

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN020620\
 Data File : BN009619.D
 Acq On : 06 Feb 2020 20:59
 Operator : CG/JU
 Sample : L1324-08
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: Feb 07 02:07:21 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN020320MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Mon Feb 03 16:39:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.43	152	171356	20.00	ng/ul	-0.01
18) Naphthalene-d8	10.19	136	698337	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.07	164	439009	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.83	188	881571	20.00	ng/ul	0.00
77) Chrysene-d12	21.05	240	871095	20.00	ng/ul	0.00
85) Perylene-d12	23.16	264	976895	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.08	96	9152	2.19	ng/uL	0.00
5) Phenol-d5	6.63	99	170747	11.42	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.79	67	131915	13.14	ng/ul	0.00
9) 2-Chlorophenol-d4	6.98	132	140361	12.76	ng/ul	-0.01
13) 4-Methylphenol-d8	8.15	113	78424	6.59	ng/ul	-0.01
19) Nitrobenzene-d5	8.58	128	75991	14.63	ng/ul	-0.01
22) 2-Nitrophenol-d4	9.29	143	78261	13.50	ng/ul	-0.01
26) 2,4-Dichlorophenol-d3	9.82	165	127175	11.71	ng/ul	0.00
29) 4-Chloroaniline-d4	10.31	131	484872	41.54	ng/ul	-0.03
43) Dimethylphthalate-d6	13.50	166	434408	13.55	ng/ul	0.00
46) Acenaphthylene-d8	13.76	160	538641	13.91	ng/ul	0.00
51) 4-Nitrophenol-d4	14.31	143	55554	9.18	ng/ul	0.00
57) Fluorene-d10	15.08	176	400406	14.21	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.23	200	56594	10.28	ng/ul	0.00
70) Anthracene-d10	16.93	188	609660	15.22	ng/ul	0.00
78) Pyrene-d10	19.23	212	691433	15.10	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.03	264	731976	15.22	ng/ul	0.00

Target Compounds

					Ovalue
4) Benzaldehyde	6.60	77	28198	2.750	ng/ul# 1
14) Acetophenone	8.23	105	48634	2.554	ng/ul# 34
17) Hexachloroethane	8.46	117	17747	3.431	ng/ul# 8
21) Isophorone	9.12	82	31479	1.173	ng/ul# 1
28) Naphthalene	10.24	128	5132827	135.537	ng/ul 99
32) Caprolactam	11.13	113	24953	6.756	ng/ul# 1
34) 2-Methylnaphthalene	11.87	142	6556208	247.385	ng/ul 98
40) 1,1'-Biophenyl	12.90	154	214800	6.284	ng/ul 90
44) Dimethylphthalate	13.55	163	59597	1.752	ng/ul# 93
47) Acenaphthylene	13.79	152	473861	11.182	ng/ul# 90
49) Acenaphthene	14.15	153	2346100	81.439	ng/ul 97
58) Fluorene	15.13	166	1339394	39.951	ng/ul 99
64) N-Nitrosodiphenylamine	15.22	169	91040	3.455	ng/ul 98
69) Phenanthrene	16.88	178	5785814	115.083	ng/ul 98
71) Anthracene	16.96	178	1447679	28.379	ng/ul 99
74) Carbazole	17.24	167	60004	1.351	ng/ul# 69
76) Fluoranthene	18.90	202	1799964	31.369	ng/ul 100
79) Pyrene	19.27	202	3416164	53.722	ng/ul 98
82) Benzo(a)anthracene	21.08	228	920320	15.302	ng/ul 92
84) Chrysene	21.08	228	921889	15.397	ng/ul 97
87) Benzo(b)fluoranthene	22.54	252	778211	12.733	ng/ul 98
88) Benzo(k)fluoranthene	22.54	252	778211	12.929	ng/ul 98
90) Benzo(a)pyrene	23.07	252	690478	12.193	ng/ul 97

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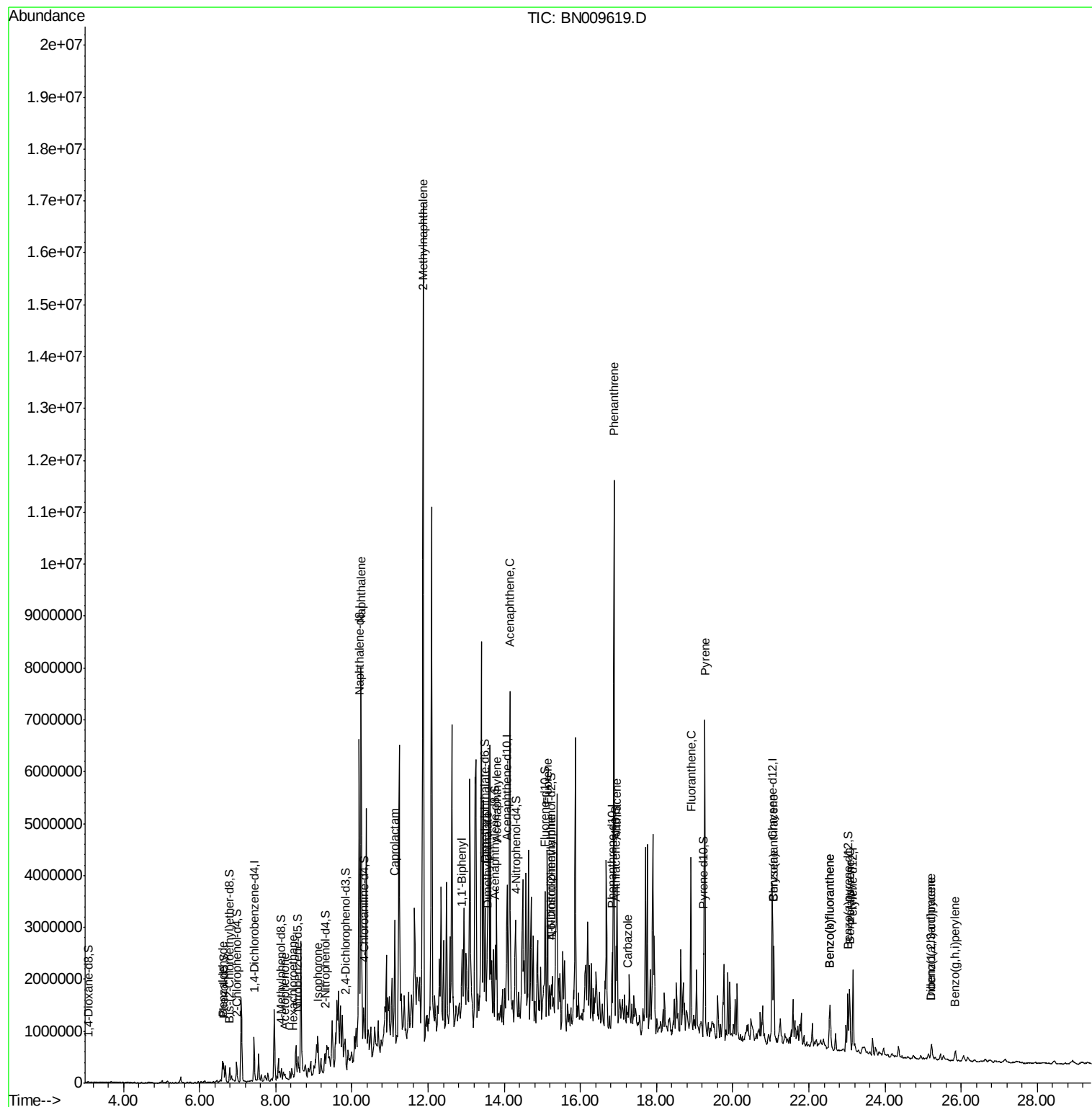
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Indeno(1,2,3-cd)pyrene	25.22	276	224793	3.339	ng/ul	97
92) Dibenzo(a,h)anthracene	25.22	278	83679	1.477	ng/ul#	88
93) Benzo(q,h,i)perylene	25.84	276	202105	3.582	ng/ul#	95

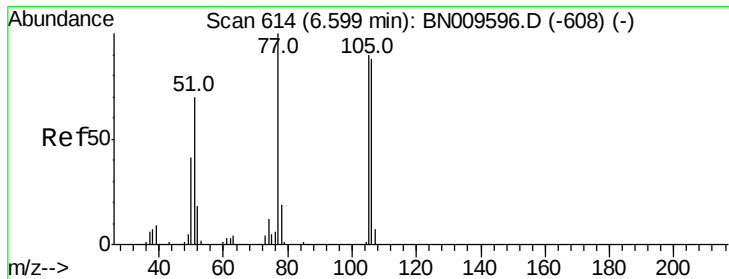
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 2.750 ng/ul

RT: 6.60 min Scan# 615

Delta R.T. 0.00 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Instrument :

BNA_N

ClientSampleId :

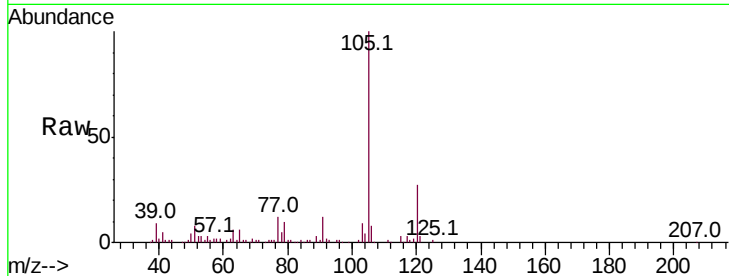
Tot Ion: 77 Resp: 28198

Ion Ratio Lower Upper

77 100

105 810.6 74.5 111.7#

106 67.7 70.8 106.2#



Abundance Ion 77.00 (76.70 to 77.70): BN009619.D (-608) (-)

Ion 105.00 (104.70 to 105.70): BN009619.D (-608) (-)

Ion 106.00 (105.70 to 106.70): BN009619.D (-608) (-)

