

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121619\
 Data File : BF118220.D
 Acq On : 17 Dec 2019 2:18
 Operator : JU
 Sample : K6284-01MS
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCMS

Manual Integrations
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mohammad
 12/17/2019 3:19:32 PM

Quant Time: Dec 17 04:55:29 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	89955	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	355038	20.00	ng	0.00
39) Acenaphthene-d10	9.91	164	185102	20.00	ng	-0.01
64) Phenanthrene-d10	11.40	188	354700	20.00	ng	0.00
76) Chrysene-d12	14.06	240	240376	20.00	ng	-0.01
87) Perylene-d12	15.55	264	279104	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.47	112	479146	93.29	ng	0.00
7) Phenol-d6	6.50	99	612993	98.68	ng	0.00
23) Nitrobenzene-d5	7.43	82	359188	56.92	ng	-0.01
42) 2,4,6-Tribromophenol	10.71	330	213637	95.01	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	761999	62.64	ng	-0.01
79) Terphenyl-d14	12.99	244	879598	62.93	ng	-0.01

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.60	88	72169	33.325	ng	98
3) Pyridine	3.37	79	175925	31.487	ng	100
4) n-Nitrosodimethylamine	3.31	42	89285	37.147	ng	98
6) Aniline	6.52	93	102064	12.844	ng	# 91
8) 2-Chlorophenol	6.65	128	234068	40.418	ng	98
9) Benzaldehyde	6.41	77	77010	19.666	ng	97
10) Phenol	6.51	94	283880	40.071	ng	98
11) bis(2-Chloroethyl)ether	6.59	93	198993	38.837	ng	96
12) 1,3-Dichlorobenzene	6.80	146	253345	37.448	ng	95
13) 1,4-Dichlorobenzene	6.88	146	262504	38.534	ng	96
14) 1,2-Dichlorobenzene	7.03	146	243028	37.988	ng	97
15) Benzyl Alcohol	7.00	79	192380	39.673	ng	99
16) 2,2'-oxybis(1-Chloropropan	7.14	45	225184	36.552	ng	97
17) 2-Methylphenol	7.12	107	181832	39.476	ng	97
18) Hexachloroethane	7.37	117	91742	36.548	ng	97
19) n-Nitroso-di-n-propylamine	7.27	70	144684	38.329	ng	98
20) 3+4-Methylphenols	7.27	107	235030	40.623	ng	92
22) Acetophenone	7.27	105	316769	37.137	ng	# 95
24) Nitrobenzene	7.45	77	229581	37.027	ng	100
25) Isophorone	7.69	82	400648	37.450	ng	99
26) 2-Nitrophenol	7.76	139	126927	38.300	ng	90
27) 2,4-Dimethylphenol	7.80	122	193959	43.877	ng	99
28) bis(2-Chloroethoxy)methane	7.89	93	252375	36.102	ng	98
29) 2,4-Dichlorophenol	8.01	162	196327	38.097	ng	97
30) 1,2,4-Trichlorobenzene	8.09	180	215907	35.850	ng	97
31) Naphthalene	8.17	128	686021	38.474	ng	99
32) Benzoic acid	7.92	122	132697	33.246	ng	97
33) 4-Chloroaniline	8.22	127	43147	5.604	ng	95
34) Hexachlorobutadiene	8.29	225	126655	35.071	ng	98
35) Caprolactam	8.59	113	62644m	39.418	ng	
36) 4-Chloro-3-methylphenol	8.71	107	208295	38.408	ng	97
37) 2-Methylnaphthalene	8.87	142	471183	39.033	ng	97
38) 1-Methylnaphthalene	8.97	142	429193	37.866	ng	100
40) 1,2,4,5-Tetrachlorobenzene	9.03	216	206940	36.905	ng	100

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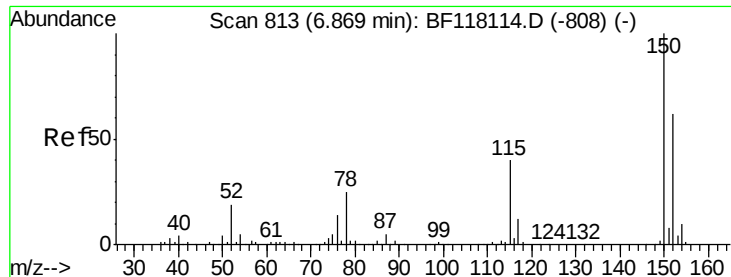
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Quant Time: Dec 17 04:55:29 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.02	237	123921	49.324	nq	98
43) 2,4,6-Trichlorophenol	9.15	196	141875	37.894	nq	99
44) 2,4,5-Trichlorophenol	9.19	196	151866	39.152	nq	96
46) 1,1'-Biphenyl	9.33	154	564997	38.702	nq	99
47) 2-Chloronaphthalene	9.36	162	438296	37.323	nq	99
48) 2-Nitroaniline	9.46	65	119789	35.770	nq	90
49) Acenaphthylene	9.77	152	709901	40.986	nq	99
50) Dimethylphthalate	9.63	163	540932	39.564	nq	99
51) 2,6-Dinitrotoluene	9.70	165	117945	39.672	nq #	88
52) Acenaphthene	9.95	154	403508	38.168	nq	99
53) 3-Nitroaniline	9.86	138	49985	14.287	nq	97
54) 2,4-Dinitrophenol	9.98	184	61366	41.489	nq	91
55) Dibenzofuran	10.12	168	620108	40.031	nq	97
56) 4-Nitrophenol	10.04	139	176910	72.860	nq	89
57) 2,4-Dinitrotoluene	10.10	165	155887	39.285	nq	97
58) Fluorene	10.46	166	493136	40.058	nq	100
59) 2,3,4,6-Tetrachlorophenol	10.24	232	122493	38.277	nq	98
60) Diethylphthalate	10.33	149	519245	38.546	nq	98
61) 4-Chlorophenyl-phenylether	10.45	204	237773	38.387	nq	92
62) 4-Nitroaniline	10.48	138	115740	31.718	nq	98
63) Azobenzene	10.62	77	451737	39.283	nq	97
65) 4,6-Dinitro-2-methylphenol	10.52	198	53594	27.360	nq	94
66) n-Nitrosodiphenylamine	10.57	169	432130	39.013	nq	100
67) 4-Bromophenyl-phenylether	10.95	248	148412	36.654	nq #	93
68) Hexachlorobenzene	11.02	284	174669	36.651	nq	96
69) Atrazine	11.10	200	130095	43.547	nq	96
70) Pentachlorophenol	11.22	266	161093	71.878	nq	98
71) Phenanthrene	11.43	178	776378	41.175	nq	99
72) Anthracene	11.49	178	757648	40.280	nq	99
73) Carbazole	11.64	167	663099	39.291	nq	99
74) Di-n-butylphthalate	11.96	149	821687	38.904	nq	100
75) Fluoranthene	12.63	202	818918	42.480	nq	99
77) Benzidine	12.75	184	214068	33.829	nq	98
78) Pyrene	12.86	202	829787	43.805	nq	98
80) Butylbenzylphthalate	13.47	149	331441	38.635	nq	98
81) Benzo(a)anthracene	14.05	228	674797	40.598	nq	100
82) 3,3'-Dichlorobenzidine	14.01	252	152891	28.008	nq	97
83) Chrysene	14.09	228	655264	41.271	nq	100
84) Bis(2-ethylhexyl)phthalate	14.03	149	453407	40.082	nq	100
85) Di-n-octyl phthalate	14.64	149	712889	41.602	nq	100
86) Indeno(1,2,3-cd)pyrene	17.06	276	701827	52.536	nq	99
88) Benzo(b)fluoranthene	15.11	252	704674	38.175	nq	99
89) Benzo(k)fluoranthene	15.14	252	608545	34.317	nq #	98
90) Benzo(a)pyrene	15.49	252	652134	40.001	nq	99
91) Dibenzo(a,h)anthracene	17.07	278	576580	41.234	nq	98
92) Benzo(g,h,i)perylene	17.52	276	545961	40.632	nq	97

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



#1

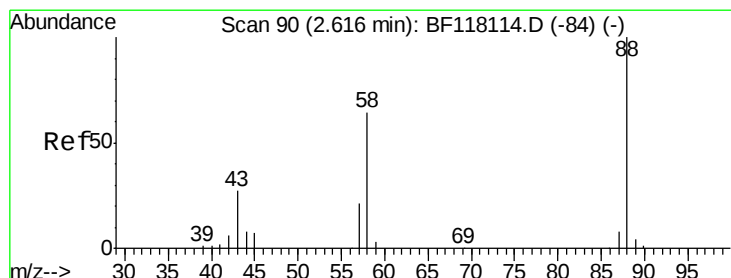
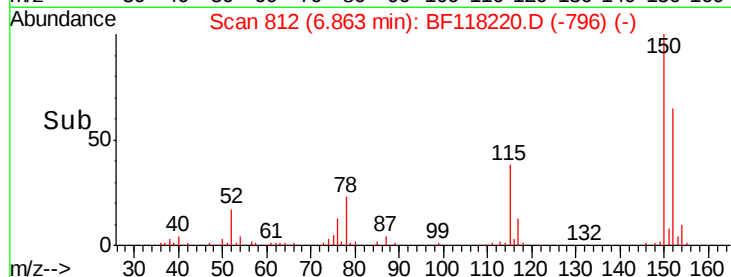
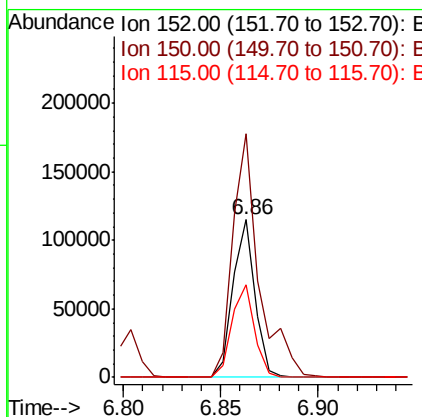
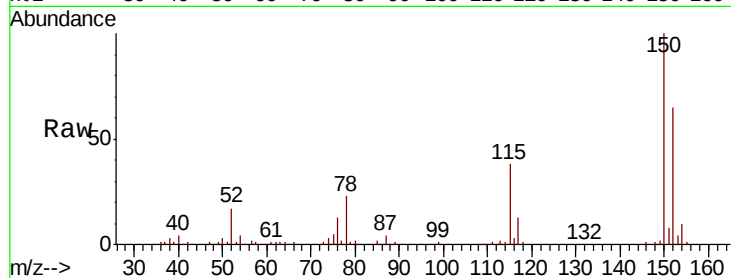
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
152	100		
150	154.6	128.3	192.5
115	58.9	51.1	76.7

Manual Integrations
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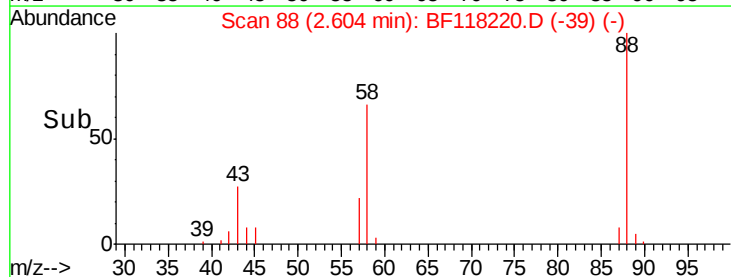
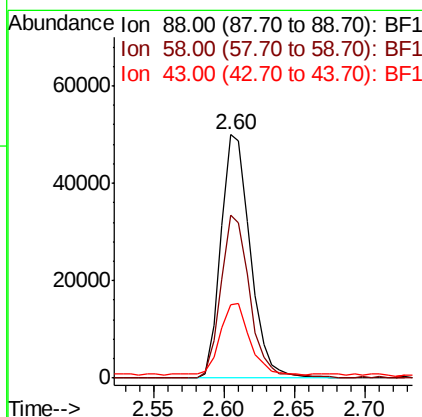
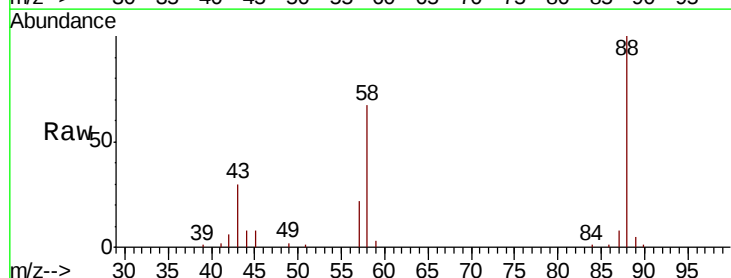
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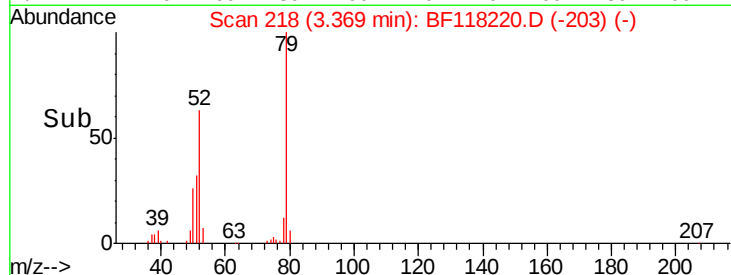
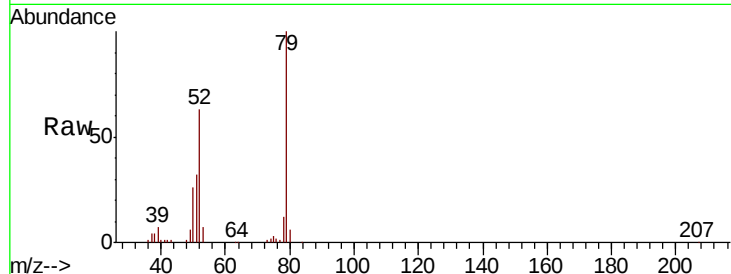
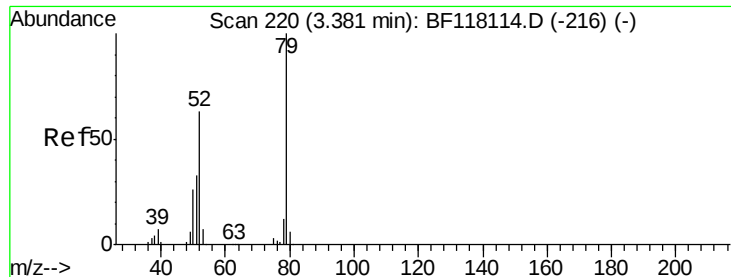


#2

1,4-Dioxane
Concen: 33.325 ng
RT: 2.60 min Scan# 88
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
88	100		
58	66.4	52.2	78.4
43	29.3	21.4	32.2





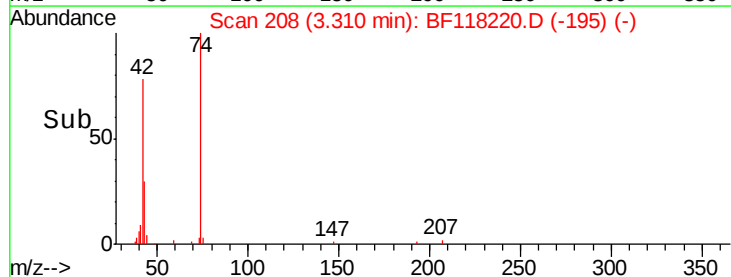
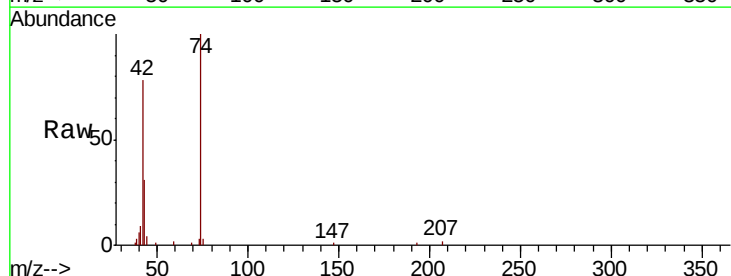
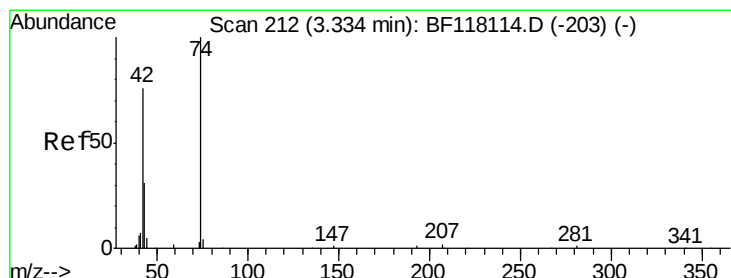
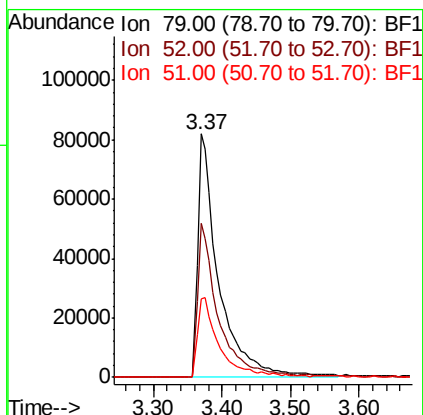
#3
 Pvridine
 Concen: 31.487 ng
 RT: 3.37 min Scan# 218
 Delta R.T. -0.01 min
 Lab File: BF118220.D
 Acq: 17 Dec 2019 2:18

Tot Ion:	79	Resp:	175925
Ion Ratio	Lower	Upper	
79	100		
52	63.3	50.7	76.1
51	32.3	26.4	39.6

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCMS

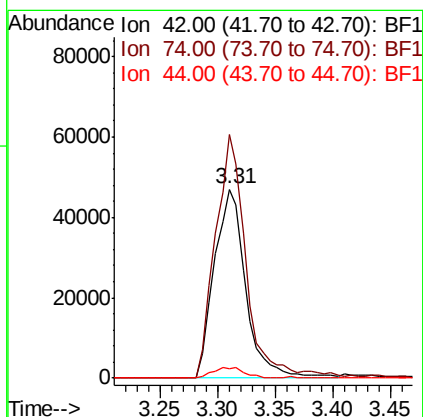
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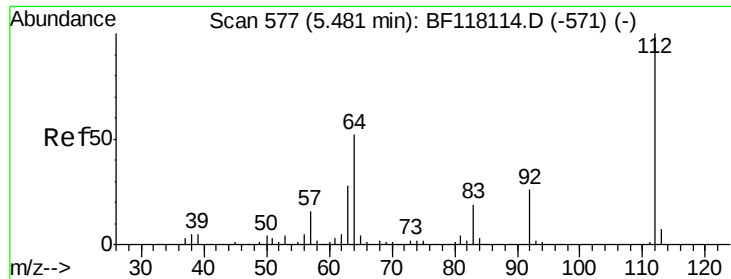
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#4
 n-Nitrosodimethylamine
 Concen: 37.147 ng
 RT: 3.31 min Scan# 208
 Delta R.T. -0.02 min
 Lab File: BF118220.D
 Acq: 17 Dec 2019 2:18

Tgt Ion:	42	Resp:	89285
Ion Ratio	Lower	Upper	
42	100		
74	128.8	104.6	157.0
44	5.2	5.1	7.7





#5

2-Fluorophenol

Concen: 93.292 ng

RT: 5.47 min Scan# 576

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

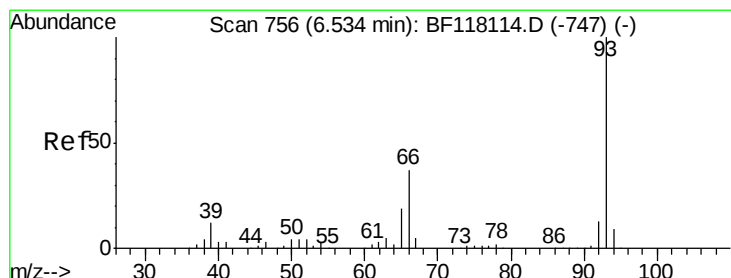
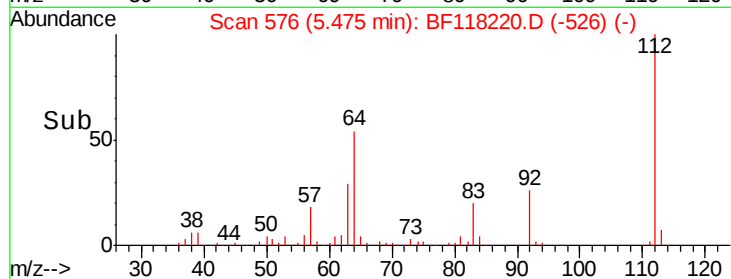
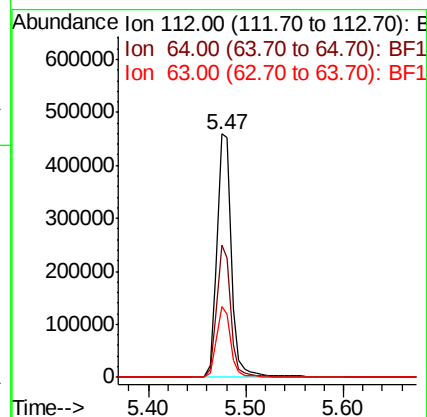
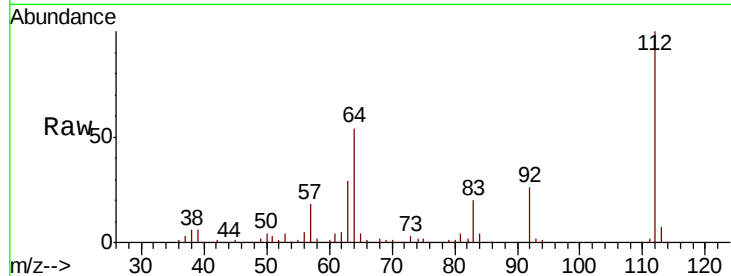
ClientSampleId :

42-SPRUCEMS

Tot Ion:	112	Resp:	479146
Ion Ratio	Lower	Upper	
112	100		
64	54.2	41.3	61.9
63	29.3	22.4	33.6

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#6

Aniline

Concen: 12.844 ng

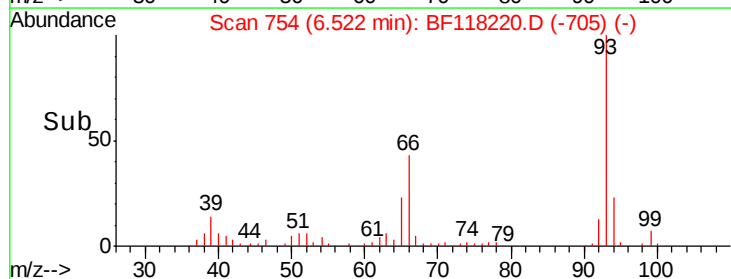
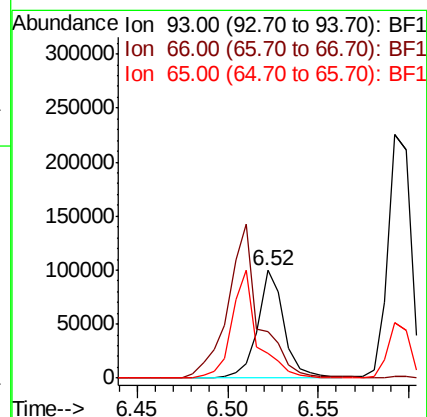
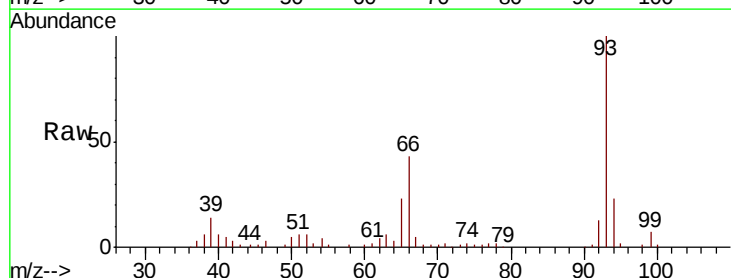
RT: 6.52 min Scan# 754

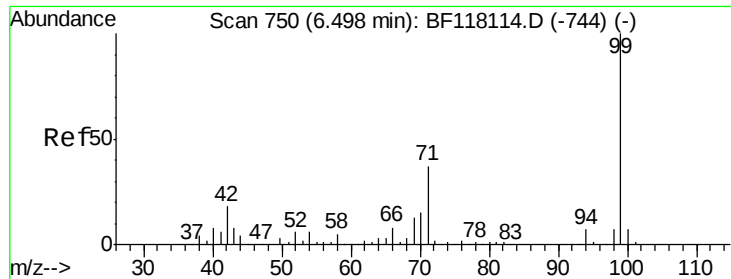
Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Tgt Ion:	93	Resp:	102064
Ion Ratio	Lower	Upper	
93	100		
66	42.9	30.2	45.2
65	23.4	15.5	23.3





#7

Phenol-d6

Concen: 98.677 ng

RT: 6.50 min Scan# 750

Delta R.T. -0.00 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

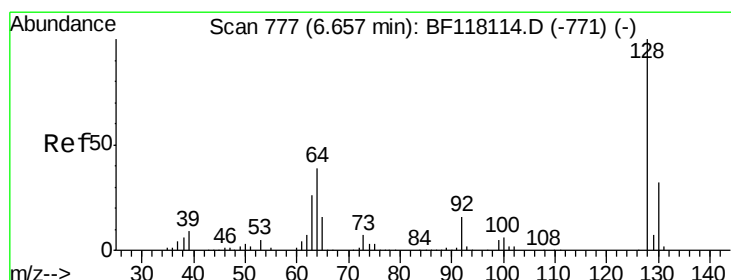
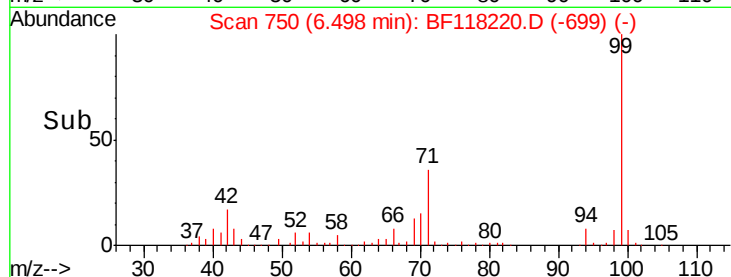
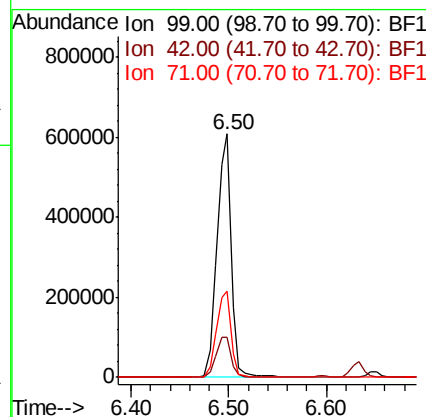
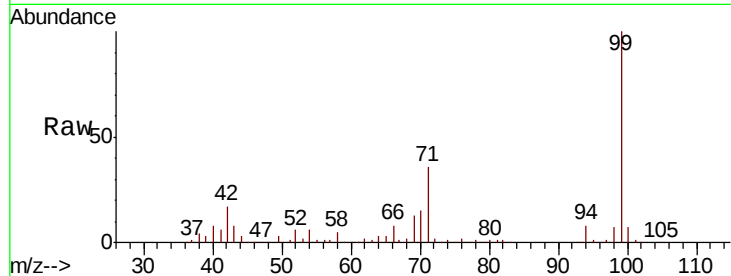
ClientSampleId :

42-SPRUCEMS

Tot Ion:	99	Resp:	612993
Ion Ratio	Lower	Upper	
99	100		
42	16.7	14.1	21.1
71	35.6	29.7	44.5

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#8

2-Chlorophenol

Concen: 40.418 ng

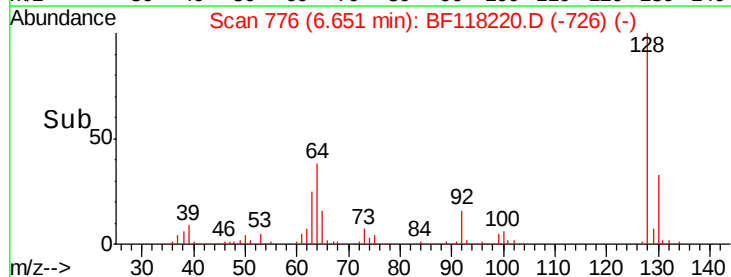
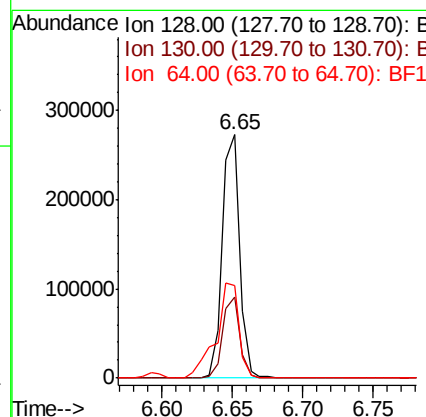
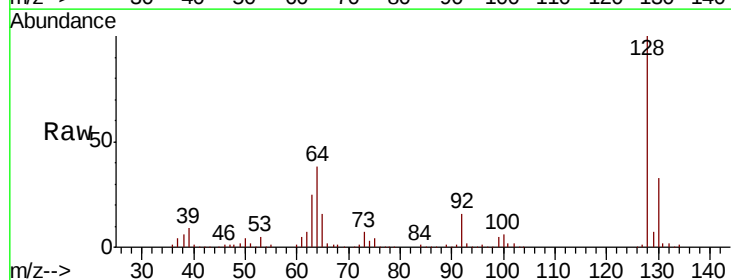
RT: 6.65 min Scan# 776

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Tgt Ion:	128	Resp:	234068
Ion Ratio	Lower	Upper	
128	100		
130	33.4	12.1	52.1
64	38.1	19.3	59.3





#9

Benzaldehyde

Concen: 19.666 ng

RT: 6.41 min Scan# 735

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

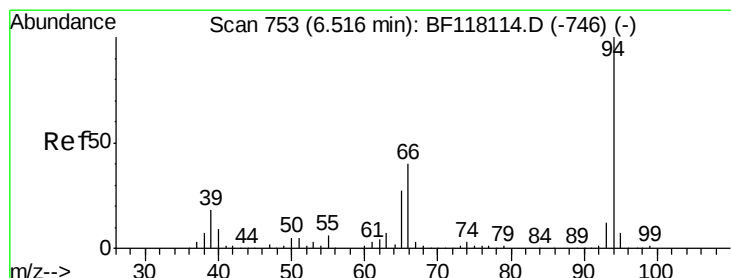
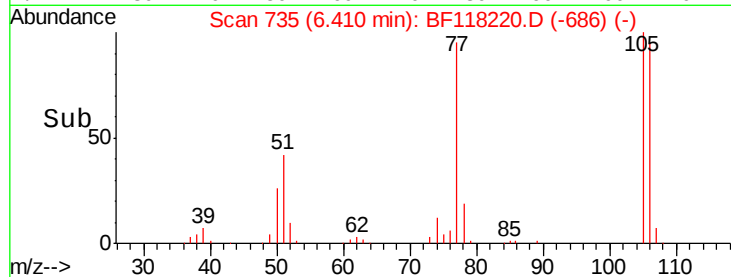
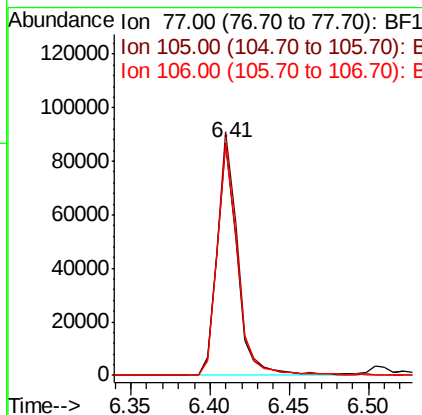
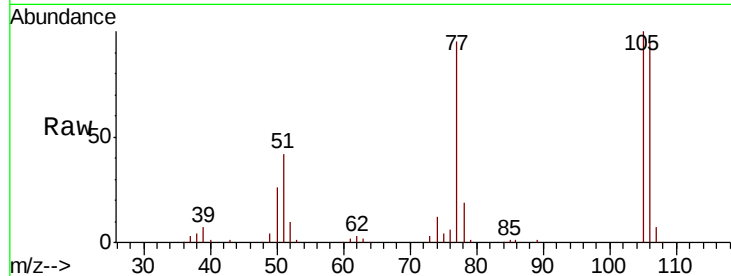
ClientSampleId :

