

Data Path : Z:\SVOASRV\HPCHEM1\BNA_N\DATA\BN050319\
 Data File : BN005470.D
 Acq On : 04 May 2019 02:26
 Operator : JU/SJ
 Sample : K2603-15DL 25X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GAJ67DL

Quant Time: May 06 01:11:17 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Fri May 03 03:02:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.59	152	271764	20.00	ng/ul	0.00
18) Naphthalene-d8	10.36	136	1128502	20.00	ng/ul	0.01
35) Acenaphthene-d10	14.23	164	762421	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.99	188	1642268	20.00	ng/ul	0.01
77) Chrysene-d12	21.23	240	1229229	20.00	ng/ul	0.01
85) Perylene-d12	23.42	264	1287827	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.22	96	17821	3.17	ng/uL	0.00
5) Phenol-d5	6.78	99	434935	20.38	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.94	67	256685	19.28	ng/ul	0.00
9) 2-Chlorophenol-d4	7.13	132	361853	22.15	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	351589	21.07	ng/ul	0.00
19) Nitrobenzene-d5	8.73	128	200369	28.85	ng/ul	0.00
22) 2-Nitrophenol-d4	9.45	143	217020	30.82	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.99	165	383323	23.75	ng/ul	0.00
29) 4-Chloroaniline-d4	10.49	131	370620	22.27	ng/ul	0.00
43) Dimethylphthalate-d6	13.65	166	1193557	21.57	ng/ul	0.00
46) Acenaphthylene-d8	13.93	160	1462080	21.51	ng/ul	0.01
51) 4-Nitrophenol-d4	14.45	143	154615	17.69	ng/ul	0.00
57) Fluorene-d10	15.23	176	1020174	21.96	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.40	200	53834	7.29	ng/ul	0.04
70) Anthracene-d10	17.10	188	1592828	23.14	ng/ul	0.02
78) Pyrene-d10	19.41	212	1754493	27.90	ng/ul	0.02
89) Benzo(a)pyrene-d12	23.29	264	1308449	23.25	ng/ul	0.00

Target Compounds

					Qvalue	
4) Benzaldehyde	6.76	77	31515	2.084	ng/ul#	1
6) Phenol	6.80	94	32194	1.466	ng/ul	94
14) Acetophenone	8.39	105	94620	3.543	ng/ul#	66
17) Hexachloroethane	8.68	117	242561	33.077	ng/ul#	6
30) 4-Chloroaniline	10.45	127	9174742	541.137	ng/ul#	10
32) Caprolactam	11.29	113	7601	1.577	ng/ul#	1
34) 2-Methylnaphthalene	11.89	142	575965	14.994	ng/ul#	72
40) 1,1'-Biphenyl	13.06	154	5703391	100.399	ng/ul	98
44) Dimethylphthalate	13.69	163	383630	6.956	ng/ul	99
49) Acenaphthene	14.29	153	2147630	47.091	ng/ul	99
53) Dibenzofuran	14.63	168	2205112	33.583	ng/ul	97
54) 2,4-Dinitrotoluene	14.60	165	136494	9.943	ng/ul#	52
58) Fluorene	15.30	166	13263773	258.871	ng/ul	96
60) 4-Nitroaniline	15.30	138	159357	14.440	ng/ul#	15
64) N-Nitrosodiphenylamine	15.50	169	207514	4.617	ng/ul#	67
69) Phenanthrene	17.13	178	14107168	176.381	ng/ul#	94
71) Anthracene	17.13	178	14078272	172.790	ng/ul	94
74) Carbazole	17.39	167	391827	5.598	ng/ul#	89
76) Fluoranthene	19.23	202	11515291	129.802	ng/ul	96
79) Pyrene	19.51	202	160807	2.032	ng/ul#	74
82) Benzo(a)anthracene	21.21	228	14450918	188.973	ng/ul#	67
84) Chrysene	21.27	228	12290654	173.176	ng/ul	94
87) Benzo(b)fluoranthene	22.78	252	9120632	125.989	ng/ul	97

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Quant Title : SVOA CALIBRATION
QLast Update : Fri May 03 03:02:31 2019
Response via : Initial Calibration

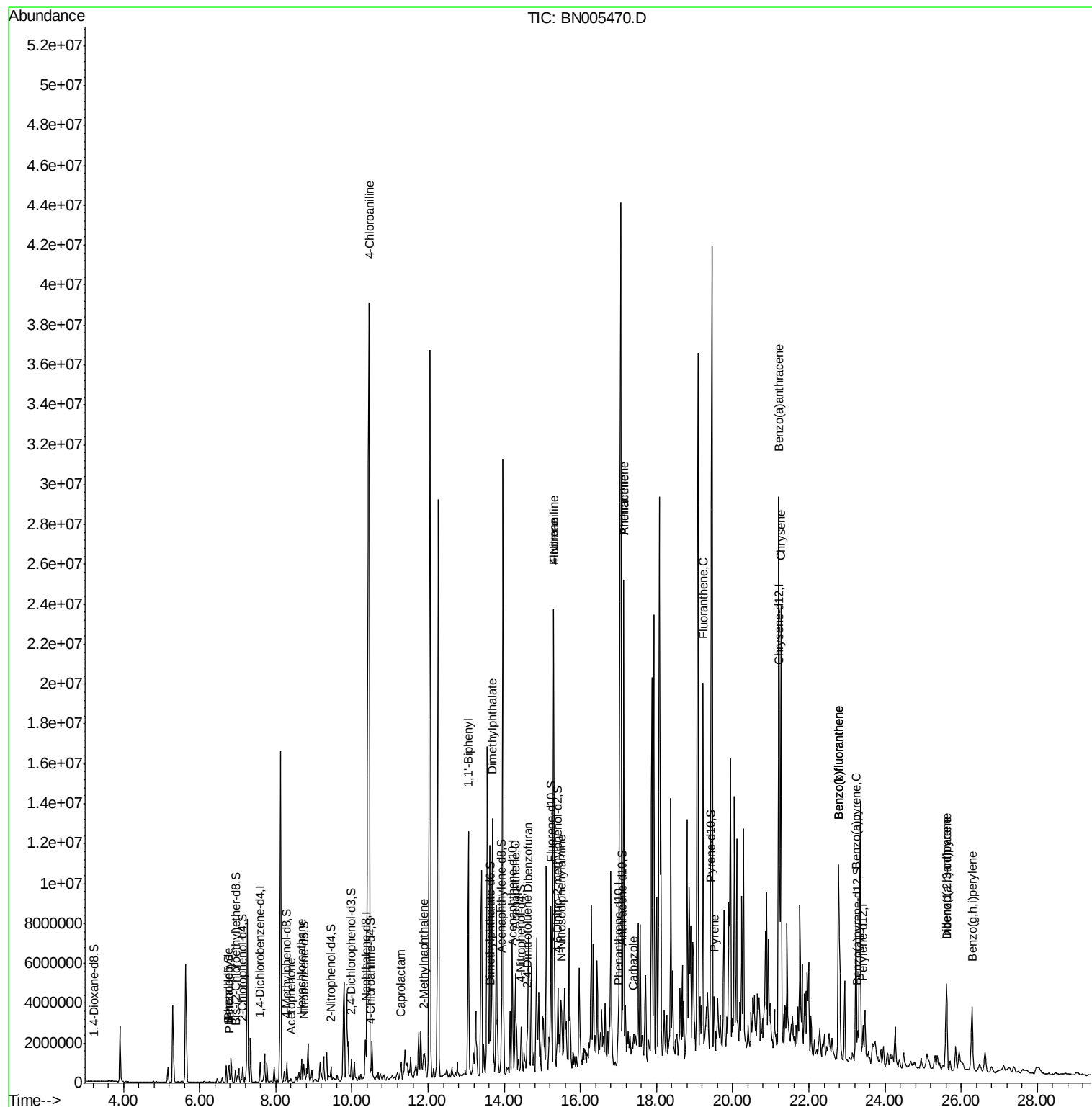
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(k)fluoranthene	22.78	252	9120632	131.918	ng/ul	98
90) Benzo(a)pyrene	23.24	252	5378183	79.038	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.62	276	4242907	56.398	ng/ul	99
92) Dibenzo(a,h)anthracene	25.62	278	1350969	21.160	ng/ul	99
93) Benzo(g,h,i)perylene	26.29	276	4114177	66.138	ng/ul	94

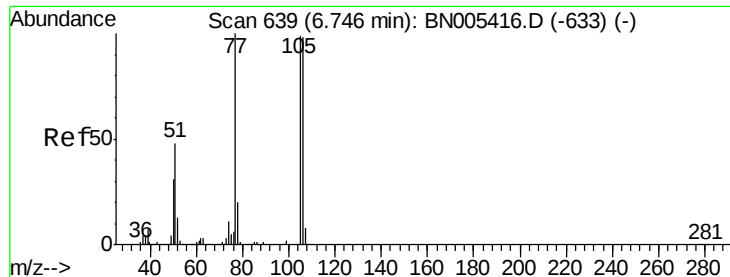
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
Quant Title : SVOA CALIBRATION
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#4

Benzaldehyde

Concen: 2.084 ng/ul

RT: 6.76 min Scan# 641

Delta R.T. 0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampleId :

GAJ67DL

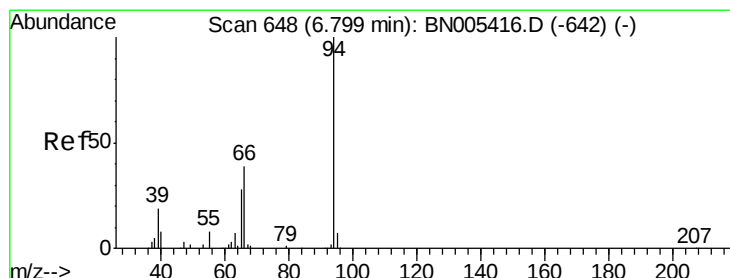
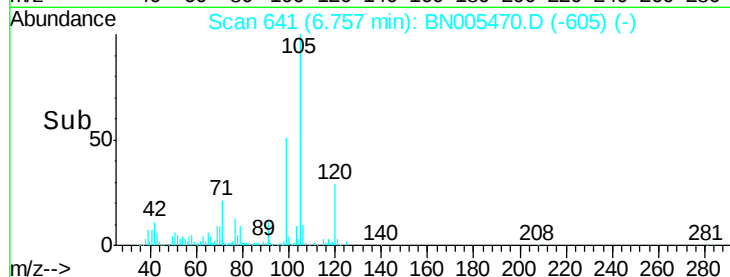
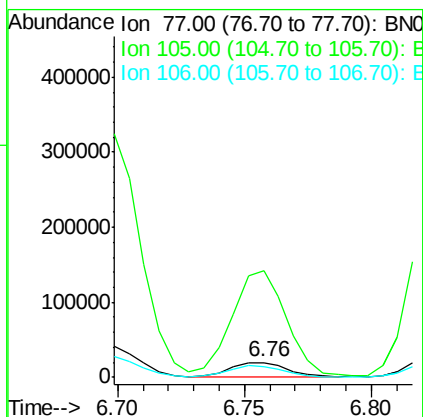
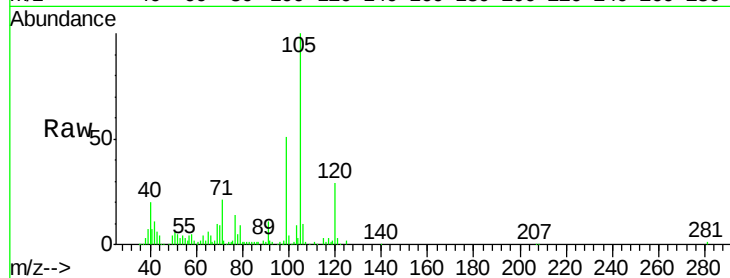
Tgt Ion: 77 Resp: 31515