200000

150000

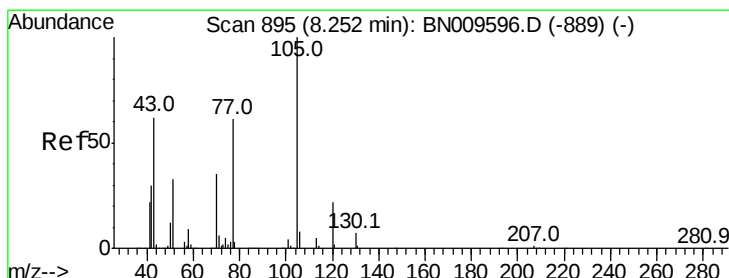
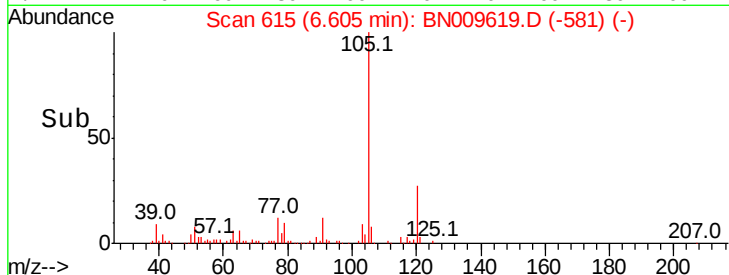
100000

50000

0

6.55 6.60 6.65

Time-->



#14

Acetophenone

Concen: 2.554 ng/ul

RT: 8.23 min Scan# 891

Delta R.T. -0.03 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

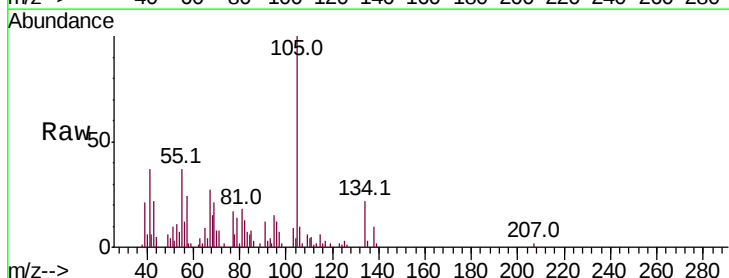
Tgt Ion: 105 Resp: 48634

Ion Ratio Lower Upper

105 100

77 17.2 67.7 101.5#

51 10.4 34.3 51.5#



Abundance Ion 105.00 (104.70 to 105.70): BN009619.D (-889) (-)

Ion 77.00 (76.70 to 77.70): BN009619.D (-889) (-)

Ion 51.00 (50.70 to 51.70): BN009619.D (-889) (-)

30000

25000

20000

15000

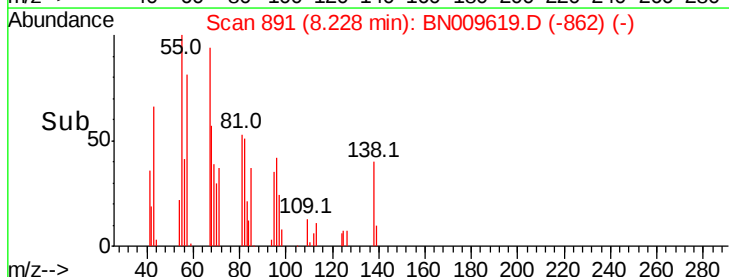
10000

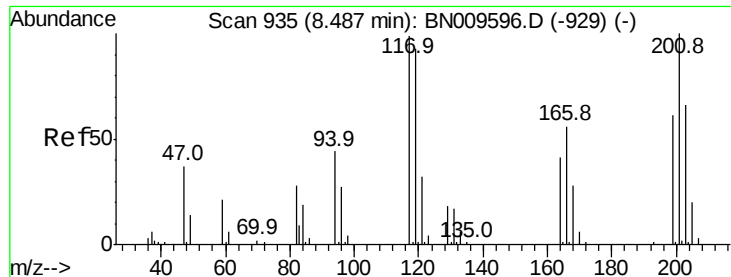
5000

0

8.15 8.20 8.25 8.30 8.35

Time-->

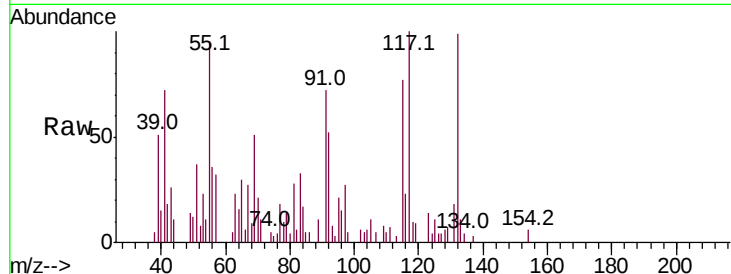




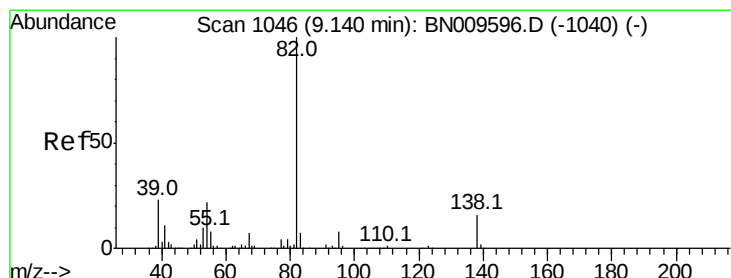
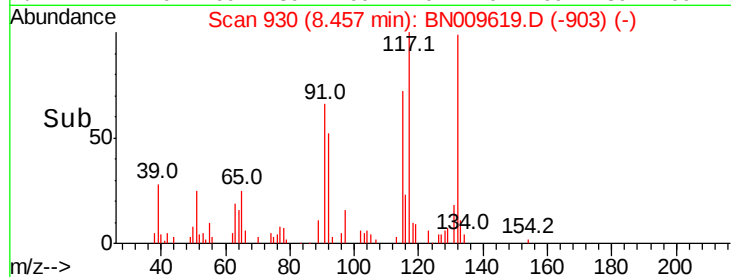
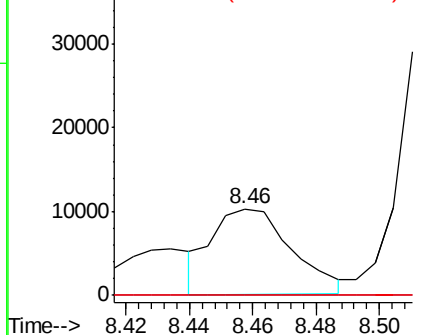
#17
Hexachloroethane
Concen: 3.431 ng/ul
RT: 8.46 min Scan# 930
Delta R.T. -0.04 min
Lab File: BN009619.D
Acq: 06 Feb 2020 20:59

Instrument :
BNA_N
ClientSampled :

Tot Ion:117 Resp: 17747
Ion Ratio Lower Upper
117 100
201 0.0 78.8 118.2#
199 0.0 49.0 73.4#

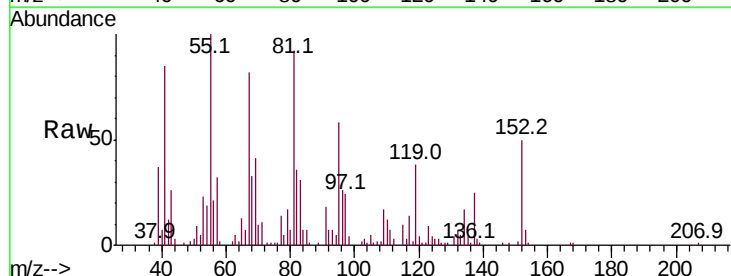


Abundance Ion 117.00 (116.70 to 117.70): E
Ion 201.00 (200.70 to 201.70): E
Ion 199.00 (198.70 to 199.70): E

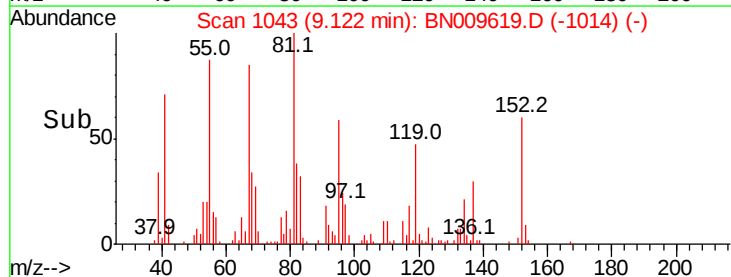
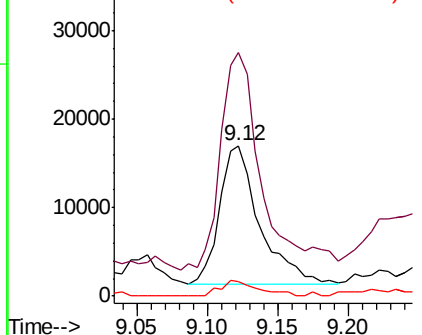


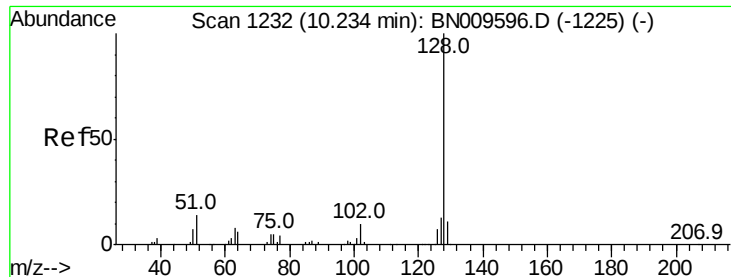
#21
Isophorone
Concen: 1.173 ng/ul
RT: 9.12 min Scan# 1043
Delta R.T. -0.03 min
Lab File: BN009619.D
Acq: 06 Feb 2020 20:59

Tgt Ion: 82 Resp: 31479
Ion Ratio Lower Upper
82 100
95 161.8 6.2 9.4#
138 9.5 12.8 19.2#



Abundance Ion 82.00 (81.70 to 82.70): BNC
Ion 95.00 (94.70 to 95.70): BNC
Ion 138.00 (137.70 to 138.70): E





#28

Naphthalene

Concen: 135.537 ng/ul

RT: 10.24 min Scan# 1233

Delta R.T. -0.01 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Instrument :

BNA_N

ClientSampleId :

