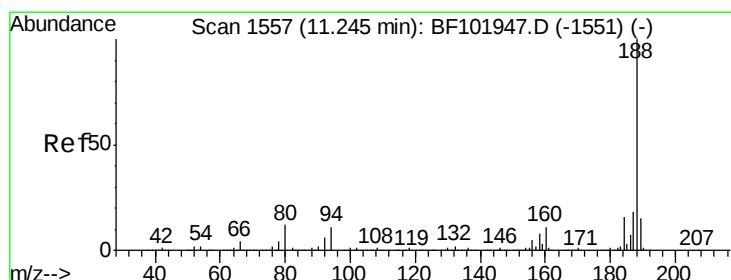
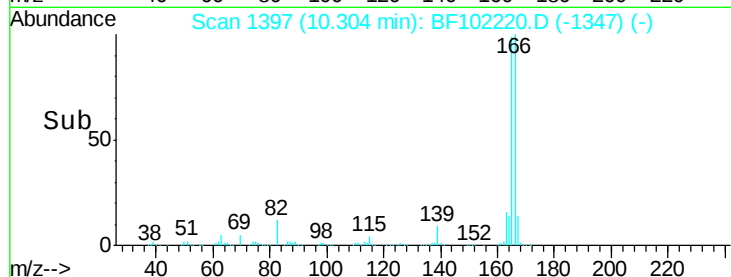
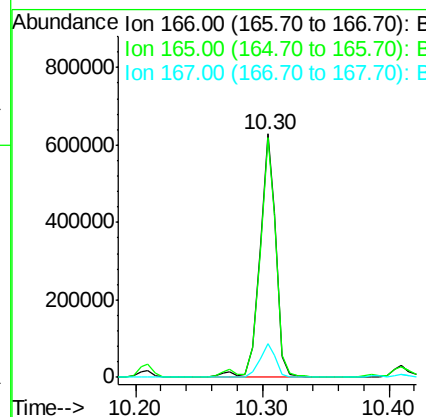
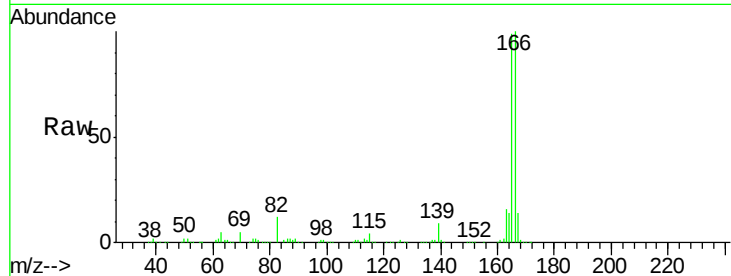
ClientSampleId :

A2 SB74 BOT-N 10

Tot Ion	Ion	Ratio	Resp	Lower	Upper
166	100		555444		
165	98.7	79.8	119.8		
167	13.8	10.6	16.0		

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1/22/2018 5:24:09 PM



#63

Phenanthrene-d10

Concen: 20.000 ng

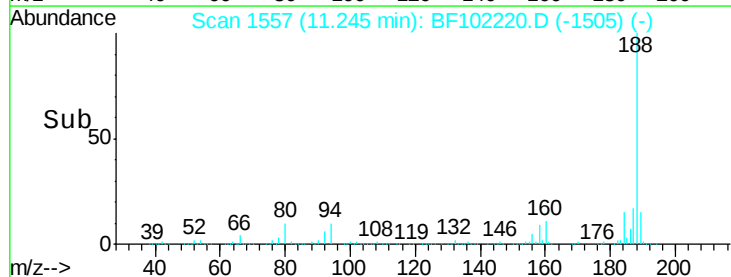
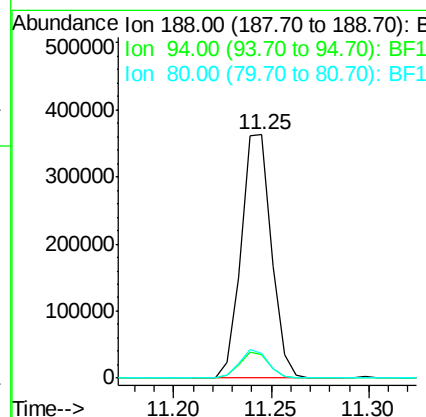
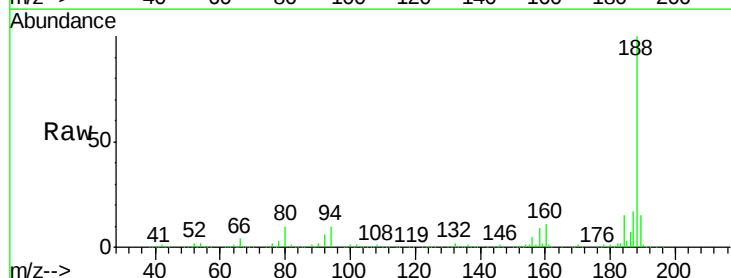
RT: 11.25 min Scan# 1557

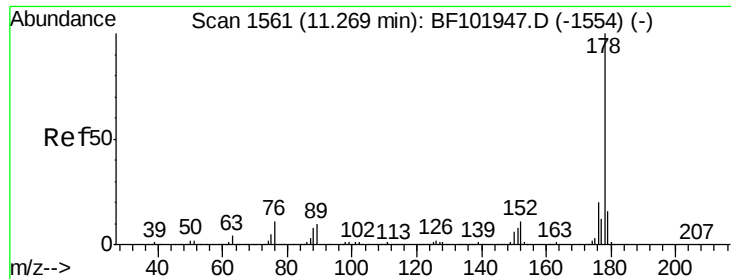
Delta R.T. 0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		390261		
94	9.9	8.5	12.7		
80	10.0	9.2	13.8		





