

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062918\
 Data File : VX003036.D
 Acq On : 29 Jun 2018 18:31
 Operator : JC/MD
 Sample : J3695-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 29 23:30:14 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	261859	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	364662	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	340231	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	192669	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	172910	47.77	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.54%	
35) Dibromofluoromethane	5.51	113	140250	48.57	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.14%	
50) Toluene-d8	8.72	98	510492	48.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	96.82%	
62) 4-Bromofluorobenzene	11.14	95	180617	44.41	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.82%	

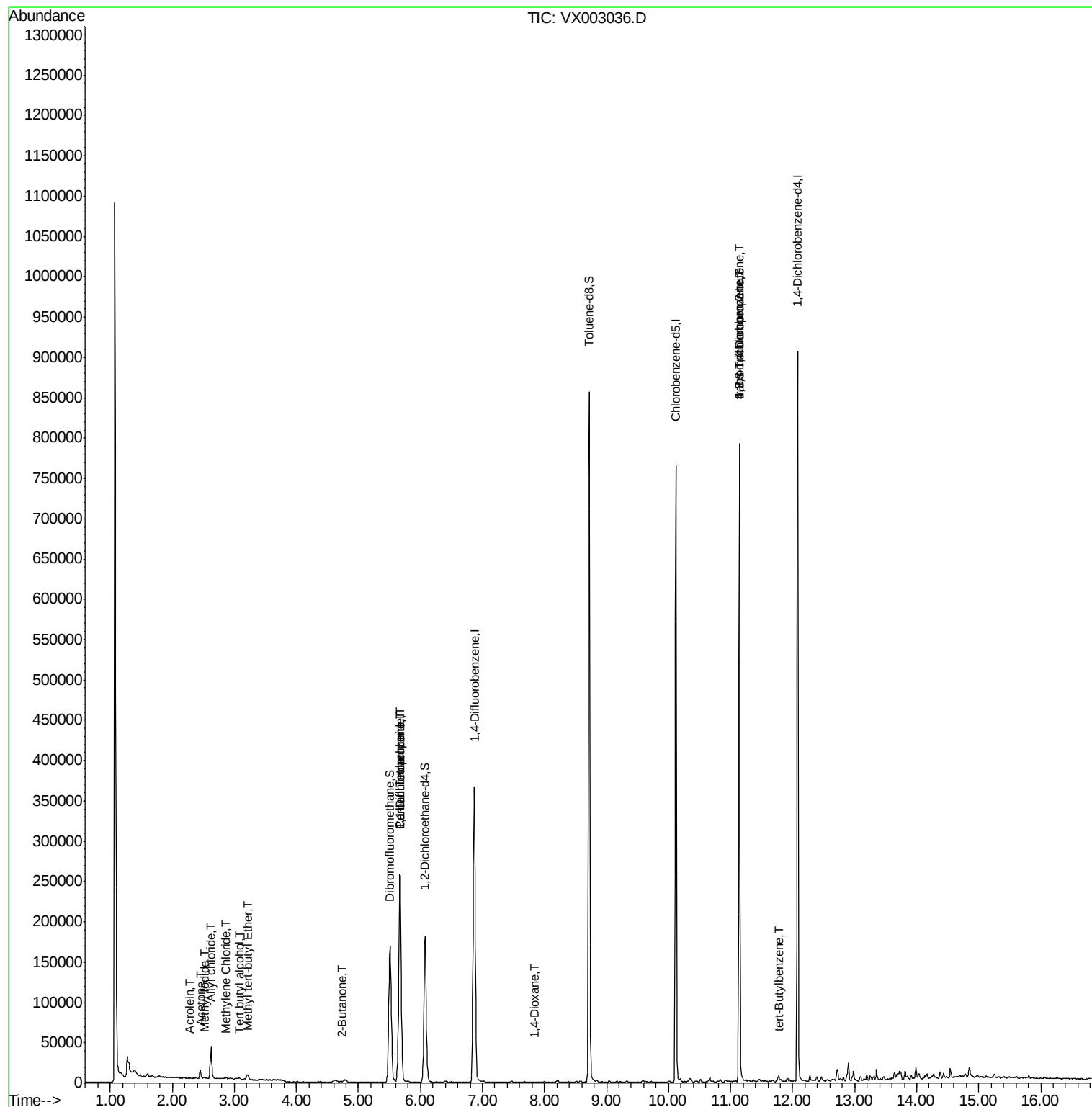
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	113	Below Cal		76
3) Chloromethane	1.33	50	764	Below Cal	#	74
5) Bromomethane	1.61	94	162	Below Cal	#	3
6) Chloroethane	1.70	64	775	Below Cal	#	63
10) Methyl Iodide	2.52	142	1319	6.62	ug/l	95
11) Tert butyl alcohol	3.08	59	1957	2.71	ug/l	62
13) Acrolein	2.28	56	218	4.77	ug/l	37
14) Allyl chloride	2.62	41	4238	0.83	ug/l	73
16) Acetone	2.45	43	11188	7.46	ug/l	99
19) Methyl tert-butyl Ether	3.21	73	6591	0.71	ug/l	83
20) Methylene Chloride	2.86	84	949	0.33	ug/l	80
25) 2-Butanone	4.73	43	1006	0.45	ug/l	98
36) 1,1-Dichloropropene	5.67	75	17005	4.25	ug/l	51
38) Carbon Tetrachloride	5.67	117	23469	5.35	ug/l	15
49) 1,4-Dioxane	7.84	88	25	0.35	ug/l	22
76) 1,2,3-Trichloropropane	11.14	75	93865	26.90	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	93865	76.15	ug/l	6
83) tert-Butylbenzene	11.77	119	2221	0.21	ug/l	81

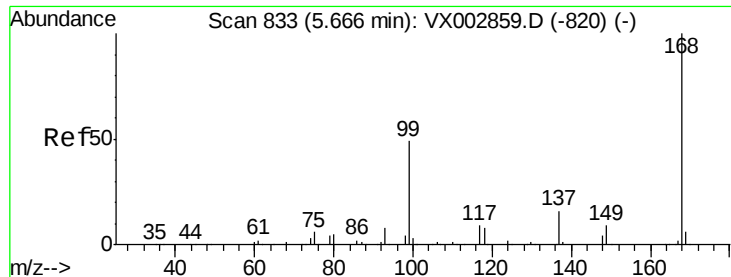
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

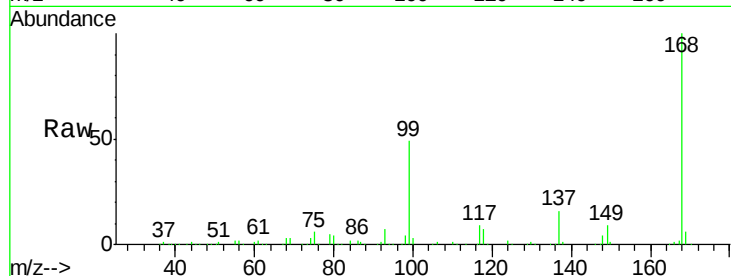
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 261859

Ion Ratio Lower Upper

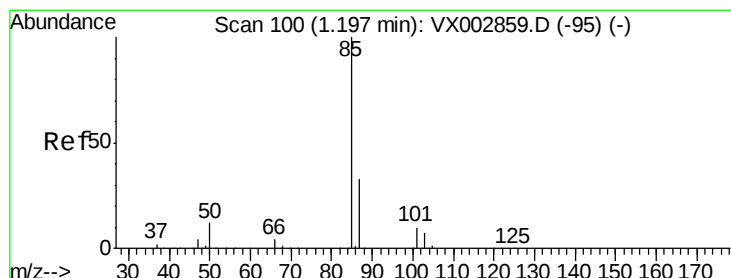
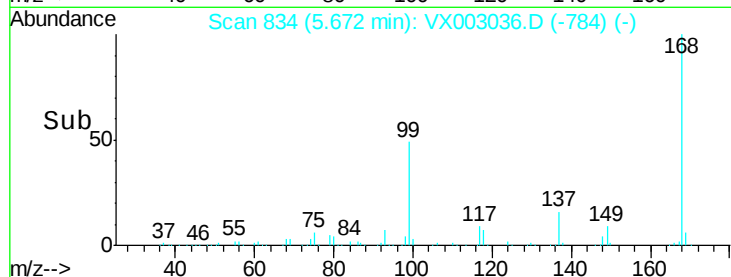
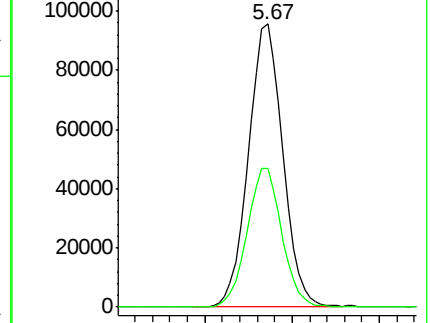
168 100

