

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080116\
 Data File : BE092099.D
 Acq On : 1 Aug 2016 19:41
 Operator : UM/SJ
 Sample : H4107-01
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-SF-004

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Quant Time: Aug 02 17:25:25 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	12564	5.00	ng	0.00
8) Naphthalene-d8	10.97	136	62994	5.00	ng	0.00
15) Acenaphthene-d10	14.86	164	33940	5.00	ng	0.00
24) Phenanthrene-d10	17.58	188	121950	5.00	ng	0.00
31) Chrysene-d12	21.74	240	118714	5.00	ng	0.00
40) Perylene-d12	24.14	264	105569	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	19531	5.65	ng	-0.01
5) Phenol-d6	7.33	99	29171	6.09	ng	0.00
9) Nitrobenzene-d5	9.35	82	15582	3.17	ng	0.00
16) 2,4,6-Tribromophenol	16.32	330	9561	4.26	ng	-0.02
17) 2-Fluorobiphenyl	13.46	172	41965	3.19	ng	0.00
34) Terphenyl-d14	20.18	244	40432	3.51	ng	-0.03
Target Compounds						
12) Naphthalene	11.02	128	1264	0.09	ng	# 87
14) 2-Methylnaphthalene	12.65	142	430	0.04	ng	# 78
18) Acenaphthylene	14.58	152	2171	0.03	ng	# 94
20) Acenaphthene	14.92	154	1898	0.18	ng	# 74
22) Fluorene	15.89	166	2627	0.17	ng	99
26) Hexachlorobenzene	16.88	284	125	0.03	ng	91
27) Pentachlorophenol	17.23	266	1796	2.68	ng	# 84
28) Phenanthrene	17.62	178	41981	1.41	ng	97
29) Anthracene	17.71	178	10257m	0.42	ng	
30) Fluoranthene	19.61	202	167853	1.97	ng	# 96
33) Pyrene	19.98	202	226707	1.68	ng	96
35) Benzo(a)anthracene	21.71	228	27880m	0.94	ng	
37) Chrysene	21.76	228	20473m	0.72	ng	
39) Indeno(1,2,3-cd)pyrene	26.65	276	51191	0.41	ng	94
41) Benzo(b)fluoranthene	23.40	252	29558m	1.06	ng	
42) Benzo(k)fluoranthene	23.45	252	10119m	0.34	ng	
43) Benzo(a)pyrene	24.03	252	20241	0.74	ng	98
44) Dibenzo(a,h)anthracene	26.67	278	3348	0.13	ng	# 83
45) Benzo(a,h,i)perylene	27.42	276	53377	0.50	ng	97

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

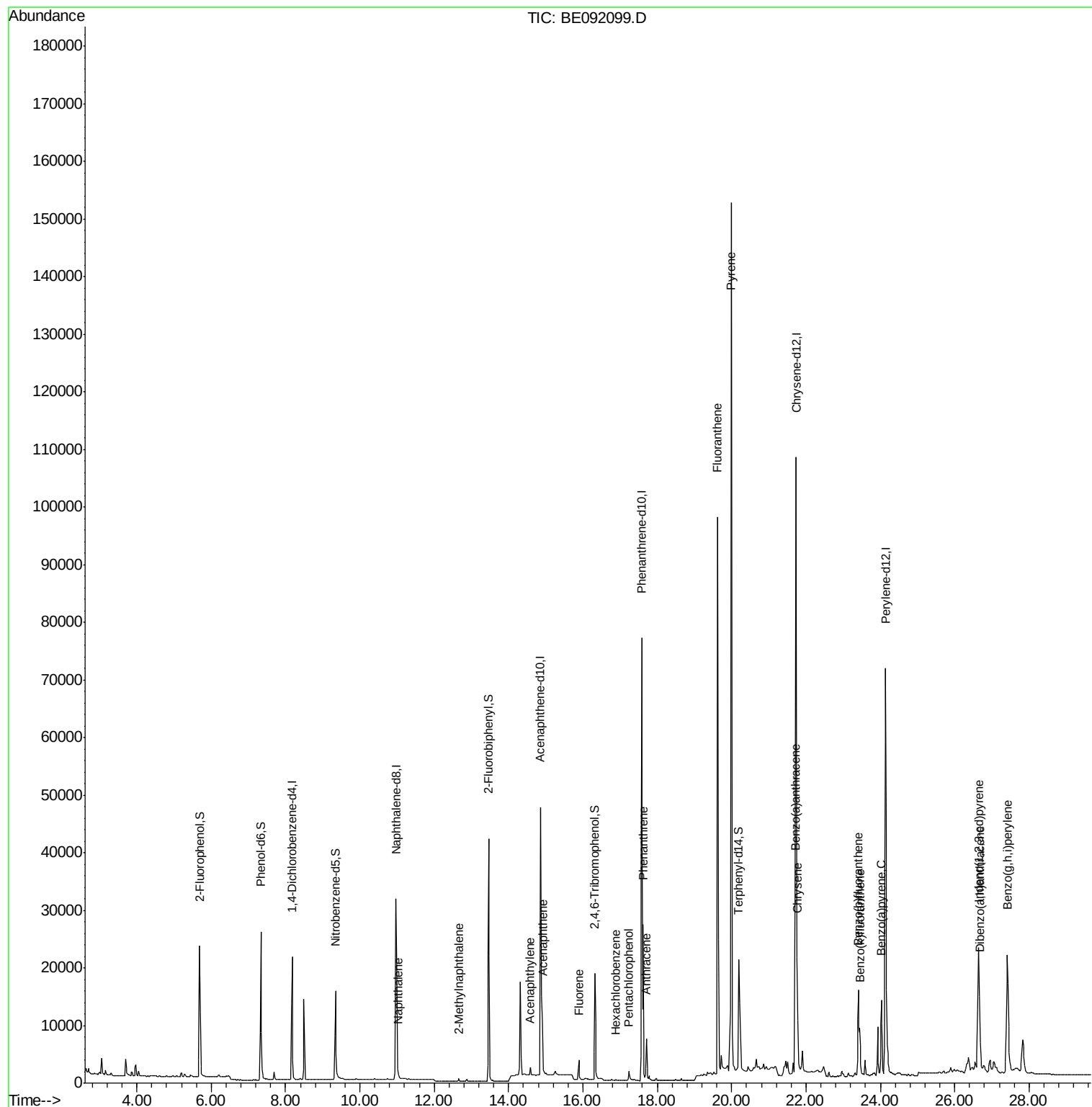
Data Path : Z:\HPCHEM1\BNA E\DATA\BE080116\
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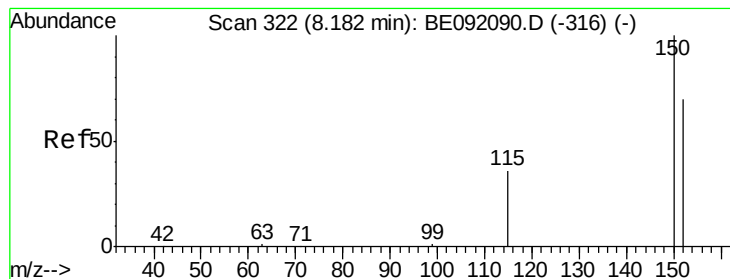
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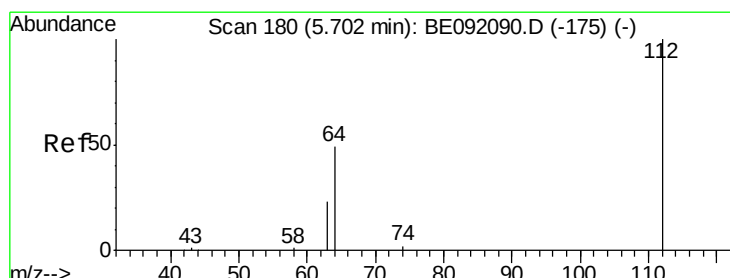
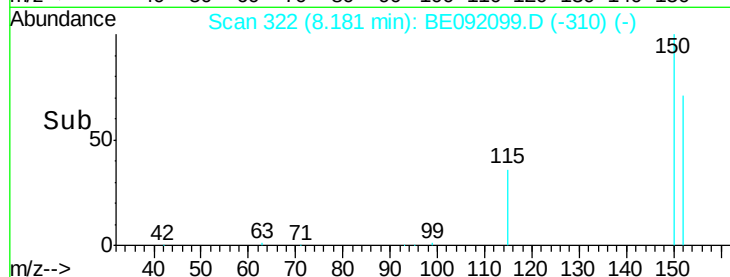
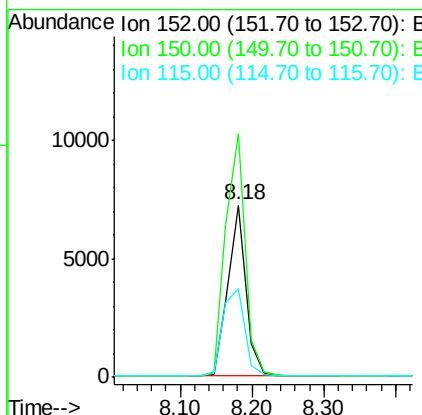
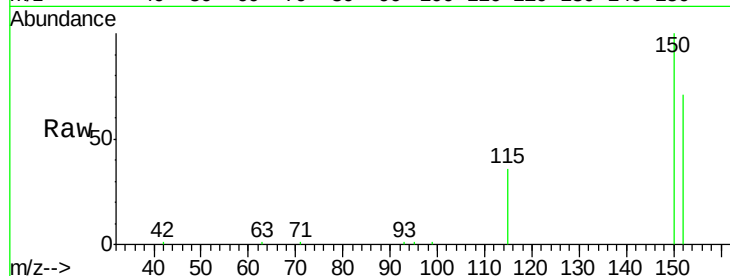
#1
 1,4-Dichlorobenzene-d4
 Concen: 5.00 ng
 RT: 8.18 min Scan# 322
 Delta R.T. -0.00 min
 Lab File: BE092099.D
 Acq: 1 Aug 2016 19:41

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-SF-004

Tot Ion	Ratio	Lower	Upper
152	100		
150	141.3	106.0	159.0
115	51.5	36.9	55.3

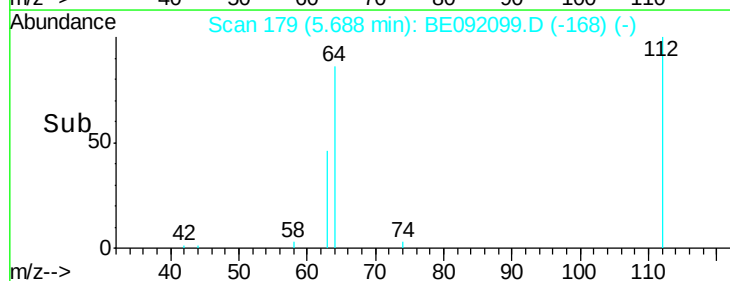
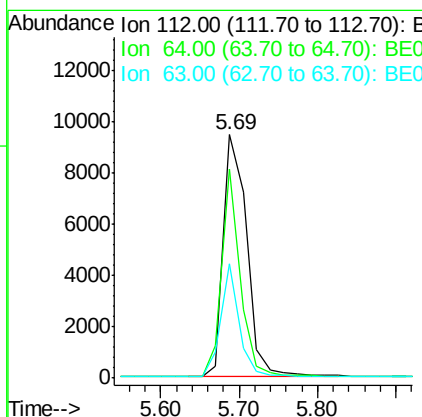
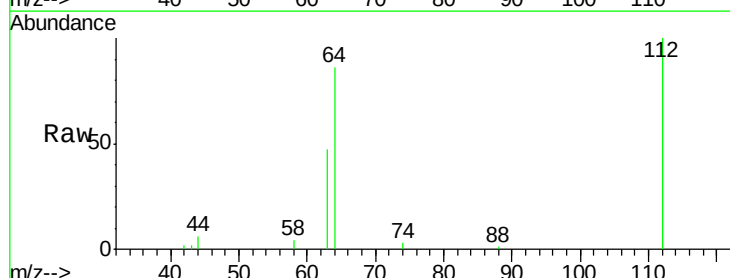
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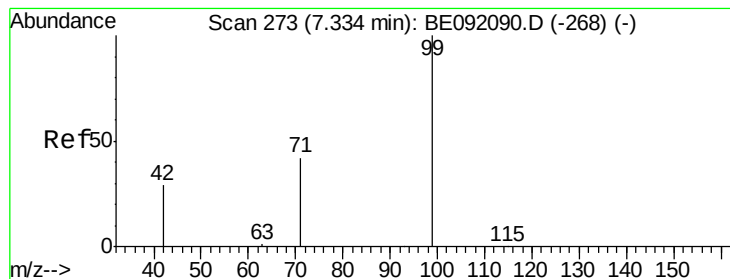
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#4
 2-Fluorophenol
 Concen: 5.65 ng
 RT: 5.69 min Scan# 179
 Delta R.T. -0.01 min
 Lab File: BE092099.D
 Acq: 1 Aug 2016 19:41

