

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082021\
 Data File : BM031838.D
 Acq On : 20 Aug 2021 12:46
 Operator : CG/JU
 Sample : M3397-12
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SWCS-06-0002

Manual Integrations
 APPROVED

mohammad
 8/23/2021 4:24:31 PM

Quant Time: Aug 20 13:47:10 2021
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081621.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 18 14:13:35 2021
 Response via : Initial Calibration

8/23/2021 4:24:31 PM

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.534	152	46918	20.000	ng	0.00
21) Naphthalene-d8	10.292	136	185093	20.000	ng	# 0.00
39) Acenaphthene-d10	14.169	164	104588	20.000	ng	-0.01
64) Phenanthrene-d10	16.927	188	212972	20.000	ng	0.00
76) Chrysene-d12	21.133	240	217968	20.000	ng	0.00
86) Perylene-d12	23.280	264	223456	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.169	112	137569	47.060	ng	0.00
7) Phenol-d6	6.728	99	166883	39.398	ng	0.00
23) Nitrobenzene-d5	8.681	82	121369	27.456	ng	-0.01
42) 2,4,6-Tribromophenol	15.674	330	48388	37.564	ng	0.00
45) 2-Fluorobiphenyl	12.781	172	222016	28.254	ng	-0.01
79) Terphenyl-d14	19.574	244	314100	24.280	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	10.340	128	77081	7.274	ng	97
37) 2-Methylnaphthalene	11.963	142	22504m	2.838	ng	
38) 1-Methylnaphthalene	12.186	142	16739	2.210	ng	# 93
49) Acenaphthylene	13.892	152	130173	12.306	ng	98
55) Dibenzofuran	14.575	168	58266	5.411	ng	# 89
58) Fluorene	15.227	166	48240	5.396	ng	96
71) Phenanthrene	16.968	178	910997	70.137	ng	99
72) Anthracene	17.057	178	176014	13.823	ng	98
73) Carbazole	17.339	167	67341	5.279	ng	97
75) Fluoranthene	18.998	202	1361578	87.517	ng	98
78) Pyrene	19.362	202	1174291	74.367	ng	99
81) Benzo(a)anthracene	21.115	228	538643	33.738	ng	93
83) Chrysene	21.168	228	451295	28.999	ng	97
87) Indeno(1,2,3-cd)pyrene	25.403	276	341916	21.713	ng	97
88) Benzo(b)fluoranthene	22.650	252	661279m	39.415	ng	
89) Benzo(k)fluoranthene	22.686	252	199389m	12.313	ng	
90) Benzo(a)pyrene	23.192	252	470010	31.641	ng	98
91) Dibenzo(a,h)anthracene	25.403	278	81198m	5.863	ng	
92) Benzo(g,h,i)perylene	26.050	276	331869	26.315	ng	98

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

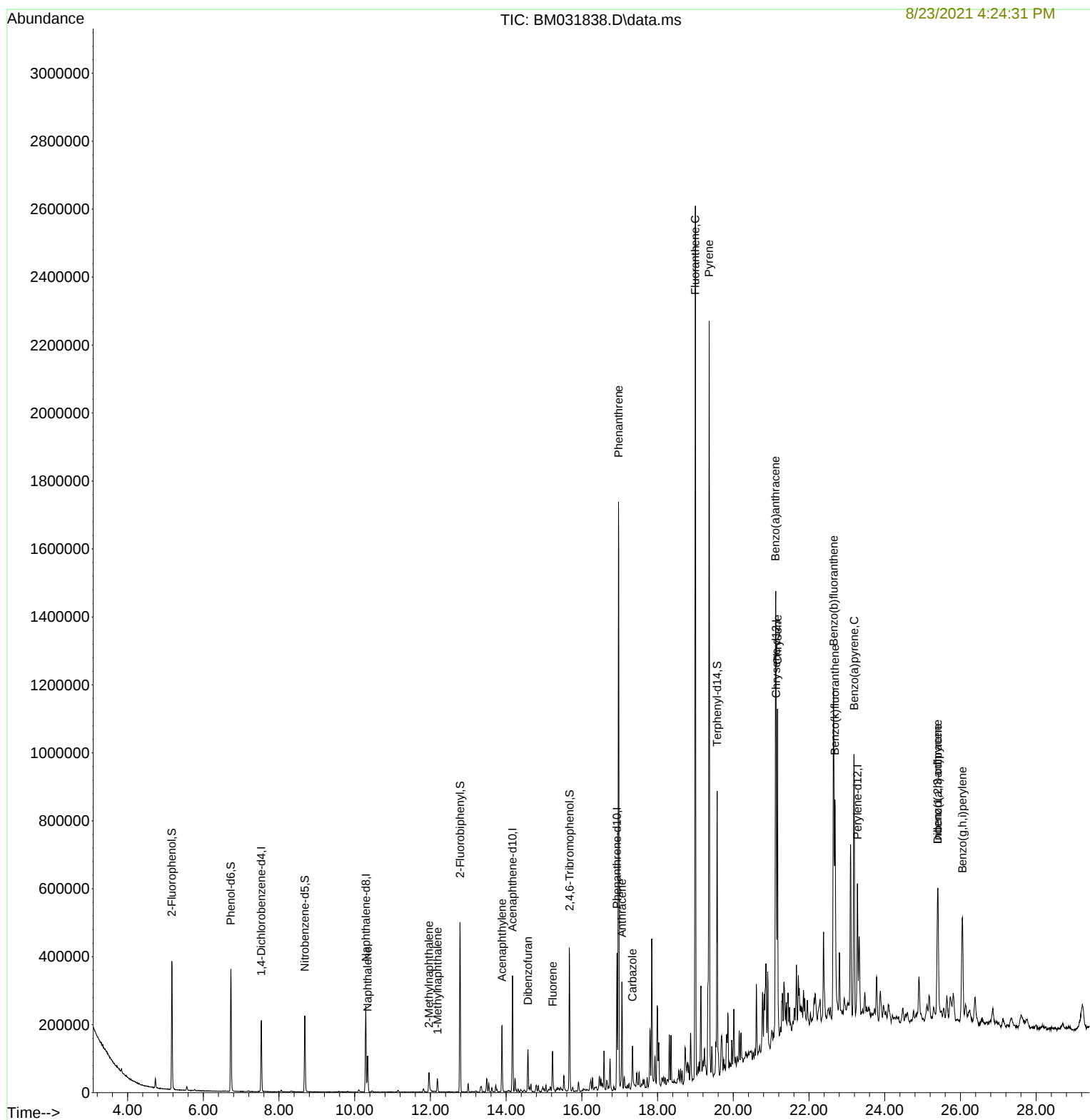
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM082021\
Data File : BM031838.D
Acq On : 20 Aug 2021 12:46
Operator : CG/JU
Sample : M3397-12
Misc :
ALS Vial : 6 Sample Multiplier: 1

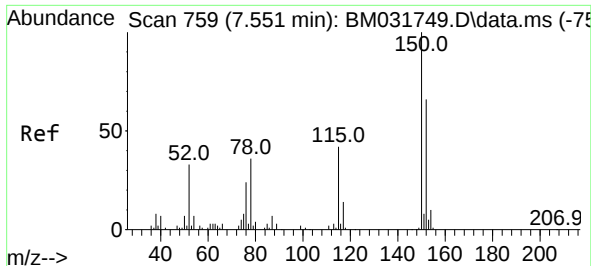
Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

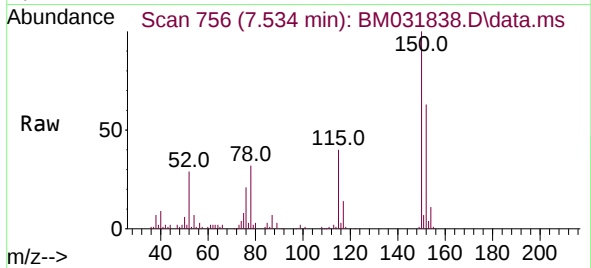
mohammad
8/23/2021 4:24:31 PM

Quant Time: Aug 20 13:47:10 2021
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM081621.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 18 14:13:35 2021
Response via : Initial Calibration

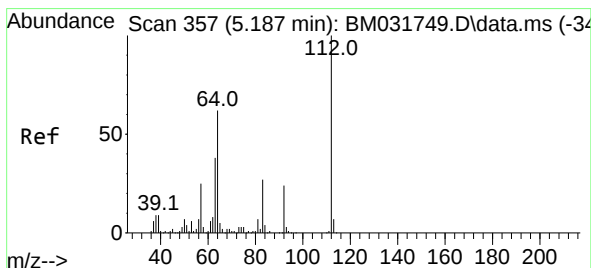
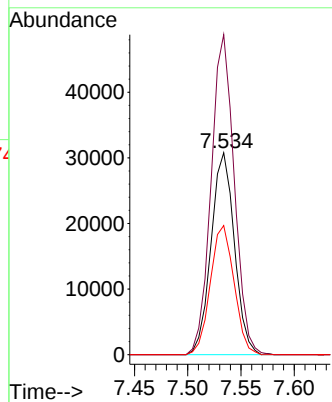
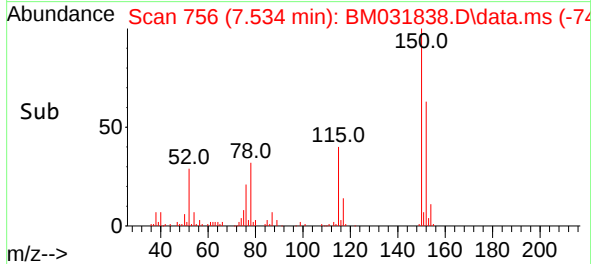




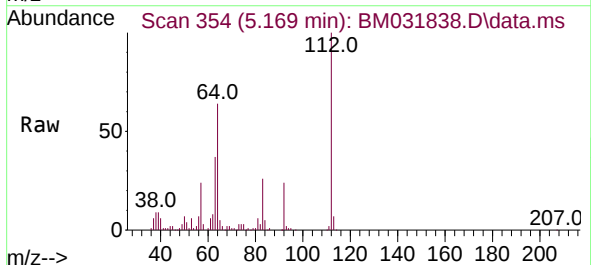
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.534 min Scan# 756
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