42-SPRUCMS

Tot Ion:	77	Resp:	77010
Ion	Ratio	Lower	Upper
77	100		
105	104.8	86.4	126.4
106	99.6	83.8	123.8

Manual Integrations
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#10

Phenol

Concen: 40.071 ng

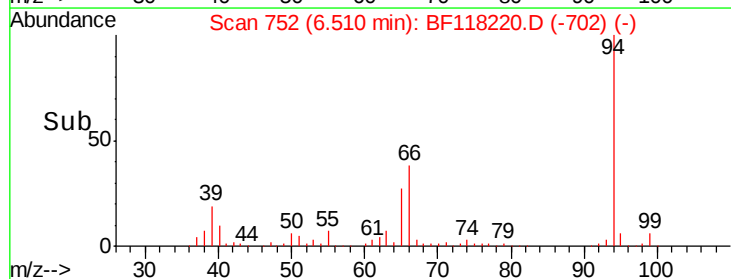
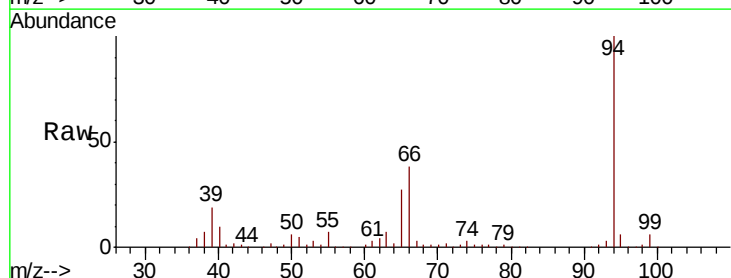
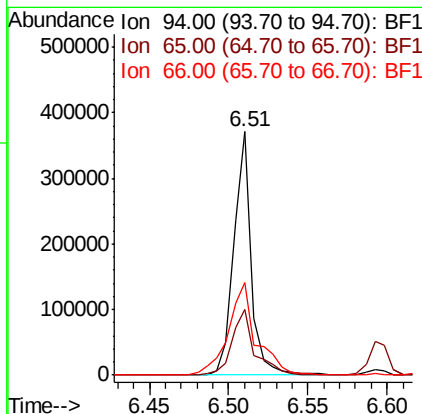
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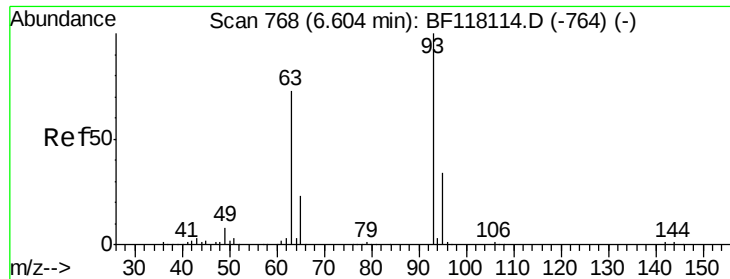
Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Tgt Ion:	94	Resp:	283880
Ion	Ratio	Lower	Upper
94	100		
65	27.0	7.3	47.3
66	38.3	20.2	60.2





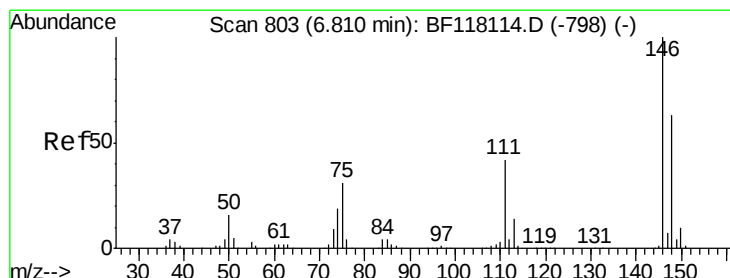
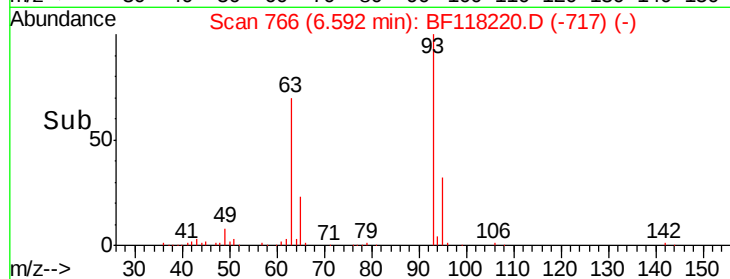
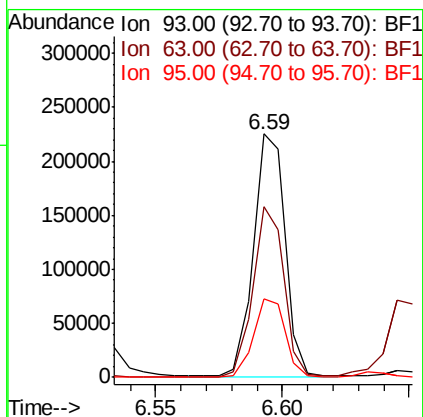
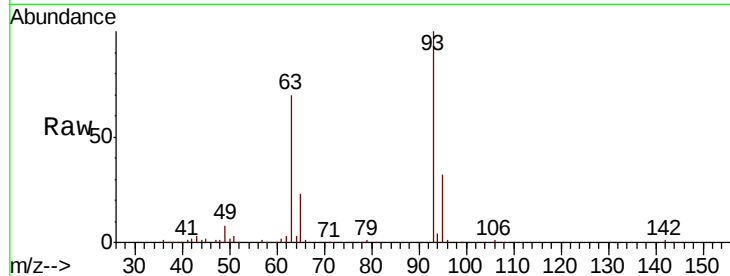
#11
bis(2-Chloroethyl)ether
Concen: 38.837 ng
RT: 6.59 min Scan# 766
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMS

Tot Ion	Ratio	Resp	Lower	Upper
93	100	198993		
63	70.0	53.2	93.2	
95	32.0	13.8	53.8	

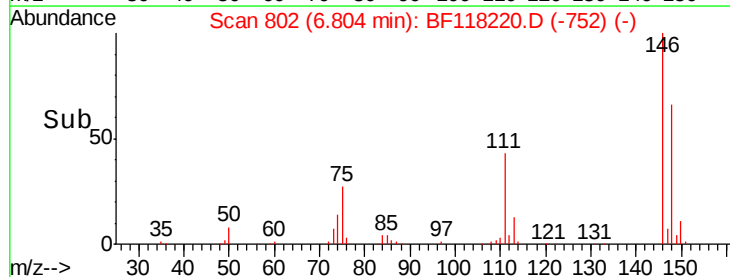
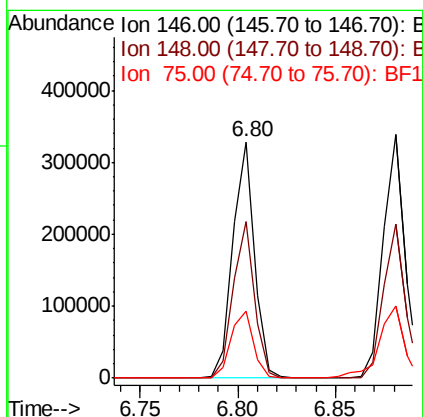
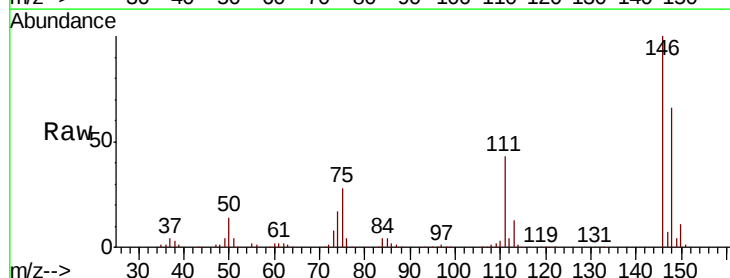
Manual Integrations
APPROVED

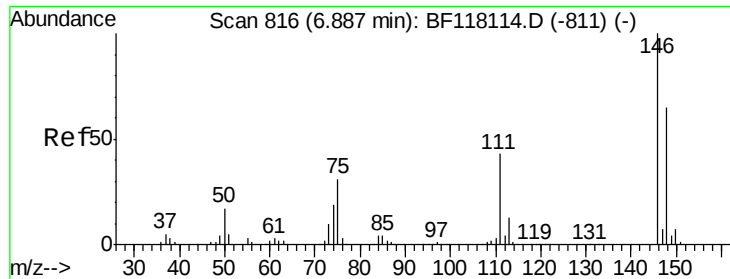
mohammad
12/17/2019 3:19:32 PM



#12
1,3-Dichlorobenzene
Concen: 37.448 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	253345		
148	66.4	50.2	75.4	
75	28.1	24.6	37.0	





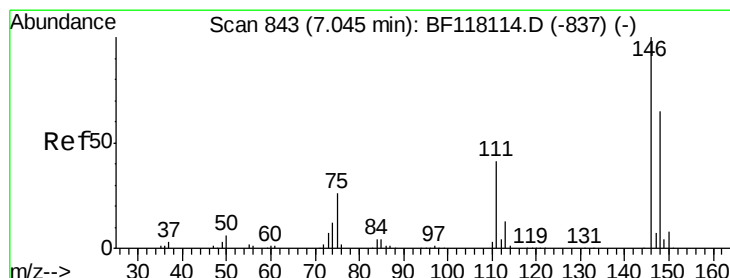
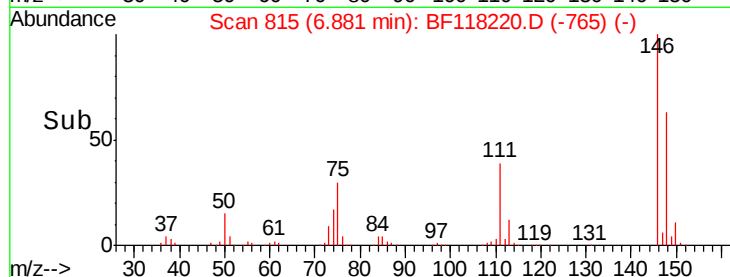
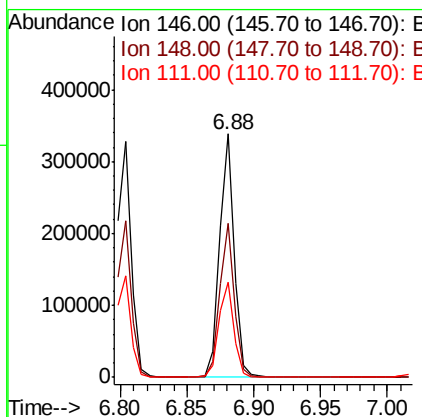
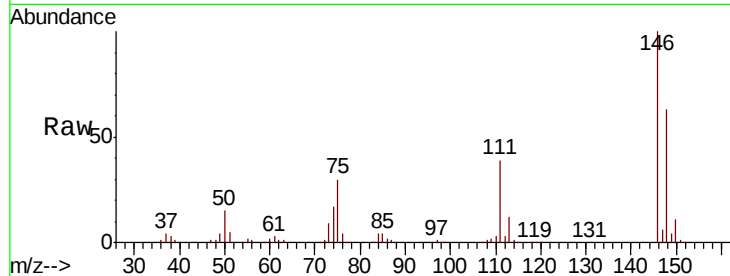
#13
1,4-Dichlorobenzene
Concen: 38.534 ng
RT: 6.88 min Scan# 815
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
146	100		
148	63.2	52.1	78.1
111	39.2	34.6	52.0

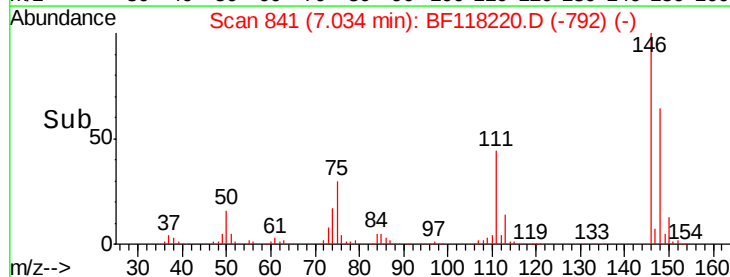
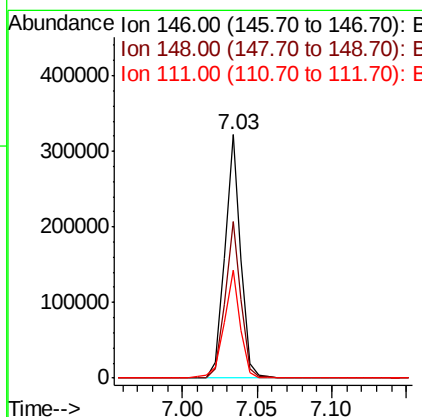
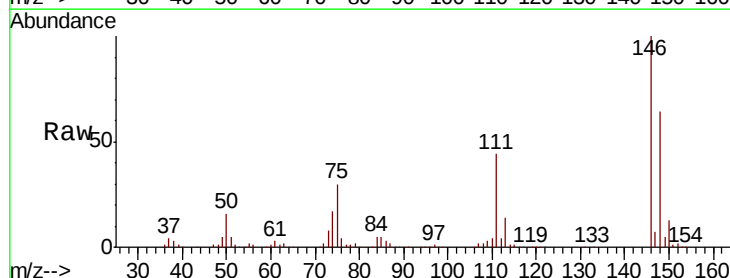
Manual Integrations
APPROVED

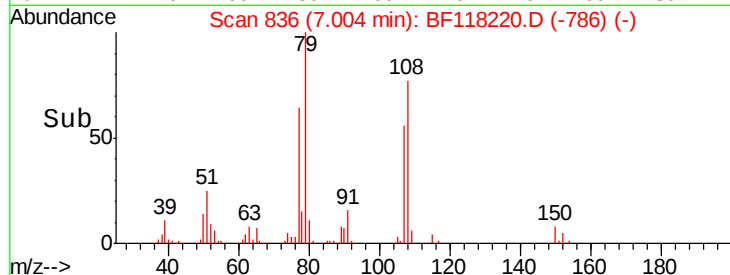
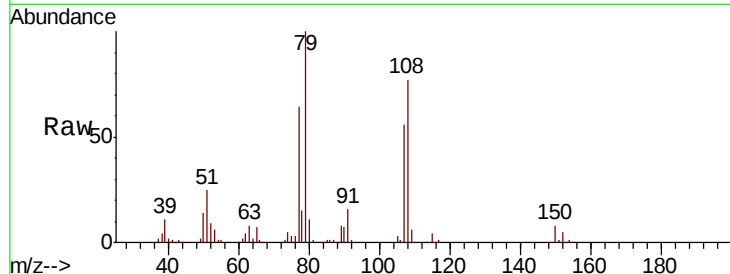
mohammad
12/17/2019 3:19:32 PM



#14
1,2-Dichlorobenzene
Concen: 37.988 ng
RT: 7.03 min Scan# 841
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
146	100		
148	64.1	52.2	78.2
111	44.2	33.1	49.7





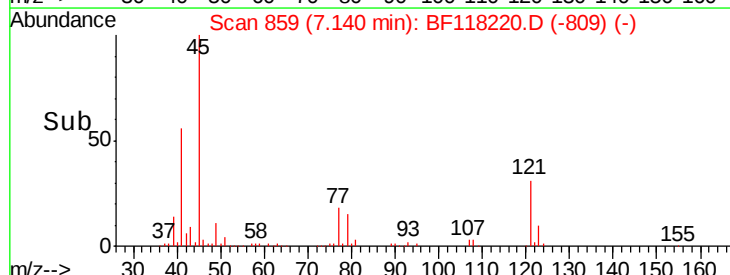
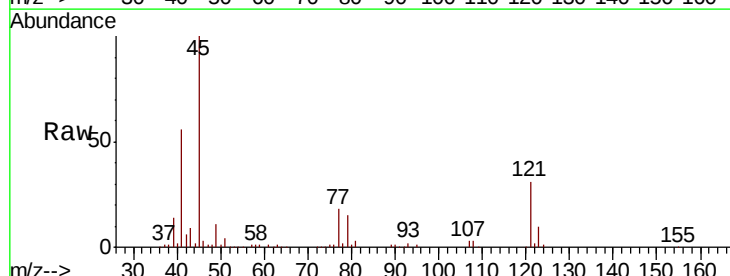
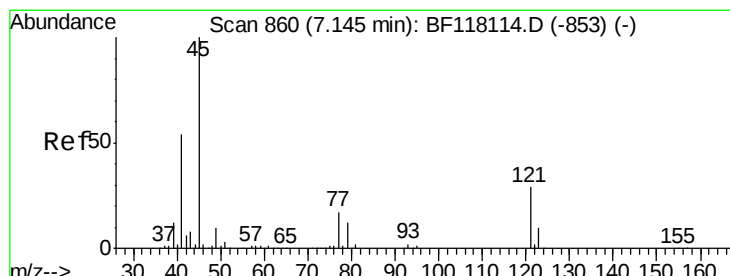
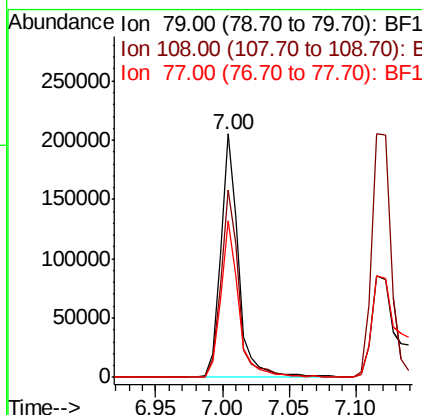
#15
Benzyl Alcohol
Concen: 39.673 ng
RT: 7.00 min Scan# 836
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tot Ion	Ratio	Resp	Lower	Upper
79	100	192380		
108	76.9	62.7	94.1	
77	64.1	51.4	77.2	

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMS

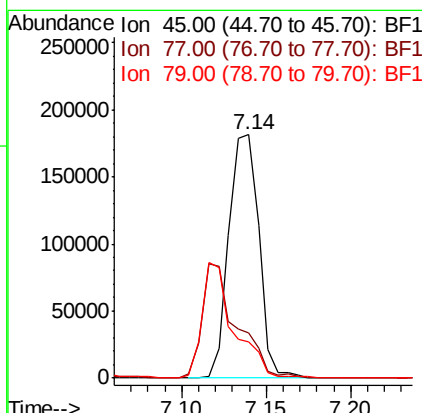
Manual Integrations
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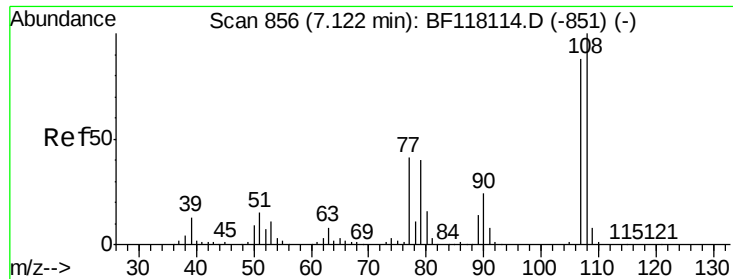
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#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.552 ng
RT: 7.14 min Scan# 859
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
45	100	225184		
77	18.5	0.0	38.0	
79	15.0	0.0	33.2	





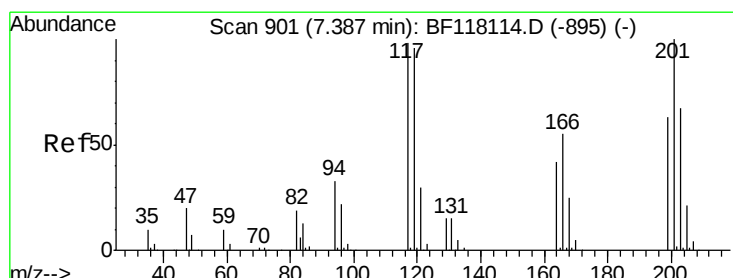
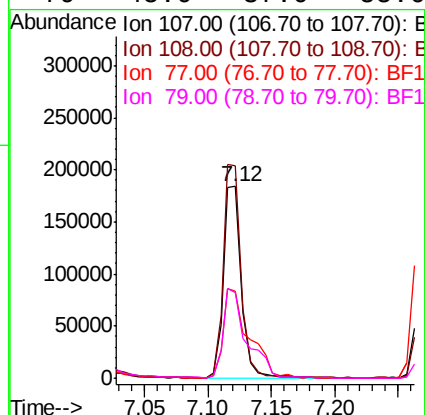
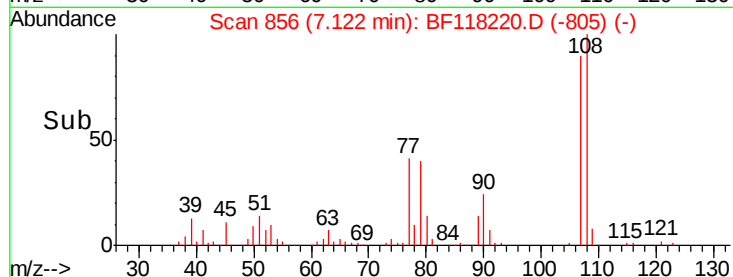
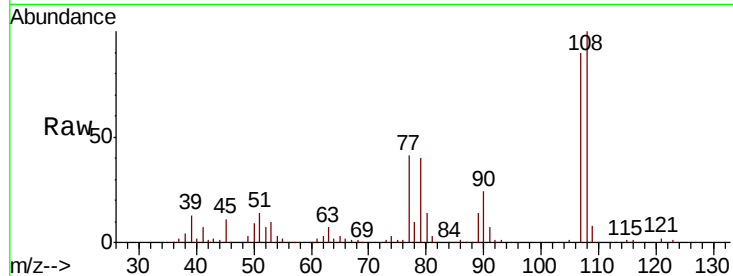
#17
2-Methylphenol
Concen: 39.476 ng
RT: 7.12 min Scan# 856
Delta R.T. -0.00 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Resp	Lower	Upper
107	100			
108	111.1	91.1	136.7	
77	45.1	37.8	56.6	
79	45.0	37.0	55.6	

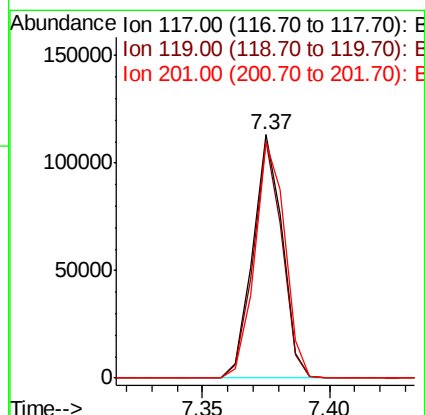
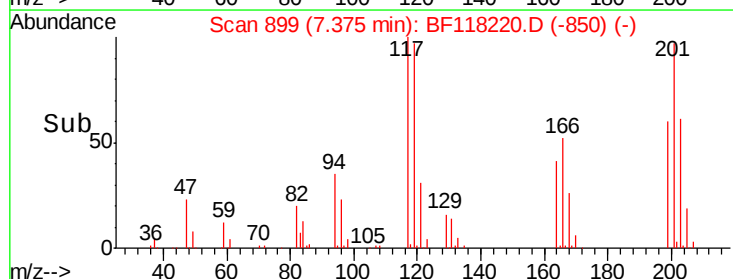
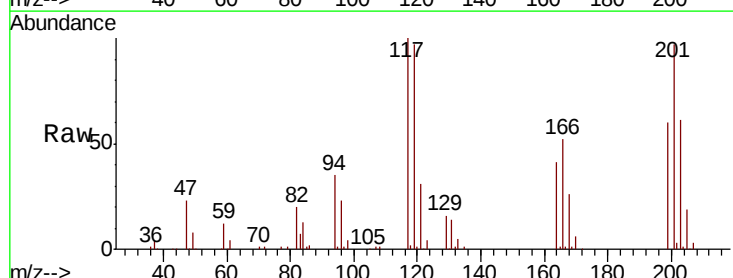
Manual Integrations
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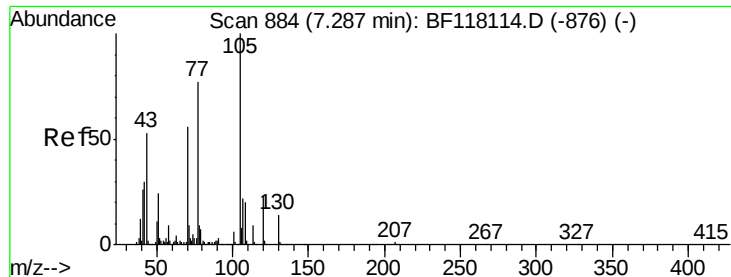
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#18
Hexachloroethane
Concen: 36.548 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	97.4	78.2	117.4	
201	97.1	81.6	122.4	





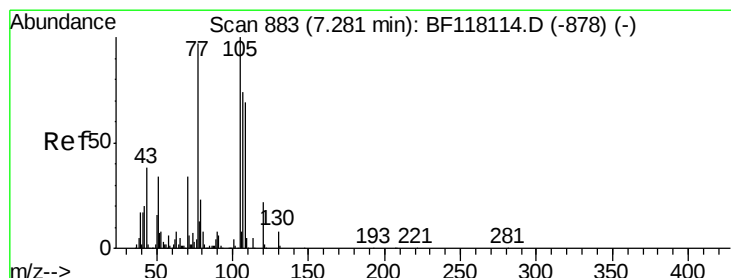
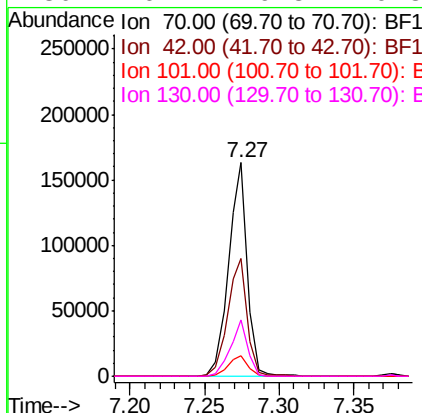
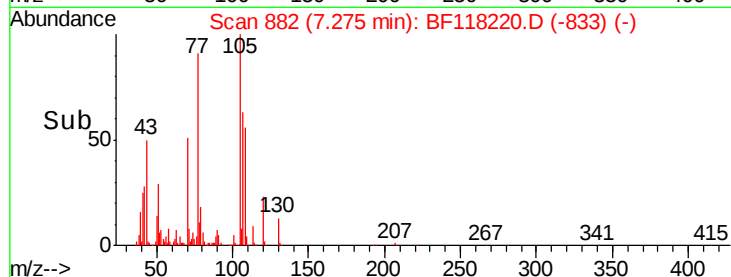
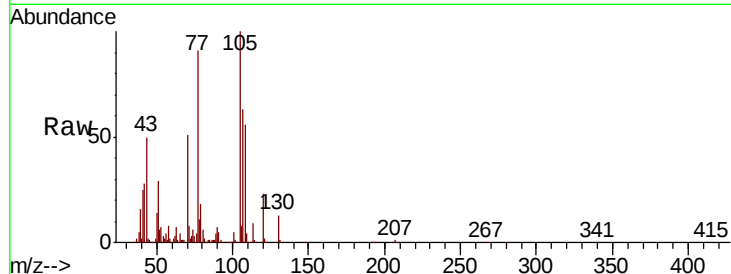
#19
n-Nitroso-di-n-propylamine
Concen: 38.329 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
70	100		
42	54.9	43.2	64.8
101	9.6	8.1	12.1
130	26.1	19.8	29.8

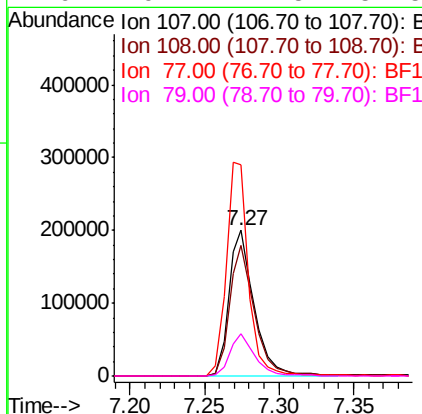
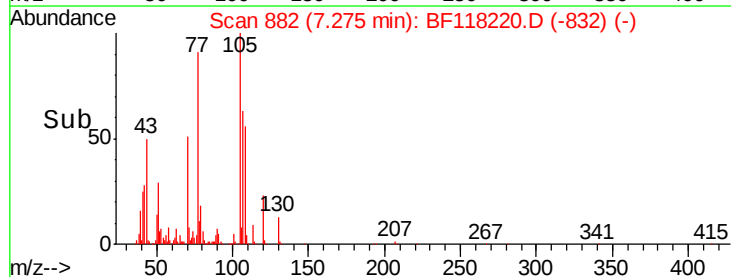
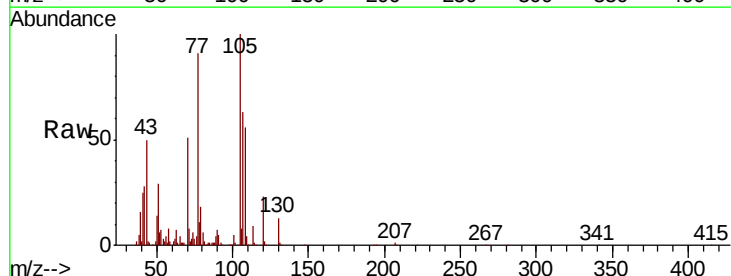
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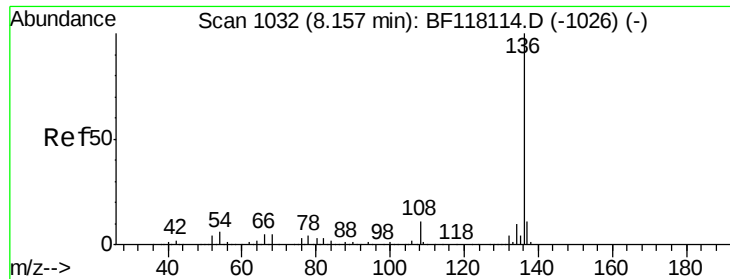
mohammad
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#20
3+4-Methylphenols
Concen: 40.623 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
107	100		
108	89.5	73.2	113.2
77	145.0	110.9	150.9
79	29.2	11.5	51.5





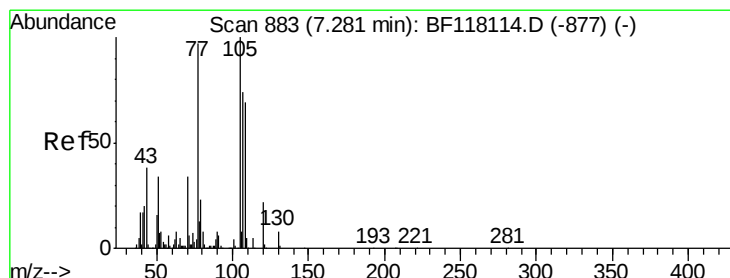
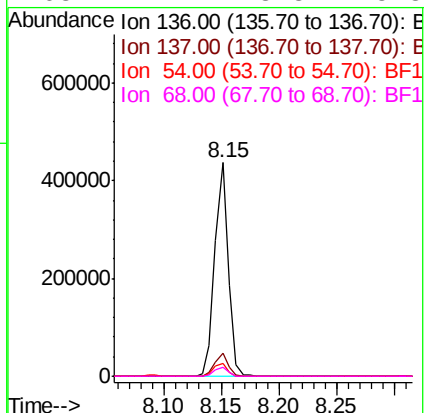
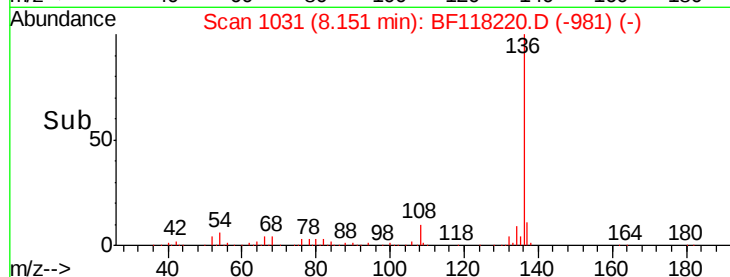
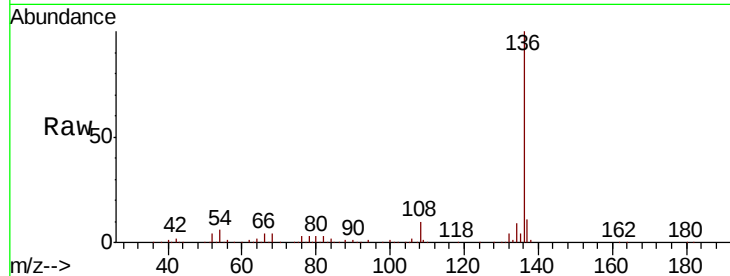
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.15 min Scan# 1031
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	10.6	9.0	13.6	
54	6.1	5.0	7.6	
68	4.4	3.8	5.8	

