

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002872.D
 Acq On : 25 Jun 2018 21:15
 Operator : JC/MD
 Sample : J3592-06DL 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 05:26:56 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	244329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	335494	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	309431	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	171043	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	161713	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
35) Dibromofluoromethane	5.51	113	125845	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
50) Toluene-d8	8.72	98	473265	48.78	ug/l	0.00
Spiked Amount			Recovery	=	97.56%	
62) 4-Bromofluorobenzene	11.14	95	163024	43.57	ug/l	0.00
Spiked Amount			Recovery	=	87.14%	

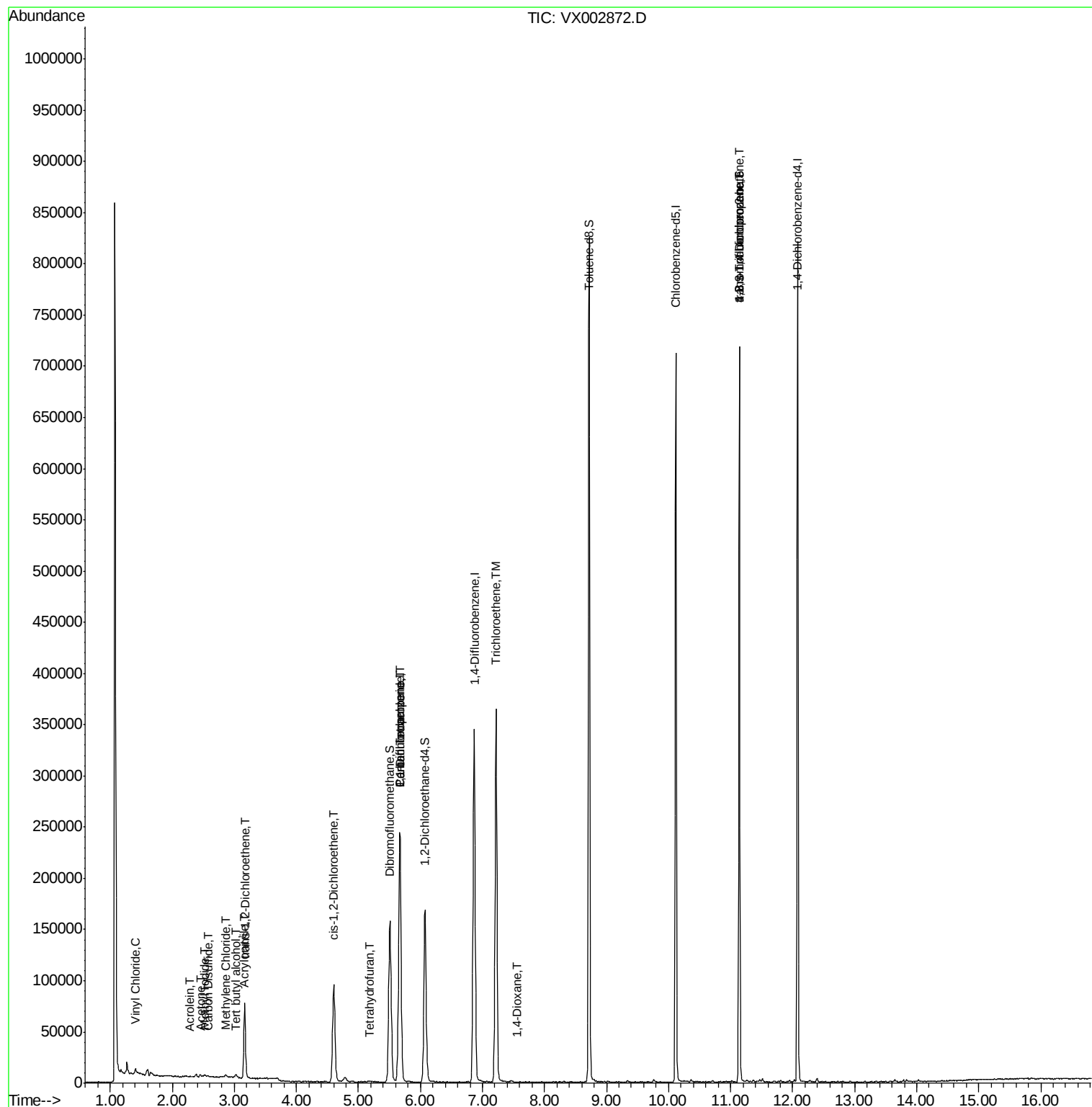
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	165	Below Cal		90
3) Chloromethane	1.33	50	597	Below Cal	#	69
4) Vinyl Chloride	1.40	62	1754	0.63	ug/l #	1
5) Bromomethane	1.66	94	2389	Below Cal		88
6) Chloroethane	1.70	64	69	Below Cal	#	43
10) Methyl Iodide	2.52	142	3438	7.32	ug/l	98
11) Tert butyl alcohol	3.03	59	1911	2.84	ug/l #	75
13) Acrolein	2.29	56	360	5.18	ug/l #	47
15) Acrylonitrile	3.15	53	460	0.32	ug/l #	55
16) Acetone	2.45	43	2007	1.44	ug/l #	81
17) Carbon Disulfide	2.57	76	1833	0.29	ug/l	96
20) Methylene Chloride	2.86	84	1104	0.41	ug/l #	81
21) trans-1,2-Dichloroethene	3.17	96	29057	11.07	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	57320	19.48	ug/l	89
29) Tetrahydrofuran	5.17	42	845	0.63	ug/l #	61
36) 1,1-Dichloropropene	5.67	75	16370	4.45	ug/l #	51
38) Carbon Tetrachloride	5.67	117	22039	5.46	ug/l #	17
44) Trichloroethene	7.22	130	141784	44.49	ug/l	98
49) 1,4-Dioxane	7.56	88	20	0.30	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	86482	27.91	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	86482	78.91	ug/l #	7

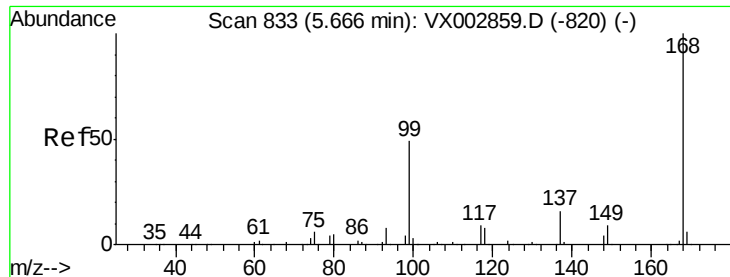
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :

MSVOA_X

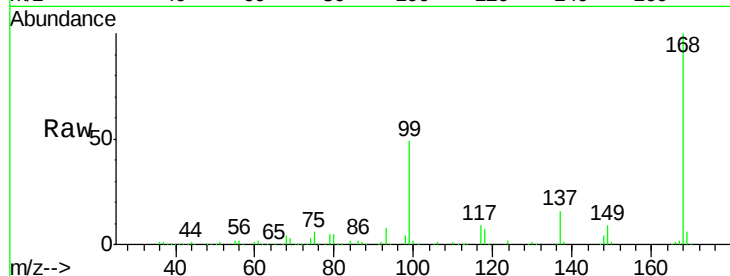
ClientSampled :

Tot Ion:168 Resp: 244329

Ion Ratio Lower Upper

168 100

99 48.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

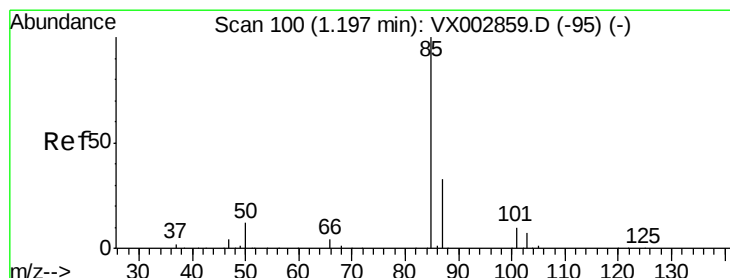
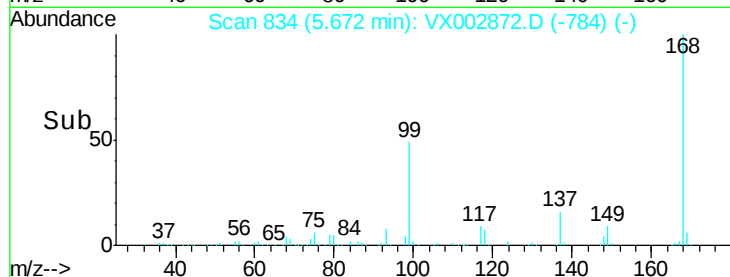
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002872.D

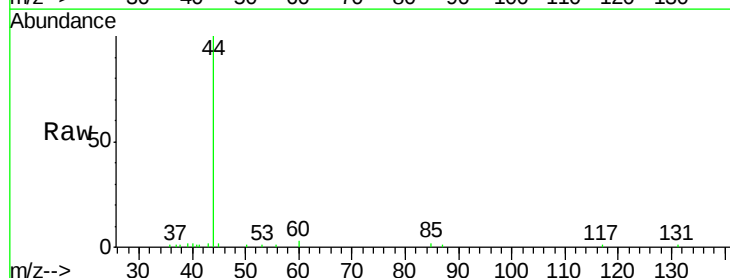
Acq: 25 Jun 2018 21:15

Tgt Ion: 85 Resp: 165

Ion Ratio Lower Upper

85 100

87 37.7 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

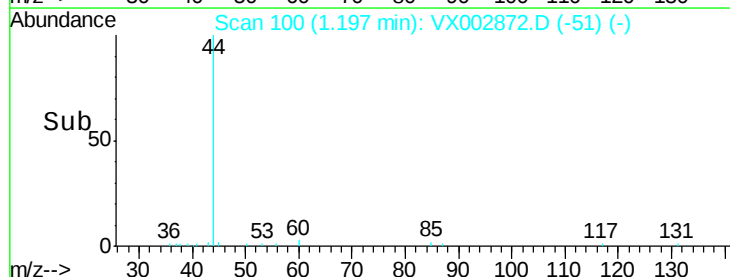
150

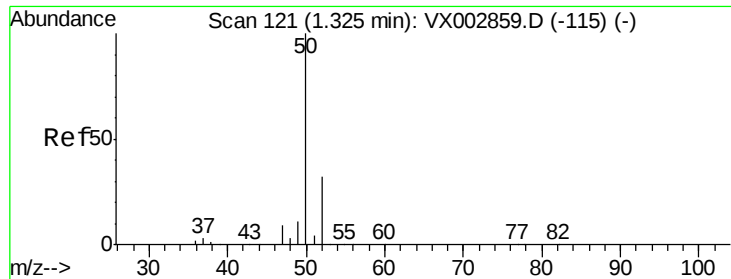
100

50

0

Time--> 1.16 1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :

MSVOA_X

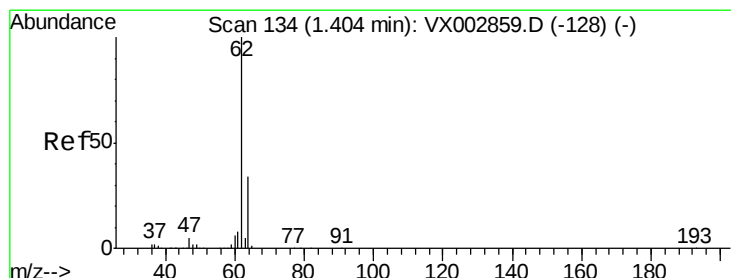
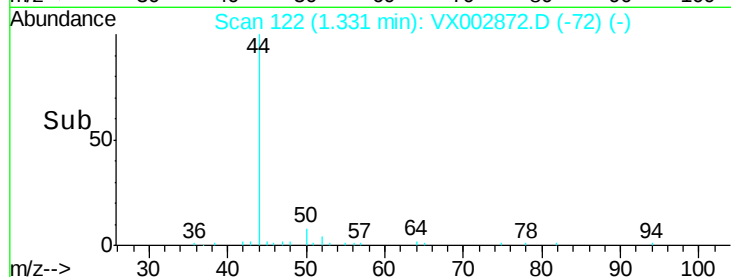
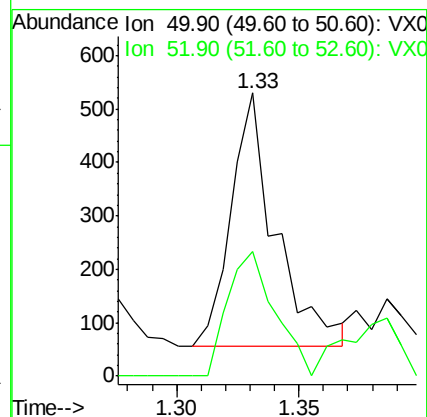
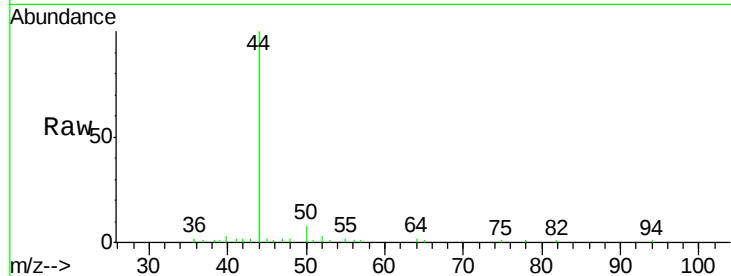
ClientSampled :

Tot Ion: 50 Resp: 597

Ion Ratio Lower Upper

50 100

52 49.4 25.7 38.5#



#4

Vinyl Chloride

Concen: 0.63 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX002872.D

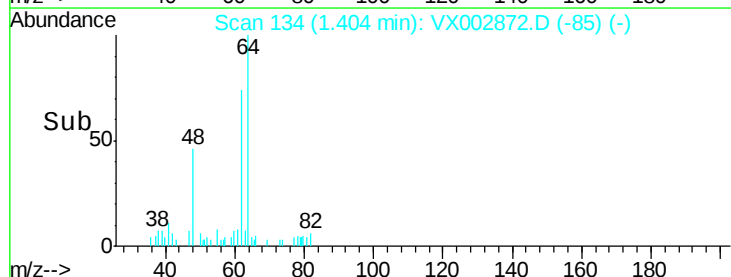
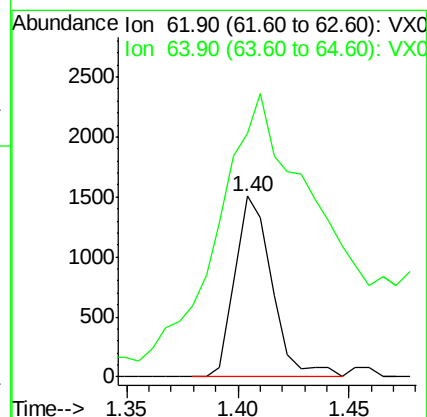
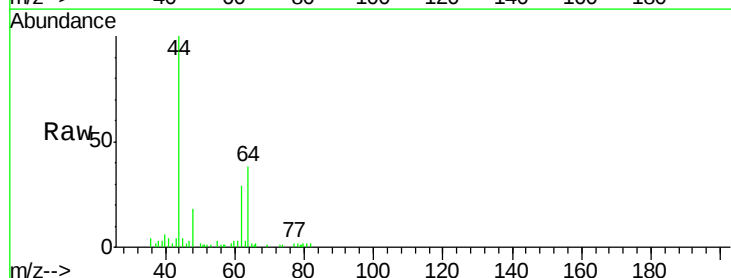
Acq: 25 Jun 2018 21:15

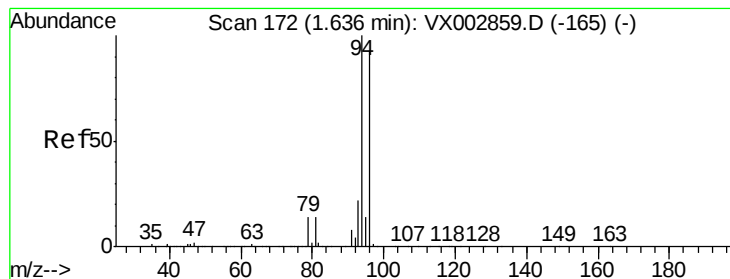
Tgt Ion: 62 Resp: 1754

Ion Ratio Lower Upper

62 100

64 95.7 25.4 38.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

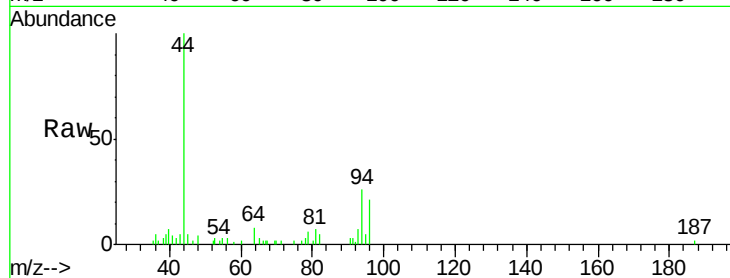
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 94 Resp: 2389

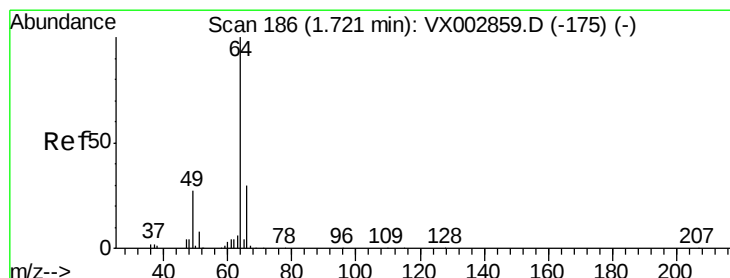
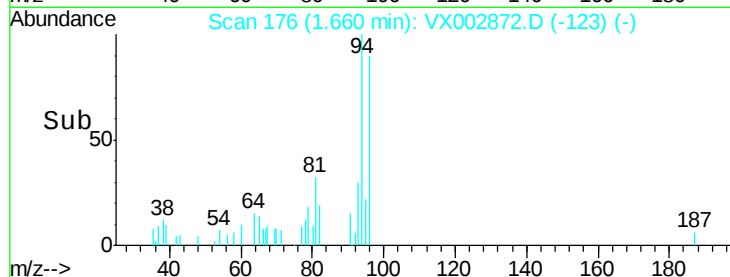
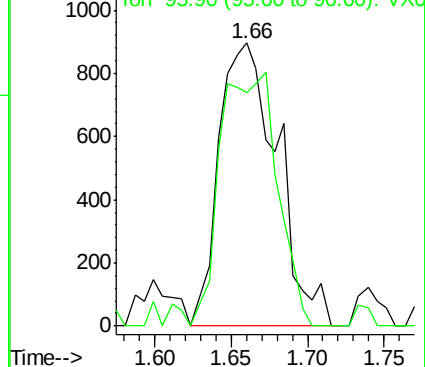
Ion Ratio Lower Upper

94 100

96 82.3 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0
Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 182

Delta R.T. -0.02 min

Lab File: VX002872.D

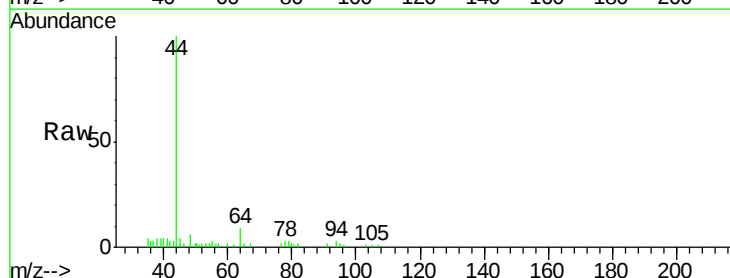
Acq: 25 Jun 2018 21:15

Tgt Ion: 64 Resp: 69

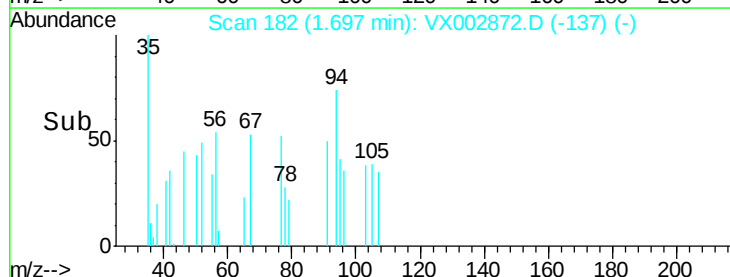
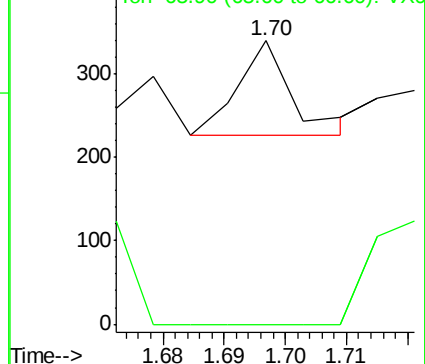
Ion Ratio Lower Upper

