

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN051019\
 Data File : BN005596.D
 Acq On : 10 May 2019 19:40
 Operator : JU/SJ
 Sample : K2603-19ME
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :

Quant Time: May 10 23:11:30 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN041919MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Tue May 07 05:36:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.58	152	188404	20.00	ng/ul	0.00
18) Naphthalene-d8	10.35	136	768299	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.22	164	464948	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.98	188	919094	20.00	ng/ul	0.00
77) Chrysene-d12	21.21	240	695783	20.00	ng/ul	0.00
85) Perylene-d12	23.42	264	731370	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.20	96	15087	3.87	ng/uL	0.00
5) Phenol-d5	6.77	99	328714	22.21	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.93	67	194918	21.12	ng/ul	0.00
9) 2-Chlorophenol-d4	7.12	132	274581	24.25	ng/ul	0.00
13) 4-Methylphenol-d8	8.29	113	272978	23.60	ng/ul	0.00
19) Nitrobenzene-d5	8.72	128	153182	32.39	ng/ul	-0.01
22) 2-Nitrophenol-d4	9.44	143	169828	35.42	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.98	165	296798	27.01	ng/ul	0.00
29) 4-Chloroaniline-d4	10.49	131	387906	34.23	ng/ul	0.00
43) Dimethylphthalate-d6	13.63	166	932868	27.64	ng/ul	0.00
46) Acenaphthylene-d8	13.91	160	1106756	26.70	ng/ul	0.00
51) 4-Nitrophenol-d4	14.45	143	104384	19.59	ng/ul	0.00
57) Fluorene-d10	15.22	176	774169	27.33	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.37	200	71657	17.33	ng/ul	0.01
70) Anthracene-d10	17.08	188	1123573	29.16	ng/ul	0.00
78) Pyrene-d10	19.39	212	1114500	31.31	ng/ul	0.00
89) Benzo(a)pyrene-d12	23.28	264	894984	28.00	ng/ul	0.00

Target Compounds

					Ovalue
4) Benzaldehyde	6.75	77	17609	1.679	ng/ul# 1
6) Phenol	6.79	94	23336	1.533	ng/ul 94
11) 2-Methylphenol	8.03	108	28421	2.492	ng/ul 94
14) Acetophenone	8.38	105	23792	1.285	ng/ul# 47
16) 4-Methylphenol	8.35	108	27439	2.228	ng/ul 90
17) Hexachloroethane	8.67	117	102642	20.190	ng/ul# 6
32) Caprolactam	11.27	113	7288	2.221	ng/ul# 1
34) 2-Methylnaphthalene	12.04	142	15477551	591.822	ng/ul 98
40) 1,1'-Biphenyl	13.05	154	1622916	46.847	ng/ul# 98
44) Dimethylphthalate	13.68	163	77864	2.315	ng/ul# 97
47) Acenaphthylene	13.95	152	5310493	130.355	ng/ul# 95
49) Acenaphthene	14.29	153	651226	23.415	ng/ul 99
53) Dibenzofuran	14.62	168	1451602	36.251	ng/ul 99
54) 2,4-Dinitrotoluene	14.59	165	56595	6.761	ng/ul# 60
58) Fluorene	15.28	166	3771918	120.717	ng/ul 97
64) N-Nitrosodiphenylamine	15.49	169	116918	4.648	ng/ul# 85
69) Phenanthrene	17.03	178	13802850	308.365	ng/ul 96
71) Anthracene	17.12	178	3107827	68.157	ng/ul 99
74) Carbazole	17.38	167	327113	8.351	ng/ul 97
76) Fluoranthene	19.06	202	4231041	85.219	ng/ul# 95
79) Pyrene	19.42	202	5146590	114.881	ng/ul 95
82) Benzo(a)anthracene	21.20	228	1705301	39.397	ng/ul 93
84) Chrysene	21.25	228	1486441	37.002	ng/ul 97

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BNA_N
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Quant Title : SVOA CALIBRATION
QLast Update : Tue May 07 05:36:07 2019
Response via : Initial Calibration

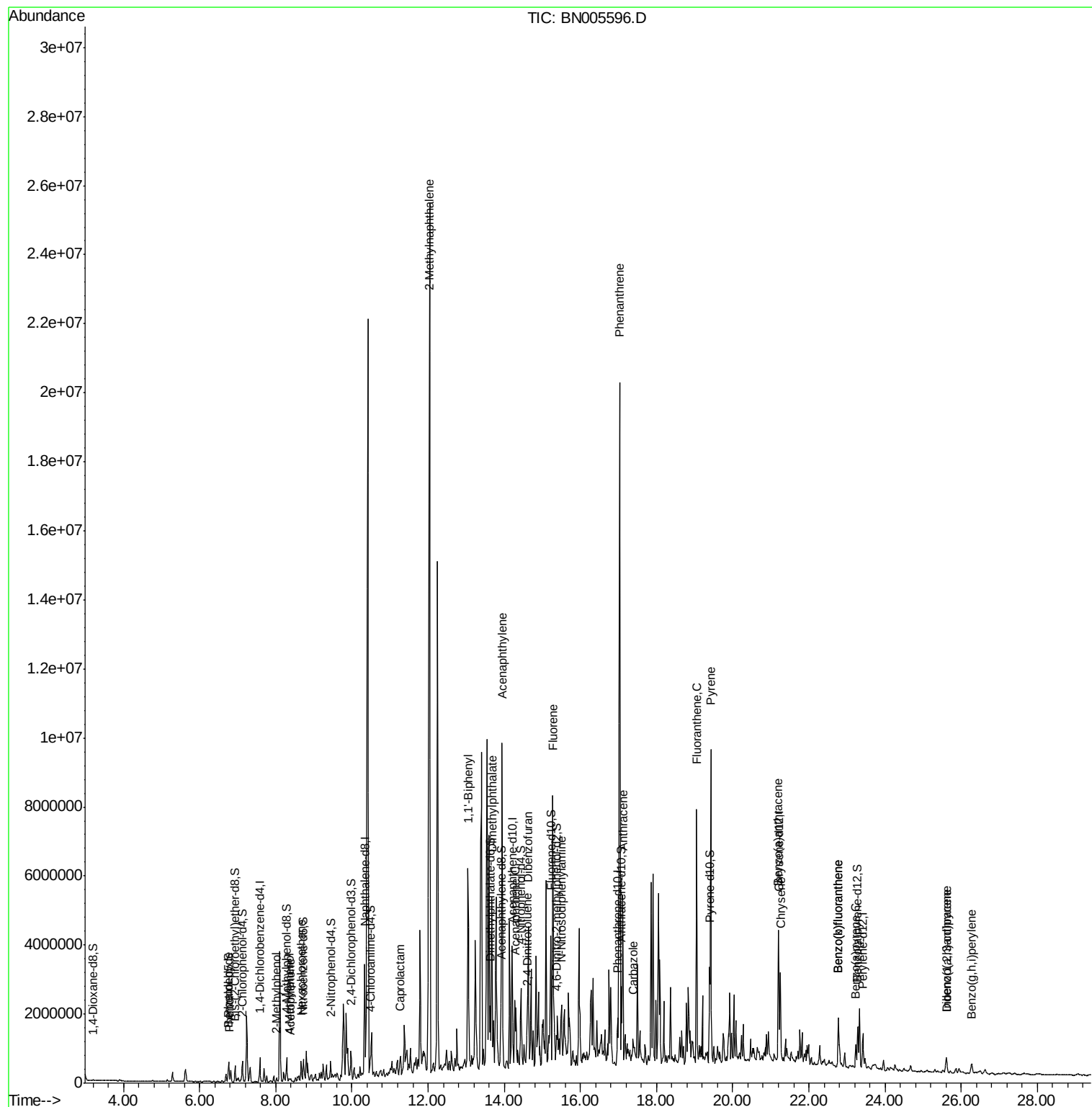
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
87) Benzo(b)fluoranthene	22.77	252	1037795	25.243	ng/ul	97
88) Benzo(k)fluoranthene	22.77	252	1037795	26.431	ng/ul	97
90) Benzo(a)pyrene	23.23	252	490464	12.692	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.61	276	406016	9.503	ng/ul#	94
92) Dibenzo(a,h)anthracene	25.61	278	133988	3.695	ng/ul#	81
93) Benzo(a,h,i)perylene	26.27	276	349940	9.906	ng/ul	95

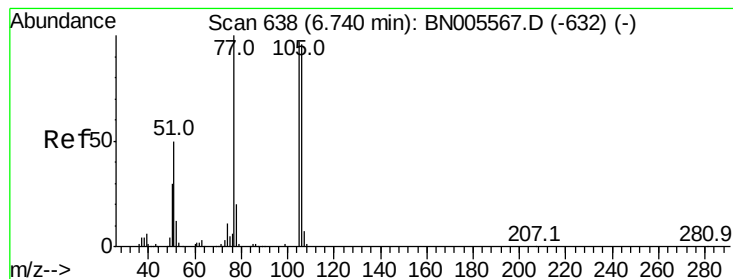
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.679 ng/ul

RT: 6.75 min Scan# 639

Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

ClientSampled :

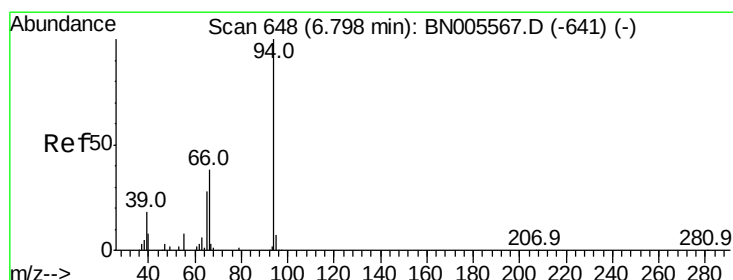
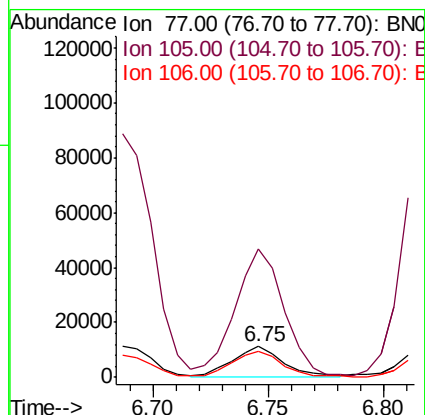
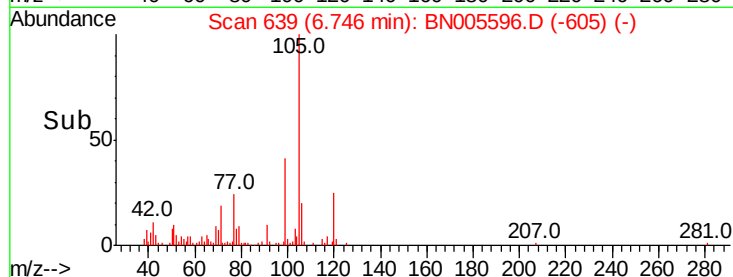
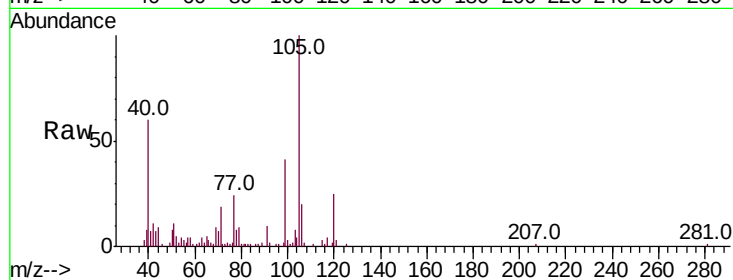
Tot Ion: 77 Resp: 17609

