

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050719\
 Data File : BM020184.D
 Acq On : 08 May 2019 02:47
 Operator : JU/SJ
 Sample : K2704-02 2X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 SB-2(24-27)

Manual Integrations
 APPROVED

Sohil
 5/9/2019 6:44:35 PM

Quant Time: May 08 13:48:13 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 01 03:58:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	157826	20.00	ng	0.00
21) Naphthalene-d8	10.59	136	581383	20.00	ng	0.00
39) Acenaphthene-d10	14.44	164	372744	20.00	ng	0.00
64) Phenanthrene-d10	17.19	188	874951	20.00	ng	0.01
76) Chrysene-d12	21.39	240	1084414	20.00	ng	0.02
87) Perylene-d12	23.70	264	1235267	20.00	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.37	112	537927	55.71	ng	0.00
7) Phenol-d6	6.96	99	752050	57.01	ng	0.01
23) Nitrobenzene-d5	8.96	82	539645	36.65	ng	0.00
42) 2,4,6-Tribromophenol	15.93	330	335170	57.93	ng	0.01
45) 2-Fluorobiphenyl	13.05	172	1046468	34.54	ng	0.00
79) Terphenyl-d14	19.82	244	1972036	31.72	ng	0.00
Target Compounds						
31) Naphthalene	10.63	128	144358	4.785	ng	Qvalue # 86
37) 2-Methylnaphthalene	12.25	142	667609	30.353	ng	98
38) 1-Methylnaphthalene	12.47	142	470339	21.868	ng	# 97
50) Dimethylphthalate	13.89	163	83415	2.633	ng	# 86
52) Acenaphthene	14.50	154	1111620	49.447	ng	98
58) Fluorene	15.49	166	1442210	46.309	ng	97
71) Phenanthrene	17.24	178	15919398	329.608	ng	96
72) Anthracene	17.33	178	6948636	143.896	ng	99
73) Carbazole	17.60	167	263008	6.036	ng	# 69
75) Fluoranthene	19.26	202	21772377m	356.286	ng	
78) Pyrene	19.63	202	21265022	292.076	ng	# 80
81) Benzo(a)anthracene	21.37	228	14638254	192.482	ng	# 83
83) Chrysene	21.43	228	12432557	168.565	ng	# 92
86) Indeno(1,2,3-cd)pyrene	26.06	276	4058816m	46.265	ng	
88) Benzo(b)fluoranthene	23.01	252	13776033	168.885	ng	# 96
89) Benzo(k)fluoranthene	23.04	252	5064124m	68.059	ng	
90) Benzo(a)pyrene	23.61	252	9998416	134.945	ng	# 96
91) Dibenzo(a,h)anthracene	26.06	278	1246924	16.183	ng	# 87
92) Benzo(a,h,i)perylene	26.79	276	3415061m	46.683	ng	

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

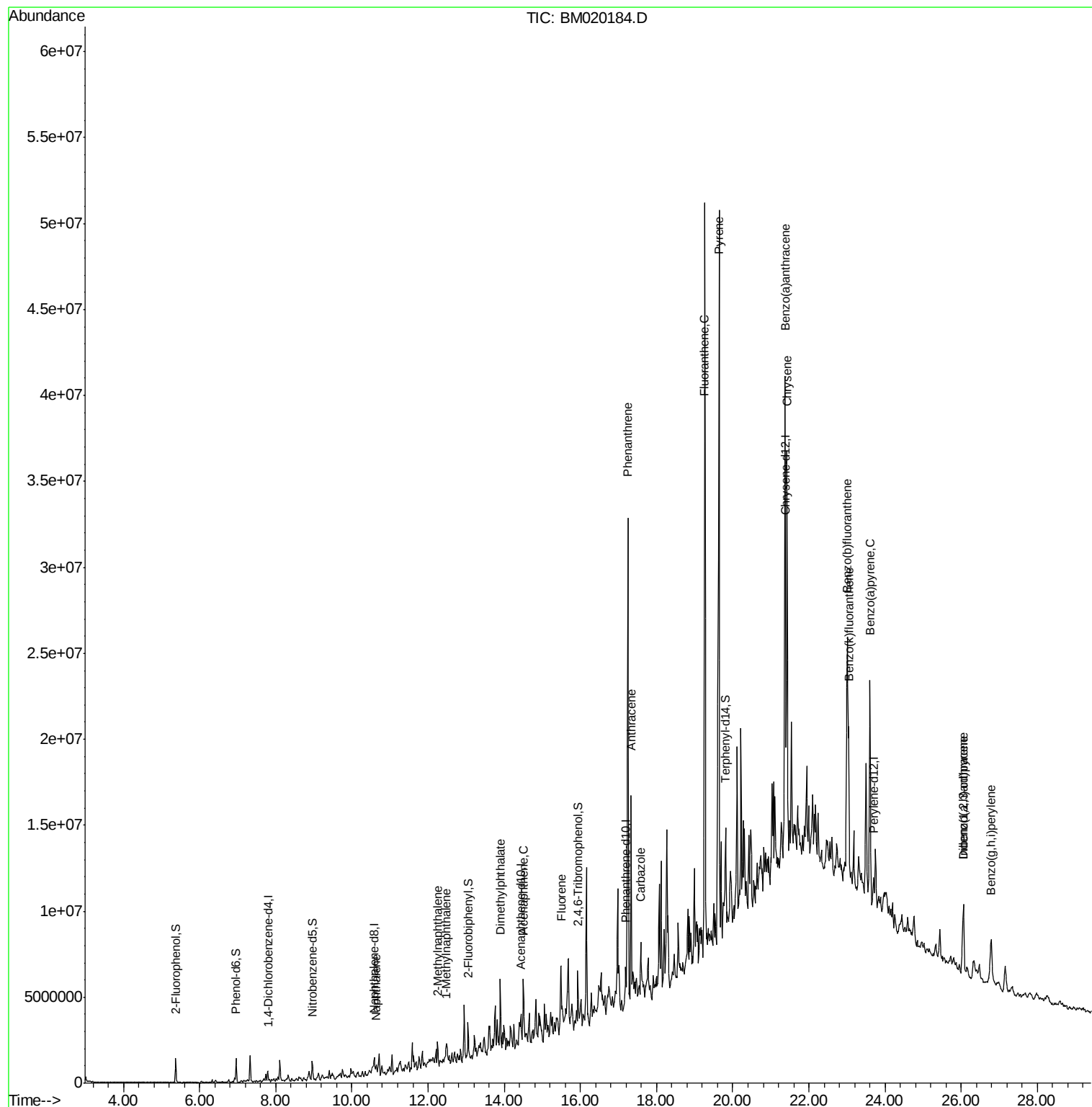
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM050719\
Data File : BM020184.D
Acq On : 08 May 2019 02:47
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Misc :
ALS Vial : 18 Sample Multiplier: 1

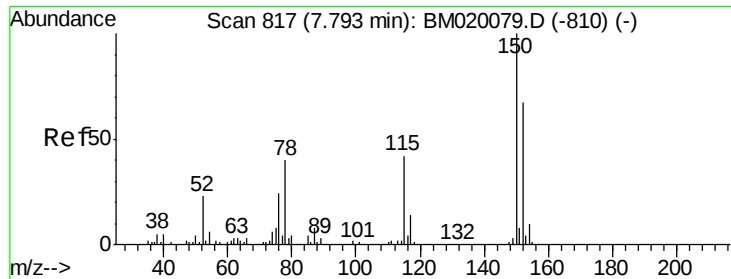
Instrument :
BNA_M
ClientSampleId :
SB-2(24-27)

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM043019.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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#1

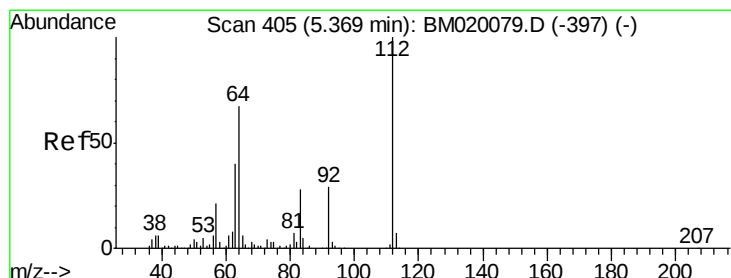
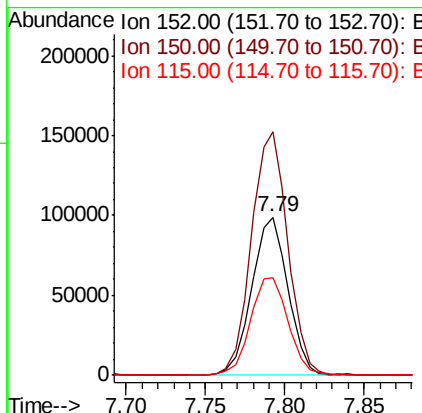
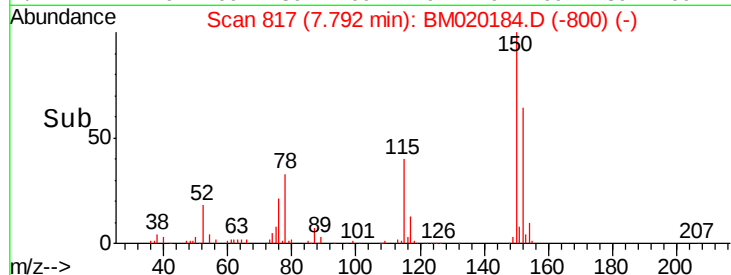
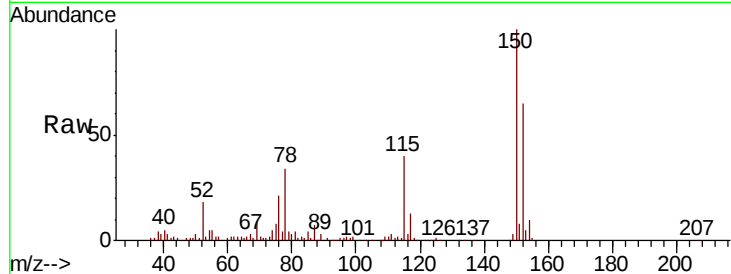
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.79 min Scan# 817
Delta R.T. -0.00 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Instrument :
BNA_M
ClientSampleId :
SB-2(24-27)

