

Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA_F\DATA\BF062919\
 Data File : BF115324.D
 Acq On : 29 Jun 2019 15:47
 Operator : HP/JU
 Sample : K3601-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT-4651

Manual Integrations
 APPROVED

mohammad
 7/1/2019 5:59:13 PM

Quant Time: Jun 30 02:46:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 28 05:26:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.60	152	180983	20.00	ng	0.00
21) Naphthalene-d8	7.88	136	712626	20.00	ng	0.00
39) Acenaphthene-d10	9.62	164	358406	20.00	ng	0.00
64) Phenanthrene-d10	11.10	188	746279	20.00	ng	0.00
76) Chrysene-d12	13.71	240	640490	20.00	ng	0.00
87) Perylene-d12	15.08	264	650305	20.00	ng	0.00

System Monitoring Compounds

5) 2-Fluorophenol	5.19	112	1030000	87.82	ng	0.00
7) Phenol-d6	6.24	99	1320355	92.75	ng	0.00
23) Nitrobenzene-d5	7.16	82	769480	66.42	ng	0.00
42) 2,4,6-Tribromophenol	10.41	330	406081	107.44	ng	0.00
45) 2-Fluorobiphenyl	8.95	172	1553424	73.62	ng	0.00
79) Terphenyl-d14	12.68	244	1902584	63.16	ng	0.00

Target Compounds

						Qvalue
2) 1,4-Dioxane	2.15	88	362	0.065	ng	# 79
4) n-Nitrosodimethylamine	3.00	42	107	0.017	ng	# 1
6) Aniline	6.25	93	471	0.024	ng	# 1
8) 2-Chlorophenol	6.38	128	257	0.019	ng	# 1
9) Benzaldehyde	6.24	77	2099	0.226	ng	# 1
10) Phenol	6.25	94	8965	0.538	ng	81
11) bis(2-Chloroethyl)ether	6.37	93	1459	0.119	ng	# 1
15) Benzyl Alcohol	6.75	79	12659	1.221	ng	# 42
16) 2,2'-oxybis(1-Chloropropan	7.15	45	283	0.016	ng	# 1
22) Acetophenone	7.01	105	293	0.018	ng	# 50
24) Nitrobenzene	7.16	77	2422	0.190	ng	# 32
31) Naphthalene	7.90	128	2135	0.061	ng	# 67
36) 4-Chloro-3-methylphenol	8.50	107	550	0.051	ng	# 17
37) 2-Methylnaphthalene	8.59	142	851	0.036	ng	90
38) 1-Methylnaphthalene	8.69	142	1173	0.052	ng	# 87
46) 1,1'-Biphenyl	9.05	154	3169	0.111	ng	95
47) 2-Chloronaphthalene	9.35	162	1590	0.068	ng	# 1
48) 2-Nitroaniline	9.35	65	2809	0.414	ng	# 1
49) Acenaphthylene	9.48	152	16778	0.463	ng	96
50) Dimethylphthalate	9.35	163	313494	11.889	ng	99
51) 2,6-Dinitrotoluene	9.35	165	3473	0.570	ng	# 15
52) Acenaphthene	9.65	154	1519	0.067	ng	# 80
55) Dibenzofuran	9.82	168	1221	0.038	ng	# 84
56) 4-Nitrophenol	9.82	139	323	0.054	ng	# 11
60) Diethylphthalate	10.05	149	609	0.023	ng	# 58
62) 4-Nitroaniline	10.34	138	118	0.016	ng	# 24
63) Azobenzene	10.33	77	272	0.011	ng	# 1
66) n-Nitrosodiphenylamine	10.41	169	12486	0.537	ng	# 41
69) Atrazine	10.91	200	139	0.019	ng	# 36
70) Pentachlorophenol	10.91	266	2013	0.360	ng	93
71) Phenanthrene	11.12	178	74724	1.860	ng	95
72) Anthracene	11.17	178	12531	0.309	ng	96
73) Carbazole	11.32	167	7540	0.208	ng	# 95
74) Di-n-butylphthalate	11.67	149	4409	0.105	ng	# 83

Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA_F\DATA\BF062919\
 Data File : BF115324.D
 Acq On : 29 Jun 2019 15:47
 Operator : HP/JU
 Sample : K3601-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RT-4651

Manual Integrations
 APPROVED

mohammad
 7/1/2019 5:59:13 PM

Quant Time: Jun 30 02:46:57 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 28 05:26:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
75) Fluoranthene	12.30	202	208546	5.202	ng	97
77) Benzidine	12.68	184	24269	0.853	ng #	95
78) Pyrene	12.52	202	200594	4.075	ng	98
80) Butylbenzylphthalate	13.16	149	4881	0.225	ng	93
81) Benzo(a)anthracene	13.70	228	112378m	2.445	ng	
82) 3,3'-Dichlorobenzidine	13.69	252	359	0.022	ng #	1
83) Chrysene	13.74	228	123609	2.936	ng	97
84) Bis(2-ethylhexyl)phthalate	13.72	149	99175	3.484	ng	97
85) Di-n-octyl phthalate	14.31	149	2619	0.055	ng #	75
86) Indeno(1,2,3-cd)pyrene	16.34	276	60430	1.213	ng	97
88) Benzo(b)fluoranthene	14.70	252	159638m	3.934	ng	
90) Benzo(a)pyrene	15.02	252	102361	2.799	ng	99
91) Dibenzo(a,h)anthracene	16.35	278	16871	0.494	ng #	87

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

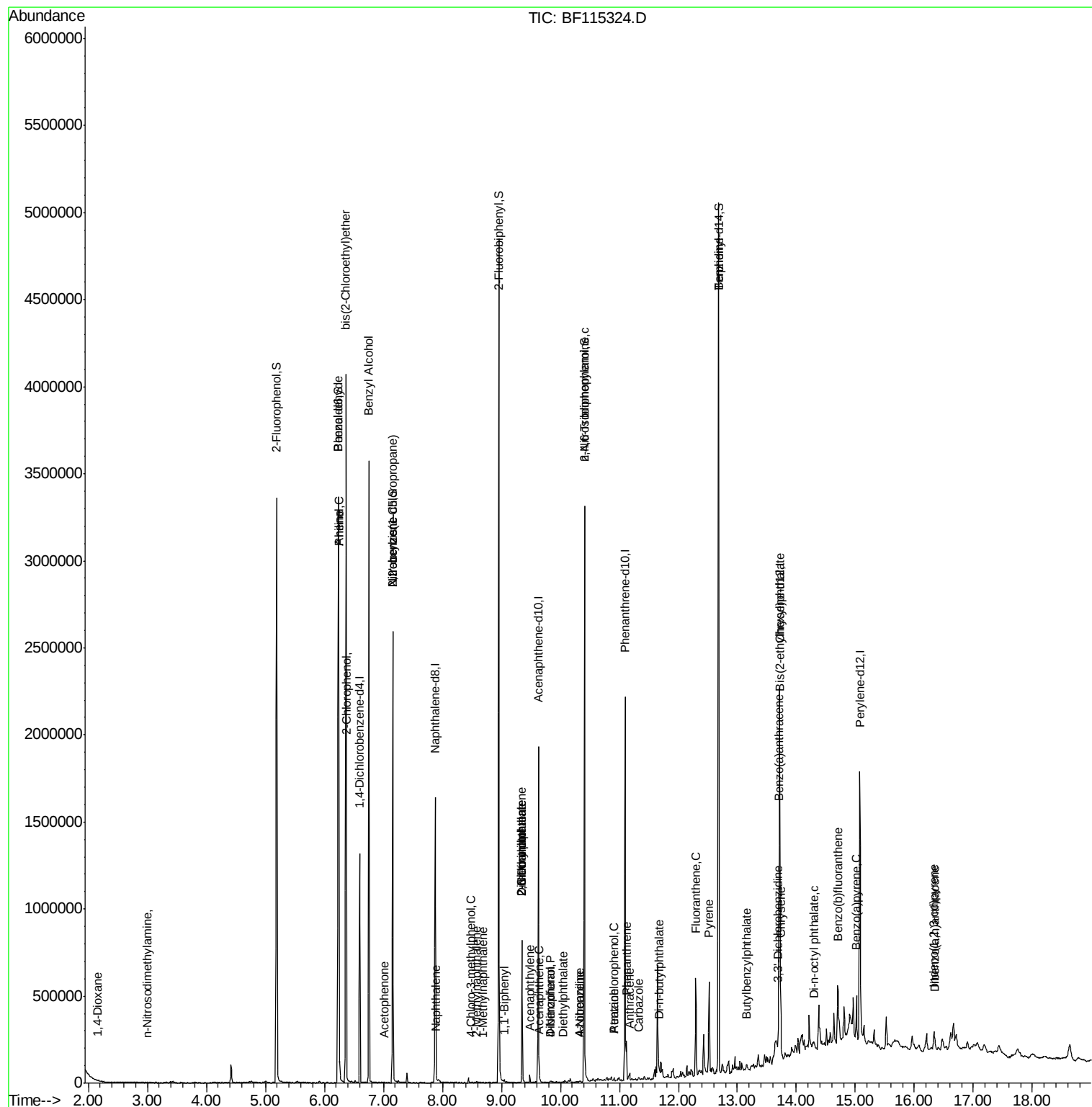
Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA_F\DATA\BF062919\
Data File : BF115324.D
Acq On : 29 Jun 2019 15:47
Operator : HP/JU
Sample : K3601-01
Misc :
ALS Vial : 18 Sample Multiplier: 1

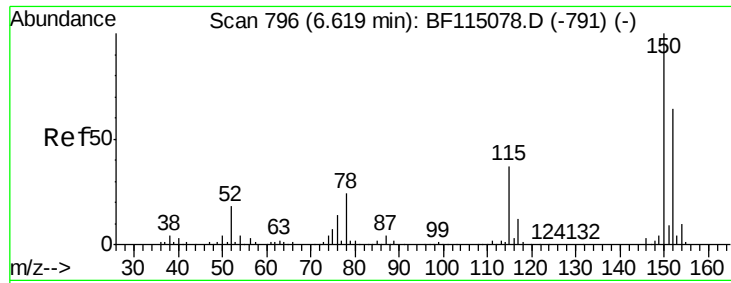
Instrument :
BNA_F
ClientSampleId :
RT-4651

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM

Quant Time: Jun 30 02:46:57 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF062119.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 28 05:26:43 2019
Response via : Initial Calibration





#1

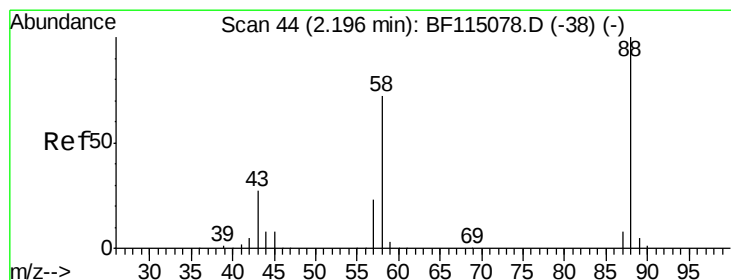
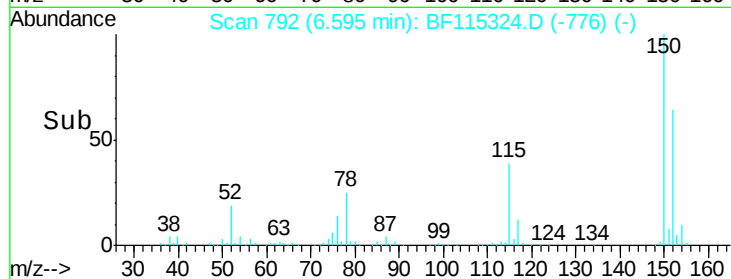
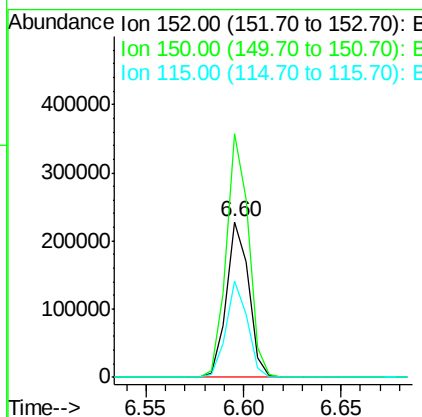
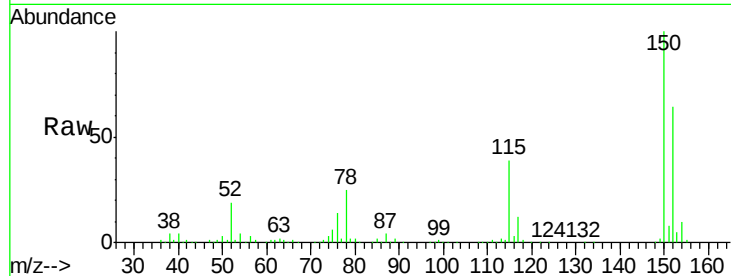
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.60 min Scan# 792
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Lower	Upper
152	100		
150	156.7	124.2	186.2
115	61.7	46.1	69.1

Manual Integrations
APPROVED

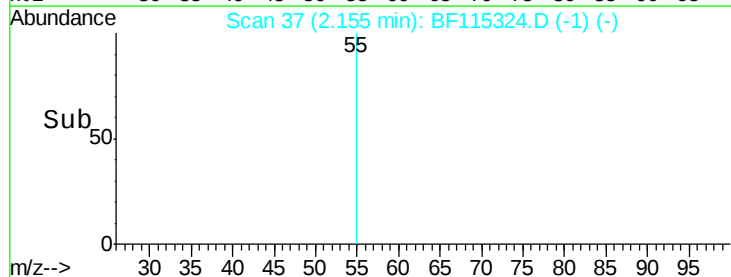
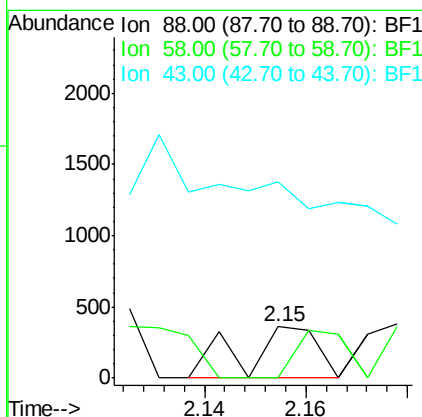
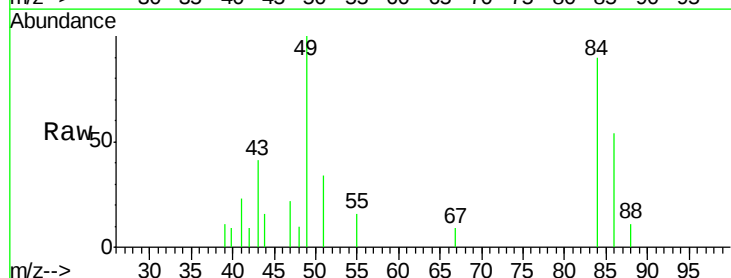
mohammad
7/1/2019 5:59:13 PM

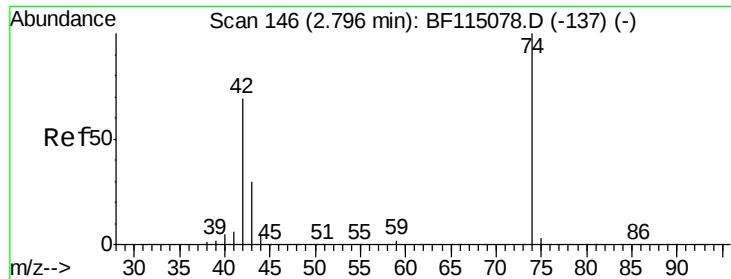


#2

1,4-Dioxane
Concen: 0.065 ng
RT: 2.15 min Scan# 37
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
88	100		
58	62.7	56.1	84.1
43	0.0	21.3	31.9#





#4

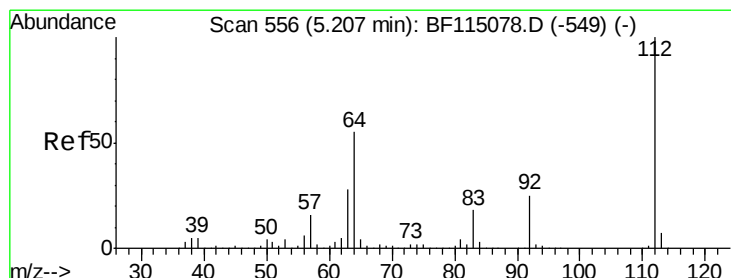
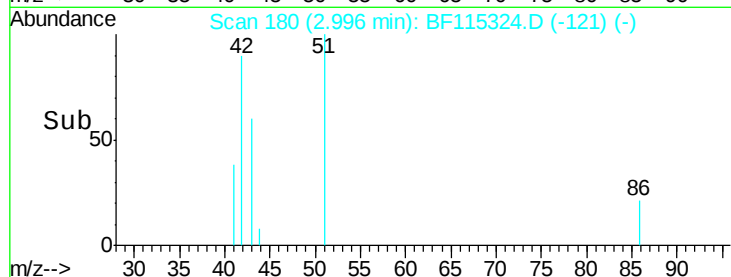
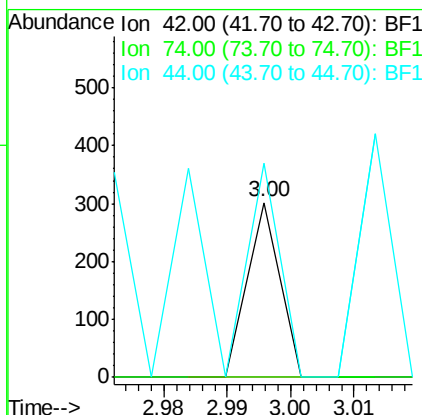
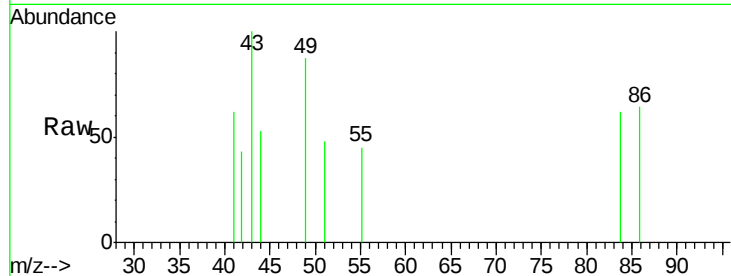
n-Nitrosodimethylamine
 Concen: 0.017 ng
 RT: 3.00 min Scan# 180
 Delta R.T. 0.25 min
 Lab File: BF115324.D
 Acq: 29 Jun 2019 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RT-4651

Tgt Ion	Ratio	Lower	Upper
42	100		
74	0.0	116.6	175.0#
44	122.5	5.3	7.9#

Manual Integrations
 APPROVED

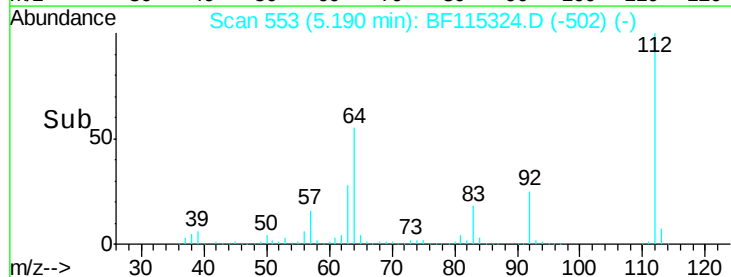
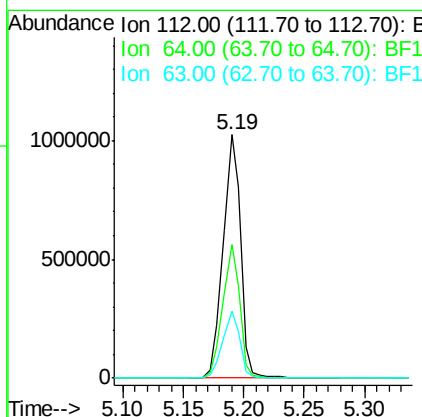
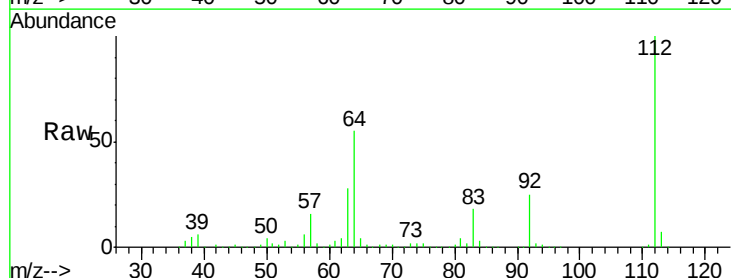
mohammad
 7/1/2019 5:59:13 PM

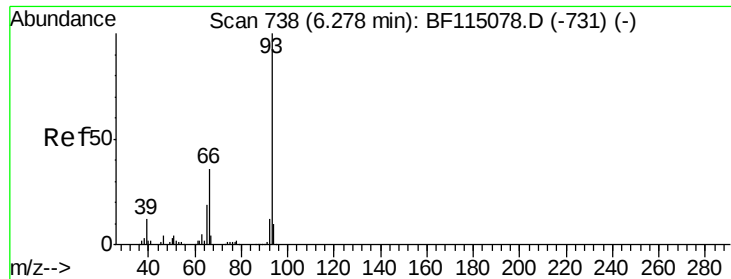


#5

2-Fluorophenol
 Concen: 87.824 ng
 RT: 5.19 min Scan# 553
 Delta R.T. 0.00 min
 Lab File: BF115324.D
 Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.9	43.8	65.6
63	27.7	22.2	33.4





#6

Aniline

Concen: 0.024 ng

RT: 6.25 min Scan# 733

Delta R.T. -0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

ClientSampleId :

