

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121619\
 Data File : BF118221.D
 Acq On : 17 Dec 2019 2:46
 Operator : JU
 Sample : K6284-01MSD
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Manual Integrations
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mohammad
 12/17/2019 3:19:35 PM

Quant Time: Dec 17 04:58:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	105845	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	413853	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	210369	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	367155	20.00	ng	0.00
76) Chrysene-d12	14.06	240	220573	20.00	ng	0.00
87) Perylene-d12	15.55	264	273624	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.49	112	727877	120.45	ng	0.00
7) Phenol-d6	6.50	99	927179	126.85	ng	0.00
23) Nitrobenzene-d5	7.43	82	552986	75.17	ng	0.00
42) 2,4,6-Tribromophenol	10.71	330	292807	114.57	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	1118481	80.90	ng	0.00
79) Terphenyl-d14	13.00	244	1019833	79.51	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.65	88	107269	42.097	ng	98
3) Pyridine	3.41	79	261901	39.838	ng	98
4) n-Nitrosodimethylamine	3.36	42	136531	48.275	ng	99
6) Aniline	6.53	93	203096	21.721	ng	97
8) 2-Chlorophenol	6.65	128	355140	52.117	ng	98
9) Benzaldehyde	6.41	77	118267	28.236	ng	98
10) Phenol	6.52	94	431302	51.740	ng	99
11) bis(2-Chloroethyl)ether	6.60	93	294688	48.879	ng	99
12) 1,3-Dichlorobenzene	6.80	146	382507	48.052	ng	98
13) 1,4-Dichlorobenzene	6.88	146	391762	48.875	ng	100
14) 1,2-Dichlorobenzene	7.03	146	364168	48.378	ng	97
15) Benzyl Alcohol	7.01	79	289999	50.825	ng	99
16) 2,2'-oxybis(1-Chloropropan	7.14	45	335131	46.232	ng	94
17) 2-Methylphenol	7.12	107	276070	50.938	ng	99
18) Hexachloroethane	7.37	117	138104	46.758	ng	93
19) n-Nitroso-di-n-propylamine	7.28	70	217197	48.900	ng	100
20) 3+4-Methylphenols	7.27	107	350984	51.558	ng	97
22) Acetophenone	7.27	105	474492	47.723	ng	99
24) Nitrobenzene	7.45	77	342978	47.454	ng	100
25) Isophorone	7.69	82	603133	48.364	ng	99
26) 2-Nitrophenol	7.77	139	192818	49.913	ng	97
27) 2,4-Dimethylphenol	7.80	122	291004	56.474	ng	98
28) bis(2-Chloroethoxy)methane	7.90	93	376207	46.168	ng	99
29) 2,4-Dichlorophenol	8.01	162	292751	48.734	ng	99
30) 1,2,4-Trichlorobenzene	8.09	180	324596	46.237	ng	99
31) Naphthalene	8.17	128	1017270	48.943	ng	99
32) Benzoic acid	7.94	122	210156	45.170	ng	97
33) 4-Chloroaniline	8.22	127	54775	6.103	ng	98
34) Hexachlorobutadiene	8.29	225	189224	44.950	ng	100
35) Caprolactam	8.60	113	88766m	47.917	ng	
36) 4-Chloro-3-methylphenol	8.72	107	308031	48.727	ng	96
37) 2-Methylnaphthalene	8.87	142	687514	48.859	ng	100
38) 1-Methylnaphthalene	8.97	142	639696	48.417	ng	100
40) 1,2,4,5-Tetrachlorobenzene	9.03	216	306565	48.105	ng	99

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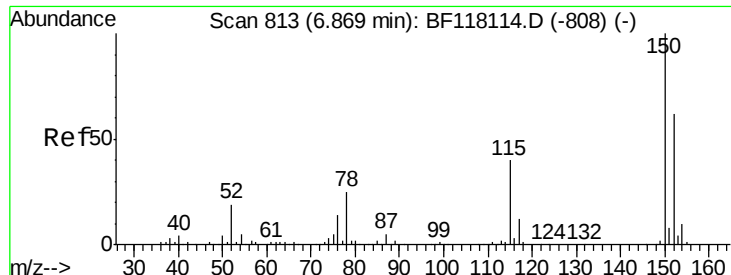
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 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.02	237	208664	73.079	nq	98
43) 2,4,6-Trichlorophenol	9.15	196	208838	49.080	nq	97
44) 2,4,5-Trichlorophenol	9.19	196	222764	50.532	nq	99
46) 1,1'-Biphenyl	9.33	154	827965	49.903	nq	99
47) 2-Chloronaphthalene	9.36	162	639233	47.896	nq	96
48) 2-Nitroaniline	9.46	65	173600	45.612	nq	99
49) Acenaphthylene	9.77	152	1021984	51.917	nq	99
50) Dimethylphthalate	9.63	163	795840	51.216	nq	99
51) 2,6-Dinitrotoluene	9.70	165	169990	50.311	nq	98
52) Acenaphthene	9.95	154	580093	48.280	nq	99
53) 3-Nitroaniline	9.87	138	67325	16.931	nq	95
54) 2,4-Dinitrophenol	9.98	184	106580	63.403	nq	96
55) Dibenzofuran	10.12	168	879490	49.956	nq	99
56) 4-Nitrophenol	10.04	139	247968	89.859	nq	99
57) 2,4-Dinitrotoluene	10.11	165	226005	50.114	nq	90
58) Fluorene	10.47	166	695036	49.678	nq	100
59) 2,3,4,6-Tetrachlorophenol	10.25	232	179881	49.459	nq	100
60) Diethylphthalate	10.33	149	741527	48.435	nq	100
61) 4-Chlorophenyl-phenylether	10.46	204	340571	48.379	nq	100
62) 4-Nitroaniline	10.49	138	159032	38.347	nq	96
63) Azobenzene	10.62	77	637296	48.763	nq	97
65) 4,6-Dinitro-2-methylphenol	10.52	198	83856	41.357	nq	91
66) n-Nitrosodiphenylamine	10.57	169	604239	52.700	nq	100
67) 4-Bromophenyl-phenylether	10.94	248	211718	50.516	nq	# 90
68) Hexachlorobenzene	11.02	284	234691	47.575	nq	99
69) Atrazine	11.10	200	176202	76.154	nq	98
70) Pentachlorophenol	11.22	266	224697	96.857	nq	99
71) Phenanthrene	11.43	178	1027825	52.662	nq	100
72) Anthracene	11.49	178	999290	51.324	nq	100
73) Carbazole	11.64	167	840022	48.086	nq	99
74) Di-n-butylphthalate	11.97	149	1094428	50.059	nq	99
75) Fluoranthene	12.63	202	950520	47.634	nq	99
77) Benzidine	12.74	184	247019	42.541	nq	98
78) Pyrene	12.86	202	942586	54.227	nq	99
80) Butylbenzylphthalate	13.47	149	364737	46.333	nq	99
81) Benzo(a)anthracene	14.05	228	783697	51.384	nq	99
82) 3,3'-Dichlorobenzidine	14.01	252	192785	38.487	nq	99
83) Chrysene	14.09	228	759187	52.110	nq	99
84) Bis(2-ethylhexyl)phthalate	14.03	149	487051	46.921	nq	100
85) Di-n-octyl phthalate	14.64	149	788115	50.121	nq	99
86) Indeno(1,2,3-cd)pyrene	17.07	276	883456	72.069	nq	100
88) Benzo(b)fluoranthene	15.12	252	844237	46.652	nq	98
89) Benzo(k)fluoranthene	15.14	252	794755	45.715	nq	98
90) Benzo(a)pyrene	15.49	252	819966	51.303	nq	99
91) Dibenzo(a,h)anthracene	17.08	278	741750	54.109	nq	99
92) Benzo(g,h,i)perylene	17.52	276	686900	52.144	nq	99

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



#1

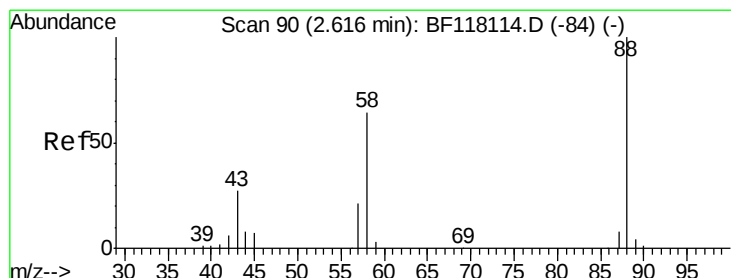
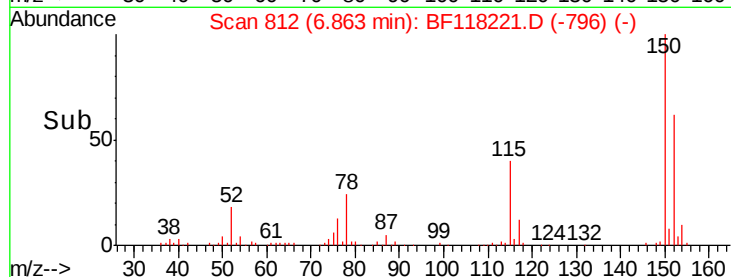
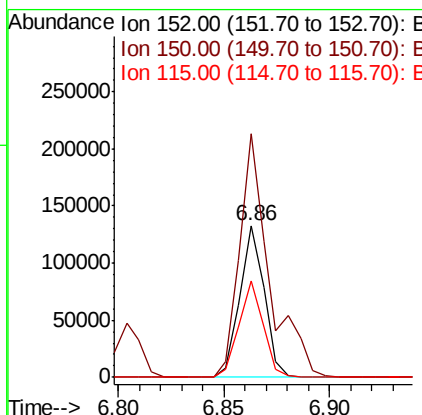
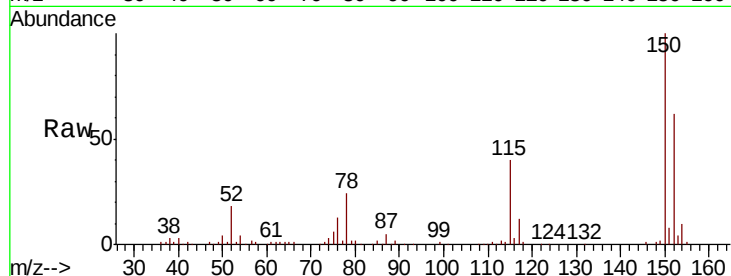
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMSD

Tot Ion	Ratio	Lower	Upper
152	100		
150	160.1	128.3	192.5
115	63.7	51.1	76.7

Manual Integrations
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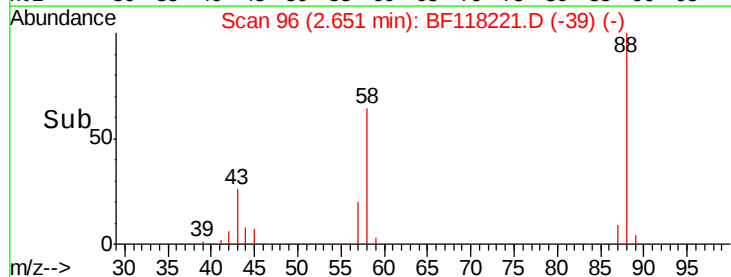
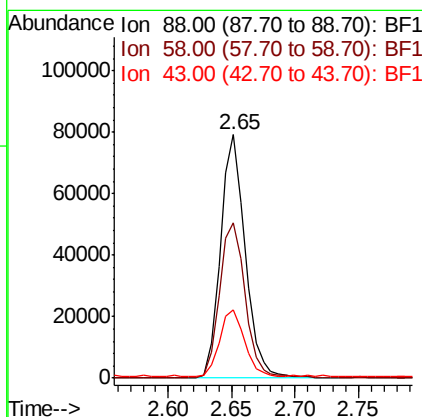
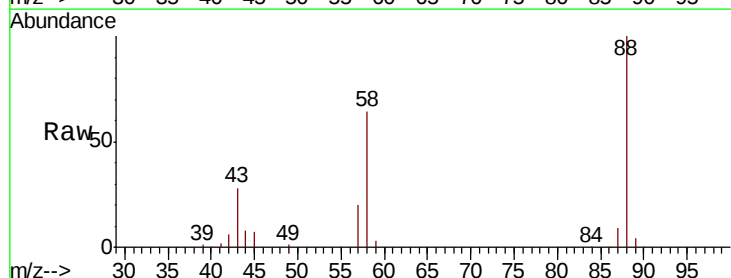
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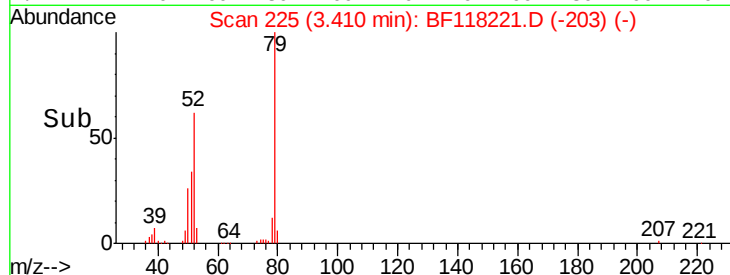
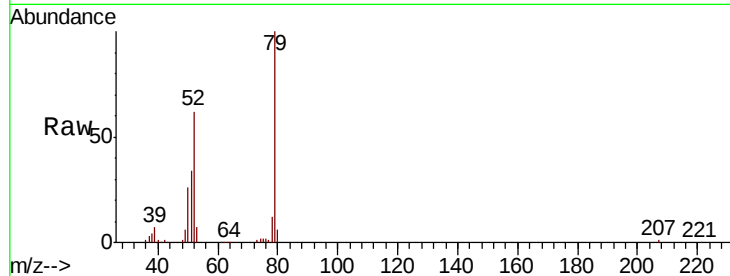
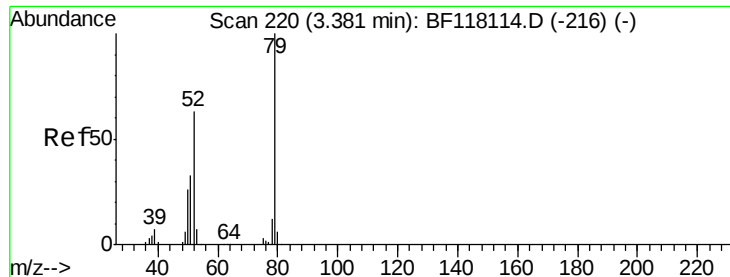


#2

1,4-Dioxane
Concen: 42.097 ng
RT: 2.65 min Scan# 96
Delta R.T. 0.04 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
88	100		
58	66.9	52.2	78.4
43	27.8	21.4	32.2





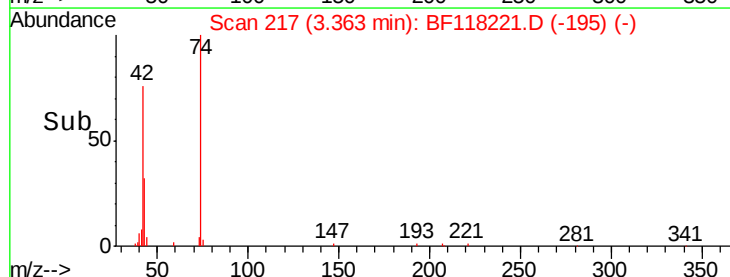
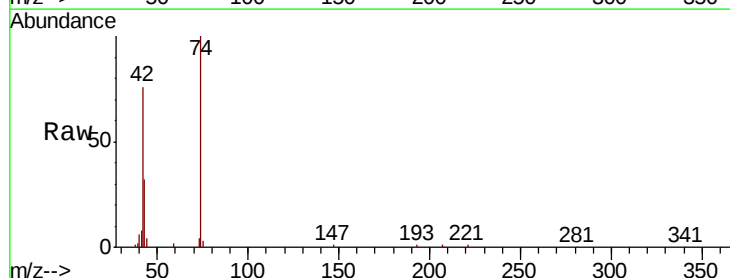
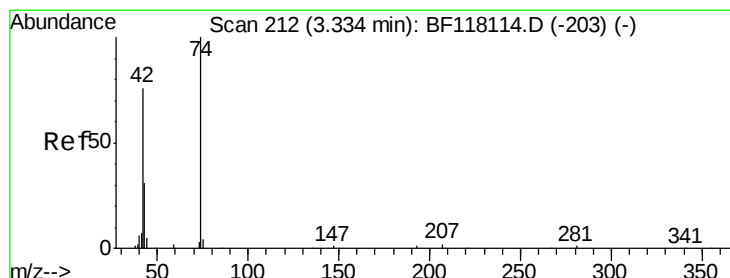
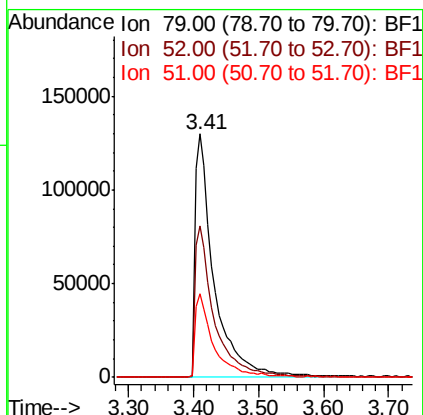
#3
 Pvridine
 Concen: 39.838 ng
 RT: 3.41 min Scan# 225
 Delta R.T. 0.03 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Tot Ion	Ratio	Lower	Upper
79	100		
52	62.3	50.7	76.1
51	34.5	26.4	39.6

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

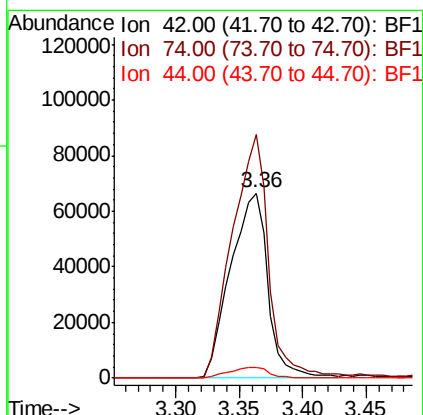
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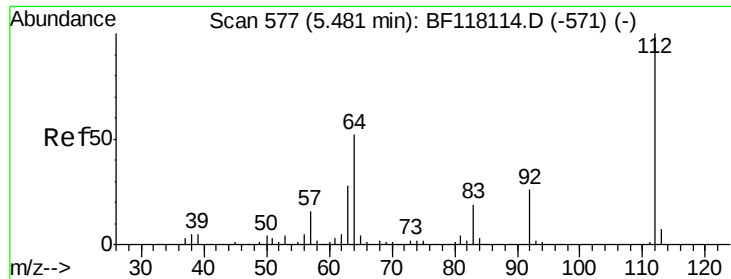
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#4
 n-Nitrosodimethylamine
 Concen: 48.275 ng
 RT: 3.36 min Scan# 217
 Delta R.T. 0.03 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
42	100		
74	131.7	104.6	157.0
44	5.6	5.1	7.7





#5

2-Fluorophenol

Concen: 120.445 ng

RT: 5.49 min Scan# 578

Delta R.T. 0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

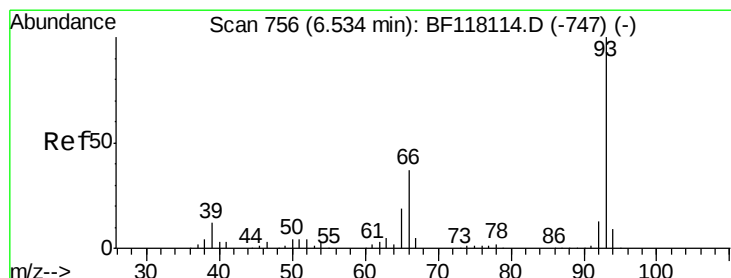
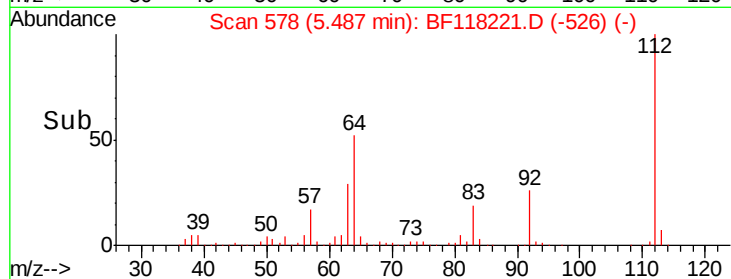
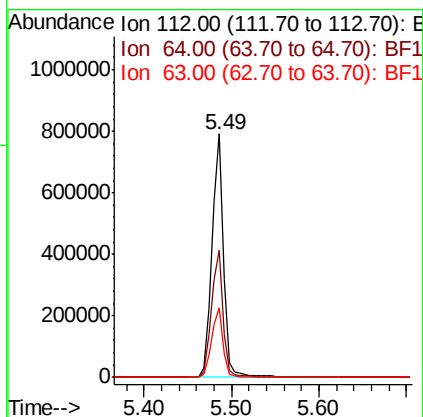
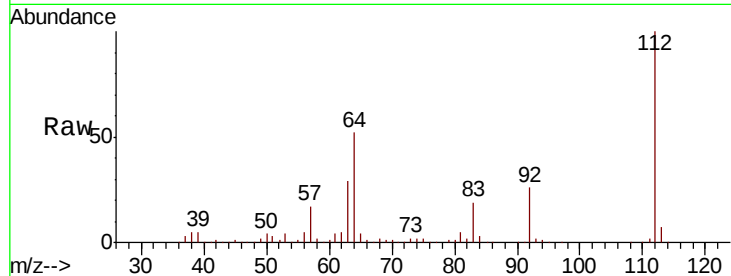
ClientSampleId :

42-SPRUCEMSD

Tot Ion:	112	Resp:	727877
Ion Ratio	Lower	Upper	
112	100		
64	52.1	41.3	61.9
63	28.6	22.4	33.6

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#6

Aniline

Concen: 21.721 ng

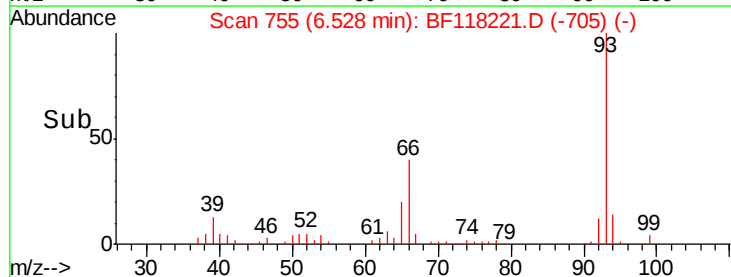
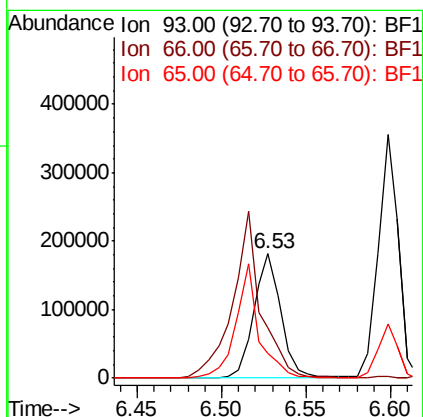
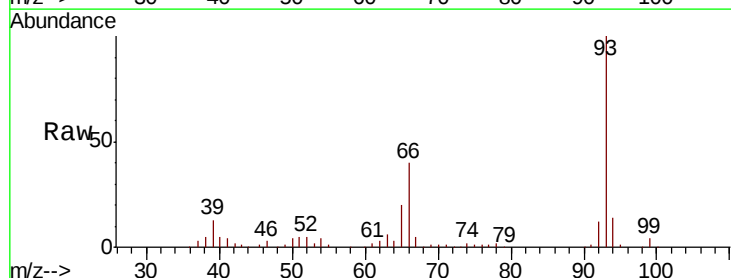
RT: 6.53 min Scan# 755

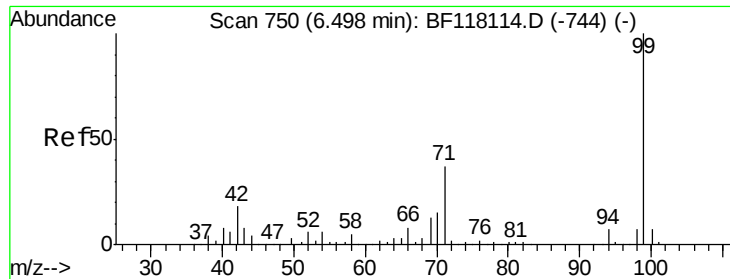
Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion:	93	Resp:	203096
Ion Ratio	Lower	Upper	
93	100		
66	40.1	30.2	45.2
65	20.1	15.5	23.3





#7

Phenol-d6

Concen: 126.846 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

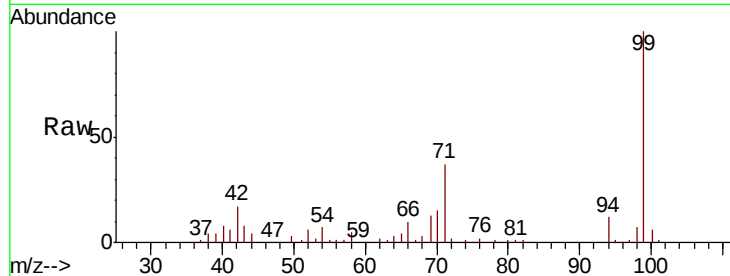
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42-SPRUCEMSD

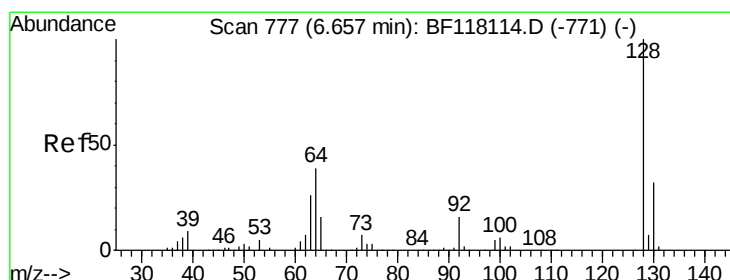
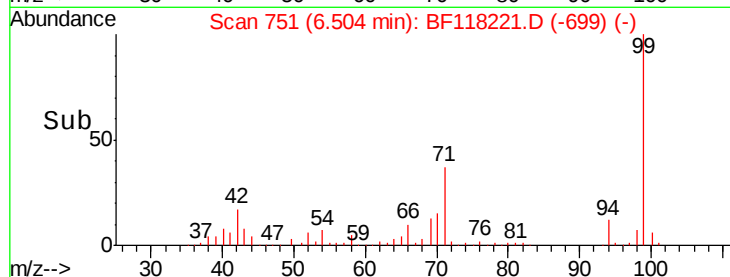
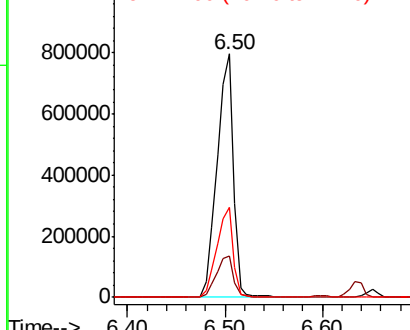
Tot Ion:	99	Resp:	927179
Ion Ratio	Lower	Upper	
99	100		
42	16.9	14.1	21.1
71	37.2	29.7	44.5

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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



#8

2-Chlorophenol

Concen: 52.117 ng

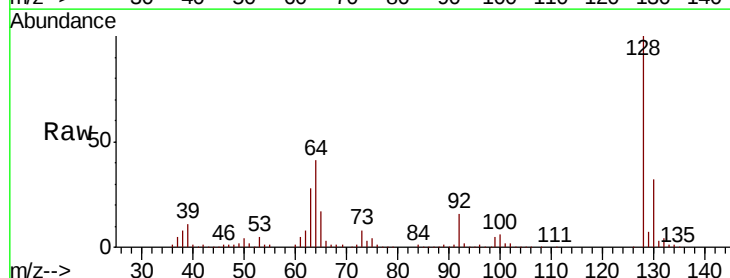
RT: 6.65 min Scan# 776

Delta R.T. -0.01 min

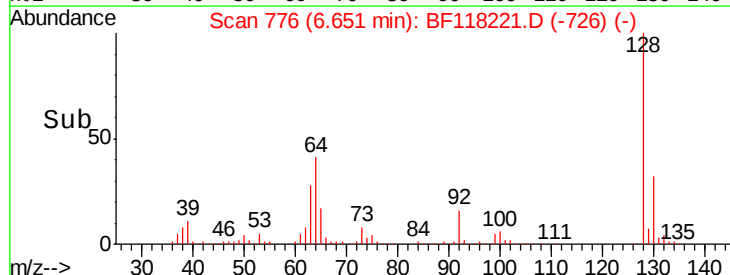
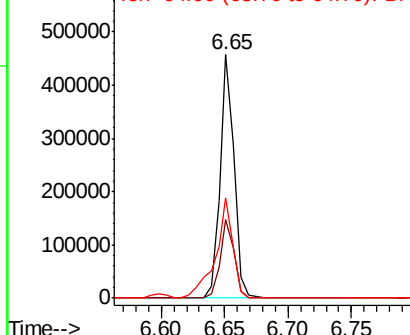
Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion:	128	Resp:	355140
Ion Ratio	Lower	Upper	
128	100		
130	32.5	12.1	52.1
64	41.3	19.3	59.3



Abundance Ion 128.00 (127.70 to 128.70): E
Ion 130.00 (129.70 to 130.70): E
Ion 64.00 (63.70 to 64.70): BF1





#9

Benzaldehyde

Concen: 28.236 ng

RT: 6.41 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

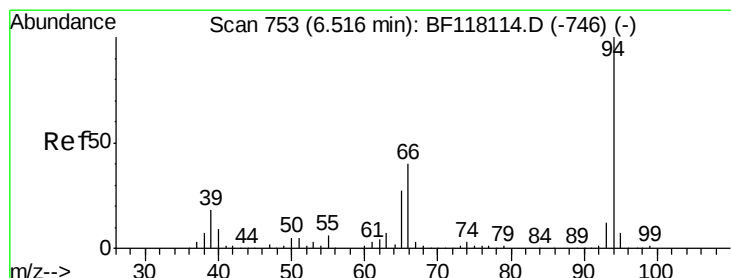
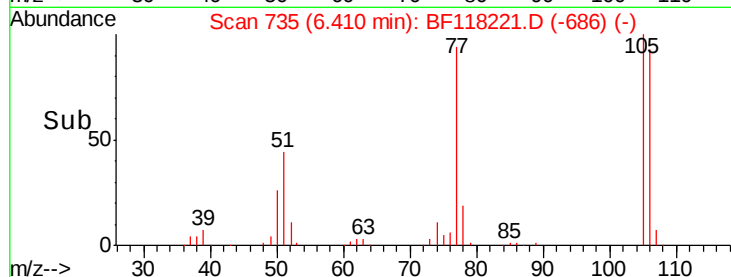
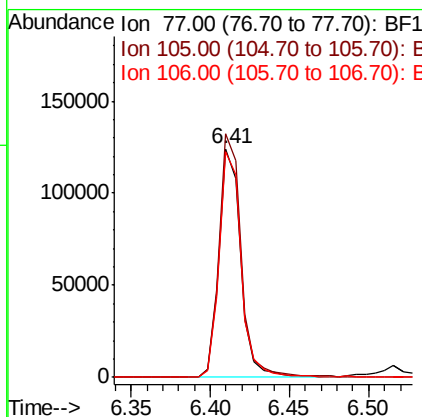
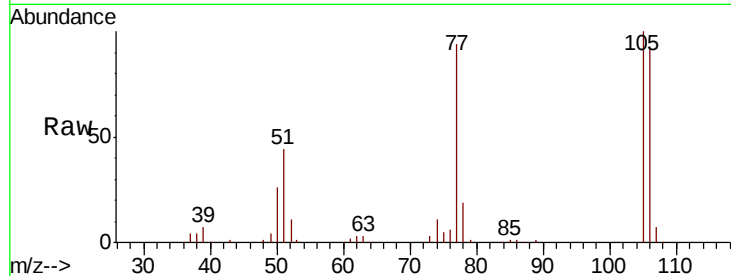
ClientSampleId :

