

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF073018\
 Data File : BF107825.D
 Acq On : 31 Jul 2018 2:34
 Operator : JU/SJ
 Sample : J4210-01MSD
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Manual Integrations
 APPROVED

Sohil
 7/31/2018 2:43:04 PM

Quant Time: Jul 31 05:06:20 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jul 30 17:48:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	169935	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	637850	20.00	ng	0.00
38) Acenaphthene-d10	10.00	164	238811	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	439387	20.00	ng	0.00
75) Chrysene-d12	14.15	240	463311	20.00	ng	0.00
86) Perylene-d12	15.69	264	371165	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.61	112	944809	94.49	ng	0.01
7) Phenol-d6	6.61	99	1113143	84.47	ng	0.00
23) Nitrobenzene-d5	7.53	82	733218	66.22	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	241413	74.40	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	1153650	67.32	ng	0.00
78) Terphenyl-d14	13.08	244	1149663	53.81	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.86	88	117580	27.832	ng	# 86
3) Pyridine	3.66	79	180797	19.650	ng	# 86
4) n-Nitrosodimethylamine	3.63	42	65147	12.805	ng	91
6) Aniline	6.64	93	194559	14.194	ng	# 20
8) 2-Chlorophenol	6.76	128	359597	28.631	ng	97
9) Benzaldehyde	6.52	77	152858	19.226	ng	96
10) Phenol	6.62	94	412902	26.274	ng	93
11) bis(2-Chloroethyl)ether	6.70	93	312012	22.328	ng	92
12) 1,3-Dichlorobenzene	6.91	146	382274	29.019	ng	97
13) 1,4-Dichlorobenzene	6.98	146	420620	28.684	ng	99
14) 1,2-Dichlorobenzene	7.13	146	384220	28.226	ng	99
15) Benzyl Alcohol	7.11	79	242176	29.567	ng	98
16) 2,2'-oxybis(1-Chloropropan	7.23	45	610364	30.380	ng	73
17) 2-Methylphenol	7.22	107	256682	27.684	ng	# 77
18) Hexachloroethane	7.47	117	122707	23.280	ng	93
19) n-Nitroso-di-n-propylamine	7.37	70	250130	29.922	ng	97
20) 3+4-Methylphenols	7.38	107	298704	26.241	ng	# 76
22) Acetophenone	7.37	105	513440	33.458	ng	# 93
24) Nitrobenzene	7.55	77	334961	28.852	ng	97
25) Isophorone	7.78	82	653727	35.970	ng	98
26) 2-Nitrophenol	7.87	139	164435	28.222	ng	97
27) 2,4-Dimethylphenol	7.90	122	267831	34.334	ng	98
28) bis(2-Chloroethoxy)methane	7.99	93	427327	35.678	ng	100
29) 2,4-Dichlorophenol	8.11	162	255362	28.941	ng	98
30) 1,2,4-Trichlorobenzene	8.18	180	302157	30.017	ng	98
31) Naphthalene	8.27	128	967349	32.626	ng	99
32) Benzoic acid	7.96	122	40255m	8.900	ng	
33) 4-Chloroaniline	8.33	127	182533	14.413	ng	93
34) Hexachlorobutadiene	8.37	225	176320	28.345	ng	98
35) Caprolactam	8.68	113	62836	23.656	ng	# 80
36) 4-Chloro-3-methylphenol	8.81	107	272786	28.466	ng	97
37) 2-Methylnaphthalene	8.96	142	603208	32.388	ng	99
39) 1,2,4,5-Tetrachlorobenzene	9.12	216	279477	34.324	ng	# 97
40) Hexachlorocyclopentadiene	9.10	237	18406	12.179	ng	97

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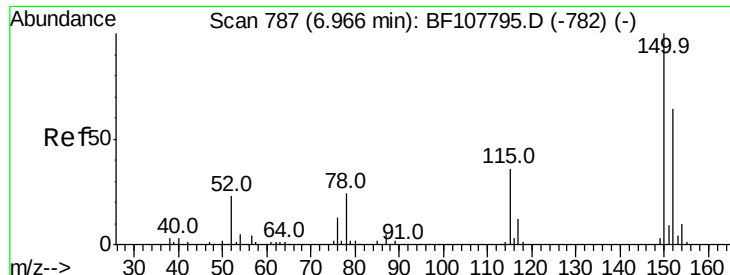
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 2,4,6-Trichlorophenol	9.24	196	152769	33.939	ng	97
43) 2,4,5-Trichlorophenol	9.30	196	166749	30.771	ng	94
45) 1,1'-Biphenyl	9.42	154	743909	34.229	ng	99
46) 2-Chloronaphthalene	9.45	162	530431	32.365	ng	98
47) 2-Nitroaniline	9.56	65	177956	33.382	ng	92
48) Acenaphthylene	9.87	152	836696	32.931	ng	100
49) Dimethylphthalate	9.71	163	692538	38.614	ng	100
50) 2,6-Dinitrotoluene	9.79	165	116409	29.867	ng	91
51) Acenaphthene	10.04	154	474833	32.172	ng	99
52) 3-Nitroaniline	9.98	138	128982	26.262	ng	95
53) 2,4-Dinitrophenol	10.13	184	1457	9.075	ng #	1
54) Dibenzofuran	10.21	168	695043	30.468	ng	99
55) 4-Nitrophenol	10.17	139	75073	38.010	ng	94
56) 2,4-Dinitrotoluene	10.20	165	136193	26.586	ng #	88
57) Fluorene	10.55	166	529059	29.842	ng	94
58) 2,3,4,6-Tetrachlorophenol	10.34	232	125677	25.250	ng #	86
59) Diethylphthalate	10.41	149	605013	31.375	ng	98
60) 4-Chlorophenyl-phenylether	10.54	204	265443	27.484	ng	90
61) 4-Nitroaniline	10.59	138	124555	28.577	ng	91
62) Azobenzene	10.70	77	526556	29.320	ng	96
64) 4,6-Dinitro-2-methylphenol	10.61	198	5820	2.435	ng #	23
65) n-Nitrosodiphenylamine	10.67	169	462759	31.985	ng	99
66) 4-Bromophenyl-phenylether	11.04	248	155469	30.357	ng #	84
67) Hexachlorobenzene	11.10	284	160266	28.221	ng	92
68) Atrazine	11.18	200	131269	30.656	ng	97
69) Pentachlorophenol	11.31	266	128166	45.845	ng	99
70) Phenanthrene	11.52	178	683497	32.761	ng	98
71) Anthracene	11.58	178	791972	32.910	ng	98
72) Carbazole	11.74	167	760344	31.973	ng	98
73) Di-n-butylphthalate	12.04	149	845833	32.602	ng	99
74) Fluoranthene	12.72	202	878935	35.860	ng	98
76) Benzidine	12.85	184	145576	9.718	ng	98
77) Pyrene	12.95	202	880111	26.380	ng	98
79) Butylbenzylphthalate	13.55	149	403017	27.585	ng	93
80) Benzo(a)anthracene	14.14	228	831468	31.681	ng	99
81) 3,3'-Dichlorobenzidine	14.10	252	284069	27.922	ng	96
82) Chrysene	14.18	228	846300	29.896	ng	98
83) Bis(2-ethylhexyl)phthalate	14.10	149	553391	30.130	ng	100
84) Di-n-octyl phthalate	14.72	149	1056986	35.854	ng	98
85) Indeno(1,2,3-cd)pyrene	17.27	276	554518	25.754	ng	95
87) Benzo(b)fluoranthene	15.23	252	605304	33.066	ng	98
88) Benzo(k)fluoranthene	15.26	252	754888	33.588	ng	98
89) Benzo(a)pyrene	15.62	252	595856	31.530	ng	98
90) Dibenzo(a,h)anthracene	17.28	278	476660	28.916	ng	98
91) Benzo(g,h,i)perylene	17.75	276	447616	28.063	ng	94

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



#1

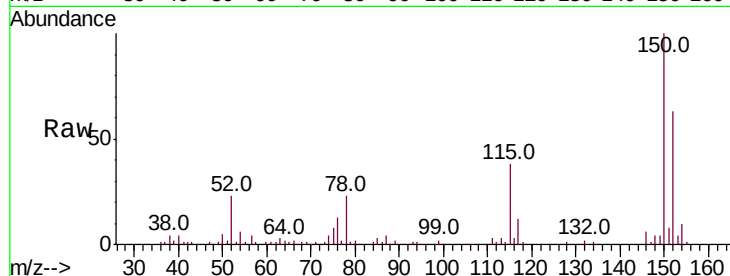
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 787
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
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TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.9	124.6	186.8
115	60.2	50.1	75.1

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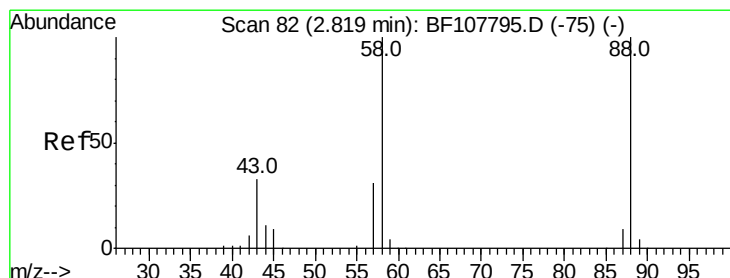
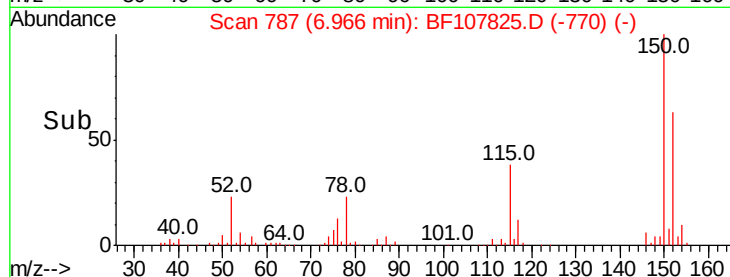
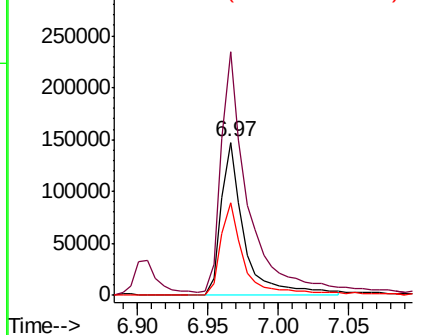


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane
Concen: 27.832 ng
RT: 2.86 min Scan# 89
Delta R.T. 0.04 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

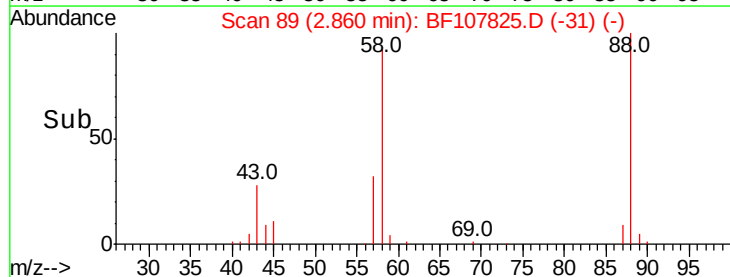
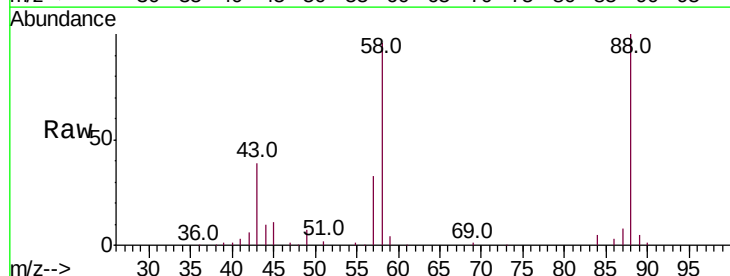
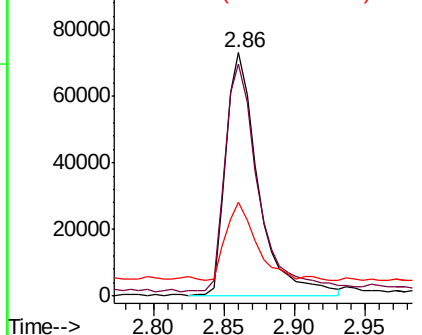
Tgt Ion	Ratio	Lower	Upper
88	100		
58	95.5	62.6	93.8#
43	30.3	24.6	37.0

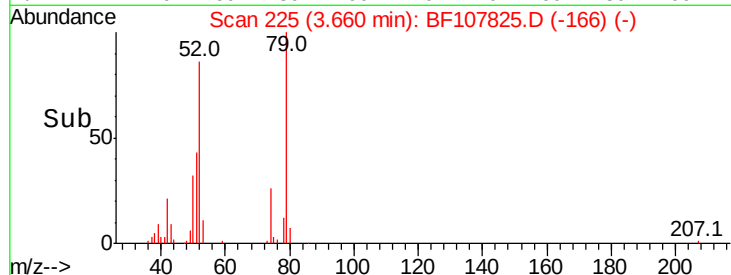
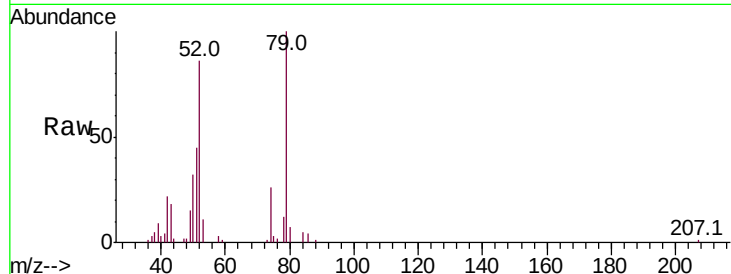
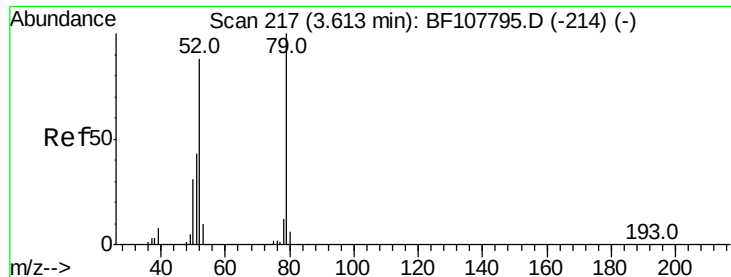
Abundance

Ion 88.00 (87.70 to 88.70): BF1

Ion 58.00 (57.70 to 58.70): BF1

Ion 43.00 (42.70 to 43.70): BF1





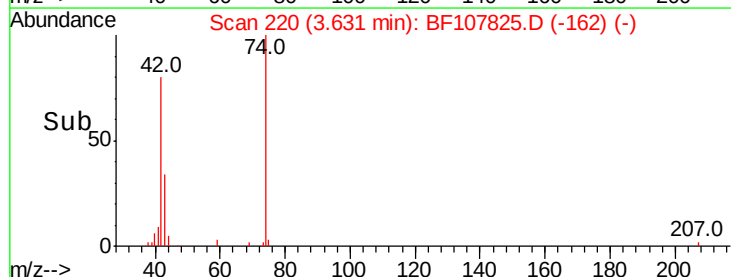
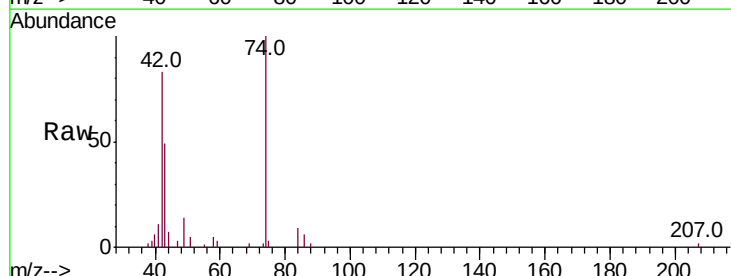
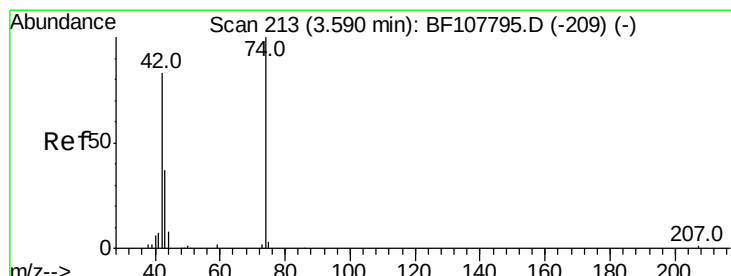
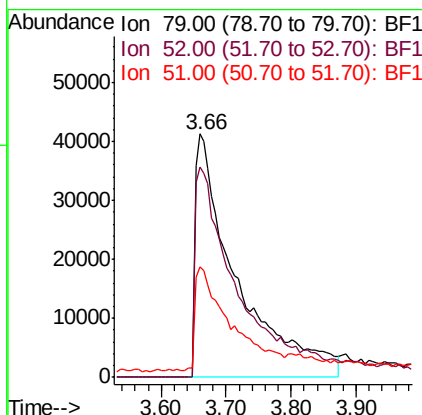
#3
Pvridine
Concen: 19.650 ng
RT: 3.66 min Scan# 225
Delta R.T. 0.05 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tot Ion	Ratio	Resp Lower	Upper
79	100		
52	86.4	59.8	89.6
51	45.3	29.8	44.8

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

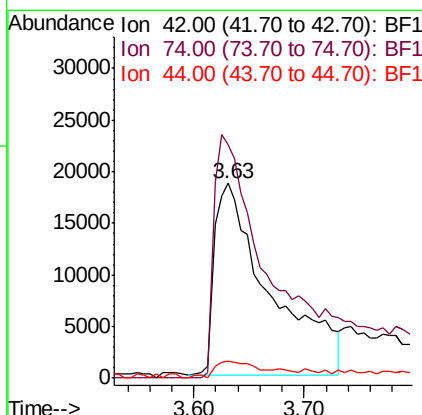
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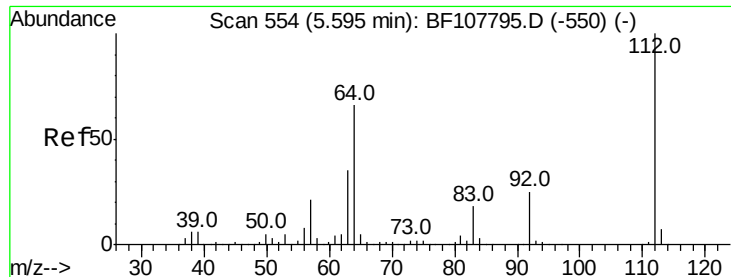
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#4
n-Nitrosodimethylamine
Concen: 12.805 ng
RT: 3.63 min Scan# 220
Delta R.T. 0.04 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp Lower	Upper
42	100		
74	120.0	104.9	157.3
44	8.6	6.9	10.3





#5

2-Fluorophenol

Concen: 94.492 ng

RT: 5.61 min Scan# 556

Delta R.T. 0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

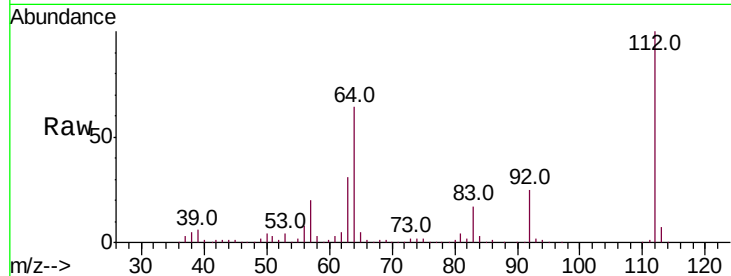
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	112	Resp:	944809
Ion Ratio	Lower	Upper	
112	100		
64	64.4	47.9	71.9
63	31.3	23.7	35.5

Manual Integrations
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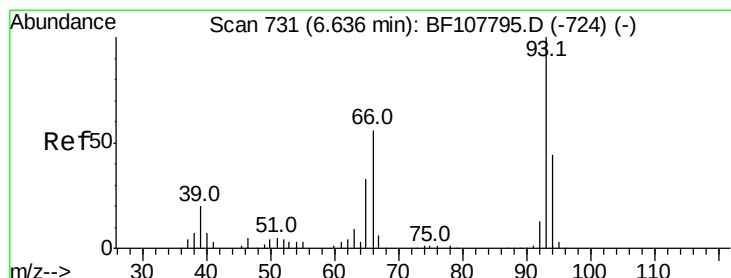
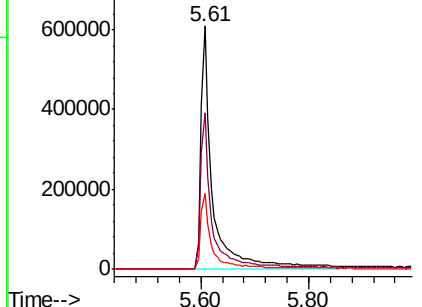
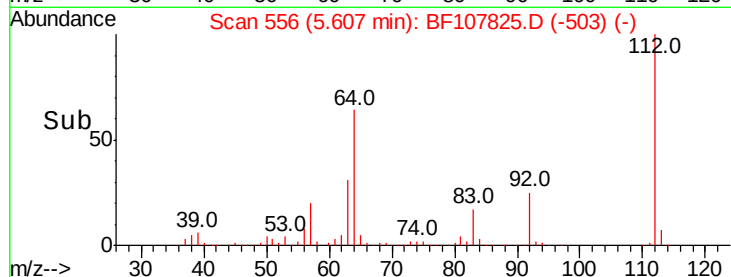
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Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



#6

Aniline

Concen: 14.194 ng

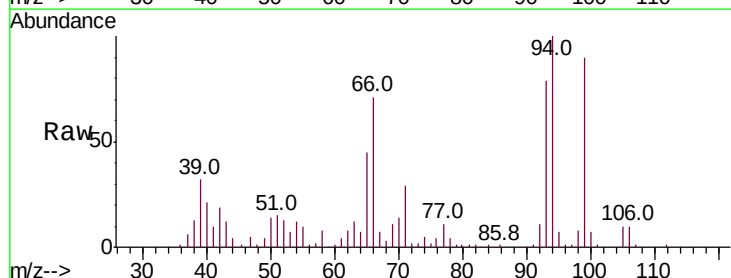
RT: 6.64 min Scan# 731

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

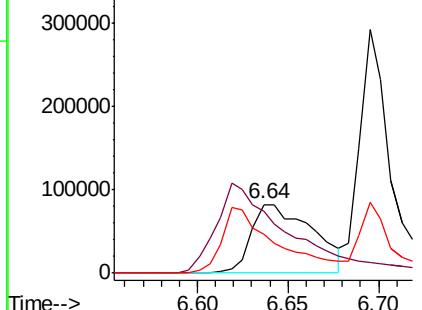
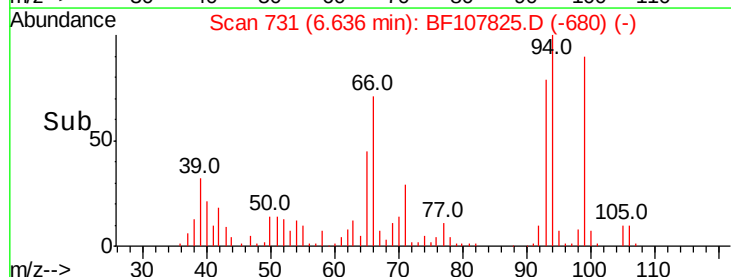
Tgt Ion:	93	Resp:	194559
Ion Ratio	Lower	Upper	
93	100		
66	89.6	32.2	48.2#
65	57.3	16.4	24.6#

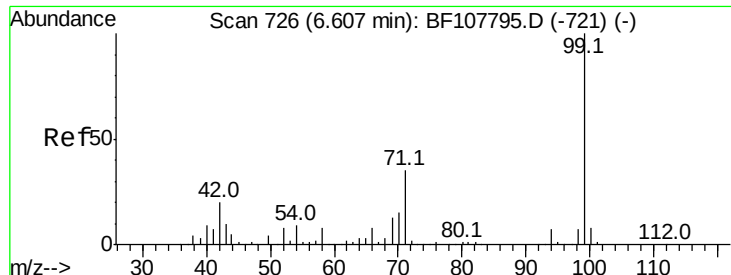


Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#7

Phenol-d6

Concen: 84.470 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-072618MSD

Tot Ion: 99 Resp: 1113143

Ion Ratio Lower Upper

99 100

42 18.5 14.5 21.7

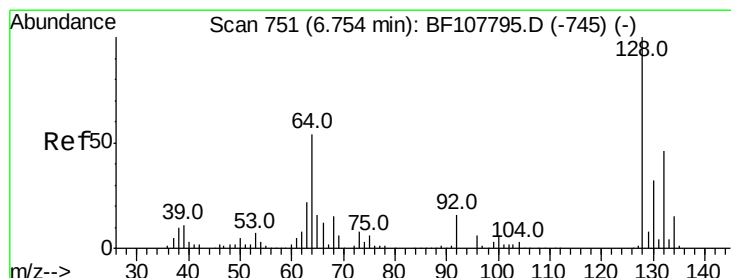
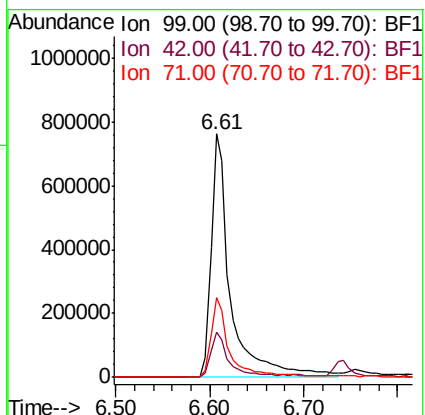
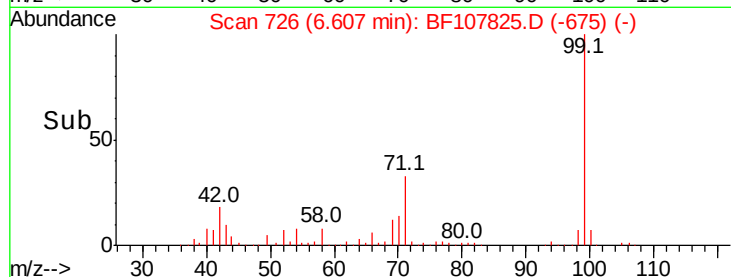
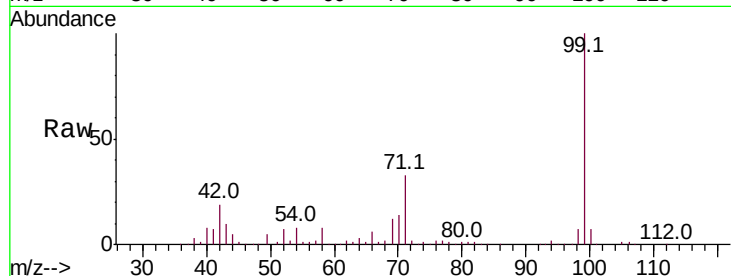
71 32.5 25.4 38.0

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#8

2-Chlorophenol

Concen: 28.631 ng

RT: 6.76 min Scan# 752

Delta R.T. 0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

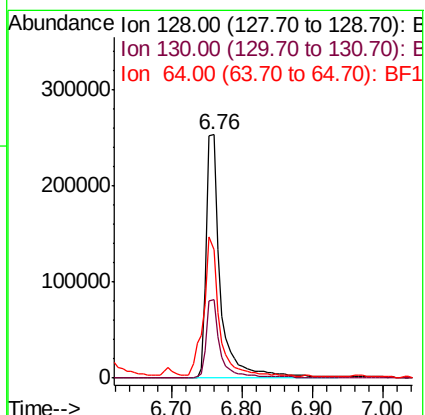
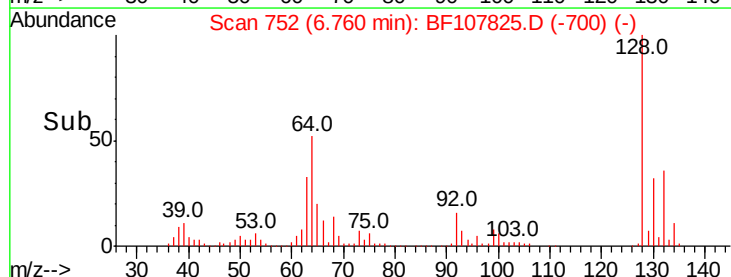
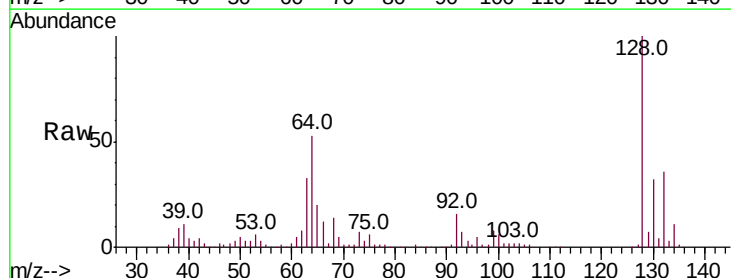
Tgt Ion: 128 Resp: 359597

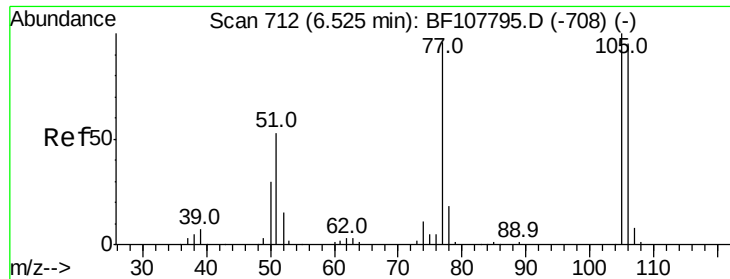
Ion Ratio Lower Upper

128 100

130 32.4 13.0 53.0

64 52.5 29.4 69.4





#9

Benzaldehyde

Concen: 19.226 ng

RT: 6.52 min Scan# 712

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

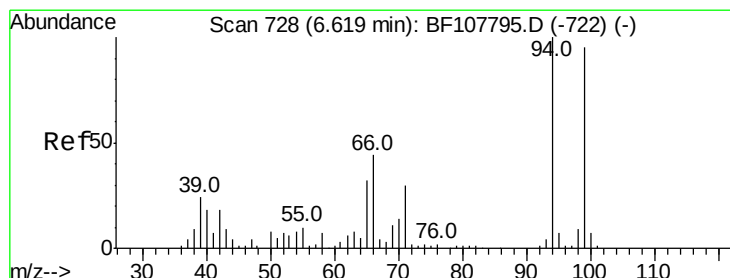
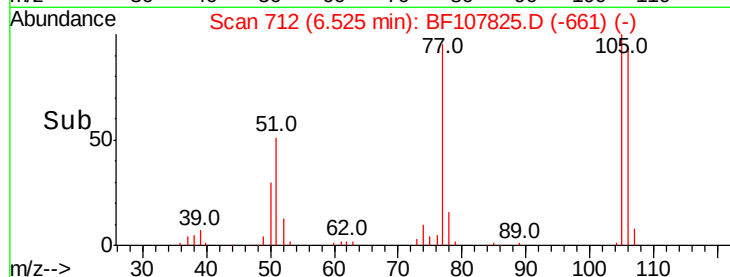
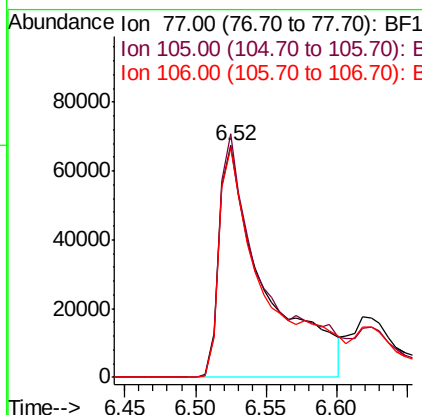
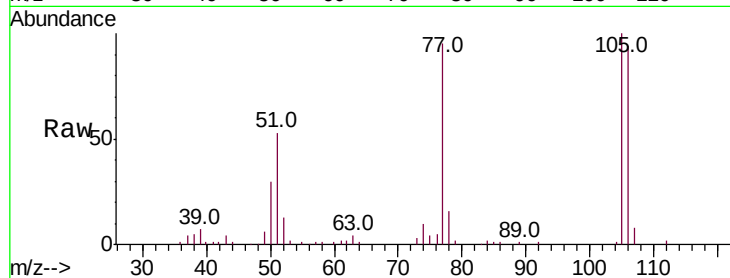
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	77	Resp:	152858
Ion Ratio	Lower	Upper	
77	100		
105	105.2	81.1	121.1
106	99.2	74.5	114.5

