

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052219\
 Data File : BM020504.D
 Acq On : 22 May 2019 22:48
 Operator : JU/SJ
 Sample : K2927-03
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 A4294

Manual Integrations
 APPROVED

mohammad
 5/23/2019 2:22:29 PM

Quant Time: May 23 08:37:25 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu May 23 07:52:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.67	152	68694	20.00	ng/ul	0.00
18) Naphthalene-d8	10.47	136	261720	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.34	164	162717	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.09	188	402838	20.00	ng/ul	0.00
77) Chrysene-d12	21.29	240	443099	20.00	ng/ul	0.00
85) Perylene-d12	23.54	264	526998	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.15	96	9428m	5.06	ng/uL	0.00
5) Phenol-d5	6.85	99	138664	25.30	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.02	67	87901	25.23	ng/ul	0.00
9) 2-Chlorophenol-d4	7.21	132	106524	26.50	ng/ul	0.00
13) 4-Methylphenol-d8	8.39	113	91903	23.03	ng/ul	0.00
19) Nitrobenzene-d5	8.85	128	46423	27.26	ng/ul	0.00
22) 2-Nitrophenol-d4	9.56	143	55223	29.40	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.10	165	108114	27.23	ng/ul	0.00
29) 4-Chloroaniline-d4	10.62	131	70335	17.15	ng/ul	0.00
43) Dimethylphthalate-d6	13.75	166	325200	27.78	ng/ul	0.00
46) Acenaphthylene-d8	14.03	160	400008	27.32	ng/ul	0.00
51) 4-Nitrophenol-d4	14.57	143	32674	19.22	ng/ul	0.00
57) Fluorene-d10	15.33	176	287835	27.65	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.49	200	30291	13.20	ng/ul	0.00
70) Anthracene-d10	17.19	188	474098	27.44	ng/ul	0.00
78) Pyrene-d10	19.50	212	575149	26.95	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.40	264	630520	26.33	ng/ul	0.00

Target Compounds

					Ovalue	
28) Naphthalene	10.52	128	14202	1.181	ng/ul	98
34) 2-Methylnaphthalene	12.14	142	11513	1.322	ng/ul	100
44) Dimethylphthalate	13.80	163	113888	9.834	ng/ul	97
47) Acenaphthylene	14.06	152	219250	15.877	ng/ul	99
49) Acenaphthene	14.40	153	36222	3.815	ng/ul	97
53) Dibenzofuran	14.74	168	64798	4.507	ng/ul	99
58) Fluorene	15.39	166	94252	8.184	ng/ul	97
69) Phenanthrene	17.14	178	1572434	81.922	ng/ul	99
71) Anthracene	17.23	178	424920	21.763	ng/ul	100
74) Carbazole	17.50	167	78175	4.717	ng/ul	97
76) Fluoranthene	19.16	202	2891056	119.238	ng/ul	99
79) Pyrene	19.53	202	2437714	91.658	ng/ul	99
80) Butylbenzylphthalate	20.42	149	11220	1.346	ng/ul#	86
82) Benzo(a)anthracene	21.27	228	1462792	54.850	ng/ul	96
83) Bis(2-ethylhexyl)phthalate	21.19	149	38573	3.187	ng/ul#	98
84) Chrysene	21.33	228	1239982	48.652	ng/ul	96
87) Benzo(b)fluoranthene	22.87	252	1777488	59.098	ng/ul	97
88) Benzo(k)fluoranthene	22.90	252	534105m	18.079	ng/ul	
90) Benzo(a)pyrene	23.45	252	1281513	45.275	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.83	276	870289	26.983	ng/ul#	97
92) Dibenzo(a,h)anthracene	25.83	278	278069	10.082	ng/ul#	90
93) Benzo(a,h,i)perylene	26.54	276	641231	24.018	ng/ul	98

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052219\
Data File : BM020504.D
Acq On : 22 May 2019 22:48
Operator : JU/SJ
Sample : K2927-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
A4294

Manual Integrations
APPROVED

mohammad
5/23/2019 2:22:29 PM

Quant Time: May 23 08:37:25 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu May 23 07:52:10 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
--------------------	------	------	----------	------	-------	----------

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

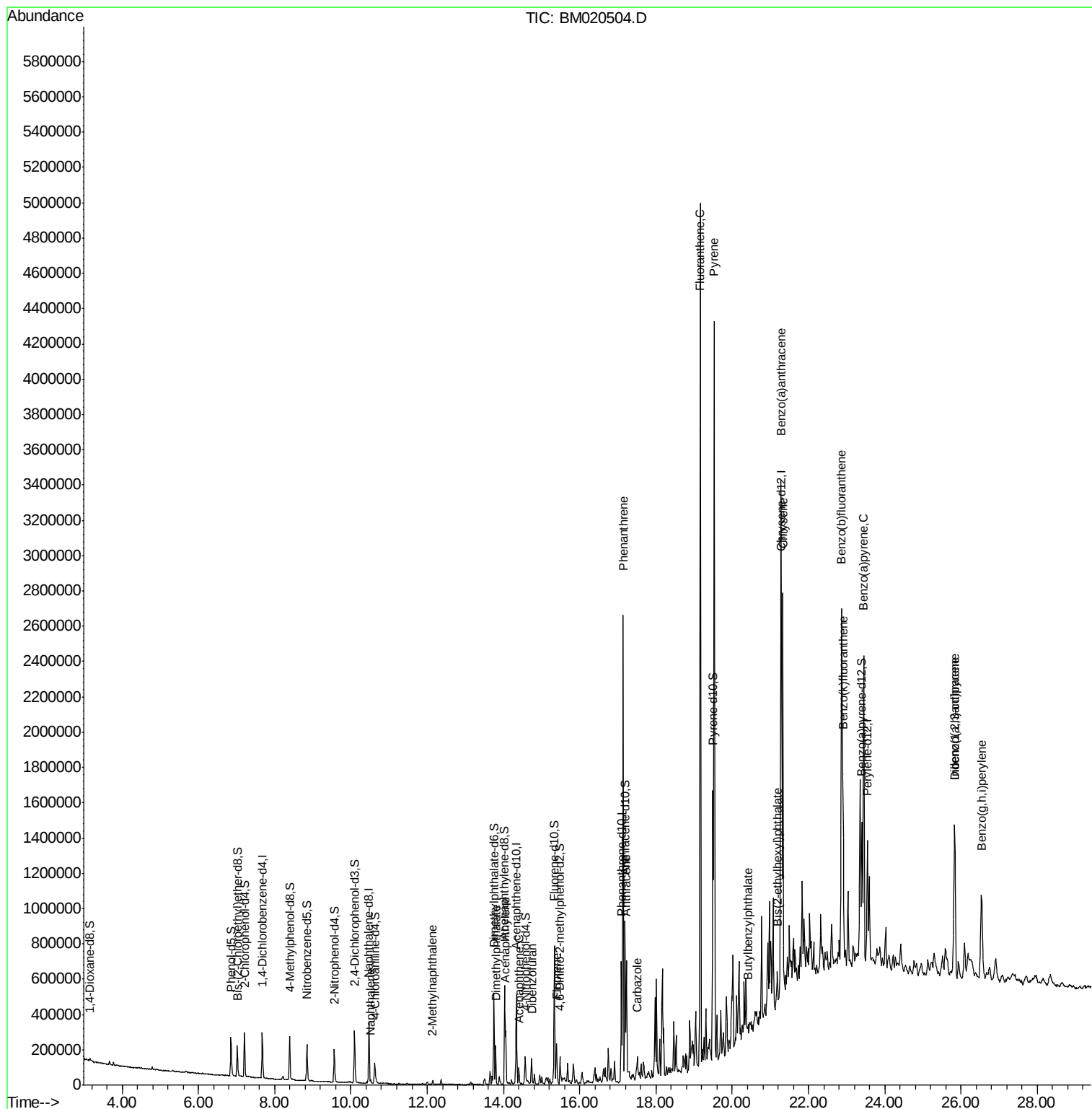
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM052219\
Data File : BM020504.D
Acq On : 22 May 2019 22:48
Operator : JU/SJ
Sample : K2927-03
Misc :
ALS Vial : 10 Sample Multiplier: 1

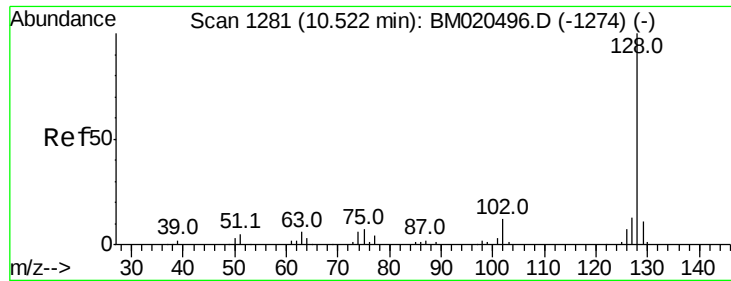
Instrument :
BNA_M
ClientSampleId :
A4294

Quant Time: May 23 08:37:25 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM051619MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu May 23 07:52:10 2019
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
5/23/2019 2:22:29 PM





