

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040216\
 Data File : BE091601.D
 Acq On : 1 Apr 2016 21:51
 Operator : UM/SJ
 Sample : H2087-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-SF-002

Quant Time: Apr 01 23:44:34 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	38222	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	190139	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	110018	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	271521	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	344662	5.00	ng	-0.02
28) Perylene-d12	23.76	264	318145	5.00	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	76823	7.68	ng	-0.02
5) Phenol-d6	6.97	99	122314	9.04	ng	-0.02
7) Nitrobenzene-d5	8.96	82	50584	3.96	ng	-0.02
11) 2,4,6-Tribromophenol	15.91	330	33677	6.91	ng	-0.01
12) 2-Fluorobiphenyl	13.05	172	148387	4.75	ng	-0.02
24) Terphenyl-d14	19.76	244	220851	5.05	ng	-0.02

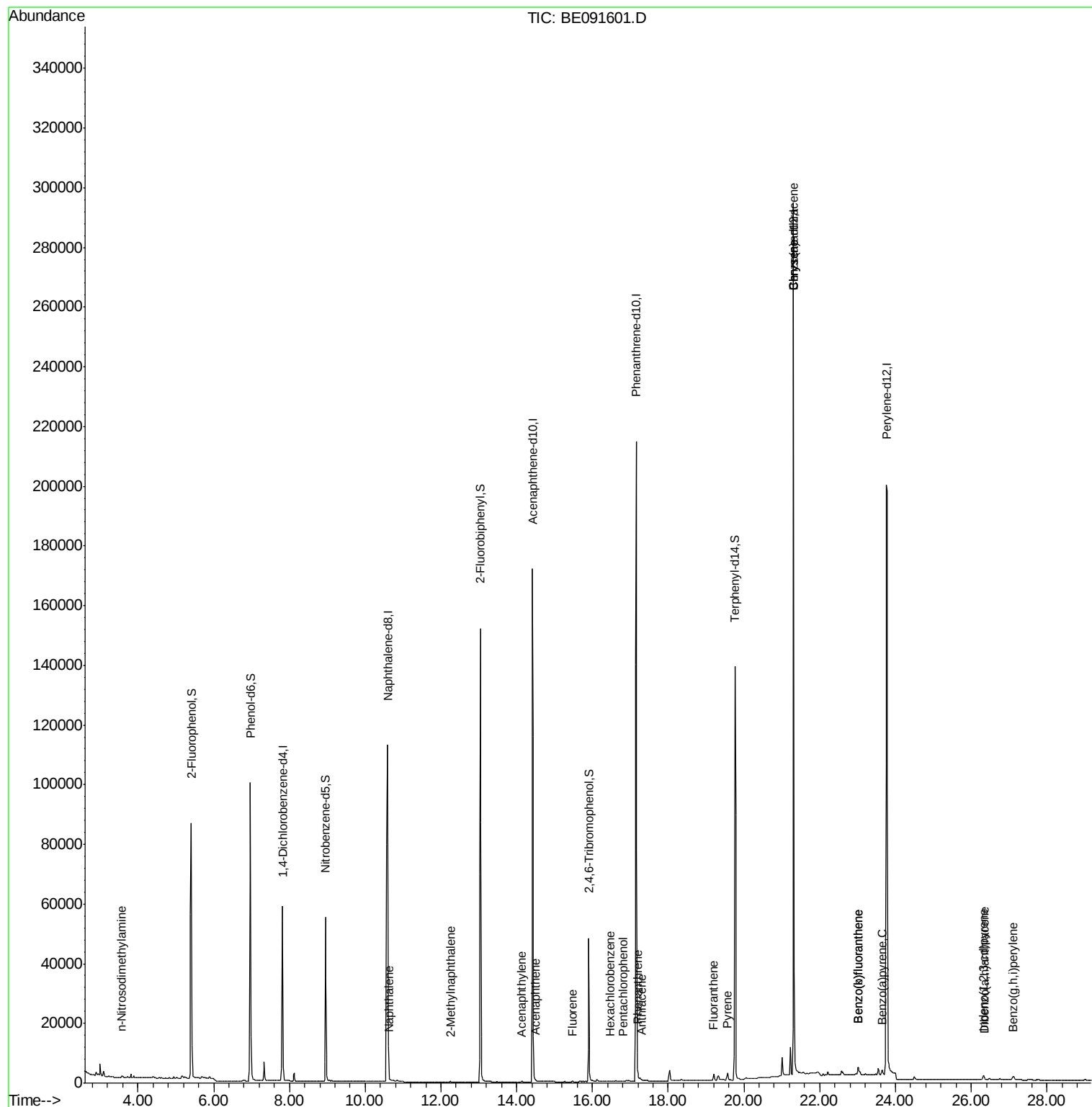
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.57	42	202	0.03	ng	# 1
8) Naphthalene	10.63	128	541	0.01	ng	# 64
9) 2-Methylnaphthalene	12.25	142	151	0.01	ng	# 71
13) Acenaphthylene	14.14	152	1230	0.03	ng	# 26
14) Acenaphthene	14.49	154	74	0.00	ng	# 61
15) Fluorene	15.47	166	246	0.01	ng	# 83
17) Hexachlorobenzene	16.46	284	31	0.00	ng	# 39
18) Pentachlorophenol	16.81	266	119	0.02	ng	# 77
19) Phenanthrene	17.19	178	2479	0.04	ng	# 90
20) Anthracene	17.29	178	445	0.01	ng	# 94
21) Fluoranthene	19.21	202	2318	0.03	ng	# 91
23) Pyrene	19.57	202	2801	0.04	ng	# 94
25) Benzo(a)anthracene	21.31	228	4518	0.06	ng	# 69
26) Chrysene	21.31	228	4458	0.06	ng	# 65
27) Indeno(1,2,3-cd)pyrene	26.33	276	2229	0.03	ng	# 97
29) Benzo(b)fluoranthene	23.01	252	4695	0.06	ng	# 1
30) Benzo(k)fluoranthene	23.01	252	4730	0.06	ng	# 1
31) Benzo(a)pyrene	23.65	252	2405	0.03	ng	# 19
32) Dibenzo(a,h)anthracene	26.35	278	745	0.01	ng	# 1
33) Benzo(a,h,i)perylene	27.12	276	2907	0.04	ng	# 67

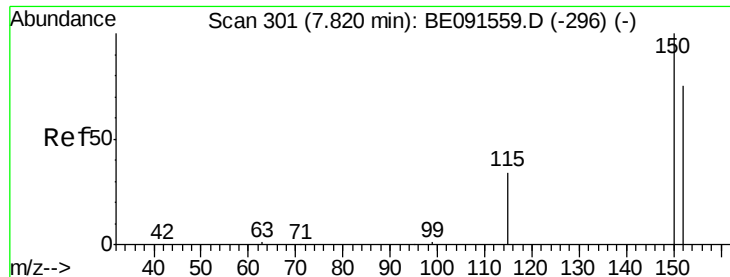
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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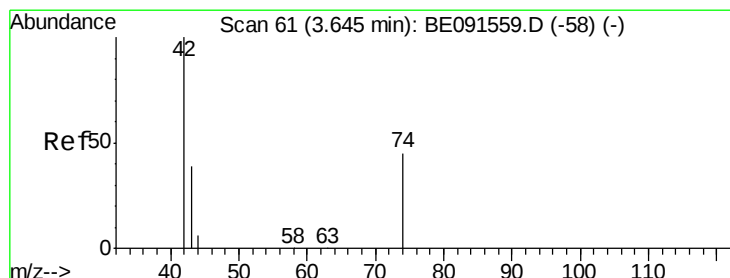
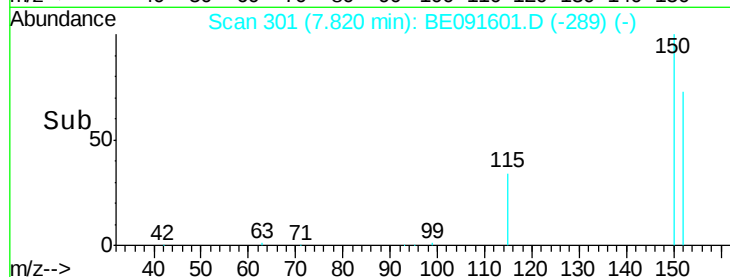
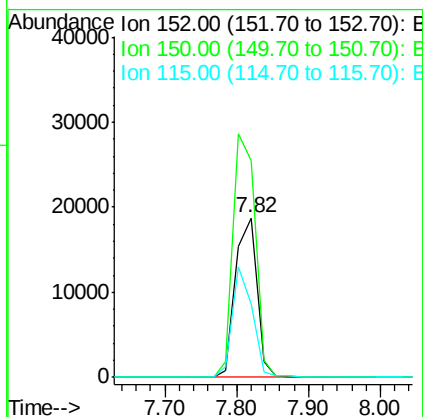
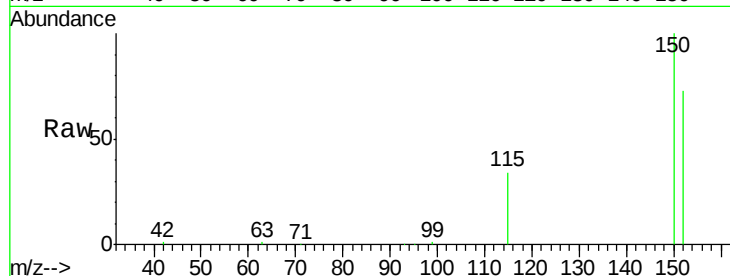


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. 0.00 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-002

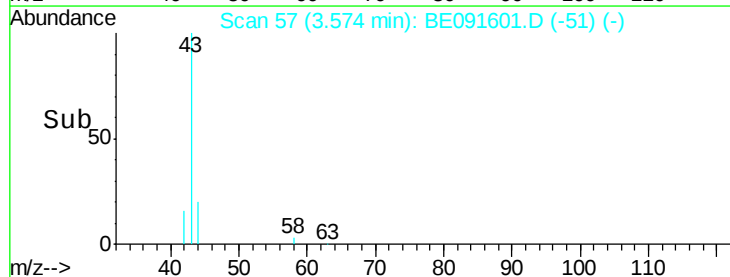
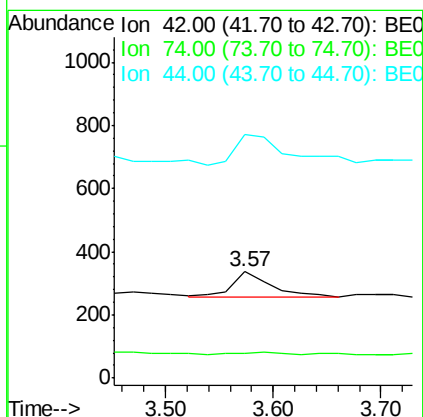
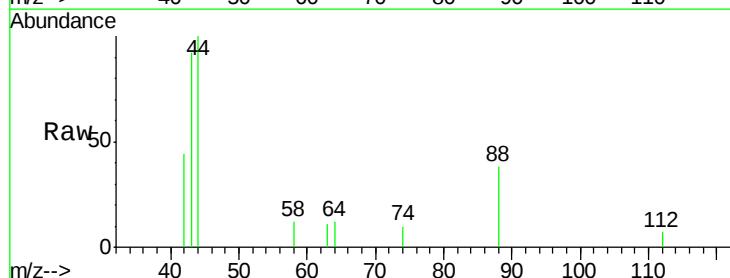
Tot Ion:152 Resp: 38222
Ion Ratio Lower Upper
152 100
150 136.1 122.2 183.2
115 46.3 45.9 68.9