42-SPRUCEMSD

Tot Ion:	77	Resp:	118267
Ion Ratio	Lower	Upper	
77	100		
105	106.4	86.4	126.4
106	98.8	83.8	123.8

Manual Integrations
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#10

Phenol

Concen: 51.740 ng

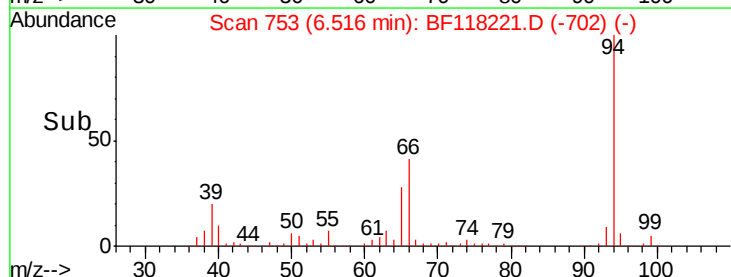
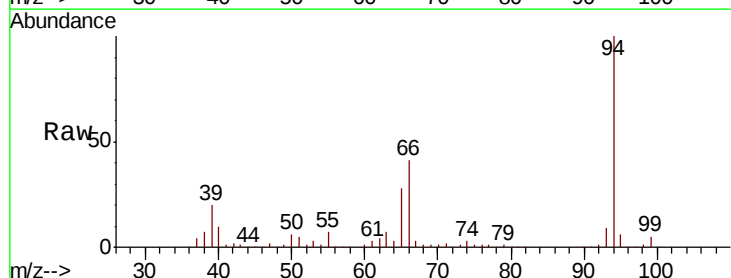
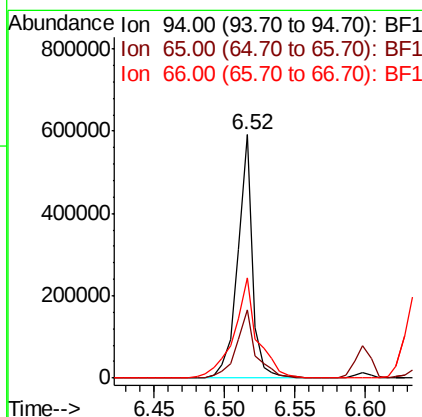
RT: 6.52 min Scan# 753

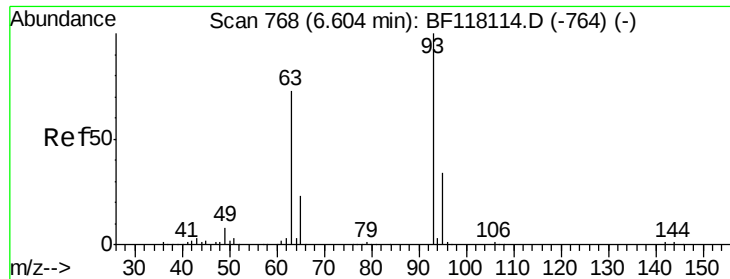
Delta R.T. -0.00 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion:	94	Resp:	431302
Ion Ratio	Lower	Upper	
94	100		
65	28.1	7.3	47.3
66	41.1	20.2	60.2





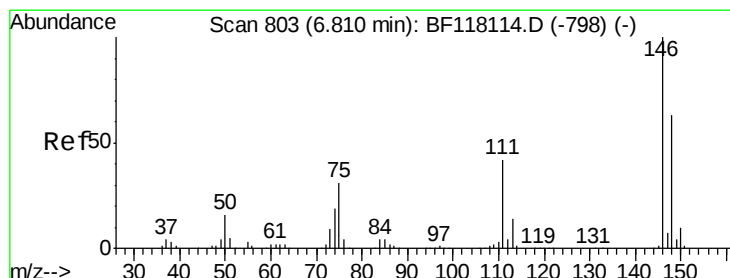
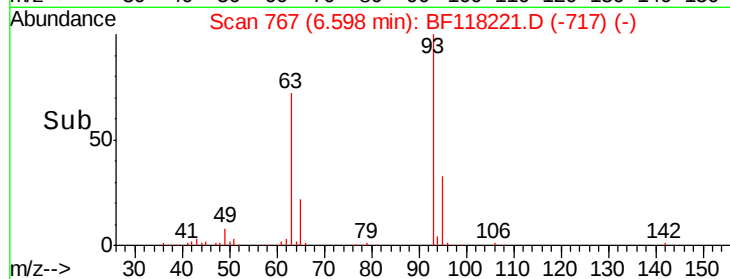
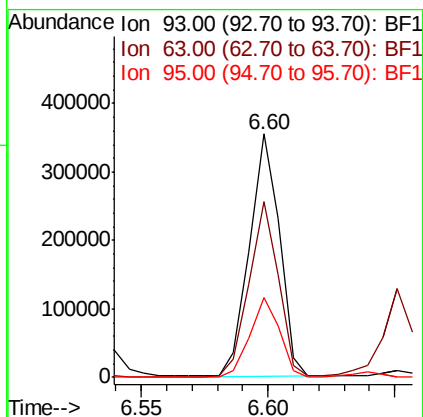
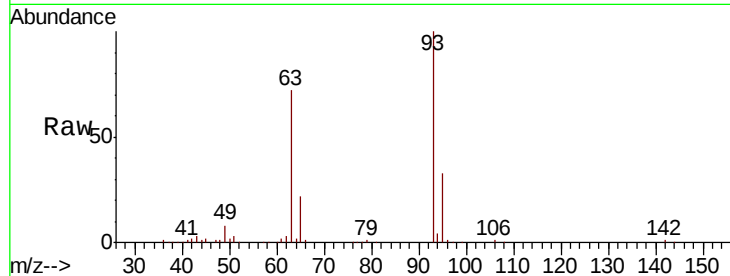
#11
bis(2-Chloroethyl)ether
Concen: 48.879 ng
RT: 6.60 min Scan# 767
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMSD

Tot Ion	Ratio	Resp	Lower	Upper
93	100	294688		
63	72.4	53.2	93.2	
95	32.7	13.8	53.8	

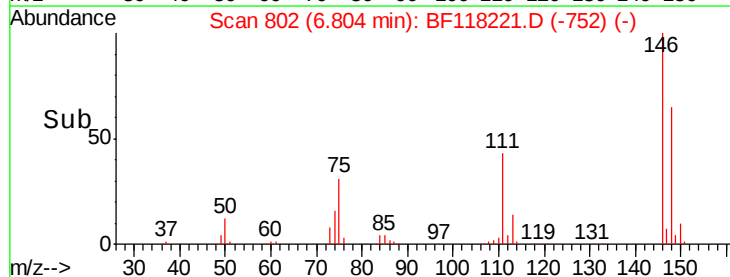
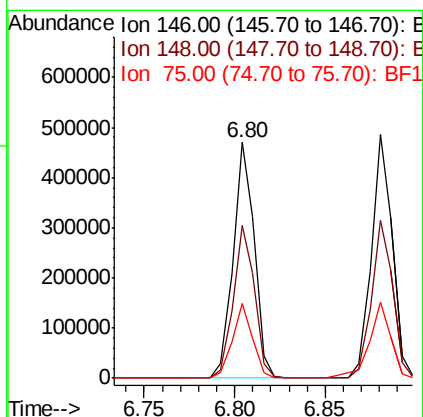
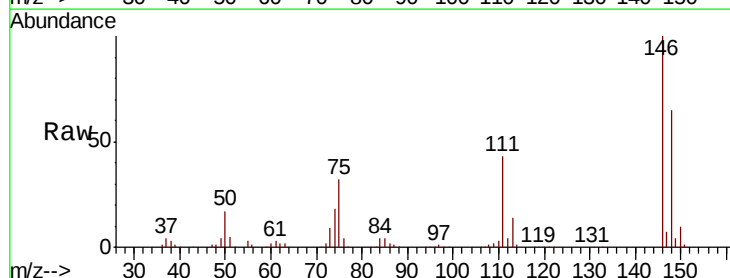
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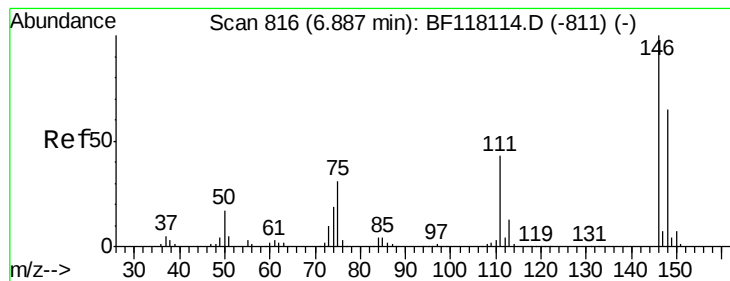
mohammad
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#12
1,3-Dichlorobenzene
Concen: 48.052 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	382507		
148	64.9	50.2	75.4	
75	31.7	24.6	37.0	





#13

1,4-Dichlorobenzene

Concen: 48.875 ng

RT: 6.88 min Scan# 815

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

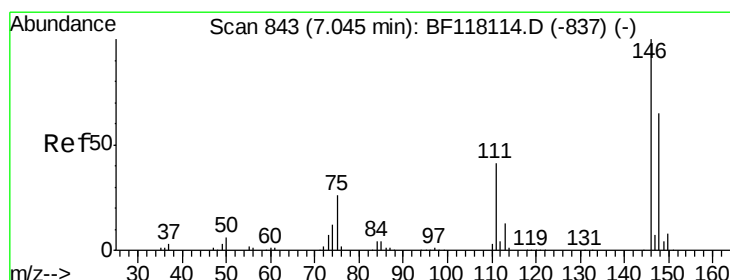
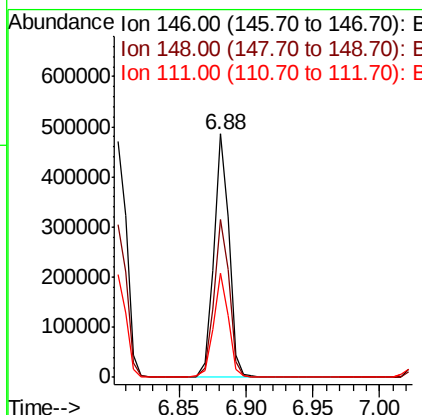
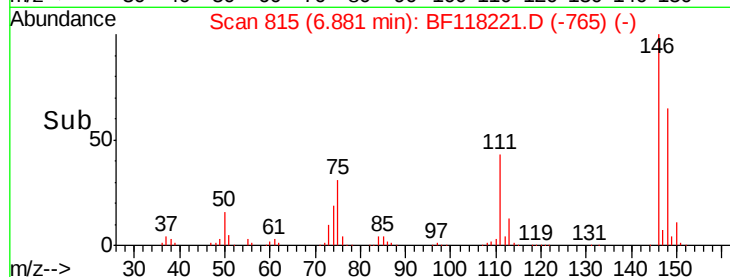
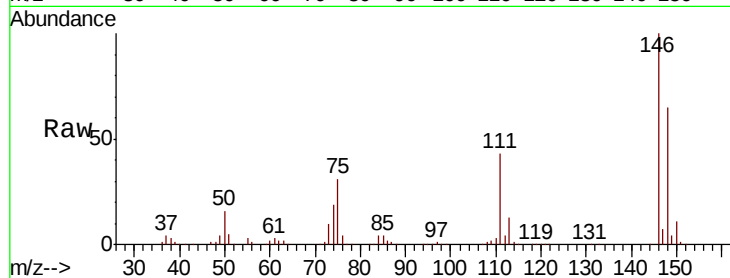
ClientSampleId :

42-SPRUCEMSD

Tot Ion:	146	Resp:	391762
Ion Ratio	Lower	Upper	
146	100		
148	65.0	52.1	78.1
111	42.8	34.6	52.0

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#14

1,2-Dichlorobenzene

Concen: 48.378 ng

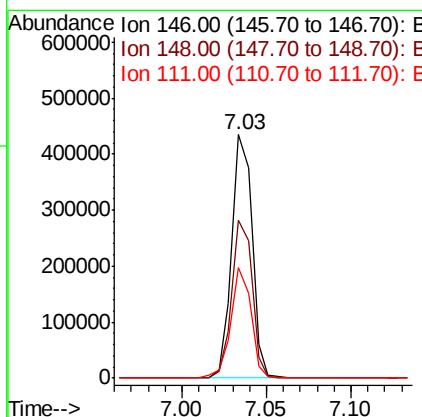
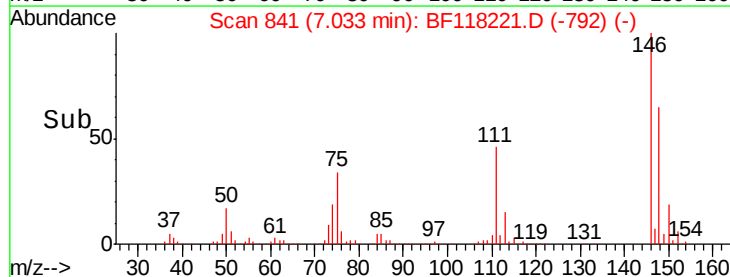
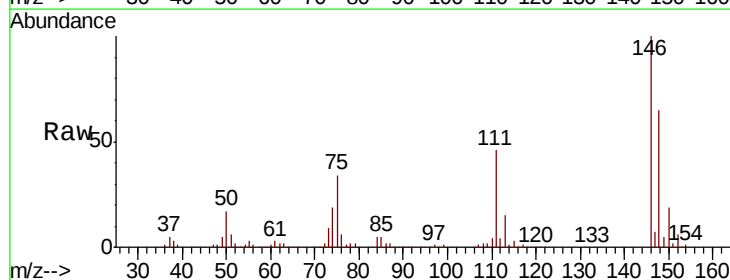
RT: 7.03 min Scan# 841

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion:	146	Resp:	364168
Ion Ratio	Lower	Upper	
146	100		
148	64.7	52.2	78.2
111	45.6	33.1	49.7





#15

Benzyl Alcohol

Concen: 50.825 ng

RT: 7.01 min Scan# 837

Delta R.T. -0.00 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMSD

Tot Ion: 79 Resp: 289999

Ion Ratio Lower Upper

79 100

108 78.9 62.7 94.1

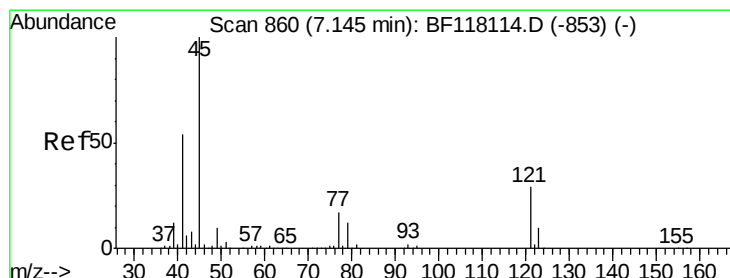
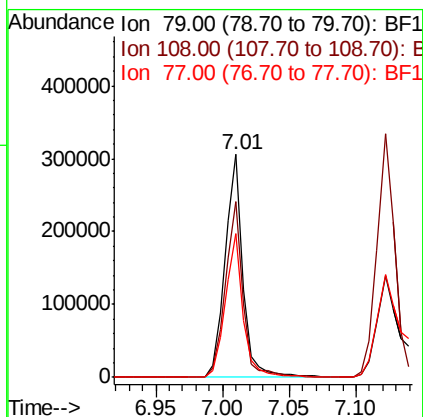
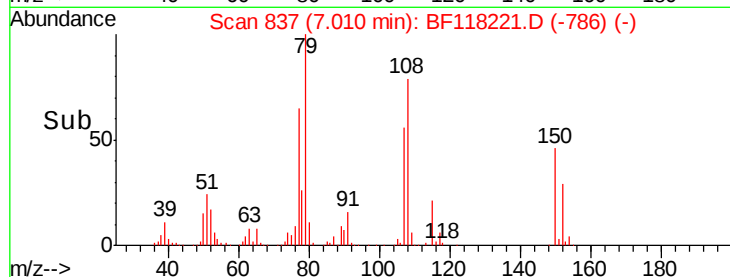
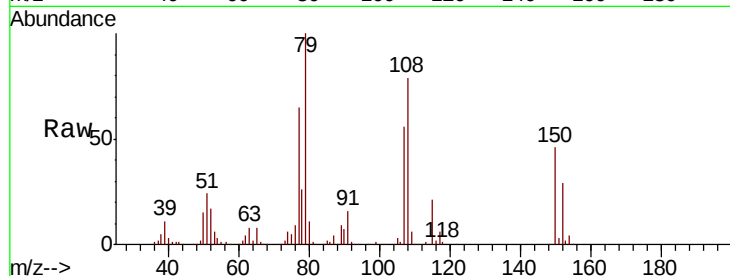
77 64.7 51.4 77.2

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#16

2,2'-oxybis(1-chloropropane)

Concen: 46.232 ng

RT: 7.14 min Scan# 859

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

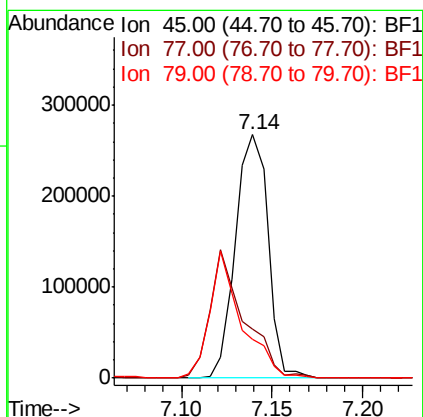
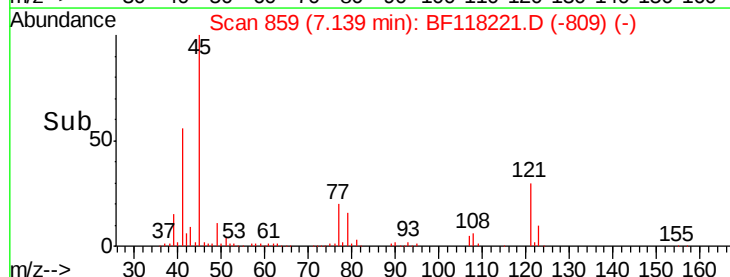
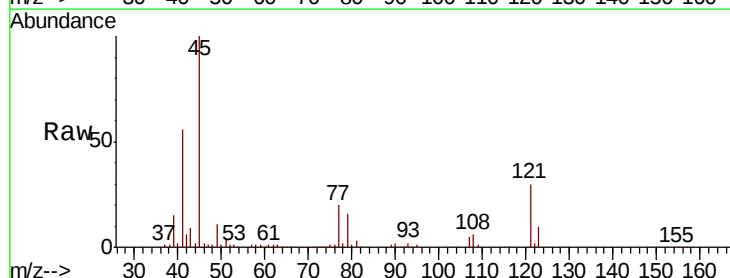
Tgt Ion: 45 Resp: 335131

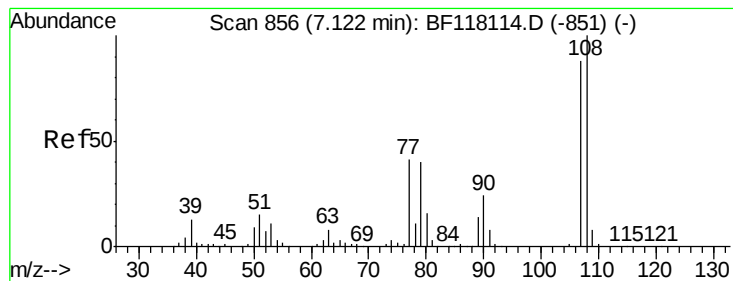
Ion Ratio Lower Upper

45 100

77 20.2 0.0 38.0

79 16.0 0.0 33.2





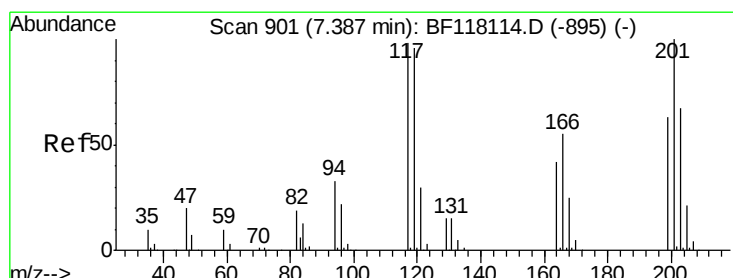
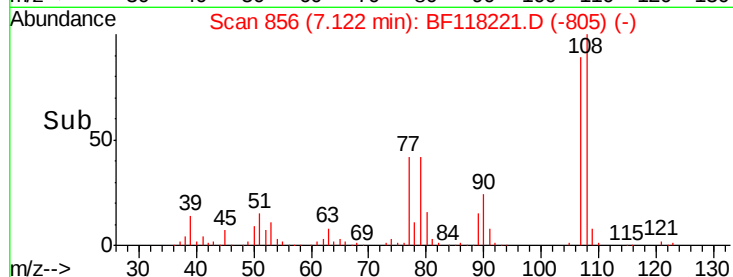
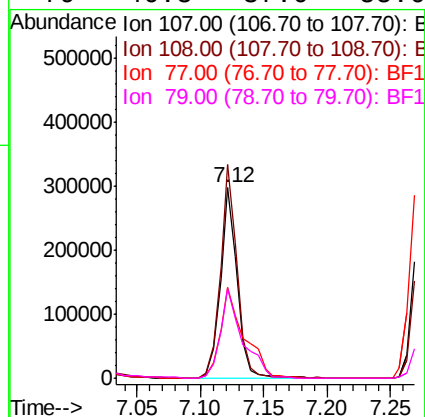
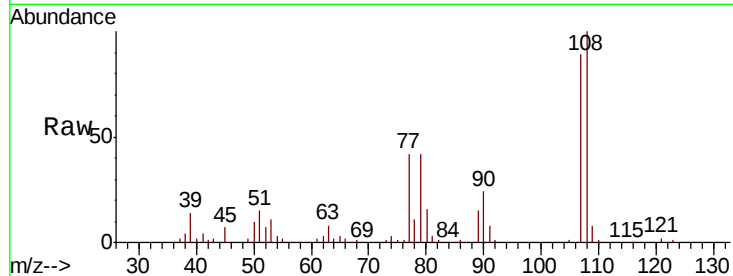
#17
2-Methylphenol
Concen: 50.938 ng
RT: 7.12 min Scan# 856
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
107	100	276070		
108	112.3	91.1	136.7	
77	47.6	37.8	56.6	
79	46.8	37.0	55.6	

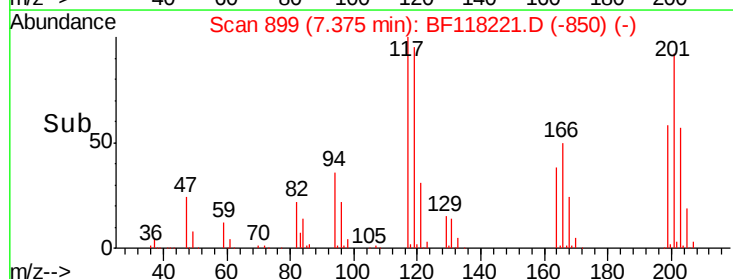
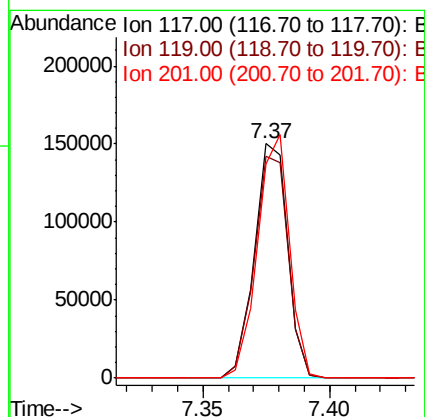
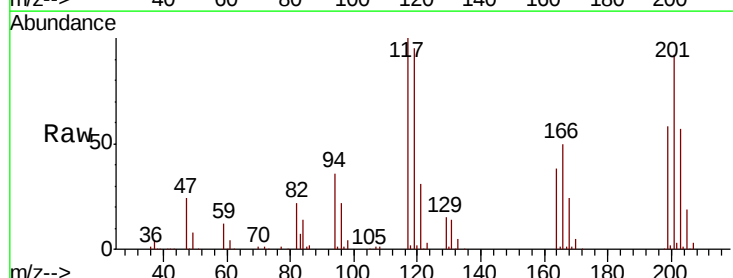
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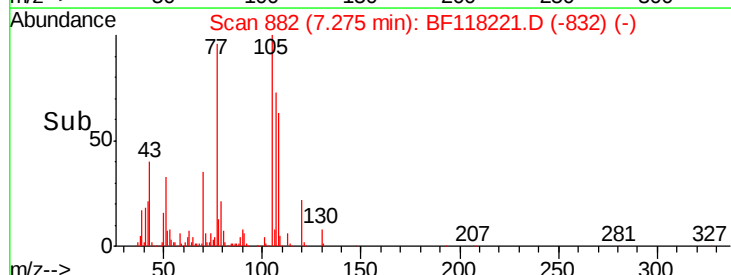
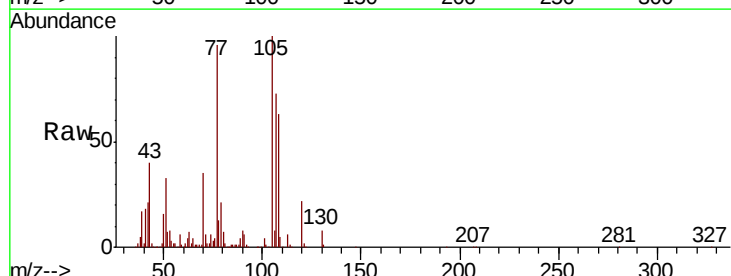
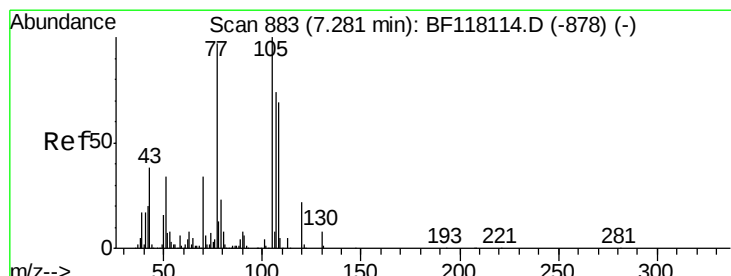
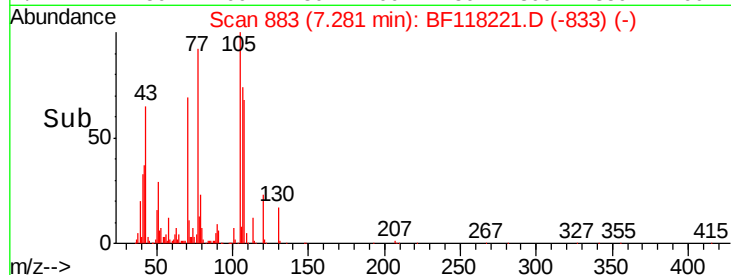
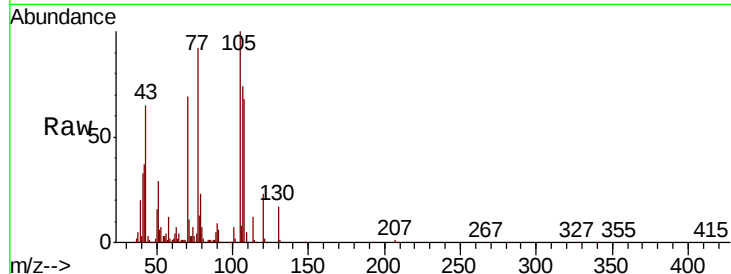
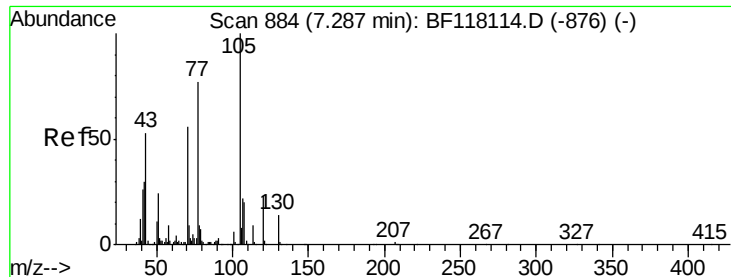
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#18
Hexachloroethane
Concen: 46.758 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

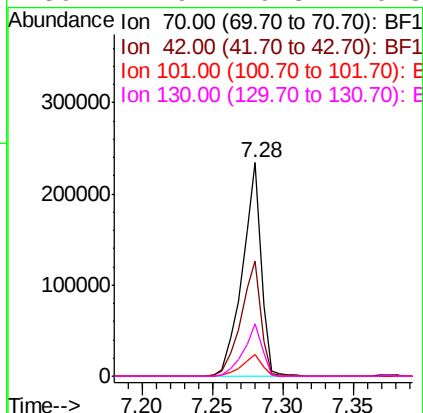
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	138104		
119	94.8	78.2	117.4	
201	91.6	81.6	122.4	





#19
n-Nitroso-di-n-propylamine
Concen: 48.900 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tot Ion	Ratio	Lower	Upper
70	100		
42	53.8	43.2	64.8
101	10.4	8.1	12.1
130	24.9	19.8	29.8



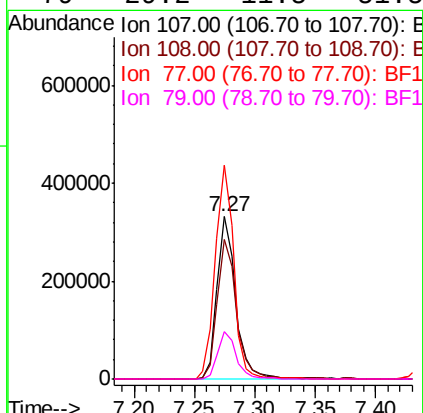
Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

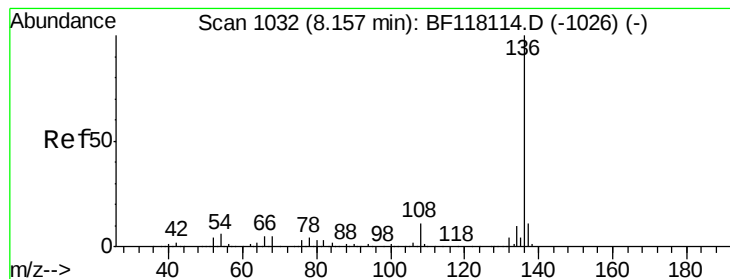
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#20
3+4-Methylphenols
Concen: 51.558 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
107	100		
108	86.1	73.2	113.2
77	131.5	110.9	150.9
79	29.2	11.5	51.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

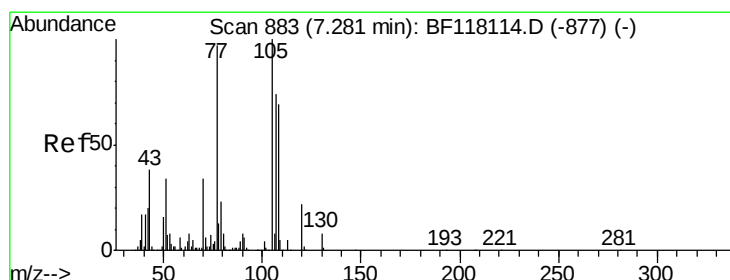
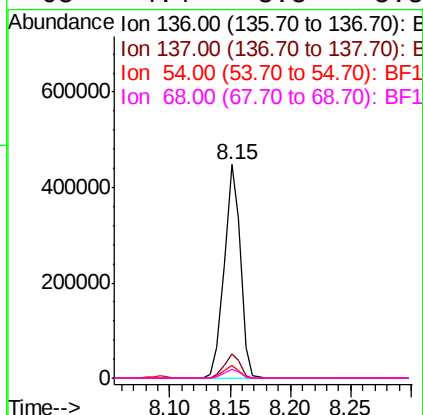
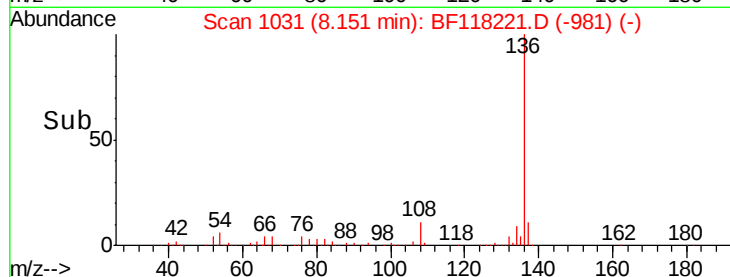
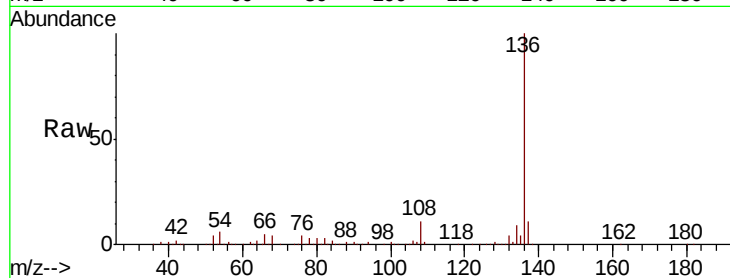
ClientSampleId :

