

Data Path : Z:\HPCHEM1\BNA E\DATA\BE090916\
 Data File : BE092366.D
 Acq On : 9 Sep 2016 22:07
 Operator : UM/SJ
 Sample : H4728-02
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-3-8-STONE-003

Manual Integrations
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Quant Time: Sep 12 11:14:47 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE090216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Sep 02 19:34:51 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.16	152	9435	5.00	ng	-0.02
7) Naphthalene-d8	10.95	136	42442	5.00	ng	0.00
12) Acenaphthene-d10	14.82	164	25199	5.00	ng	0.00
18) Phenanthrene-d10	17.58	188	57080	5.00	ng	0.02
24) Chrysene-d12	21.75	240	94400	5.00	ng	0.00
31) Perylene-d12	24.11	264	84463	5.00	ng	0.02
System Monitoring Compounds						
4) 2-Fluorophenol	5.68	112	16377	7.30	ng	-0.01
5) Phenol-d6	7.34	99	22567	7.54	ng	-0.02
8) Nitrobenzene-d5	9.34	82	9684	3.18	ng	-0.02
13) 2,4,6-Tribromophenol	16.31	330	5382	6.90	ng	-0.01
14) 2-Fluorobiphenyl	13.44	172	24176	3.13	ng	0.00
26) Terphenyl-d14	20.17	244	40436	2.90	ng	0.00
Target Compounds						
9) Naphthalene	11.01	128	391	0.04	ng	# 59
11) 2-Methylnaphthalene	12.65	142	228	0.04	ng	# 88
15) Acenaphthylene	14.54	152	1343	0.03	ng	100
16) Acenaphthene	14.88	154	211	0.03	ng	79
17) Fluorene	15.87	166	280	0.03	ng	# 97
19) Hexachlorobenzene	16.89	284	87	0.03	ng	# 63
21) Phenanthrene	17.60	178	762	0.05	ng	97
22) Anthracene	17.72	178	424	0.03	ng	100
23) Fluoranthene	19.61	202	3380	0.05	ng	97
25) Pyrene	19.97	202	3719	0.04	ng	# 90
27) Benzo(a)anthracene	21.72	228	5624m	0.06	ng	
29) Bis(2-ethylhexyl)phthalate	21.63	149	2699	0.23	ng	# 73
30) Indeno(1,2,3-cd)pyrene	26.62	276	3993	0.04	ng	98
32) Benzo(b)fluoranthene	23.38	252	1066	0.05	ng	# 31
33) Benzo(k)fluoranthene	23.43	252	898	0.04	ng	# 37
34) Benzo(a)pyrene	24.01	252	831	0.04	ng	# 25
35) Dibenzo(a,h)anthracene	26.63	278	791	0.04	ng	# 43
36) Benzo(g,h,i)perylene	27.38	276	3762	0.05	ng	# 64

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

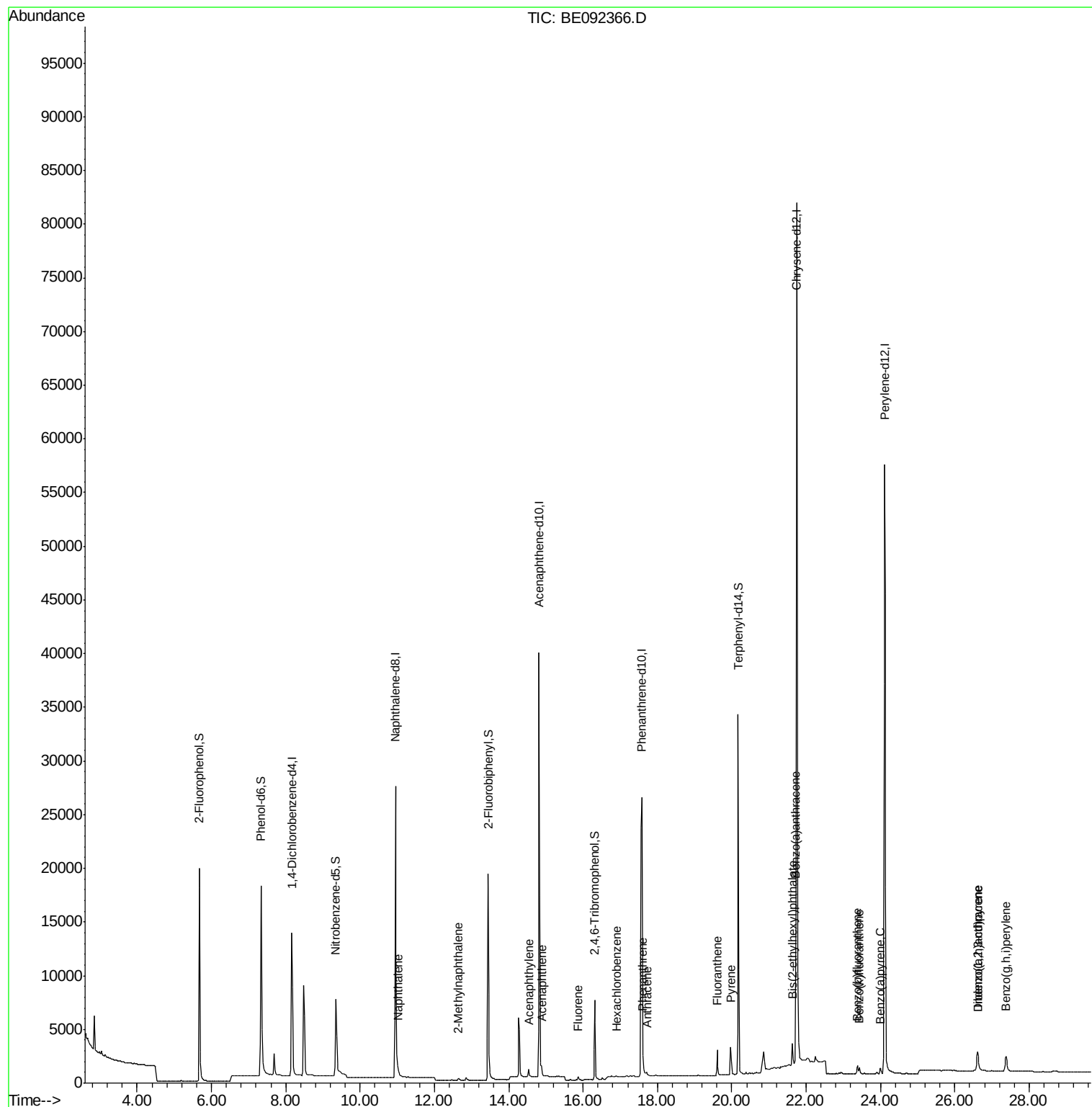
Data Path : Z:\HPCHEM1\BNA E\DATA\BE090916\
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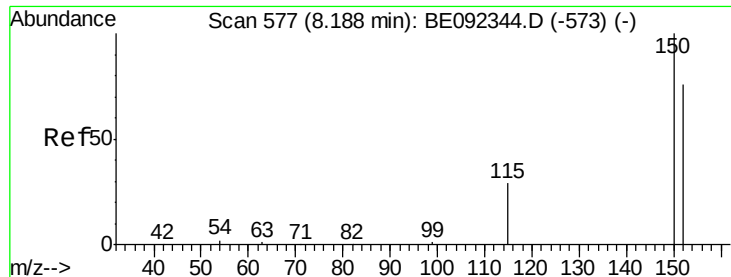
Instrument :
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QLast Update : Fri Sep 02 19:34:51 2016
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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.16 min Scan# 576

Delta R.T. -0.02 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Instrument :

BNA_E

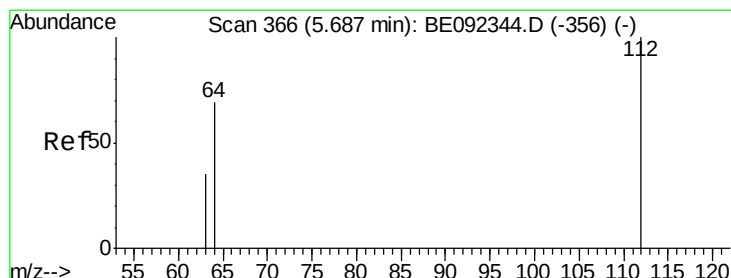
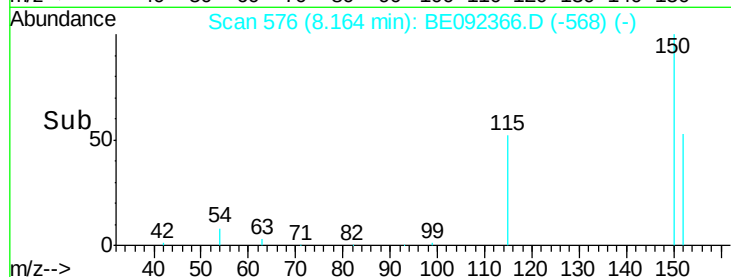
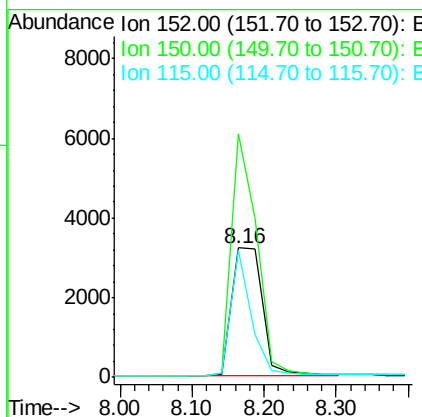
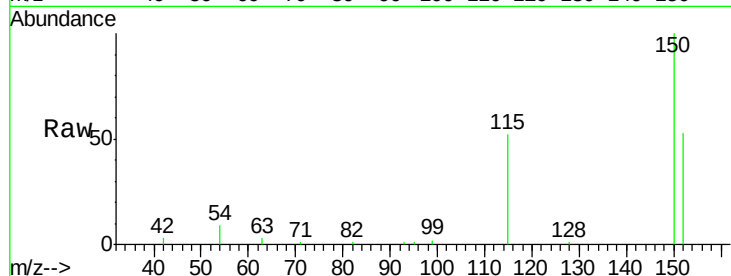
ClientSampleId :

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Tot Ion:	152	Resp:	9435
Ion Ratio	Lower	Upper	
152	100		
150	187.9	106.0	159.0#
115	98.5	31.2	46.8#

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#4

2-Fluorophenol

Concen: 7.30 ng

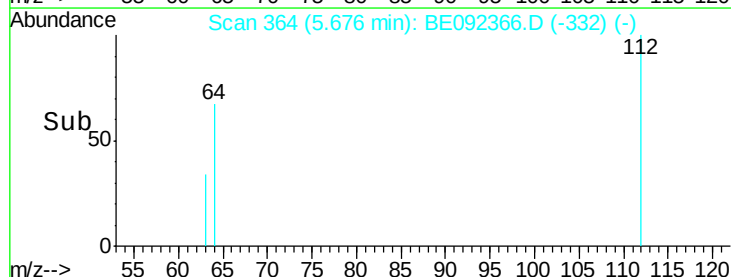
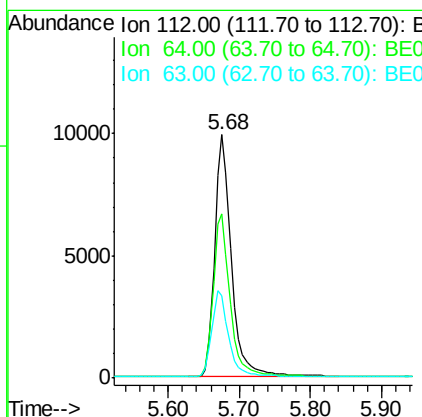
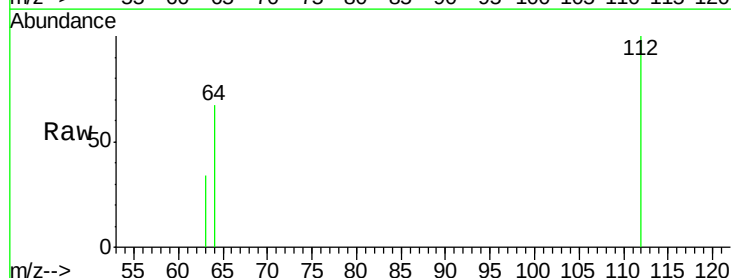
RT: 5.68 min Scan# 364

