

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM090716\
 Data File : BM007455.D
 Acq On : 08 Sep 2016 00:54
 Operator : UM/SJ
 Sample : H4666-19
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BD3B3

Quant Time: Sep 08 03:14:25 2016
 Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM02.2-EPA-BM082316.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Sep 08 03:10:54 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.79	152	247743	20.00	ng/ul	0.00
18) Naphthalene-d8	10.57	136	1257847	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.43	164	841453	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.17	188	2043609	20.00	ng/ul	0.00
75) Chrysene-d12	21.35	240	2272790	20.00	ng/ul	0.00
83) Perylene-d12	23.63	264	1939581	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.31	96	10969	2.26	ng/uL	0.00
5) Phenol-d5	6.96	99	360212	15.39	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.13	67	228469	18.58	ng/ul	0.00
9) 2-Chlorophenol-d4	7.33	132	300601	17.38	ng/ul	0.00
13) 4-Methylphenol-d8	8.50	113	276539	13.55	ng/ul	0.00
19) Nitrobenzene-d5	8.95	128	177781	19.25	ng/ul	0.00
22) 2-Nitrophenol-d4	9.66	143	184114	17.07	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.20	165	351662	16.38	ng/ul	0.00
29) 4-Chloroaniline-d4	10.72	131	199034	7.43	ng/ul	0.00
43) Dimethylphthalate-d6	13.83	166	1278366	17.61	ng/ul	0.00
46) Acenaphthylene-d8	14.12	160	1686211	20.04	ng/ul	0.00
51) 4-Nitrophenol-d4	14.64	143	33985	2.48	ng/ul	0.00
57) Fluorene-d10	15.42	176	1241213	19.77	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.54	200	75022	5.84	ng/ul	0.00
70) Anthracene-d10	17.27	188	2005823	21.01	ng/ul	0.00
76) Pyrene-d10	19.56	212	2391993	25.17	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.48	264	1852817	20.74	ng/ul	0.00

Target Compounds

					Qvalue
4) Benzaldehyde	6.95	77	18637	1.40 ng/ul#	73
6) Phenol	6.99	94	29095	1.20 ng/ul	95
14) Acetophenone	8.61	105	31889	1.02 ng/ul	91
28) Naphthalene	10.63	128	406798	6.50 ng/ul	99
30) 4-Chloroaniline	10.63	127	54126	1.96 ng/ul#	21
34) 2-Methylnaphthalene	12.24	142	323949	6.33 ng/ul	99
40) 1,1'-Biphenyl	13.26	154	111829	1.71 ng/ul	97
44) Dimethylphthalate	13.88	163	672559	9.30 ng/ul	100
47) Acenaphthylene	14.15	152	106596	1.23 ng/ul#	95
53) Dibenzofuran	14.82	168	499113	5.92 ng/ul	94
69) Phenanthrene	17.21	178	1992526	18.16 ng/ul	100
71) Anthracene	17.30	178	306484	2.71 ng/ul	99
72) Carbazole	17.57	167	174732	1.78 ng/ul#	95
74) Fluoranthene	19.23	202	2998131	21.78 ng/ul	100
77) Pyrene	19.59	202	1940351	15.91 ng/ul	99
80) Benzo(a)anthracene	21.34	228	1277524	9.53 ng/ul	95
81) Bis(2-ethylhexyl)phthalate	21.26	149	103805	1.41 ng/ul#	95
82) Chrysene	21.39	228	1662319	13.70 ng/ul	96
85) Benzo(b)fluoranthene	22.94	252	3217324	28.05 ng/ul	98
86) Benzo(k)fluoranthene	22.94	252	3217324	30.35 ng/ul	99
88) Benzo(a)pyrene	23.53	252	528559	4.82 ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	25.91	276	483008	3.59 ng/ul	100
90) Dibenzo(a,h)anthracene	25.91	278	181420	1.62 ng/ul#	89

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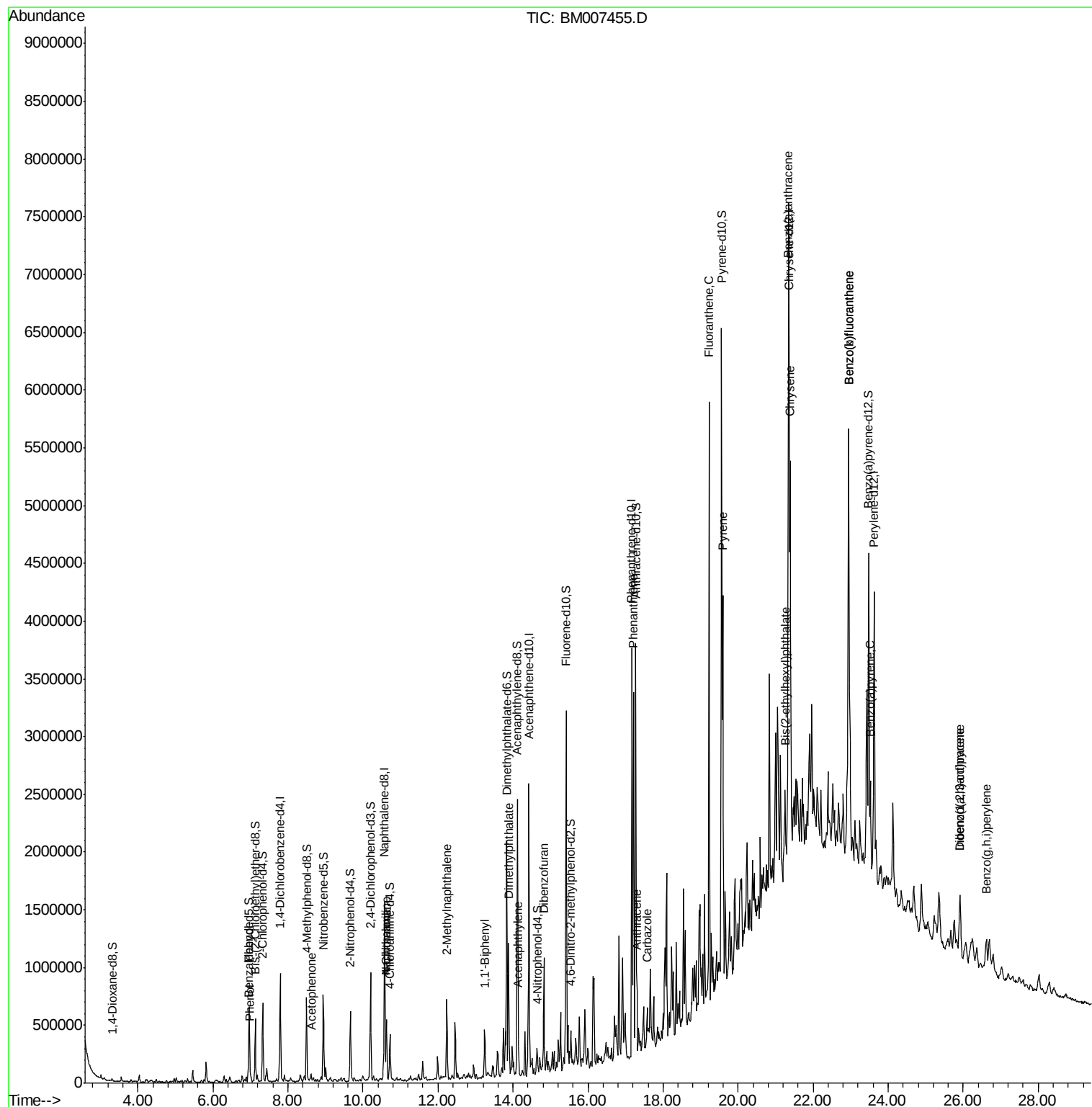
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
91) Benzo(g,h,i)perylene	26.62	276	330455	2.89	ng/ul	99

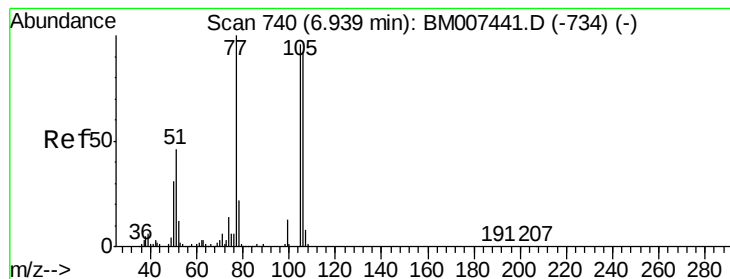
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#4

Benzaldehyde

Concen: 1.40 ng/ul

RT: 6.95 min Scan# 741

Delta R.T. 0.01 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampled :

