

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051021\
 Data File : BM029926.D
 Acq On : 11 May 2021 04:36
 Operator : CG/JU
 Sample : M2177-21
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BG591

Manual Integrations
 APPROVED

mohammad
 5/11/2021 2:33:36 PM

Quant Time: May 11 08:58:10 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM050721.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 11 01:19:00 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.55	152	135991	20.00	ng/ul	0.00
20) Naphthalene-d8	10.32	136	624540	20.00	ng/ul	0.00
38) Acenaphthene-d10	14.20	164	414107	20.00	ng/ul	0.00
64) Phenanthrene-d10	16.94	188	856332	20.00	ng/ul	0.00
79) Chrysene-d12	21.13	240	728817	20.00	ng/ul	0.00
88) Perylene-d12	23.29	264	643796	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.09	96	2364m	0.69	ng/uL	0.02
4) Pyridine-d5	0.00	84	0d	0.00	ng/ul	
7) Phenol-d5	6.75	99	27062	2.14	ng/ul	0.01
9) Bis-(2-Chloroethyl)ether-d	6.91	67	20113	2.56	ng/ul	0.01
11) 2-Chlorophenol-d4	7.10	132	28199	2.89	ng/ul	0.01
15) 4-Methylphenol-d8	8.28	113	23091	2.21	ng/ul	0.01
21) Nitrobenzene-d5	8.72	128	11374	2.64	ng/ul	0.01
24) 2-Nitrophenol-d4	9.43	143	11609	2.39	ng/ul	0.01
28) 2,4-Dichlorophenol-d3	9.98	165	20936	2.15	ng/ul	0.02
31) 4-Chloroaniline-d4	10.50	131	23593m	1.59	ng/ul	0.03
46) Dimethylphthalate-d6	13.62	166	109694	3.42	ng/ul	0.00
49) Acenaphthylene-d8	13.89	160	130857	3.22	ng/ul	0.00
54) 4-Nitrophenol-d4	14.54	143	4089m	0.78	ng/ul	0.12
60) Fluorene-d10	15.20	176	103903	3.81	ng/ul	0.00
65) 4,6-Dinitro-2-methylphenol	15.34	200	4316m	0.78	ng/ul	0.01
73) Anthracene-d10	17.04	188	169068	3.92	ng/ul	0.00
81) Pyrene-d10	19.34	212	178537	4.78	ng/ul	0.00
92) Benzo(a)pyrene-d12	23.15	264	131533	3.60	ng/ul	0.00

Target Compounds

					Ovalue
30) Naphthalene	10.37	128	222915	6.430	ng/ul 100
36) 2-Methylnaphthalene	12.00	142	92757	3.689	ng/ul 99
37) 1-Methylnaphthalene	12.22	142	87807	3.523	ng/ul# 93
52) Acenaphthene	14.26	153	240768	8.660	ng/ul 98
56) Dibenzofuran	14.60	168	102305	2.687	ng/ul 94
61) Fluorene	15.25	166	168151	5.165	ng/ul 98
72) Phenanthrene	16.99	178	2400256	47.537	ng/ul 99
74) Anthracene	17.08	178	396603	7.683	ng/ul 98
77) Carbazole	17.36	167	209318	4.426	ng/ul 99
80) Fluoranthene	19.01	202	2993087	65.778	ng/ul 98
82) Pyrene	19.37	202	2622709	54.770	ng/ul 99
85) Benzo(a)anthracene	21.12	228	1255023	26.393	ng/ul 99
86) Bis(2-ethylhexyl)phthalate	21.06	149	79528	2.710	ng/ul 100
87) Chrysene	21.17	228	1187906	25.082	ng/ul 98
90) Benzo(b)fluoranthene	22.64	252	1478241	35.398	ng/ul 98
91) Benzo(k)fluoranthene	22.68	252	493427m	11.239	ng/ul
93) Benzo(a)pyrene	23.19	252	1006161	26.529	ng/ul 99
94) Indeno(1,2,3-cd)pyrene	25.43	276	667191	14.534	ng/ul 96
95) Dibenzo(a,h)anthracene	25.43	278	173301	4.454	ng/ul# 80
96) Benzo(a,h,i)perylene	26.09	276	542761	14.593	ng/ul 96

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051021\
Data File : BM029926.D
Acq On : 11 May 2021 04:36
Operator : CG/JU
Sample : M2177-21
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
BG591

Manual Integrations
APPROVED

mohammad
5/11/2021 2:33:36 PM

Quant Time: May 11 08:58:10 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM050721.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 11 01:19:00 2021
Response via : Initial Calibration

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

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

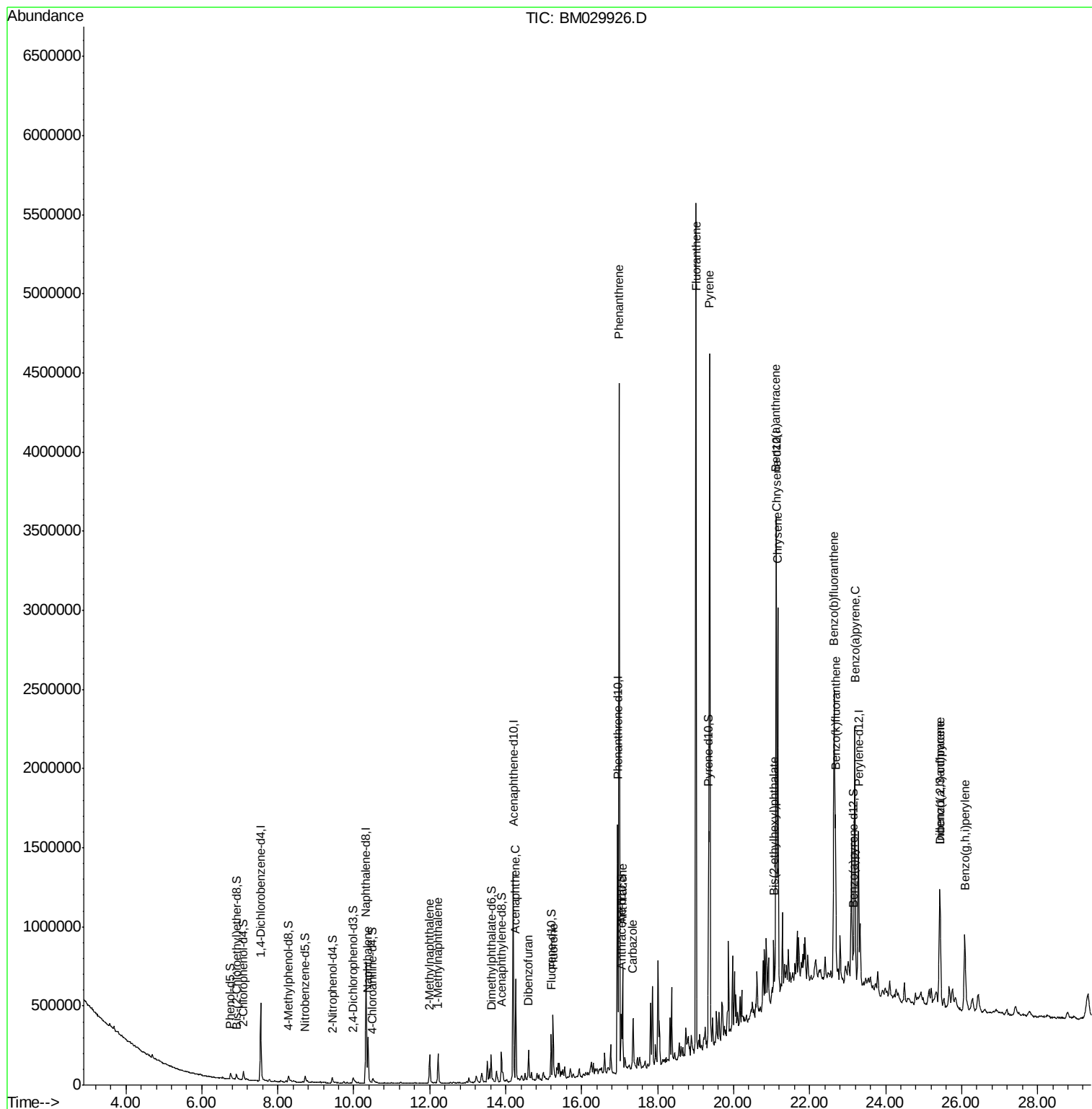
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM051021\
Data File : BM029926.D
Acq On : 11 May 2021 04:36
Operator : CG/JU
Sample : M2177-21
Misc :
ALS Vial : 25 Sample Multiplier: 1