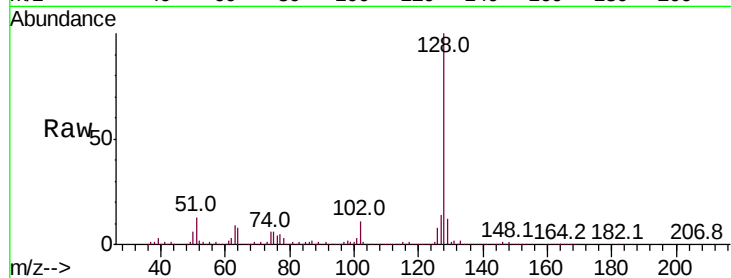
Tot Ion:128 Resp: 5132827

Ion Ratio Lower Upper

128 100

129 11.6 8.7 13.1

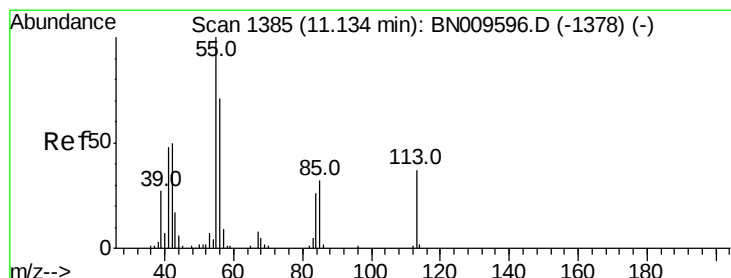
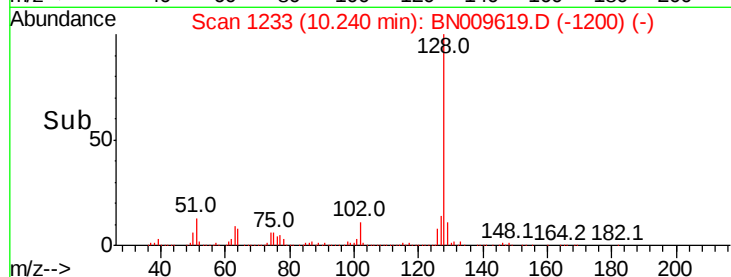
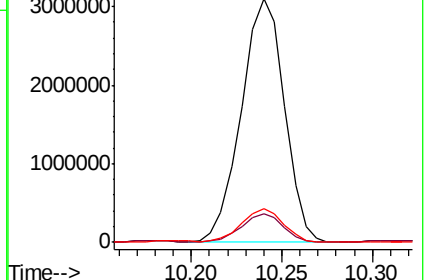
127 13.6 10.7 16.1



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



#32

Caprolactam

Concen: 6.756 ng/ul

RT: 11.13 min Scan# 1384

Delta R.T. -0.04 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

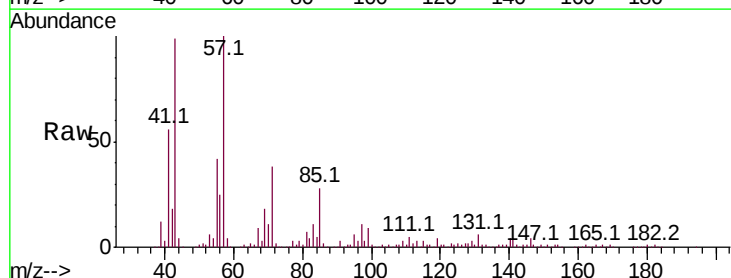
Tgt Ion:113 Resp: 24953

Ion Ratio Lower Upper

113 100

55 1200.6 207.0 310.6#

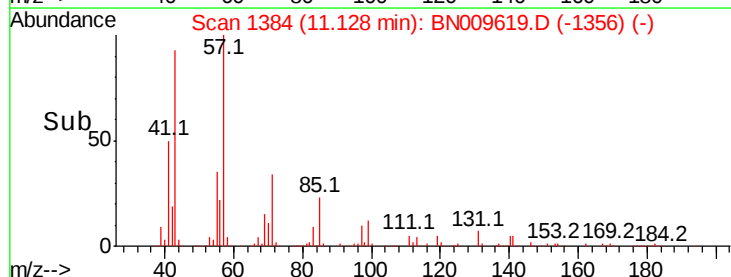
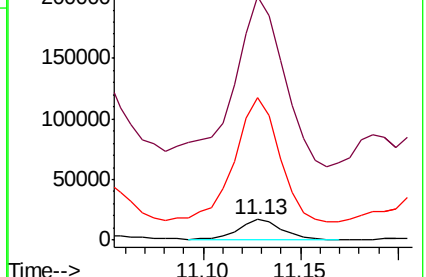
56 705.0 159.3 238.9#

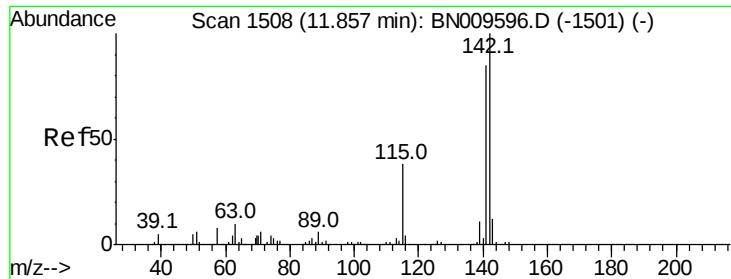


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNC

Ion 56.00 (55.70 to 56.70): BNC

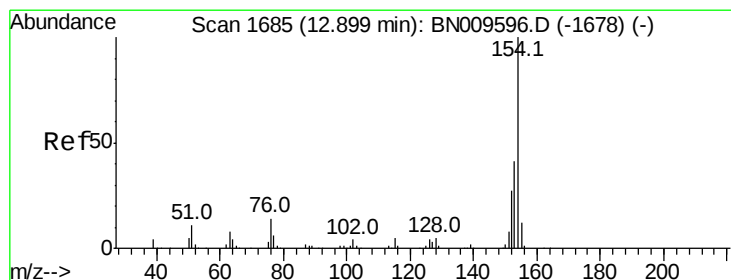
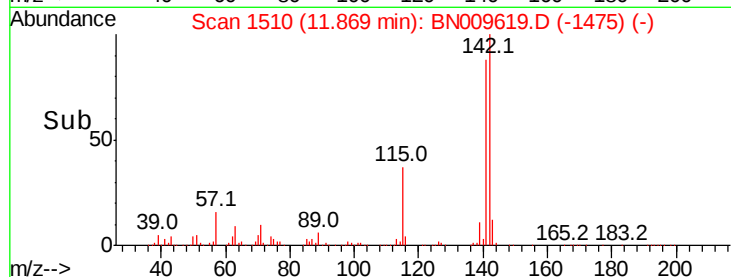
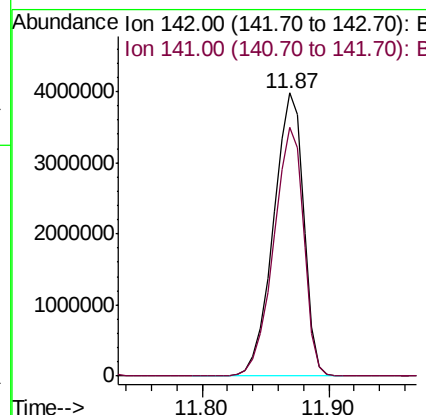
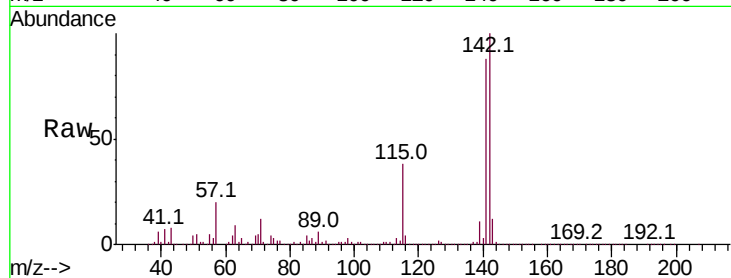




#34
 2-Methylnaphthalene
 Concen: 247.385 ng/ul
 RT: 11.87 min Scan# 1510
 Delta R.T. 0.01 min
 Lab File: BN009619.D
 Acq: 06 Feb 2020 20:59

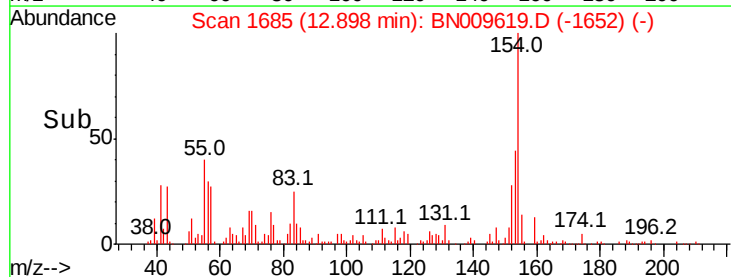
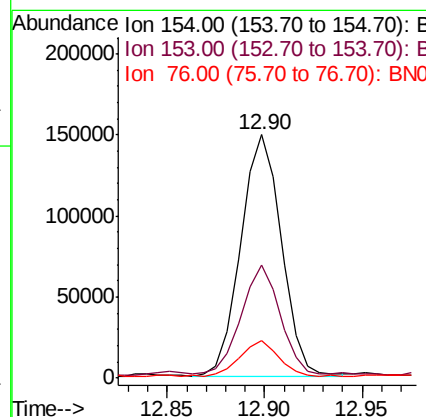
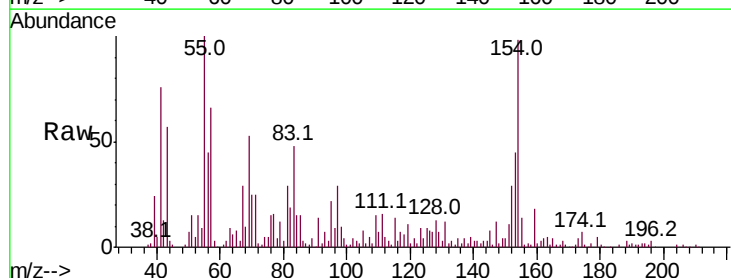
Instrument :
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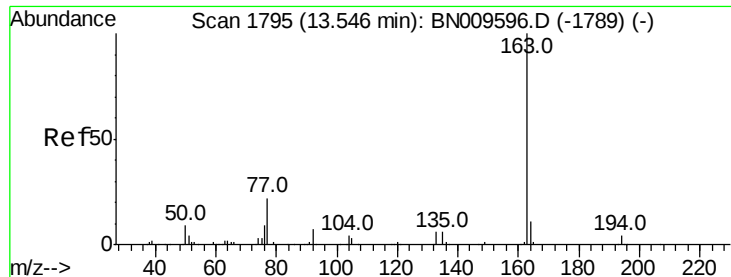
Tot Ion:142 Resp: 6556208
 Ion Ratio Lower Upper
 142 100
 141 88.0 71.5 107.3



