

Data Path : Z:\HPCHEM1\BNA E\DATA\BE122716\
 Data File : BE092627.D
 Acq On : 27 Dec 2016 19:10
 Operator : UM/SJ
 Sample : H6103-06
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER-06-QT1-2017

Manual Integrations
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sohil
 12/28/2016 9:49:16 AM

Quant Time: Dec 28 13:15:08 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Dec 19 16:16:32 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.14	152	10113	5.00	ng	0.00
7) Naphthalene-d8	10.93	136	41677	5.00	ng	0.00
12) Acenaphthene-d10	14.80	164	24131	5.00	ng	0.00
18) Phenanthrene-d10	17.56	188	43976	5.00	ng	0.00
24) Chrysene-d12	21.72	240	47588	5.00	ng	0.00
31) Perylene-d12	24.08	264	44768	5.00	ng	0.01

System Monitoring Compounds						
4) 2-Fluorophenol	5.65	112	18172	9.26	ng	-0.03
5) Phenol-d6	7.31	99	23621	7.96	ng	-0.07
8) Nitrobenzene-d5	9.34	82	10955	3.84	ng	-0.02
13) 2,4,6-Tribromophenol	16.30	330	3684	5.34	ng	-0.01
14) 2-Fluorobiphenyl	13.42	172	25548	4.43	ng	-0.01
26) Terphenyl-d14	20.16	244	27029	4.63	ng	-0.02

Target Compounds						Qvalue
2) 1,4-Dioxane	3.40	88	495	0.26	ng	# 1
3) n-Nitrosodimethylamine	3.83	42	99	0.25	ng	# 21
6) bis(2-Chloroethyl)ether	7.59	93	394	0.24	ng	# 26
9) Naphthalene	10.99	128	1494	0.17	ng	# 85
10) Hexachlorobutadiene	11.26	225	264	0.20	ng	90
11) 2-Methylnaphthalene	12.65	142	810	0.15	ng	93
15) Acenaphthylene	14.51	152	5507	0.17	ng	100
16) Acenaphthene	14.87	154	991	0.18	ng	91
17) Fluorene	15.86	166	1027	0.15	ng	96
19) Hexachlorobenzene	16.86	284	325m	0.17	ng	
20) Pentachlorophenol	17.26	266	33m	0.12	ng	
21) Phenanthrene	17.60	178	1807	0.16	ng	# 77
22) Anthracene	17.72	178	1482	0.15	ng	# 75
23) Fluoranthene	19.61	202	6772	0.14	ng	99
25) Pyrene	19.97	202	6772	0.16	ng	99
27) Benzo(a)anthracene	21.70	228	6398m	0.15	ng	
28) Chrysene	21.75	228	9355m	0.19	ng	
29) Bis(2-ethylhexyl)phthalate	21.61	149	618	0.21	ng	# 77
30) Indeno(1,2,3-cd)pyrene	26.60	276	8025	0.18	ng	99
32) Benzo(b)fluoranthene	23.36	252	1636	0.16	ng	# 87
33) Benzo(k)fluoranthene	23.40	252	1952	0.17	ng	# 87
34) Benzo(a)pyrene	23.97	252	1530	0.15	ng	# 80
35) Dibenzo(a,h)anthracene	26.62	278	1564	0.17	ng	# 73
36) Benzo(g,h,i)perylene	27.35	276	7484	0.19	ng	# 85

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

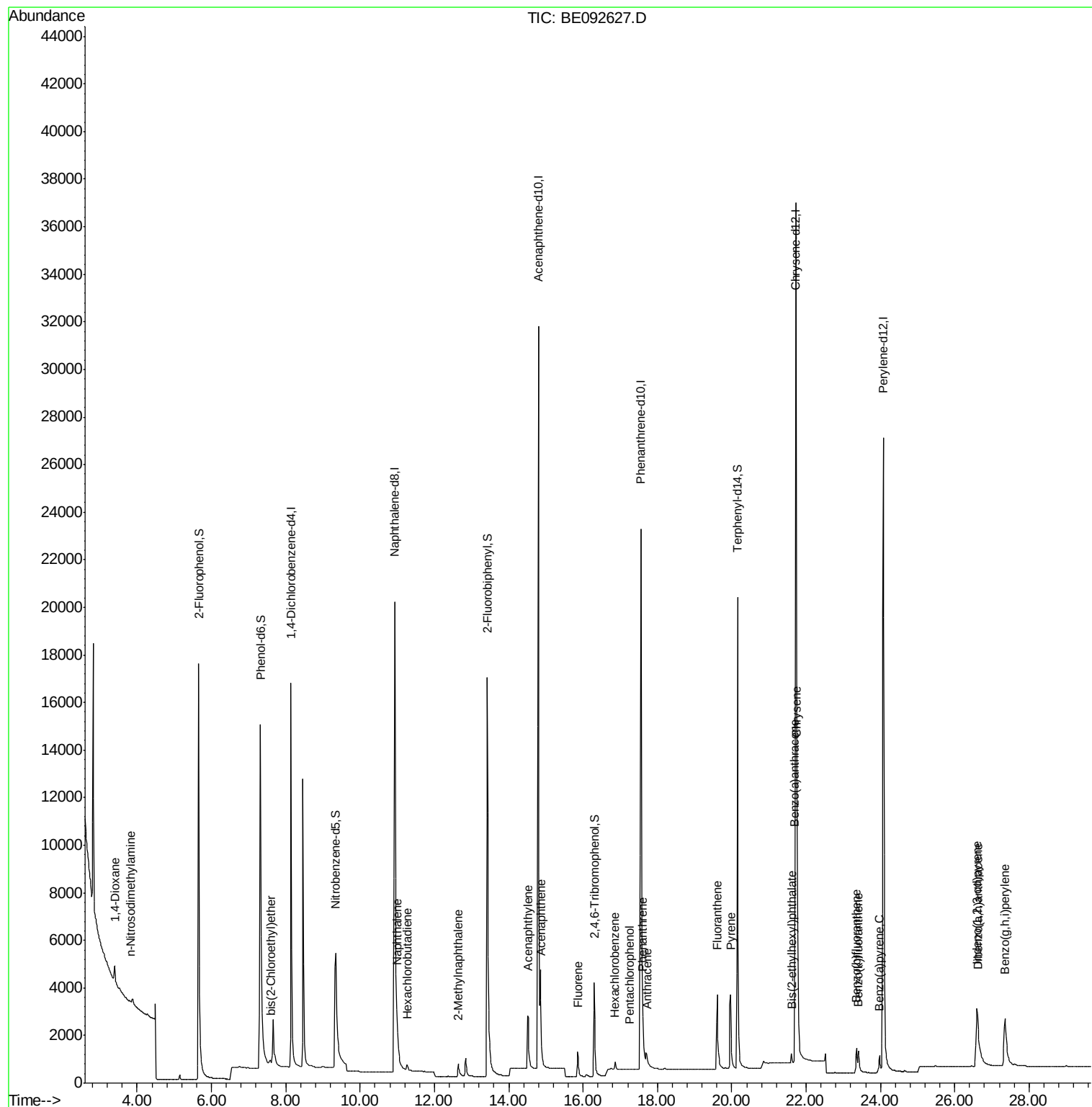
Data Path : Z:\HPCHEM1\BNA E\DATA\BE122716\
Data File : BE092627.D
Acq On : 27 Dec 2016 19:10
Operator : UM/SJ
Sample : H6103-06
Misc :
ALS Vial : 12 Sample Multiplier: 1

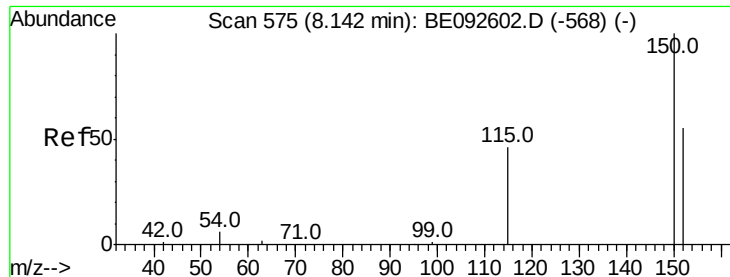
Instrument :
BNA_E
ClientSampleId :
LOQ-WATER-06-QT1-2017

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Quant Time: Dec 28 13:15:08 2016
Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 19 16:16:32 2016
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

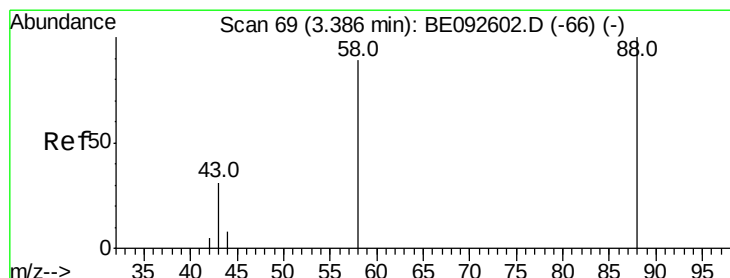
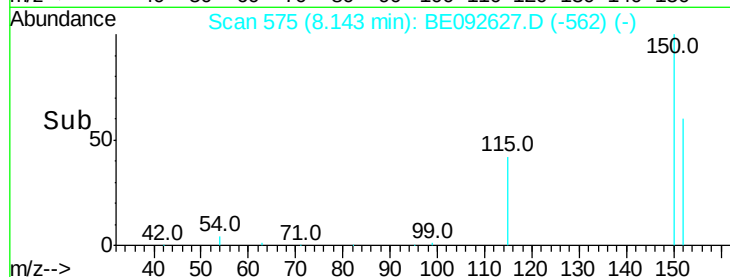
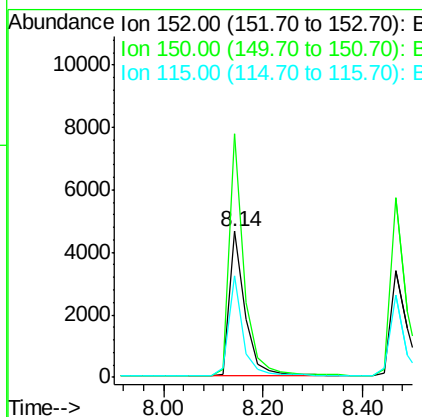
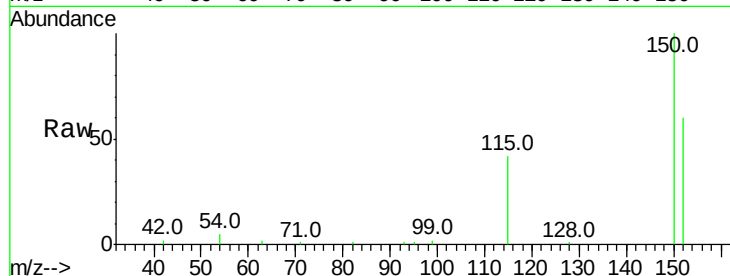
ClientSampleId :

LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
152	100		
150	167.0	106.0	159.0#
115	70.0	31.2	46.8#

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#2

1,4-Dioxane

Concen: 0.26 ng

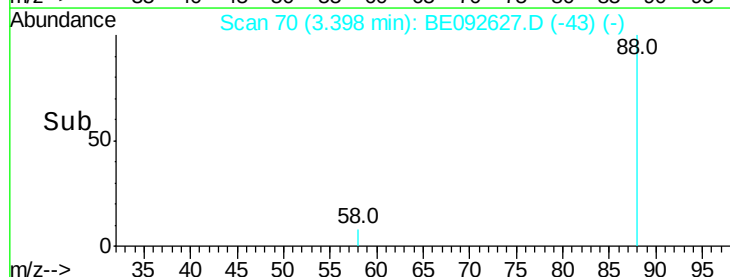
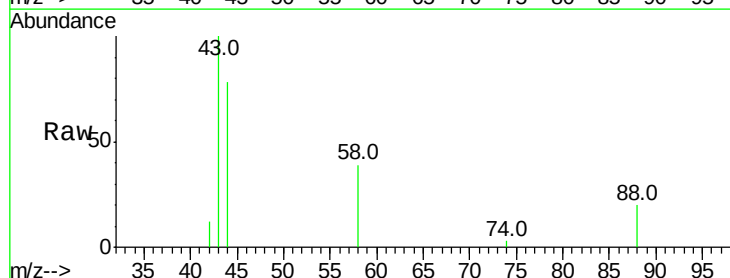
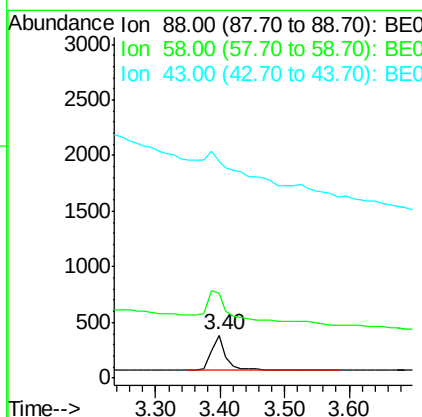
RT: 3.40 min Scan# 70

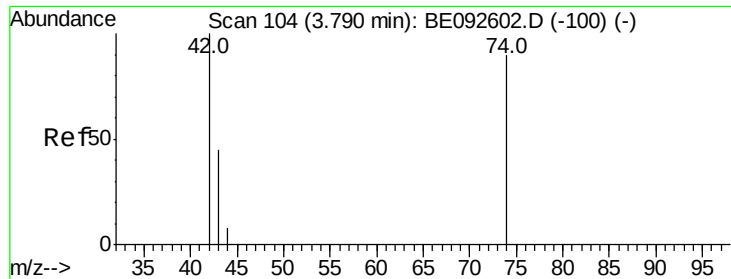
Delta R.T. 0.01 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
88	100		
58	241.0	63.6	95.4#
43	0.0	28.0	42.0#