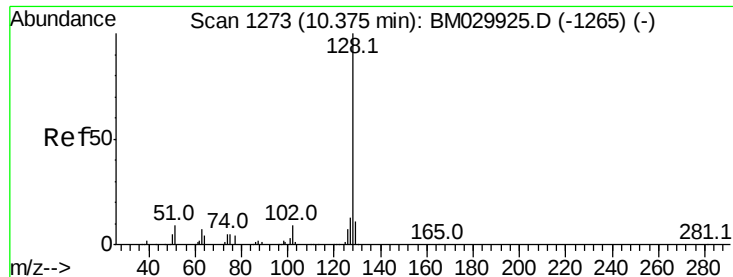
Instrument :
BNA_M
ClientSampleId :
BG591

Quant Time: May 11 08:58:10 2021
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_M\METHODS\SFAM-EPA-BM050721.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue May 11 01:19:00 2021
Response via : Initial Calibration

Manual Integrations
APPROVED

mohammad
5/11/2021 2:33:36 PM





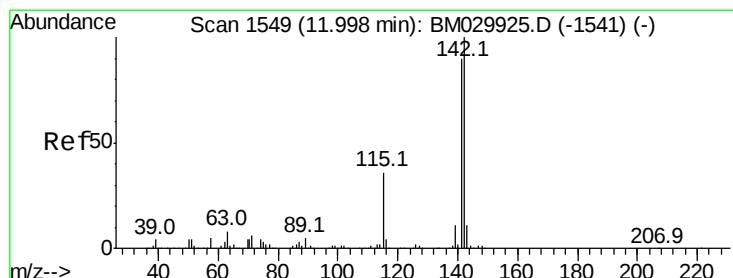
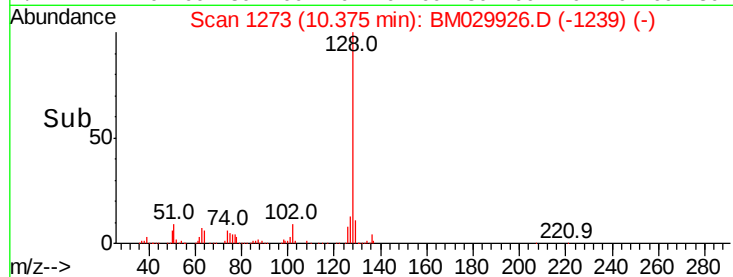
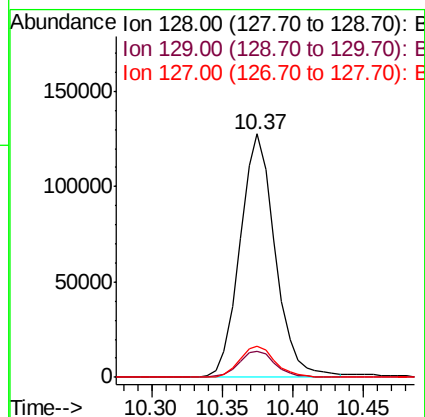
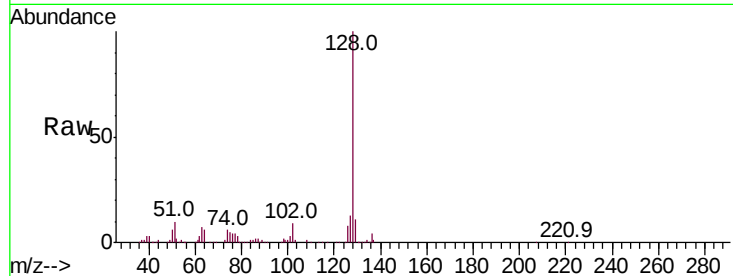
#30
Naphthalene
Concen: 6.430 ng/ul
RT: 10.37 min Scan# 1273
Delta R.T. 0.00 min
Lab File: BM029926.D
Acq: 11 May 2021 04:36

Instrument :
BNA_M
ClientSampleId :
BG591

Tot Ion:128	Resp:	222915
Ion Ratio	Lower	Upper
128 100		
129 10.8	8.5	12.7
127 13.0	10.4	15.6

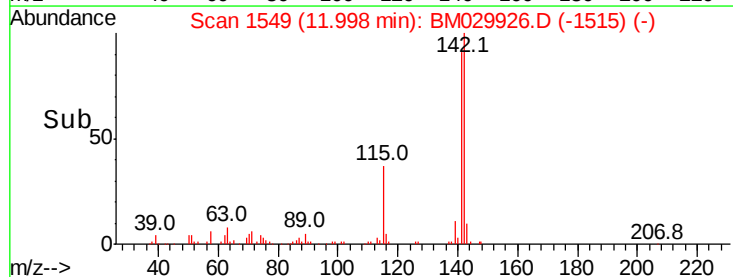
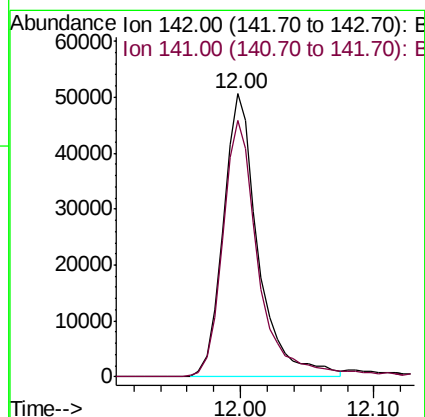
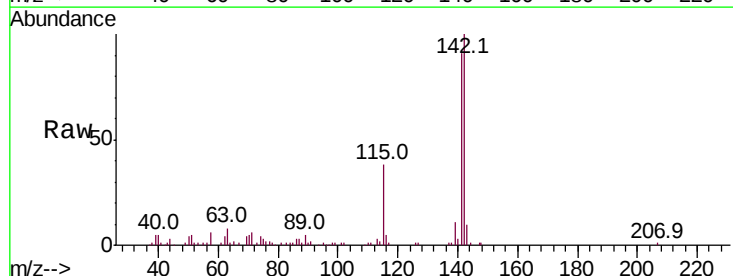
Manual Integrations
APPROVED

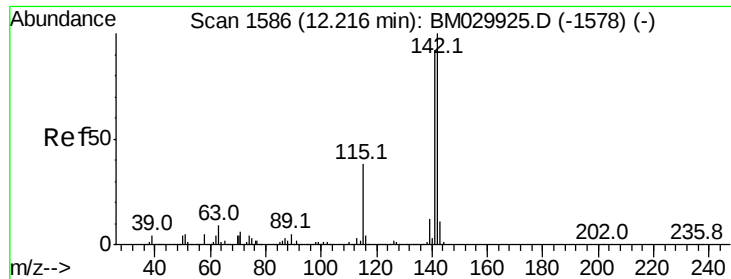
mohammad
5/11/2021 2:33:36 PM



#36
2-Methylnaphthalene
Concen: 3.689 ng/ul
RT: 12.00 min Scan# 1549
Delta R.T. 0.00 min
Lab File: BM029926.D
Acq: 11 May 2021 04:36

