

Data Path : Z:\HPCHEM1\BNA M\DATA\BM063016\
 Data File : BM006165.D
 Acq On : 30 Jun 2016 19:48
 Operator : UM/SJ
 Sample : H3780-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 D9YF4

Manual Integrations
 APPROVED

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Quant Time: Jul 01 01:13:58 2016
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM062816.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Jun 29 00:57:09 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.65	152	213824	20.00	ng/ul	0.00
7) Naphthalene-d8	10.44	136	843296	20.00	ng/ul	0.00
15) Acenaphthene-d10	14.30	164	415615	20.00	ng/ul	0.00
23) Phenanthrene-d10	17.06	188	869790	20.00	ng/ul	0.00
29) Chrysene-d12	21.26	240	868570	20.00	ng/ul	0.00
34) Perylene-d12	23.48	264	1007708	20.00	ng/ul	0.02

System Monitoring Compounds

2) 1,4-Dioxane-d8	3.17	96	9024	1.96	ng/uL	0.00
3) Phenol-d5	6.83	99	368949	21.12	ng/ul	0.00
4) Bis-(2-Chloroethyl)ether-d	6.99	67	226653	22.01	ng/ul	0.00
5) 2-Chlorophenol-d4	7.19	132	285380	21.28	ng/ul	0.00
6) 4-Methylphenol-d8	8.36	113	279708	19.90	ng/ul	0.00
8) Nitrobenzene-d5	8.81	128	134048	23.60	ng/ul	0.00
9) 2-Nitrophenol-d4	9.53	143	146282	22.50	ng/ul	0.00
10) 2,4-Dichlorophenol-d3	10.06	165	252373	21.28	ng/ul	0.00
12) 4-Chloroaniline-d4	10.58	131	199184	21.25	ng/ul	0.00
16) Dimethylphthalate-d6	13.72	166	692892	23.26	ng/ul	0.00
17) Acenaphthylene-d8	14.00	160	883023	24.42	ng/ul	0.00
20) 4-Nitrophenol-d4	14.52	143	128523	22.74	ng/ul	0.01
21) Fluorene-d10	15.30	176	592660	23.31	ng/ul	0.00
24) 4,6-Dinitro-2-methylphenol	15.43	200	78430	25.46	ng/ul	0.00
26) Anthracene-d10	17.16	188	892681	25.58	ng/ul	0.00
30) Pyrene-d10	19.46	212	927523	26.52	ng/ul	0.00
37) Benzo(a)pyrene-d12	23.34	264	1022817	25.51	ng/ul	0.02

Target Compounds

						Ovalue
11) Naphthalene	10.49	128	76611	2.08	ng/ul	97
18) Acenaphthylene	14.03	152	83993	2.22	ng/ul	97
19) Acenaphthene	14.37	153	91867	3.80	ng/ul	97
22) Fluorene	15.36	166	135266	4.92	ng/ul	96
25) Phenanthrene	17.10	178	2663466	64.71	ng/ul	100
27) Anthracene	17.19	178	566353	13.39	ng/ul	98
28) Fluoranthene	19.13	202	4362526	86.54	ng/ul	97
31) Pyrene	19.49	202	3585199	78.26	ng/ul#	94
32) Benzo(a)anthracene	21.24	228	1954028	43.26	ng/ul	97
33) Chrysene	21.29	228	2015952	48.48	ng/ul	97
35) Benzo(b)fluoranthene	22.81	252	2846396	54.43	ng/ul	98
36) Benzo(k)fluoranthene	22.86	252	957530m	19.52	ng/ul	
38) Benzo(a)pyrene	23.39	252	1929076	39.04	ng/ul	98
39) Indeno(1,2,3-cd)pyrene	25.71	276	1517467	29.55	ng/ul#	92
40) Dibenzo(a,h)anthracene	25.71	278	397416m	9.35	ng/ul	
41) Benzo(g,h,i)perylene	26.40	276	1453882	33.82	ng/ul	98

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

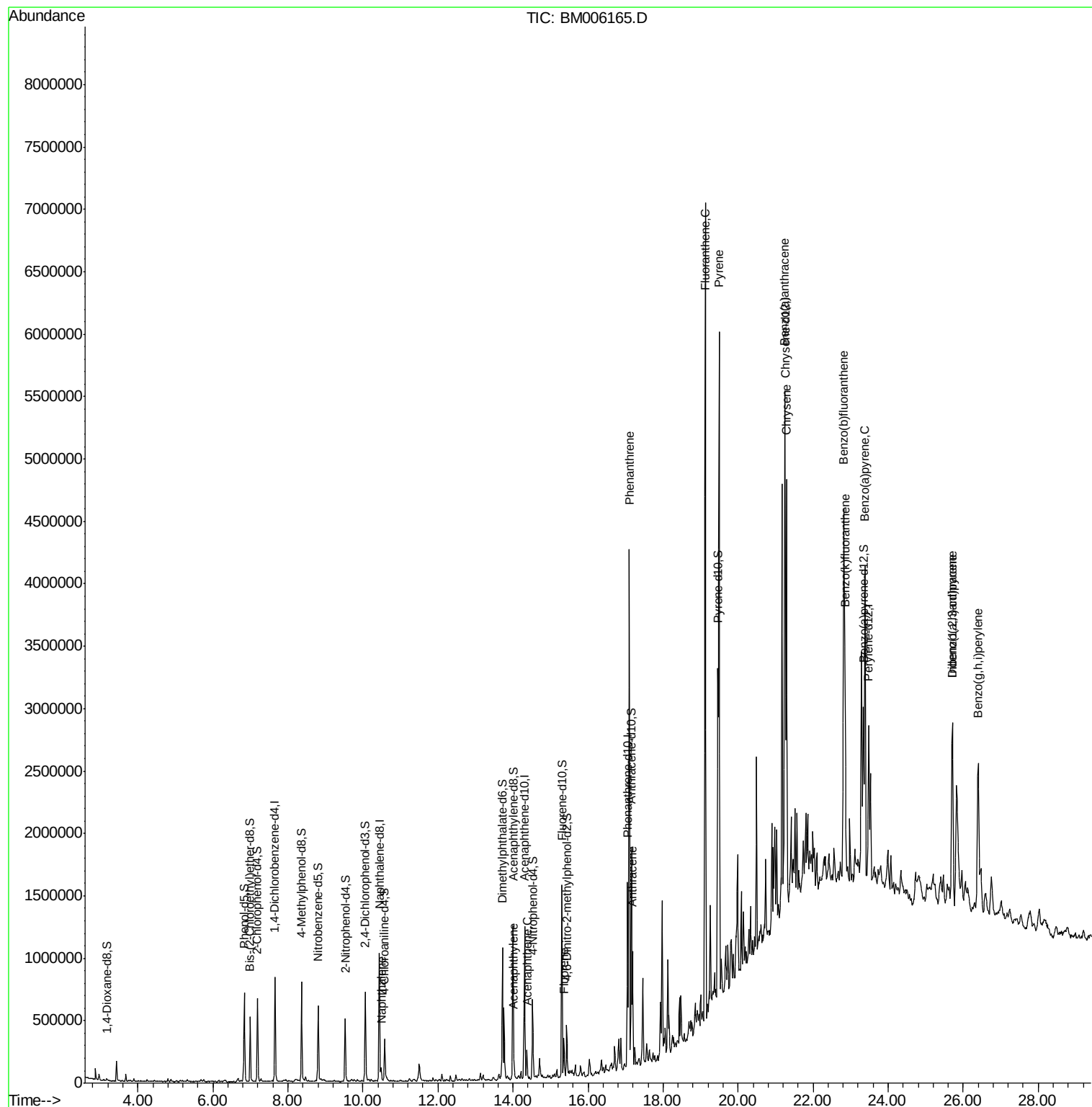
Data Path : Z:\HPCHEM1\BNA M\DATA\BM063016\
Data File : BM006165.D
Acq On : 30 Jun 2016 19:48
Operator : UM/SJ
Sample : H3780-03
Misc :
ALS Vial : 14 Sample Multiplier: 1

