

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002888.D
 Acq On : 26 Jun 2018 04:19
 Operator : JC/MD
 Sample : J3693-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 05:31:05 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	254937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	352475	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	331469	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190167	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	172425	48.93	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.86%		
35) Dibromofluoromethane	5.51	113	136857	49.03	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.06%		
50) Toluene-d8	8.72	98	504269	49.47	ug/l	0.00
Spiked Amount 50.000			Recovery =	98.94%		
62) 4-Bromofluorobenzene	11.14	95	179949	45.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.56%		

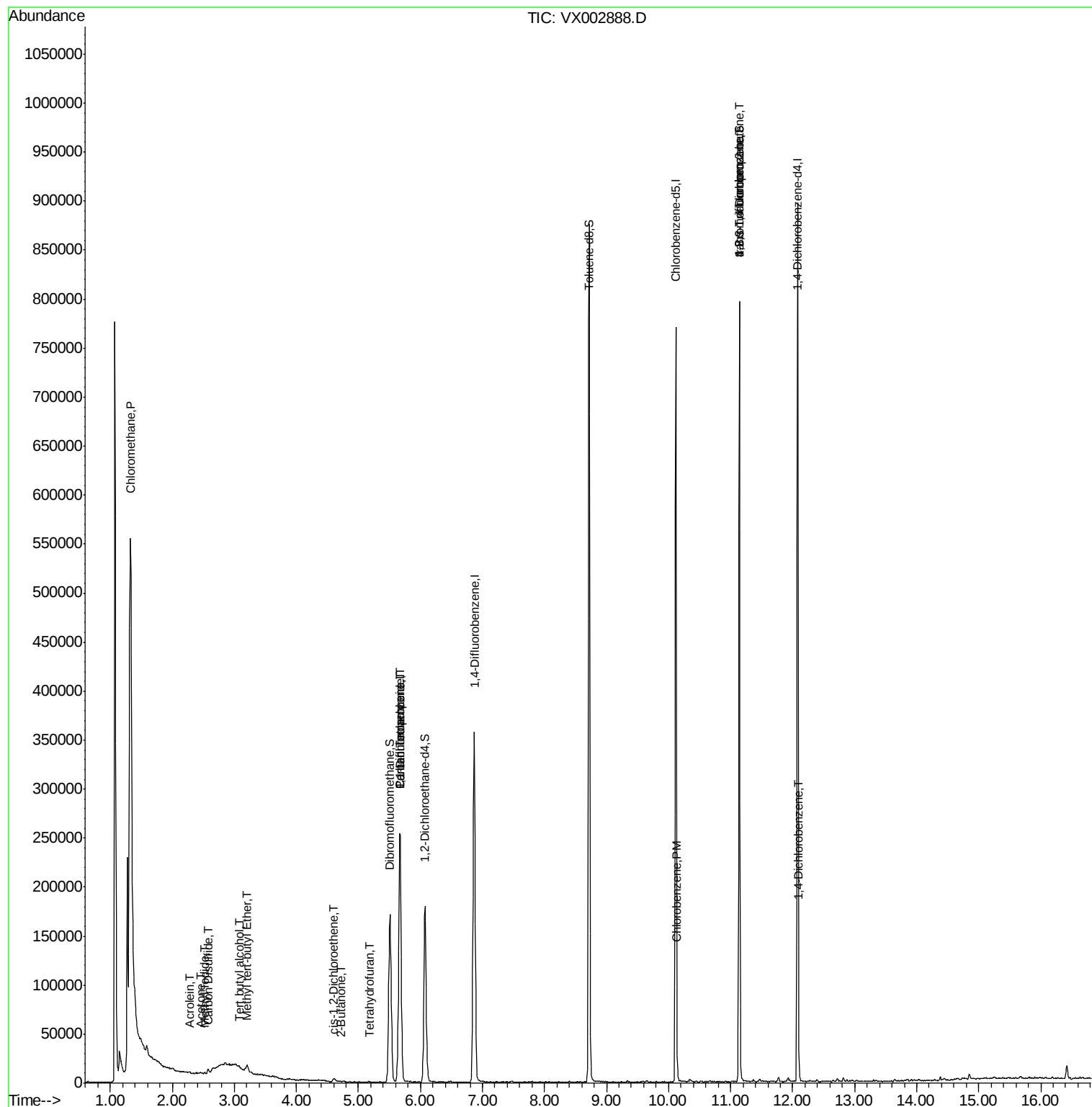
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.36	85	20	Below Cal	#	43
3) Chloromethane	1.32	50	28037	10.93	ug/l	# 47
5) Bromomethane	1.65	94	1048	Below Cal		96
6) Chloroethane	1.94	64	905	Below Cal	#	43
10) Methyl Iodide	2.52	142	1540	6.70	ug/l	# 84
11) Tert butyl alcohol	3.07	59	542	0.77	ug/l	# 79
13) Acrolein	2.29	56	150	4.61	ug/l	# 70
16) Acetone	2.45	43	1653	1.13	ug/l	95
17) Carbon Disulfide	2.57	76	8185	1.22	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	6197	0.69	ug/l	92
25) 2-Butanone	4.71	43	514	0.24	ug/l	# 52
27) cis-1,2-Dichloroethene	4.60	96	629	0.20	ug/l	# 1
29) Tetrahydrofuran	5.18	42	357	0.26	ug/l	# 69
36) 1,1-Dichloropropene	5.67	75	17044	4.41	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	23462	5.53	ug/l	# 16
65) Chlorobenzene	10.14	112	2000	0.24	ug/l	100
76) 1,2,3-Trichloropropane	11.14	75	95440	27.71	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	95440	78.35	ug/l	# 7
88) 1,4-Dichlorobenzene	12.10	146	1736	0.25	ug/l	# 38

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

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QLast Update : Mon Jun 25 14:38:05 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

