

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080116\
 Data File : BE092102.D
 Acq On : 1 Aug 2016 21:34
 Operator : UM/SJ
 Sample : H4107-02
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-SF-005

Manual Integrations
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Quant Time: Aug 02 01:24:21 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080116.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 01 17:22:55 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.18	152	13494	5.00	ng	0.00
8) Naphthalene-d8	10.97	136	69584	5.00	ng	0.00
15) Acenaphthene-d10	14.86	164	39179	5.00	ng	0.00
24) Phenanthrene-d10	17.58	188	134455	5.00	ng	0.00
31) Chrysene-d12	21.74	240	130606	5.00	ng	0.00
40) Perylene-d12	24.15	264	110192	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.70	112	19937	5.37	ng	0.00
5) Phenol-d6	7.33	99	30790	5.99	ng	0.00
9) Nitrobenzene-d5	9.35	82	17411	3.21	ng	0.00
16) 2,4,6-Tribromophenol	16.32	330	10369	4.01	ng	-0.02
17) 2-Fluorobiphenyl	13.46	172	46373	3.06	ng	0.00
34) Terphenyl-d14	20.21	244	42514	3.34	ng	0.00
Target Compounds						
12) Naphthalene	11.02	128	554	0.03	ng	# 69
14) 2-Methylnaphthalene	12.65	142	586	0.05	ng	# 85
18) Acenaphthylene	14.58	152	8452	0.10	ng	# 93
20) Acenaphthene	14.92	154	821	0.07	ng	# 99
22) Fluorene	15.89	166	2229	0.12	ng	# 96
25) 4-Bromophenyl-phenylether	16.76	248	180	0.04	ng	# 89
26) Hexachlorobenzene	16.88	284	184	0.04	ng	# 97
27) Pentachlorophenol	17.25	266	329	0.72	ng	# 95
28) Phenanthrene	17.61	178	15067m	0.41	ng	# 97
29) Anthracene	17.71	178	4252	0.16	ng	# 67
30) Fluoranthene	19.61	202	47304	0.45	ng	# 99
33) Pvrene	19.98	202	70043	0.47	ng	# 99
35) Benzo(a)anthracene	21.72	228	8441m	0.21	ng	# 95
37) Chrysene	21.76	228	5334m	0.17	ng	# 95
39) Indeno(1,2,3-cd)pyrene	26.65	276	16011	0.12	ng	# 95
41) Benzo(b)fluoranthene	23.41	252	6889m	0.20	ng	# 95
42) Benzo(k)fluoranthene	23.45	252	4384m	0.14	ng	# 95
43) Benzo(a)pyrene	24.03	252	5488	0.19	ng	# 85
44) Dibenzo(a,h)anthracene	26.67	278	1820	0.07	ng	# 70
45) Benzo(a,h,i)perylene	27.42	276	15228	0.14	ng	# 91

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

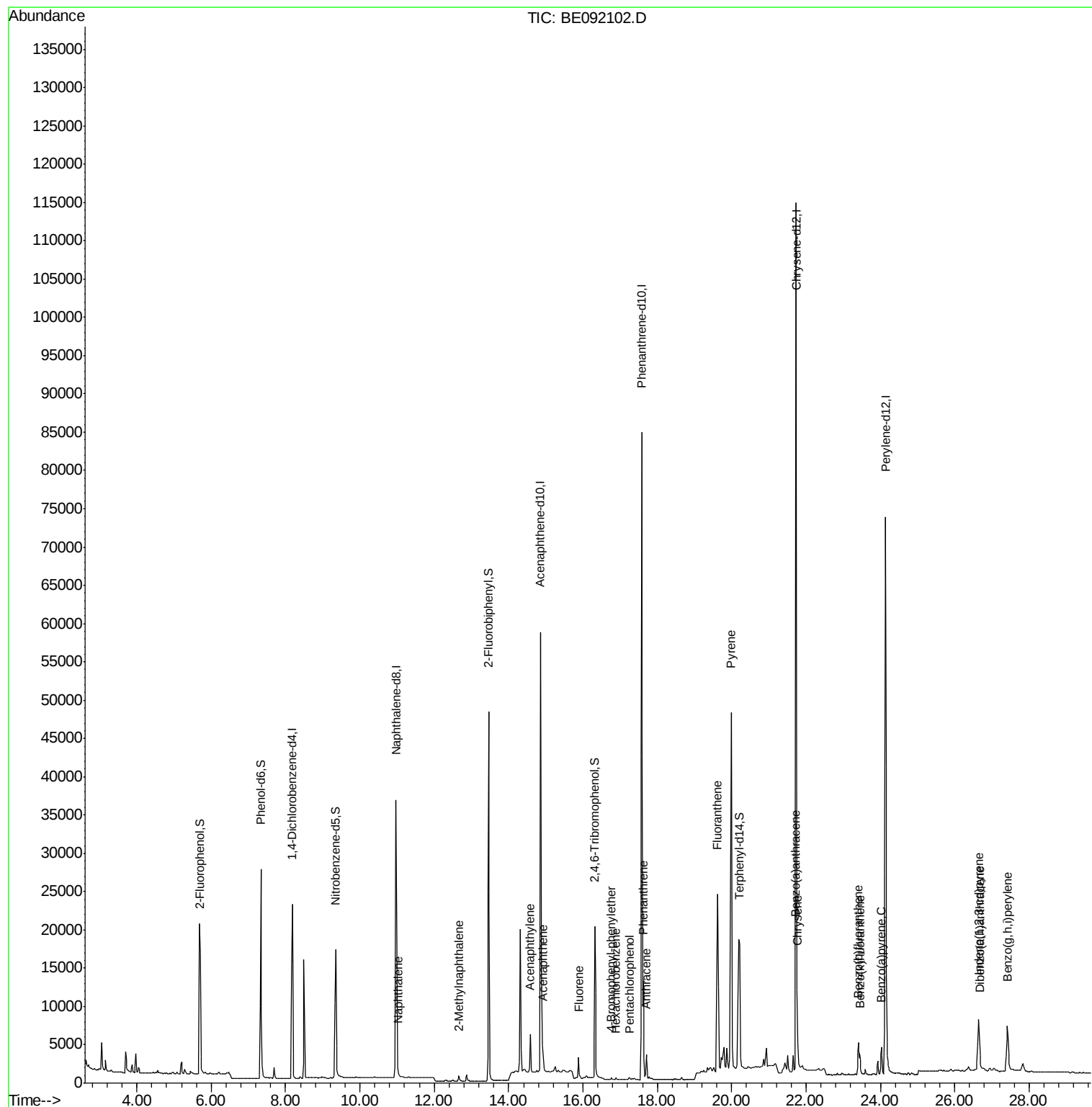
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080116\
Data File : BE092102.D
Acq On : 1 Aug 2016 21:34
Operator : UM/SJ
Sample : H4107-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

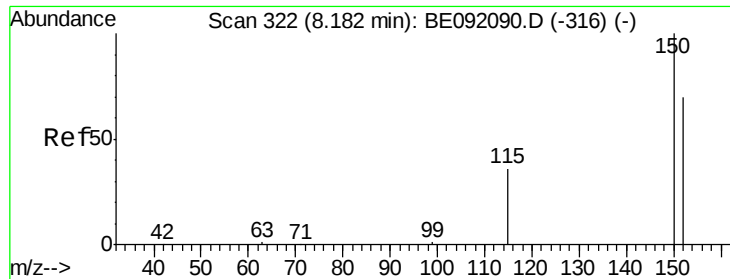
Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-005

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Quant Time: Aug 02 01:24:21 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE080116.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Aug 01 17:22:55 2016
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#1

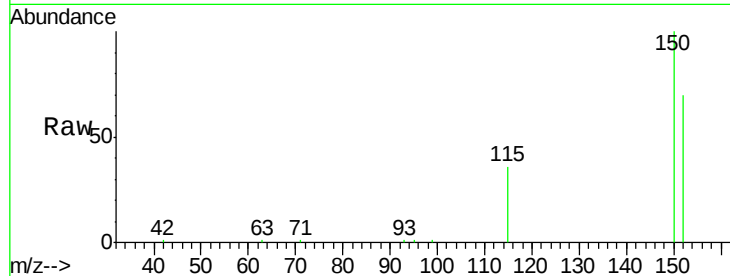
1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 8.18 min Scan# 322
Delta R.T. -0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-005

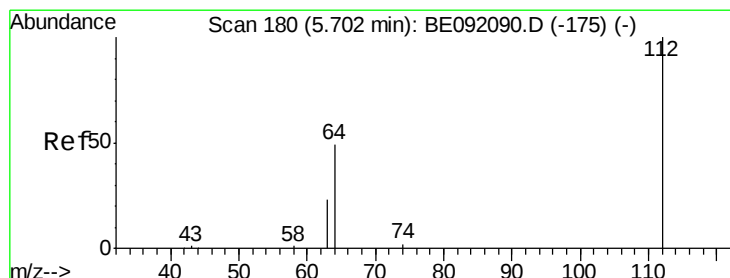
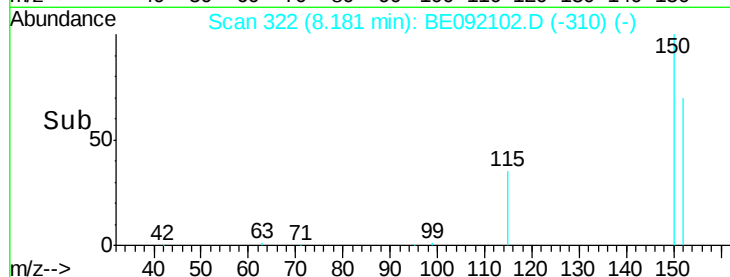
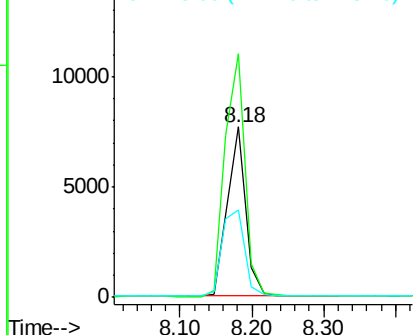
Tot Ion	Ratio	Lower	Upper
152	100		
150	142.8	106.0	159.0
115	51.3	36.9	55.3

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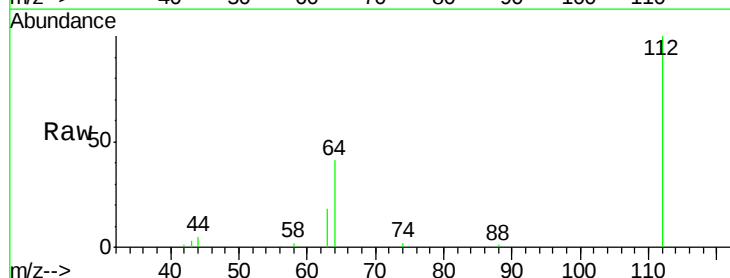
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



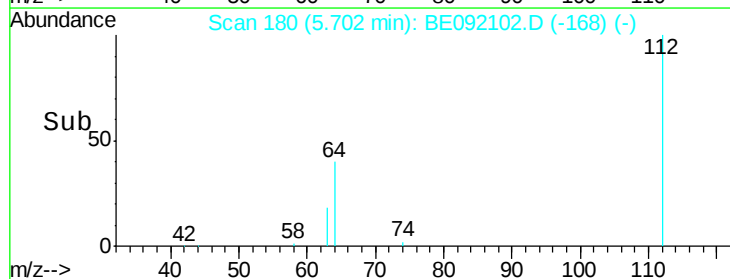
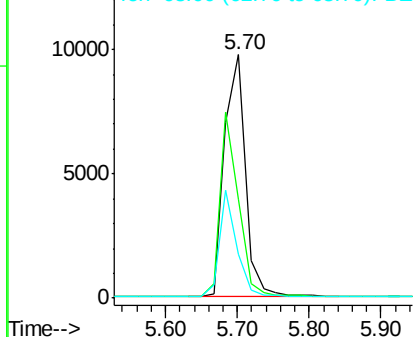
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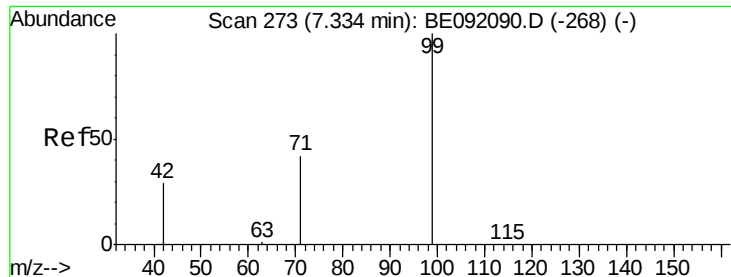
2-Fluorophenol
Concen: 5.37 ng
RT: 5.70 min Scan# 180
Delta R.T. 0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.2	55.9	83.9
63	36.3	31.1	46.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 5.99 ng

