

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
 Data File : BM022361.D
 Acq On : 27 Aug 2019 10:42
 Operator : HP/JU
 Sample : K4414-07
 Misc :
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 ETJR1

Manual Integrations
 APPROVED

mohammad
 8/28/2019 10:11:49 AM

Quant Time: Aug 27 18:57:12 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue Aug 27 17:04:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	35620	20.00	ng/ul	0.00
18) Naphthalene-d8	10.39	136	247250m	20.00	ng/ul	0.06
35) Acenaphthene-d10	14.20	164	113371	20.00	ng/ul	-0.01
61) Phenanthrene-d10	16.96	188	254412	20.00	ng/ul	-0.01
77) Chrysene-d12	21.17	240	233732	20.00	ng/ul	0.00
85) Perylene-d12	23.37	264	205304	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.13	96	4810m	6.04	ng/uL	0.00
5) Phenol-d5	6.77	99	28742	9.35	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	6.91	67	57025	31.89	ng/ul	0.00
9) 2-Chlorophenol-d4	7.09	132	69965	28.19	ng/ul	0.00
13) 4-Methylphenol-d8	8.27	113	52689	19.78	ng/ul	0.00
19) Nitrobenzene-d5	8.72	128	44432	24.10	ng/ul	0.00
22) 2-Nitrophenol-d4	9.43	143	51900	24.19	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	94241	21.58	ng/ul	0.02
29) 4-Chloroaniline-d4	10.47	131	19380m	3.65	ng/ul	-0.02
43) Dimethylphthalate-d6	13.63	166	349168	34.97	ng/ul	0.00
46) Acenaphthylene-d8	13.89	160	383482	35.66	ng/ul	0.00
51) 4-Nitrophenol-d4	14.50	143	15785m	10.67	ng/ul	0.03
57) Fluorene-d10	15.20	176	302401	36.52	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.38	200	51440	26.20	ng/ul	0.00
70) Anthracene-d10	17.06	188	516736	38.36	ng/ul	-0.01
78) Pyrene-d10	19.37	212	587030	48.32	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.23	264	425411	37.72	ng/ul	0.00

Target Compounds

					Ovalue
6) Phenol	6.80	94	42819	13.008	ng/ul 90
11) 2-Methylphenol	8.02	108	80211	30.942	ng/ul 83
14) Acetophenone	8.38	105	79966	17.361	ng/ul 93
16) 4-Methylphenol	8.33	108	80290	28.170	ng/ul 92
21) Isophorone	9.30	82	185967	18.795	ng/ul 99
24) 2,4-Dimethylphenol	9.57	107	22521m	4.075	ng/ul
28) Naphthalene	10.40	128	52369812m	3838.075	ng/ul
34) 2-Methylnaphthalene	12.00	142	2024522	192.573	ng/ul 96
40) 1,1'-Biphenyl	13.02	154	345511	37.448	ng/ul 99
44) Dimethylphthalate	13.67	163	21296	2.096	ng/ul# 98
47) Acenaphthylene	13.93	152	1342508	120.393	ng/ul 99
49) Acenaphthene	14.26	153	84188	10.634	ng/ul 98
53) Dibenzofuran	14.60	168	18948	1.607	ng/ul 89
58) Fluorene	15.26	166	421557	42.445	ng/ul 100
69) Phenanthrene	17.02	178	2913136	191.401	ng/ul 99
71) Anthracene	17.10	178	509786	32.187	ng/ul 99
74) Carbazole	17.39	167	89485	6.255	ng/ul 99
76) Fluoranthene	19.04	202	1002341	43.702	ng/ul# 97
79) Pyrene	19.41	202	1625663m	107.456	ng/ul
82) Benzo(a)anthracene	21.16	228	326516m	18.561	ng/ul
84) Chrysene	21.21	228	238275	14.486	ng/ul 97
87) Benzo(b)fluoranthene	22.72	252	196401	13.752	ng/ul 100
88) Benzo(k)fluoranthene	22.75	252	65221m	4.709	ng/ul

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022361.D
Acq On : 27 Aug 2019 10:42
Operator : HP/JU
Sample : K4414-07
Misc :
ALS Vial : 39 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
ETJR1

Manual Integrations
APPROVED

mohammad
8/28/2019 10:11:49 AM

Quant Time: Aug 27 18:57:12 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 27 17:04:34 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
90) Benzo(a)pyrene	23.27	252	257921	18.947	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.55	276	107897	6.826	ng/ul#	94
92) Dibenzo(a,h)anthracene	25.56	278	21613	1.611	ng/ul#	92
93) Benzo(g,h,i)perylene	26.22	276	135575	11.243	ng/ul	98

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

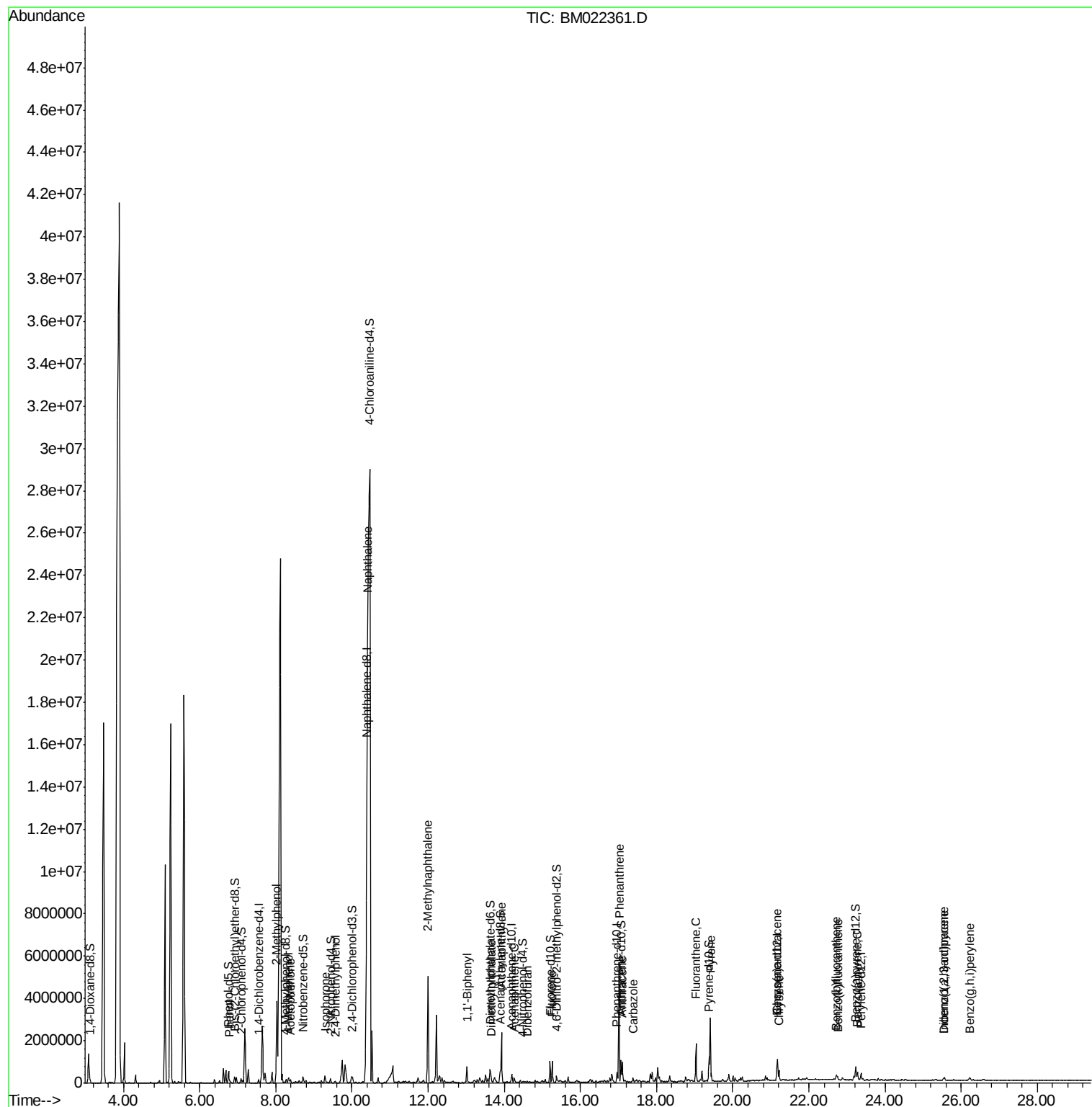
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM082619\
Data File : BM022361.D
Acq On : 27 Aug 2019 10:42
Operator : HP/JU
Sample : K4414-07
Misc :
ALS Vial : 39 Sample Multiplier: 1

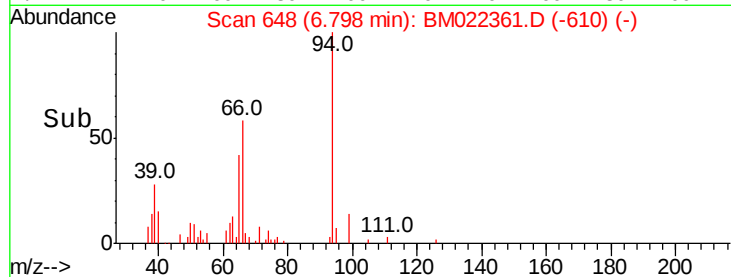
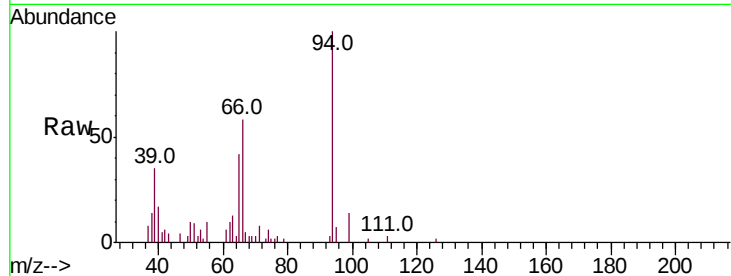
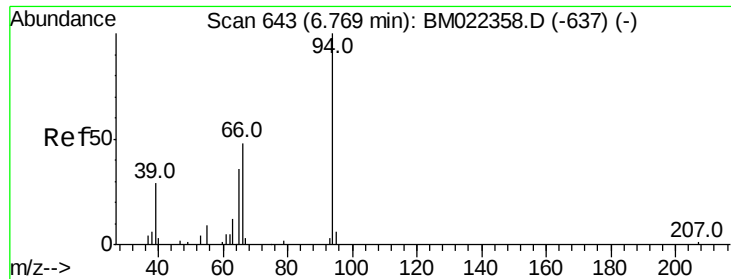
Instrument :
BNA_M
ClientSampleId :
ETJR1

Quant Time: Aug 27 18:57:12 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM082219MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Aug 27 17:04:34 2019
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
8/28/2019 10:11:49 AM





#6

Phenol

Concen: 13.008 ng/ul

RT: 6.80 min Scan# 648

Delta R.T. 0.02 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

Instrument :

