

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072518\
 Data File : VX003666.D
 Acq On : 25 Jul 2018 19:04
 Operator : JC/SP
 Sample : J4073-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE123D2-071818

Quant Time: Jul 27 04:36:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072418W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 27 02:16:51 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	90648	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	138754	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	129697	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	83153	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	70558	52.55	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.10%		
35) Dibromofluoromethane	5.51	113	59993	52.89	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.78%		
50) Toluene-d8	8.72	98	231863	53.56	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.12%		
62) 4-Bromofluorobenzene	11.14	95	78170	49.51	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.02%		

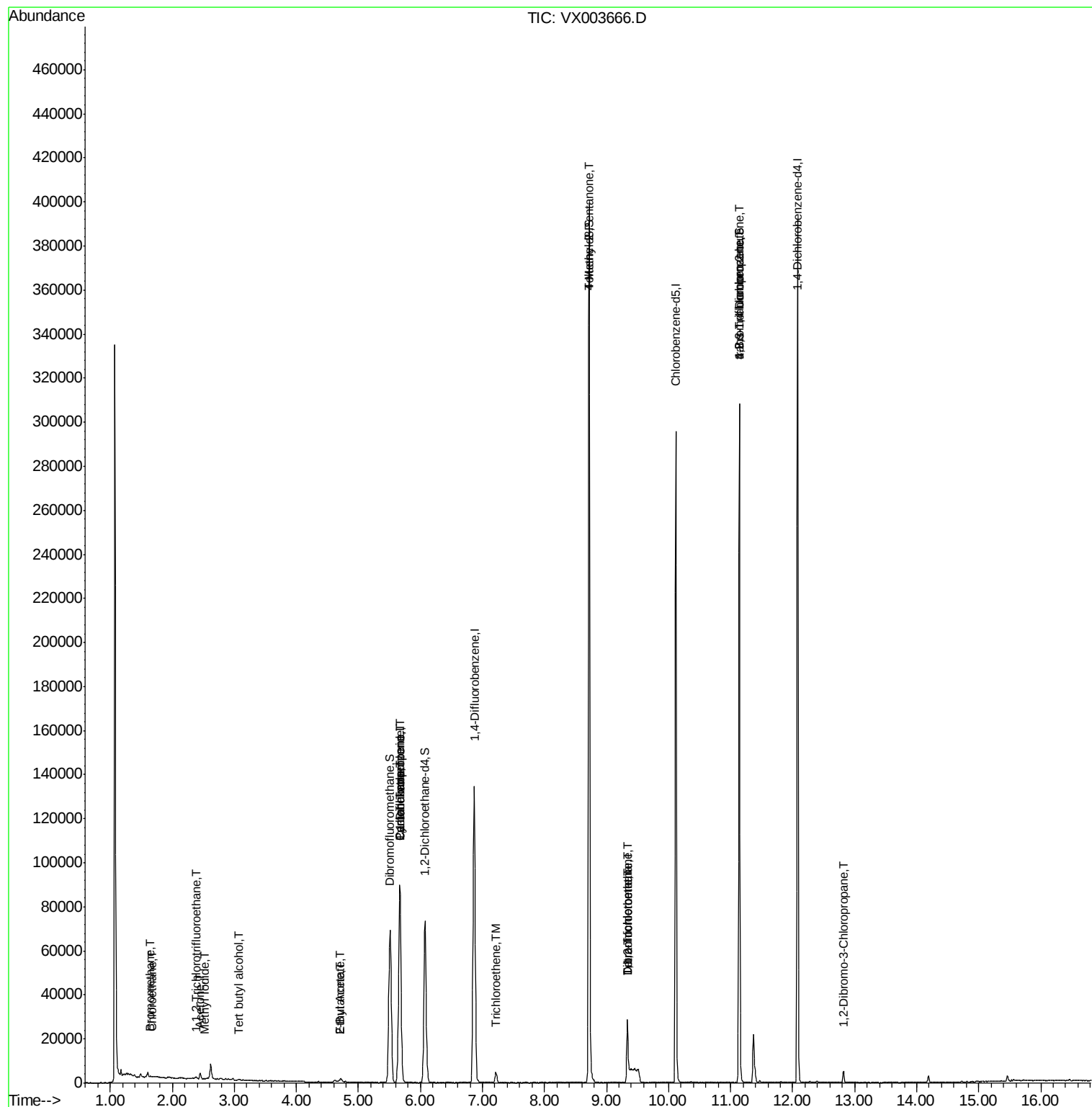
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	317	0.472	ug/l #	69
6) Chloroethane	1.67	64	1012	2.845	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	2.38	101	291	0.264	ug/l #	91
10) Methyl Iodide	2.51	142	41	3.199	ug/l #	41
11) Tert butyl alcohol	3.07	59	410	1.277	ug/l #	72
16) Acetone	2.45	43	2749	4.358	ug/l	95
25) 2-Butanone	4.71	43	3029	3.108	ug/l	94
31) Cyclohexane	5.67	56	1749	0.969	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6290	3.878	ug/l #	49
37) Ethyl Acetate	4.71	43	3029	1.553	ug/l #	67
38) Carbon Tetrachloride	5.66	117	8340	5.335	ug/l #	14
44) Trichloroethene	7.21	130	1997	1.552	ug/l	100
51) 4-Methyl-2-Pentanone	8.72	43	1054	0.549	ug/l #	1
55) 1,1,2-Trichloroethane	9.34	97	245	0.201	ug/l #	15
60) Dibromochloromethane	9.34	129	645	0.558	ug/l #	11
64) Tetrachloroethene	9.34	164	787	0.664	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	40024	22.948	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	40024	71.099	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.82	75	120	0.275	ug/l #	1

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

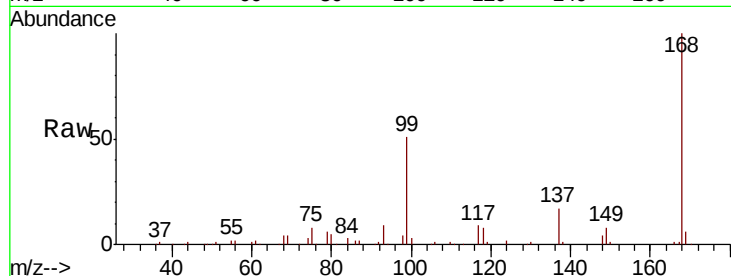
RE123D2-071818

Tgt Ion:168 Resp: 90648

Ion Ratio Lower Upper

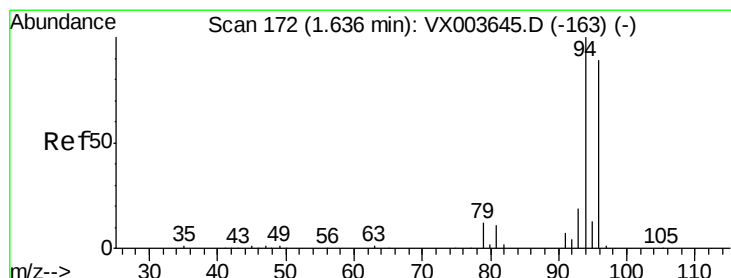
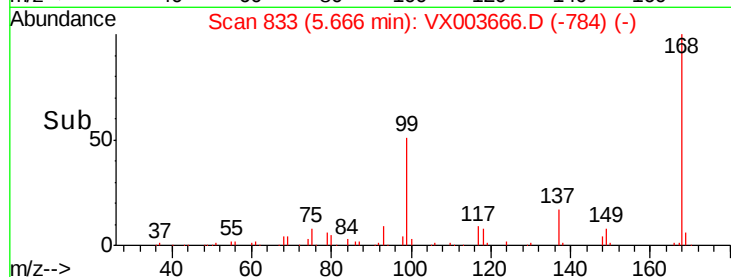
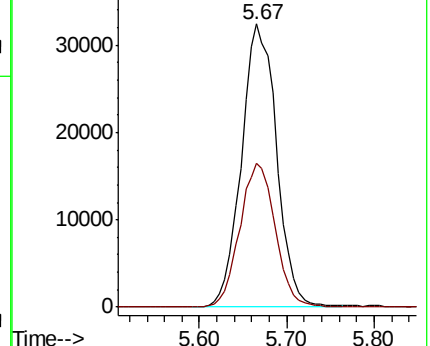
168 100

99 50.6 49.5 74.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: 0.472 ug/l

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003666.D

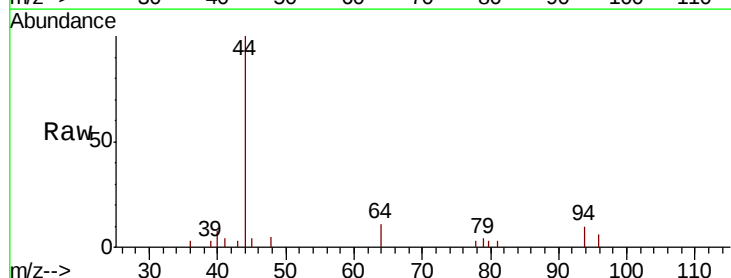
Acq: 25 Jul 2018 19:04

Tgt Ion: 94 Resp: 317

Ion Ratio Lower Upper

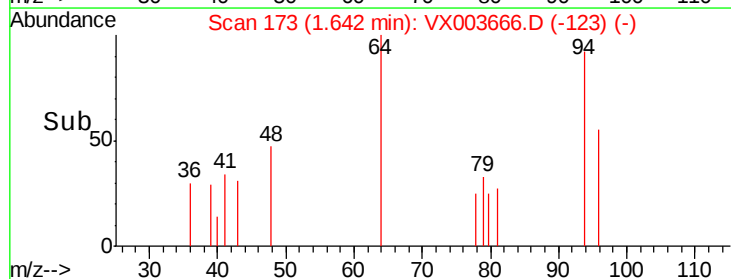
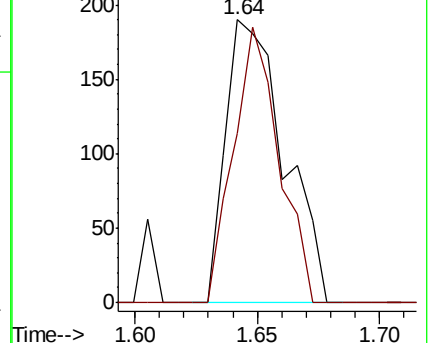
94 100