#3

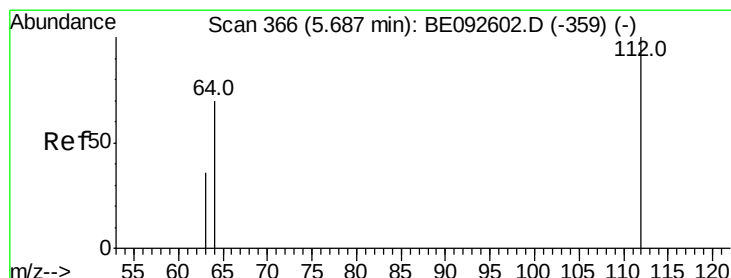
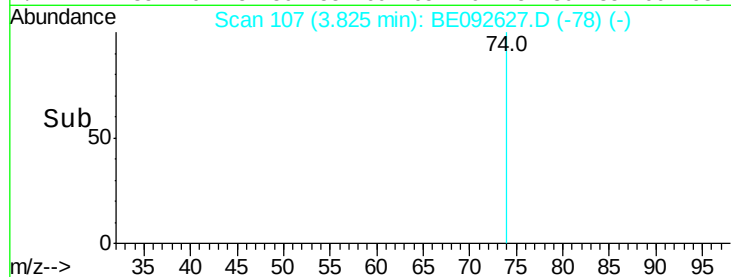
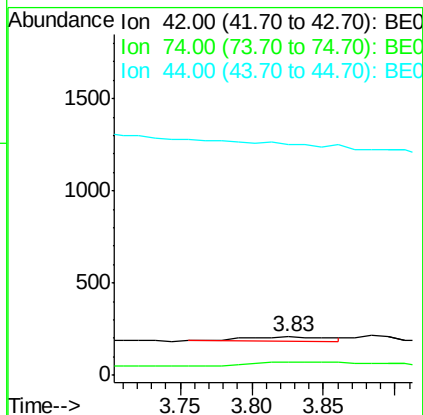
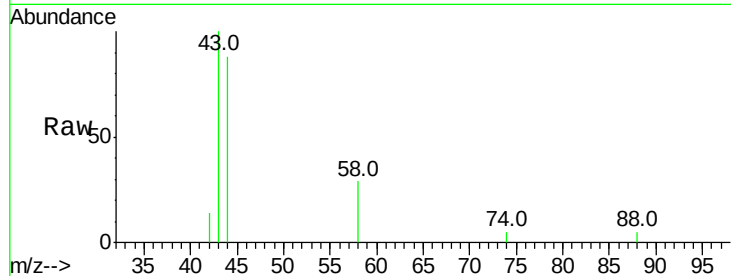
n-Nitrosodimethylamine
Concen: 0.25 ng
RT: 3.83 min Scan# 107
Delta R.T. 0.04 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
42	100		
74	193.9	86.0	129.0#
44	0.0	5.1	7.7#

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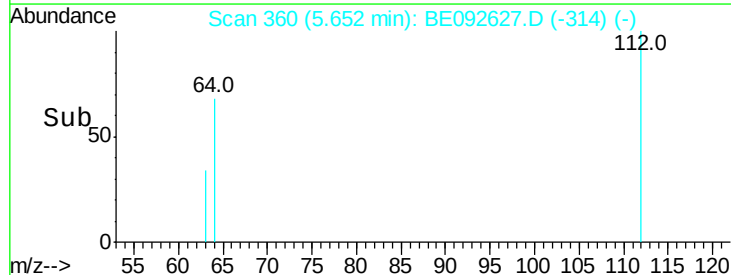
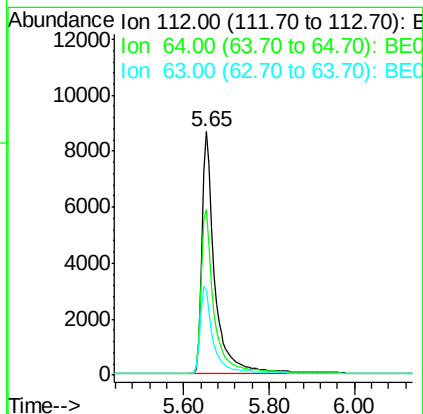
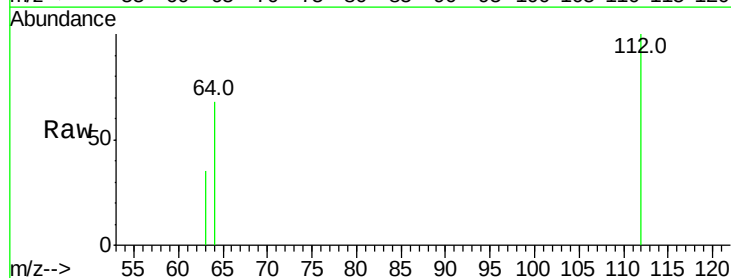
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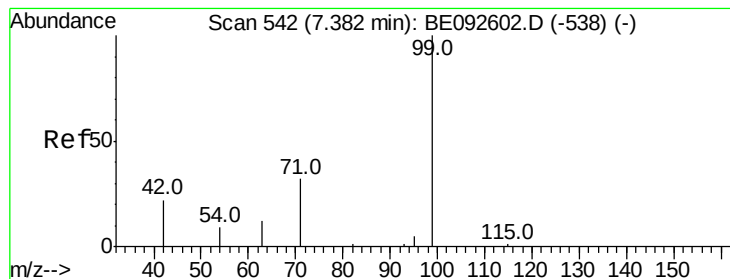


#4

2-Fluorophenol
Concen: 9.26 ng
RT: 5.65 min Scan# 360
Delta R.T. -0.03 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
112	100		
64	68.4	53.5	80.3
63	36.8	27.9	41.9





#5

Phenol-d6

Concen: 7.96 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.07 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

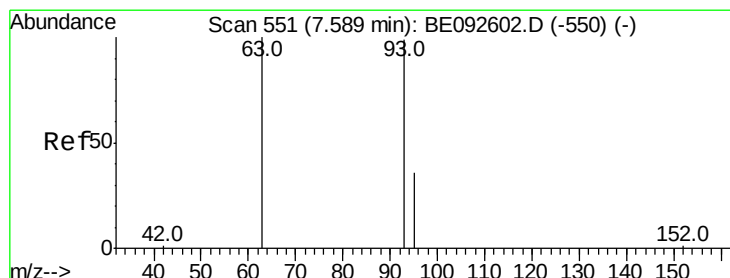
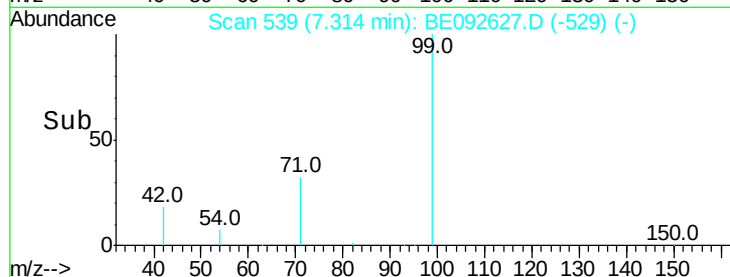
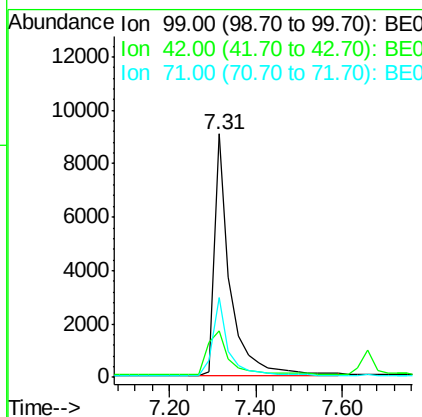
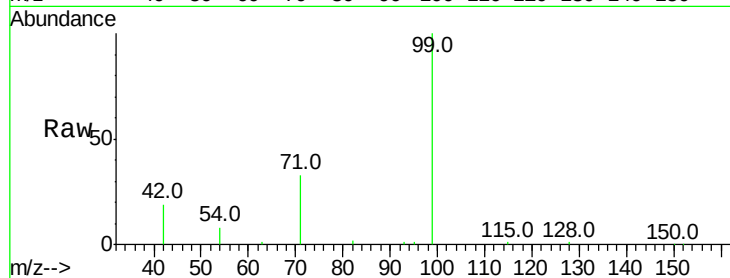
ClientSampleId :

LOQ-WATER-06-QT1-2017

Tot Ion:	99	Resp:	23621
Ion Ratio	Lower	Upper	
99	100		
42	24.5	16.0	24.0#
71	33.2	30.6	45.8

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#6

bis(2-Chloroethyl)ether

Concen: 0.24 ng

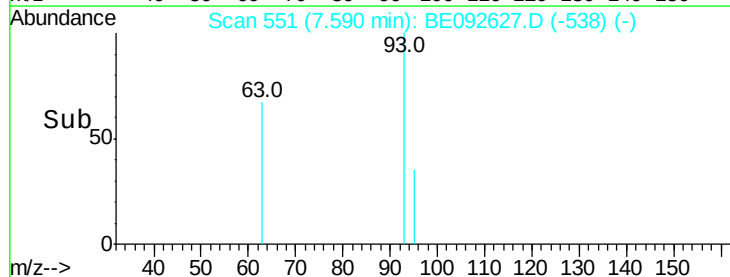
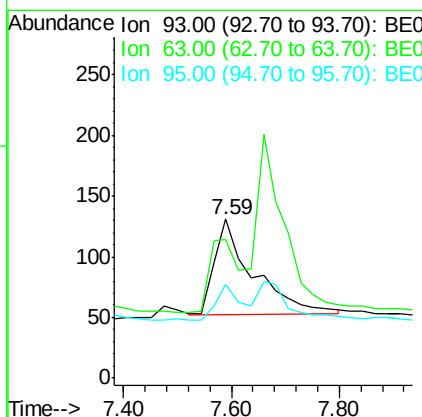
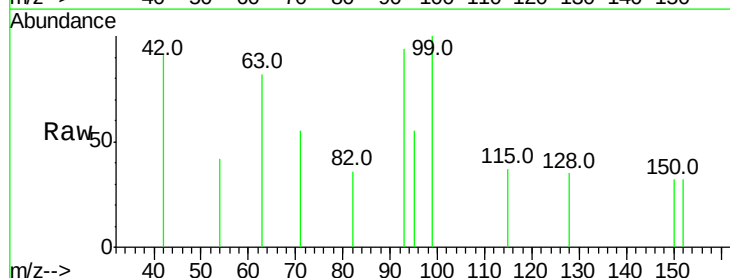
RT: 7.59 min Scan# 551

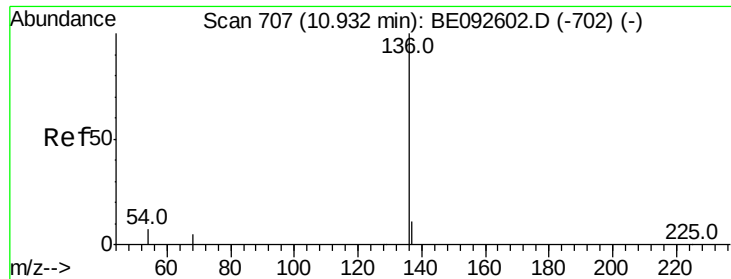
Delta R.T. 0.00 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion:	93	Resp:	394
Ion Ratio	Lower	Upper	
93	100		
63	0.0	71.6	107.4#
95	23.6	24.0	36.0#





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

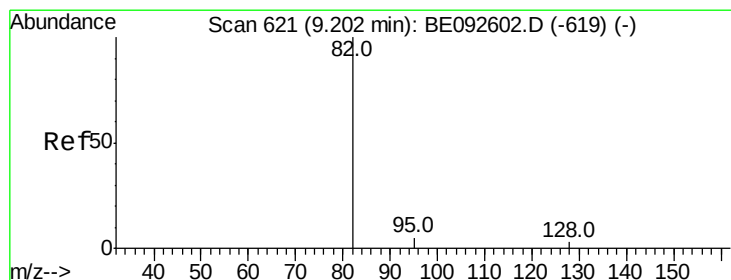
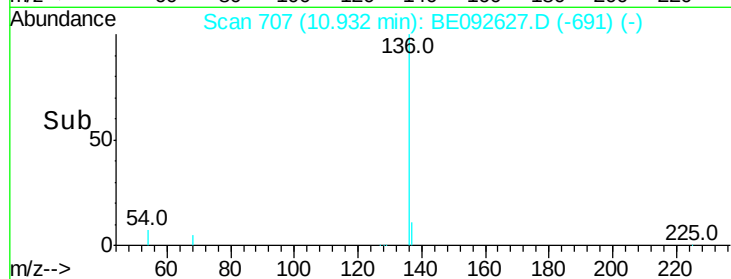
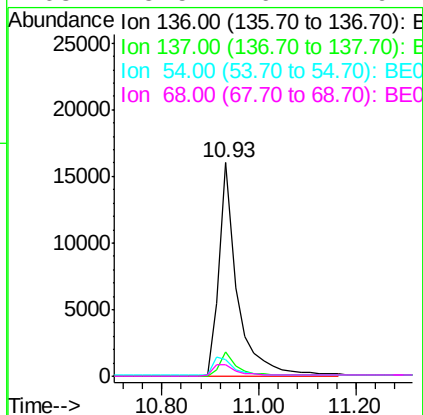
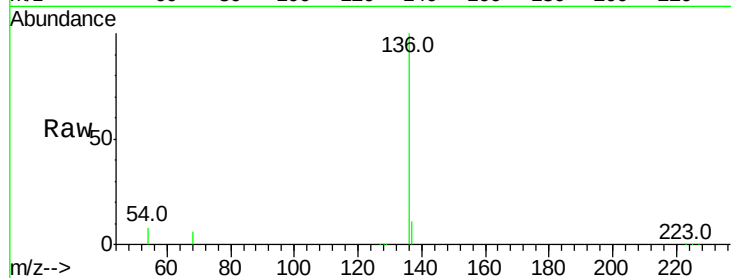
ClientSampleId :

LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Resp	Lower	Upper
136	100			
137	11.3	8.2	12.4	
54	7.8	9.6	14.4	
68	5.5	6.7	10.1	

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#8

Nitrobenzene-d5

Concen: 3.84 ng

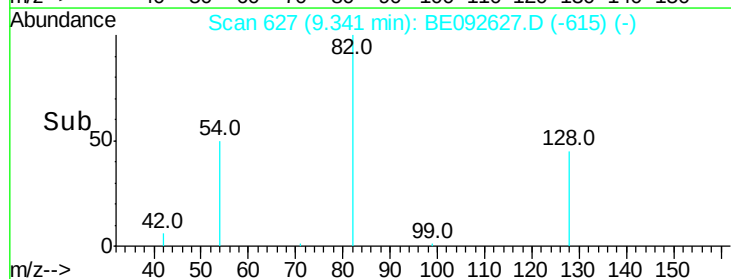
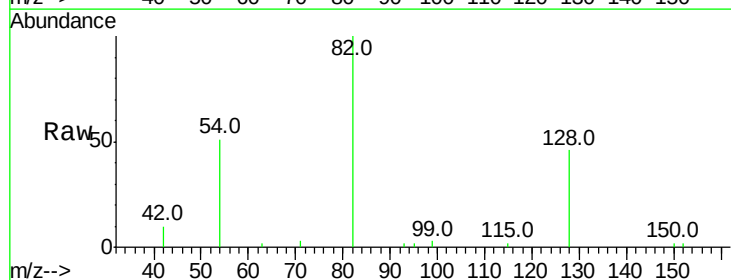
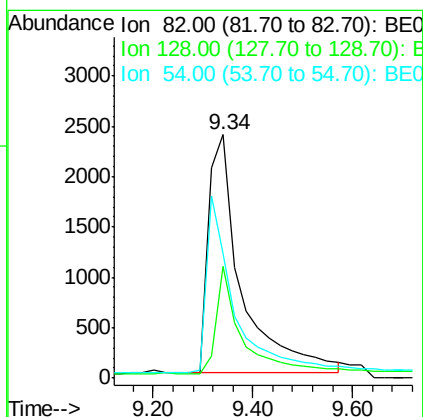
RT: 9.34 min Scan# 627

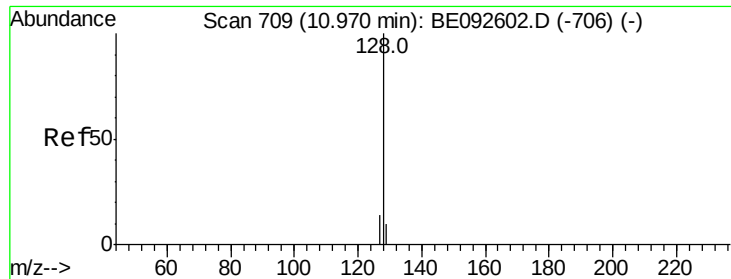
Delta R.T. -0.02 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Resp	Lower	Upper
82	100			
128	46.1	39.0	58.4	
54	51.1	44.8	67.2	





#9

Naphthalene

Concen: 0.17 ng

RT: 10.99 min Scan# 710

Delta R.T. 0.02 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

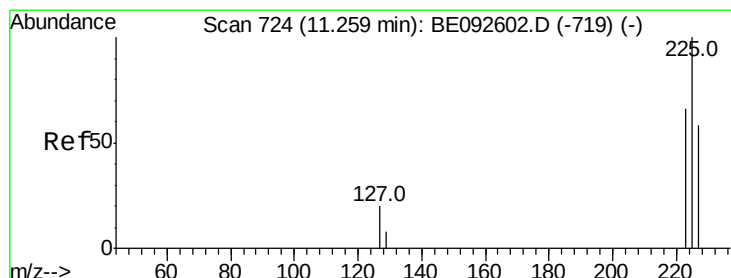
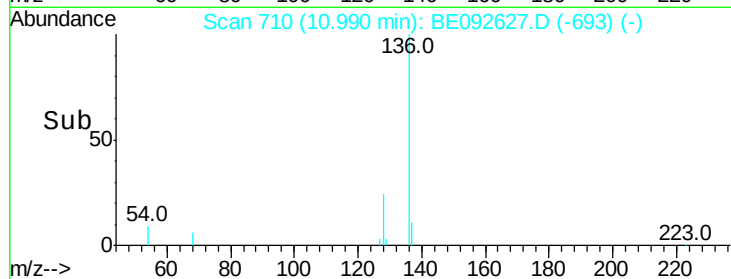
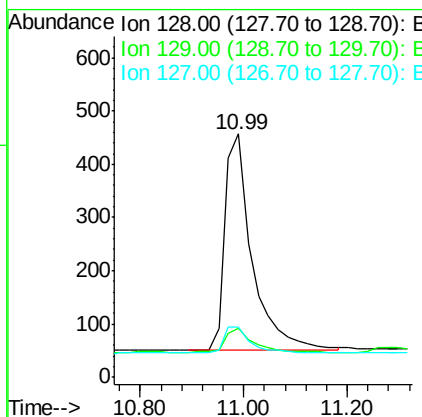
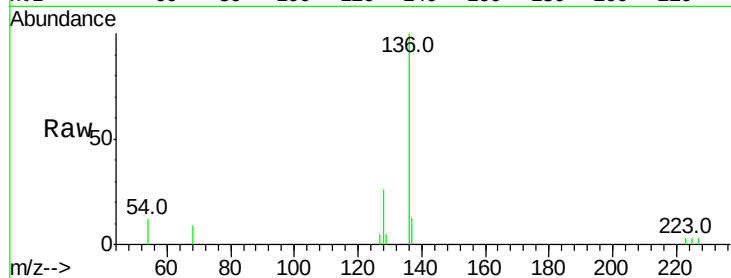
ClientSampleId :

LOQ-WATER-06-QT1-2017

Tot Ion:	128	Resp:	1494
Ion Ratio	Lower	Upper	
128	100		
129	20.4	11.2	16.8#
127	20.8	11.6	17.4#

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#10

Hexachlorobutadiene

Concen: 0.20 ng

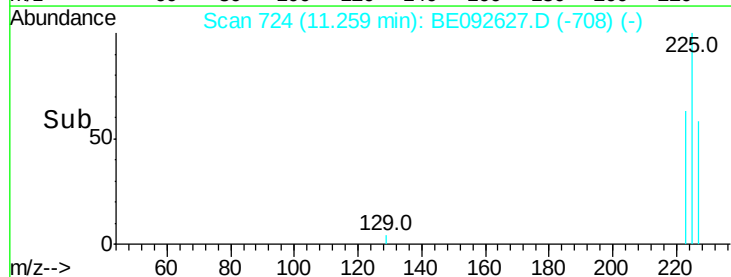
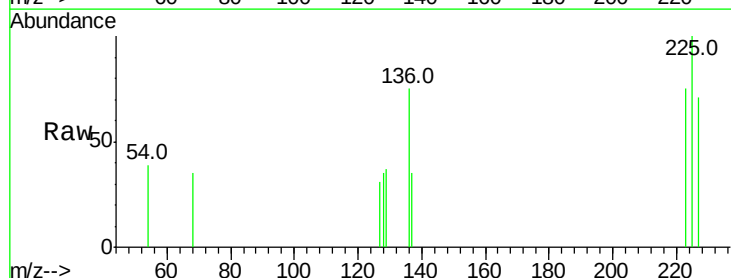
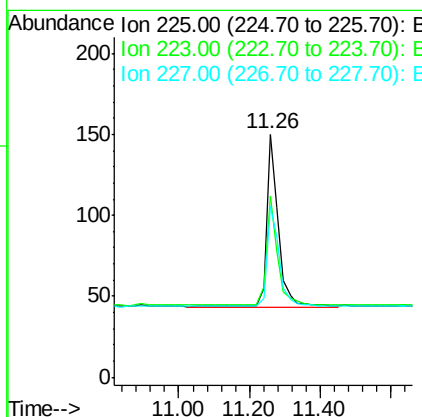
RT: 11.26 min Scan# 724

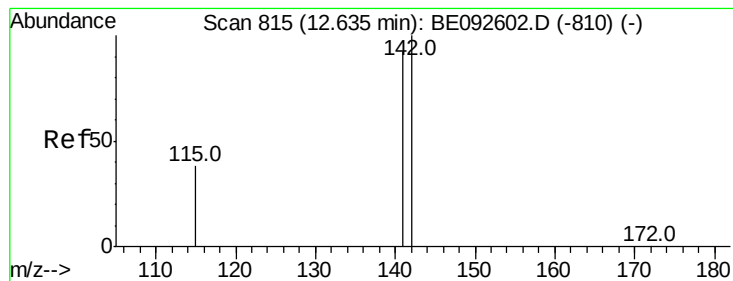
Delta R.T. 0.00 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion:	225	Resp:	264
Ion Ratio	Lower	Upper	
225	100		
223	54.9	50.6	76.0
227	56.4	51.4	77.0





#11

2-Methylnaphthalene

Concen: 0.15 ng

RT: 12.65 min Scan# 816

Delta R.T. 0.01 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

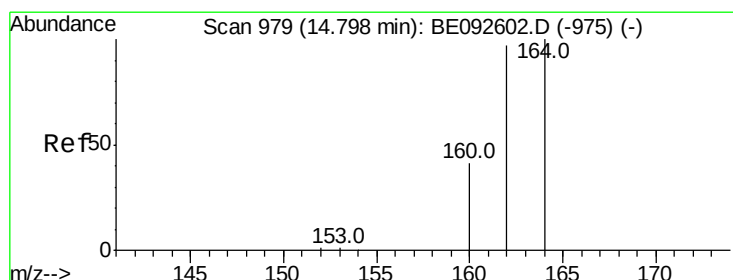
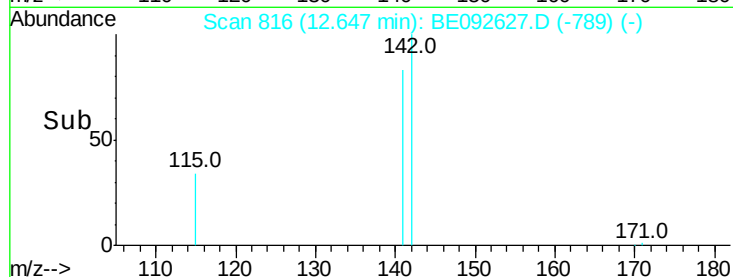
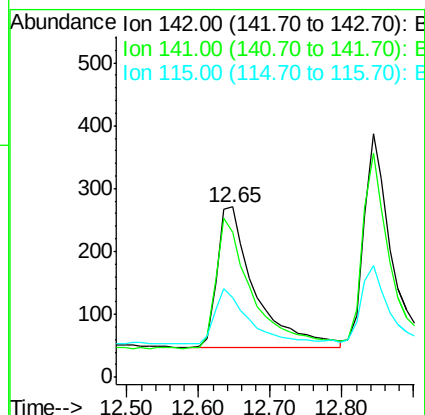
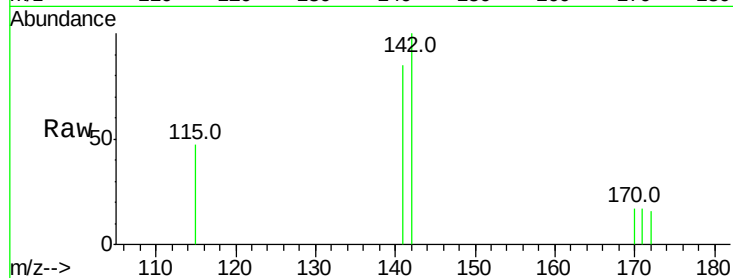
ClientSampleId :

LOQ-WATER-06-QT1-2017

Tot Ion:	142	Resp:	810
Ion	Ratio	Lower	Upper
142	100		
141	84.9	73.7	110.5
115	46.9	34.0	51.0

Manual Integrations
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#12

Acenaphthene-d10

Concen: 5.00 ng

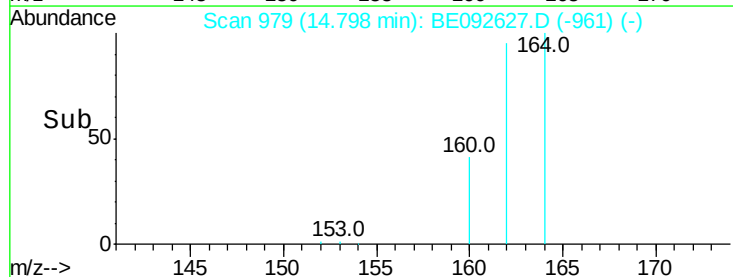
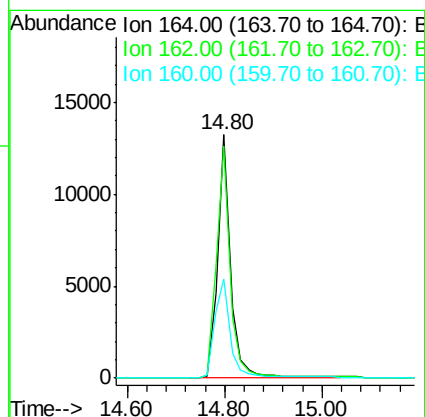
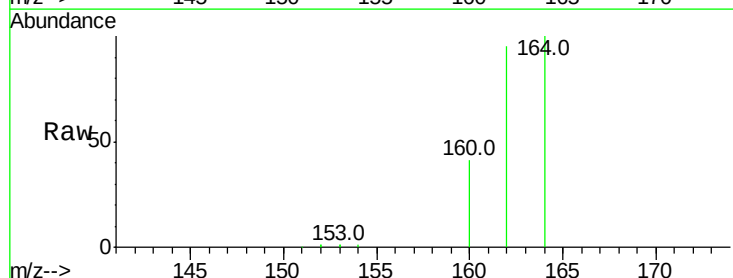
RT: 14.80 min Scan# 979