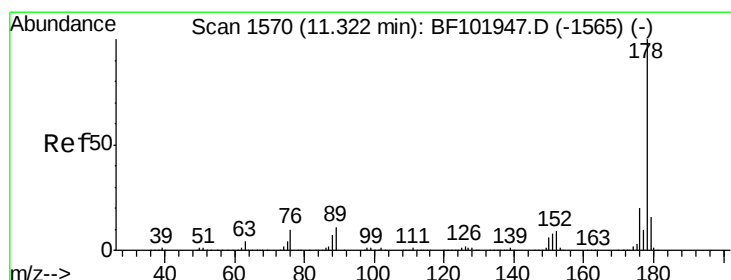
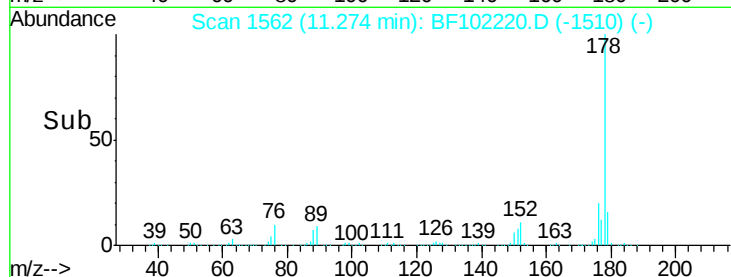
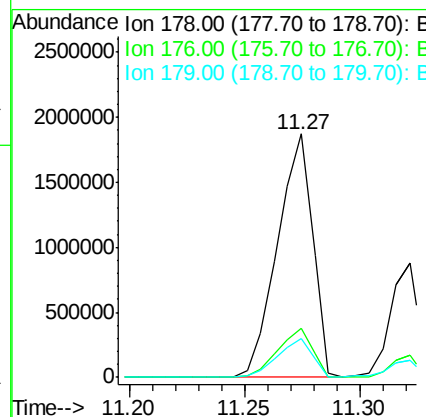
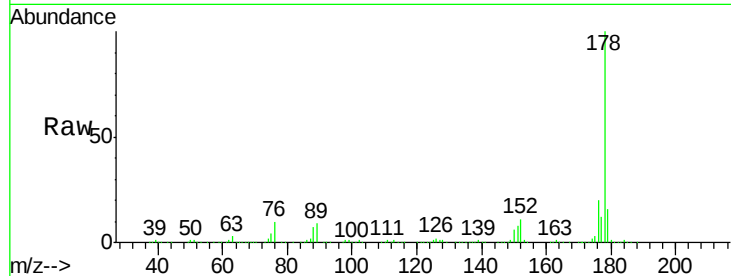
#70
Phenanthrene
Concen: 86.769 ng
RT: 11.27 min Scan# 1562
Delta R.T. 0.01 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10

Tot Ion:178 Resp: 1978033
Ion Ratio Lower Upper
178 100
176 20.2 15.8 23.8
179 15.8 13.0 19.6

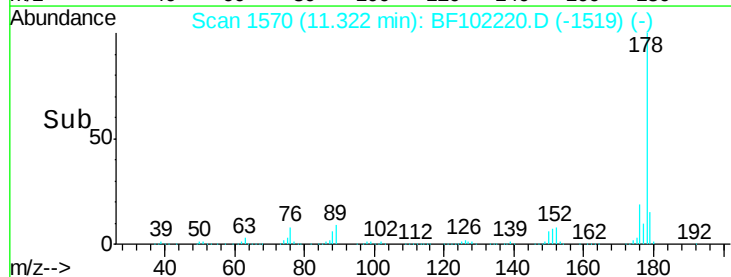
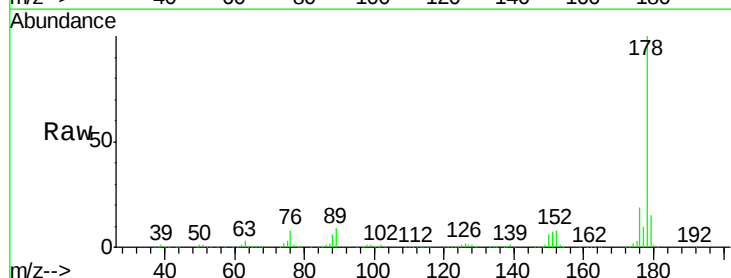
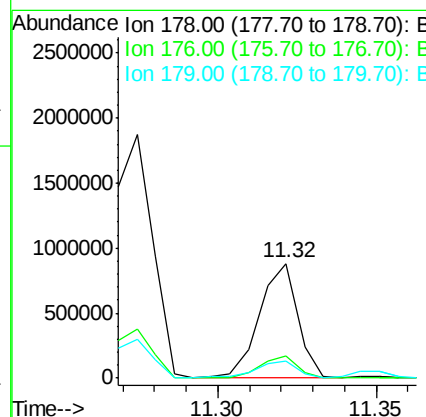
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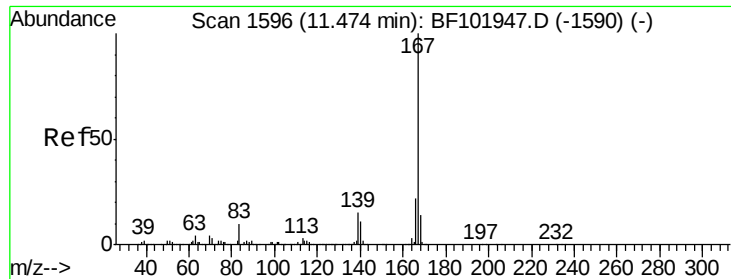
Sohil
1/22/2018 5:24:09 PM



#71
Anthracene
Concen: 31.614 ng
RT: 11.32 min Scan# 1570
Delta R.T. 0.00 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Tgt Ion:178 Resp: 730915
Ion Ratio Lower Upper
178 100
176 19.1 15.4 23.2
179 15.2 12.6 19.0