RT: 7.33 min Scan# 273

Delta R.T. 0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Instrument :

BNA_E

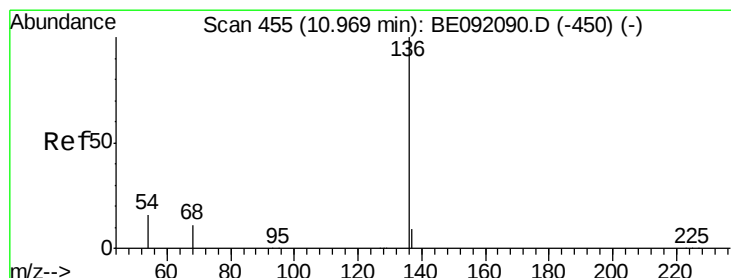
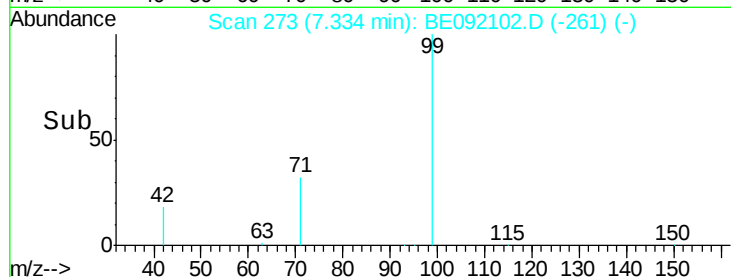
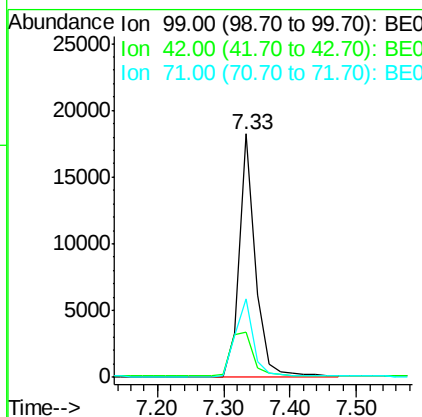
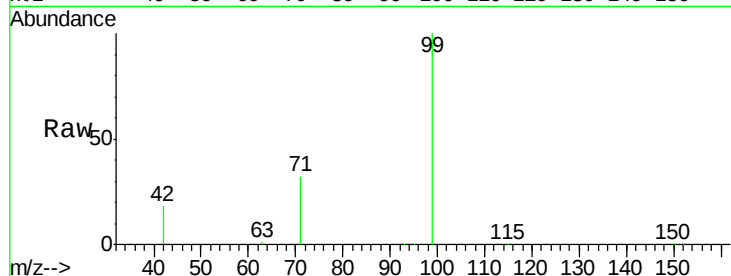
ClientSampleId :

TILCON-MH-SF-005

Tot Ion:	99	Resp:	30790
Ion	Ratio	Lower	Upper
99	100		
42	24.7	22.4	33.6
71	35.6	28.9	43.3

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#8

Naphthalene-d8

Concen: 5.00 ng

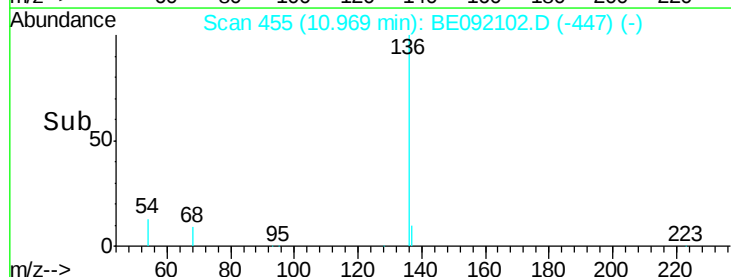
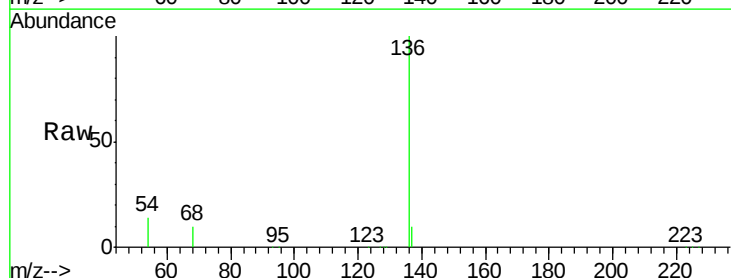
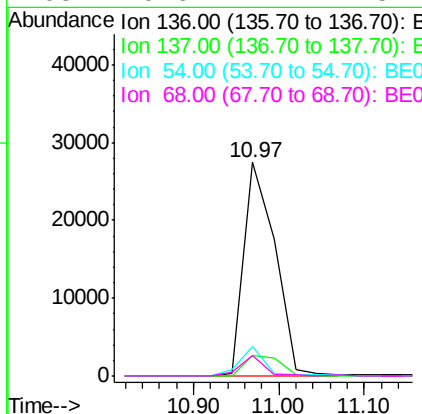
RT: 10.97 min Scan# 455

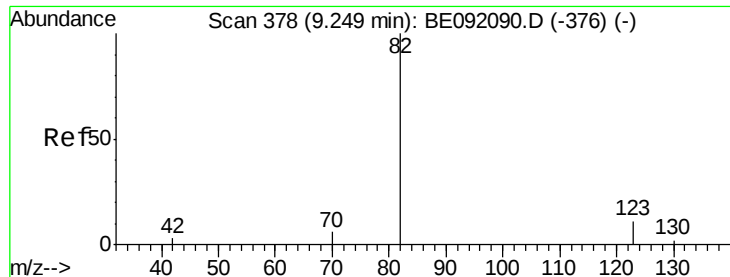
Delta R.T. 0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Tgt Ion:	136	Resp:	69584
Ion	Ratio	Lower	Upper
136	100		
137	9.8	9.1	13.7
54	13.6	2.7	4.1#
68	9.6	2.2	3.4#





#9

Nitrobenzene-d5

Concen: 3.21 ng

RT: 9.35 min Scan# 383

Delta R.T. 0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Instrument :

BNA_E

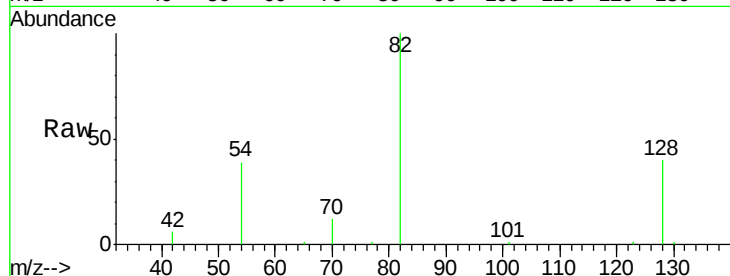
ClientSampleId :

TILCON-MH-SF-005

Tot Ion:	82	Resp:	17411
Ion Ratio	Lower	Upper	
82	100		
128	39.6	33.0	49.4
54	39.2	42.6	63.8#

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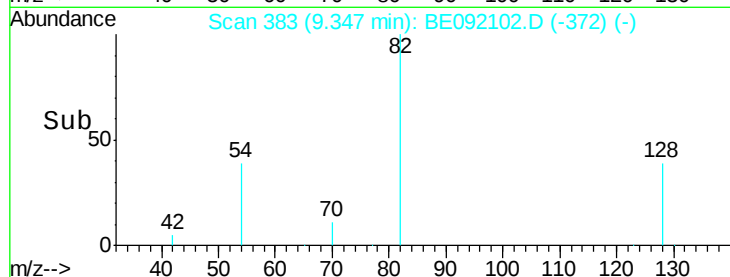


Abundance Ion 82.00 (81.70 to 82.70): BE092102.D (-376) (-)

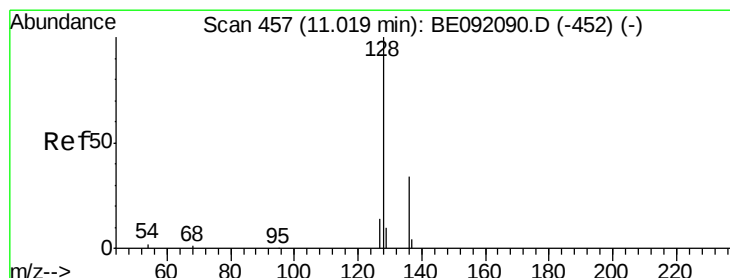
Ion 128.00 (127.70 to 128.70): BE092102.D (-376) (-)

Ion 54.00 (53.70 to 54.70): BE092102.D (-376) (-)

Time-->



Time-->



#12

Naphthalene

Concen: 0.03 ng

RT: 11.02 min Scan# 457

Delta R.T. 0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

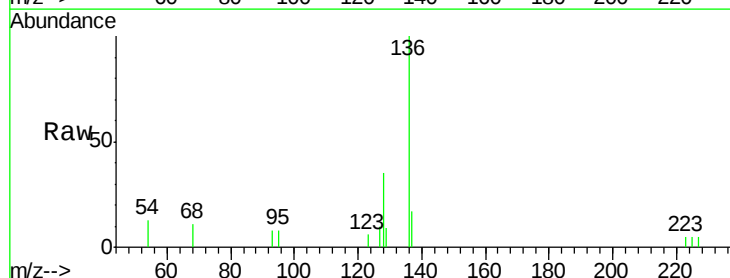
Tgt Ion:	128	Resp:	554
Ion Ratio	Lower	Upper	
128	100		
129	25.5	11.1	16.7#
127	28.1	11.3	16.9#

Abundance Ion 128.00 (127.70 to 128.70): BE092102.D (-449) (-)

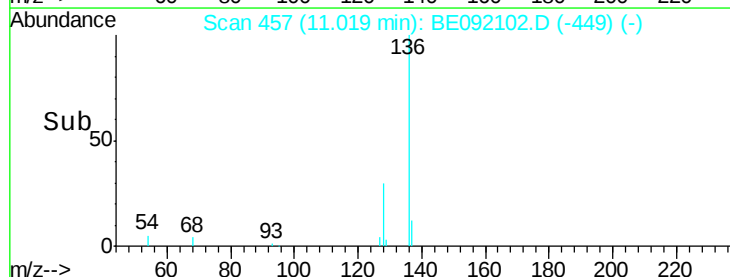
Ion 129.00 (128.70 to 129.70): BE092102.D (-449) (-)

Ion 127.00 (126.70 to 127.70): BE092102.D (-449) (-)