99 48.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003036.D

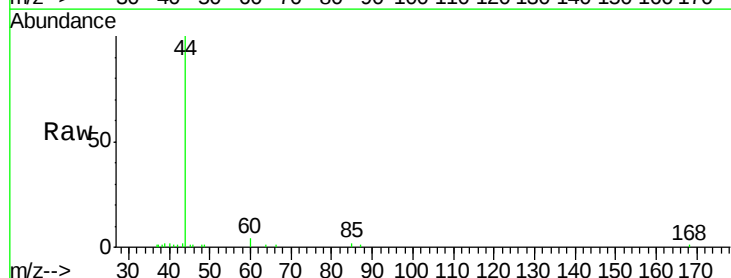
Acq: 29 Jun 2018 18:31

Tgt Ion: 85 Resp: 113

Ion Ratio Lower Upper

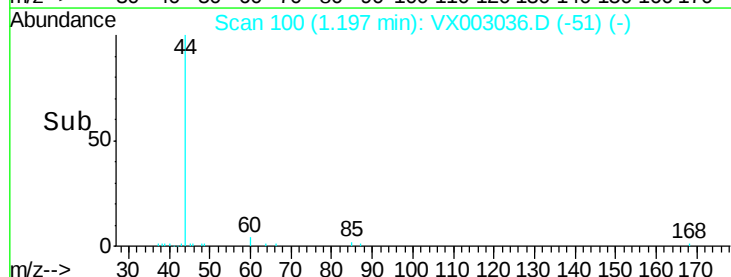
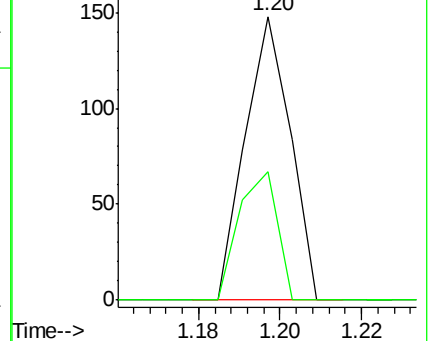
85 100

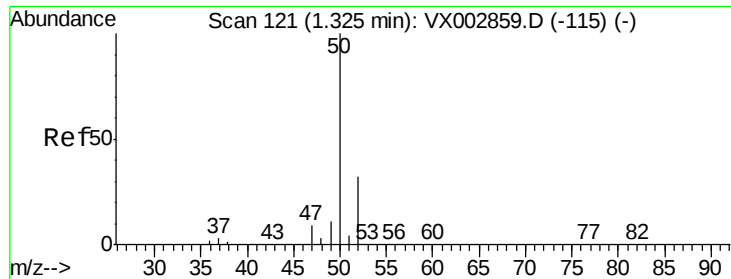
87 45.3 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

Instrument :

MSVOA_X

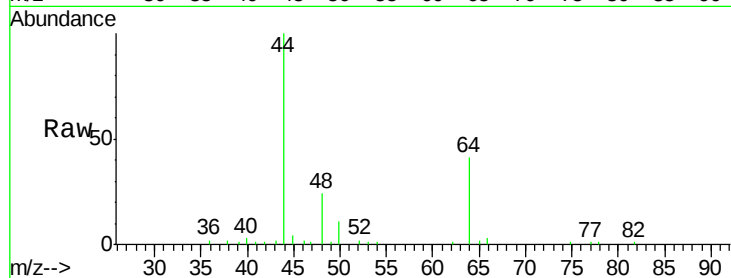
ClientSampleId :

Tot Ion: 50 Resp: 764

Ion Ratio Lower Upper

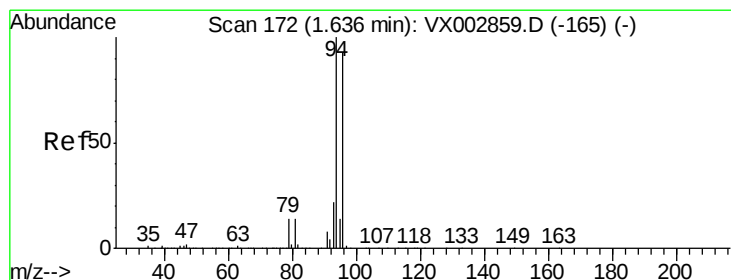
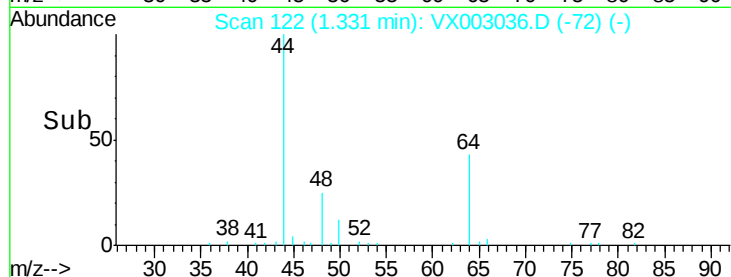
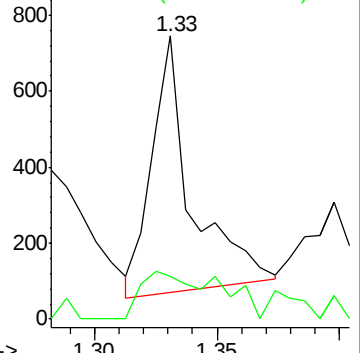
50 100

52 17.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.61 min Scan# 168

Delta R.T. -0.02 min

Lab File: VX003036.D

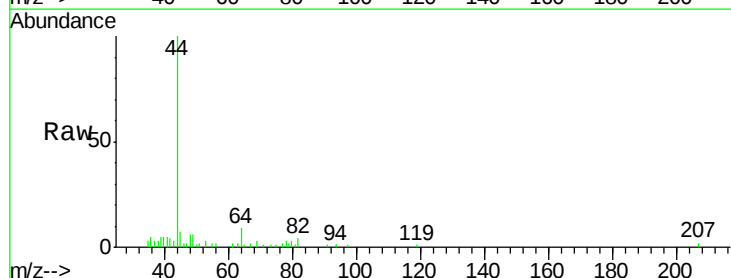
Acq: 29 Jun 2018 18:31

Tgt Ion: 94 Resp: 162

Ion Ratio Lower Upper

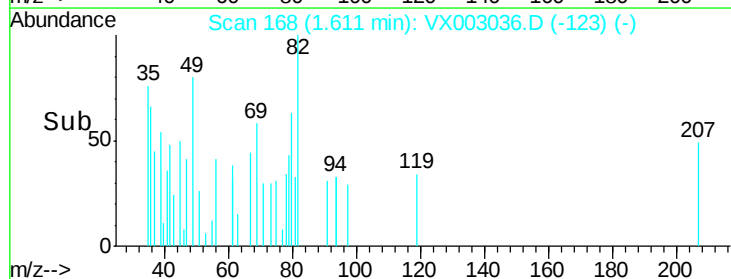
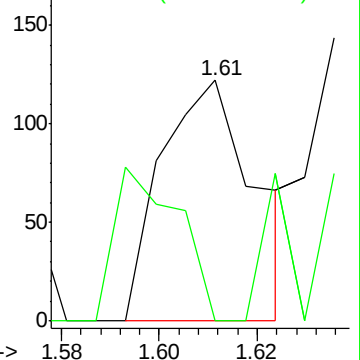
94 100

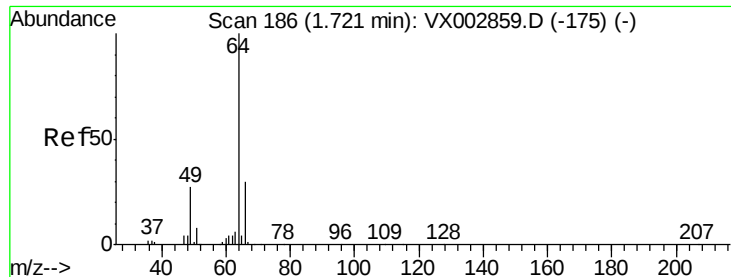
96 0.0 74.9 112.3#



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: VX003036.D

Acq: 29 Jun 2018 18:31

Instrument :

MSVOA_X

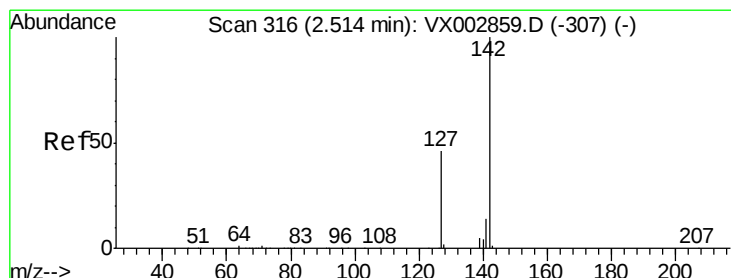
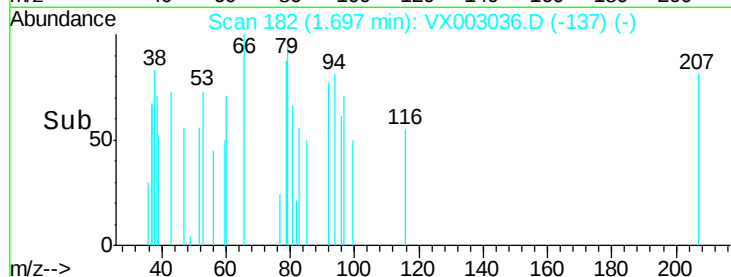
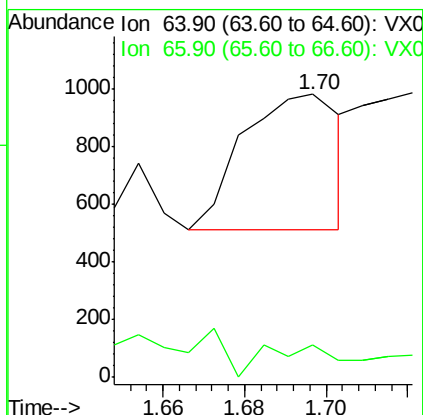
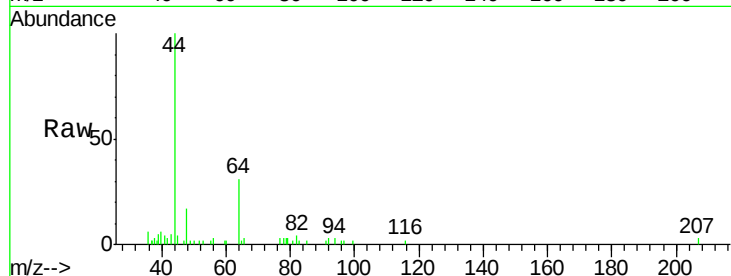
ClientSampled :

