

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\
 Data File : BG042204.D
 Acq On : 14 Aug 2019 10:37
 Operator : HP/JU
 Sample : K4304-10
 Misc :
 ALS Vial : 66 Sample Multiplier: 1

Instrument :
 BNA_G
 ClientSampleId :
 CB5P1

Manual Integrations
 APPROVED

mohammad
 8/15/2019 5:11:48 PM

Quant Time: Aug 14 17:18:49 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\SOM-EPA-BG080319MA.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Aug 14 10:42:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.02	152	95831	20.00	ng/ul	0.00
18) Naphthalene-d8	10.85	136	397829	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.69	164	268765	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.44	188	543041	20.00	ng/ul	0.00
77) Chrysene-d12	21.73	240	527988	20.00	ng/ul	0.00
85) Perylene-d12	25.00	264	645712	20.00	ng/ul	0.02

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.41	96	9178	4.19	ng/uL	0.00
5) Phenol-d5	7.18	99	213803	28.43	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.34	67	107684	25.60	ng/ul	0.00
9) 2-Chlorophenol-d4	7.55	132	196248	30.52	ng/ul	0.00
13) 4-Methylphenol-d8	8.73	113	184310	29.19	ng/ul	0.00
19) Nitrobenzene-d5	9.19	128	99427	33.20	ng/ul	0.00
22) 2-Nitrophenol-d4	9.92	143	124672	35.86	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.47	165	224025	31.91	ng/ul	0.00
29) 4-Chloroaniline-d4	10.98	131	259637	33.33	ng/ul	0.00
43) Dimethylphthalate-d6	14.09	166	647478	31.06	ng/ul	0.00
46) Acenaphthylene-d8	14.38	160	771567	32.40	ng/ul	0.00
51) 4-Nitrophenol-d4	14.88	143	92444	26.41	ng/ul	0.00
57) Fluorene-d10	15.68	176	577845	31.16	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.80	200	88024	25.26	ng/ul	0.00
70) Anthracene-d10	17.54	188	828684	31.81	ng/ul	0.00
78) Pyrene-d10	19.83	212	934303	31.71	ng/ul	0.00
89) Benzo(a)pyrene-d12	24.78	264	1104874	32.75	ng/ul	0.01

Target Compounds

					Ovalue
28) Naphthalene	10.90	128	145590	7.158	ng/ul 99
34) 2-Methylnaphthalene	12.51	142	88450	5.472	ng/ul 97
40) 1,1'-Biphenyl	13.52	154	32720	1.674	ng/ul 97
44) Dimethylphthalate	14.13	163	36182	1.748	ng/ul 98
47) Acenaphthylene	14.41	152	78785	3.278	ng/ul# 95
49) Acenaphthene	14.75	153	120064	7.145	ng/ul 100
53) Dibenzofuran	15.09	168	183142	7.302	ng/ul 97
58) Fluorene	15.74	166	205864	10.191	ng/ul 99
69) Phenanthrene	17.49	178	2071440m	69.678	ng/ul
71) Anthracene	17.58	178	350557	11.626	ng/ul 98
74) Carbazole	17.84	167	143007	5.726	ng/ul 99
76) Fluoranthene	19.50	202	2283335m	66.474	ng/ul
79) Pyrene	19.86	202	2059772	57.996	ng/ul 96
82) Benzo(a)anthracene	21.71	228	1143010	31.223	ng/ul 97
84) Chrysene	21.77	228	1218241	35.655	ng/ul 98
87) Benzo(b)fluoranthene	23.97	252	1484016	36.623	ng/ul 99
88) Benzo(k)fluoranthene	24.02	252	491476m	12.614	ng/ul
90) Benzo(a)pyrene	24.86	252	1057596	27.389	ng/ul 99
91) Indeno(1,2,3-cd)pyrene	28.75	276	621052	13.789	ng/ul 98
92) Dibenzo(a,h)anthracene	28.78	278	165673m	4.510	ng/ul
93) Benzo(a,h,i)perylene	29.91	276	516350	13.732	ng/ul 98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

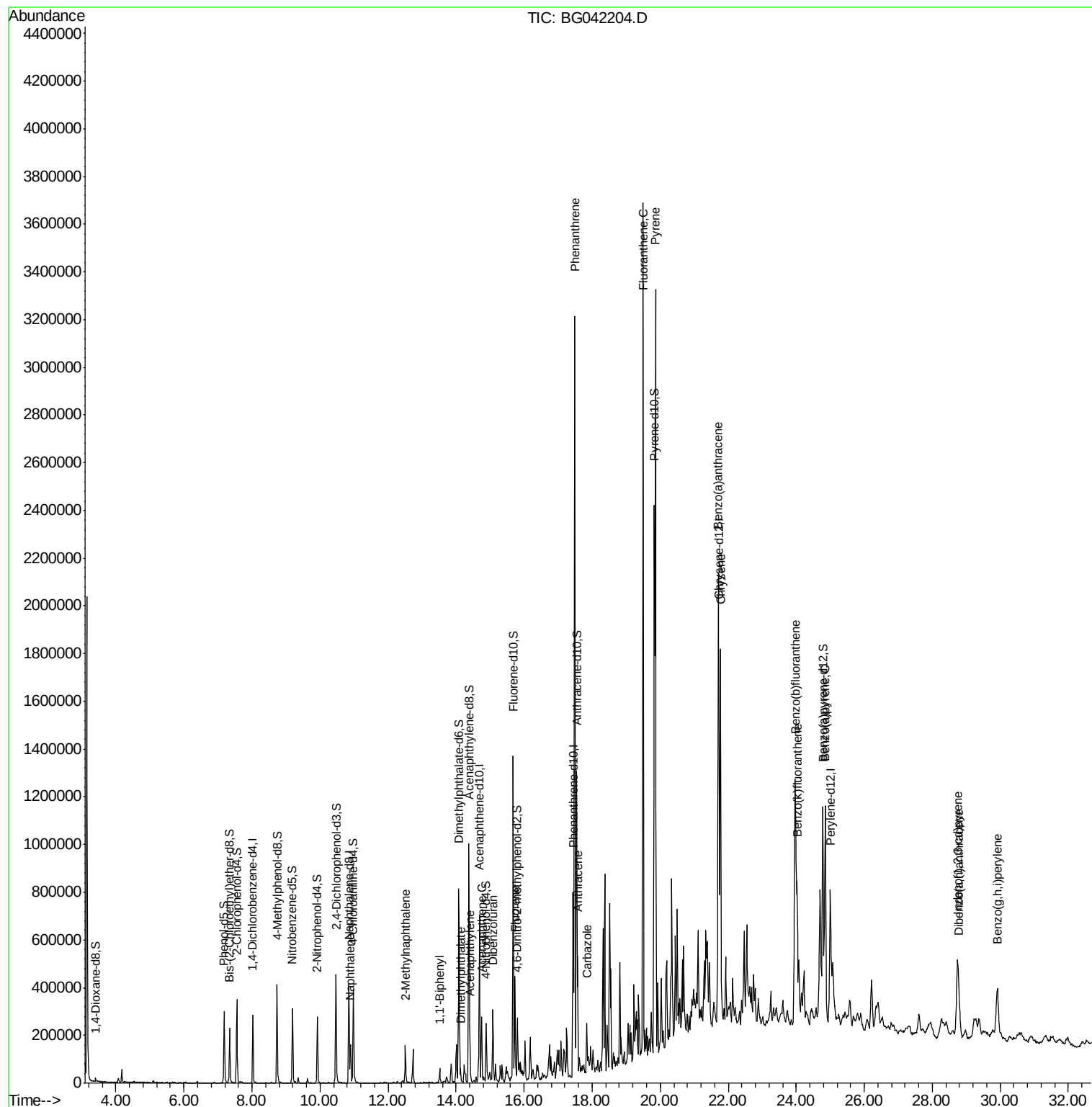
Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\
Data File : BG042204.D
Acq On : 14 Aug 2019 10:37
Operator : HP/JU
Sample : K4304-10
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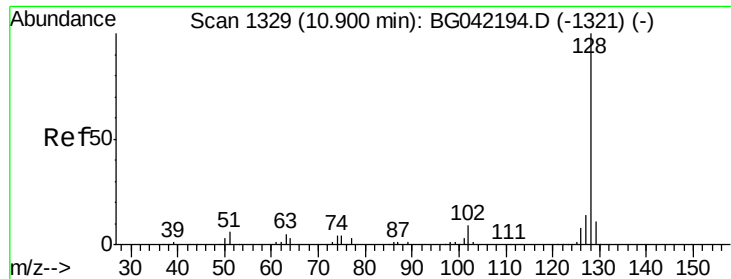
Instrument :
BNA_G
ClientSampled :
CB5P1

