

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM112219\
 Data File : BM023879.D
 Acq On : 23 Nov 2019 04:33
 Operator : JU
 Sample : K5854-08
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 C0AC6

Manual Integrations
 APPROVED

mohammad
 11/25/2019 8:21:08 AM

Quant Time: Nov 25 01:18:58 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM11119MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Nov 25 01:09:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	389867	20.00	ng/ul	0.00
18) Naphthalene-d8	10.28	136	1556212	20.00	ng/ul	0.00
36) Acenaphthene-d10	14.17	164	959530	20.00	ng/ul	0.00
62) Phenanthrene-d10	16.92	188	1977029	20.00	ng/ul	0.00
78) Chrysene-d12	21.13	240	1914484	20.00	ng/ul	0.00
86) Perylene-d12	23.29	264	2371380	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.05	96	26562	2.81	ng/uL	0.00
5) Phenol-d5	6.70	99	683805	19.24	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.85	67	382250	18.72	ng/ul	0.00
9) 2-Chlorophenol-d4	7.05	132	553116	21.48	ng/ul	0.00
13) 4-Methylphenol-d8	8.23	113	465769	16.43	ng/ul	0.00
19) Nitrobenzene-d5	8.66	128	270082	24.25	ng/ul	0.00
22) 2-Nitrophenol-d4	9.37	143	315751	26.97	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.92	165	579903	21.72	ng/ul	0.00
29) 4-Chloroaniline-d4	10.43	131	155733	5.31	ng/ul	0.00
44) Dimethylphthalate-d6	13.59	166	1767922	23.63	ng/ul	0.00
47) Acenaphthylene-d8	13.86	160	2151934	25.20	ng/ul	0.00
52) 4-Nitrophenol-d4	14.41	143	204521	16.01	ng/ul	0.01
58) Fluorene-d10	15.17	176	1559599	23.60	ng/ul	0.00
63) 4,6-Dinitro-2-methylphenol	15.31	200	85185	7.45	ng/ul	0.00
71) Anthracene-d10	17.02	188	2384644	25.43	ng/ul	0.00
79) Pyrene-d10	19.33	212	2525692	25.30	ng/ul	0.00
90) Benzo(a)pyrene-d12	23.16	264	3170280	25.41	ng/ul	0.01

Target Compounds

					Qvalue
6) Phenol	6.73	94	195163	5.331 ng/ul	98
14) Acetophenone	8.33	105	101725	2.301 ng/ul	98
28) Naphthalene	10.33	128	398818	4.876 ng/ul	99
34) 2-Methylnaphthalene	11.96	142	412211	6.588 ng/ul	98
41) 1,1'-Biphenyl	12.99	154	115427	1.559 ng/ul	98
45) Dimethylphthalate	13.63	163	460344	6.278 ng/ul	99
48) Acenaphthylene	13.89	152	189014	2.199 ng/ul	98
50) Acenaphthene	14.23	153	229724	3.765 ng/ul	99
54) Dibenzofuran	14.57	168	238192	2.637 ng/ul	97
59) Fluorene	15.22	166	205637	2.807 ng/ul#	95
65) N-Nitrosodiphenylamine	15.45	169	87500	1.508 ng/ul	90
70) Phenanthrene	16.96	178	4260810	39.127 ng/ul	100
72) Anthracene	17.06	178	1289952	11.780 ng/ul	100
75) Carbazole	17.33	167	569498	6.239 ng/ul	99
76) Di-n-butylphthalate	17.91	149	266803	2.651 ng/ul	97
77) Fluoranthene	19.00	202	9851561	84.439 ng/ul	96
80) Pyrene	19.36	202	8707316	70.363 ng/ul	99
81) Butylbenzylphthalate	20.28	149	238362	6.082 ng/ul	95
83) Benzo(a)anthracene	21.12	228	4619778	36.583 ng/ul	97
84) Bis(2-ethylhexyl)phthalate	21.07	149	2146772	36.277 ng/ul	98
85) Chrysene	21.17	228	4066338	34.204 ng/ul	97
87) Di-n-octyl phthalate	21.93	149	176083	1.519 ng/ul	100
88) Benzo(b)fluoranthene	22.65	252	5895328	38.999 ng/ul#	97

Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM112219\
Data File : BM023879.D
Acq On : 23 Nov 2019 04:33
Operator : JU
Sample : K5854-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
C0AC6

Manual Integrations
APPROVED

mohammad
11/25/2019 8:21:08 AM

Quant Time: Nov 25 01:18:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM111119MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Nov 25 01:09:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
89) Benzo(k)fluoranthene	22.69	252	1624847m	11.157	ng/ul	
91) Benzo(a)pyrene	23.20	252	3607533	26.068	ng/ul#	96
92) Indeno(1,2,3-cd)pyrene	25.43	276	2375117	16.050	ng/ul	98
93) Dibenzo(a,h)anthracene	25.43	278	620752	4.971	ng/ul#	85
94) Benzo(g,h,i)perylene	26.09	276	2156787	17.987	ng/ul	97

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

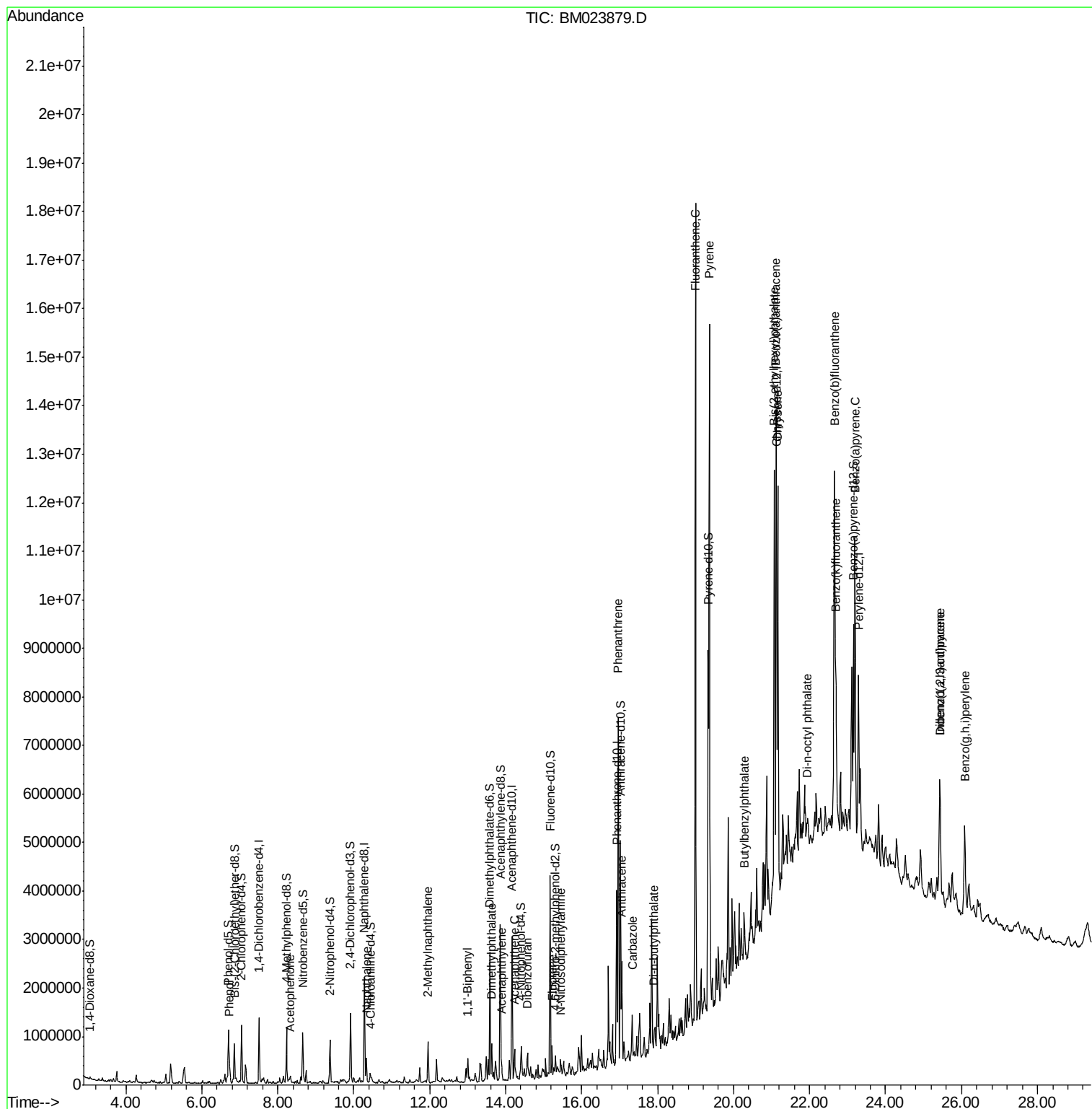
Data Path : Z:\SVOASRV\HPCHEM1\BNA_M\DATA\BM112219\
Data File : BM023879.D
Acq On : 23 Nov 2019 04:33
Operator : JU
Sample : K5854-08
Misc :
ALS Vial : 21 Sample Multiplier: 1

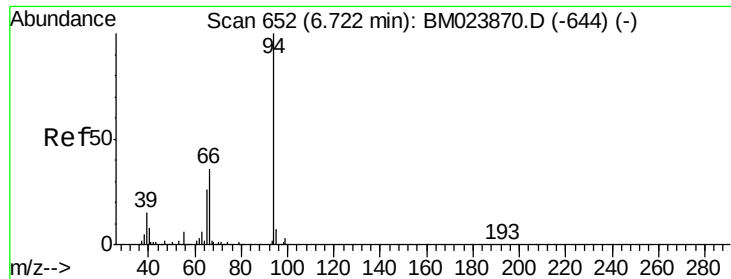
Instrument :
BNA_M
ClientSampleID :
C0AC6

Manual Integrations
APPROVED

mohammad
11/25/2019 8:21:08 AM

Quant Time: Nov 25 01:18:58 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM11119MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Mon Nov 25 01:09:42 2019
Response via : Initial Calibration





#6

Phenol

Concen: 5.331 ng/ul

RT: 6.73 min Scan# 653

Delta R.T. 0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

Instrument :