BNA_M

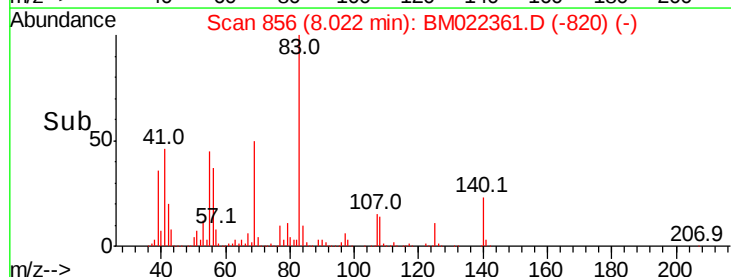
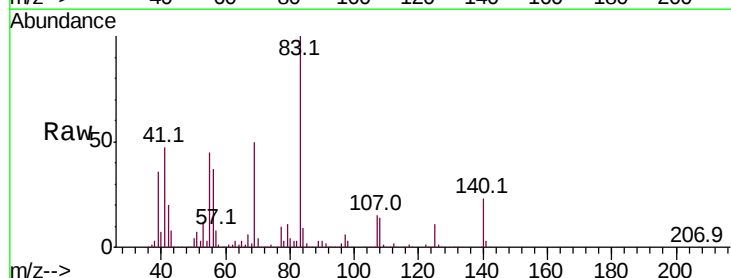
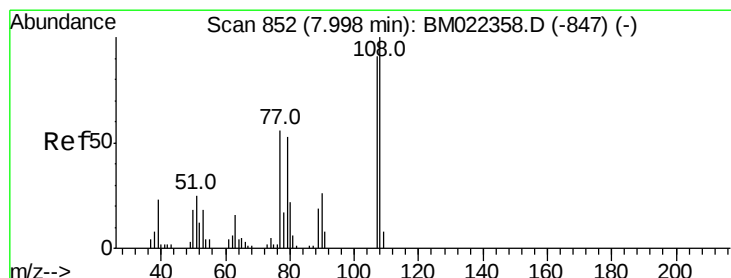
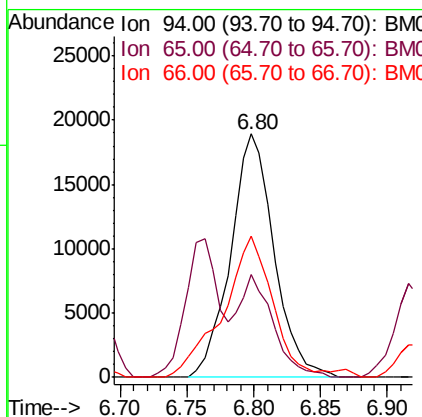
ClientSampled :

ETJR1

Tot Ion:	94	Resp:	42819
Ion	Ratio	Lower	Upper
94	100		
65	42.3	29.2	43.8
66	57.9	40.6	60.8

Manual Integrations
APPROVED

mohammad
8/28/2019 10:11:49 AM



#11

2-Methylphenol

Concen: 30.942 ng/ul

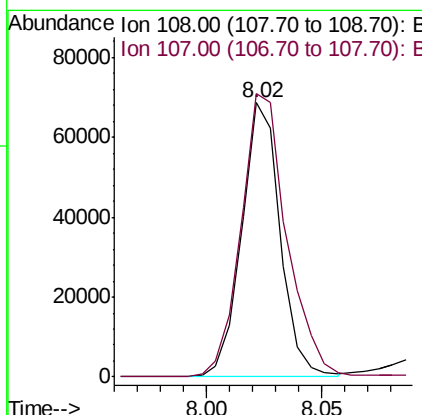
RT: 8.02 min Scan# 856

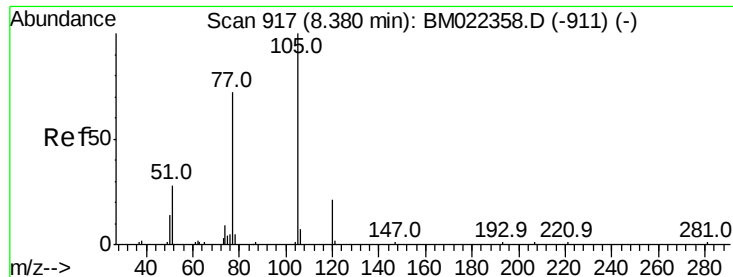
Delta R.T. 0.01 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

Tgt Ion:	108	Resp:	80211
Ion	Ratio	Lower	Upper
108	100		
107	103.2	70.1	105.1





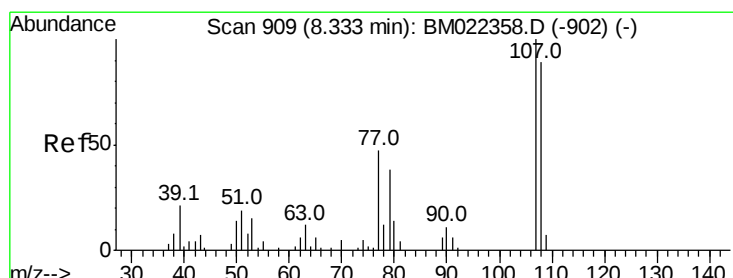
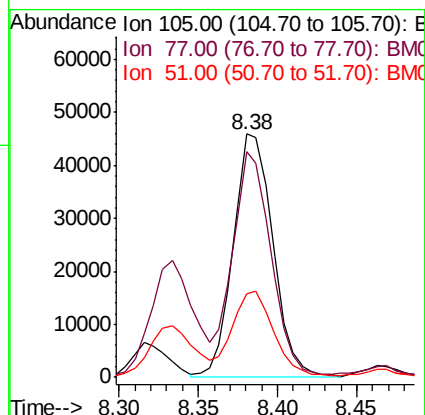
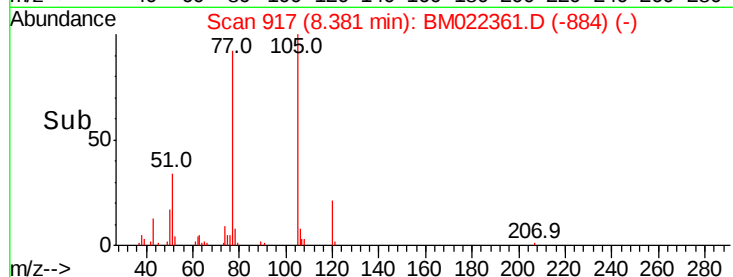
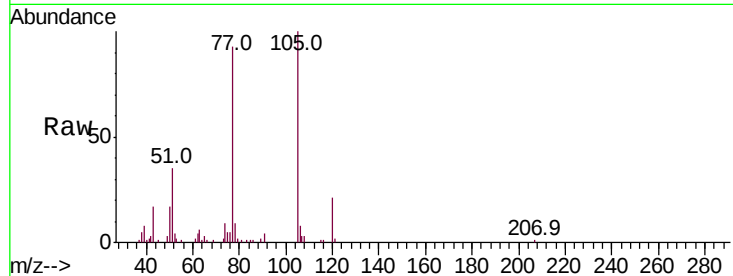
#14
Acetophenone
Concen: 17.361 ng/ul
RT: 8.38 min Scan# 917
Delta R.T. -0.01 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Instrument :
BNA_M
ClientSampleId :
ETJR1

Tot Ion:	105	Resp:	79966
Ion Ratio	Lower	Upper	
105	100		
77	92.6	68.4	102.6
51	34.6	25.0	37.4

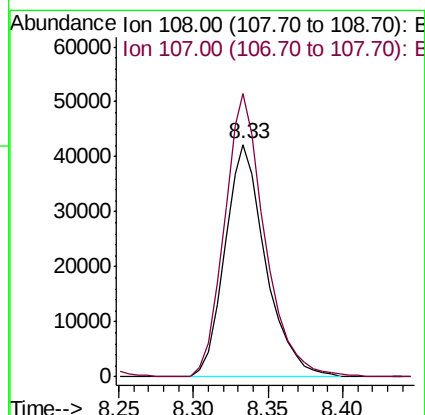
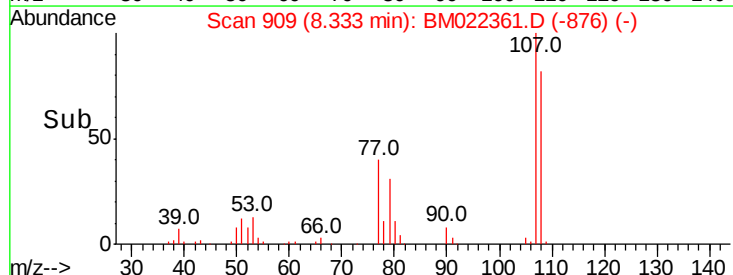
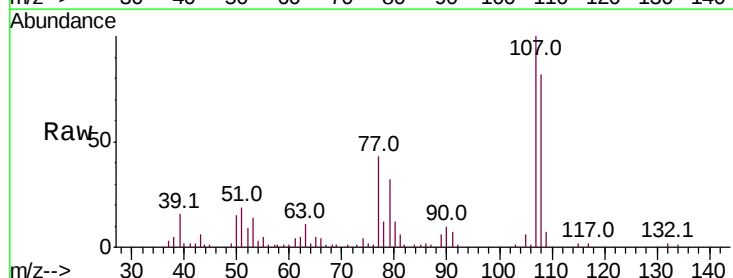
Manual Integrations
APPROVED

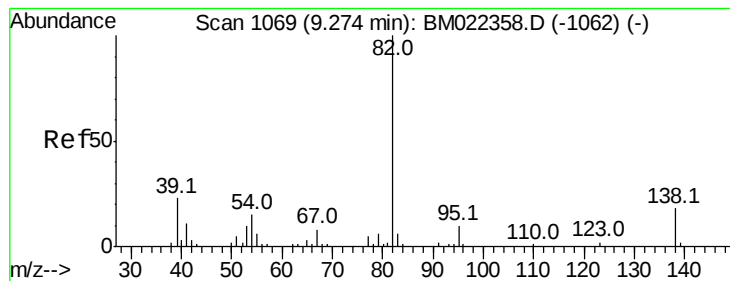
mohammad
8/28/2019 10:11:49 AM



#16
4-Methylphenol
Concen: 28.170 ng/ul
RT: 8.33 min Scan# 909
Delta R.T. -0.01 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Tgt Ion:	108	Resp:	80290
Ion Ratio	Lower	Upper	
108	100		
107	121.9	90.8	136.2





#21

Isophorone

Concen: 18.795 ng/ul

RT: 9.30 min Scan# 1073

Delta R.T. 0.02 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

Instrument :

