

Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
 Data File : BP001140.D
 Acq On : 02 Dec 2019 22:12
 Operator : JU
 Sample : K6054-01 5X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_P
 ClientSampleId :
 RBR-50

Manual Integrations
 APPROVED

mohammad
 12/4/2019 5:00:14 PM

Quant Time: Dec 03 01:17:35 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP112719.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Nov 27 17:38:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.33	152	142744	20.00	ng	0.00
21) Naphthalene-d8	10.36	136	524370	20.00	ng	0.00
39) Acenaphthene-d10	13.23	164	274299	20.00	ng	0.00
64) Phenanthrene-d10	15.63	188	530075	20.00	ng	0.00
76) Chrysene-d12	19.27	240	403410	20.00	ng	0.00
87) Perylene-d12	21.06	264	458836	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	6.22	112	189187	21.99	ng	0.00
7) Phenol-d6	7.76	99	256931	22.42	ng	0.00
23) Nitrobenzene-d5	9.20	82	156801	12.97	ng	0.00
42) 2,4,6-Tribromophenol	14.52	330	49463	18.81	ng	0.00
45) 2-Fluorobiphenyl	12.14	172	262418	14.00	ng	-0.01
79) Terphenyl-d14	17.91	244	282760	12.97	ng	0.00

Target Compounds				Qvalue		
31) Naphthalene	10.40	128	57052	2.130	ng	98
49) Acenaphthylene	12.99	152	80626	3.177	ng	98
52) Acenaphthene	13.28	154	66741	4.371	ng	98
55) Dibenzofuran	13.56	168	83662	3.646	ng	99
58) Fluorene	14.13	166	98145	5.338	ng	97
71) Phenanthrene	15.67	178	1394881	50.053	ng	99
72) Anthracene	15.74	178	308846	11.244	ng	99
73) Carbazole	15.99	167	127272	5.092	ng	98
75) Fluoranthene	17.38	202	1925272	65.258	ng	99
78) Pyrene	17.69	202	1637698	51.543	ng	99
81) Benzo(a)anthracene	19.26	228	818262	29.255	ng	98
83) Chrysene	19.31	228	779728	31.132	ng	97
86) Indeno(1,2,3-cd)pyrene	22.71	276	356523	12.078	ng	95
88) Benzo(b)fluoranthene	20.57	252	866932m	30.934	ng	
89) Benzo(k)fluoranthene	20.60	252	325895m	12.073	ng	
90) Benzo(a)pyrene	20.99	252	610750	23.659	ng	98
91) Dibenzo(a,h)anthracene	22.72	278	97353	3.854	ng	# 89
92) Benzo(g,h,i)perylene	23.20	276	318467	12.767	ng	99

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

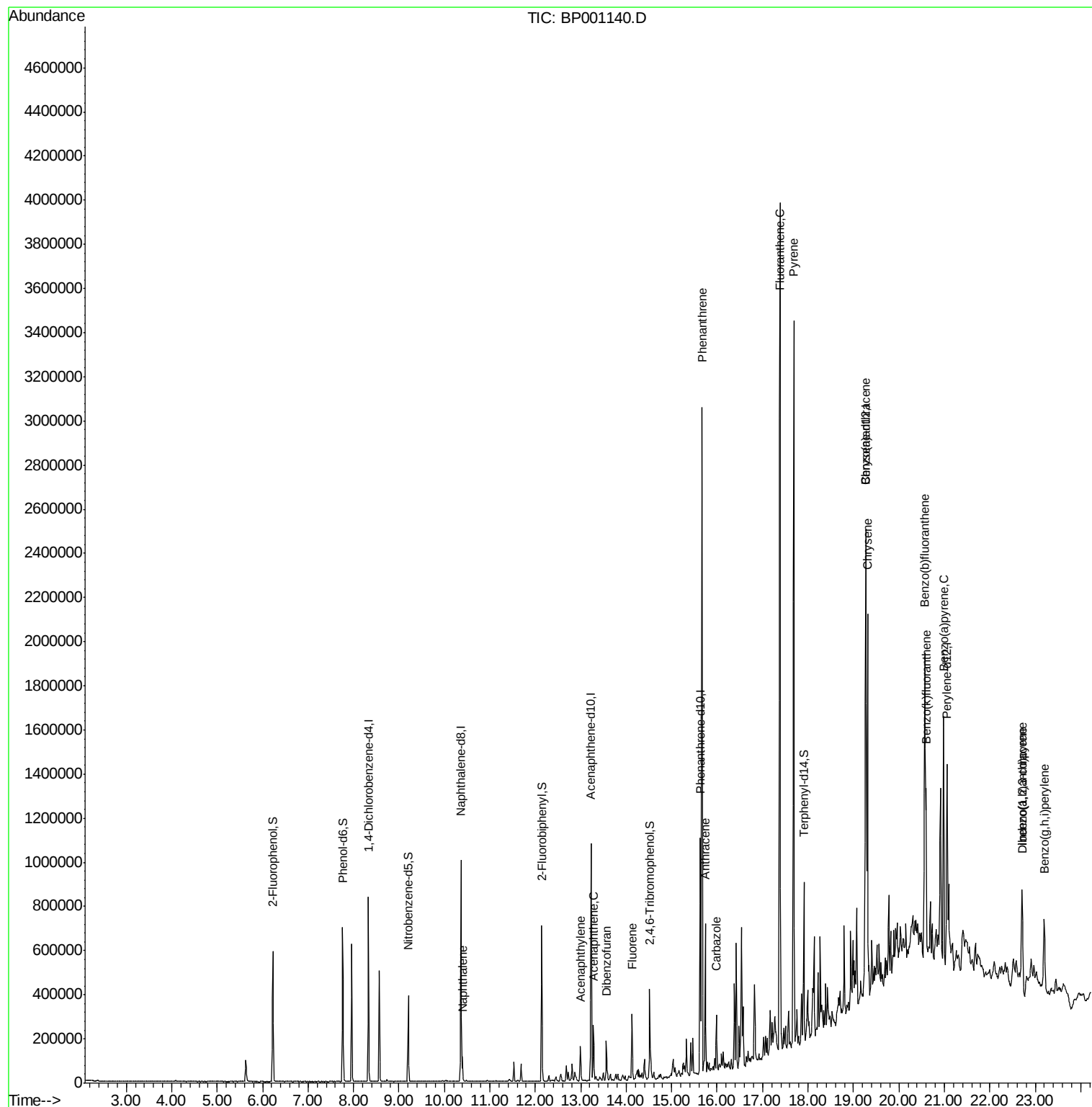
Data Path : Z:\SVOASRV\HPCHEM1\BNA P\DATA\BP120219\
Data File : BP001140.D
Acq On : 02 Dec 2019 22:12
Operator : JU
Sample : K6054-01 5X
Misc :
ALS Vial : 21 Sample Multiplier: 1

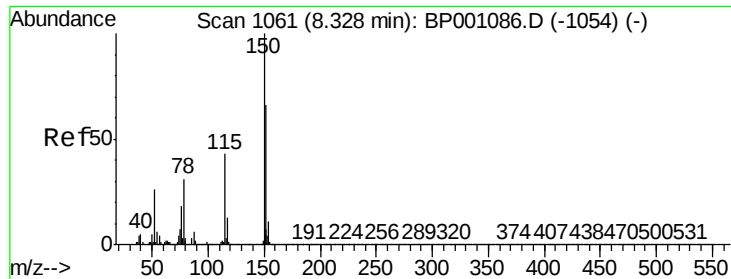
Instrument :
BNA_P
ClientSampleId :
RBR-50

Manual Integrations
APPROVED

mohammad
12/4/2019 5:00:14 PM

Quant Time: Dec 03 01:17:35 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA P\METHODS\8270-BP112719.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 27 17:38:46 2019
Response via : Initial Calibration





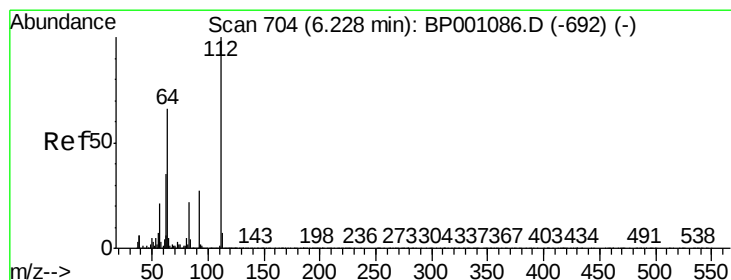
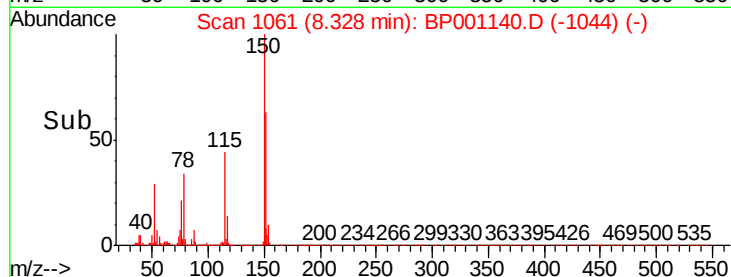
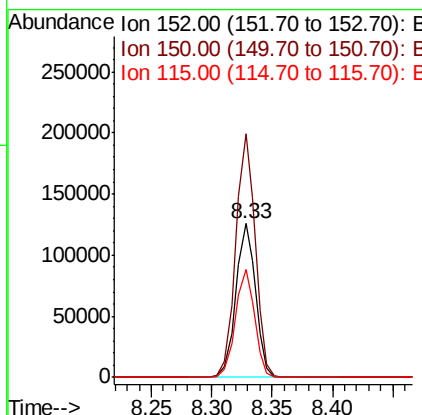
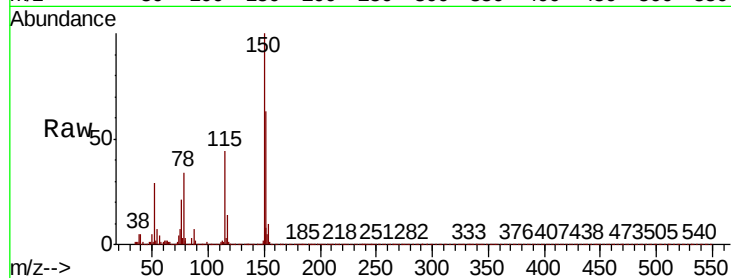
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 8.33 min Scan# 1061
Delta R.T. 0.00 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampled :
RBR-50

Tot Ion	Ratio	Lower	Upper
152	100		
150	158.3	120.6	181.0
115	70.4	51.6	77.4

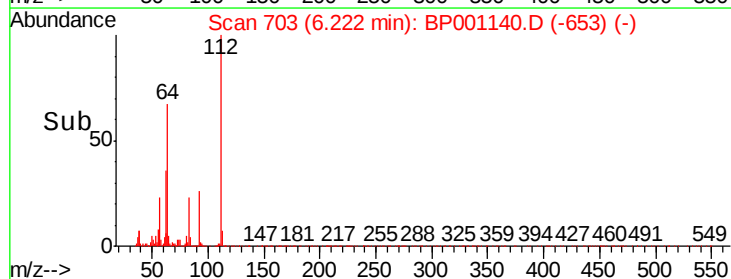
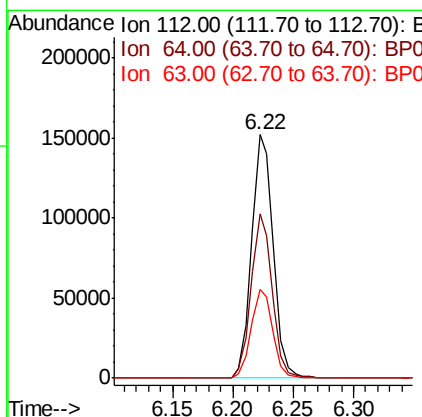
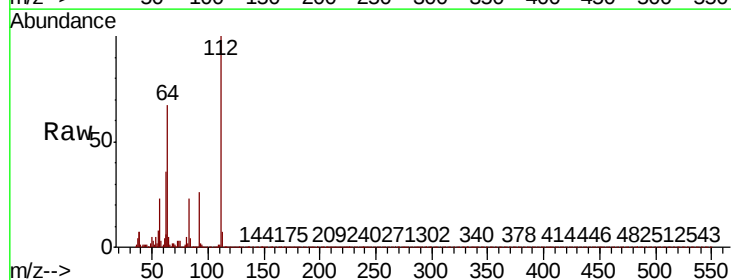
Manual Integrations
APPROVED