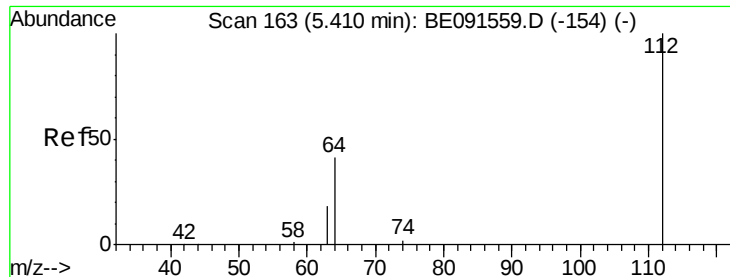


#3

n-Nitrosodimethylamine
Concen: 0.03 ng
RT: 3.57 min Scan# 57
Delta R.T. -0.10 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Tgt Ion: 42 Resp: 202
Ion Ratio Lower Upper
42 100
74 16.3 84.3 126.5#
44 185.1 6.7 10.1#





#4

2-Fluorophenol

Concen: 7.68 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-002

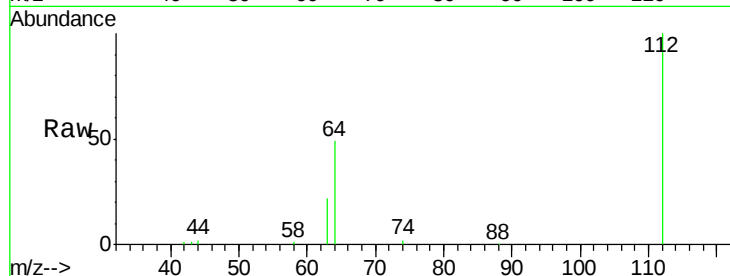
Tot Ion:112 Resp: 76823

Ion Ratio Lower Upper

112 100

64 67.4 53.3 79.9

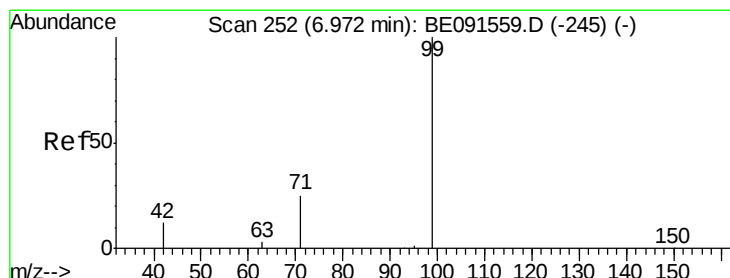
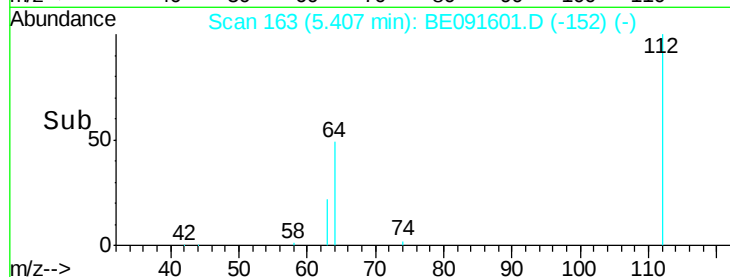
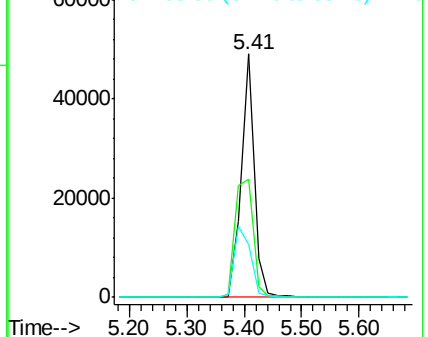
63 36.4 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 9.04 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

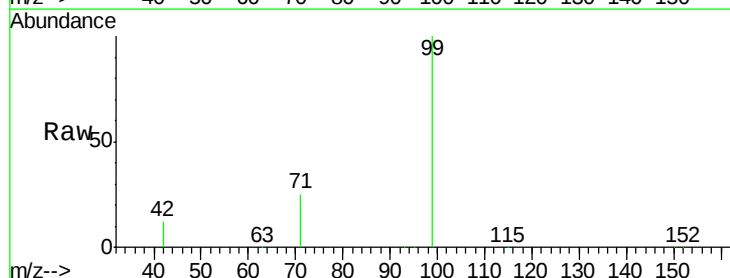
Tgt Ion: 99 Resp: 122314

Ion Ratio Lower Upper

99 100

42 24.5 20.6 30.8

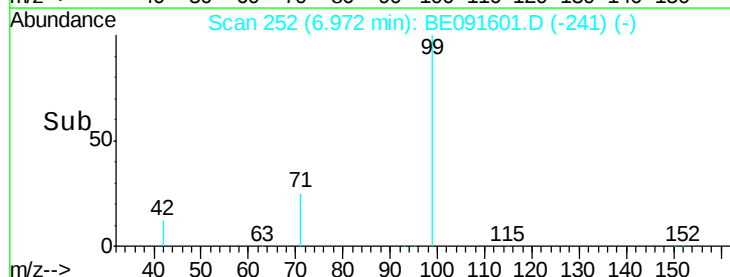
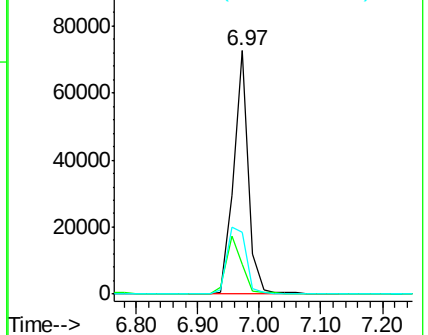
71 35.6 29.0 43.4

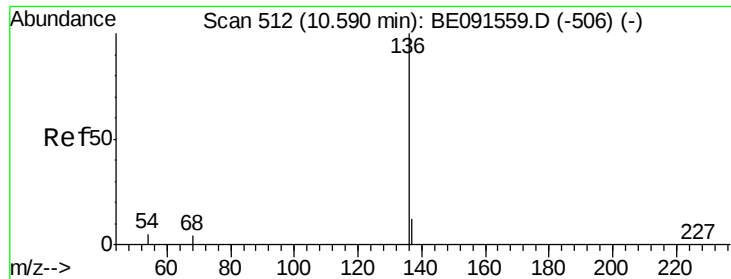


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

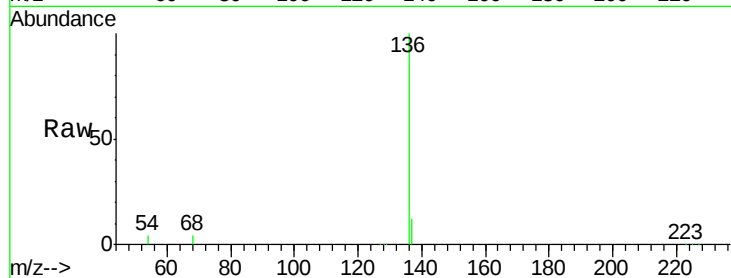
Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-002

Tot Ion:136	Resp:	190139
Ion Ratio	Lower	Upper
136	100	
137	11.7	8.8 13.2
54	4.3	5.2 7.8#
68	3.6	4.1 6.1#

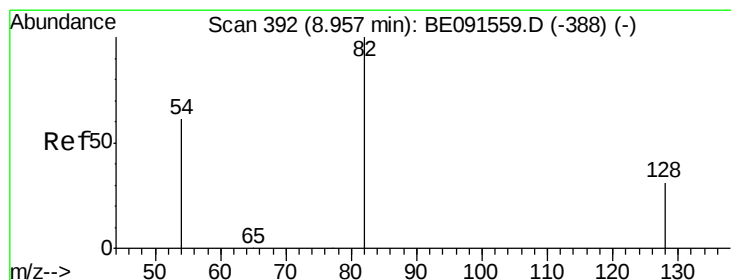
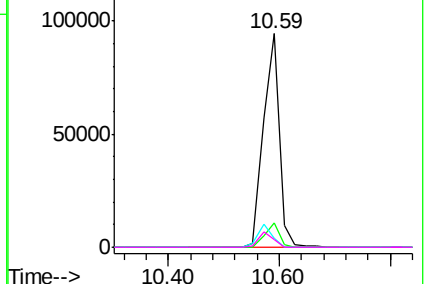
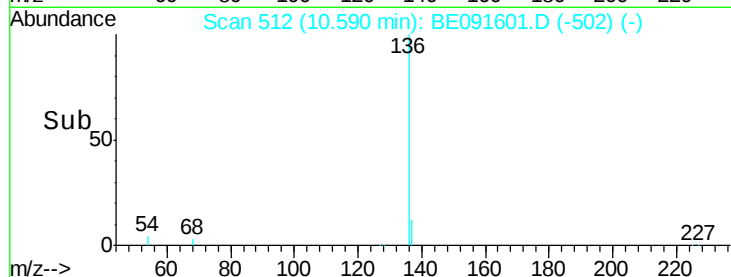


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#7

Nitrobenzene-d5

Concen: 3.96 ng

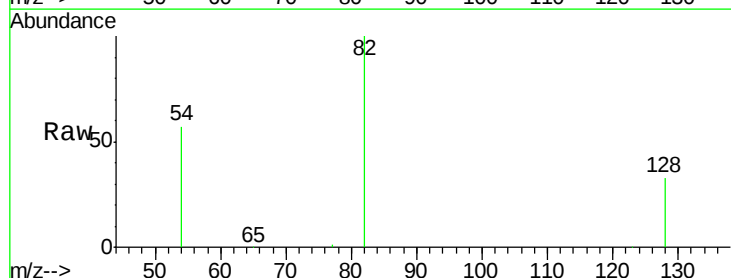
RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

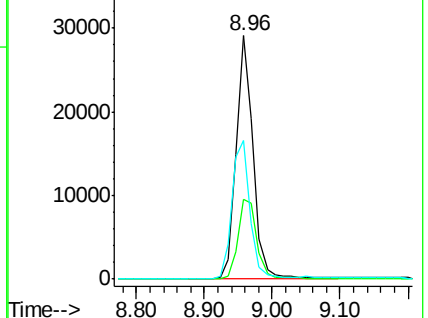
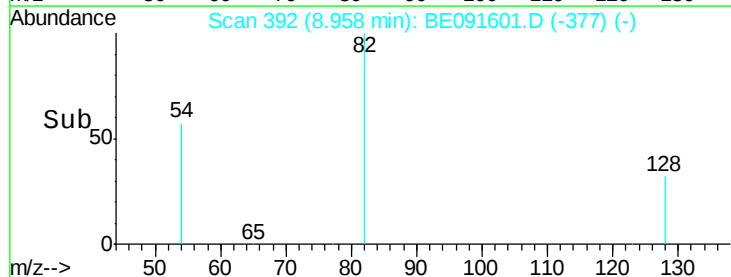
Tgt Ion: 82	Resp:	50584
Ion Ratio	Lower	Upper
82	100	
128	32.6	23.5 35.3
54	57.0	52.4 78.6

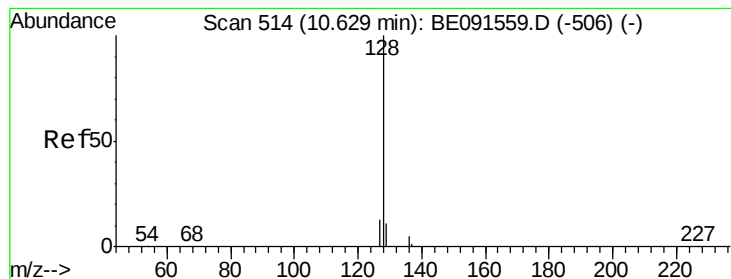


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.01 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-002