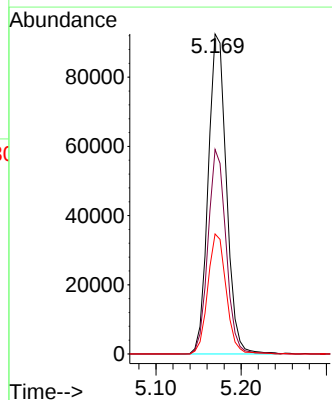
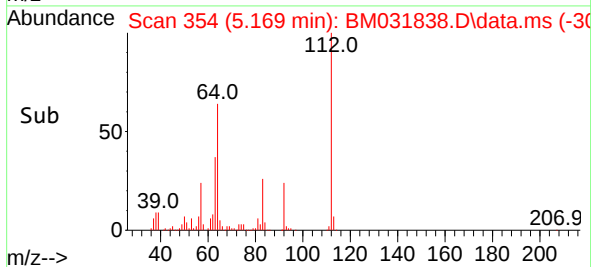
Tgt Ion:152 Resp: 46918
Ion Ratio Lower Upper
152 100
150 158.4 125.9 188.9
115 63.9 44.6 67.0



#5
2-Fluorophenol
Concen: 47.060 ng
RT: 5.169 min Scan# 354
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



Tgt Ion:112 Resp: 137569
Ion Ratio Lower Upper
112 100
64 63.9 47.1 70.7
63 37.5 27.3 40.9

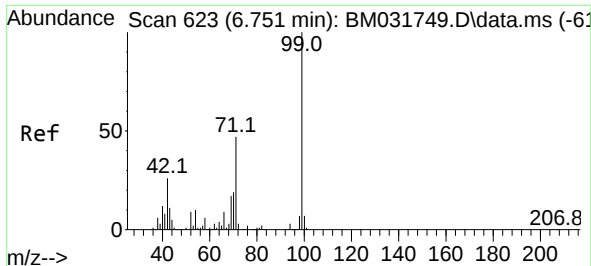


Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

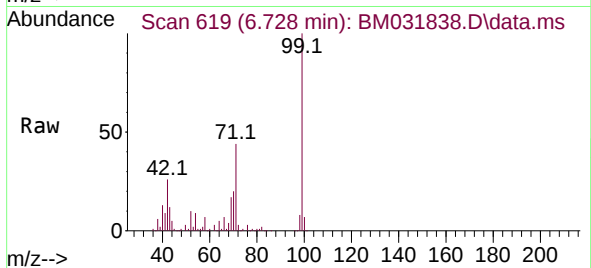
mohammad
8/23/2021 4:24:31 PM

8/23/2021 4:24:31 PM



#7
Phenol-d6
Concen: 39.398 ng
RT: 6.728 min Scan# 619
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

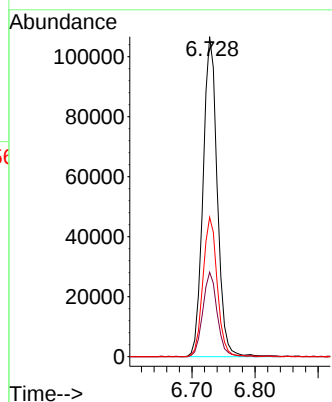
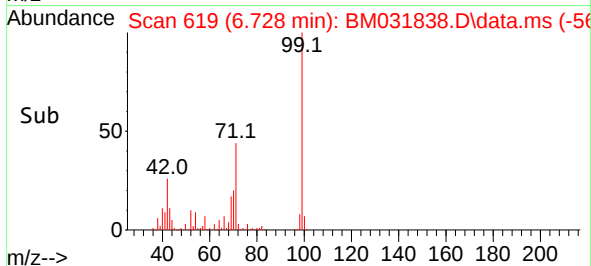
Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002



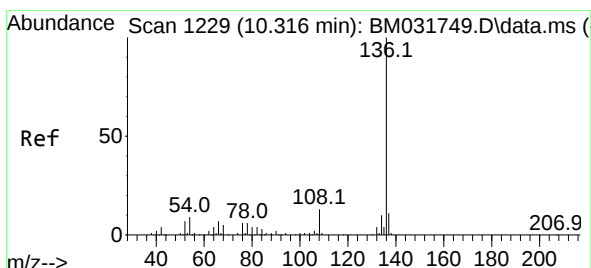
Tgt Ion: 99 Resp: 166883
Ion Ratio Lower Upper
99 100
42 26.4 18.0 27.0
71 43.5 30.9 46.3

Manual Integrations
APPROVED

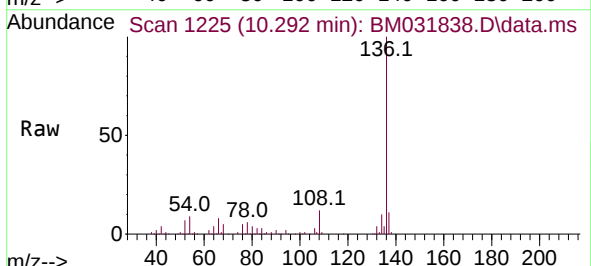
mohammad
8/23/2021 4:24:31 PM



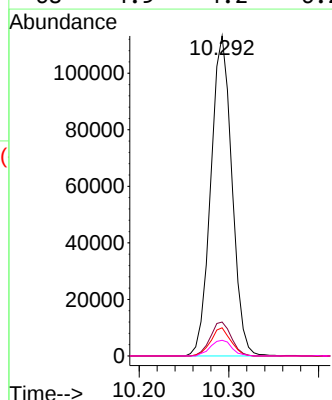
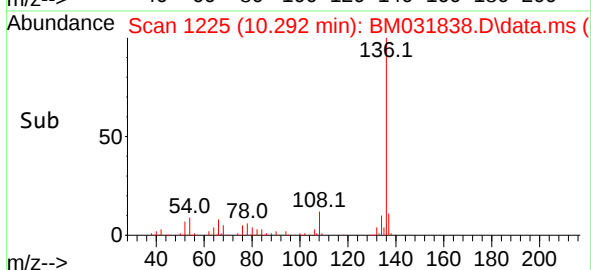
8/23/2021 4:24:31 PM

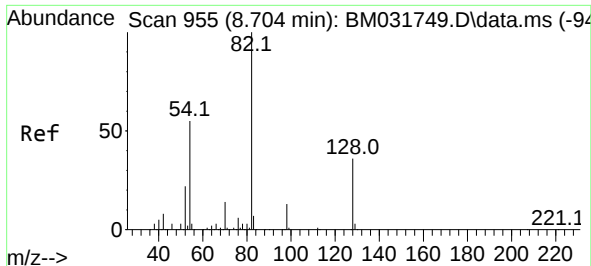


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.292 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



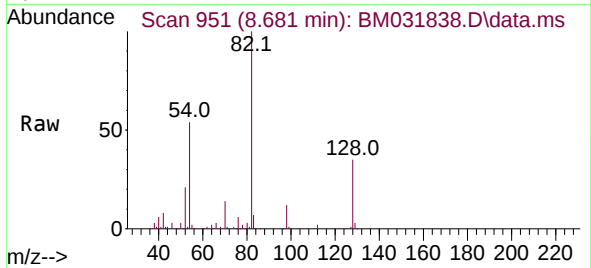
Tgt Ion: 136 Resp: 185093
Ion Ratio Lower Upper
136 100
137 10.6 8.4 12.6
54 8.8 5.5 8.3#
68 4.9 4.2 6.2





#23
Nitrobenzene-d5
Concen: 27.456 ng
RT: 8.681 min Scan# 951
Delta R.T. -0.012 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

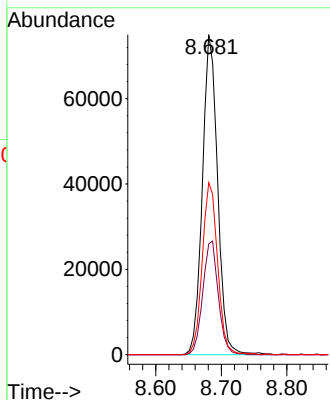
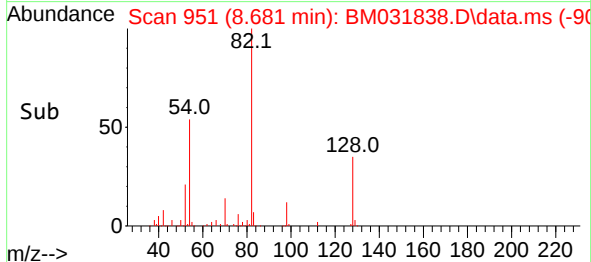
Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002



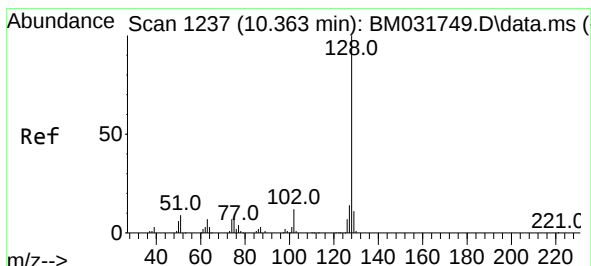
Tgt Ion: 82 Resp: 121369
Ion Ratio Lower Upper
82 100
128 34.6 31.1 46.7
54 53.8 37.3 55.9

Manual Integrations
APPROVED

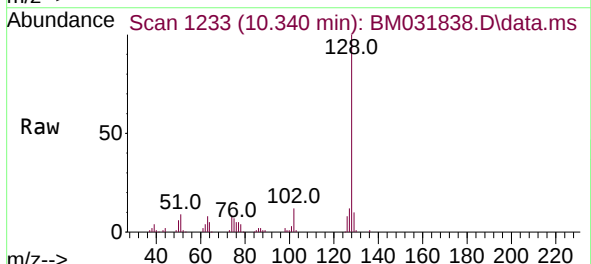
mohammad
8/23/2021 4:24:31 PM



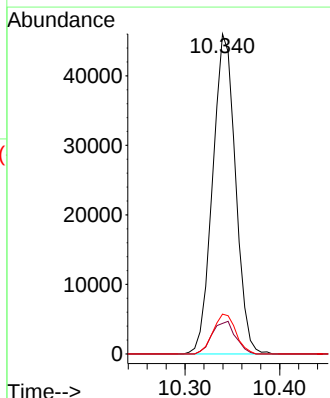
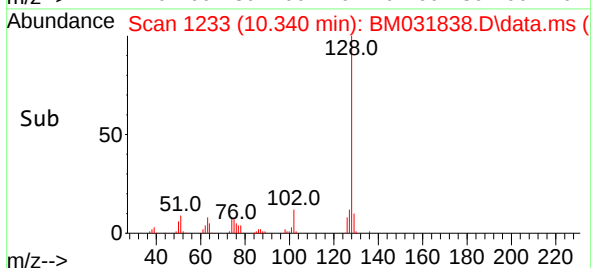
8/23/2021 4:24:31 PM