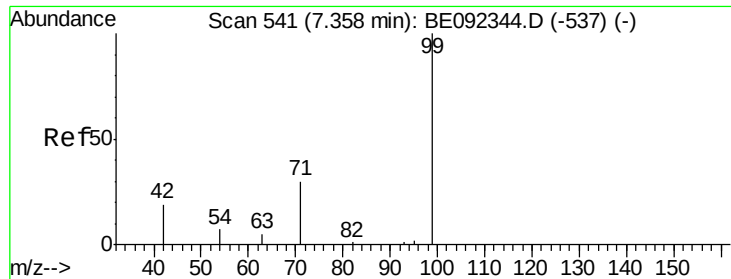
Delta R.T. -0.01 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Tgt Ion:	112	Resp:	16377
Ion Ratio	Lower	Upper	
112	100		
64	68.2	53.5	80.3
63	36.2	27.9	41.9





#5

Phenol-d6

Concen: 7.54 ng

RT: 7.34 min Scan# 540

Delta R.T. -0.02 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Instrument :

BNA_E

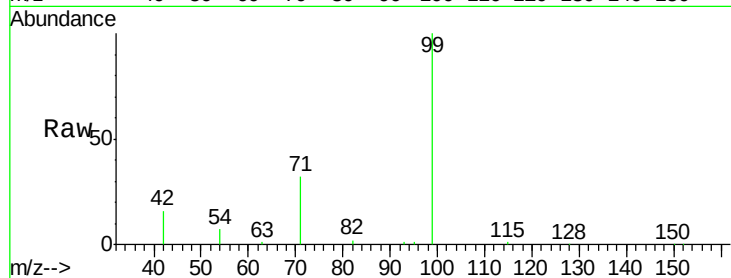
ClientSampleId :

TILCON-MH-3-8-STONE-003

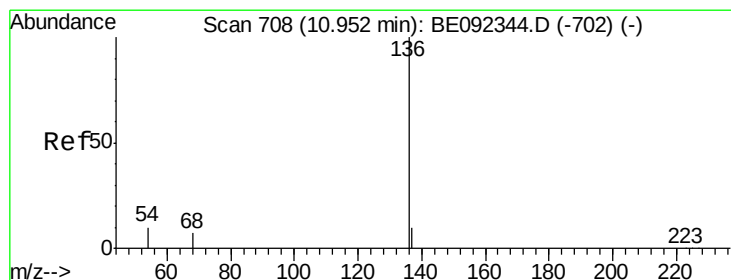
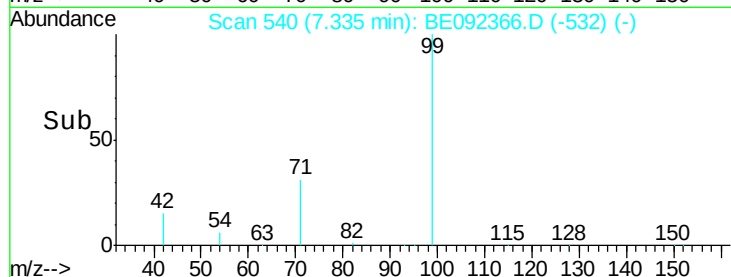
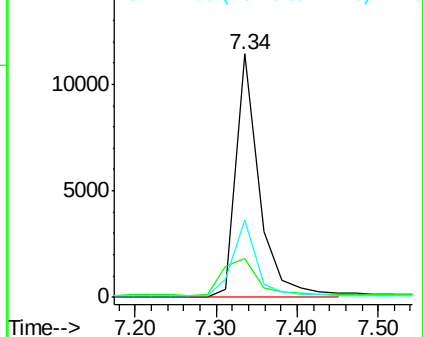
Tot Ion:	99	Resp:	22567
Ion Ratio	Lower	Upper	
99	100		
42	22.7	16.0	24.0
71	33.2	30.6	45.8

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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



#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.95 min Scan# 708

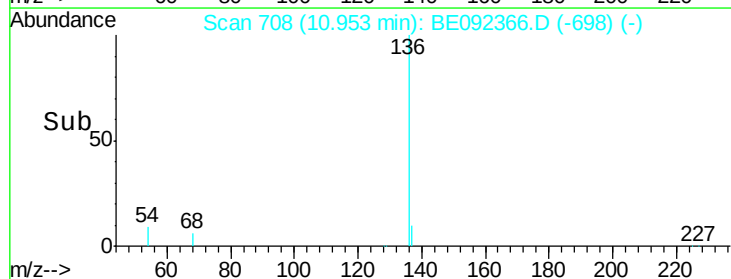
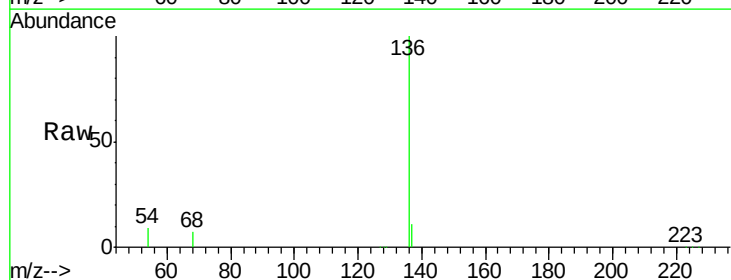
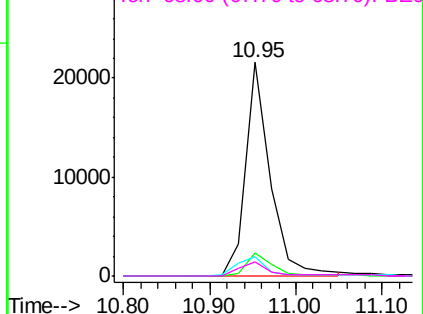
Delta R.T. 0.00 min

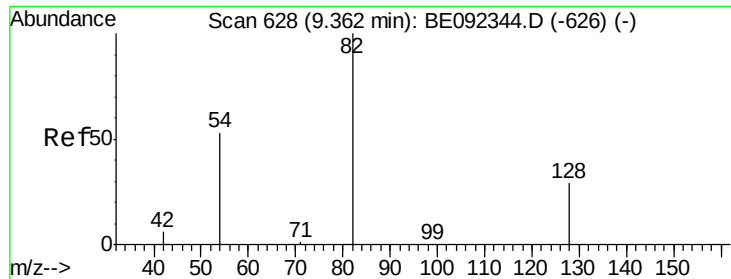
Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Tgt Ion:	136	Resp:	42442
Ion Ratio	Lower	Upper	
136	100		
137	10.7	8.2	12.4
54	9.2	9.6	14.4#
68	6.7	6.7	10.1

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





#8

Nitrobenzene-d5

Concen: 3.18 ng

RT: 9.34 min Scan# 627

Delta R.T. -0.02 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Instrument :

BNA_E

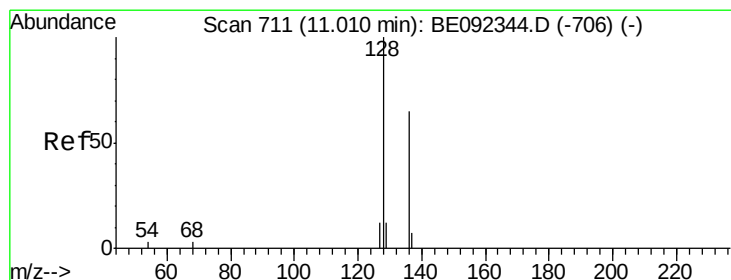
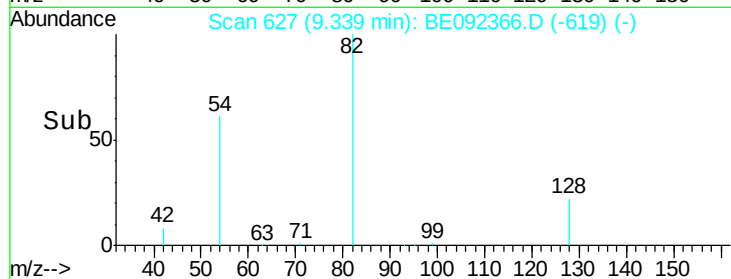
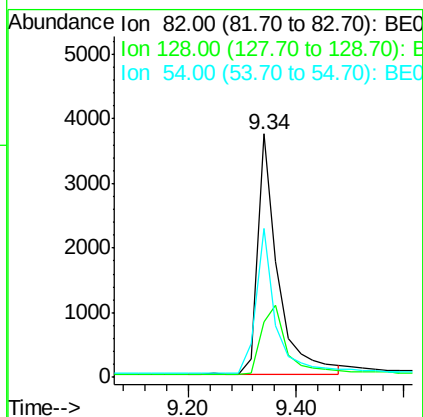
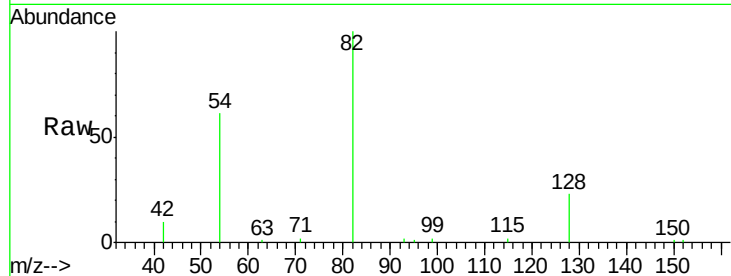
ClientSampleId :

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Tot Ion:	82	Resp:	9684
Ion Ratio	Lower	Upper	
82	100		
128	22.8	39.0	58.4#
54	61.2	44.8	67.2

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#9

Naphthalene

Concen: 0.04 ng

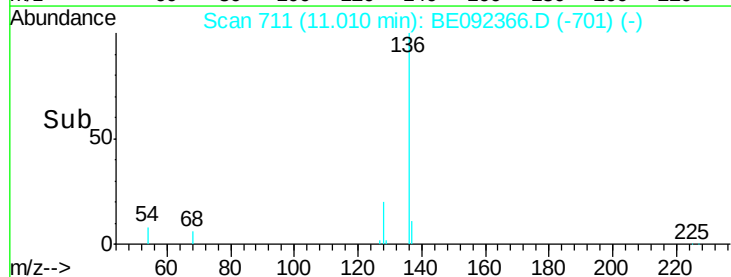
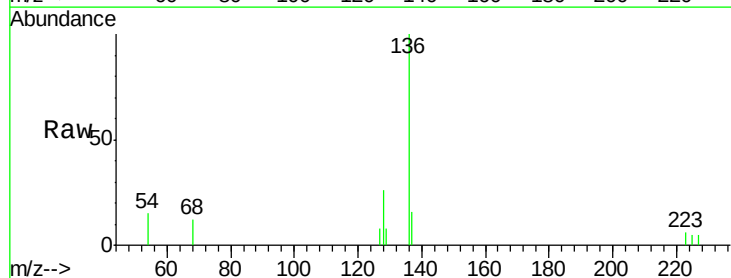
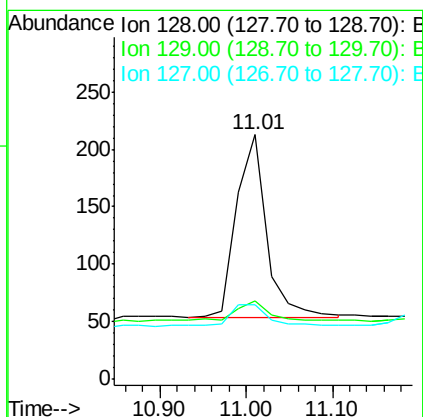
RT: 11.01 min Scan# 711