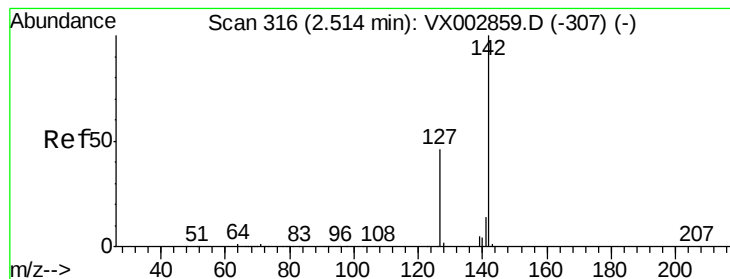
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0
Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 7.32 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :
MSVOA_X
ClientSampleId :

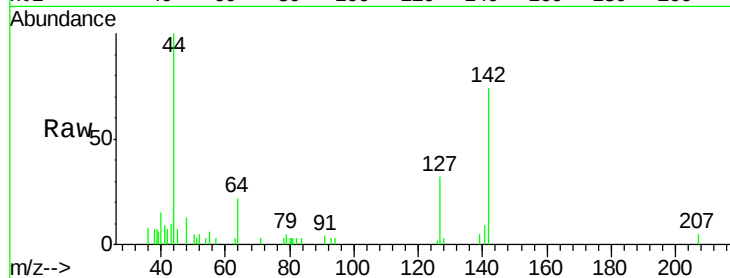
Tot Ion:142 Resp: 3438

Ion Ratio Lower Upper

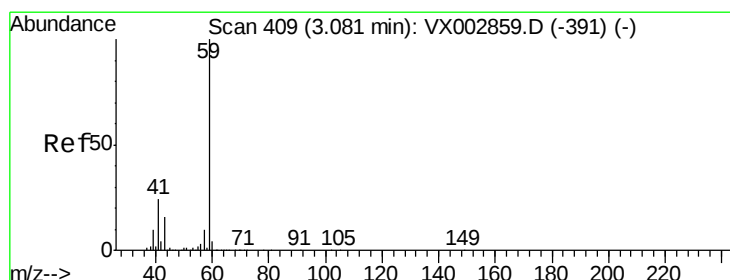
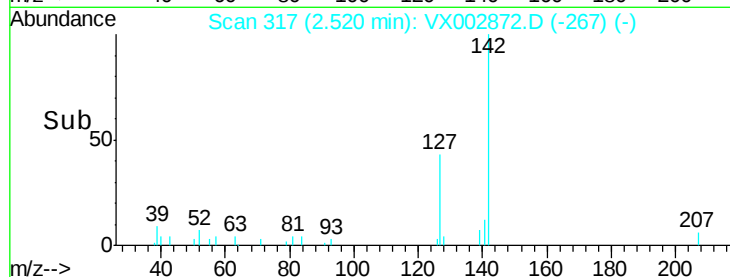
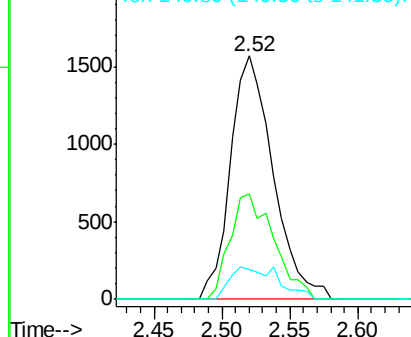
142 100

127 44.5 36.6 55.0

141 15.2 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: 2.84 ug/l

RT: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX002872.D

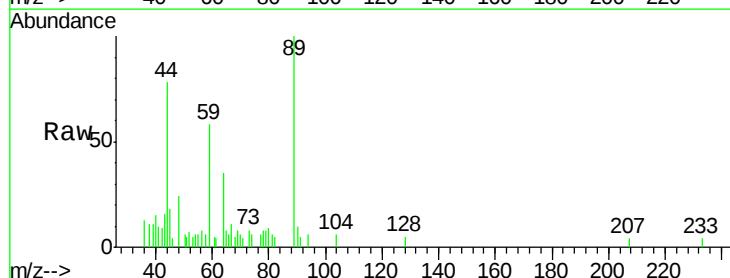
Acq: 25 Jun 2018 21:15

Tgt Ion: 59 Resp: 1911

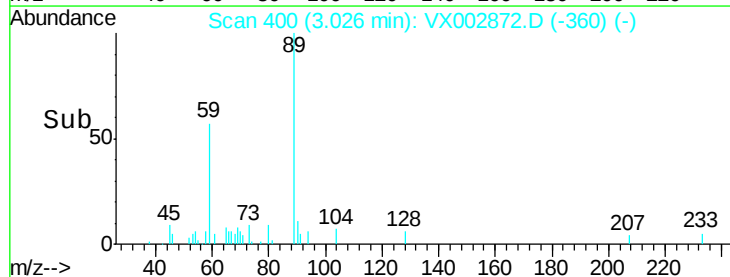
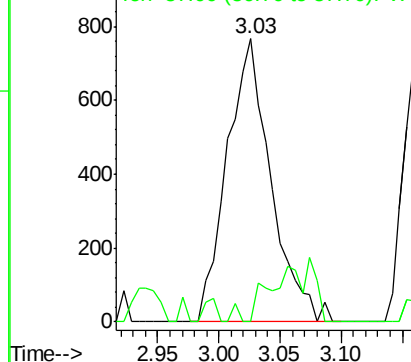
Ion Ratio Lower Upper

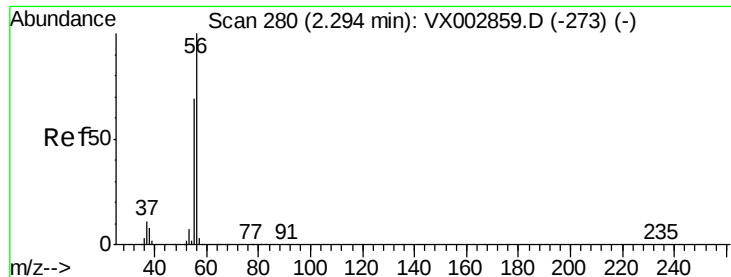
59 100

57 1.0 8.2 12.2#



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





#13

Acrolein

Concen: 5.18 ug/l

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :

MSVOA_X

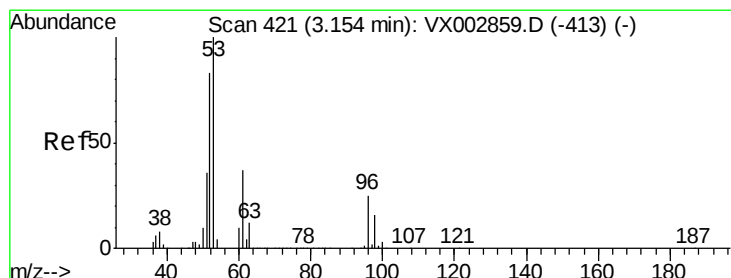
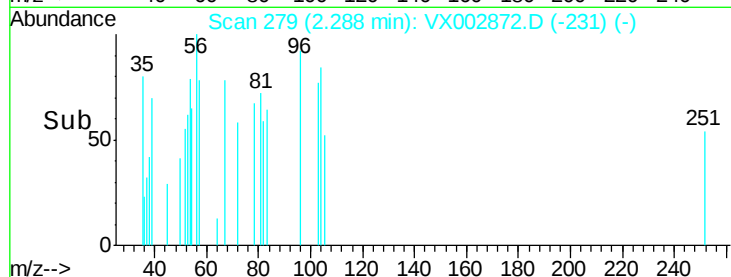
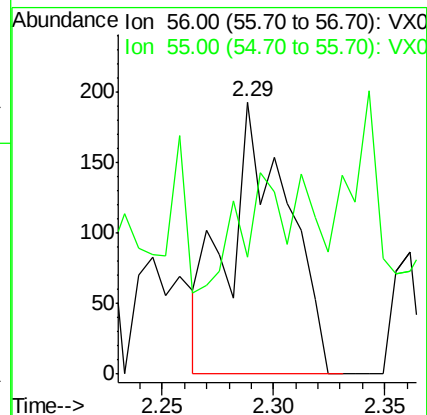
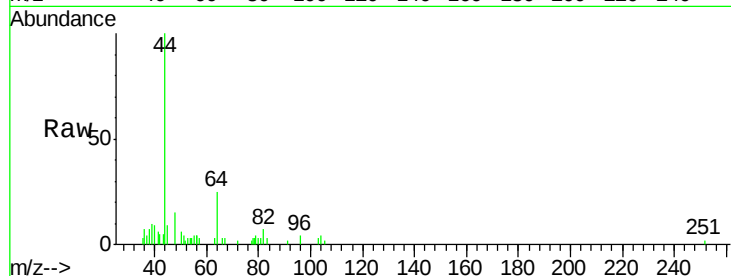
ClientSampleId :

Tot Ion: 56 Resp: 360

Ion Ratio Lower Upper

56 100

55 26.9 57.0 85.4#



#15

Acrylonitrile

Concen: 0.32 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

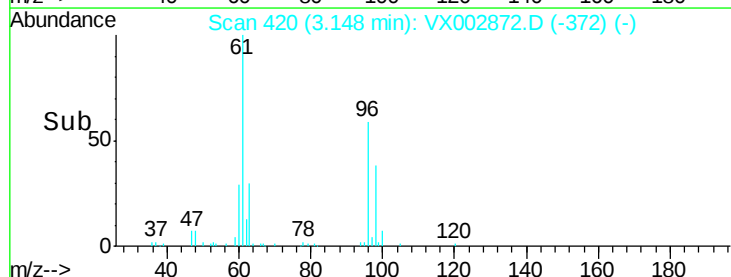
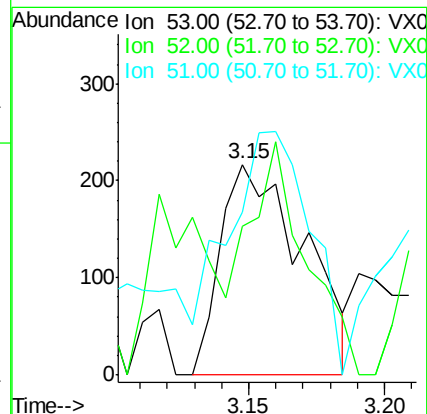
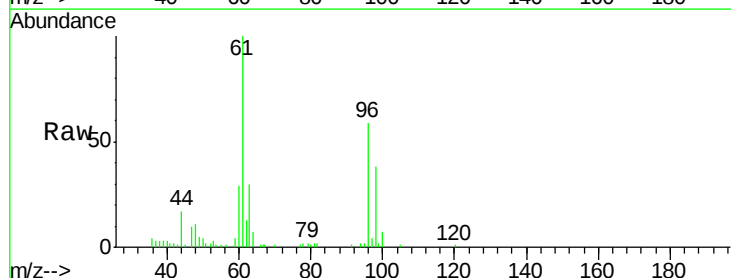
Tgt Ion: 53 Resp: 460