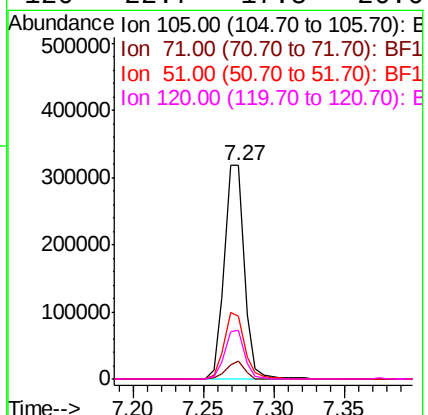
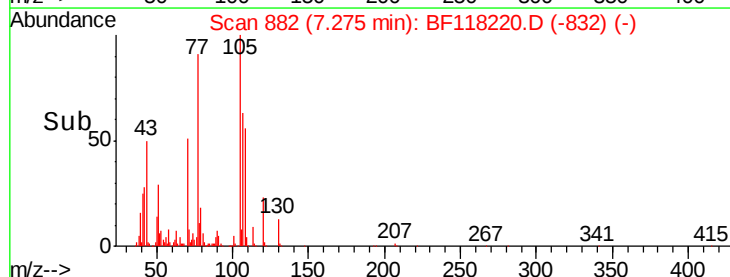
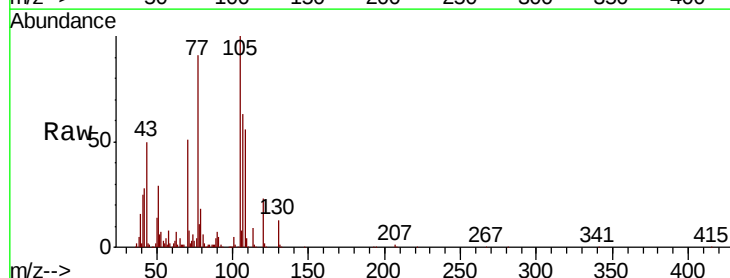
Manual Integrations
APPROVED

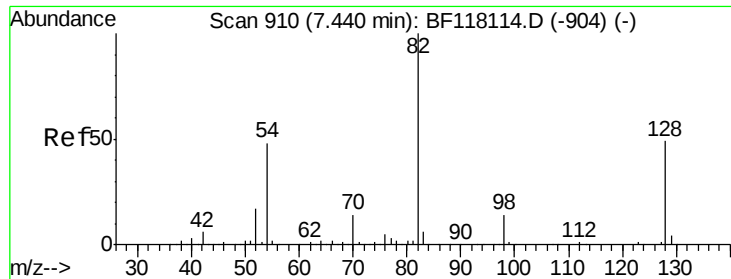
mohammad
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#22
Acetophenone
Concen: 37.137 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
71	8.2	4.7	7.1#	
51	29.4	27.1	40.7	
120	22.7	17.8	26.6	





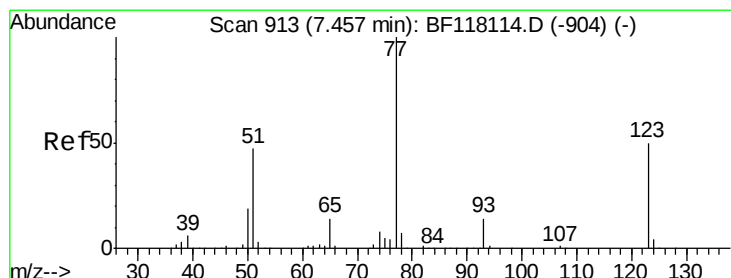
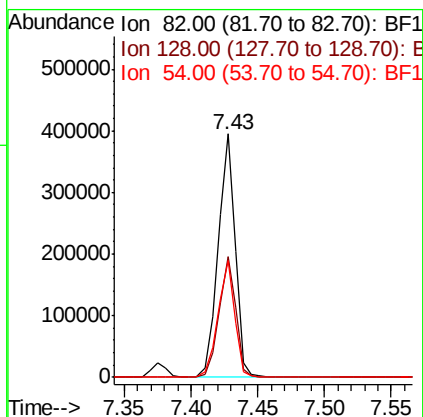
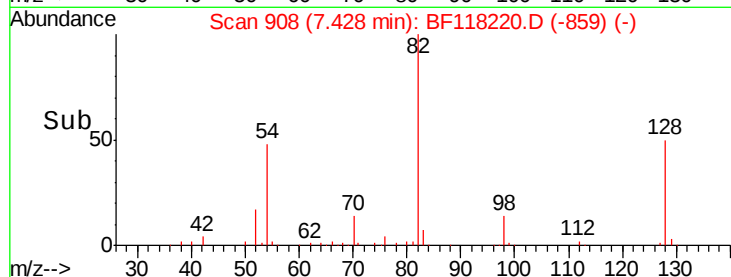
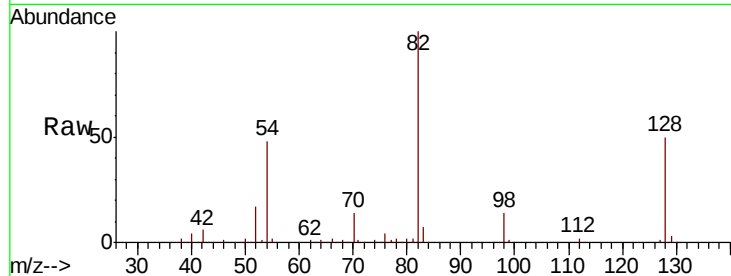
#23
Nitrobenzene-d5
Concen: 56.915 ng
RT: 7.43 min Scan# 908
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
82	100		
128	49.5	39.1	58.7
54	48.2	38.2	57.2

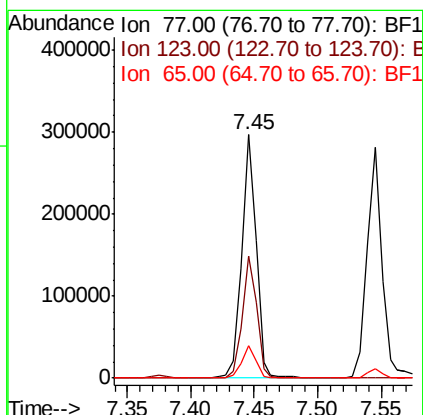
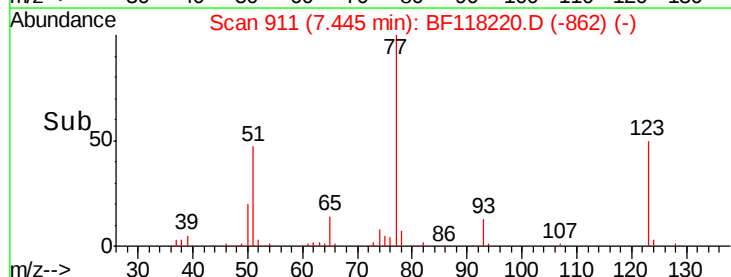
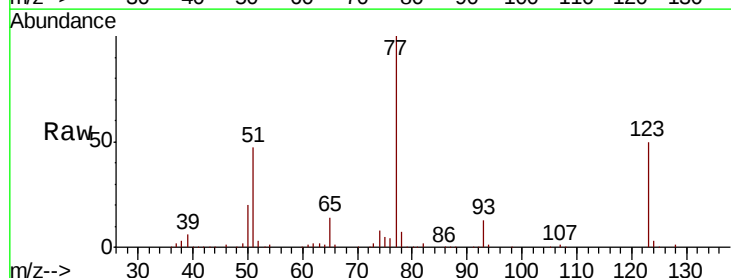
Manual Integrations
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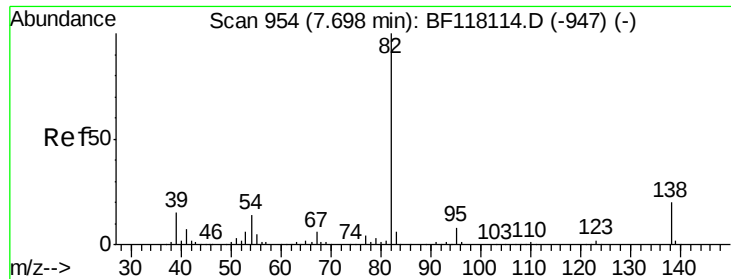
mohammad
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#24
Nitrobenzene
Concen: 37.027 ng
RT: 7.45 min Scan# 911
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
77	100		
123	50.1	40.1	60.1
65	13.5	10.9	16.3





#25

Isophorone

Concen: 37.450 ng

RT: 7.69 min Scan# 952

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

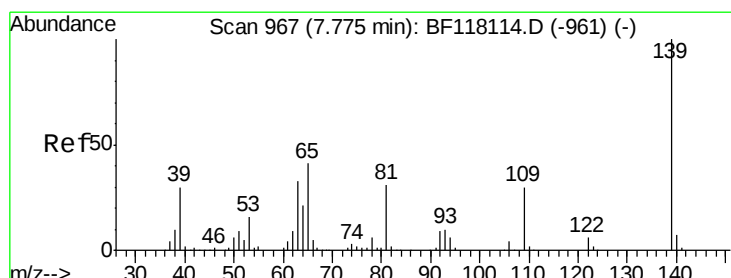
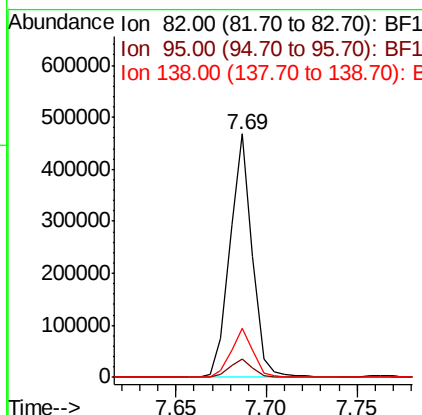
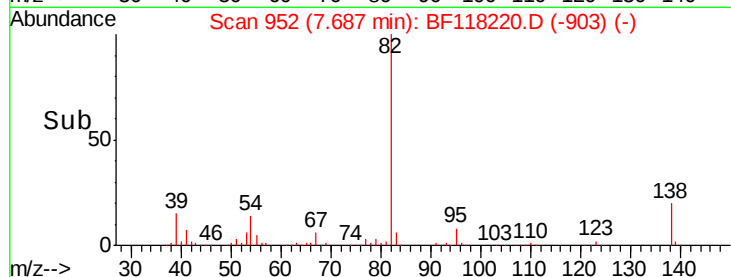
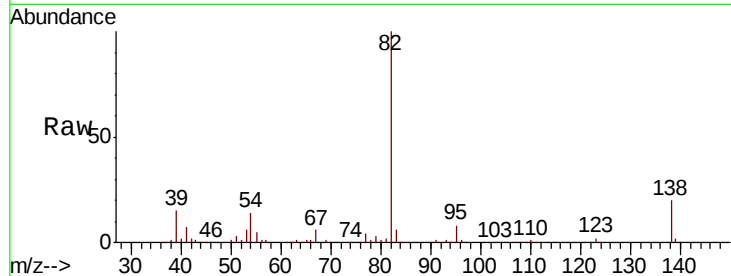
ClientSampleId :

42-SPRUCEMS

Tot Ion:	82	Resp:	400648
Ion Ratio	Lower	Upper	
82	100		
95	7.7	6.3	9.5
138	20.0	16.3	24.5

Manual Integrations
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#26

2-Nitrophenol

Concen: 38.300 ng

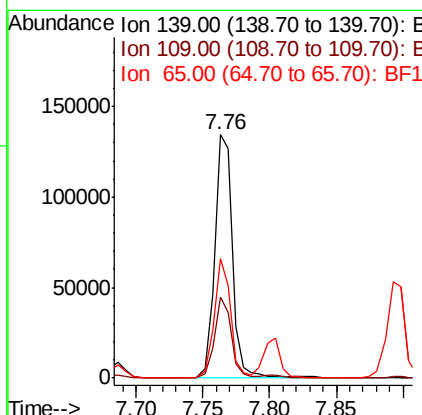
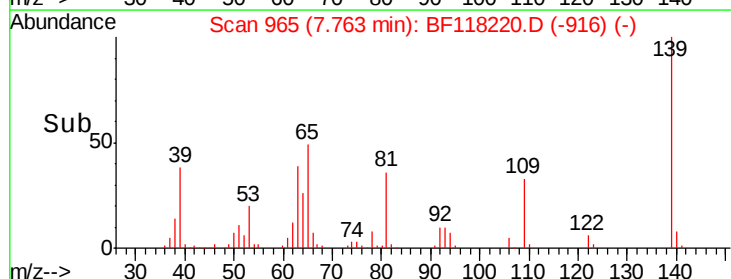
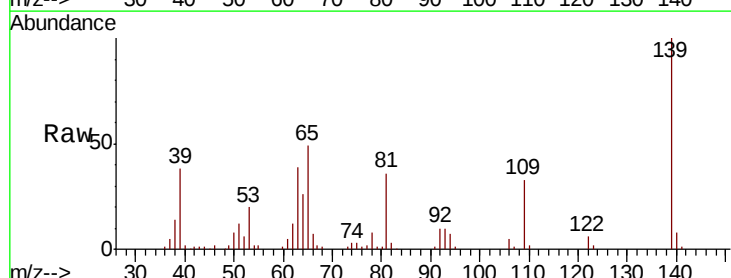
RT: 7.76 min Scan# 965

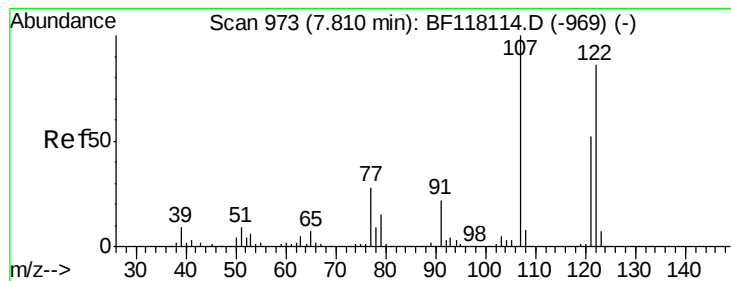
Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Tgt Ion:	139	Resp:	126927
Ion Ratio	Lower	Upper	
139	100		
109	33.3	23.9	35.9
65	48.8	33.0	49.6





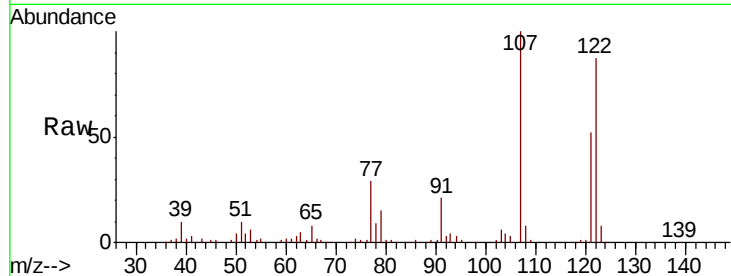
#27
2,4-Dimethylphenol
Concen: 43.877 ng
RT: 7.80 min Scan# 972
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Resp	Lower	Upper
122	100	193959		
107	115.5	92.9	139.3	
121	59.7	48.3	72.5	

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12/17/2019 3:19:32 PM

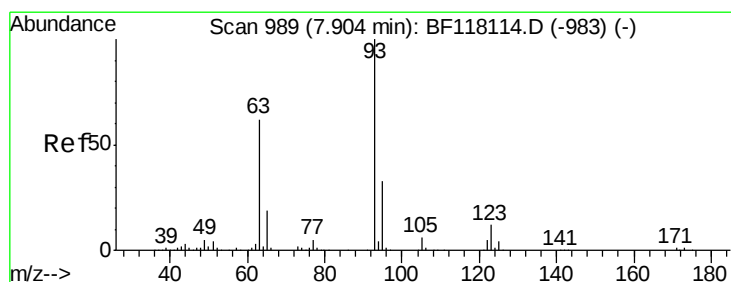
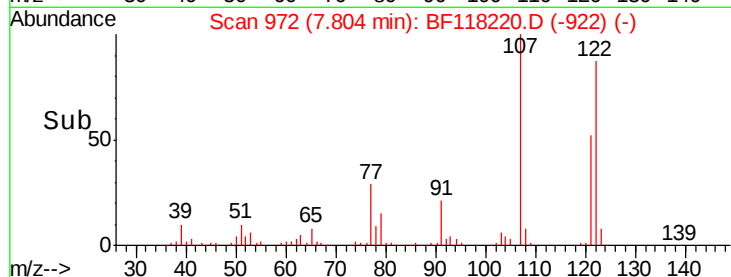
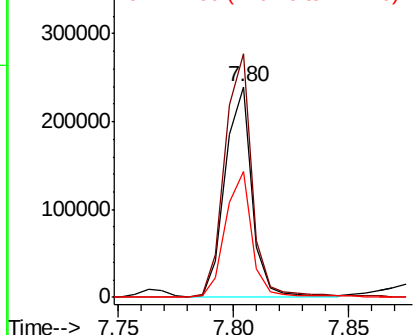


Abundance

Ion 122.00 (121.70 to 122.70): E

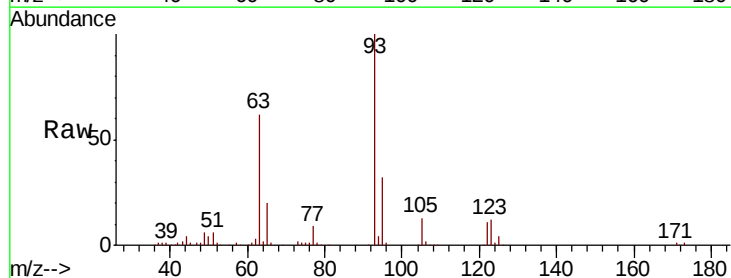
Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E



#28
bis(2-Chloroethoxy)methane
Concen: 36.102 ng
RT: 7.89 min Scan# 987
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	252375		
95	32.3	26.7	40.1	
123	12.2	10.0	15.0	

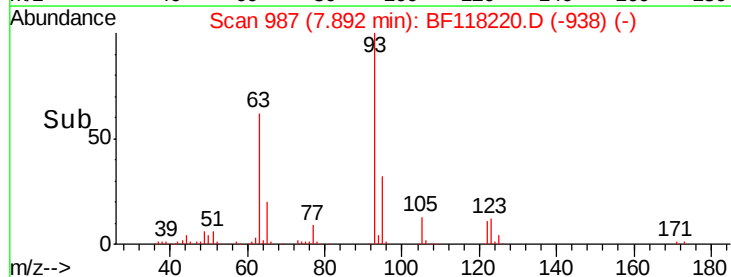
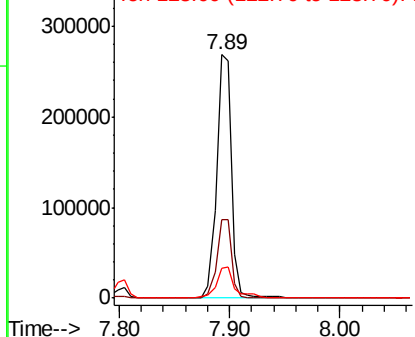


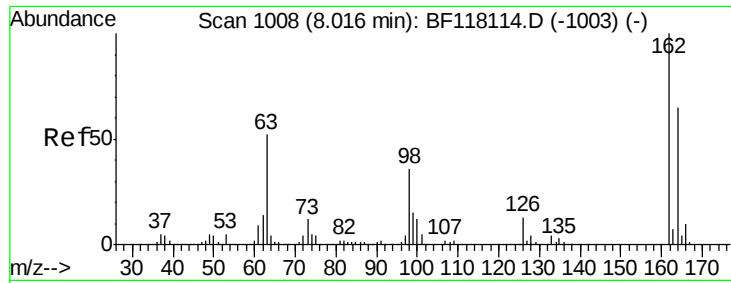
Abundance

Ion 93.00 (92.70 to 93.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 123.00 (122.70 to 123.70): E





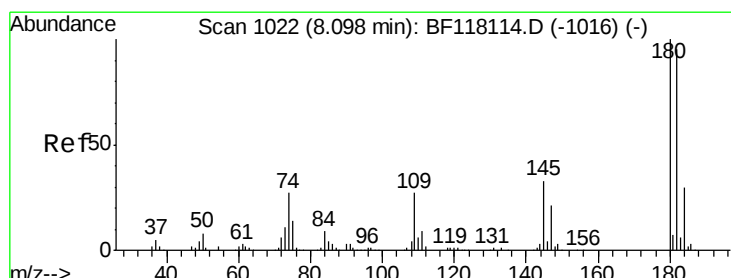
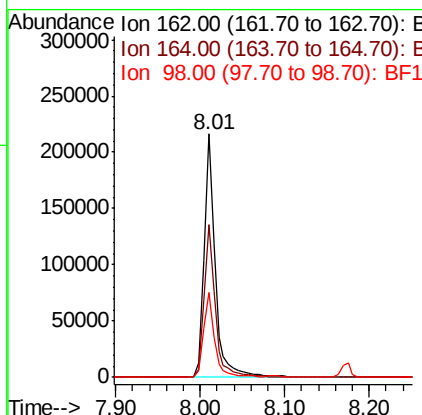
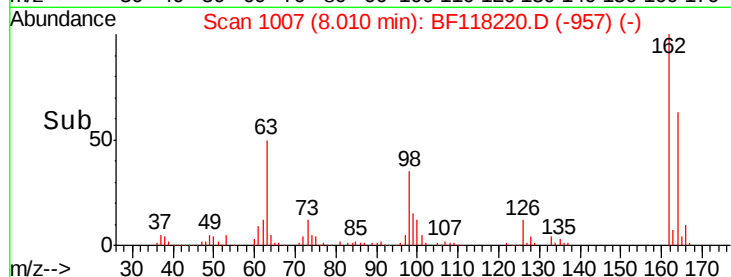
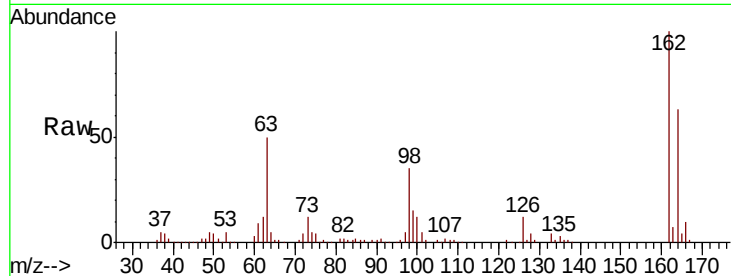
#29
2,4-Dichlorophenol
Concen: 38.097 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion:	162	Resp:	196327
Ion Ratio	Lower	Upper	
162	100		
164	62.8	45.2	85.2
98	34.9	15.9	55.9

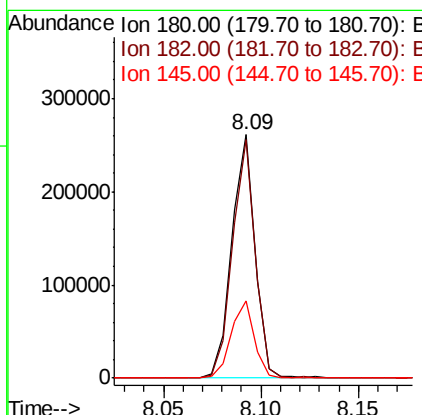
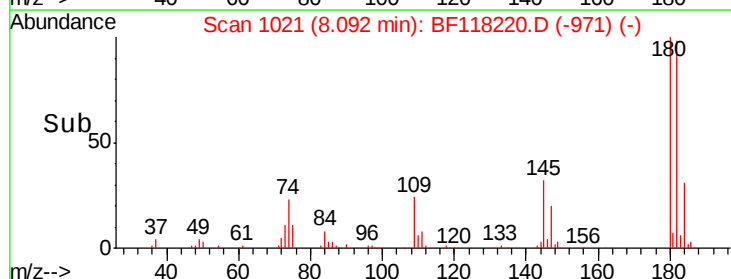
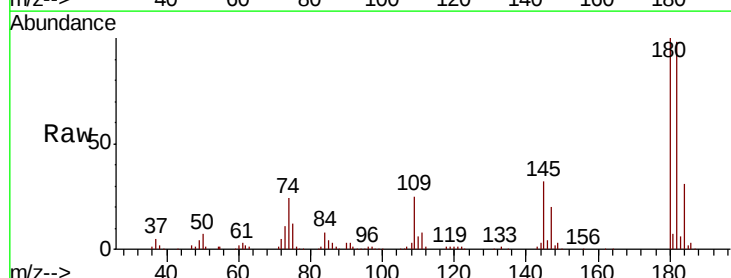
Manual Integrations
APPROVED

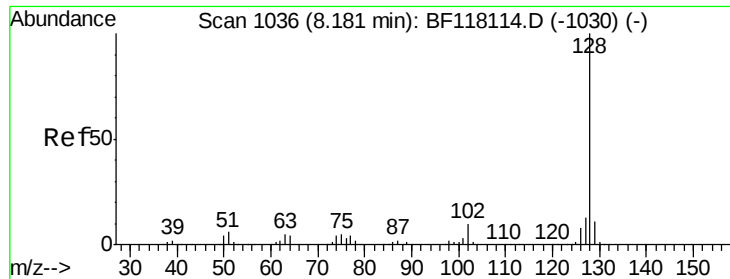
mohammad
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#30
1,2,4-Trichlorobenzene
Concen: 35.850 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion:	180	Resp:	215907
Ion Ratio	Lower	Upper	
180	100		
182	98.1	76.1	114.1
145	31.5	26.1	39.1





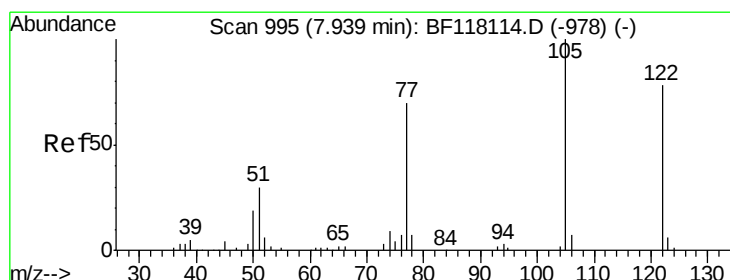
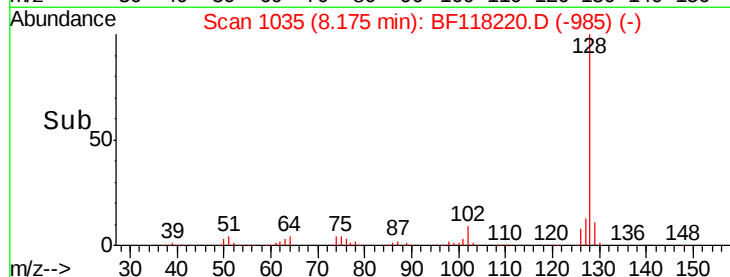
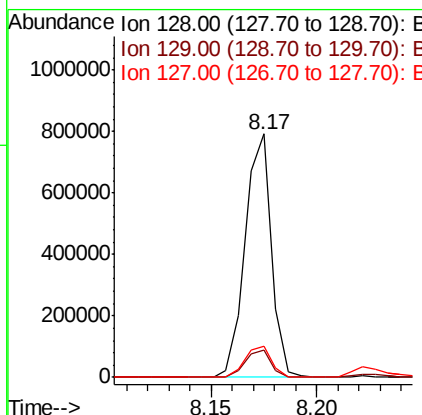
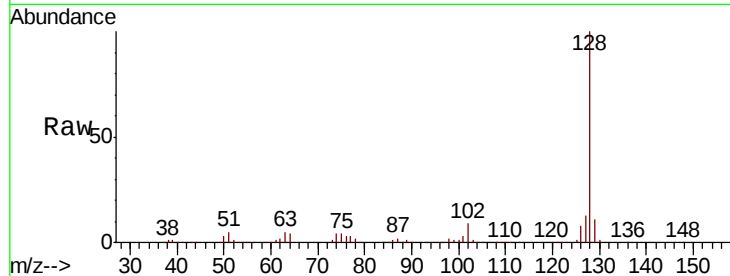
#31
Naphthalene
Concen: 38.474 ng
RT: 8.17 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.1	13.7
127	13.0	10.6	16.0

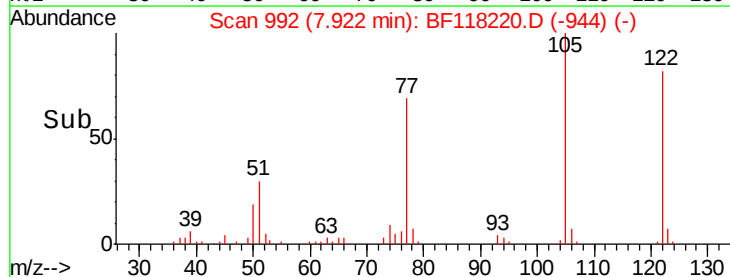
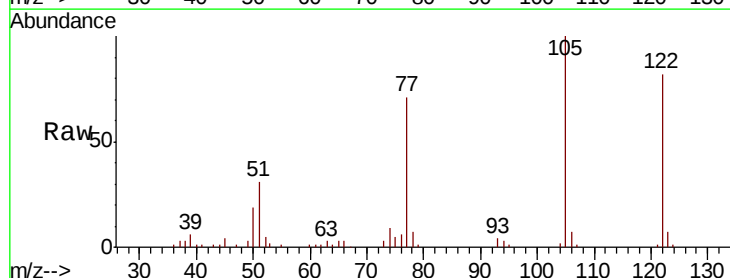
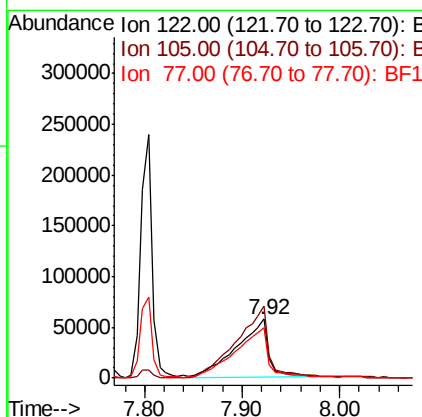
Manual Integrations
APPROVED

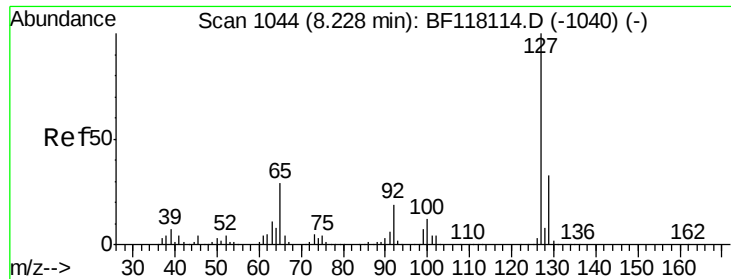
mohammad
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#32
Benzoic acid
Concen: 33.246 ng
RT: 7.92 min Scan# 992
Delta R.T. -0.02 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
122	100		
105	121.9	104.7	144.7
77	86.0	69.1	109.1