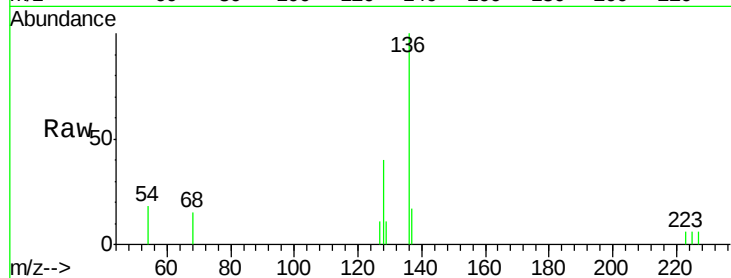
Tot Ion:128 Resp: 541

Ion Ratio Lower Upper

128 100

129 26.7 8.2 12.2#

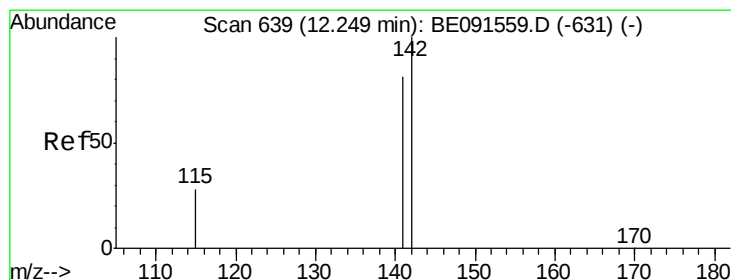
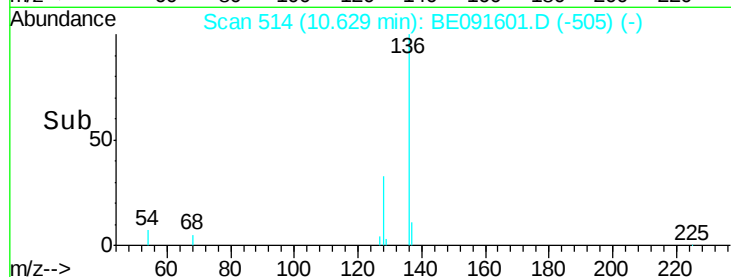
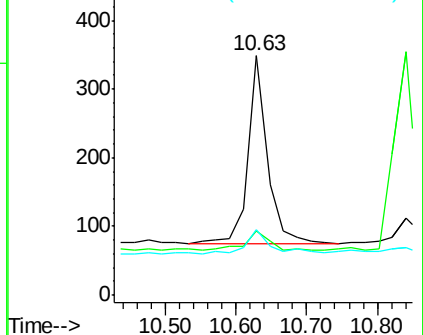
127 27.3 11.8 17.8#



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



#9

2-Methylnaphthalene

Concen: 0.01 ng

RT: 12.25 min Scan# 639

Delta R.T. -0.01 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

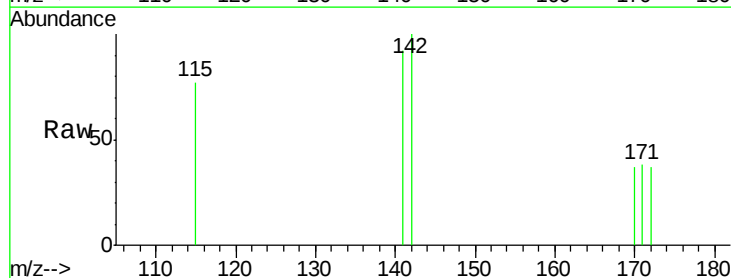
Tgt Ion:142 Resp: 151

Ion Ratio Lower Upper

142 100

141 91.9 66.9 100.3

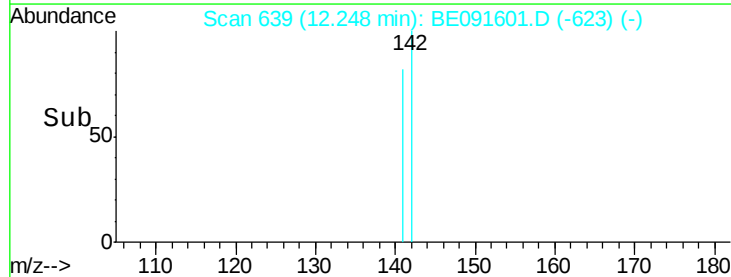
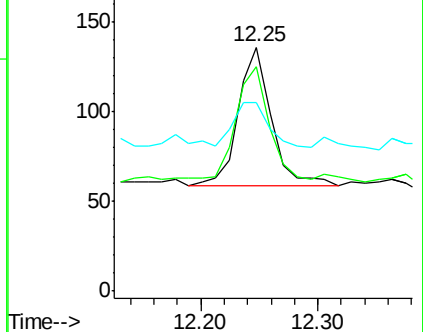
115 77.2 25.1 37.7#

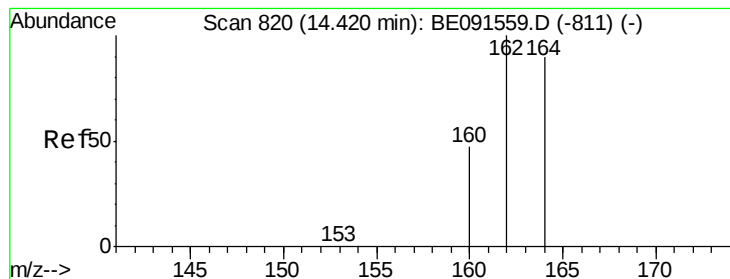


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#10

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.42 min Scan# 820

Delta R.T. -0.03 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-002

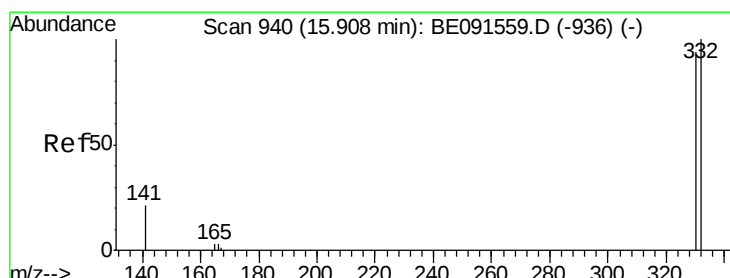
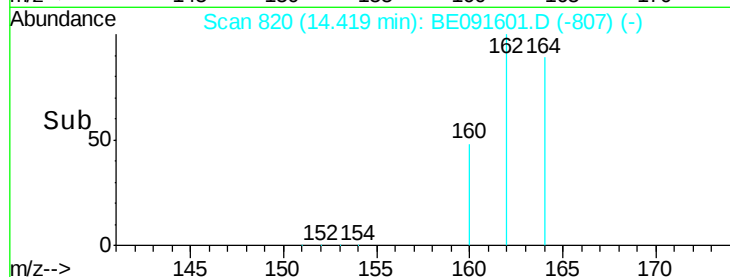
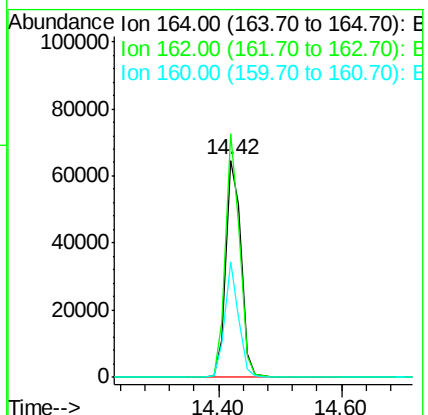
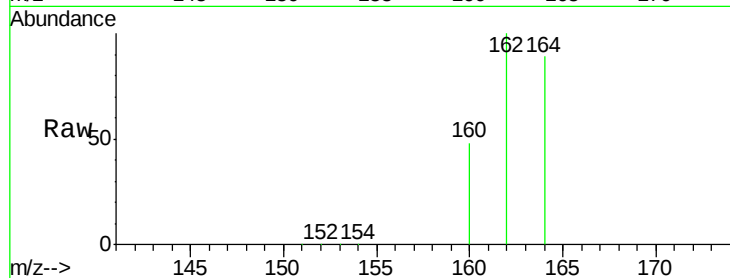
Tot Ion:164 Resp: 110018

Ion Ratio Lower Upper

164 100

162 112.3 84.4 126.6

160 53.5 37.7 56.5



#11

2,4,6-Tribromophenol

Concen: 6.91 ng

RT: 15.91 min Scan# 940

Delta R.T. -0.01 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

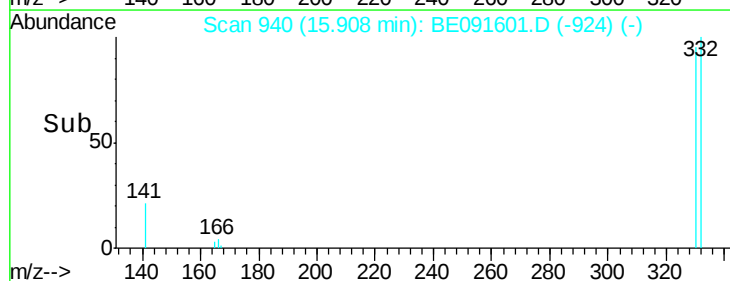
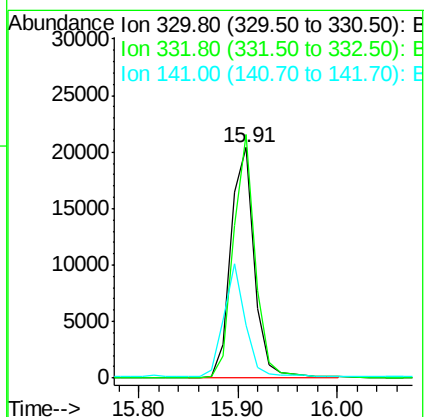
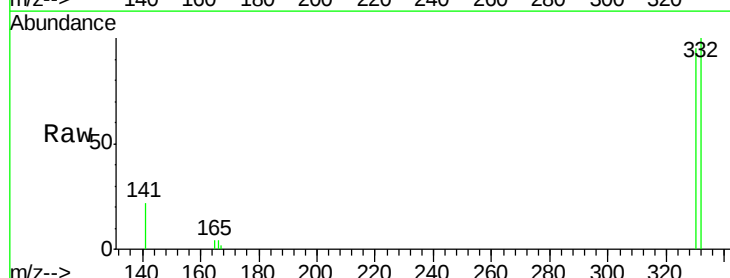
Tgt Ion:330 Resp: 33677