BD3B3

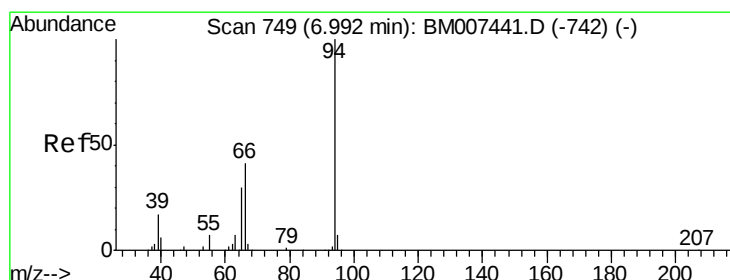
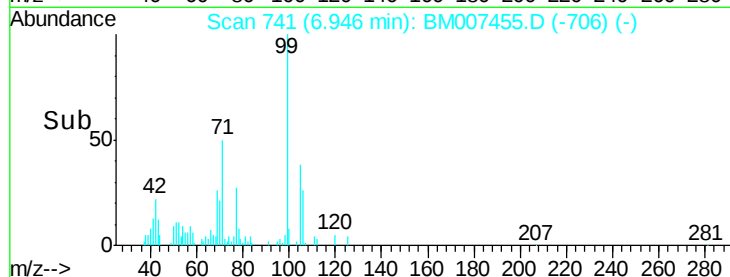
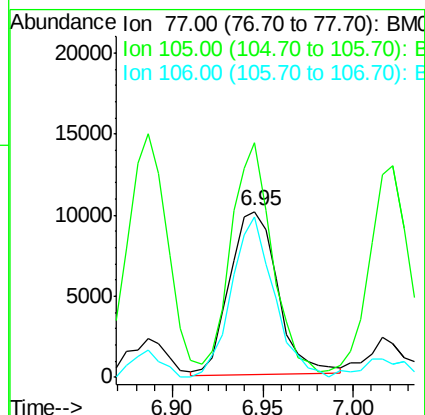
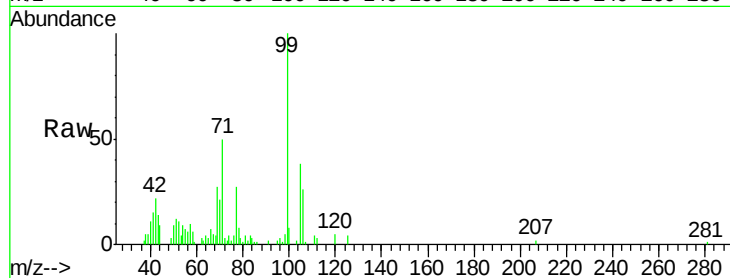
Tgt Ion: 77 Resp: 18637

Ion Ratio Lower Upper

77 100

105 141.5 76.9 115.3#

106 96.6 71.8 107.8



#6

Phenol

Concen: 1.20 ng/ul

RT: 6.99 min Scan# 749

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

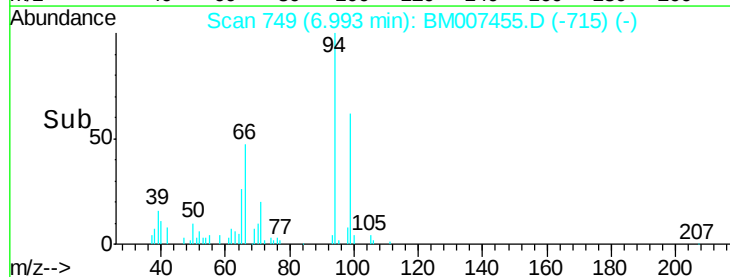
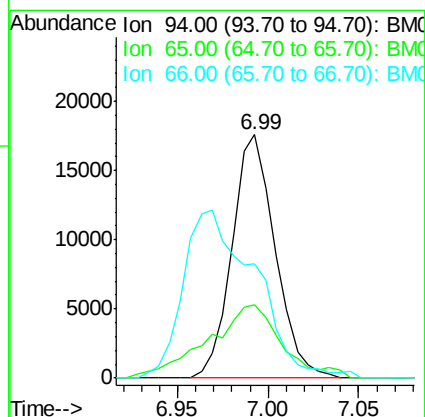
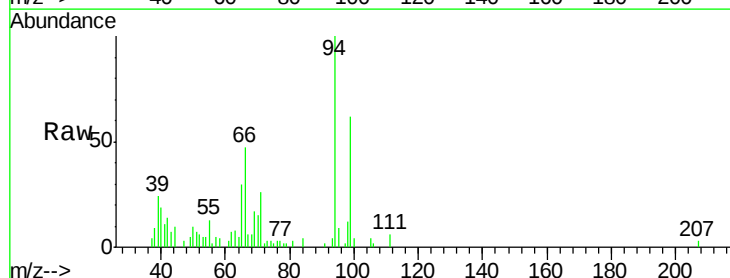
Tgt Ion: 94 Resp: 29095

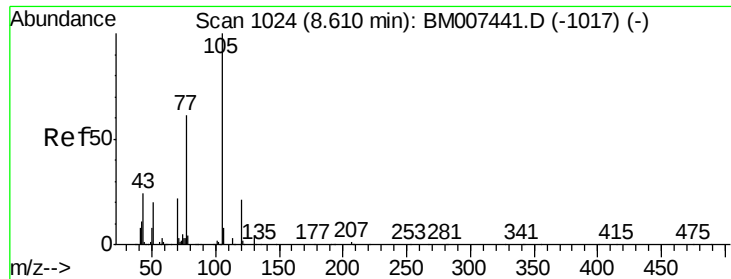
Ion Ratio Lower Upper

94 100

65 29.9 23.9 35.9

66 47.0 33.5 50.3





#14

Acetophenone

Concen: 1.02 ng/ul

RT: 8.61 min Scan# 1024

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampleId :

BD3B3

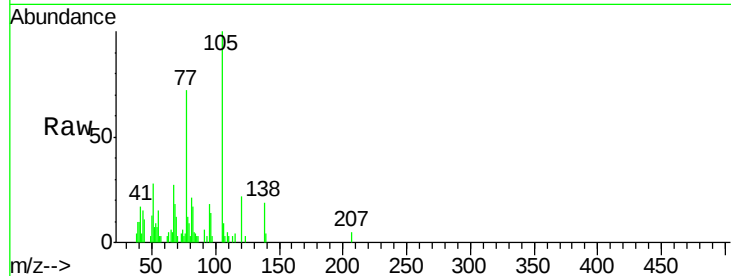
Tgt Ion:105 Resp: 31889

Ion Ratio Lower Upper

105 100

77 71.8 65.9 98.9

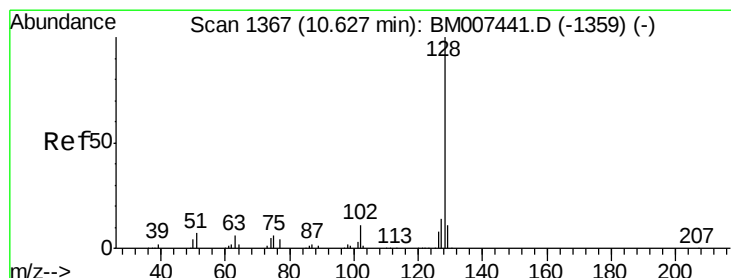
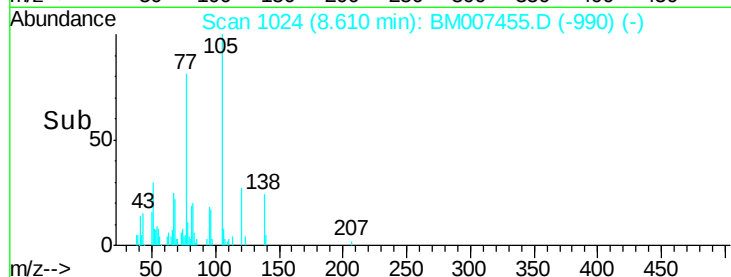
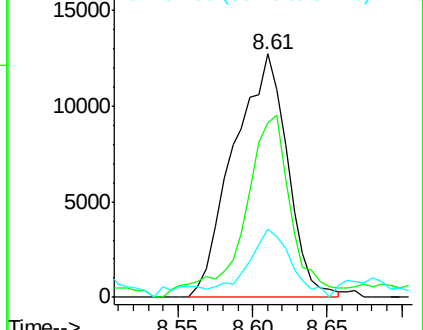
51 27.9 22.2 33.2



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0



#28

Naphthalene

Concen: 6.50 ng/ul

RT: 10.63 min Scan# 1367

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

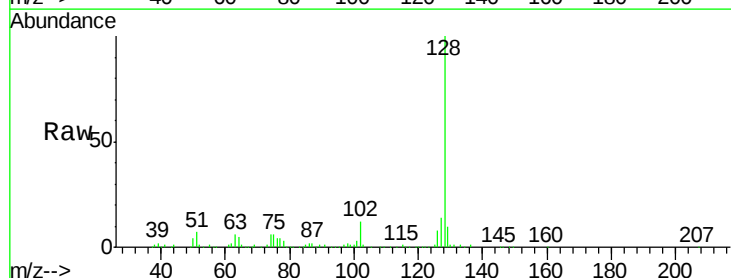
Tgt Ion:128 Resp: 406798

Ion Ratio Lower Upper

128 100

129 10.4 8.6 12.8

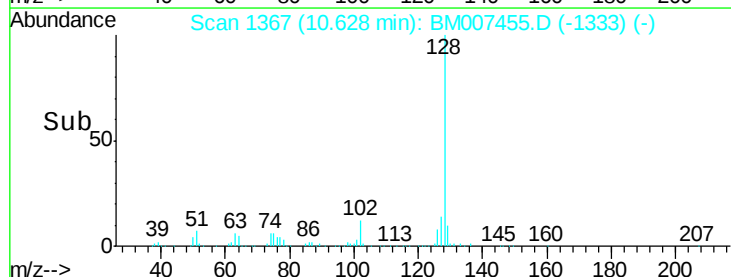
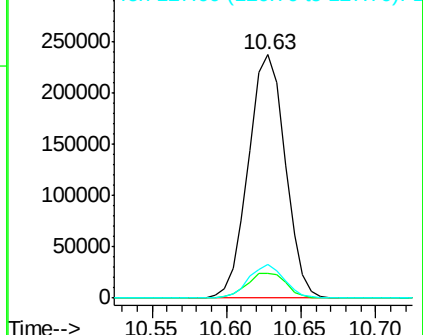
127 14.0 10.6 15.8