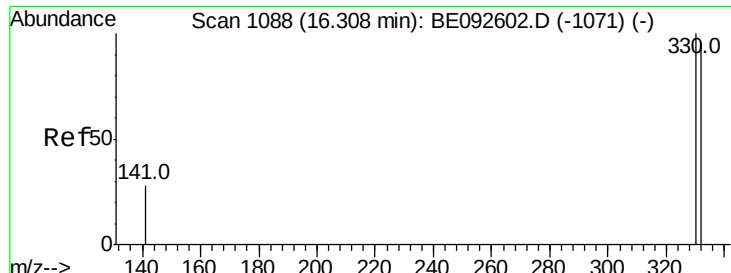
Delta R.T. 0.00 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion:	164	Resp:	24131
Ion	Ratio	Lower	Upper
164	100		
162	95.4	71.4	107.0
160	40.8	27.4	41.2





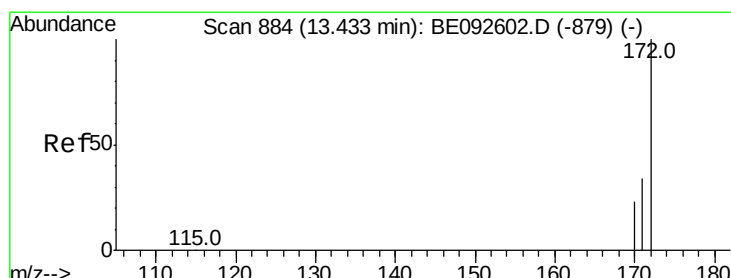
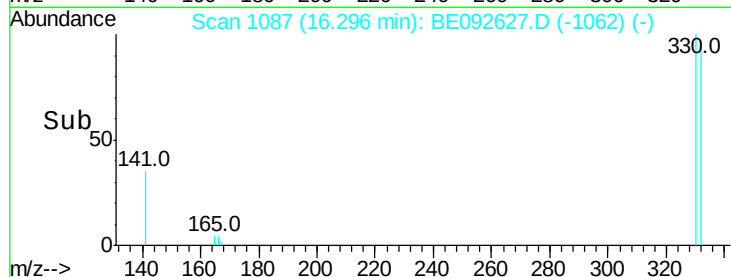
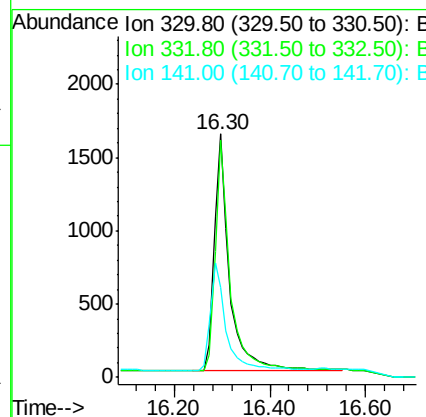
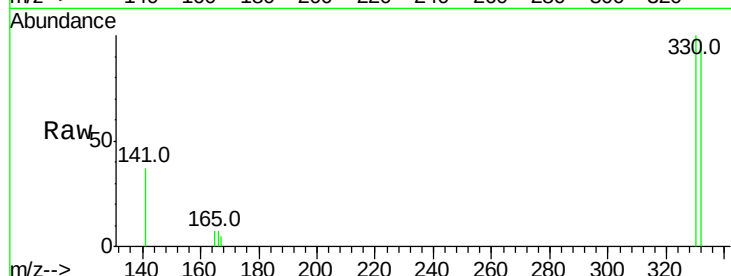
#13
 2,4,6-Tribromophenol
 Concen: 5.34 ng
 RT: 16.30 min Scan# 1087
 Delta R.T. -0.01 min
 Lab File: BE092627.D
 Acq: 27 Dec 2016 19:10

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	75.4	113.0
141	45.5	31.0	46.6

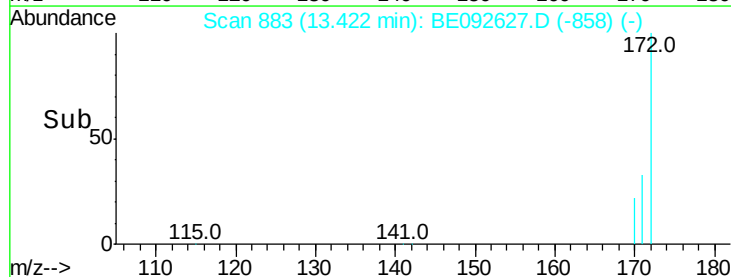
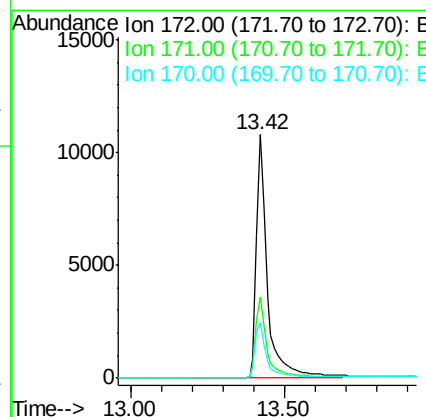
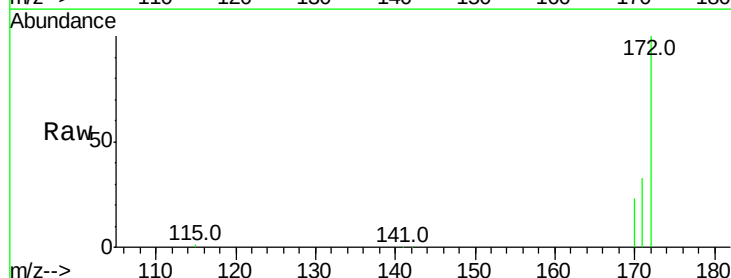
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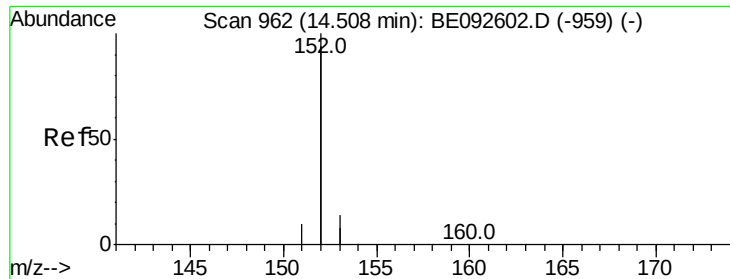
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#14
 2-Fluorobiphenyl
 Concen: 4.43 ng
 RT: 13.42 min Scan# 883
 Delta R.T. -0.01 min
 Lab File: BE092627.D
 Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.4	30.1	45.1
170	22.6	21.8	32.6





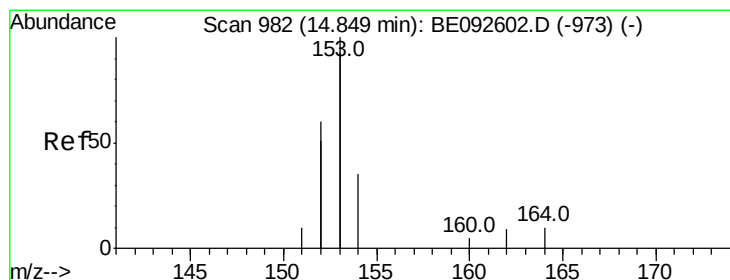
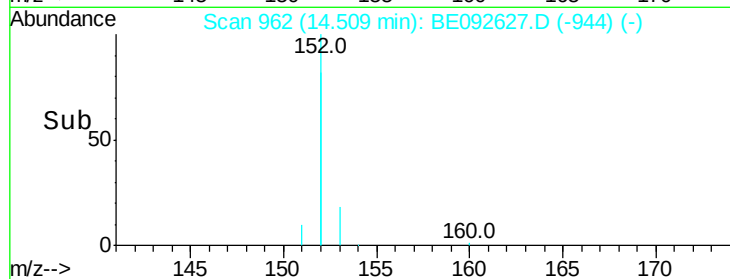
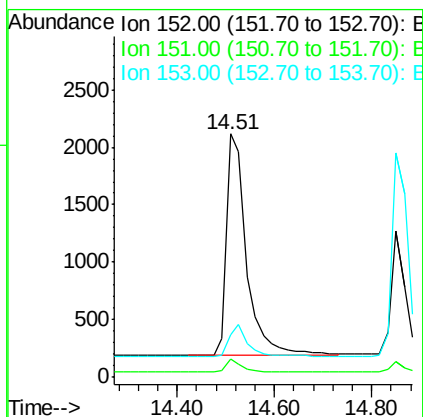
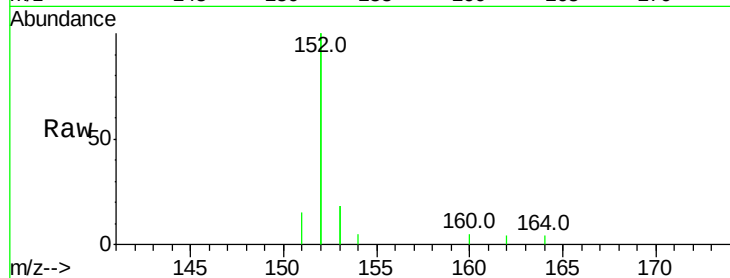
#15
Acenaphthylene
Concen: 0.17 ng
RT: 14.51 min Scan# 962
Delta R.T. 0.00 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
152	100		
151	5.1	3.9	5.9
153	13.1	10.4	15.6

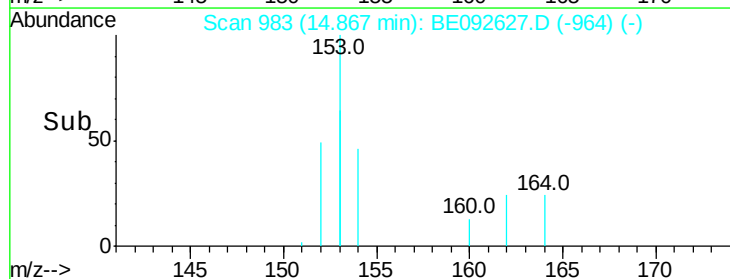
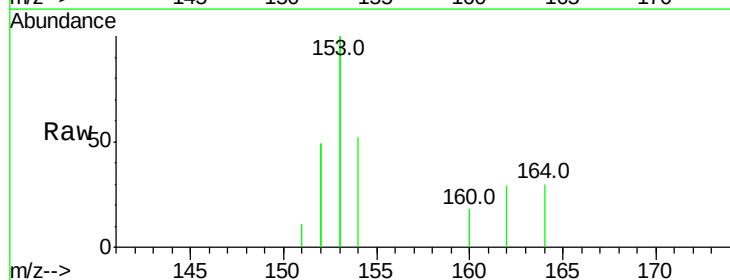
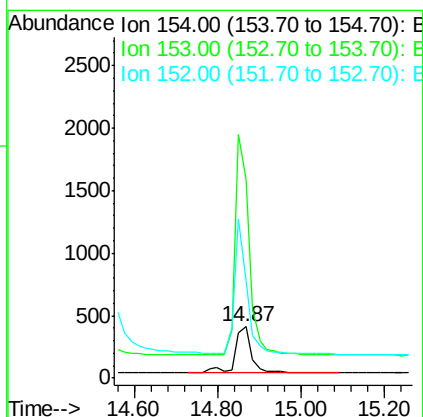
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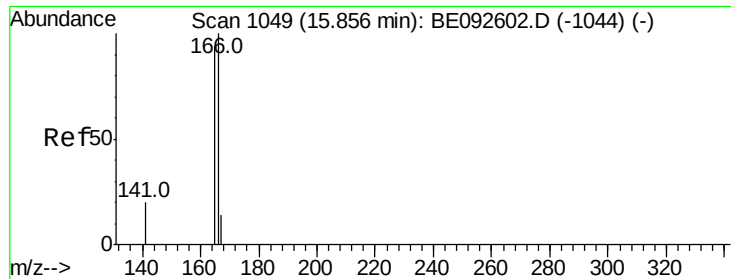
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#16
Acenaphthene
Concen: 0.18 ng
RT: 14.87 min Scan# 983
Delta R.T. 0.02 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
154	100		
153	413.9	350.8	526.2
152	227.0	171.1	256.7