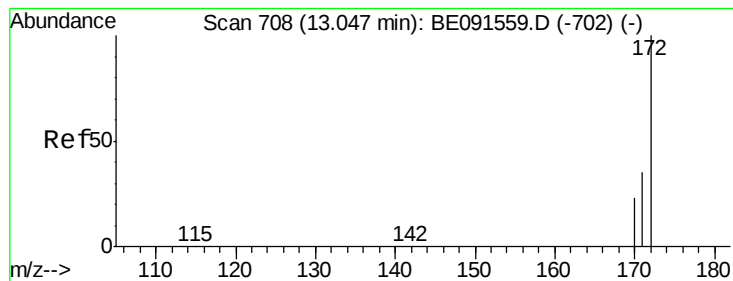
Ion Ratio Lower Upper

330 100

332 97.6 79.2 118.8

141 44.9 28.1 42.1#

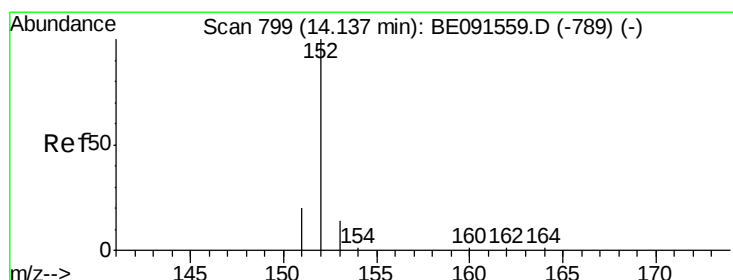
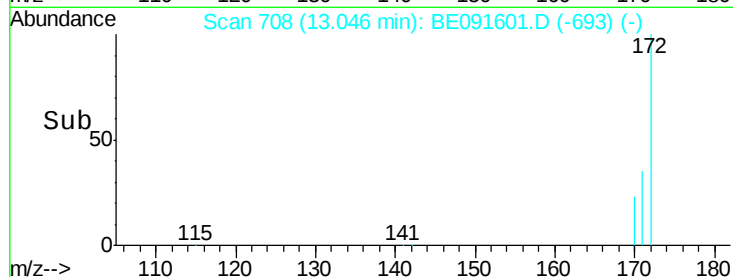
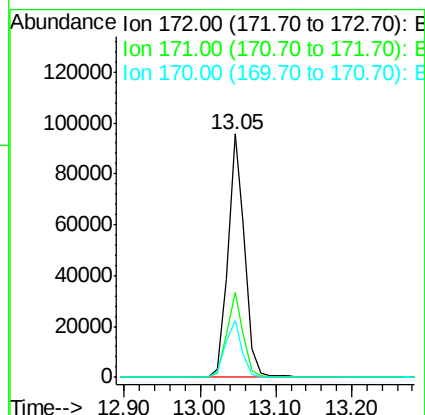
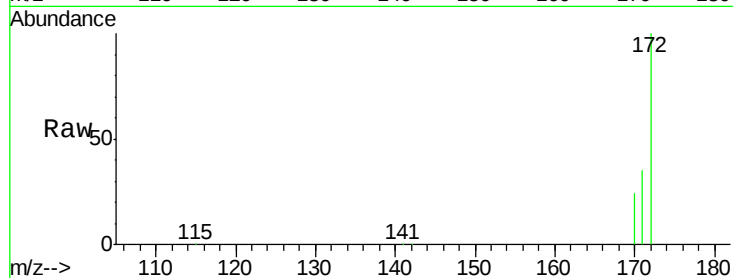




#12
2-Fluorobiphenyl
Concen: 4.75 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

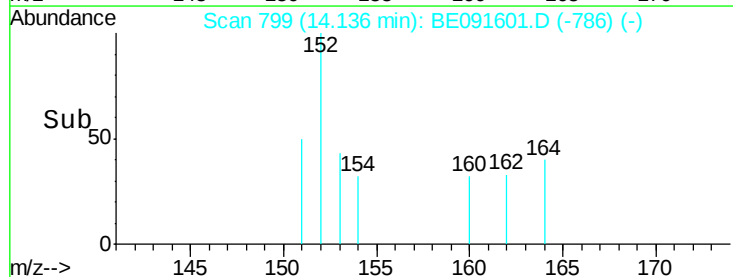
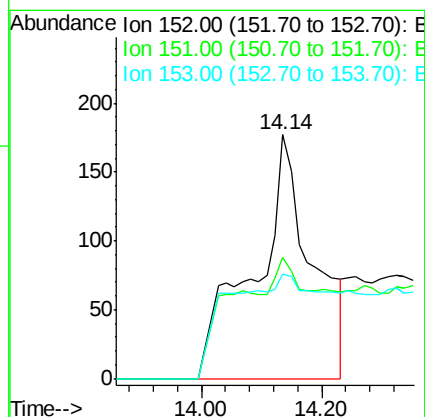
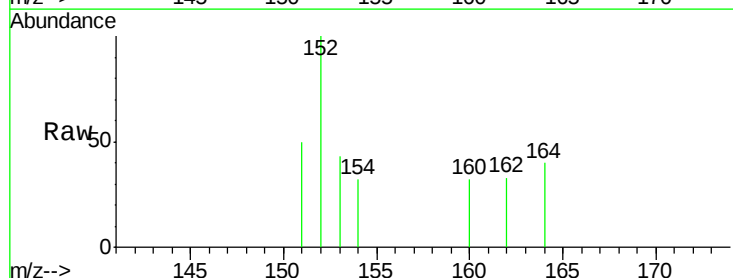
Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-002

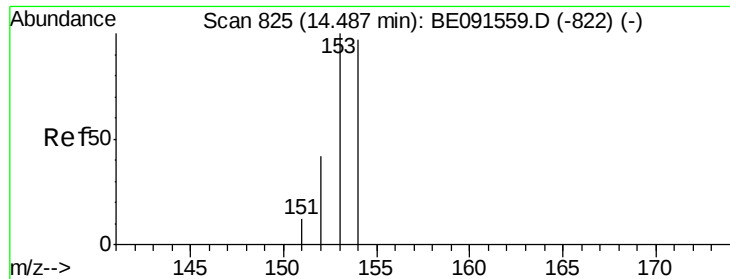
Tot Ion:172 Resp: 148387
Ion Ratio Lower Upper
172 100
171 35.0 29.8 44.8
170 23.5 21.4 32.2



#13
Acenaphthylene
Concen: 0.03 ng
RT: 14.14 min Scan# 799
Delta R.T. -0.01 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Tgt Ion:152 Resp: 1230
Ion Ratio Lower Upper
152 100
151 9.1 16.3 24.5#
153 73.4 11.1 16.7#





#14

Acenaphthene

Concen: 0.00 ng

RT: 14.49 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-002

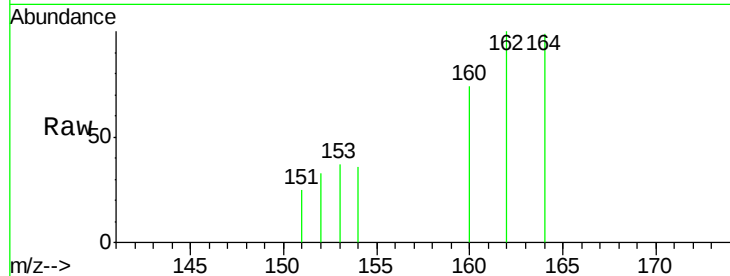
Tot Ion:154 Resp: 74

Ion Ratio Lower Upper

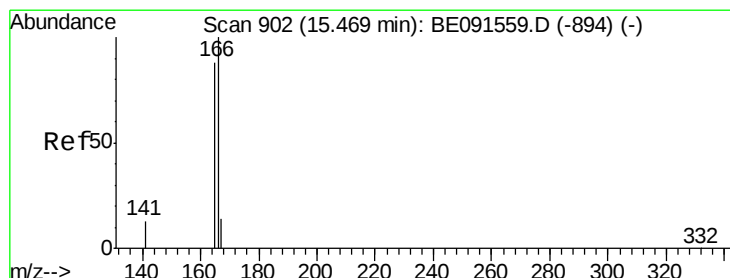
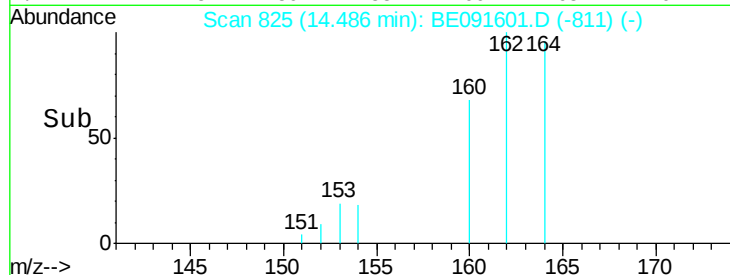
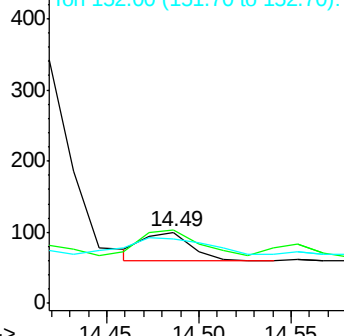
154 100

153 139.2 87.3 130.9#

152 97.3 42.9 64.3#



Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 152.00 (151.70 to 152.70): E



#15

Fluorene

Concen: 0.01 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

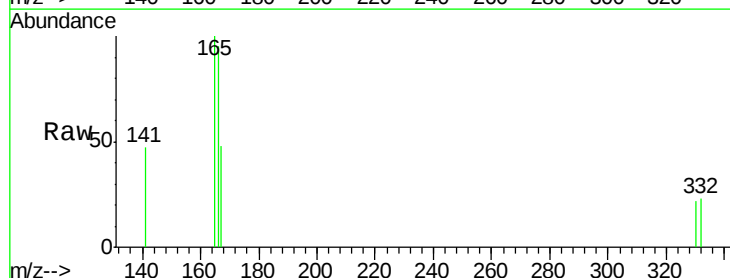
Tgt Ion:166 Resp: 246

Ion Ratio Lower Upper

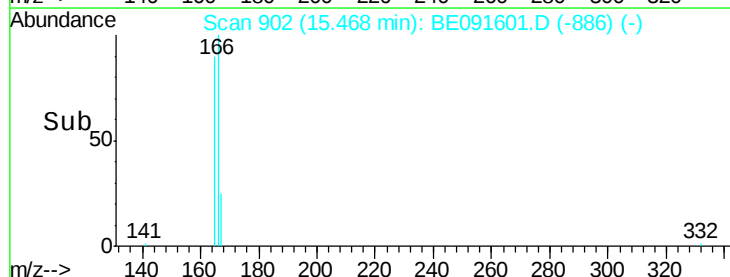
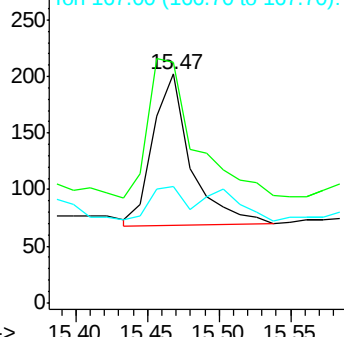
166 100

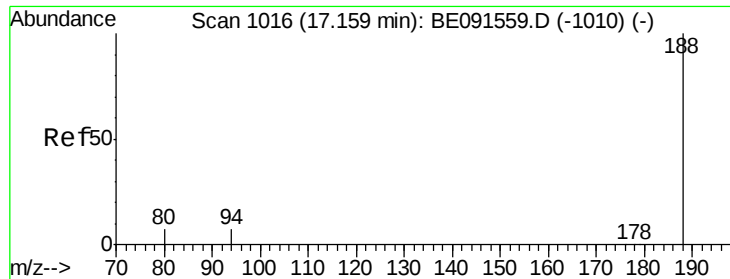
165 116.3 79.2 118.8

167 19.9 10.8 16.2#



Abundance Ion 166.00 (165.70 to 166.70): E
Ion 165.00 (164.70 to 165.70): E
Ion 167.00 (166.70 to 167.70): E