Tgt Ion	Ratio	Lower	Upper
112	100		
64	67.8	55.9	83.9
63	36.5	31.1	46.7





#5

Phenol-d6

Concen: 6.09 ng

RT: 7.33 min Scan# 273

Delta R.T. 0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Instrument :

BNA_E

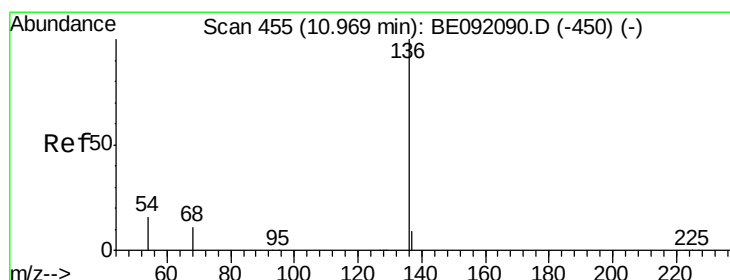
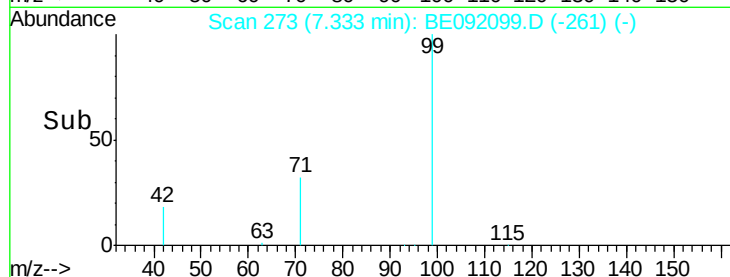
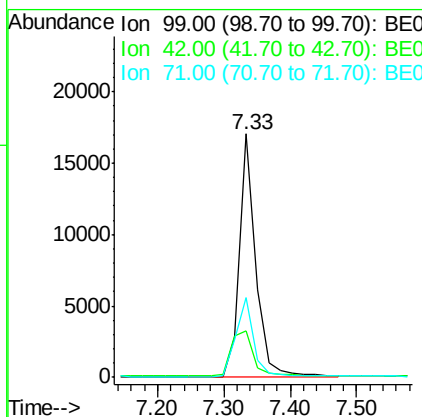
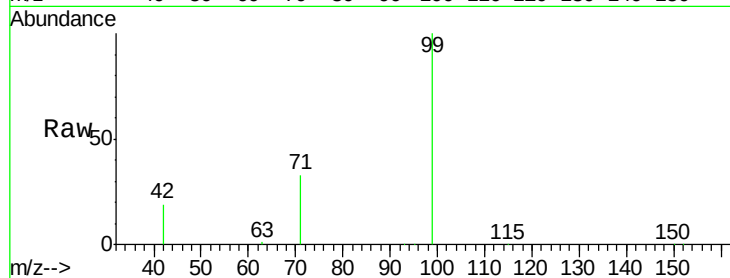
ClientSampleId :

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Tot Ion:	99	Resp:	29171
Ion Ratio	Lower	Upper	
99	100		
42	24.6	22.4	33.6
71	35.4	28.9	43.3

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#8

Naphthalene-d8

Concen: 5.00 ng

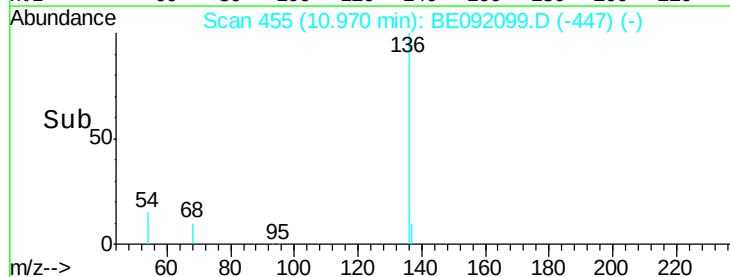
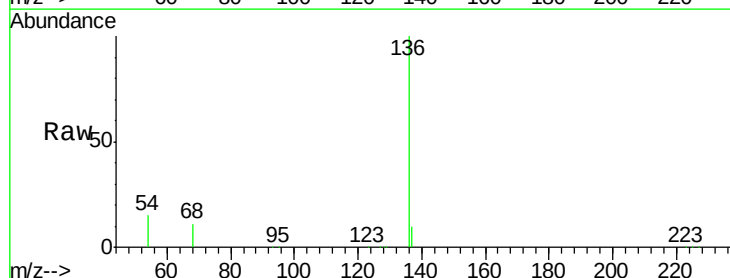
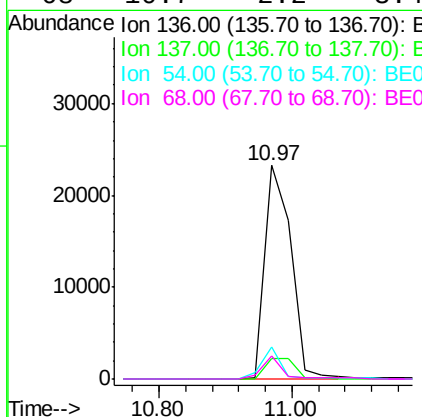
RT: 10.97 min Scan# 455

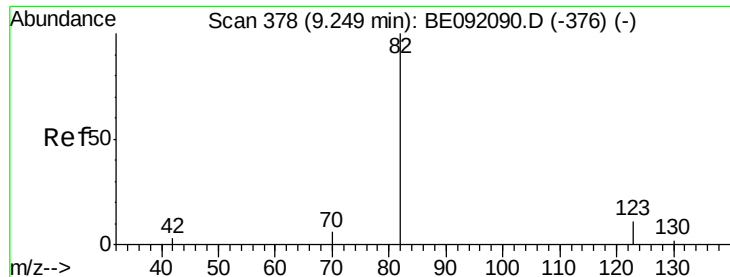
Delta R.T. 0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Tgt Ion:	136	Resp:	62994
Ion Ratio	Lower	Upper	
136	100		
137	9.7	9.1	13.7
54	15.0	2.7	4.1#
68	10.7	2.2	3.4#





#9

Nitrobenzene-d5

Concen: 3.17 ng

RT: 9.35 min Scan# 383

Delta R.T. 0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Instrument :

BNA_E

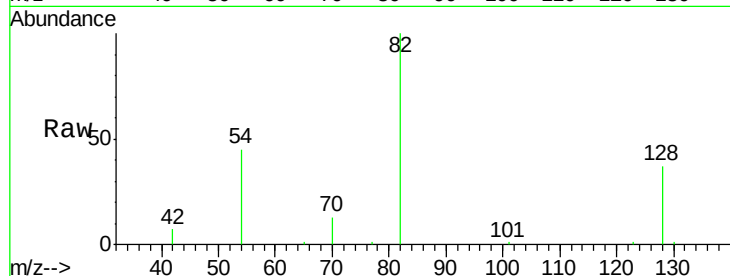
ClientSampleId :

TILCON-MH-SF-004

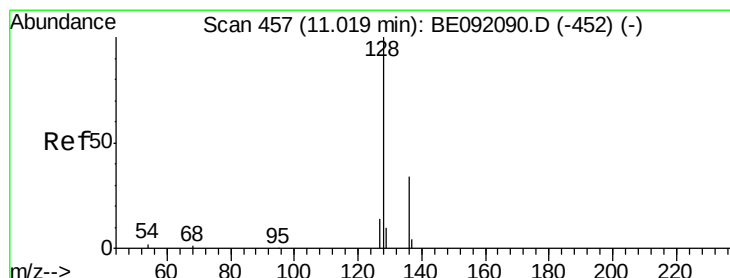
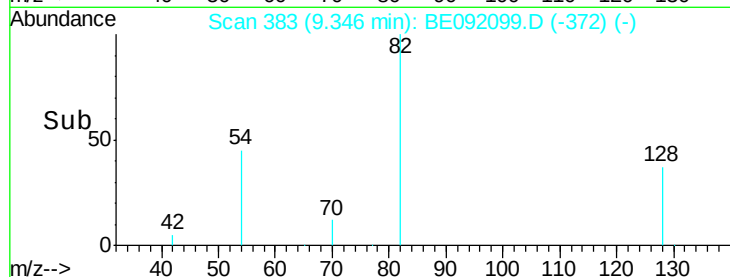
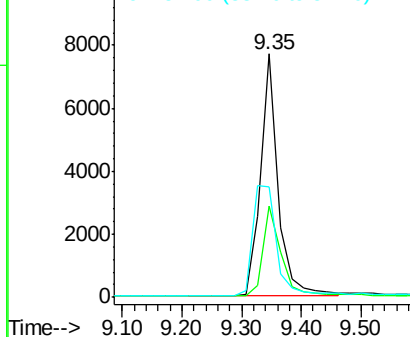
Tot Ion:	82	Resp:	15582
Ion Ratio	Lower	Upper	
82	100		
128	37.4	33.0	49.4
54	45.3	42.6	63.8

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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



#12

Naphthalene

Concen: 0.09 ng

RT: 11.02 min Scan# 457

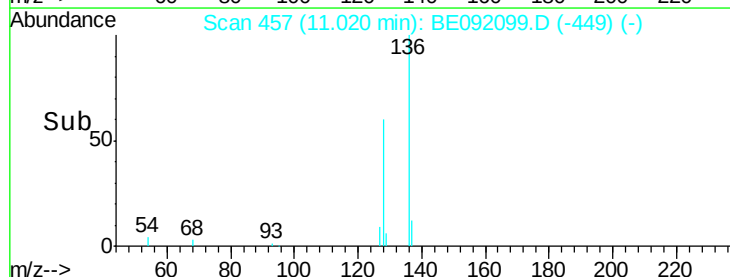
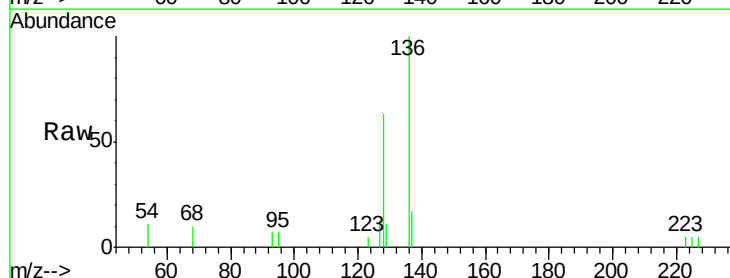
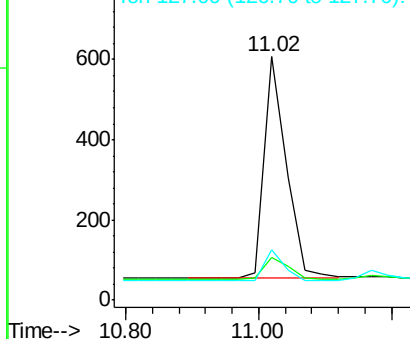
Delta R.T. 0.00 min