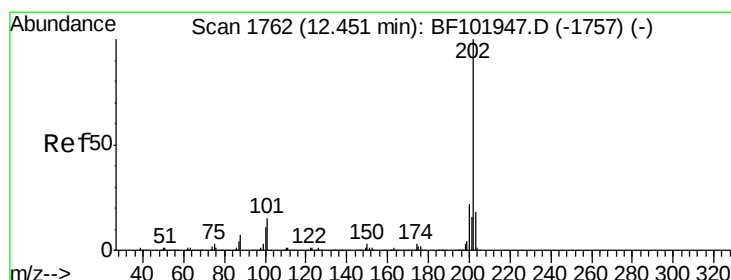
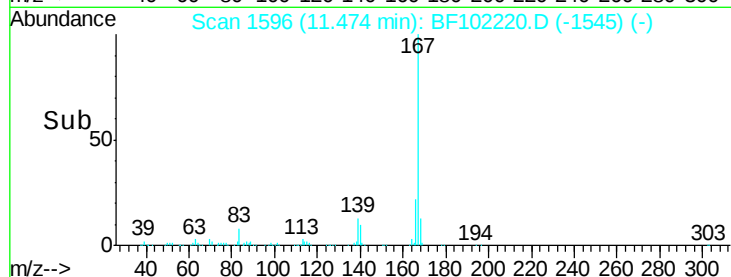
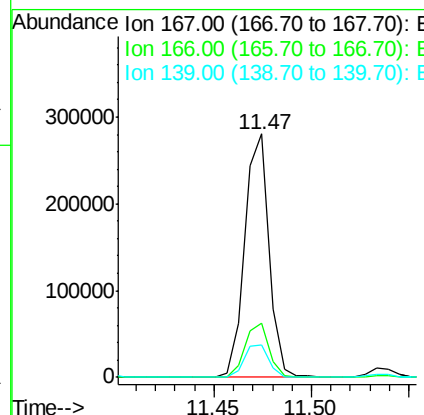
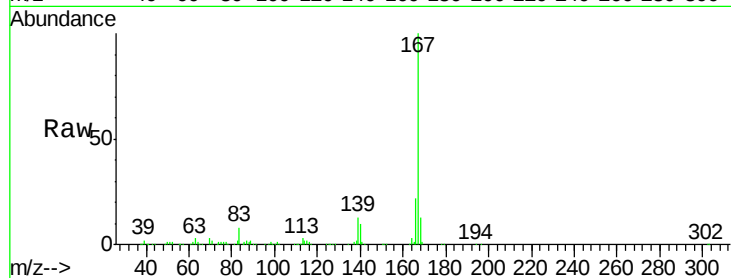
#72
 Carbazole
 Concen: 10.643 ng
 RT: 11.47 min Scan# 1596
 Delta R.T. 0.00 min
 Lab File: BF102220.D
 Acq: 19 Jan 2018 14:12

Instrument :
 BNA_F
 ClientSampleId :
 A2 SB74 BOT-N 10

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.6	26.4
139	13.1	10.9	16.3

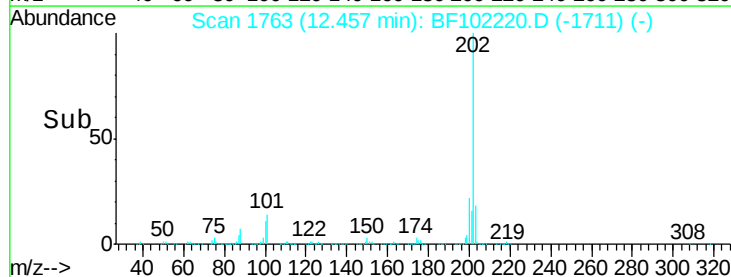
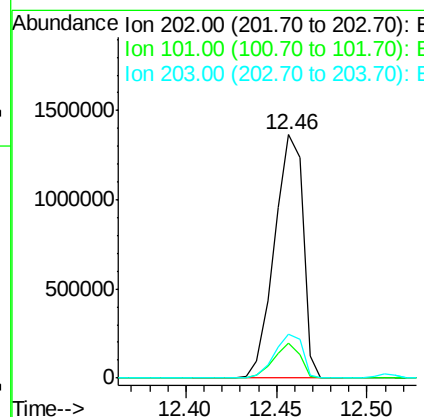
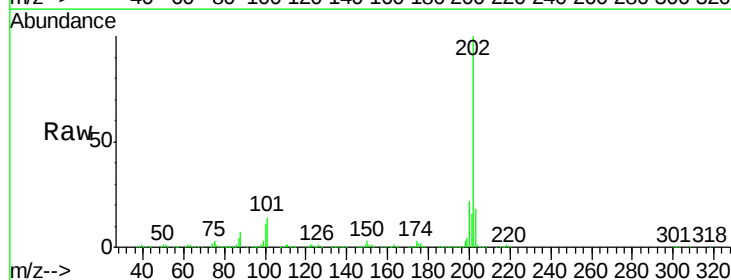
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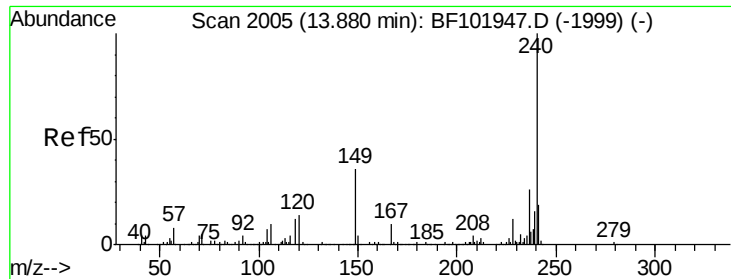
Sohil
 1/22/2018 5:24:09 PM



#74
 Fluoranthene
 Concen: 66.523 ng
 RT: 12.46 min Scan# 1763
 Delta R.T. 0.01 min
 Lab File: BF102220.D
 Acq: 19 Jan 2018 14:12

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.3	0.0	34.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 13.88 min Scan# 2005

Delta R.T. 0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Instrument :

BNA_F

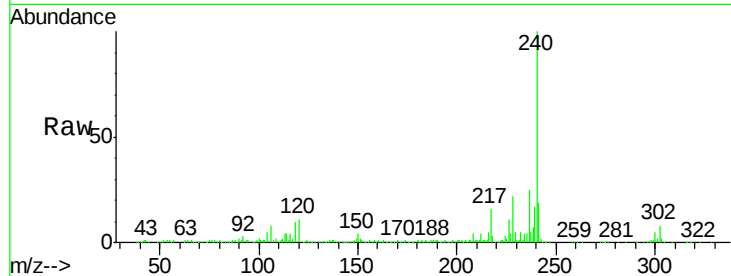
ClientSampleId :