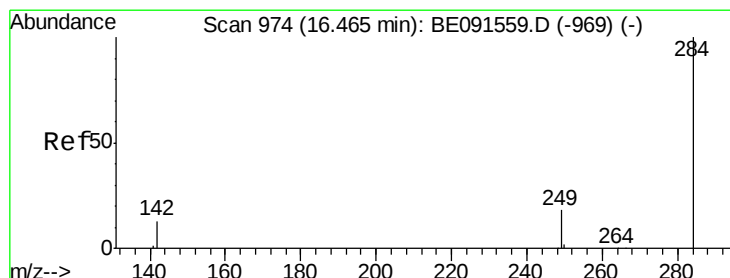
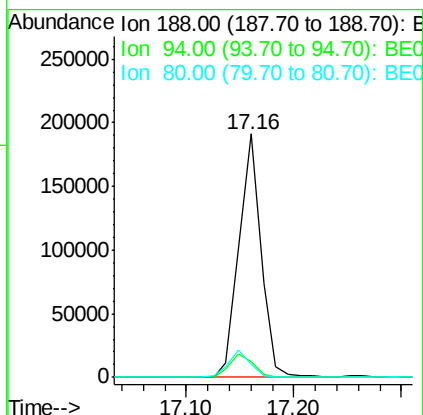
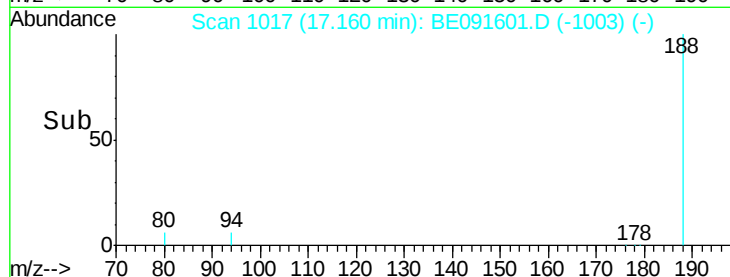
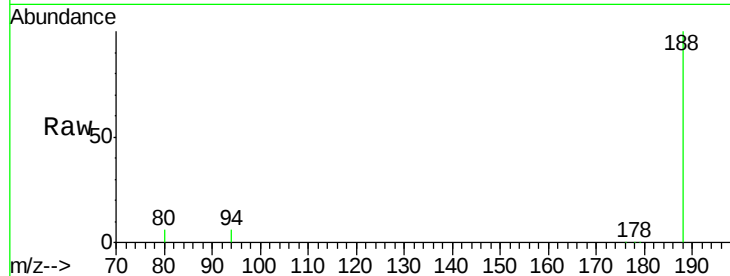




#16
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.16 min Scan# 1017
Delta R.T. -0.01 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

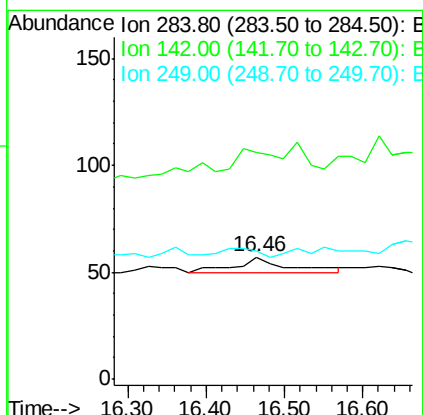
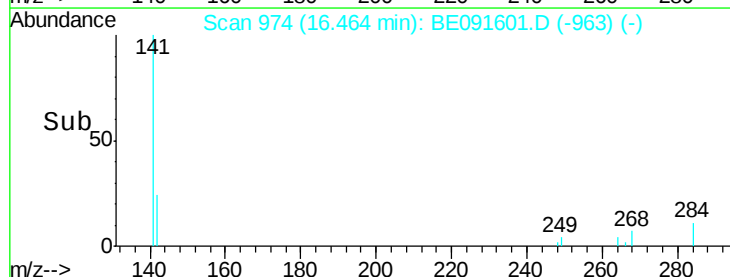
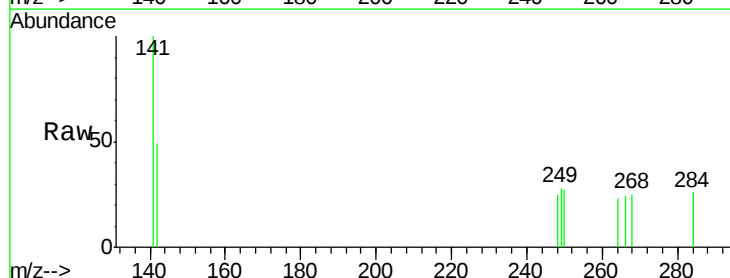
Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-002

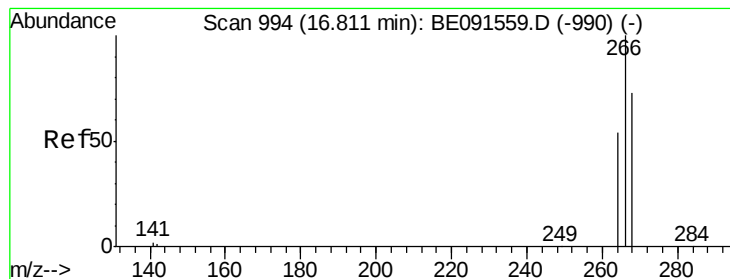
Tot Ion:188 Resp: 271521
Ion Ratio Lower Upper
188 100
94 6.5 5.4 8.2
80 5.7 5.0 7.4



#17
Hexachlorobenzene
Concen: 0.00 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Tgt Ion:284 Resp: 31
Ion Ratio Lower Upper
284 100
142 0.0 31.0 46.4#
249 0.0 25.8 38.8#





#18

Pentachlorophenol

Concen: 0.02 ng

RT: 16.81 min Scan# 994

Delta R.T. -0.02 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-002

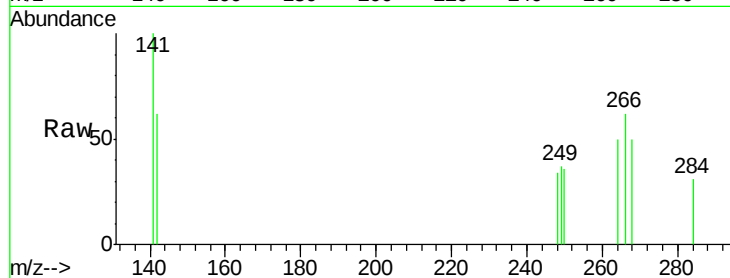
Tot Ion:266 Resp: 119

Ion Ratio Lower Upper

266 100

268 81.0 48.2 72.2#

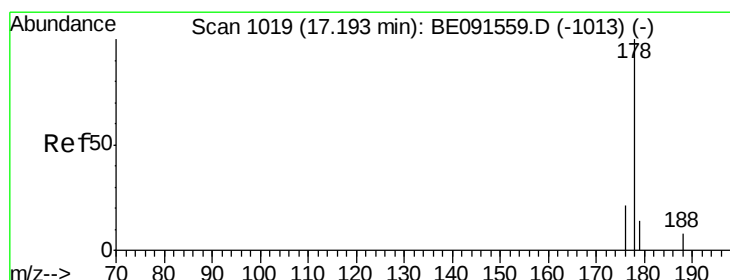
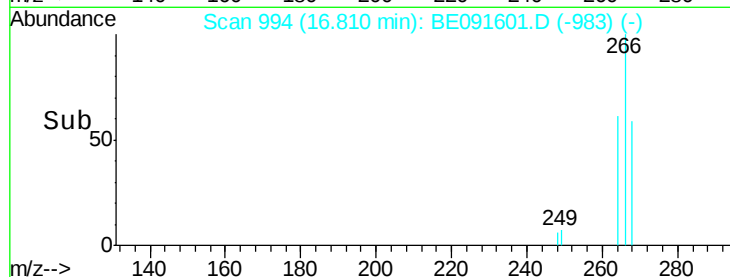
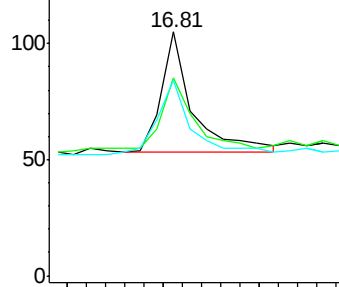
264 80.0 52.1 78.1#



Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E



#19

Phenanthrene

Concen: 0.04 ng

RT: 17.19 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

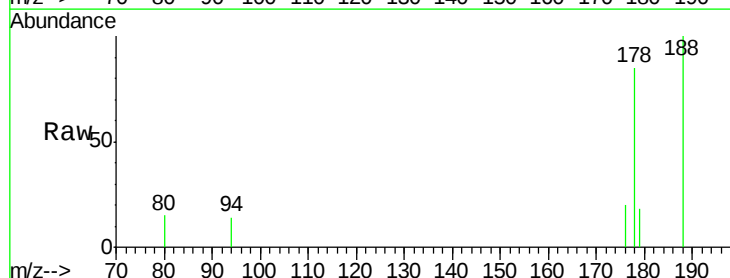
Tgt Ion:178 Resp: 2479

Ion Ratio Lower Upper

178 100

176 18.4 15.5 23.3

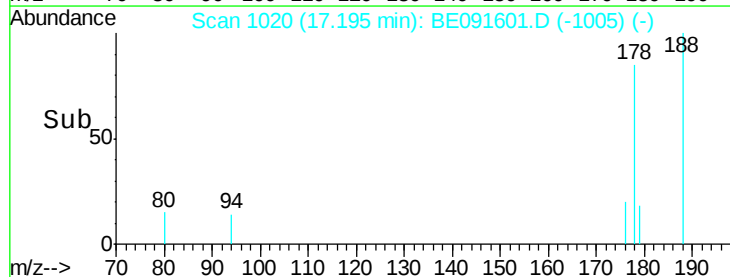
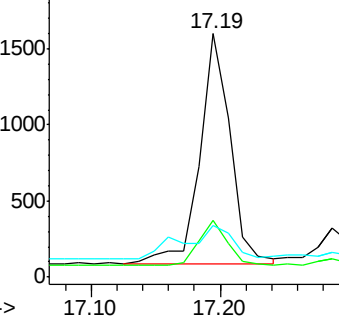
179 24.4 13.1 19.7#

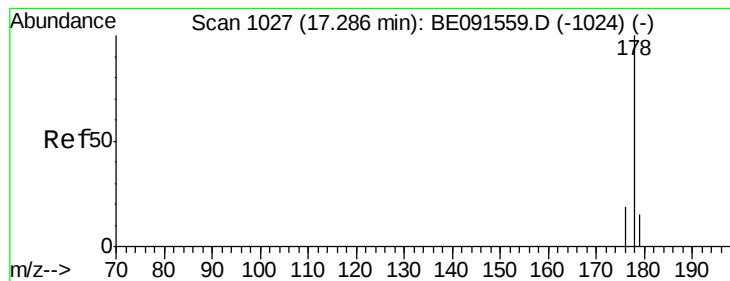


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#20

Anthracene

Concen: 0.01 ng

RT: 17.29 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-002

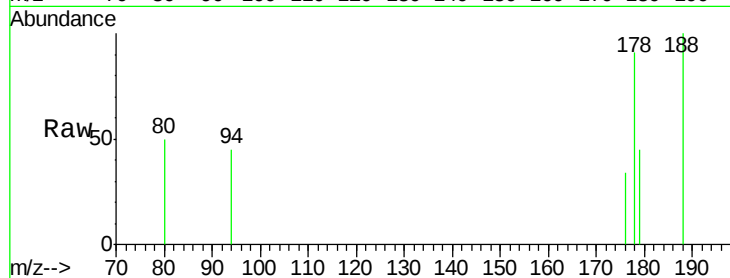
Tot Ion:178 Resp: 445

Ion Ratio Lower Upper

178 100

176 14.6 14.9 22.3#

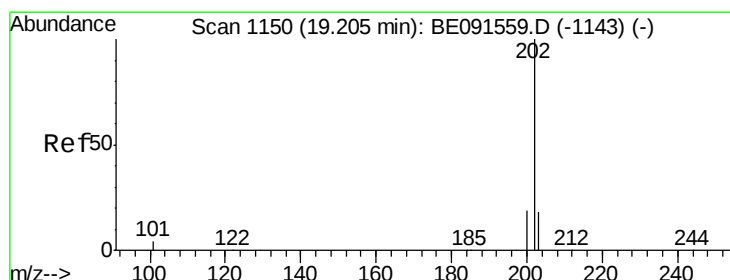
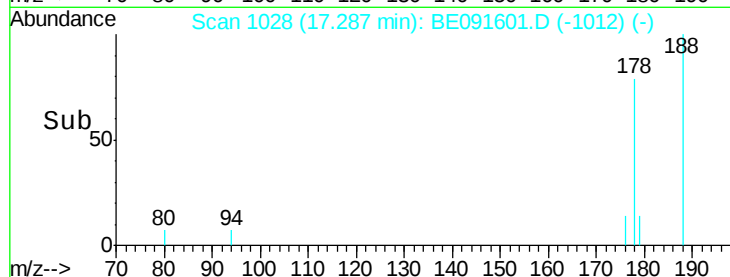
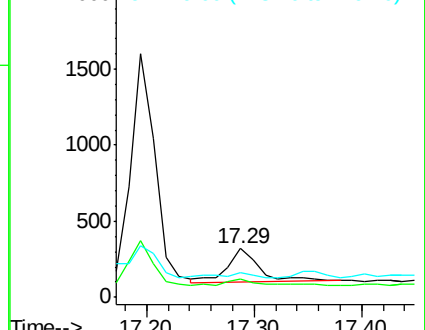
179 16.0 12.2 18.4