Ion Ratio Lower Upper

77 100

105 420.1 77.4 116.2#

106 85.8 76.3 114.5



#6

Phenol

Concen: 1.533 ng/ul

RT: 6.79 min Scan# 647

Delta R.T. -0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

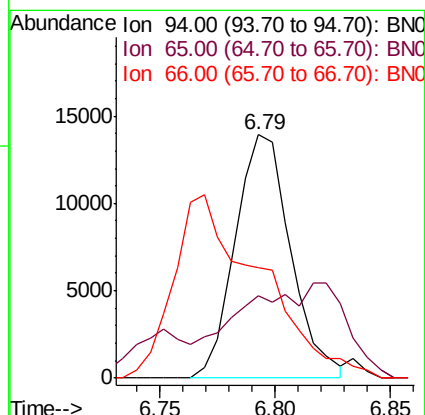
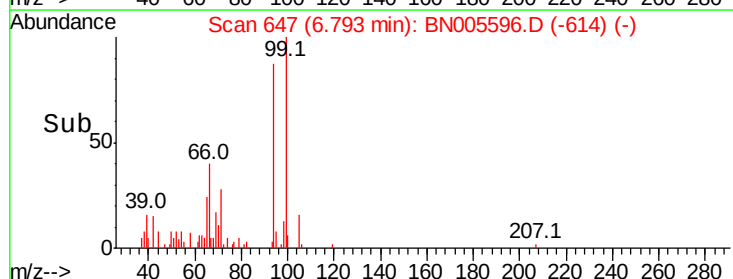
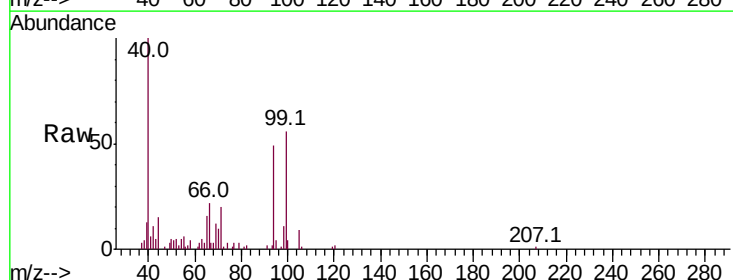
Tgt Ion: 94 Resp: 23336

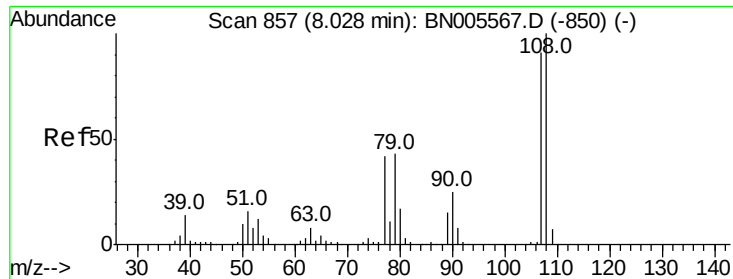
Ion Ratio Lower Upper

94 100

65 33.6 24.2 36.4

66 45.6 33.8 50.6





#11

2-Methylphenol

Concen: 2.492 ng/ul

RT: 8.03 min Scan# 857

Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

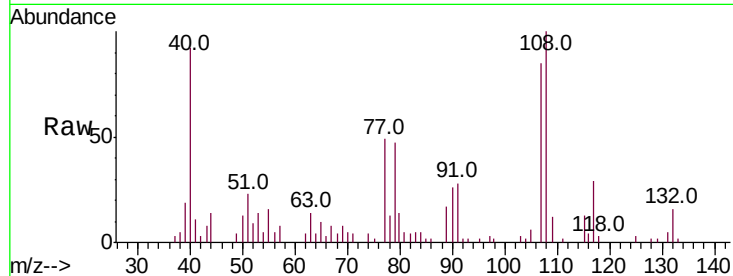
ClientSampled :

Tot Ion:108 Resp: 28421

Ion Ratio Lower Upper

108 100

107 85.3 72.9 109.3

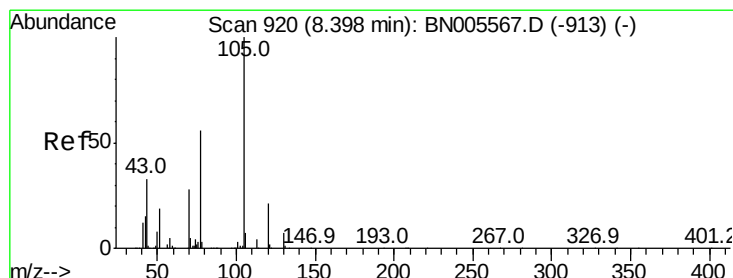
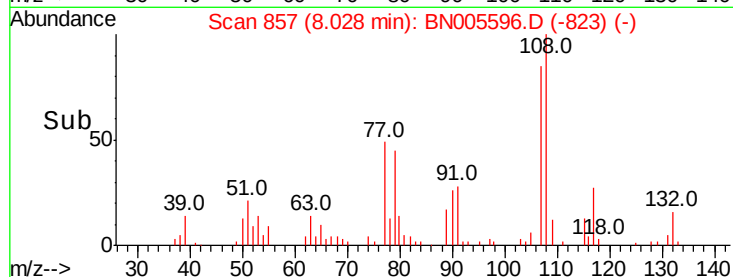


Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

8.03

Time-->



#14

Acetophenone

Concen: 1.285 ng/ul

RT: 8.38 min Scan# 916

Delta R.T. -0.02 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

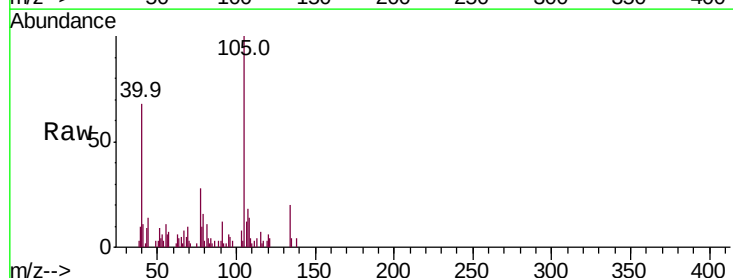
Tgt Ion:105 Resp: 23792

Ion Ratio Lower Upper

105 100

77 28.4 63.4 95.0#

51 8.8 24.2 36.4#



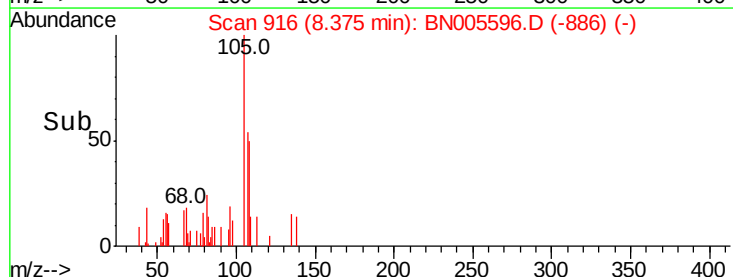
Abundance Ion 105.00 (104.70 to 105.70): E

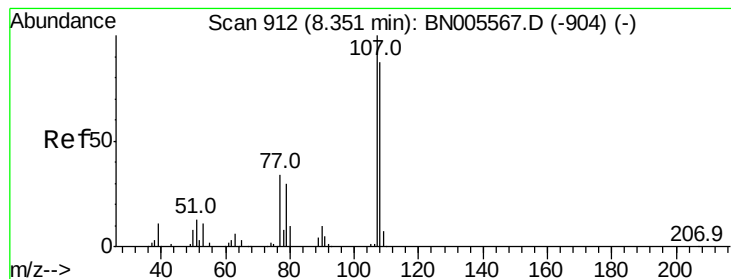
Ion 77.00 (76.70 to 77.70): BNC

Ion 51.00 (50.70 to 51.70): BNC

8.38

Time-->





#16

4-Methylphenol

Concen: 2.228 ng/ul

RT: 8.35 min Scan# 912

Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

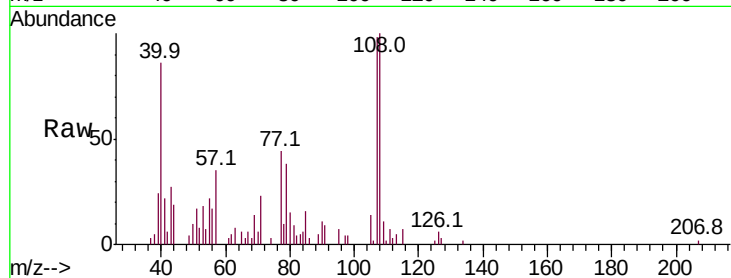
ClientSampled :

Tot Ion:108 Resp: 27439

Ion Ratio Lower Upper

108 100

107 97.7 86.1 129.1



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E

8.35

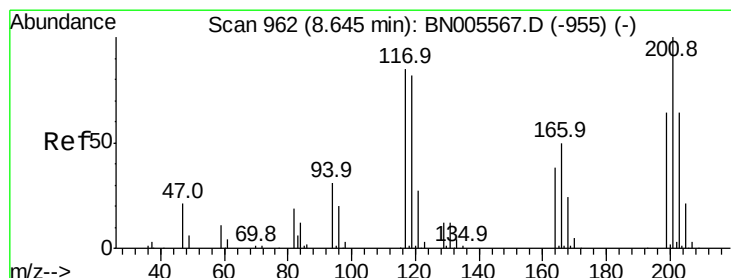
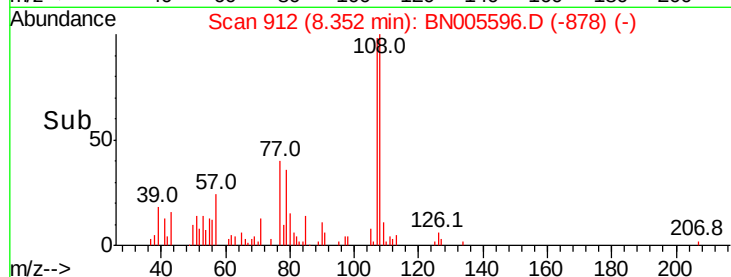
15000