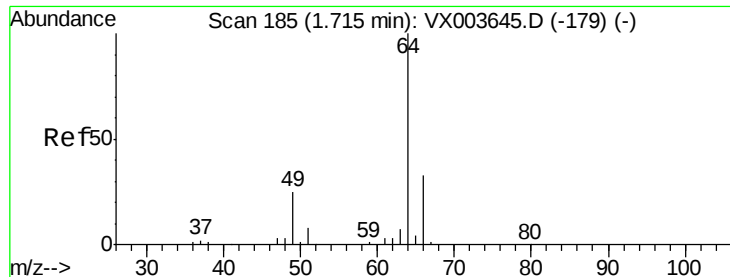
96 60.0 71.3 106.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 2.845 ug/l

RT: 1.67 min Scan# 177

Delta R.T. -0.05 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

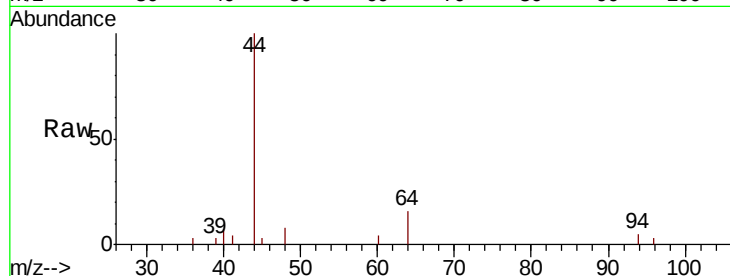
RE123D2-071818

Tgt Ion: 64 Resp: 1012

Ion Ratio Lower Upper

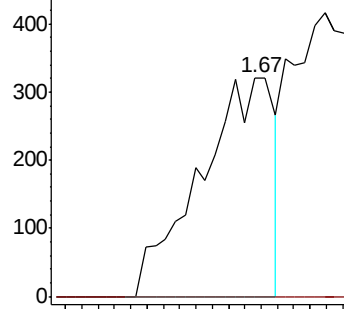
64 100

66 0.0 26.3 39.5#

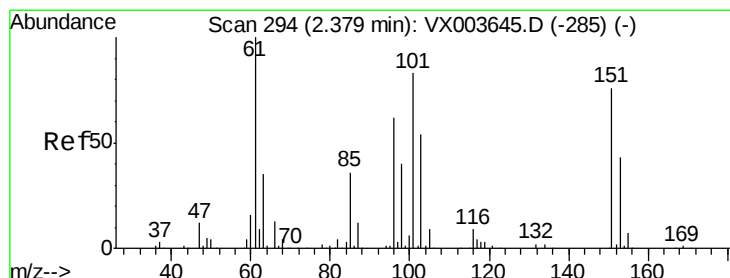
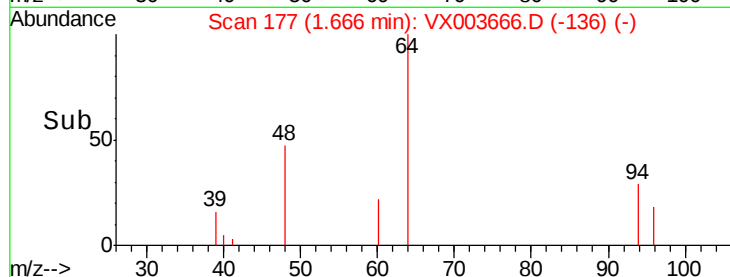


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.264 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

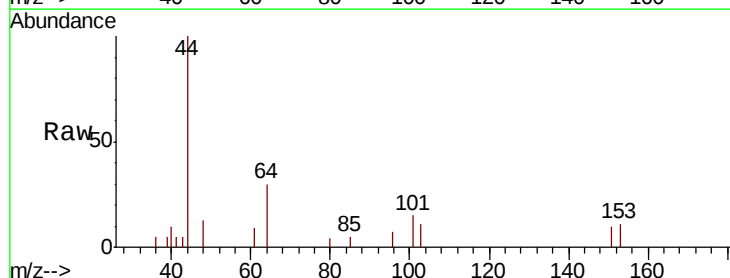
Tgt Ion: 101 Resp: 291

Ion Ratio Lower Upper

101 100

85 34.0 34.6 52.0#

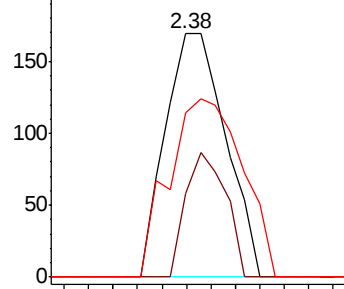
151 89.3 67.5 101.3



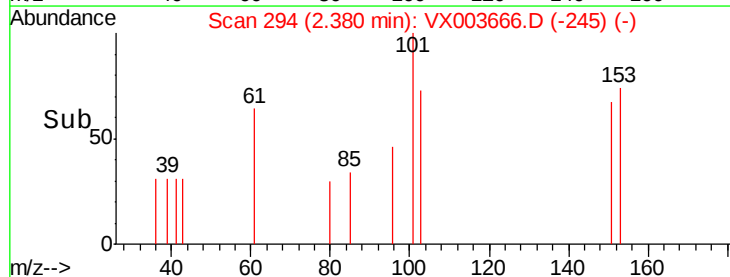
Abundance Ion 100.90 (100.60 to 101.60): V

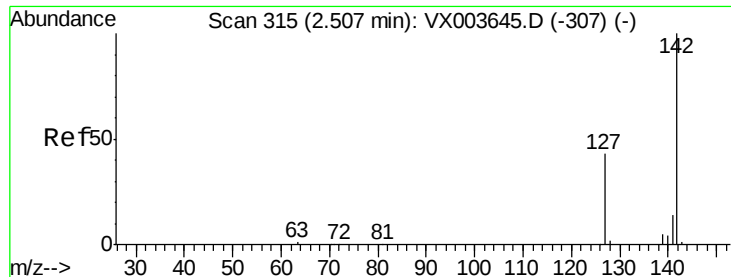
Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



Time-->

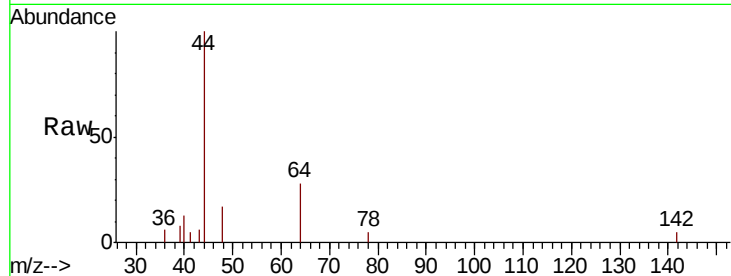




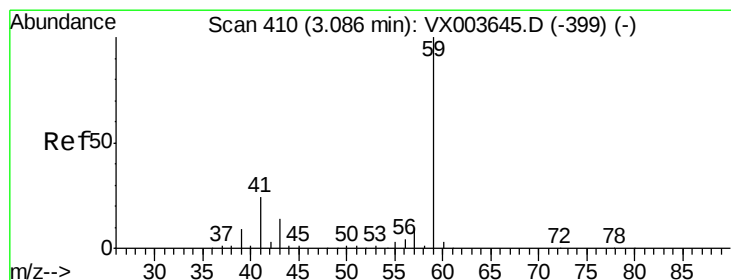
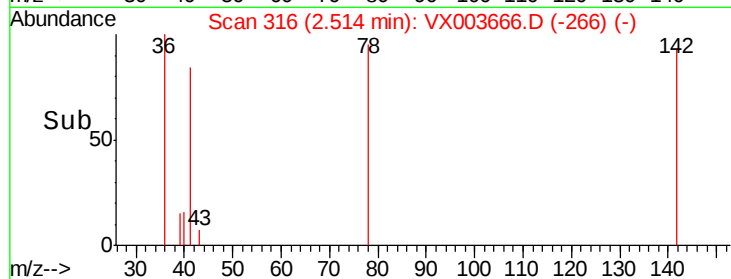
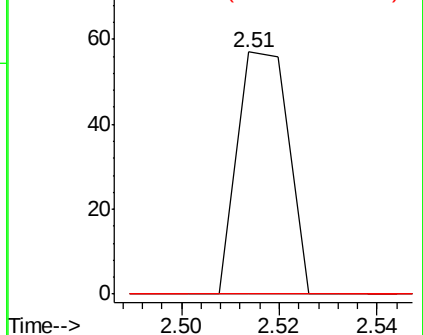
#10
Methyl Iodide
Concen: 3.199 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX003666.D
Acq: 25 Jul 2018 19:04

Instrument :
MSVOA_X
ClientSampleId :
RE123D2-071818

Tgt Ion: 142 Resp: 41
Ion Ratio Lower Upper
142 100
127 0.0 34.0 51.0#
141 0.0 11.3 16.9#