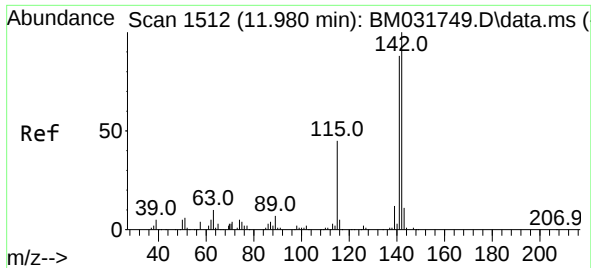


#31
Naphthalene
Concen: 7.274 ng
RT: 10.340 min Scan# 1233
Delta R.T. -0.012 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



Tgt Ion: 128 Resp: 77081
Ion Ratio Lower Upper
128 100
129 9.6 9.0 13.6
127 12.5 10.8 16.2





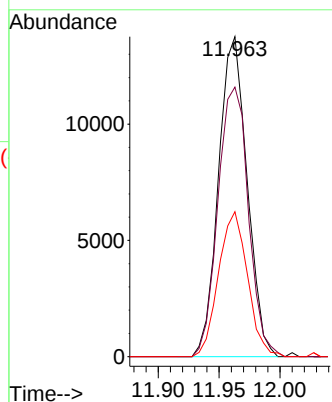
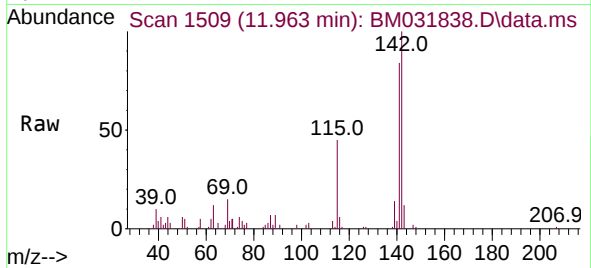
#37
2-Methylnaphthalene
Concen: 2.838 ng m
RT: 11.963 min Scan# 1509
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

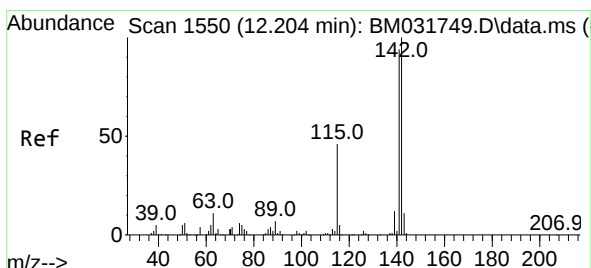
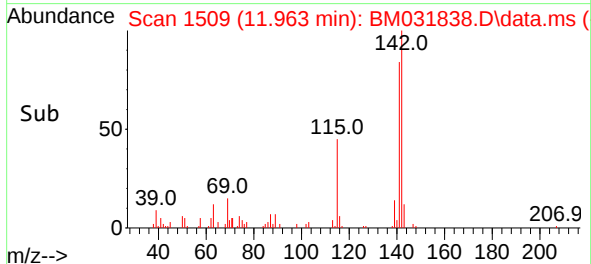
Tgt Ion	Ratio	Lower	Upper
142	100		
141	84.2	71.7	107.5
115	45.3	29.1	43.7#

Manual Integrations
APPROVED

mohammad
8/23/2021 4:24:31 PM

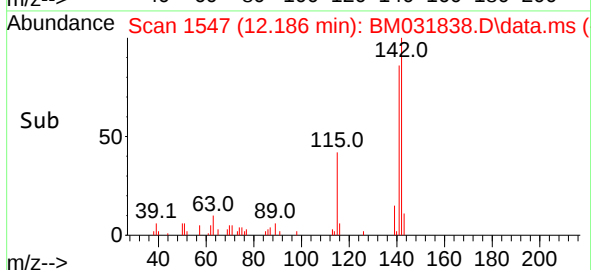
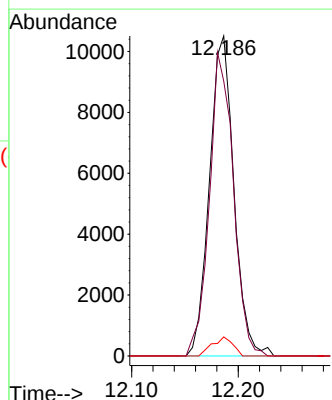
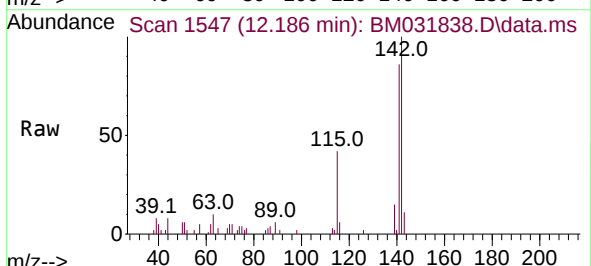


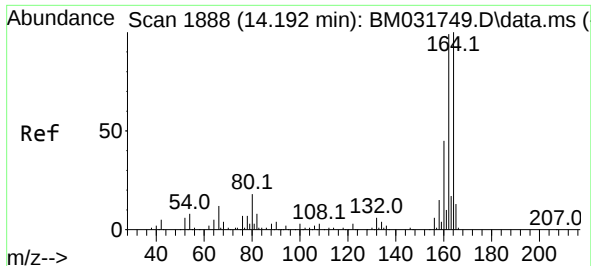
8/23/2021 4:24:31 PM



#38
1-Methylnaphthalene
Concen: 2.210 ng
RT: 12.186 min Scan# 1547
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

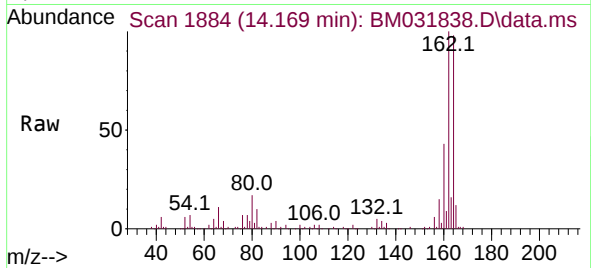
Tgt Ion	Ratio	Lower	Upper
142	100		
141	85.9	74.2	111.4
116	6.0	3.0	4.6#





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.169 min Scan# 1884
Delta R.T. -0.012 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

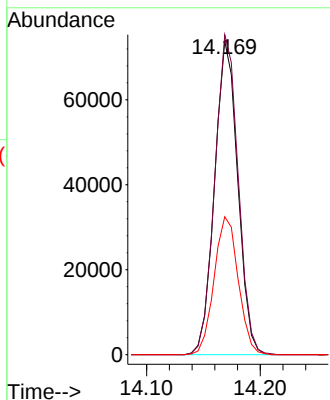
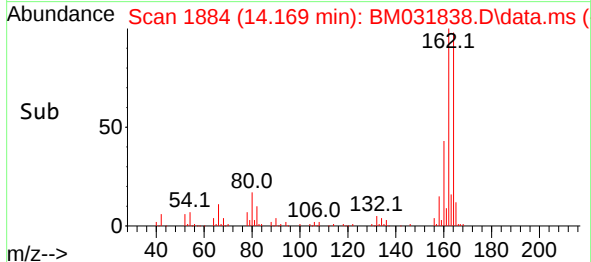
Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002



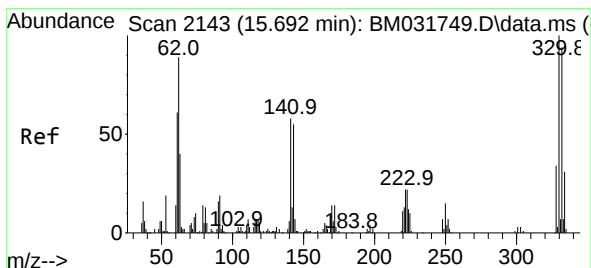
Tgt Ion:164 Resp: 104588
Ion Ratio Lower Upper
164 100
162 102.1 83.4 125.0
160 44.0 37.2 55.8

Manual Integrations
APPROVED

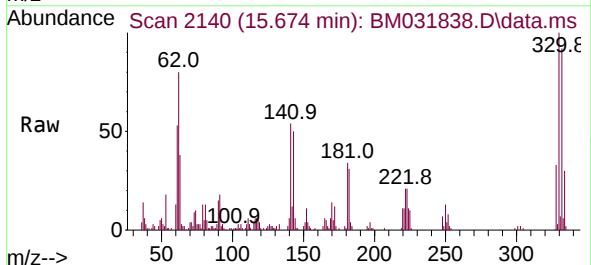
mohammad
8/23/2021 4:24:31 PM



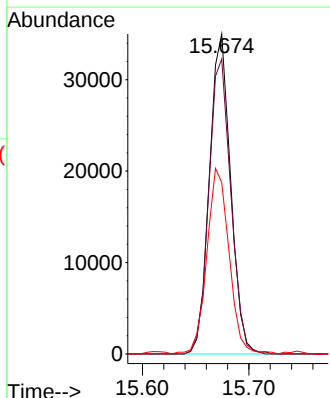
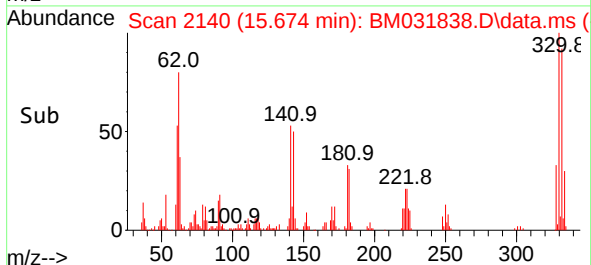
8/23/2021 4:24:31 PM

