

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050119\
 Data File : BN005408.D
 Acq On : 01 May 2019 13:37
 Operator : JU/SJ
 Sample : K2456-03ME
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAHS3ME

Manual Integrations
 APPROVED

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 5/2/2019 4:57:13 PM

Quant Time: May 03 11:48:14 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Apr 25 03:19:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	385963	20.00	ng/ul	0.00
18) Naphthalene-d8	10.37	136	1631334	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.23	164	1003518	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	2143443	20.00	ng/ul	0.00
77) Chrysene-d12	21.22	240	1445815	20.00	ng/ul	0.00
85) Perylene-d12	23.43	264	1485610	20.00	ng/ul	-0.01

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	38881	4.86	ng/uL	0.00
5) Phenol-d5	6.78	99	862074	28.44	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.95	67	509059	26.92	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	716809	30.90	ng/ul	0.00
13) 4-Methylphenol-d8	8.30	113	667953	28.19	ng/ul	0.00
19) Nitrobenzene-d5	8.74	128	371271	36.98	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	402324	39.52	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	733313	31.43	ng/ul	0.00
29) 4-Chloroaniline-d4	10.50	131	855596	35.56	ng/ul	0.00
43) Dimethylphthalate-d6	13.65	166	2189020	30.05	ng/ul	0.00
46) Acenaphthylene-d8	13.92	160	2762970	30.88	ng/ul	0.00
51) 4-Nitrophenol-d4	14.45	143	296657	25.79	ng/ul	0.02
57) Fluorene-d10	15.23	176	1880991	30.77	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.38	200	58904	6.11	ng/ul	0.02
70) Anthracene-d10	17.09	188	2808234	31.25	ng/ul	0.00
78) Pyrene-d10	19.40	212	2657581	35.93	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.29	264	2016807	31.06	ng/ul	-0.01

Target Compounds

					Ovalue
28) Naphthalene	10.42	128	29856328m	393.685	ng/ul
34) 2-Methylnaphthalene	12.05	142	15552958	280.085	ng/ul 100
40) 1,1'-Biphenyl	13.06	154	3171094	42.411	ng/ul 98
47) Acenaphthylene	13.96	152	9307085	105.848	ng/ul# 96
49) Acenaphthene	14.30	153	993997	16.559	ng/ul 99
53) Dibenzofuran	14.63	168	1107415	12.813	ng/ul 100
58) Fluorene	15.29	166	6741025	99.957	ng/ul 97
69) Phenanthrene	17.03	178	20068436m	192.246	ng/ul
71) Anthracene	17.13	178	7169631	67.421	ng/ul 99
74) Carbazole	17.39	167	208526	2.283	ng/ul# 92
76) Fluoranthene	19.07	202	10553011	91.141	ng/ul 98
79) Pyrene	19.44	202	13446053	144.439	ng/ul 98
82) Benzo(a)anthracene	21.20	228	4730672m	52.595	ng/ul
84) Chrysene	21.26	228	3999750	47.914	ng/ul 99
87) Benzo(b)fluoranthene	22.78	252	3008374	36.024	ng/ul 98
88) Benzo(k)fluoranthene	22.82	252	741040m	9.291	ng/ul
90) Benzo(a)pyrene	23.34	252	3269961m	41.658	ng/ul
91) Indeno(1,2,3-cd)pyrene	25.62	276	1266078	14.589	ng/ul# 95
92) Dibenzo(a,h)anthracene	25.62	278	375681	5.101	ng/ul 96
93) Benzo(g,h,i)perylene	26.28	276	1065275	14.845	ng/ul 95

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

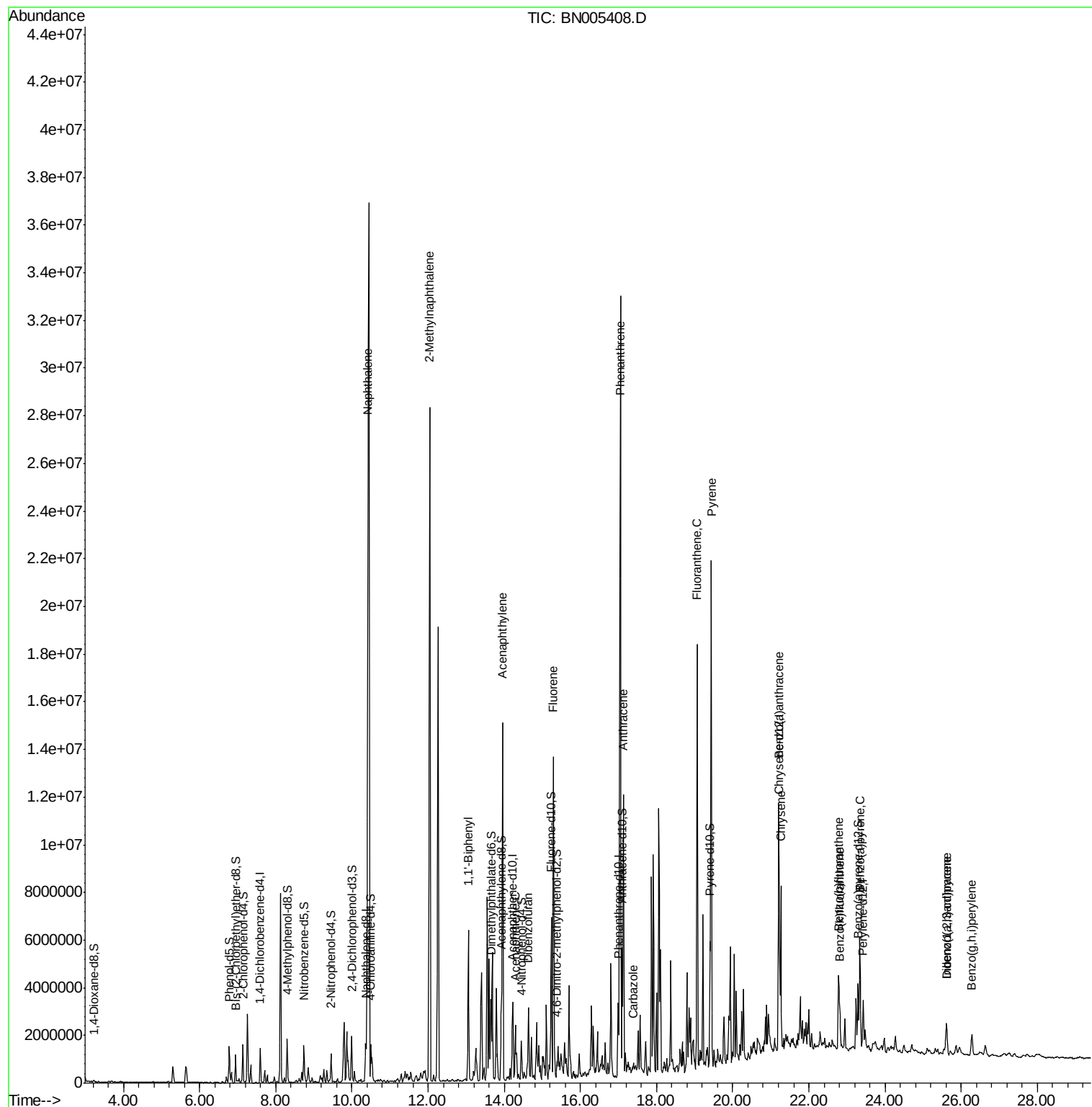
Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN050119\
Data File : BN005408.D
Acq On : 01 May 2019 13:37
Operator : JU/SJ
Sample : K2456-03ME
Misc :
ALS Vial : 7 Sample Multiplier: 1

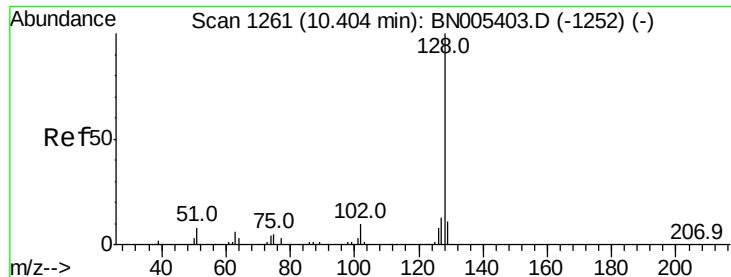
Instrument :
BNA_N
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GAHS3ME