Tgt Ion:142	Resp:	92757
Ion Ratio	Lower	Upper
142 100		
141 90.8	72.1	108.1





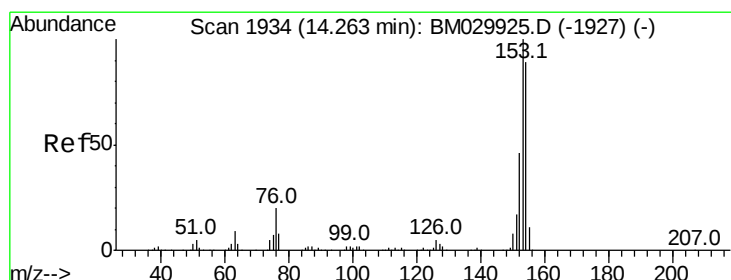
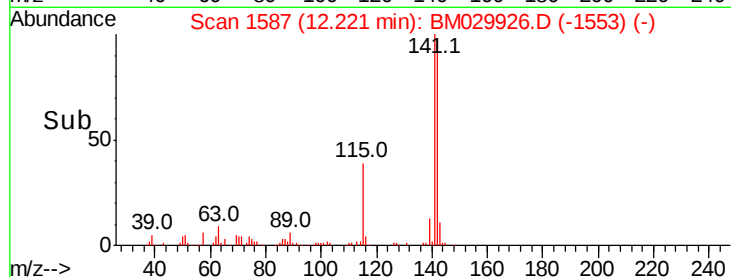
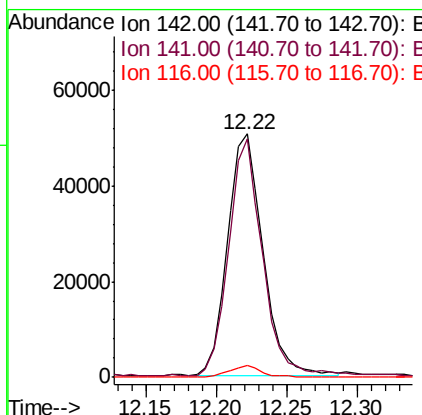
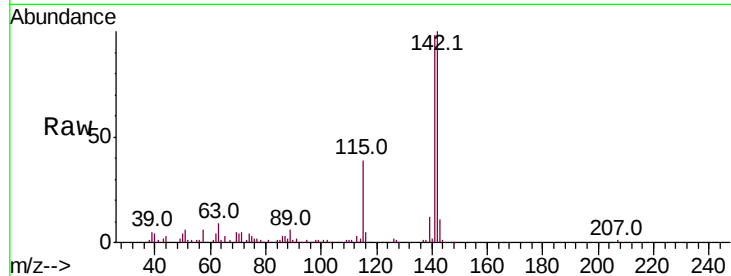
#37
 1-Methylnaphthalene
 Concen: 3.523 ng/ul
 RT: 12.22 min Scan# 1587
 Delta R.T. 0.00 min
 Lab File: BM029926.D
 Acq: 11 May 2021 04:36

Instrument :
 BNA_M
 ClientSampleId :
 BG591

Tot Ion	Ratio	Lower	Upper
142	100		
141	98.1	72.9	109.3
116	4.7	3.0	4.6#

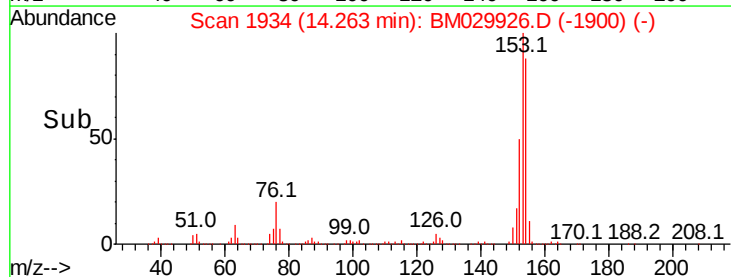
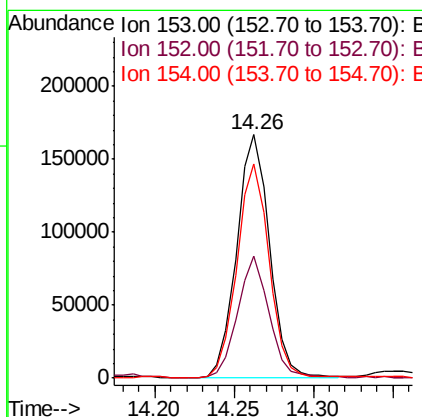
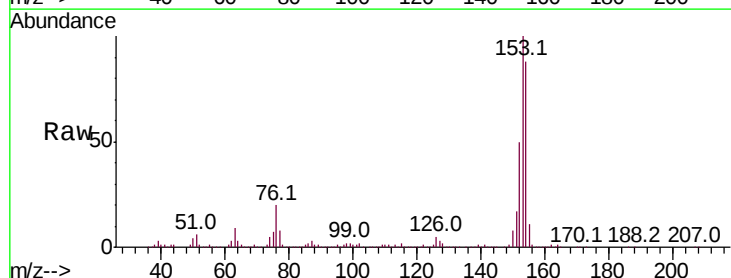
Manual Integrations
 APPROVED

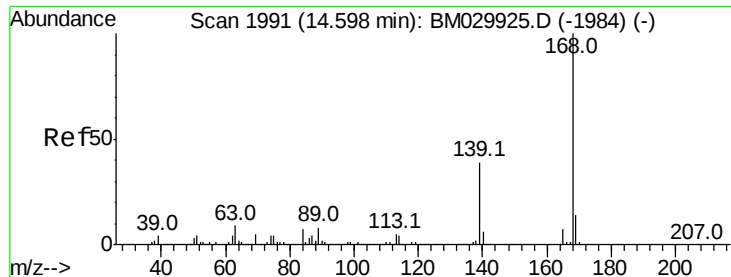
mohammad
 5/11/2021 2:33:36 PM



#52
 Acenaphthene
 Concen: 8.660 ng/ul
 RT: 14.26 min Scan# 1934
 Delta R.T. 0.00 min
 Lab File: BM029926.D
 Acq: 11 May 2021 04:36

Tgt Ion	Ratio	Lower	Upper
153	100		
152	49.9	37.7	56.5
154	88.0	70.2	105.4





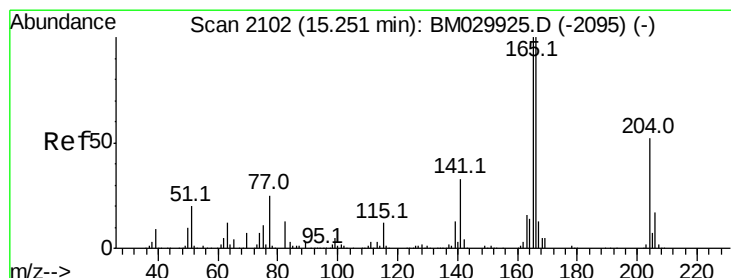
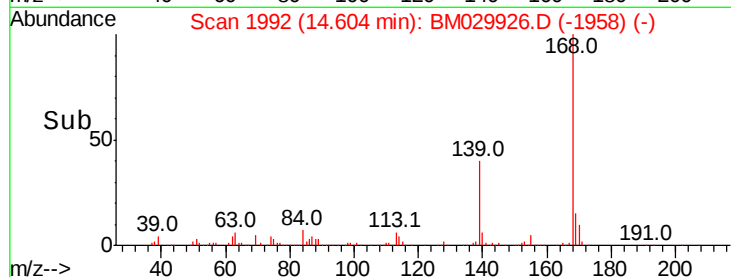
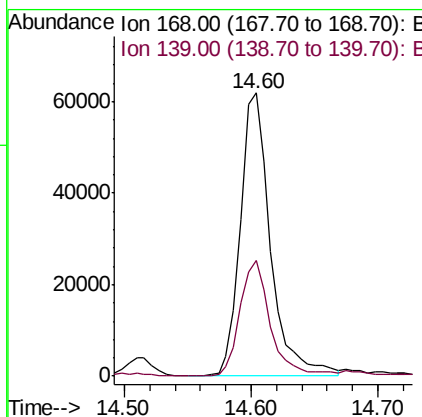
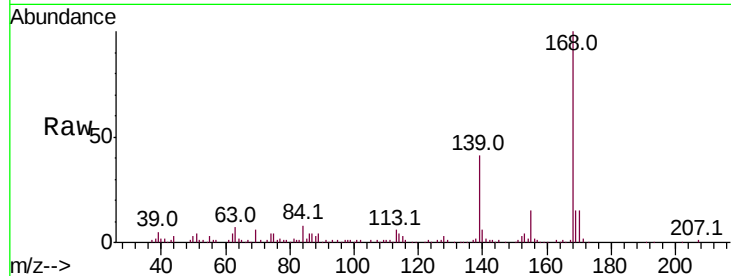
#56
Dibenzofuran
Concen: 2.687 ng/ul
RT: 14.60 min Scan# 1992
Delta R.T. 0.00 min
Lab File: BM029926.D
Acq: 11 May 2021 04:36