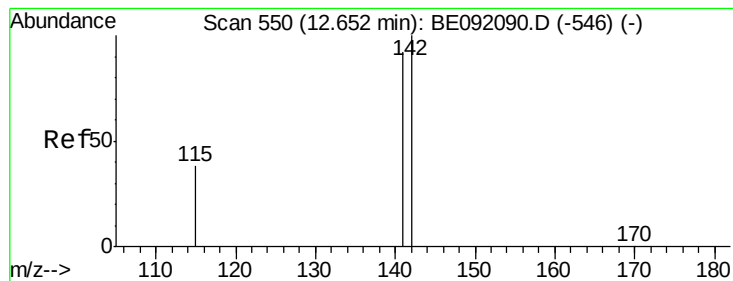
Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Tgt Ion:	128	Resp:	1264
Ion Ratio	Lower	Upper	
128	100		
129	17.6	11.1	16.7#
127	20.8	11.3	16.9#

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





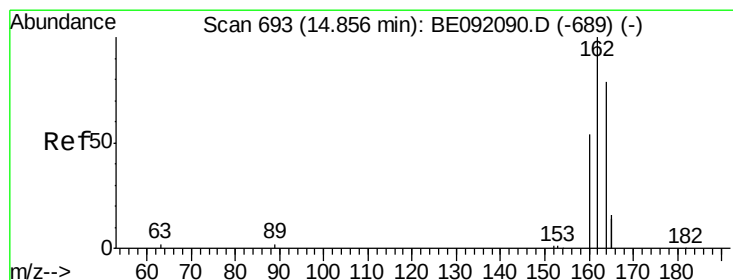
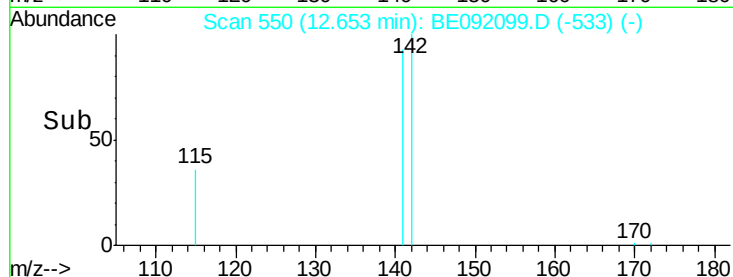
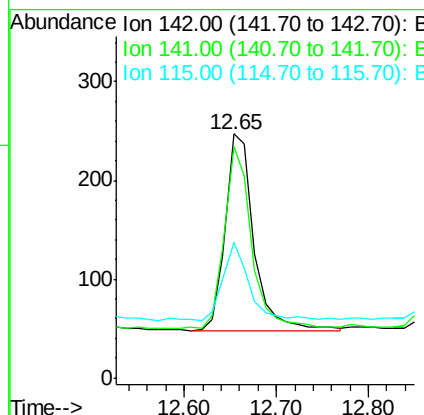
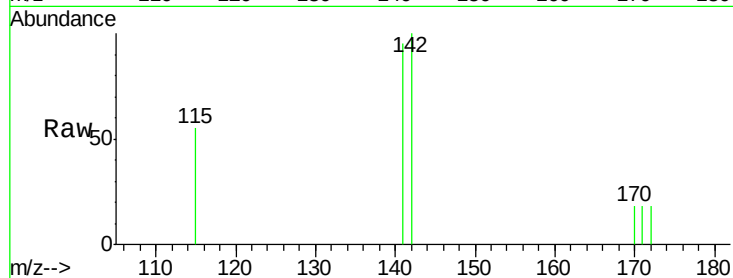
#14
2-Methylnaphthalene
Concen: 0.04 ng
RT: 12.65 min Scan# 550
Delta R.T. 0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-004

Tot Ion	Ratio	Lower	Upper
142	100		
141	94.7	65.1	97.7
115	55.5	27.0	40.4

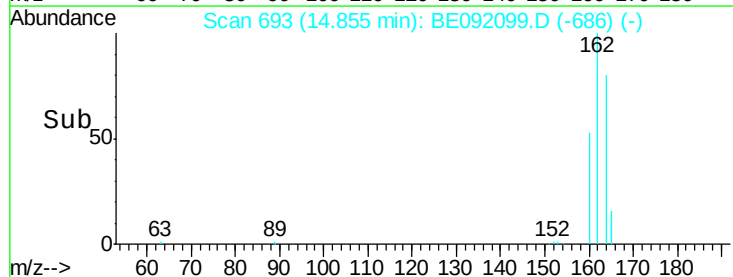
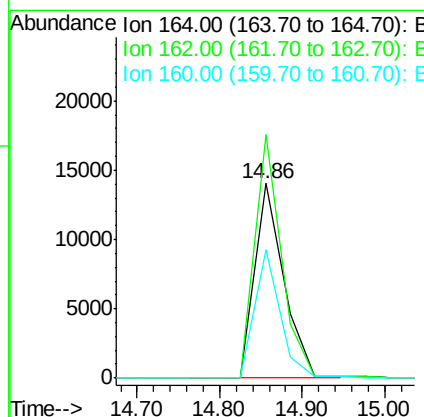
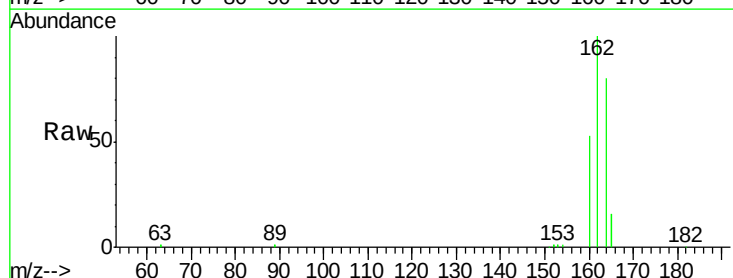
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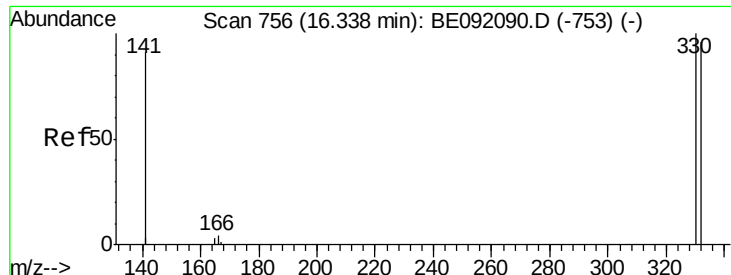
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#15
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.86 min Scan# 693
Delta R.T. -0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Tgt Ion	Ratio	Lower	Upper
164	100		
162	125.3	69.5	104.3
160	66.3	27.6	41.4





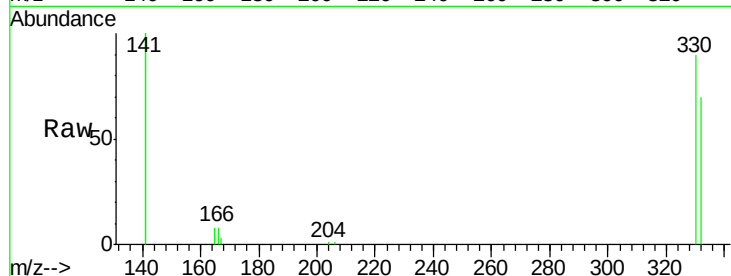
#16
 2,4,6-Tribromophenol
 Concen: 4.26 ng
 RT: 16.32 min Scan# 755
 Delta R.T. -0.02 min
 Lab File: BE092099.D
 Acq: 1 Aug 2016 19:41

Instrument :
 BNA_E
 ClientSampleId :
 TILCON-MH-SF-004

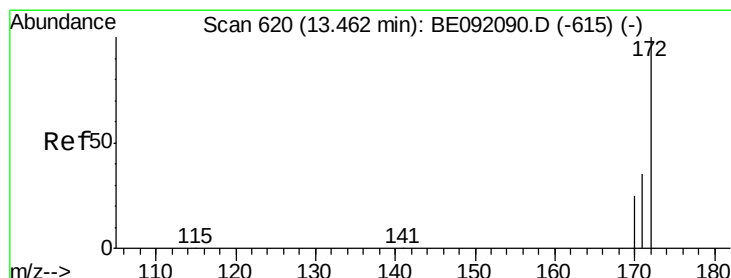
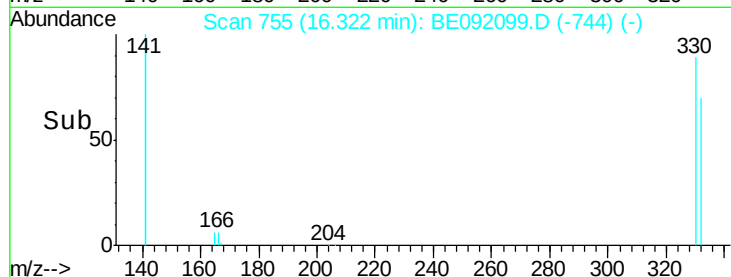
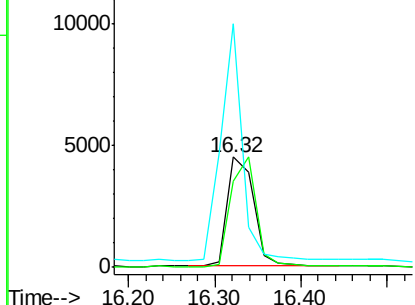
Tot Ion:330 Resp: 9561
 Ion Ratio Lower Upper
 330 100
 332 96.4 74.2 111.4
 141 177.4 139.8 209.8

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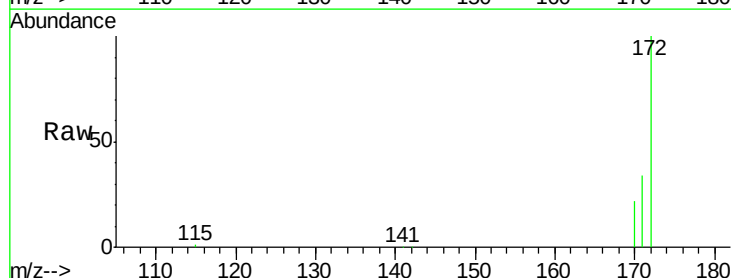


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

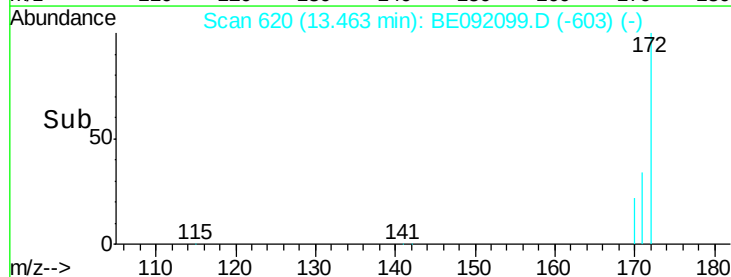
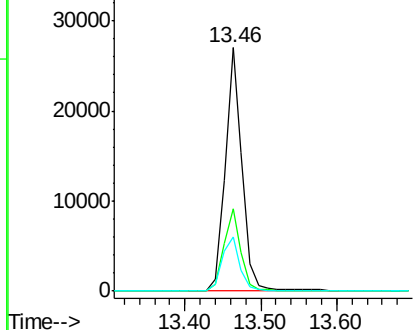


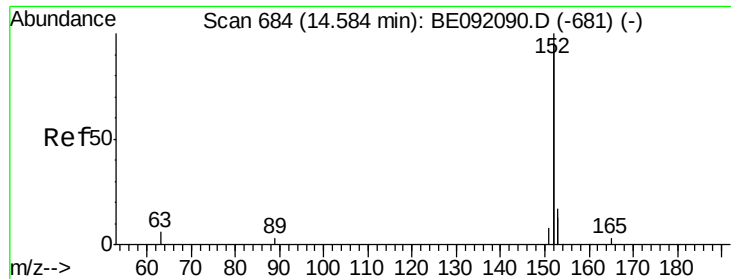
#17
 2-Fluorobiphenyl
 Concen: 3.19 ng
 RT: 13.46 min Scan# 620
 Delta R.T. 0.00 min
 Lab File: BE092099.D
 Acq: 1 Aug 2016 19:41

Tgt Ion:172 Resp: 41965
 Ion Ratio Lower Upper
 172 100
 171 33.8 30.3 45.5
 170 22.4 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