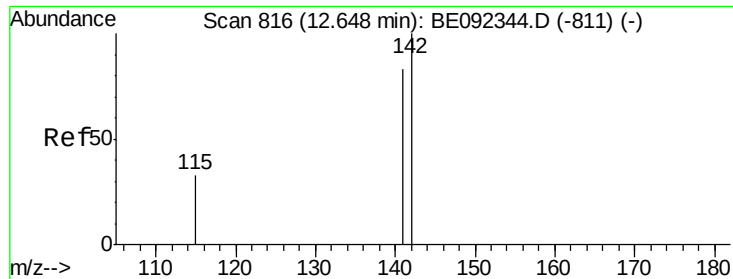
Delta R.T. 0.00 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Tgt Ion:	128	Resp:	391
Ion Ratio	Lower	Upper	
128	100		
129	31.9	11.2	16.8#
127	30.0	11.6	17.4#





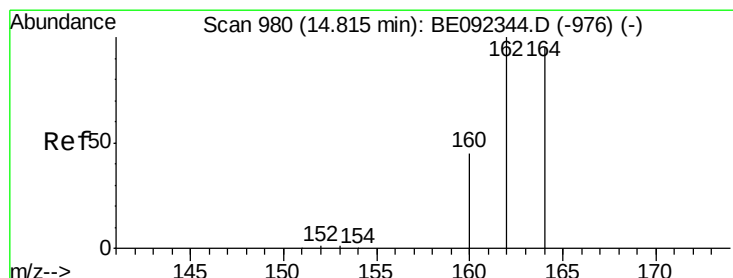
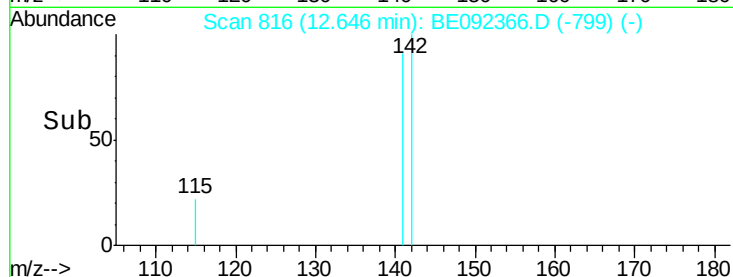
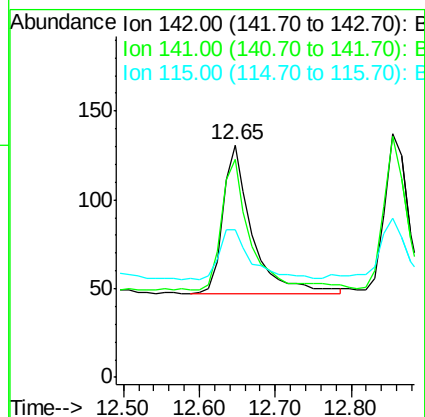
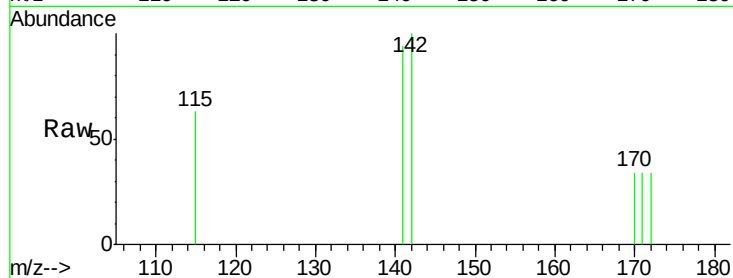
#11
2-Methylnaphthalene
Concen: 0.04 ng
RT: 12.65 min Scan# 816
Delta R.T. -0.00 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-3-8-STONE-003

Tot Ion:142 Resp: 228
Ion Ratio Lower Upper
142 100
141 93.9 73.7 110.5
115 63.4 34.0 51.0#

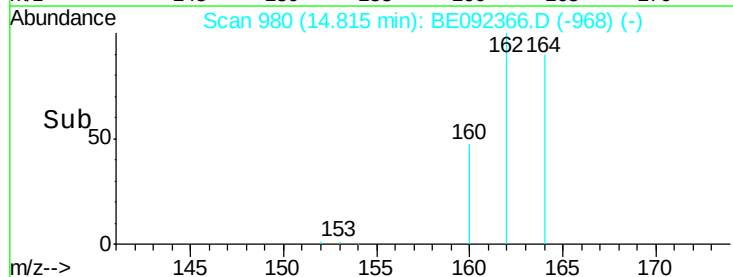
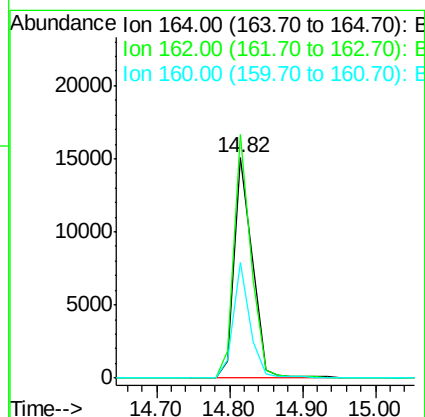
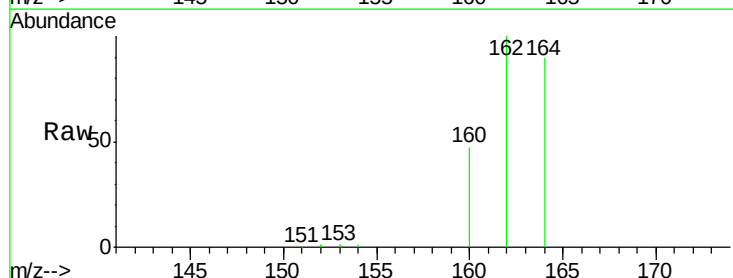
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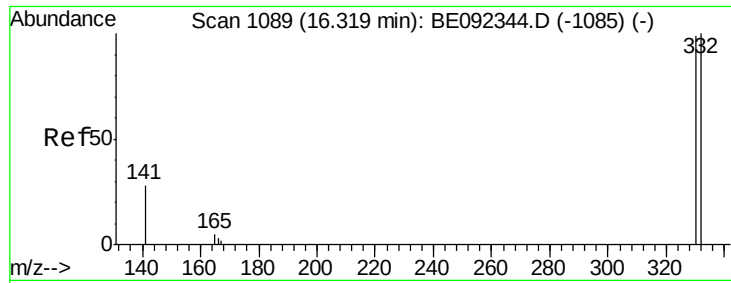
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#12
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.82 min Scan# 980
Delta R.T. -0.00 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Tgt Ion:164 Resp: 25199
Ion Ratio Lower Upper
164 100
162 110.7 71.4 107.0#
160 52.4 27.4 41.2#





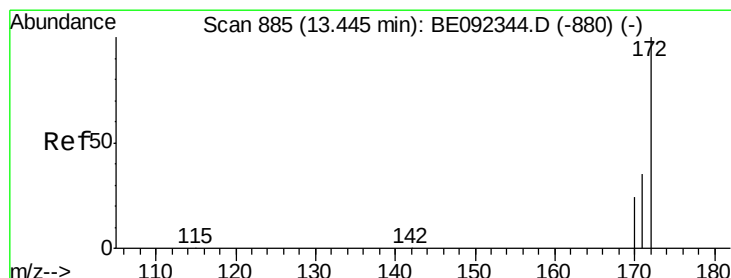
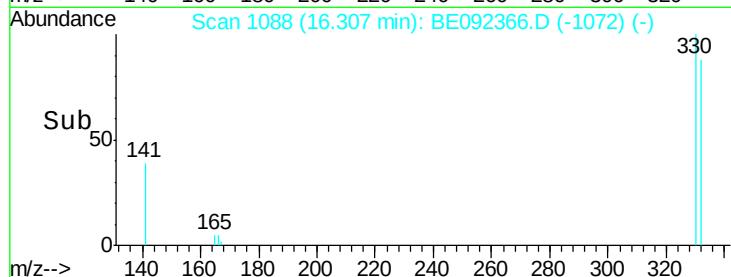
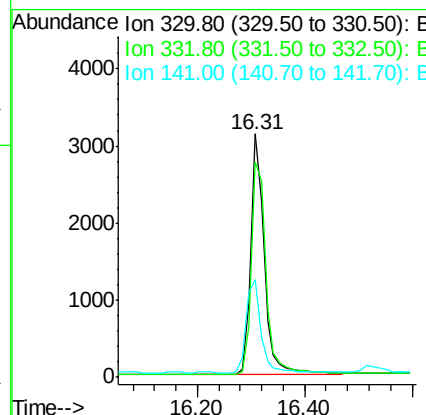
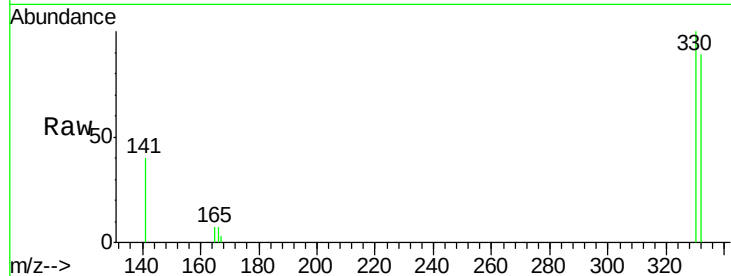
#13
 2,4,6-Tribromophenol
 Concen: 6.90 ng
 RT: 16.31 min Scan# 1088
 Delta R.T. -0.01 min
 Lab File: BE092366.D
 Acq: 9 Sep 2016 22:07