Tot Ion: 64 Resp: 775

Ion Ratio Lower Upper

64 100

66 11.5 25.5 38.3#



#10

Methyl Iodide

Concen: 6.62 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

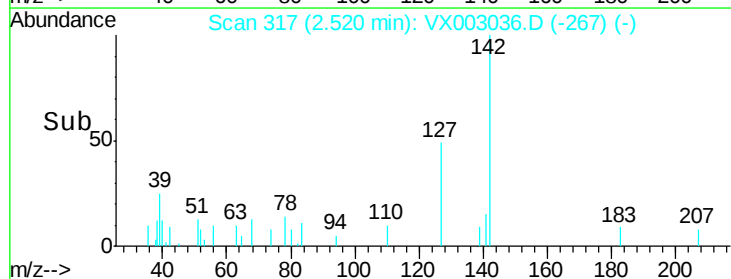
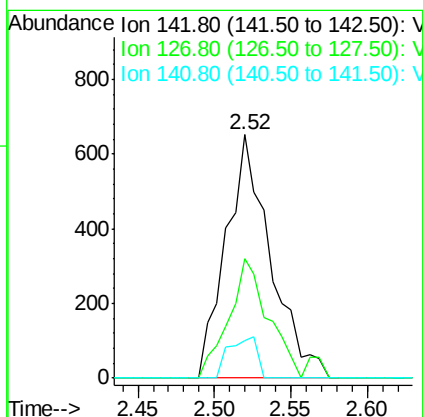
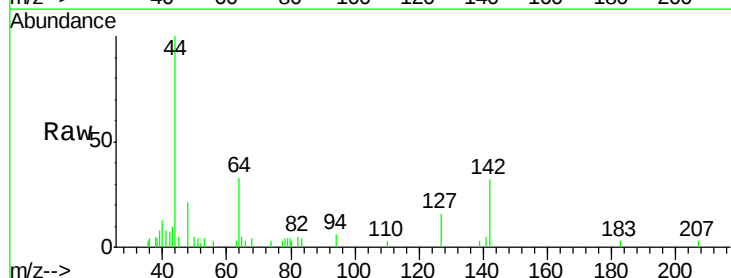
Tgt Ion:142 Resp: 1319

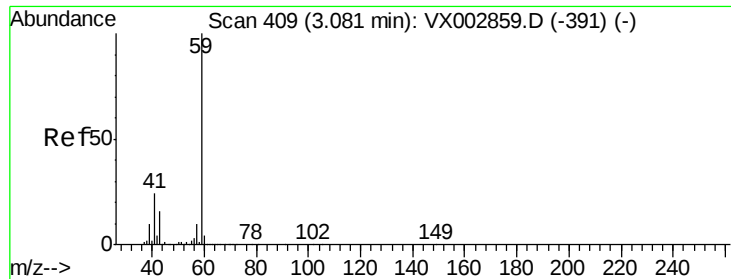
Ion Ratio Lower Upper

142 100

127 43.4 36.6 55.0

141 10.5 11.3 16.9#



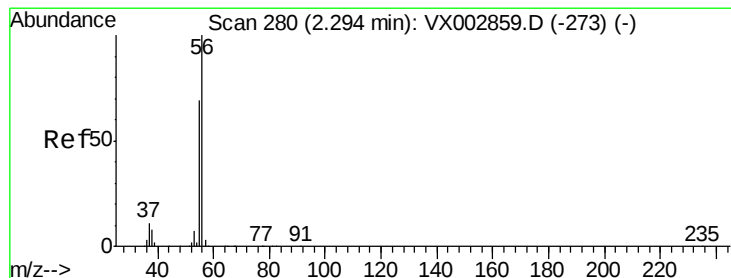
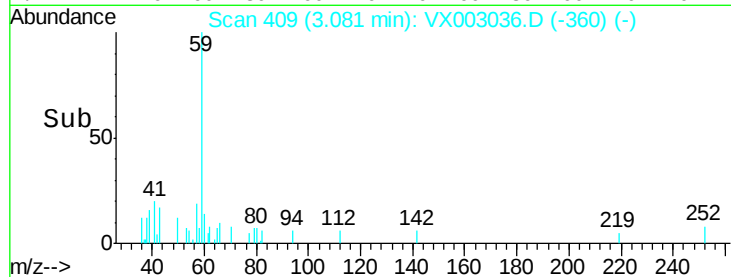
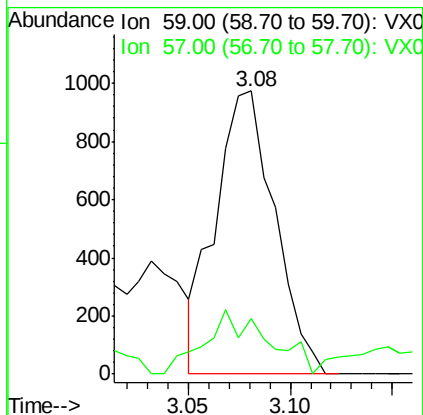
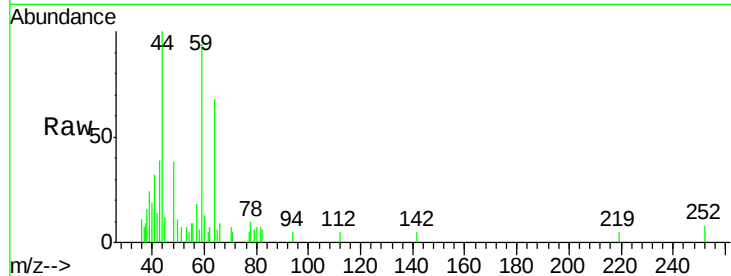


#11

Tert butyl alcohol
 Concen: 2.71 ug/l
 RT: 3.08 min Scan# 409
 Delta R.T. 0.00 min
 Lab File: VX003036.D
 Acq: 29 Jun 2018 18:31

Instrument :
 MSVOA_X
 ClientSampled :

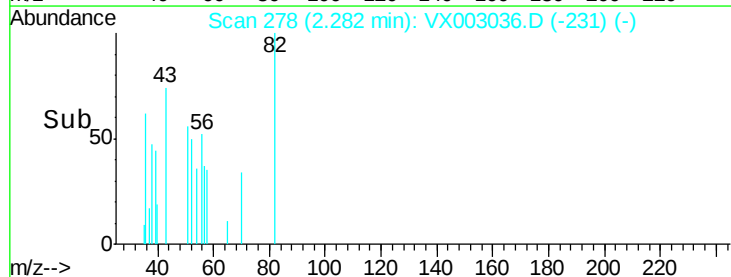
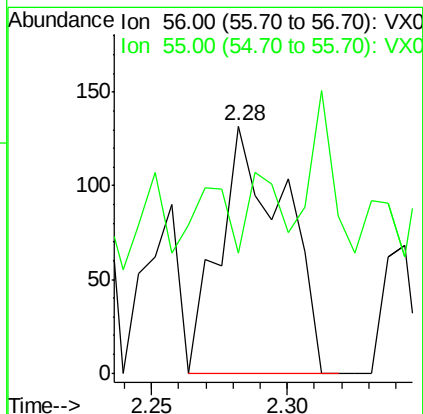
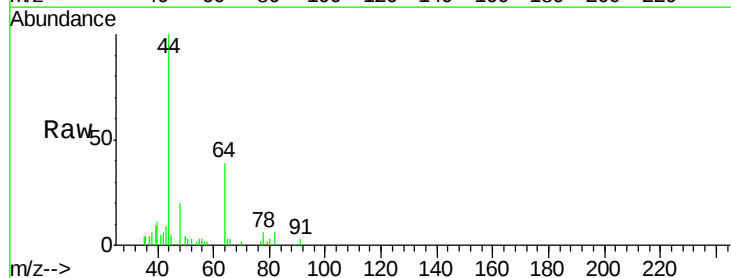
Tot Ion: 59 Resp: 1957
 Ion Ratio Lower Upper
 59 100
 57 24.3 8.2 12.2#

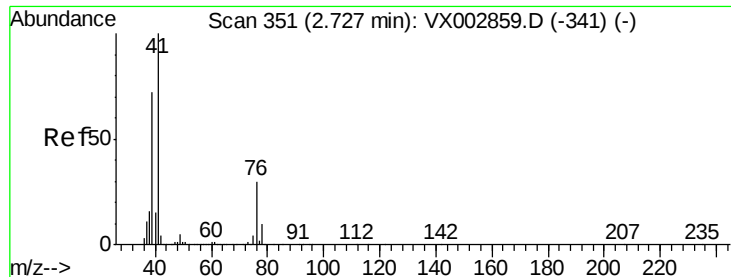


#13

Acrolein
 Concen: 4.77 ug/l
 RT: 2.28 min Scan# 278
 Delta R.T. -0.01 min
 Lab File: VX003036.D
 Acq: 29 Jun 2018 18:31