Instrument :
BNA_M
ClientSampleId :
BG591

Tot Ion	Ratio	Lower	Upper
168	100		
139	40.7	29.8	44.6

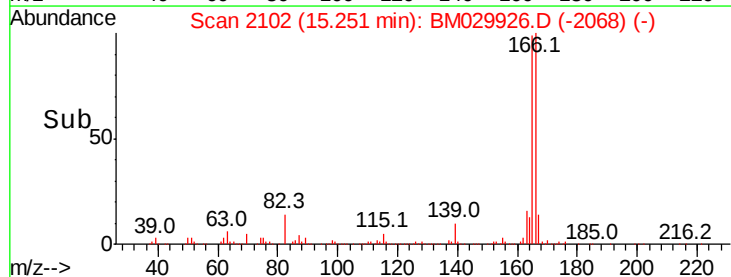
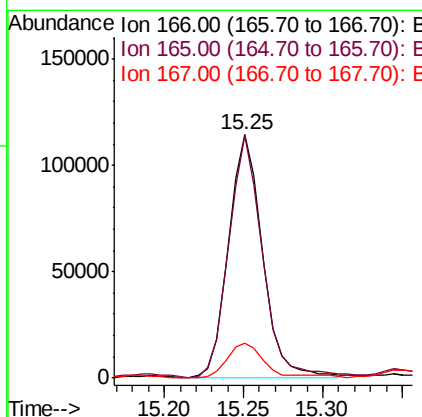
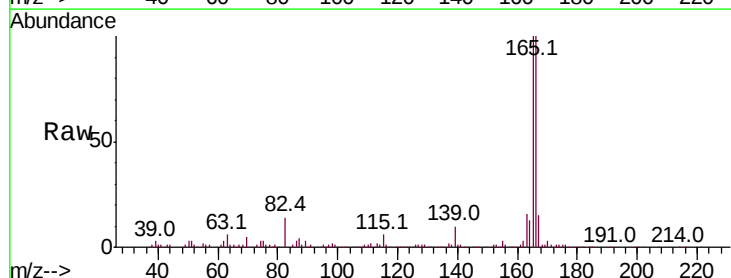
Manual Integrations
APPROVED

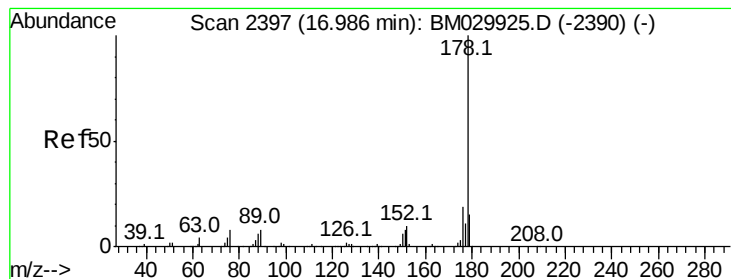
mohammad
5/11/2021 2:33:36 PM



#61
Fluorene
Concen: 5.165 ng/ul
RT: 15.25 min Scan# 2102
Delta R.T. 0.00 min
Lab File: BM029926.D
Acq: 11 May 2021 04:36

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.6	78.4	117.6
167	14.5	10.9	16.3





#72

Phenanthrene

Concen: 47.537 ng/ul

RT: 16.99 min Scan# 2397

Delta R.T. 0.00 min

Lab File: BM029926.D

Acq: 11 May 2021 04:36

Instrument :

BNA_M

ClientSampleId :

BG591

Tot Ion:178 Resp: 2400256

Ion Ratio Lower Upper

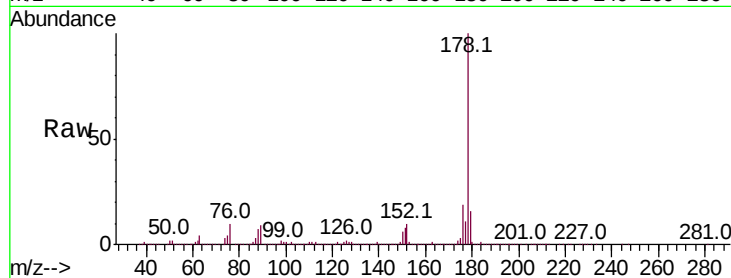
178 100

179 15.7 12.2 18.4

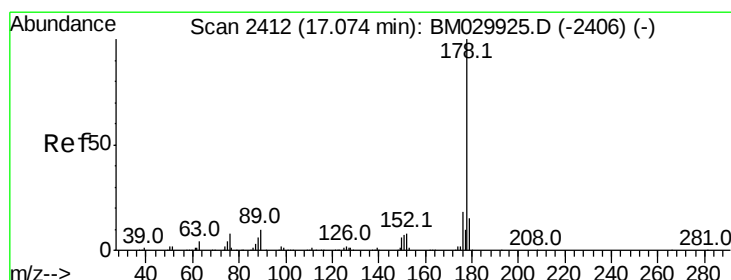
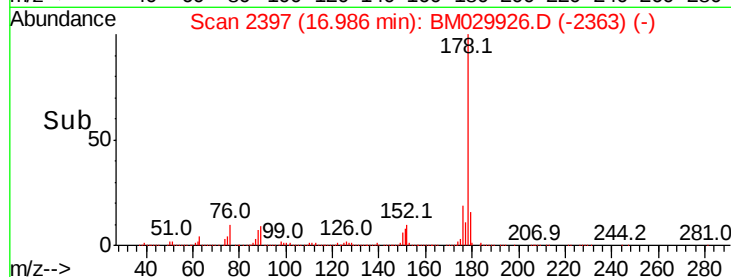
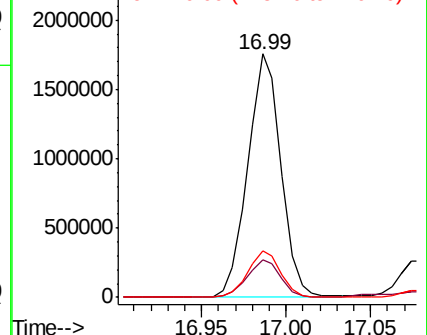
176 19.0 15.0 22.4

Manual Integrations
APPROVED

mohammad
5/11/2021 2:33:36 PM



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

Anthracene

Concen: 7.683 ng/ul

RT: 17.08 min Scan# 2413

Delta R.T. 0.00 min

Lab File: BM029926.D

Acq: 11 May 2021 04:36

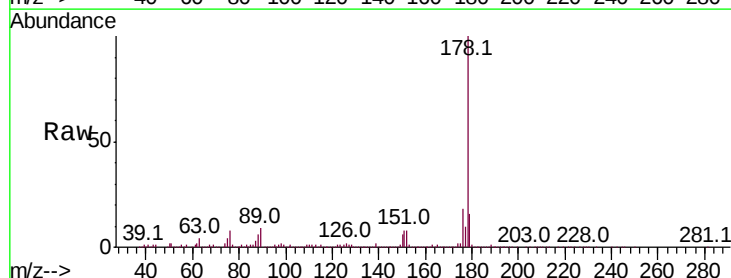
Tgt Ion:178 Resp: 396603

Ion Ratio Lower Upper

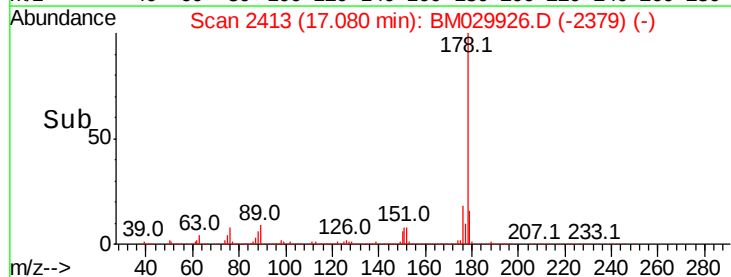
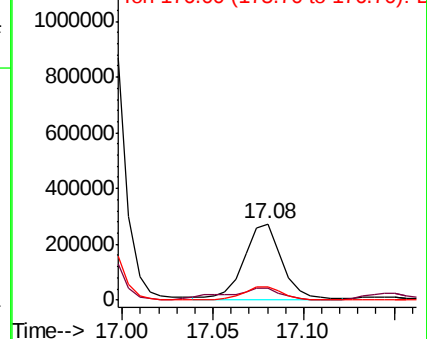
178 100