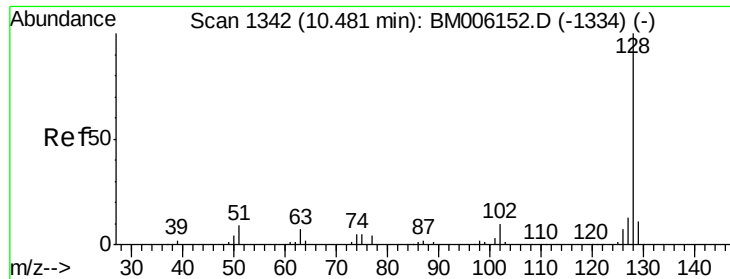
Instrument :
BNA_M
ClientSampleId :
D9YF4

Quant Time: Jul 01 01:13:58 2016
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM02.2-EPA-BM062816.M
Quant Title : SVOA CALIBRATION
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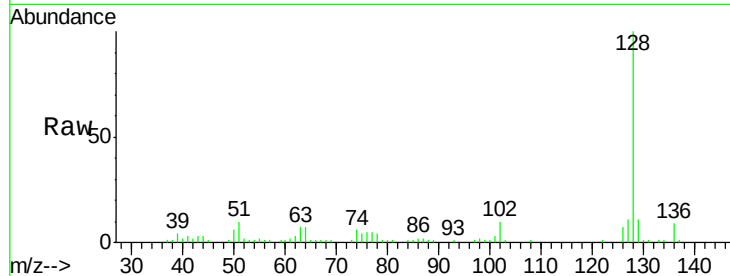
#11
Naphthalene
Concen: 2.08 ng/ul
RT: 10.49 min Scan# 1343
Delta R.T. -0.00 min
Lab File: BM006165.D
Acq: 30 Jun 2016 19:48

Instrument :
BNA_M
ClientSampleId :
D9YF4

Tot Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.9	13.3
127	11.1	10.5	15.7

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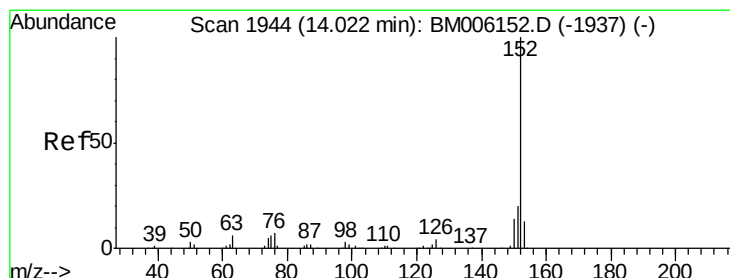
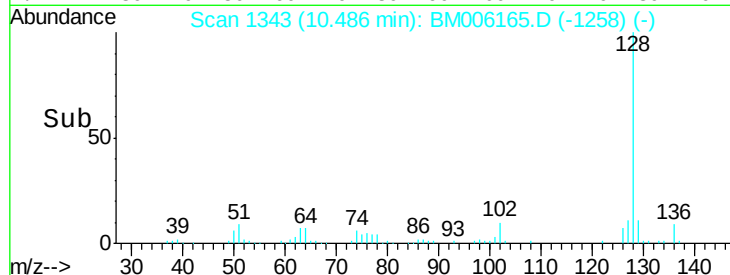
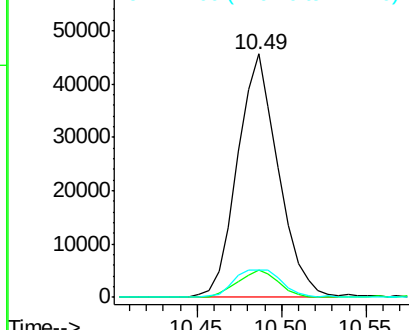


Abundance

Ion 128.00 (127.70 to 128.70): E

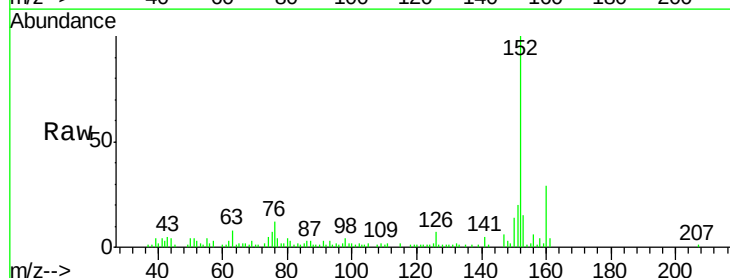
Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#18
Acenaphthylene
Concen: 2.22 ng/ul
RT: 14.03 min Scan# 1945
Delta R.T. 0.01 min
Lab File: BM006165.D
Acq: 30 Jun 2016 19:48

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	15.8	23.6
153	15.2	10.3	15.5

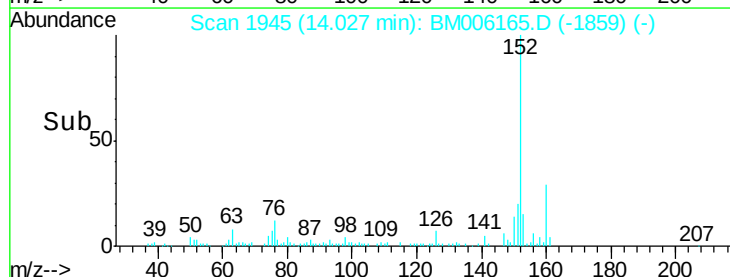
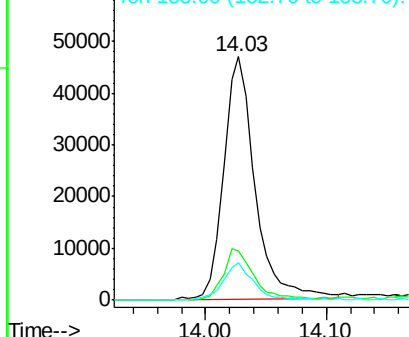