Tgt Ion: 56 Resp: 218
 Ion Ratio Lower Upper
 56 100
 55 19.3 57.0 85.4#





#14

Allvl chloride

Concen: 0.83 ug/l

RT: 2.62 min Scan# 334

Delta R.T. -0.10 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

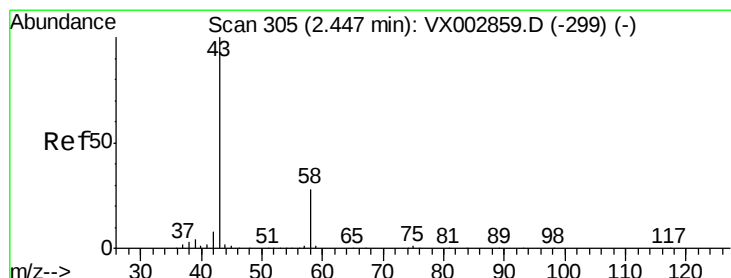
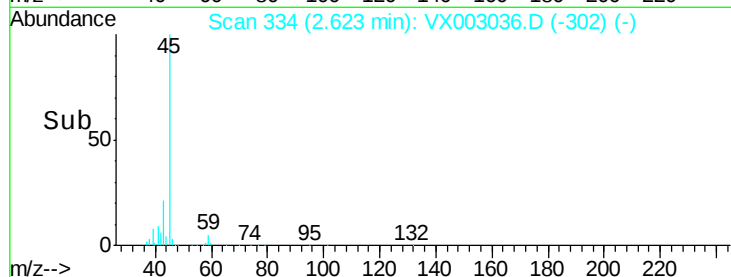
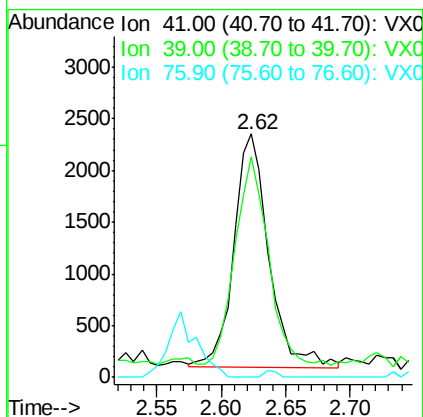
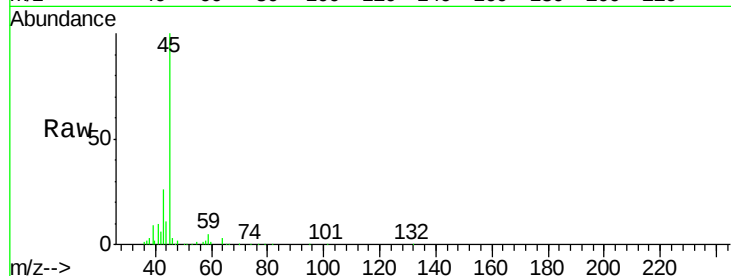
Tot Ion: 41 Resp: 4238

Ion Ratio Lower Upper

41 100

39 84.5 56.8 85.2

76 1.0 23.8 35.8#



#16

Acetone

Concen: 7.46 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003036.D

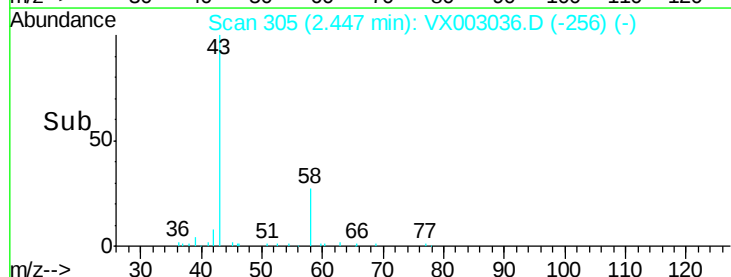
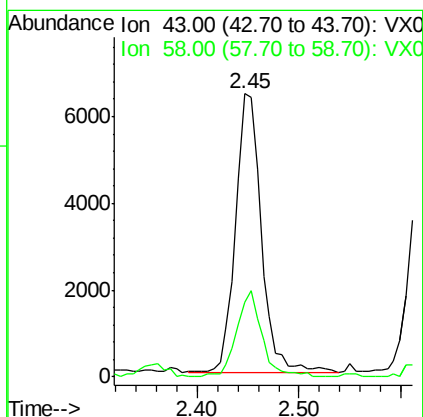
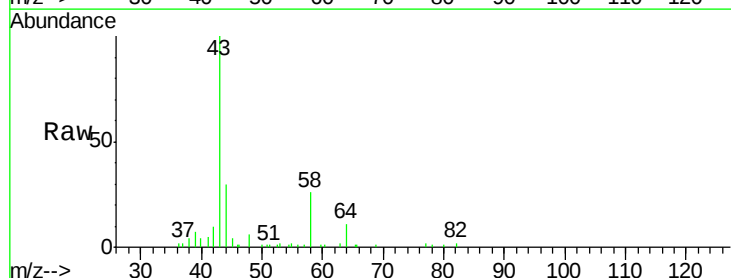
Acq: 29 Jun 2018 18:31

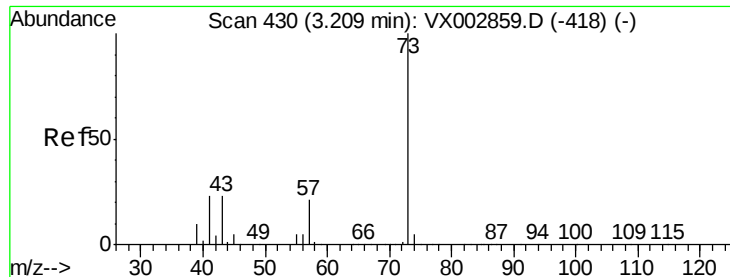
Tgt Ion: 43 Resp: 11188

Ion Ratio Lower Upper

43 100

58 26.9 22.1 33.1



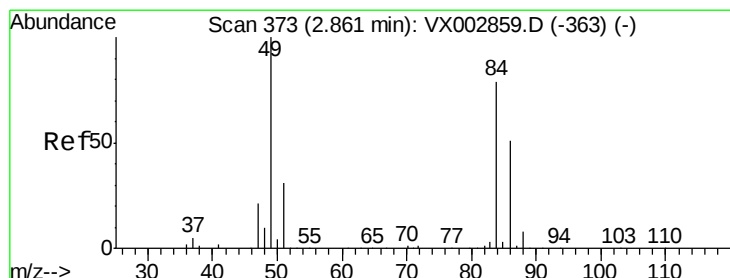
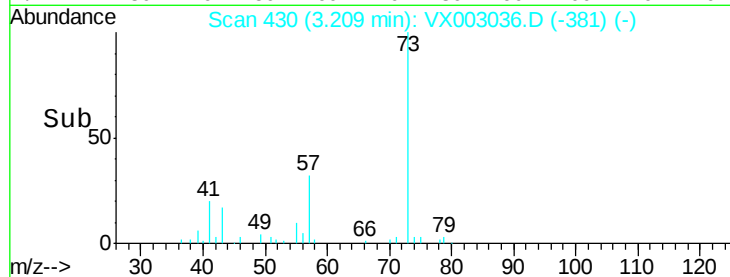
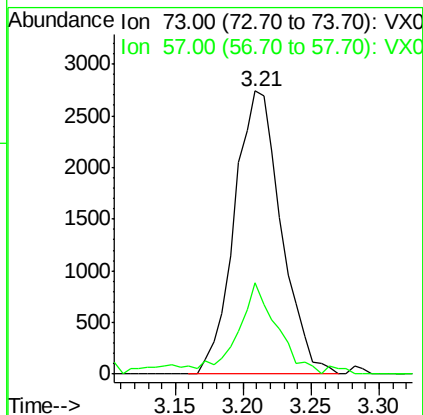
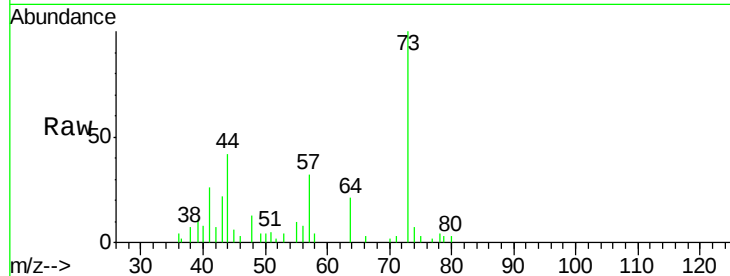


#19

Methyl tert-butyl Ether
 Concen: 0.71 ug/l
 RT: 3.21 min Scan# 430
 Delta R.T. 0.00 min
 Lab File: VX003036.D
 Acq: 29 Jun 2018 18:31

Instrument :
 MSVOA_X
 ClientSampleId :

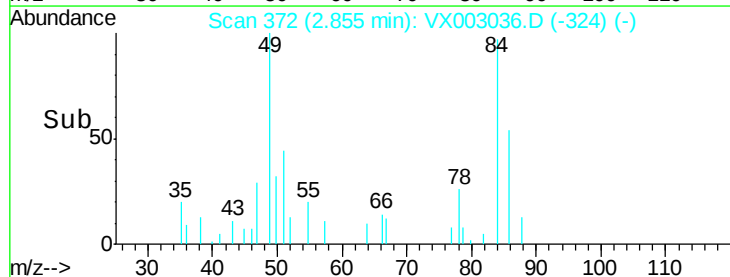
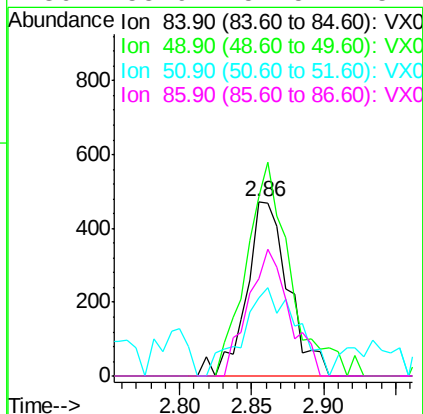
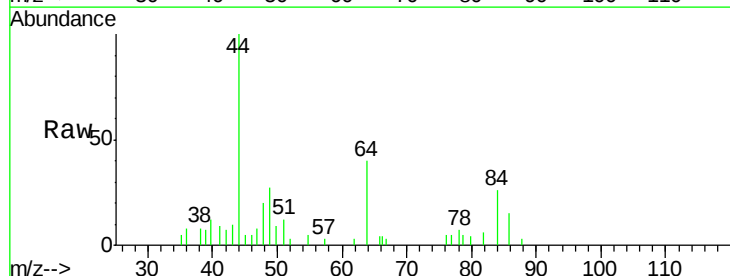
Tot Ion: 73 Resp: 6591
 Ion Ratio Lower Upper
 73 100
 57 30.1 17.7 26.5#

