

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN012820\
 Data File : BN009450.D
 Acq On : 28 Jan 2020 14:37
 Operator : CG/JU
 Sample : L1193-18MSD
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GASP4MSD

Manual Integrations
 APPROVED

mohammad
 1/30/2020 8:03:38 AM

Quant Time: Jan 28 15:15:24 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_N\METHODS\SOM-EPA-BN012220MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jan 22 15:13:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.46	152	177119	20.00	ng/ul	0.00
18) Naphthalene-d8	10.22	136	747206	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.11	164	697491	20.00	ng/ul	0.01
61) Phenanthrene-d10	16.87	188	875573m	20.00	ng/ul	0.02
77) Chrysene-d12	21.07	240	716690	20.00	ng/ul	0.02
85) Perylene-d12	23.20	264	869917	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.09	96	15111	3.53	ng/uL	0.00
5) Phenol-d5	6.66	99	347490	22.12	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.81	67	239662	21.49	ng/ul	0.00
9) 2-Chlorophenol-d4	7.00	132	276774	24.14	ng/ul	0.00
13) 4-Methylphenol-d8	8.17	113	292578	23.40	ng/ul	0.00
19) Nitrobenzene-d5	8.60	128	142387	26.19	ng/ul	0.00
22) 2-Nitrophenol-d4	9.32	143	165160	28.98	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.85	165	287572	25.45	ng/ul	0.00
29) 4-Chloroaniline-d4	10.36	131	177116	12.98	ng/ul	0.00
43) Dimethylphthalate-d6	13.55	166	750600	14.54	ng/ul	0.03
46) Acenaphthylene-d8	13.82	160	1022475	16.69	ng/ul	0.04
51) 4-Nitrophenol-d4	14.35	143	219872	22.89	ng/ul	0.02
57) Fluorene-d10	15.12	176	758989	16.75	ng/ul	0.02
62) 4,6-Dinitro-2-methylphenol	15.30	200	85180m	16.07	ng/ul	0.07
70) Anthracene-d10	16.99	188	1089118	26.89	ng/ul	0.05
78) Pyrene-d10	19.27	212	1140903	29.59	ng/ul	0.02
89) Benzo(a)pyrene-d12	23.06	264	1146746	26.11	ng/ul	0.02

Target Compounds

					Ovalue
4) Benzaldehyde	6.62	77	10202	1.237	ng/ul 95
6) Phenol	6.68	94	396666	24.106	ng/ul 95
10) 2-Chlorophenol	7.03	128	269616	22.599	ng/ul 91
14) Acetophenone	8.28	105	64076	3.173	ng/ul 95
15) N-Nitroso-di-n-propylamine	8.26	70	237668	21.669	ng/ul 90
24) 2,4-Dimethylphenol	9.42	107	21890	1.520	ng/ul# 85
28) Naphthalene	10.28	128	14146036	351.803	ng/ul 98
33) 4-Chloro-3-methylphenol	11.59	107	332262m	24.740	ng/ul
34) 2-Methylnaphthalene	11.90	142	68335194m	2468.583	ng/ul
40) 1,1'-Biphenyl	12.93	154	4900409	92.784	ng/ul 99
44) Dimethylphthalate	13.60	163	247188	4.651	ng/ul 97
47) Acenaphthylene	13.86	152	16123471	243.843	ng/ul# 92
49) Acenaphthene	14.19	153	4499371	99.742	ng/ul 97
52) 4-Nitrophenol	14.36	109	129311	14.542	ng/ul# 25
53) Dibenzofuran	14.52	168	6485102	103.471	ng/ul 95
54) 2,4-Dinitrotoluene	14.49	165	336135	22.287	ng/ul# 47
58) Fluorene	15.19	166	16512792	314.426	ng/ul 98
68) Pentachlorophenol	16.55	266	149119m	26.206	ng/ul
69) Phenanthrene	16.91	178	44354818m	897.799	ng/ul
71) Anthracene	17.02	178	5941832	118.124	ng/ul 98
76) Fluoranthene	18.95	202	17739393m	313.228	ng/ul
79) Pyrene	19.30	202	23718041m	457.055	ng/ul
82) Benzo(a)anthracene	21.06	228	11052514	226.461	ng/ul# 94

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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
84) Chrysene	21.12	228	10491198	220.667	ng/ul	92
87) Benzo(b)fluoranthene	22.59	252	5589608m	101.622	ng/ul	
88) Benzo(k)fluoranthene	22.60	252	2475095m	45.764	ng/ul	
90) Benzo(a)pyrene	23.10	252	2643687	53.546	ng/ul	98
91) Indeno(1,2,3-cd)pyrene	25.27	276	2165413	36.191	ng/ul	97
92) Dibenzo(a,h)anthracene	25.28	278	950075	18.821	ng/ul	98
93) Benzo(q,h,i)perylene	25.90	276	1616953	32.489	ng/ul	95

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

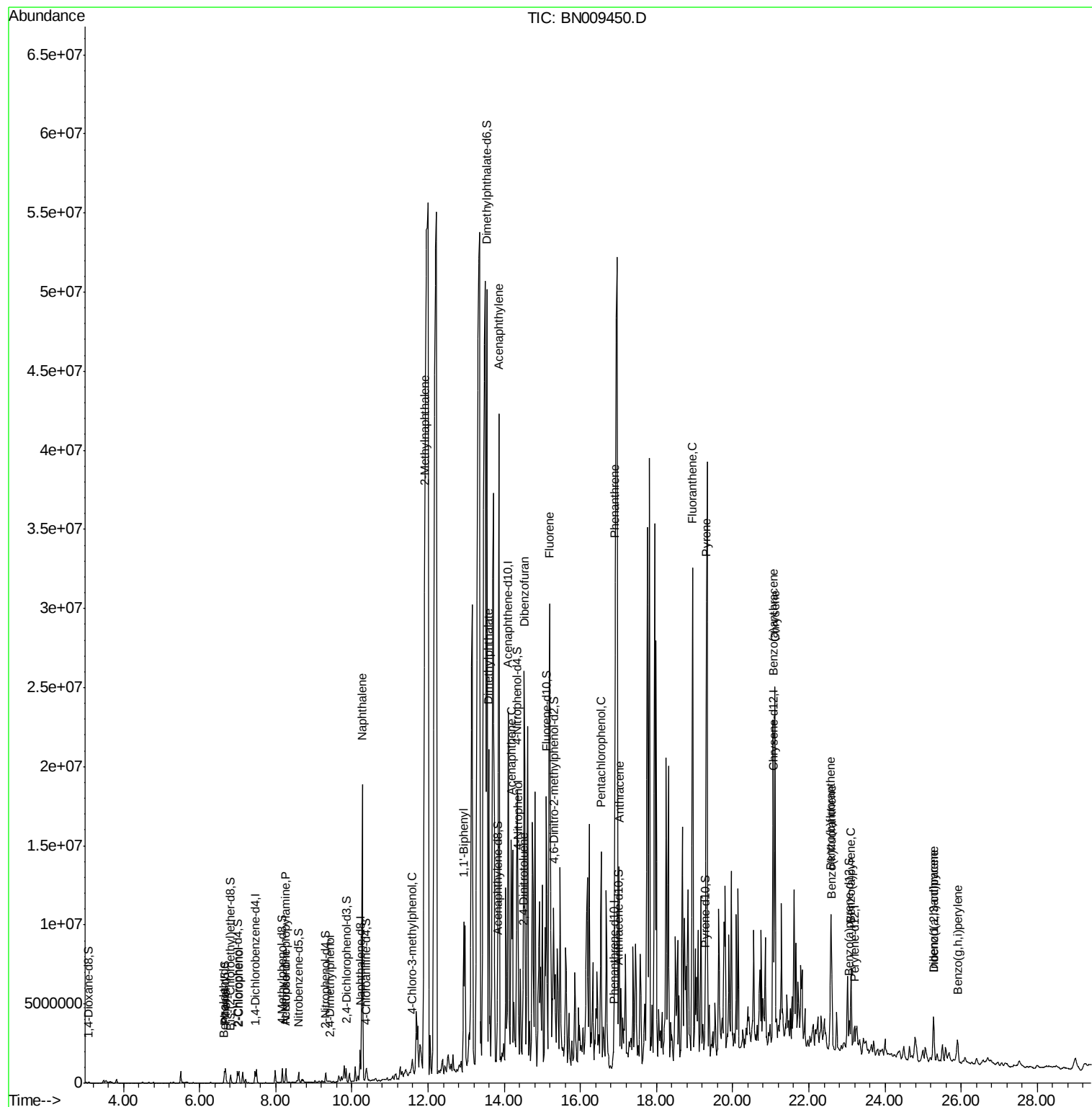
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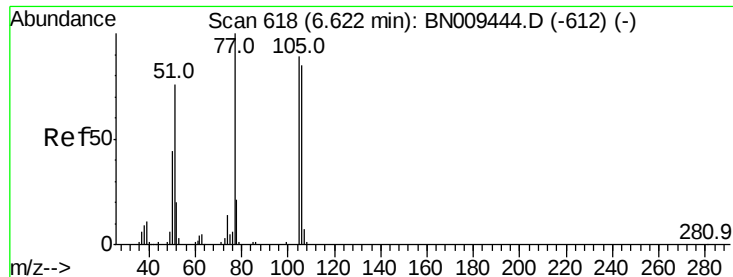
Instrument :
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#4

Benzaldehyde

Concen: 1.237 ng/ul

RT: 6.62 min Scan# 618

Delta R.T. -0.00 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Instrument :

BNA_N

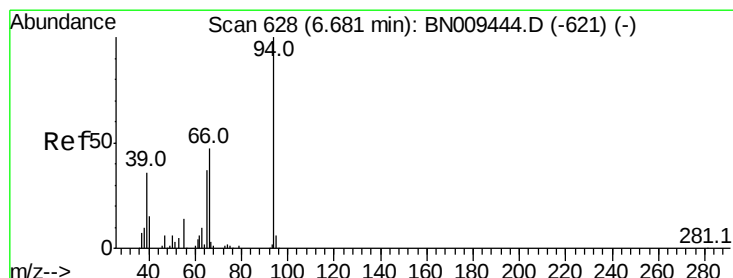
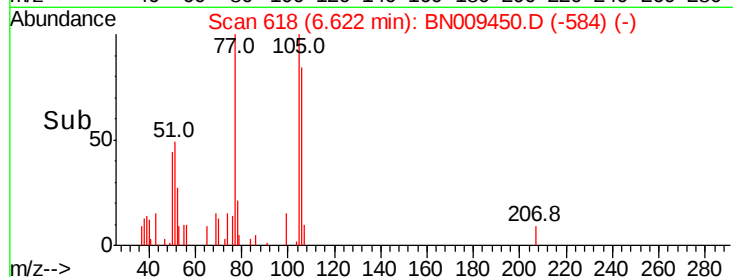
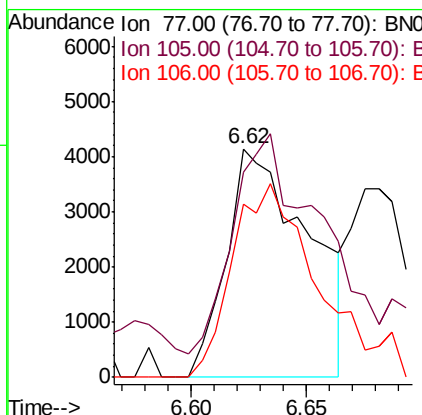
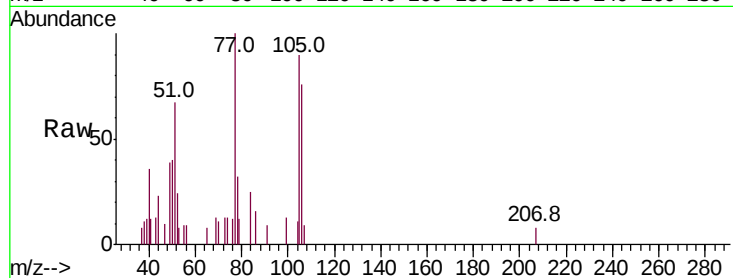
ClientSampleId :