#28

Naphthalene

Concen: 1.181 ng/ul

RT: 10.52 min Scan# 1281

Delta R.T. -0.00 min

Lab File: BM020504.D

Acq: 22 May 2019 22:48

Instrument :

BNA_M

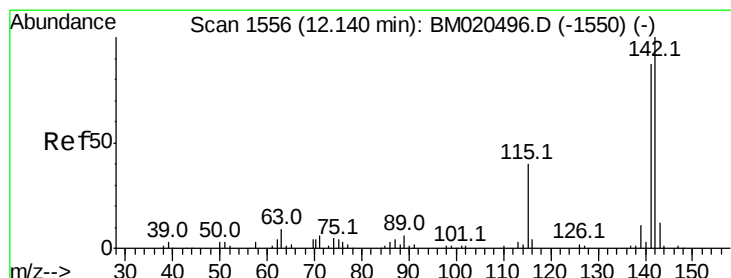
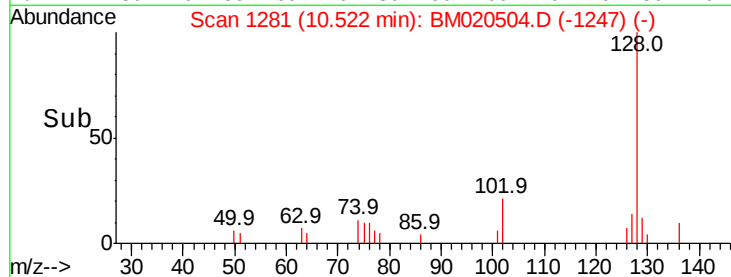
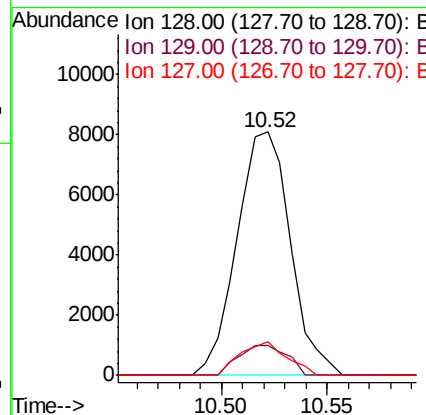
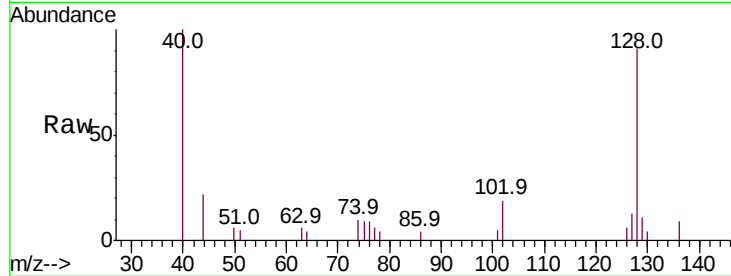
ClientSampled :

A4294

Tot Ion:	128	Resp:	14202
Ion Ratio	Lower	Upper	
128	100		
129	12.0	8.6	13.0
127	13.8	10.6	15.8

Manual Integrations
APPROVED

mohammad
5/23/2019 2:22:29 PM



#34

2-Methylnaphthalene

Concen: 1.322 ng/ul

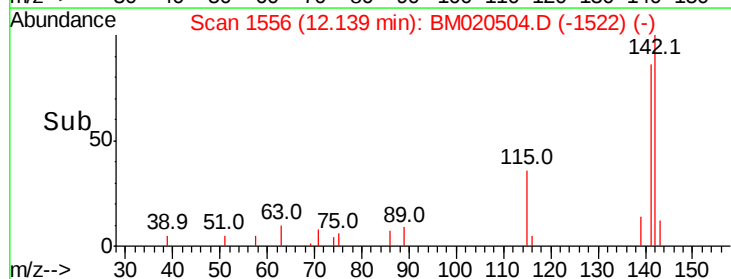
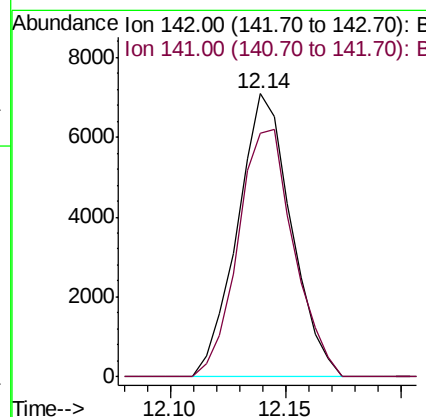
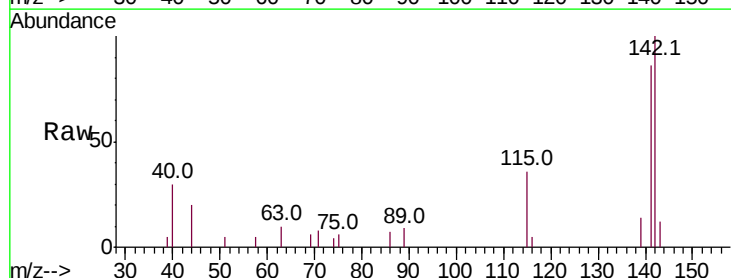
RT: 12.14 min Scan# 1556

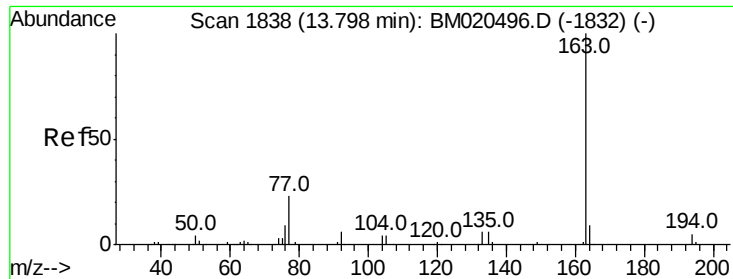
Delta R.T. -0.00 min

Lab File: BM020504.D

Acq: 22 May 2019 22:48

Tgt Ion:	142	Resp:	11513
Ion Ratio	Lower	Upper	
142	100		
141	86.1	68.6	102.8





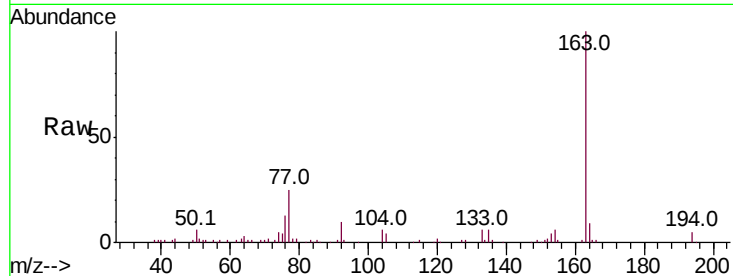
#44
Dimethylphthalate
Concen: 9.834 ng/ul
RT: 13.80 min Scan# 1838
Delta R.T. -0.00 min
Lab File: BM020504.D
Acq: 22 May 2019 22:48

Instrument :
BNA_M
ClientSampled :
A4294

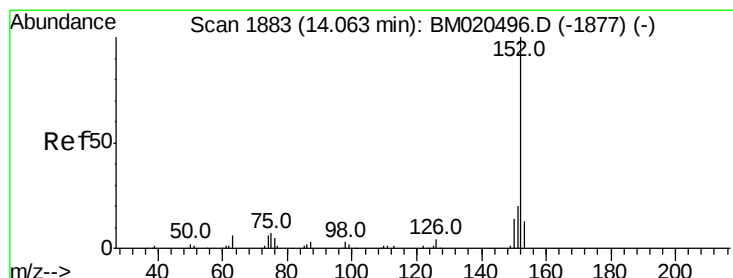
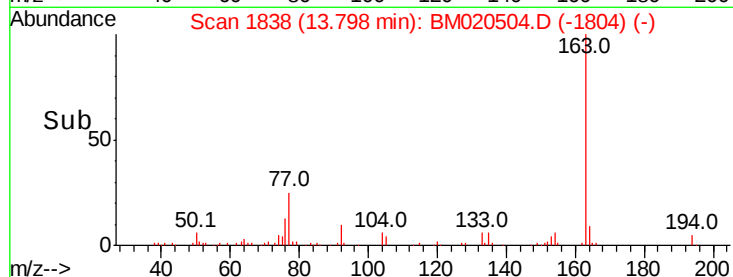
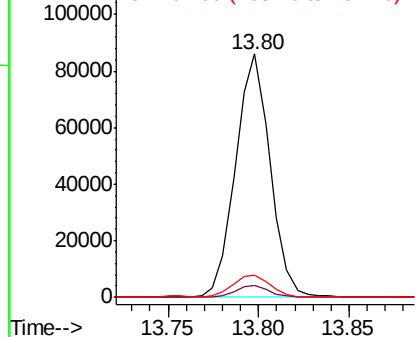
Tot Ion:	163	Resp:	113888
Ion Ratio	Lower	Upper	
163	100		
194	4.9	3.3	4.9
164	9.0	8.0	12.0