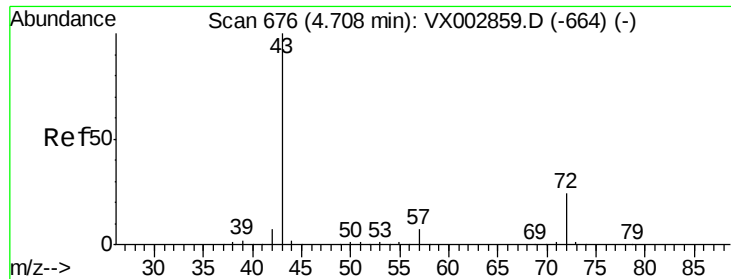


#20

Methylene Chloride
 Concen: 0.33 ug/l
 RT: 2.86 min Scan# 372
 Delta R.T. -0.01 min
 Lab File: VX003036.D
 Acq: 29 Jun 2018 18:31

Tgt Ion: 84 Resp: 949
 Ion Ratio Lower Upper
 84 100
 49 102.8 107.8 161.6#
 51 33.3 32.8 49.2
 86 55.9 52.5 78.7

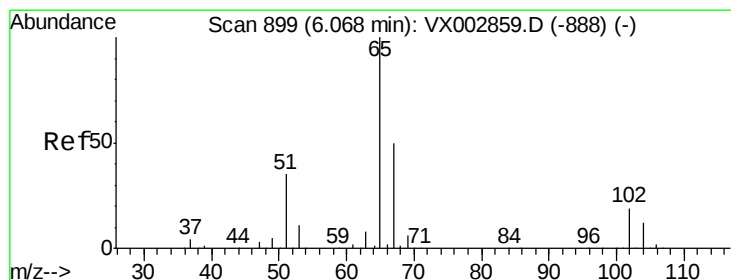
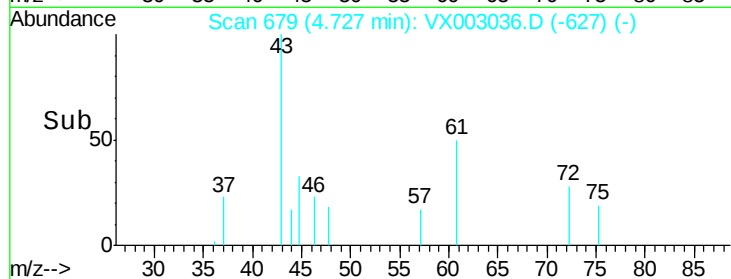
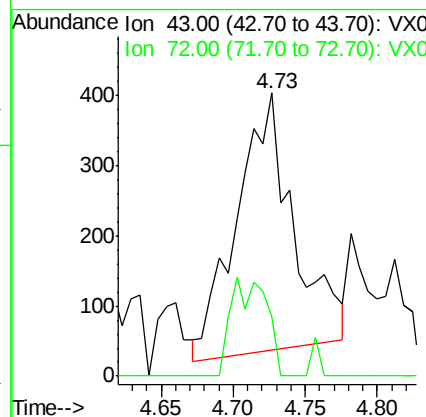
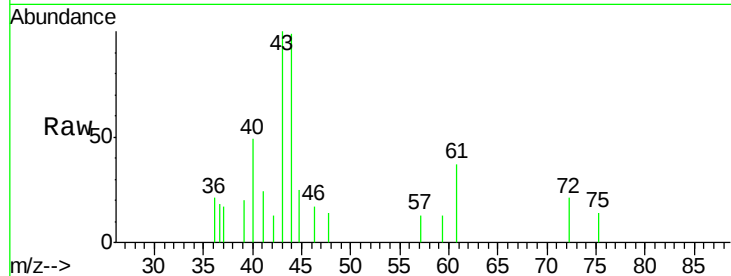




#25
2-Butanone
Concen: 0.45 ug/l
RT: 4.73 min Scan# 679
Delta R.T. 0.02 min
Lab File: VX003036.D
Acq: 29 Jun 2018 18:31

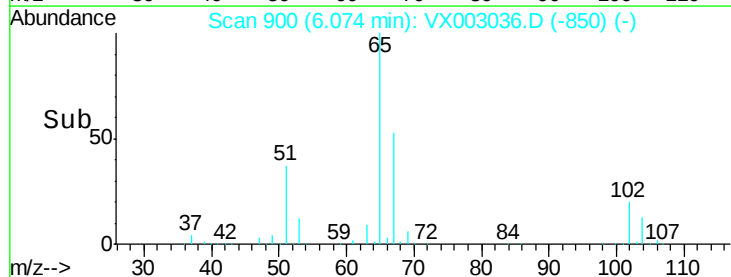
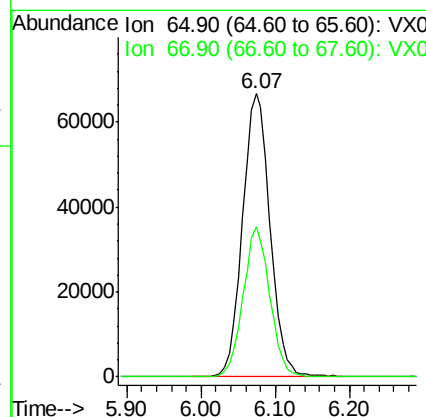
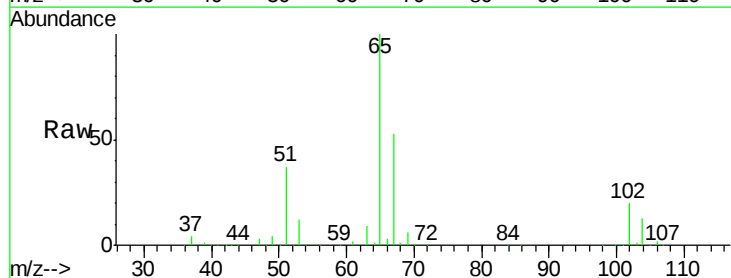
Instrument :
MSVOA_X
ClientSampled :

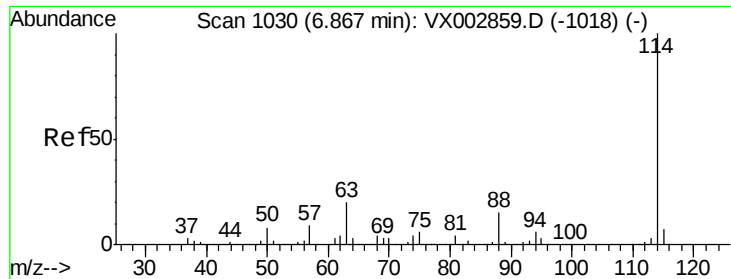
Tot Ion: 43 Resp: 1006
Ion Ratio Lower Upper
43 100
72 23.9 18.5 27.7



#33
1,2-Dichloroethane-d4
Concen: 47.77 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX003036.D
Acq: 29 Jun 2018 18:31

Tgt Ion: 65 Resp: 172910
Ion Ratio Lower Upper
65 100
67 51.4 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: VX003036.D

Acq: 29 Jun 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

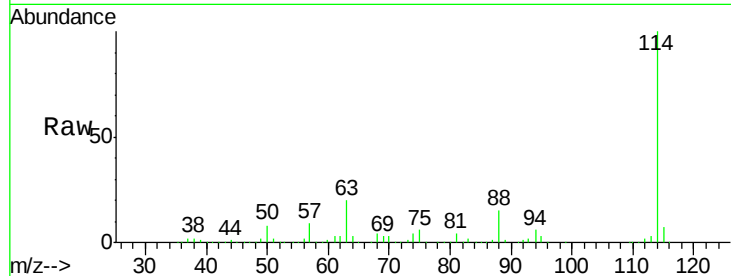
Tot Ion:114 Resp: 364662

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.4

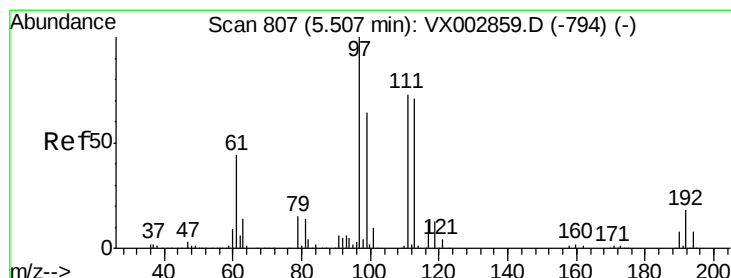
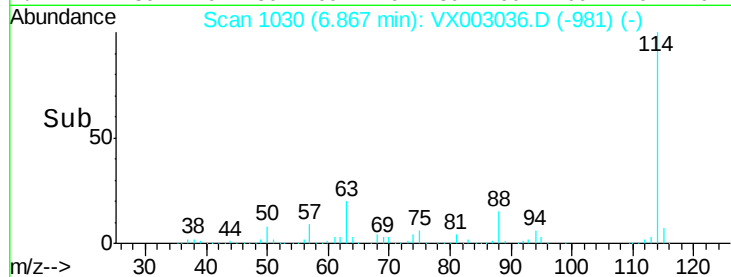
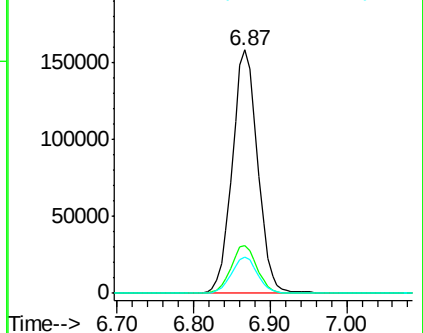
88 14.9 0.0 30.0