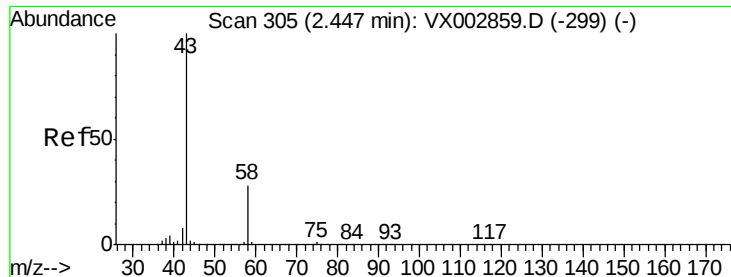
Ion Ratio Lower Upper

53 100

52 76.3 66.7 100.1

51 114.1 29.9 44.9#





#16

Acetone

Concen: 1.44 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :

MSVOA_X

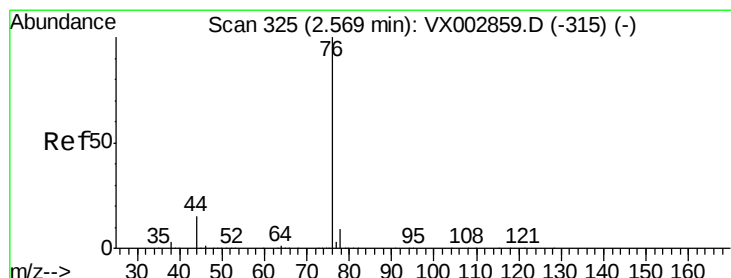
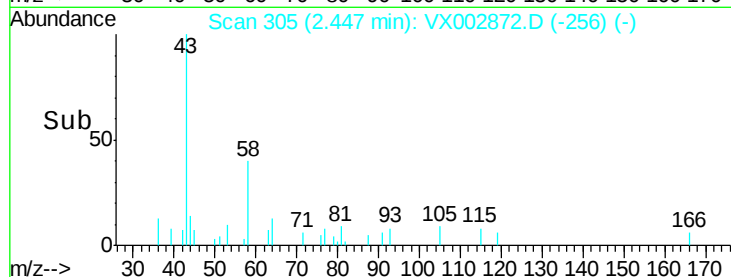
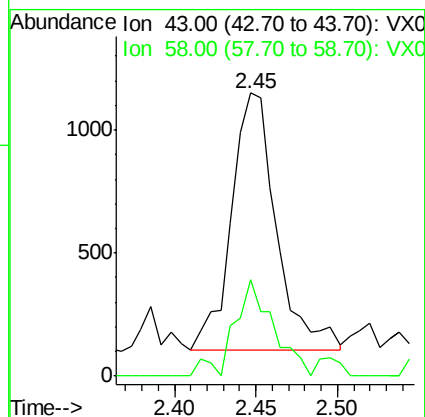
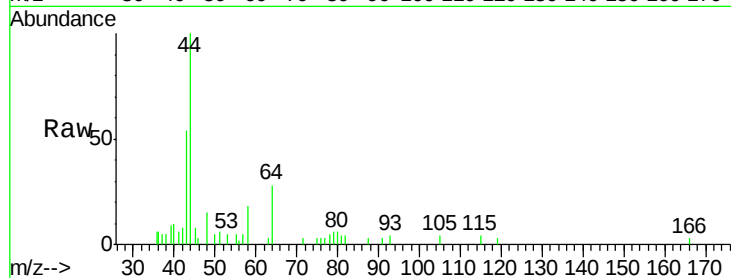
ClientSampled :

Tot Ion: 43 Resp: 2007

Ion Ratio Lower Upper

43 100

58 37.5 22.1 33.1#



#17

Carbon Disulfide

Concen: 0.29 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002872.D

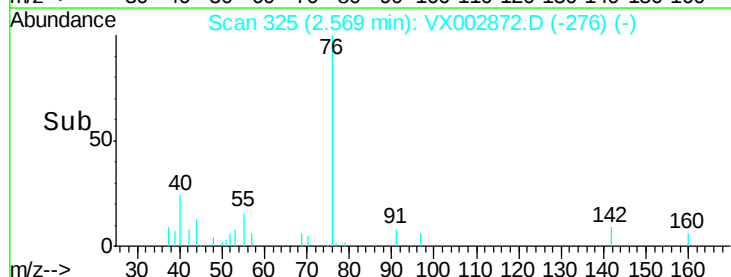
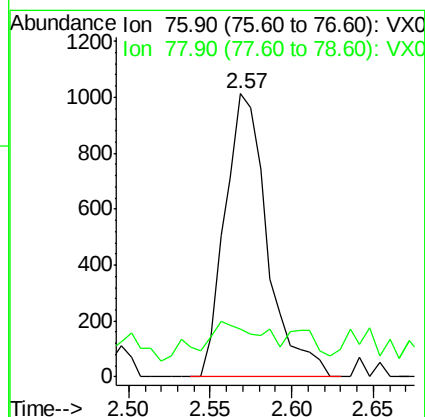
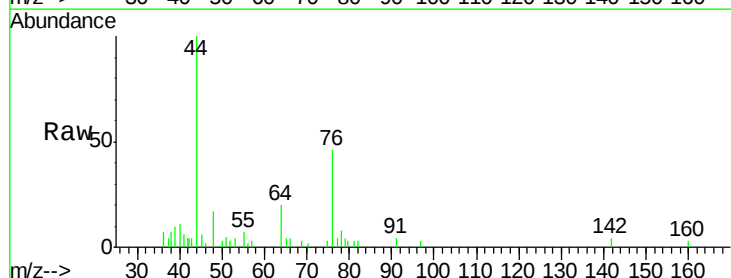
Acq: 25 Jun 2018 21:15

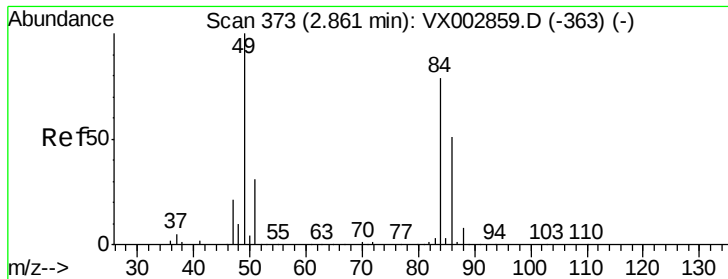
Tgt Ion: 76 Resp: 1833

Ion Ratio Lower Upper

76 100

78 7.1 6.9 10.3

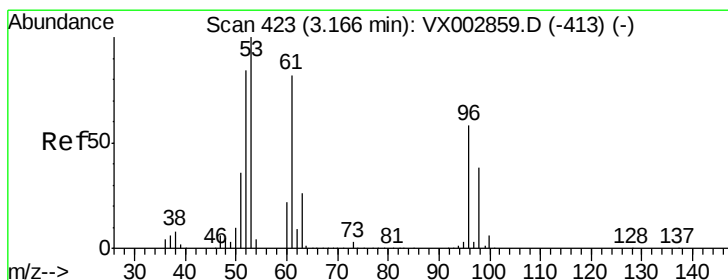
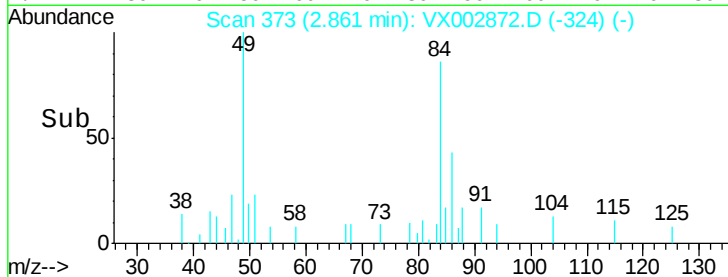
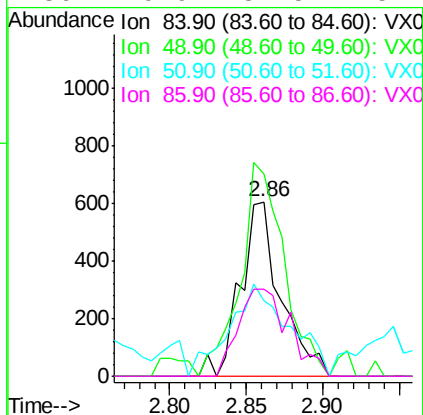
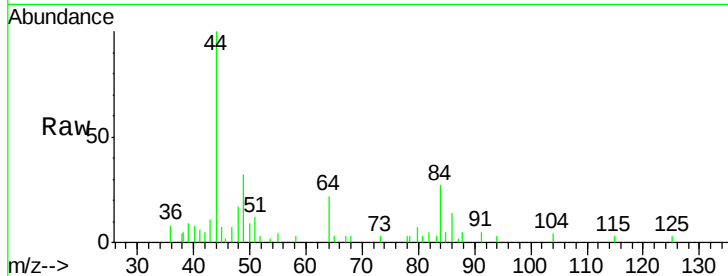




#20
Methylene Chloride
Concen: 0.41 ug/l
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002872.D
Acq: 25 Jun 2018 21:15