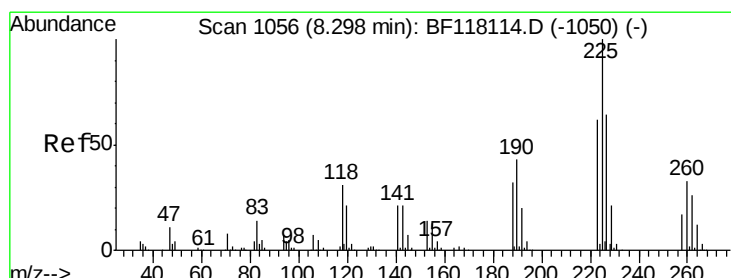
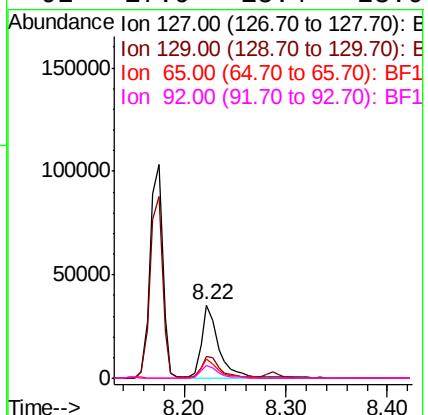
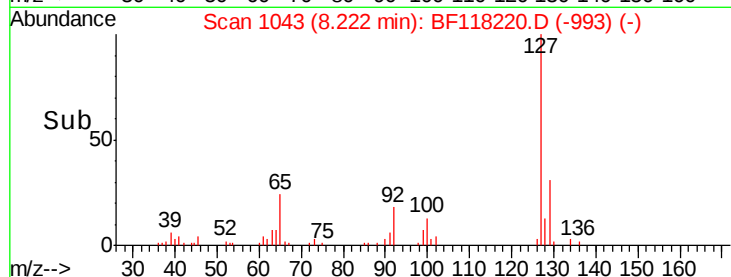
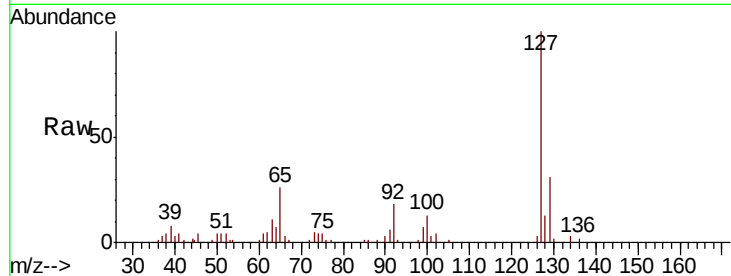
#33
4-Chloroaniline
Concen: 5.604 ng
RT: 8.22 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100		43147		
129	30.5	26.6	40.0		
65	26.1	23.2	34.8		
92	17.9	15.4	23.0		

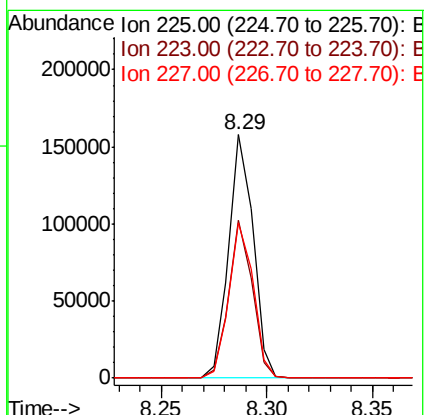
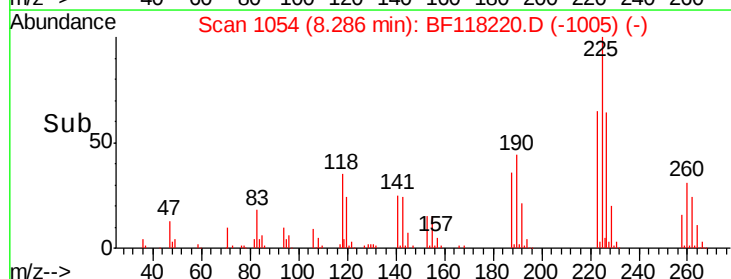
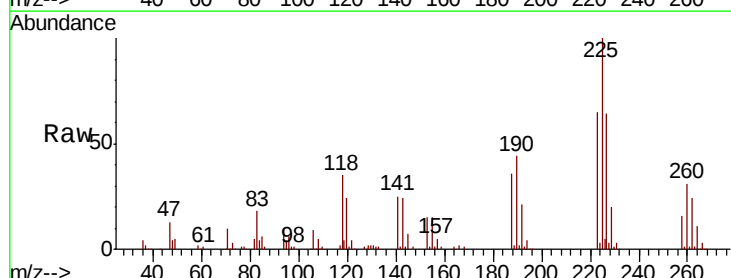
Manual Integrations
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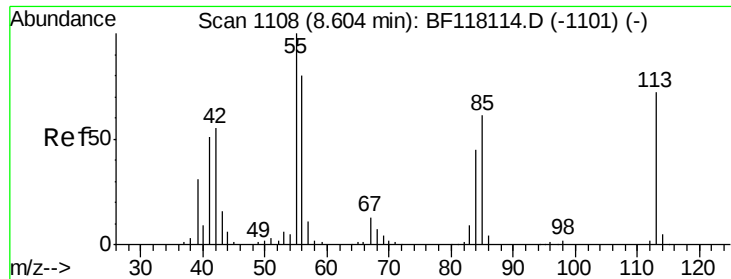
mohammad
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#34
Hexachlorobutadiene
Concen: 35.071 ng
RT: 8.29 min Scan# 1054
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
225	100		126655		
223	64.7	49.6	74.4		
227	63.6	51.0	76.6		





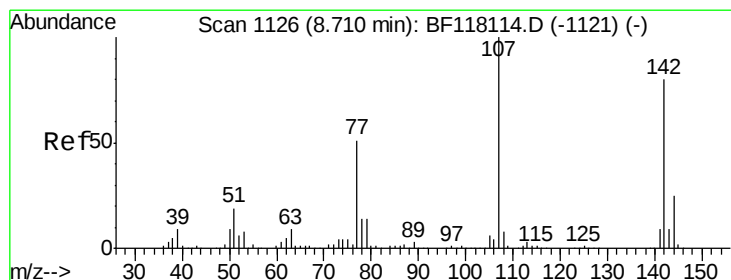
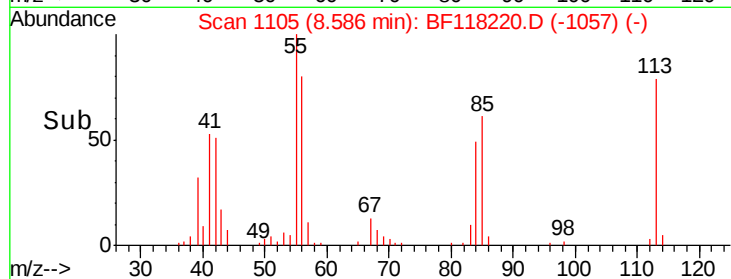
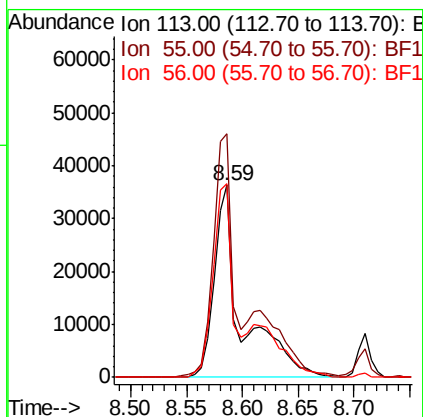
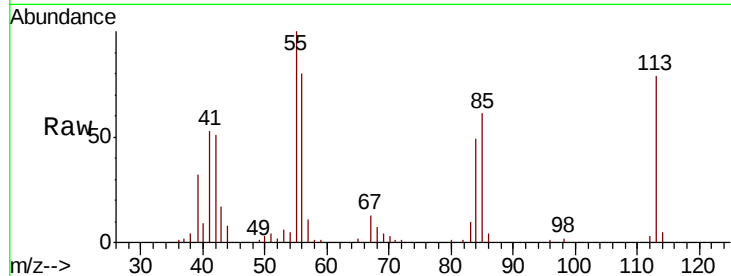
#35
Caprolactam
Concen: 39.418 ng/ml
RT: 8.59 min Scan# 1105
Delta R.T. -0.02 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
113	100		
55	126.7	118.9	158.9
56	100.9	91.4	131.4

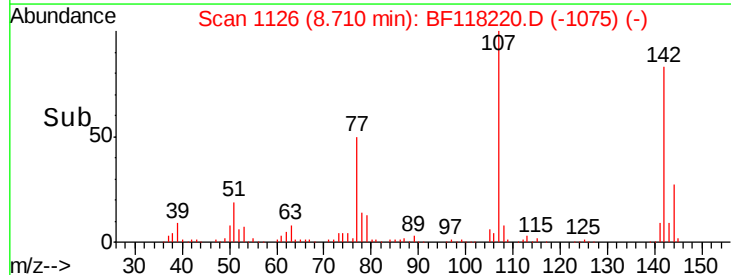
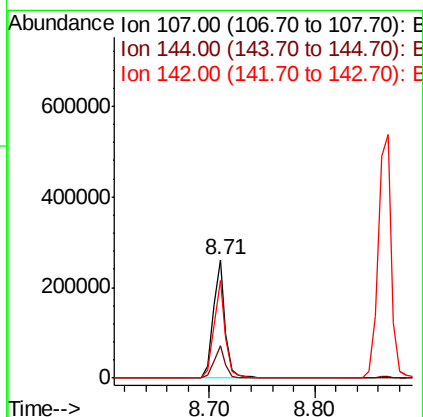
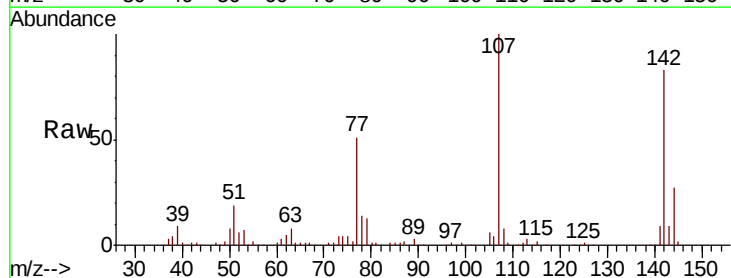
Manual Integrations
APPROVED

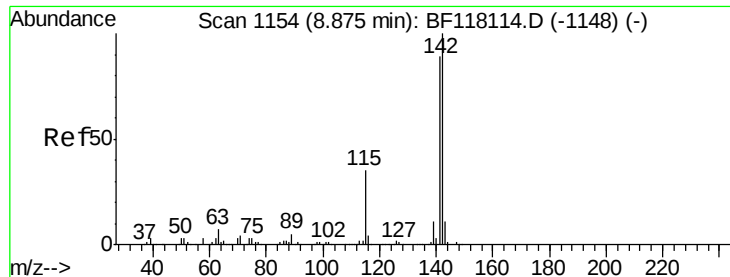
mohammad
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#36
4-Chloro-3-methylphenol
Concen: 38.408 ng/ml
RT: 8.71 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
107	100		
144	27.2	20.3	30.5
142	82.6	63.7	95.5





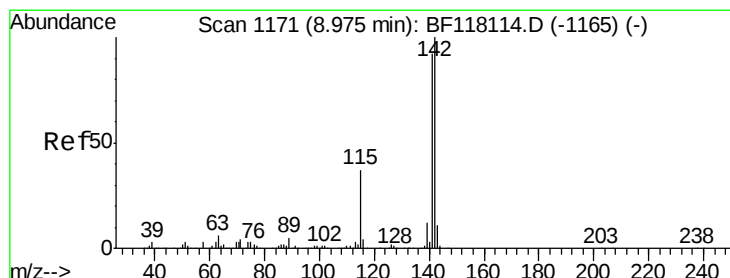
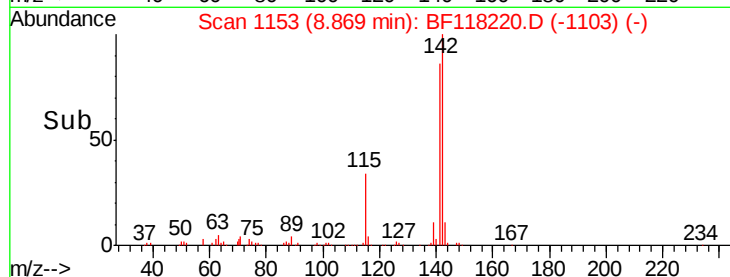
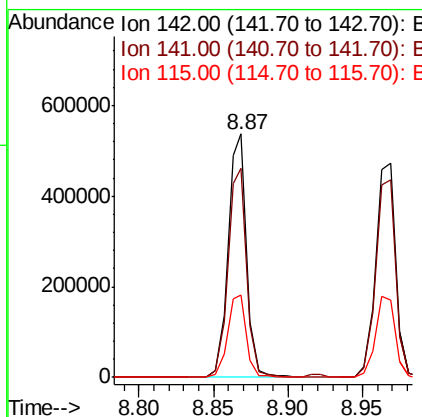
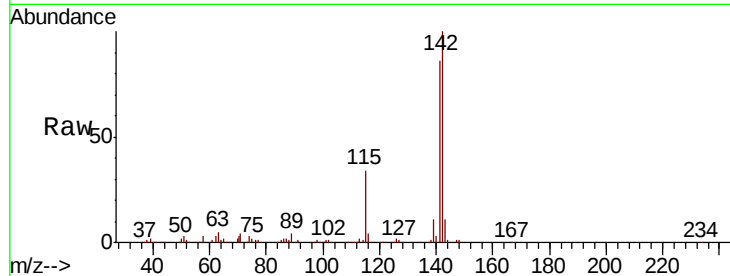
#37
2-Methylnaphthalene
Concen: 39.033 ng
RT: 8.87 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
142	100		
141	86.1	71.4	107.0
115	33.6	28.2	42.4

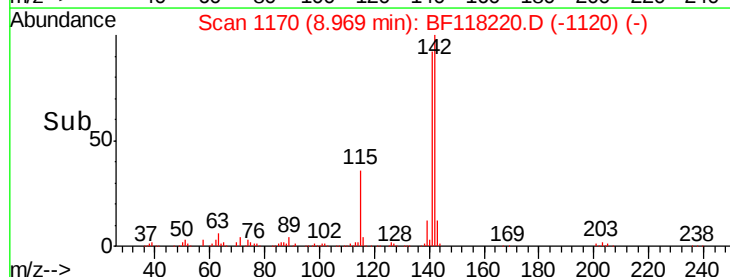
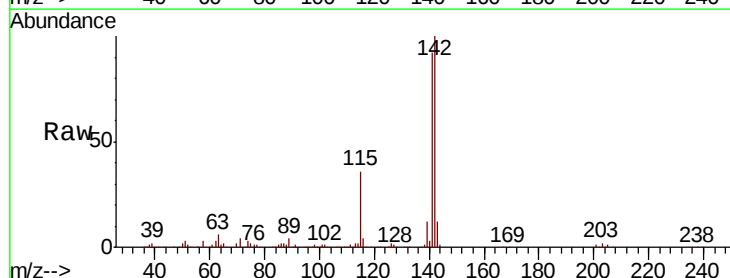
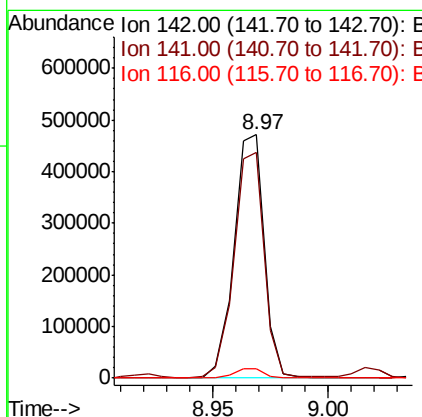
Manual Integrations
APPROVED

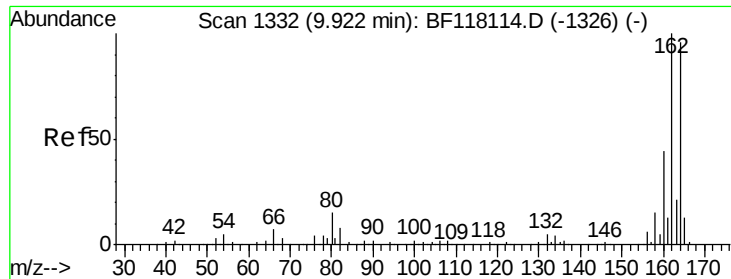
mohammad
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#38
1-Methylnaphthalene
Concen: 37.866 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
142	100		
141	92.4	74.0	111.0
116	3.6	3.2	4.8





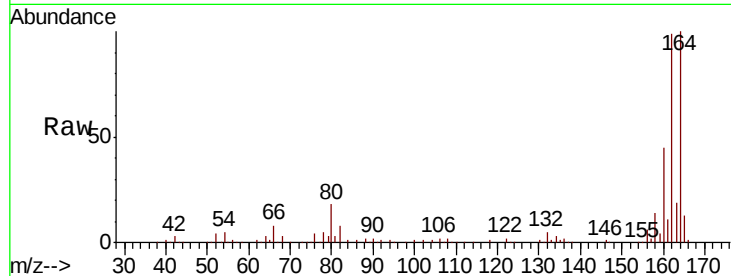
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.91 min Scan# 1330
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
164	100		
162	99.4	83.4	125.0
160	45.0	36.6	54.8

Manual Integrations
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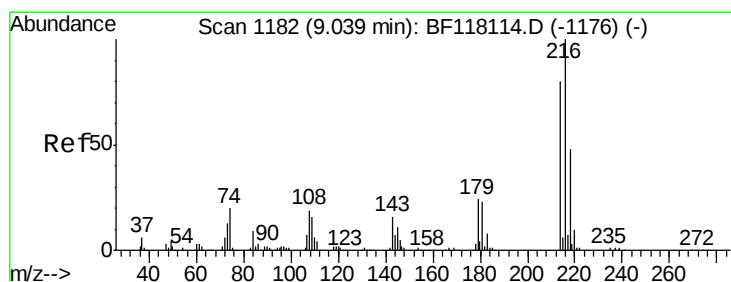
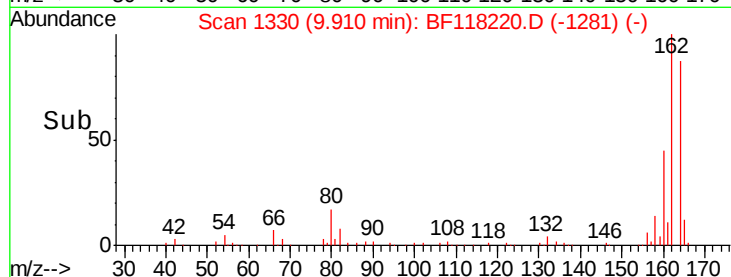
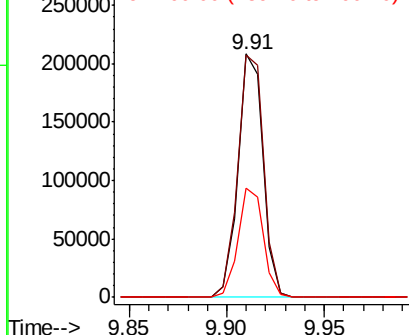


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40
1,2,4,5-Tetrachlorobenzene
Concen: 36.905 ng
RT: 9.03 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
216	100		
214	79.1	63.4	95.2
179	23.4	18.6	27.8
108	19.6	15.4	23.0

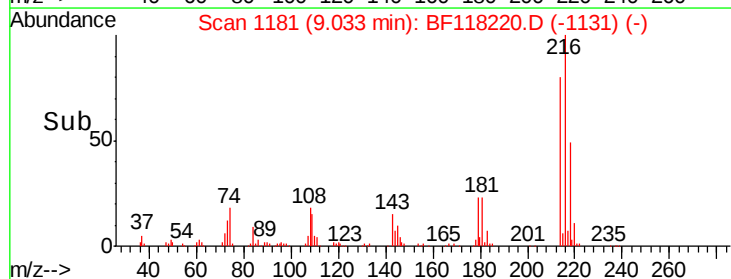
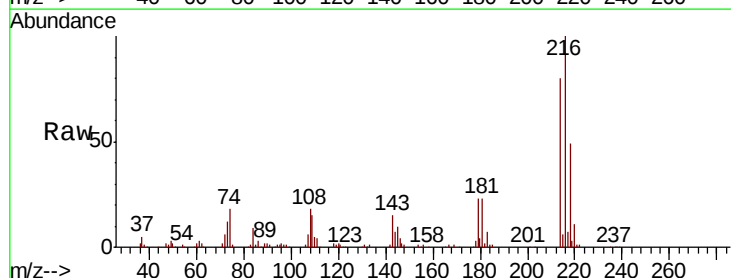
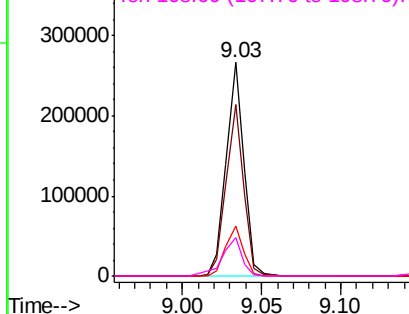
Abundance

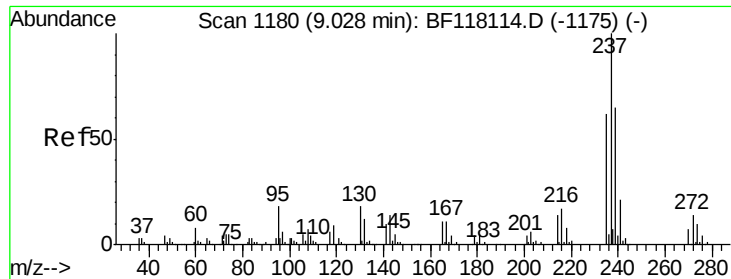
Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#41

Hexachlorocyclopentadiene

Concen: 49.324 ng

RT: 9.02 min Scan# 1178

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

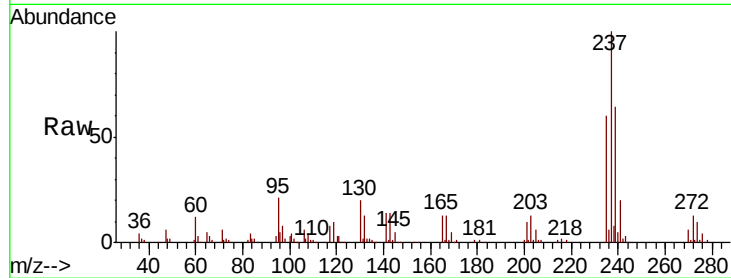
ClientSampleId :

42-SPRUCEMS

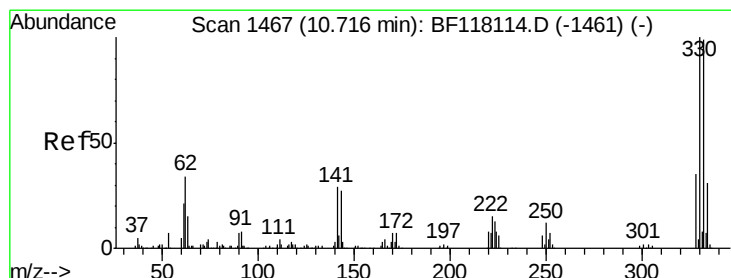
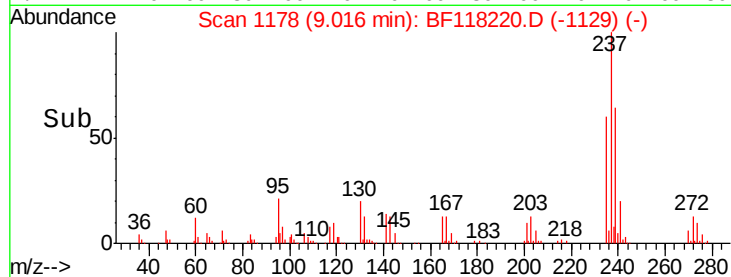
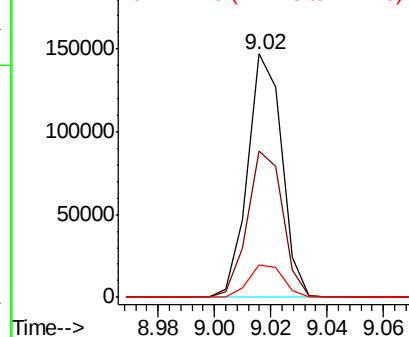
Tot Ion:	237	Resp:	123921
Ion Ratio	Lower	Upper	
237	100		
235	59.9	41.5	81.5
272	13.2	0.0	33.7

Manual Integrations
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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: 95.007 ng

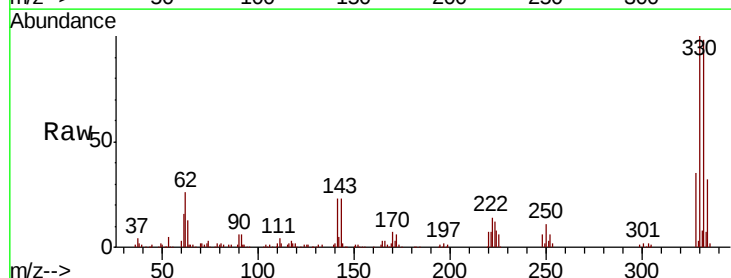
RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

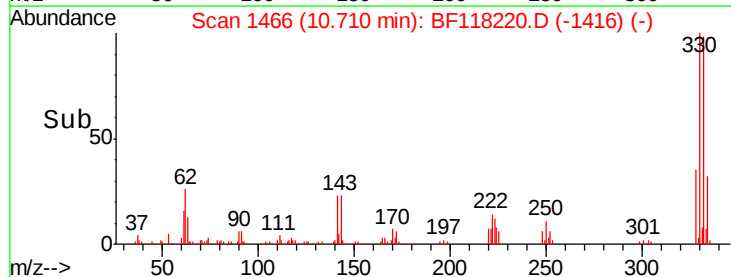
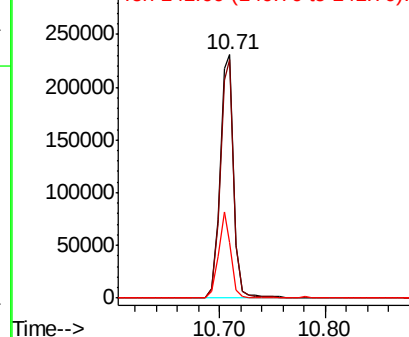
Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Tgt Ion:	330	Resp:	213637
Ion Ratio	Lower	Upper	
330	100		
332	95.6	78.1	117.1
141	32.0	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





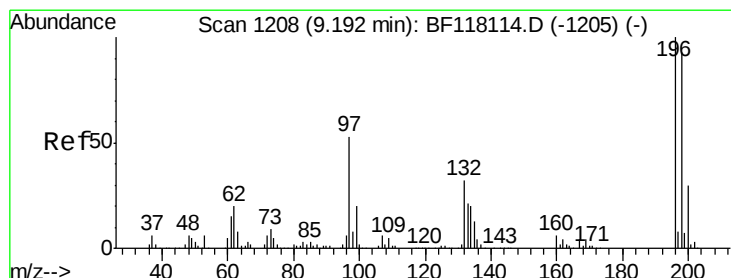
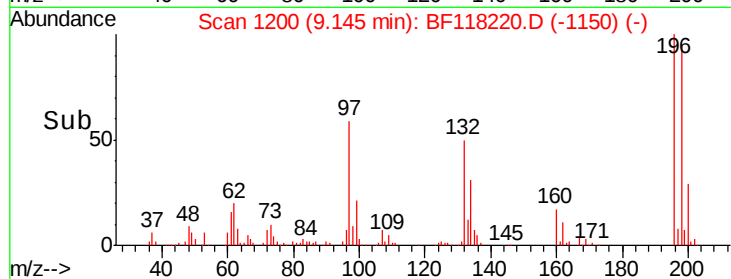
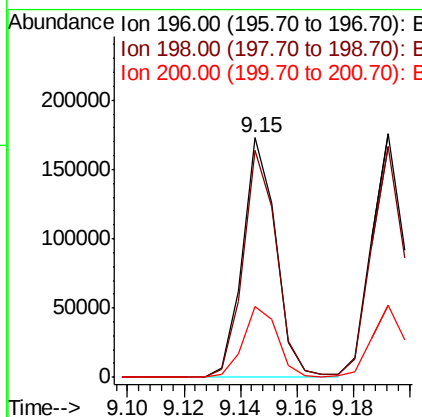
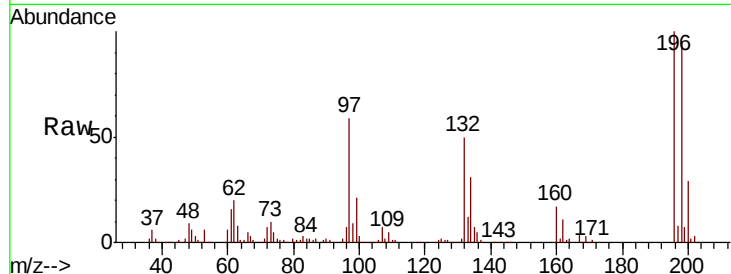
#43
 2,4,6-Trichlorophenol
 Concen: 37.894 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: BF118220.D
 Acq: 17 Dec 2019 2:18

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMS

Tot Ion	Ratio	Resp	Lower	Upper
196	100	141875		
198	94.8	75.0	112.4	
200	29.3	24.5	36.7	

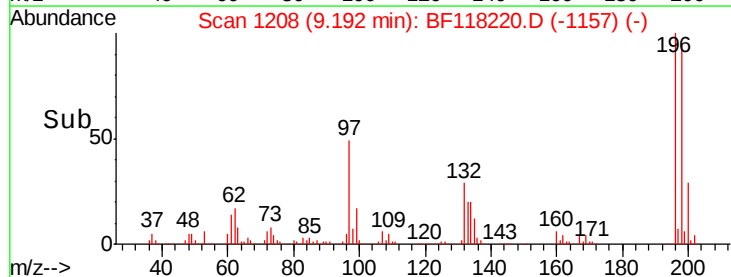
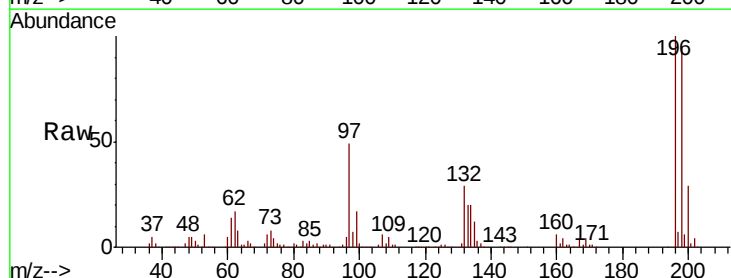
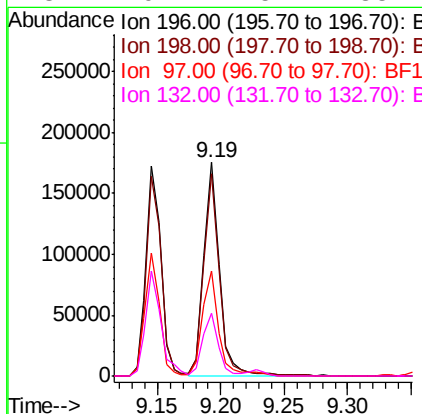
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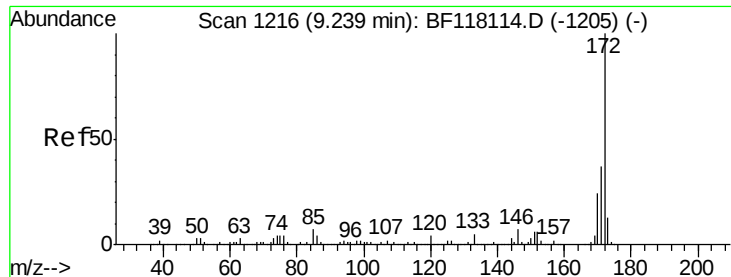
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#44
 2,4,5-Trichlorophenol
 Concen: 39.152 ng
 RT: 9.19 min Scan# 1208
 Delta R.T. -0.00 min
 Lab File: BF118220.D
 Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	151866		
198	94.8	74.2	111.4	
97	49.0	42.5	63.7	
132	29.2	25.4	38.2	





