

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF123020\
 Data File : BF122878.D
 Acq On : 30 Dec 2020 14:54
 Operator : JU/CG
 Sample : L5242-05
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SAMPLE-3(474+26)

Manual Integrations
 APPROVED

mohammad
 12/31/2020 10:45:00 AM

Quant Time: Dec 30 15:22:12 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120520.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Dec 15 18:14:23 2020
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.816	152	118707	20.00	ng	0.00
21) Naphthalene-d8	8.104	136	461560	20.00	ng	0.00
39) Acenaphthene-d10	9.857	164	230391	20.00	ng	0.00
64) Phenanthrene-d10	11.351	188	373807	20.00	ng	0.00
76) Chrysene-d12	14.010	240	291791	20.00	ng	0.02
86) Perylene-d12	15.480	264	385790	20.00	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.440	112	578432	77.14	ng	0.00
7) Phenol-d6	6.457	99	694969	69.89	ng	0.00
23) Nitrobenzene-d5	7.381	82	441712	47.95	ng	-0.01
42) 2,4,6-Tribromophenol	10.651	330	204229	67.72	ng	0.00
45) 2-Fluorobiphenyl	9.180	172	818124	48.03	ng	0.00
79) Terphenyl-d14	12.939	244	782242	46.93	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.122	128	214657	8.43	ng	99
37) 2-Methylnaphthalene	8.816	142	145087	8.61	ng	96
38) 1-Methylnaphthalene	8.916	142	109393	6.86	ng	100
46) 1,1'-Biphenyl	9.280	154	60282	3.15	ng	96
49) Acenaphthylene	9.722	152	507688	21.70	ng	98
50) Dimethylphthalate	9.575	163	65709	3.57	ng	99
52) Acenaphthene	9.892	154	174413	11.52	ng	99
55) Dibenzofuran	10.063	168	401890	18.87	ng	97
58) Fluorene	10.404	166	194094	11.46	ng	99
71) Phenanthrene	11.386	178	3603590	162.21	ng	98
72) Anthracene	11.427	178	747974	33.95	ng	99
73) Carbazole	11.580	167	875758	43.84	ng	99
75) Fluoranthene	12.604	202	6974250	299.37	ng	98
78) Pyrene	12.827	202	5626527	249.40	ng	97
81) Benzo(a)anthracene	13.998	228	1860430m	95.40	ng	
83) Chrysene	14.051	228	3757216	193.61	ng	95
87) Indeno(1,2,3-cd)pyrene	16.951	276	1061420	41.91	ng	# 94
88) Benzo(b)fluoranthene	15.068	252	4204822m	155.34	ng	
89) Benzo(k)fluoranthene	15.098	252	1115923m	45.09	ng	
90) Benzo(a)pyrene	15.427	252	1100966	46.49	ng	95
91) Dibenzo(a,h)anthracene	16.951	278	241710m	11.66	ng	
92) Benzo(g,h,i)perylene	17.398	276	909951	45.36	ng	98

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

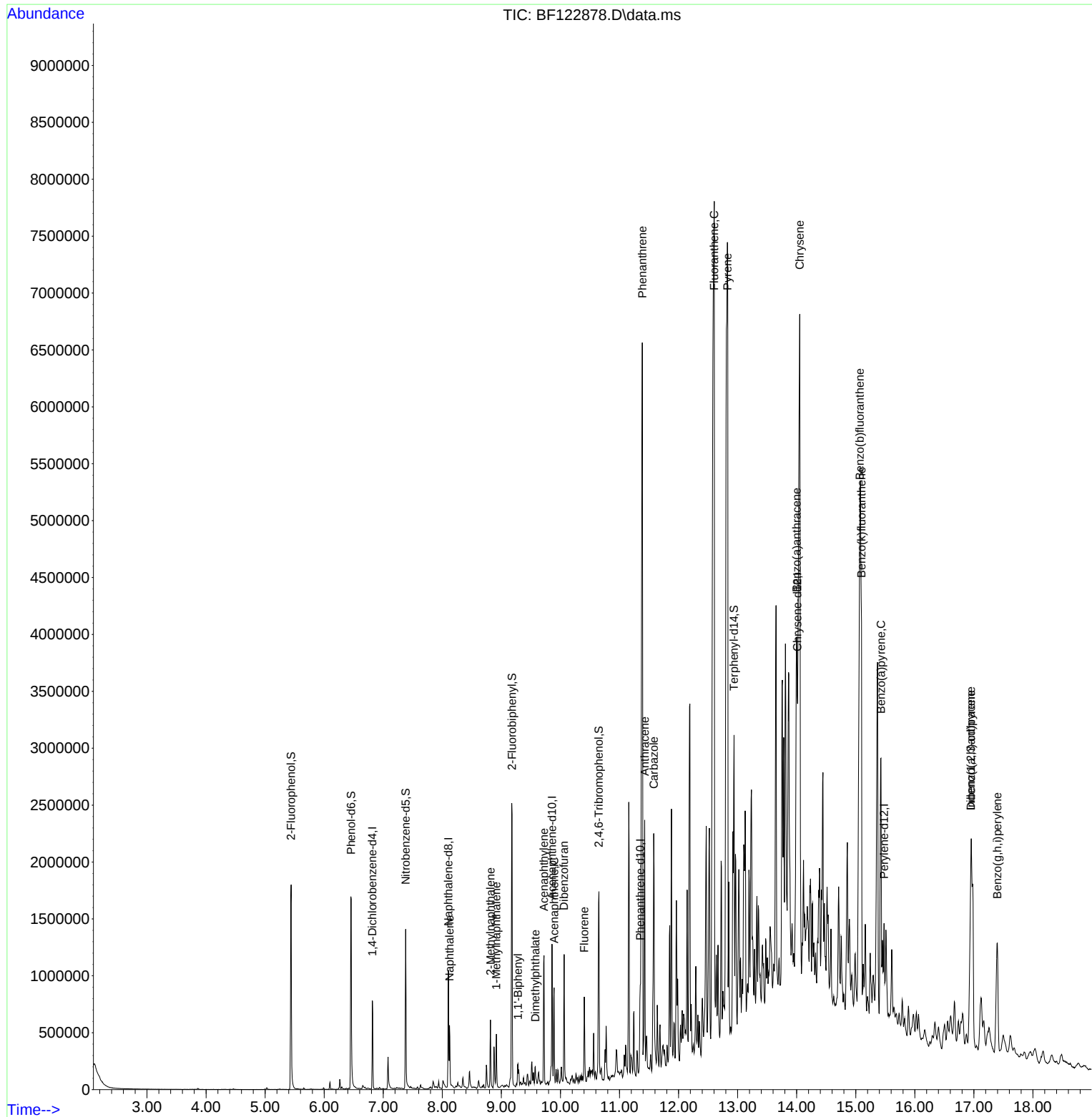
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF123020\
Data File : BF122878.D
Acq On : 30 Dec 2020 14:54
Operator : JU/CG
Sample : L5242-05
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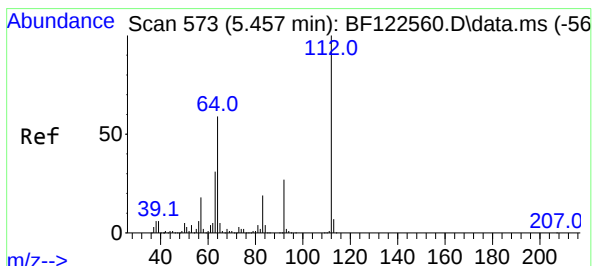
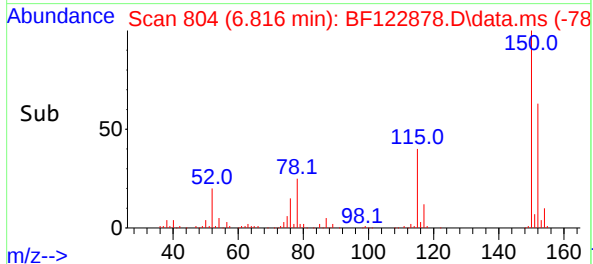
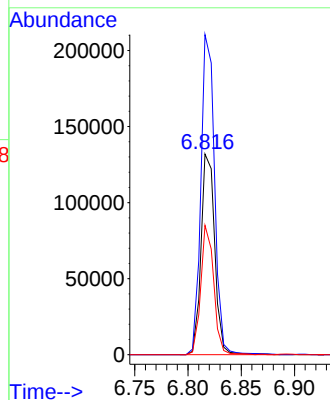
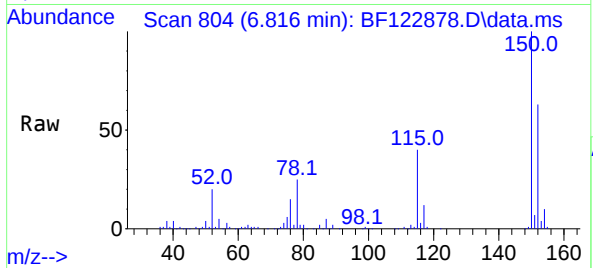
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.816 min Scan# 804
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion:152 Resp: 118707
Ion Ratio Lower Upper
152 100
150 159.5 125.8 188.6
115 64.4 49.3 73.9

Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)

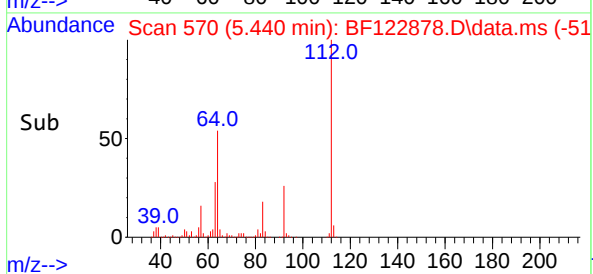
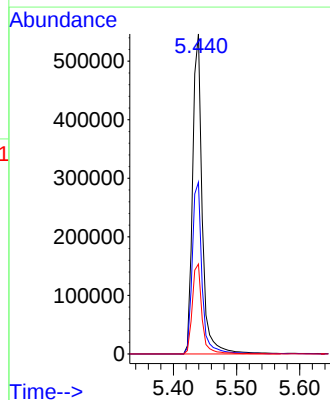
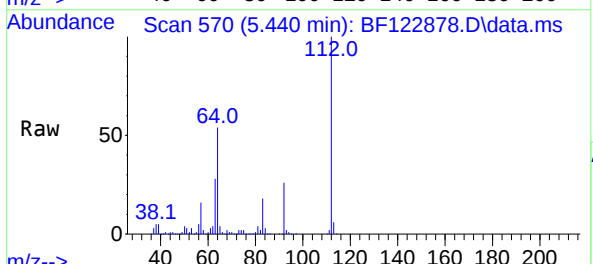
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#5
2-Fluorophenol
Concen: 77.14 ng
RT: 5.440 min Scan# 570
Delta R.T. 0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion:112 Resp: 578432
Ion Ratio Lower Upper
112 100
64 53.7 46.9 70.3
63 28.1 24.5 36.7