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Quant Time: May 03 11:48:14 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Apr 25 03:19:34 2019
Response via : Initial Calibration





#28

Naphthalene

Concen: 393.685 ng/ul m

RT: 10.42 min Scan# 1263

Delta R.T. 0.01 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

Instrument :

BNA_N

ClientSampleId :

GAHS3ME

Tot Ion:128 Resp:29856328

Ion Ratio Lower Upper

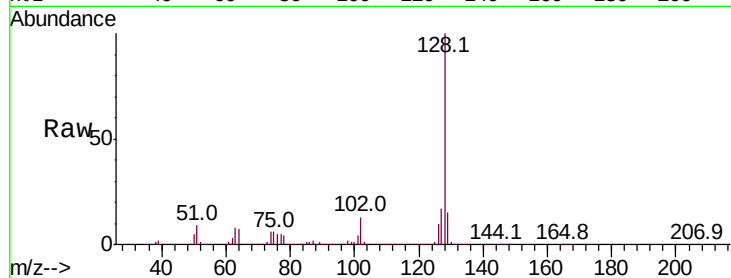
128 100

129 14.9 9.2 13.8#

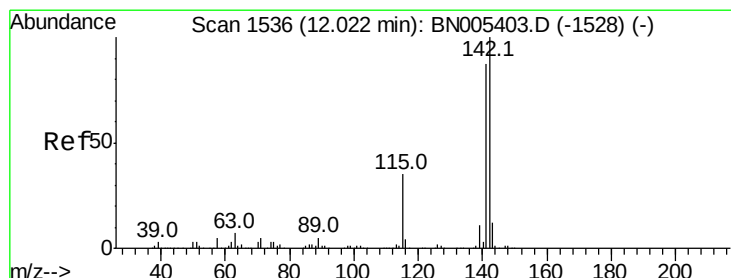
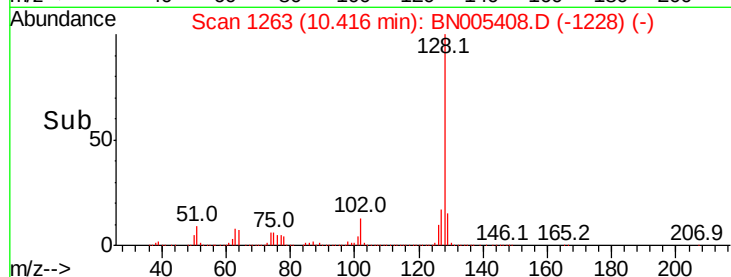
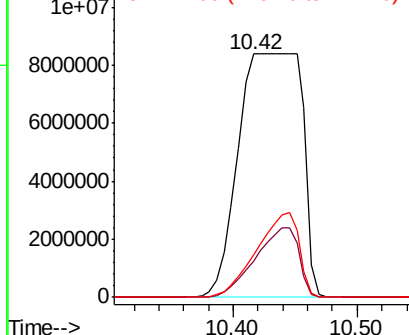
127 17.3 10.7 16.1#

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Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E



#34

2-Methylnaphthalene

Concen: 280.085 ng/ul

RT: 12.05 min Scan# 1540

Delta R.T. 0.02 min

Lab File: BN005408.D

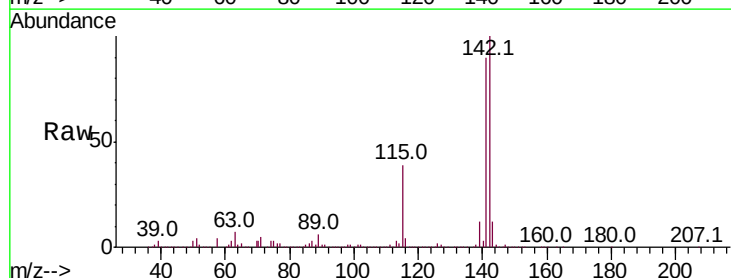
Acq: 01 May 2019 13:37

Tgt Ion:142 Resp:15552958

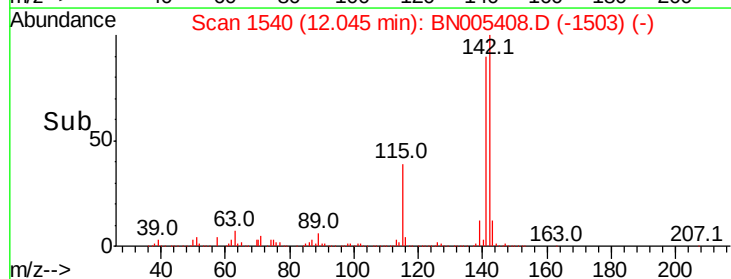
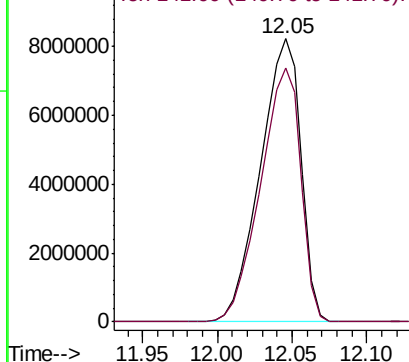
Ion Ratio Lower Upper

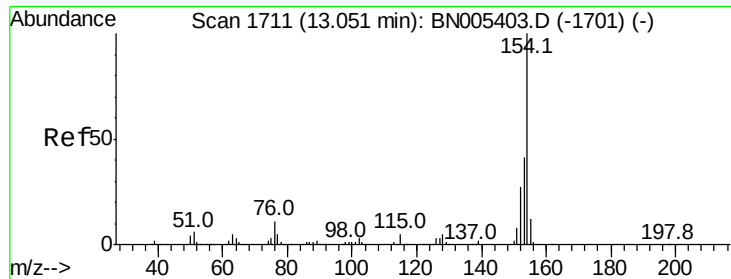
142 100

141 89.9 72.0 108.0



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E





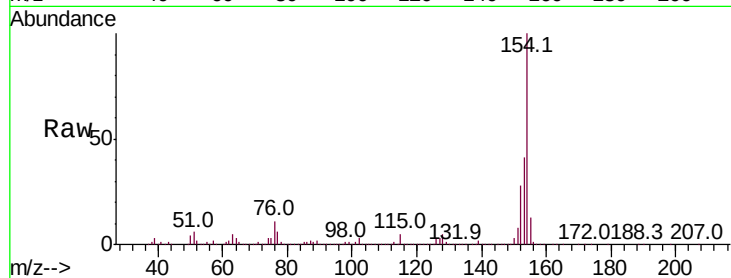
#40
1,1'-Biphenyl
Concen: 42.411 ng/ul
RT: 13.06 min Scan# 1712
Delta R.T. 0.00 min
Lab File: BN005408.D
Acq: 01 May 2019 13:37

Instrument :
BNA_N
ClientSampled :
GAHS3ME

Tot Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.6	49.0
76	11.4	10.4	15.6