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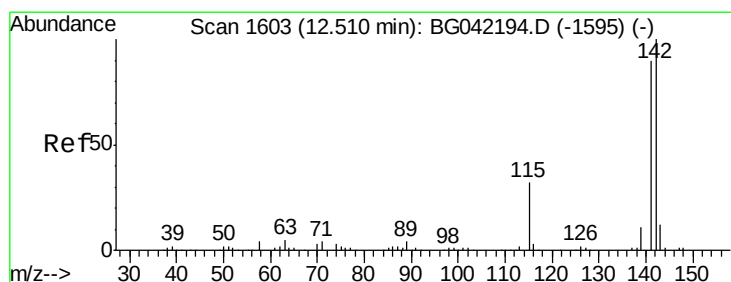
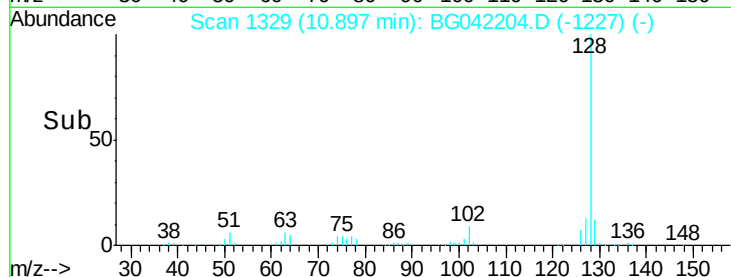
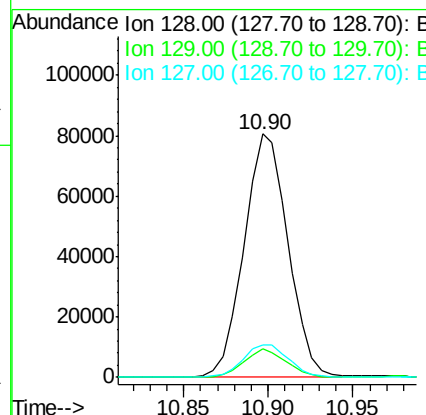
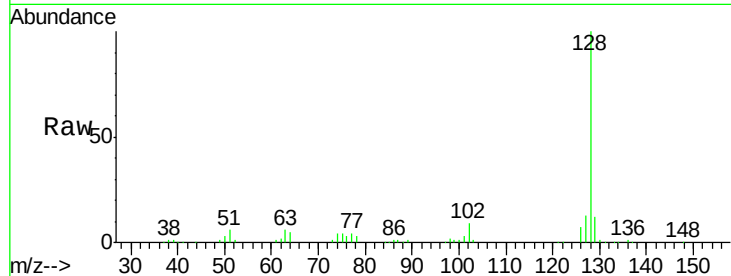
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Naphthalene
Concen: 7.158 ng/ul
RT: 10.90 min Scan# 1329
Delta R.T. -0.00 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Instrument :
BNA_G
ClientSampled :
CB5P1

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.5	14.3
127	13.5	11.4	17.0

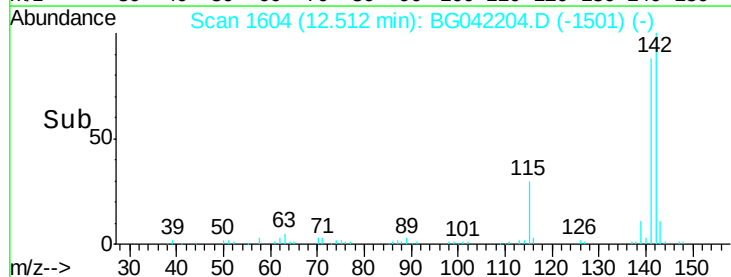
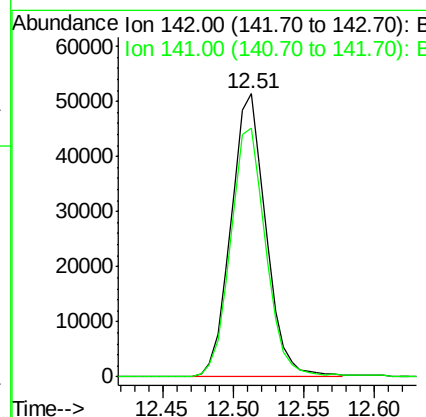
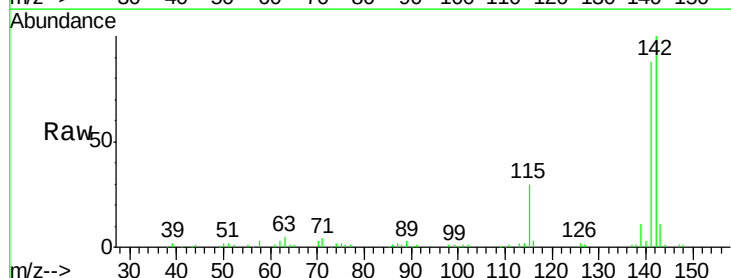
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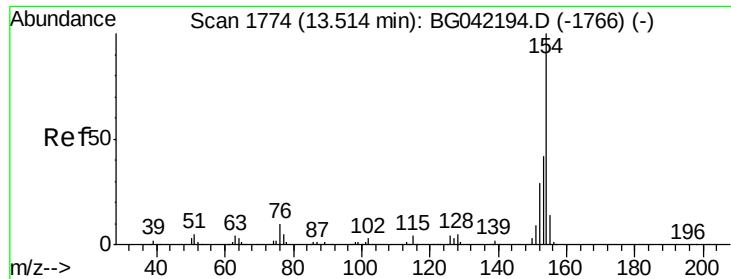
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#34
2-Methylnaphthalene
Concen: 5.472 ng/ul
RT: 12.51 min Scan# 1604
Delta R.T. 0.00 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Tgt Ion	Ratio	Lower	Upper
142	100		
141	88.0	72.9	109.3





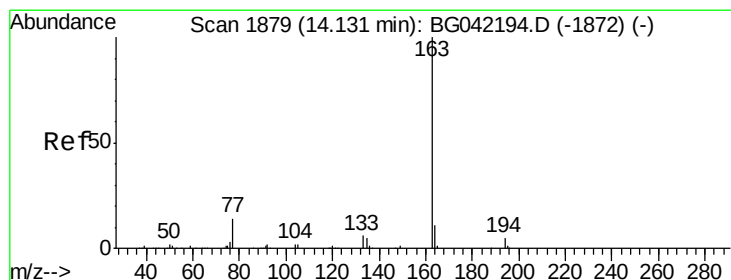
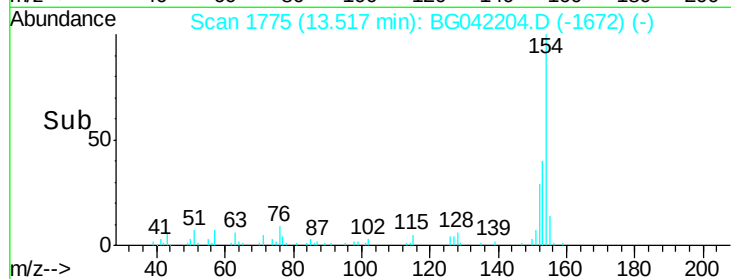
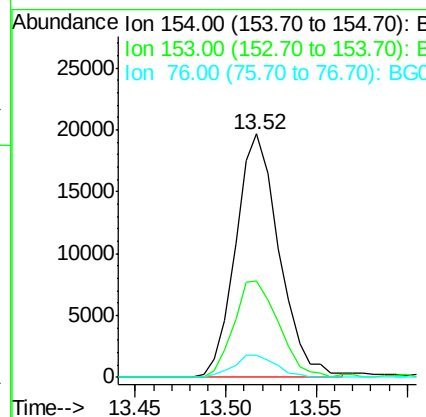
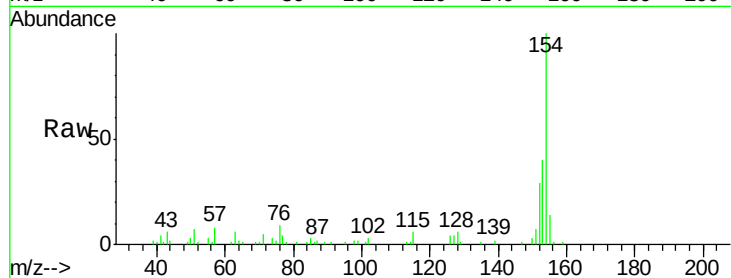
#40
 1,1'-Biphenyl
 Concen: 1.674 ng/ul
 RT: 13.52 min Scan# 1775
 Delta R.T. 0.00 min
 Lab File: BG042204.D
 Acq: 14 Aug 2019 10:37