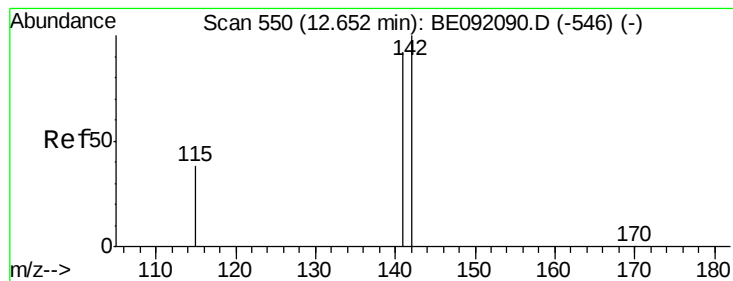
Time-->



Time-->



Time-->



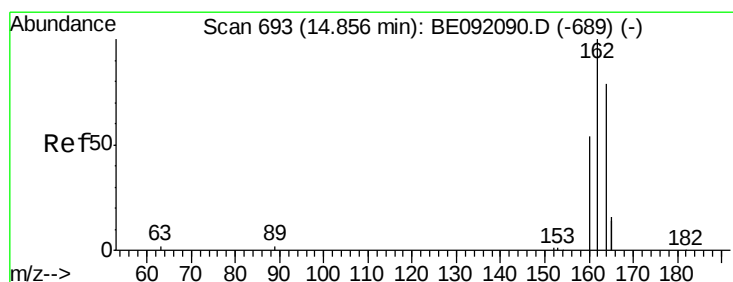
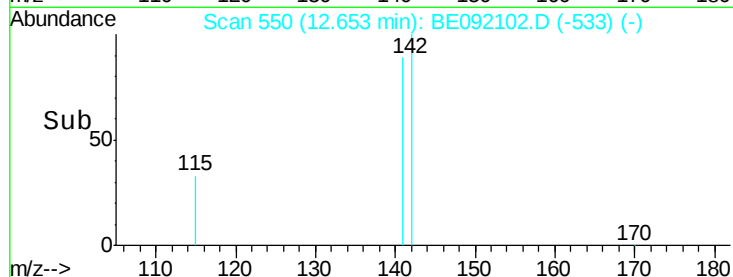
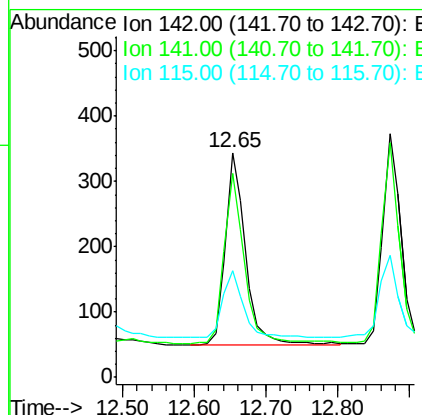
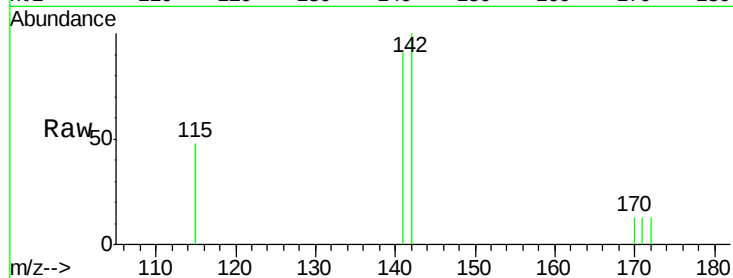
#14
2-Methylnaphthalene
Concen: 0.05 ng
RT: 12.65 min Scan# 550
Delta R.T. 0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-005

Tot Ion	Ratio	Lower	Upper
142	100		
141	91.0	65.1	97.7
115	47.7	27.0	40.4

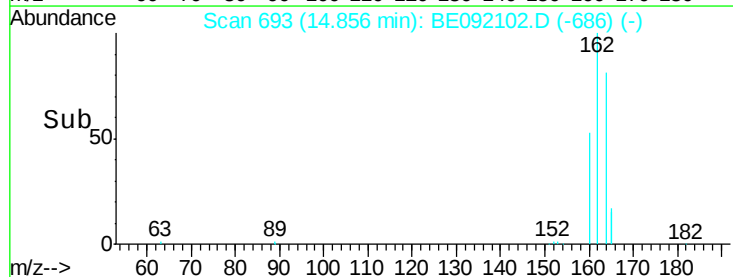
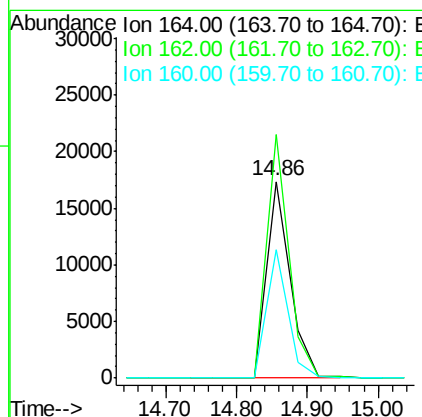
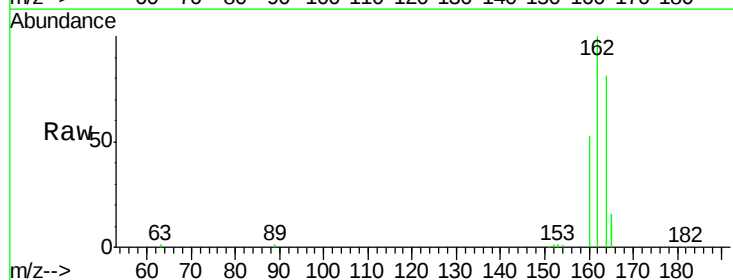
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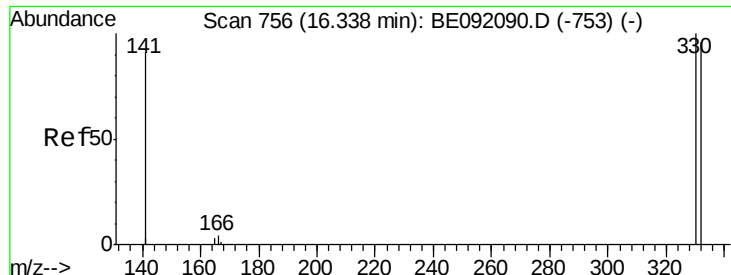
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#15
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.86 min Scan# 693
Delta R.T. -0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Lower	Upper
164	100		
162	123.9	69.5	104.3
160	65.2	27.6	41.4





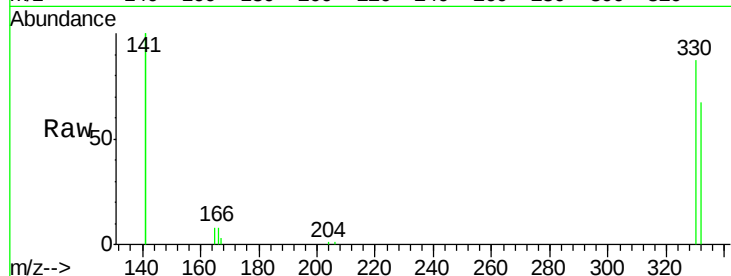
#16
 2,4,6-Tribromophenol
 Concen: 4.01 ng
 RT: 16.32 min Scan# 755
 Delta R.T. -0.02 min
 Lab File: BE092102.D
 Acq: 1 Aug 2016 21:34

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-SF-005

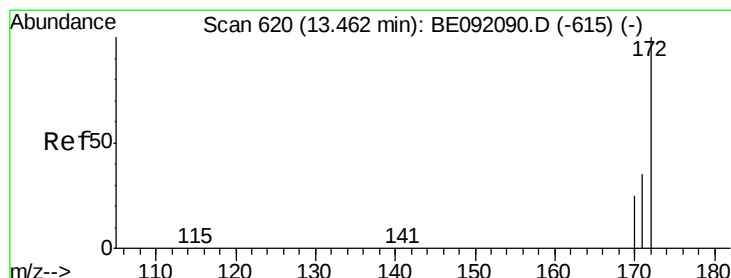
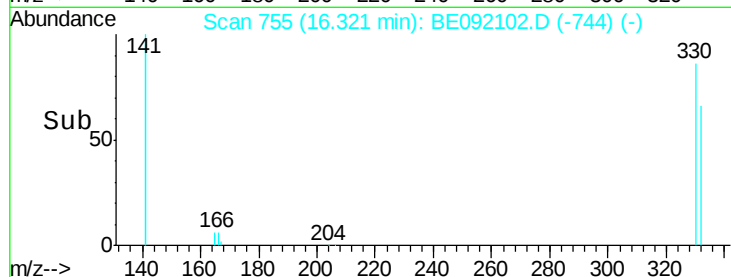
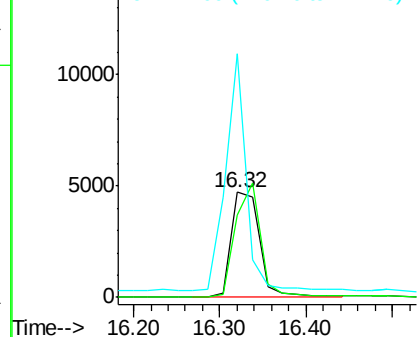
Tot Ion:330 Resp: 10369
 Ion Ratio Lower Upper
 330 100
 332 96.6 74.2 111.4
 141 170.7 139.8 209.8

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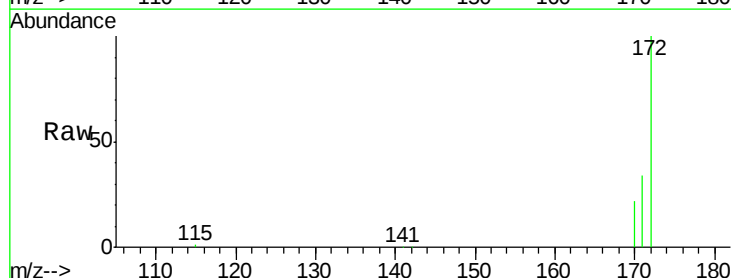


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

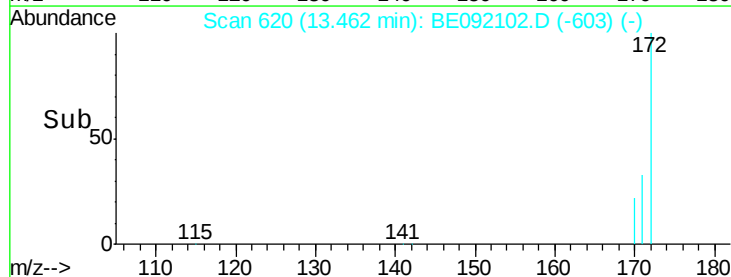
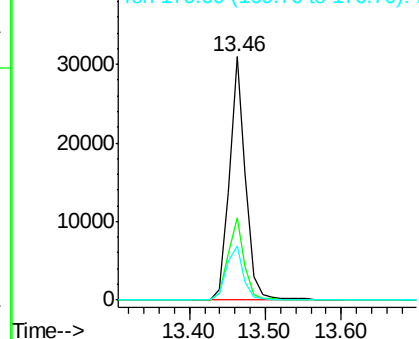


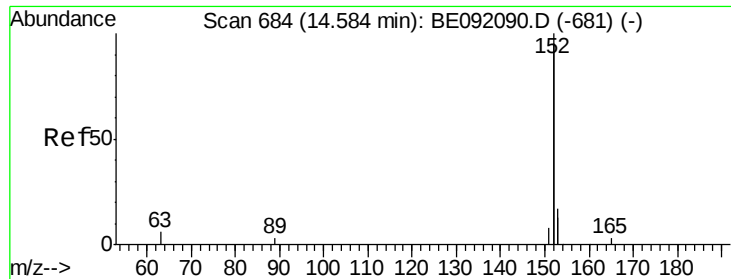
#17
 2-Fluorobiphenyl
 Concen: 3.06 ng
 RT: 13.46 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: BE092102.D
 Acq: 1 Aug 2016 21:34

Tgt Ion:172 Resp: 46373
 Ion Ratio Lower Upper
 172 100
 171 33.6 30.3 45.5
 170 22.1 21.6 32.4



Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E





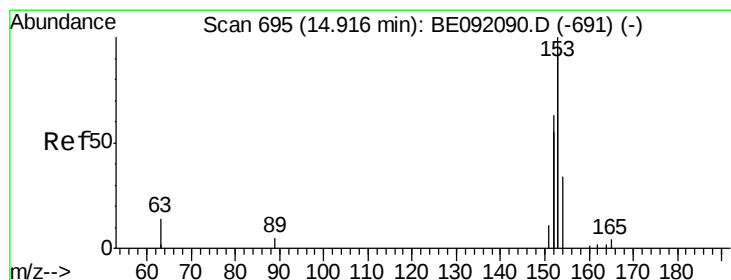
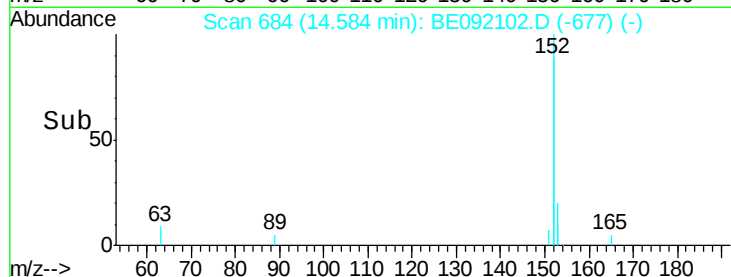
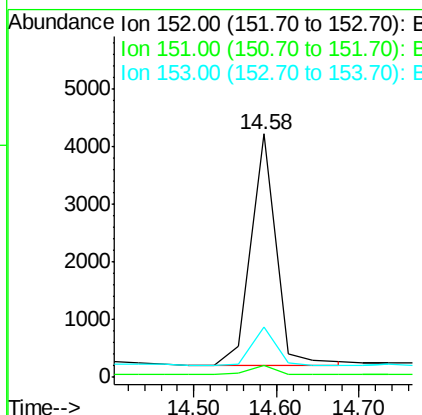
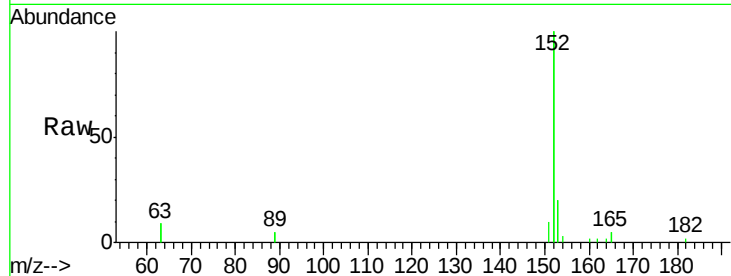
#18
Acenaphthylene
Concen: 0.10 ng
RT: 14.58 min Scan# 684
Delta R.T. -0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-005

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.3	4.0	6.0
153	15.7	9.6	14.4

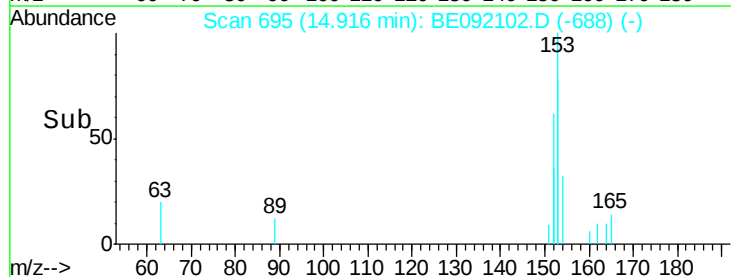
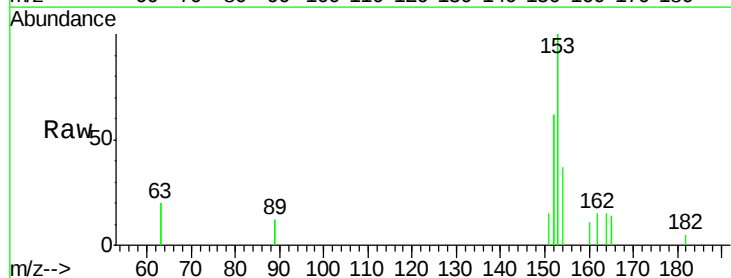
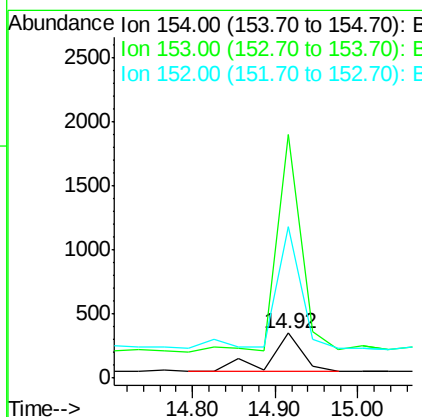
Manual Integrations
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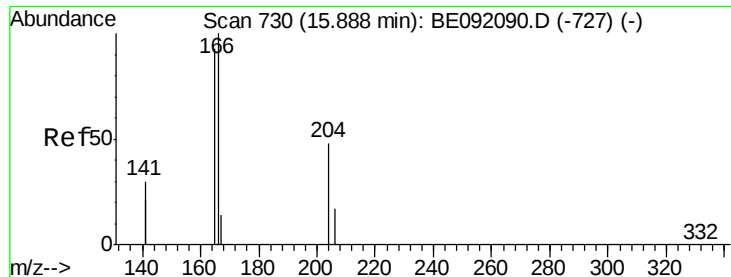
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#20
Acenaphthene
Concen: 0.07 ng
RT: 14.92 min Scan# 695
Delta R.T. -0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Lower	Upper
154	100		
153	427.9	345.1	517.7
152	244.2	0.0	0.0





#22

Fluorene

Concen: 0.12 ng

RT: 15.89 min Scan# 730

Delta R.T. -0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Instrument :

BNA_E

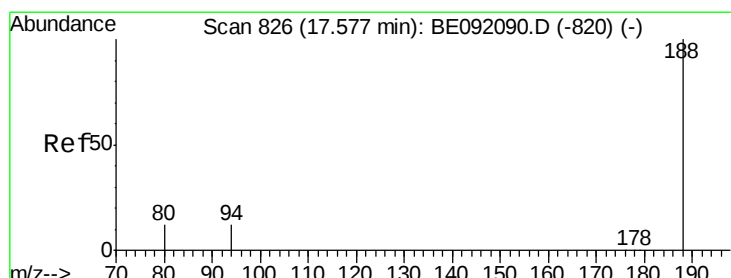
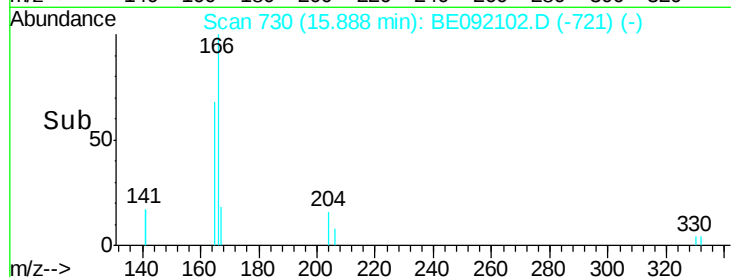
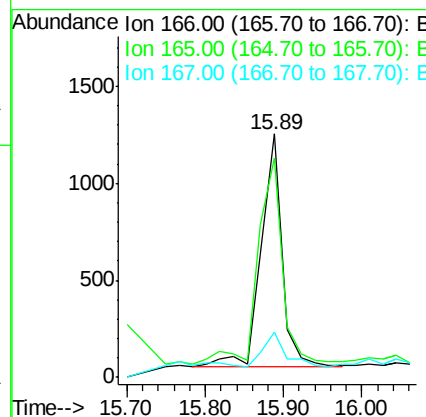
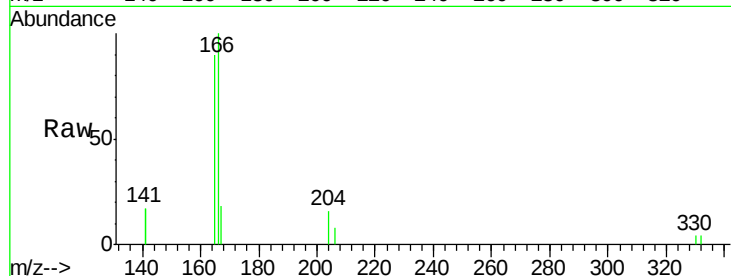
ClientSampleId :

TILCON-MH-SF-005

Tot Ion	Ratio	Lower	Upper
166	100		
165	102.8	78.6	118.0
167	15.1	11.1	16.7

Manual Integrations
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#24

Phenanthrene-d10

Concen: 5.00 ng

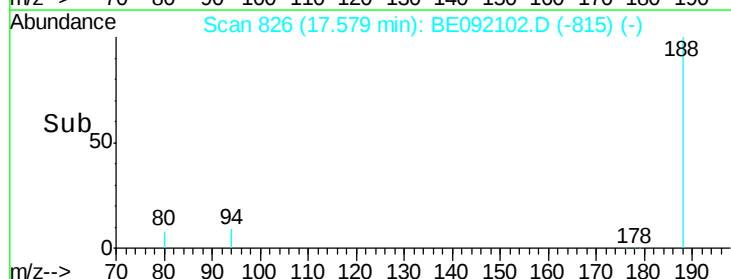
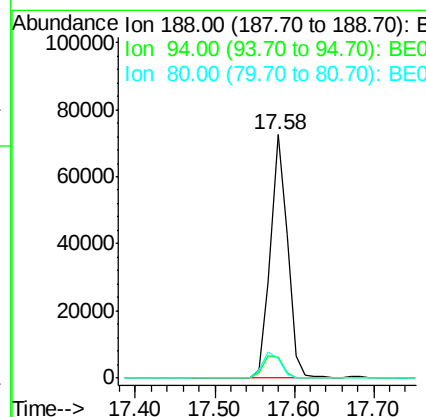
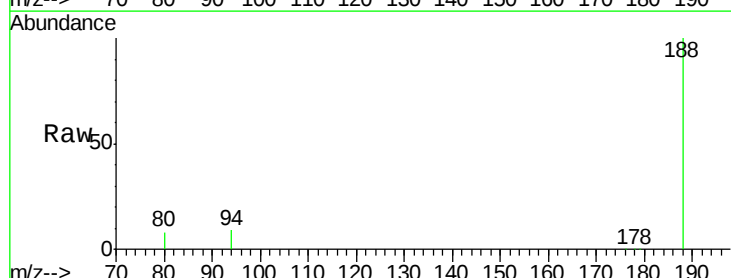
RT: 17.58 min Scan# 826

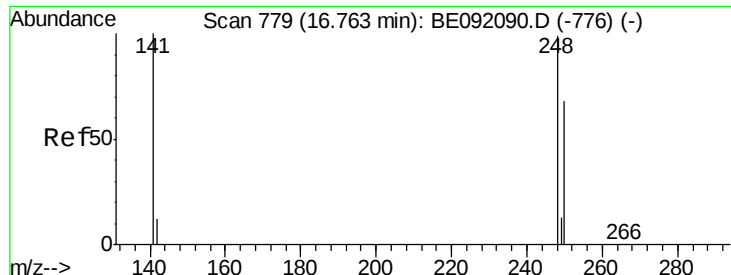
Delta R.T. 0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.6	3.9	5.9#
80	8.1	3.4	5.0#





#25

4-Bromophenyl-phenylether

Concen: 0.04 ng

RT: 16.76 min Scan# 779

Delta R.T. -0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Instrument :

BNA_E

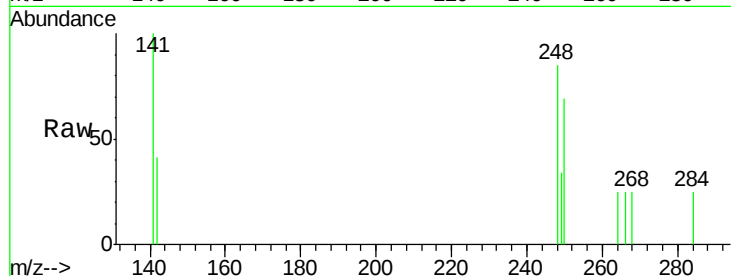
ClientSampleId :