10000

5000

0

Time--> 8.30 8.35 8.40 8.45



#17

Hexachloroethane

Concen: 20.190 ng/ul

RT: 8.67 min Scan# 966

Delta R.T. 0.02 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

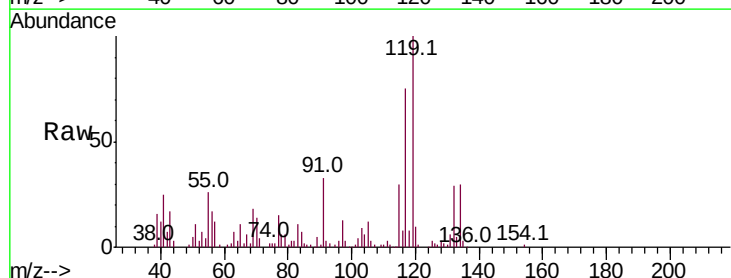
Tgt Ion:117 Resp: 102642

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

8.67

80000

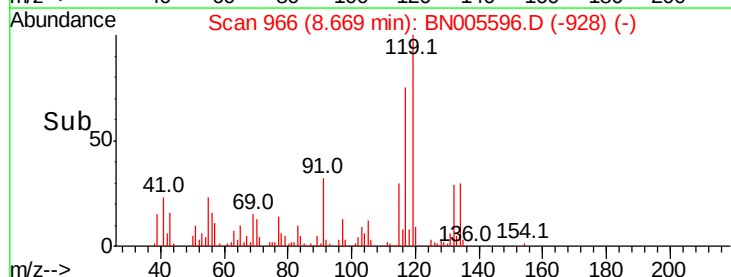
60000

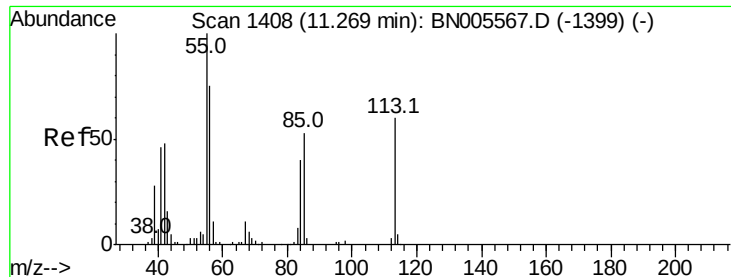
40000

20000

0

Time--> 8.65 8.70





#32

Caprolactam

Concen: 2.221 ng/ul

RT: 11.27 min Scan# 1409

Delta R.T. 0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

ClientSampled :

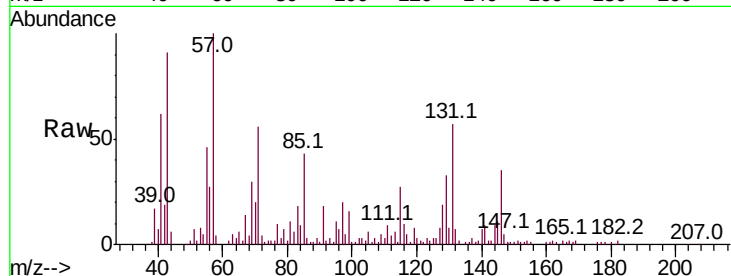
Tot Ion:113 Resp: 7288

Ion Ratio Lower Upper

113 100

55 836.5 157.0 235.4#

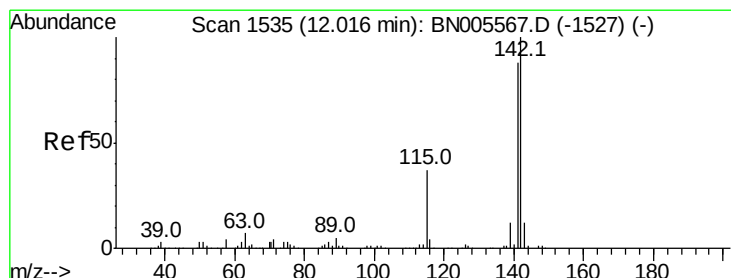
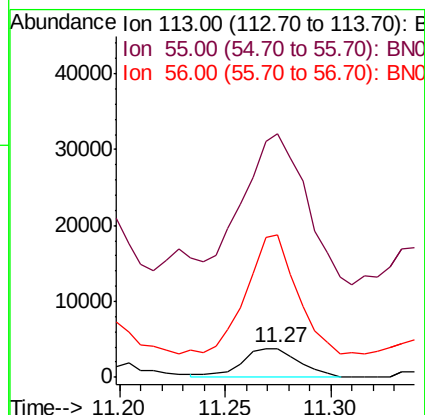
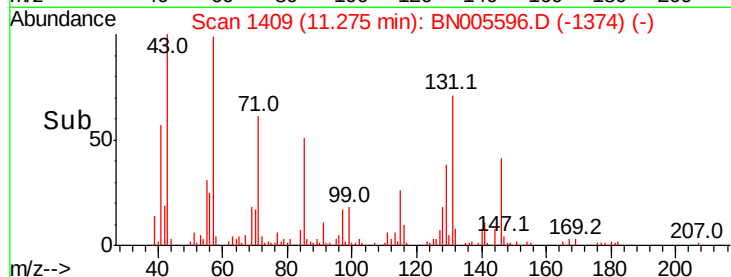
56 487.8 119.1 178.7#



Abundance Ion 113.00 (112.70 to 113.70): E

Ion 55.00 (54.70 to 55.70): BNO

Ion 56.00 (55.70 to 56.70): BNO



#34

2-Methylnaphthalene

Concen: 591.822 ng/ul

RT: 12.04 min Scan# 1539

Delta R.T. 0.02 min

Lab File: BN005596.D

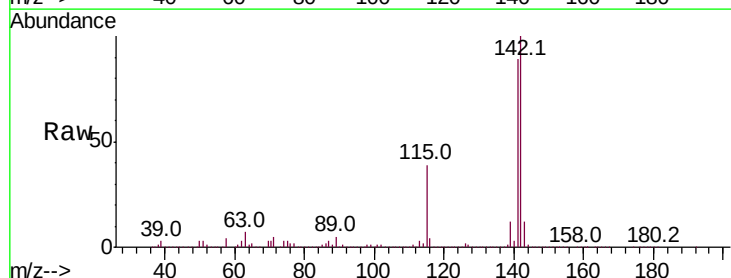
Acq: 10 May 2019 19:40

Tgt Ion:142 Resp:15477551

Ion Ratio Lower Upper

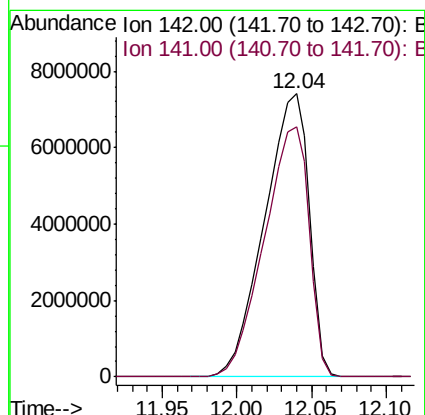
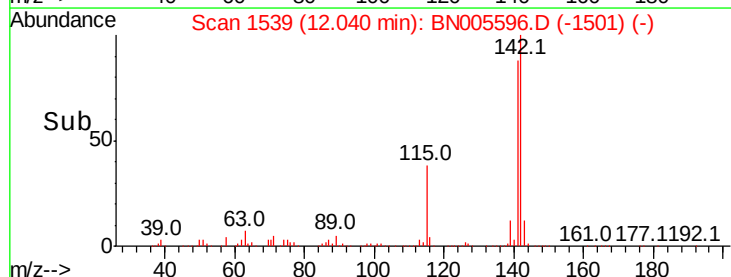
142 100

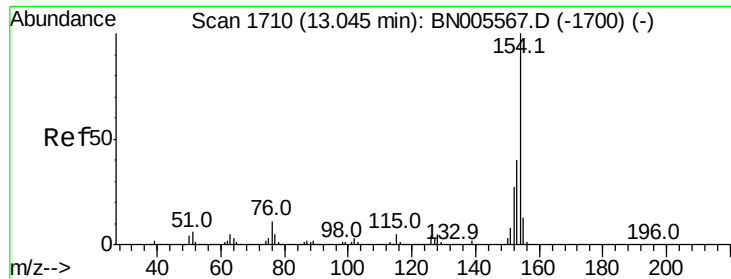
141 88.5 72.0 108.0



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E



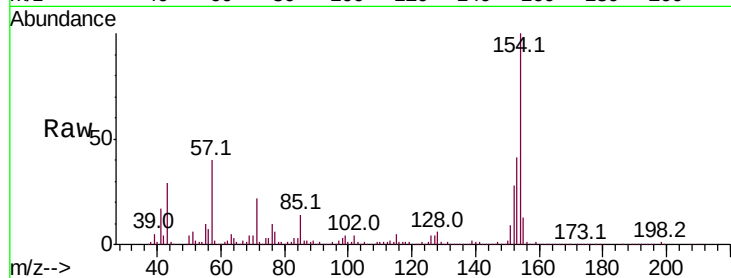


#40
 1,1'-Biphenyl
 Concen: 46.847 ng/ul
 RT: 13.05 min Scan# 1710
 Delta R.T. -0.01 min
 Lab File: BN005596.D
 Acq: 10 May 2019 19:40

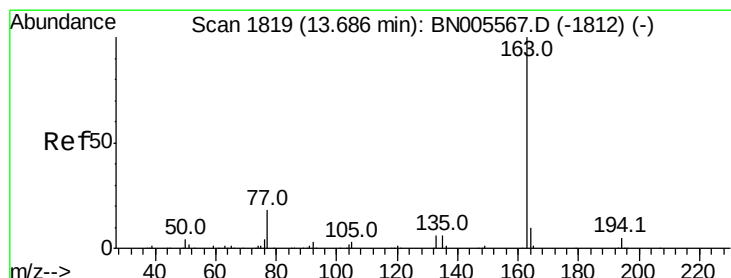
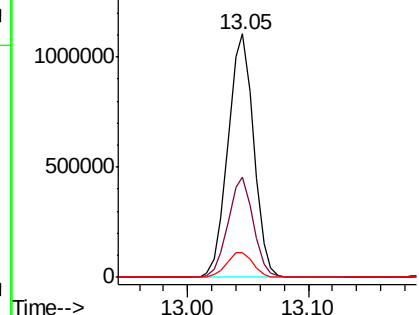
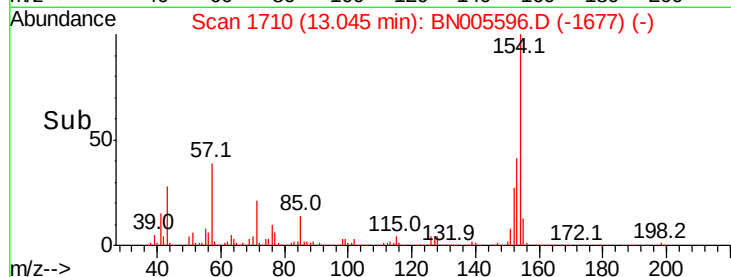
Instrument :
 BNA_N
 ClientSampleId :