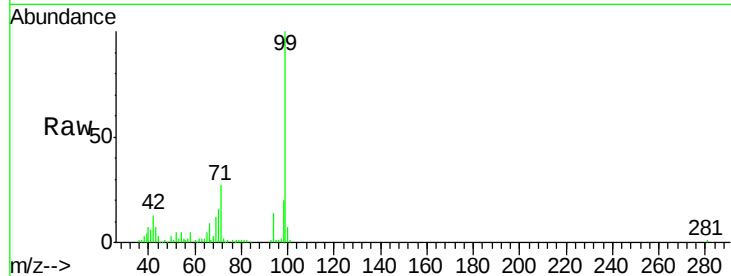
RT-4651

Tgt Ion: 93 Resp: 471

Ion	Ratio	Lower	Upper
93	100		
66	1414.7	30.0	45.0
65	771.0	15.6	23.4

Manual Integrations
APPROVED

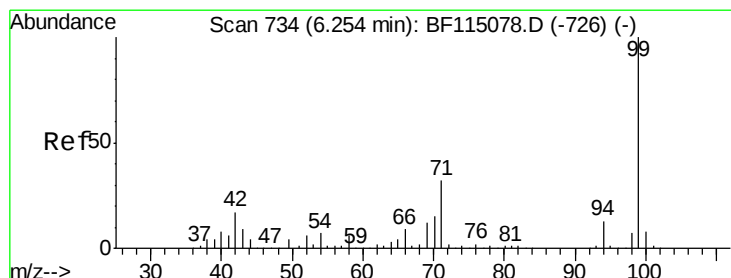
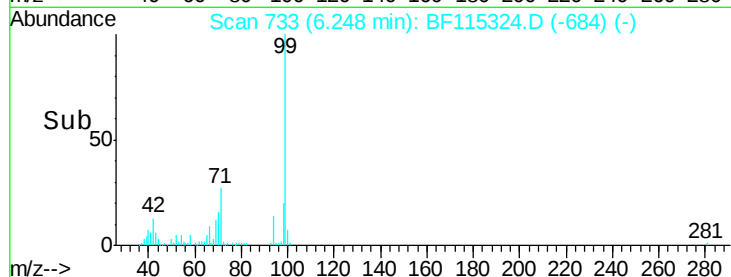
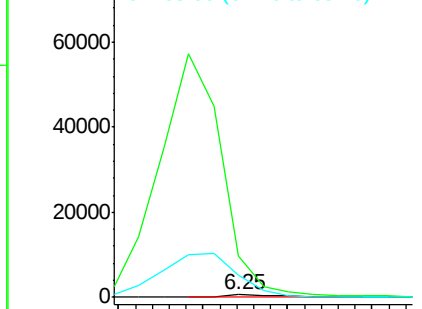
mohammad
7/1/2019 5:59:13 PM



Abundance Ion 93.00 (92.70 to 93.70): BF1

Ion 66.00 (65.70 to 66.70): BF1

Ion 65.00 (64.70 to 65.70): BF1



#7

Phenol-d6

Concen: 92.755 ng

RT: 6.24 min Scan# 731

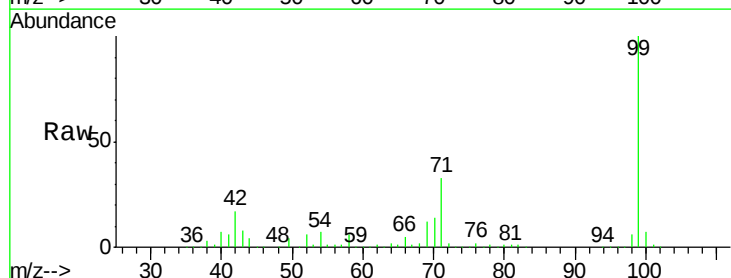
Delta R.T. 0.00 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Tgt Ion: 99 Resp: 1320355

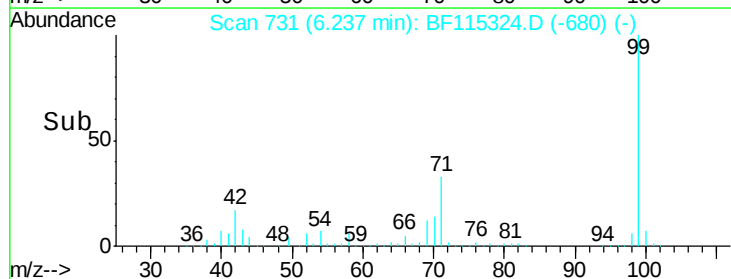
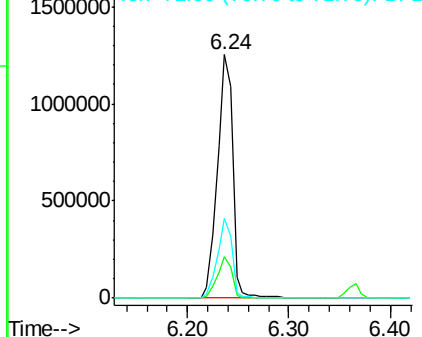
Ion	Ratio	Lower	Upper
99	100		
42	17.2	13.6	20.4
71	32.7	25.5	38.3

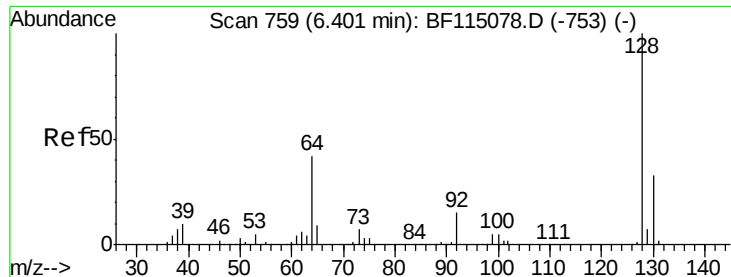


Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1





#8

2-Chlorophenol

Concen: 0.019 ng

RT: 6.38 min Scan# 755

Delta R.T. -0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

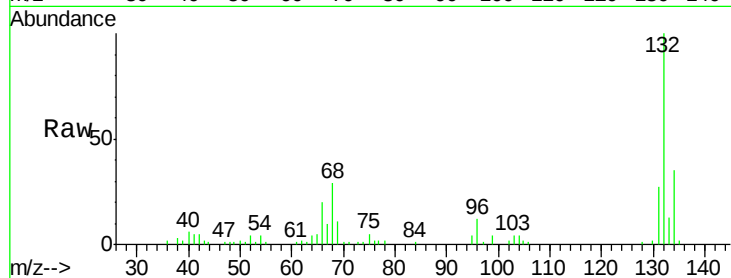
ClientSampleId :

RT-4651

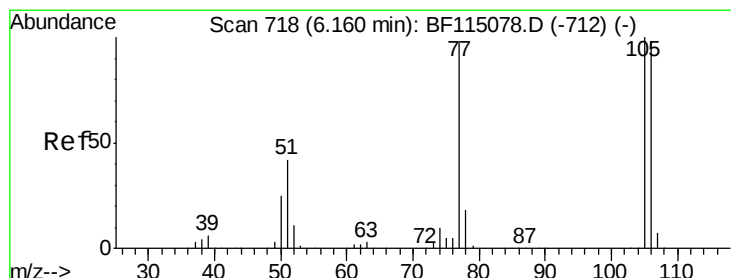
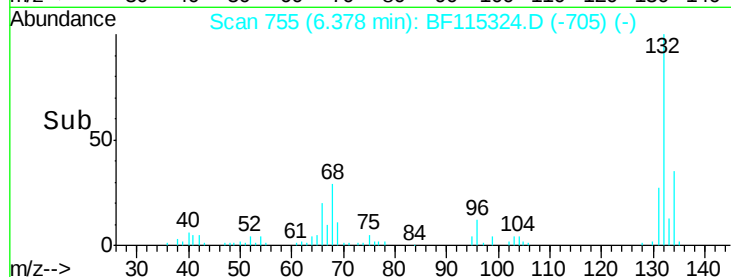
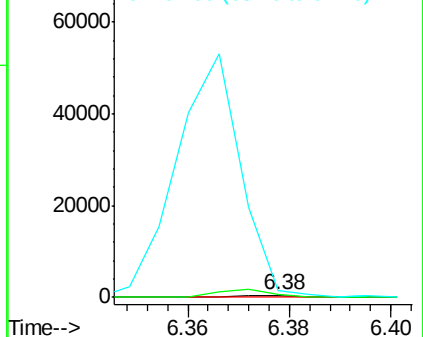
Tgt Ion:	128	Resp:	257
Ion Ratio	Lower	Upper	
128	100		
130	214.4	12.9	52.9#
64	431.5	22.9	62.9#

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM



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: 0.226 ng

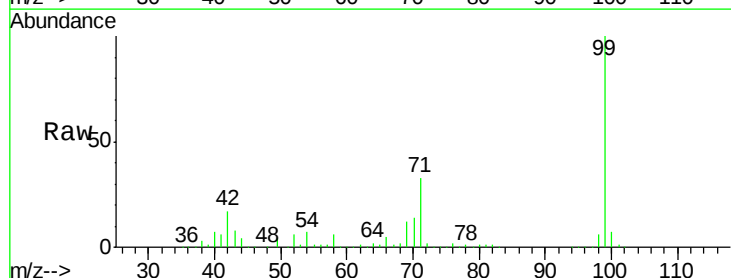
RT: 6.24 min Scan# 731

Delta R.T. 0.09 min

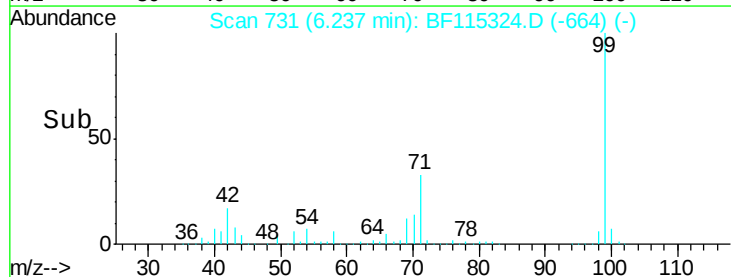
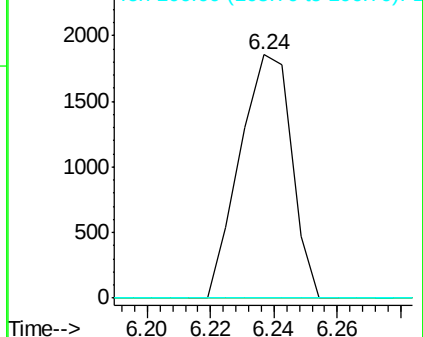
Lab File: BF115324.D

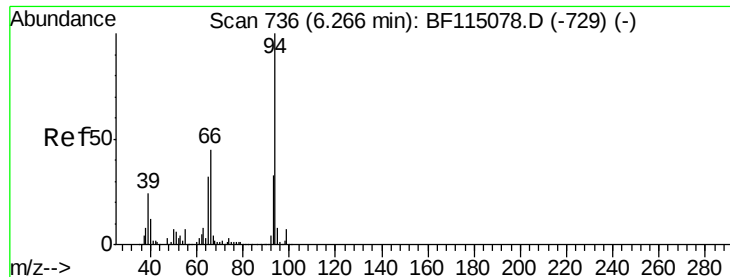
Acq: 29 Jun 2019 15:47

Tgt Ion:	77	Resp:	2099
Ion Ratio	Lower	Upper	
77	100		
105	0.0	81.5	121.5#
106	0.0	79.7	119.7#



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 105.00 (104.70 to 105.70): E
Ion 106.00 (105.70 to 106.70): E





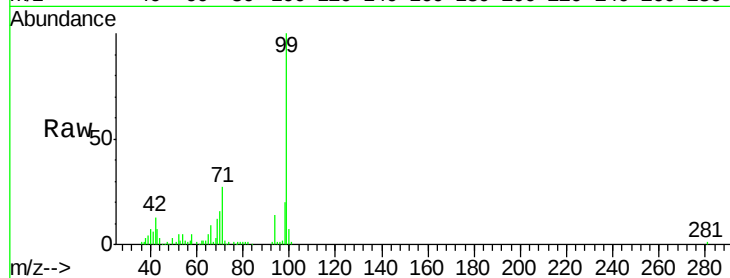
#10
Phenol
Concen: 0.538 ng
RT: 6.25 min Scan# 733
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

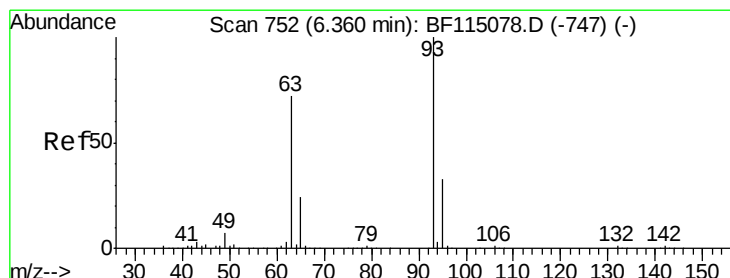
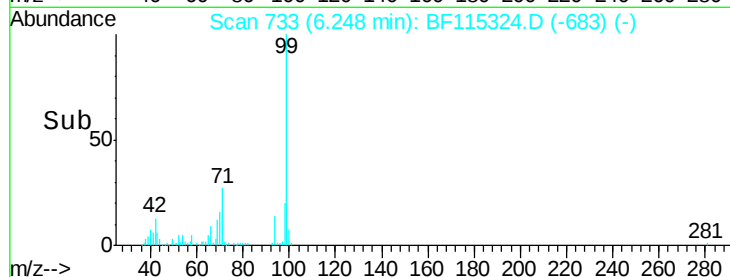
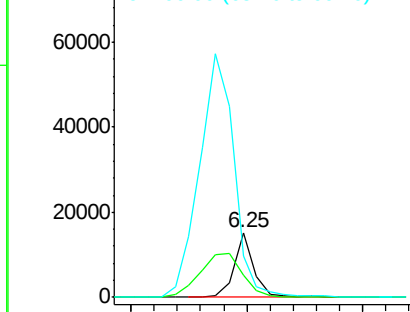
Tgt Ion	Ratio	Resp	Lower	Upper
94	100	8965		
65	34.8		11.9	51.9
66	63.8		25.2	65.2

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM

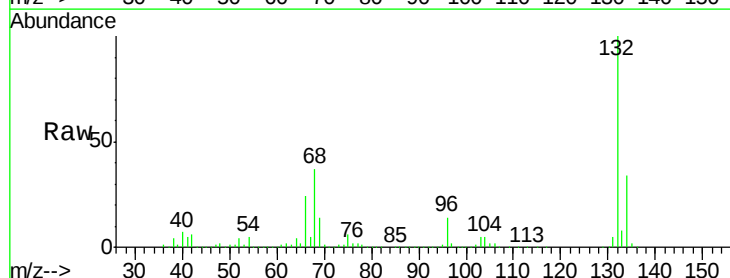


Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1

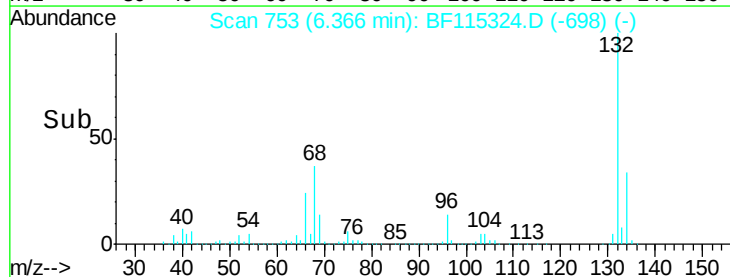
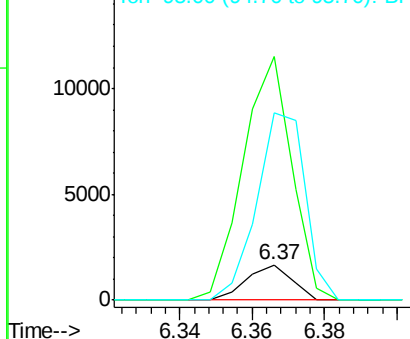


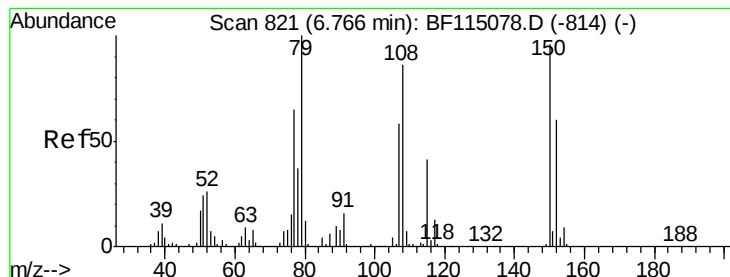
#11
bis(2-Chloroethyl)ether
Concen: 0.119 ng
RT: 6.37 min Scan# 753
Delta R.T. 0.02 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Resp	Lower	Upper
93	100	1459		
63	687.6		51.5	91.5#
95	530.3		13.4	53.4#



Abundance Ion 93.00 (92.70 to 93.70): BF1
Ion 63.00 (62.70 to 63.70): BF1
Ion 95.00 (94.70 to 95.70): BF1





#15

Benzyl Alcohol

Concen: 1.221 ng

RT: 6.75 min Scan# 819

Delta R.T. 0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

ClientSampleId :

RT-4651

Tgt Ion: 79 Resp: 12659

Ion Ratio Lower Upper

79 100

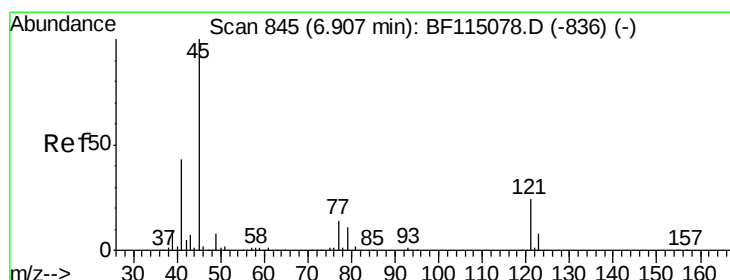
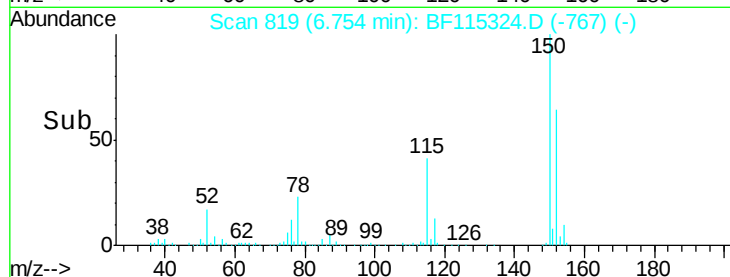
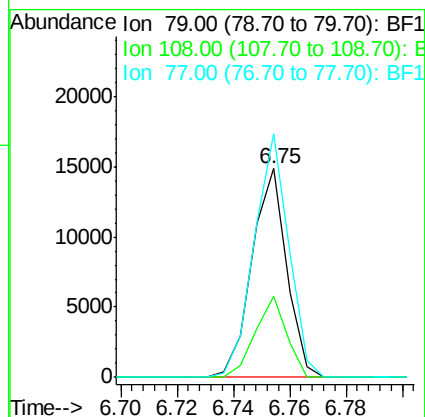
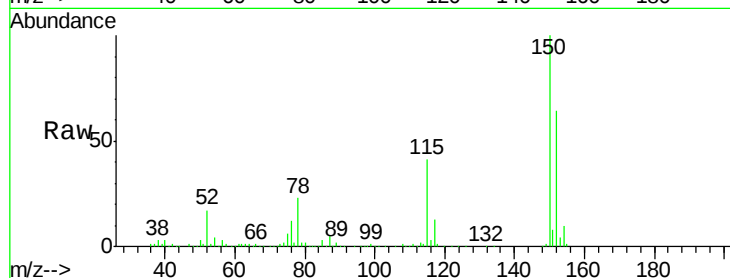
108 38.9 68.7 103.1#

77 116.8 51.7 77.5#

Manual Integrations
APPROVED

mohammad

7/1/2019 5:59:13 PM



#16

2,2'-oxybis(1-Chloropropane)

Concen: 0.016 ng

RT: 7.15 min Scan# 887

Delta R.T. 0.26 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

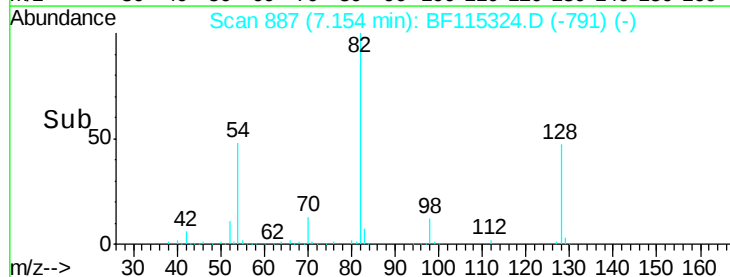
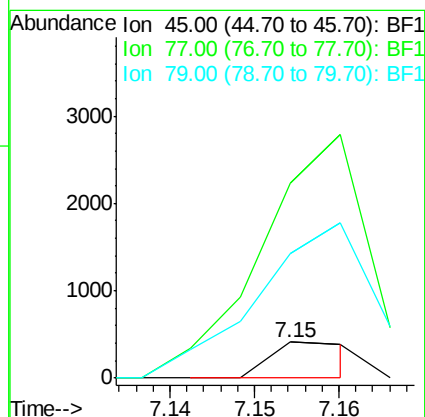
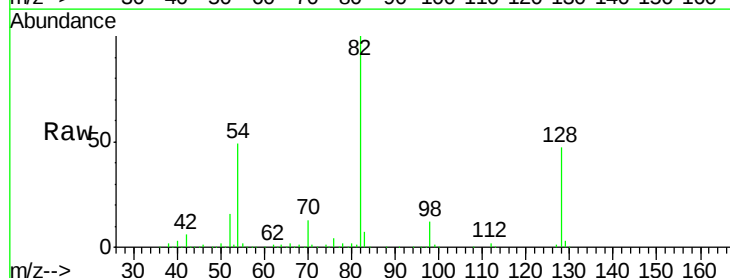
Tgt Ion: 45 Resp: 283