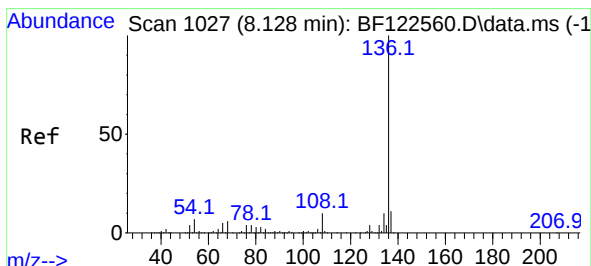
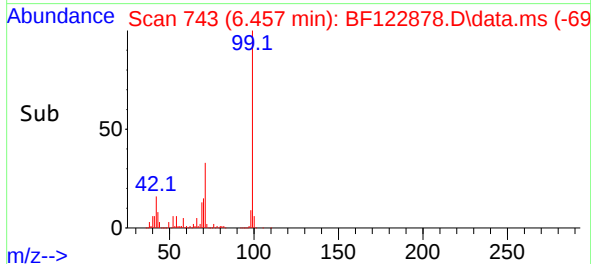
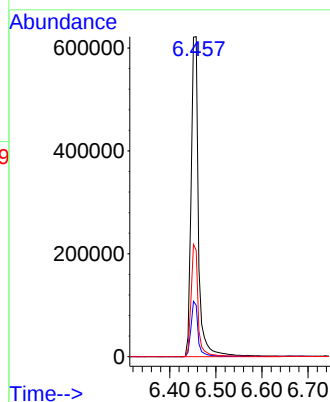
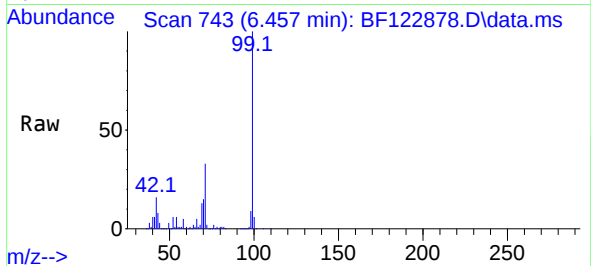
#7
Phenol-d6
Concen: 69.89 ng
RT: 6.457 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion:	99	Resp:	694969
Ion	Ratio	Lower	Upper
99	100		
42	16.0	13.8	20.6
71	33.2	26.9	40.3

Instrument :
BNA_F
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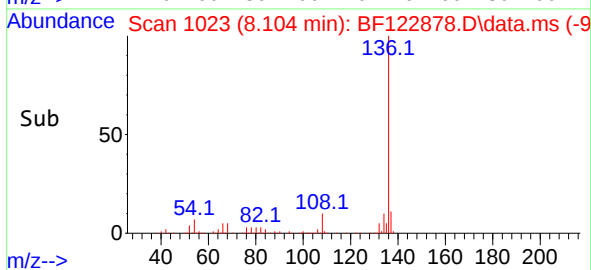
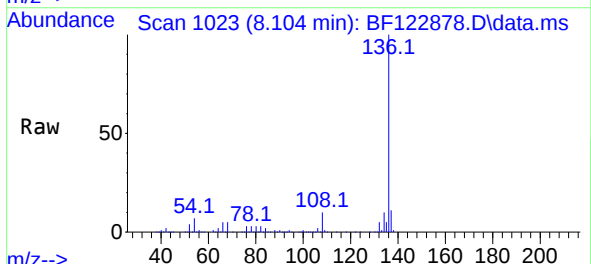
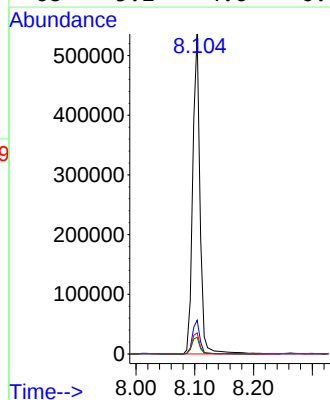
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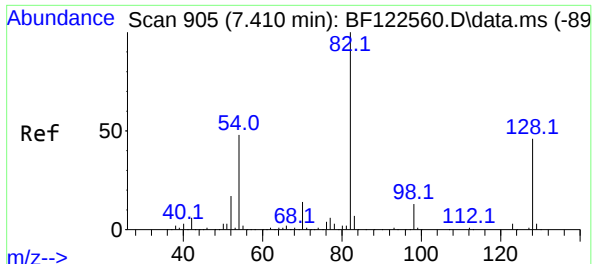
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#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.104 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion:	136	Resp:	461560
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.6	5.5	8.3
68	5.2	4.6	6.8





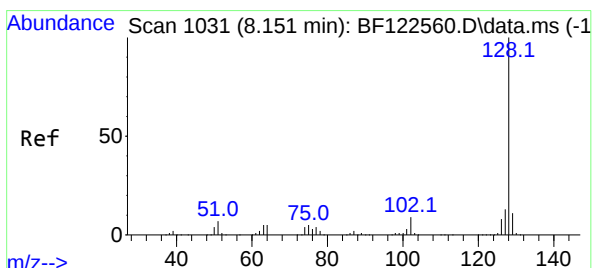
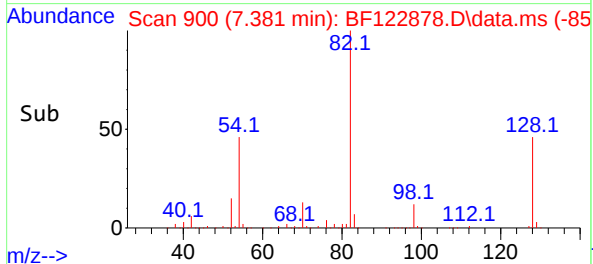
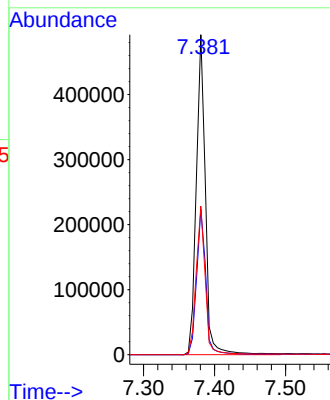
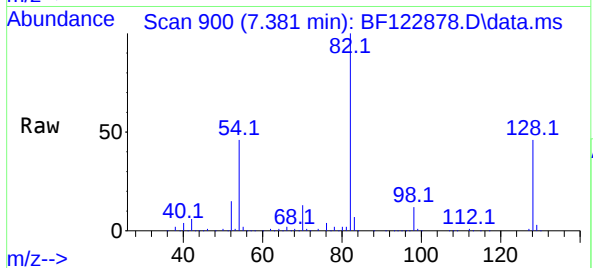
#23
Nitrobenzene-d5
Concen: 47.95 ng
RT: 7.381 min Scan# 900
Delta R.T. -0.012 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion: 82 Resp: 441712
Ion Ratio Lower Upper
82 100
128 45.5 37.0 55.4
54 46.4 38.4 57.6

Instrument :
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ClientSampleId :
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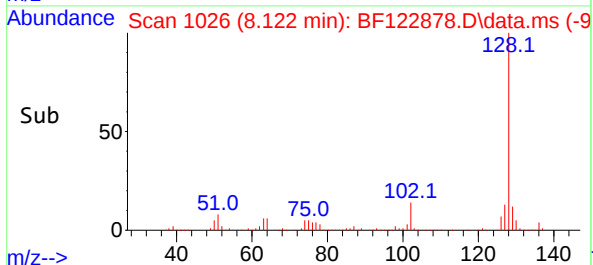
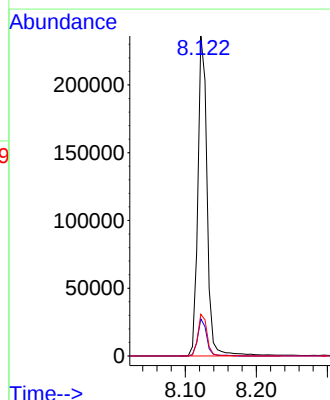
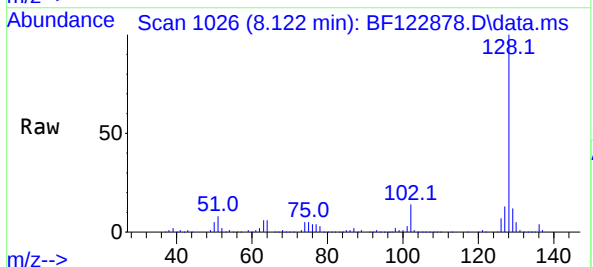
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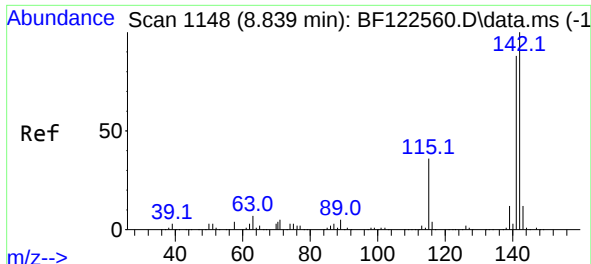
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#31
Naphthalene
Concen: 8.43 ng
RT: 8.122 min Scan# 1026
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

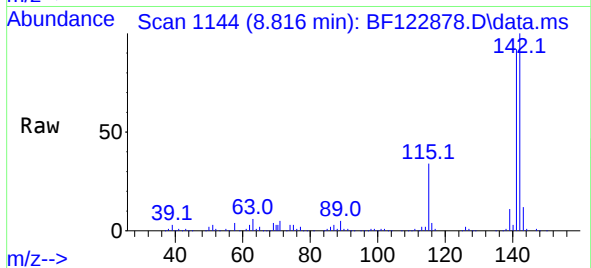
Tgt Ion: 128 Resp: 214657
Ion Ratio Lower Upper
128 100
129 11.6 9.0 13.6
127 13.1 10.7 16.1





#37
2-Methylnaphthalene
Concen: 8.61 ng
RT: 8.816 min Scan# 1144
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