Instrument :
 BNA_G
 ClientSampled :
 CB5P1

Tot Ion:	154	Resp:	32720
Ion Ratio	Lower	Upper	
154	100		
153	39.5	32.6	48.8
76	8.9	8.6	13.0

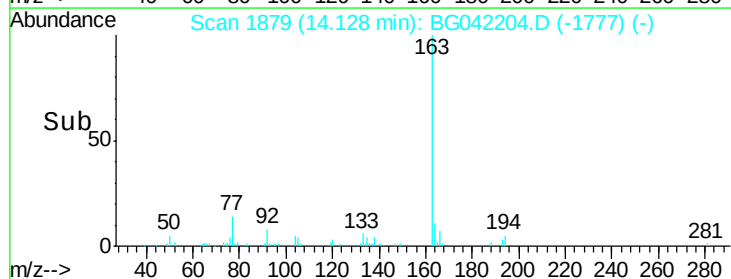
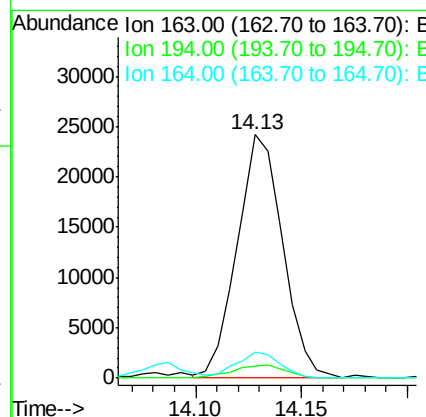
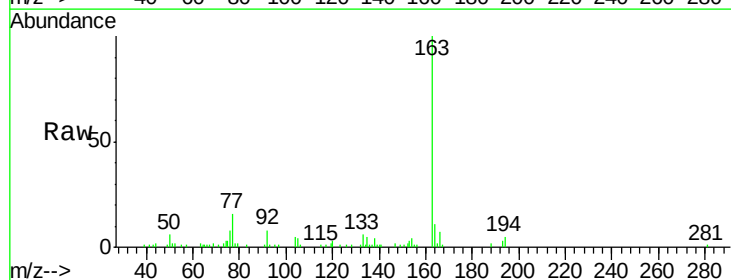
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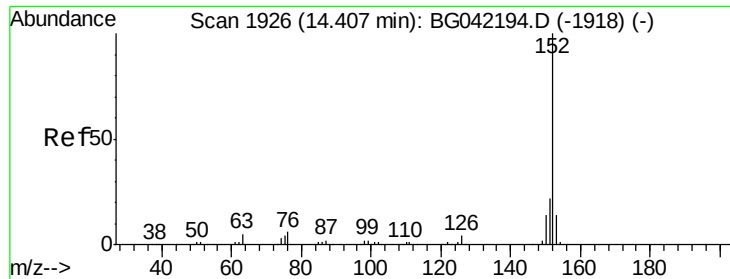
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#44
 Dimethylphthalate
 Concen: 1.748 ng/ul
 RT: 14.13 min Scan# 1879
 Delta R.T. -0.00 min
 Lab File: BG042204.D
 Acq: 14 Aug 2019 10:37

Tgt Ion:	163	Resp:	36182
Ion Ratio	Lower	Upper	
163	100		
194	4.7	4.2	6.2
164	10.8	7.8	11.8





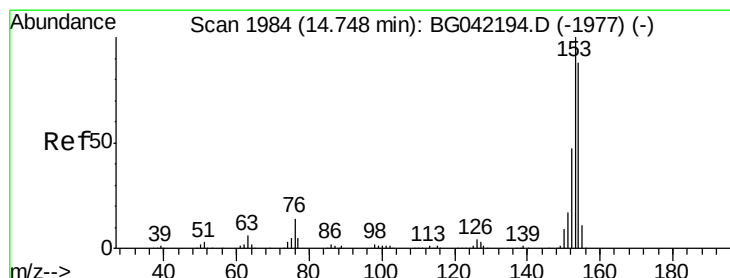
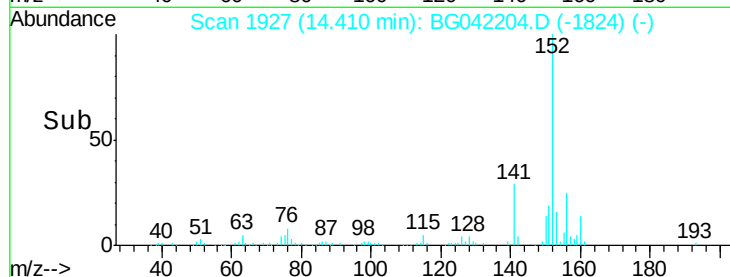
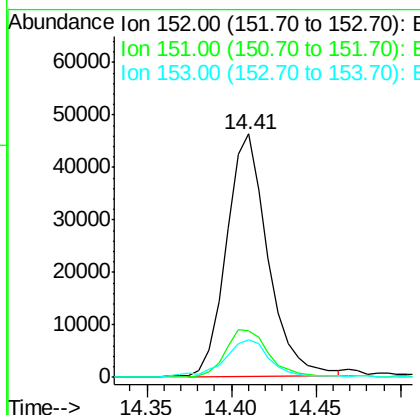
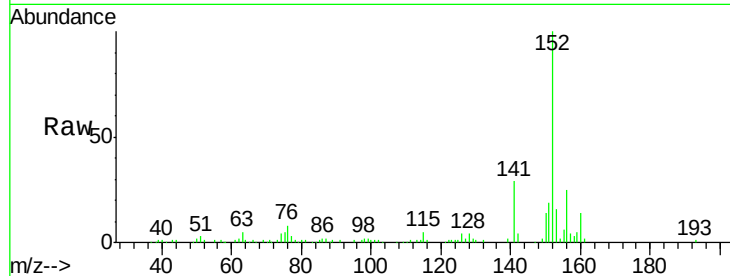
#47
Acenaphthylene
Concen: 3.278 ng/ul
RT: 14.41 min Scan# 1927
Delta R.T. 0.00 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Instrument :
BNA_G
ClientSampleId :
CB5P1

Tot Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.8	25.2
153	15.6	10.3	15.5#

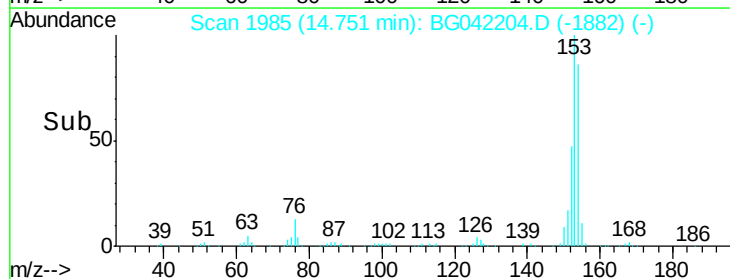
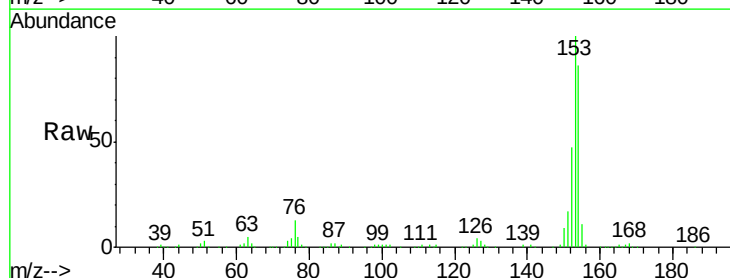
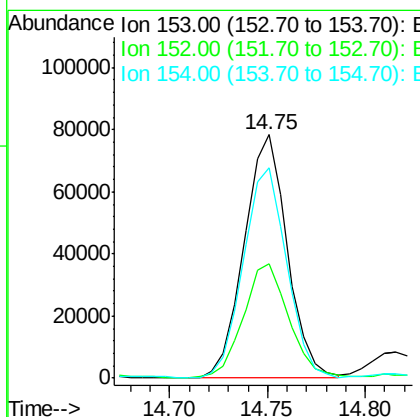
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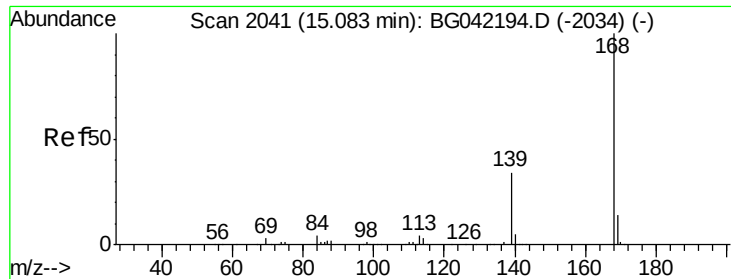
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#49
Acenaphthene
Concen: 7.145 ng/ul
RT: 14.75 min Scan# 1985
Delta R.T. 0.00 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Tgt Ion	Ratio	Lower	Upper
153	100		
152	47.1	37.8	56.8
154	86.5	69.4	104.2