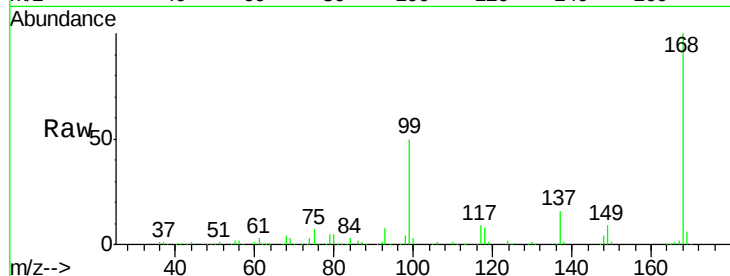
ClientSampleId :

Tot Ion:168 Resp: 254937

Ion Ratio Lower Upper

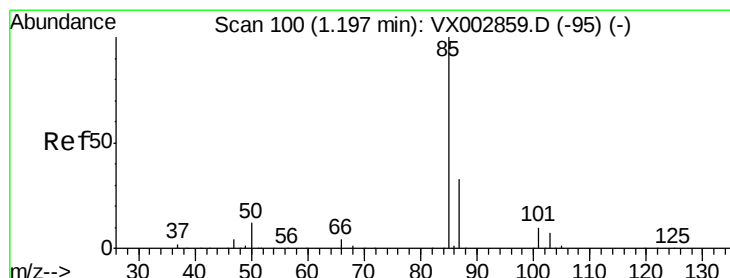
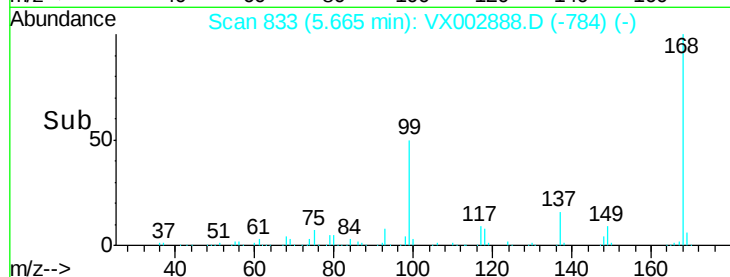
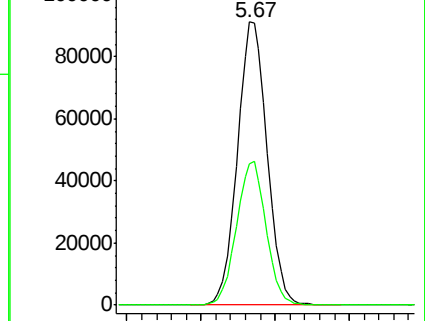
168 100

99 50.0 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: 1.36 min Scan# 127

Delta R.T. 0.17 min

Lab File: VX002888.D

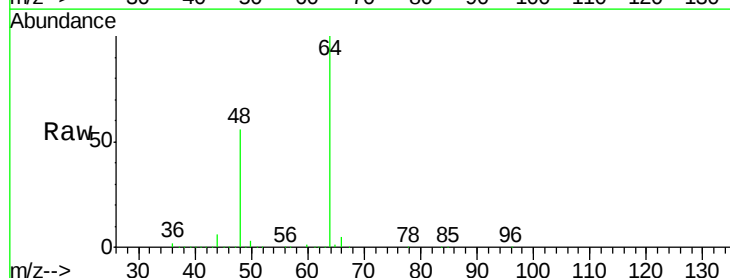
Acq: 26 Jun 2018 04:19

Tgt Ion: 85 Resp: 20

Ion Ratio Lower Upper

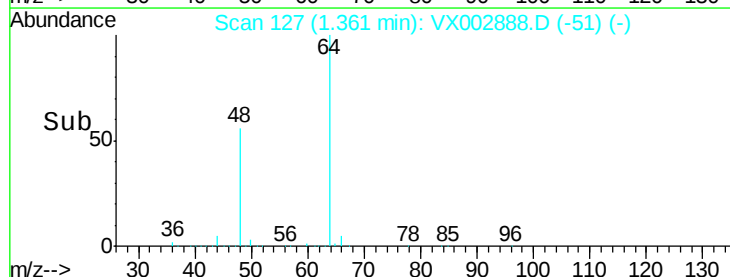
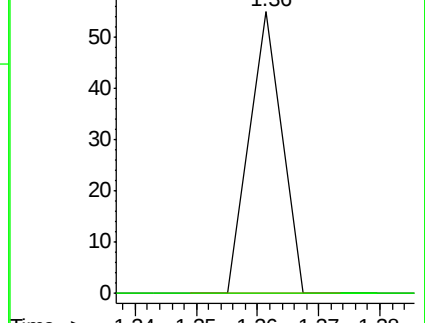
85 100

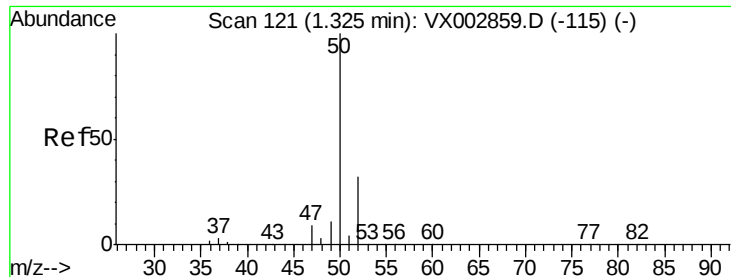
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 10.93 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

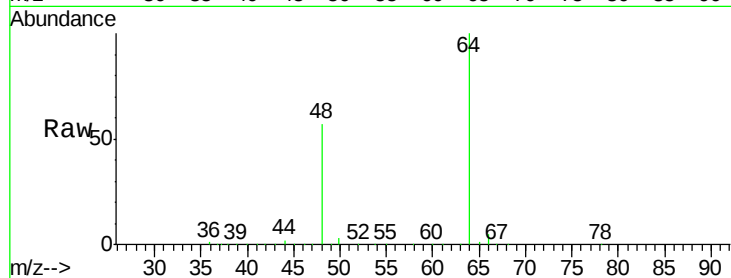
ClientSampled :