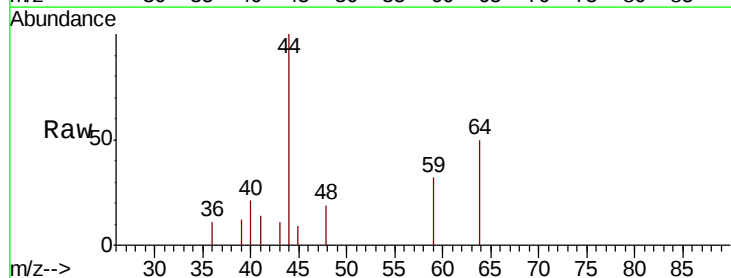


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

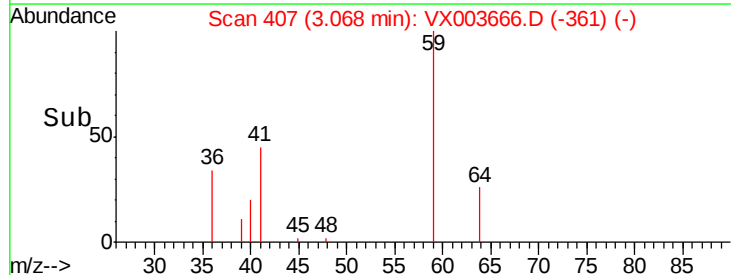
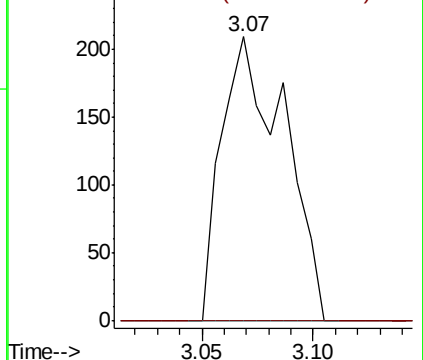


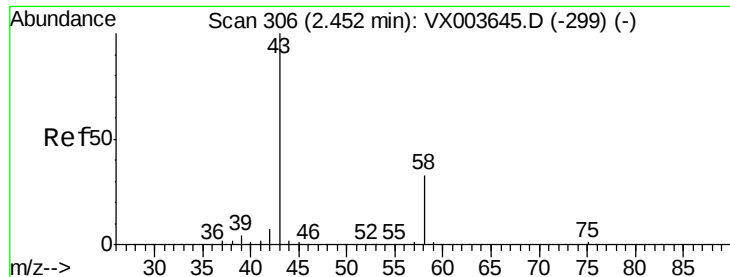
#11
Tert butyl alcohol
Concen: 1.277 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.02 min
Lab File: VX003666.D
Acq: 25 Jul 2018 19:04

Tgt Ion: 59 Resp: 410
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 4.358 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

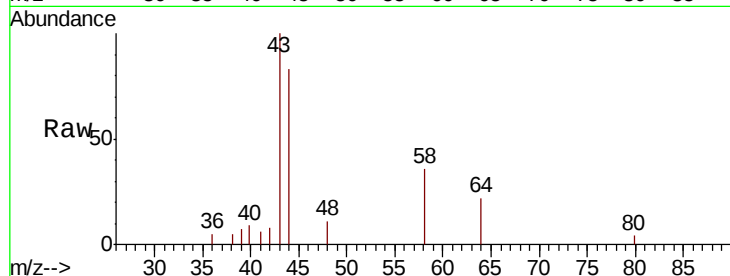
RE123D2-071818

Tgt Ion: 43 Resp: 2749

Ion Ratio Lower Upper

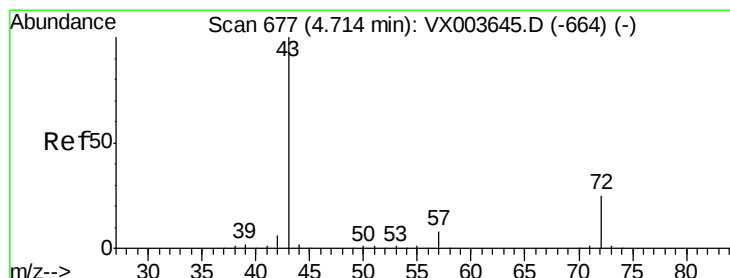
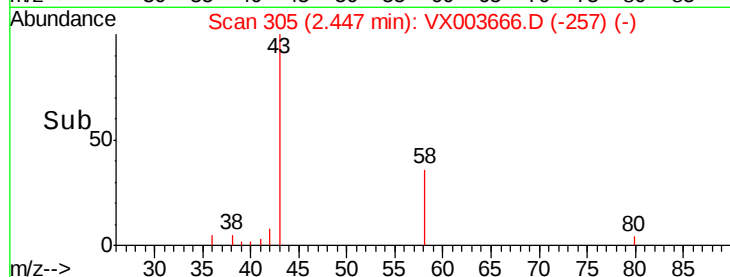
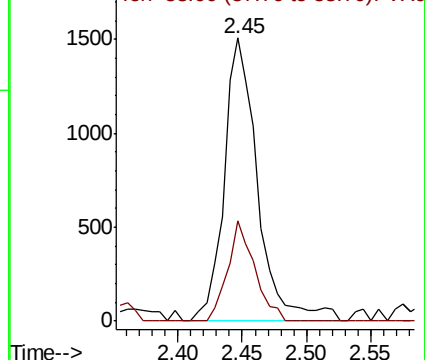
43 100

58 35.5 26.1 39.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 3.108 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003666.D

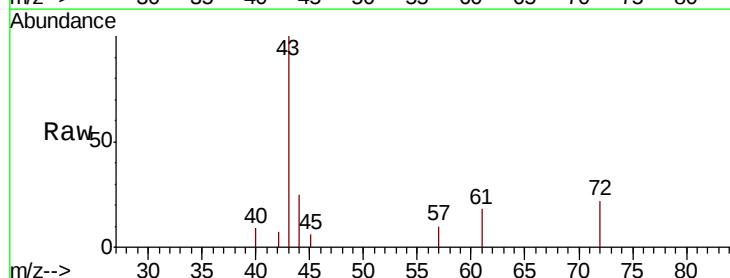
Acq: 25 Jul 2018 19:04

Tgt Ion: 43 Resp: 3029

Ion Ratio Lower Upper

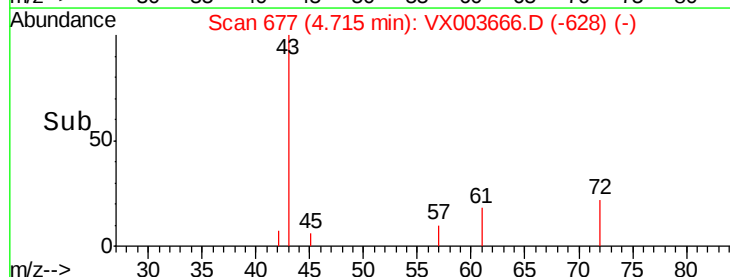
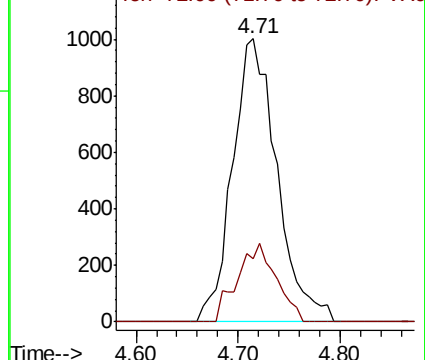
43 100

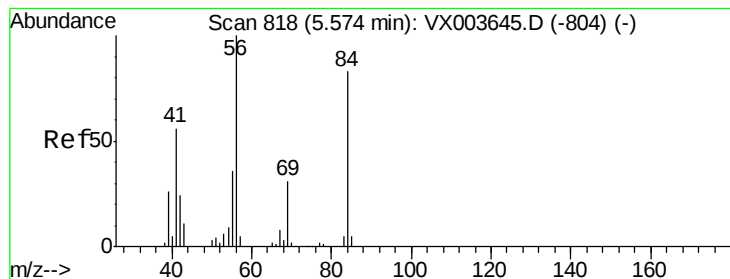
72 22.5 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#31

Cyclohexane

Concen: 0.969 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

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ClientSampleId :

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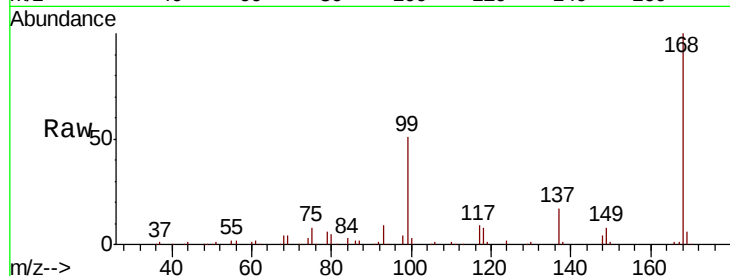
Tgt Ion: 56 Resp: 1749

Ion Ratio Lower Upper

56 100

69 178.1 25.0 37.6#

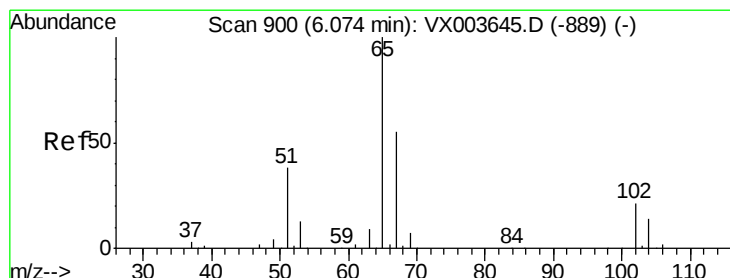
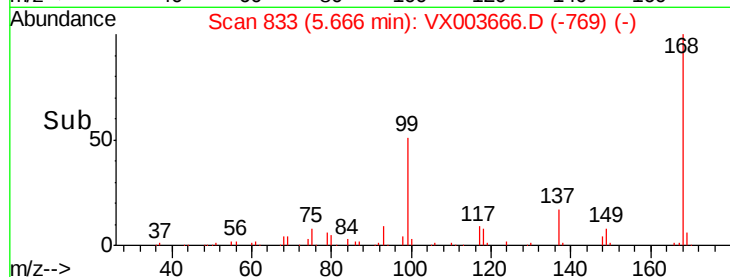
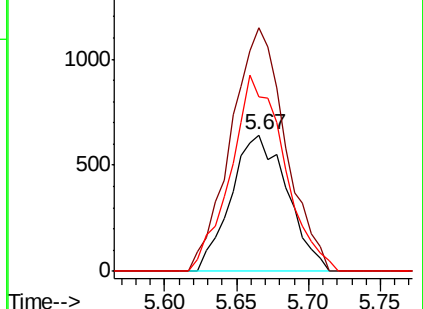
84 127.5 66.5 99.7#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 52.547 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX003666.D