BNA_M

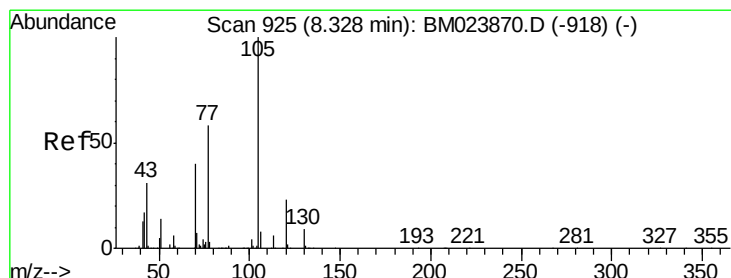
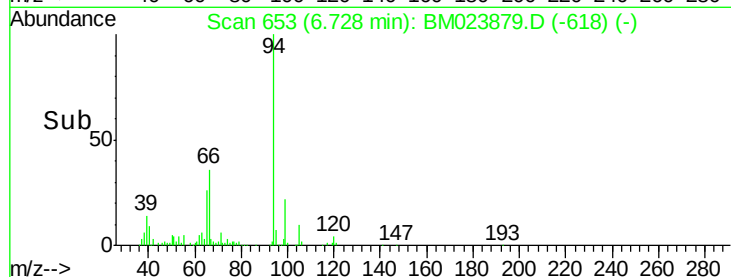
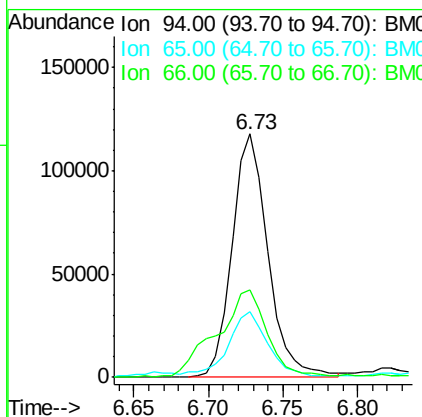
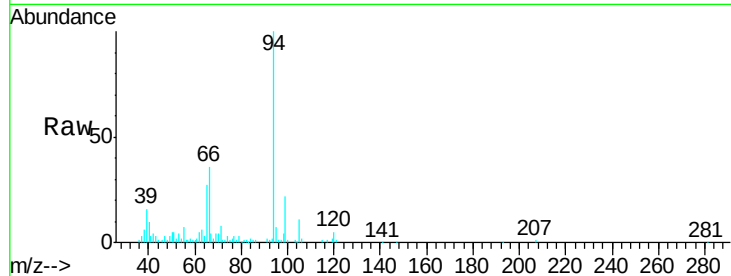
ClientSampleId :

C0AC6

Tgt Ion:	94	Resp:	195163
Ion	Ratio	Lower	Upper
94	100		
65	27.0	21.4	32.2
66	36.0	30.7	46.1

Manual Integrations
APPROVED

mohammad
11/25/2019 8:21:08 AM



#14

Acetophenone

Concen: 2.301 ng/ul

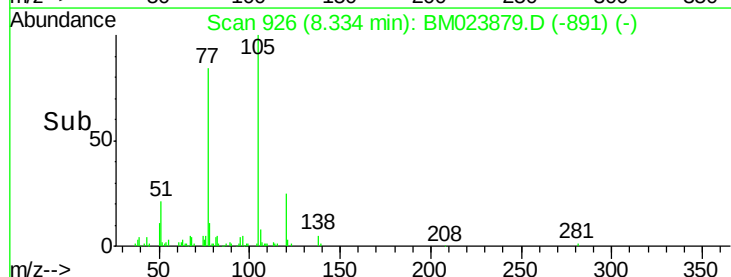
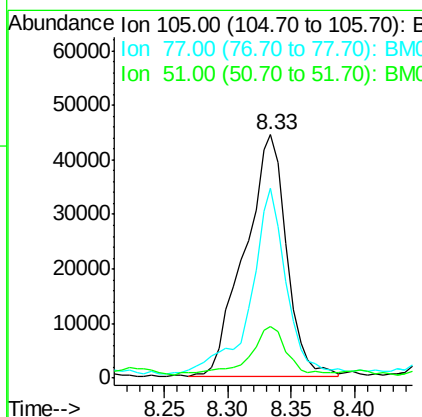
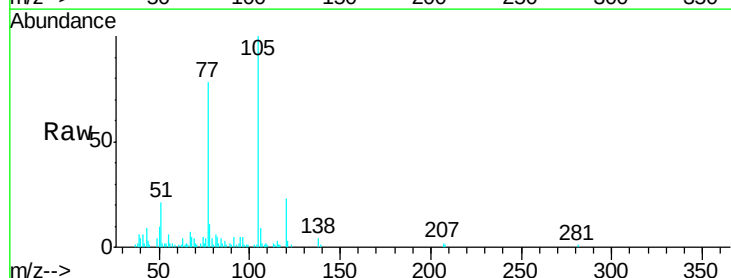
RT: 8.33 min Scan# 926

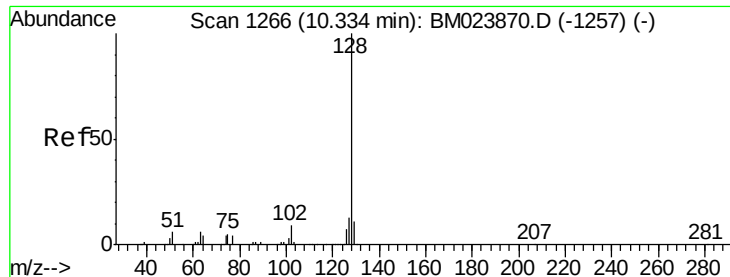
Delta R.T. 0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

Tgt Ion:	105	Resp:	101725
Ion	Ratio	Lower	Upper
105	100		
77	77.9	63.8	95.6
51	21.0	16.3	24.5





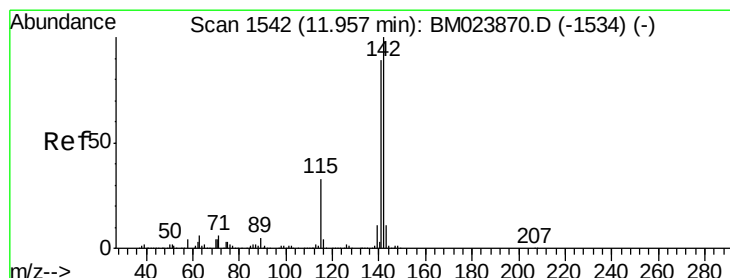
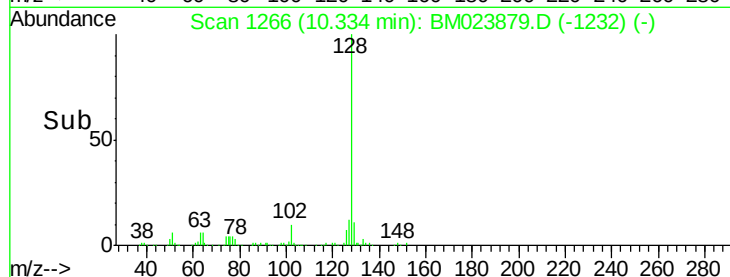
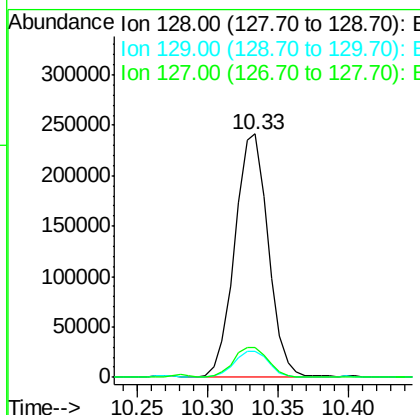
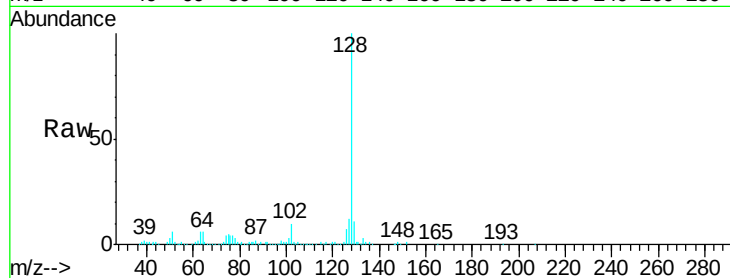
#28
Naphthalene
Concen: 4.876 ng/ul
RT: 10.33 min Scan# 1266
Delta R.T. 0.00 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Instrument :
BNA_M
ClientSampleId :
C0AC6

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	398818		
129	10.9	8.7	13.1	
127	12.3	10.6	16.0	

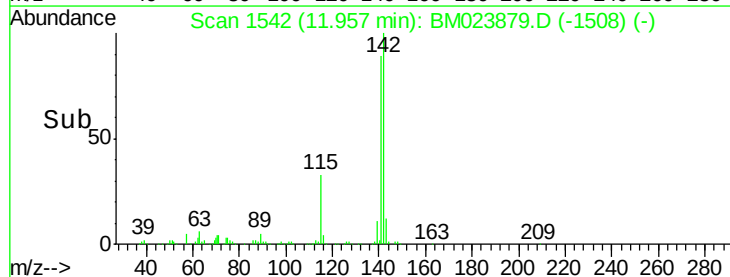
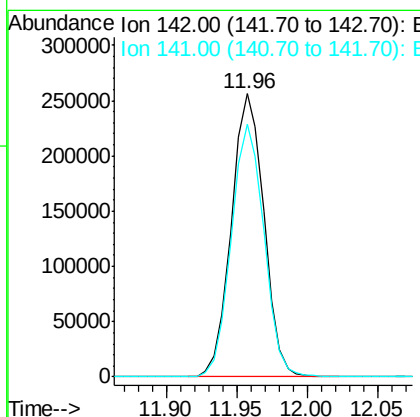
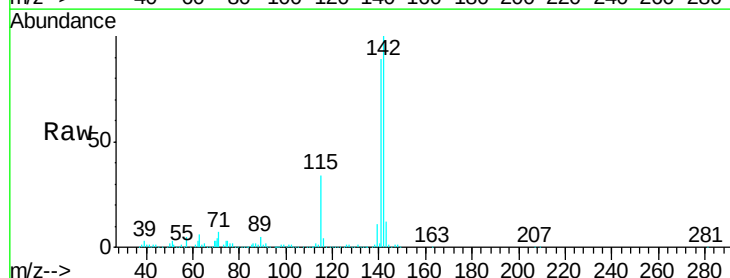
Manual Integrations
APPROVED

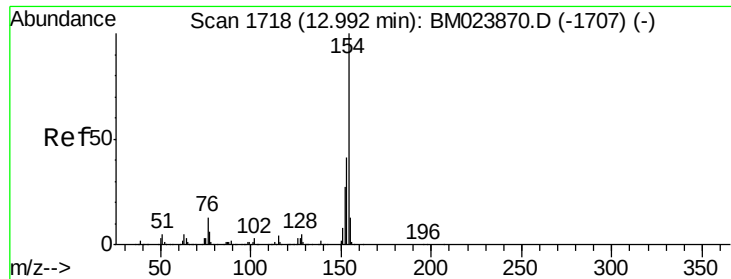
mohammad
11/25/2019 8:21:08 AM



#34
2-Methylnaphthalene
Concen: 6.588 ng/ul
RT: 11.96 min Scan# 1542
Delta R.T. 0.00 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	412211		
141	89.5	69.8	104.8	