GASP4MSD

Tot Ion:	77	Resp:	10202
Ion	Ratio	Lower	Upper
77	100		
105	90.1	70.2	105.4
106	75.7	65.6	98.4

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#6

Phenol

Concen: 24.106 ng/ul

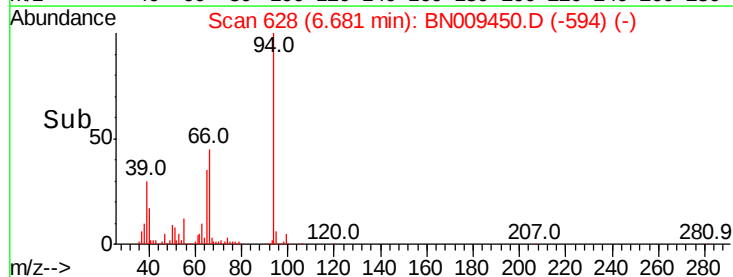
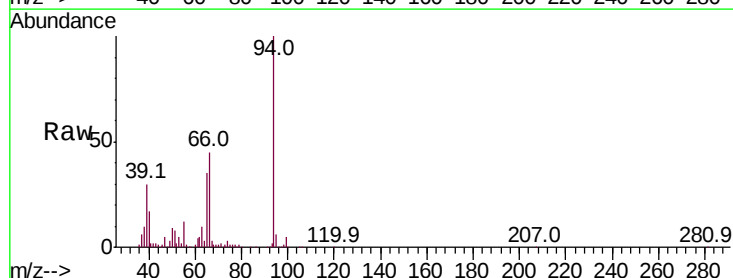
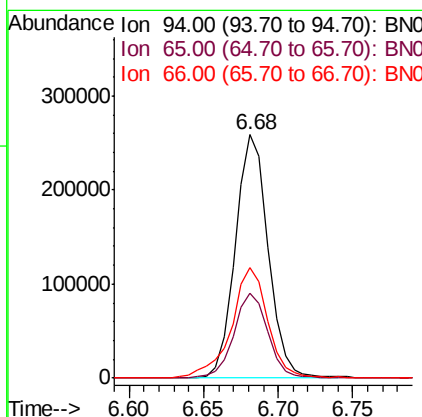
RT: 6.68 min Scan# 628

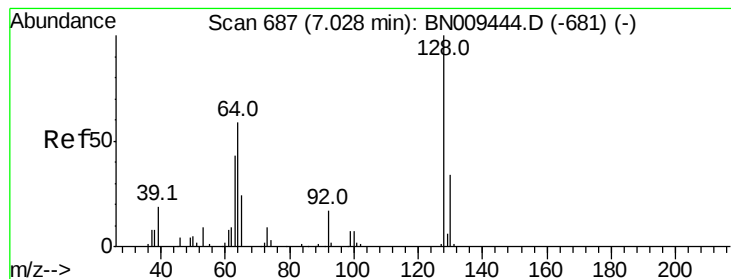
Delta R.T. -0.00 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Tgt Ion:	94	Resp:	396666
Ion	Ratio	Lower	Upper
94	100		
65	34.7	29.4	44.0
66	45.1	39.8	59.8





#10

2-Chlorophenol

Concen: 22.599 ng/ul

RT: 7.03 min Scan# 688

Delta R.T. -0.00 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Instrument :

BNA_N

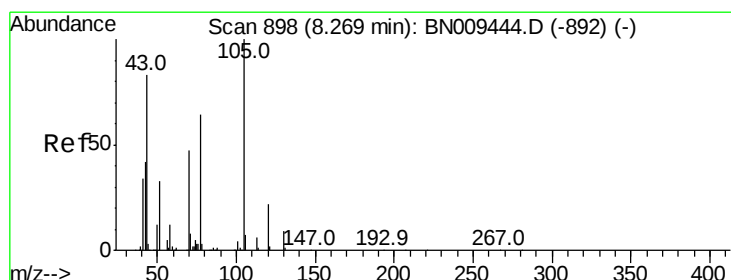
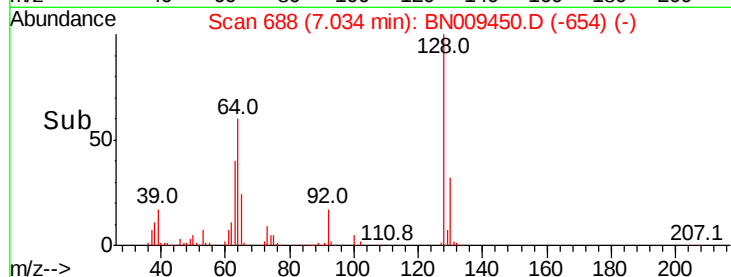
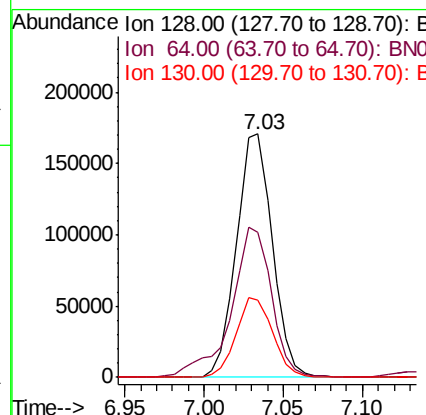
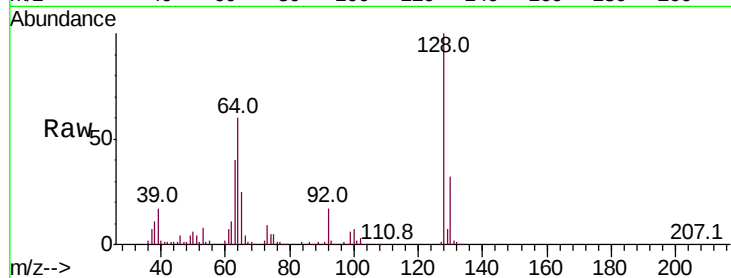
ClientSampleId :

GASP4MSD

Tot Ion:	128	Resp:	269616
Ion Ratio	Lower	Upper	
128	100		
64	59.7	54.3	81.5
130	31.9	27.9	41.9

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#14

Acetophenone

Concen: 3.173 ng/ul

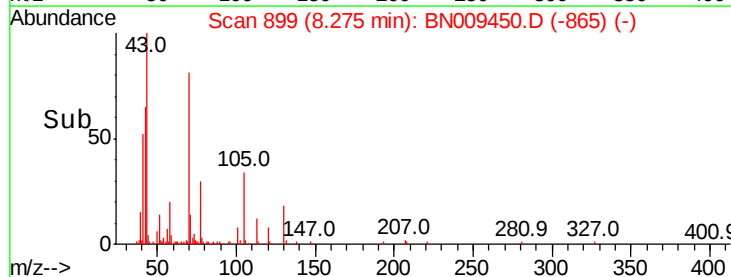
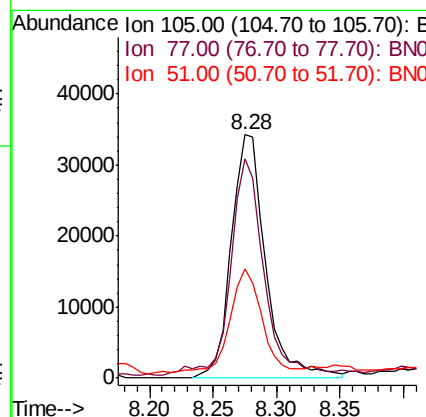
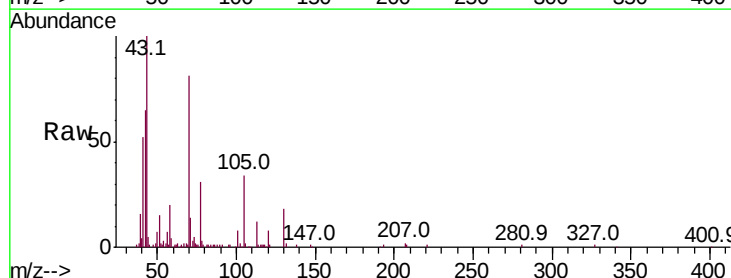
RT: 8.28 min Scan# 899

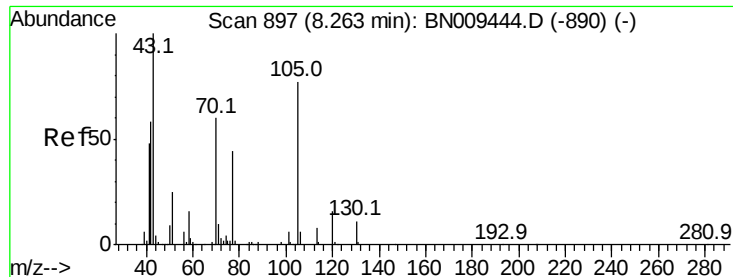
Delta R.T. -0.00 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Tgt Ion:	105	Resp:	64076
Ion Ratio	Lower	Upper	
105	100		
77	89.9	66.4	99.6
51	44.8	35.6	53.4





#15

N-Nitroso-di-n-propylamine

Concen: 21.669 ng/ul

RT: 8.26 min Scan# 897

Delta R.T. -0.00 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Instrument :

BNA_N

ClientSampleId :

GASP4MSD

Tot Ion: 70 Resp: 237668

Ion Ratio Lower Upper

70 100

42 80.2 73.6 110.4

101 9.1 7.5 11.3

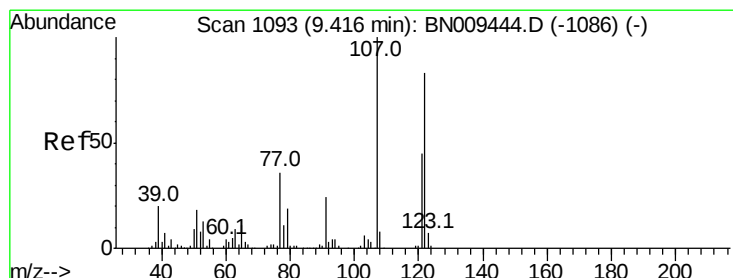
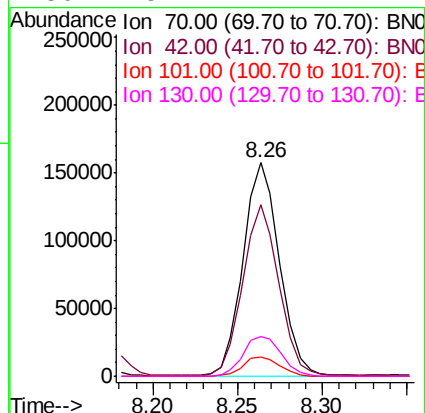
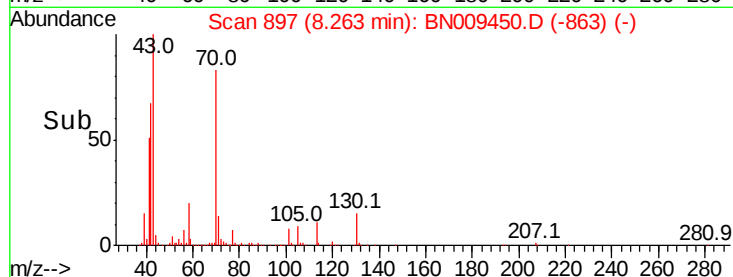
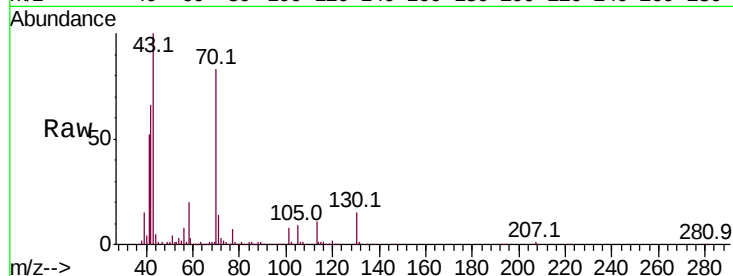
130 18.4 14.2 21.4