Manual Integrations
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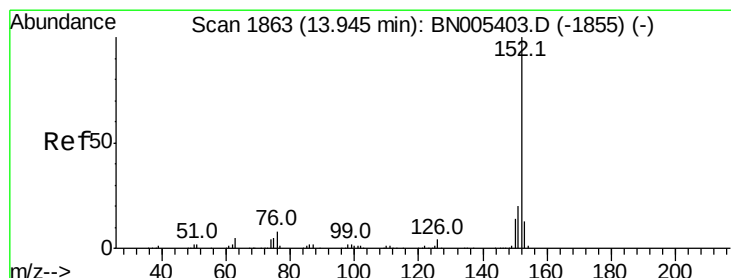
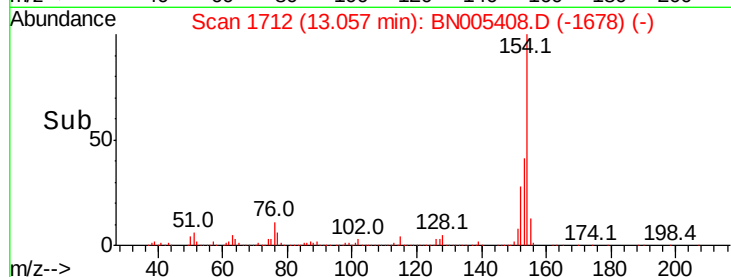
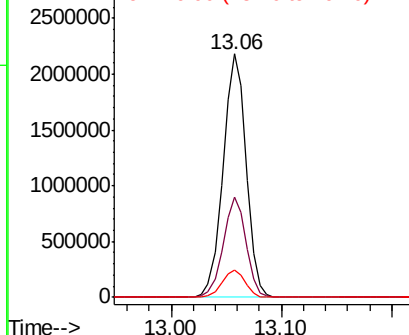


Abundance

Ion 154.00 (153.70 to 154.70): E

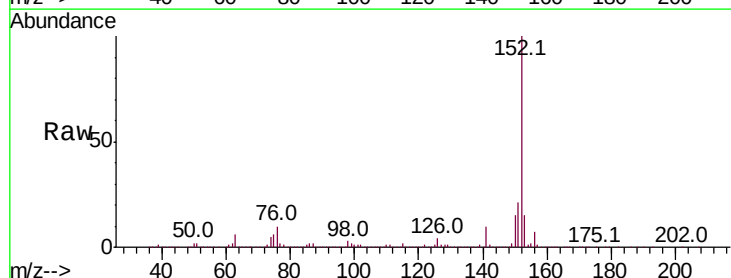
Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BNO



#47
Acenaphthylene
Concen: 105.848 ng/ul
RT: 13.96 min Scan# 1865
Delta R.T. 0.01 min
Lab File: BN005408.D
Acq: 01 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
152	100		
151	21.1	15.8	23.8
153	14.8	9.8	14.8#

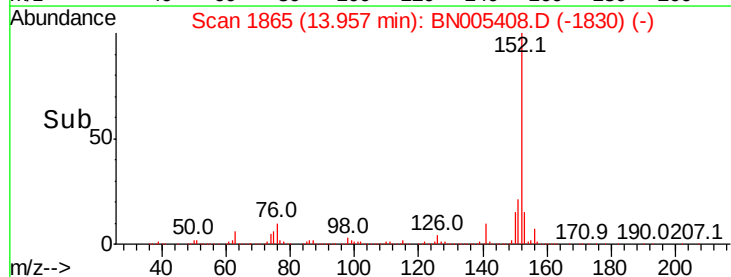
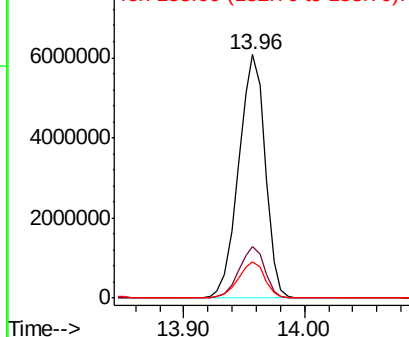


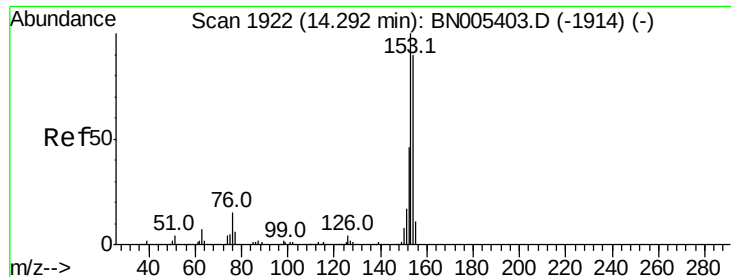
Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 16.559 ng/ul

RT: 14.30 min Scan# 1923

Delta R.T. 0.00 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

Instrument :

BNA_N

ClientSampleId :

GAHS3ME

Tot Ion:153 Resp: 993997

Ion Ratio Lower Upper

153 100

152 46.6 37.4 56.0

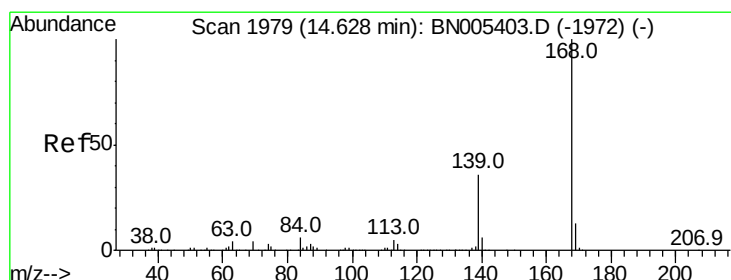
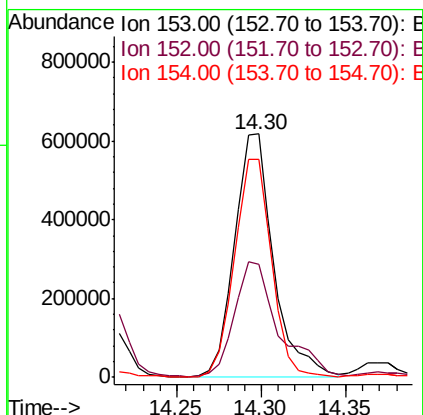
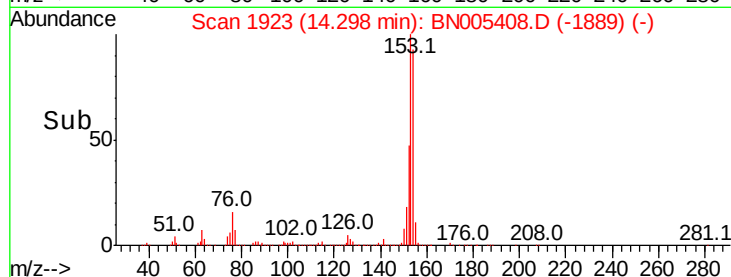
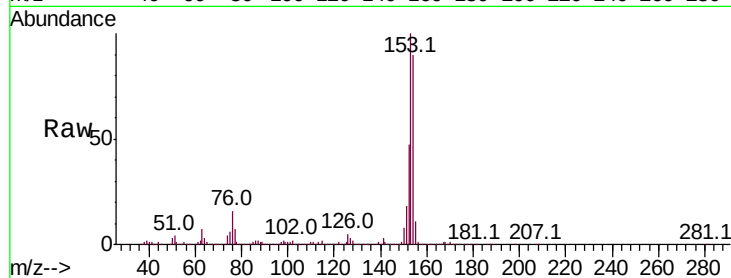
154 89.7 71.2 106.8

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#53

Dibenzofuran

Concen: 12.813 ng/ul

RT: 14.63 min Scan# 1980

Delta R.T. 0.00 min

Lab File: BN005408.D

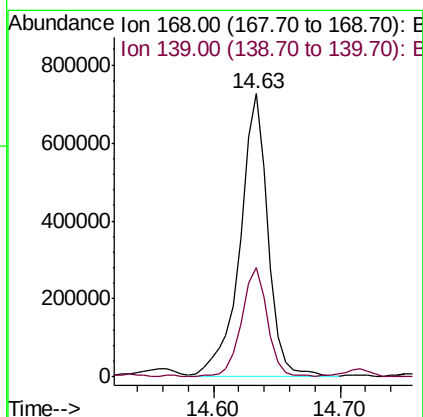
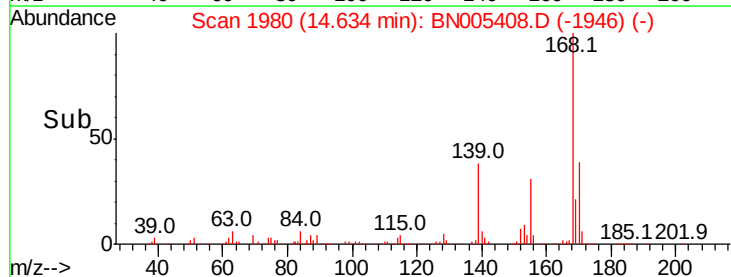
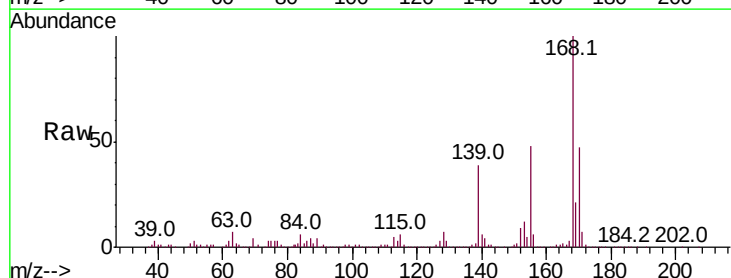
Acq: 01 May 2019 13:37

