

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN053119\
 Data File : BN005979.D
 Acq On : 31 May 2019 13:17
 Operator : JU/SJ
 Sample : K2928-03
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 A42B8

Manual Integrations
 APPROVED

mohammad
 6/5/2019 6:10:39 AM

Quant Time: May 31 14:26:15 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 31 14:10:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.74	152	528312	20.00	ng/ul	0.01
18) Naphthalene-d8	10.54	136	1943174	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.41	164	898516	20.00	ng/ul	0.02
61) Phenanthrene-d10	17.16	188	1727445	20.00	ng/ul	0.02
77) Chrysene-d12	21.41	240	1183905	20.00	ng/ul	0.05
85) Perylene-d12	23.74	264	1731537m	20.00	ng/ul	0.09

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.26	96	63484	5.29	ng/uL	0.00
5) Phenol-d5	6.92	99	1134175	24.22	ng/ul	0.02
7) Bis-(2-Chloroethyl)ether-d	7.08	67	674010	25.23	ng/ul	0.01
9) 2-Chlorophenol-d4	7.28	132	932049	26.13	ng/ul	0.01
13) 4-Methylphenol-d8	8.45	113	810013	21.43	ng/ul	0.02
19) Nitrobenzene-d5	8.90	128	420106	33.68	ng/ul	0.01
22) 2-Nitrophenol-d4	9.62	143	412447	35.51	ng/ul	0.02
26) 2,4-Dichlorophenol-d3	10.16	165	757172	27.61	ng/ul	0.02
29) 4-Chloroaniline-d4	10.68	131	435608	12.11	ng/ul	0.02
43) Dimethylphthalate-d6	13.81	166	1875403	28.31	ng/ul	0.02
46) Acenaphthylene-d8	14.09	160	2401783	28.99	ng/ul	0.02
51) 4-Nitrophenol-d4	14.62	143	264169	21.91	ng/ul	0.03
57) Fluorene-d10	15.41	176	1738959	31.30	ng/ul	0.02
62) 4,6-Dinitro-2-methylphenol	15.55	200	40139	5.70	ng/ul	0.04
70) Anthracene-d10	17.27	188	2094747	28.49	ng/ul	0.04
78) Pyrene-d10	19.58	212	1935194	32.37	ng/ul	0.04
89) Benzo(a)pyrene-d12	23.59	264	2156462m	27.91	ng/ul	0.09

Target Compounds

					Ovalue
6) Phenol	6.94	94	76889	1.594	ng/ul 96
28) Naphthalene	10.59	128	1743301	18.903	ng/ul 99
34) 2-Methylnaphthalene	12.21	142	516669	7.605	ng/ul 98
40) 1,1'-Biphenyl	13.23	154	199504	2.994	ng/ul 99
44) Dimethylphthalate	13.86	163	696168	10.515	ng/ul 100
47) Acenaphthylene	14.12	152	513613	6.321	ng/ul# 96
49) Acenaphthene	14.47	153	1804751	32.696	ng/ul 99
53) Dibenzofuran	14.81	168	1615254	20.729	ng/ul 98
58) Fluorene	15.46	166	2494343	40.757	ng/ul 97
69) Phenanthrene	17.21	178	19134926m	223.569	ng/ul
71) Anthracene	17.31	178	8403892	96.715	ng/ul 98
74) Carbazole	17.57	167	4265196	54.487	ng/ul 99
76) Fluoranthene	19.25	202	21692264m	237.415	ng/ul
79) Pyrene	19.61	202	20584363m	274.474	ng/ul
82) Benzo(a)anthracene	21.39	228	13828433	185.809	ng/ul 91
83) Bis(2-ethylhexyl)phthalate	21.31	149	112034	2.293	ng/ul# 82
84) Chrysene	21.45	228	12559094	180.936	ng/ul# 91
87) Benzo(b)fluoranthene	23.05	252	17108707	175.916	ng/ul 96
88) Benzo(k)fluoranthene	23.09	252	6849068m	76.594	ng/ul
90) Benzo(a)pyrene	23.65	252	13171488m	143.614	ng/ul
91) Indeno(1,2,3-cd)pyrene	26.11	276	9727610m	90.390	ng/ul
92) Dibenzo(a,h)anthracene	26.09	278	2729254m	30.460	ng/ul
93) Benzo(g,h,i)perylene	26.82	276	6782405m	74.829	ng/ul

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Quant Title : SVOA CALIBRATION
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

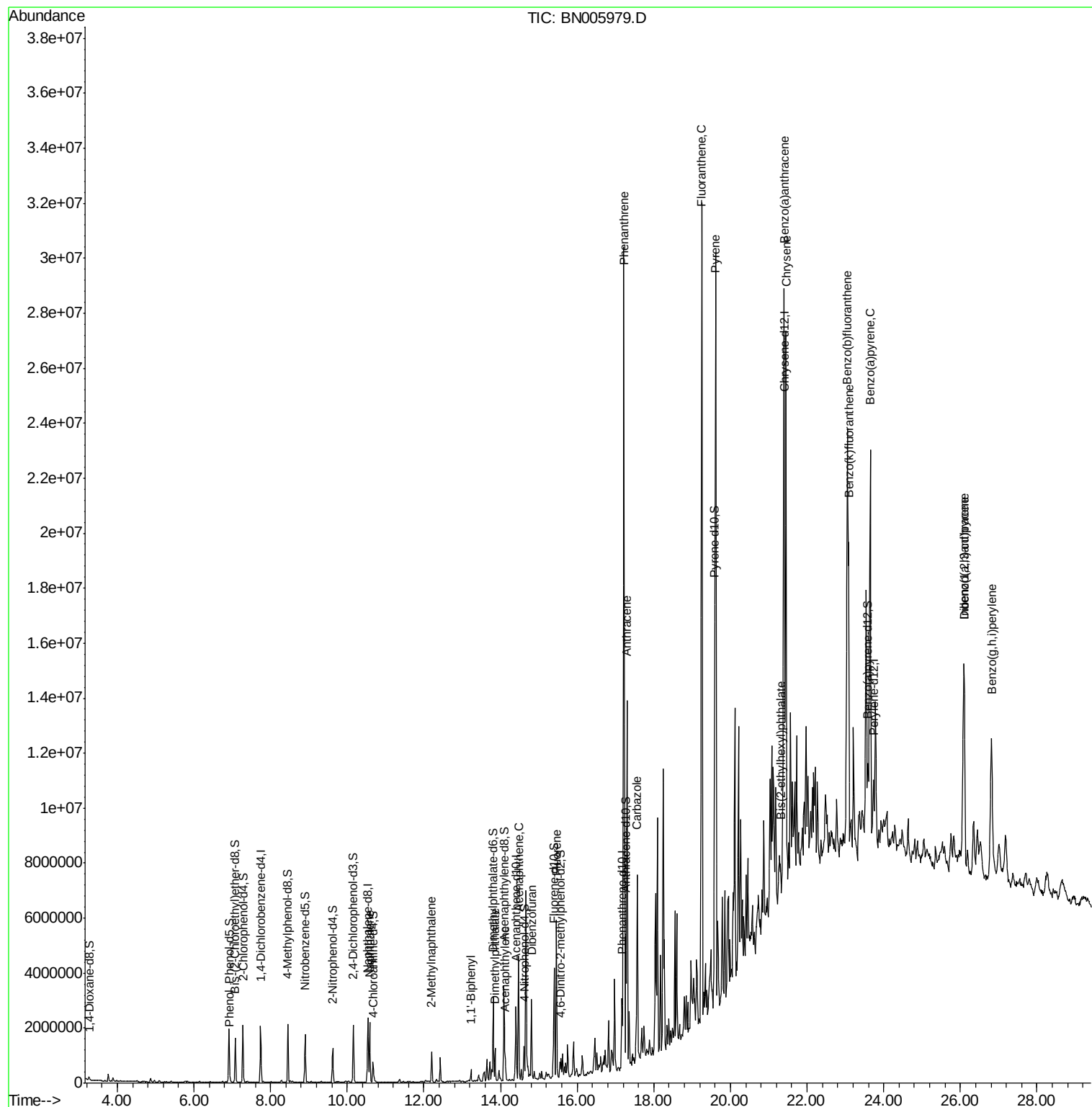
Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN053119\
Data File : BN005979.D
Acq On : 31 May 2019 13:17
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Sample : K2928-03
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ALS Vial : 9 Sample Multiplier: 1

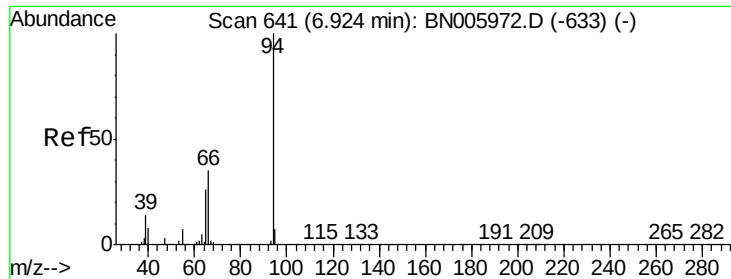
Instrument :
BNA_N
ClientSampled :
A42B8

Quant Time: May 31 14:26:15 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN052819MA.M
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#6