#40
 1,1'-Biphenyl
 Concen: 6.284 ng/ul
 RT: 12.90 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: BN009619.D
 Acq: 06 Feb 2020 20:59

Tgt Ion:154 Resp: 214800
 Ion Ratio Lower Upper
 154 100
 153 46.4 31.2 46.8
 76 15.5 11.4 17.2





#44

Dimethylphthalate

Concen: 1.752 ng/ul

RT: 13.55 min Scan# 1795

Delta R.T. -0.01 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Instrument :

BNA_N

ClientSampleId :

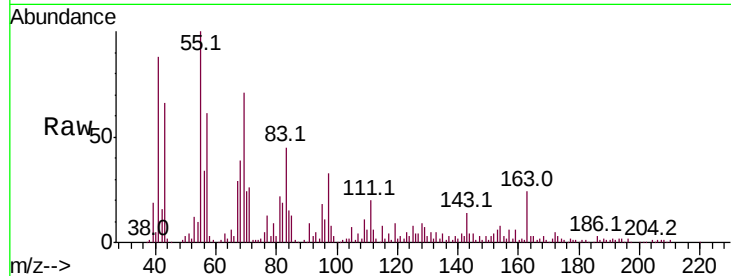
Tot Ion:163 Resp: 59597

Ion Ratio Lower Upper

163 100

194 8.1 3.5 5.3#

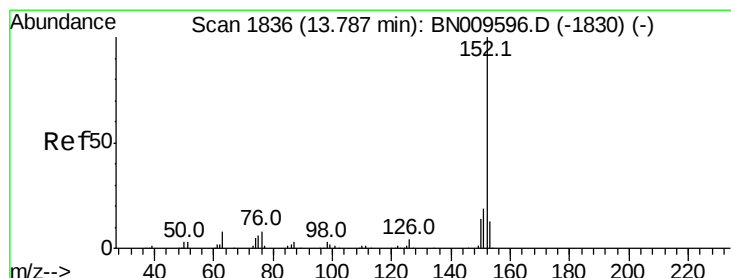
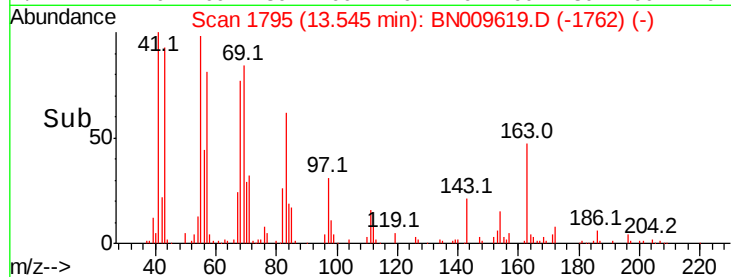
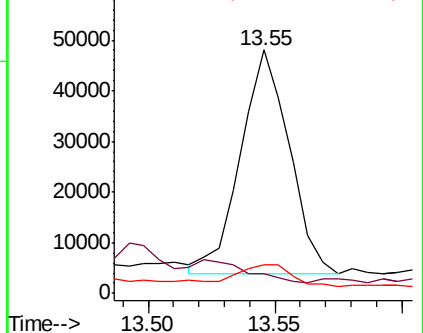
164 12.0 8.0 12.0



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 11.182 ng/ul

RT: 13.79 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

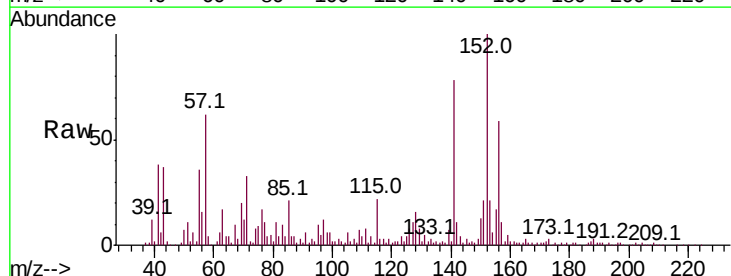
Tgt Ion:152 Resp: 473861

Ion Ratio Lower Upper

152 100

151 21.2 16.2 24.2

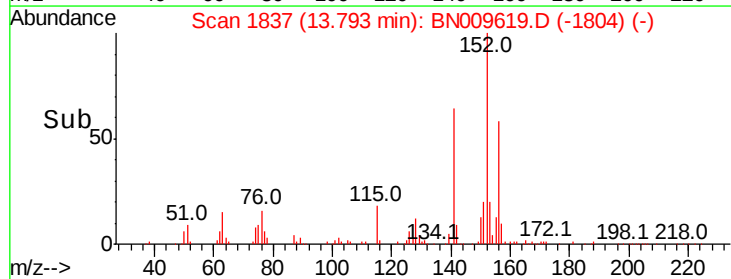
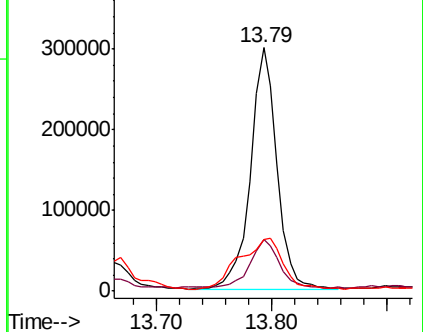
153 21.5 10.6 15.8#

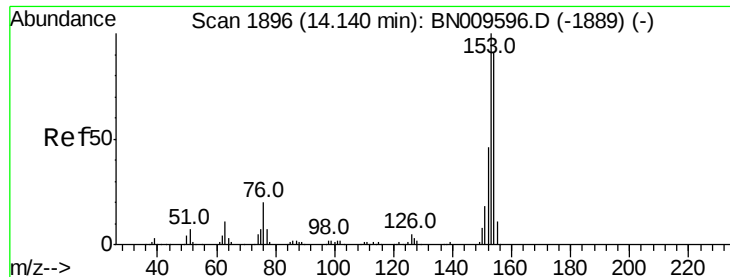


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 81.439 ng/ul

RT: 14.15 min Scan# 1897

Delta R.T. 0.00 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Instrument :

BNA_N

ClientSampleId :

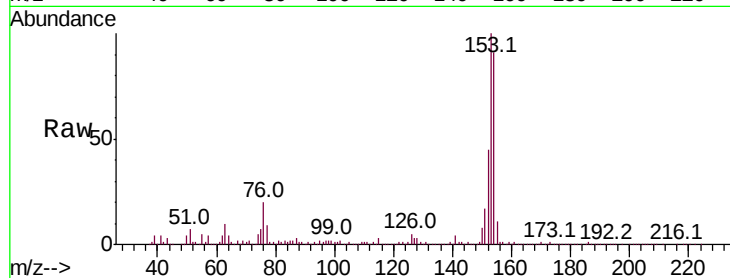
Tot Ion:153 Resp: 2346100

Ion Ratio Lower Upper

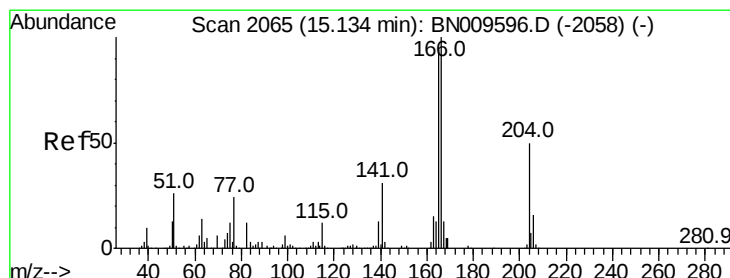
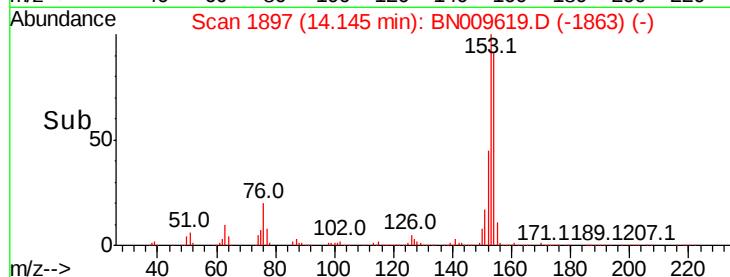
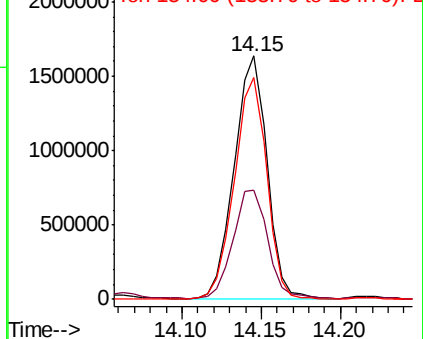
153 100

