

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX072518\
 Data File : VX003665.D
 Acq On : 25 Jul 2018 18:37
 Operator : JC/SP
 Sample : J4073-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D3-071718

Quant Time: Jul 27 04:36:08 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	90329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	140288	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	148350	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	73136	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	71741	53.62	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.24%		
35) Dibromofluoromethane	5.51	113	56654	49.40	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.80%		
50) Toluene-d8	8.72	98	232202	53.05	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.10%		
62) 4-Bromofluorobenzene	11.14	95	82201	51.49	ug/l	0.00
Spiked Amount 50.000			Recovery =	102.98%		

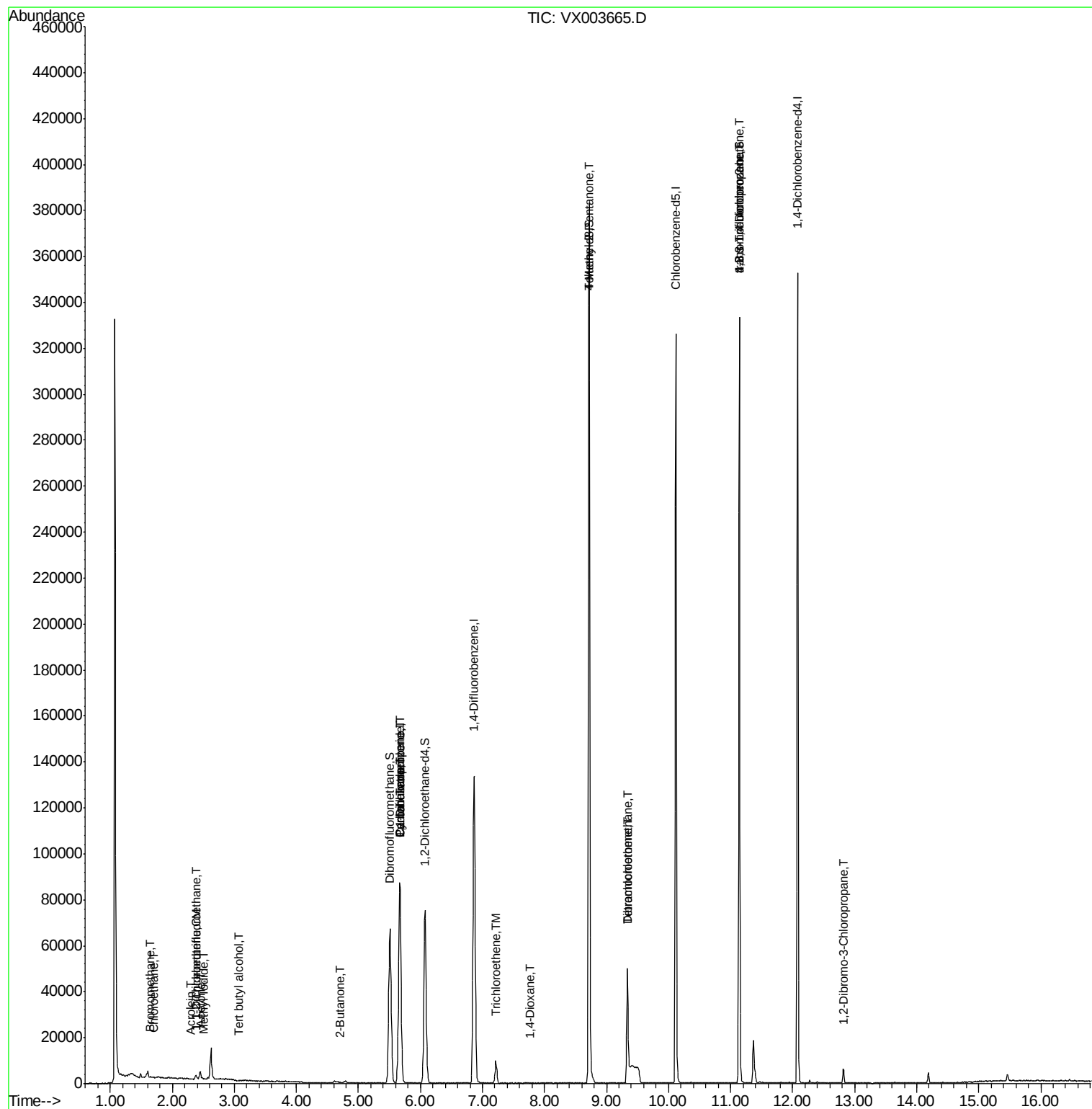
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	334	0.499	ug/l	91
6) Chloroethane	1.71	64	1399	3.189	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	2.38	101	542	0.494	ug/l	97
10) Methyl Iodide	2.51	142	112	3.244	ug/l #	41
11) Tert butyl alcohol	3.07	59	74	0.231	ug/l #	72
12) 1,1-Dichloroethene	2.37	96	272	0.260	ug/l #	72
13) Acrolein	2.30	56	20	4.154	ug/l #	15
16) Acetone	2.45	43	3398	5.406	ug/l	92
25) 2-Butanone	4.71	43	384	0.395	ug/l #	50
31) Cyclohexane	5.67	56	1755	0.976	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	6208	3.786	ug/l #	50
38) Carbon Tetrachloride	5.67	117	8089	5.118	ug/l #	14
44) Trichloroethene	7.22	130	3933	3.023	ug/l	97
49) 1,4-Dioxane	7.77	88	40	1.228	ug/l #	68
51) 4-Methyl-2-Pentanone	8.72	43	1027	0.529	ug/l #	1
60) Dibromochloromethane	9.34	129	1318	1.127	ug/l #	11
64) Tetrachloroethene	9.34	164	1497	1.104	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	41280	26.910	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.14	75	41280	83.374	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	12.81	75	144	0.375	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# 834

Delta R.T. 0.01 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

Instrument :

MSVOA_X

ClientSampleId :

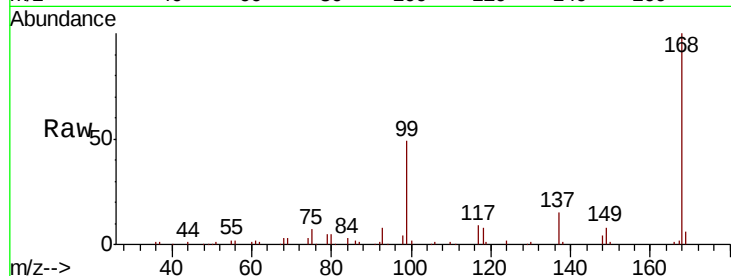
RE126D3-071718

Tgt Ion:168 Resp: 90329

Ion Ratio Lower Upper

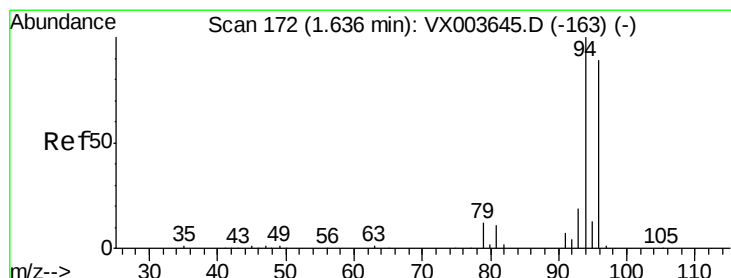
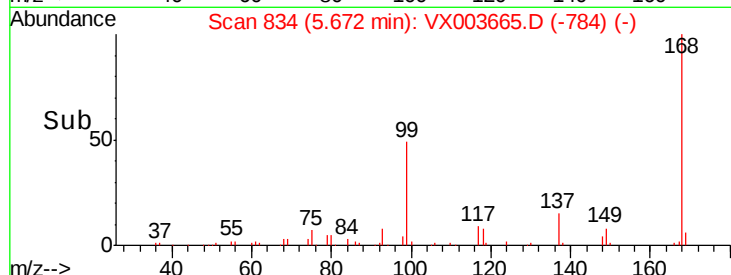
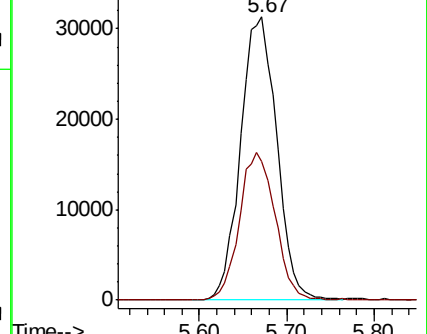
168 100

99 49.2 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: 0.499 ug/l

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX003665.D

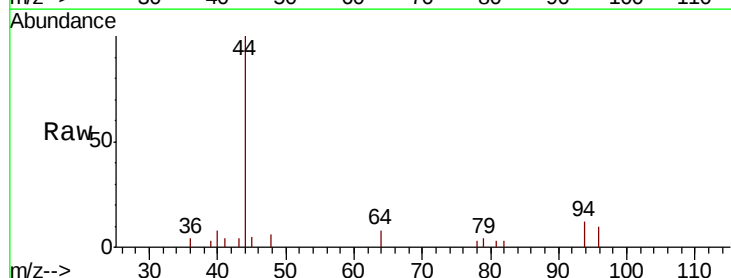
Acq: 25 Jul 2018 18:37

Tgt Ion: 94 Resp: 334

Ion Ratio Lower Upper

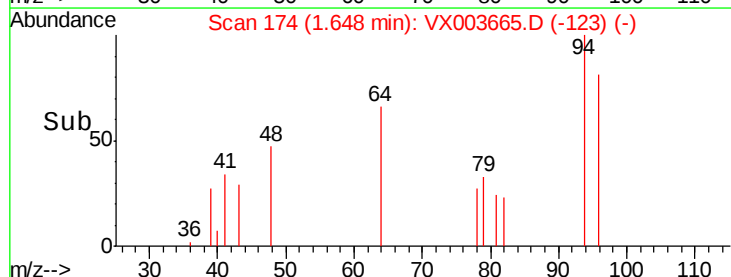
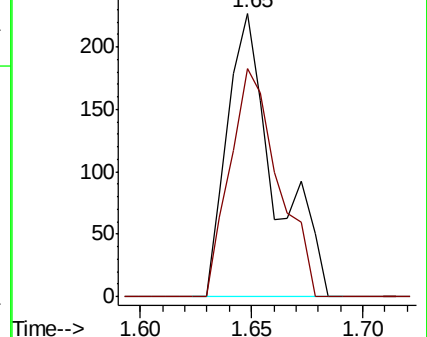
94 100