Tot Ion:154 Resp: 1622916

Ion	Ratio	Lower	Upper
154	100		
153	41.3	32.6	49.0
76	10.3	10.4	15.6



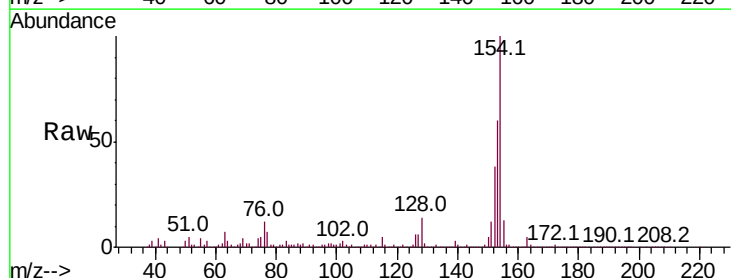
Abundance Ion 154.00 (153.70 to 154.70): E
 Ion 153.00 (152.70 to 153.70): E
 Ion 76.00 (75.70 to 76.70): BNO



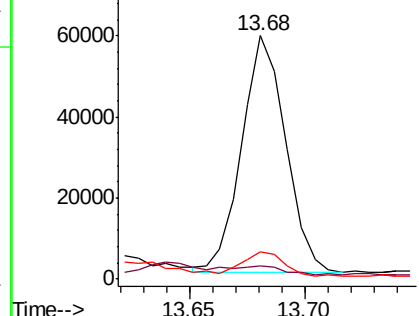
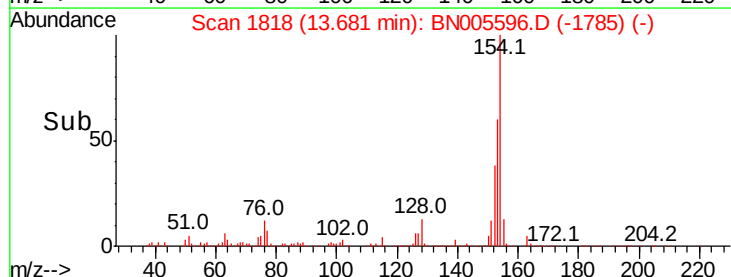
#44
 Dimethylphthalate
 Concen: 2.315 ng/ul
 RT: 13.68 min Scan# 1818
 Delta R.T. -0.01 min
 Lab File: BN005596.D
 Acq: 10 May 2019 19:40

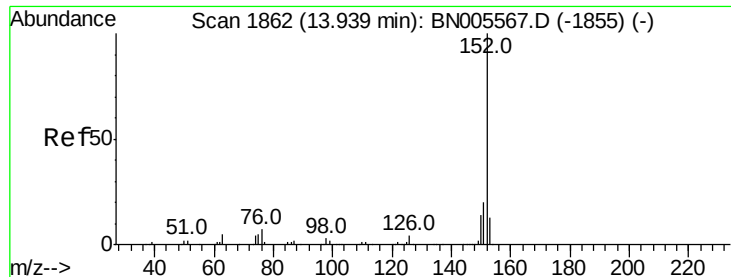
Tgt Ion:163 Resp: 77864

Ion	Ratio	Lower	Upper
163	100		
194	5.2	3.4	5.0
164	11.0	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





#47

Acenaphthylene

Concen: 130.355 ng/ul

RT: 13.95 min Scan# 1863

Delta R.T. 0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

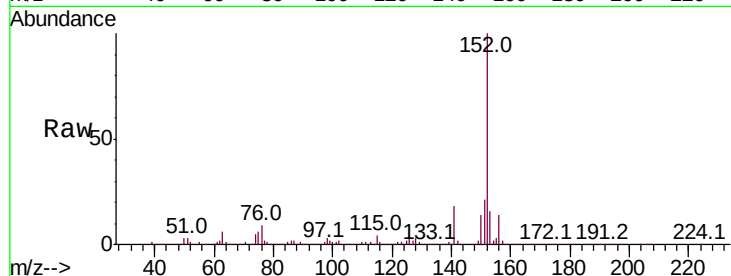
Instrument :

BNA_N

ClientSampleId :

Tot Ion:152 Resp: 5310493

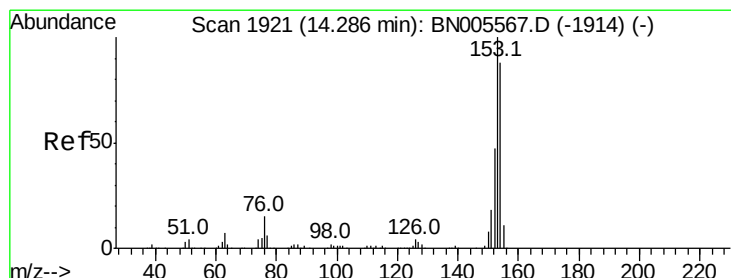
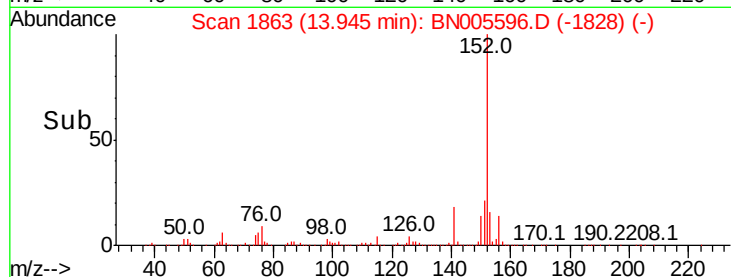
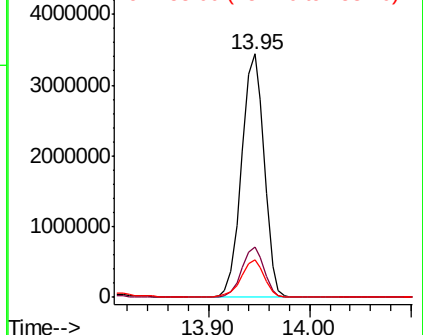
Ion	Ratio	Lower	Upper
152	100		
151	20.8	15.8	23.8
153	15.6	9.8	14.8#



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: 23.415 ng/ul

RT: 14.29 min Scan# 1921

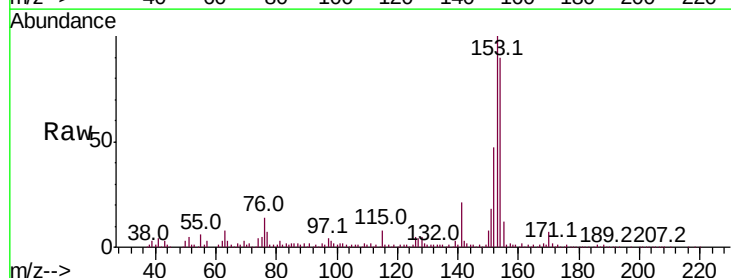
Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Tgt Ion:153 Resp: 651226

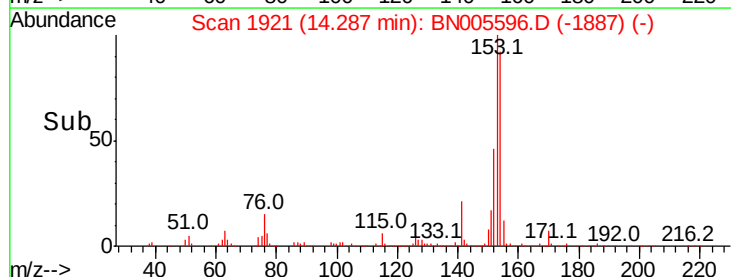
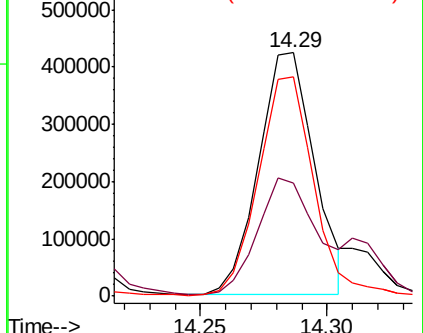
Ion	Ratio	Lower	Upper
153	100		
152	46.6	37.4	56.0
154	90.0	71.2	106.8

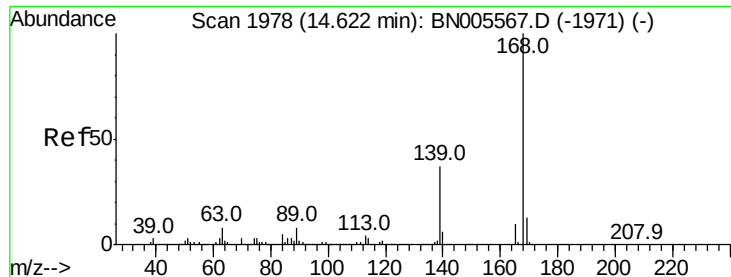


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzenofuran

Concen: 36.251 ng/ul

RT: 14.62 min Scan# 1978

Delta R.T. -0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

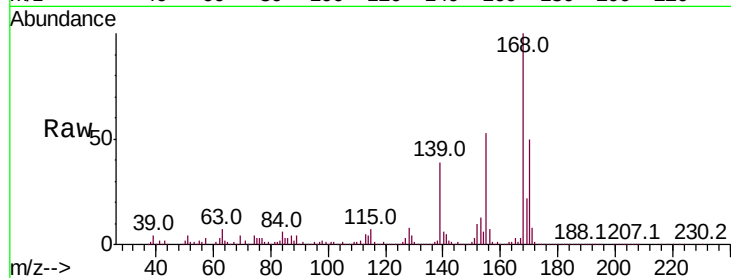
ClientSampled :

Tot Ion:168 Resp: 1451602

Ion Ratio Lower Upper

168 100

139 39.4 30.9 46.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

14.62

1000000

800000

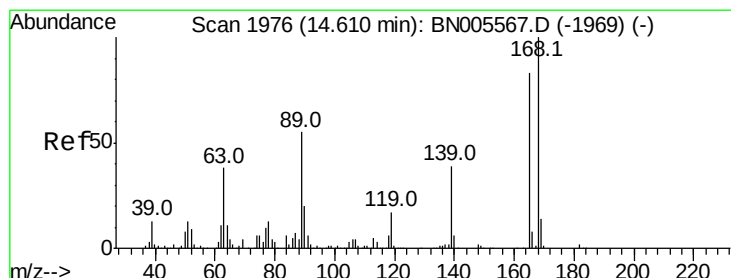
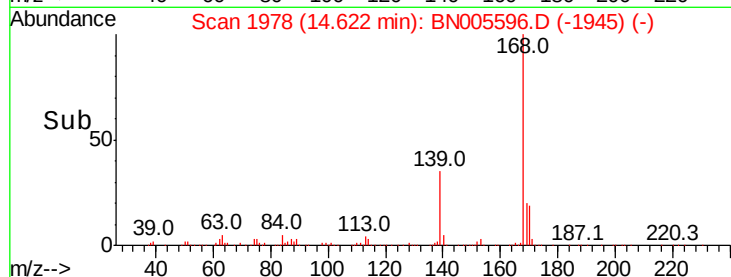
600000