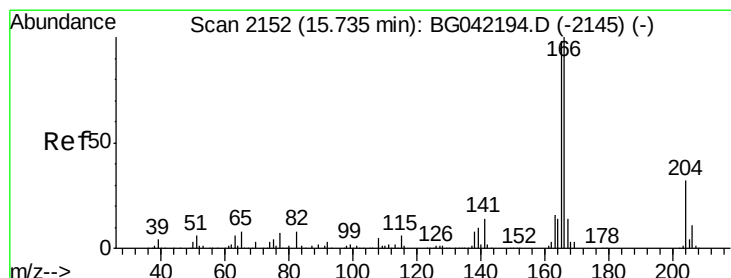
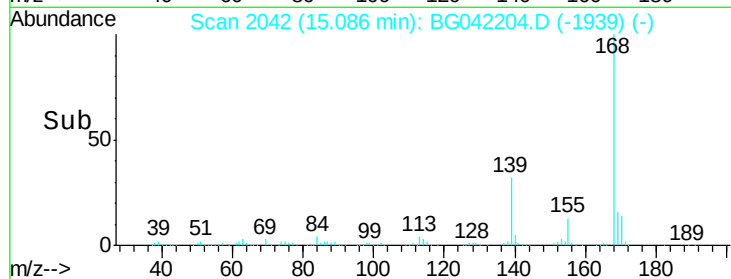
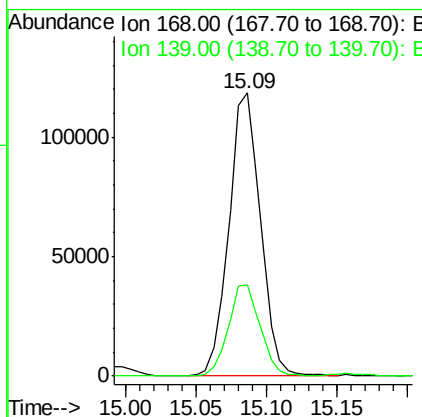
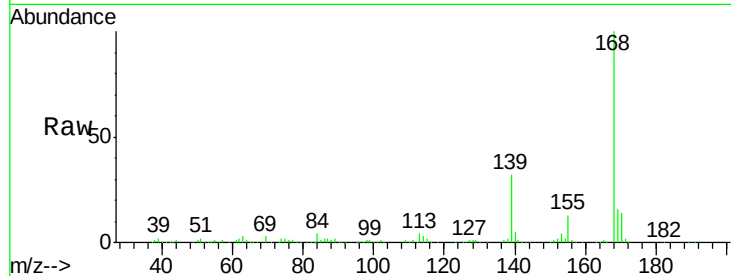
#53
Dibenzofuran
Concen: 7.302 ng/ul
RT: 15.09 min Scan# 2042
Delta R.T. 0.00 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Instrument :
BNA_G
ClientSampleId :
CB5P1

Tot Ion	Ratio	Resp	Lower	Upper
168	100	183142		
139	32.3	27.3	40.9	

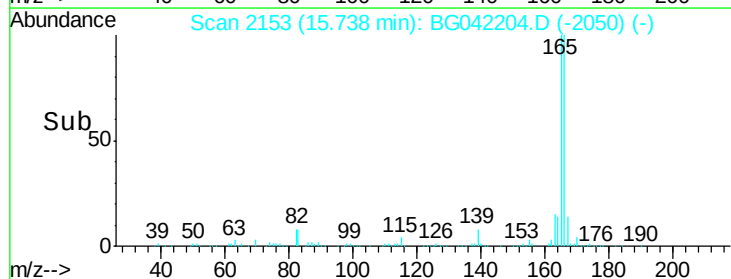
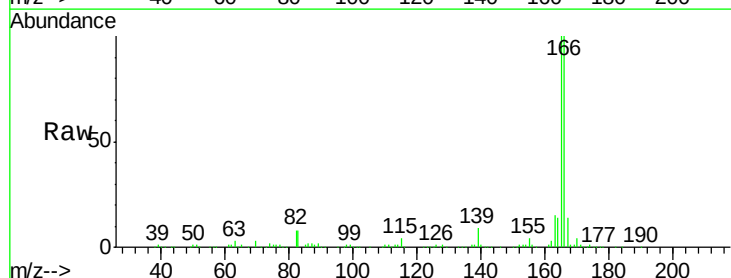
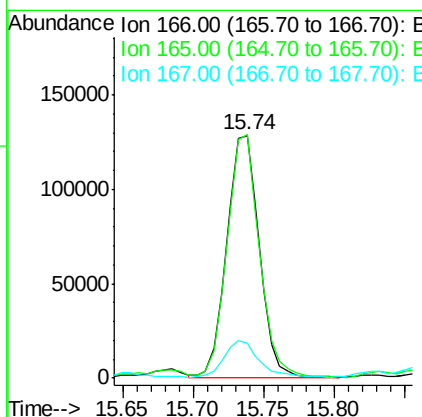
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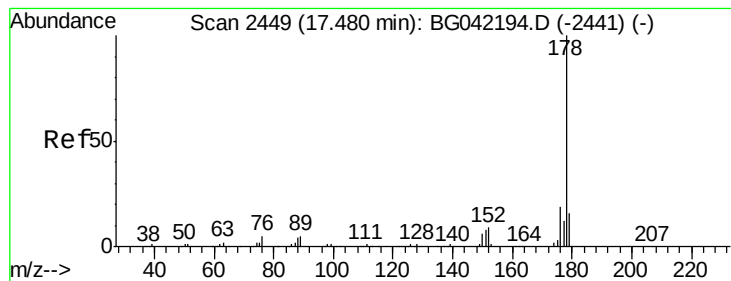
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#58
Fluorene
Concen: 10.191 ng/ul
RT: 15.74 min Scan# 2153
Delta R.T. 0.00 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Tgt Ion	Ratio	Resp	Lower	Upper
166	100	205864		
165	100.5	81.1	121.7	
167	14.3	11.0	16.4	





#69

Phenanthrene

Concen: 69.678 ng/ul m

RT: 17.49 min Scan# 2451

Delta R.T. 0.01 min

Lab File: BG042204.D

Acq: 14 Aug 2019 10:37

Instrument :

BNA_G

ClientSampleId :

CB5P1

Tot Ion:178 Resp: 2071440

Ion Ratio Lower Upper

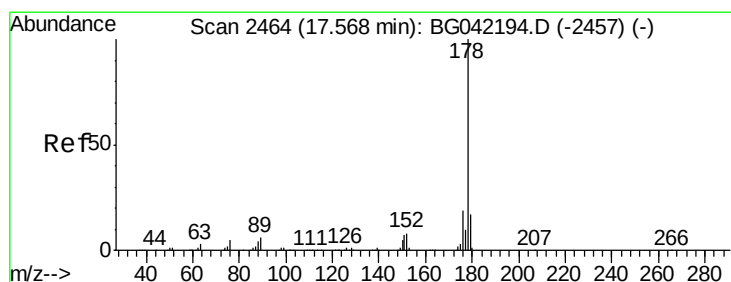
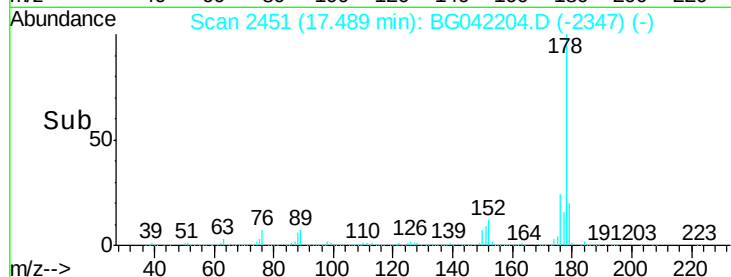
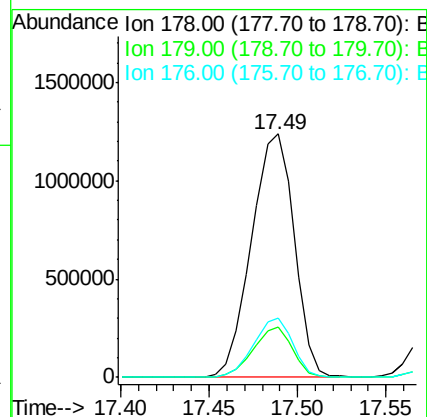
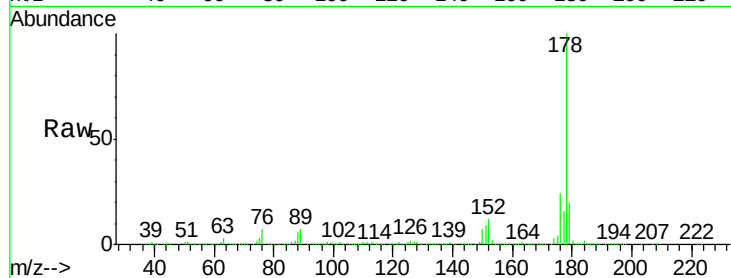
178 100