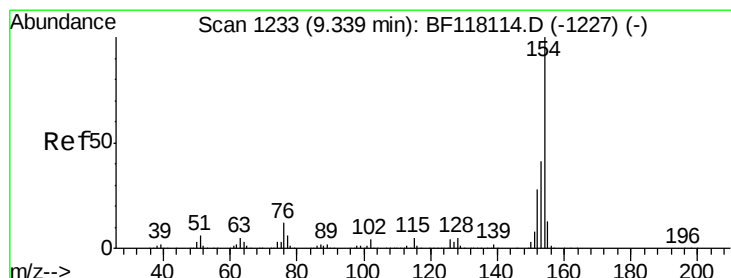
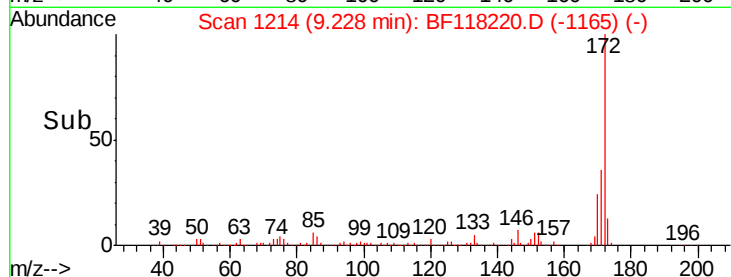
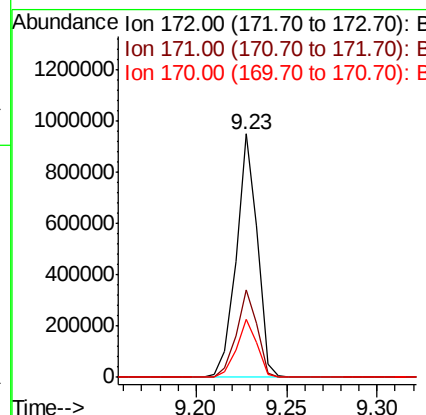
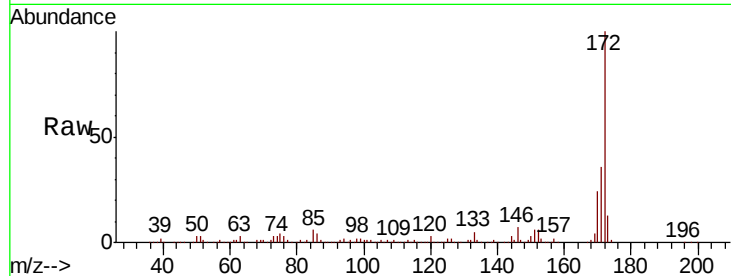
#45
2-Fluorobiphenyl
Concen: 62.641 ng
RT: 9.23 min Scan# 1214
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion:	172	Resp:	761999
Ion Ratio	Lower	Upper	
172	100		
171	36.1	29.2	43.8
170	24.0	19.4	29.2

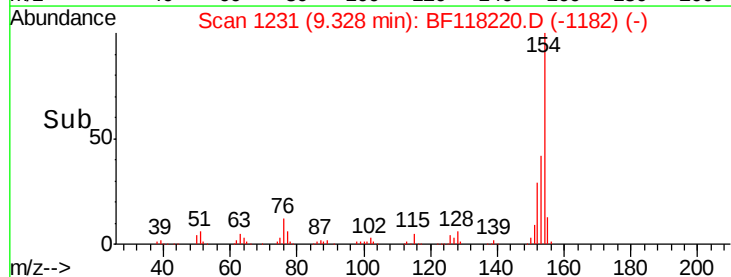
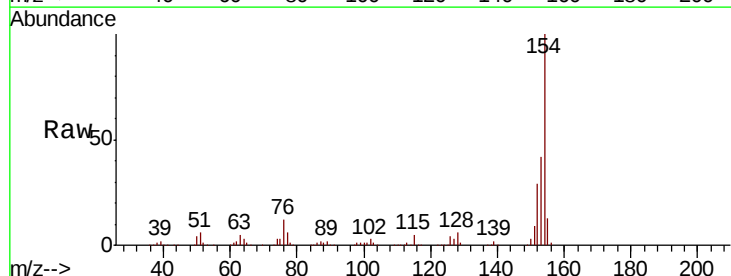
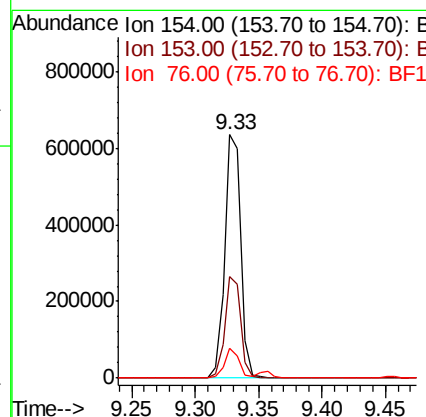
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12/17/2019 3:19:32 PM



#46
1,1'-Biphenyl
Concen: 38.702 ng
RT: 9.33 min Scan# 1231
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion:	154	Resp:	564997
Ion Ratio	Lower	Upper	
154	100		
153	41.6	20.7	60.7
76	12.2	0.0	31.9





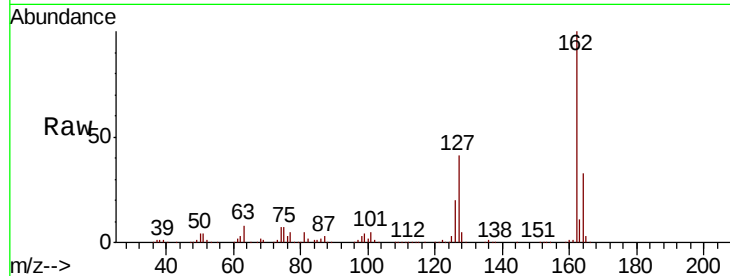
#47
2-Chloronaphthalene
Concen: 37.323 ng
RT: 9.36 min Scan# 1236
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

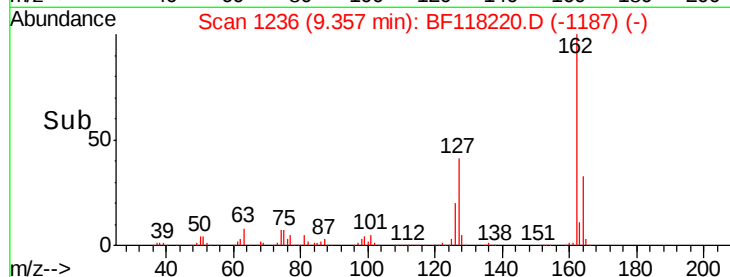
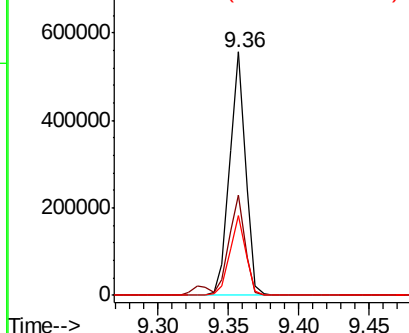
Tot Ion	Ratio	Resp	Lower	Upper
162	100			
127	41.2	32.0	48.0	
164	33.0	26.1	39.1	

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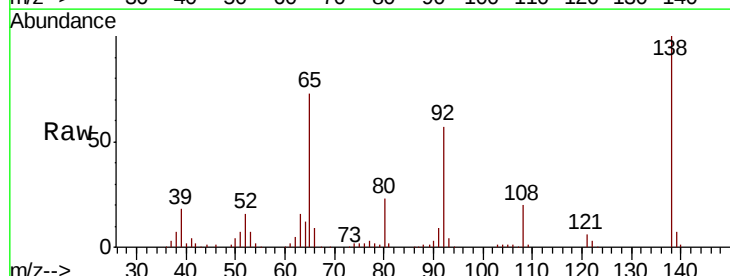
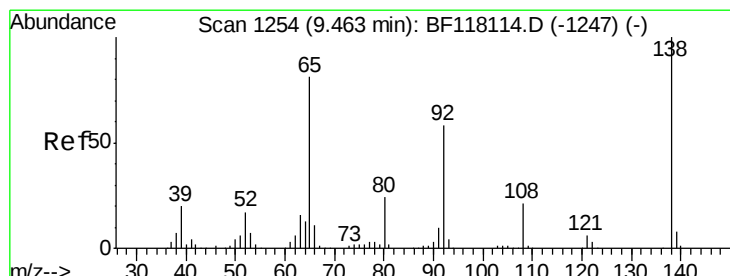
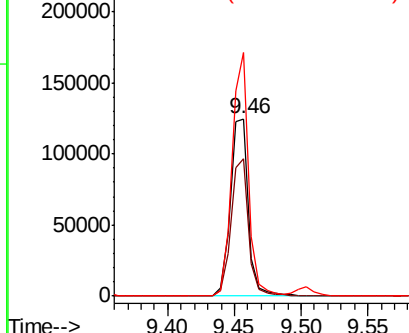
Abundance Ion 162.00 (161.70 to 162.70): E
Ion 127.00 (126.70 to 127.70): E
Ion 164.00 (163.70 to 164.70): E

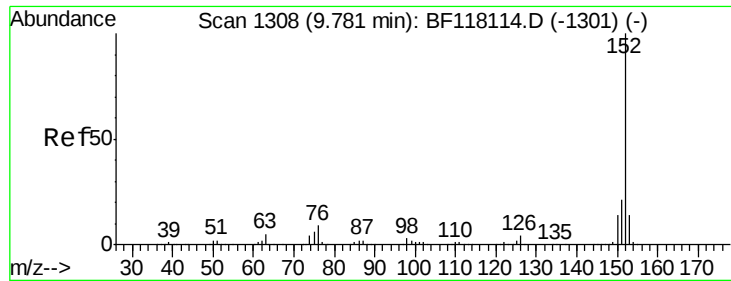


#48
2-Nitroaniline
Concen: 35.770 ng
RT: 9.46 min Scan# 1253
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
65	100			
92	77.6	57.8	86.6	
138	137.2	98.8	148.2	

Abundance Ion 65.00 (64.70 to 65.70): BF1
Ion 92.00 (91.70 to 92.70): BF1
Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 40.986 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

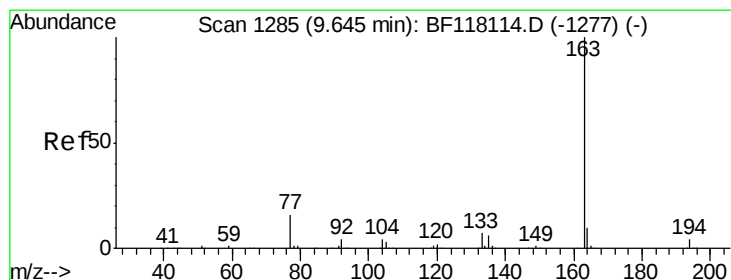
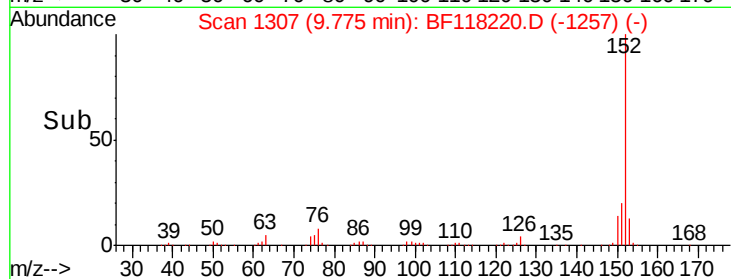
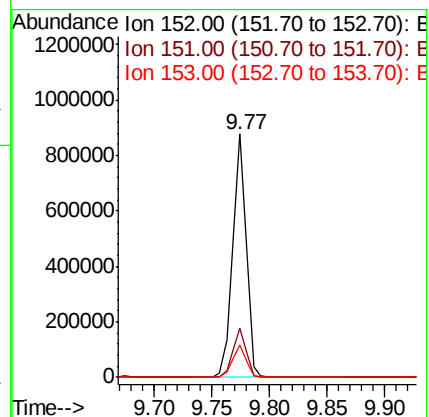
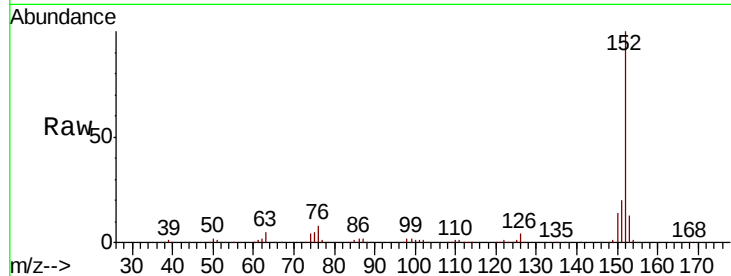
ClientSampleId :

42-SPRUCMS

Tot Ion:	152	Resp:	709901
Ion Ratio	Lower	Upper	
152	100		
151	20.0	16.4	24.6
153	13.1	10.8	16.2

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12/17/2019 3:19:32 PM



#50

Dimethylphthalate

Concen: 39.564 ng

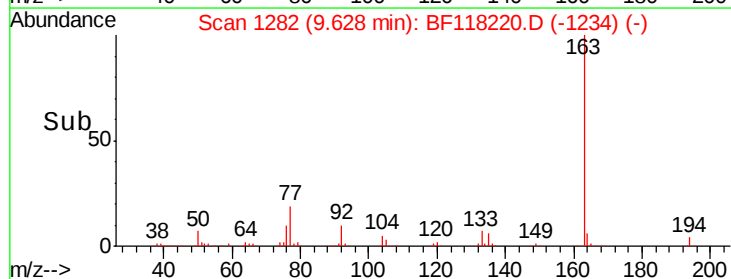
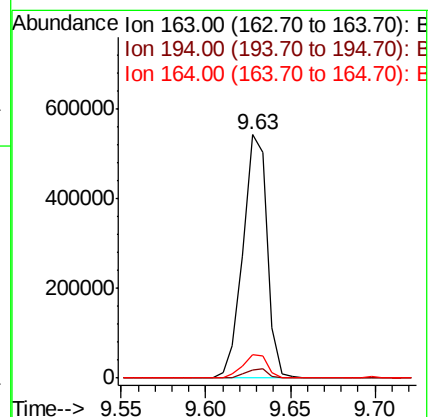
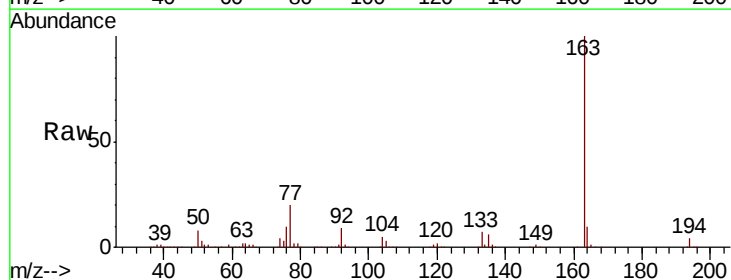
RT: 9.63 min Scan# 1282

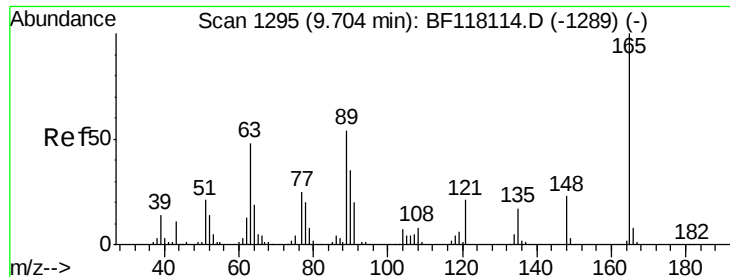
Delta R.T. -0.02 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Tgt Ion:	163	Resp:	540932
Ion Ratio	Lower	Upper	
163	100		
194	3.6	3.1	4.7
164	9.7	7.7	11.5





#51

2,6-Dinitrotoluene

Concen: 39.672 ng

RT: 9.70 min Scan# 1294

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

ClientSampleId :

42-SPRUCEMS

Tot Ion:165 Resp: 117945

Ion Ratio Lower Upper

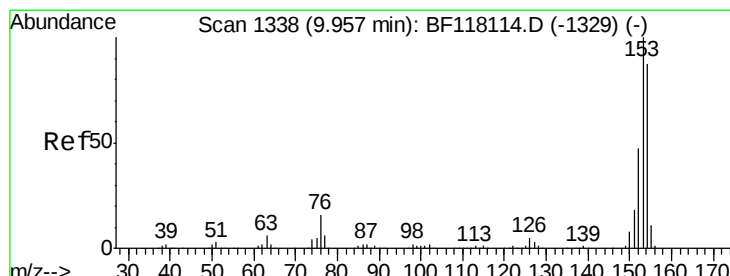
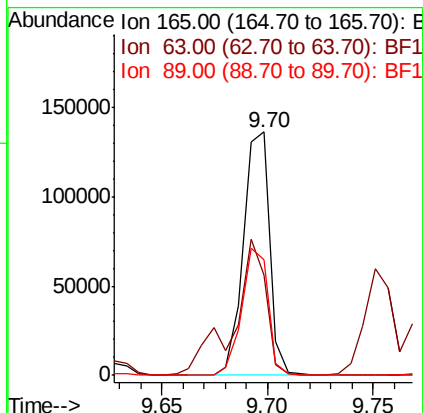
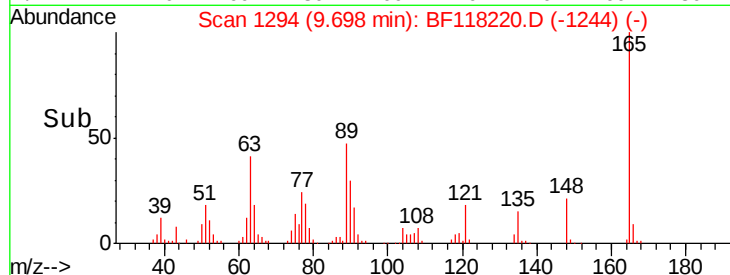
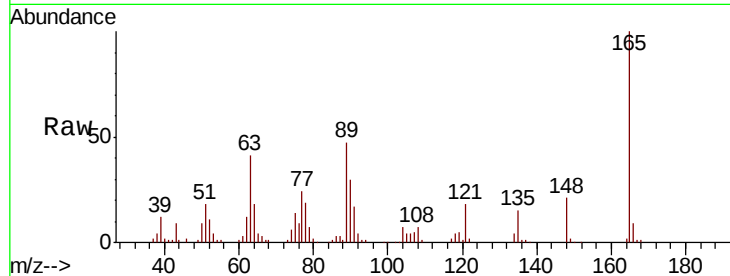
165 100

63 41.2 41.4 62.0#

89 47.4 42.9 64.3

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12/17/2019 3:19:32 PM



#52

Acenaphthene

Concen: 38.168 ng

RT: 9.95 min Scan# 1336

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

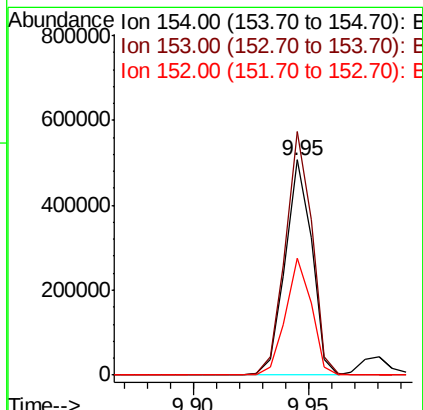
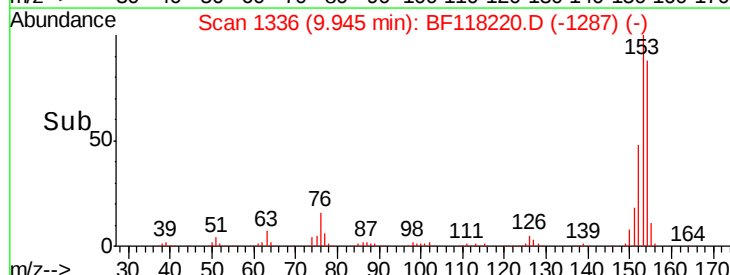
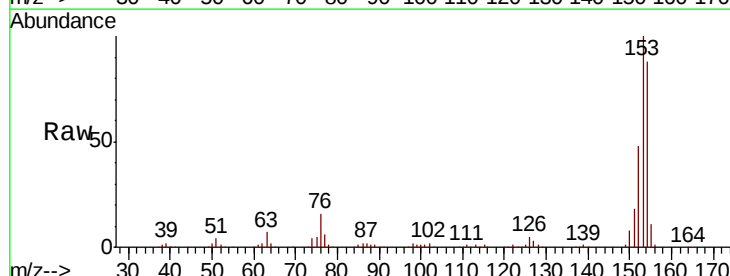
Tgt Ion:154 Resp: 403508

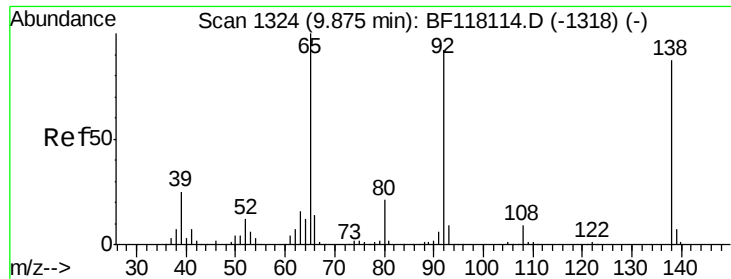
Ion Ratio Lower Upper

154 100

153 113.2 91.8 137.6

152 54.6 43.3 64.9





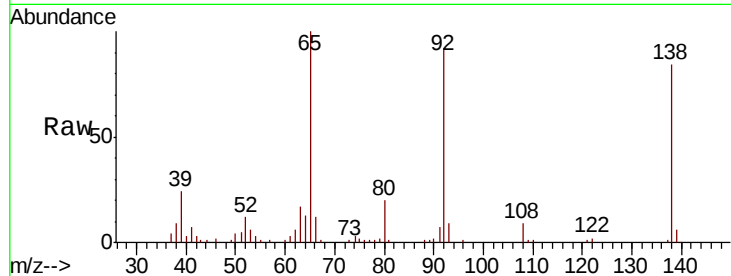
#53
3-Nitroaniline
Concen: 14.287 ng
RT: 9.86 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Resp	Lower	Upper
138	100	49985		
108	10.8		8.2	12.4
92	109.2		84.9	127.3

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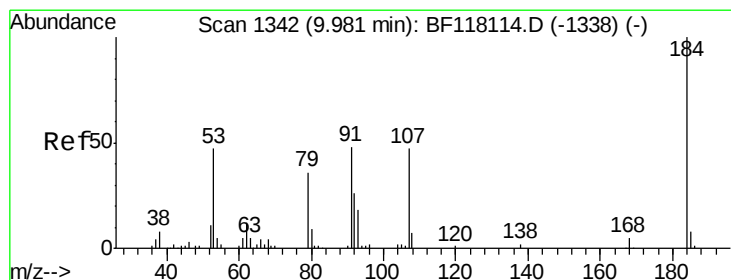
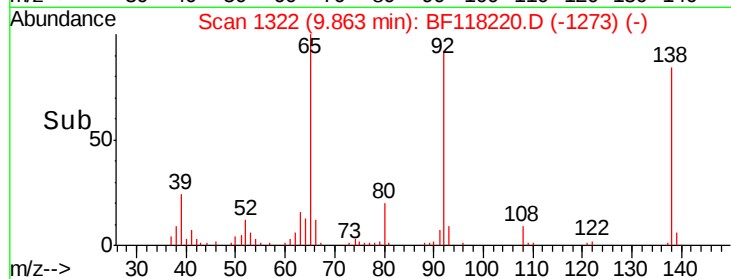
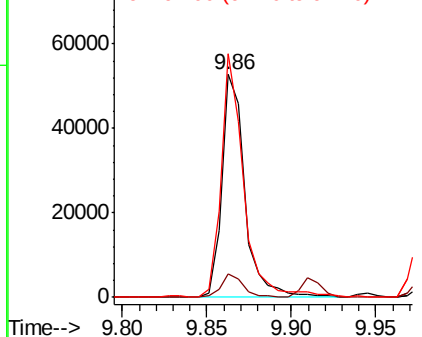


Abundance

Ion 138.00 (137.70 to 138.70): E

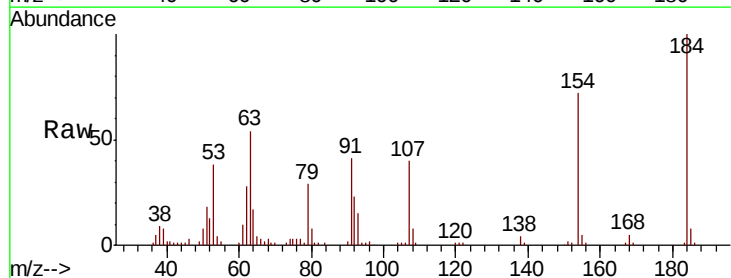
Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54
2,4-Dinitrophenol
Concen: 41.489 ng
RT: 9.98 min Scan# 1342
Delta R.T. -0.00 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
184	100	61366		
63	53.9		53.9	80.9
154	72.1		56.3	84.5

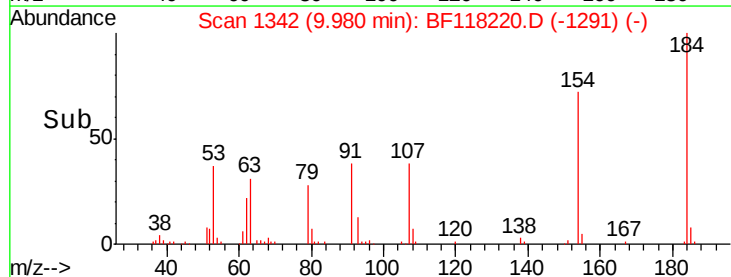
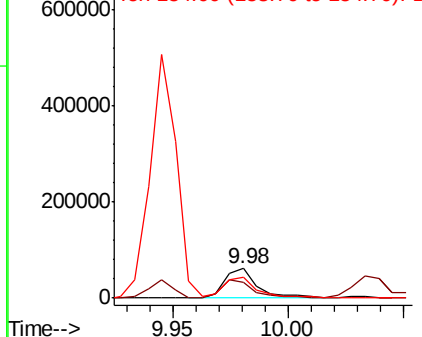


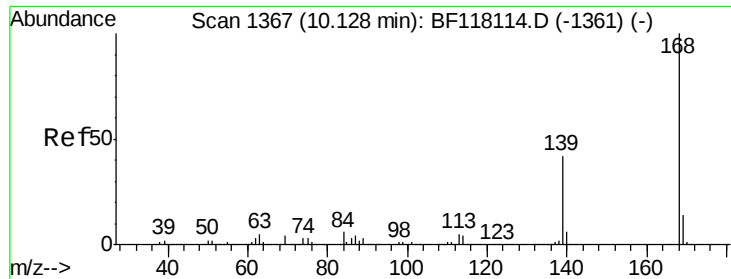
Abundance

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





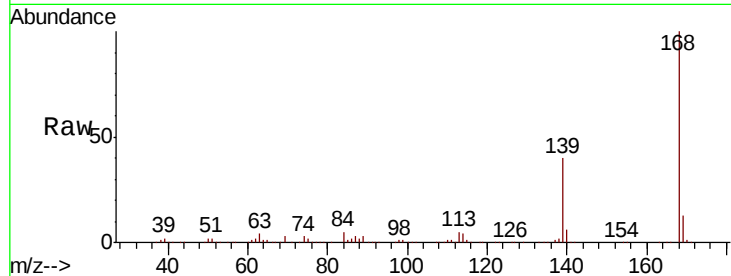
#55
Dibenzenofuran
Concen: 40.031 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMS

Tot Ion	Ratio	Resp	Lower	Upper
168	100	620108		
139	39.8	33.4	50.0	
169	13.0	11.0	16.6	

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12/17/2019 3:19:32 PM

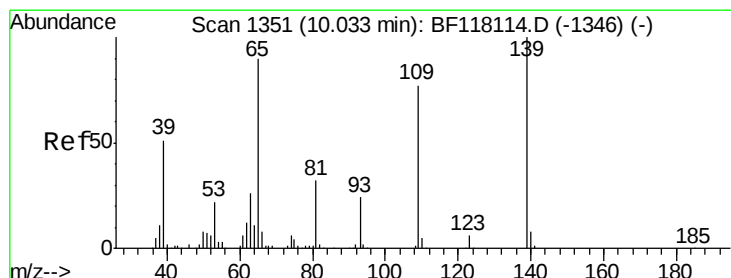
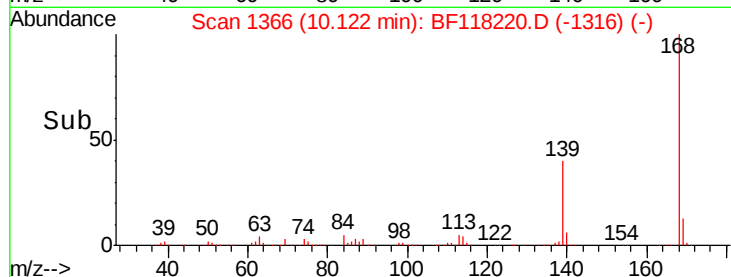
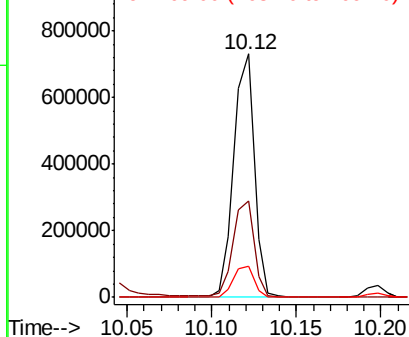


Abundance

Ion 168.00 (167.70 to 168.70): E

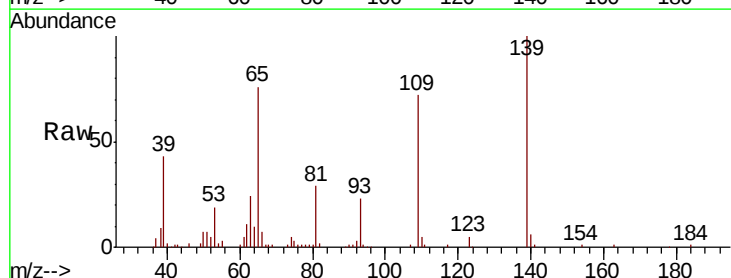
Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56
4-Nitrophenol
Concen: 72.860 ng
RT: 10.04 min Scan# 1352
Delta R.T. 0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	176910		
109	72.4	57.3	97.3	
65	75.9	70.2	110.2	

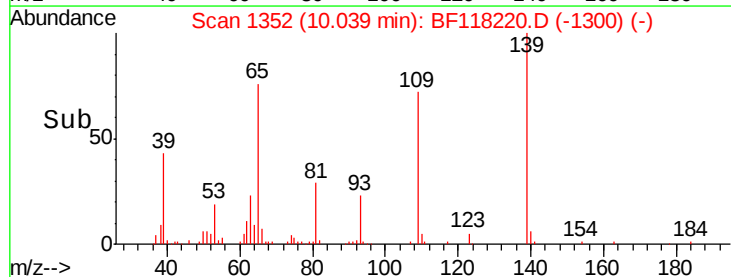
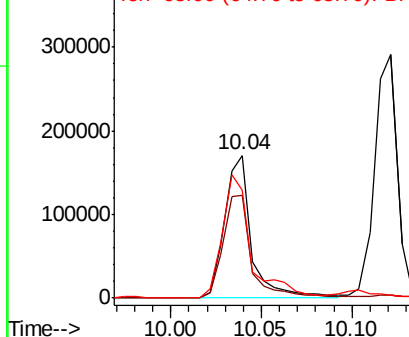