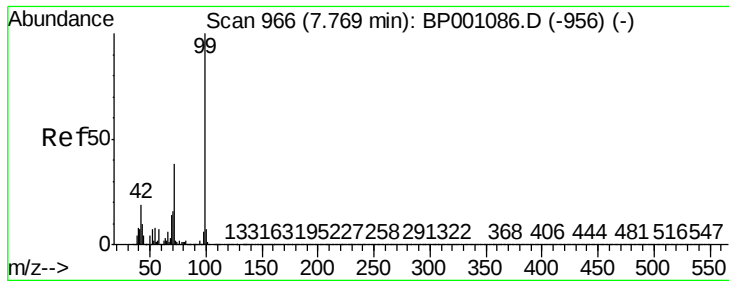
mohammad
12/4/2019 5:00:14 PM



#5
2-Fluorophenol
Concen: 21.989 ng
RT: 6.22 min Scan# 703
Delta R.T. -0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.4	52.8	79.2
63	36.2	28.2	42.2





#7

Phenol-d6

Concen: 22.415 ng

RT: 7.76 min Scan# 965

Delta R.T. -0.01 min

Lab File: BP001140.D

Acq: 02 Dec 2019 22:12

Instrument :

BNA_P

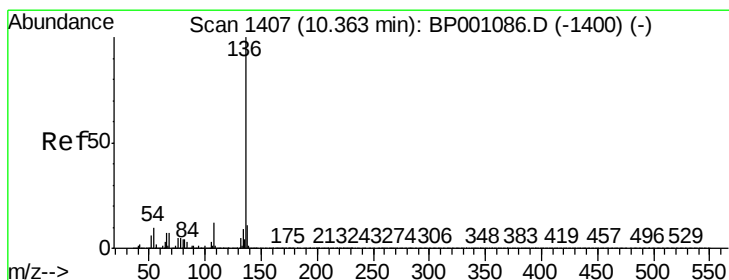
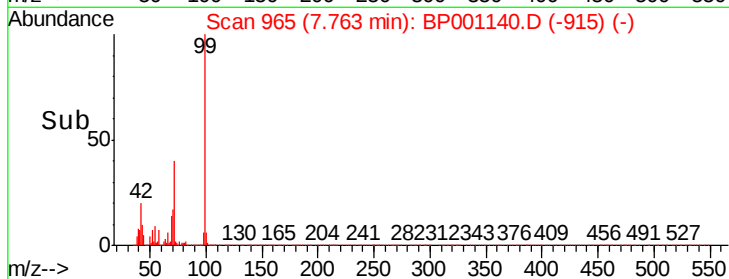
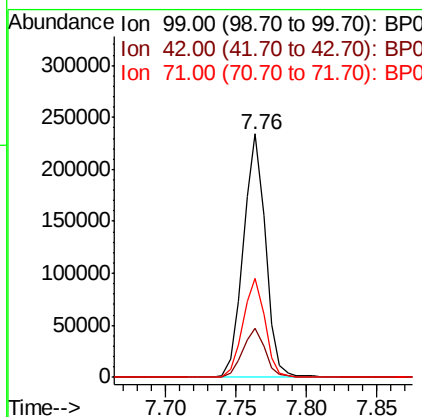
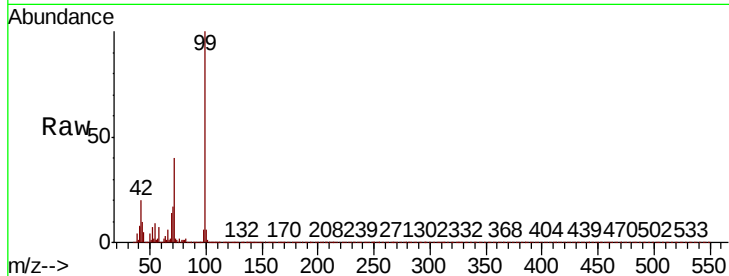
ClientSampleId :

RBR-50

Tot Ion	Ion	Ratio	Resp	Lower	Upper
99	100		256931		
42	20.2	15.4	23.0		
71	40.4	30.8	46.2		

Manual Integrations
APPROVED

mohammad
12/4/2019 5:00:14 PM



#21

Naphthalene-d8

Concen: 20.000 ng

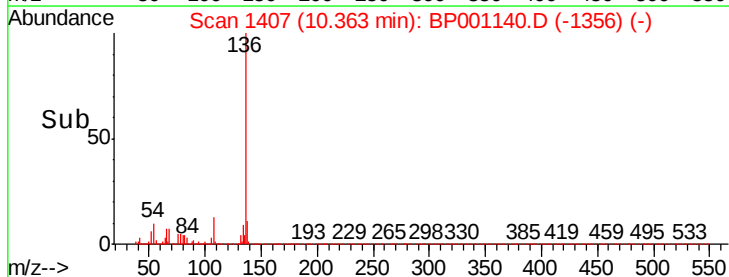
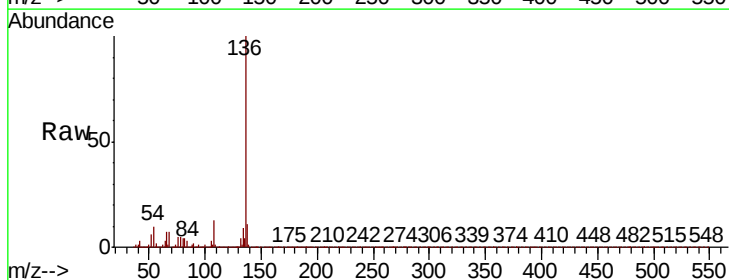
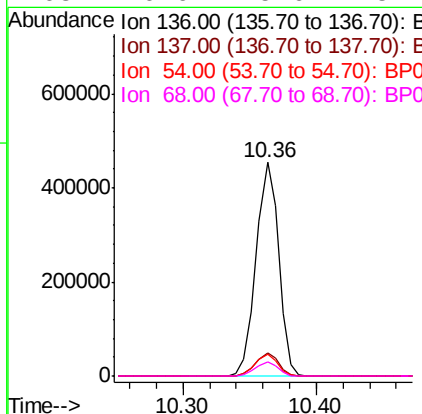
RT: 10.36 min Scan# 1407

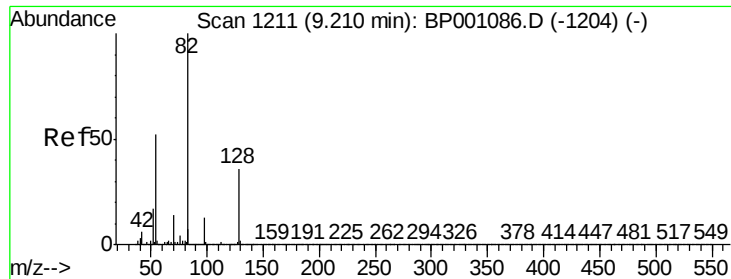
Delta R.T. 0.00 min

Lab File: BP001140.D

Acq: 02 Dec 2019 22:12

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
136	100		524370		
137	11.0	8.8	13.2		
54	10.0	7.9	11.9		
68	6.6	5.6	8.4		





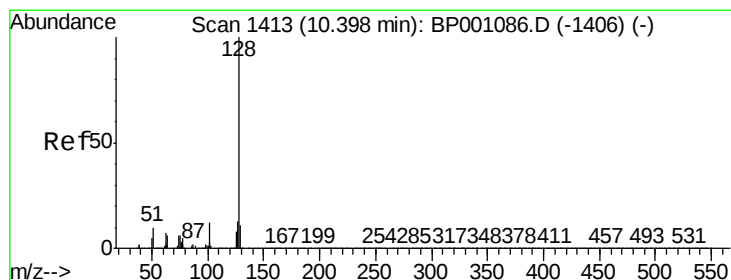
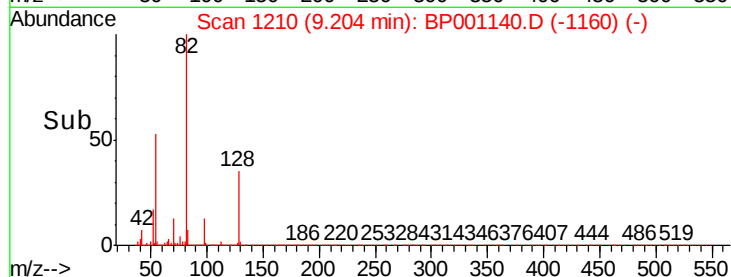
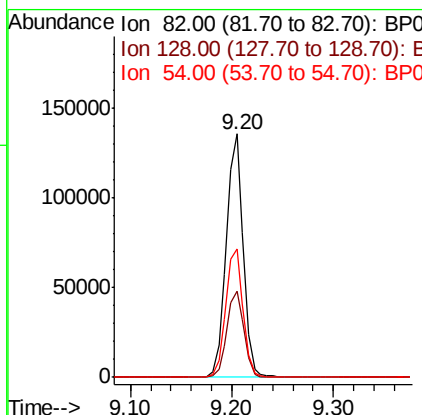
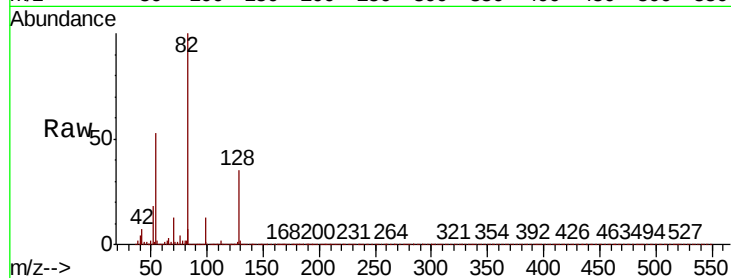
#23
Nitrobenzene-d5
Concen: 12.974 ng
RT: 9.20 min Scan# 1210
Delta R.T. -0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampleId :
RBR-50

Tot Ion	Ratio	Resp	Lower	Upper
82	100	156801		
128	35.4	28.9	43.3	
54	52.7	41.9	62.9	