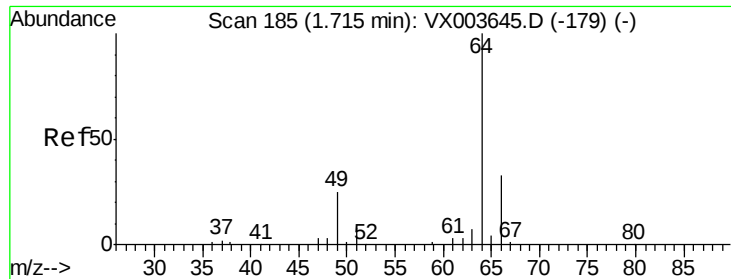
96 80.6 71.3 106.9



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 3.189 ug/l

RT: 1.71 min Scan# 184

Delta R.T. -0.01 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

Instrument :

MSVOA_X

ClientSampleId :

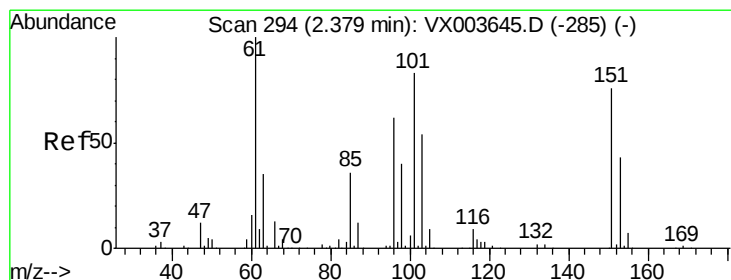
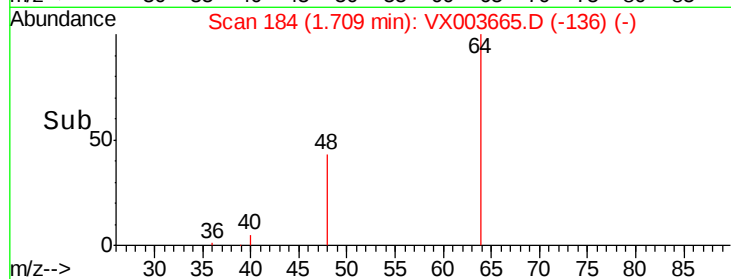
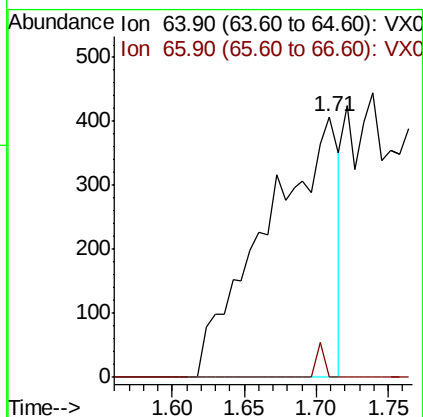
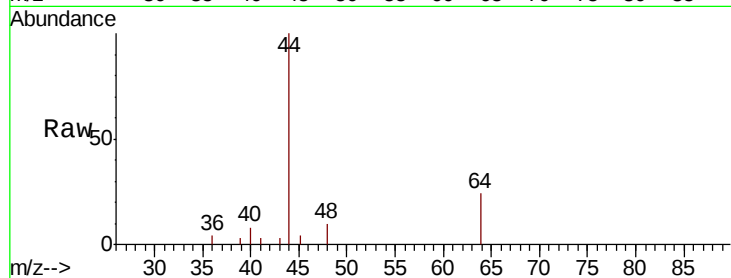
RE126D3-071718

Tgt Ion: 64 Resp: 1399

Ion Ratio Lower Upper

64 100

66 0.0 26.3 39.5#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.494 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

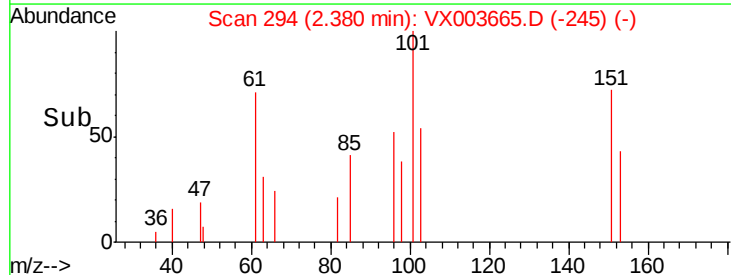
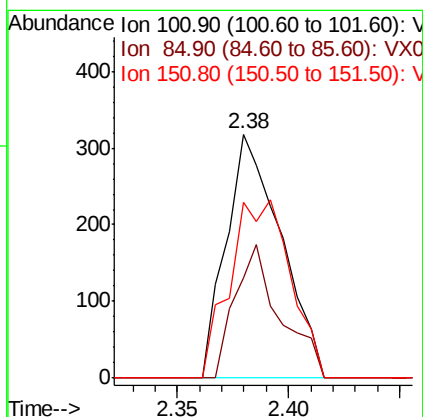
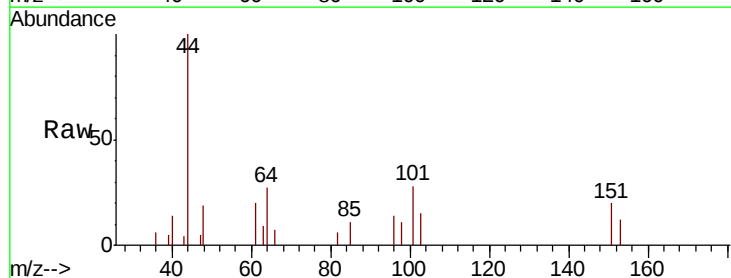
Tgt Ion: 101 Resp: 542

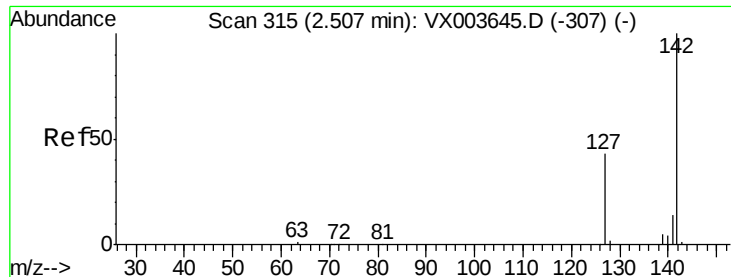
Ion Ratio Lower Upper

101 100

85 45.2 34.6 52.0

151 81.0 67.5 101.3

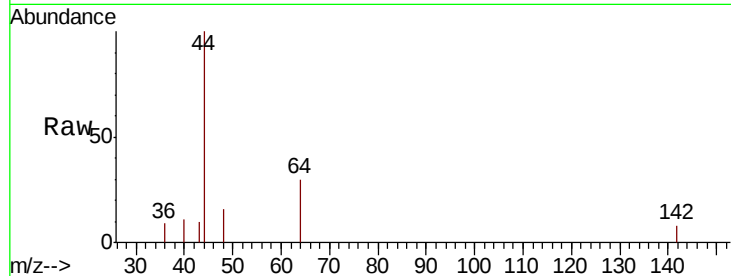




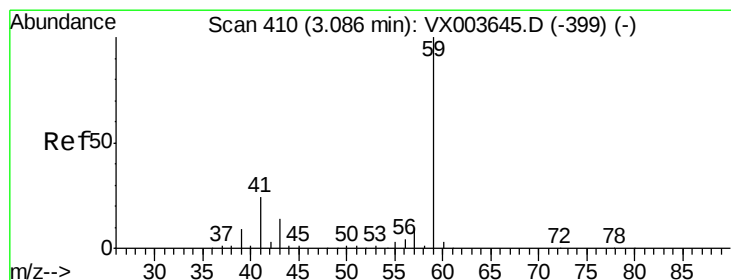
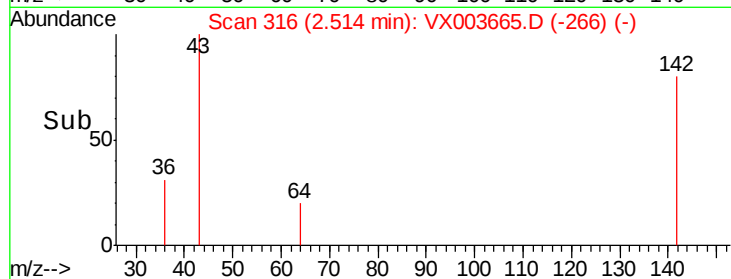
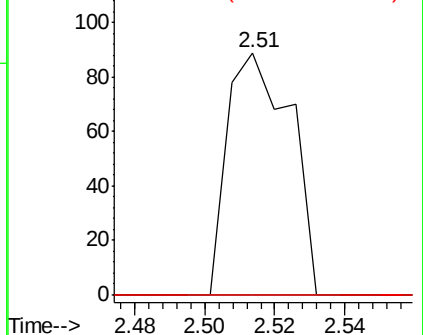
#10
Methyl Iodide
Concen: 3.244 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX003665.D
Acq: 25 Jul 2018 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE126D3-071718

Tgt Ion: 142 Resp: 112
Ion Ratio Lower Upper
142 100
127 0.0 34.0 51.0#
141 0.0 11.3 16.9#