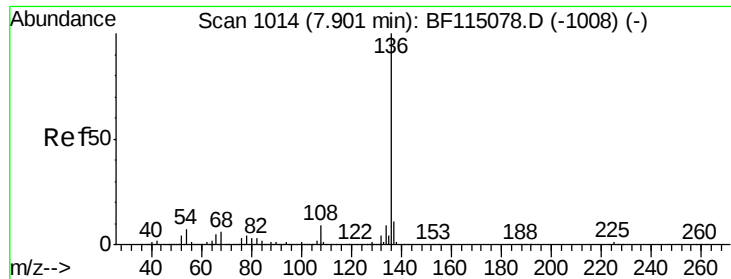
Ion Ratio Lower Upper

45 100

77 537.9 0.0 34.6#

79 344.7 0.0 31.2#





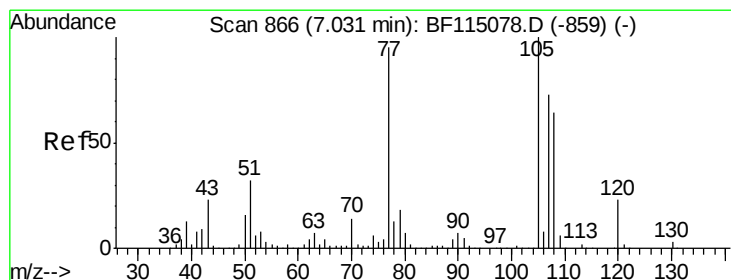
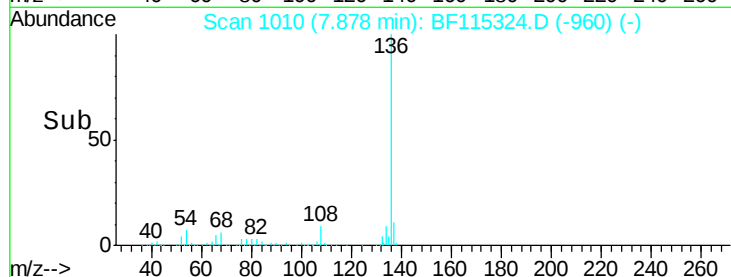
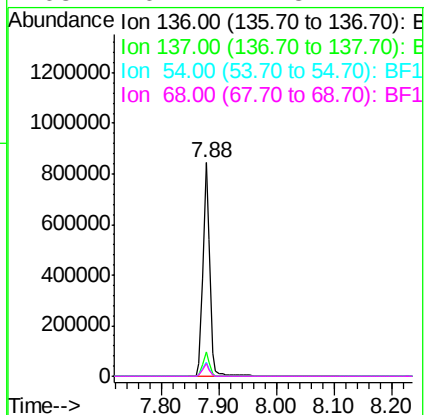
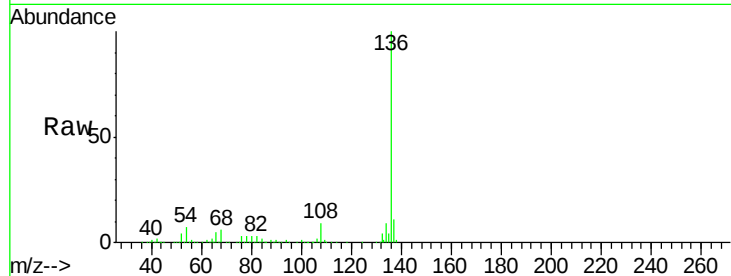
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 7.88 min Scan# 1010
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Resp	Lower	Upper
136	100	712626		
137	11.2	8.9	13.3	
54	6.9	5.6	8.4	
68	6.1	4.8	7.2	

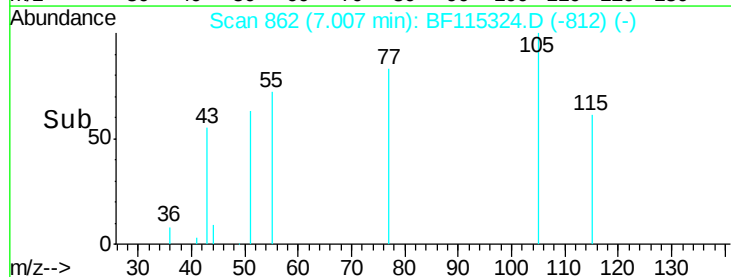
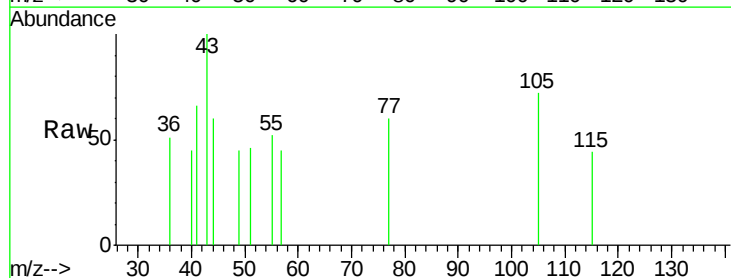
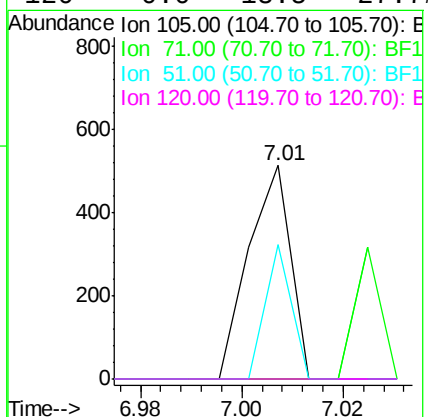
Manual Integrations
APPROVED

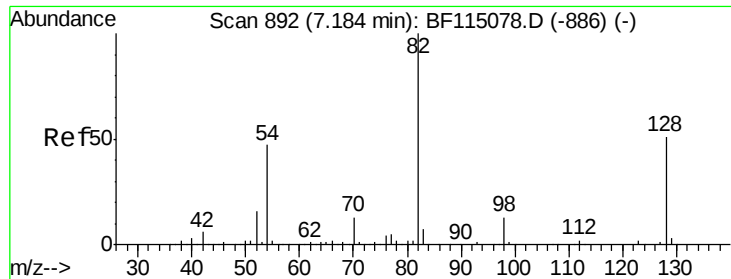
mohammad
7/1/2019 5:59:13 PM



#22
Acetophenone
Concen: 0.018 ng
RT: 7.01 min Scan# 862
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	293		
71	0.0	1.9	2.9#	
51	63.0	25.8	38.8#	
120	0.0	18.5	27.7#	





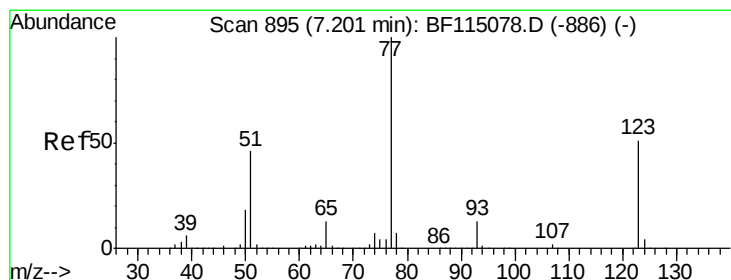
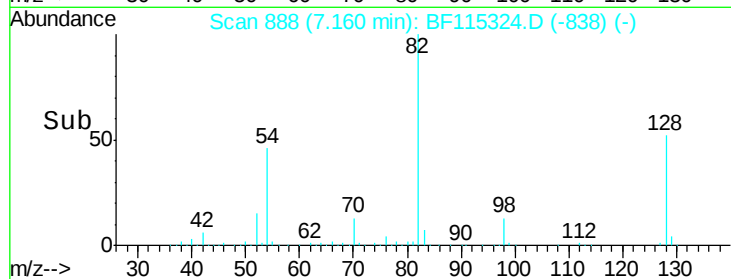
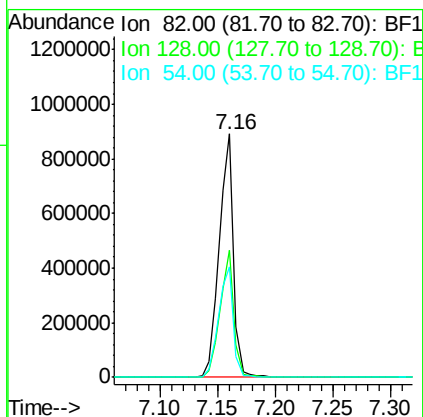
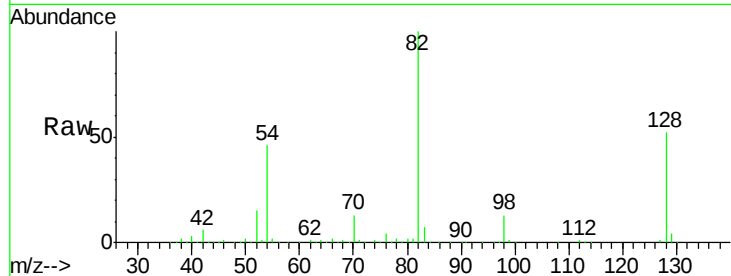
#23
Nitrobenzene-d5
Concen: 66.423 ng
RT: 7.16 min Scan# 888
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Lower	Upper
82	100		
128	52.0	40.4	60.6
54	45.6	37.5	56.3

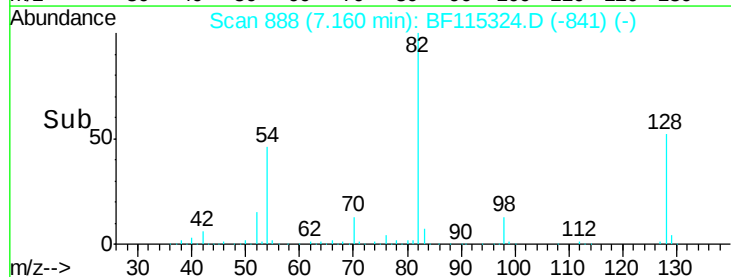
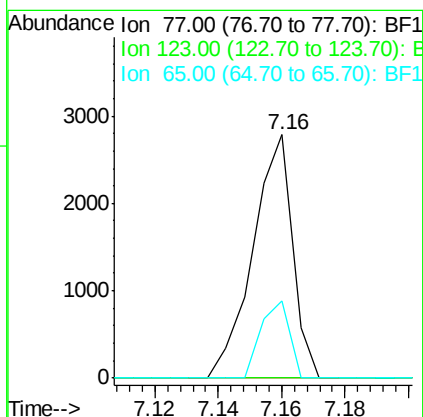
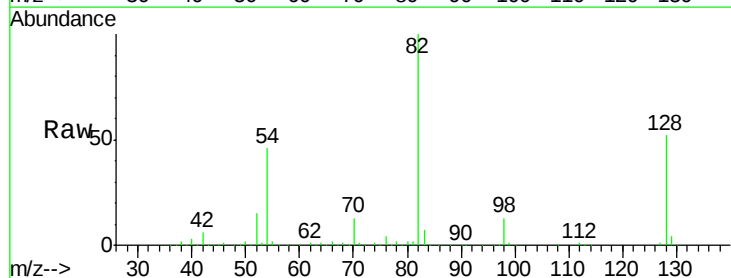
Manual Integrations
APPROVED

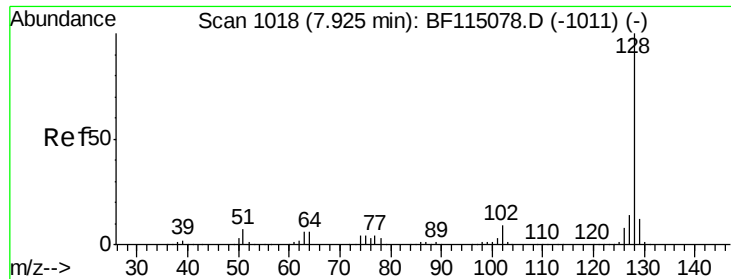
mohammad
7/1/2019 5:59:13 PM



#24
Nitrobenzene
Concen: 0.190 ng
RT: 7.16 min Scan# 888
Delta R.T. -0.02 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
77	100		
123	0.0	41.0	61.6#
65	31.9	10.5	15.7#





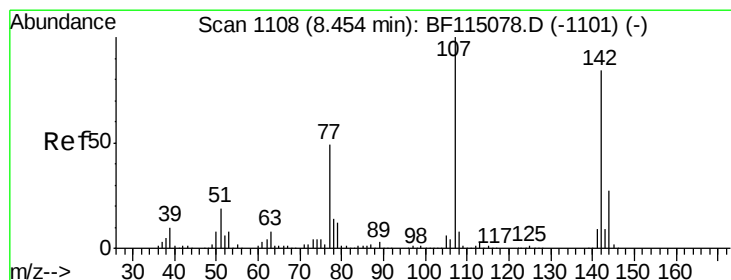
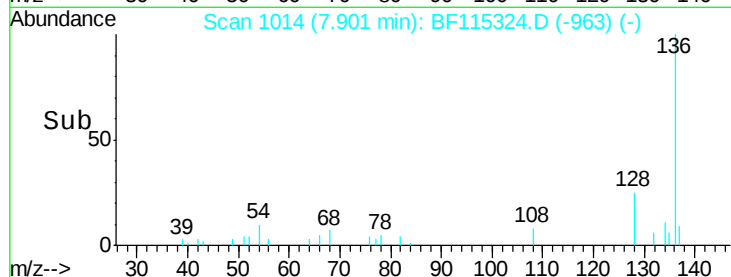
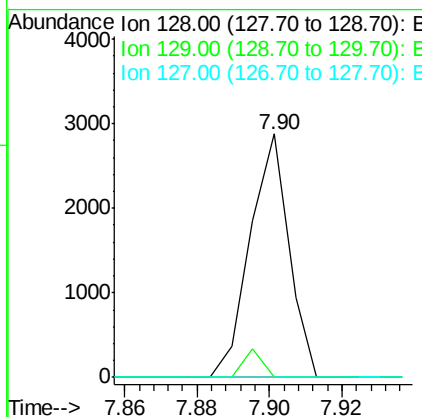
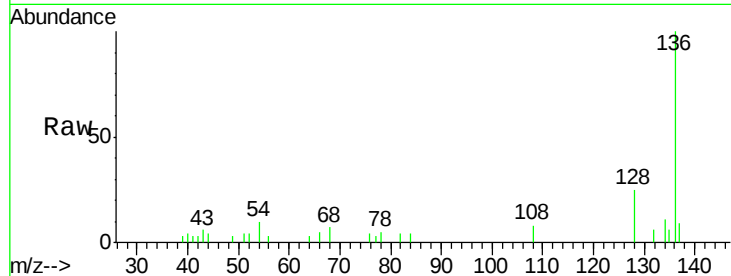
#31
Naphthalene
Concen: 0.061 ng
RT: 7.90 min Scan# 1014
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Lower	Upper
128	100		
129	0.0	9.6	14.4#
127	0.0	11.4	17.0#

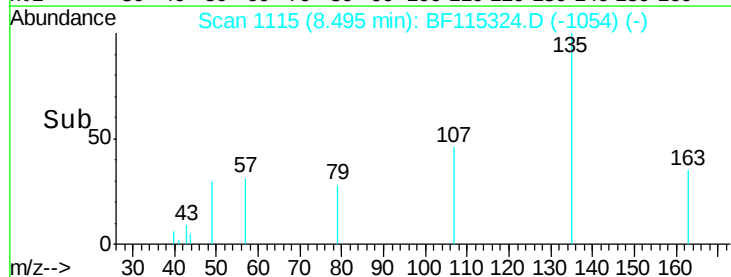
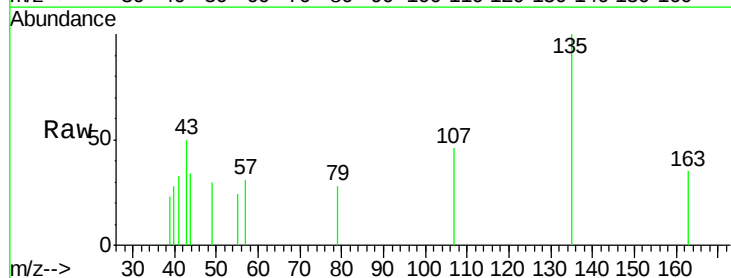
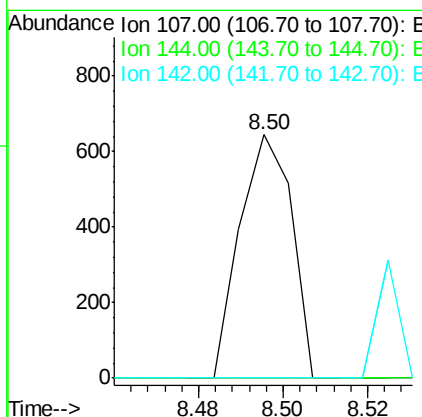
Manual Integrations
APPROVED

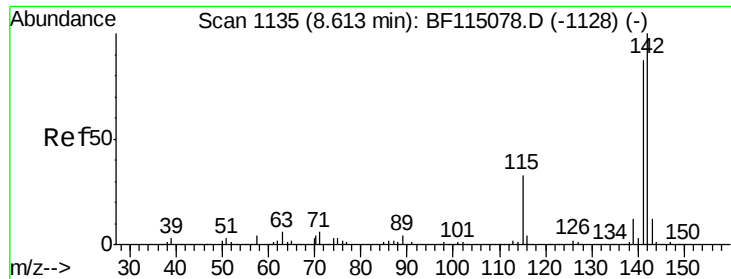
mohammad
7/1/2019 5:59:13 PM



#36
4-Chloro-3-methylphenol
Concen: 0.051 ng
RT: 8.50 min Scan# 1115
Delta R.T. 0.06 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
107	100		
144	0.0	21.7	32.5#
142	0.0	67.0	100.4#





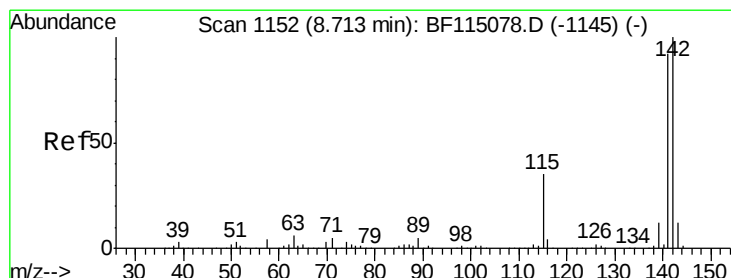
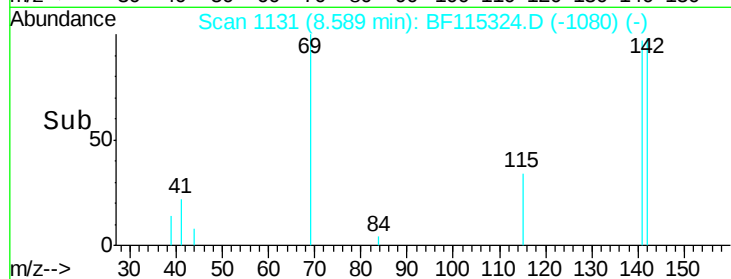
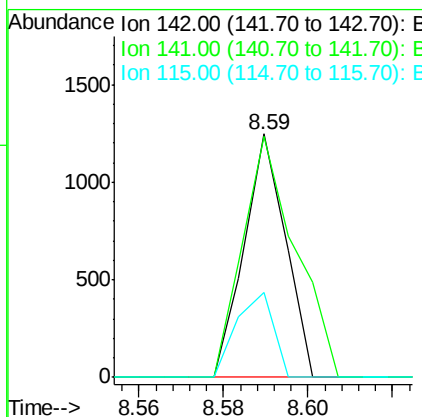
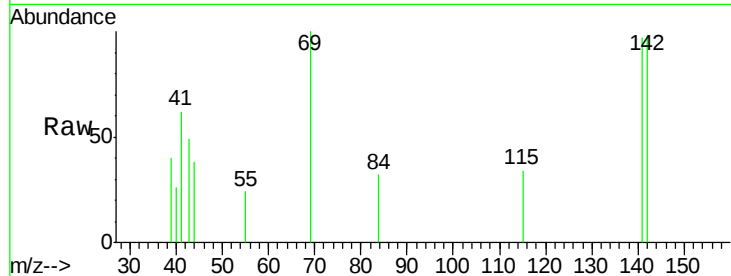
#37
2-Methylnaphthalene
Concen: 0.036 ng
RT: 8.59 min Scan# 1131
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Lower	Upper
142	100		
141	99.0	69.8	104.6
115	35.0	26.7	40.1

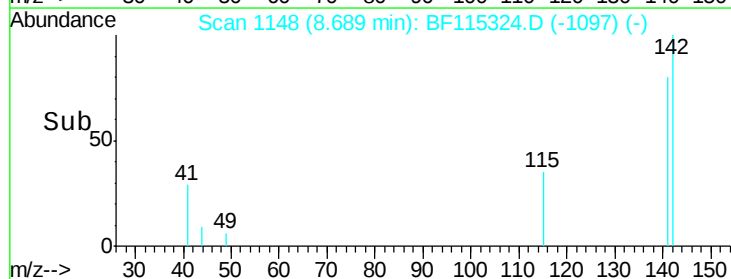
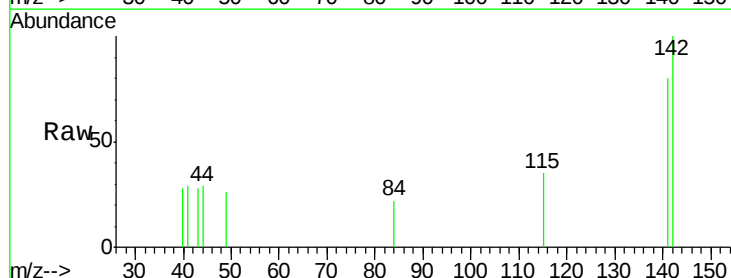
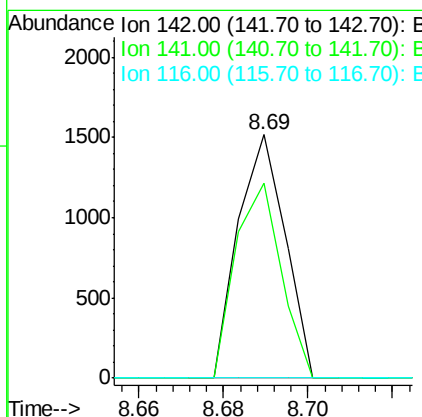
Manual Integrations
APPROVED