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: 48.57 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

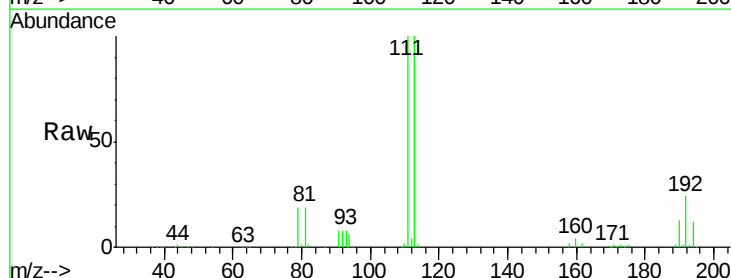
Tgt Ion:113 Resp: 140250

Ion Ratio Lower Upper

113 100

111 102.2 81.4 122.0

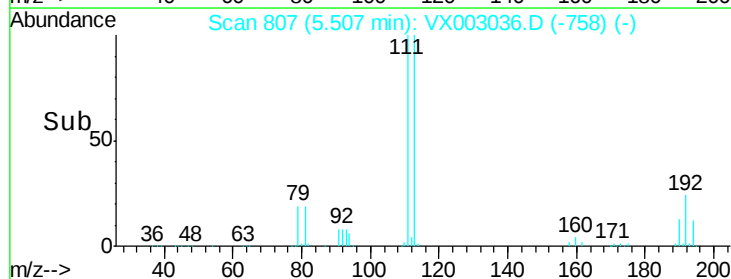
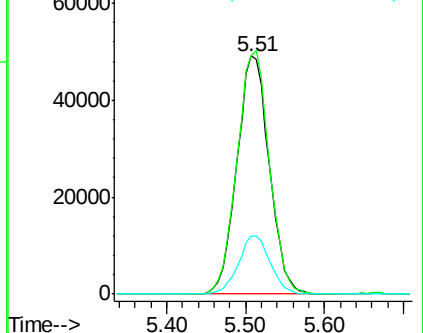
192 24.1 19.1 28.7

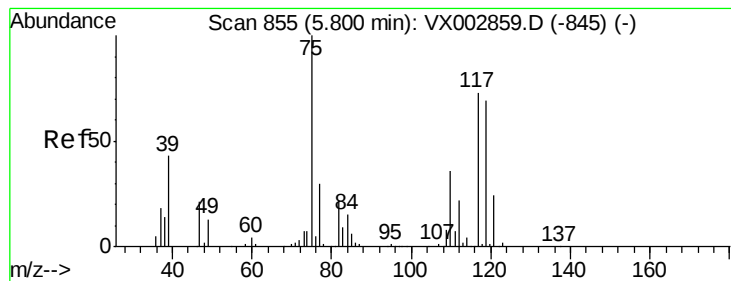


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.25 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

Instrument :

MSVOA_X

ClientSampleId :

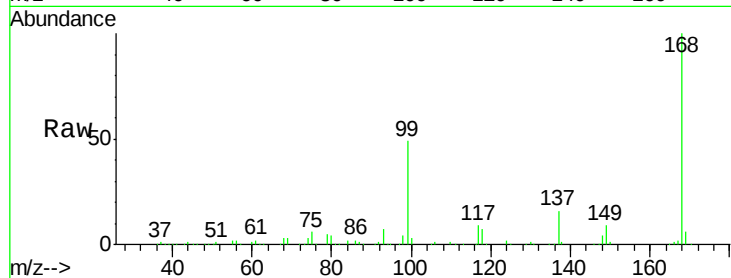
Tot Ion: 75 Resp: 17005

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

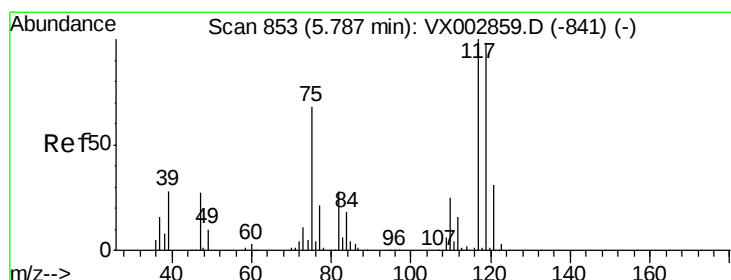
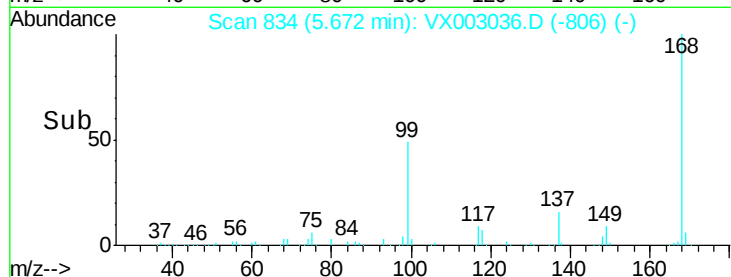
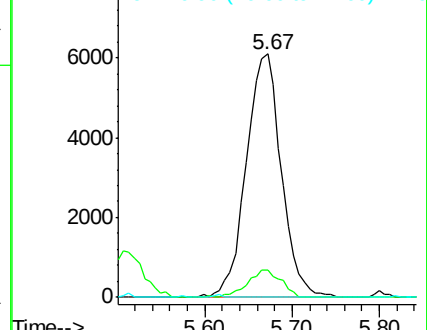
77 0.0 24.3 36.5#



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: 5.35 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

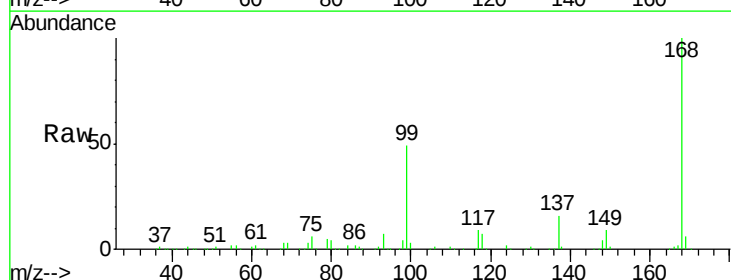
Tgt Ion: 117 Resp: 23469

Ion Ratio Lower Upper

117 100

119 4.4 77.4 116.0#

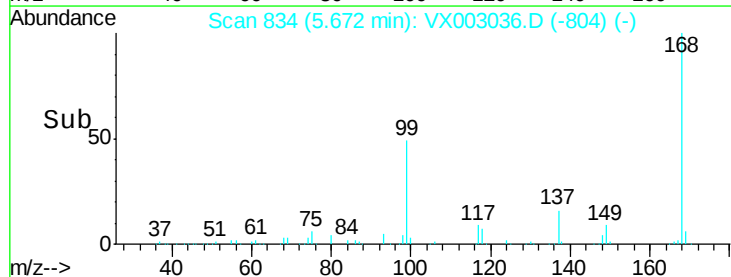
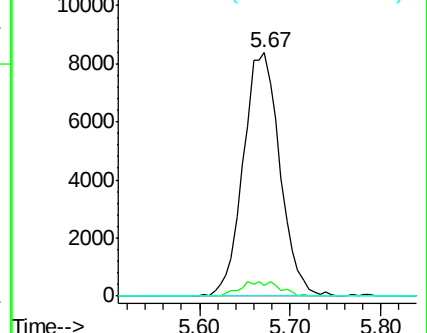
121 0.0 24.4 36.6#