400000

200000

0

Time-->



#54

2,4-Dinitrotoluene

Concen: 6.761 ng/ul

RT: 14.59 min Scan# 1973

Delta R.T. -0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

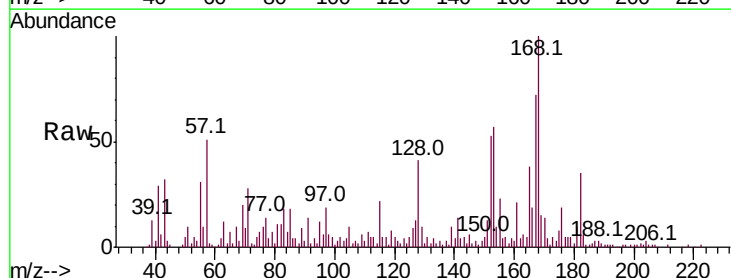
Tgt Ion:165 Resp: 56595

Ion Ratio Lower Upper

165 100

63 31.8 38.9 58.3#

182 92.2 2.6 3.8#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BNC

Ion 182.00 (181.70 to 182.70): E

80000

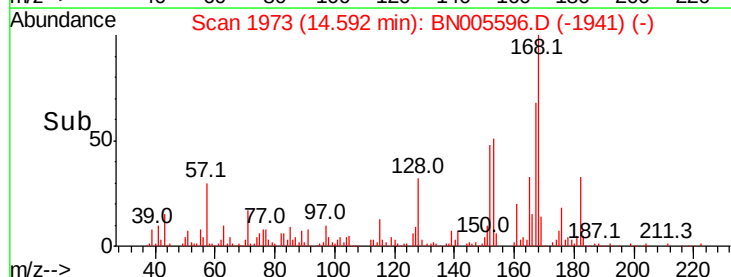
60000

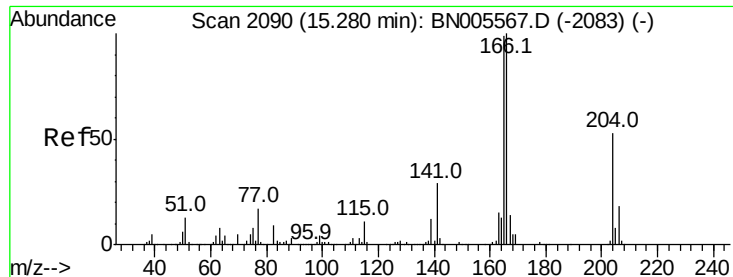
40000

20000

0

Time-->

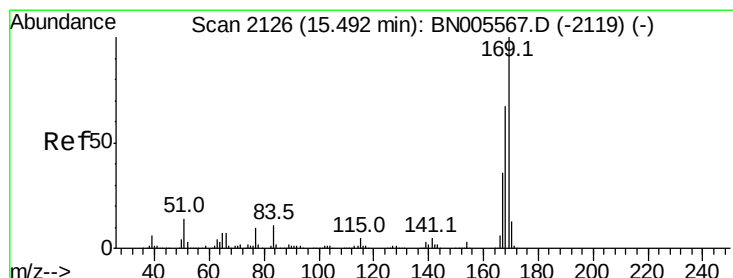
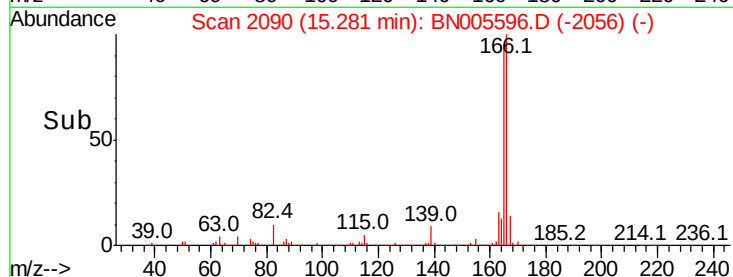
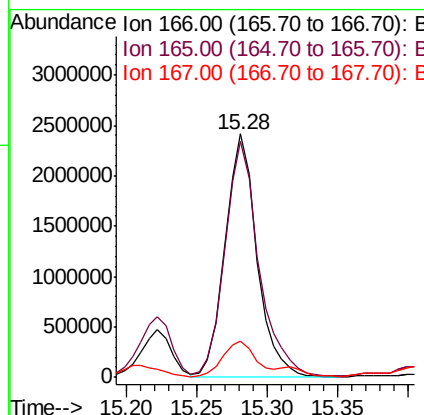
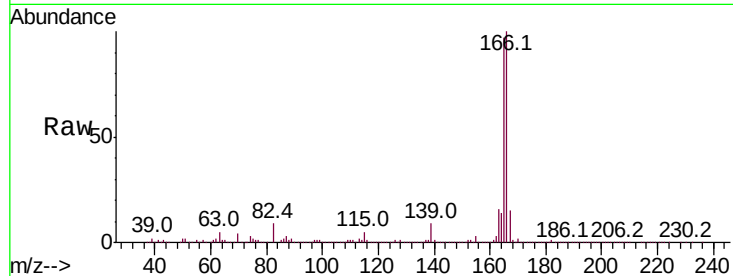




#58
 Fluorene
 Concen: 120.717 ng/ul
 RT: 15.28 min Scan# 2090
 Delta R.T. -0.00 min
 Lab File: BN005596.D
 Acq: 10 May 2019 19:40

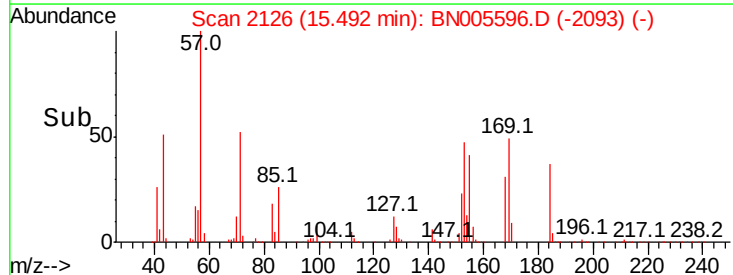
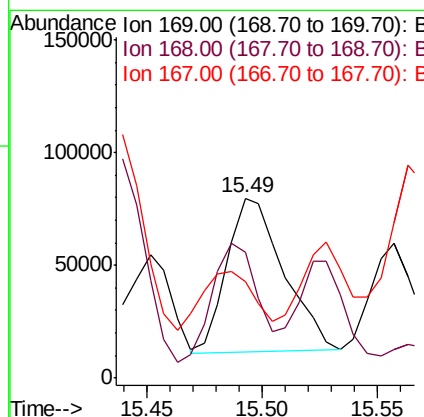
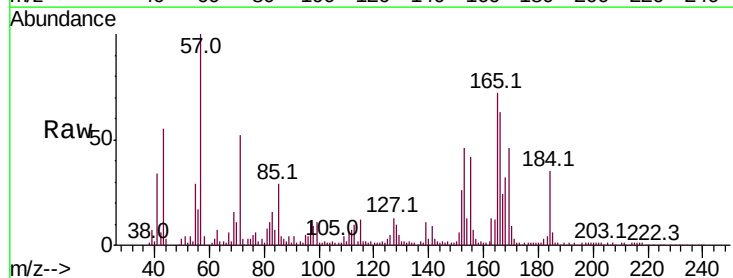
Instrument :
 BNA_N
 ClientSampleId :

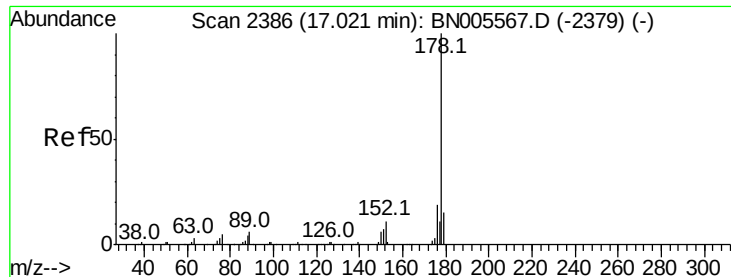
Tot Ion:166 Resp: 3771918
 Ion Ratio Lower Upper
 166 100
 165 97.0 80.0 120.0
 167 14.8 10.7 16.1



#64
 N-Nitrosodiphenylamine
 Concen: 4.648 ng/ul
 RT: 15.49 min Scan# 2126
 Delta R.T. -0.01 min
 Lab File: BN005596.D
 Acq: 10 May 2019 19:40

Tgt Ion:169 Resp: 116918
 Ion Ratio Lower Upper
 169 100
 168 70.1 52.2 78.2
 167 53.2 27.7 41.5#





#69

Phenanthrene

Concen: 308.365 ng/ul

RT: 17.03 min Scan# 2388

Delta R.T. 0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

ClientSampleId :

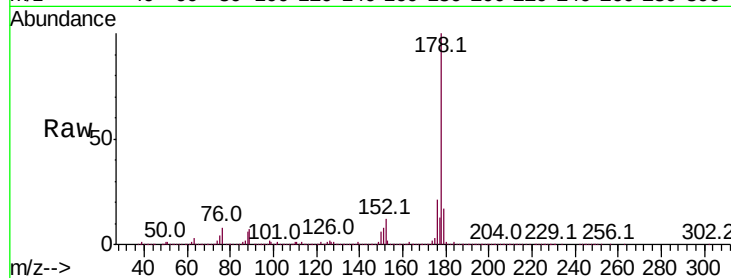
Tot Ion:178 Resp:13802850

Ion Ratio Lower Upper

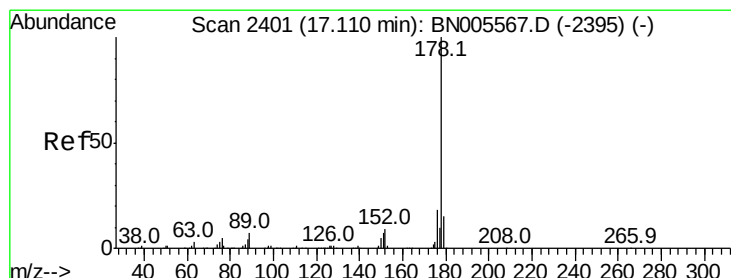
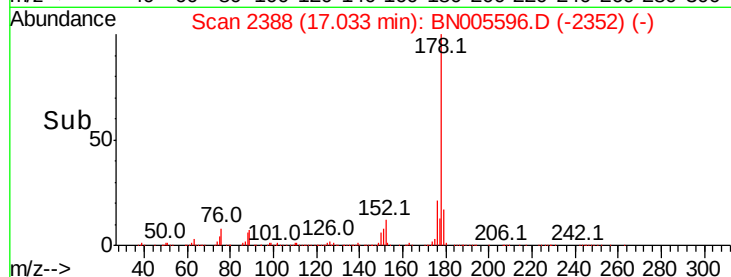
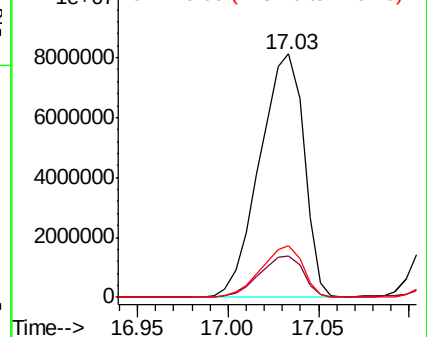
178 100