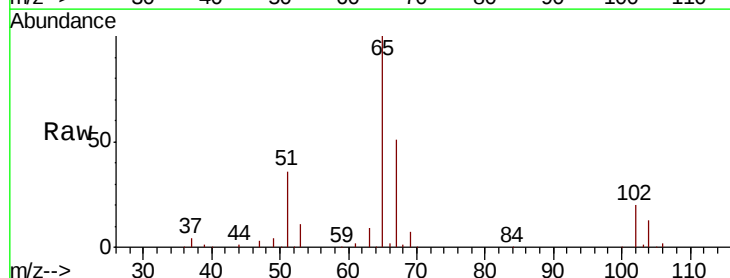
Acq: 25 Jul 2018 19:04

Tgt Ion: 65 Resp: 70558

Ion Ratio Lower Upper

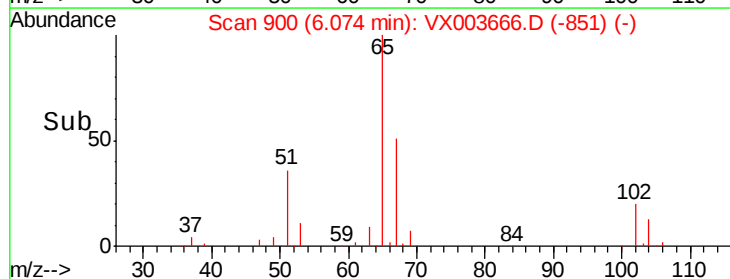
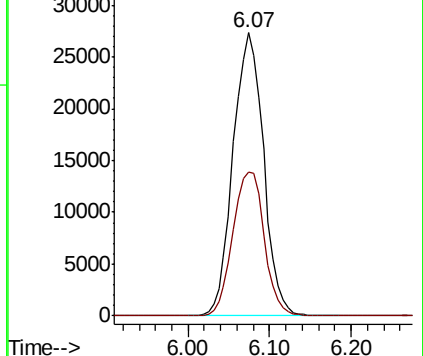
65 100

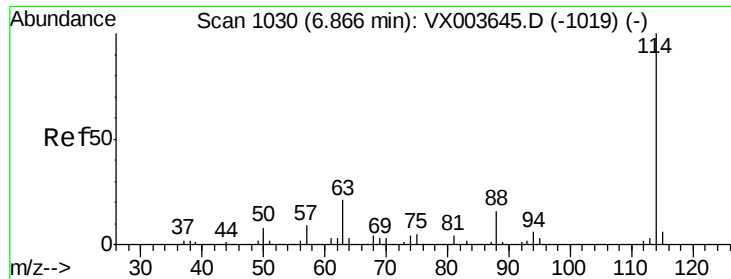
67 52.5 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

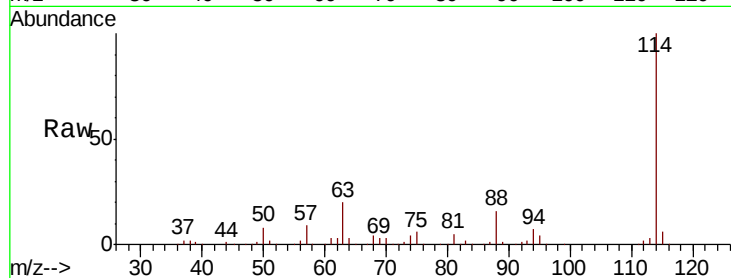




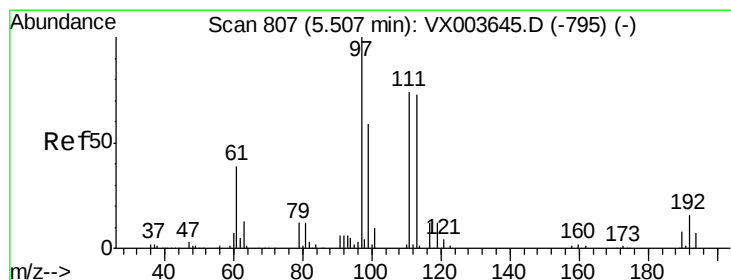
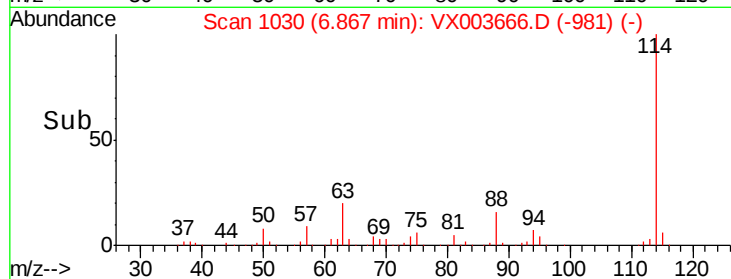
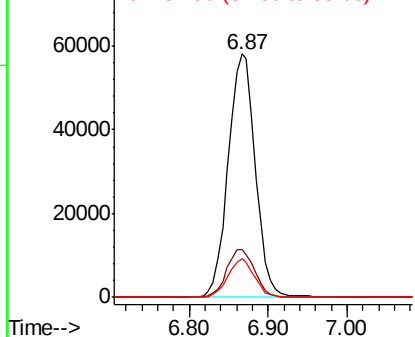
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003666.D
 Acq: 25 Jul 2018 19:04

Instrument :
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 RE123D2-071818

Tgt Ion:114 Resp: 138754
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 41.0
 88 15.7 0.0 31.8

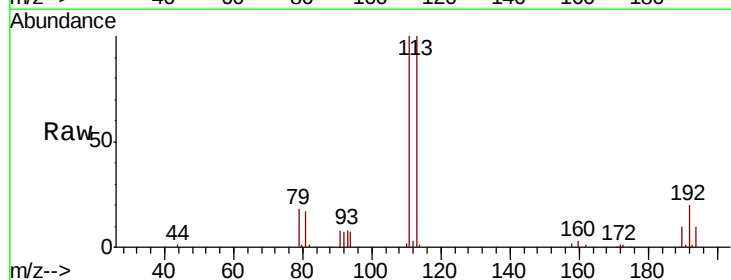


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

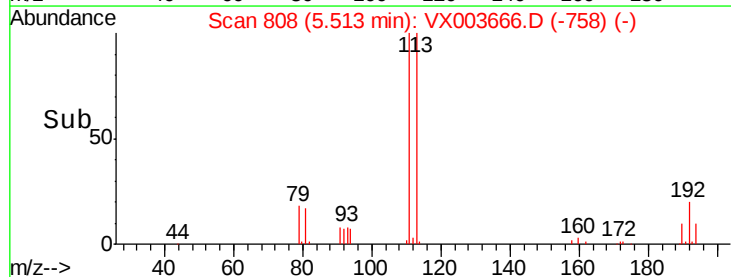
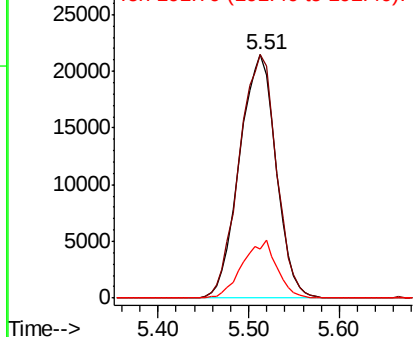


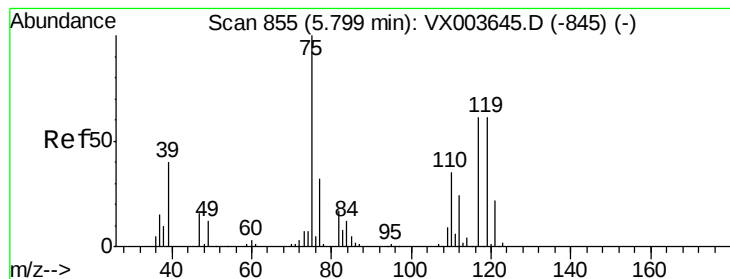
#35
 Dibromofluoromethane
 Concen: 52.890 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. 0.01 min
 Lab File: VX003666.D
 Acq: 25 Jul 2018 19:04

Tgt Ion:113 Resp: 59993
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.2 121.8
 192 22.4 18.2 27.4



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.878 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