Manual Integrations
APPROVED

mohammad
5/23/2019 2:22:29 PM



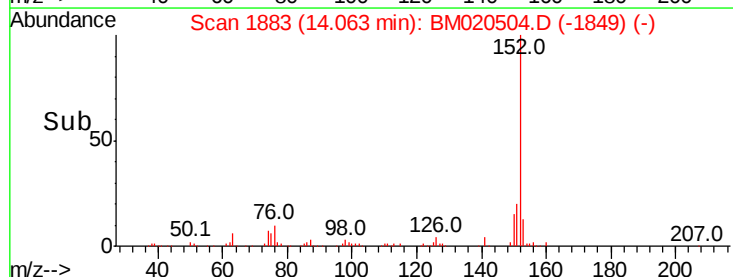
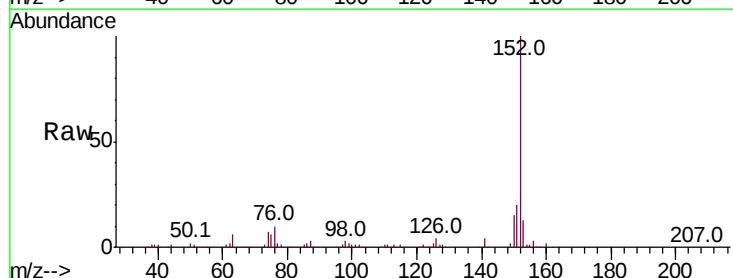
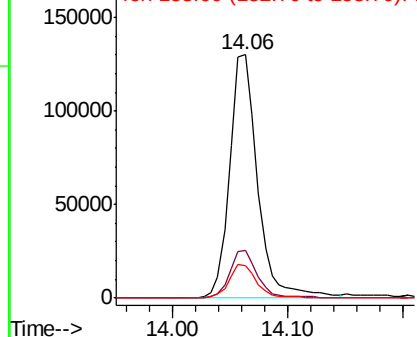
Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

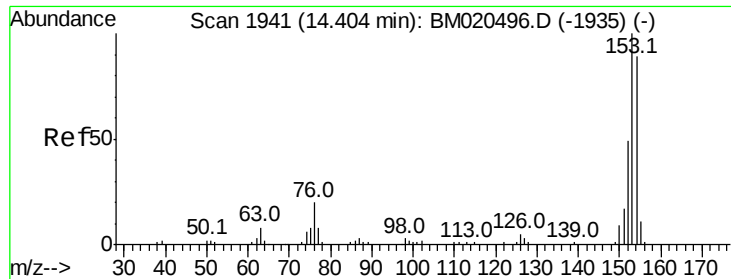


#47
Acenaphthylene
Concen: 15.877 ng/ul
RT: 14.06 min Scan# 1883
Delta R.T. -0.00 min
Lab File: BM020504.D
Acq: 22 May 2019 22:48

Tgt Ion:	152	Resp:	219250
Ion Ratio	Lower	Upper	
152	100		
151	19.7	15.4	23.0
153	13.4	10.3	15.5

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: 3.815 ng/ul

RT: 14.40 min Scan# 1941

Delta R.T. -0.00 min

Lab File: BM020504.D

Acq: 22 May 2019 22:48

Instrument :

BNA_M

ClientSampleId :

A4294

Tot Ion:153 Resp: 36222

Ion Ratio Lower Upper

153 100

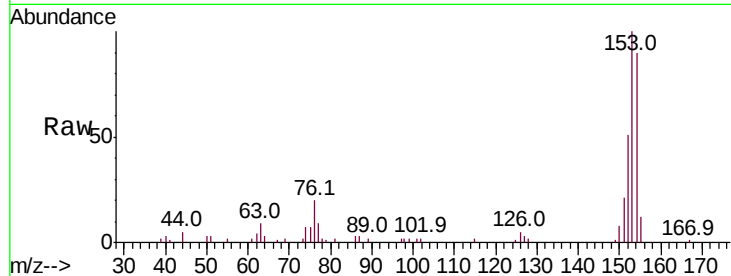
152 51.0 37.9 56.9

154 89.9 71.2 106.8

Manual Integrations
APPROVED

mohammad

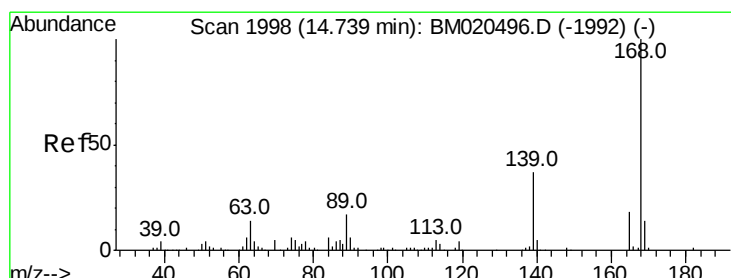
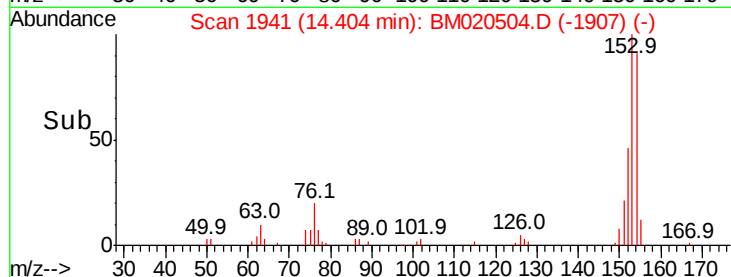
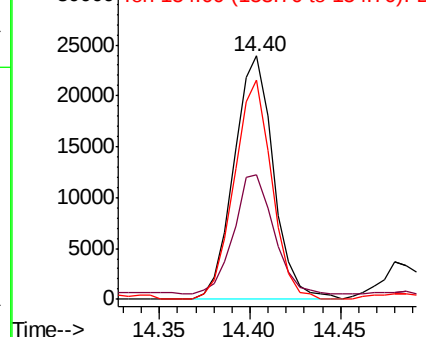
5/23/2019 2:22:29 PM



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

Dibenzofuran

Concen: 4.507 ng/ul

RT: 14.74 min Scan# 1998

Delta R.T. -0.00 min

Lab File: BM020504.D

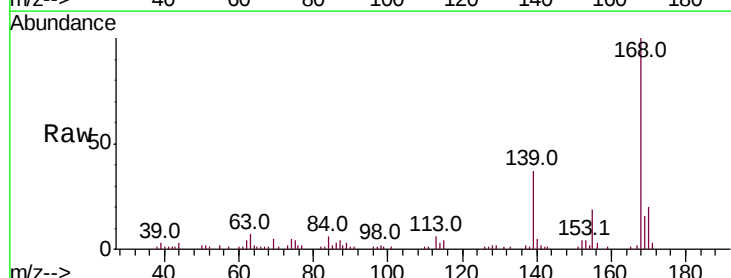
Acq: 22 May 2019 22:48

Tgt Ion:168 Resp: 64798

Ion Ratio Lower Upper

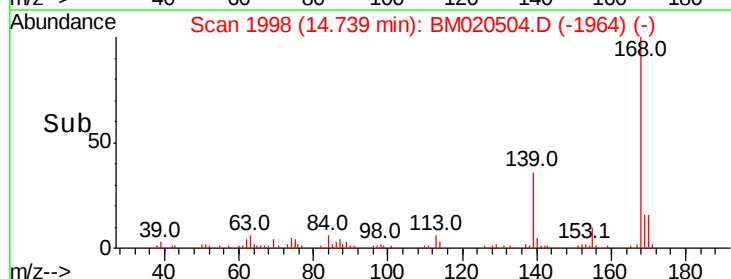
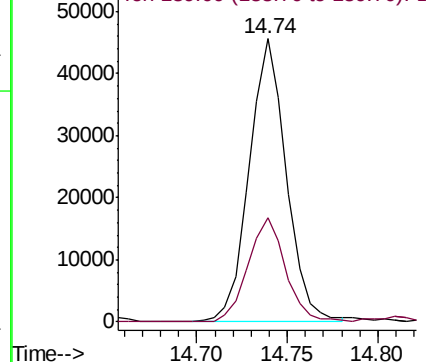
168 100