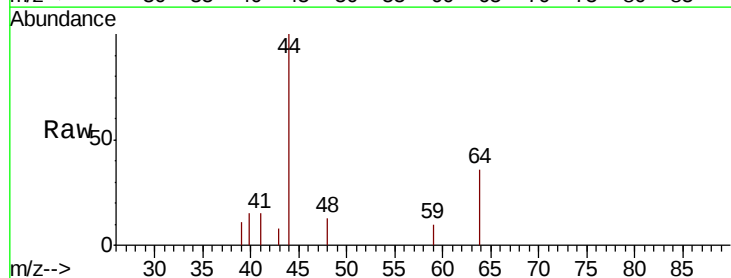


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

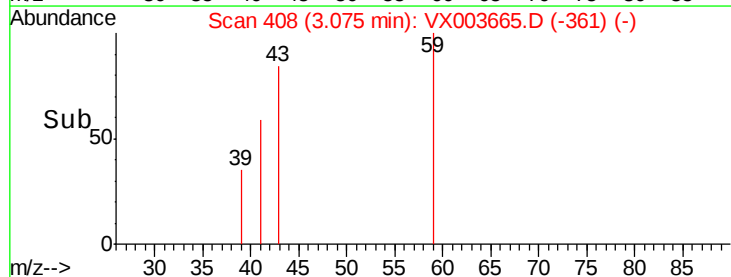
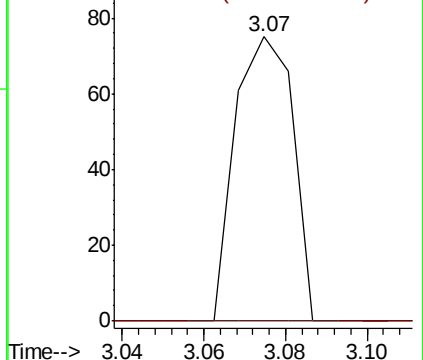


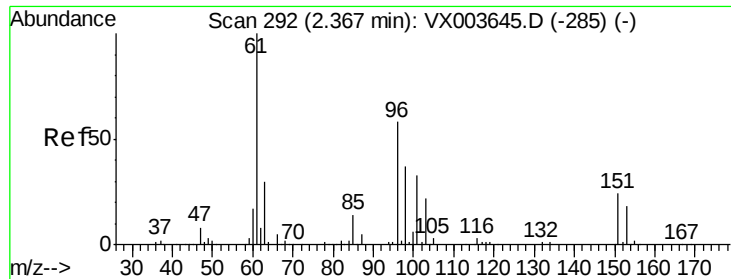
#11
Tert butyl alcohol
Concen: 0.231 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX003665.D
Acq: 25 Jul 2018 18:37

Tgt Ion: 59 Resp: 74
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

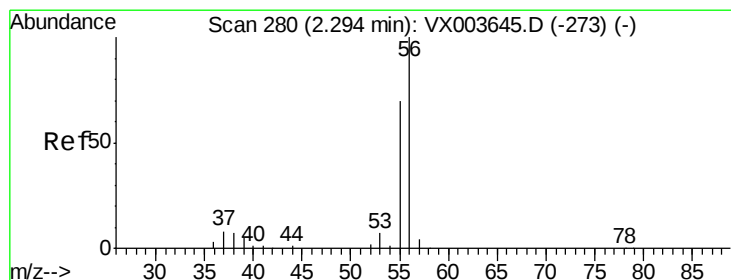
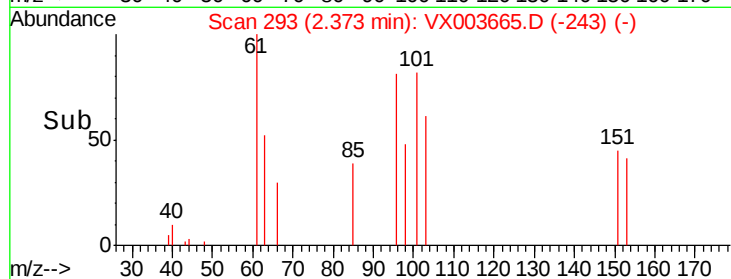
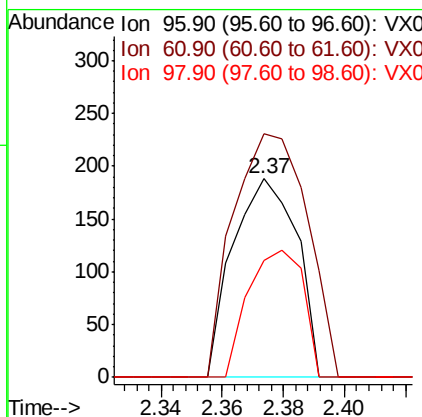
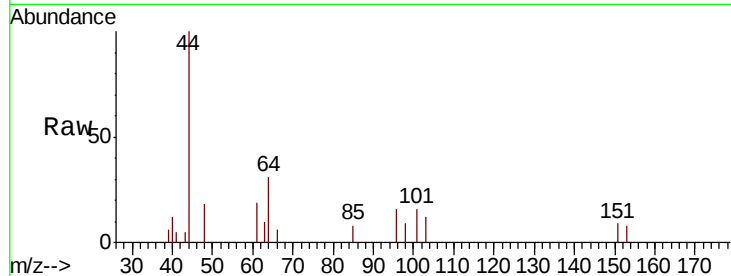




#12
 1,1-Dichloroethene
 Concen: 0.260 ug/l
 RT: 2.37 min Scan# 293
 Delta R.T. 0.01 min
 Lab File: VX003665.D
 Acq: 25 Jul 2018 18:37

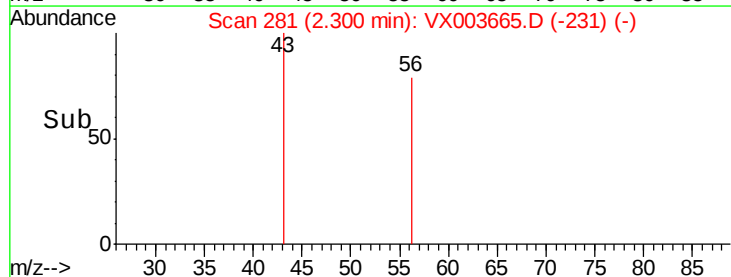
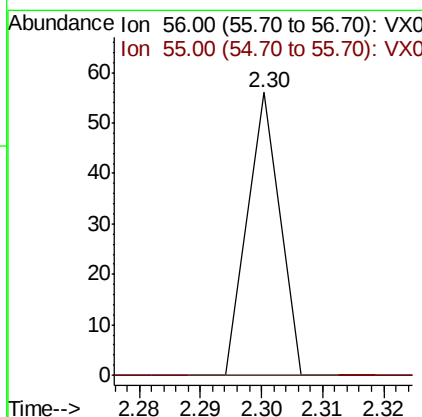
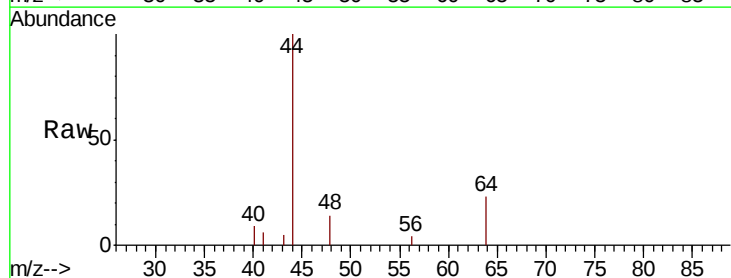
Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D3-071718

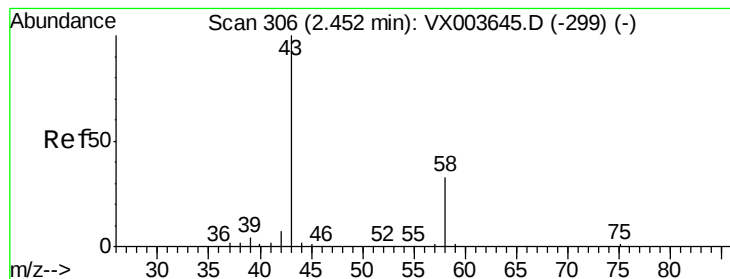
Tgt Ion: 96 Resp: 272
 Ion Ratio Lower Upper
 96 100
 61 122.9 138.8 208.2#
 98 59.0 51.4 77.2



#13
 Acrolein
 Concen: 4.154 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX003665.D
 Acq: 25 Jul 2018 18:37

Tgt Ion: 56 Resp: 20
 Ion Ratio Lower Upper
 56 100
 55 0.0 55.4 83.2#





#16

Acetone

Concen: 5.406 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

Instrument :

MSVOA_X

ClientSampleId :

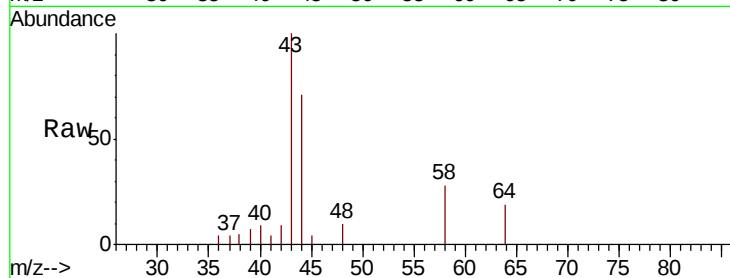
RE126D3-071718

Tgt Ion: 43 Resp: 3398

Ion Ratio Lower Upper

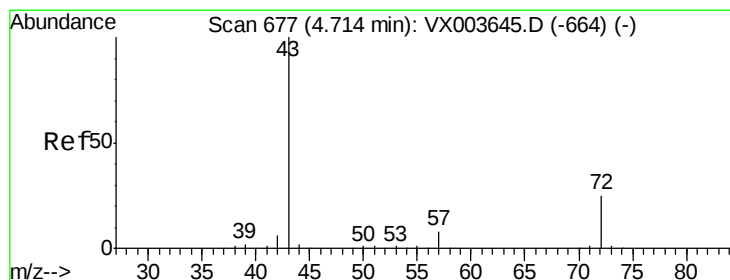
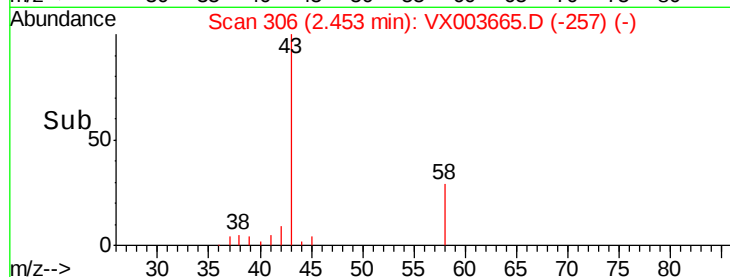
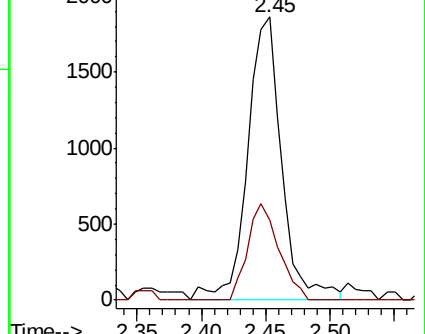
43 100