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#24

2,4-Dimethylphenol

Concen: 1.520 ng/ul

RT: 9.42 min Scan# 1094

Delta R.T. 0.01 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

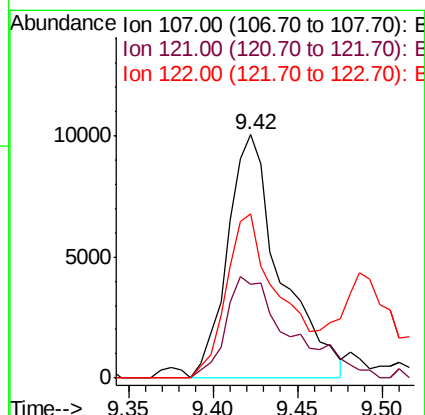
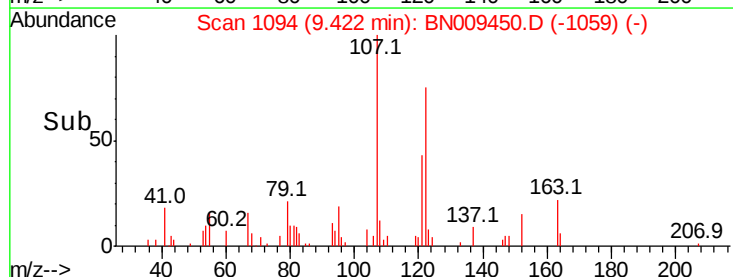
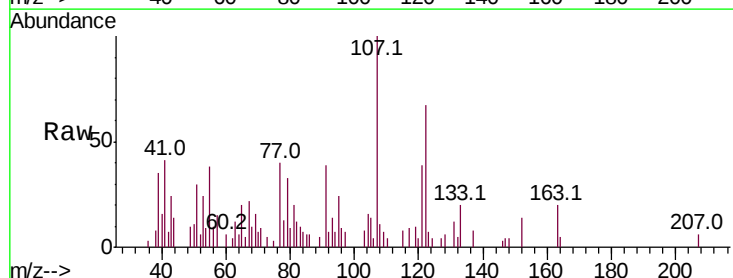
Tgt Ion:107 Resp: 21890

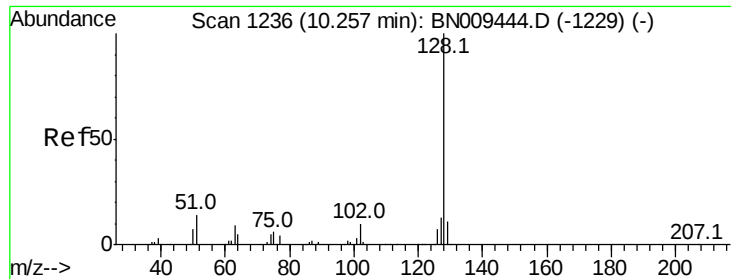
Ion Ratio Lower Upper

107 100

121 38.6 39.0 58.4#

122 67.4 64.1 96.1





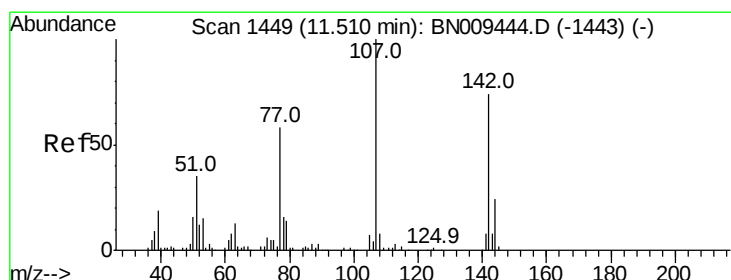
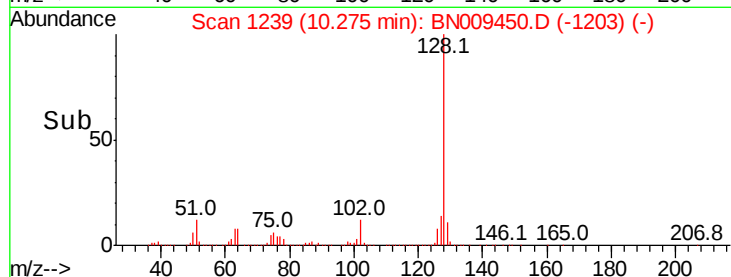
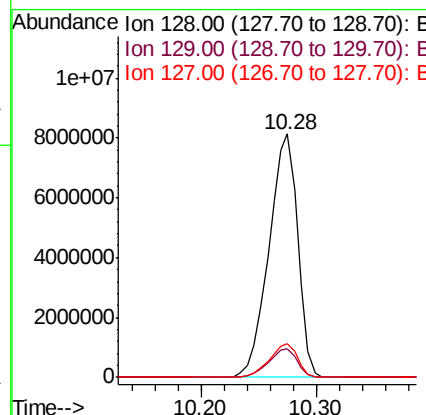
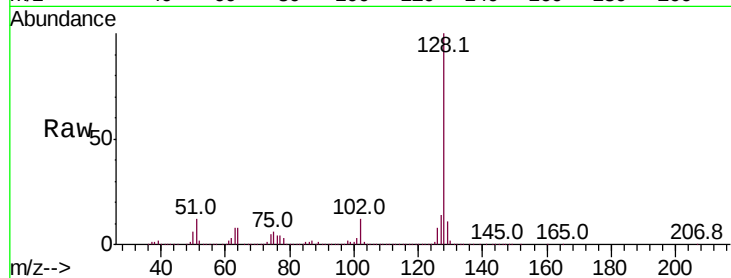
#28
Naphthalene
Concen: 351.803 ng/ul
RT: 10.28 min Scan# 1239
Delta R.T. 0.01 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Instrument :
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Tot Ion:128 Resp:14146036
Ion Ratio Lower Upper
128 100
129 11.5 8.1 12.1
127 13.7 11.0 16.6

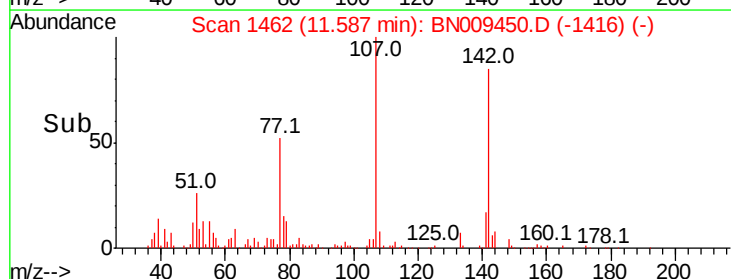
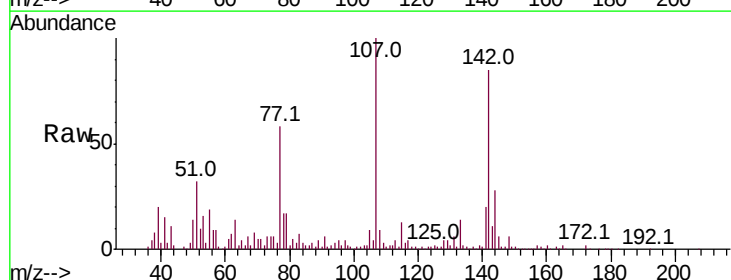
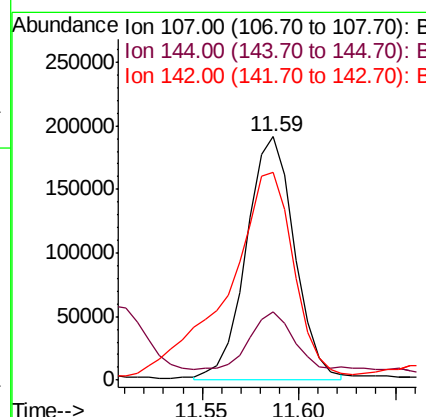
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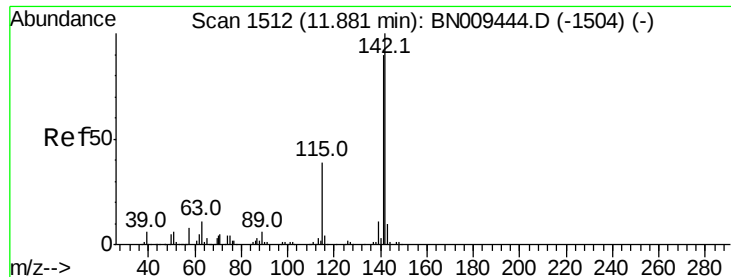
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#33
4-Chloro-3-methylphenol
Concen: 24.740 ng/ul m
RT: 11.59 min Scan# 1462
Delta R.T. 0.07 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Tgt Ion:107 Resp: 332262
Ion Ratio Lower Upper
107 100
144 27.9 18.9 28.3
142 85.4 56.8 85.2#





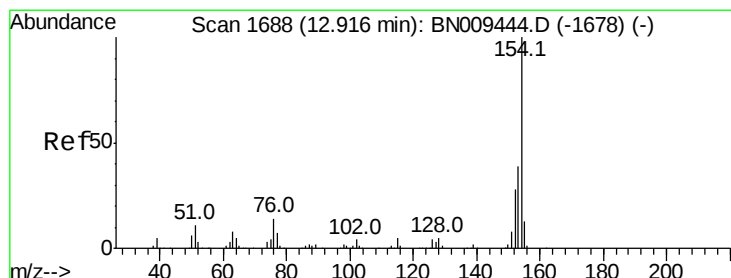
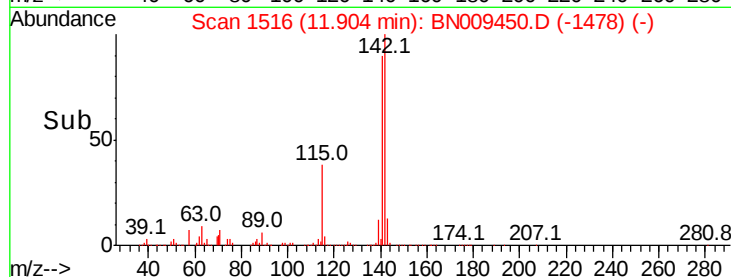
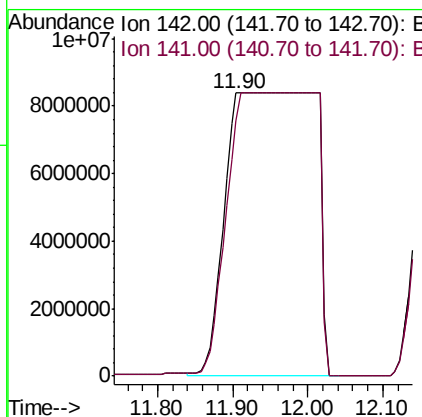
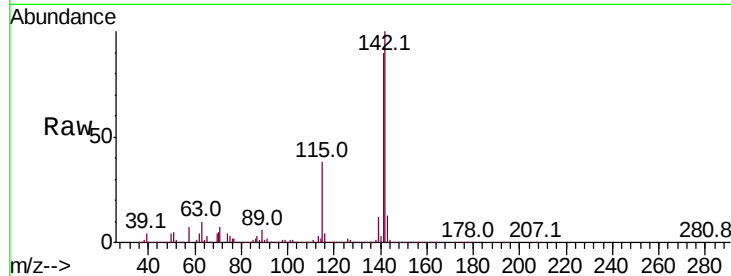
#34
2-Methylnaphthalene
Concen: 2468.583 ng/ul m
RT: 11.90 min Scan# 1516
Delta R.T. 0.02 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Instrument :
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Tot Ion:142 Resp:68335194
Ion Ratio Lower Upper
142 100
141 90.1 69.3 103.9