179 20.4 12.8 19.2#

176 24.4 15.4 23.2#

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#71

Anthracene

Concen: 11.626 ng/ul

RT: 17.58 min Scan# 2466

Delta R.T. 0.00 min

Lab File: BG042204.D

Acq: 14 Aug 2019 10:37

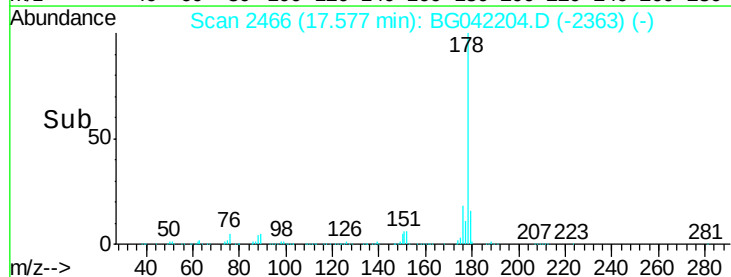
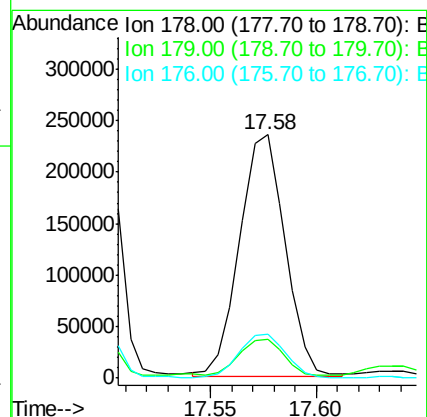
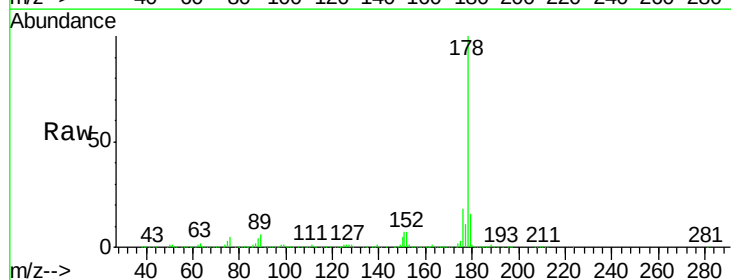
Tgt Ion:178 Resp: 350557

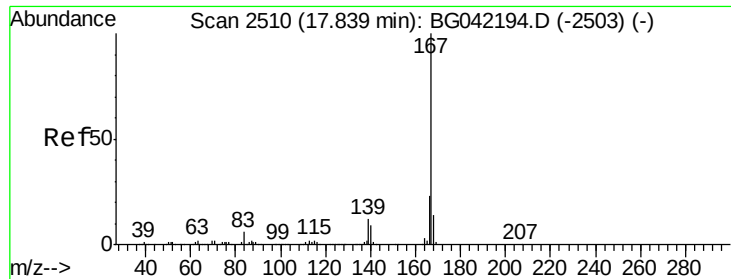
Ion Ratio Lower Upper

178 100

179 16.0 13.4 20.0

176 18.2 15.4 23.2





#74

Carbazole

Concen: 5.726 ng/ul

RT: 17.84 min Scan# 2511

Delta R.T. 0.00 min

Lab File: BG042204.D

Acq: 14 Aug 2019 10:37

Instrument :

BNA_G

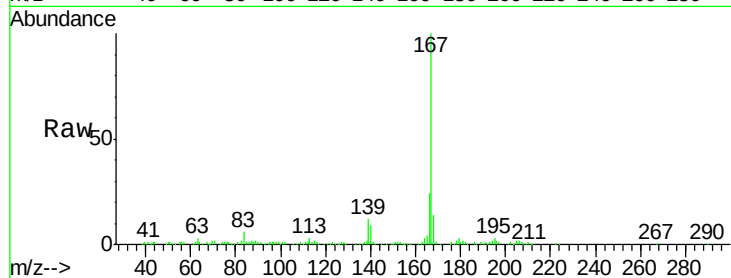
ClientSampleId :

CB5P1

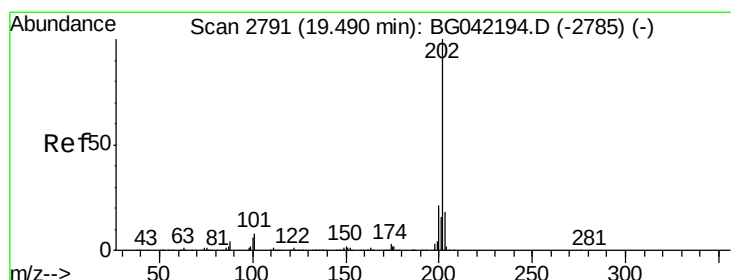
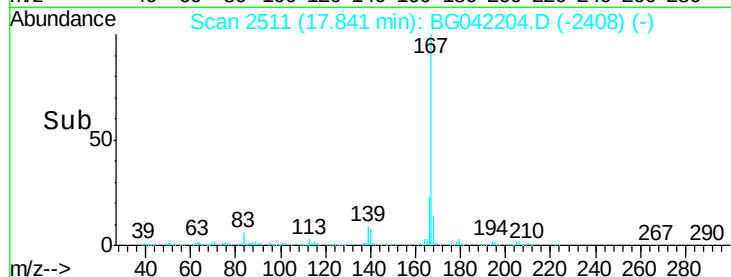
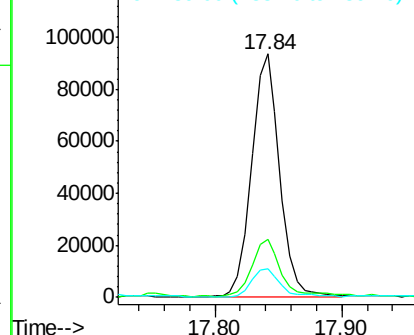
Tot Ion:	167	Resp:	143007
Ion Ratio	Lower	Upper	
167	100		
166	23.6	18.2	27.4
139	11.7	9.6	14.4

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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: 66.474 ng/ul m

RT: 19.50 min Scan# 2793

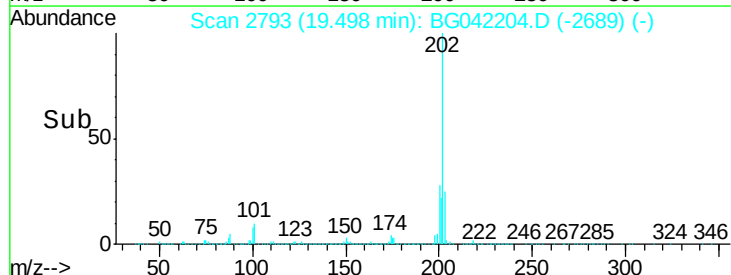
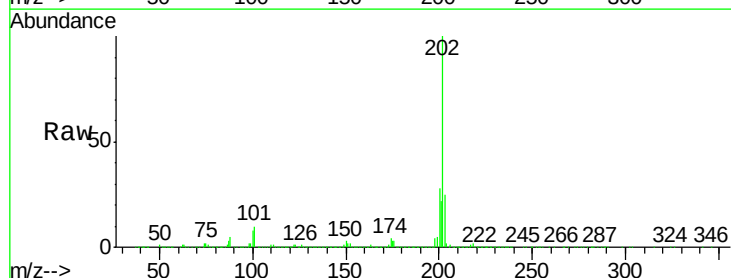
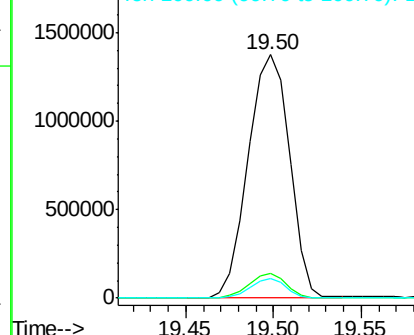
Delta R.T. 0.01 min