Manual Integrations
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#10

Phenol

Concen: 26.274 ng

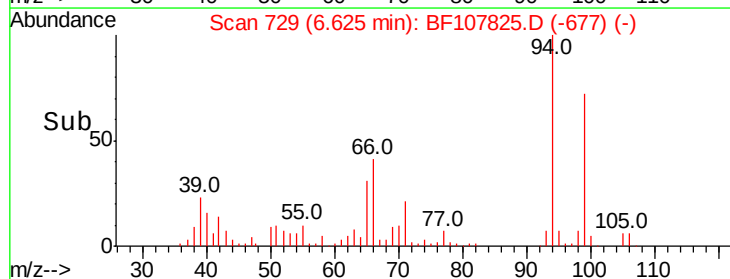
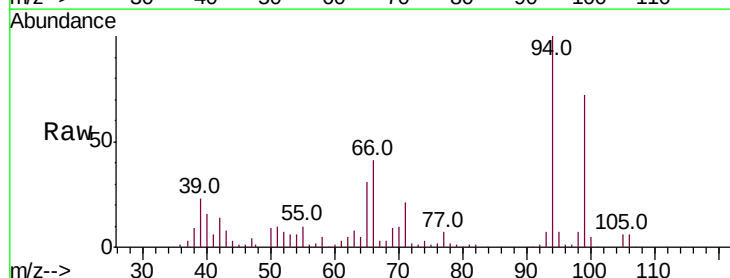
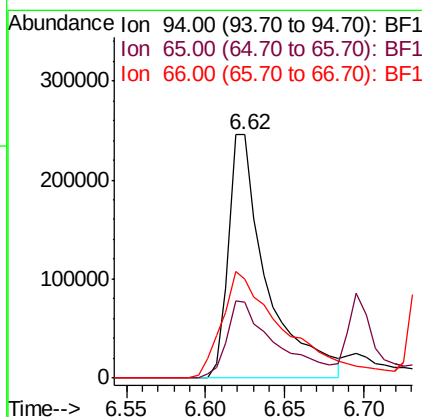
RT: 6.62 min Scan# 729

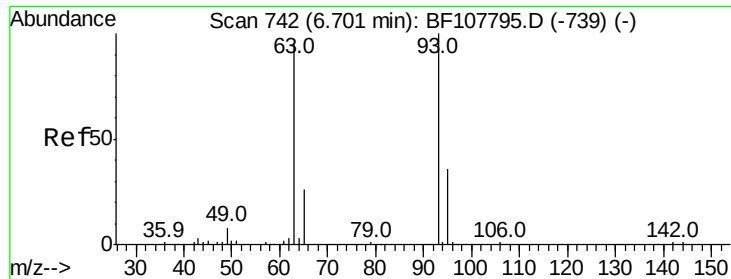
Delta R.T. 0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	94	Resp:	412902
Ion Ratio	Lower	Upper	
94	100		
65	31.1	7.9	47.9
66	40.6	16.2	56.2





#11

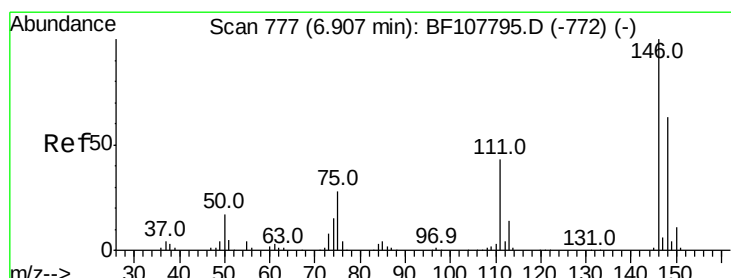
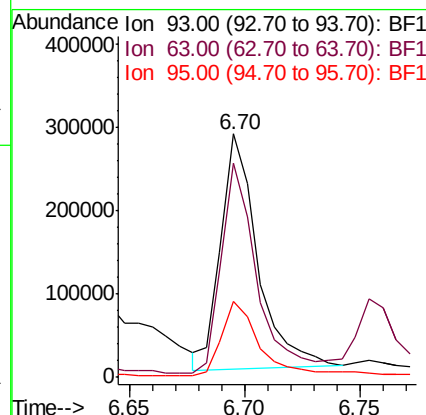
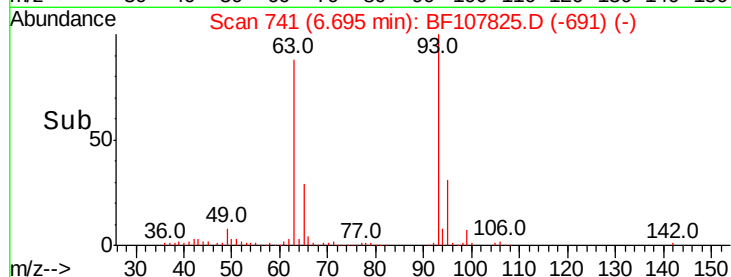
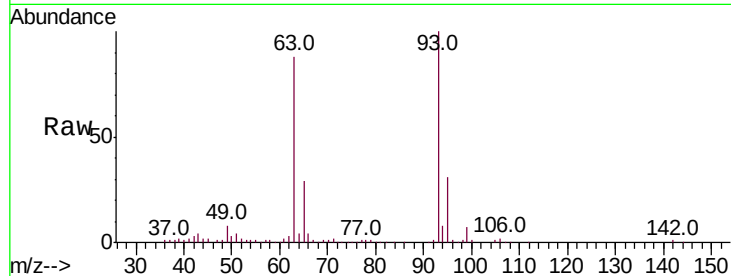
bis(2-Chloroethyl)ether
Concen: 22.328 ng
RT: 6.70 min Scan# 741
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
93	100		
63	88.1	58.6	98.6
95	31.3	11.8	51.8

Manual Integrations
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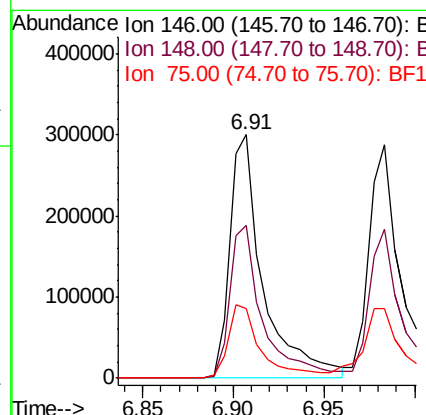
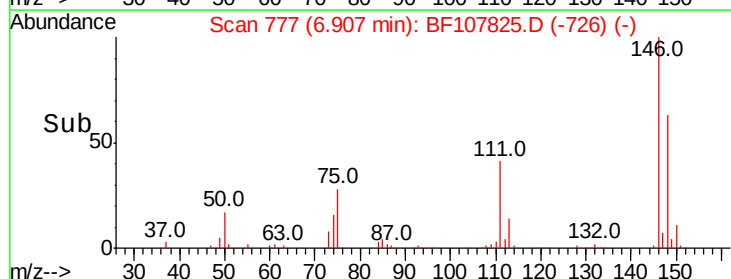
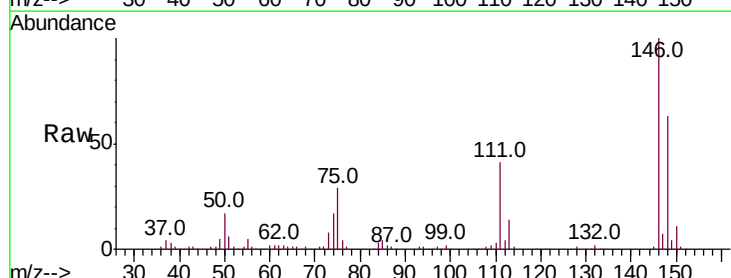
Sohil
7/31/2018 2:43:04 PM

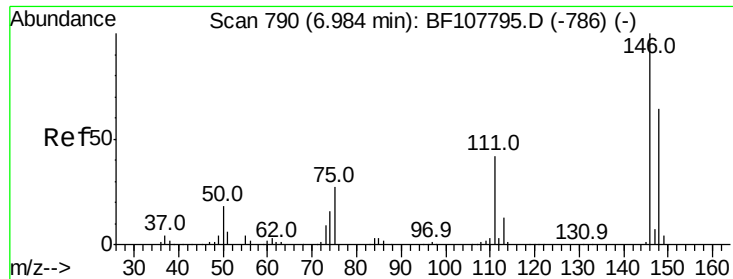


#12

1,3-Dichlorobenzene
Concen: 29.019 ng
RT: 6.91 min Scan# 777
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.8	77.8
75	28.7	24.2	36.4





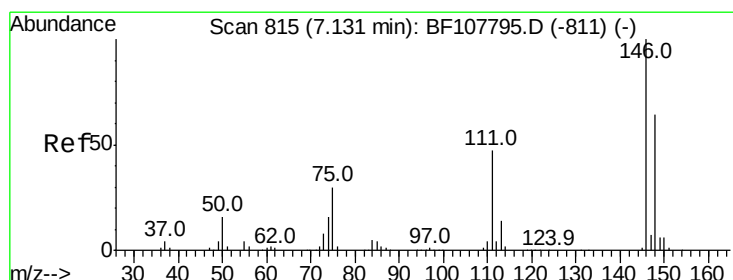
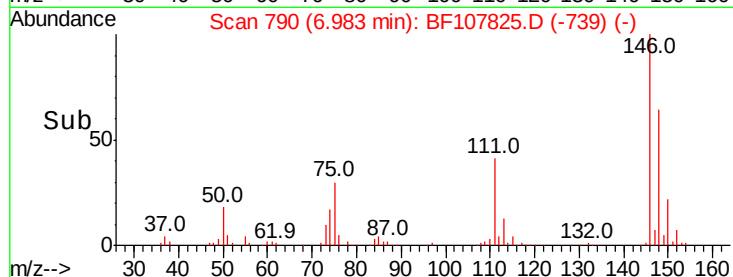
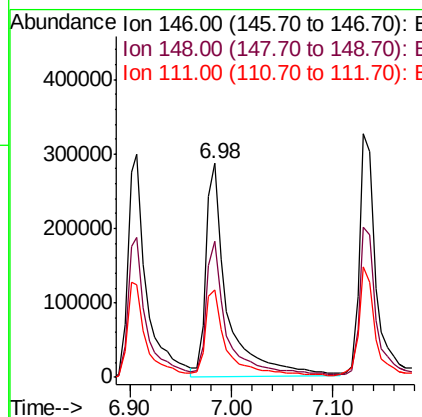
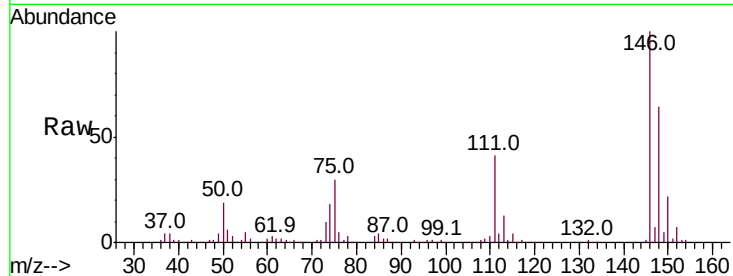
#13
 1,4-Dichlorobenzene
 Concen: 28.684 ng
 RT: 6.98 min Scan# 790
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
146	100		
148	63.8	50.8	76.2
111	41.2	34.2	51.2

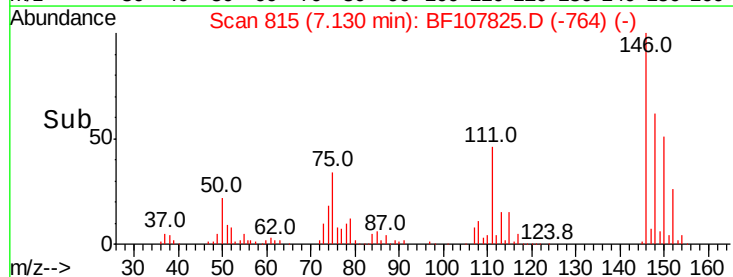
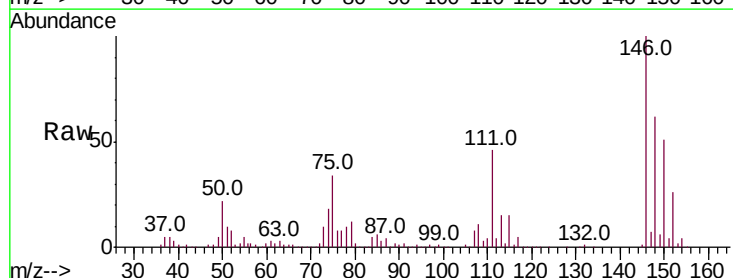
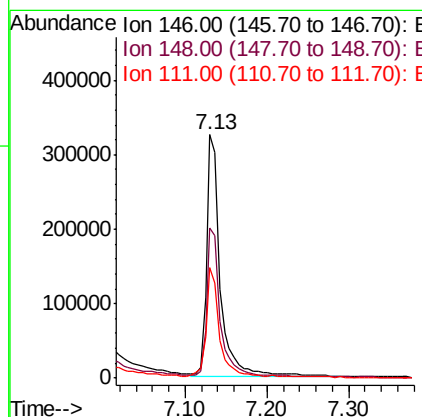
Manual Integrations
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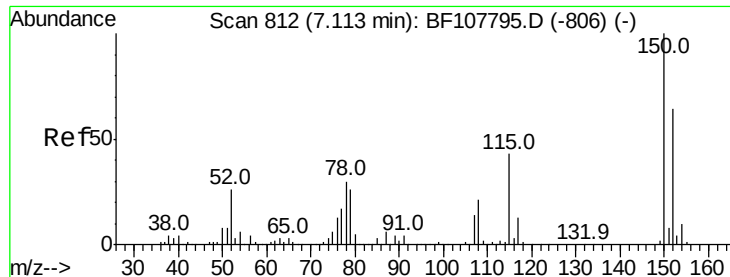
Sohil
 7/31/2018 2:43:04 PM



#14
 1,2-Dichlorobenzene
 Concen: 28.226 ng
 RT: 7.13 min Scan# 815
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
146	100		
148	61.7	50.6	75.8
111	45.6	36.0	54.0





#15

Benzyl Alcohol

Concen: 29.567 ng

RT: 7.11 min Scan# 811

Delta R.T. -0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-072618MSD

Tot Ion: 79 Resp: 242176

Ion Ratio Lower Upper

79 100

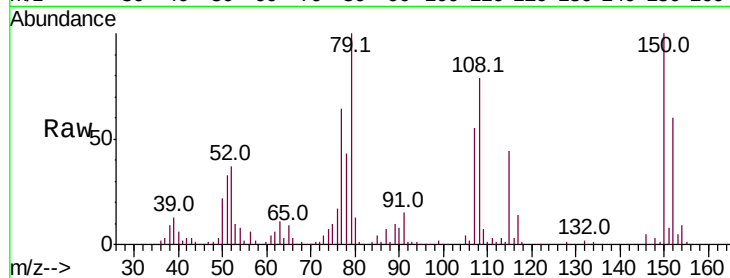
108 78.8 65.1 97.7

77 63.9 50.6 75.8

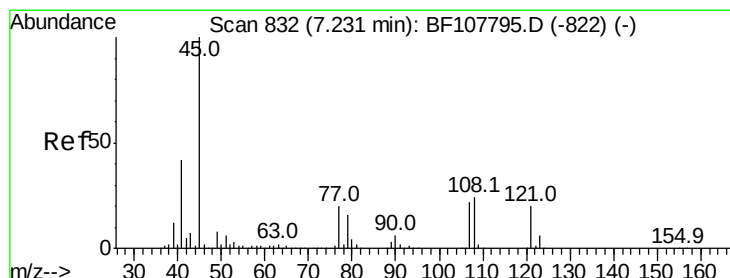
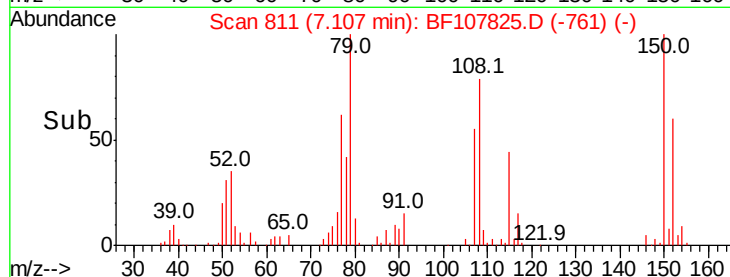
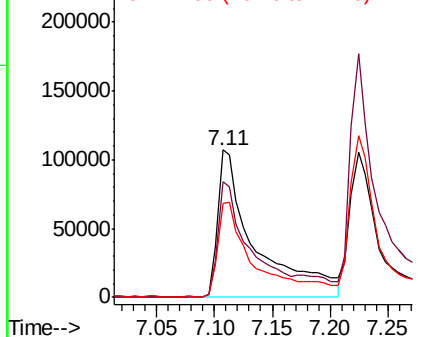
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Abundance Ion 79.00 (78.70 to 79.70): BF1
Ion 108.00 (107.70 to 108.70): BF1
Ion 77.00 (76.70 to 77.70): BF1



#16

2,2'-oxybis(1-Chloropropane)

Concen: 30.380 ng

RT: 7.23 min Scan# 832

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

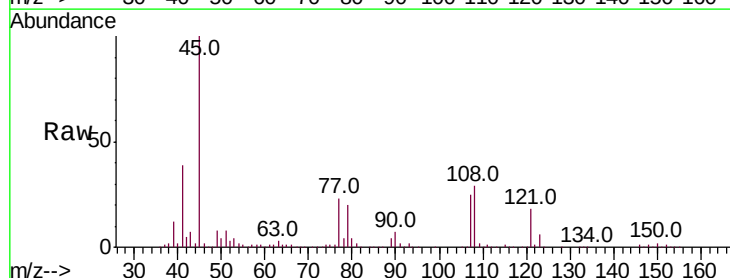
Tgt Ion: 45 Resp: 610364

Ion Ratio Lower Upper

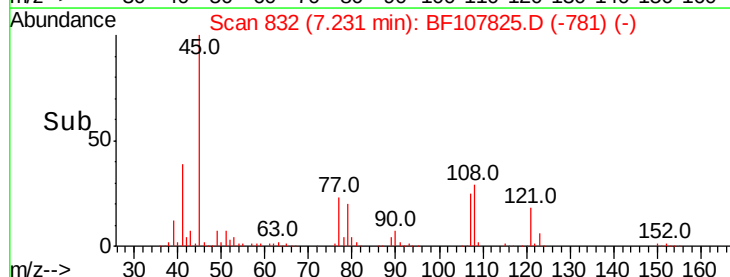
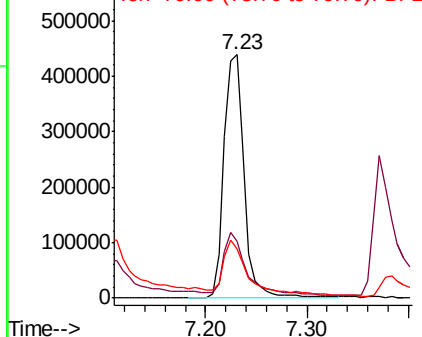
45 100

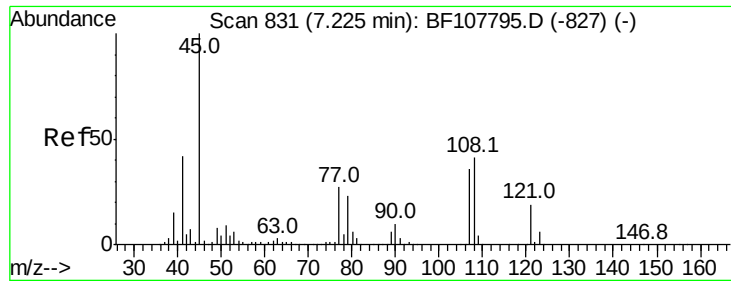
77 23.1 0.0 32.9

79 20.3 0.0 29.6



Abundance Ion 45.00 (44.70 to 45.70): BF1
Ion 77.00 (76.70 to 77.70): BF1
Ion 79.00 (78.70 to 79.70): BF1





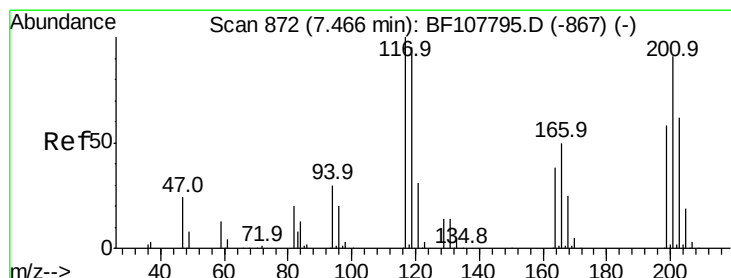
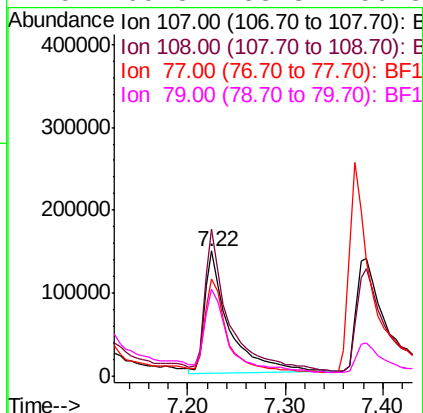
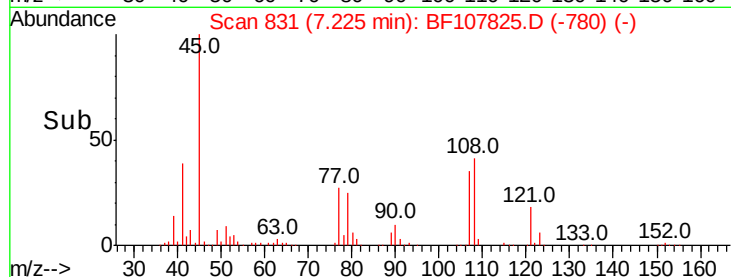
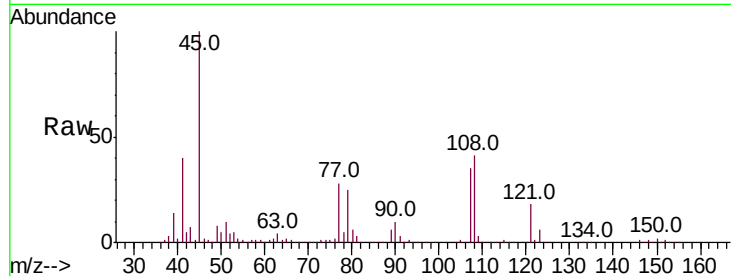
#17
2-Methylphenol
Concen: 27.684 ng
RT: 7.22 min Scan# 831
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Resp Lower	Upper
107	100		
108	117.3	91.7	137.5
77	78.1	33.8	50.8#
79	69.8	33.8	50.8#

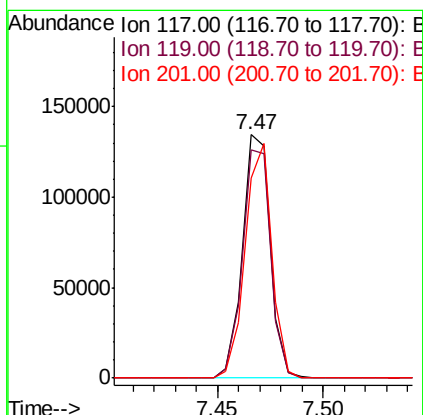
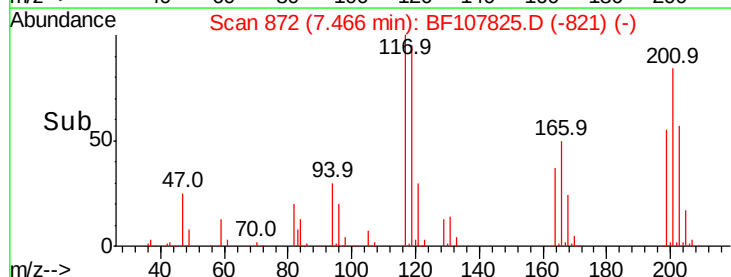
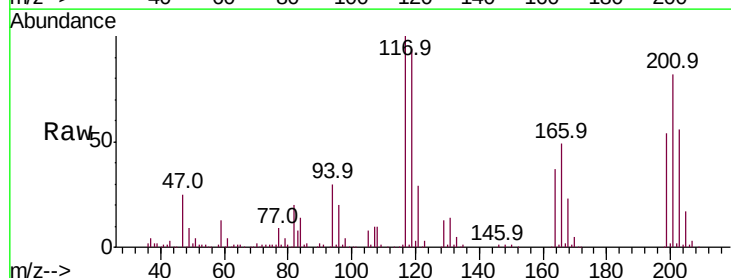
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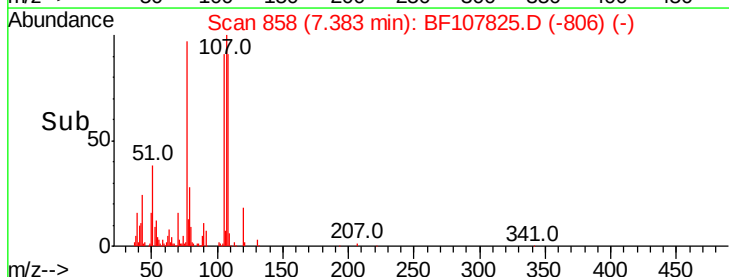
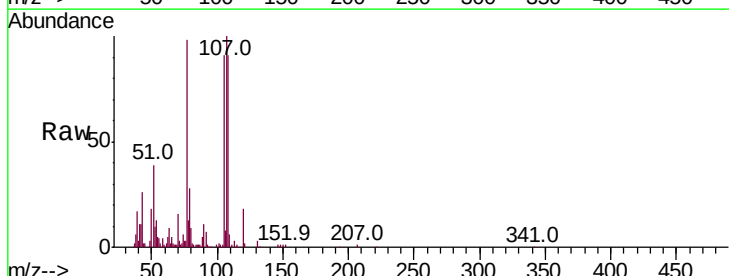
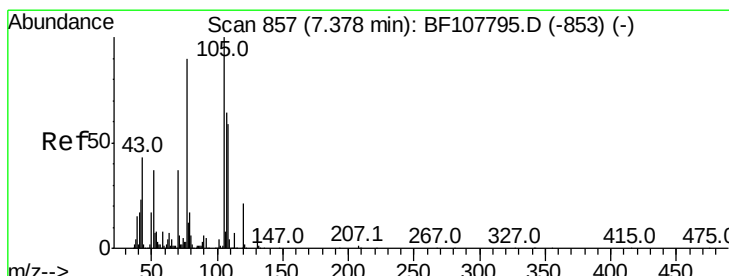
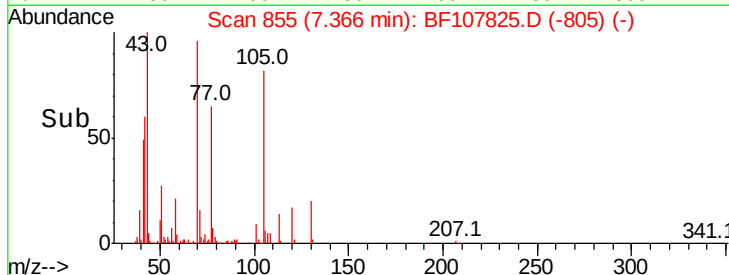
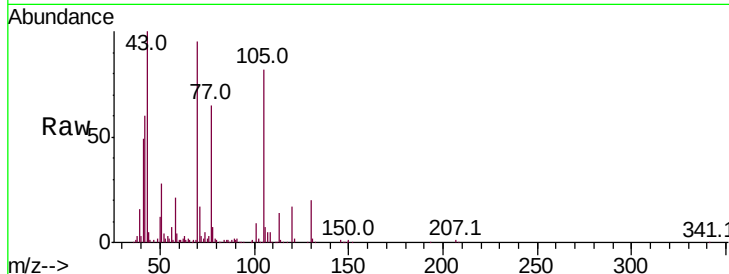
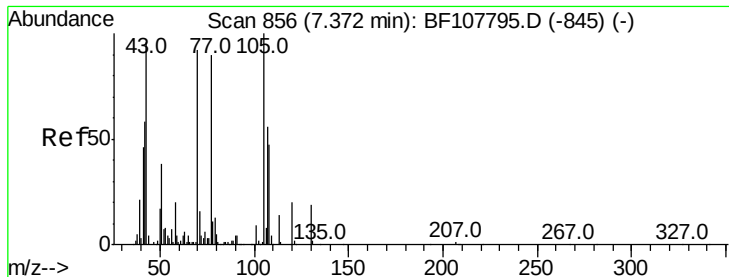
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#18
Hexachloroethane
Concen: 23.280 ng
RT: 7.47 min Scan# 872
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

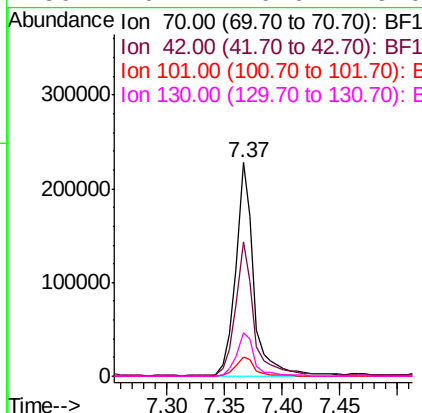
Tgt Ion	Ratio	Resp Lower	Upper
117	100		
119	93.7	75.8	113.8
201	82.4	75.7	113.5





#19
n-Nitroso-di-n-propylamine
Concen: 29.922 ng
RT: 7.37 min Scan# 855
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tot Ion	70	Resp	250130
Ion Ratio	Lower	Upper	
70	100		
42	63.2	47.5	71.3
101	9.2	7.4	11.2
130	20.7	16.6	25.0



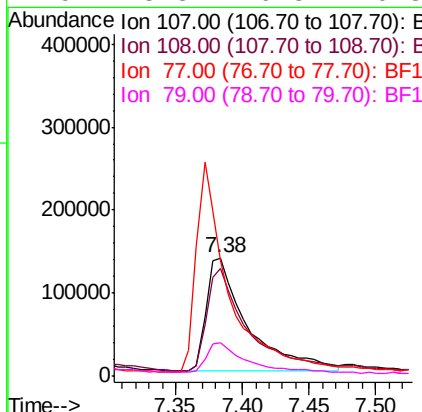
Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

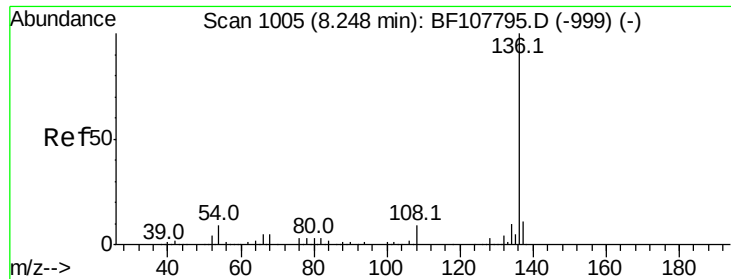
Manual Integrations
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#20
3+4-Methylphenols
Concen: 26.241 ng
RT: 7.38 min Scan# 858
Delta R.T. 0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	107	Resp	298704
Ion Ratio	Lower	Upper	
107	100		
108	90.7	68.2	108.2
77	97.7	26.7	66.7#
79	28.3	6.3	46.3