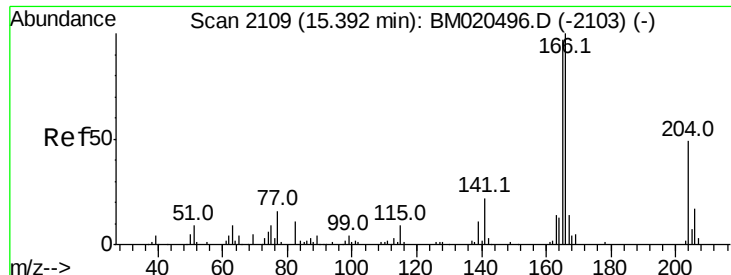
139 36.8 30.1 45.1



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





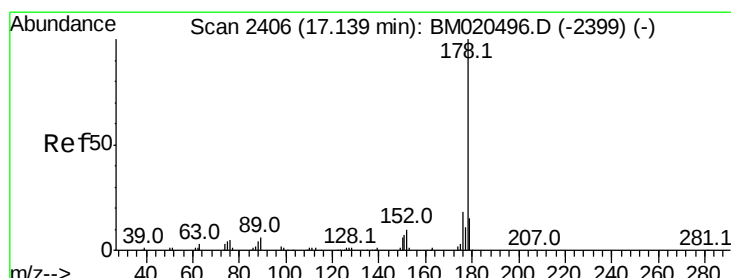
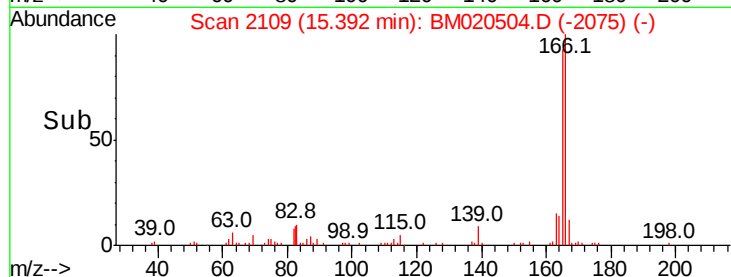
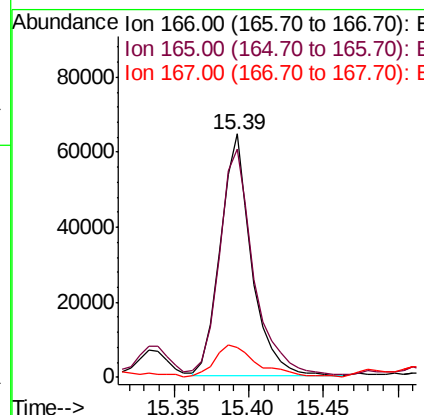
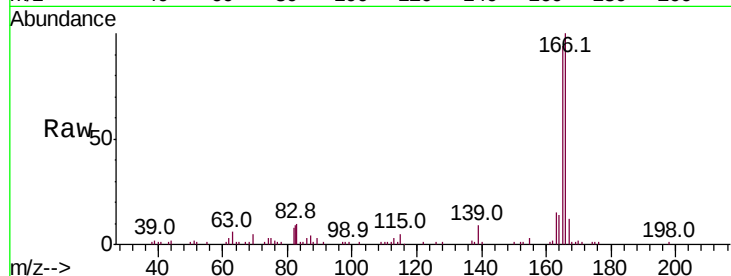
#58
 Fluorene
 Concen: 8.184 ng/ul
 RT: 15.39 min Scan# 2109
 Delta R.T. -0.00 min
 Lab File: BM020504.D
 Acq: 22 May 2019 22:48

Instrument :
 BNA_M
 ClientSampleId :
 A4294

Tot Ion	Ratio	Lower	Upper
166	100		
165	93.9	77.1	115.7
167	12.4	11.1	16.7

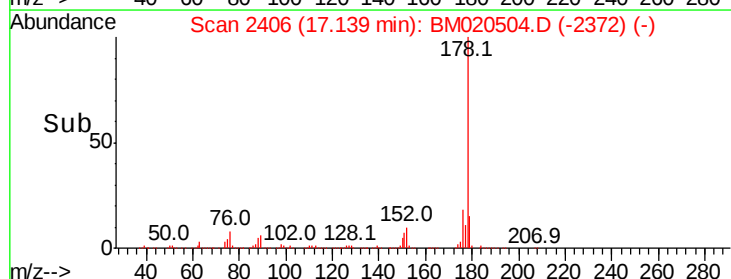
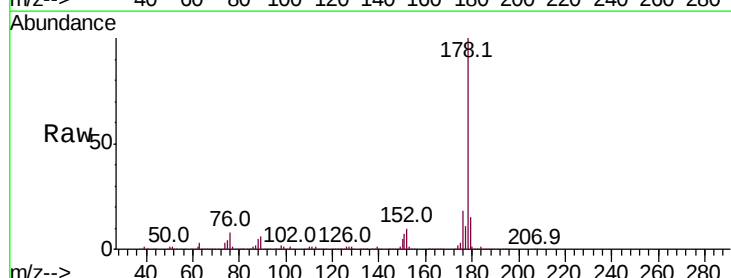
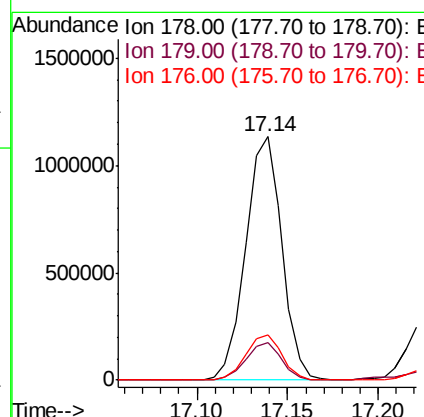
Manual Integrations
 APPROVED

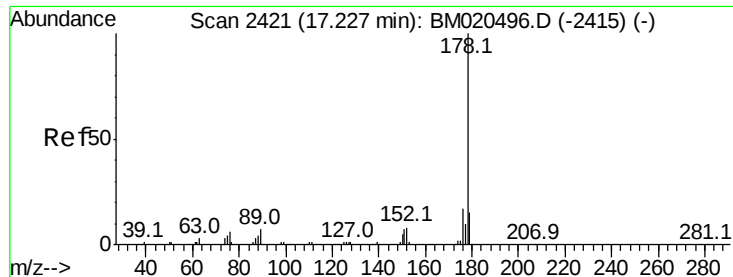
mohammad
 5/23/2019 2:22:29 PM



#69
 Phenanthrene
 Concen: 81.922 ng/ul
 RT: 17.14 min Scan# 2406
 Delta R.T. -0.00 min
 Lab File: BM020504.D
 Acq: 22 May 2019 22:48

Tgt Ion	Ratio	Lower	Upper
178	100		
179	15.4	11.9	17.9
176	18.3	14.6	22.0





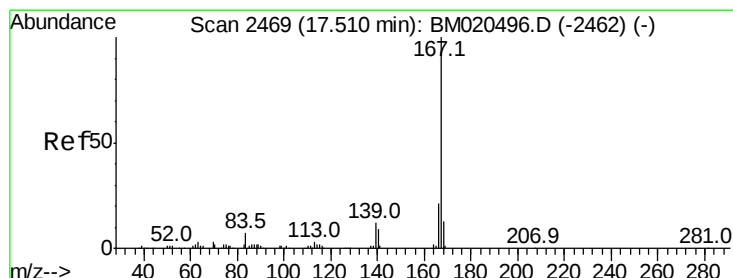
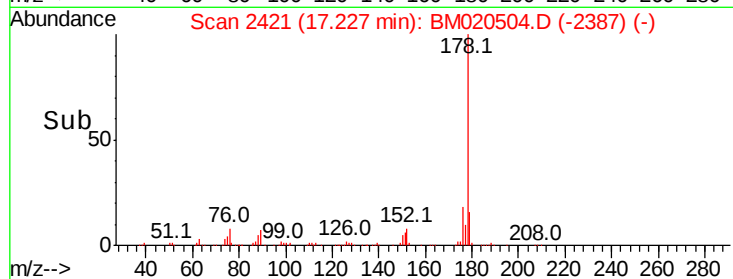
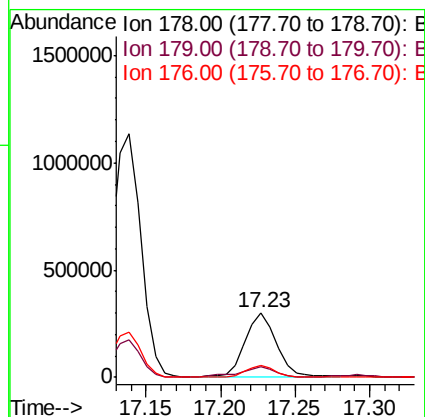
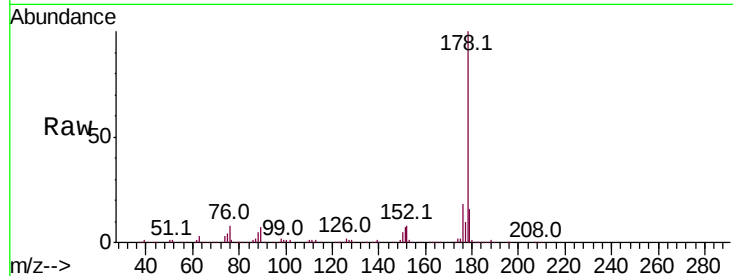
#71
 Anthracene
 Concen: 21.763 ng/ul
 RT: 17.23 min Scan# 2421
 Delta R.T. -0.00 min
 Lab File: BM020504.D
 Acq: 22 May 2019 22:48