179 17.1 12.2 18.4

176 21.0 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: 68.157 ng/ul

RT: 17.12 min Scan# 2402

Delta R.T. 0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

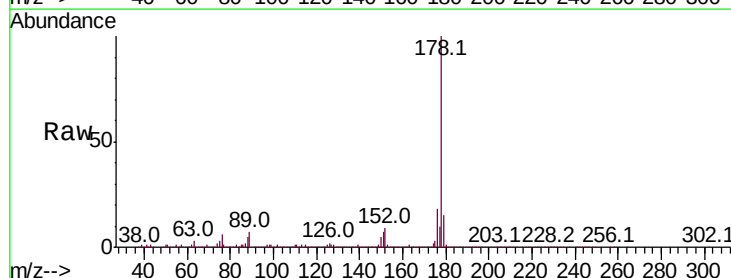
Tgt Ion:178 Resp: 3107827

Ion Ratio Lower Upper

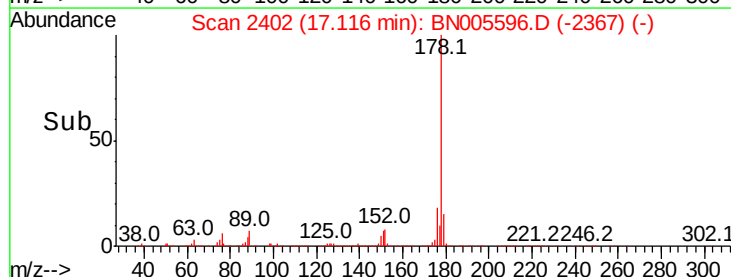
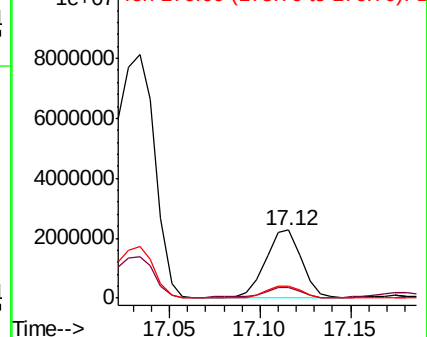
178 100

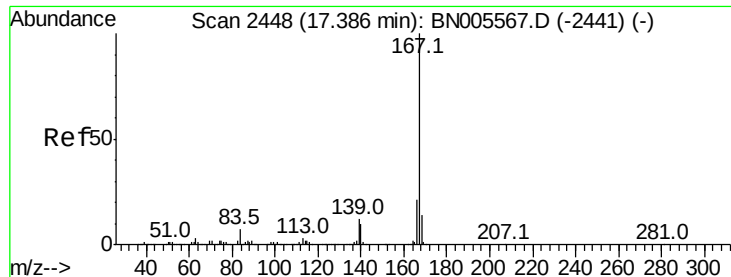
179 15.5 12.3 18.5

176 18.4 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: 8.351 ng/ul

RT: 17.38 min Scan# 2447

Delta R.T. -0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

ClientSampleId :

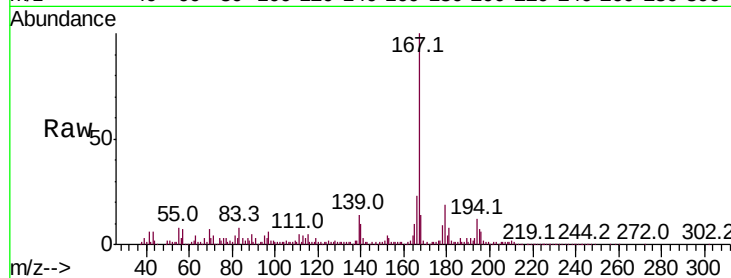
Tot Ion:167 Resp: 327113

Ion Ratio Lower Upper

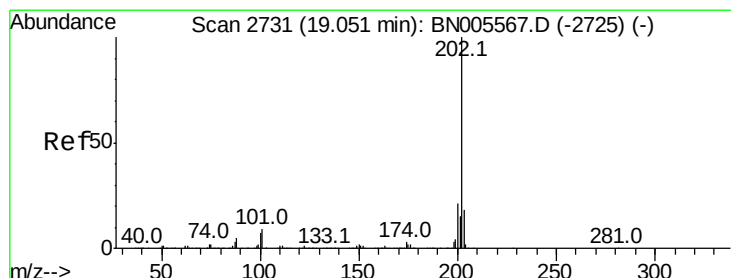
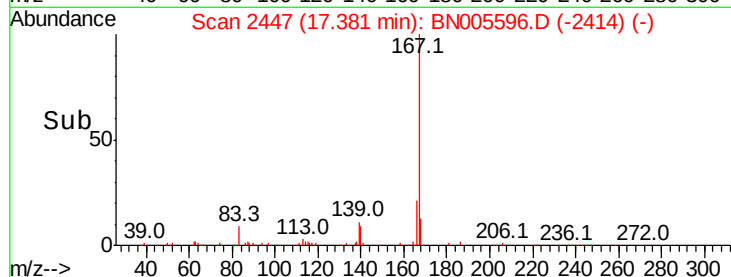
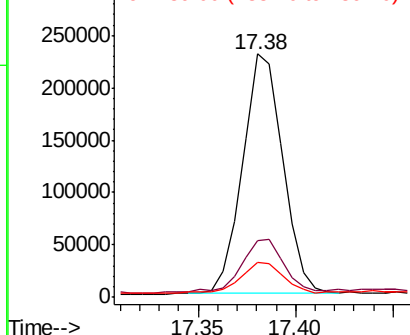
167 100

166 23.3 17.2 25.8

139 14.1 10.6 16.0



Abundance Ion 167.00 (166.70 to 167.70): E
Ion 166.00 (165.70 to 166.70): E
Ion 139.00 (138.70 to 139.70): E



#76

Fluoranthene

Concen: 85.219 ng/ul

RT: 19.06 min Scan# 2732

Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

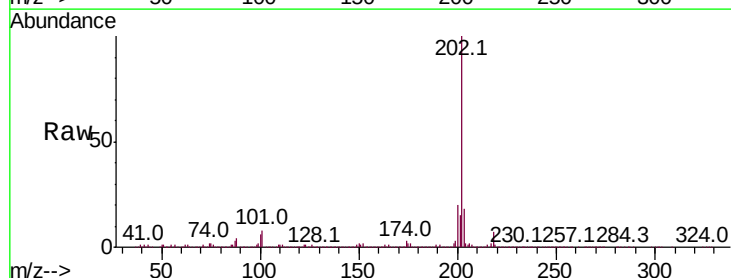
Tgt Ion:202 Resp: 4231041

Ion Ratio Lower Upper

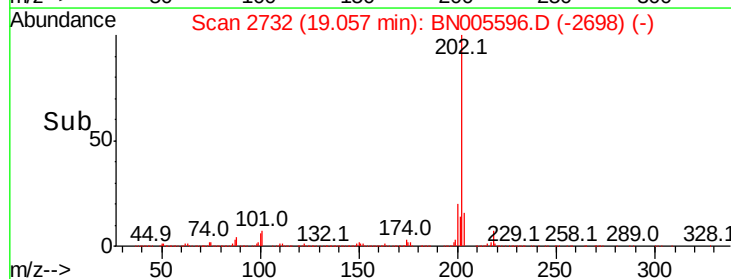
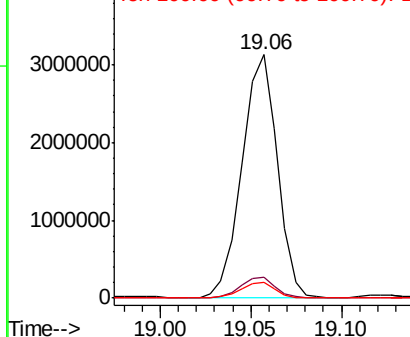
202 100

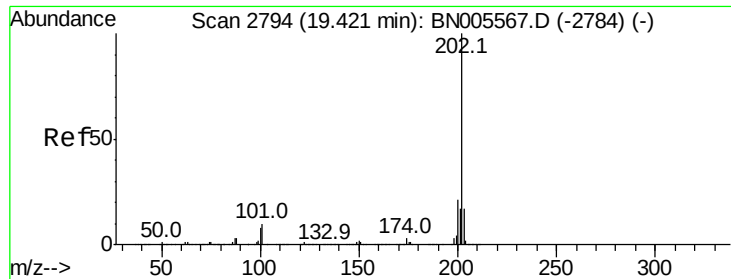
101 8.3 8.6 12.8#

100 6.4 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

Pvrene

Concen: 114.881 ng/ul

RT: 19.42 min Scan# 2794

Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

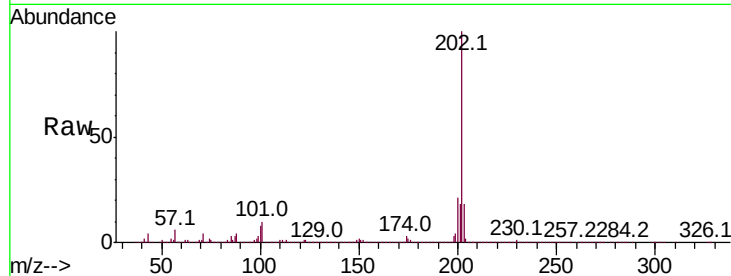
Instrument :

BNA_N

ClientSampleId :

Tot Ion:202 Resp: 5146590

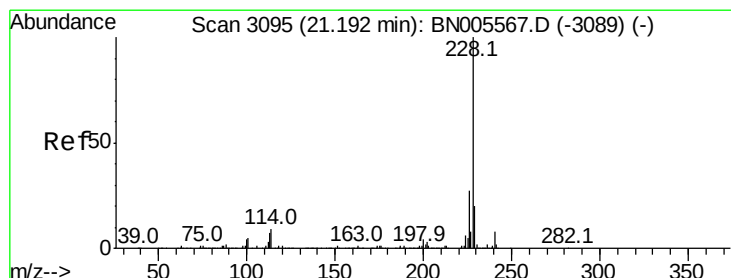
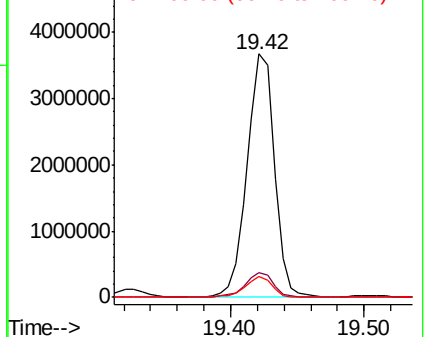
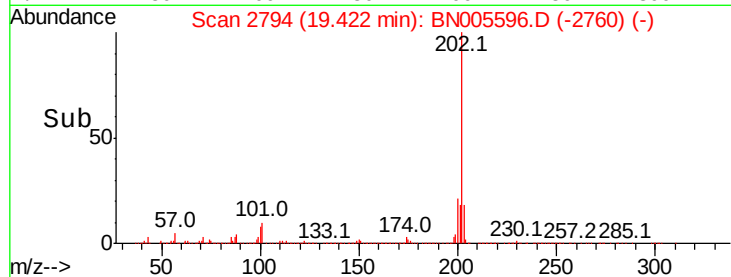
Ion	Ratio	Lower	Upper
202	100		
101	10.4	10.3	15.5
100	8.3	7.9	11.9