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-3-8-STONE-003

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.4	113.0
141	42.8	31.0	46.6

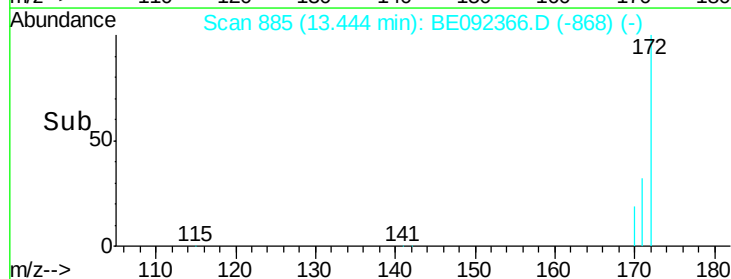
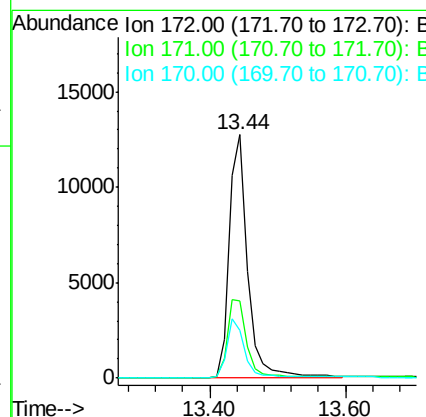
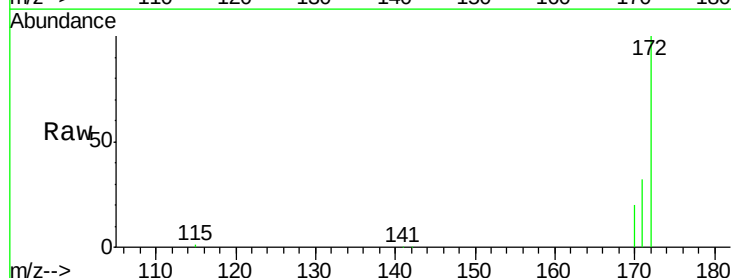
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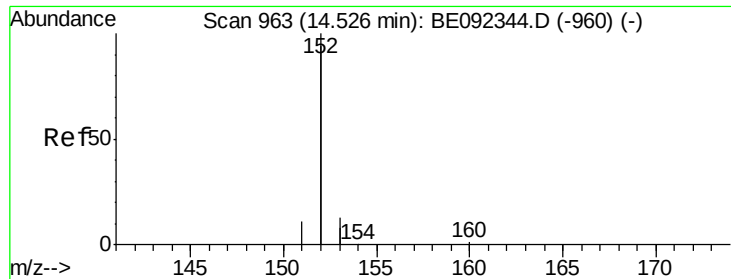
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#14
 2-Fluorobiphenyl
 Concen: 3.13 ng
 RT: 13.44 min Scan# 885
 Delta R.T. -0.00 min
 Lab File: BE092366.D
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Tgt Ion	Ratio	Lower	Upper
172	100		
171	31.9	30.1	45.1
170	19.6	21.8	32.6





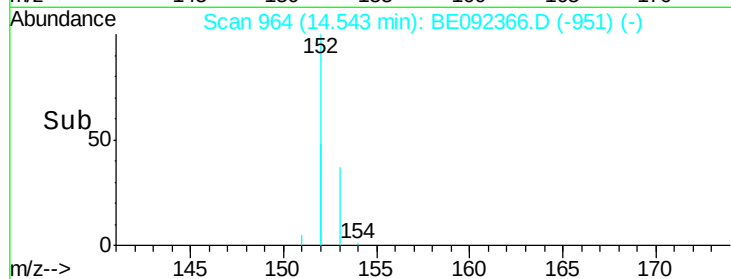
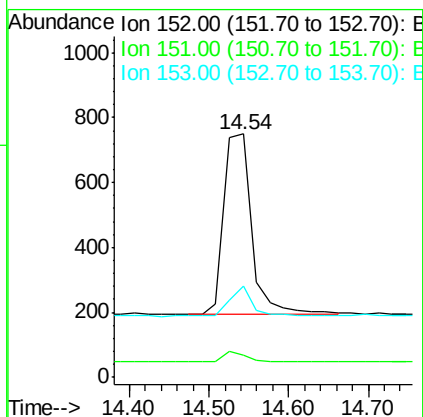
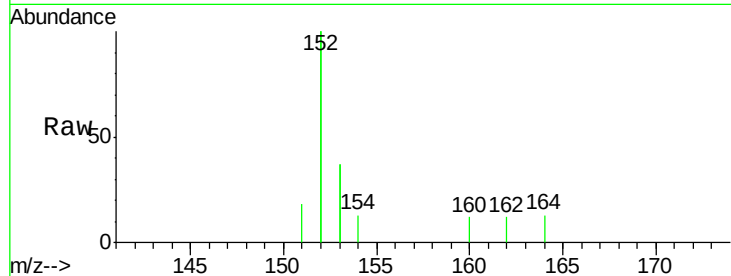
#15
Acenaphthylene
Concen: 0.03 ng
RT: 14.54 min Scan# 964
Delta R.T. 0.02 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-3-8-STONE-003

Tot Ion	Ratio	Lower	Upper
152	100		
151	5.3	3.9	5.9
153	13.0	10.4	15.6

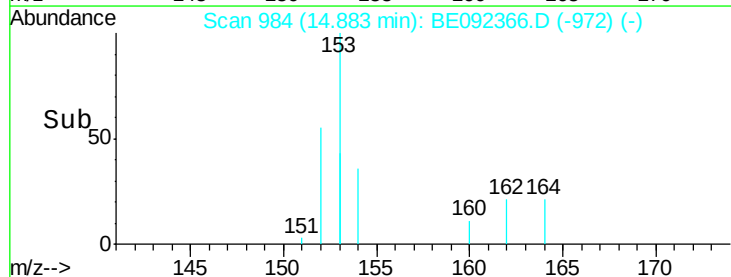
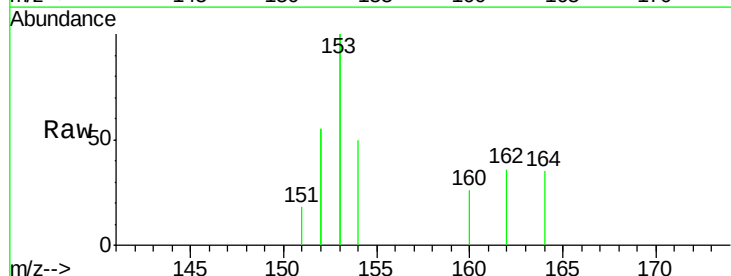
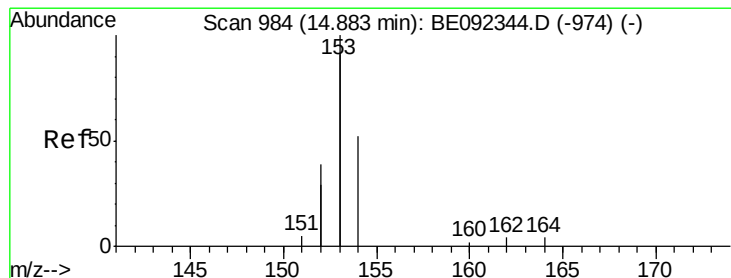
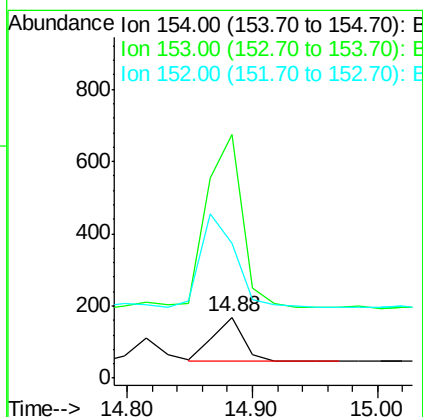
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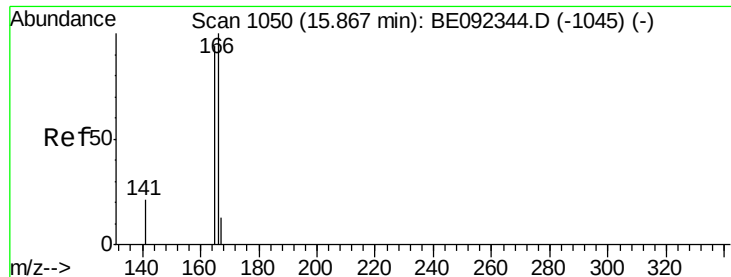
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#16
Acenaphthene
Concen: 0.03 ng
RT: 14.88 min Scan# 984
Delta R.T. -0.00 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Tgt Ion	Ratio	Lower	Upper
154	100		
153	497.2	350.8	526.2
152	238.4	171.1	256.7





#17

Fluorene

Concen: 0.03 ng

RT: 15.87 min Scan# 1050

Delta R.T. 0.00 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Instrument :

BNA_E

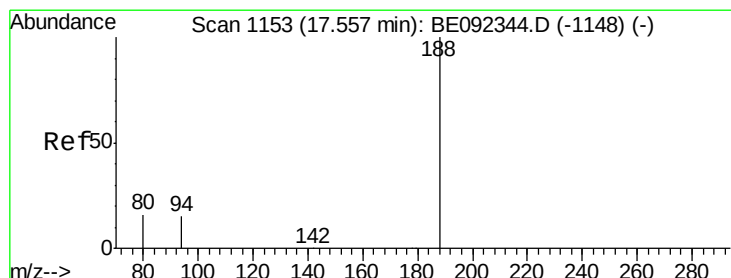
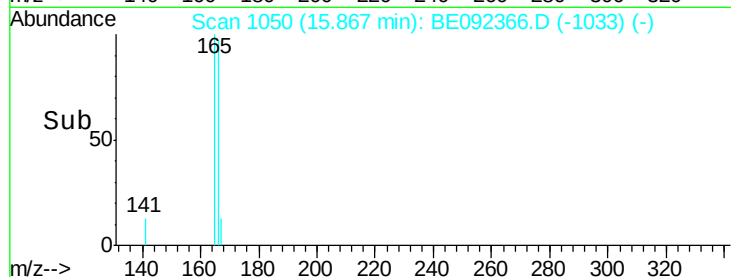
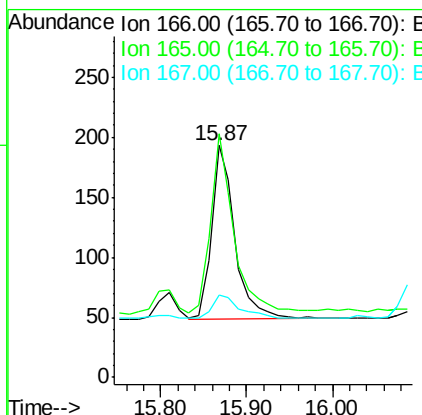
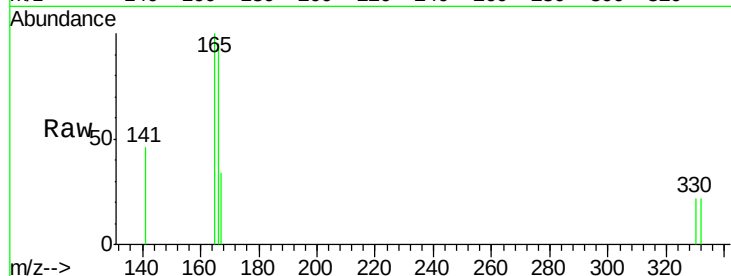
ClientSampleId :

TILCON-MH-3-8-STONE-003

Tot Ion:	166	Resp:	280
Ion Ratio	Lower	Upper	
166	100		
165	100.4	78.2	117.4
167	17.1	11.0	16.4#