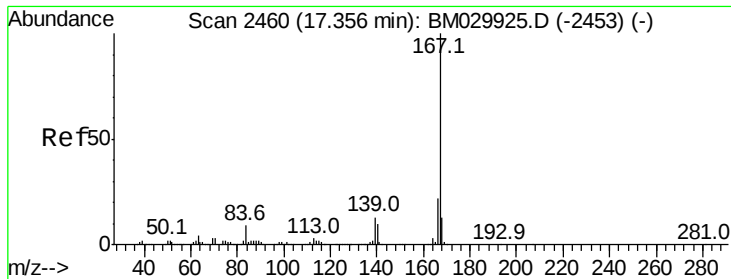
179 15.8 12.2 18.2

176 17.9 14.9 22.3



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





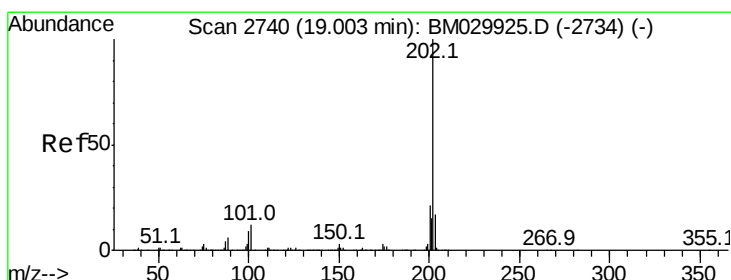
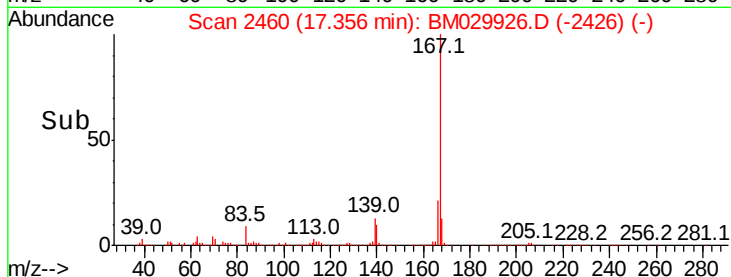
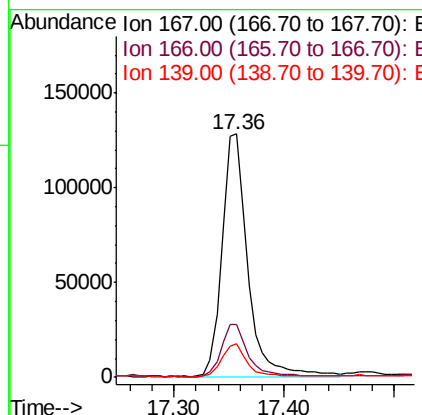
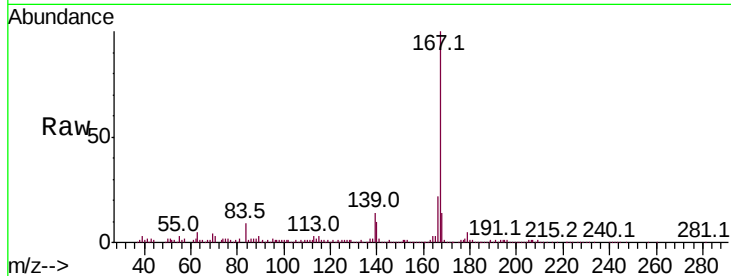
#77
 Carbazole
 Concen: 4.426 ng/ul
 RT: 17.36 min Scan# 2460
 Delta R.T. 0.00 min
 Lab File: BM029926.D
 Acq: 11 May 2021 04:36

Instrument :
 BNA_M
 ClientSampleId :
 BG591

Tot Ion	Ratio	Resp	Lower	Upper
167	100	209318		
166	21.7		17.6	26.4
139	13.7		10.2	15.2

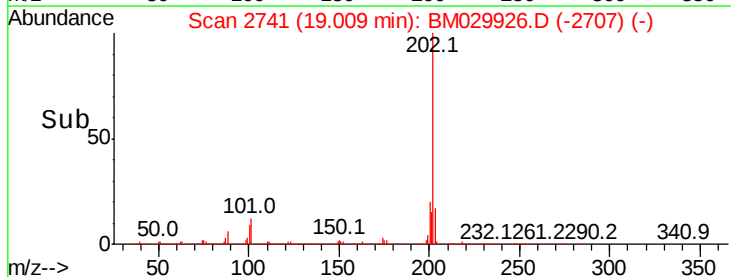
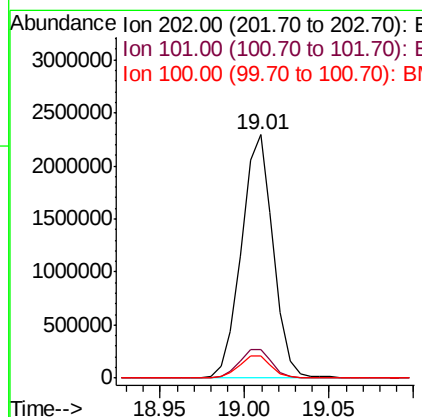
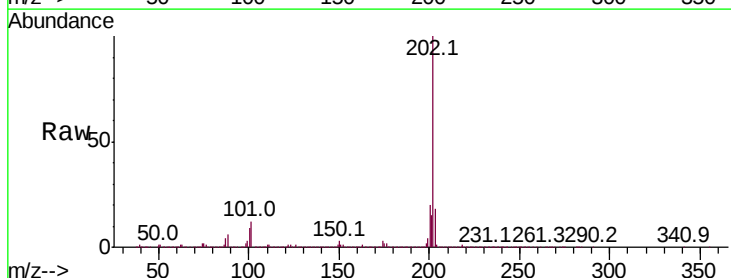
Manual Integrations
 APPROVED

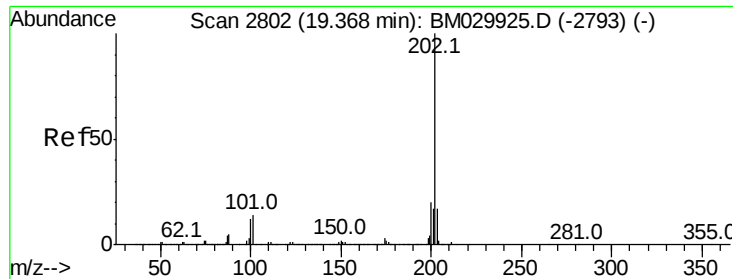
mohammad
 5/11/2021 2:33:36 PM



#80
 Fluoranthene
 Concen: 65.778 ng/ul
 RT: 19.01 min Scan# 2741
 Delta R.T. 0.00 min
 Lab File: BM029926.D
 Acq: 11 May 2021 04:36

Tgt Ion	Ratio	Resp	Lower	Upper
202	100	2993087		
101	11.9		9.0	13.4
100	9.3		7.0	10.6





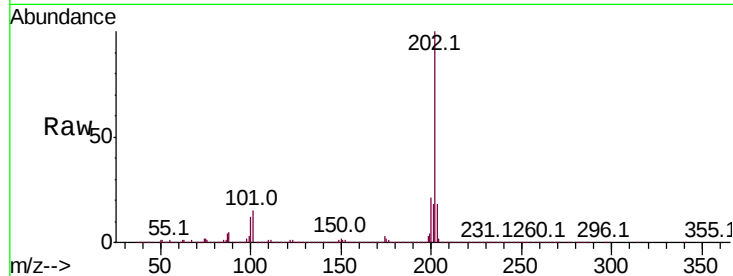
#82
Pvrene
Concen: 54.770 ng/ul
RT: 19.37 min Scan# 2802
Delta R.T. -0.01 min
Lab File: BM029926.D
Acq: 11 May 2021 04:36

Instrument :
BNA_M
ClientSampled :
BG591

Tot Ion	Ratio	Lower	Upper
202	100		
101	15.0	11.8	17.6
100	12.3	9.2	13.8

Manual Integrations
APPROVED

mohammad
5/11/2021 2:33:36 PM

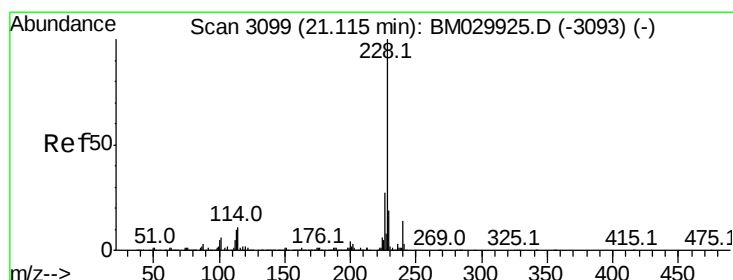
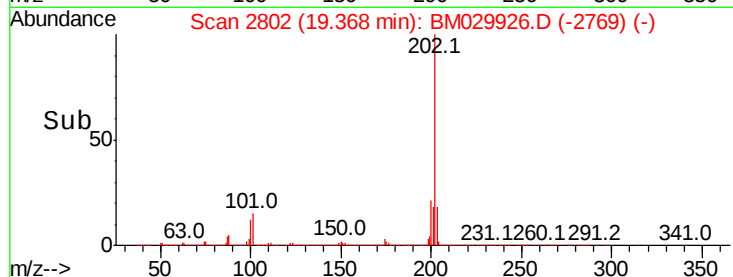
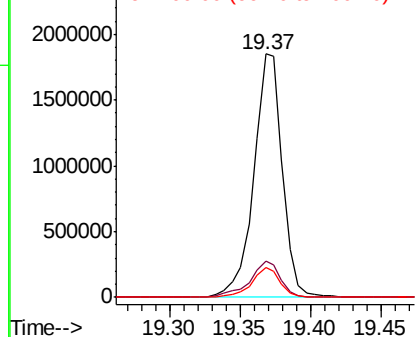