TILCON-MH-SF-005

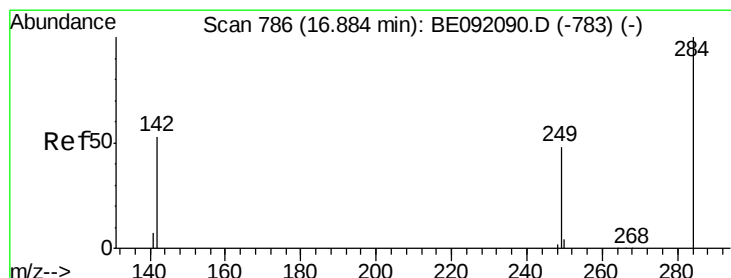
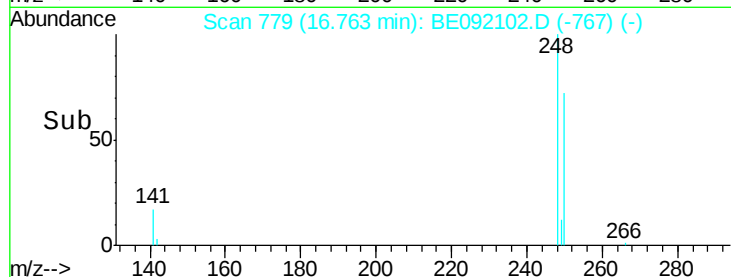
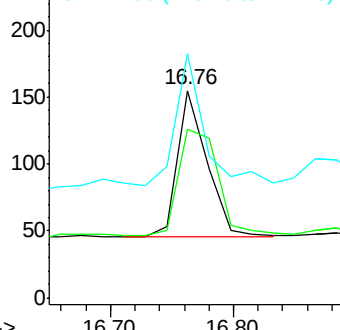
Tot Ion:	248	Resp:	180
Ion Ratio	Lower	Upper	
248	100		
250	96.1	79.6	119.4
141	104.4	68.7	103.1#

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Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E



#26

Hexachlorobenzene

Concen: 0.04 ng

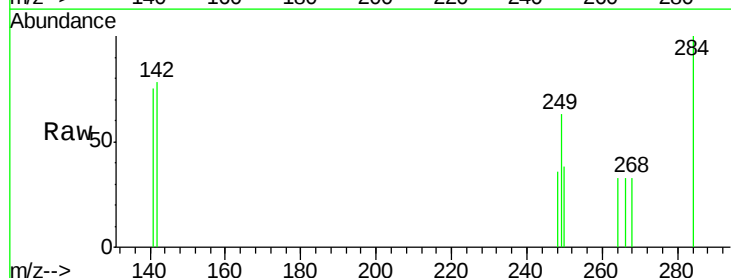
RT: 16.88 min Scan# 786

Delta R.T. -0.00 min

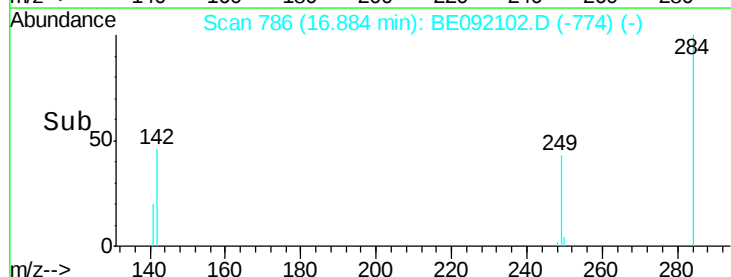
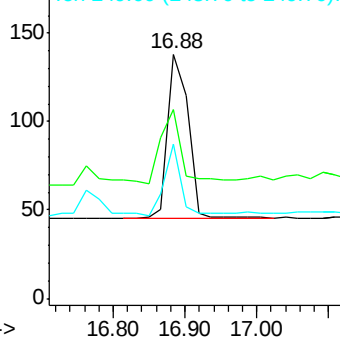
Lab File: BE092102.D

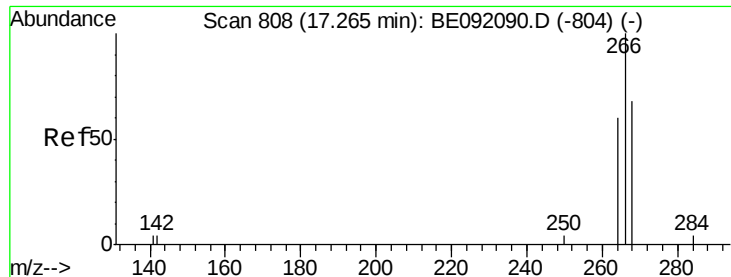
Acq: 1 Aug 2016 21:34

Tgt Ion:	284	Resp:	184
Ion Ratio	Lower	Upper	
284	100		
142	43.5	33.3	49.9
249	29.9	25.4	38.0



Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E





#27

Pentachlorophenol

Concen: 0.72 ng

RT: 17.25 min Scan# 807

Delta R.T. -0.02 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Instrument :

BNA_E

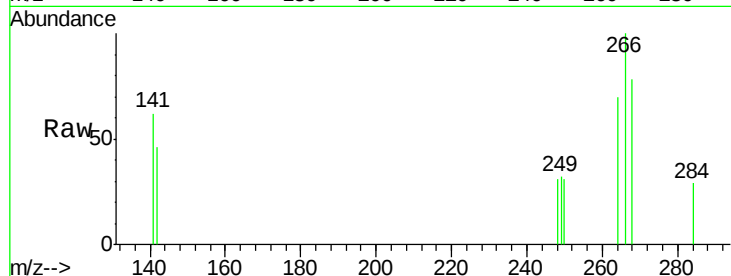
ClientSampleId :

TILCON-MH-SF-005

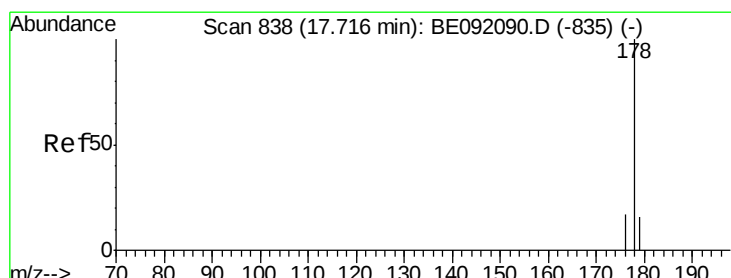
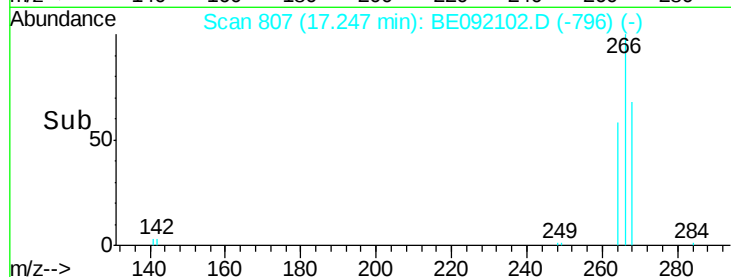
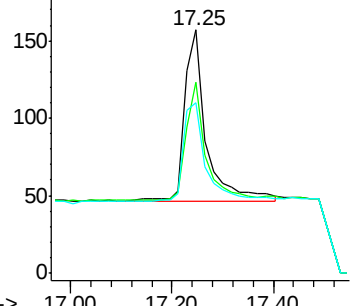
Tot Ion	Ratio	Lower	Upper
266	100		
268	78.3	62.7	94.1
264	70.1	63.5	95.3

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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



#28

Phenanthrene

Concen: 0.41 ng m

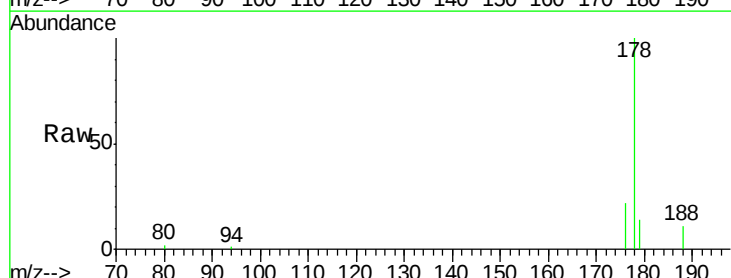
RT: 17.61 min Scan# 829

Delta R.T. -0.01 min

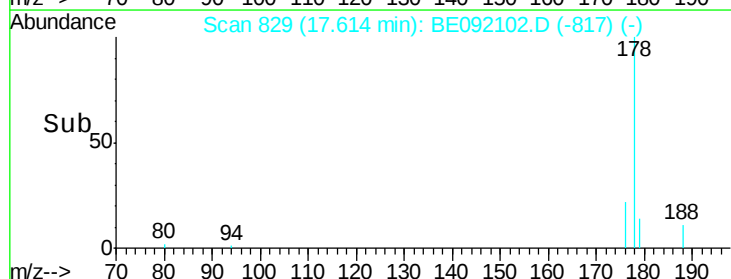
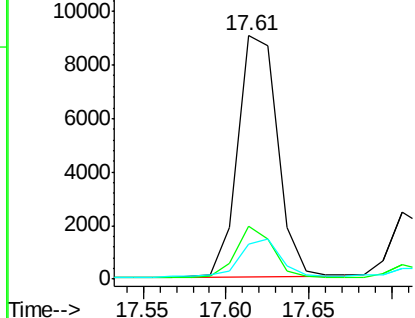
Lab File: BE092102.D

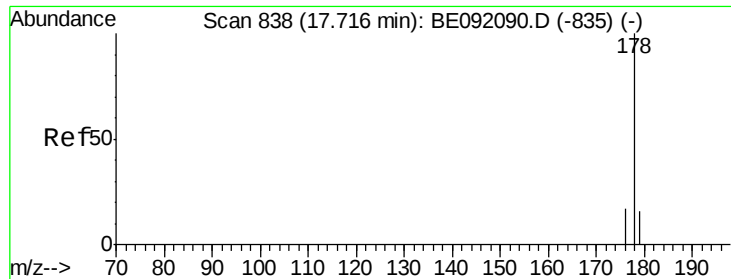
Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	5.1	15.4	23.0#
179	4.1	12.7	19.1#



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





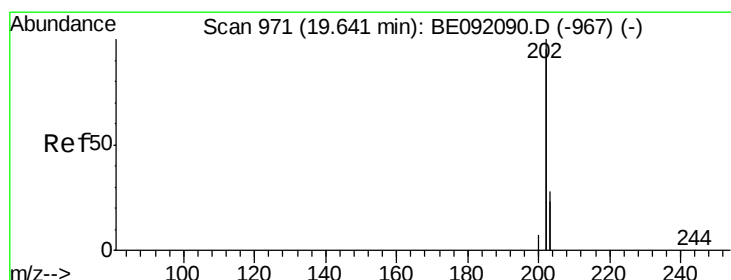
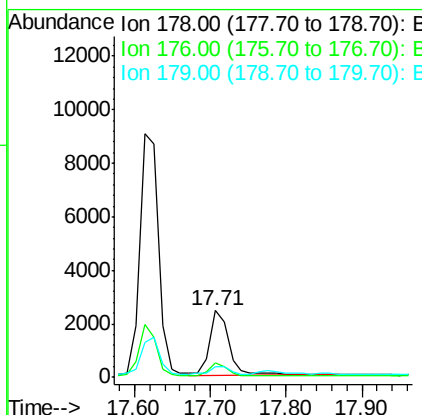
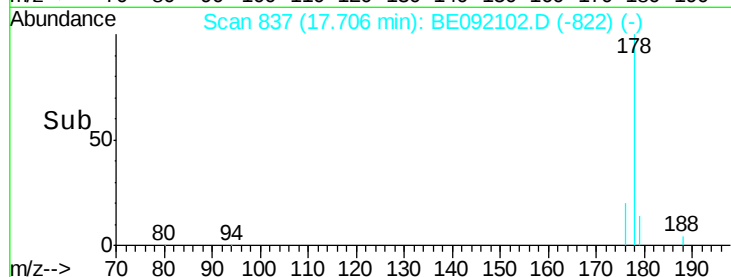
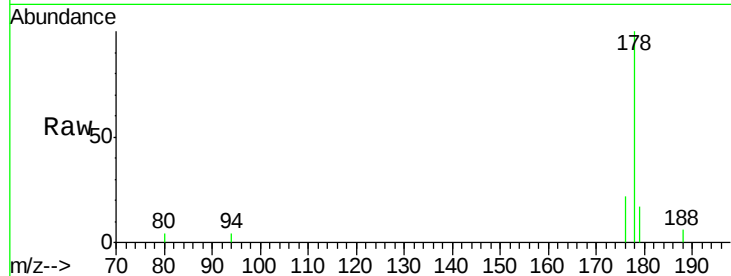
#29
 Anthracene
 Concen: 0.16 ng
 RT: 17.71 min Scan# 837
 Delta R.T. -0.01 min
 Lab File: BE092102.D
 Acq: 1 Aug 2016 21:34