42-SPRUCEMSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		413853		
137	11.4		9.0	13.6	
54	6.3		5.0	7.6	
68	4.4		3.8	5.8	

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#22

Acetophenone

Concen: 47.723 ng

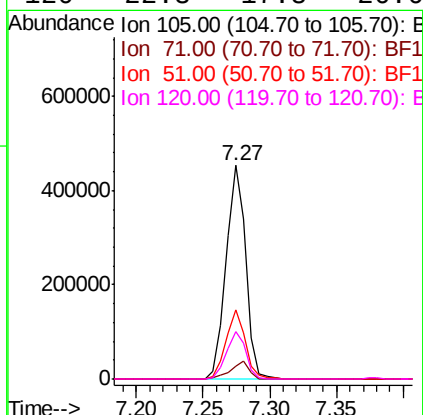
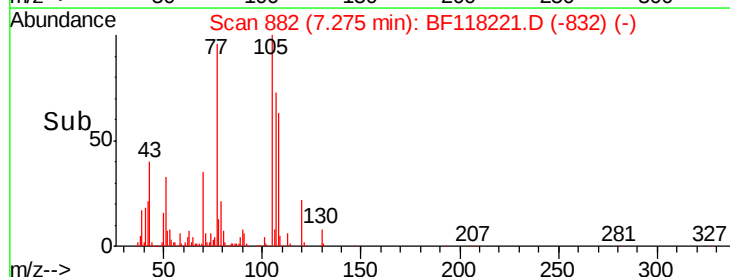
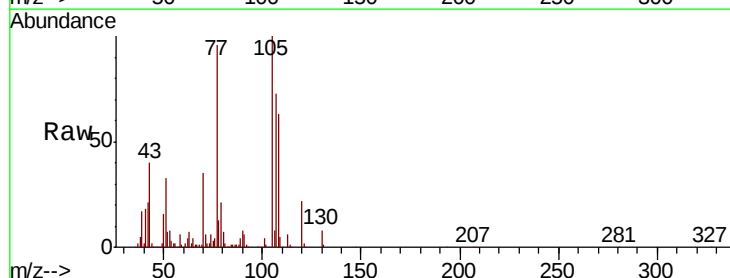
RT: 7.27 min Scan# 882

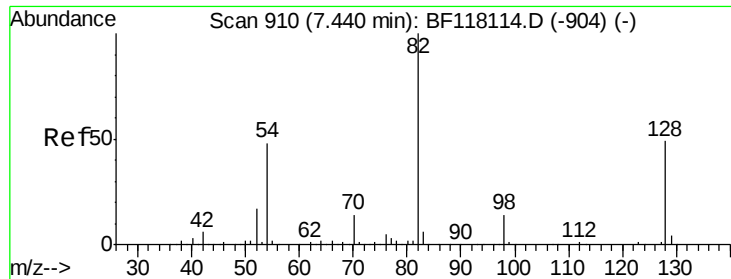
Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		474492		
71	6.1		4.7	7.1	
51	32.6		27.1	40.7	
120	22.3		17.8	26.6	





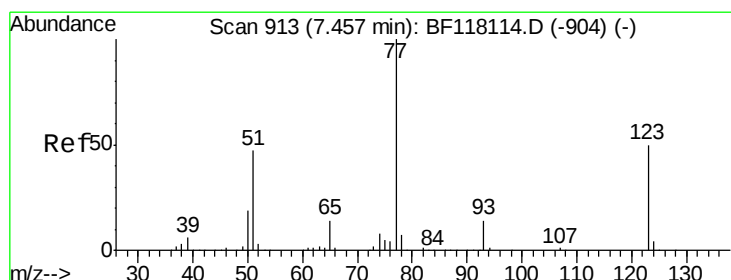
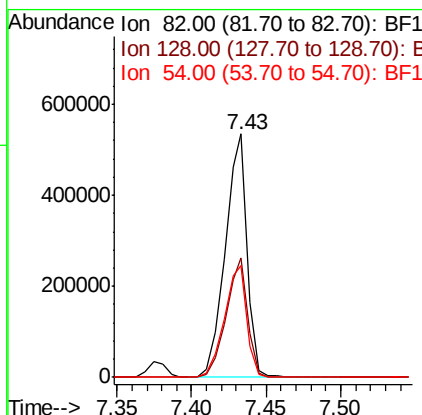
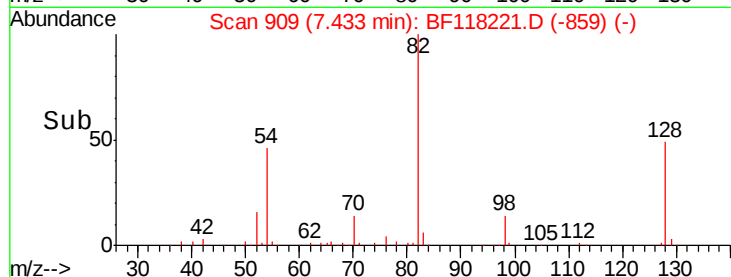
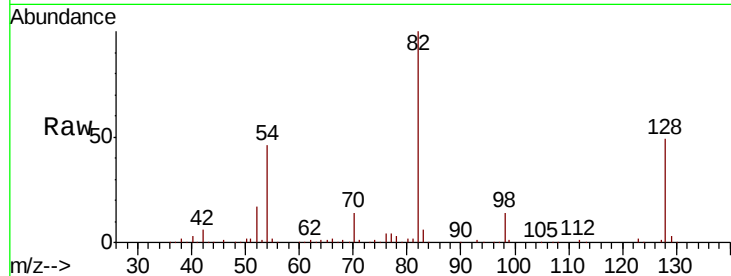
#23
Nitrobenzene-d5
Concen: 75.171 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
82	100	552986		
128	49.0		39.1	58.7
54	45.9		38.2	57.2

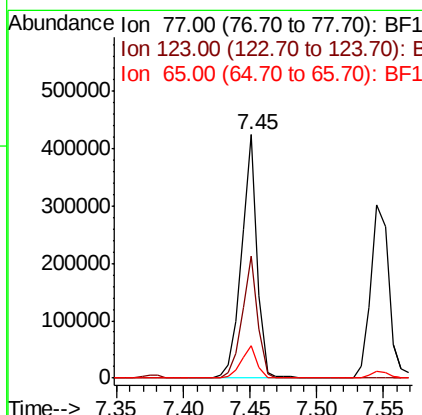
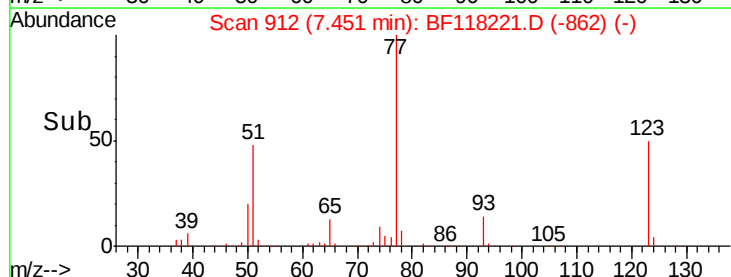
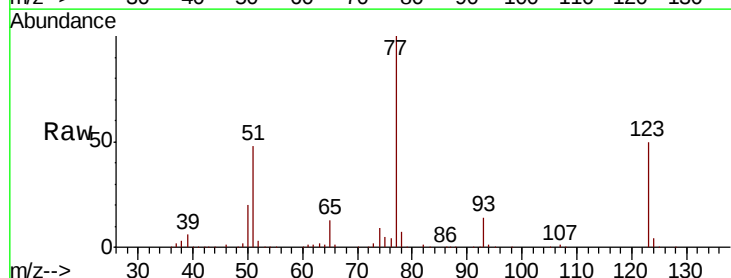
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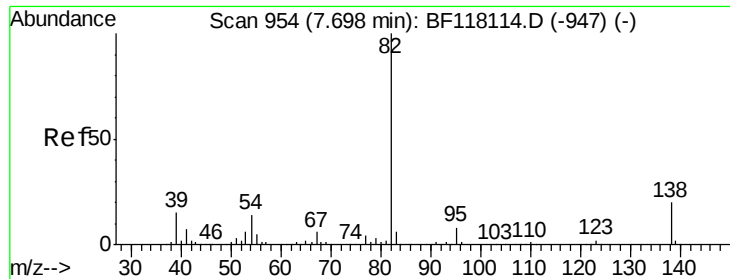
mohammad
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#24
Nitrobenzene
Concen: 47.454 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp	Lower	Upper
77	100	342978		
123	50.0		40.1	60.1
65	13.2		10.9	16.3





#25

Isophorone

Concen: 48.364 ng

RT: 7.69 min Scan# 953

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

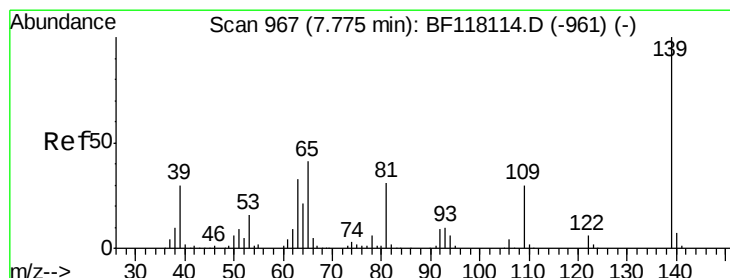
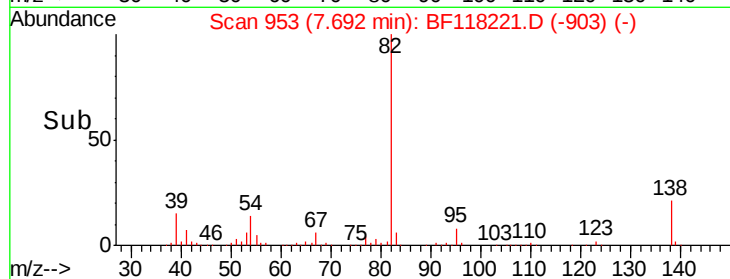
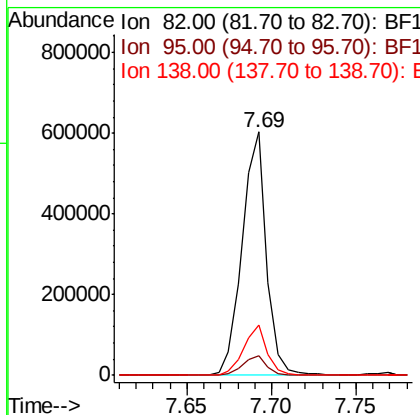
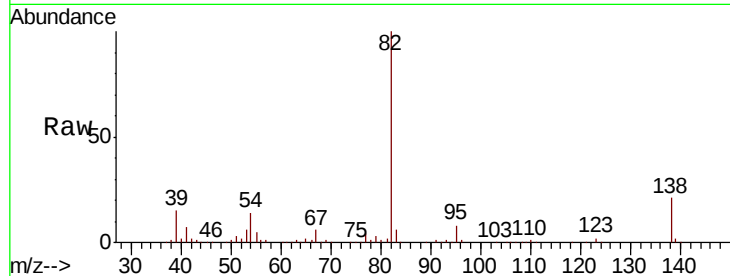
ClientSampleId :

42-SPRUCEMSD

Tot Ion:	82	Resp:	603133
Ion Ratio		Lower	Upper
82	100		
95	8.0	6.3	9.5
138	20.7	16.3	24.5

Manual Integrations
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#26

2-Nitrophenol

Concen: 49.913 ng

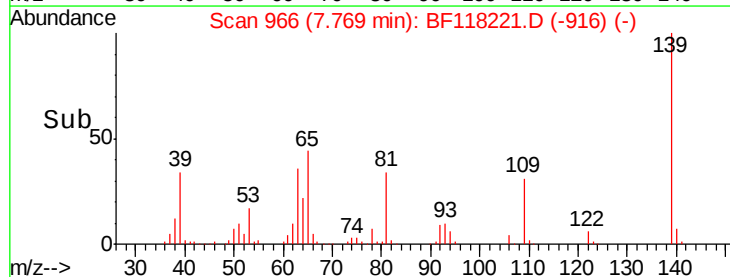
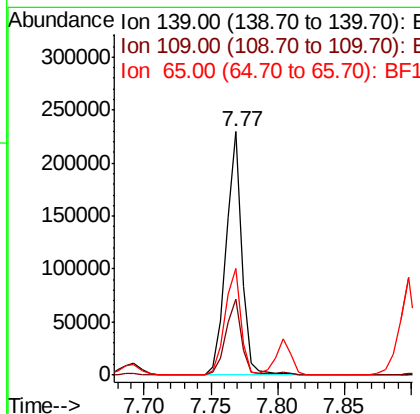
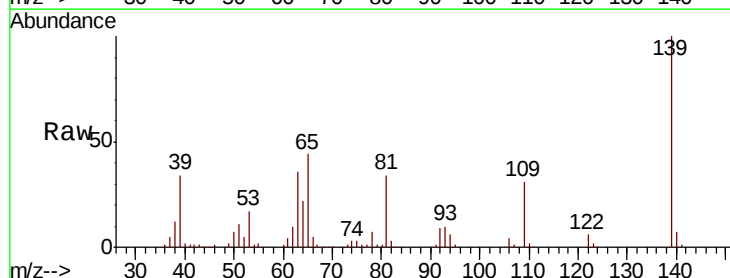
RT: 7.77 min Scan# 966

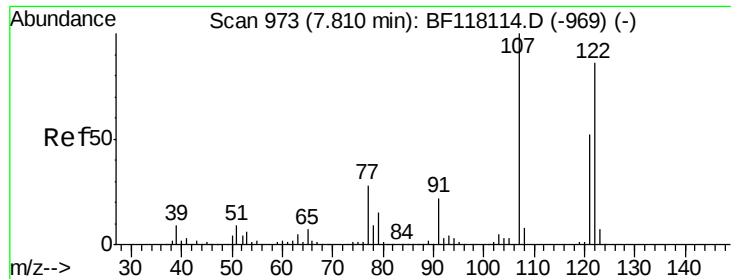
Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion:	139	Resp:	192818
Ion Ratio		Lower	Upper
139	100		
109	31.4	23.9	35.9
65	43.8	33.0	49.6





#27

2,4-Dimethylphenol

Concen: 56.474 ng

RT: 7.80 min Scan# 972

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

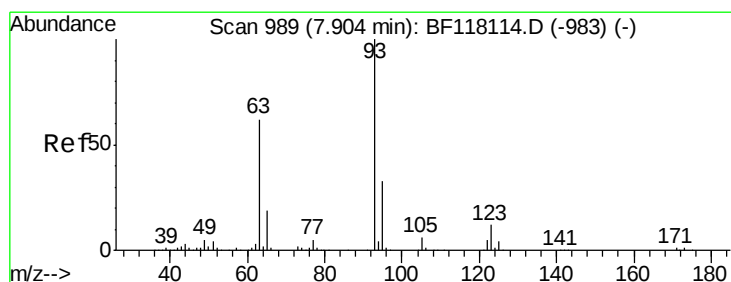
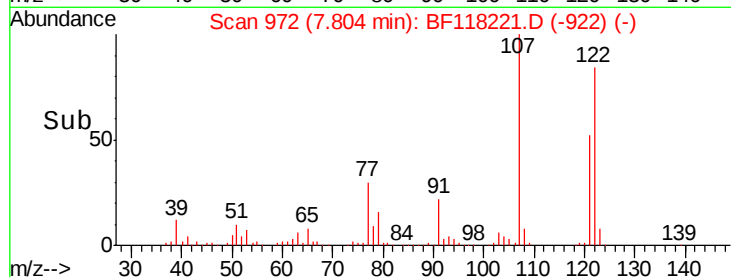
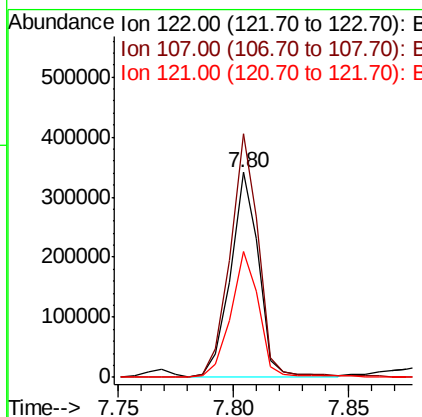
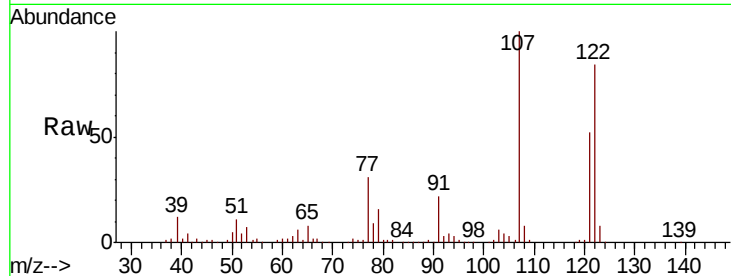
ClientSampleId :

42-SPRUCEMSD

Tot Ion:	122	Resp:	291004
Ion Ratio	Lower	Upper	
122	100		
107	118.9	92.9	139.3
121	61.7	48.3	72.5

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#28

bis(2-Chloroethoxy)methane

Concen: 46.168 ng

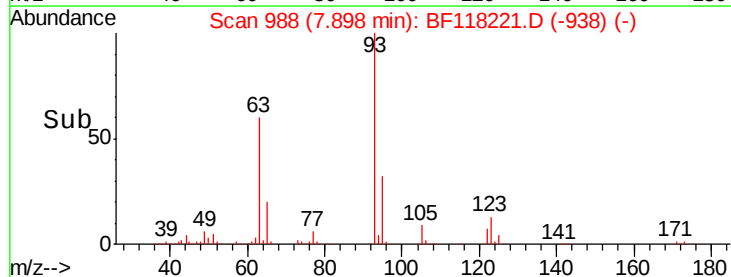
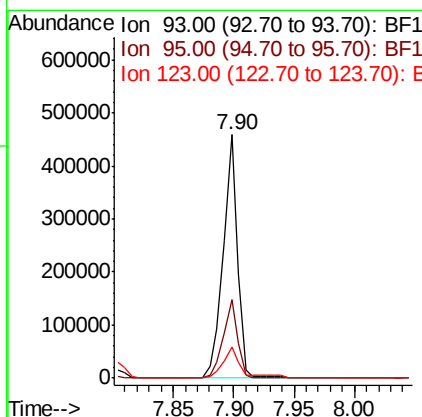
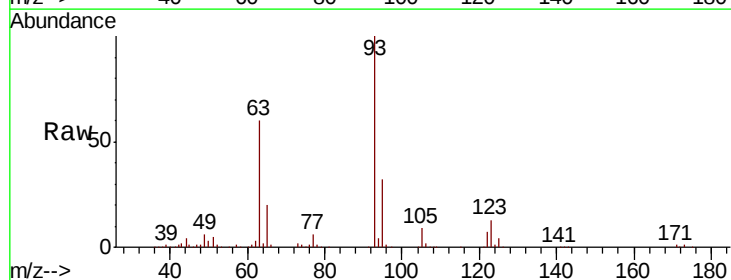
RT: 7.90 min Scan# 988

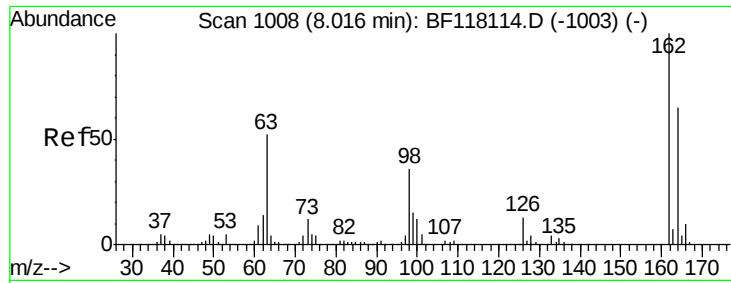
Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion:	93	Resp:	376207
Ion Ratio	Lower	Upper	
93	100		
95	32.5	26.7	40.1
123	12.8	10.0	15.0





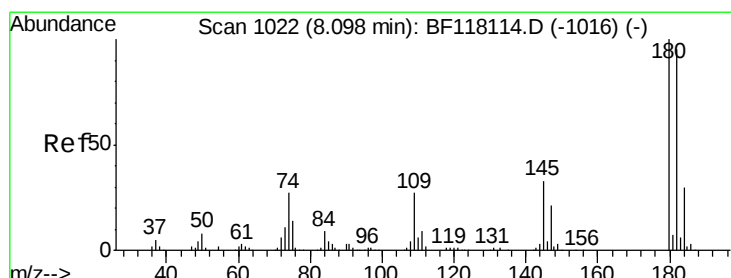
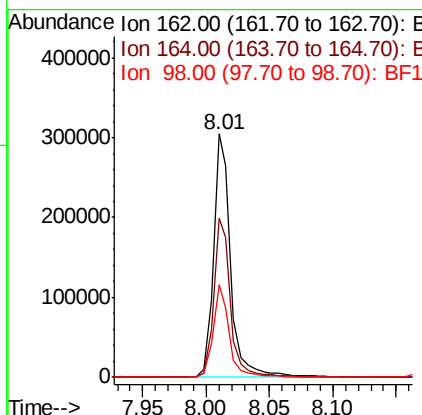
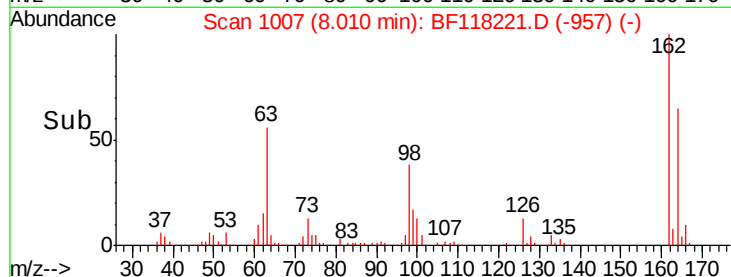
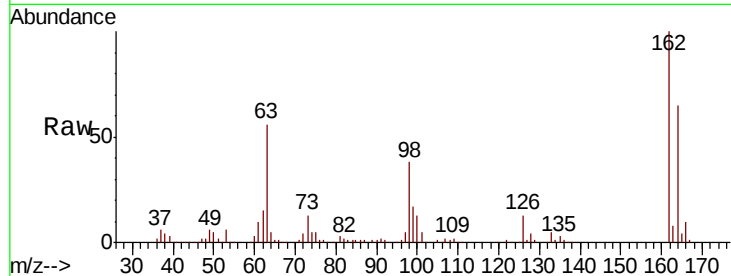
#29
 2,4-Dichlorophenol
 Concen: 48.734 ng
 RT: 8.01 min Scan# 1007
 Delta R.T. -0.01 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion:	162	Resp:	292751
Ion Ratio	Lower	Upper	
162	100		
164	65.3	45.2	85.2
98	38.1	15.9	55.9

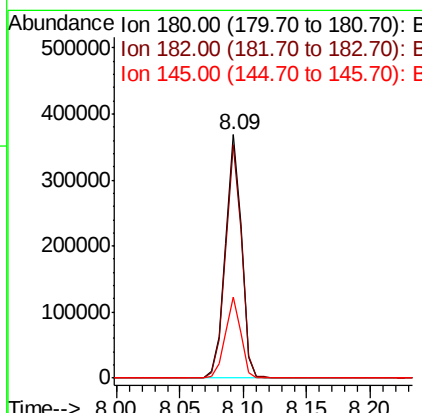
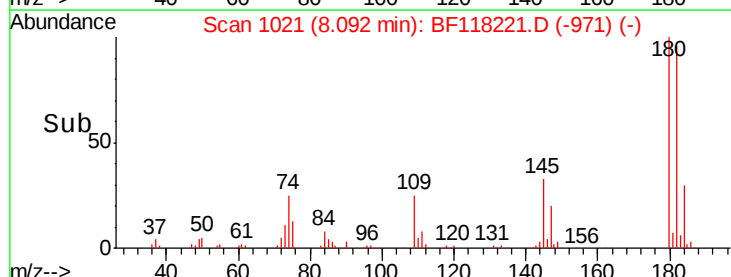
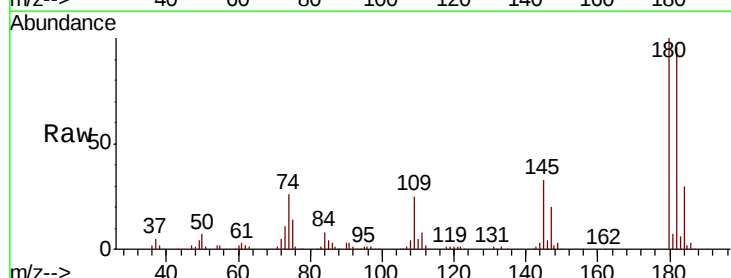
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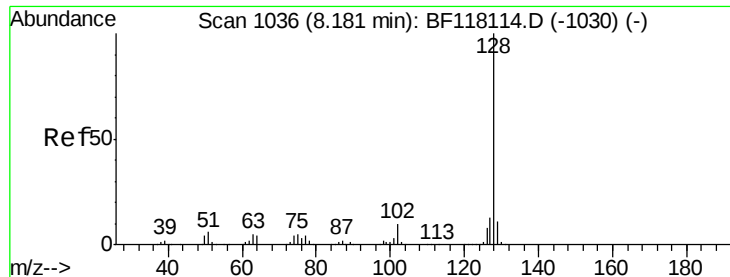
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#30
 1,2,4-Trichlorobenzene
 Concen: 46.237 ng
 RT: 8.09 min Scan# 1021
 Delta R.T. -0.01 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Tgt Ion:	180	Resp:	324596
Ion Ratio	Lower	Upper	
180	100		
182	96.1	76.1	114.1
145	33.1	26.1	39.1





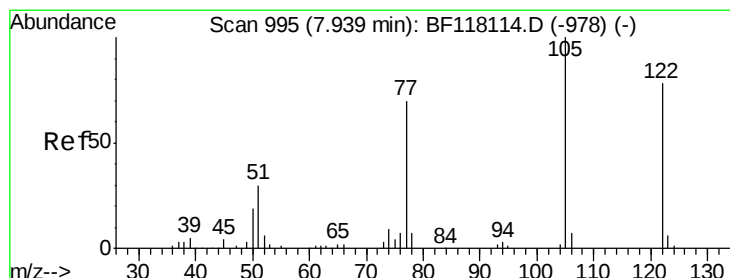
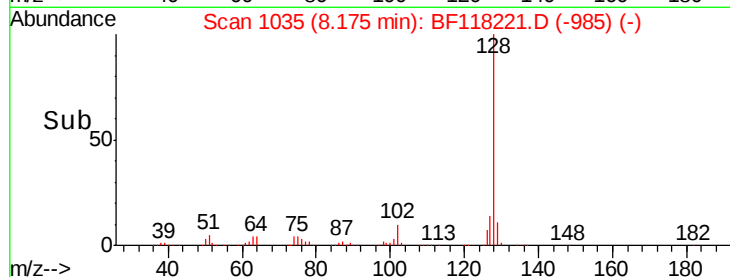
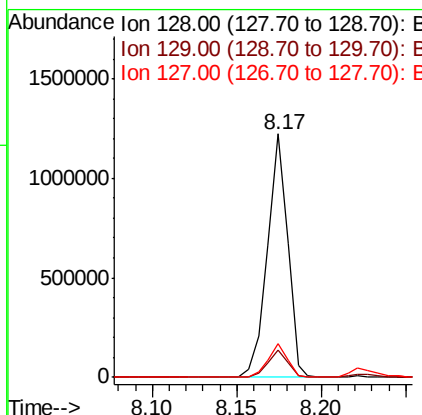
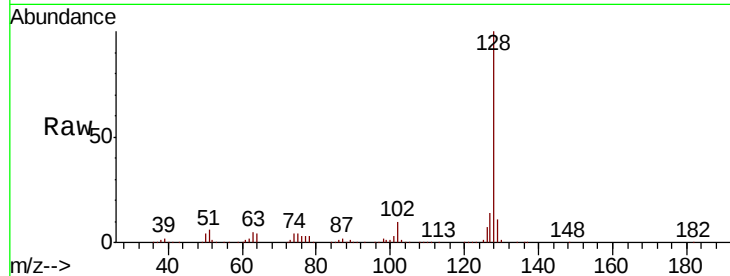
#31
Naphthalene
Concen: 48.943 ng
RT: 8.17 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.1	13.7
127	13.6	10.6	16.0

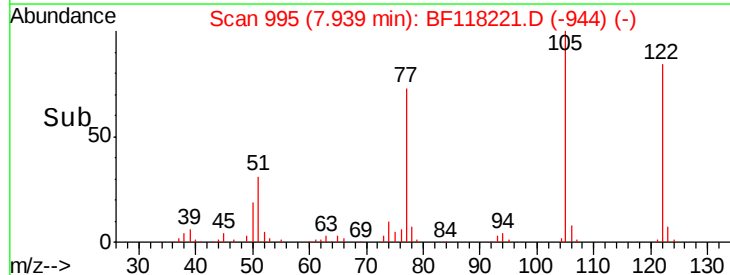
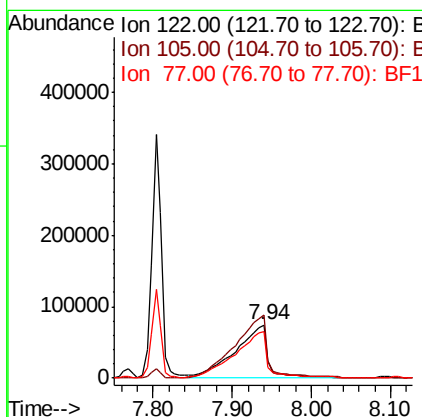
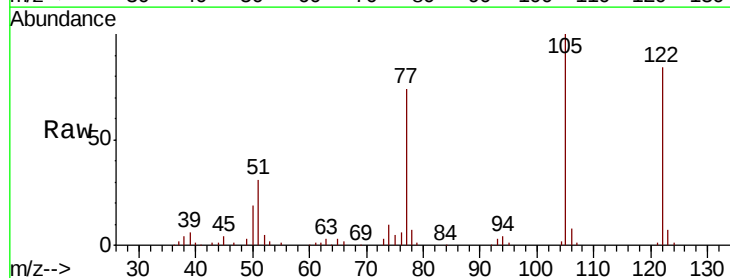
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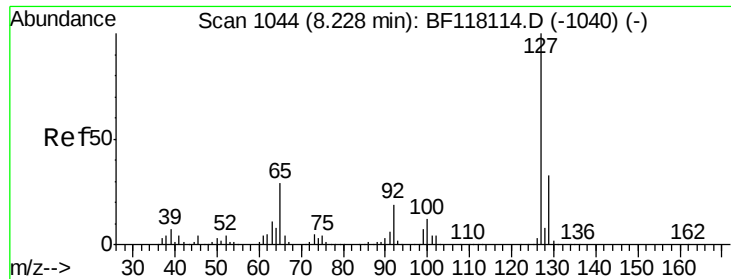
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#32
Benzoic acid
Concen: 45.170 ng
RT: 7.94 min Scan# 995
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
122	100		
105	119.1	104.7	144.7
77	88.6	69.1	109.1