58 28.3 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: 0.395 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX003665.D

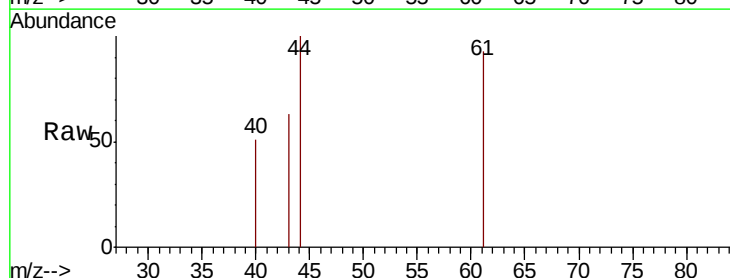
Acq: 25 Jul 2018 18:37

Tgt Ion: 43 Resp: 384

Ion Ratio Lower Upper

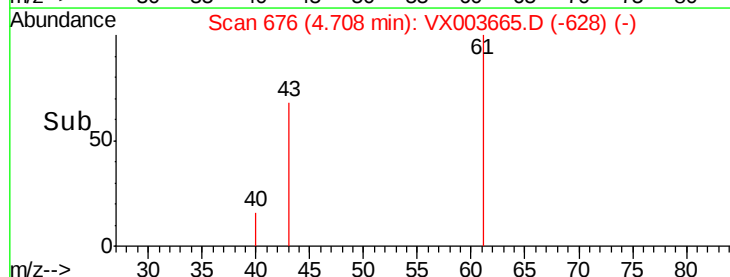
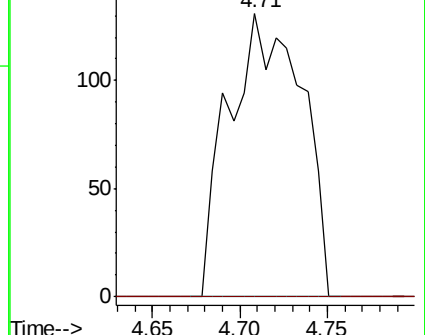
43 100

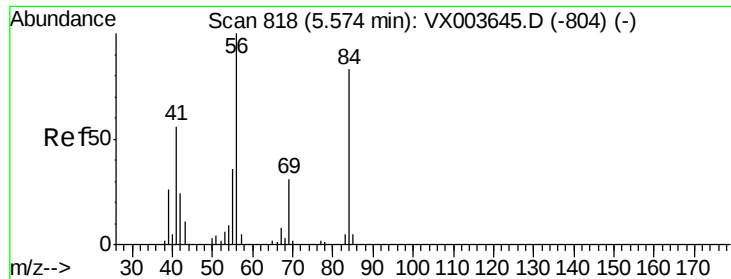
72 0.0 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

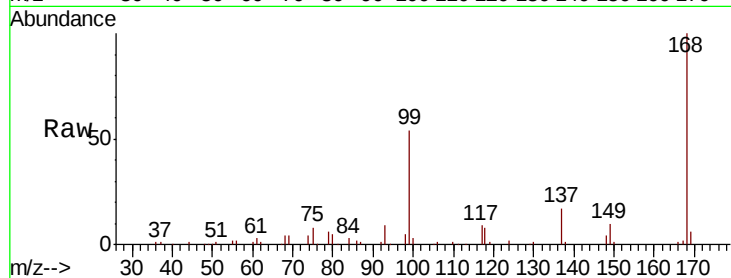




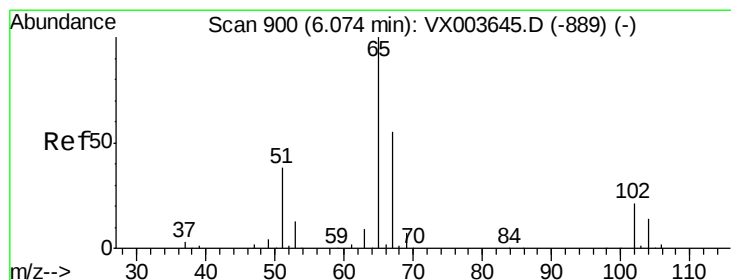
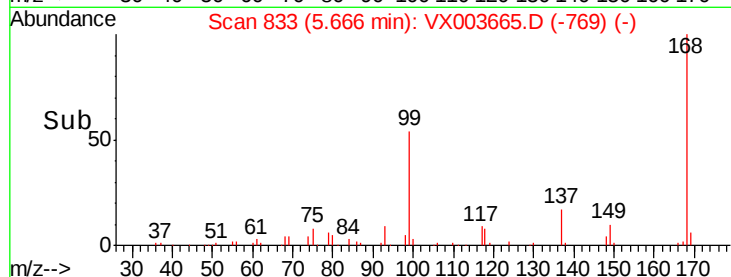
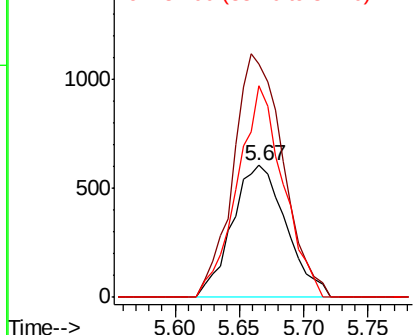
#31
Cyclohexane
Concen: 0.976 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX003665.D
Acq: 25 Jul 2018 18:37

Instrument :
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Tgt Ion: 56 Resp: 1755
Ion Ratio Lower Upper
56 100
69 176.4 25.0 37.6#
84 160.2 66.5 99.7#

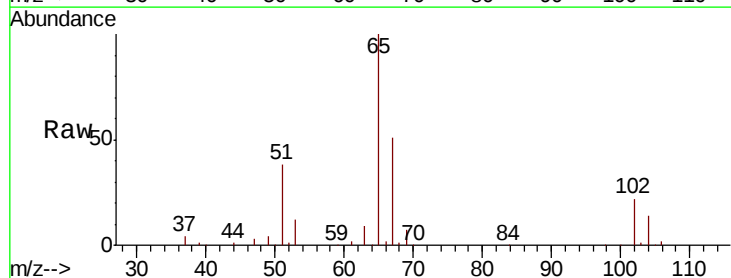


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

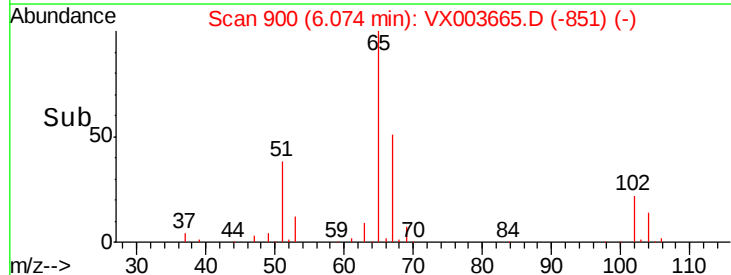
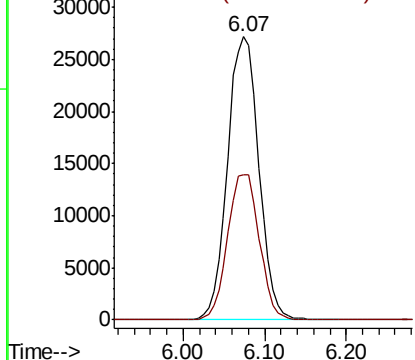


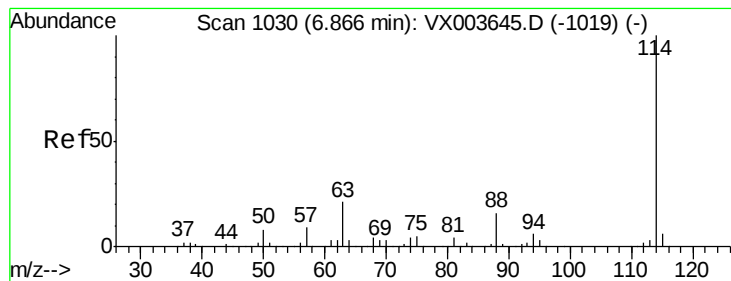
#33
1,2-Dichloroethane-d4
Concen: 53.617 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX003665.D
Acq: 25 Jul 2018 18:37

Tgt Ion: 65 Resp: 71741
Ion Ratio Lower Upper
65 100
67 52.3 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: VX003665.D