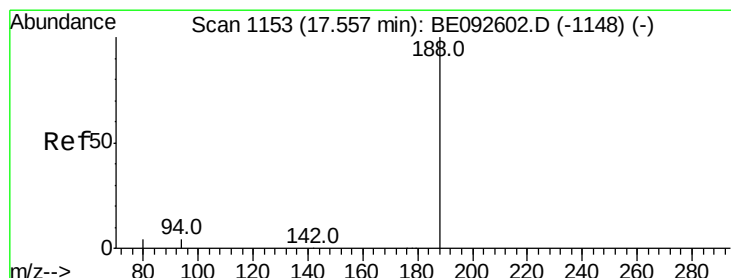
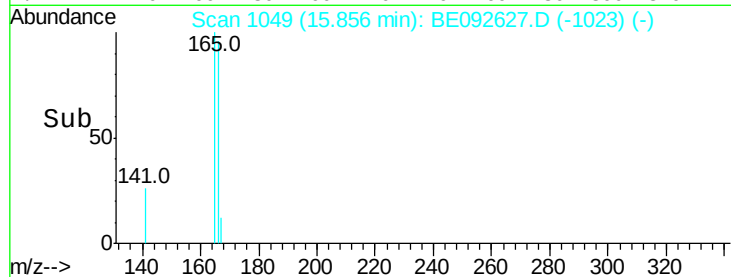
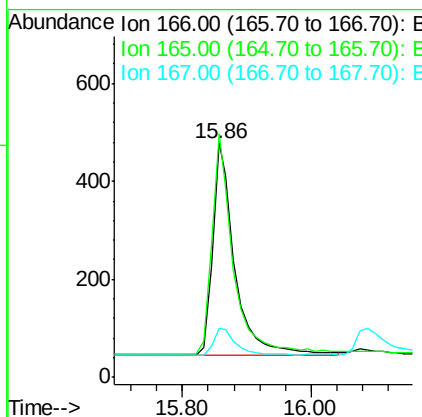
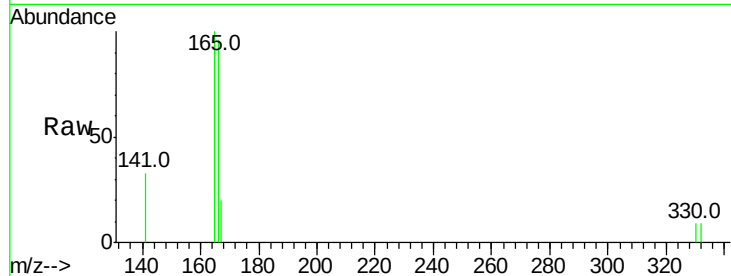
#17
Fluorene
Concen: 0.15 ng
RT: 15.86 min Scan# 1049
Delta R.T. 0.00 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
166	100		
165	101.8	78.2	117.4
167	13.5	11.0	16.4

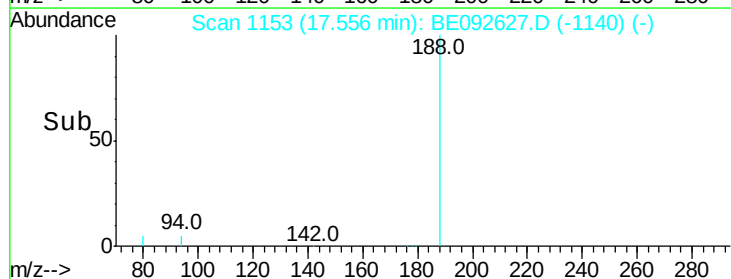
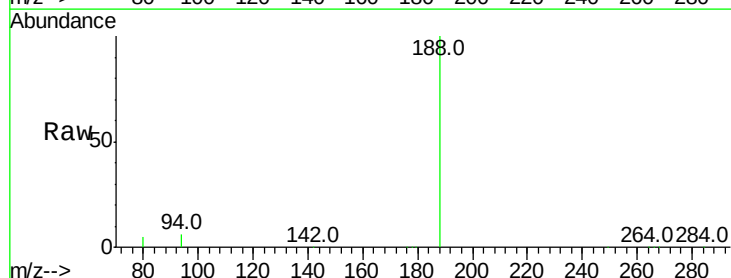
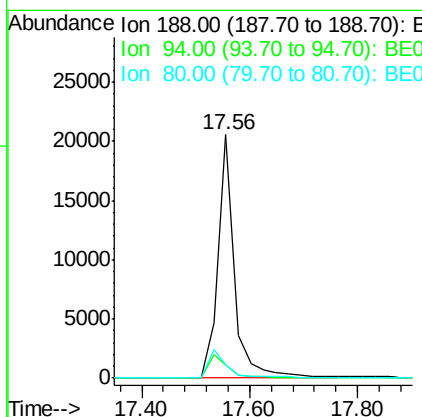
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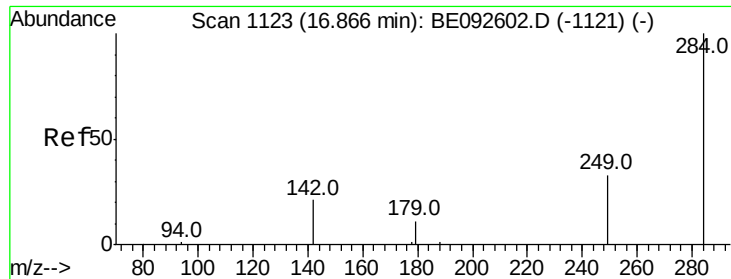
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#18
Phenanthrene-d10
Concen: 5.00 ng
RT: 17.56 min Scan# 1153
Delta R.T. -0.00 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
188	100		
94	5.6	3.2	4.8#
80	5.3	2.6	3.8#





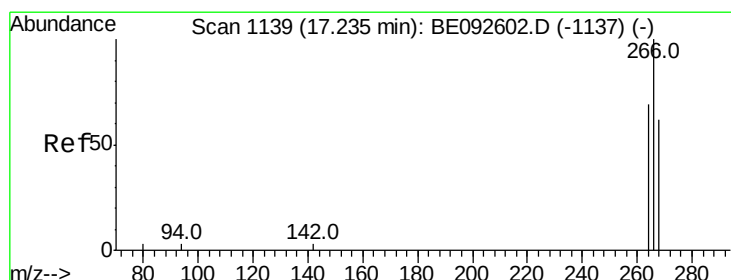
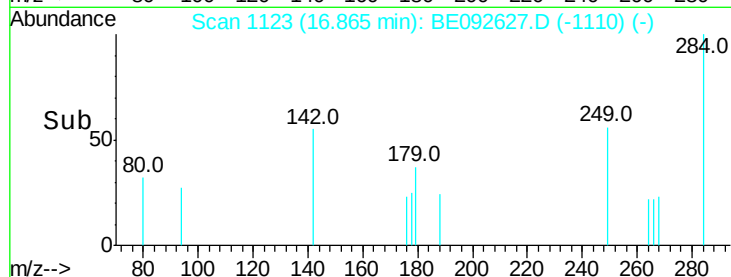
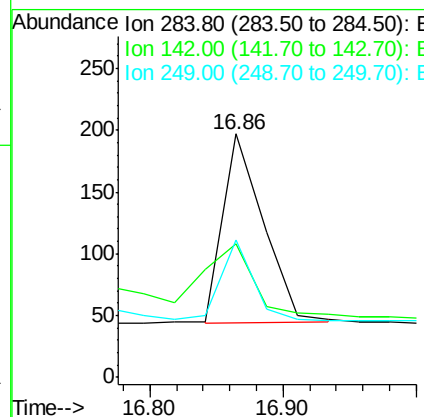
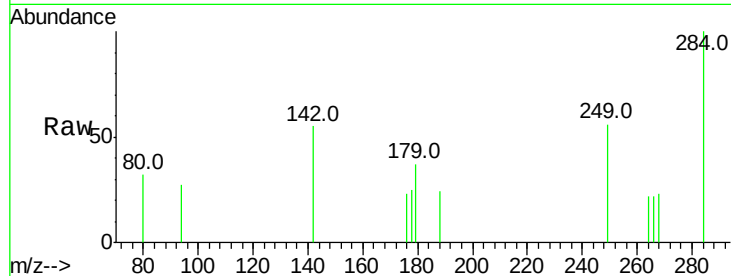
#19
Hexachlorobenzene
Concen: 0.17 ng m
RT: 16.86 min Scan# 1123
Delta R.T. -0.00 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
284	100		
142	81.2	29.1	43.7#
249	98.8	27.9	41.9#

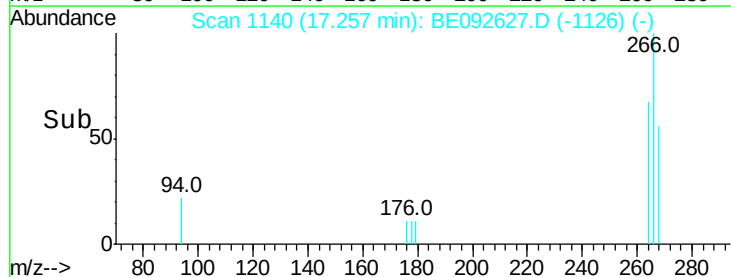
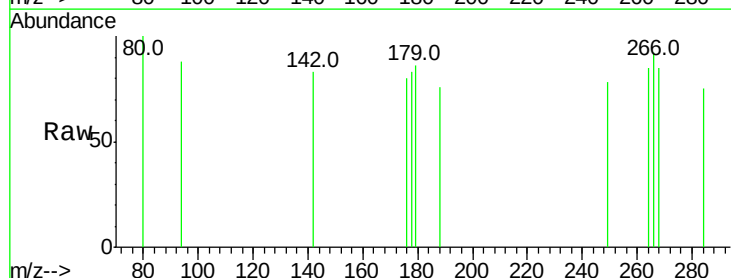
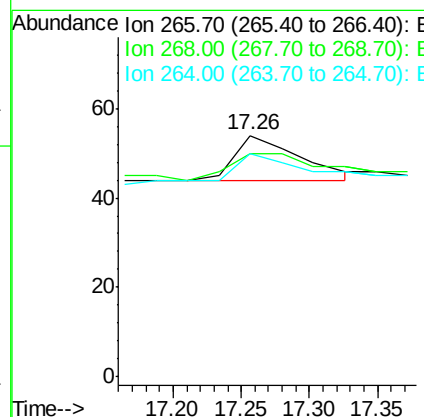
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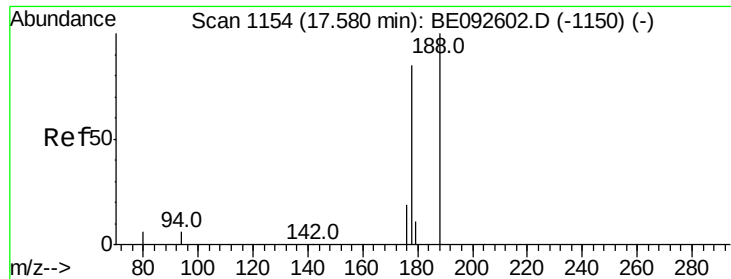
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#20
Pentachlorophenol
Concen: 0.12 ng m
RT: 17.26 min Scan# 1140
Delta R.T. 0.02 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
266	100		
268	92.6	62.5	93.7
264	92.6	57.2	85.8#





#21

Phenanthrene

Concen: 0.16 ng

RT: 17.60 min Scan# 1155

Delta R.T. 0.02 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

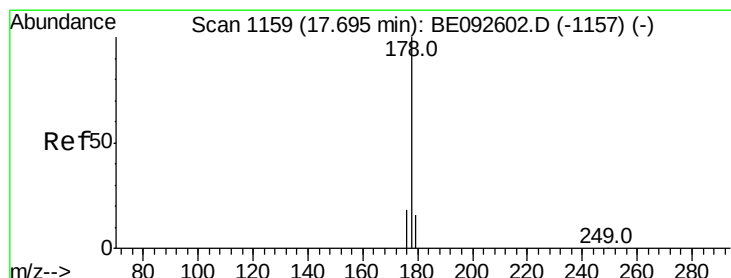
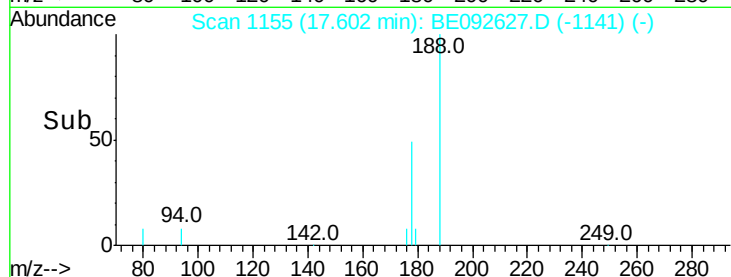
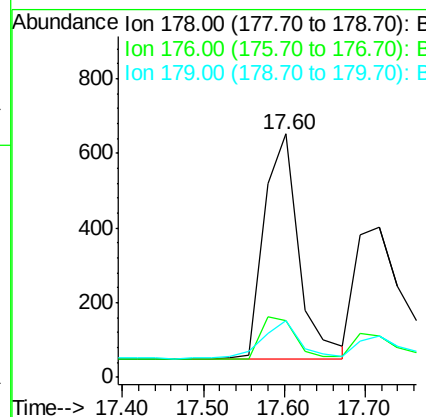
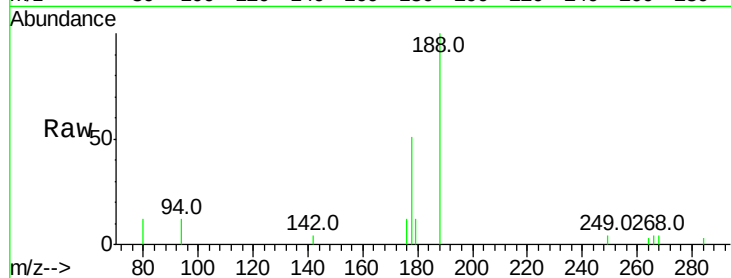
ClientSampleId :

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Tot Ion	Ratio	Lower	Upper
178	100		
176	0.0	15.8	23.8#
179	18.3	16.0	24.0