BNA_M

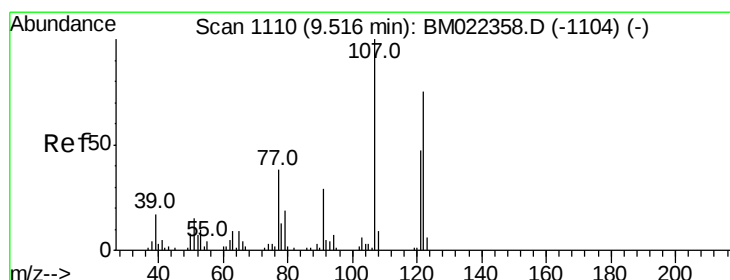
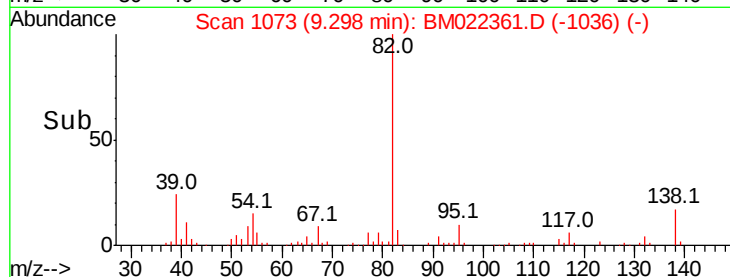
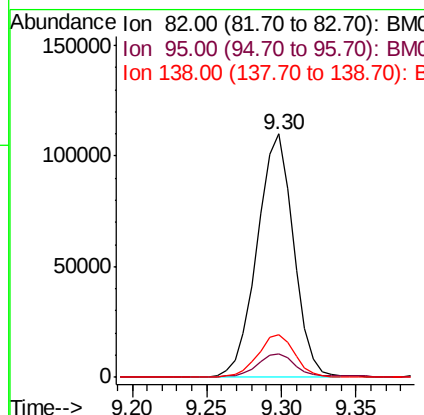
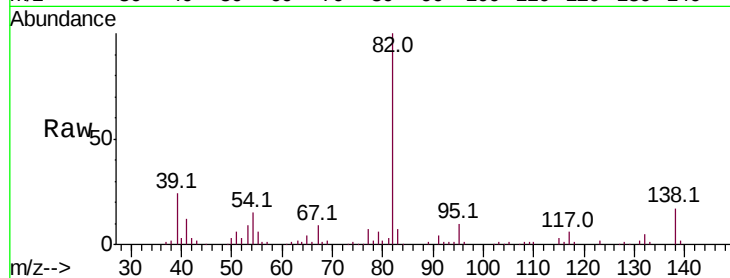
ClientSampleId :

ETJR1

Tot Ion:	82	Resp:	185967
Ion Ratio	Lower	Upper	
82	100		
95	9.8	7.2	10.8
138	17.5	13.8	20.6

Manual Integrations
APPROVED

mohammad
8/28/2019 10:11:49 AM



#24

2,4-Dimethylphenol

Concen: 4.075 ng/ul m

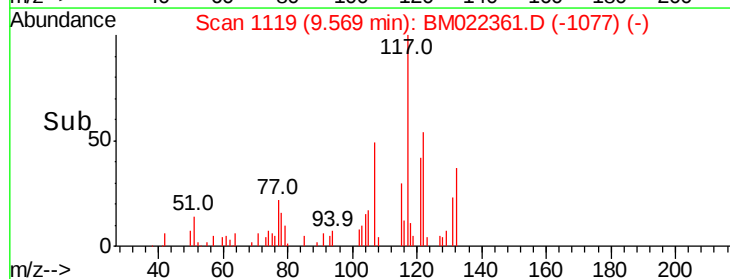
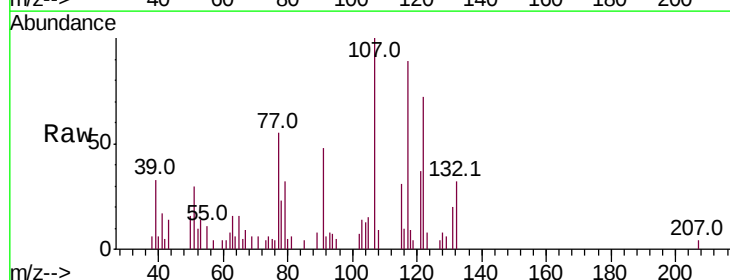
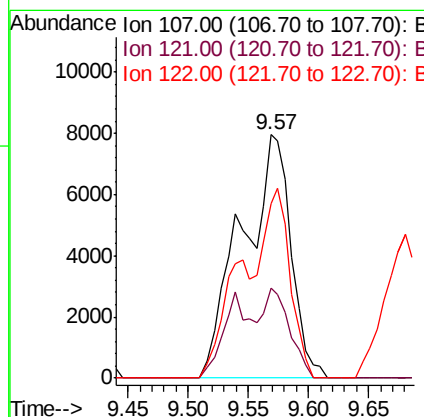
RT: 9.57 min Scan# 1119

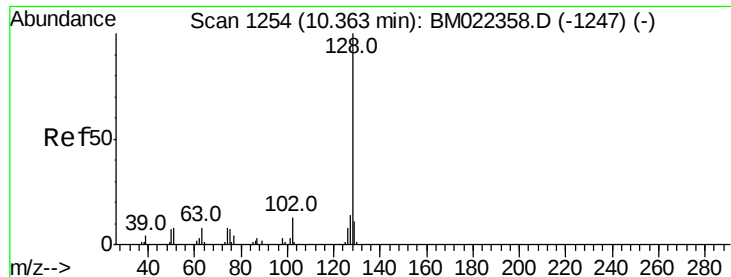
Delta R.T. 0.05 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

Tgt Ion:	107	Resp:	22521
Ion Ratio	Lower	Upper	
107	100		
121	37.0	33.6	50.4
122	71.8	58.0	87.0





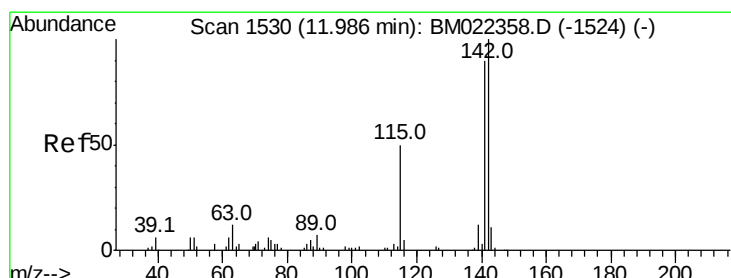
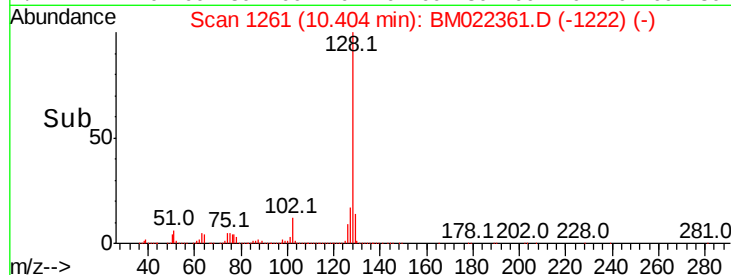
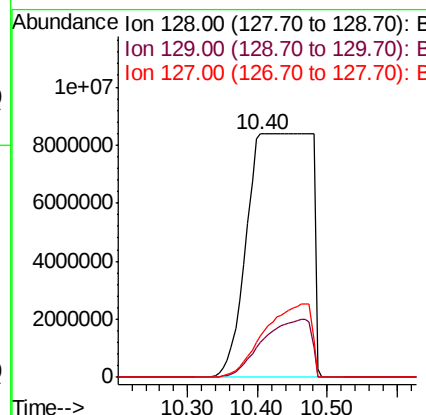
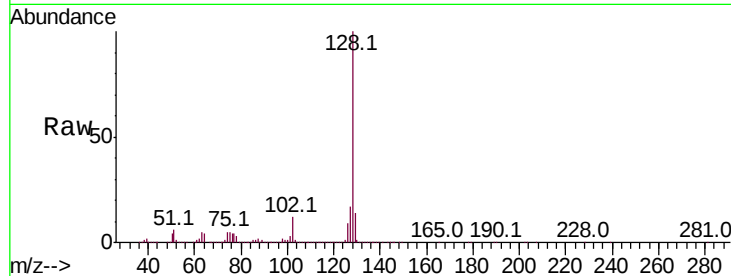
#28
Naphthalene
Concen: 3838.075 ng/ul m
RT: 10.40 min Scan# 1261
Delta R.T. 0.03 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Instrument :
BNA_M
ClientSampled :
ETJR1

Tot Ion:128 Resp:52369812
Ion Ratio Lower Upper
128 100
129 14.2 8.6 13.0#
127 16.9 10.4 15.6#

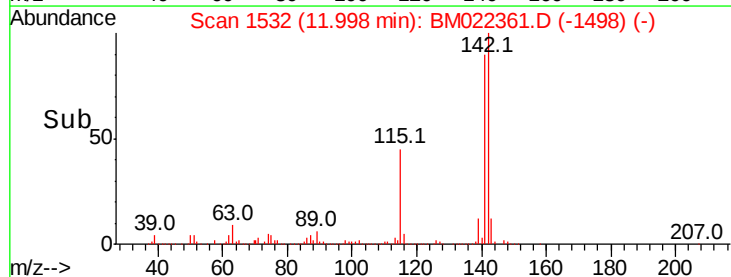
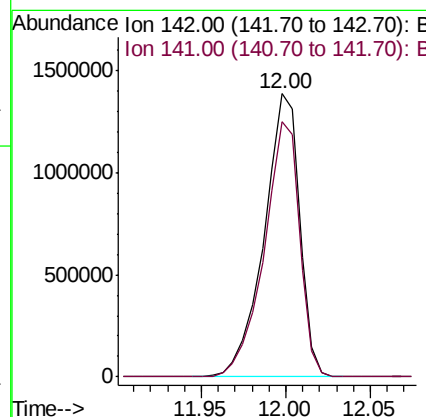
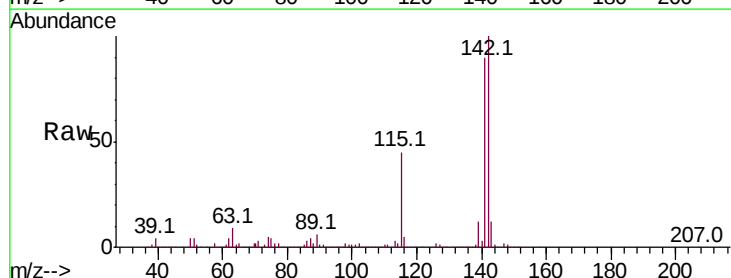
Manual Integrations
APPROVED

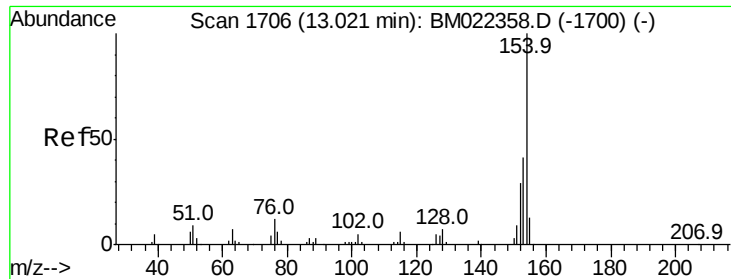
mohammad
8/28/2019 10:11:49 AM



#34
2-Methylnaphthalene
Concen: 192.573 ng/ul
RT: 12.00 min Scan# 1532
Delta R.T. -0.00 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Tgt Ion:142 Resp: 2024522
Ion Ratio Lower Upper
142 100
141 90.4 75.1 112.7