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

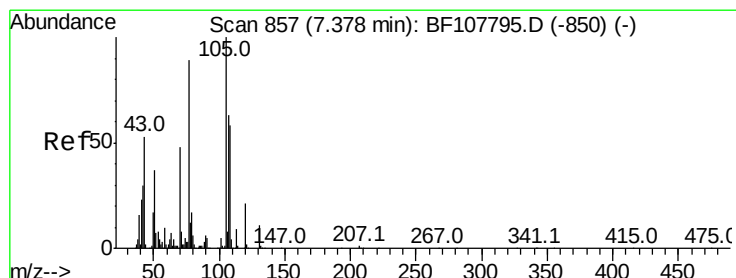
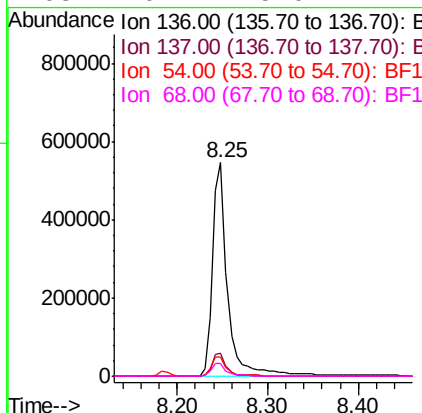
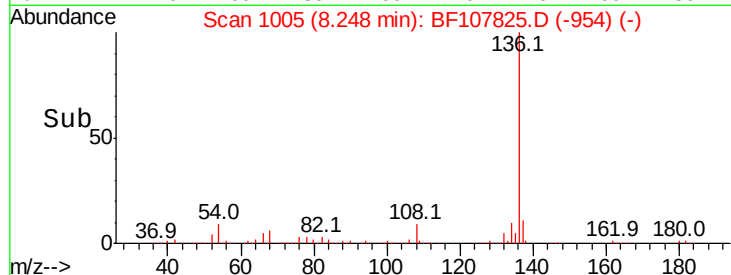
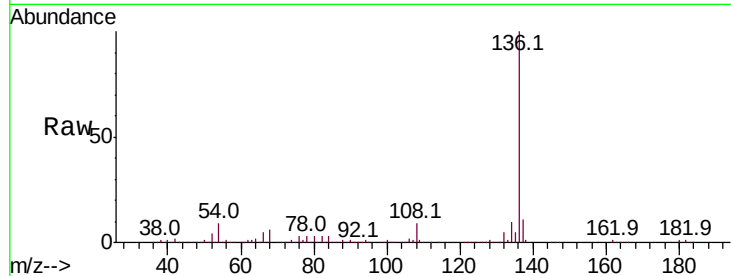
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.1	8.9	13.3	
54	8.8	6.6	9.8	
68	6.2	5.0	7.4	

Manual Integrations
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#22

Acetophenone

Concen: 33.458 ng

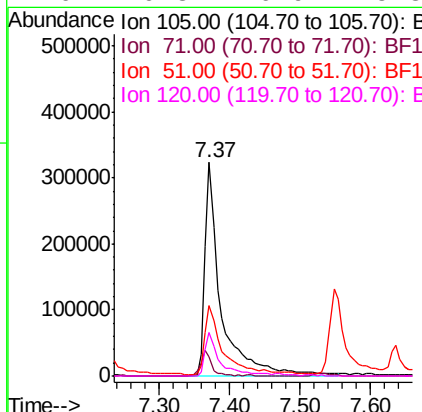
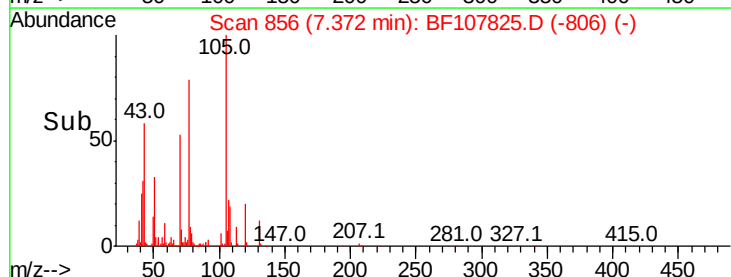
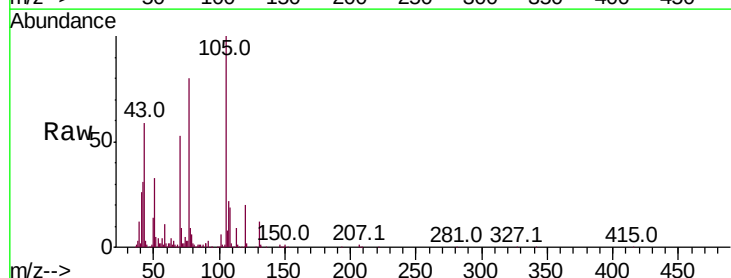
RT: 7.37 min Scan# 856

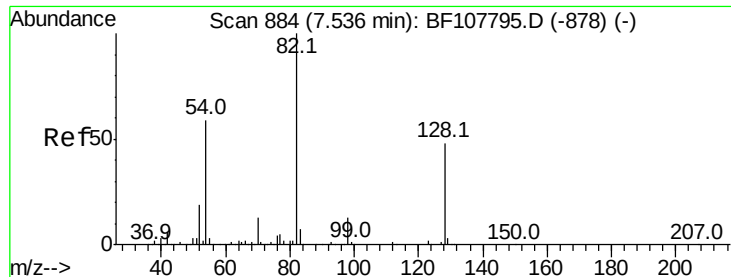
Delta R.T. -0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
105	100			
71	8.7	4.4	6.6#	
51	33.3	22.3	33.5	
120	20.3	16.9	25.3	





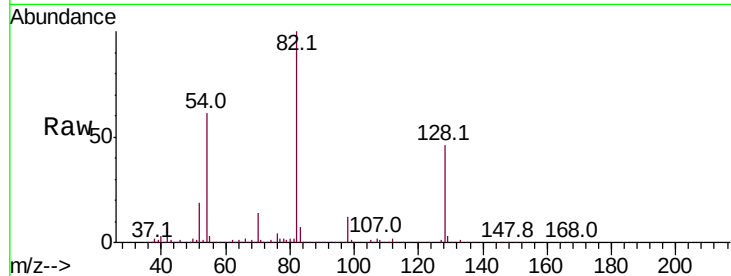
#23
Nitrobenzene-d5
Concen: 66.224 ng
RT: 7.53 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
82	100		
128	46.0	36.1	54.1
54	60.6	41.4	62.2

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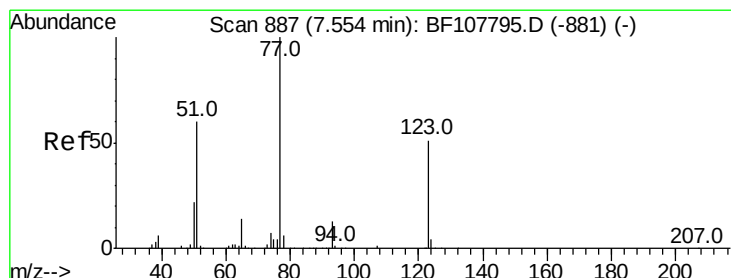
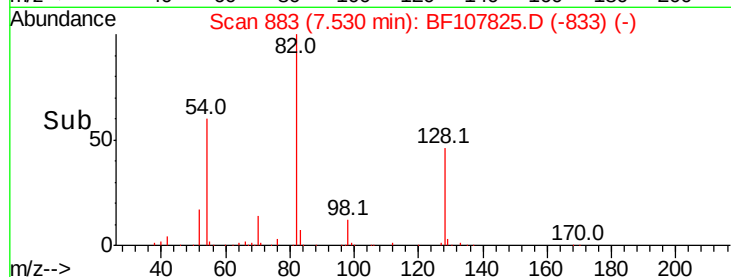
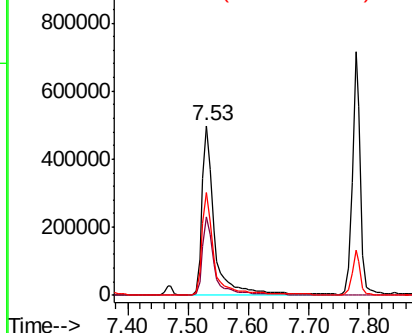


Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#24
Nitrobenzene
Concen: 28.852 ng
RT: 7.55 min Scan# 886
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

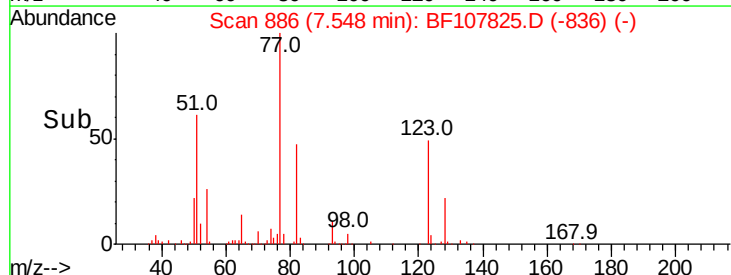
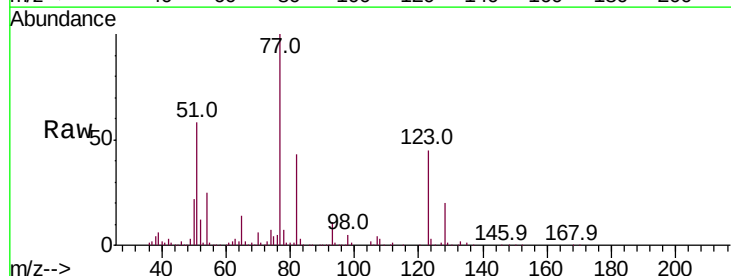
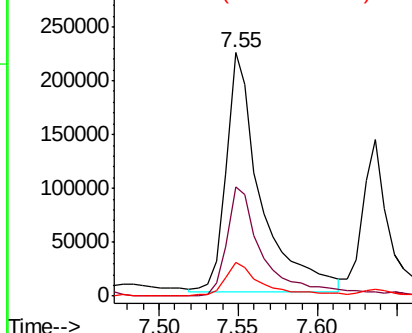
Tgt Ion	Ratio	Lower	Upper
77	100		
123	44.8	37.9	56.9
65	13.9	11.0	16.4

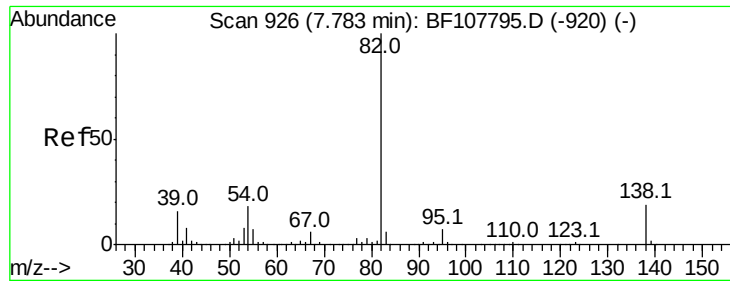
Abundance

Ion 77.00 (76.70 to 77.70): BF1

Ion 123.00 (122.70 to 123.70): BF1

Ion 65.00 (64.70 to 65.70): BF1





#25

Isophorone

Concen: 35.970 ng

RT: 7.78 min Scan# 925

Delta R.T. -0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

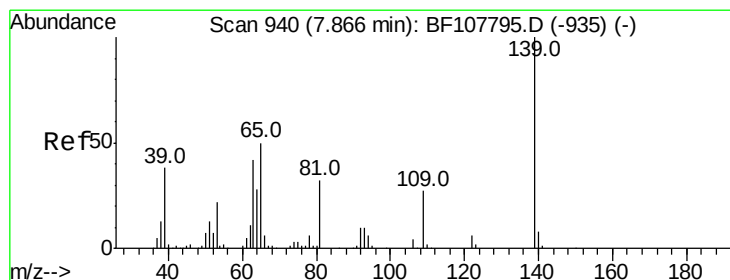
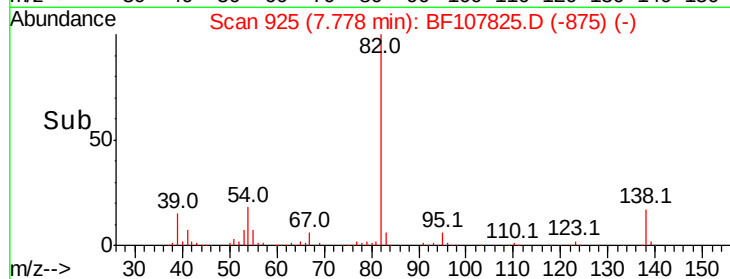
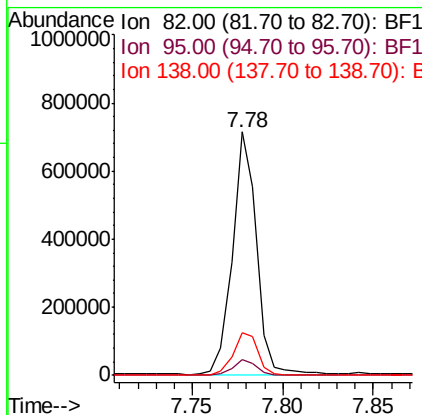
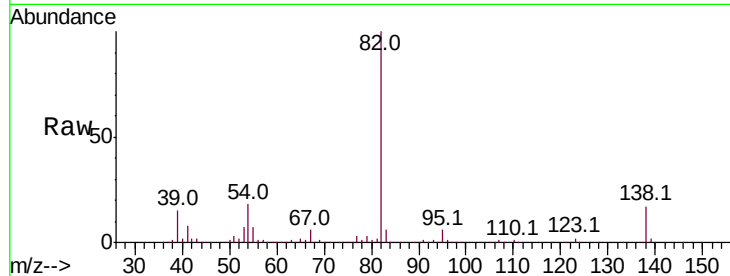
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	82	Resp:	653727
Ion Ratio	Lower	Upper	
82	100		
95	6.3	5.2	7.8
138	17.4	14.9	22.3

Manual Integrations
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#26

2-Nitrophenol

Concen: 28.222 ng

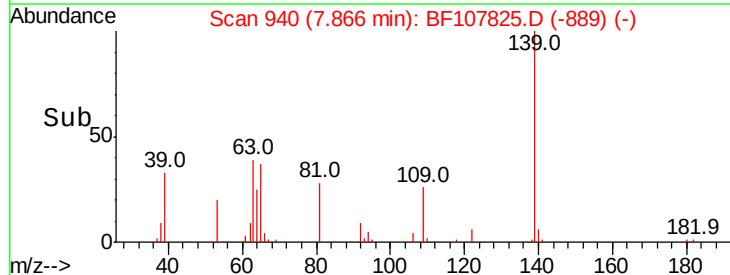
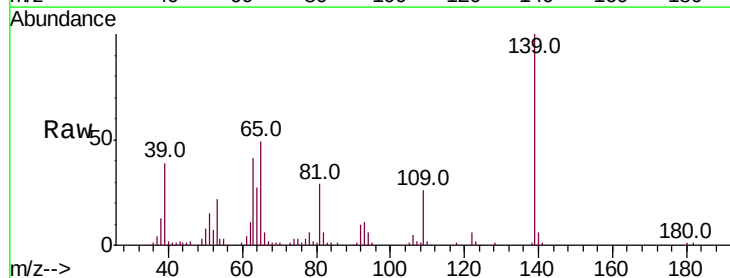
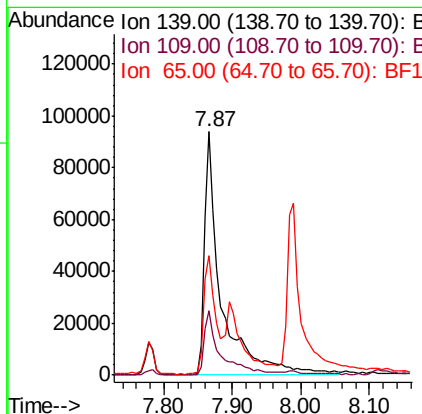
RT: 7.87 min Scan# 940

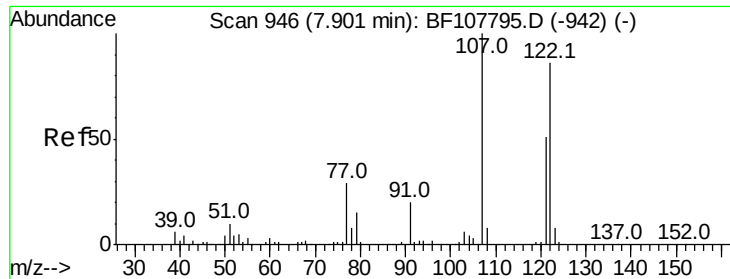
Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	139	Resp:	164435
Ion Ratio	Lower	Upper	
139	100		
109	26.3	22.7	34.1
65	49.0	40.5	60.7





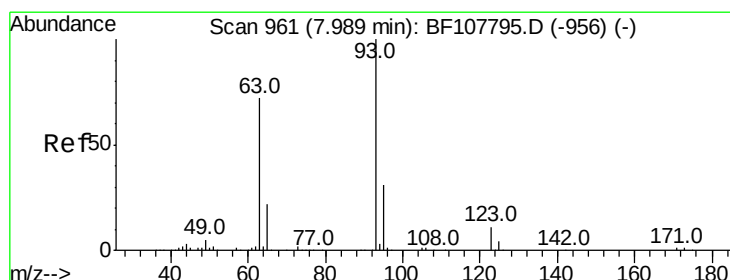
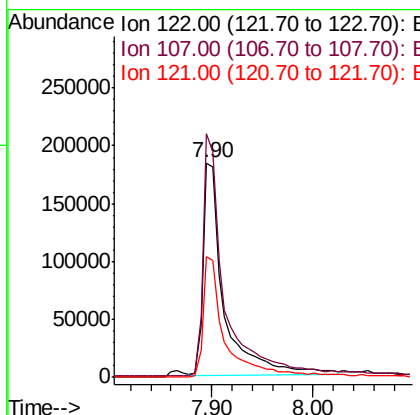
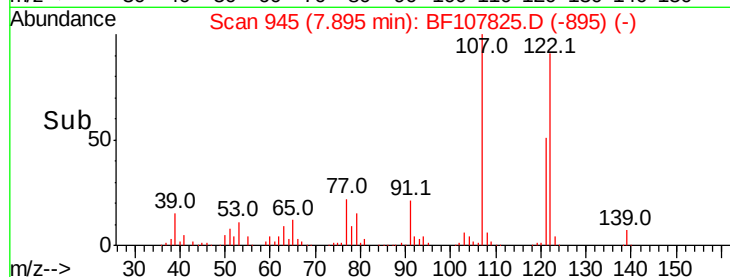
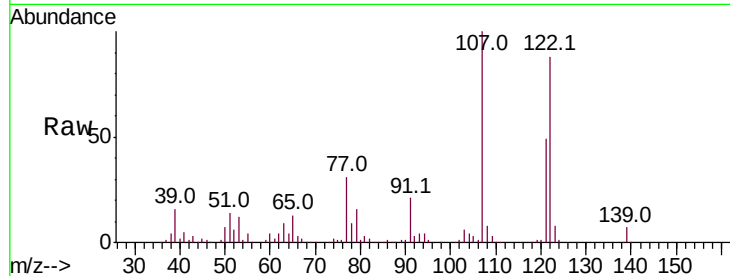
#27
2,4-Dimethylphenol
Concen: 34.334 ng
RT: 7.90 min Scan# 945
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
122	100		
107	113.4	91.2	136.8
121	56.1	47.2	70.8

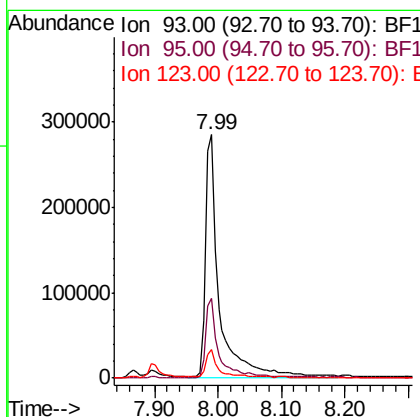
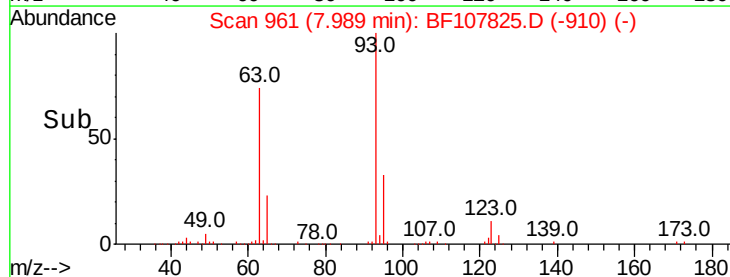
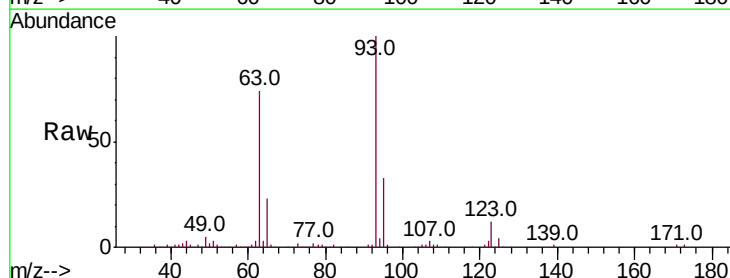
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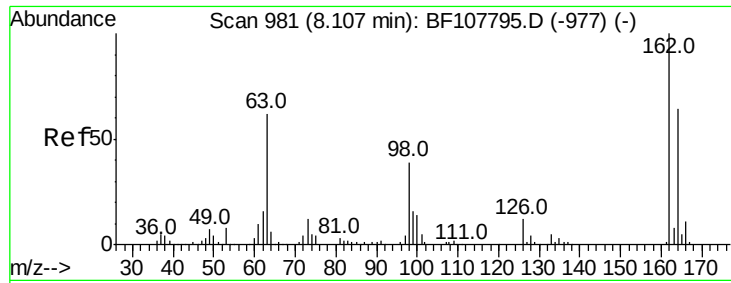
Sohil
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#28
bis(2-Chloroethoxy)methane
Concen: 35.678 ng
RT: 7.99 min Scan# 961
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
93	100		
95	32.8	26.3	39.5
123	11.8	9.8	14.6





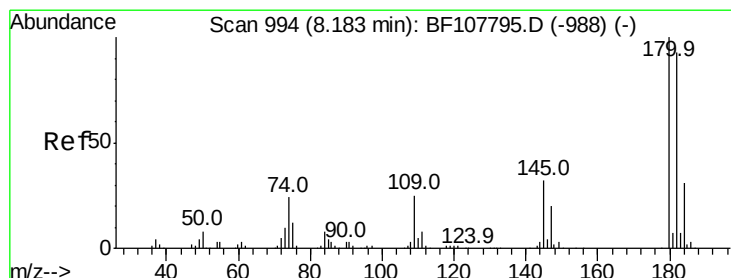
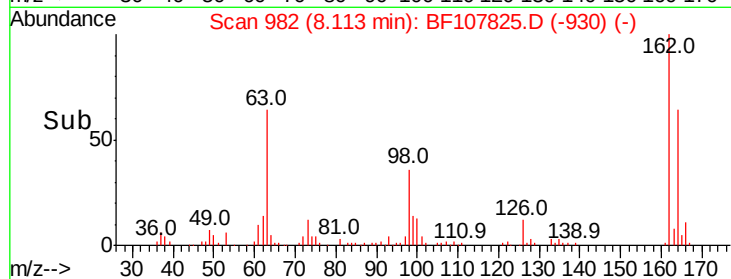
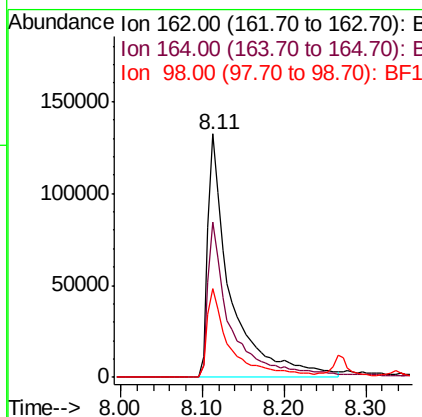
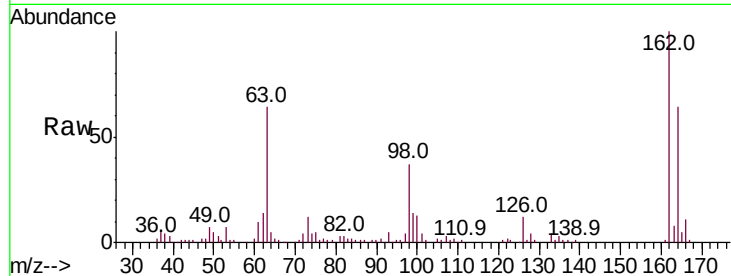
#29
2,4-Dichlorophenol
Concen: 28.941 ng
RT: 8.11 min Scan# 982
Delta R.T. 0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Resp Lower	Upper
162	100		
164	63.5	42.7	82.7
98	36.6	18.1	58.1

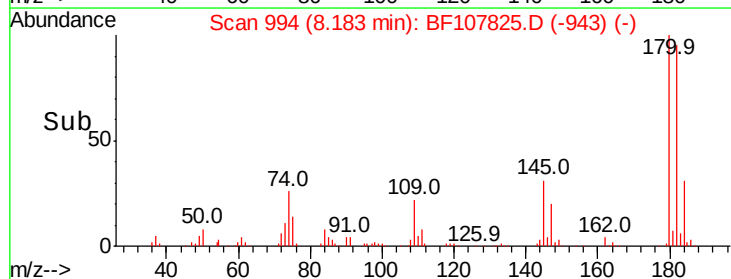
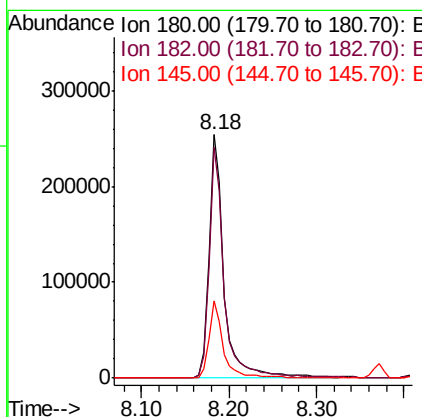
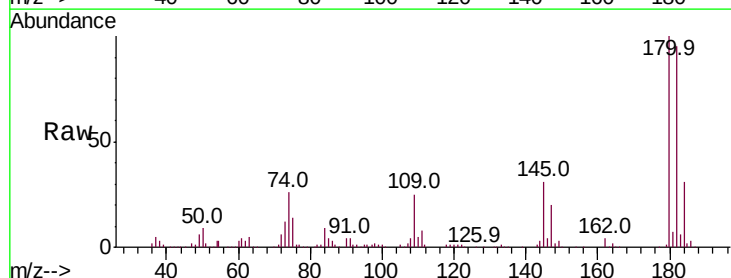
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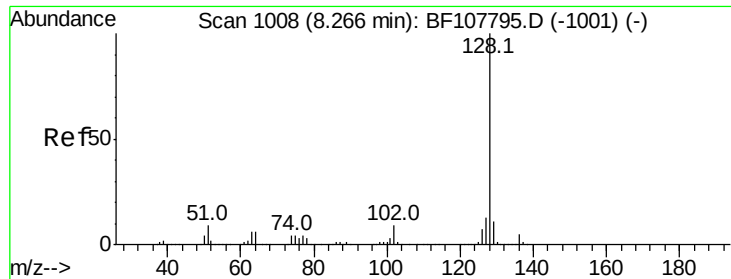
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#30
1,2,4-Trichlorobenzene
Concen: 30.017 ng
RT: 8.18 min Scan# 994
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp Lower	Upper
180	100		
182	95.0	76.8	115.2
145	31.5	26.5	39.7





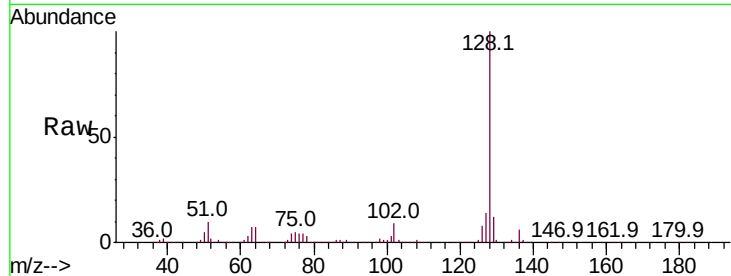
#31
Naphthalene
Concen: 32.626 ng
RT: 8.27 min Scan# 1008
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Resp	Lower	Upper
128	100			
129	11.8	8.8	13.2	
127	13.5	10.9	16.3	

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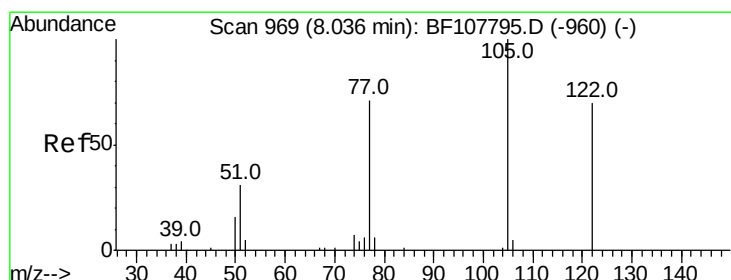
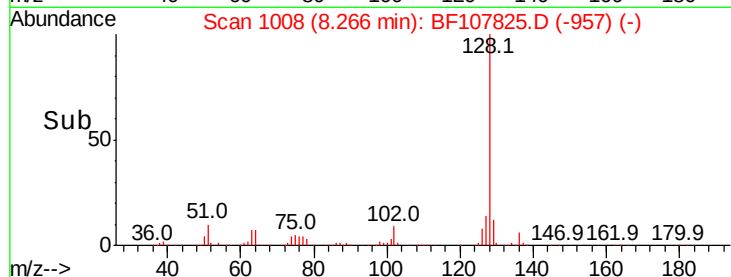
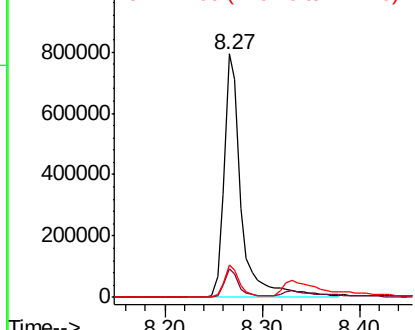


Abundance

Ion 128.00 (127.70 to 128.70): E

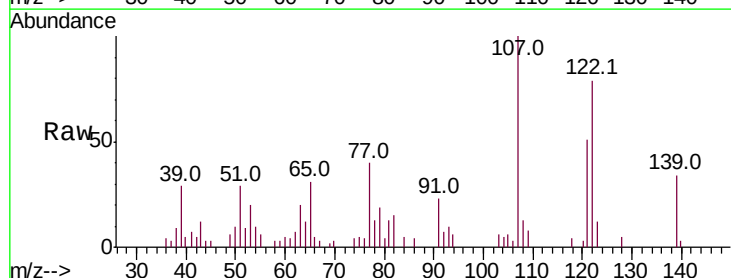
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32
Benzoic acid
Concen: 8.900 ng m
RT: 7.96 min Scan# 956
Delta R.T. -0.08 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
122	100			
105	8.2	101.1	141.1#	
77	50.4	70.7	110.7#	

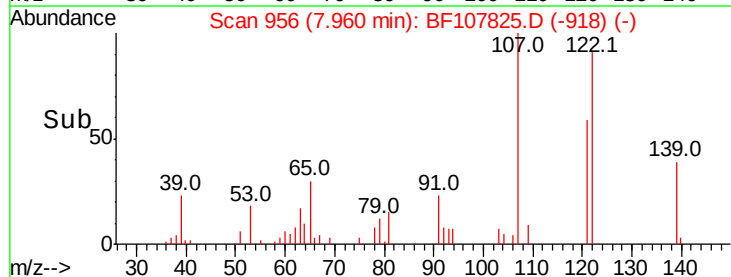
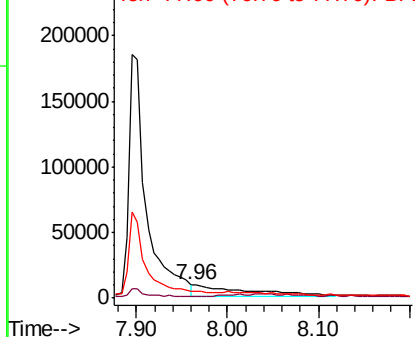