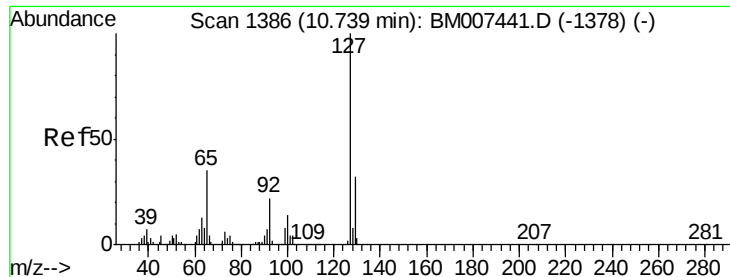


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

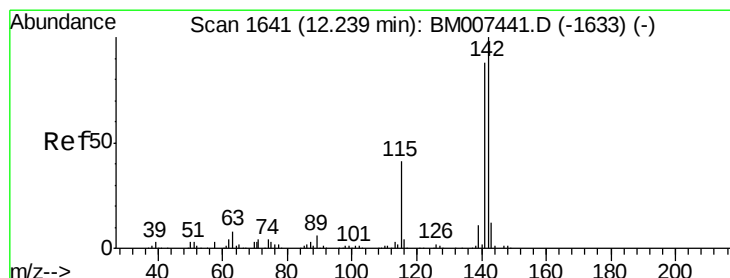
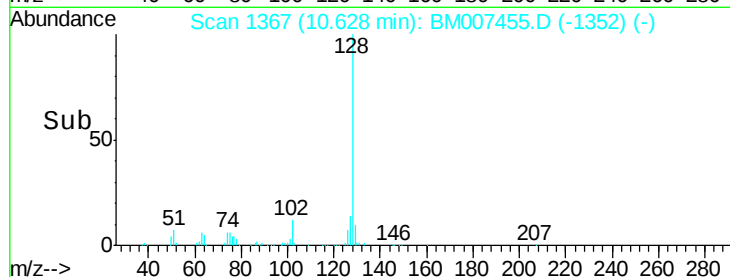
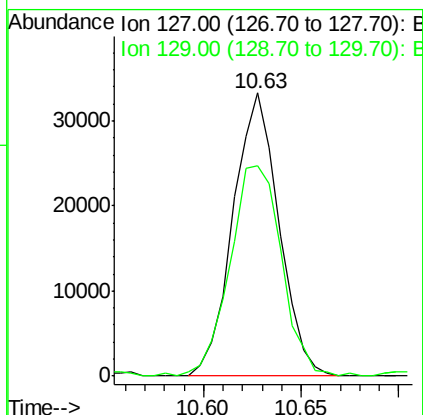
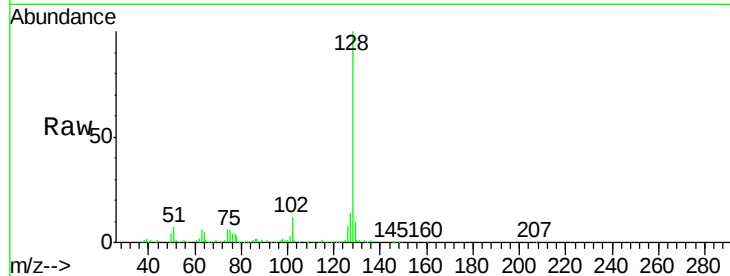




#30
 4-Chloroaniline
 Concen: 1.96 ng/ul
 RT: 10.63 min Scan# 1367
 Delta R.T. -0.11 min
 Lab File: BM007455.D
 Acq: 08 Sep 2016 00:54

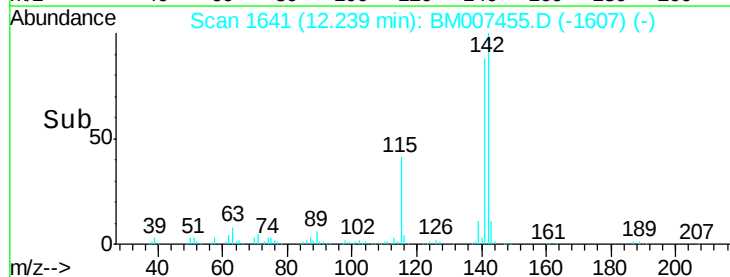
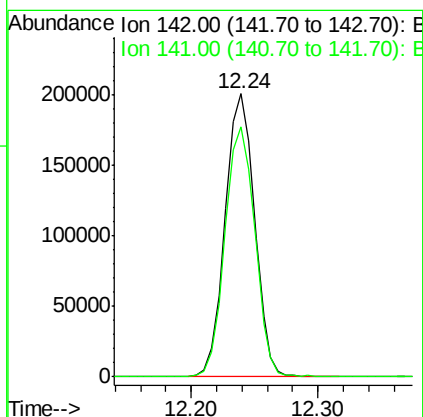
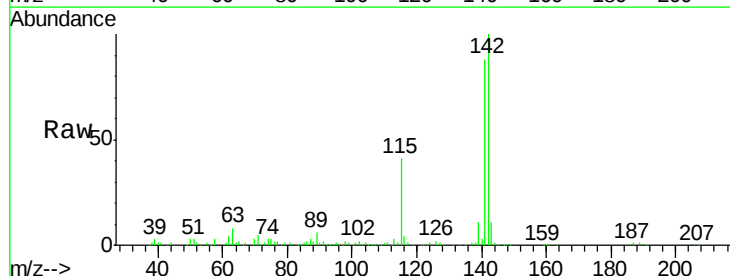
Instrument :
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 ClientSampleId :
 BD3B3

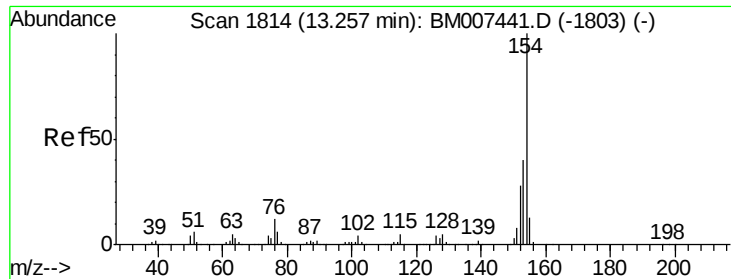
Tgt Ion:127 Resp: 54126
 Ion Ratio Lower Upper
 127 100
 129 74.2 24.6 37.0#



#34
 2-Methylnaphthalene
 Concen: 6.33 ng/ul
 RT: 12.24 min Scan# 1641
 Delta R.T. 0.00 min
 Lab File: BM007455.D
 Acq: 08 Sep 2016 00:54

Tgt Ion:142 Resp: 323949
 Ion Ratio Lower Upper
 142 100
 141 88.3 71.3 106.9

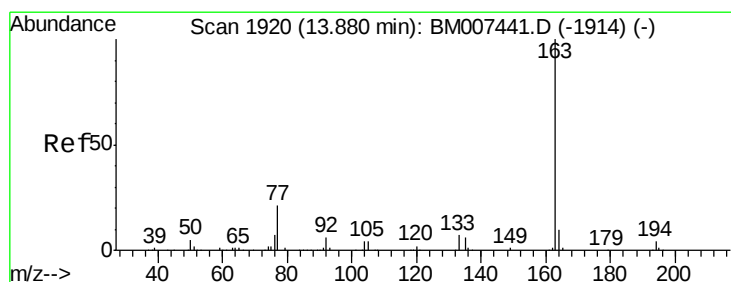
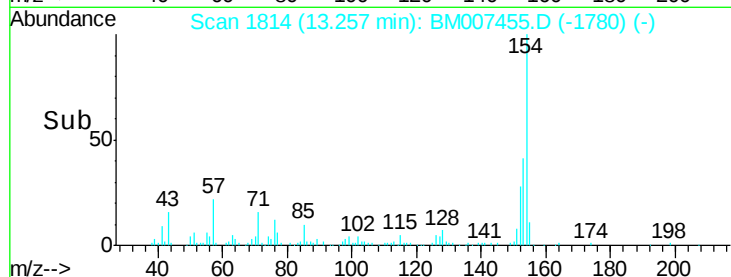
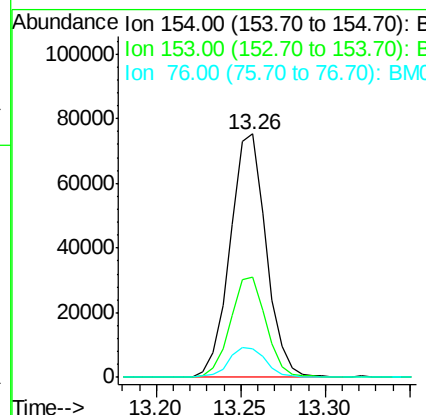
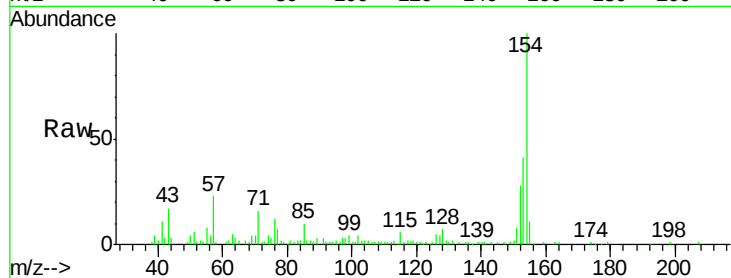