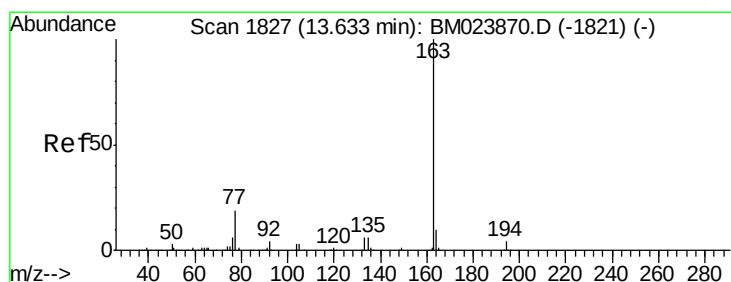
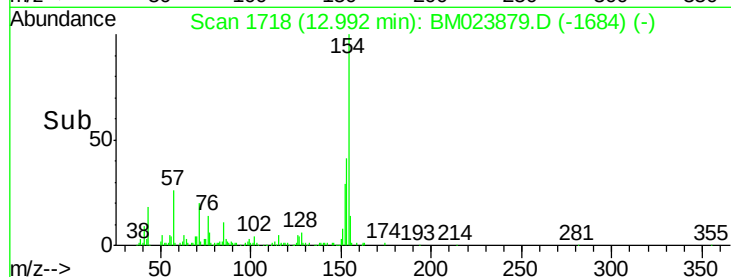
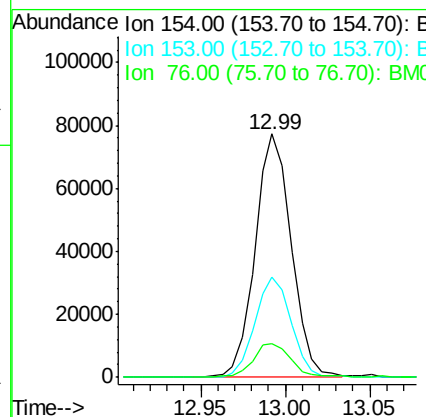
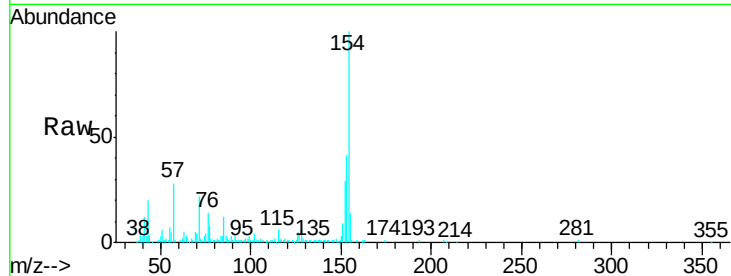
#41
1,1'-Biphenyl
Concen: 1.559 ng/ul
RT: 12.99 min Scan# 1718
Delta R.T. 0.00 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Instrument :
BNA_M
ClientSampled :
C0AC6

Tgt Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.3	48.5
76	14.0	10.6	15.8

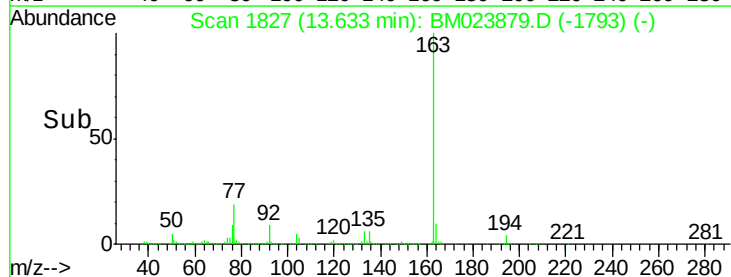
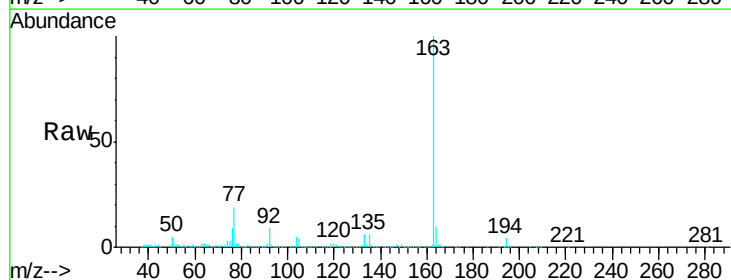
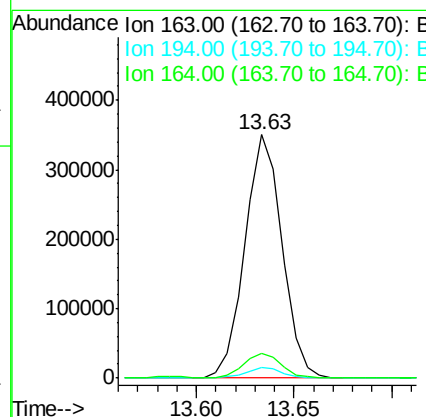
Manual Integrations
APPROVED

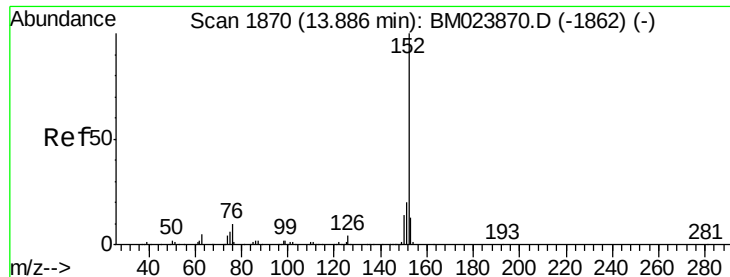
mohammad
11/25/2019 8:21:08 AM



#45
Dimethylphthalate
Concen: 6.278 ng/ul
RT: 13.63 min Scan# 1827
Delta R.T. 0.00 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Tgt Ion	Ratio	Lower	Upper
163	100		
194	4.5	3.4	5.2
164	10.4	8.0	12.0





#48

Acenaphthylene

Concen: 2.199 ng/ul

RT: 13.89 min Scan# 1870

Delta R.T. 0.00 min

Lab File: BM023879.D

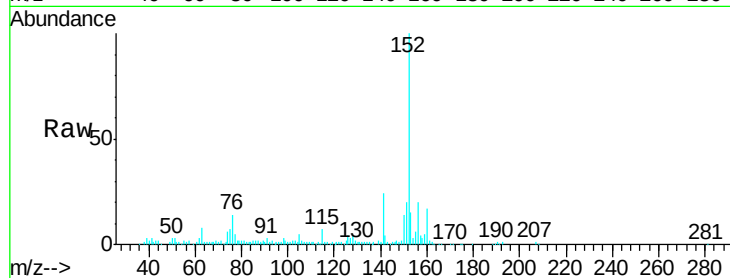
Acq: 23 Nov 2019 04:33

Instrument :

BNA_M

ClientSampleId :

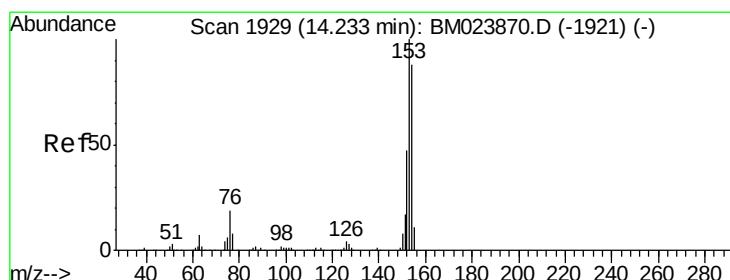
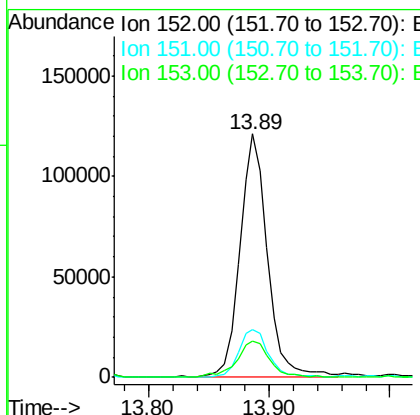
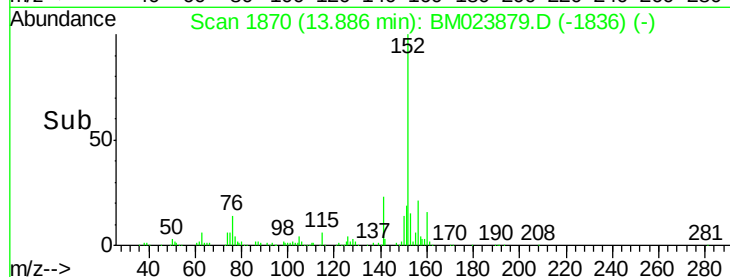
C0AC6



Tgt Ion:	152	Resp:	189014
Ion Ratio		Lower	Upper
152	100		
151	19.7	16.1	24.1
153	15.0	10.4	15.6

Manual Integrations
APPROVED

mohammad
11/25/2019 8:21:08 AM



#50

Acenaphthene

Concen: 3.765 ng/ul

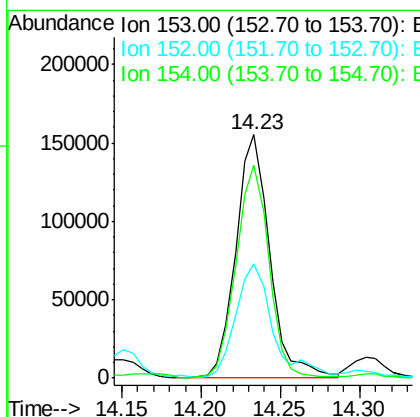
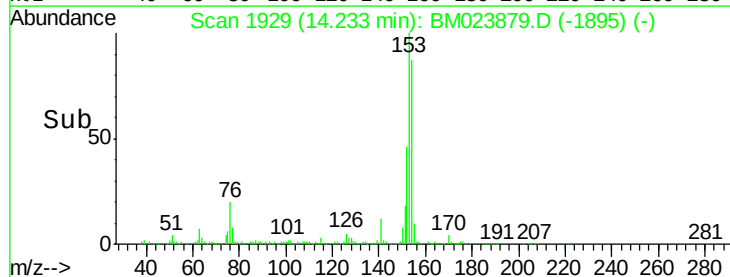
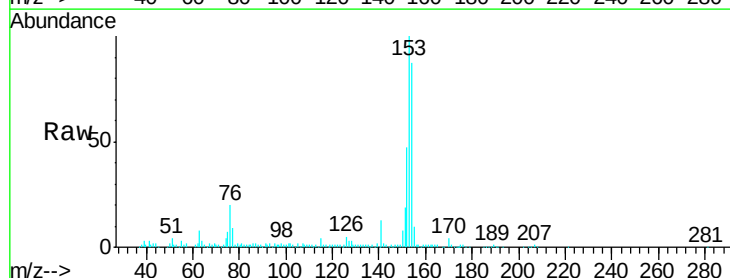
RT: 14.23 min Scan# 1929

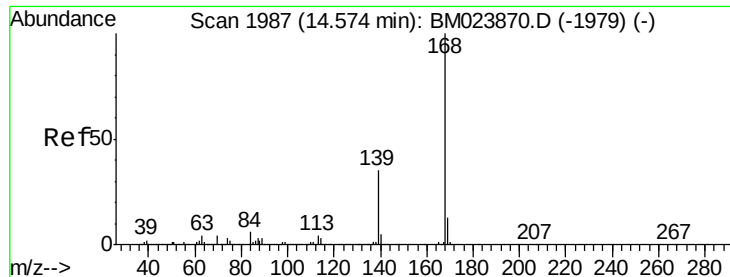
Delta R.T. 0.00 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

Tgt Ion:	153	Resp:	229724
Ion Ratio		Lower	Upper
153	100		
152	46.9	37.7	56.5
154	87.3	70.6	106.0





#54

Dibenzenofuran

Concen: 2.637 ng/ul

RT: 14.57 min Scan# 1986

Delta R.T. -0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

Instrument :

BNA_M

ClientSampleId :