A2 SB74 BOT-N 10

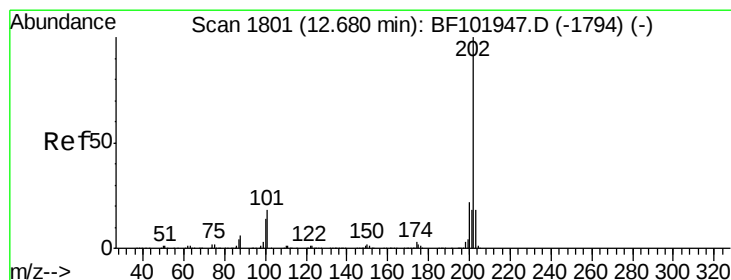
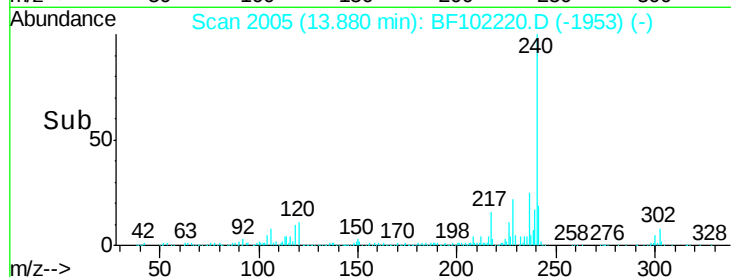
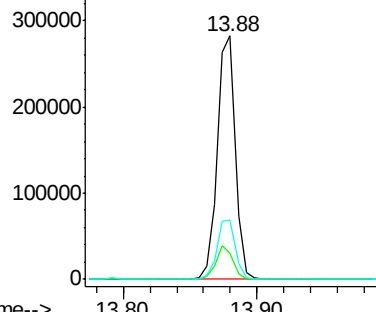
Tot Ion:	240	Resp:	260124
Ion Ratio		Lower	Upper
240	100		
120	10.6	9.5	14.3
236	24.6	20.7	31.1

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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: 47.752 ng

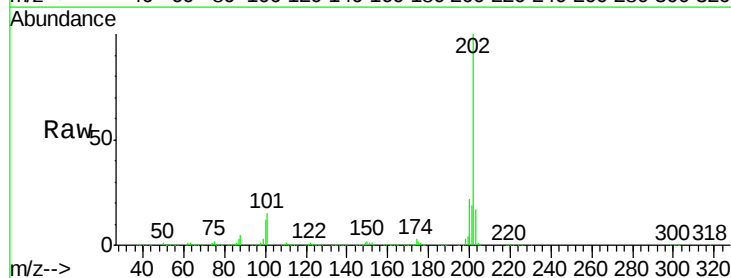
RT: 12.69 min Scan# 1802

Delta R.T. 0.01 min

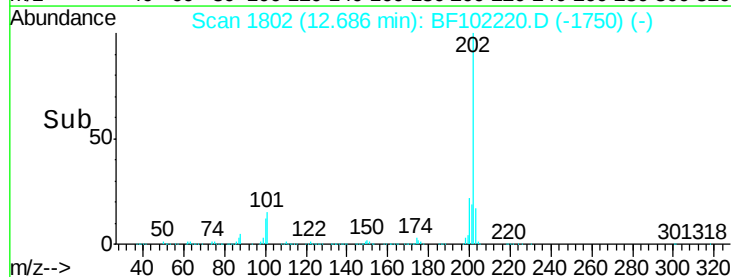
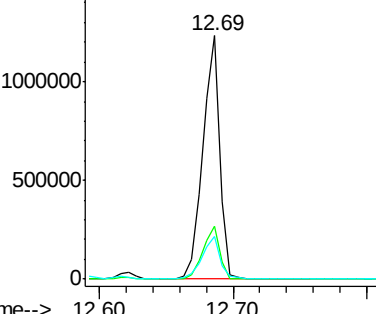
Lab File: BF102220.D

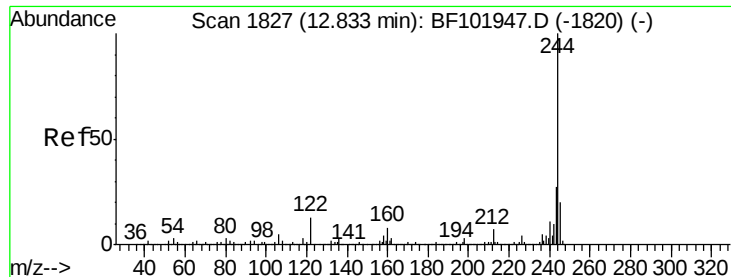
Acq: 19 Jan 2018 14:12

Tgt Ion:	202	Resp:	1097977
Ion Ratio		Lower	Upper
202	100		
200	21.6	17.4	26.2
203	17.5	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: 3.684 ng

RT: 12.82 min Scan# 1825

Delta R.T. -0.01 min

Lab File: BF102220.D

Acq: 19 Jan 2018 14:12

Instrument :

BNA_F

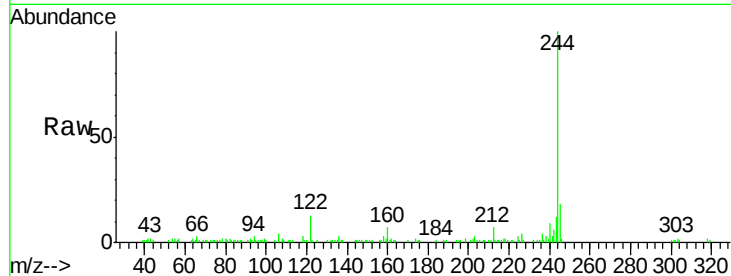
ClientSampleId :