#40
1,1'-Biphenyl
Concen: 1.71 ng/ul
RT: 13.26 min Scan# 1814
Delta R.T. 0.00 min
Lab File: BM007455.D
Acq: 08 Sep 2016 00:54

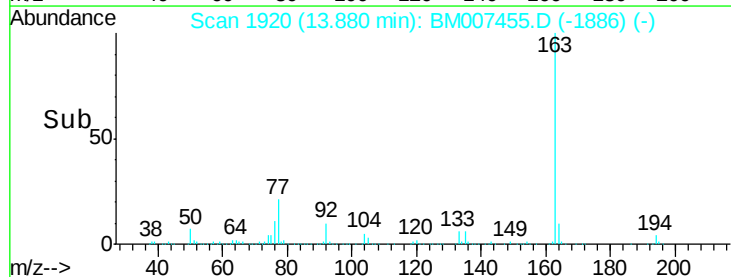
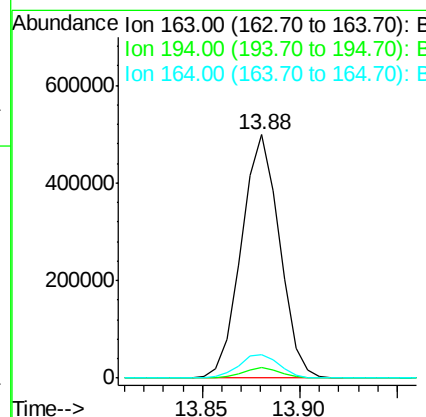
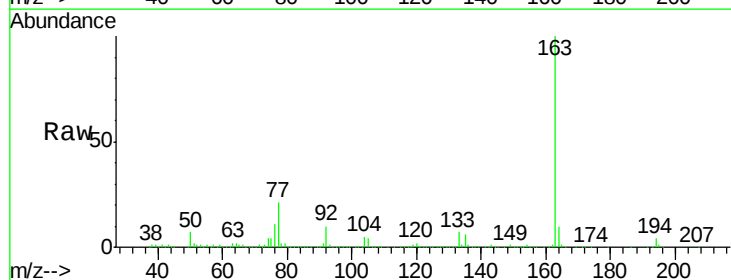
Instrument :
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ClientSampleId :
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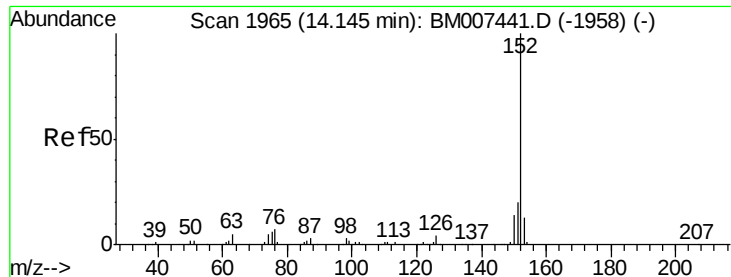
Tgt Ion:154 Resp: 111829
Ion Ratio Lower Upper
154 100
153 41.1 31.3 46.9
76 11.7 10.0 15.0



#44
Dimethylphthalate
Concen: 9.30 ng/ul
RT: 13.88 min Scan# 1920
Delta R.T. 0.00 min
Lab File: BM007455.D
Acq: 08 Sep 2016 00:54

Tgt Ion:163 Resp: 672559
Ion Ratio Lower Upper
163 100
194 4.5 3.4 5.2
164 9.7 7.8 11.8

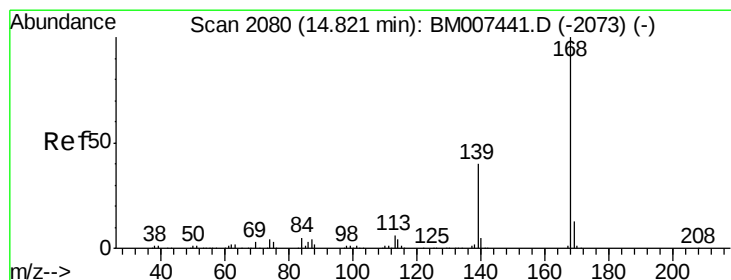
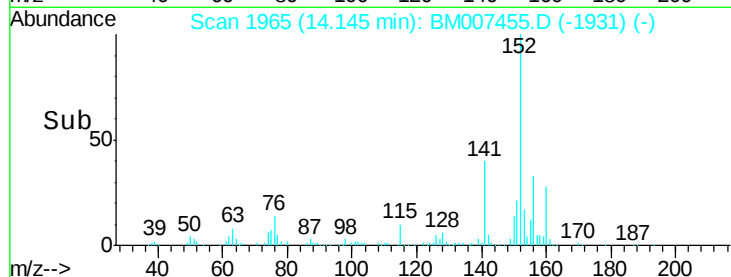
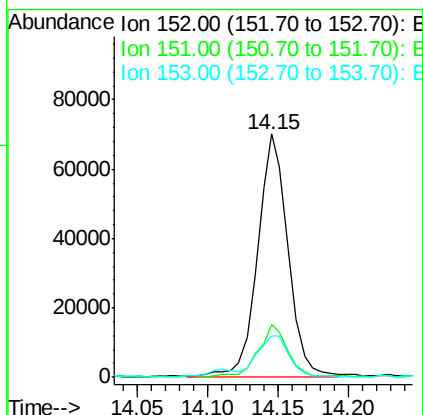
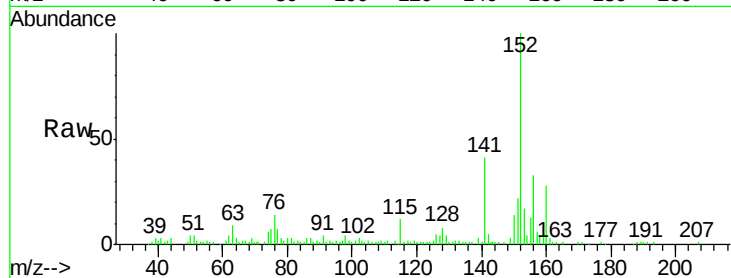




#47
Acenaphthylene
Concen: 1.23 ng/ul
RT: 14.15 min Scan# 1965
Delta R.T. 0.00 min
Lab File: BM007455.D
Acq: 08 Sep 2016 00:54

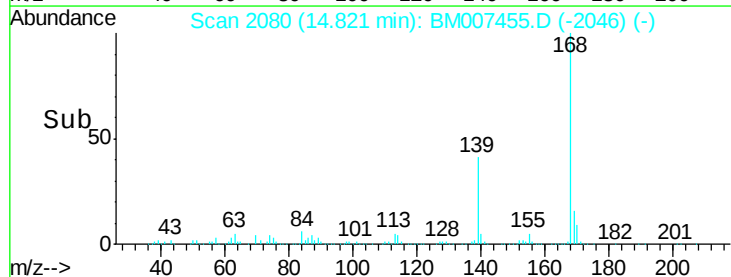
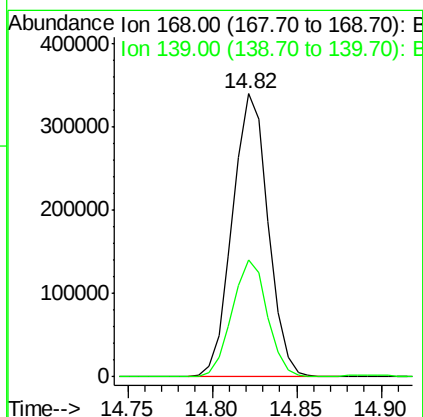
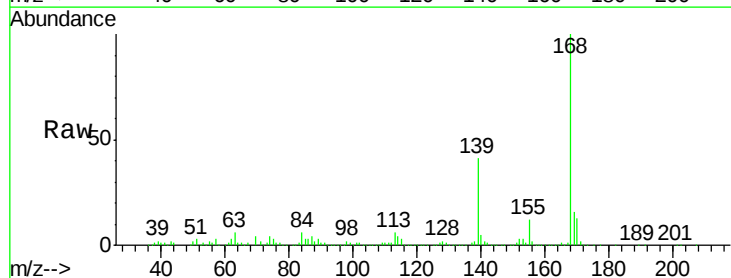
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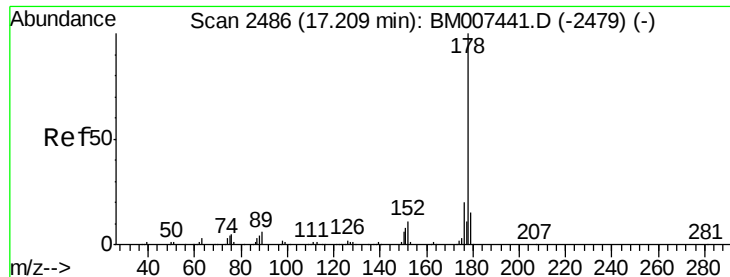
Tgt Ion:152 Resp: 106596
Ion Ratio Lower Upper
152 100
151 21.5 16.0 24.0
153 17.2 11.0 16.6#



#53
Dibenzofuran
Concen: 5.92 ng/ul
RT: 14.82 min Scan# 2080
Delta R.T. 0.00 min
Lab File: BM007455.D
Acq: 08 Sep 2016 00:54