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#18

Phenanthrene-d10

Concen: 5.00 ng

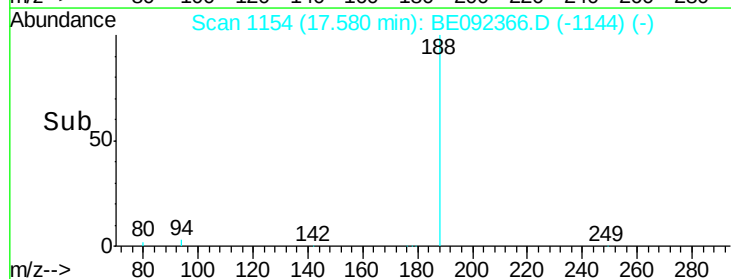
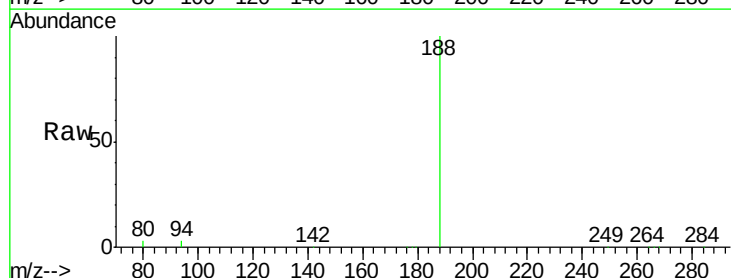
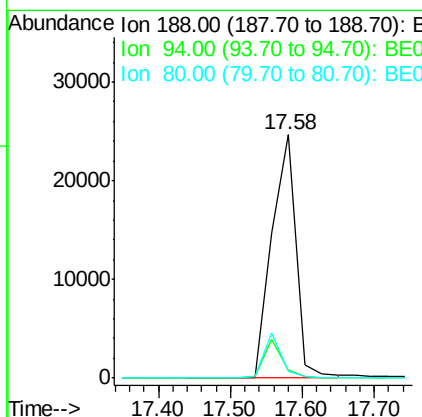
RT: 17.58 min Scan# 1154

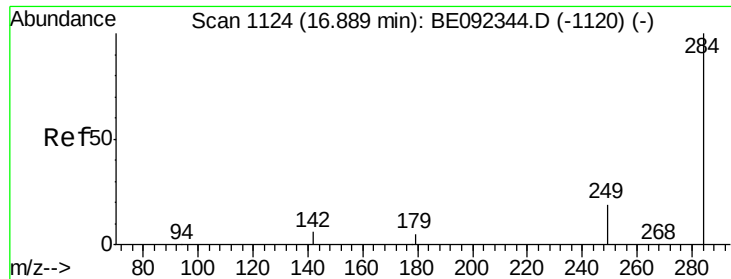
Delta R.T. 0.02 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Tgt Ion:	188	Resp:	57080
Ion Ratio	Lower	Upper	
188	100		
94	3.2	3.2	4.8#
80	2.7	2.6	3.8





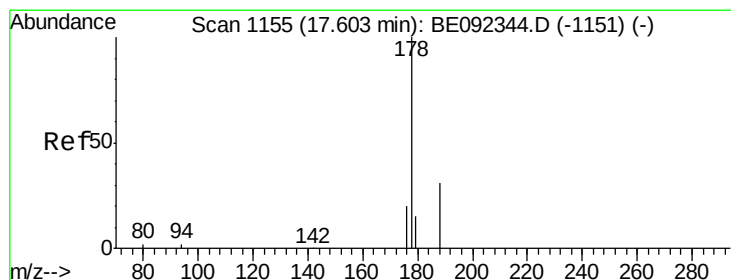
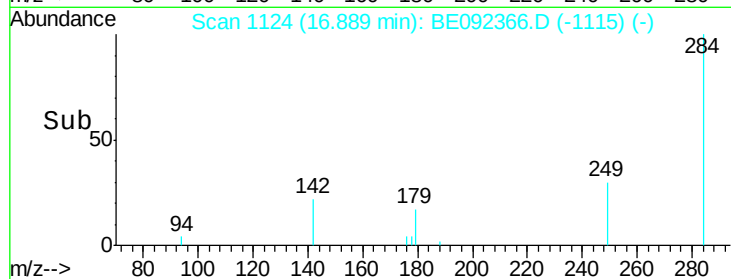
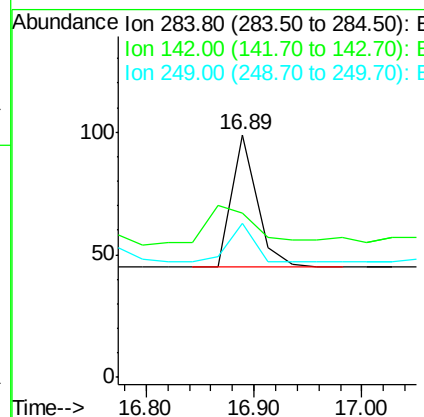
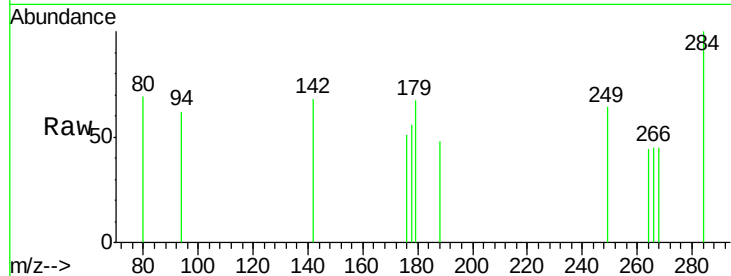
#19
Hexachlorobenzene
Concen: 0.03 ng
RT: 16.89 min Scan# 1124
Delta R.T. 0.00 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-3-8-STONE-003

Tot Ion	Ratio	Lower	Upper
284	100		
142	0.0	29.1	43.7#
249	28.7	27.9	41.9

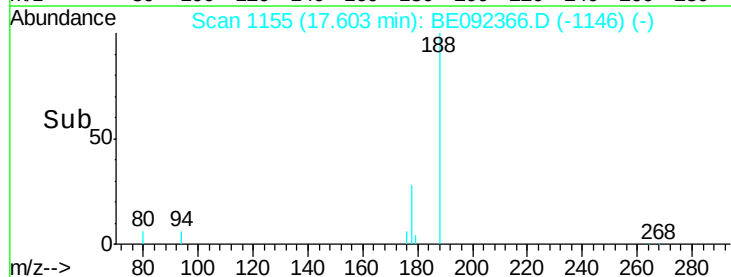
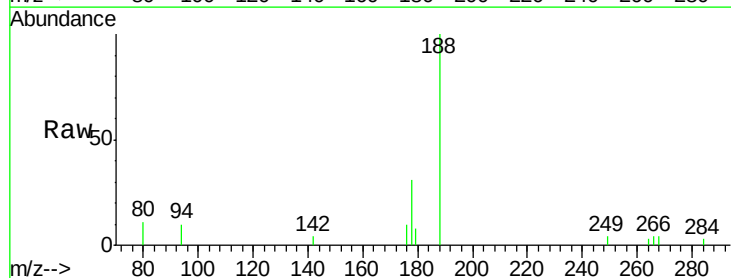
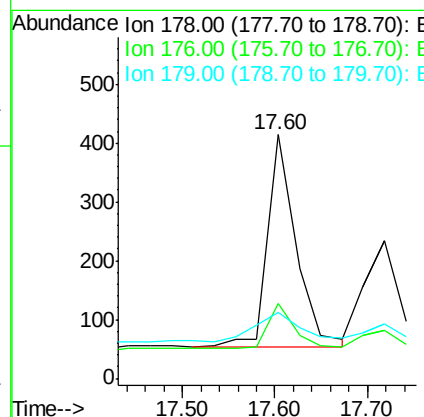
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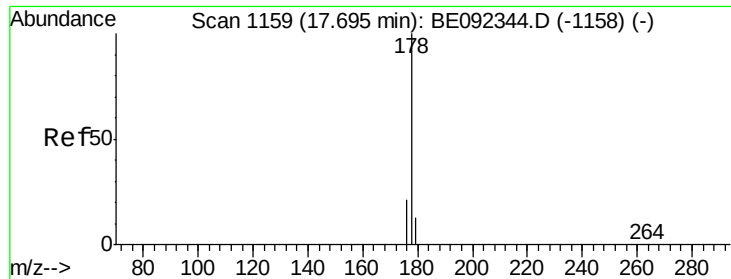
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#21
Phenanthrene
Concen: 0.05 ng
RT: 17.60 min Scan# 1155
Delta R.T. 0.00 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.8
179	22.2	16.0	24.0





#22

Anthracene

Concen: 0.03 ng

RT: 17.72 min Scan# 1160

Delta R.T. 0.02 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Instrument :

BNA_E

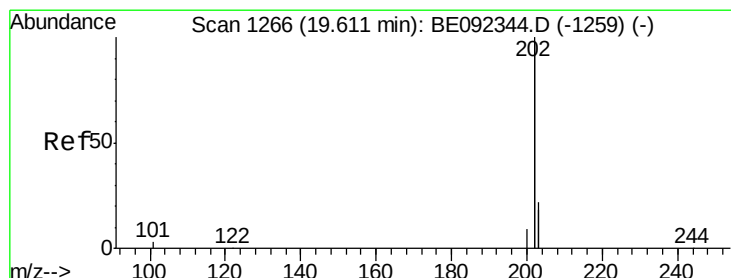
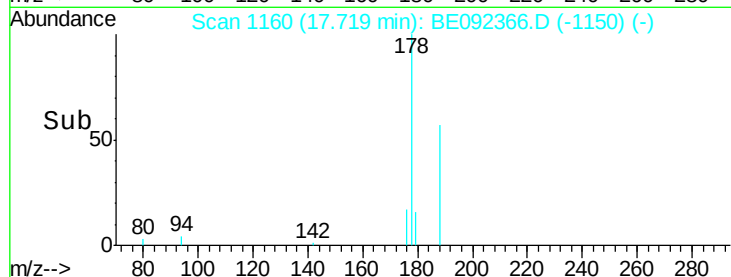
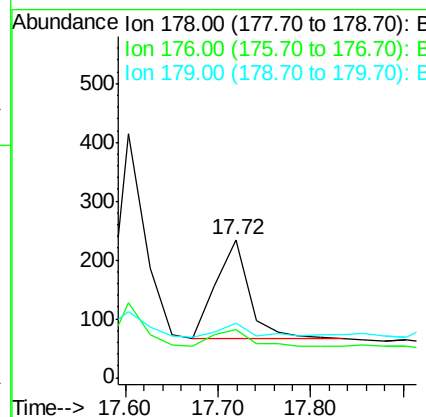
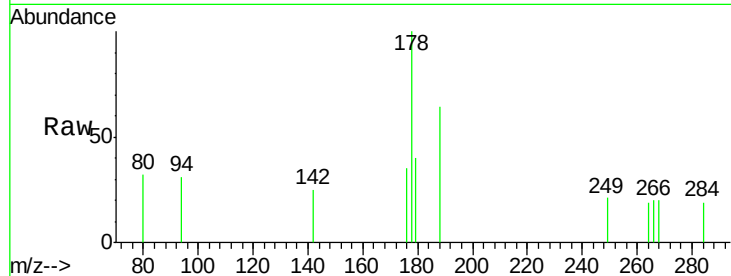
ClientSampleId :

TILCON-MH-3-8-STONE-003

Tot Ion:178	Resp:	424
Ion Ratio	Lower	Upper
178	100	
176	18.6	15.0 22.4
179	15.3	12.2 18.2