Abundance

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): E



#85
Benzo(a)anthracene
Concen: 26.393 ng/ul
RT: 21.12 min Scan# 3099
Delta R.T. -0.01 min
Lab File: BM029926.D
Acq: 11 May 2021 04:36

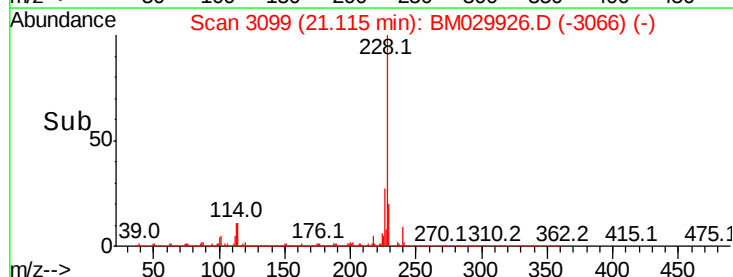
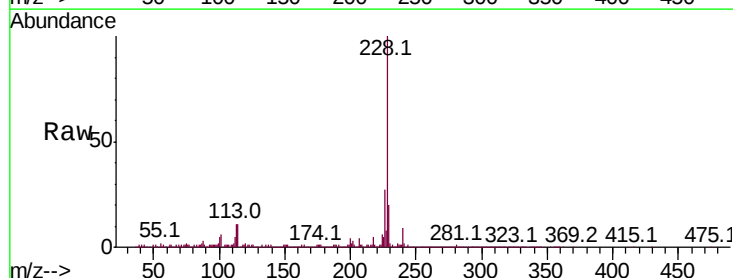
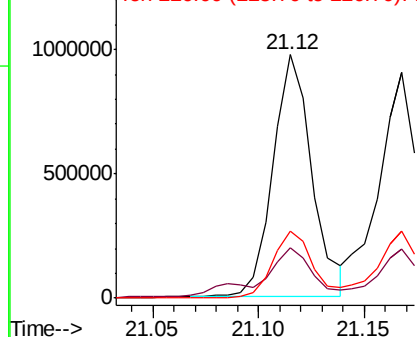
Tgt Ion	Ratio	Lower	Upper
228	100		
229	20.5	15.9	23.9
226	27.3	21.4	32.0

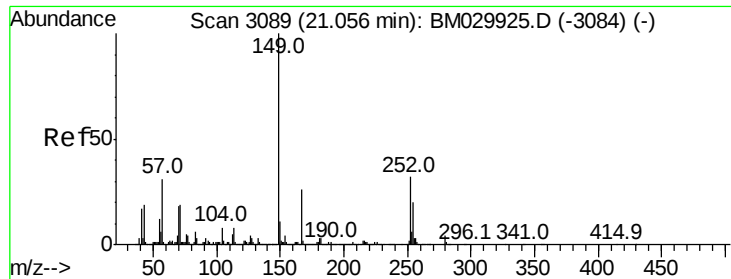
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





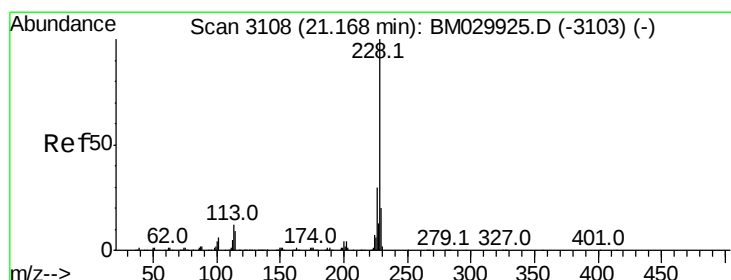
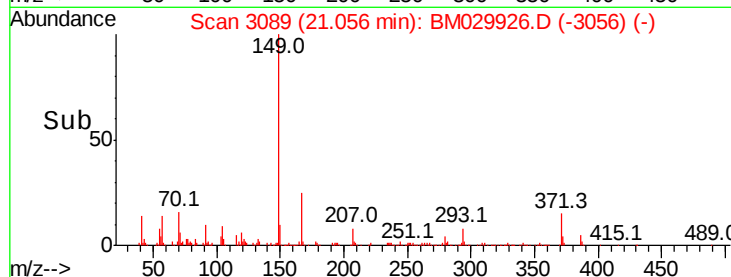
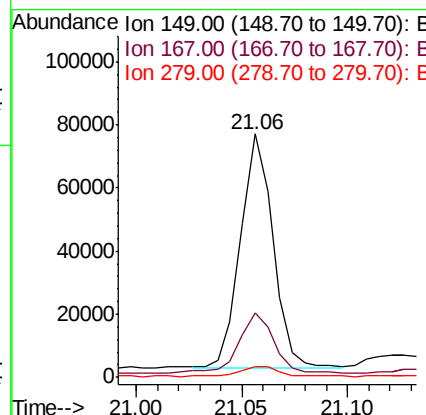
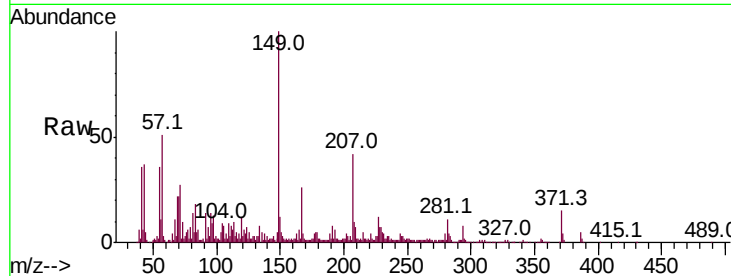
#86
 Bis(2-ethylhexyl)phthalate
 Concen: 2.710 ng/ul
 RT: 21.06 min Scan# 3089
 Delta R.T. -0.01 min
 Lab File: BM029926.D
 Acq: 11 May 2021 04:36

Instrument :
 BNA_M
 ClientSampled :
 BG591

Tot Ion	Ratio	Lower	Upper
149	100		
167	26.2	21.1	31.7
279	4.3	3.5	5.3

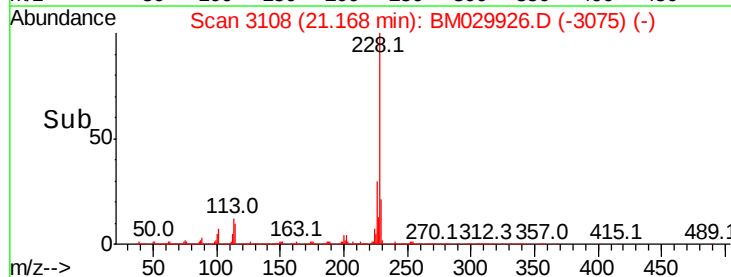
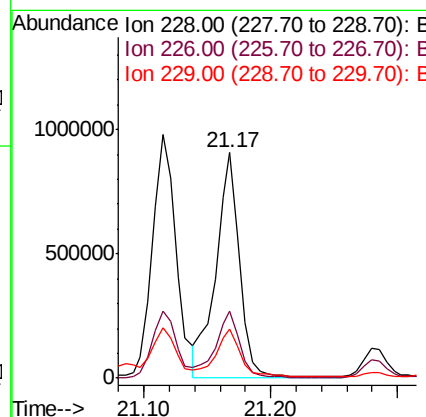
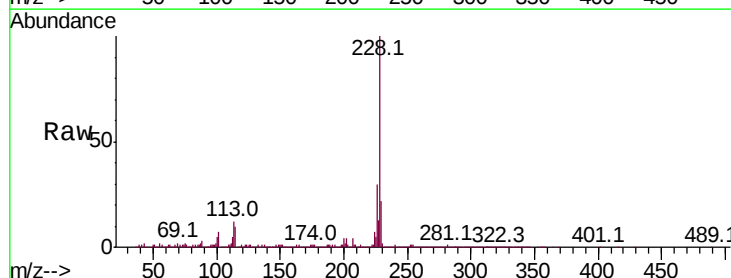
Manual Integrations
 APPROVED