Ion Ratio Lower Upper

77 100

105 731.6 77.4 116.2#

106 75.1 76.3 114.5#



#6

Phenol

Concen: 1.466 ng/ul

RT: 6.80 min Scan# 648

Delta R.T. -0.00 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

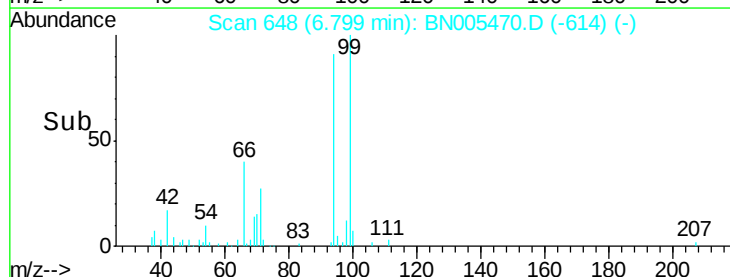
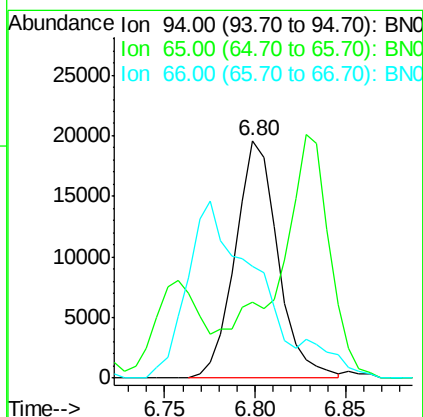
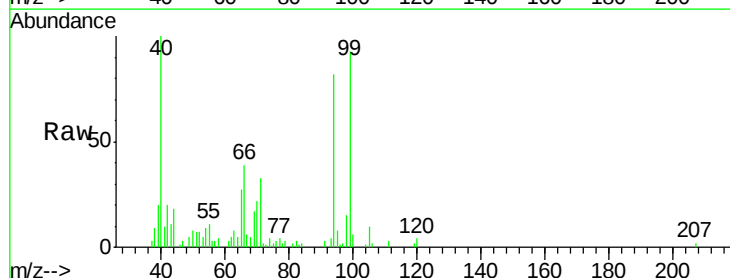
Tgt Ion: 94 Resp: 32194

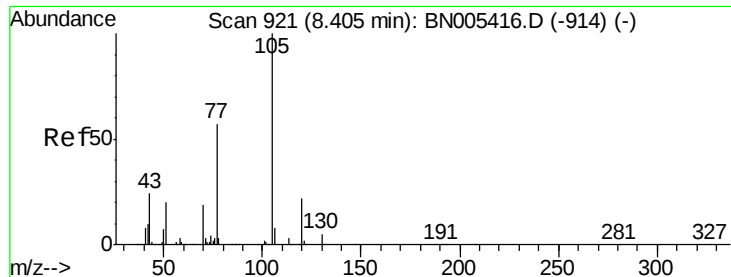
Ion Ratio Lower Upper

94 100

65 32.2 24.2 36.4

66 47.0 33.8 50.6





#14

Acetophenone

Concen: 3.543 ng/ul

RT: 8.39 min Scan# 919

Delta R.T. -0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampleId :

GAJ67DL

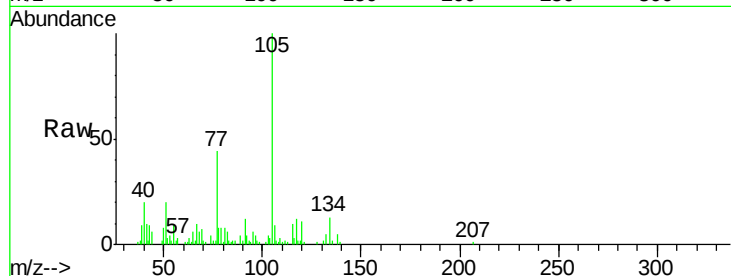
Tgt Ion:105 Resp: 94620

Ion Ratio Lower Upper

105 100

77 44.0 63.4 95.0#

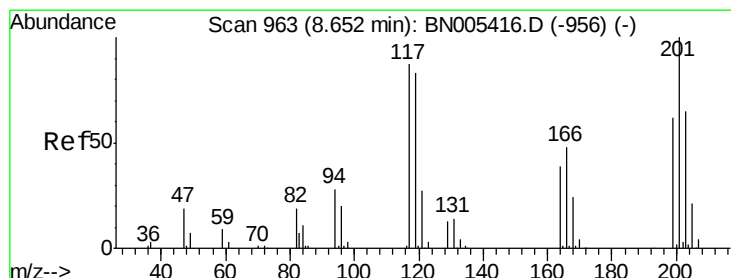
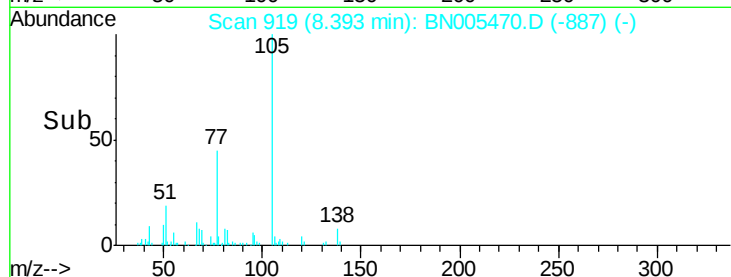
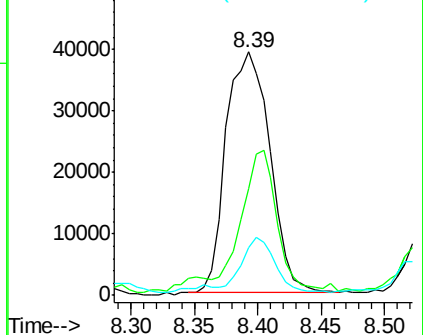
51 19.6 24.2 36.4#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BNO

Ion 51.00 (50.70 to 51.70): BNO



#17

Hexachloroethane

Concen: 33.077 ng/ul

RT: 8.68 min Scan# 968

Delta R.T. 0.03 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

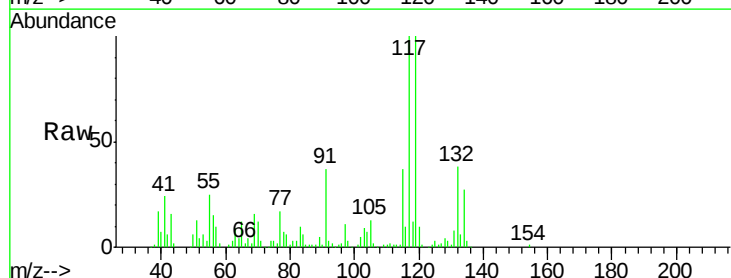
Tgt Ion:117 Resp: 242561

Ion Ratio Lower Upper

117 100

201 0.0 84.1 126.1#

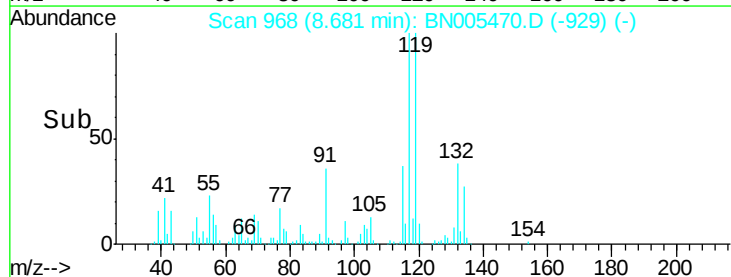
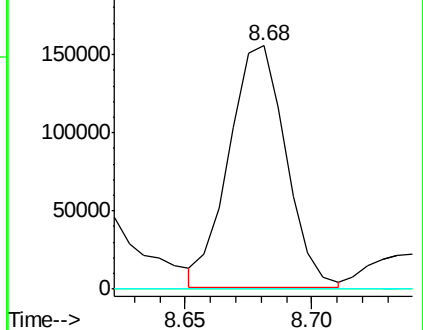
199 0.0 51.2 76.8#

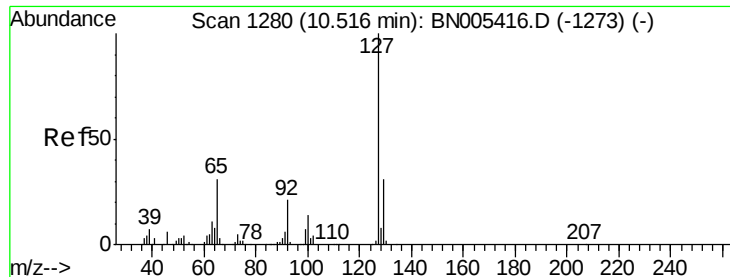


Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E





#30

4-Chloroaniline

Concen: 541.137 ng/ul

RT: 10.45 min Scan# 1269

Delta R.T. -0.06 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampleId :

