

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121619\
 Data File : BF118203.D
 Acq On : 16 Dec 2019 18:22
 Operator : JU
 Sample : K6110-04MSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

Manual Integrations
 APPROVED

mohammad
 12/17/2019 3:19:26 PM

Quant Time: Dec 17 03:35:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	90552	20.00	ng	0.00
21) Naphthalene-d8	8.15	136	354171	20.00	ng	0.00
39) Acenaphthene-d10	9.92	164	189277	20.00	ng	0.00
64) Phenanthrene-d10	11.41	188	368852	20.00	ng	0.00
76) Chrysene-d12	14.06	240	281680	20.00	ng	0.00
87) Perylene-d12	15.55	264	277453	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.49	112	732273	141.64	ng	0.00
7) Phenol-d6	6.50	99	858865	137.34	ng	0.00
23) Nitrobenzene-d5	7.43	82	610222	96.93	ng	0.00
42) 2,4,6-Tribromophenol	10.71	330	374303	162.79	ng	0.00
45) 2-Fluorobiphenyl	9.23	172	1276448	102.62	ng	0.00
79) Terphenyl-d14	13.00	244	1725281	105.33	ng	0.00

Target Compounds					Qvalue	
2) 1,4-Dioxane	2.69	88	83629	38.362	ng	97
3) Pyridine	3.44	79	147897	26.296	ng	96
4) n-Nitrosodimethylamine	3.36	42	113860	47.059	ng	95
6) Aniline	6.53	93	124455	15.559	ng	91
8) 2-Chlorophenol	6.65	128	302748	51.932	ng	97
9) Benzaldehyde	6.42	77	68844	16.715	ng	98
10) Phenol	6.51	94	303846	42.606	ng	96
11) bis(2-Chloroethyl)ether	6.60	93	260893	50.582	ng	97
12) 1,3-Dichlorobenzene	6.80	146	326087	47.883	ng	99
13) 1,4-Dichlorobenzene	6.88	146	328388	47.887	ng	99
14) 1,2-Dichlorobenzene	7.03	146	315181	48.942	ng	97
15) Benzyl Alcohol	7.01	79	255109	52.262	ng	99
16) 2,2'-oxybis(1-Chloropropan	7.14	45	301269	48.580	ng	96
17) 2-Methylphenol	7.12	107	234682	50.614	ng	99
18) Hexachloroethane	7.37	117	119983	47.484	ng	94
19) n-Nitroso-di-n-propylamine	7.28	70	198702	52.292	ng	97
20) 3+4-Methylphenols	7.27	107	297464	51.075	ng	# 86
22) Acetophenone	7.27	105	423624	49.786	ng	96
24) Nitrobenzene	7.45	77	301818	48.796	ng	97
25) Isophorone	7.69	82	545709	51.134	ng	98
26) 2-Nitrophenol	7.77	139	165614	50.096	ng	98
27) 2,4-Dimethylphenol	7.80	122	264752	60.038	ng	99
28) bis(2-Chloroethoxy)methane	7.90	93	337804	48.441	ng	99
29) 2,4-Dichlorophenol	8.01	162	261173	50.804	ng	99
30) 1,2,4-Trichlorobenzene	8.09	180	282498	47.022	ng	99
31) Naphthalene	8.17	128	891839	50.139	ng	99
32) Benzoic acid	7.93	122	158825	39.890	ng	97
33) 4-Chloroaniline	8.22	127	54548	7.102	ng	99
34) Hexachlorobutadiene	8.29	225	167597	46.521	ng	99
35) Caprolactam	8.59	113	62137m	39.194	ng	
36) 4-Chloro-3-methylphenol	8.71	107	275441	50.914	ng	99
37) 2-Methylnaphthalene	8.87	142	619855	51.474	ng	99
38) 1-Methylnaphthalene	8.97	142	576112	50.953	ng	99
40) 1,2,4,5-Tetrachlorobenzene	9.03	216	281137	49.031	ng	98

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF121619\
 Data File : BF118203.D
 Acq On : 16 Dec 2019 18:22
 Operator : JU
 Sample : K6110-04MSD
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

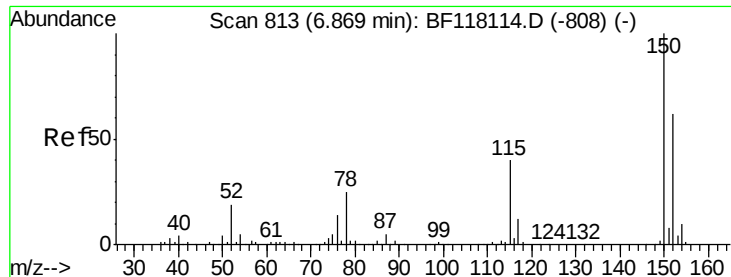
Manual Integrations
 APPROVED

mohammad
 12/17/2019 3:19:26 PM

Quant Time: Dec 17 03:35:02 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 06 17:34:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Hexachlorocyclopentadiene	9.02	237	268347	104.454	nq	99
43) 2,4,6-Trichlorophenol	9.15	196	193191	50.462	nq	99
44) 2,4,5-Trichlorophenol	9.19	196	206039	51.946	nq	99
46) 1,1'-Biphenyl	9.33	154	753513	50.476	nq	99
47) 2-Chloronaphthalene	9.36	162	584879	48.706	nq	97
48) 2-Nitroaniline	9.46	65	163240	47.669	nq	96
49) Acenaphthylene	9.77	152	941365	53.150	nq	100
50) Dimethylphthalate	9.63	163	767080	54.867	nq	98
51) 2,6-Dinitrotoluene	9.70	165	159129	52.344	nq	99
52) Acenaphthene	9.95	154	543009	50.230	nq	98
53) 3-Nitroaniline	9.87	138	52429	14.655	nq	98
54) 2,4-Dinitrophenol	9.98	184	157859	104.372	nq	98
55) Dibenzofuran	10.12	168	832903	52.581	nq	99
56) 4-Nitrophenol	10.04	139	229821	92.563	nq	99
57) 2,4-Dinitrotoluene	10.11	165	217289	53.551	nq	92
58) Fluorene	10.47	166	665931	52.901	nq	100
59) 2,3,4,6-Tetrachlorophenol	10.24	232	177063	54.109	nq	99
60) Diethylphthalate	10.33	149	713085	51.768	nq	99
61) 4-Chlorophenyl-phenylether	10.46	204	327370	51.686	nq	97
62) 4-Nitroaniline	10.49	138	175474	47.027	nq	98
63) Azobenzene	10.62	77	622980	52.979	nq	99
65) 4,6-Dinitro-2-methylphenol	10.52	198	112699	55.326	nq	87
66) n-Nitrosodiphenylamine	10.57	169	593884	51.559	nq	99
67) 4-Bromophenyl-phenylether	10.95	248	206983	49.159	nq	# 88
68) Hexachlorobenzene	11.02	284	237907	48.005	nq	99
69) Atrazine	11.10	200	178898	81.234	nq	97
70) Pentachlorophenol	11.22	266	264595	113.530	nq	99
71) Phenanthrene	11.43	178	1011303	51.577	nq	100
72) Anthracene	11.49	178	1048457	53.602	nq	100
73) Carbazole	11.64	167	938052	53.451	nq	100
74) Di-n-butylphthalate	11.97	149	1166659	53.117	nq	99
75) Fluoranthene	12.63	202	1071258	53.437	nq	99
77) Benzidine	12.75	184	374007	50.437	nq	98
78) Pyrene	12.86	202	1092129	49.200	nq	99
80) Butylbenzylphthalate	13.47	149	519061	51.633	nq	94
81) Benzo(a)anthracene	14.05	228	983076	50.473	nq	99
82) 3,3'-Dichlorobenzidine	14.01	252	149174	23.320	nq	98
83) Chrysene	14.09	228	959651	51.580	nq	99
84) Bis(2-ethylhexyl)phthalate	14.03	149	736301	55.545	nq	# 97
85) Di-n-octyl phthalate	14.64	149	1188257	59.175	nq	100
86) Indeno(1,2,3-cd)pyrene	17.06	276	932464	59.565	nq	100
88) Benzo(b)fluoranthene	15.12	252	900256	49.061	nq	99
89) Benzo(k)fluoranthene	15.14	252	889036m	50.433	nq	
90) Benzo(a)pyrene	15.49	252	853314	52.653	nq	98
91) Dibenzo(a,h)anthracene	17.08	278	785219	56.489	nq	99
92) Benzo(g,h,i)perylene	17.52	276	780628	58.442	nq	99

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



#1

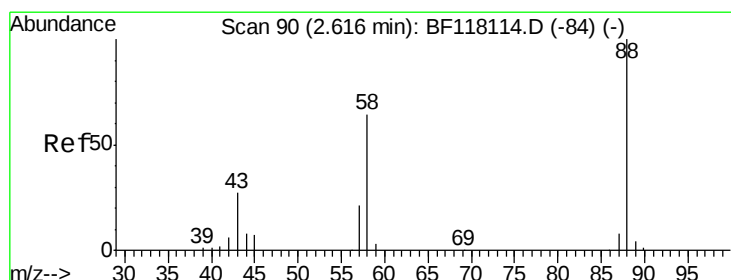
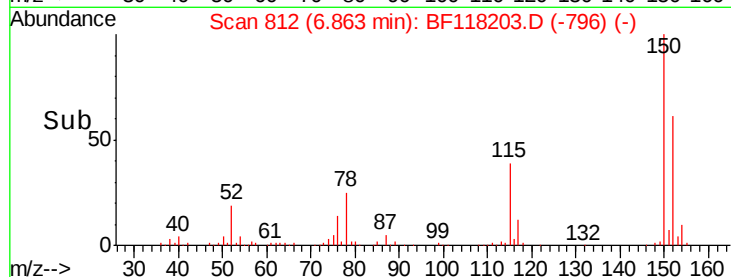
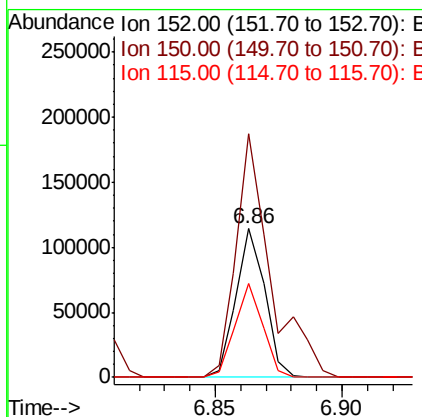
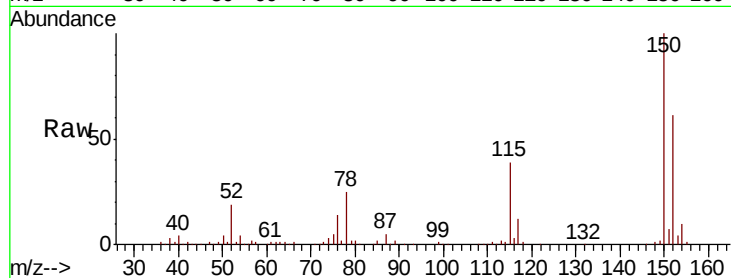
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.86 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
152	100		
150	163.7	128.3	192.5
115	63.2	51.1	76.7

Manual Integrations
APPROVED

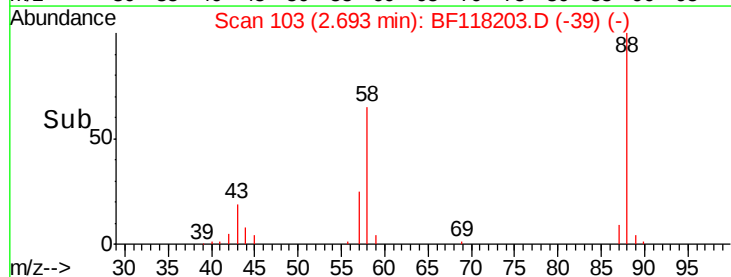
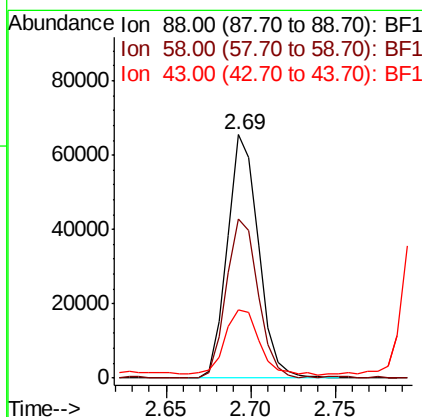
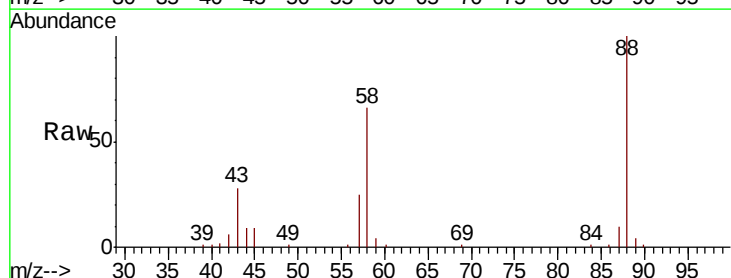
mohammad
12/17/2019 3:19:26 PM

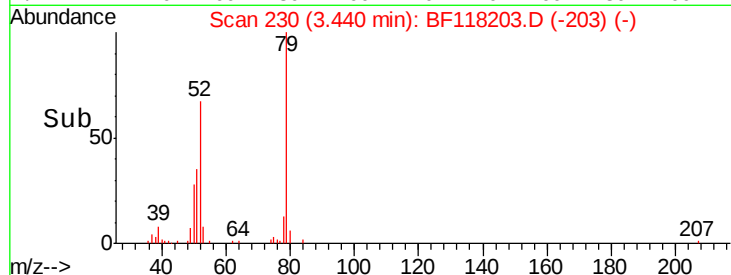
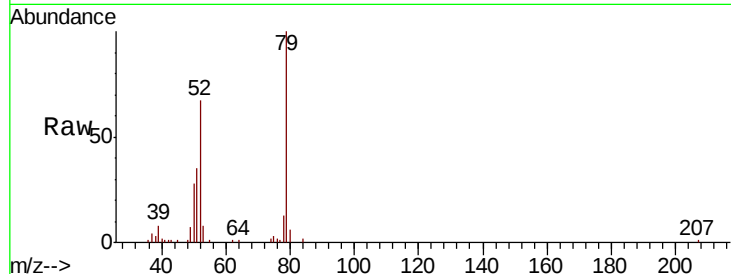
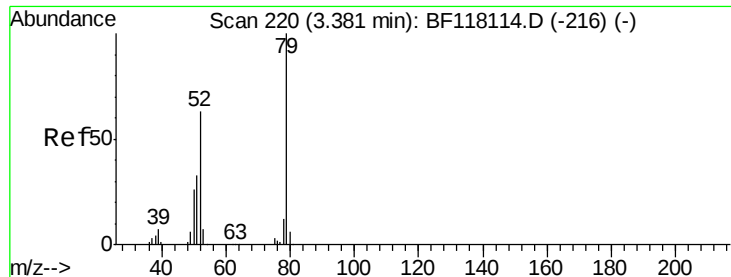


#2

1,4-Dioxane
Concen: 38.362 ng
RT: 2.69 min Scan# 103
Delta R.T. 0.08 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
88	100		
58	67.2	52.2	78.4
43	29.9	21.4	32.2





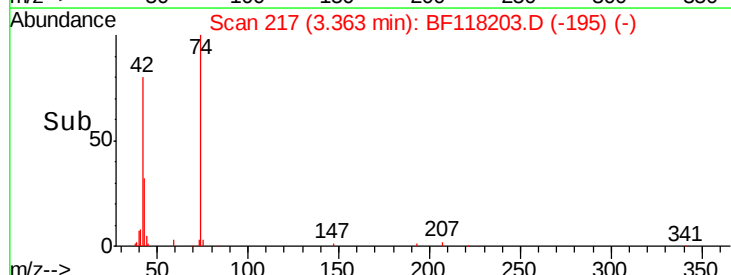
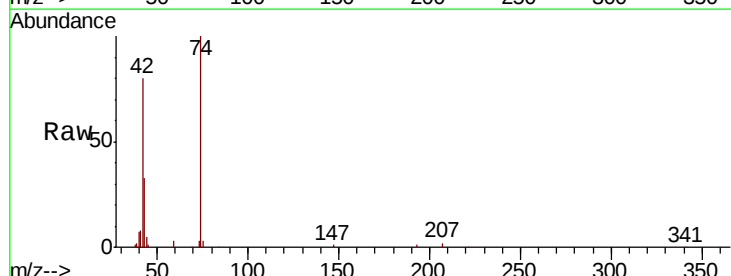
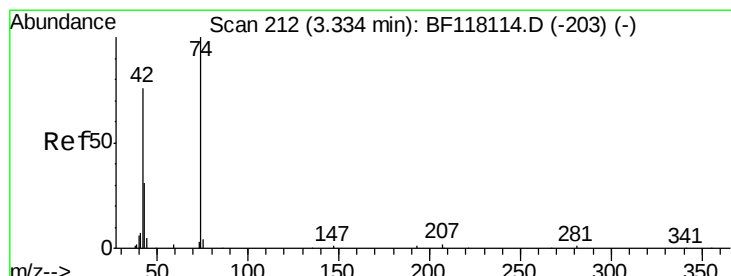
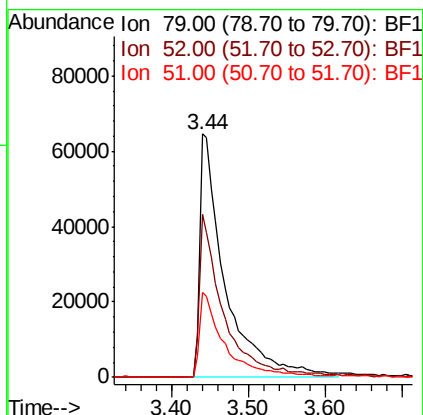
#3
 Pvridine
 Concen: 26.296 ng
 RT: 3.44 min Scan# 230
 Delta R.T. 0.06 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tot Ion	Ion	Ratio	Lower	Upper
79	79	100		
52	52	67.2	50.7	76.1
51	51	35.0	26.4	39.6

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

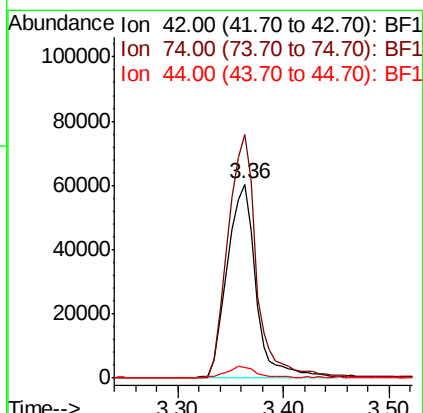
Manual Integrations
 APPROVED

mohammad
 12/17/2019 3:19:26 PM



#4
 n-Nitrosodimethylamine
 Concen: 47.059 ng
 RT: 3.36 min Scan# 217
 Delta R.T. 0.03 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tgt Ion	Ion	Ratio	Lower	Upper
42	42	100		
74	74	125.4	104.6	157.0
44	44	5.7	5.1	7.7





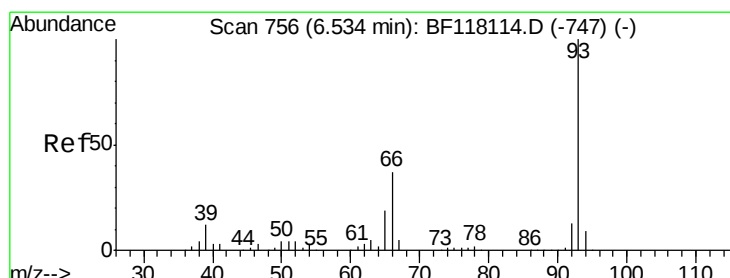
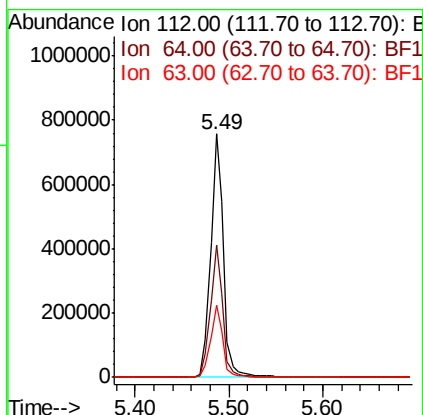
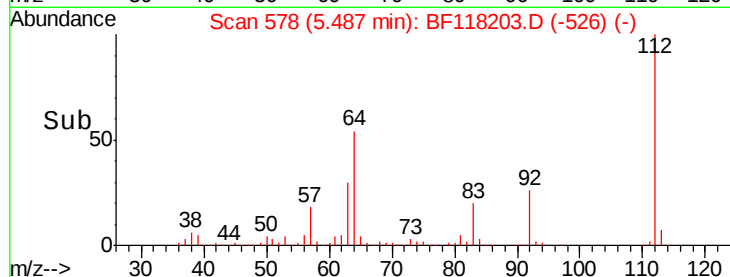
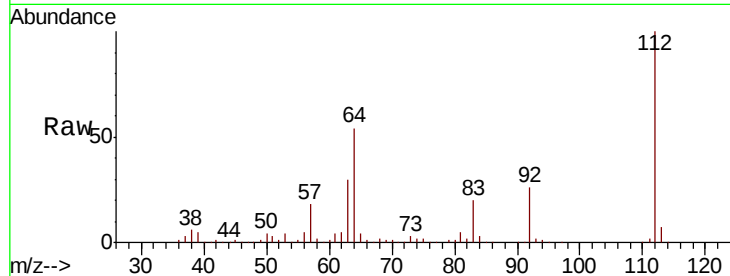
#5
2-Fluorophenol
Concen: 141.637 ng
RT: 5.49 min Scan# 578
Delta R.T. 0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Resp Lower	Upper
112	100		
64	54.1	41.3	61.9
63	29.9	22.4	33.6

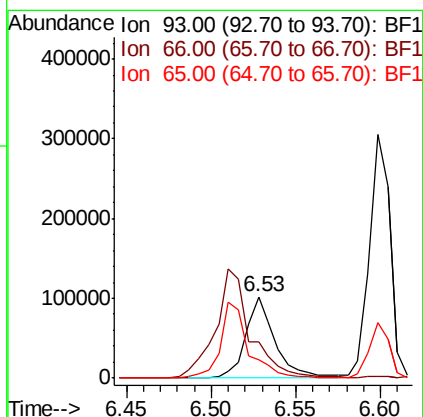
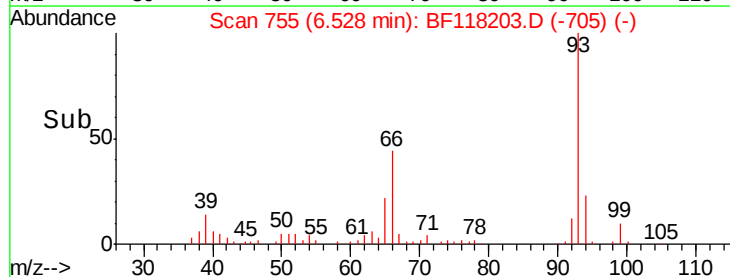
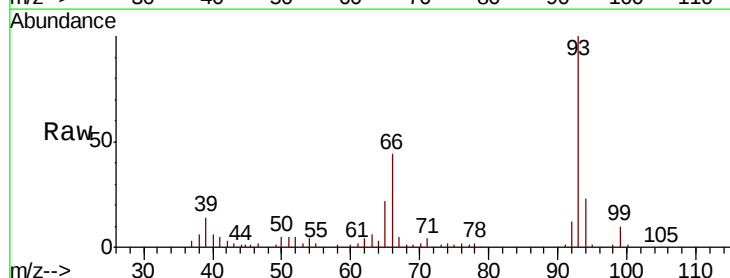
Manual Integrations
APPROVED

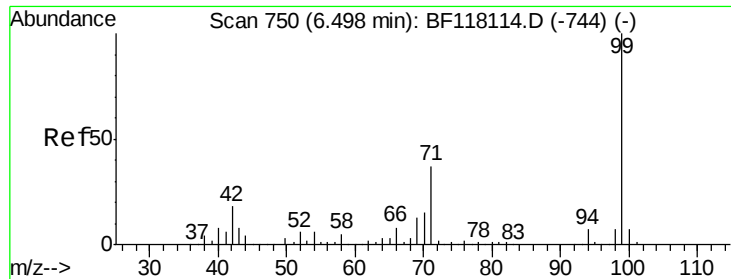
mohammad
12/17/2019 3:19:26 PM



#6
Aniline
Concen: 15.559 ng
RT: 6.53 min Scan# 755
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Resp Lower	Upper
93	100		
66	44.0	30.2	45.2
65	22.3	15.5	23.3





#7

Phenol-d6

Concen: 137.345 ng

RT: 6.50 min Scan# 750

Delta R.T. 0.00 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

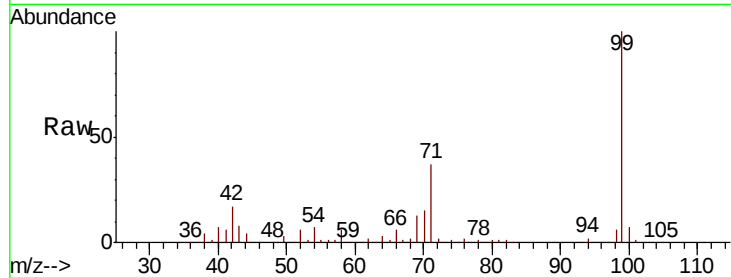
ClientSampleId :

HD-02-121219MSD

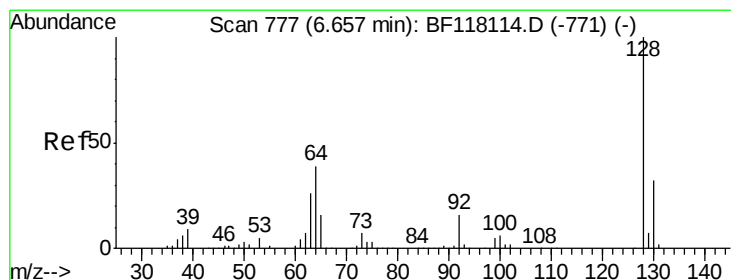
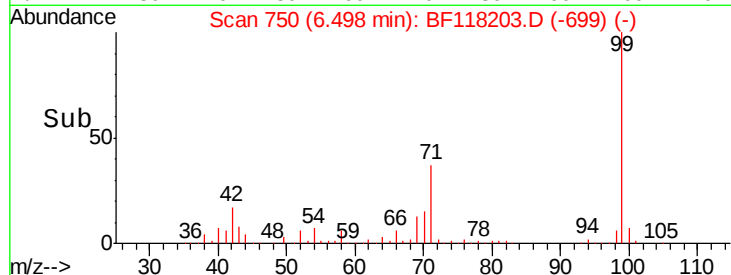
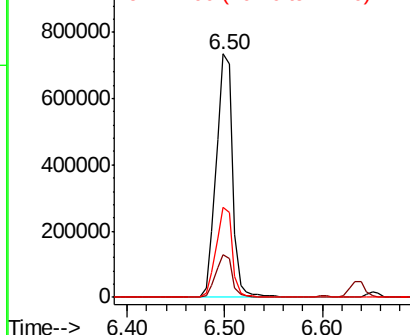
Tot Ion:	99	Resp:	858865
Ion Ratio	Lower	Upper	
99	100		
42	17.5	14.1	21.1
71	37.0	29.7	44.5

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



Abundance Ion 99.00 (98.70 to 99.70): BF1
Ion 42.00 (41.70 to 42.70): BF1
Ion 71.00 (70.70 to 71.70): BF1



#8

2-Chlorophenol

Concen: 51.932 ng

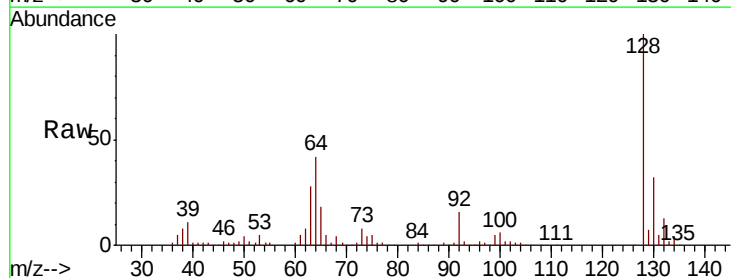
RT: 6.65 min Scan# 776

Delta R.T. -0.01 min

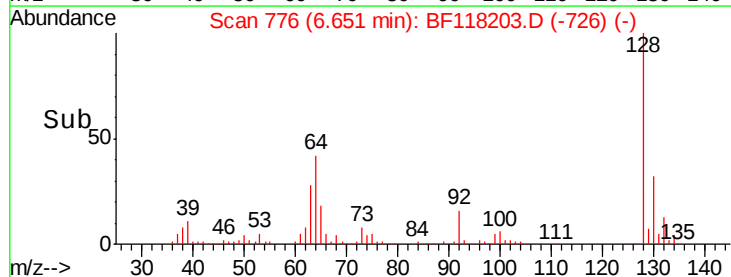
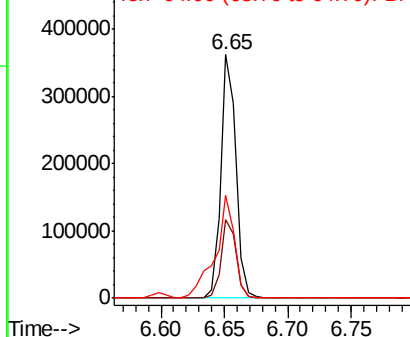
Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Tgt Ion:	128	Resp:	302748
Ion Ratio	Lower	Upper	
128	100		
130	32.3	12.1	52.1
64	42.3	19.3	59.3



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





#9

Benzaldehyde

Concen: 16.715 ng

RT: 6.42 min Scan# 736

Delta R.T. -0.00 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

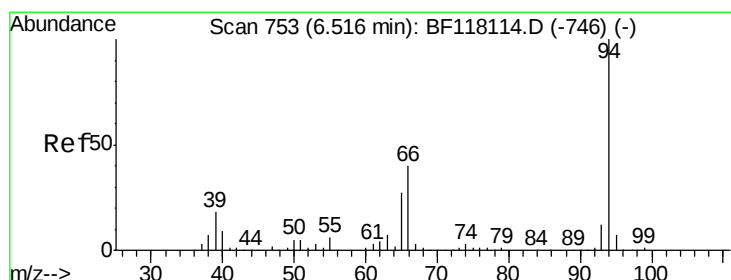
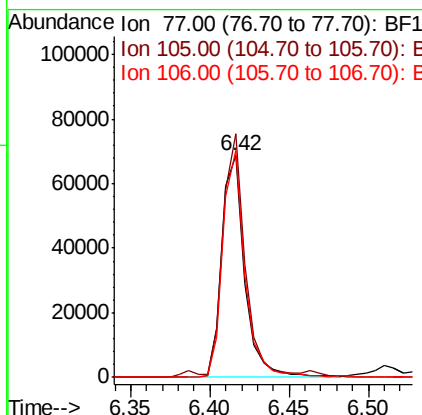
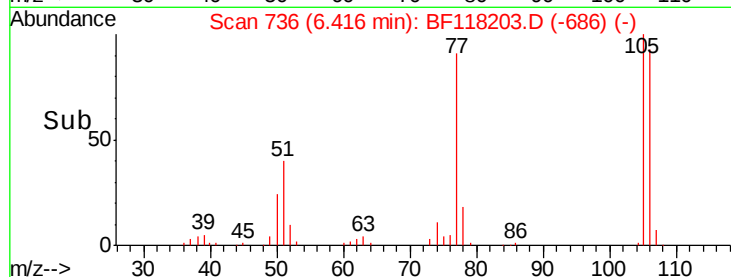
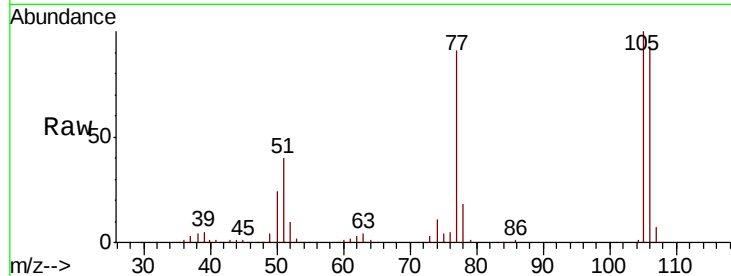
ClientSampleId :