C0AC6

Tgt Ion:168 Resp: 238192

Ion Ratio Lower Upper

168 100

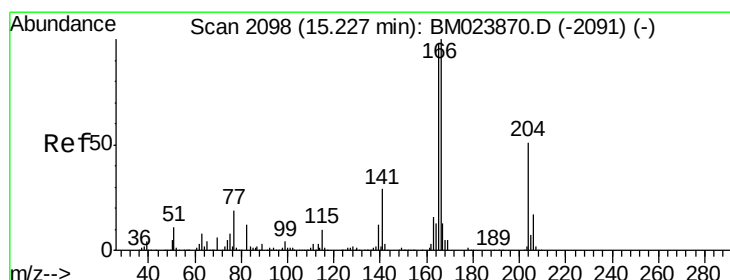
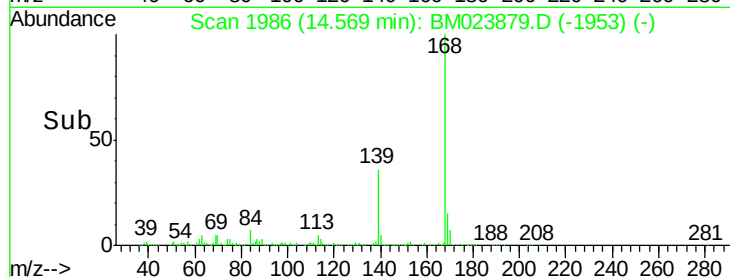
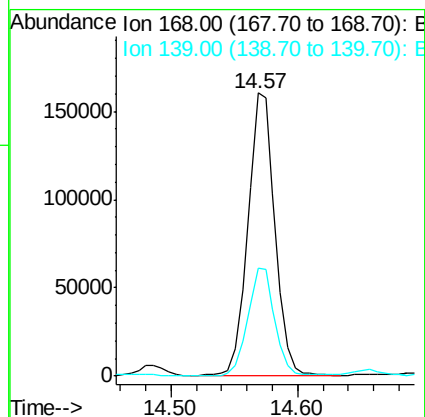
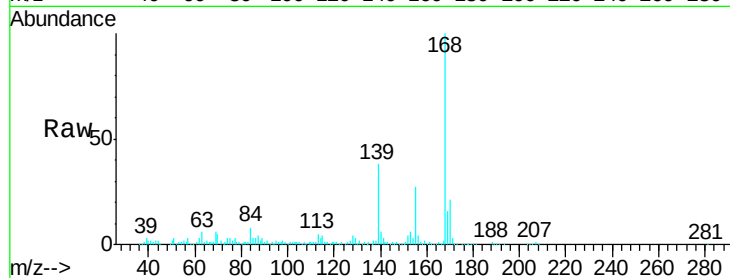
139 38.1 29.3 43.9

Manual Integrations

APPROVED

mohammad

11/25/2019 8:21:08 AM



#59

Fluorene

Concen: 2.807 ng/ul

RT: 15.22 min Scan# 2097

Delta R.T. -0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

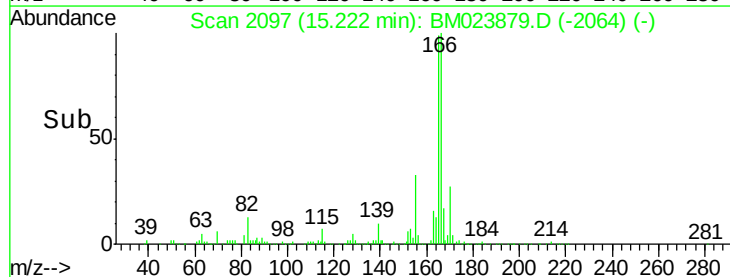
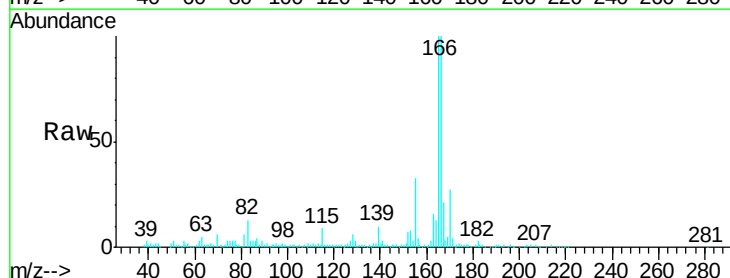
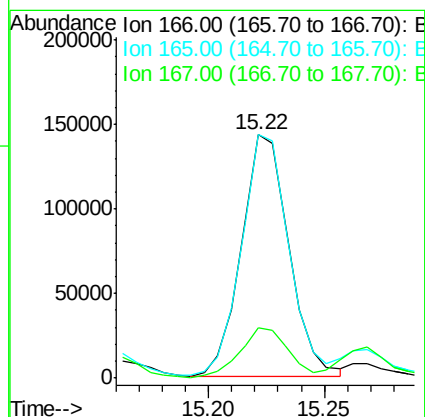
Tgt Ion:166 Resp: 205637

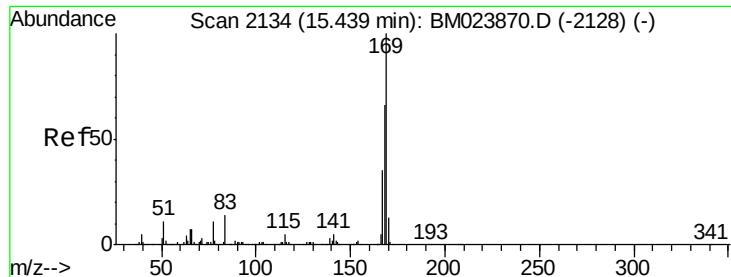
Ion Ratio Lower Upper

166 100

165 100.1 77.2 115.8

167 20.9 10.9 16.3#





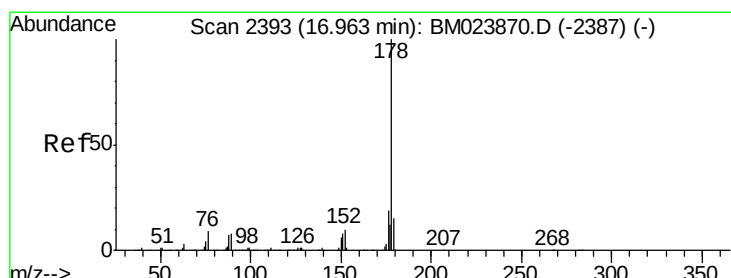
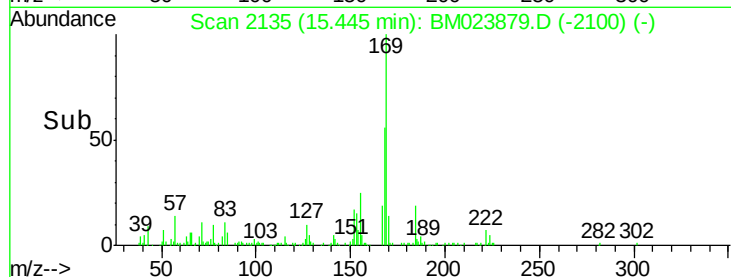
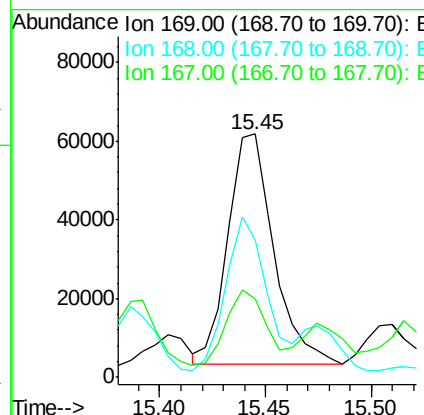
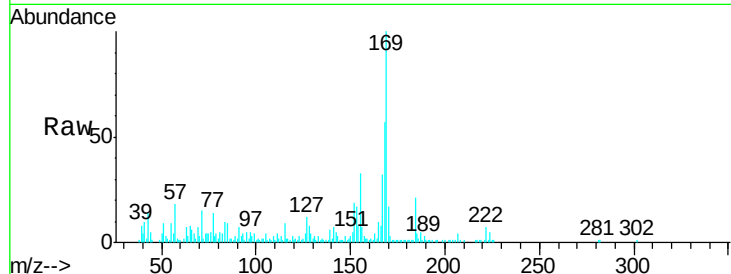
#65
N-Nitrosodiphenylamine
Concen: 1.508 ng/ul
RT: 15.45 min Scan# 2135
Delta R.T. 0.01 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Instrument :
BNA_M
ClientSampleId :
C0AC6

Tgt Ion	Ratio	Lower	Upper
169	100		
168	56.6	53.2	79.8
167	32.5	28.0	42.0

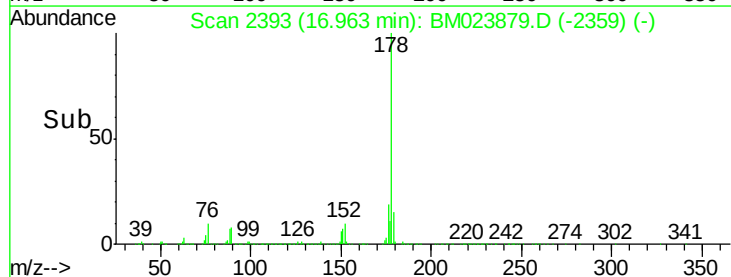
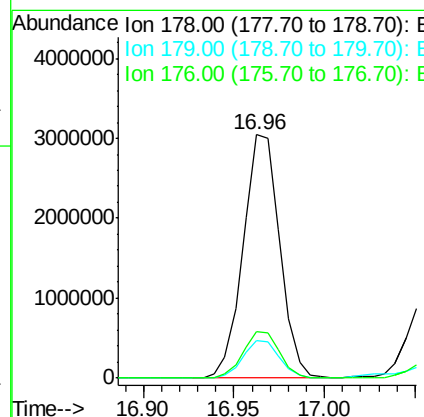
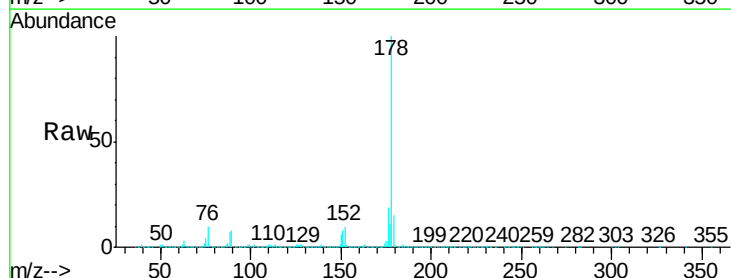
Manual Integrations
APPROVED

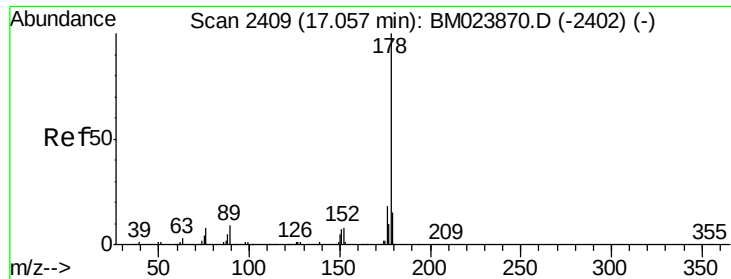
mohammad
11/25/2019 8:21:08 AM



#70
Phenanthrene
Concen: 39.127 ng/ul
RT: 16.96 min Scan# 2393
Delta R.T. 0.00 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	12.3	18.5
176	19.0	15.0	22.6