Tgt Ion:168 Resp: 499113
Ion Ratio Lower Upper
168 100
139 41.3 30.1 45.1





#69

Phenanthrene

Concen: 18.16 ng/ul

RT: 17.21 min Scan# 2486

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampleId :

BD3B3

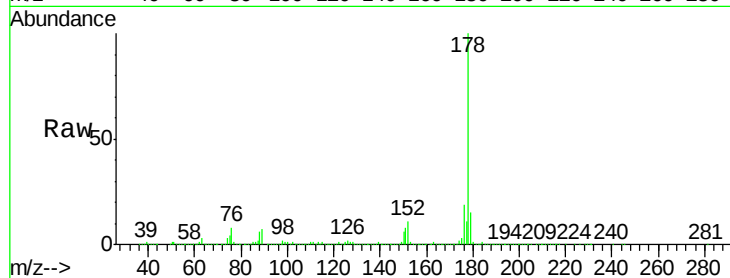
Tgt Ion:178 Resp: 1992526

Ion Ratio Lower Upper

178 100

179 15.3 12.2 18.2

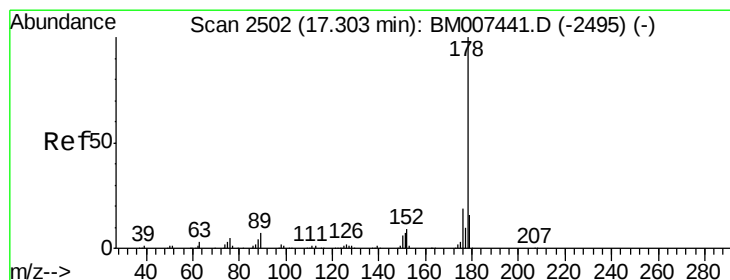
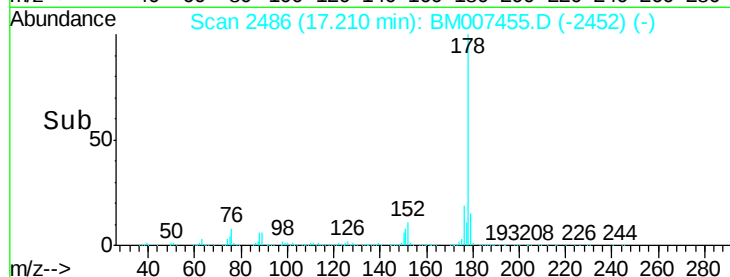
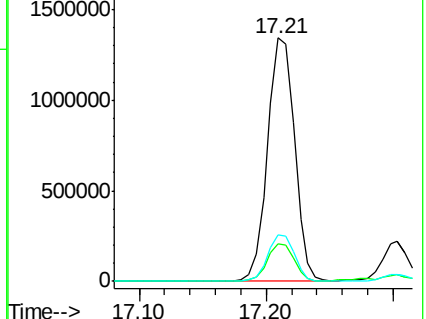
176 19.1 15.1 22.7



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: 2.71 ng/ul

RT: 17.30 min Scan# 2502

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

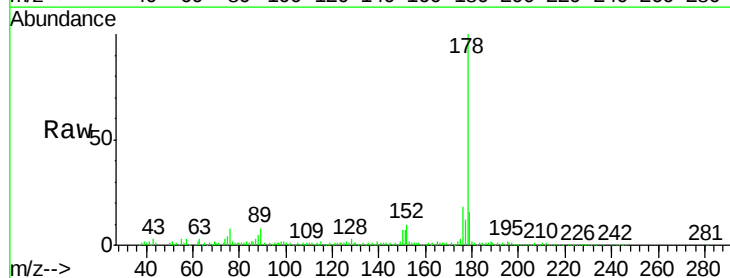
Tgt Ion:178 Resp: 306484

Ion Ratio Lower Upper

178 100

179 15.8 12.1 18.1

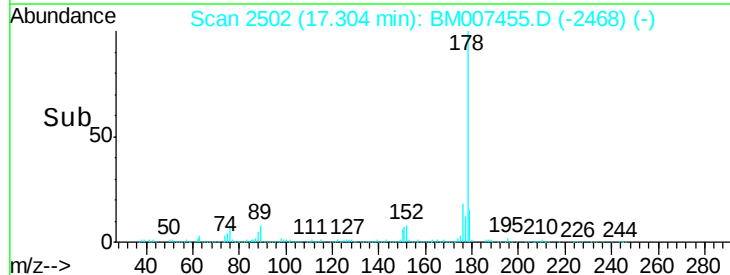
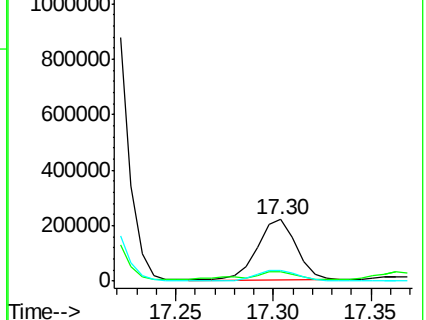
176 18.1 14.5 21.7

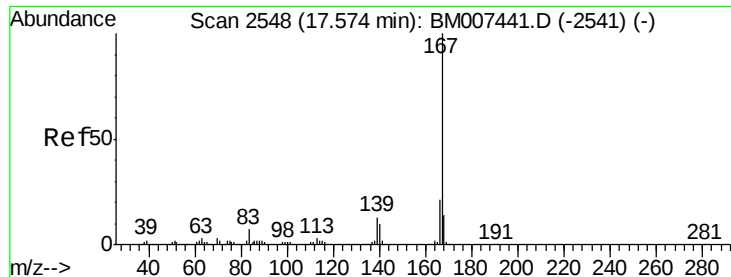


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 1.78 ng/ul

RT: 17.57 min Scan# 2548

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampleId :

BD3B3

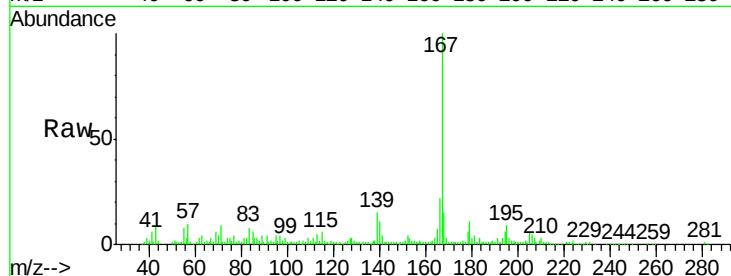
Tgt Ion:167 Resp: 174732

Ion Ratio Lower Upper

167 100

166 22.4 16.6 25.0

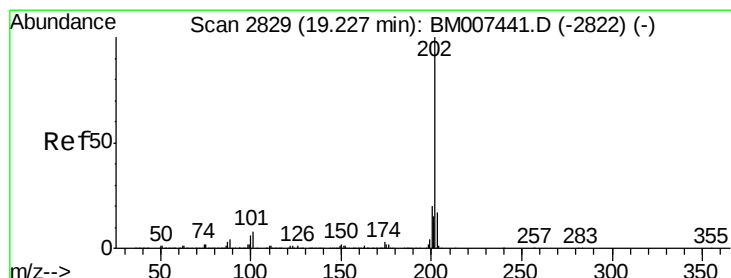
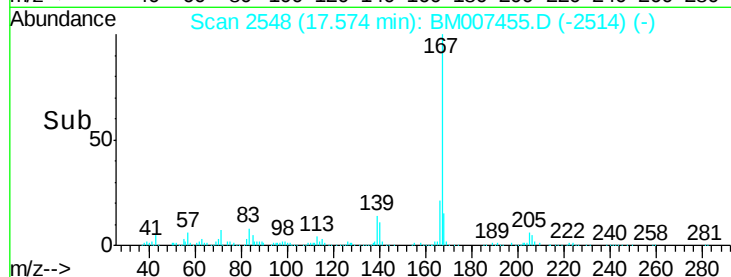
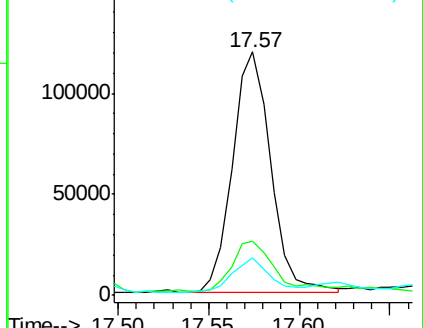
139 15.4 10.2 15.4#