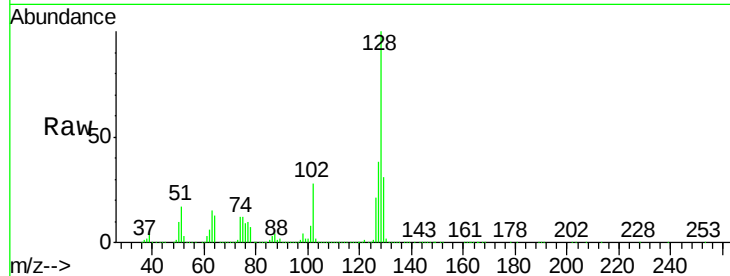
GAJ67DL

Tgt Ion:127 Resp: 9174742

Ion Ratio Lower Upper

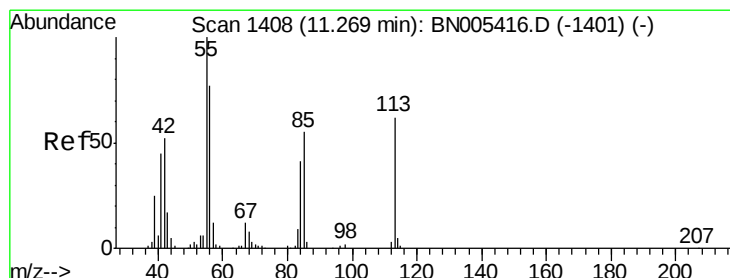
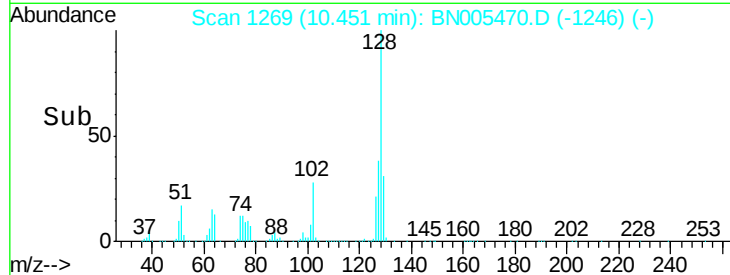
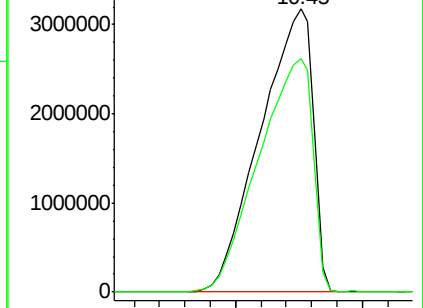
127 100

129 82.3 25.8 38.6#



Abundance Ion 127.00 (126.70 to 127.70): E

Ion 129.00 (128.70 to 129.70): E



#32

Caprolactam

Concen: 1.577 ng/ul

RT: 11.29 min Scan# 1412

Delta R.T. 0.02 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

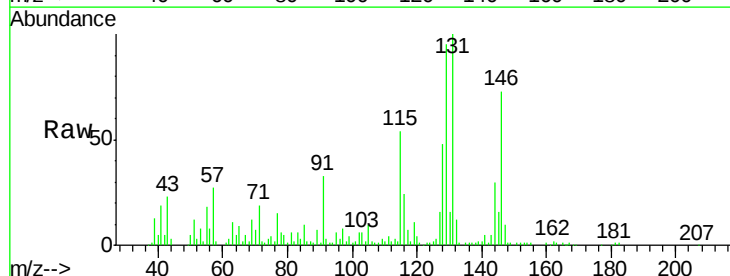
Tgt Ion:113 Resp: 7601

Ion Ratio Lower Upper

113 100

55 530.7 157.0 235.4#

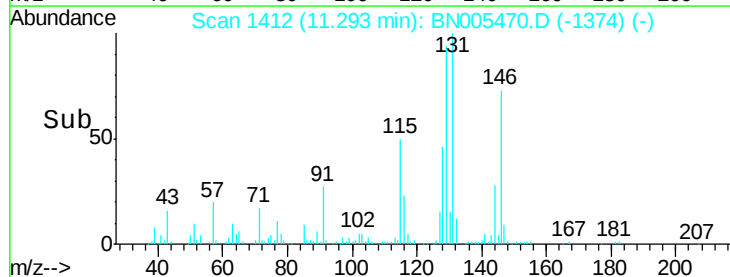
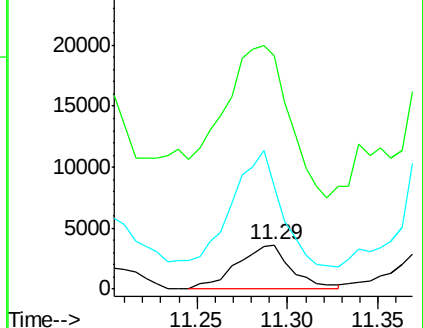
56 232.2 119.1 178.7#

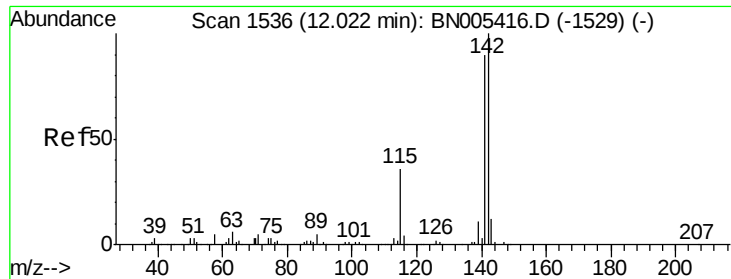


Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNC

Ion 56.00 (55.70 to 56.70): BNC

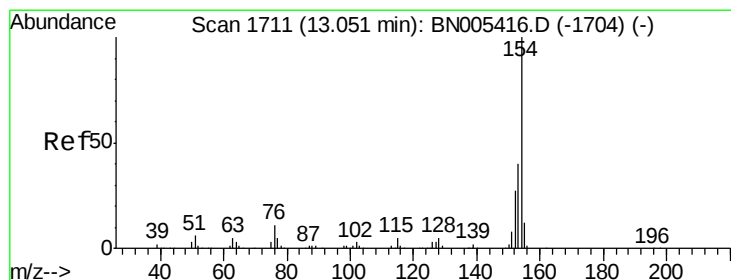
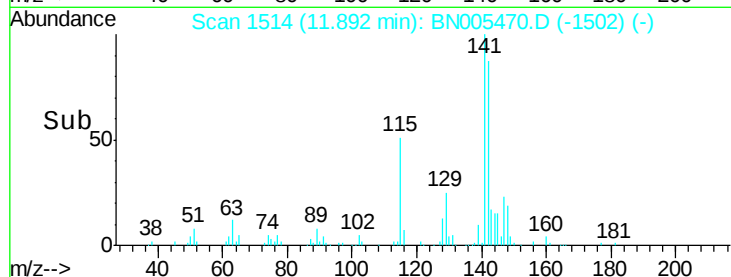
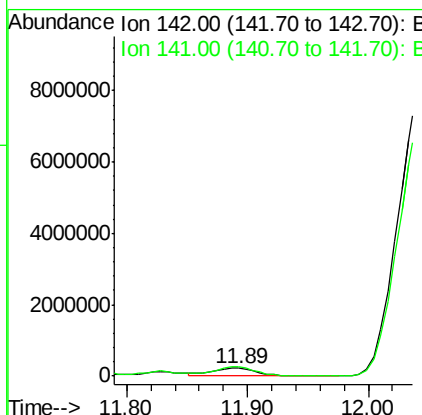
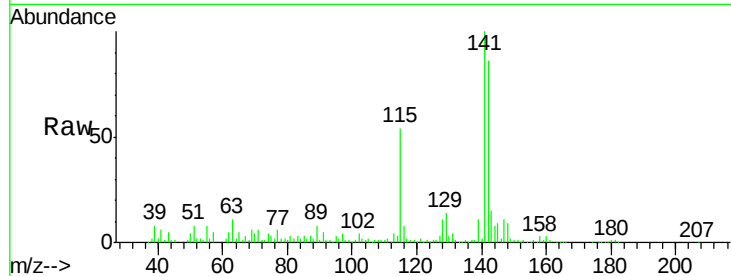




#34
 2-Methylnaphthalene
 Concen: 14.994 ng/ul
 RT: 11.89 min Scan# 1514
 Delta R.T. -0.13 min
 Lab File: BN005470.D
 Acq: 04 May 2019 02:26

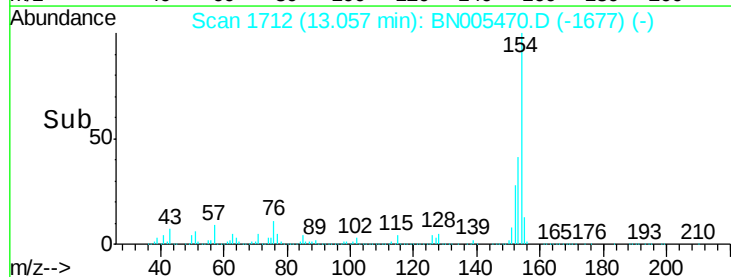
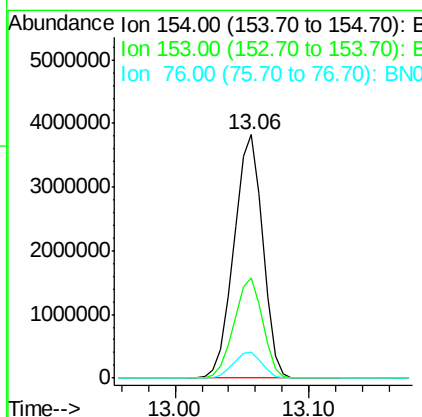
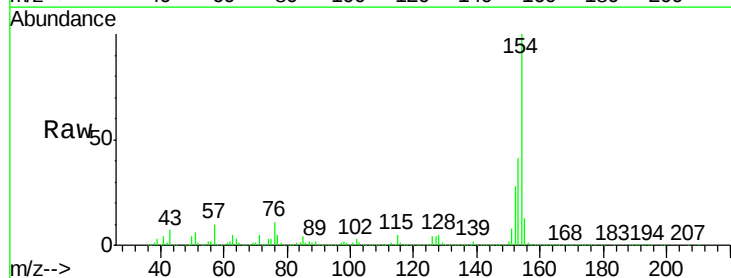
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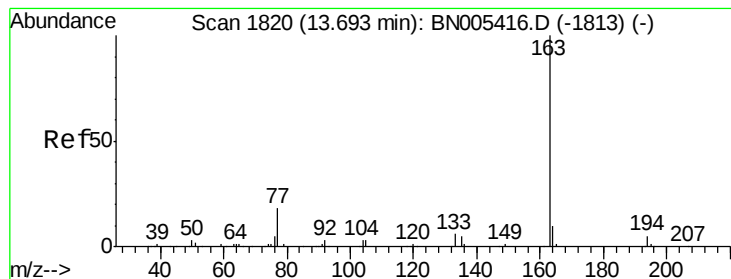
Tgt Ion:142 Resp: 575965
 Ion Ratio Lower Upper
 142 100
 141 116.0 72.0 108.0#



#40
 1,1'-Biphenyl
 Concen: 100.399 ng/ul
 RT: 13.06 min Scan# 1712
 Delta R.T. 0.01 min
 Lab File: BN005470.D
 Acq: 04 May 2019 02:26

Tgt Ion:154 Resp: 5703391
 Ion Ratio Lower Upper
 154 100
 153 41.3 32.6 49.0
 76 10.8 10.4 15.6