Acq: 25 Jul 2018 18:37

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-071718

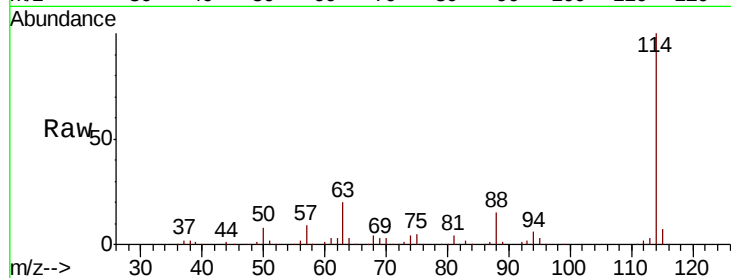
Tgt Ion:114 Resp: 140288

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.0

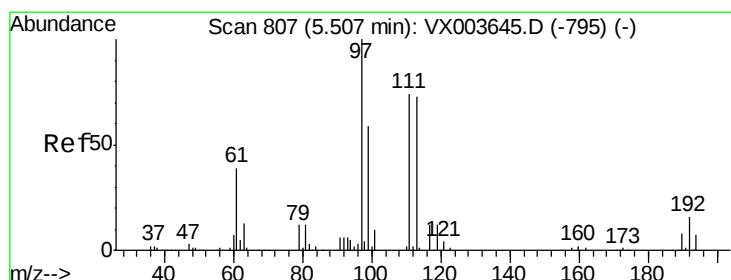
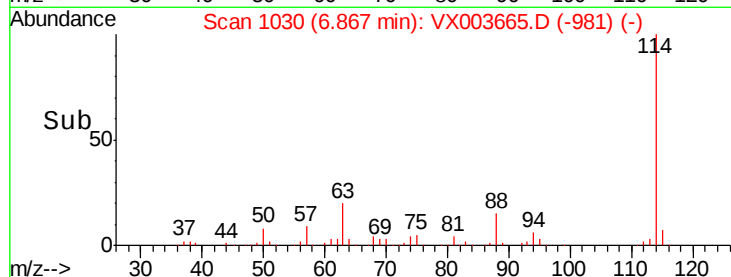
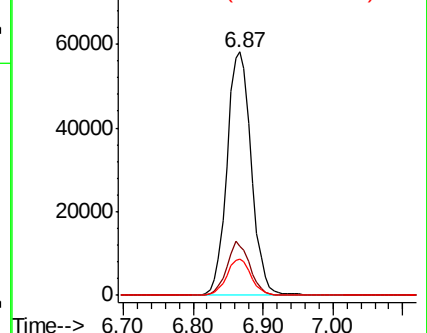
88 15.1 0.0 31.8



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: 49.400 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

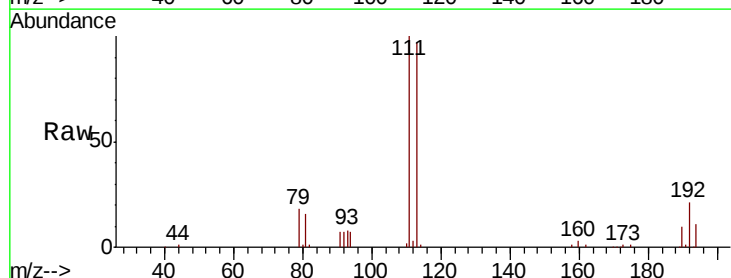
Tgt Ion:113 Resp: 56654

Ion Ratio Lower Upper

113 100

111 102.6 81.2 121.8

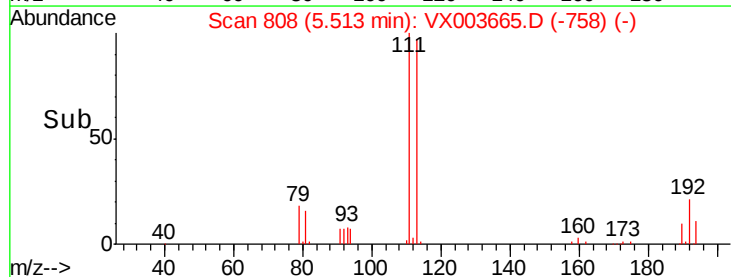
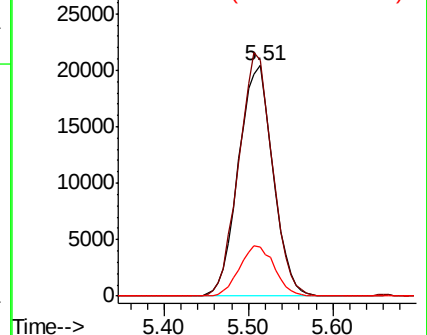
192 21.9 18.2 27.4

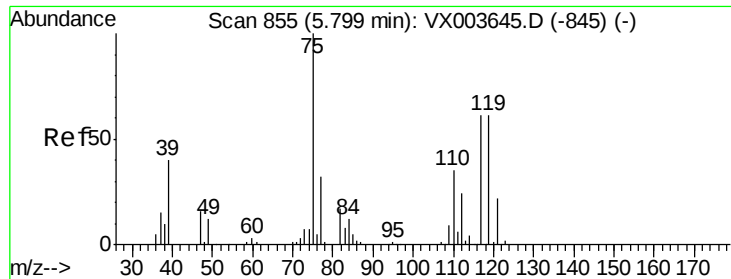


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

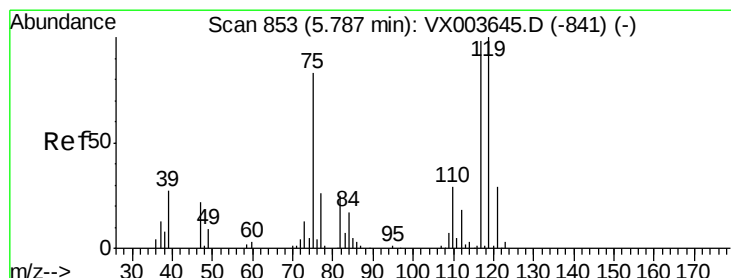
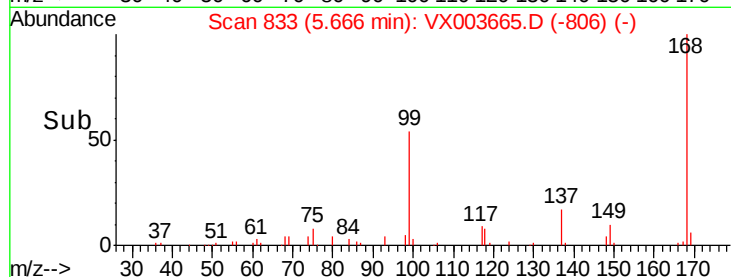
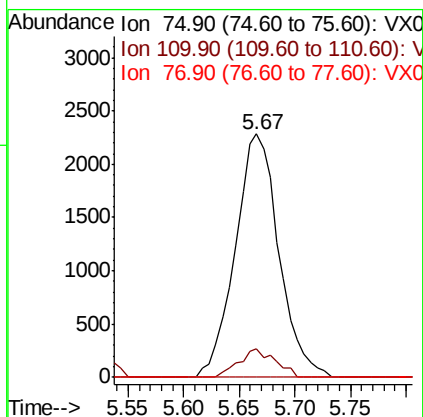
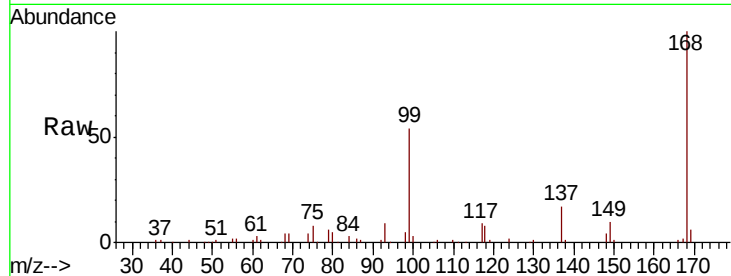




#36
 1,1-Dichloropropene
 Concen: 3.786 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003665.D
 Acq: 25 Jul 2018 18:37

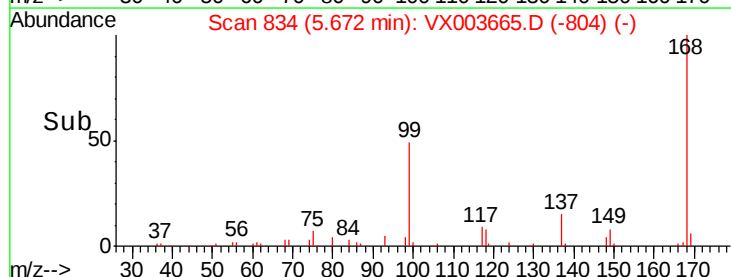
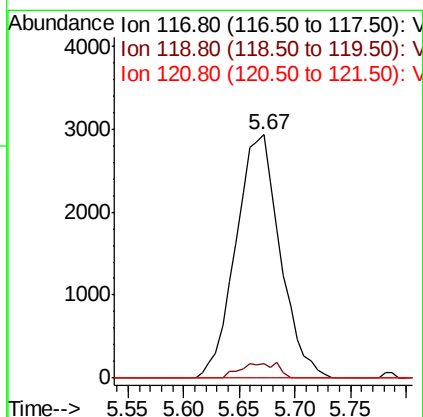
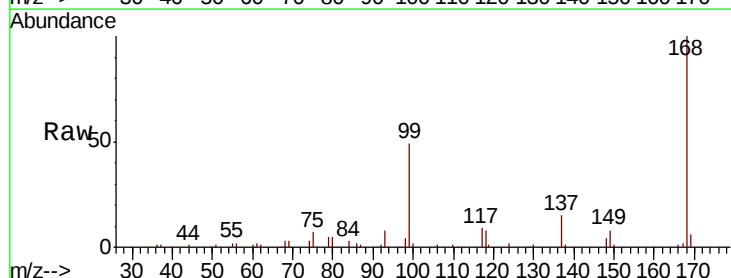
Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D3-071718

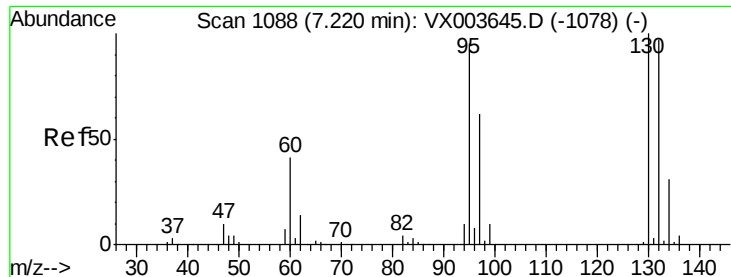
Tgt Ion: 75 Resp: 6208
 Ion Ratio Lower Upper
 75 100
 110 9.7 18.1 54.1#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.118 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX003665.D
 Acq: 25 Jul 2018 18:37

Tgt Ion: 117 Resp: 8089
 Ion Ratio Lower Upper
 117 100
 119 6.1 81.0 121.4#
 121 0.0 23.7 35.5#





#44

Trichloroethene

Concen: 3.023 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.00 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

Instrument :

MSVOA_X

ClientSampleId :