152 45.0 37.3 55.9

154 90.9 70.2 105.2



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



#58

Fluorene

Concen: 39.951 ng/ul

RT: 15.13 min Scan# 2065

Delta R.T. -0.01 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

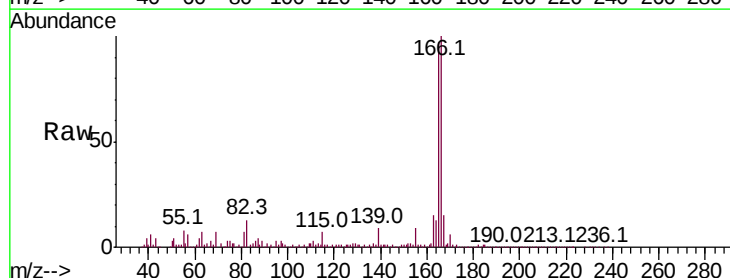
Tgt Ion:166 Resp: 1339394

Ion Ratio Lower Upper

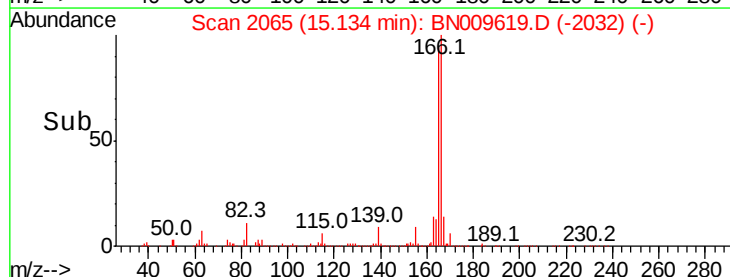
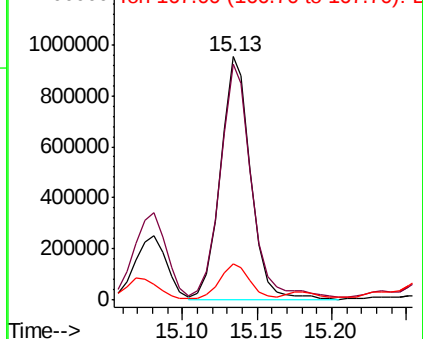
166 100

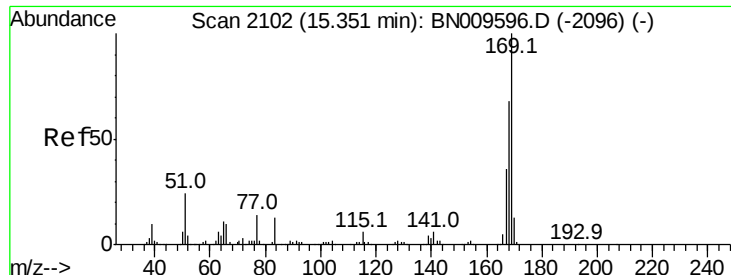
165 96.8 76.7 115.1

167 15.0 11.1 16.7



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

N-Nitrosodiphenylamine

Concen: 3.455 ng/ul

RT: 15.22 min Scan# 2080

Delta R.T. -0.14 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Instrument :

BNA_N

ClientSampled :

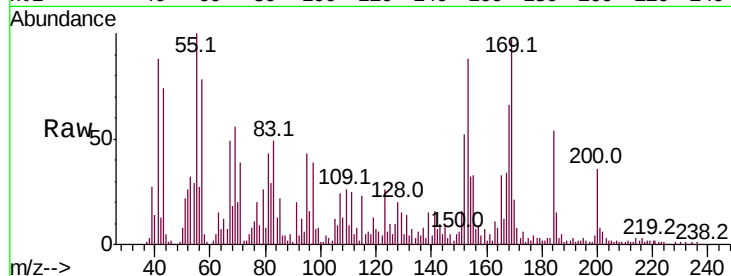
Tot Ion:169 Resp: 91040

Ion Ratio Lower Upper

169 100

168 68.9 53.8 80.8

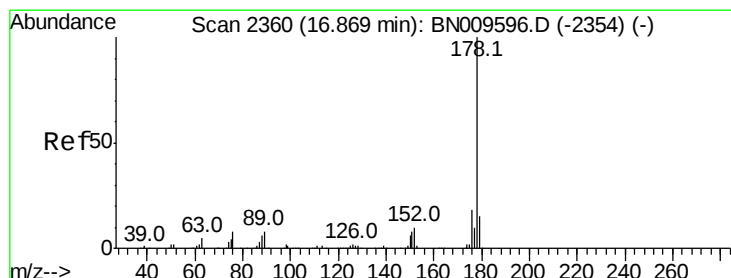
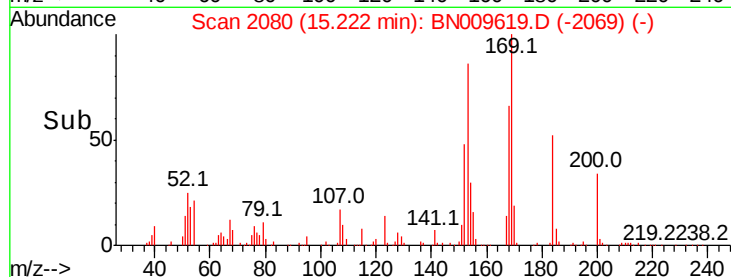
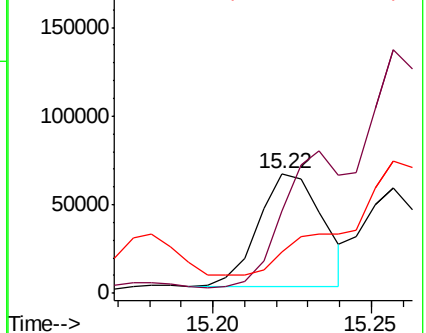
167 35.1 27.5 41.3



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 115.083 ng/ul

RT: 16.88 min Scan# 2362

Delta R.T. 0.01 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

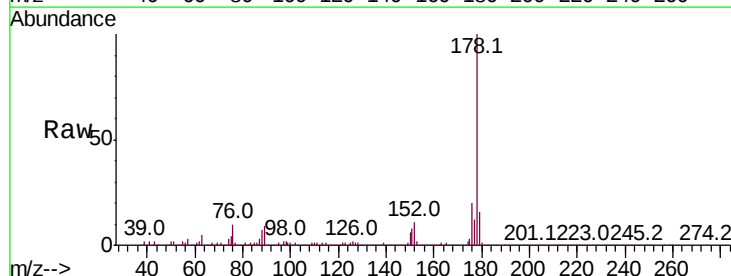
Tgt Ion:178 Resp: 5785814

Ion Ratio Lower Upper

178 100

179 16.1 12.2 18.2

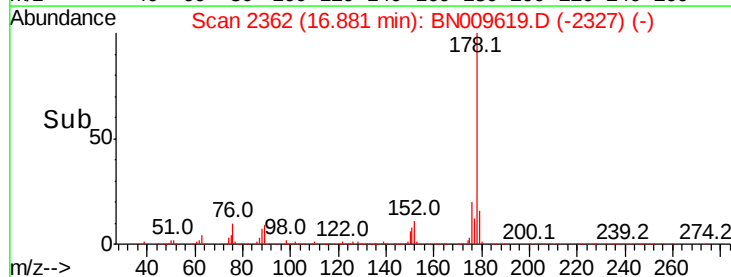
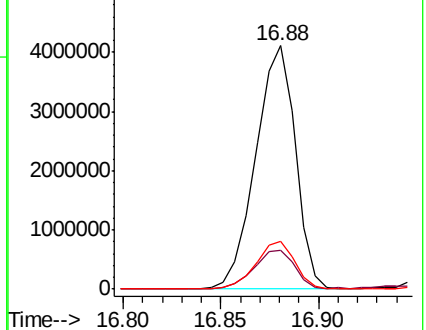
176 19.5 14.8 22.2

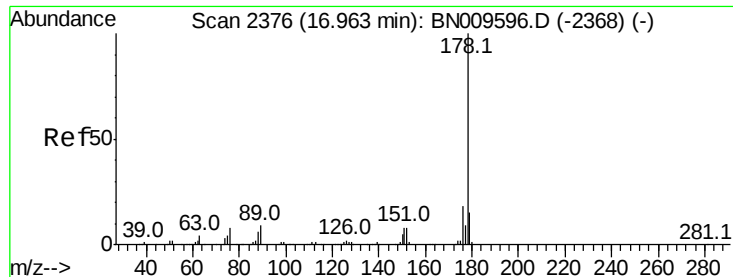


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#71

Anthracene

Concen: 28.379 ng/ul

RT: 16.96 min Scan# 2376

Delta R.T. -0.01 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

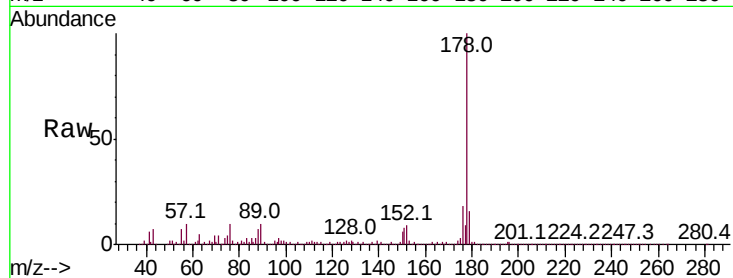
Instrument :

BNA_N

ClientSampleId :

Tot Ion:178 Resp: 1447679

Ion	Ratio	Lower	Upper
178	100		
179	15.8	12.1	18.1
176	17.7	14.6	21.8

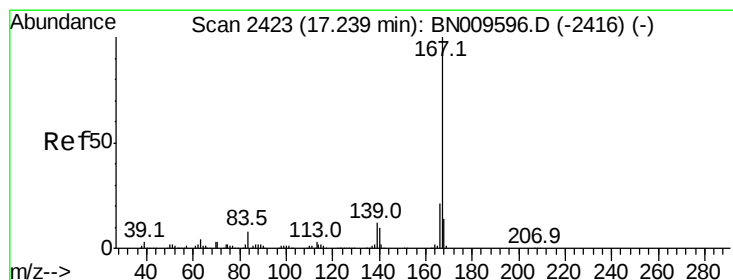
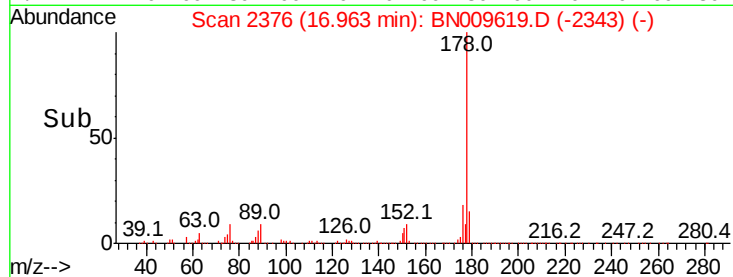
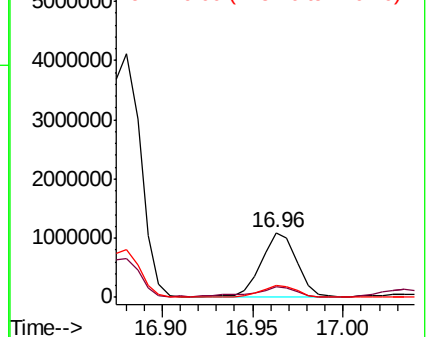