#44

Dimethylphthalate

Concen: 6.956 ng/ul

RT: 13.69 min Scan# 1820

Delta R.T. -0.00 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampleId :

GAJ67DL

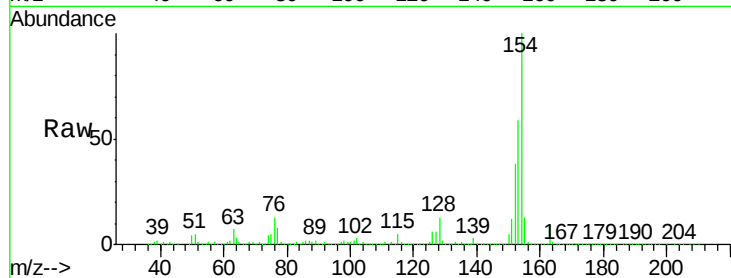
Tgt Ion:163 Resp: 383630

Ion Ratio Lower Upper

163 100

194 4.9 3.4 5.0

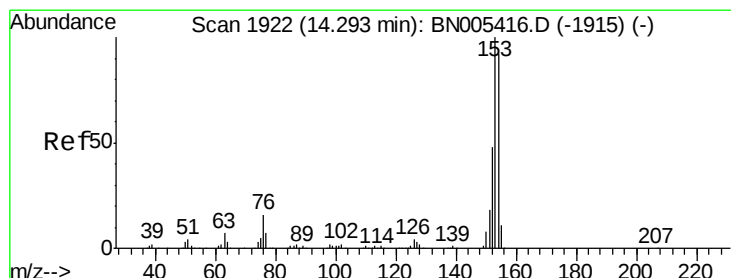
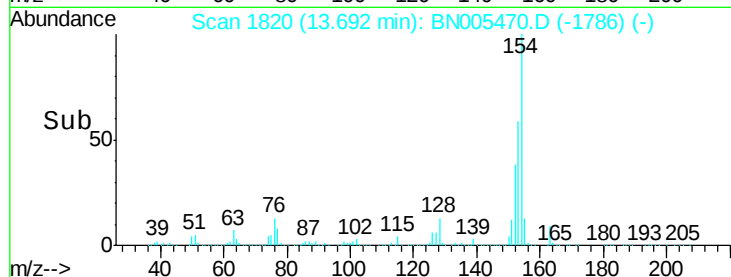
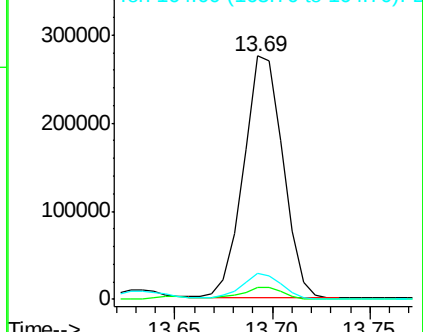
164 10.5 8.1 12.1



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



#49

Acenaphthene

Concen: 47.091 ng/ul

RT: 14.29 min Scan# 1922

Delta R.T. -0.00 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

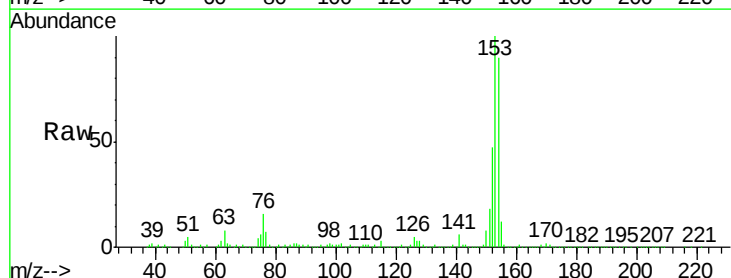
Tgt Ion:153 Resp: 2147630

Ion Ratio Lower Upper

153 100

152 47.3 37.4 56.0

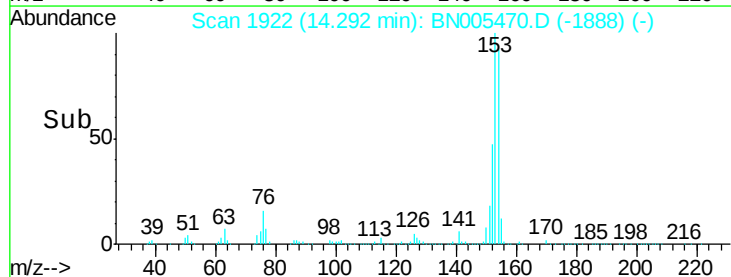
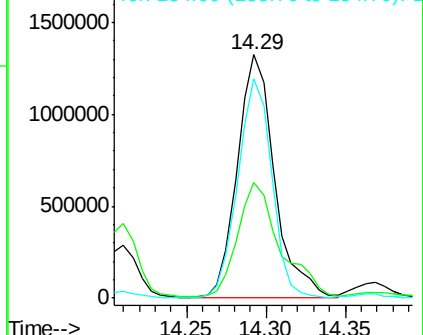
154 89.9 71.2 106.8

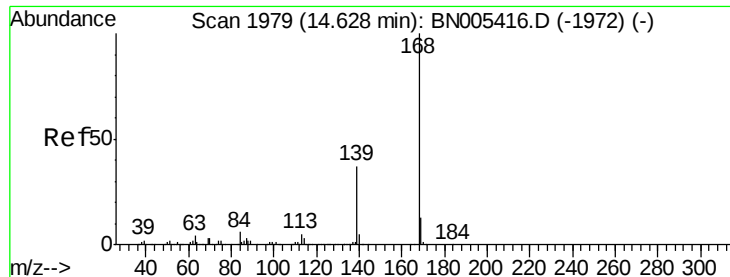


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzenofuran

Concen: 33.583 ng/ul

RT: 14.63 min Scan# 1979

Delta R.T. -0.00 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

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ClientSampleId :

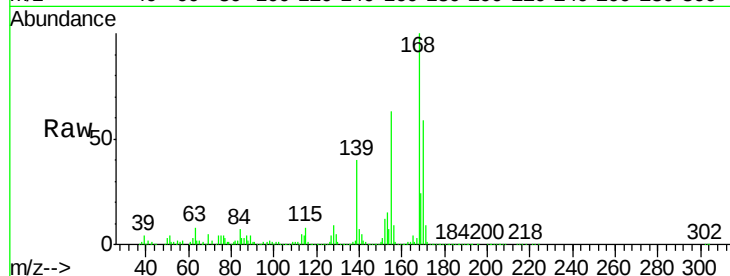
GAJ67DL

Tgt Ion:168 Resp: 2205112

Ion Ratio Lower Upper

168 100

139 40.4 30.9 46.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.63

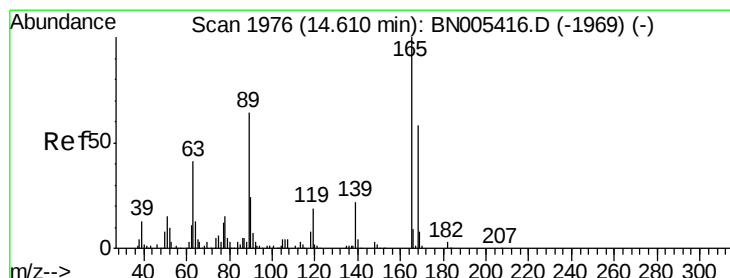
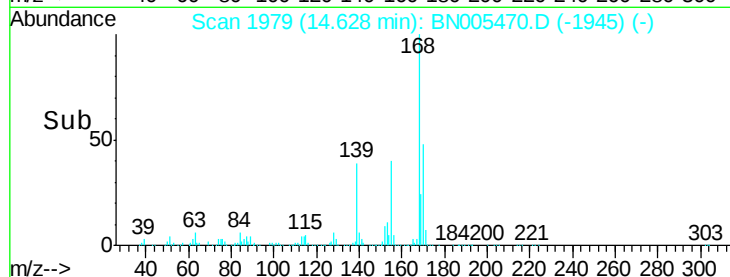
1500000

1000000

500000

0

Time-->



#54

2,4-Dinitrotoluene

Concen: 9.943 ng/ul

RT: 14.60 min Scan# 1974

Delta R.T. -0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

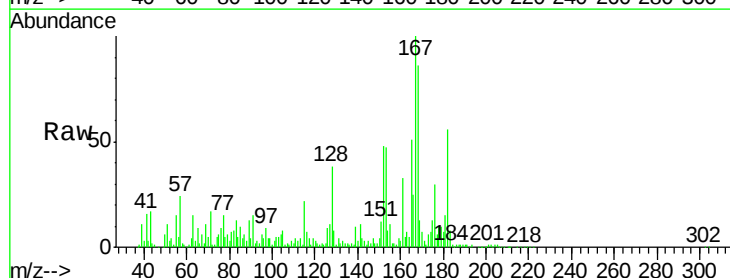
Tgt Ion:165 Resp: 136494

Ion Ratio Lower Upper

165 100

63 28.3 38.9 58.3#

182 109.9 2.6 3.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BN0

Ion 182.00 (181.70 to 182.70): E

14.60

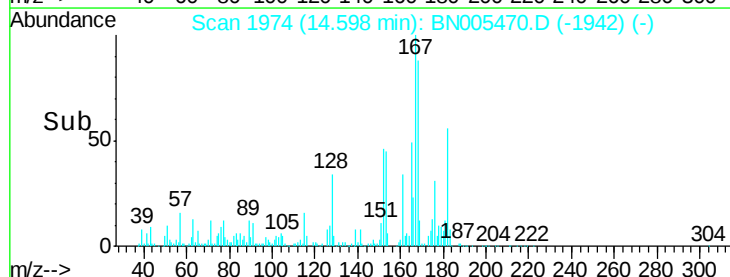
150000

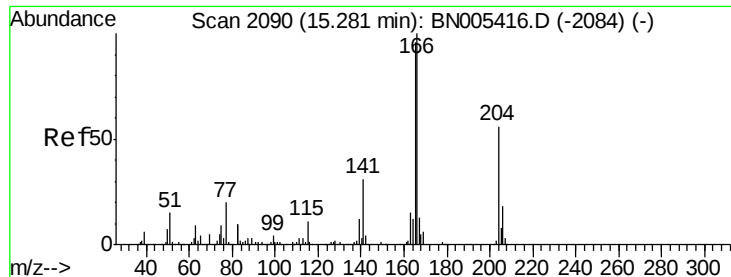
100000

50000

0

Time-->





#58

Fluorene

Concen: 258.871 ng/ul

RT: 15.30 min Scan# 2093

Delta R.T. 0.02 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampleId :

GAJ67DL

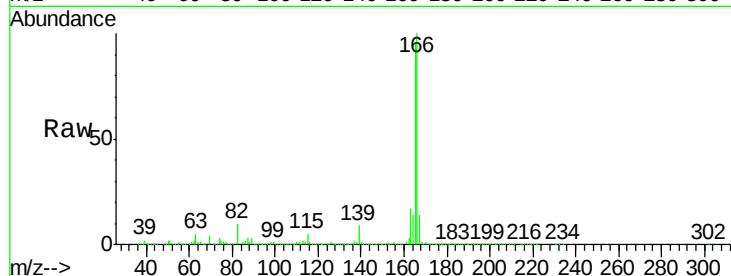
Tgt Ion:166 Resp:13263773

Ion Ratio Lower Upper

166 100

165 96.3 80.0 120.0

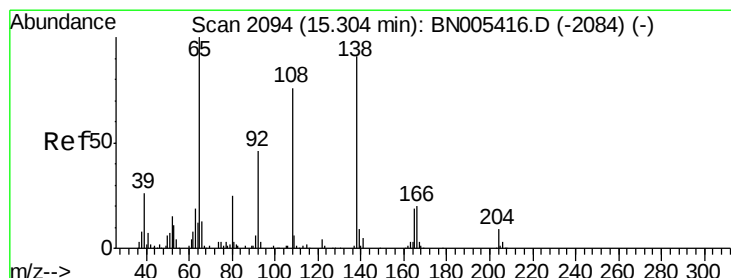
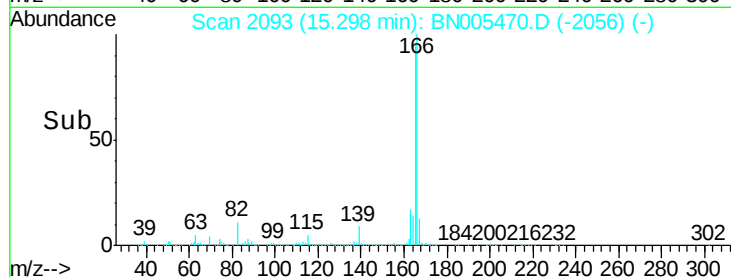
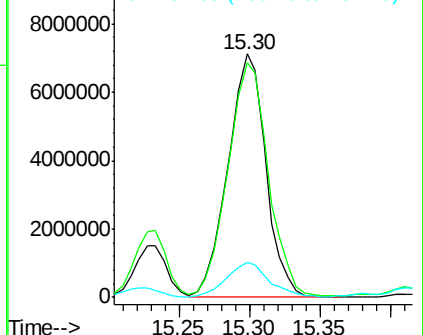
167 14.3 10.7 16.1



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



#60

4-Nitroaniline

Concen: 14.440 ng/ul

RT: 15.30 min Scan# 2093

Delta R.T. -0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

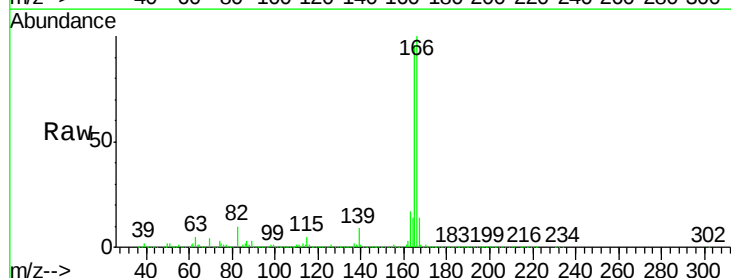
Tgt Ion:138 Resp: 159357

Ion Ratio Lower Upper

138 100

92 3.1 45.3 67.9#

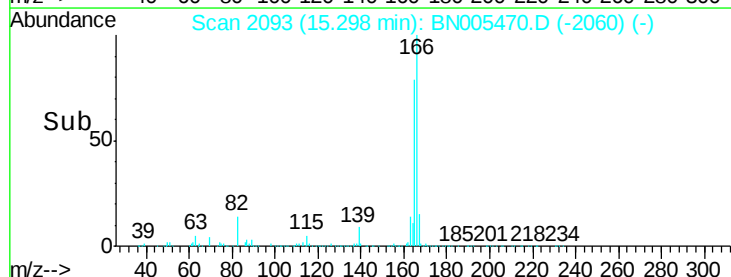
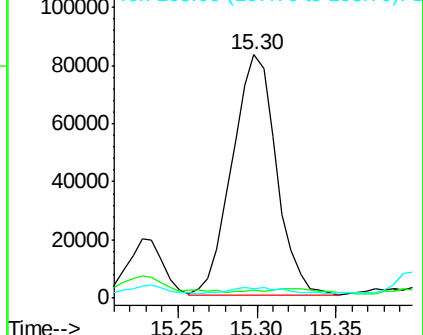
108 4.0 73.2 109.8#

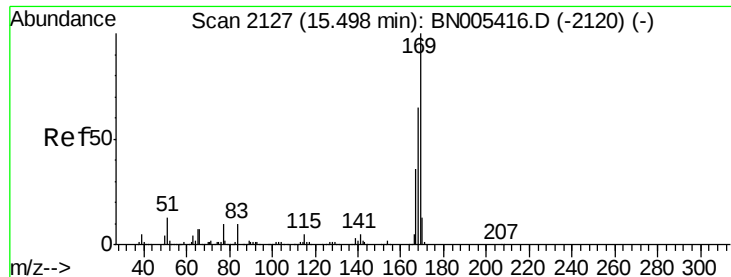


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BNC

Ion 108.00 (107.70 to 108.70): E





#64

N-Nitrosodiphenylamine

Concen: 4.617 ng/ul

RT: 15.50 min Scan# 2128

Delta R.T. 0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampleId :

GAJ67DL

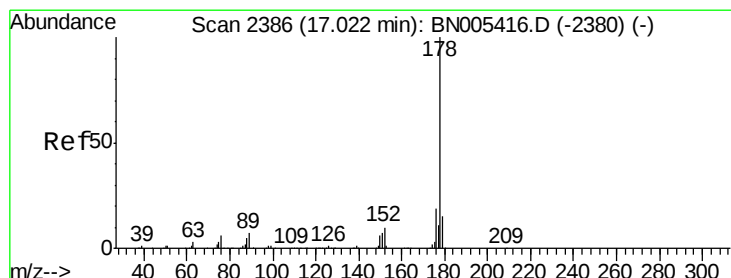
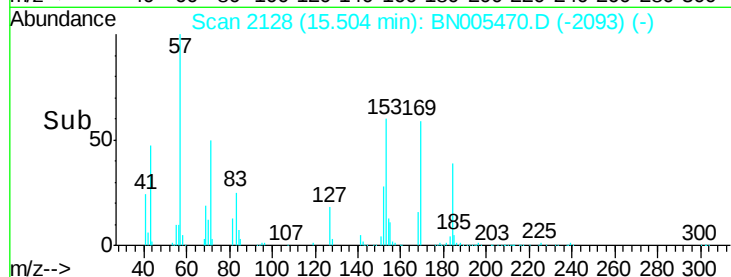
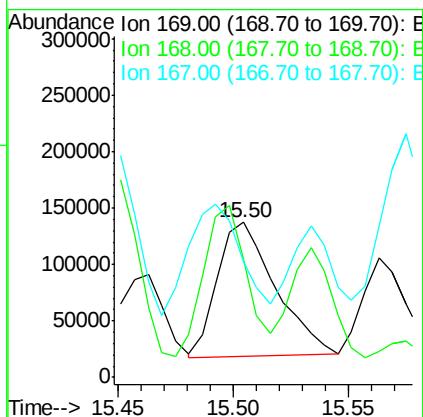
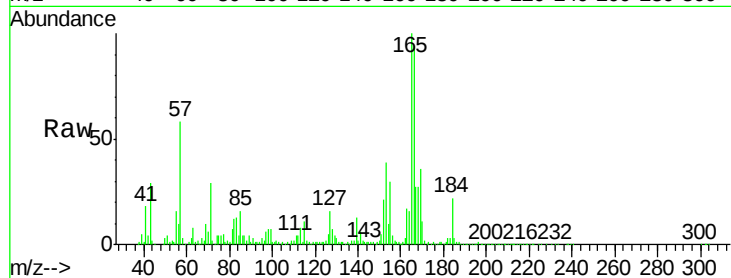
Tgt Ion:169 Resp: 207514

Ion Ratio Lower Upper

169 100

168 75.8 52.2 78.2

167 74.8 27.7 41.5#



#69

Phenanthrene

Concen: 176.381 ng/ul

RT: 17.13 min Scan# 2405

Delta R.T. 0.11 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

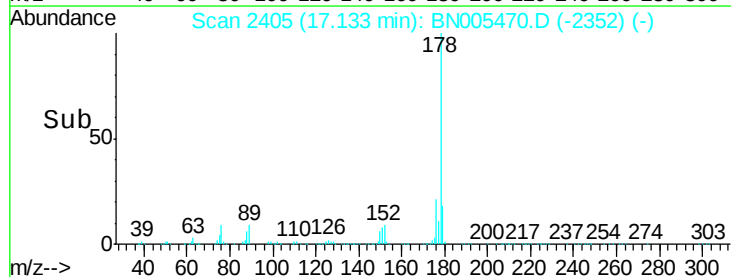
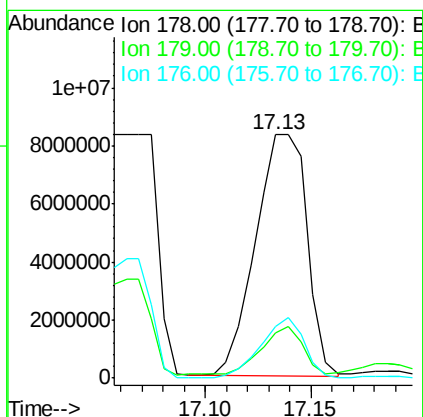
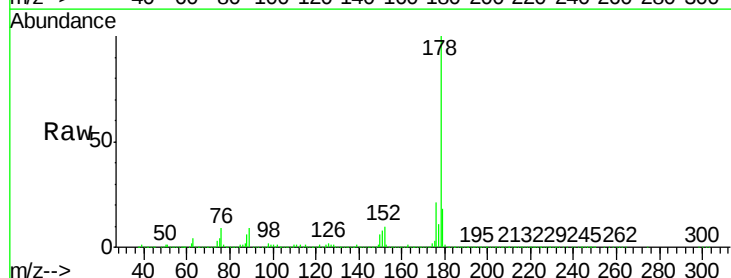
Tgt Ion:178 Resp:14107168