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-SF-005

Tot Ion:178 Resp: 4252
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.2 22.8
 179 13.5 12.2 18.4

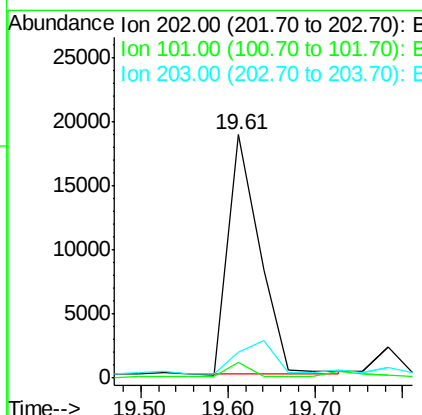
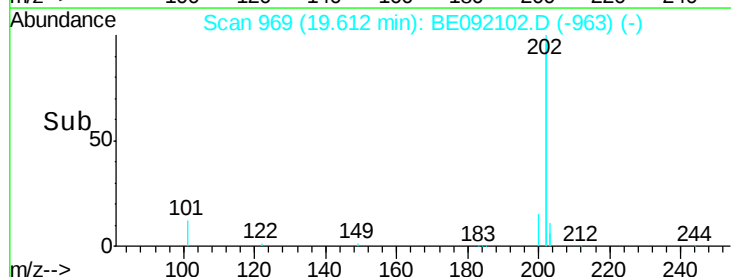
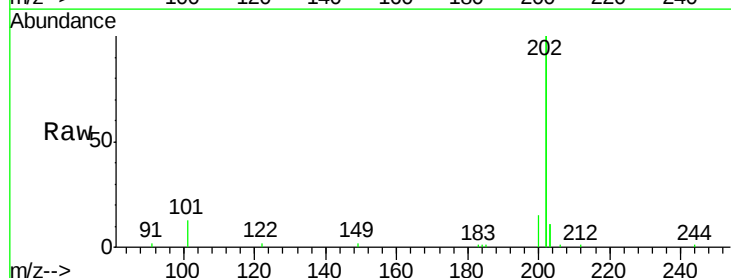
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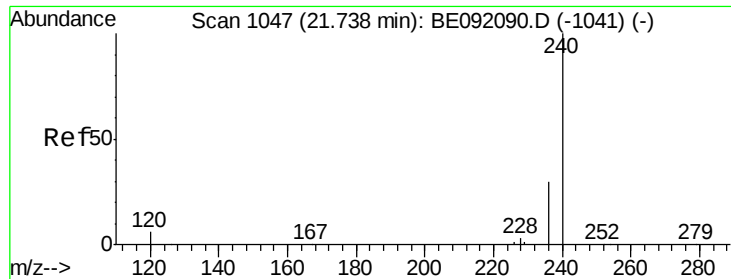
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#30
 Fluoranthene
 Concen: 0.45 ng
 RT: 19.61 min Scan# 969
 Delta R.T. -0.03 min
 Lab File: BE092102.D
 Acq: 1 Aug 2016 21:34

Tgt Ion:202 Resp: 47304
 Ion Ratio Lower Upper
 202 100
 101 4.4 2.2 3.2#
 203 0.0 13.0 19.4#





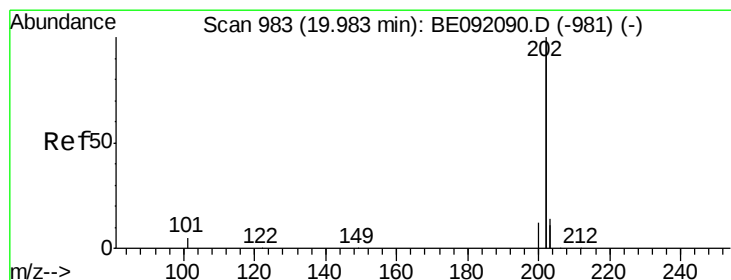
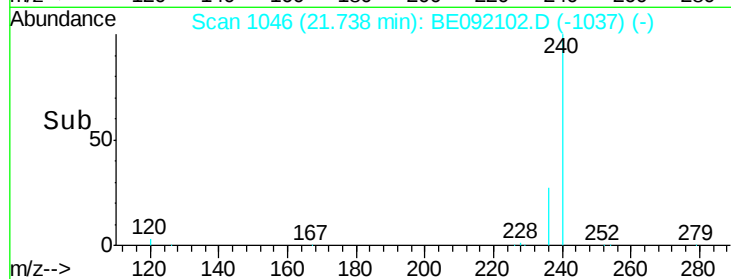
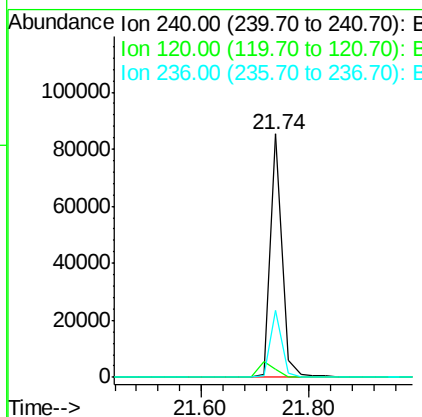
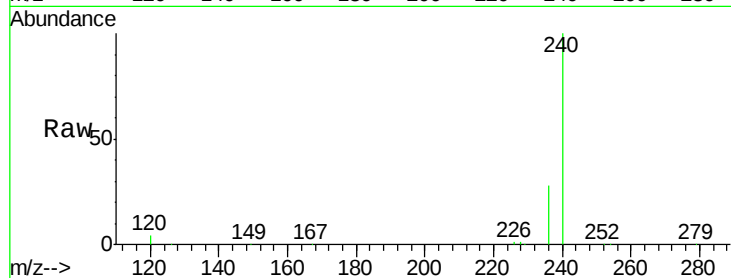
#31
Chrysene-d12
Concen: 5.00 ng
RT: 21.74 min Scan# 1046
Delta R.T. -0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-005

Tot Ion:240 Resp: 130606
Ion Ratio Lower Upper
240 100
120 3.6 0.6 1.0#
236 27.6 18.2 27.4#

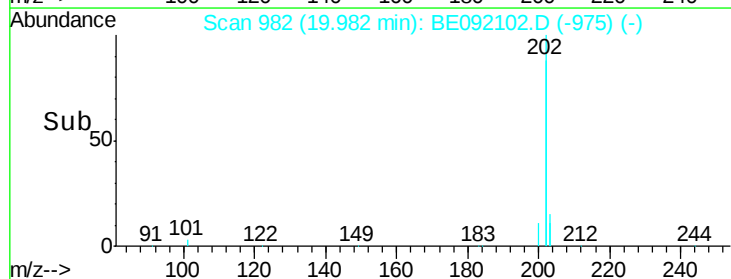
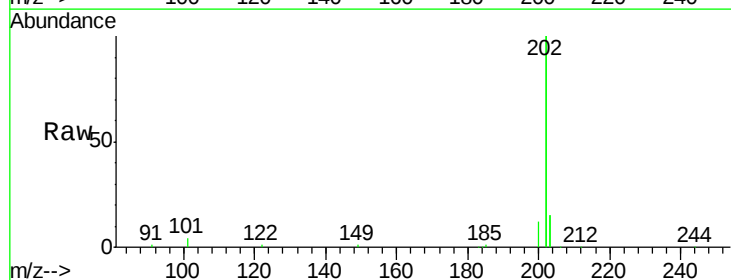
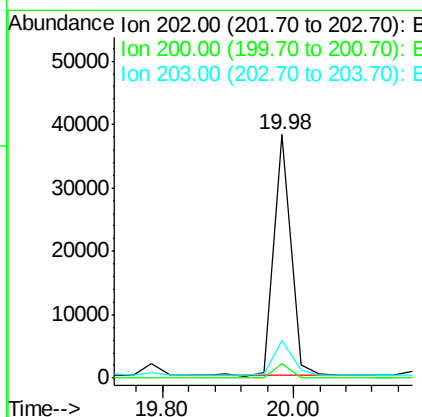
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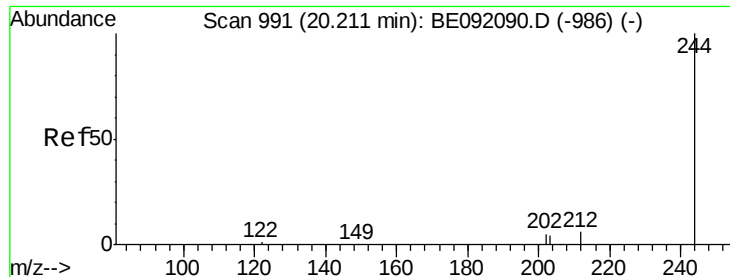
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#33
Pyrene
Concen: 0.47 ng
RT: 19.98 min Scan# 982
Delta R.T. -0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Tgt Ion:202 Resp: 70043
Ion Ratio Lower Upper
202 100
200 5.6 4.4 6.6
203 16.4 13.4 20.0





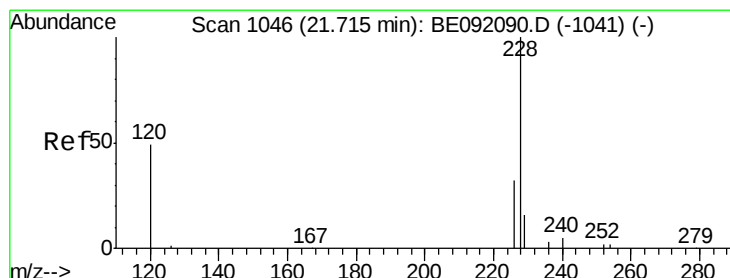
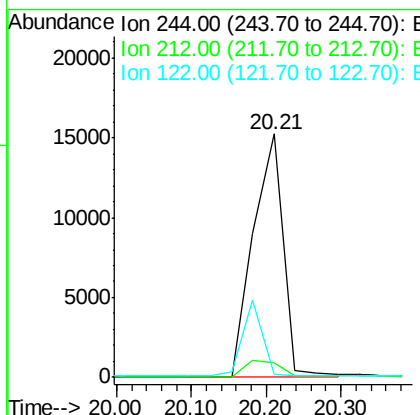
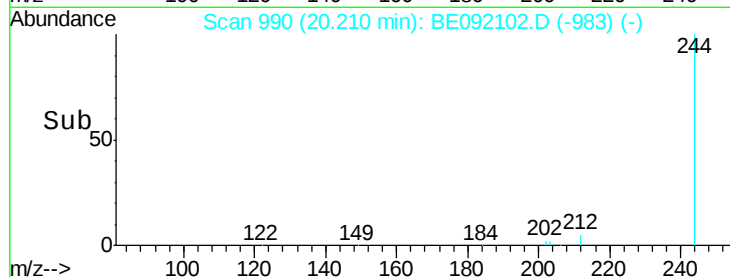
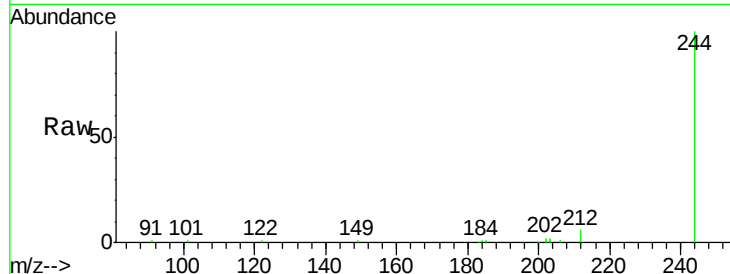
#34
 Terphenyl-d14
 Concen: 3.34 ng
 RT: 20.21 min Scan# 990
 Delta R.T. 0.00 min
 Lab File: BE092102.D
 Acq: 1 Aug 2016 21:34