Tot Ion: 50 Resp: 28037

Ion Ratio Lower Upper

50 100

52 2.5 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

10000

8000

6000

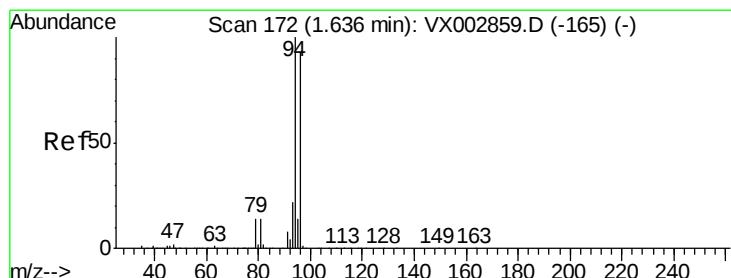
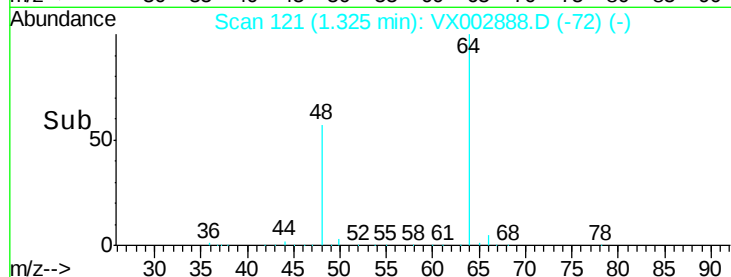
4000

2000

0

Time-->

1.20 1.30 1.40 1.50



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002888.D

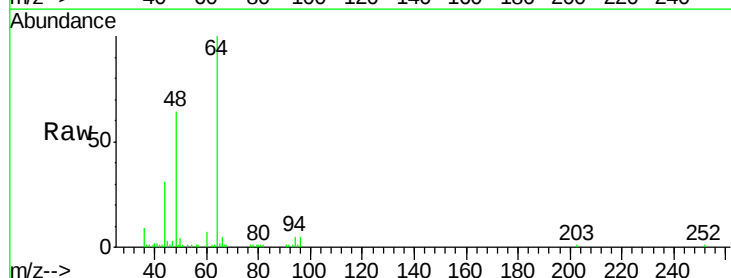
Acq: 26 Jun 2018 04:19

Tgt Ion: 94 Resp: 1048

Ion Ratio Lower Upper

94 100

96 97.9 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

500

400

300

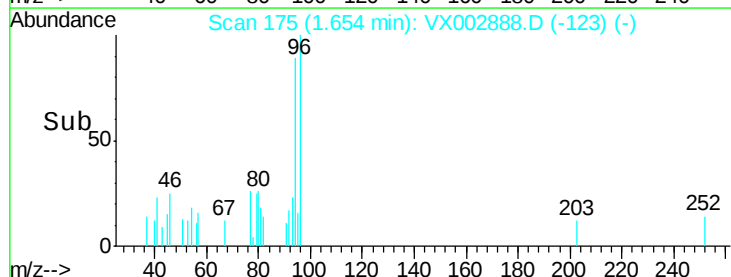
200

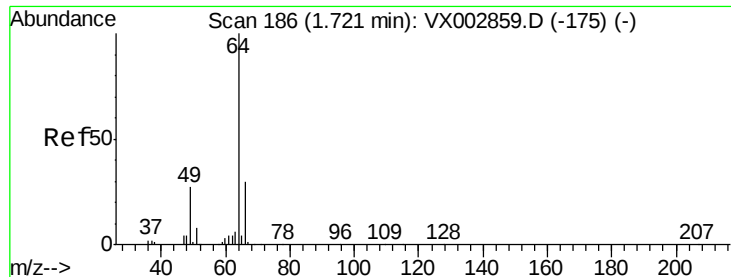
100

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: Below Cal

RT: 1.94 min Scan# 222

Delta R.T. 0.22 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

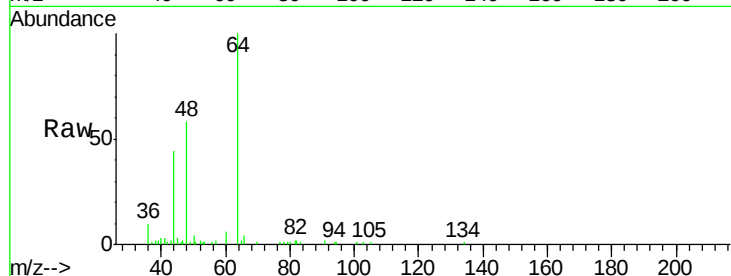
ClientSampleId :

Tot Ion: 64 Resp: 905

Ion Ratio Lower Upper

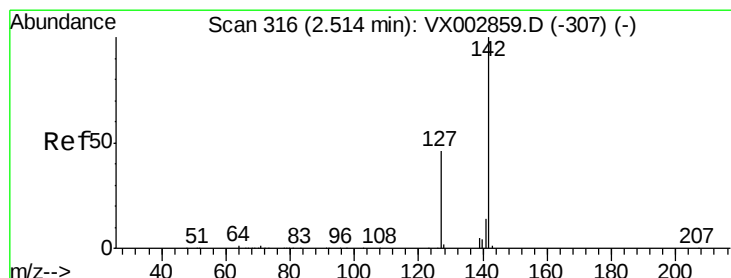
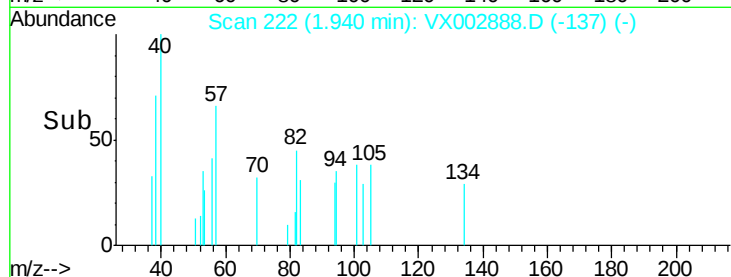
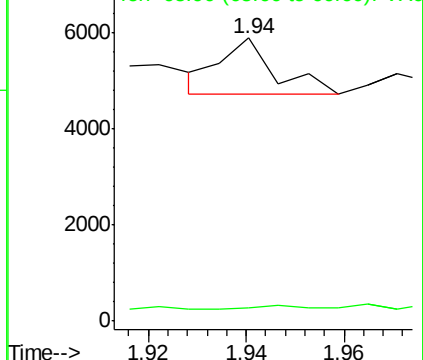
64 100