Tot Ion	Ratio	Lower	Upper
152	100		
150	153.7	119.8	179.8
115	61.4	50.8	76.2

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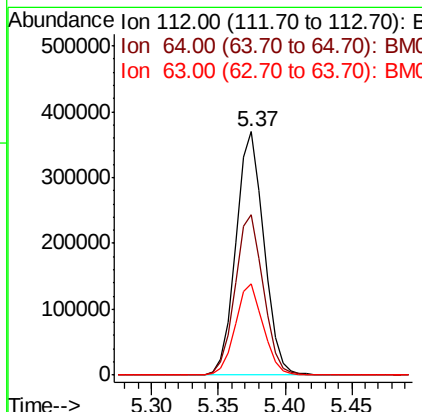
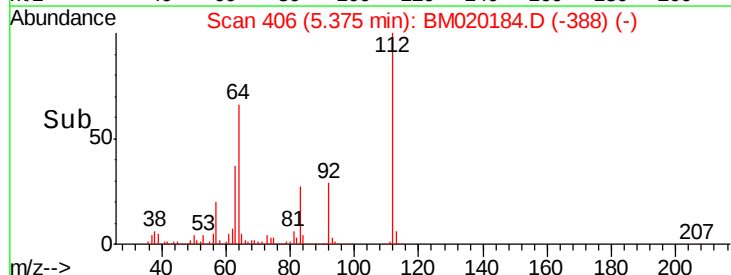
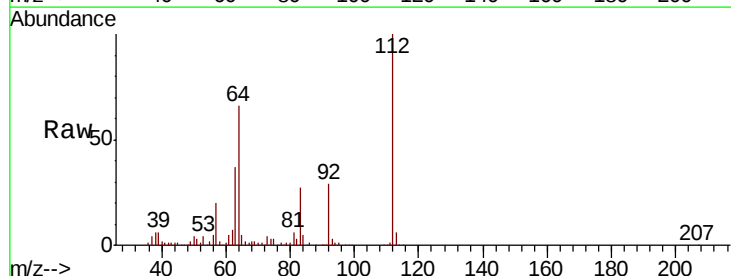
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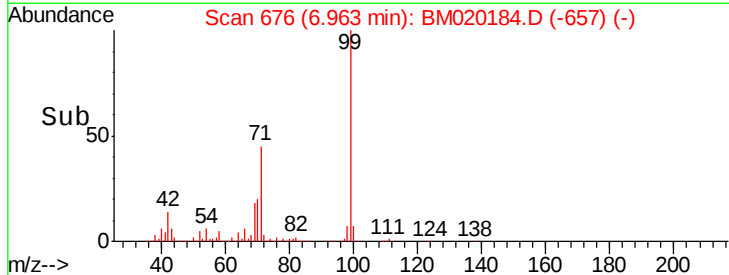
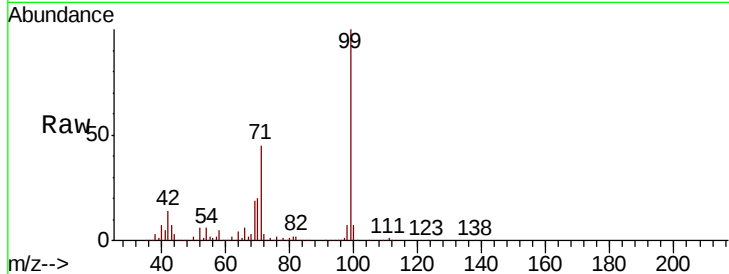
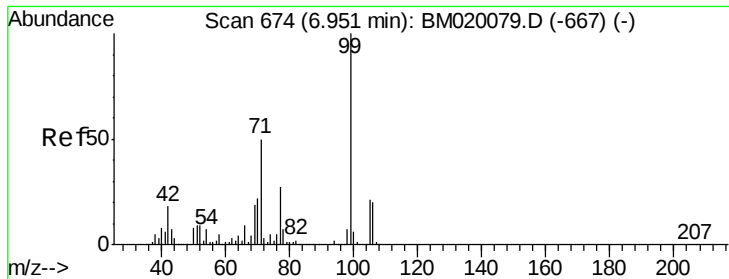


#5

2-Fluorophenol
Concen: 55.713 ng
RT: 5.37 min Scan# 406
Delta R.T. 0.01 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Tgt Ion	Ratio	Lower	Upper
112	100		
64	65.7	53.8	80.6
63	37.2	32.3	48.5





#7

Phenol-d6

Concen: 57.014 ng

RT: 6.96 min Scan# 676

Delta R.T. 0.01 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

Tot Ion:	99	Resp:	752050
Ion Ratio	Lower	Upper	
99	100		
42	14.4	14.2	21.2
71	45.4	40.3	60.5

Instrument :

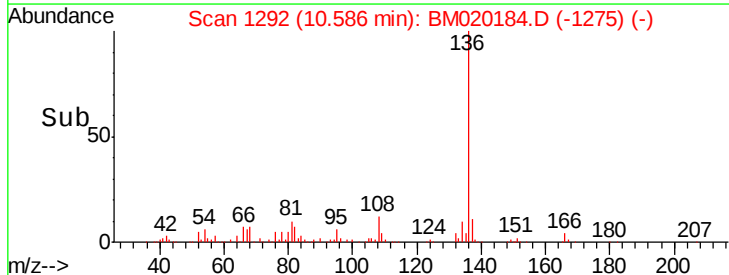
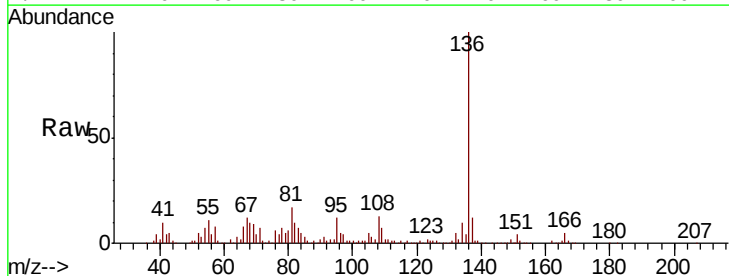
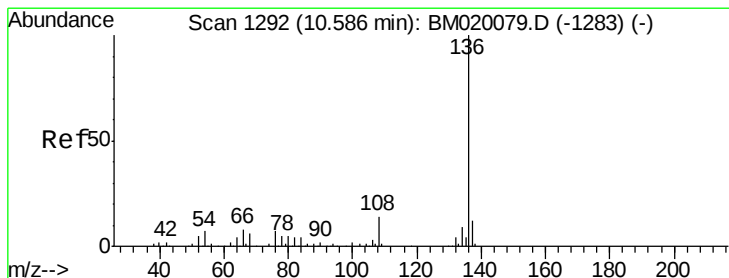
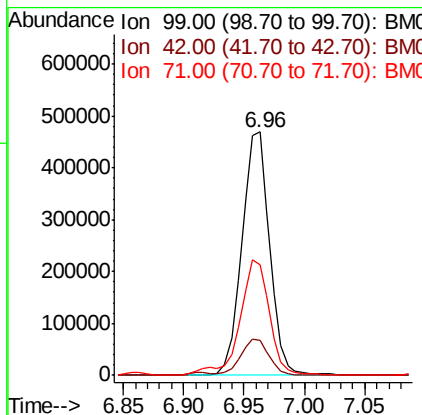
BNA_M

ClientSampleId :

SB-2(24-27)

Manual Integrations
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#21

Naphthalene-d8

Concen: 20.000 ng

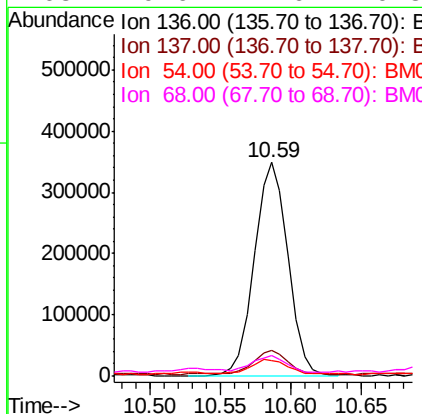
RT: 10.59 min Scan# 1292

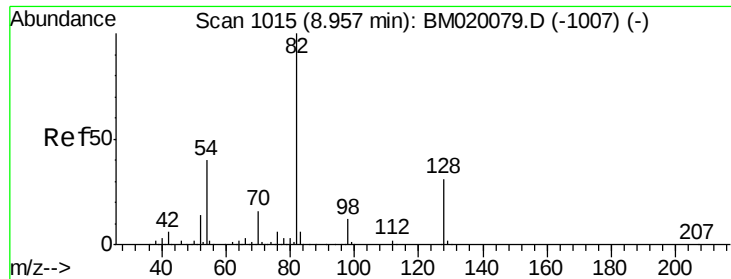
Delta R.T. -0.00 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

Tgt Ion:	136	Resp:	581383
Ion Ratio	Lower	Upper	
136	100		
137	12.2	9.6	14.4
54	7.3	5.5	8.3
68	9.6	4.6	6.8#





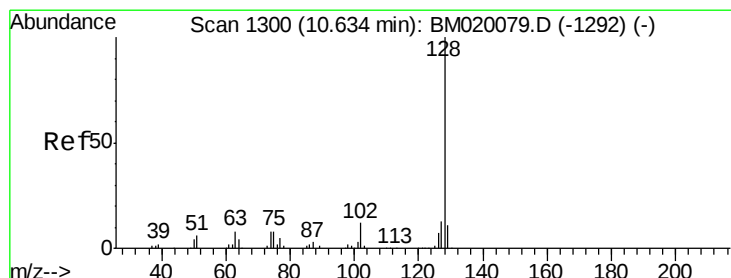
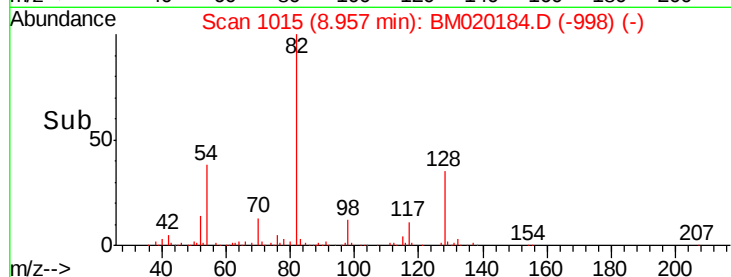
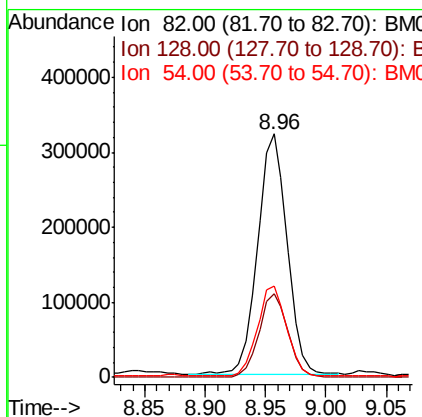
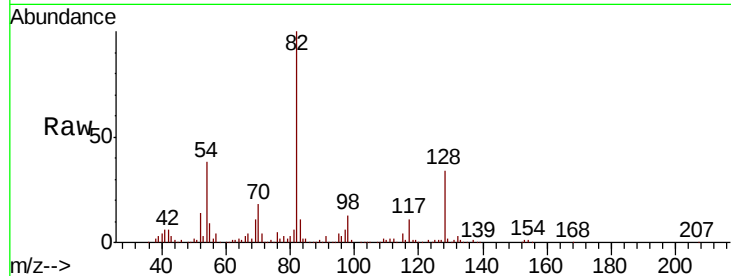
#23
 Nitrobenzene-d5
 Concen: 36.646 ng
 RT: 8.96 min Scan# 1015
 Delta R.T. -0.00 min
 Lab File: BM020184.D
 Acq: 08 May 2019 02:47

Instrument :
 BNA_M
 ClientSampleId :
 SB-2(24-27)

Tot Ion	Ratio	Lower	Upper
82	100		
128	34.3	25.2	37.8
54	37.7	31.9	47.9

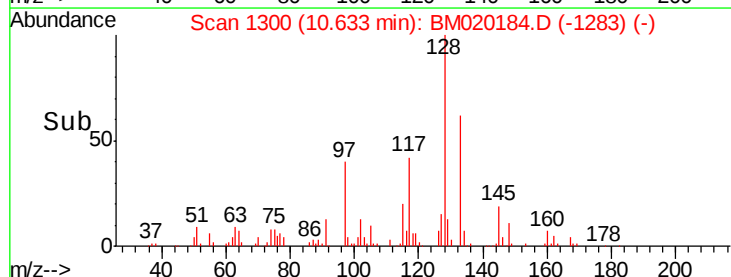
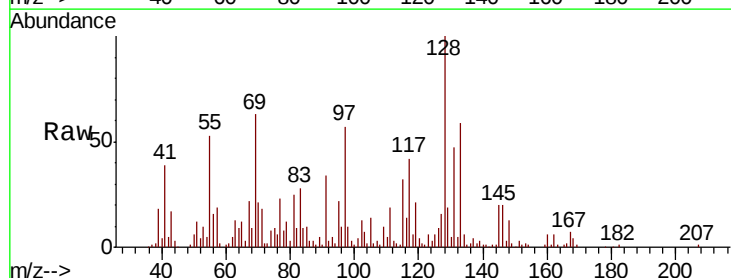
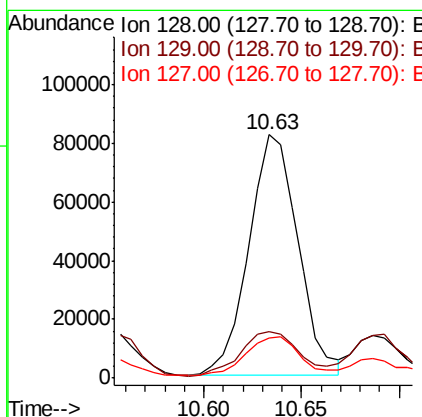
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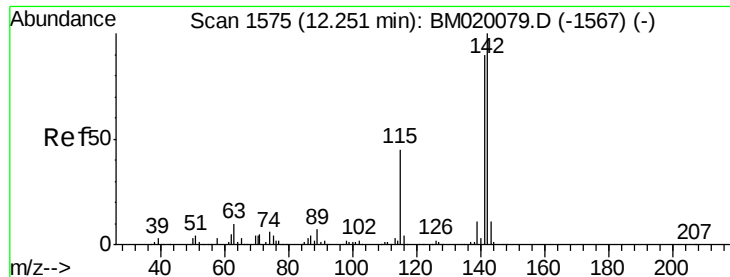
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#31
 Naphthalene
 Concen: 4.785 ng
 RT: 10.63 min Scan# 1300
 Delta R.T. -0.00 min
 Lab File: BM020184.D
 Acq: 08 May 2019 02:47