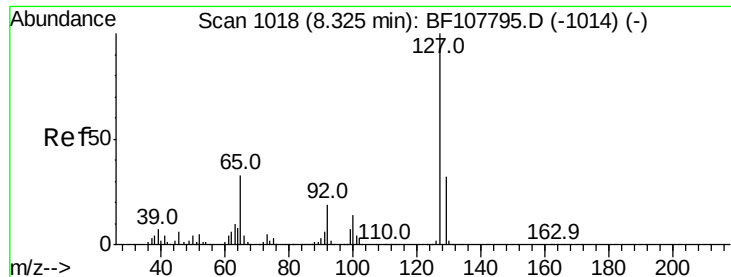
Abundance

Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1





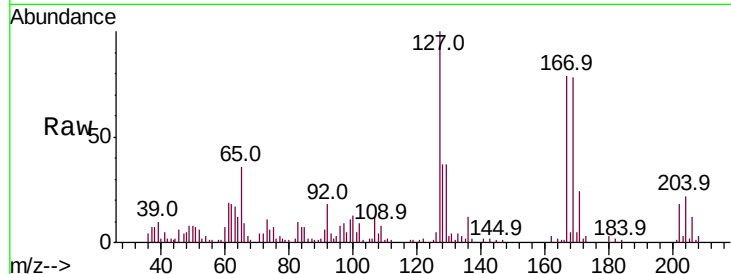
#33
 4-Chloroaniline
 Concen: 14.413 ng
 RT: 8.33 min Scan# 1019
 Delta R.T. 0.01 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Resp Lower	Upper
127	100		
129	36.5	25.9	38.9
65	36.2	25.0	37.4
92	18.4	15.2	22.8

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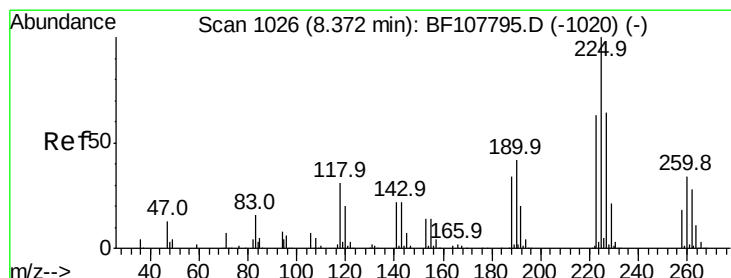
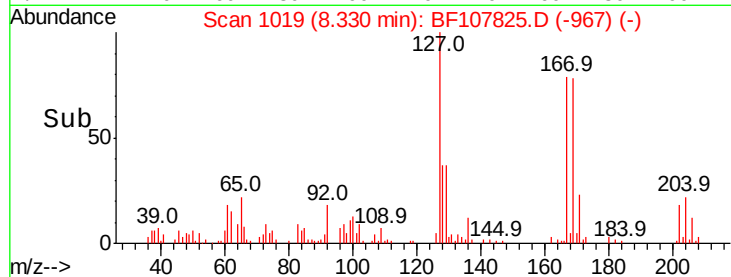
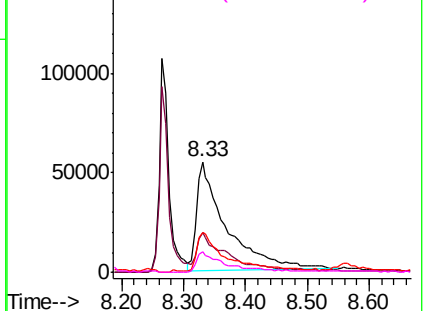
Abundance

Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 65.00 (64.70 to 65.70): BF1

Ion 92.00 (91.70 to 92.70): BF1



#34
 Hexachlorobutadiene
 Concen: 28.345 ng
 RT: 8.37 min Scan# 1026
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

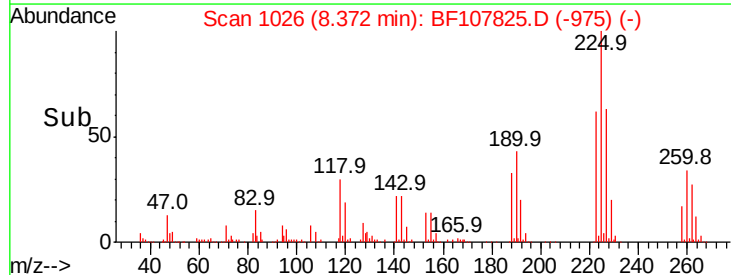
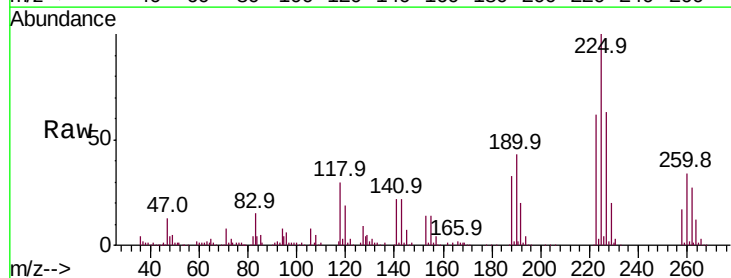
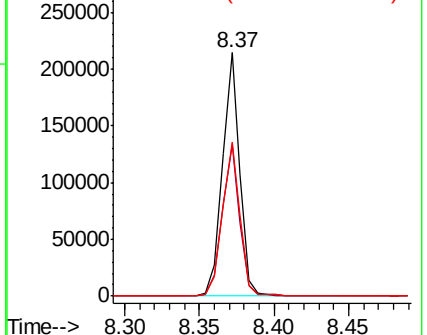
Tgt Ion	Ratio	Resp Lower	Upper
225	100		
223	62.1	50.6	76.0
227	63.3	51.9	77.9

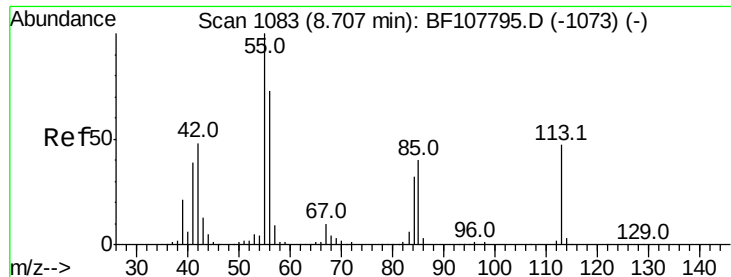
Abundance

Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#35

Caprolactam

Concen: 23.656 ng

RT: 8.68 min Scan# 1078

Delta R.T. -0.03 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:113 Resp: 62836

Ion Ratio Lower Upper

113 100

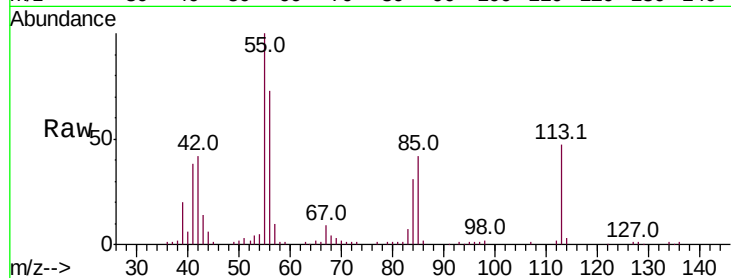
55 213.5 163.3 203.3#

56 156.8 115.7 155.7#

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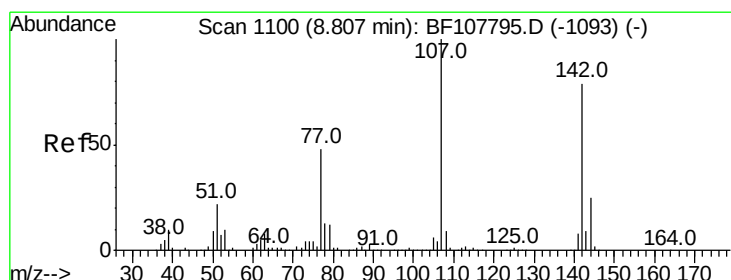
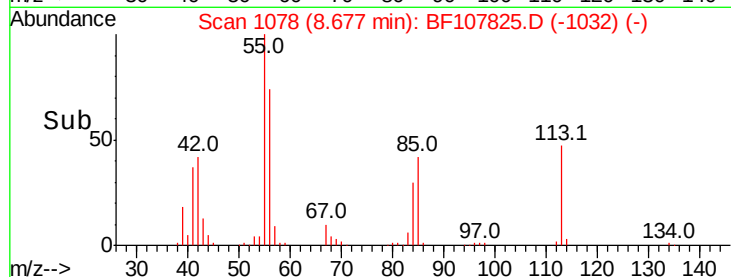
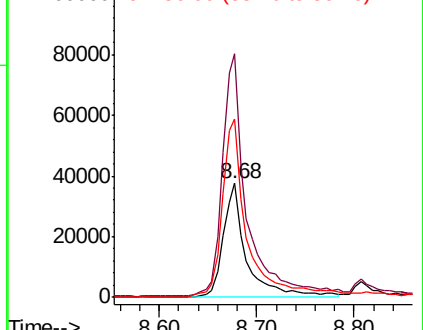
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Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BF1

Ion 56.00 (55.70 to 56.70): BF1



#36

4-Chloro-3-methylphenol

Concen: 28.466 ng

RT: 8.81 min Scan# 1100

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

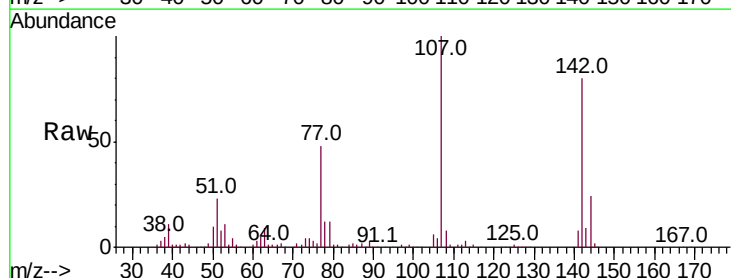
Tgt Ion:107 Resp: 272786

Ion Ratio Lower Upper

107 100

144 24.1 20.5 30.7

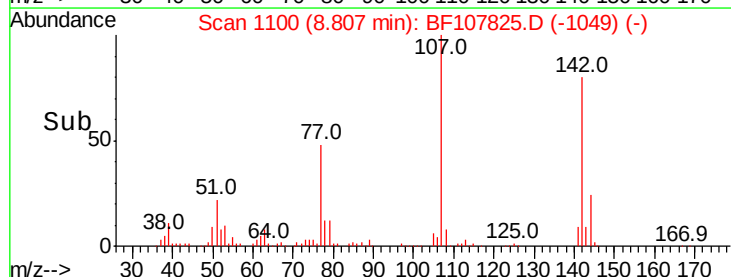
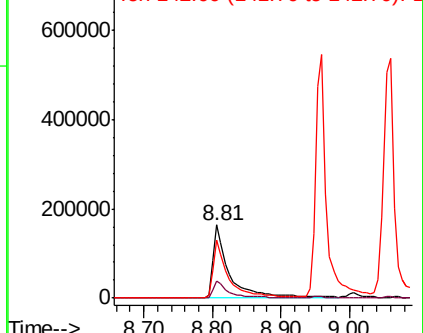
142 79.6 62.0 93.0

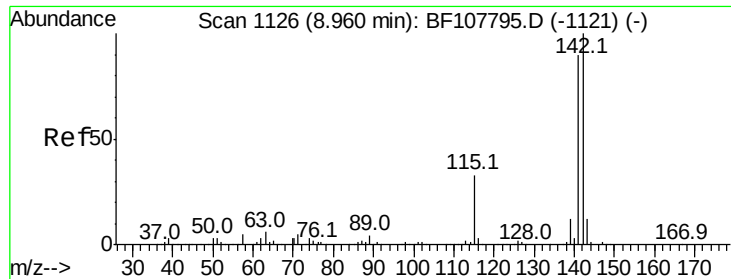


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 144.00 (143.70 to 144.70): E

Ion 142.00 (141.70 to 142.70): E





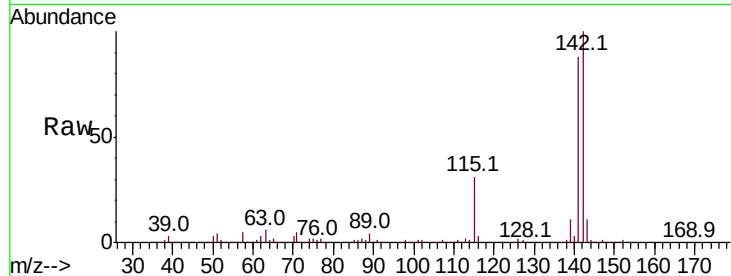
#37
2-Methylnaphthalene
Concen: 32.388 ng
RT: 8.96 min Scan# 1126
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.2	70.8	106.2
115	31.0	26.1	39.1

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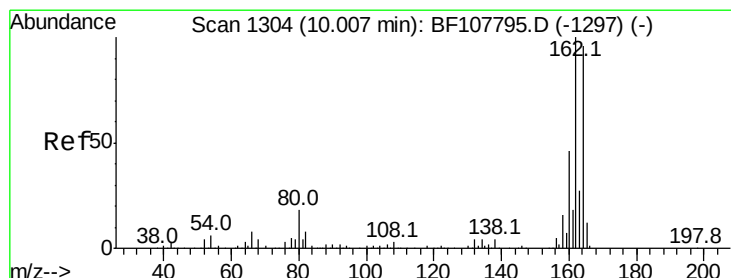
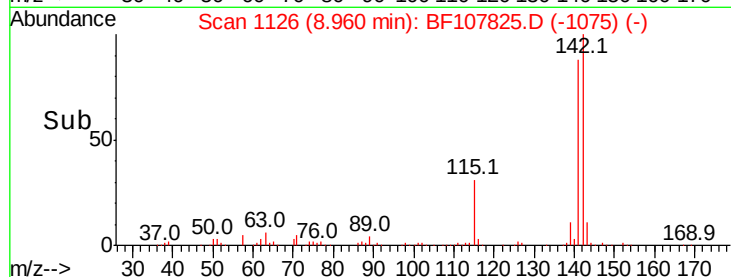
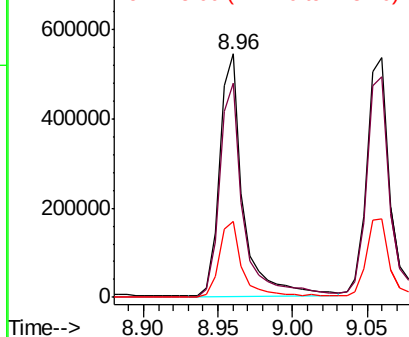


Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.00 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

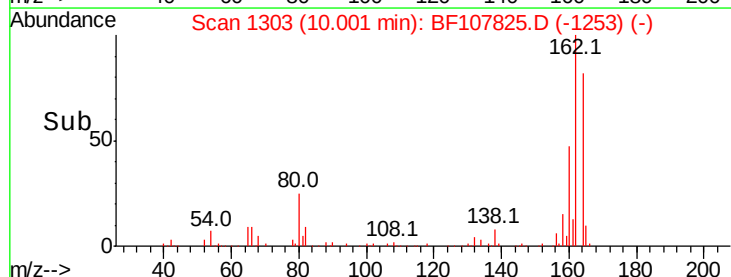
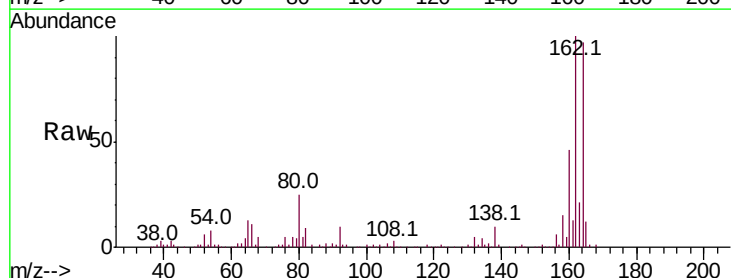
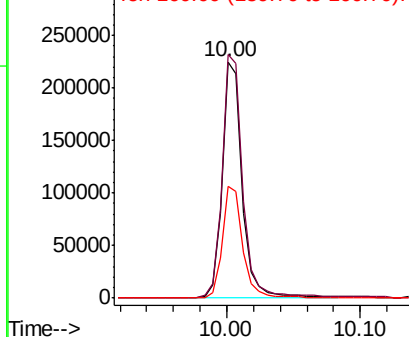
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.0	86.1	129.1
160	47.4	38.3	57.5

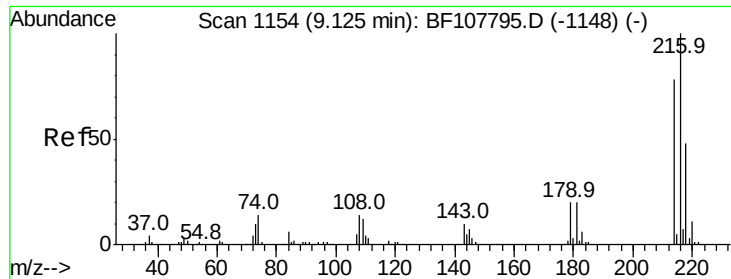
Abundance

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





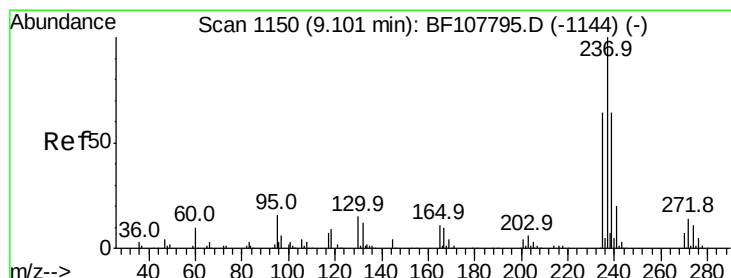
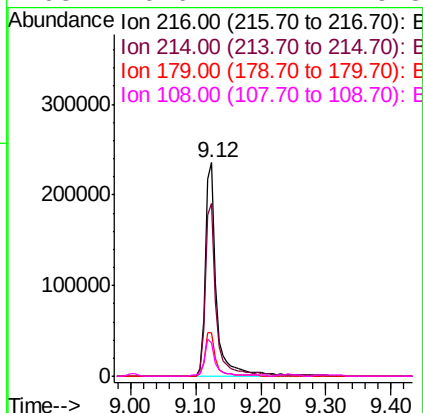
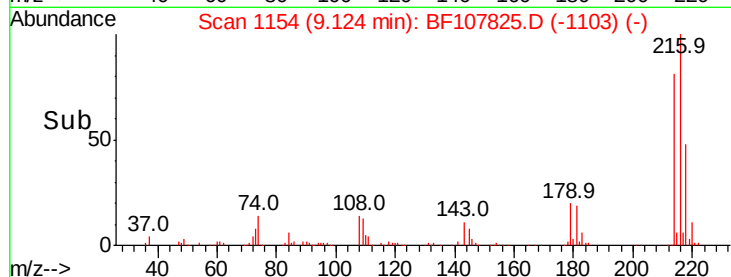
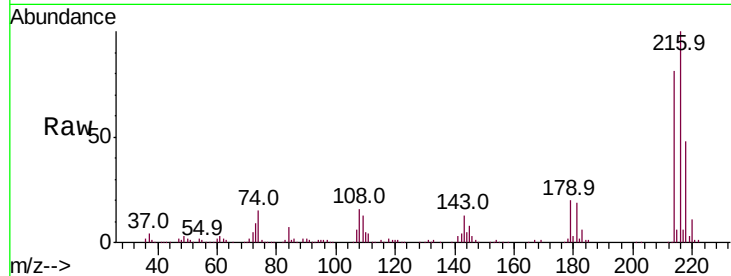
#39
 1,2,4,5-Tetrachlorobenzene
 Concen: 34.324 ng
 RT: 9.12 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Resp Lower	Upper
216	100		
214	79.5	63.0	94.4
179	20.5	18.1	27.1
108	16.6	17.2	25.8#

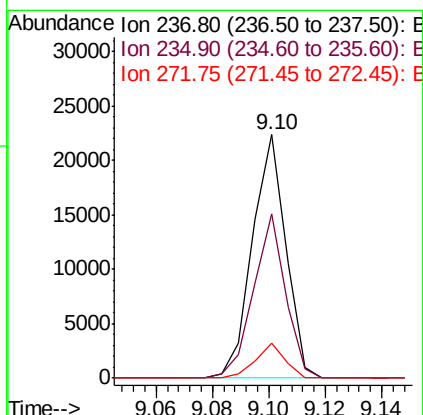
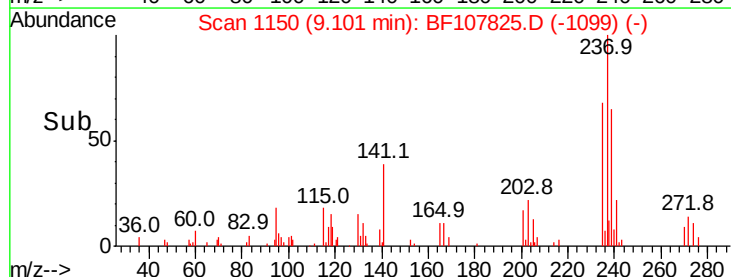
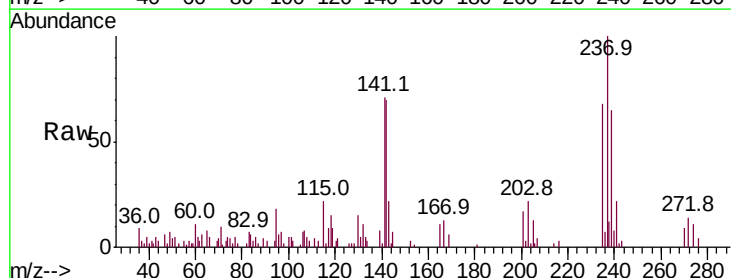
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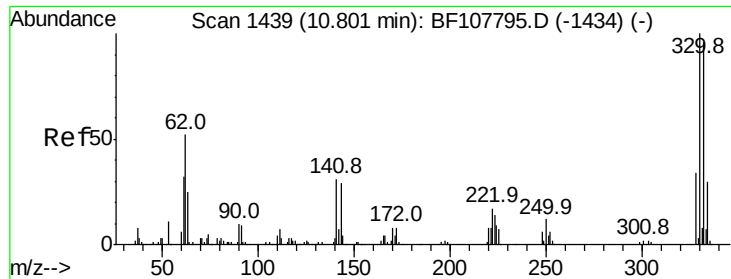
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#40
 Hexachlorocyclopentadiene
 Concen: 12.179 ng
 RT: 9.10 min Scan# 1150
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp Lower	Upper
237	100		
235	67.6	44.8	84.8
272	14.2	0.0	33.3





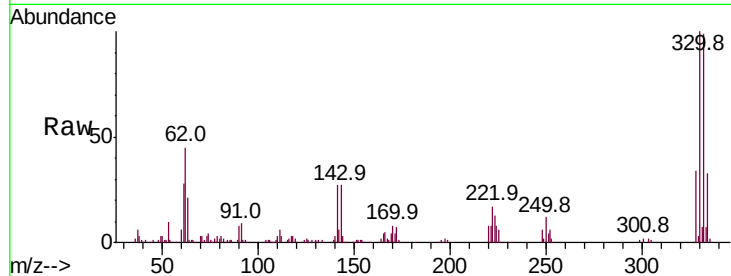
#41
 2,4,6-Tribromophenol
 Concen: 74.396 ng
 RT: 10.80 min Scan# 1439
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Resp	Lower	Upper
330	100	241413		
332	97.7	77.0	115.6	
141	29.0	29.9	44.9#	

Manual Integrations
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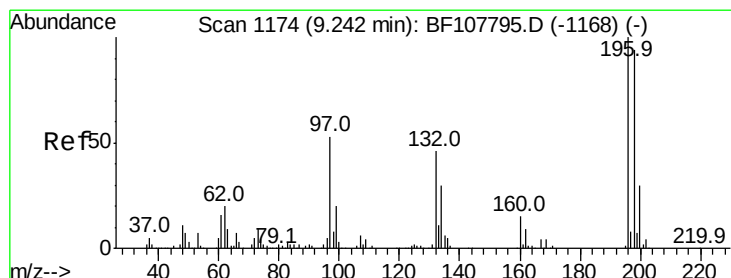
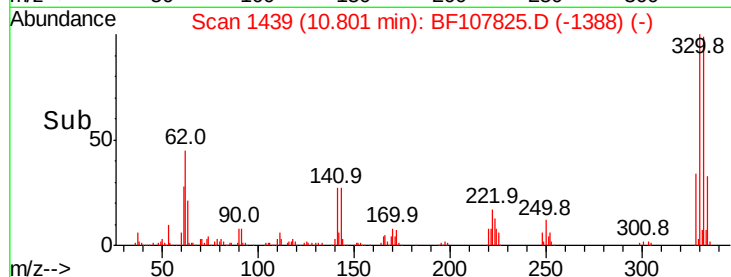
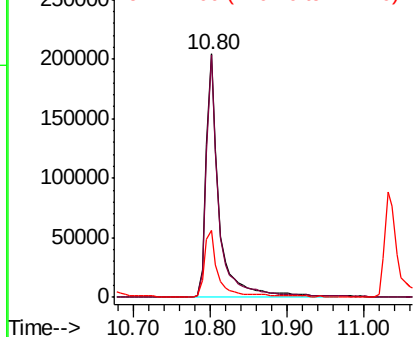


Abundance

Ion 329.80 (329.50 to 330.50): E

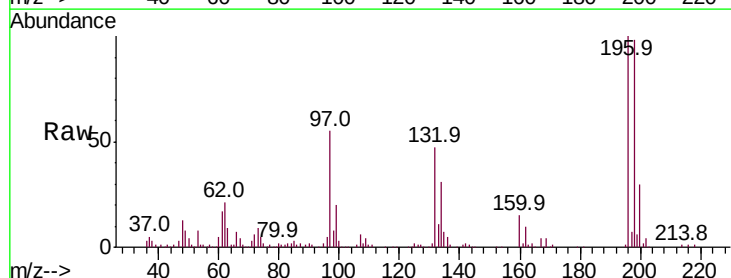
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#42
 2,4,6-Trichlorophenol
 Concen: 33.939 ng
 RT: 9.24 min Scan# 1174
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
196	100	152769		
198	97.6	75.7	113.5	
200	30.2	24.5	36.7	

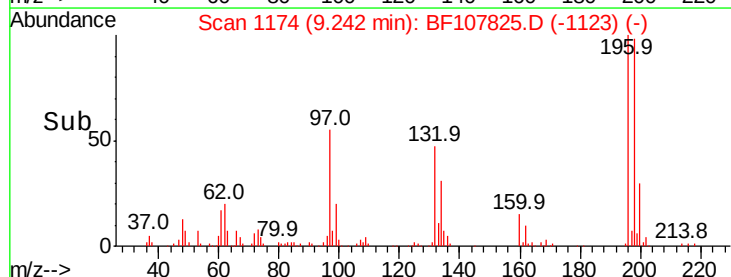
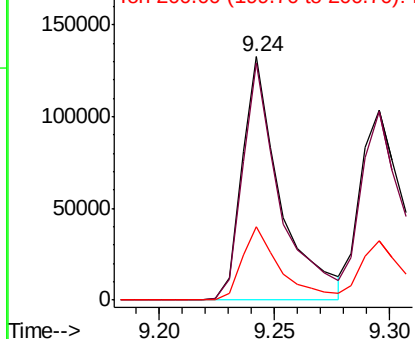


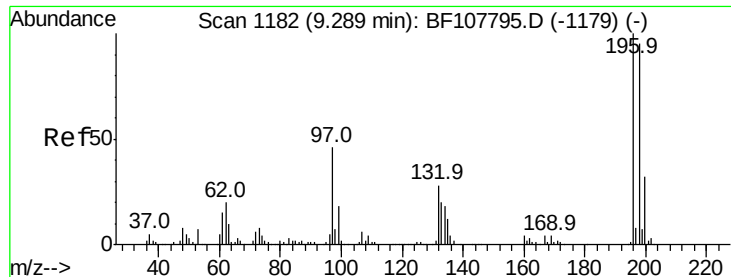
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 200.00 (199.70 to 200.70): E





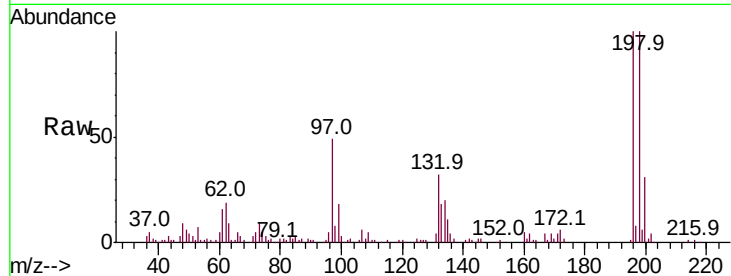
#43
2,4,5-Trichlorophenol
Concen: 30.771 ng
RT: 9.30 min Scan# 1183
Delta R.T. 0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Resp	Lower	Upper
196	100	166749		
198	99.6	74.6	112.0	
97	48.6	42.9	64.3	
132	31.6	26.3	39.5	

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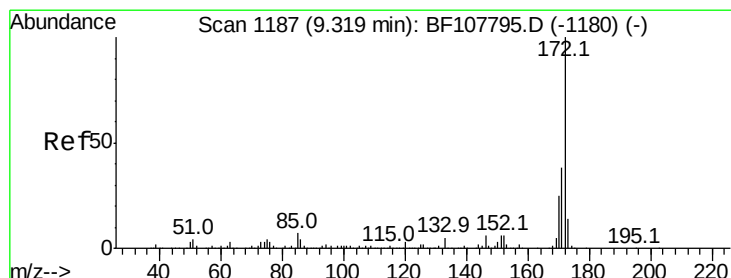
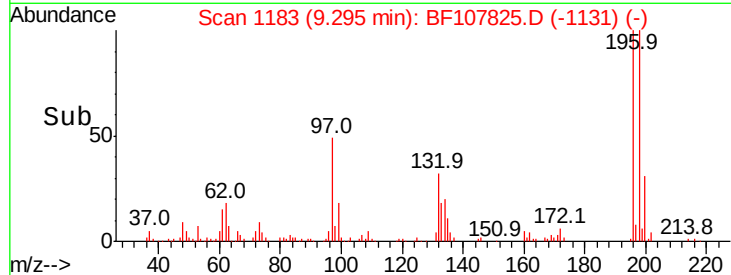
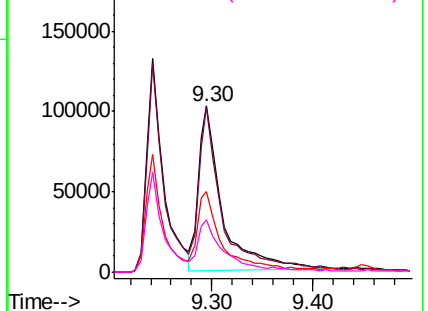
Abundance

Ion 196.00 (195.70 to 196.70): E

Ion 198.00 (197.70 to 198.70): E

Ion 97.00 (96.70 to 97.70): BF1

Ion 132.00 (131.70 to 132.70): E



#44
2-Fluorobiphenyl
Concen: 67.317 ng
RT: 9.32 min Scan# 1187
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

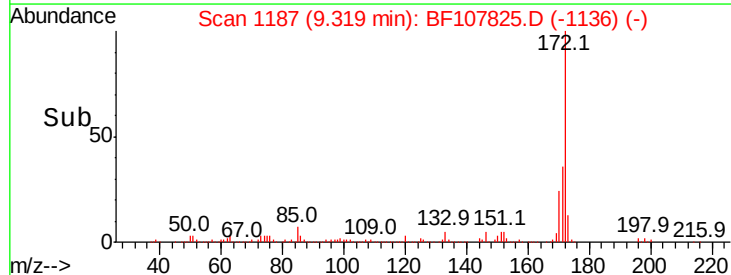
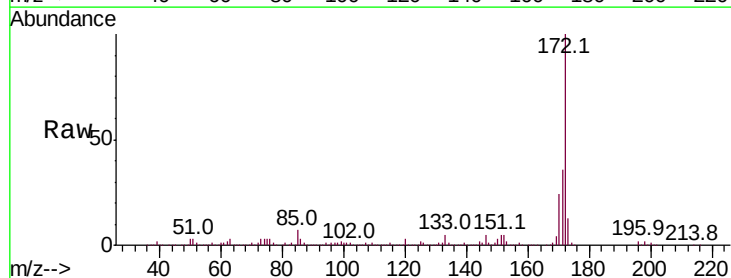
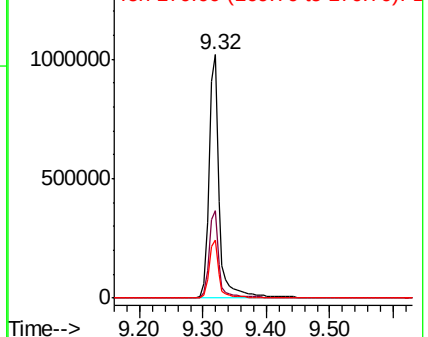
Tgt Ion	Ratio	Resp	Lower	Upper
172	100	1153650		
171	36.0	29.7	44.5	
170	24.0	19.6	29.4	