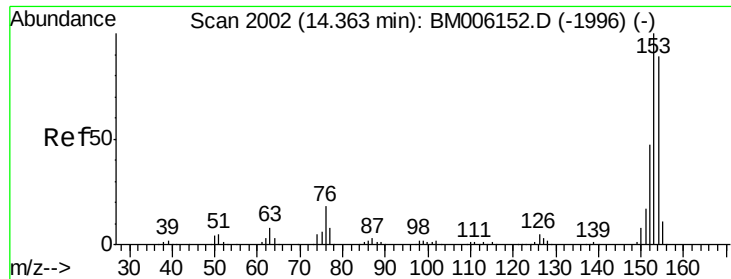
Abundance

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





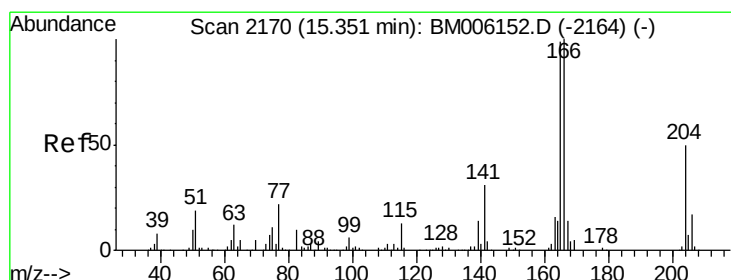
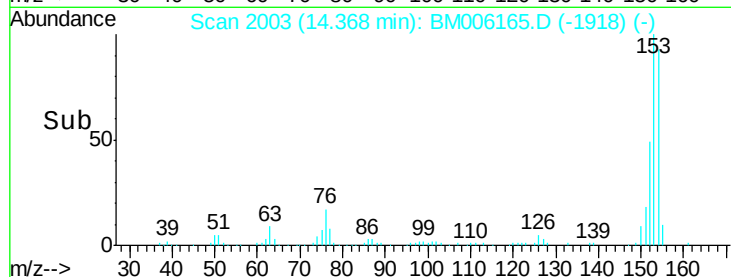
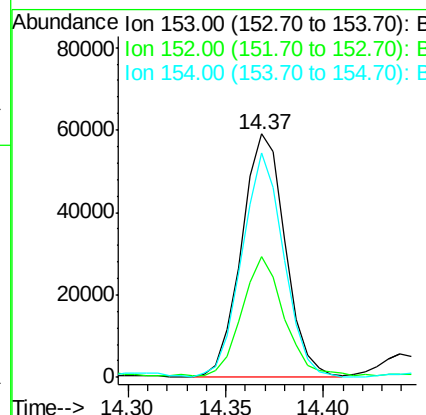
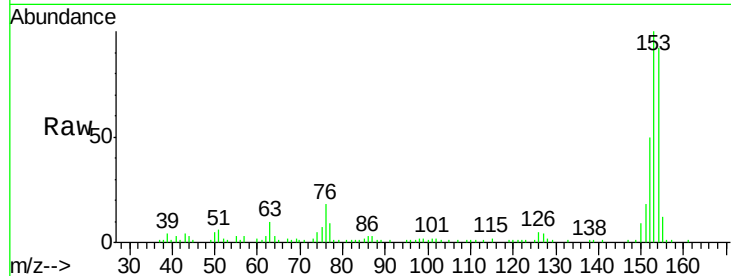
#19
Acenaphthene
Concen: 3.80 ng/ul
RT: 14.37 min Scan# 2003
Delta R.T. -0.00 min
Lab File: BM006165.D
Acq: 30 Jun 2016 19:48

Instrument :
BNA_M
ClientSampleId :
D9YF4

Tot Ion	Ratio	Lower	Upper
153	100		
152	49.7	38.1	57.1
154	92.3	71.6	107.4

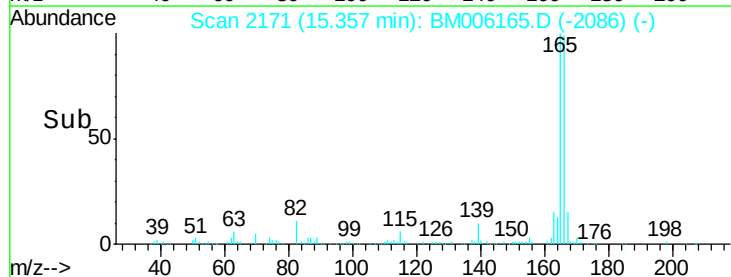
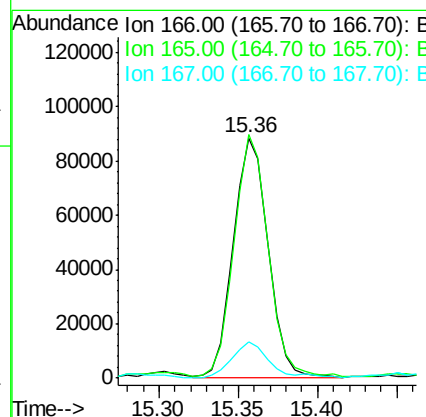
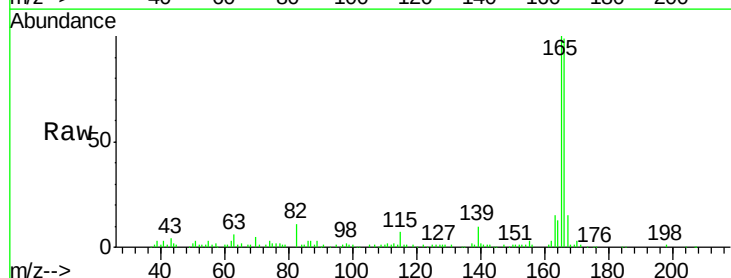
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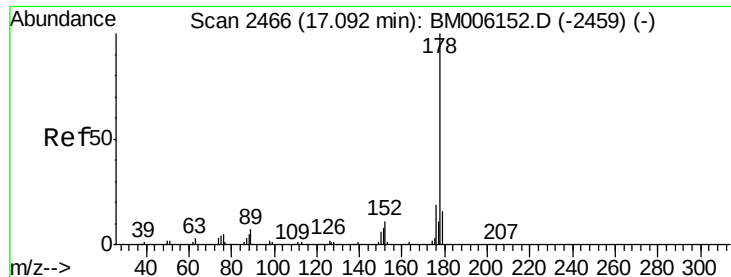
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#22
Fluorene
Concen: 4.92 ng/ul
RT: 15.36 min Scan# 2171
Delta R.T. -0.00 min
Lab File: BM006165.D
Acq: 30 Jun 2016 19:48