Instrument :
 BNA_M
 ClientSampleId :
 A4294

Tot Ion	Ratio	Lower	Upper
178	100		
179	15.7	12.4	18.6
176	17.9	14.4	21.6

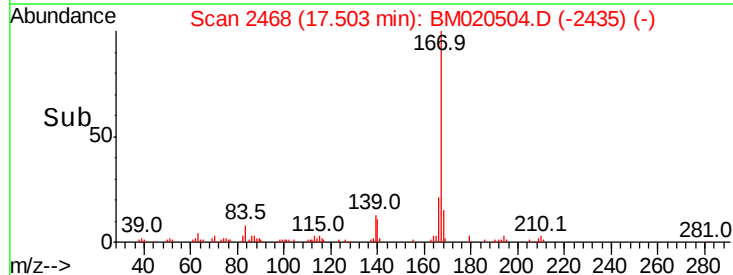
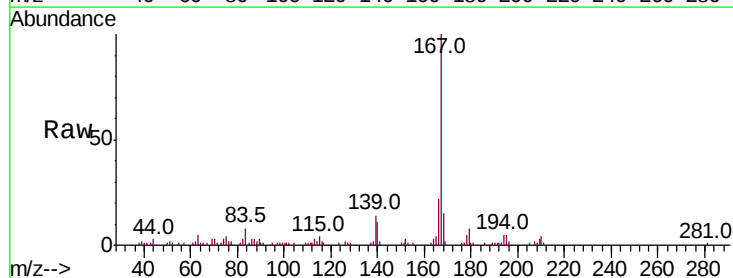
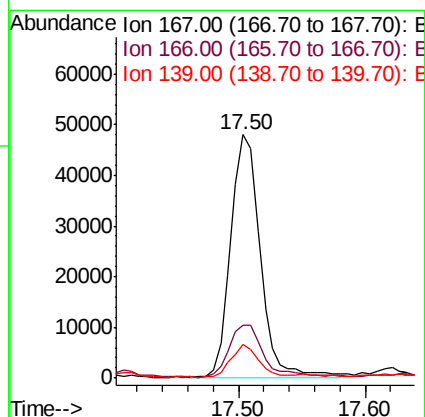
Manual Integrations
 APPROVED

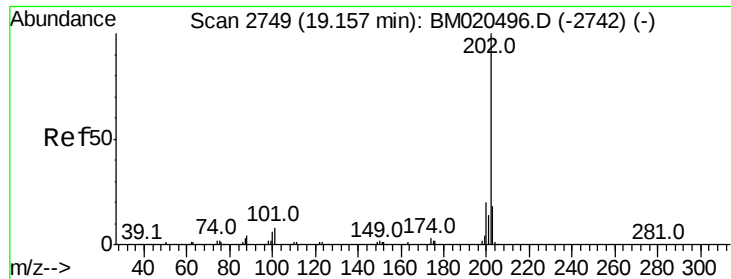
mohammad
 5/23/2019 2:22:29 PM



#74
 Carbazole
 Concen: 4.717 ng/ul
 RT: 17.50 min Scan# 2468
 Delta R.T. -0.01 min
 Lab File: BM020504.D
 Acq: 22 May 2019 22:48

Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	16.6	24.8
139	14.0	9.8	14.8





#76

Fluoranthene

Concen: 119.238 ng/ul

RT: 19.16 min Scan# 2750

Delta R.T. 0.01 min

Lab File: BM020504.D

Acq: 22 May 2019 22:48

Instrument :

BNA_M

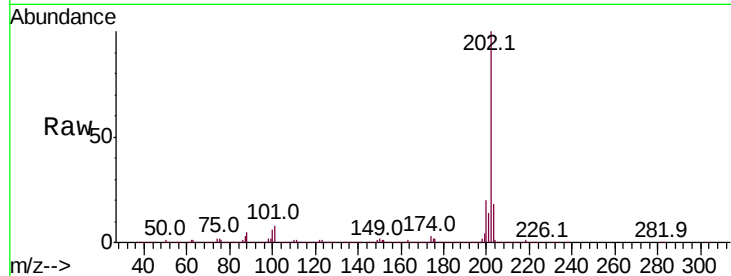
ClientSampled :

A4294

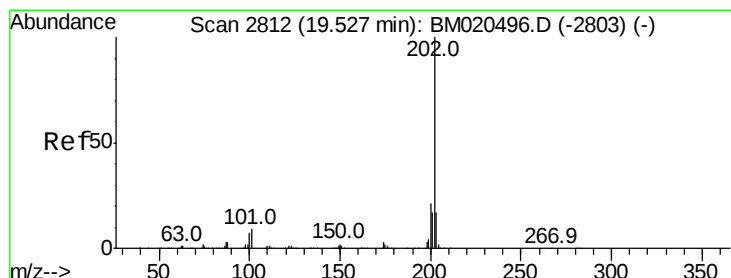
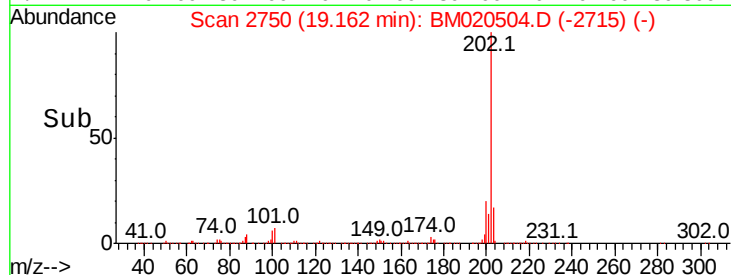
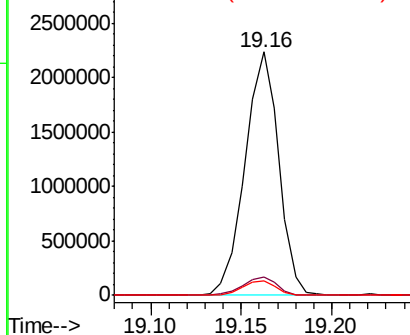
Tot Ion:	202	Resp:	2891056
Ion Ratio	Lower	Upper	
202	100		
101	7.6	6.4	9.6
100	6.1	5.2	7.8

Manual Integrations
APPROVED

mohammad
5/23/2019 2:22:29 PM



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 91.658 ng/ul

RT: 19.53 min Scan# 2812

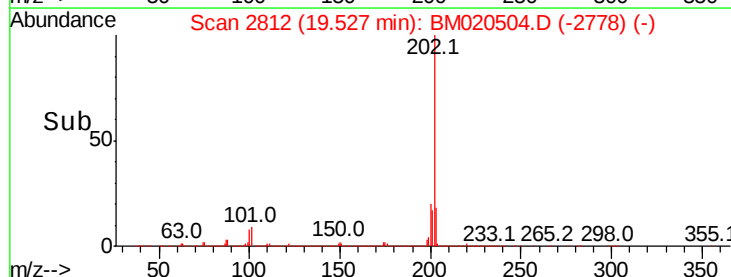
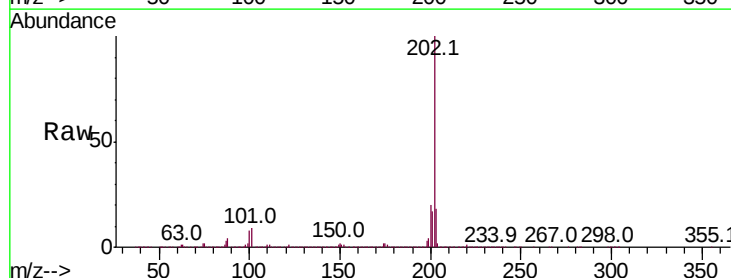
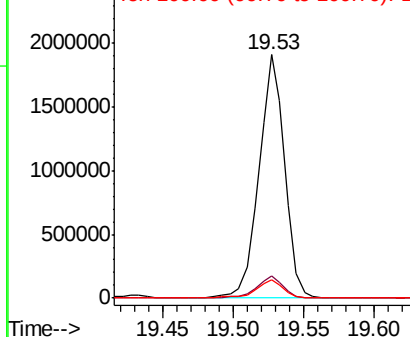
Delta R.T. -0.00 min

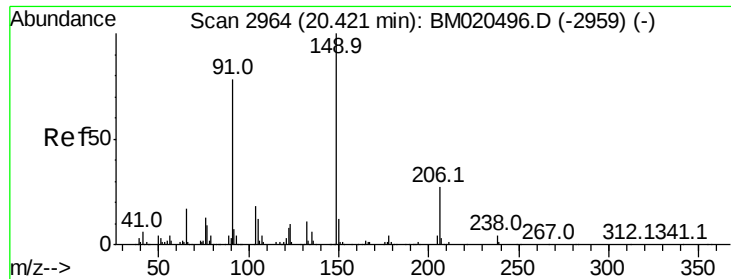
Lab File: BM020504.D

Acq: 22 May 2019 22:48

Tgt Ion:	202	Resp:	2437714
Ion Ratio	Lower	Upper	
202	100		
101	9.1	7.1	10.7
100	7.6	5.9	8.9

Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 100.00 (99.70 to 100.70): B