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-SF-005

Tot Ion	Ratio	Lower	Upper
244	100		
212	5.8	9.1	13.7#
122	1.0	11.0	16.4#

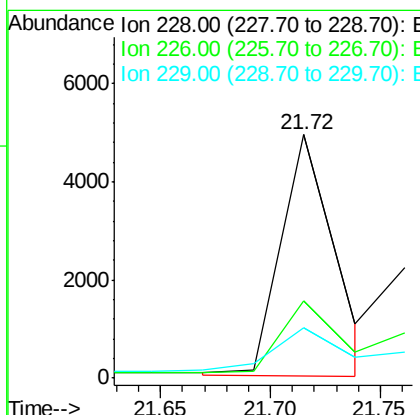
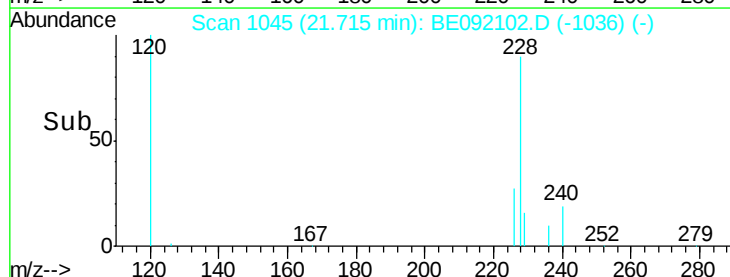
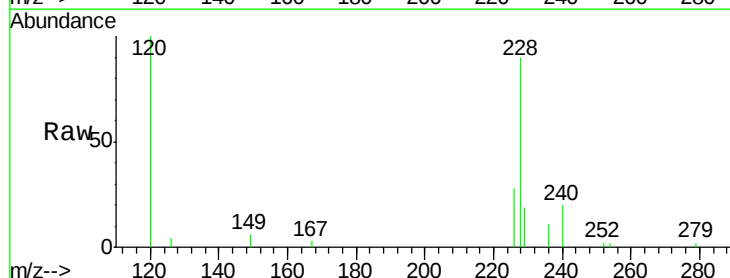
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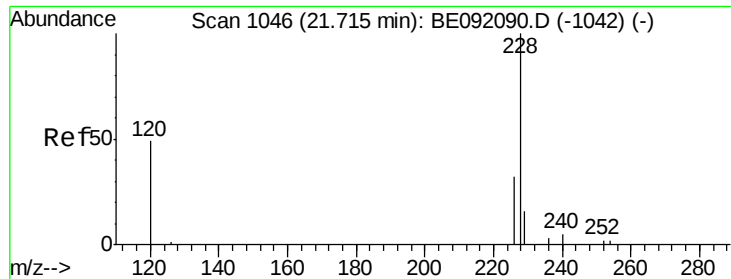
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#35
 Benzo(a)anthracene
 Concen: 0.21 ng m
 RT: 21.72 min Scan# 1045
 Delta R.T. 0.00 min
 Lab File: BE092102.D
 Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.6	22.1	33.1
229	20.8	15.1	22.7





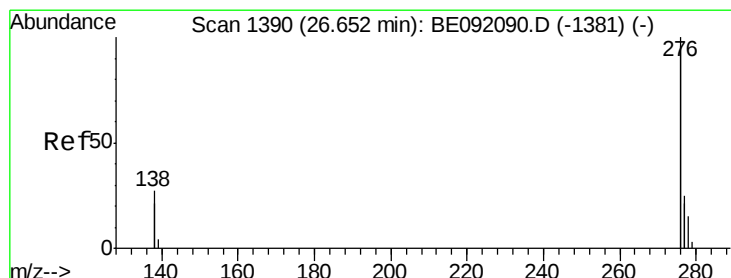
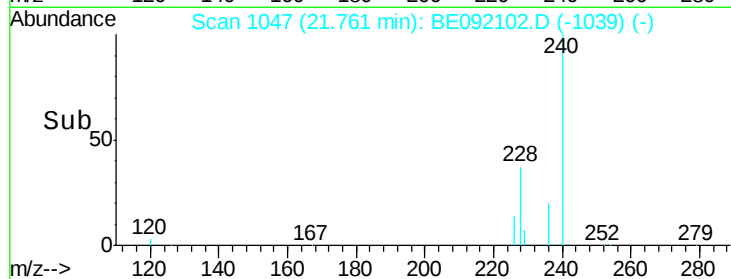
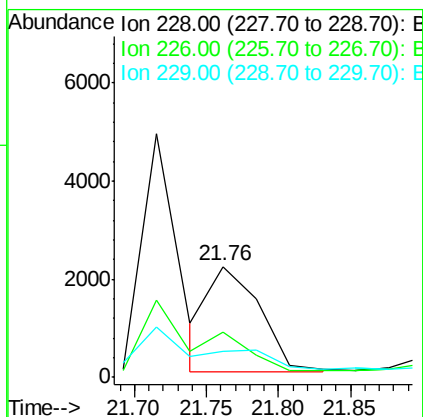
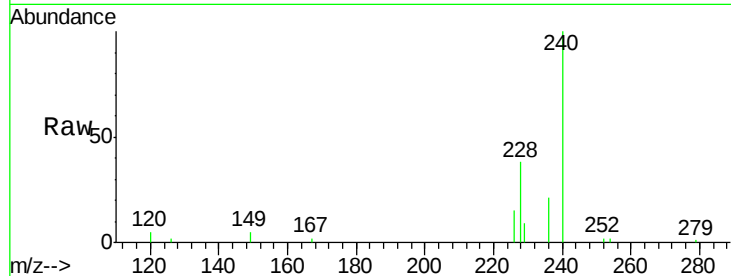
#37
Chrysene
Concen: 0.17 ng/ml
RT: 21.76 min Scan# 1047
Delta R.T. -0.02 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-005

Tot Ion	Ratio	Lower	Upper
228	100		
226	40.3	22.3	33.5#
229	23.6	16.9	25.3

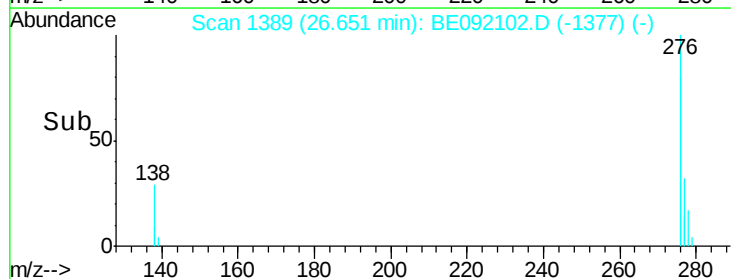
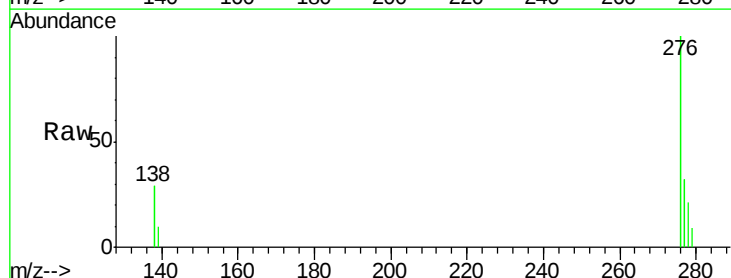
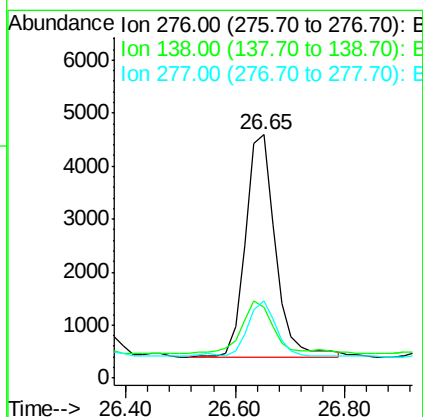
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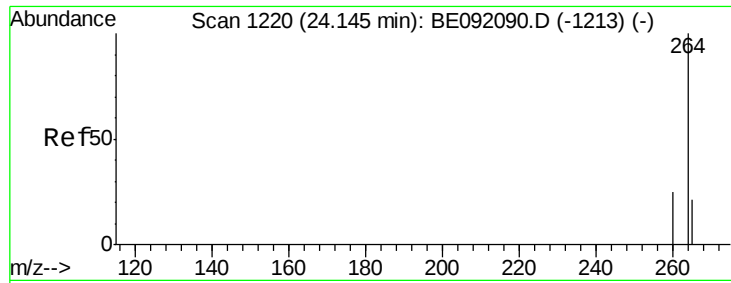
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#39
Indeno(1,2,3-cd)pyrene
Concen: 0.12 ng/ml
RT: 26.65 min Scan# 1389
Delta R.T. -0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Lower	Upper
276	100		
138	24.3	21.2	31.8
277	22.2	19.8	29.8





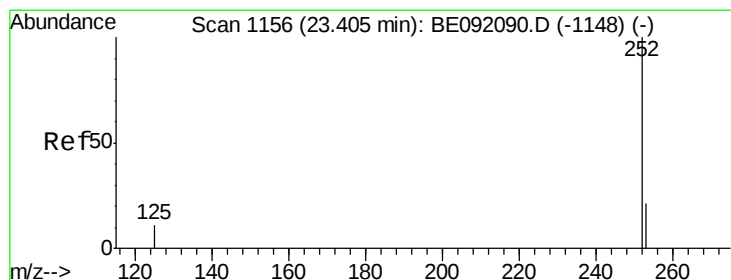
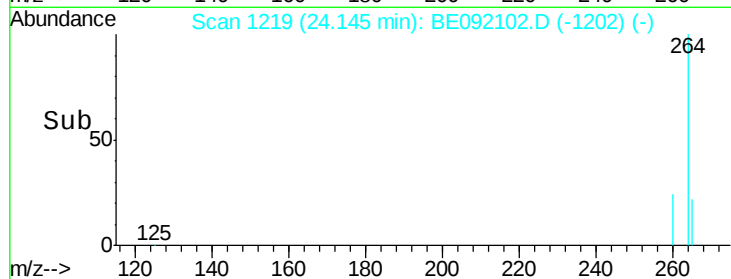
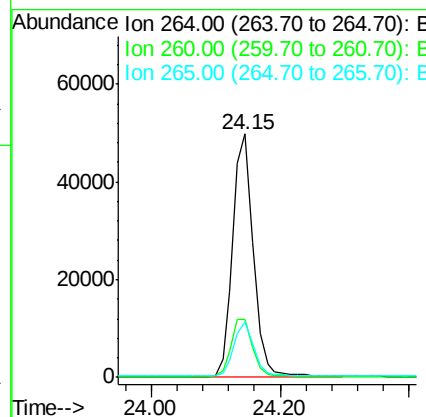
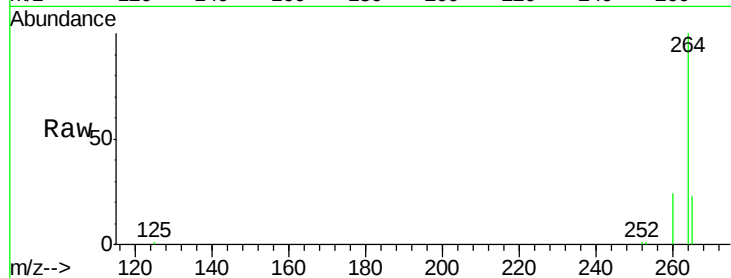
#40
Pervlene-d12
Concen: 5.00 ng
RT: 24.15 min Scan# 1219
Delta R.T. -0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-005