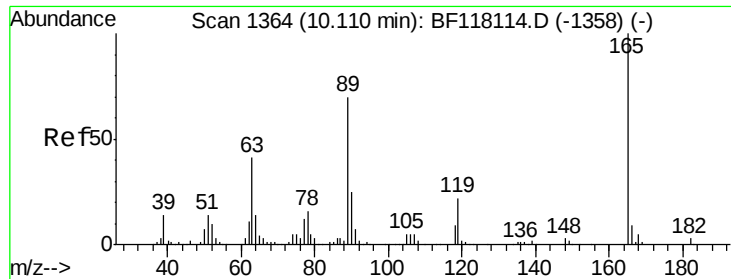
Abundance

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





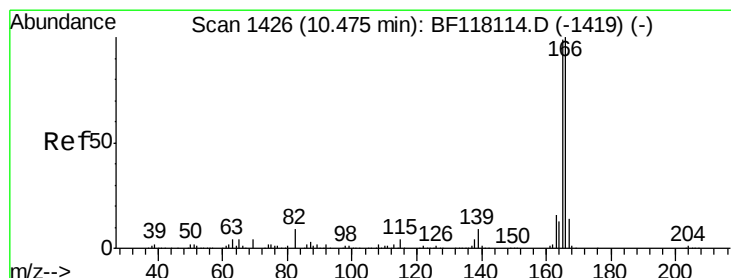
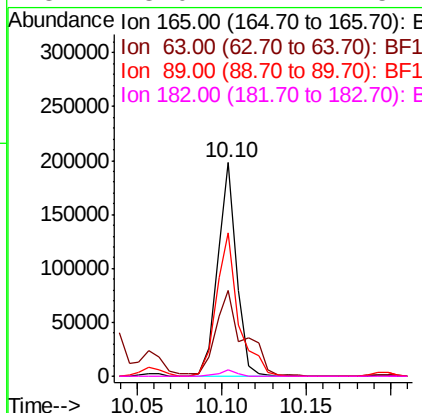
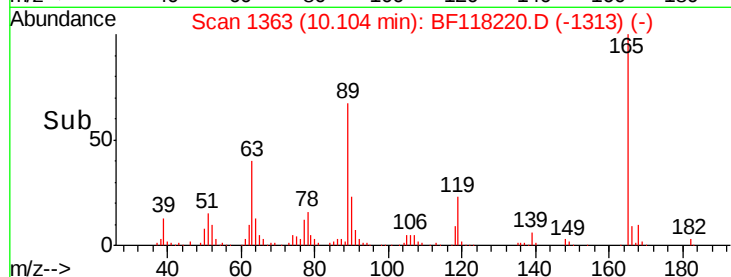
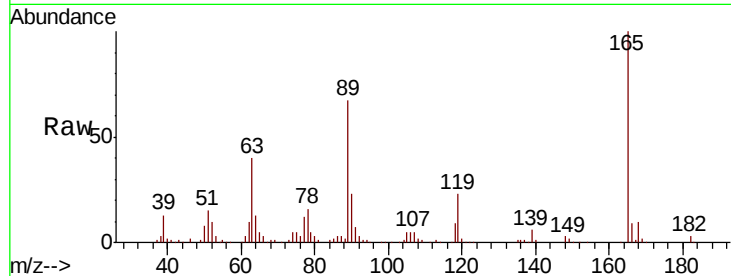
#57
2,4-Dinitrotoluene
Concen: 39.285 ng
RT: 10.10 min Scan# 1363
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMS

Tot Ion	Ratio	Resp	Lower	Upper
165	100	155887		
63	39.9	32.6	49.0	
89	67.3	56.1	84.1	
182	3.0	2.1	3.1	

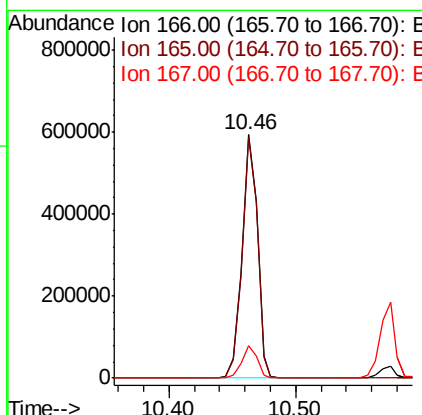
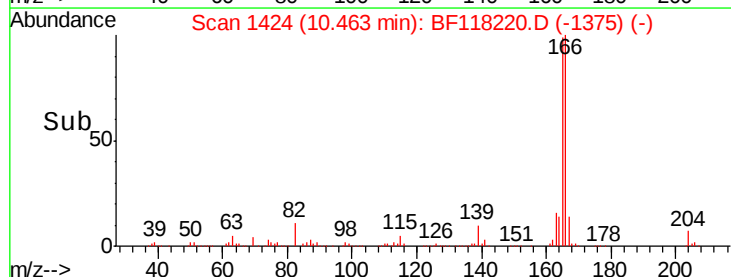
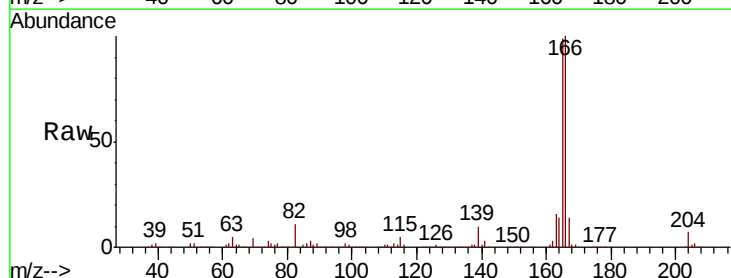
Manual Integrations
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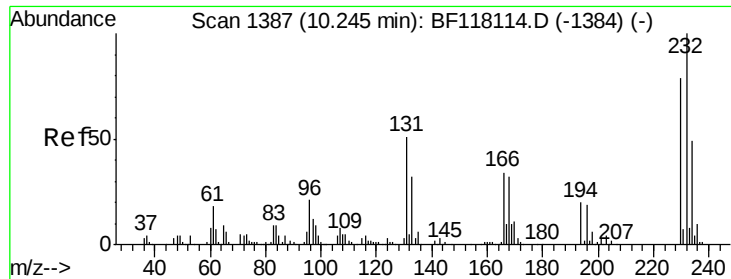
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#58
Fluorene
Concen: 40.058 ng
RT: 10.46 min Scan# 1424
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	493136		
165	99.0	79.0	118.4	
167	13.5	10.9	16.3	





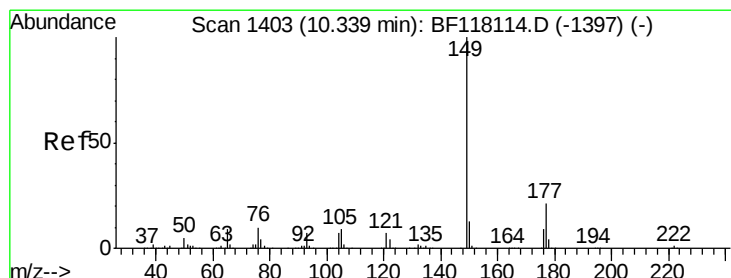
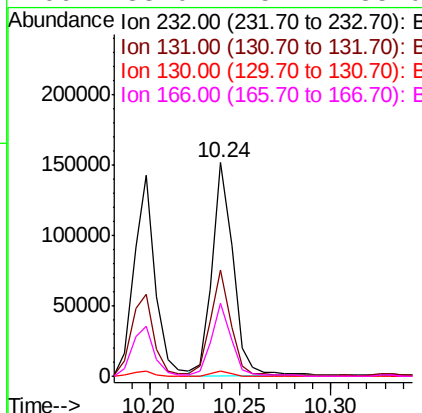
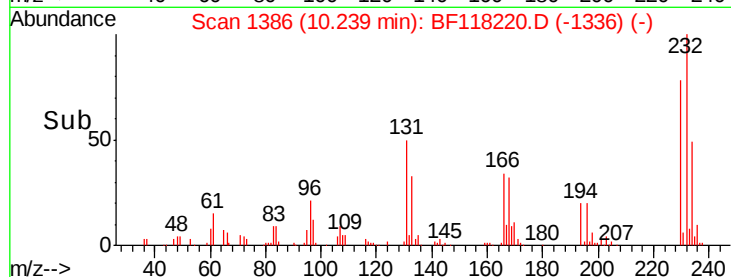
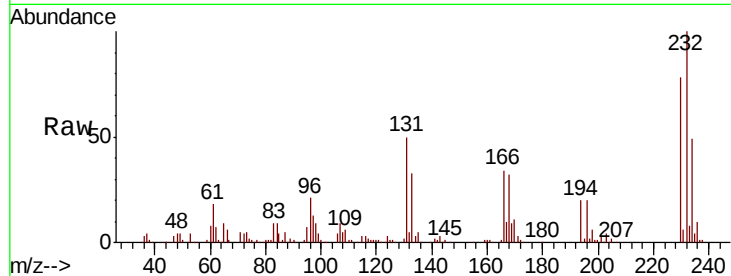
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.277 ng
RT: 10.24 min Scan# 1386
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
232	100		122493		
131	49.3	38.8	58.2		
130	2.2	1.9	2.9		
166	33.0	25.4	38.0		

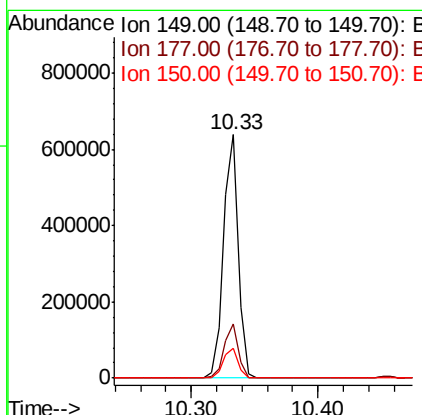
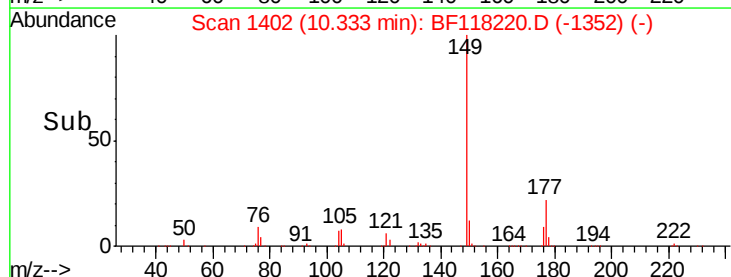
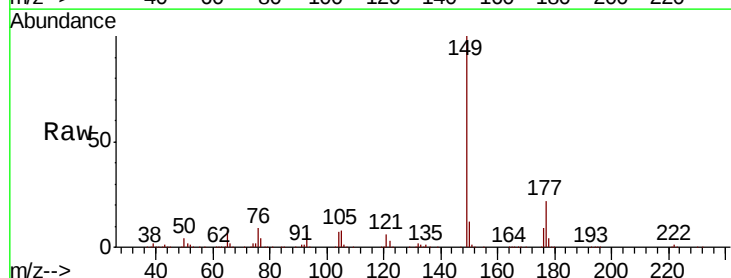
Manual Integrations
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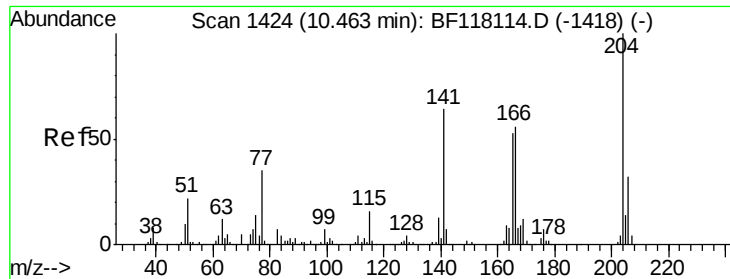
mohammad
12/17/2019 3:19:32 PM



#60
Diethylphthalate
Concen: 38.546 ng
RT: 10.33 min Scan# 1402
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
149	100		519245		
177	22.3	17.0	25.4		
150	12.3	10.1	15.1		





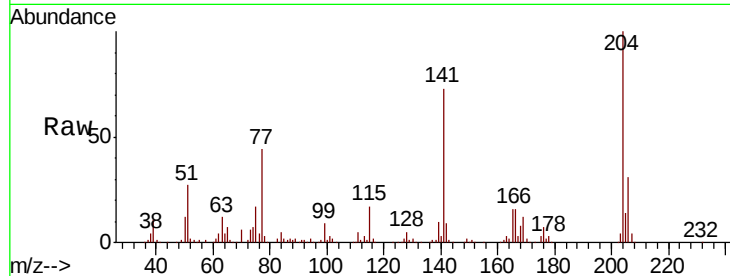
#61
4-Chlorophenyl-phenylether
Concen: 38.387 ng
RT: 10.45 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
204	100		
206	31.4	26.0	39.0
141	72.6	51.0	76.6

Manual Integrations
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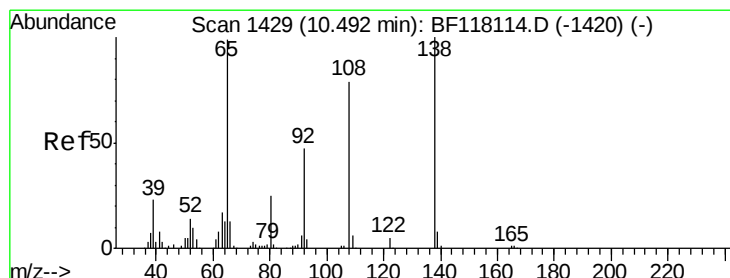
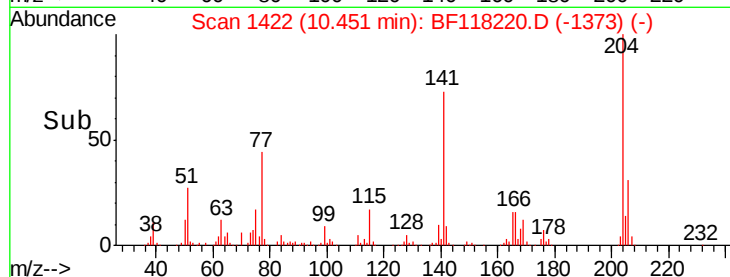
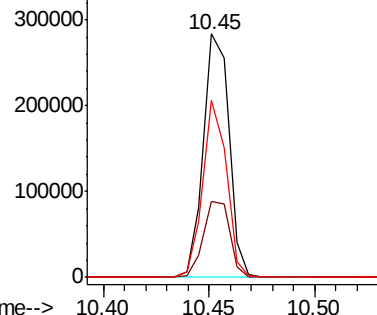


Abundance

Ion 204.00 (203.70 to 204.70): E

Ion 206.00 (205.70 to 206.70): E

Ion 141.00 (140.70 to 141.70): E



#62
4-Nitroaniline
Concen: 31.718 ng
RT: 10.48 min Scan# 1427
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

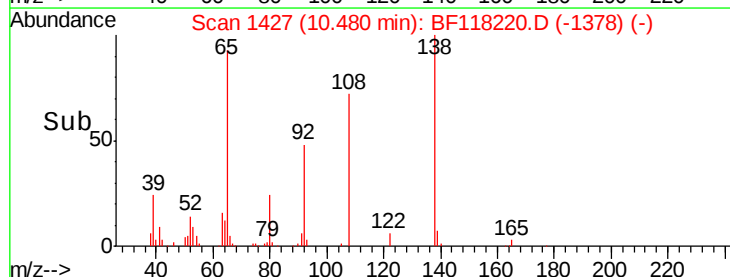
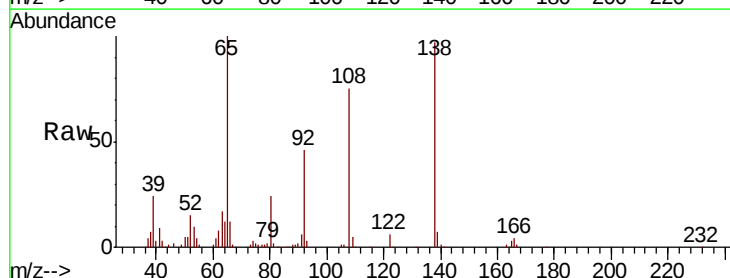
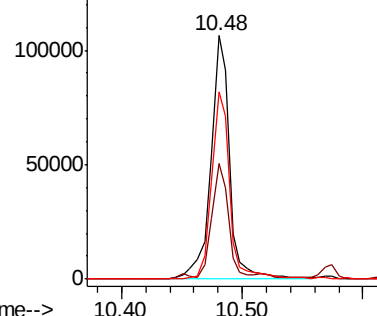
Tgt Ion	Ratio	Lower	Upper
138	100		
92	47.7	27.1	67.1
108	76.7	59.0	99.0

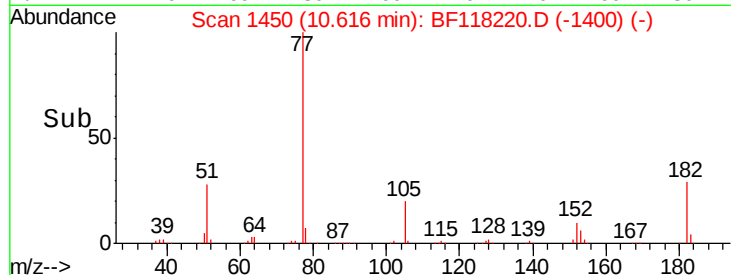
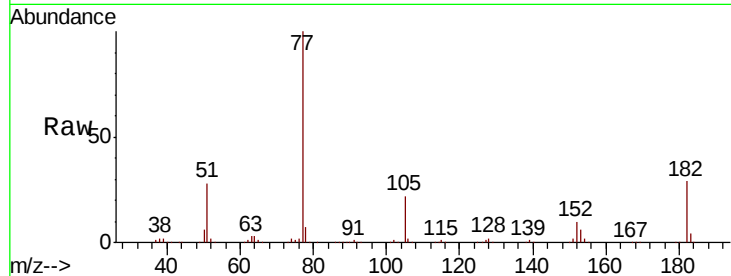
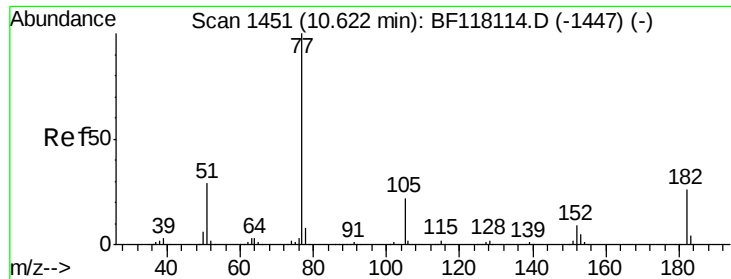
Abundance

Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BF1

Ion 108.00 (107.70 to 108.70): E





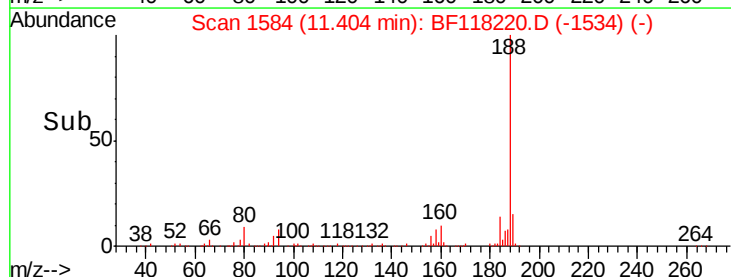
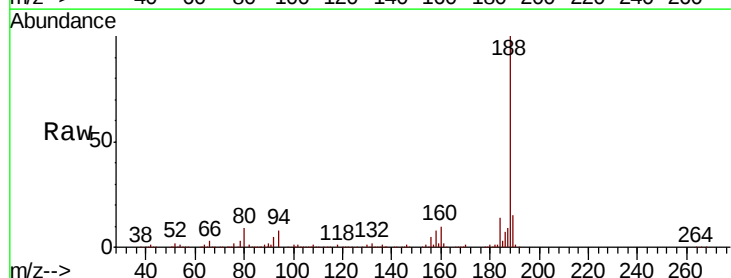
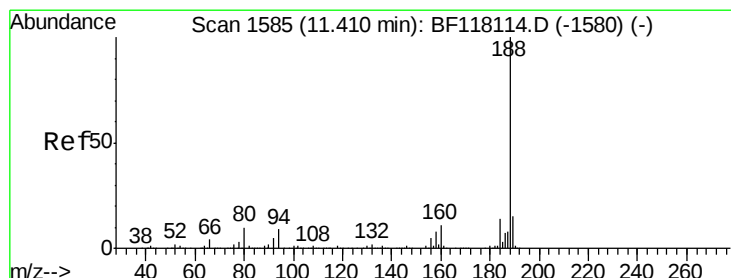
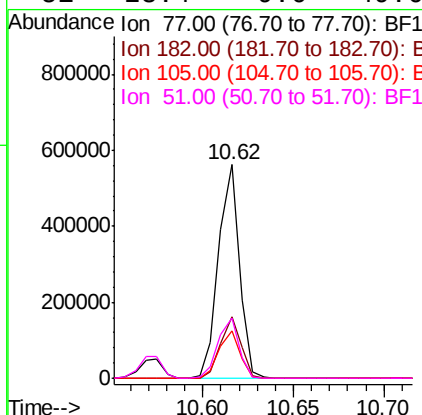
#63
Azobenzene
Concen: 39.283 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tot Ion	Ion	Ratio	Resp	Lower	Upper
77	100		451737		
182	28.5	5.7	45.7		
105	22.4	2.2	42.2		
51	28.4	9.6	49.6		

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMS

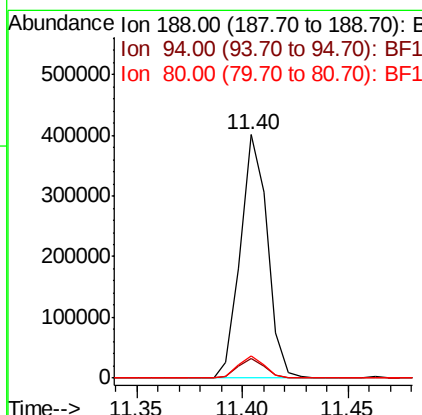
Manual Integrations
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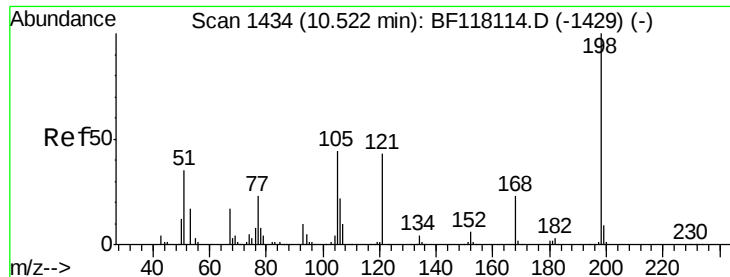
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#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.40 min Scan# 1584
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
188	100		354700		
94	8.3	7.1	10.7		
80	9.2	7.9	11.9		





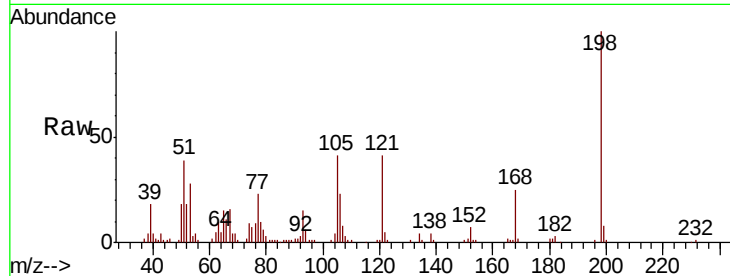
#65
4,6-Dinitro-2-methylphenol
Concen: 27.360 ng
RT: 10.52 min Scan# 1433
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

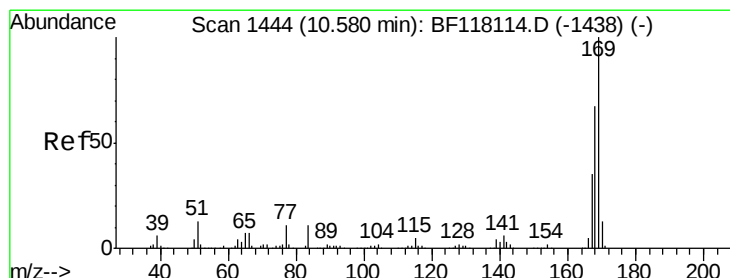
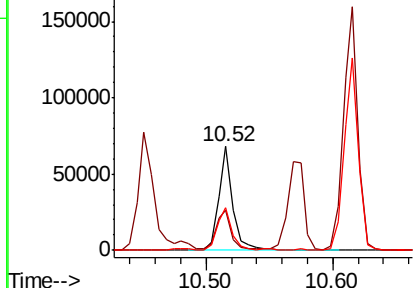
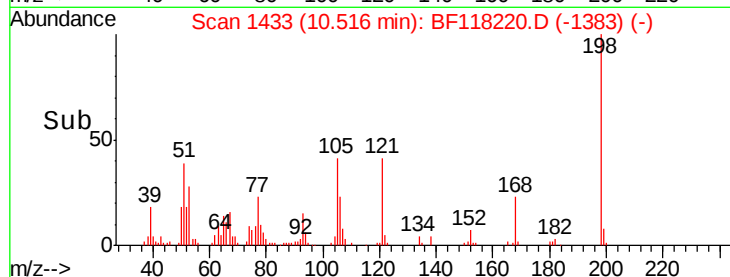
Tot Ion	Ratio	Lower	Upper
198	100		
51	38.6	22.0	62.0
105	40.9	25.6	65.6

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12/17/2019 3:19:32 PM

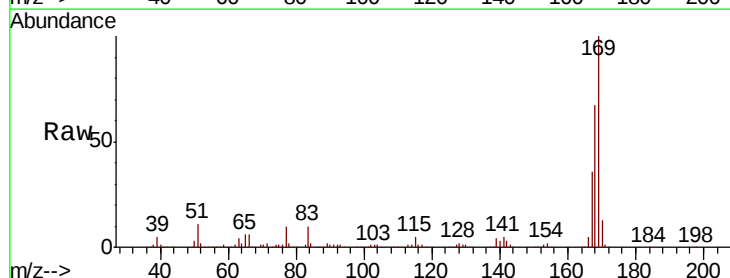


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E

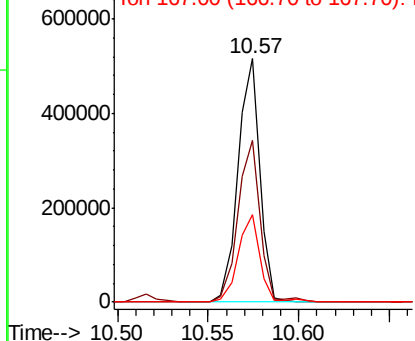
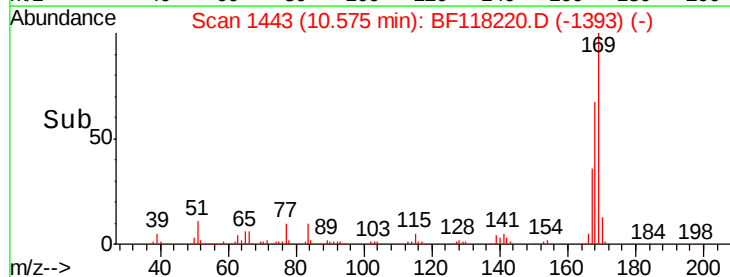


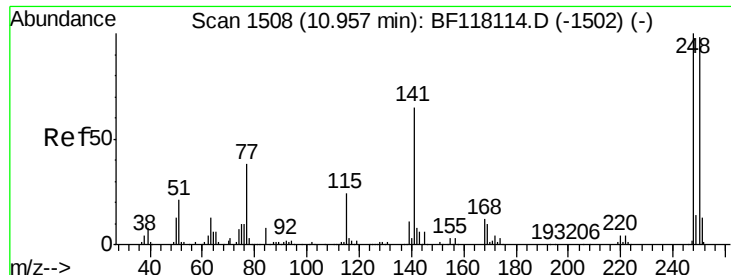
#66
n-Nitrosodiphenylamine
Concen: 39.013 ng
RT: 10.57 min Scan# 1443
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
169	100		
168	66.6	53.4	80.2
167	35.7	28.4	42.6



Abundance Ion 169.00 (168.70 to 169.70): E
Ion 168.00 (167.70 to 168.70): E
Ion 167.00 (166.70 to 167.70): E





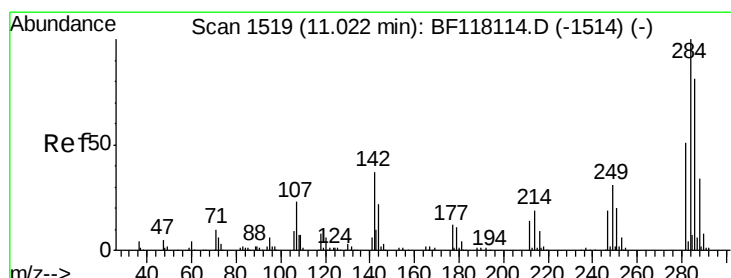
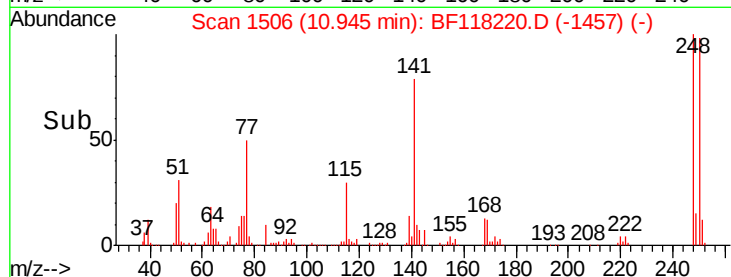
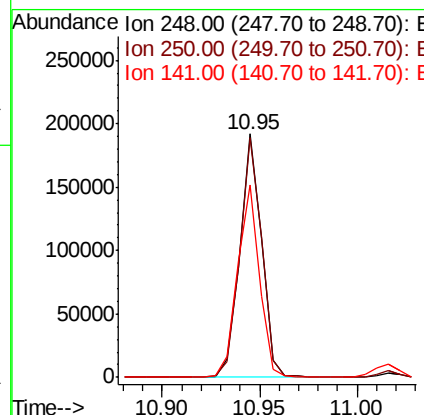
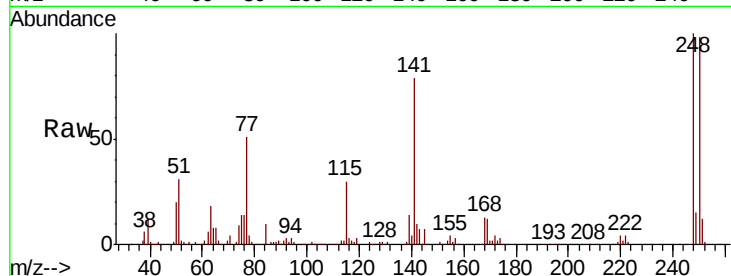
#67
4-Bromophenyl-phenylether
Concen: 36.654 ng
RT: 10.95 min Scan# 1506
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCMS

Tot Ion	Ratio	Lower	Upper
248	100		
250	98.5	78.3	117.5
141	78.8	52.2	78.4

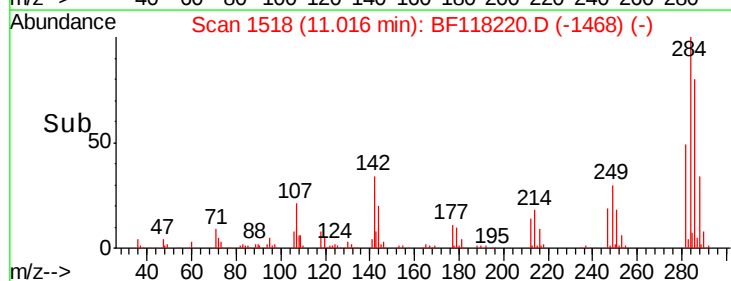
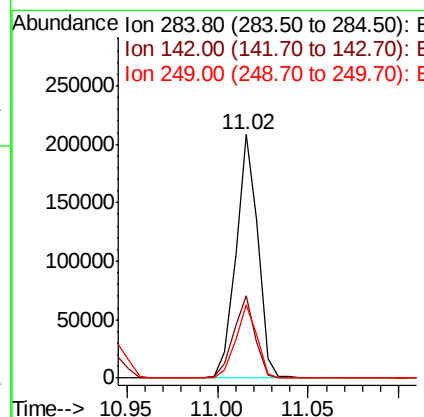
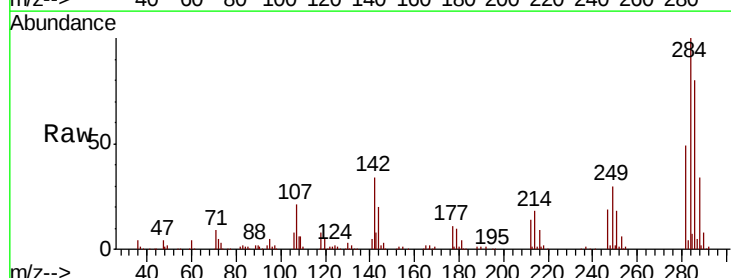
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#68
Hexachlorobenzene
Concen: 36.651 ng
RT: 11.02 min Scan# 1518
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.7	29.7	44.5
249	29.9	24.6	37.0