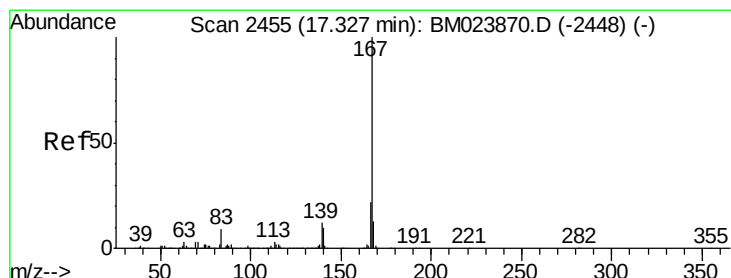
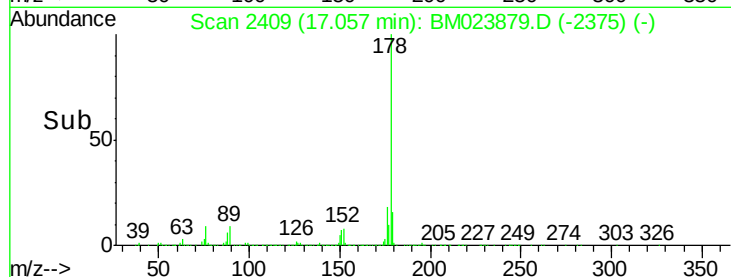
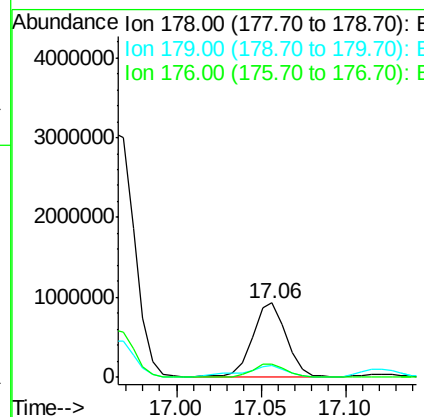
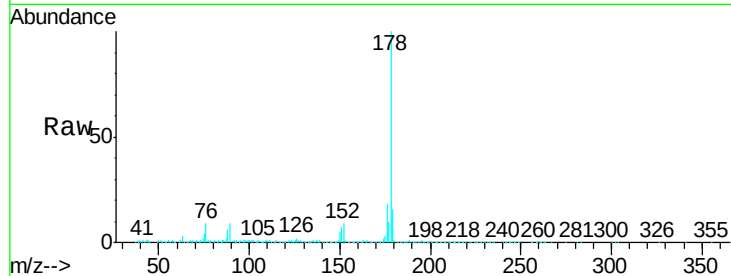
#72
 Anthracene
 Concen: 11.780 ng/ul
 RT: 17.06 min Scan# 2409
 Delta R.T. 0.00 min
 Lab File: BM023879.D
 Acq: 23 Nov 2019 04:33

Instrument :
 BNA_M
 ClientSampleId :
 C0AC6

Tgt Ion:178 Resp: 1289952
 Ion Ratio Lower Upper
 178 100
 179 15.7 12.3 18.5
 176 18.5 14.7 22.1

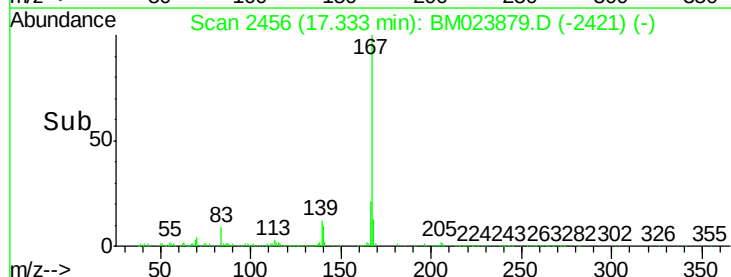
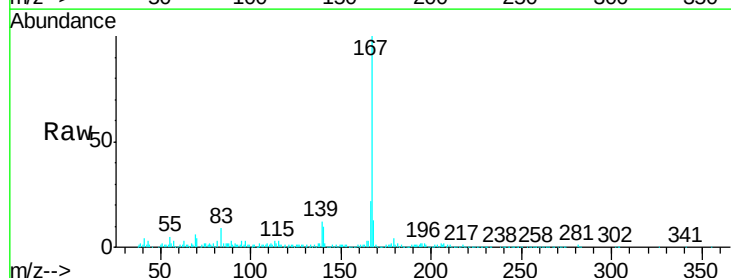
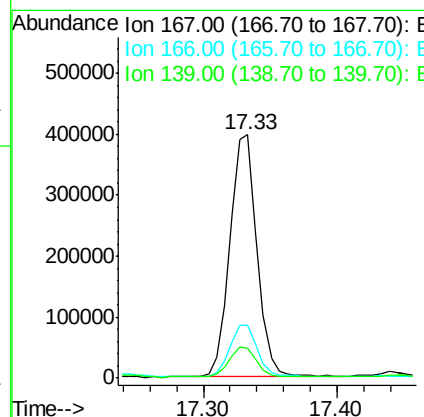
Manual Integrations
 APPROVED

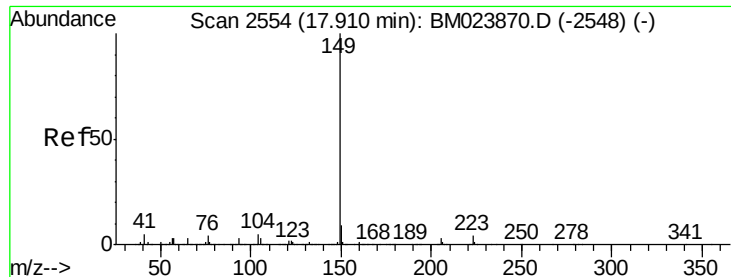
mohammad
 11/25/2019 8:21:08 AM



#75
 Carbazole
 Concen: 6.239 ng/ul
 RT: 17.33 min Scan# 2456
 Delta R.T. 0.01 min
 Lab File: BM023879.D
 Acq: 23 Nov 2019 04:33

Tgt Ion:167 Resp: 569498
 Ion Ratio Lower Upper
 167 100
 166 21.7 17.1 25.7
 139 12.4 9.8 14.6





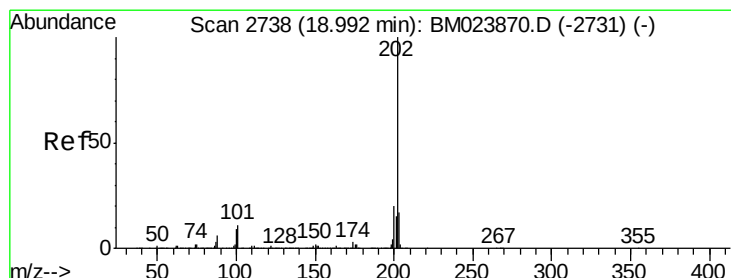
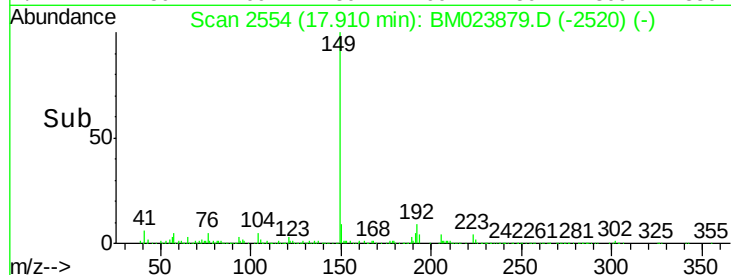
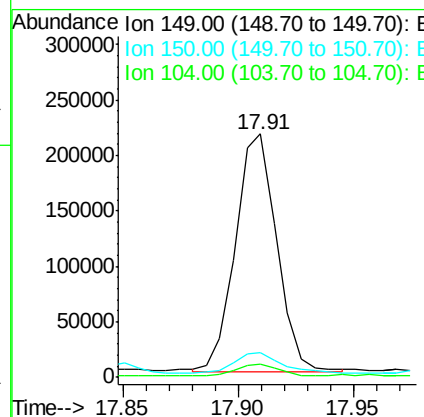
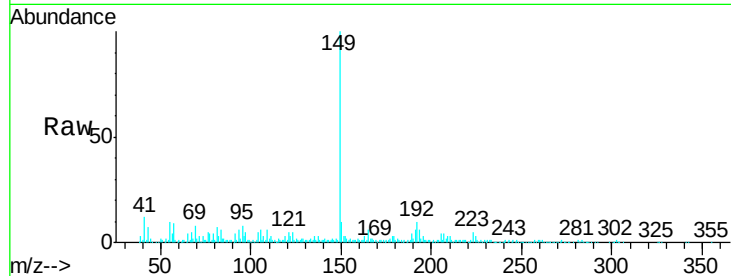
#76
Di-n-butylphthalate
Concen: 2.651 ng/ul
RT: 17.91 min Scan# 2554
Delta R.T. 0.00 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Instrument :
BNA_M
ClientSampleId :
C0AC6

Tgt Ion	Ratio	Resp	Lower	Upper
149	100	266803		
150	10.2		7.1	10.7
104	5.5		4.2	6.2

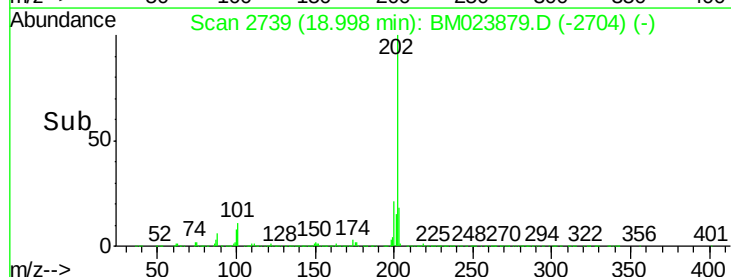
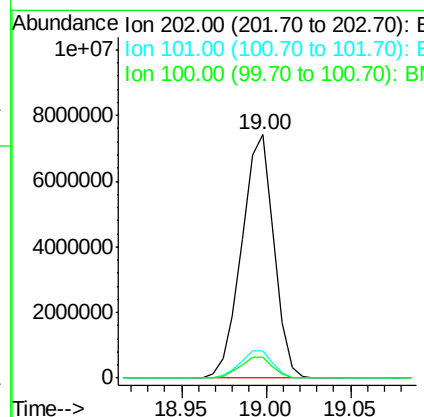
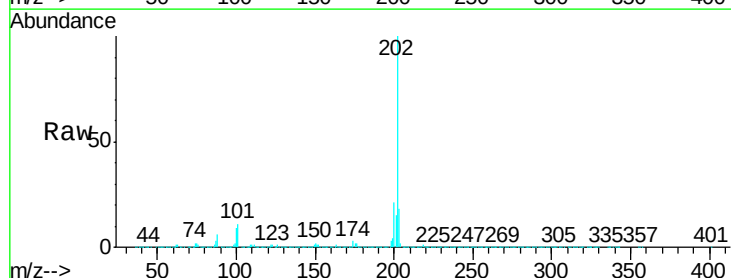
Manual Integrations
APPROVED