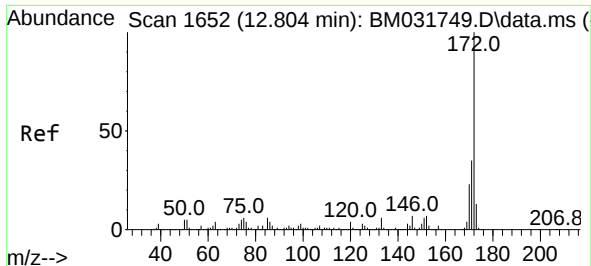


#42
2,4,6-Tribromophenol
Concen: 37.564 ng
RT: 15.674 min Scan# 2140
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



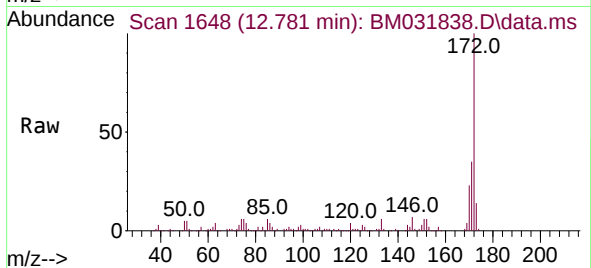
Tgt Ion:330 Resp: 48388
Ion Ratio Lower Upper
330 100
332 95.4 77.0 115.4
141 60.7 30.2 45.2#





#45
2-Fluorobiphenyl
Concen: 28.254 ng
RT: 12.781 min Scan# 1648
Delta R.T. -0.012 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

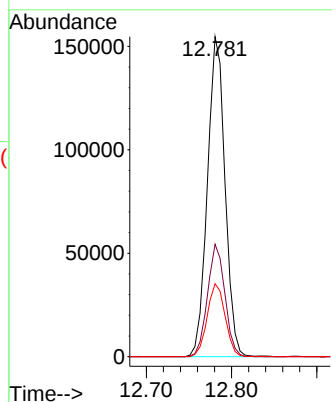
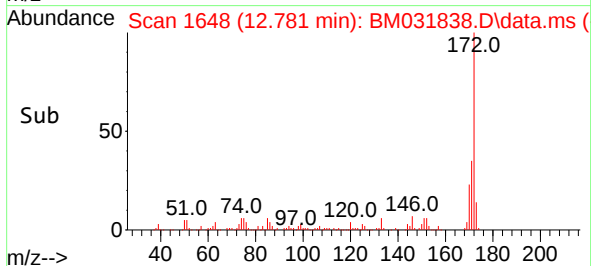
Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002



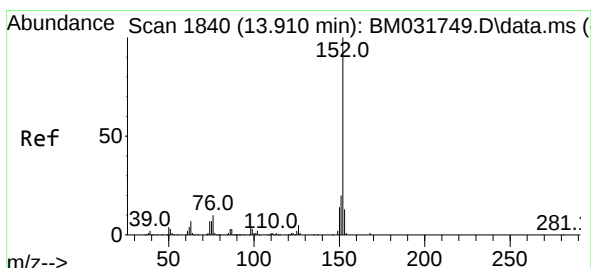
Tgt Ion:172 Resp: 222016
Ion Ratio Lower Upper
172 100
171 35.1 28.6 43.0
170 22.8 18.4 27.6

Manual Integrations
APPROVED

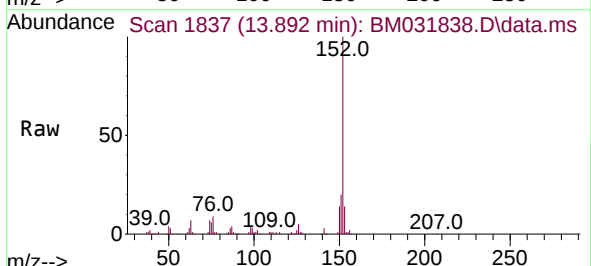
mohammad
8/23/2021 4:24:31 PM



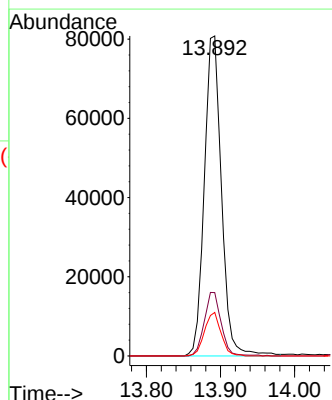
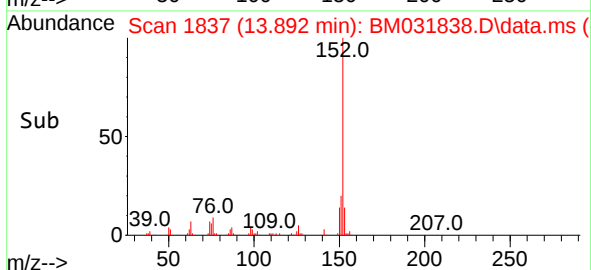
8/23/2021 4:24:31 PM

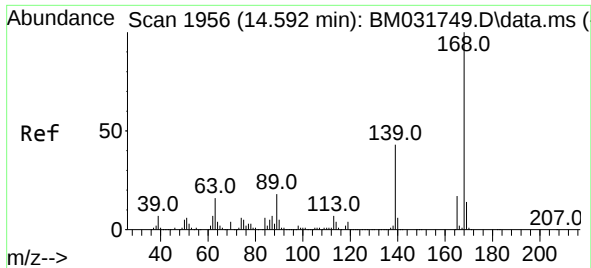


#49
Acenaphthylene
Concen: 12.306 ng
RT: 13.892 min Scan# 1837
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

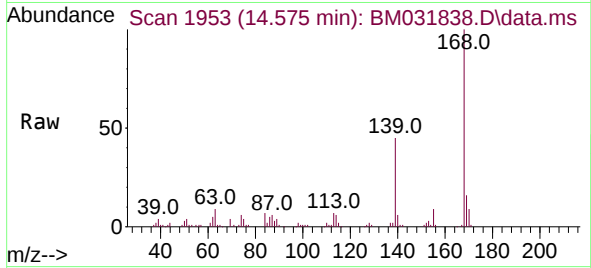


Tgt Ion:152 Resp: 130173
Ion Ratio Lower Upper
152 100
151 19.8 16.3 24.5
153 13.6 10.2 15.4

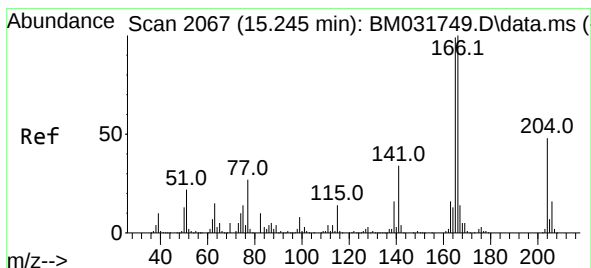
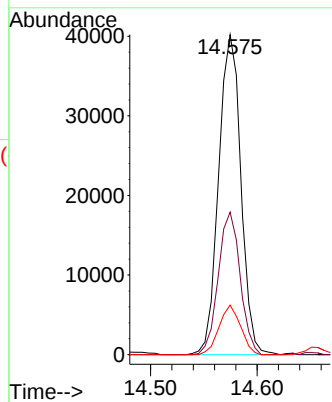
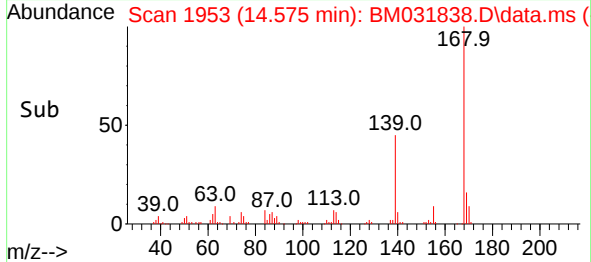




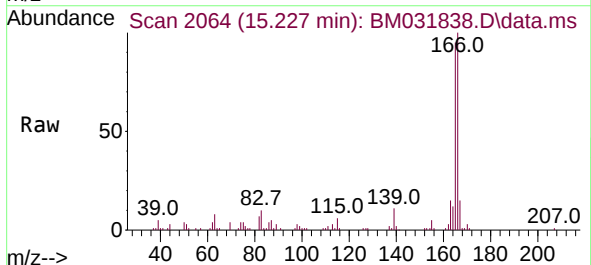
#55
Dibenzofuran
Concen: 5.411 ng
RT: 14.575 min Scan# 1953
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



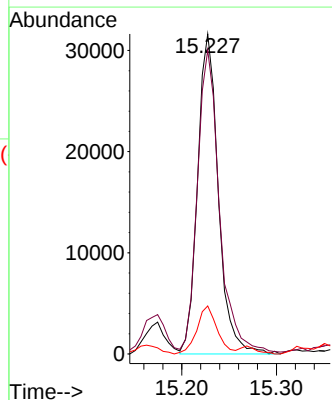
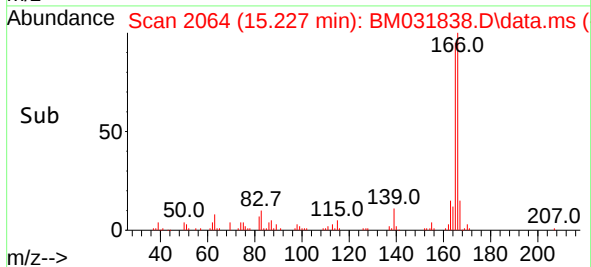
Tgt Ion:168 Resp: 58266
Ion Ratio Lower Upper
168 100
139 44.5 29.4 44.0#
169 15.5 10.8 16.2



#58
Fluorene
Concen: 5.396 ng
RT: 15.227 min Scan# 2064
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



Tgt Ion:166 Resp: 48240
Ion Ratio Lower Upper
166 100
165 95.0 79.0 118.6
167 15.0 10.8 16.2