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#23

Fluoranthene

Concen: 0.05 ng

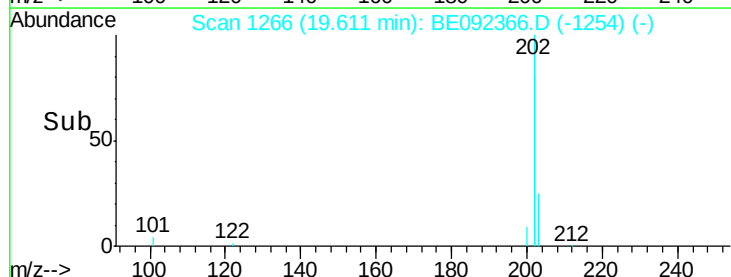
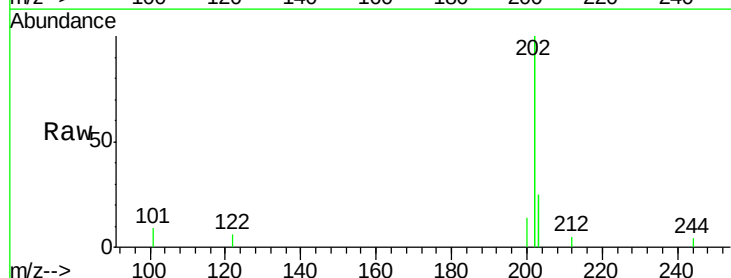
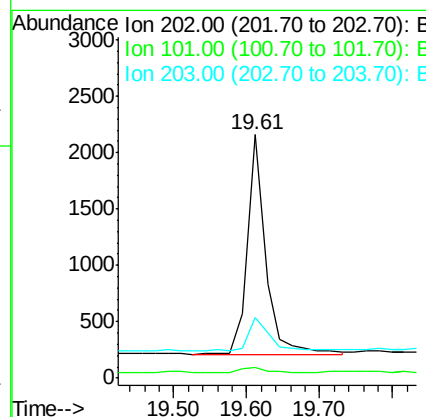
RT: 19.61 min Scan# 1266

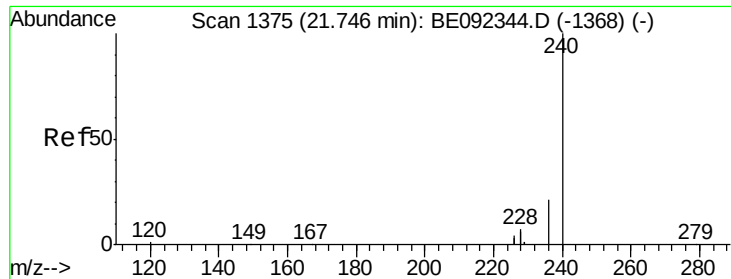
Delta R.T. 0.00 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Tgt Ion:202	Resp:	3380
Ion Ratio	Lower	Upper
202	100	
101	2.6	2.2 3.4
203	18.4	13.7 20.5





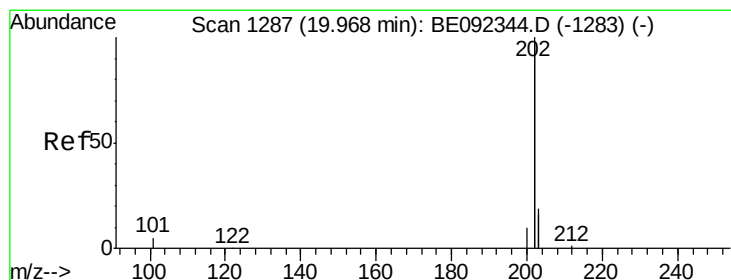
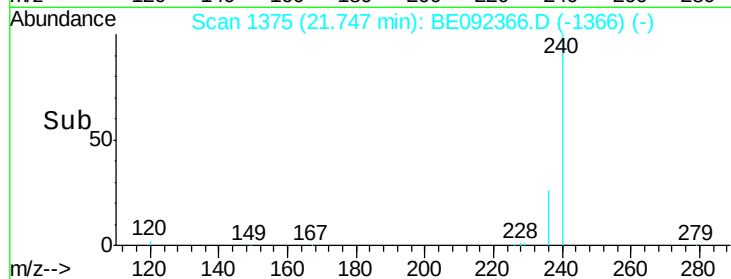
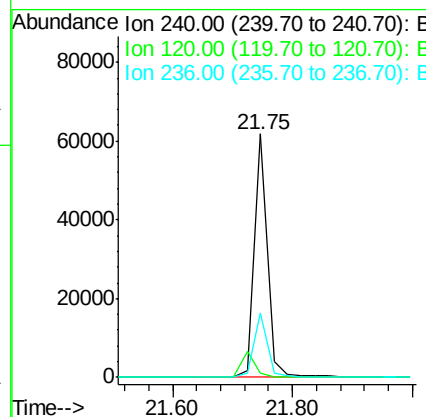
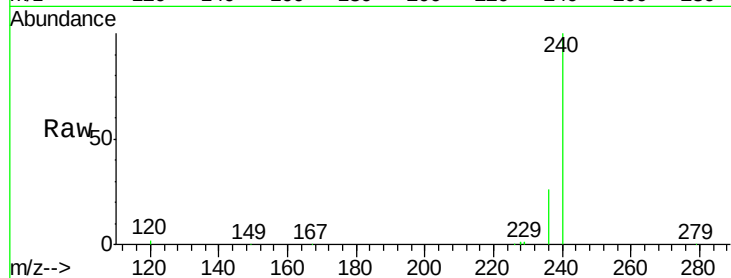
#24
Chrysene-d12
Concen: 5.00 ng
RT: 21.75 min Scan# 1375
Delta R.T. 0.00 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-3-8-STONE-003

Tot Ion	Ratio	Lower	Upper
240	100		
120	1.7	2.6	4.0#
236	26.4	24.6	37.0

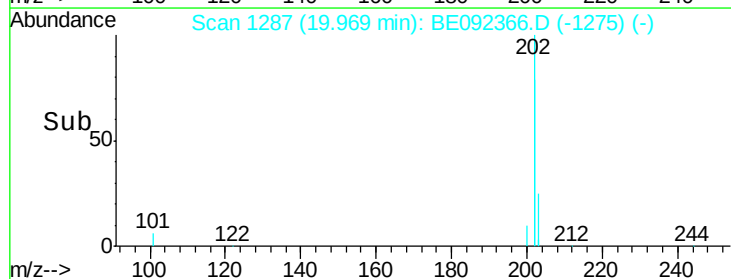
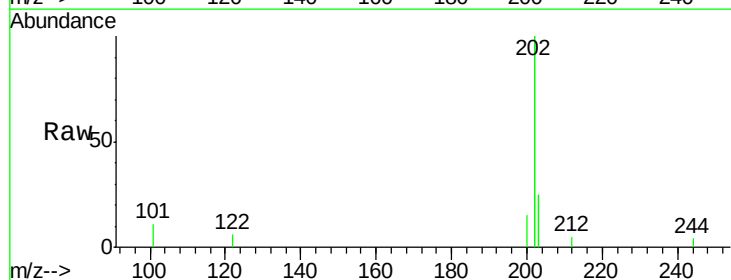
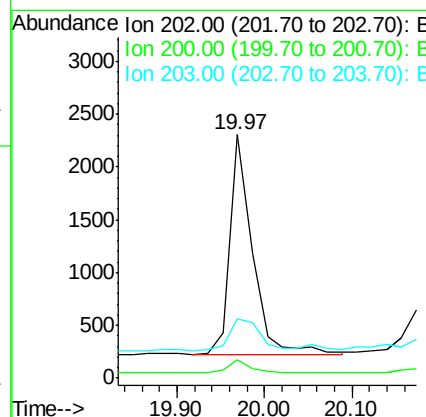
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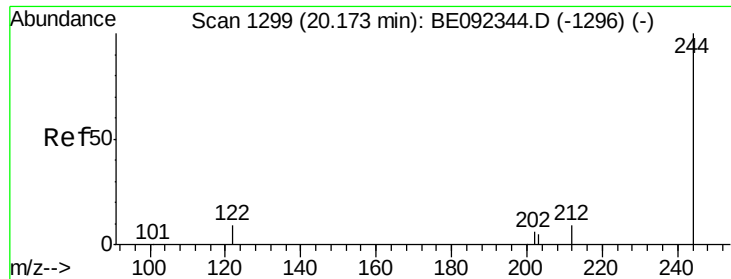
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#25
Pyrene
Concen: 0.04 ng
RT: 19.97 min Scan# 1287
Delta R.T. 0.00 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Tgt Ion	Ratio	Lower	Upper
202	100		
200	5.5	4.2	6.4
203	23.0	13.9	20.9#





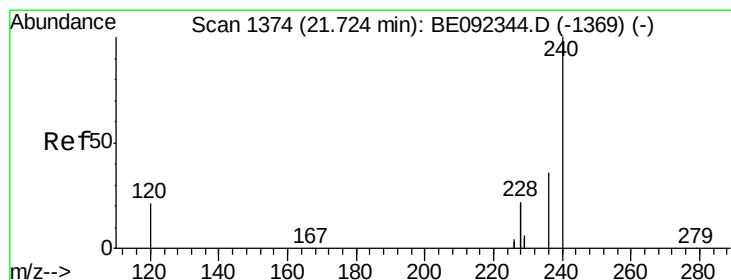
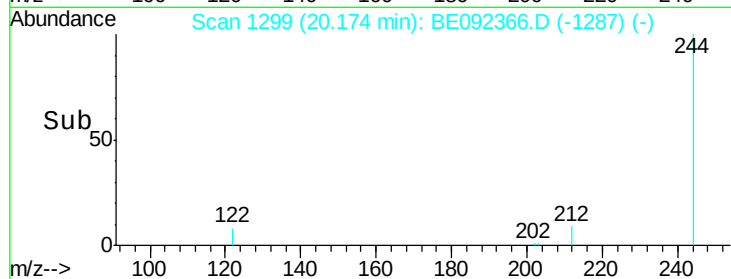
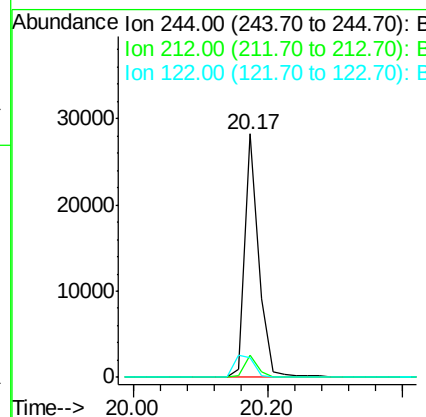
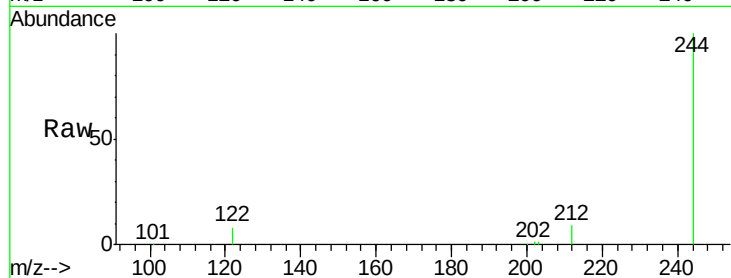
#26
 Terphenyl-d14
 Concen: 2.90 ng
 RT: 20.17 min Scan# 1299
 Delta R.T. 0.00 min
 Lab File: BE092366.D
 Acq: 9 Sep 2016 22:07