Tgt Ion	Ratio	Lower	Upper
128	100		
129	19.0	9.0	13.4#
127	16.5	10.4	15.6#





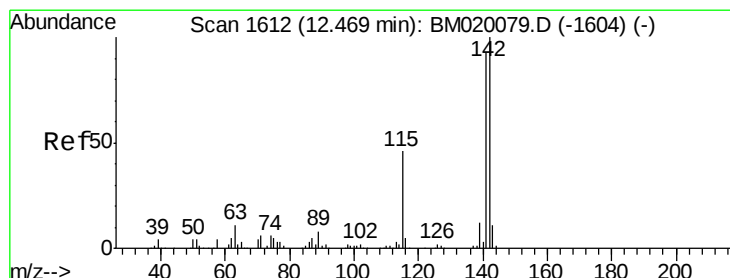
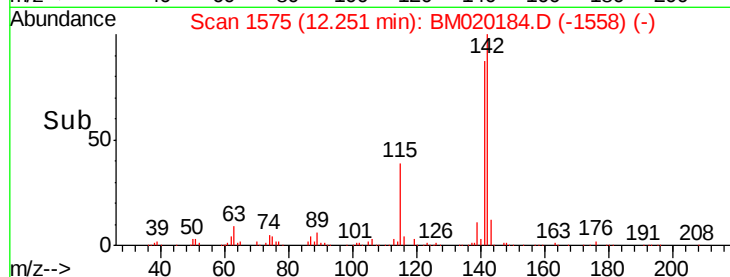
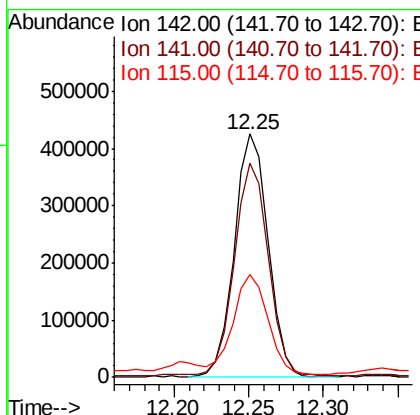
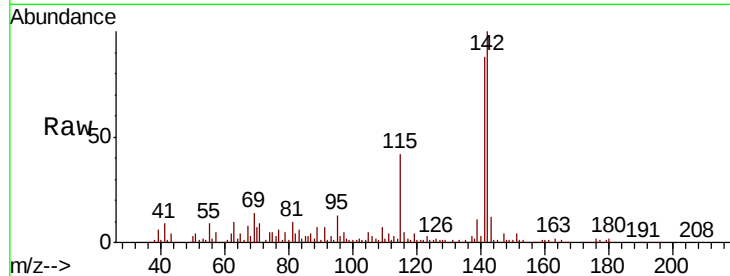
#37
2-Methylnaphthalene
Concen: 30.353 ng
RT: 12.25 min Scan# 1575
Delta R.T. -0.00 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Instrument :
BNA_M
ClientSampleId :
SB-2(24-27)

Tot Ion	Ratio	Lower	Upper
142	100		
141	87.8	71.6	107.4
115	42.2	35.8	53.6

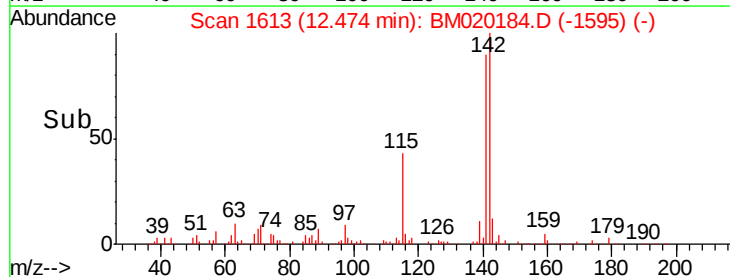
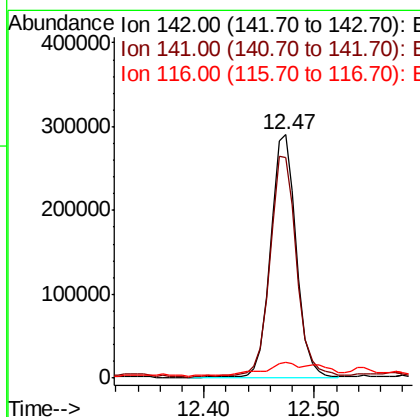
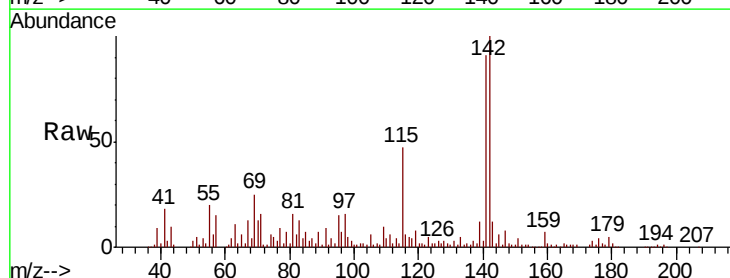
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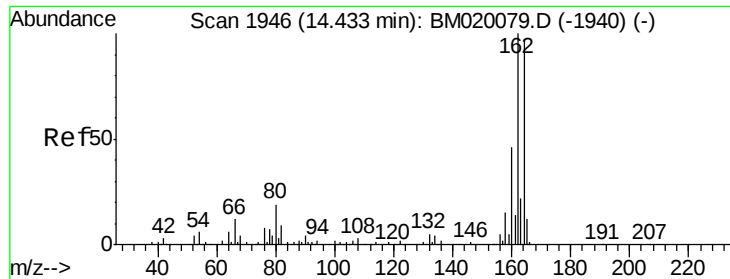
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#38
1-Methylnaphthalene
Concen: 21.868 ng
RT: 12.47 min Scan# 1613
Delta R.T. 0.01 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Tgt Ion	Ratio	Lower	Upper
142	100		
141	90.7	74.8	112.2
116	6.3	3.9	5.9#





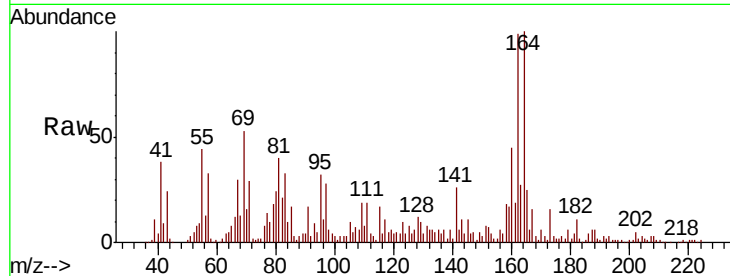
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.44 min Scan# 1947
Delta R.T. 0.01 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Instrument :
BNA_M
ClientSampleId :
SB-2(24-27)

Tot Ion	Ratio	Lower	Upper
164	100		
162	98.9	82.2	123.2
160	44.6	37.6	56.4

Manual Integrations
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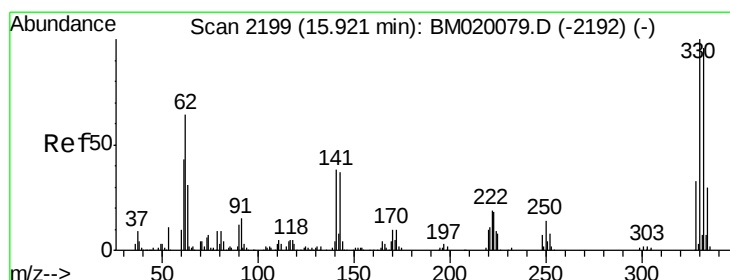
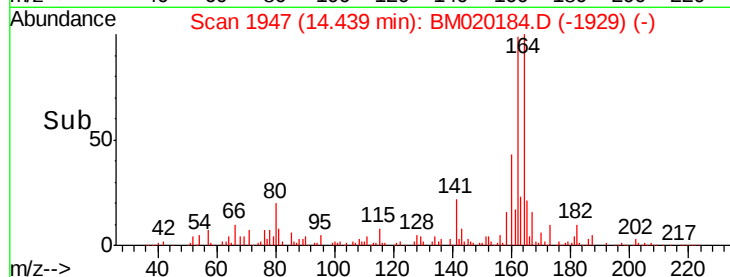
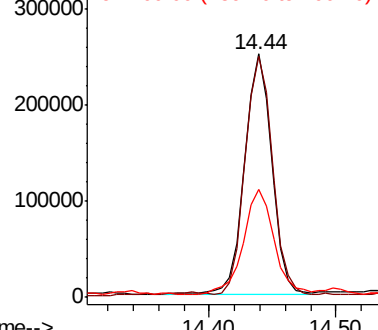


Abundance

Ion 164.00 (163.70 to 164.70): E

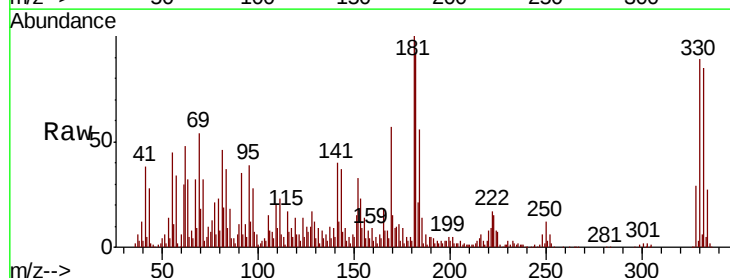
Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#42
2,4,6-Tribromophenol
Concen: 57.931 ng
RT: 15.93 min Scan# 2201
Delta R.T. 0.01 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Tgt Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.8	115.2
141	34.9	29.2	43.8

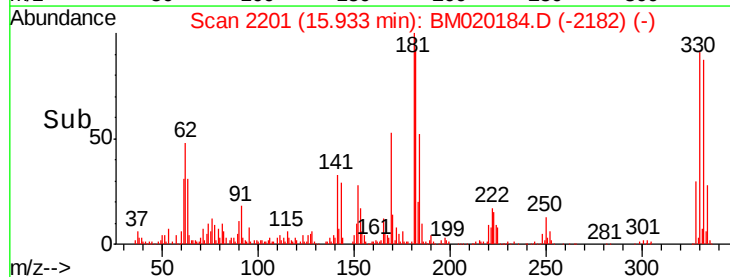
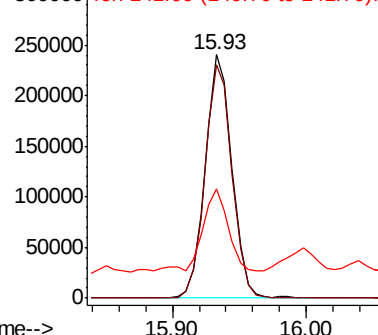