HD-02-121219MSD

Tot Ion:	77	Resp:	68844
Ion	Ratio	Lower	Upper
77	100		
105	110.0	86.4	126.4
106	102.7	83.8	123.8

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



#10

Phenol

Concen: 42.606 ng

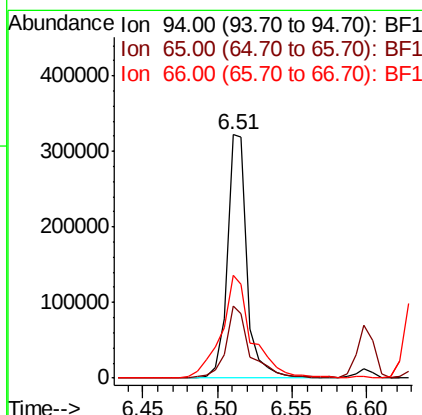
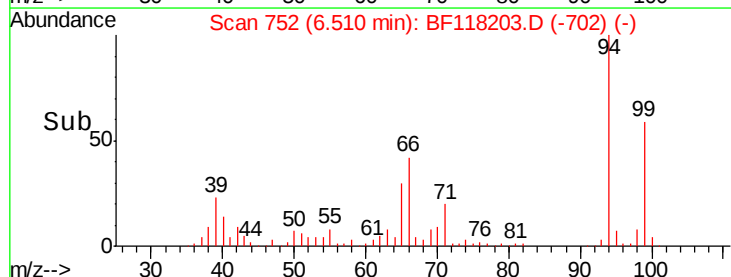
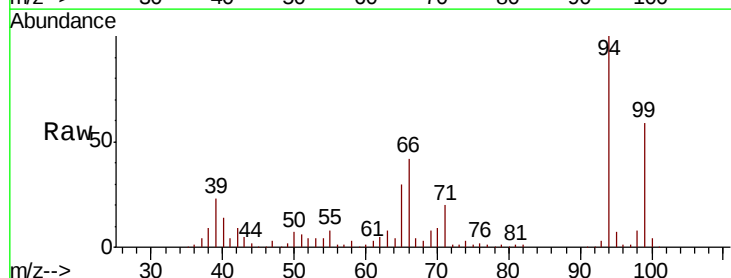
RT: 6.51 min Scan# 752

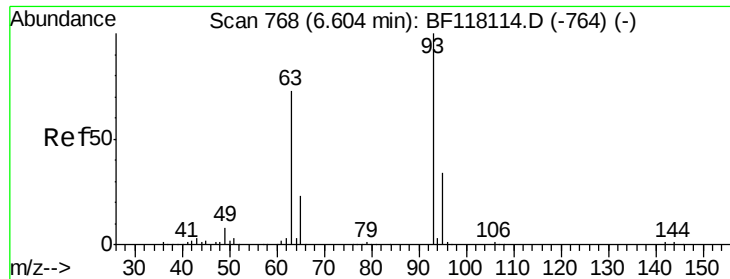
Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Tgt Ion:	94	Resp:	303846
Ion	Ratio	Lower	Upper
94	100		
65	29.6	7.3	47.3
66	42.4	20.2	60.2





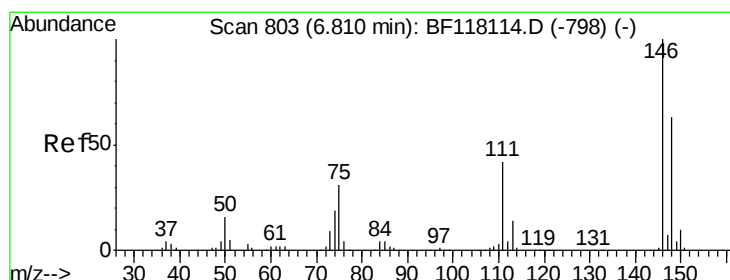
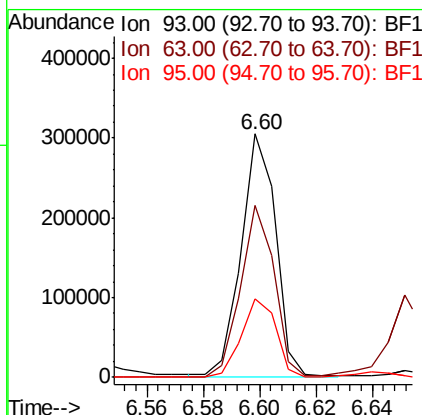
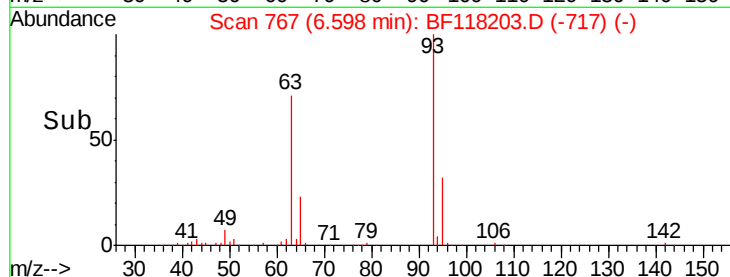
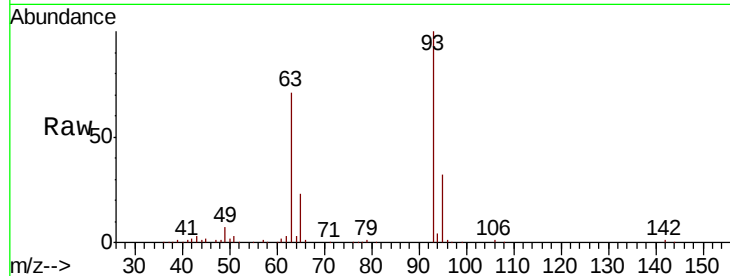
#11
bis(2-Chloroethyl)ether
Concen: 50.582 ng
RT: 6.60 min Scan# 767
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
93	100		
63	70.7	53.2	93.2
95	32.2	13.8	53.8

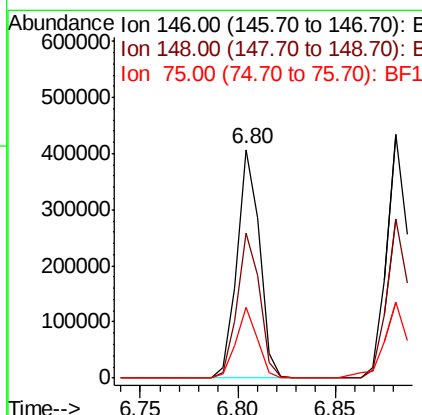
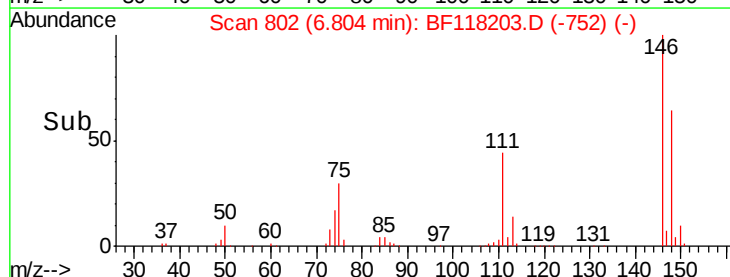
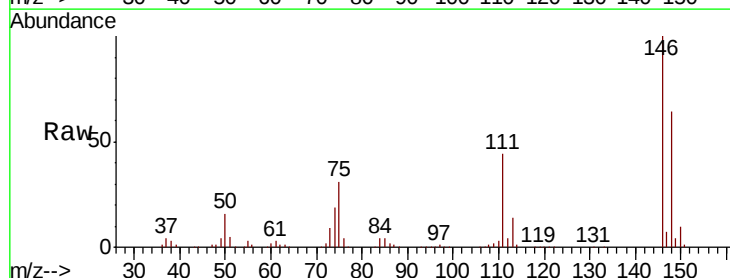
Manual Integrations
APPROVED

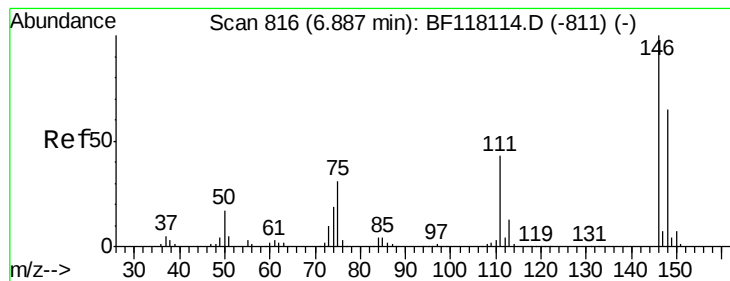
mohammad
12/17/2019 3:19:26 PM



#12
1,3-Dichlorobenzene
Concen: 47.883 ng
RT: 6.80 min Scan# 802
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.2	75.4
75	30.8	24.6	37.0





#13

1,4-Dichlorobenzene

Concen: 47.887 ng

RT: 6.88 min Scan# 815

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

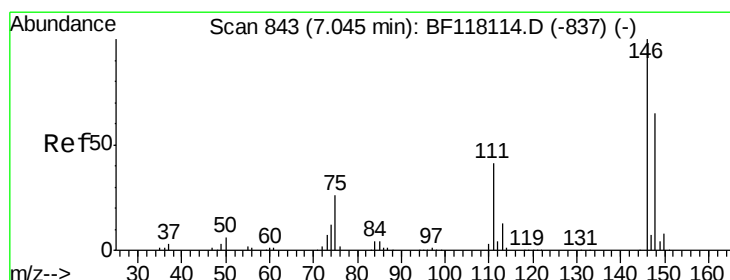
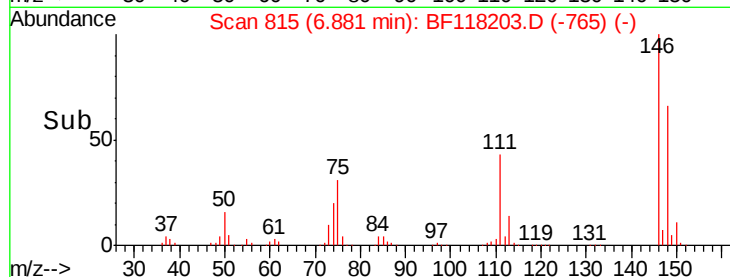
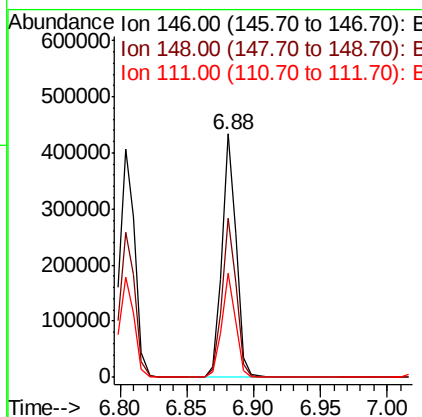
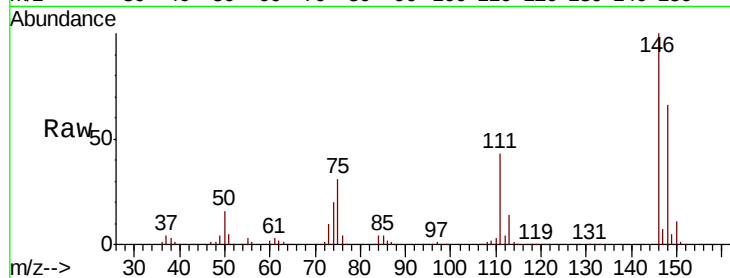
ClientSampleId :

HD-02-121219MSD

Tot Ion:	146	Resp:	328388
Ion Ratio	Lower	Upper	
146	100		
148	65.6	52.1	78.1
111	42.9	34.6	52.0

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



#14

1,2-Dichlorobenzene

Concen: 48.942 ng

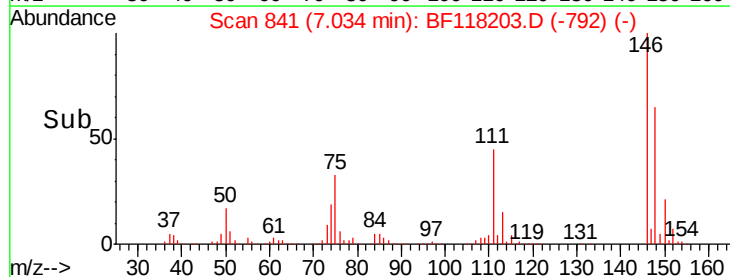
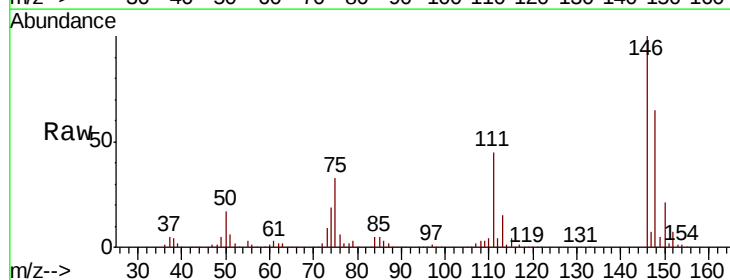
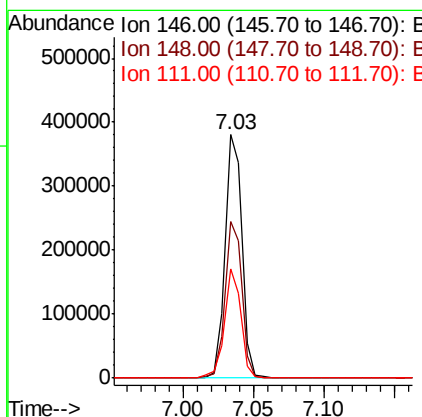
RT: 7.03 min Scan# 841

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Tgt Ion:	146	Resp:	315181
Ion Ratio	Lower	Upper	
146	100		
148	64.6	52.2	78.2
111	44.9	33.1	49.7





#15

Benzyl Alcohol

Concen: 52.262 ng

RT: 7.01 min Scan# 837

Delta R.T. 0.00 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

ClientSampleId :

HD-02-121219MSD

Tot Ion: 79 Resp: 255109

Ion Ratio Lower Upper

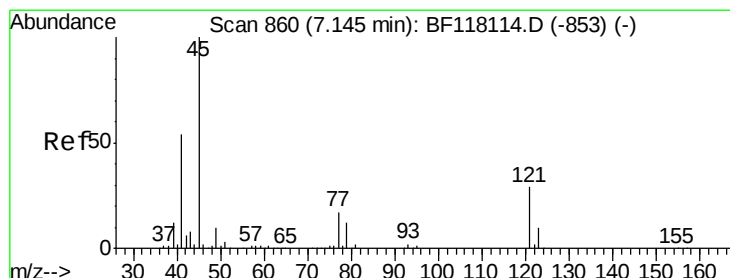
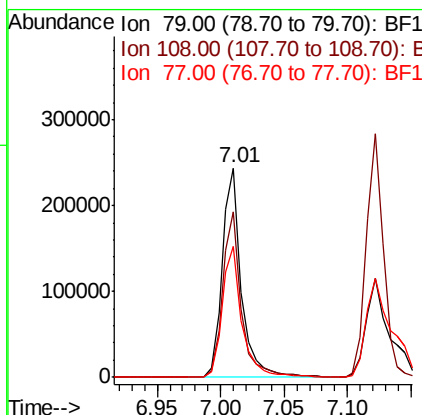
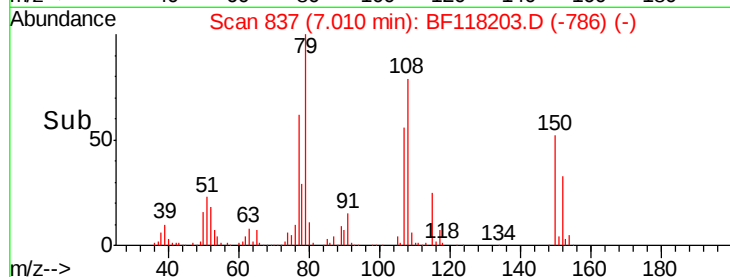
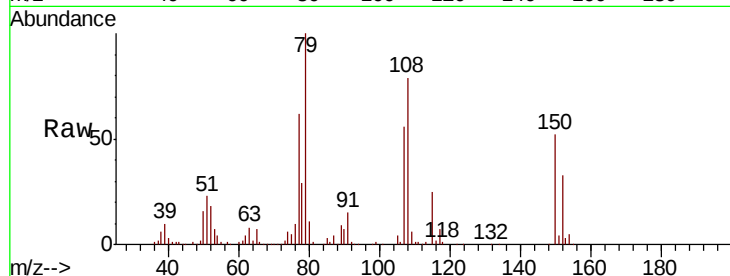
79 100

108 79.0 62.7 94.1

77 62.5 51.4 77.2

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



#16

2,2'-oxybis(1-chloropropane)

Concen: 48.580 ng

RT: 7.14 min Scan# 859

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

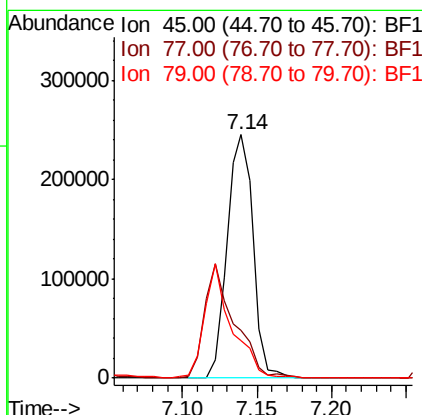
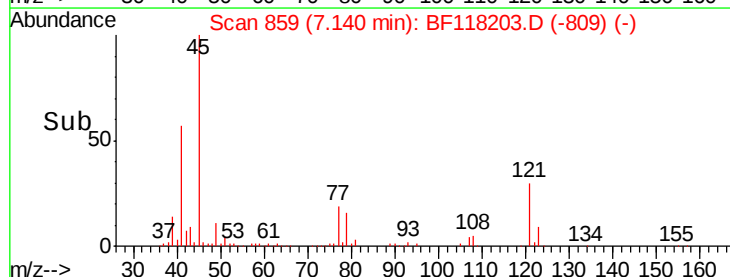
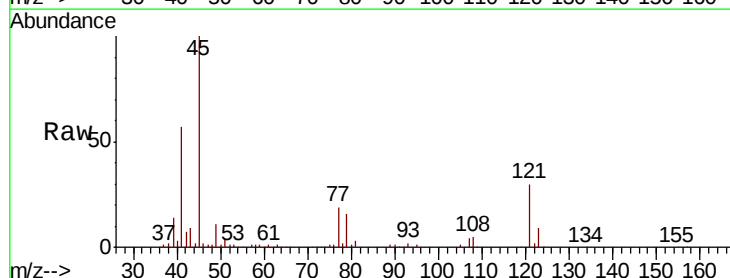
Tgt Ion: 45 Resp: 301269

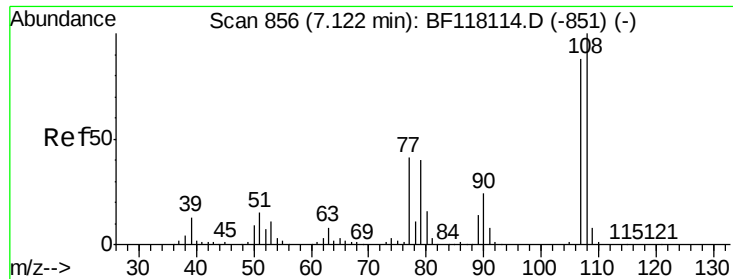
Ion Ratio Lower Upper

45 100

77 19.4 0.0 38.0

79 15.6 0.0 33.2





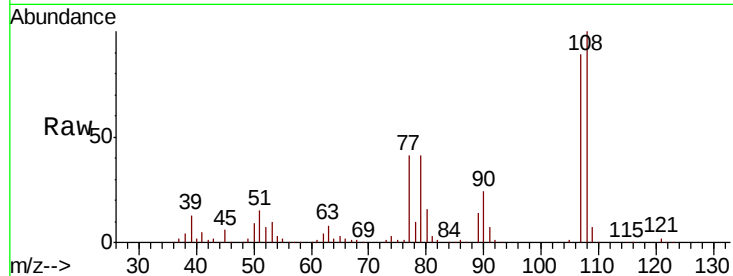
#17
2-Methylphenol
Concen: 50.614 ng
RT: 7.12 min Scan# 856
Delta R.T. 0.00 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
107	100		
108	112.6	91.1	136.7
77	46.0	37.8	56.6
79	46.0	37.0	55.6

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



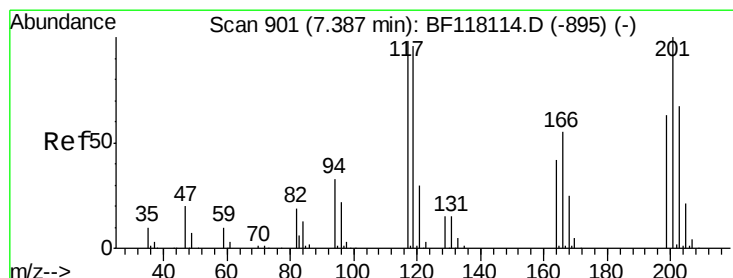
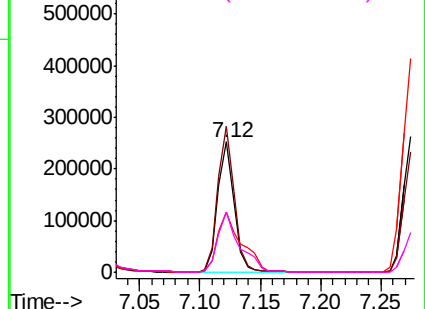
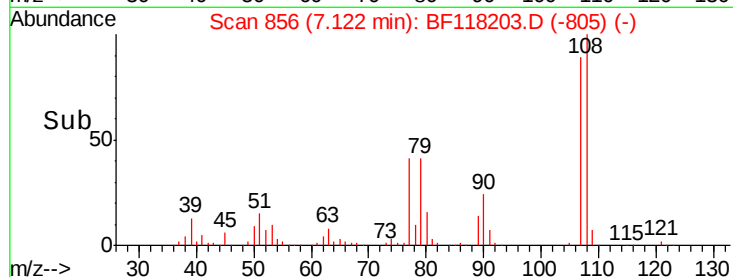
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

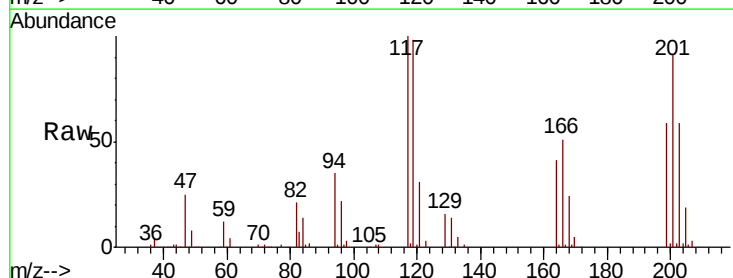
Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#18
Hexachloroethane
Concen: 47.484 ng
RT: 7.37 min Scan# 899
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.0	78.2	117.4
201	90.8	81.6	122.4

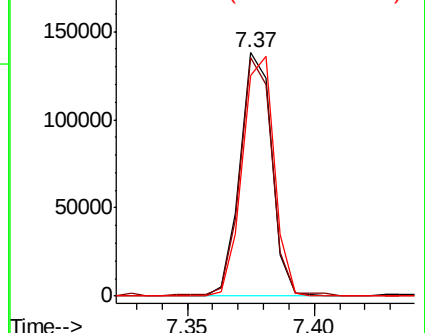
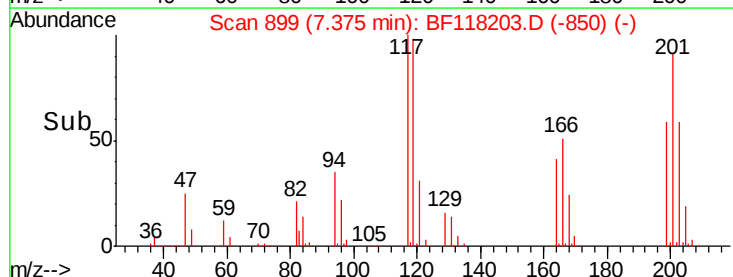


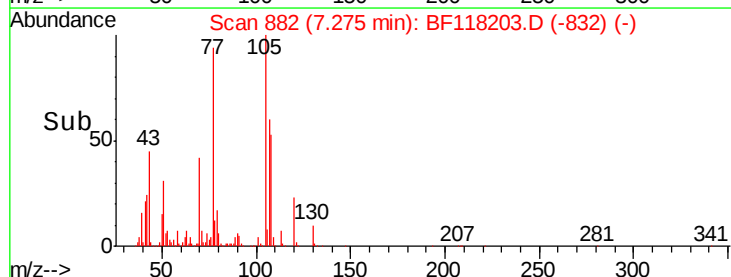
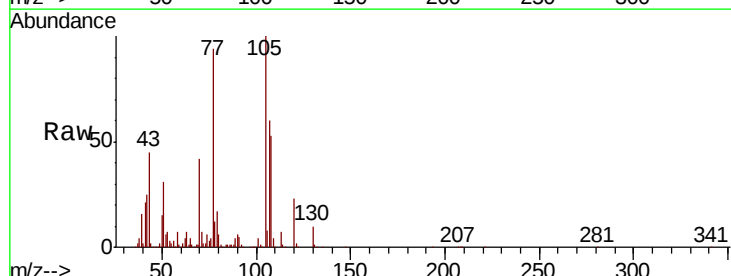
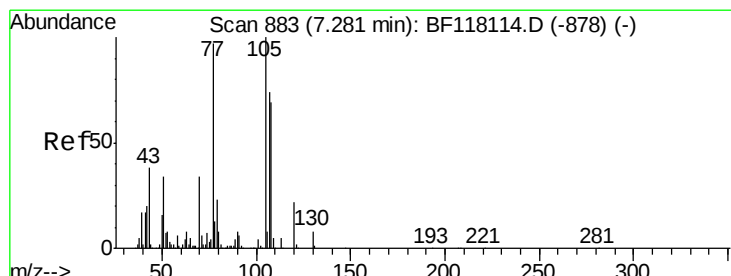
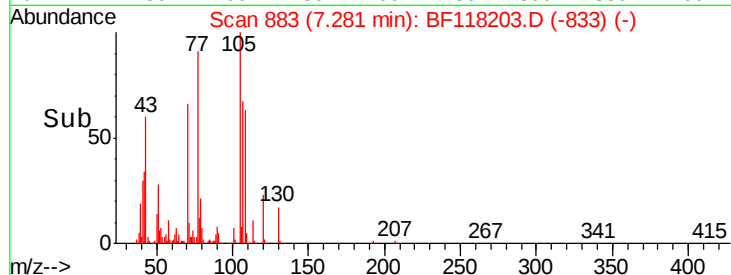
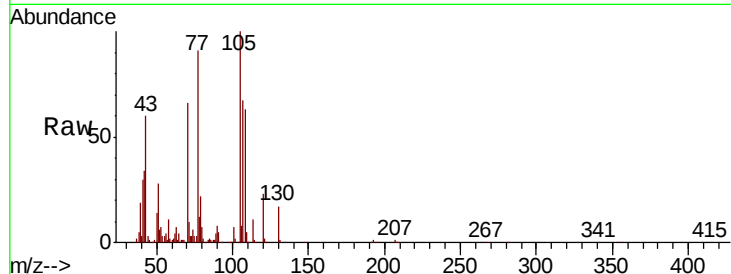
Abundance

Ion 117.00 (116.70 to 117.70): E

Ion 119.00 (118.70 to 119.70): E

Ion 201.00 (200.70 to 201.70): E





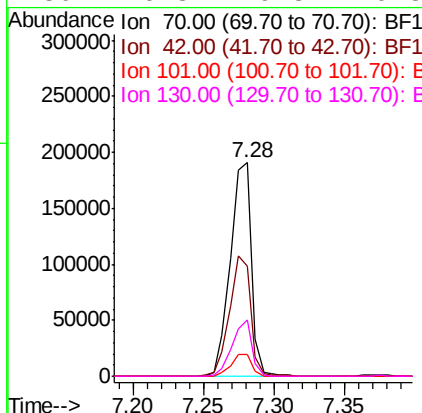
#19
n-Nitroso-di-n-propylamine
Concen: 52.292 ng
RT: 7.28 min Scan# 883
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
70	100		
42	51.6	43.2	64.8
101	10.2	8.1	12.1
130	26.3	19.8	29.8

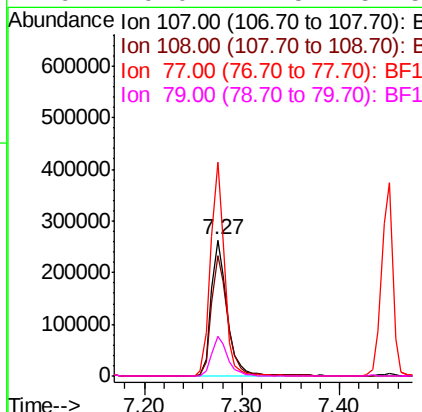
Manual Integrations
APPROVED

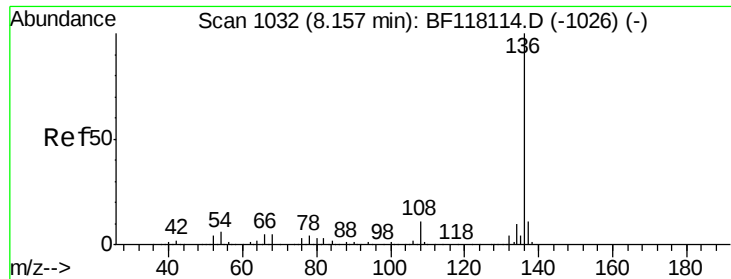
mohammad
12/17/2019 3:19:26 PM



#20
3+4-Methylphenols
Concen: 51.075 ng
RT: 7.27 min Scan# 882
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
107	100		
108	88.4	73.2	113.2
77	157.0	110.9	150.9#
79	29.0	11.5	51.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1031

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

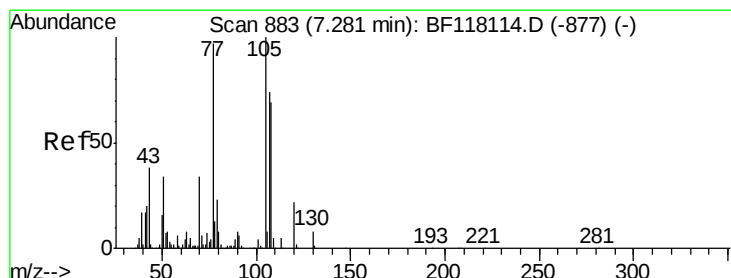
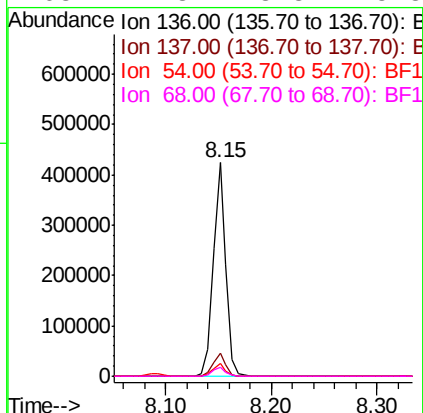
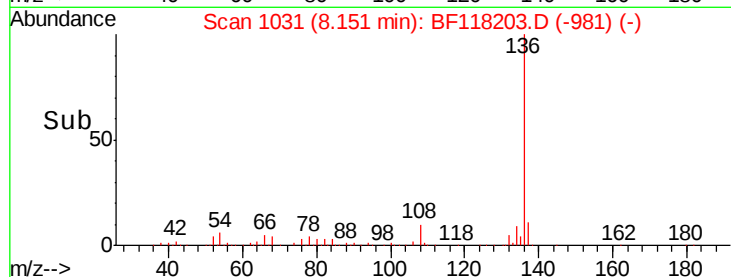
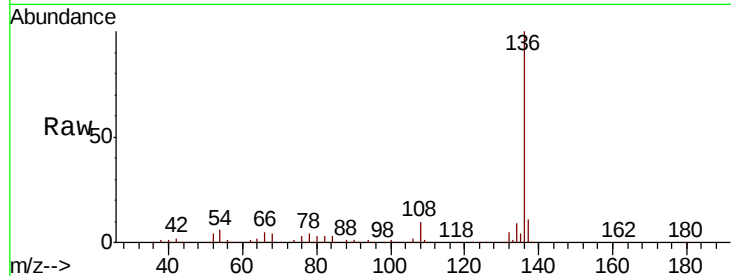
ClientSampleId :