Phenol

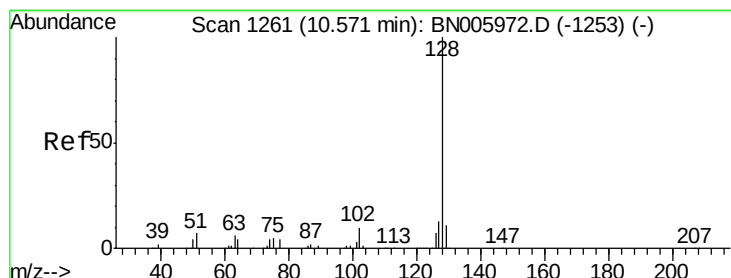
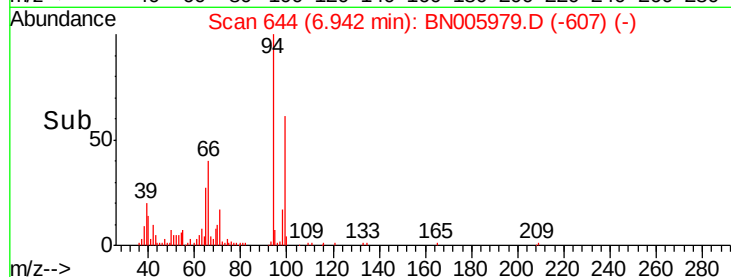
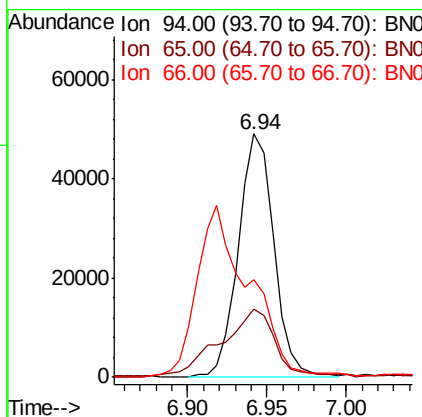
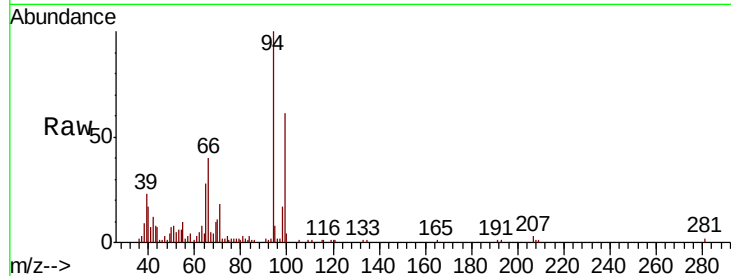
Concen: 1.594 ng/ul
 RT: 6.94 min Scan# 644
 Delta R.T. 0.02 min
 Lab File: BN005979.D
 Acq: 31 May 2019 13:17

Instrument :
 BNA_N
 ClientSampleId :
 A42B8

Tot Ion	Ratio	Lower	Upper
94	100		
65	28.1	24.2	36.4
66	40.0	33.8	50.6

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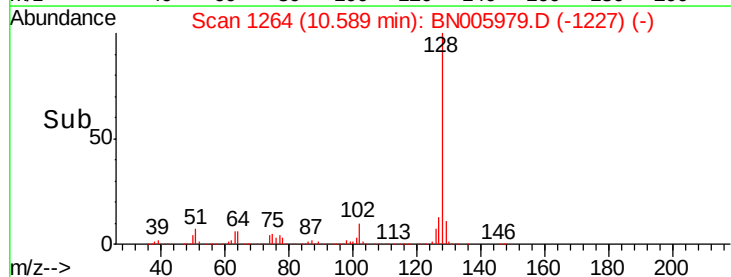
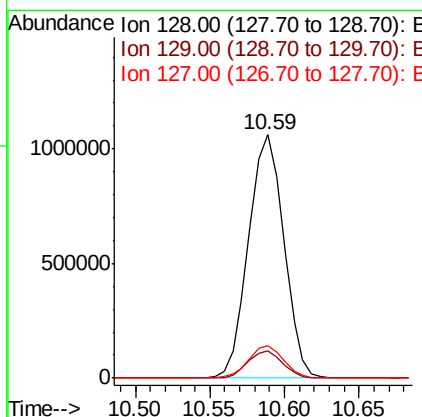
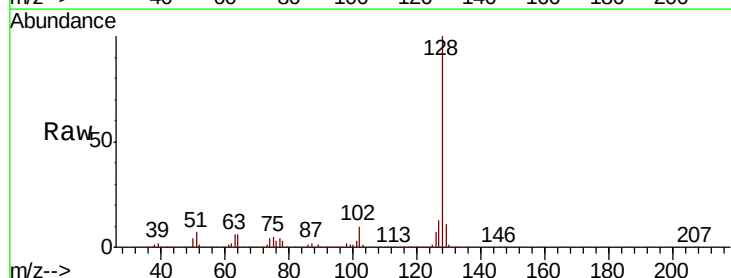


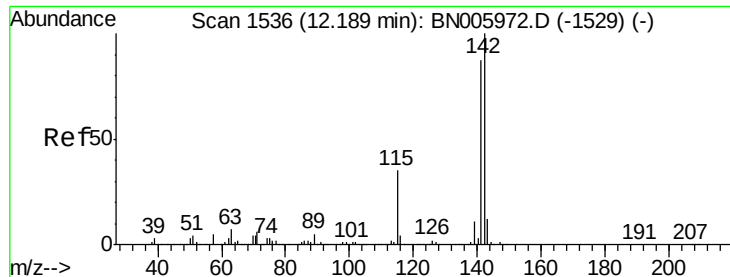
#28

Naphthalene

Concen: 18.903 ng/ul
 RT: 10.59 min Scan# 1264
 Delta R.T. 0.02 min
 Lab File: BN005979.D
 Acq: 31 May 2019 13:17

Tgt Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.2	10.7	16.1





#34

2-Methylnaphthalene

Concen: 7.605 ng/ul

RT: 12.21 min Scan# 1539

Delta R.T. 0.02 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

Instrument :

BNA_N

ClientSampleId :

A42B8

Tot Ion:142 Resp: 516669

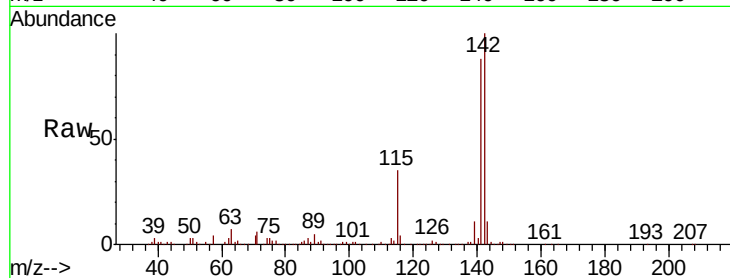
Ion Ratio Lower Upper

142 100

141 88.1 72.0 108.0

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Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.21

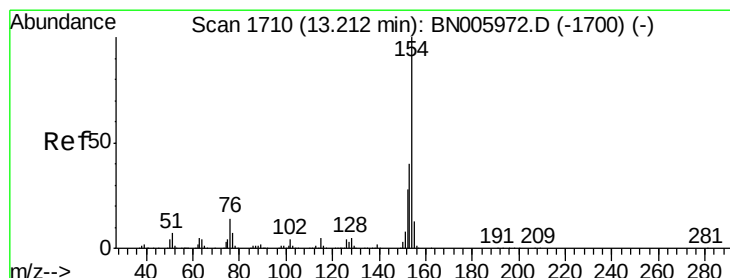
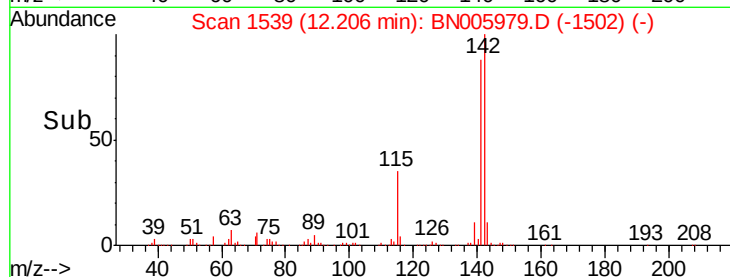
300000