RE123D2-071818

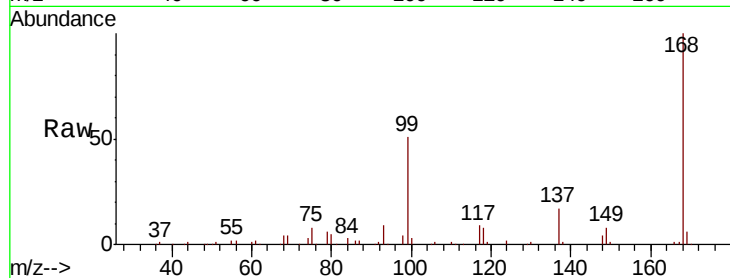
Tgt Ion: 75 Resp: 6290

Ion Ratio Lower Upper

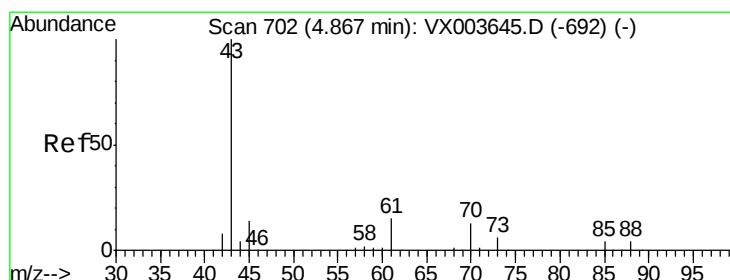
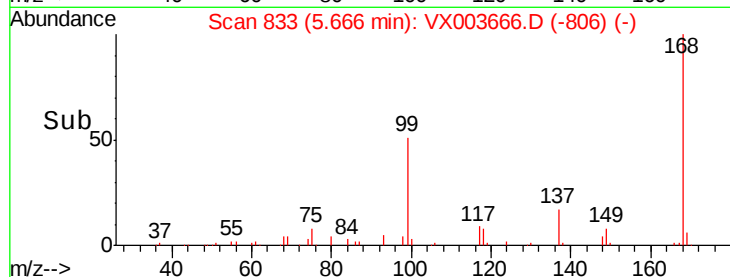
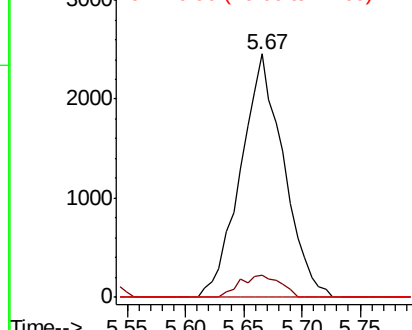
75 100

110 8.6 18.1 54.1#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 1.553 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.15 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

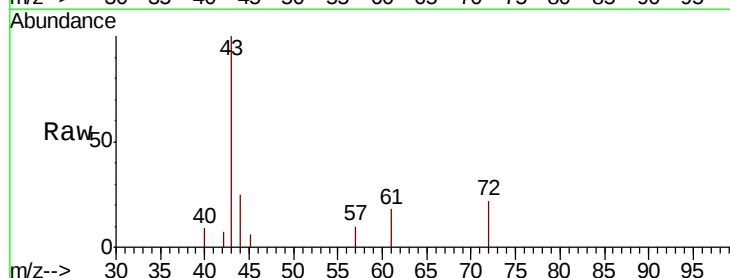
Tgt Ion: 43 Resp: 3029

Ion Ratio Lower Upper

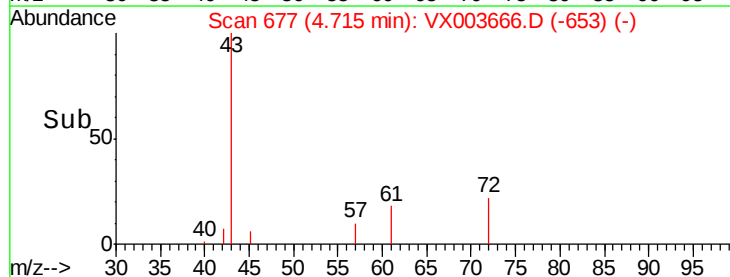
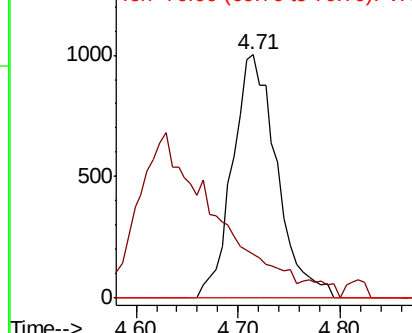
43 100

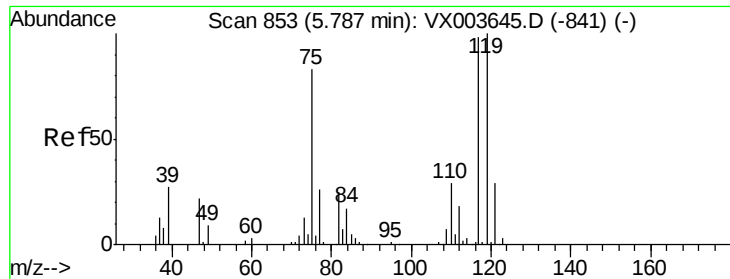
61 0.0 11.9 17.9#

70 0.0 8.6 12.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

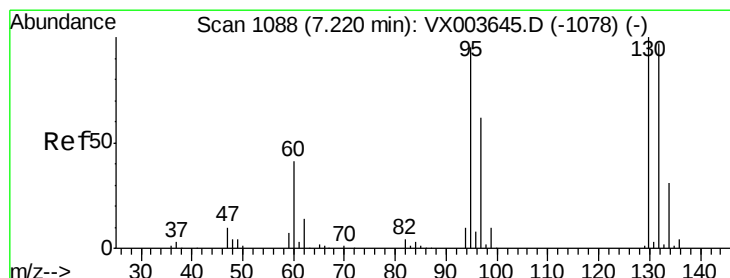
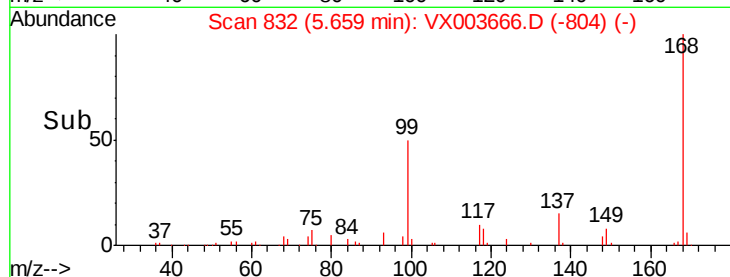
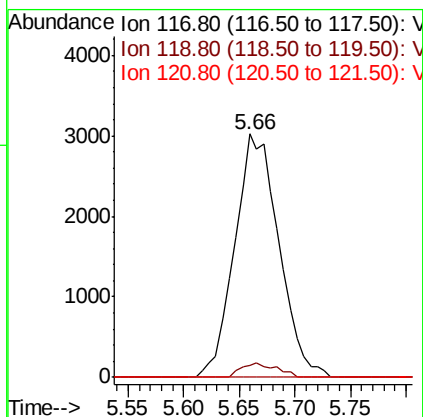
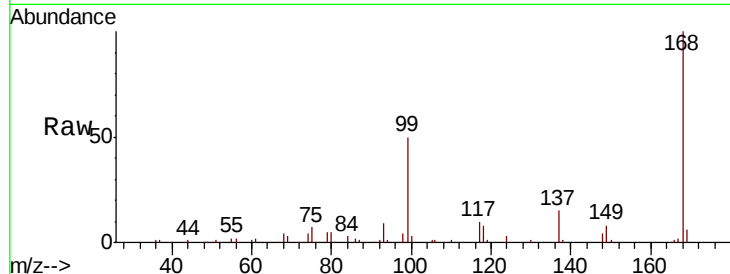




#38
Carbon Tetrachloride
Concen: 5.335 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.13 min
Lab File: VX003666.D
Acq: 25 Jul 2018 19:04

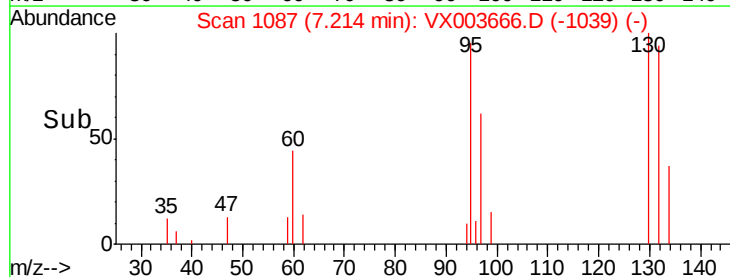
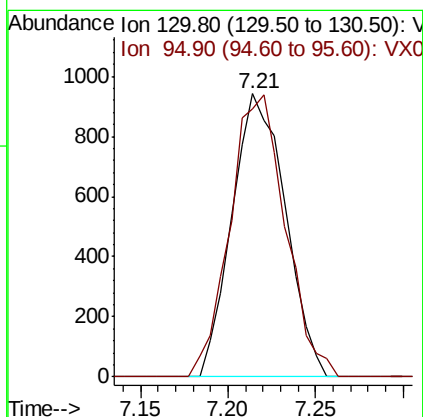
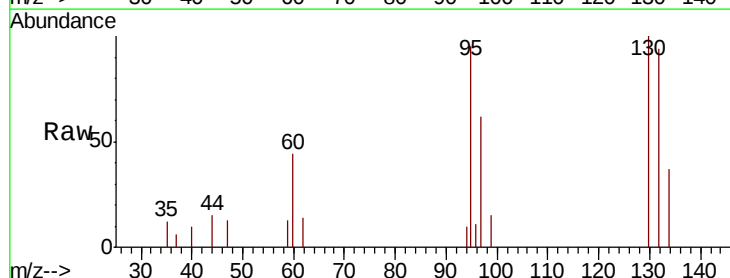
Instrument :
MSVOA_X
ClientSampleId :
RE123D2-071818