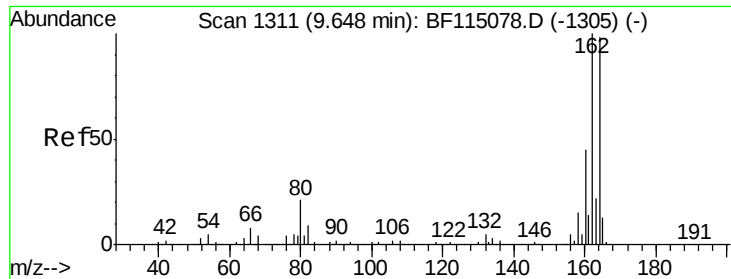
mohammad
7/1/2019 5:59:13 PM



#38
1-Methylnaphthalene
Concen: 0.052 ng
RT: 8.69 min Scan# 1148
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	79.8	73.8	110.8
116	0.0	2.8	4.2#





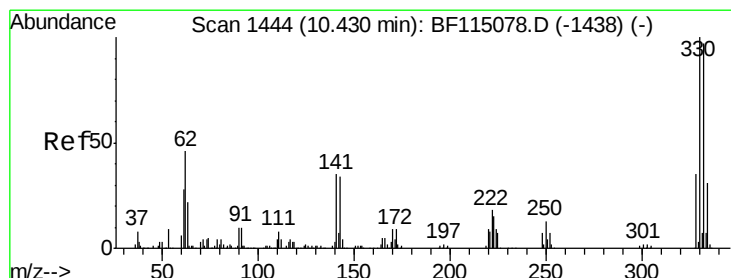
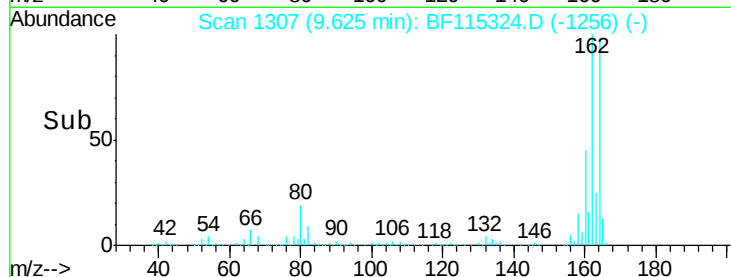
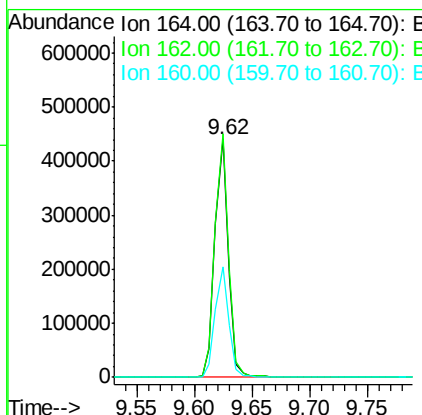
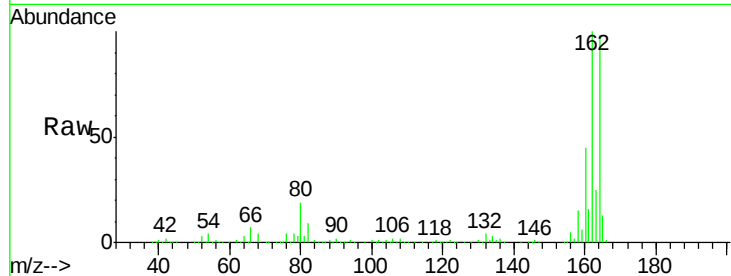
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.62 min Scan# 1307
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Resp	Lower	Upper
164	100			
162	102.3	358406	81.7	122.5
160	46.3		37.0	55.4

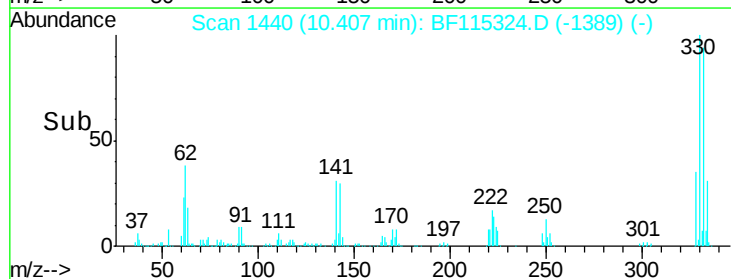
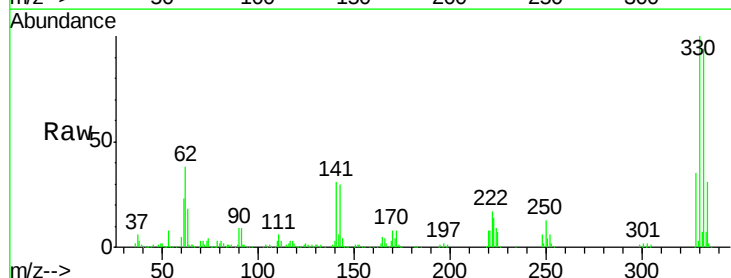
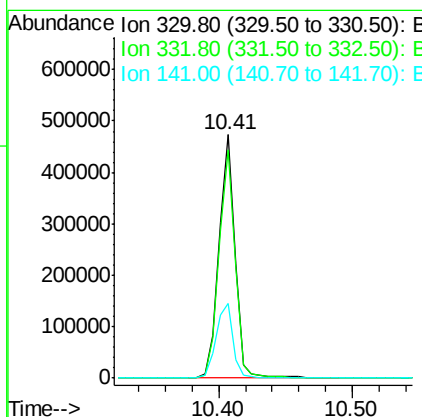
Manual Integrations
APPROVED

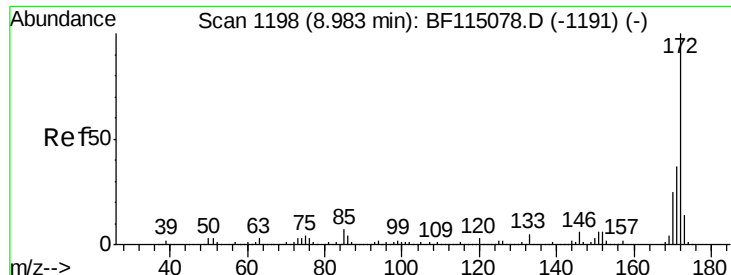
mohammad
7/1/2019 5:59:13 PM



#42
2,4,6-Tribromophenol
Concen: 107.442 ng
RT: 10.41 min Scan# 1440
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Resp	Lower	Upper
330	100	406081		
332	95.2		77.3	115.9
141	32.7		28.2	42.2





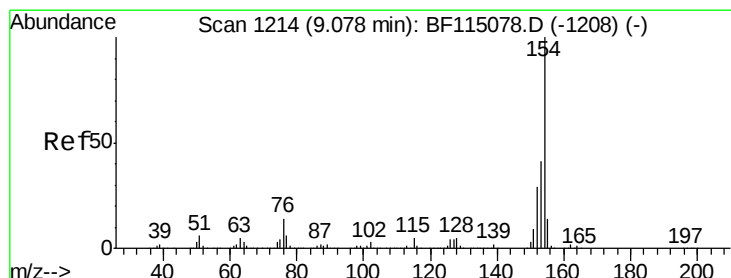
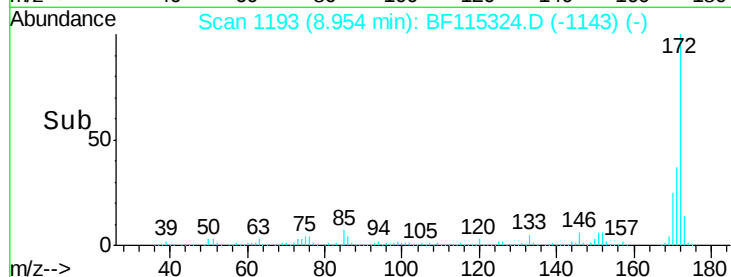
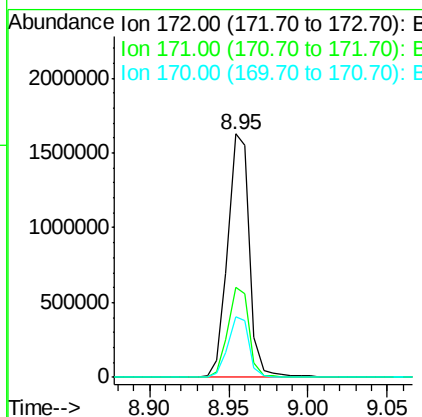
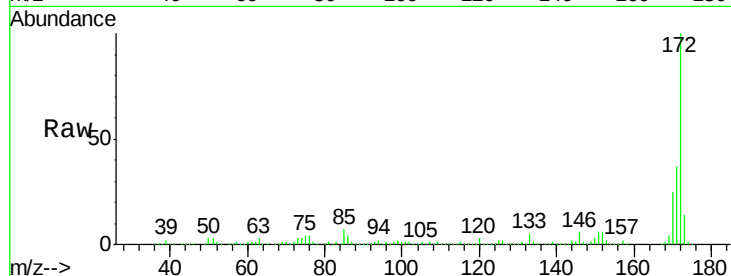
#45
 2-Fluorobiphenyl
 Concen: 73.623 ng
 RT: 8.95 min Scan# 1193
 Delta R.T. -0.01 min
 Lab File: BF115324.D
 Acq: 29 Jun 2019 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RT-4651

Tgt Ion:172 Resp: 1553424
 Ion Ratio Lower Upper
 172 100
 171 36.8 29.8 44.6
 170 24.7 20.3 30.5

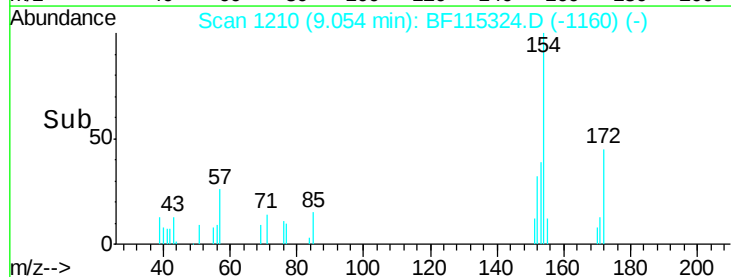
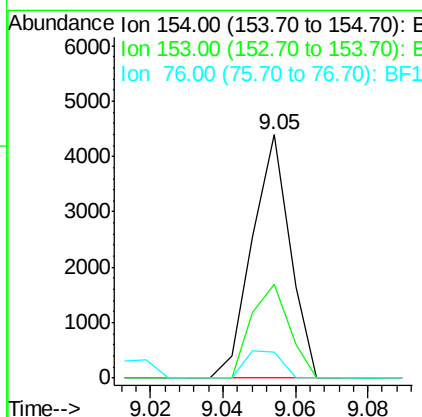
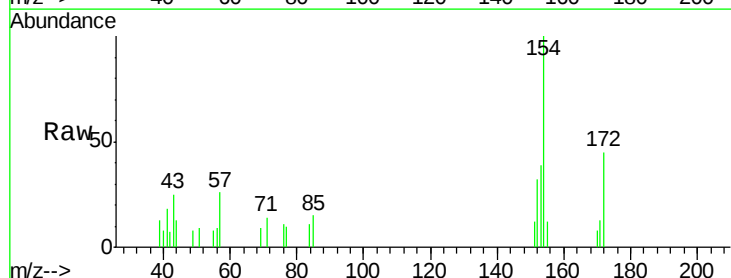
Manual Integrations
 APPROVED

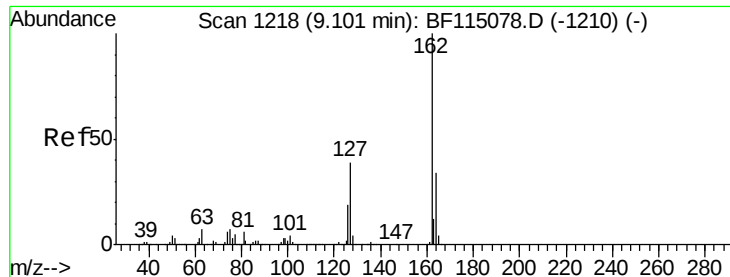
mohammad
 7/1/2019 5:59:13 PM



#46
 1,1'-Biphenyl
 Concen: 0.111 ng
 RT: 9.05 min Scan# 1210
 Delta R.T. -0.01 min
 Lab File: BF115324.D
 Acq: 29 Jun 2019 15:47

Tgt Ion:154 Resp: 3169
 Ion Ratio Lower Upper
 154 100
 153 38.6 20.9 60.9
 76 10.5 0.0 34.1





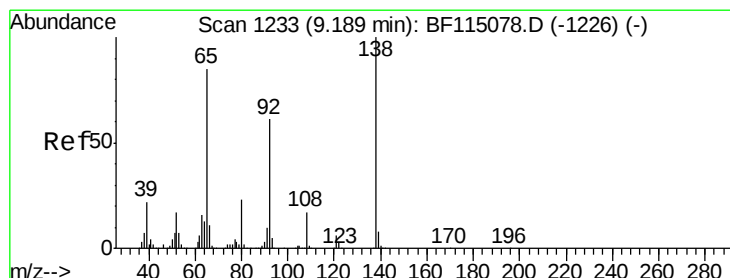
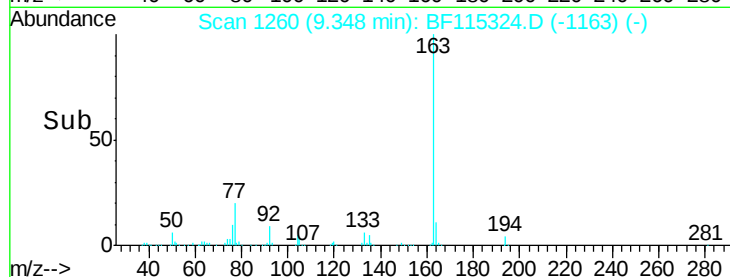
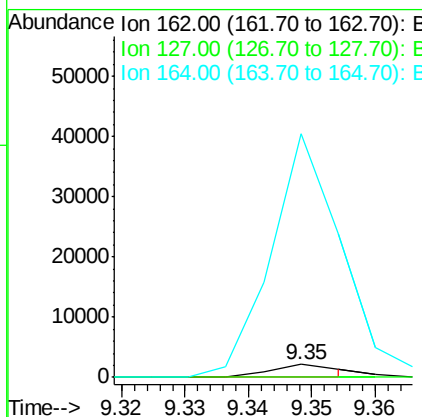
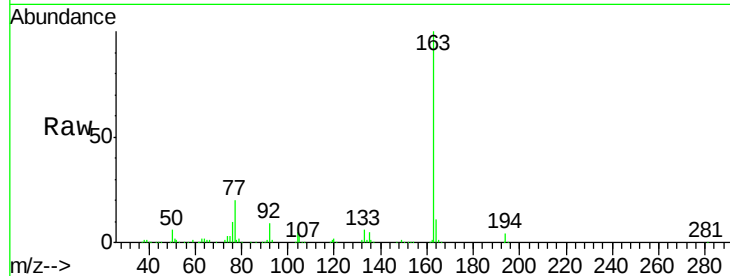
#47
2-Chloronaphthalene
Concen: 0.068 ng
RT: 9.35 min Scan# 1260
Delta R.T. 0.27 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampled :
RT-4651

Tgt Ion: 162 Resp: 1590
Ion Ratio Lower Upper
162 100
127 0.0 30.8 46.2#
164 1873.6 27.0 40.4#

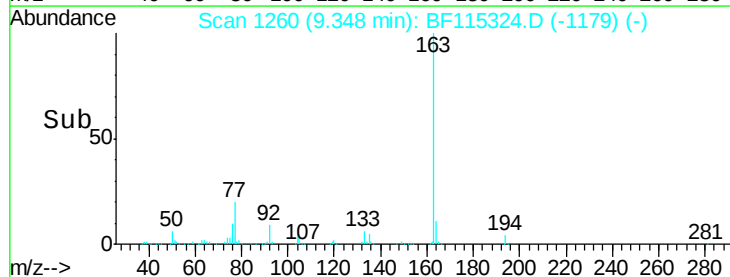
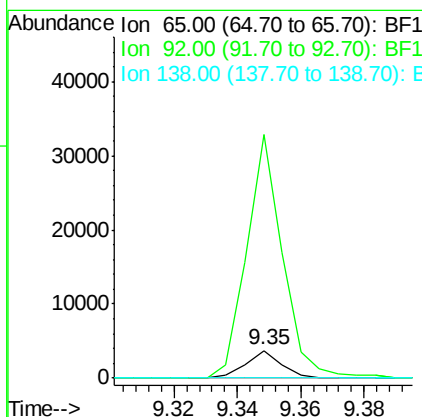
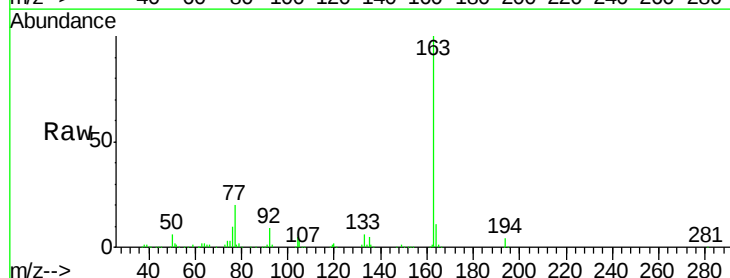
Manual Integrations
APPROVED

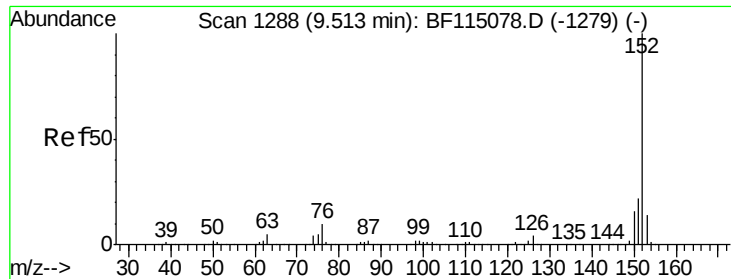
mohammad
7/1/2019 5:59:13 PM



#48
2-Nitroaniline
Concen: 0.414 ng
RT: 9.35 min Scan# 1260
Delta R.T. 0.18 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion: 65 Resp: 2809
Ion Ratio Lower Upper
65 100
92 889.9 57.4 86.2#
138 0.0 94.1 141.1#





#49

Acenaphthylene

Concen: 0.463 ng

RT: 9.48 min Scan# 1283

Delta R.T. -0.01 min

Lab File: BF115324.D

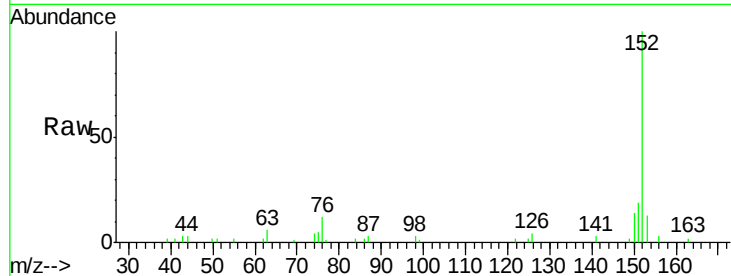
Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

ClientSampleId :

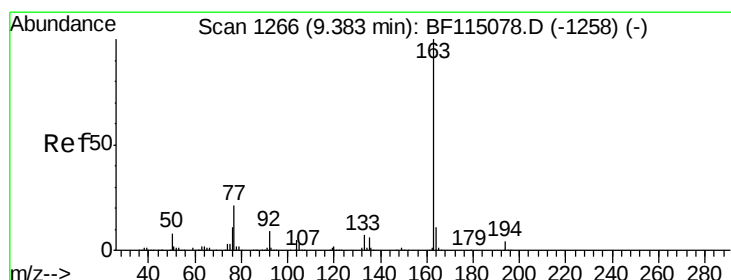
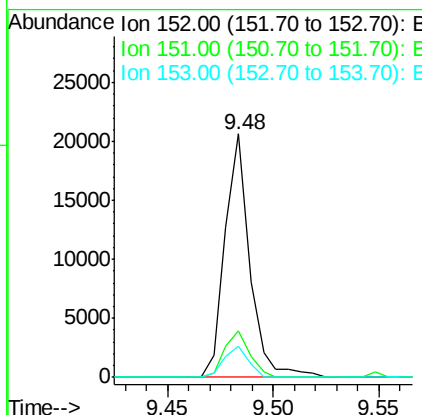
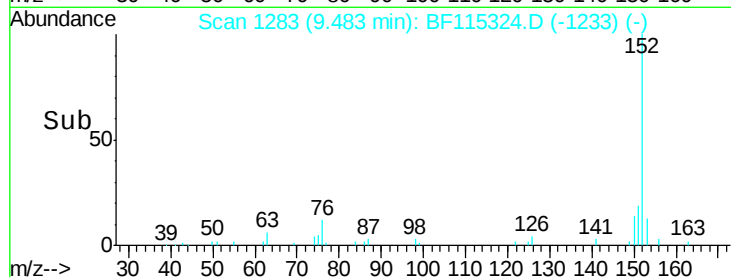
RT-4651



Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.0	17.2	25.8
153	12.6	11.0	16.6