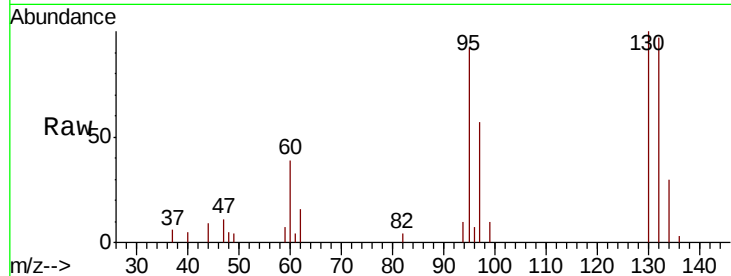
RE126D3-071718

Tgt Ion:130 Resp: 3933

Ion Ratio Lower Upper

130 100

95 92.0 0.0 190.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

2000

1500

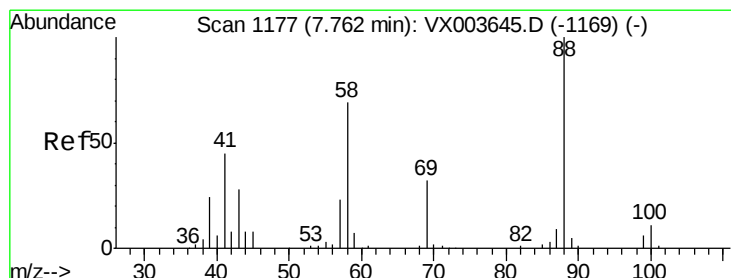
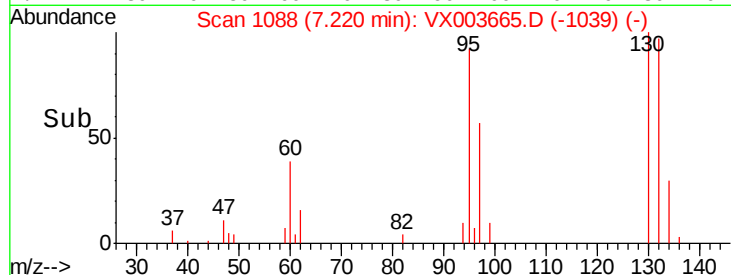
1000

500

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 1.228 ug/l

RT: 7.77 min Scan# 1178

Delta R.T. 0.01 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

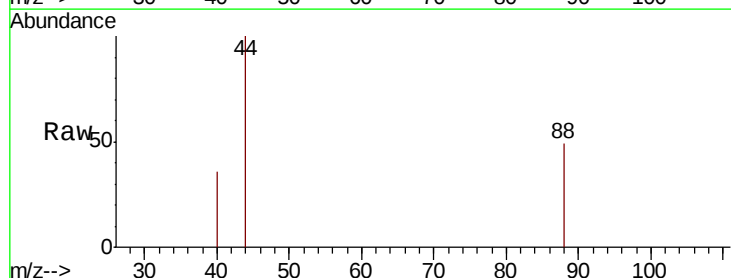
Tgt Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

43 0.0 25.8 38.6#

58 55.0 58.3 87.5#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

150

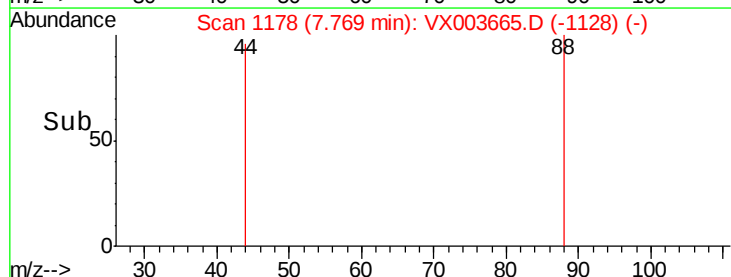
100

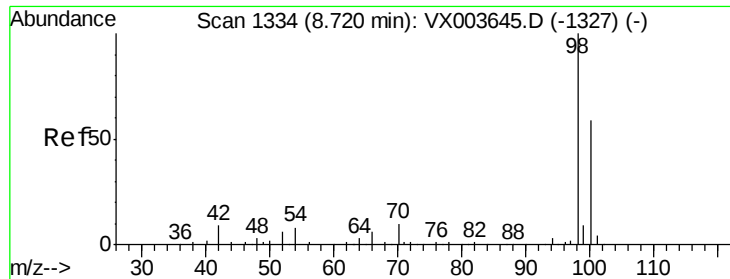
50

0

7.75 7.76 7.77 7.78

Time-->





#50

Toluene-d8

Concen: 53.054 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

Instrument :

MSVOA_X

ClientSampleId :

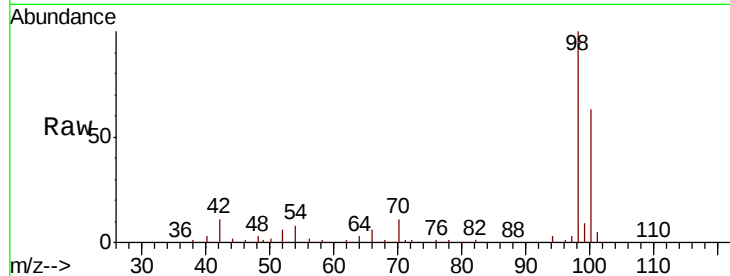
RE126D3-071718

Tgt Ion: 98 Resp: 232202

Ion Ratio Lower Upper

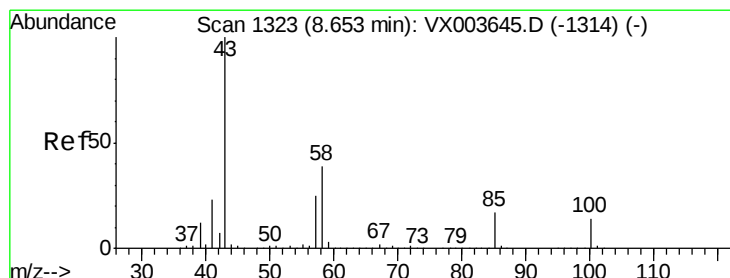
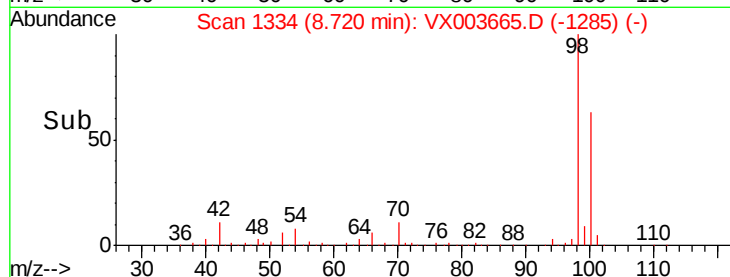
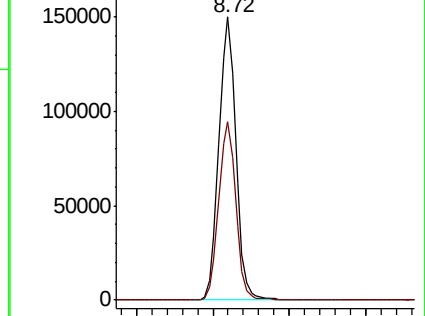
98 100

100 63.2 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.529 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.07 min

Lab File: VX003665.D

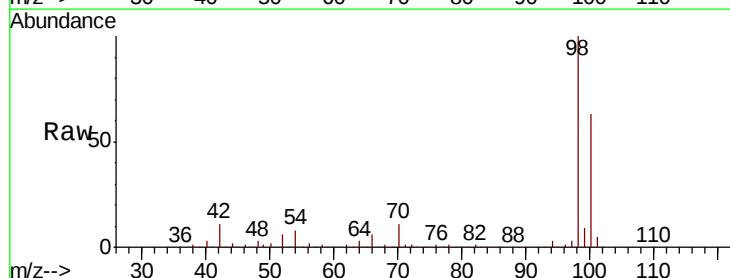
Acq: 25 Jul 2018 18:37

Tgt Ion: 43 Resp: 1027

Ion Ratio Lower Upper

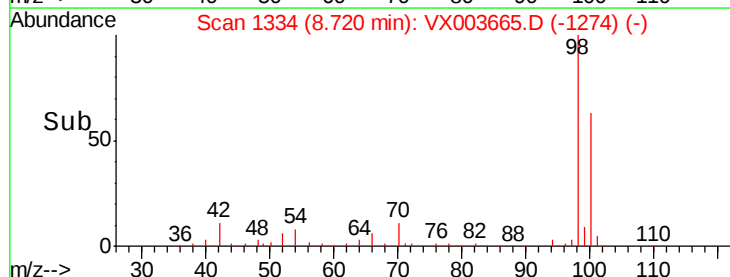
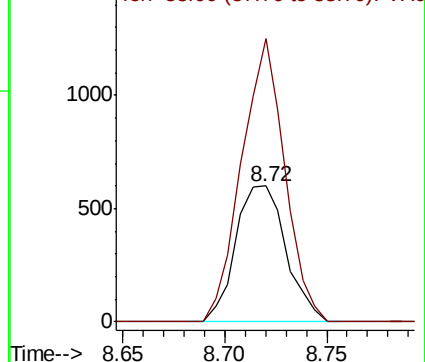
43 100

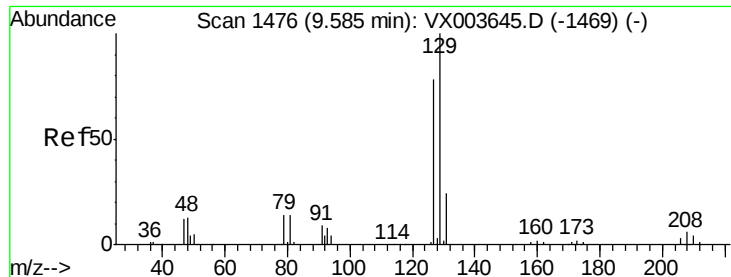
58 178.9 31.5 47.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