Tgt Ion	Ratio	Lower	Upper
166	100		
165	101.5	78.4	117.6
167	15.0	10.6	16.0





#25

Phenanthrene

Concen: 64.71 ng/ul

RT: 17.10 min Scan# 2468

Delta R.T. 0.01 min

Lab File: BM006165.D

Acq: 30 Jun 2016 19:48

Instrument :

BNA_M

ClientSampleId :

D9YF4

Tot Ion:178 Resp: 2663466

Ion Ratio Lower Upper

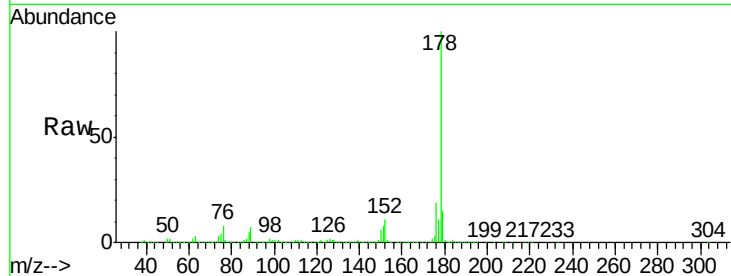
178 100

179 15.4 12.2 18.2

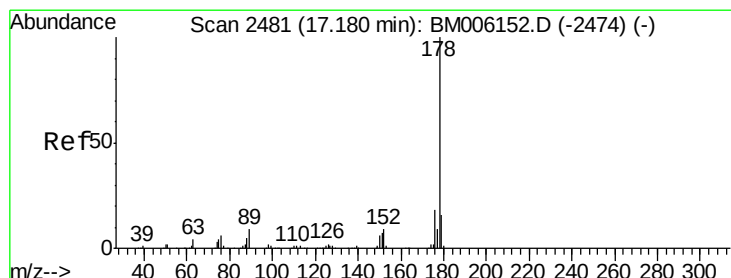
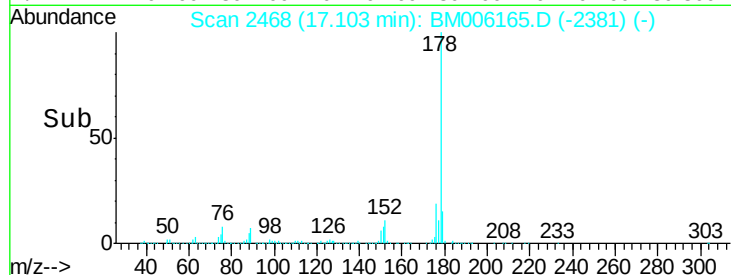
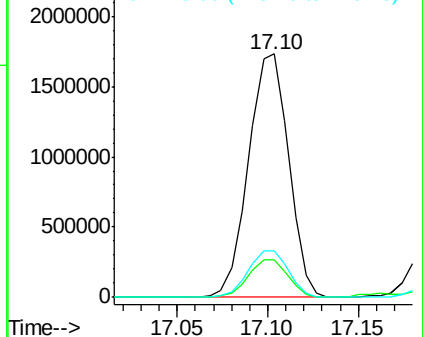
176 19.2 15.3 22.9

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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



#27

Anthracene

Concen: 13.39 ng/ul

RT: 17.19 min Scan# 2483

Delta R.T. 0.01 min

Lab File: BM006165.D

Acq: 30 Jun 2016 19:48

Tgt Ion:178 Resp: 566353

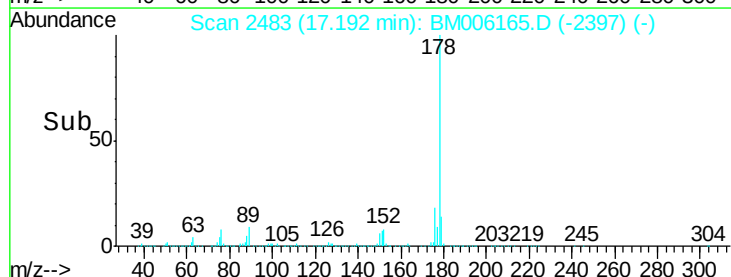
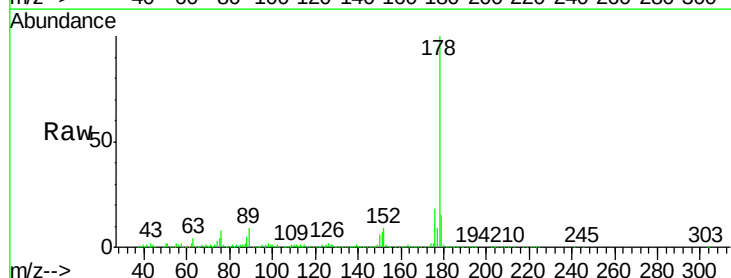
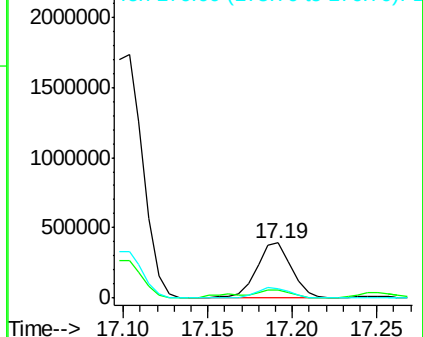
Ion Ratio Lower Upper