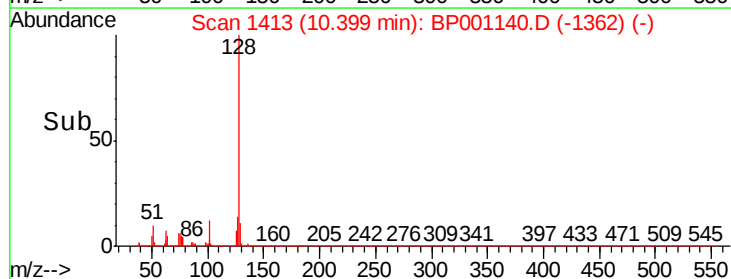
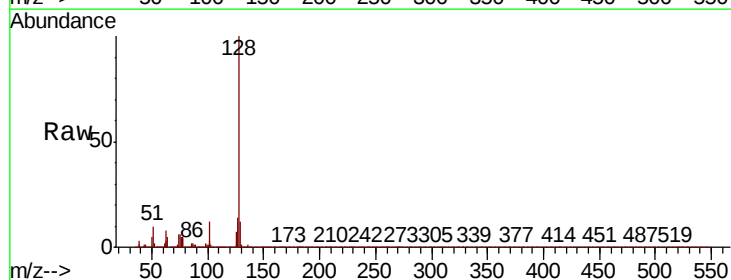
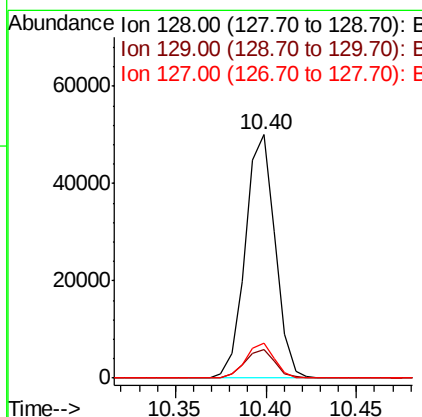
Manual Integrations
APPROVED

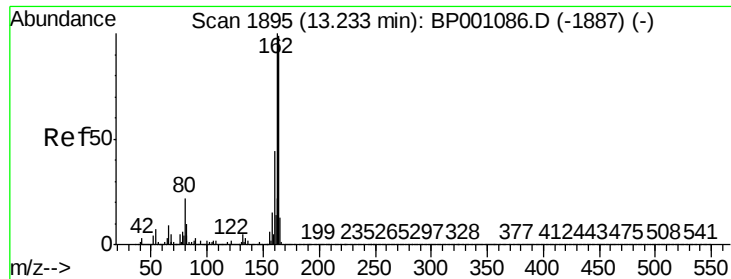
mohammad
12/4/2019 5:00:14 PM



#31
Naphthalene
Concen: 2.130 ng
RT: 10.40 min Scan# 1413
Delta R.T. 0.00 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	57052		
129	11.5	8.8	13.2	
127	14.3	10.6	16.0	





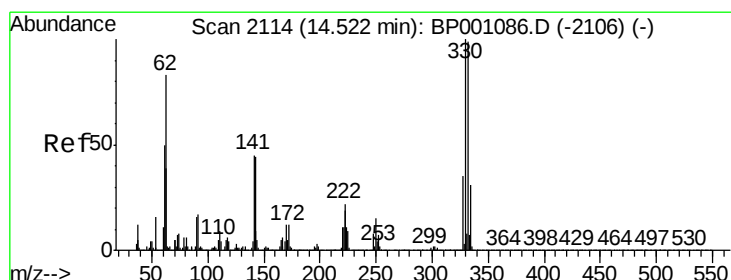
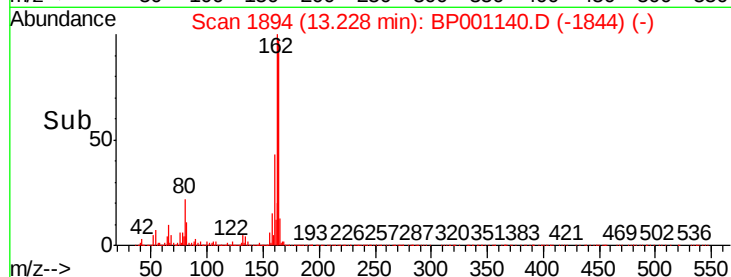
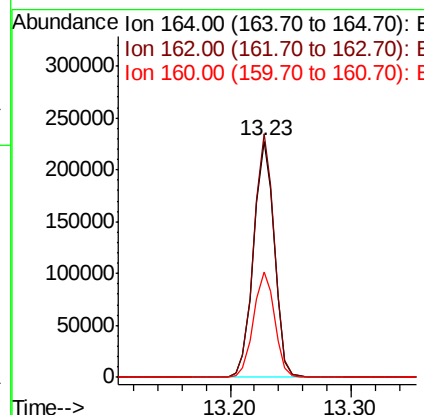
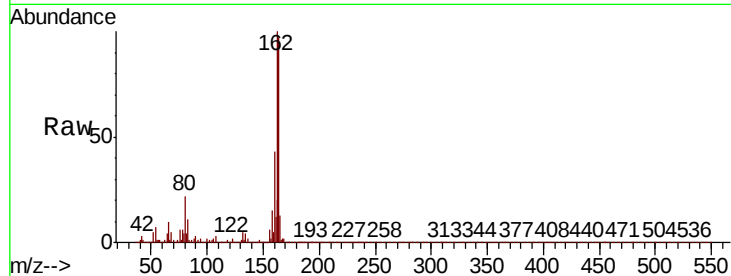
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 13.23 min Scan# 1894
Delta R.T. -0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampleId :
RBR-50

Tot Ion	Ratio	Lower	Upper
164	100		
162	103.1	80.6	120.8
160	44.5	35.4	53.2

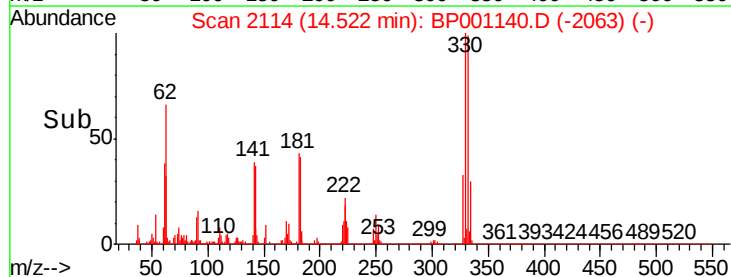
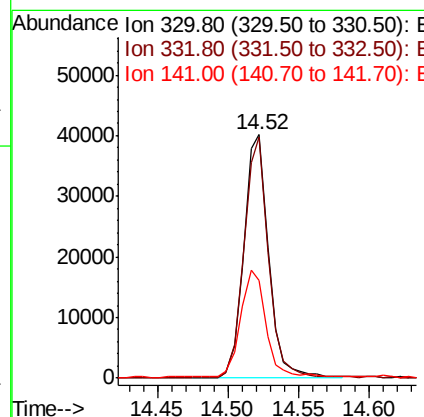
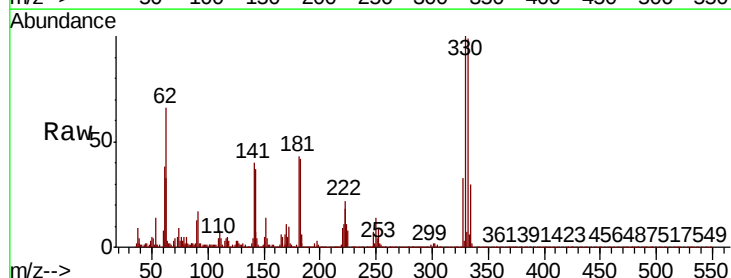
Manual Integrations
APPROVED

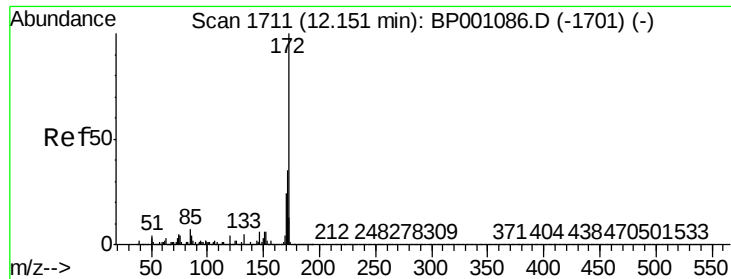
mohammad
12/4/2019 5:00:14 PM



#42
2,4,6-Tribromophenol
Concen: 18.813 ng
RT: 14.52 min Scan# 2114
Delta R.T. 0.00 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.6	116.4
141	46.2	34.2	51.2





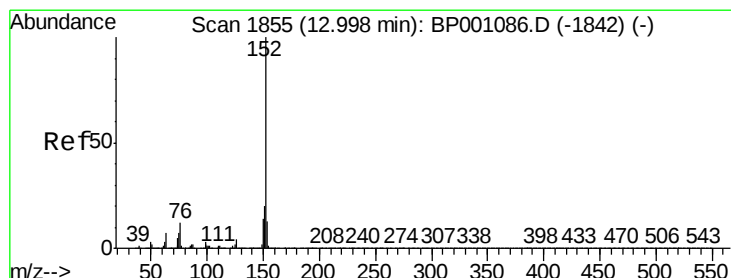
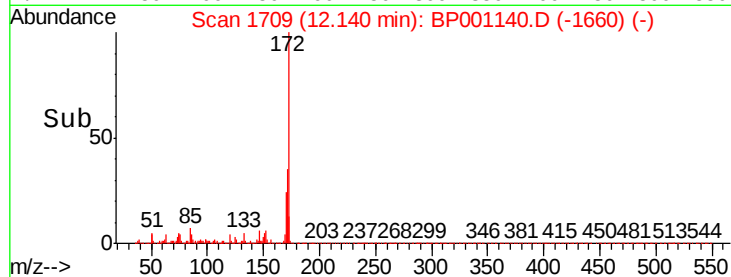
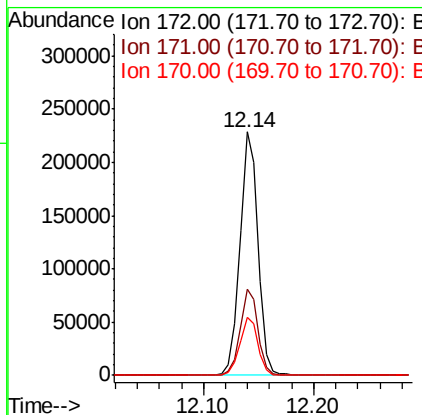
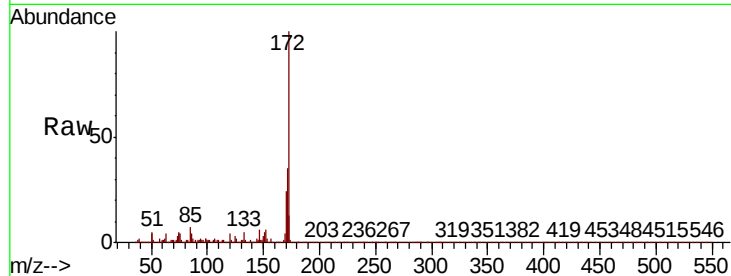
#45
2-Fluorobiphenyl
Concen: 14.002 ng
RT: 12.14 min Scan# 1709
Delta R.T. -0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampleId :
RBR-50

Tot Ion:	172	Resp:	262418
Ion Ratio	Lower	Upper	
172	100		
171	35.4	27.9	41.9
170	23.7	19.0	28.4