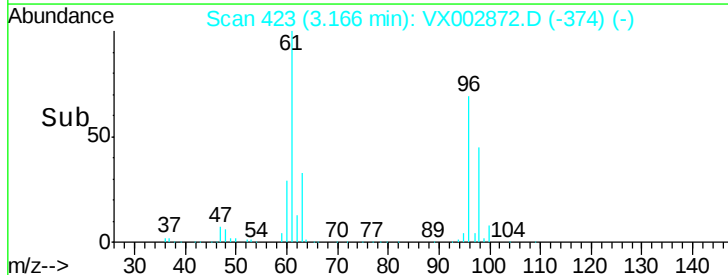
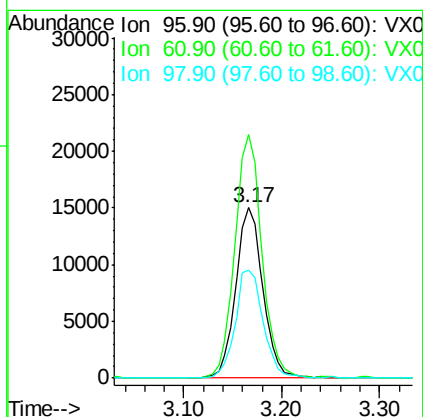
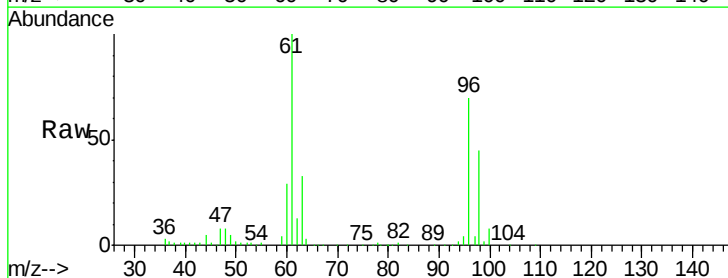
Instrument :
MSVOA_X
ClientSampled :

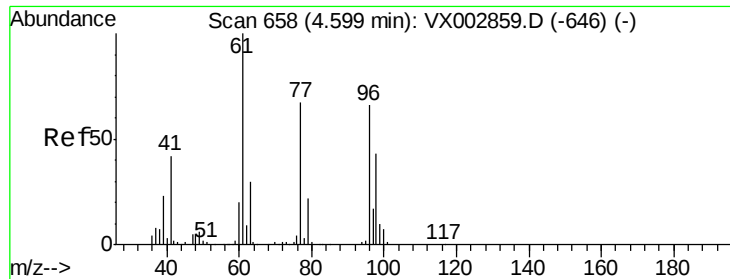
Tot Ion: 84 Resp: 1104
Ion Ratio Lower Upper
84 100
49 106.8 107.8 161.6#
51 43.3 32.8 49.2
86 49.9 52.5 78.7#



#21
trans-1,2-Dichloroethene
Concen: 11.07 ug/l
RT: 3.17 min Scan# 423
Delta R.T. -0.00 min
Lab File: VX002872.D
Acq: 25 Jun 2018 21:15

Tgt Ion: 96 Resp: 29057
Ion Ratio Lower Upper
96 100
61 142.7 117.0 175.4
98 63.7 52.4 78.6





#27

cis-1,2-Dichloroethene

Concen: 19.48 ug/l

RT: 4.60 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :
MSVOA_X
ClientSampleId :

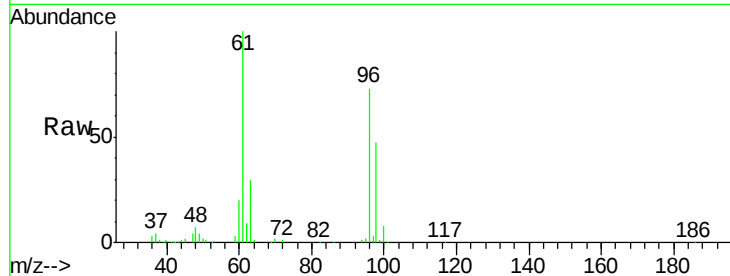
Tot Ion: 96 Resp: 57320

Ion Ratio Lower Upper

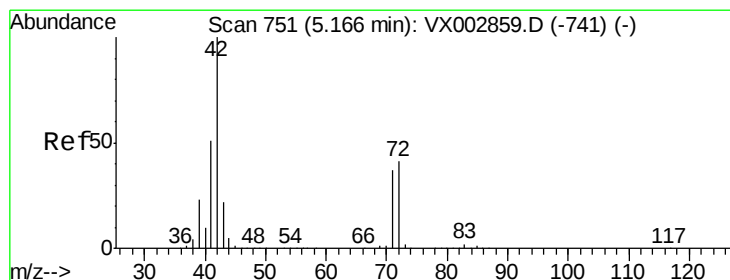
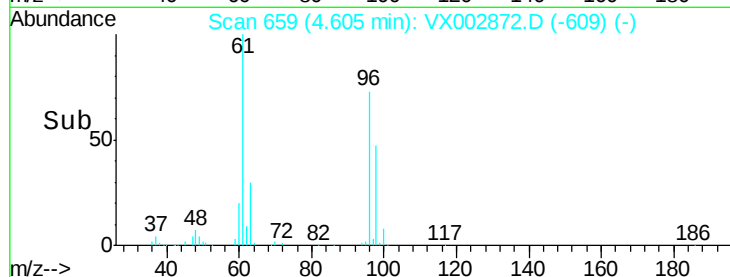
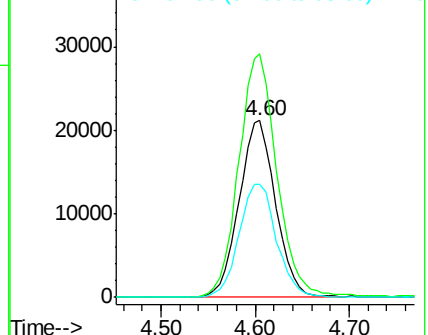
96 100

61 144.7 0.0 330.2

98 65.8 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.63 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

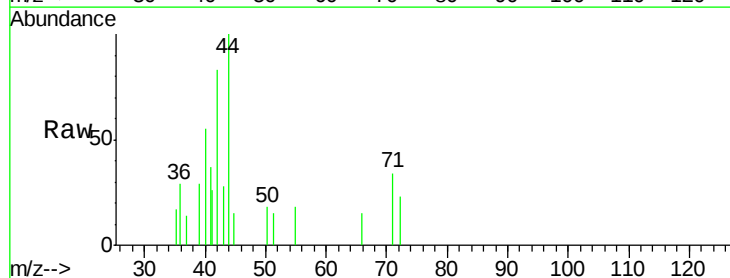
Tgt Ion: 42 Resp: 845

Ion Ratio Lower Upper

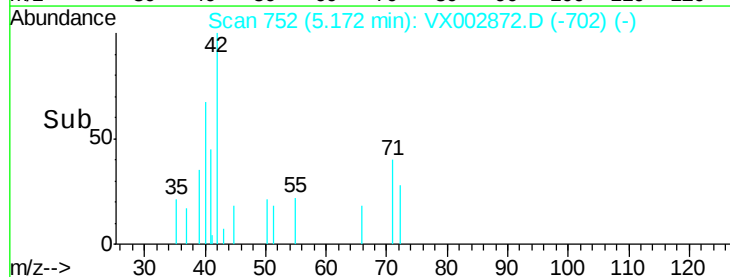
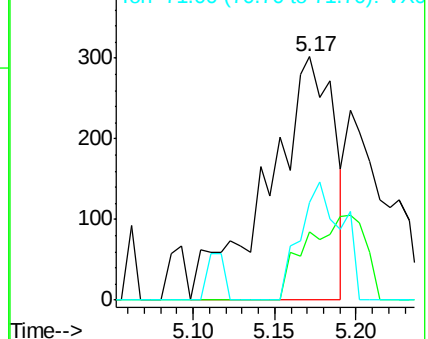
42 100

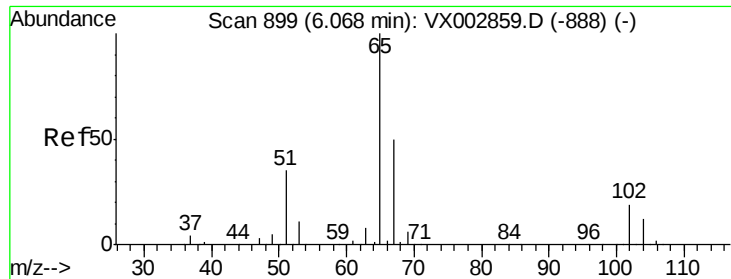
72 0.0 32.0 48.0#

71 30.8 30.1 45.1



Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

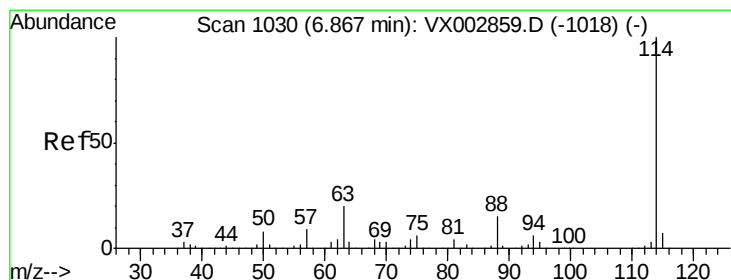
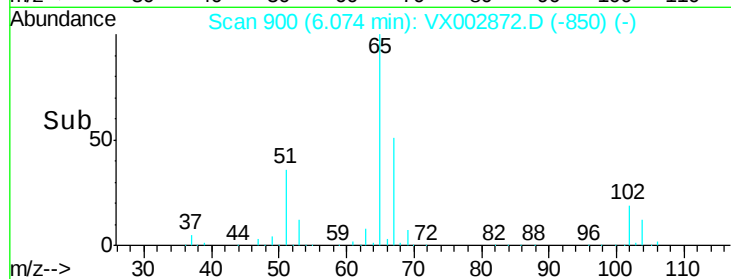
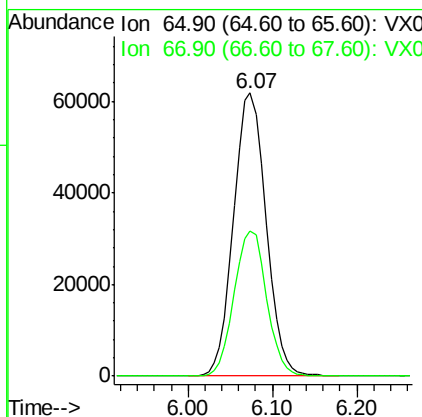
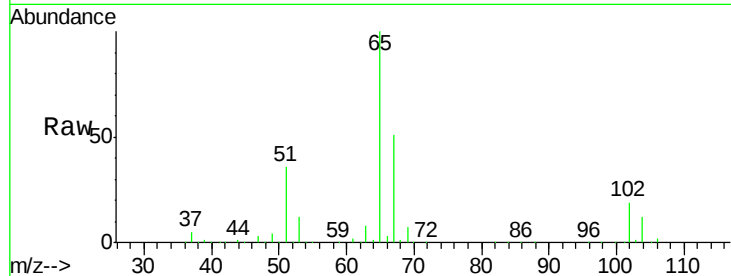