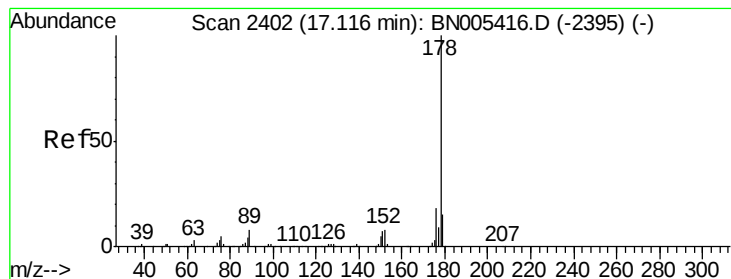
Ion Ratio Lower Upper

178 100

179 18.4 12.2 18.4#

176 21.3 15.1 22.7





#71

Anthracene

Concen: 172.790 ng/ul

RT: 17.13 min Scan# 2405

Delta R.T. 0.02 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampled :

GAJ67DL

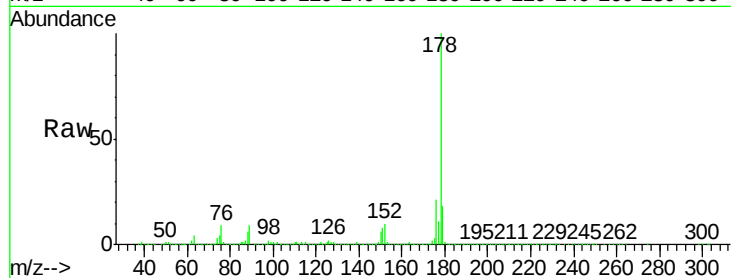
Tgt Ion:178 Resp:14078272

Ion Ratio Lower Upper

178 100

179 18.4 12.3 18.5

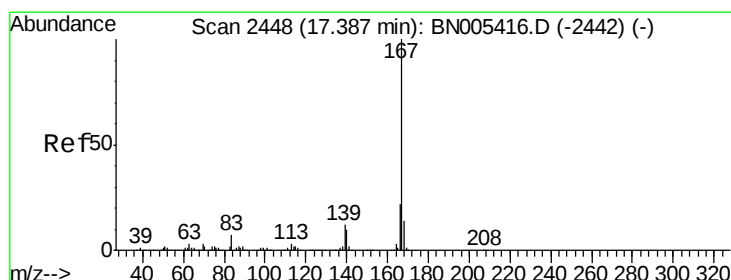
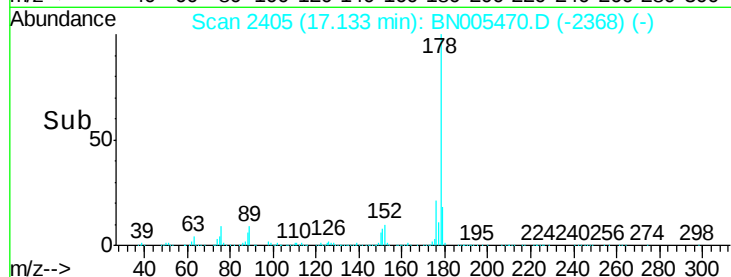
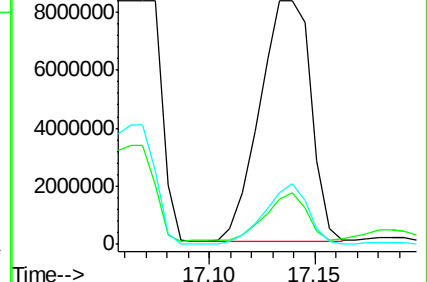
176 21.3 15.1 22.7



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



#74

Carbazole

Concen: 5.598 ng/ul

RT: 17.39 min Scan# 2449

Delta R.T. 0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

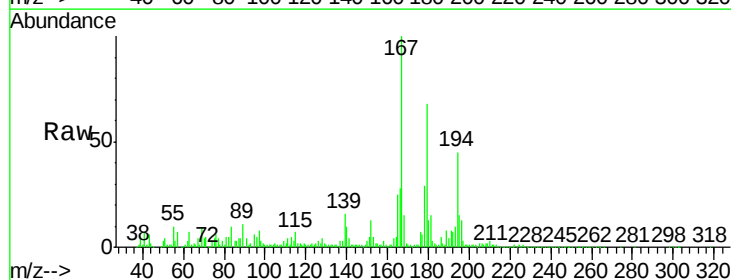
Tgt Ion:167 Resp: 391827

Ion Ratio Lower Upper

167 100

166 28.0 17.2 25.8#

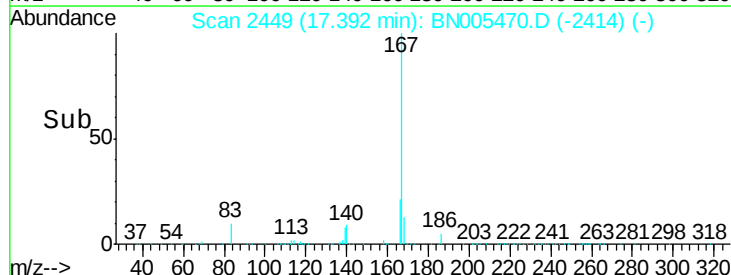
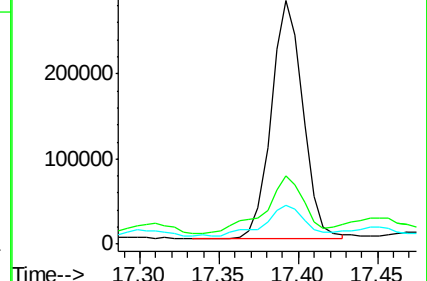
139 15.8 10.6 16.0

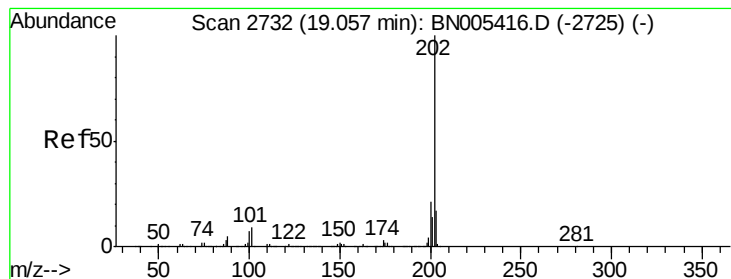


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#76

Fluoranthene

Concen: 129.802 ng/ul

RT: 19.23 min Scan# 2761

Delta R.T. 0.17 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampled :

GAJ67DL

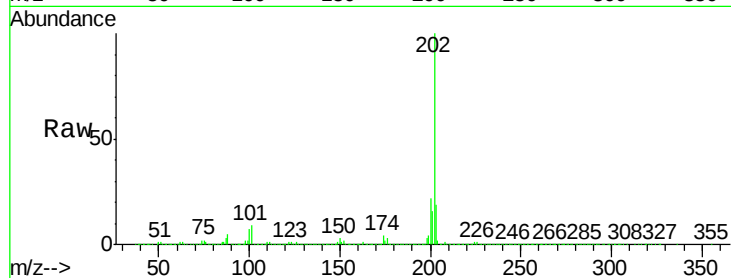
Tgt Ion:202 Resp:11515291

Ion Ratio Lower Upper

202 100

101 8.7 8.6 12.8

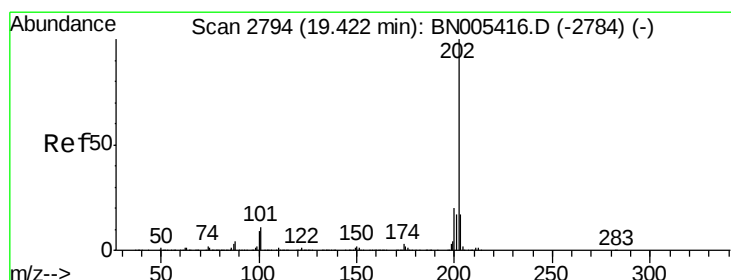
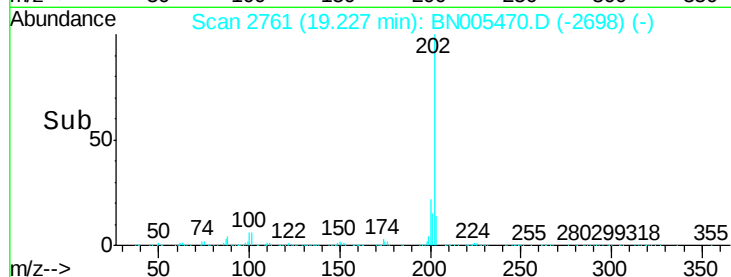
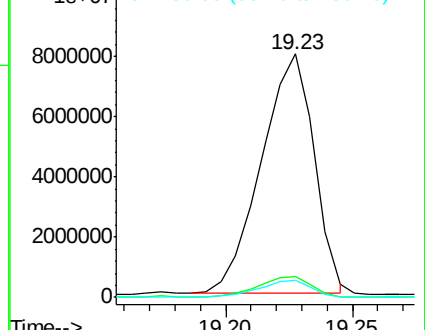
100 7.0 6.3 9.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#79

Pyrene

Concen: 2.032 ng/ul

RT: 19.51 min Scan# 2809

Delta R.T. 0.09 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

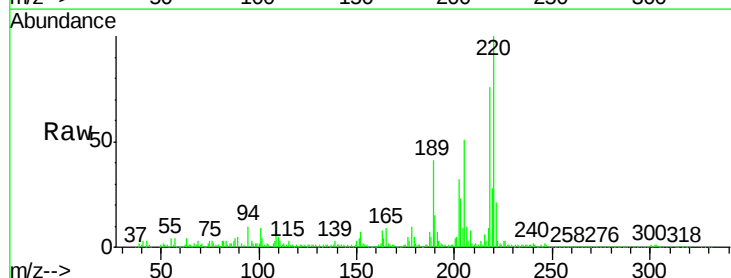
Tgt Ion:202 Resp: 160807

Ion Ratio Lower Upper

202 100

101 29.4 10.3 15.5#

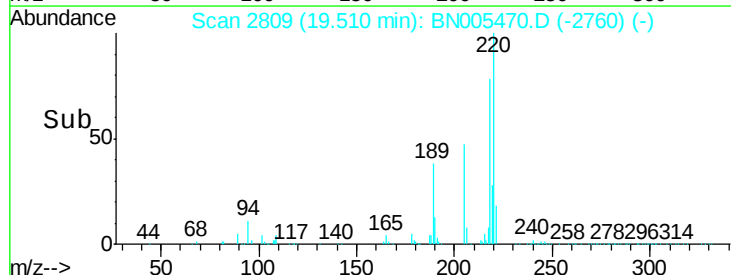
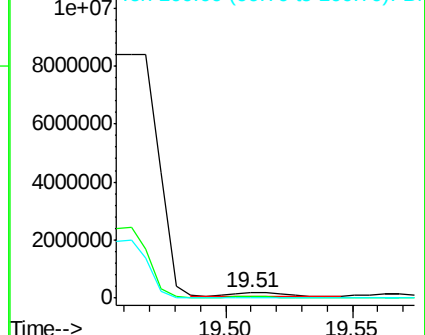
100 7.6 7.9 11.9#