A2 SB74 BOT-N 10

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.4	8.0
122	12.7	11.0	16.4

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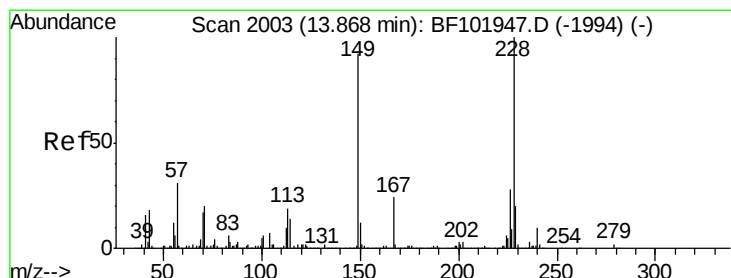
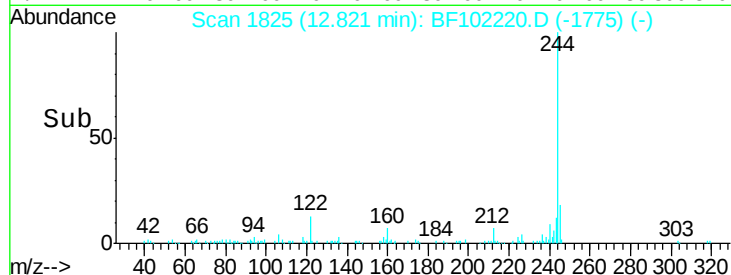
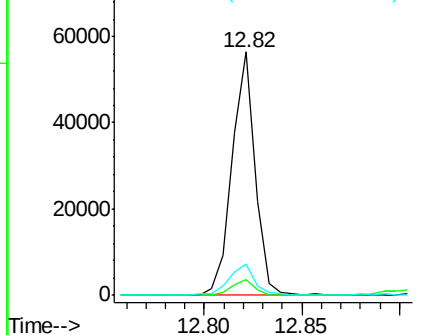
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Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 30.438 ng m

RT: 13.87 min Scan# 2003

Delta R.T. 0.00 min

Lab File: BF102220.D

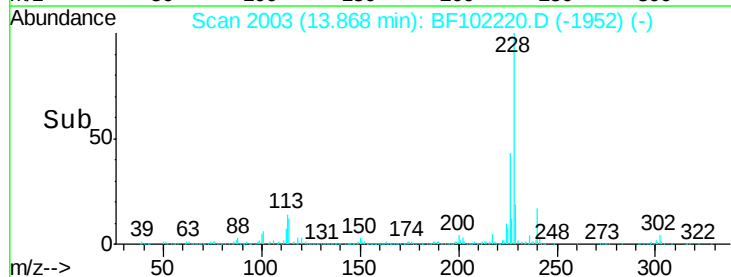
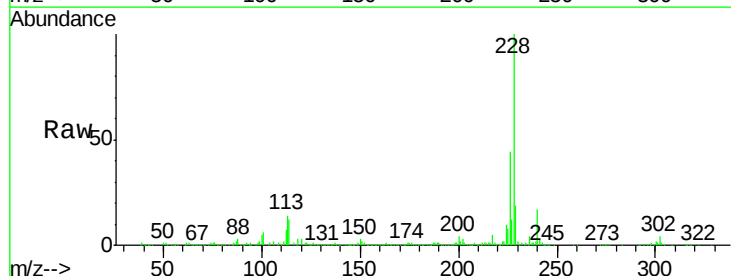
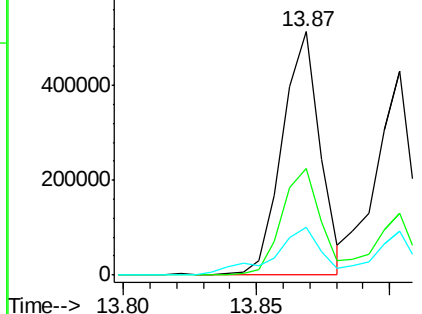
Acq: 19 Jan 2018 14:12

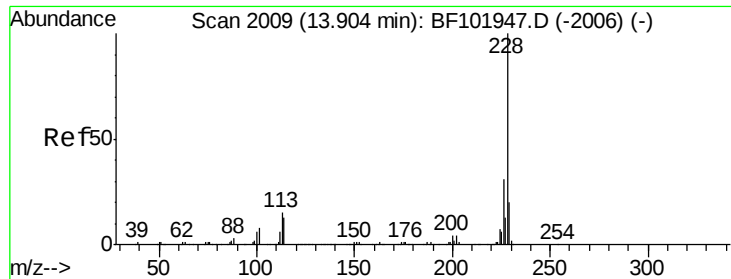
Tgt Ion	Ratio	Lower	Upper
228	100		
226	43.6	22.6	33.8#
229	19.4	15.8	23.6

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





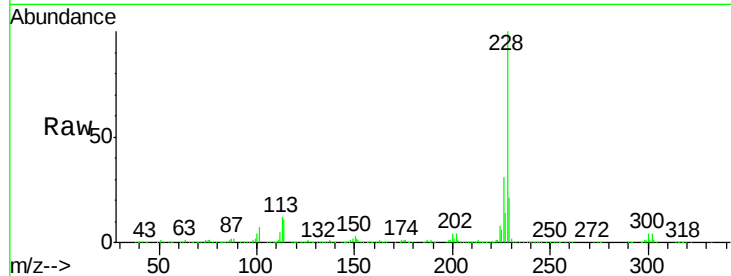
#82
Chrysene
Concen: 23.175 ng
RT: 13.90 min Scan# 2009
Delta R.T. 0.00 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10

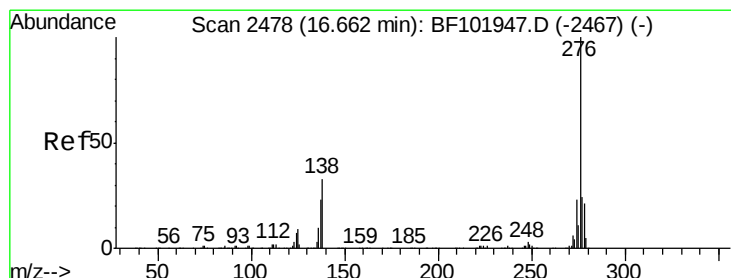
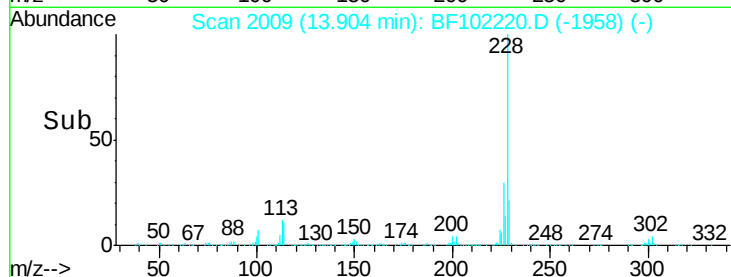
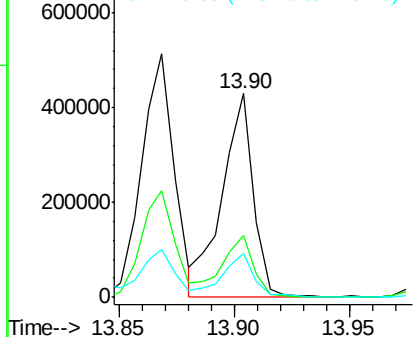
Tot Ion:	228	Resp:	401056
Ion Ratio	Lower	Upper	
228	100		
226	30.5	25.0	37.6
229	21.3	16.2	24.4