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#21

Fluoranthene

Concen: 0.03 ng

RT: 19.21 min Scan# 1151

Delta R.T. -0.02 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

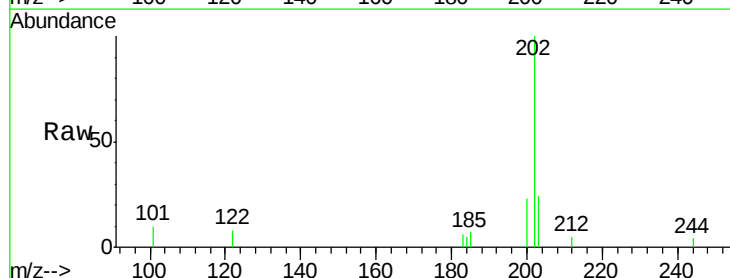
Tgt Ion:202 Resp: 2318

Ion Ratio Lower Upper

202 100

101 16.3 8.3 12.5#

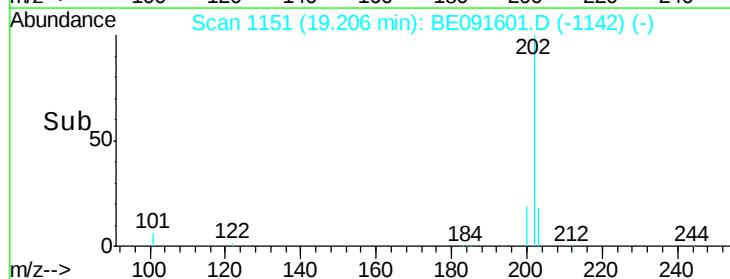
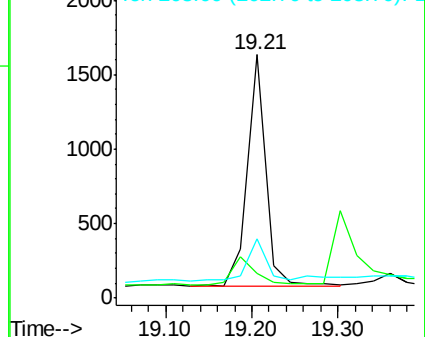
203 19.8 13.9 20.9

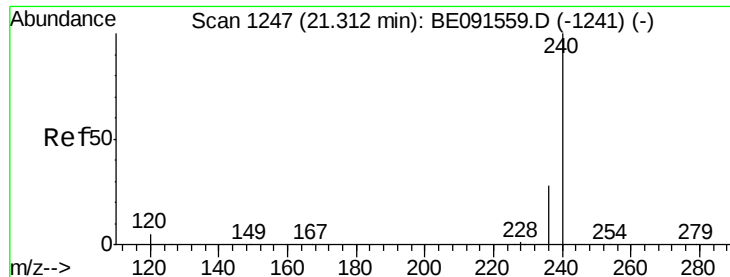


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

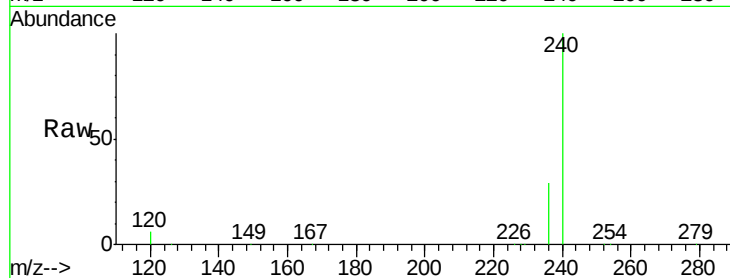




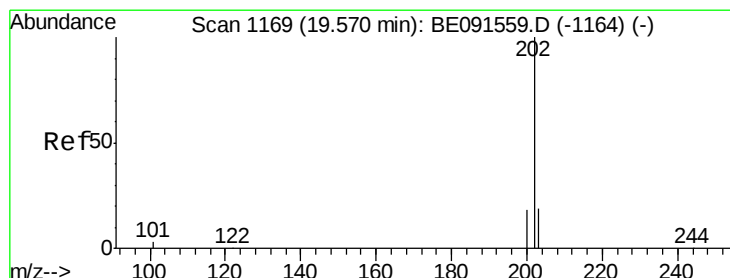
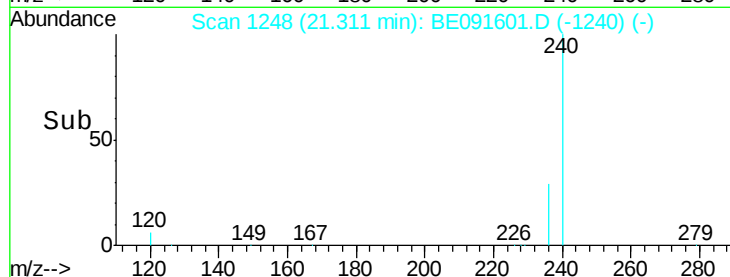
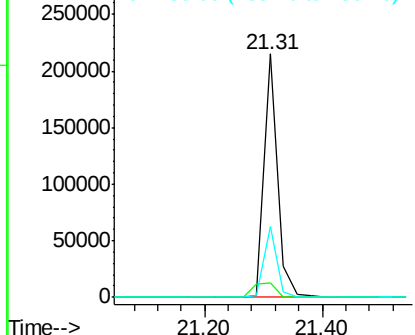
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-002

Tot Ion:240 Resp: 344662
Ion Ratio Lower Upper
240 100
120 6.0 4.0 6.0#
236 29.2 23.0 34.4

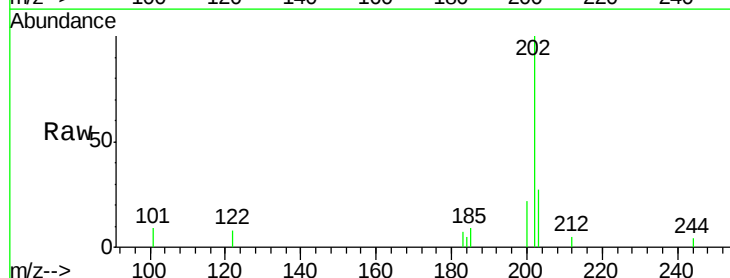


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

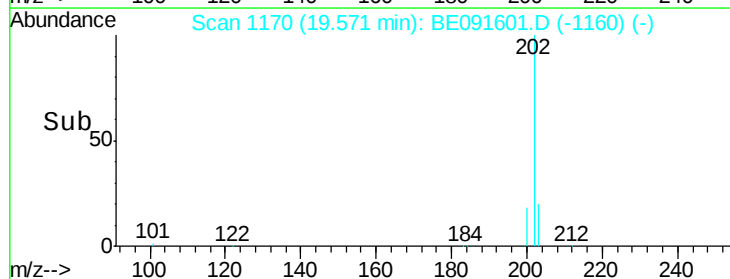
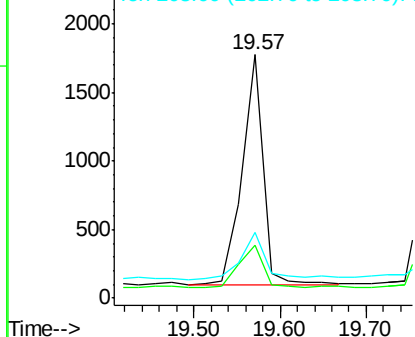


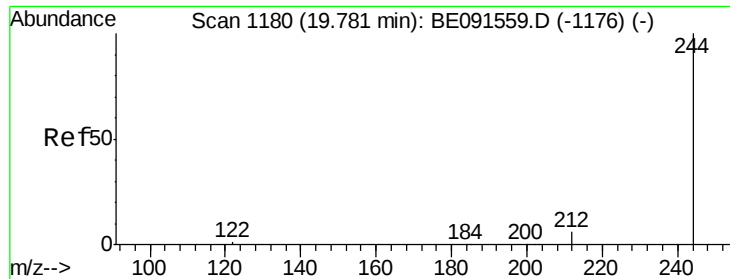
#23
Pyrene
Concen: 0.04 ng
RT: 19.57 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Tgt Ion:202 Resp: 2801
Ion Ratio Lower Upper
202 100
200 21.0 16.4 24.6
203 23.8 14.6 21.8#



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 200.00 (199.70 to 200.70): E
Ion 203.00 (202.70 to 203.70): E





#24

Terphenyl-d14

Concen: 5.05 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-002

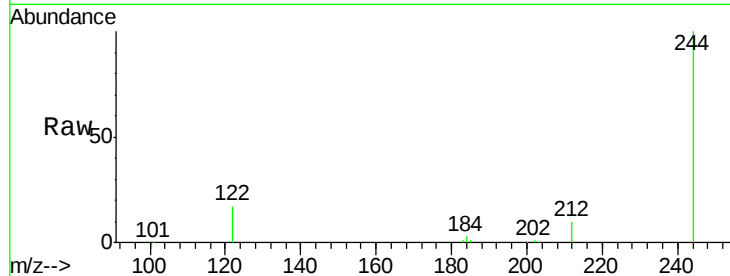
Tot Ion:244 Resp: 220851

Ion Ratio Lower Upper

244 100

212 10.2 5.8 8.8#

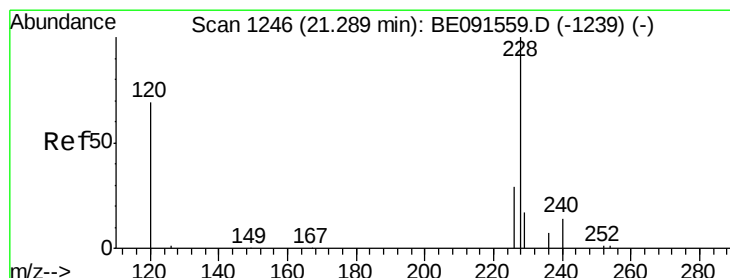
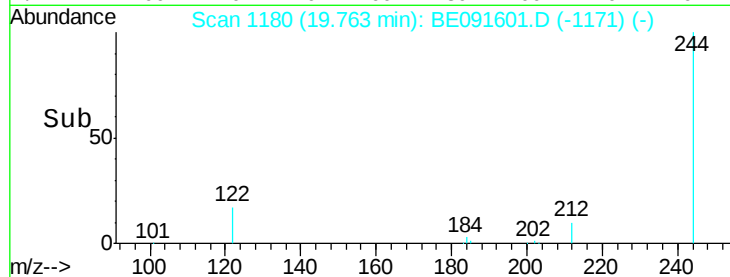
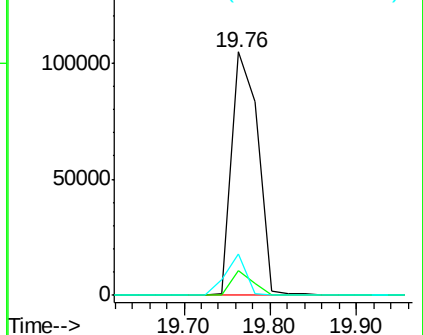
122 17.2 1.8 2.8#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#25