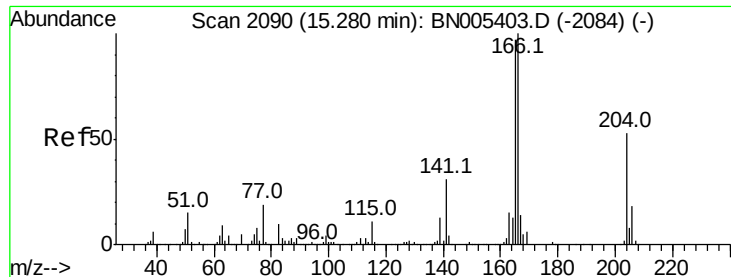
Tgt Ion:168 Resp: 1107415

Ion Ratio Lower Upper

168 100

139 38.7 30.9 46.3





#58

Fluorene

Concen: 99.957 ng/ul

RT: 15.29 min Scan# 2092

Delta R.T. 0.01 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

Instrument :

BNA_N

ClientSampled :

GAHS3ME

Tot Ion:166 Resp: 6741025

Ion Ratio Lower Upper

166 100

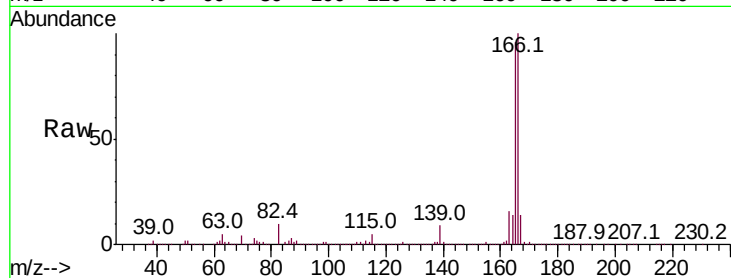
165 96.5 80.0 120.0

167 13.9 10.7 16.1

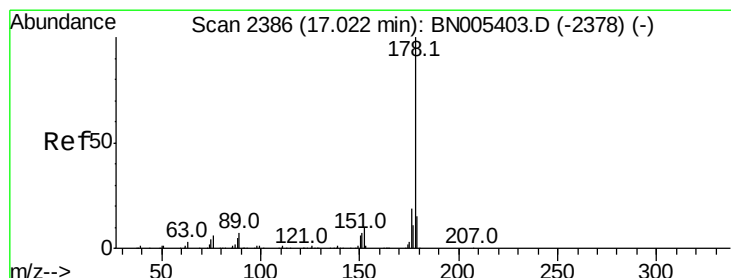
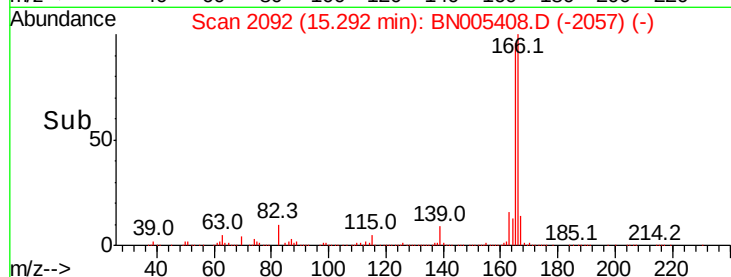
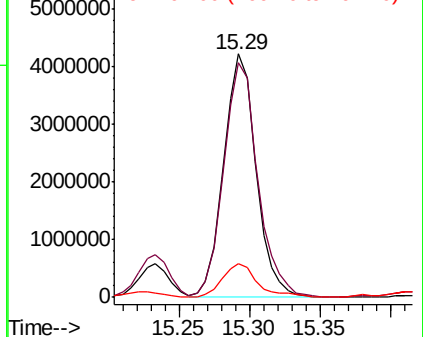
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Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 192.246 ng/ul m

RT: 17.03 min Scan# 2388

Delta R.T. 0.01 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

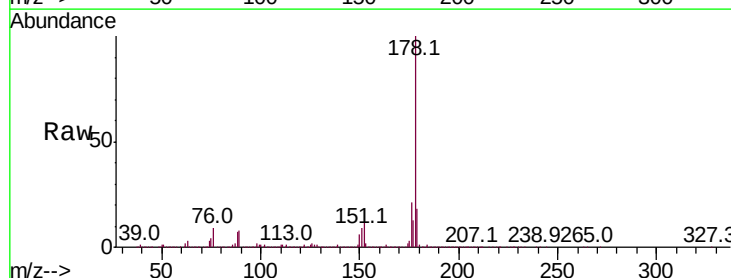
Tgt Ion:178 Resp:20068436

Ion Ratio Lower Upper

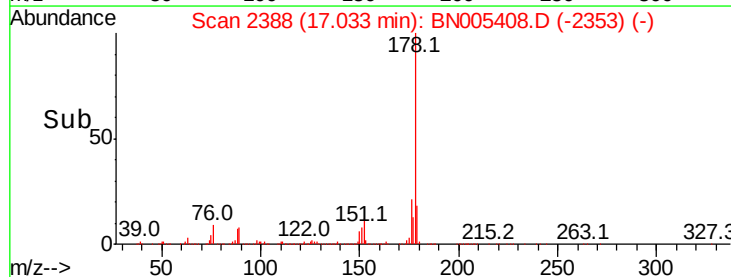
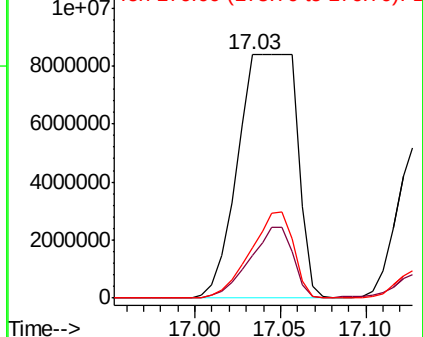
178 100

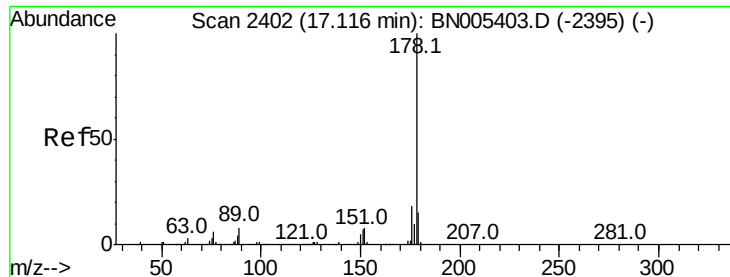
179 17.7 12.2 18.4

176 20.6 15.1 22.7



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 67.421 ng/ul

RT: 17.13 min Scan# 2404

Delta R.T. 0.01 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

Instrument :

BNA_N

ClientSampleId :