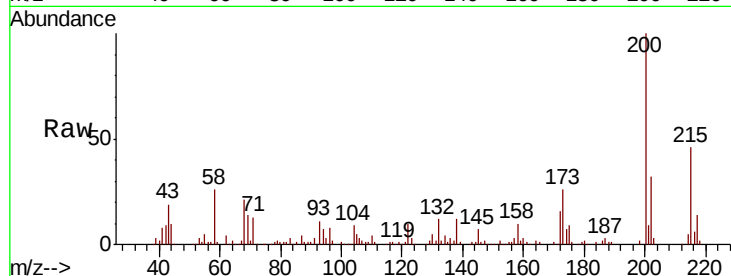
#69
Atrazine
Concen: 43.547 ng
RT: 11.10 min Scan# 1533
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

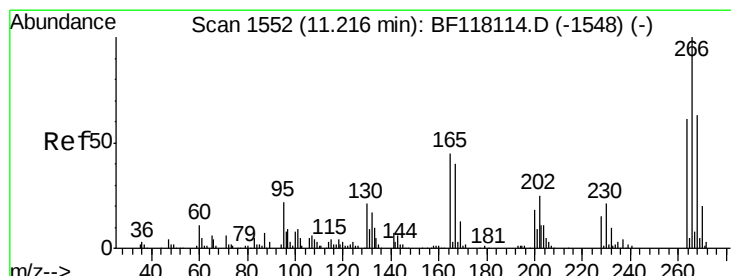
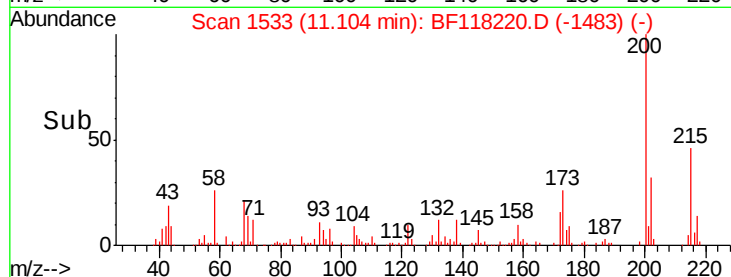
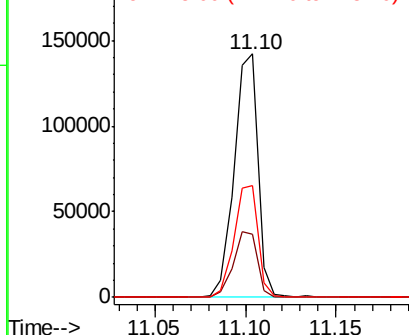
Tot Ion	Ratio	Resp Lower	Upper
200	100		
173	25.9	8.1	48.1
215	46.0	29.0	69.0

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12/17/2019 3:19:32 PM

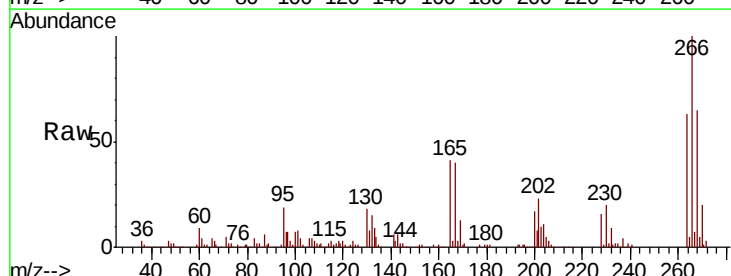


Abundance Ion 200.00 (199.70 to 200.70): E
Ion 173.00 (172.70 to 173.70): E
Ion 215.00 (214.70 to 215.70): E

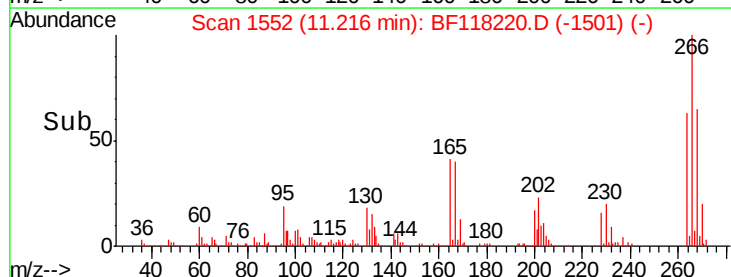
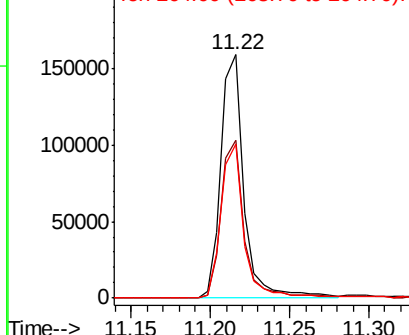


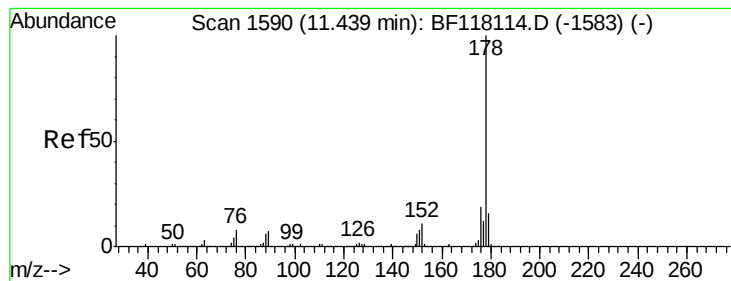
#70
Pentachlorophenol
Concen: 71.878 ng
RT: 11.22 min Scan# 1552
Delta R.T. -0.00 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp Lower	Upper
266	100		
268	64.7	50.7	76.1
264	63.0	48.7	73.1



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





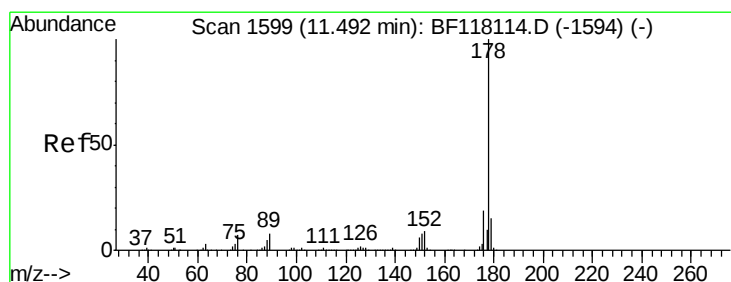
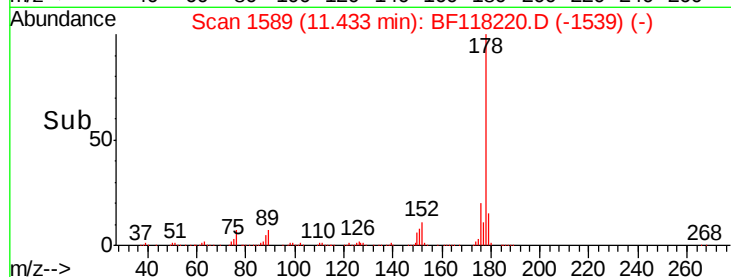
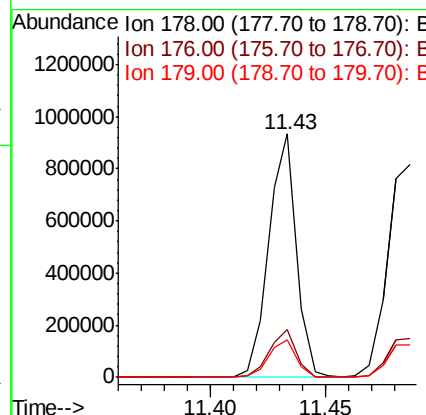
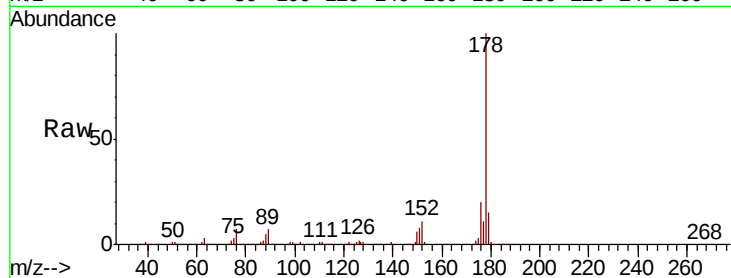
#71
Phenanthrene
Concen: 41.175 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.5	23.3
179	15.4	12.6	18.8

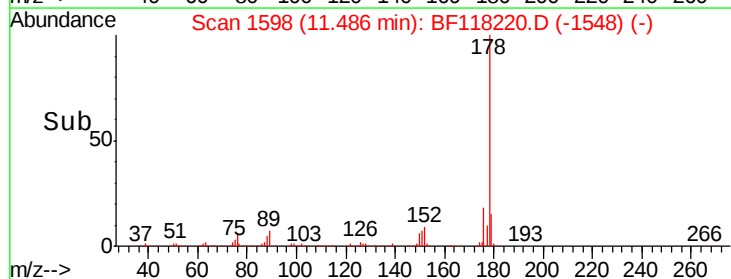
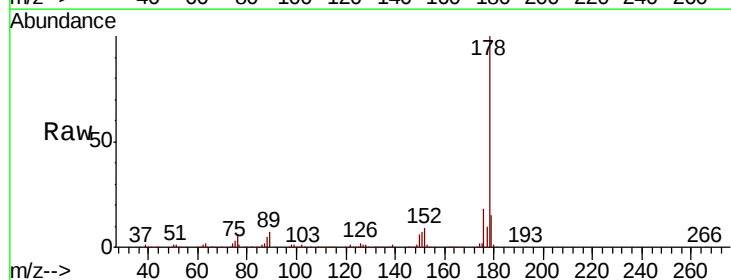
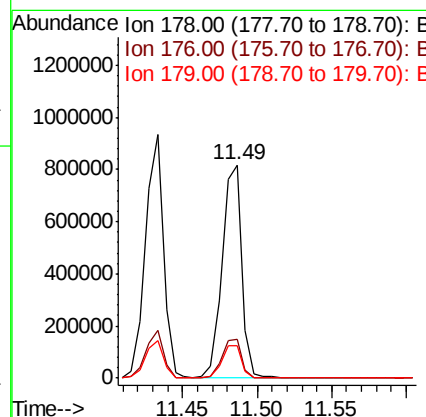
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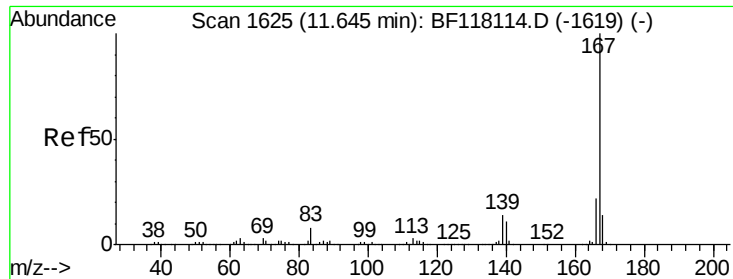
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#72
Anthracene
Concen: 40.280 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.1	15.0	22.6
179	15.4	12.2	18.4





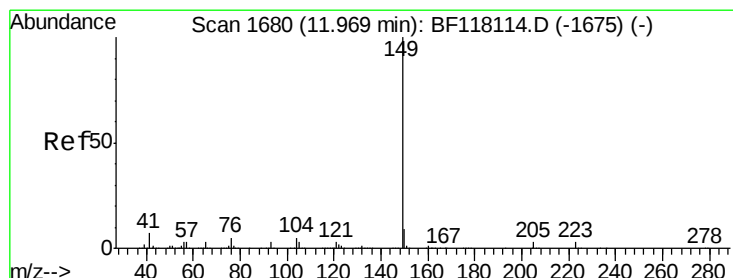
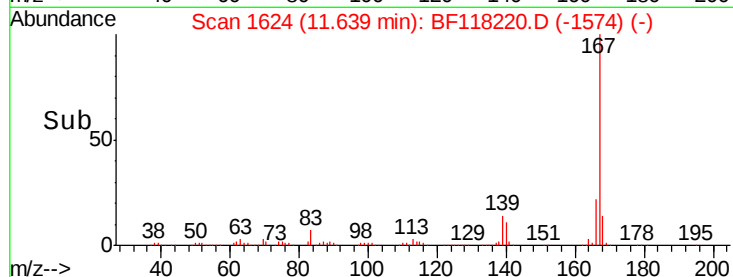
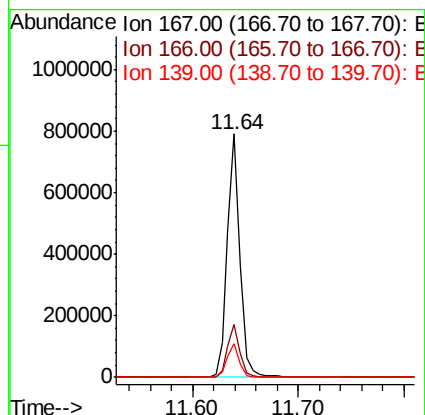
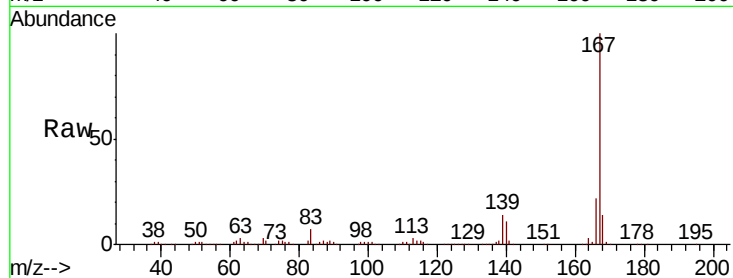
#73
 Carbazole
 Concen: 39.291 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BF118220.D
 Acq: 17 Dec 2019 2:18

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.4	26.2
139	13.8	11.4	17.0

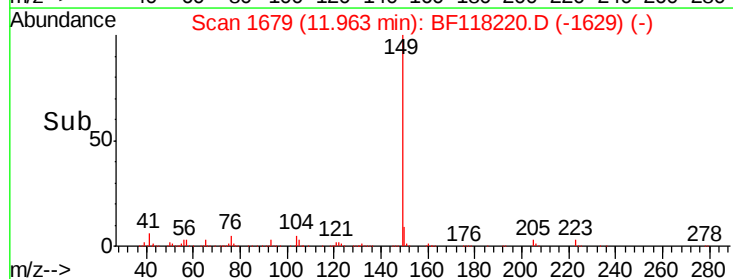
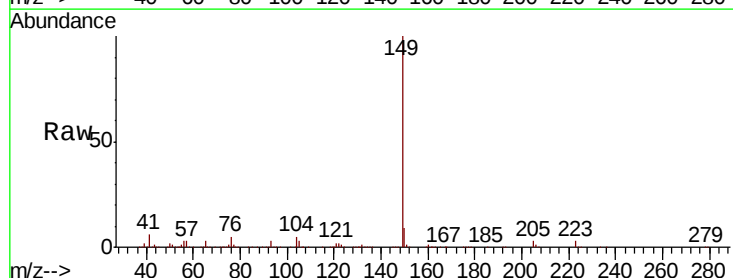
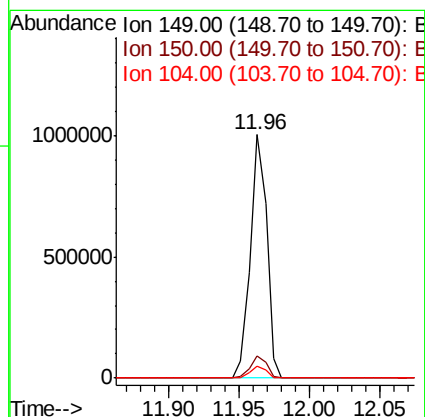
Manual Integrations
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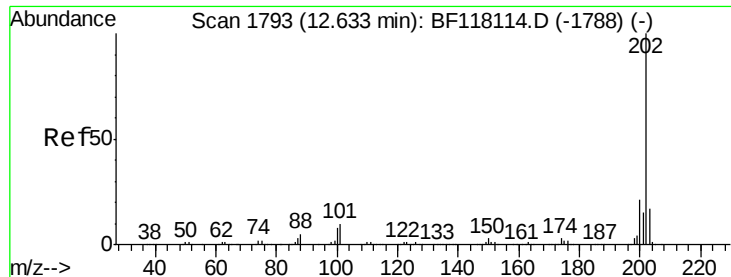
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#74
 Di-n-butylphthalate
 Concen: 38.904 ng
 RT: 11.96 min Scan# 1679
 Delta R.T. -0.01 min
 Lab File: BF118220.D
 Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	5.0	4.3	6.5





#75

Fluoranthene

Concen: 42.480 ng

RT: 12.63 min Scan# 1792

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

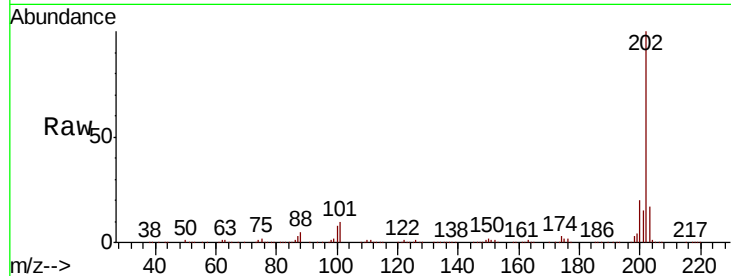
ClientSampleId :

42-SPRUCMS

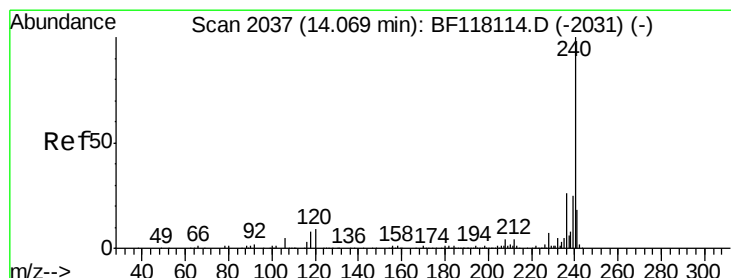
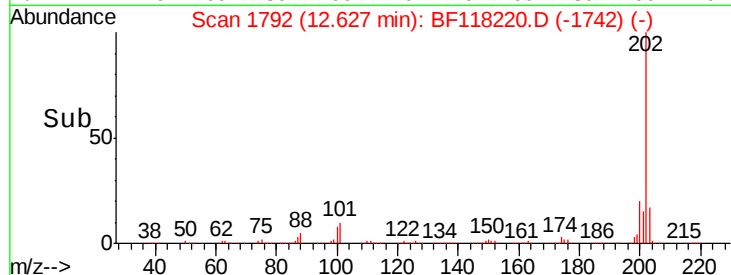
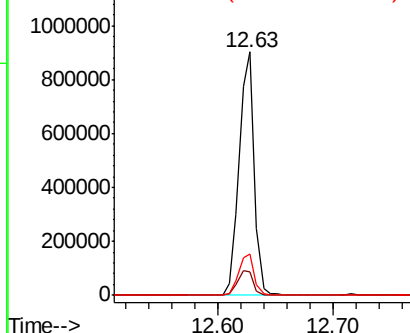
Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		818918		
101	9.9	0.0	30.4		
203	17.1	0.0	37.2		

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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

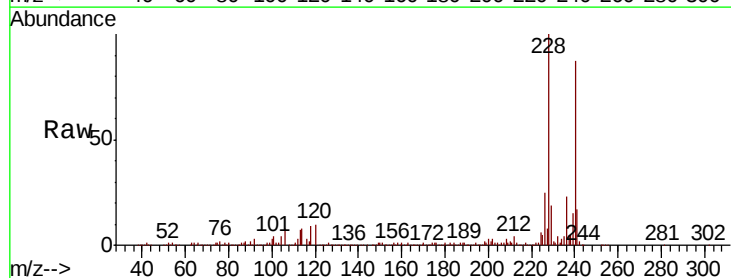
RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

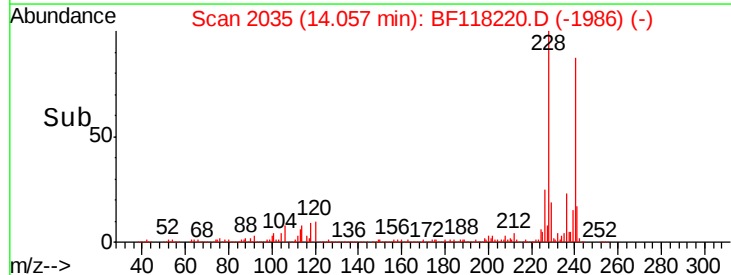
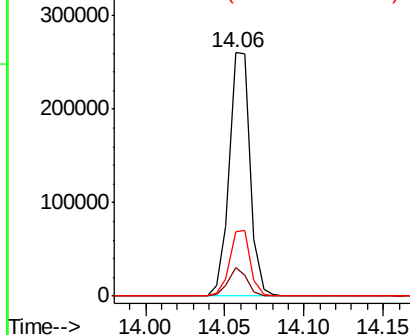
Lab File: BF118220.D

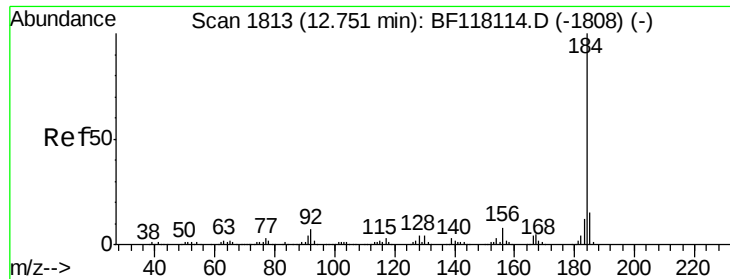
Acq: 17 Dec 2019 2:18

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
240	100		240376		
120	11.7	7.1	10.7#		
236	26.6	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: 33.829 ng

RT: 12.75 min Scan# 1812

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

ClientSampleId :

42-SPRUCMS

Tot Ion:184 Resp: 214068

Ion Ratio Lower Upper

184 100

185 14.3 12.3 18.5

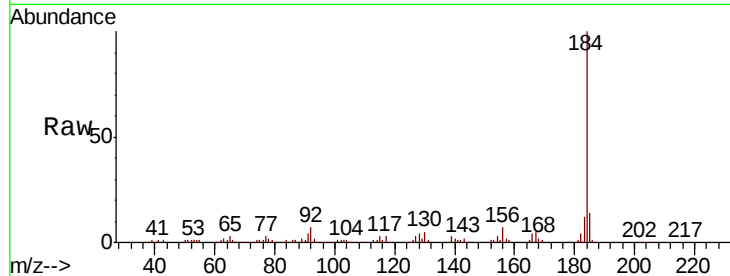
183 12.1 9.9 14.9

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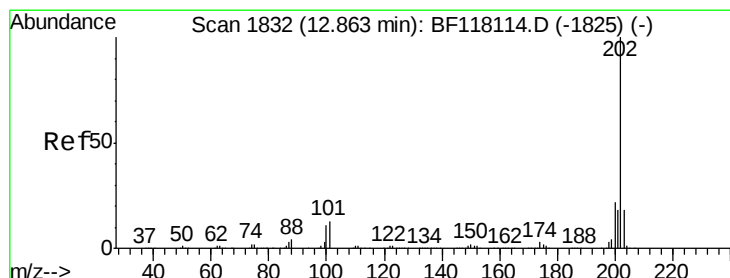
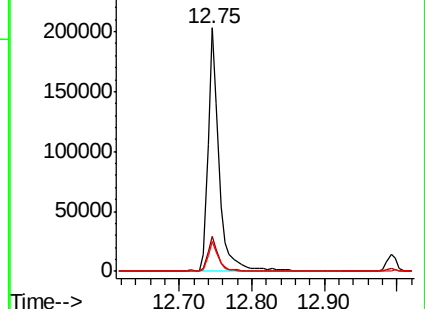
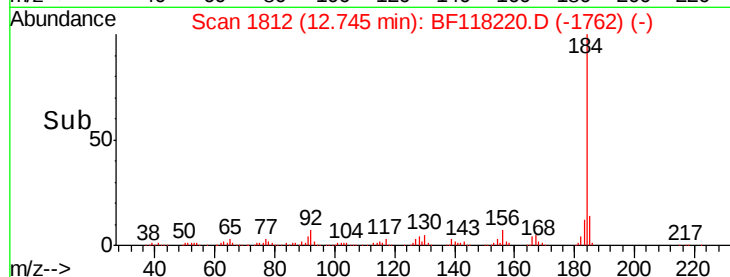
12/17/2019 3:19:32 PM



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: 43.805 ng

RT: 12.86 min Scan# 1831

Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

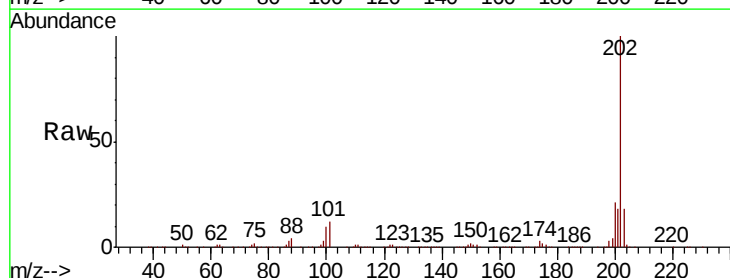
Tgt Ion:202 Resp: 829787

Ion Ratio Lower Upper

202 100

200 20.9 17.5 26.3

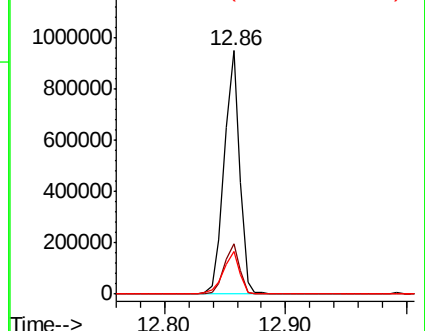
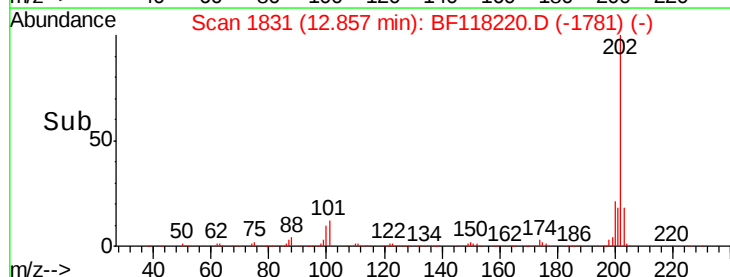
203 17.8 14.6 21.8

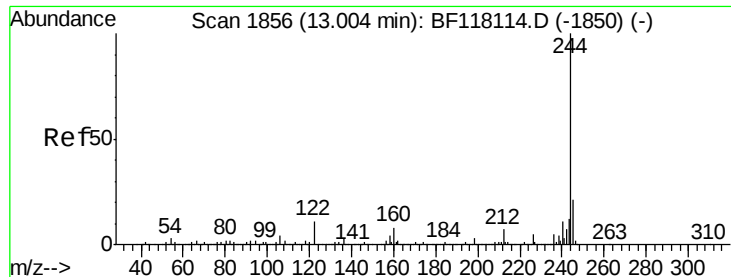


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





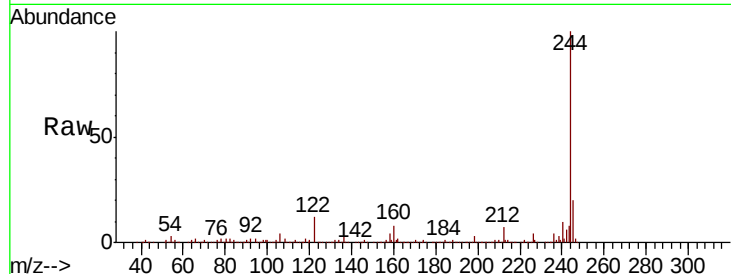
#79
Terphenyl-d14
Concen: 62.926 ng
RT: 12.99 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

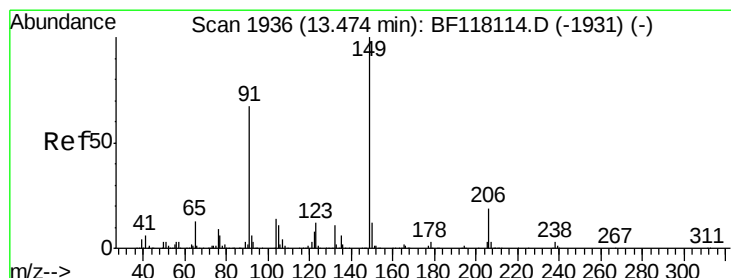
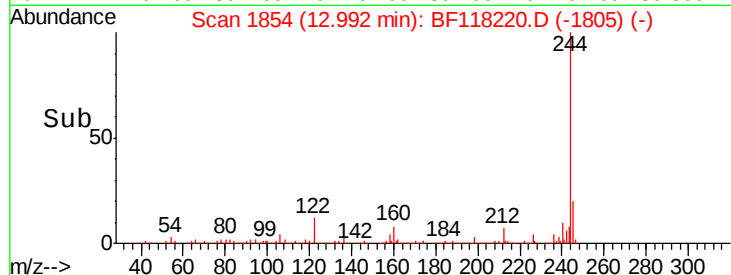
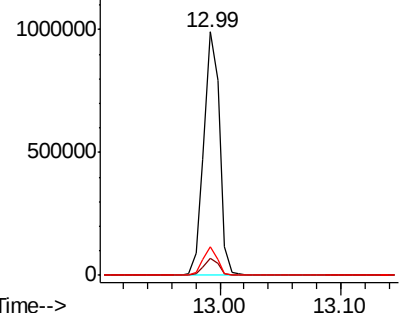
Tot Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.9	8.9
122	11.6	9.0	13.6

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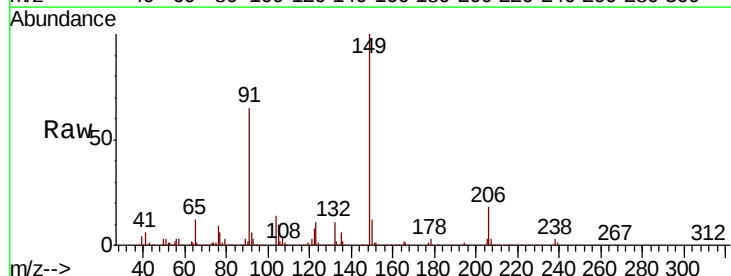


Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E

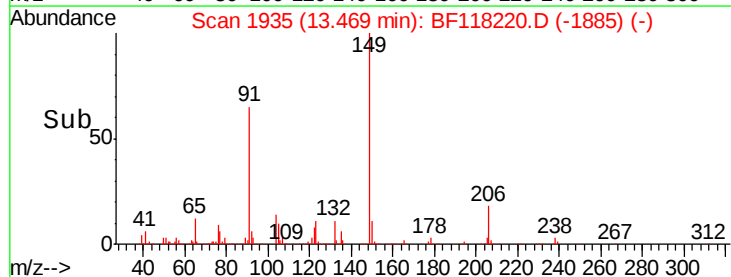
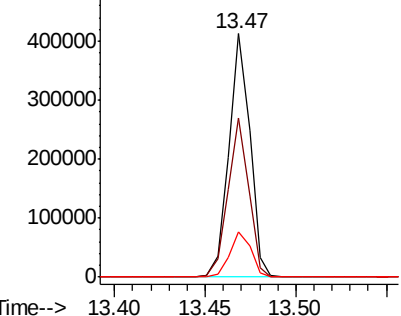