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM



#50

Dimethylphthalate

Concen: 11.889 ng

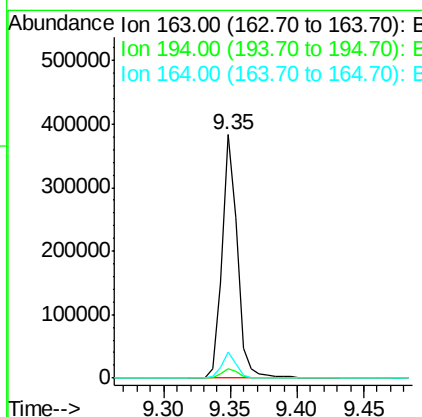
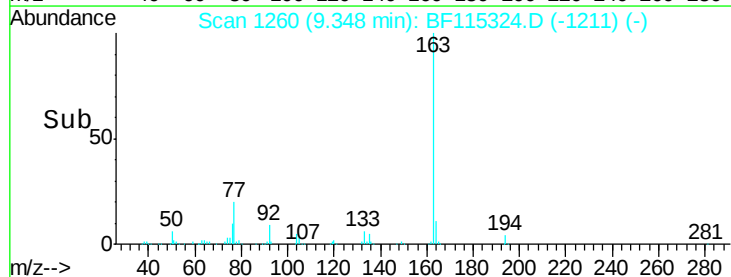
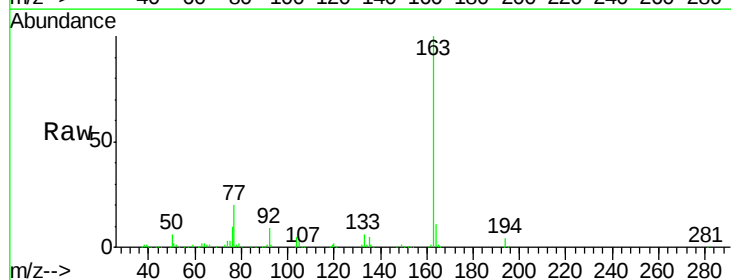
RT: 9.35 min Scan# 1260

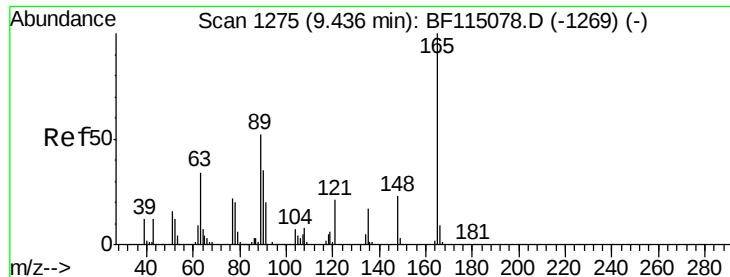
Delta R.T. -0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.2	4.8
164	10.5	8.6	13.0





#51

2,6-Dinitrotoluene

Concen: 0.570 ng

RT: 9.35 min Scan# 1260

Delta R.T. -0.06 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

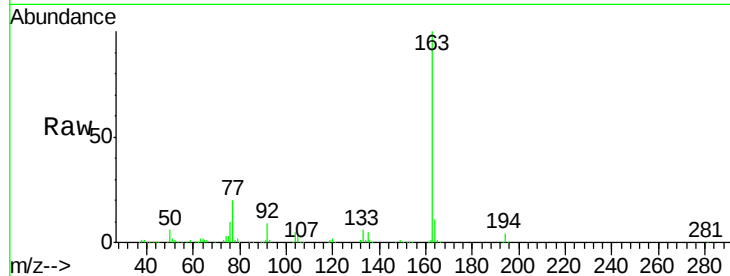
ClientSampleId :

RT-4651

Tgt Ion:	165	Resp:	3473
Ion Ratio	Lower	Upper	
165	100		
63	126.3	39.4	59.2#
89	11.4	42.0	63.0#

Manual Integrations
APPROVED

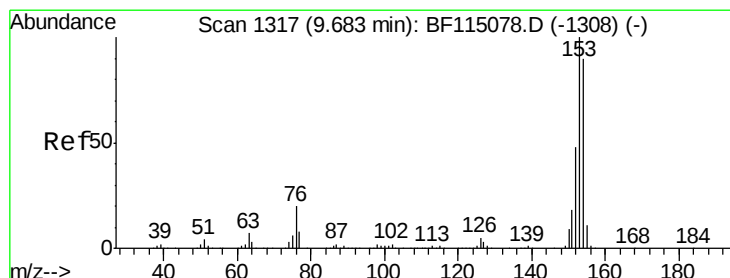
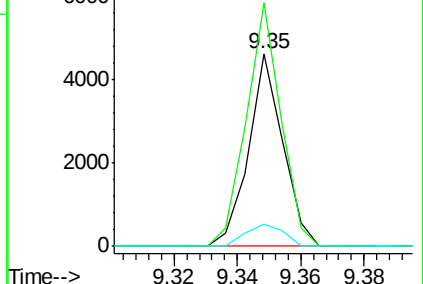
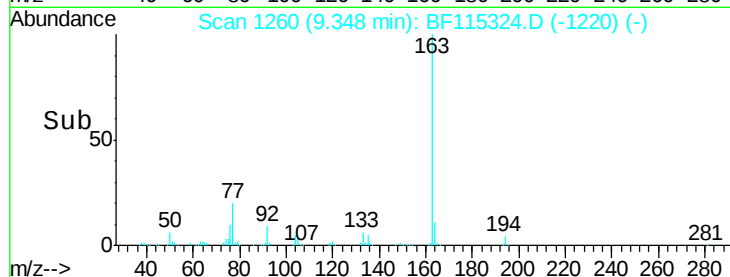
mohammad
7/1/2019 5:59:13 PM



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



#52

Acenaphthene

Concen: 0.067 ng

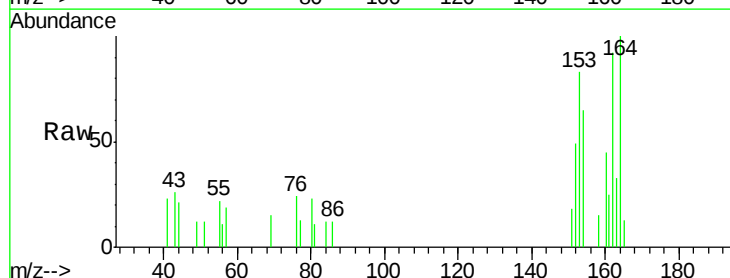
RT: 9.65 min Scan# 1312

Delta R.T. -0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

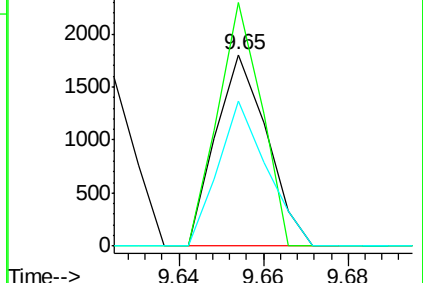
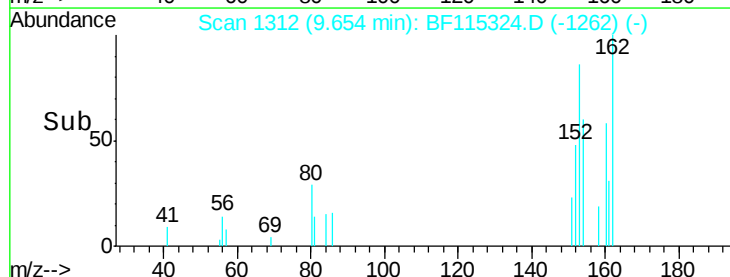
Tgt Ion:	154	Resp:	1519
Ion Ratio	Lower	Upper	
154	100		
153	127.1	88.7	133.1
152	75.6	42.6	64.0#

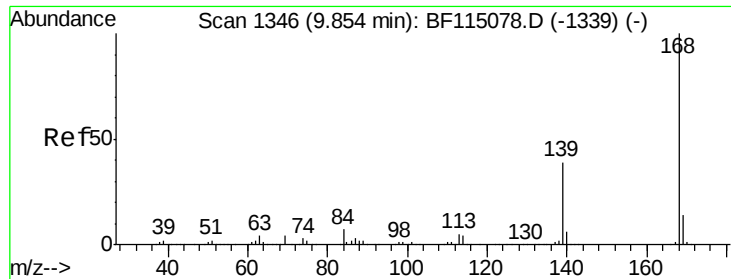


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





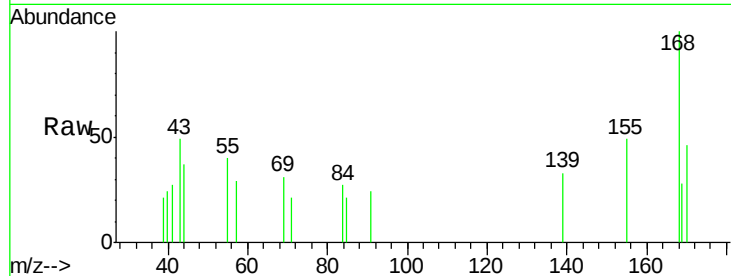
#55
Dibenzofuran
Concen: 0.038 ng
RT: 9.82 min Scan# 1341
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

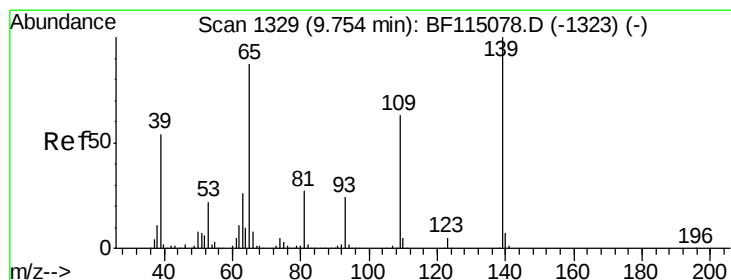
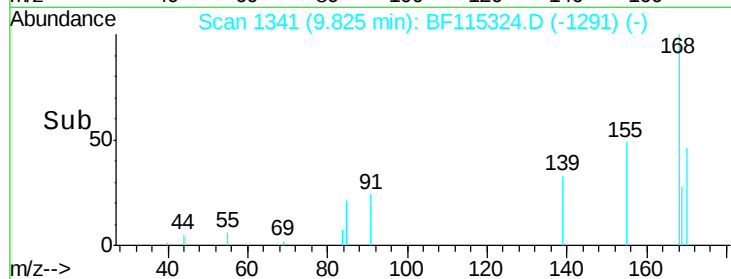
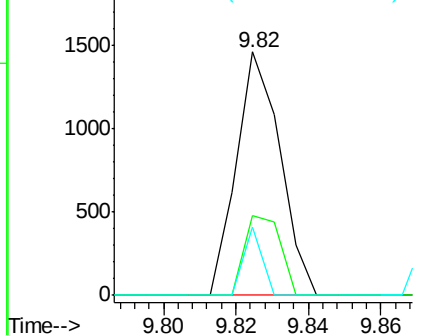
Tgt Ion	Ratio	Lower	Upper
168	100		
139	32.7	31.1	46.7
169	27.8	11.3	16.9

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM



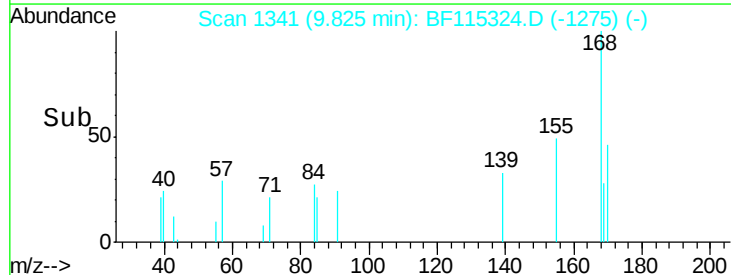
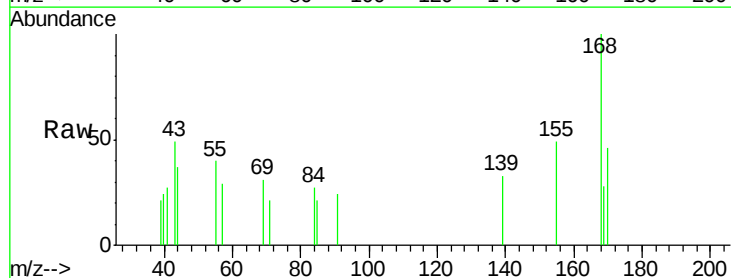
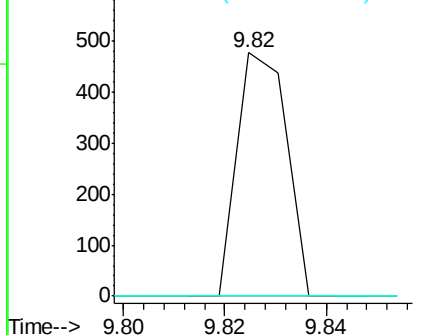
Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

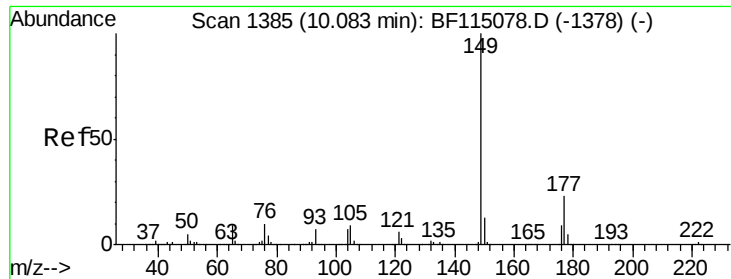


#56
4-Nitrophenol
Concen: 0.054 ng
RT: 9.82 min Scan# 1341
Delta R.T. 0.09 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.0	43.0	83.0
65	0.0	67.0	107.0

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





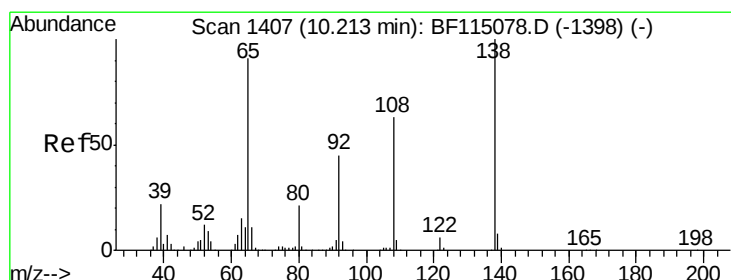
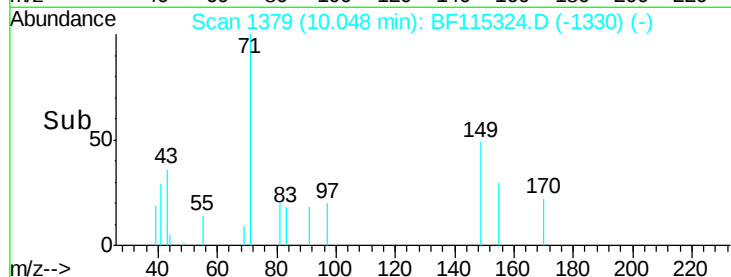
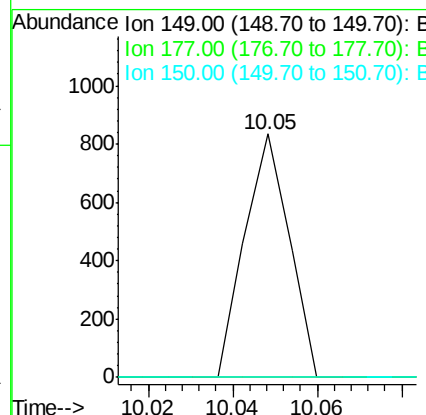
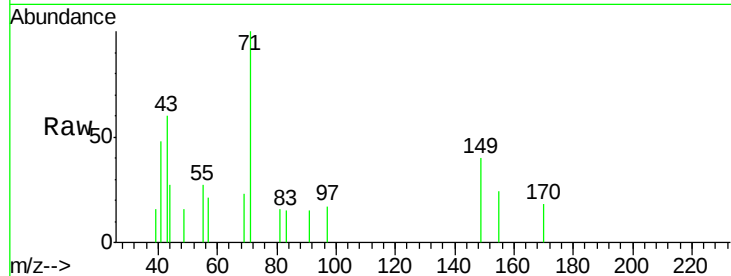
#60
Diethylphthalate
Concen: 0.023 ng
RT: 10.05 min Scan# 1379
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Lower	Upper
149	100		
177	0.0	18.7	28.1#
150	0.0	10.4	15.6#

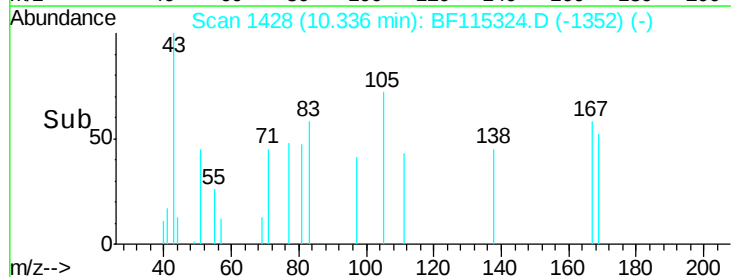
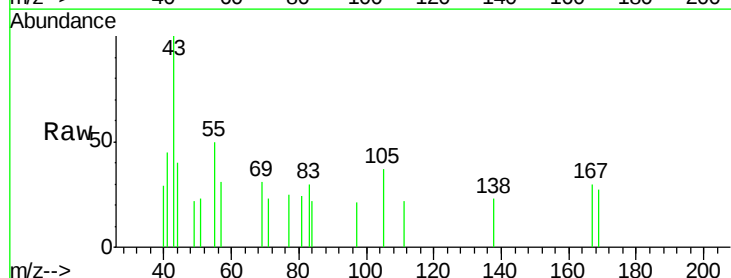
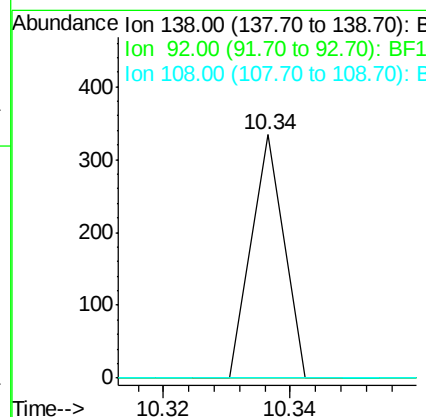
Manual Integrations
APPROVED

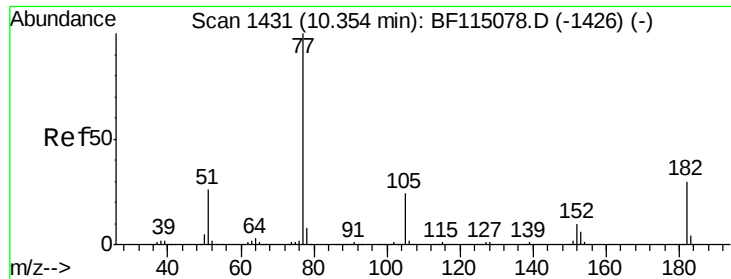
mohammad
7/1/2019 5:59:13 PM



#62
4-Nitroaniline
Concen: 0.016 ng
RT: 10.34 min Scan# 1428
Delta R.T. 0.15 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
138	100		
92	0.0	24.8	64.8#
108	0.0	43.3	83.3#





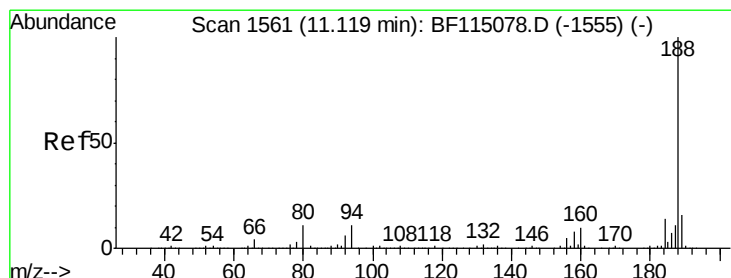
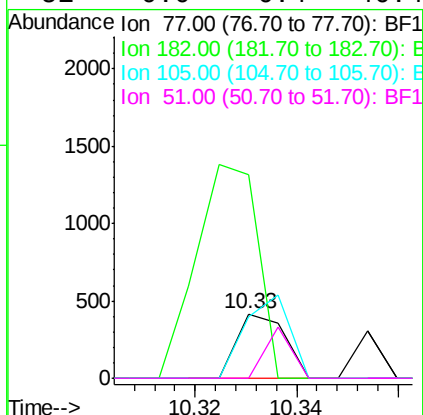
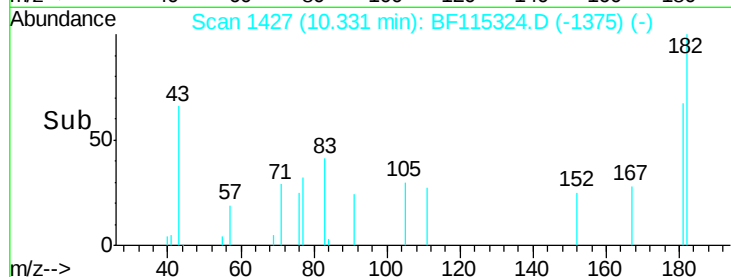
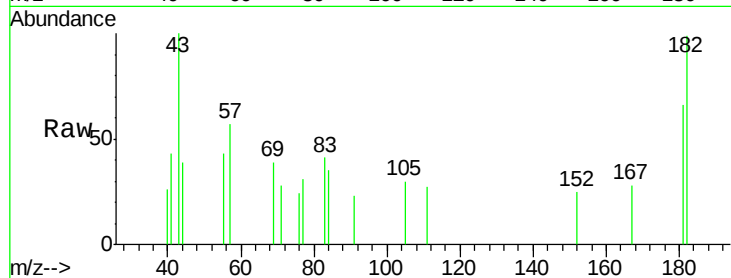
#63
Azobenzene
Concen: 0.011 ng
RT: 10.33 min Scan# 1427
Delta R.T. 0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampled :
RT-4651

Tgt Ion	Ratio	Lower	Upper
77	100		
182	317.1	10.1	50.1#
105	94.7	4.5	44.5#
51	0.0	6.4	46.4#