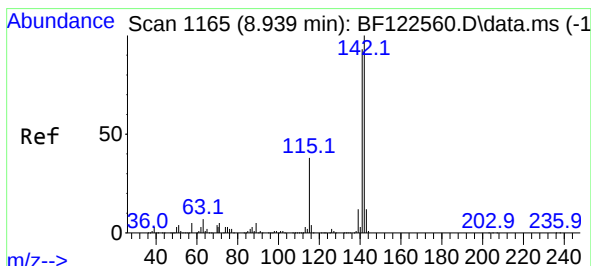
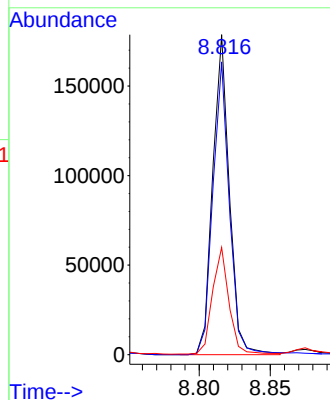
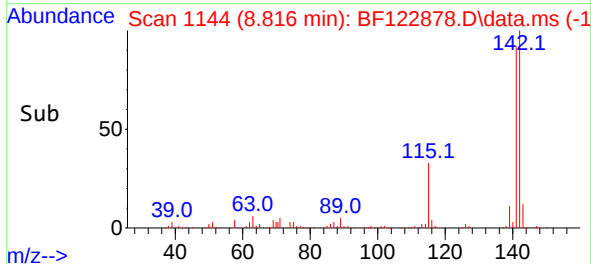
Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)



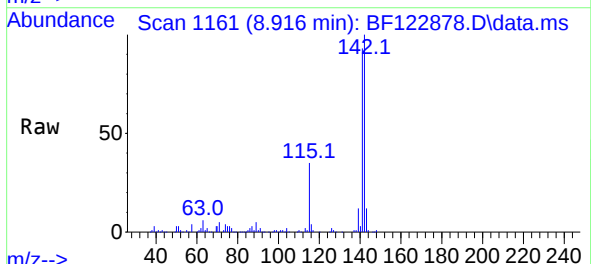
Tgt Ion:142 Resp: 145087
Ion Ratio Lower Upper
142 100
141 91.5 70.6 106.0
115 33.5 28.7 43.1

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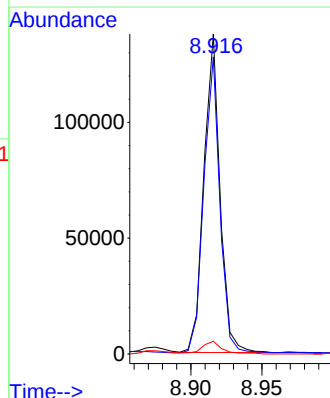
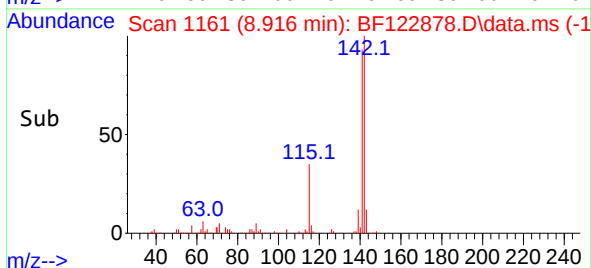
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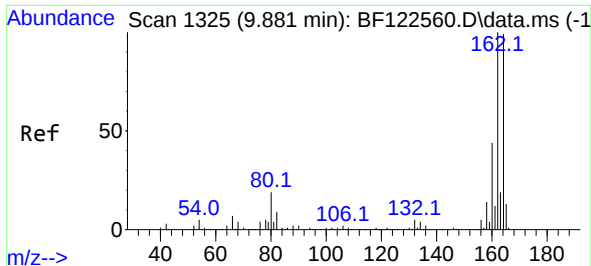


#38
1-Methylnaphthalene
Concen: 6.86 ng
RT: 8.916 min Scan# 1161
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



Tgt Ion:142 Resp: 109393
Ion Ratio Lower Upper
142 100
141 92.9 74.5 111.7
116 3.9 3.2 4.8





#39

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.857 min Scan# 1321

Delta R.T. -0.006 min

Lab File: BF122878.D

Acq: 30 Dec 2020 14:54

Tgt Ion:164 Resp: 230391

Ion Ratio Lower Upper

164 100

162 103.5 80.8 121.2

160 45.1 35.4 53.0

Instrument :

BNA_F

ClientSampleId :

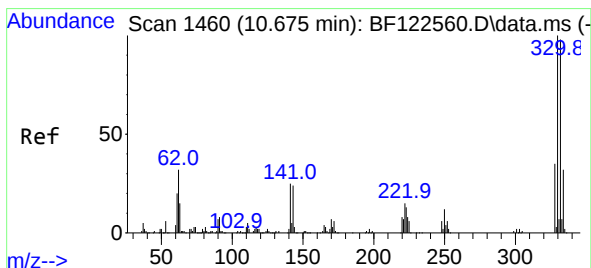
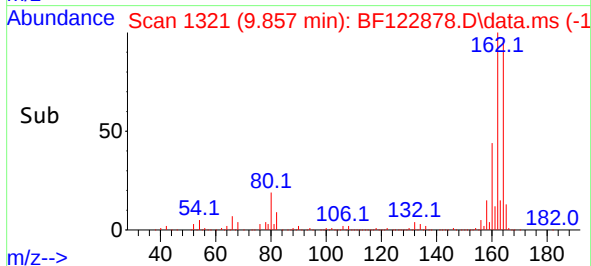
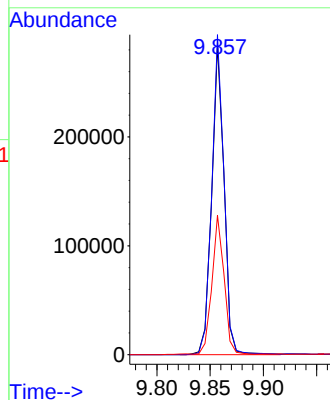
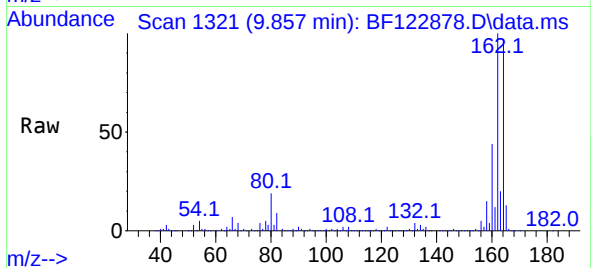
SAMPLE-3(474+26)

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#42

2,4,6-Tribromophenol

Concen: 67.72 ng

RT: 10.651 min Scan# 1456

Delta R.T. -0.000 min

Lab File: BF122878.D

Acq: 30 Dec 2020 14:54

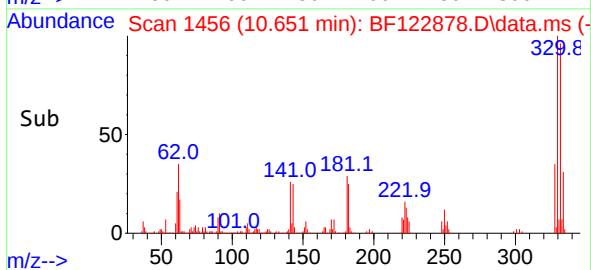
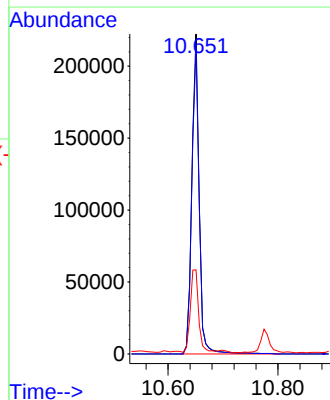
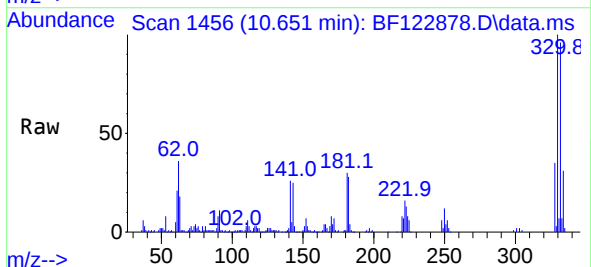
Tgt Ion:330 Resp: 204229

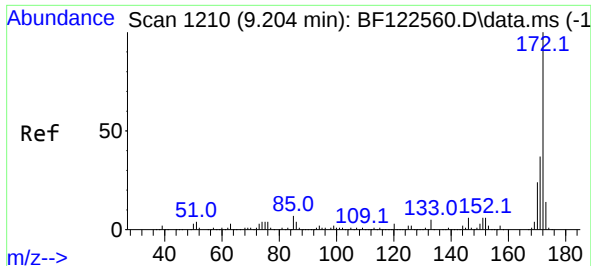
Ion Ratio Lower Upper

330 100

332 96.5 77.5 116.3

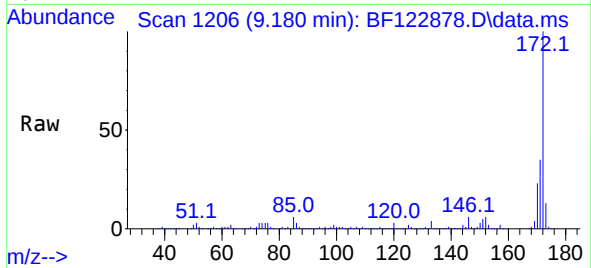
141 28.3 23.8 35.8





#45
2-Fluorobiphenyl
Concen: 48.03 ng
RT: 9.180 min Scan# 1206
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

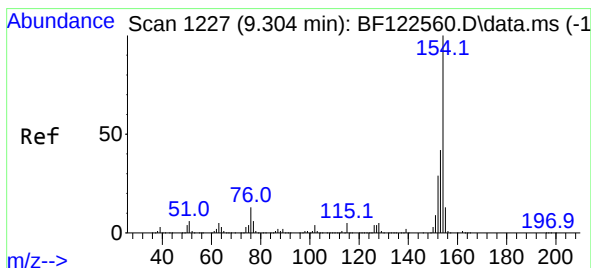
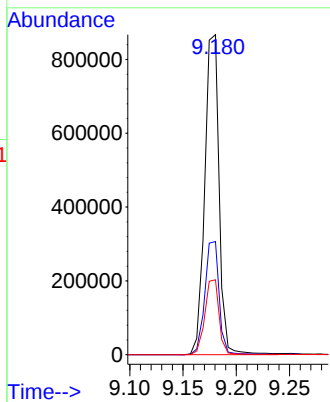
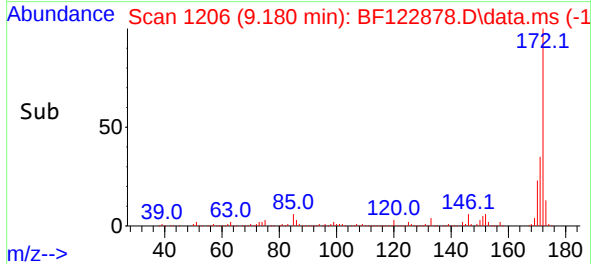
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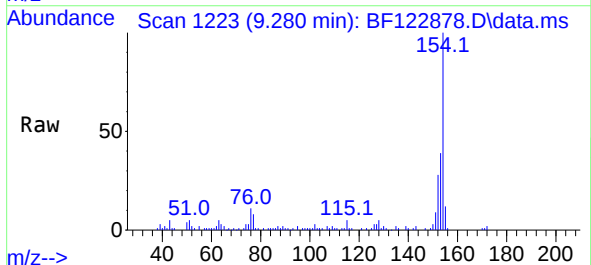
Tgt Ion:172 Resp: 818124
Ion Ratio Lower Upper
172 100
171 35.4 29.6 44.4
170 23.4 19.5 29.3