HD-02-121219MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
136	100		354171		
137	10.9	9.0	13.6		
54	6.2	5.0	7.6		
68	4.3	3.8	5.8		

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



#22

Acetophenone

Concen: 49.786 ng

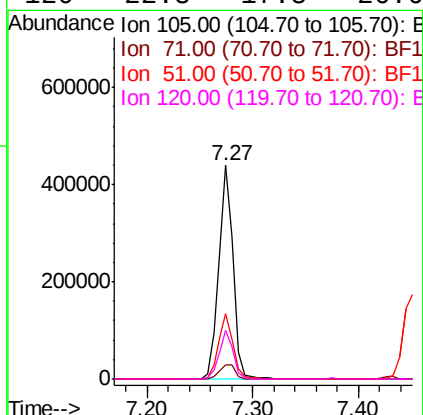
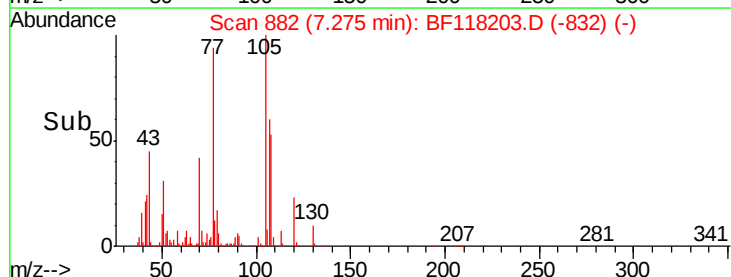
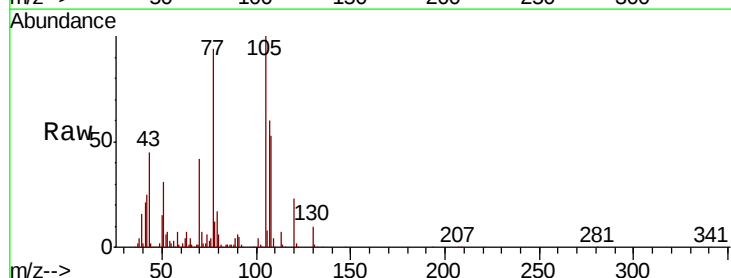
RT: 7.27 min Scan# 882

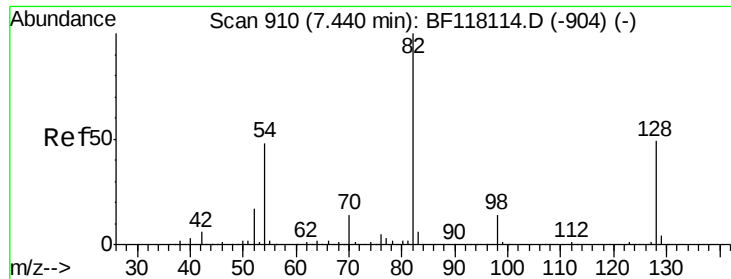
Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		423624		
71	6.8	4.7	7.1		
51	30.8	27.1	40.7		
120	22.8	17.8	26.6		





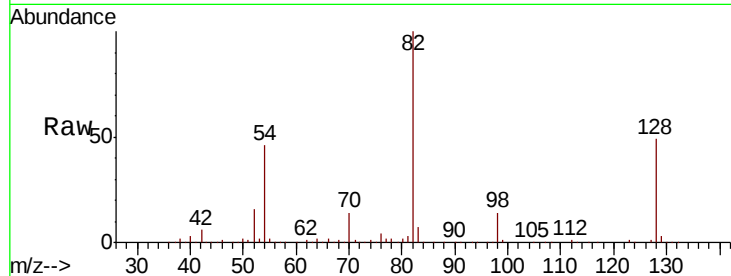
#23
Nitrobenzene-d5
Concen: 96.930 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

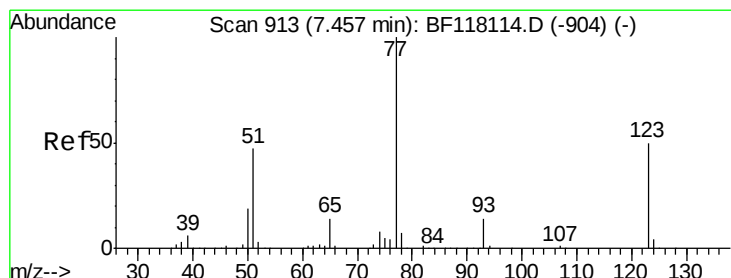
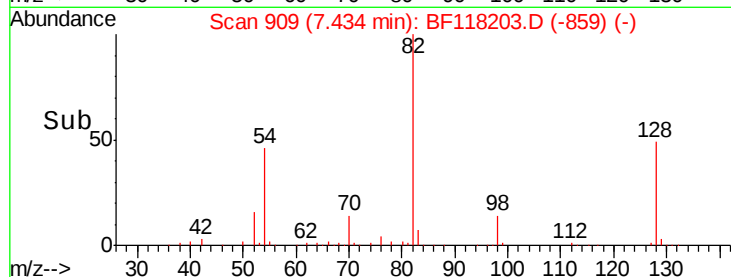
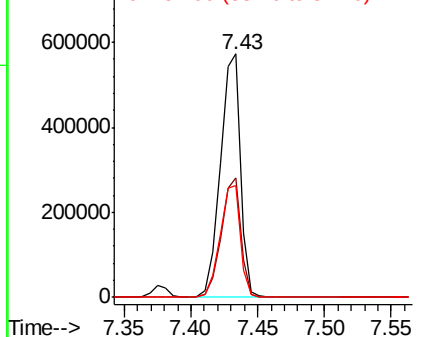
Tot Ion	Ratio	Lower	Upper
82	100		
128	49.2	39.1	58.7
54	45.7	38.2	57.2

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

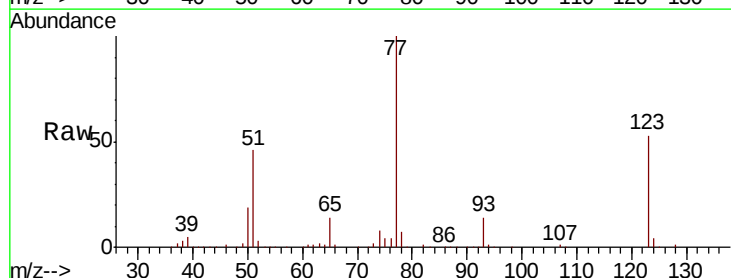


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

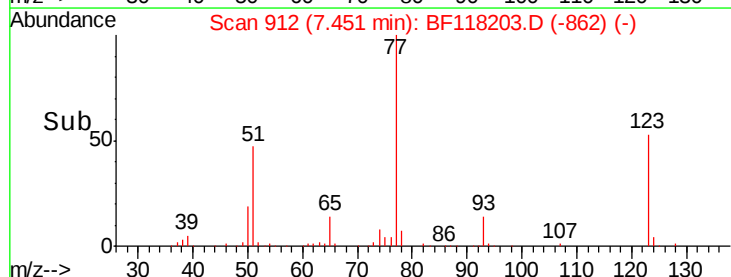
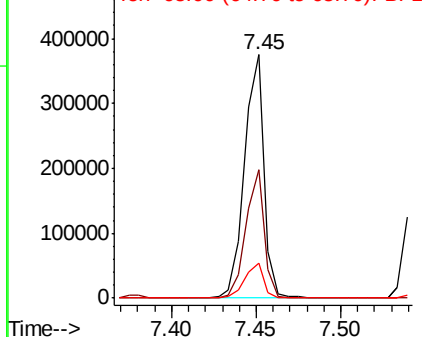


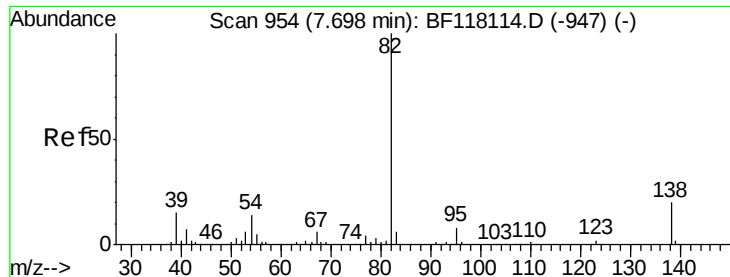
#24
Nitrobenzene
Concen: 48.796 ng
RT: 7.45 min Scan# 912
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
77	100		
123	52.8	40.1	60.1
65	14.2	10.9	16.3



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





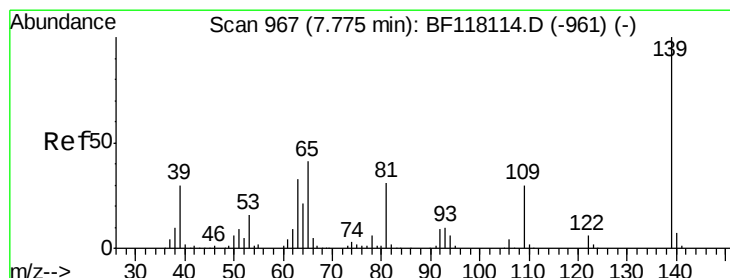
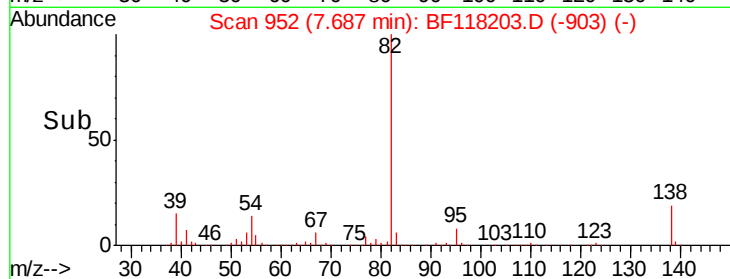
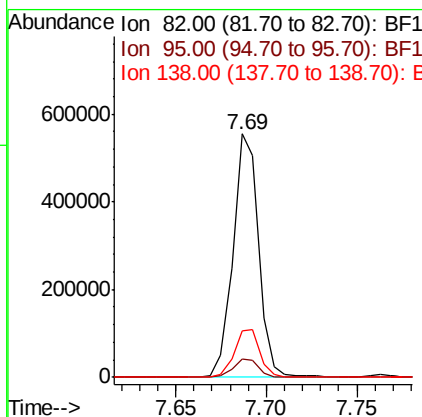
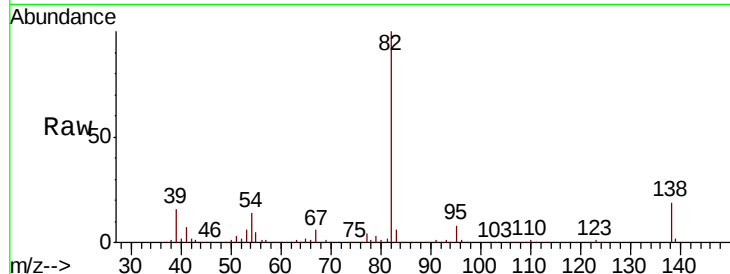
#25
Isophorone
Concen: 51.134 ng
RT: 7.69 min Scan# 952
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Resp	Lower	Upper
82	100	545709		
95	7.8		6.3	9.5
138	19.1		16.3	24.5

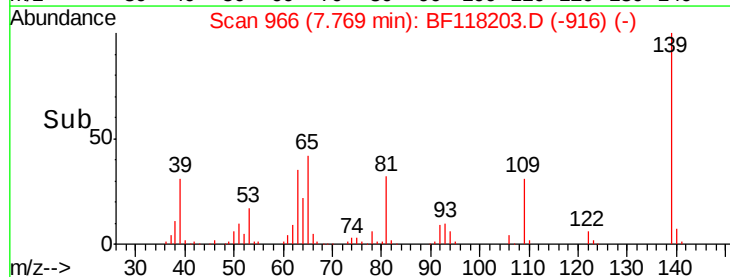
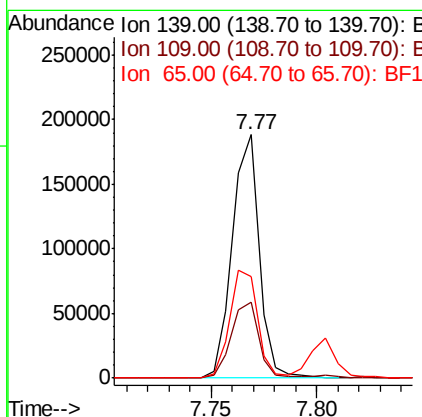
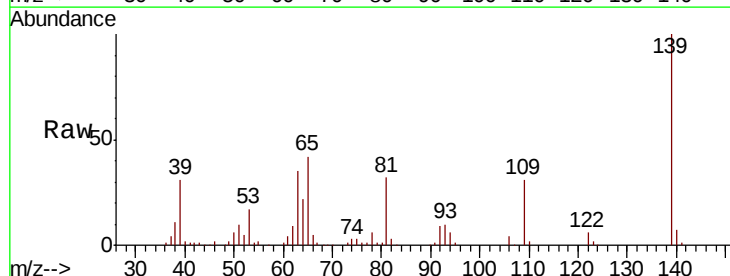
Manual Integrations
APPROVED

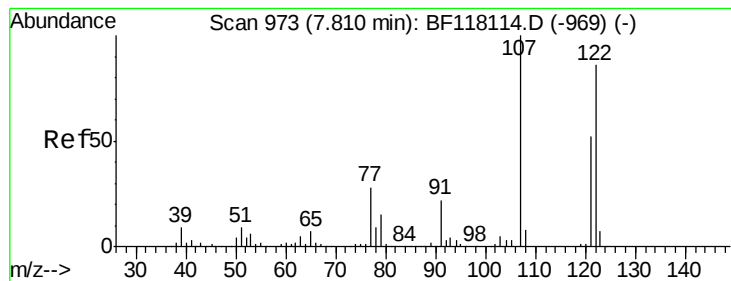
mohammad
12/17/2019 3:19:26 PM



#26
2-Nitrophenol
Concen: 50.096 ng
RT: 7.77 min Scan# 966
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
139	100	165614		
109	31.3		23.9	35.9
65	41.8		33.0	49.6





#27

2,4-Dimethylphenol

Concen: 60.038 ng

RT: 7.80 min Scan# 972

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

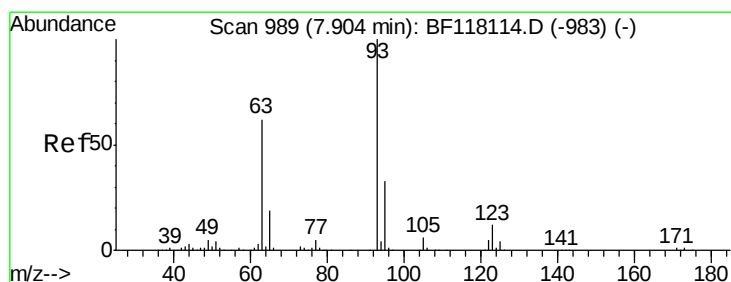
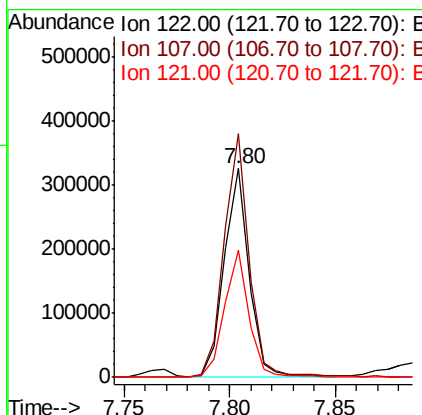
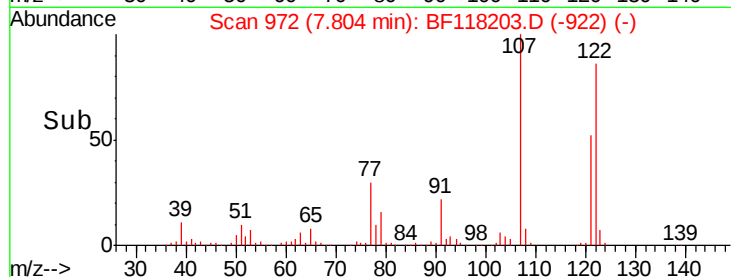
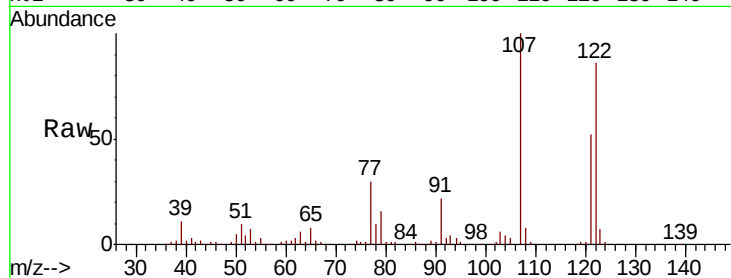
ClientSampleId :

HD-02-121219MSD

Tot Ion:	122	Resp:	264752
Ion Ratio	Lower	Upper	
122	100		
107	116.8	92.9	139.3
121	60.8	48.3	72.5

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



#28

bis(2-Chloroethoxy)methane

Concen: 48.441 ng

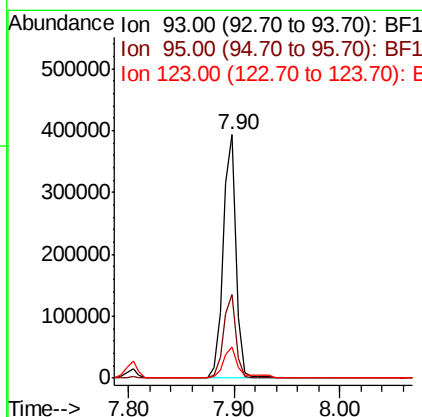
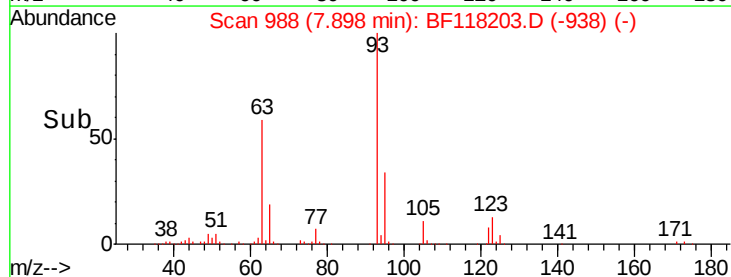
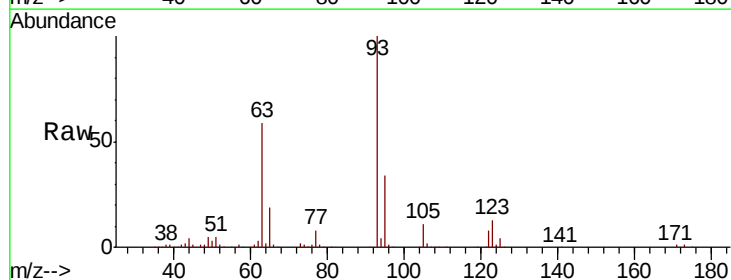
RT: 7.90 min Scan# 988

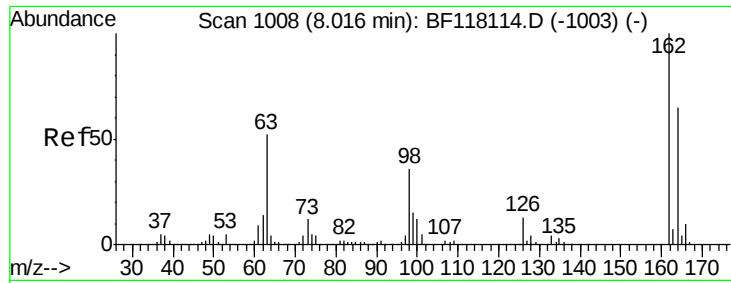
Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Tgt Ion:	93	Resp:	337804
Ion Ratio	Lower	Upper	
93	100		
95	34.1	26.7	40.1
123	12.9	10.0	15.0





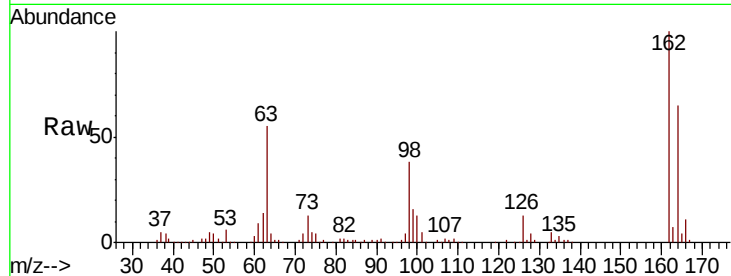
#29
2,4-Dichlorophenol
Concen: 50.804 ng
RT: 8.01 min Scan# 1007
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Resp	Lower	Upper
162	100	261173		
164	64.8	45.2	85.2	
98	37.7	15.9	55.9	

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

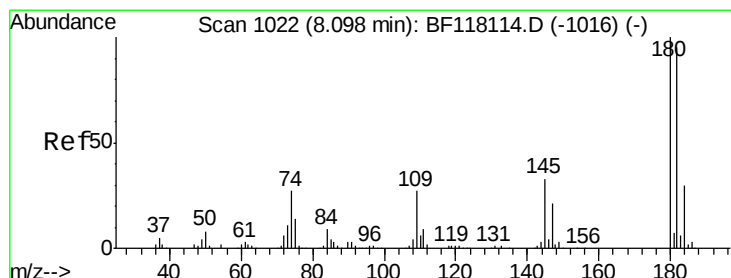
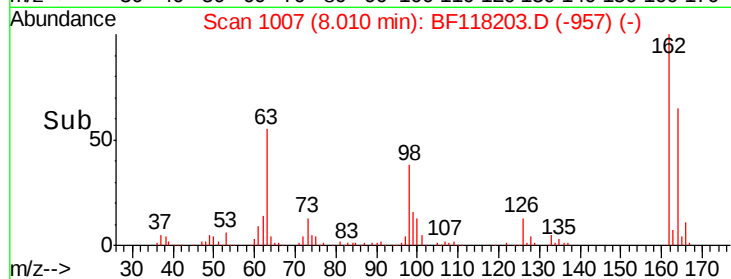
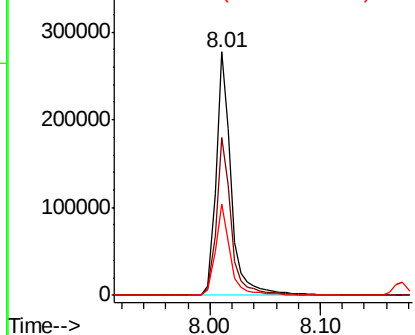


Abundance

Ion 162.00 (161.70 to 162.70): E

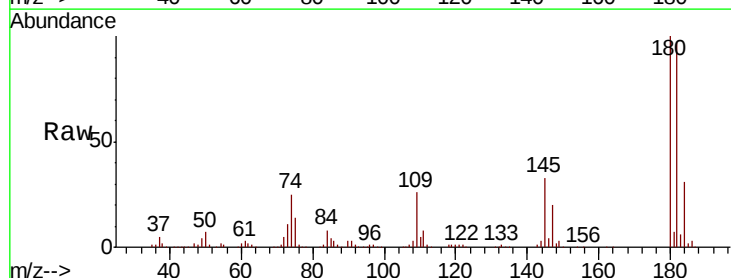
Ion 164.00 (163.70 to 164.70): E

Ion 98.00 (97.70 to 98.70): BF1



#30
1,2,4-Trichlorobenzene
Concen: 47.022 ng
RT: 8.09 min Scan# 1021
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	282498		
182	96.8	76.1	114.1	
145	33.0	26.1	39.1	

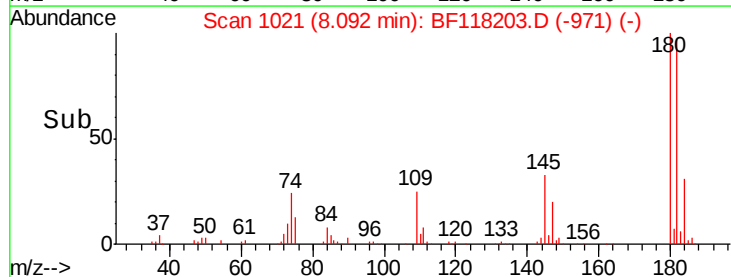
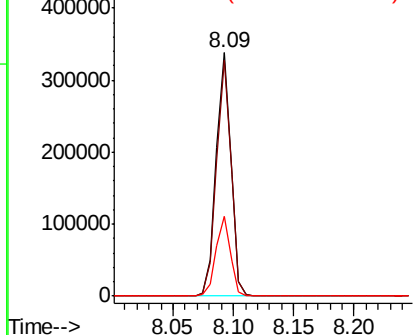


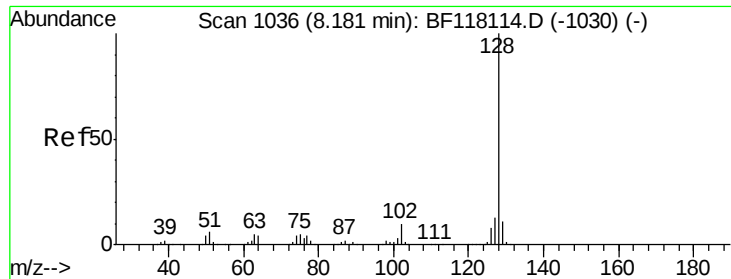
Abundance

Ion 180.00 (179.70 to 180.70): E

Ion 182.00 (181.70 to 182.70): E

Ion 145.00 (144.70 to 145.70): E





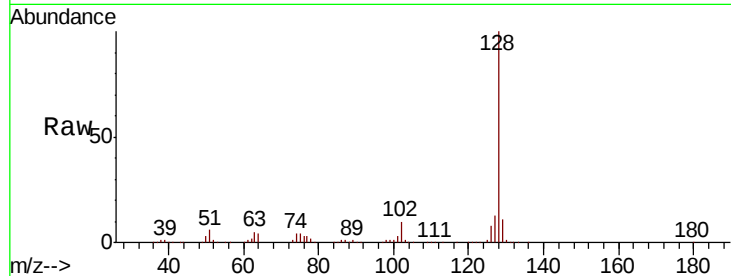
#31
Naphthalene
Concen: 50.139 ng
RT: 8.17 min Scan# 1035
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.1	13.7
127	12.9	10.6	16.0

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

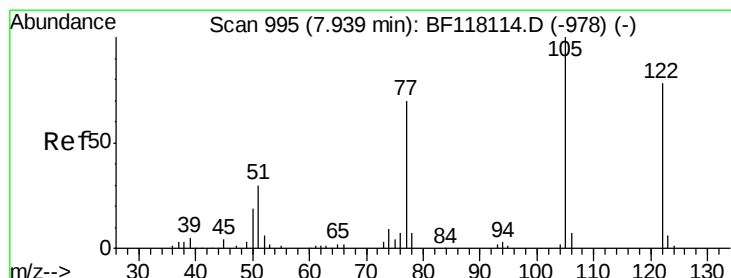
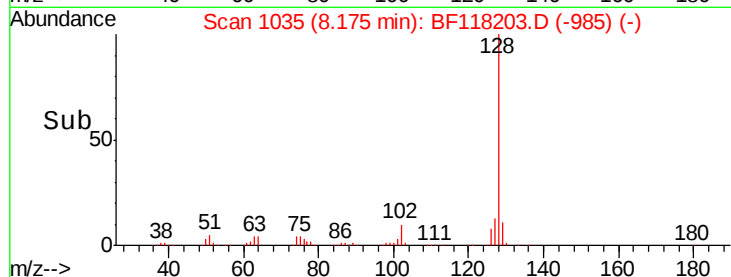
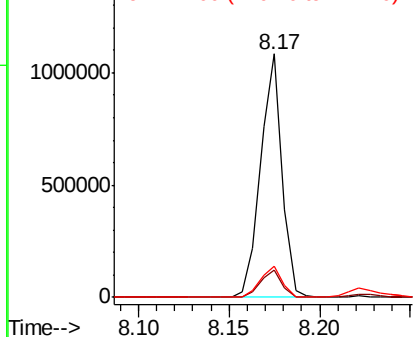


Abundance

Ion 128.00 (127.70 to 128.70): E

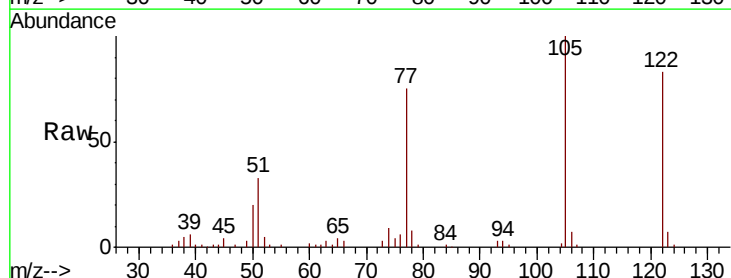
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#32
Benzoic acid
Concen: 39.890 ng
RT: 7.93 min Scan# 993
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
122	100		
105	119.8	104.7	144.7
77	90.4	69.1	109.1

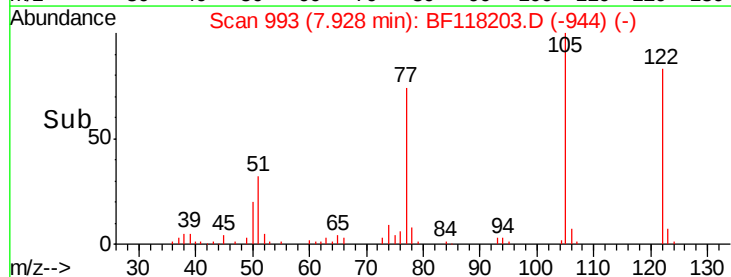
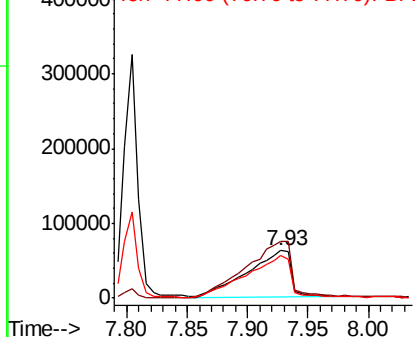