200000

100000

0

Time-->



#40

1,1'-Biphenyl

Concen: 2.994 ng/ul

RT: 13.23 min Scan# 1713

Delta R.T. 0.02 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

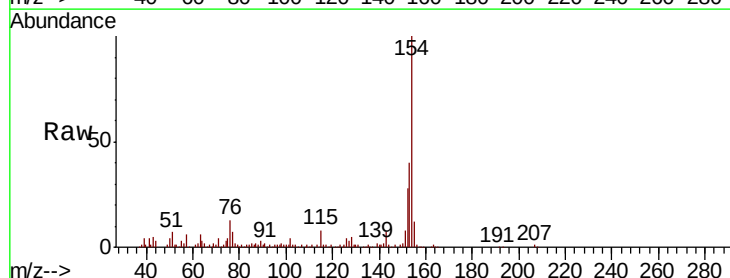
Tgt Ion:154 Resp: 199504

Ion Ratio Lower Upper

154 100

153 40.5 32.6 49.0

76 13.2 10.4 15.6



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BNC

13.23

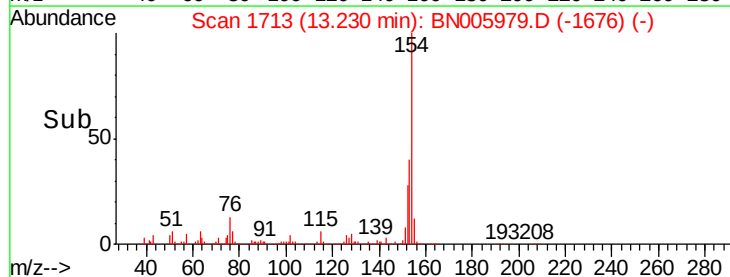
150000

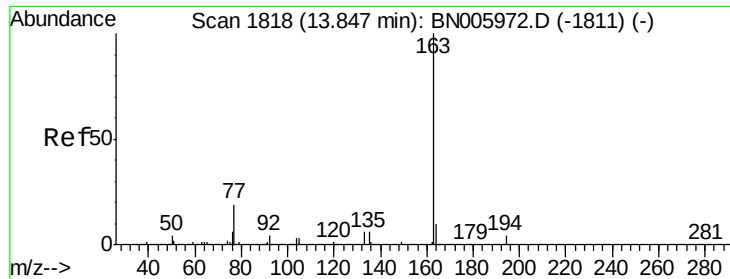
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50000

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Time-->





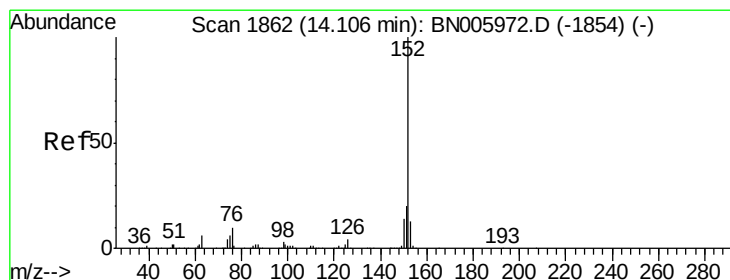
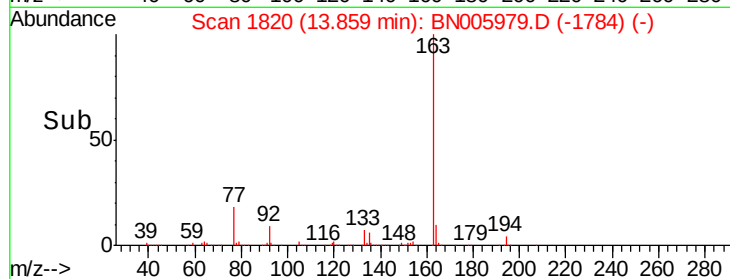
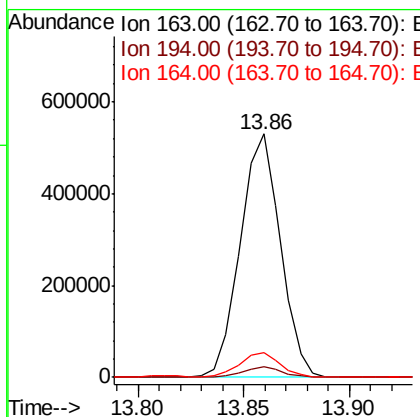
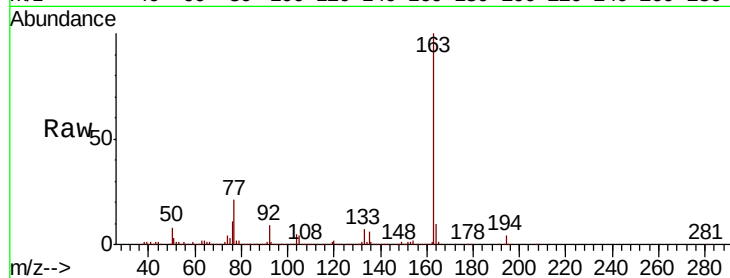
#44
Dimethylphthalate
Concen: 10.515 ng/ul
RT: 13.86 min Scan# 1820
Delta R.T. 0.01 min
Lab File: BN005979.D
Acq: 31 May 2019 13:17

Instrument :
BNA_N
ClientSampleId :
A42B8

Tot Ion	Ratio	Resp	Lower	Upper
163	100	696168		
194	4.2		3.4	5.0
164	10.1		8.1	12.1

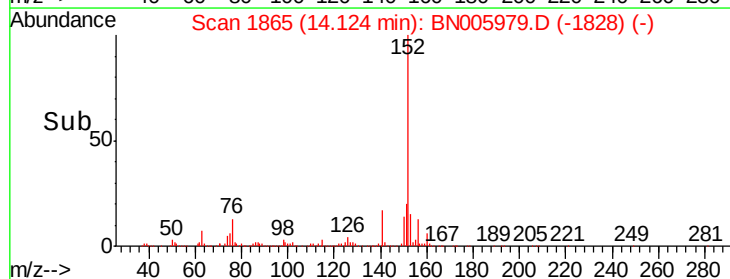
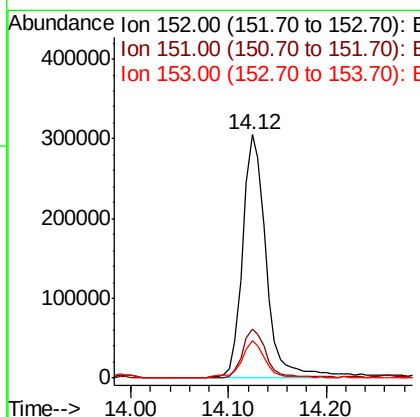
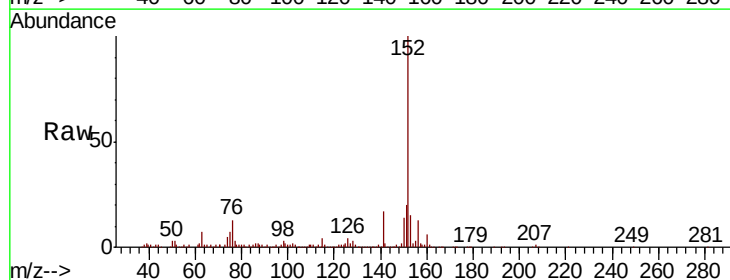
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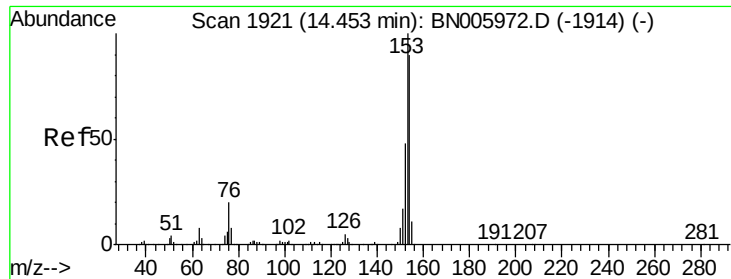
mohammad
6/5/2019 6:10:39 AM



#47
Acenaphthylene
Concen: 6.321 ng/ul
RT: 14.12 min Scan# 1865
Delta R.T. 0.02 min
Lab File: BN005979.D
Acq: 31 May 2019 13:17

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	513613		
151	20.4		15.8	23.8
153	15.4		9.8	14.8#





#49

Acenaphthene

Concen: 32.696 ng/ul

RT: 14.47 min Scan# 1924

Delta R.T. 0.02 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

Instrument :

BNA_N

ClientSampleId :

A42B8

Tot Ion:153 Resp: 1804751

Ion Ratio Lower Upper

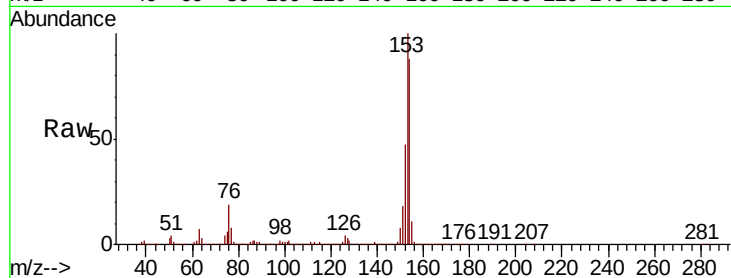
153 100

152 47.4 37.4 56.0

154 88.3 71.2 106.8

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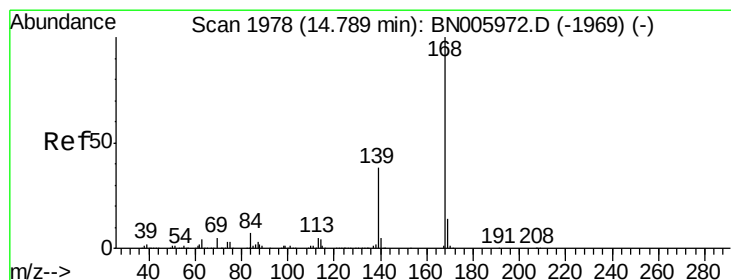
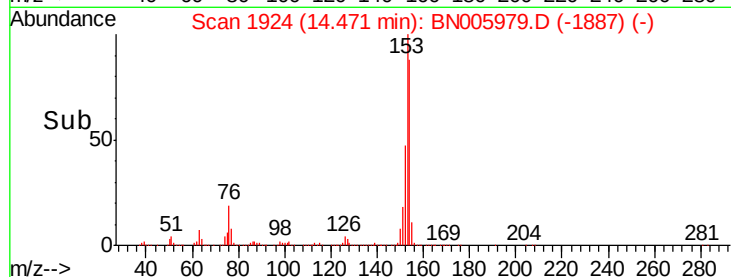
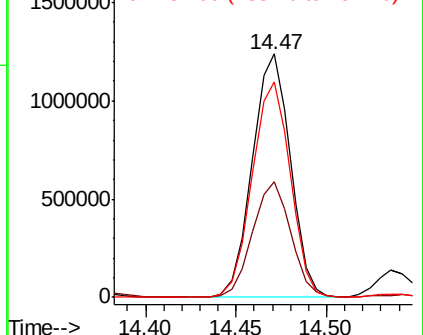