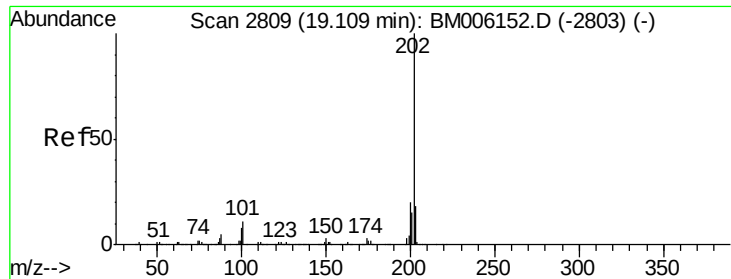
178 100

179 14.7 12.3 18.5

176 17.7 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





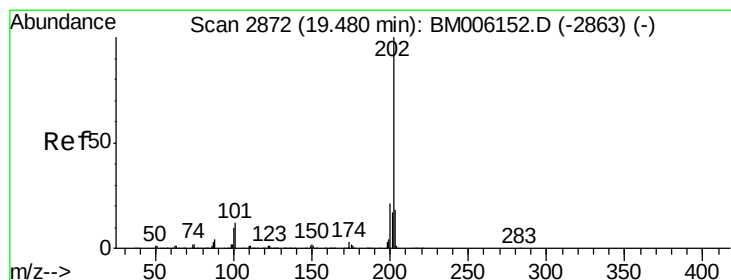
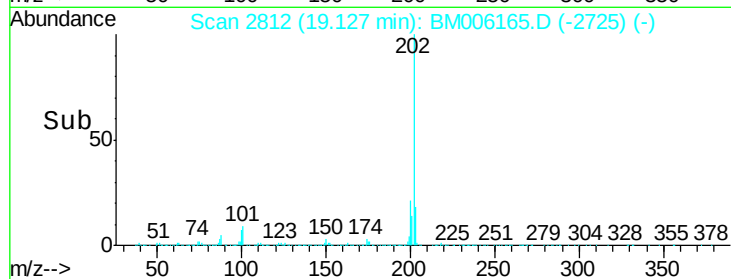
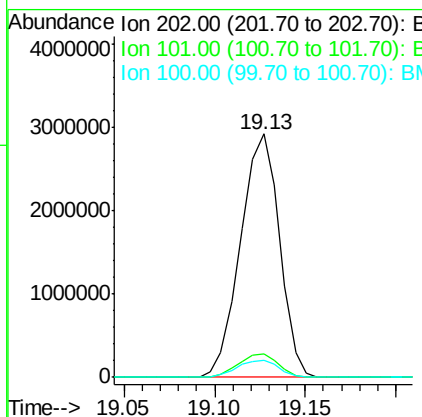
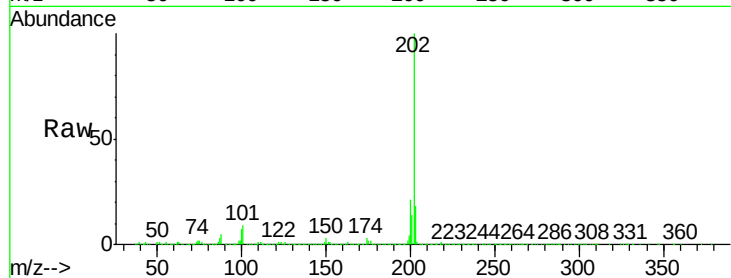
#28
Fluoranthene
Concen: 86.54 ng/ul
RT: 19.13 min Scan# 2812
Delta R.T. 0.01 min
Lab File: BM006165.D
Acq: 30 Jun 2016 19:48

Instrument :
BNA_M
ClientSampleId :
D9YF4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
202	100		4362526		
101	9.4	8.5	12.7		
100	6.8	6.5	9.7		

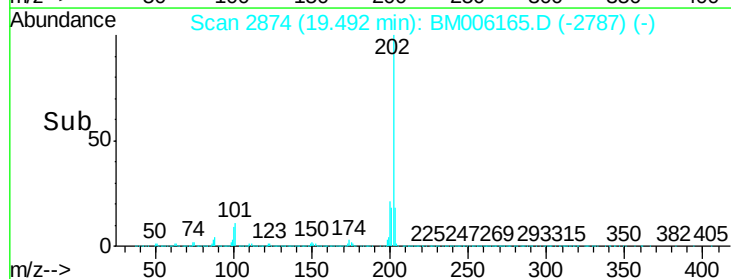
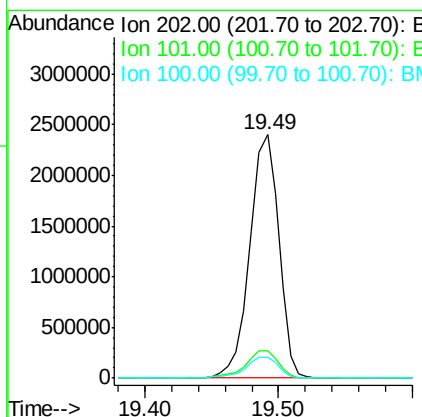
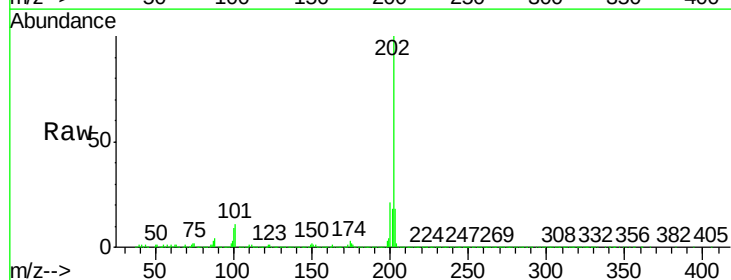
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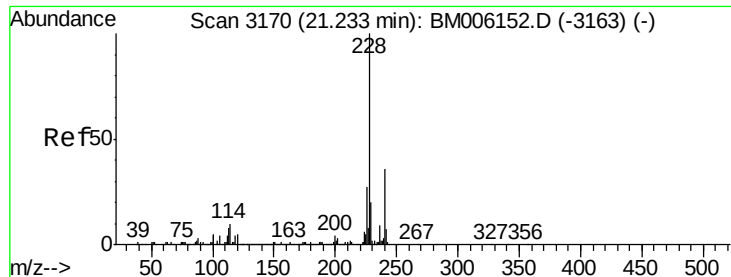
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#31
Pyrene
Concen: 78.26 ng/ul
RT: 19.49 min Scan# 2874
Delta R.T. 0.01 min
Lab File: BM006165.D
Acq: 30 Jun 2016 19:48

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
202	100		3585199		
101	11.4	11.0	16.4		
100	8.8	8.9	13.3#		





#32

Benzo(a)anthracene

Concen: 43.26 ng/ul

RT: 21.24 min Scan# 3171

Delta R.T. 0.01 min

Lab File: BM006165.D

Acq: 30 Jun 2016 19:48

Instrument :

BNA_M

ClientSampleId :