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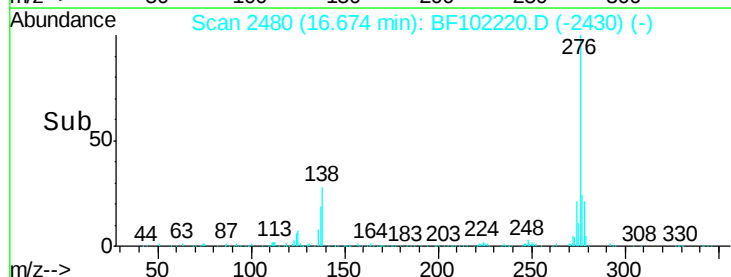
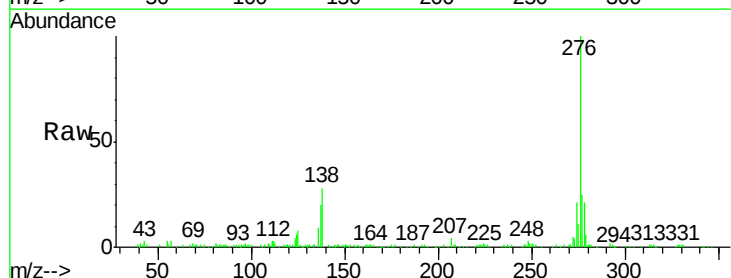
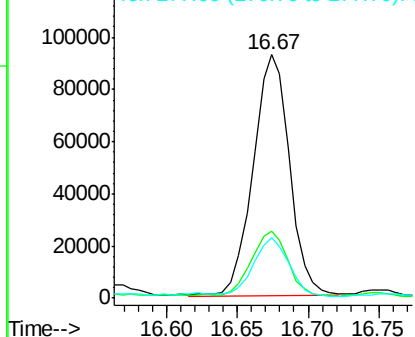
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

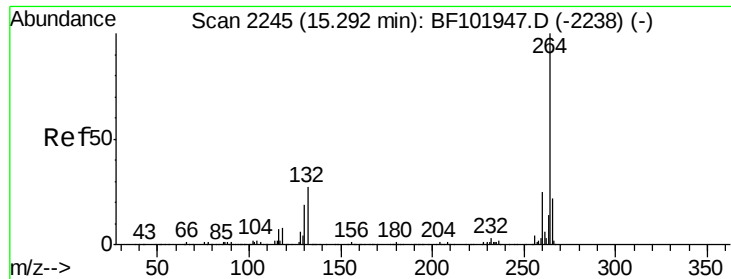


#85
Indeno(1,2,3-cd)pyrene
Concen: 13.312 ng
RT: 16.67 min Scan# 2480
Delta R.T. -0.01 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Tgt Ion:	276	Resp:	167669
Ion Ratio	Lower	Upper	
276	100		
138	26.6	25.0	37.6
277	24.0	20.1	30.1

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E





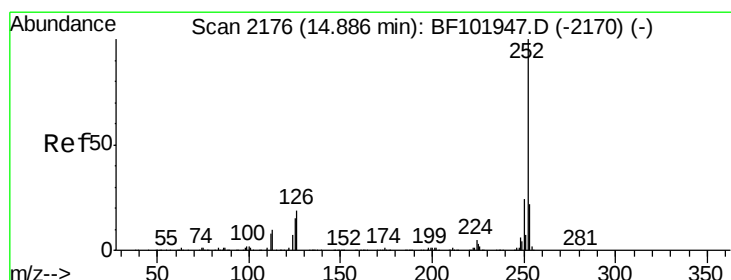
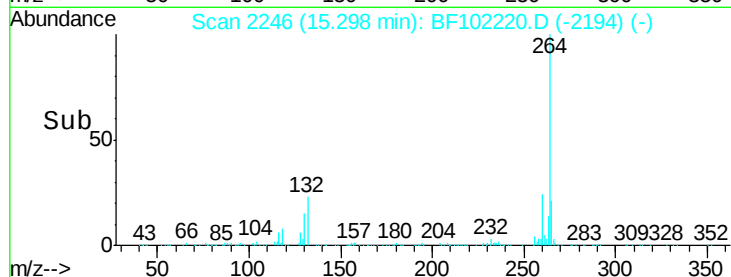
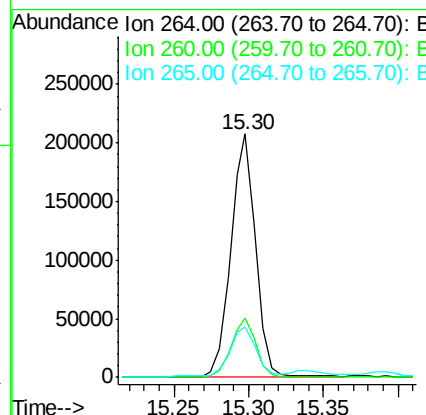
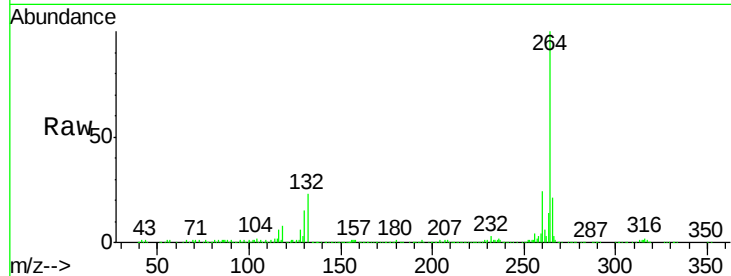
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.30 min Scan# 2246
Delta R.T. 0.01 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	20.8	17.5	26.3