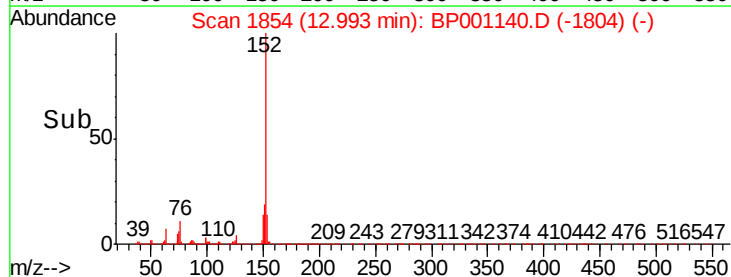
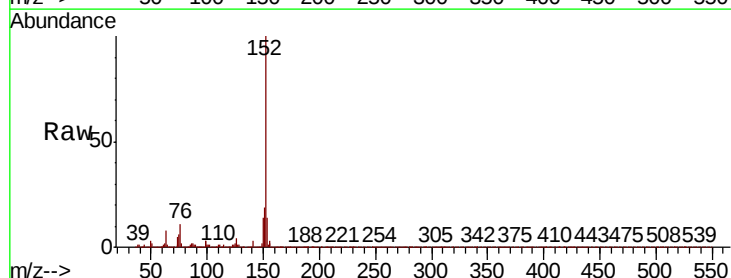
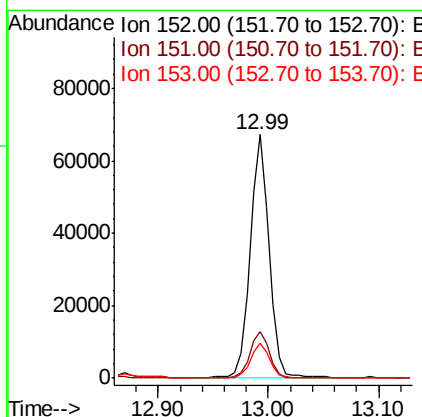
Manual Integrations
APPROVED

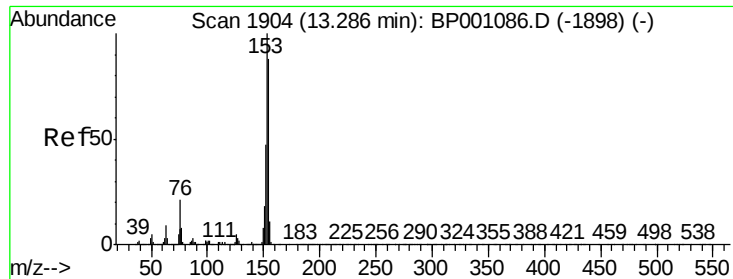
mohammad
12/4/2019 5:00:14 PM



#49
Acenaphthylene
Concen: 3.177 ng
RT: 12.99 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion:	152	Resp:	80626
Ion Ratio	Lower	Upper	
152	100		
151	19.1	15.8	23.8
153	14.3	10.2	15.4





#52

Acenaphthene

Concen: 4.371 ng

RT: 13.28 min Scan# 1903

Delta R.T. -0.01 min

Lab File: BP001140.D

Acq: 02 Dec 2019 22:12

Instrument :

BNA_P

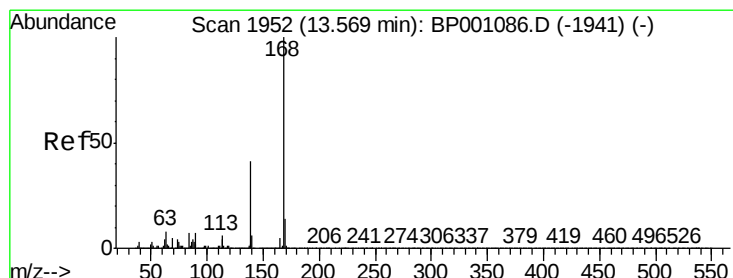
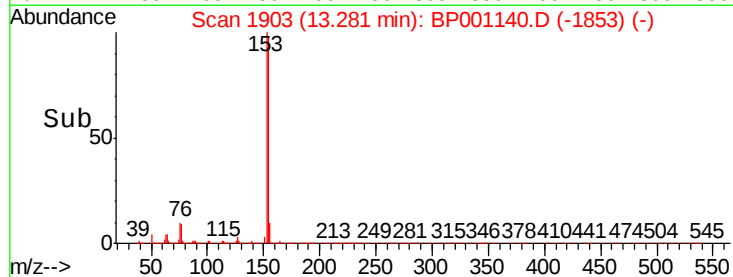
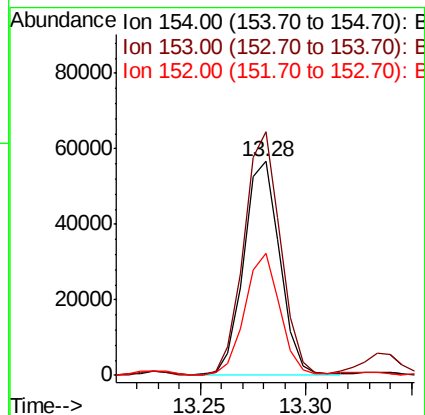
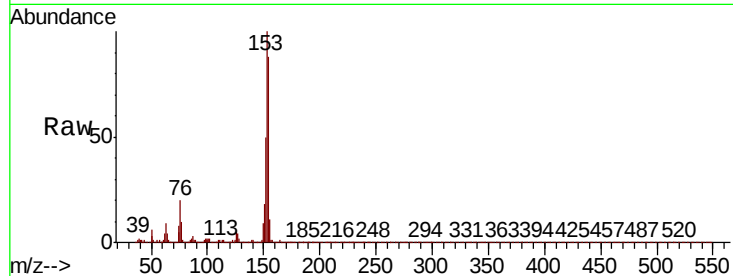
ClientSampleId :

RBR-50

Tot Ion:	154	Resp:	66741
Ion Ratio	Lower	Upper	
154	100		
153	114.0	90.5	135.7
152	56.8	42.6	64.0

Manual Integrations
APPROVED

mohammad
12/4/2019 5:00:14 PM



#55

Dibenzofuran

Concen: 3.646 ng

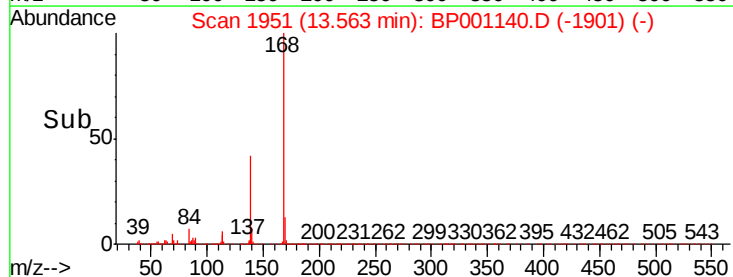
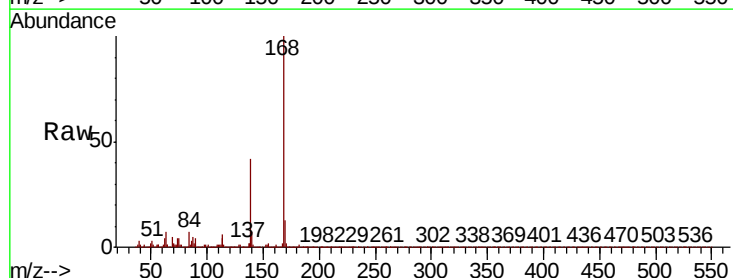
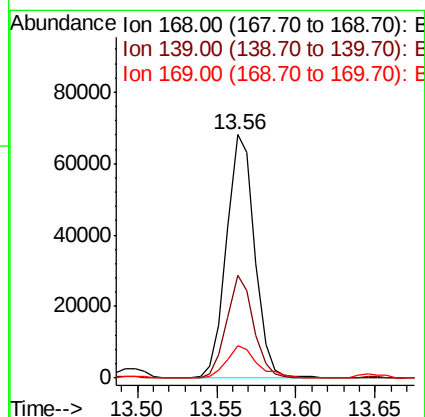
RT: 13.56 min Scan# 1951

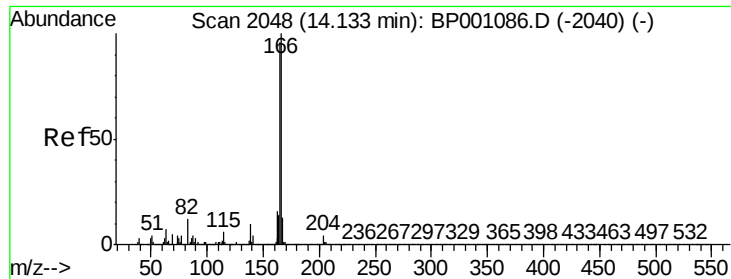
Delta R.T. -0.01 min

Lab File: BP001140.D

Acq: 02 Dec 2019 22:12

Tgt Ion:	168	Resp:	83662
Ion Ratio	Lower	Upper	
168	100		
139	42.0	32.8	49.2
169	13.3	10.9	16.3





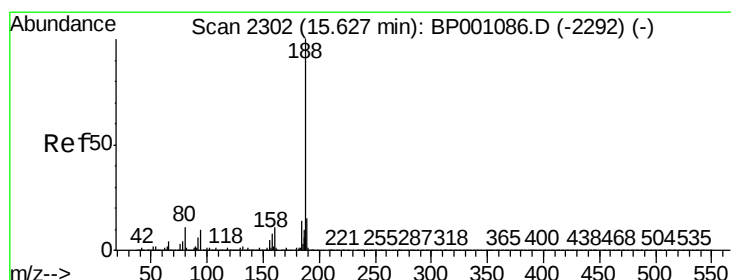
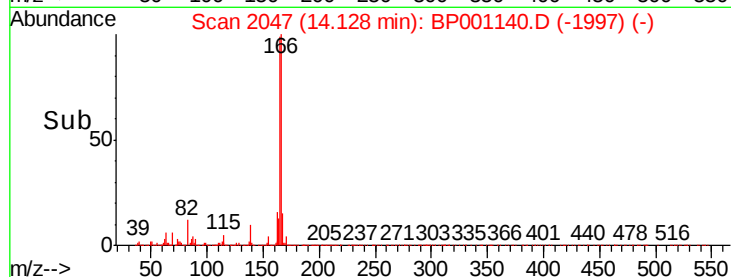
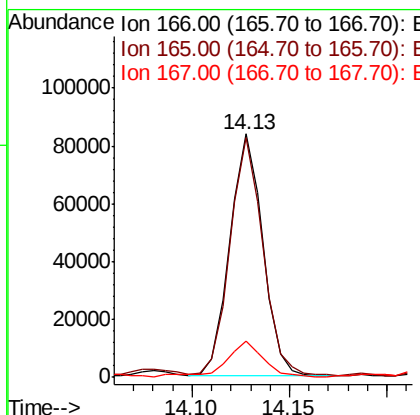
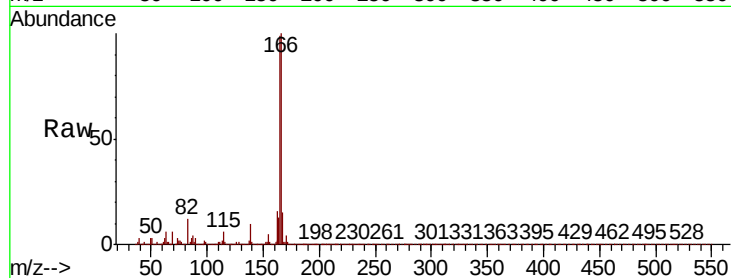
#58
 Fluorene
 Concen: 5.338 ng
 RT: 14.13 min Scan# 2047
 Delta R.T. -0.01 min
 Lab File: BP001140.D
 Acq: 02 Dec 2019 22:12