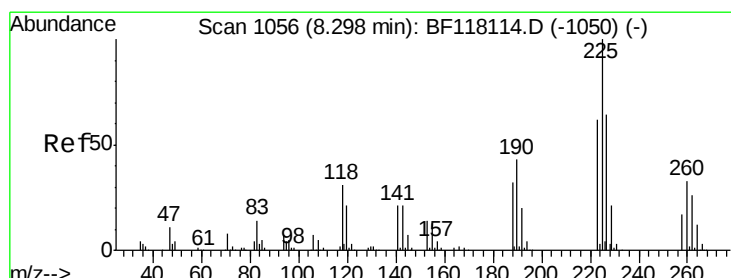
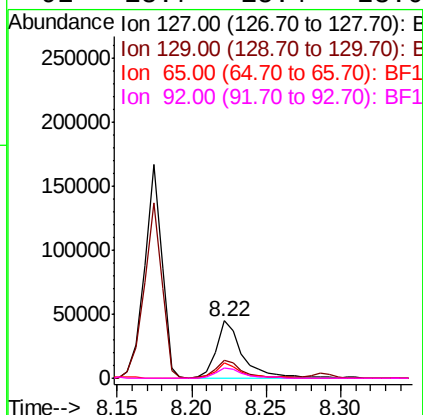
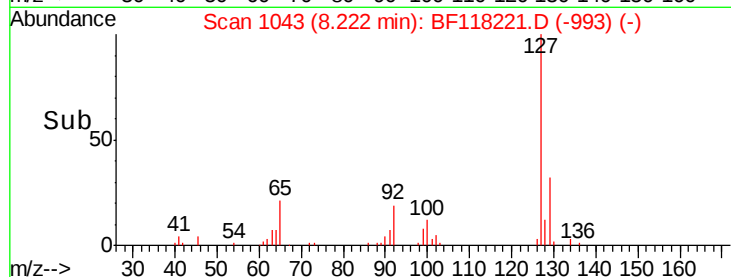
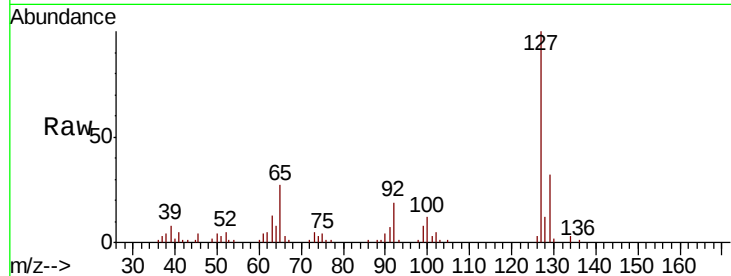
#33
4-Chloroaniline
Concen: 6.103 ng
RT: 8.22 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100				
129	32.4	26.6	40.0		
65	26.7	23.2	34.8		
92	18.7	15.4	23.0		

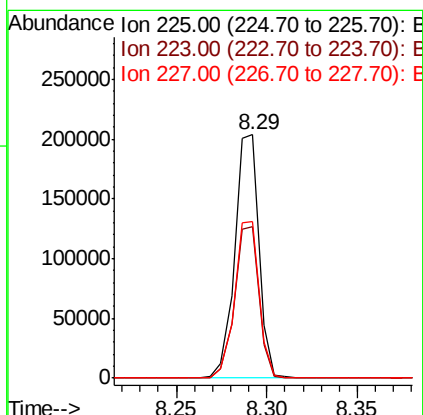
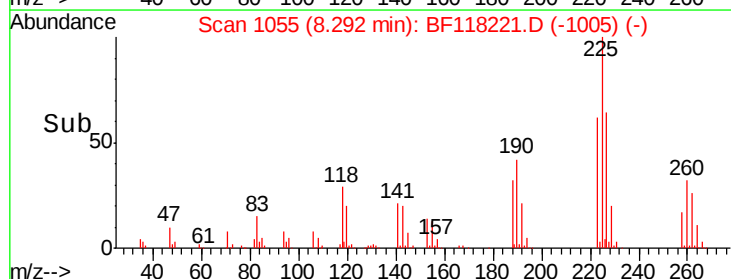
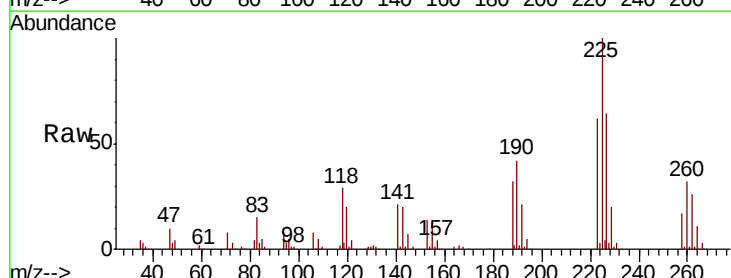
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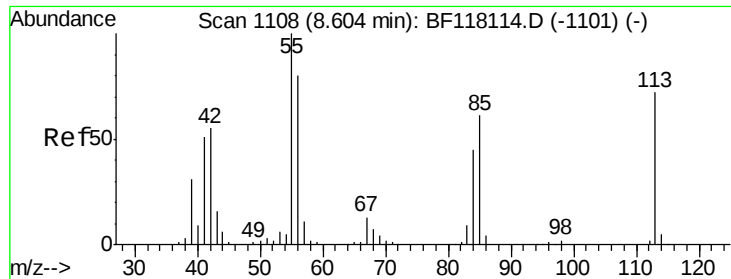
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#34
Hexachlorobutadiene
Concen: 44.950 ng
RT: 8.29 min Scan# 1055
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
225	100				
223	62.2	49.6	74.4		
227	64.1	51.0	76.6		





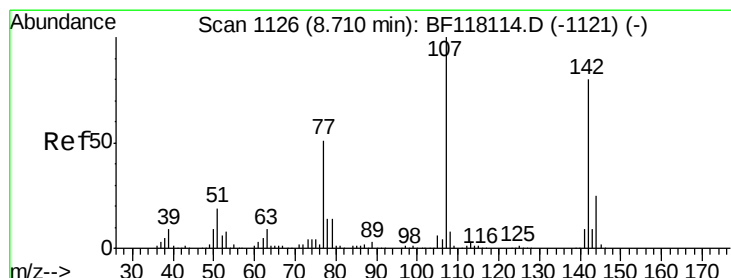
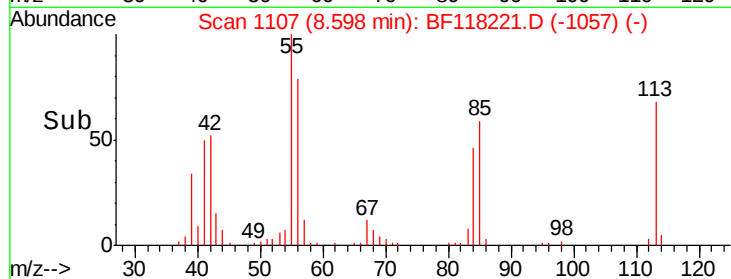
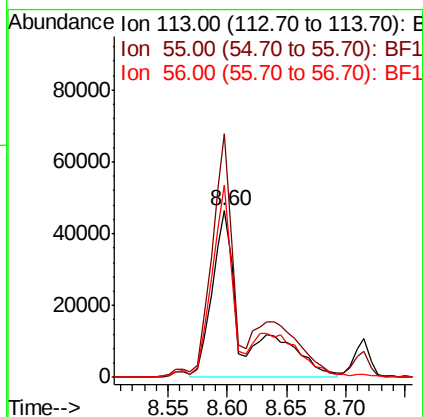
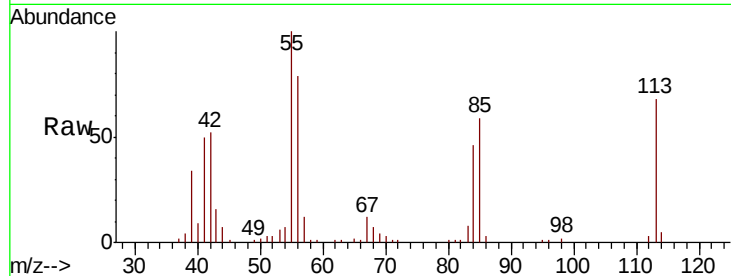
#35
Caprolactam
Concen: 47.917 ng/ml
RT: 8.60 min Scan# 1107
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ion	Ratio	Lower	Upper
113	100			
55	146.3	118.9	158.9	
56	115.7	91.4	131.4	

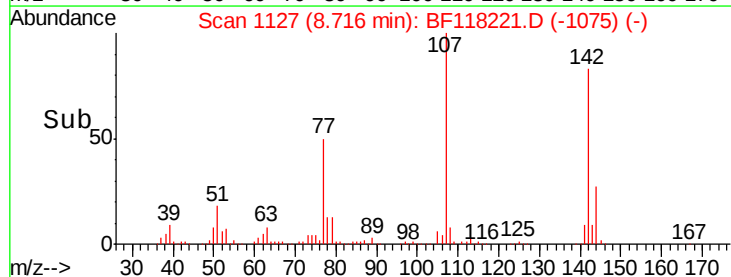
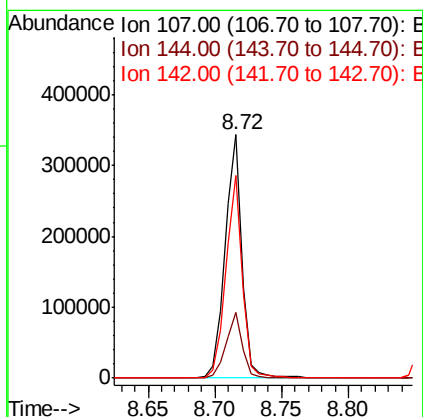
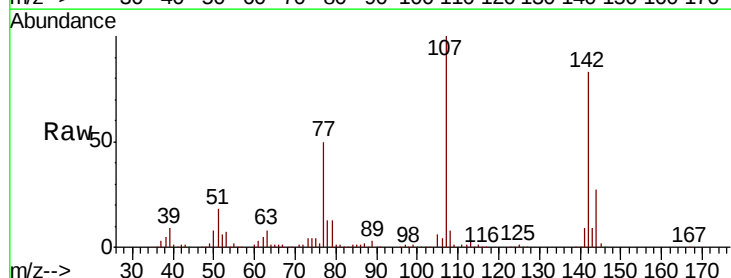
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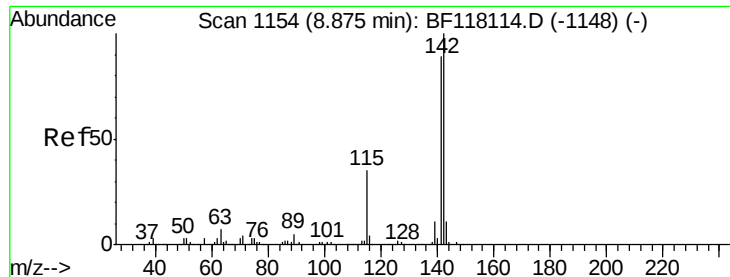
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#36
4-Chloro-3-methylphenol
Concen: 48.727 ng/ml
RT: 8.72 min Scan# 1127
Delta R.T. 0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ion	Ratio	Lower	Upper
107	100			
144	27.2	20.3	30.5	
142	83.1	63.7	95.5	





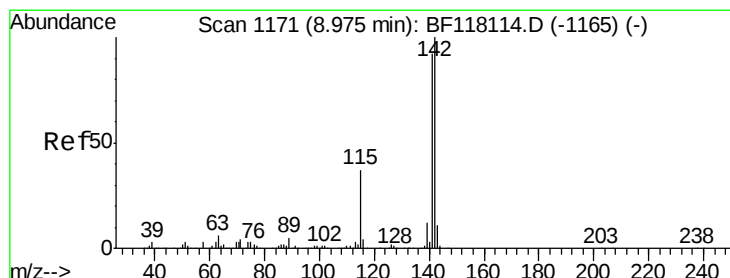
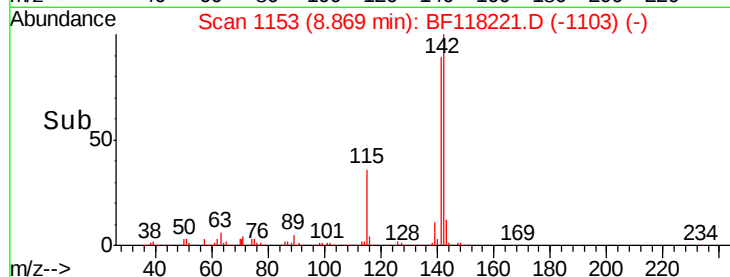
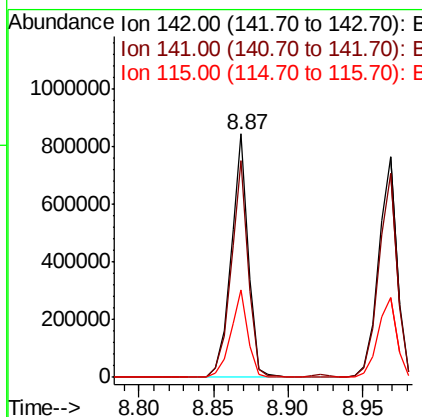
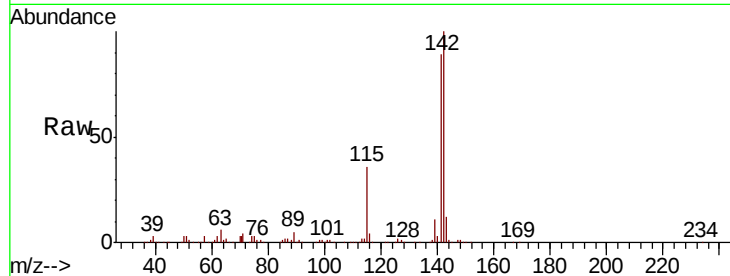
#37
2-Methylnaphthalene
Concen: 48.859 ng
RT: 8.87 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.4	107.0
115	35.8	28.2	42.4

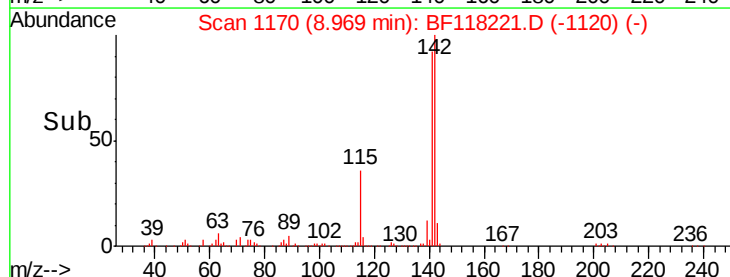
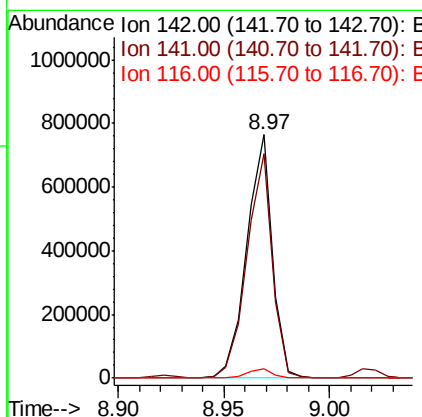
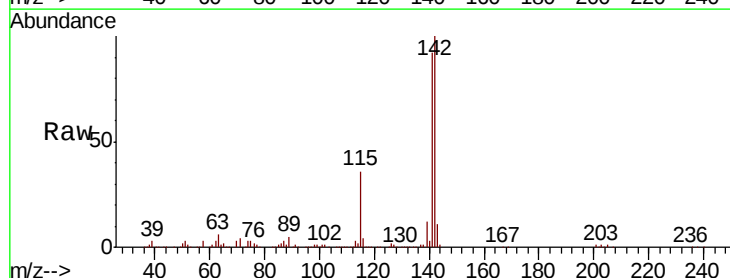
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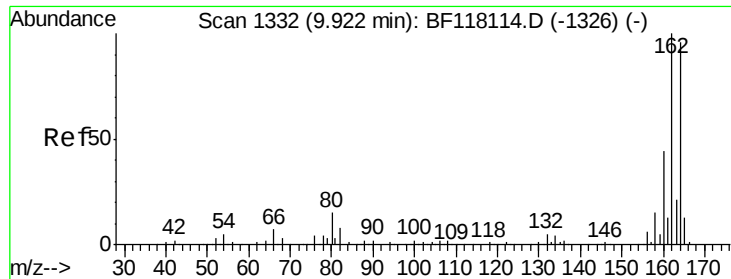
mohammad
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#38
1-Methylnaphthalene
Concen: 48.417 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.4	74.0	111.0
116	3.9	3.2	4.8





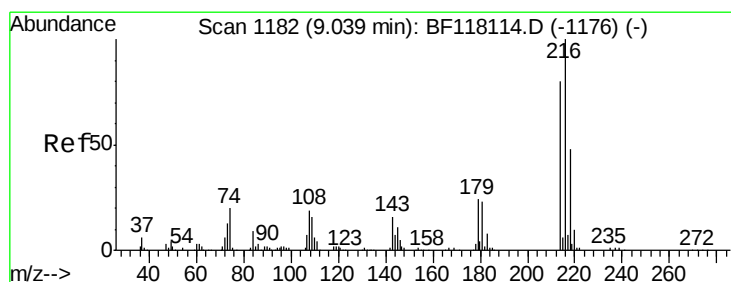
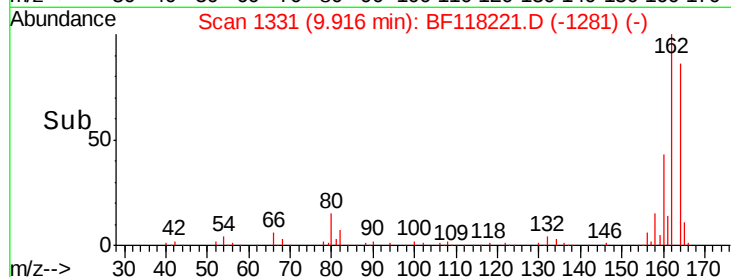
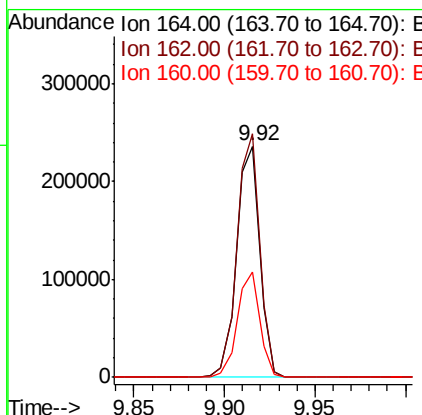
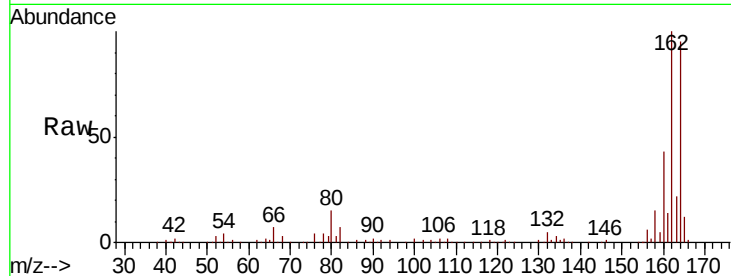
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
162	105.2	83.4	125.0	
160	45.4	36.6	54.8	

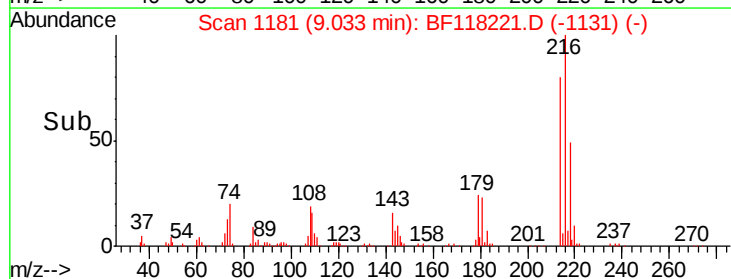
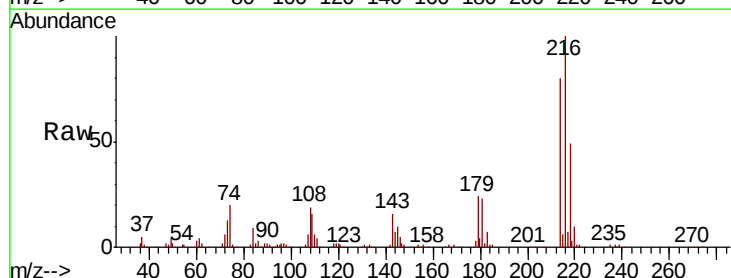
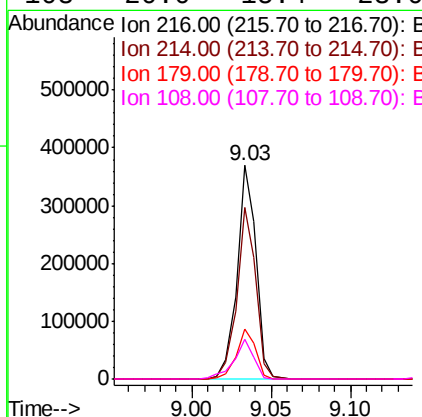
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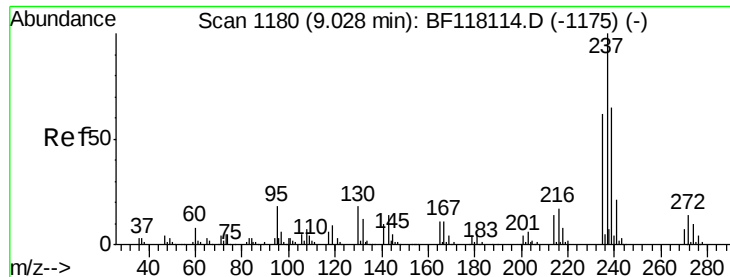
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#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.105 ng
RT: 9.03 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp	Lower	Upper
216	100			
214	79.9	63.4	95.2	
179	23.7	18.6	27.8	
108	20.0	15.4	23.0	





#41

Hexachlorocyclopentadiene

Concen: 73.079 ng

RT: 9.02 min Scan# 1179

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

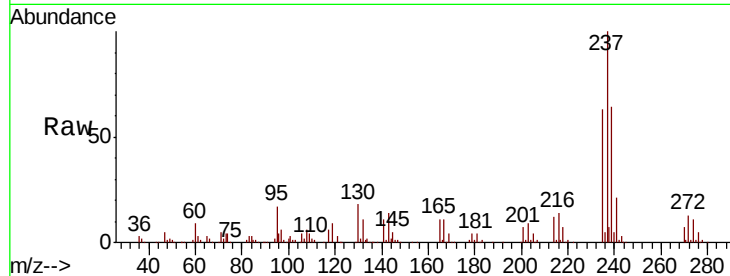
ClientSampleId :

42-SPRUCEMSD

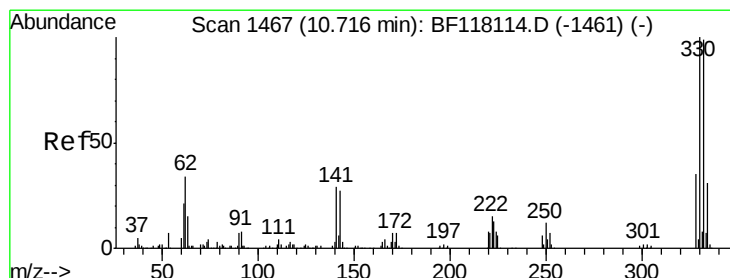
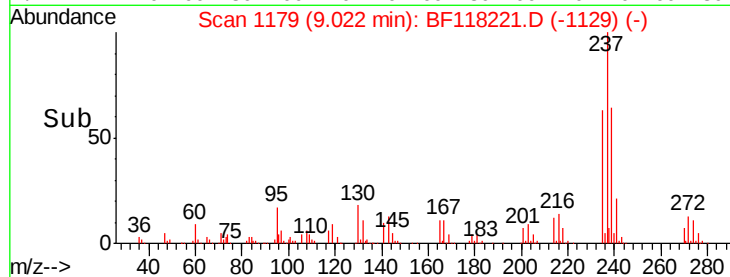
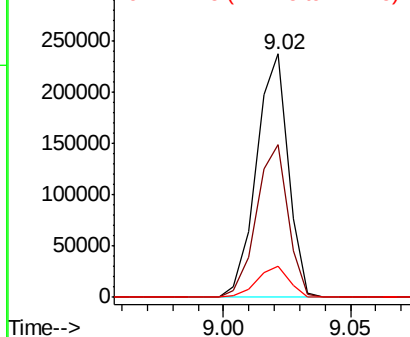
Tot Ion:	237	Resp:	208664
Ion Ratio		Lower	Upper
237	100		
235	62.9	41.5	81.5
272	12.9	0.0	33.7

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Abundance Ion 236.80 (236.50 to 237.50): E
Ion 234.90 (234.60 to 235.60): E
Ion 271.75 (271.45 to 272.45): E



#42

2,4,6-Tribromophenol

Concen: 114.575 ng

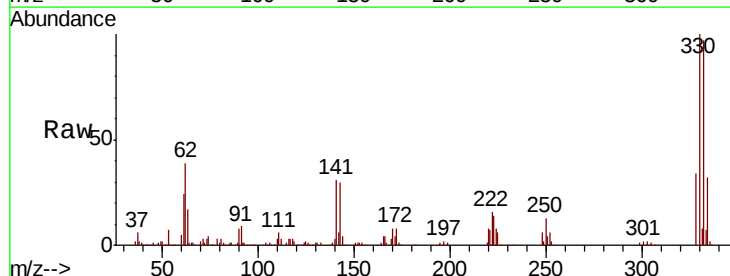
RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

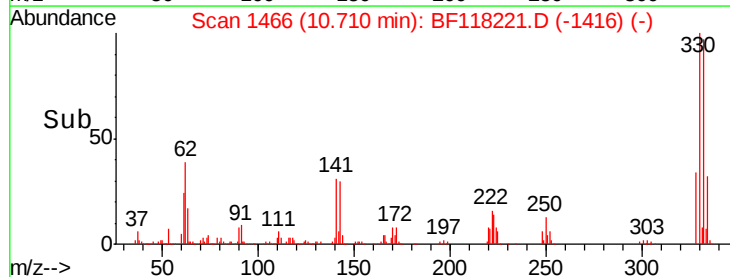
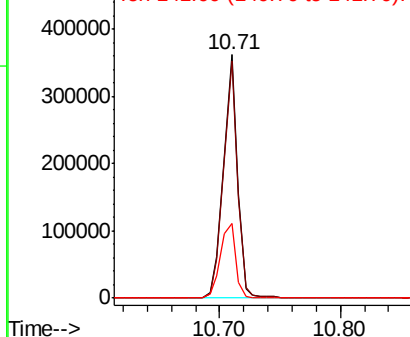
Lab File: BF118221.D

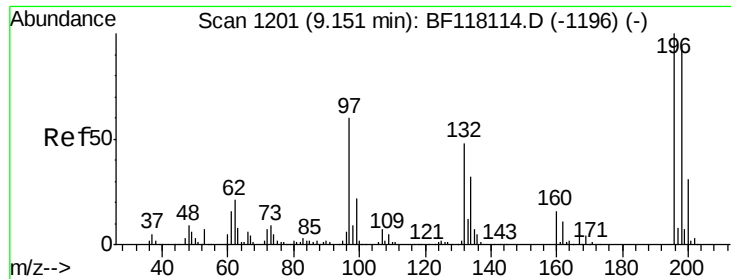
Acq: 17 Dec 2019 2:46

Tgt Ion:	330	Resp:	292807
Ion Ratio		Lower	Upper
330	100		
332	97.4	78.1	117.1
141	33.4	26.9	40.3



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E





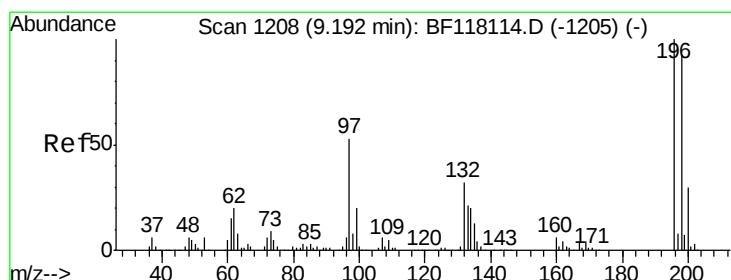
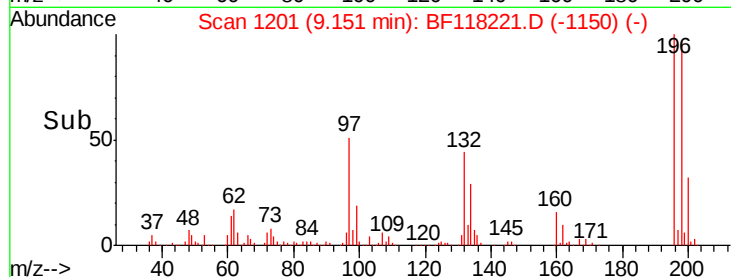
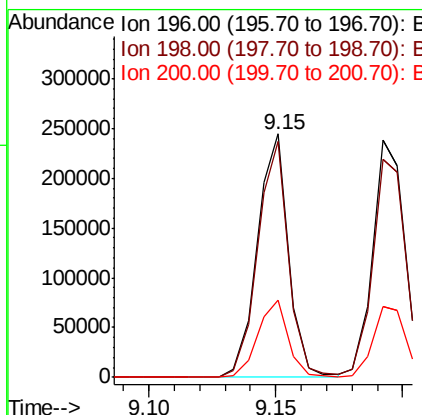
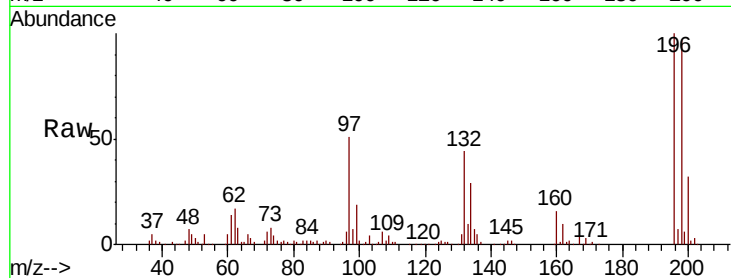
#43
 2,4,6-Trichlorophenol
 Concen: 49.080 ng
 RT: 9.15 min Scan# 1201
 Delta R.T. -0.00 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
196	100	208838		
198	96.8	75.0	112.4	
200	31.7	24.5	36.7	

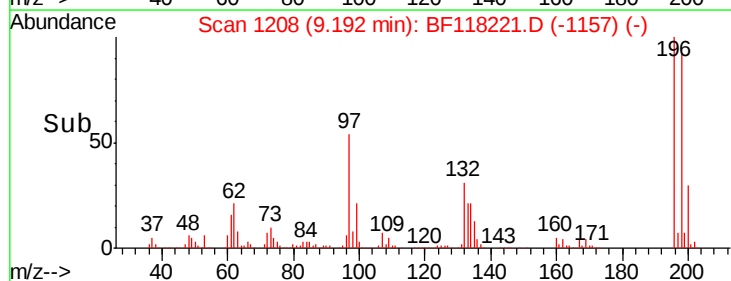
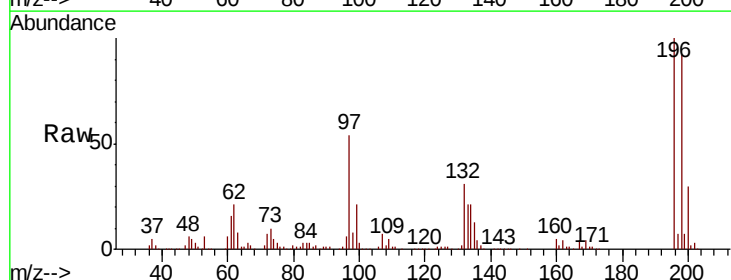
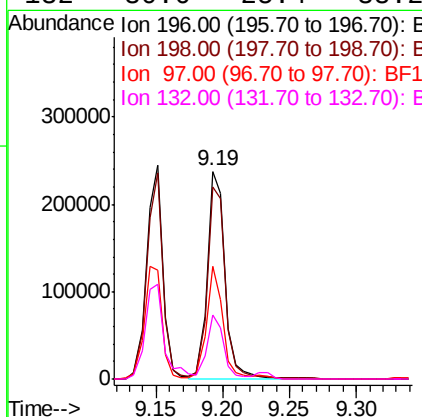
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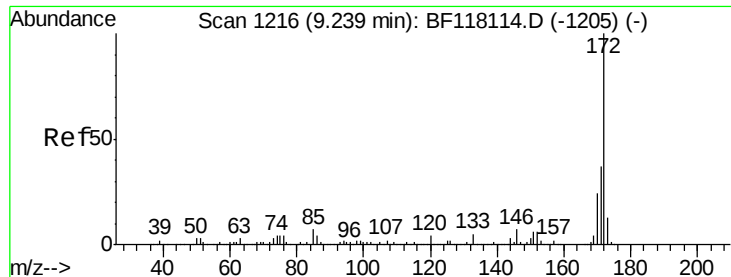
mohammad
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#44
 2,4,5-Trichlorophenol
 Concen: 50.532 ng
 RT: 9.19 min Scan# 1208
 Delta R.T. -0.00 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	222764		
198	92.3	74.2	111.4	
97	54.0	42.5	63.7	
132	30.6	25.4	38.2	