Abundance

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 20.729 ng/ul

RT: 14.81 min Scan# 1981

Delta R.T. 0.02 min

Lab File: BN005979.D

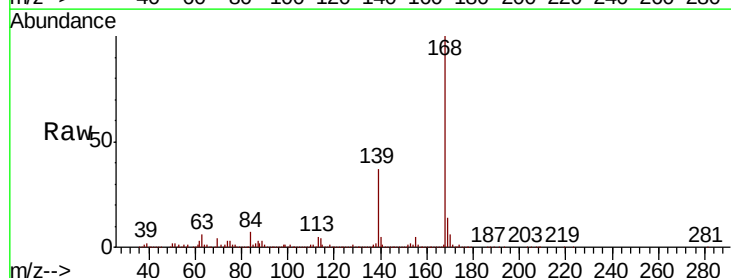
Acq: 31 May 2019 13:17

Tgt Ion:168 Resp: 1615254

Ion Ratio Lower Upper

168 100

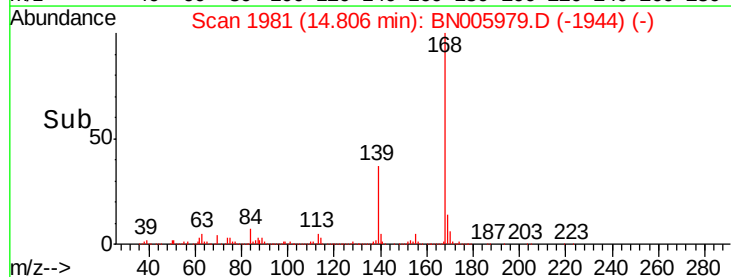
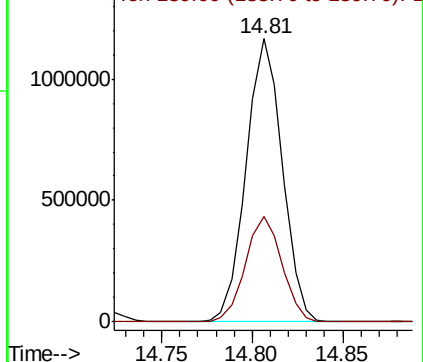
139 37.5 30.9 46.3

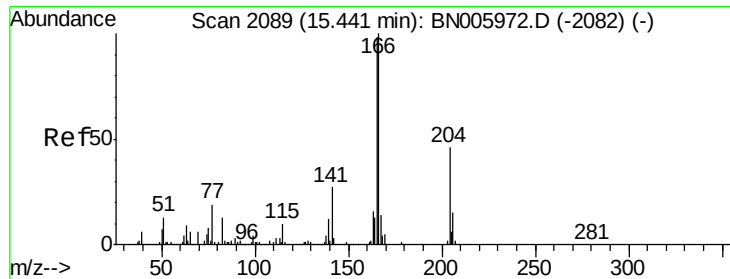


Abundance

Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





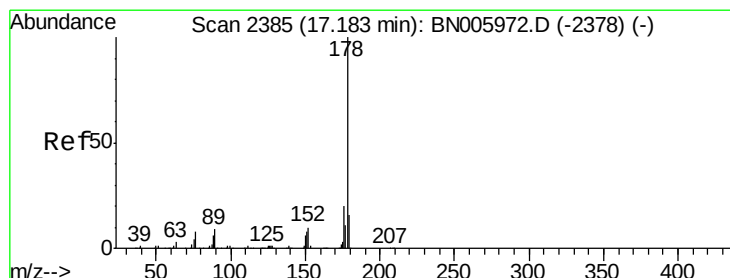
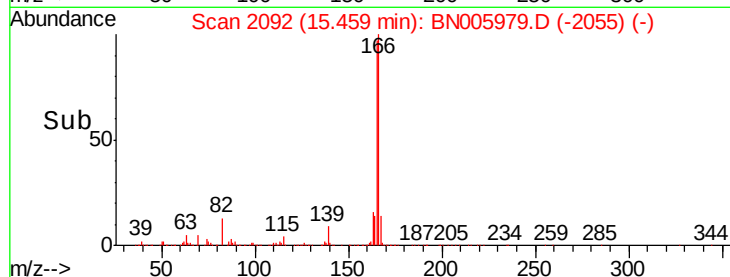
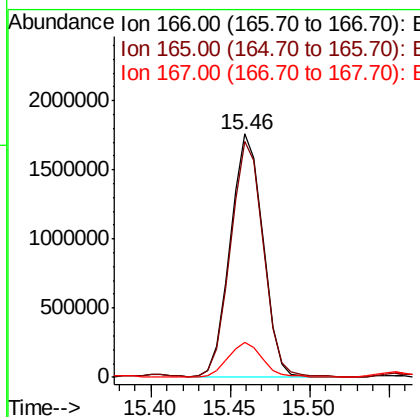
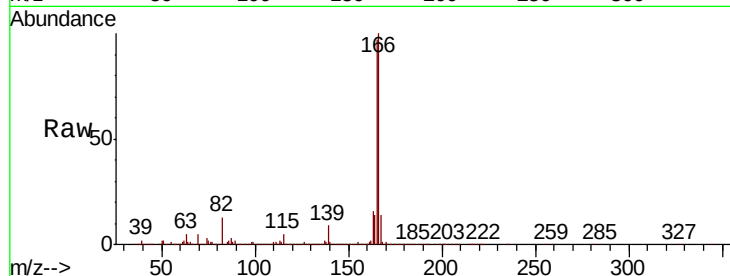
#58
 Fluorene
 Concen: 40.757 ng/ul
 RT: 15.46 min Scan# 2092
 Delta R.T. 0.02 min
 Lab File: BN005979.D
 Acq: 31 May 2019 13:17

Instrument :
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 ClientSampleId :
 A42B8

Tot Ion	Ratio	Lower	Upper
166	100		
165	97.1	80.0	120.0
167	14.1	10.7	16.1

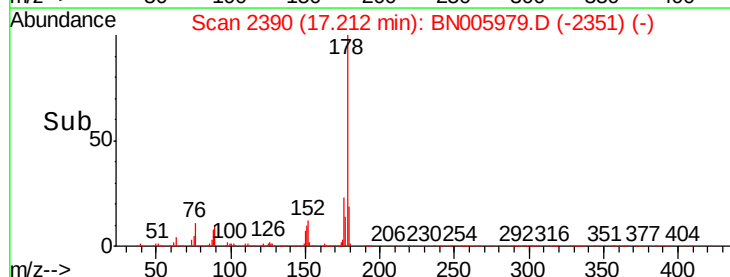
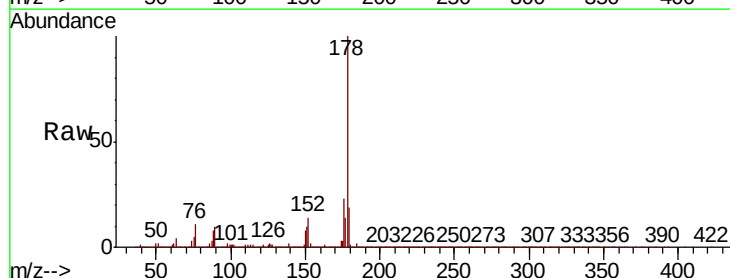
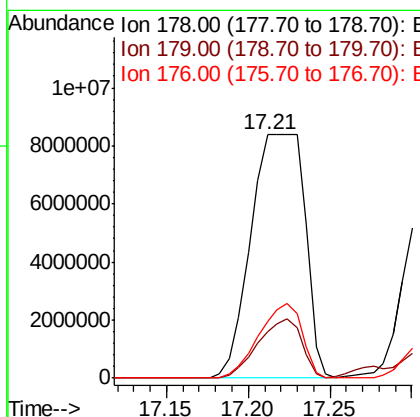
Manual Integrations
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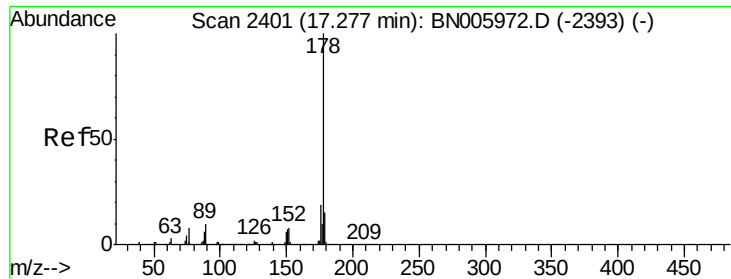
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#69
 Phenanthrene
 Concen: 223.569 ng/ul m
 RT: 17.21 min Scan# 2390
 Delta R.T. 0.03 min
 Lab File: BN005979.D
 Acq: 31 May 2019 13:17