Benzo(a)anthracene

Concen: 0.06 ng

RT: 21.31 min Scan# 1248

Delta R.T. -0.00 min

Lab File: BE091601.D

Acq: 1 Apr 2016 21:51

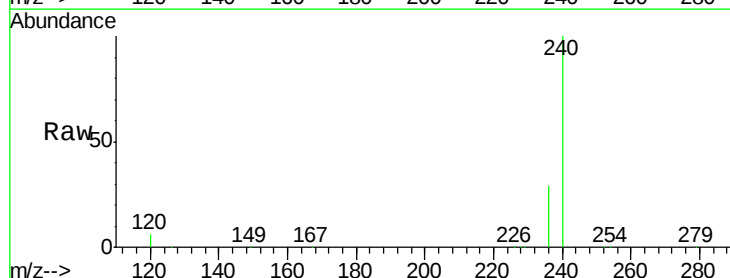
Tgt Ion:228 Resp: 4518

Ion Ratio Lower Upper

228 100

226 34.8 24.0 36.0

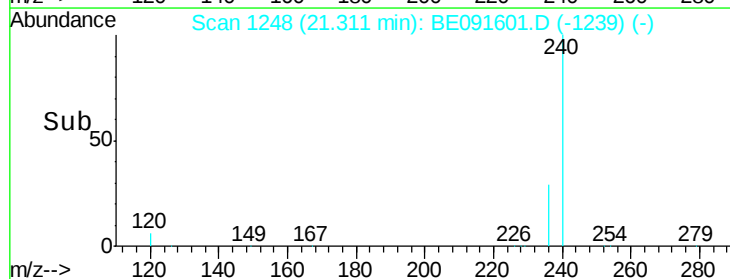
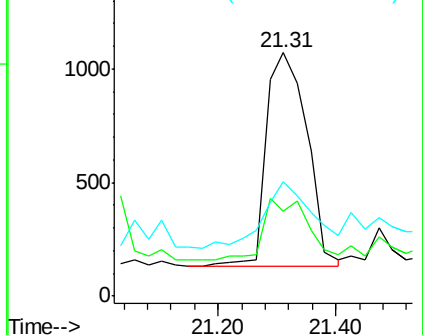
229 46.9 13.8 20.6#

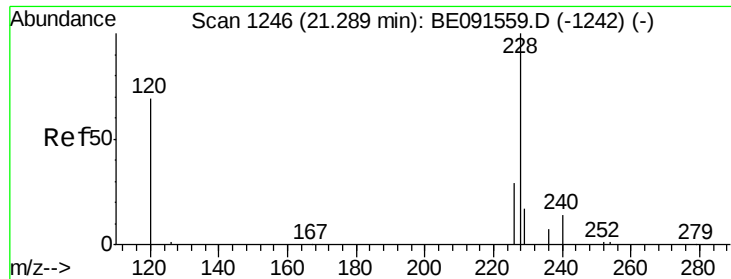


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

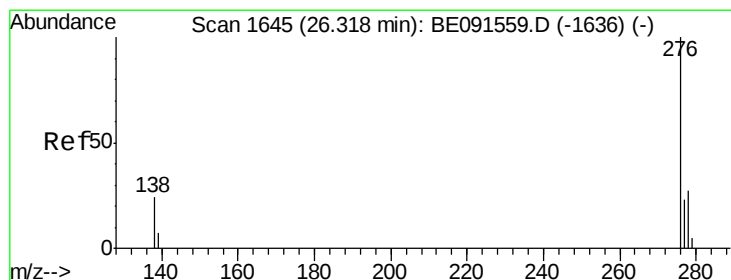
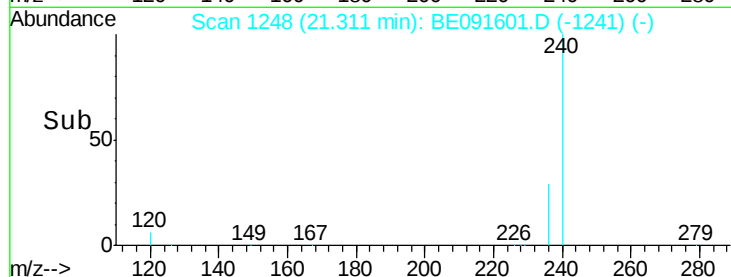
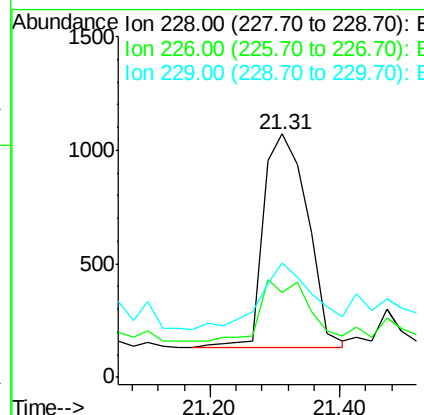
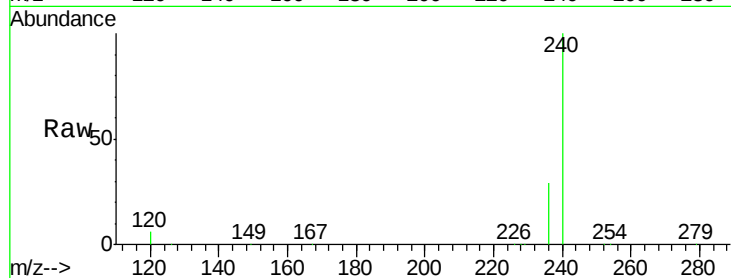




#26
Chrysene
Concen: 0.06 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.05 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

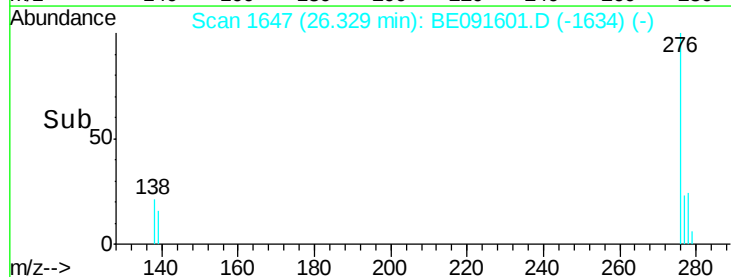
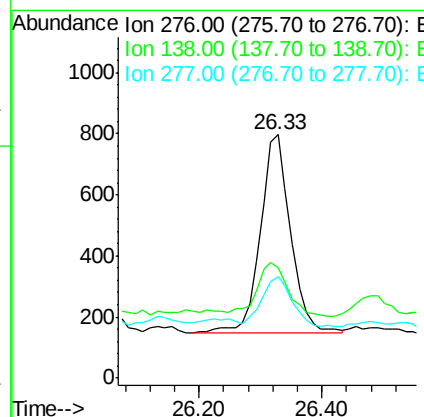
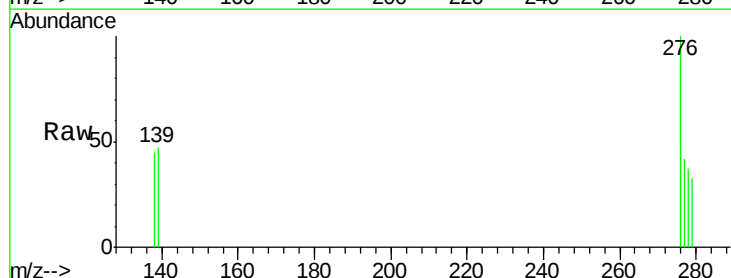
Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-002

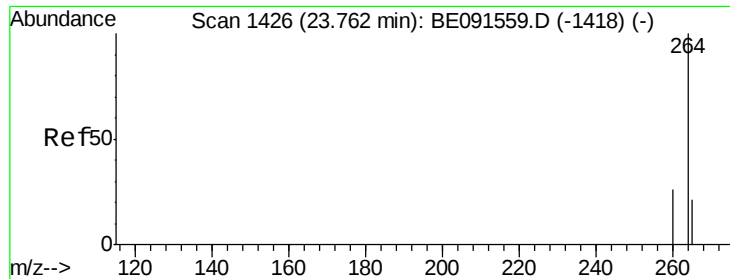
Tot Ion:228 Resp: 4458
Ion Ratio Lower Upper
228 100
226 34.8 18.9 28.3#
229 46.9 19.1 28.7#



#27
Indeno(1,2,3-cd)pyrene
Concen: 0.03 ng
RT: 26.33 min Scan# 1647
Delta R.T. -0.05 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Tgt Ion:276 Resp: 2229
Ion Ratio Lower Upper
276 100
138 27.5 20.2 30.4
277 25.1 19.8 29.8

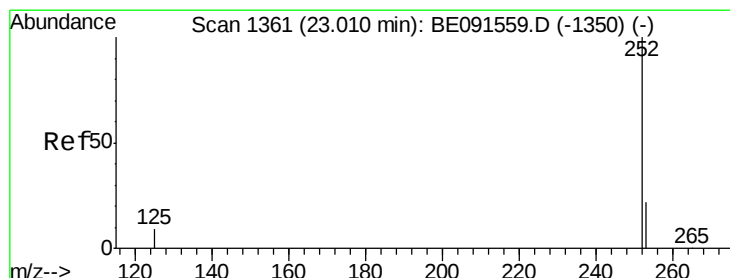
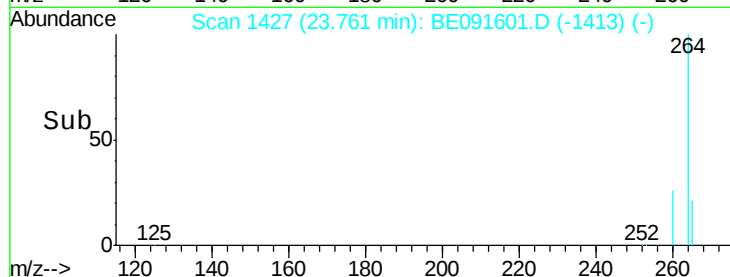
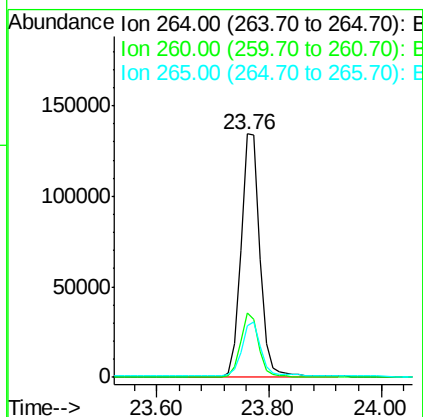
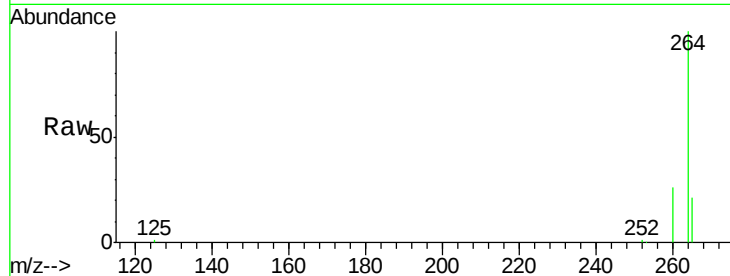