D9YF4

Tot Ion:228 Resp: 1954028

Ion Ratio Lower Upper

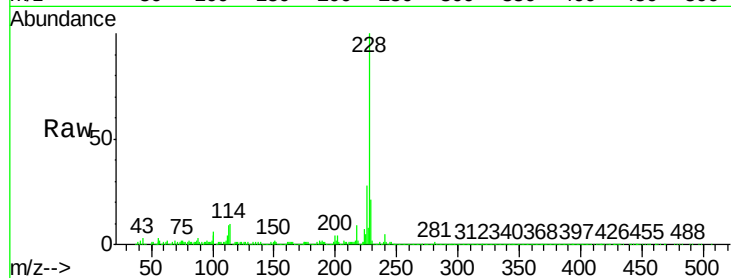
228 100

229 21.1 15.6 23.4

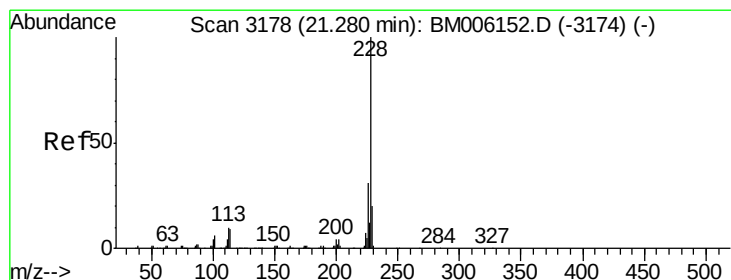
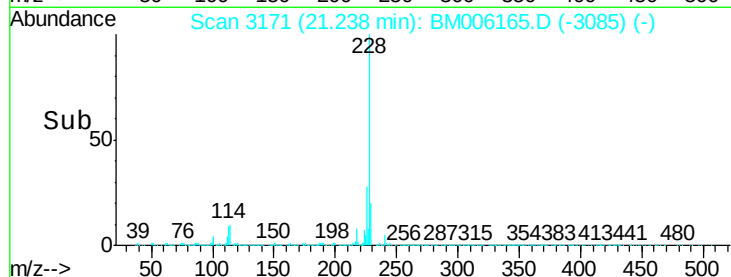
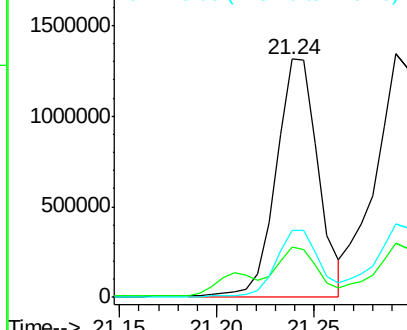
226 28.3 21.6 32.4

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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



#33

Chrysene

Concen: 48.48 ng/ul

RT: 21.29 min Scan# 3180

Delta R.T. 0.01 min

Lab File: BM006165.D

Acq: 30 Jun 2016 19:48

Tgt Ion:228 Resp: 2015952

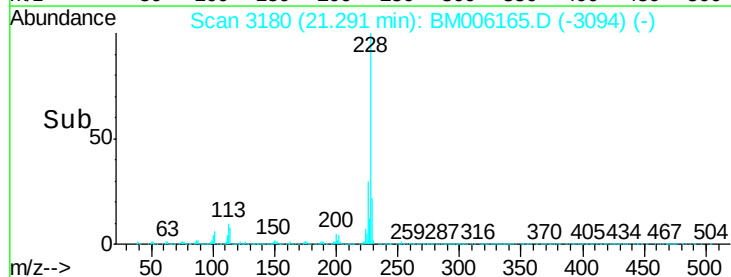
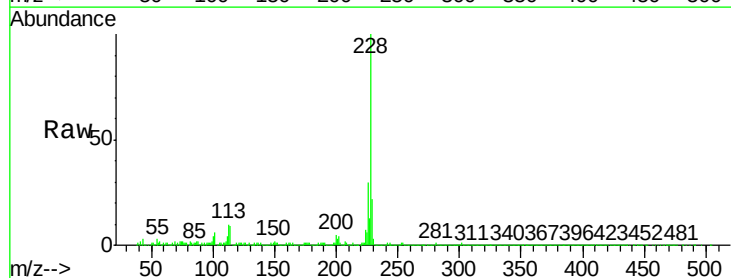
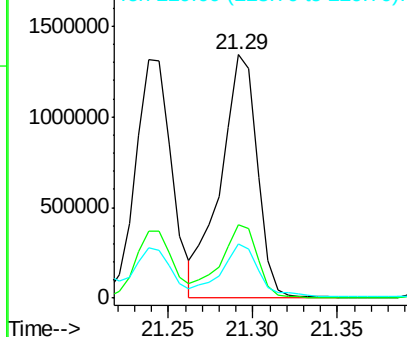
Ion Ratio Lower Upper

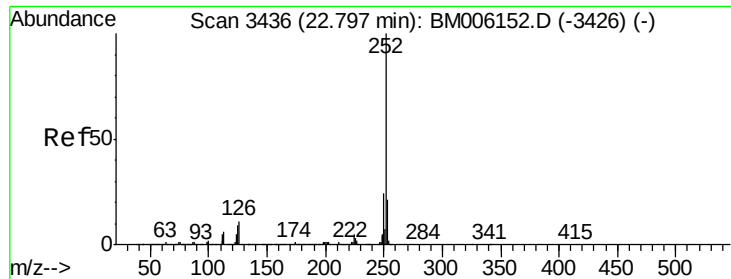
228 100

226 30.3 23.8 35.6

229 22.5 15.8 23.6

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





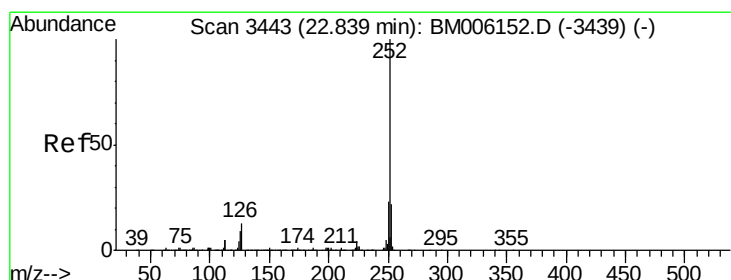
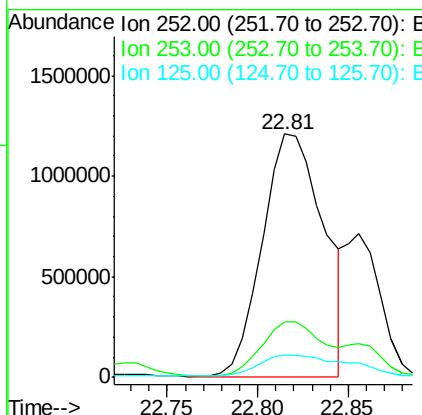
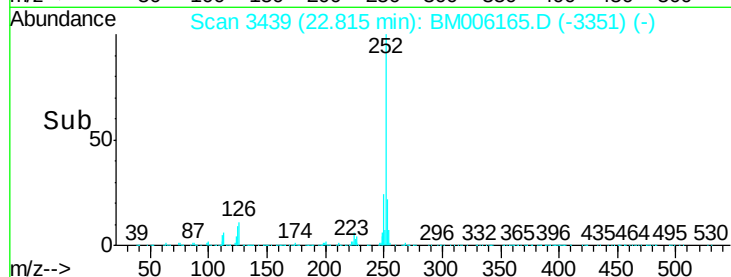
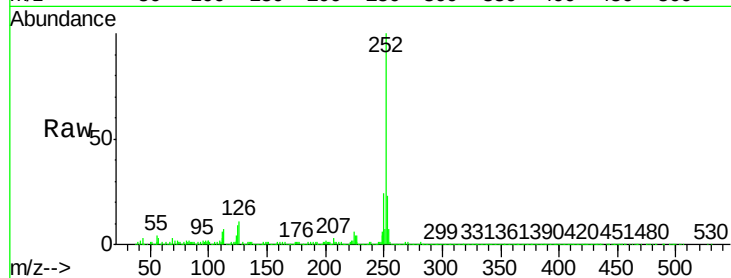
#35
Benzo(b)fluoranthene
Concen: 54.43 ng/ul
RT: 22.81 min Scan# 3439
Delta R.T. 0.02 min
Lab File: BM006165.D
Acq: 30 Jun 2016 19:48