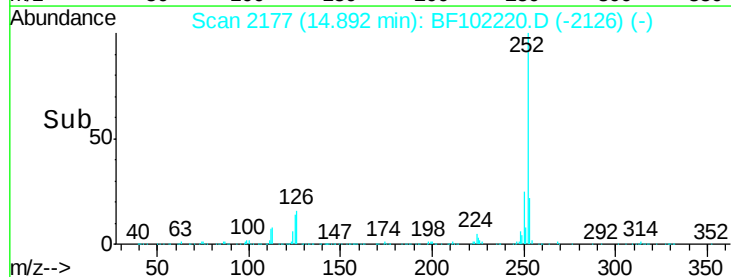
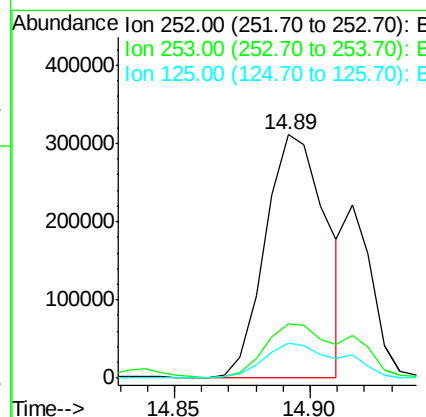
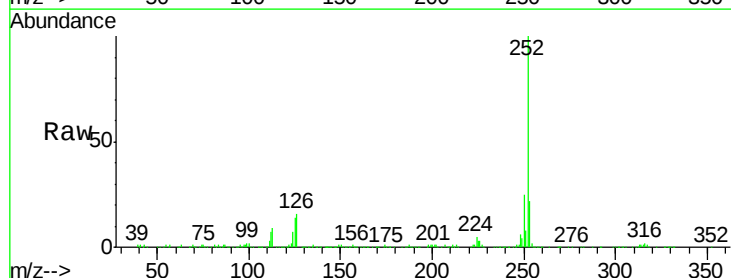
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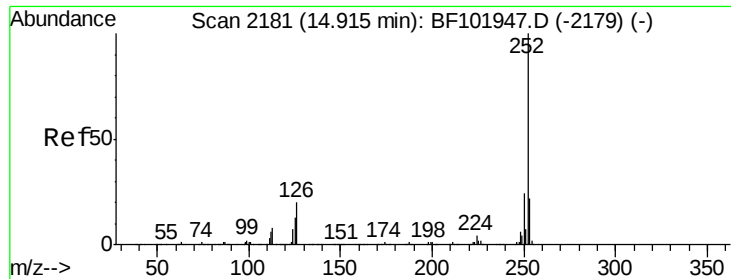
Sohil
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#87
Benzo(b)fluoranthene
Concen: 31.027 ng m
RT: 14.89 min Scan# 2177
Delta R.T. 0.00 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.0	25.6
125	14.3	9.0	13.6





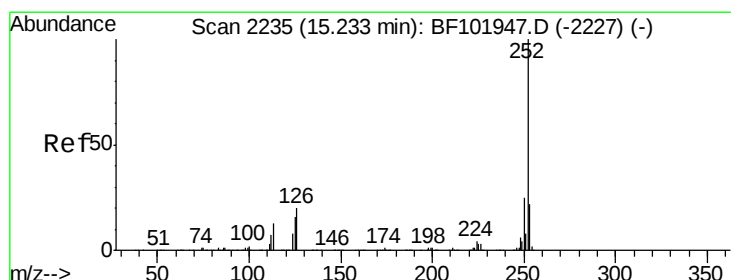
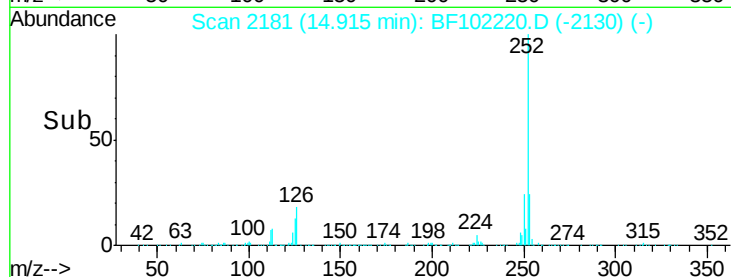
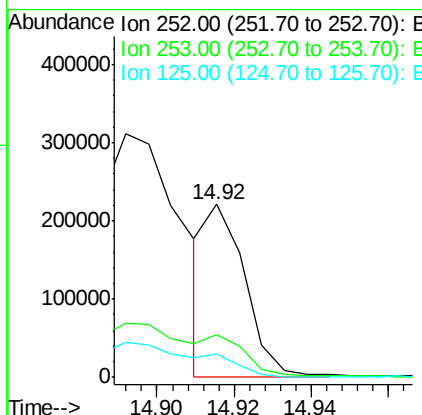
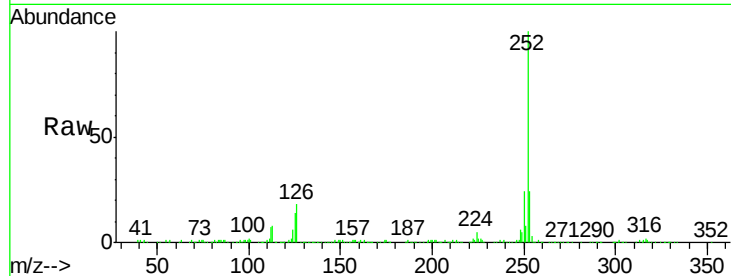
#88
Benzo(k)fluoranthene
Concen: 10.224 ng m
RT: 14.92 min Scan# 2181
Delta R.T. 0.00 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.5	17.9	26.9
125	13.7	10.2	15.2