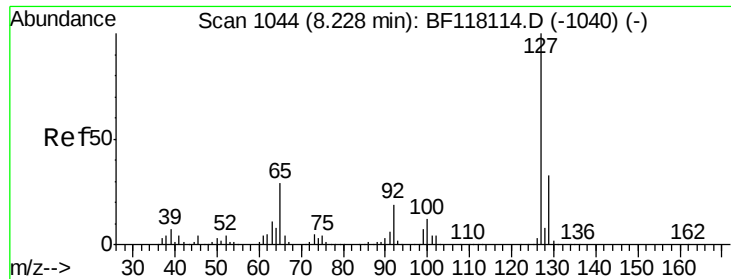
Abundance

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





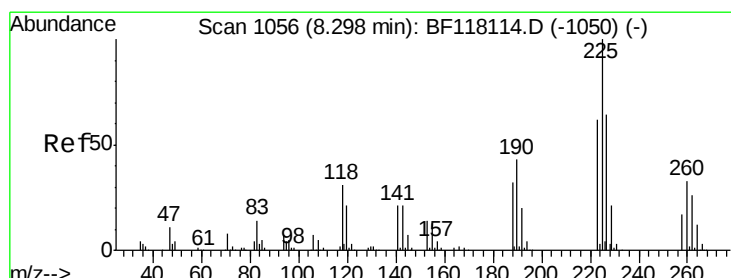
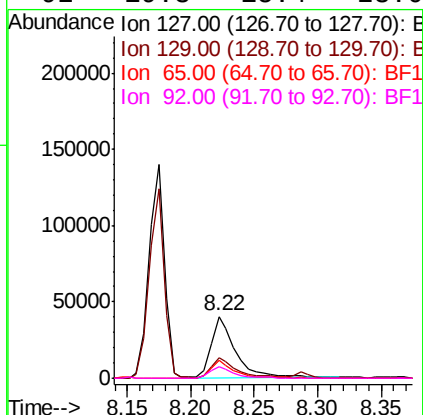
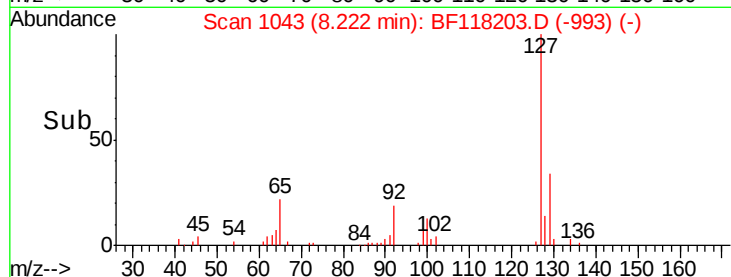
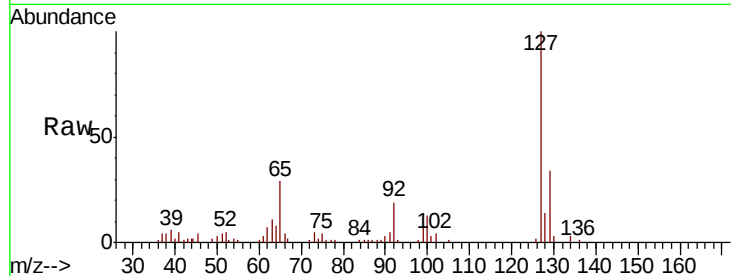
#33
4-Chloroaniline
Concen: 7.102 ng
RT: 8.22 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
127	100				
129	33.9	26.6	40.0		
65	28.8	23.2	34.8		
92	19.3	15.4	23.0		

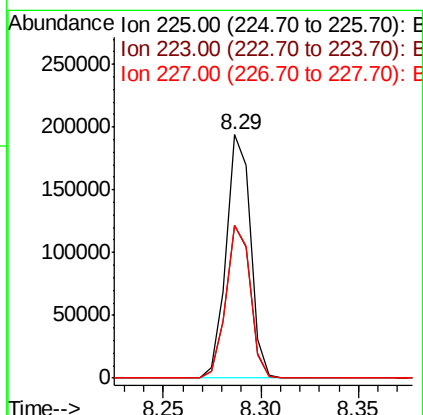
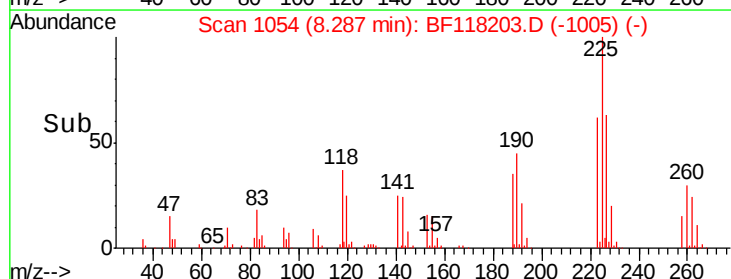
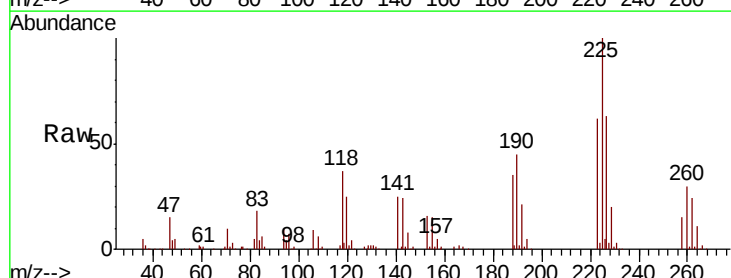
Manual Integrations
APPROVED

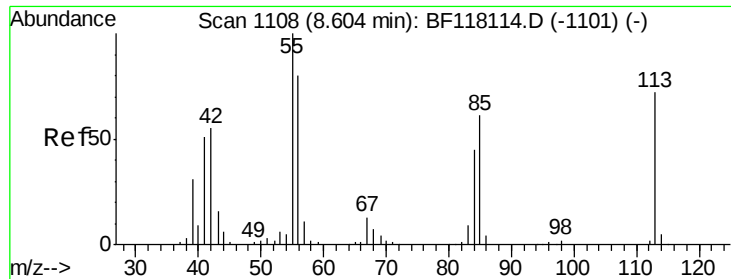
mohammad
12/17/2019 3:19:26 PM



#34
Hexachlorobutadiene
Concen: 46.521 ng
RT: 8.29 min Scan# 1054
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
225	100				
223	62.5	49.6	74.4		
227	62.8	51.0	76.6		





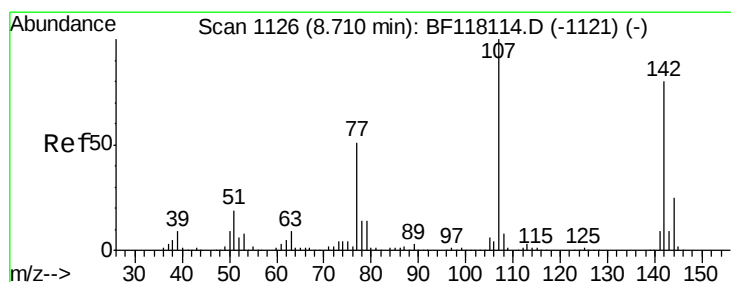
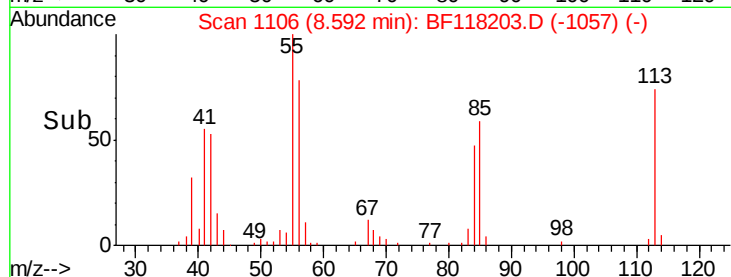
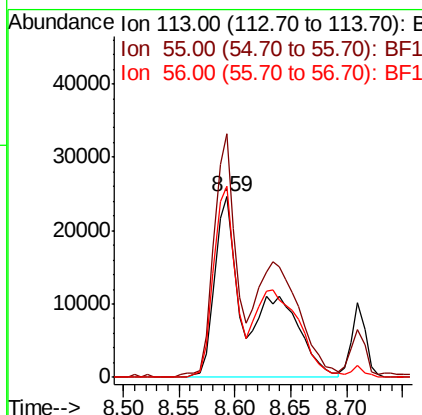
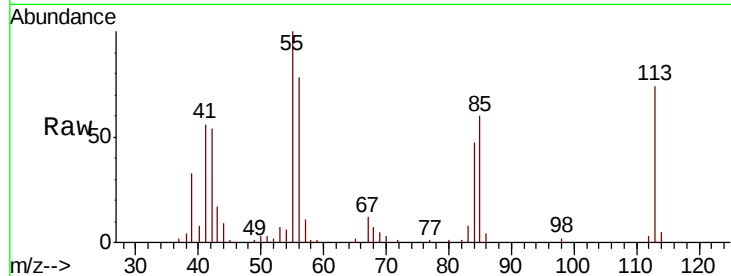
#35
 Caprolactam
 Concen: 39.194 ng/ml
 RT: 8.59 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

Tot Ion	Ion	Ratio	Lower	Upper
113	100			
55	134.8	118.9	158.9	
56	105.7	91.4	131.4	

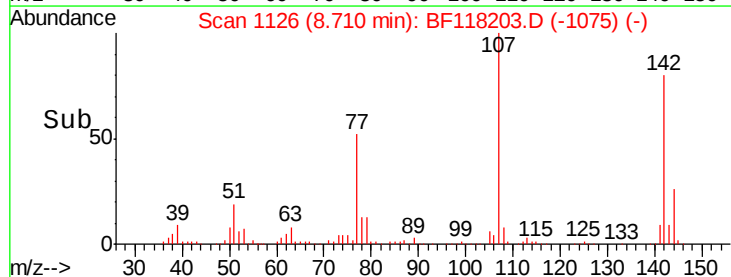
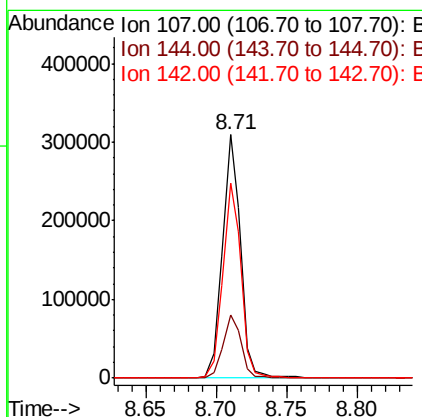
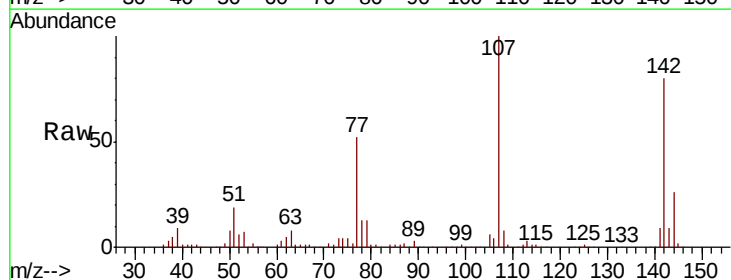
Manual Integrations
 APPROVED

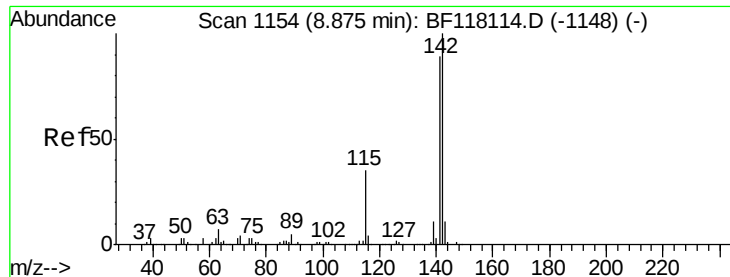
mohammad
 12/17/2019 3:19:26 PM



#36
 4-Chloro-3-methylphenol
 Concen: 50.914 ng/ml
 RT: 8.71 min Scan# 1126
 Delta R.T. 0.00 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tgt Ion	Ion	Ratio	Lower	Upper
107	100			
144	26.2	20.3	30.5	
142	80.1	63.7	95.5	





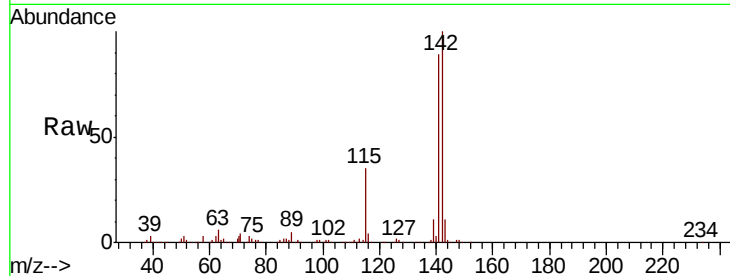
#37
2-Methylnaphthalene
Concen: 51.474 ng
RT: 8.87 min Scan# 1153
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.4	107.0
115	34.6	28.2	42.4

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

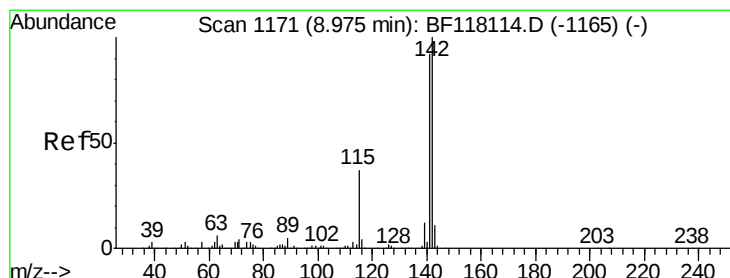
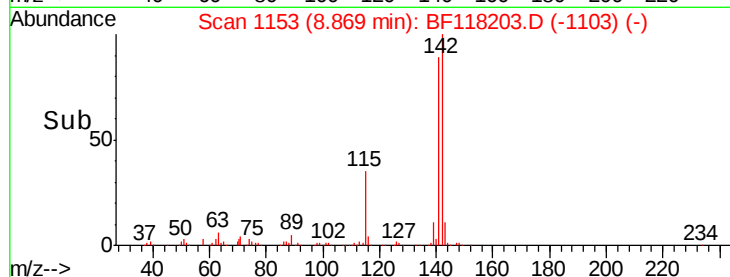
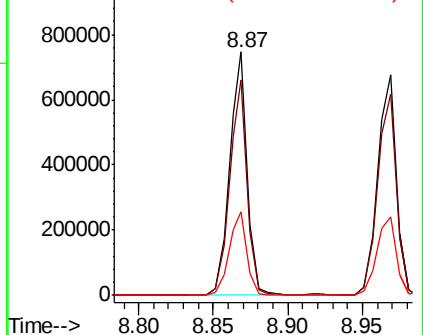


Abundance

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
1-Methylnaphthalene
Concen: 50.953 ng
RT: 8.97 min Scan# 1170
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

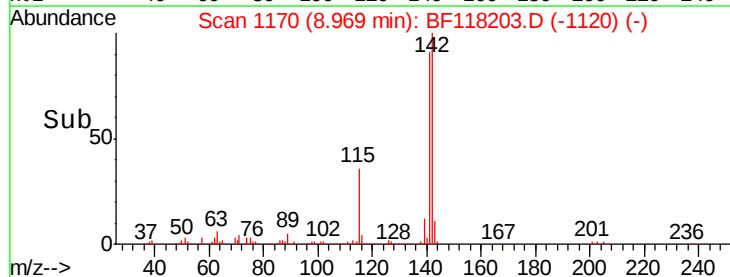
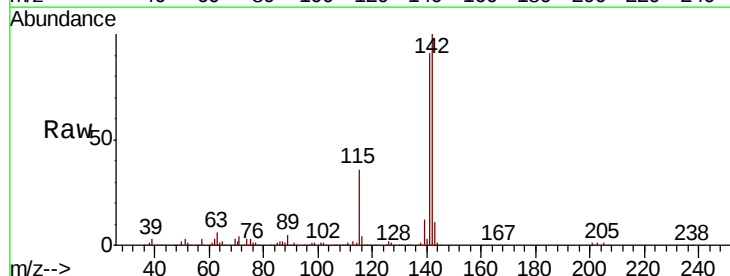
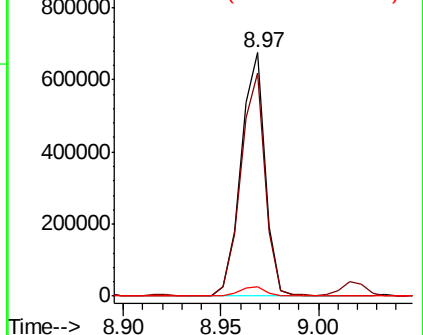
Tgt Ion	Ratio	Lower	Upper
142	100		
141	91.4	74.0	111.0
116	3.7	3.2	4.8

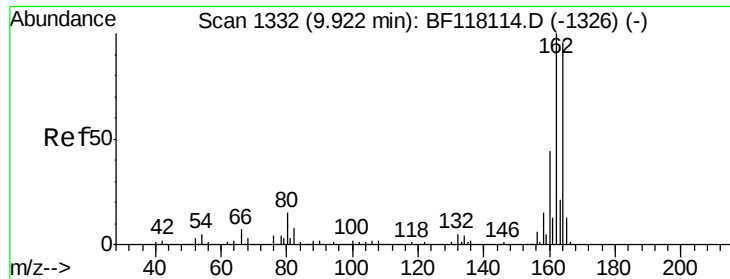
Abundance

Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E





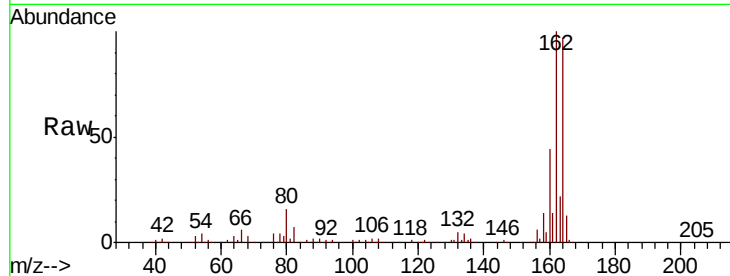
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.92 min Scan# 1331
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.6	83.4	125.0
160	45.3	36.6	54.8

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

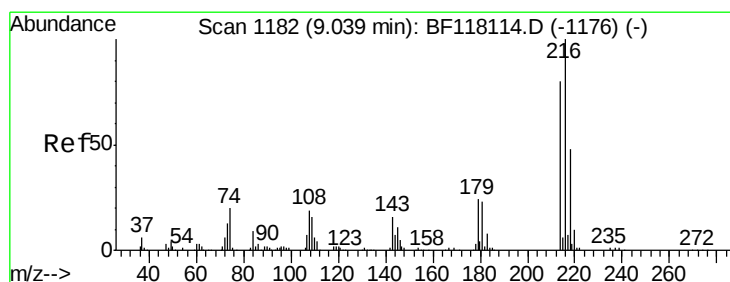
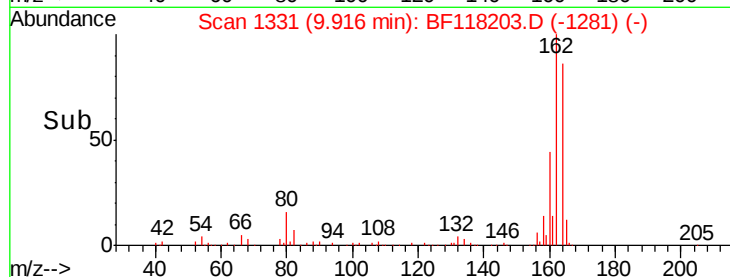
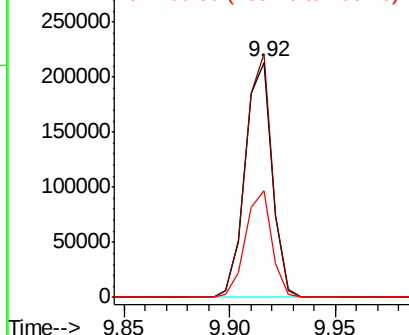


Abundance

Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#40
1,2,4,5-Tetrachlorobenzene
Concen: 49.031 ng
RT: 9.03 min Scan# 1181
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
216	100		
214	77.8	63.4	95.2
179	22.9	18.6	27.8
108	20.9	15.4	23.0

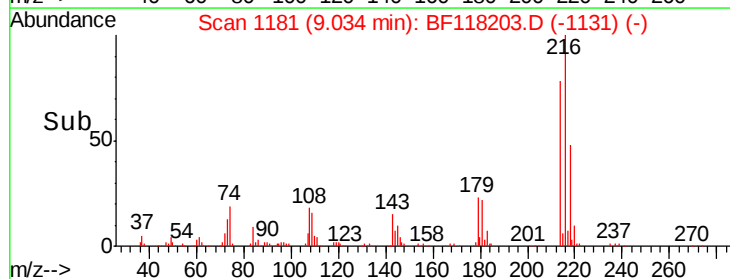
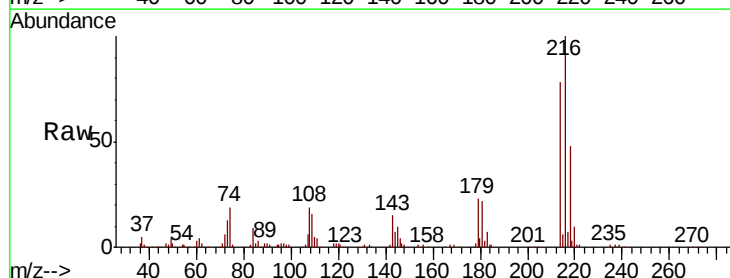
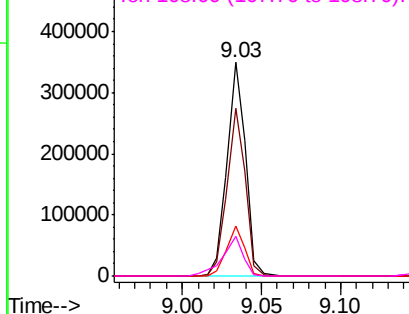
Abundance

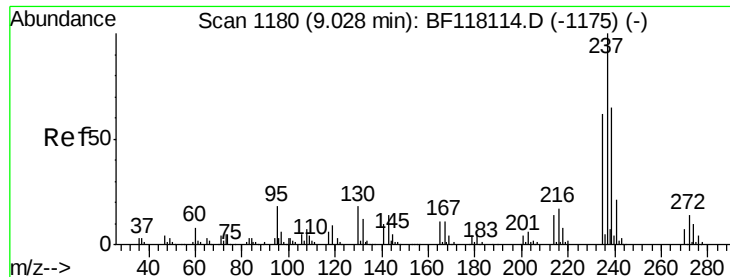
Ion 216.00 (215.70 to 216.70): E

Ion 214.00 (213.70 to 214.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 108.00 (107.70 to 108.70): E





#41

Hexachlorocyclopentadiene

Concen: 104.454 ng

RT: 9.02 min Scan# 1179

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

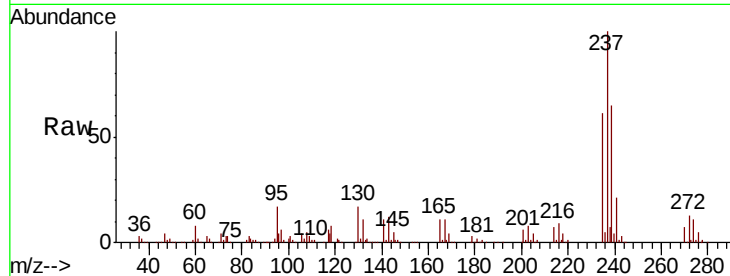
ClientSampleId :

HD-02-121219MSD

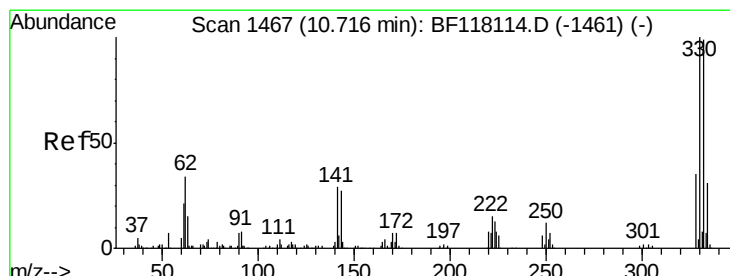
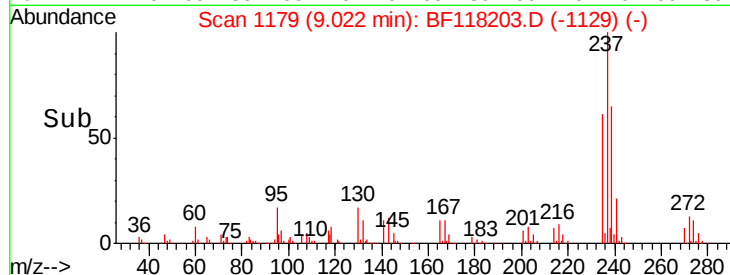
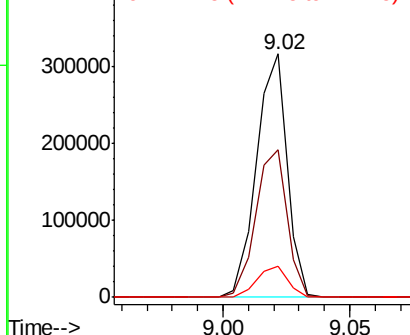
Tot Ion:	237	Resp:	268347
Ion Ratio	Lower	Upper	
237	100		
235	60.8	41.5	81.5
272	12.9	0.0	33.7

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



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



#42

2,4,6-Tribromophenol

Concen: 162.785 ng

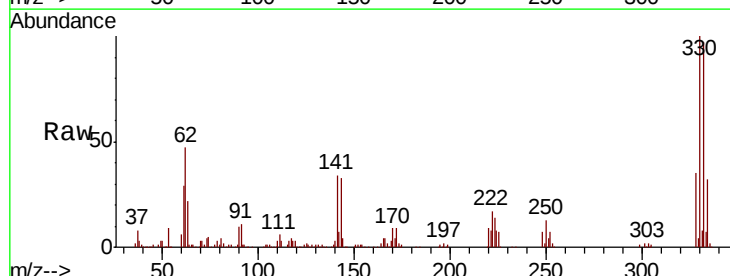
RT: 10.71 min Scan# 1466

Delta R.T. -0.01 min

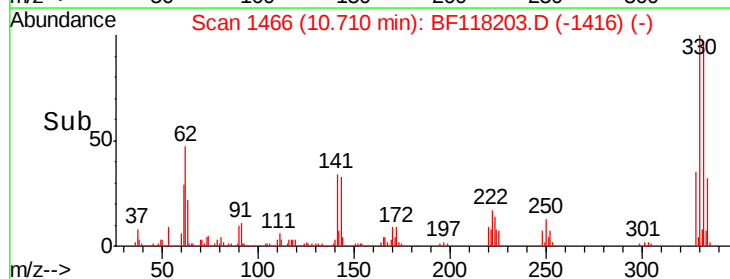
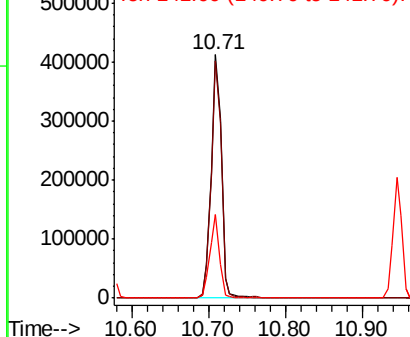
Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Tgt Ion:	330	Resp:	374303
Ion Ratio	Lower	Upper	
330	100		
332	97.8	78.1	117.1
141	32.5	26.9	40.3



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





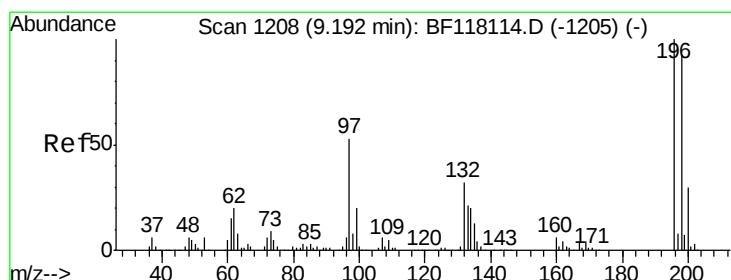
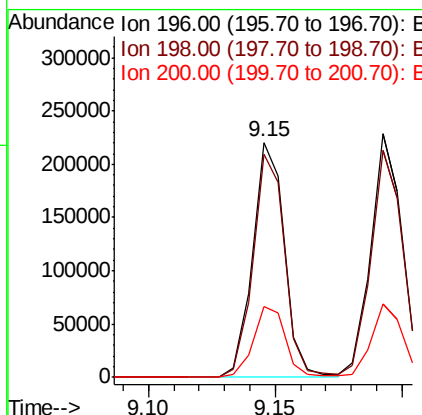
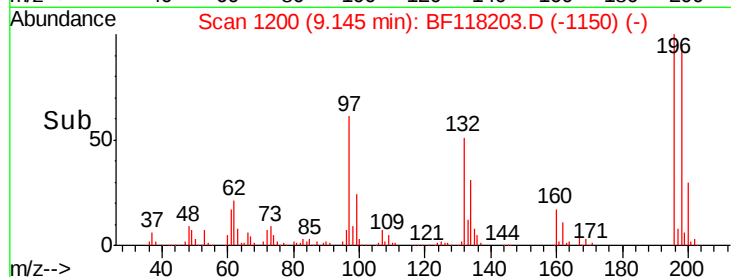
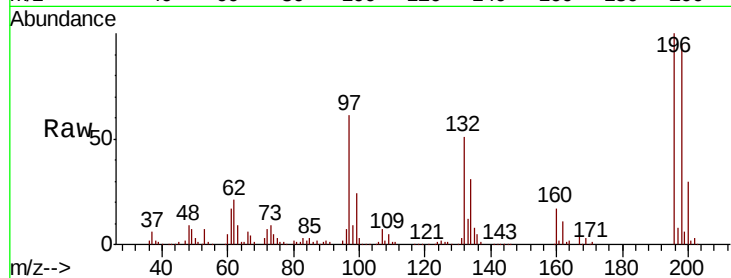
#43
 2,4,6-Trichlorophenol
 Concen: 50.462 ng
 RT: 9.15 min Scan# 1200
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

Tot Ion:	196	Resp:	193191
Ion Ratio	Lower	Upper	
196	100		
198	95.3	75.0	112.4
200	30.3	24.5	36.7

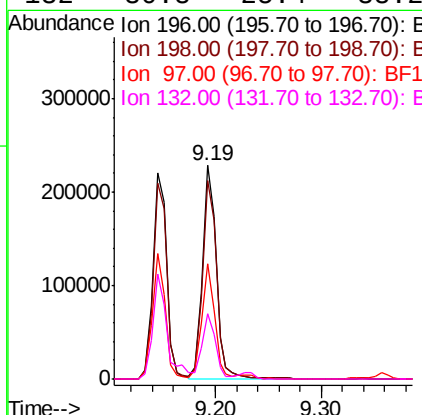
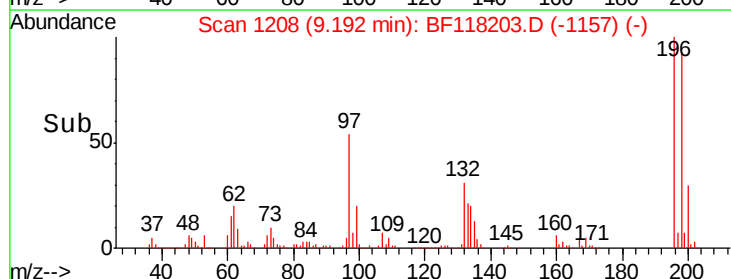
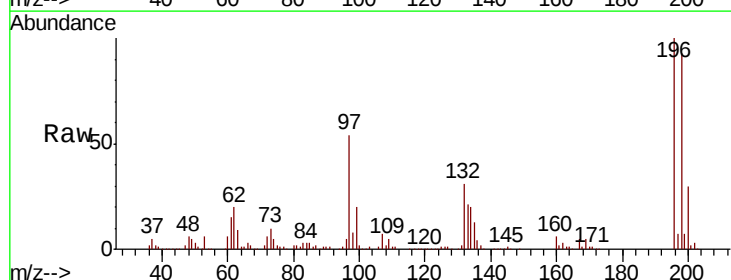
Manual Integrations
 APPROVED

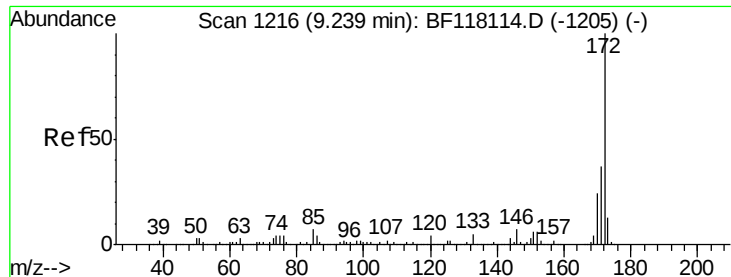
mohammad
 12/17/2019 3:19:26 PM



#44
 2,4,5-Trichlorophenol
 Concen: 51.946 ng
 RT: 9.19 min Scan# 1208
 Delta R.T. 0.00 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tgt Ion:	196	Resp:	206039
Ion Ratio	Lower	Upper	
196	100		
198	93.2	74.2	111.4
97	53.7	42.5	63.7
132	30.8	25.4	38.2