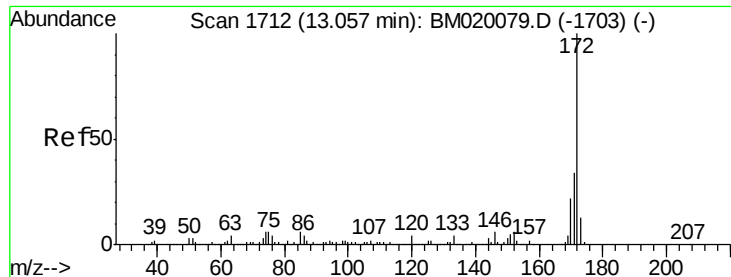
Abundance

Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





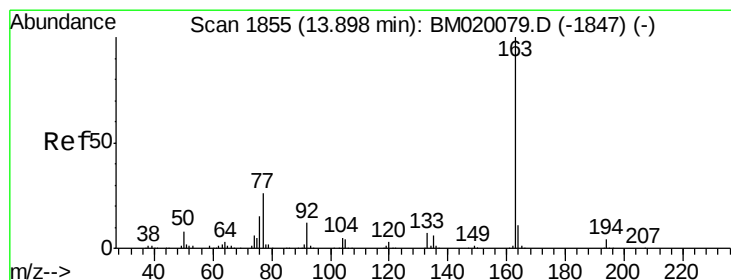
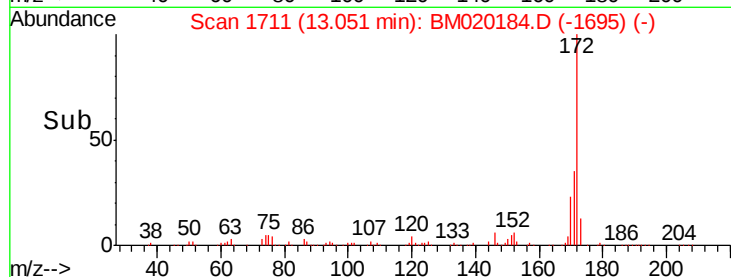
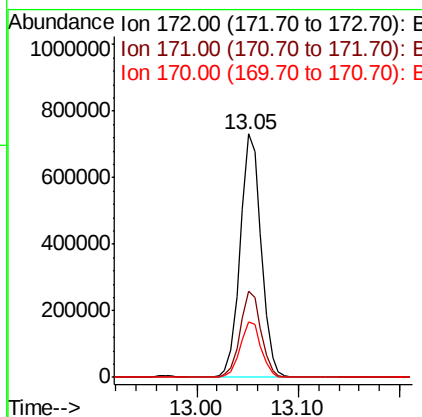
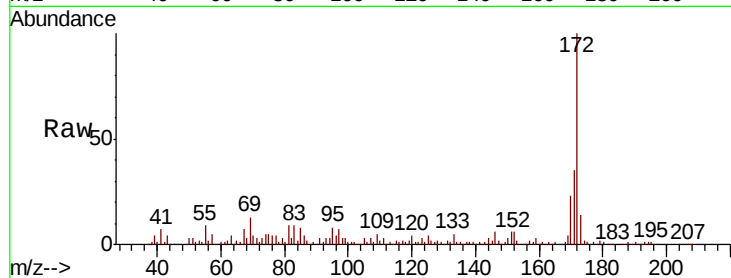
#45
2-Fluorobiphenyl
Concen: 34.542 ng
RT: 13.05 min Scan# 1711
Delta R.T. -0.01 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Instrument :
BNA_M
ClientSampled :
SB-2(24-27)

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.3	40.9
170	22.7	17.9	26.9

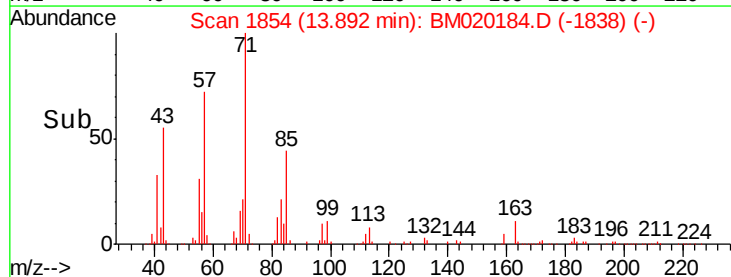
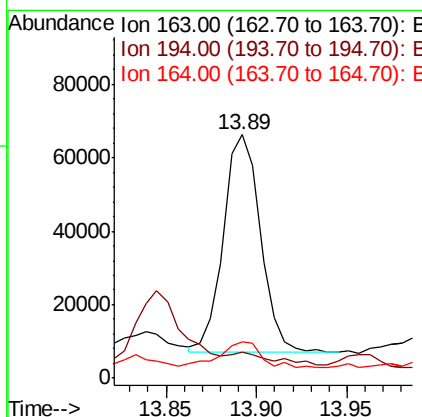
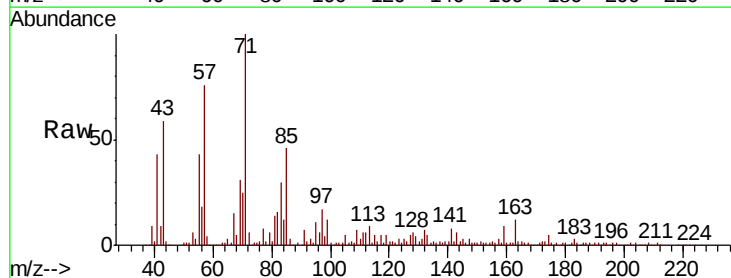
Manual Integrations
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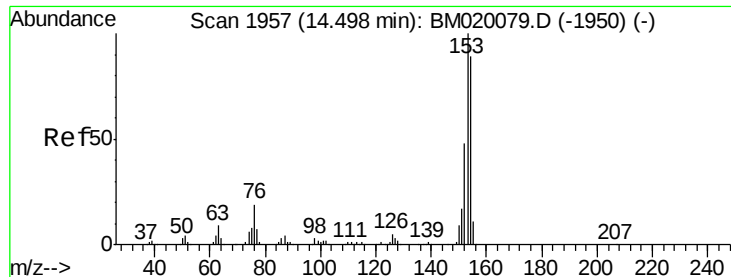
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#50
Dimethylphthalate
Concen: 2.633 ng
RT: 13.89 min Scan# 1854
Delta R.T. -0.01 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Tgt Ion	Ratio	Lower	Upper
163	100		
194	10.9	3.6	5.4#
164	15.1	8.4	12.6#





#52

Acenaphthene

Concen: 49.447 ng

RT: 14.50 min Scan# 1958

Delta R.T. 0.01 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

Instrument :

BNA_M

ClientSampled :

SB-2(24-27)

Tot Ion:154 Resp: 1111620

Ion Ratio Lower Upper

154 100

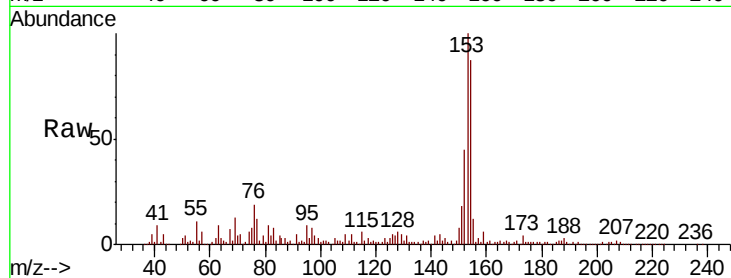
153 114.9 90.2 135.2

152 52.1 43.0 64.4

Manual Integrations
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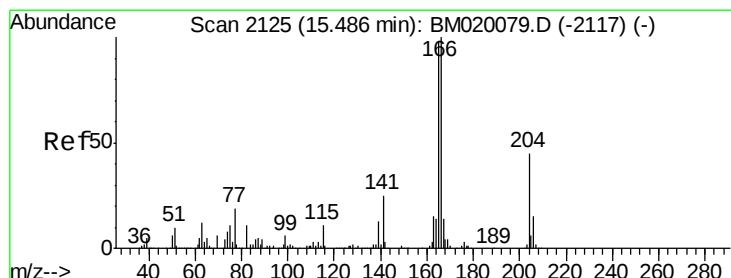
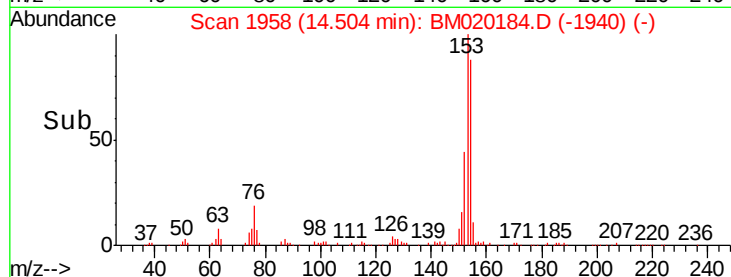
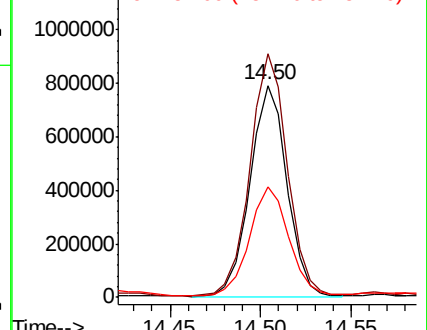


Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#58

Fluorene

Concen: 46.309 ng

RT: 15.49 min Scan# 2126

Delta R.T. 0.01 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

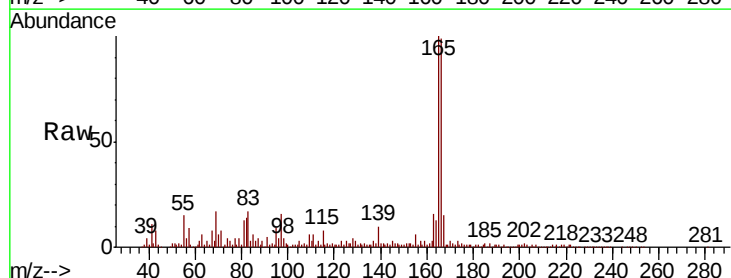
Tgt Ion:166 Resp: 1442210

Ion Ratio Lower Upper

166 100

165 100.6 78.2 117.2

167 14.8 11.0 16.4

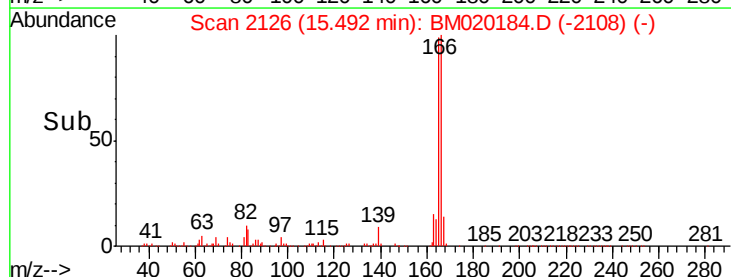
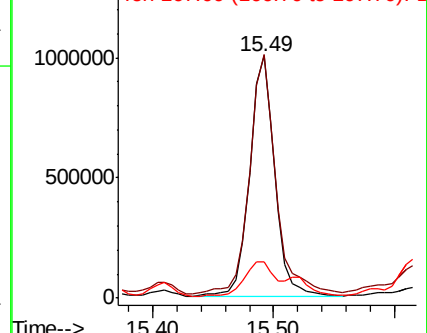