Tgt Ion	Ratio	Lower	Upper
178	100		
179	19.0	12.2	18.4#
176	23.1	15.1	22.7#





#71

Anthracene

Concen: 96.715 ng/ul

RT: 17.31 min Scan# 2406

Delta R.T. 0.03 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

Instrument :

BNA_N

ClientSampled :

A42B8

Tot Ion:178 Resp: 8403892

Ion Ratio Lower Upper

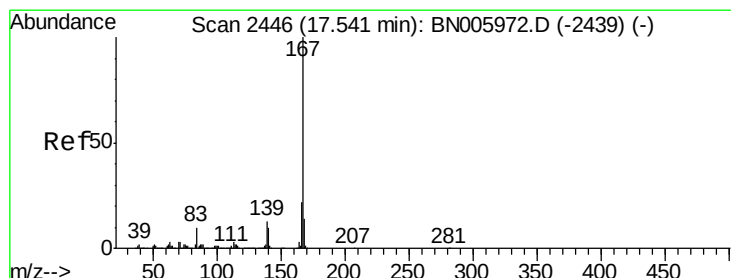
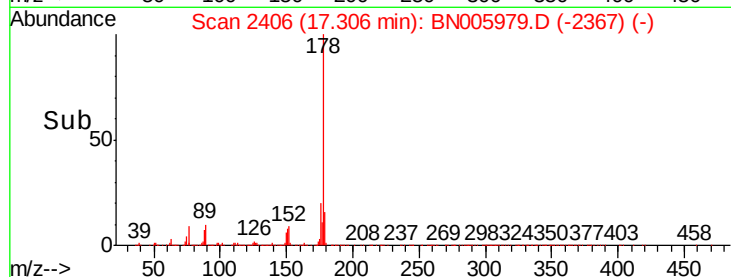
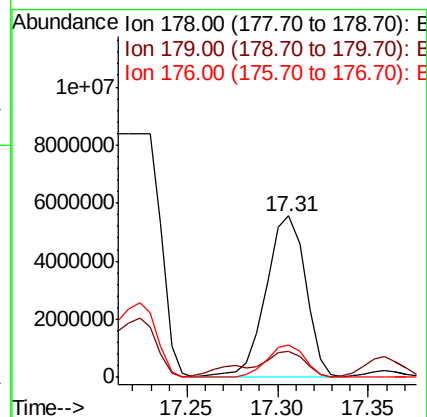
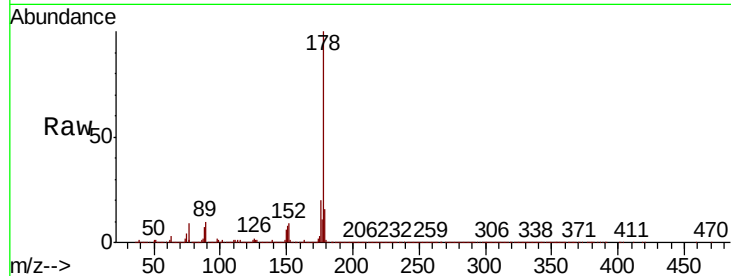
178 100

179 16.5 12.3 18.5

176 19.8 15.1 22.7

Manual Integrations
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#74

Carbazole

Concen: 54.487 ng/ul

RT: 17.57 min Scan# 2451

Delta R.T. 0.03 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

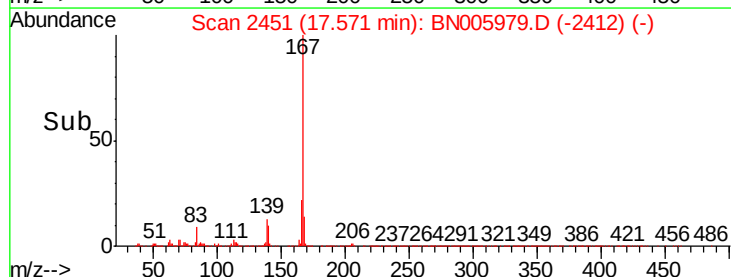
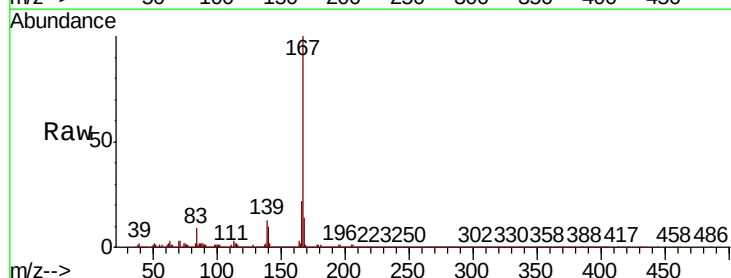
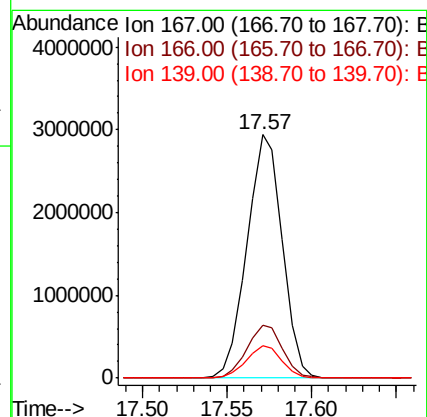
Tgt Ion:167 Resp: 4265196

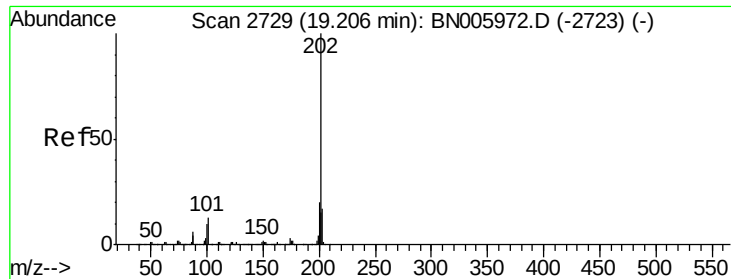
Ion Ratio Lower Upper

167 100

166 21.9 17.2 25.8

139 13.3 10.6 16.0





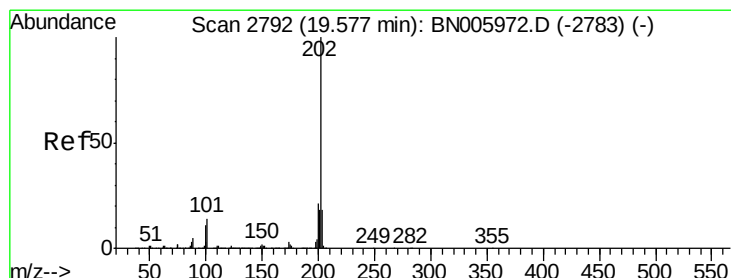
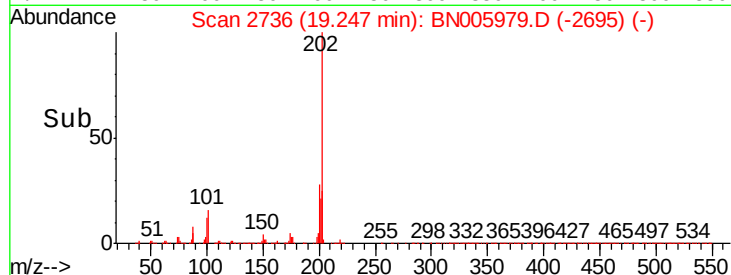
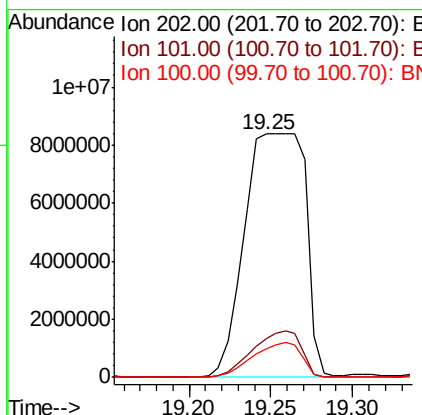
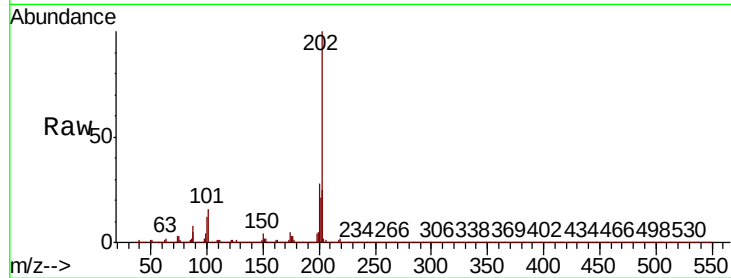
#76
Fluoranthene
Concen: 237.415 ng/ul m
RT: 19.25 min Scan# 2736
Delta R.T. 0.04 min
Lab File: BN005979.D
Acq: 31 May 2019 13:17