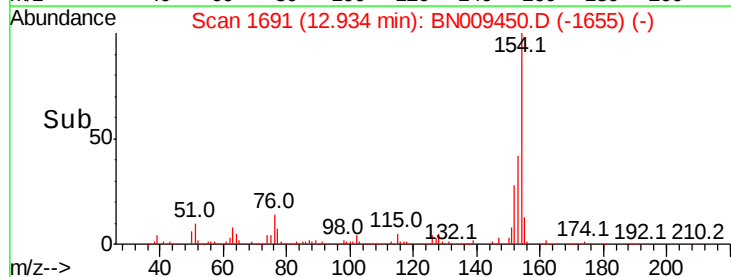
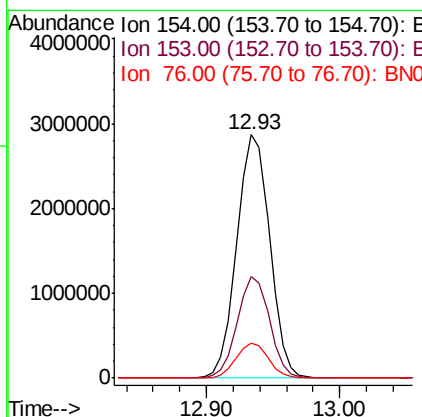
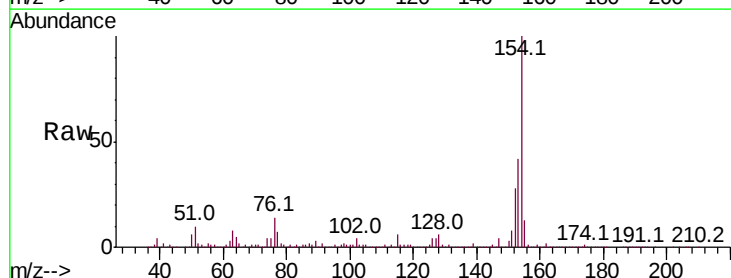
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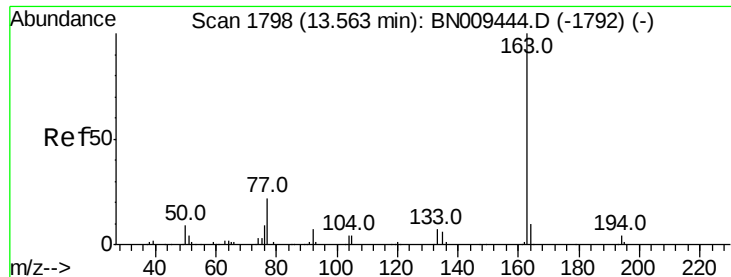
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#40
1,1'-Biphenyl
Concen: 92.784 ng/ul
RT: 12.93 min Scan# 1691
Delta R.T. 0.01 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Tgt Ion:154 Resp: 4900409
Ion Ratio Lower Upper
154 100
153 41.6 32.6 49.0
76 14.3 11.4 17.0





#44

Dimethylphthalate

Concen: 4.651 ng/ul

RT: 13.60 min Scan# 1804

Delta R.T. 0.03 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Instrument :

BNA_N

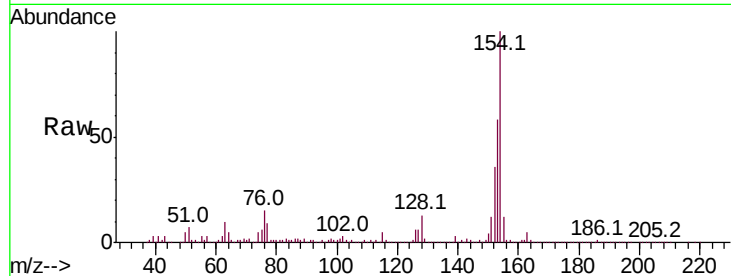
ClientSampleId :

GASP4MSD

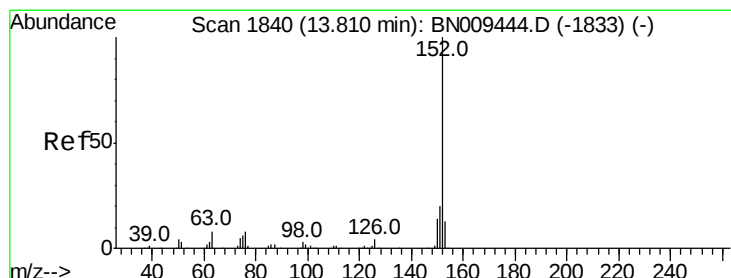
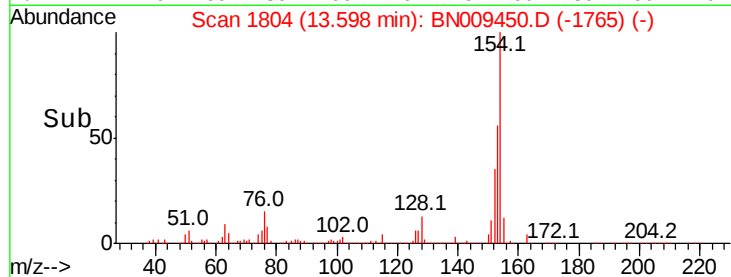
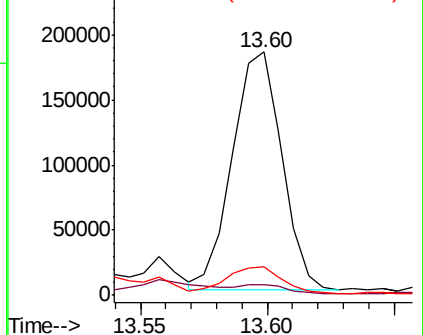
Tot Ion:	163	Resp:	247188
Ion Ratio	Lower	Upper	
163	100		
194	4.3	3.1	4.7
164	11.9	8.3	12.5

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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: 243.843 ng/ul

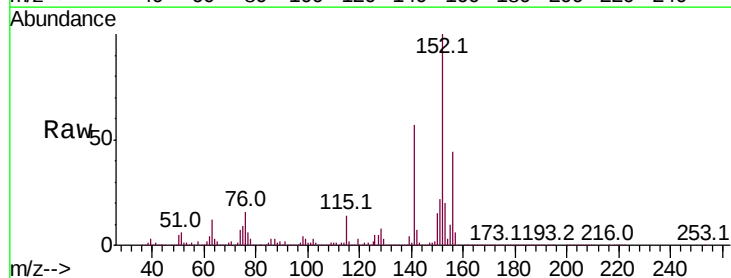
RT: 13.86 min Scan# 1848

Delta R.T. 0.05 min

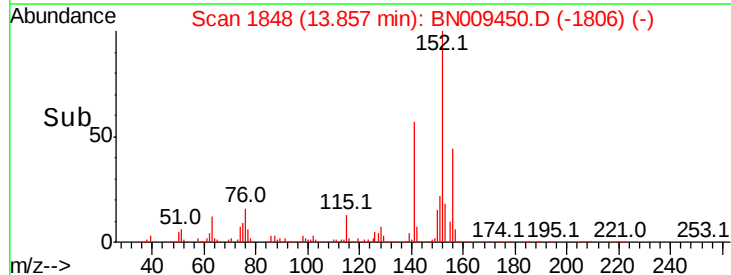
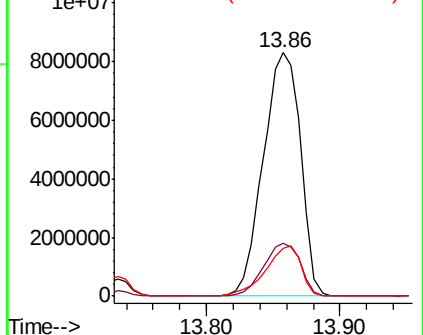
Lab File: BN009450.D

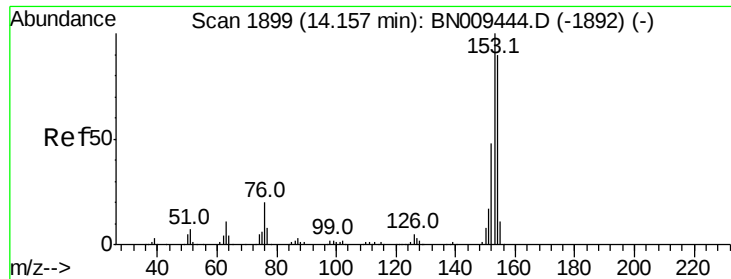
Acq: 28 Jan 2020 14:37

Tgt Ion:	152	Resp:	16123471
Ion Ratio	Lower	Upper	
152	100		
151	21.9	16.2	24.4
153	19.6	10.8	16.2#



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: 99.742 ng/ul

RT: 14.19 min Scan# 1904

Delta R.T. 0.02 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Instrument :

BNA_N

ClientSampleId :

GASP4MSD

Tot Ion:153 Resp: 4499371

Ion Ratio Lower Upper

153 100

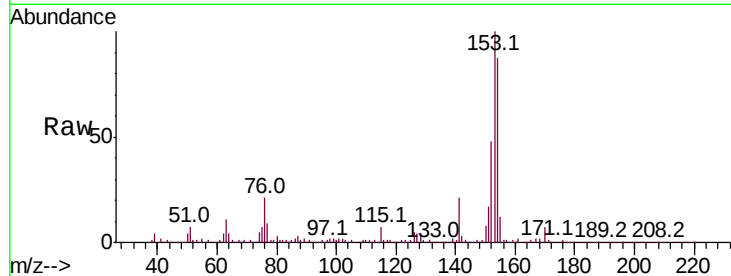
152 47.7 36.3 54.5

154 87.3 71.4 107.0

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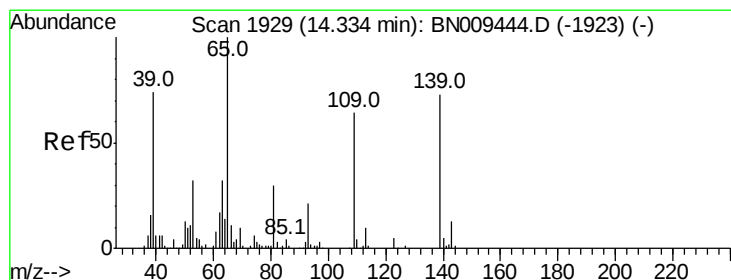
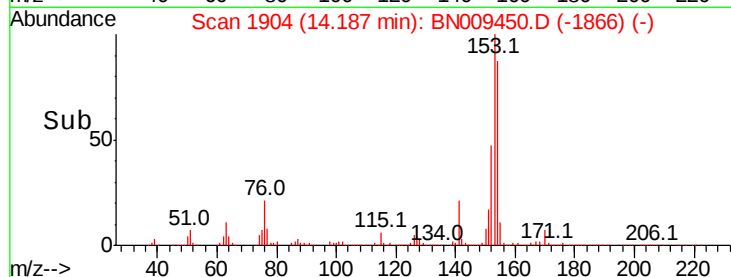
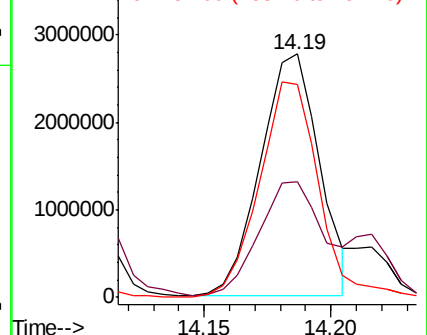
1/30/2020 8:03:38 AM