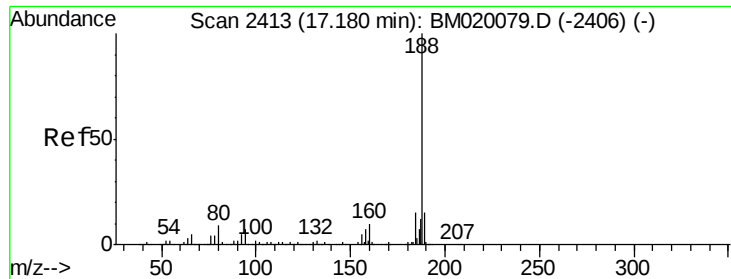
Abundance

Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 17.19 min Scan# 2415

Delta R.T. 0.01 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

Instrument :

BNA_M

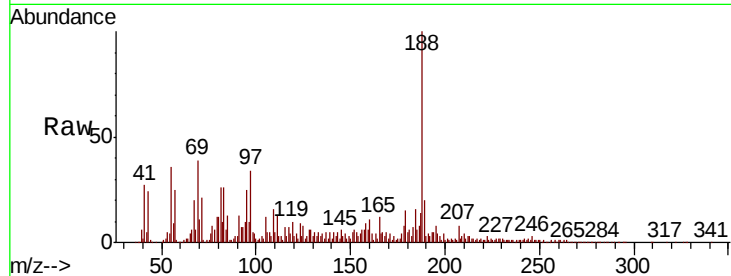
ClientSampleId :

SB-2(24-27)

Tot Ion:	188	Resp:	874951
Ion Ratio	Lower	Upper	
188	100		
94	10.5	5.8	8.6#
80	11.9	7.4	11.2#

Manual Integrations
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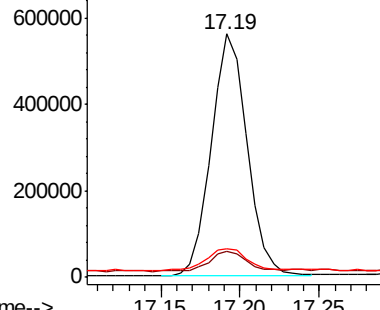
Sohil
5/9/2019 6:44:35 PM



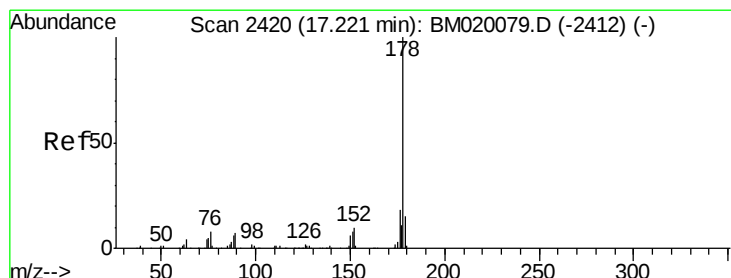
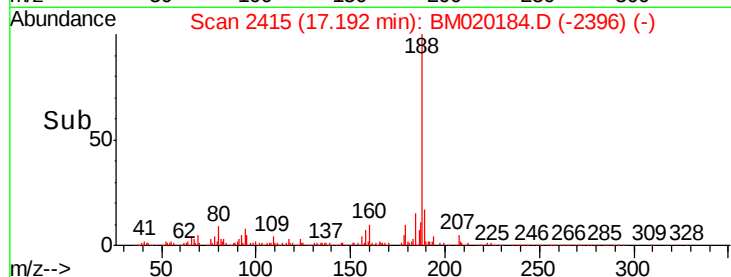
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BM0

Ion 80.00 (79.70 to 80.70): BM0



Time-->



#71

Phenanthrene

Concen: 329.608 ng

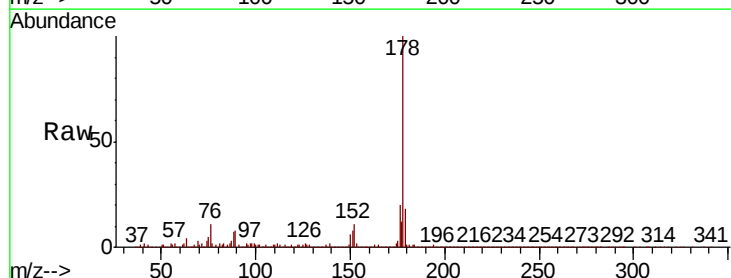
RT: 17.24 min Scan# 2423

Delta R.T. 0.02 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

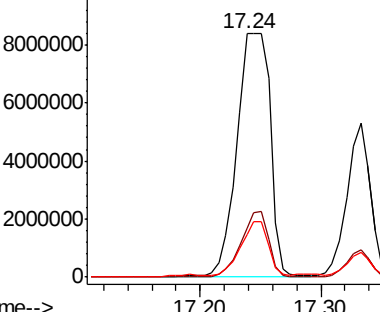
Tgt Ion:	178	Resp:	15919398
Ion Ratio	Lower	Upper	
178	100		
176	20.0	14.6	21.8
179	17.5	12.4	18.6



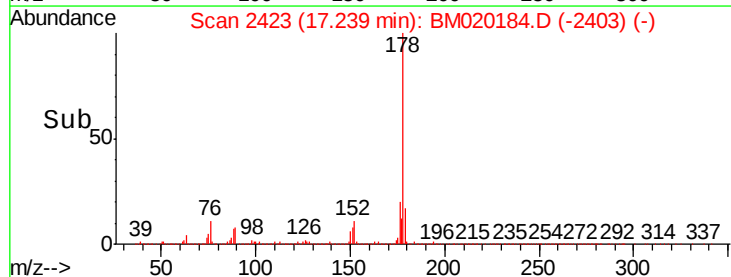
Abundance Ion 178.00 (177.70 to 178.70): E

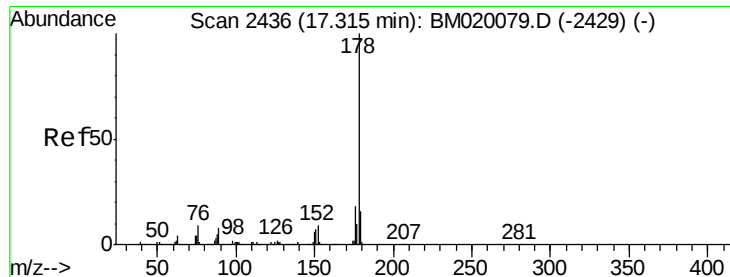
Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->





#72

Anthracene

Concen: 143.896 ng

RT: 17.33 min Scan# 2439

Delta R.T. 0.02 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

Instrument :

BNA_M

ClientSampleId :

SB-2(24-27)

Tot Ion:178 Resp: 6948636

Ion Ratio Lower Upper

178 100

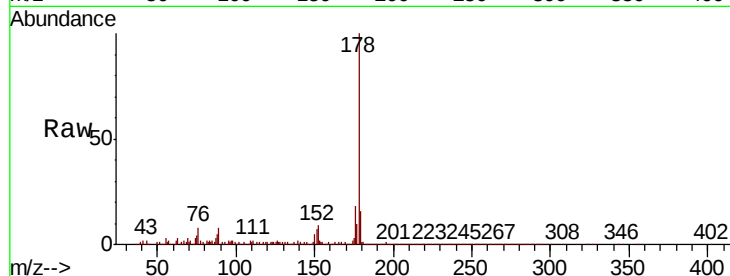
176 18.0 14.6 22.0

179 16.1 12.4 18.6

Manual Integrations
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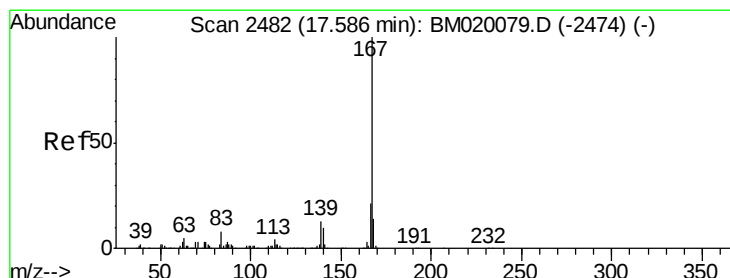
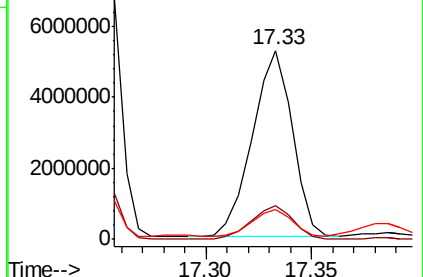
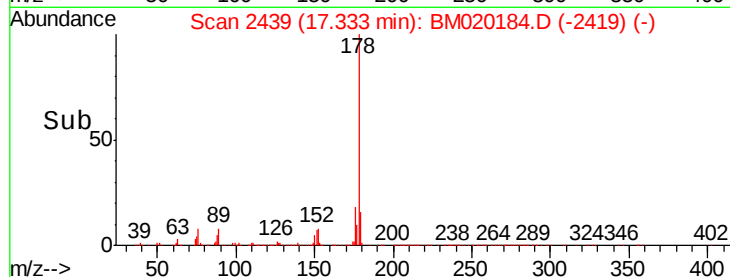
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Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 6.036 ng

RT: 17.60 min Scan# 2484

Delta R.T. 0.01 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

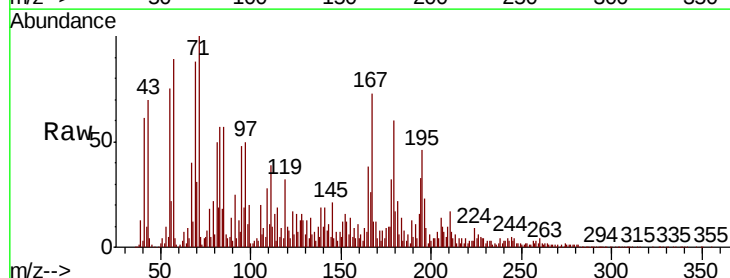
Tgt Ion:167 Resp: 263008

Ion Ratio Lower Upper

167 100

166 35.3 17.0 25.6#

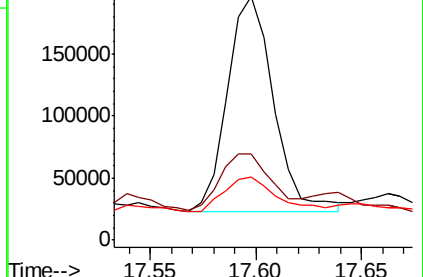
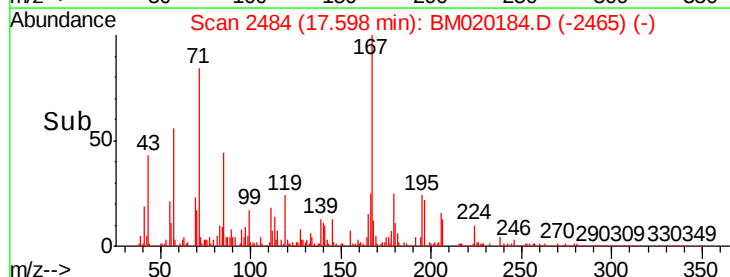
139 26.1 10.6 16.0#

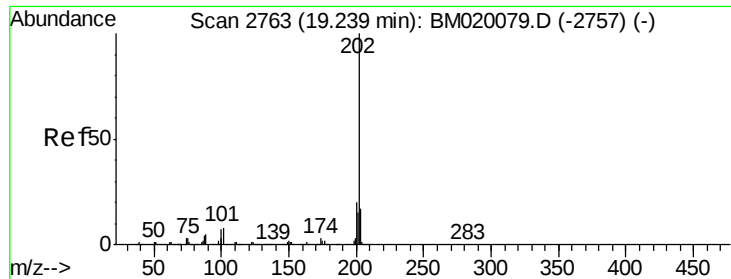


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 356.286 ng/mL

RT: 19.26 min Scan# 2766

Delta R.T. 0.02 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

Instrument :