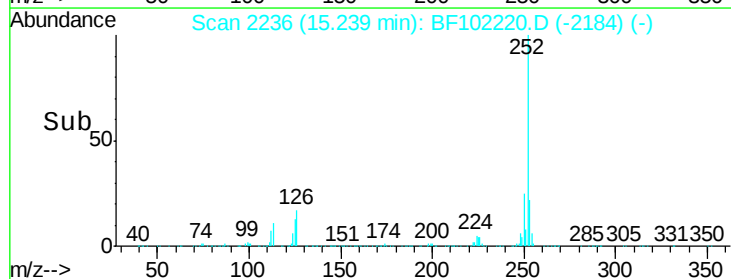
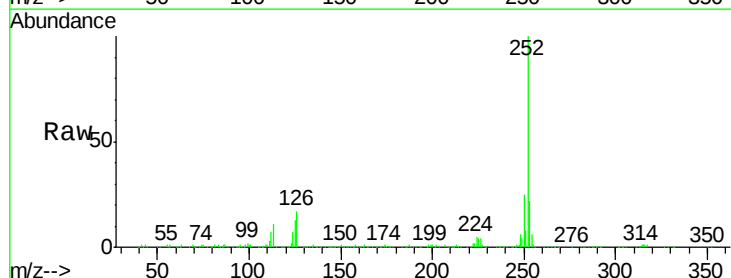
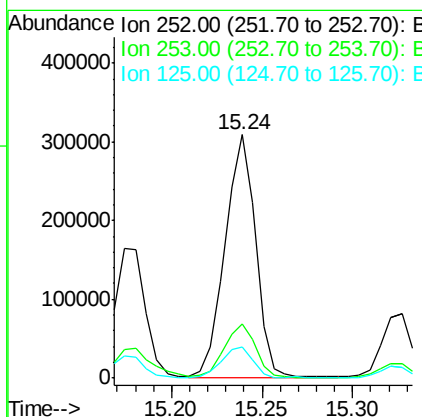
Manual Integrations
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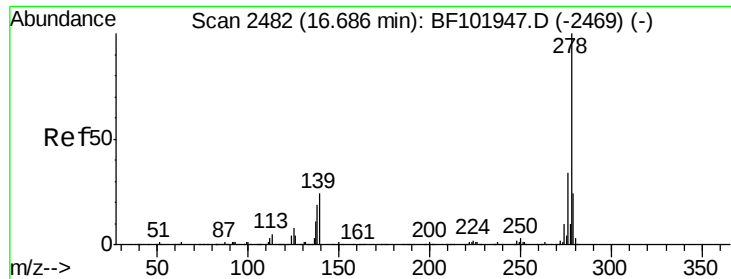
Sohil
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#89
Benzo(a)pyrene
Concen: 25.581 ng
RT: 15.24 min Scan# 2236
Delta R.T. 0.01 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.1	25.7
125	12.8	9.8	14.6





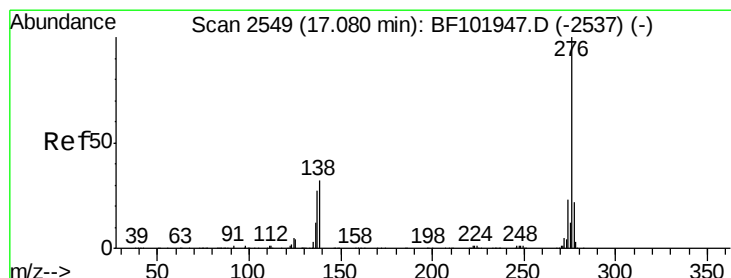
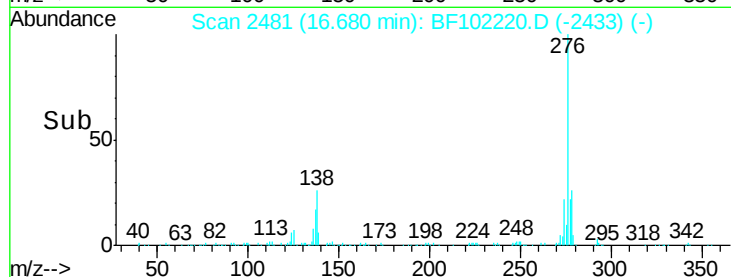
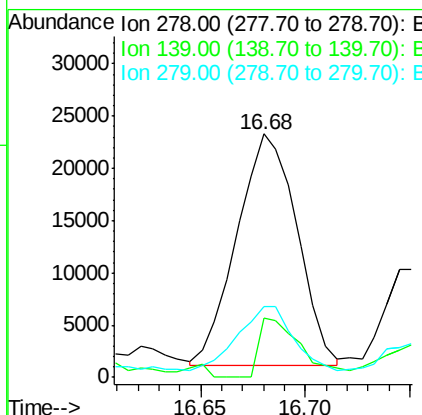
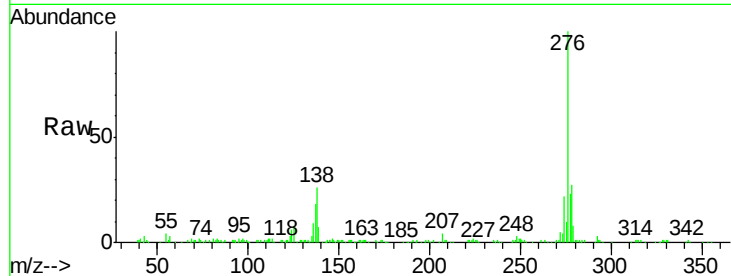
#90
Dibenzo(a,h)anthracene
Concen: 3.932 ng m
RT: 16.68 min Scan# 2481
Delta R.T. -0.02 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Instrument :
BNA_F
ClientSampleId :
A2 SB74 BOT-N 10

Tot Ion	Ratio	Lower	Upper
278	100		
139	24.5	15.9	23.9#
279	29.3	19.0	28.4#

Manual Integrations
APPROVED

Sohil
1/22/2018 5:24:09 PM



#91
Benzo(g,h,i)perylene
Concen: 11.972 ng
RT: 17.09 min Scan# 2551
Delta R.T. -0.01 min
Lab File: BF102220.D
Acq: 19 Jan 2018 14:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	25.0	17.9	26.9
138	29.0	21.8	32.8