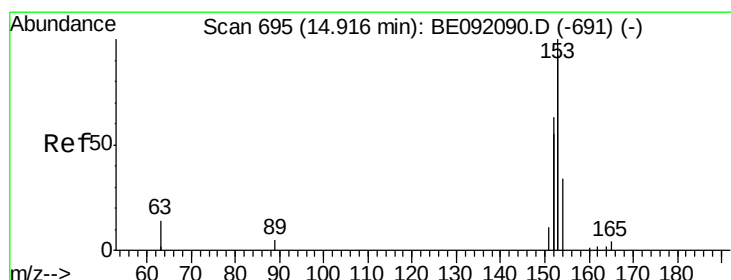
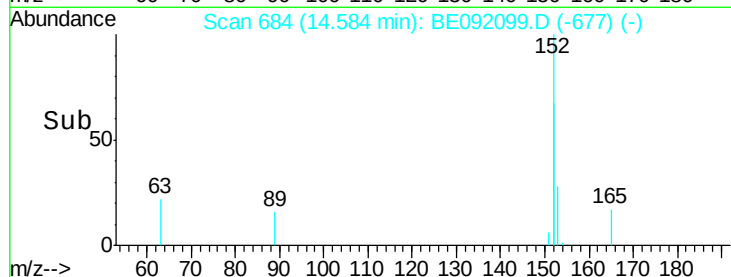
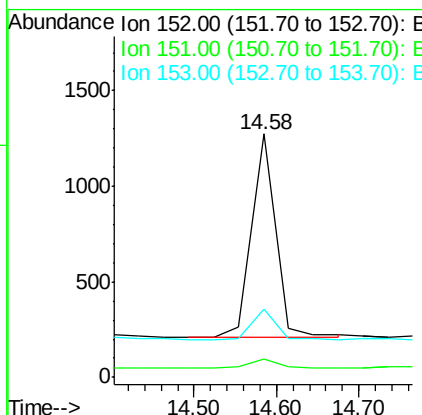
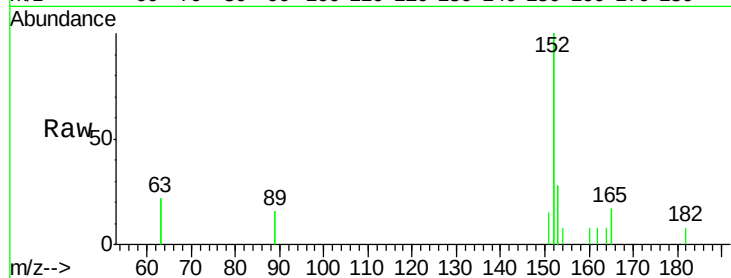
#18
Acenaphthylene
Concen: 0.03 ng
RT: 14.58 min Scan# 684
Delta R.T. -0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-004

Tot Ion	Ratio	Lower	Upper
152	100		
151	4.8	4.0	6.0
153	15.0	9.6	14.4

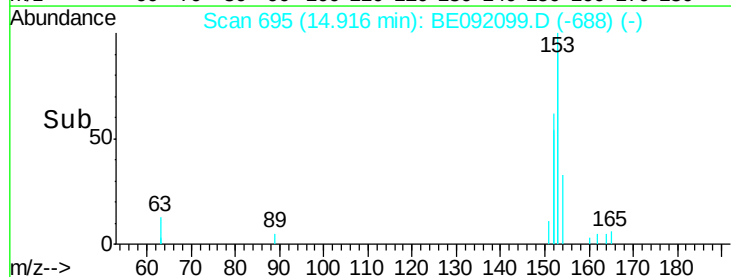
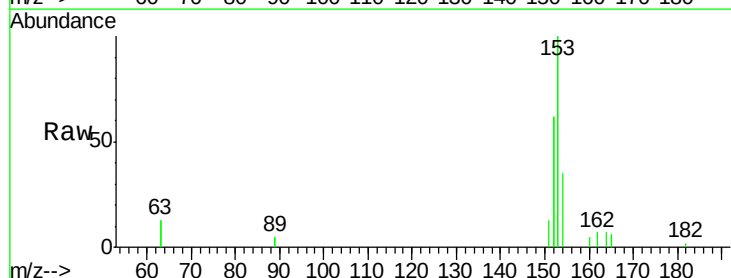
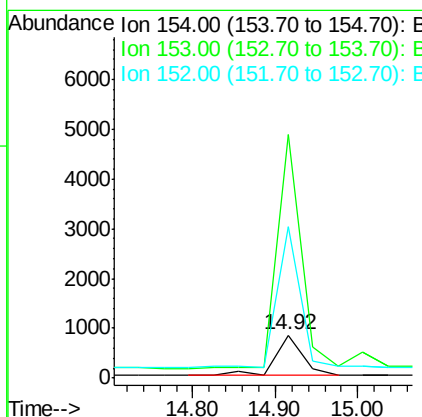
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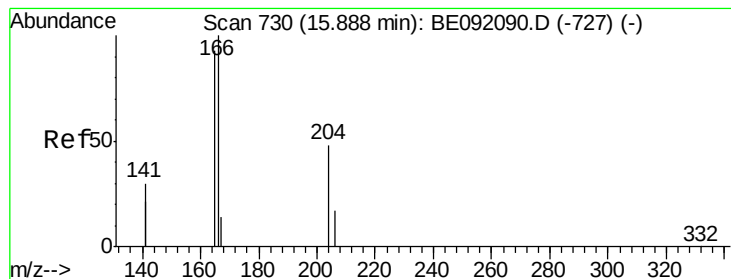
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#20
Acenaphthene
Concen: 0.18 ng
RT: 14.92 min Scan# 695
Delta R.T. -0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Tgt Ion	Ratio	Lower	Upper
154	100		
153	495.6	345.1	517.7
152	289.6	0.0	0.0





#22

Fluorene

Concen: 0.17 ng

RT: 15.89 min Scan# 730

Delta R.T. 0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Instrument :

BNA_E

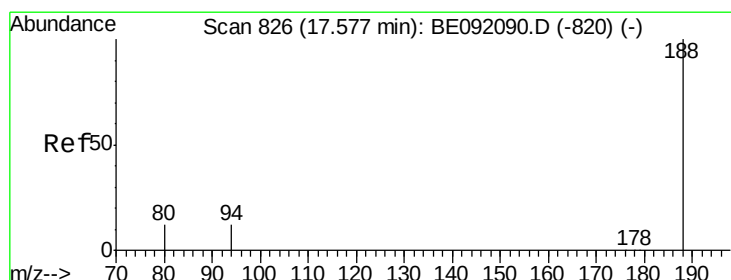
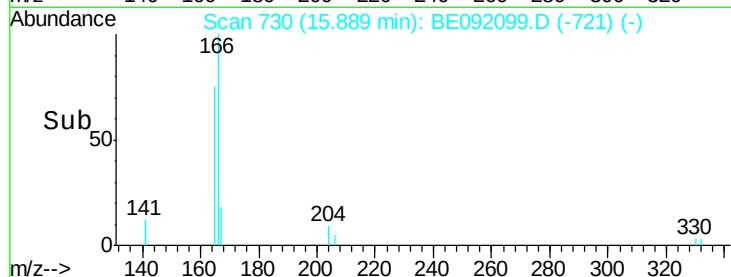
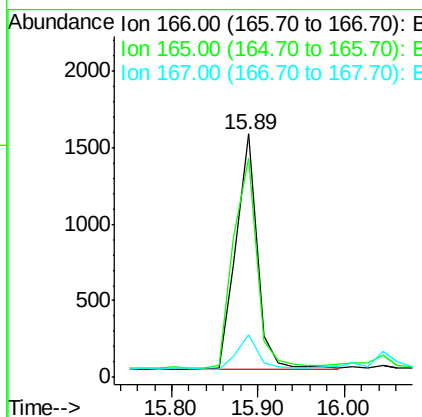
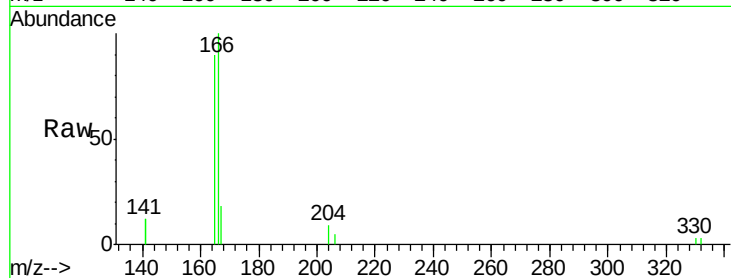
ClientSampleId :

TILCON-MH-SF-004

Tot Ion:	166	Resp:	2627
Ion Ratio	Lower	Upper	
166	100		
165	99.1	78.6	118.0
167	14.8	11.1	16.7

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#24

Phenanthrene-d10

Concen: 5.00 ng

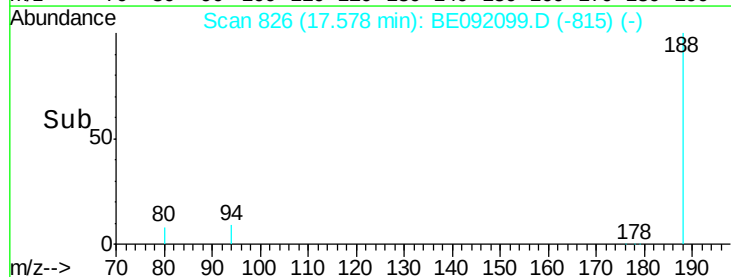
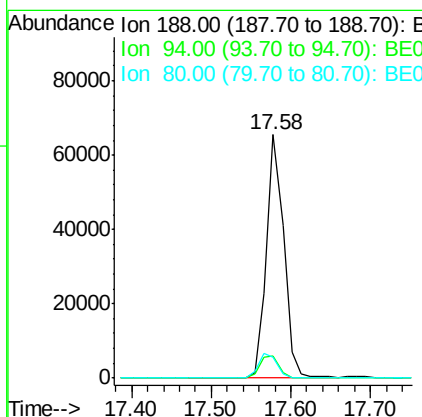
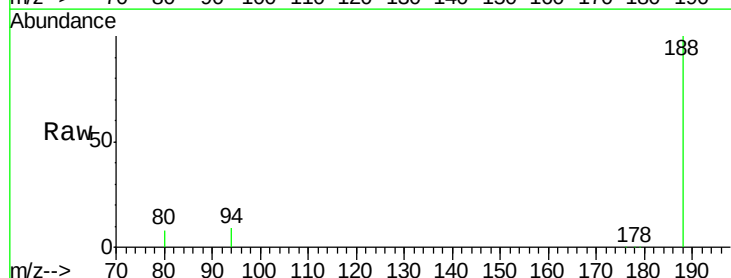
RT: 17.58 min Scan# 826

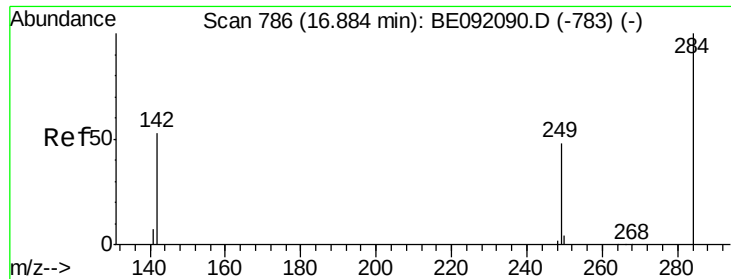
Delta R.T. 0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Tgt Ion:	188	Resp:	121950
Ion Ratio	Lower	Upper	
188	100		
94	9.0	3.9	5.9#
80	8.5	3.4	5.0#