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



#74

Fluoranthene

Concen: 21.78 ng/ul

RT: 19.23 min Scan# 2829

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

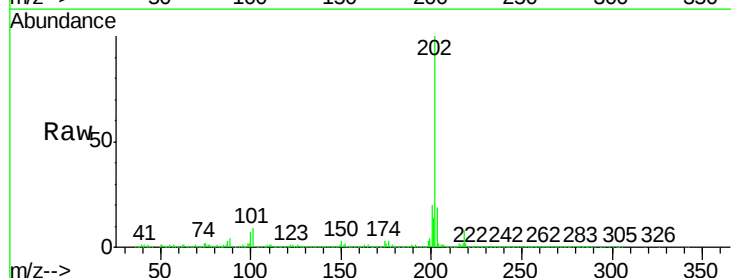
Tgt Ion:202 Resp: 2998131

Ion Ratio Lower Upper

202 100

101 8.6 6.9 10.3

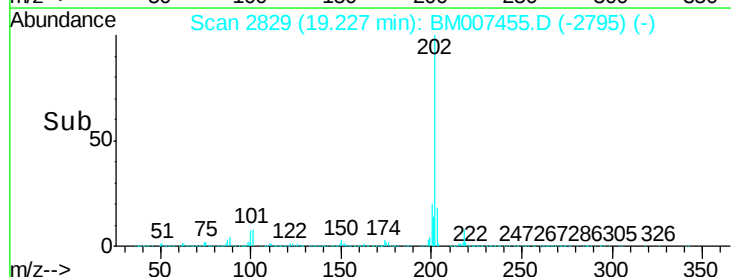
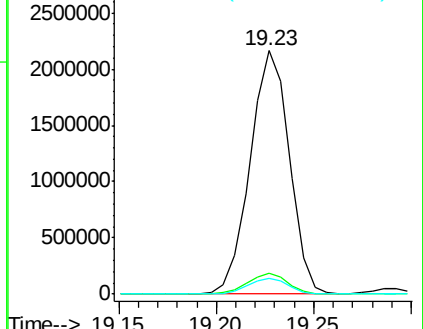
100 6.7 5.4 8.0

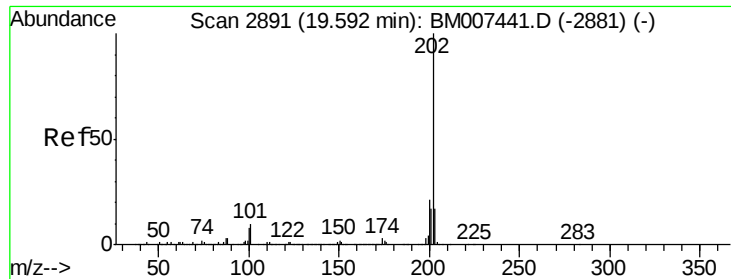


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#77

Pyrene

Concen: 15.91 ng/ul

RT: 19.59 min Scan# 2891

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampleId :

BD3B3

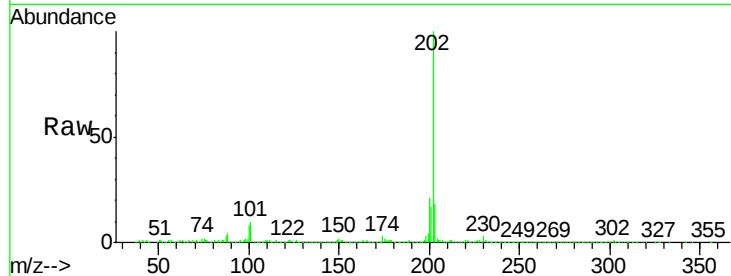
Tgt Ion:202 Resp: 1940351

Ion Ratio Lower Upper

202 100

101 10.2 8.4 12.6

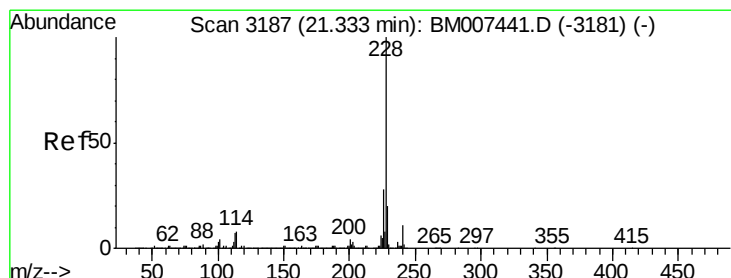
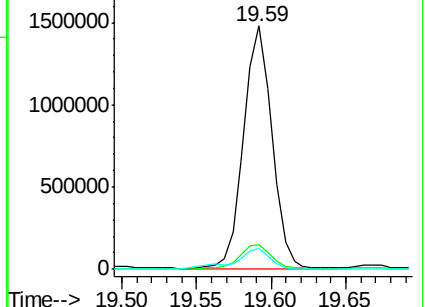
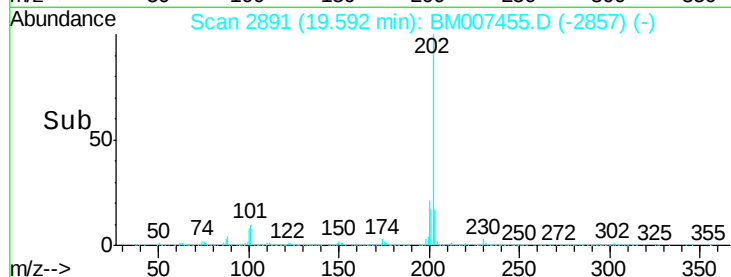
100 8.5 6.9 10.3



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): E



#80

Benzo(a)anthracene

Concen: 9.53 ng/ul

RT: 21.34 min Scan# 3188

Delta R.T. 0.01 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

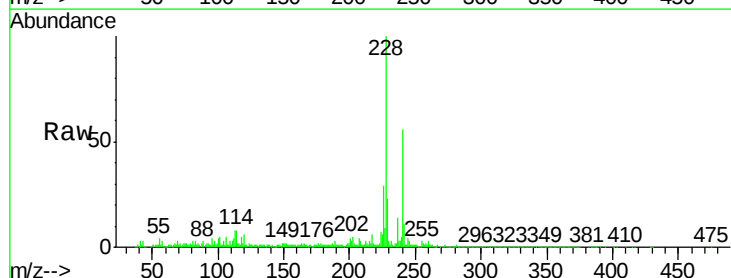
Tgt Ion:228 Resp: 1277524

Ion Ratio Lower Upper

228 100

229 23.0 15.6 23.4

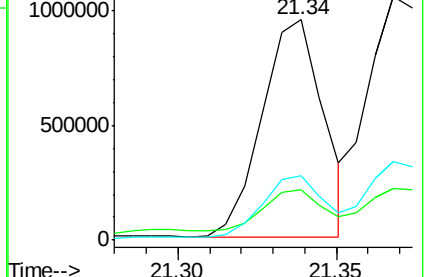
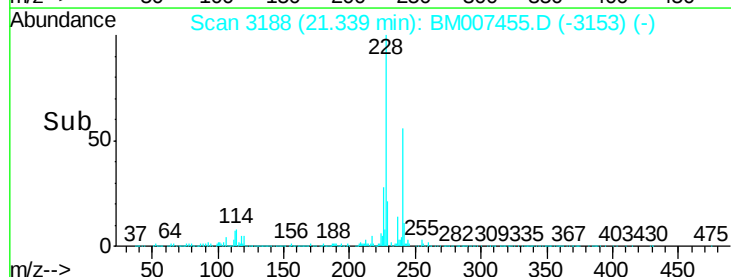
226 29.3 21.8 32.8

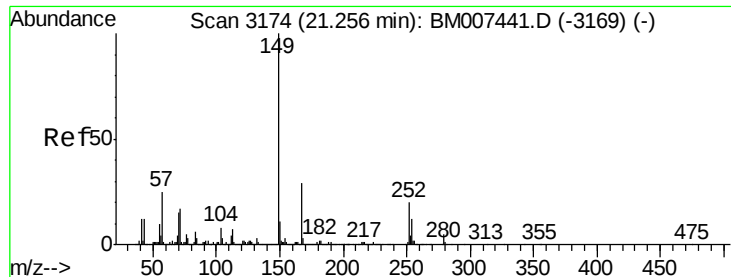


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#81

Bis(2-ethylhexyl)phthalate

Concen: 1.41 ng/ul

RT: 21.26 min Scan# 3174

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampleId :

BD3B3

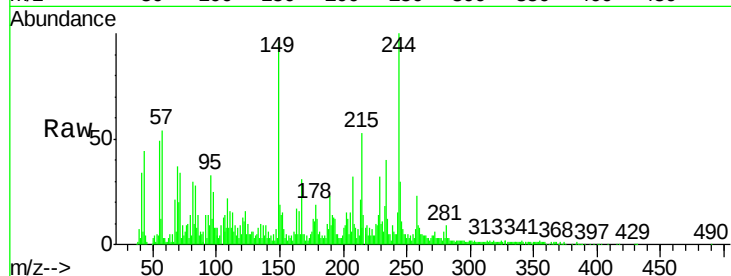
Tgt Ion:149 Resp: 103805

Ion Ratio Lower Upper

149 100

167 31.8 23.2 34.8

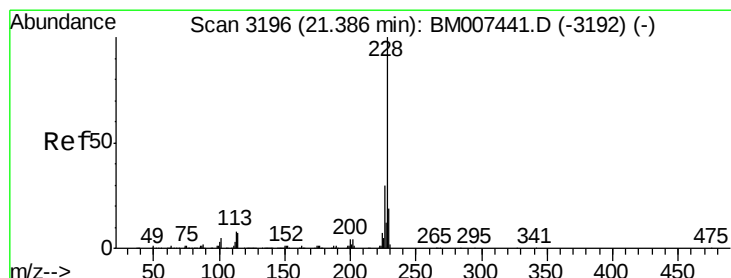
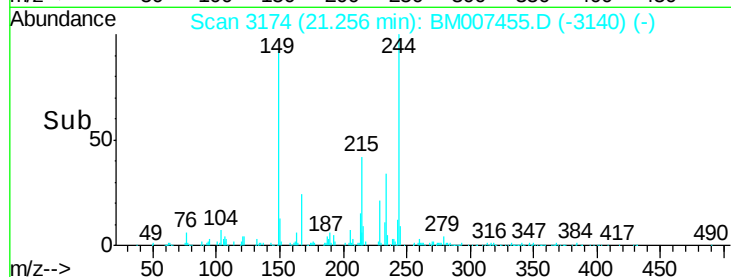
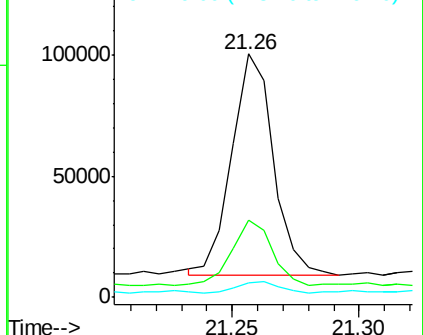
279 6.2 4.1 6.1#