BNA_M

ClientSampleId :

SB-2(24-27)

Tot Ion:202 Resp:21772377

Ion Ratio Lower Upper

202 100

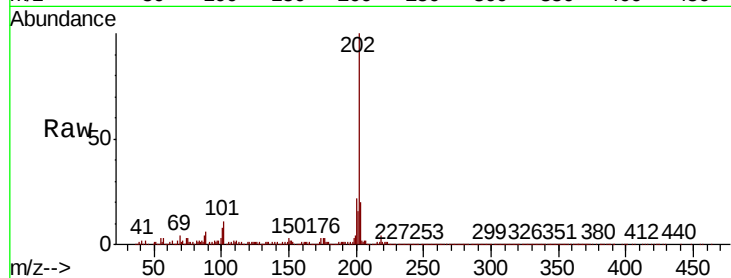
101 10.5 0.0 28.4

203 20.4 0.0 37.4

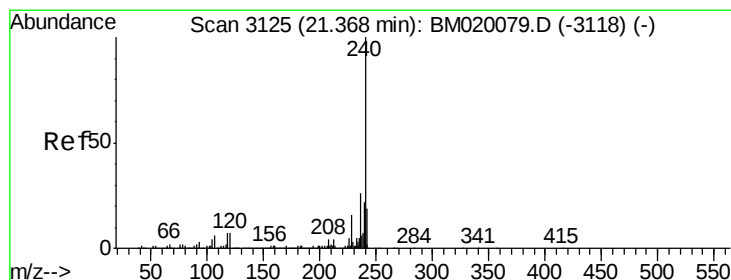
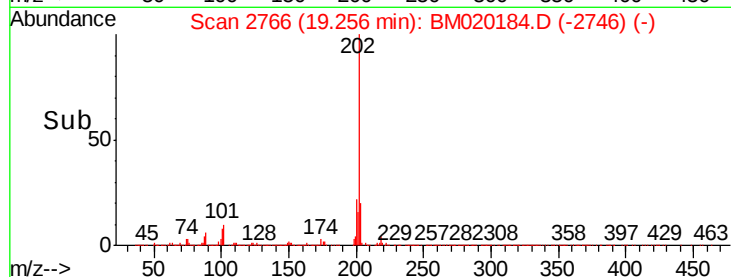
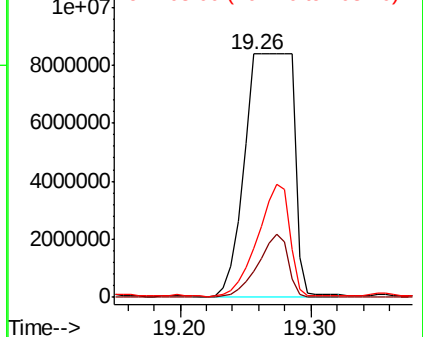
Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 21.39 min Scan# 3129

Delta R.T. 0.02 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

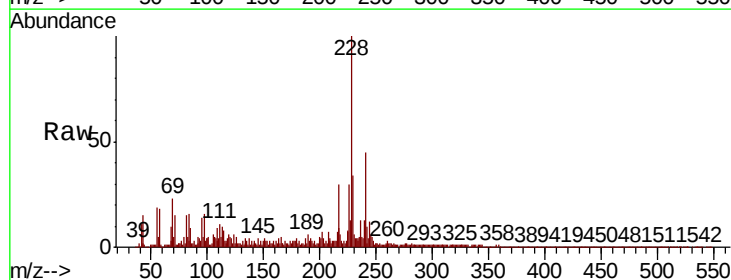
Tgt Ion:240 Resp: 1084414

Ion Ratio Lower Upper

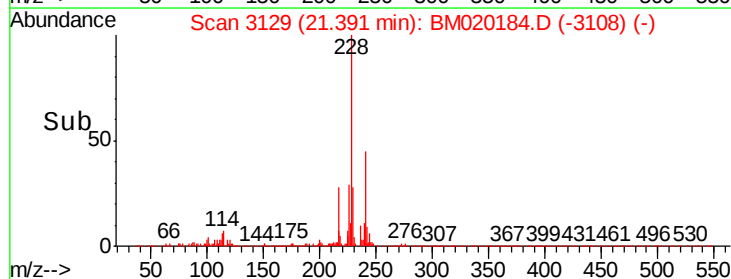
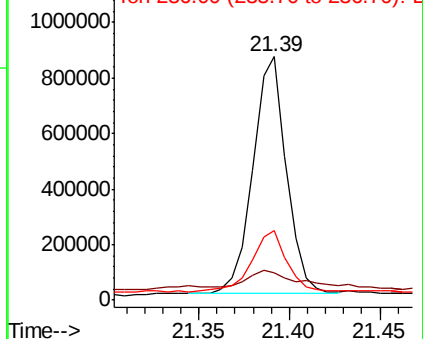
240 100

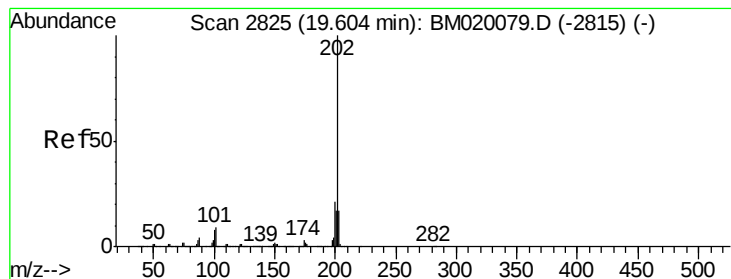
120 11.2 5.6 8.4#

236 28.7 20.9 31.3



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#78

Pvrene

Concen: 292.076 ng

RT: 19.63 min Scan# 2829

Delta R.T. 0.02 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

Instrument :

BNA_M

ClientSampleId :

SB-2(24-27)

Tot Ion:202 Resp:21265022

Ion Ratio Lower Upper

202 100

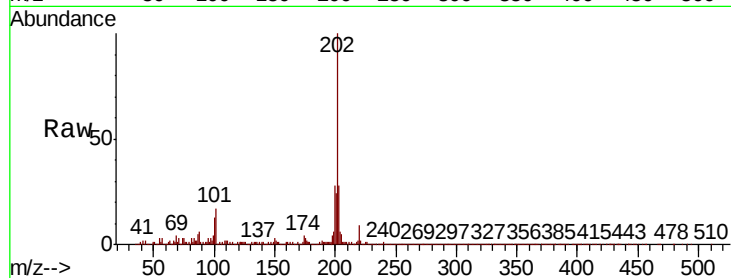
200 28.2 16.5 24.7#

203 28.3 13.9 20.9#

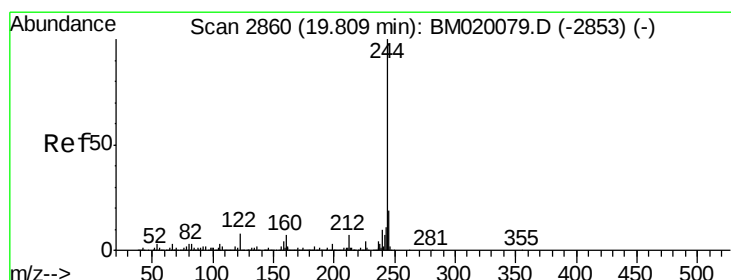
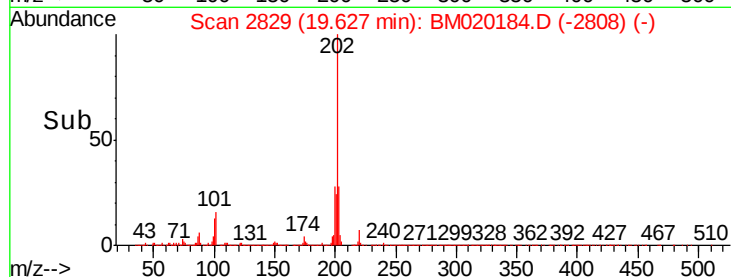
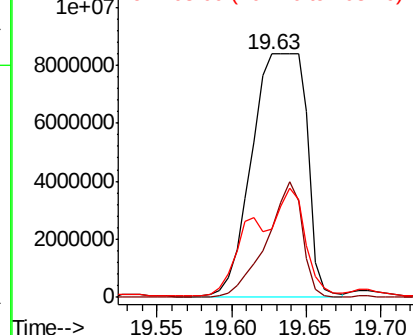
Manual Integrations
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Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 31.719 ng

RT: 19.82 min Scan# 2861

Delta R.T. 0.01 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

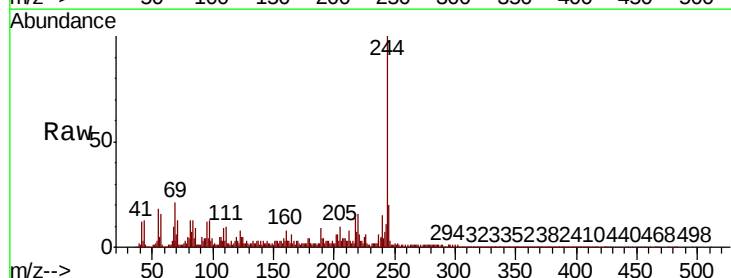
Tgt Ion:244 Resp: 1972036

Ion Ratio Lower Upper

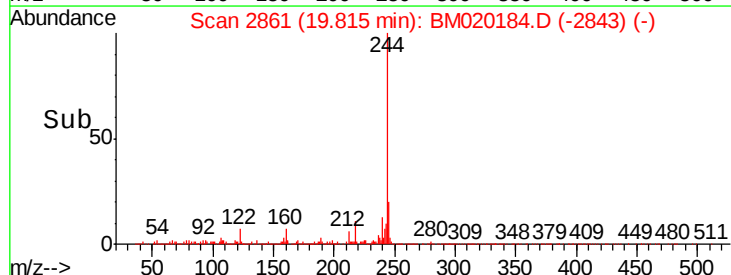
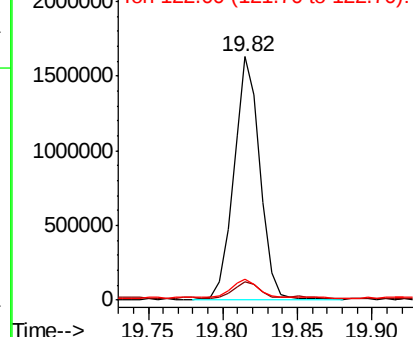
244 100

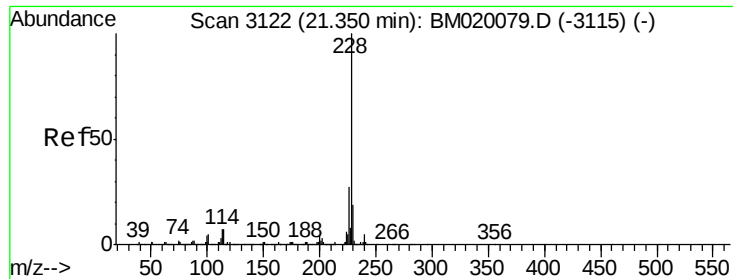
212 7.6 5.7 8.5

122 8.3 6.2 9.2



Abundance Ion 244.00 (243.70 to 244.70): E
Ion 212.00 (211.70 to 212.70): E
Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 192.482 ng

RT: 21.37 min Scan# 3126

Delta R.T. 0.02 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

Instrument :

BNA_M

ClientSampled :

SB-2(24-27)