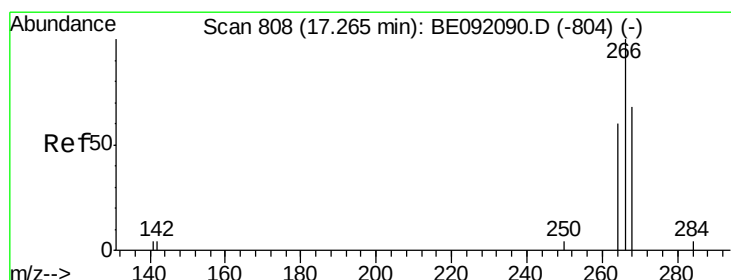
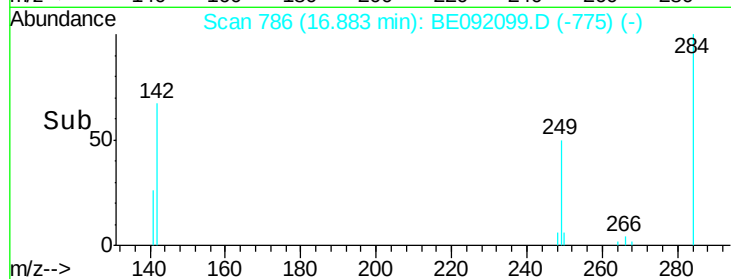
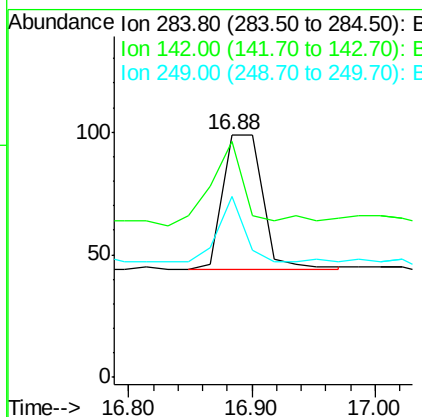
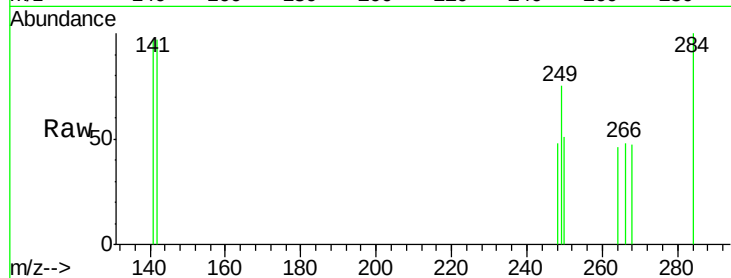
#26
Hexachlorobenzene
Concen: 0.03 ng
RT: 16.88 min Scan# 786
Delta R.T. -0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-004

Tot Ion	Ratio	Lower	Upper
284	100		
142	49.6	33.3	49.9
249	34.4	25.4	38.0

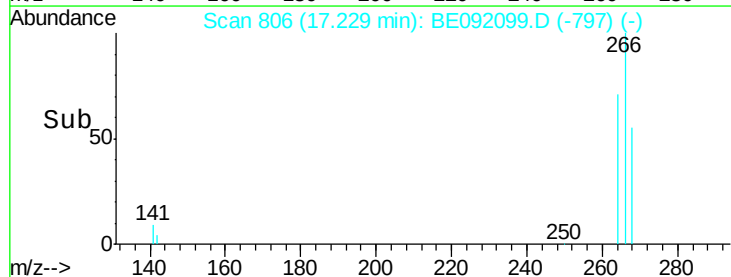
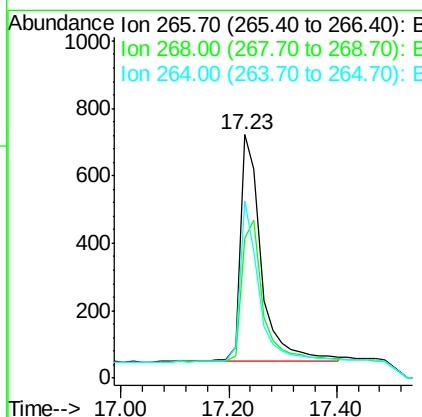
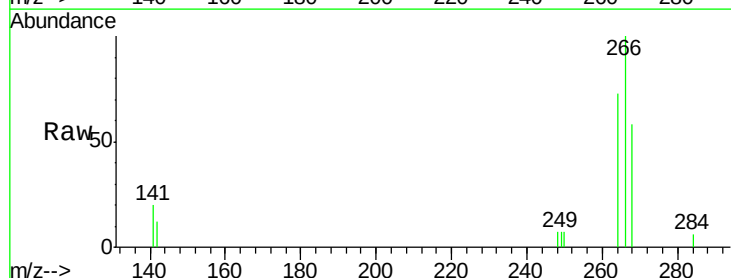
Manual Integrations
APPROVED

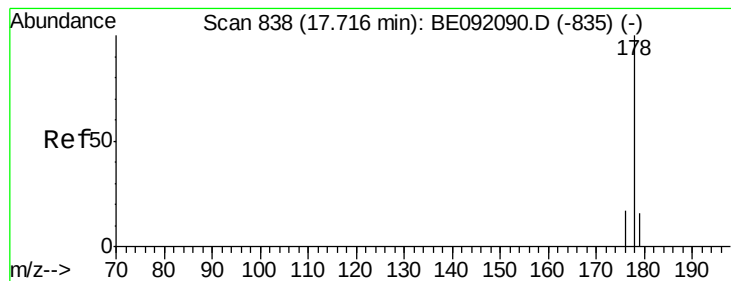
sohil
8/2/2016 5:28:49 PM



#27
Pentachlorophenol
Concen: 2.68 ng
RT: 17.23 min Scan# 806
Delta R.T. -0.04 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Tgt Ion	Ratio	Lower	Upper
266	100		
268	57.6	62.7	94.1#
264	72.6	63.5	95.3





#28

Phenanthrene

Concen: 1.41 ng

RT: 17.62 min Scan# 830

Delta R.T. 0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Instrument :

BNA_E

ClientSampleId :

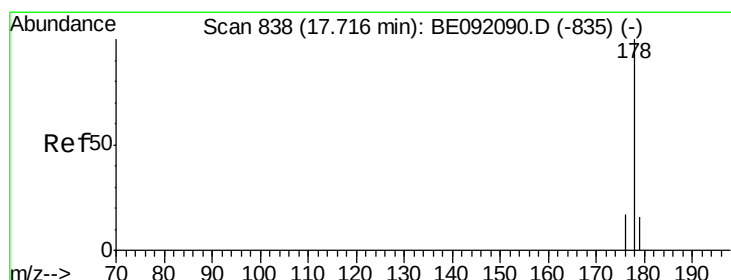
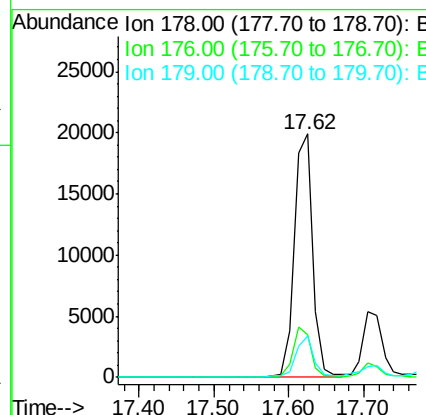
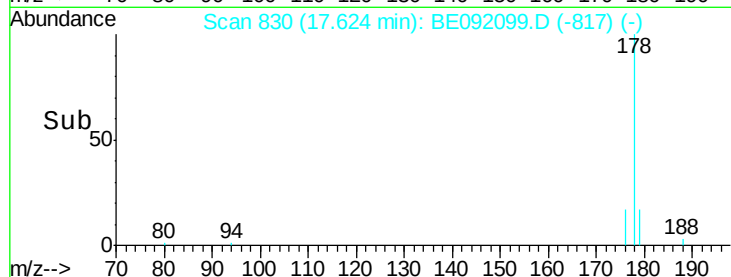
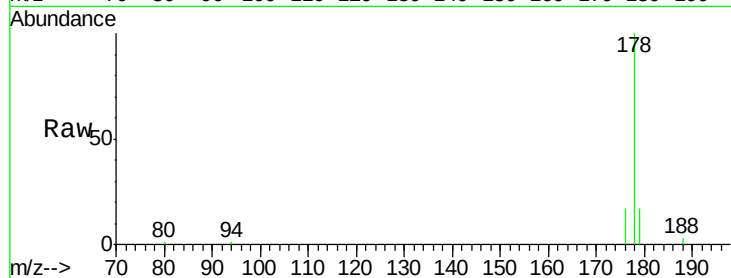
TILCON-MH-SF-004

Tot Ion:178 Resp: 41981

Ion	Ratio	Lower	Upper
178	100		
176	20.6	15.4	23.0
179	17.4	12.7	19.1

Manual Integrations
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#29

Anthracene

Concen: 0.42 ng m

RT: 17.71 min Scan# 837

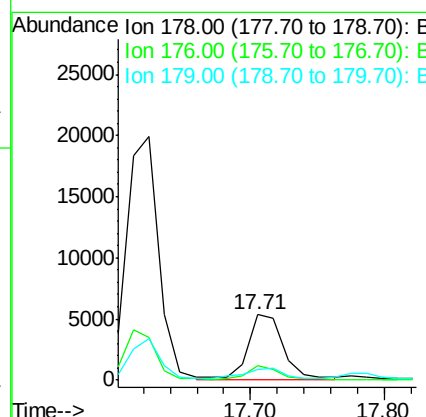
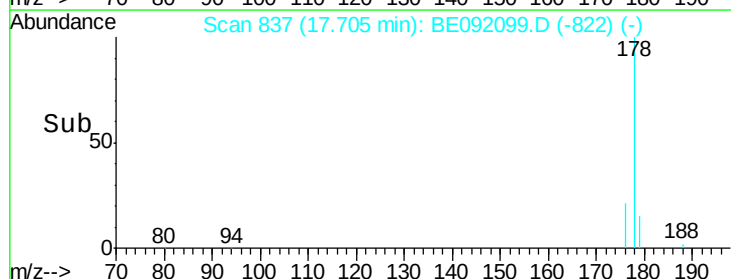
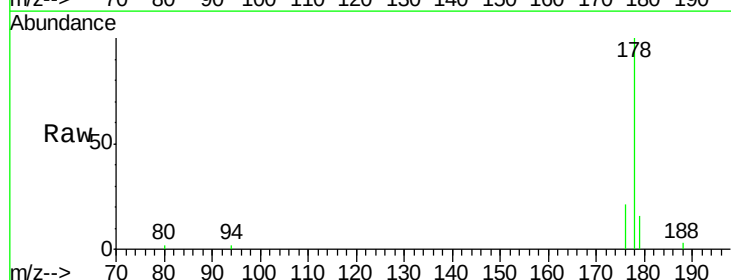
Delta R.T. -0.01 min

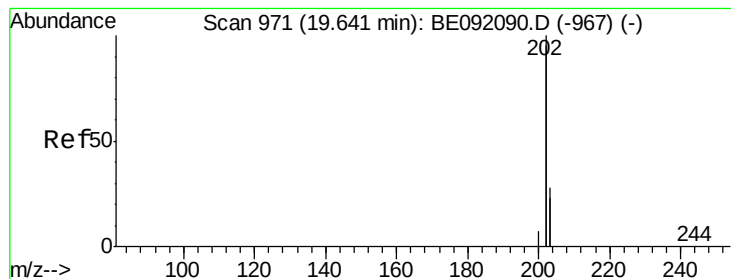
Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Tgt Ion:178 Resp: 10257

Ion	Ratio	Lower	Upper
178	100		
176	63.8	15.2	22.8#
179	51.3	12.2	18.4#





#30

Fluoranthene

Concen: 1.97 ng

RT: 19.61 min Scan# 970

Delta R.T. -0.03 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Instrument :

BNA_E

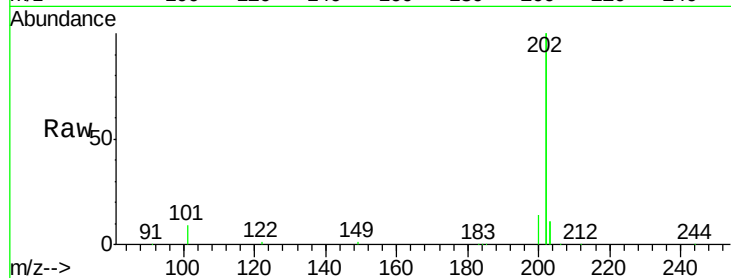
ClientSampleId :