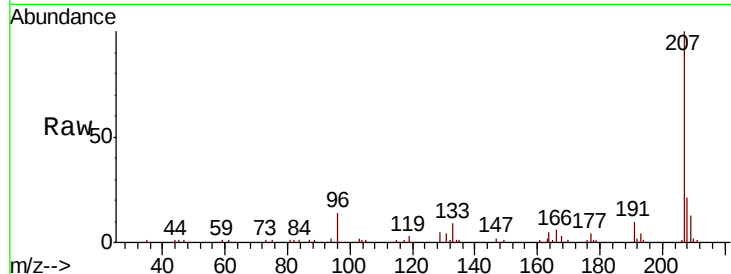




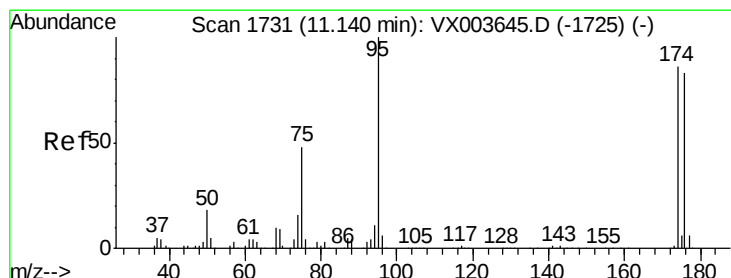
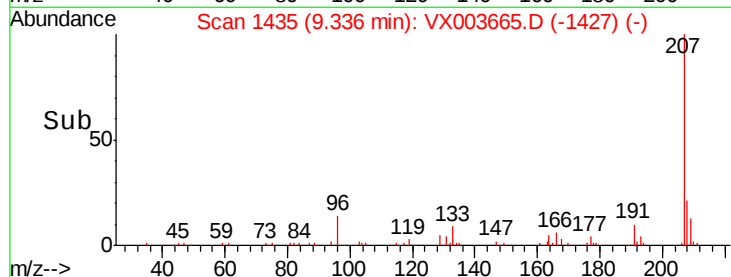
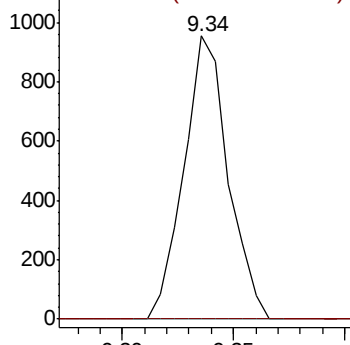
#60
 Dibromochloromethane
 Concen: 1.127 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. -0.25 min
 Lab File: VX003665.D
 Acq: 25 Jul 2018 18:37

Instrument :
 MSVOA_X
 ClientSampleId :
 RE126D3-071718

Tgt Ion: 129 Resp: 1318
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.7 116.1#

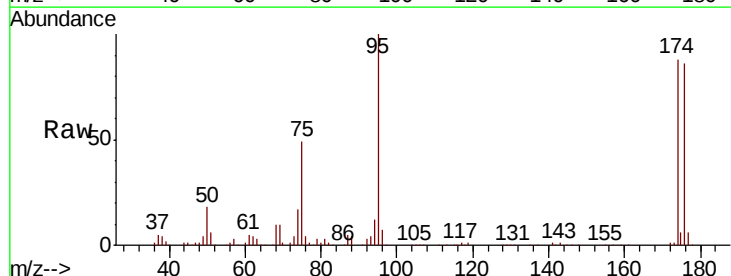


Abundance Ion 128.80 (128.50 to 129.50): V
 Ion 126.80 (126.50 to 127.50): V

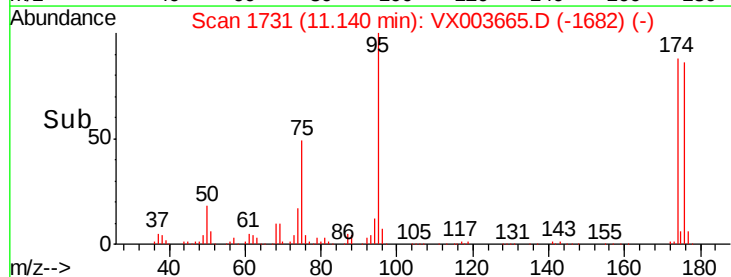
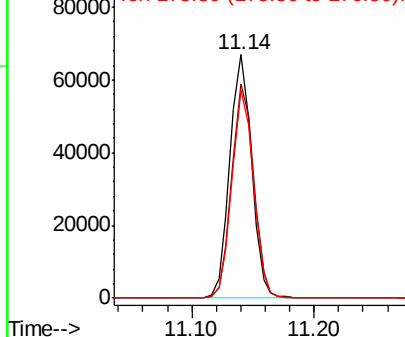


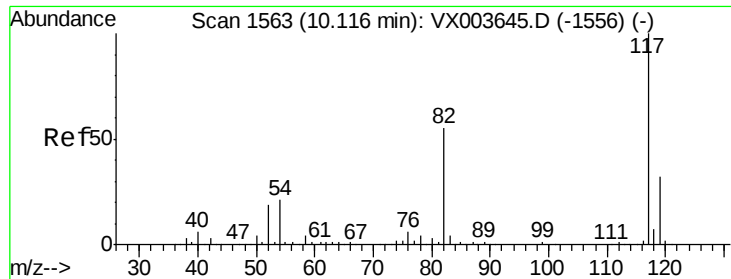
#62
 4-Bromofluorobenzene
 Concen: 51.493 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.00 min
 Lab File: VX003665.D
 Acq: 25 Jul 2018 18:37

Tgt Ion: 95 Resp: 82201
 Ion Ratio Lower Upper
 95 100
 174 89.1 0.0 179.0
 176 85.3 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

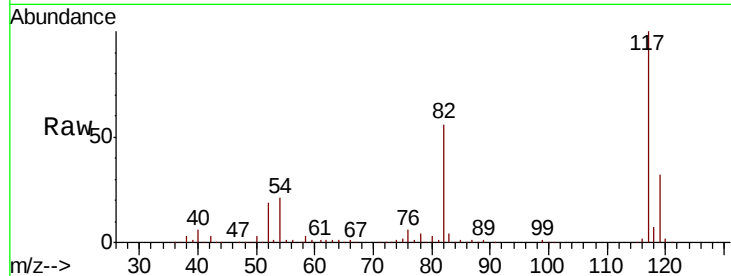




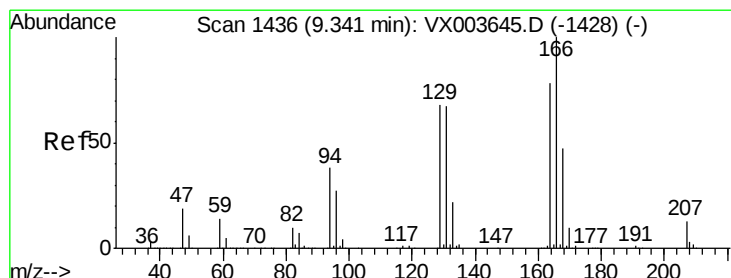
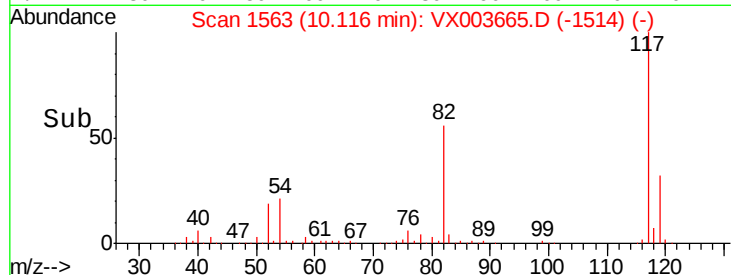
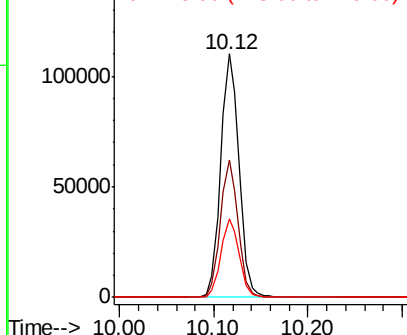
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003665.D
Acq: 25 Jul 2018 18:37

Instrument :
MSVOA_X
ClientSampleId :
RE126D3-071718

Tgt Ion:117 Resp: 148350
Ion Ratio Lower Upper
117 100
82 56.2 44.3 66.5
119 32.1 25.6 38.4

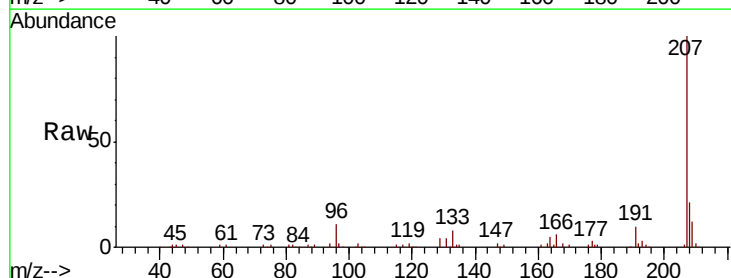


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

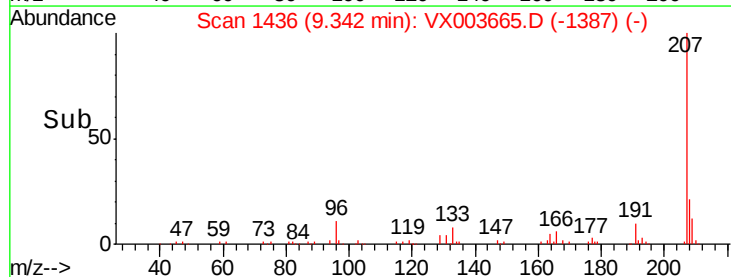
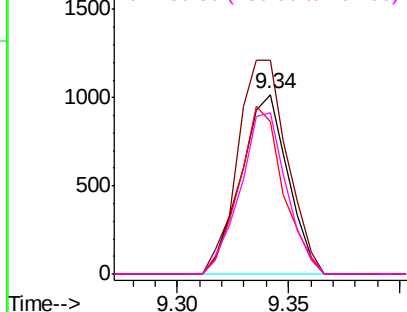