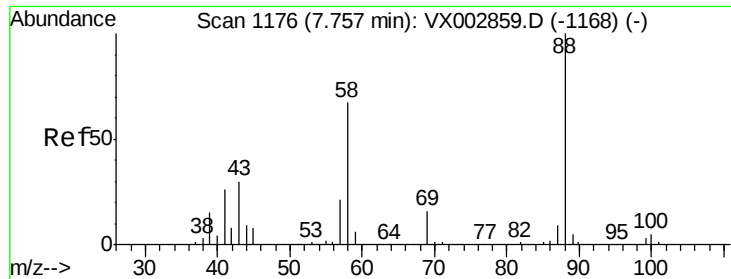


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 0.35 ug/l

RT: 7.84 min Scan# 1189

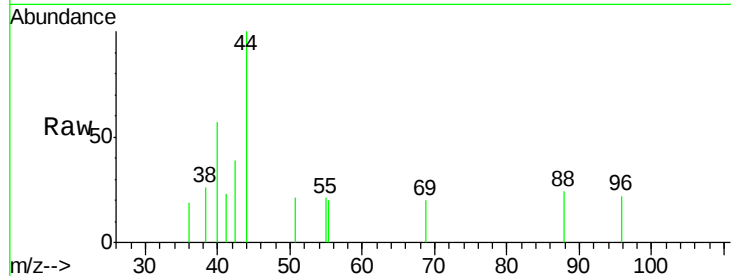
Delta R.T. 0.08 min

Lab File: VX003036.D

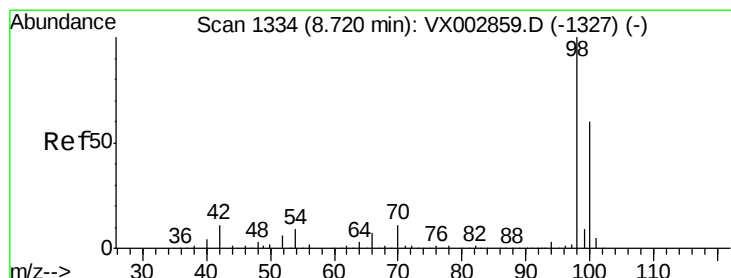
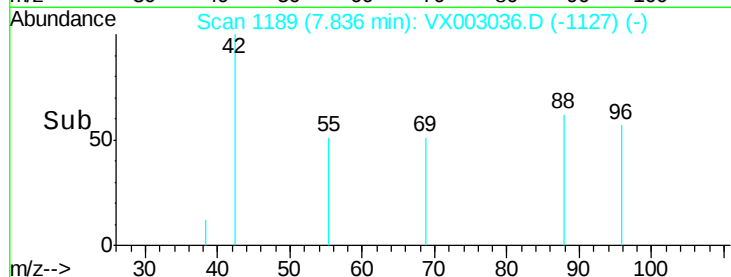
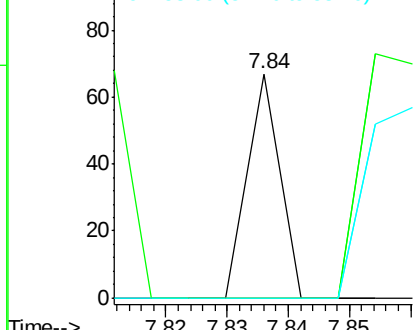
Acq: 29 Jun 2018 18:31

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	88	Resp:	25
Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.8	44.6#
58	0.0	57.1	85.7#



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



#50

Toluene-d8

Concen: 48.41 ug/l

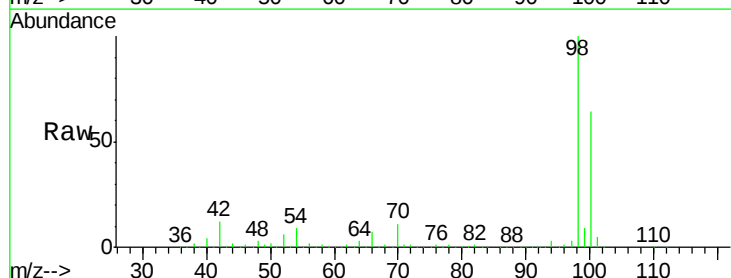
RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

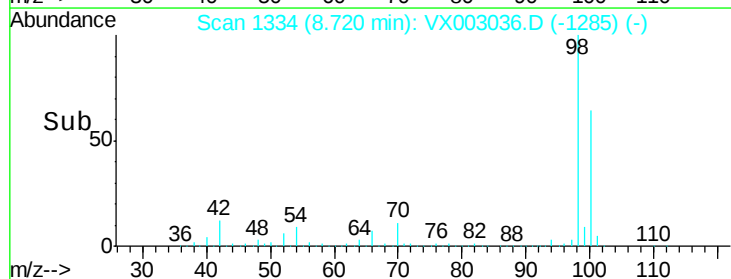
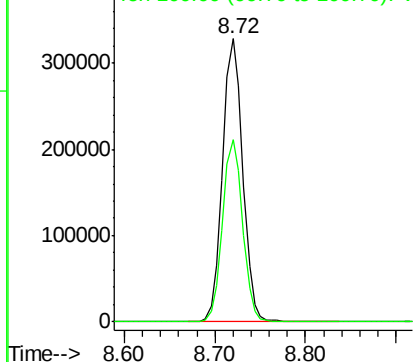
Lab File: VX003036.D

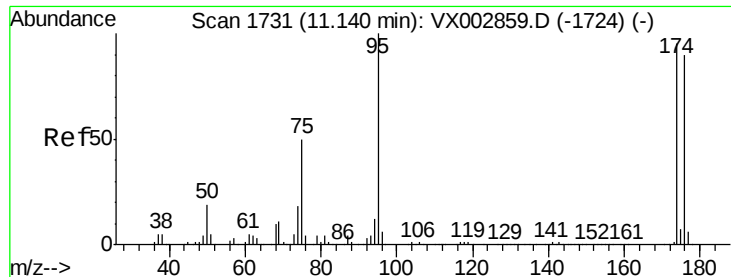
Acq: 29 Jun 2018 18:31

Tgt Ion:	98	Resp:	510492
Ion	Ratio	Lower	Upper
98	100		
100	64.0	50.9	76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0

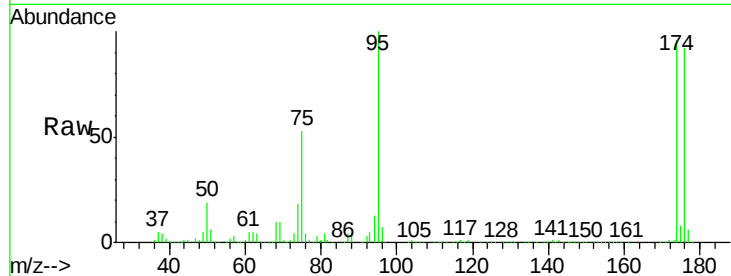




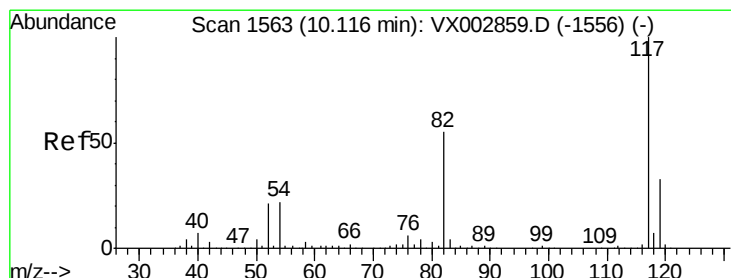
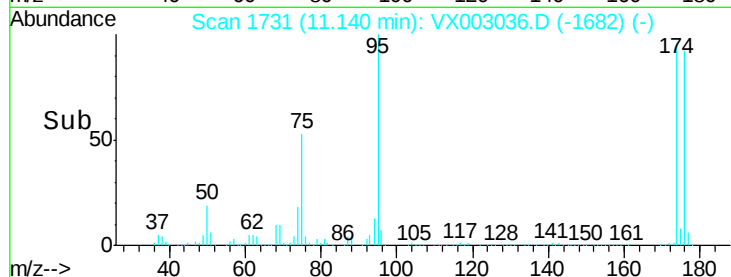
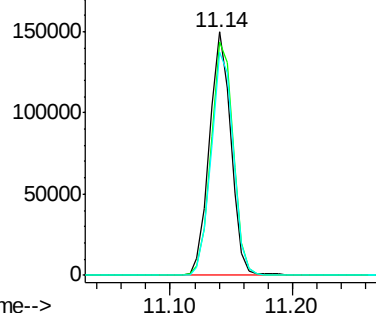
#62
4-Bromofluorobenzene
Concen: 44.41 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003036.D
Acq: 29 Jun 2018 18:31

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	95	Resp	180617
Ion	Ratio	Lower	Upper
95	100		
174	99.0	0.0	187.4
176	94.7	0.0	181.0

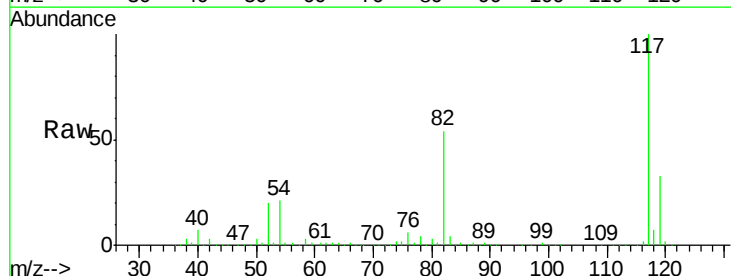


Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

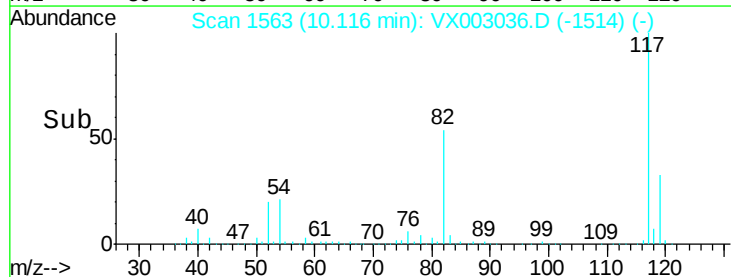
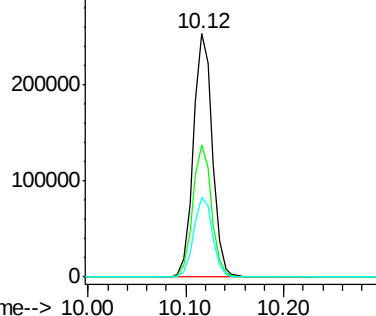