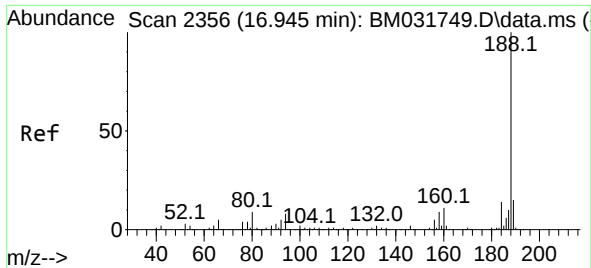


Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

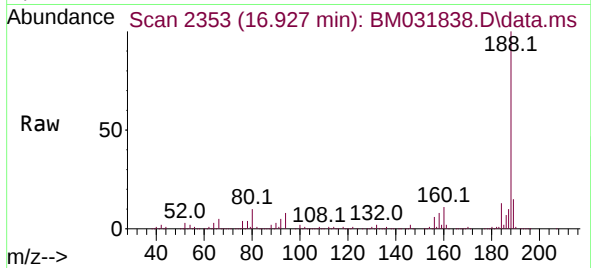
mohammad
8/23/2021 4:24:31 PM

8/23/2021 4:24:31 PM



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.927 min Scan# 2353
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

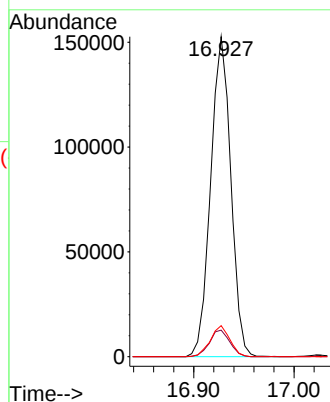
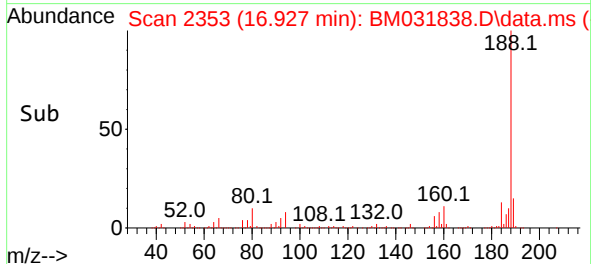
Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002



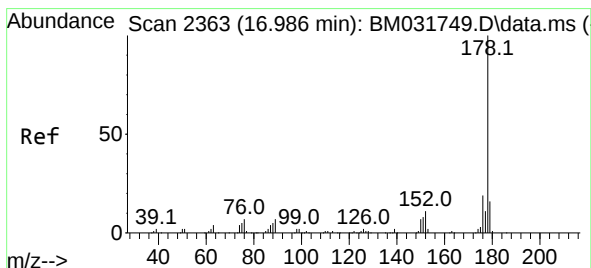
Tgt Ion:188 Resp: 212972
Ion Ratio Lower Upper
188 100
94 8.3 6.0 9.0
80 9.7 6.6 9.8

Manual Integrations
APPROVED

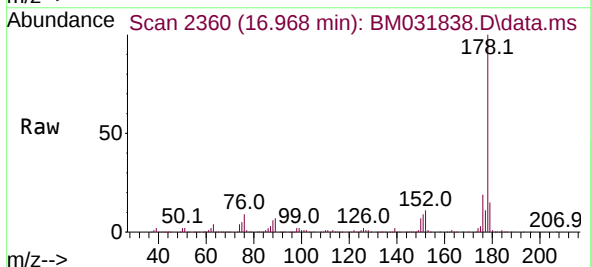
mohammad
8/23/2021 4:24:31 PM



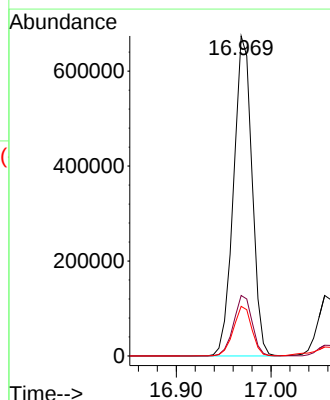
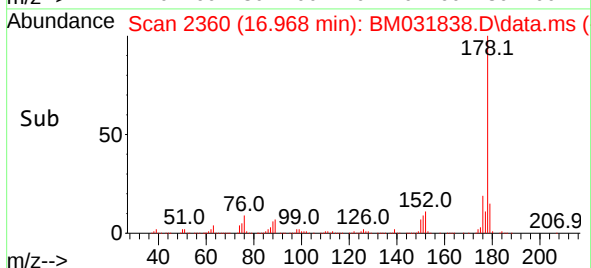
8/23/2021 4:24:31 PM

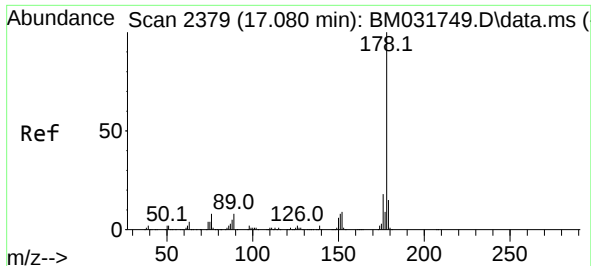


#71
Phenanthrene
Concen: 70.137 ng
RT: 16.968 min Scan# 2360
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

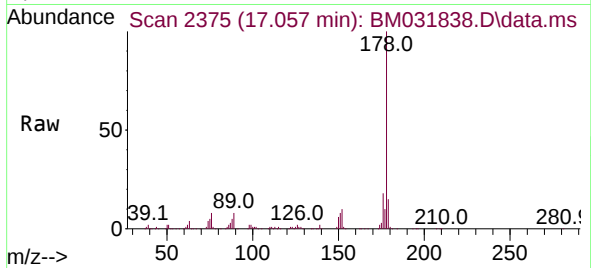


Tgt Ion:178 Resp: 910997
Ion Ratio Lower Upper
178 100
176 18.9 15.4 23.0
179 15.5 12.2 18.4

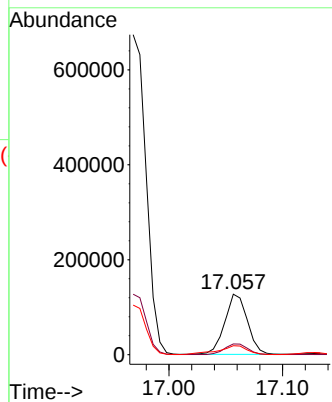
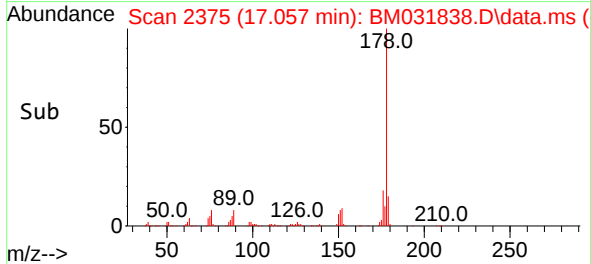




#72
 Anthracene
 Concen: 13.823 ng
 RT: 17.057 min Scan# 2375
 Delta R.T. -0.012 min
 Lab File: BM031838.D
 Acq: 20 Aug 2021 12:46



Tgt Ion:178 Resp: 176014
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.0 22.4
 179 14.8 12.5 18.7

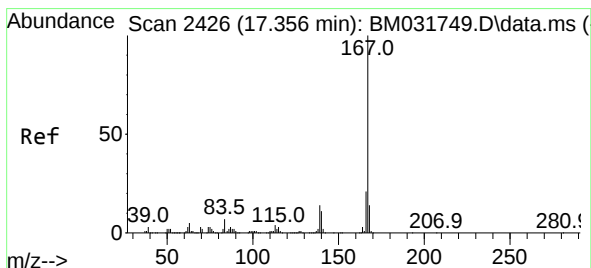


Instrument :
 BNA_M
 ClientSampleId :
 SWCS-06-0002

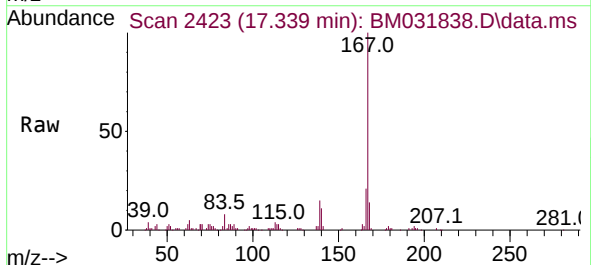
Manual Integrations
 APPROVED

mohammad
 8/23/2021 4:24:31 PM

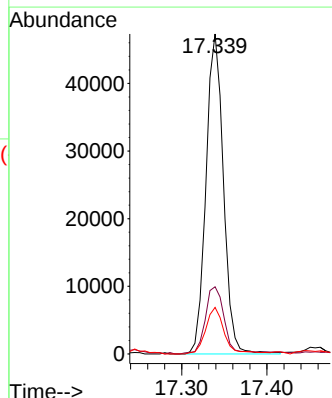
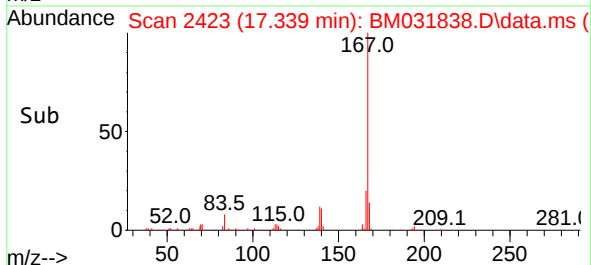
8/23/2021 4:24:31 PM

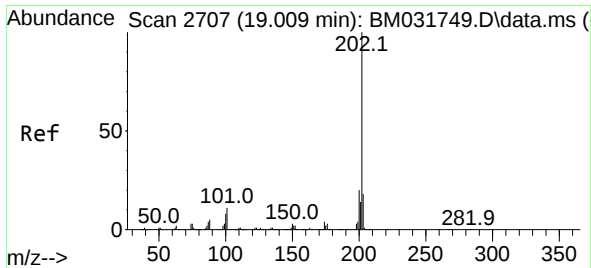


#73
 Carbazole
 Concen: 5.279 ng
 RT: 17.339 min Scan# 2423
 Delta R.T. -0.006 min
 Lab File: BM031838.D
 Acq: 20 Aug 2021 12:46



Tgt Ion:167 Resp: 67341
 Ion Ratio Lower Upper
 167 100
 166 21.0 17.4 26.0
 139 14.5 9.8 14.6





#75
Fluoranthene
Concen: 87.517 ng
RT: 18.998 min Scan# 2705
Delta R.T. 0.000 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