Tot Ion:228 Resp:14638254

Ion Ratio Lower Upper

228 100

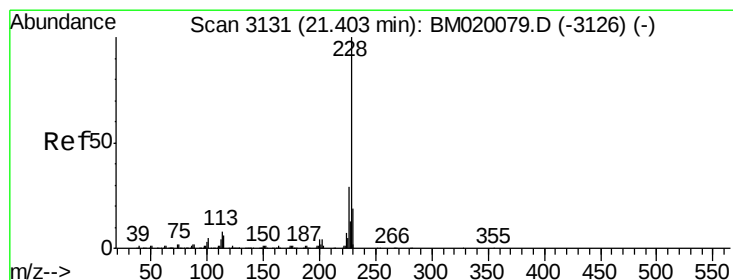
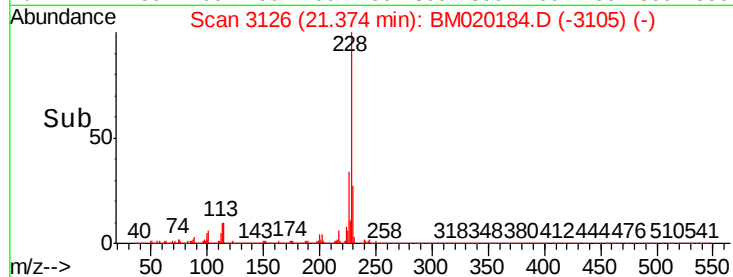
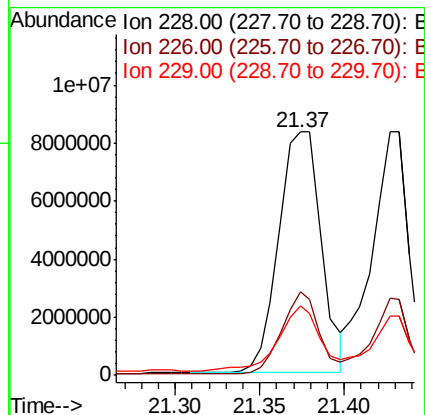
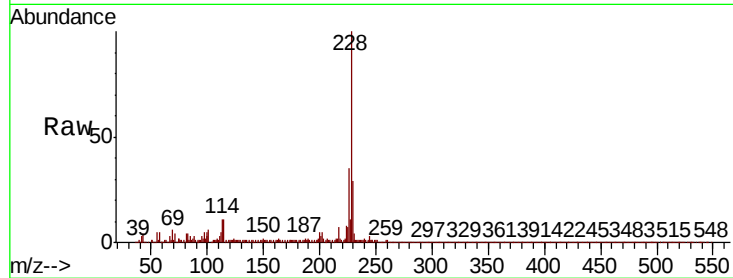
226 34.6 21.3 31.9#

229 28.5 15.5 23.3#

Manual Integrations
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#83

Chrysene

Concen: 168.565 ng

RT: 21.43 min Scan# 3135

Delta R.T. 0.02 min

Lab File: BM020184.D

Acq: 08 May 2019 02:47

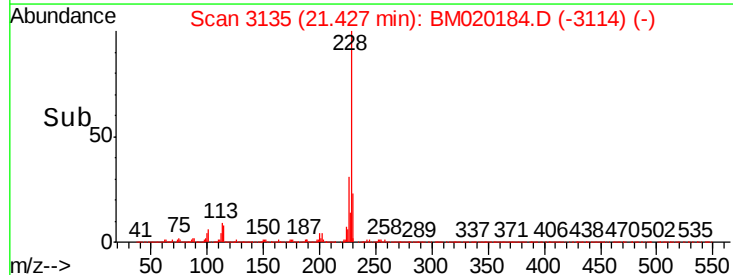
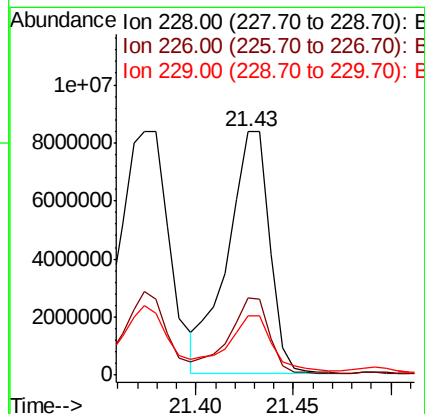
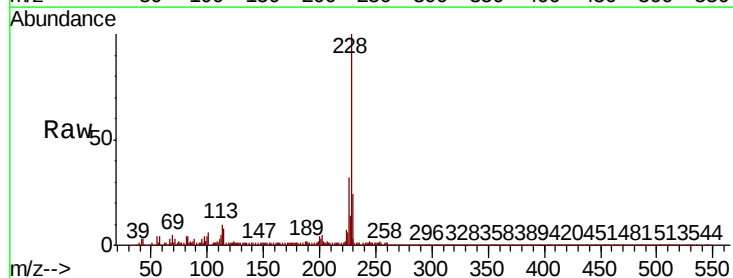
Tgt Ion:228 Resp:12432557

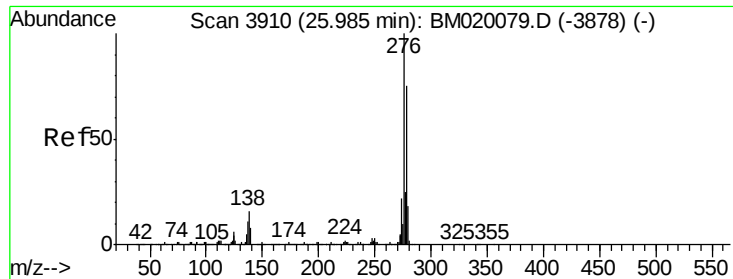
Ion Ratio Lower Upper

228 100

226 31.8 23.0 34.6

229 24.3 15.5 23.3#





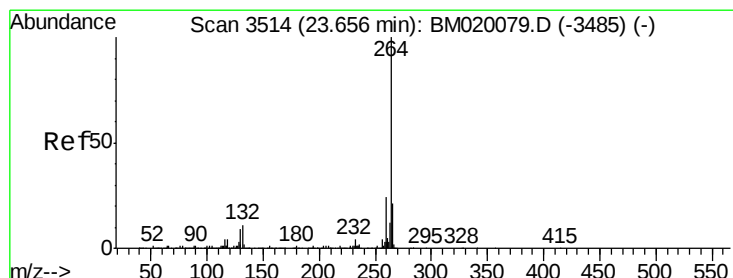
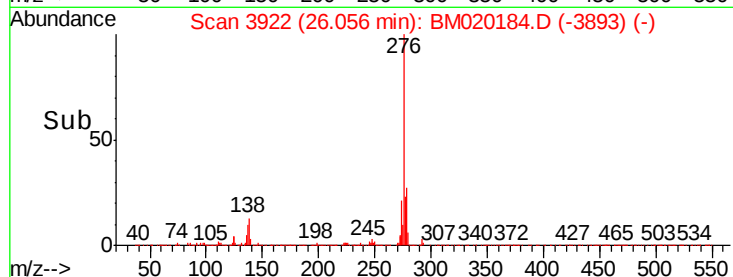
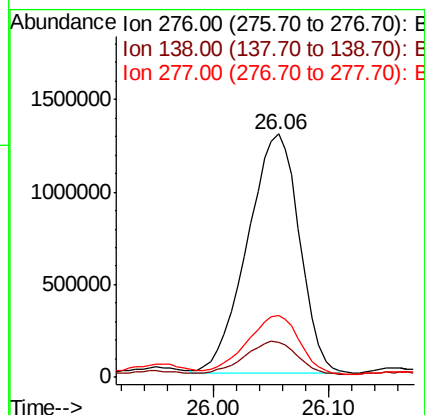
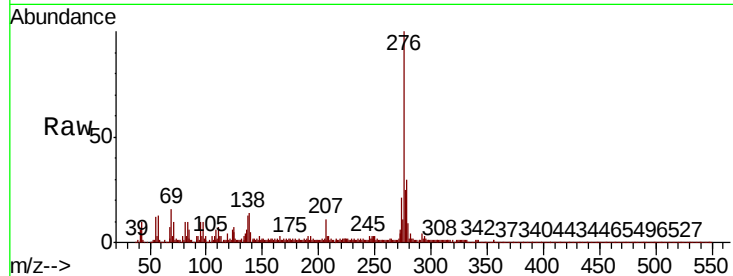
#86
Indeno(1,2,3-cd)pyrene
Concen: 46.265 ng/ml
RT: 26.06 min Scan# 3922
Delta R.T. 0.07 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Instrument :
BNA_M
ClientSampleId :
SB-2(24-27)

Tot Ion	Ratio	Lower	Upper
276	100		
138	12.7	0.0	0.0#
277	21.4	0.0	0.0#

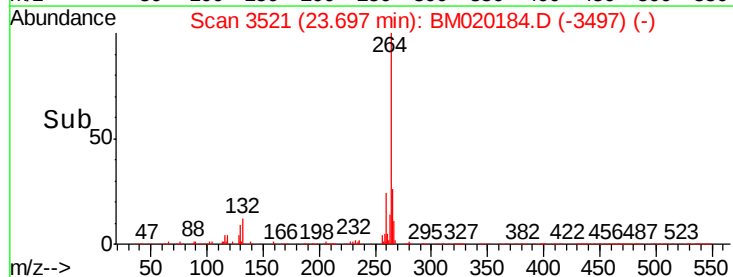
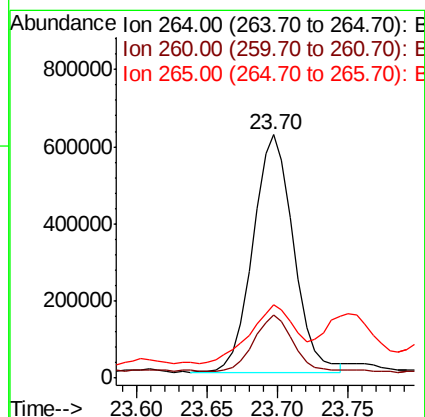
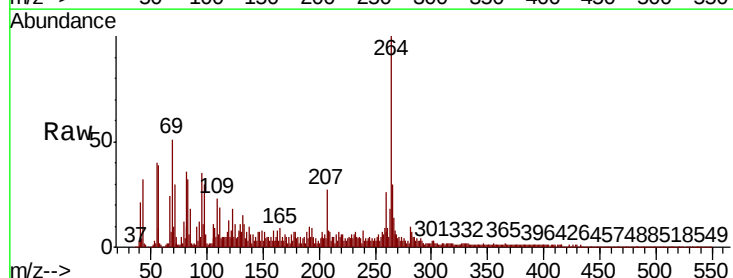
Manual Integrations
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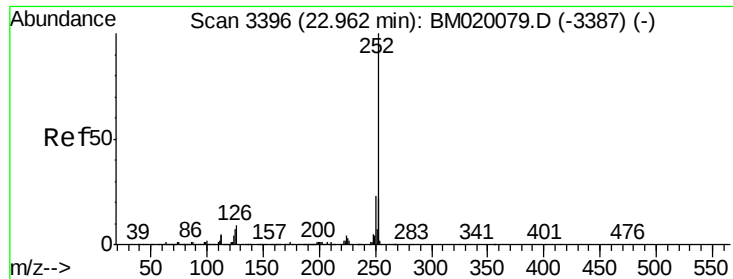
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#87
Perylene-d12
Concen: 20.000 ng
RT: 23.70 min Scan# 3521
Delta R.T. 0.04 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Tgt Ion	Ratio	Lower	Upper
264	100		
260	26.0	19.2	28.8
265	30.1	16.9	25.3#