66 0.4 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 6.70 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

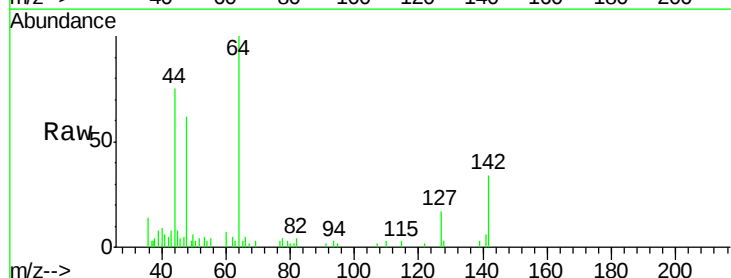
Tgt Ion: 142 Resp: 1540

Ion Ratio Lower Upper

142 100

127 56.9 36.6 55.0#

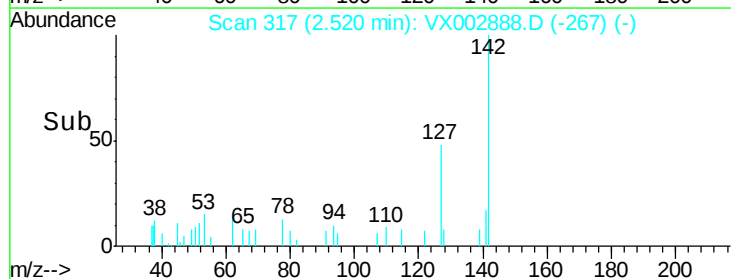
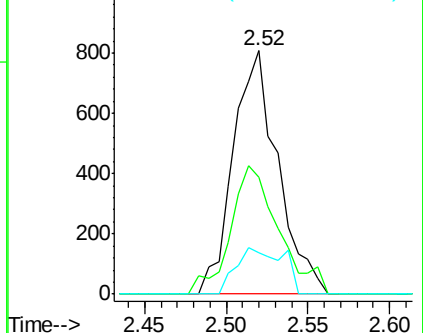
141 20.0 11.3 16.9#

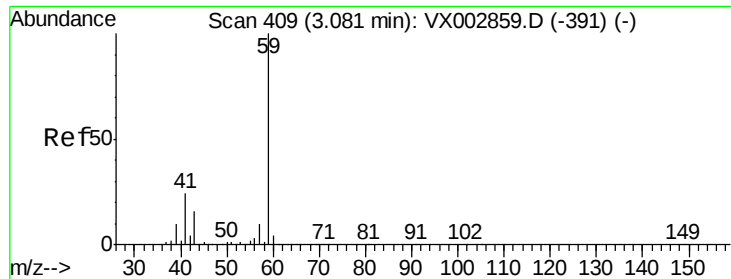


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



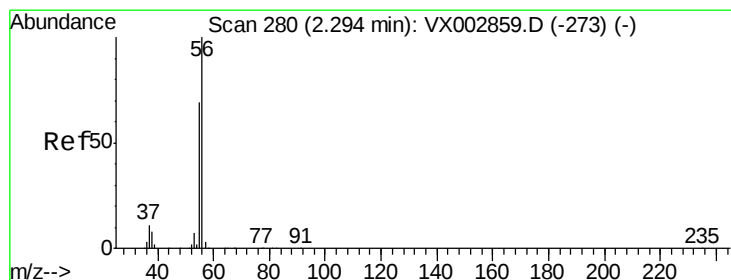
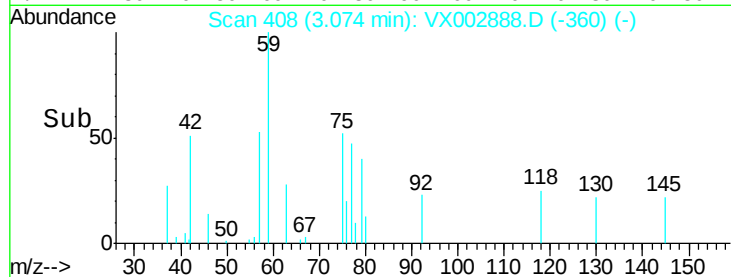
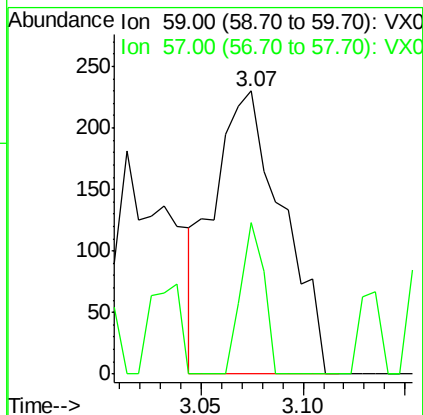
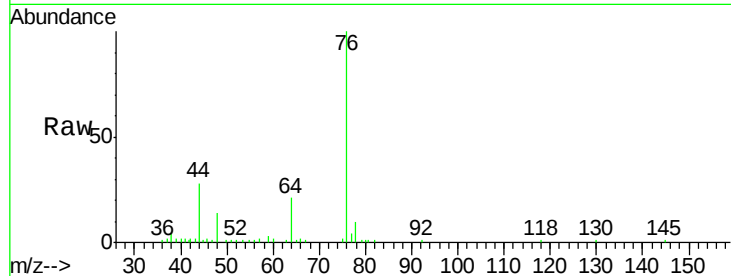


#11

Tert butyl alcohol
Concen: 0.77 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX002888.D
Acq: 26 Jun 2018 04:19

Instrument :
MSVOA_X
ClientSampled :