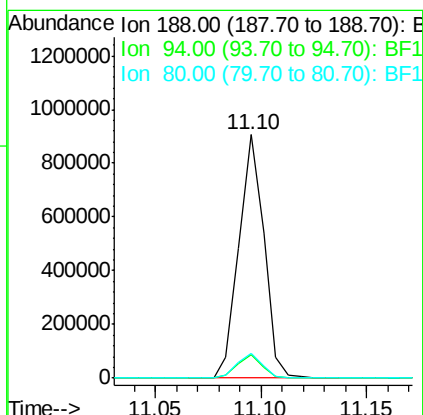
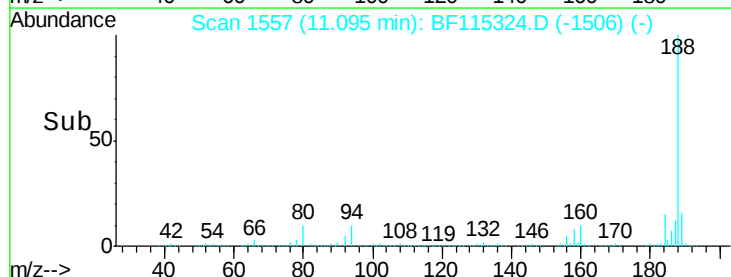
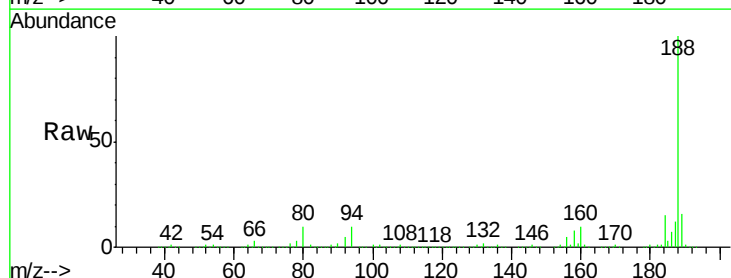
Manual Integrations
APPROVED

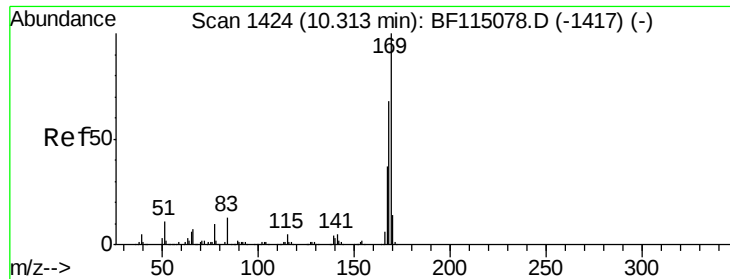
mohammad
7/1/2019 5:59:13 PM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.10 min Scan# 1557
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

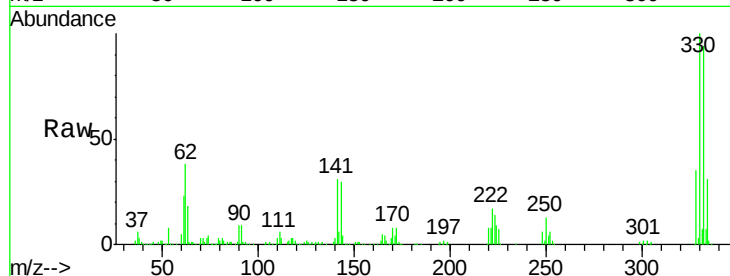
Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.6	12.8
80	10.2	8.8	13.2





#66
n-Nitrosodiphenylamine
Concen: 0.537 ng
RT: 10.41 min Scan# 1440
Delta R.T. 0.12 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

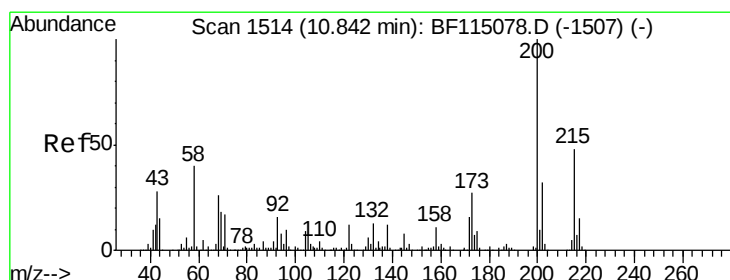
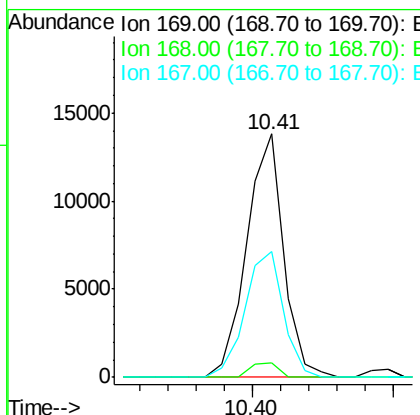
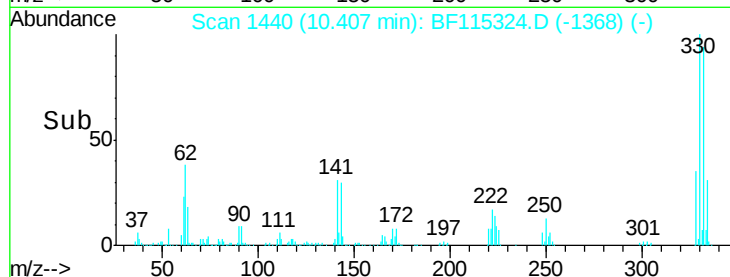
Instrument :
BNA_F
ClientSampleId :
RT-4651



Tgt Ion	Ratio	Resp	Lower	Upper
169	100	12486		
168	5.8	54.2	81.4#	
167	51.7	29.4	44.0#	

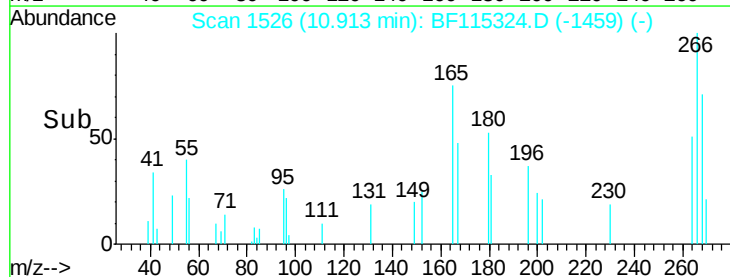
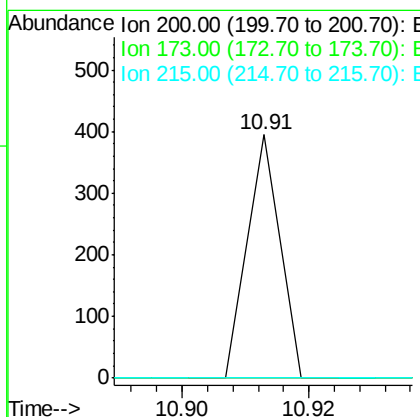
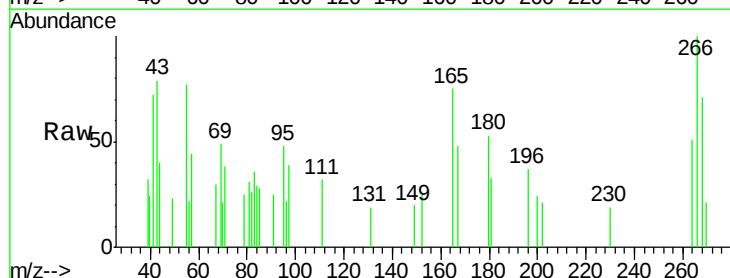
Manual Integrations
APPROVED

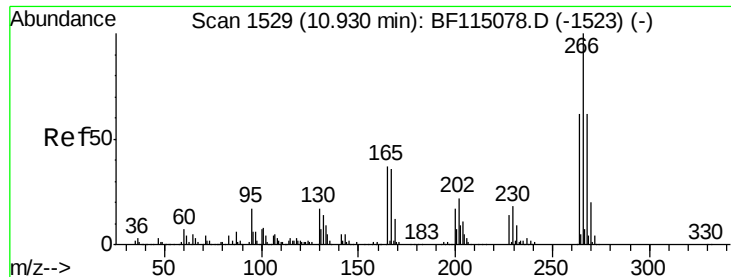
mohammad
7/1/2019 5:59:13 PM



#69
Atrazine
Concen: 0.019 ng
RT: 10.91 min Scan# 1526
Delta R.T. 0.09 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Resp	Lower	Upper
200	100	139		
173	0.0	7.4	47.4#	
215	0.0	27.8	67.8#	





#70

Pentachlorophenol

Concen: 0.360 ng

RT: 10.91 min Scan# 1525

Delta R.T. 0.00 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

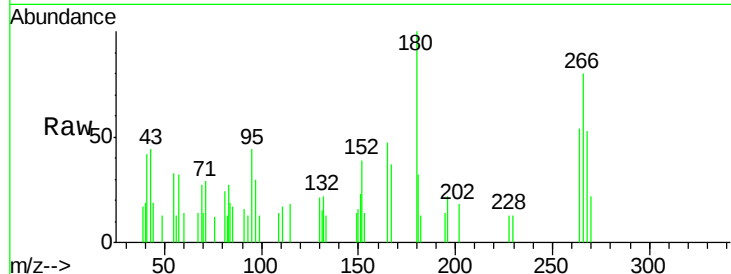
ClientSampled :

RT-4651

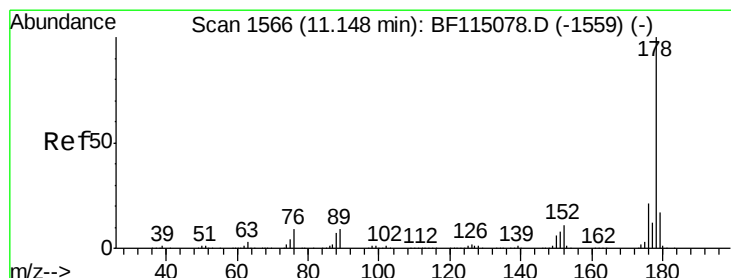
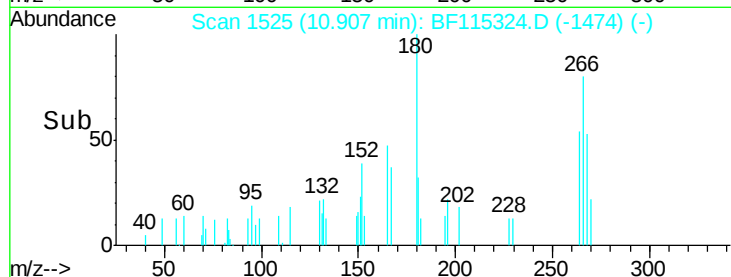
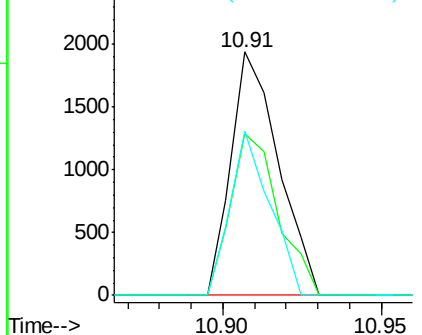
Tgt Ion:	266	Resp:	2013
Ion Ratio	Lower	Upper	
266	100		
268	66.3	49.5	74.3
264	67.7	49.3	73.9

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM



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



#71

Phenanthrene

Concen: 1.860 ng

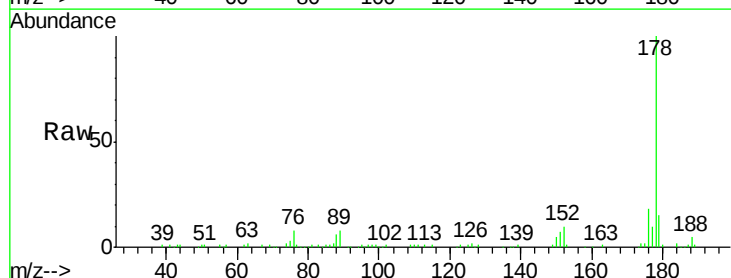
RT: 11.12 min Scan# 1561

Delta R.T. -0.01 min

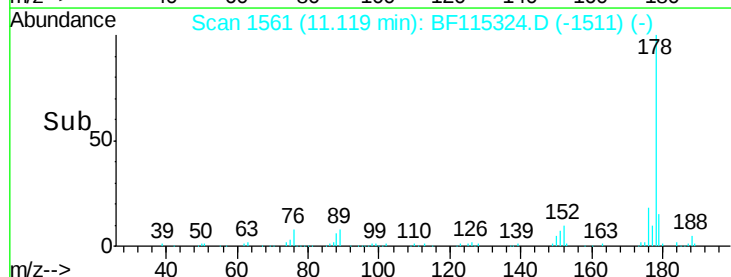
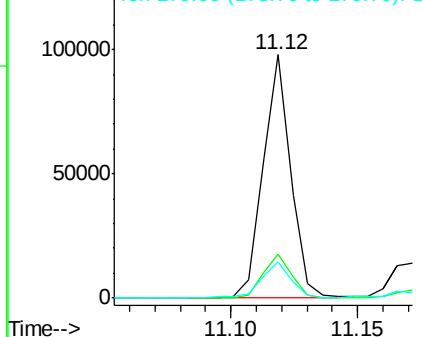
Lab File: BF115324.D

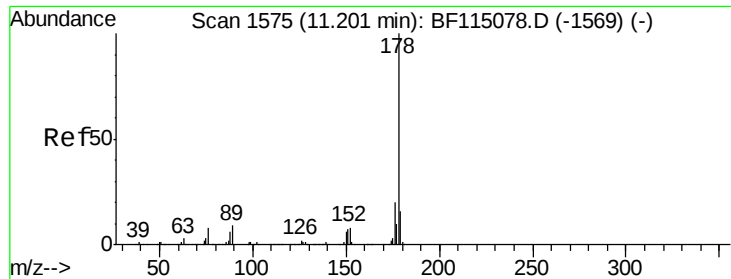
Acq: 29 Jun 2019 15:47

Tgt Ion:	178	Resp:	74724
Ion Ratio	Lower	Upper	
178	100		
176	18.1	16.9	25.3
179	14.7	13.2	19.8



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 0.309 ng

RT: 11.17 min Scan# 1570

Delta R.T. 0.00 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

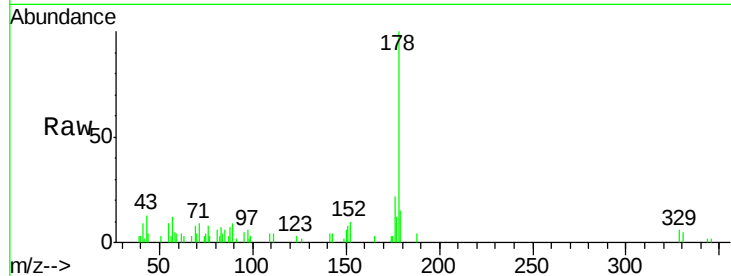
ClientSampleId :

RT-4651

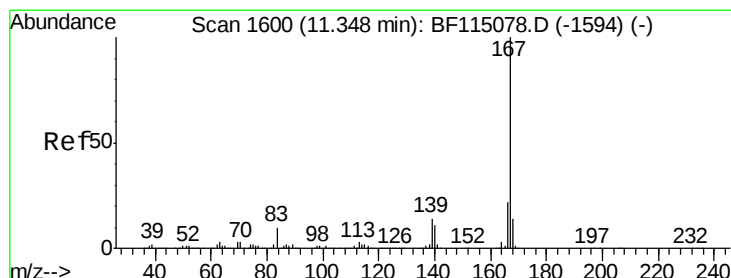
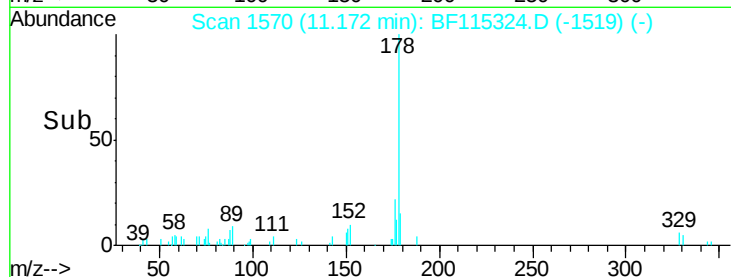
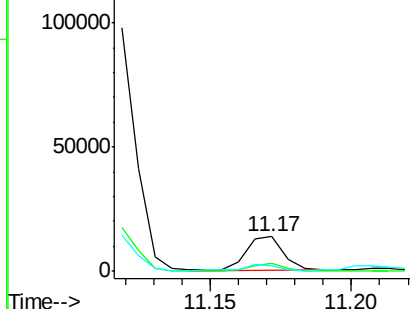
Tgt Ion:	178	Resp:	12531
Ion Ratio	Lower	Upper	
178	100		
176	22.4	16.1	24.1
179	15.3	12.9	19.3

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 0.208 ng

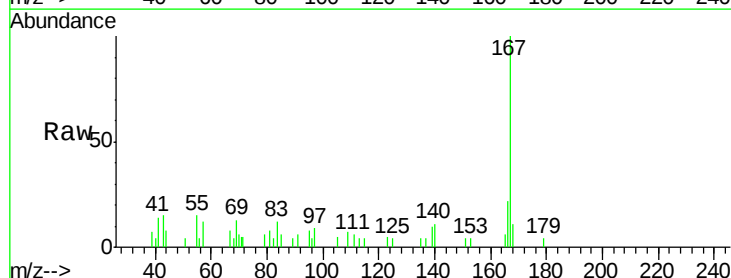
RT: 11.32 min Scan# 1596

Delta R.T. 0.00 min

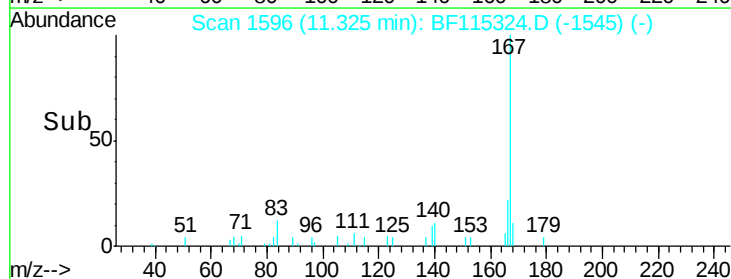
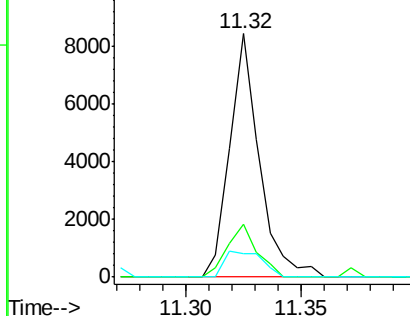
Lab File: BF115324.D

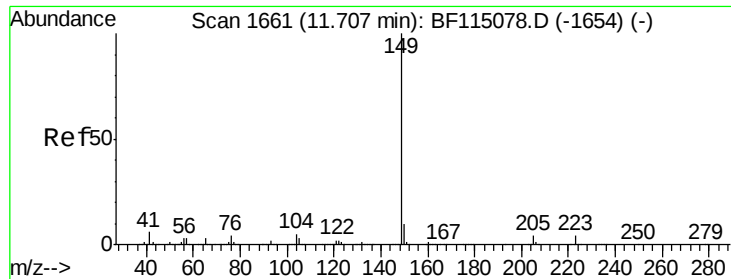
Acq: 29 Jun 2019 15:47

Tgt Ion:	167	Resp:	7540
Ion Ratio	Lower	Upper	
167	100		
166	21.6	18.0	27.0
139	9.9	11.1	16.7#



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E





#74

Di-n-butylphthalate

Concen: 0.105 ng

RT: 11.67 min Scan# 1655

Delta R.T. -0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

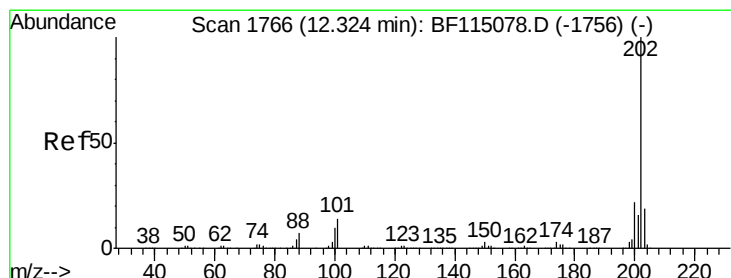
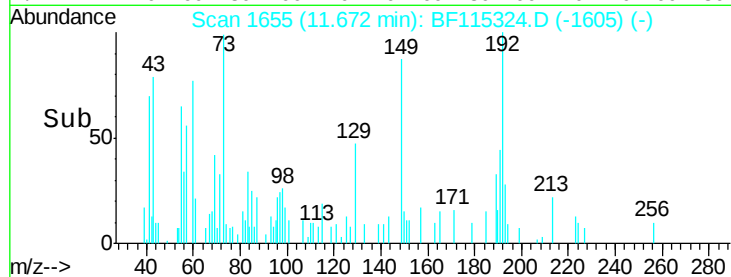
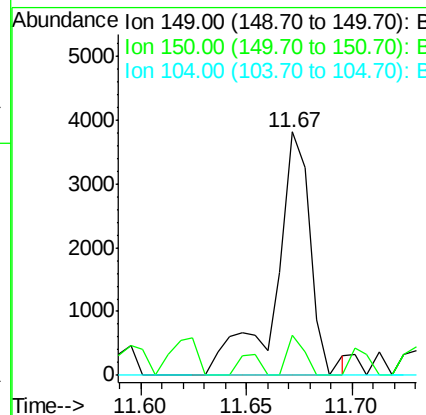
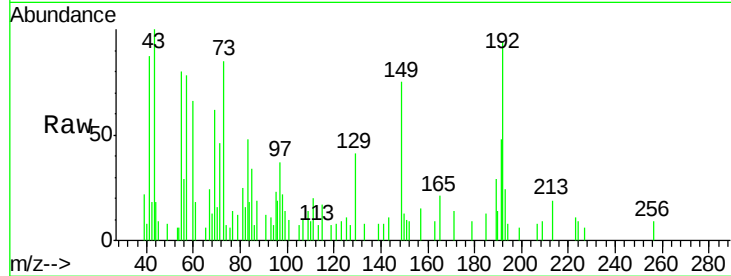
ClientSampled :

RT-4651

Tgt Ion:	149	Resp:	4409
Ion Ratio	Lower	Upper	
149	100		
150	16.6	7.8	11.8#
104	0.0	3.7	5.5#