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-3-8-STONE-003

Tot Ion	Ratio	Lower	Upper
244	100		
212	9.3	6.7	10.1
122	8.2	3.6	5.4

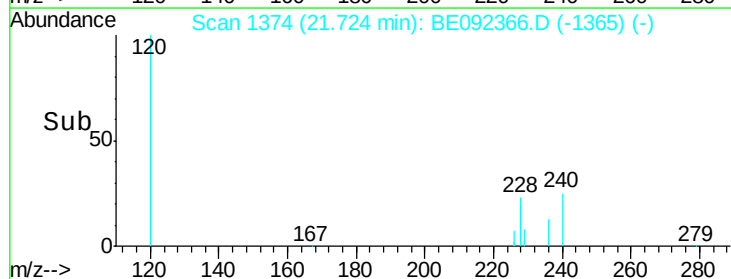
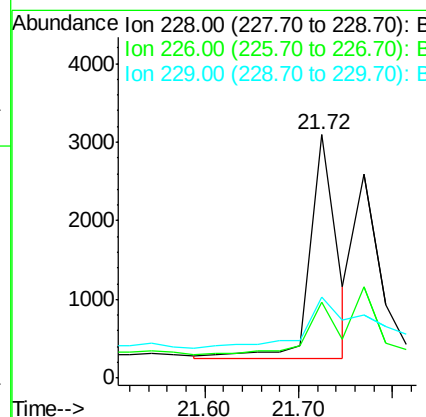
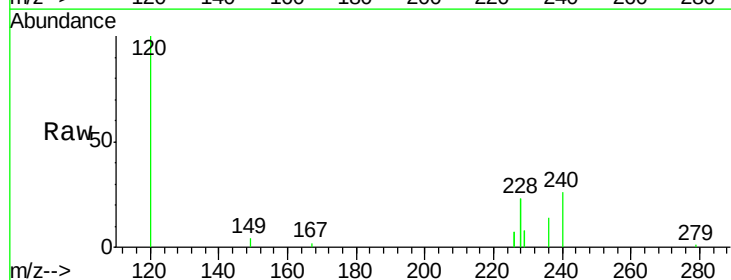
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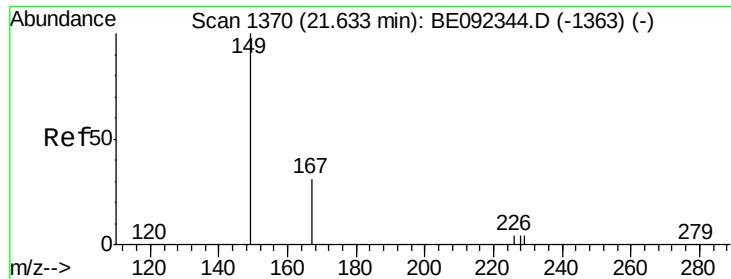
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#27
 Benzo(a)anthracene
 Concen: 0.06 ng m
 RT: 21.72 min Scan# 1374
 Delta R.T. 0.00 min
 Lab File: BE092366.D
 Acq: 9 Sep 2016 22:07

Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.6	35.4
229	33.1	13.3	19.9





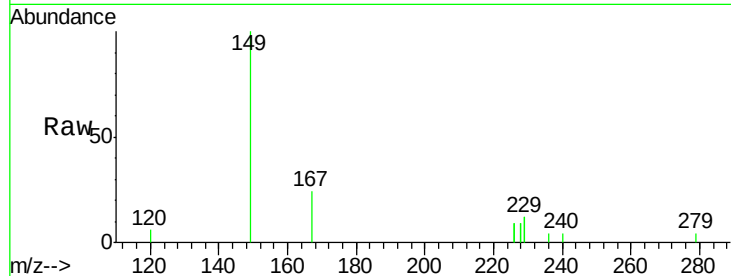
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.23 ng
 RT: 21.63 min Scan# 1370
 Delta R.T. 0.00 min
 Lab File: BE092366.D
 Acq: 9 Sep 2016 22:07

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-3-8-STONE-003

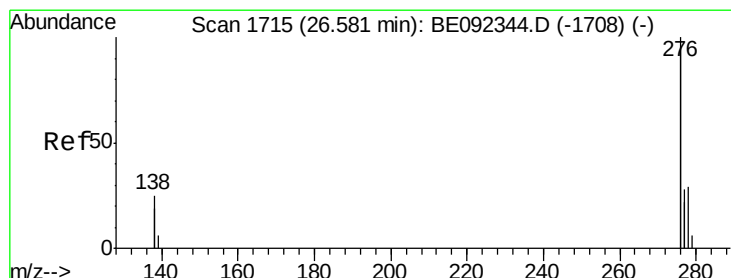
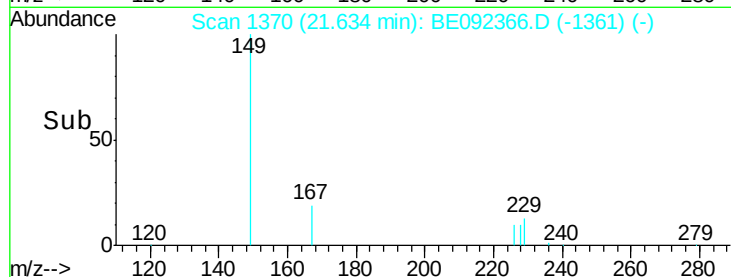
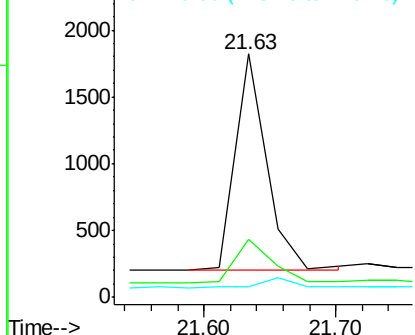
Tot Ion	Ratio	Lower	Upper
149	100		
167	24.5	16.0	24.0#
279	0.0	16.0	24.0#

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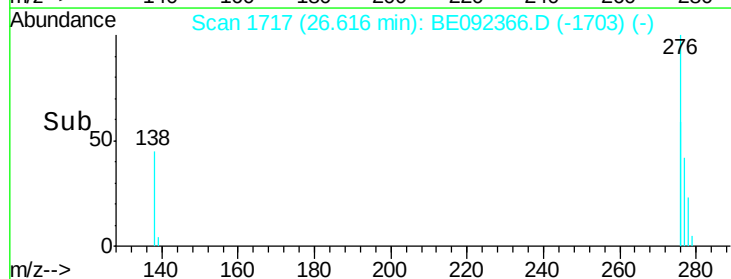
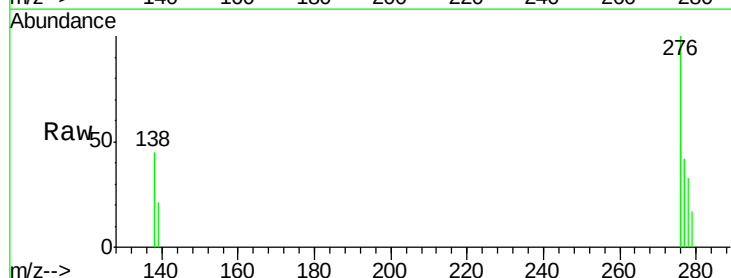
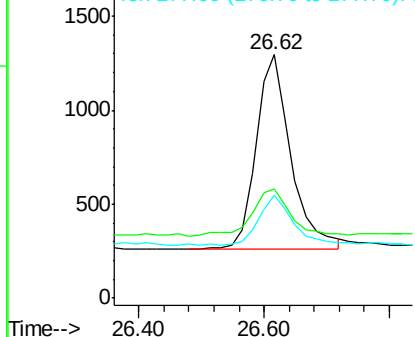
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

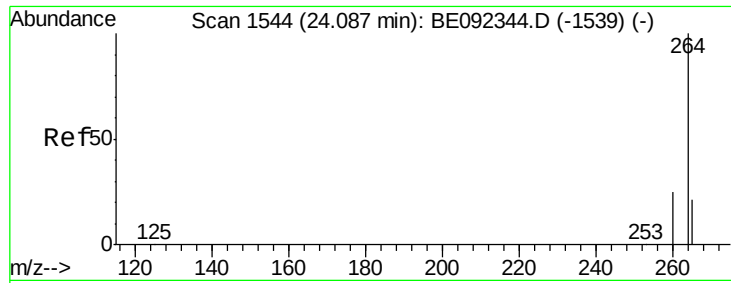


#30
 Indeno(1,2,3-cd)pyrene
 Concen: 0.04 ng
 RT: 26.62 min Scan# 1717
 Delta R.T. 0.03 min
 Lab File: BE092366.D
 Acq: 9 Sep 2016 22:07

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.3	20.3	30.5
277	25.5	19.7	29.5

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





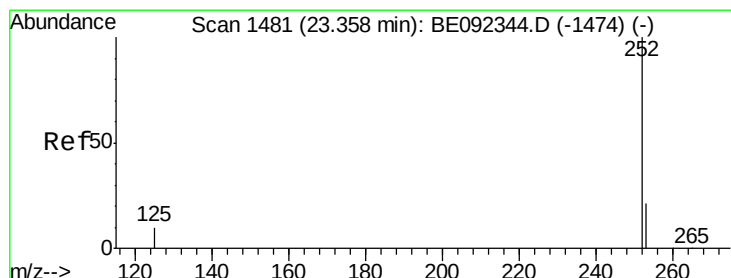
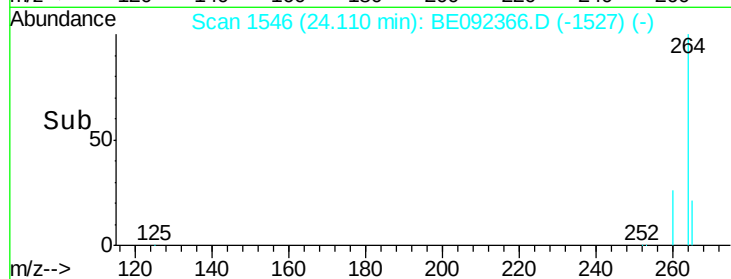
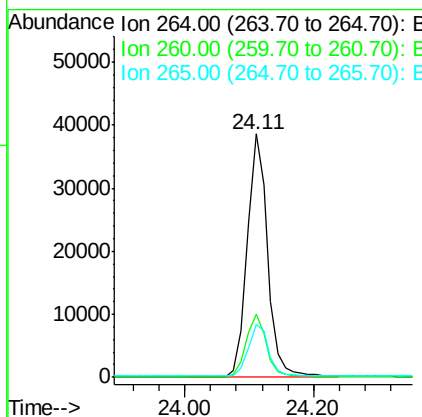
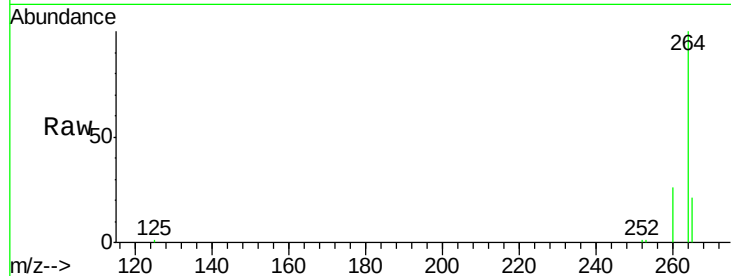
#31
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.11 min Scan# 1546
 Delta R.T. 0.02 min
 Lab File: BE092366.D
 Acq: 9 Sep 2016 22:07

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-3-8-STONE-003

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.7	20.1	30.1
265	21.5	17.9	26.9