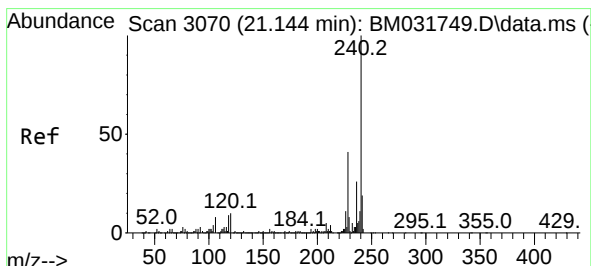
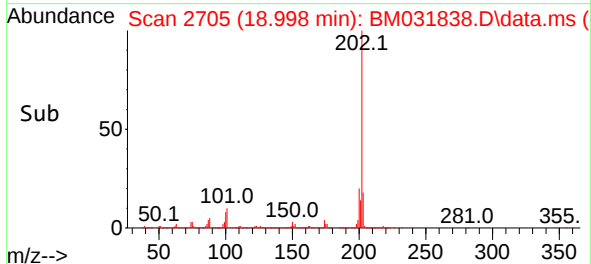
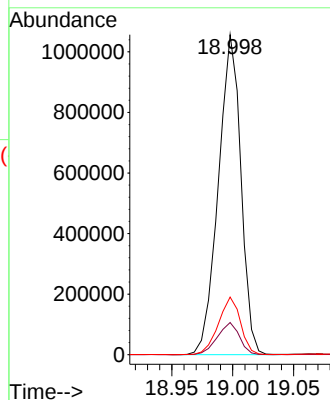
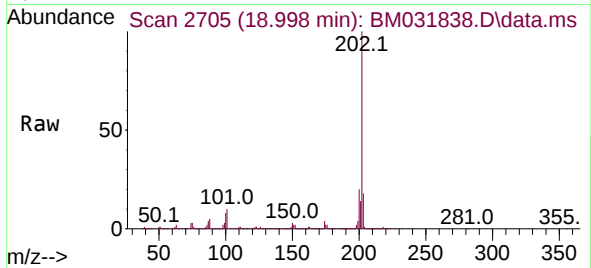
Tgt Ion:202 Resp: 1361578
Ion Ratio Lower Upper
202 100
101 10.1 0.0 28.6
203 18.0 0.0 37.3

Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

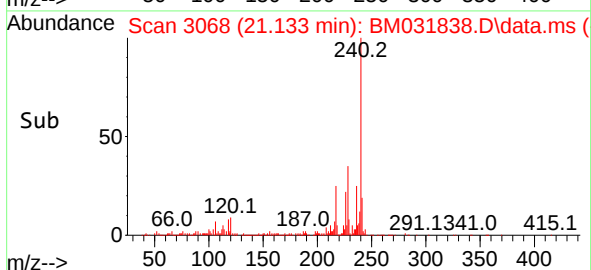
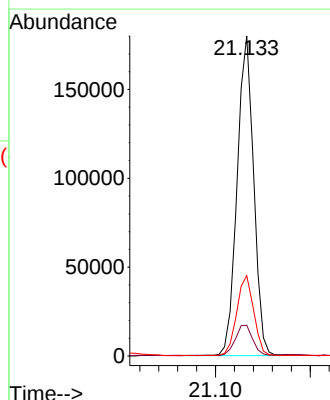
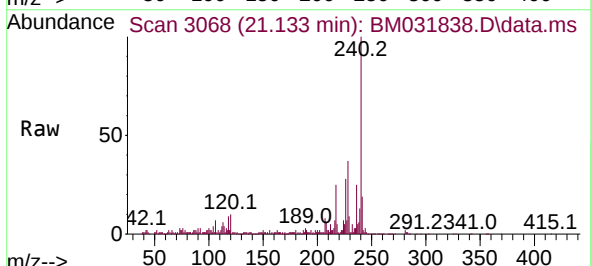
mohammad
8/23/2021 4:24:31 PM

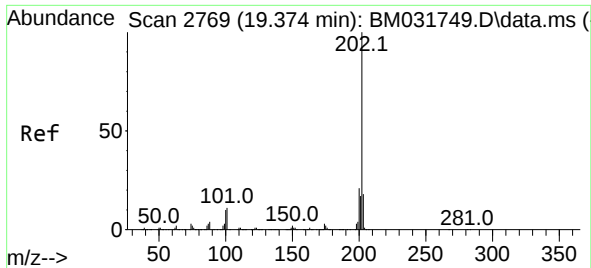
8/23/2021 4:24:31 PM



#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.133 min Scan# 3068
Delta R.T. 0.000 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

Tgt Ion:240 Resp: 217968
Ion Ratio Lower Upper
240 100
120 9.6 7.0 10.6
236 25.1 21.0 31.4





#78
Pyrene
Concen: 74.367 ng
RT: 19.362 min Scan# 2767
Delta R.T. 0.000 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

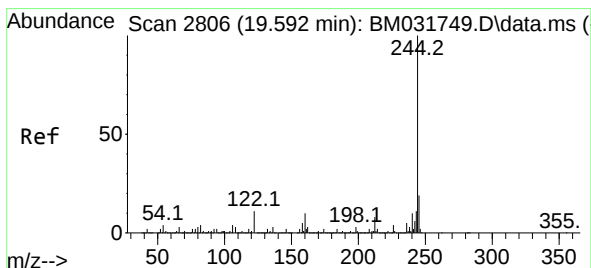
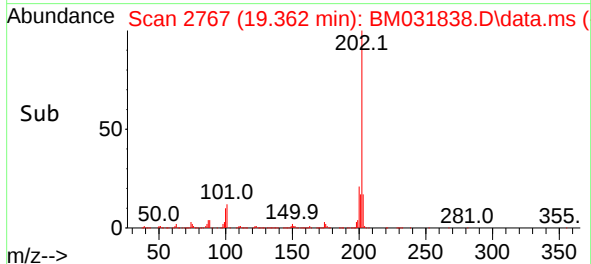
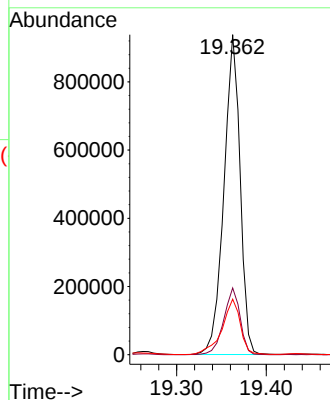
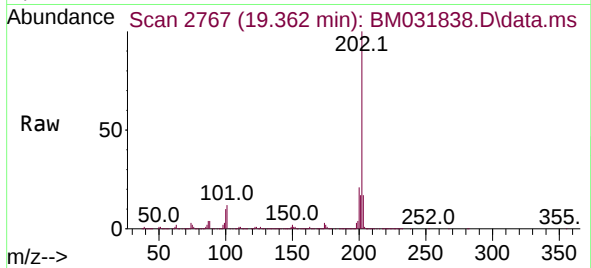
Tgt Ion:202 Resp: 1174291
Ion Ratio Lower Upper
202 100
200 20.8 17.3 25.9
203 17.3 13.9 20.9

Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

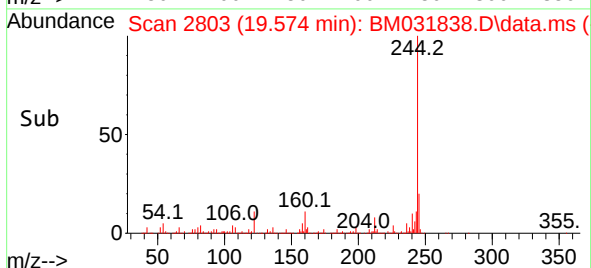
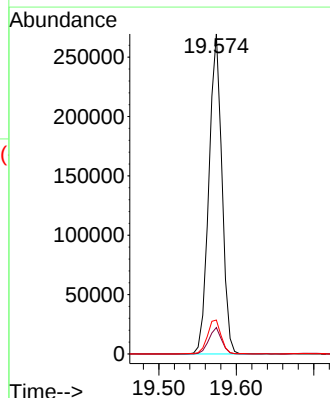
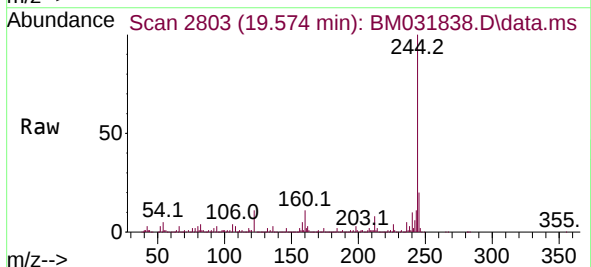
mohammad
8/23/2021 4:24:31 PM

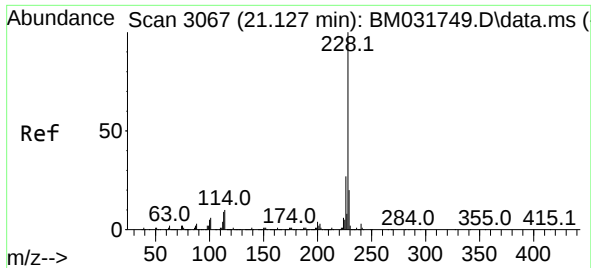
8/23/2021 4:24:31 PM



#79
Terphenyl-d14
Concen: 24.280 ng
RT: 19.574 min Scan# 2803
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

Tgt Ion:244 Resp: 314100
Ion Ratio Lower Upper
244 100
212 8.3 6.3 9.5
122 10.6 6.9 10.3#





#81
Benzo(a)anthracene
Concen: 33.738 ng
RT: 21.115 min Scan# 3065
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