GAHS3ME

Tot Ion:178 Resp: 7169631

Ion Ratio Lower Upper

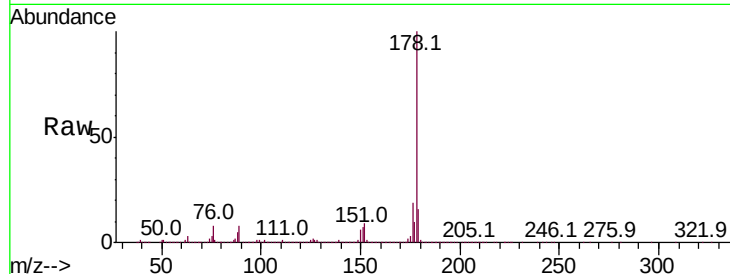
178 100

179 16.0 12.3 18.5

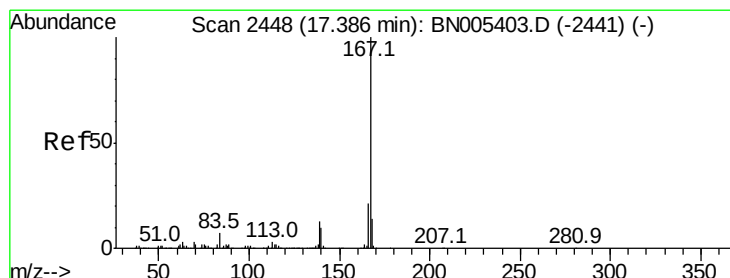
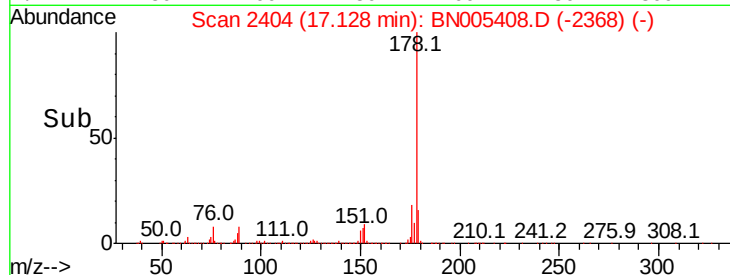
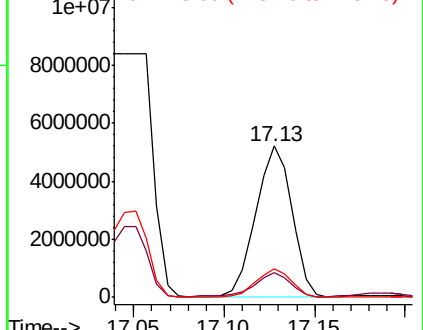
176 18.5 15.1 22.7

Manual Integrations
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Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E



#74

Carbazole

Concen: 2.283 ng/ul

RT: 17.39 min Scan# 2449

Delta R.T. 0.00 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

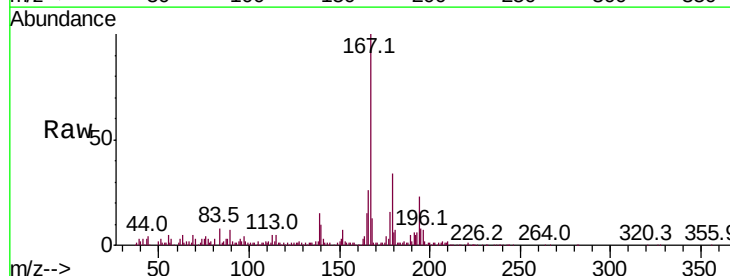
Tgt Ion:167 Resp: 208526

Ion Ratio Lower Upper

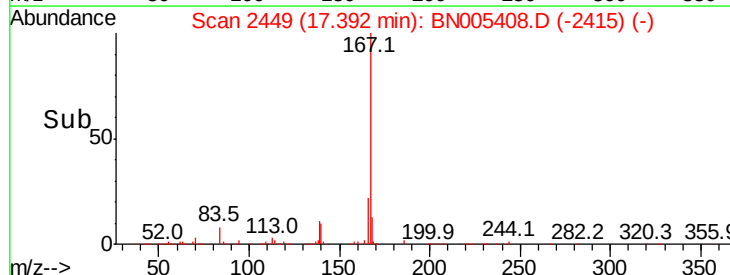
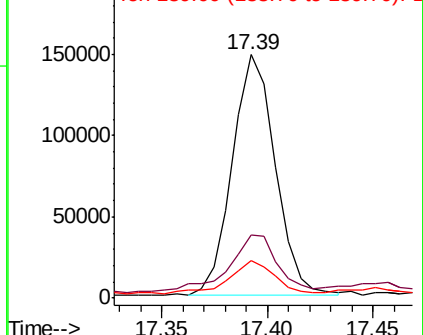
167 100

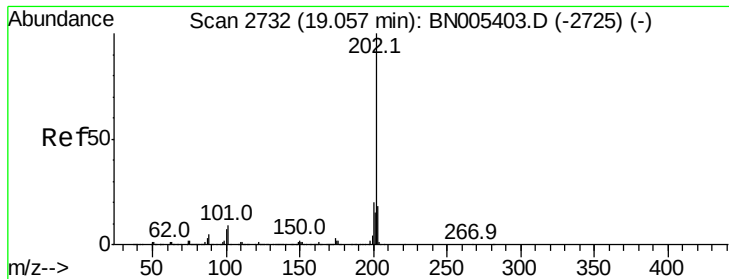
166 25.9 17.2 25.8#

139 15.2 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





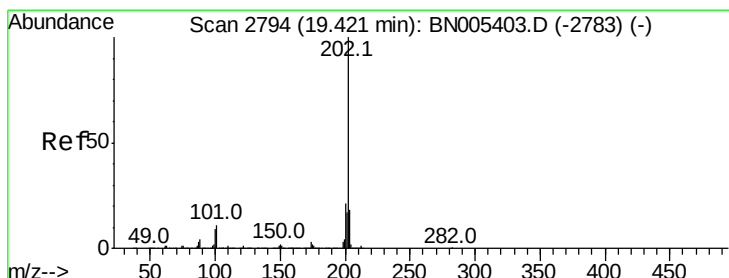
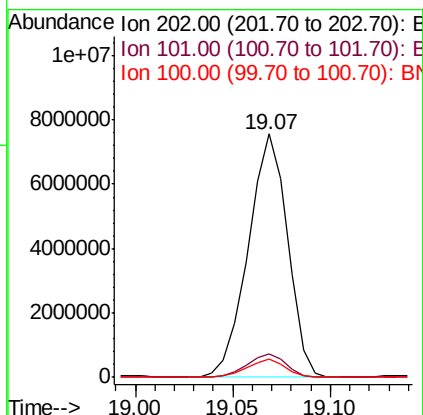
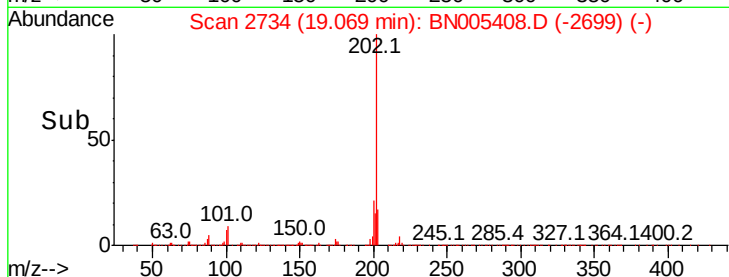
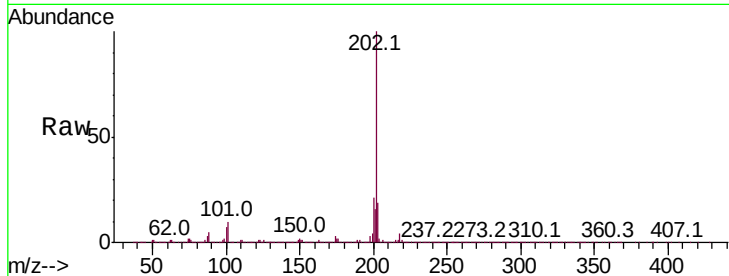
#76
Fluoranthene
Concen: 91.141 ng/ul
RT: 19.07 min Scan# 2734
Delta R.T. 0.01 min
Lab File: BN005408.D
Acq: 01 May 2019 13:37

Instrument :
BNA_N
ClientSampleId :
GAHS3ME

Tot Ion:202 Resp:10553011
Ion Ratio Lower Upper
202 100
101 9.8 8.6 12.8
100 7.3 6.3 9.5