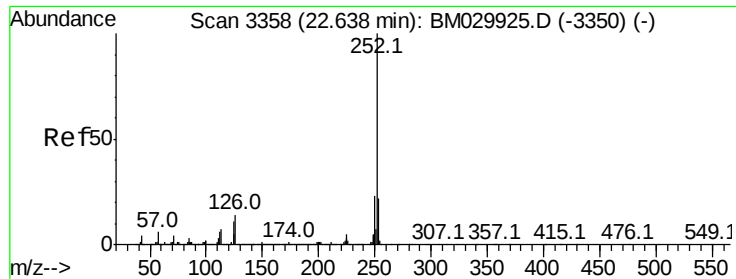
mohammad
 5/11/2021 2:33:36 PM



#87
 Chrysene
 Concen: 25.082 ng/ul
 RT: 21.17 min Scan# 3108
 Delta R.T. -0.01 min
 Lab File: BM029926.D
 Acq: 11 May 2021 04:36

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.9	35.9
229	21.7	15.6	23.4





#90

Benzo(b)fluoranthene

Concen: 35.398 ng/ul

RT: 22.64 min Scan# 3359

Delta R.T. 0.00 min

Lab File: BM029926.D

Acq: 11 May 2021 04:36

Instrument :

BNA_M

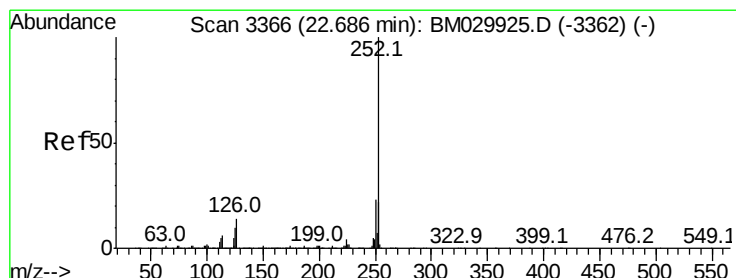
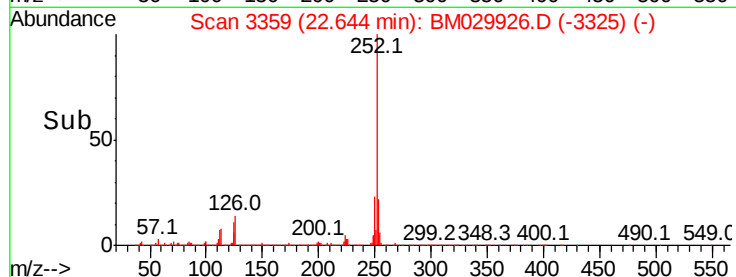
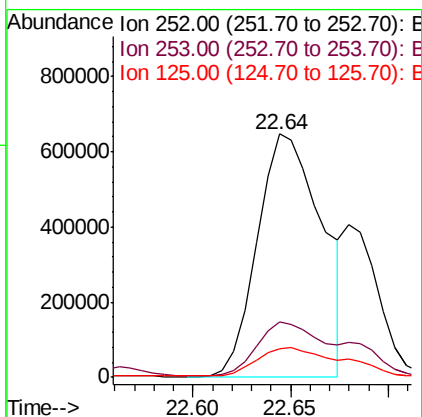
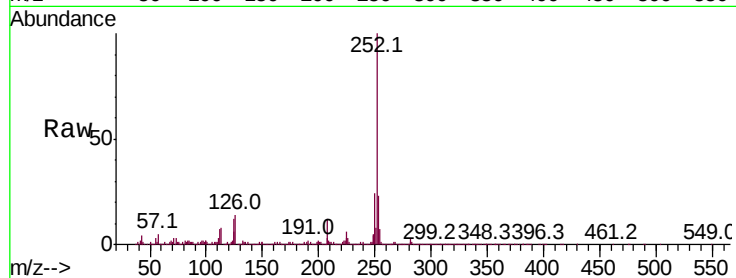
ClientSampled :

BG591

Tot Ion:	252	Resp:	1478241
Ion Ratio	Lower	Upper	
252	100		
253	22.9	17.4	26.2
125	11.8	8.6	12.8

Manual Integrations
APPROVED

mohammad
5/11/2021 2:33:36 PM



#91

Benzo(k)fluoranthene

Concen: 11.239 ng/ul m

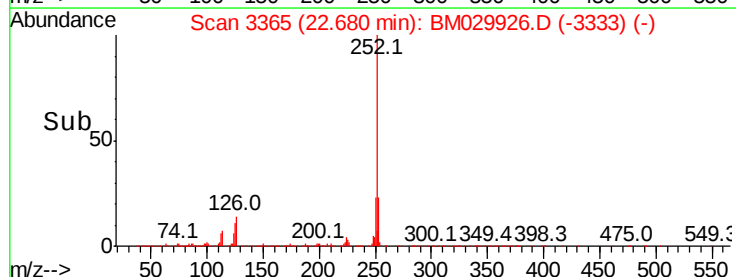
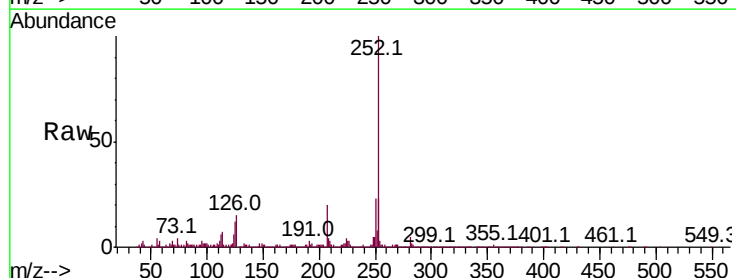
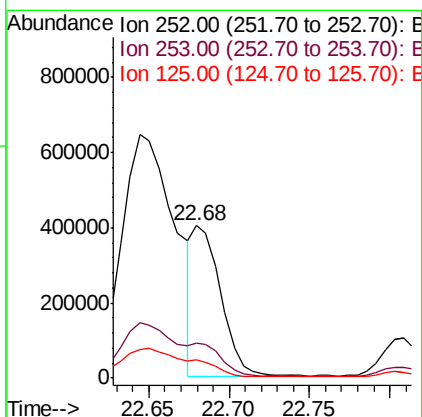
RT: 22.68 min Scan# 3365

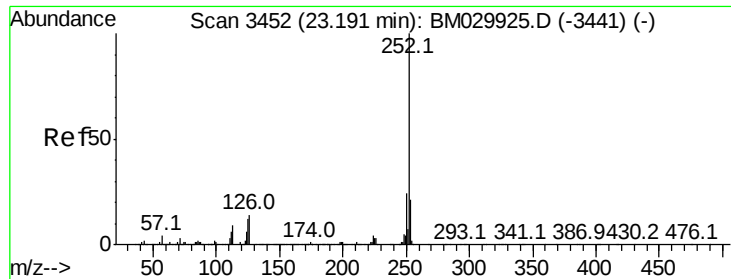
Delta R.T. -0.01 min

Lab File: BM029926.D

Acq: 11 May 2021 04:36

Tgt Ion:	252	Resp:	493427
Ion Ratio	Lower	Upper	
252	100		
253	23.3	17.8	26.8
125	11.9	8.4	12.6