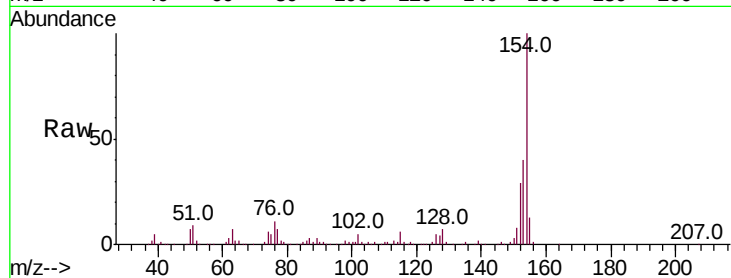
#40
 1,1'-Biphenyl
 Concen: 37.448 ng/ul
 RT: 13.02 min Scan# 1706
 Delta R.T. -0.01 min
 Lab File: BM022361.D
 Acq: 27 Aug 2019 10:42

Instrument :
 BNA_M
 ClientSampleId :
 ETJR1

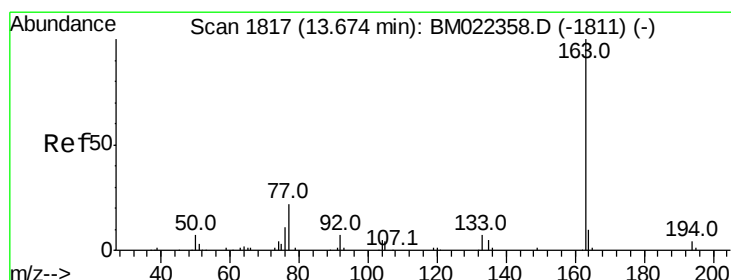
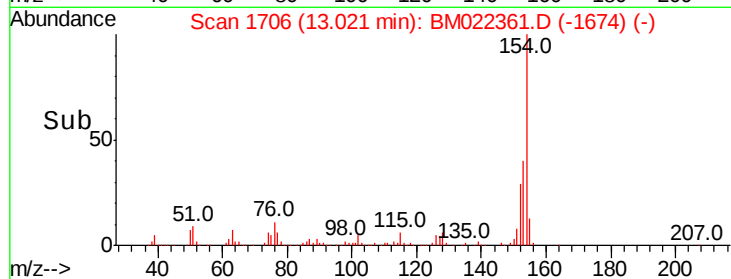
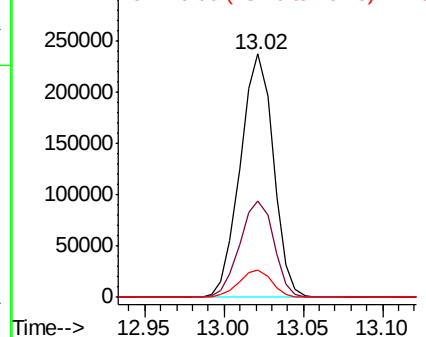
Tot Ion:	154	Resp:	345511
Ion Ratio	Lower	Upper	
154	100		
153	39.9	32.5	48.7
76	11.3	9.2	13.8

Manual Integrations
 APPROVED

mohammad
 8/28/2019 10:11:49 AM

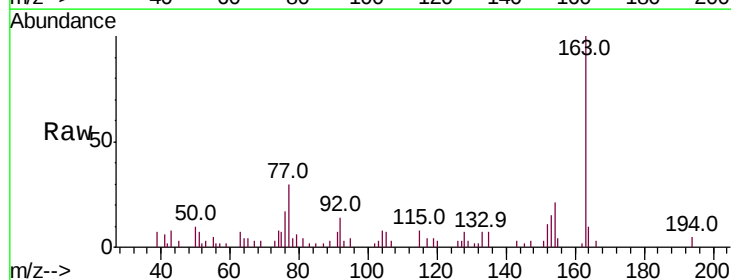


Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BM

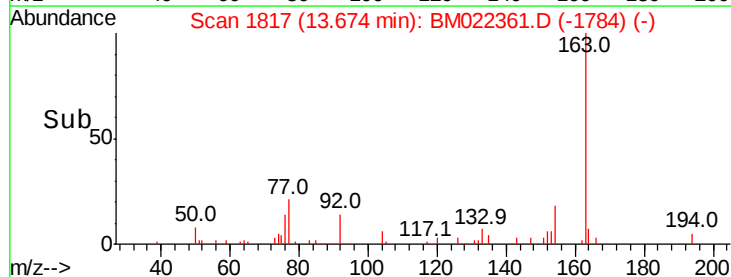
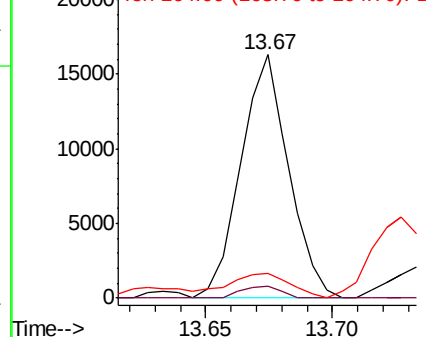


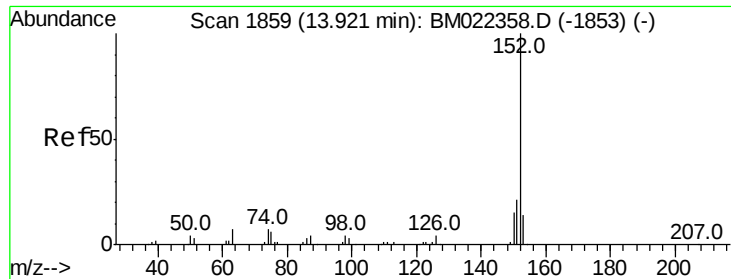
#44
 Dimethylphthalate
 Concen: 2.096 ng/ul
 RT: 13.67 min Scan# 1817
 Delta R.T. -0.01 min
 Lab File: BM022361.D
 Acq: 27 Aug 2019 10:42

Tgt Ion:	163	Resp:	21296
Ion Ratio	Lower	Upper	
163	100		
194	5.2	3.0	4.6#
164	10.2	7.8	11.8



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





#47

Acenaphthylene

Concen: 120.393 ng/ul

RT: 13.93 min Scan# 1860

Delta R.T. -0.00 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

Instrument :

BNA_M

ClientSampled :

ETJR1

Tot Ion:152 Resp: 1342508

Ion Ratio Lower Upper

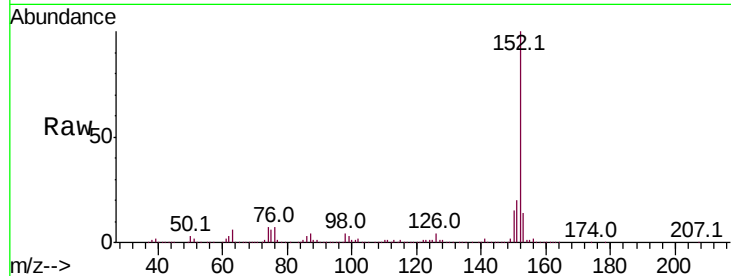
152 100

151 20.2 16.0 24.0

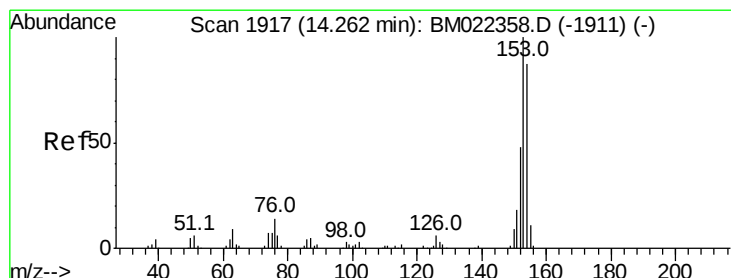
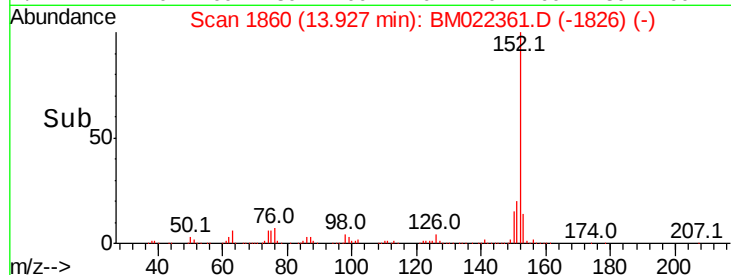
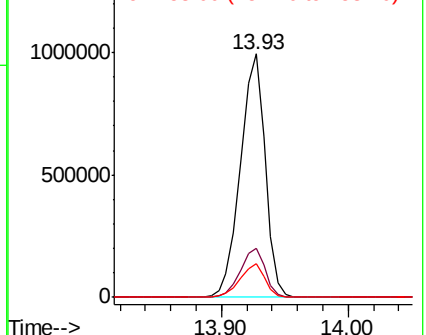
153 13.6 10.4 15.6

Manual Integrations
APPROVED

mohammad
8/28/2019 10:11:49 AM



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



#49

Acenaphthene

Concen: 10.634 ng/ul

RT: 14.26 min Scan# 1917

Delta R.T. -0.01 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

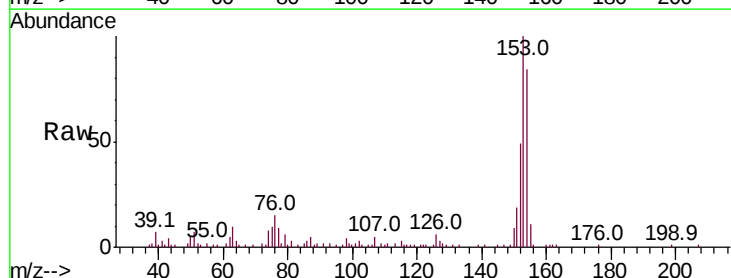
Tgt Ion:153 Resp: 84188

Ion Ratio Lower Upper

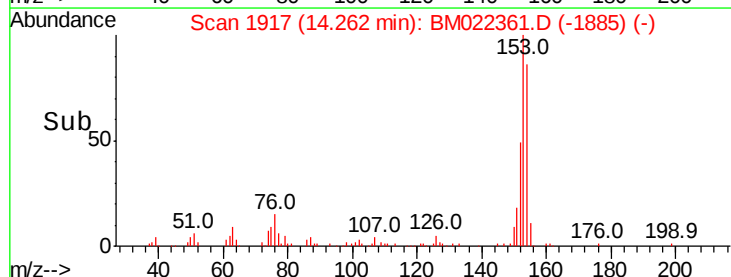
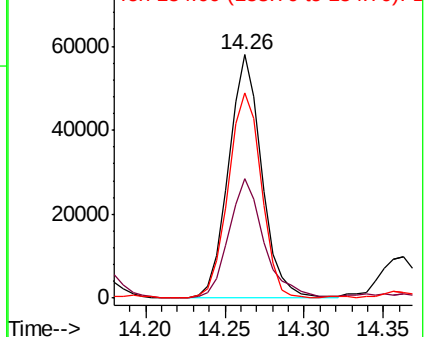
153 100