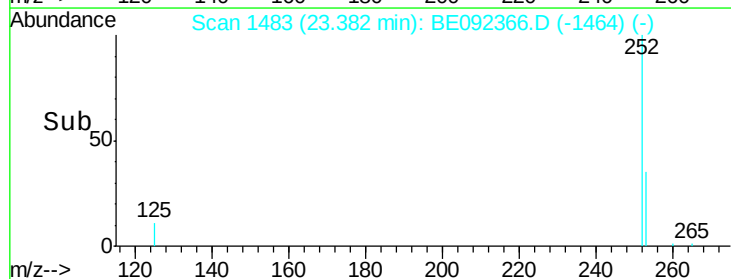
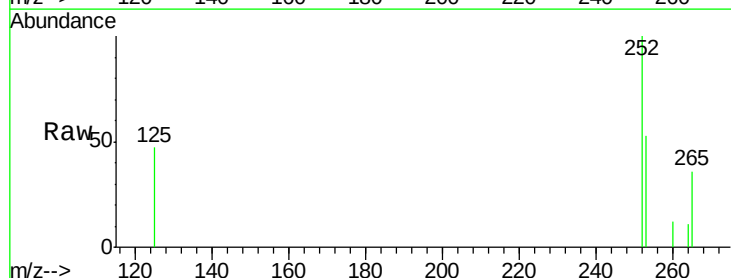
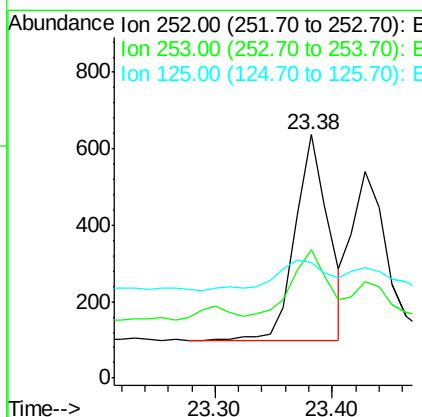
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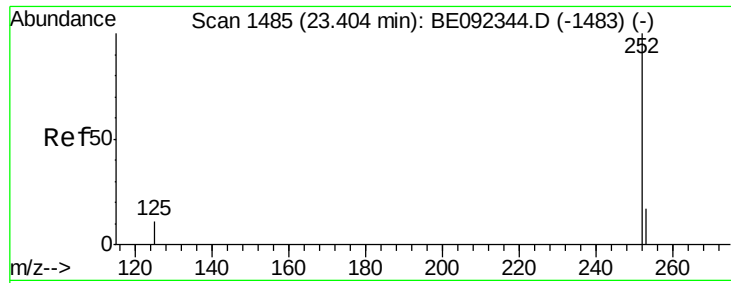
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#32
 Benzo(b)fluoranthene
 Concen: 0.05 ng
 RT: 23.38 min Scan# 1483
 Delta R.T. 0.02 min
 Lab File: BE092366.D
 Acq: 9 Sep 2016 22:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	52.7	18.7	28.1#
125	47.4	10.5	15.7#





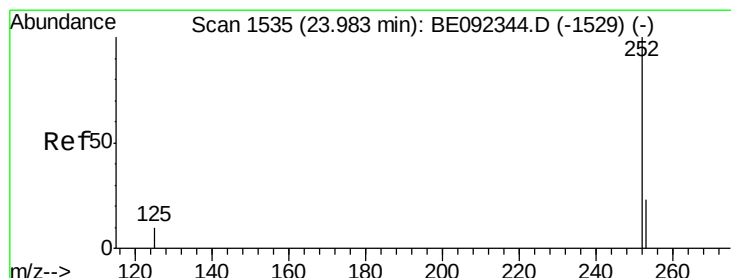
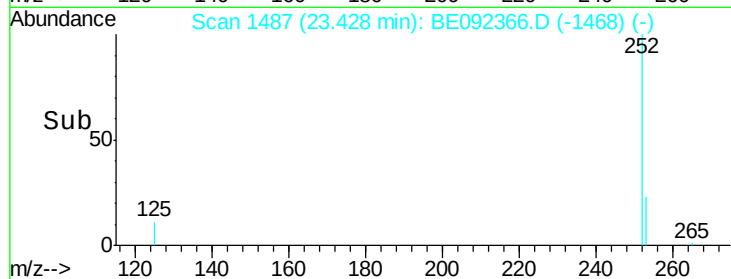
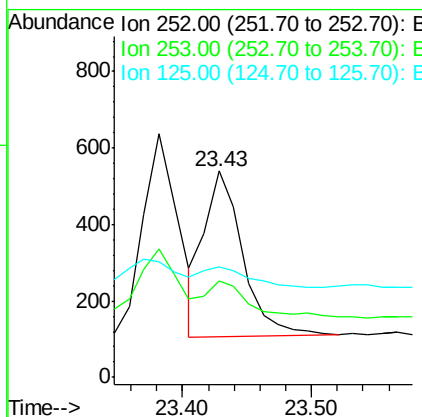
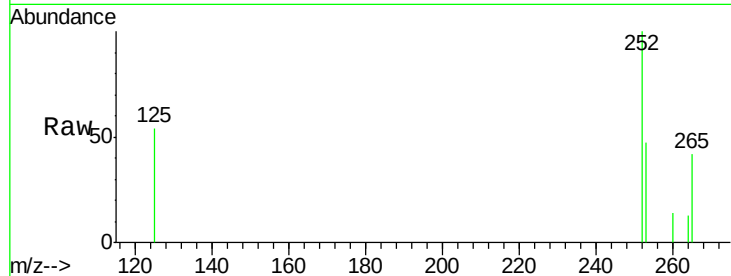
#33
Benzo(k)fluoranthene
Concen: 0.04 ng
RT: 23.43 min Scan# 1487
Delta R.T. 0.02 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-3-8-STONE-003

Tot Ion	Ratio	Lower	Upper
252	100		
253	46.9	20.3	30.5#
125	53.6	9.6	14.4#

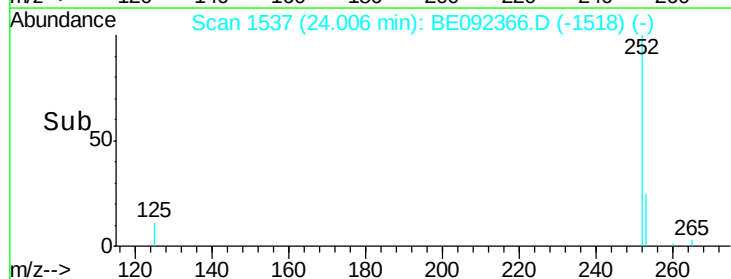
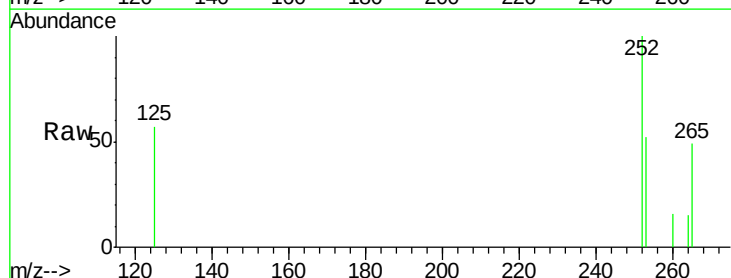
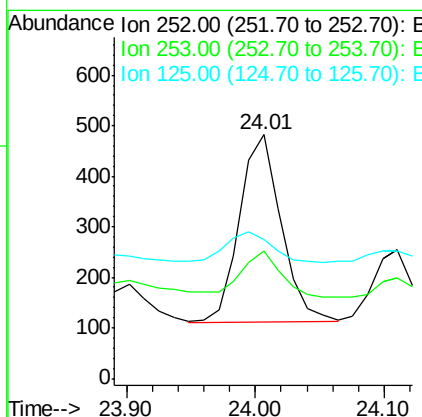
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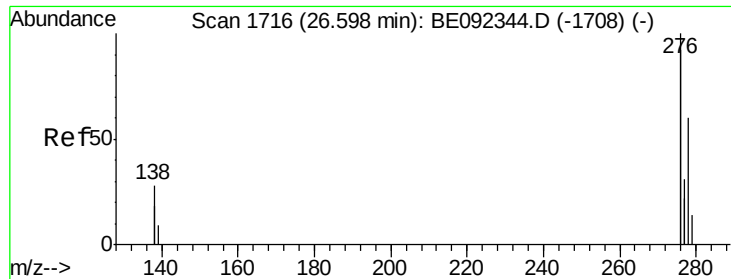
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#34
Benzo(a)pyrene
Concen: 0.04 ng
RT: 24.01 min Scan# 1537
Delta R.T. 0.02 min
Lab File: BE092366.D
Acq: 9 Sep 2016 22:07

Tgt Ion	Ratio	Lower	Upper
252	100		
253	52.3	19.0	28.6#
125	57.1	11.8	17.8#





#35

Dibenzo(a,h)anthracene

Concen: 0.04 ng

RT: 26.63 min Scan# 1718

Delta R.T. 0.03 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Instrument :

BNA_E

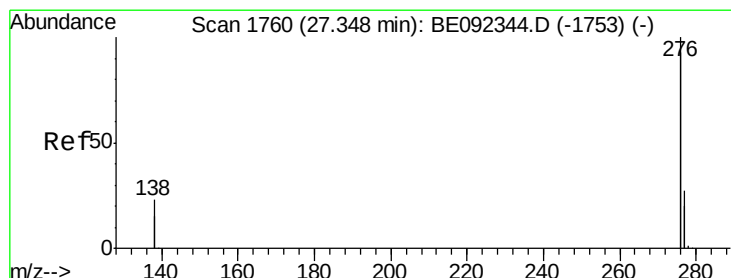
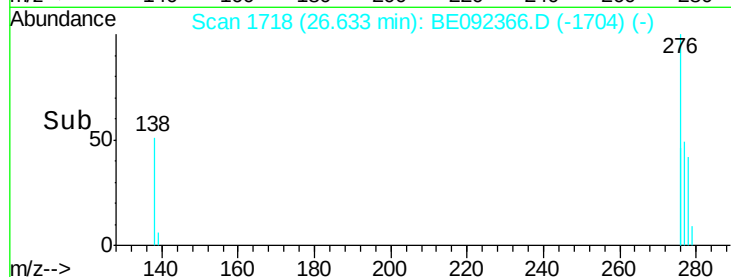
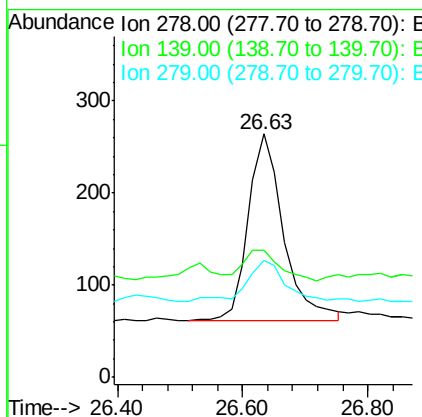
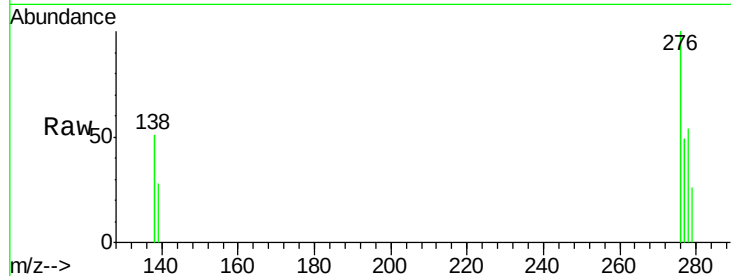
ClientSampleId :

TILCON-MH-3-8-STONE-003

Tot Ion:278	Resp:	791
Ion Ratio	Lower	Upper
278	100	
139	52.3	13.8 20.8#
279	48.1	21.4 32.2#

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#36

Benzo(g,h,i)perylene

Concen: 0.05 ng

RT: 27.38 min Scan# 1762

Delta R.T. 0.03 min

Lab File: BE092366.D

Acq: 9 Sep 2016 22:07

Tgt Ion:276	Resp:	3762
Ion Ratio	Lower	Upper
276	100	
277	42.0	19.8 29.8#
138	43.5	19.8 29.6#