Instrument :
BNA_N
ClientSampleId :
A42B8

Tot Ion:202 Resp:21692264
Ion Ratio Lower Upper
202 100
101 15.8 8.6 12.8#
100 11.8 6.3 9.5#

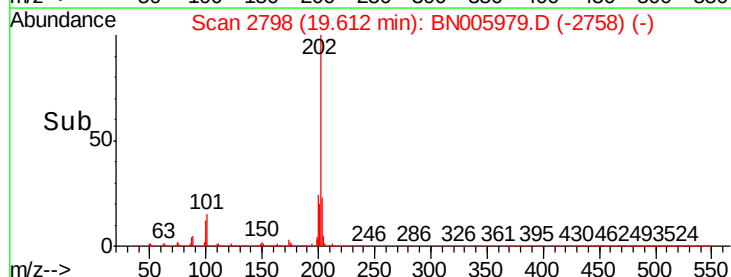
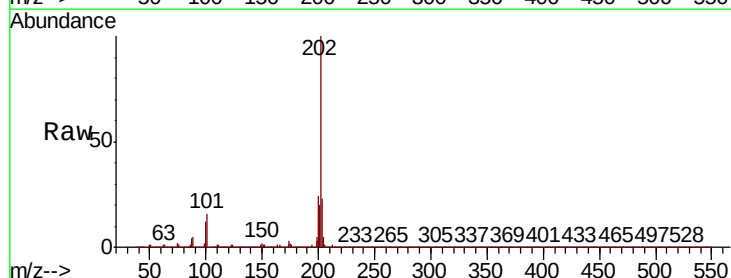
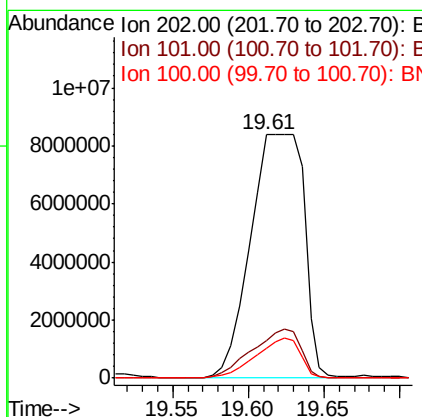
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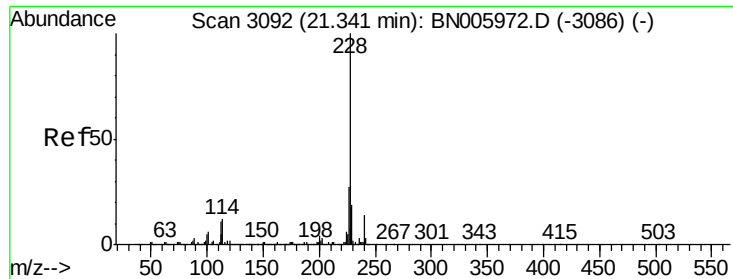
mohammad
6/5/2019 6:10:39 AM



#79
Pyrene
Concen: 274.474 ng/ul m
RT: 19.61 min Scan# 2798
Delta R.T. 0.04 min
Lab File: BN005979.D
Acq: 31 May 2019 13:17

Tgt Ion:202 Resp:20584363
Ion Ratio Lower Upper
202 100
101 15.5 10.3 15.5#
100 12.4 7.9 11.9#





#82

Benzo(a)anthracene

Concen: 185.809 ng/ul

RT: 21.39 min Scan# 3101

Delta R.T. 0.05 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

Instrument :

BNA_N

ClientSampled :

A42B8

Tot Ion:228 Resp:13828433

Ion Ratio Lower Upper

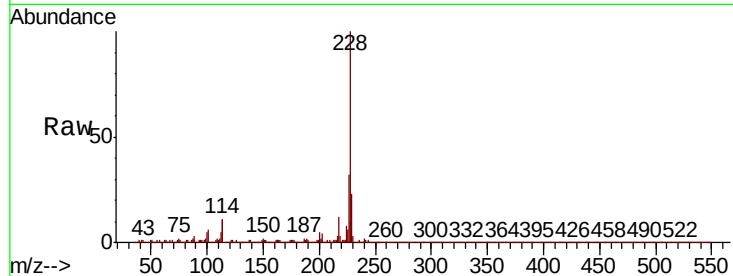
228 100

229 23.3 15.8 23.6

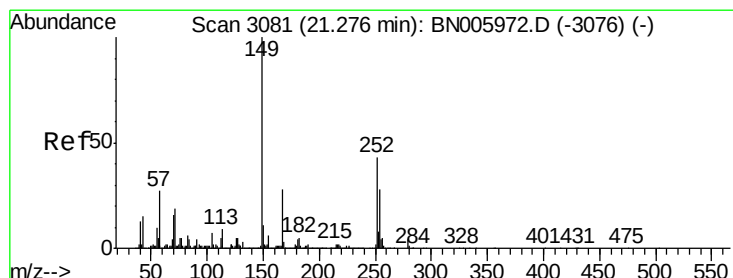
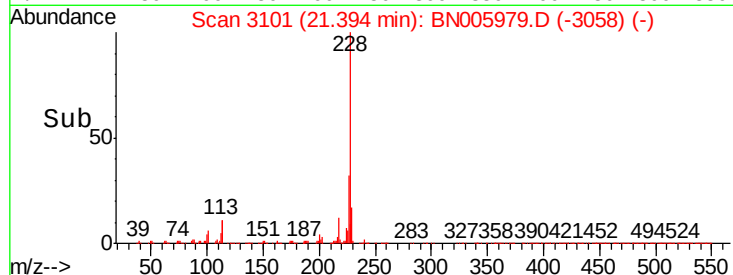
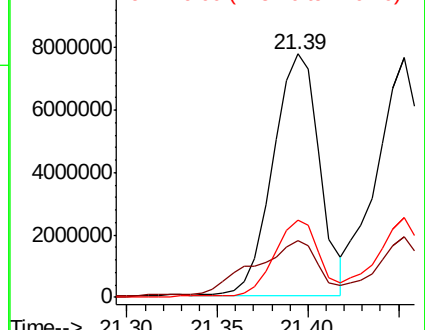
226 31.9 21.4 32.2

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Abundance Ion 228.00 (227.70 to 228.70): E
Ion 229.00 (228.70 to 229.70): E
Ion 226.00 (225.70 to 226.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 2.293 ng/ul

RT: 21.31 min Scan# 3087

Delta R.T. 0.04 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

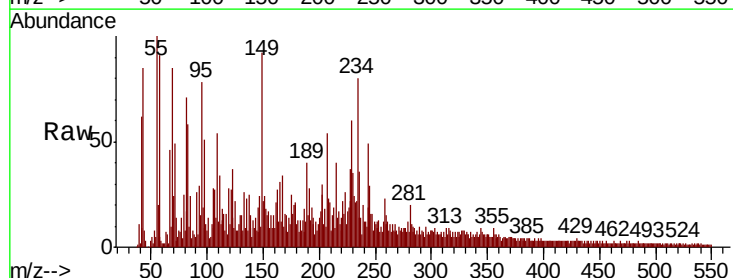
Tgt Ion:149 Resp: 112034

Ion Ratio Lower Upper

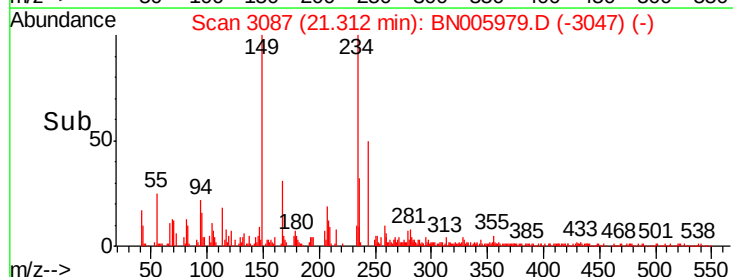
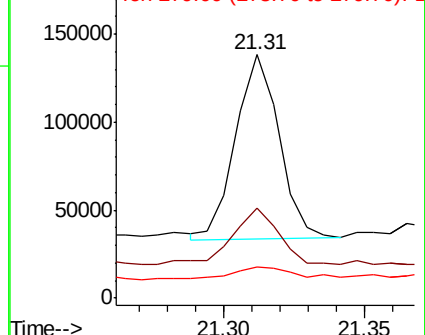
149 100

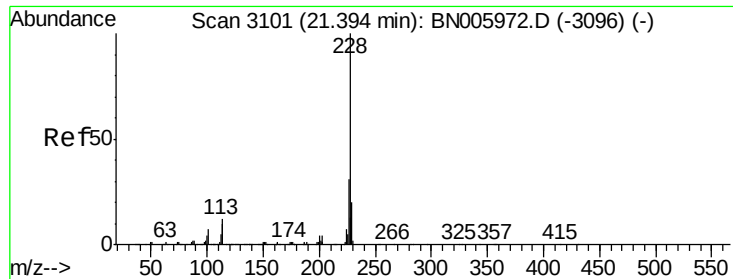
167 36.7 22.3 33.5#

279 12.7 3.3 4.9#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E





#84

Chrysene

Concen: 180.936 ng/ul

RT: 21.45 min Scan# 3111

Delta R.T. 0.06 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

Instrument :