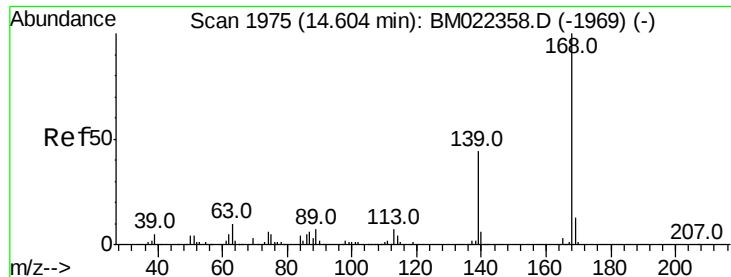
152 49.0 38.6 58.0

154 84.2 68.9 103.3



Abundance Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E
Ion 154.00 (153.70 to 154.70): E





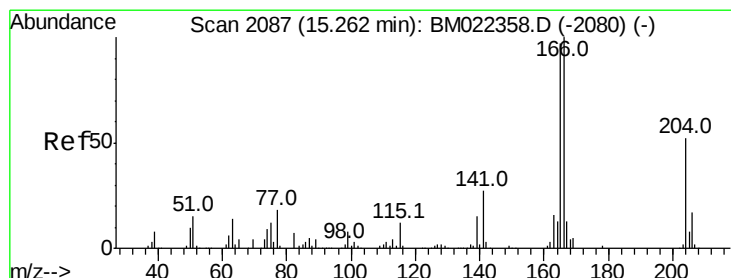
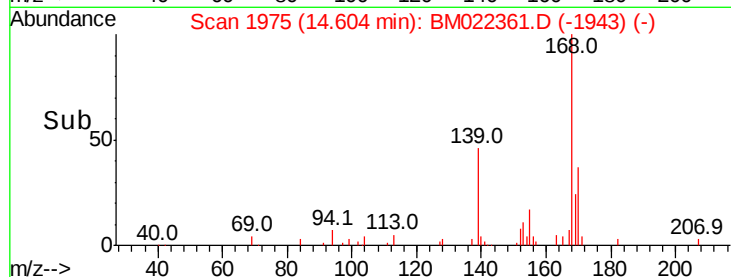
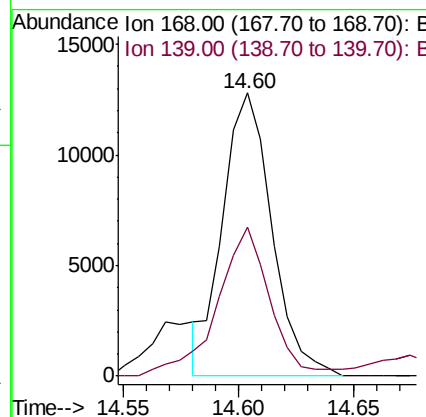
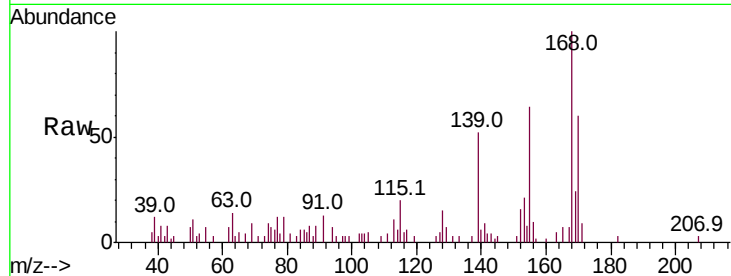
#53
Dibenzenofuran
Concen: 1.607 ng/ul
RT: 14.60 min Scan# 1975
Delta R.T. -0.01 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Instrument :
BNA_M
ClientSampled :
ETJR1

Tot Ion	Ratio	Lower	Upper
168	100		
139	52.4	36.2	54.4

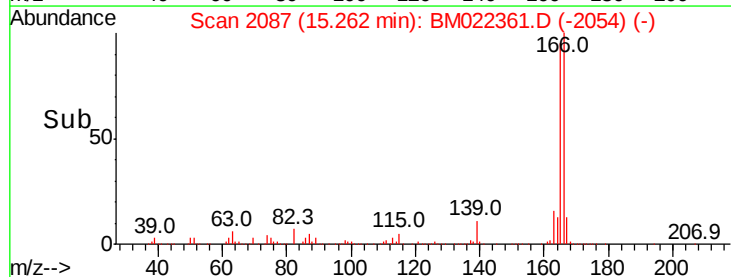
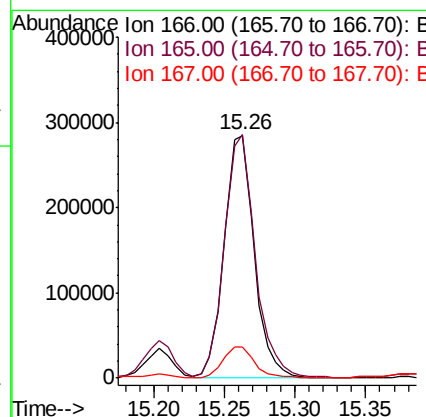
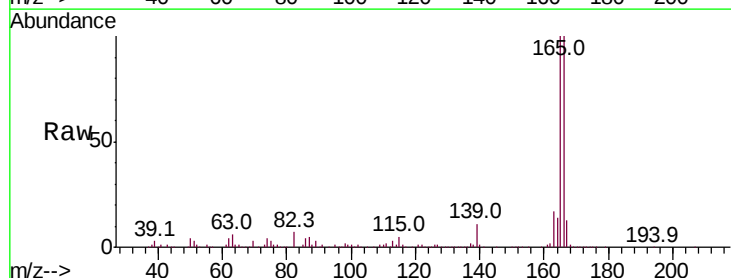
Manual Integrations
APPROVED

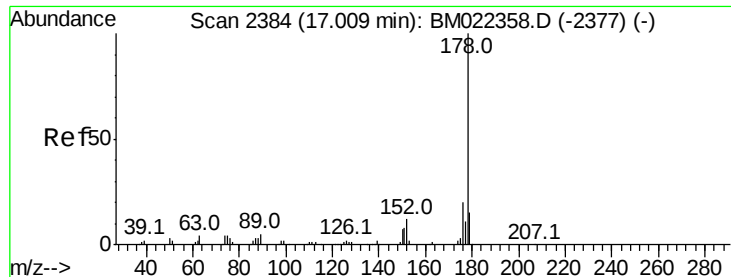
mohammad
8/28/2019 10:11:49 AM



#58
Fluorene
Concen: 42.445 ng/ul
RT: 15.26 min Scan# 2087
Delta R.T. -0.01 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.2	80.2	120.2
167	12.9	11.4	17.0





#69

Phenanthrene

Concen: 191.401 ng/ul

RT: 17.02 min Scan# 2385

Delta R.T. -0.00 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

Instrument :

BNA_M

ClientSampleId :

ETJR1

Tot Ion:178 Resp: 2913136

Ion Ratio Lower Upper

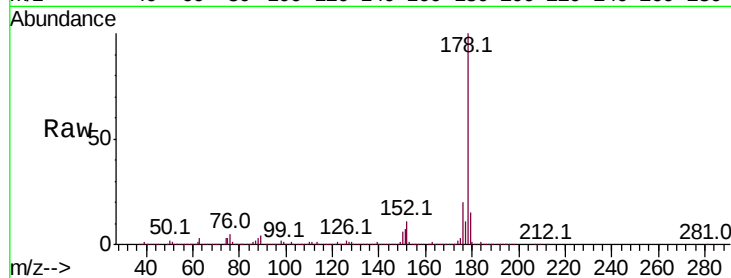
178 100

179 15.4 12.4 18.6

176 19.6 15.4 23.0

Manual Integrations
APPROVED

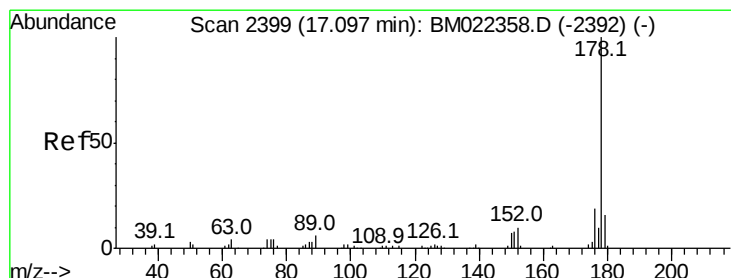
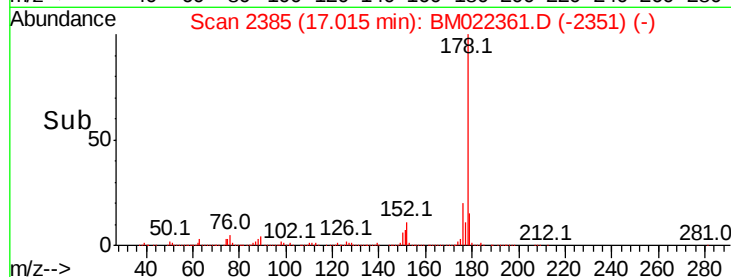
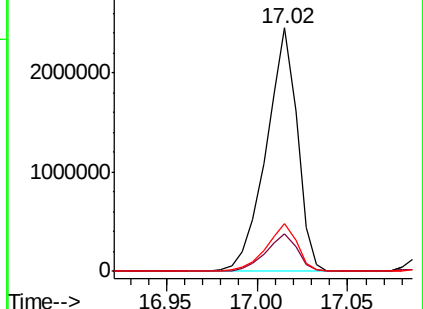
mohammad
8/28/2019 10:11:49 AM