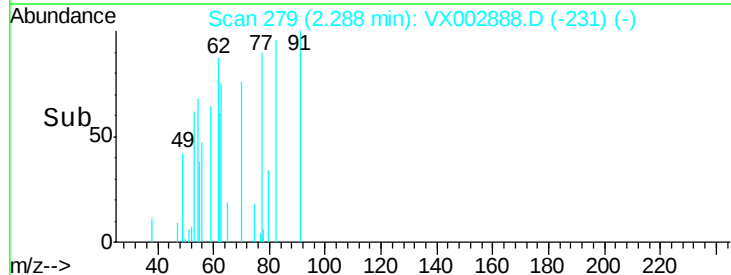
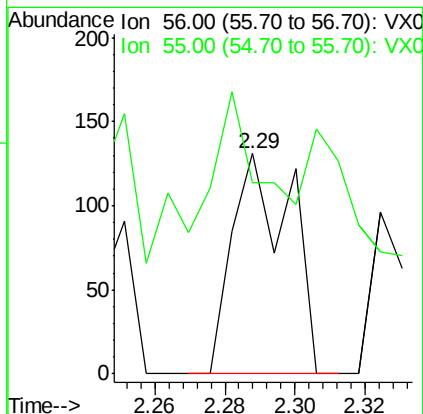
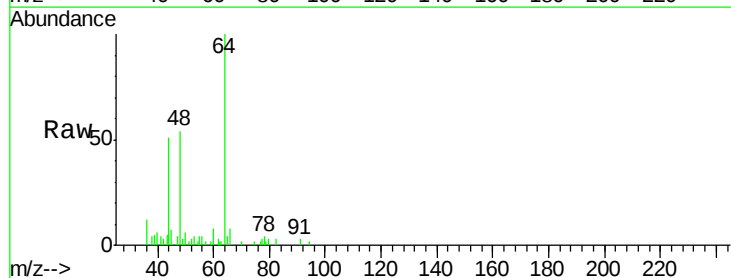
Tot Ion: 59 Resp: 542
Ion Ratio Lower Upper
59 100
57 17.9 8.2 12.2#

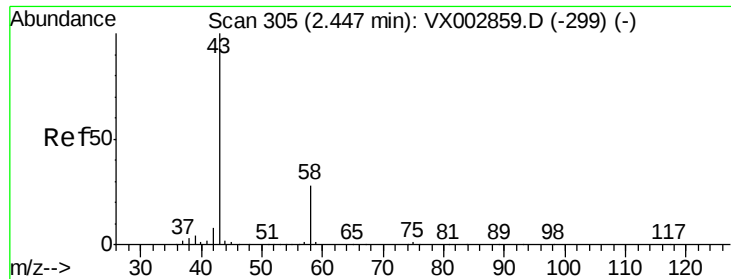


#13

Acrolein
Concen: 4.61 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002888.D
Acq: 26 Jun 2018 04:19

Tgt Ion: 56 Resp: 150
Ion Ratio Lower Upper
56 100
55 46.0 57.0 85.4#





#16

Acetone

Concen: 1.13 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

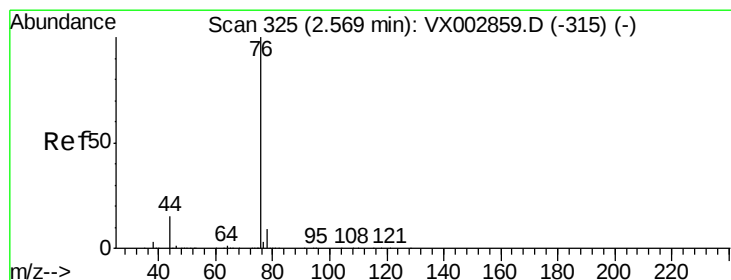
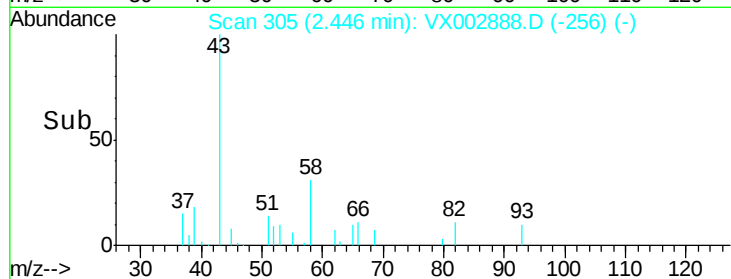
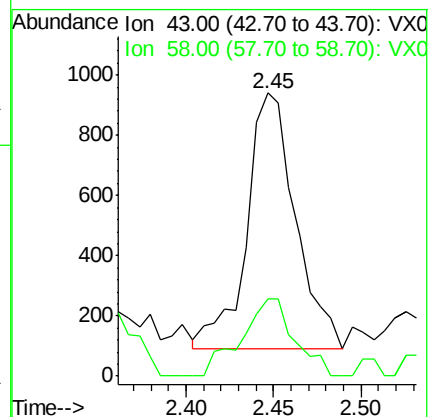
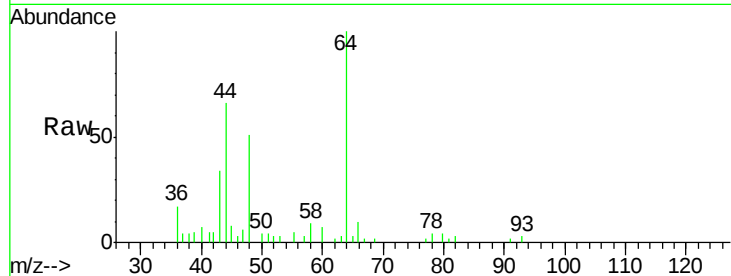
ClientSampled :