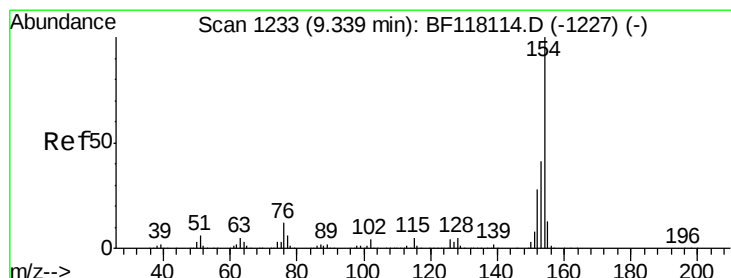
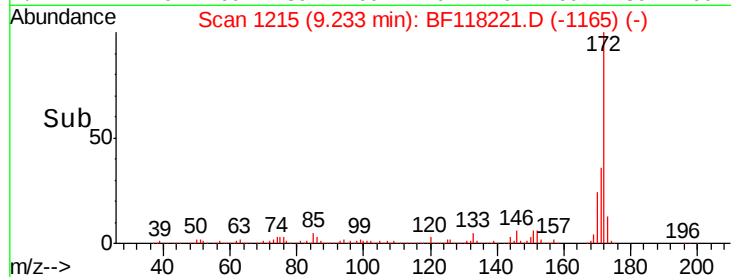
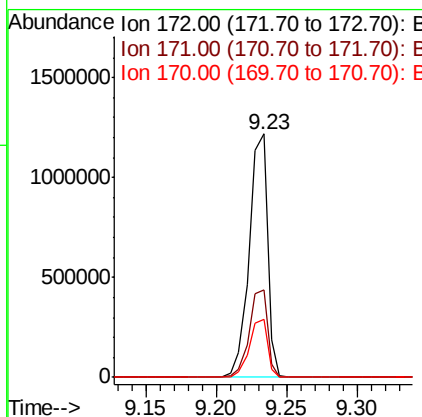
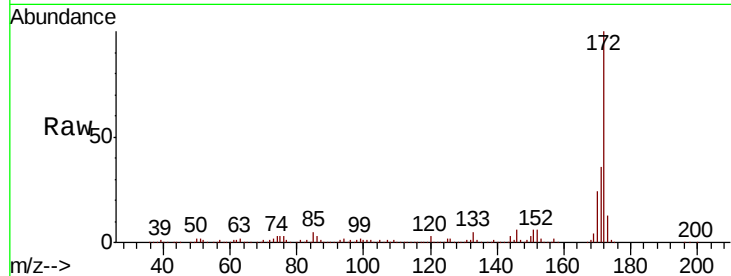
#45
2-Fluorobiphenyl
Concen: 80.902 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ion	Ratio	Lower	Upper
172	100			
171	36.1	29.2	43.8	
170	23.6	19.4	29.2	

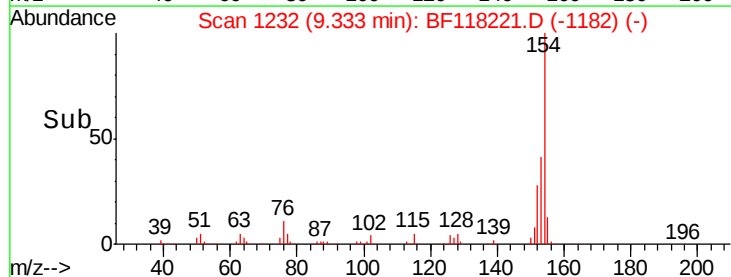
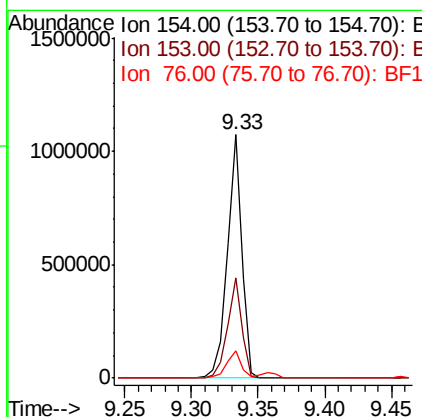
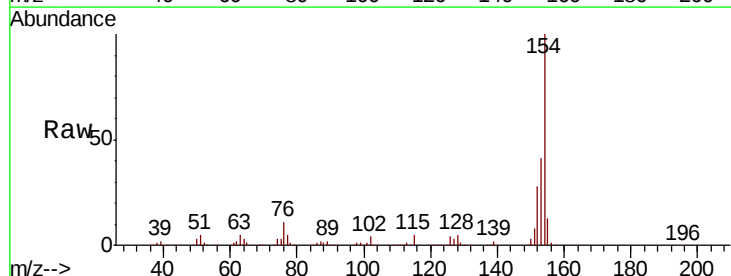
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#46
1,1'-Biphenyl
Concen: 49.903 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ion	Ratio	Lower	Upper
154	100			
153	41.1	20.7	60.7	
76	11.0	0.0	31.9	





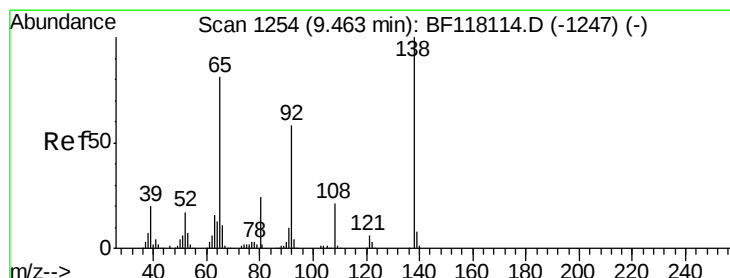
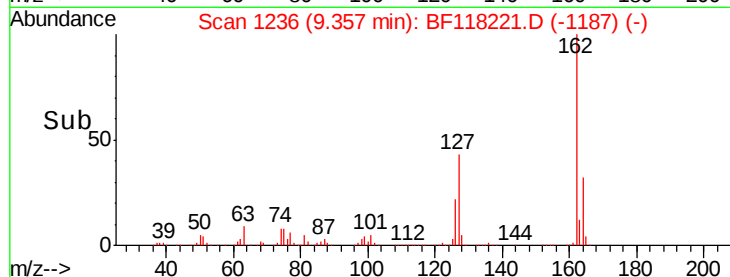
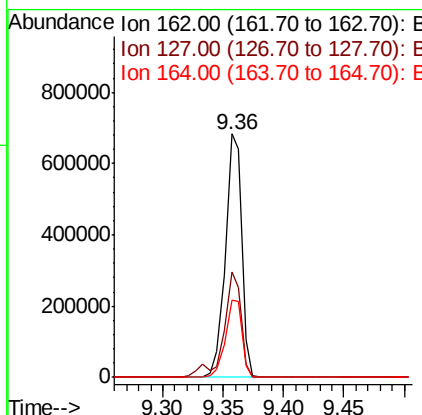
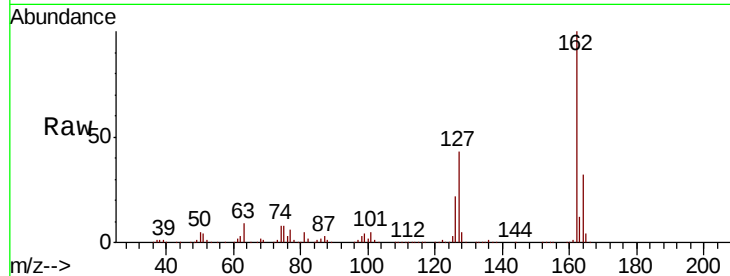
#47
2-Chloronaphthalene
Concen: 47.896 ng
RT: 9.36 min Scan# 1236
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
162	100	639233		
127	43.3	32.0	48.0	
164	31.8	26.1	39.1	

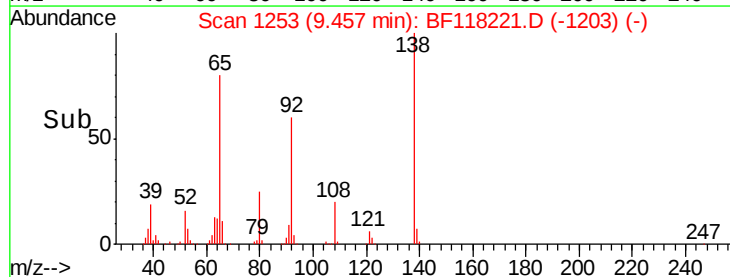
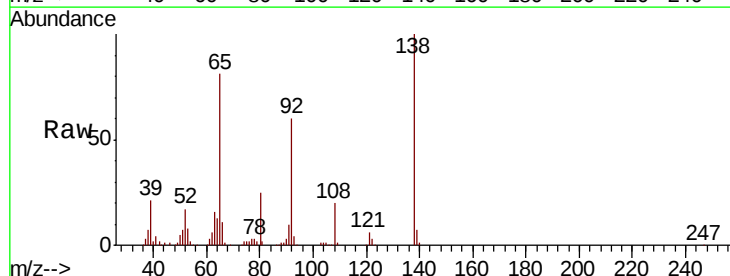
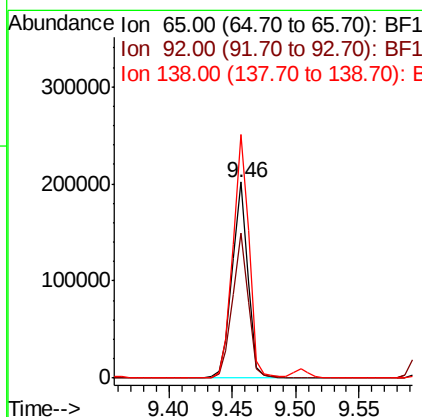
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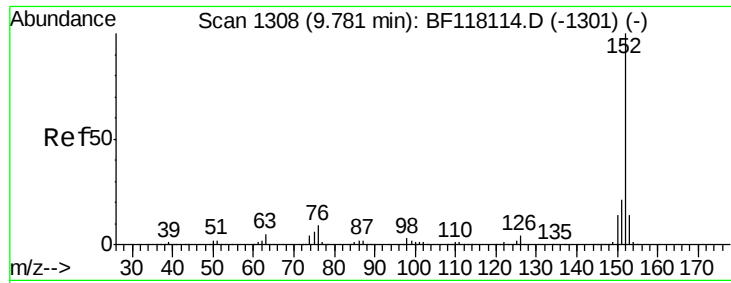
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#48
2-Nitroaniline
Concen: 45.612 ng
RT: 9.46 min Scan# 1253
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	173600		
92	74.2	57.8	86.6	
138	124.2	98.8	148.2	





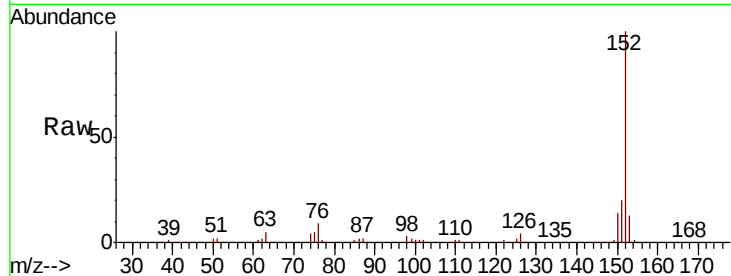
#49
Acenaphthylene
Concen: 51.917 ng
RT: 9.77 min Scan# 1307
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

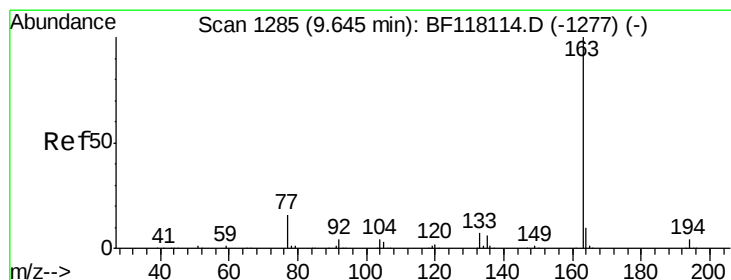
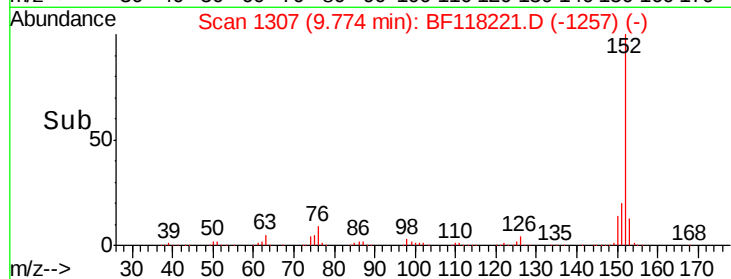
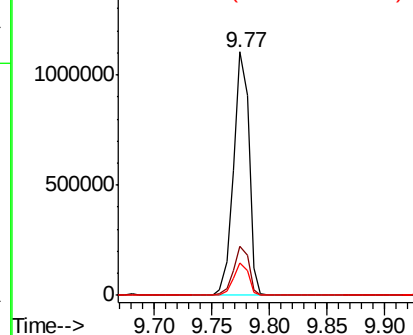
Tot Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.4	24.6
153	13.2	10.8	16.2

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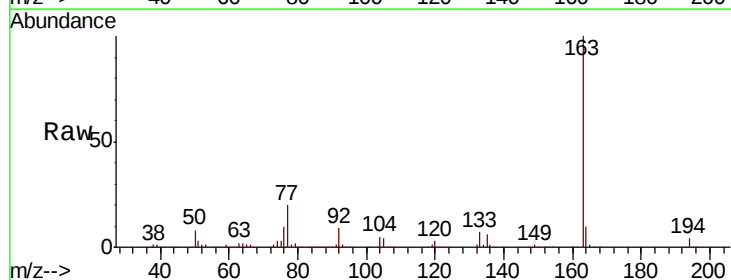


Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E

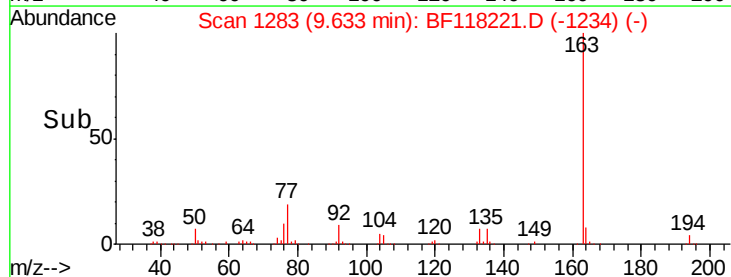
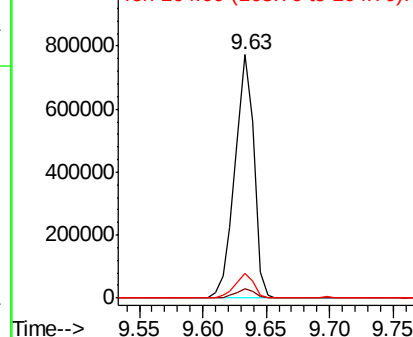


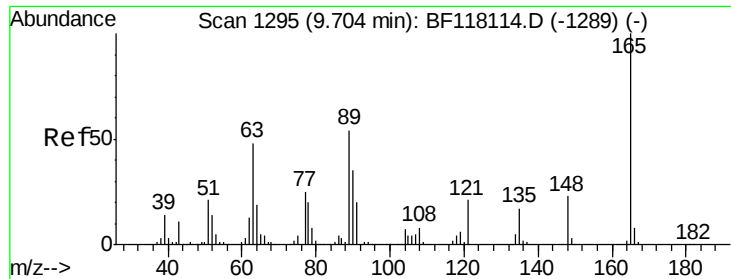
#50
Dimethylphthalate
Concen: 51.216 ng
RT: 9.63 min Scan# 1283
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.1	4.7
164	10.3	7.7	11.5



Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E





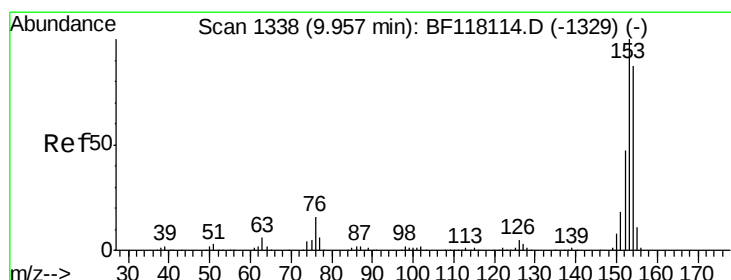
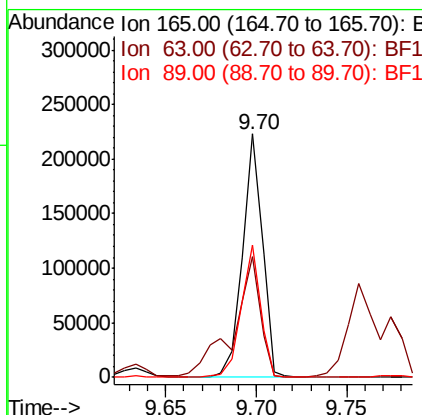
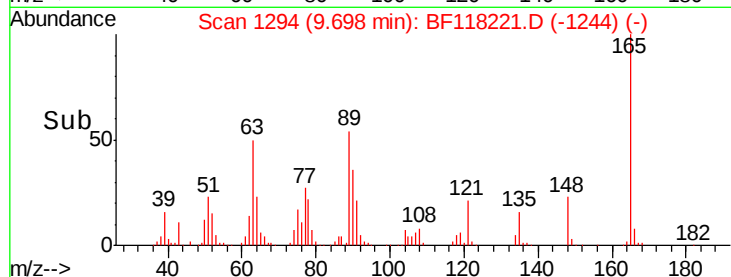
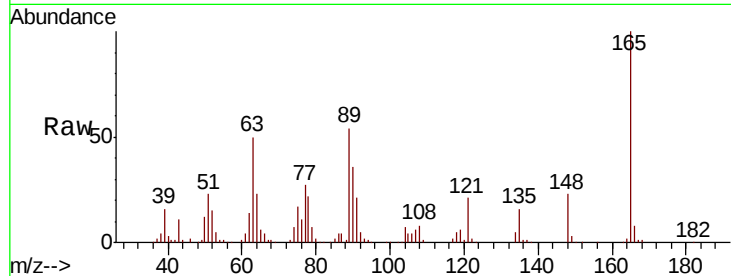
#51
2,6-Dinitrotoluene
Concen: 50.311 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp Lower	Upper
165	100		
63	49.6	41.4	62.0
89	54.3	42.9	64.3

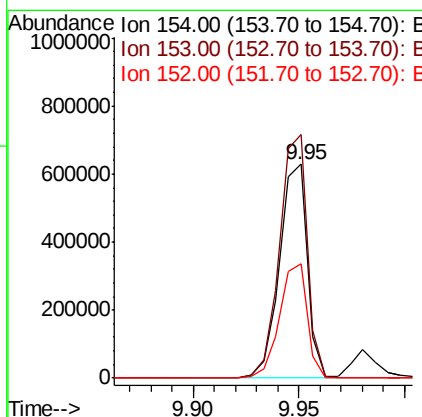
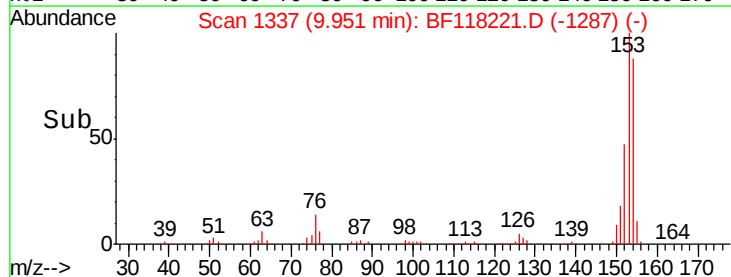
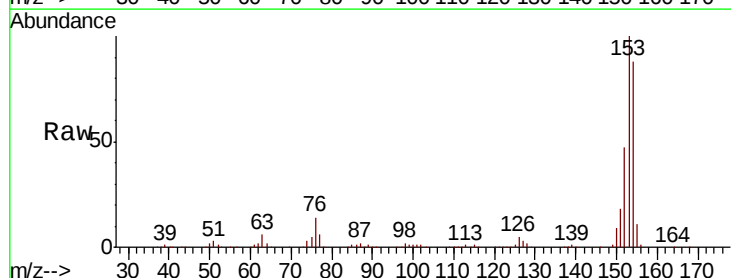
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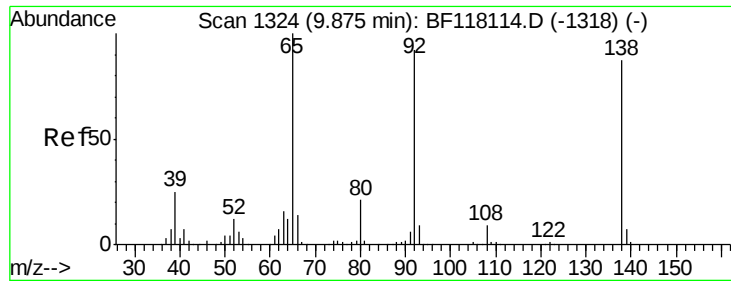
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#52
Acenaphthene
Concen: 48.280 ng
RT: 9.95 min Scan# 1337
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp Lower	Upper
154	100		
153	113.8	91.8	137.6
152	53.3	43.3	64.9





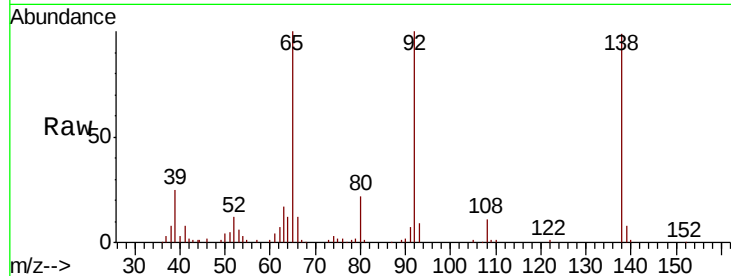
#53
3-Nitroaniline
Concen: 16.931 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
138	100		
108	10.9	8.2	12.4
92	100.2	84.9	127.3

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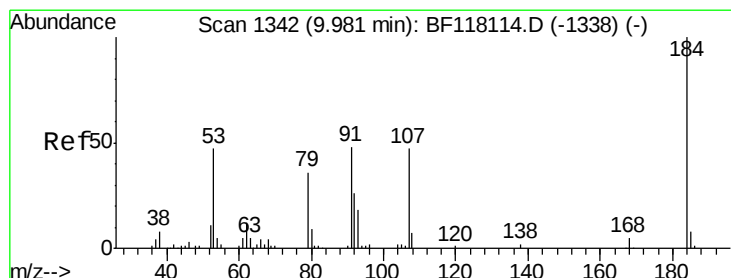
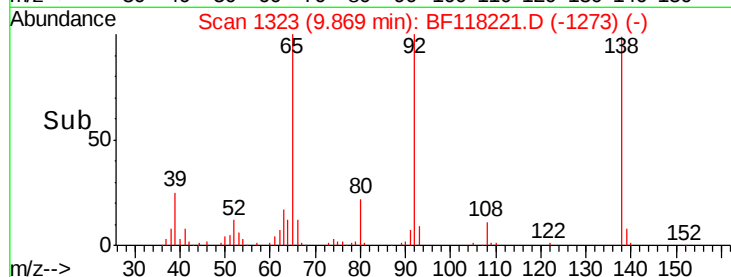
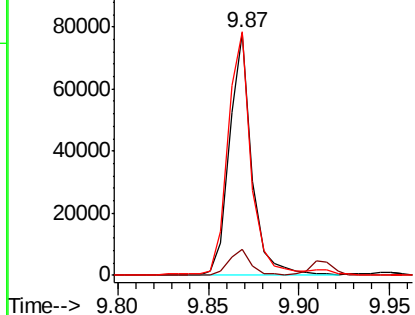


Abundance

Ion 138.00 (137.70 to 138.70): E

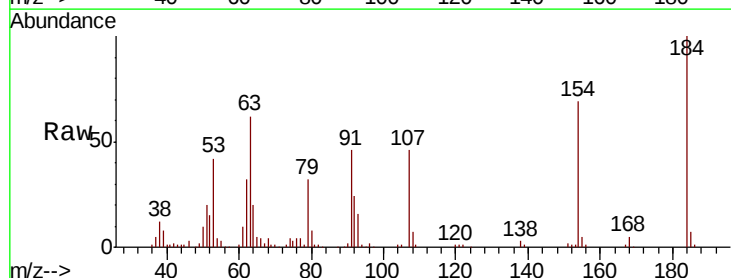
Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54
2,4-Dinitrophenol
Concen: 63.403 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
184	100		
63	61.7	53.9	80.9
154	69.1	56.3	84.5

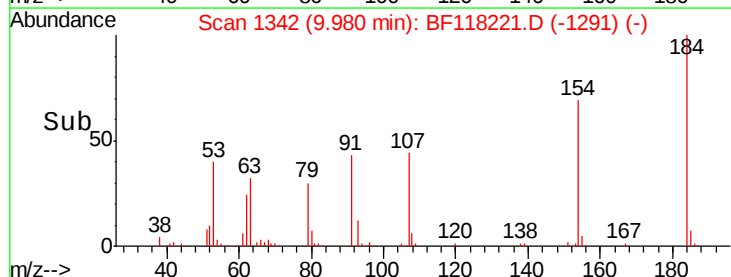
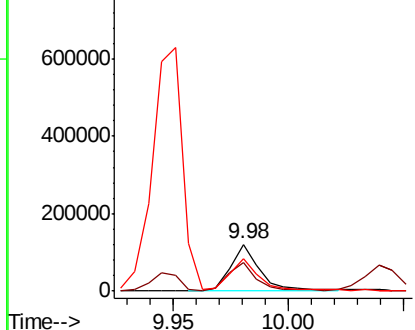


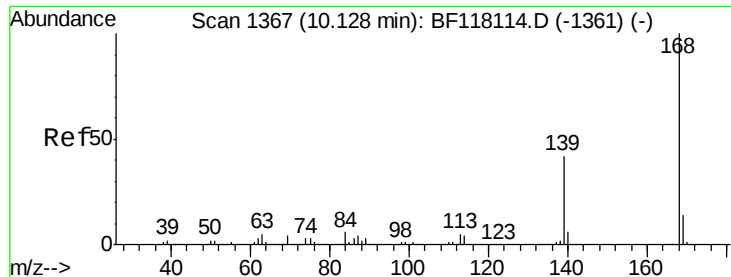
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





#55

Dibenzofuran

Concen: 49.956 ng

RT: 10.12 min Scan# 1366

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMSD

Tot Ion:168 Resp: 879490

Ion Ratio Lower Upper

168 100

139 41.3 33.4 50.0

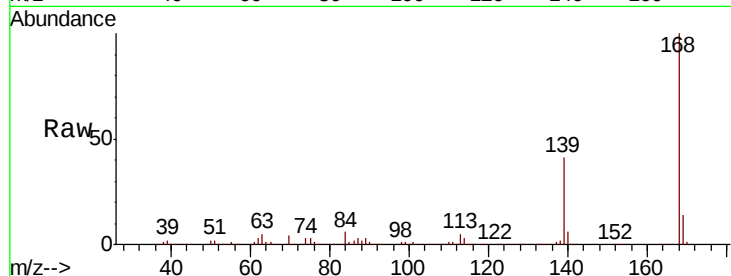
169 13.6 11.0 16.6

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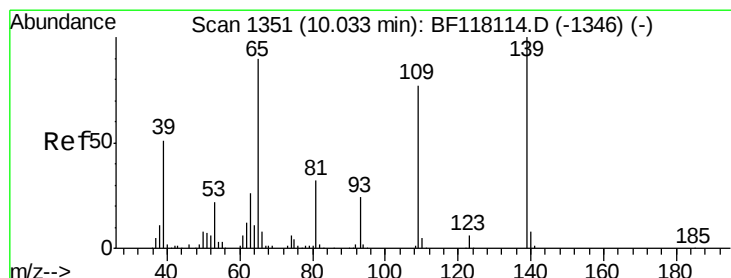
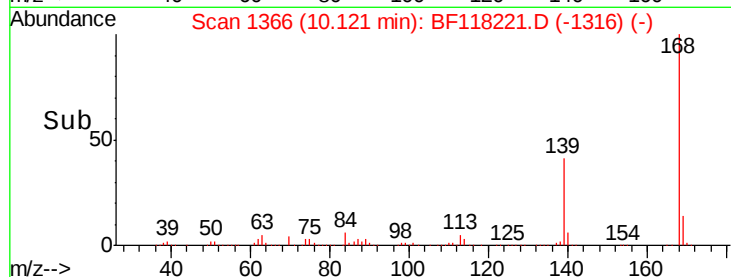
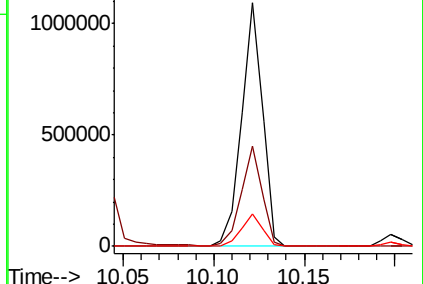
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56

4-Nitrophenol

Concen: 89.859 ng

RT: 10.04 min Scan# 1352

Delta R.T. 0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

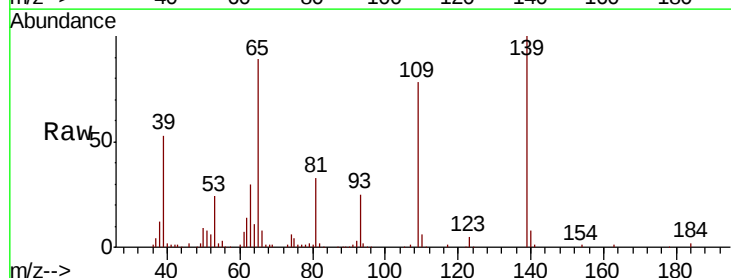
Tgt Ion:139 Resp: 247968

Ion Ratio Lower Upper

139 100

109 78.1 57.3 97.3

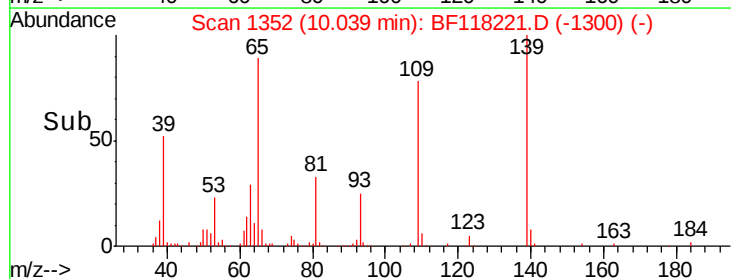
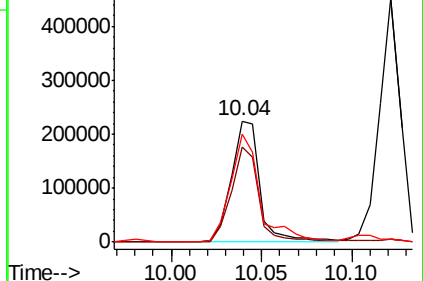
65 89.5 70.2 110.2