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 32.187 ng/ul

RT: 17.10 min Scan# 2399

Delta R.T. -0.01 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

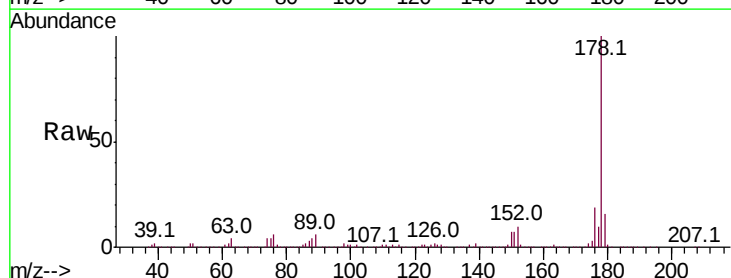
Tgt Ion:178 Resp: 509786

Ion Ratio Lower Upper

178 100

179 15.8 12.3 18.5

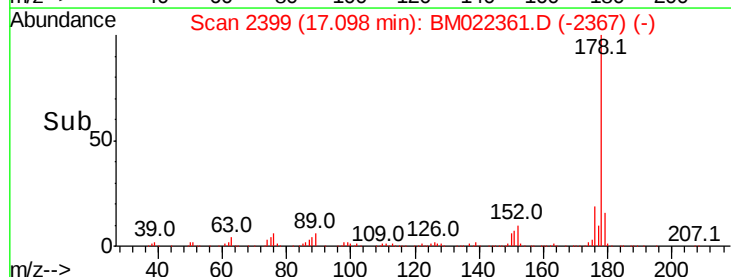
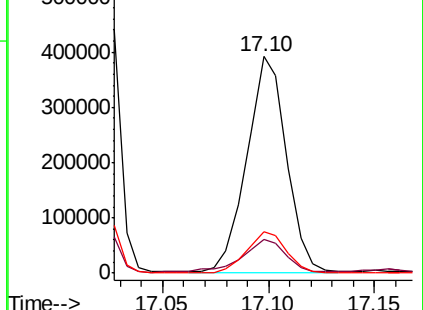
176 19.0 15.5 23.3

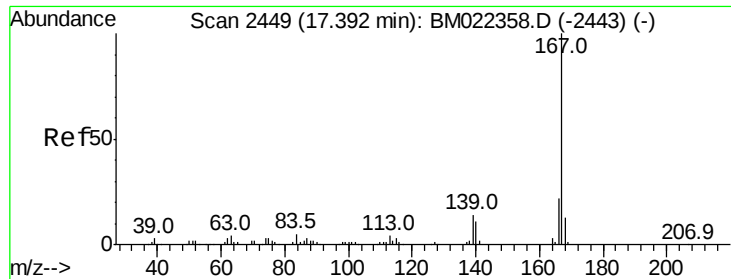


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





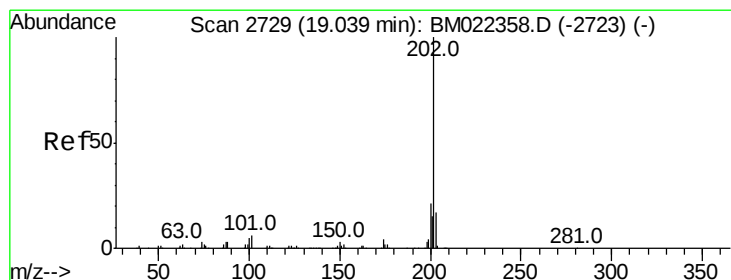
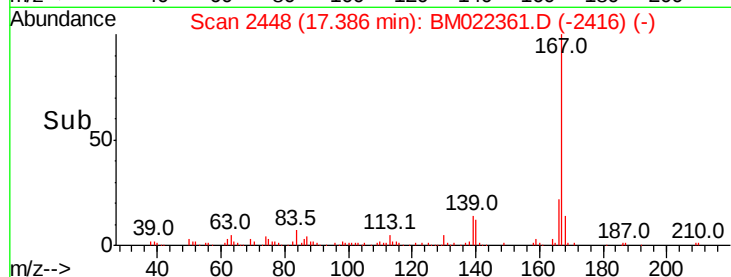
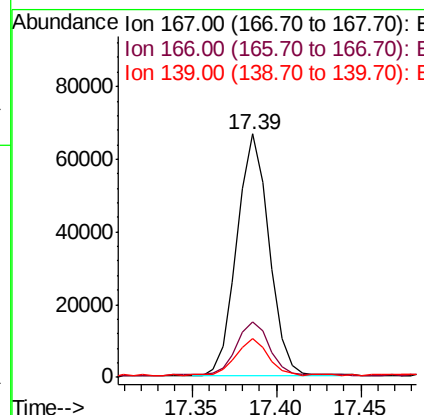
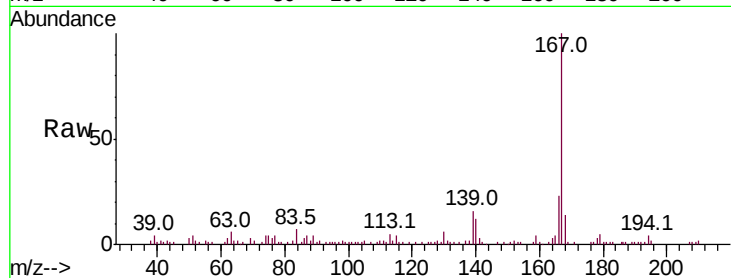
#74
 Carbazole
 Concen: 6.255 ng/ul
 RT: 17.39 min Scan# 2448
 Delta R.T. -0.01 min
 Lab File: BM022361.D
 Acq: 27 Aug 2019 10:42

Instrument :
 BNA_M
 ClientSampleId :
 ETJR1

Tot Ion	Ratio	Lower	Upper
167	100		
166	22.5	17.8	26.8
139	15.8	11.8	17.8

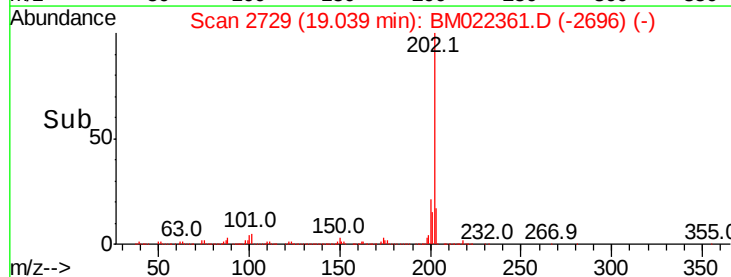
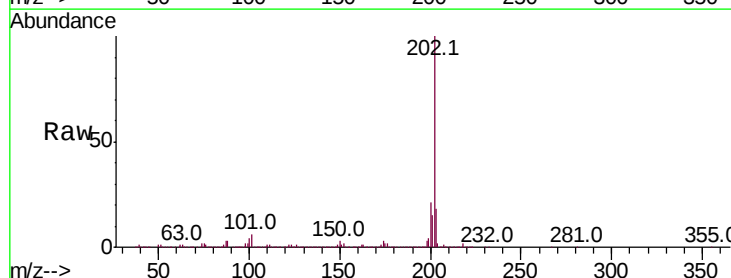
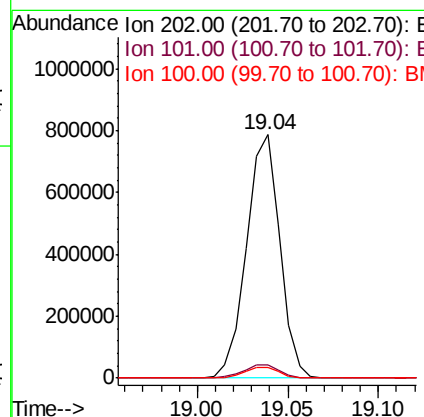
Manual Integrations
 APPROVED

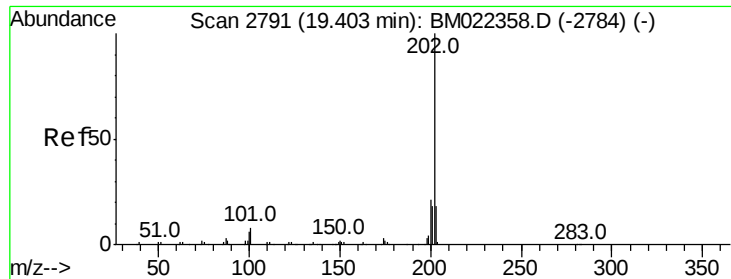
mohammad
 8/28/2019 10:11:49 AM



#76
 Fluoranthene
 Concen: 43.702 ng/ul
 RT: 19.04 min Scan# 2729
 Delta R.T. -0.01 min
 Lab File: BM022361.D
 Acq: 27 Aug 2019 10:42

Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.5	5.3	7.9
100	4.5	4.6	6.8#





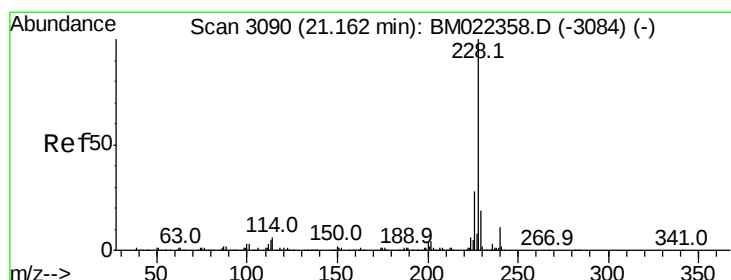
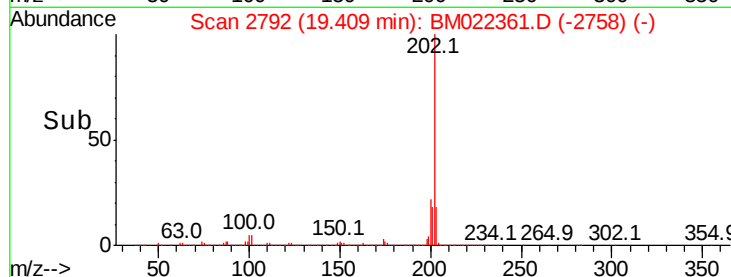
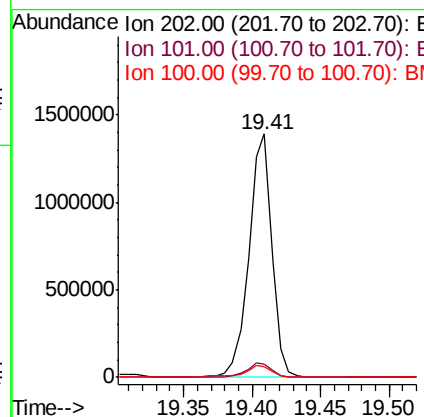
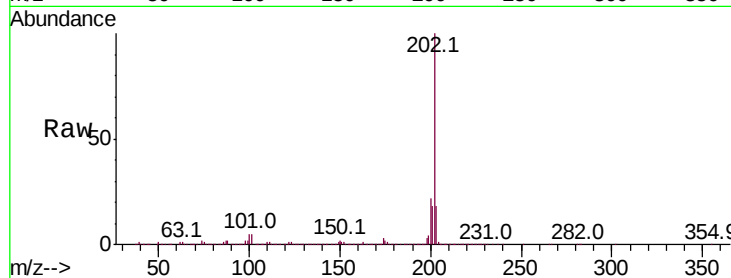
#79
Pvrene
Concen: 107.456 ng/ul m
RT: 19.41 min Scan# 2792
Delta R.T. -0.00 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Instrument :
BNA_M
ClientSampleId :
ETJR1

Tot Ion:202 Resp: 1625663
Ion Ratio Lower Upper
202 100
101 5.5 7.0 10.4#
100 4.5 5.8 8.8#