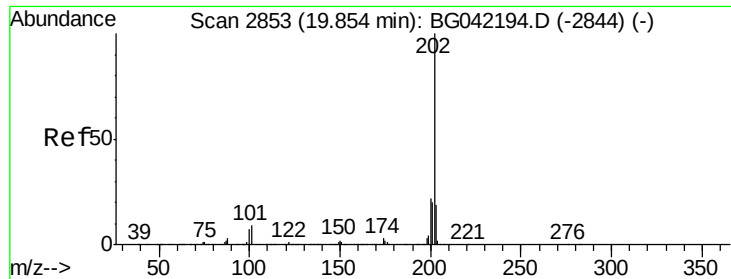
Lab File: BG042204.D

Acq: 14 Aug 2019 10:37

Tgt Ion:	202	Resp:	2283335
Ion Ratio	Lower	Upper	
202	100		
101	10.3	6.7	10.1#
100	7.9	5.3	7.9

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





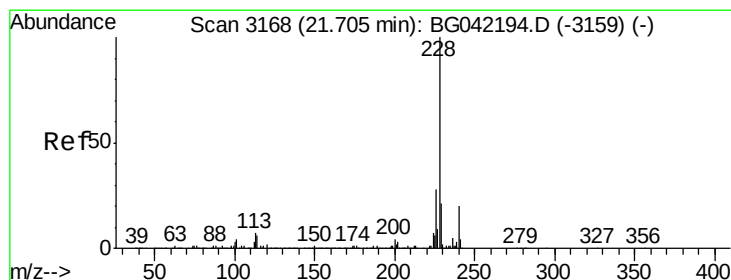
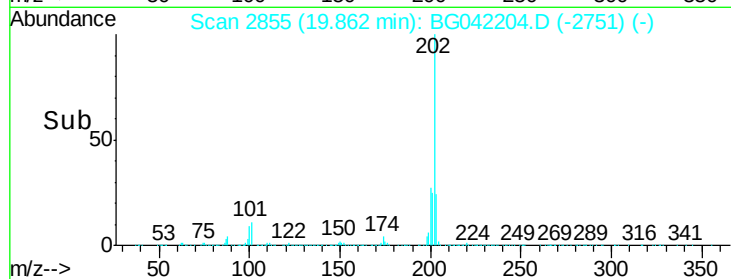
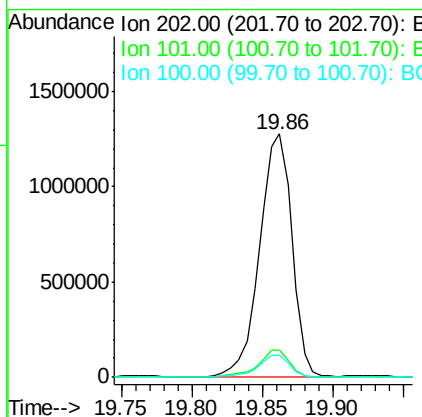
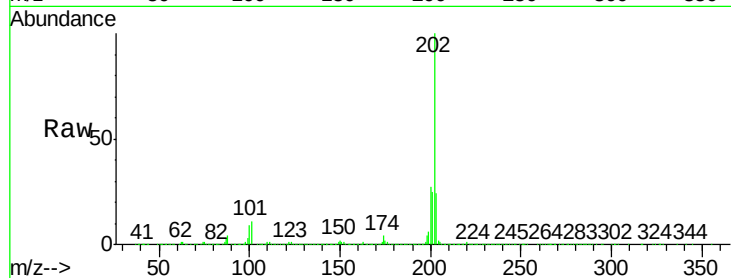
#79
Pvrene
Concen: 57.996 ng/ul
RT: 19.86 min Scan# 2855
Delta R.T. 0.01 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Instrument :
BNA_G
ClientSampleId :
CB5P1

Tot Ion	Ratio	Lower	Upper
202	100		
101	11.2	7.6	11.4
100	9.2	6.5	9.7

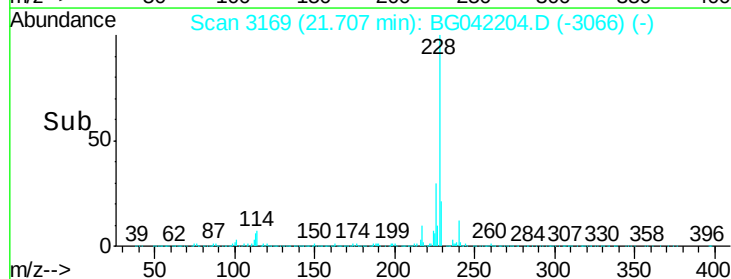
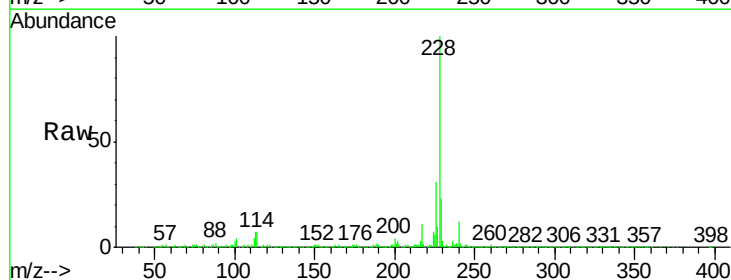
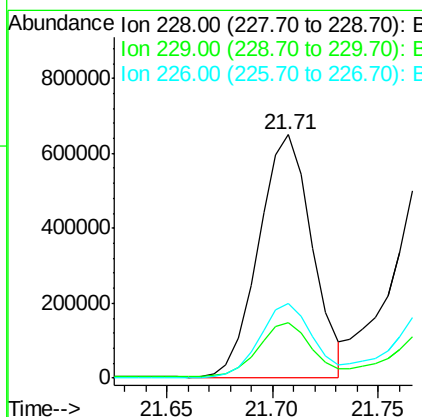
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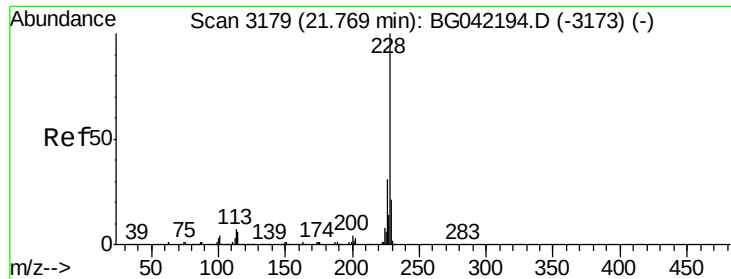
mohammad
8/15/2019 5:11:48 PM



#82
Benzo(a)anthracene
Concen: 31.223 ng/ul
RT: 21.71 min Scan# 3169
Delta R.T. 0.00 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Tgt Ion	Ratio	Lower	Upper
228	100		
229	22.6	17.0	25.6
226	30.6	23.3	34.9





#84

Chrysene

Concen: 35.655 ng/ul

RT: 21.77 min Scan# 3180

Delta R.T. 0.00 min

Lab File: BG042204.D

Acq: 14 Aug 2019 10:37

Instrument :

BNA_G

ClientSampleId :