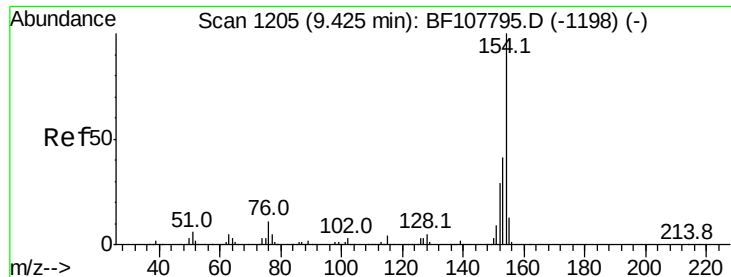
Abundance

Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#45

1,1'-Biphenyl

Concen: 34.229 ng

RT: 9.42 min Scan# 1204

Delta R.T. -0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

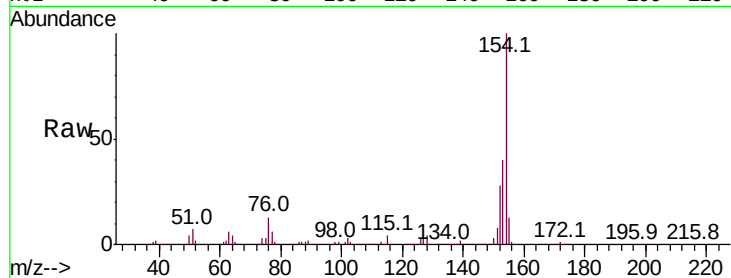
ClientSampleId :

TOPSOIL-072618MSD

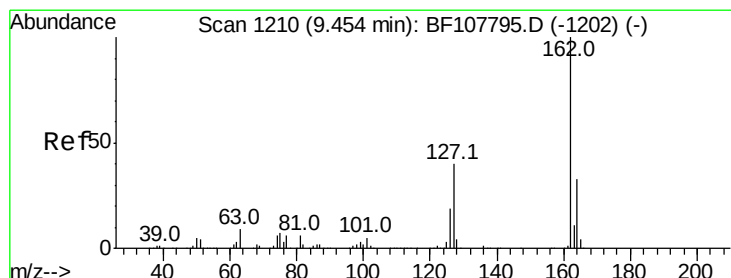
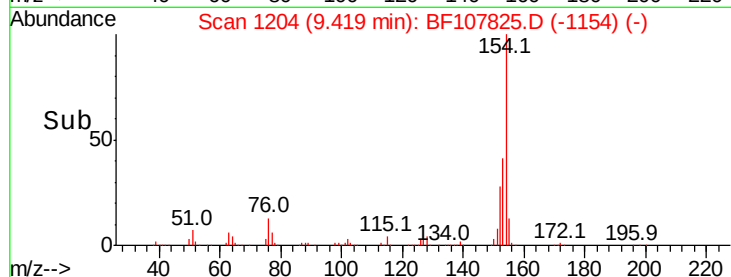
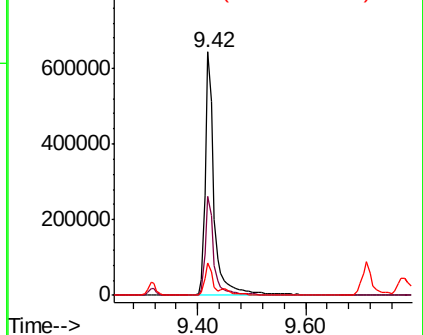
Tot Ion:	154	Resp:	743909
Ion Ratio	Lower	Upper	
154	100		
153	40.5	21.3	61.3
76	13.3	0.0	34.0

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



#46

2-Chloronaphthalene

Concen: 32.365 ng

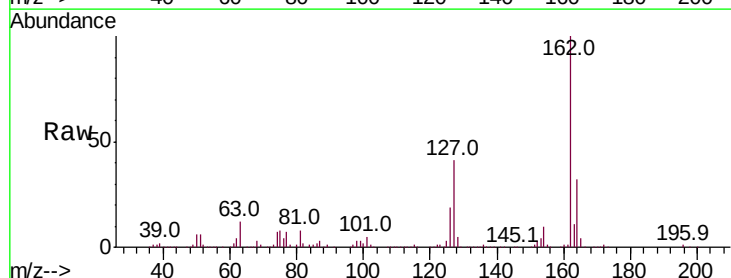
RT: 9.45 min Scan# 1209

Delta R.T. -0.01 min

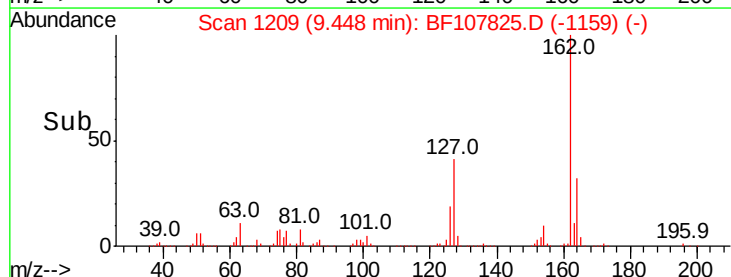
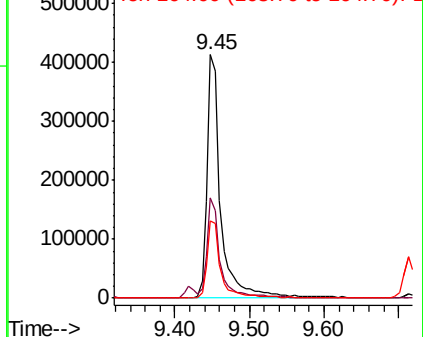
Lab File: BF107825.D

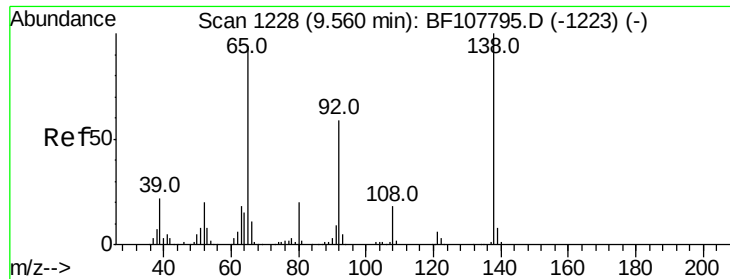
Acq: 31 Jul 2018 2:34

Tgt Ion:	162	Resp:	530431
Ion Ratio	Lower	Upper	
162	100		
127	41.3	33.9	50.9
164	32.0	26.5	39.7



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





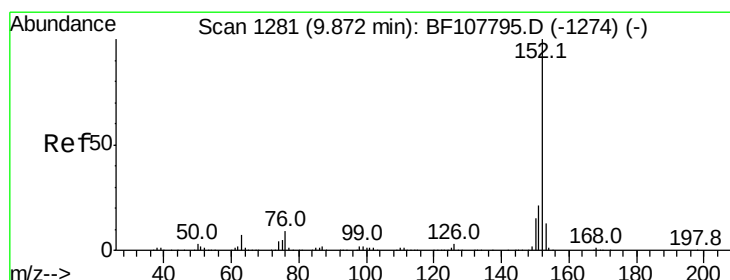
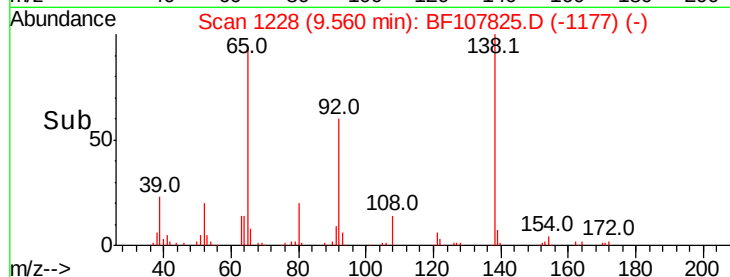
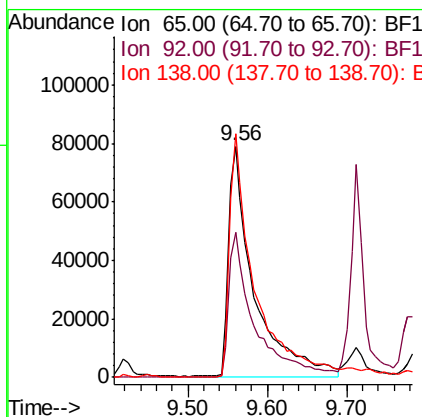
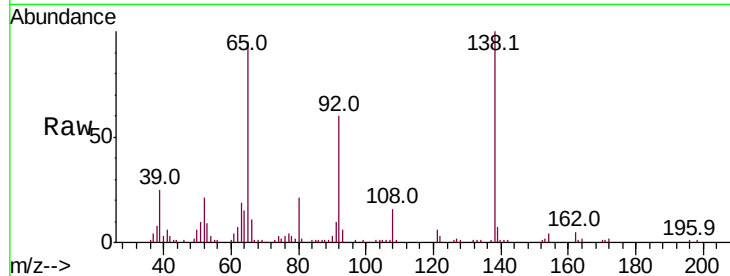
#47
2-Nitroaniline
Concen: 33.382 ng
RT: 9.56 min Scan# 1228
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
65	100		
92	62.8	55.8	83.6
138	105.4	91.2	136.8

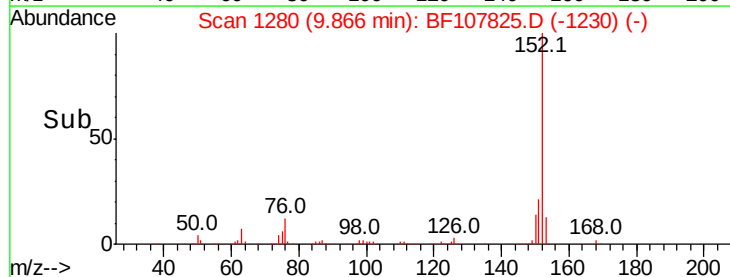
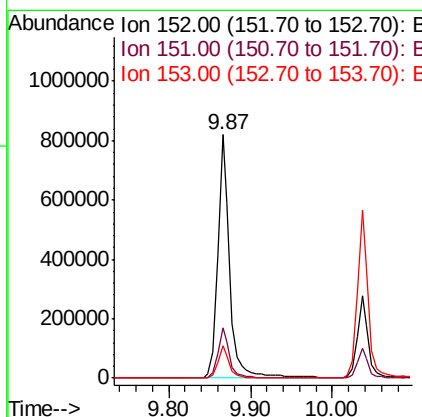
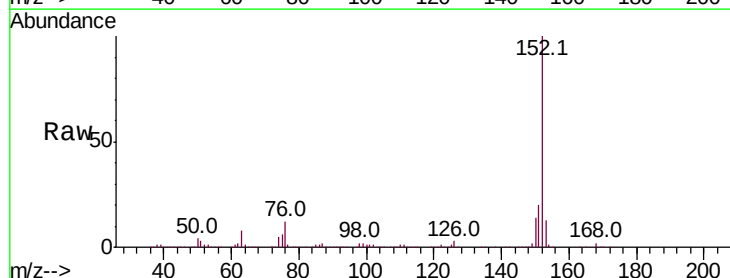
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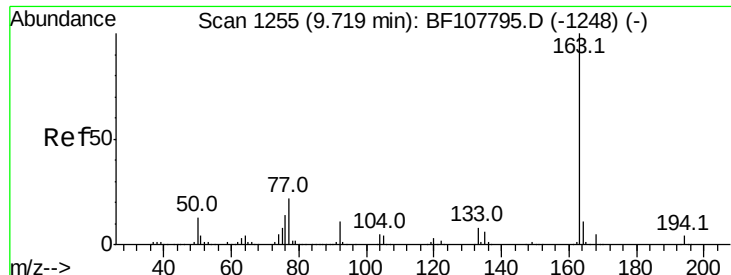
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#48
Acenaphthylene
Concen: 32.931 ng
RT: 9.87 min Scan# 1280
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.3	24.5
153	13.5	10.7	16.1





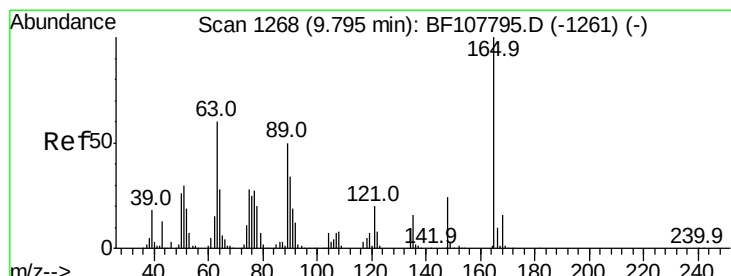
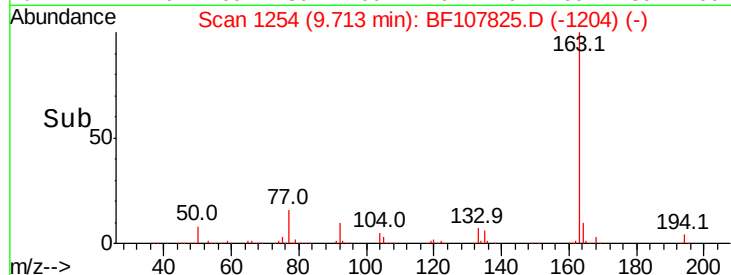
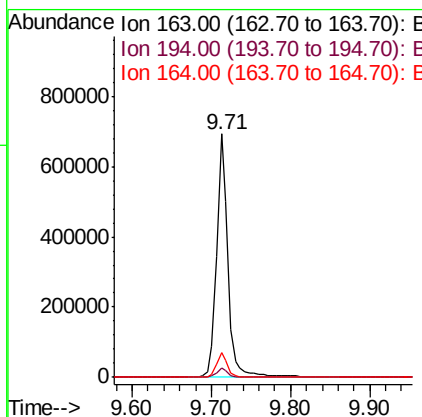
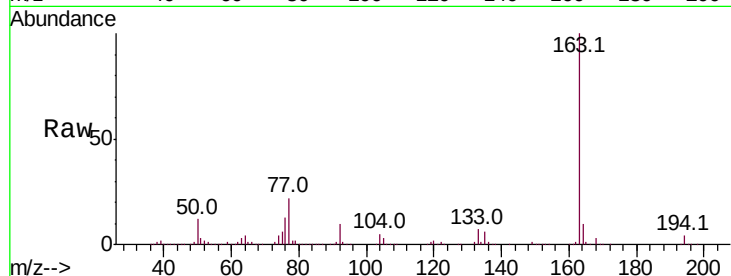
#49
 Dimethylphthalate
 Concen: 38.614 ng
 RT: 9.71 min Scan# 1254
 Delta R.T. -0.01 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Resp	Lower	Upper
163	100	692538		
194	3.8	2.7	4.1	
164	10.2	8.2	12.2	

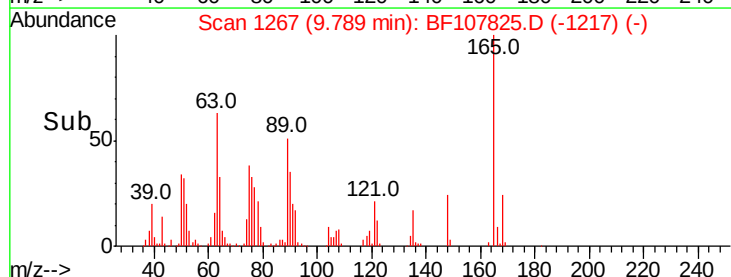
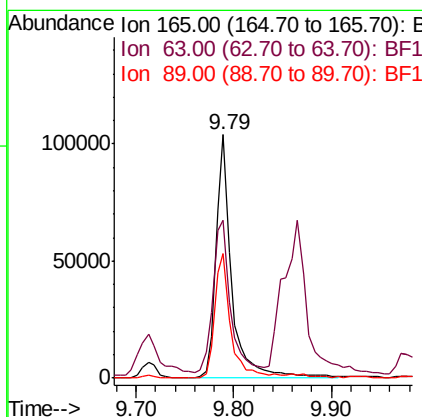
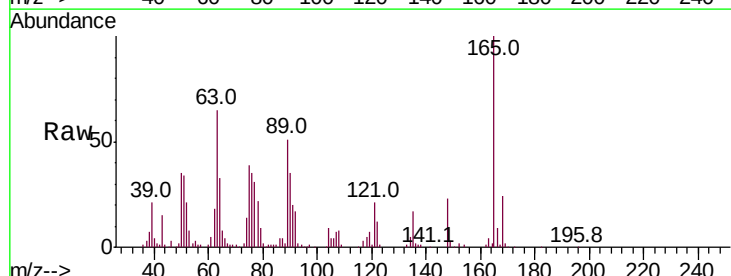
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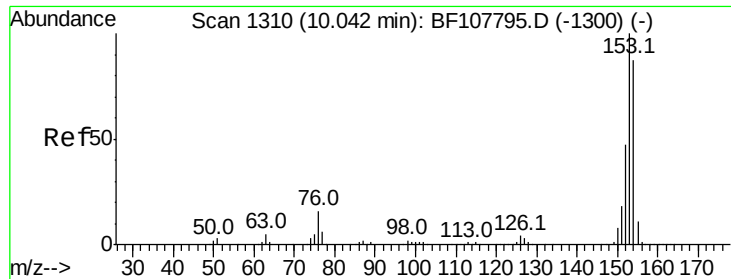
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#50
 2,6-Dinitrotoluene
 Concen: 29.867 ng
 RT: 9.79 min Scan# 1267
 Delta R.T. -0.01 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
165	100	116409		
63	64.8	44.7	67.1	
89	51.0	44.0	66.0	





#51

Acenaphthene

Concen: 32.172 ng

RT: 10.04 min Scan# 1309

Delta R.T. -0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

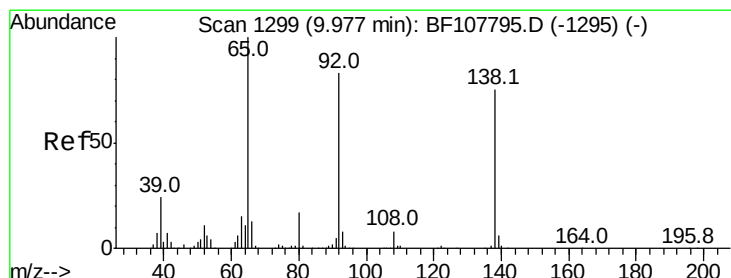
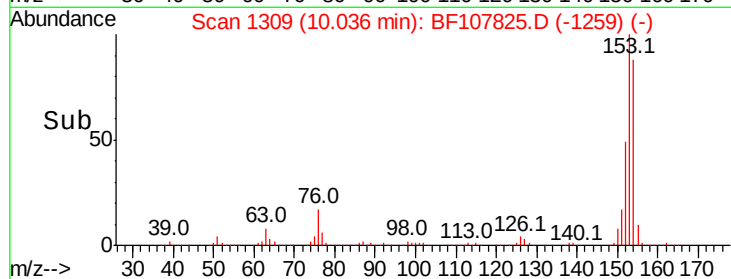
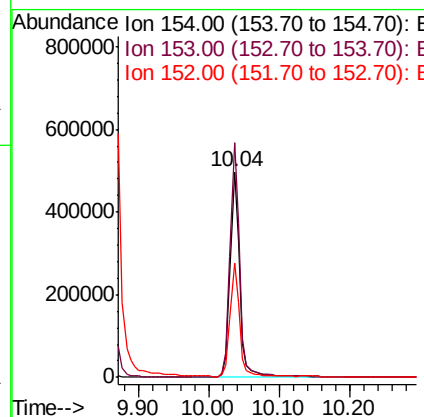
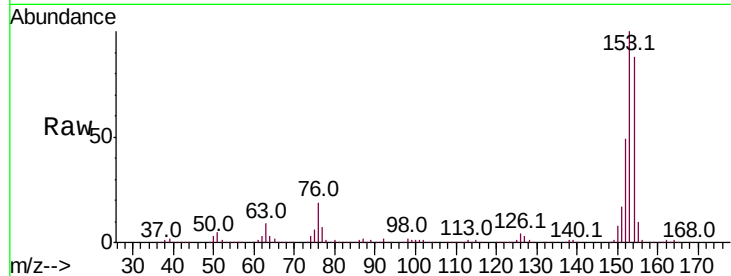
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	154	Resp:	474833
Ion Ratio	Lower	Upper	
154	100		
153	114.1	91.2	136.8
152	55.8	43.8	65.8

Manual Integrations
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#52

3-Nitroaniline

Concen: 26.262 ng

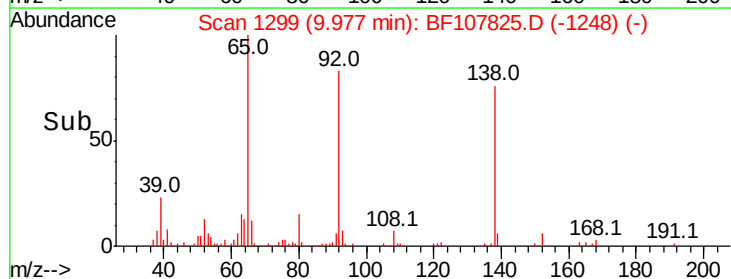
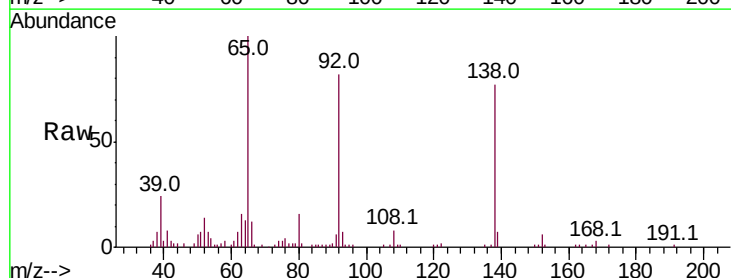
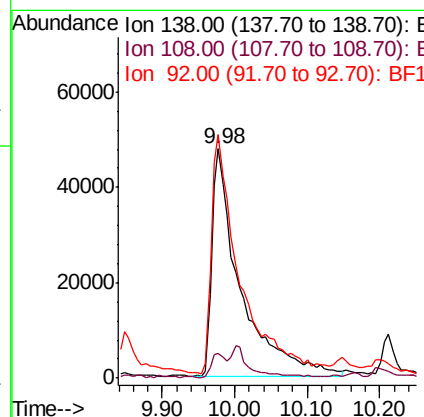
RT: 9.98 min Scan# 1299

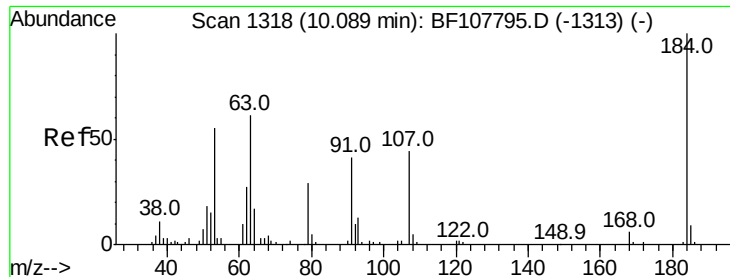
Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	138	Resp:	128982
Ion Ratio	Lower	Upper	
138	100		
108	10.7	9.4	14.0
92	106.3	89.4	134.2





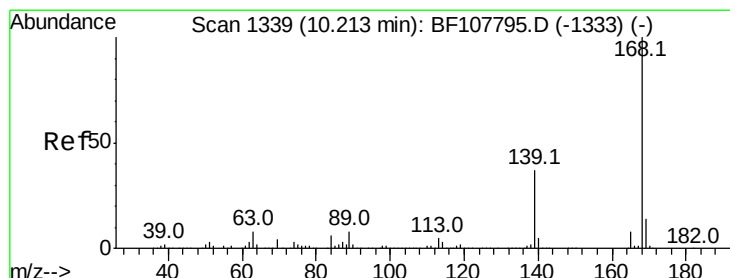
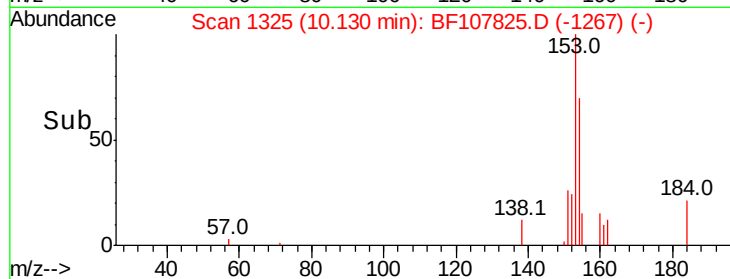
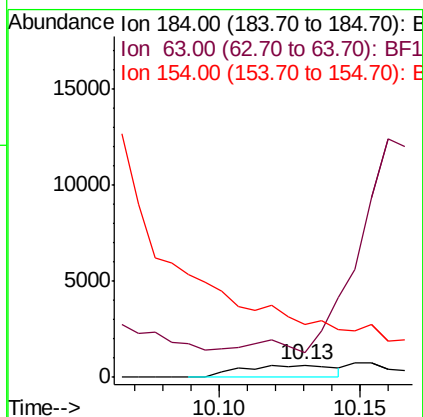
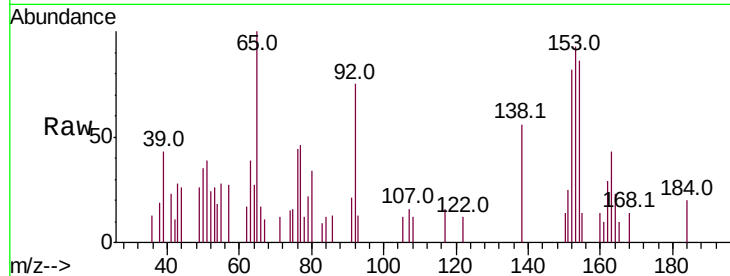
#53
 2,4-Dinitrophenol
 Concen: 9.075 ng
 RT: 10.13 min Scan# 1325
 Delta R.T. 0.04 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
184	100		
63	198.7	54.2	81.2#
154	433.8	184.0	276.0#

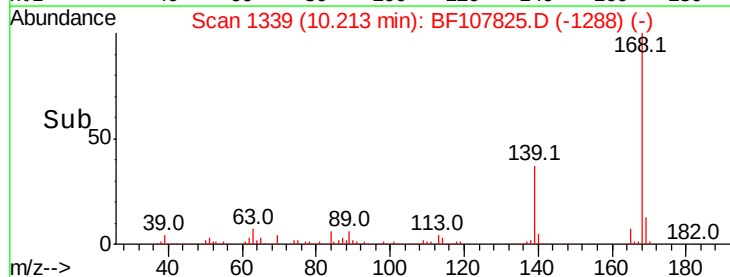
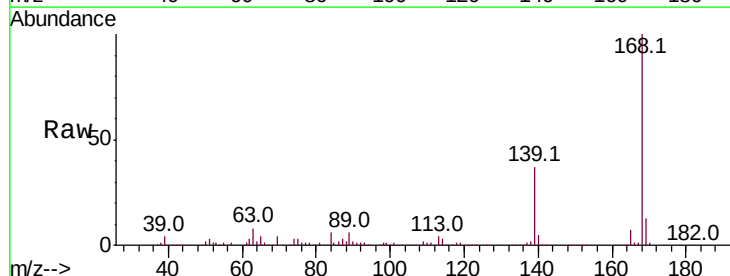
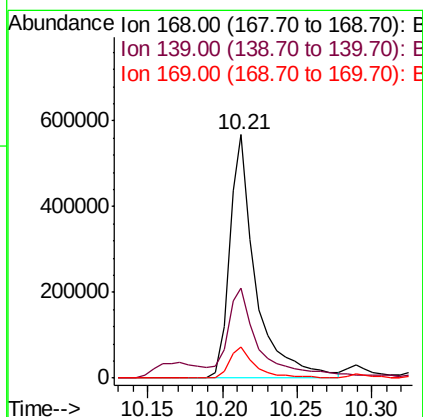
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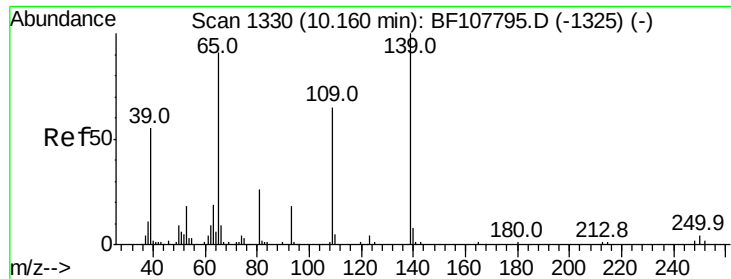
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#54
 Dibenzofuran
 Concen: 30.468 ng
 RT: 10.21 min Scan# 1339
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
168	100		
139	37.0	30.1	45.1
169	12.9	10.9	16.3





#55

4-Nitrophenol

Concen: 38.010 ng

RT: 10.17 min Scan# 1332

Delta R.T. 0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

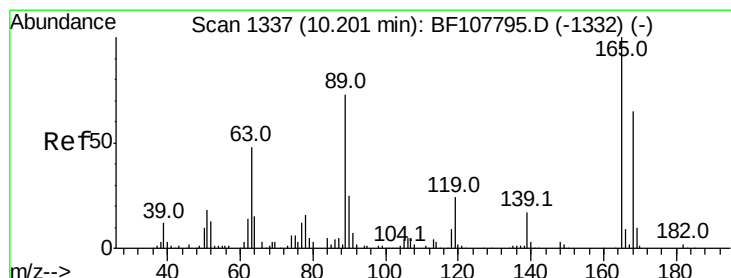
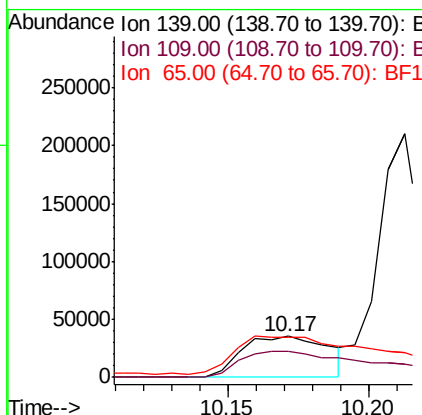
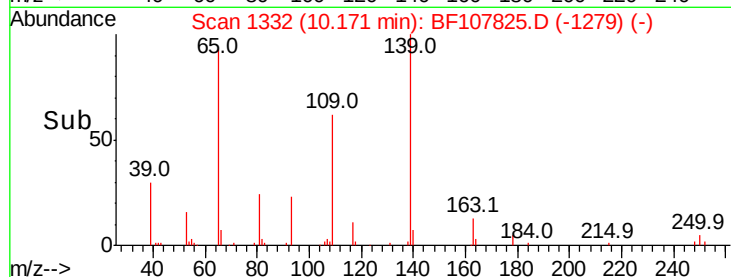
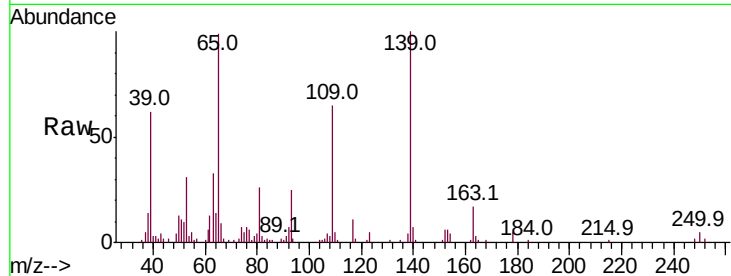
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	139	Resp:	75073
Ion Ratio	Lower	Upper	
139	100		
109	64.8	48.4	88.4
65	98.6	72.6	112.6