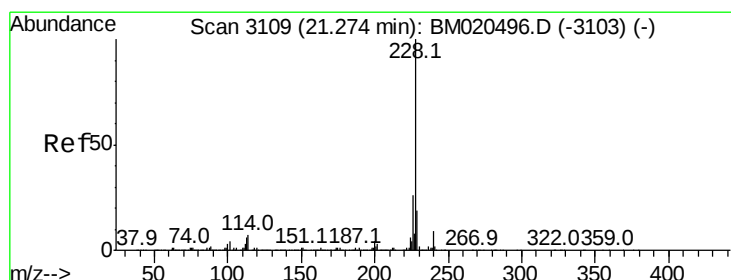
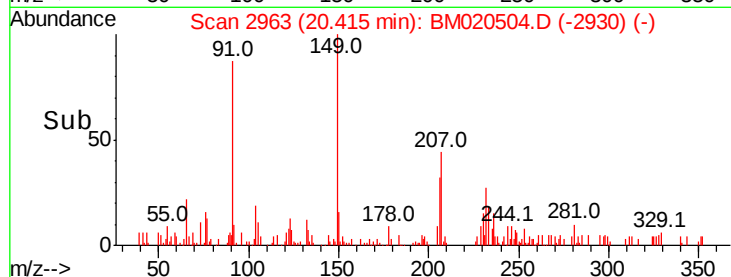
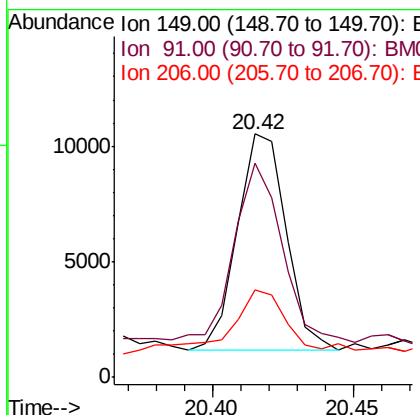
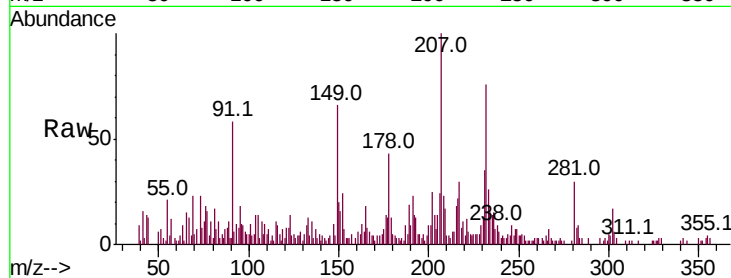
#80
Butylbenzylphthalate
Concen: 1.346 ng/ul
RT: 20.42 min Scan# 2963
Delta R.T. -0.01 min
Lab File: BM020504.D
Acq: 22 May 2019 22:48

Instrument :
BNA_M
ClientSampled :
A4294

Tot Ion	Ratio	Lower	Upper
149	100		
91	87.8	63.0	94.4
206	36.1	18.2	27.4

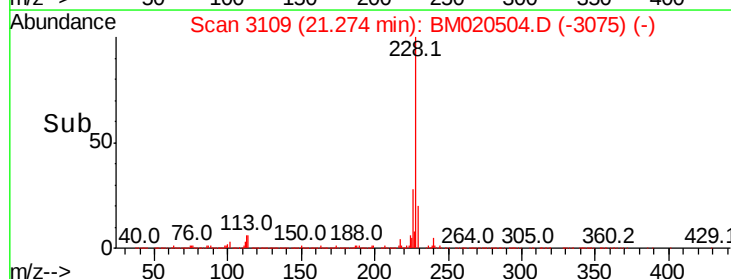
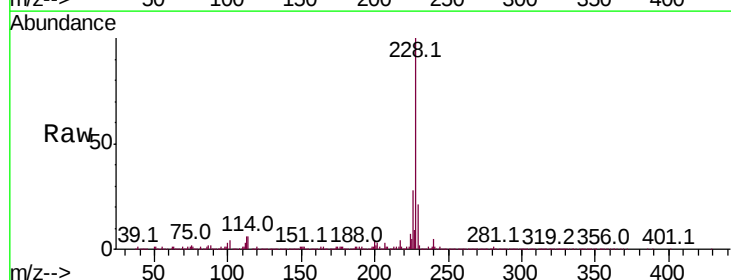
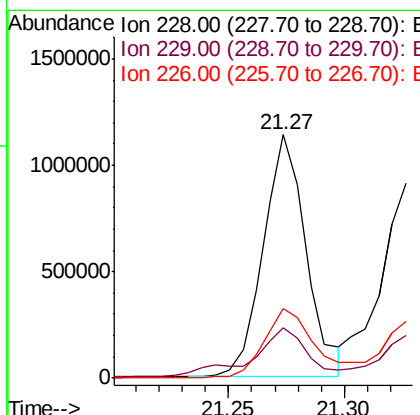
Manual Integrations
APPROVED

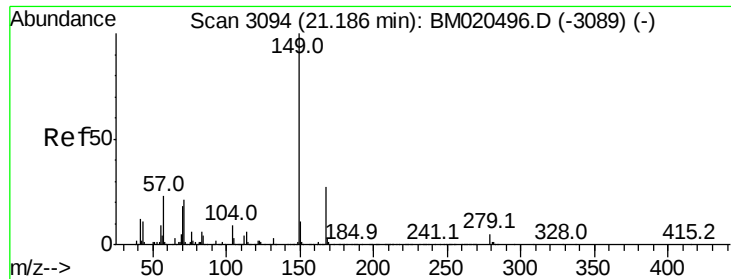
mohammad
5/23/2019 2:22:29 PM



#82
Benzo(a)anthracene
Concen: 54.850 ng/ul
RT: 21.27 min Scan# 3109
Delta R.T. -0.00 min
Lab File: BM020504.D
Acq: 22 May 2019 22:48

Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.6	15.8	23.8
226	28.3	20.6	30.8





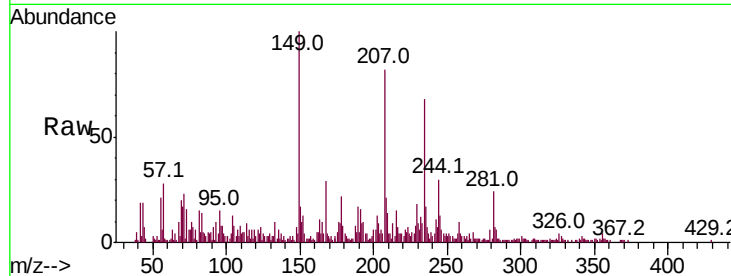
#83
Bis(2-ethylhexyl)phthalate
Concen: 3.187 ng/ul
RT: 21.19 min Scan# 3094
Delta R.T. -0.00 min
Lab File: BM020504.D
Acq: 22 May 2019 22:48

Instrument :
BNA_M
ClientSampleId :
A4294

Tot Ion	Ratio	Lower	Upper
149	100		
167	29.2	22.5	33.7
279	6.3	4.2	6.2

Manual Integrations
APPROVED

mohammad
5/23/2019 2:22:29 PM

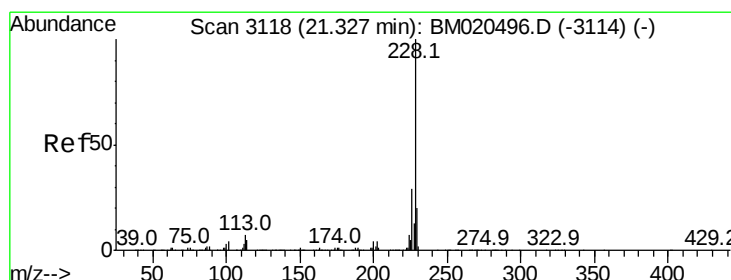
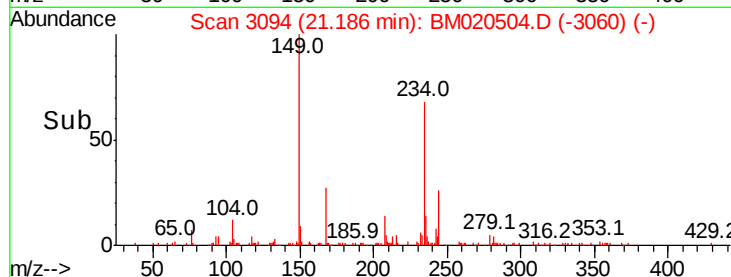
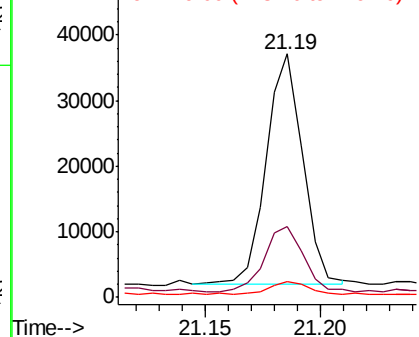