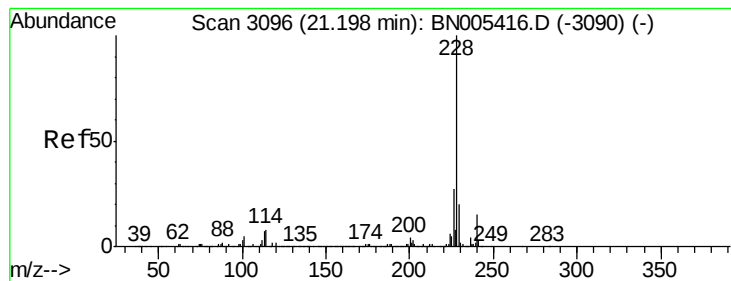


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#82

Benzo(a)anthracene

Concen: 188.973 ng/ul

RT: 21.21 min Scan# 3098

Delta R.T. 0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampled :

GAJ67DL

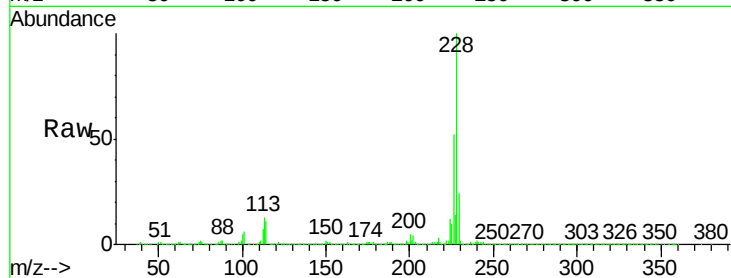
Tgt Ion:228 Resp:14450918

Ion Ratio Lower Upper

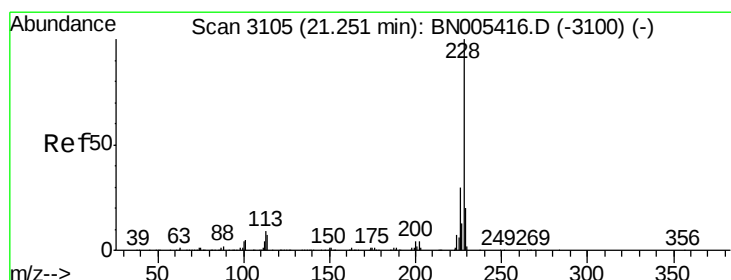
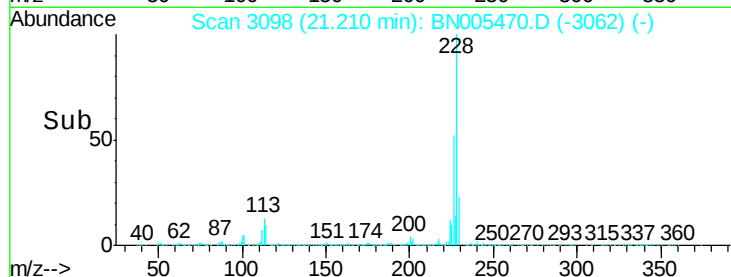
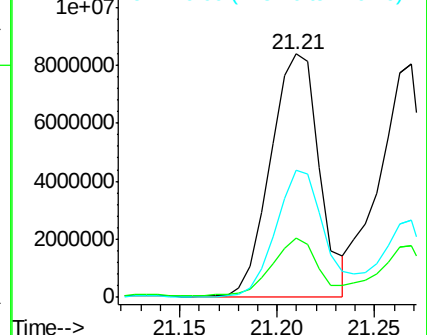
228 100

229 24.4 15.8 23.6#

226 52.4 21.4 32.2#



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: 173.176 ng/ul

RT: 21.27 min Scan# 3108

Delta R.T. 0.02 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

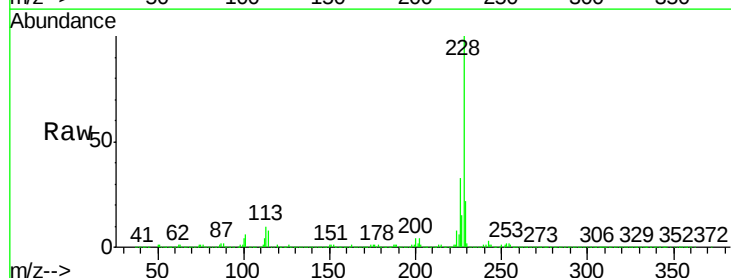
Tgt Ion:228 Resp:12290654

Ion Ratio Lower Upper

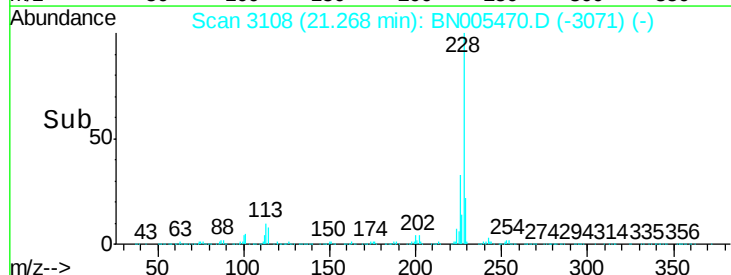
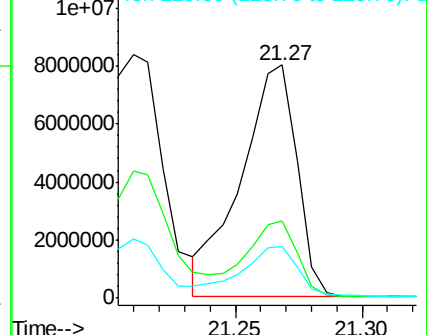
228 100

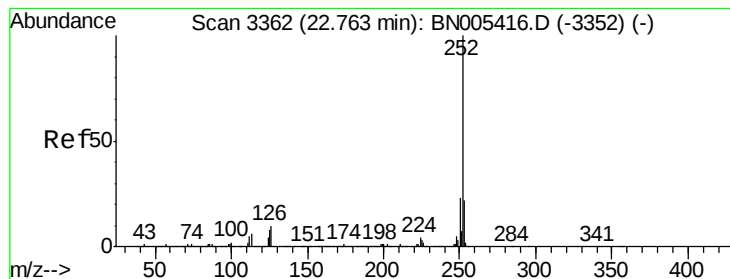
226 33.3 24.0 36.0

229 22.4 15.4 23.0



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: 125.989 ng/ul

RT: 22.78 min Scan# 3365

Delta R.T. 0.02 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampleId :

GAJ67DL

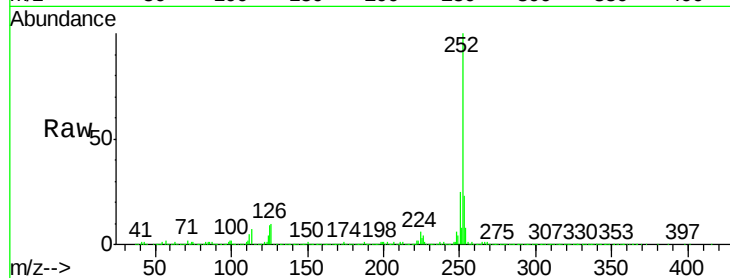
Tgt Ion:252 Resp: 9120632

Ion Ratio Lower Upper

252 100

253 22.9 17.7 26.5

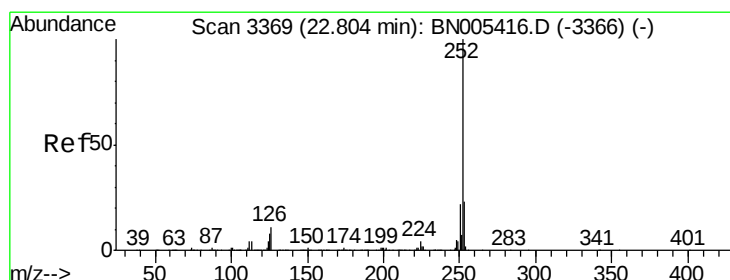
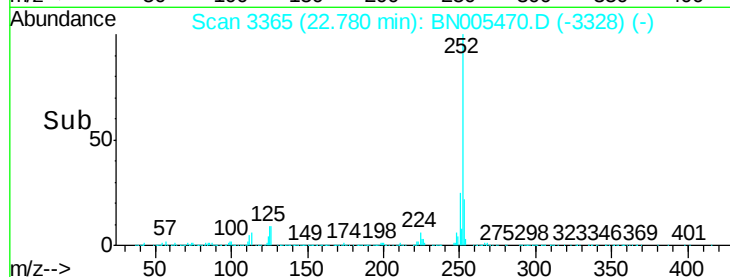
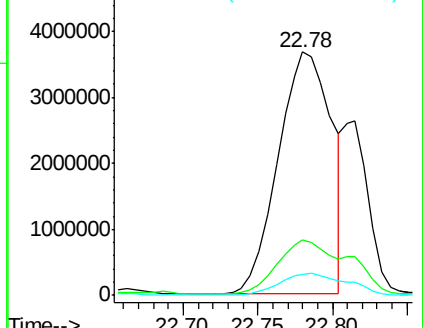
125 8.8 8.4 12.6



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: 131.918 ng/ul

RT: 22.78 min Scan# 3365

Delta R.T. -0.02 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

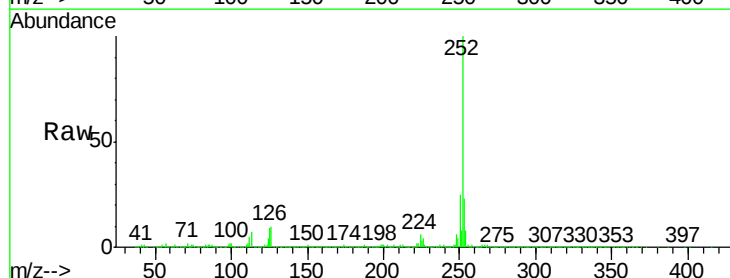
Tgt Ion:252 Resp: 9120632

Ion Ratio Lower Upper

252 100

253 22.9 17.4 26.0

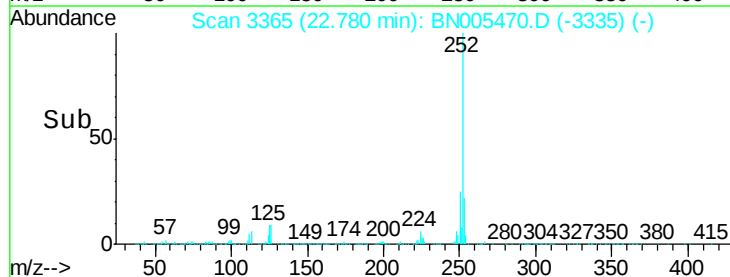
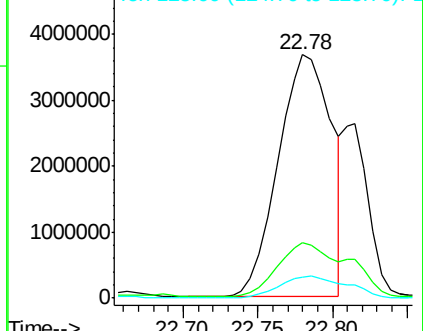
125 8.8 7.5 11.3