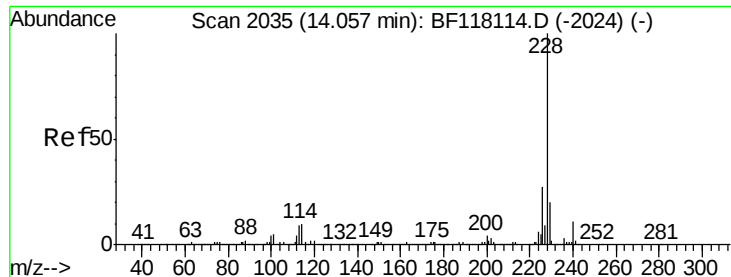
#80
Butylbenzylphthalate
Concen: 38.635 ng
RT: 13.47 min Scan# 1935
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
149	100		
91	65.4	53.9	80.9
206	18.4	15.2	22.8



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 91.00 (90.70 to 91.70): BF1
Ion 206.00 (205.70 to 206.70): E





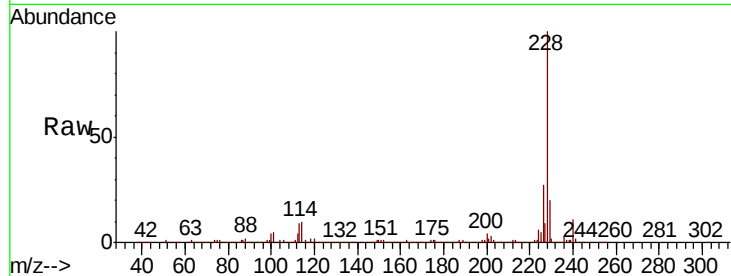
#81
Benzo(a)anthracene
Concen: 40.598 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.8	32.8
229	20.0	15.8	23.8

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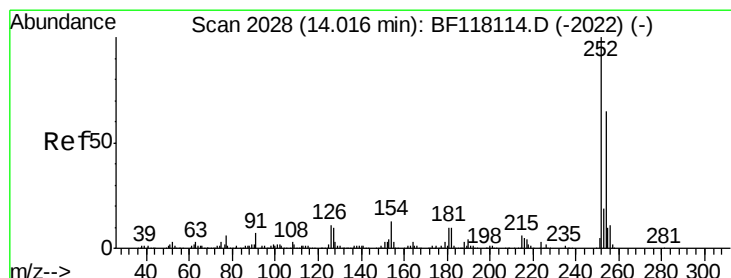
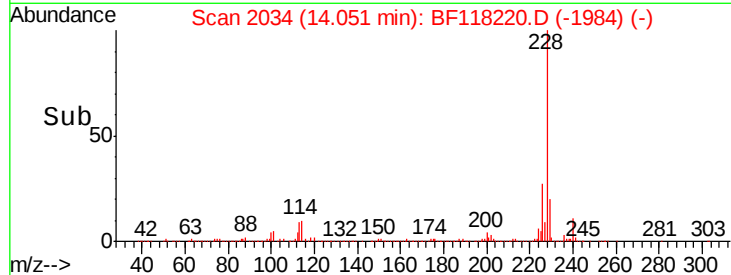
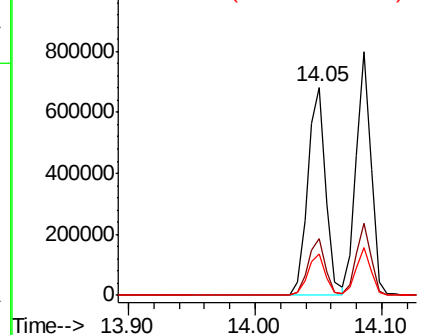


Abundance

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: 28.008 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

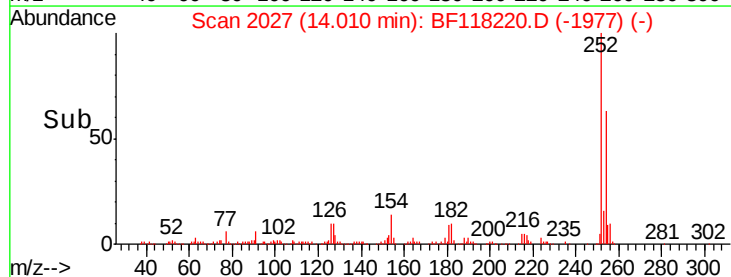
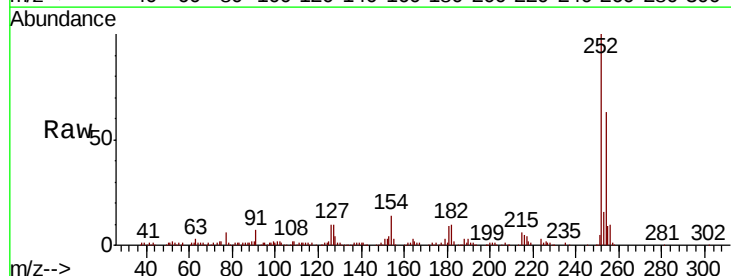
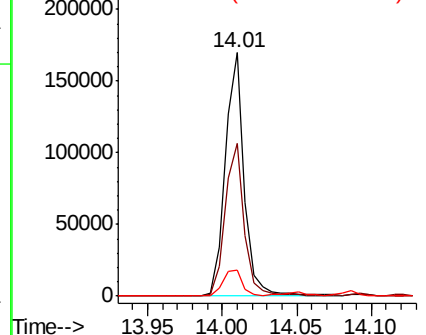
Tgt Ion	Ratio	Lower	Upper
252	100		
254	62.6	52.2	78.4
126	10.5	8.6	13.0

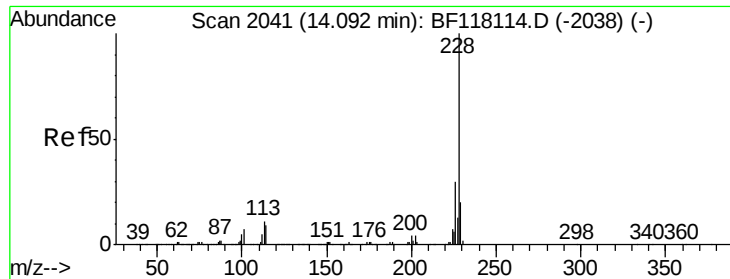
Abundance

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





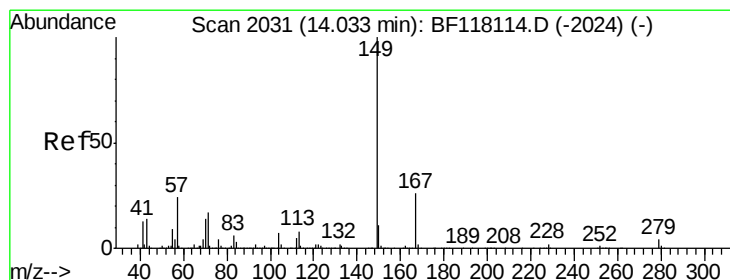
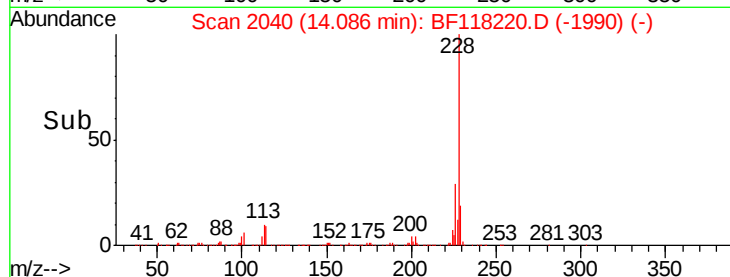
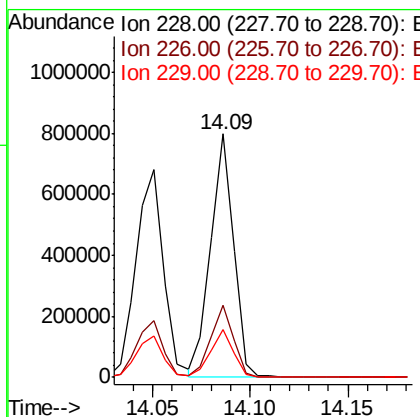
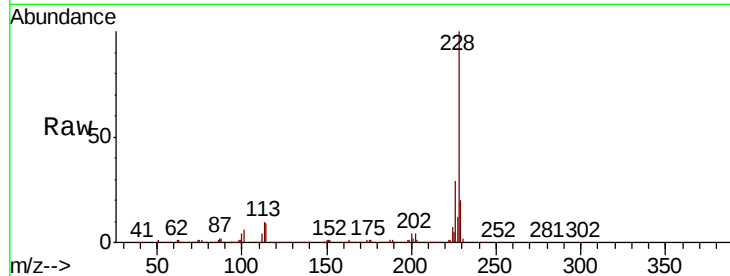
#83
 Chrvsene
 Concen: 41.271 ng
 RT: 14.09 min Scan# 2040
 Delta R.T. -0.01 min
 Lab File: BF118220.D
 Acq: 17 Dec 2019 2:18

Instrument :
 BNA_F
 ClientSampleId :
 42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.8	35.8
229	19.6	15.7	23.5

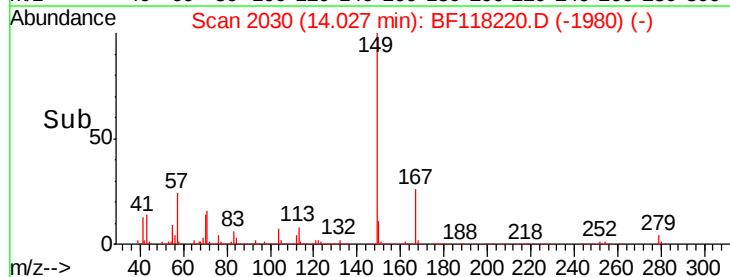
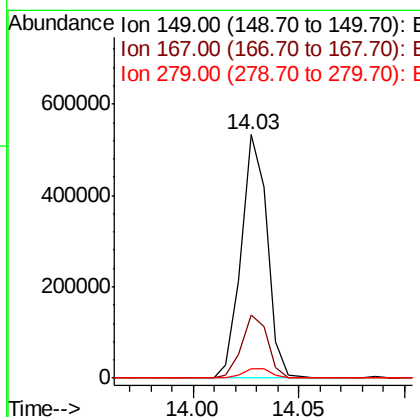
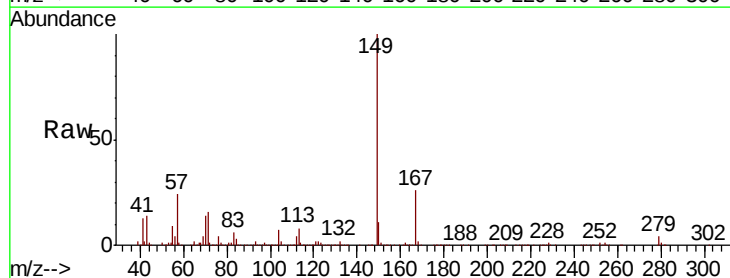
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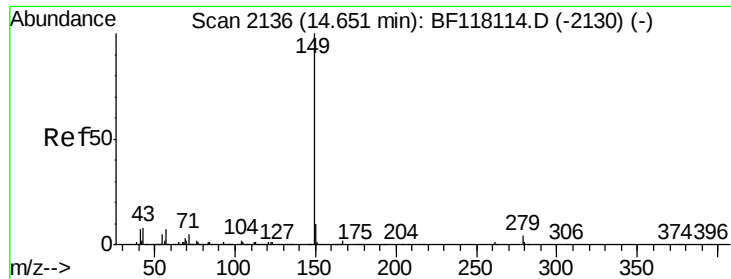
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#84
 Bis(2-ethylhexyl)phthalate
 Concen: 40.082 ng
 RT: 14.03 min Scan# 2030
 Delta R.T. -0.01 min
 Lab File: BF118220.D
 Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.8	31.2
279	3.6	2.9	4.3





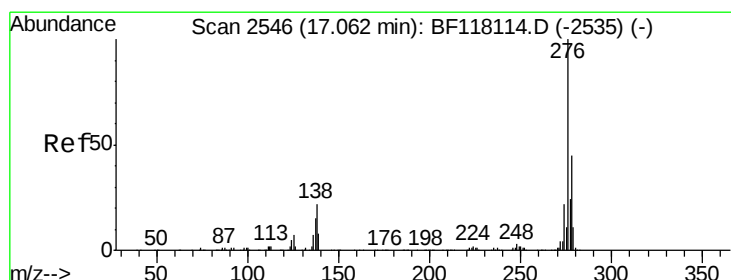
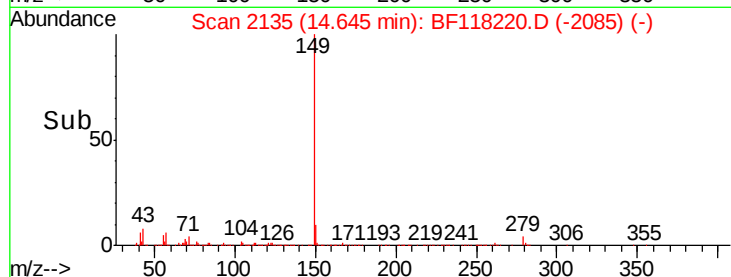
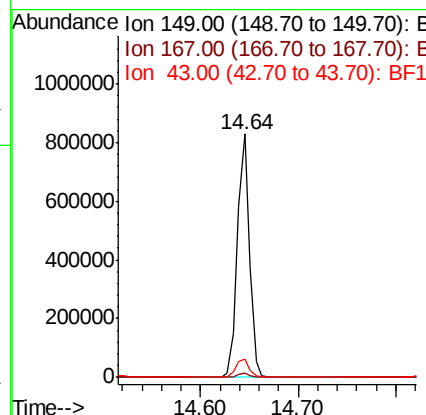
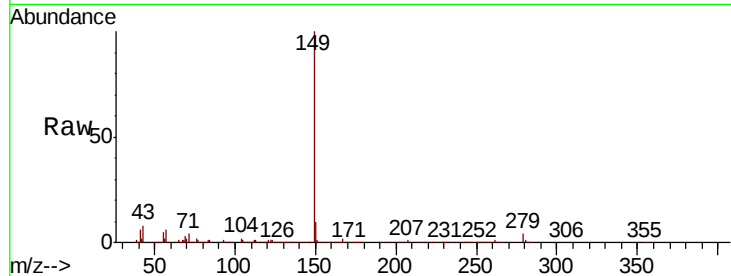
#85
Di-n-octyl phthalate
Concen: 41.602 ng
RT: 14.64 min Scan# 2135
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Resp Lower	Upper
149	100		
167	1.6	1.3	1.9
43	8.0	6.5	9.7

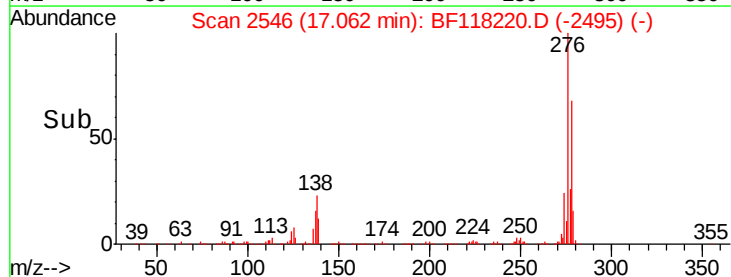
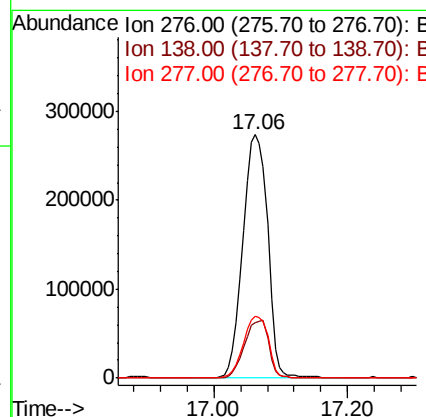
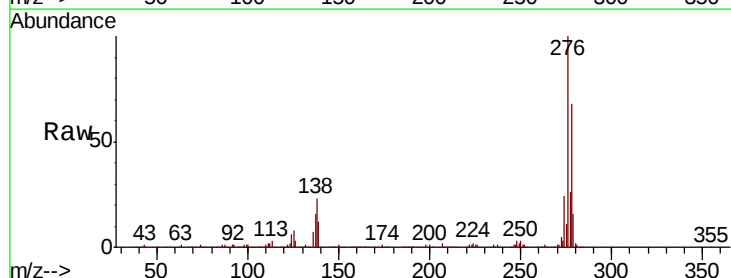
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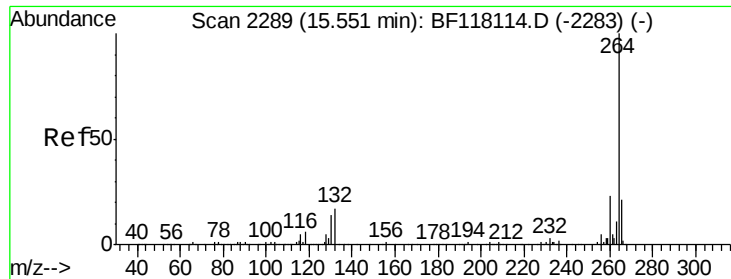
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#86
Indeno(1,2,3-cd)pyrene
Concen: 52.536 ng
RT: 17.06 min Scan# 2546
Delta R.T. -0.00 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Resp Lower	Upper
276	100		
138	23.2	18.9	28.3
277	25.7	20.4	30.6





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.55 min Scan# 2289

Delta R.T. -0.00 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Instrument :

BNA_F

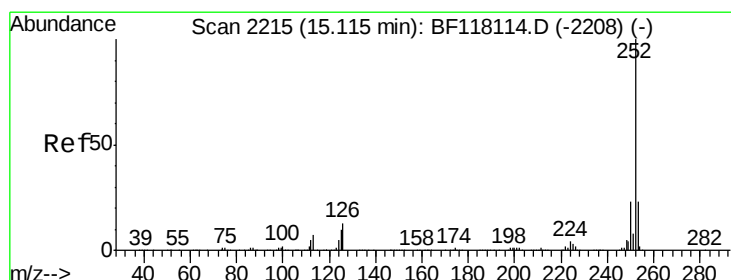
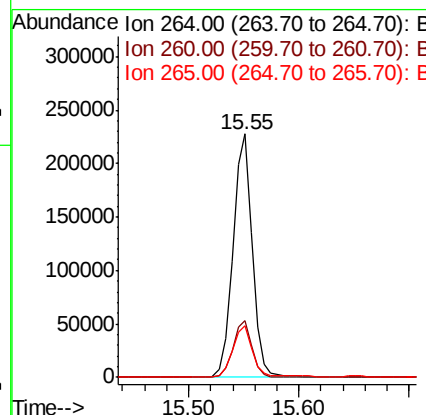
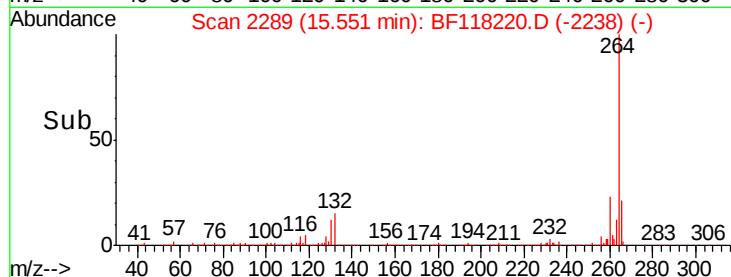
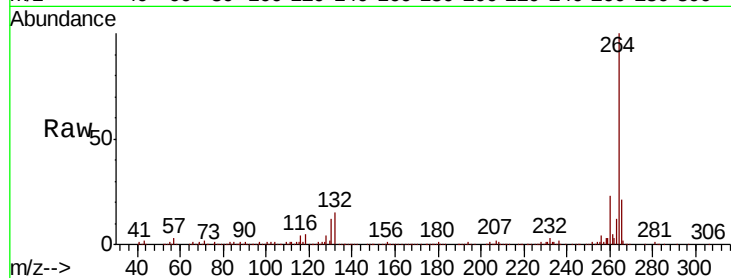
ClientSampleId :

42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.6	28.0
265	21.3	16.8	25.2

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#88

Benzo(b)fluoranthene

Concen: 38.175 ng

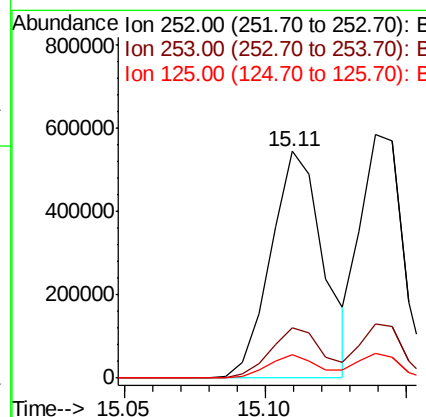
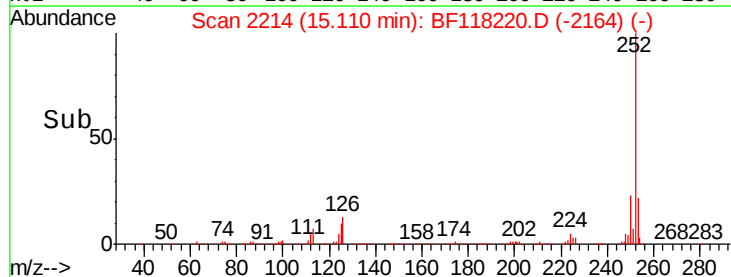
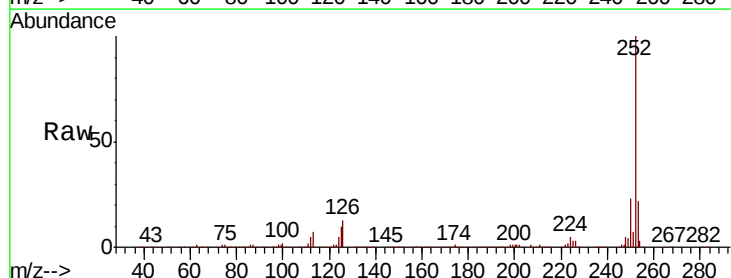
RT: 15.11 min Scan# 2214

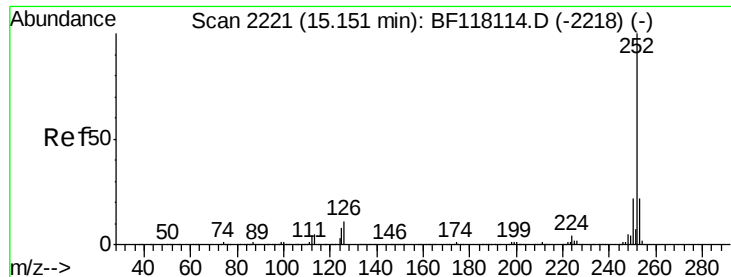
Delta R.T. -0.01 min

Lab File: BF118220.D

Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	18.2	27.4
125	10.2	8.3	12.5





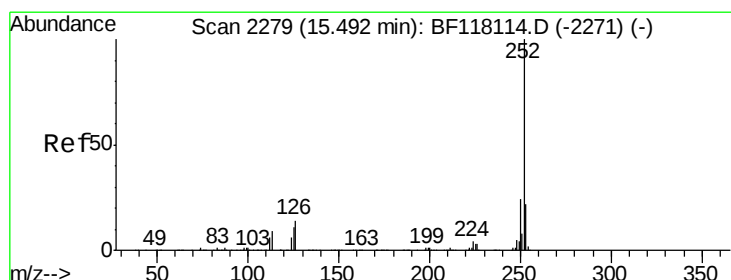
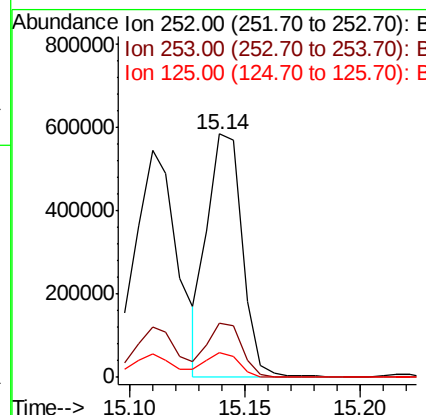
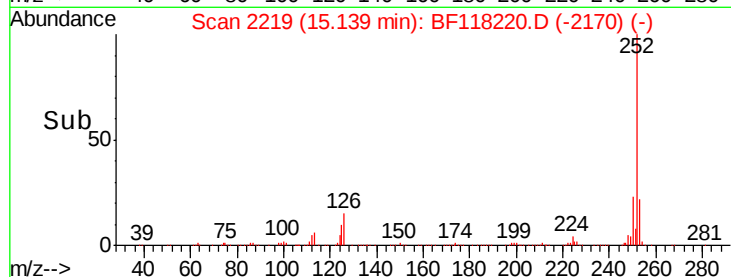
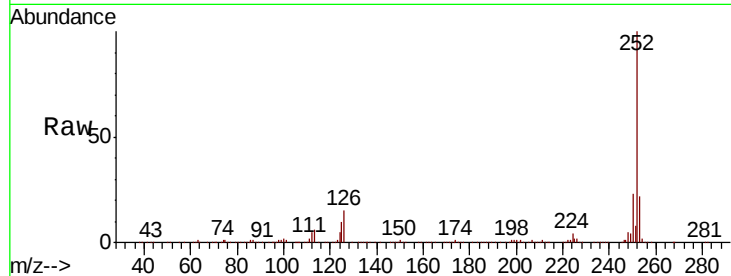
#89
Benzo(k)fluoranthene
Concen: 34.317 ng
RT: 15.14 min Scan# 2219
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	10.2	6.7	10.1

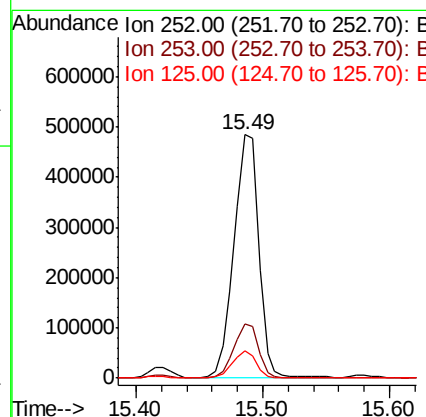
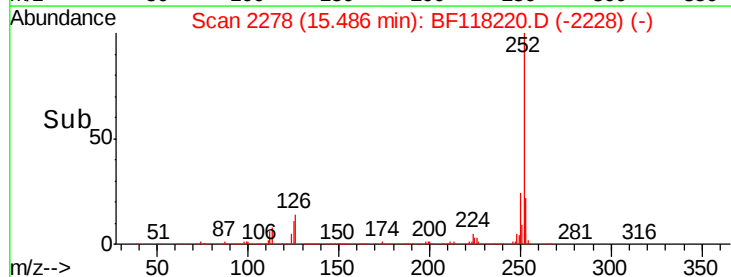
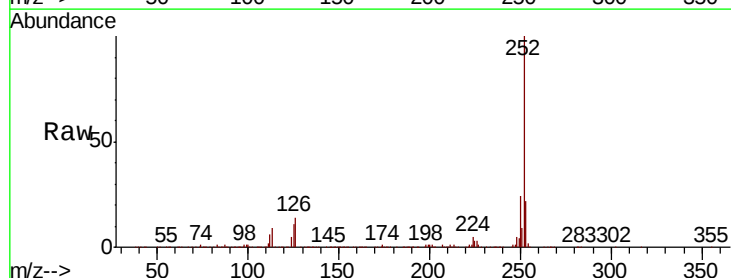
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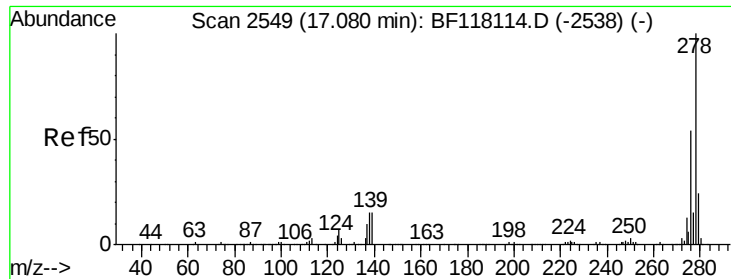
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#90
Benzo(a)pyrene
Concen: 40.001 ng
RT: 15.49 min Scan# 2278
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.5	26.3
125	11.2	9.1	13.7





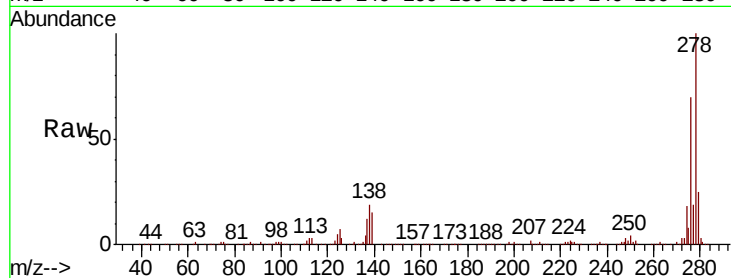
#91
Dibenzo(a,h)anthracene
Concen: 41.234 ng
RT: 17.07 min Scan# 2548
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Instrument :
BNA_F
ClientSampleId :
42-SPRUCEMS

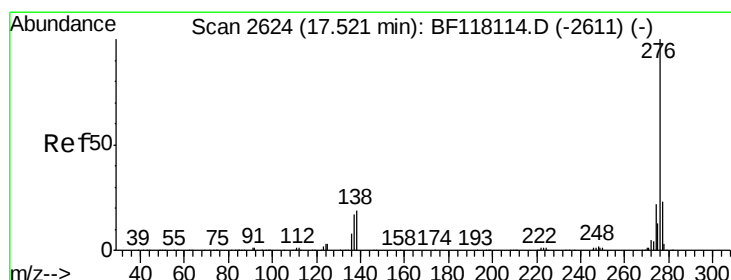
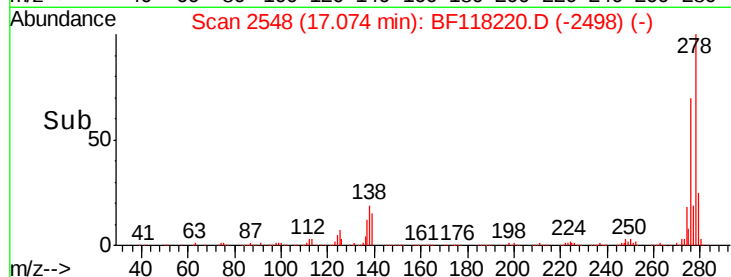
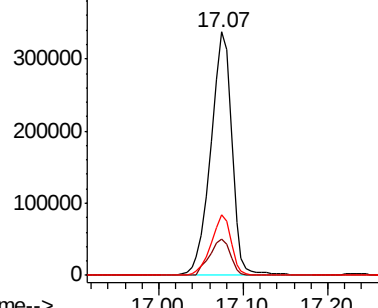
Tot Ion	Ratio	Lower	Upper
278	100		
139	14.7	11.7	17.5
279	25.0	19.0	28.4

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:32 PM

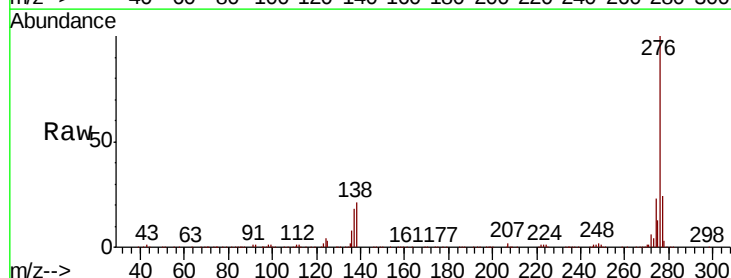


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#92
Benzo(g,h,i)perylene
Concen: 40.632 ng
RT: 17.52 min Scan# 2623
Delta R.T. -0.01 min
Lab File: BF118220.D
Acq: 17 Dec 2019 2:18

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.8	18.2	27.4
138	21.2	15.5	23.3



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