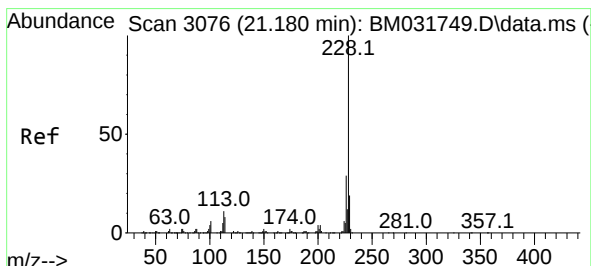
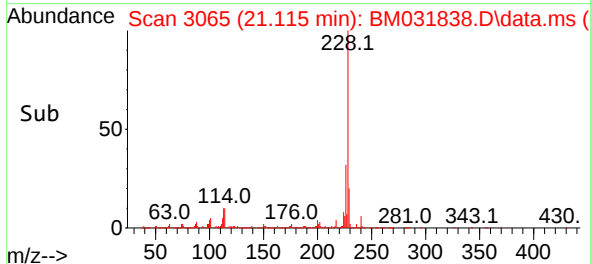
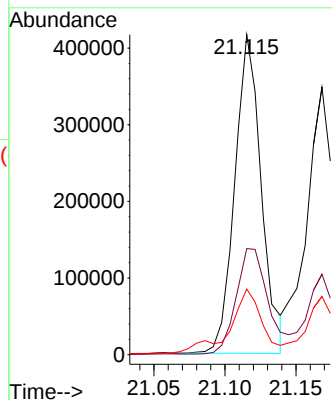
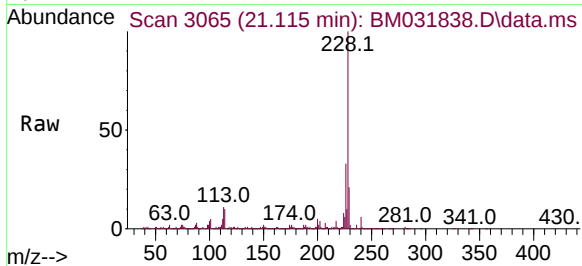
Tgt Ion:228 Resp: 538643
Ion Ratio Lower Upper
228 100
226 33.1 22.3 33.5
229 20.5 15.7 23.5

Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

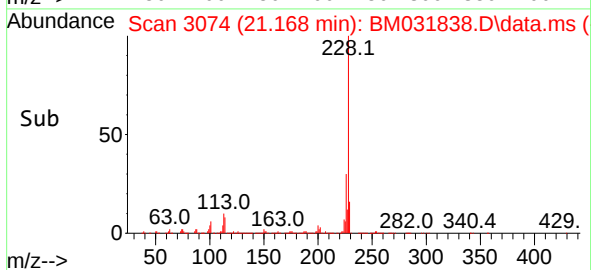
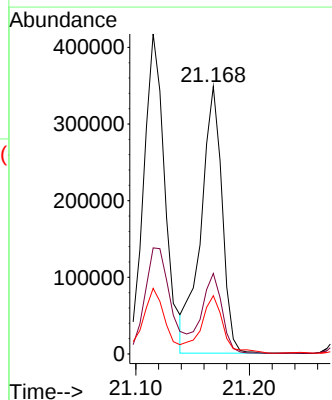
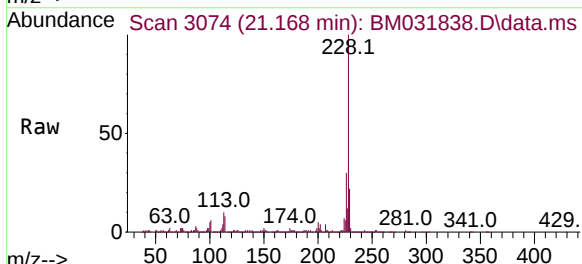
mohammad
8/23/2021 4:24:31 PM

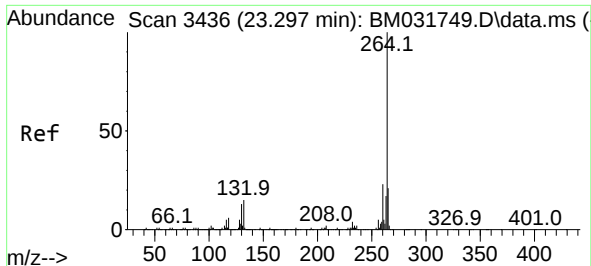
8/23/2021 4:24:31 PM



#83
Chrysene
Concen: 28.999 ng
RT: 21.168 min Scan# 3074
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

Tgt Ion:228 Resp: 451295
Ion Ratio Lower Upper
228 100
226 30.1 24.6 36.8
229 21.8 15.5 23.3





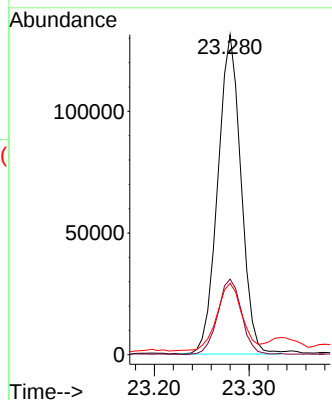
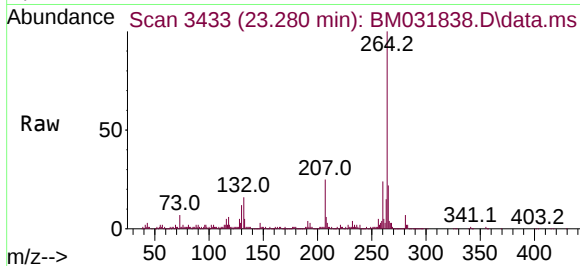
#86
Perylene-d12
Concen: 20.000 ng
RT: 23.280 min Scan# 3433
Delta R.T. 0.000 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

Tgt Ion:	264	Resp:	223456
Ion Ratio	Lower	Upper	
264	100		
260	23.6	19.8	29.8
265	22.3	17.7	26.5

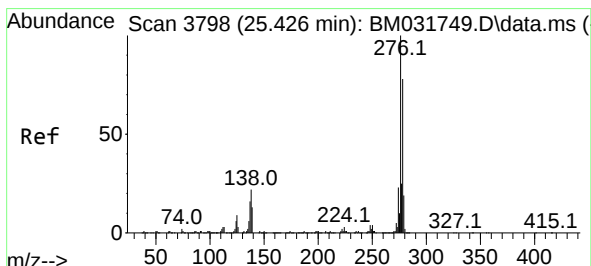
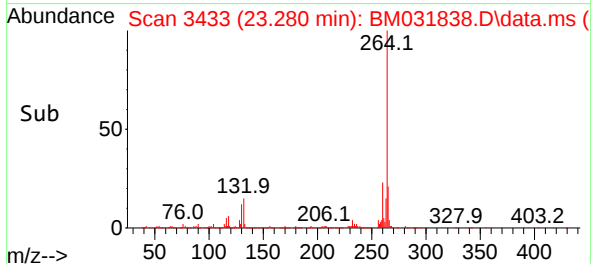
Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

mohammad
8/23/2021 4:24:31 PM

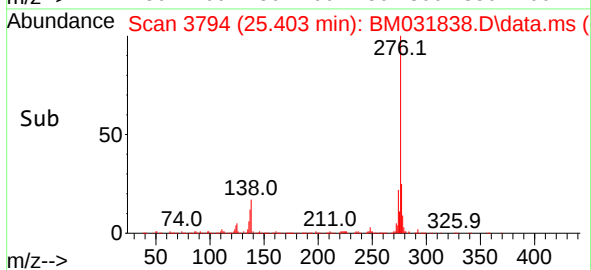
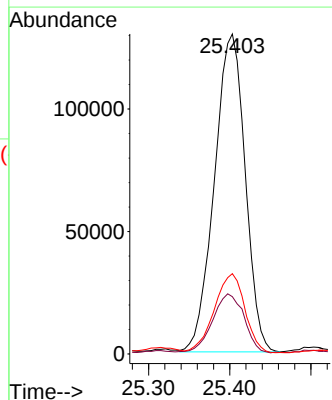
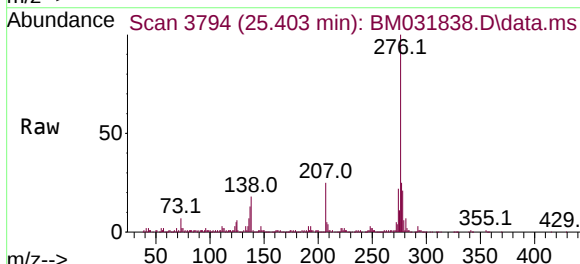


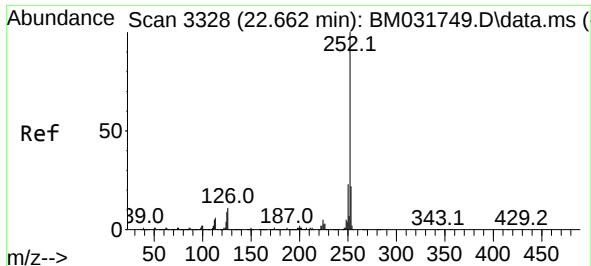
8/23/2021 4:24:31 PM



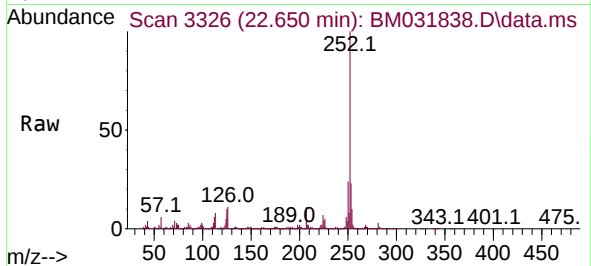
#87
Indeno(1,2,3-cd)pyrene
Concen: 21.713 ng
RT: 25.403 min Scan# 3794
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

Tgt Ion:	276	Resp:	341916
Ion Ratio	Lower	Upper	
276	100		
138	19.0	17.1	25.7
277	24.8	20.3	30.5

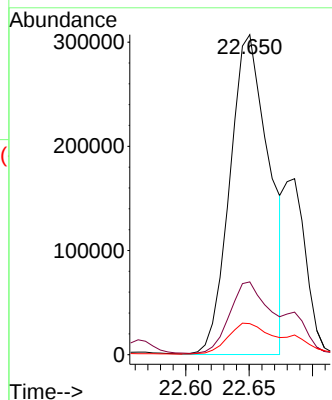
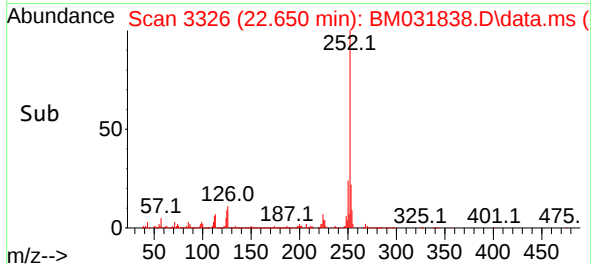




#88
Benzo(b)fluoranthene
Concen: 39.415 ng m
RT: 22.650 min Scan# 3326
Delta R.T. 0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