Instrument :
BNA_M
ClientSampleId :
D9YF4

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.2	25.8
125	9.3	7.8	11.6

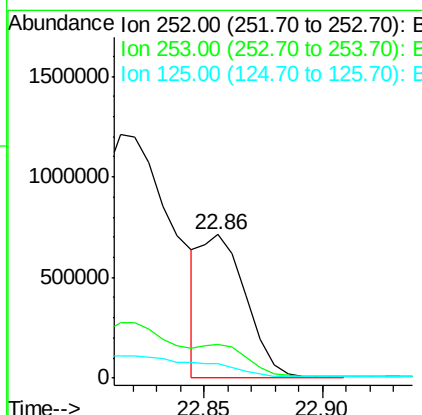
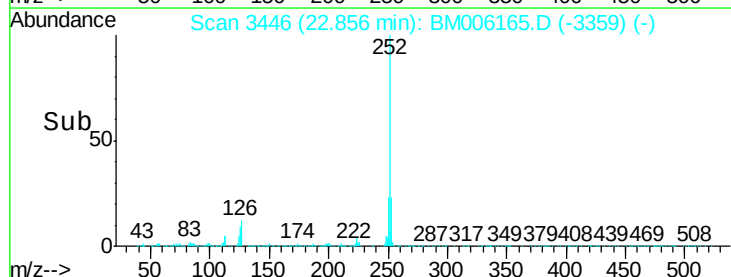
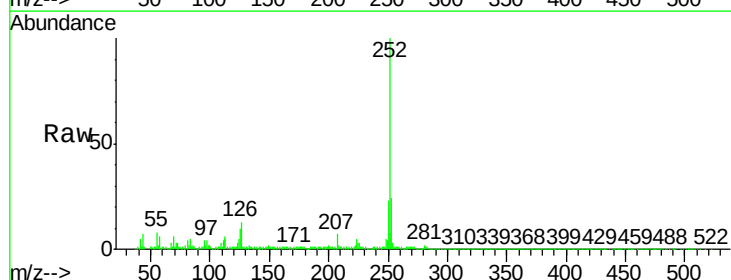
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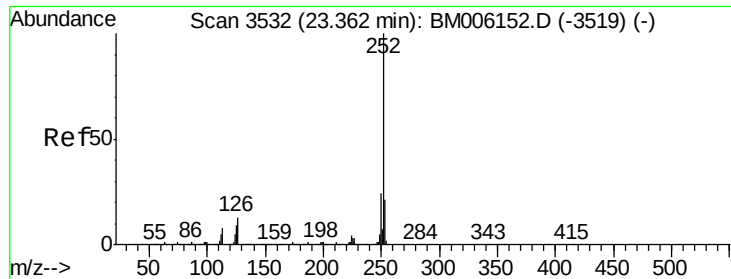
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#36
Benzo(k)fluoranthene
Concen: 19.52 ng/ul m
RT: 22.86 min Scan# 3446
Delta R.T. 0.01 min
Lab File: BM006165.D
Acq: 30 Jun 2016 19:48

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.7	17.6	26.4
125	10.0	8.1	12.1





#38

Benzo(a)pyrene

Concen: 39.04 ng/ul

RT: 23.39 min Scan# 3536

Delta R.T. 0.02 min

Lab File: BM006165.D

Acq: 30 Jun 2016 19:48

Instrument :

BNA_M

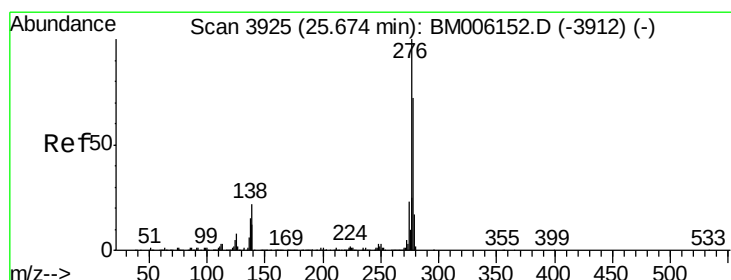
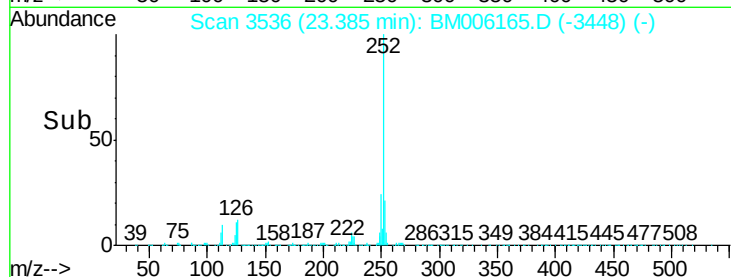
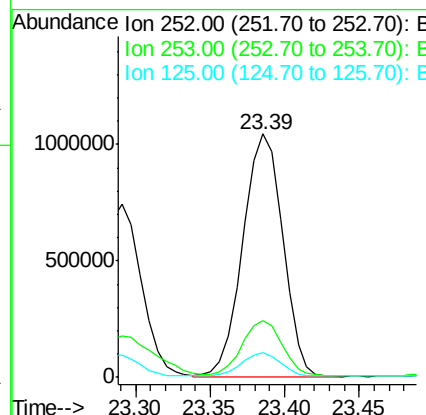
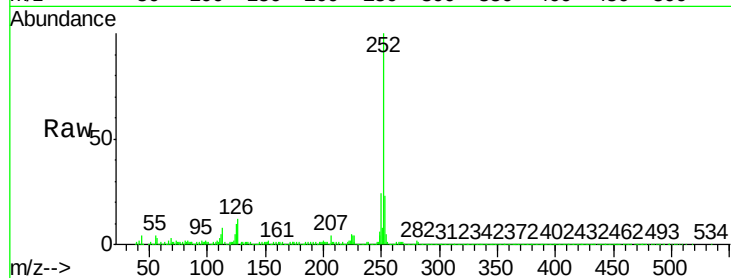
ClientSampleId :

D9YF4

Tot Ion:	252	Resp:	1929076
Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.8	26.6
125	9.9	8.7	13.1