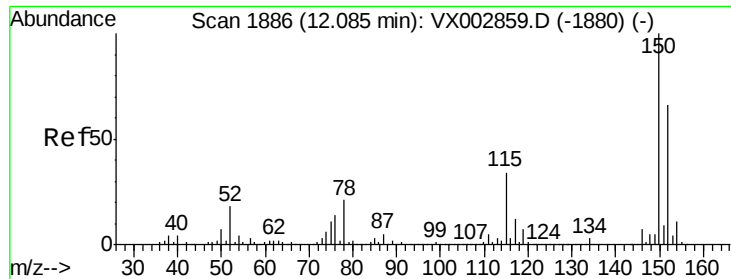
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003036.D
Acq: 29 Jun 2018 18:31

Tgt Ion	117	Resp	340231
Ion	Ratio	Lower	Upper
117	100		
82	54.5	45.0	67.4
119	32.5	25.8	38.6



Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

Instrument :

MSVOA_X

ClientSampled :

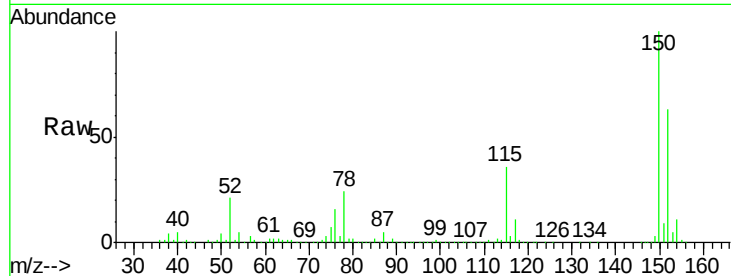
Tot Ion:152 Resp: 192669

Ion Ratio Lower Upper

152 100

115 54.1 40.1 120.2

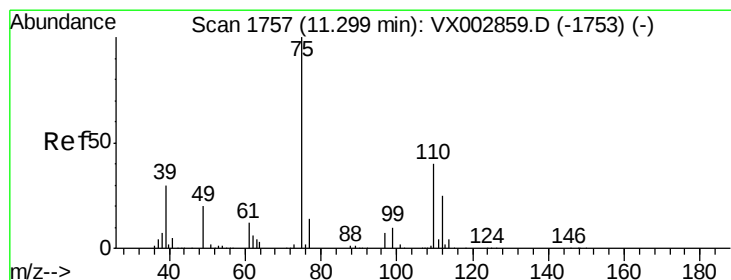
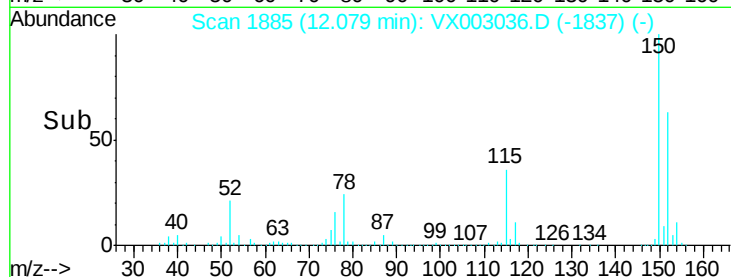
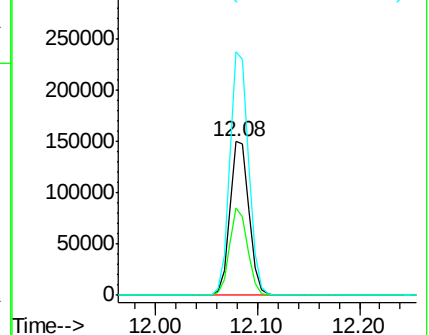
150 156.2 0.0 347.2



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: 26.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003036.D

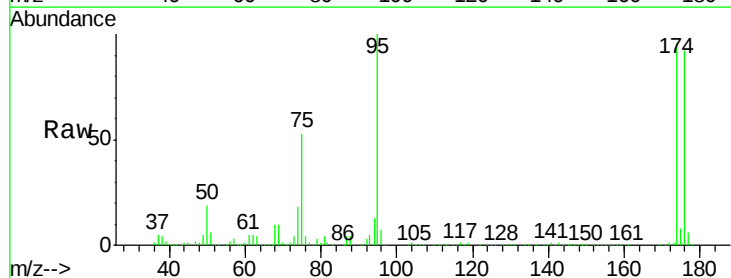
Acq: 29 Jun 2018 18:31

Tgt Ion: 75 Resp: 93865

Ion Ratio Lower Upper

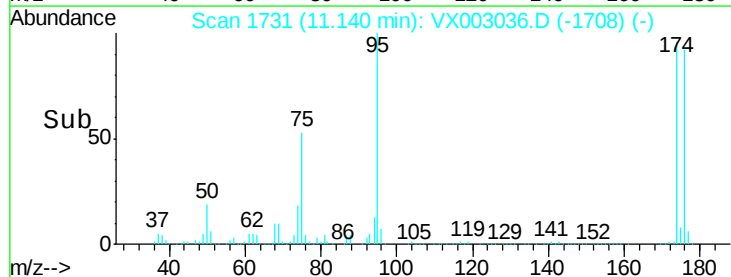
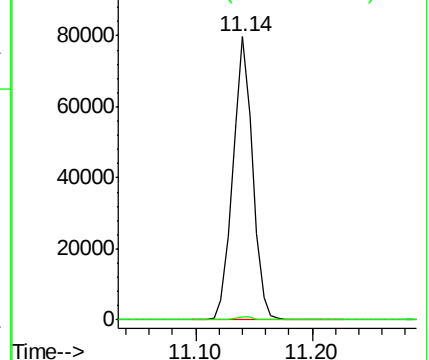
75 100

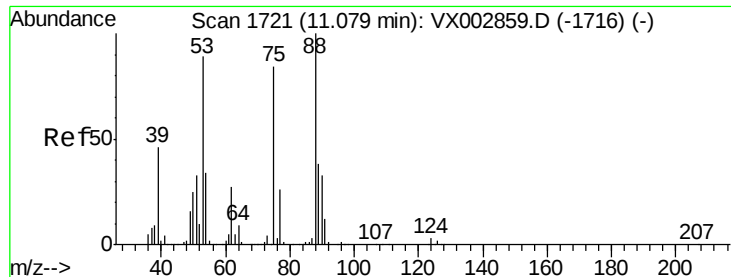
77 1.4 22.8 68.3#



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: 76.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

Instrument :

MSVOA_X

ClientSampled :

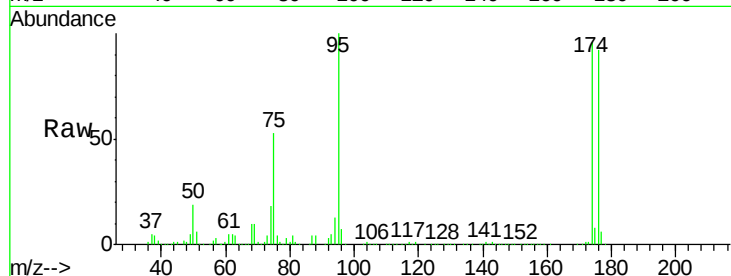
Tot Ion: 75 Resp: 93865

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

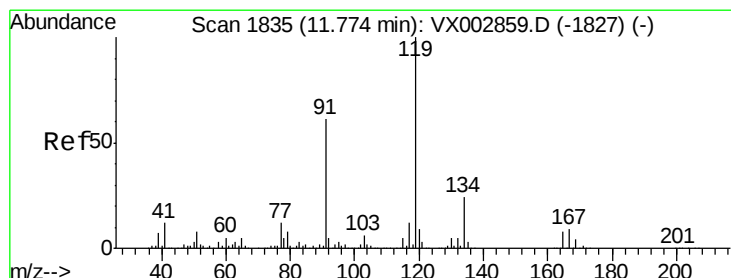
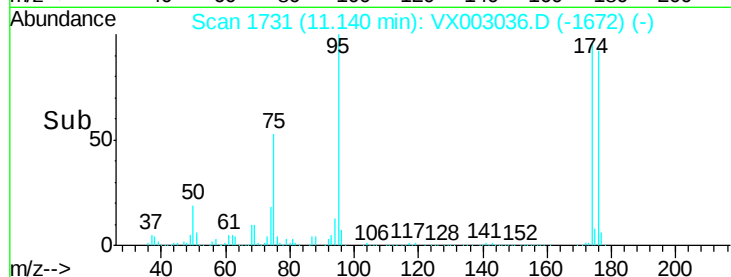
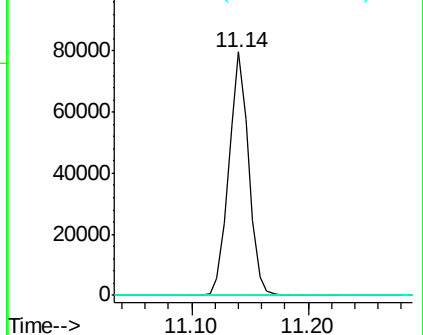
89 0.0 38.2 57.2#



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



#83

tert-Butylbenzene

Concen: 0.21 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX003036.D

Acq: 29 Jun 2018 18:31

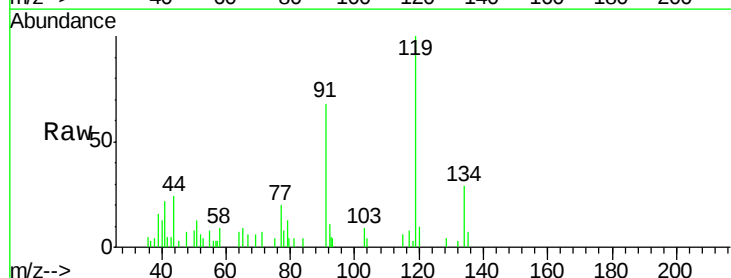
Tgt Ion: 119 Resp: 2221

Ion Ratio Lower Upper

119 100

91 80.1 30.3 90.9

134 24.6 11.7 35.1



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V