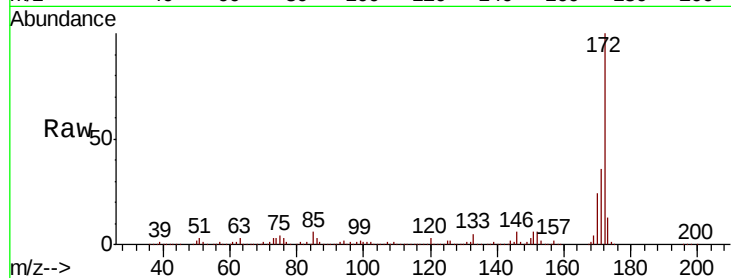
#45
2-Fluorobiphenyl
Concen: 102.617 ng
RT: 9.23 min Scan# 1215
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	23.8	19.4	29.2

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

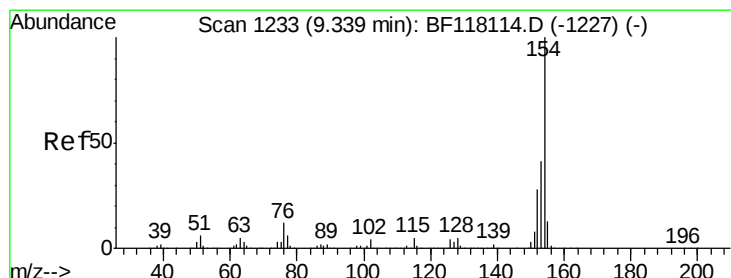
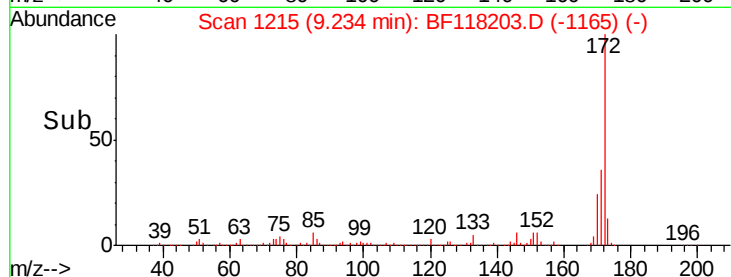
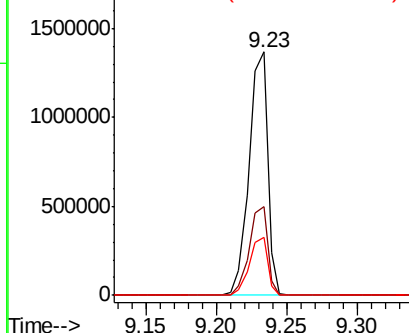


Abundance

Ion 172.00 (171.70 to 172.70): E

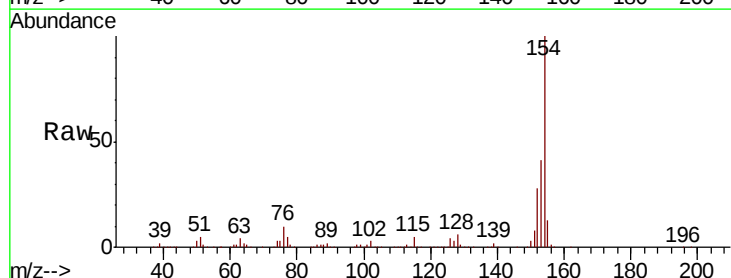
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#46
1,1'-Biphenyl
Concen: 50.476 ng
RT: 9.33 min Scan# 1232
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.2	20.7	60.7
76	10.5	0.0	31.9

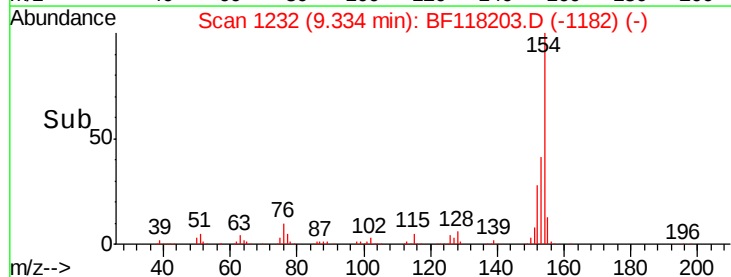
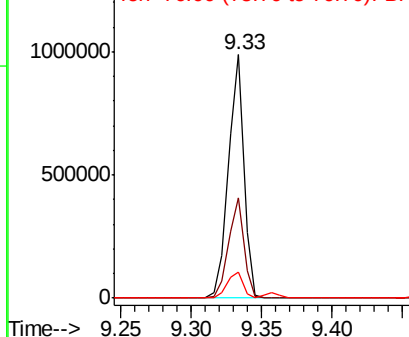


Abundance

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





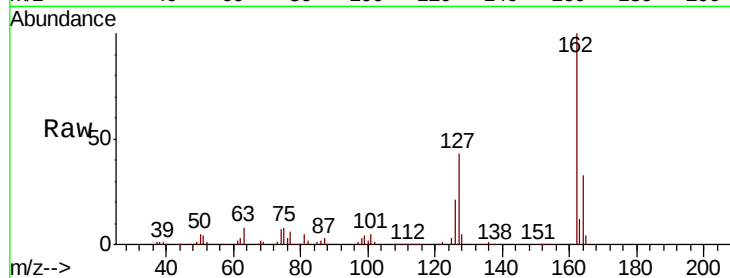
#47
 2-Chloronaphthalene
 Concen: 48.706 ng
 RT: 9.36 min Scan# 1236
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

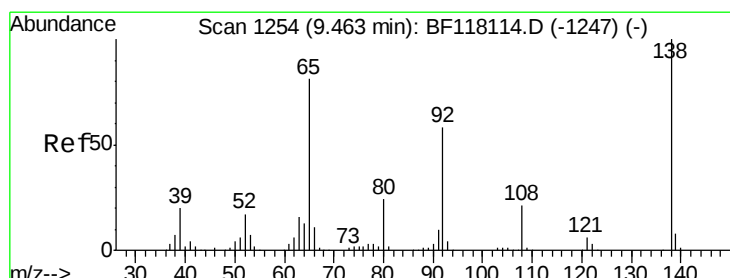
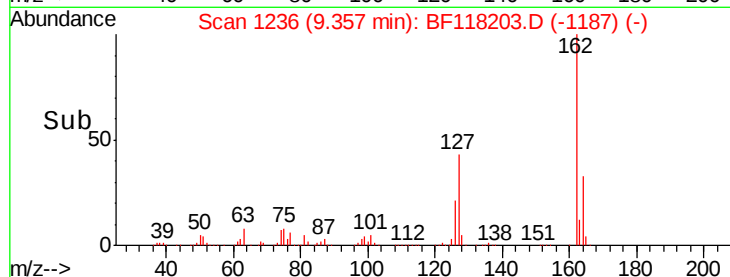
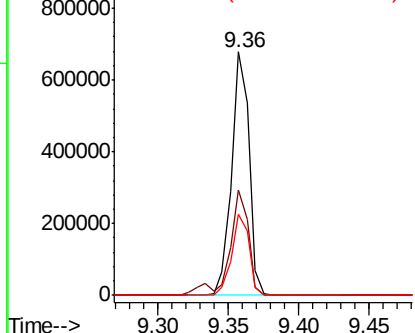
Tot Ion:	162	Resp:	584879
Ion Ratio	Lower	Upper	
162	100		
127	43.2	32.0	48.0
164	33.1	26.1	39.1

Manual Integrations
 APPROVED

mohammad
 12/17/2019 3:19:26 PM

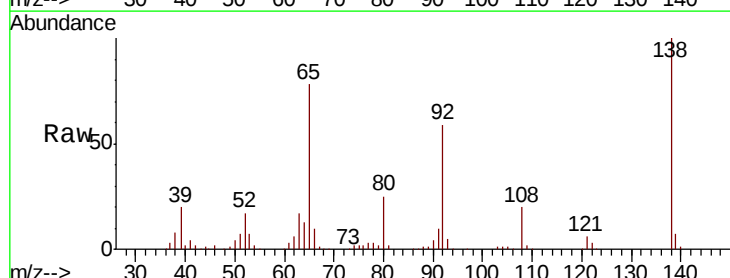


Abundance Ion 162.00 (161.70 to 162.70): E
 Ion 127.00 (126.70 to 127.70): E
 Ion 164.00 (163.70 to 164.70): E

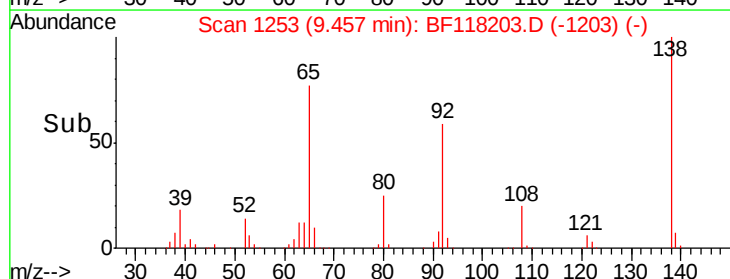
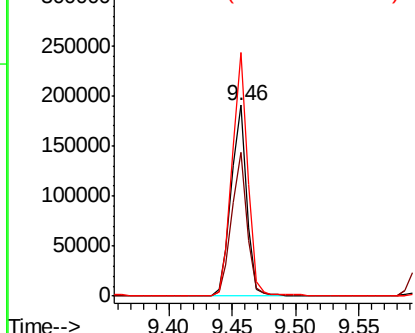


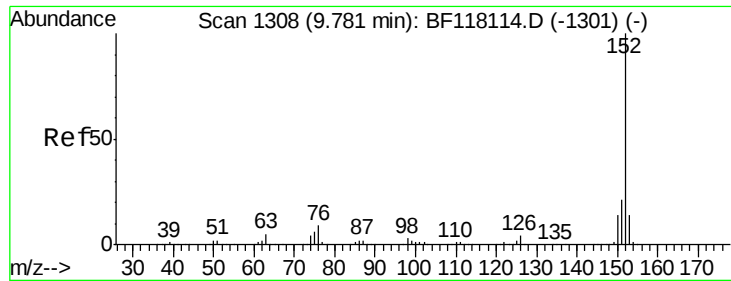
#48
 2-Nitroaniline
 Concen: 47.669 ng
 RT: 9.46 min Scan# 1253
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tgt Ion:	65	Resp:	163240
Ion Ratio	Lower	Upper	
65	100		
92	75.5	57.8	86.6
138	127.8	98.8	148.2



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





#49

Acenaphthylene

Concen: 53.150 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

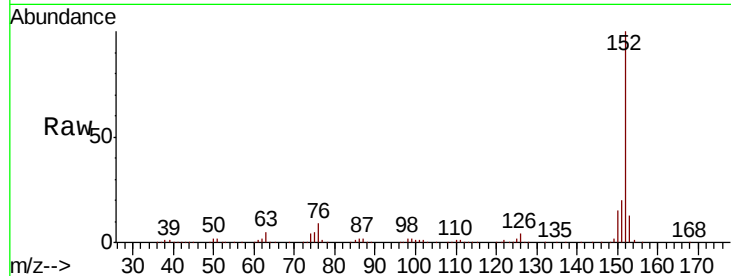
ClientSampleId :

HD-02-121219MSD

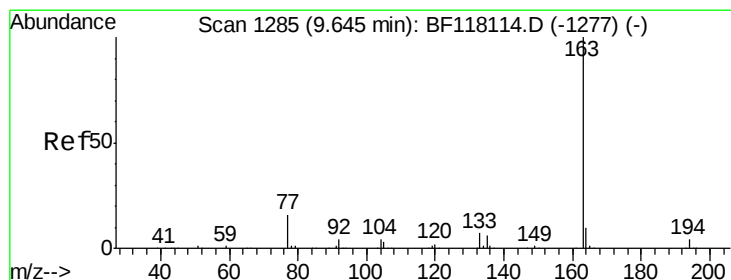
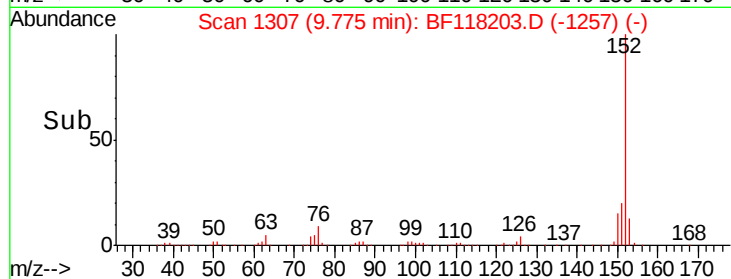
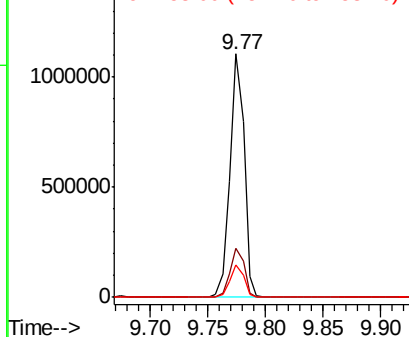
Tot Ion:	152	Resp:	941365
Ion Ratio	Lower	Upper	
152	100		
151	20.4	16.4	24.6
153	13.3	10.8	16.2

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



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



#50

Dimethylphthalate

Concen: 54.867 ng

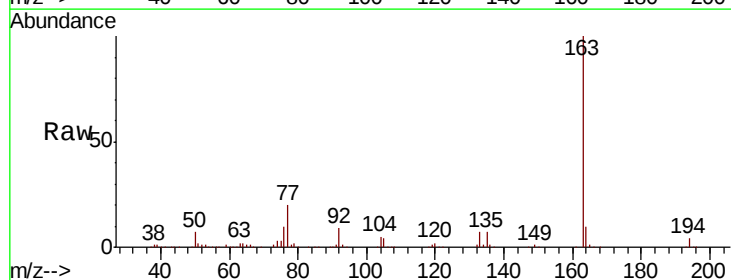
RT: 9.63 min Scan# 1283

Delta R.T. -0.01 min

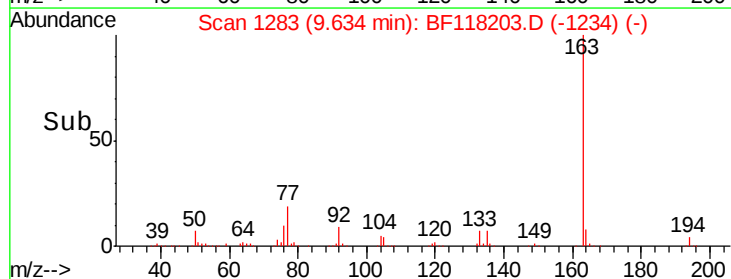
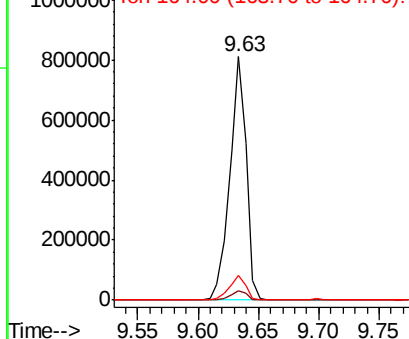
Lab File: BF118203.D

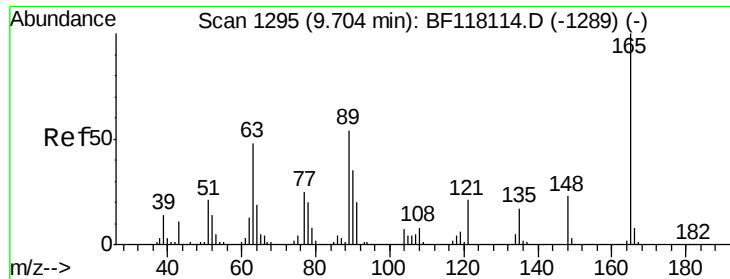
Acq: 16 Dec 2019 18:22

Tgt Ion:	163	Resp:	767080
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.1	4.7
164	10.3	7.7	11.5



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





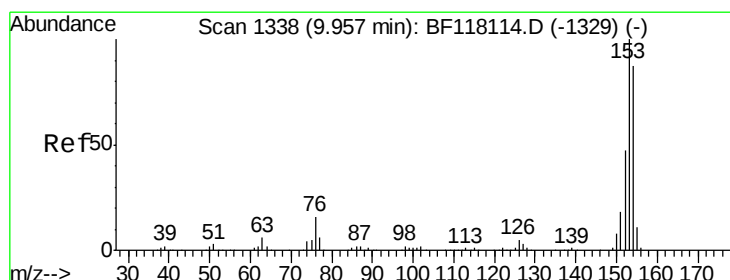
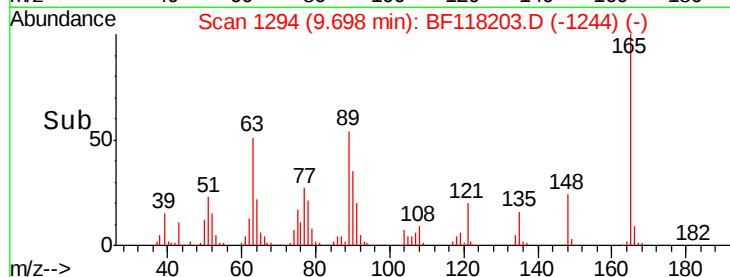
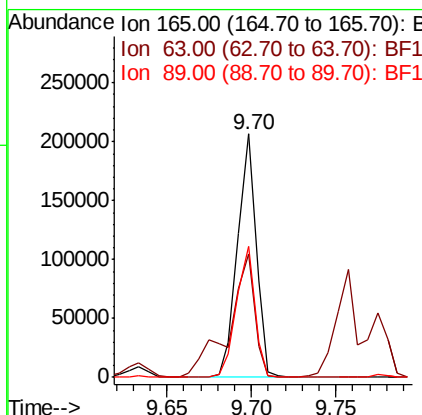
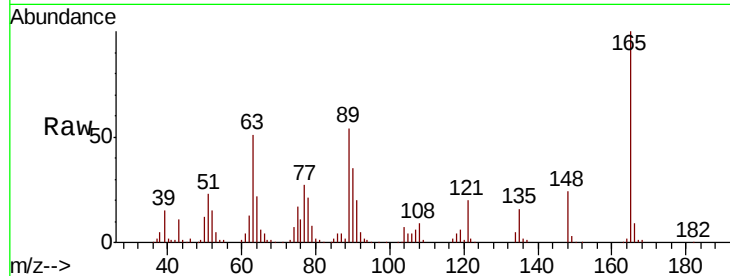
#51
2,6-Dinitrotoluene
Concen: 52.344 ng
RT: 9.70 min Scan# 1294
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Resp	Lower	Upper
165	100	159129		
63	50.6	41.4	62.0	
89	54.0	42.9	64.3	

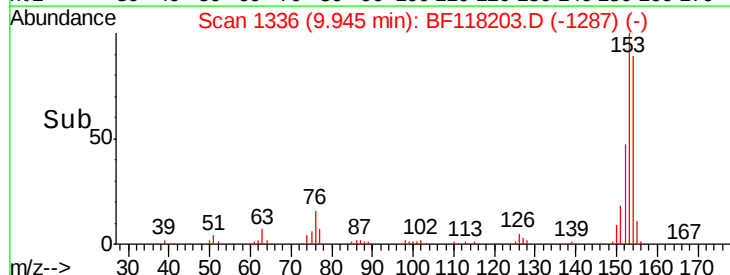
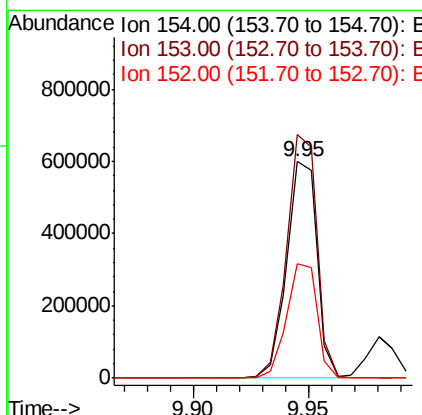
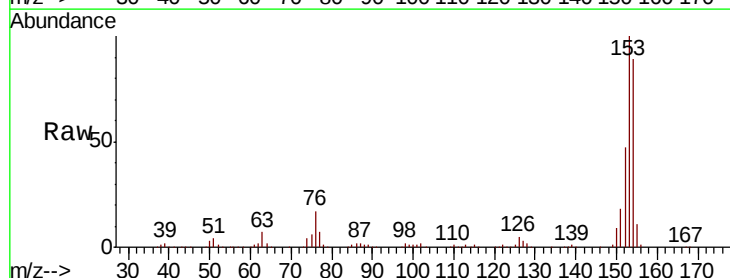
Manual Integrations
APPROVED

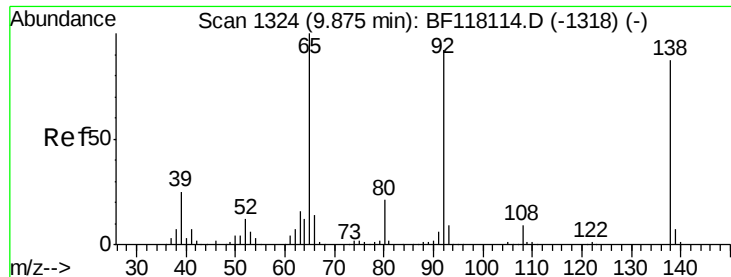
mohammad
12/17/2019 3:19:26 PM



#52
Acenaphthene
Concen: 50.230 ng
RT: 9.95 min Scan# 1336
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
154	100	543009		
153	112.4	91.8	137.6	
152	52.9	43.3	64.9	





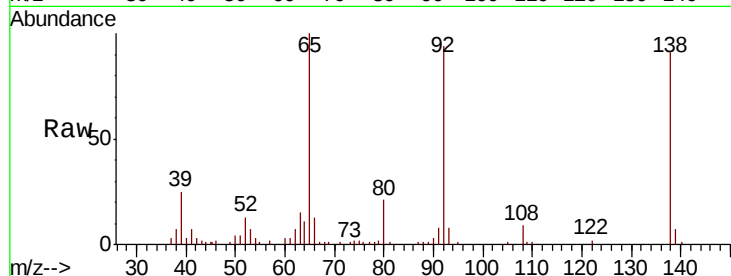
#53
3-Nitroaniline
Concen: 14.655 ng
RT: 9.87 min Scan# 1323
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
138	100		
108	10.1	8.2	12.4
92	103.5	84.9	127.3

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

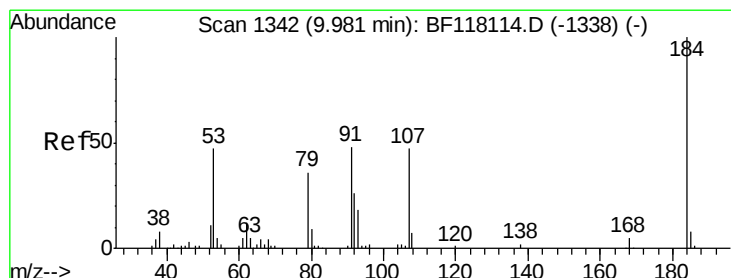
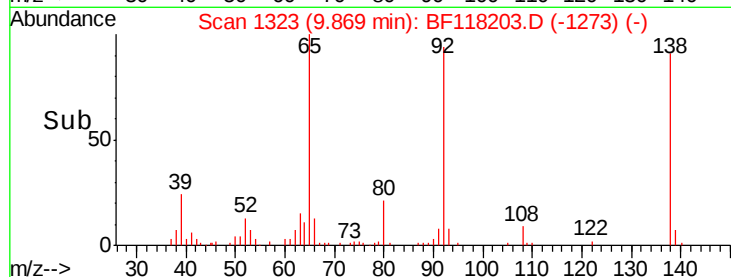
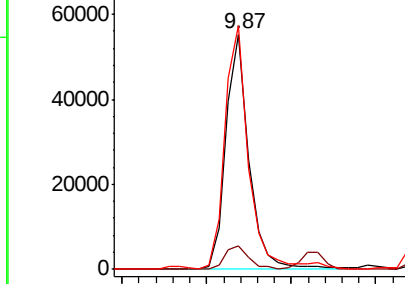


Abundance

Ion 138.00 (137.70 to 138.70): E

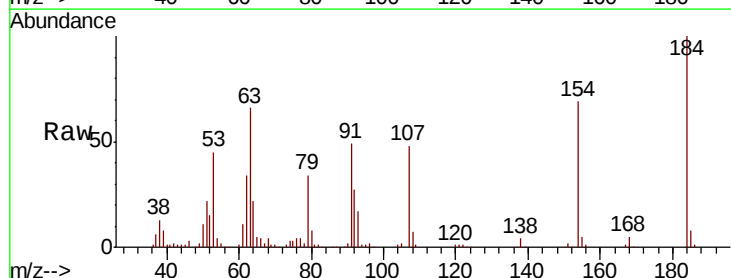
Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#54
2,4-Dinitrophenol
Concen: 104.372 ng
RT: 9.98 min Scan# 1342
Delta R.T. 0.00 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
184	100		
63	66.0	53.9	80.9
154	68.7	56.3	84.5

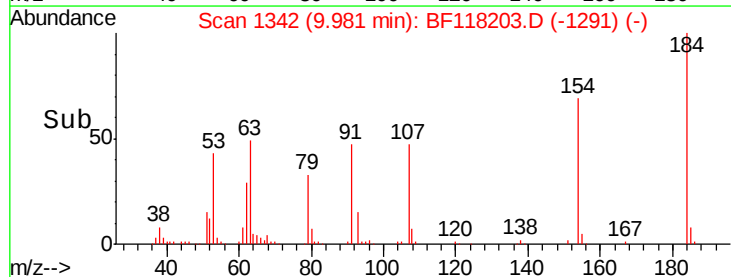
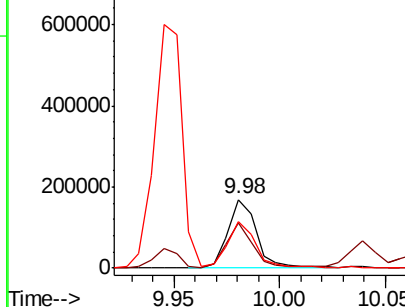


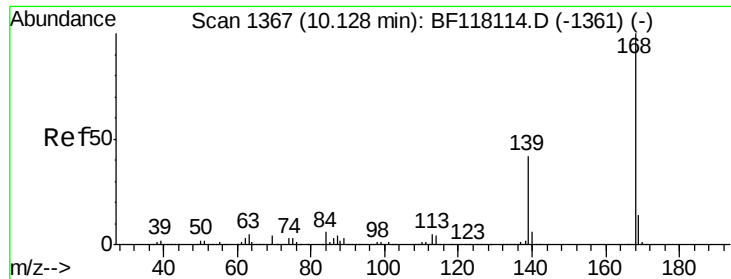
Abundance

Ion 184.00 (183.70 to 184.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 154.00 (153.70 to 154.70): E





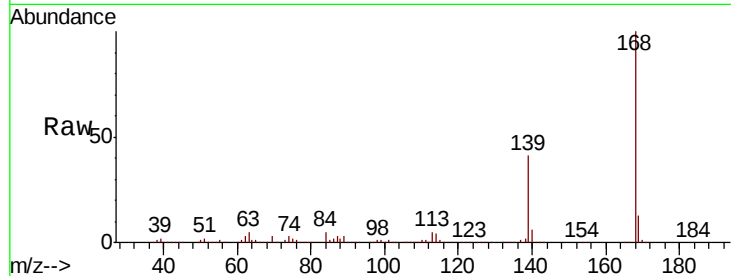
#55
Dibenzenofuran
Concen: 52.581 ng
RT: 10.12 min Scan# 1366
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
168	100		
139	41.3	33.4	50.0
169	13.4	11.0	16.6

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

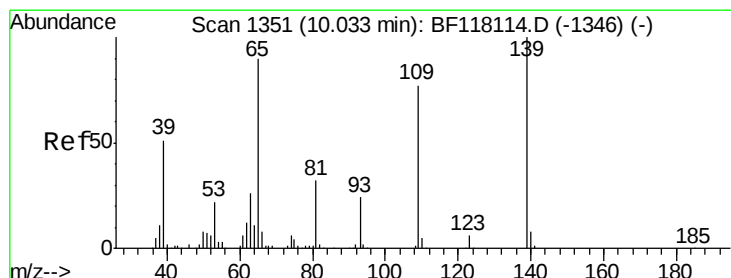
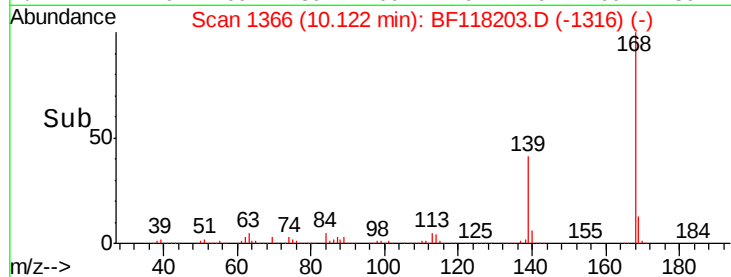
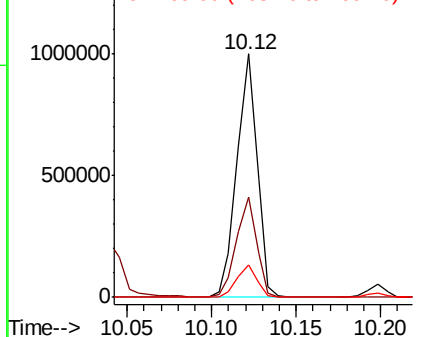


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#56
4-Nitrophenol
Concen: 92.563 ng
RT: 10.04 min Scan# 1352
Delta R.T. 0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

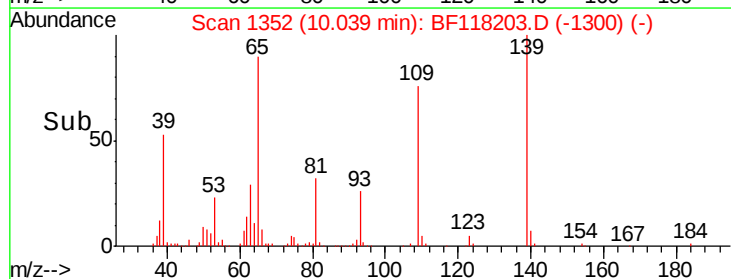
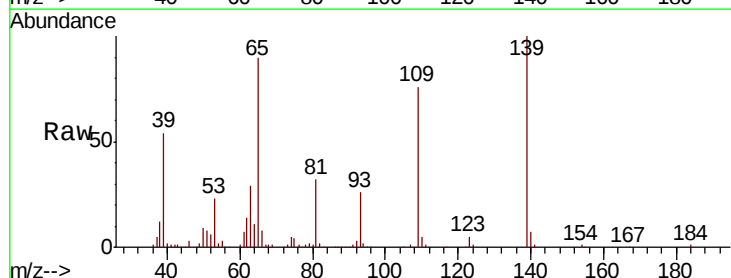
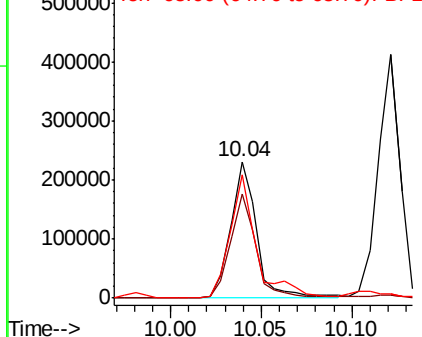
Tgt Ion	Ratio	Lower	Upper
139	100		
109	76.4	57.3	97.3
65	90.3	70.2	110.2