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM



#75

Fluoranthene

Concen: 5.202 ng

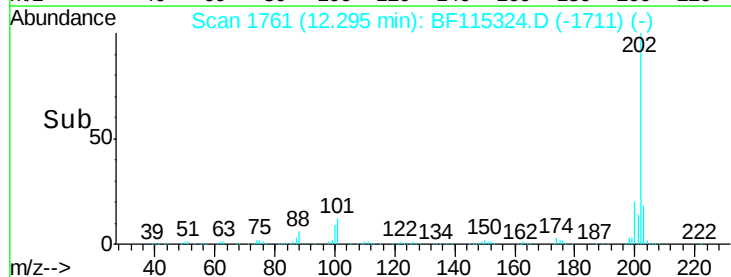
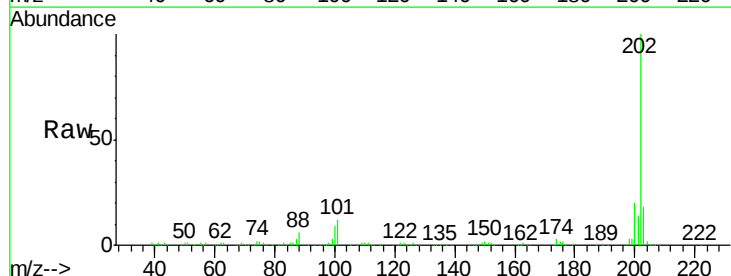
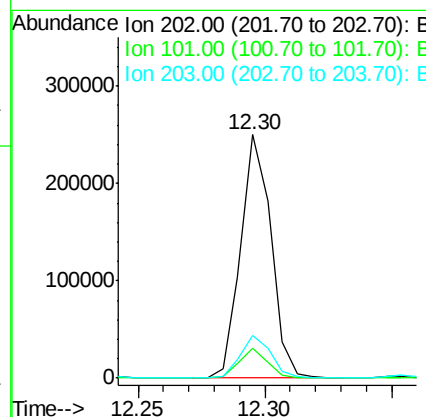
RT: 12.30 min Scan# 1761

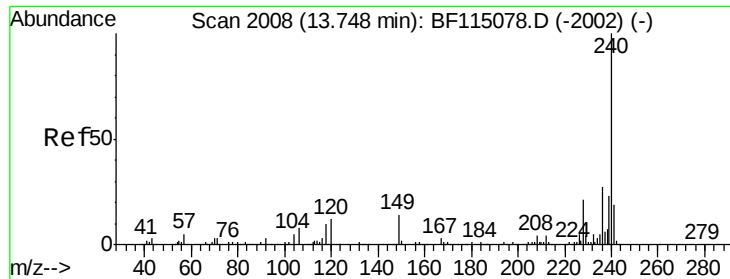
Delta R.T. -0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Tgt Ion:	202	Resp:	208546
Ion Ratio	Lower	Upper	
202	100		
101	12.5	0.0	34.0
203	17.5	0.0	38.8





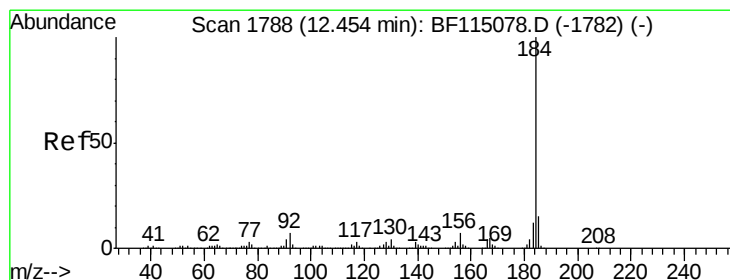
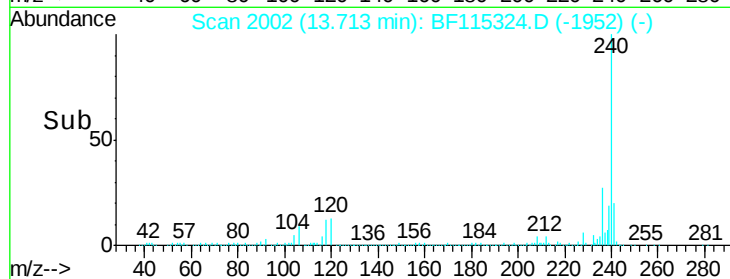
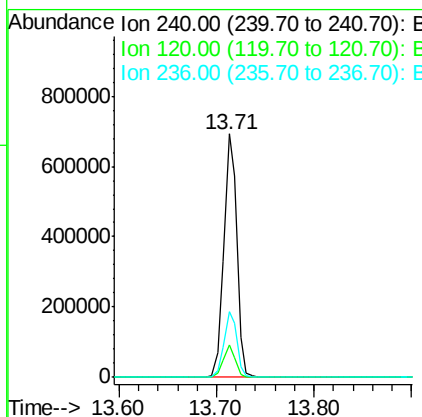
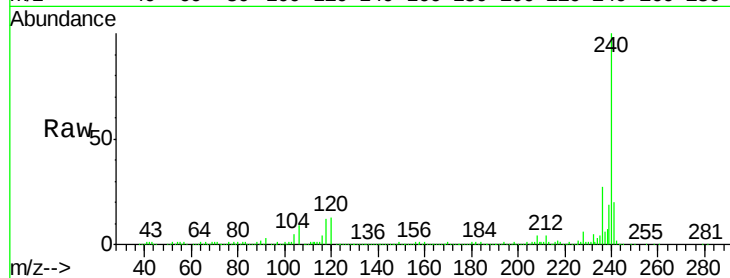
#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.71 min Scan# 2002
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Lower	Upper
240	100		
120	13.4	9.4	14.2
236	27.2	21.7	32.5

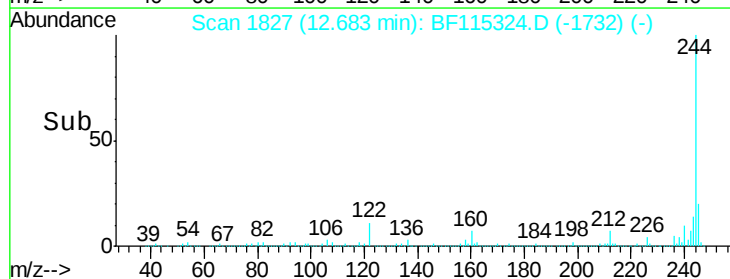
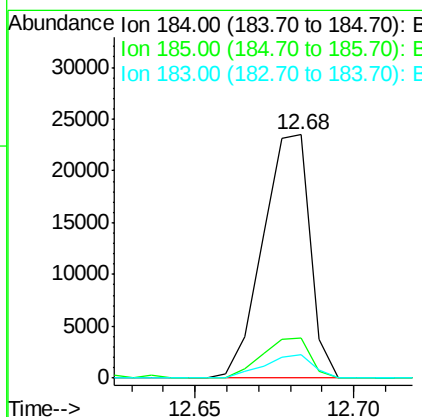
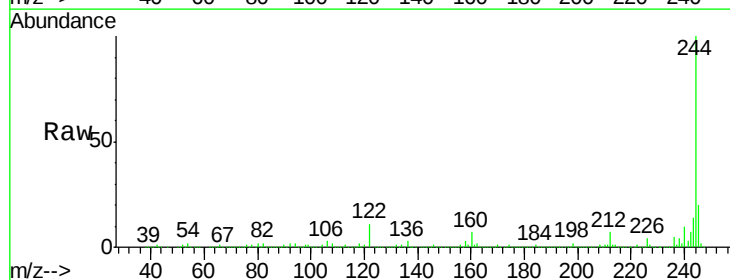
Manual Integrations
APPROVED

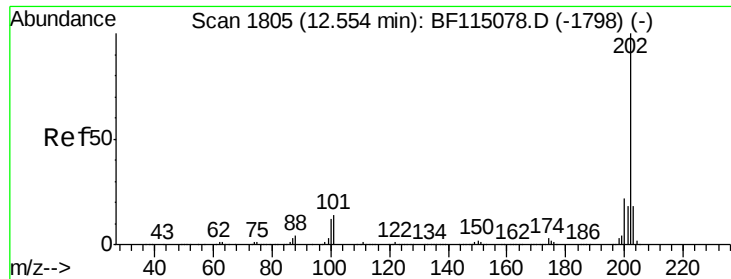
mohammad
7/1/2019 5:59:13 PM



#77
Benzidine
Concen: 0.853 ng
RT: 12.68 min Scan# 1827
Delta R.T. 0.26 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
184	100		
185	16.6	12.2	18.2
183	9.6	9.6	14.4#





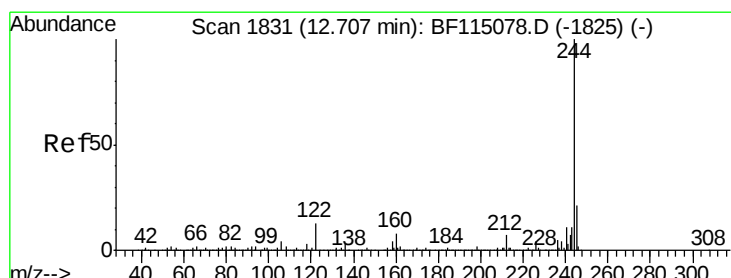
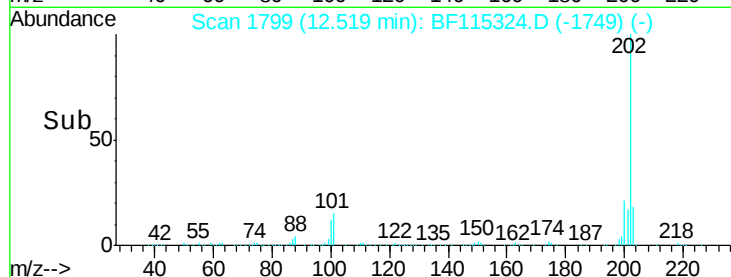
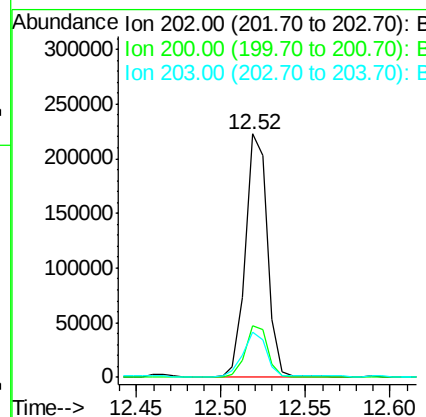
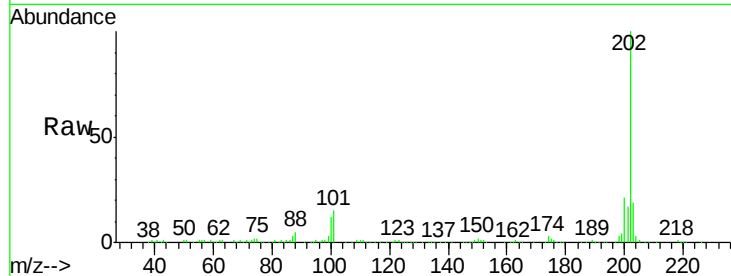
#78
Pyrene
Concen: 4.075 ng
RT: 12.52 min Scan# 1799
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Resp Lower	Resp Upper
202	100		
200	21.0	17.9	26.9
203	18.7	14.6	21.8

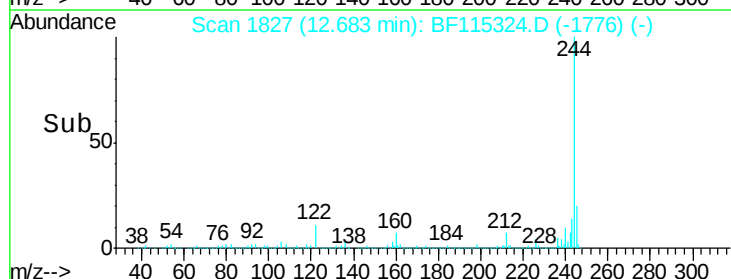
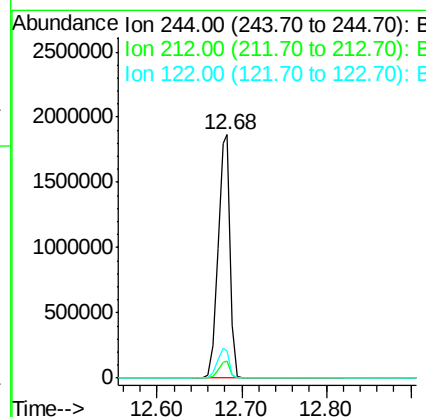
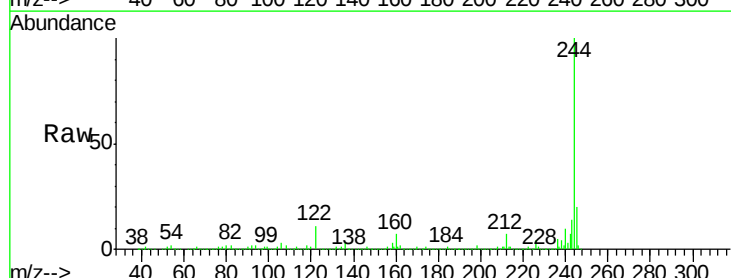
Manual Integrations
APPROVED

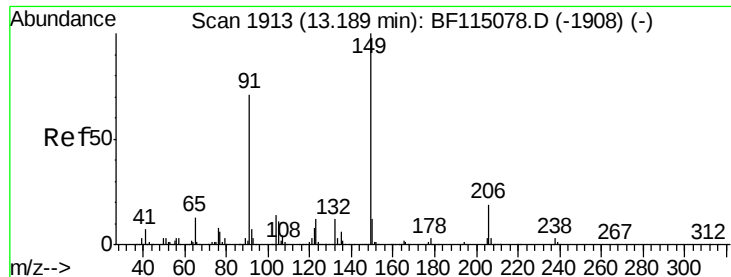
mohammad
7/1/2019 5:59:13 PM



#79
Terphenyl-d14
Concen: 63.158 ng
RT: 12.68 min Scan# 1827
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Resp Lower	Resp Upper
244	100		
212	6.8	5.8	8.6
122	11.1	10.4	15.6





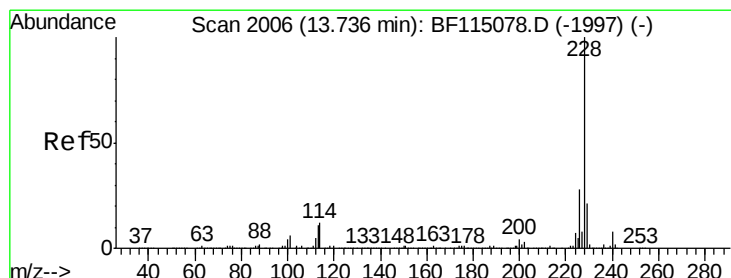
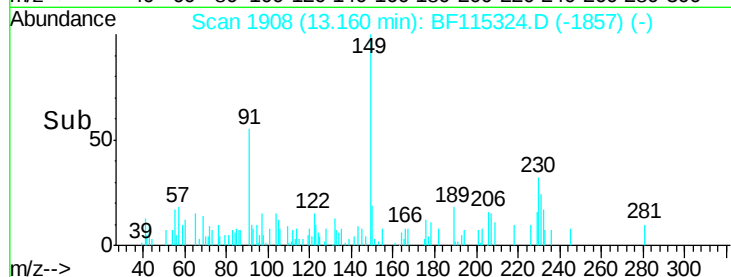
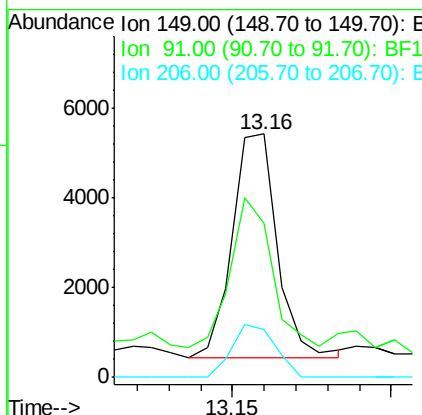
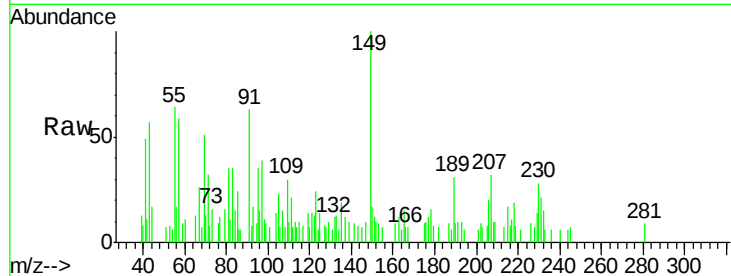
#80
Butylbenzylphthalate
Concen: 0.225 ng
RT: 13.16 min Scan# 1908
Delta R.T. 0.00 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Instrument :
BNA_F
ClientSampleId :
RT-4651

Tgt Ion	Ratio	Lower	Upper
149	100		
91	63.2	56.5	84.7
206	19.8	15.3	22.9

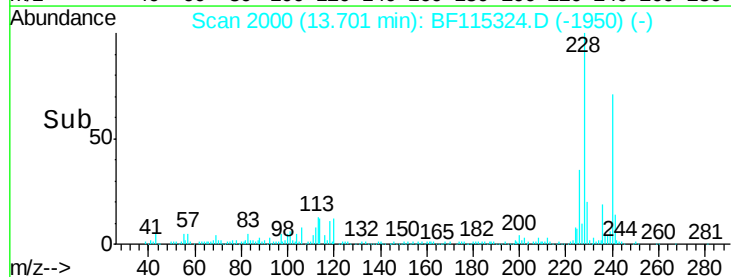
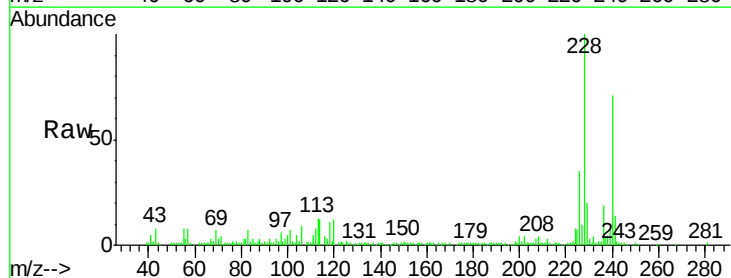
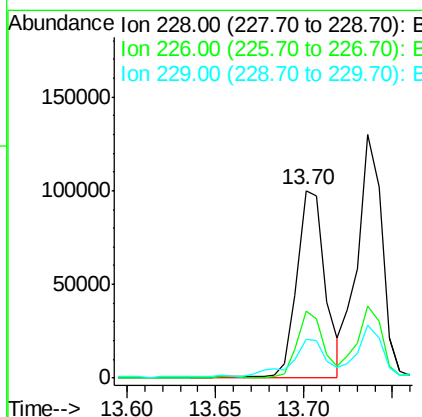
Manual Integrations
APPROVED

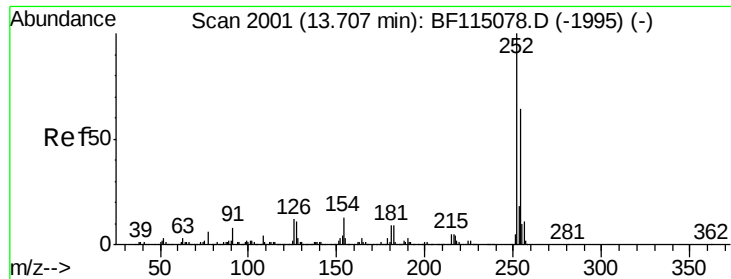
mohammad
7/1/2019 5:59:13 PM



#81
Benzo(a)anthracene
Concen: 2.445 ng m
RT: 13.70 min Scan# 2000
Delta R.T. -0.01 min
Lab File: BF115324.D
Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	35.4	22.5	33.7#
229	20.4	16.6	24.8





#82

3,3'-Dichlorobenzidine

Concen: 0.022 ng

RT: 13.69 min Scan# 1998

Delta R.T. 0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

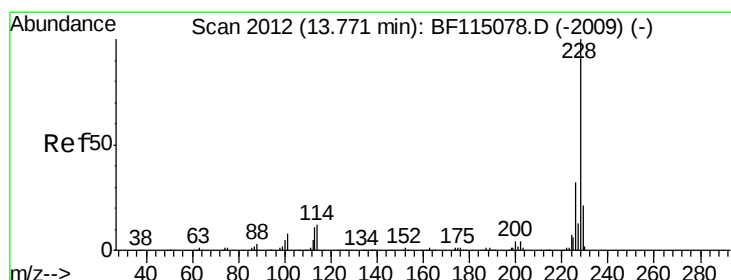
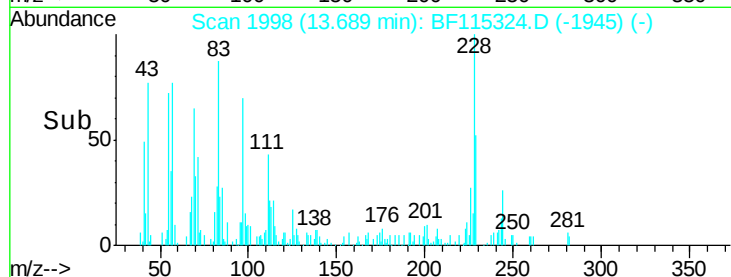
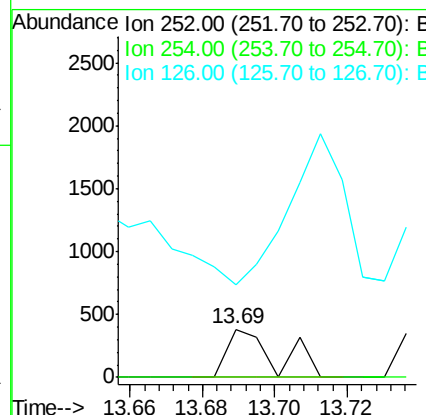
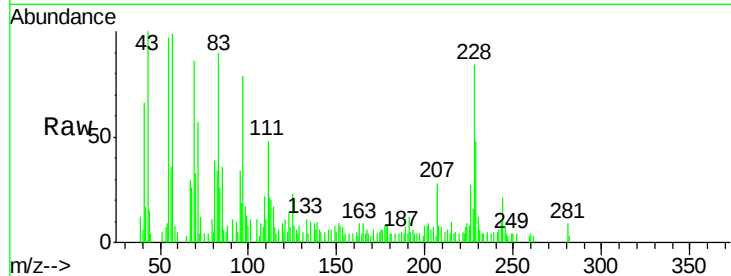
ClientSampleId :