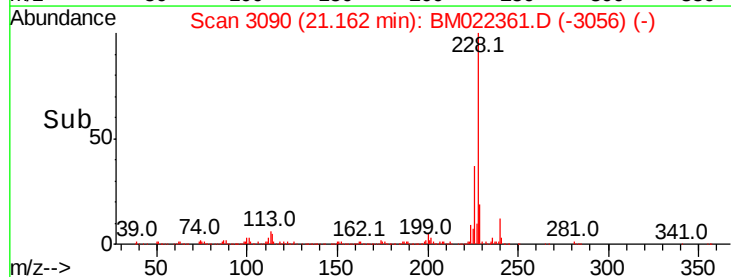
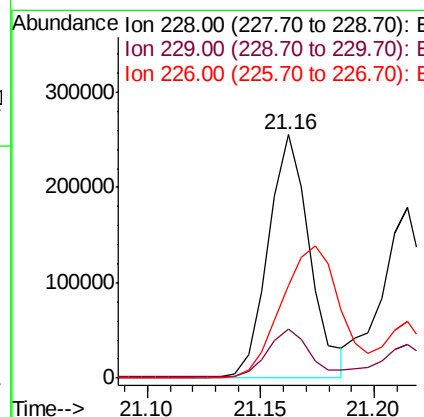
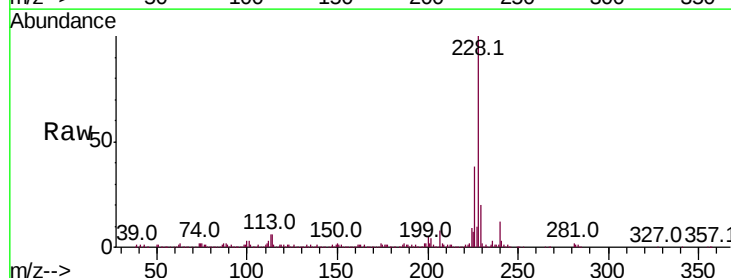
Manual Integrations
APPROVED

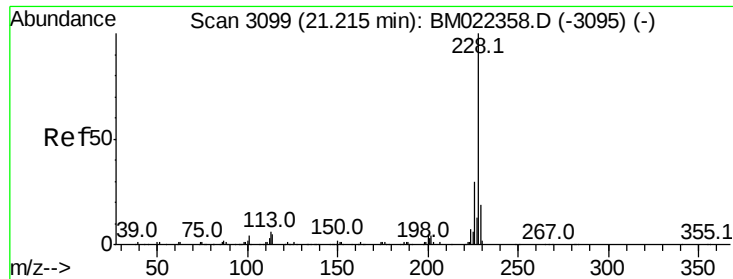
mohammad
8/28/2019 10:11:49 AM



#82
Benzo(a)anthracene
Concen: 18.561 ng/ul m
RT: 21.16 min Scan# 3090
Delta R.T. -0.00 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Tgt Ion:228 Resp: 326516
Ion Ratio Lower Upper
228 100
229 20.0 15.2 22.8
226 37.8 22.3 33.5#





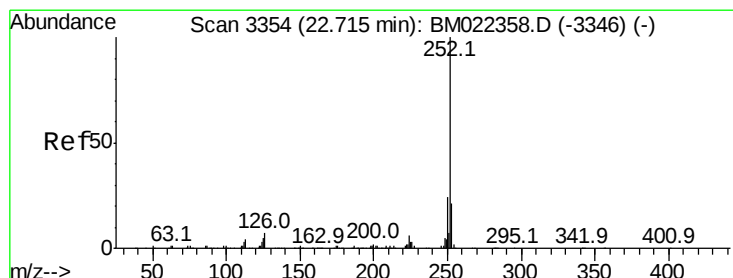
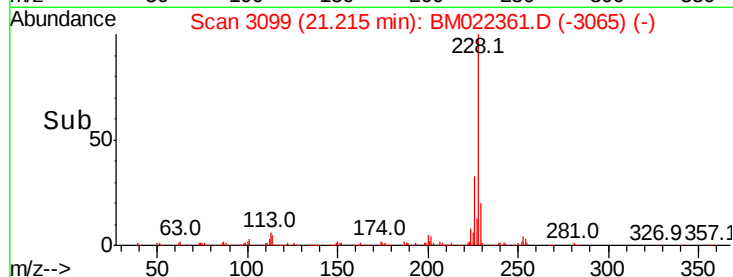
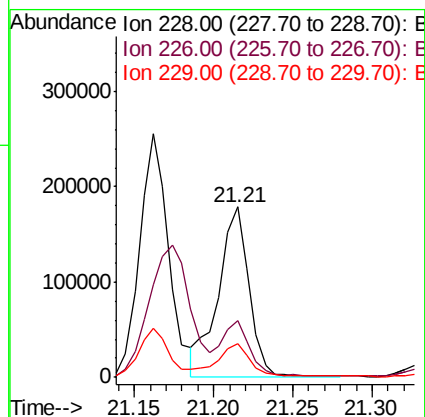
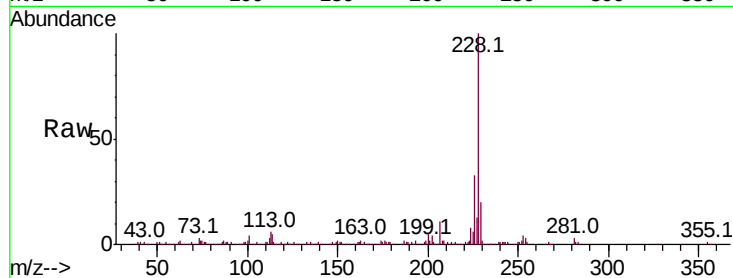
#84
Chrysene
Concen: 14.486 ng/ul
RT: 21.21 min Scan# 3099
Delta R.T. -0.00 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Instrument :
BNA_M
ClientSampleId :
ETJR1

Tot Ion:	228	Resp:	238275
Ion Ratio	Lower	Upper	
228	100		
226	32.9	24.7	37.1
229	20.1	15.7	23.5

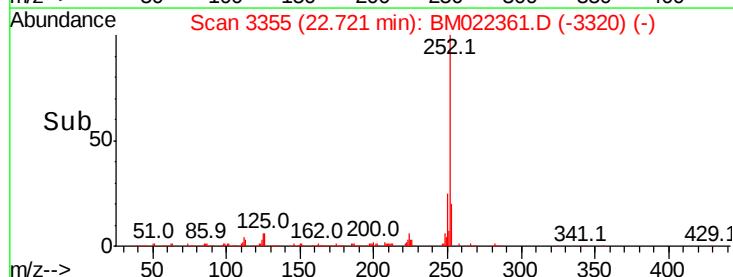
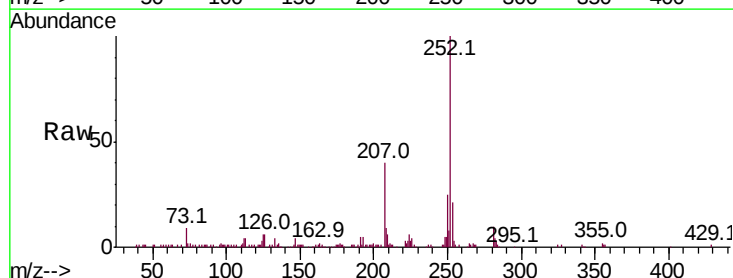
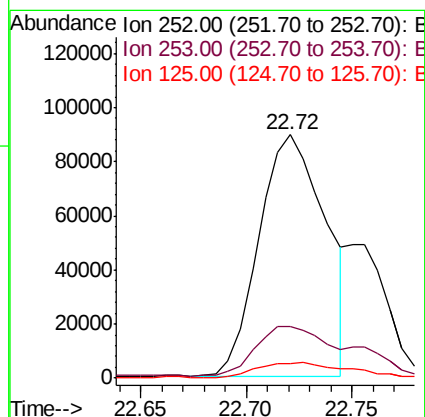
Manual Integrations
APPROVED

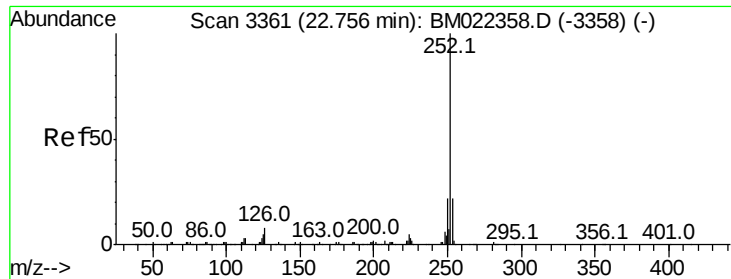
mohammad
8/28/2019 10:11:49 AM



#87
Benzo(b)fluoranthene
Concen: 13.752 ng/ul
RT: 22.72 min Scan# 3355
Delta R.T. 0.01 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Tgt Ion:	252	Resp:	196401
Ion Ratio	Lower	Upper	
252	100		
253	21.4	17.0	25.6
125	6.2	5.2	7.8





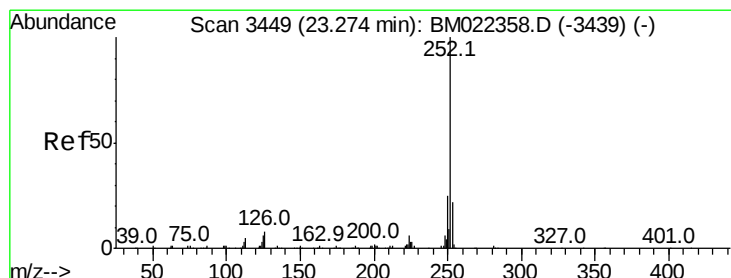
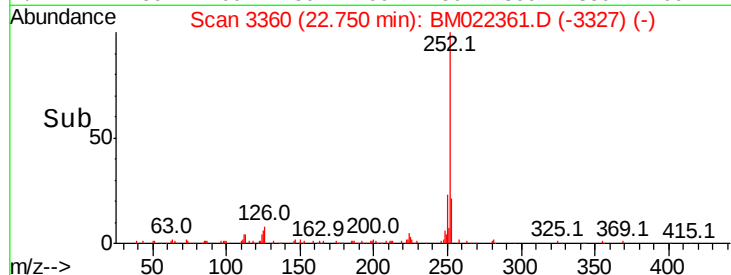
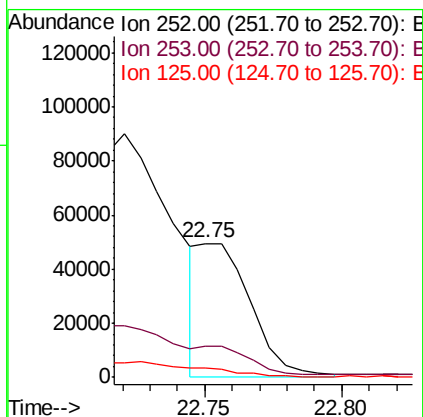
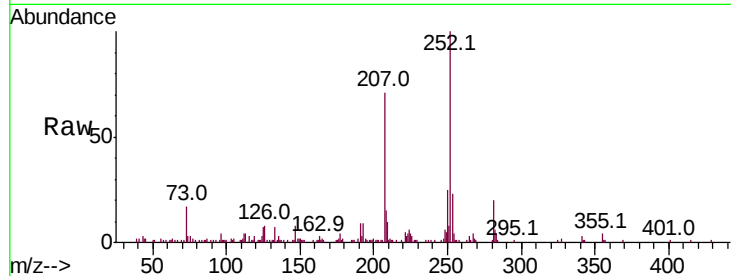
#88
Benzo(k)fluoranthene
Concen: 4.709 ng/ul m
RT: 22.75 min Scan# 3360
Delta R.T. -0.01 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Instrument :
BNA_M
ClientSampled :
ETJR1