Tgt Ion:252 Resp: 661279
Ion Ratio Lower Upper
252 100
253 22.7 17.4 26.0
125 9.7 6.8 10.2

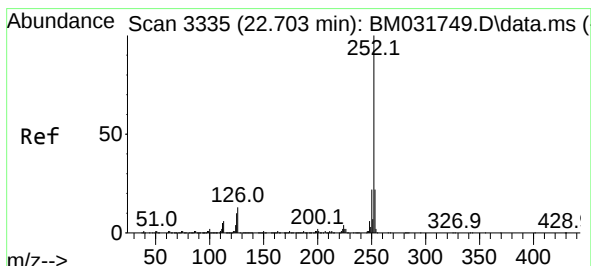


Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

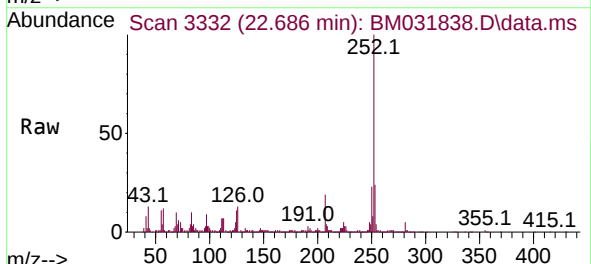
Manual Integrations
APPROVED

mohammad
8/23/2021 4:24:31 PM

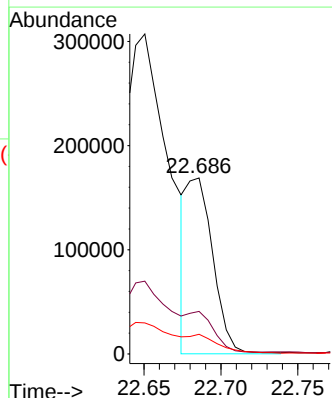
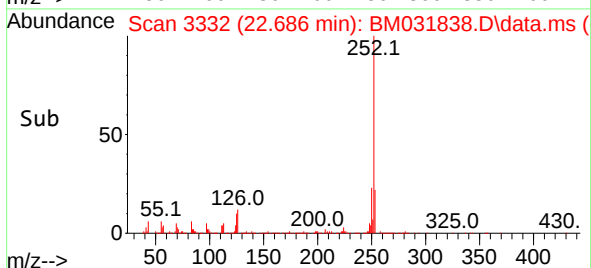
8/23/2021 4:24:31 PM

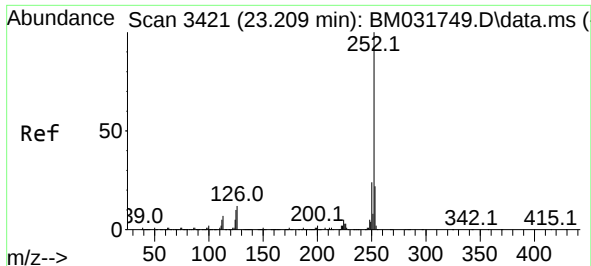


#89
Benzo(k)fluoranthene
Concen: 12.313 ng m
RT: 22.686 min Scan# 3332
Delta R.T. -0.006 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



Tgt Ion:252 Resp: 199389
Ion Ratio Lower Upper
252 100
253 24.2 17.4 26.2
125 11.2 6.2 9.2#





#90
Benzo(a)pyrene
Concen: 31.641 ng
RT: 23.192 min Scan# 3418
Delta R.T. 0.000 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

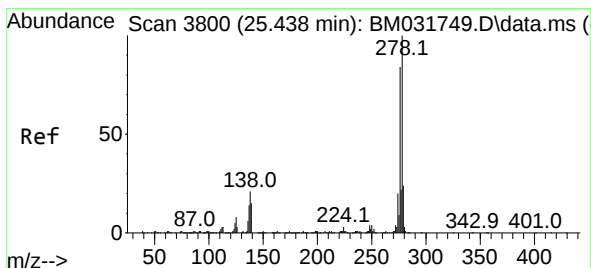
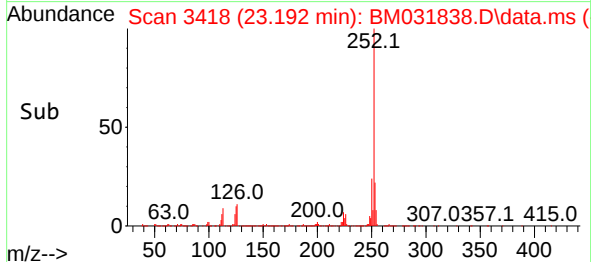
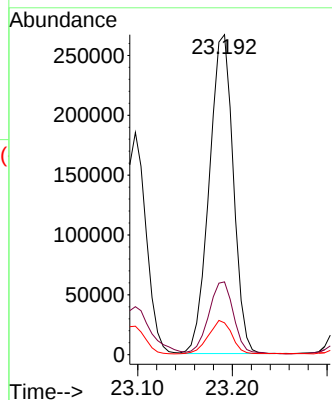
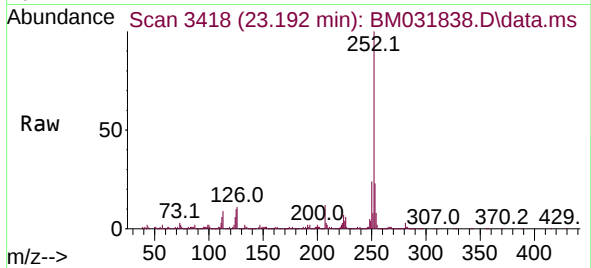
Tgt Ion:252 Resp: 470010
Ion Ratio Lower Upper
252 100
253 22.7 17.7 26.5
125 10.0 7.3 10.9

Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

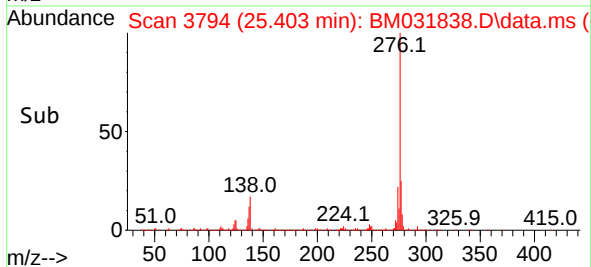
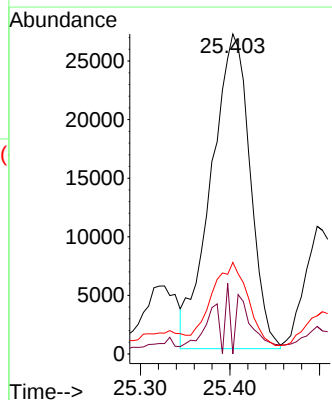
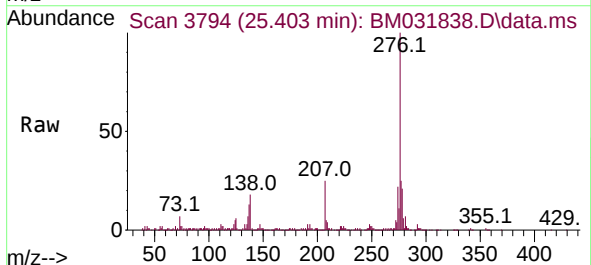
mohammad
8/23/2021 4:24:31 PM

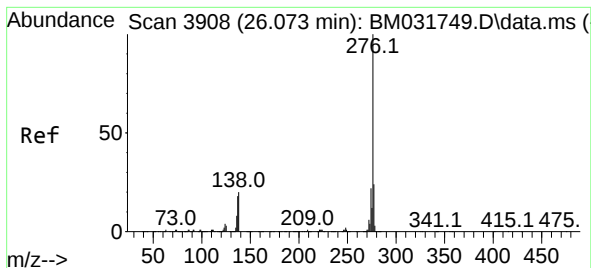
8/23/2021 4:24:31 PM



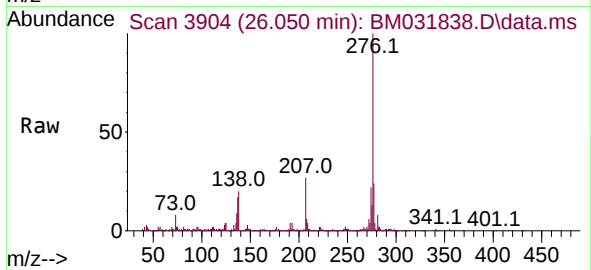
#91
Dibenzo(a,h)anthracene
Concen: 5.863 ng m
RT: 25.403 min Scan# 3794
Delta R.T. -0.018 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46

Tgt Ion:278 Resp: 81198
Ion Ratio Lower Upper
278 100
139 0.0 11.0 16.4#
279 28.6 18.7 28.1#

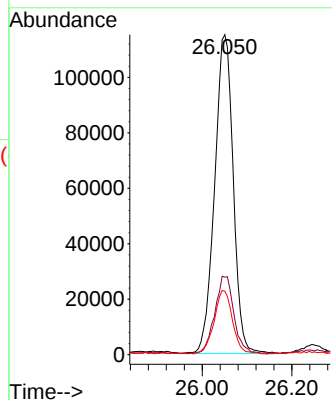
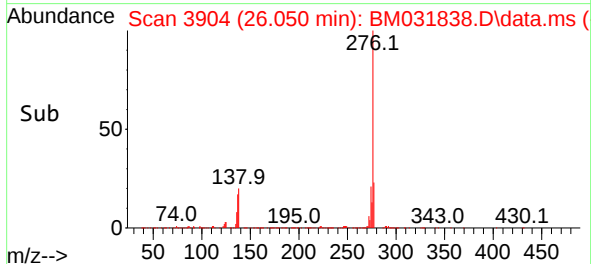




#92
Benzo(g,h,i)perylene
Concen: 26.315 ng
RT: 26.050 min Scan# 3904
Delta R.T. 0.000 min
Lab File: BM031838.D
Acq: 20 Aug 2021 12:46



Tgt Ion:	276	Resp:	331869
Ion Ratio	Lower	Upper	
276	100		
277	24.3	19.4	29.2
138	19.9	14.4	21.6



Instrument :
BNA_M
ClientSampleId :
SWCS-06-0002

Manual Integrations
APPROVED

mohammad
8/23/2021 4:24:31 PM

8/23/2021 4:24:31 PM