RT-4651

Tgt Ion	Ratio	Lower	Upper
252	100		
254	0.0	51.1	76.7#
126	192.1	9.4	14.0#

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM



#83

Chrysene

Concen: 2.936 ng

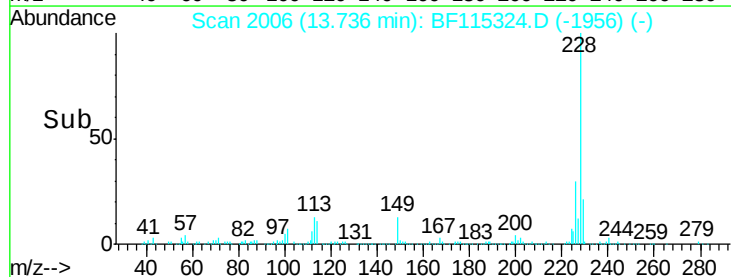
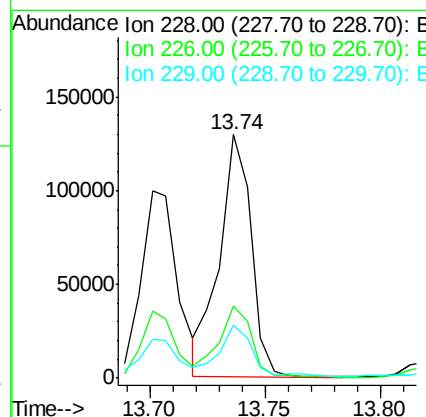
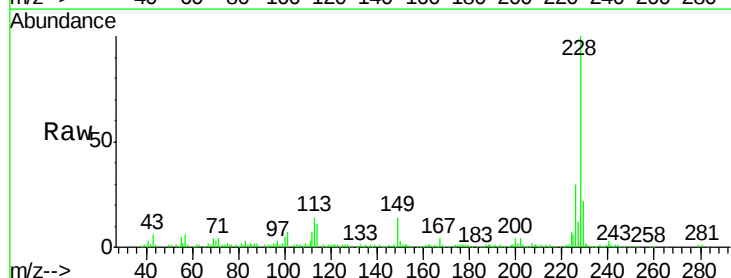
RT: 13.74 min Scan# 2006

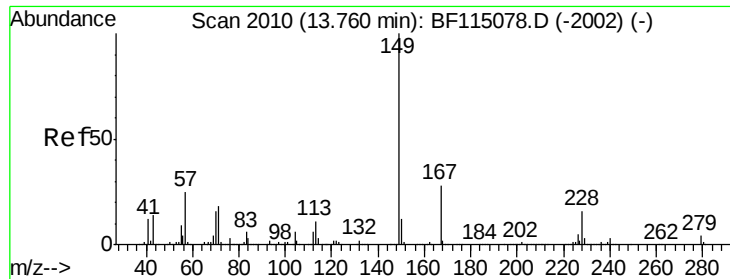
Delta R.T. -0.01 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.8	25.4	38.0
229	21.6	16.5	24.7





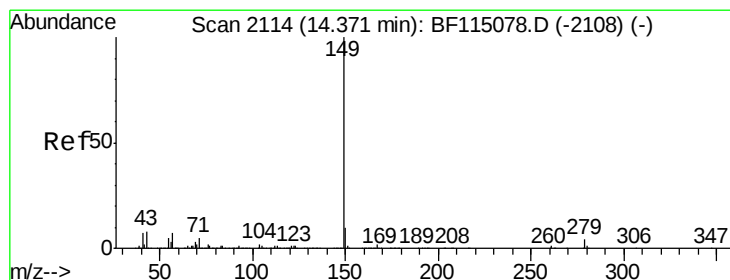
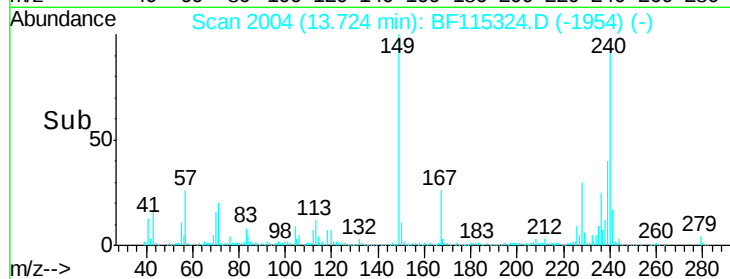
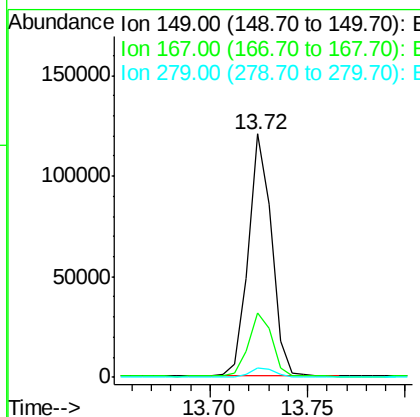
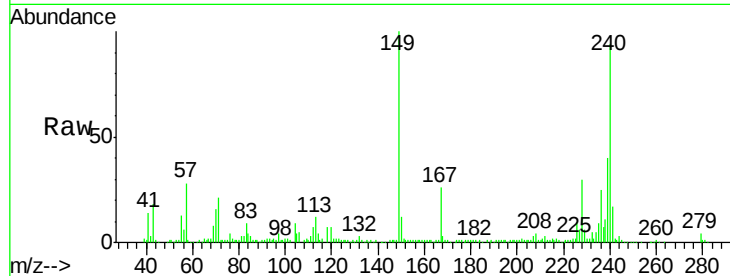
#84
 Bis(2-ethylhexyl)phthalate
 Concen: 3.484 ng
 RT: 13.72 min Scan# 2004
 Delta R.T. -0.01 min
 Lab File: BF115324.D
 Acq: 29 Jun 2019 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RT-4651

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.2	22.2	33.4
279	3.6	2.9	4.3

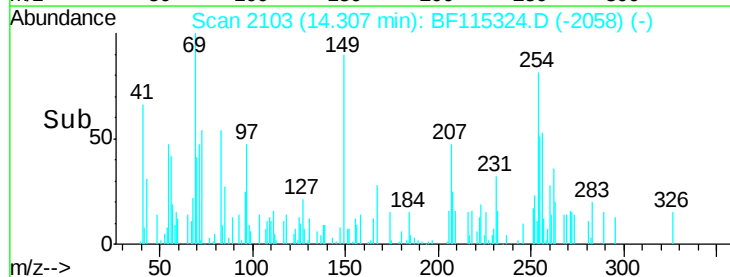
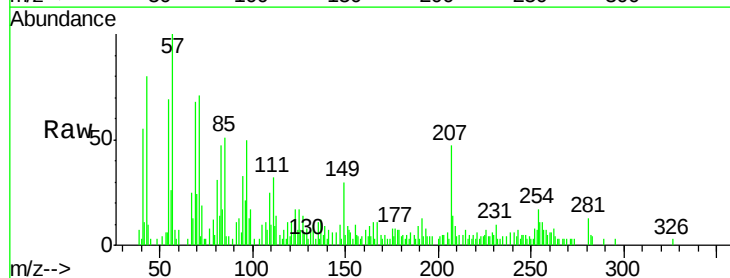
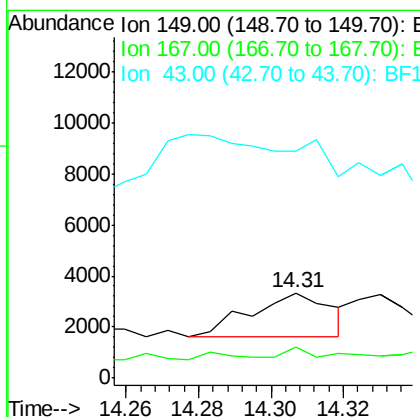
Manual Integrations
 APPROVED

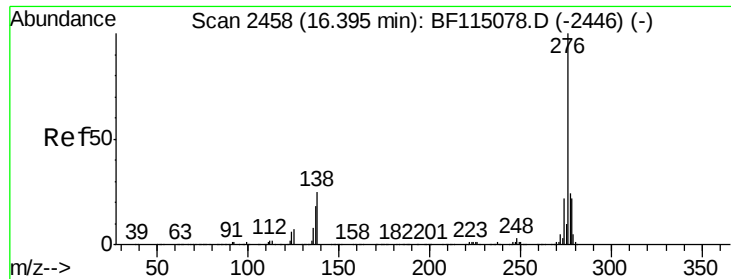
mohammad
 7/1/2019 5:59:13 PM



#85
 Di-n-octyl phthalate
 Concen: 0.055 ng
 RT: 14.31 min Scan# 2103
 Delta R.T. -0.04 min
 Lab File: BF115324.D
 Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
149	100		
167	13.5	1.2	1.8#
43	0.0	7.0	10.6#





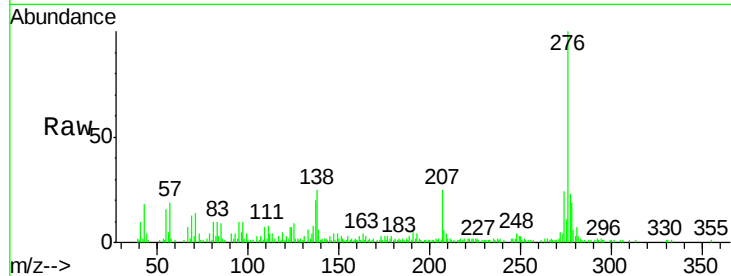
#86
 Indeno(1,2,3-cd)pyrene
 Concen: 1.213 ng
 RT: 16.34 min Scan# 2448
 Delta R.T. -0.02 min
 Lab File: BF115324.D
 Acq: 29 Jun 2019 15:47

Instrument :
 BNA_F
 ClientSampleId :
 RT-4651

Tgt Ion	Ratio	Lower	Upper
276	100		
138	25.8	23.2	34.8
277	25.0	20.1	30.1

Manual Integrations
 APPROVED

mohammad
 7/1/2019 5:59:13 PM

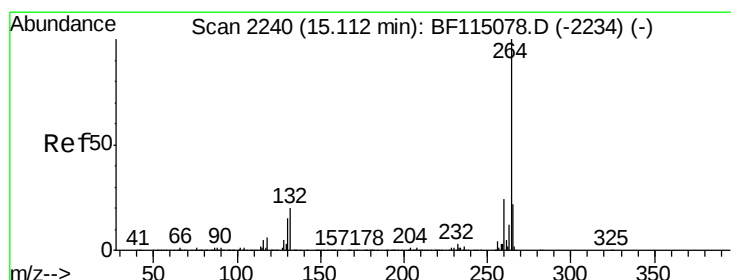
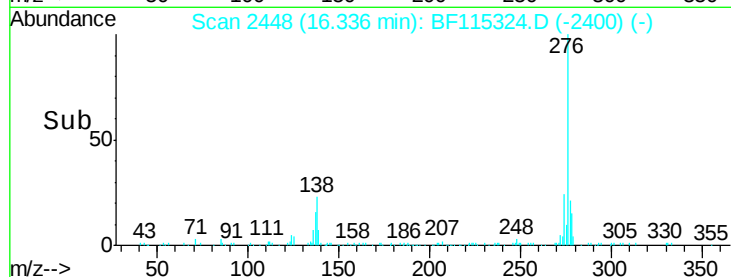
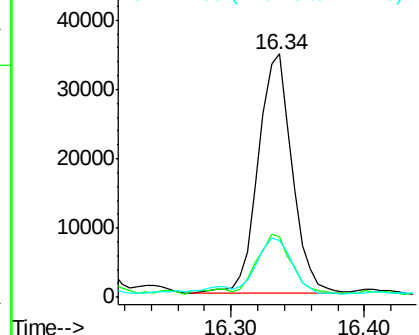


Abundance

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
 Perylene-d12
 Concen: 20.000 ng
 RT: 15.08 min Scan# 2234
 Delta R.T. -0.01 min
 Lab File: BF115324.D
 Acq: 29 Jun 2019 15:47

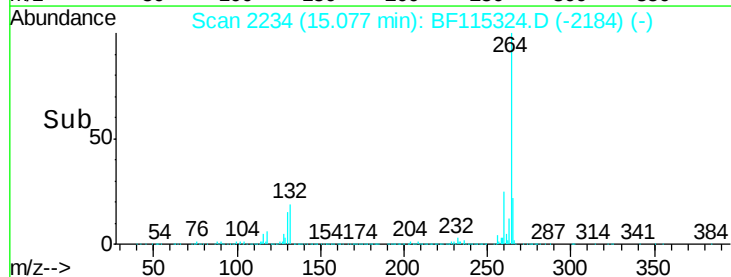
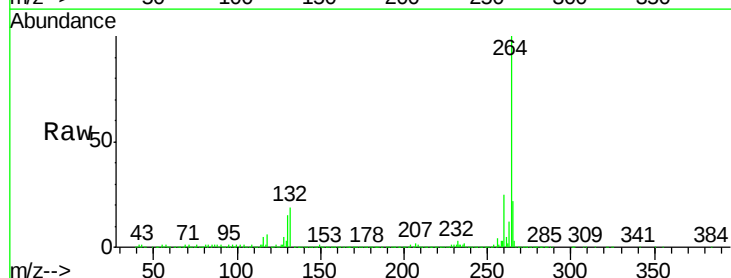
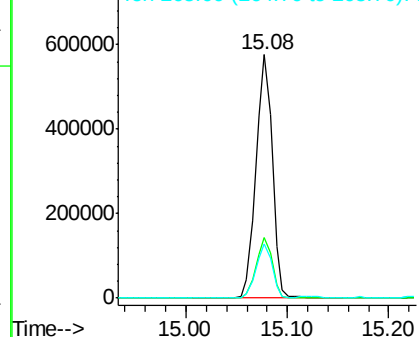
Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.6	29.4
265	22.3	17.3	25.9

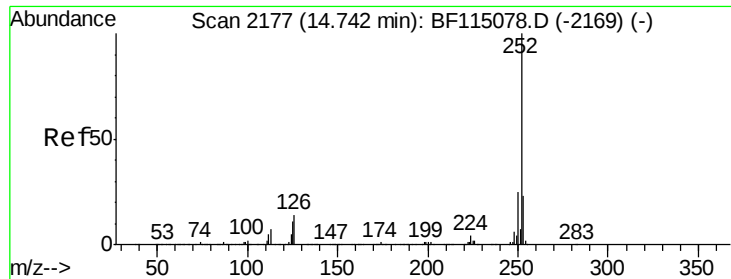
Abundance

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: 3.934 ng m

RT: 14.70 min Scan# 2170

Delta R.T. -0.02 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Instrument :

BNA_F

ClientSampleId :

RT-4651

Tgt Ion:252 Resp: 159638
Ion Ratio Lower Upper

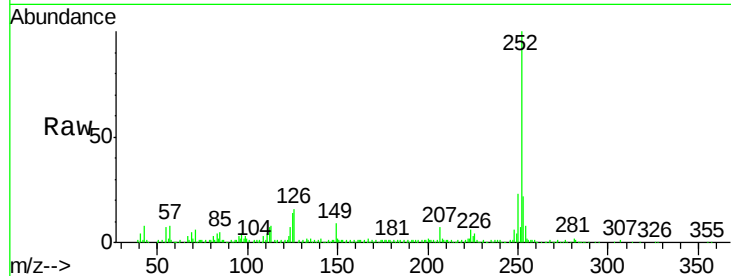
252 100

253 22.2 18.1 27.1

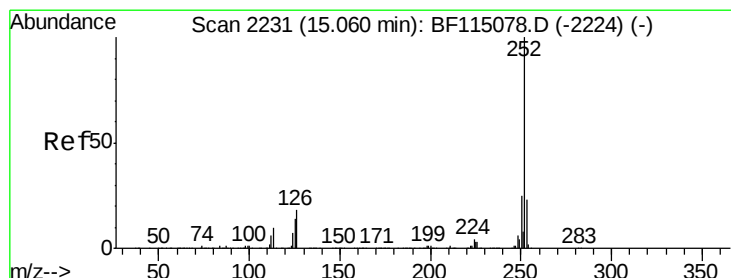
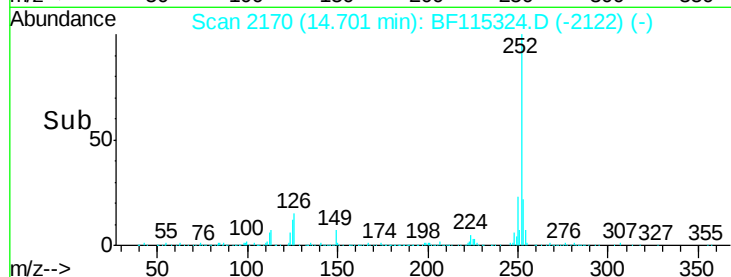
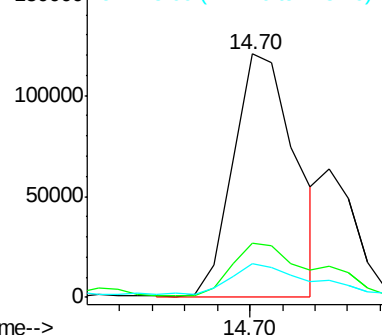
125 13.7 8.7 13.1#

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 2.799 ng

RT: 15.02 min Scan# 2224

Delta R.T. -0.02 min

Lab File: BF115324.D

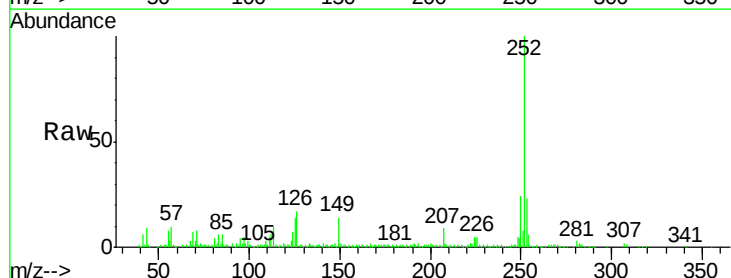
Acq: 29 Jun 2019 15:47

Tgt Ion:252 Resp: 102361
Ion Ratio Lower Upper

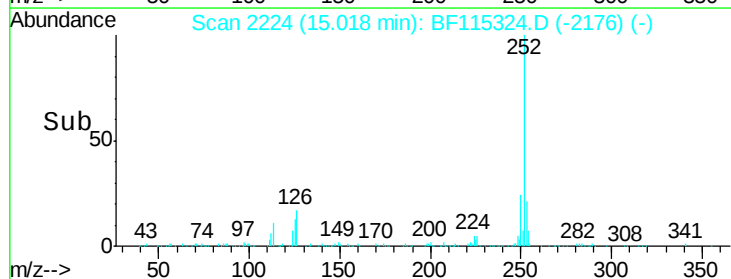
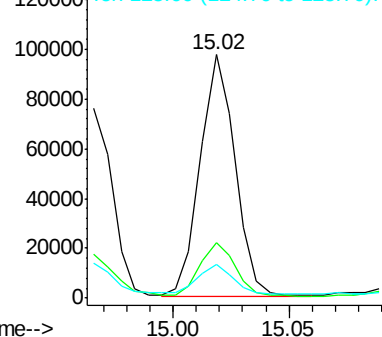
252 100

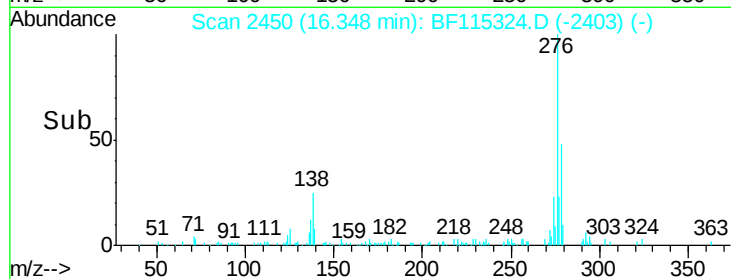
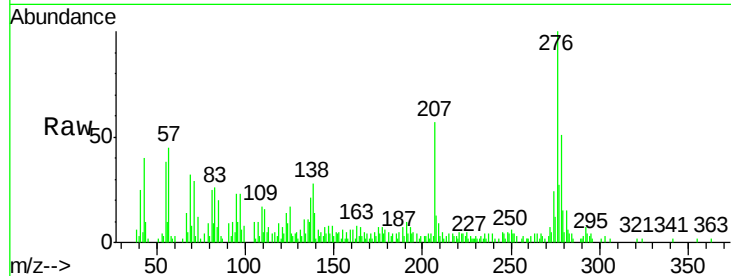
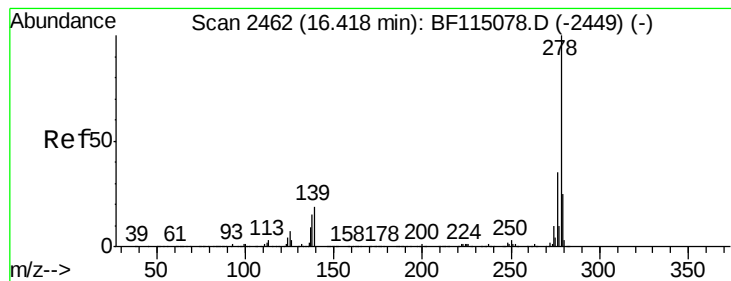
253 22.5 18.3 27.5

125 13.7 10.9 16.3



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91

Dibenzo(a,h)anthracene

Concen: 0.494 ng

RT: 16.35 min Scan# 2450

Delta R.T. -0.02 min

Lab File: BF115324.D

Acq: 29 Jun 2019 15:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	27.9	15.4	23.2#
279	29.1	19.9	29.9

Instrument :

BNA_F

ClientSampleId :

RT-4651

Manual Integrations
APPROVED

mohammad
7/1/2019 5:59:13 PM