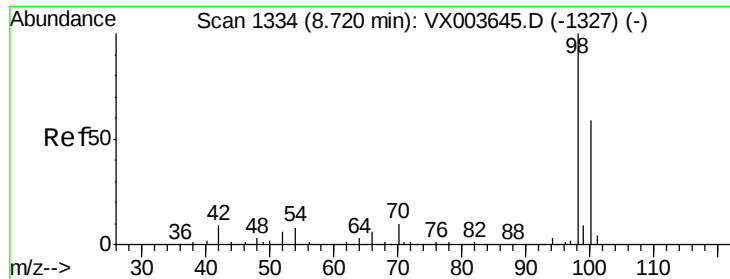
Tgt Ion:117 Resp: 8340
Ion Ratio Lower Upper
117 100
119 5.1 81.0 121.4#
121 0.0 23.7 35.5#



#44
Trichloroethene
Concen: 1.552 ug/l
RT: 7.21 min Scan# 1087
Delta R.T. -0.01 min
Lab File: VX003666.D
Acq: 25 Jul 2018 19:04

Tgt Ion:130 Resp: 1997
Ion Ratio Lower Upper
130 100
95 94.6 0.0 190.0





#50

Toluene-d8

Concen: 53.562 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

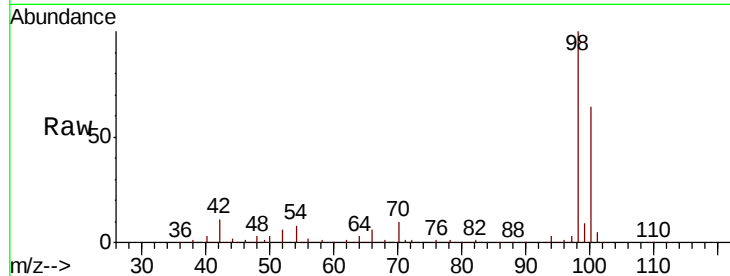
RE123D2-071818

Tgt Ion: 98 Resp: 231863

Ion Ratio Lower Upper

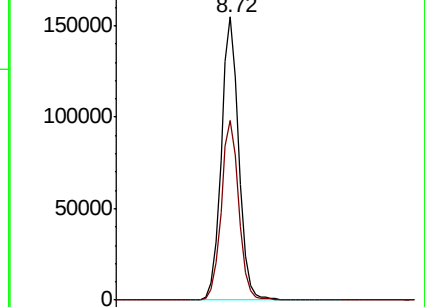
98 100

100 63.9 50.9 76.3

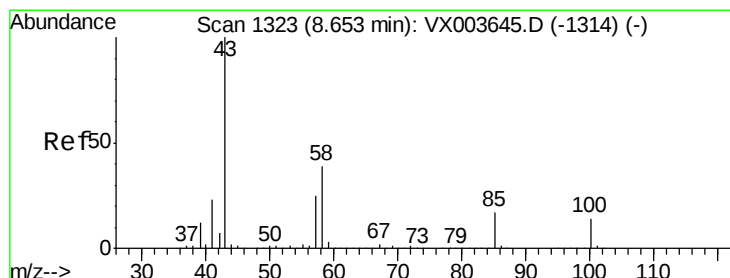
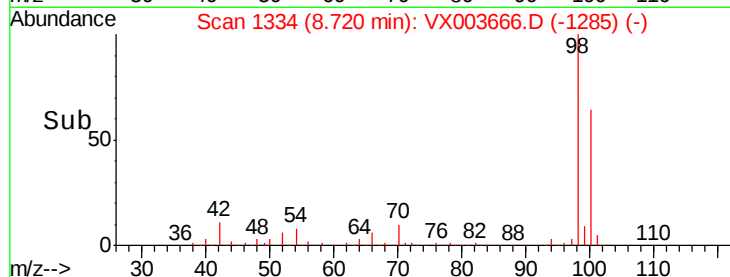


Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time--> 8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 0.549 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VX003666.D

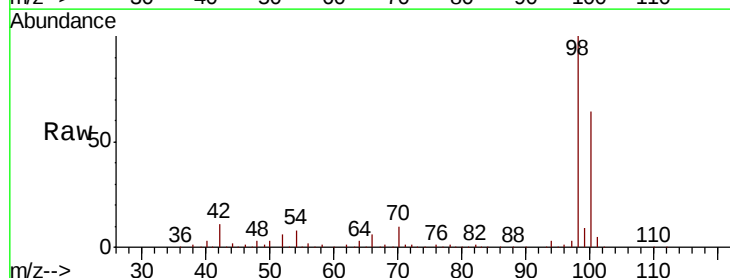
Acq: 25 Jul 2018 19:04

Tgt Ion: 43 Resp: 1054

Ion Ratio Lower Upper

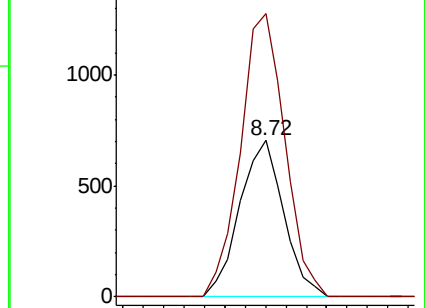
43 100

58 182.7 31.5 47.3#

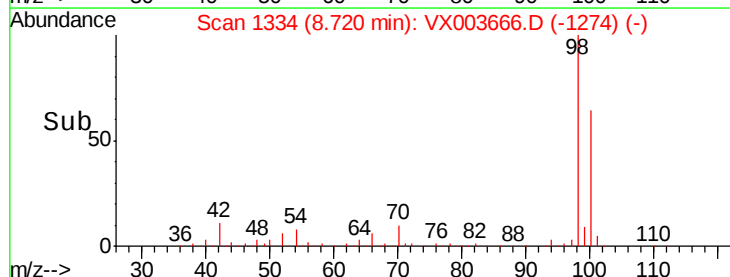


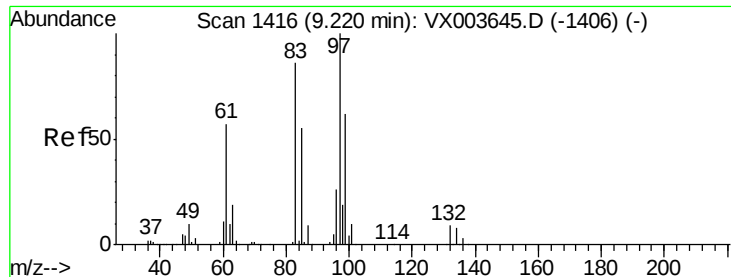
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time--> 8.65 8.70 8.75

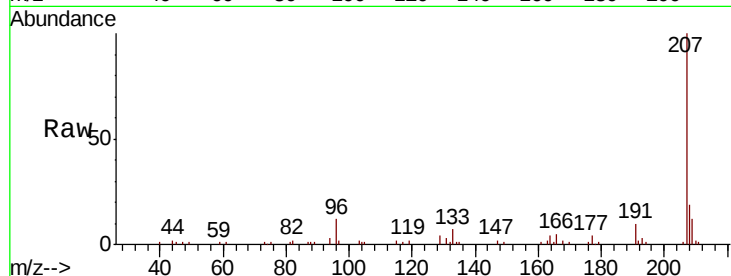




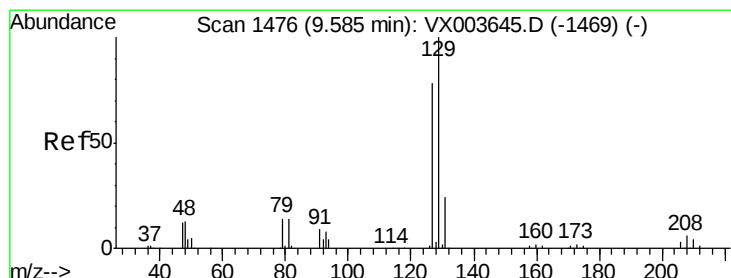
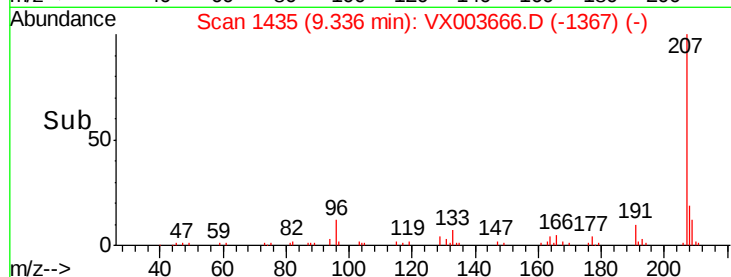
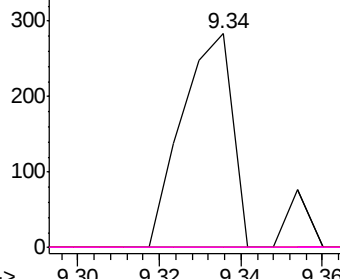
#55
 1,1,2-Trichloroethane
 Concen: 0.201 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. 0.12 min
 Lab File: VX003666.D
 Acq: 25 Jul 2018 19:04

Instrument :
 MSVOA_X
 ClientSampleId :
 RE123D2-071818

Tgt Ion: 97 Resp: 245
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.7 103.1#
 85 0.0 43.7 65.5#
 99 0.0 49.6 74.4#

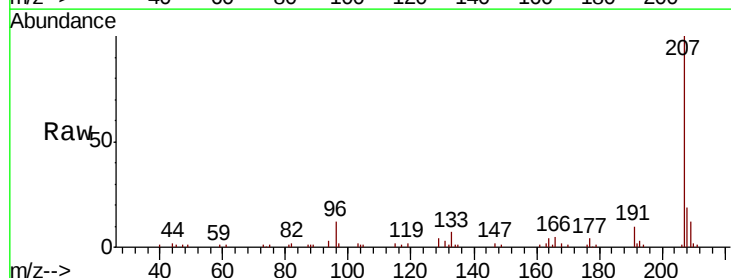


Abundance Ion 96.90 (96.60 to 97.60): VX0
 Ion 82.90 (82.60 to 83.60): VX0
 Ion 84.90 (84.60 to 85.60): VX0
 Ion 98.90 (98.60 to 99.60): VX0