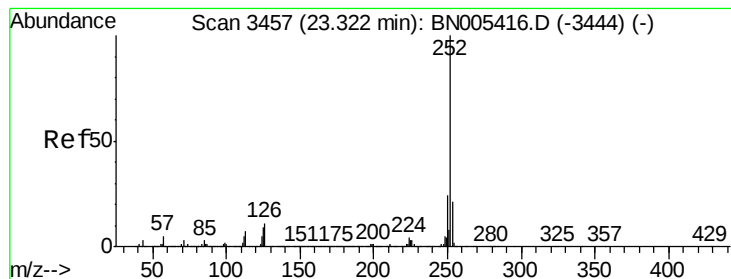


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 79.038 ng/ul

RT: 23.24 min Scan# 3443

Delta R.T. -0.08 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampleId :

GAJ67DL

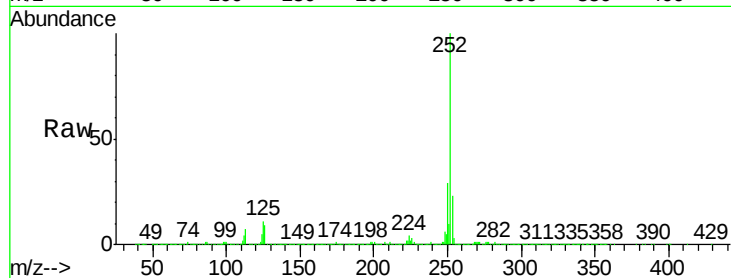
Tgt Ion:252 Resp: 5378183

Ion Ratio Lower Upper

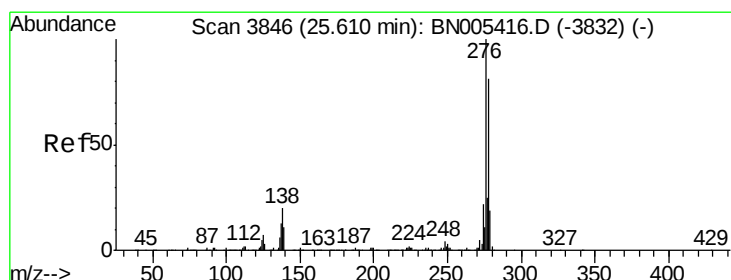
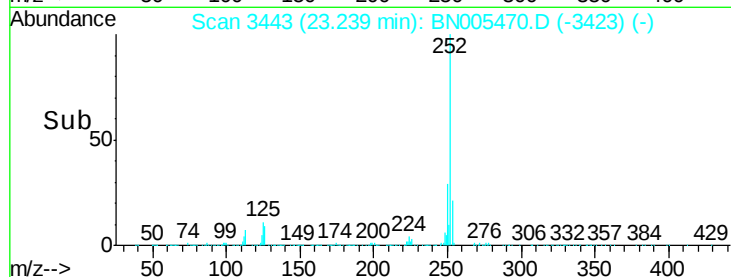
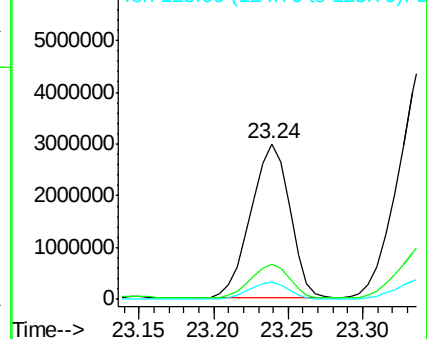
252 100

253 22.5 17.3 25.9

125 11.2 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: 56.398 ng/ul

RT: 25.62 min Scan# 3847

Delta R.T. 0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

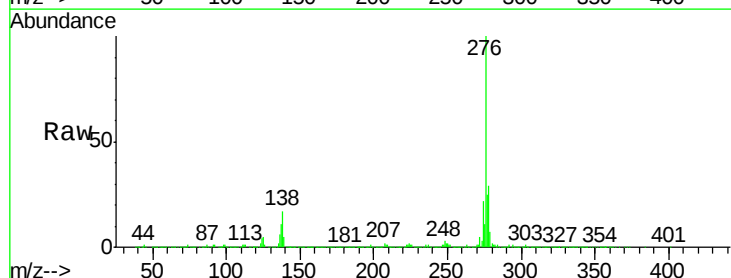
Tgt Ion:276 Resp: 4242907

Ion Ratio Lower Upper

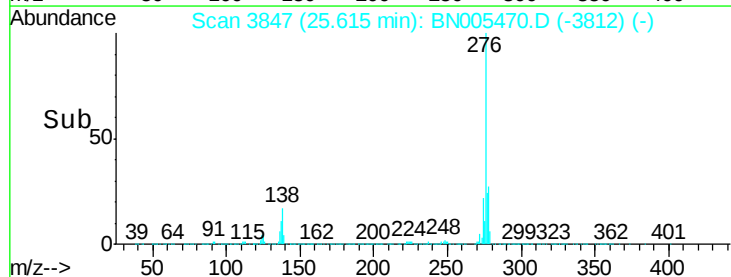
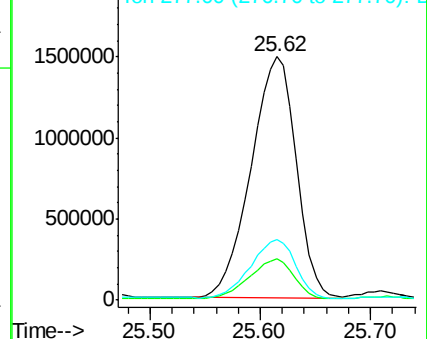
276 100

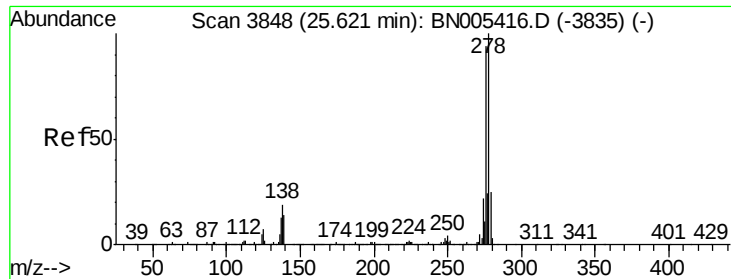
138 21.6 17.9 26.9

277 24.6 19.7 29.5



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





#92

Dibenzo(a,h)anthracene

Concen: 21.160 ng/ul

RT: 25.62 min Scan# 3847

Delta R.T. -0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

Instrument :

BNA_N

ClientSampled :

GAJ67DL

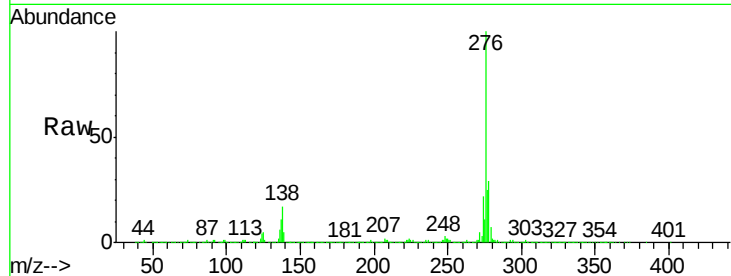
Tgt Ion:278 Resp: 1350969

Ion Ratio Lower Upper

278 100

139 16.0 13.1 19.7

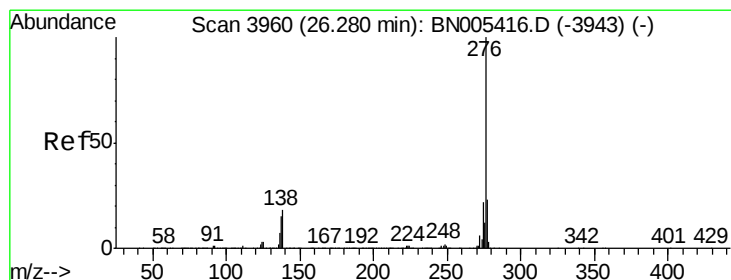
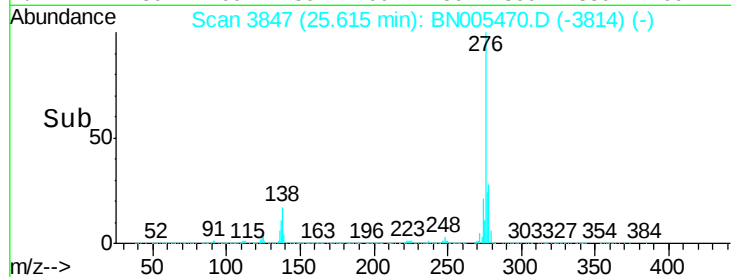
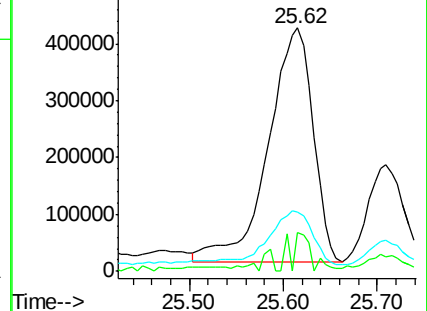
279 24.4 19.4 29.0



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: 66.138 ng/ul

RT: 26.29 min Scan# 3961

Delta R.T. 0.01 min

Lab File: BN005470.D

Acq: 04 May 2019 02:26

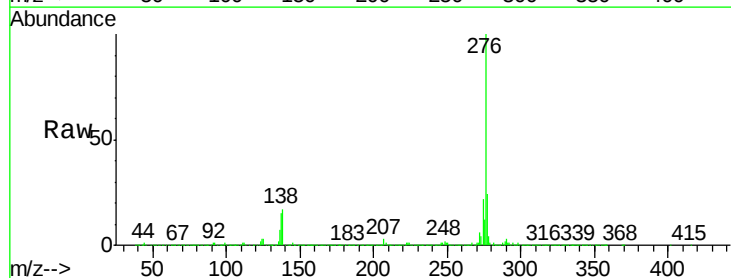
Tgt Ion:276 Resp: 4114177

Ion Ratio Lower Upper

276 100

138 17.0 16.7 25.1

277 24.2 18.2 27.2



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