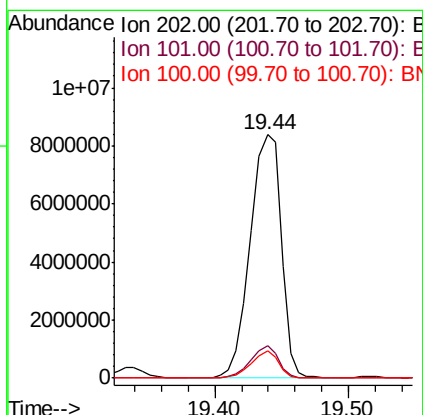
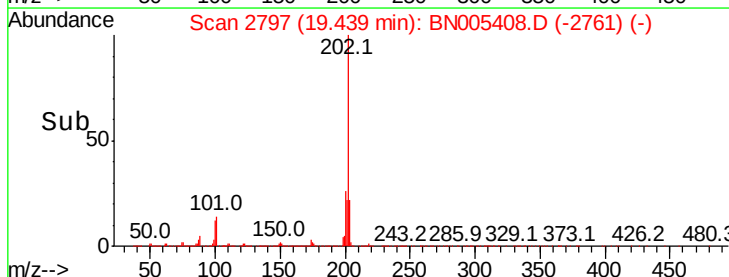
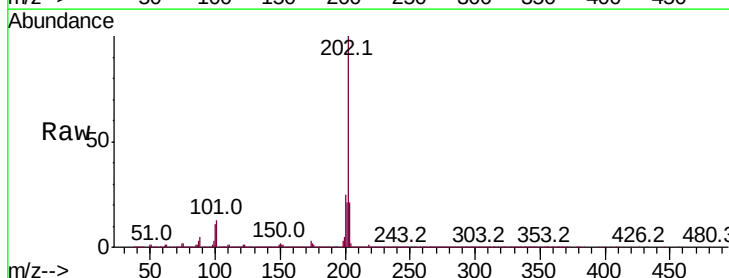
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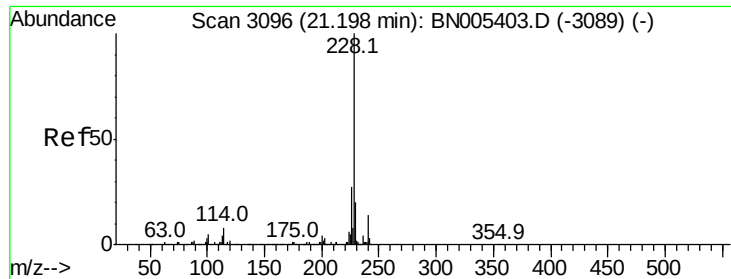
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#79
Pyrene
Concen: 144.439 ng/ul
RT: 19.44 min Scan# 2797
Delta R.T. 0.01 min
Lab File: BN005408.D
Acq: 01 May 2019 13:37

Tgt Ion:202 Resp:13446053
Ion Ratio Lower Upper
202 100
101 13.2 10.3 15.5
100 11.0 7.9 11.9





#82

Benzo(a)anthracene

Concen: 52.595 ng/ul m

RT: 21.20 min Scan# 3097

Delta R.T. -0.01 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

Instrument :

BNA_N

ClientSampleId :

GAHS3ME

Tot Ion:228 Resp: 4730672

Ion Ratio Lower Upper

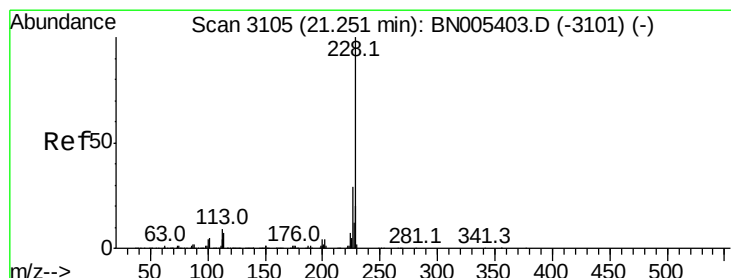
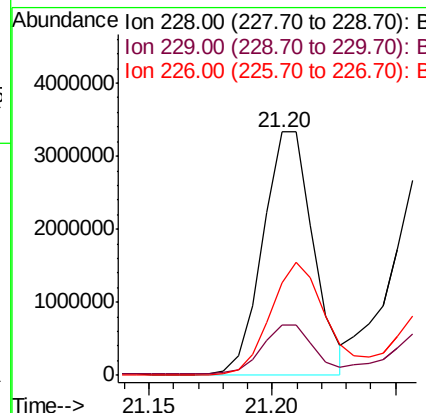
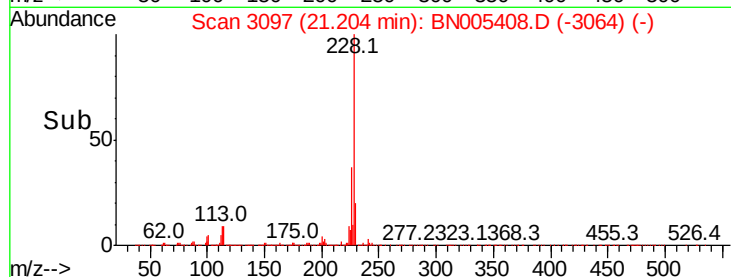
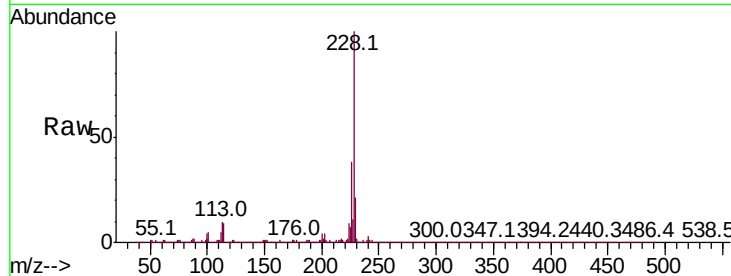
228 100

229 20.8 15.8 23.6

226 37.8 21.4 32.2#

Manual Integrations
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#84

Chrysene

Concen: 47.914 ng/ul

RT: 21.26 min Scan# 3107

Delta R.T. 0.00 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

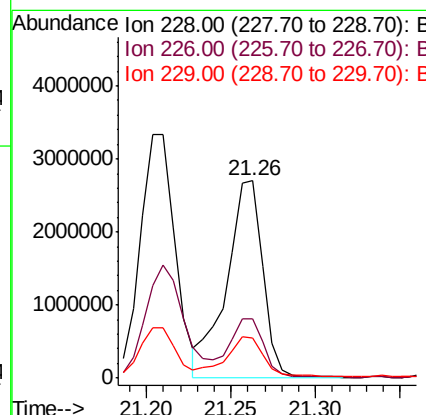
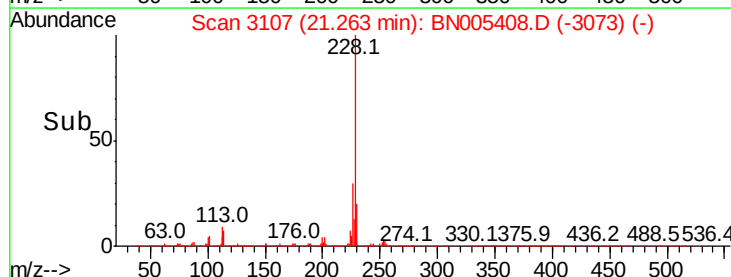
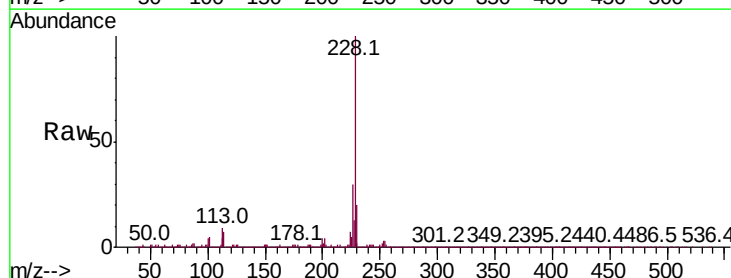
Tgt Ion:228 Resp: 3999750