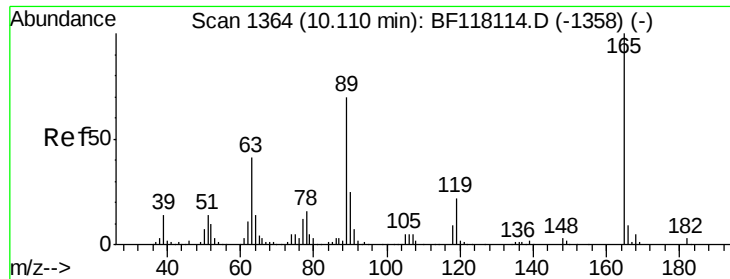


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





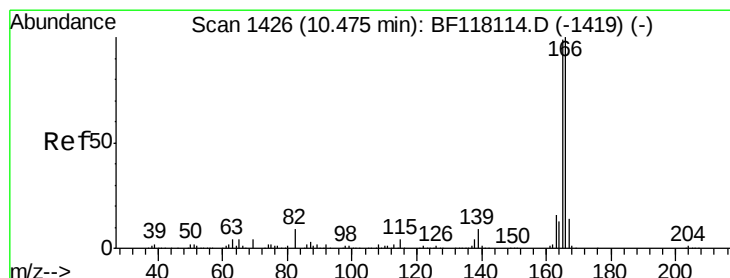
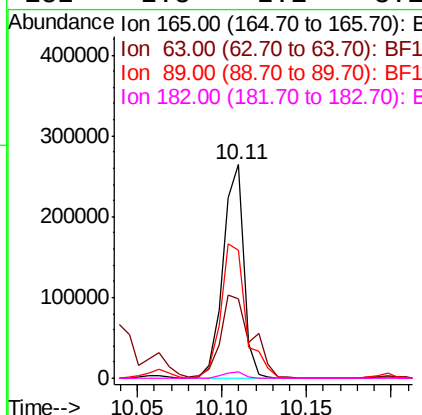
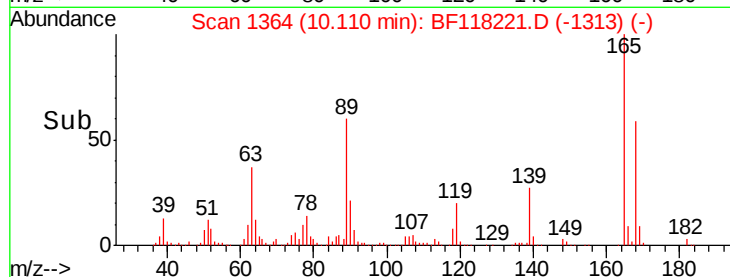
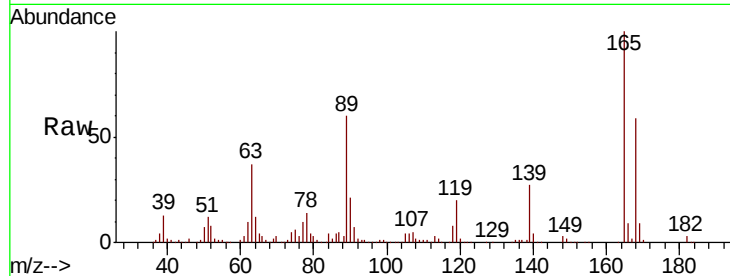
#57
2,4-Dinitrotoluene
Concen: 50.114 ng
RT: 10.11 min Scan# 1364
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp Lower	Upper
165	100		
63	37.0	32.6	49.0
89	60.0	56.1	84.1
182	2.8	2.1	3.1

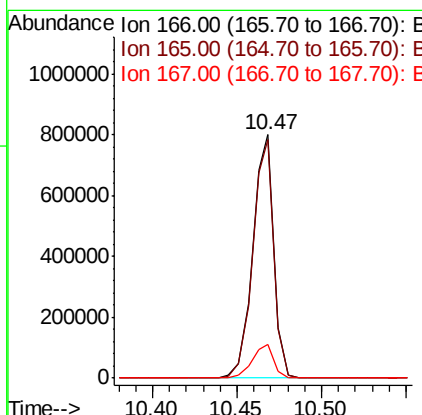
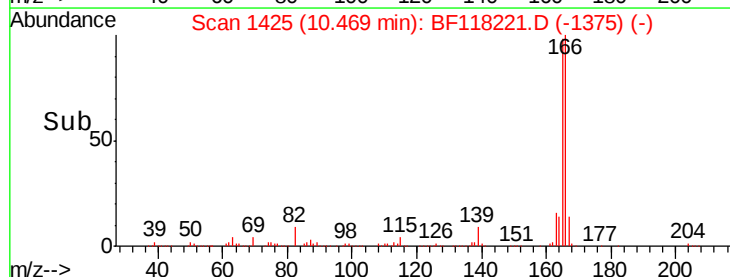
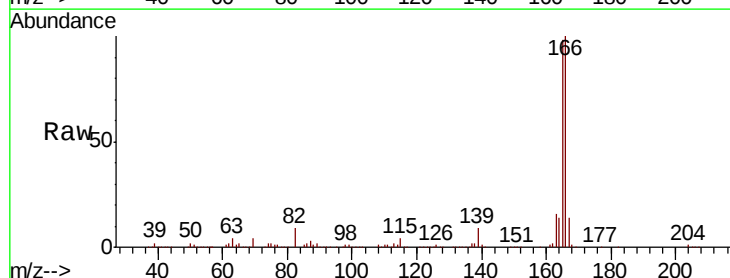
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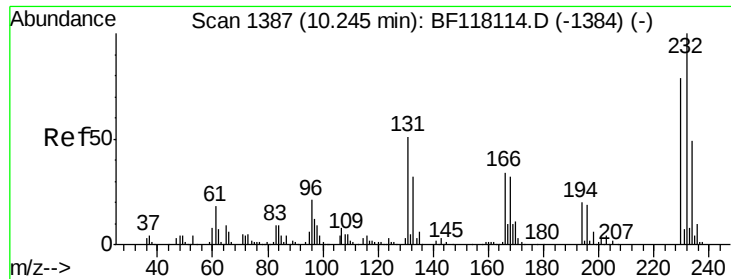
mohammad
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#58
Fluorene
Concen: 49.678 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp Lower	Upper
166	100		
165	98.2	79.0	118.4
167	13.7	10.9	16.3





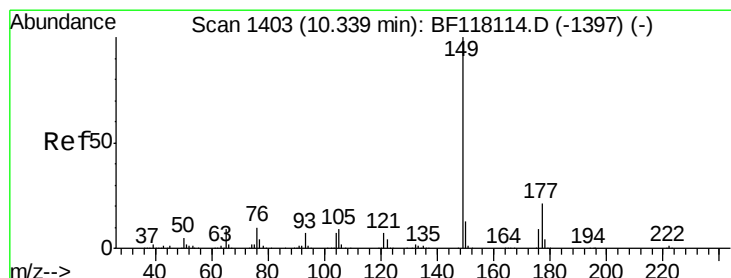
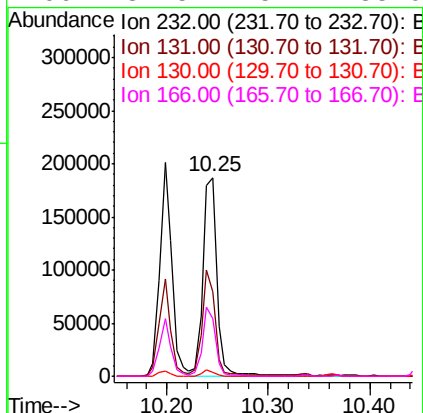
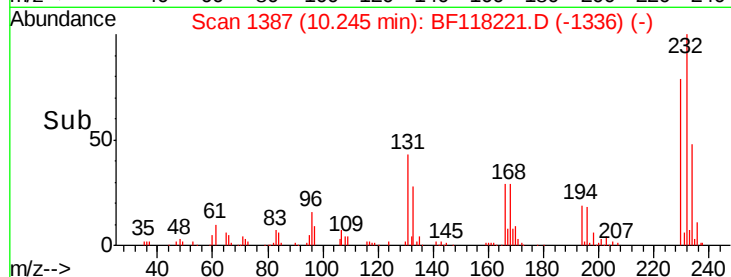
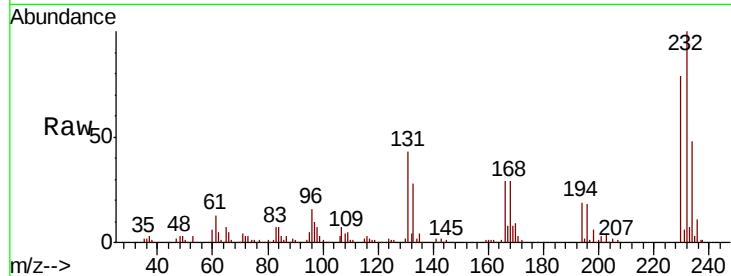
#59
 2,3,4,6-Tetrachlorophenol
 Concen: 49.459 ng
 RT: 10.25 min Scan# 1387
 Delta R.T. -0.00 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
232	100		179881		
131	48.6	38.8	58.2		
130	2.5	1.9	2.9		
166	31.5	25.4	38.0		

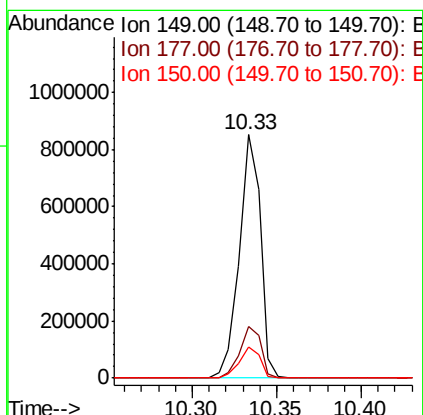
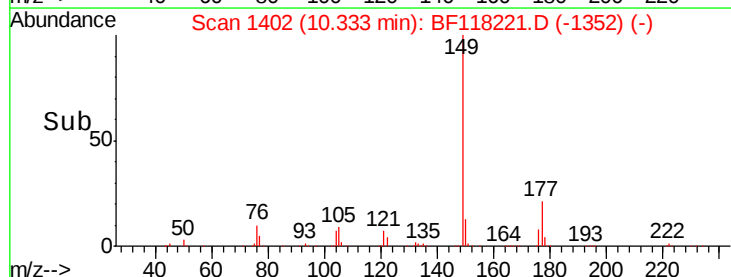
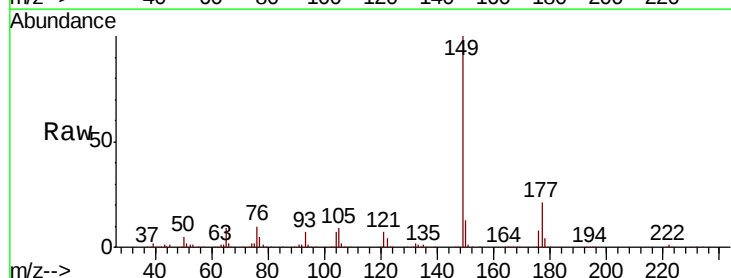
Manual Integrations
 APPROVED

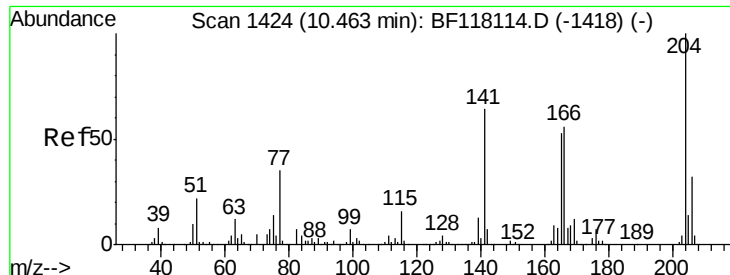
mohammad
 12/17/2019 3:19:35 PM



#60
 Diethylphthalate
 Concen: 48.435 ng
 RT: 10.33 min Scan# 1402
 Delta R.T. -0.01 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
149	100		741527		
177	21.3	17.0	25.4		
150	12.7	10.1	15.1		





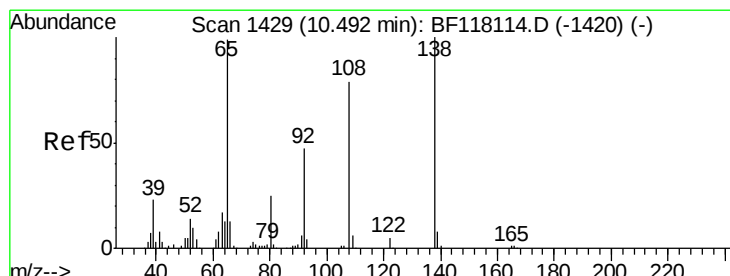
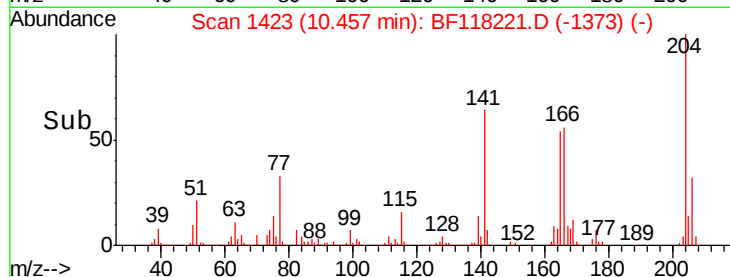
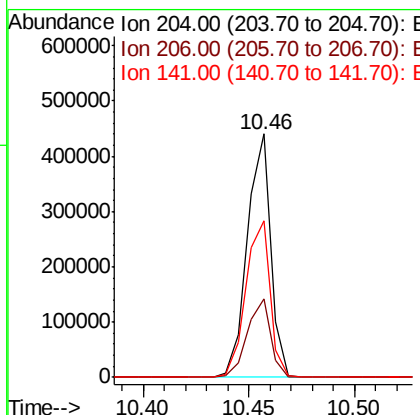
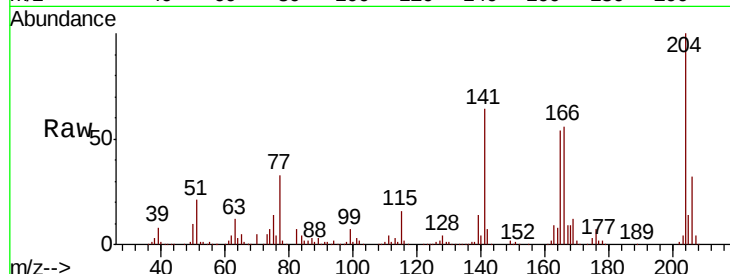
#61
4-Chlorophenyl-phenylether
Concen: 48.379 ng
RT: 10.46 min Scan# 1423
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	64.2	51.0	76.6

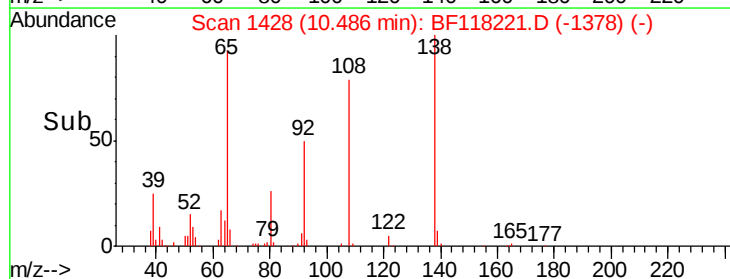
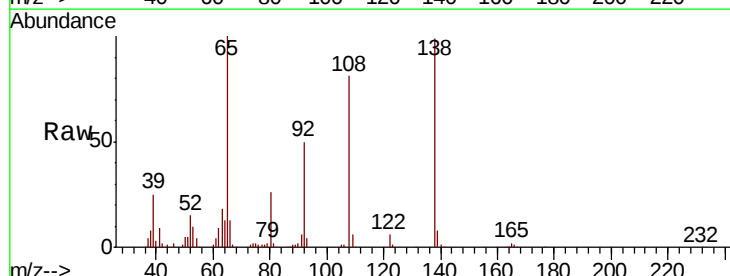
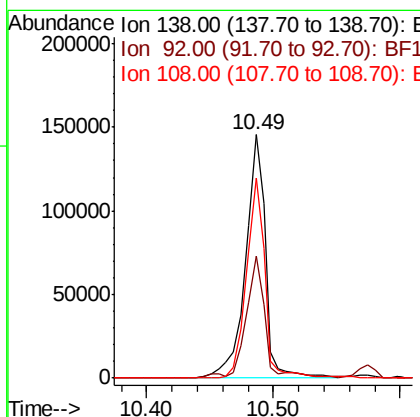
Manual Integrations
APPROVED

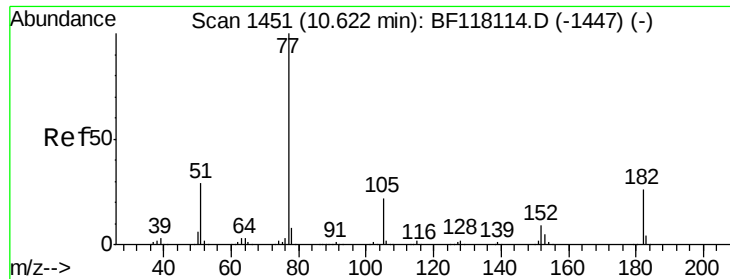
mohammad
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#62
4-Nitroaniline
Concen: 38.347 ng
RT: 10.49 min Scan# 1428
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
138	100		
92	50.2	27.1	67.1
108	82.2	59.0	99.0





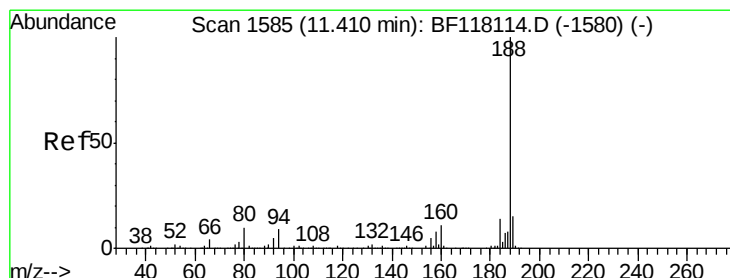
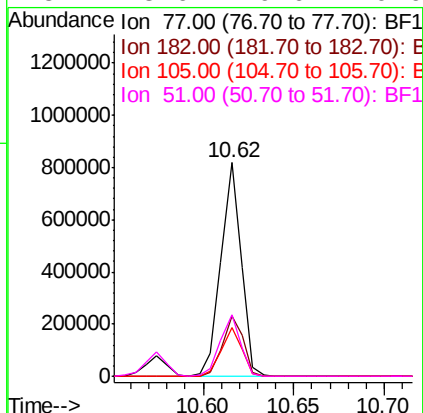
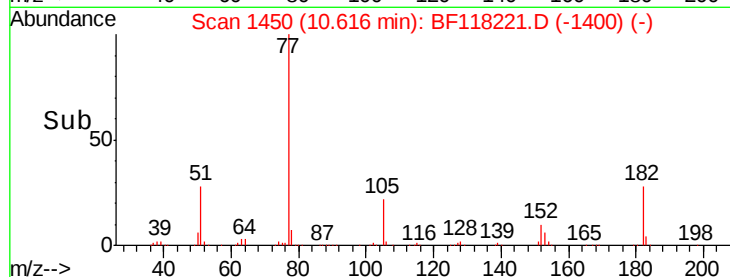
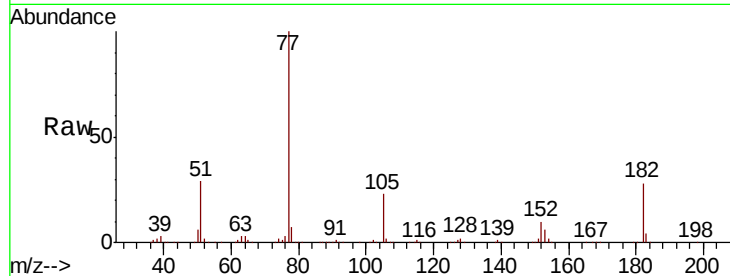
#63
Azobenzene
Concen: 48.763 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ion	Ratio	Lower	Upper
77	100			
182	28.2	5.7	45.7	
105	22.8	2.2	42.2	
51	28.6	9.6	49.6	

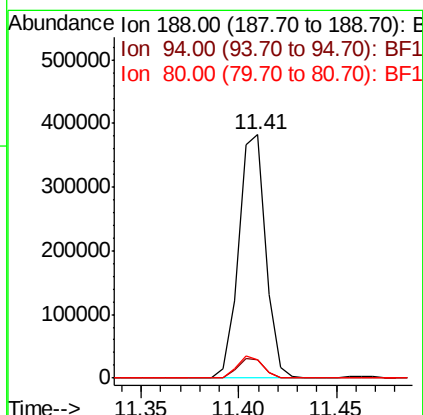
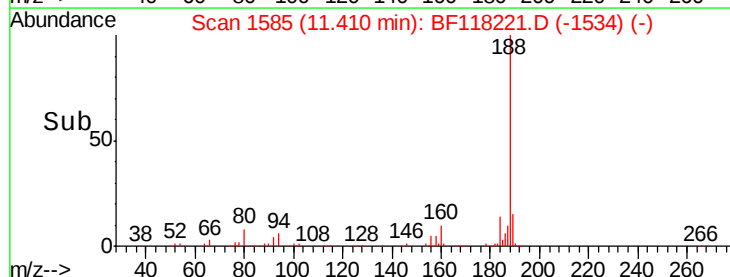
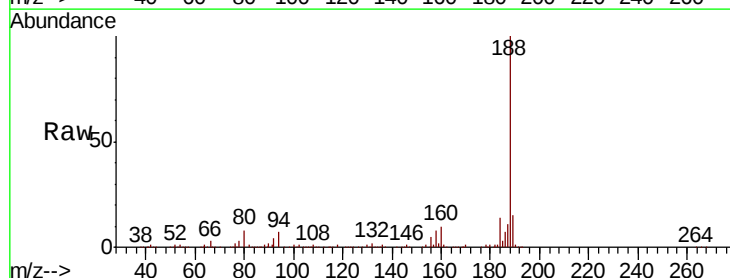
Manual Integrations
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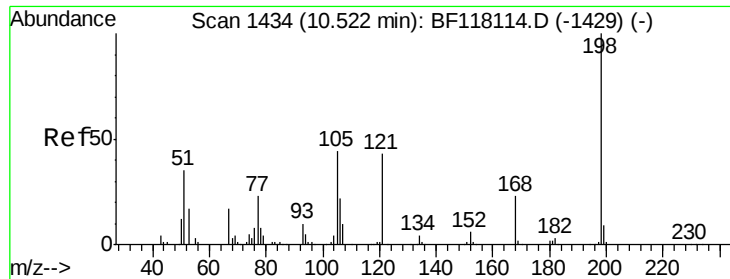
mohammad
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ion	Ratio	Lower	Upper
188	100			
94	7.4	7.1	10.7	
80	7.8	7.9	11.9#	





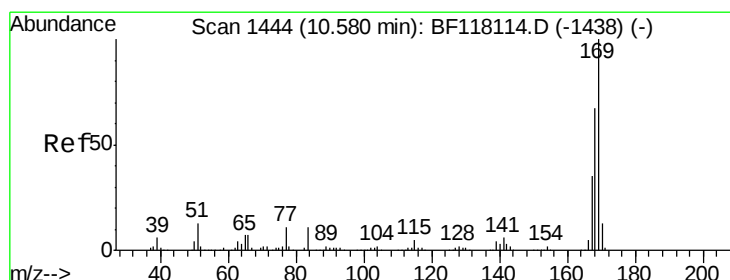
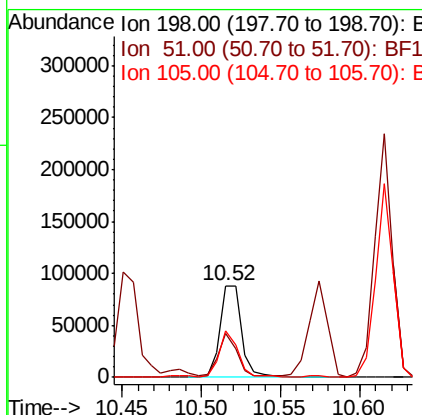
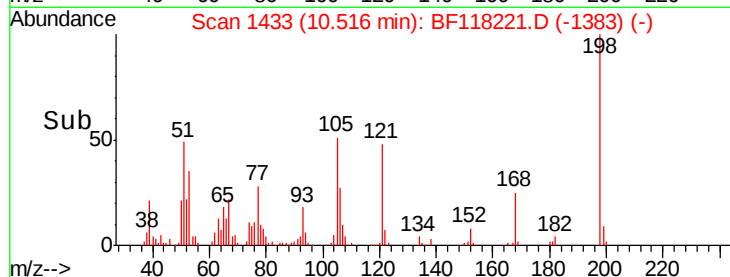
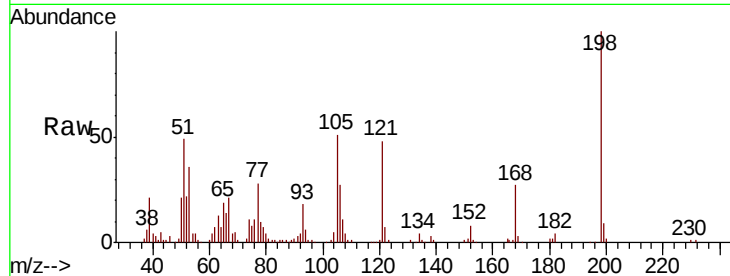
#65
4,6-Dinitro-2-methylphenol
Concen: 41.357 ng
RT: 10.52 min Scan# 1433
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
198	100	83856		
51	48.6	22.0	62.0	
105	50.9	25.6	65.6	

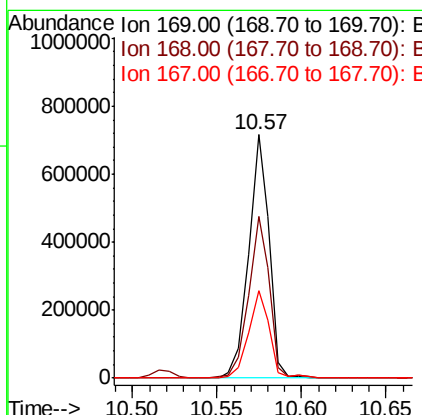
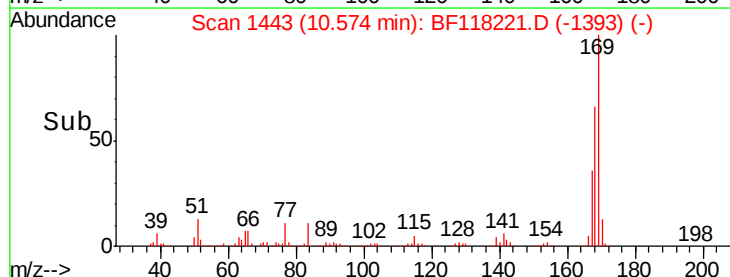
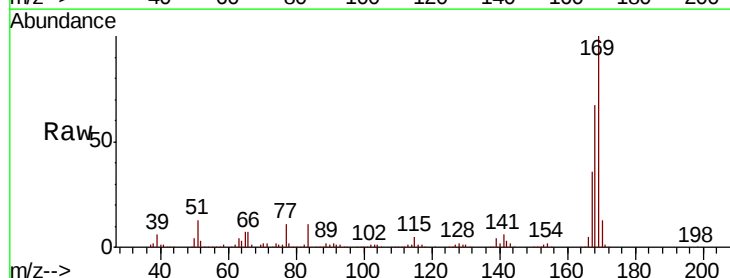
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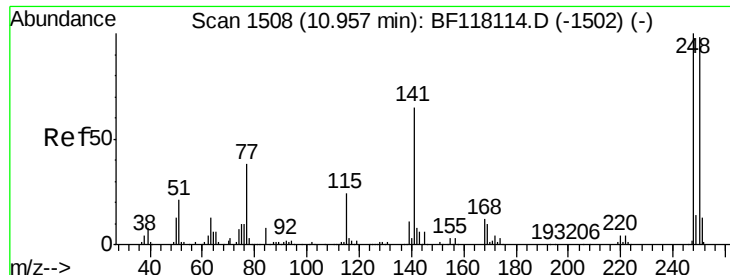
mohammad
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#66
n-Nitrosodiphenylamine
Concen: 52.700 ng
RT: 10.57 min Scan# 1443
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp	Lower	Upper
169	100	604239		
168	66.5	53.4	80.2	
167	35.8	28.4	42.6	





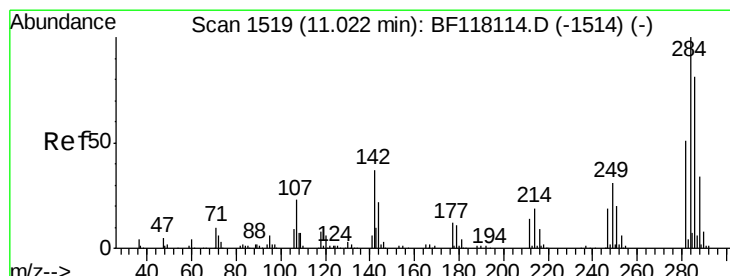
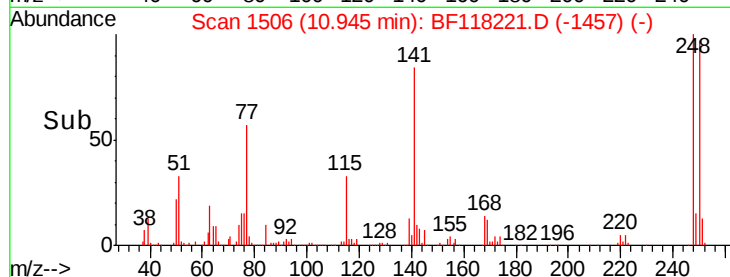
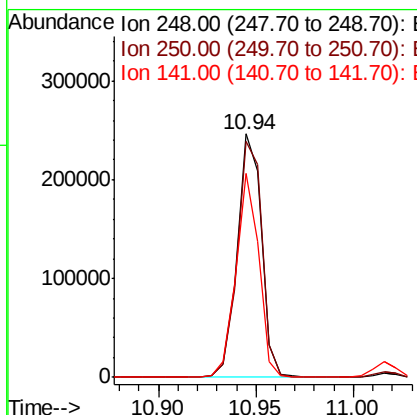
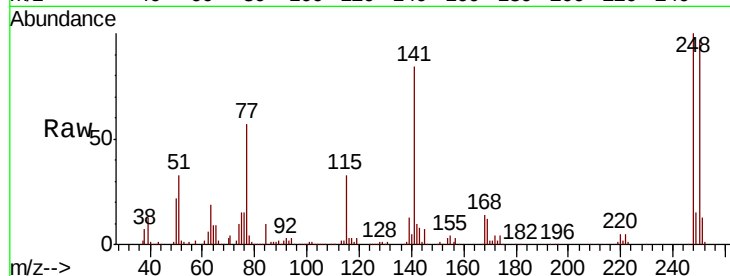
#67
 4-Bromophenyl-phenylether
 Concen: 50.516 ng
 RT: 10.94 min Scan# 1506
 Delta R.T. -0.01 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion:	248	Resp:	211718
Ion Ratio	Lower	Upper	
248	100		
250	96.6	78.3	117.5
141	83.8	52.2	78.4#