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E



#82

Chrysene

Concen: 13.70 ng/ul

RT: 21.39 min Scan# 3196

Delta R.T. 0.00 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

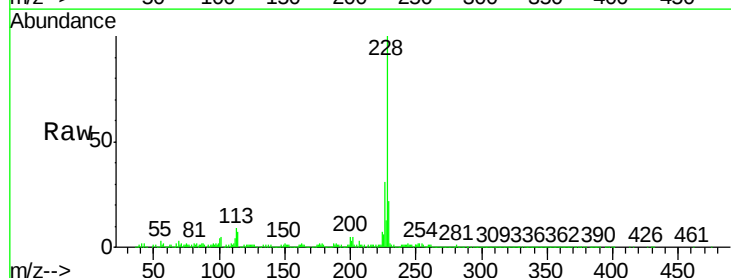
Tgt Ion:228 Resp: 1662319

Ion Ratio Lower Upper

228 100

226 31.1 23.4 35.2

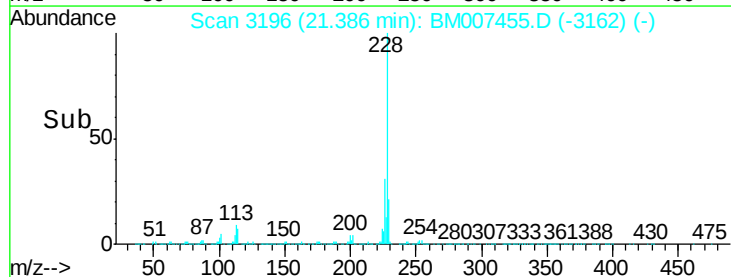
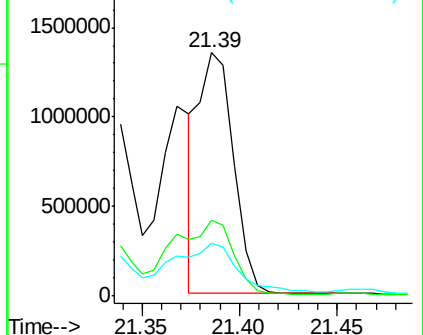
229 21.6 15.5 23.3

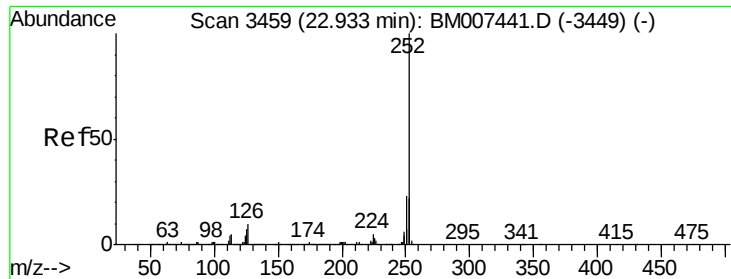


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#85

Benzo(b)fluoranthene

Concen: 28.05 ng/ul

RT: 22.94 min Scan# 3461

Delta R.T. 0.01 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampleId :

BD3B3

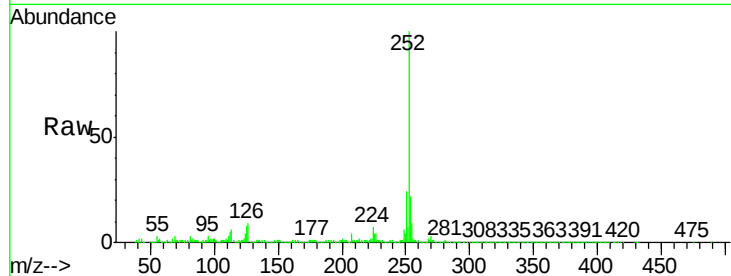
Tgt Ion:252 Resp: 3217324

Ion Ratio Lower Upper

252 100

253 22.5 17.1 25.7

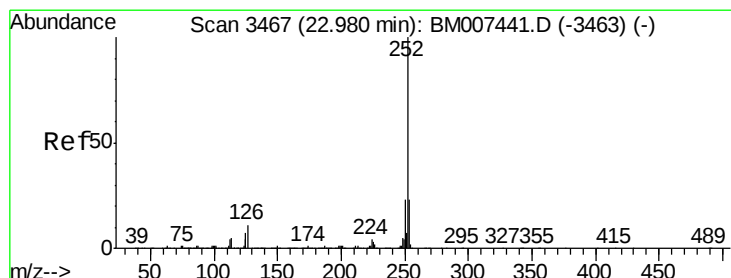
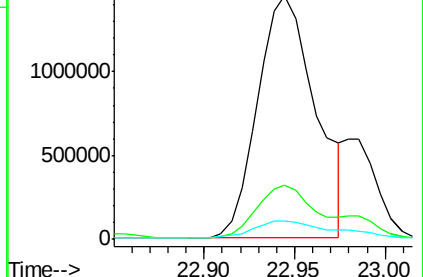
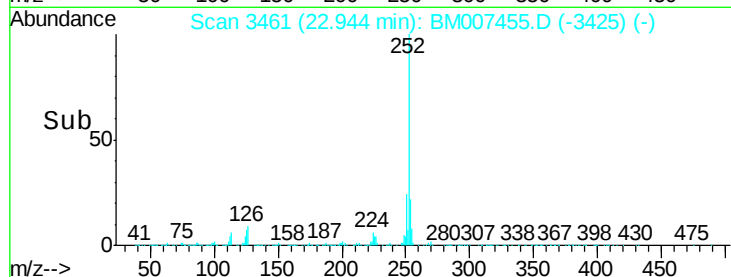
125 7.7 5.8 8.8



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



#86

Benzo(k)fluoranthene

Concen: 30.35 ng/ul

RT: 22.94 min Scan# 3461

Delta R.T. -0.04 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

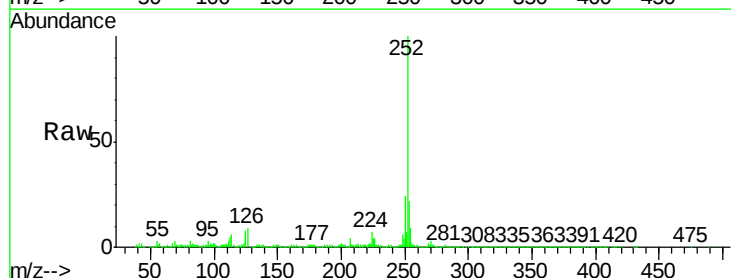
Tgt Ion:252 Resp: 3217324

Ion Ratio Lower Upper

252 100

253 22.5 17.6 26.4

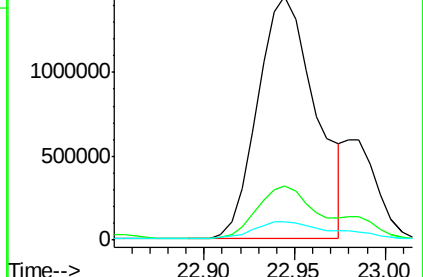
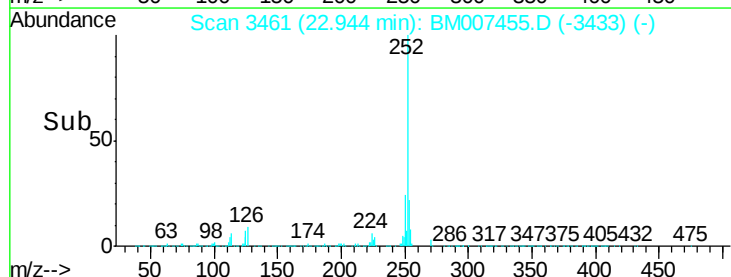
125 7.7 5.7 8.5

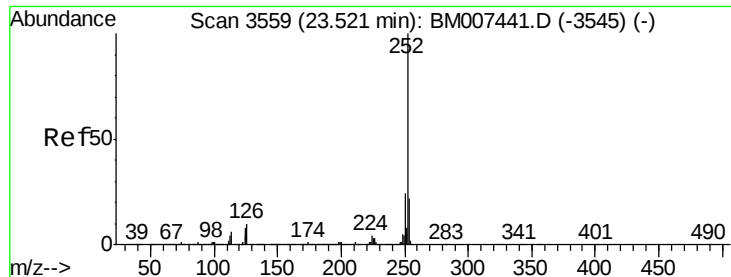


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 4.82 ng/ul

RT: 23.53 min Scan# 3560

Delta R.T. 0.01 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampleId :

BD3B3

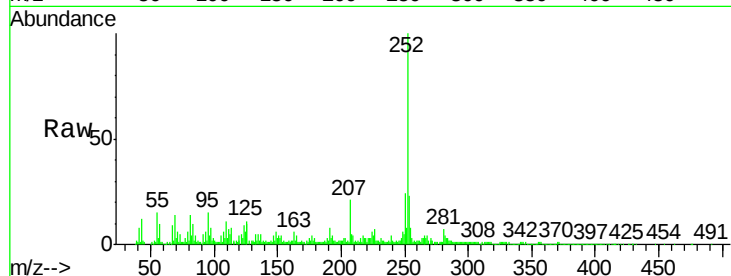
Tgt Ion:252 Resp: 528559

Ion Ratio Lower Upper

252 100

253 23.2 17.7 26.5

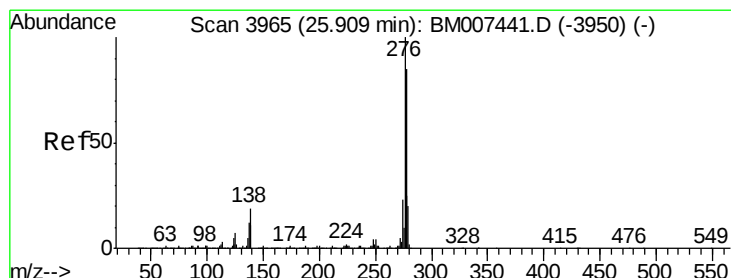
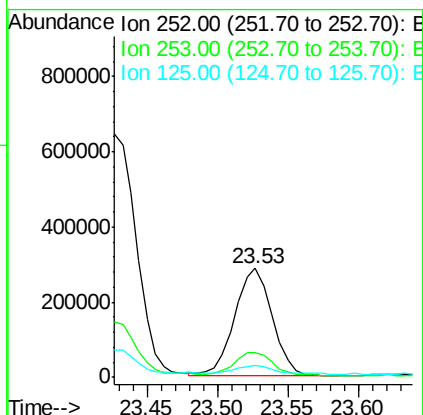
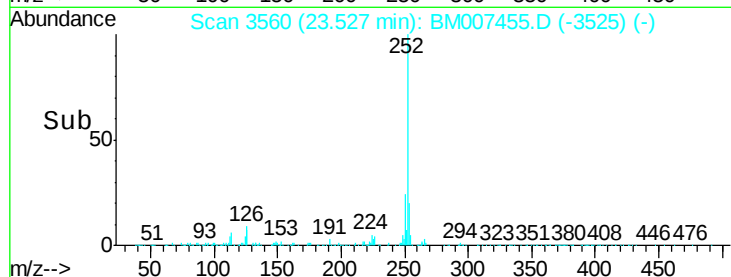
125 10.7 6.6 9.8#



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



#89

Indeno(1,2,3-cd)pyrene

Concen: 3.59 ng/ul

RT: 25.91 min Scan# 3966

Delta R.T. 0.01 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

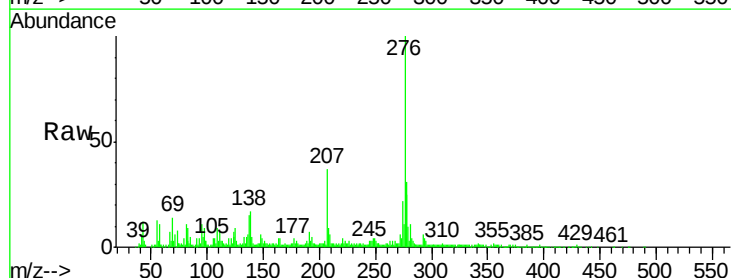
Tgt Ion:276 Resp: 483008

Ion Ratio Lower Upper

276 100

138 17.0 13.9 20.9

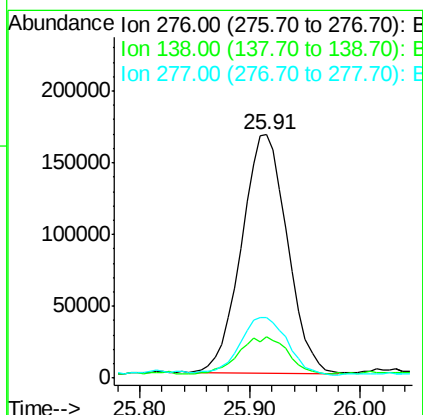
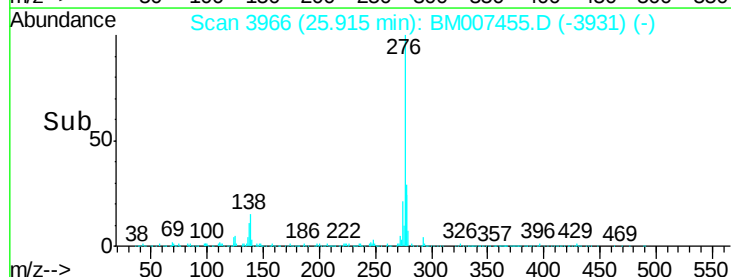
277 25.0 20.1 30.1

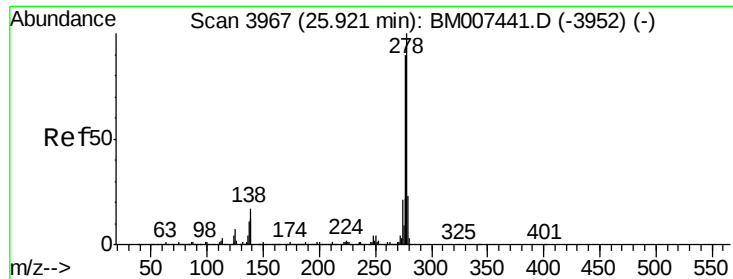


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#90

Dibenzo(a,h)anthracene

Concen: 1.62 ng/ul

RT: 25.91 min Scan# 3965

Delta R.T. -0.01 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

Instrument :

BNA_M

ClientSampleId :

BD3B3

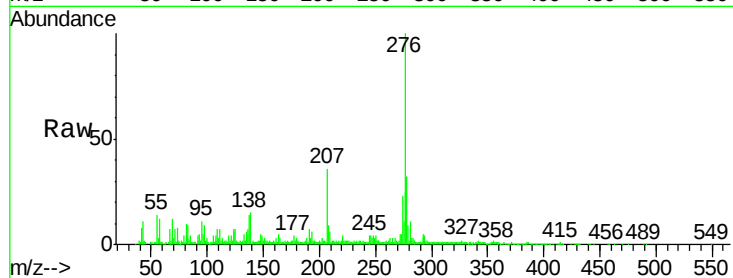
Tgt Ion:278 Resp: 181420

Ion Ratio Lower Upper

278 100

139 17.9 9.5 14.3#

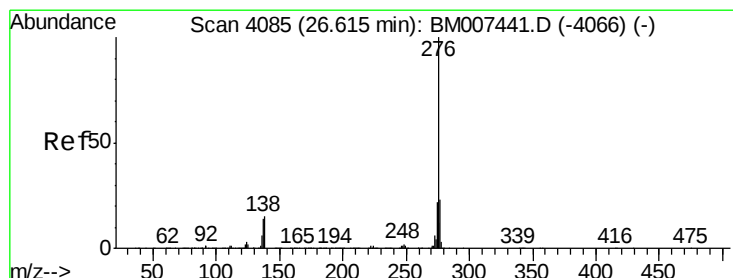
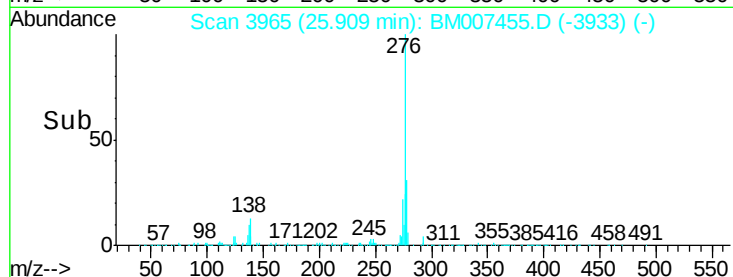
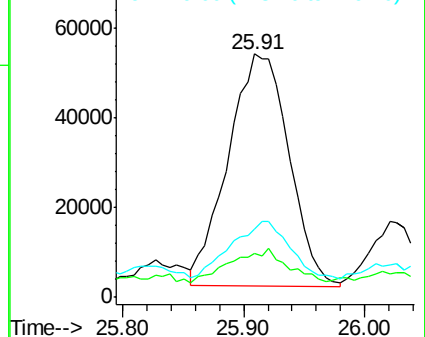
279 27.9 19.1 28.7



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



#91

Benzo(g,h,i)perylene

Concen: 2.89 ng/ul

RT: 26.62 min Scan# 4086

Delta R.T. 0.01 min

Lab File: BM007455.D

Acq: 08 Sep 2016 00:54

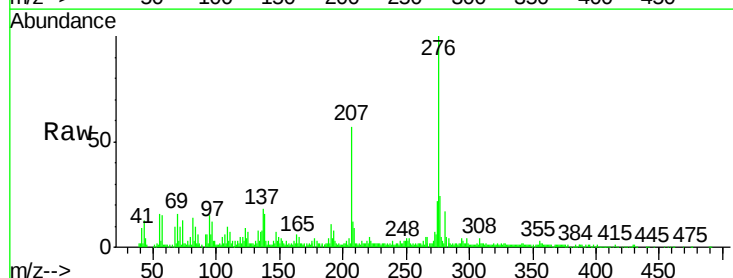
Tgt Ion:276 Resp: 330455

Ion Ratio Lower Upper

276 100

138 16.1 13.5 20.3

277 24.4 19.3 28.9



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