Abundance

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: 1.351 ng/ul

RT: 17.24 min Scan# 2423

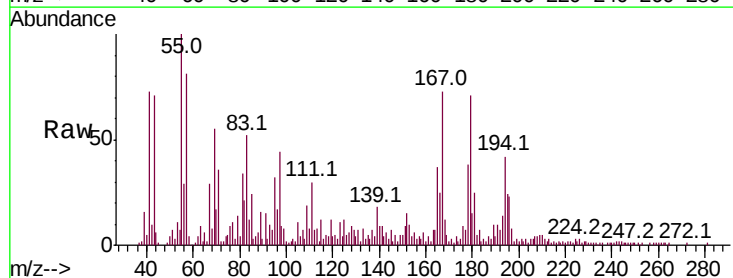
Delta R.T. -0.01 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Tgt Ion:167 Resp: 60004

Ion	Ratio	Lower	Upper
167	100		
166	34.6	16.2	24.4#
139	25.0	10.4	15.6#

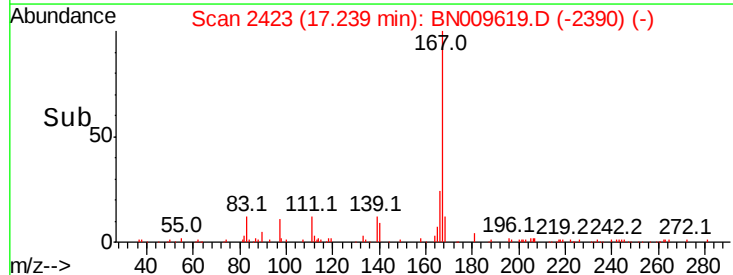
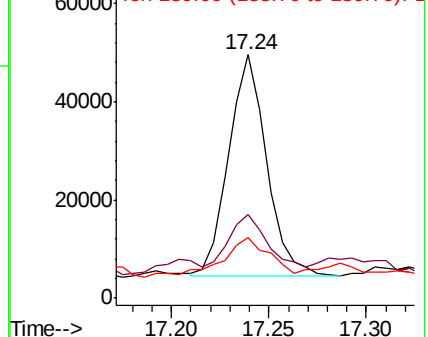


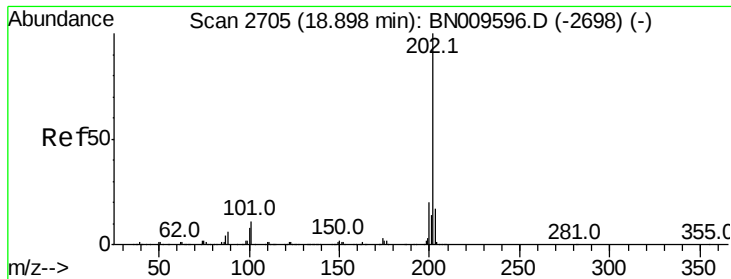
Abundance

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

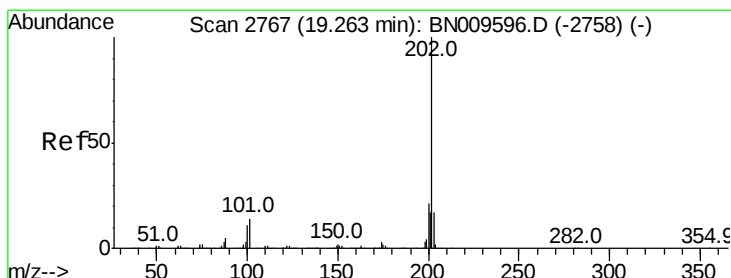
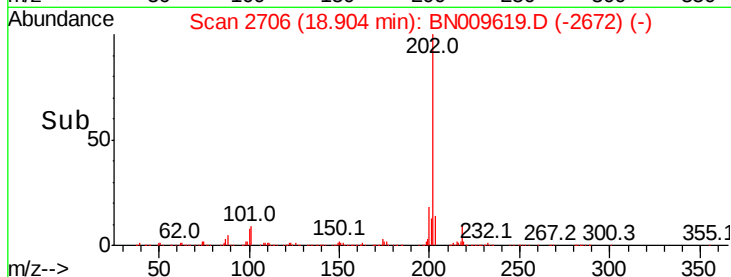
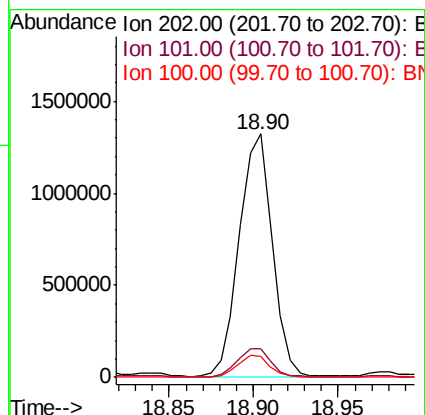
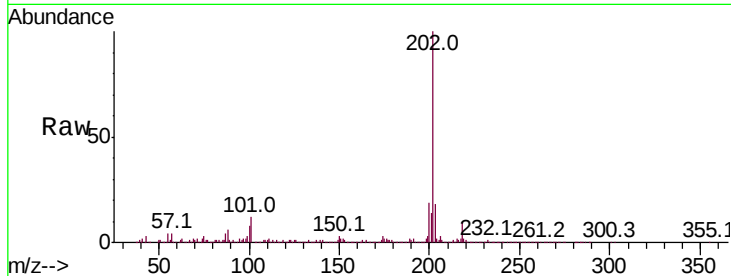




#76
Fluoranthene
Concen: 31.369 ng/ul
RT: 18.90 min Scan# 2706
Delta R.T. 0.00 min
Lab File: BN009619.D
Acq: 06 Feb 2020 20:59

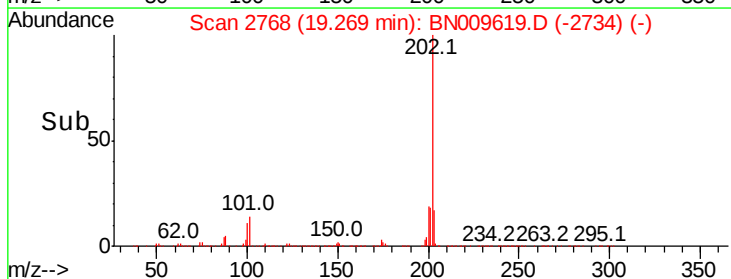
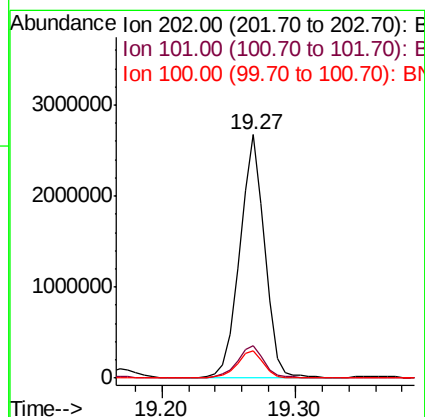
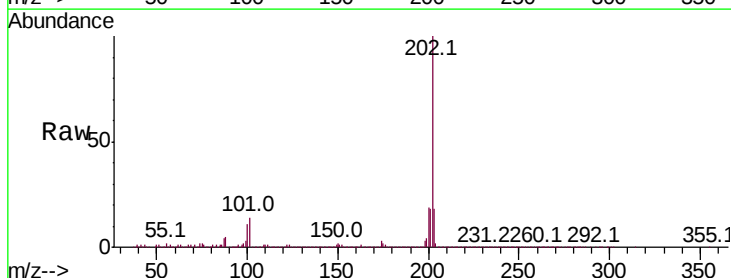
Instrument :
BNA_N
ClientSampleId :

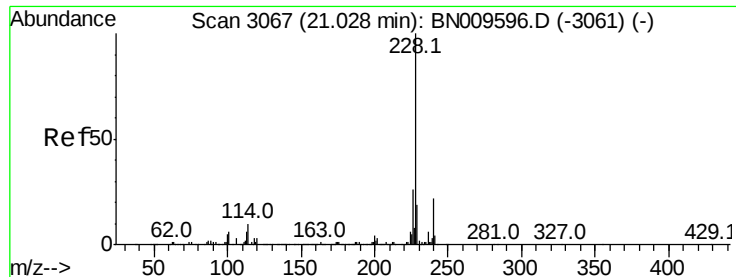
Tot Ion:202 Resp: 1799964
Ion Ratio Lower Upper
202 100
101 11.6 9.2 13.8
100 8.4 6.9 10.3



#79
Pyrene
Concen: 53.722 ng/ul
RT: 19.27 min Scan# 2768
Delta R.T. 0.00 min
Lab File: BN009619.D
Acq: 06 Feb 2020 20:59

Tgt Ion:202 Resp: 3416164
Ion Ratio Lower Upper
202 100
101 13.5 10.3 15.5
100 11.1 8.4 12.6





#82

Benzo(a)anthracene

Concen: 15.302 ng/ul

RT: 21.08 min Scan# 3076

Delta R.T. 0.05 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Instrument :

BNA_N

ClientSampleId :