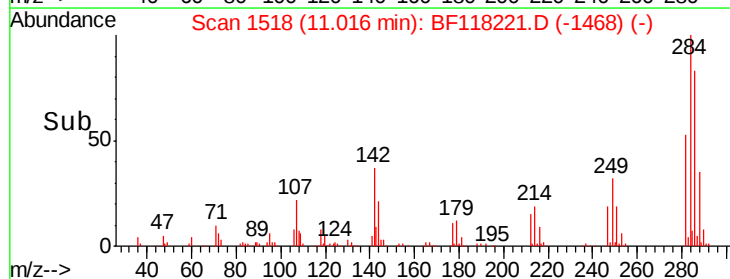
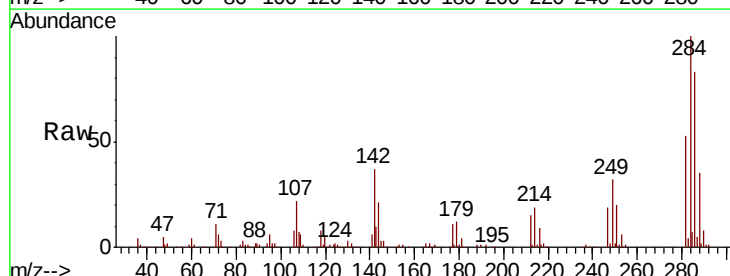
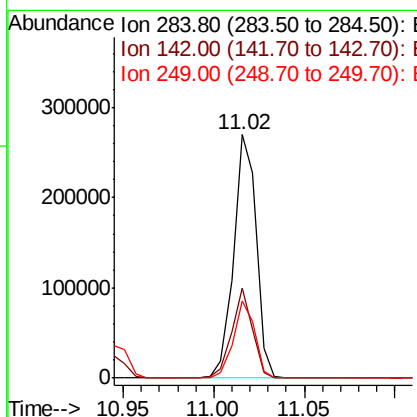
Manual Integrations
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#68
 Hexachlorobenzene
 Concen: 47.575 ng
 RT: 11.02 min Scan# 1518
 Delta R.T. -0.01 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Tgt Ion:	284	Resp:	234691
Ion Ratio	Lower	Upper	
284	100		
142	36.8	29.7	44.5
249	31.7	24.6	37.0





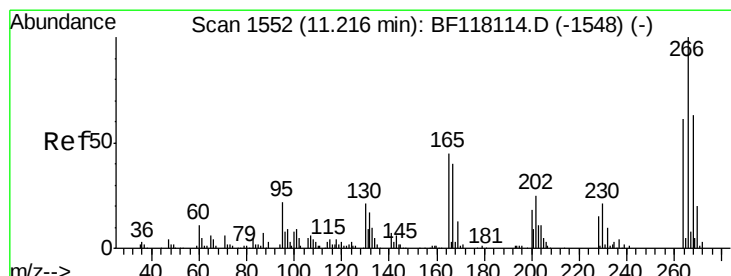
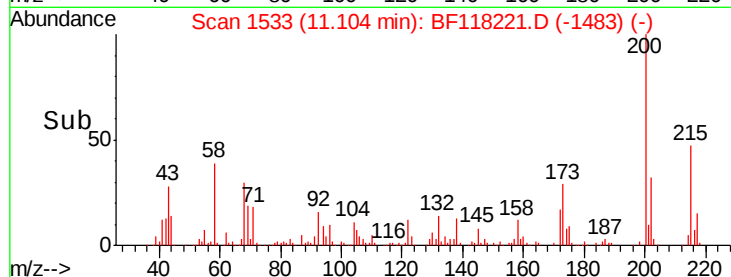
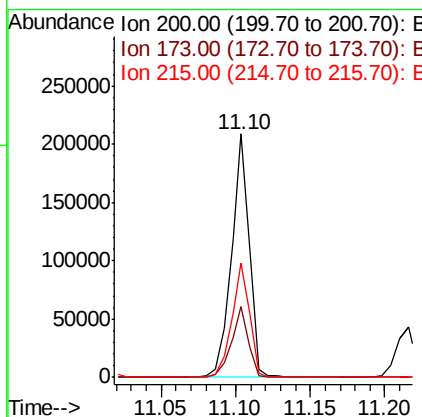
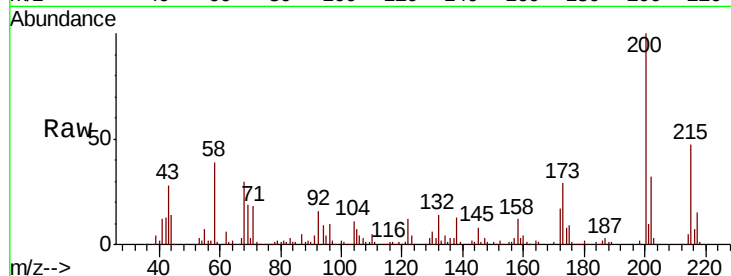
#69
Atrazine
Concen: 76.154 ng
RT: 11.10 min Scan# 1533
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
200	100		
173	28.8	8.1	48.1
215	46.9	29.0	69.0

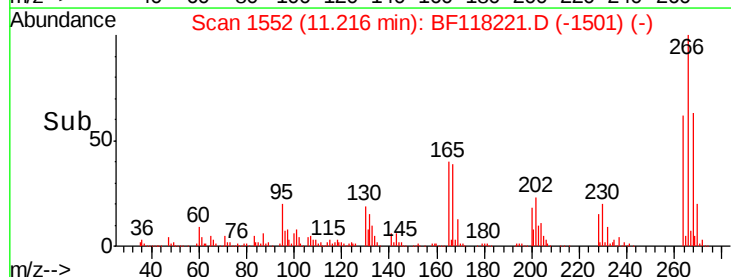
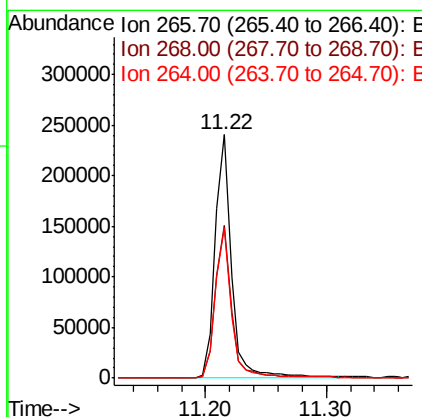
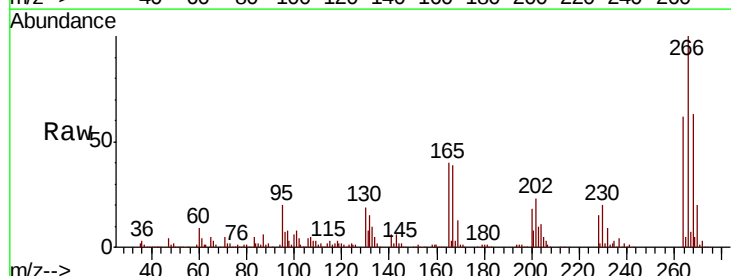
Manual Integrations
APPROVED

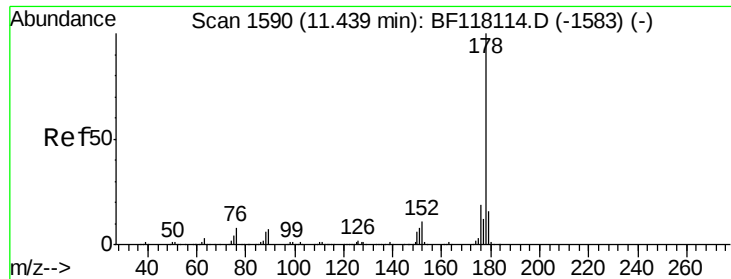
mohammad
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#70
Pentachlorophenol
Concen: 96.857 ng
RT: 11.22 min Scan# 1552
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
266	100		
268	62.9	50.7	76.1
264	61.6	48.7	73.1





#71

Phenanthrene

Concen: 52.662 ng

RT: 11.43 min Scan# 1589

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMSD

Tot Ion:178 Resp: 1027825

Ion Ratio Lower Upper

178 100

176 19.1 15.5 23.3

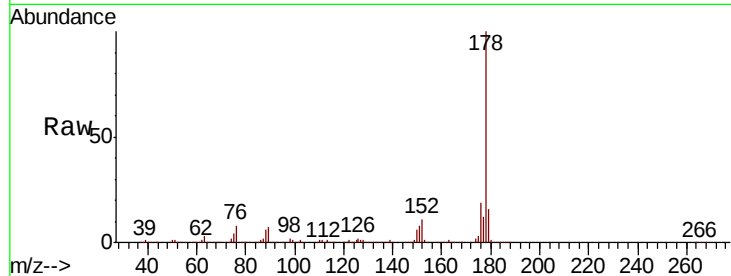
179 15.6 12.6 18.8

Manual Integrations

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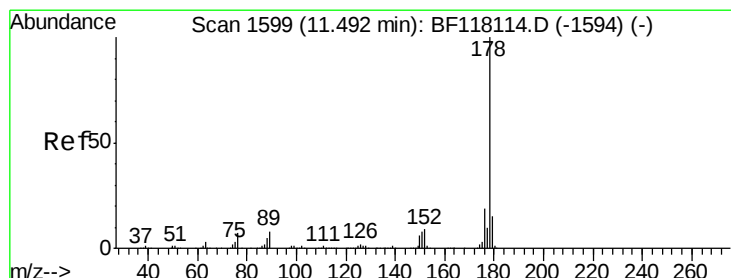
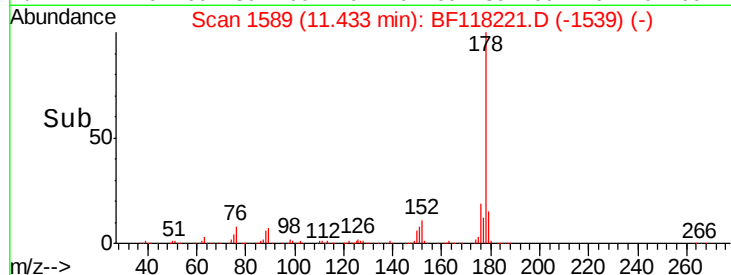
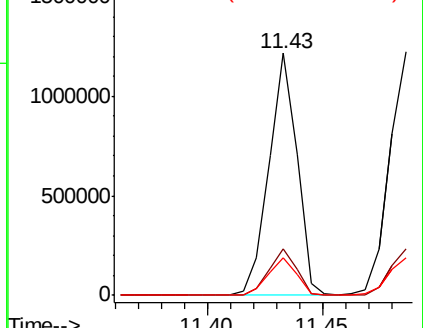
12/17/2019 3:19:35 PM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#72

Anthracene

Concen: 51.324 ng

RT: 11.49 min Scan# 1598

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion:178 Resp: 999290

Ion Ratio Lower Upper

178 100

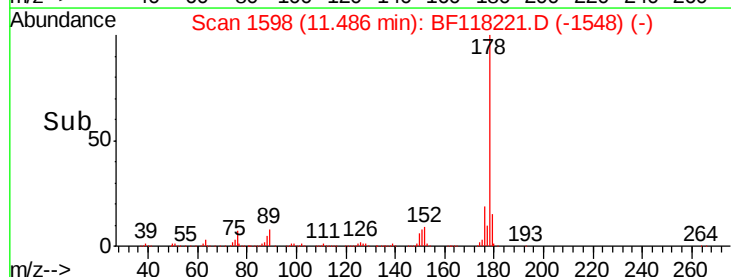
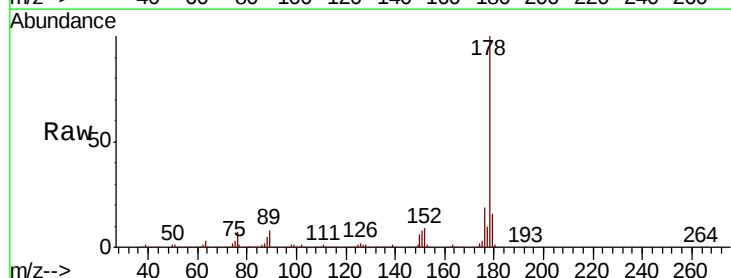
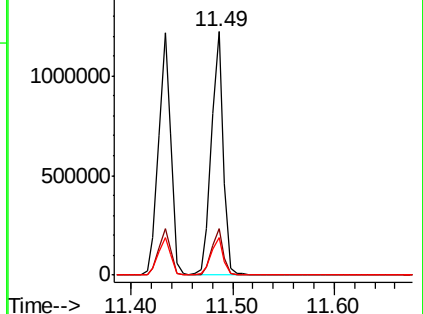
176 19.0 15.0 22.6

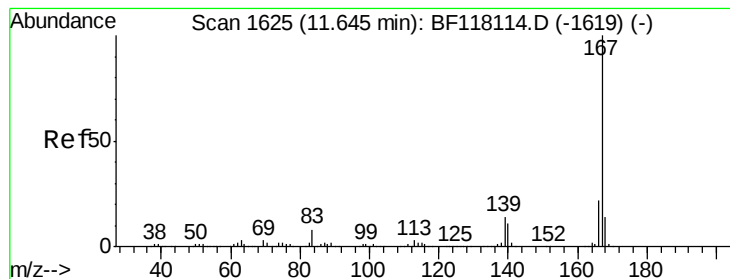
179 15.5 12.2 18.4

Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#73

Carbazole

Concen: 48.086 ng

RT: 11.64 min Scan# 1624

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMSD

Tot Ion:167 Resp: 840022

Ion Ratio Lower Upper

167 100

166 22.2 17.4 26.2

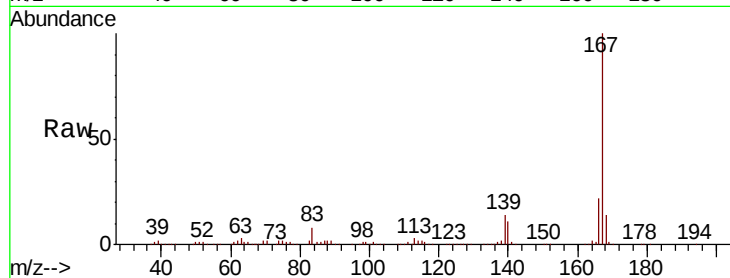
139 14.1 11.4 17.0

Manual Integrations

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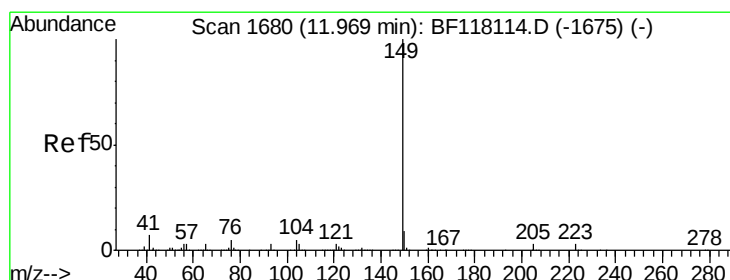
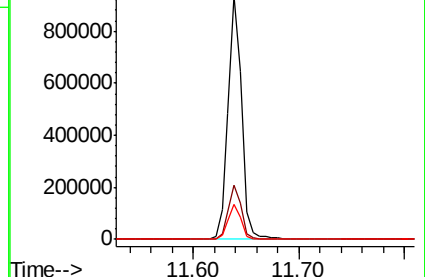
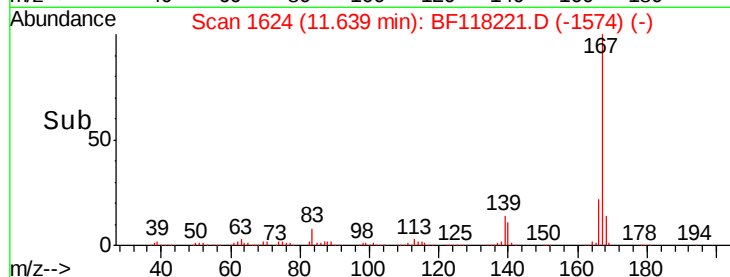
12/17/2019 3:19:35 PM



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Di-n-butylphthalate

Concen: 50.059 ng

RT: 11.97 min Scan# 1680

Delta R.T. -0.00 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

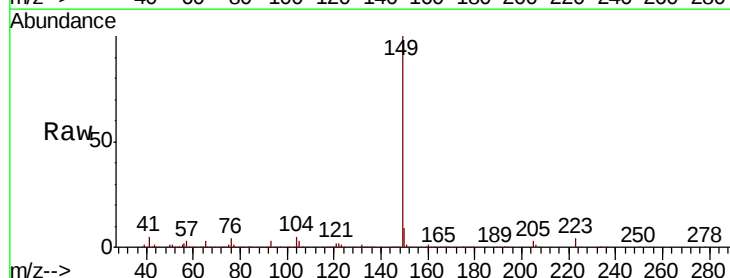
Tgt Ion:149 Resp: 1094428

Ion Ratio Lower Upper

149 100

150 9.2 7.4 11.2

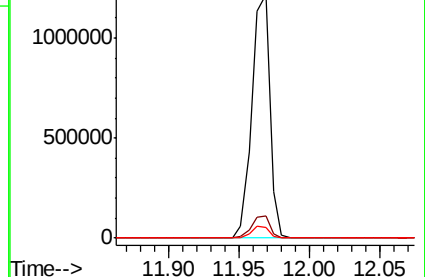
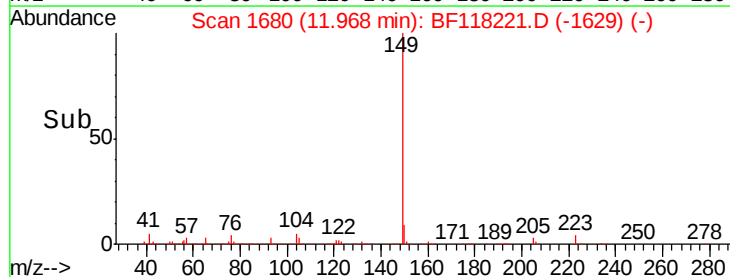
104 4.6 4.3 6.5

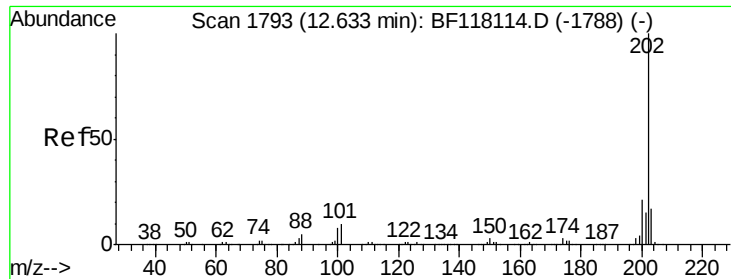


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#75

Fluoranthene

Concen: 47.634 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

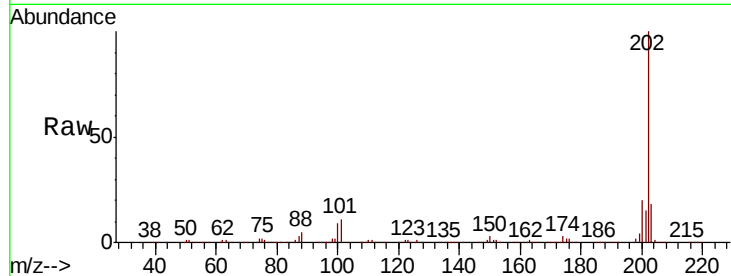
ClientSampleId :

42-SPRUCEMSD

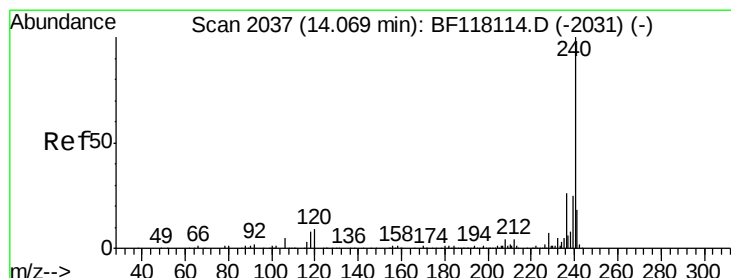
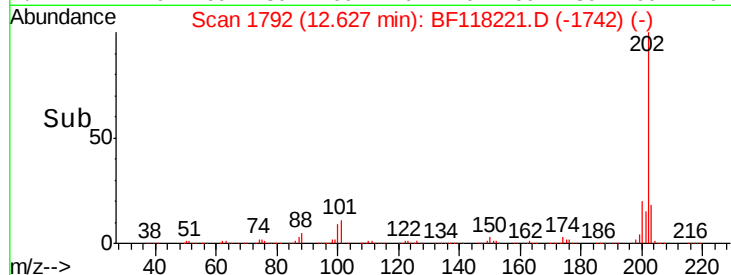
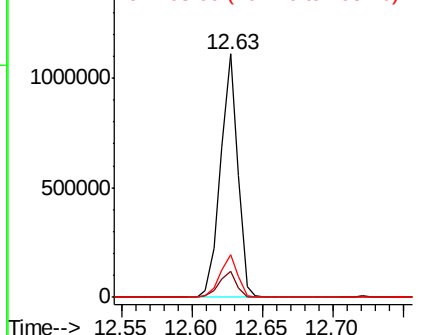
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		950520		
101	10.9	0.0	30.4		
203	17.6	0.0	37.2		

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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

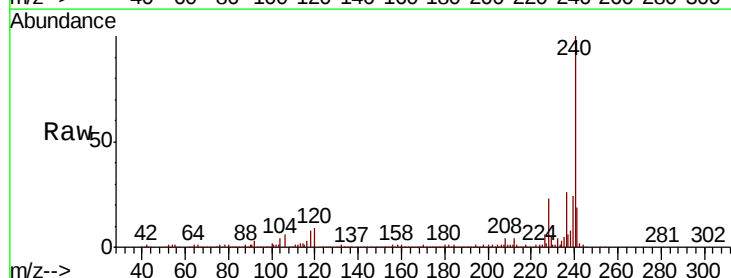
RT: 14.06 min Scan# 2036

Delta R.T. -0.01 min

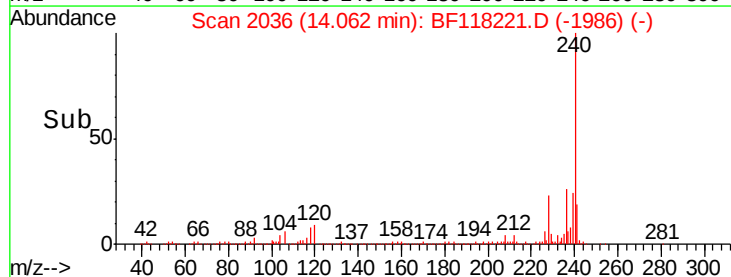
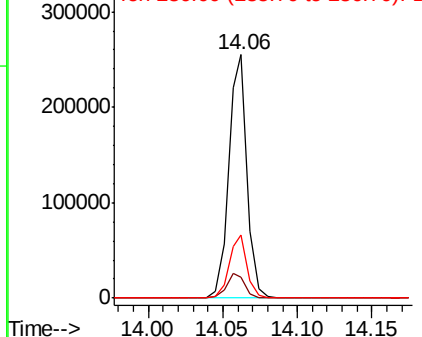
Lab File: BF118221.D

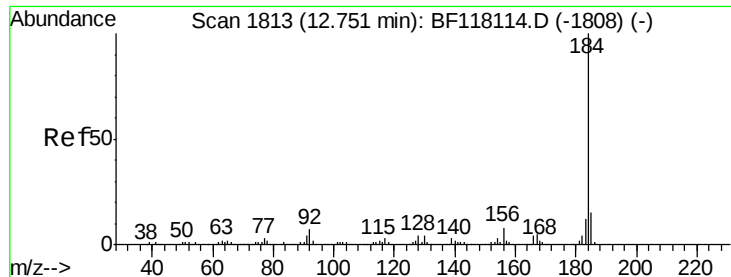
Acq: 17 Dec 2019 2:46

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		220573		
120	8.7	7.1	10.7		
236	26.1	21.0	31.6		



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

Benzidine

Concen: 42.541 ng

RT: 12.74 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

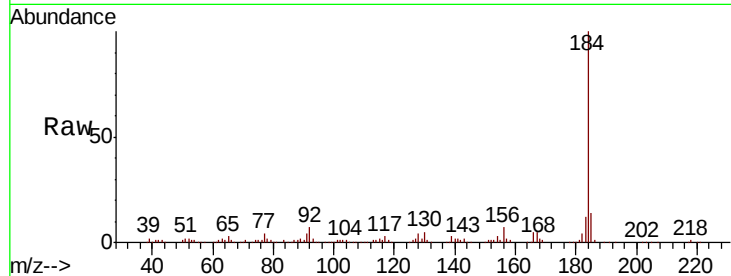
ClientSampleId :

42-SPRUCEMSD

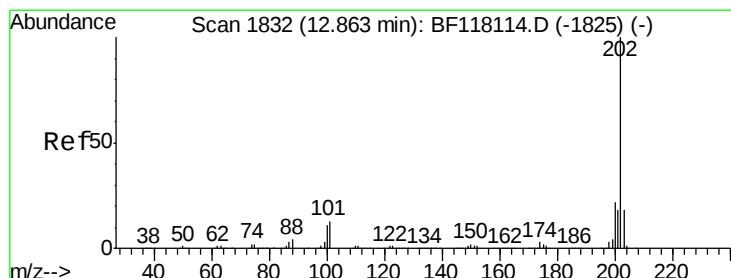
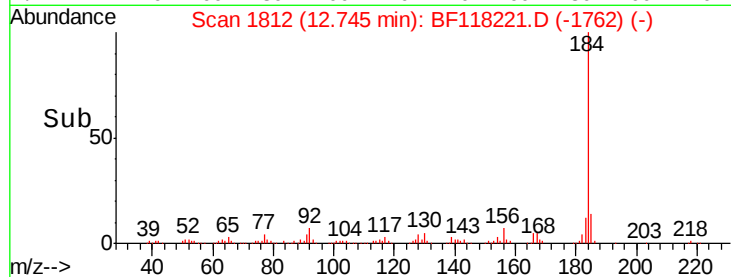
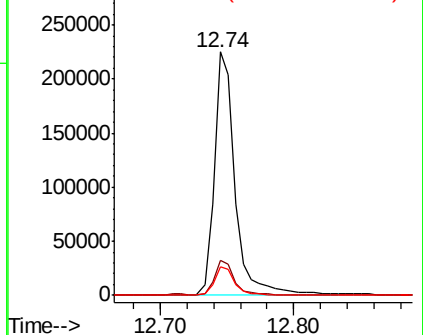
Tot Ion:	184	Resp:	247019
Ion Ratio	Lower	Upper	
184	100		
185	14.3	12.3	18.5
183	11.7	9.9	14.9

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Abundance Ion 184.00 (183.70 to 184.70): E
Ion 185.00 (184.70 to 185.70): E
Ion 183.00 (182.70 to 183.70): E



#78

Pyrene

Concen: 54.227 ng

RT: 12.86 min Scan# 1831

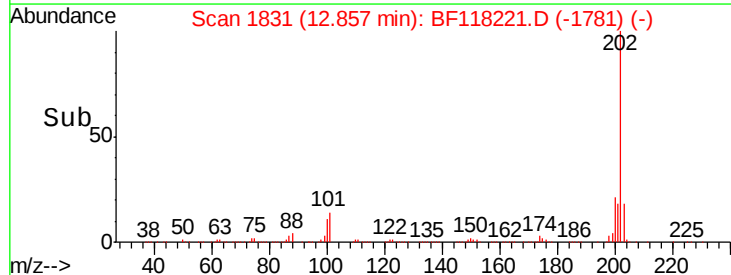
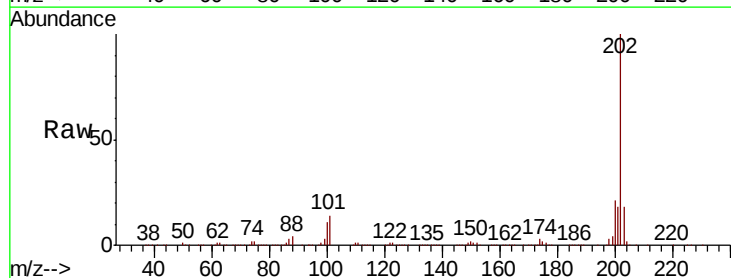
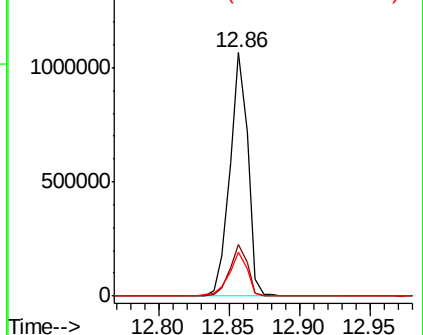
Delta R.T. -0.01 min

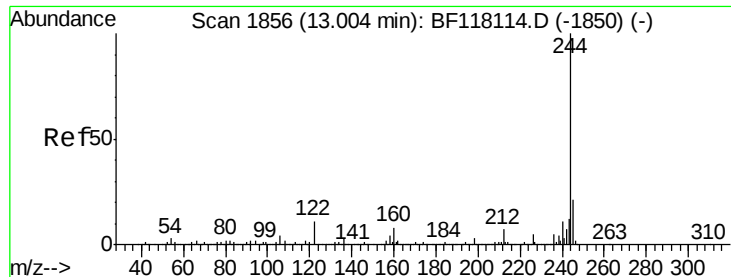
Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Tgt Ion:	202	Resp:	942586
Ion Ratio	Lower	Upper	
202	100		
200	21.4	17.5	26.3
203	17.9	14.6	21.8

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





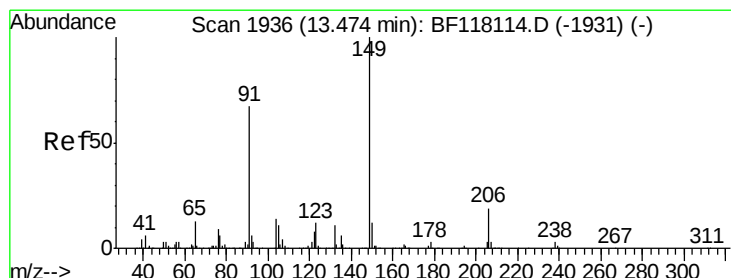
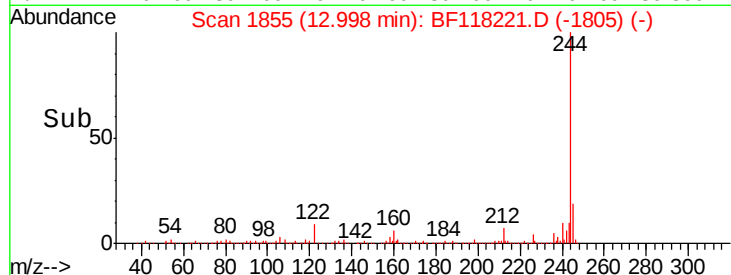
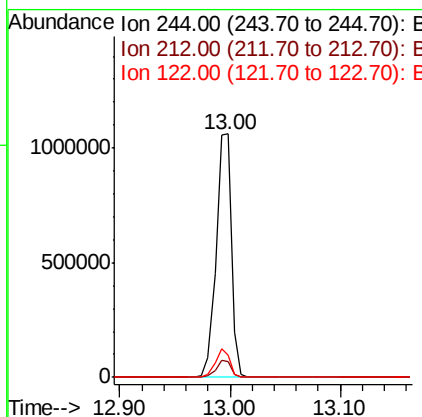
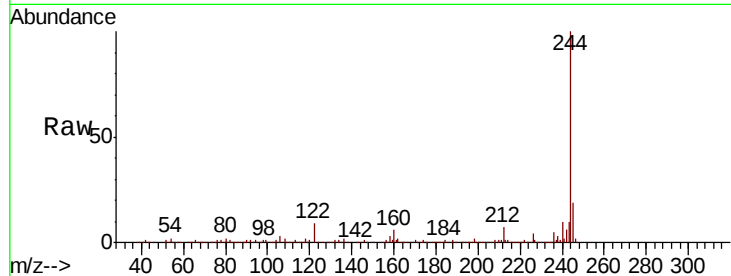
#79
Terphenyl-d14
Concen: 79.508 ng
RT: 13.00 min Scan# 1856
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.9	8.9
122	8.9	9.0	13.6