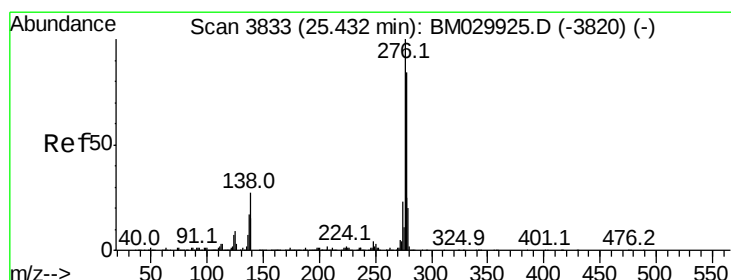
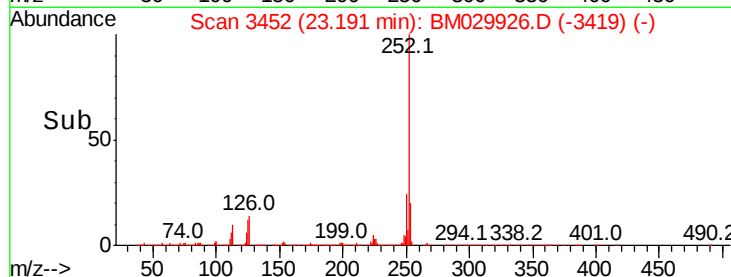
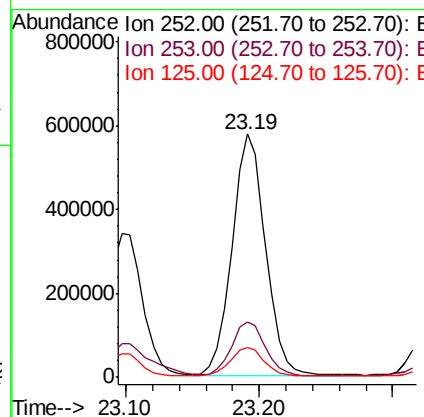
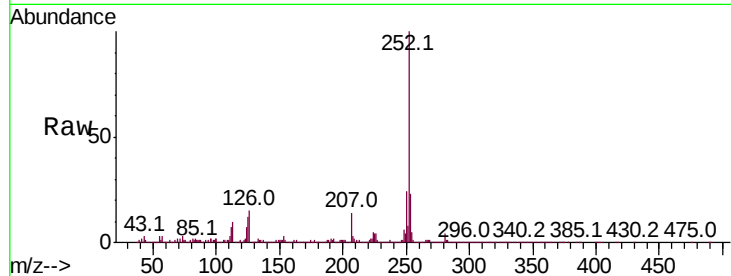
#93
Benzo(a)pyrene
Concen: 26.529 ng/ul
RT: 23.19 min Scan# 3452
Delta R.T. -0.01 min
Lab File: BM029926.D
Acq: 11 May 2021 04:36

Instrument :
BNA_M
ClientSampled :
BG591

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.9	26.9
125	12.3	9.6	14.4

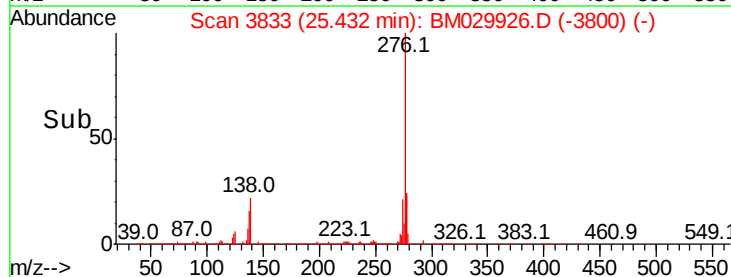
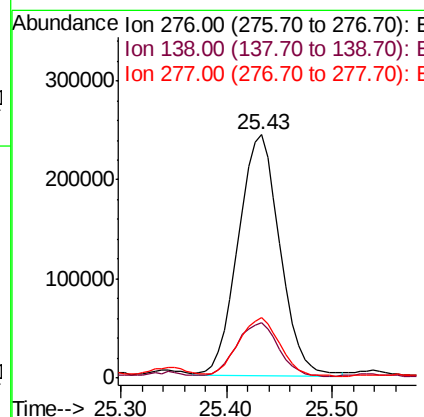
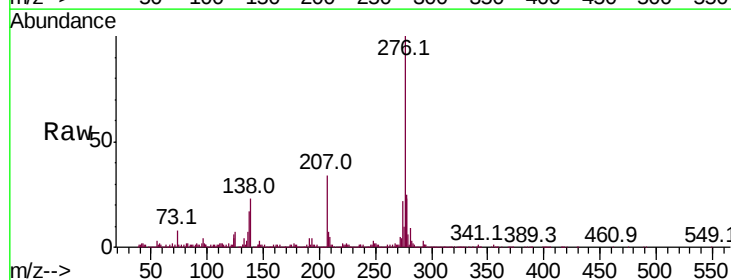
Manual Integrations
APPROVED

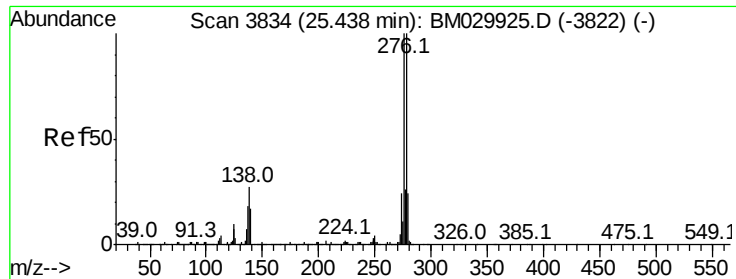
mohammad
5/11/2021 2:33:36 PM



#94
Indeno(1,2,3-cd)pyrene
Concen: 14.534 ng/ul
RT: 25.43 min Scan# 3833
Delta R.T. -0.01 min
Lab File: BM029926.D
Acq: 11 May 2021 04:36

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.7	21.1	31.7
277	24.7	20.3	30.5





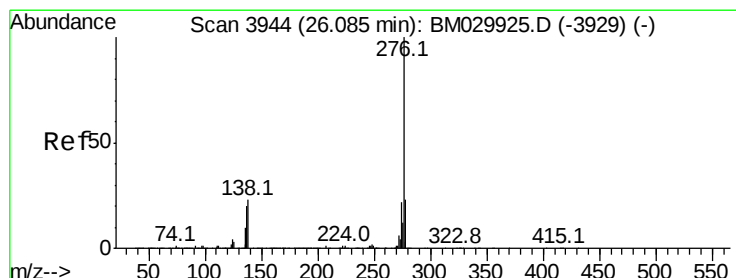
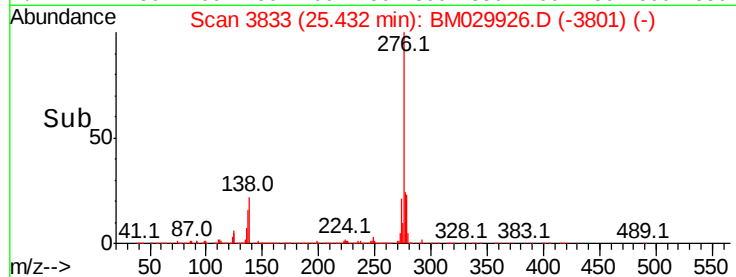
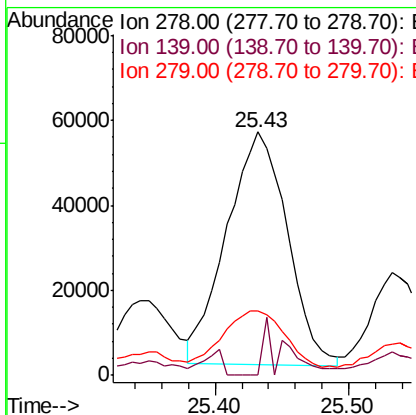
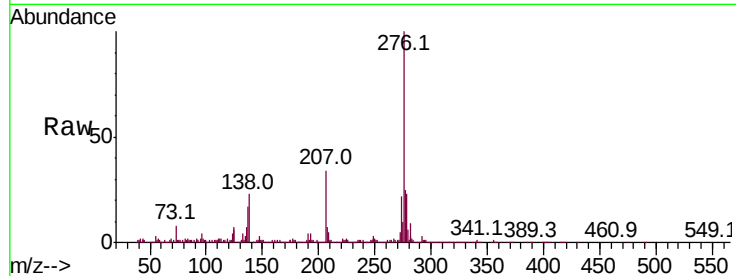
#95
 Dibenzo(a,h)anthracene
 Concen: 4.454 ng/u1
 RT: 25.43 min Scan# 3833
 Delta R.T. -0.01 min
 Lab File: BM029926.D
 Acq: 11 May 2021 04:36

Instrument :
 BNA_M
 ClientSampleId :
 BG591

Tot Ion:	278	Resp:	173301
Ion Ratio	Lower	Upper	
278	100		
139	0.0	13.5	20.3#
279	26.3	18.6	28.0

Manual Integrations
 APPROVED

mohammad
 5/11/2021 2:33:36 PM



#96
 Benzo(g,h,i)perylene
 Concen: 14.593 ng/u1
 RT: 26.09 min Scan# 3944
 Delta R.T. -0.01 min
 Lab File: BM029926.D
 Acq: 11 May 2021 04:36

Tgt Ion:	276	Resp:	542761
Ion Ratio	Lower	Upper	
276	100		
138	24.1	17.8	26.8
277	24.8	18.5	27.7