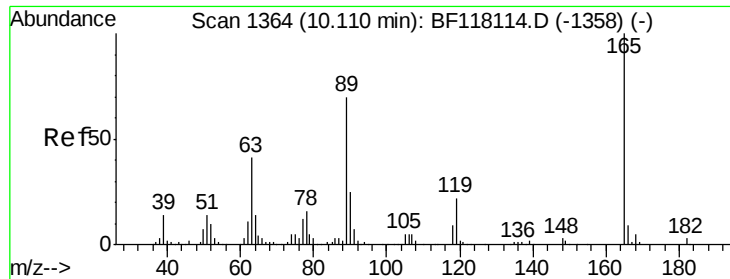
Abundance

Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





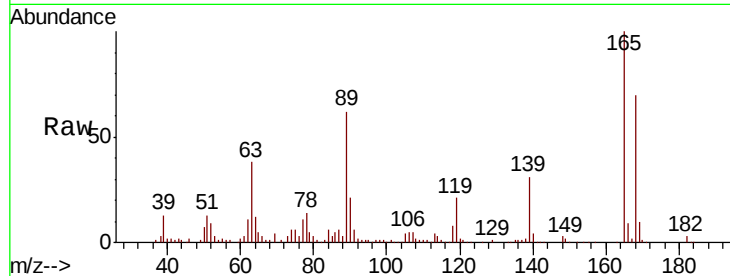
#57
2,4-Dinitrotoluene
Concen: 53.551 ng
RT: 10.11 min Scan# 1364
Delta R.T. 0.00 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Resp	Lower	Upper
165	100	217289		
63	38.2		32.6	49.0
89	61.6		56.1	84.1
182	2.9		2.1	3.1

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



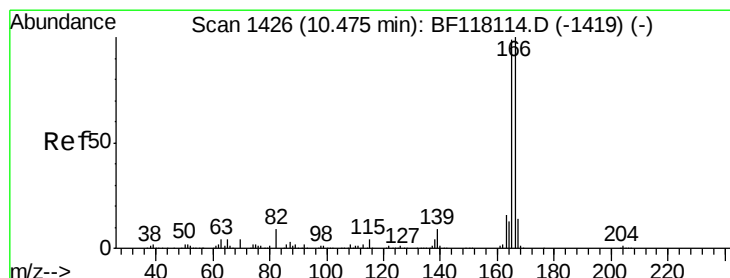
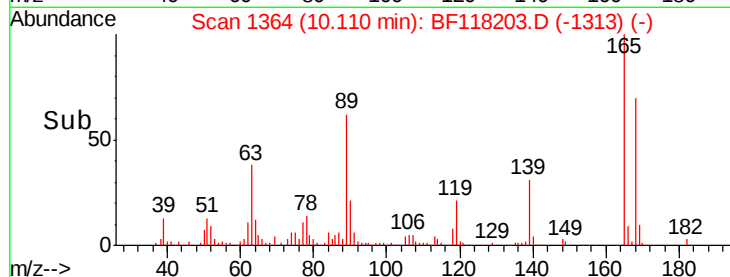
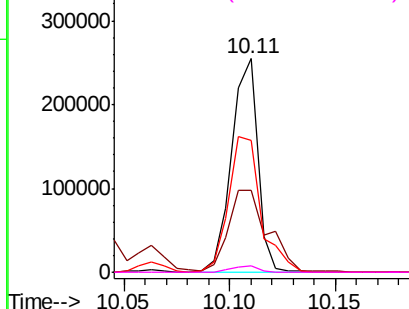
Abundance

Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

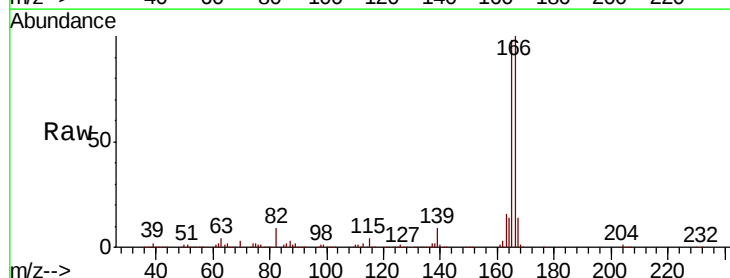
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#58
Fluorene
Concen: 52.901 ng
RT: 10.47 min Scan# 1425
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	665931		
165	98.5		79.0	118.4
167	13.5		10.9	16.3

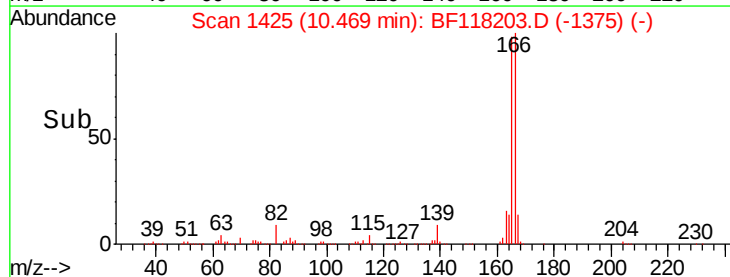
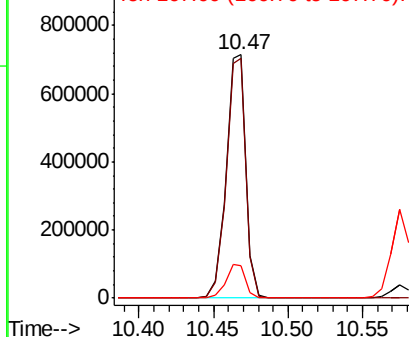


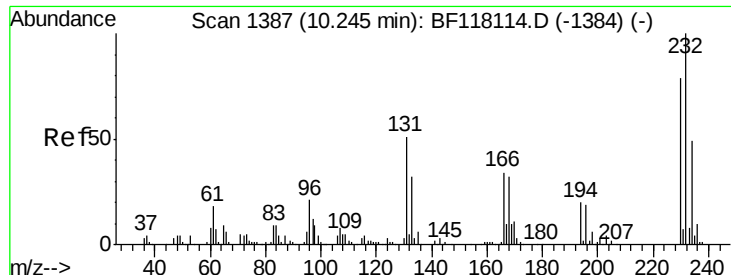
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





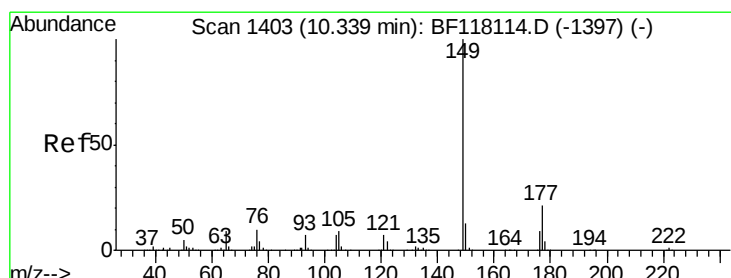
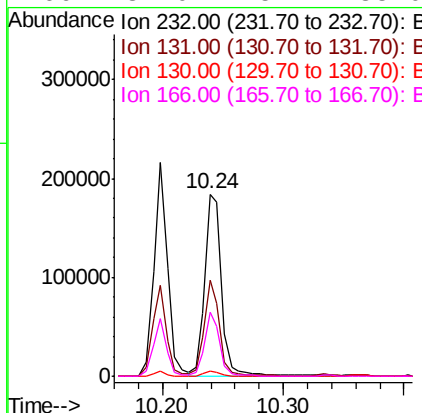
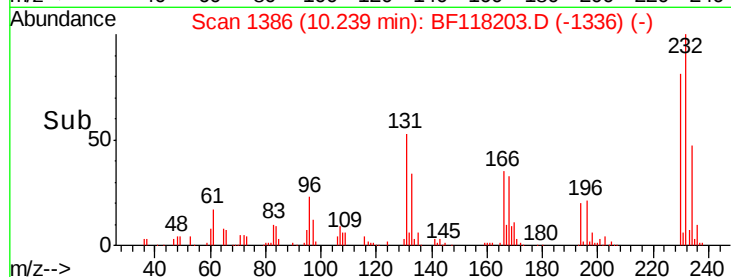
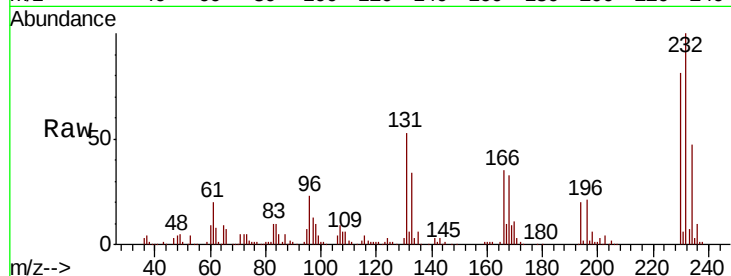
#59
2,3,4,6-Tetrachlorophenol
Concen: 54.109 ng
RT: 10.24 min Scan# 1386
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
232	100		
131	47.8	38.8	58.2
130	2.5	1.9	2.9
166	32.0	25.4	38.0

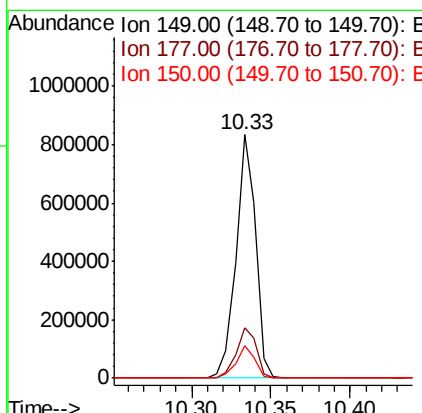
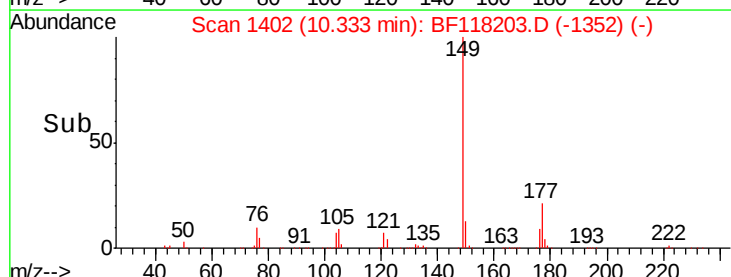
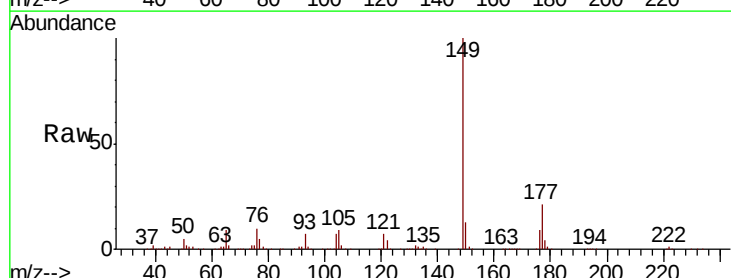
Manual Integrations
APPROVED

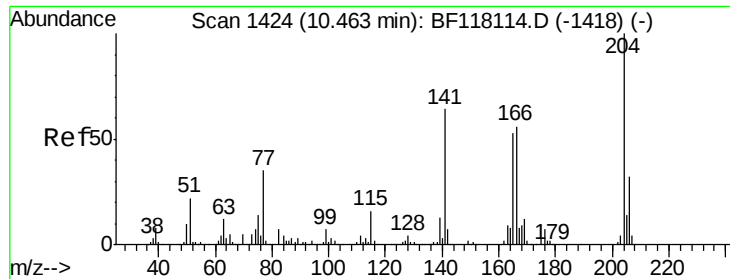
mohammad
12/17/2019 3:19:26 PM



#60
Diethylphthalate
Concen: 51.768 ng
RT: 10.33 min Scan# 1402
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
149	100		
177	20.9	17.0	25.4
150	13.1	10.1	15.1





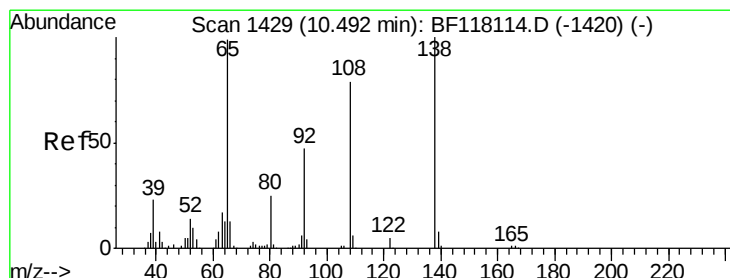
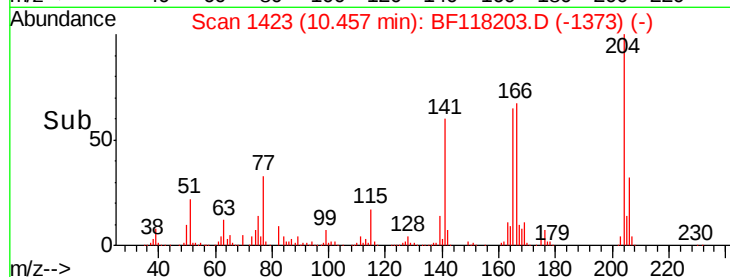
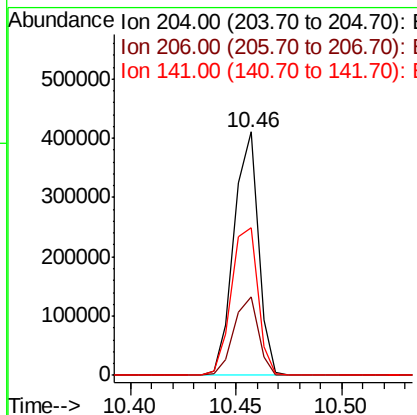
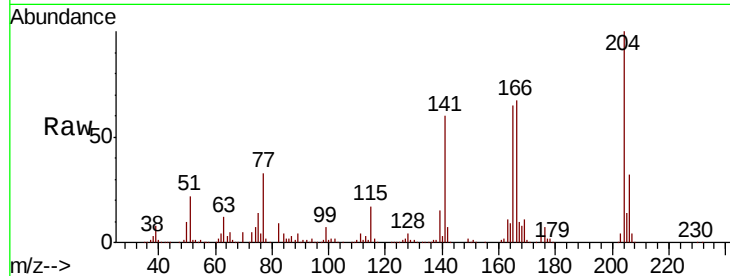
#61
 4-Chlorophenyl-phenylether
 Concen: 51.686 ng
 RT: 10.46 min Scan# 1423
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

Tot Ion:	204	Resp:	327370
Ion Ratio	Lower	Upper	
204	100		
206	32.5	26.0	39.0
141	60.4	51.0	76.6

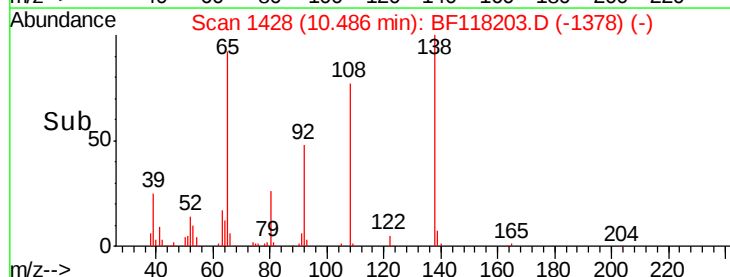
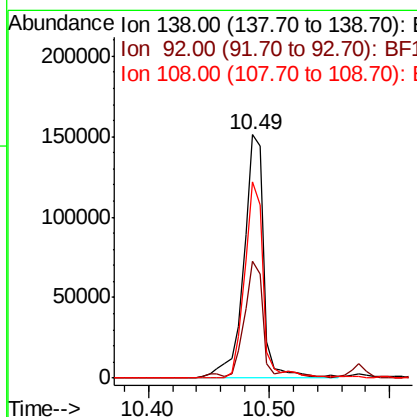
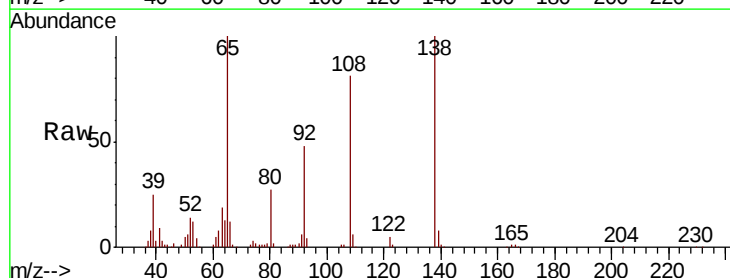
Manual Integrations
 APPROVED

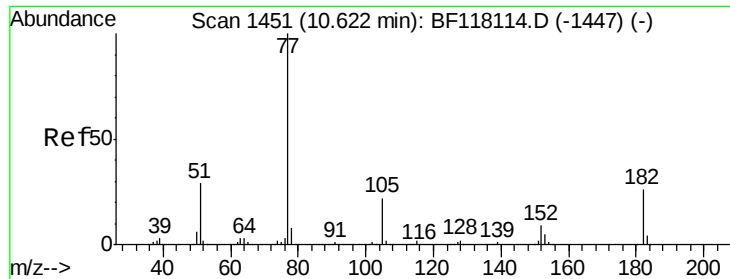
mohammad
 12/17/2019 3:19:26 PM



#62
 4-Nitroaniline
 Concen: 47.027 ng
 RT: 10.49 min Scan# 1428
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tgt Ion:	138	Resp:	175474
Ion Ratio	Lower	Upper	
138	100		
92	48.0	27.1	67.1
108	80.7	59.0	99.0





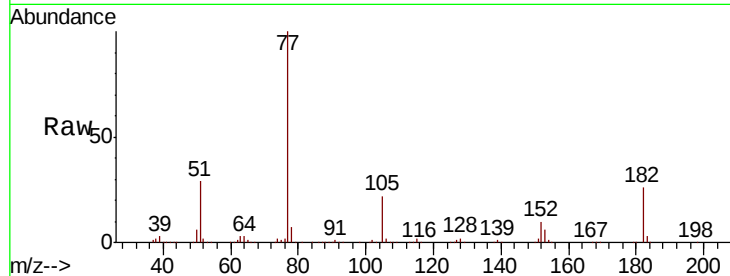
#63
Azobenzene
Concen: 52.979 ng
RT: 10.62 min Scan# 1450
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
77	100		
182	26.4	5.7	45.7
105	22.1	2.2	42.2
51	28.9	9.6	49.6

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



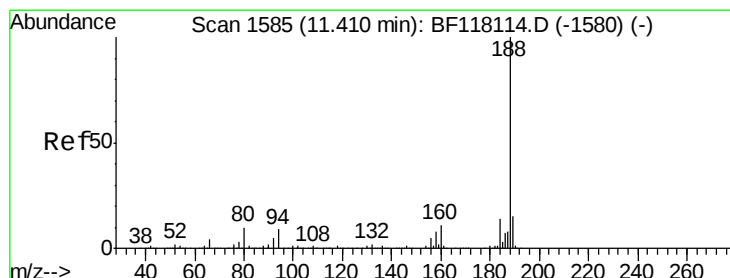
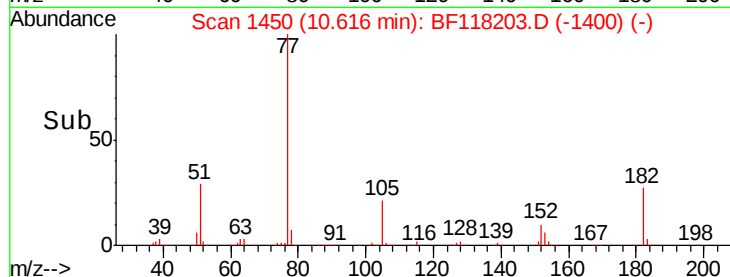
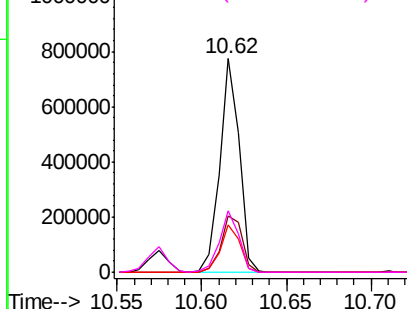
Abundance

Ion 77.00 (76.70 to 77.70): BF1

Ion 182.00 (181.70 to 182.70): E

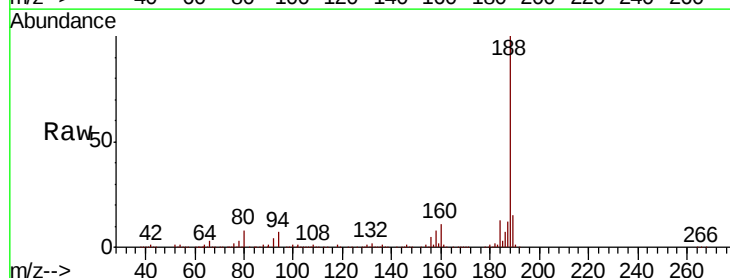
Ion 105.00 (104.70 to 105.70): E

Ion 51.00 (50.70 to 51.70): BF1



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.41 min Scan# 1585
Delta R.T. 0.00 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
188	100		
94	7.2	7.1	10.7
80	7.8	7.9	11.9#

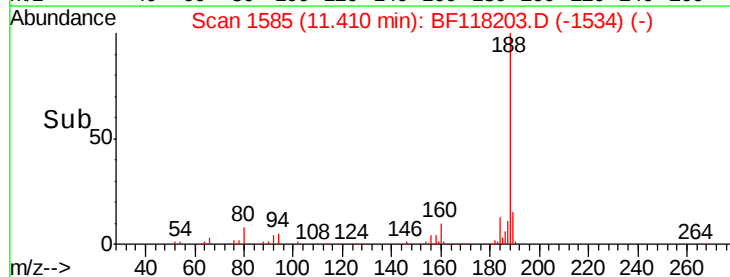
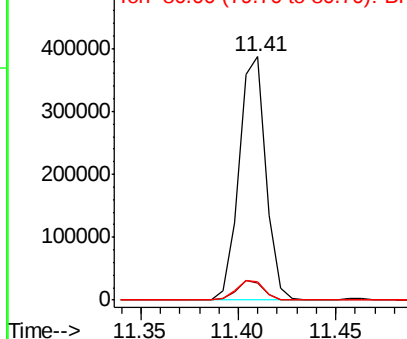


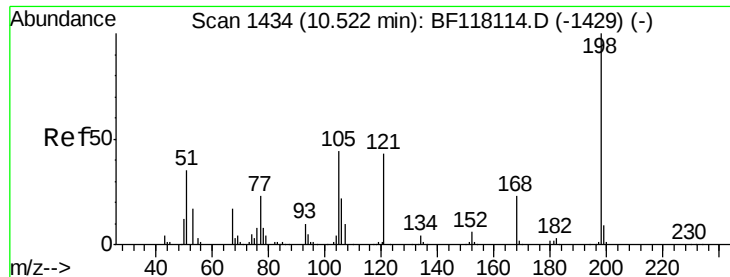
Abundance

Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1





#65

4,6-Dinitro-2-methylphenol

Concen: 55.326 ng

RT: 10.52 min Scan# 1434

Delta R.T. 0.00 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

ClientSampleId :

HD-02-121219MSD

Tot Ion:198 Resp: 112699

Ion Ratio Lower Upper

198 100

51 33.6 22.0 62.0

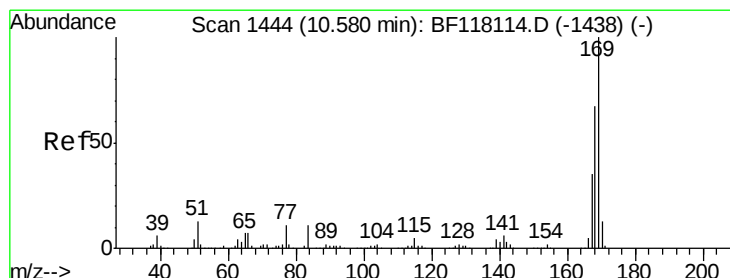
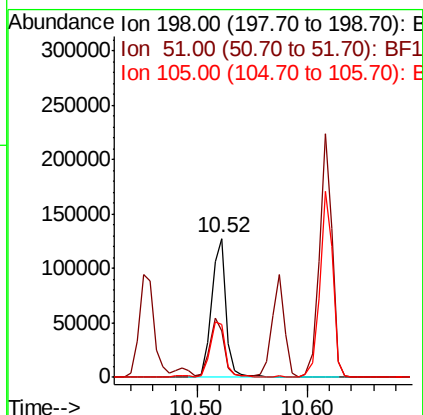
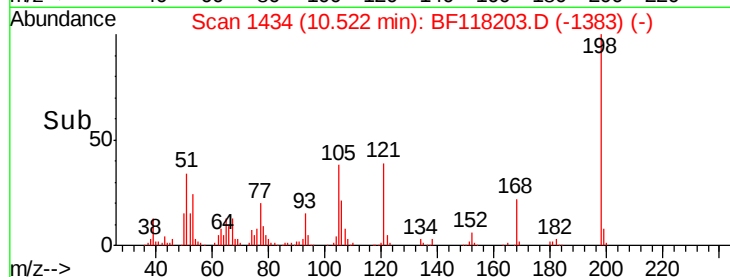
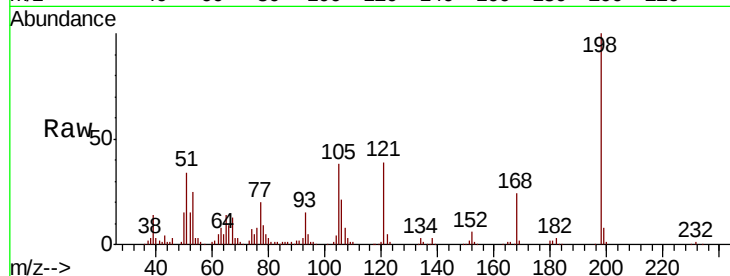
105 37.7 25.6 65.6

Manual Integrations

APPROVED

mohammad

12/17/2019 3:19:26 PM



#66

n-Nitrosodiphenylamine

Concen: 51.559 ng

RT: 10.57 min Scan# 1443

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

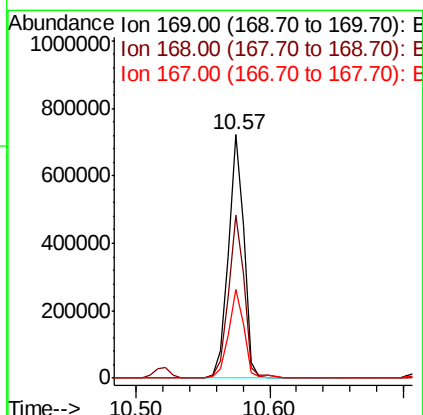
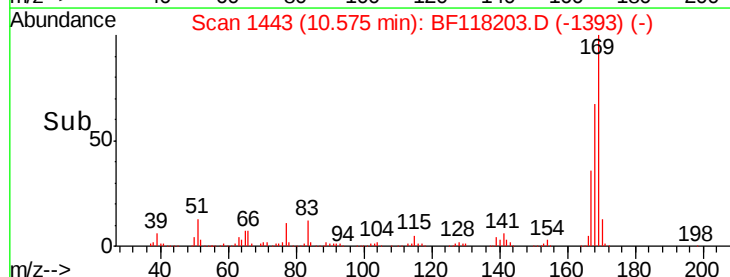
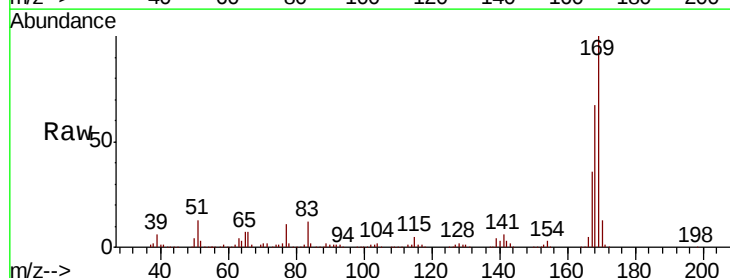
Tgt Ion:169 Resp: 593884

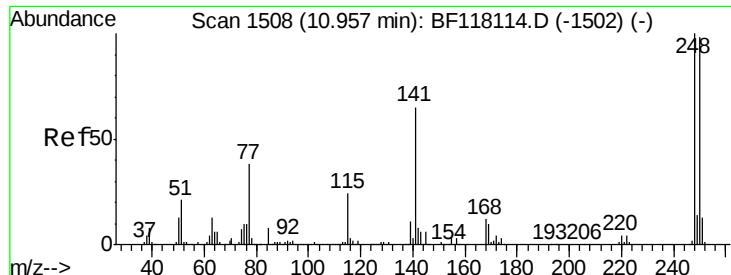
Ion Ratio Lower Upper

169 100

168 67.2 53.4 80.2

167 36.2 28.4 42.6





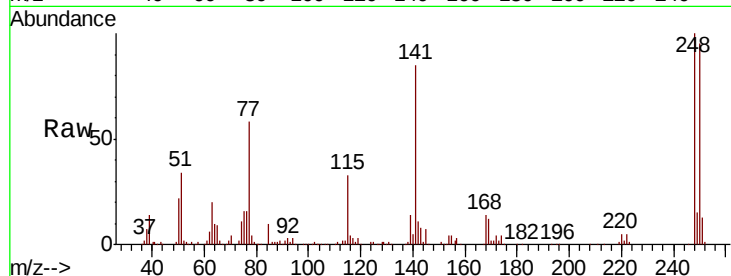
#67
4-Bromophenyl-phenylether
Concen: 49.159 ng
RT: 10.95 min Scan# 1506
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
248	100		
250	95.2	78.3	117.5
141	85.1	52.2	78.4

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

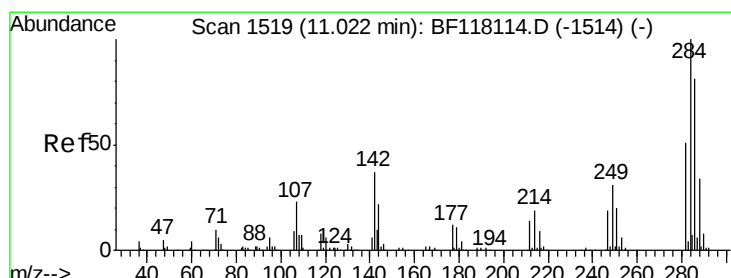
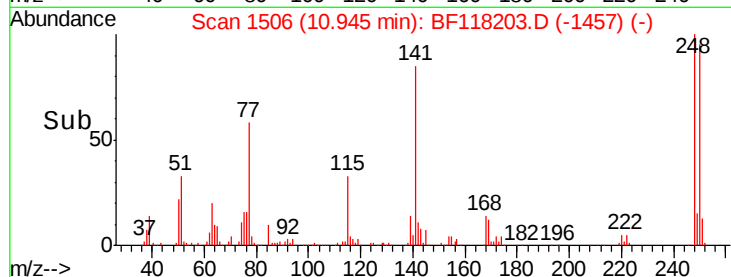
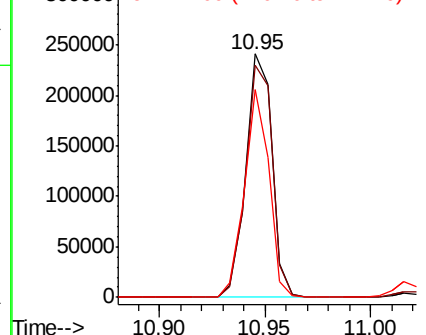


Abundance

Ion 248.00 (247.70 to 248.70): E

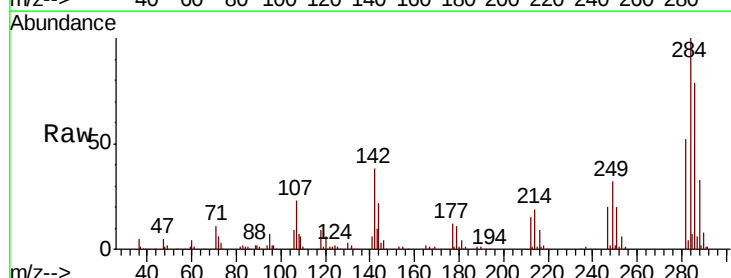
Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E



#68
Hexachlorobenzene
Concen: 48.005 ng
RT: 11.02 min Scan# 1518
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
284	100		
142	37.7	29.7	44.5
249	31.6	24.6	37.0