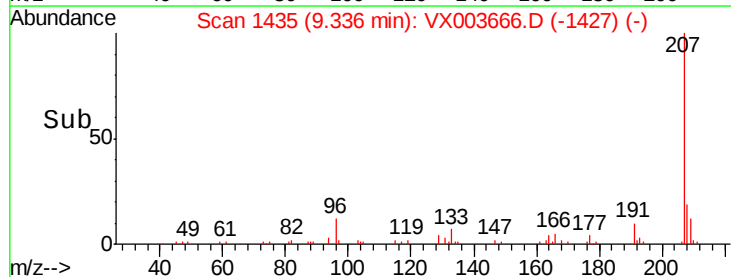
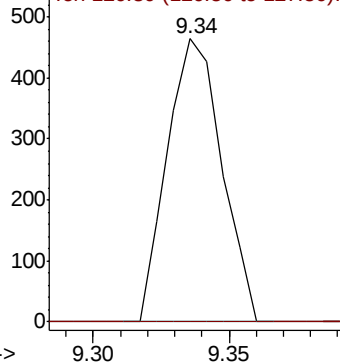


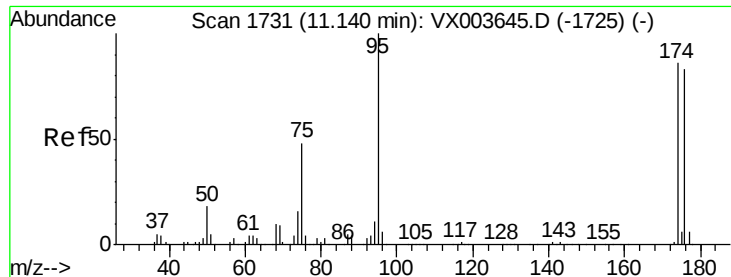
#60
 Dibromochloromethane
 Concen: 0.558 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. -0.25 min
 Lab File: VX003666.D
 Acq: 25 Jul 2018 19:04

Tgt Ion: 129 Resp: 645
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.7 116.1#



Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 49.509 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

RE123D2-071818

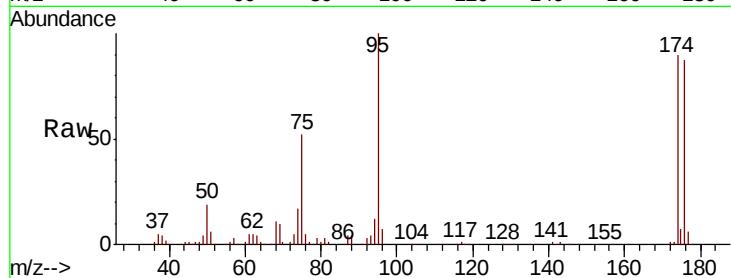
Tgt Ion: 95 Resp: 78170

Ion Ratio Lower Upper

95 100

174 89.9 0.0 179.0

176 85.9 0.0 173.0

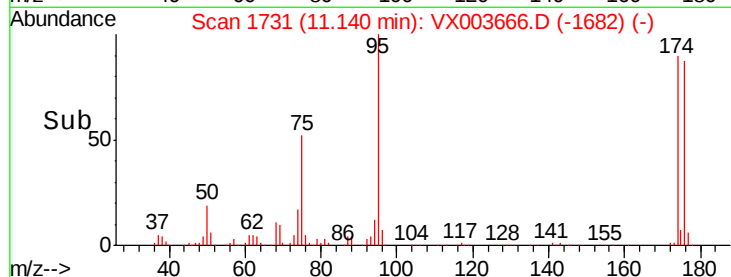


Abundance Ion 94.90 (94.60 to 95.60): VX003645.D (-1725) (-)

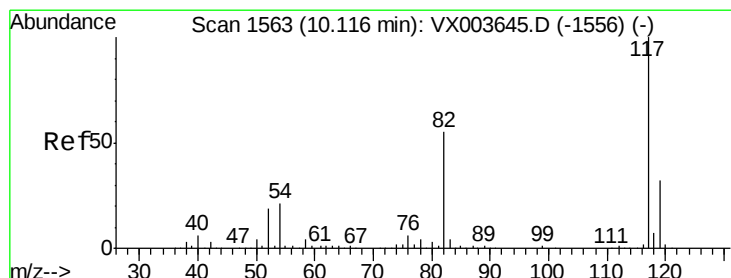
Ion 173.80 (173.50 to 174.50): VX003645.D (-1725) (-)

Ion 175.80 (175.50 to 176.50): VX003645.D (-1725) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

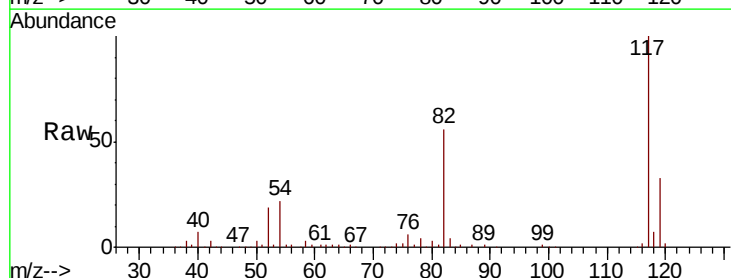
Tgt Ion: 117 Resp: 129697

Ion Ratio Lower Upper

117 100

82 56.3 44.3 66.5

119 32.6 25.6 38.4

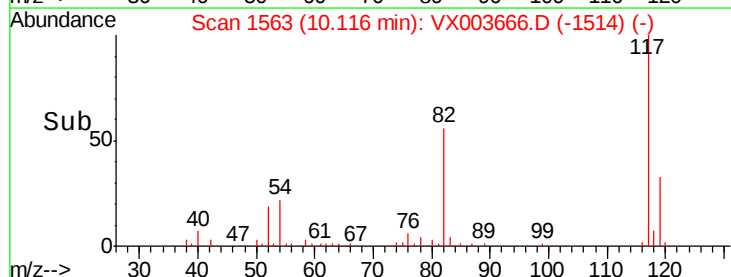


Abundance Ion 116.90 (116.60 to 117.60): VX003645.D (-1556) (-)

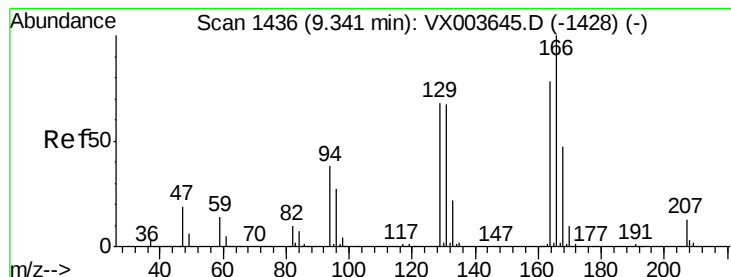
Ion 82.00 (81.70 to 82.70): VX003645.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX003645.D (-1556) (-)

Time-->



Time-->



#64

Tetrachloroethene

Concen: 0.664 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.01 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

RE123D2-071818

Tgt Ion:164 Resp: 787

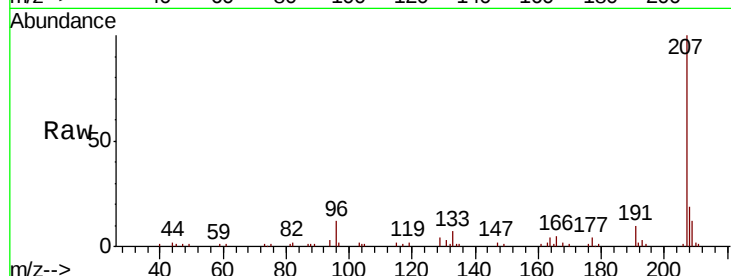
Ion Ratio Lower Upper

164 100

166 124.2 102.4 153.6

129 86.2 69.6 104.4

131 73.8 69.0 103.4

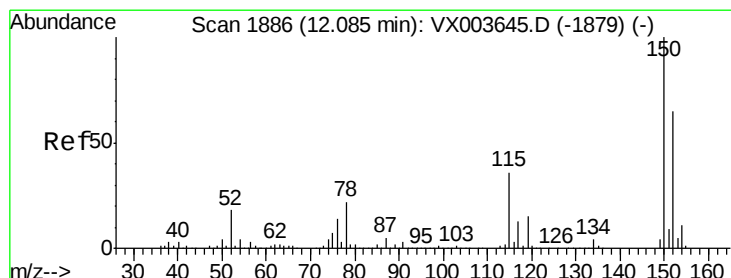
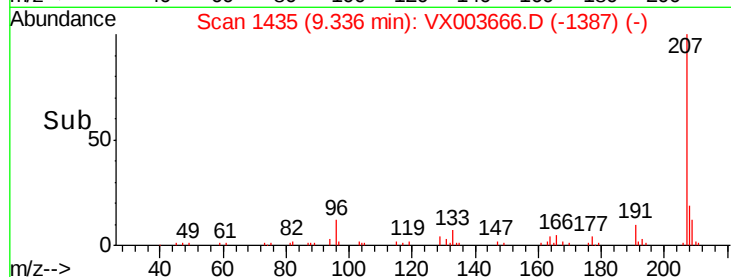
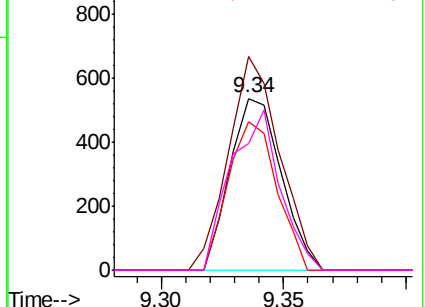