Manual Integrations
APPROVED

sohil
7/1/2016 7:15:30 PM



#39

Indeno(1,2,3-cd)pyrene

Concen: 29.55 ng/ul

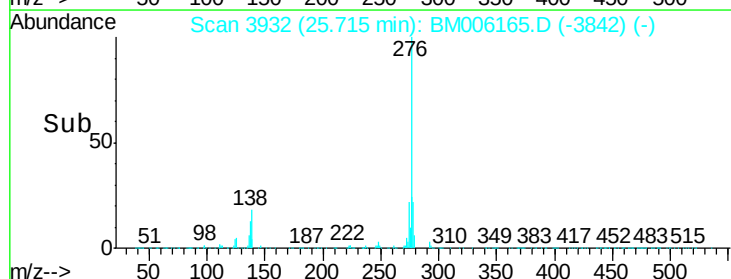
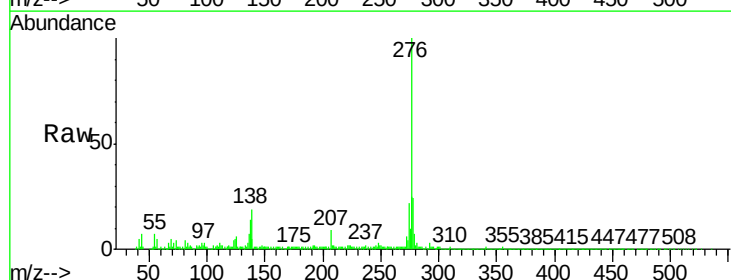
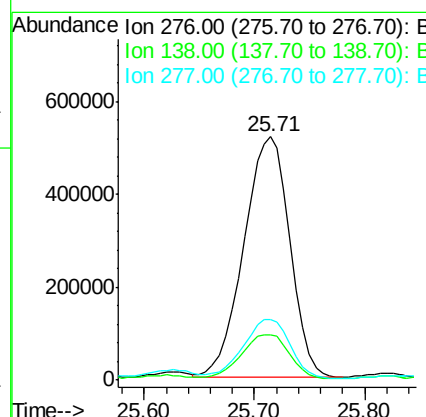
RT: 25.71 min Scan# 3932

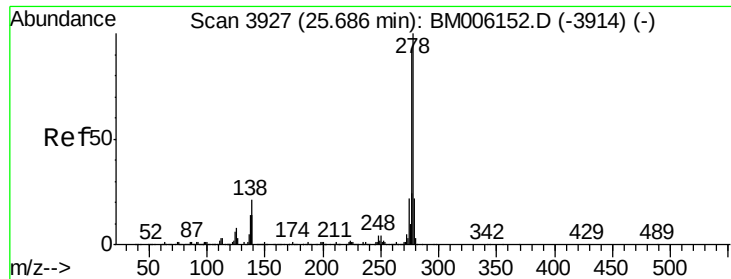
Delta R.T. 0.03 min

Lab File: BM006165.D

Acq: 30 Jun 2016 19:48

Tgt Ion:	276	Resp:	1517467
Ion	Ratio	Lower	Upper
276	100		
138	18.6	20.4	30.6#
277	24.9	20.6	30.8





#40

Dibenzo(a,h)anthracene

Concen: 9.35 ng/ul m

RT: 25.71 min Scan# 3932

Delta R.T. 0.02 min

Lab File: BM006165.D

Acq: 30 Jun 2016 19:48

Instrument :

BNA_M

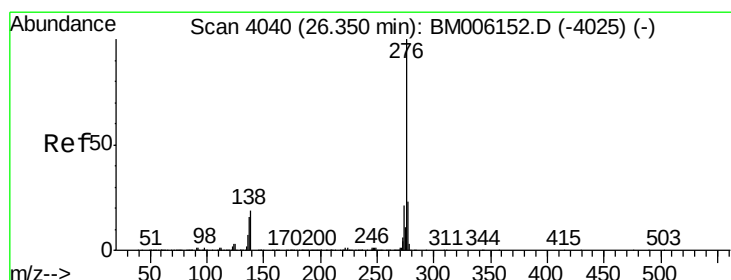
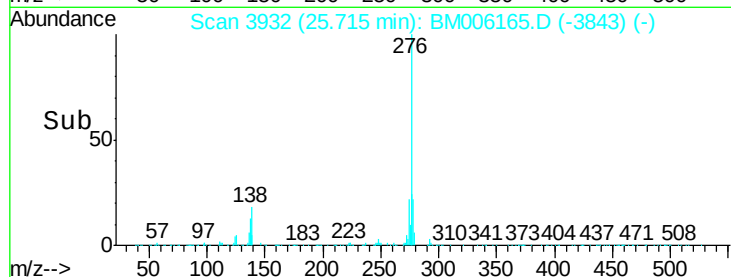
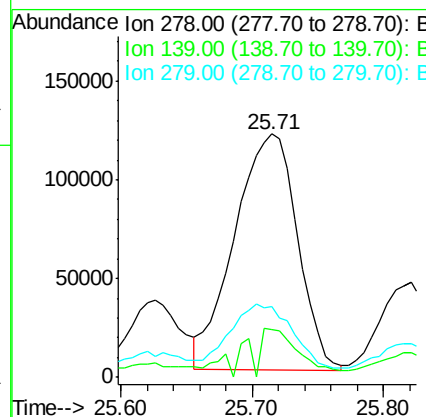
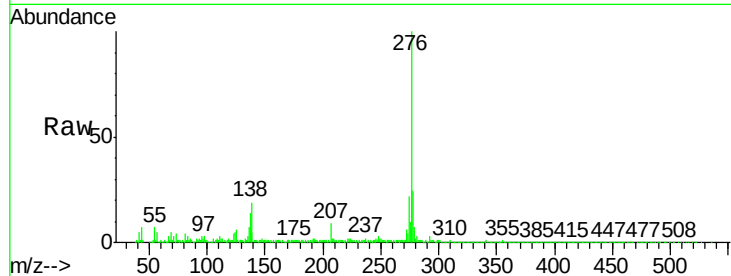
ClientSampleId :

D9YF4

Tot Ion:	278	Resp:	397416
Ion Ratio	Lower	Upper	
278	100		
139	19.8	13.0	19.4#
279	28.9	18.8	28.2#

Manual Integrations
APPROVED

sohil
7/1/2016 7:15:30 PM



#41

Benzo(g,h,i)perylene

Concen: 33.82 ng/ul

RT: 26.40 min Scan# 4049

Delta R.T. 0.05 min

Lab File: BM006165.D

Acq: 30 Jun 2016 19:48

Tgt Ion:	276	Resp:	1453882
Ion Ratio	Lower	Upper	
276	100		
138	19.1	16.6	25.0
277	24.2	18.9	28.3