Tot Ion	Ratio	Resp	Lower	Upper
264	100			
260	24.0	20.8	31.2	
265	22.7	16.6	25.0	

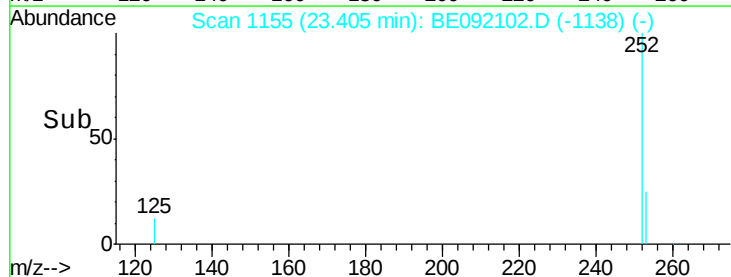
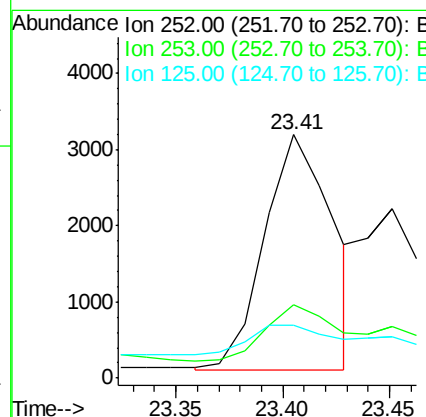
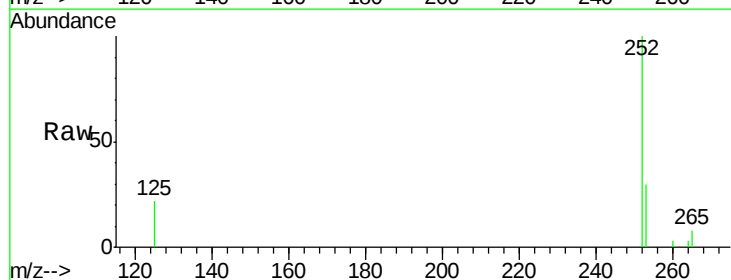
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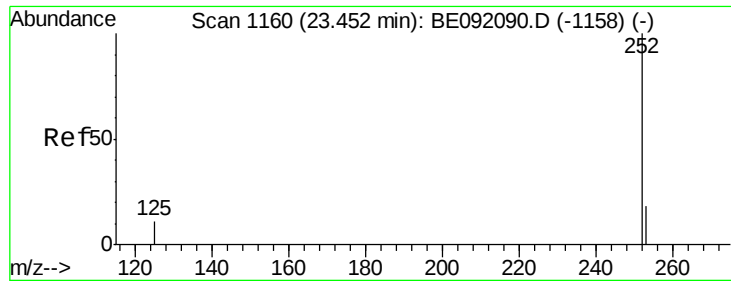
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#41
Benzo(b)fluoranthene
Concen: 0.20 ng m
RT: 23.41 min Scan# 1155
Delta R.T. 0.00 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Resp	Lower	Upper
252	100			
253	30.2	17.4	26.0#	
125	21.7	10.2	15.2#	





#42

Benzo(k)fluoranthene

Concen: 0.14 ng/mL

RT: 23.45 min Scan# 1159

Delta R.T. -0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Instrument :

BNA_E

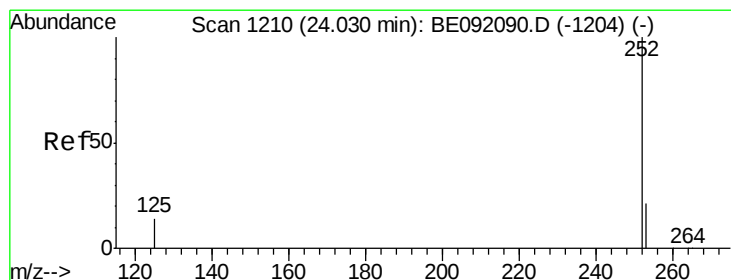
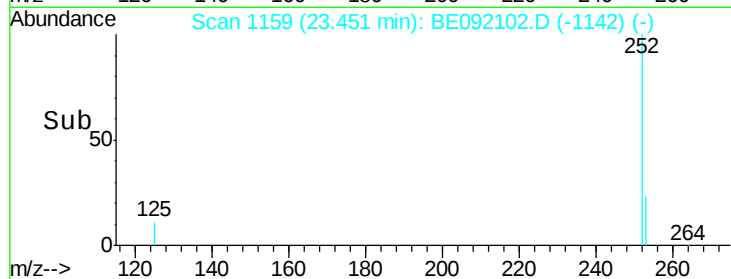
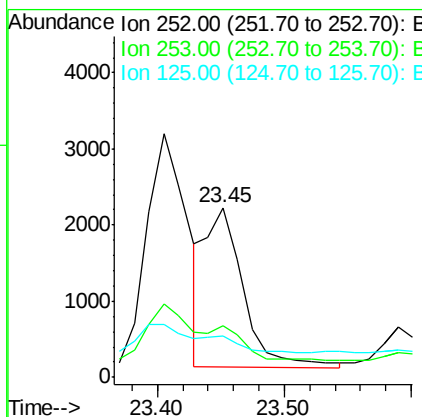
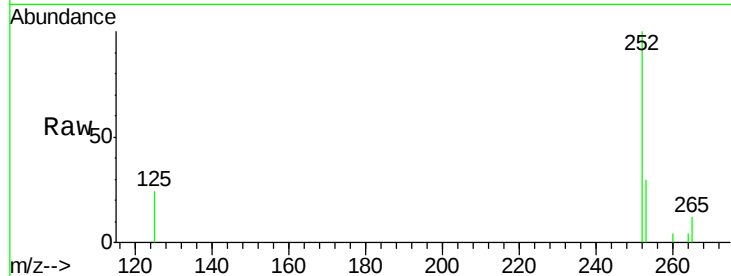
ClientSampleId :

TILCON-MH-SF-005

Tot Ion:	252	Resp:	4384
Ion Ratio	Lower	Upper	
252	100		
253	30.4	19.4	29.0#
125	24.2	8.9	13.3#

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#43

Benzo(a)pyrene

Concen: 0.19 ng/mL

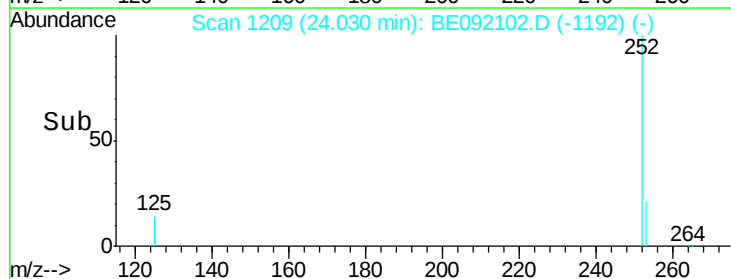
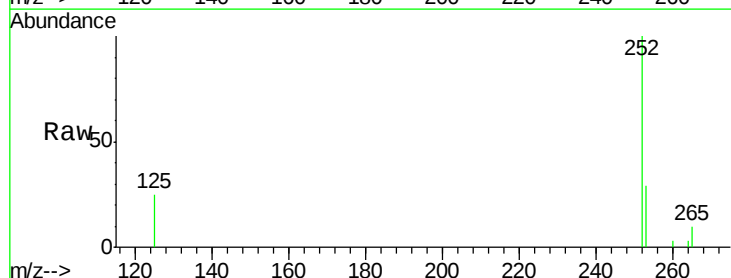
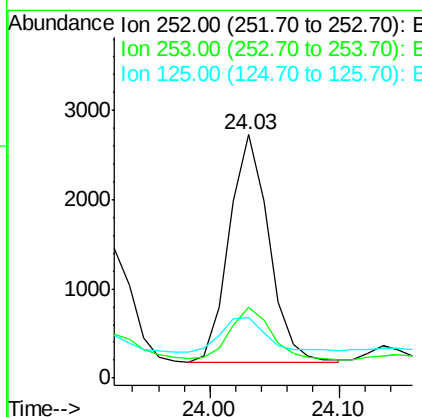
RT: 24.03 min Scan# 1209

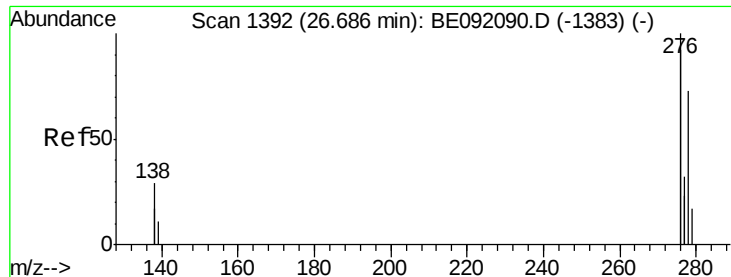
Delta R.T. -0.00 min

Lab File: BE092102.D

Acq: 1 Aug 2016 21:34

Tgt Ion:	252	Resp:	5488
Ion Ratio	Lower	Upper	
252	100		
253	28.8	19.8	29.8
125	24.8	10.4	15.6#





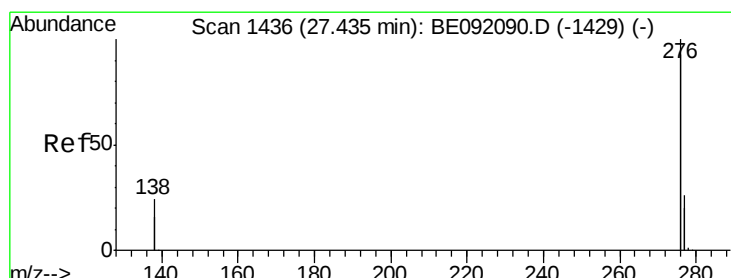
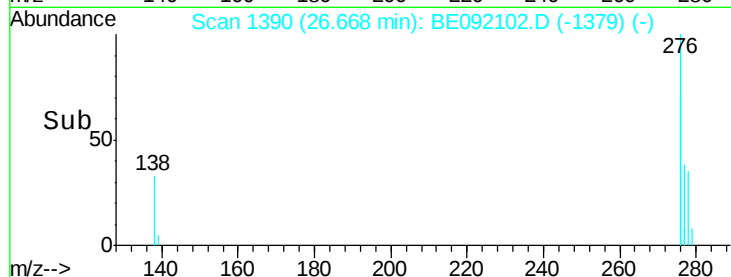
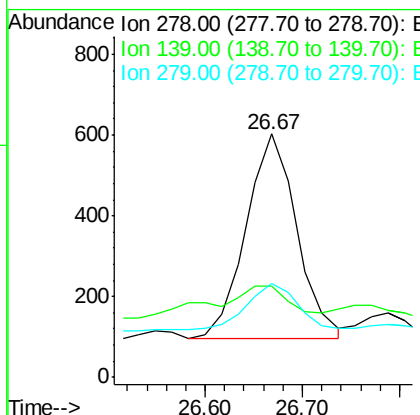
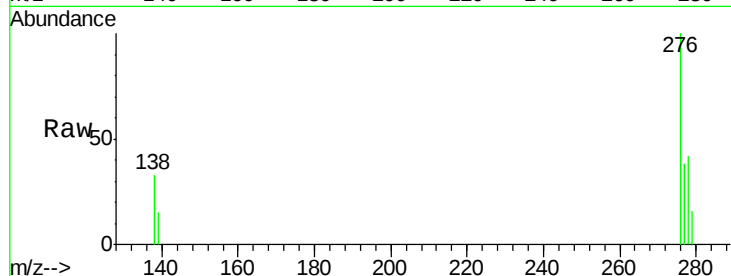
#44
Dibenzo(a,h)anthracene
Concen: 0.07 ng
RT: 26.67 min Scan# 1390
Delta R.T. -0.02 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-005

Tot Ion	Ratio	Lower	Upper
278	100		
139	37.3	16.7	25.1#
279	38.5	20.3	30.5#

Manual Integrations
APPROVED

sohil
8/2/2016 5:08:46 PM



#45
Benzo(g,h,i)perylene
Concen: 0.14 ng
RT: 27.42 min Scan# 1434
Delta R.T. -0.02 min
Lab File: BE092102.D
Acq: 1 Aug 2016 21:34

Tgt Ion	Ratio	Lower	Upper
276	100		
277	29.6	19.5	29.3#
138	29.4	20.8	31.2