Manual Integrations
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#56

2,4-Dinitrotoluene

Concen: 26.586 ng

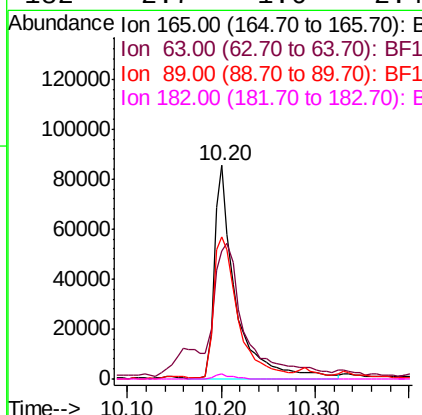
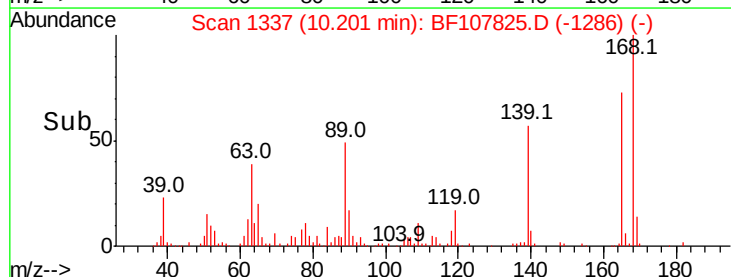
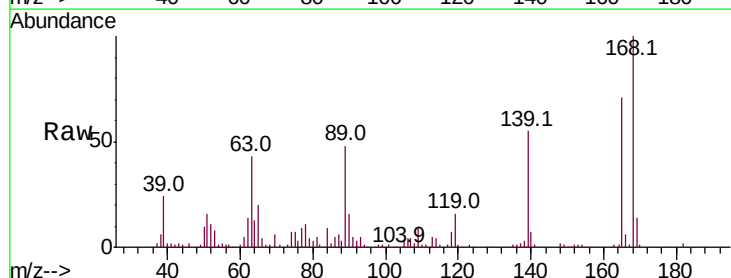
RT: 10.20 min Scan# 1337

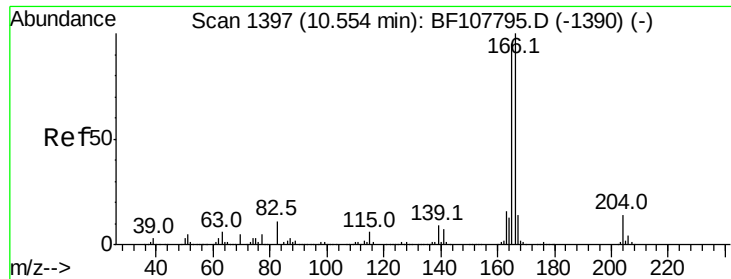
Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	165	Resp:	136193
Ion Ratio	Lower	Upper	
165	100		
63	60.2	36.4	54.6#
89	66.8	57.8	86.6
182	2.7	1.6	2.4#





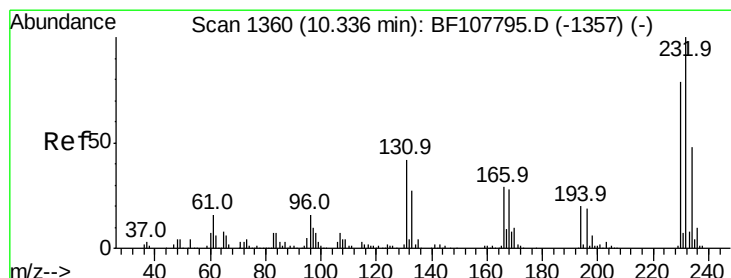
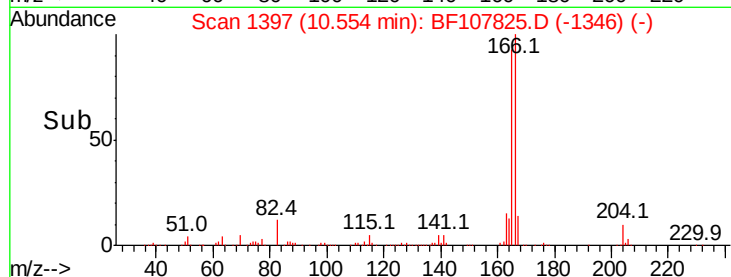
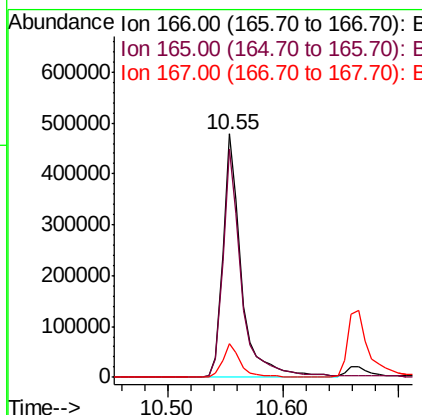
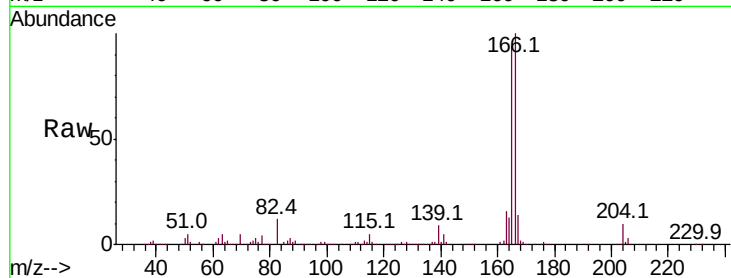
#57
 Fluorene
 Concen: 29.842 ng
 RT: 10.55 min Scan# 1397
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Resp	Lower	Upper
166	100			
165	93.7	79.8	119.8	
167	13.8	10.6	16.0	

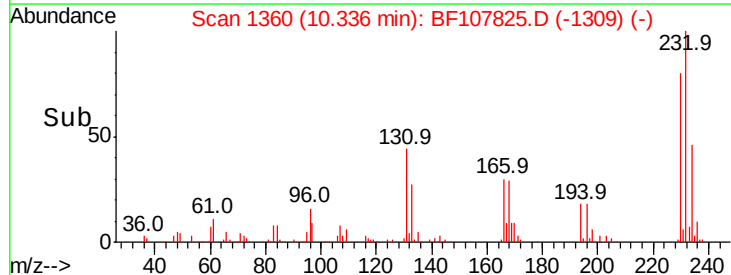
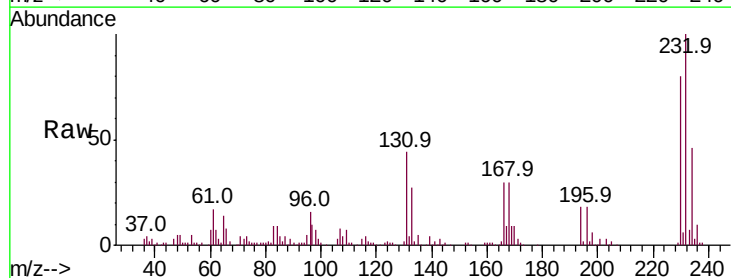
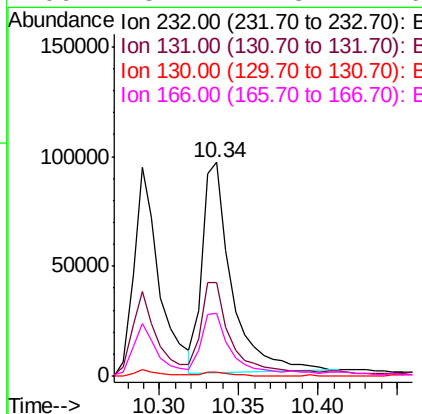
Manual Integrations
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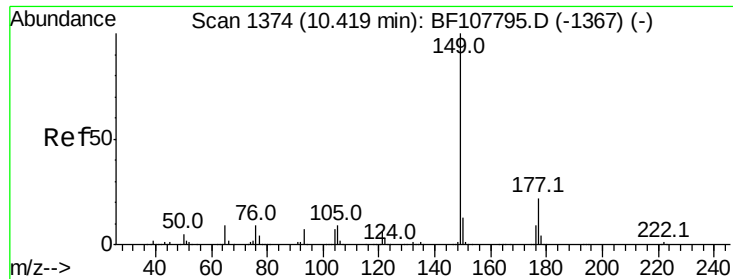
Sohil
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#58
 2,3,4,6-Tetrachlorophenol
 Concen: 25.250 ng
 RT: 10.34 min Scan# 1360
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
232	100			
131	42.7	43.8	65.8#	
130	2.1	2.1	3.1	
166	28.2	27.8	41.6	





#59

Diethylphthalate

Concen: 31.375 ng

RT: 10.41 min Scan# 1373

Delta R.T. -0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

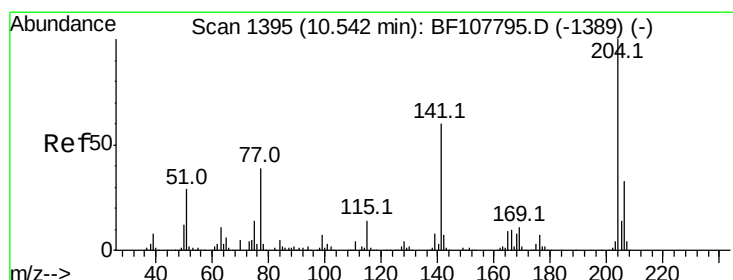
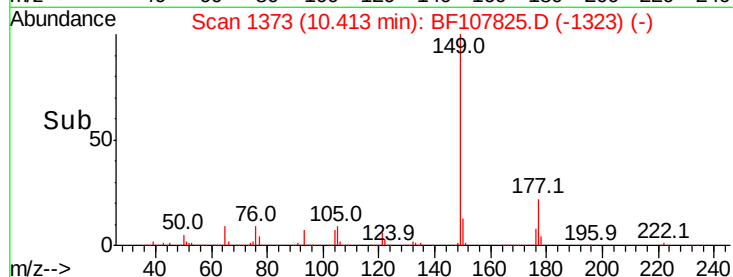
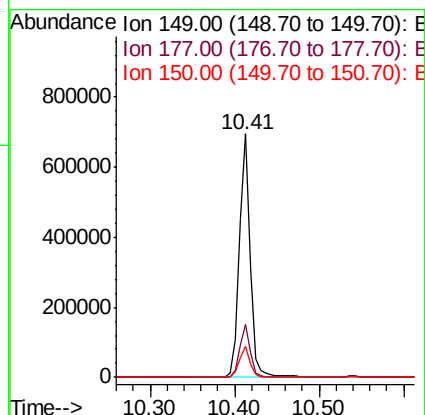
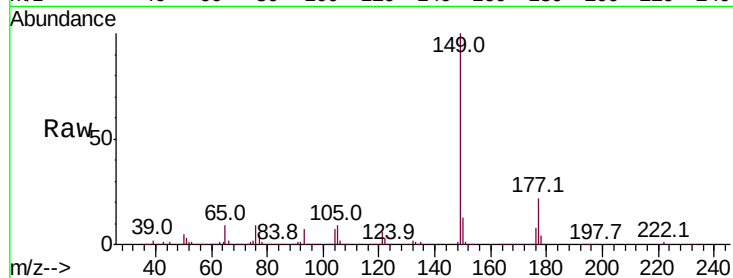
ClientSampleId :

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Tot Ion:	149	Resp:	605013
Ion Ratio	Lower	Upper	
149	100		
177	21.9	16.1	24.1
150	12.6	10.1	15.1

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#60

4-Chlorophenyl-phenylether

Concen: 27.484 ng

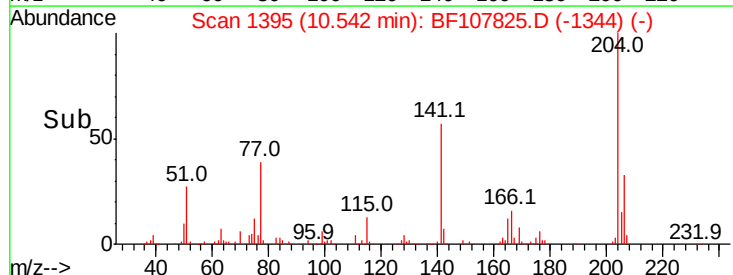
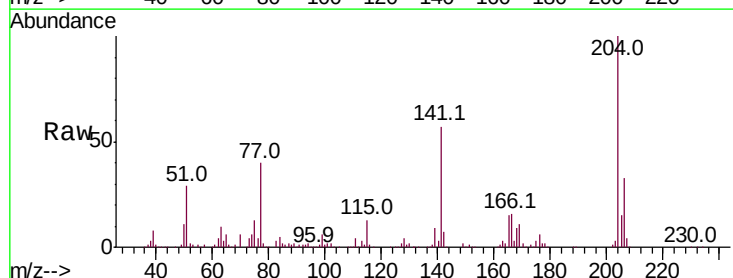
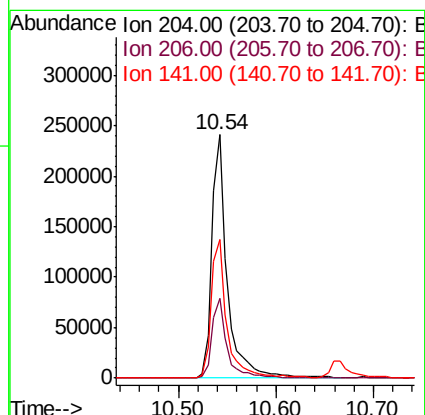
RT: 10.54 min Scan# 1395

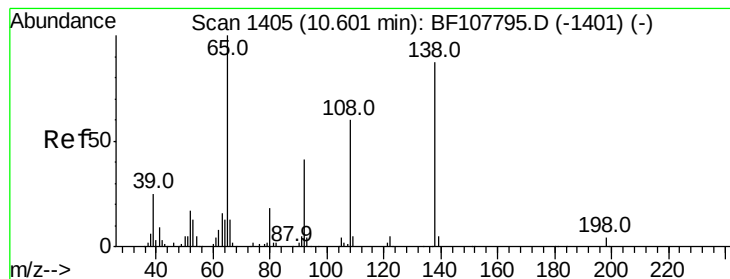
Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	204	Resp:	265443
Ion Ratio	Lower	Upper	
204	100		
206	32.6	26.5	39.7
141	56.9	54.6	81.8





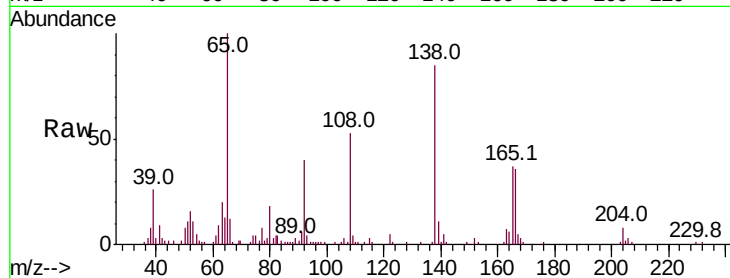
#61
4-Nitroaniline
Concen: 28.577 ng
RT: 10.59 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
138	100		
92	47.1	30.2	70.2
108	62.5	52.5	92.5

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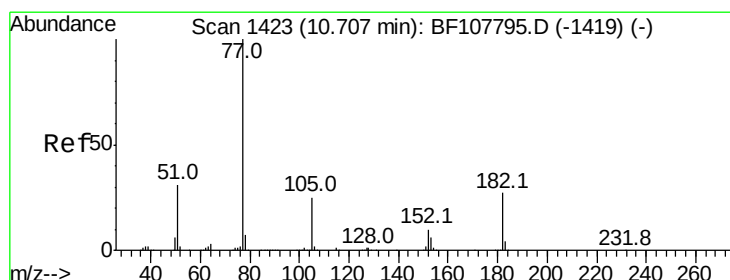
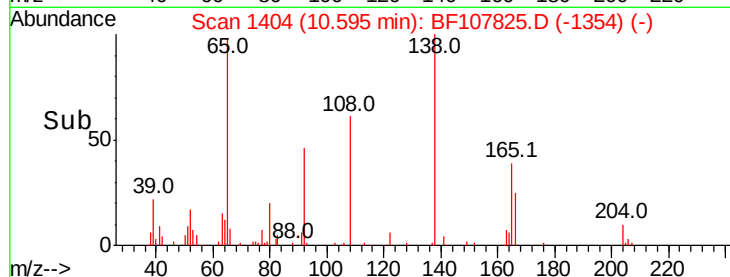
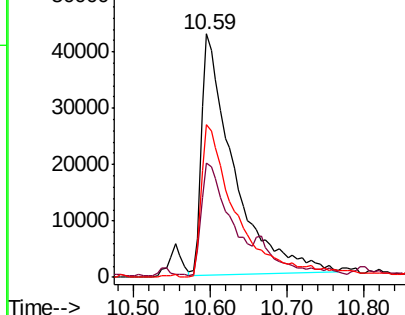


Abundance

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



#62
Azobenzene
Concen: 29.320 ng
RT: 10.70 min Scan# 1422
Delta R.T. -0.01 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
77	100		
182	23.1	1.7	41.7
105	24.0	3.0	43.0
51	33.5	9.9	49.9

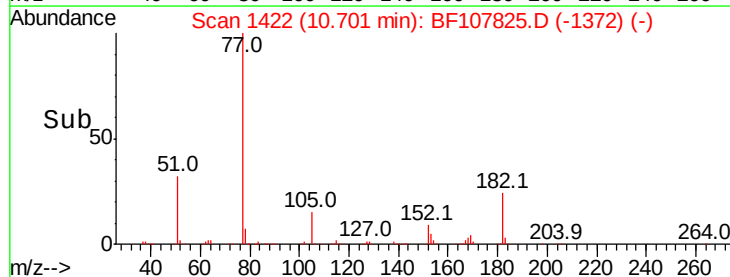
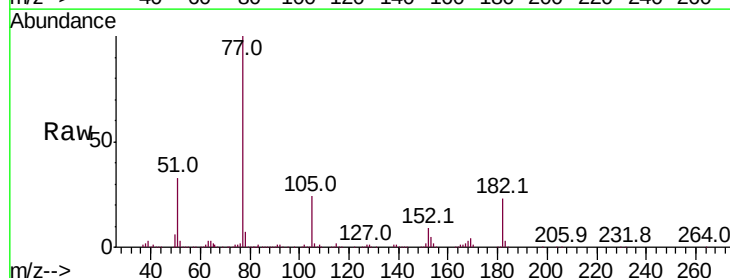
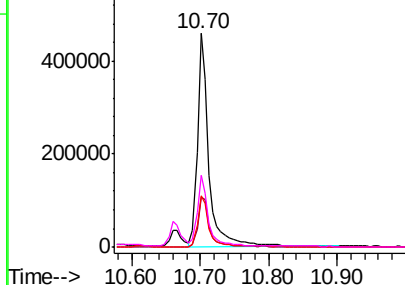
Abundance

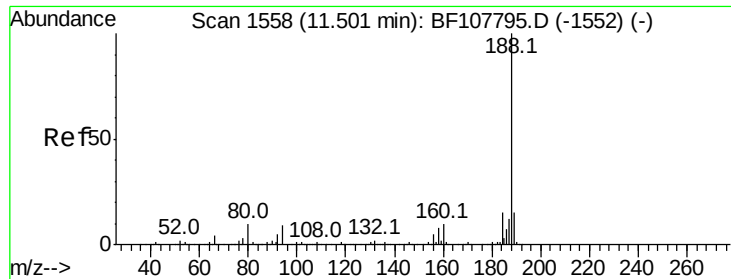
Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1





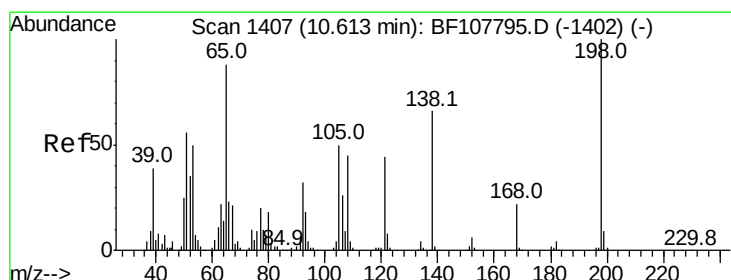
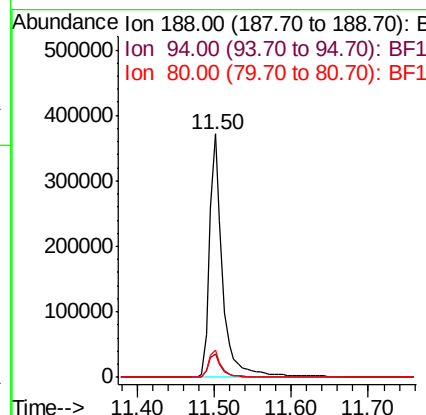
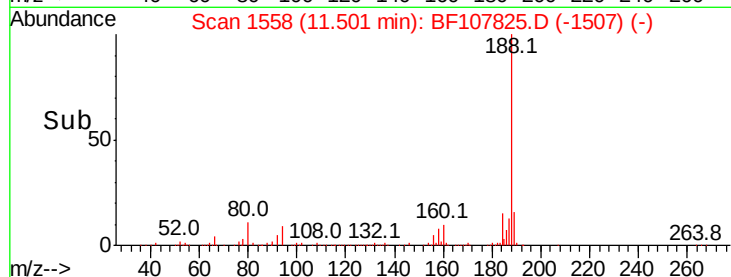
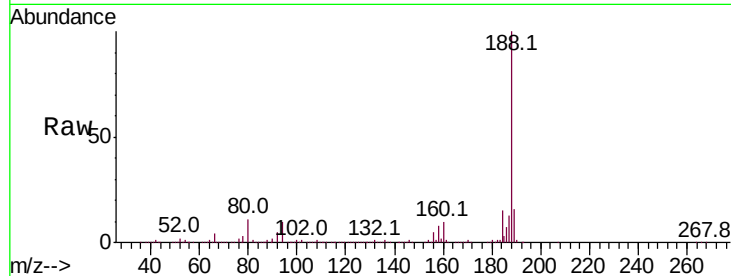
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1558
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Resp	Lower	Upper
188	100			
94	9.6	8.5	12.7	
80	11.1	9.2	13.8	

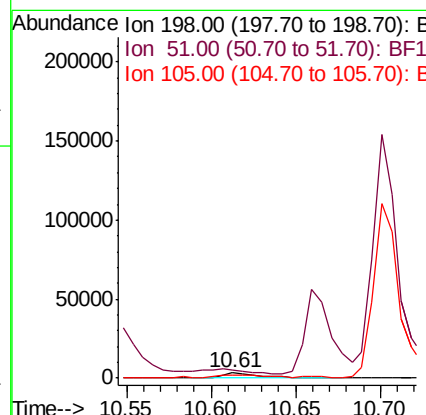
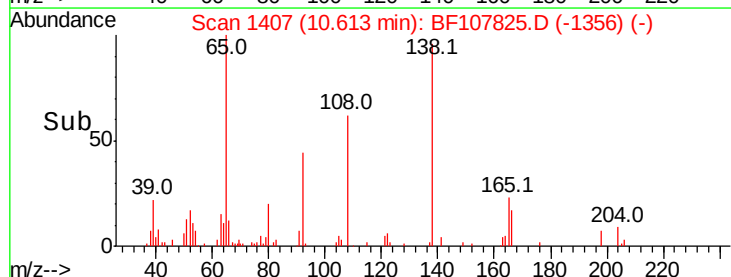
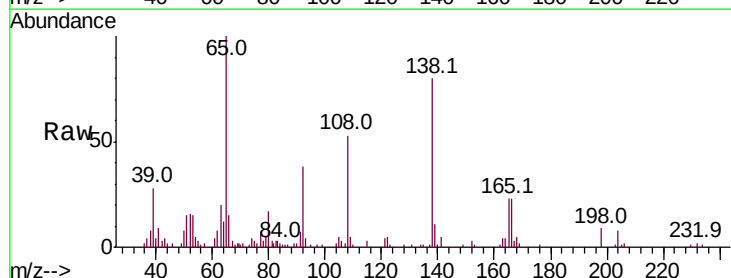
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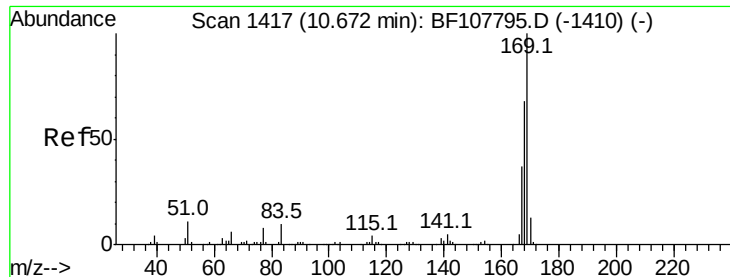
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#64
4,6-Dinitro-2-methylphenol
Concen: 2.435 ng
RT: 10.61 min Scan# 1407
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
198	100			
51	166.4	37.7	77.7#	
105	60.0	36.3	76.3	





#65

n-Nitrosodiphenylamine

Concen: 31.985 ng

RT: 10.67 min Scan# 1416

Delta R.T. -0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

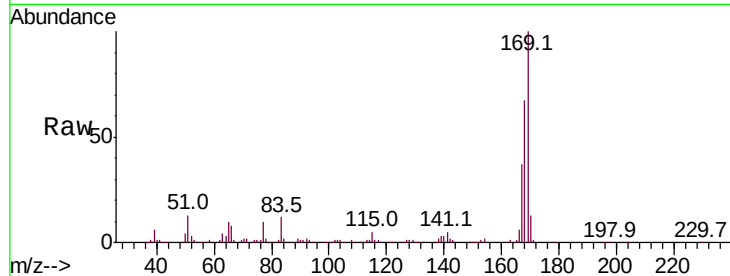
ClientSampleId :

TOPSOIL-072618MSD

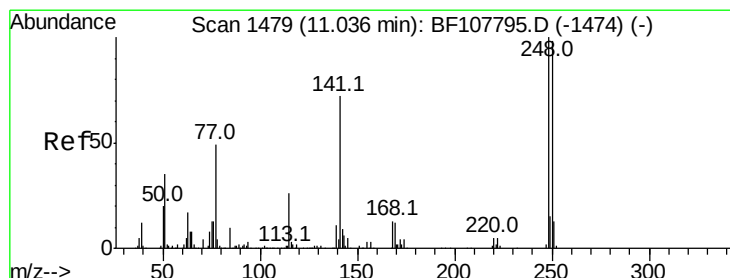
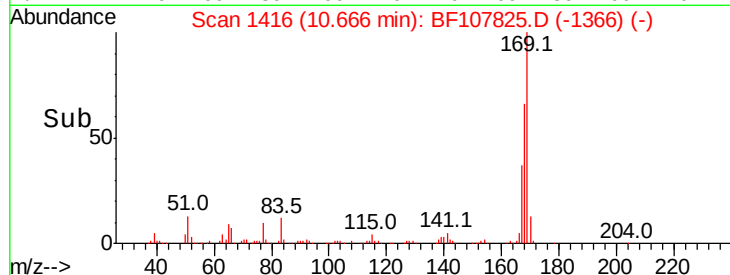
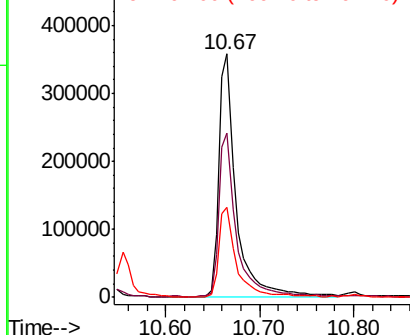
Tot Ion:	169	Resp:	462759
Ion Ratio	Lower	Upper	
169	100		
168	67.3	54.4	81.6
167	37.0	29.8	44.6

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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



#66

4-Bromophenyl-phenylether

Concen: 30.357 ng

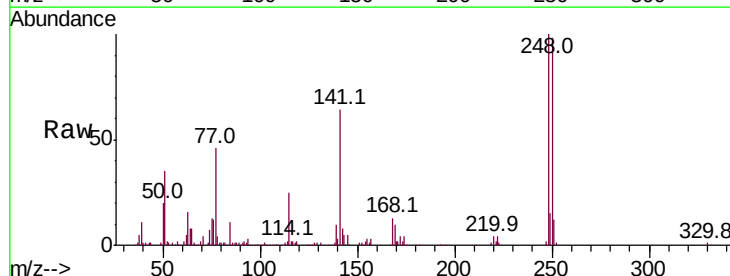
RT: 11.04 min Scan# 1479

Delta R.T. -0.00 min

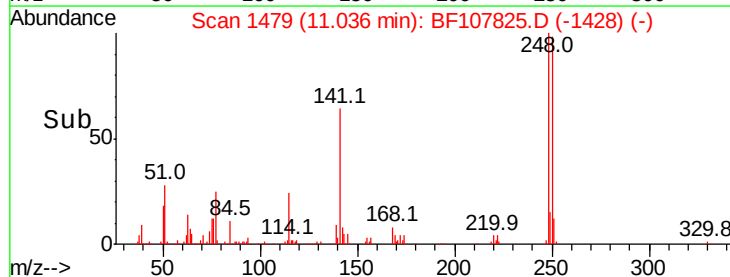
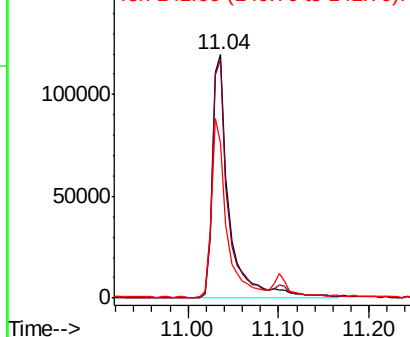
Lab File: BF107825.D

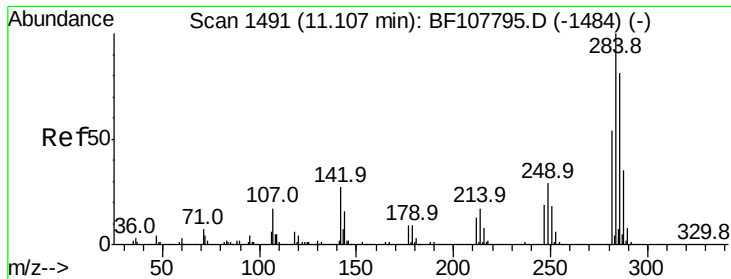
Acq: 31 Jul 2018 2:34

Tgt Ion:	248	Resp:	155469
Ion Ratio	Lower	Upper	
248	100		
250	98.1	76.9	115.3
141	63.9	74.4	111.6#



Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E





#67

Hexachlorobenzene

Concen: 28.221 ng

RT: 11.10 min Scan# 1490

Delta R.T. -0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

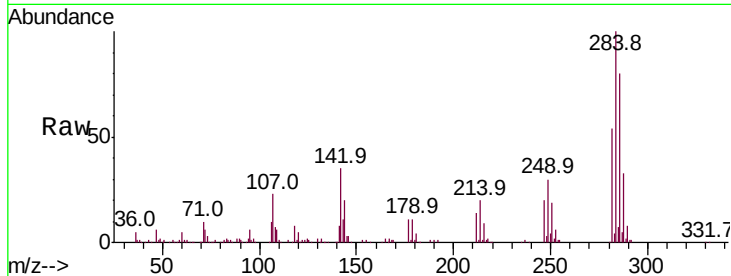
ClientSampleId :

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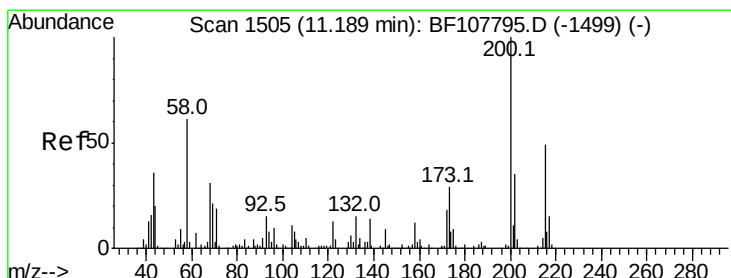
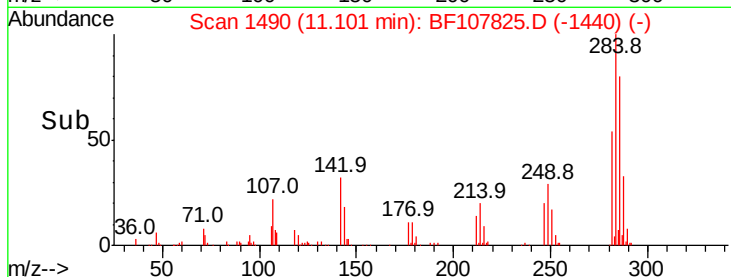
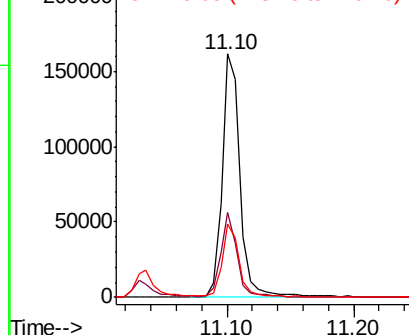
Tot Ion:	284	Resp:	160266
Ion Ratio	Lower	Upper	
284	100		
142	34.8	34.6	52.0
249	30.3	24.8	37.2