Instrument :
 BNA_P
 ClientSampleId :
 RBR-50

Tot Ion	Ratio	Lower	Upper
166	100		
165	98.6	76.7	115.1
167	14.7	10.5	15.7

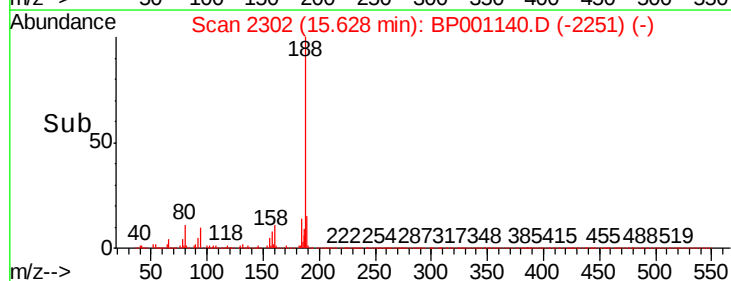
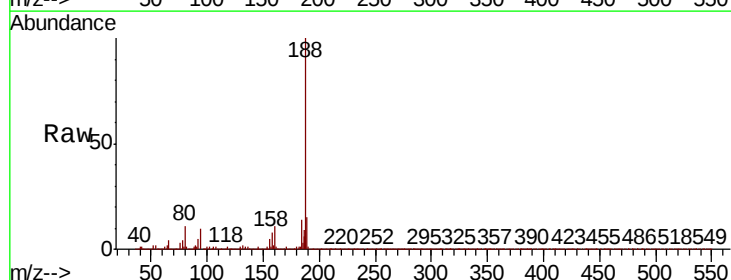
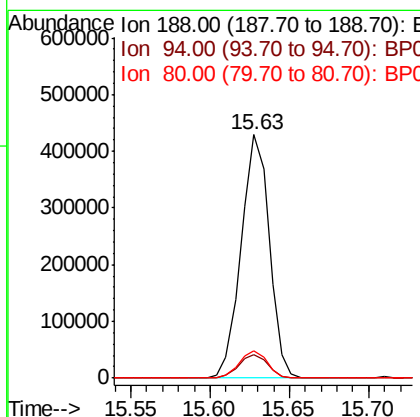
Manual Integrations
 APPROVED

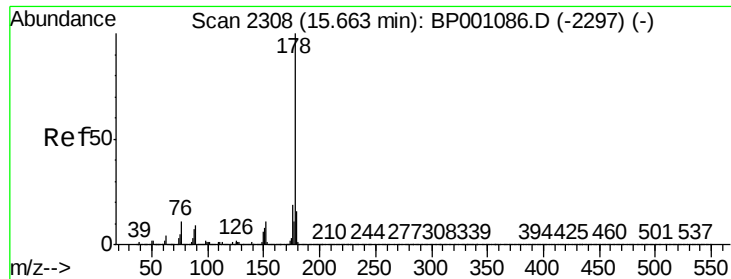
mohammad
 12/4/2019 5:00:14 PM



#64
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 15.63 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BP001140.D
 Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.9	11.9
80	11.2	8.8	13.2





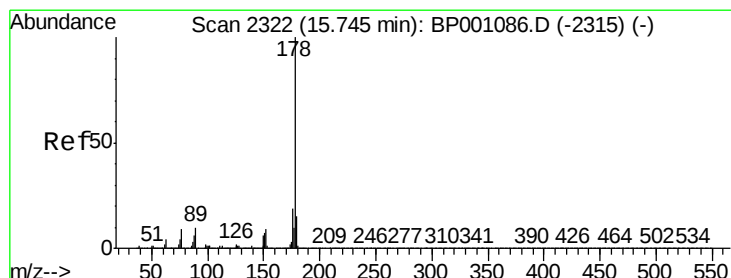
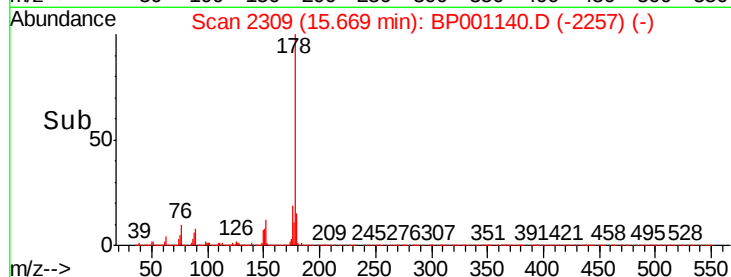
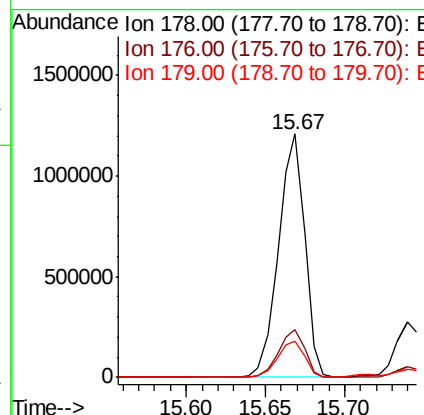
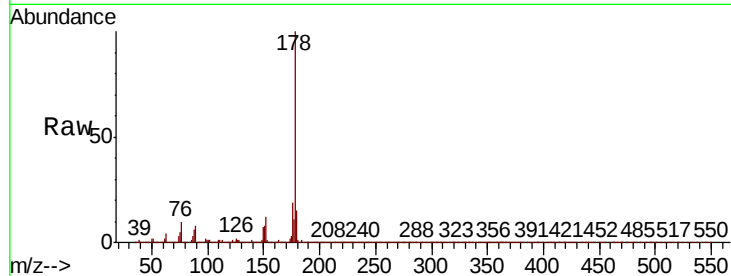
#71
Phenanthrene
Concen: 50.053 ng
RT: 15.67 min Scan# 2309
Delta R.T. 0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampleId :
RBR-50

Tot Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.1	12.5	18.7

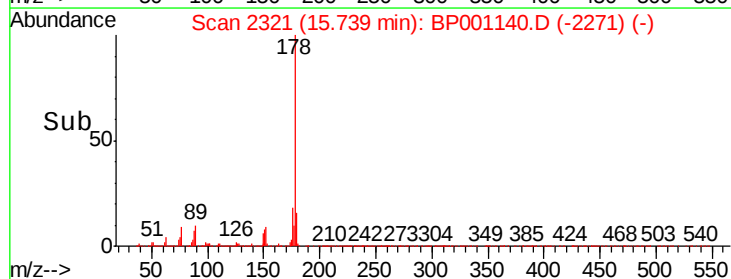
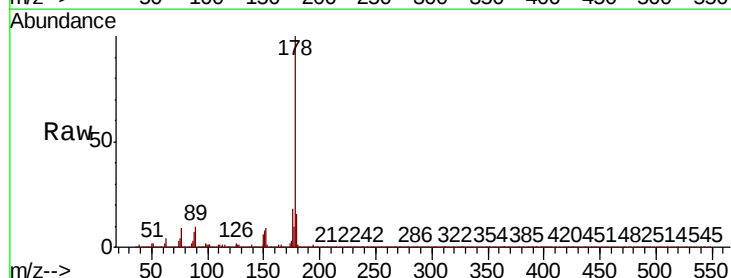
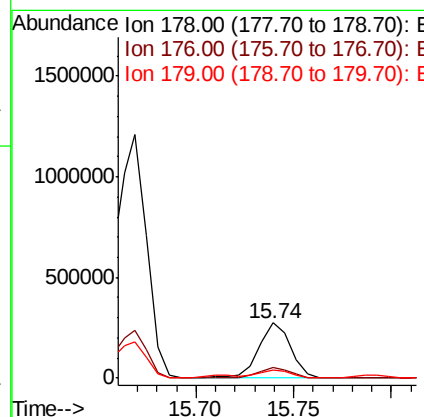
Manual Integrations
APPROVED

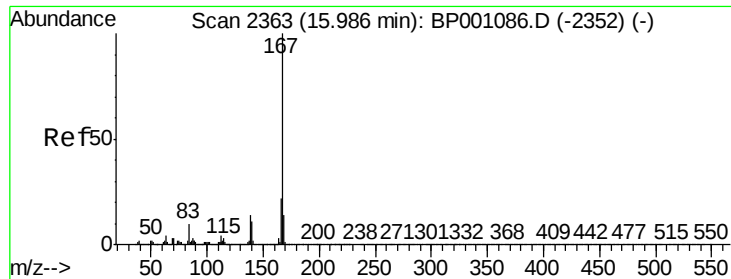
mohammad
12/4/2019 5:00:14 PM



#72
Anthracene
Concen: 11.244 ng
RT: 15.74 min Scan# 2321
Delta R.T. -0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.9	22.3
179	15.8	12.2	18.4





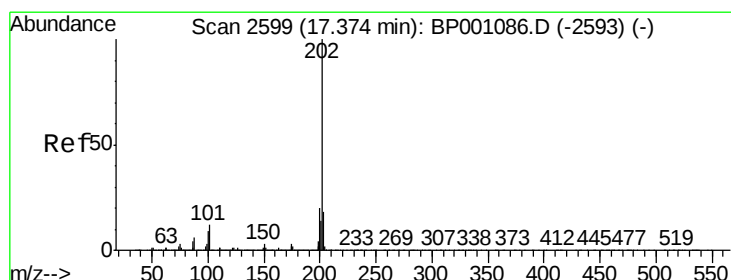
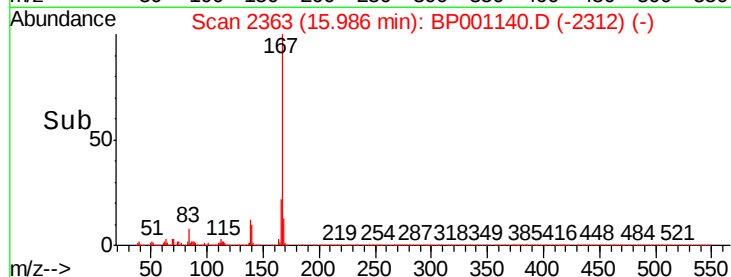
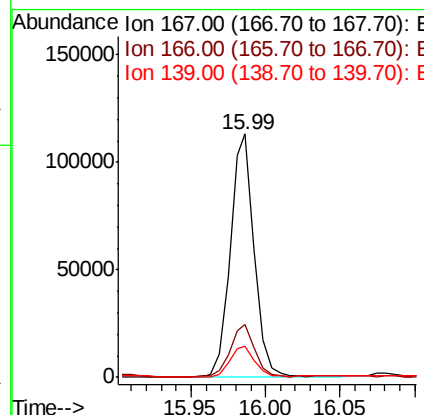
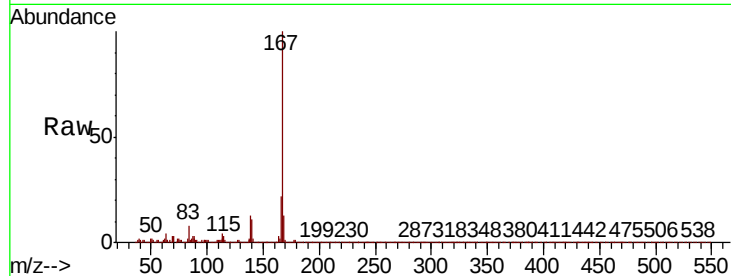
#73
 Carbazole
 Concen: 5.092 ng
 RT: 15.99 min Scan# 2363
 Delta R.T. 0.00 min
 Lab File: BP001140.D
 Acq: 02 Dec 2019 22:12

Instrument :
 BNA_P
 ClientSampleId :
 RBR-50

Tot Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.2	25.8
139	12.5	11.3	16.9