#33
 1,2-Dichloroethane-d4
 Concen: 47.88 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002872.D
 Acq: 25 Jun 2018 21:15

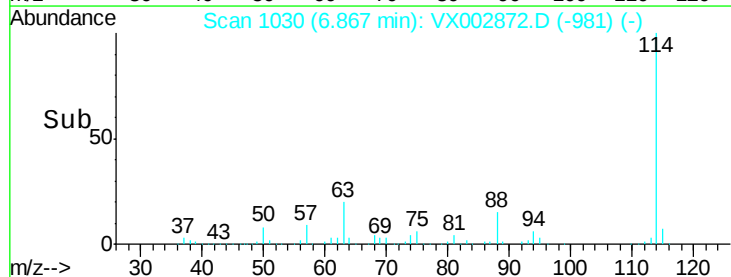
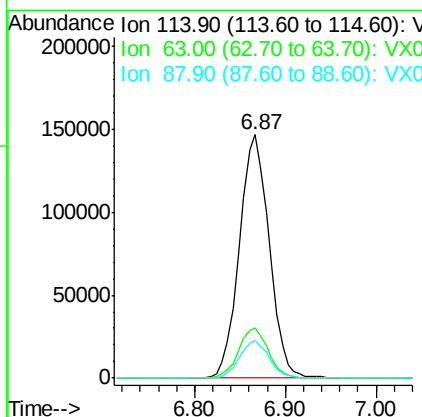
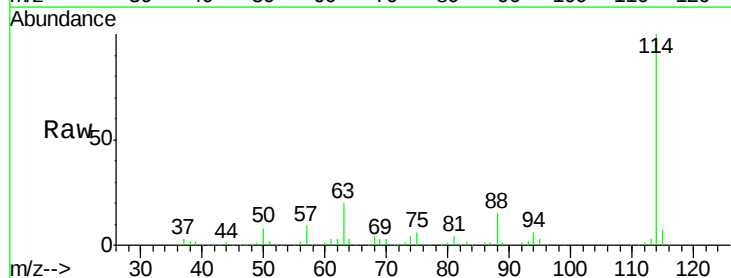
Instrument :
 MSVOA_X
 ClientSampleId :

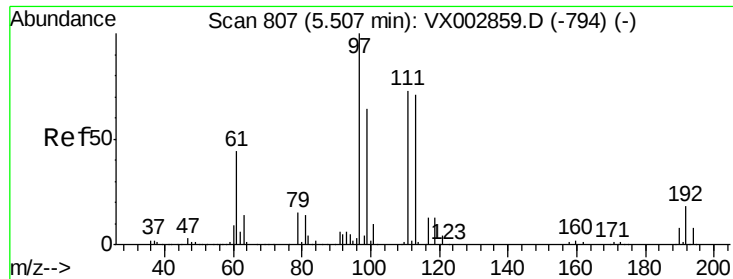
Tot Ion: 65 Resp: 161713
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002872.D
 Acq: 25 Jun 2018 21:15

Tgt Ion: 114 Resp: 335494
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 41.4
 88 15.4 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.37 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :

MSVOA_X

ClientSampled :

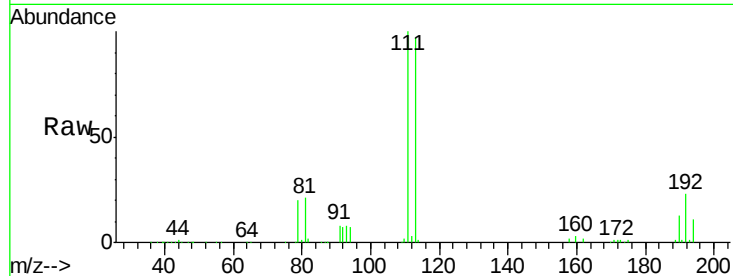
Tot Ion:113 Resp: 125845

Ion Ratio Lower Upper

113 100

111 103.2 81.4 122.0

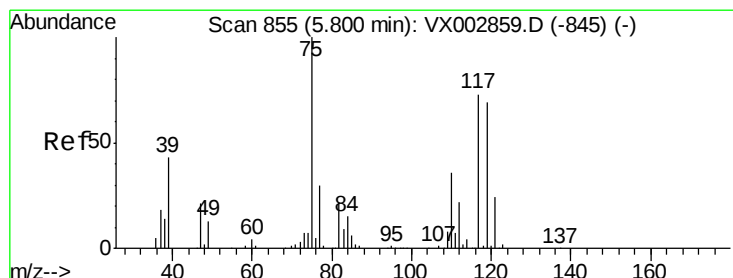
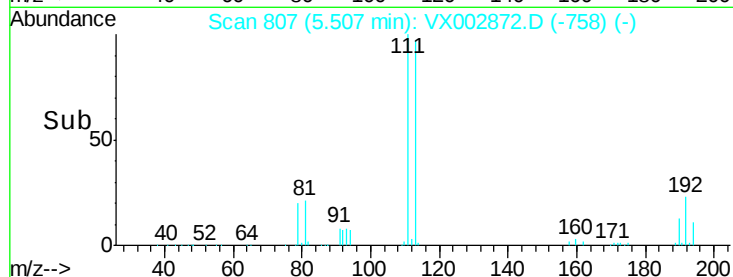
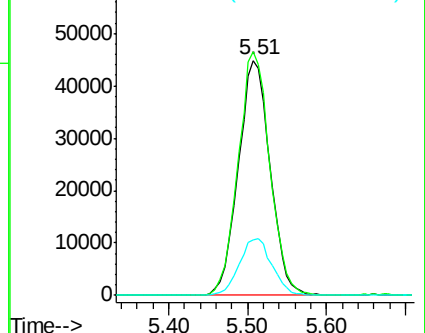
192 24.7 19.1 28.7



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: 4.45 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

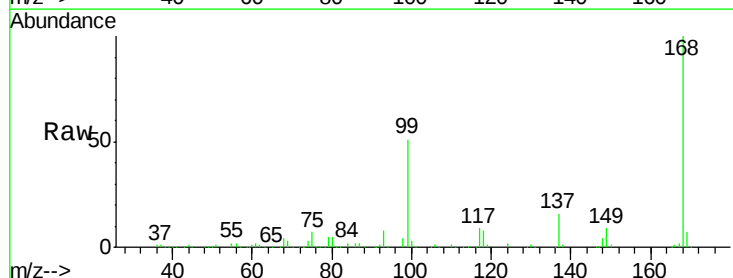
Tgt Ion: 75 Resp: 16370

Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

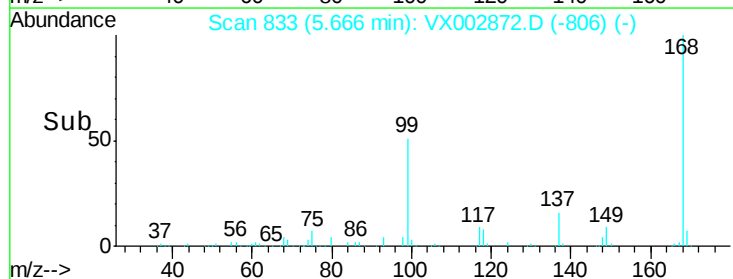
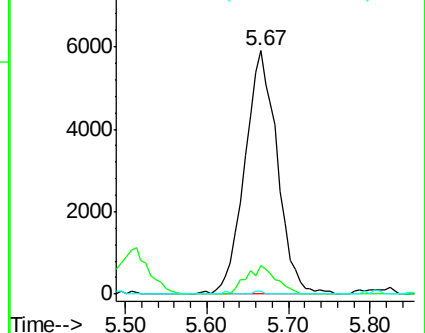
77 0.3 24.3 36.5#

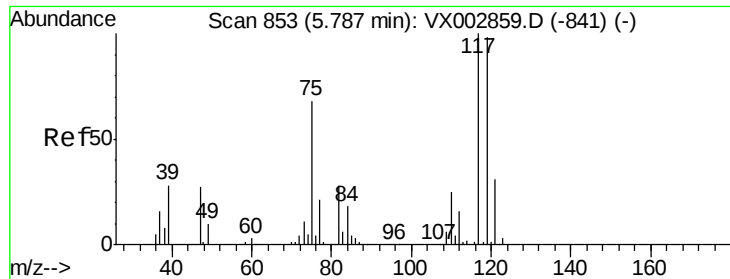


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.46 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

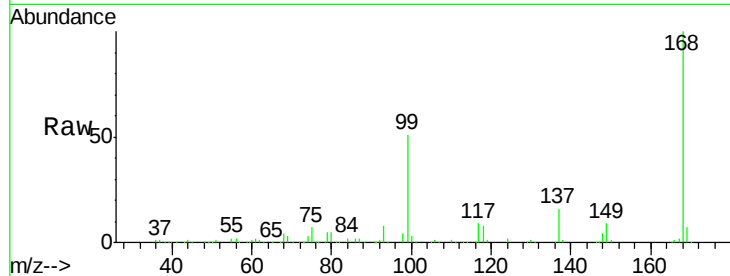
Tot Ion:117 Resp: 22039

Ion Ratio Lower Upper

117 100

119 6.5 77.4 116.0#

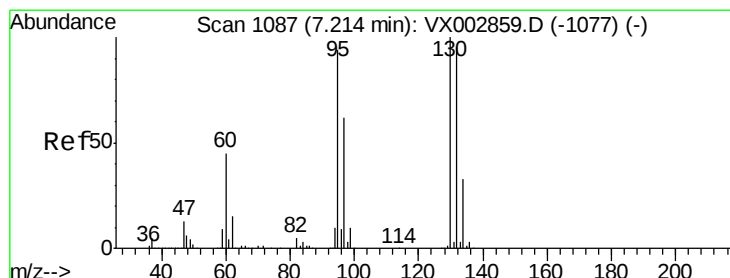
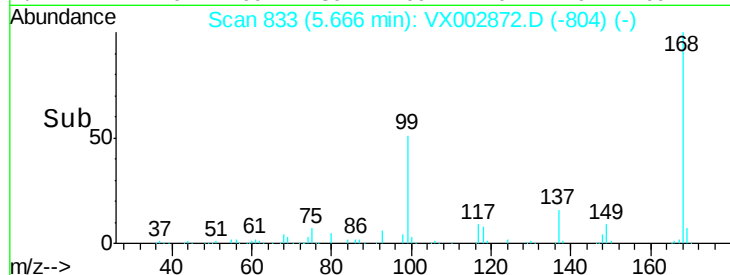
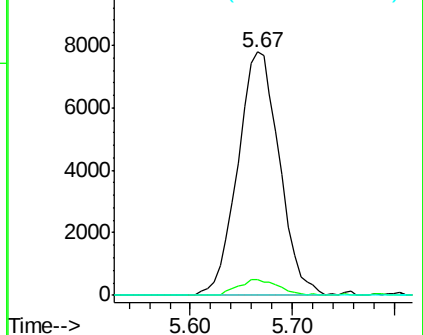
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 44.49 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX002872.D