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Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E



#68

Atrazine

Concen: 30.656 ng

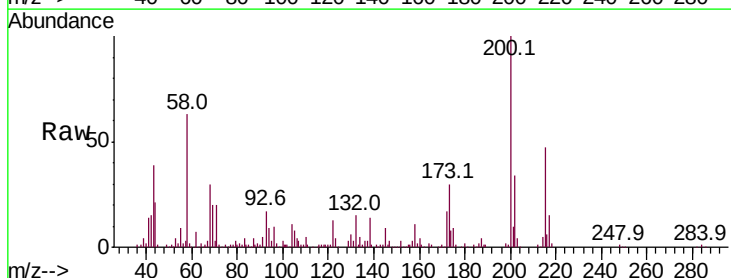
RT: 11.18 min Scan# 1504

Delta R.T. -0.01 min

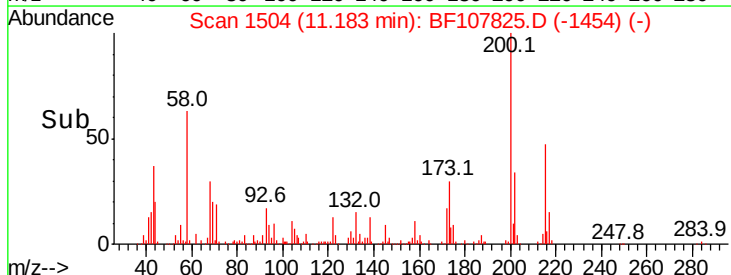
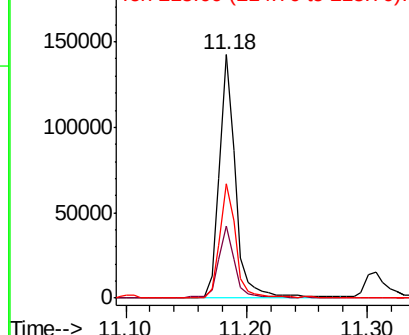
Lab File: BF107825.D

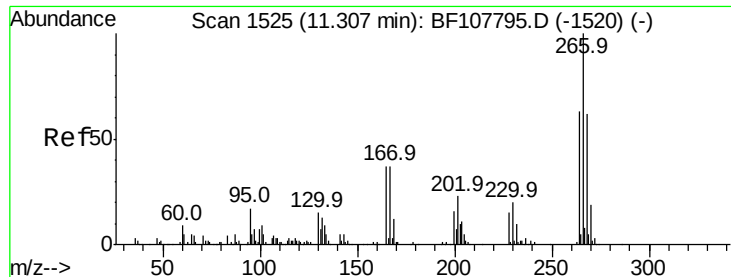
Acq: 31 Jul 2018 2:34

Tgt Ion:	200	Resp:	131269
Ion Ratio	Lower	Upper	
200	100		
173	29.7	8.6	48.6
215	47.0	25.1	65.1



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





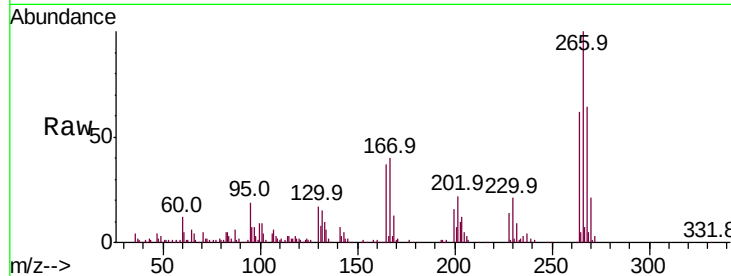
#69
 Pentachlorophenol
 Concen: 45.845 ng
 RT: 11.31 min Scan# 1525
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Resp	Lower	Upper
266	100	128166		
268	64.2	51.1	76.7	
264	62.4	49.5	74.3	

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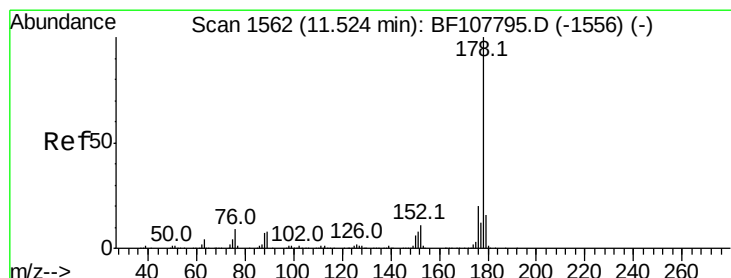
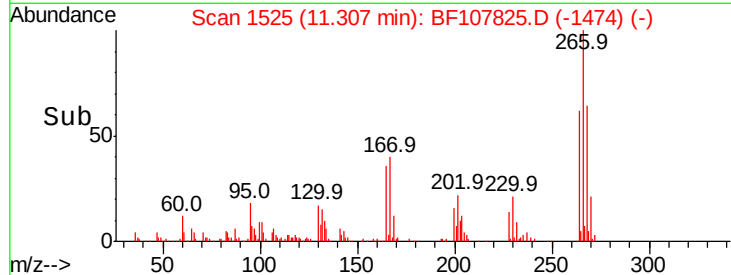
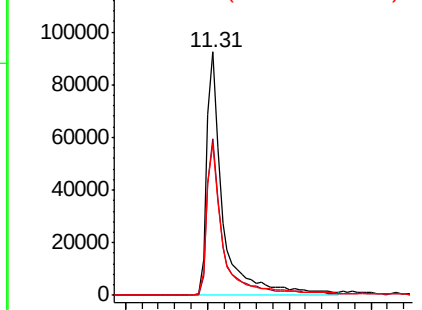


Abundance

Ion 265.70 (265.40 to 266.40): E

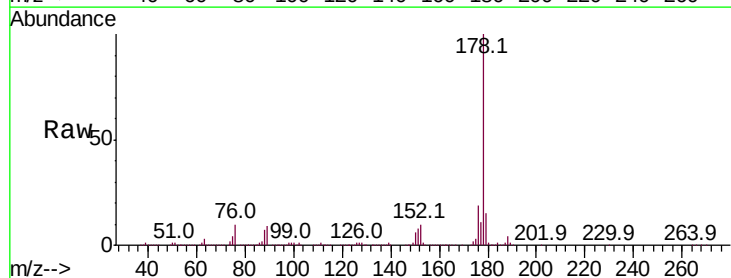
Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#70
 Phenanthrene
 Concen: 32.761 ng
 RT: 11.52 min Scan# 1562
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Resp	Lower	Upper
178	100	683497		
176	19.3	15.8	23.8	
179	15.1	13.0	19.6	

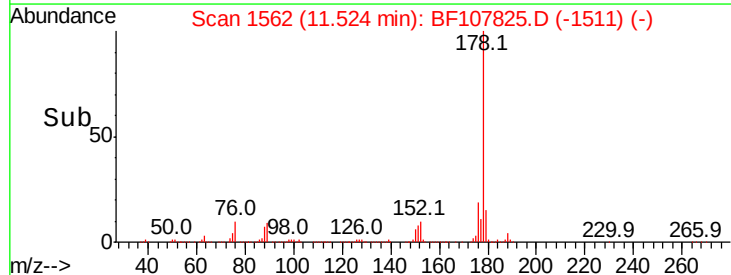
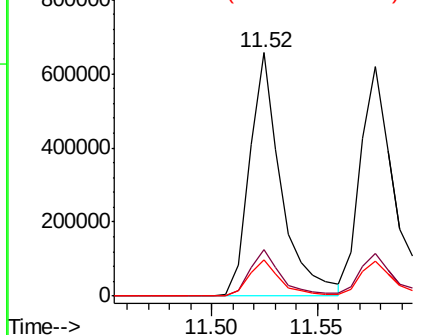


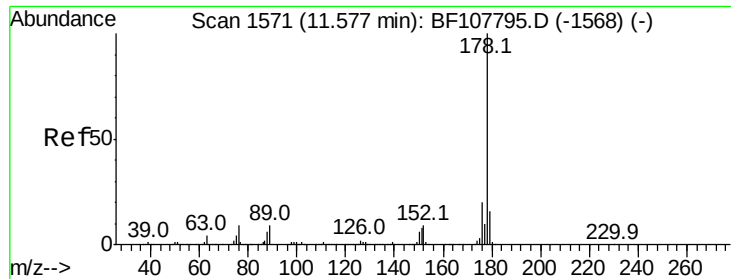
Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





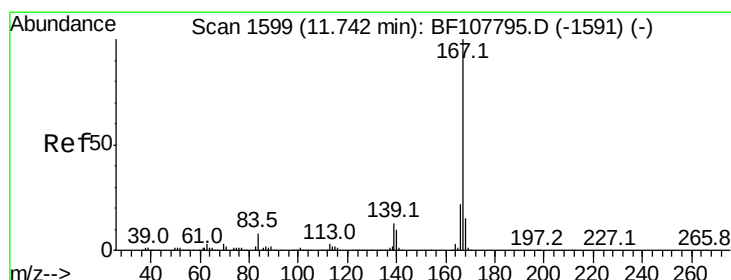
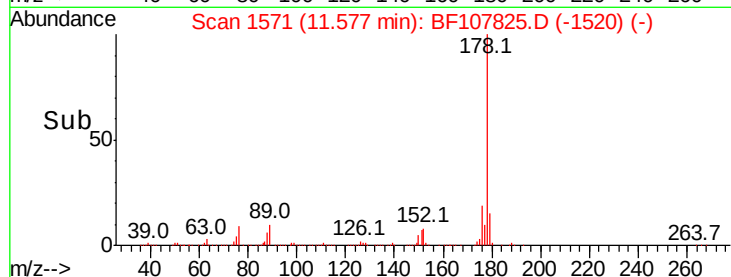
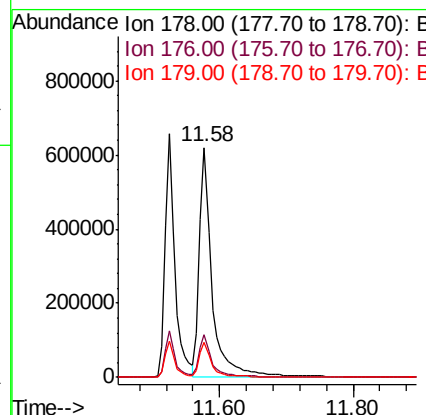
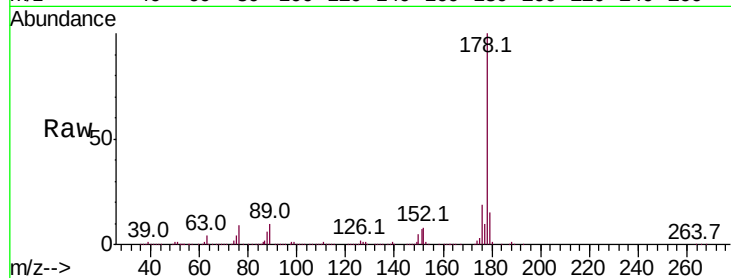
#71
 Anthracene
 Concen: 32.910 ng
 RT: 11.58 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.4	23.2
179	15.2	12.6	19.0

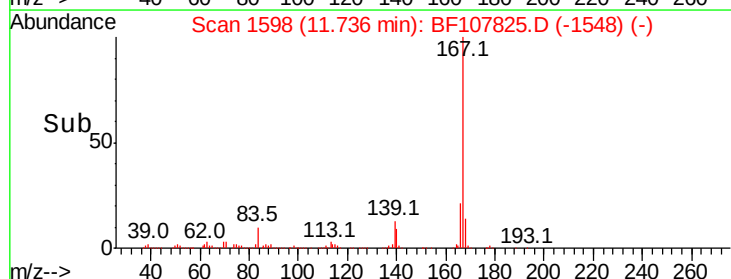
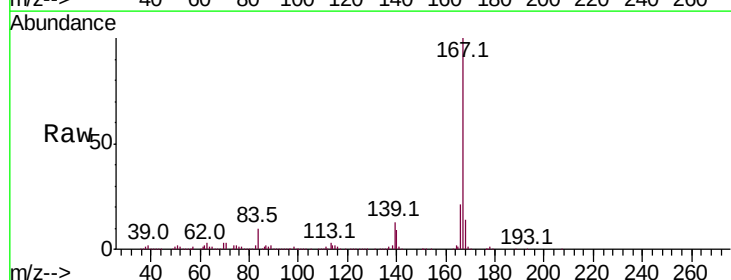
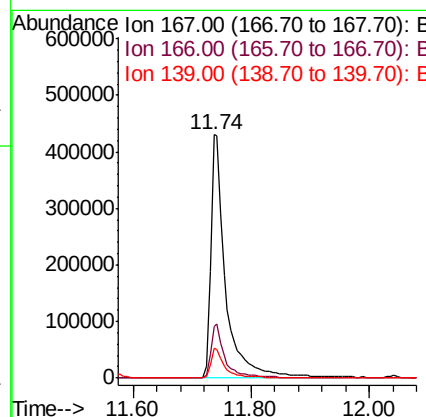
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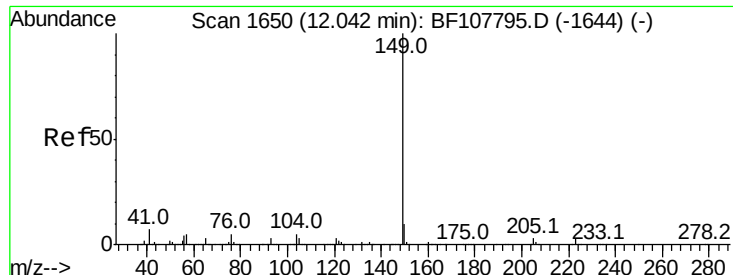
Sohil
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#72
 Carbazole
 Concen: 31.973 ng
 RT: 11.74 min Scan# 1598
 Delta R.T. -0.01 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.6	26.4
139	12.5	10.9	16.3





#73

Di-n-butylphthalate

Concen: 32.602 ng

RT: 12.04 min Scan# 1650

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

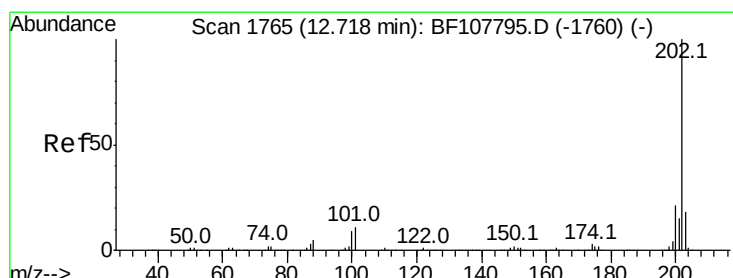
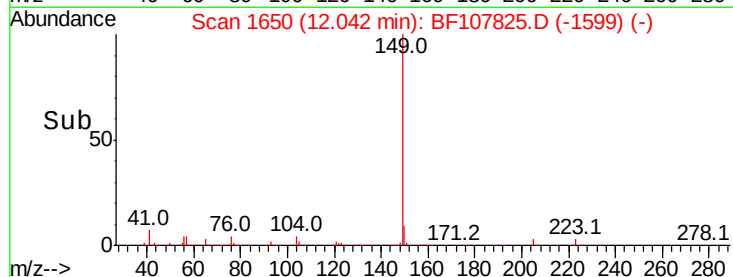
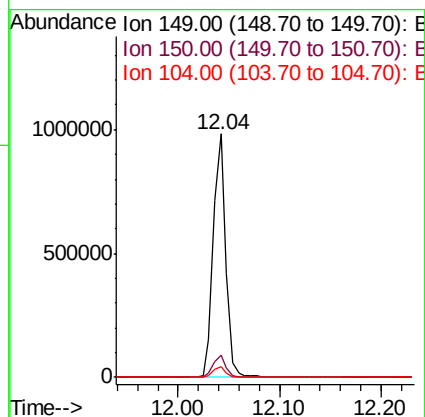
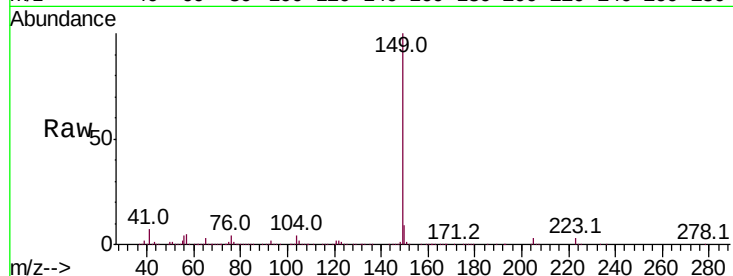
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	149	Resp:	845833
Ion Ratio	Lower	Upper	
149	100		
150	9.1	7.8	11.6
104	4.5	3.8	5.8

Manual Integrations
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#74

Fluoranthene

Concen: 35.860 ng

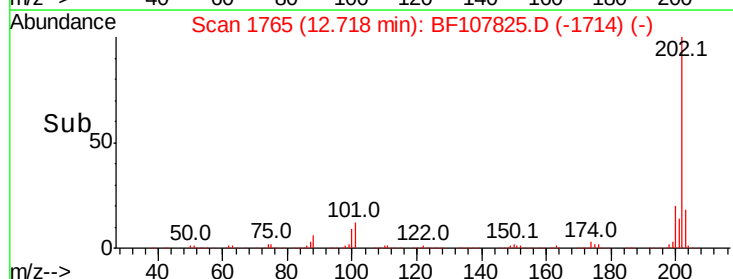
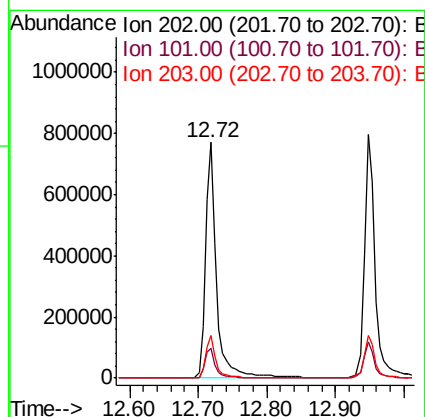
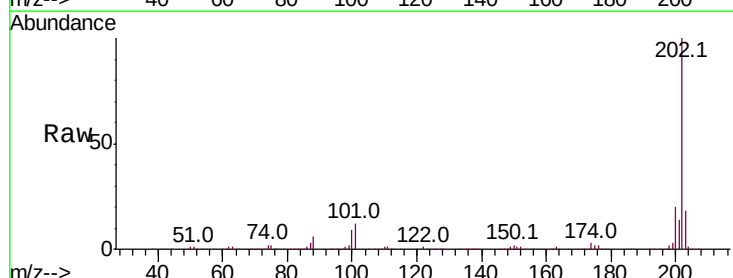
RT: 12.72 min Scan# 1765

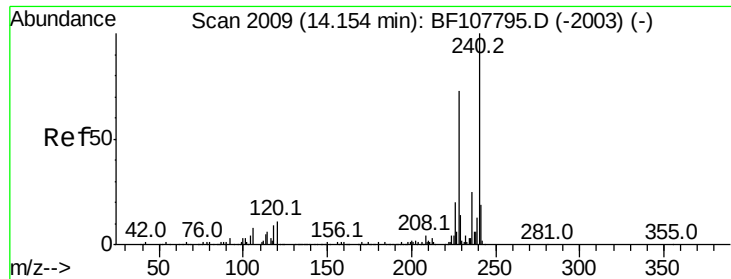
Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	202	Resp:	878935
Ion Ratio	Lower	Upper	
202	100		
101	12.4	0.0	34.1
203	17.9	0.0	38.1





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

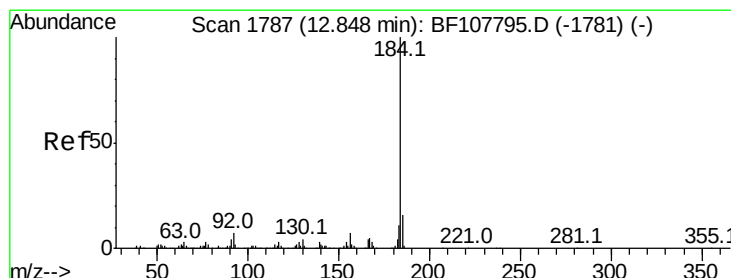
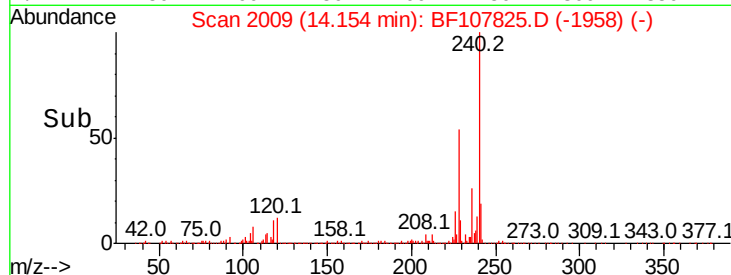
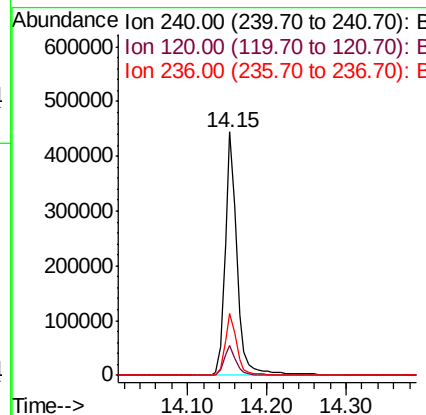
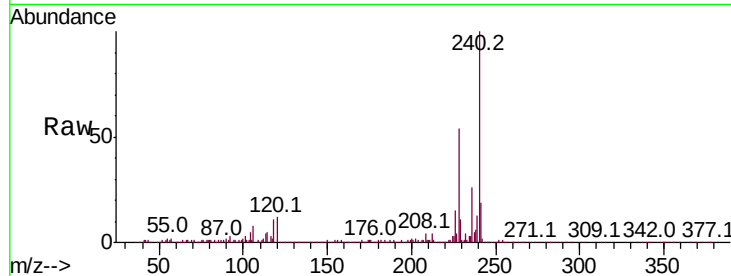
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	240	Resp:	463311
Ion Ratio	Lower	Upper	
240	100		
120	12.2	9.5	14.3
236	25.6	20.7	31.1

Manual Integrations
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#76

Benzidine

Concen: 9.718 ng

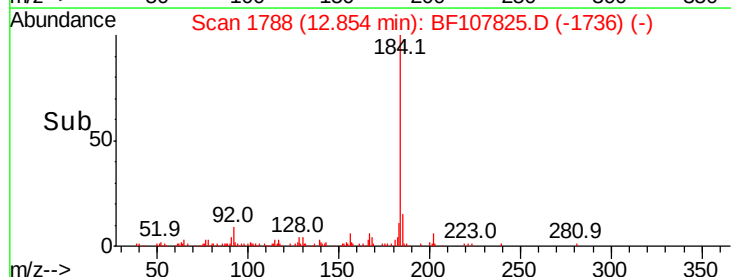
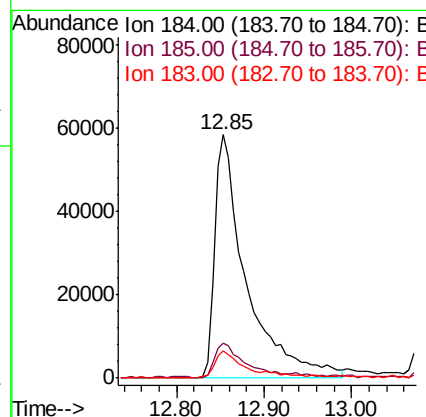
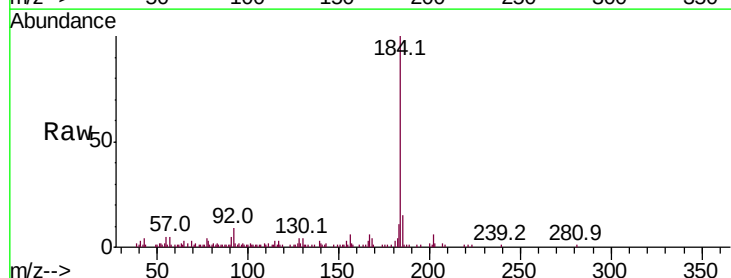
RT: 12.85 min Scan# 1788

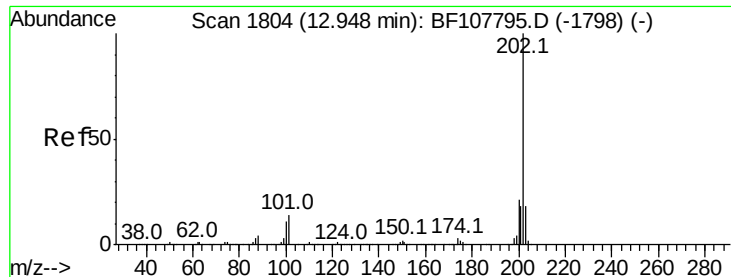
Delta R.T. 0.01 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	184	Resp:	145576
Ion Ratio	Lower	Upper	
184	100		
185	14.6	12.6	18.8
183	11.0	9.3	13.9





#77

Pvrene

Concen: 26.380 ng

RT: 12.95 min Scan# 1804

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

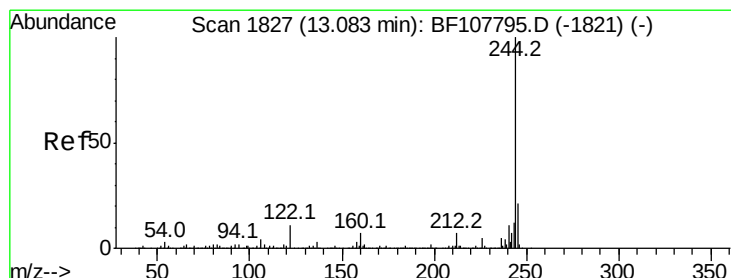
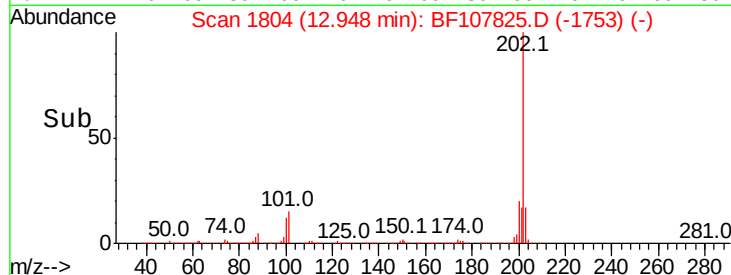
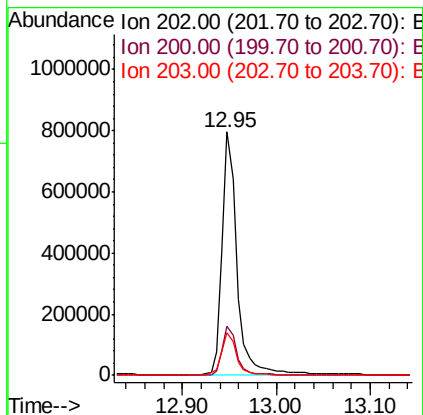
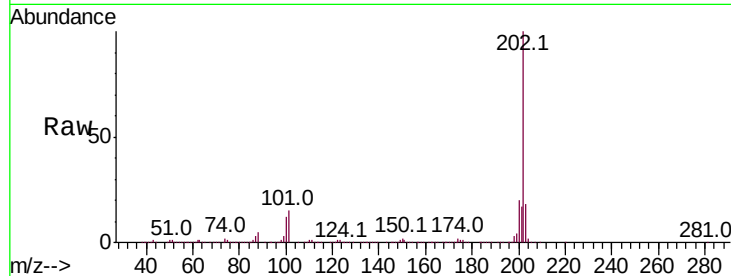
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	202	Resp:	880111
Ion Ratio	Lower	Upper	
202	100		
200	20.1	17.4	26.2
203	17.5	14.3	21.5

Manual Integrations
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#78

Terphenyl-d14

Concen: 53.808 ng

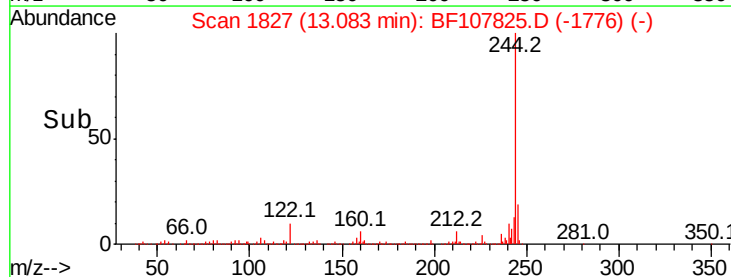
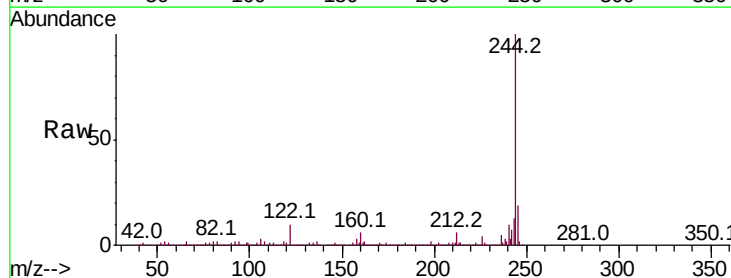
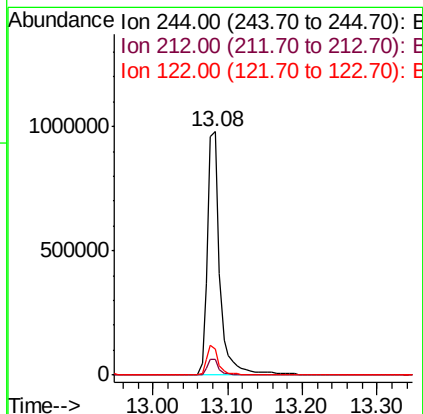
RT: 13.08 min Scan# 1827

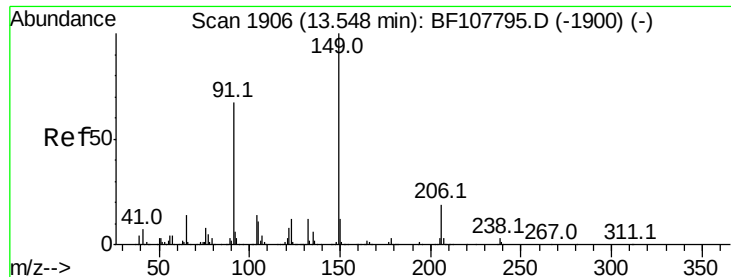
Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	244	Resp:	1149663
Ion Ratio	Lower	Upper	
244	100		
212	6.4	5.4	8.0
122	10.5	11.0	16.4#





#79

Butylbenzylphthalate

Concen: 27.585 ng

RT: 13.55 min Scan# 1906

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

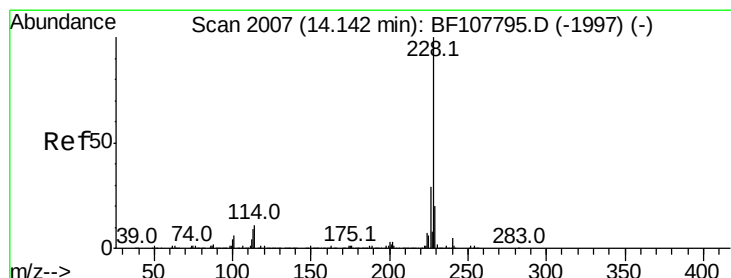
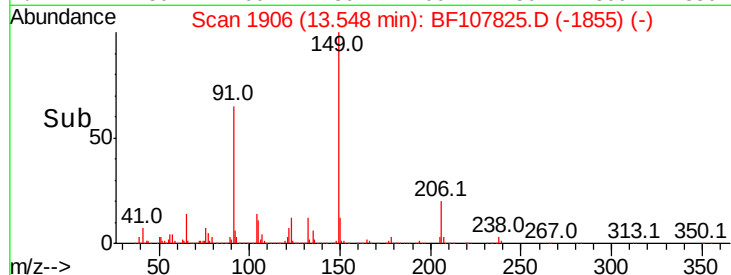
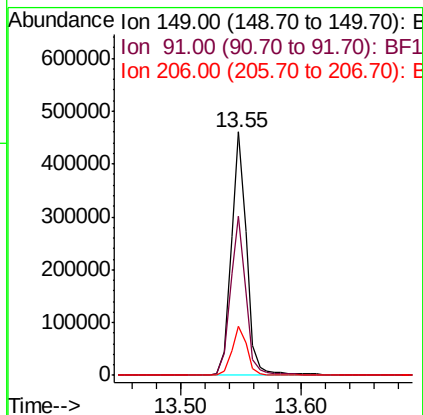
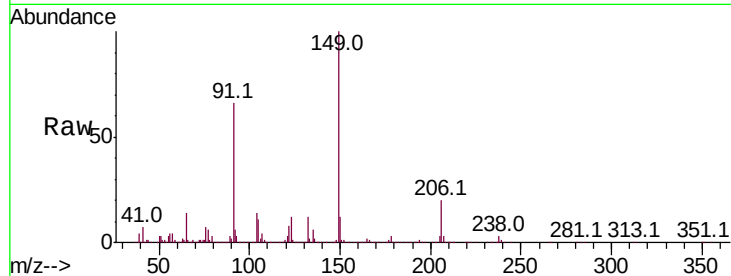
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	149	Resp:	403017
Ion Ratio	Lower	Upper	
149	100		
91	65.5	56.8	85.2
206	20.3	14.1	21.1