BNA_N

ClientSampled :

A42B8

Tot Ion:228 Resp:12559094

Ion Ratio Lower Upper

228 100

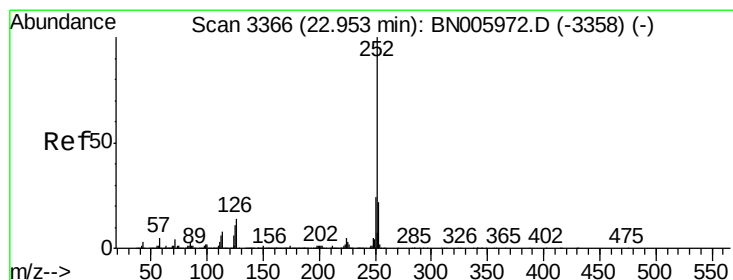
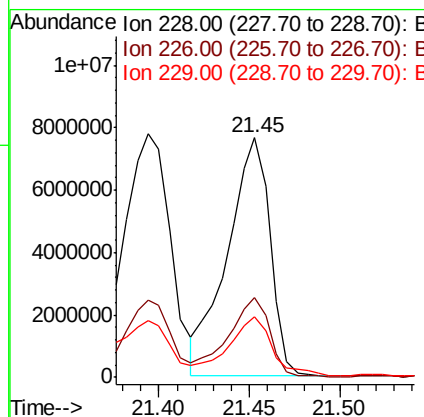
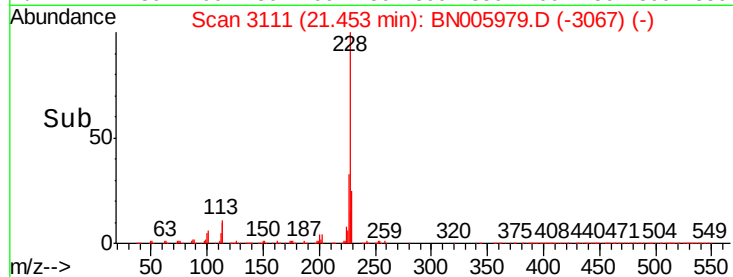
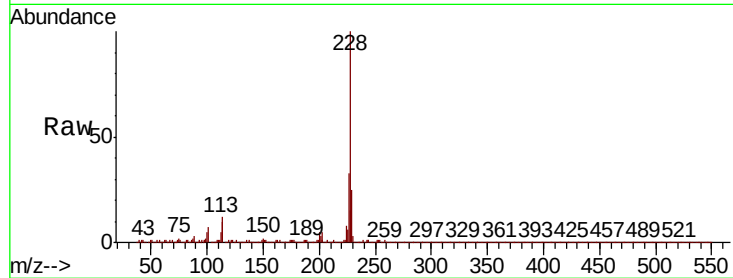
226 33.1 24.0 36.0

229 25.4 15.4 23.0#

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#87

Benzo(b)fluoranthene

Concen: 175.916 ng/ul

RT: 23.05 min Scan# 3383

Delta R.T. 0.10 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

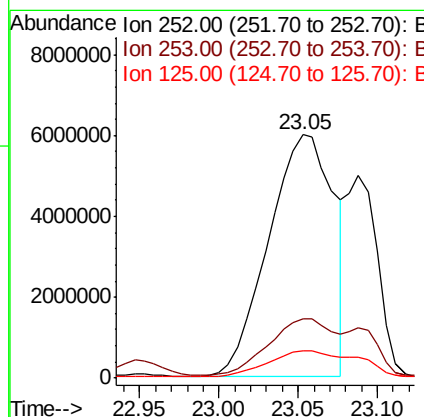
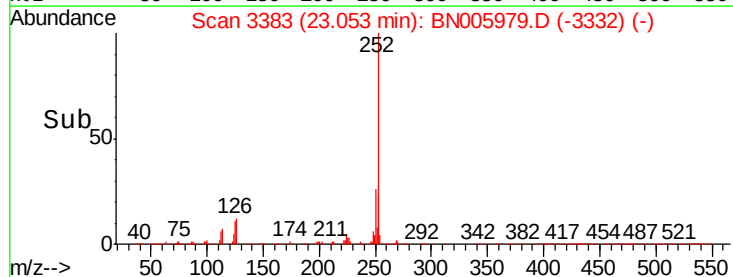
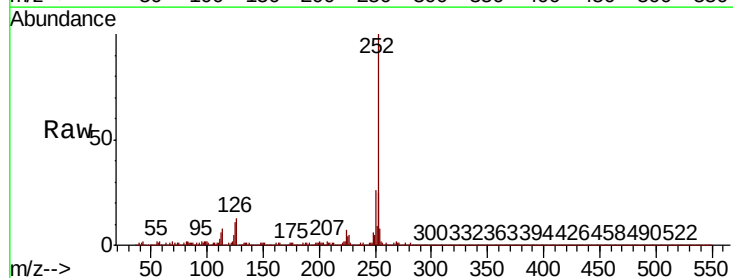
Tgt Ion:252 Resp:17108707

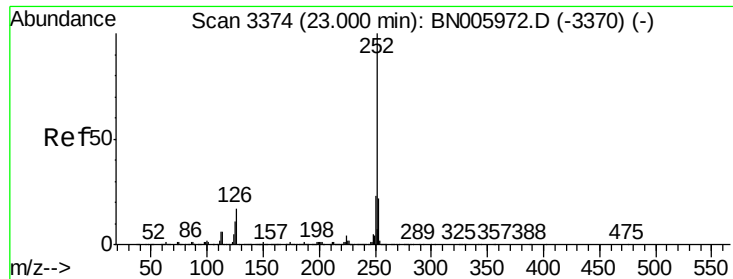
Ion Ratio Lower Upper

252 100

253 24.6 17.7 26.5

125 11.2 8.4 12.6





#88

Benzo(k)fluoranthene

Concen: 76.594 ng/ul m

RT: 23.09 min Scan# 3389

Delta R.T. 0.09 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

Instrument :

BNA_N

ClientSampleId :

A42B8

Tot Ion:252 Resp: 6849068

Ion Ratio Lower Upper

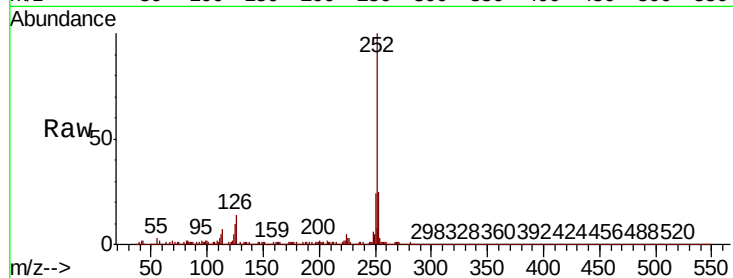
252 100

253 24.9 17.4 26.0

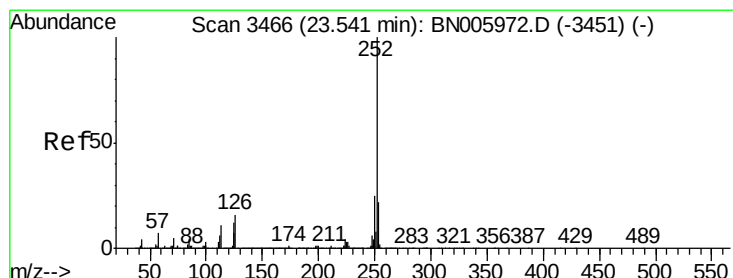
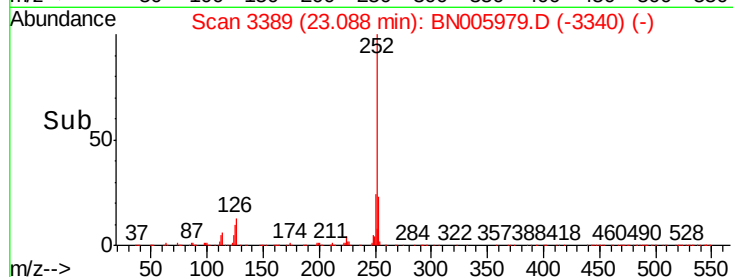
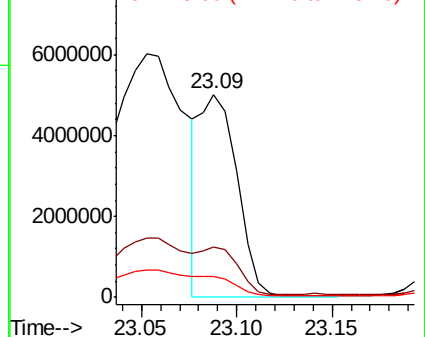
125 10.3 7.5 11.3

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Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#90