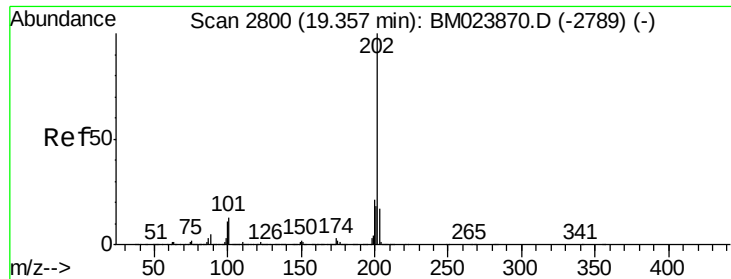
mohammad
11/25/2019 8:21:08 AM



#77
Fluoranthene
Concen: 84.439 ng/ul
RT: 19.00 min Scan# 2739
Delta R.T. 0.01 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	9851561		
101	11.3		7.7	11.5
100	8.6		6.0	9.0





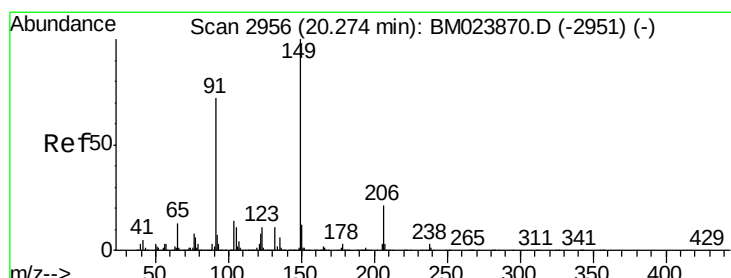
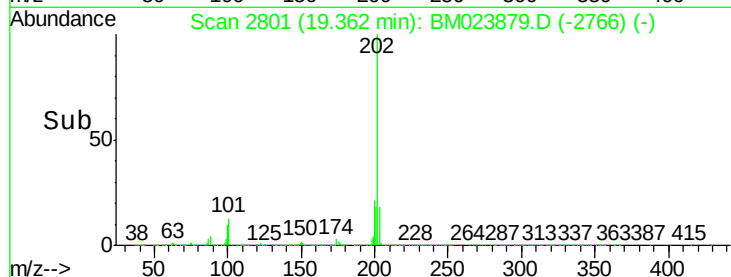
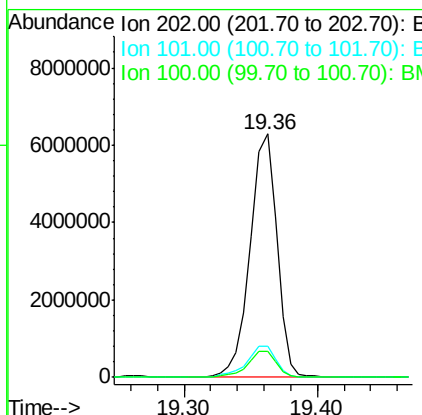
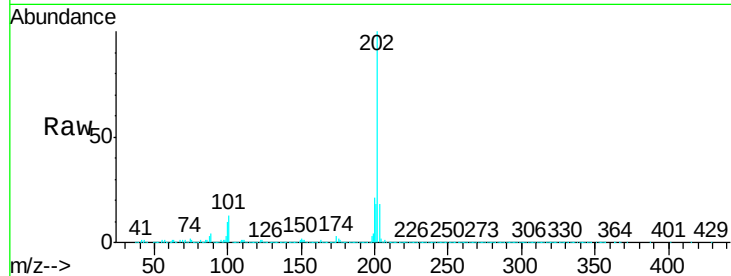
#80
 Pyrene
 Concen: 70.363 ng/ul
 RT: 19.36 min Scan# 2801
 Delta R.T. 0.01 min
 Lab File: BM023879.D
 Acq: 23 Nov 2019 04:33

Instrument :
 BNA_M
 ClientSampleId :
 C0AC6

Tgt Ion	Ratio	Lower	Upper
202	100		
101	12.7	9.8	14.6
100	10.5	8.1	12.1

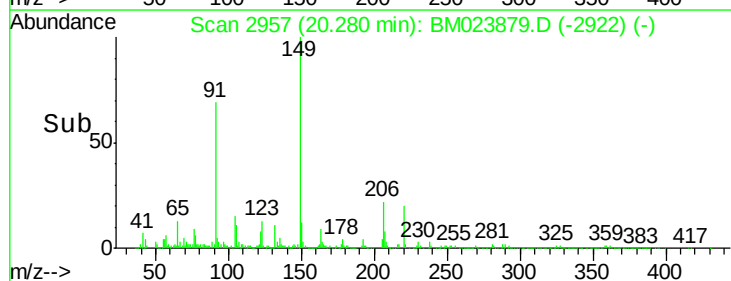
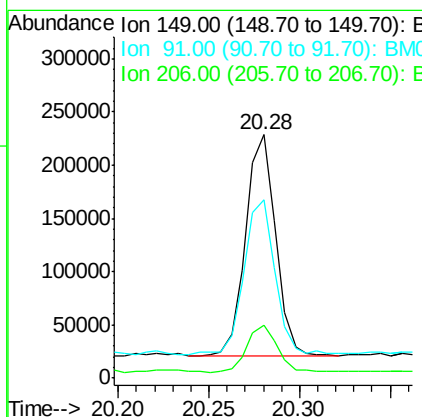
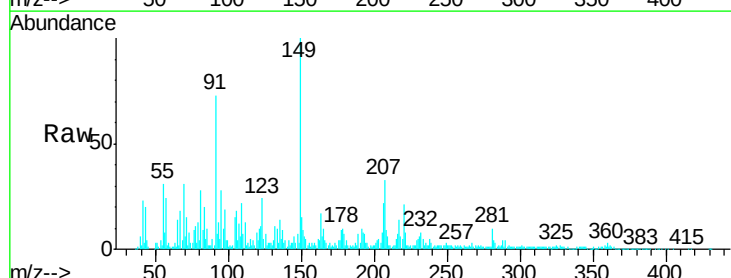
Manual Integrations
 APPROVED

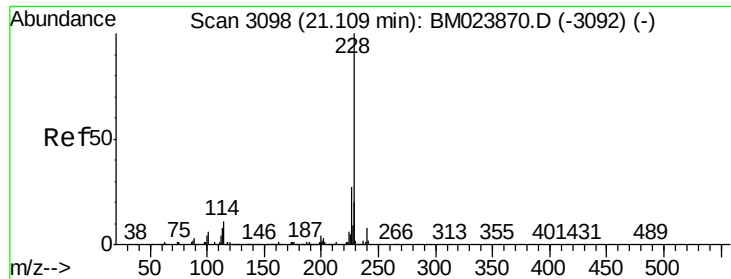
mohammad
 11/25/2019 8:21:08 AM



#81
 Butylbenzylphthalate
 Concen: 6.082 ng/ul
 RT: 20.28 min Scan# 2957
 Delta R.T. 0.01 min
 Lab File: BM023879.D
 Acq: 23 Nov 2019 04:33

Tgt Ion	Ratio	Lower	Upper
149	100		
91	73.2	54.9	82.3
206	21.9	19.3	28.9





#83

Benzo(a)anthracene

Concen: 36.583 ng/ul

RT: 21.12 min Scan# 3099

Delta R.T. 0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

Instrument :

BNA_M

ClientSampleId :

C0AC6

Tgt Ion:228 Resp: 4619778

Ion Ratio Lower Upper

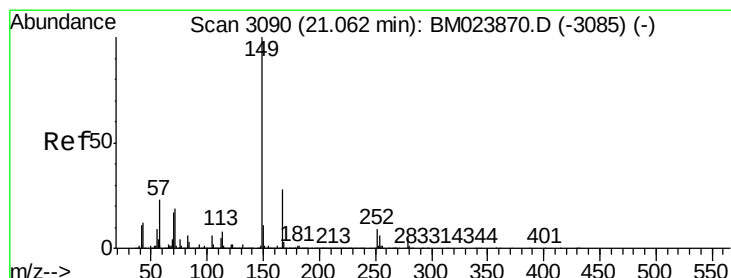
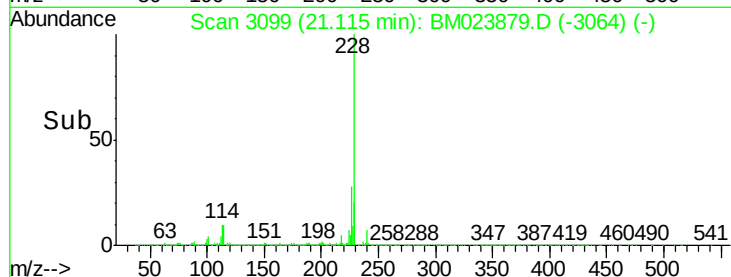
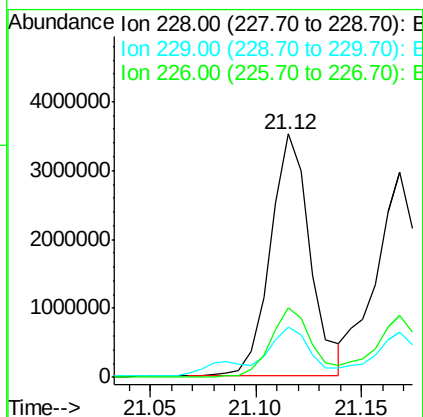
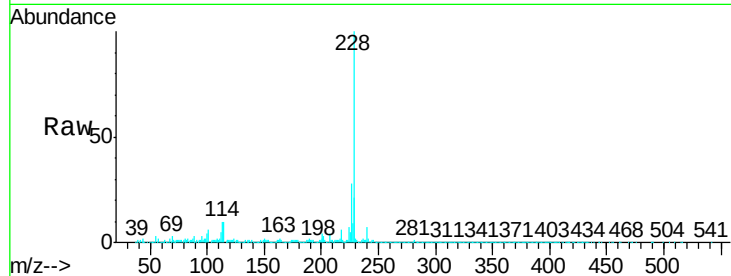
228 100

229 20.8 15.6 23.4

226 28.3 21.4 32.2

Manual Integrations
APPROVED

mohammad
11/25/2019 8:21:08 AM



#84

Bis(2-ethylhexyl)phthalate

Concen: 36.277 ng/ul

RT: 21.07 min Scan# 3091

Delta R.T. 0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

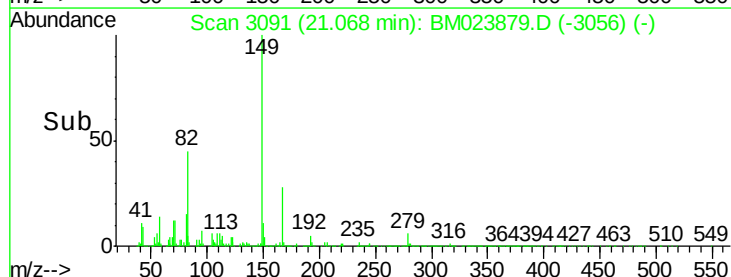
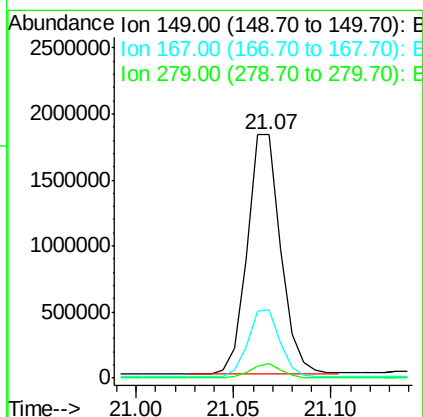
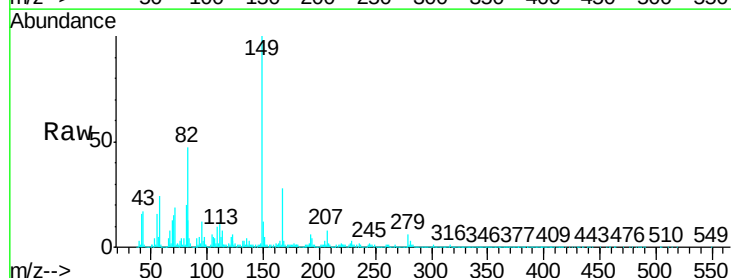
Tgt Ion:149 Resp: 2146772