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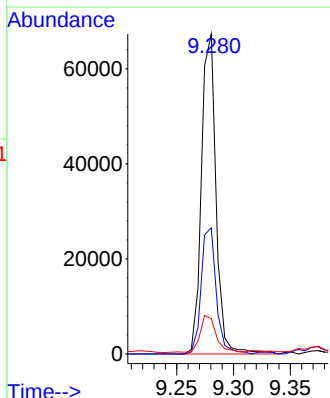
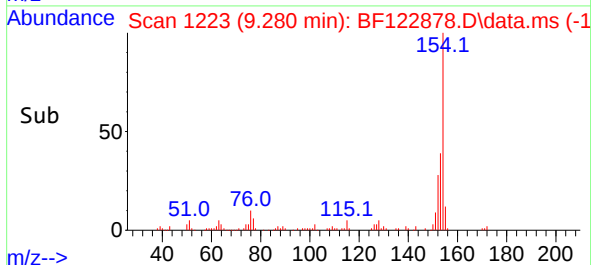
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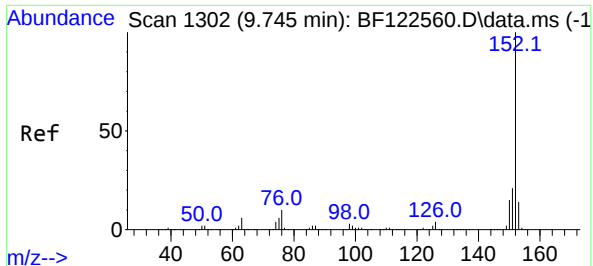


#46
1,1'-Biphenyl
Concen: 3.15 ng
RT: 9.280 min Scan# 1223
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



Tgt Ion:154 Resp: 60282
Ion Ratio Lower Upper
154 100
153 39.4 21.8 61.8
76 11.0 0.0 33.4





#49

Acenaphthylene

Concen: 21.70 ng

RT: 9.722 min Scan# 1298

Delta R.T. -0.000 min

Lab File: BF122878.D

Acq: 30 Dec 2020 14:54

Tgt Ion:	152	Resp:	507688
Ion Ratio	Lower	Upper	
152	100		
151	19.9	16.6	25.0
153	12.9	10.9	16.3

Instrument :

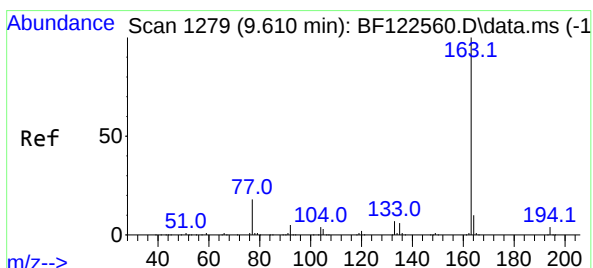
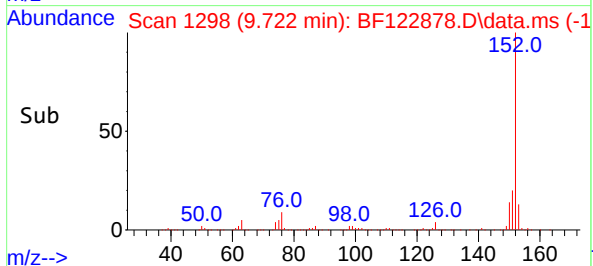
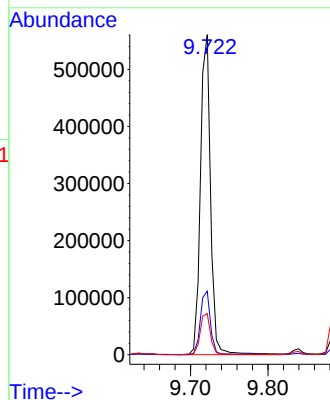
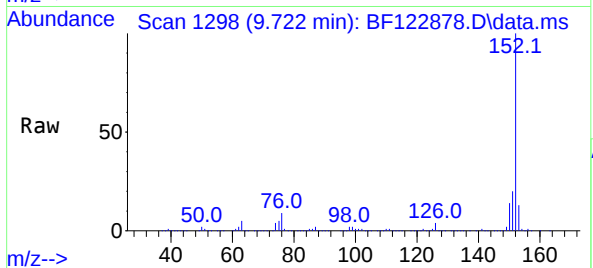
BNA_F

ClientSampleId :

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#50

Dimethylphthalate

Concen: 3.57 ng

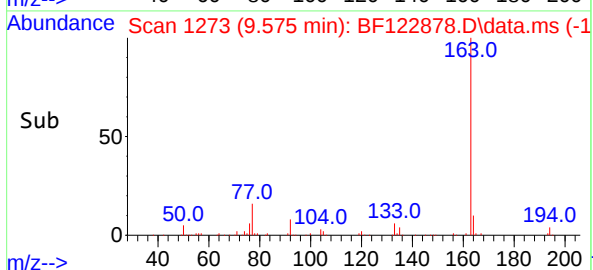
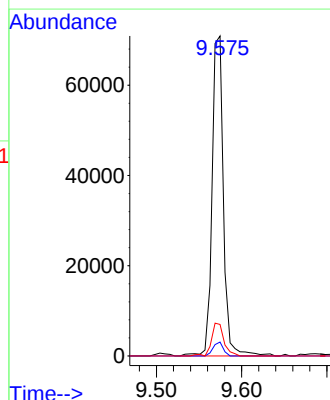
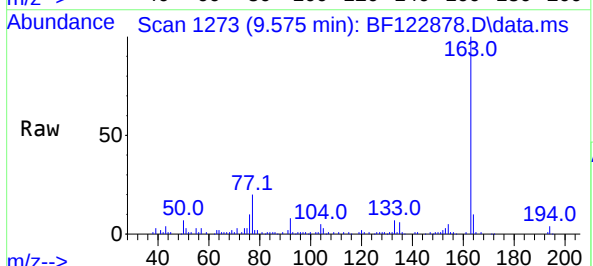
RT: 9.575 min Scan# 1273

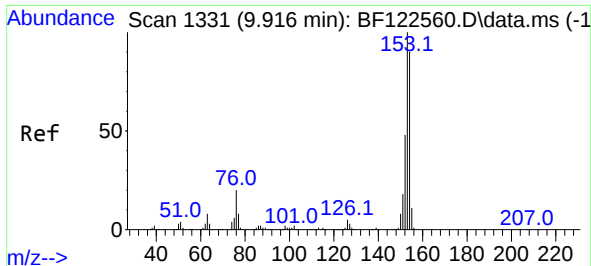
Delta R.T. -0.012 min

Lab File: BF122878.D

Acq: 30 Dec 2020 14:54

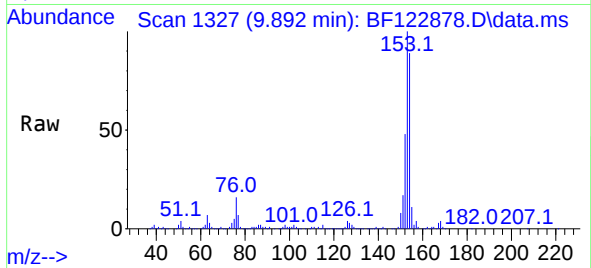
Tgt Ion:	163	Resp:	65709
Ion Ratio	Lower	Upper	
163	100		
194	4.3	3.4	5.0
164	9.8	8.1	12.1





#52
Acenaphthene
Concen: 11.52 ng
RT: 9.892 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

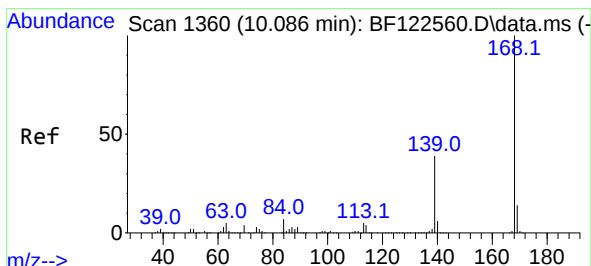
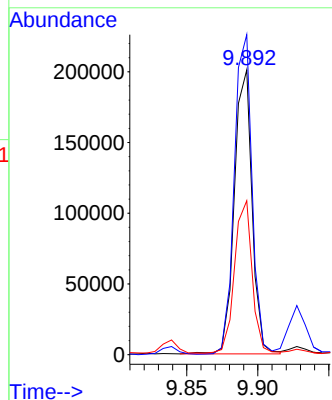
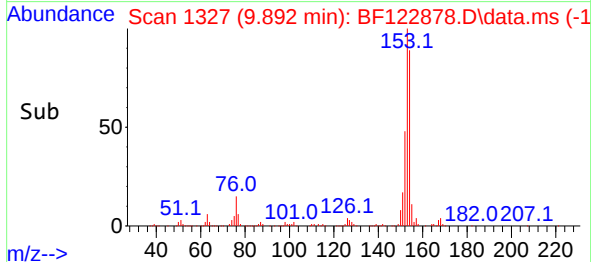
Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)



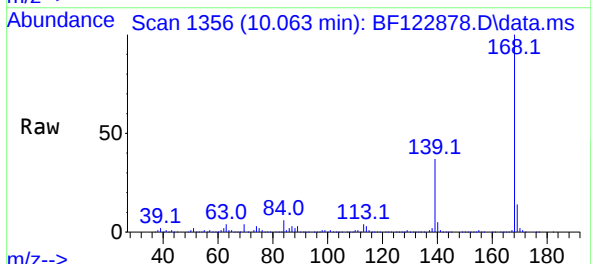
Tgt Ion:154 Resp: 174413
Ion Ratio Lower Upper
154 100
153 112.3 89.0 133.6
152 54.1 42.7 64.1