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



#52

4-Nitrophenol

Concen: 14.542 ng/ul

RT: 14.36 min Scan# 1934

Delta R.T. 0.03 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

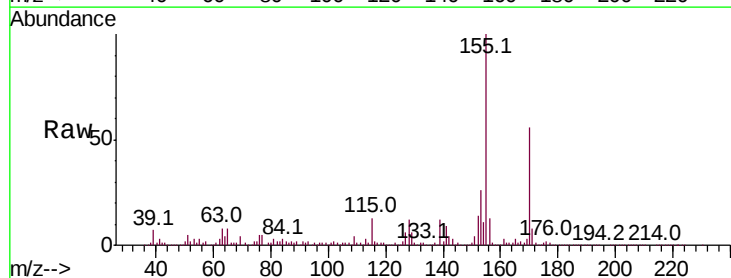
Tgt Ion:109 Resp: 129311

Ion Ratio Lower Upper

109 100

139 270.9 85.3 127.9#

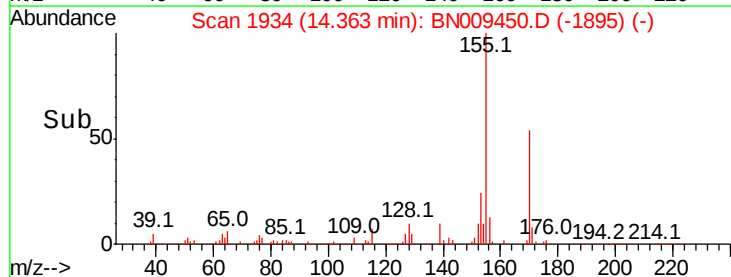
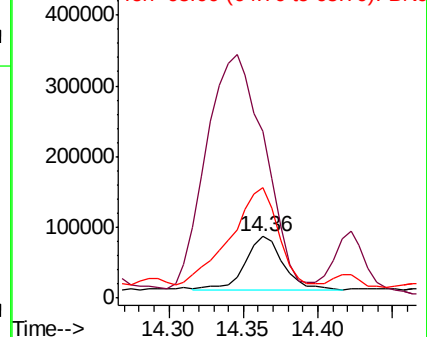
65 180.4 125.7 188.5

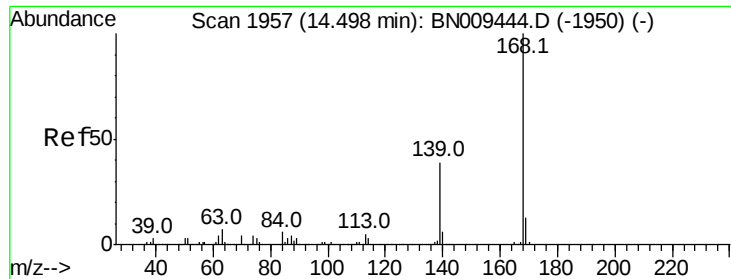


Abundance Ion 109.00 (108.70 to 109.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 65.00 (64.70 to 65.70): BNO





#53

Dibenzenofuran

Concen: 103.471 ng/ul

RT: 14.52 min Scan# 1961

Delta R.T. 0.02 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Instrument :

BNA_N

ClientSampleId :

GASP4MSD

Tot Ion:168 Resp: 6485102

Ion Ratio Lower Upper

168 100

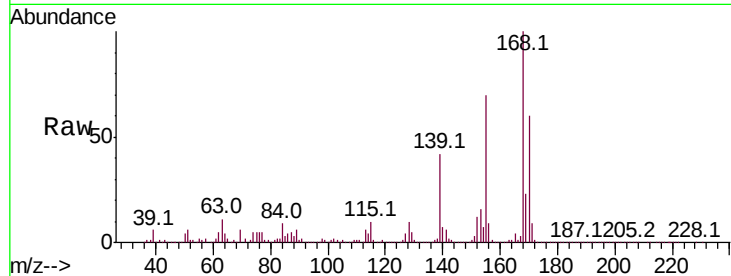
139 42.3 31.4 47.2

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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

4000000

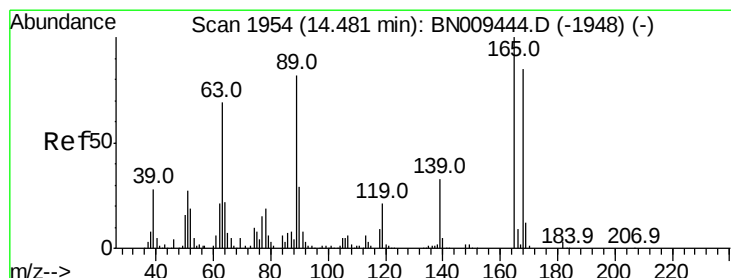
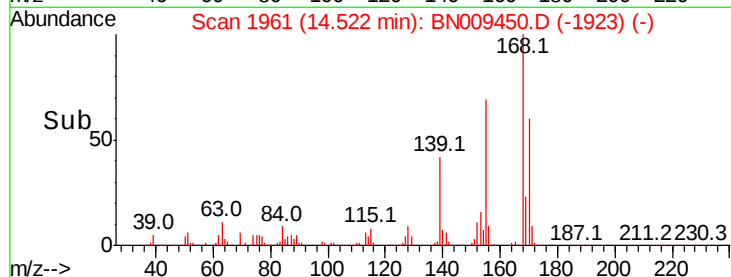
3000000

2000000

1000000

0

Time--> 14.45 14.50 14.55



#54

2,4-Dinitrotoluene

Concen: 22.287 ng/ul

RT: 14.49 min Scan# 1956

Delta R.T. 0.01 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

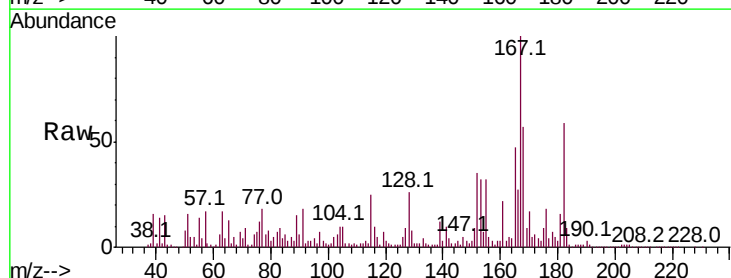
Tgt Ion:165 Resp: 336135

Ion Ratio Lower Upper

165 100

63 35.2 55.4 83.0#

182 124.6 2.0 3.0#



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

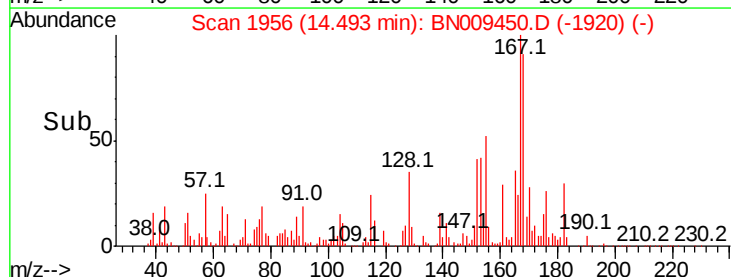
600000

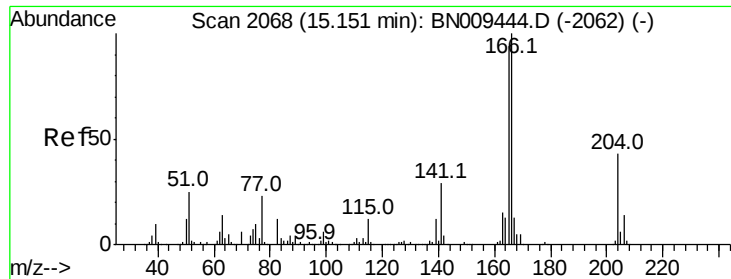
400000

200000

0

Time--> 14.45 14.50





#58
Fluorene
 Concen: 314.426 ng/ul
 RT: 15.19 min Scan# 2075
 Delta R.T. 0.04 min
 Lab File: BN009450.D
 Acq: 28 Jan 2020 14:37

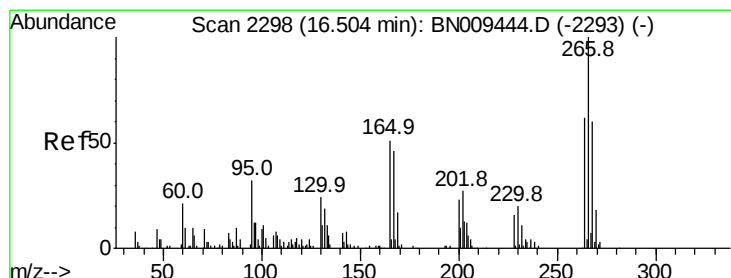
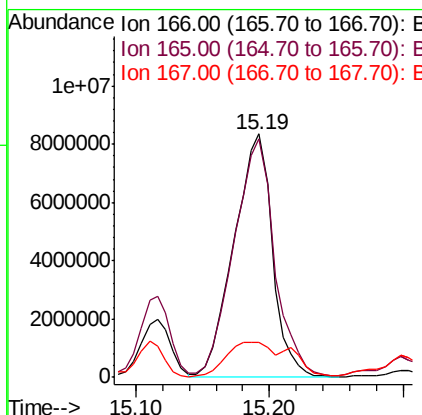
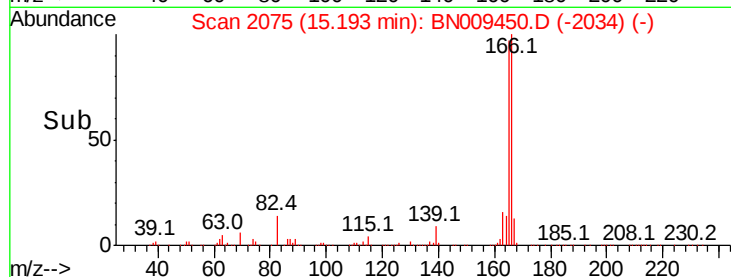
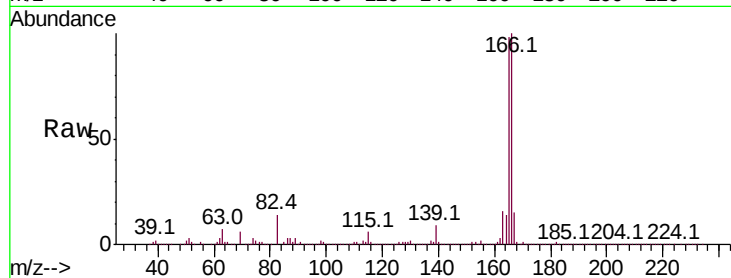
Instrument :
 BNA_N
 ClientSampled :
 GASP4MSD