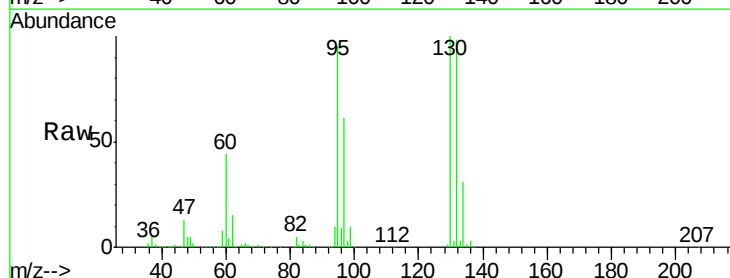
Acq: 25 Jun 2018 21:15

Tgt Ion:130 Resp: 141784

Ion Ratio Lower Upper

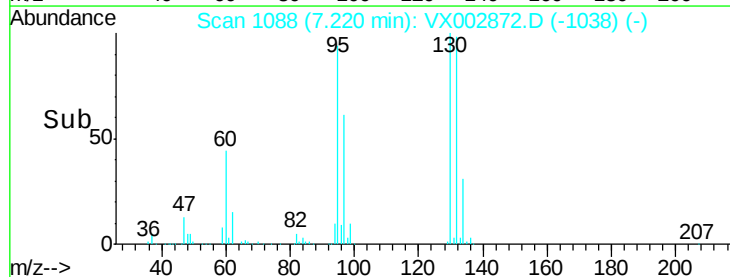
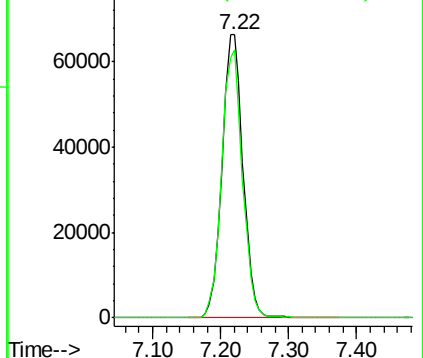
130 100

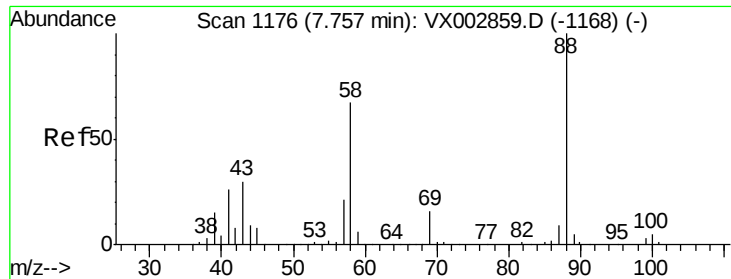
95 94.6 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

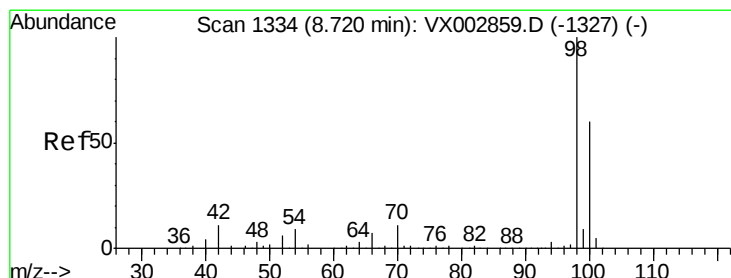
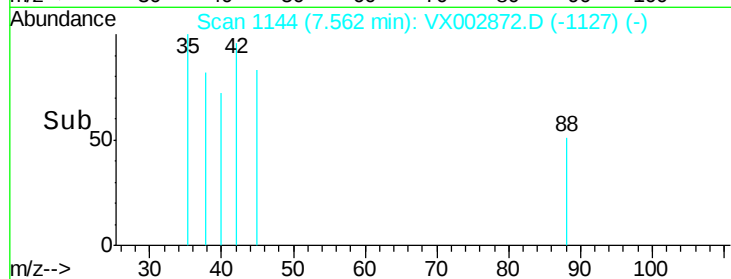
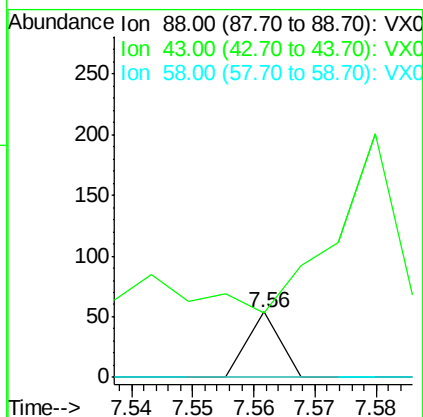
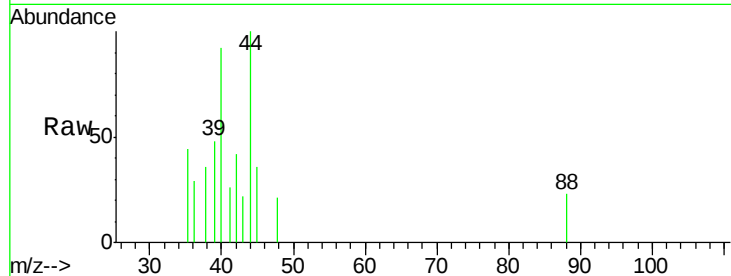




#49
 1,4-Dioxane
 Concen: 0.30 ug/l
 RT: 7.56 min Scan# 1144
 Delta R.T. -0.20 min
 Lab File: VX002872.D
 Acq: 25 Jun 2018 21:15

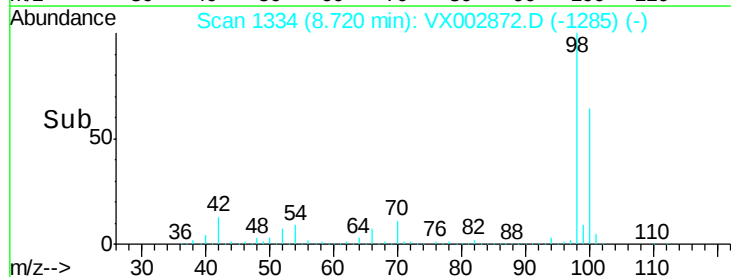
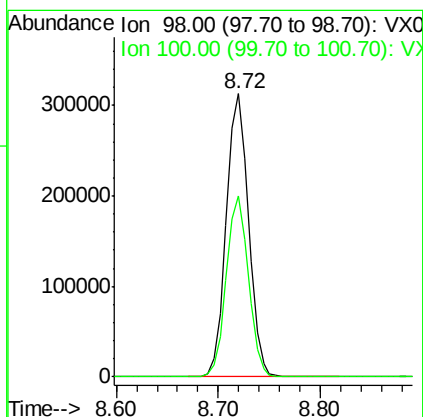
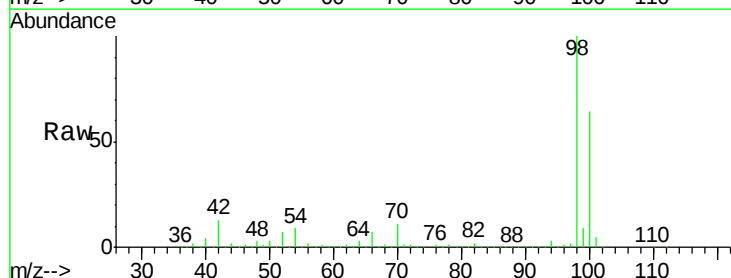
Instrument :
 MSVOA_X
 ClientSampled :

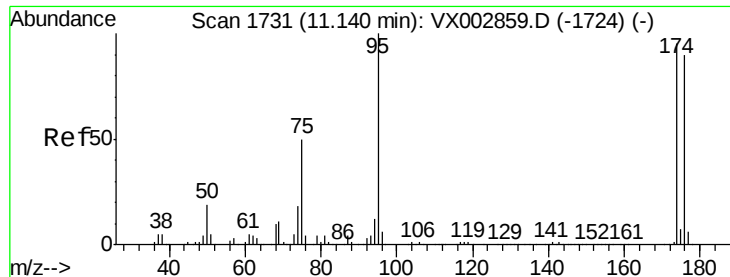
Tot Ion: 88 Resp: 20
 Ion Ratio Lower Upper
 88 100
 43 840.0 29.8 44.6#
 58 0.0 57.1 85.7#



#50
 Toluene-d8
 Concen: 48.78 ug/l
 RT: 8.72 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VX002872.D
 Acq: 25 Jun 2018 21:15