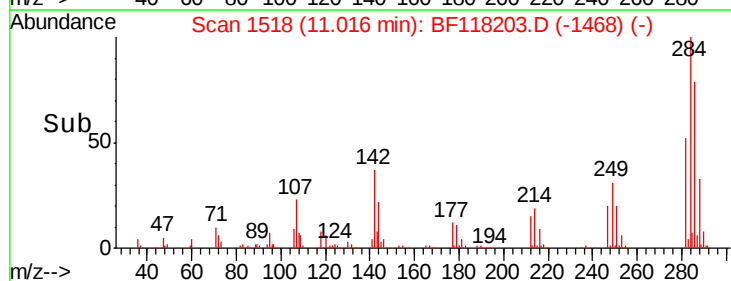
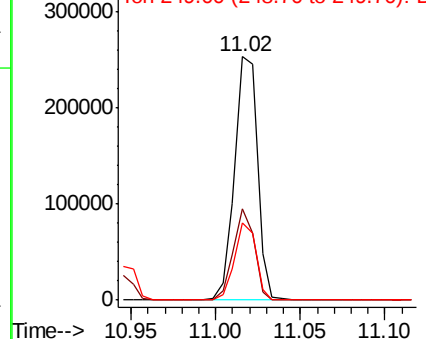


Abundance

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





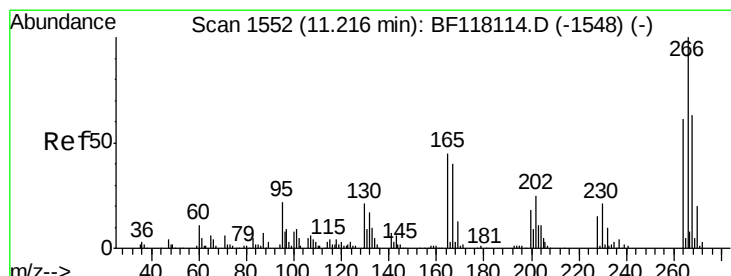
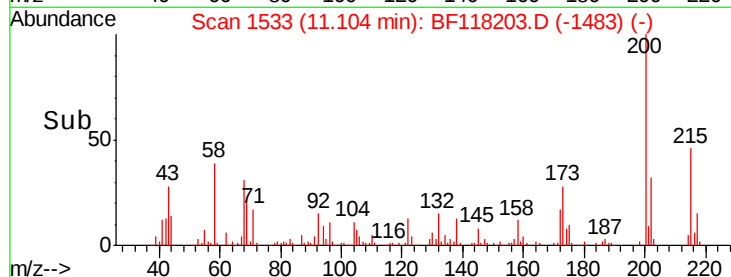
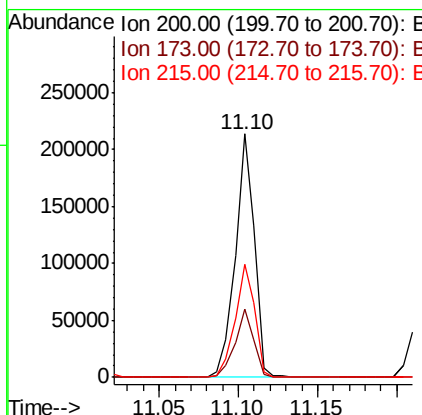
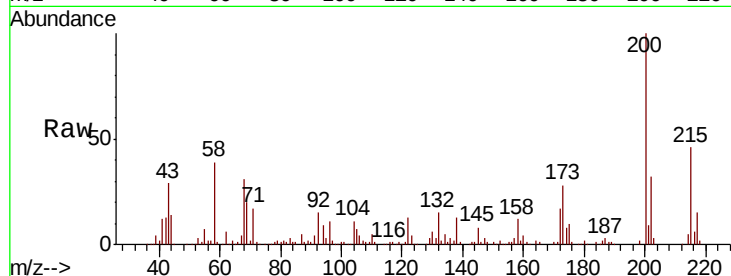
#69
Atrazine
Concen: 81.234 ng
RT: 11.10 min Scan# 1533
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Resp Lower	Upper
200	100		
173	28.1	8.1	48.1
215	46.2	29.0	69.0

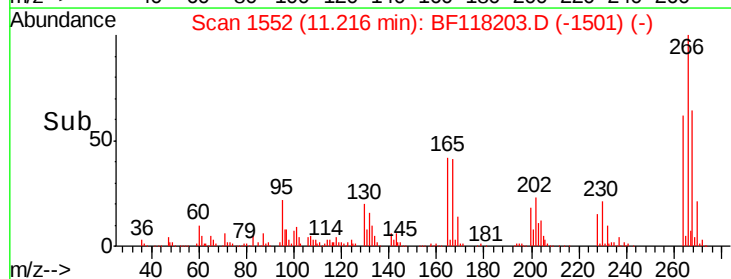
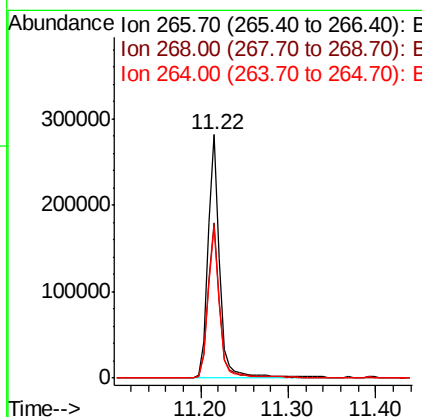
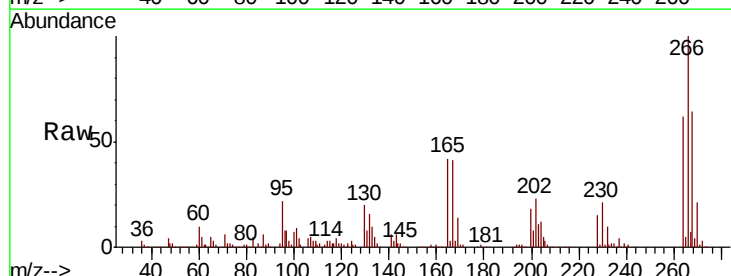
Manual Integrations
APPROVED

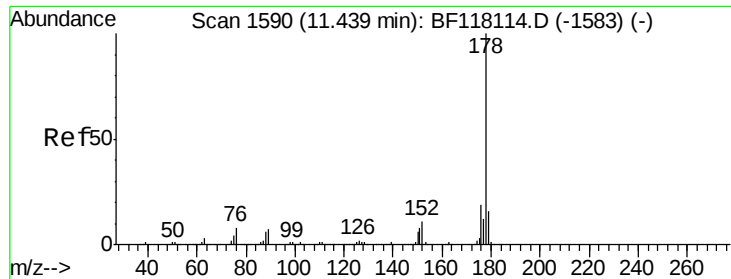
mohammad
12/17/2019 3:19:26 PM



#70
Pentachlorophenol
Concen: 113.530 ng
RT: 11.22 min Scan# 1552
Delta R.T. 0.00 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Resp Lower	Upper
266	100		
268	64.0	50.7	76.1
264	62.1	48.7	73.1





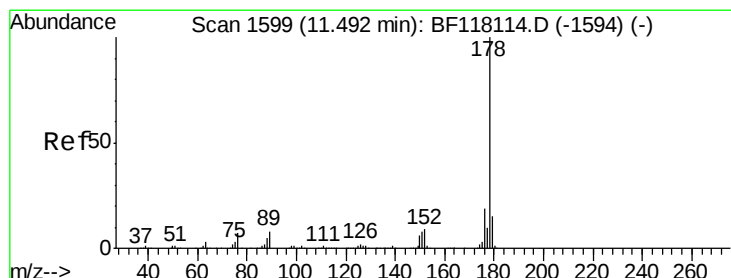
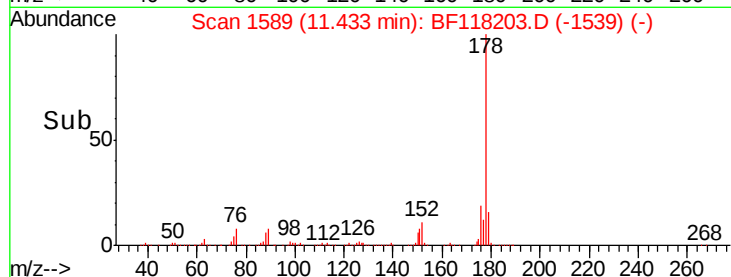
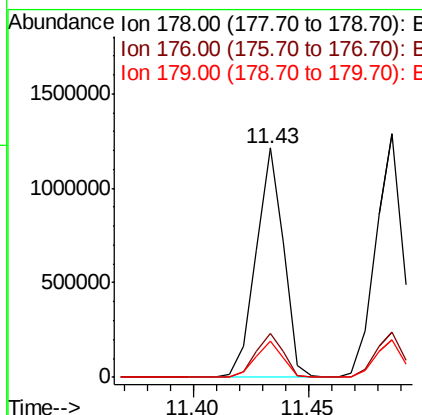
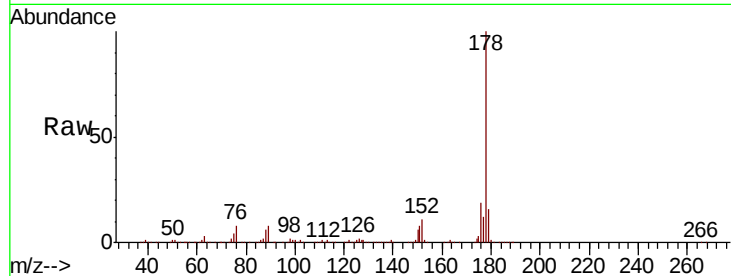
#71
Phenanthrene
Concen: 51.577 ng
RT: 11.43 min Scan# 1589
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	16.0	12.6	18.8

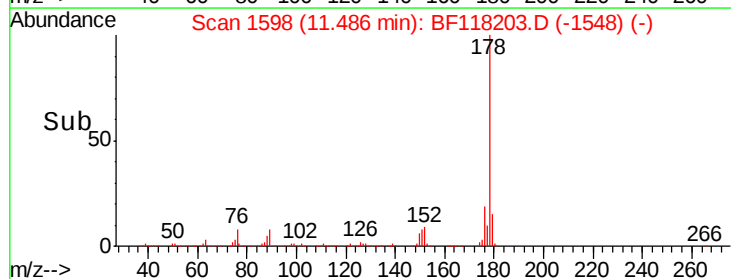
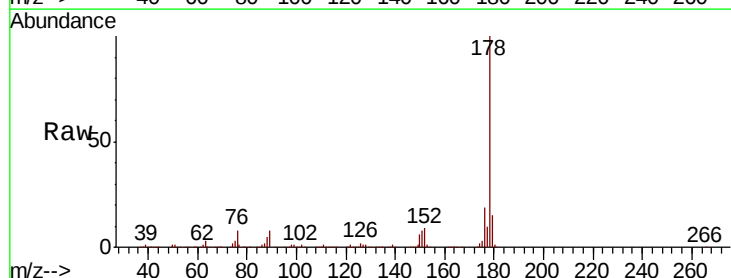
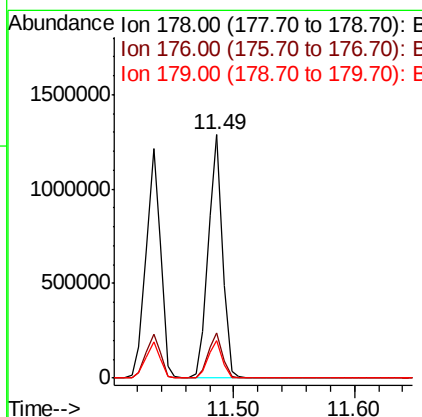
Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



#72
Anthracene
Concen: 53.602 ng
RT: 11.49 min Scan# 1598
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.4	12.2	18.4





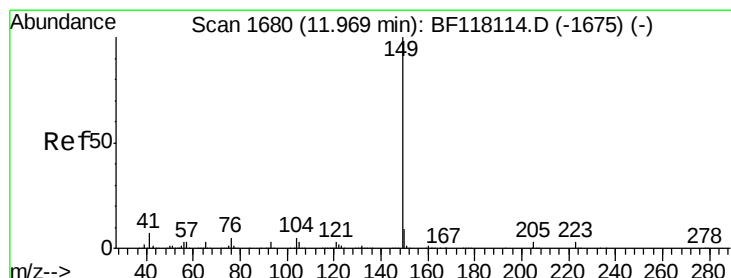
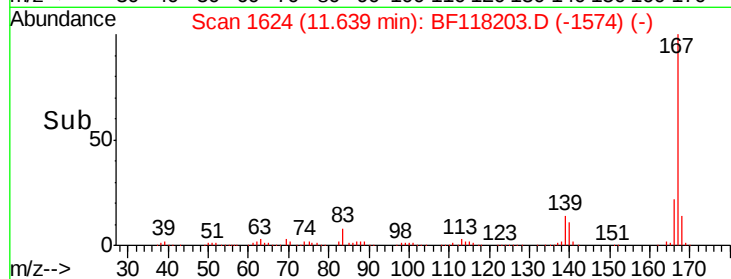
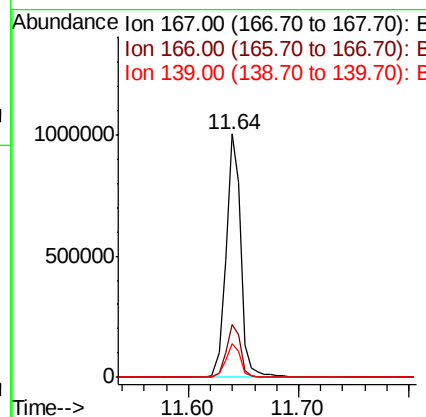
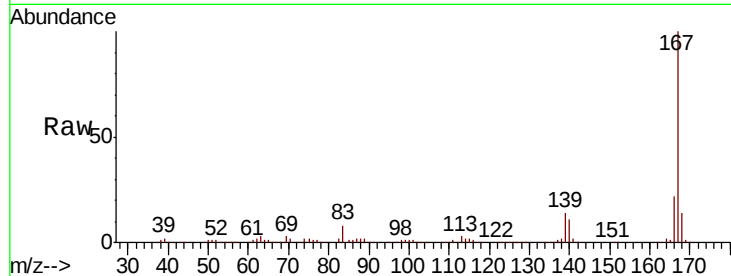
#73
 Carbazole
 Concen: 53.451 ng
 RT: 11.64 min Scan# 1624
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.4	26.2
139	14.0	11.4	17.0

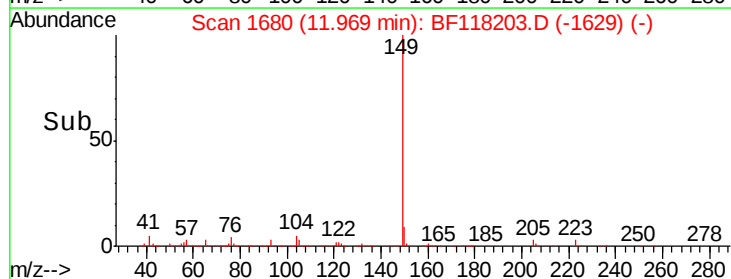
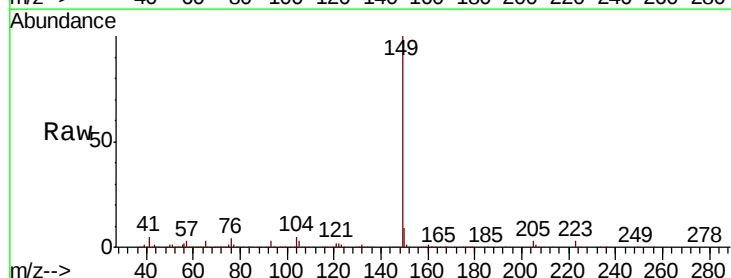
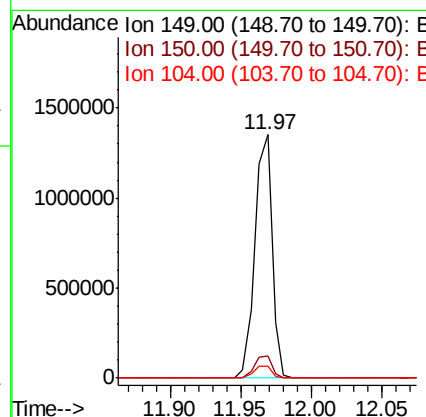
Manual Integrations
 APPROVED

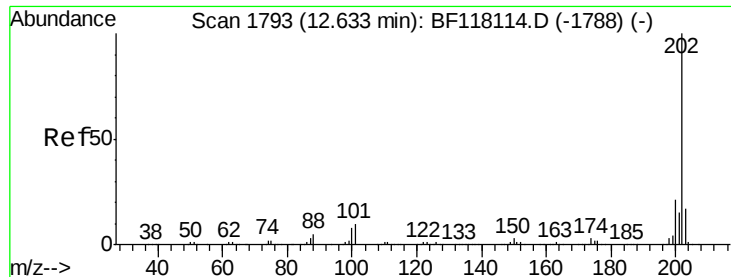
mohammad
 12/17/2019 3:19:26 PM



#74
 Di-n-butylphthalate
 Concen: 53.117 ng
 RT: 11.97 min Scan# 1680
 Delta R.T. 0.00 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.4	11.2
104	4.7	4.3	6.5





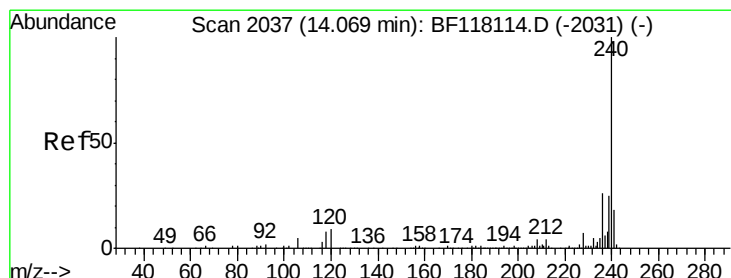
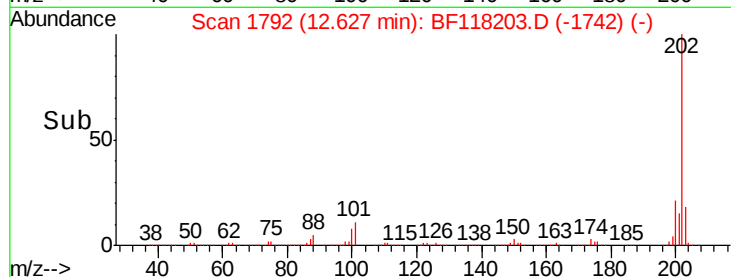
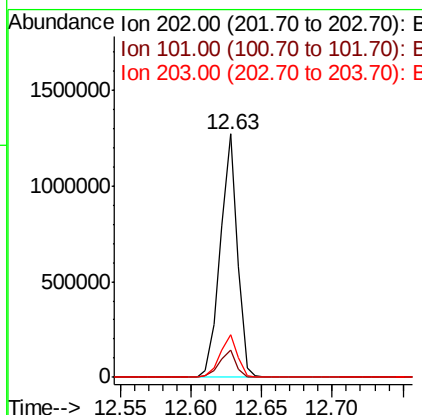
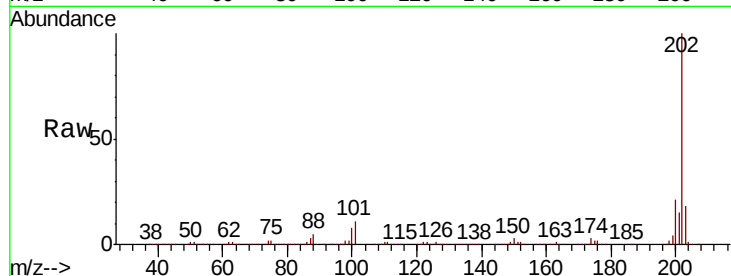
#75
 Fluoranthene
 Concen: 53.437 ng
 RT: 12.63 min Scan# 1792
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	30.4
203	17.6	0.0	37.2

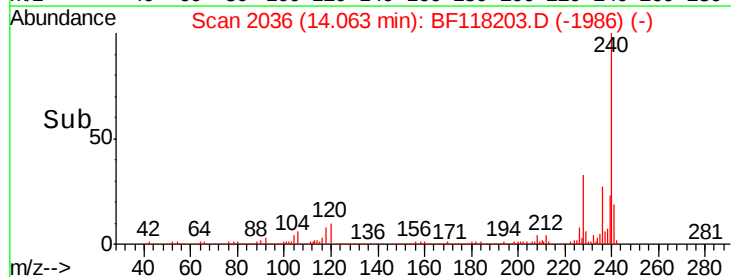
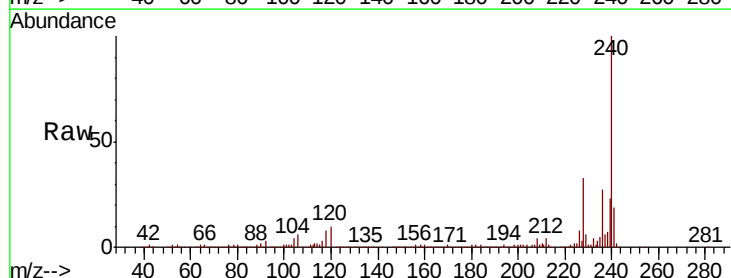
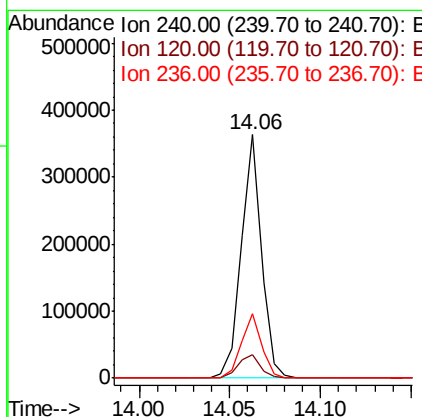
Manual Integrations
 APPROVED

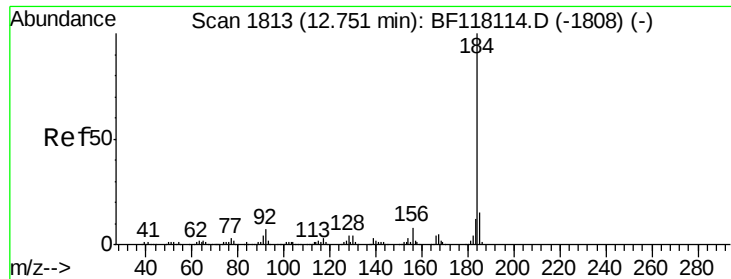
mohammad
 12/17/2019 3:19:26 PM



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 14.06 min Scan# 2036
 Delta R.T. -0.01 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.1	10.7
236	26.6	21.0	31.6





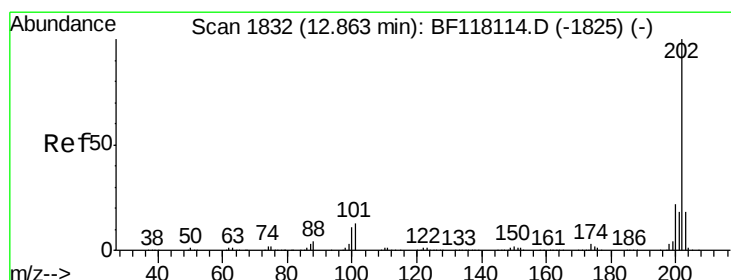
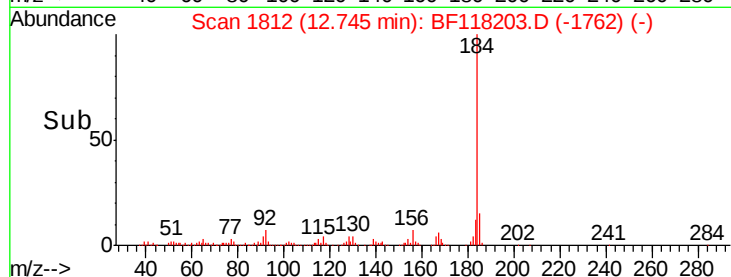
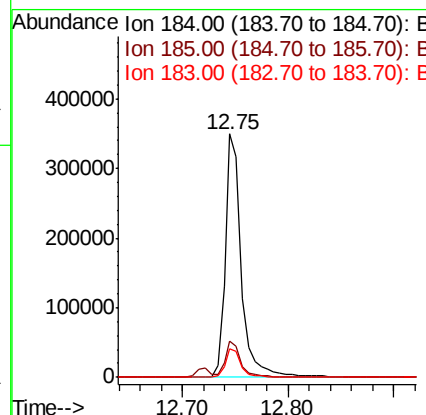
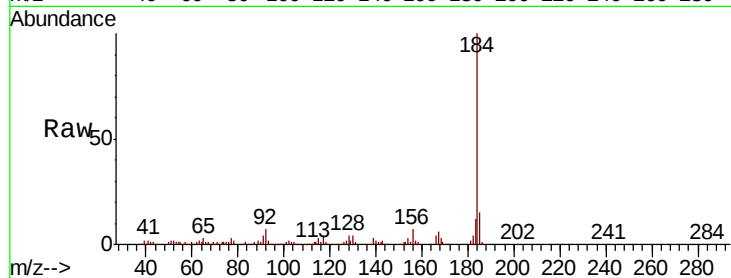
#77
Benzidine
Concen: 50.437 ng
RT: 12.75 min Scan# 1812
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
184	100		
185	14.8	12.3	18.5
183	11.6	9.9	14.9

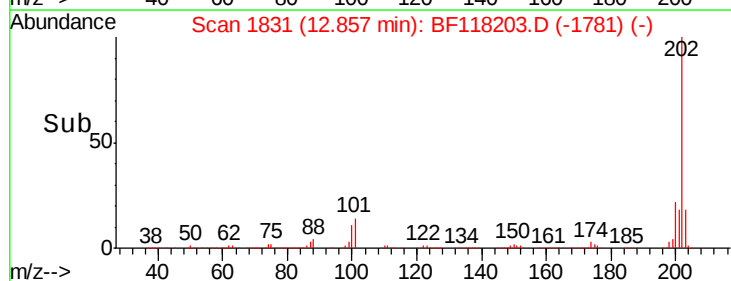
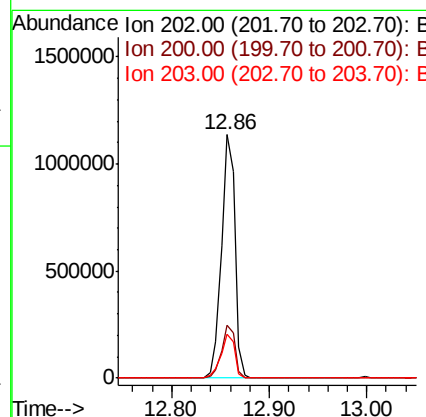
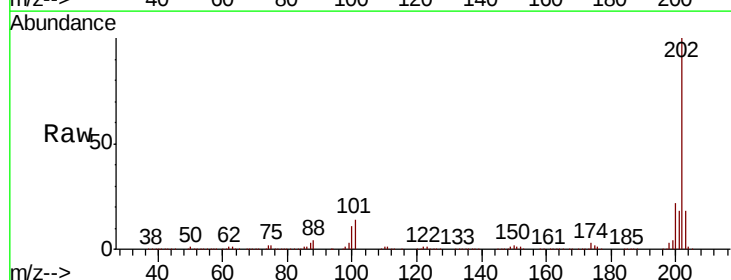
Manual Integrations
APPROVED

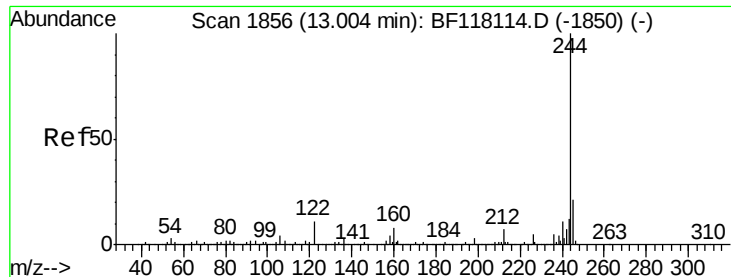
mohammad
12/17/2019 3:19:26 PM



#78
Pyrene
Concen: 49.200 ng
RT: 12.86 min Scan# 1831
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.5	26.3
203	17.8	14.6	21.8





#79

Terphenyl-d14

Concen: 105.327 ng

RT: 13.00 min Scan# 1856

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

ClientSampleId :

HD-02-121219MSD

Tot Ion:244 Resp: 1725281

Ion Ratio Lower Upper

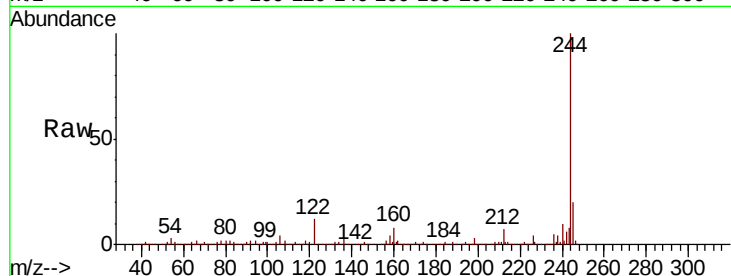
244 100

212 7.2 5.9 8.9

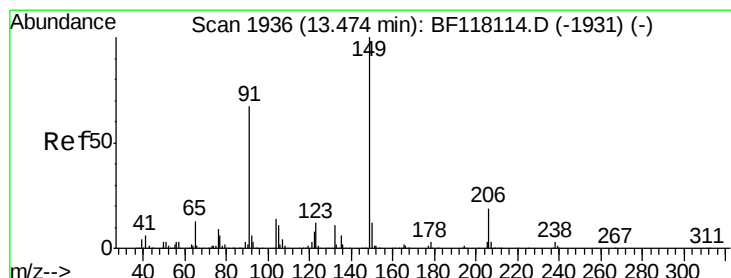
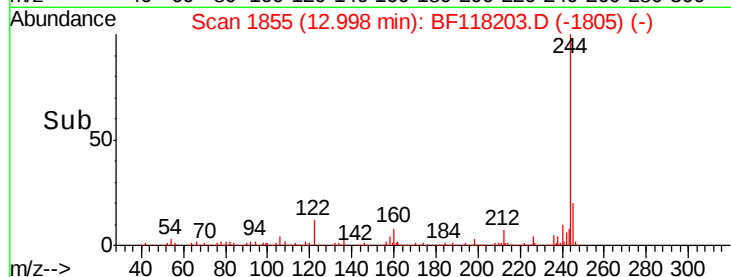
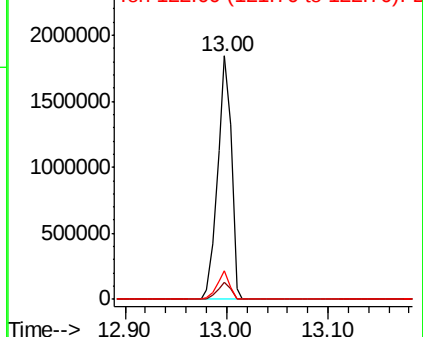
122 11.9 9.0 13.6

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



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



#80

Butylbenzylphthalate

Concen: 51.633 ng

RT: 13.47 min Scan# 1936

Delta R.T. 0.00 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

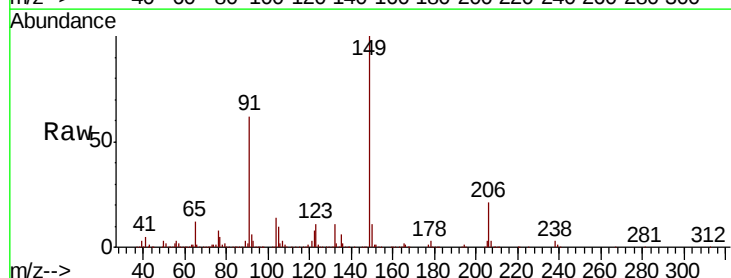
Tgt Ion:149 Resp: 519061

Ion Ratio Lower Upper

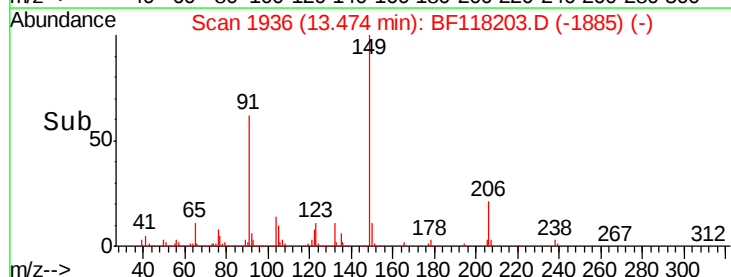
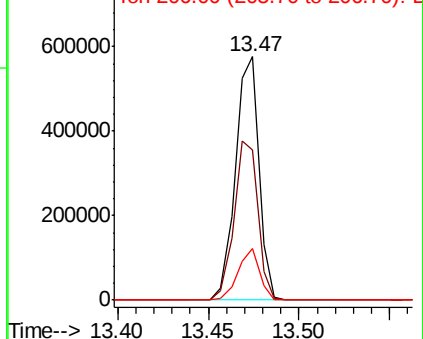
149 100