Tot Ion:166 Resp:16512792

Ion	Ratio	Lower	Upper
166	100		
165	98.0	76.5	114.7
167	14.6	10.9	16.3

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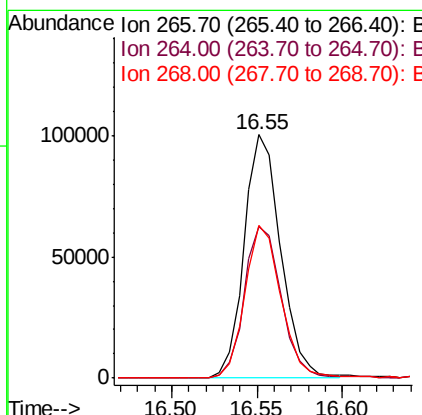
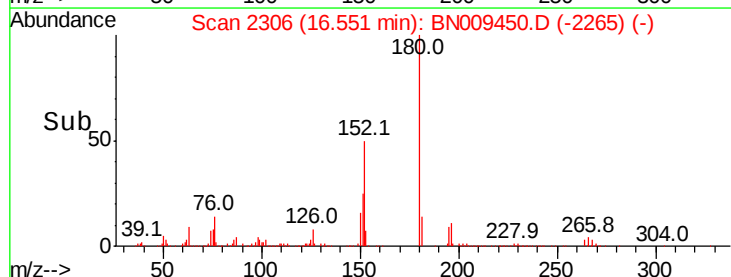
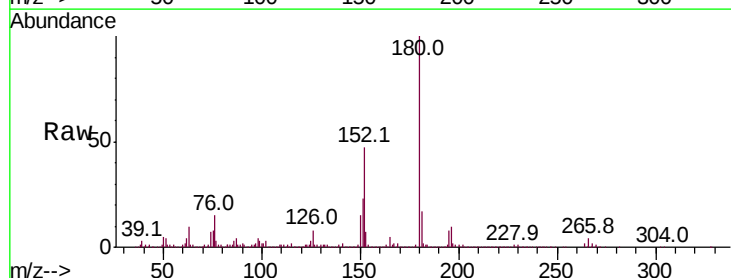
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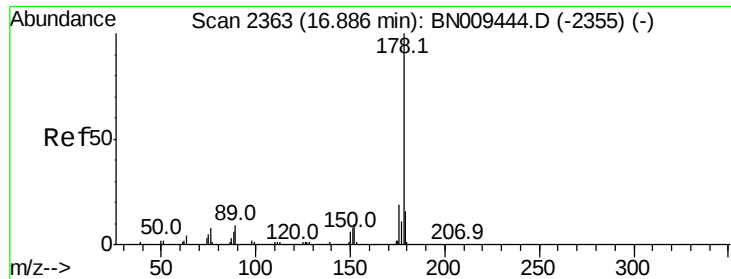


#68
Pentachlorophenol
 Concen: 26.206 ng/ul m
 RT: 16.55 min Scan# 2306
 Delta R.T. 0.04 min
 Lab File: BN009450.D
 Acq: 28 Jan 2020 14:37

Tgt Ion:266 Resp: 149119

Ion	Ratio	Lower	Upper
266	100		
264	62.0	54.0	81.0
268	62.6	58.8	88.2





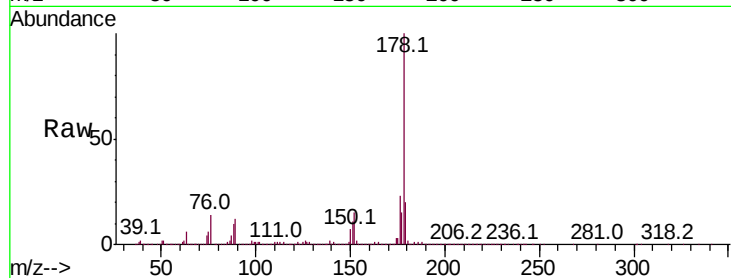
#69
Phenanthrene
Concen: 897.799 ng/ul m
RT: 16.91 min Scan# 2367
Delta R.T. 0.02 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Instrument :
BNA_N
ClientSampleId :
GASP4MSD

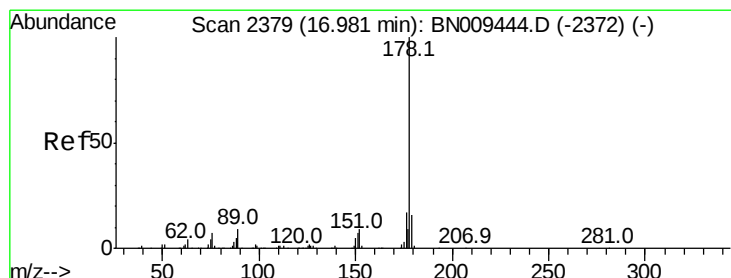
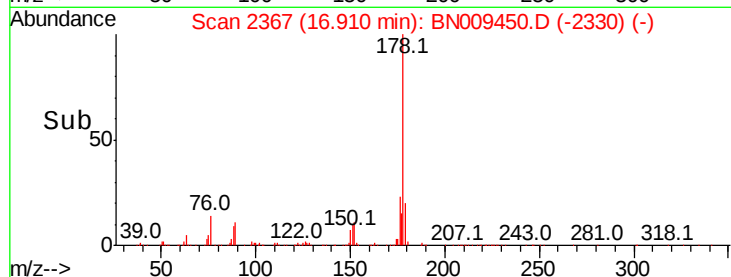
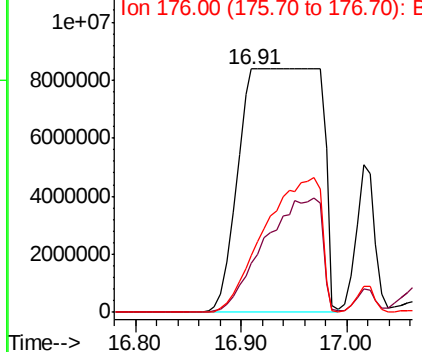
Tot Ion:178 Resp:44354818
Ion Ratio Lower Upper
178 100
179 20.4 13.3 19.9#
176 23.3 15.5 23.3#

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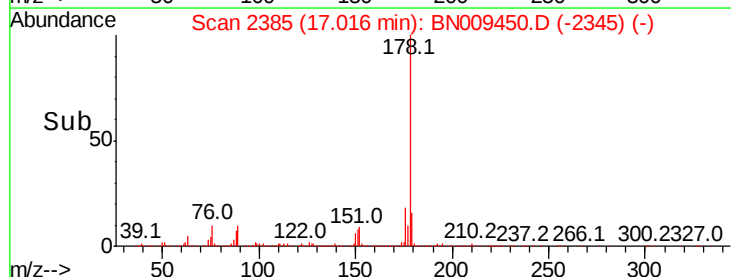
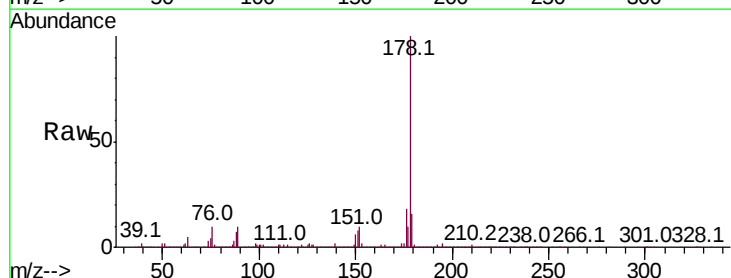
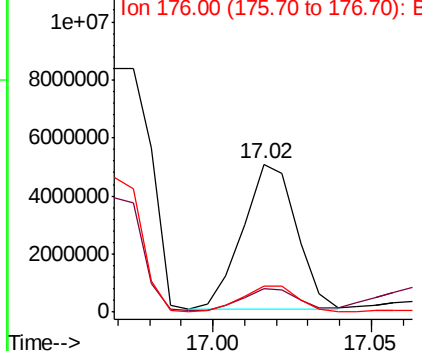
Abundance Ion 178.00 (177.70 to 178.70): E
Ion 179.00 (178.70 to 179.70): E
Ion 176.00 (175.70 to 176.70): E

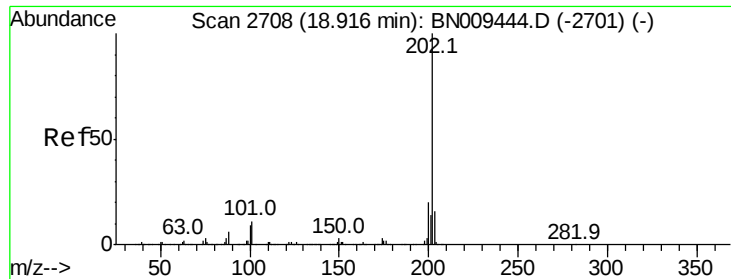


#71
Anthracene
Concen: 118.124 ng/ul
RT: 17.02 min Scan# 2385
Delta R.T. 0.04 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Tgt Ion:178 Resp: 5941832
Ion Ratio Lower Upper
178 100
179 16.0 11.8 17.6
176 18.0 14.6 22.0

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





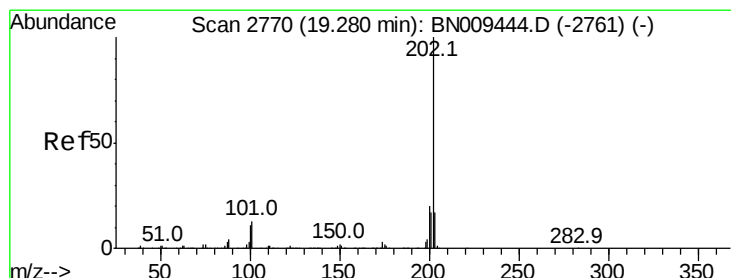
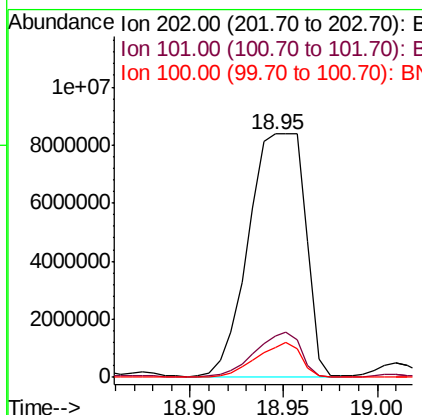
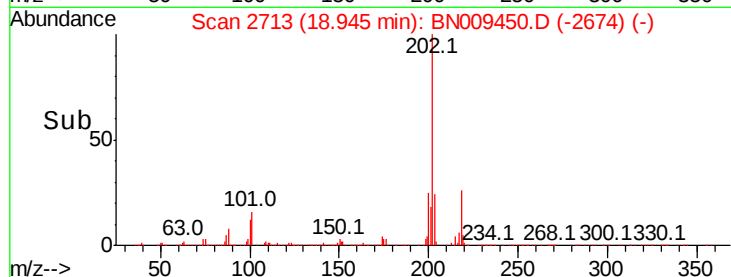
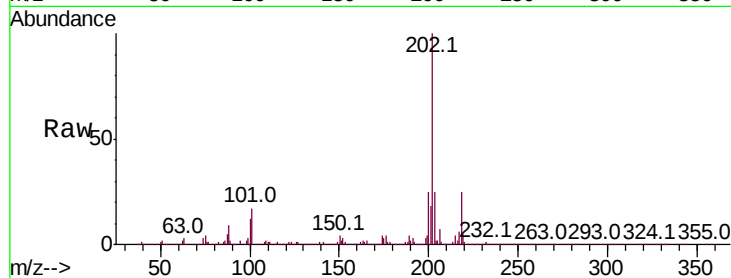
#76
Fluoranthene
Concen: 313.228 ng/ul m
RT: 18.95 min Scan# 2713
Delta R.T. 0.03 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Instrument :
BNA_N
ClientSampleId :
GASP4MSD

Tot Ion:202 Resp:17739393
Ion Ratio Lower Upper
202 100
101 17.2 9.7 14.5#
100 12.2 7.1 10.7#