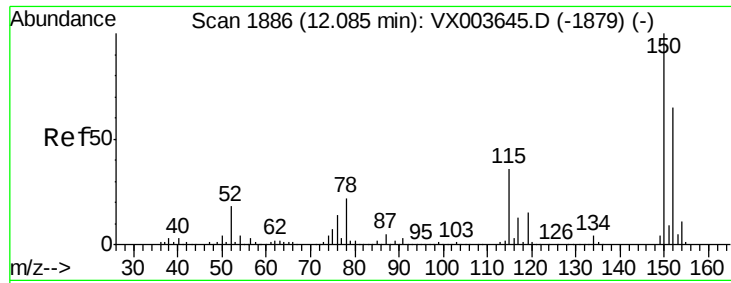
#64
Tetrachloroethene
Concen: 1.104 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.00 min
Lab File: VX003665.D
Acq: 25 Jul 2018 18:37

Tgt Ion:164 Resp: 1497
Ion Ratio Lower Upper
164 100
166 119.1 102.4 153.6
129 85.3 69.6 104.4
131 90.3 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: VX003665.D

Acq: 25 Jul 2018 18:37

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-071718

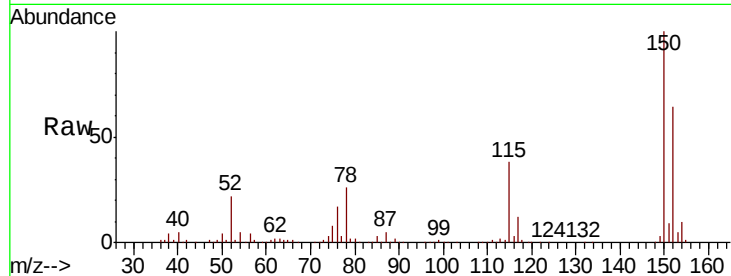
Tgt Ion:152 Resp: 73136

Ion Ratio Lower Upper

152 100

115 56.3 40.0 119.9

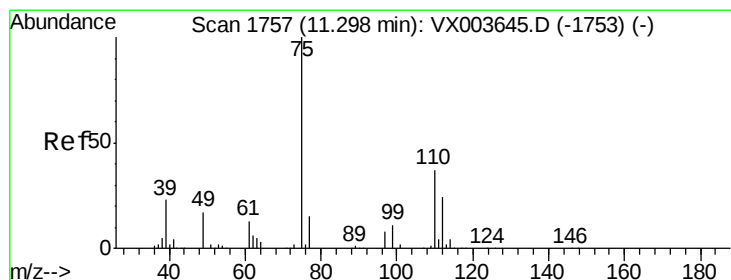
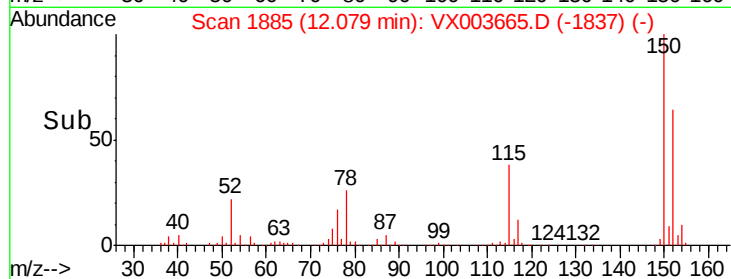
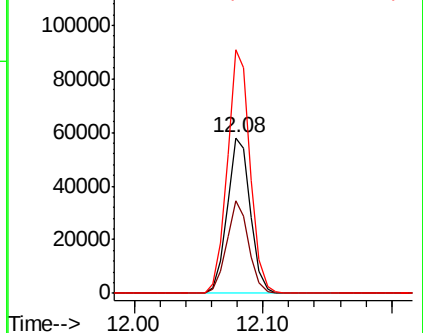
150 154.5 0.0 348.4



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: 26.910 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003665.D

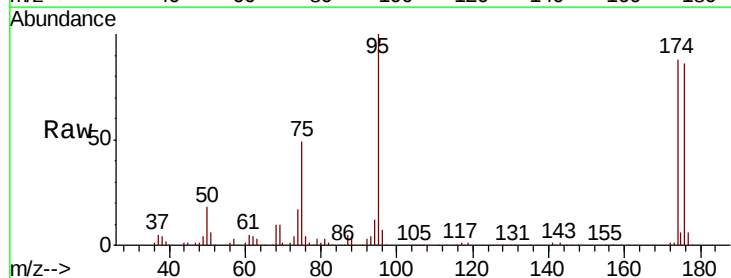
Acq: 25 Jul 2018 18:37

Tgt Ion: 75 Resp: 41280

Ion Ratio Lower Upper

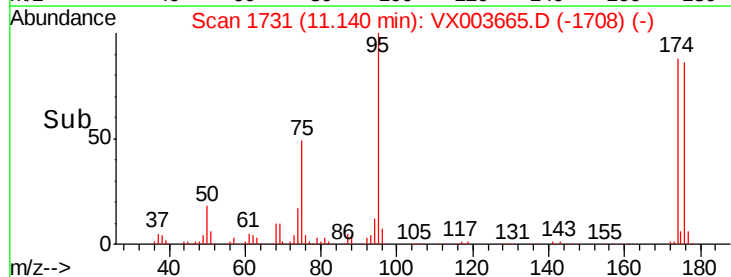
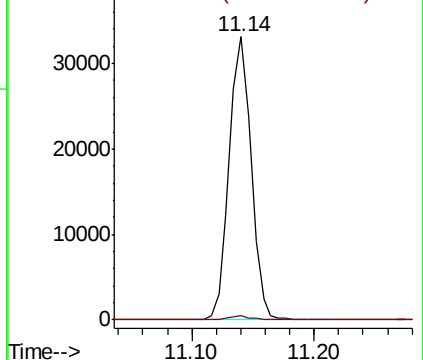
75 100

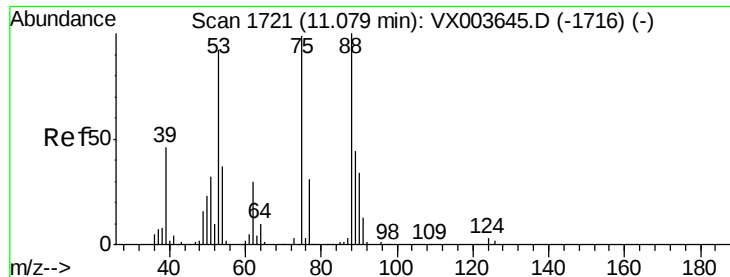
77 1.3 21.6 64.6#



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: 83.374 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

Instrument :

MSVOA_X

ClientSampleId :

RE126D3-071718

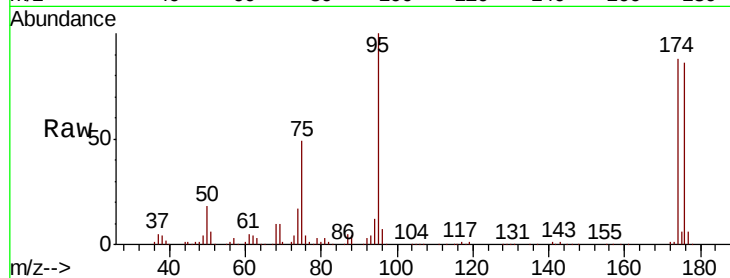
Tgt Ion: 75 Resp: 41280

Ion Ratio Lower Upper

75 100

53 0.0 77.8 116.8#

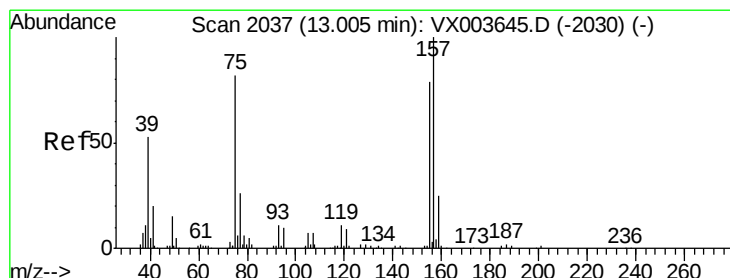
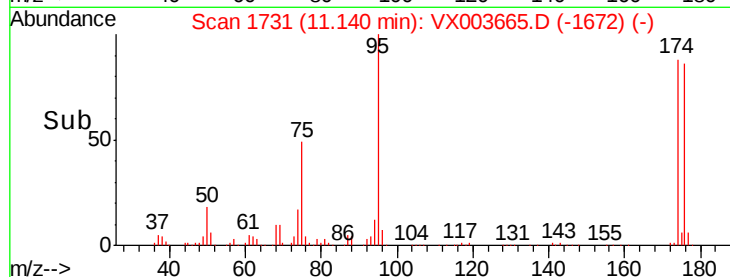
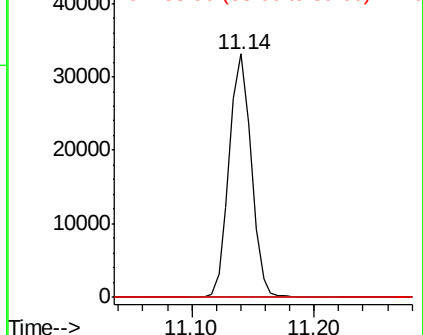
89 0.0 36.6 54.8#



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: 0.375 ug/l

RT: 12.81 min Scan# 2005

Delta R.T. -0.19 min

Lab File: VX003665.D

Acq: 25 Jul 2018 18:37

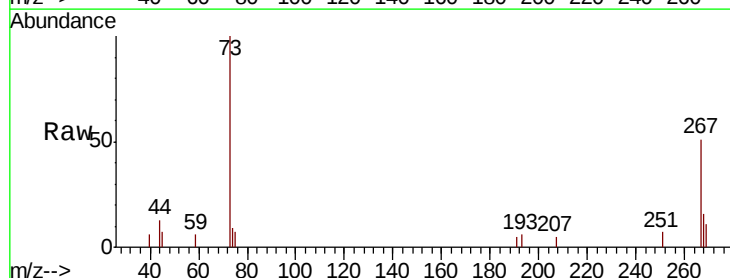
Tgt Ion: 75 Resp: 144

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