Abundance Ion 202.00 (201.70 to 202.70): E

5000000 Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#82

Benzo(a)anthracene

Concen: 39.397 ng/ul

RT: 21.20 min Scan# 3096

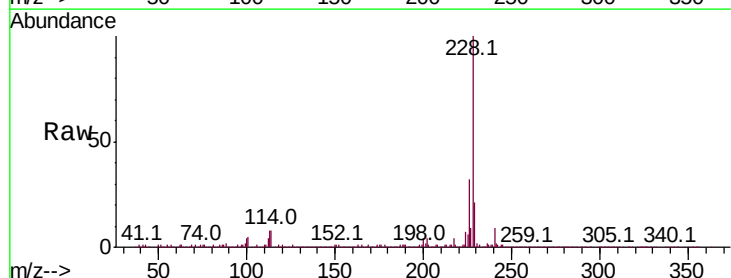
Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Tgt Ion:228 Resp: 1705301

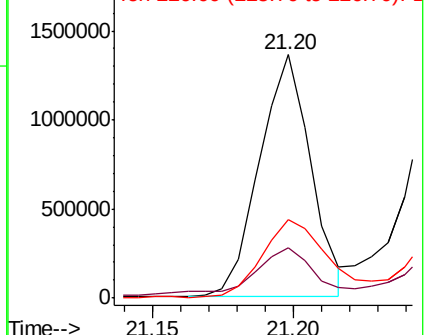
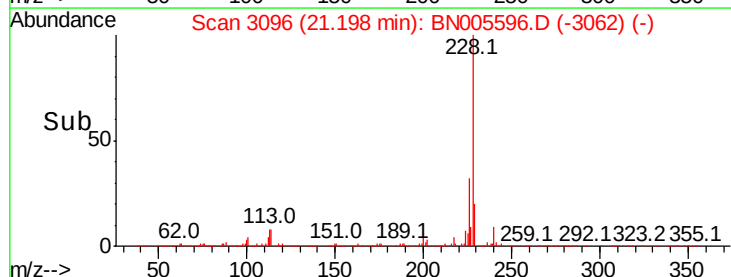
Ion	Ratio	Lower	Upper
228	100		
229	20.6	15.8	23.6
226	32.1	21.4	32.2

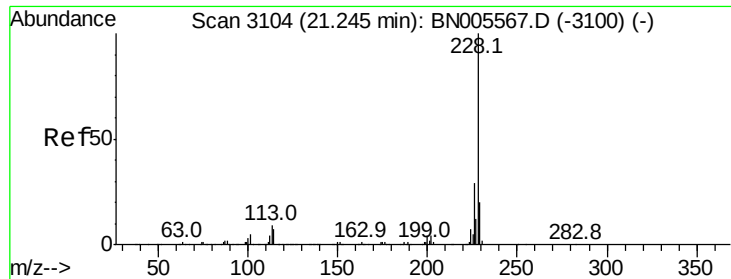


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 37.002 ng/ul

RT: 21.25 min Scan# 3105

Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

ClientSampleId :

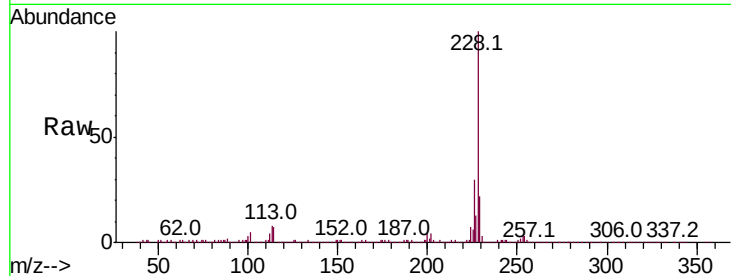
Tot Ion:228 Resp: 1486441

Ion Ratio Lower Upper

228 100

226 30.3 24.0 36.0

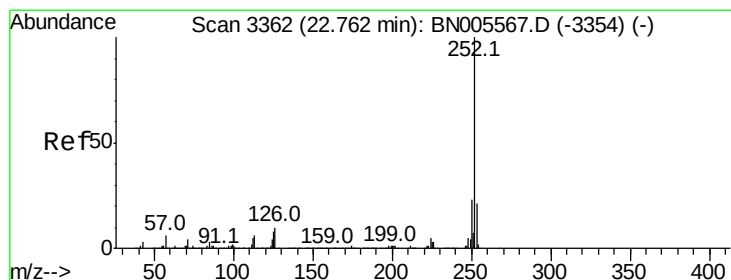
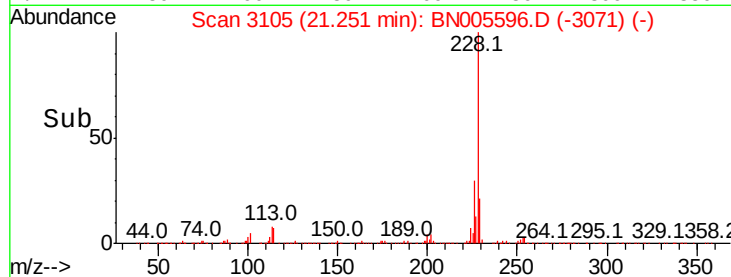
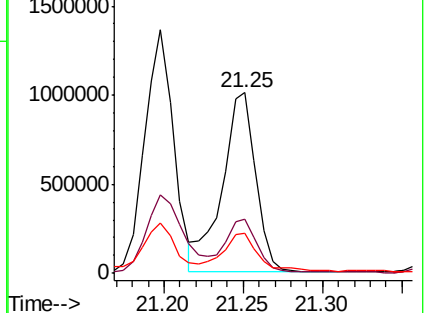
229 21.9 15.4 23.0



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: 25.243 ng/ul

RT: 22.77 min Scan# 3364

Delta R.T. 0.01 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

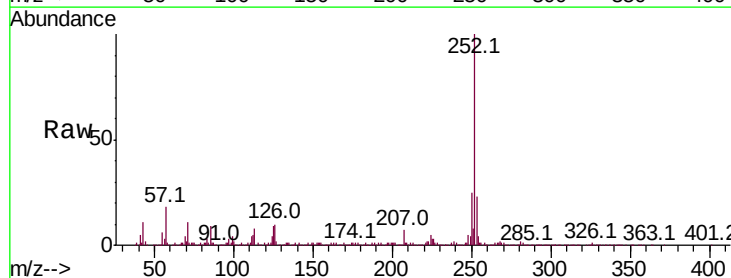
Tgt Ion:252 Resp: 1037795

Ion Ratio Lower Upper

252 100

253 23.3 17.7 26.5

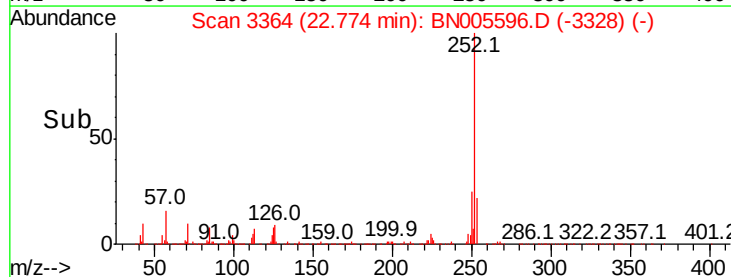
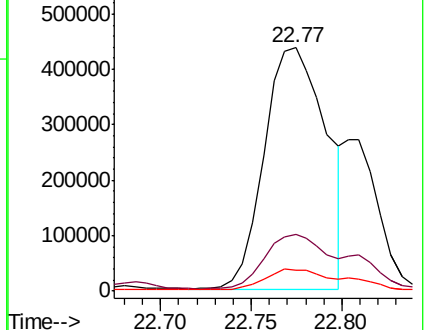
125 8.7 8.4 12.6

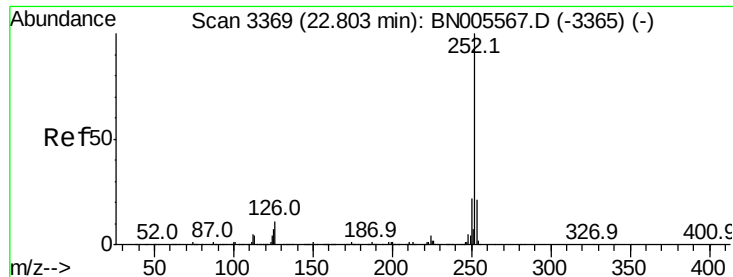


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(k)fluoranthene

Concen: 26.431 ng/ul

RT: 22.77 min Scan# 3364

Delta R.T. -0.04 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

ClientSampled :

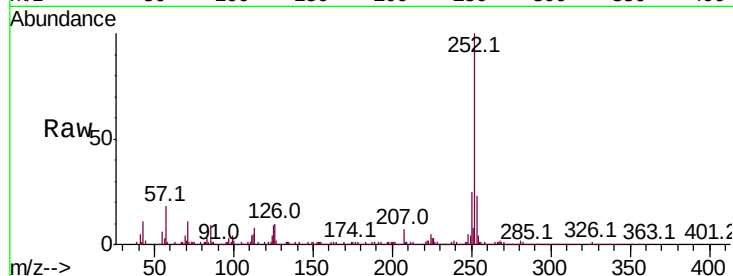
Tot Ion:252 Resp: 1037795

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

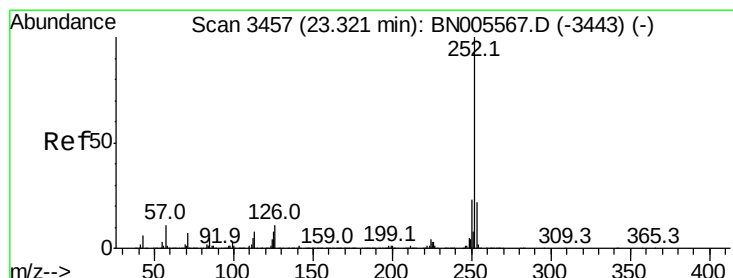
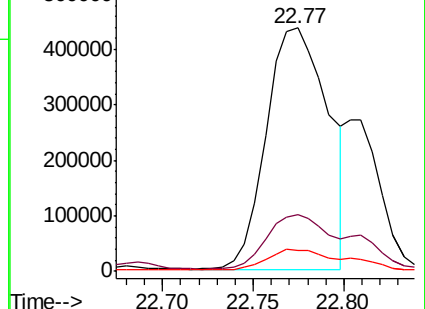
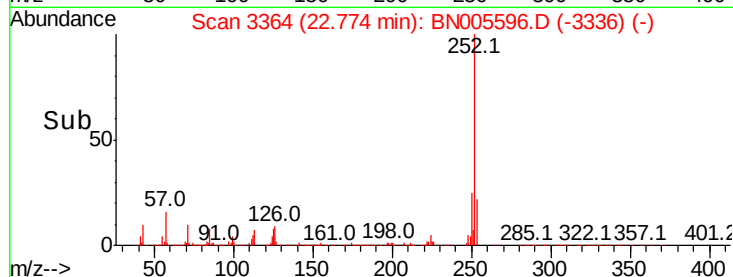
125 8.7 7.5 11.3