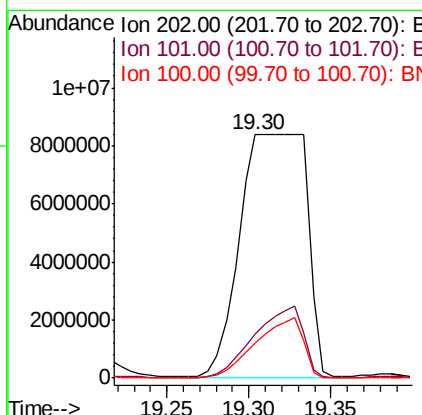
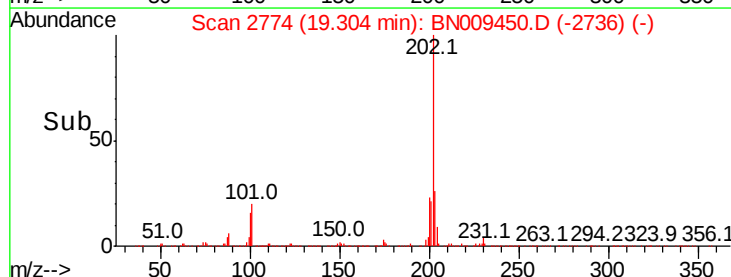
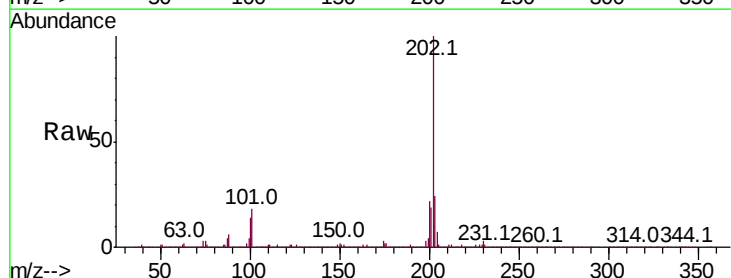
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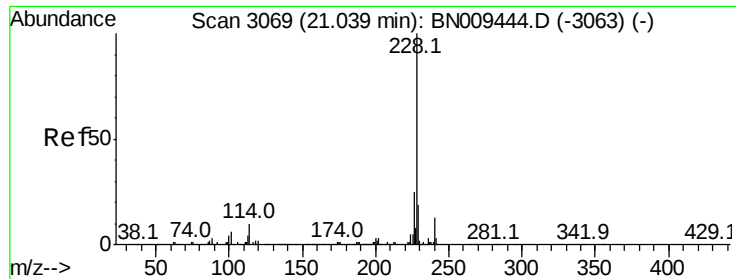
mohammad
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#79
Pyrene
Concen: 457.055 ng/ul m
RT: 19.30 min Scan# 2774
Delta R.T. 0.02 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Tgt Ion:202 Resp:23718041
Ion Ratio Lower Upper
202 100
101 17.9 10.9 16.3#
100 14.1 8.6 12.8#





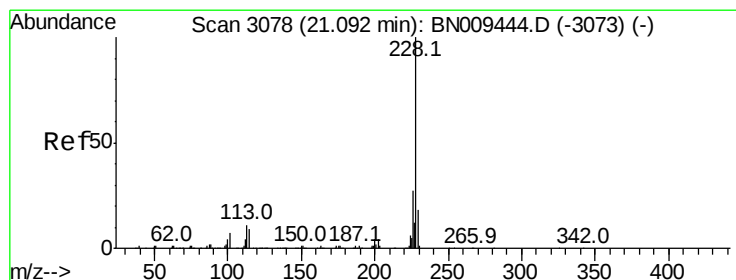
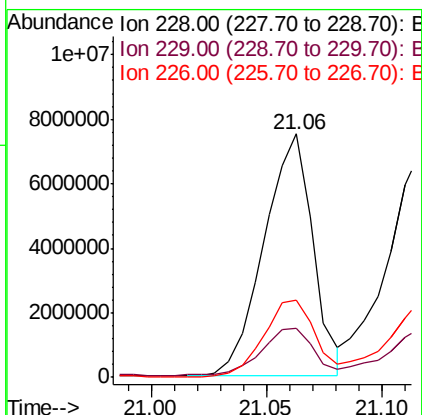
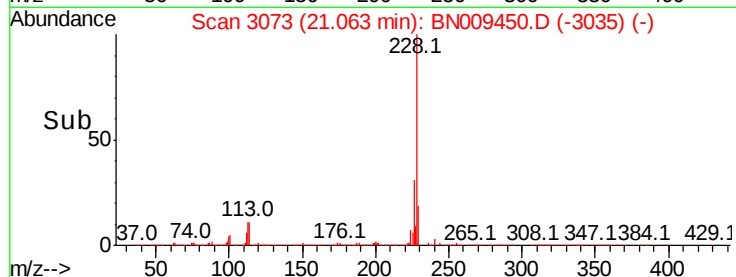
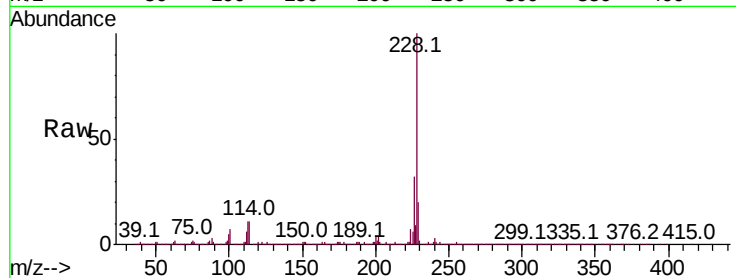
#82
Benzo(a)anthracene
Concen: 226.461 ng/ul
RT: 21.06 min Scan# 3073
Delta R.T. 0.02 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Instrument :
BNA_N
ClientSampleId :
GASP4MSD

Tot Ion	Ratio	Lower	Upper
228	100		
229	20.0	15.9	23.9
226	31.6	20.9	31.3

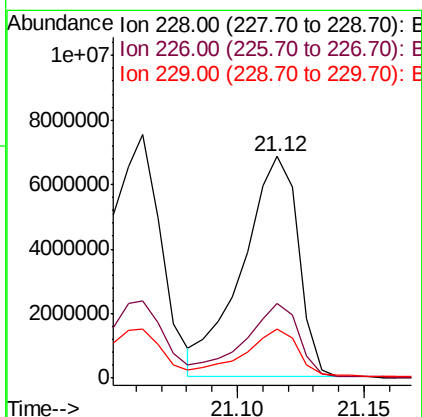
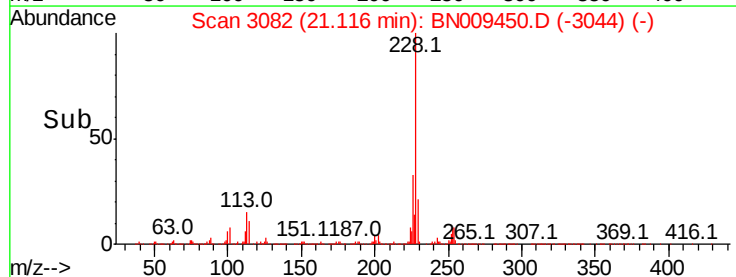
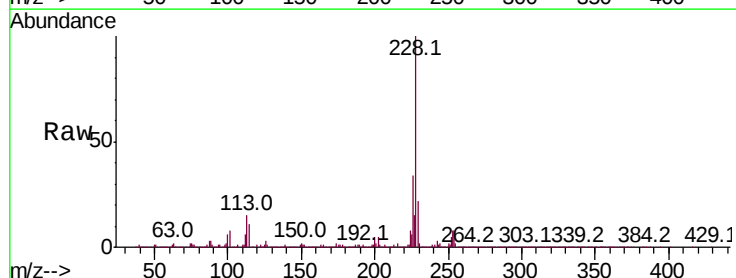
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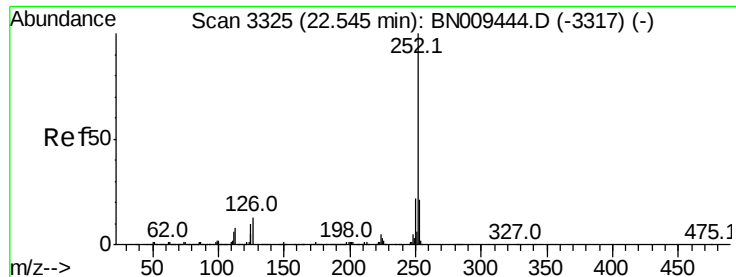
mohammad
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#84
Chrysene
Concen: 220.667 ng/ul
RT: 21.12 min Scan# 3082
Delta R.T. 0.02 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Tgt Ion	Ratio	Lower	Upper
228	100		
226	33.6	22.9	34.3
229	22.1	15.4	23.0





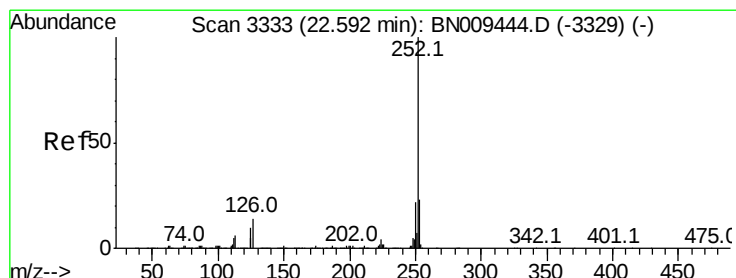
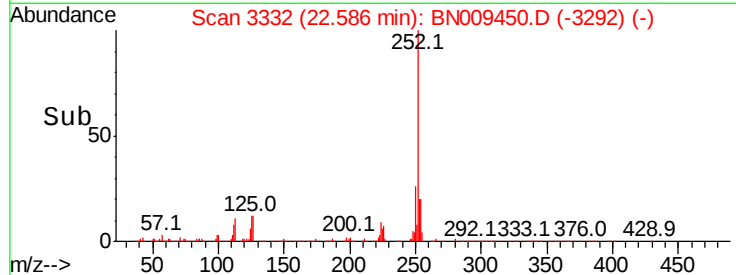
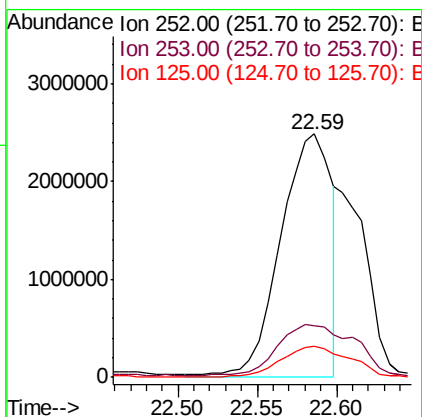
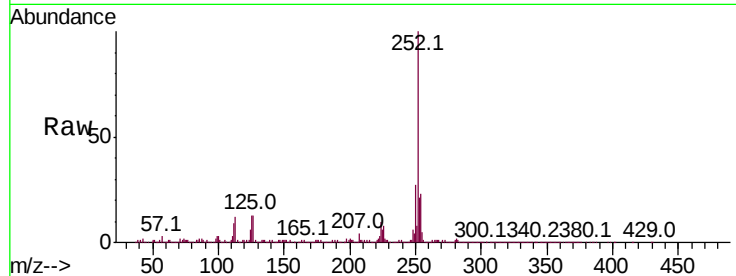
#87
Benzo(b)fluoranthene
Concen: 101.622 ng/ul m
RT: 22.59 min Scan# 3332
Delta R.T. 0.04 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Instrument :
BNA_N
ClientSampleId :
GASP4MSD

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.4	16.5	24.7
125	12.5	8.2	12.2#