CB5P1

Tot Ion:228 Resp: 1218241

Ion Ratio Lower Upper

228 100

226 33.3 25.7 38.5

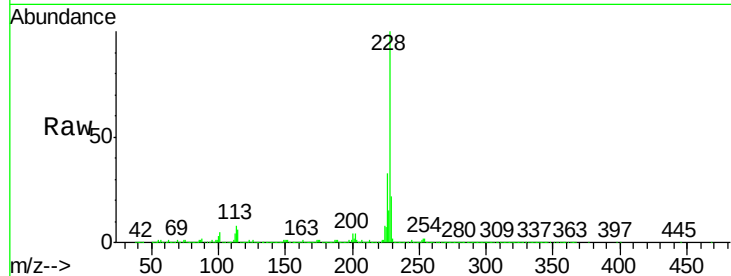
229 22.0 16.6 24.8

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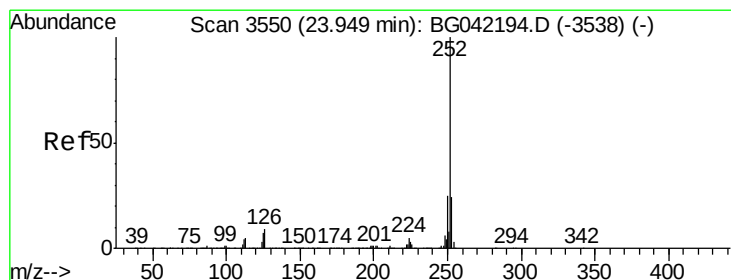
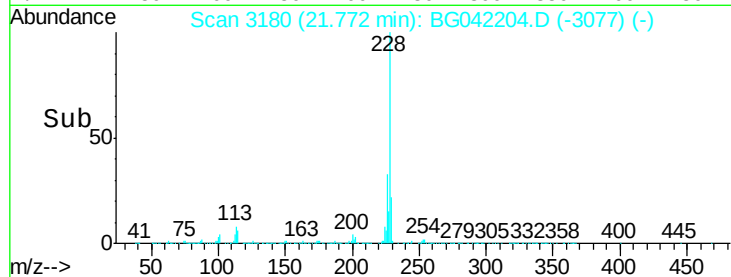
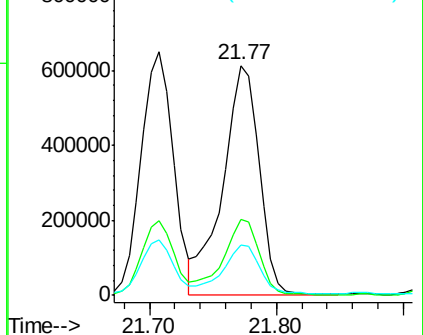
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Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Benzo(b)fluoranthene

Concen: 36.623 ng/ul

RT: 23.97 min Scan# 3554

Delta R.T. 0.02 min

Lab File: BG042204.D

Acq: 14 Aug 2019 10:37

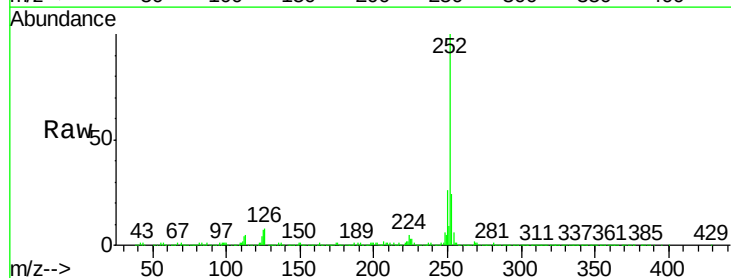
Tgt Ion:252 Resp: 1484016

Ion Ratio Lower Upper

252 100

253 23.9 18.4 27.6

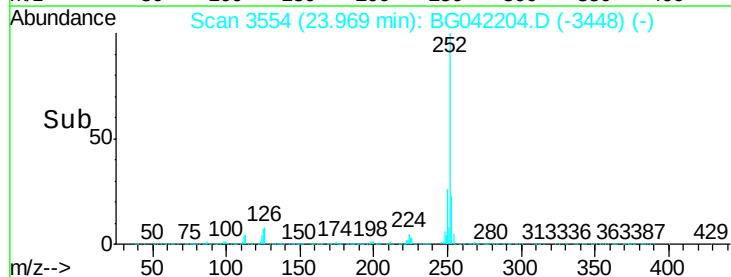
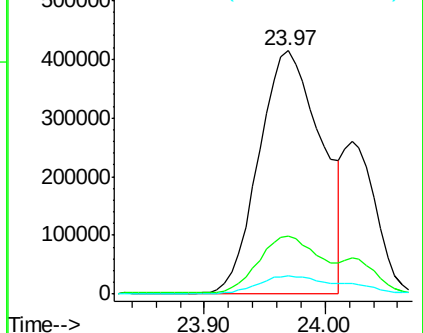
125 7.4 5.8 8.8

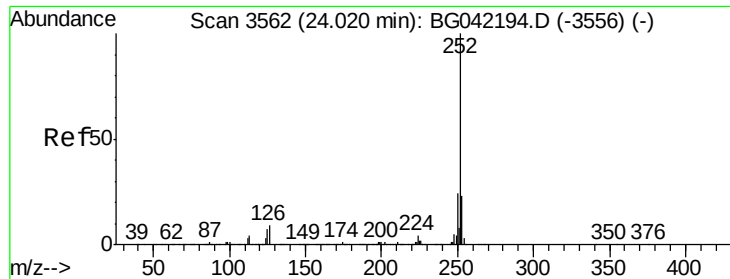


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





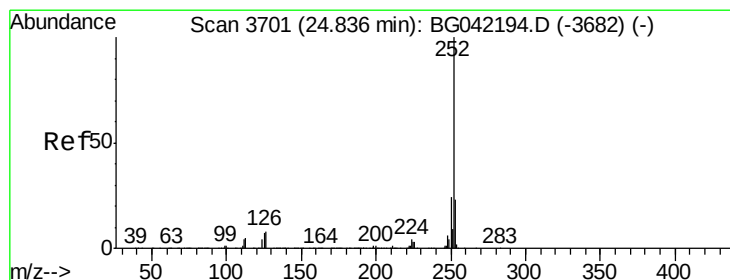
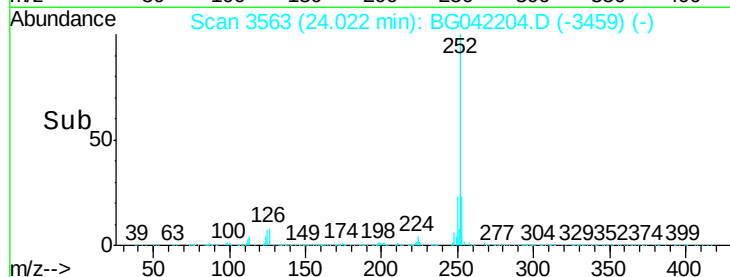
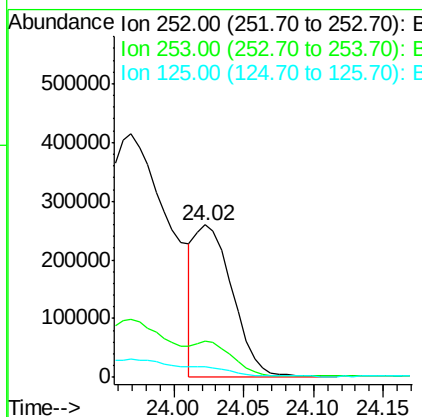
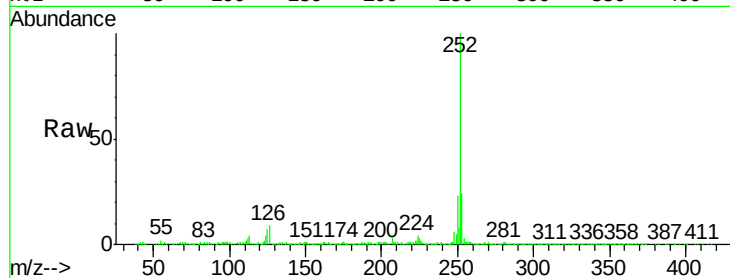
#88
Benzo(k)fluoranthene
Concen: 12.614 ng/ul m
RT: 24.02 min Scan# 3563
Delta R.T. 0.01 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Instrument :
BNA_G
ClientSampled :
CB5P1