Tgt Ion: 98 Resp: 473265
 Ion Ratio Lower Upper
 98 100
 100 63.4 50.9 76.3

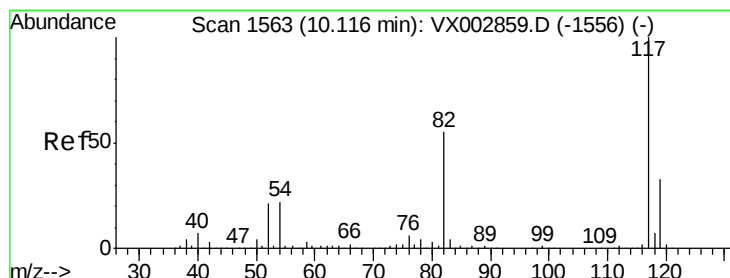
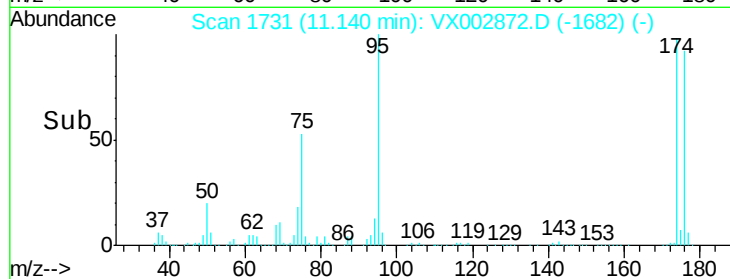
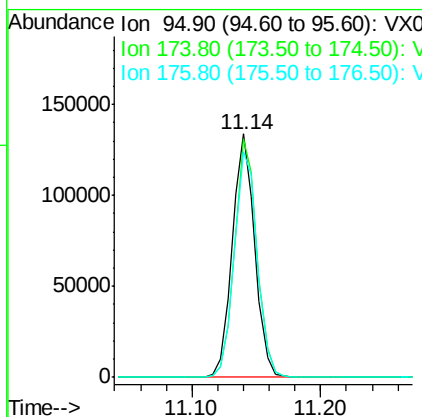
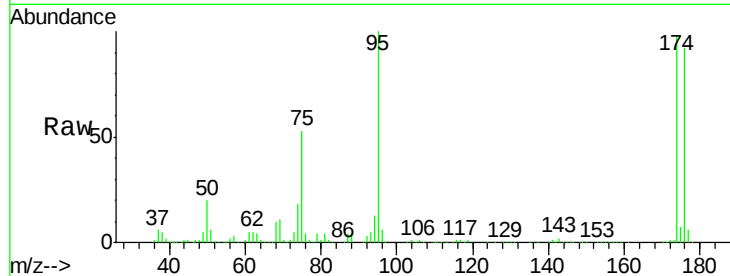




#62
4-Bromofluorobenzene
Concen: 43.57 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002872.D
Acq: 25 Jun 2018 21:15

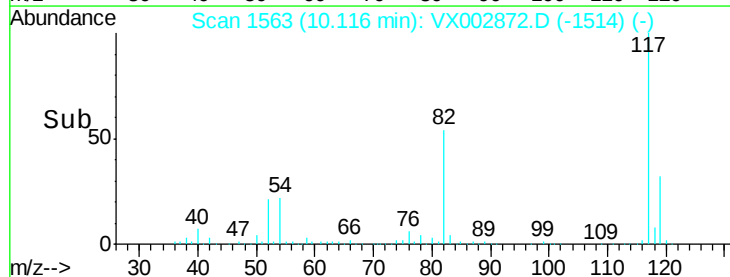
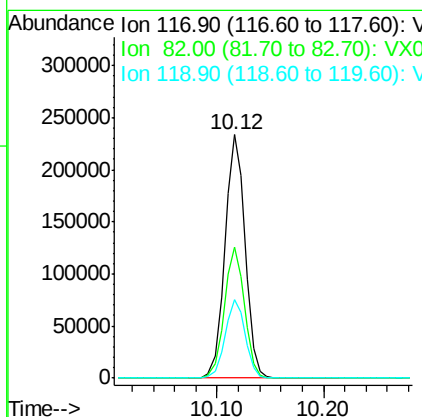
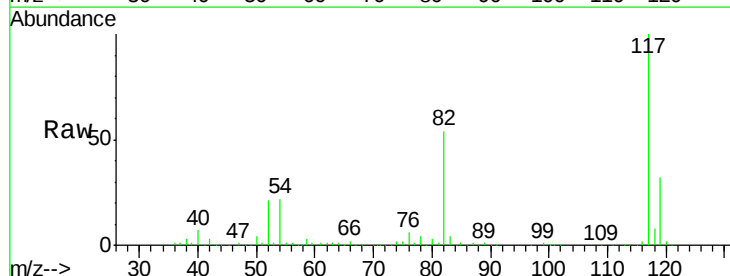
Instrument :
MSVOA_X
ClientSampleId :

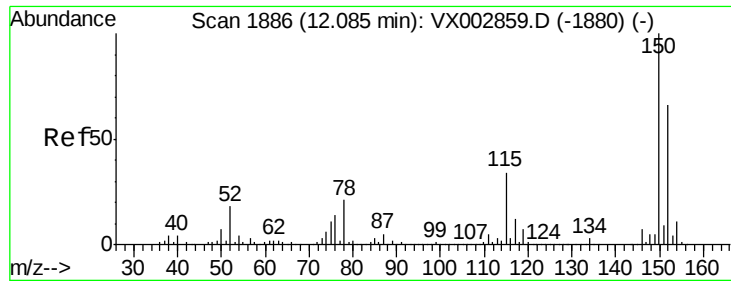
Tot Ion: 95 Resp: 163024
Ion Ratio Lower Upper
95 100
174 97.6 0.0 187.4
176 94.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002872.D
Acq: 25 Jun 2018 21:15

Tgt Ion: 117 Resp: 309431
Ion Ratio Lower Upper
117 100
82 53.8 45.0 67.4
119 32.2 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX002872.D

Acq: 25 Jun 2018 21:15

Instrument :

MSVOA_X

ClientSampleId :

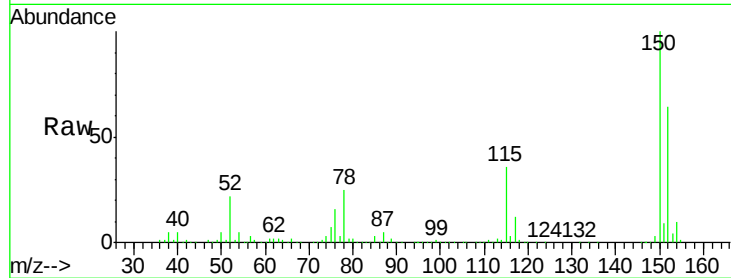
Tot Ion:152 Resp: 171043

Ion Ratio Lower Upper

152 100

115 54.6 40.1 120.2

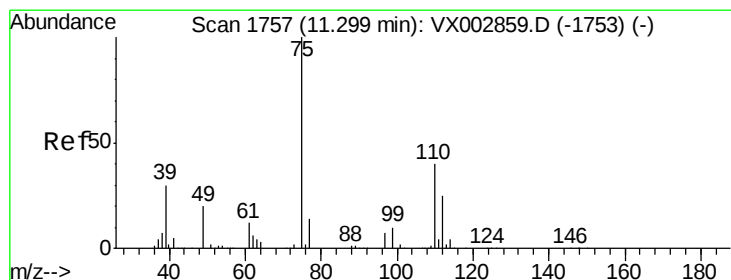
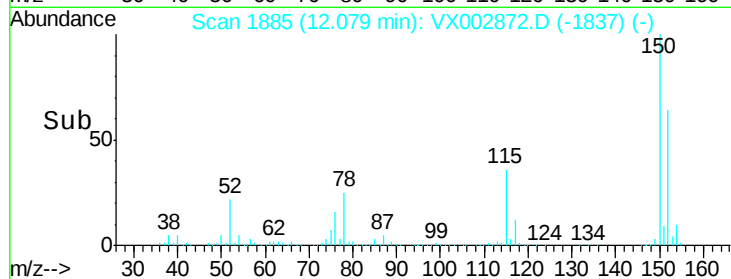
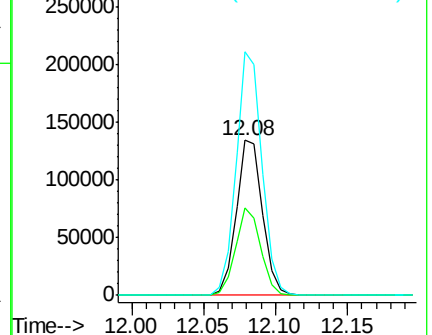
150 155.5 0.0 347.2



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: 27.91 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002872.D

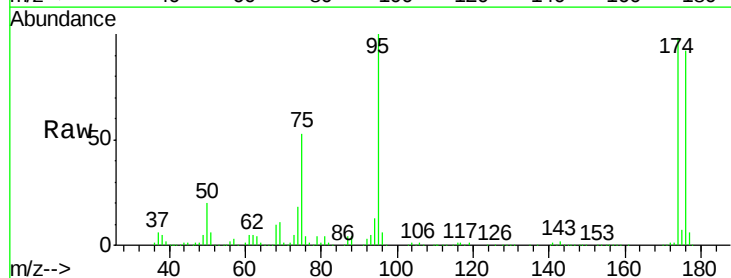
Acq: 25 Jun 2018 21:15

Tgt Ion: 75 Resp: 86482

Ion Ratio Lower Upper

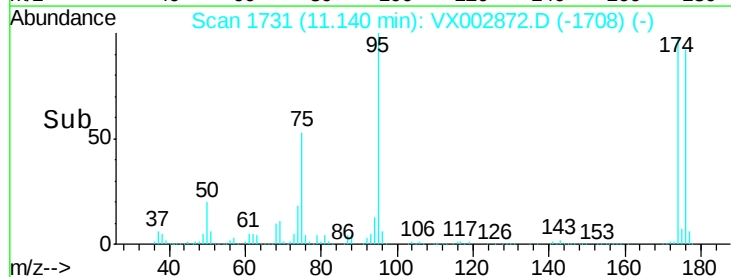
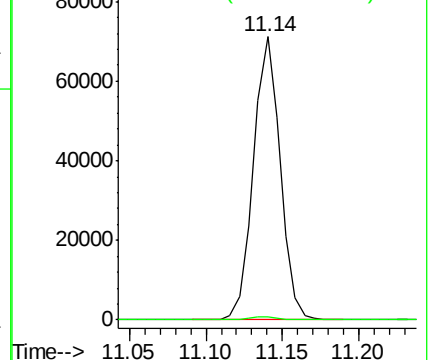
75 100

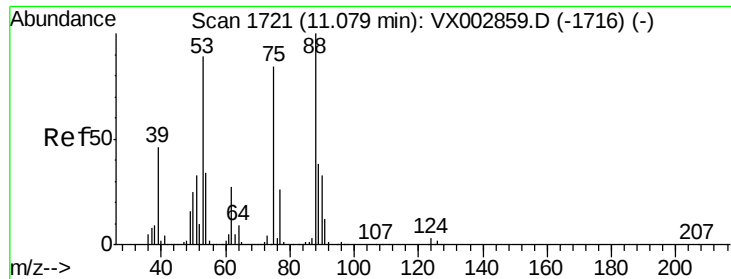
77 1.3 22.8 68.3#



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: 78.91 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002872.D
 Acq: 25 Jun 2018 21:15

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 86482
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#