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#22

Anthracene

Concen: 0.15 ng

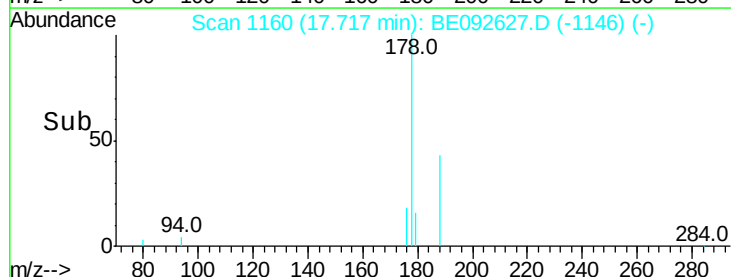
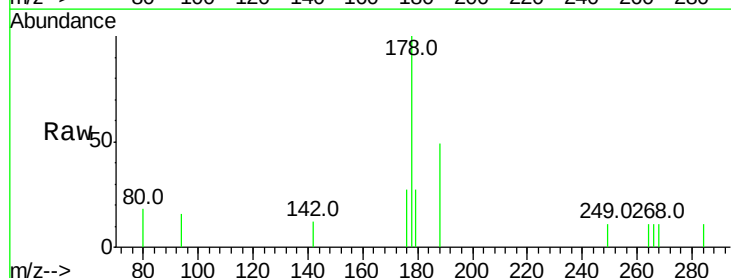
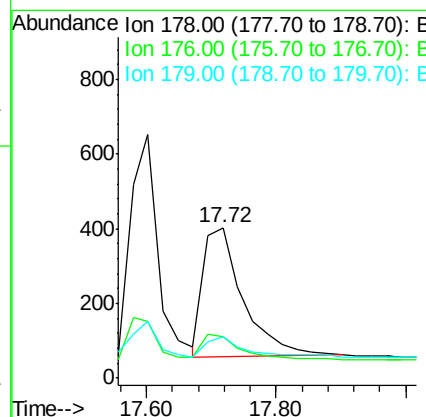
RT: 17.72 min Scan# 1160

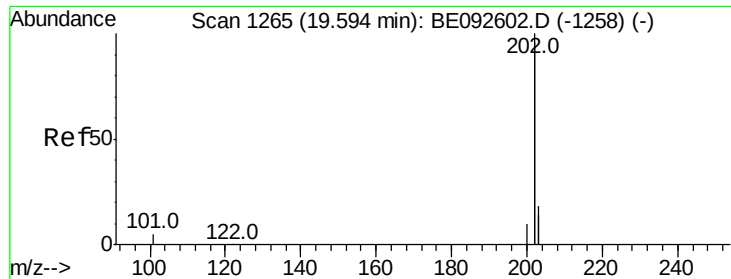
Delta R.T. 0.02 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
178	100		
176	0.0	15.0	22.4#
179	17.4	12.2	18.2





#23

Fluoranthene

Concen: 0.14 ng

RT: 19.61 min Scan# 1266

Delta R.T. 0.02 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

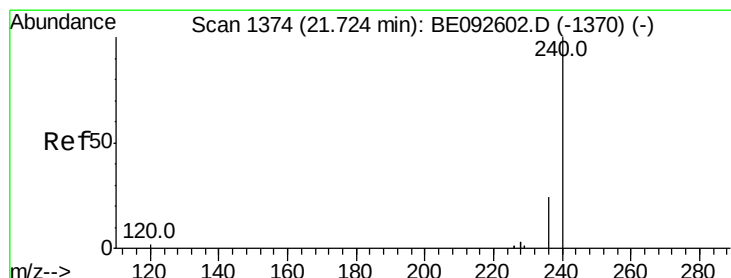
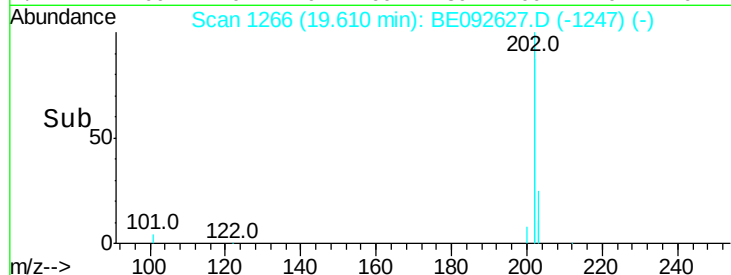
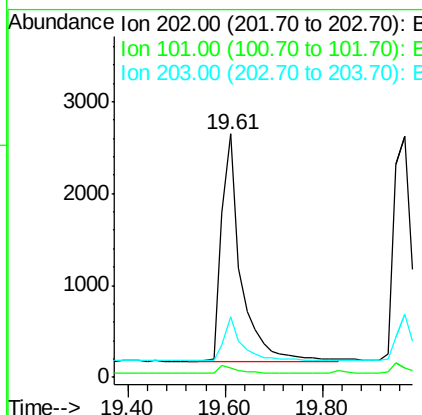
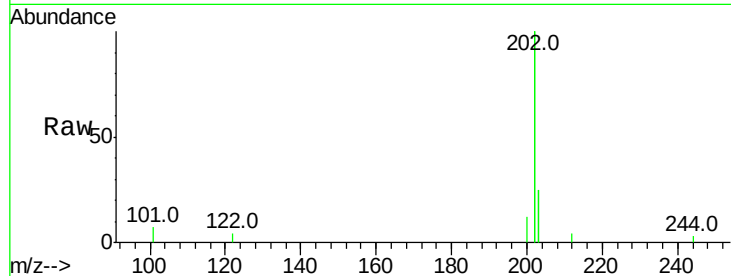
ClientSampleId :

LOQ-WATER-06-QT1-2017

Tot Ion:	202	Resp:	6772
Ion Ratio	Lower	Upper	
202	100		
101	3.1	2.2	3.4
203	17.6	13.7	20.5

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#24

Chrysene-d12

Concen: 5.00 ng

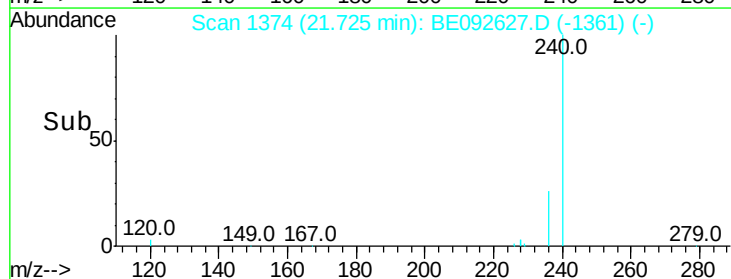
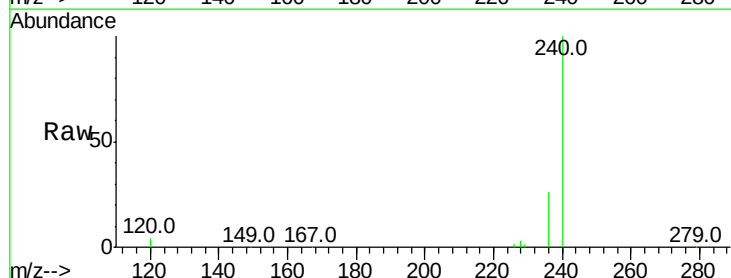
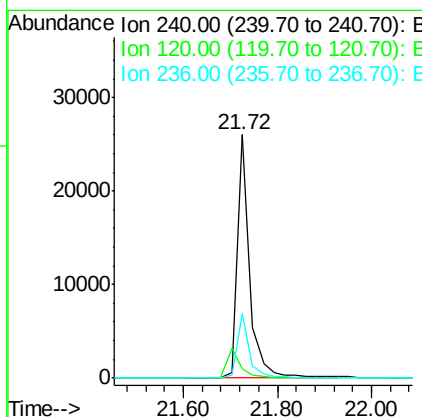
RT: 21.72 min Scan# 1374

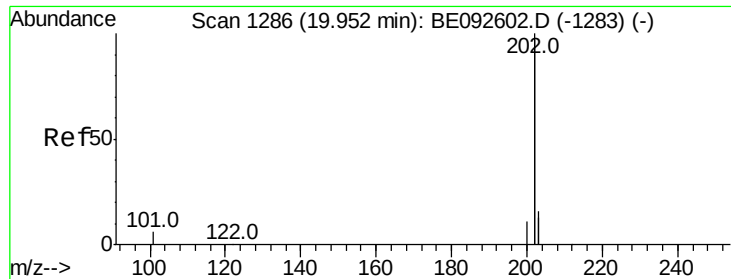
Delta R.T. 0.00 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion:	240	Resp:	47588
Ion Ratio	Lower	Upper	
240	100		
120	3.7	2.6	4.0
236	26.5	24.6	37.0





#25

Pvrene

Concen: 0.16 ng

RT: 19.97 min Scan# 1287

Delta R.T. 0.02 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

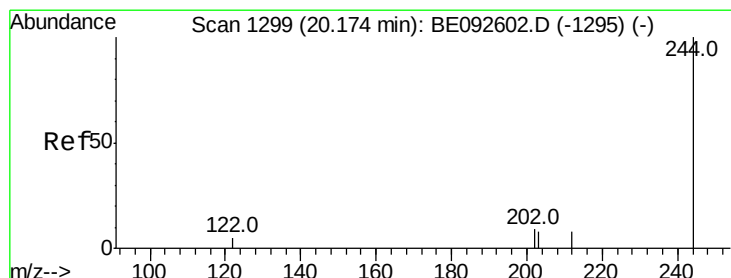
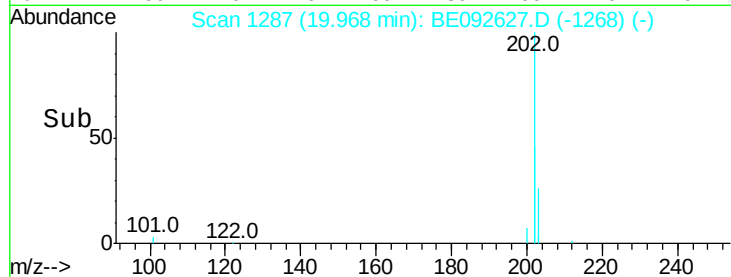
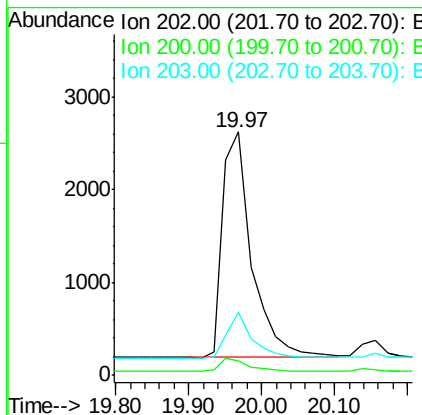
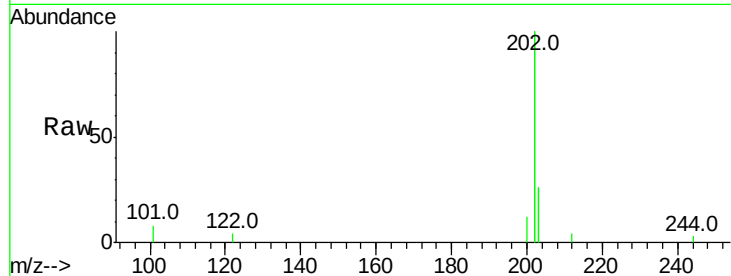
ClientSampleId :

LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
202	100		
200	5.5	4.2	6.4
203	17.9	13.9	20.9

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#26

Terphenyl-d14

Concen: 4.63 ng

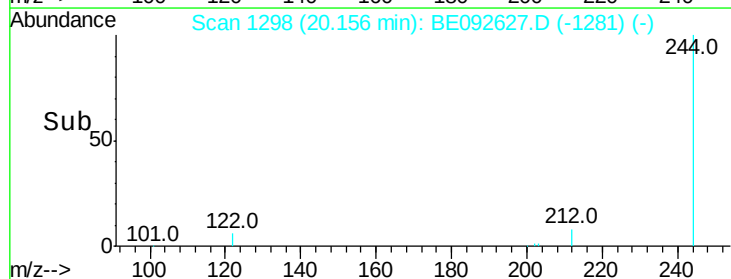
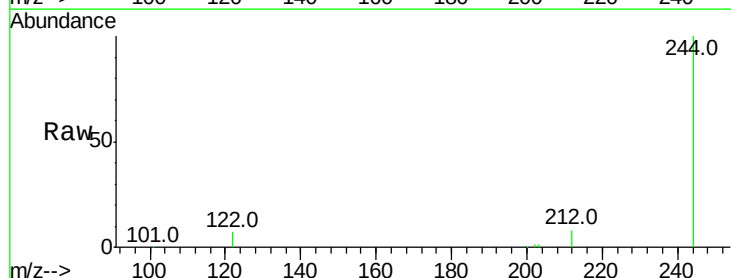
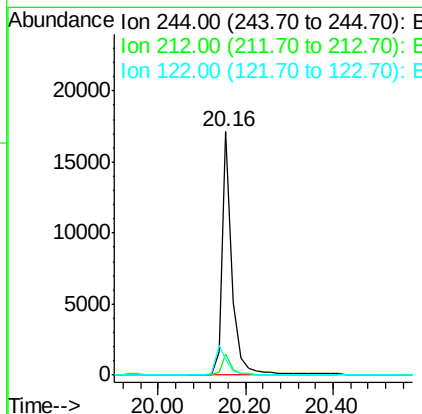
RT: 20.16 min Scan# 1298