Tot Ion: 43 Resp: 1653

Ion Ratio Lower Upper

43 100

58 30.2 22.1 33.1



#17

Carbon Disulfide

Concen: 1.22 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002888.D

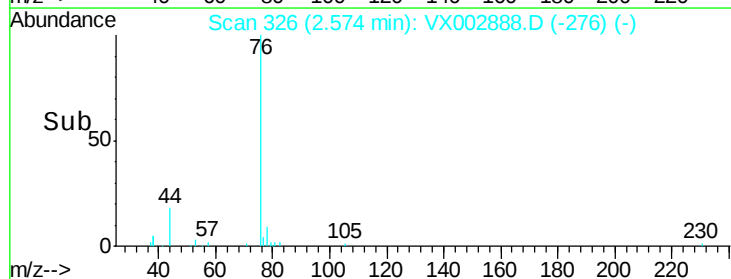
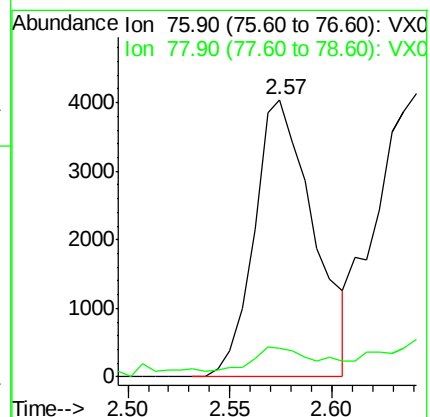
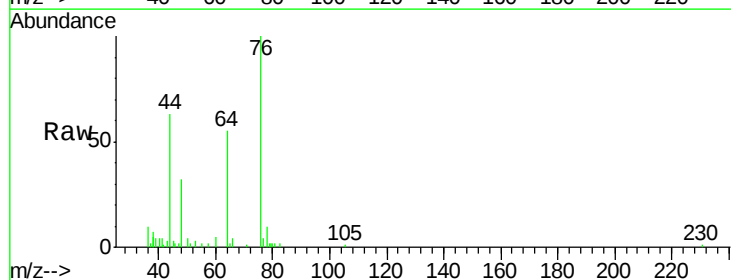
Acq: 26 Jun 2018 04:19

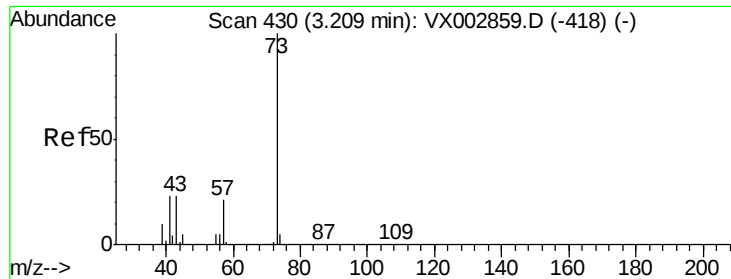
Tgt Ion: 76 Resp: 8185

Ion Ratio Lower Upper

76 100

78 7.7 6.9 10.3

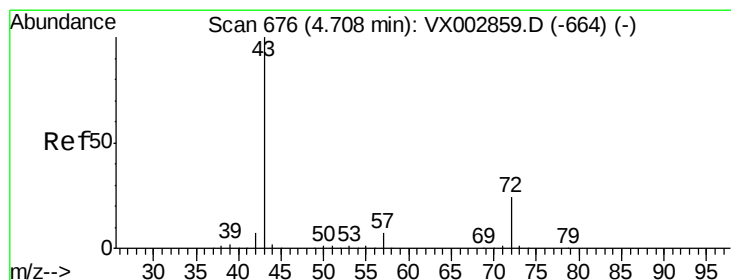
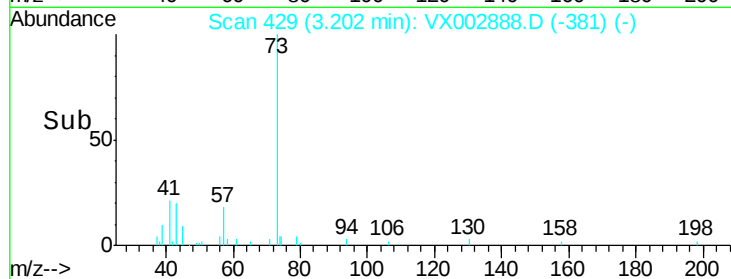
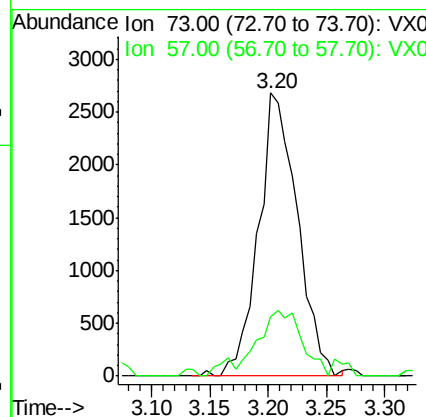
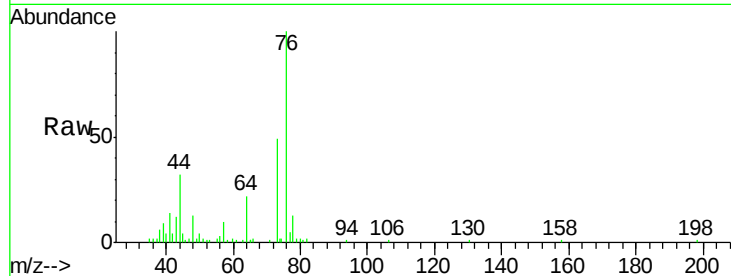




#19
Methvl tert-butvl Ether
Concen: 0.69 ug/l
RT: 3.20 min Scan# 429
Delta R.T. -0.01 min
Lab File: VX002888.D
Acq: 26 Jun 2018 04:19