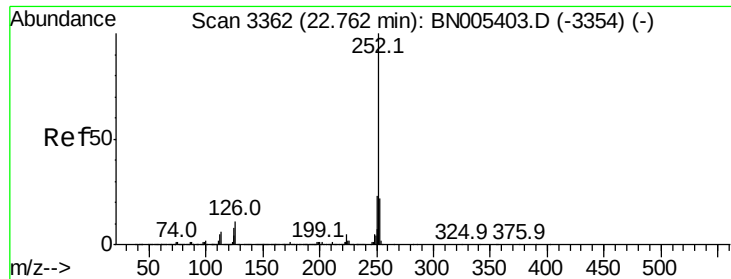
Ion Ratio Lower Upper

228 100

226 30.3 24.0 36.0

229 20.5 15.4 23.0





#87

Benzo(b)fluoranthene

Concen: 36.024 ng/ul

RT: 22.78 min Scan# 3365

Delta R.T. -0.01 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

Instrument :

BNA_N

ClientSampleId :

GAHS3ME

Tot Ion:252 Resp: 3008374

Ion Ratio Lower Upper

252 100

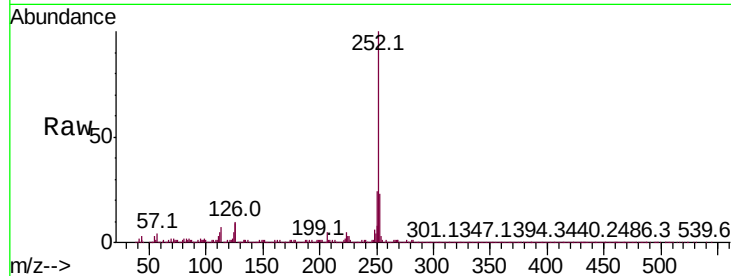
253 22.6 17.7 26.5

125 9.4 8.4 12.6

Manual Integrations
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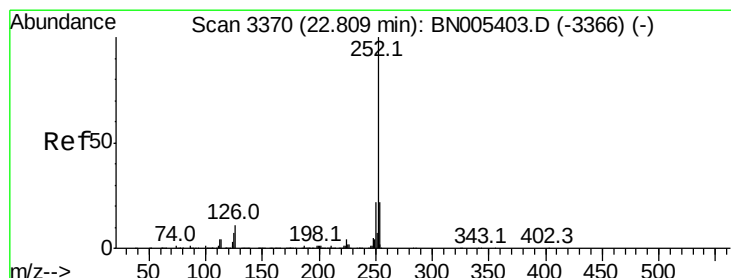
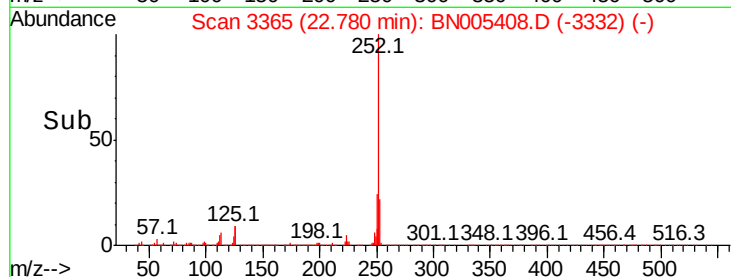
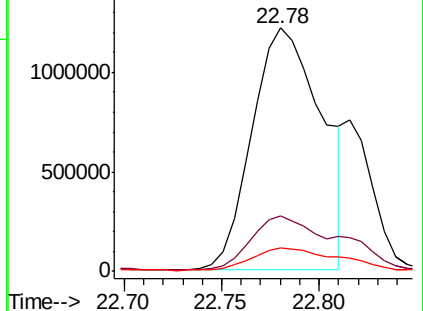
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Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 9.291 ng/ul m

RT: 22.82 min Scan# 3371

Delta R.T. -0.01 min

Lab File: BN005408.D

Acq: 01 May 2019 13:37

Tgt Ion:252 Resp: 741040

Ion Ratio Lower Upper

252 100

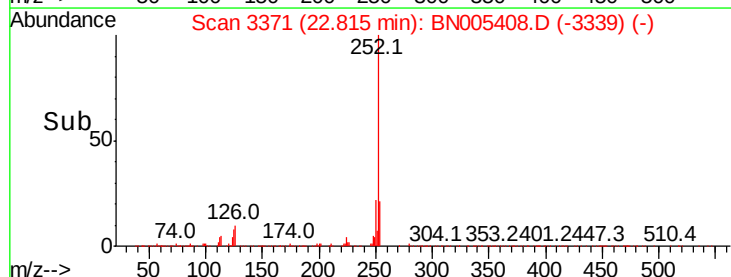
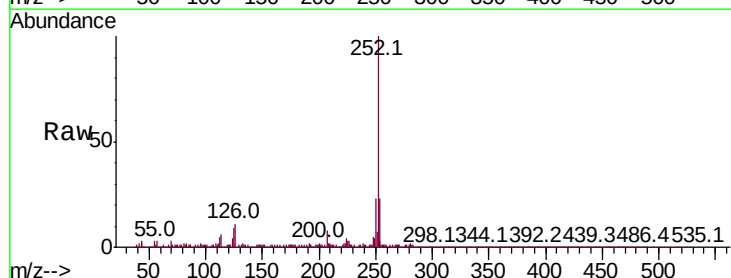
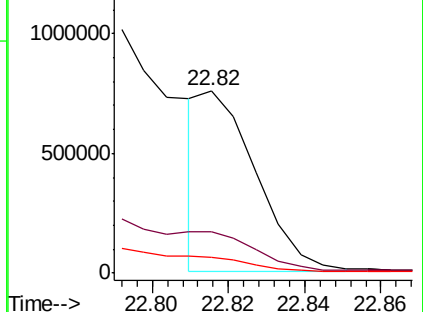
253 22.5 17.4 26.0