Abundance

Ion 149.00 (148.70 to 149.70): E

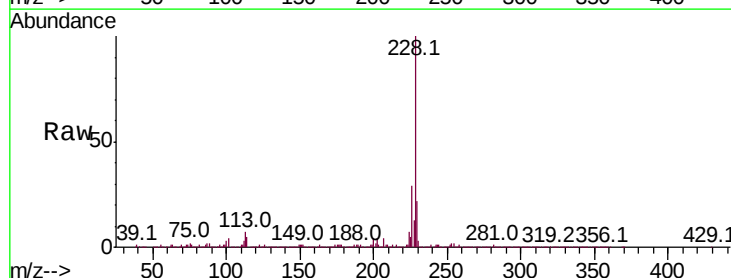
Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#84
Chrysene
Concen: 48.652 ng/ul
RT: 21.33 min Scan# 3118
Delta R.T. -0.00 min
Lab File: BM020504.D
Acq: 22 May 2019 22:48

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.2	22.2	33.4
229	22.2	15.4	23.2

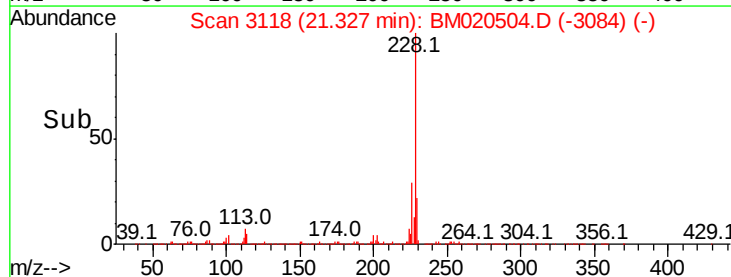
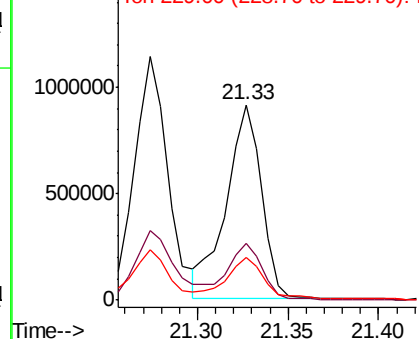


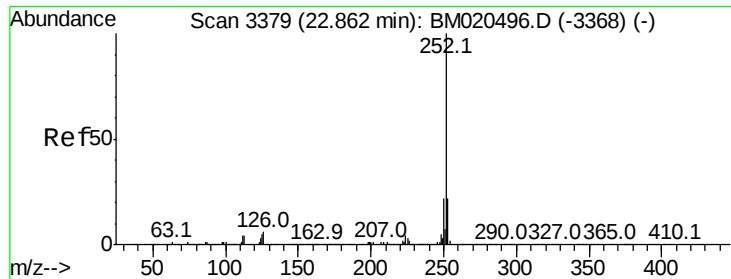
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





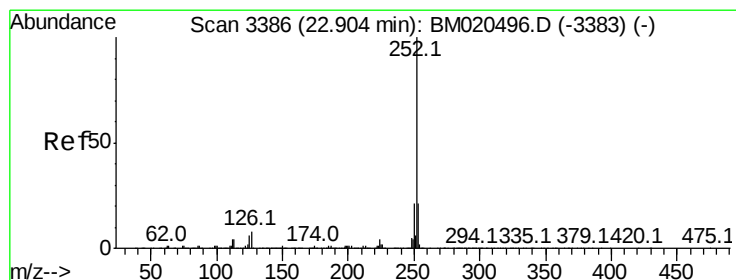
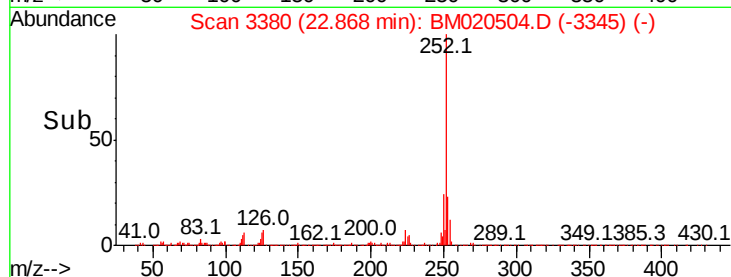
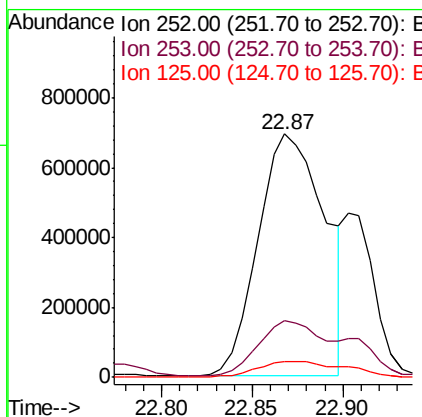
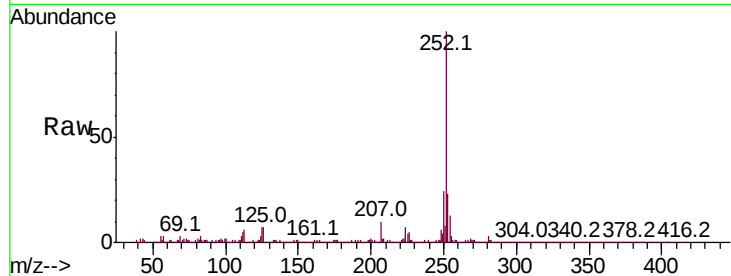
#87
Benzo(b)fluoranthene
Concen: 59.098 ng/ul
RT: 22.87 min Scan# 3380
Delta R.T. 0.01 min
Lab File: BM020504.D
Acq: 22 May 2019 22:48

Instrument :
BNA_M
ClientSampleId :
A4294

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	6.6	5.0	7.4

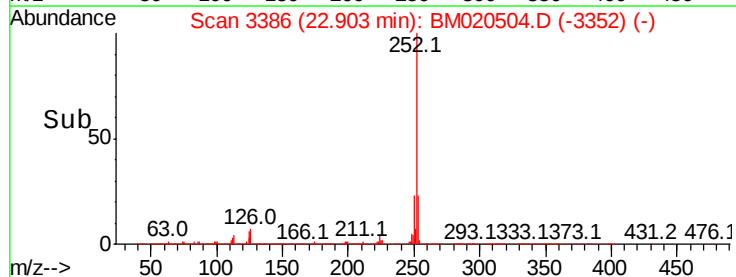
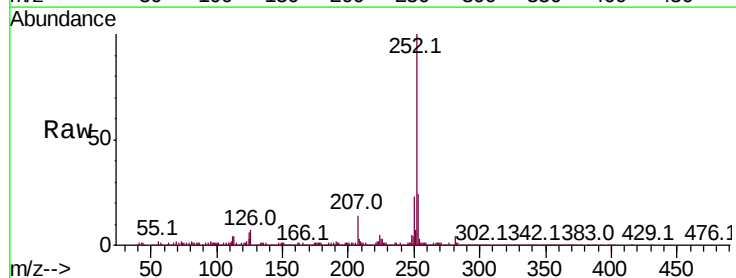
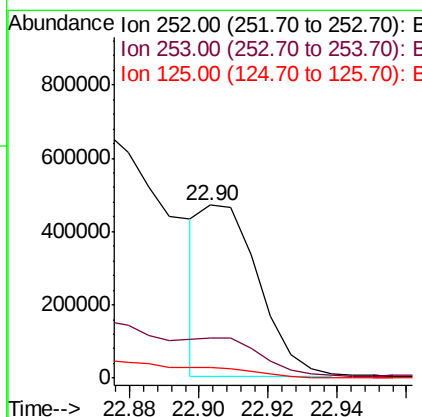
Manual Integrations
APPROVED

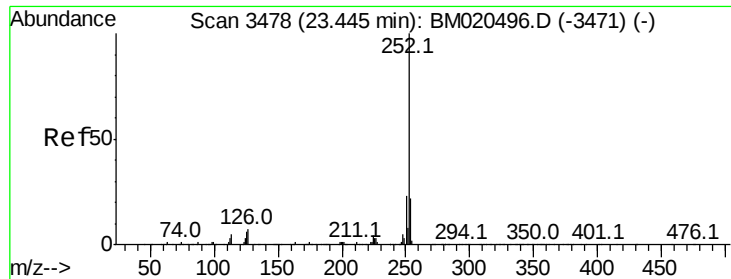
mohammad
5/23/2019 2:22:29 PM



#88
Benzo(k)fluoranthene
Concen: 18.079 ng/ul m
RT: 22.90 min Scan# 3386
Delta R.T. -0.00 min
Lab File: BM020504.D
Acq: 22 May 2019 22:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.6	26.4
125	6.4	5.0	7.6





#90

Benzo(a)pyrene

Concen: 45.275 ng/ul

RT: 23.45 min Scan# 3479

Delta R.T. 0.01 min

Lab File: BM020504.D

Acq: 22 May 2019 22:48

Instrument :

BNA_M

ClientSampleId :