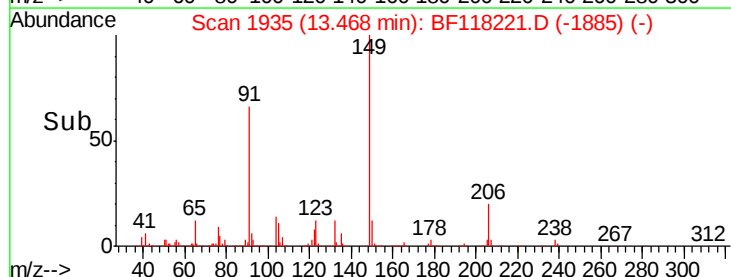
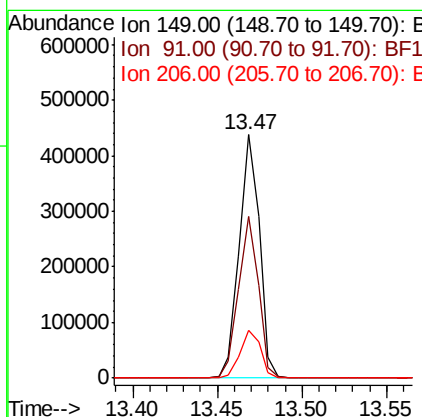
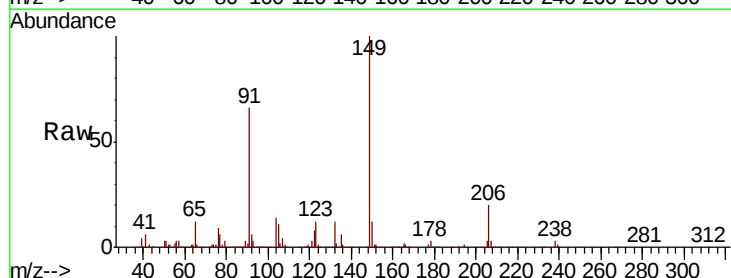
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#80
Butylbenzylphthalate
Concen: 46.333 ng
RT: 13.47 min Scan# 1935
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
149	100		
91	66.2	53.9	80.9
206	19.6	15.2	22.8





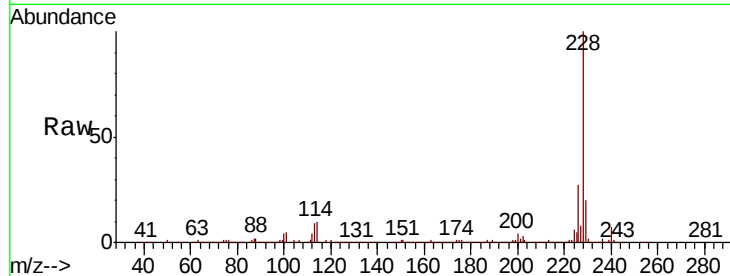
#81
Benzo(a)anthracene
Concen: 51.384 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.8	32.8
229	19.9	15.8	23.8

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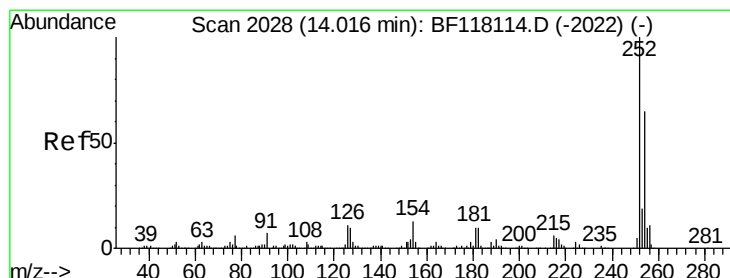
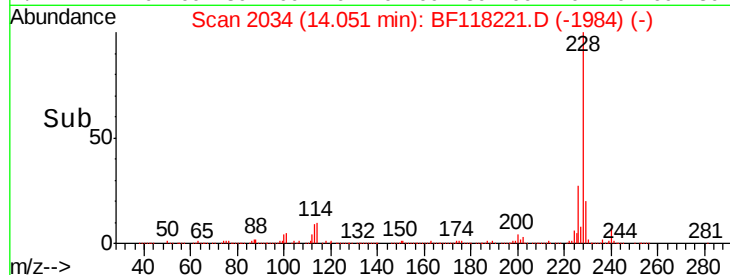
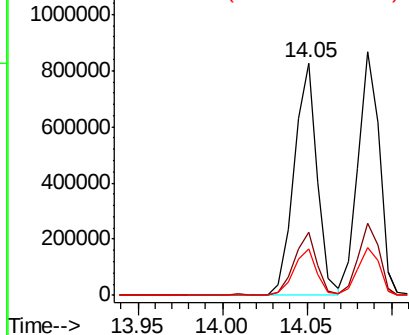


Abundance

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



#82
3,3'-Dichlorobenzidine
Concen: 38.487 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

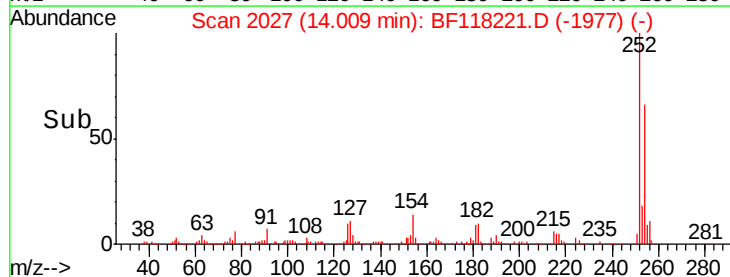
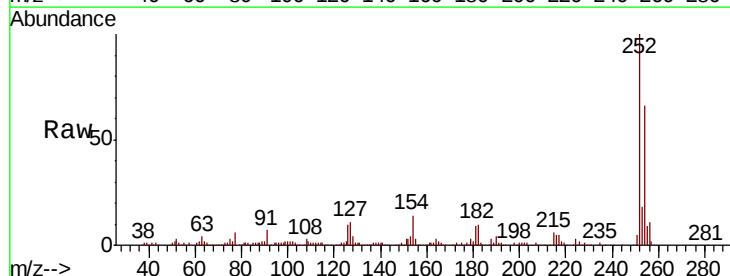
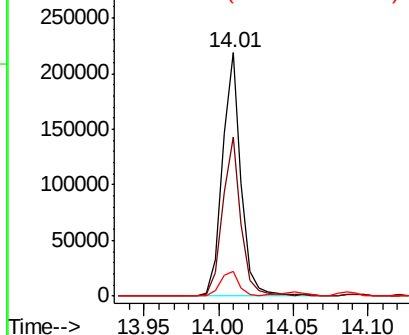
Tgt Ion	Ratio	Lower	Upper
252	100		
254	65.6	52.2	78.4
126	10.1	8.6	13.0

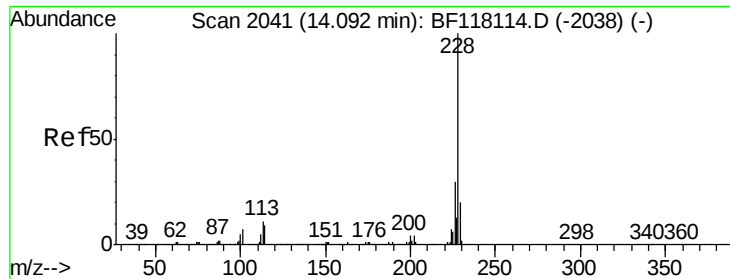
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





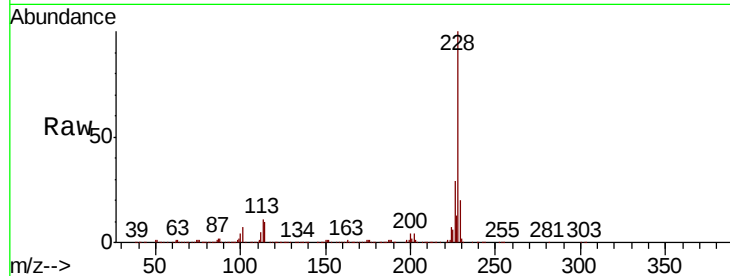
#83
 Chrvsene
 Concen: 52.110 ng
 RT: 14.09 min Scan# 2040
 Delta R.T. -0.01 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMSD

Tot Ion	Ratio	Resp	Lower	Upper
228	100	759187		
226	29.4		23.8	35.8
229	19.8		15.7	23.5

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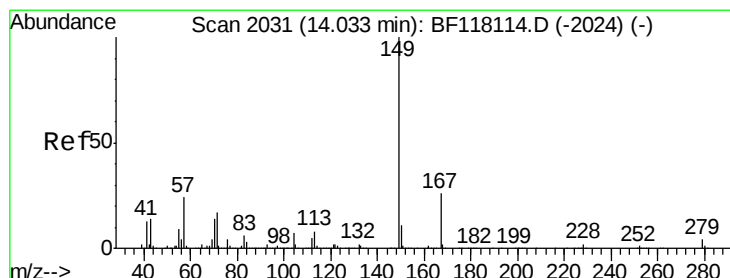
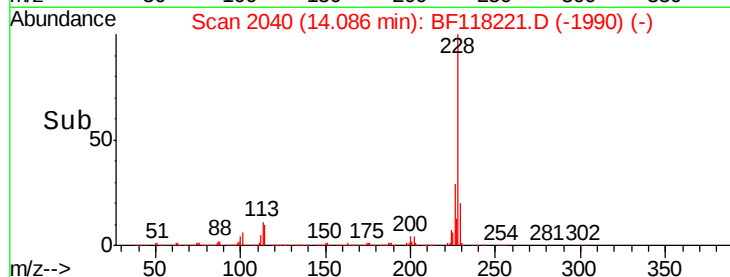
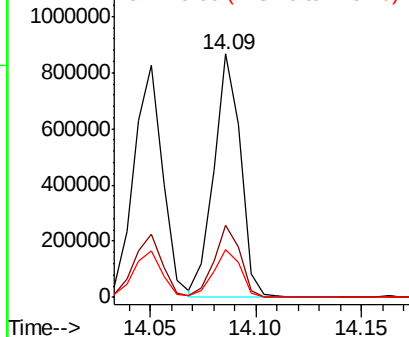


Abundance

Ion 228.00 (227.70 to 228.70): E

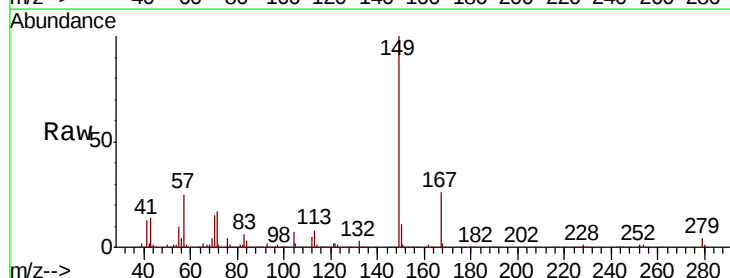
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#84
 Bis(2-ethylhexyl)phthalate
 Concen: 46.921 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: BF118221.D
 Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	487051		
167	26.1		20.8	31.2
279	3.8		2.9	4.3

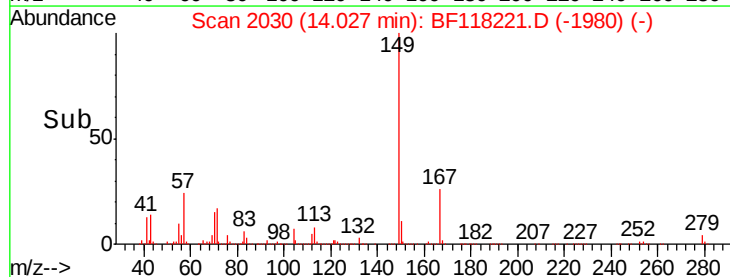
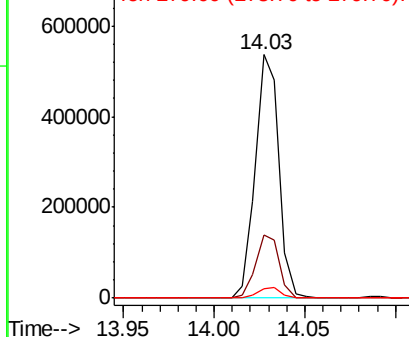


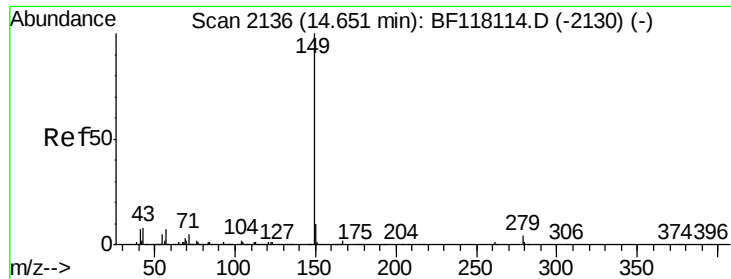
Abundance

Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Di-n-octyl phthalate

Concen: 50.121 ng

RT: 14.64 min Scan# 2135

Delta R.T. -0.01 min

Lab File: BF118221.D

Acq: 17 Dec 2019 2:46

Instrument :

BNA_F

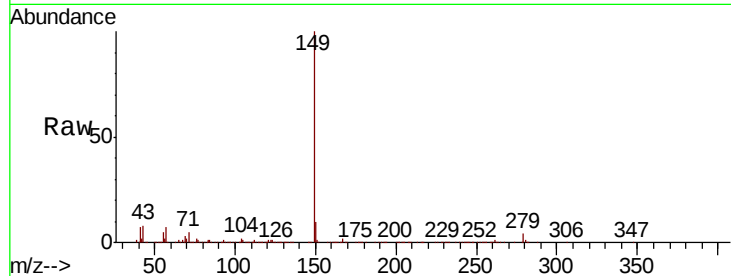
ClientSampleId :

42-SPRUCEMSD

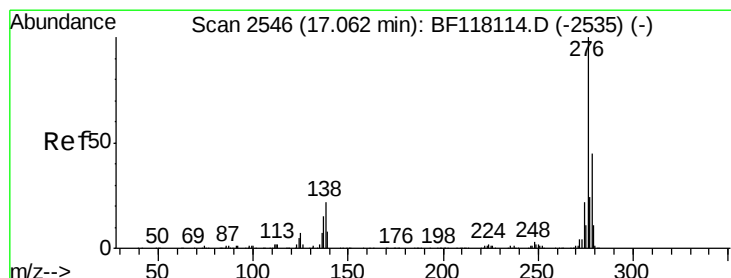
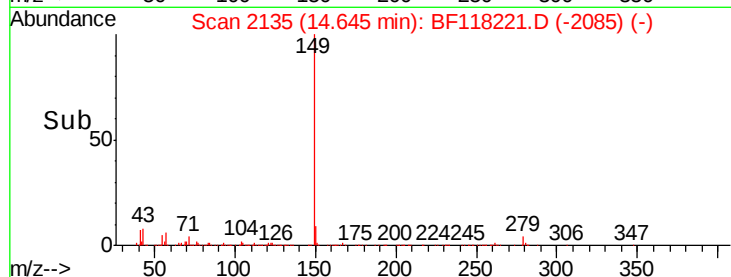
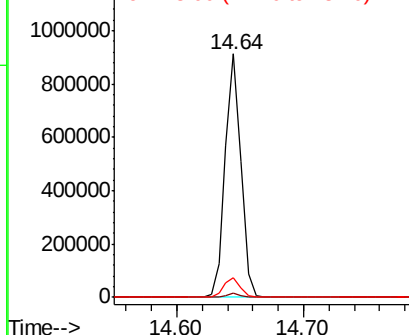
Tot Ion:	149	Resp:	788115
Ion Ratio		Lower	Upper
149	100		
167	1.6	1.3	1.9
43	7.8	6.5	9.7

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Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 43.00 (42.70 to 43.70): BF1



#86

Indeno(1,2,3-cd)pyrene

Concen: 72.069 ng

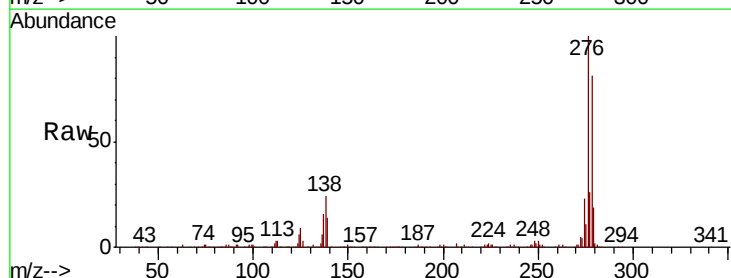
RT: 17.07 min Scan# 2547

Delta R.T. 0.01 min

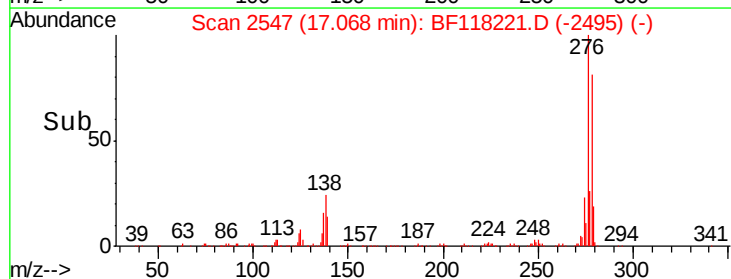
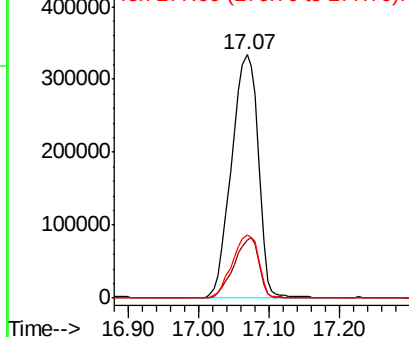
Lab File: BF118221.D

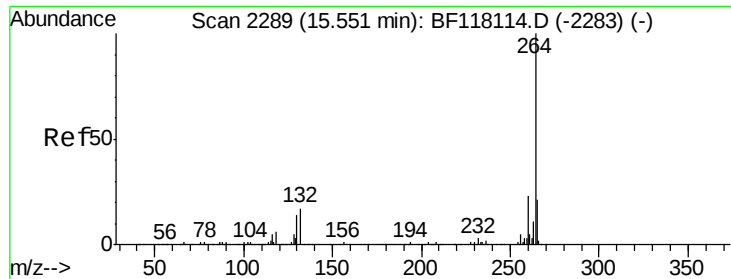
Acq: 17 Dec 2019 2:46

Tgt Ion:	276	Resp:	883456
Ion Ratio		Lower	Upper
276	100		
138	23.6	18.9	28.3
277	25.6	20.4	30.6



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





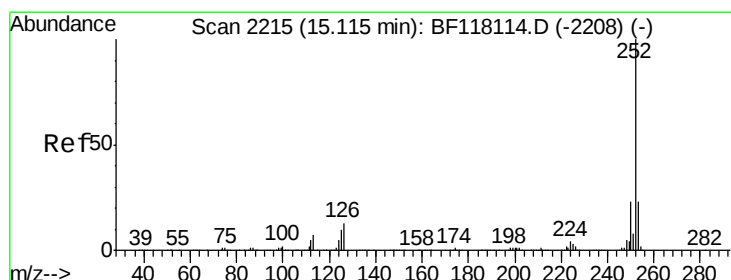
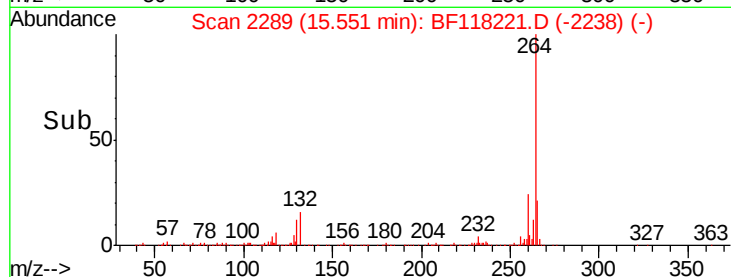
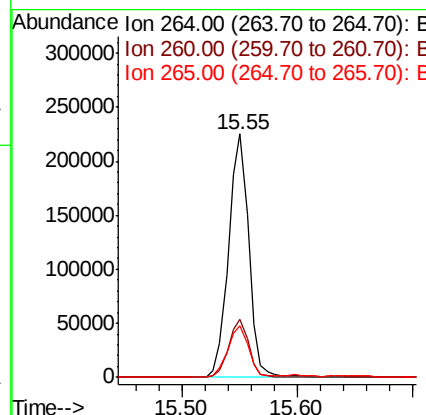
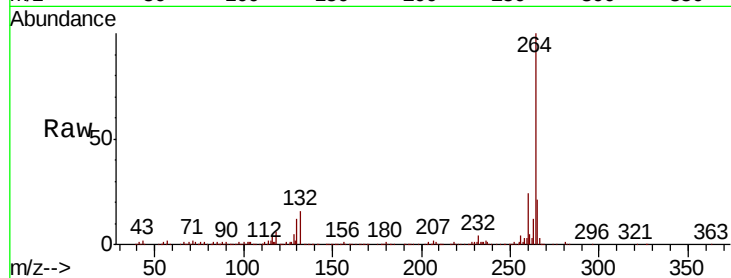
#87
Pervlene-d12
Concen: 20.000 ng
RT: 15.55 min Scan# 2289
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMSD

Tot Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.6	28.0
265	21.1	16.8	25.2

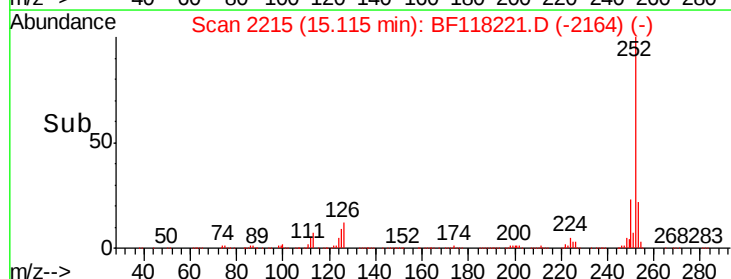
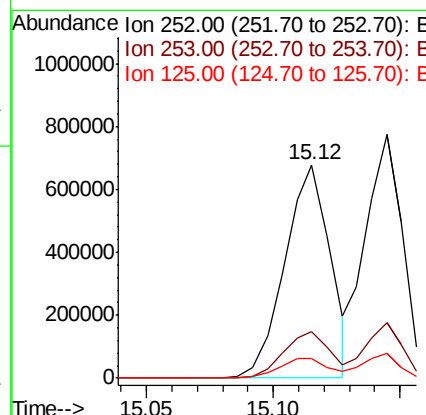
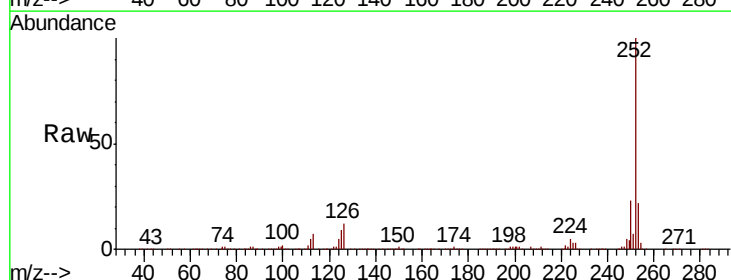
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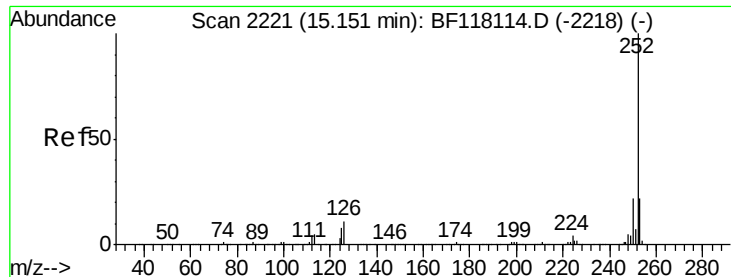
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#88
Benzo(b)fluoranthene
Concen: 46.652 ng
RT: 15.12 min Scan# 2215
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.7	18.2	27.4
125	9.4	8.3	12.5





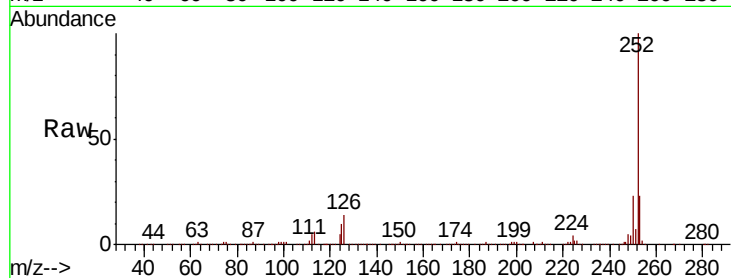
#89
Benzo(k)fluoranthene
Concen: 45.715 ng
RT: 15.14 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.6	26.4
125	9.9	6.7	10.1

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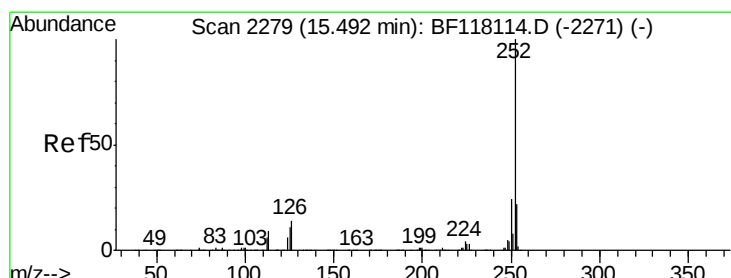
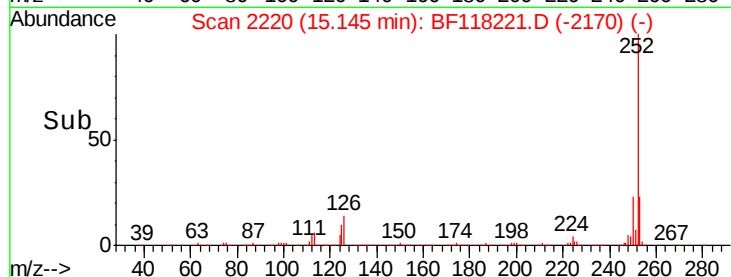
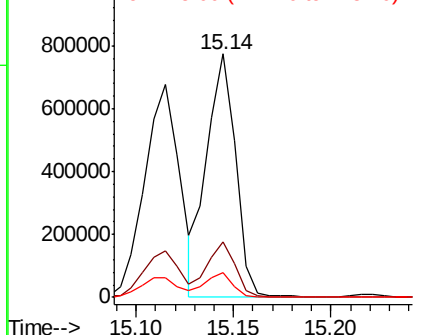


Abundance

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



#90
Benzo(a)pyrene
Concen: 51.303 ng
RT: 15.49 min Scan# 2279
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

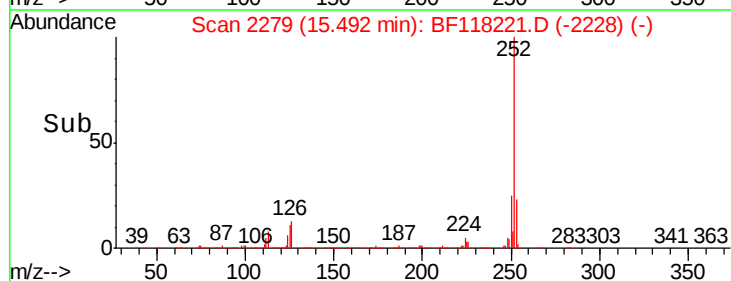
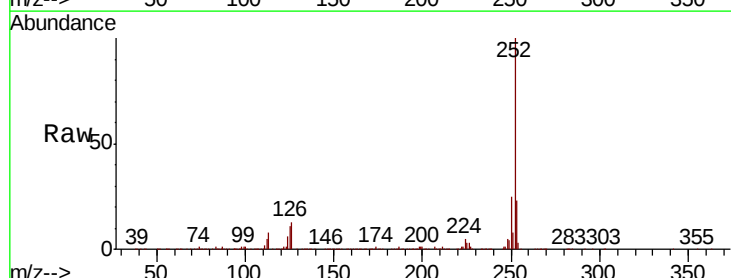
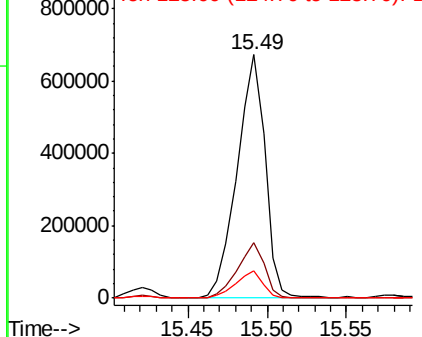
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.5	26.3
125	11.1	9.1	13.7

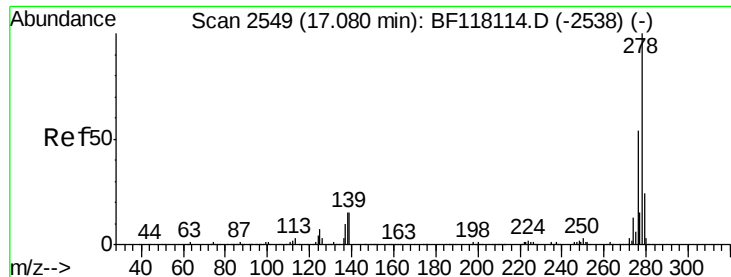
Abundance

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





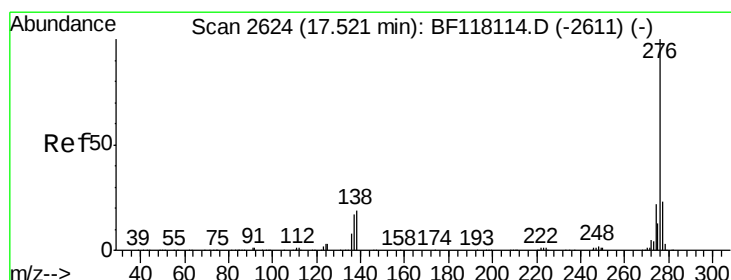
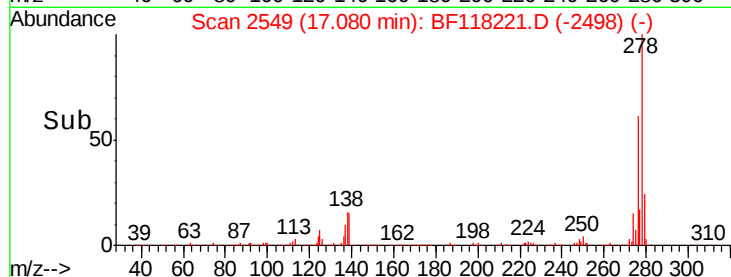
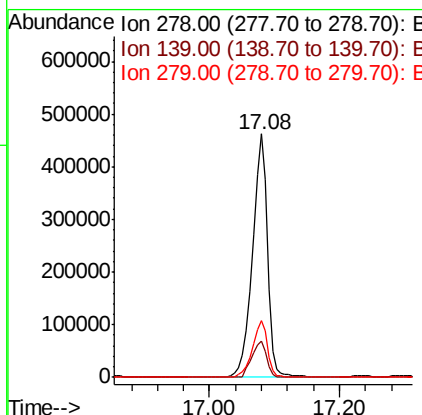
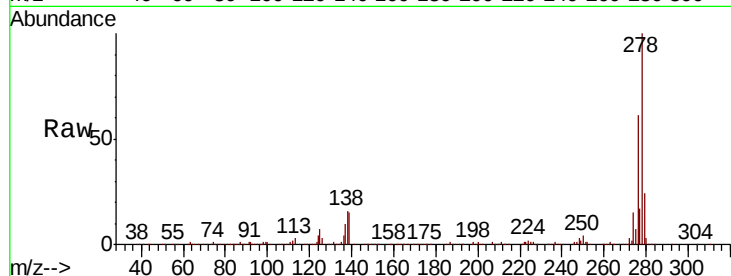
#91
Dibenzo(a,h)anthracene
Concen: 54.109 ng
RT: 17.08 min Scan# 2549
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMSD

Tot Ion	Ratio	Lower	Upper
278	100		
139	14.9	11.7	17.5
279	23.5	19.0	28.4

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:35 PM



#92
Benzo(g,h,i)perylene
Concen: 52.144 ng
RT: 17.52 min Scan# 2624
Delta R.T. -0.00 min
Lab File: BF118221.D
Acq: 17 Dec 2019 2:46

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	18.2	27.4
138	19.5	15.5	23.3