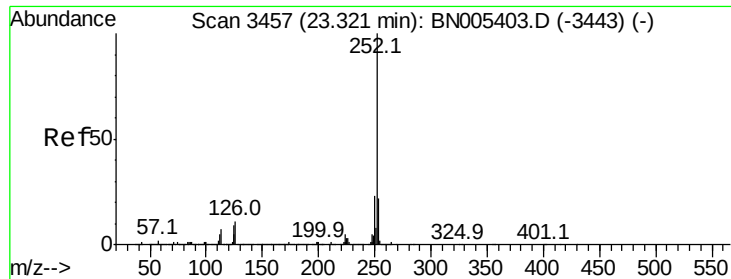
125 8.6 7.5 11.3

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





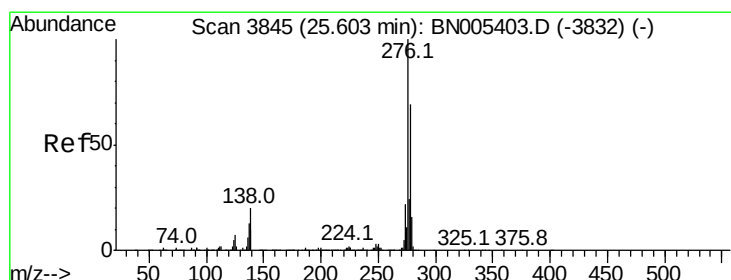
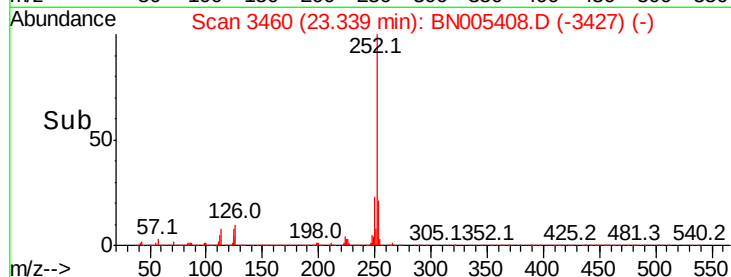
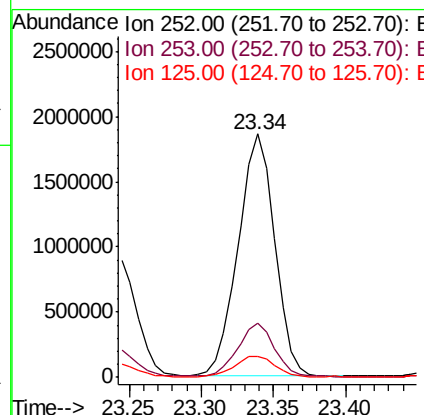
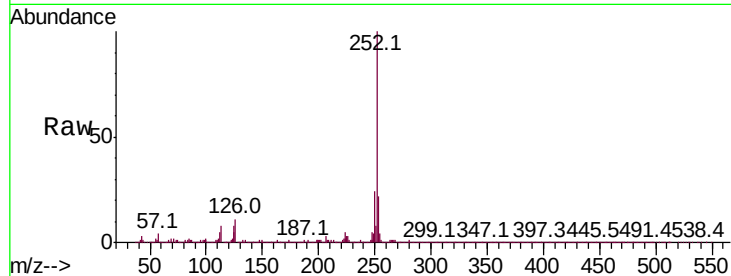
#90
Benzo(a)pyrene
Concen: 41.658 ng/ul m
RT: 23.34 min Scan# 3460
Delta R.T. -0.01 min
Lab File: BN005408.D
Acq: 01 May 2019 13:37

Instrument :
BNA_N
ClientSampled :
GAHS3ME

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.3	25.9
125	8.4	8.6	13.0#

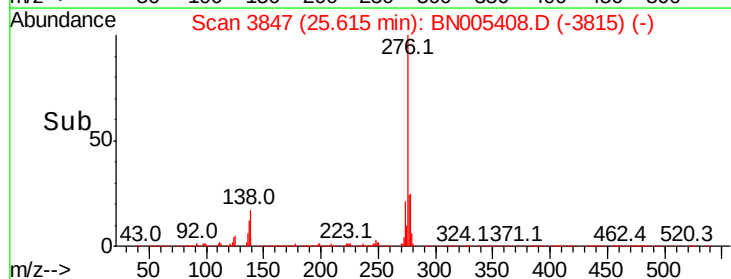
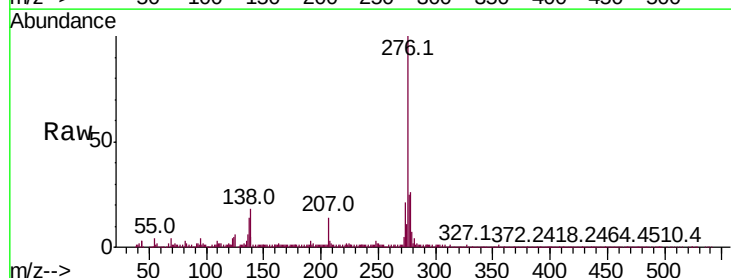
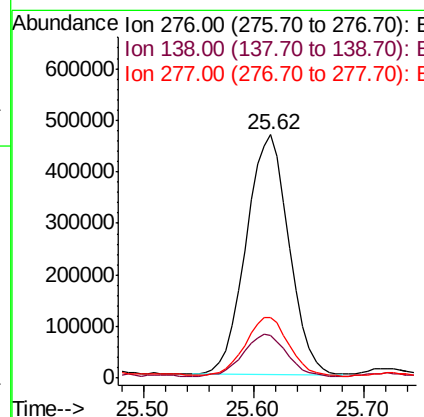
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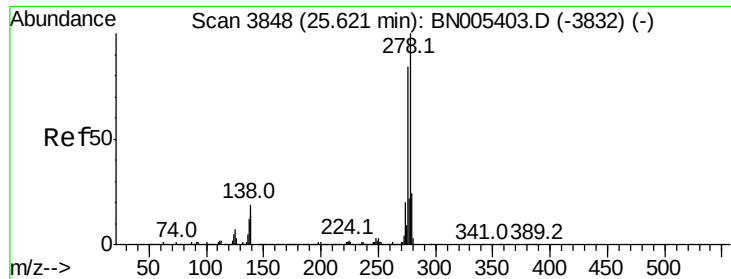
Sohil
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#91
Indeno(1,2,3-cd)pyrene
Concen: 14.589 ng/ul
RT: 25.62 min Scan# 3847
Delta R.T. -0.01 min
Lab File: BN005408.D
Acq: 01 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.6	17.9	26.9#
277	24.8	19.7	29.5





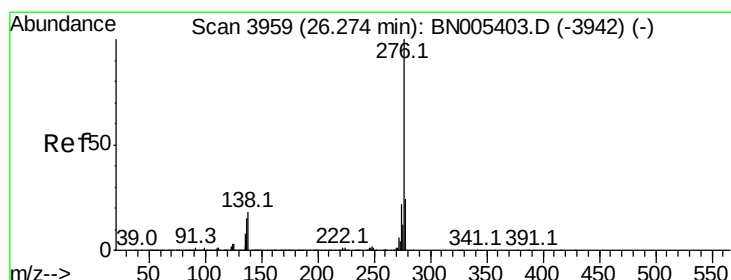
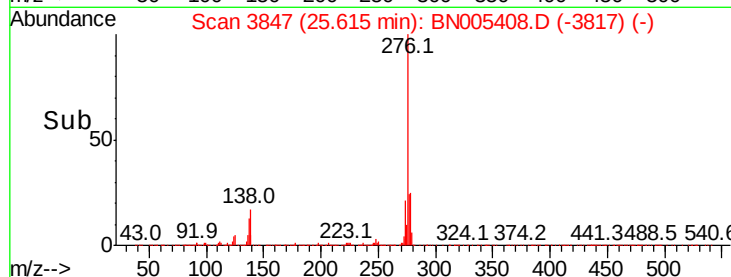
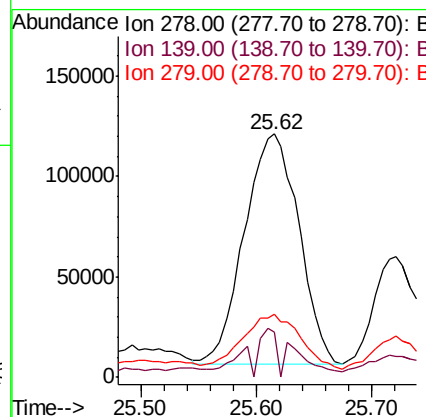
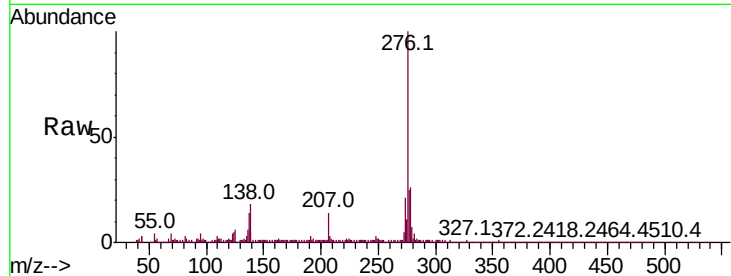
#92
Dibenzo(a,h)anthracene
Concen: 5.101 ng/ul
RT: 25.62 min Scan# 3847
Delta R.T. -0.02 min
Lab File: BN005408.D
Acq: 01 May 2019 13:37

Instrument :
BNA_N
ClientSampleId :
GAHS3ME

Tot Ion	Ratio	Lower	Upper
278	100		
139	18.4	13.1	19.7
279	25.8	19.4	29.0

Manual Integrations
APPROVED

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5/2/2019 4:57:13 PM



#93
Benzo(g,h,i)perylene
Concen: 14.845 ng/ul
RT: 26.28 min Scan# 3960
Delta R.T. -0.01 min
Lab File: BN005408.D
Acq: 01 May 2019 13:37

Tgt Ion	Ratio	Lower	Upper
276	100		
138	17.9	16.7	25.1
277	24.9	18.2	27.2