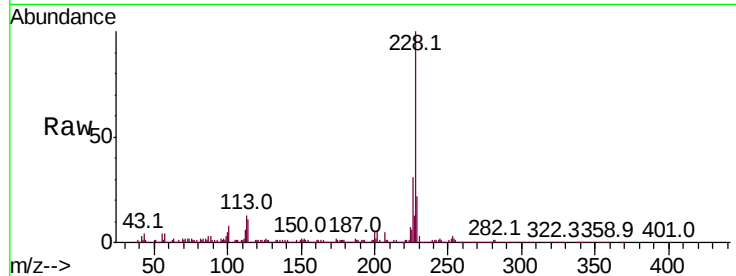
Tot Ion:228 Resp: 920320

Ion Ratio Lower Upper

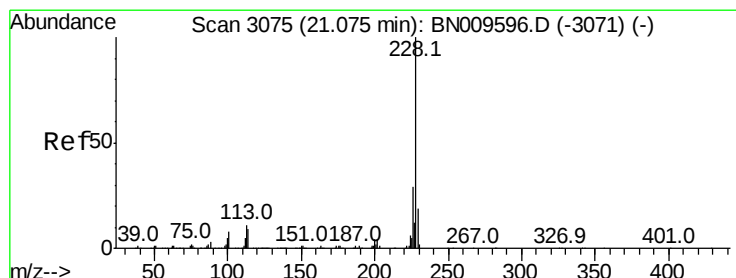
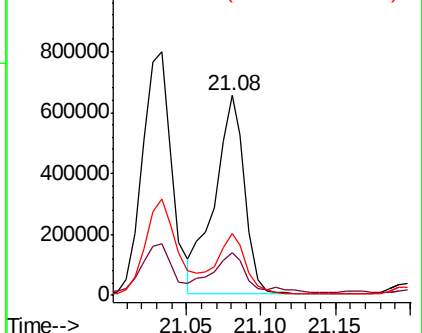
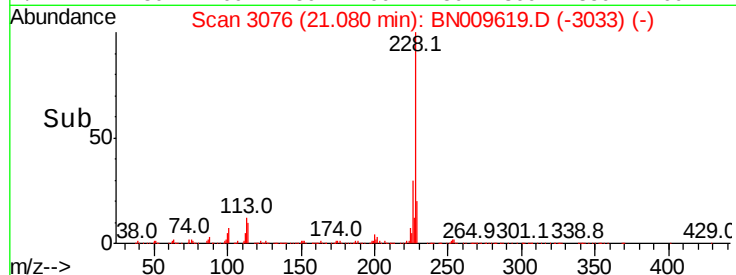
228 100

229 21.6 15.0 22.4

226 30.8 20.9 31.3



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



#84

Chrysene

Concen: 15.397 ng/ul

RT: 21.08 min Scan# 3076

Delta R.T. 0.00 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

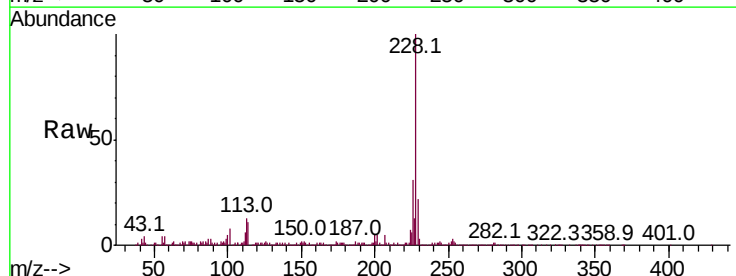
Tgt Ion:228 Resp: 921889

Ion Ratio Lower Upper

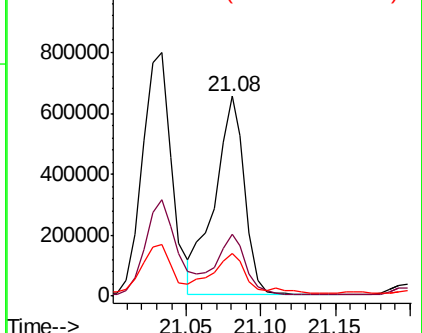
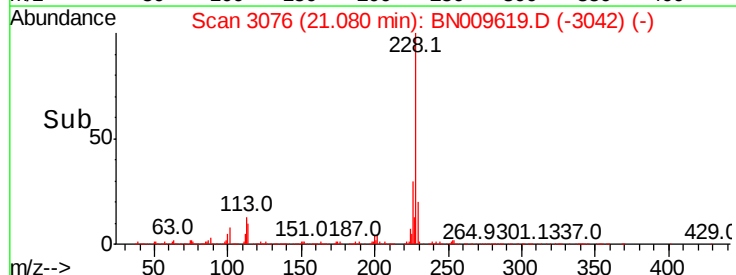
228 100

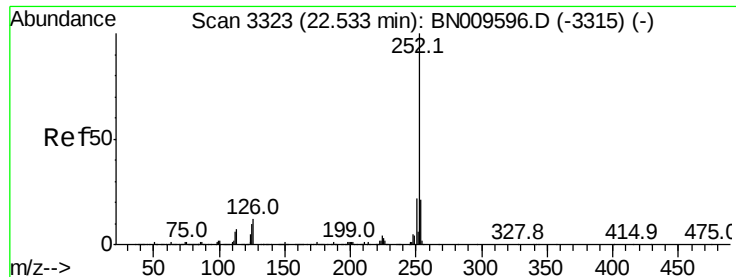
226 30.8 23.5 35.3

229 21.6 15.8 23.8



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





#87

Benzo(b)fluoranthene

Concen: 12.733 ng/ul

RT: 22.54 min Scan# 3324

Delta R.T. 0.01 min

Lab File: BN009619.D

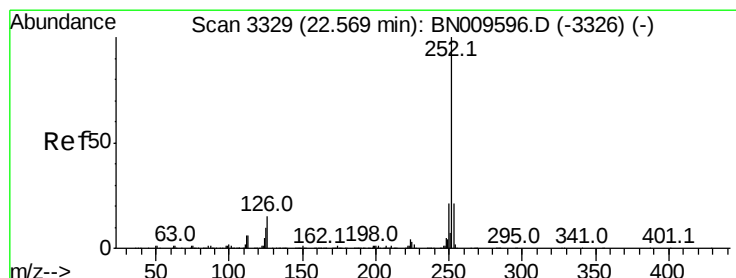
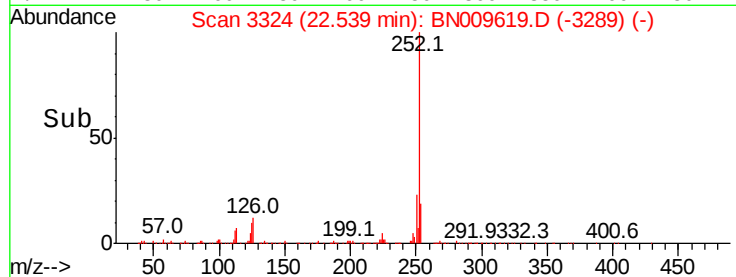
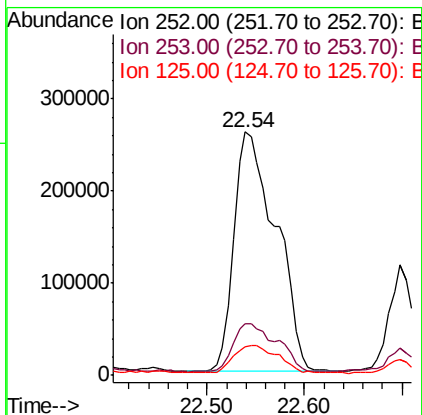
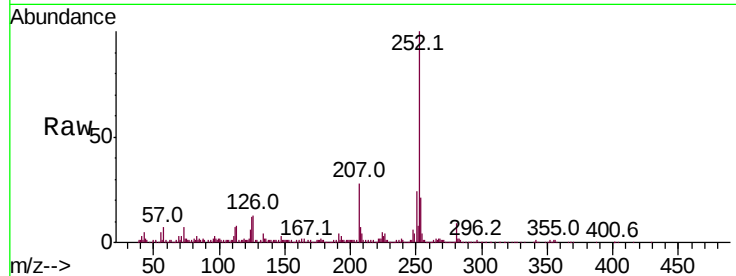
Acq: 06 Feb 2020 20:59

Instrument :

BNA_N

ClientSampleId :

Tot Ion:252	Resp:	778211
Ion Ratio	Lower	Upper
252	100	
253	21.4	17.0 25.6
125	11.8	8.2 12.2



#88

Benzo(k)fluoranthene

Concen: 12.929 ng/ul

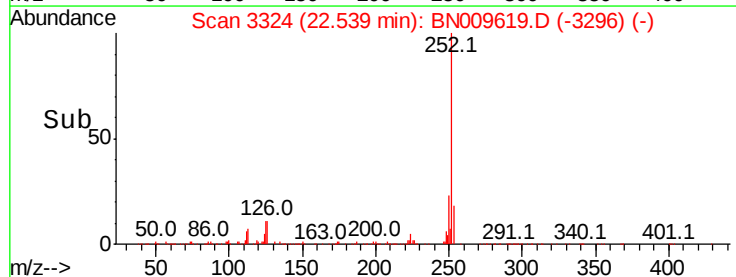
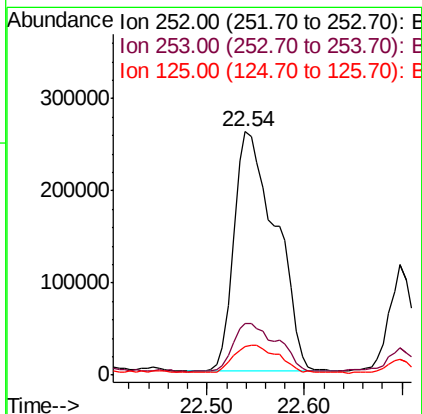
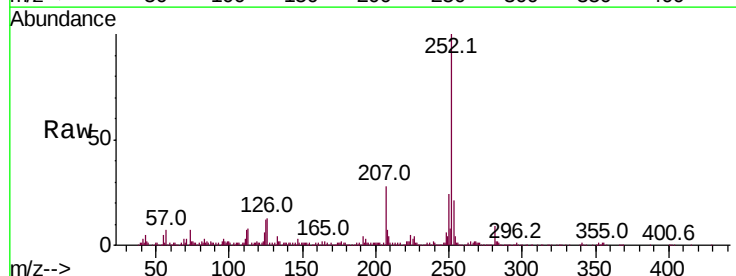
RT: 22.54 min Scan# 3324

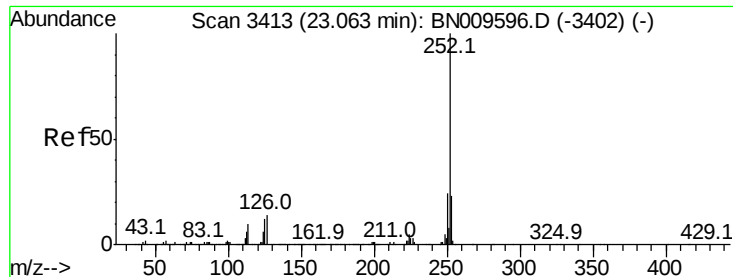
Delta R.T. -0.04 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Tgt Ion:252	Resp:	778211
Ion Ratio	Lower	Upper
252	100	
253	21.4	17.0 25.4
125	11.8	8.0 12.0