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	18.1	27.1
125	6.7	5.1	7.7

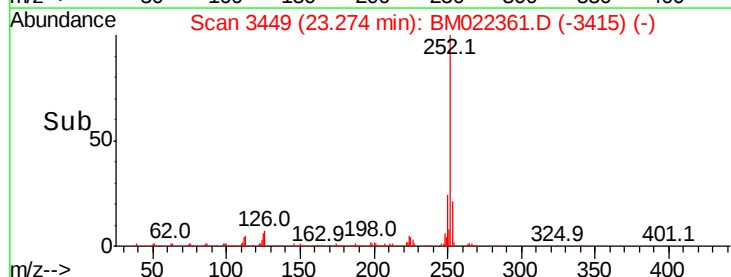
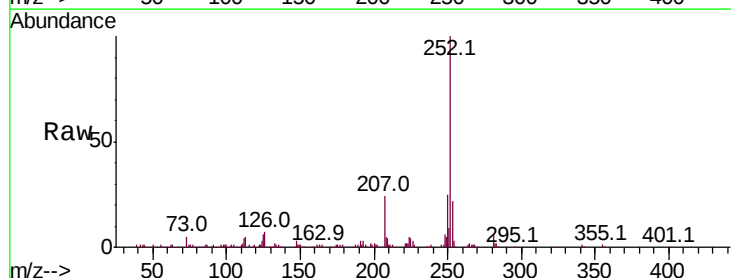
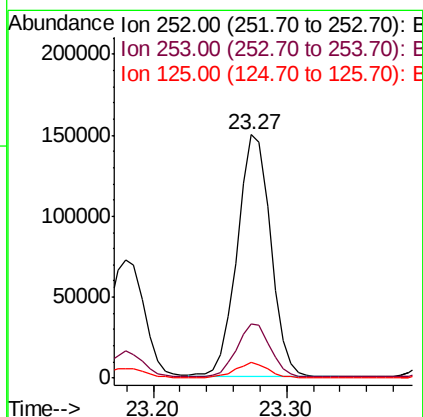
Manual Integrations
APPROVED

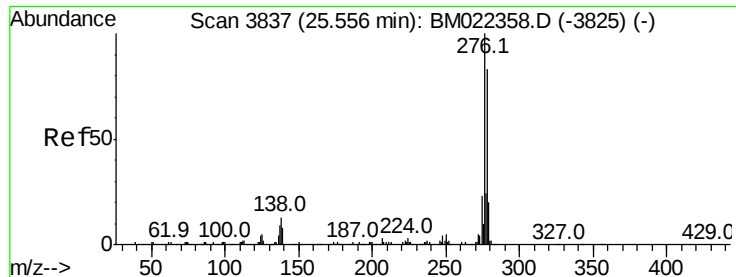
mohammad
8/28/2019 10:11:49 AM



#90
Benzo(a)pyrene
Concen: 18.947 ng/ul
RT: 23.27 min Scan# 3449
Delta R.T. -0.00 min
Lab File: BM022361.D
Acq: 27 Aug 2019 10:42

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.0	16.9	25.3
125	6.3	5.5	8.3





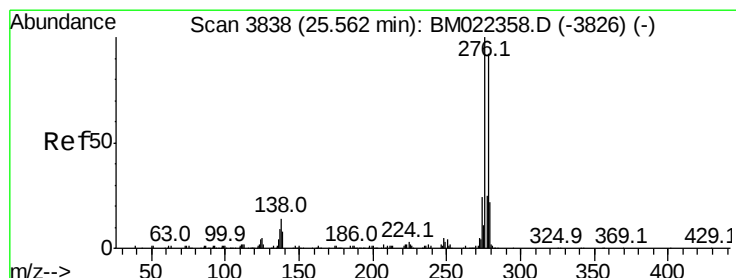
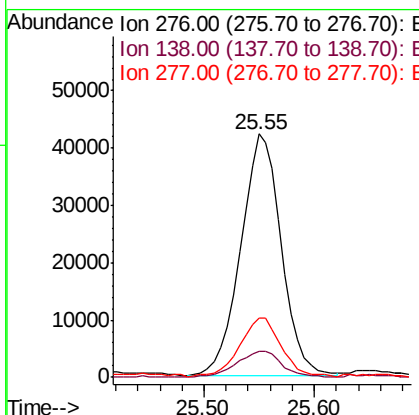
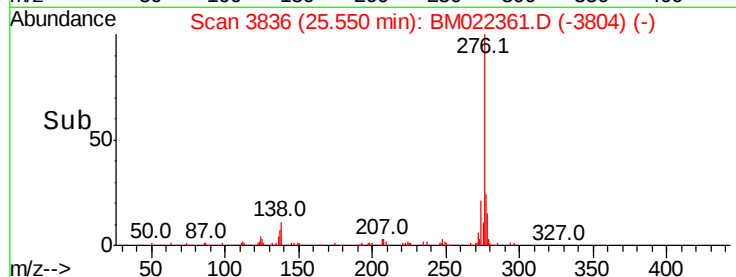
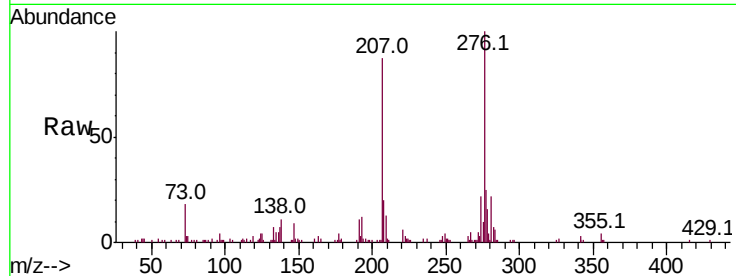
#91
 Indeno(1,2,3-cd)pyrene
 Concen: 6.826 ng/ul
 RT: 25.55 min Scan# 3836
 Delta R.T. -0.01 min
 Lab File: BM022361.D
 Acq: 27 Aug 2019 10:42

Instrument :
 BNA_M
 ClientSampled :
 ETJR1

Tot Ion	Ratio	Lower	Upper
276	100		
138	10.5	12.6	18.8#
277	24.5	20.2	30.2

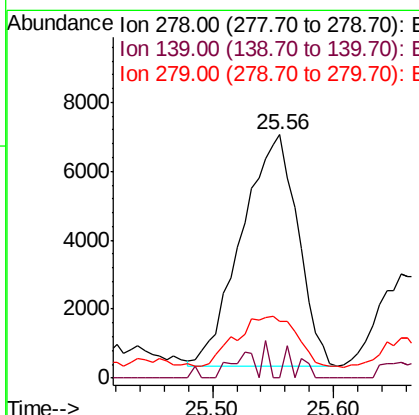
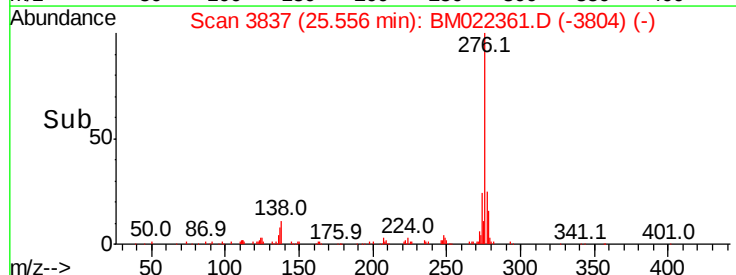
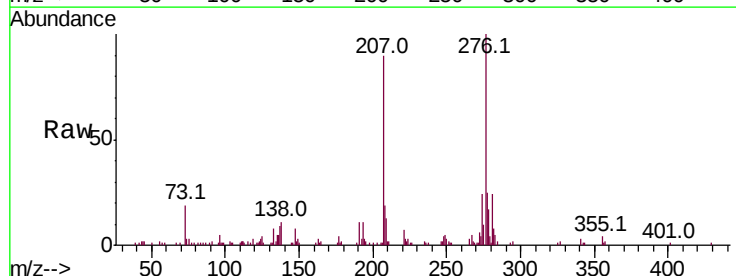
Manual Integrations
 APPROVED

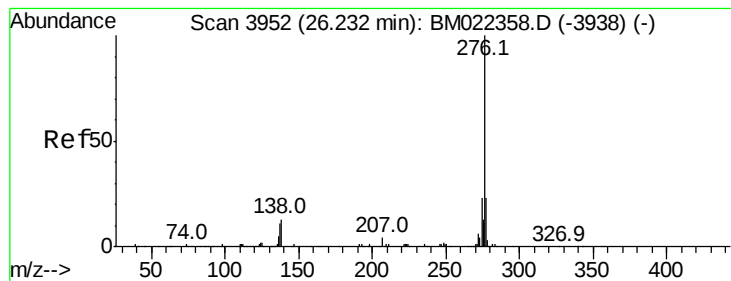
mohammad
 8/28/2019 10:11:49 AM



#92
 Dibenzo(a,h)anthracene
 Concen: 1.611 ng/ul
 RT: 25.56 min Scan# 3837
 Delta R.T. -0.01 min
 Lab File: BM022361.D
 Acq: 27 Aug 2019 10:42

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	7.7	11.5#
279	23.3	19.0	28.6





#93

Benzo(a,h,i)perylene

Concen: 11.243 ng/ul

RT: 26.22 min Scan# 3950

Delta R.T. -0.01 min

Lab File: BM022361.D

Acq: 27 Aug 2019 10:42

Instrument :

BNA_M

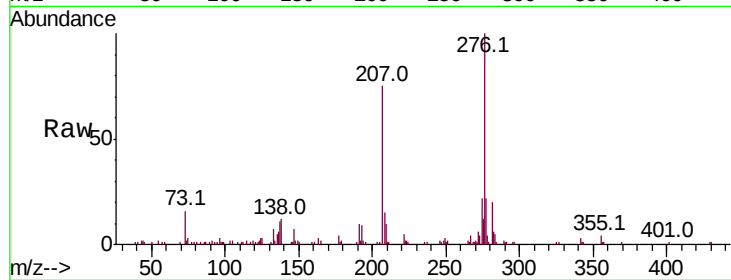
ClientSampleId :

ETJR1

Tot Ion:	276	Resp:	135575
Ion Ratio	Lower	Upper	
276	100		
138	12.0	10.2	15.4
277	22.1	18.2	27.4

Manual Integrations
APPROVED

mohammad
8/28/2019 10:11:49 AM



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