TILCON-MH-SF-004

Tot Ion	Ratio	Lower	Upper
202	100		
101	3.7	2.2	3.2#
203	14.6	13.0	19.4

Manual Integrations
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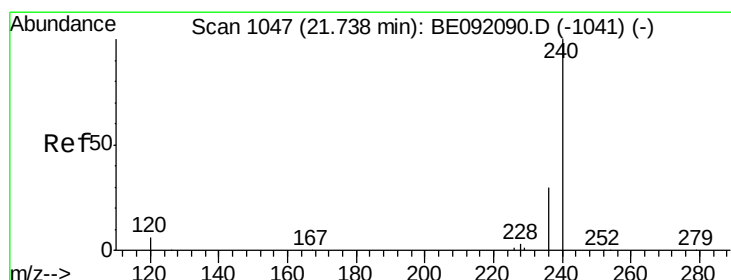
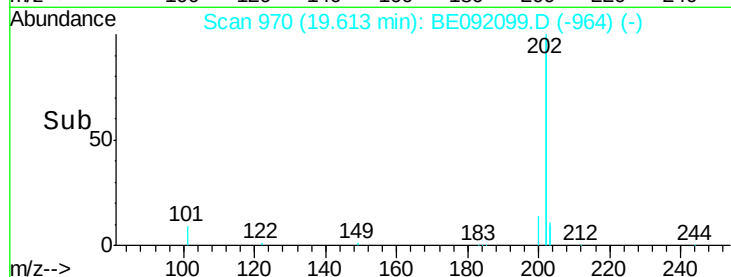
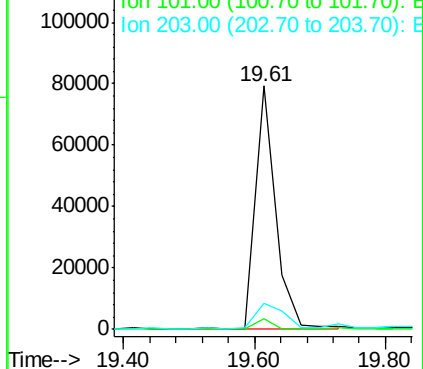
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Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#31

Chrysene-d12

Concen: 5.00 ng

RT: 21.74 min Scan# 1047

Delta R.T. -0.00 min

Lab File: BE092099.D

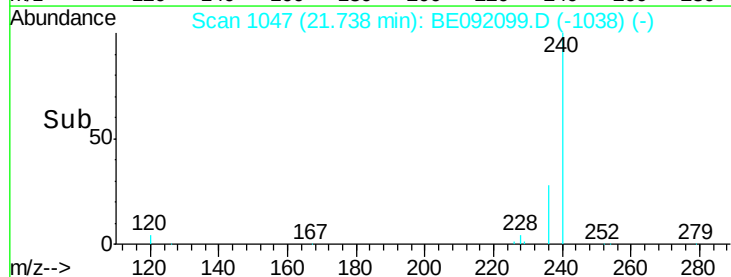
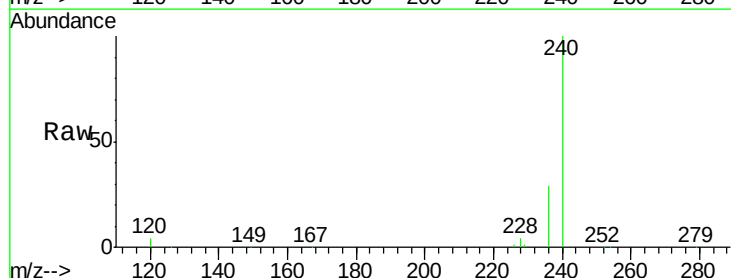
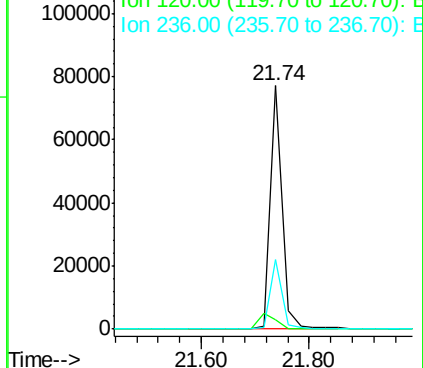
Acq: 1 Aug 2016 19:41

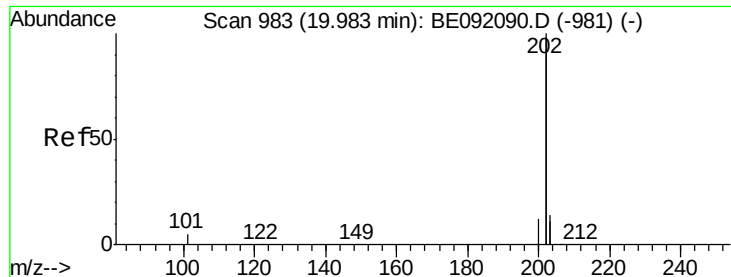
Tgt Ion	Ratio	Lower	Upper
240	100		
120	3.9	0.6	1.0#
236	28.6	18.2	27.4#

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





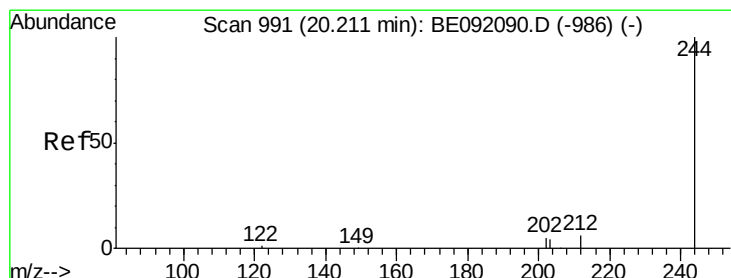
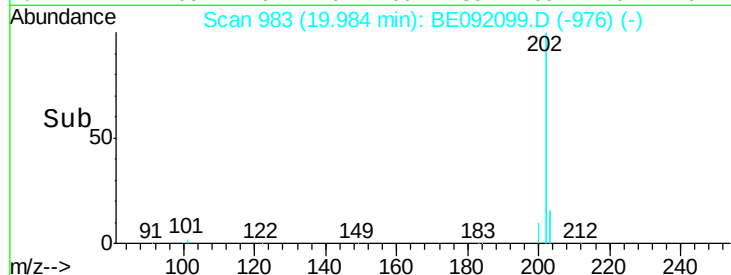
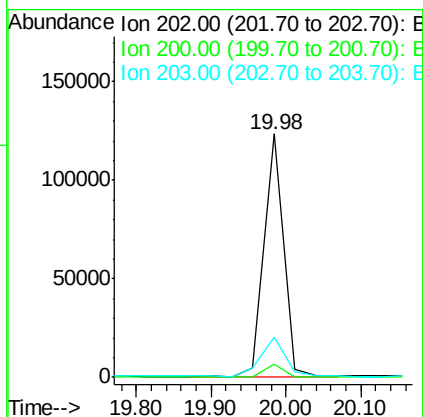
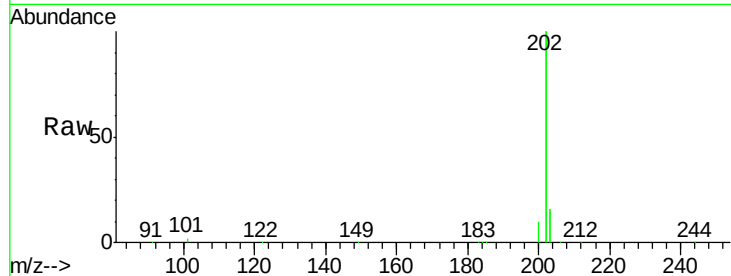
#33
Pvrene
Concen: 1.68 ng
RT: 19.98 min Scan# 983
Delta R.T. 0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-004

Tot Ion	Ratio	Resp Lower	Upper
202	100		
200	5.2	4.4	6.6
203	19.0	13.4	20.0

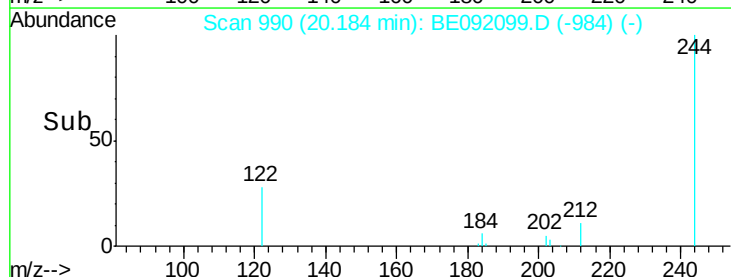
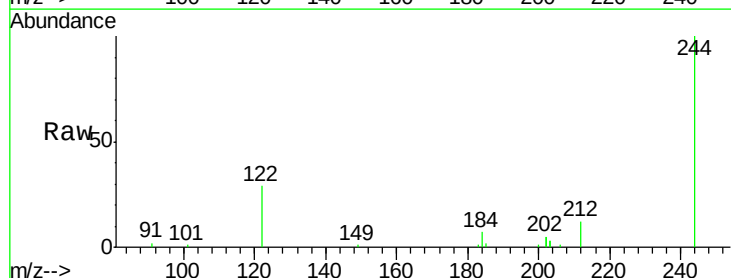
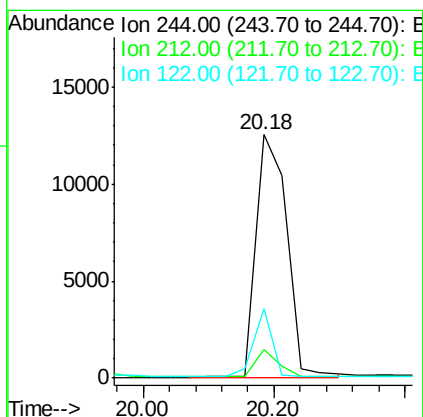
Manual Integrations
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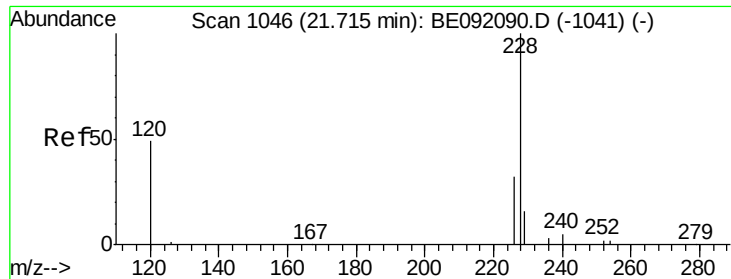
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#34
Terphenyl-d14
Concen: 3.51 ng
RT: 20.18 min Scan# 990
Delta R.T. -0.03 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Tgt Ion	Ratio	Resp Lower	Upper
244	100		
212	11.7	9.1	13.7
122	28.7	11.0	16.4