Manual Integrations
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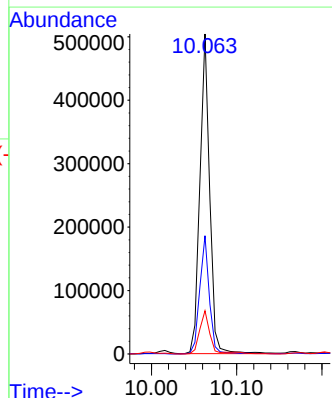
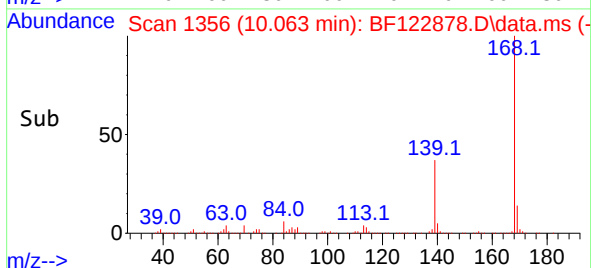
mohammad
12/31/2020 10:45:00 AM

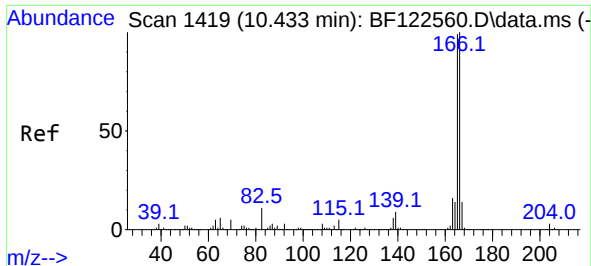


#55
Dibenzofuran
Concen: 18.87 ng
RT: 10.063 min Scan# 1356
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



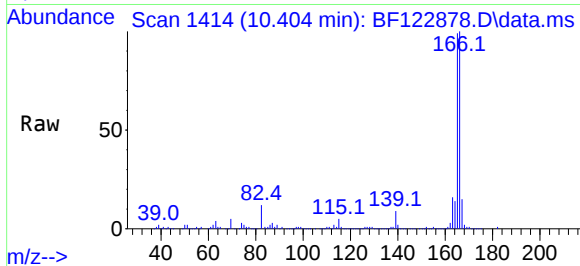
Tgt Ion:168 Resp: 401890
Ion Ratio Lower Upper
168 100
139 37.0 31.3 46.9
169 13.5 11.2 16.8





#58
Fluorene
Concen: 11.46 ng
RT: 10.404 min Scan# 1414
Delta R.T. -0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

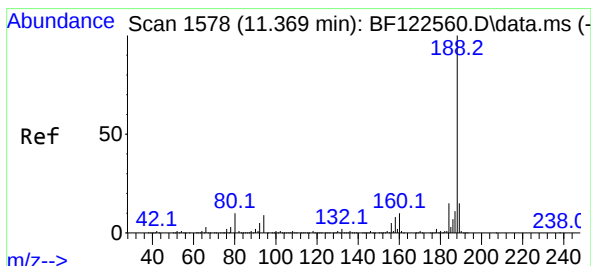
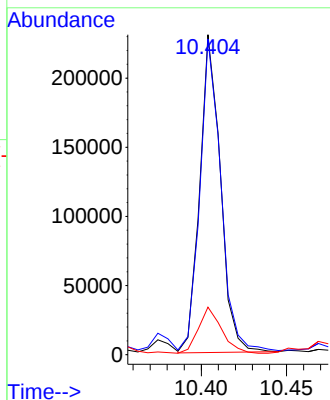
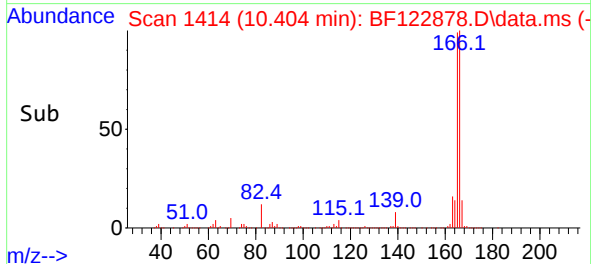
Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)



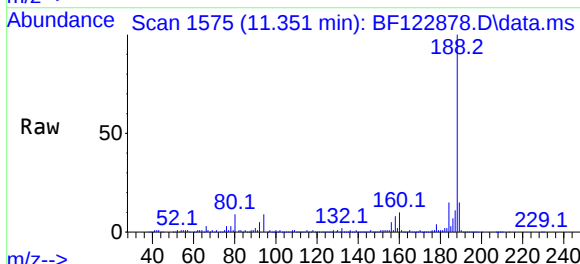
Tgt Ion:166 Resp: 194094
Ion Ratio Lower Upper
166 100
165 98.6 79.4 119.0
167 14.8 10.9 16.3

Manual Integrations
APPROVED

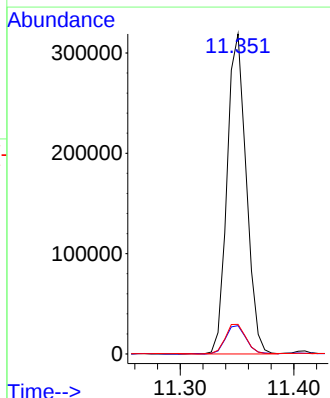
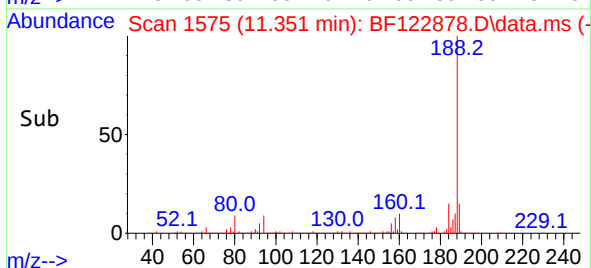
mohammad
12/31/2020 10:45:00 AM

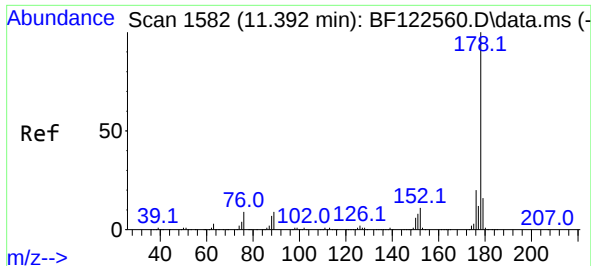


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.351 min Scan# 1575
Delta R.T. 0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



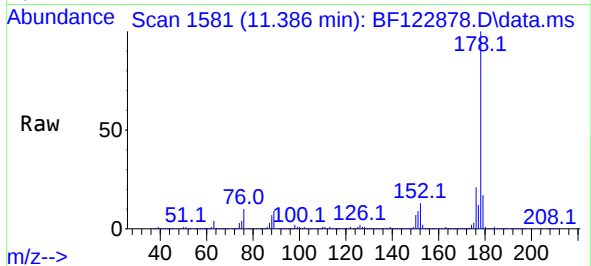
Tgt Ion:188 Resp: 373807
Ion Ratio Lower Upper
188 100
94 8.9 7.4 11.2
80 9.3 8.2 12.4





#71
Phenanthrene
Concen: 162.21 ng
RT: 11.386 min Scan# 1581
Delta R.T. 0.017 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

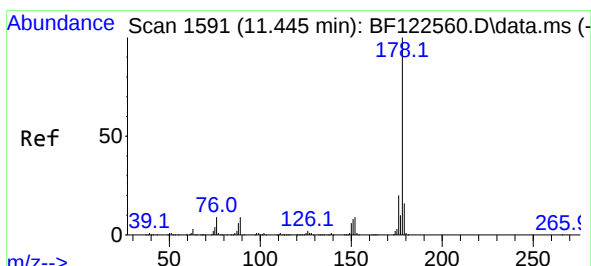
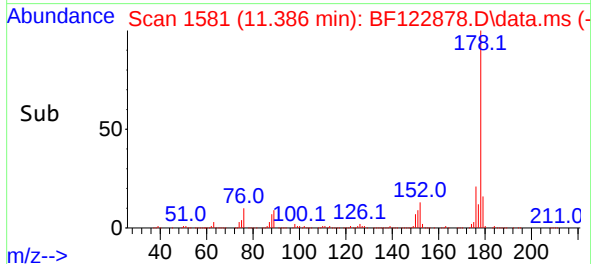
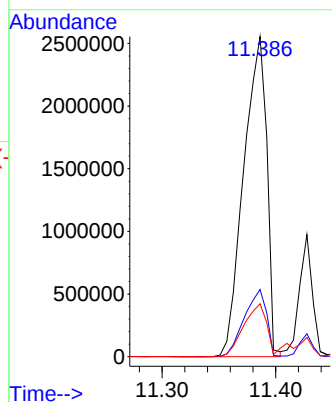
Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)



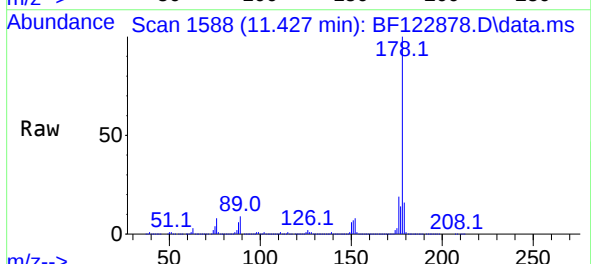
Tgt Ion:178 Resp: 3603590
Ion Ratio Lower Upper
178 100
176 21.0 16.2 24.2
179 16.5 12.7 19.1

Manual Integrations
APPROVED

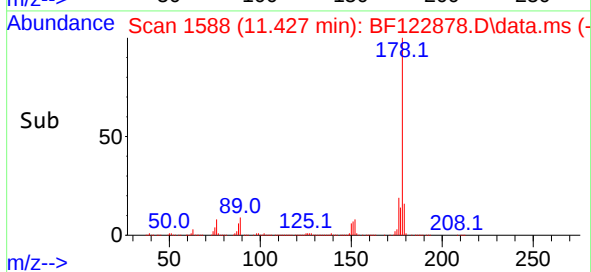
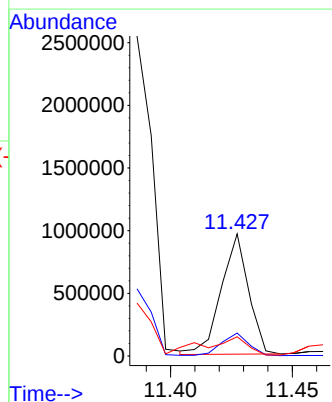
mohammad
12/31/2020 10:45:00 AM

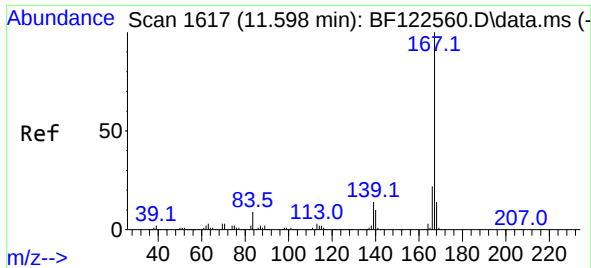


#72
Anthracene
Concen: 33.95 ng
RT: 11.427 min Scan# 1588
Delta R.T. 0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