Tot Ion	Ratio	Lower	Upper
252	100		
253	24.0	18.3	27.5
125	7.4	5.5	8.3

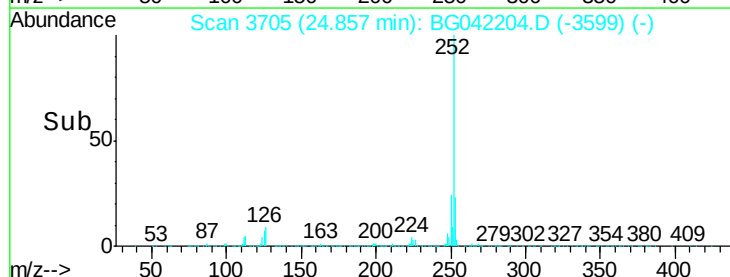
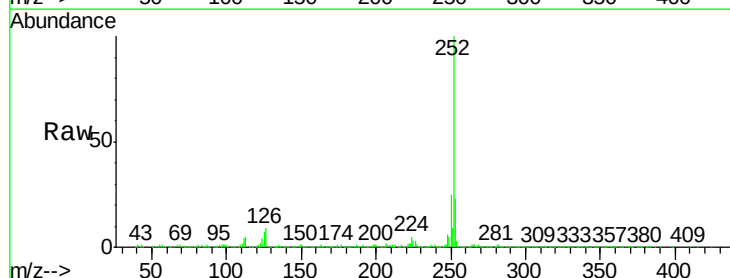
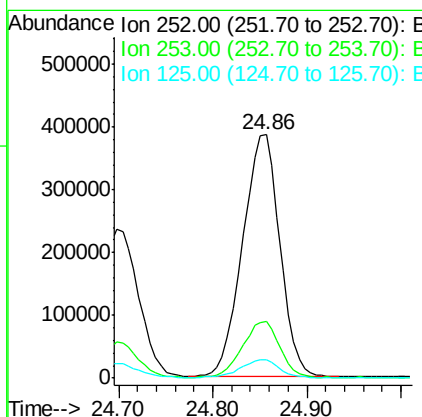
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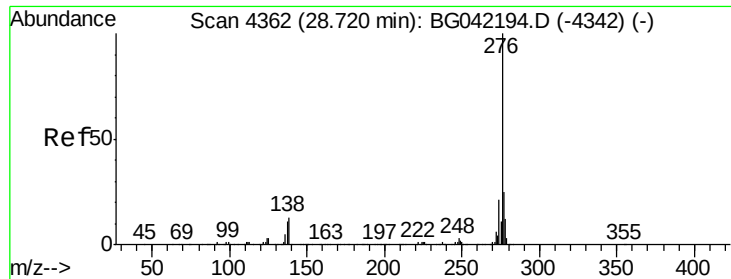
mohammad
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#90
Benzo(a)pyrene
Concen: 27.389 ng/ul
RT: 24.86 min Scan# 3705
Delta R.T. 0.02 min
Lab File: BG042204.D
Acq: 14 Aug 2019 10:37

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.2	18.3	27.5
125	7.3	6.5	9.7





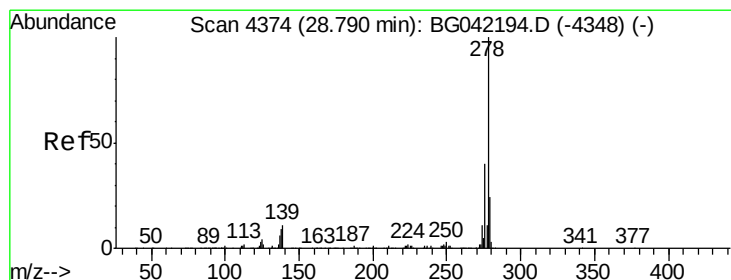
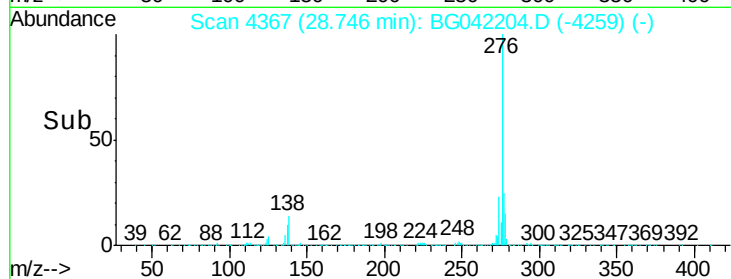
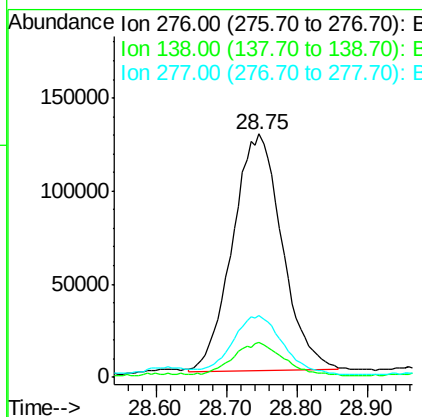
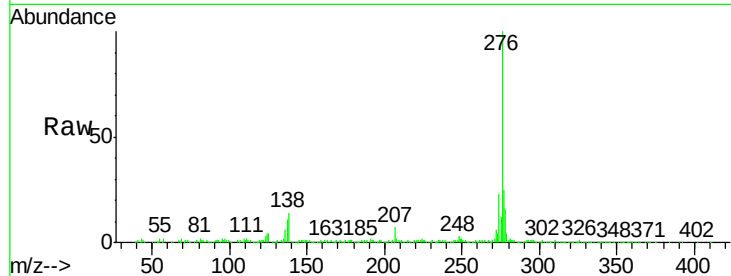
#91
 Indeno(1,2,3-cd)pyrene
 Concen: 13.789 ng/ul
 RT: 28.75 min Scan# 4367
 Delta R.T. 0.03 min
 Lab File: BG042204.D
 Acq: 14 Aug 2019 10:37

Instrument :
 BNA_G
 ClientSampleId :
 CB5P1

Tot Ion	Ratio	Lower	Upper
276	100		
138	14.3	12.0	18.0
277	25.5	19.2	28.8

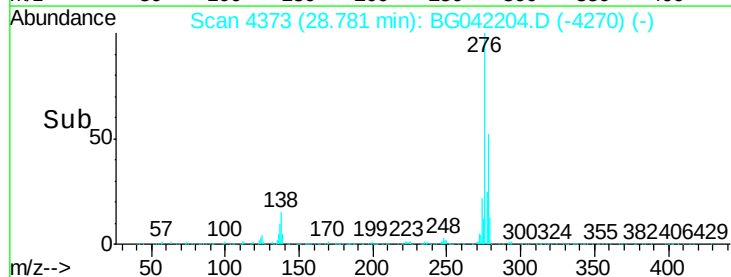
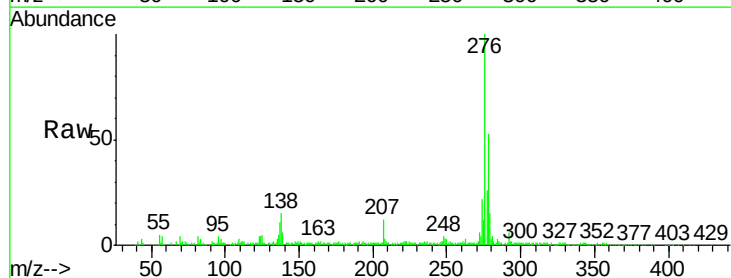
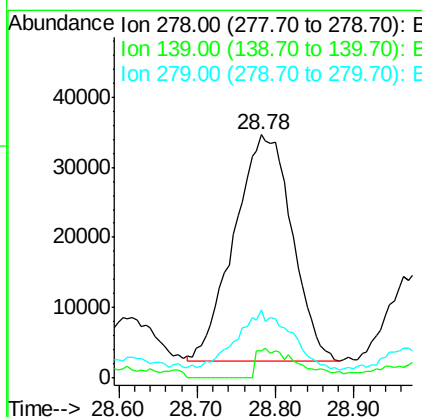
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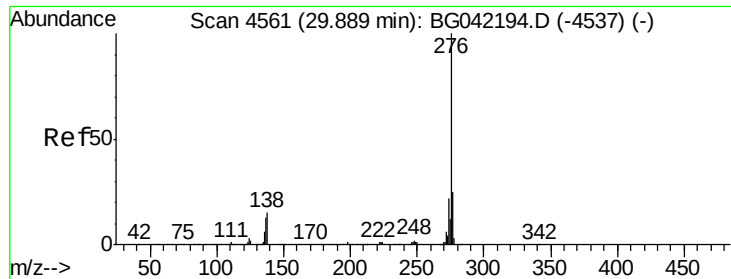
mohammad
 8/15/2019 5:11:48 PM



#92
 Dibenzo(a,h)anthracene
 Concen: 4.510 ng/ul m
 RT: 28.78 min Scan# 4373
 Delta R.T. 0.00 min
 Lab File: BG042204.D
 Acq: 14 Aug 2019 10:37

Tgt Ion	Ratio	Lower	Upper
278	100		
139	11.2	9.4	14.0
279	28.1	19.2	28.8





#93

Benzo(a,h,i)perylene

Concen: 13.732 ng/ul

RT: 29.91 min Scan# 4565

Delta R.T. 0.03 min

Lab File: BG042204.D

Acq: 14 Aug 2019 10:37

Instrument :

BNA_G

ClientSampleId :

CB5P1

Tot Ion:	276	Resp:	516350
Ion Ratio		Lower	Upper
276	100		
138	13.4	12.6	18.8
277	24.1	19.2	28.8

Manual Integrations
APPROVED

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