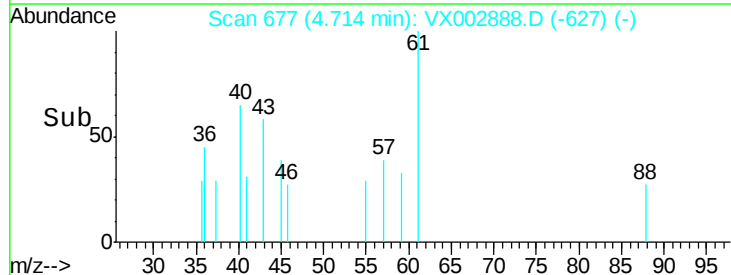
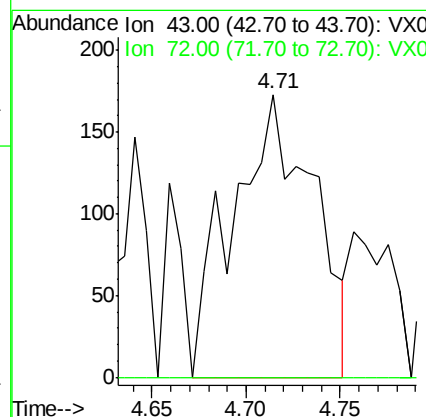
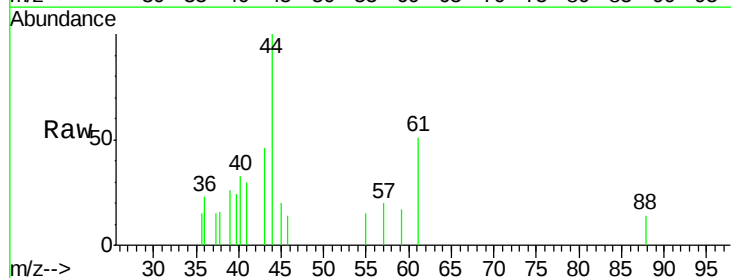
Instrument :
MSVOA_X
ClientSampled :

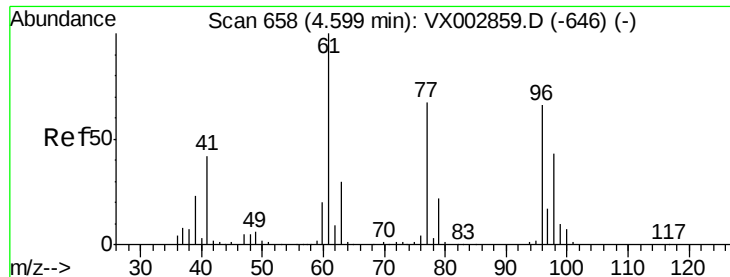
Tot Ion: 73 Resp: 6197
Ion Ratio Lower Upper
73 100
57 18.5 17.7 26.5



#25
2-Butanone
Concen: 0.24 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX002888.D
Acq: 26 Jun 2018 04:19

Tgt Ion: 43 Resp: 514
Ion Ratio Lower Upper
43 100
72 0.0 18.5 27.7#





#27

cis-1,2-Dichloroethene

Concen: 0.20 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

ClientSampled :

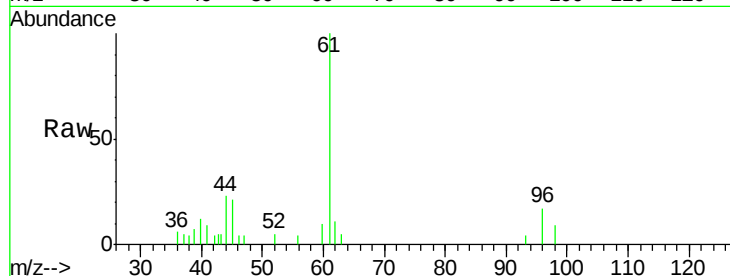
Tot Ion: 96 Resp: 629

Ion Ratio Lower Upper

96 100

61 1078.7 0.0 330.2#

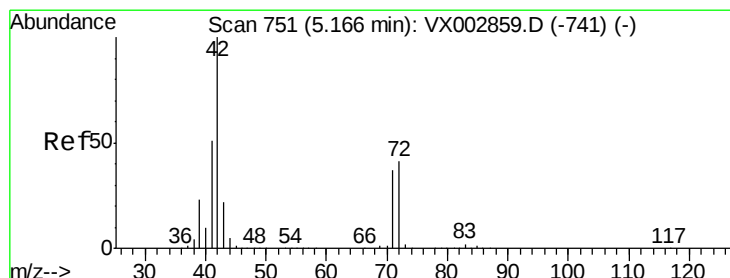
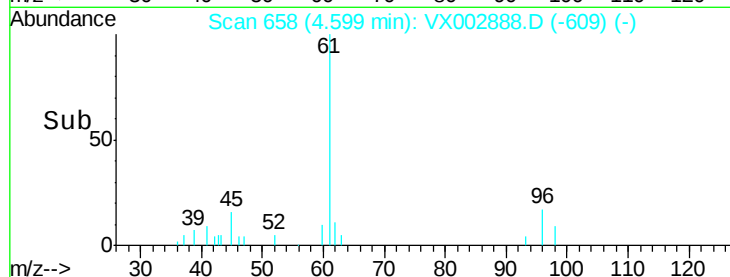
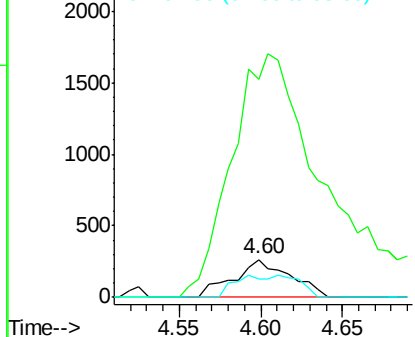
98 64.7 0.0 130.2



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: 0.26 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.02 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