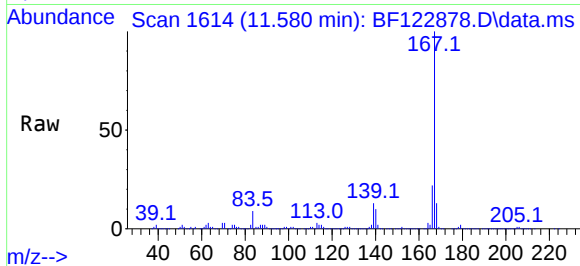
Tgt Ion:178 Resp: 747974
Ion Ratio Lower Upper
178 100
176 18.7 15.6 23.4
179 15.7 12.8 19.2





#73
 Carbazole
 Concen: 43.84 ng
 RT: 11.580 min Scan# 1614
 Delta R.T. 0.006 min
 Lab File: BF122878.D
 Acq: 30 Dec 2020 14:54

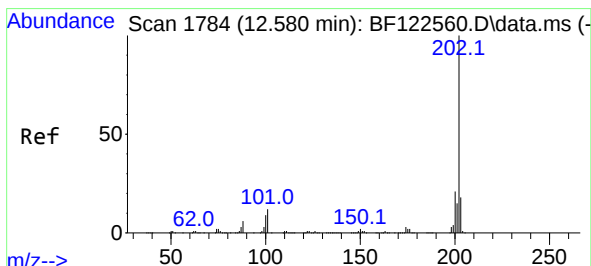
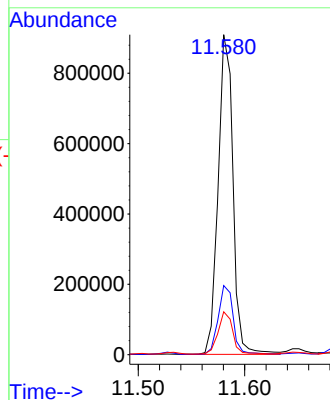
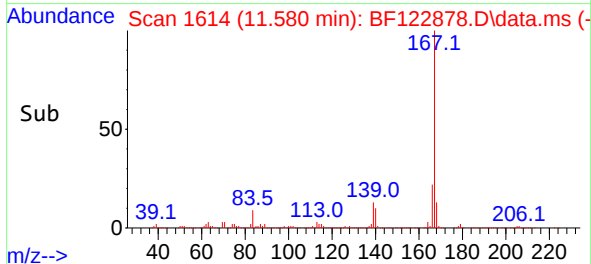
Instrument :
 BNA_F
 ClientSampleId :
 SAMPLE-3(474+26)



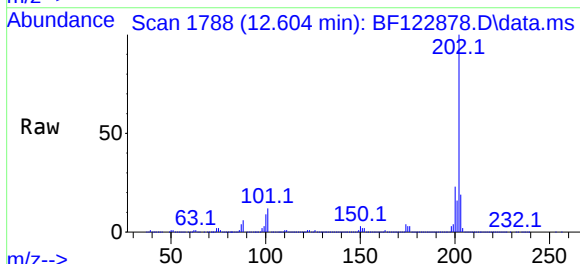
Tgt Ion:167 Resp: 875758
 Ion Ratio Lower Upper
 167 100
 166 21.6 18.0 27.0
 139 13.4 10.9 16.3

Manual Integrations
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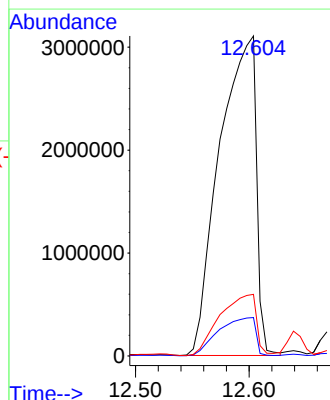
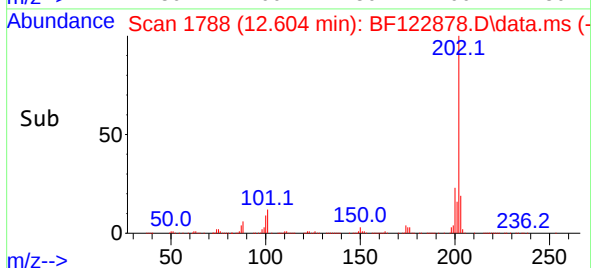
mohammad
 12/31/2020 10:45:00 AM

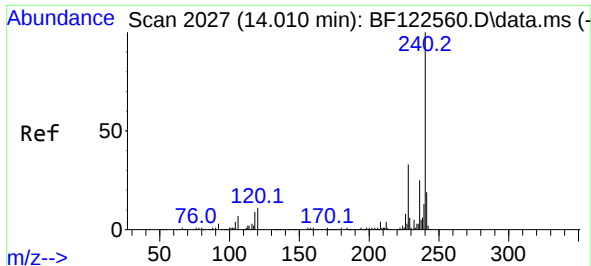


#75
 Fluoranthene
 Concen: 299.37 ng
 RT: 12.604 min Scan# 1788
 Delta R.T. 0.047 min
 Lab File: BF122878.D
 Acq: 30 Dec 2020 14:54

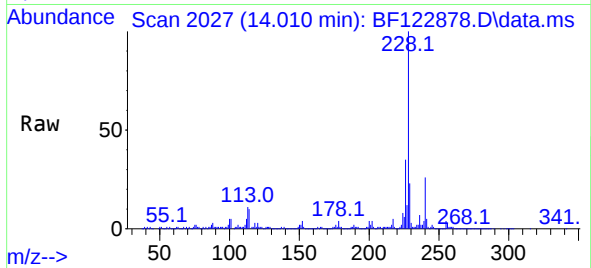


Tgt Ion:202 Resp: 6974250
 Ion Ratio Lower Upper
 202 100
 101 12.0 0.0 32.2
 203 19.3 0.0 38.1

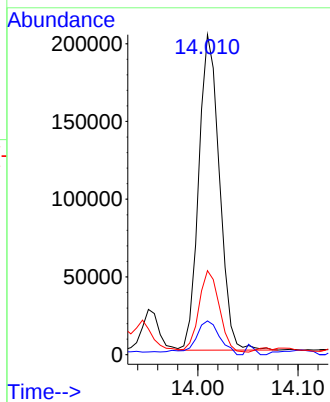
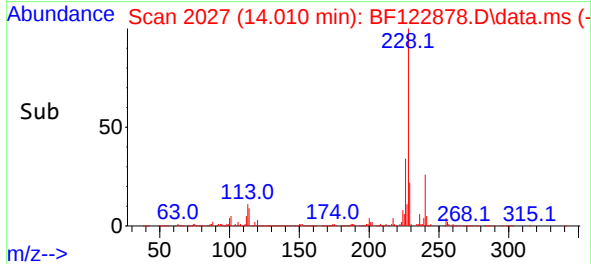




#76
Chrysene-d12
Concen: 20.00 ng
RT: 14.010 min Scan# 2027
Delta R.T. 0.023 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



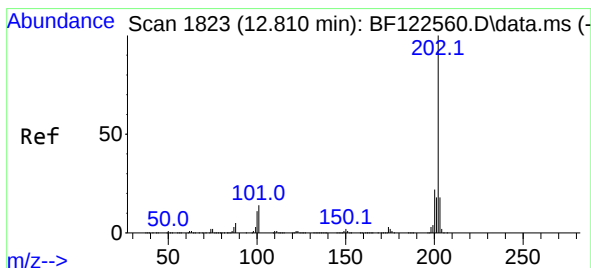
Tgt Ion:240 Resp: 291791
Ion Ratio Lower Upper
240 100
120 10.6 8.6 12.8
236 26.2 20.3 30.5



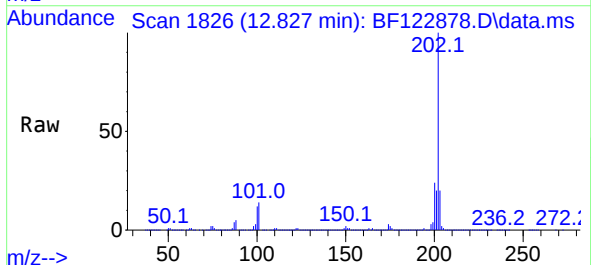
Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)

Manual Integrations
APPROVED

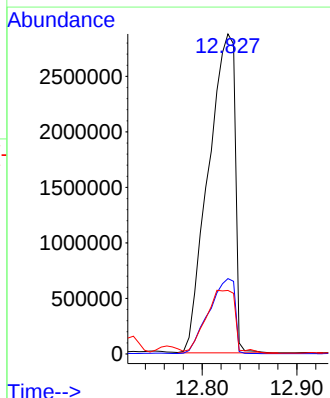
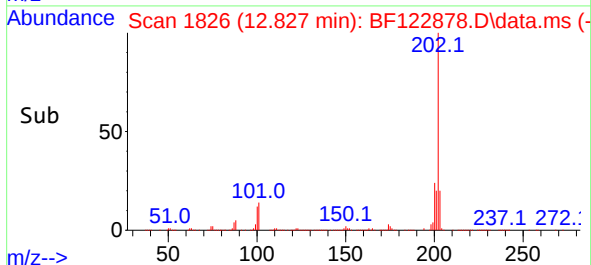
mohammad
12/31/2020 10:45:00 AM

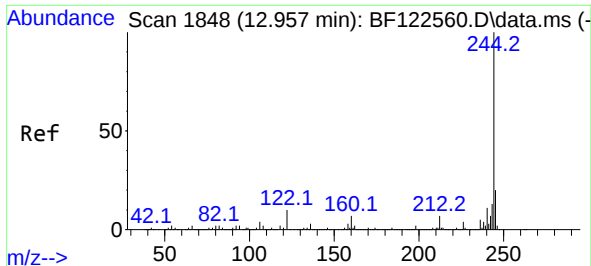


#78
Pyrene
Concen: 249.40 ng
RT: 12.827 min Scan# 1826
Delta R.T. 0.041 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



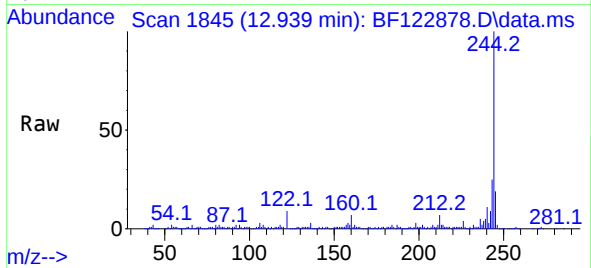
Tgt Ion:202 Resp: 5626527
Ion Ratio Lower Upper
202 100
200 23.5 17.6 26.4
203 19.8 14.6 21.8





#79
Terphenyl-d14
Concen: 46.93 ng
RT: 12.939 min Scan# 1845
Delta R.T. 0.006 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