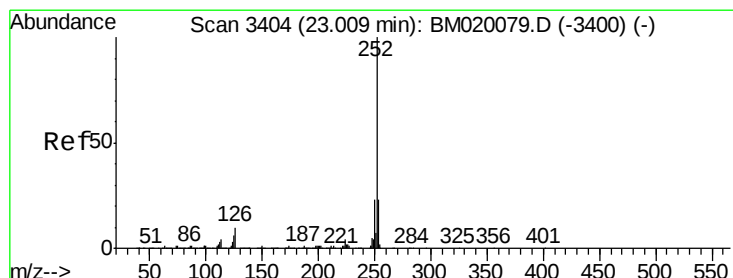
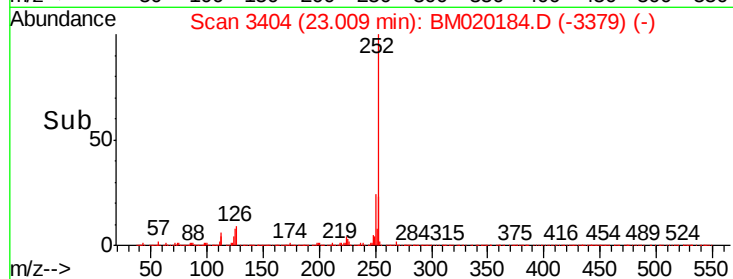
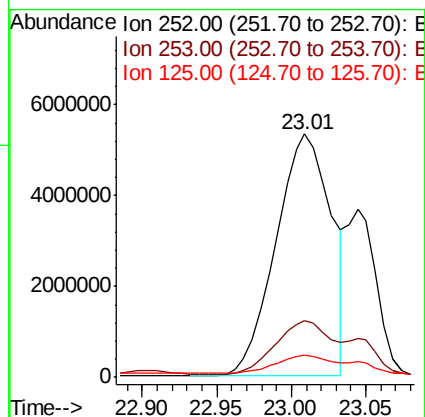
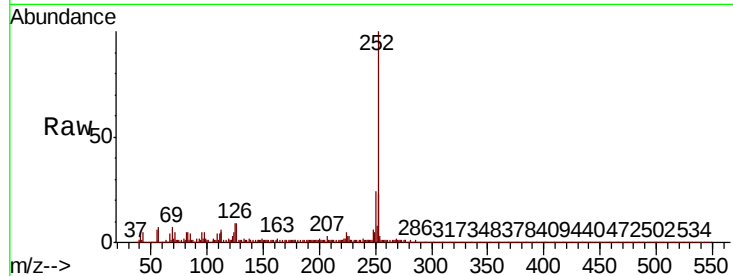
#88
Benzo(b)fluoranthene
Concen: 168.885 ng
RT: 23.01 min Scan# 3404
Delta R.T. 0.05 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Instrument :
BNA_M
ClientSampleId :
SB-2(24-27)

Tot Ion:252 Resp:13776033
Ion Ratio Lower Upper
252 100
253 23.5 17.5 26.3
125 9.2 5.4 8.2#

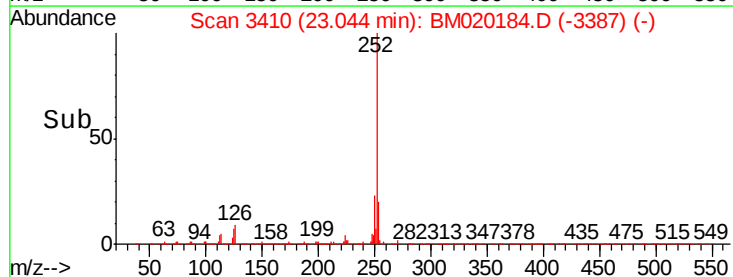
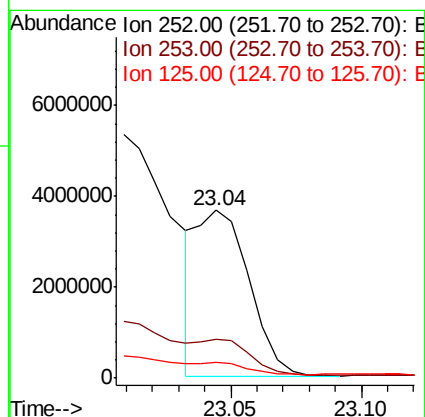
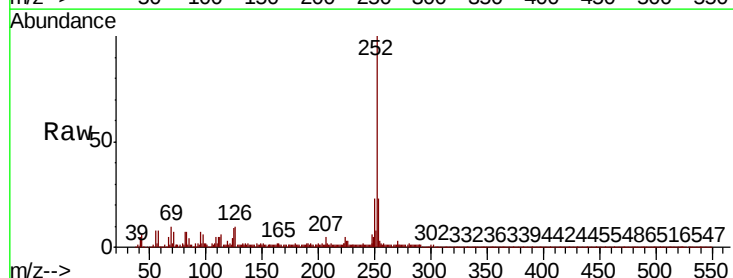
Manual Integrations
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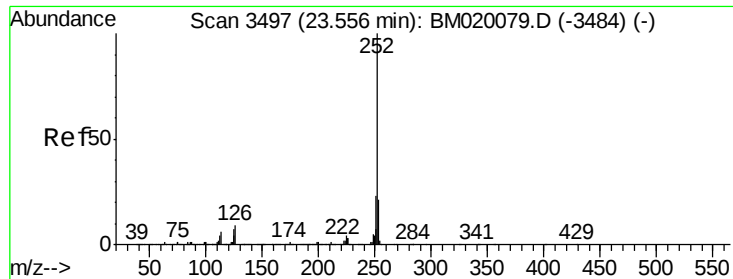
Sohil
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#89
Benzo(k)fluoranthene
Concen: 68.059 ng m
RT: 23.04 min Scan# 3410
Delta R.T. 0.04 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Tgt Ion:252 Resp: 5064124
Ion Ratio Lower Upper
252 100
253 23.5 17.8 26.8
125 9.1 5.4 8.0#





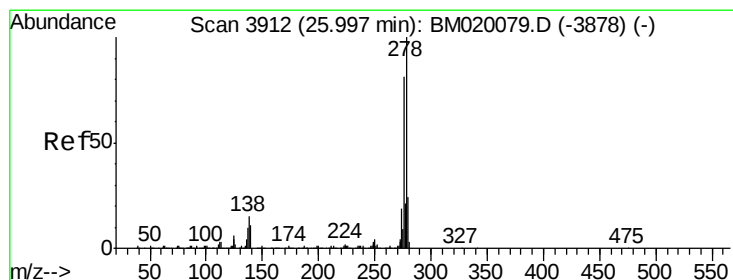
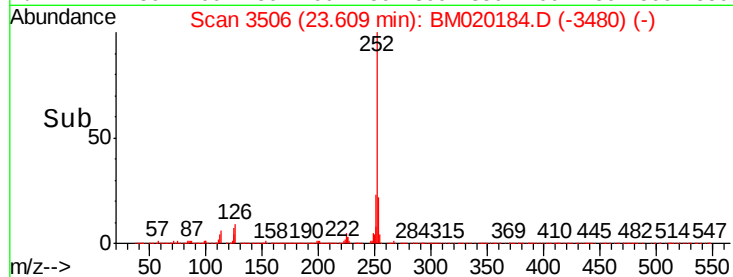
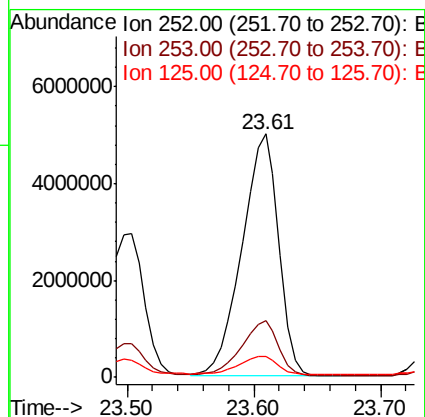
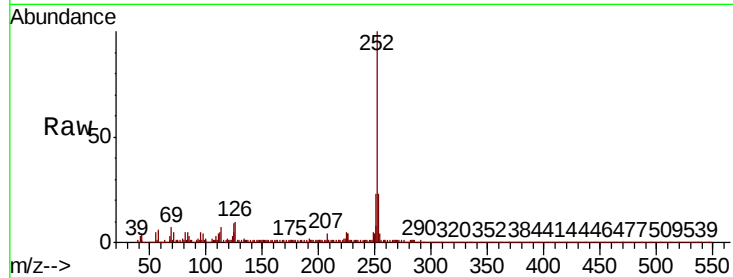
#90
Benzo(a)pyrene
Concen: 134.945 ng
RT: 23.61 min Scan# 3506
Delta R.T. 0.05 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Instrument :
BNA_M
ClientSampleId :
SB-2(24-27)

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.0	25.6
125	8.8	5.5	8.3#

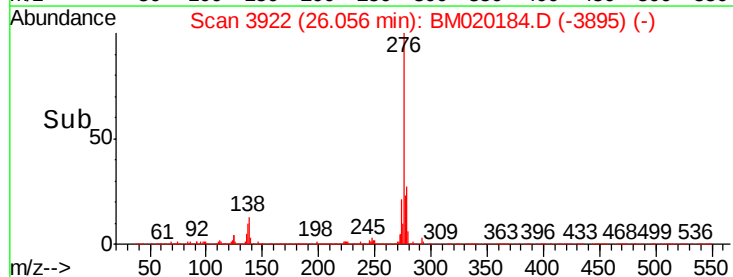
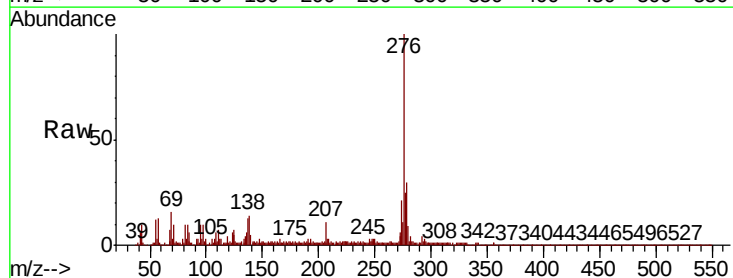
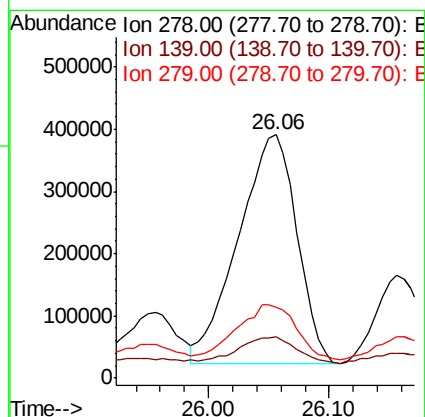
Manual Integrations
APPROVED

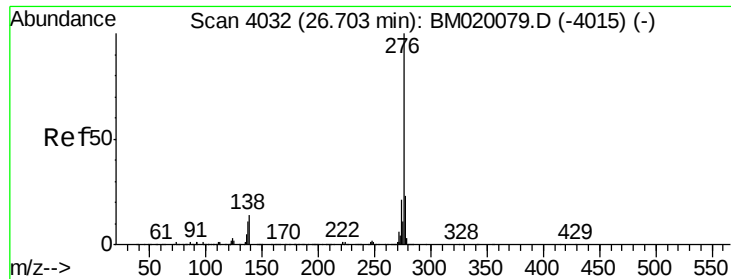
Sohil
5/9/2019 6:44:35 PM



#91
Dibenzo(a,h)anthracene
Concen: 16.183 ng
RT: 26.06 min Scan# 3922
Delta R.T. 0.06 min
Lab File: BM020184.D
Acq: 08 May 2019 02:47

Tgt Ion	Ratio	Lower	Upper
278	100		
139	16.8	8.6	13.0#
279	28.9	18.8	28.2#





#92
 Benzo(a,h,i)perylene
 Concen: 46.683 ng m
 RT: 26.79 min Scan# 4046
 Delta R.T. 0.08 min
 Lab File: BM020184.D
 Acq: 08 May 2019 02:47

Instrument :
 BNA_M
 ClientSampleId :
 SB-2(24-27)

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.1	18.4	27.6
138	14.7	11.1	16.7

Manual Integrations
 APPROVED

Sohil
 5/9/2019 6:44:35 PM