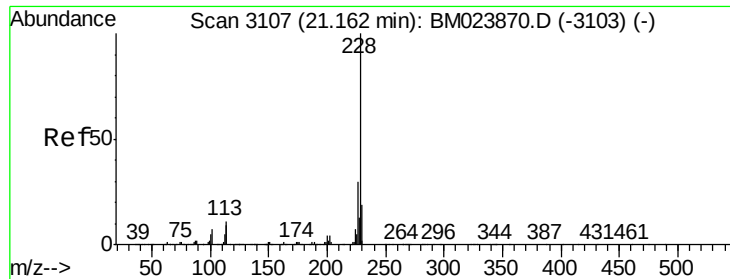
Ion Ratio Lower Upper

149 100

167 28.2 23.4 35.2

279 6.0 5.0 7.4





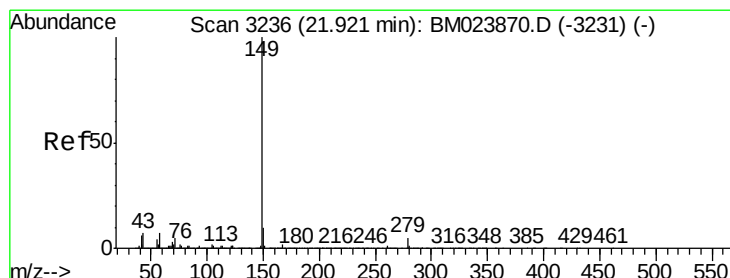
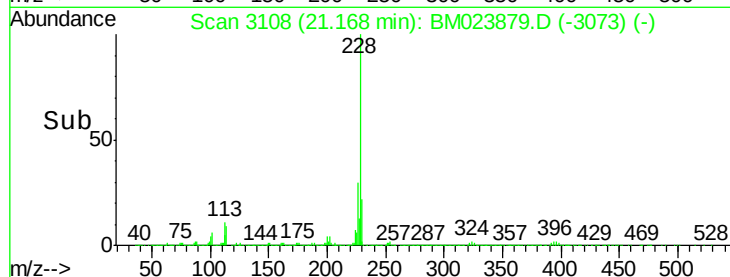
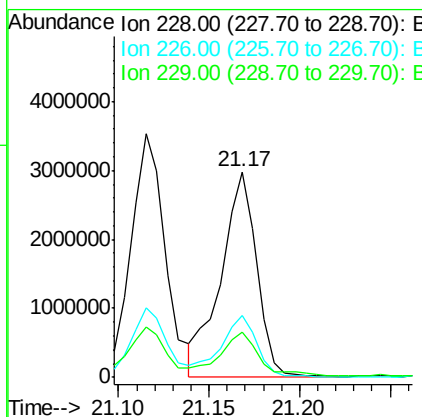
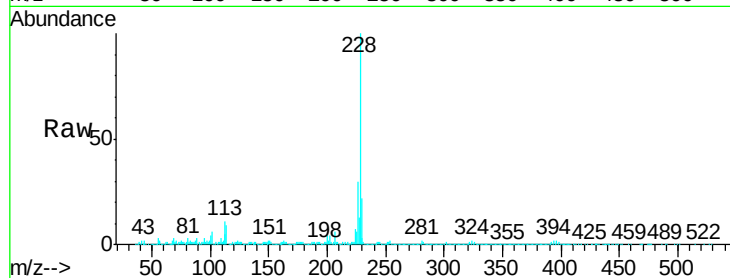
#85
Chrysene
 Concen: 34.204 ng/ul
 RT: 21.17 min Scan# 3108
 Delta R.T. 0.01 min
 Lab File: BM023879.D
 Acq: 23 Nov 2019 04:33

Instrument :
 BNA_M
 ClientSampleId :
 C0AC6

Tgt Ion:228 Resp: 4066338
 Ion Ratio Lower Upper
 228 100
 226 30.2 23.8 35.8
 229 22.3 15.8 23.6

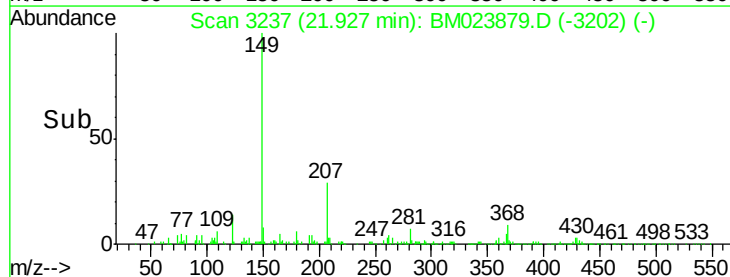
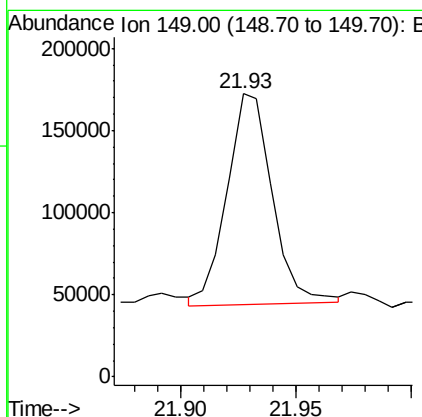
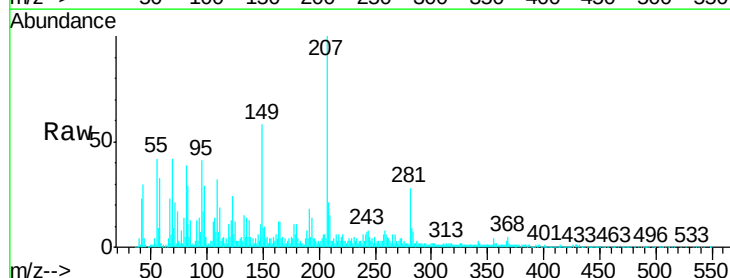
Manual Integrations
 APPROVED

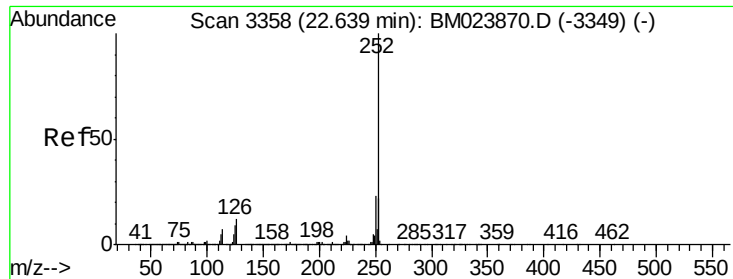
mohammad
 11/25/2019 8:21:08 AM



#87
Di-n-octyl phthalate
 Concen: 1.519 ng/ul
 RT: 21.93 min Scan# 3237
 Delta R.T. 0.01 min
 Lab File: BM023879.D
 Acq: 23 Nov 2019 04:33

Tgt Ion:149 Resp: 176083





#88

Benzo(b)fluoranthene

Concen: 38.999 ng/ul

RT: 22.65 min Scan# 3360

Delta R.T. 0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

Instrument :

BNA_M

ClientSampleId :

C0AC6

Tgt Ion:252 Resp: 5895328

Ion Ratio Lower Upper

252 100

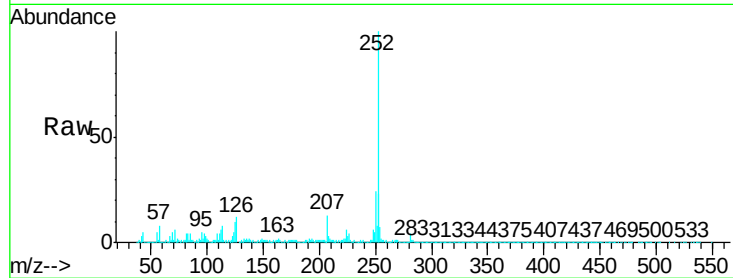
253 23.2 17.8 26.8

125 10.0 6.5 9.7#

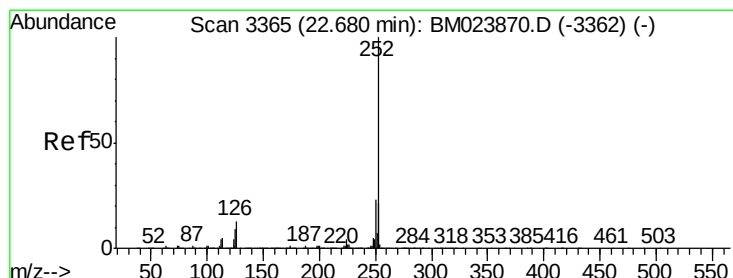
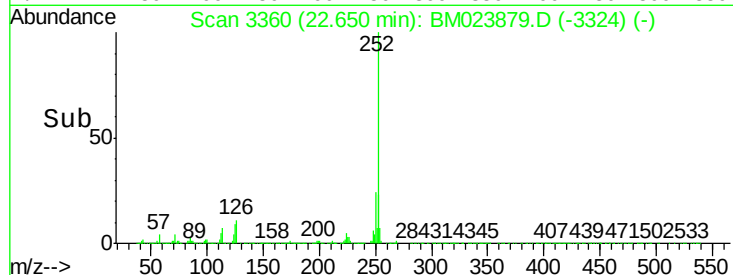
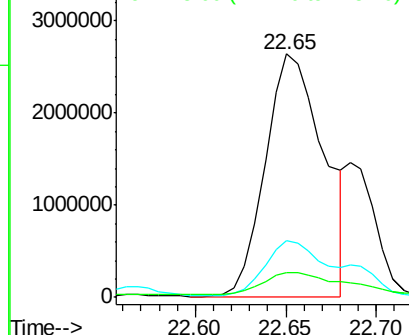
Manual Integrations
APPROVED

mohammad

11/25/2019 8:21:08 AM



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



#89

Benzo(k)fluoranthene

Concen: 11.157 ng/ul m

RT: 22.69 min Scan# 3366

Delta R.T. 0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

Tgt Ion:252 Resp: 1624847

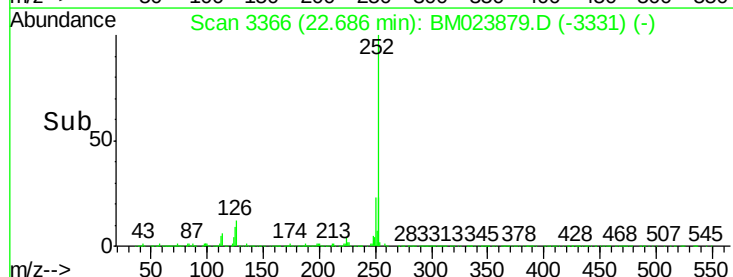
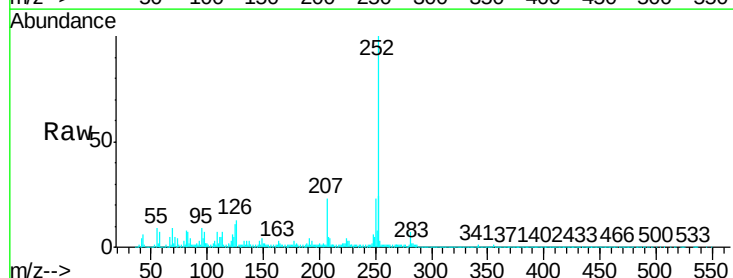
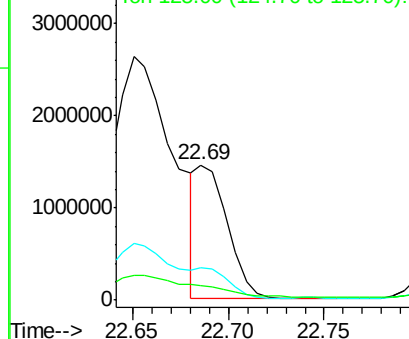
Ion Ratio Lower Upper