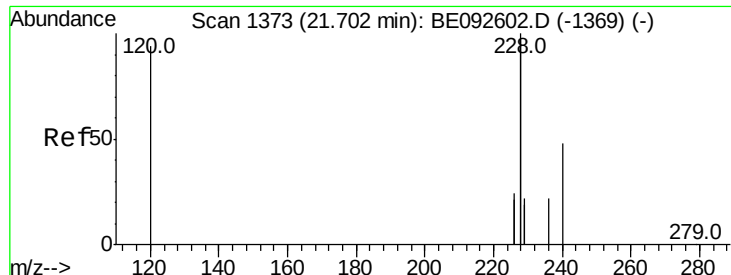
Delta R.T. -0.02 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.5	6.7	10.1
122	6.6	3.6	5.4





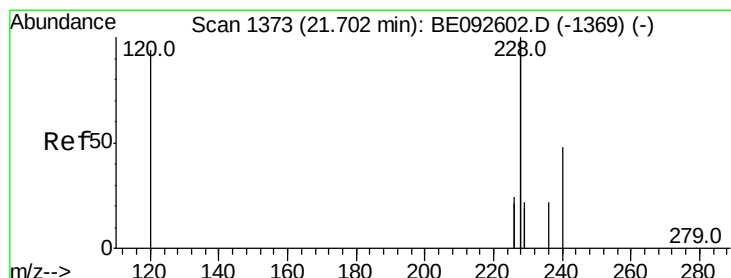
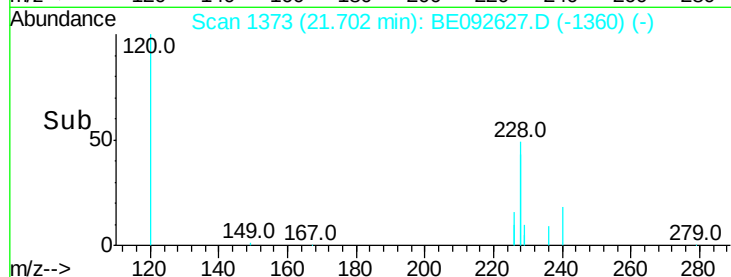
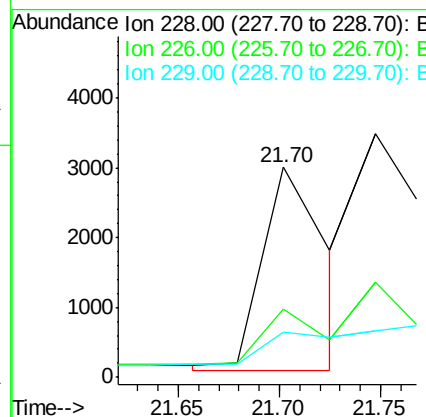
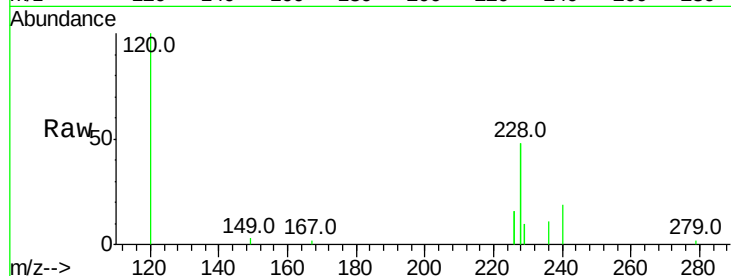
#27
Benzo(a)anthracene
Concen: 0.15 ng m
RT: 21.70 min Scan# 1373
Delta R.T. 0.00 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
228	100		
226	32.8	23.6	35.4
229	21.4	13.3	19.9

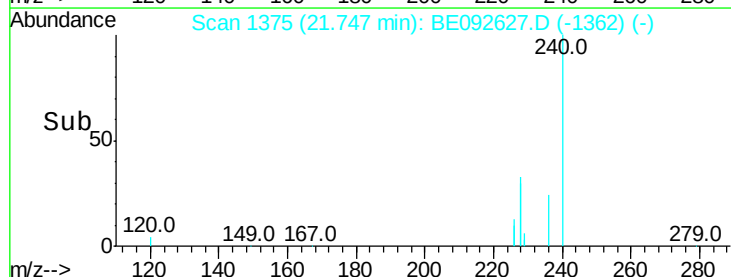
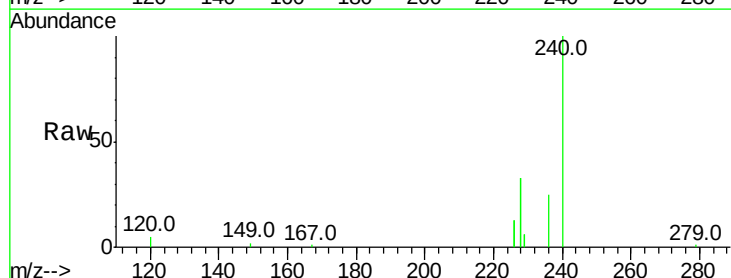
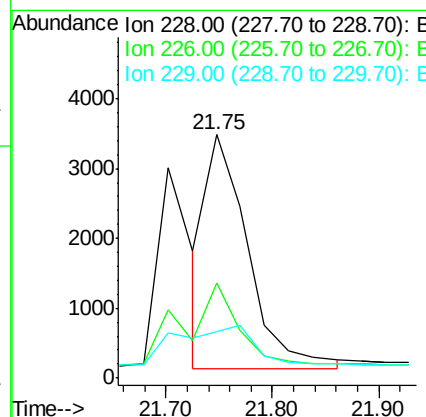
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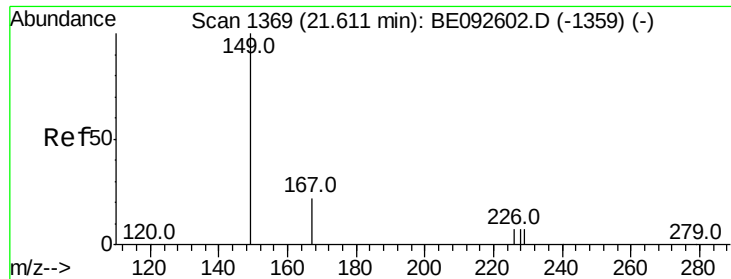
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#28
Chrysene
Concen: 0.19 ng m
RT: 21.75 min Scan# 1375
Delta R.T. 0.00 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
228	100		
226	39.3	36.3	54.5
229	19.3	10.6	16.0





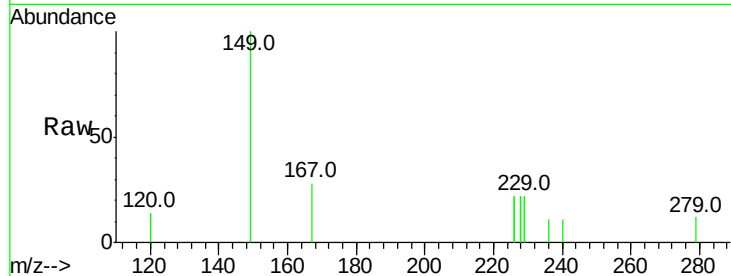
#29
 Bis(2-ethylhexyl)phthalate
 Concen: 0.21 ng
 RT: 21.61 min Scan# 1369
 Delta R.T. 0.00 min
 Lab File: BE092627.D
 Acq: 27 Dec 2016 19:10

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER-06-QT1-2017

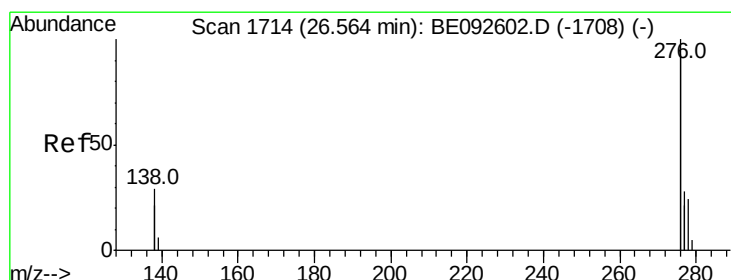
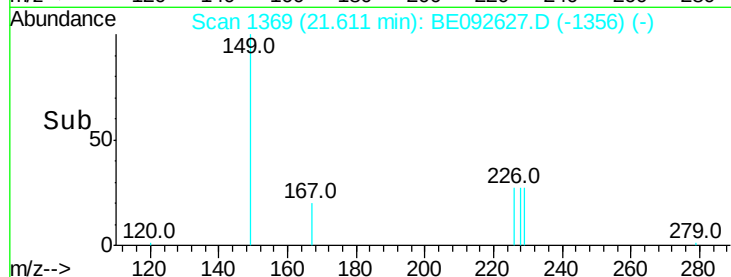
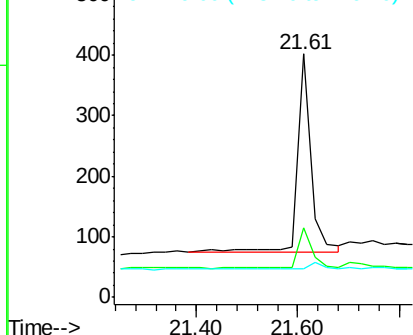
Tot Ion	Ratio	Lower	Upper
149	100		
167	18.4	16.0	24.0
279	0.0	16.0	24.0

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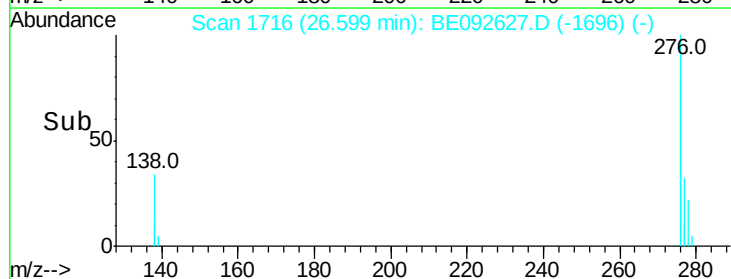
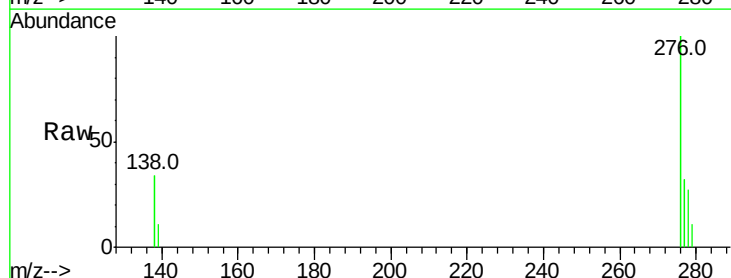
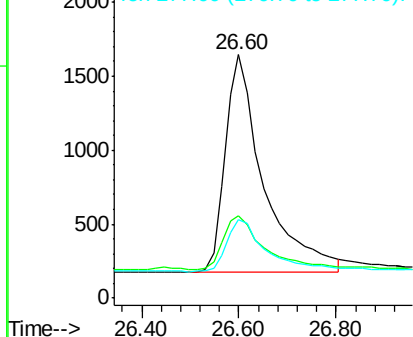
Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

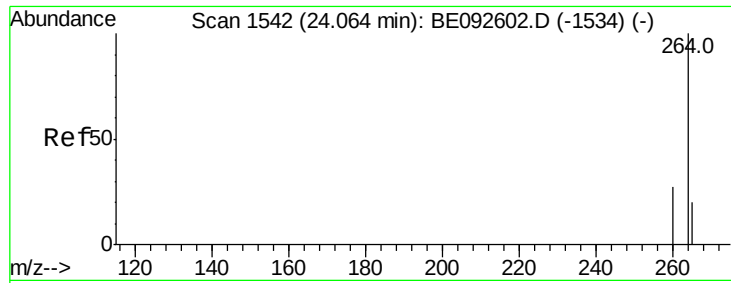


#30
 Indeno(1,2,3-cd)pyrene
 Concen: 0.18 ng
 RT: 26.60 min Scan# 1716
 Delta R.T. 0.03 min
 Lab File: BE092627.D
 Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
276	100		
138	26.4	20.3	30.5
277	24.9	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





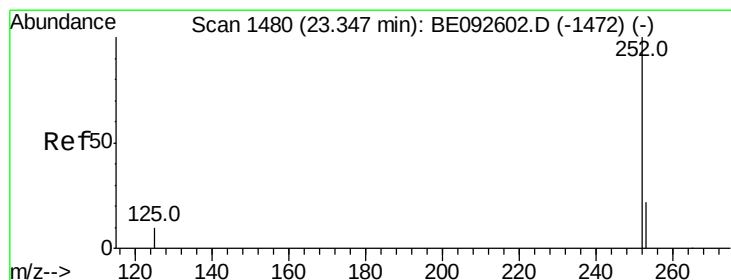
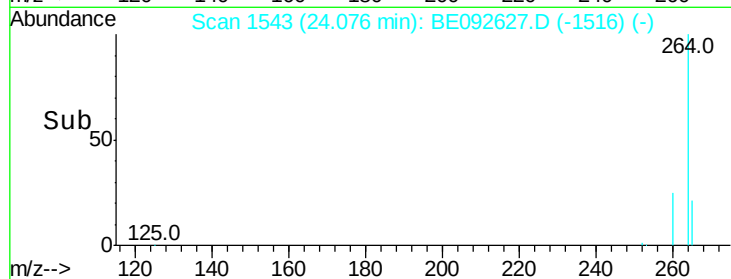
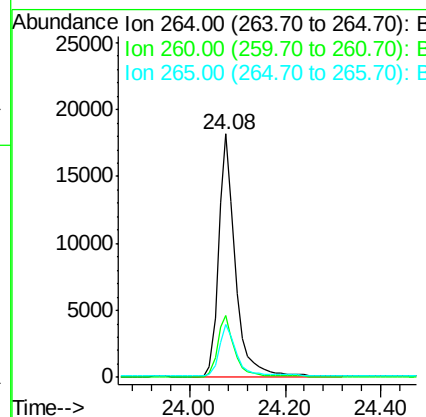
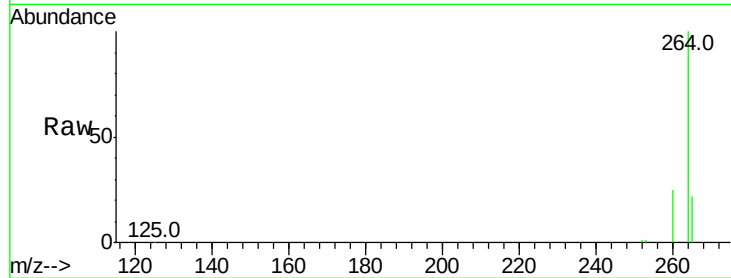
#31
 Pervlene-d12
 Concen: 5.00 ng
 RT: 24.08 min Scan# 1543
 Delta R.T. 0.01 min
 Lab File: BE092627.D
 Acq: 27 Dec 2016 19:10