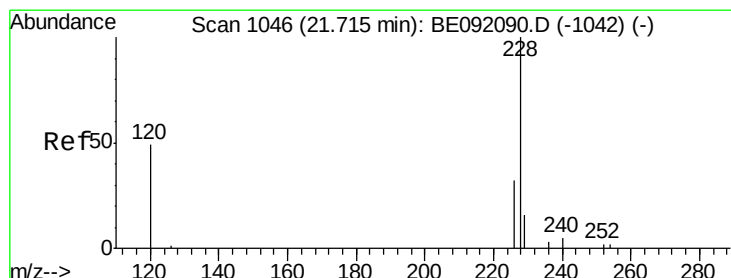
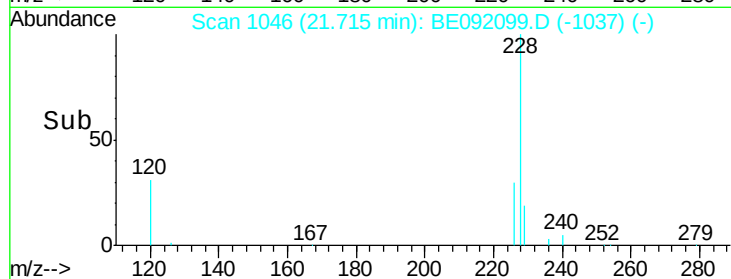
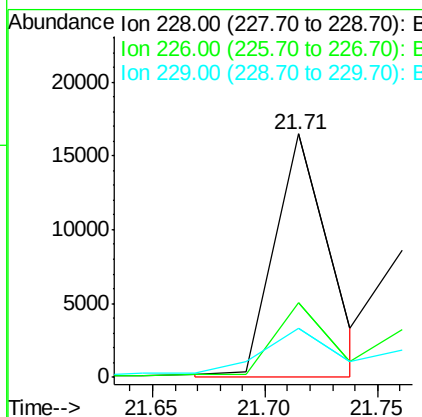
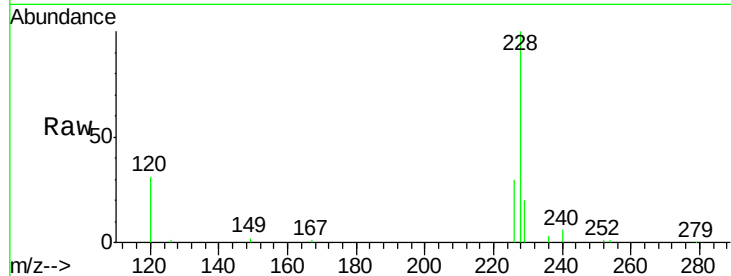
#35
Benzo(a)anthracene
Concen: 0.94 ng m
RT: 21.71 min Scan# 1046
Delta R.T. -0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-004

Tot Ion	Ratio	Lower	Upper
228	100		
226	30.5	22.1	33.1
229	20.2	15.1	22.7

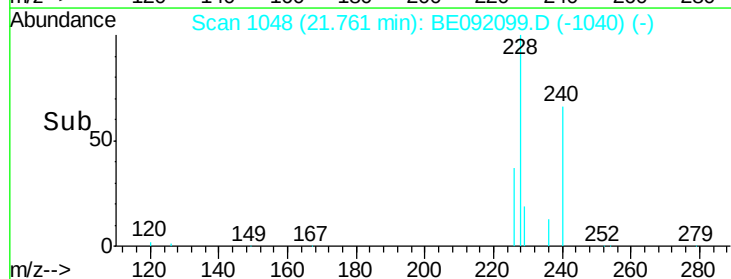
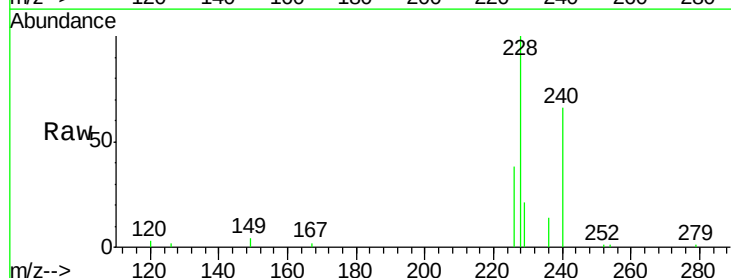
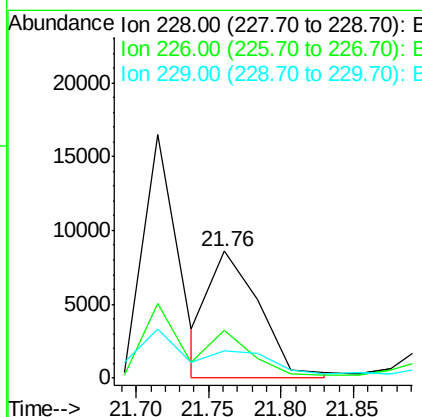
Manual Integrations
APPROVED

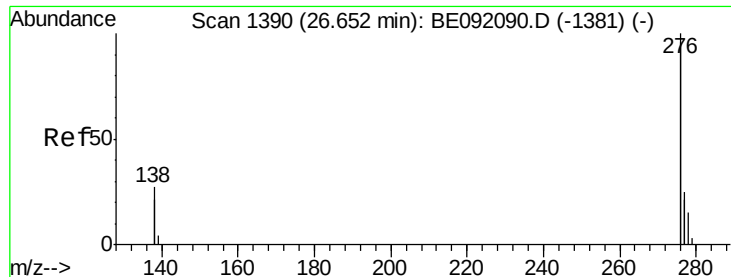
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#37
Chrysene
Concen: 0.72 ng m
RT: 21.76 min Scan# 1048
Delta R.T. -0.02 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	37.7	22.3	33.5#
229	21.1	16.9	25.3





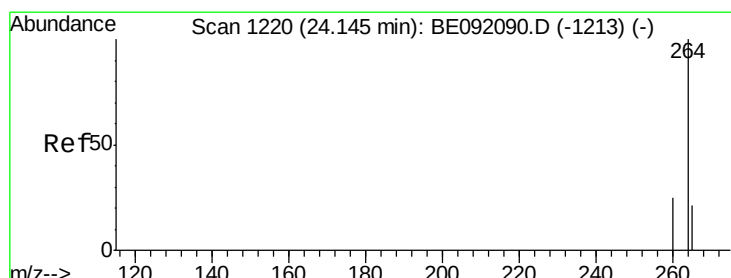
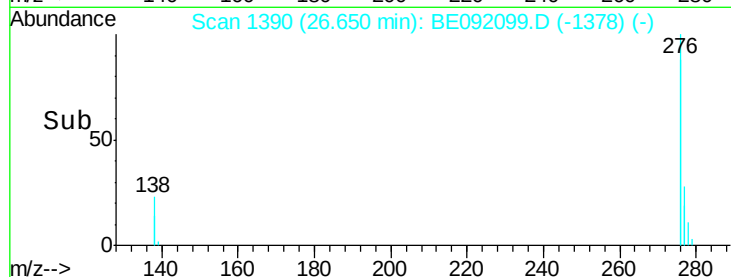
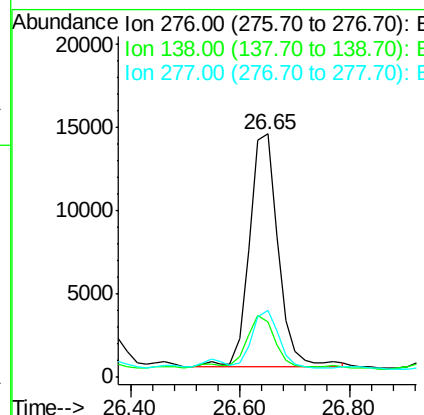
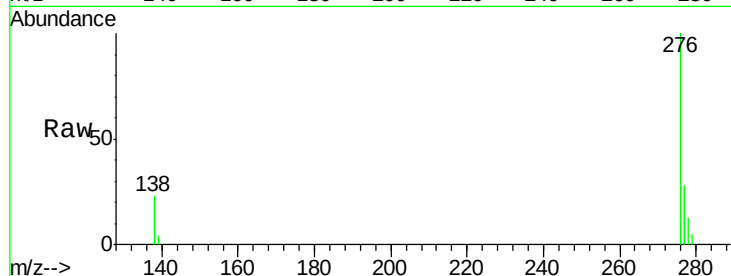
#39
Indeno(1,2,3-cd)pyrene
Concen: 0.41 ng
RT: 26.65 min Scan# 1390
Delta R.T. -0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Instrument :
BNA_E
ClientSampleId :
TILCON-MH-SF-004

Tot Ion	Ratio	Lower	Upper
276	100		
138	22.5	21.2	31.8
277	22.9	19.8	29.8

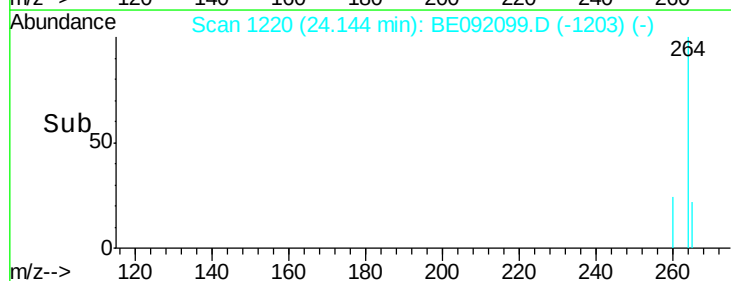
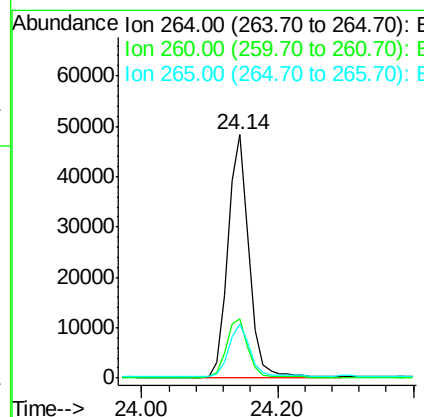
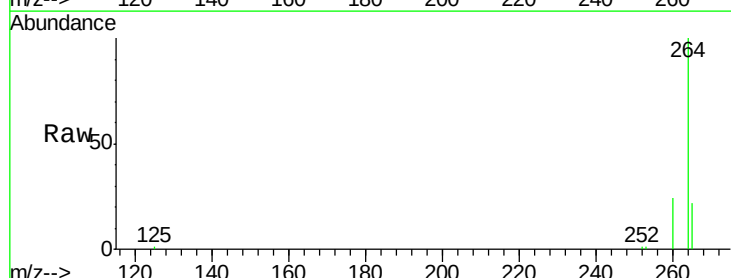
Manual Integrations
APPROVED

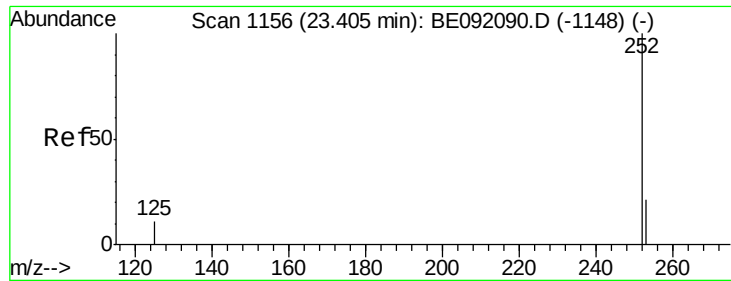
sohil
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#40
Perylene-d12
Concen: 5.00 ng
RT: 24.14 min Scan# 1220
Delta R.T. -0.00 min
Lab File: BE092099.D
Acq: 1 Aug 2016 19:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.4	20.8	31.2
265	22.2	16.6	25.0





#41

Benzo(b)fluoranthene

Concen: 1.06 ng m

RT: 23.40 min Scan# 1156

Delta R.T. -0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Instrument :

BNA_E

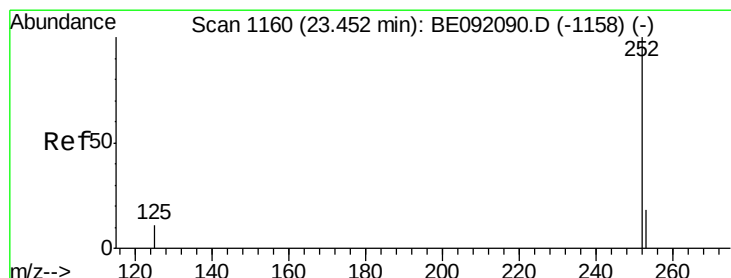
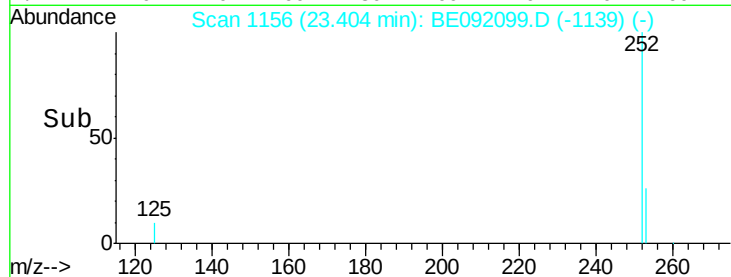
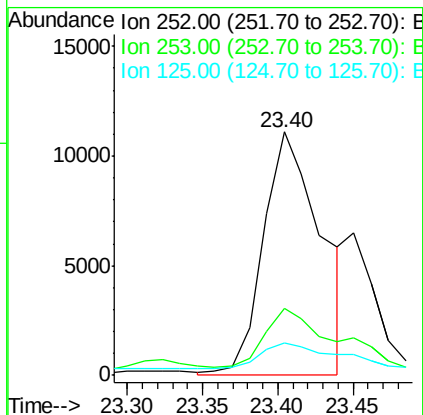
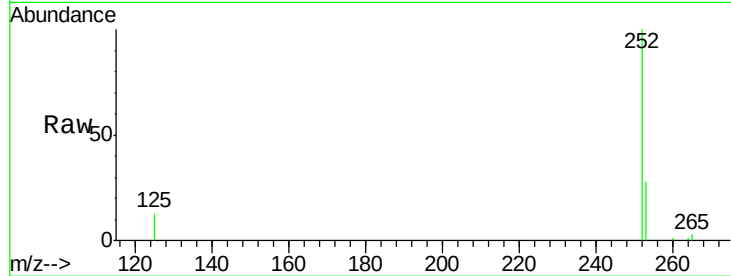
ClientSampleId :