Benzo(a)pyrene

Concen: 143.614 ng/ul m

RT: 23.65 min Scan# 3485

Delta R.T. 0.11 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

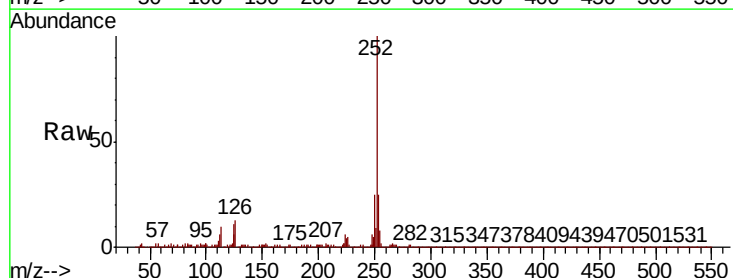
Tgt Ion:252 Resp:13171488

Ion Ratio Lower Upper

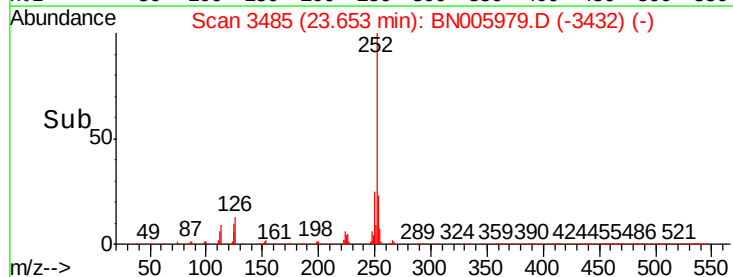
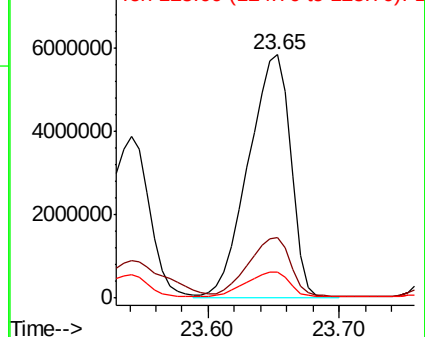
252 100

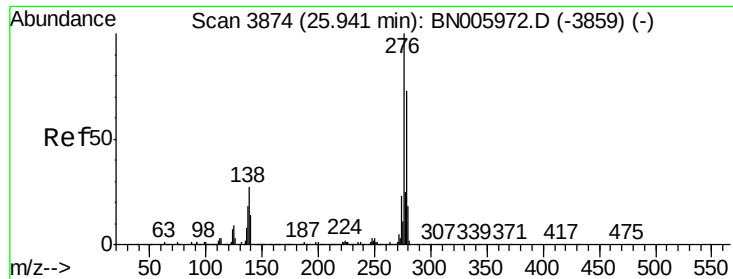
253 24.6 17.3 25.9

125 10.8 8.6 13.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#91

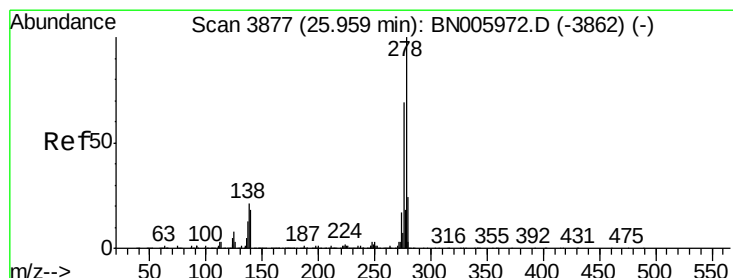
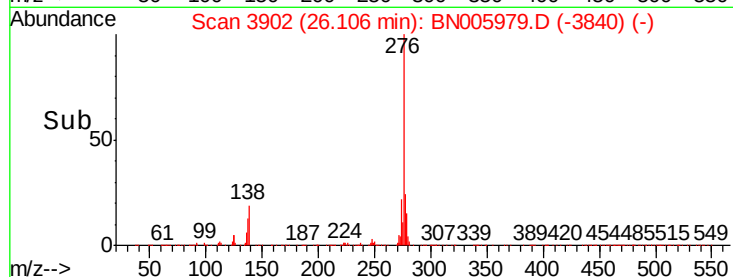
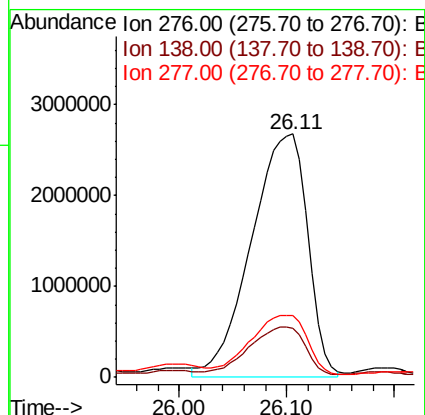
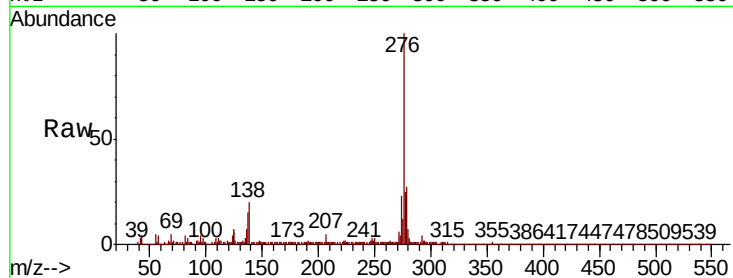
Indeno(1,2,3-cd)pyrene
Concen: 90.390 ng/ul m
RT: 26.11 min Scan# 3902
Delta R.T. 0.16 min
Lab File: BN005979.D
Acq: 31 May 2019 13:17

Instrument :
BNA_N
ClientSampleId :
A42B8

Tot Ion:276 Resp: 9727610
Ion Ratio Lower Upper
276 100
138 20.0 17.9 26.9
277 25.4 19.7 29.5

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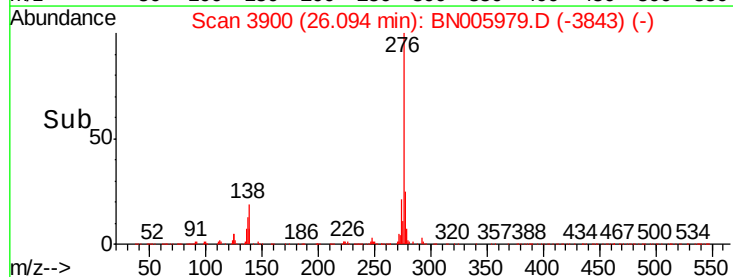
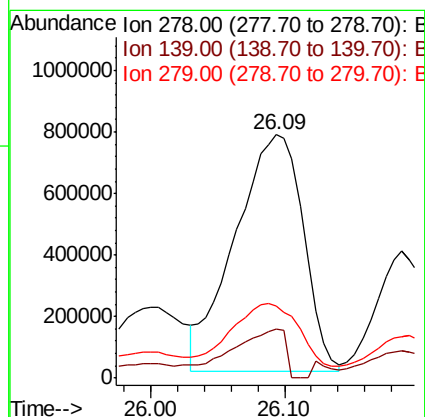
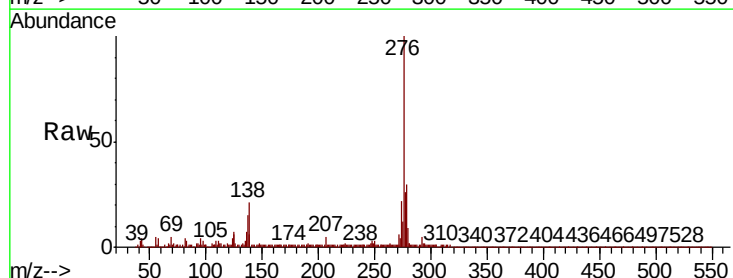
mohammad
6/5/2019 6:10:39 AM

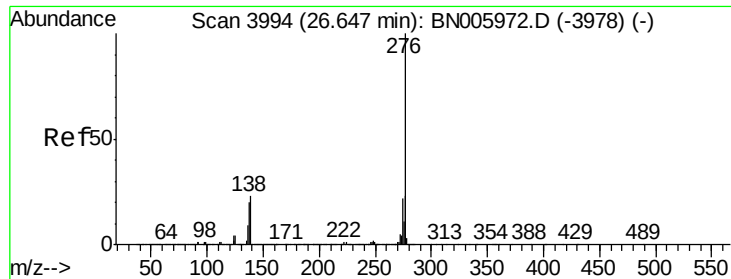


#92

Dibenzo(a,h)anthracene
Concen: 30.460 ng/ul m
RT: 26.09 min Scan# 3900
Delta R.T. 0.14 min
Lab File: BN005979.D
Acq: 31 May 2019 13:17

Tgt Ion:278 Resp: 2729254
Ion Ratio Lower Upper
278 100
139 20.0 13.1 19.7#
279 29.7 19.4 29.0#





#93

Benzo(a,h,i)perylene

Concen: 74.829 ng/ul m

RT: 26.82 min Scan# 4023

Delta R.T. 0.17 min

Lab File: BN005979.D

Acq: 31 May 2019 13:17

Instrument :

BNA_N

ClientSampleId :

A42B8

Tot Ion:276 Resp: 6782405

Ion Ratio Lower Upper

276 100

138 21.6 16.7 25.1

277 25.4 18.2 27.2

Manual Integrations

APPROVED

mohammad

6/5/2019 6:10:39 AM