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

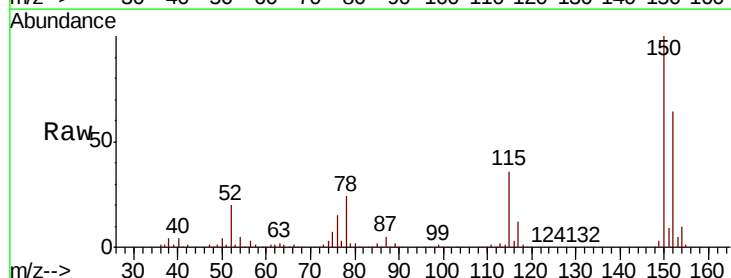
Tgt Ion:152 Resp: 83153

Ion Ratio Lower Upper

152 100

115 55.8 40.0 119.9

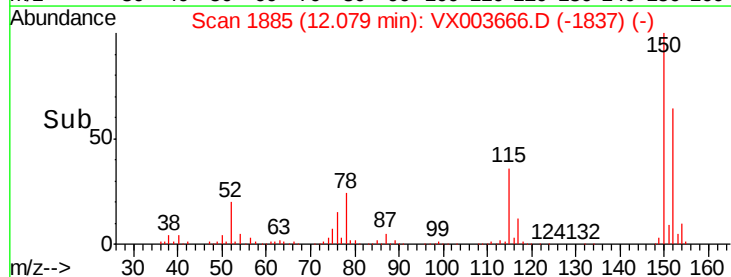
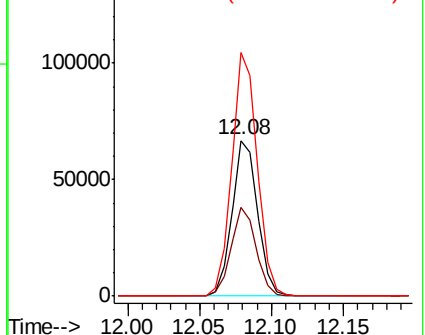
150 156.3 0.0 348.4

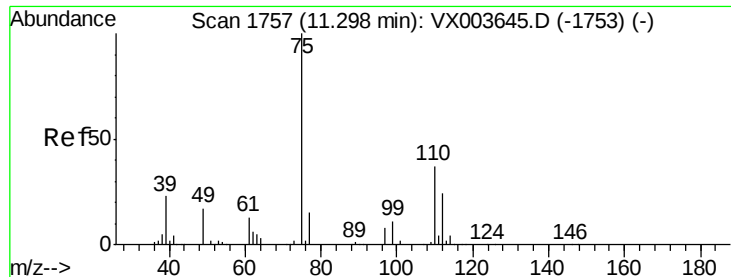


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 22.948 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

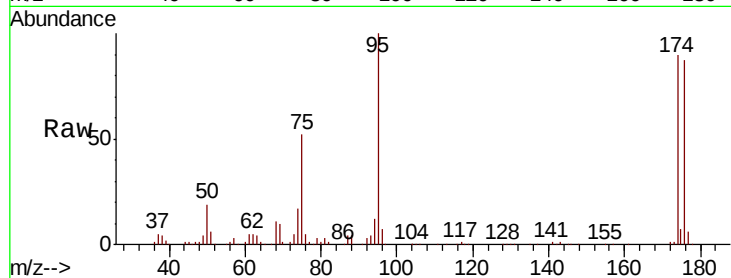
RE123D2-071818

Tgt Ion: 75 Resp: 40024

Ion Ratio Lower Upper

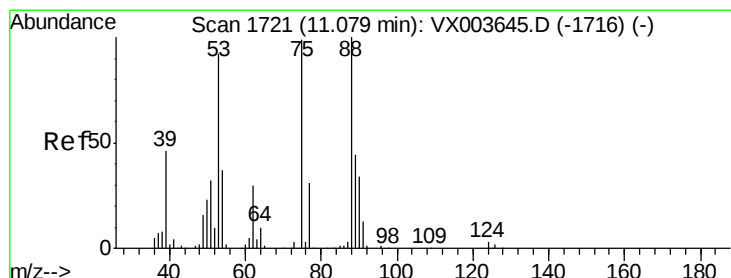
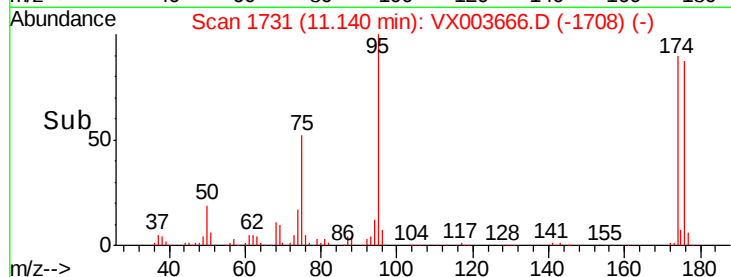
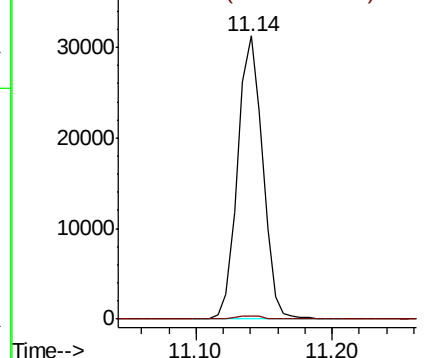
75 100

77 1.2 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 71.099 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

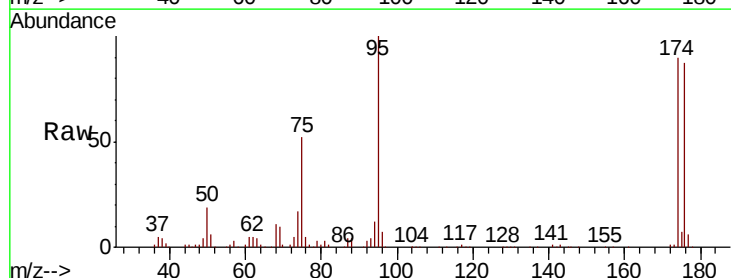
Tgt Ion: 75 Resp: 40024

Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

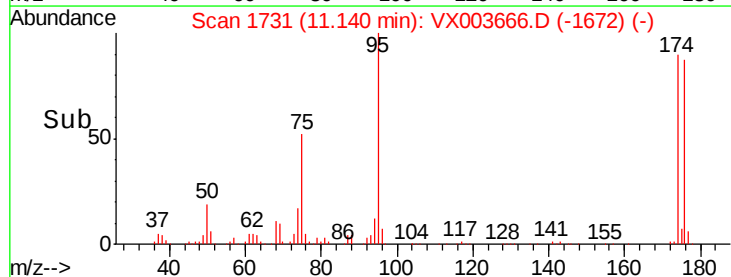
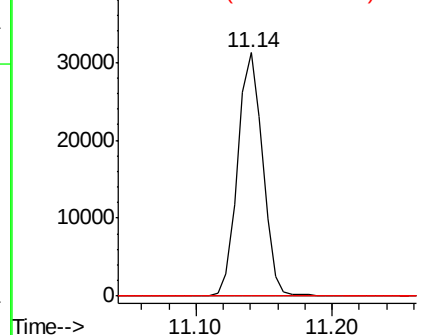
89 0.1 36.6 54.8#

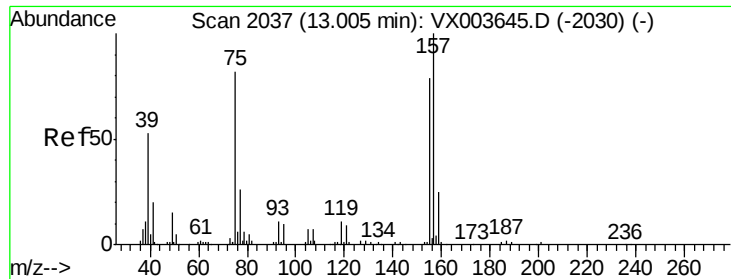


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.275 ug/l

RT: 12.82 min Scan# 2006

Delta R.T. -0.19 min

Lab File: VX003666.D

Acq: 25 Jul 2018 19:04

Instrument :

MSVOA_X

ClientSampleId :

RE123D2-071818

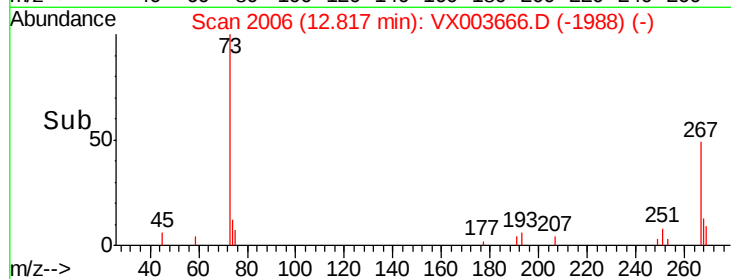
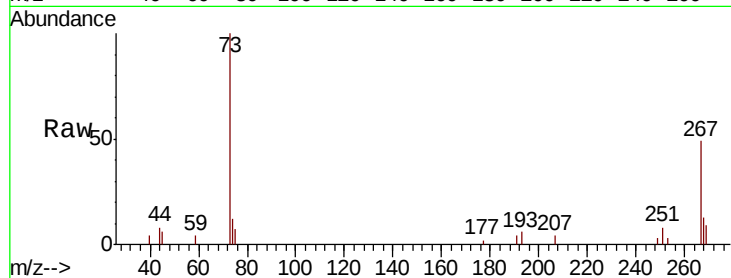
Tgt Ion: 75 Resp: 120

Ion Ratio Lower Upper

75 100

155 0.0 46.1 138.3#

157 0.0 59.7 179.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