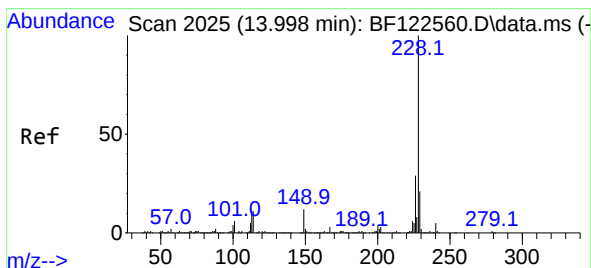
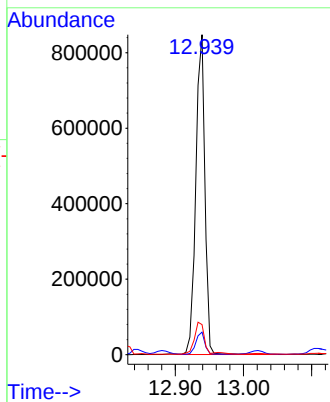
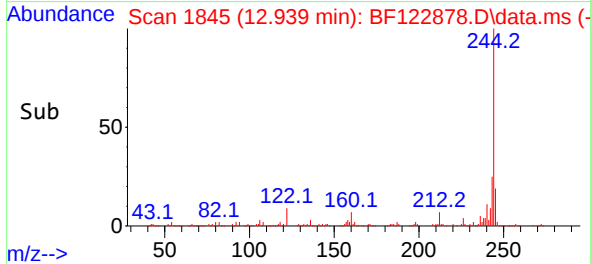
Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)



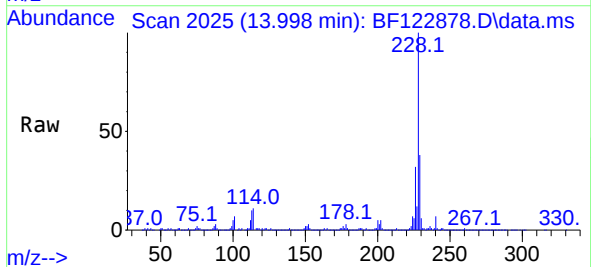
Tgt Ion:244 Resp: 782242
Ion Ratio Lower Upper
244 100
212 7.1 5.7 8.5
122 9.4 8.3 12.5

Manual Integrations
APPROVED

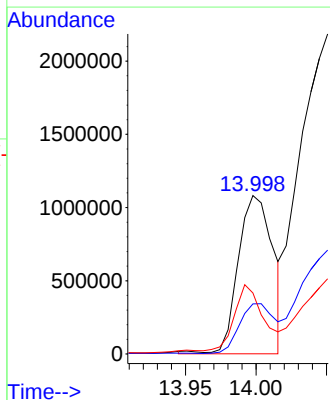
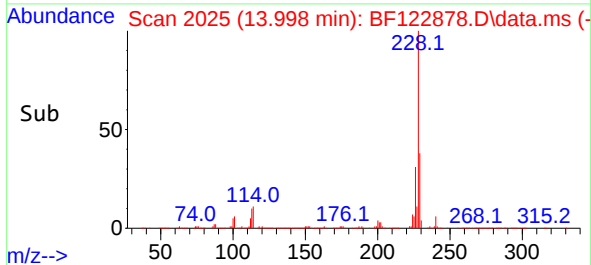
mohammad
12/31/2020 10:45:00 AM

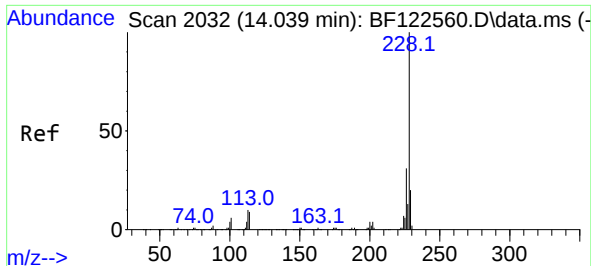


#81
Benzo(a)anthracene
Concen: 95.40 ng m
RT: 13.998 min Scan# 2025
Delta R.T. 0.023 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

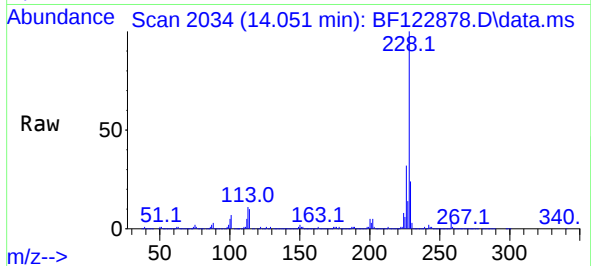


Tgt Ion:228 Resp: 1860430
Ion Ratio Lower Upper
228 100
226 31.6 23.0 34.4
229 38.5 16.6 24.8#

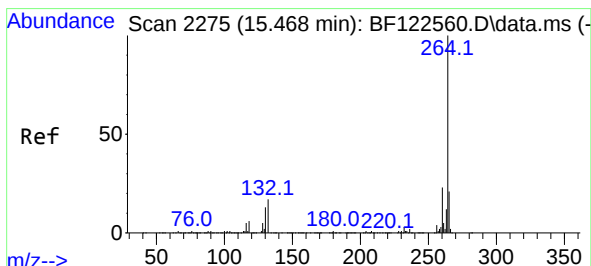
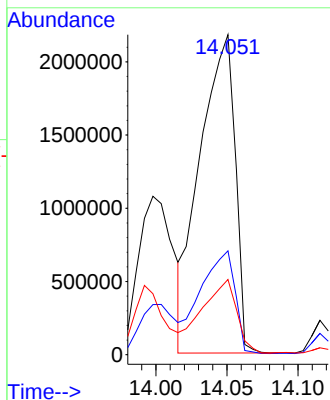
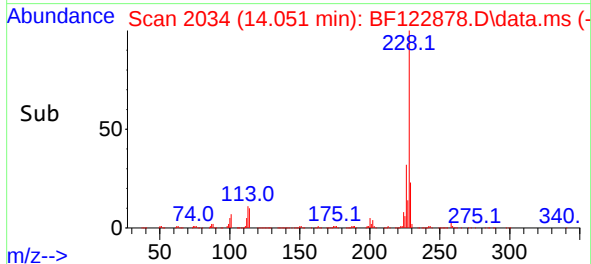




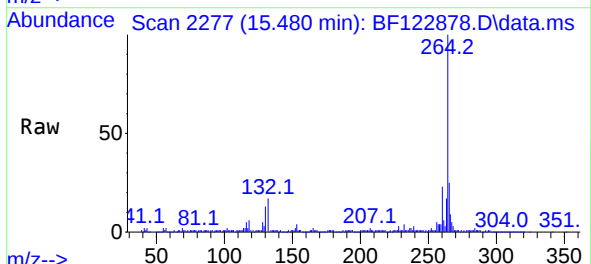
#83
Chrysene
Concen: 193.61 ng
RT: 14.051 min Scan# 2034
Delta R.T. 0.035 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



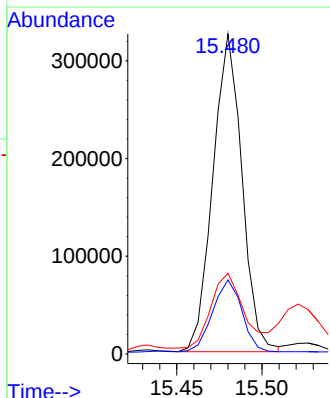
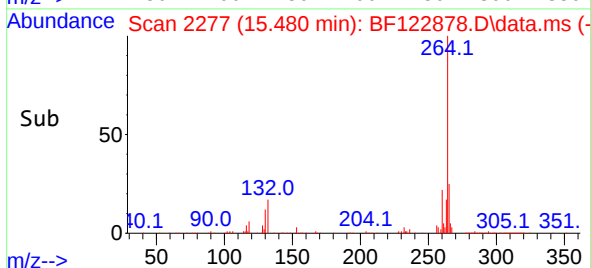
Tgt Ion:228 Resp: 3757216
Ion Ratio Lower Upper
228 100
226 32.4 24.6 36.8
229 23.5 15.8 23.6



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.480 min Scan# 2277
Delta R.T. 0.041 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



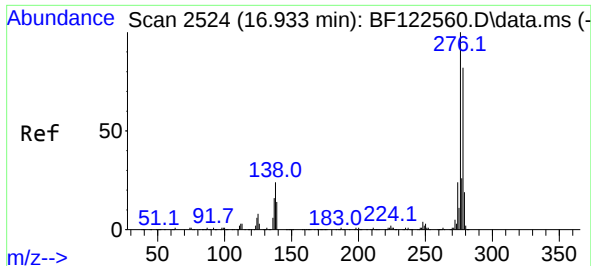
Tgt Ion:264 Resp: 385790
Ion Ratio Lower Upper
264 100
260 23.2 18.6 28.0
265 25.3 17.0 25.6



Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)

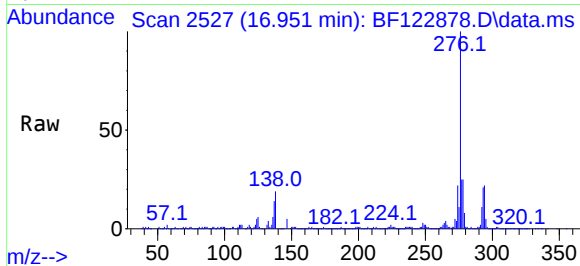
Manual Integrations
APPROVED

mohammad
12/31/2020 10:45:00 AM



#87
Indeno(1,2,3-cd)pyrene
Concen: 41.91 ng
RT: 16.951 min Scan# 2527
Delta R.T. 0.059 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

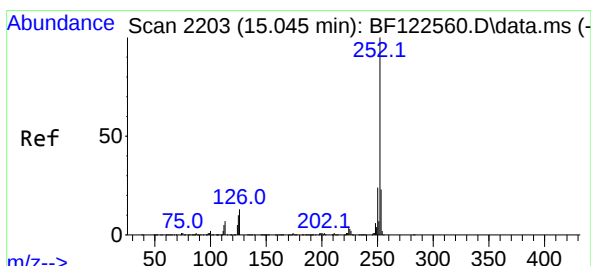
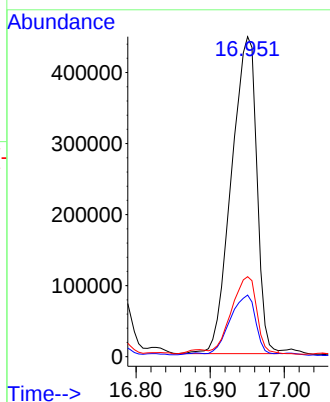
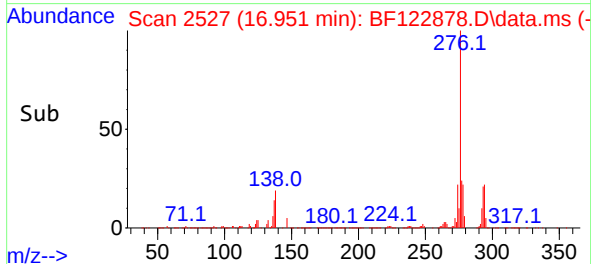
Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)