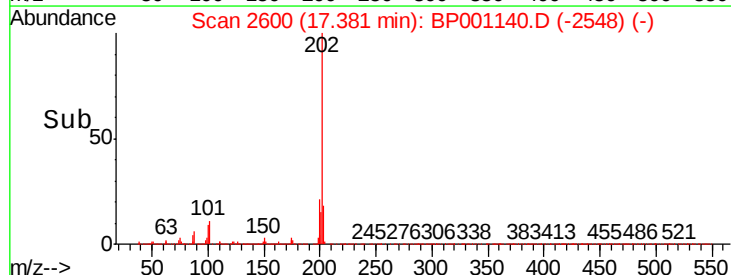
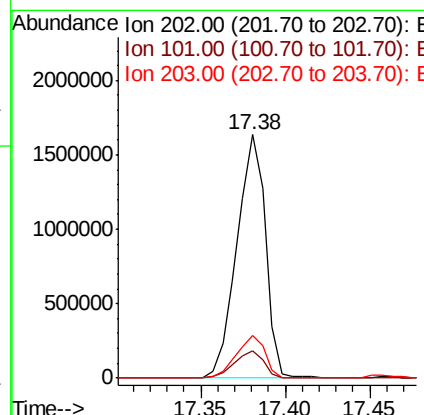
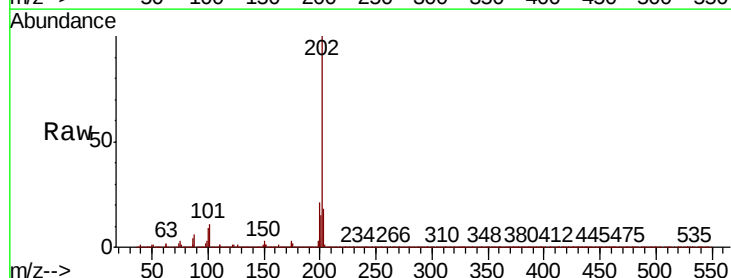
Manual Integrations
 APPROVED

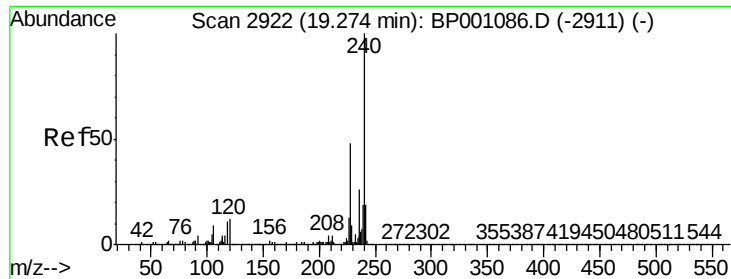
mohammad
 12/4/2019 5:00:14 PM



#75
 Fluoranthene
 Concen: 65.258 ng
 RT: 17.38 min Scan# 2600
 Delta R.T. 0.01 min
 Lab File: BP001140.D
 Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	0.0	32.1
203	17.7	0.0	37.8





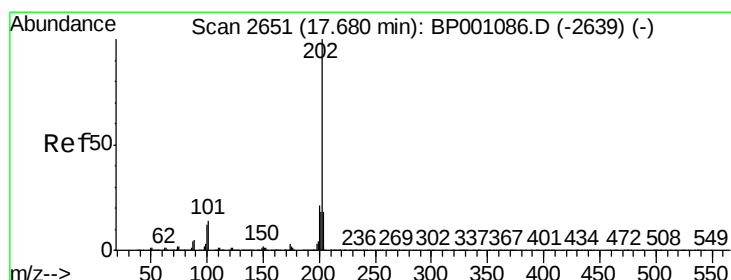
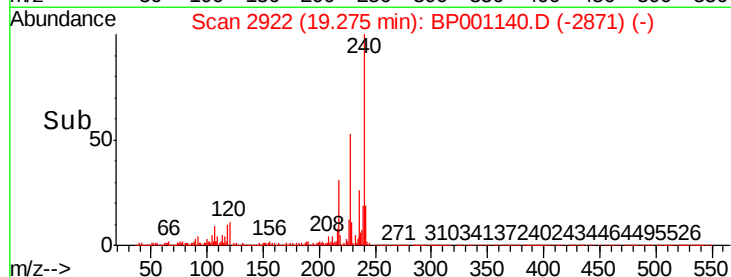
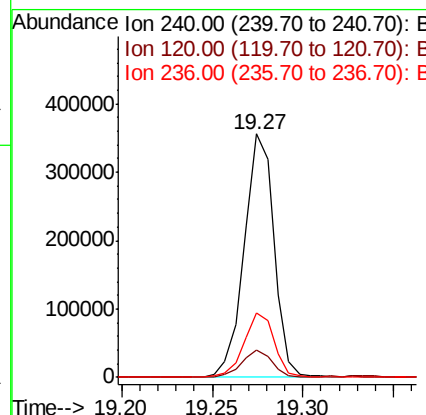
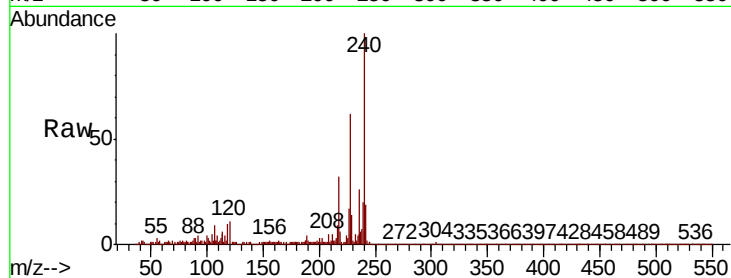
#76
Chrysene-d12
Concen: 20.000 ng
RT: 19.27 min Scan# 2922
Delta R.T. 0.00 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampleId :
RBR-50

Tot Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.5	14.3
236	26.3	20.4	30.6

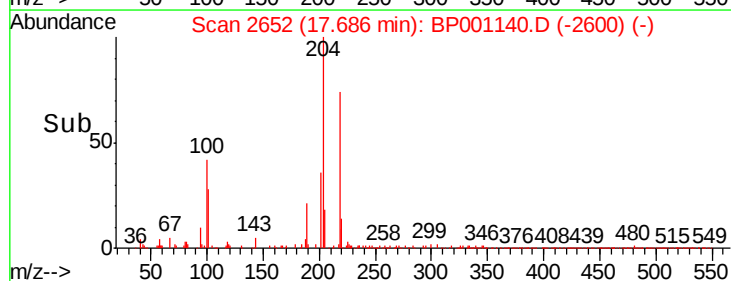
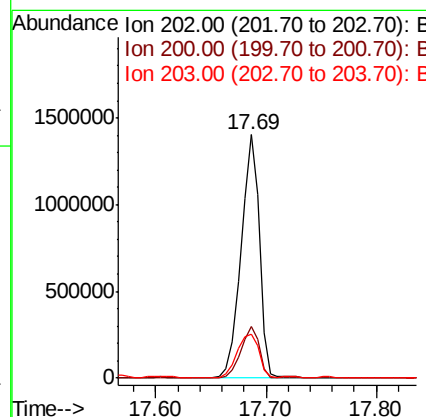
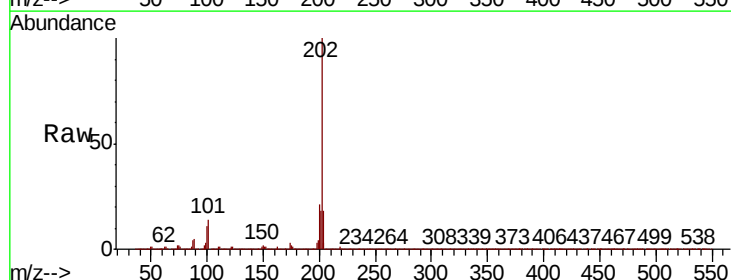
Manual Integrations
APPROVED

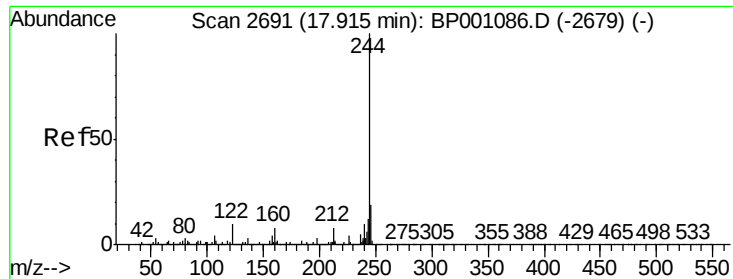
mohammad
12/4/2019 5:00:14 PM



#78
Pyrene
Concen: 51.543 ng
RT: 17.69 min Scan# 2652
Delta R.T. 0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.6
203	18.2	14.1	21.1





#79

Terphenyl-d14

Concen: 12.968 ng

RT: 17.91 min Scan# 2690

Delta R.T. -0.01 min

Lab File: BP001140.D

Acq: 02 Dec 2019 22:12

Instrument :

BNA_P

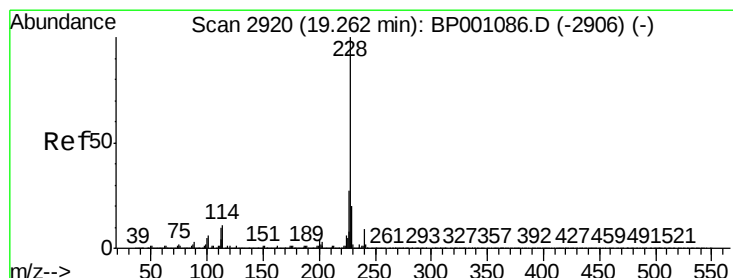
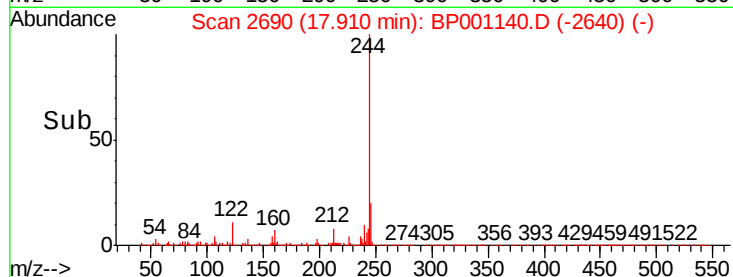
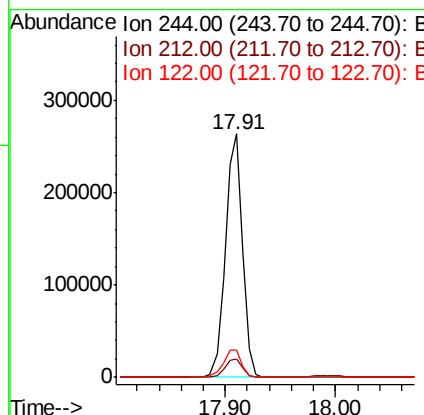
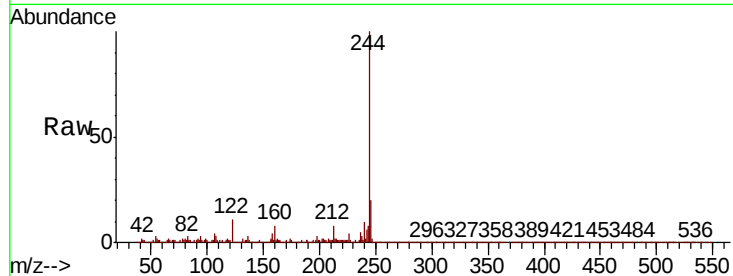
ClientSampleId :

RBR-50

Tot Ion:	244	Resp:	282760
Ion Ratio	Lower	Upper	
244	100		
212	7.7	6.2	9.2
122	11.3	8.2	12.2