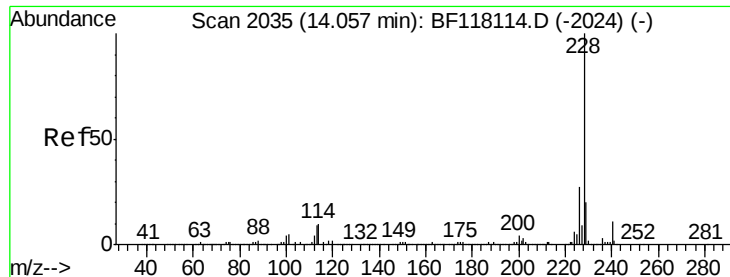
91 61.9 53.9 80.9

206 21.1 15.2 22.8



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





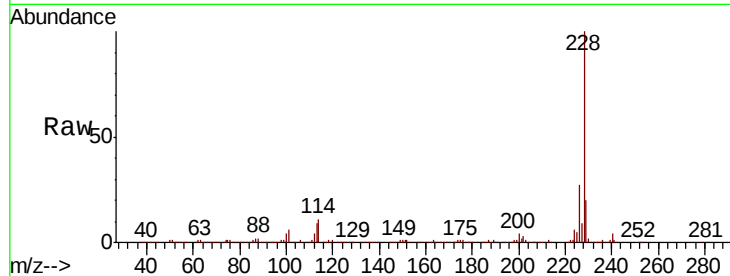
#81
Benzo(a)anthracene
Concen: 50.473 ng
RT: 14.05 min Scan# 2034
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

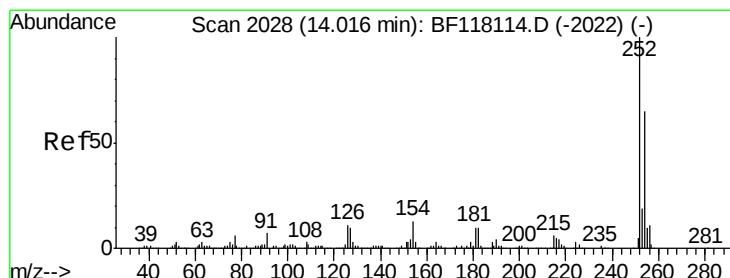
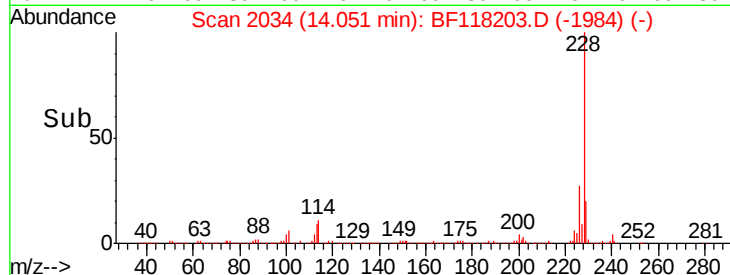
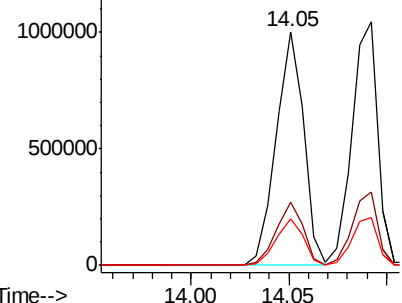
Tot Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.8	32.8
229	19.7	15.8	23.8

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



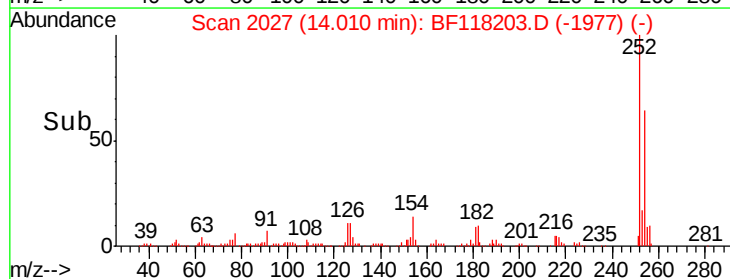
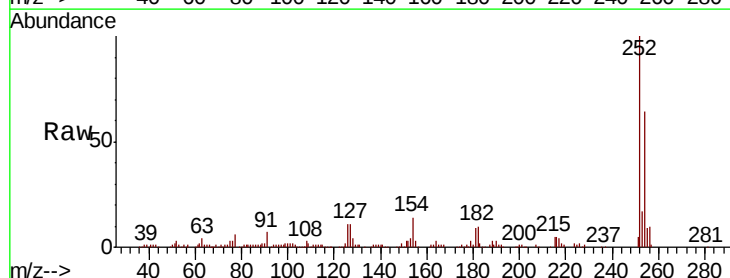
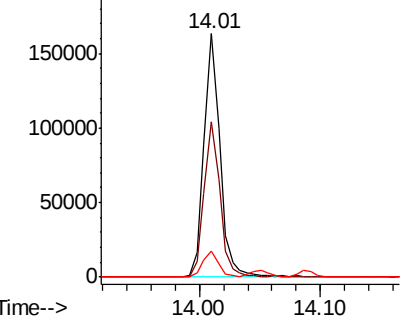
Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

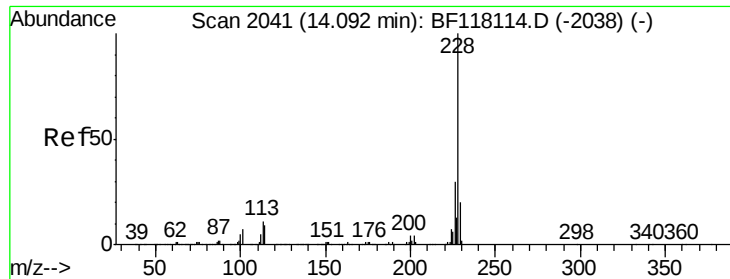


#82
3,3'-Dichlorobenzidine
Concen: 23.320 ng
RT: 14.01 min Scan# 2027
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
252	100		
254	63.9	52.2	78.4
126	10.6	8.6	13.0

Abundance Ion 252.00 (251.70 to 252.70): E
Ion 254.00 (253.70 to 254.70): E
Ion 126.00 (125.70 to 126.70): E





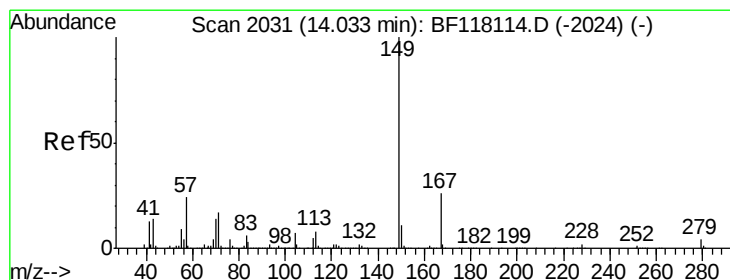
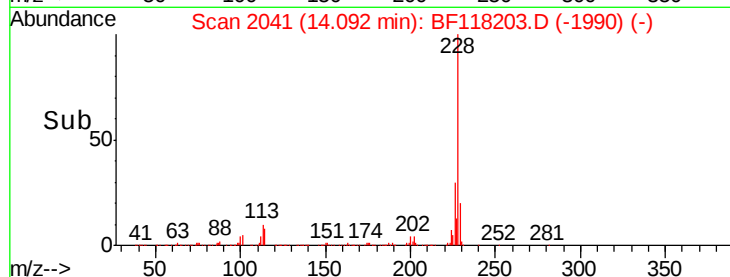
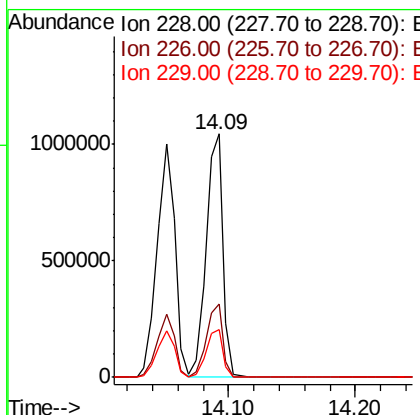
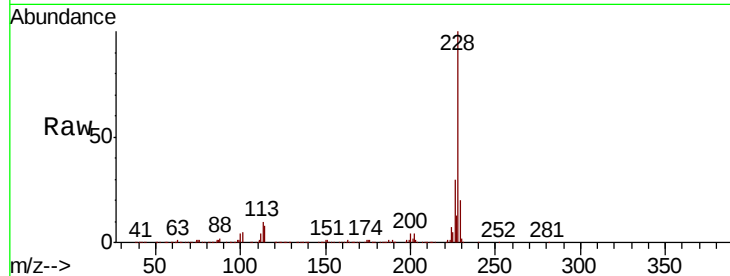
#83
 Chrvsene
 Concen: 51.580 ng
 RT: 14.09 min Scan# 2041
 Delta R.T. 0.00 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Instrument :
 BNA_F
 ClientSampleId :
 HD-02-121219MSD

Tot Ion	Ratio	Resp	Lower	Upper
228	100	959651		
226	30.2		23.8	35.8
229	19.8		15.7	23.5

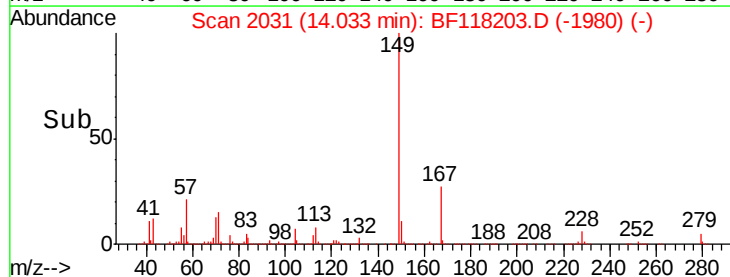
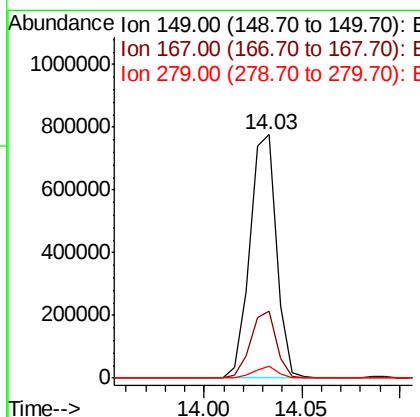
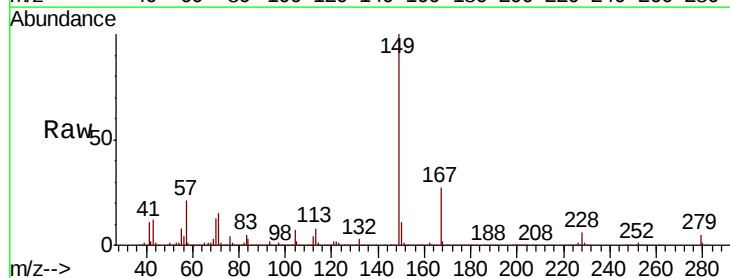
Manual Integrations
 APPROVED

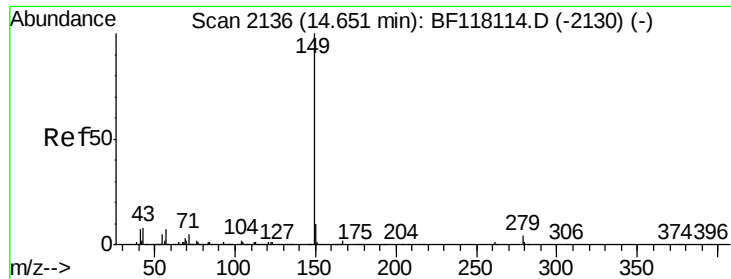
mohammad
 12/17/2019 3:19:26 PM



#84
 Bis(2-ethylhexyl)phthalate
 Concen: 55.545 ng
 RT: 14.03 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: BF118203.D
 Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	736301		
167	27.3		20.8	31.2
279	4.7		2.9	4.3#





#85

Di-n-octyl phthalate

Concen: 59.175 ng

RT: 14.64 min Scan# 2135

Delta R.T. -0.01 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

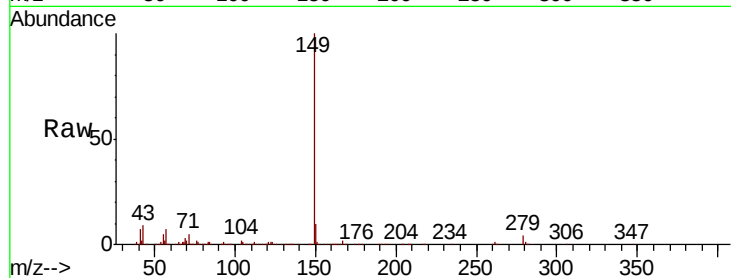
ClientSampleId :

HD-02-121219MSD

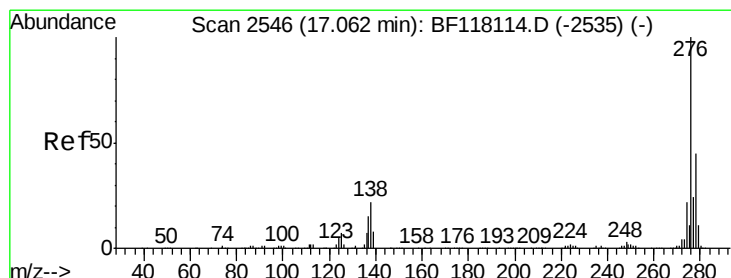
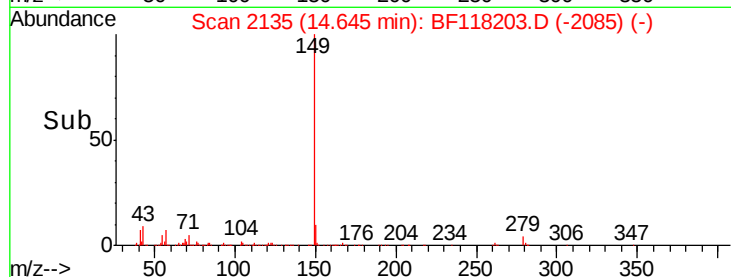
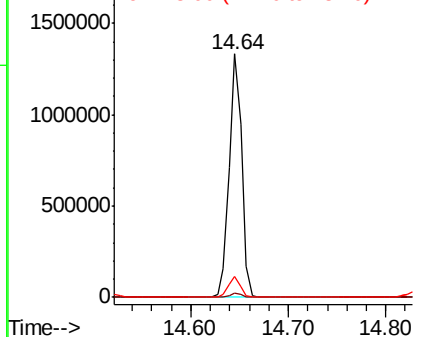
Tot Ion:	149	Resp:	1188257
Ion Ratio	Lower	Upper	
149	100		
167	1.6	1.3	1.9
43	8.1	6.5	9.7

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 59.565 ng

RT: 17.06 min Scan# 2546

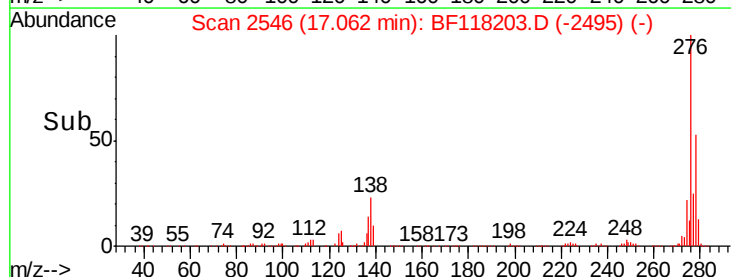
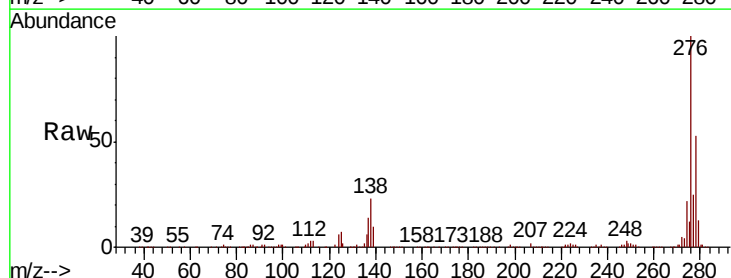
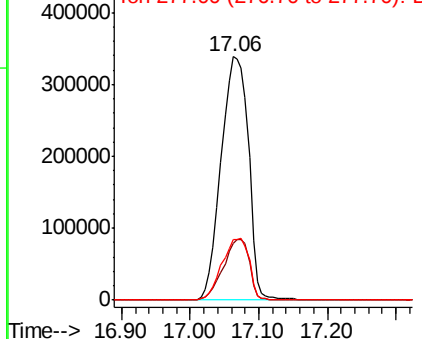
Delta R.T. 0.00 min

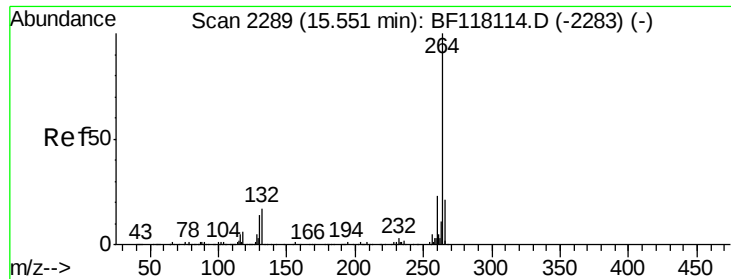
Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Tgt Ion:	276	Resp:	932464
Ion Ratio	Lower	Upper	
276	100		
138	24.0	18.9	28.3
277	25.4	20.4	30.6

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





#87

Pervlene-d12

Concen: 20.000 ng

RT: 15.55 min Scan# 2289

Delta R.T. 0.00 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Instrument :

BNA_F

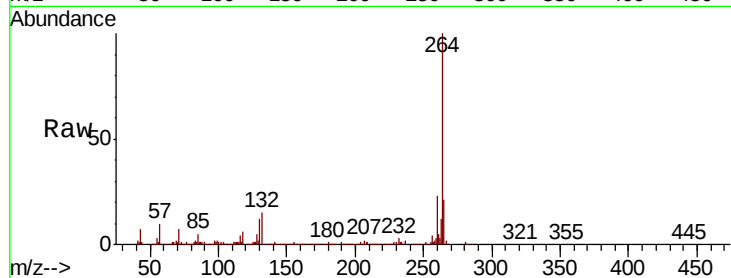
ClientSampleId :

HD-02-121219MSD

Tot Ion	Ion	Ratio	Resp	Lower	Upper
264	100				
260	22.6	18.6	28.0		
265	21.1	16.8	25.2		

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM

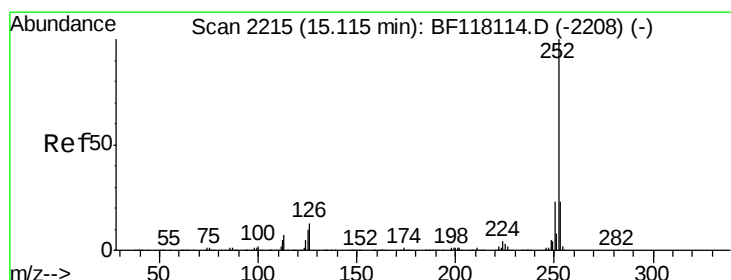
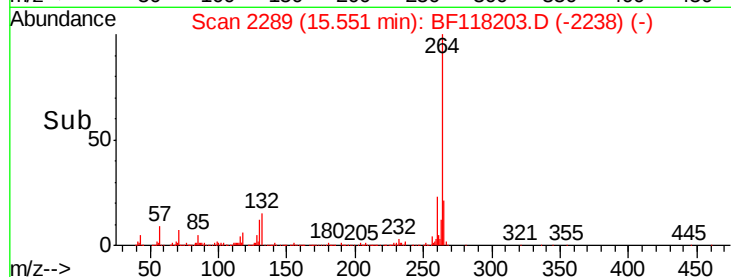
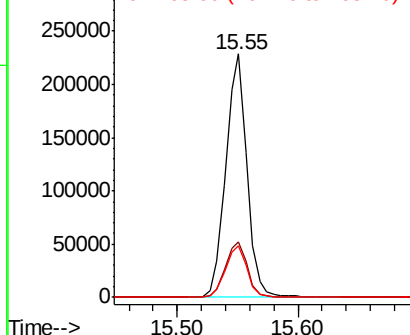


Abundance

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



#88

Benzo(b)fluoranthene

Concen: 49.061 ng

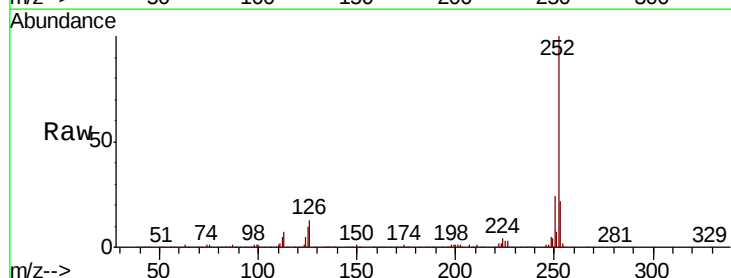
RT: 15.12 min Scan# 2215

Delta R.T. 0.00 min

Lab File: BF118203.D

Acq: 16 Dec 2019 18:22

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
252	100				
253	22.5	18.2	27.4		
125	10.0	8.3	12.5		

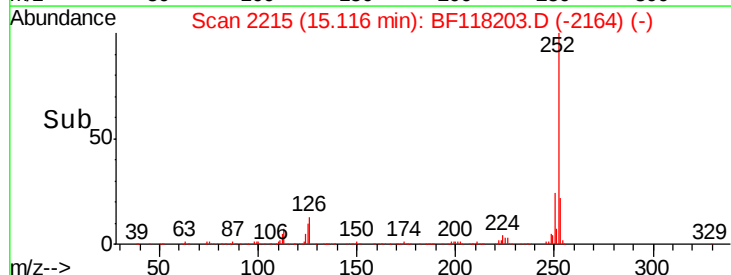
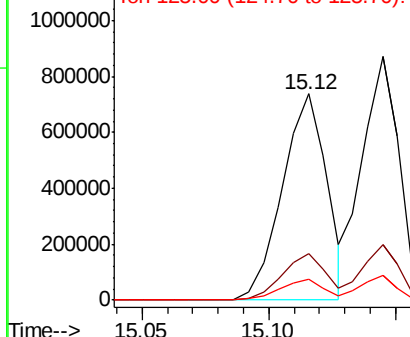


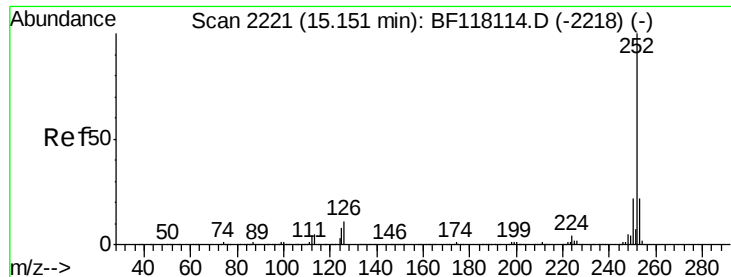
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





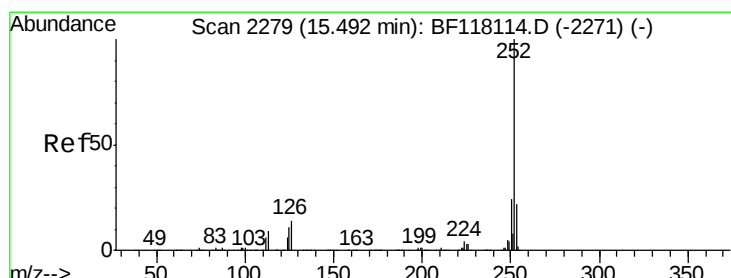
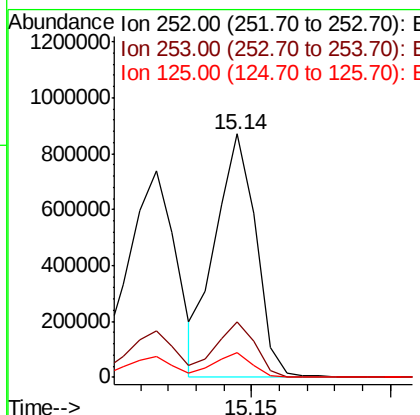
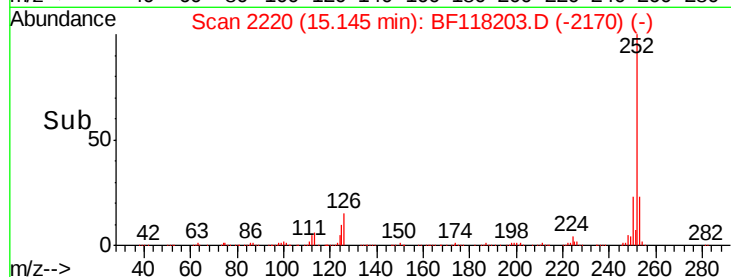
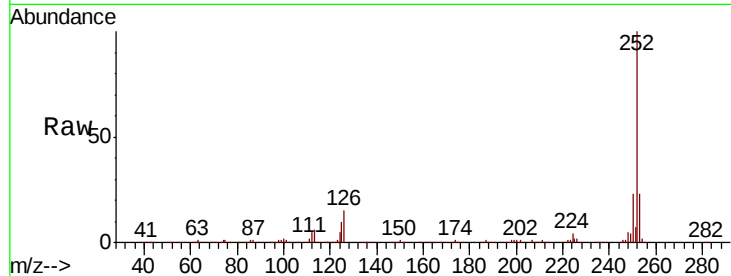
#89
Benzo(k)fluoranthene
Concen: 50.433 ng m
RT: 15.14 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.6	26.4
125	10.3	6.7	10.1

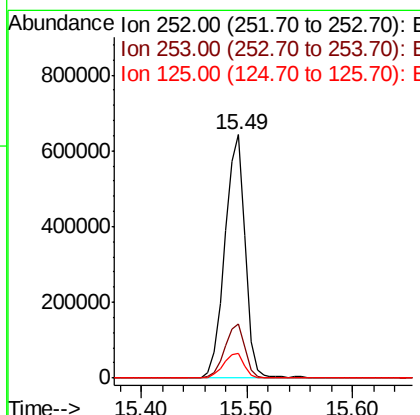
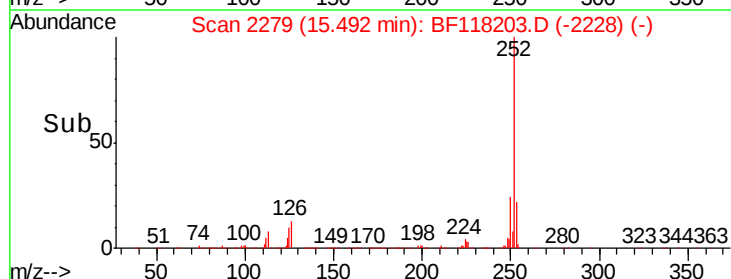
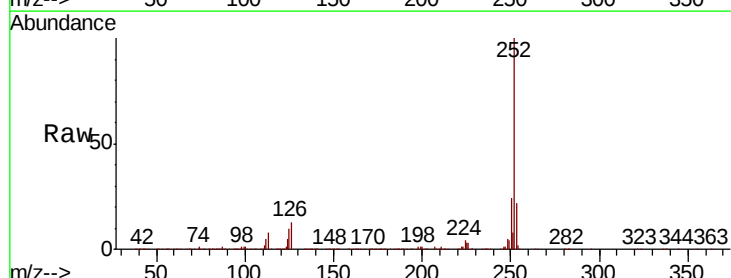
Manual Integrations
APPROVED

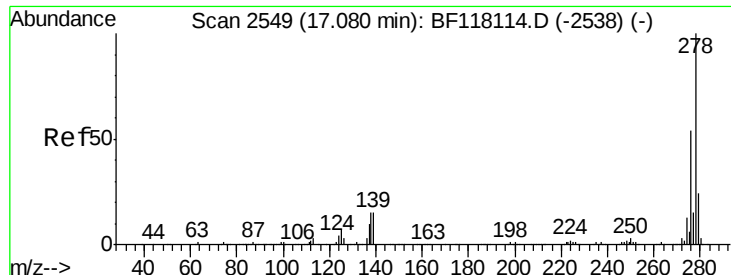
mohammad
12/17/2019 3:19:26 PM



#90
Benzo(a)pyrene
Concen: 52.653 ng
RT: 15.49 min Scan# 2279
Delta R.T. 0.00 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.5	26.3
125	10.4	9.1	13.7





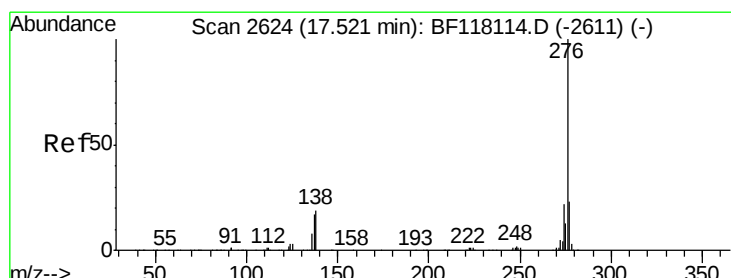
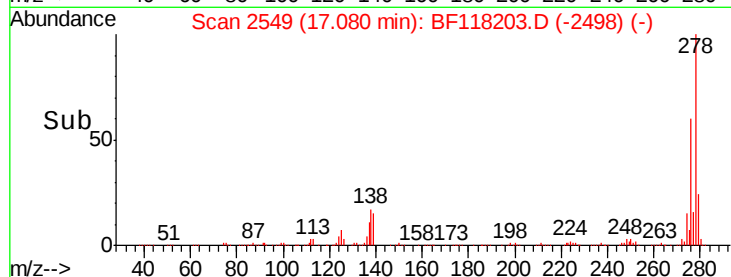
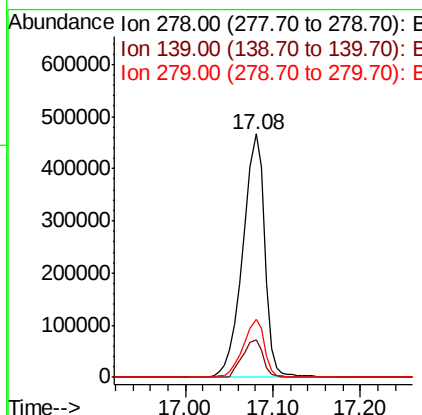
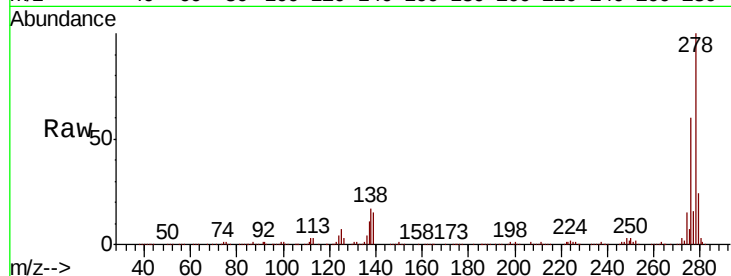
#91
Dibenzo(a,h)anthracene
Concen: 56.489 ng
RT: 17.08 min Scan# 2549
Delta R.T. 0.00 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Instrument :
BNA_F
ClientSampleId :
HD-02-121219MSD

Tot Ion	Ratio	Lower	Upper
278	100		
139	15.2	11.7	17.5
279	23.7	19.0	28.4

Manual Integrations
APPROVED

mohammad
12/17/2019 3:19:26 PM



#92
Benzo(g,h,i)perylene
Concen: 58.442 ng
RT: 17.52 min Scan# 2624
Delta R.T. 0.00 min
Lab File: BF118203.D
Acq: 16 Dec 2019 18:22

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.2	27.4
138	20.1	15.5	23.3