Manual Integrations
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#80

Benzo(a)anthracene

Concen: 31.681 ng

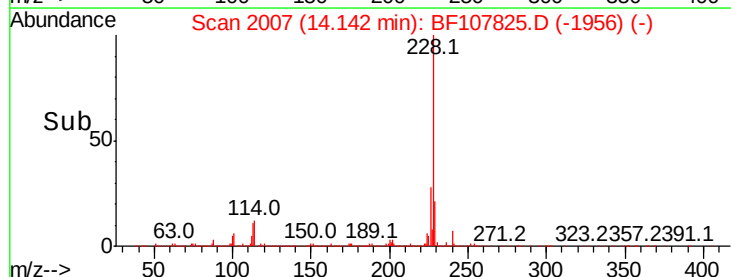
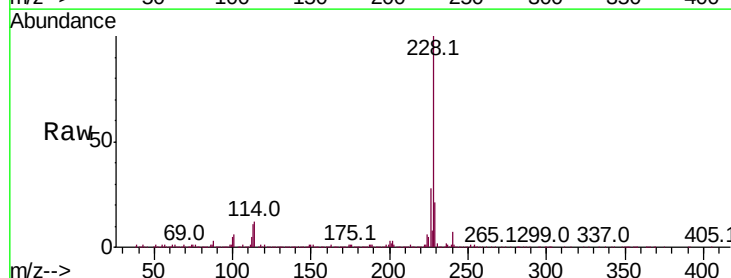
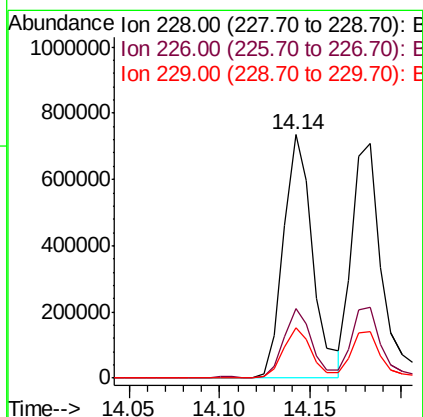
RT: 14.14 min Scan# 2007

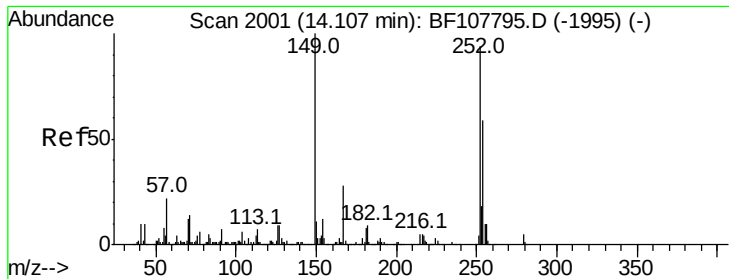
Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	228	Resp:	831468
Ion Ratio	Lower	Upper	
228	100		
226	28.5	22.6	33.8
229	20.7	15.8	23.6





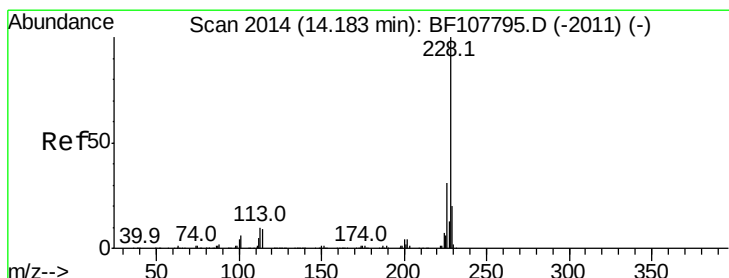
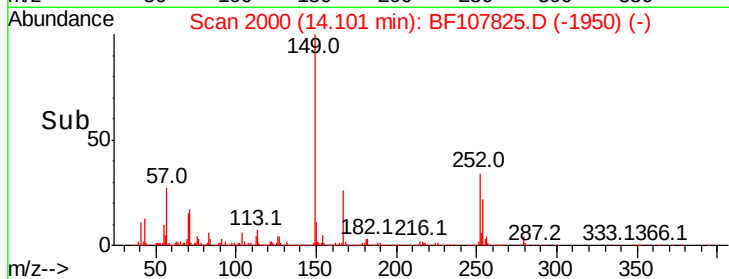
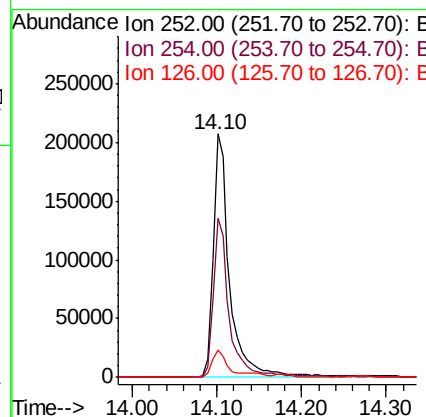
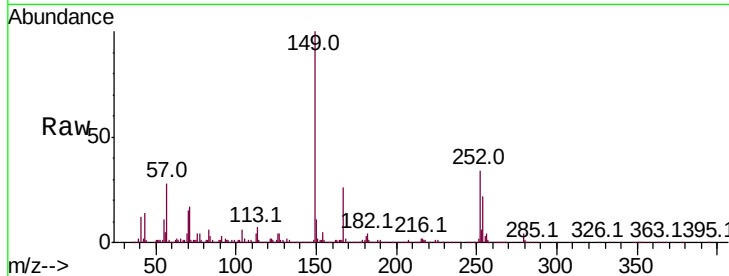
#81
 3,3'-Dichlorobenzidine
 Concen: 27.922 ng
 RT: 14.10 min Scan# 2000
 Delta R.T. -0.01 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
252	100		
254	65.5	50.4	75.6
126	11.4	11.3	16.9

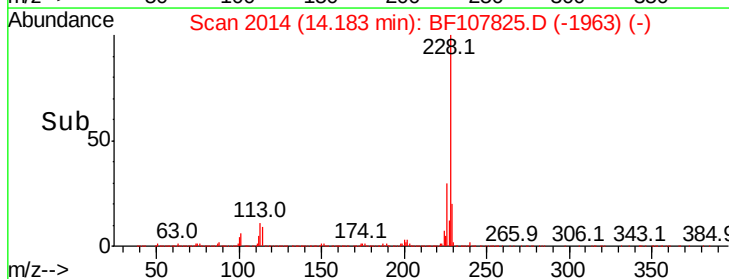
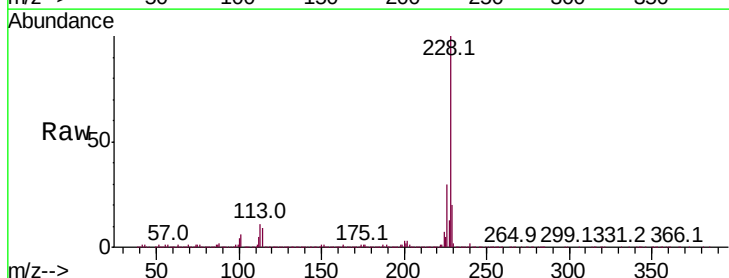
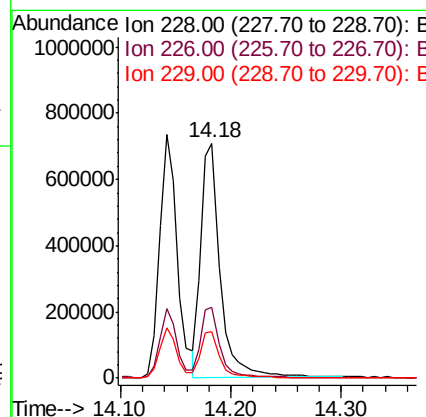
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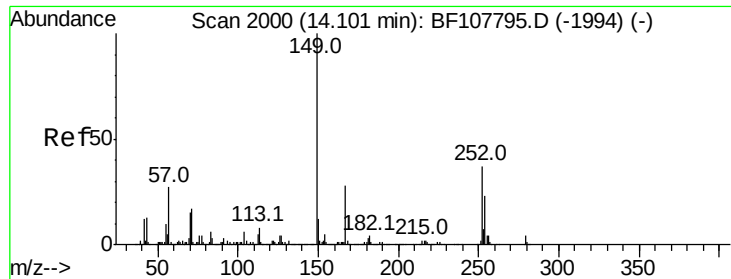
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#82
 Chrysene
 Concen: 29.896 ng
 RT: 14.18 min Scan# 2014
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.4	25.0	37.6
229	19.7	16.2	24.4





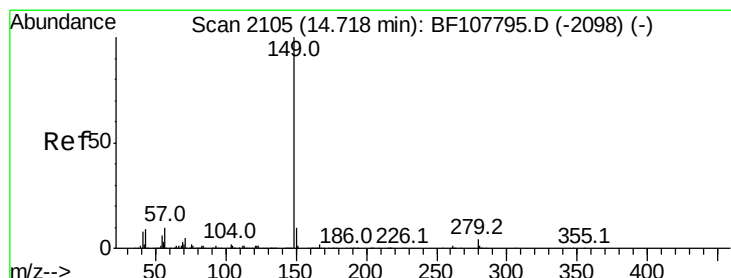
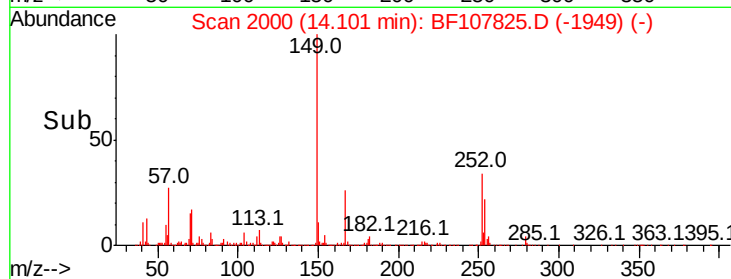
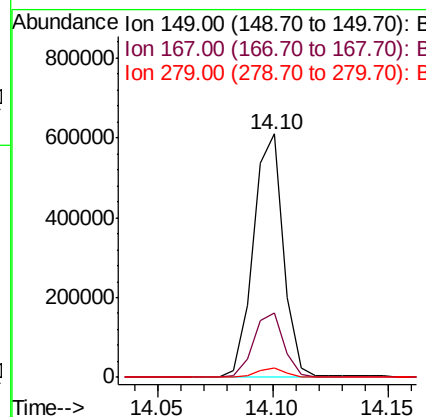
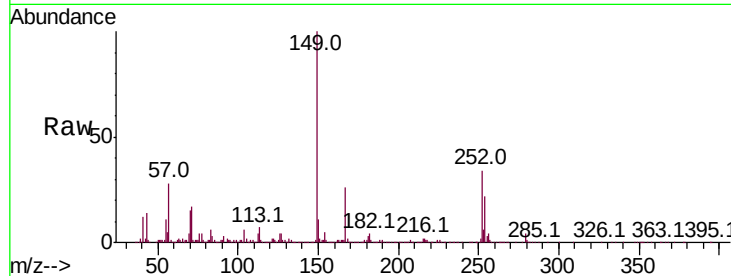
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 30.130 ng
 RT: 14.10 min Scan# 2000
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.3	31.9
279	3.6	3.0	4.4

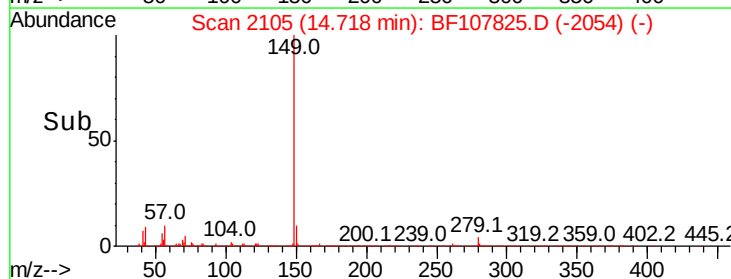
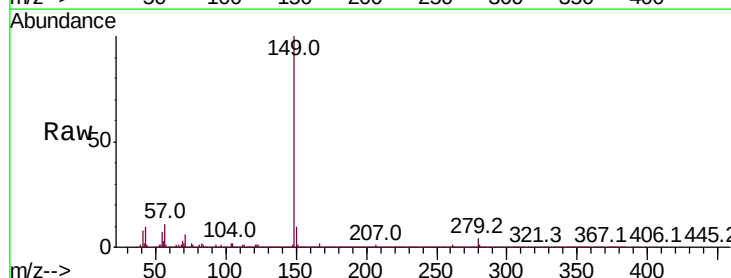
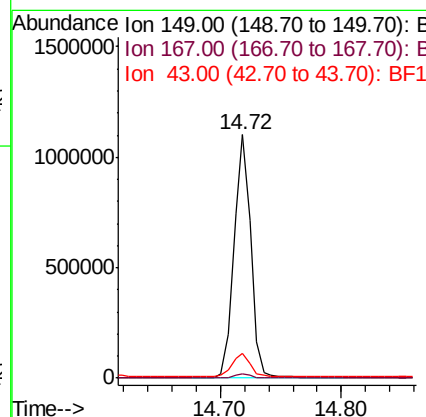
Manual Integrations
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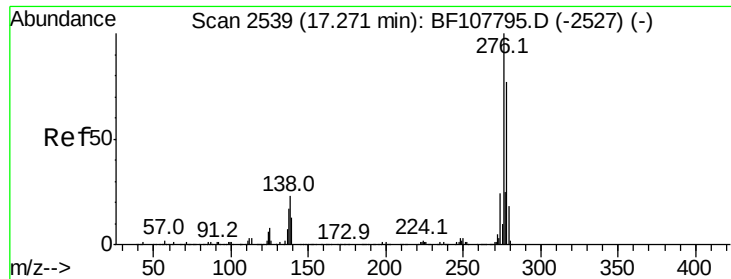
Sohil
 7/31/2018 2:43:04 PM



#84
 Di-n-octyl phthalate
 Concen: 35.854 ng
 RT: 14.72 min Scan# 2105
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	9.6	8.4	12.6





#85

Indeno(1,2,3-cd)pyrene

Concen: 25.754 ng

RT: 17.27 min Scan# 2539

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

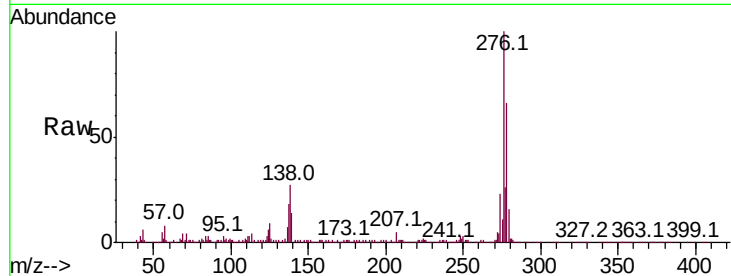
ClientSampleId :

TOPSOIL-072618MSD

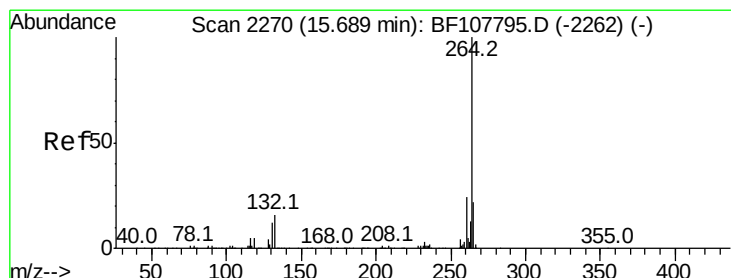
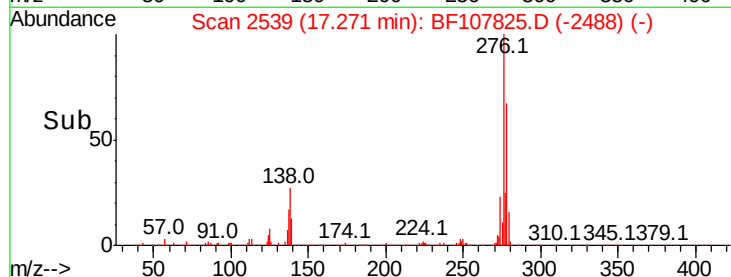
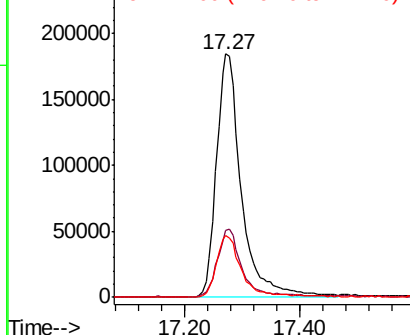
Tot Ion:	276	Resp:	554518
Ion Ratio	Lower	Upper	
276	100		
138	26.9	25.0	37.6
277	25.0	20.1	30.1

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



#86

Perylene-d12

Concen: 20.000 ng

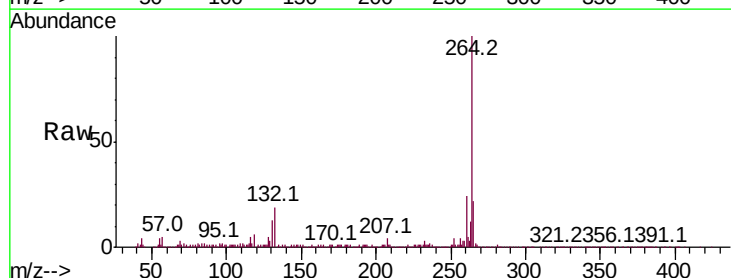
RT: 15.69 min Scan# 2270

Delta R.T. -0.00 min

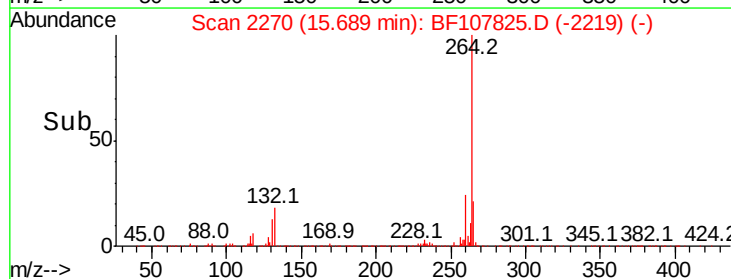
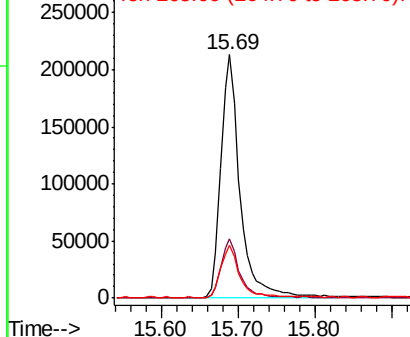
Lab File: BF107825.D

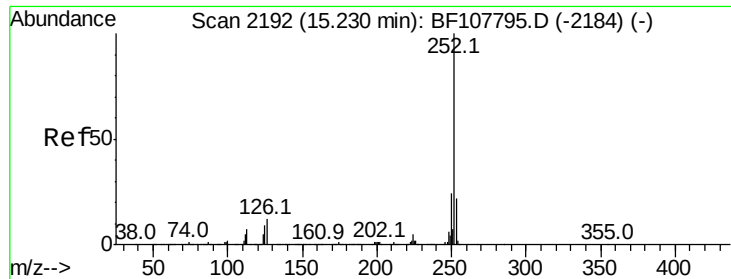
Acq: 31 Jul 2018 2:34

Tgt Ion:	264	Resp:	371165
Ion Ratio	Lower	Upper	
264	100		
260	24.1	19.2	28.8
265	21.5	17.5	26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 33.066 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Instrument :

BNA_F

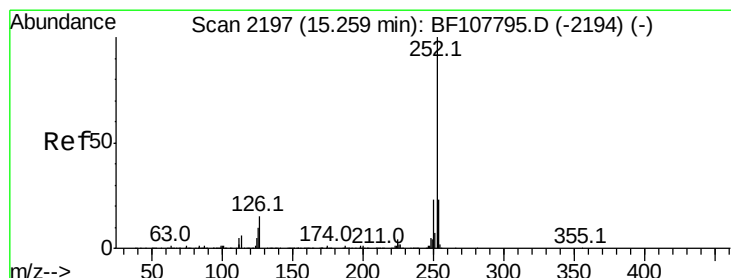
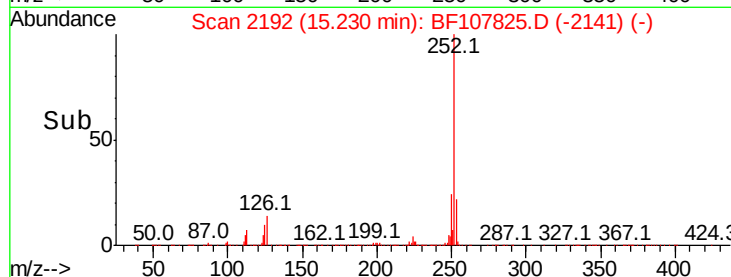
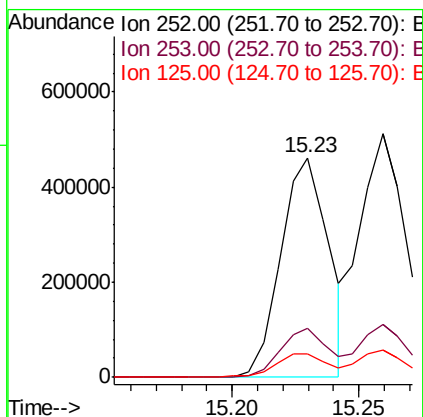
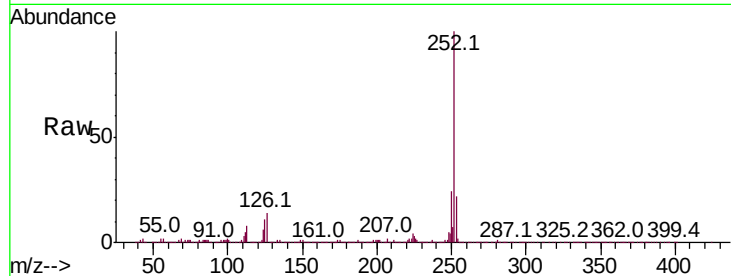
ClientSampleId :

TOPSOIL-072618MSD

Tot Ion:	252	Resp:	605304
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.0	25.6
125	10.5	9.0	13.6

Manual Integrations
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#88

Benzo(k)fluoranthene

Concen: 33.588 ng

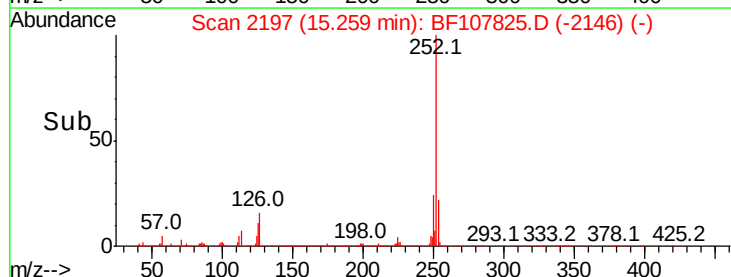
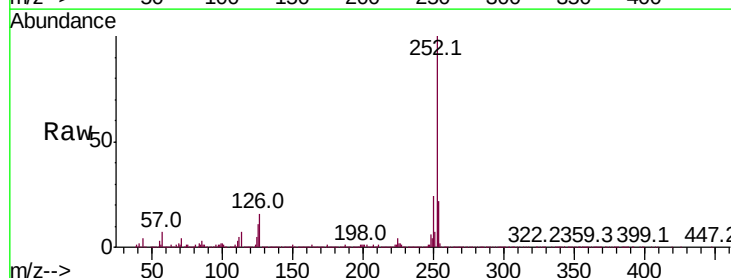
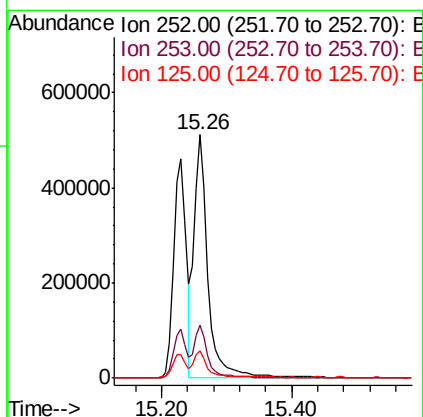
RT: 15.26 min Scan# 2197

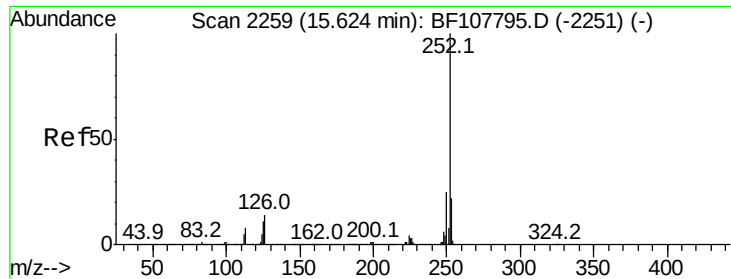
Delta R.T. -0.00 min

Lab File: BF107825.D

Acq: 31 Jul 2018 2:34

Tgt Ion:	252	Resp:	754888
Ion Ratio	Lower	Upper	
252	100		
253	21.6	17.9	26.9
125	11.2	10.2	15.2





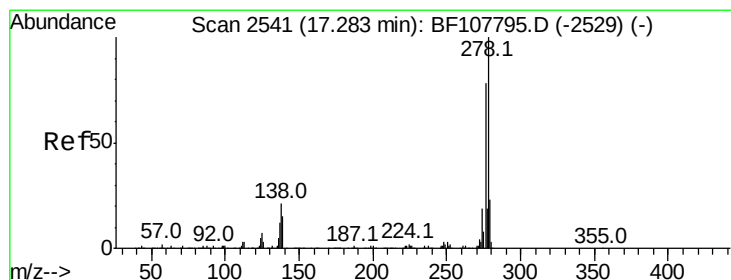
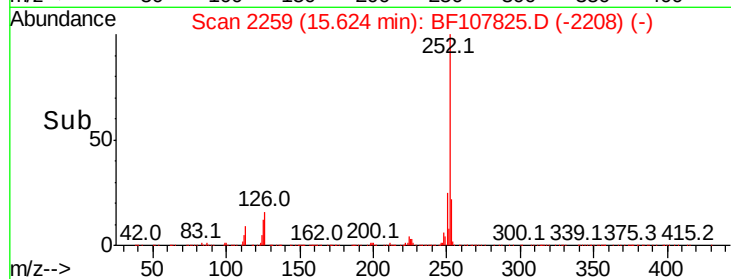
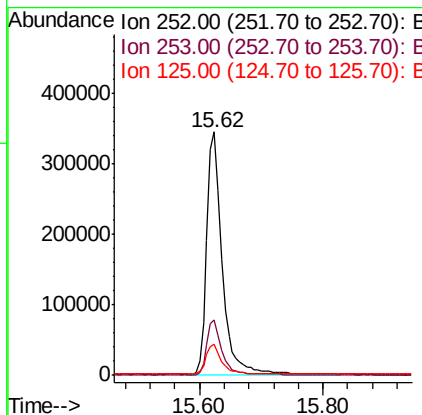
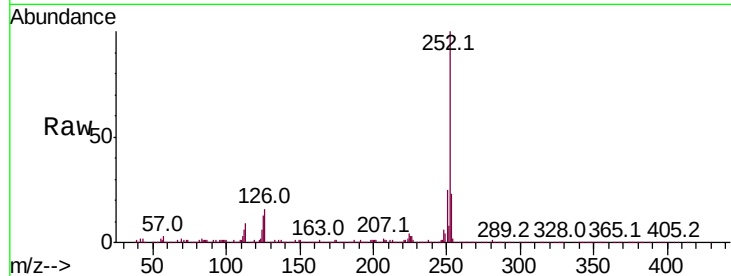
#89
Benzo(a)pyrene
Concen: 31.530 ng
RT: 15.62 min Scan# 2259
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Instrument :
BNA_F
ClientSampleId :
TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	12.9	9.8	14.6

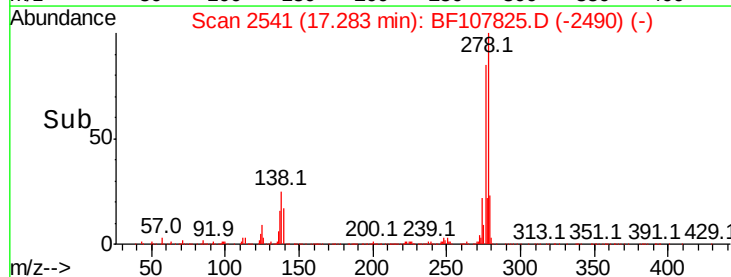
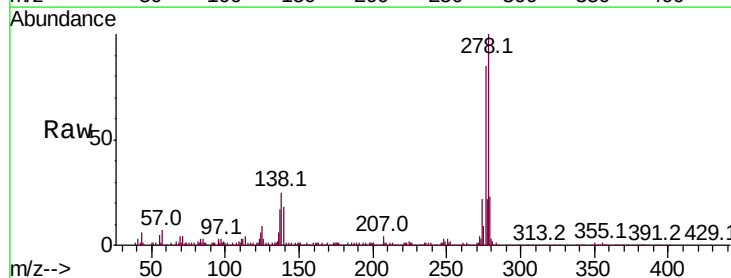
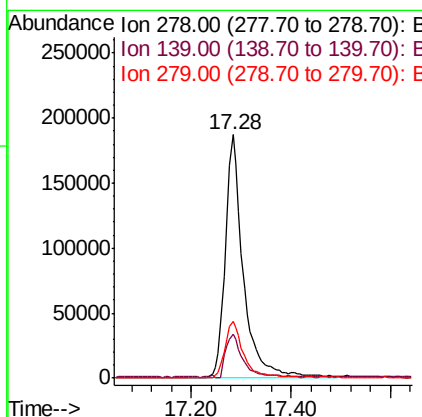
Manual Integrations
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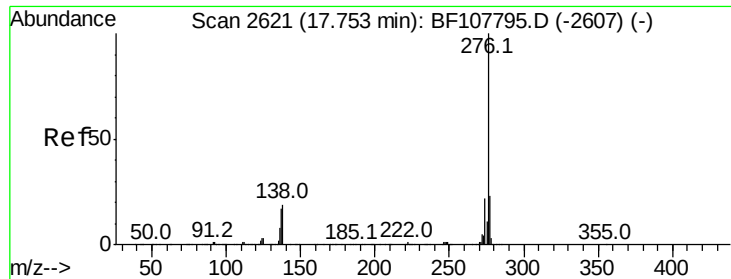
Sohil
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#90
Dibenzo(a,h)anthracene
Concen: 28.916 ng
RT: 17.28 min Scan# 2541
Delta R.T. -0.00 min
Lab File: BF107825.D
Acq: 31 Jul 2018 2:34

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.9	15.9	23.9
279	23.3	19.0	28.4





#91
 Benzo(a,h,i)perylene
 Concen: 28.063 ng
 RT: 17.75 min Scan# 2621
 Delta R.T. -0.00 min
 Lab File: BF107825.D
 Acq: 31 Jul 2018 2:34

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL-072618MSD

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.0	17.9	26.9
138	23.1	21.8	32.8

Manual Integrations
 APPROVED

Sohil
 7/31/2018 2:43:04 PM