Manual Integrations
APPROVED

mohammad
12/4/2019 5:00:14 PM



#81

Benzo(a)anthracene

Concen: 29.255 ng

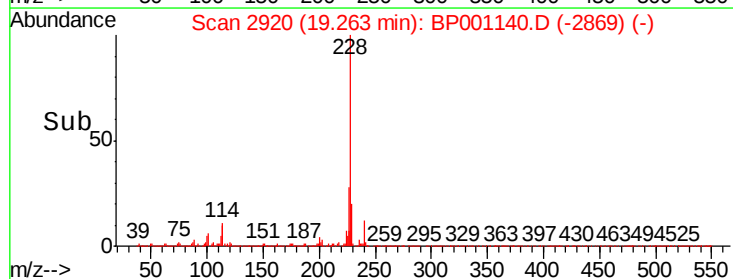
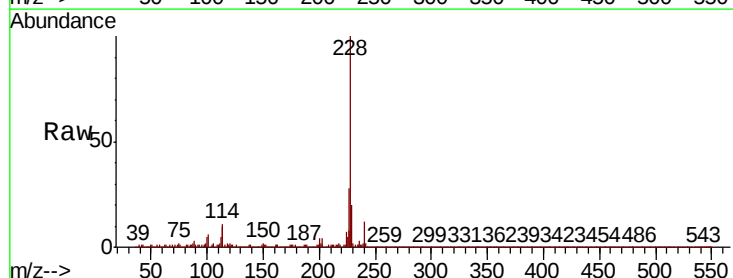
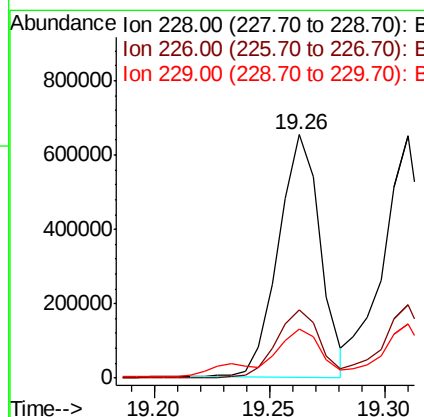
RT: 19.26 min Scan# 2920

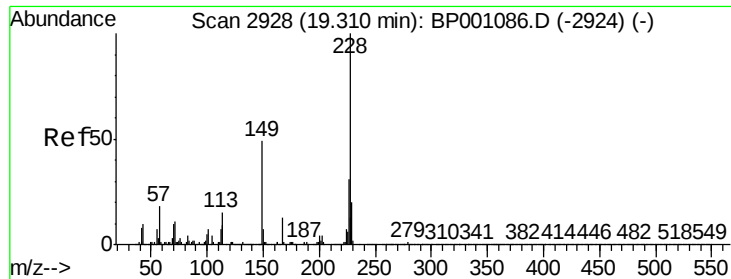
Delta R.T. 0.00 min

Lab File: BP001140.D

Acq: 02 Dec 2019 22:12

Tgt Ion:	228	Resp:	818262
Ion Ratio	Lower	Upper	
228	100		
226	28.3	21.8	32.6
229	20.3	15.8	23.6





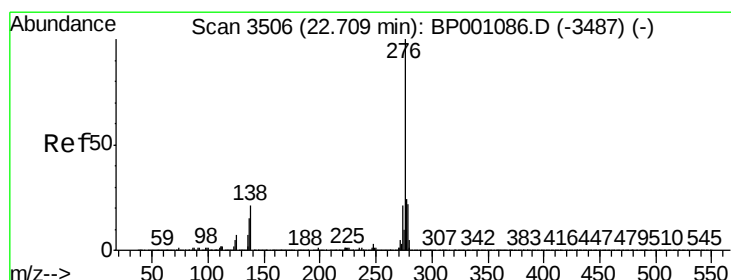
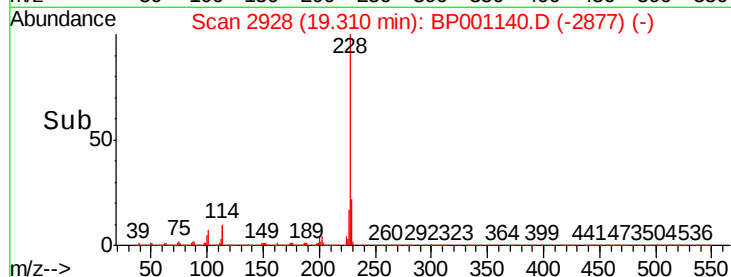
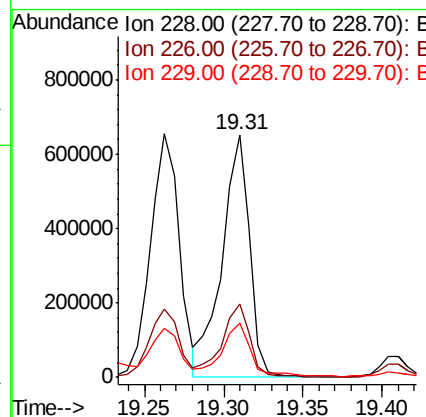
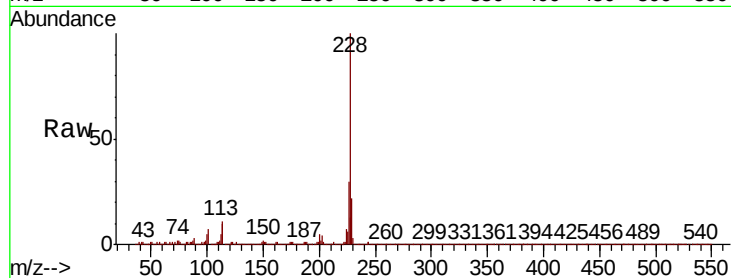
#83
Chrysene
Concen: 31.132 ng
RT: 19.31 min Scan# 2928
Delta R.T. 0.00 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampleId :
RBR-50

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.4	36.6
229	22.4	15.7	23.5

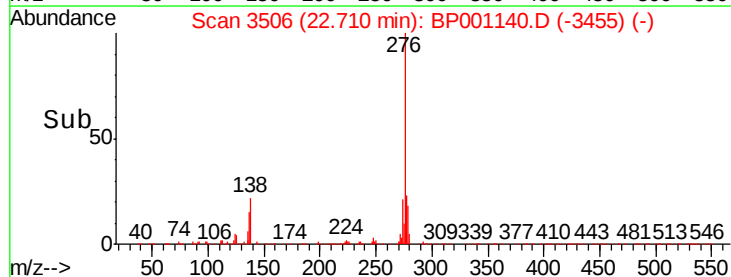
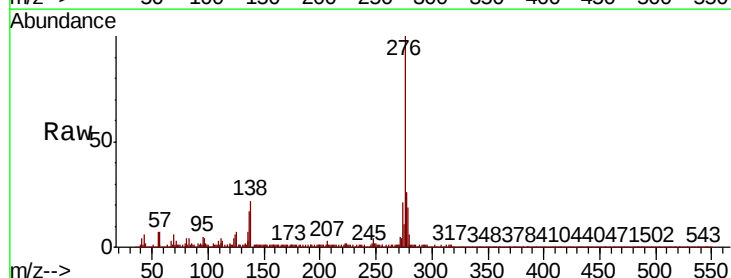
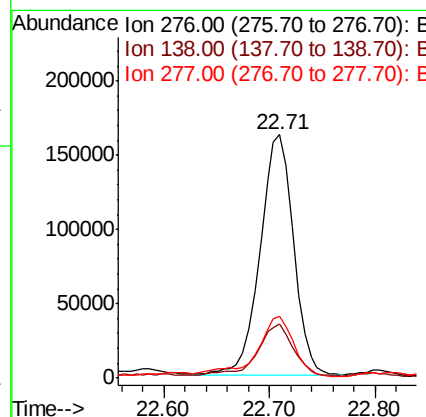
Manual Integrations
APPROVED

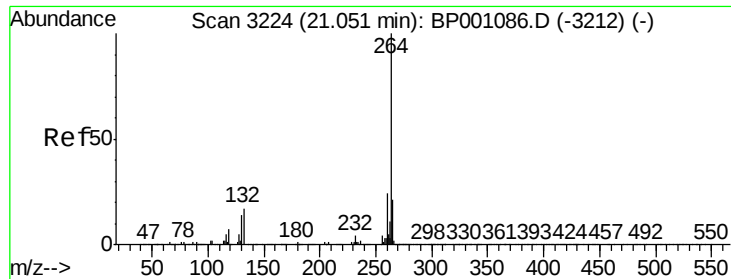
mohammad
12/4/2019 5:00:14 PM



#86
Indeno(1,2,3-cd)pyrene
Concen: 12.078 ng
RT: 22.71 min Scan# 3506
Delta R.T. 0.00 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
276	100		
138	23.2	20.6	30.8
277	27.5	20.0	30.0





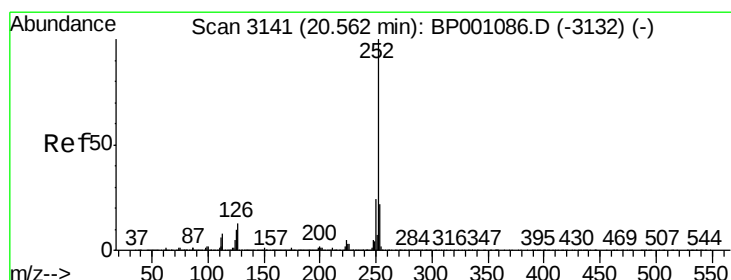
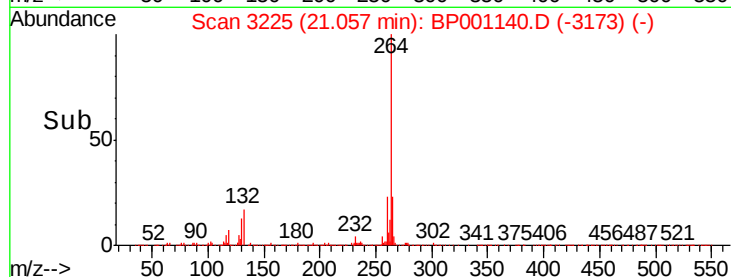
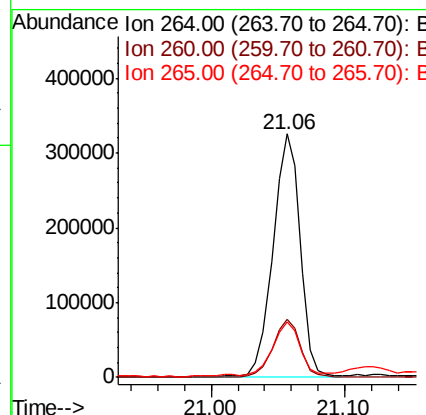
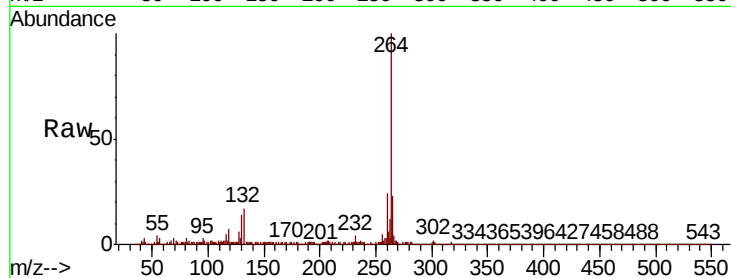
#87
Pervlene-d12
Concen: 20.000 ng
RT: 21.06 min Scan# 3225
Delta R.T. 0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampleId :
RBR-50

Tot Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.8	28.2
265	22.9	16.9	25.3