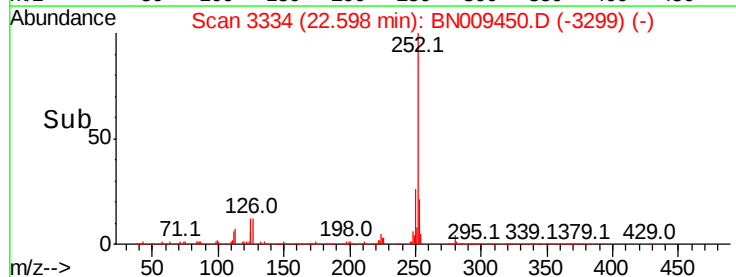
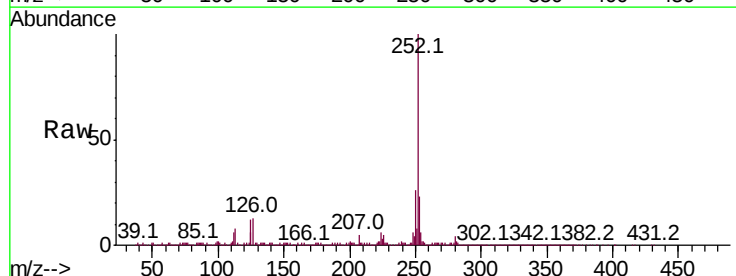
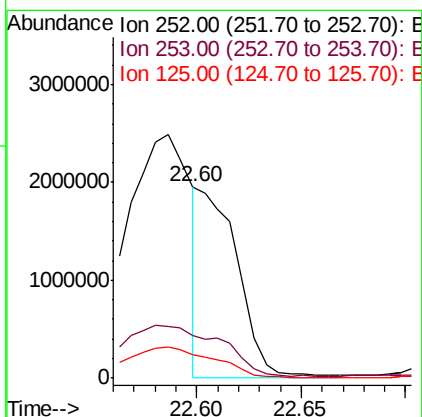
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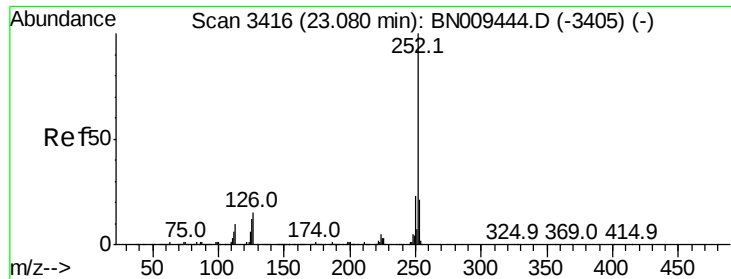
mohammad
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#88
Benzo(k)fluoranthene
Concen: 45.764 ng/ul m
RT: 22.60 min Scan# 3334
Delta R.T. 0.01 min
Lab File: BN009450.D
Acq: 28 Jan 2020 14:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.0	25.4
125	12.0	7.8	11.8#





#90

Benzo(a)pyrene

Concen: 53.546 ng/uL

RT: 23.10 min Scan# 3420

Delta R.T. 0.02 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

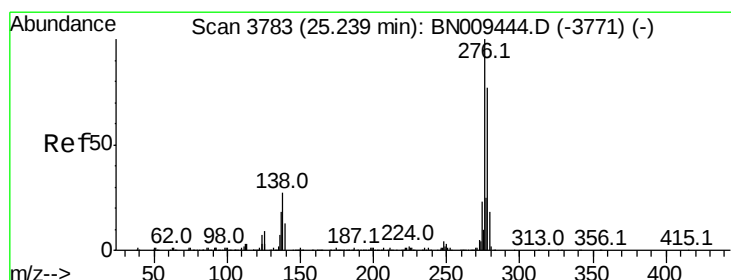
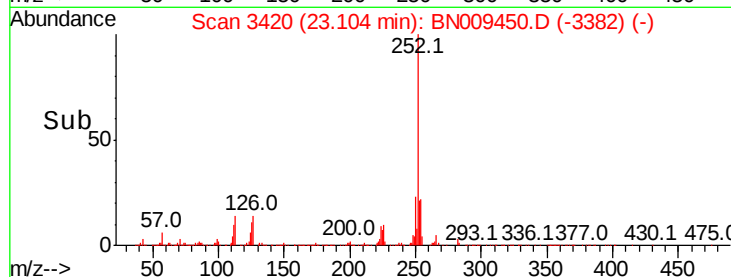
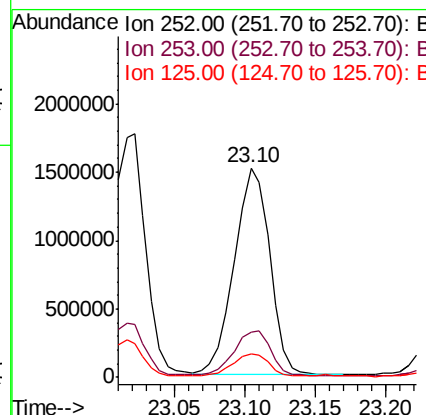
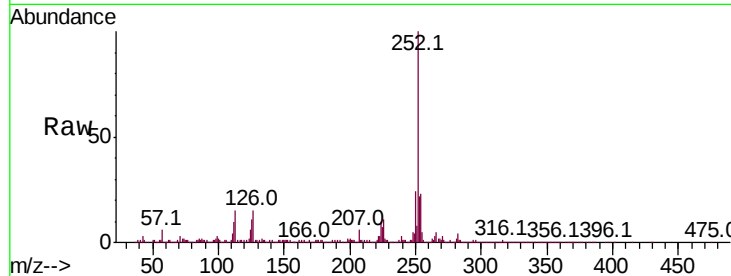
Instrument :
BNA_N
ClientSampleId :
GASP4MSD

Tot Ion:252 Resp: 2643687

Ion	Ratio	Lower	Upper
252	100		
253	21.6	18.0	27.0
125	11.2	9.8	14.6

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#91

Indeno(1,2,3-cd)pyrene

Concen: 36.191 ng/uL

RT: 25.27 min Scan# 3789

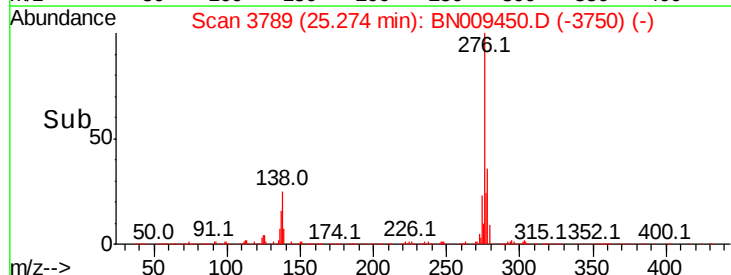
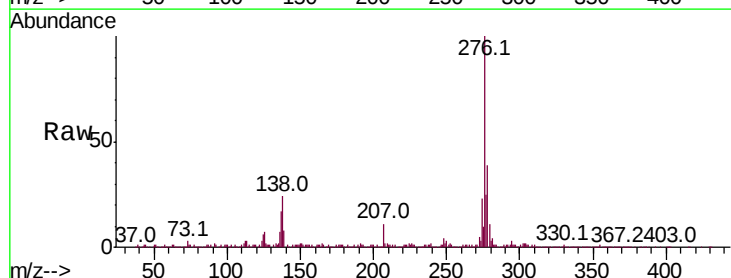
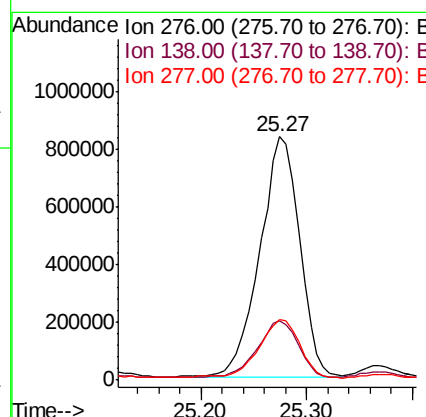
Delta R.T. 0.03 min

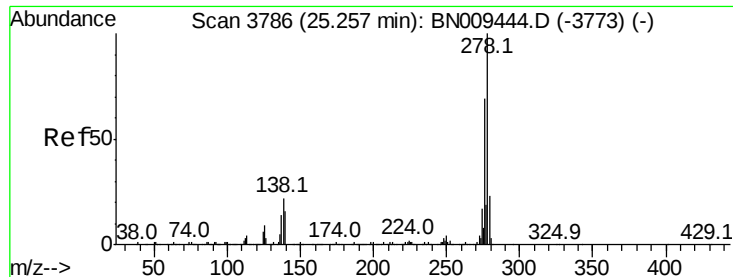
Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Tgt Ion:276 Resp: 2165413

Ion	Ratio	Lower	Upper
276	100		
138	24.4	21.4	32.0
277	24.6	20.4	30.6





#92

Dibenzo(a,h)anthracene

Concen: 18.821 ng/ul

RT: 25.28 min Scan# 3790

Delta R.T. 0.03 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Instrument :

BNA_N

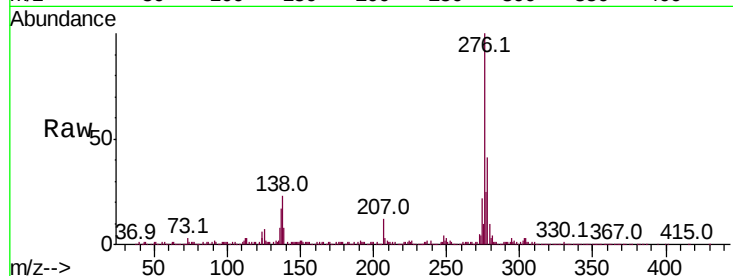
ClientSampleId :

GASP4MSD

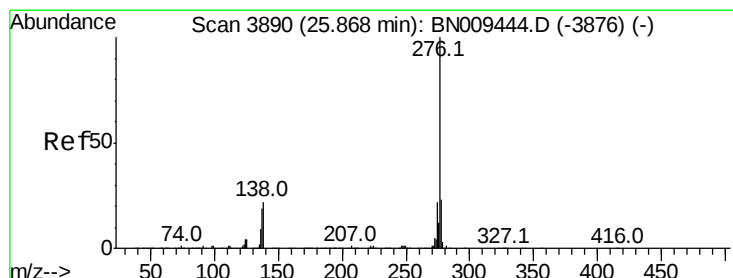
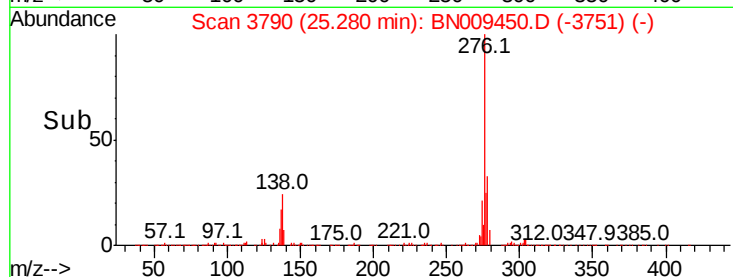
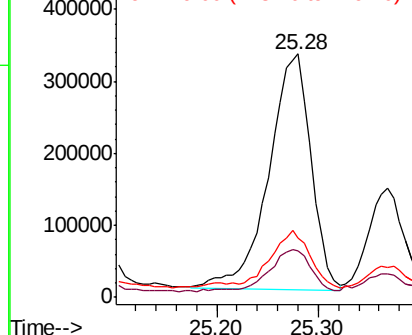
Tot Ion:278	Resp:	950075
Ion Ratio	Lower	Upper
278	100	
139	19.1	13.9 20.9
279	24.6	19.3 28.9

Manual Integrations
APPROVED

mohammad
1/30/2020 8:03:38 AM



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: 32.489 ng/ul

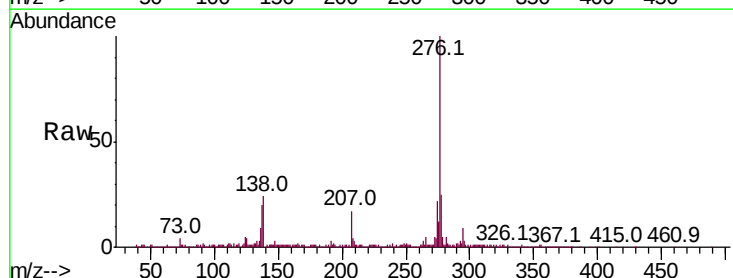
RT: 25.90 min Scan# 3896

Delta R.T. 0.03 min

Lab File: BN009450.D

Acq: 28 Jan 2020 14:37

Tgt Ion:276	Resp:	1616953
Ion Ratio	Lower	Upper
276	100	
138	23.8	16.6 24.8
277	24.7	18.7 28.1



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