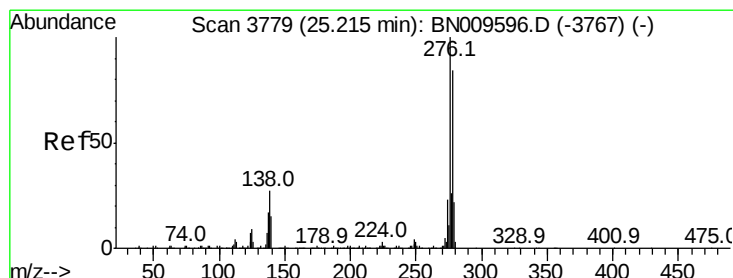
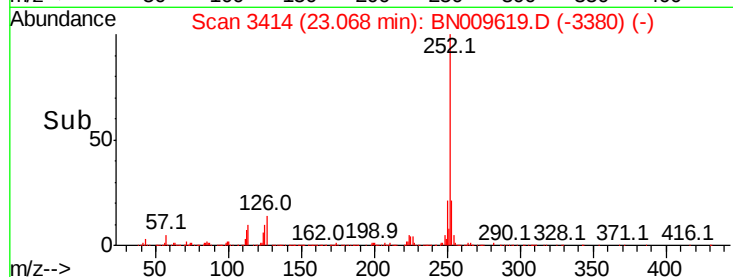
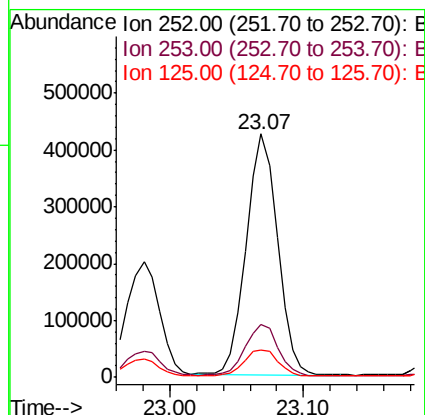
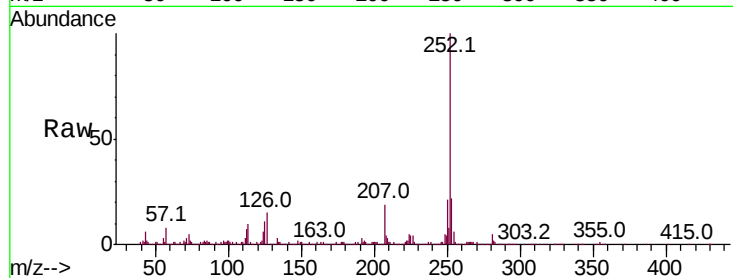




#90
Benzo(a)pyrene
Concen: 12.193 ng/ul
RT: 23.07 min Scan# 3414
Delta R.T. 0.00 min
Lab File: BN009619.D
Acq: 06 Feb 2020 20:59

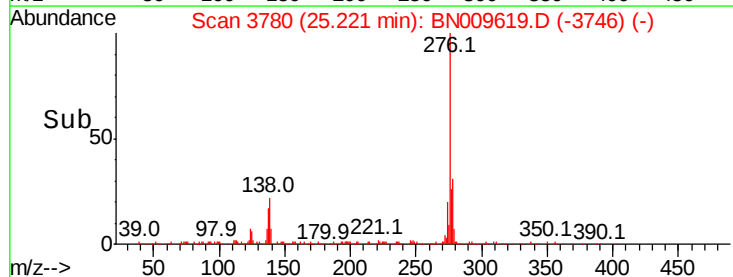
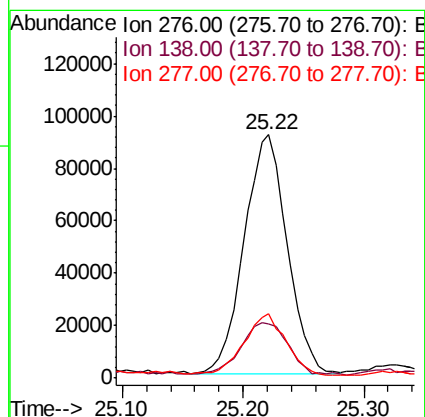
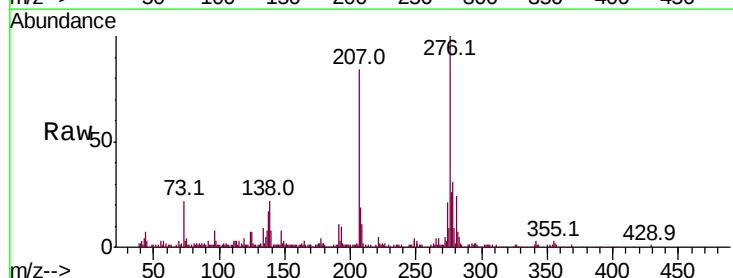
Instrument :
BNA_N
ClientSampleId :

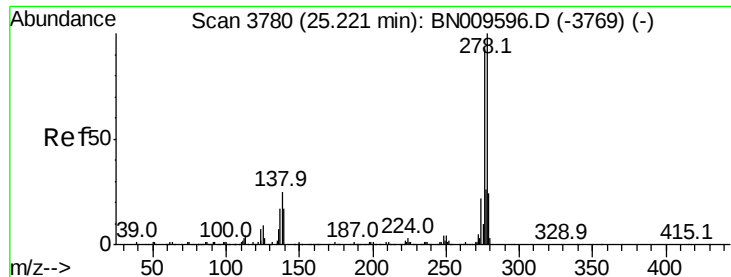
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.0	15.8	23.8
125	11.0	8.7	13.1



#91
Indeno(1,2,3-cd)pyrene
Concen: 3.339 ng/ul
RT: 25.22 min Scan# 3780
Delta R.T. 0.00 min
Lab File: BN009619.D
Acq: 06 Feb 2020 20:59

Tgt Ion	Ratio	Lower	Upper
276	100		
138	22.2	20.3	30.5
277	26.5	21.2	31.8





#92

Dibenzo(a,h)anthracene

Concen: 1.477 ng/ul

RT: 25.22 min Scan# 3779

Delta R.T. -0.02 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

Instrument :

BNA_N

ClientSampleId :

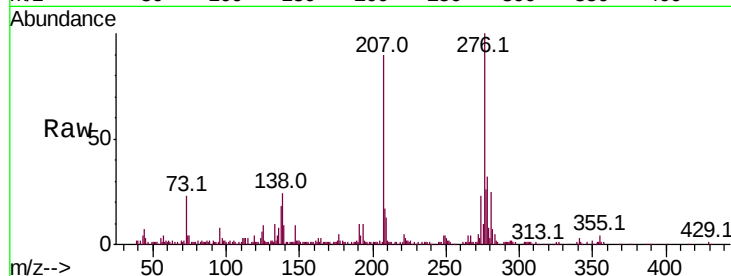
Tot Ion:278 Resp: 83679

Ion Ratio Lower Upper

278 100

139 28.1 12.7 19.1#

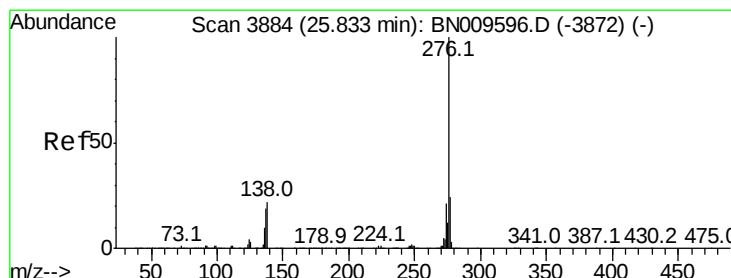
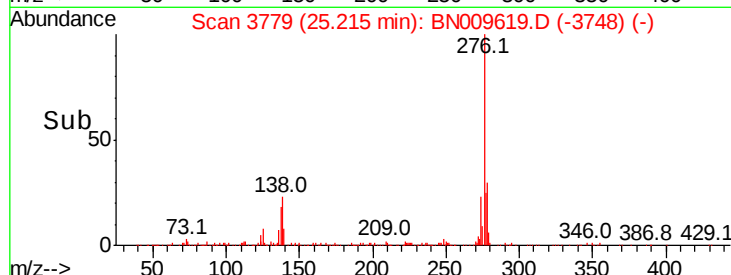
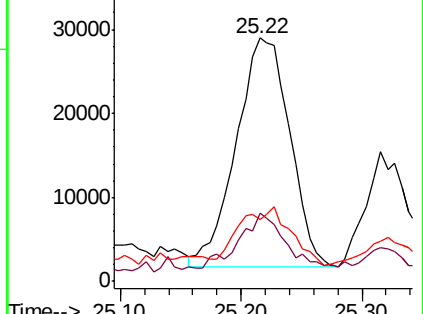
279 25.5 19.8 29.8



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#93

Benzo(g,h,i)perylene

Concen: 3.582 ng/ul

RT: 25.84 min Scan# 3886

Delta R.T. -0.01 min

Lab File: BN009619.D

Acq: 06 Feb 2020 20:59

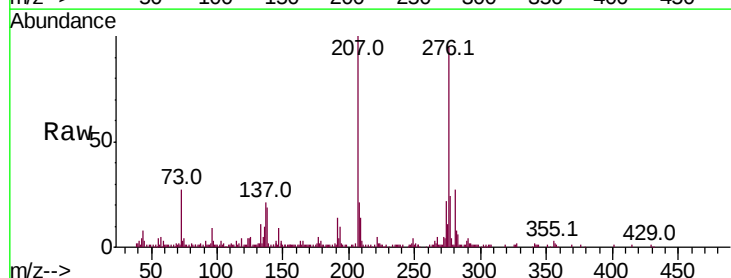
Tgt Ion:276 Resp: 202105

Ion Ratio Lower Upper

276 100

138 20.0 16.0 24.0

277 25.6 17.0 25.6#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