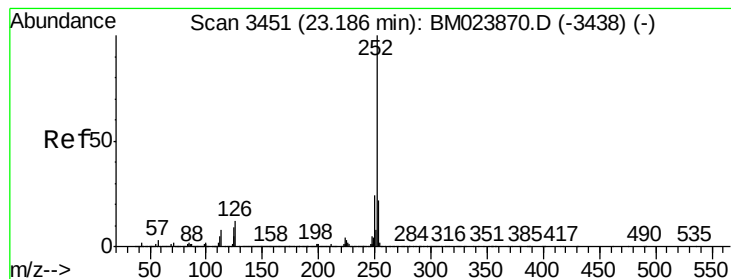
252 100

253 24.1 17.2 25.8

125 11.0 5.9 8.9#

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

Benzo(a)pyrene

Concen: 26.068 ng/ul

RT: 23.20 min Scan# 3453

Delta R.T. 0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

Instrument :

BNA_M

ClientSampleId :

C0AC6

Tgt Ion: 252 Resp: 3607533

Ion Ratio Lower Upper

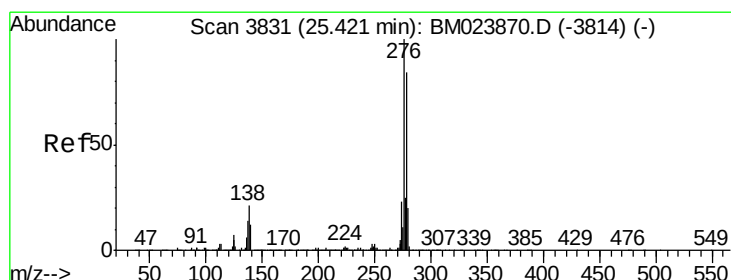
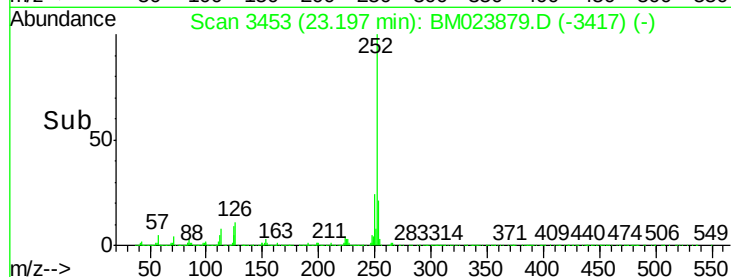
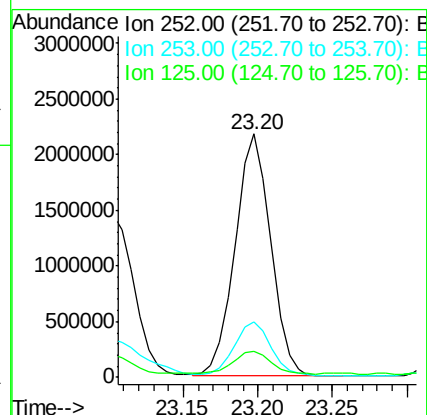
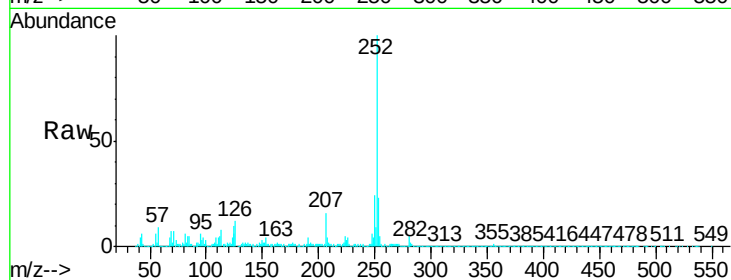
252 100

253 23.0 17.3 25.9

125 10.4 6.9 10.3#

Manual Integrations
APPROVED

mohammad
11/25/2019 8:21:08 AM



#92

Indeno(1,2,3-cd)pyrene

Concen: 16.050 ng/ul

RT: 25.43 min Scan# 3833

Delta R.T. 0.01 min

Lab File: BM023879.D

Acq: 23 Nov 2019 04:33

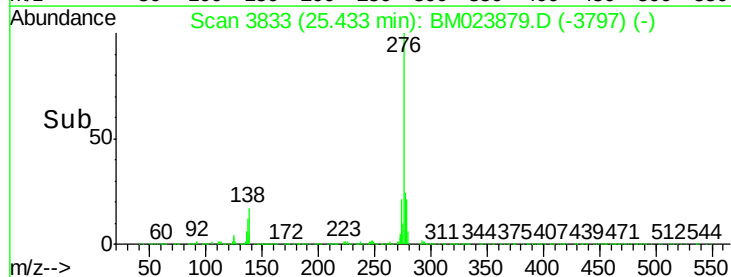
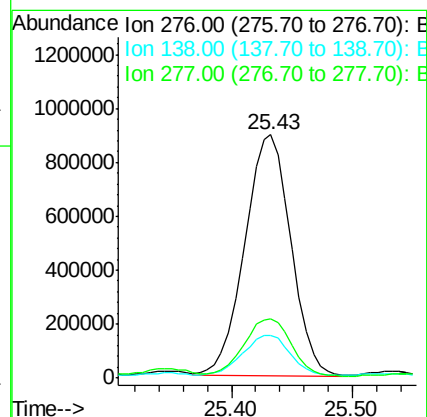
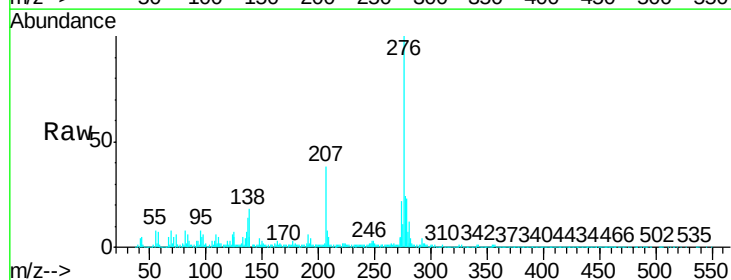
Tgt Ion: 276 Resp: 2375117

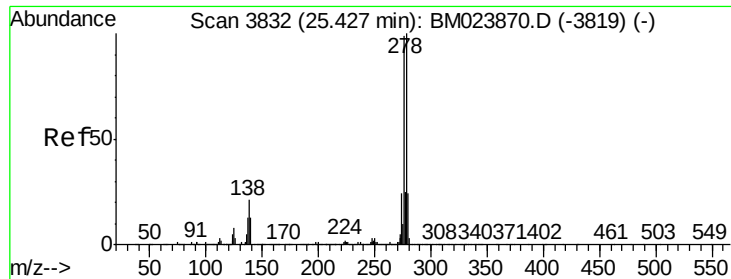
Ion Ratio Lower Upper

276 100

138 17.5 15.0 22.4

277 24.4 20.0 30.0





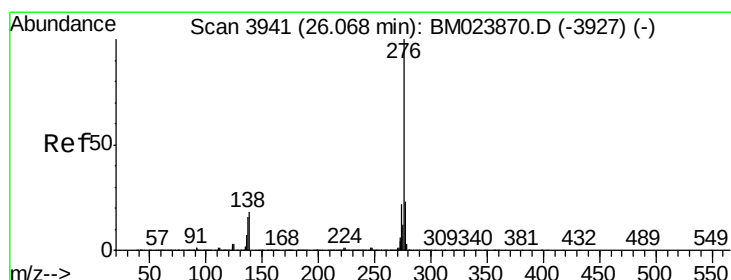
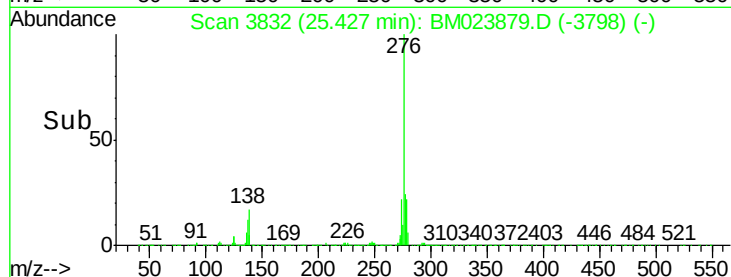
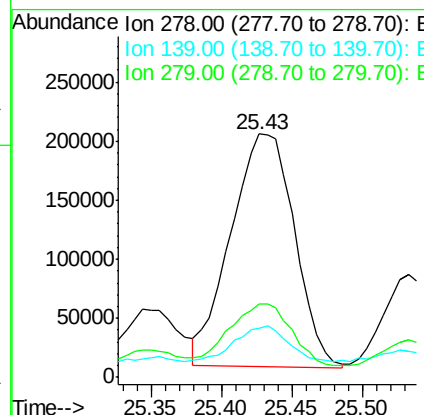
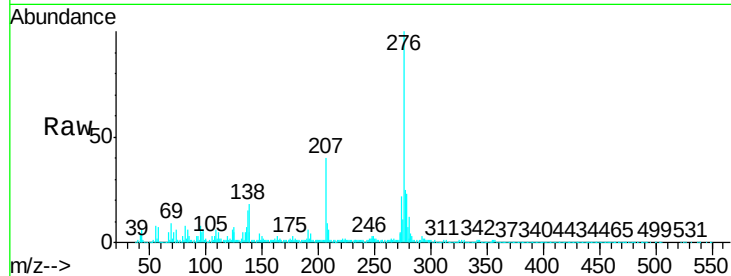
#93
Dibenzo(a,h)anthracene
Concen: 4.971 ng/ul
RT: 25.43 min Scan# 3832
Delta R.T. 0.00 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Instrument :
BNA_M
ClientSampleId :
C0AC6

Tgt Ion	Ratio	Lower	Upper
278	100		
139	19.9	10.0	15.0#
279	30.1	19.0	28.6#

Manual Integrations
APPROVED

mohammad
11/25/2019 8:21:08 AM



#94
Benzo(g,h,i)perylene
Concen: 17.987 ng/ul
RT: 26.09 min Scan# 3944
Delta R.T. 0.02 min
Lab File: BM023879.D
Acq: 23 Nov 2019 04:33

Tgt Ion	Ratio	Lower	Upper
276	100		
138	18.0	13.2	19.8
277	24.2	18.6	28.0