#28
Pervlene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

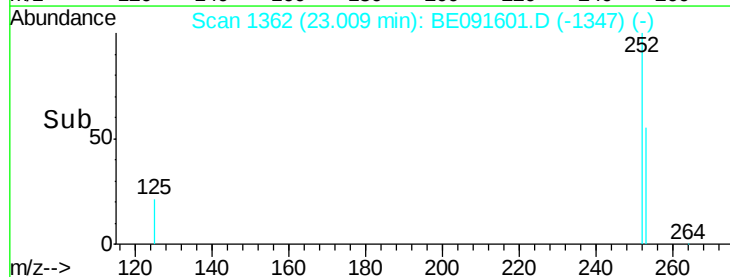
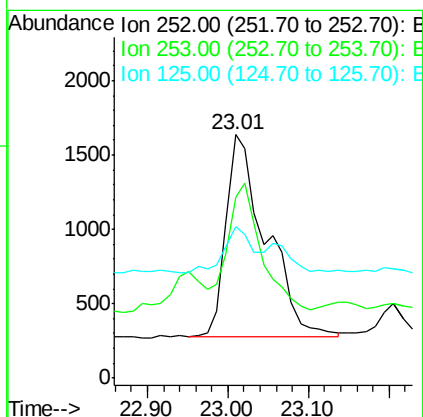
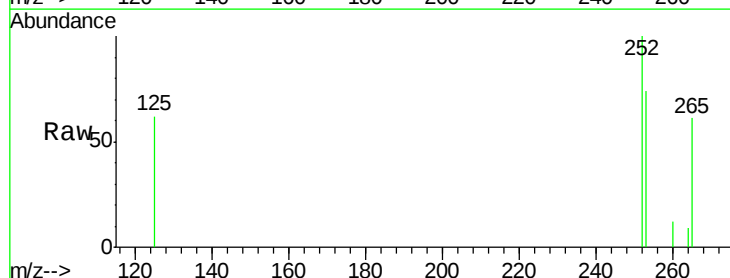
Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-002

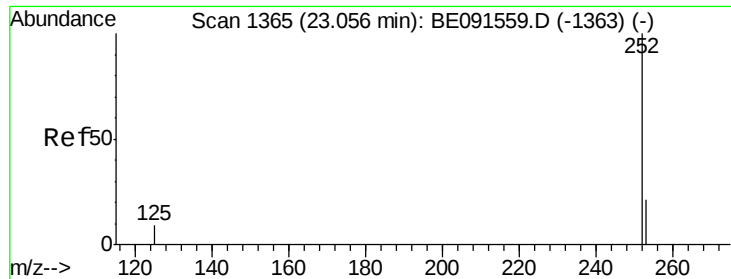
Tot Ion:264 Resp: 318145
Ion Ratio Lower Upper
264 100
260 26.2 20.1 30.1
265 21.3 18.3 27.5



#29
Benzo(b)fluoranthene
Concen: 0.06 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Tgt Ion:252 Resp: 4695
Ion Ratio Lower Upper
252 100
253 74.3 18.7 28.1#
125 62.2 9.8 14.6#

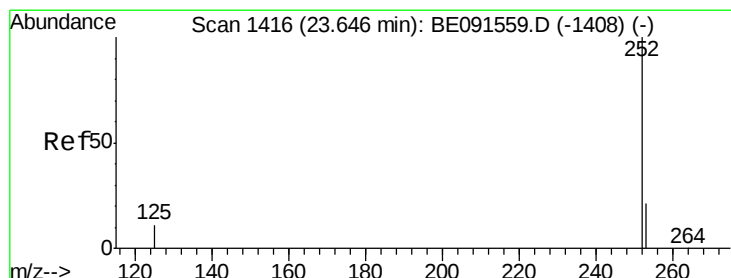
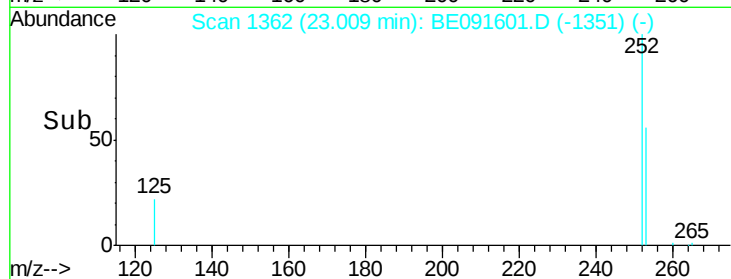
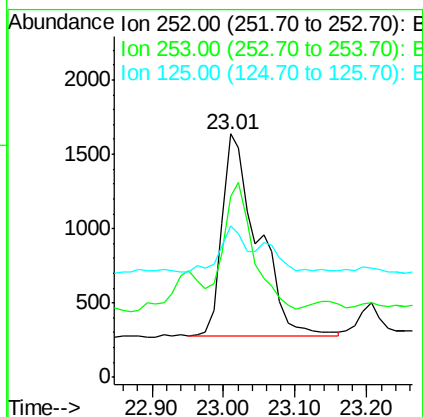
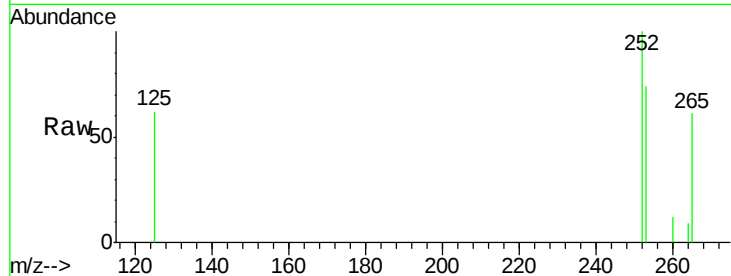




#30
Benzo(k)fluoranthene
Concen: 0.06 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.07 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

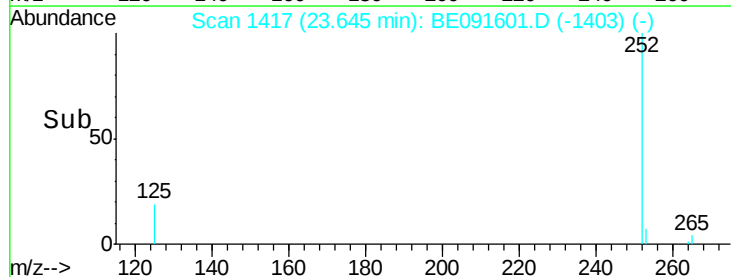
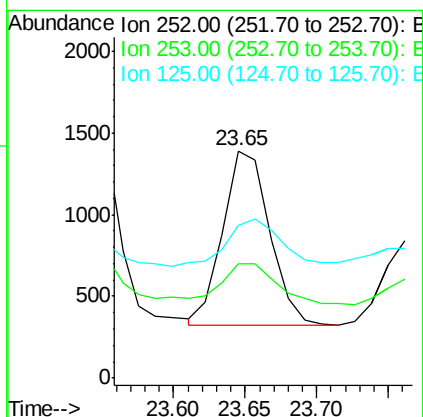
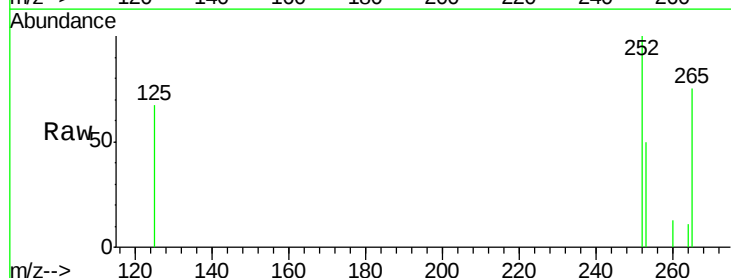
Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-002

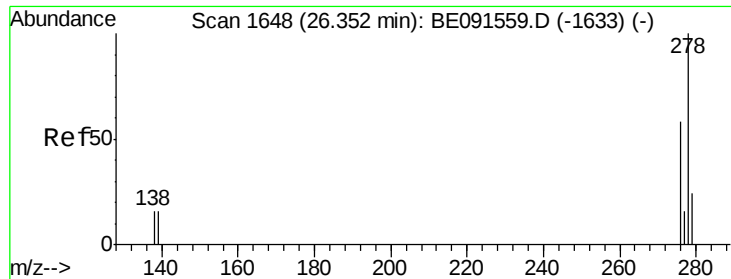
Tot Ion:252 Resp: 4730
Ion Ratio Lower Upper
252 100
253 74.3 20.2 30.4#
125 62.2 9.4 14.2#



#31
Benzo(a)pyrene
Concen: 0.03 ng
RT: 23.65 min Scan# 1417
Delta R.T. -0.03 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Tgt Ion:252 Resp: 2405
Ion Ratio Lower Upper
252 100
253 50.4 19.4 29.0#
125 66.9 11.4 17.2#

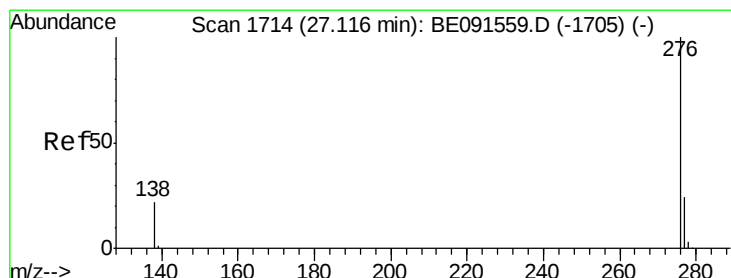
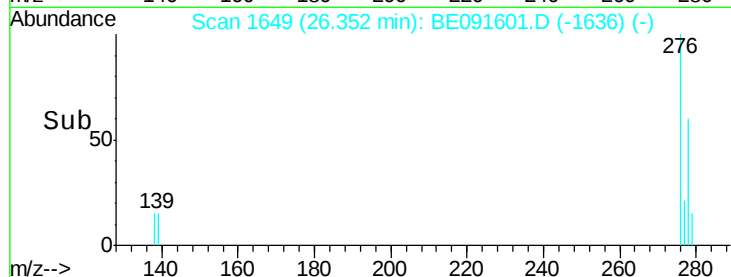
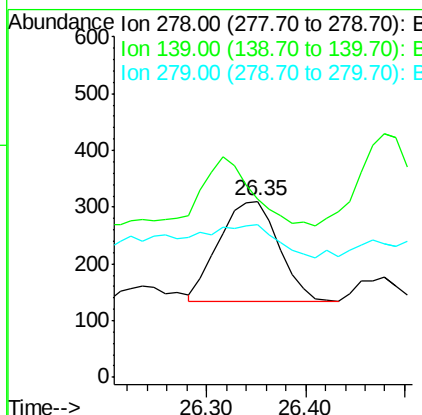
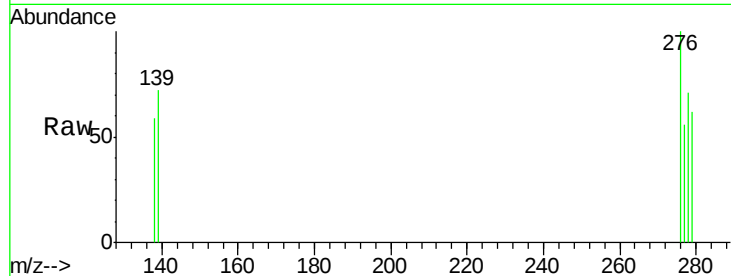




#32
Dibenzo(a,h)anthracene
Concen: 0.01 ng
RT: 26.35 min Scan# 1649
Delta R.T. -0.05 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-002

Tot Ion:278 Resp: 745
Ion Ratio Lower Upper
278 100
139 101.6 14.2 21.4#
279 87.1 19.6 29.4#



#33
Benzo(g,h,i)perylene
Concen: 0.04 ng
RT: 27.12 min Scan# 1715
Delta R.T. -0.05 min
Lab File: BE091601.D
Acq: 1 Apr 2016 21:51

Tgt Ion:276 Resp: 2907
Ion Ratio Lower Upper
276 100
277 39.9 19.4 29.2#
138 39.4 18.2 27.4#