TILCON-MH-SF-004

Tot Ion:	252	Resp:	29558
Ion Ratio	Lower	Upper	
252	100		
253	27.7	17.4	26.0#
125	13.2	10.2	15.2

Manual Integrations
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#42

Benzo(k)fluoranthene

Concen: 0.34 ng m

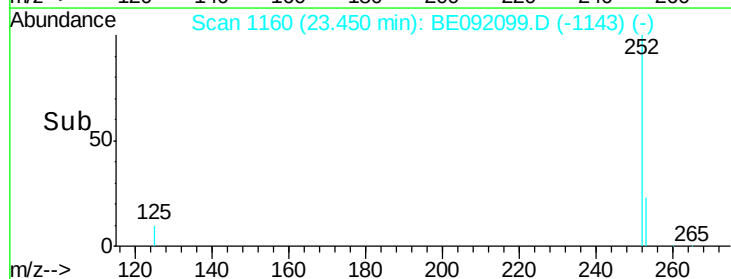
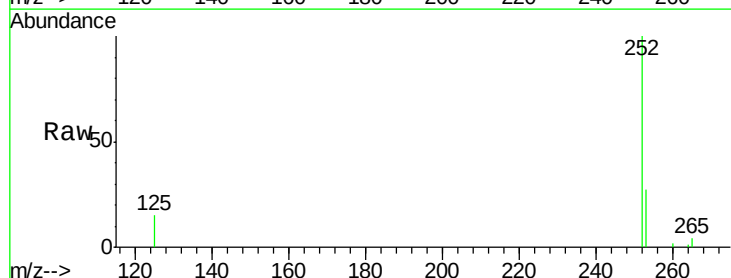
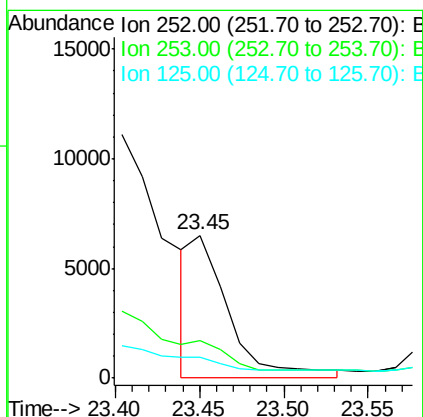
RT: 23.45 min Scan# 1160

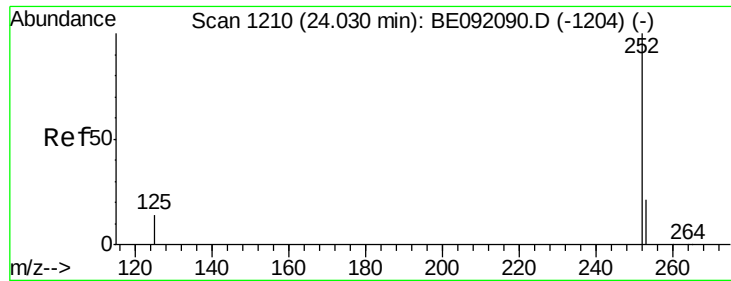
Delta R.T. -0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Tgt Ion:	252	Resp:	10119
Ion Ratio	Lower	Upper	
252	100		
253	26.5	19.4	29.0
125	14.6	8.9	13.3#





#43

Benzo(a)pyrene

Concen: 0.74 ng

RT: 24.03 min Scan# 1210

Delta R.T. -0.00 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Instrument :

BNA_E

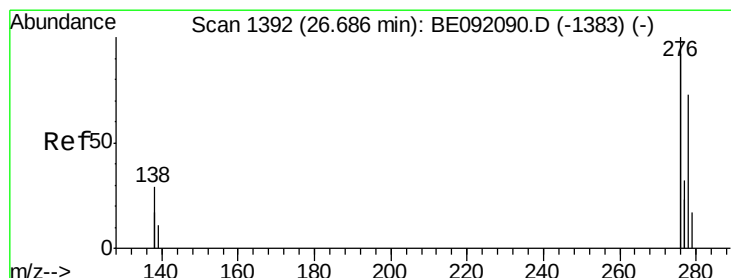
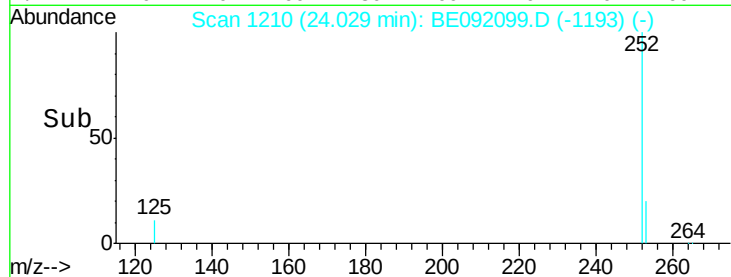
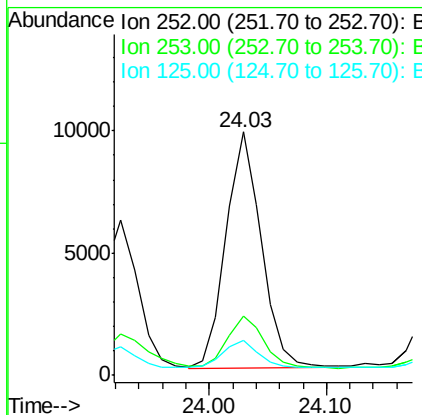
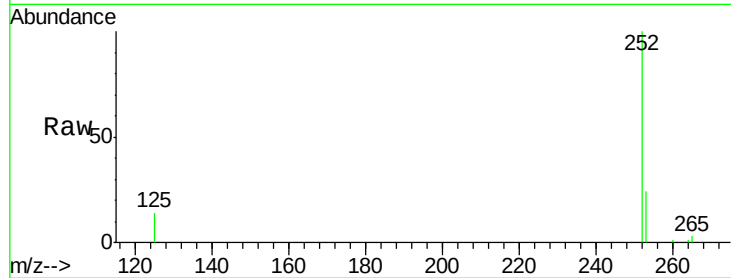
ClientSampleId :

TILCON-MH-SF-004

Tot Ion:	252	Resp:	20241
Ion Ratio	Lower	Upper	
252	100		
253	24.3	19.8	29.8
125	14.2	10.4	15.6

Manual Integrations
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#44

Dibenzo(a,h)anthracene

Concen: 0.13 ng

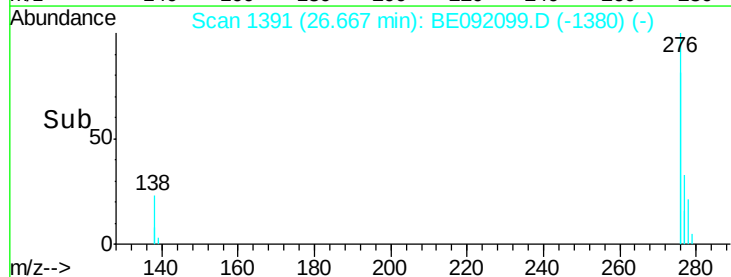
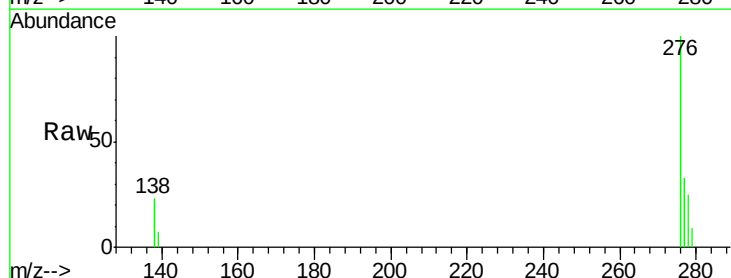
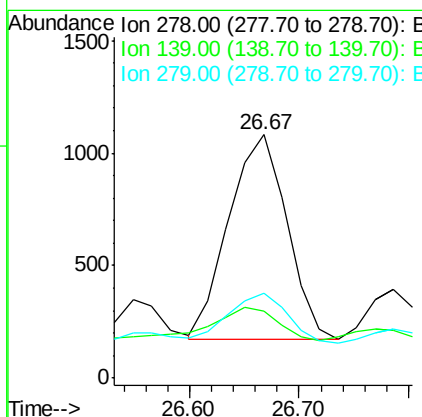
RT: 26.67 min Scan# 1391

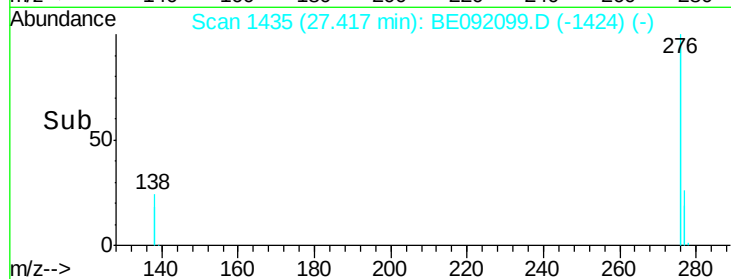
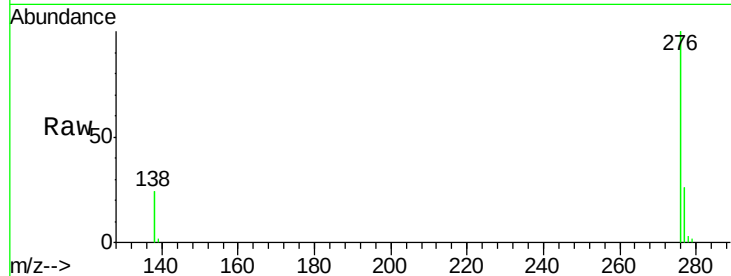
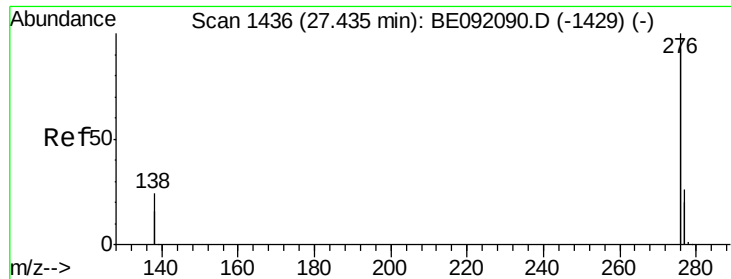
Delta R.T. -0.02 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Tgt Ion:	278	Resp:	3348
Ion Ratio	Lower	Upper	
278	100		
139	27.7	16.7	25.1#
279	35.1	20.3	30.5#





#45

Benzo(a,h,i)perylene

Concen: 0.50 ng

RT: 27.42 min Scan# 1435

Delta R.T. -0.02 min

Lab File: BE092099.D

Acq: 1 Aug 2016 19:41

Tot Ion:	276	Resp:	53377
Ion Ratio	Lower	Upper	
276	100		
277	26.0	19.5	29.3
138	24.3	20.8	31.2

Instrument :

BNA_E

ClientSampleId :

TILCON-MH-SF-004

Manual Integrations
APPROVED

sohil
8/2/2016 5:28:49 PM