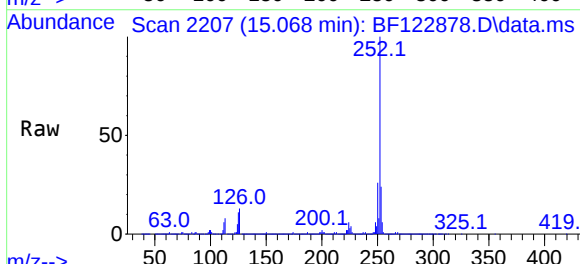
Tgt Ion:276 Resp: 1061420
Ion Ratio Lower Upper
276 100
138 18.5 18.7 28.1#
277 24.5 20.2 30.4

Manual Integrations
APPROVED

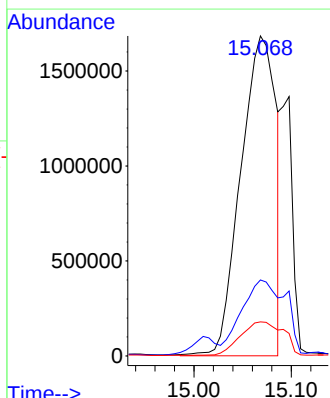
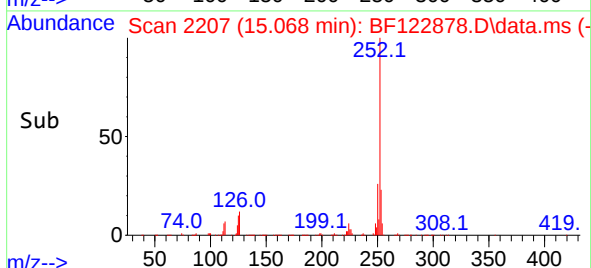
mohammad
12/31/2020 10:45:00 AM

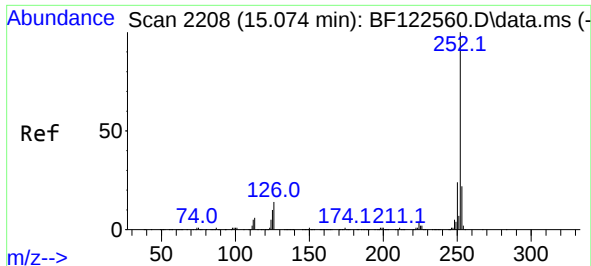


#88
Benzo(b)fluoranthene
Concen: 155.34 ng m
RT: 15.068 min Scan# 2207
Delta R.T. 0.047 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54



Tgt Ion:252 Resp: 4204822
Ion Ratio Lower Upper
252 100
253 23.7 18.3 27.5
125 10.6 8.1 12.1





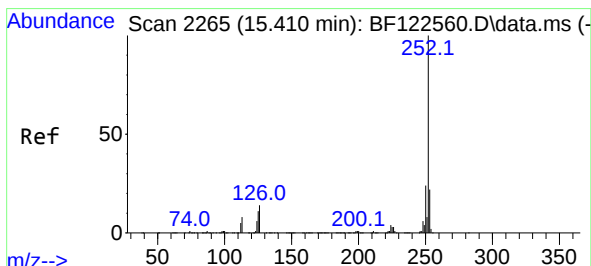
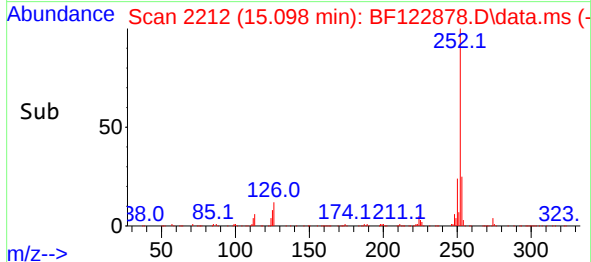
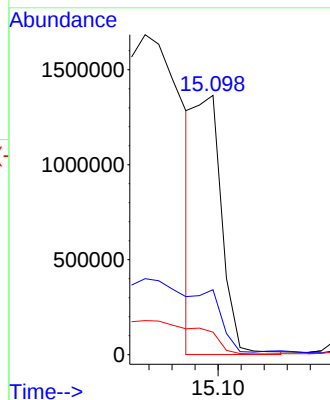
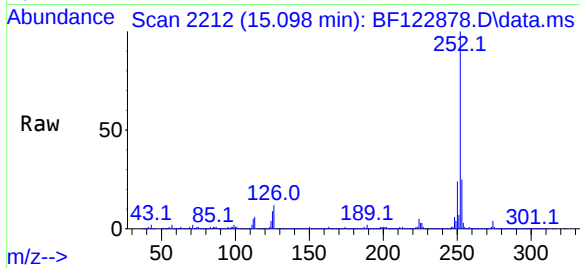
#89
Benzo(k)fluoranthene
Concen: 45.09 ng m
RT: 15.098 min Scan# 2212
Delta R.T. 0.047 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion:252 Resp: 1115923
Ion Ratio Lower Upper
252 100
253 25.1 17.8 26.8
125 8.7 8.4 12.6

Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)

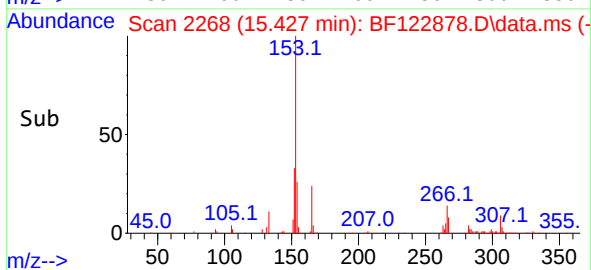
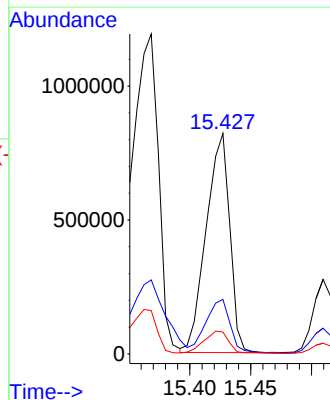
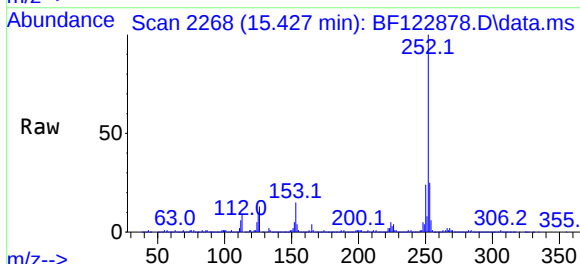
Manual Integrations
APPROVED

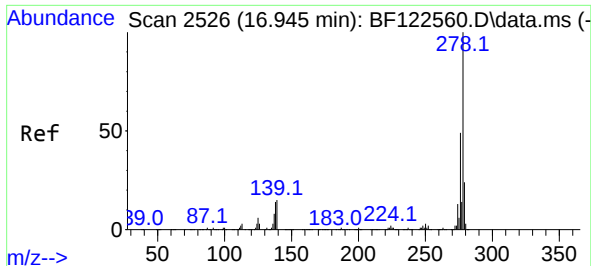
mohammad
12/31/2020 10:45:00 AM



#90
Benzo(a)pyrene
Concen: 46.49 ng
RT: 15.427 min Scan# 2268
Delta R.T. 0.047 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion:252 Resp: 1100966
Ion Ratio Lower Upper
252 100
253 24.7 17.5 26.3
125 10.0 8.6 12.8





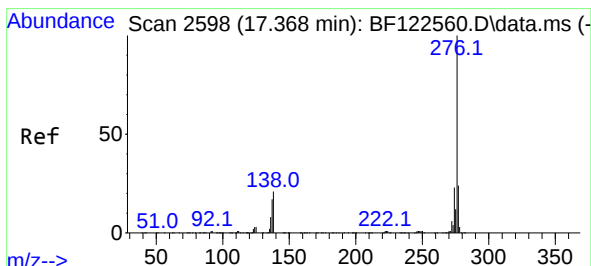
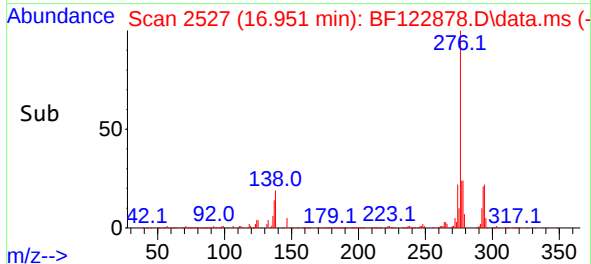
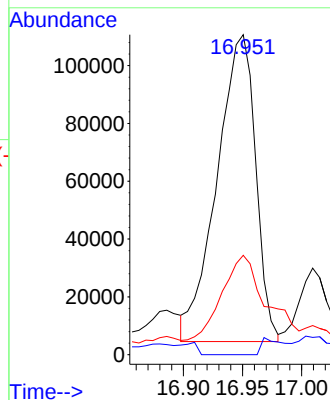
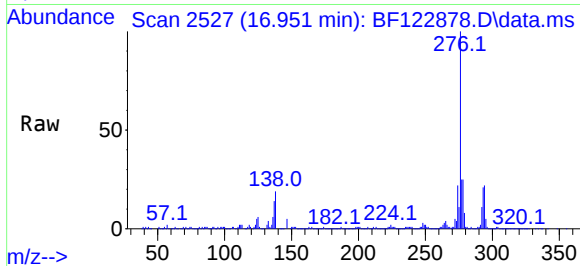
#91
Dibenzo(a,h)anthracene
Concen: 11.66 ng m
RT: 16.951 min Scan# 2527
Delta R.T. 0.047 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion:278 Resp: 241710
Ion Ratio Lower Upper
278 100
139 0.0 12.0 18.0#
279 31.1 19.4 29.2#

Instrument :
BNA_F
ClientSampleId :
SAMPLE-3(474+26)

Manual Integrations
APPROVED

mohammad
12/31/2020 10:45:00 AM



#92
Benzo(g,h,i)perylene
Concen: 45.36 ng
RT: 17.398 min Scan# 2603
Delta R.T. 0.070 min
Lab File: BF122878.D
Acq: 30 Dec 2020 14:54

Tgt Ion:276 Resp: 909951
Ion Ratio Lower Upper
276 100
277 24.5 19.3 28.9
138 19.6 16.6 24.8