Instrument :
 BNA_E
 ClientSampleId :
 LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
264	100		
260	25.2	20.1	30.1
265	21.9	17.9	26.9

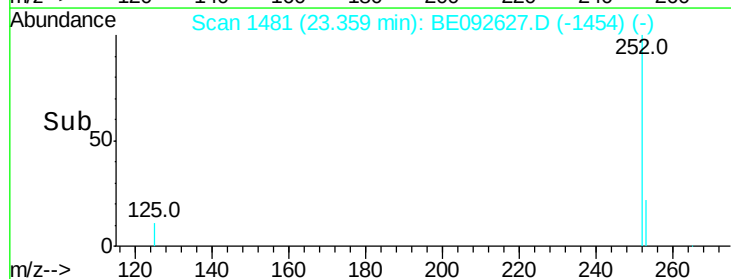
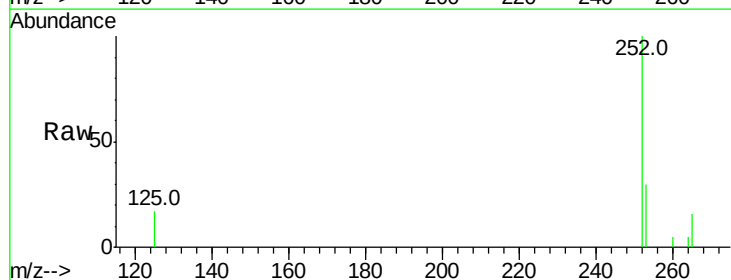
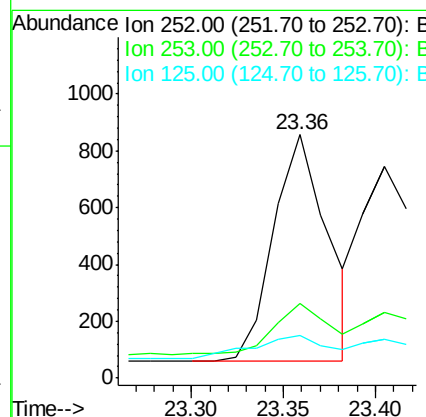
Manual Integrations
 APPROVED

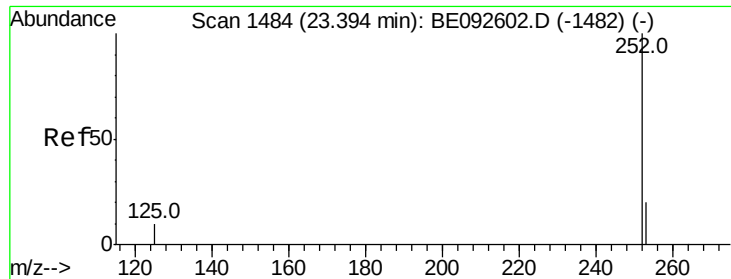
sohil
 12/28/2016 9:49:16 AM



#32
 Benzo(b)fluoranthene
 Concen: 0.16 ng
 RT: 23.36 min Scan# 1481
 Delta R.T. 0.01 min
 Lab File: BE092627.D
 Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
252	100		
253	30.5	18.7	28.1#
125	17.4	10.5	15.7#





#33

Benzo(k)fluoranthene

Concen: 0.17 ng

RT: 23.40 min Scan# 1485

Delta R.T. 0.01 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Instrument :

BNA_E

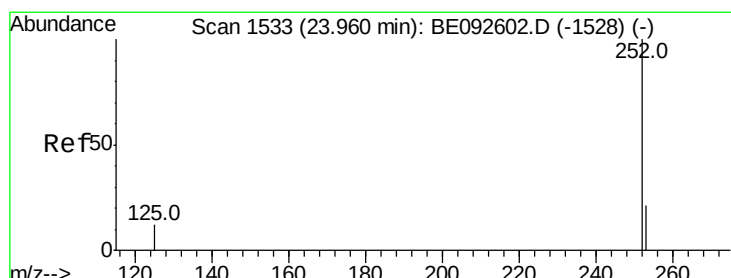
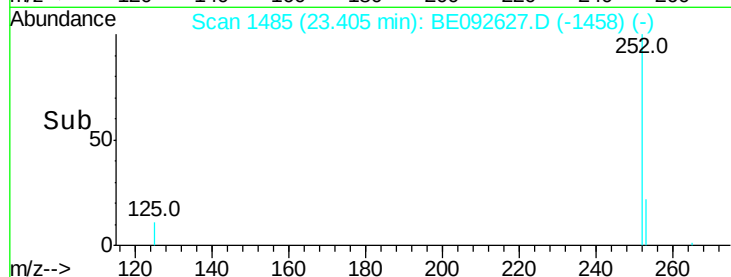
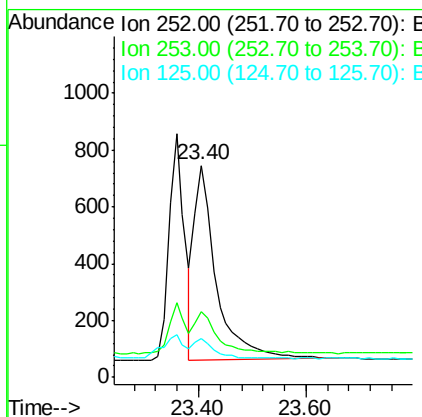
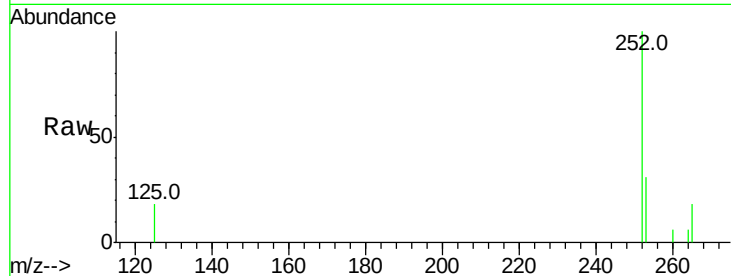
ClientSampleId :

LOQ-WATER-06-QT1-2017

Tot Ion:	252	Resp:	1952
Ion Ratio	Lower	Upper	
252	100		
253	31.1	20.3	30.5#
125	18.5	9.6	14.4#

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#34

Benzo(a)pyrene

Concen: 0.15 ng

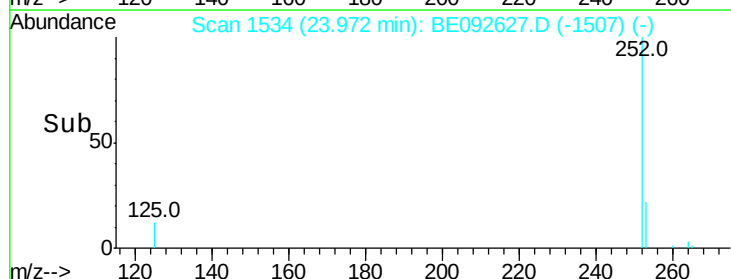
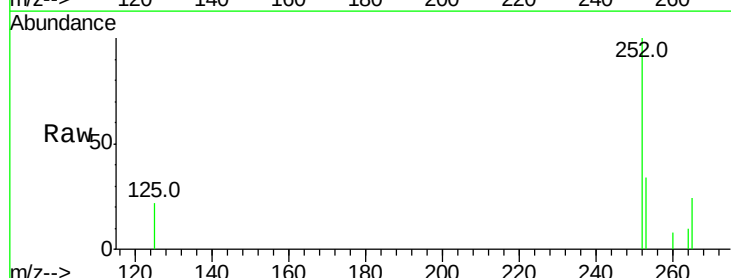
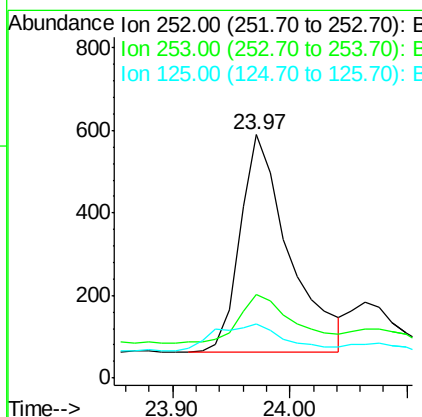
RT: 23.97 min Scan# 1534

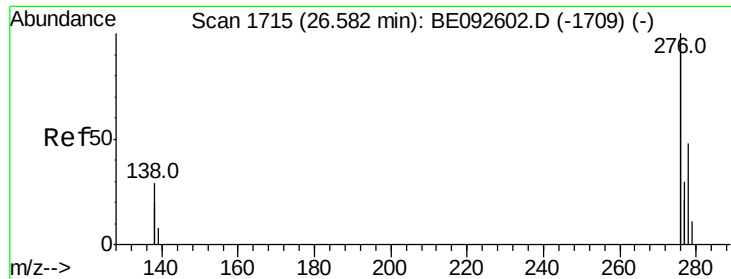
Delta R.T. 0.01 min

Lab File: BE092627.D

Acq: 27 Dec 2016 19:10

Tgt Ion:	252	Resp:	1530
Ion Ratio	Lower	Upper	
252	100		
253	34.1	19.0	28.6#
125	22.2	11.8	17.8#





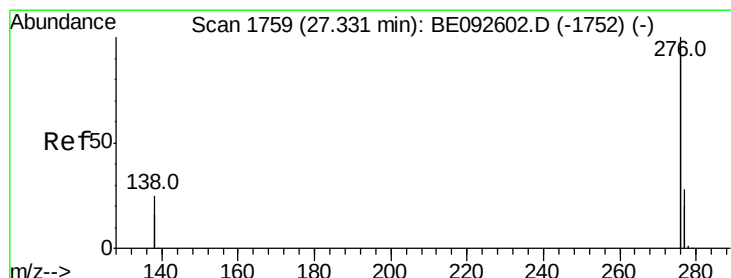
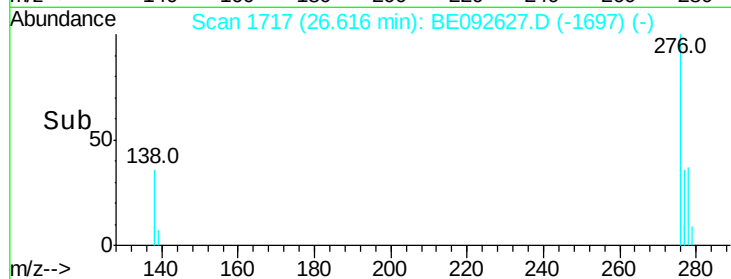
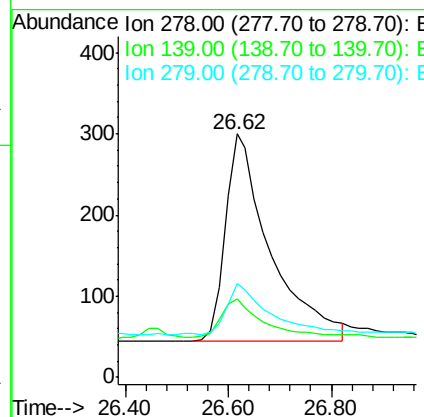
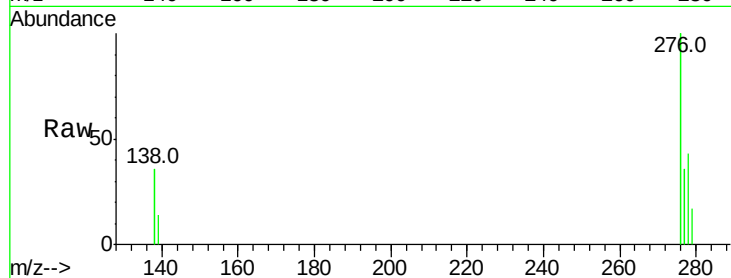
#35
Dibenzo(a,h)anthracene
Concen: 0.17 ng
RT: 26.62 min Scan# 1717
Delta R.T. 0.03 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Instrument :
BNA_E
ClientSampleId :
LOQ-WATER-06-QT1-2017

Tot Ion	Ratio	Lower	Upper
278	100		
139	32.0	13.8	20.8#
279	38.3	21.4	32.2#

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#36
Benzo(g,h,i)perylene
Concen: 0.19 ng
RT: 27.35 min Scan# 1760
Delta R.T. 0.02 min
Lab File: BE092627.D
Acq: 27 Dec 2016 19:10

Tgt Ion	Ratio	Lower	Upper
276	100		
277	32.3	19.8	29.8#
138	32.6	19.8	29.6#