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: 12.692 ng/ul

RT: 23.23 min Scan# 3442

Delta R.T. -0.09 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

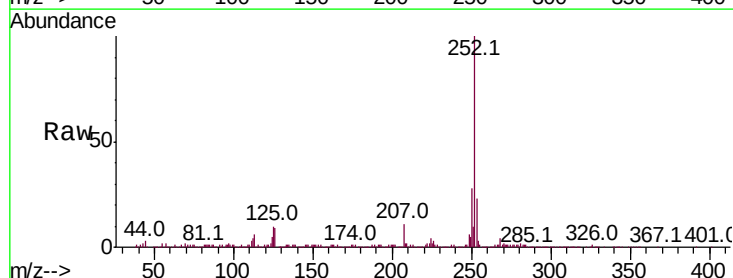
Tgt Ion:252 Resp: 490464

Ion Ratio Lower Upper

252 100

253 22.9 17.3 25.9

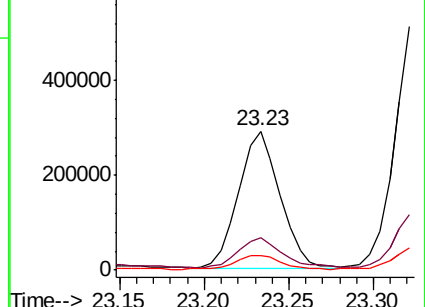
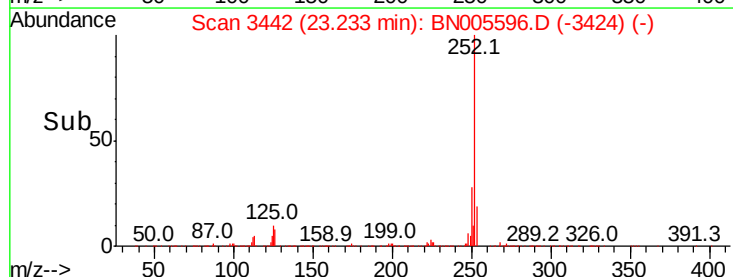
125 10.3 8.6 13.0

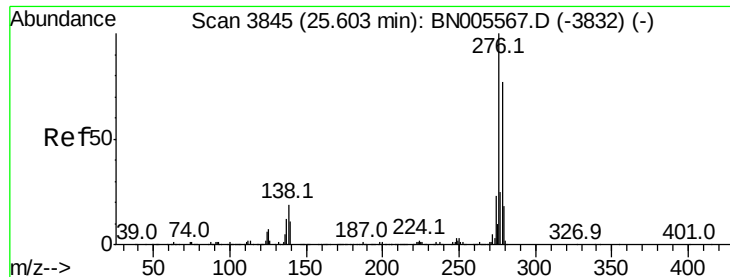


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



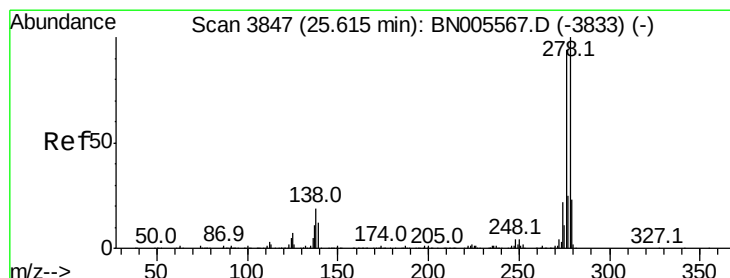
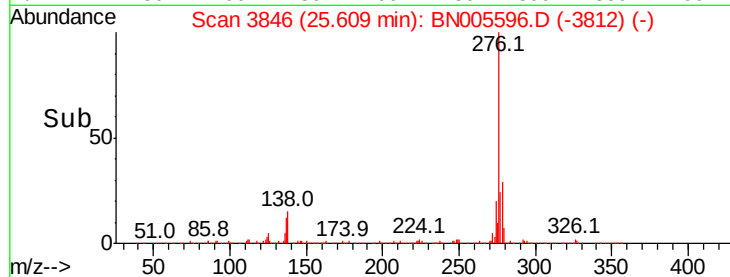
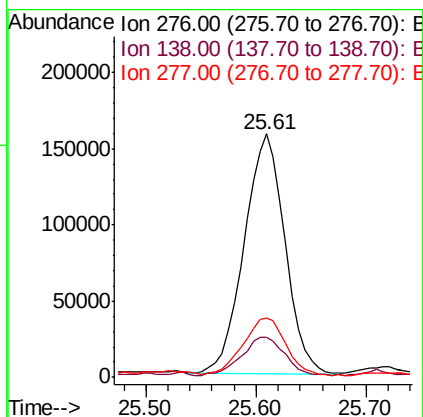
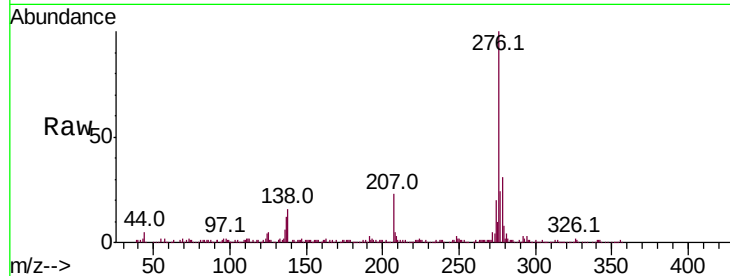


#91

Indeno(1,2,3-cd)pyrene
Concen: 9.503 ng/ul
RT: 25.61 min Scan# 3846
Delta R.T. -0.00 min
Lab File: BN005596.D
Acq: 10 May 2019 19:40

Instrument :
BNA_N
ClientSampleId :

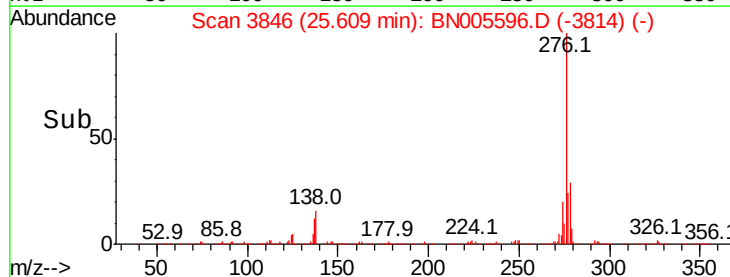
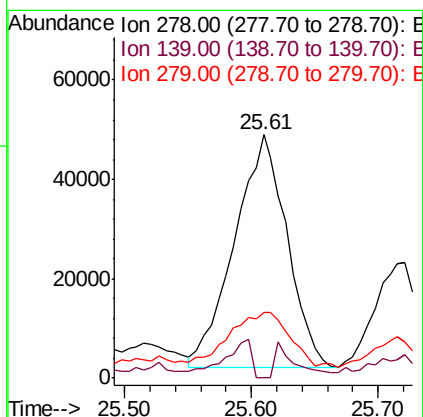
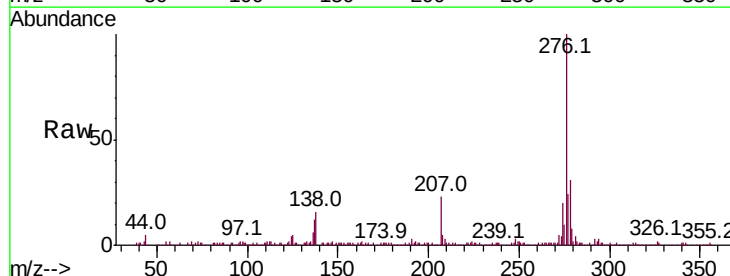
Tot Ion	Ratio	Lower	Upper
276	100		
138	16.2	17.9	26.9#
277	24.4	19.7	29.5

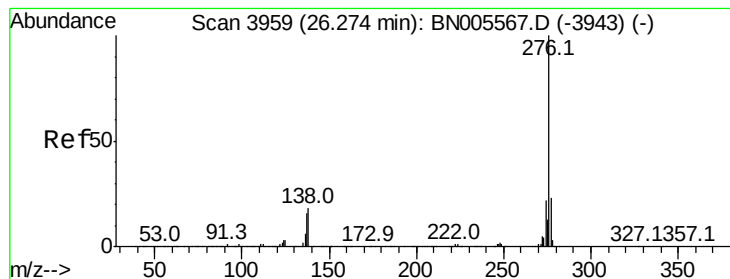


#92

Dibenzo(a,h)anthracene
Concen: 3.695 ng/ul
RT: 25.61 min Scan# 3846
Delta R.T. -0.01 min
Lab File: BN005596.D
Acq: 10 May 2019 19:40

Tgt Ion	Ratio	Lower	Upper
278	100		
139	0.0	13.1	19.7#
279	27.0	19.4	29.0





#93

Benzo(a,h,i)perylene

Concen: 9.906 ng/ul

RT: 26.27 min Scan# 3959

Delta R.T. -0.00 min

Lab File: BN005596.D

Acq: 10 May 2019 19:40

Instrument :

BNA_N

ClientSampleId :

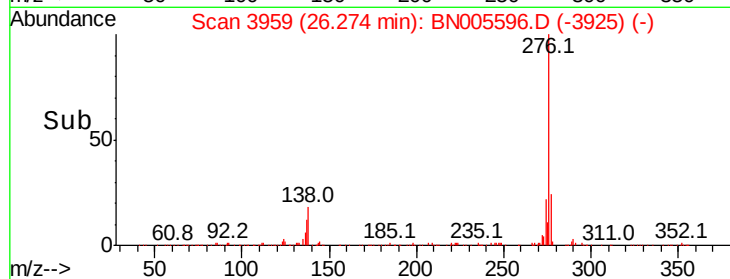
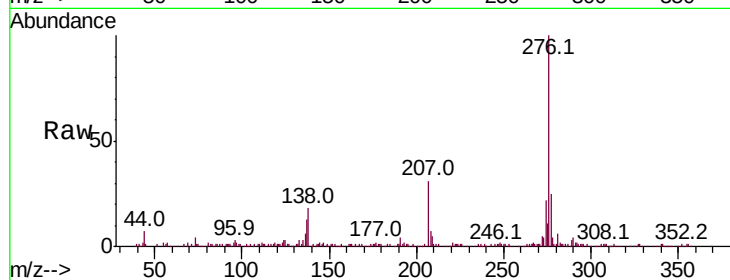
Tot Ion:276 Resp: 349940

Ion Ratio Lower Upper

276 100

138 18.3 16.7 25.1

277 24.8 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