A4294

Tot Ion:252 Resp: 1281513

Ion Ratio Lower Upper

252 100

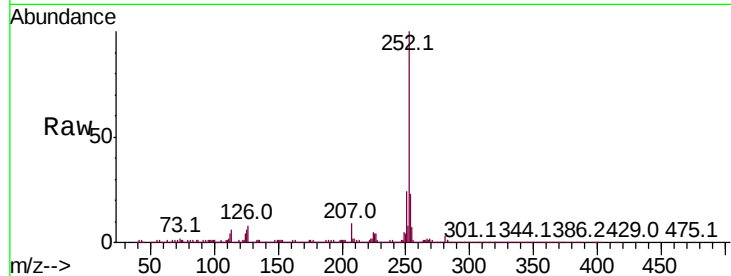
253 23.0 17.4 26.2

125 6.3 5.4 8.2

Manual Integrations
APPROVED

mohammad

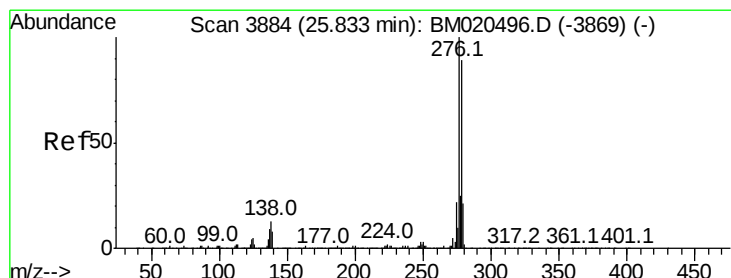
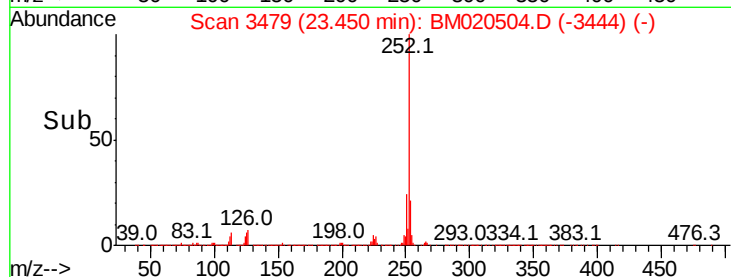
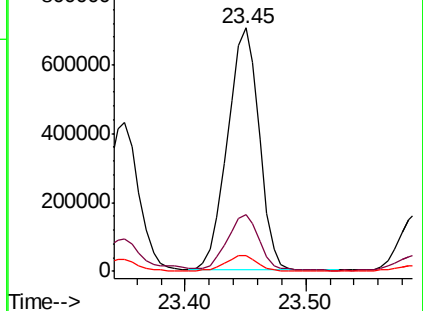
5/23/2019 2:22:29 PM



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Indeno(1,2,3-cd)pyrene

Concen: 26.983 ng/ul

RT: 25.83 min Scan# 3884

Delta R.T. -0.00 min

Lab File: BM020504.D

Acq: 22 May 2019 22:48

Tgt Ion:276 Resp: 870289

Ion Ratio Lower Upper

276 100

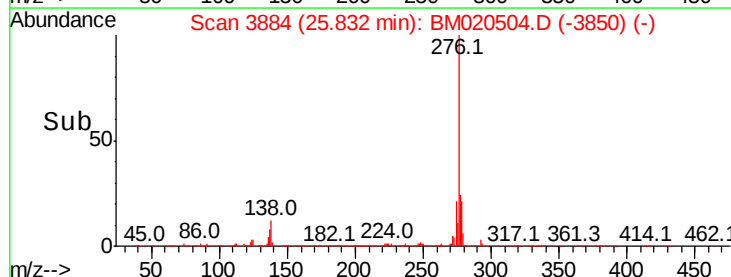
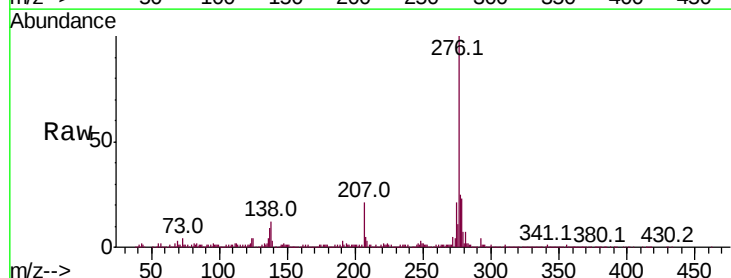
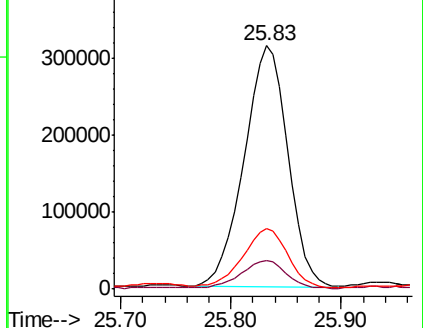
138 11.8 12.3 18.5#

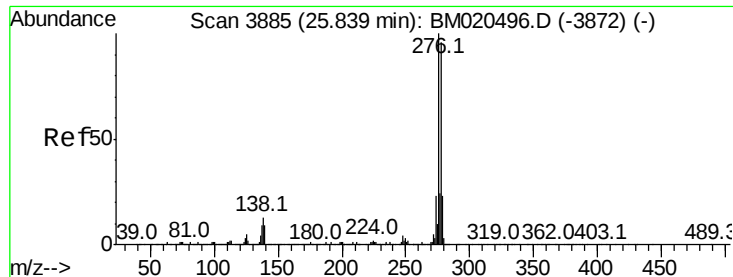
277 24.9 20.0 30.0

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





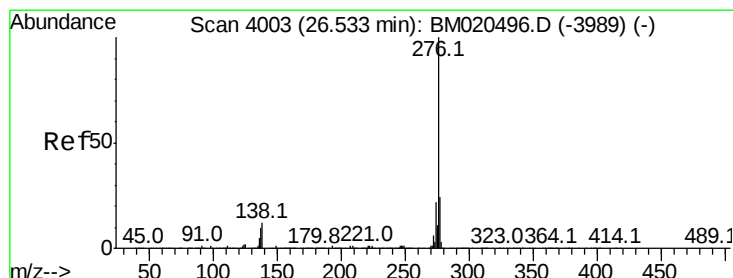
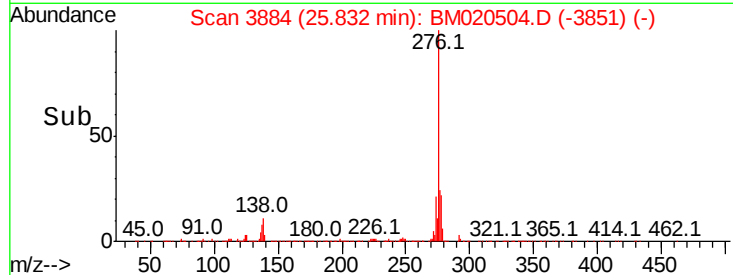
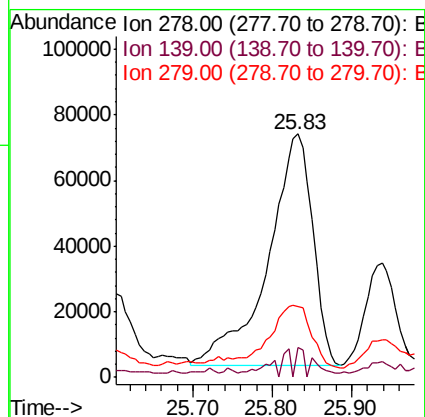
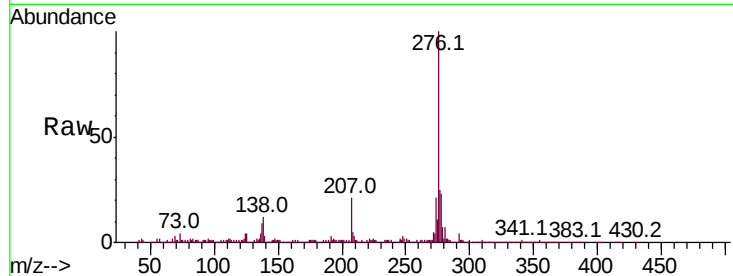
#92
 Dibenzo(a,h)anthracene
 Concen: 10.082 ng/ul
 RT: 25.83 min Scan# 3884
 Delta R.T. -0.01 min
 Lab File: BM020504.D
 Acq: 22 May 2019 22:48

Instrument :
 BNA_M
 ClientSampleId :
 A4294

Tot Ion:	278	Resp:	278069
Ion Ratio	Lower	Upper	
278	100		
139	12.4	8.1	12.1#
279	28.9	18.7	28.1#

Manual Integrations
 APPROVED

mohammad
 5/23/2019 2:22:29 PM



#93
 Benzo(g,h,i)perylene
 Concen: 24.018 ng/ul
 RT: 26.54 min Scan# 4004
 Delta R.T. 0.01 min
 Lab File: BM020504.D
 Acq: 22 May 2019 22:48

Tgt Ion:	276	Resp:	641231
Ion Ratio	Lower	Upper	
276	100		
138	11.7	10.0	15.0
277	23.9	18.2	27.4