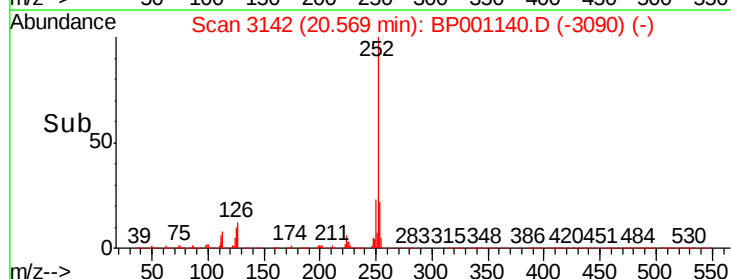
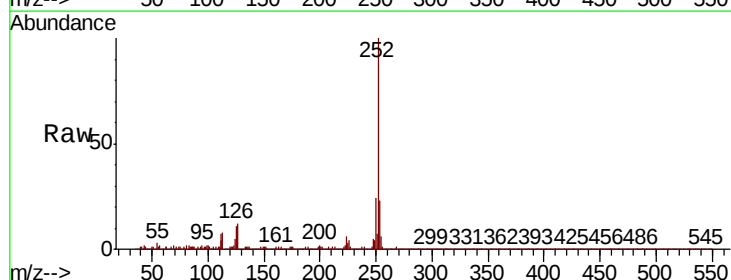
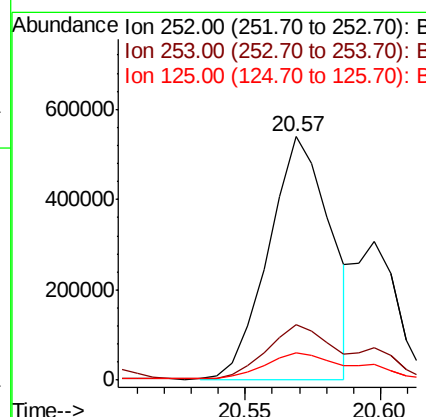
Manual Integrations
APPROVED

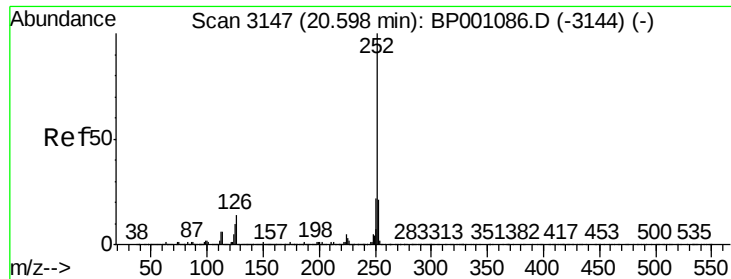
mohammad
12/4/2019 5:00:14 PM



#88
Benzo(b)fluoranthene
Concen: 30.934 ng m
RT: 20.57 min Scan# 3142
Delta R.T. 0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.4	26.0
125	11.1	8.1	12.1





#89

Benzo(k)fluoranthene

Concen: 12.073 ng/mL

RT: 20.60 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BP001140.D

Acq: 02 Dec 2019 22:12

Instrument :

BNA_P

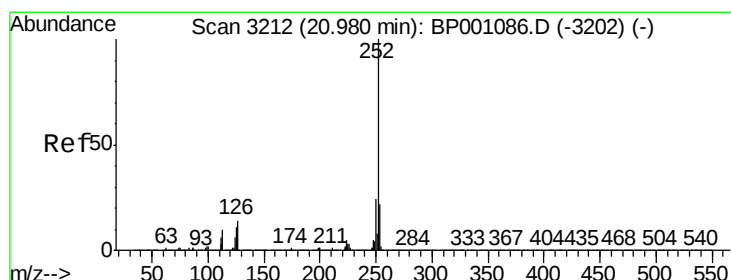
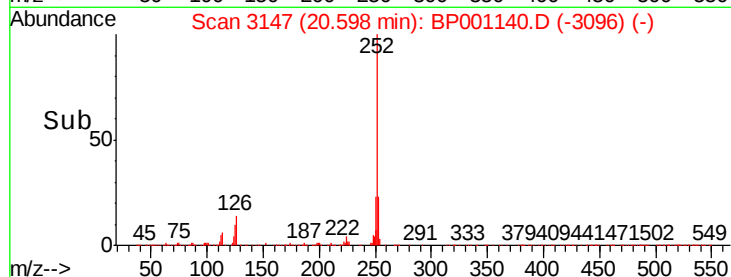
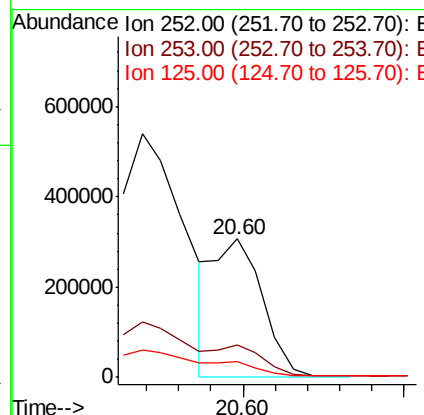
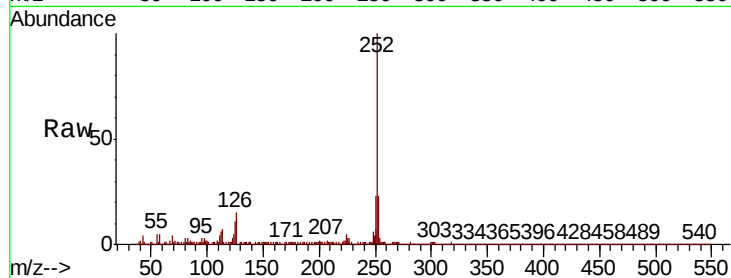
ClientSampled :

RBR-50

Tot Ion:	252	Resp:	325895
Ion Ratio	Lower	Upper	
252	100		
253	23.4	17.1	25.7
125	11.2	8.2	12.2

Manual Integrations
APPROVED

mohammad
12/4/2019 5:00:14 PM



#90

Benzo(a)pyrene

Concen: 23.659 ng/mL

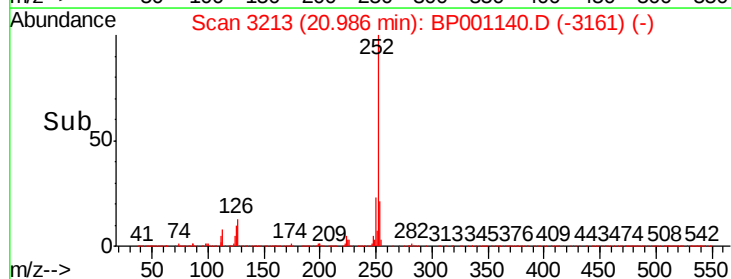
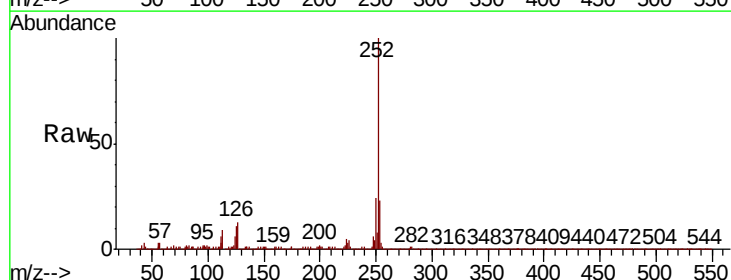
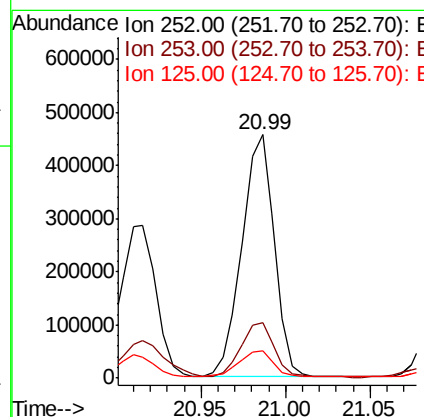
RT: 20.99 min Scan# 3213

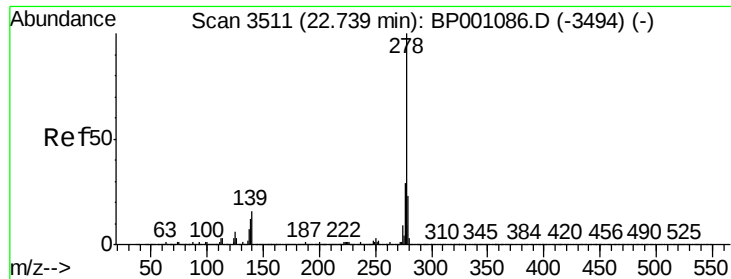
Delta R.T. 0.01 min

Lab File: BP001140.D

Acq: 02 Dec 2019 22:12

Tgt Ion:	252	Resp:	610750
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.4	26.0
125	11.2	8.7	13.1





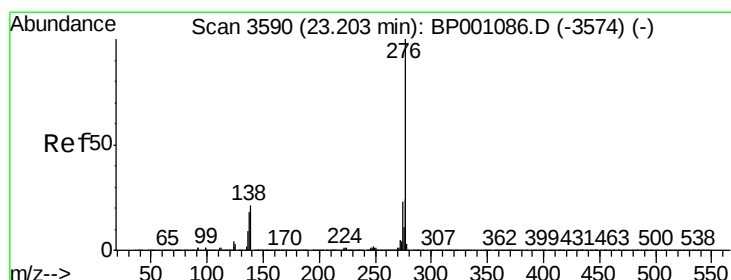
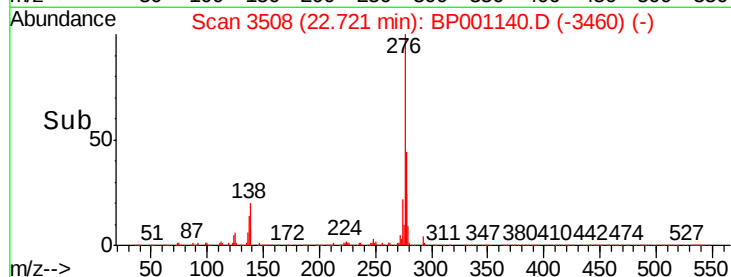
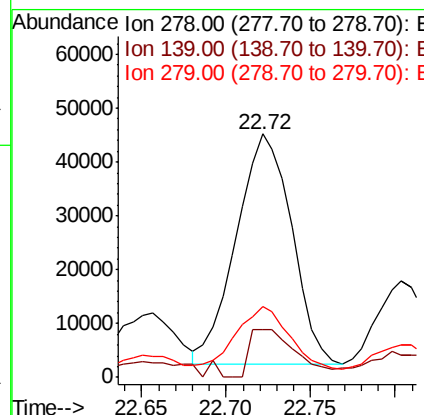
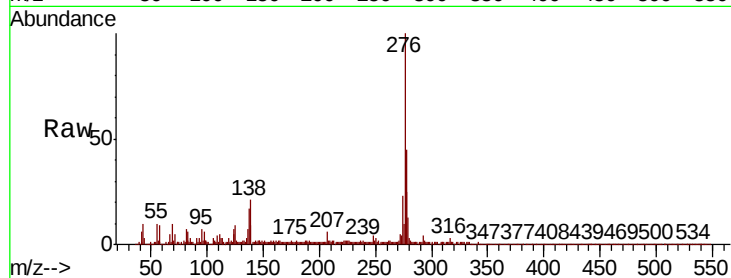
#91
Dibenzo(a,h)anthracene
Concen: 3.854 ng
RT: 22.72 min Scan# 3508
Delta R.T. -0.02 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Instrument :
BNA_P
ClientSampleId :
RBR-50

Tot Ion	Ratio	Lower	Upper
278	100		
139	19.8	13.0	19.4#
279	29.2	18.7	28.1#

Manual Integrations
APPROVED

mohammad
12/4/2019 5:00:14 PM



#92
Benzo(g,h,i)perylene
Concen: 12.767 ng
RT: 23.20 min Scan# 3589
Delta R.T. -0.01 min
Lab File: BP001140.D
Acq: 02 Dec 2019 22:12

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.2	28.8
138	21.8	17.2	25.8