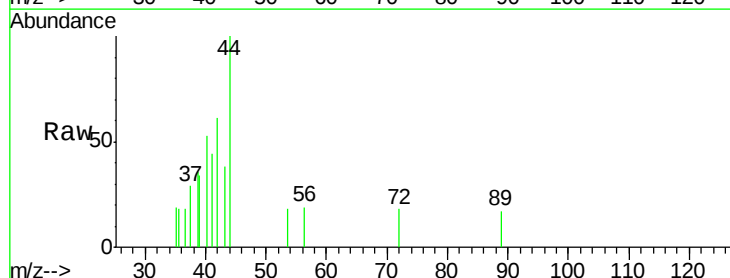
Tgt Ion: 42 Resp: 357

Ion Ratio Lower Upper

42 100

72 12.0 32.0 48.0#

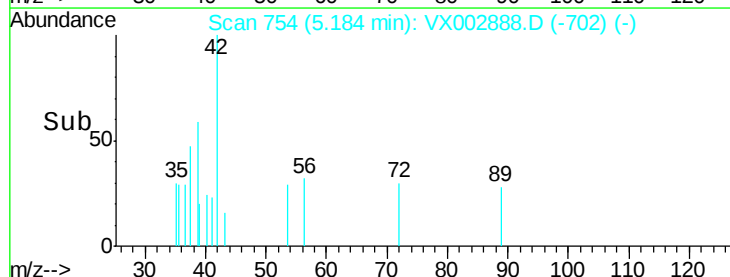
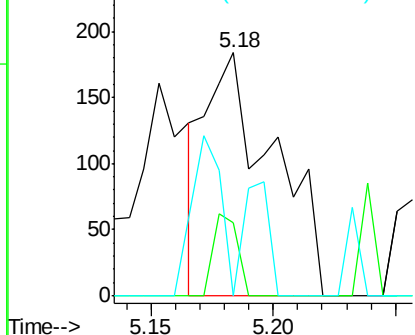
71 28.0 30.1 45.1#



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

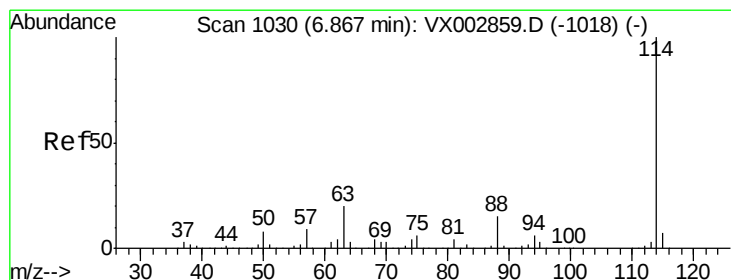
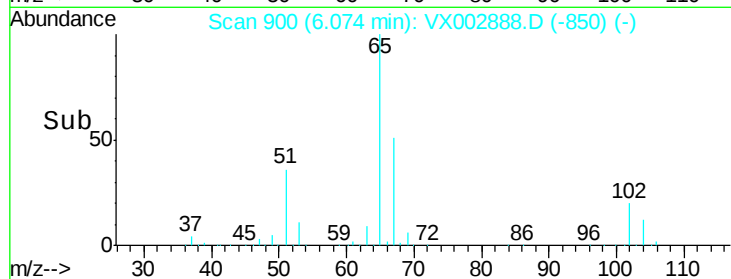
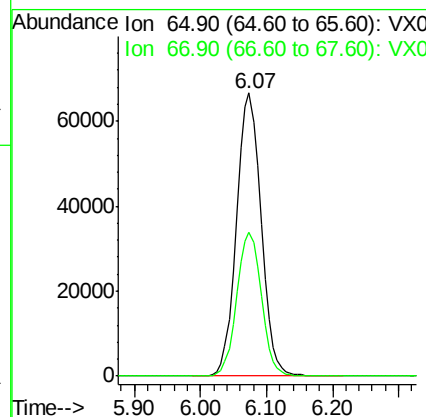
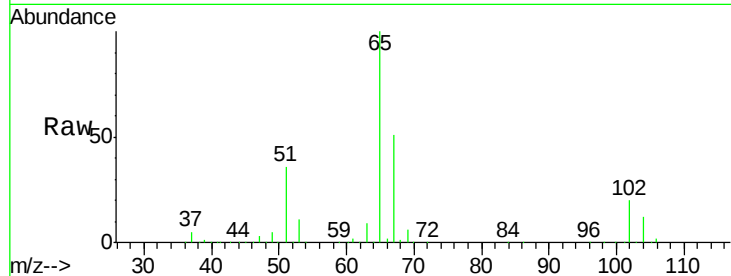




#33
 1,2-Dichloroethane-d4
 Concen: 48.93 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX002888.D
 Acq: 26 Jun 2018 04:19

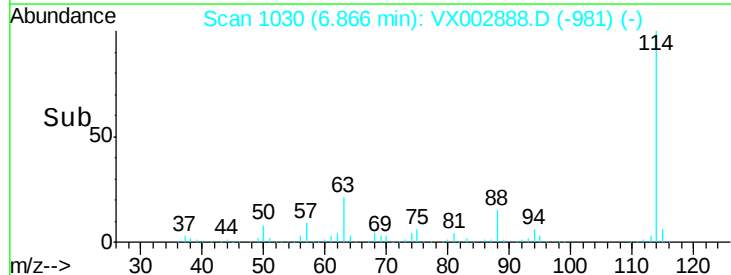
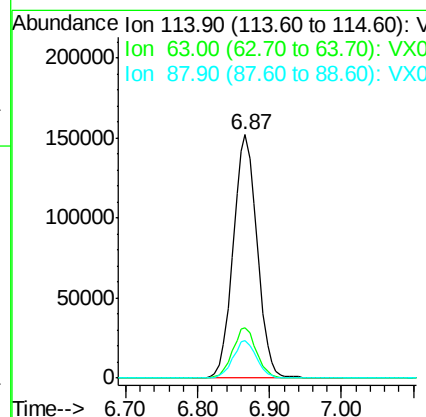
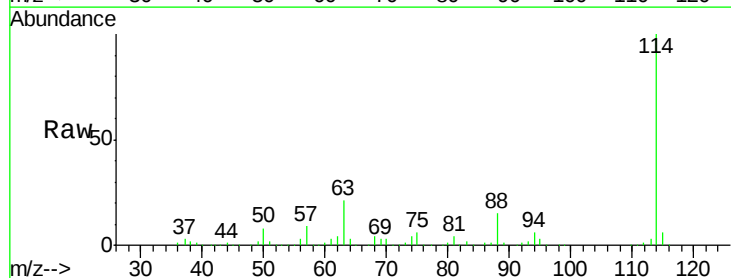
Instrument :
 MSVOA_X
 ClientSampleId :

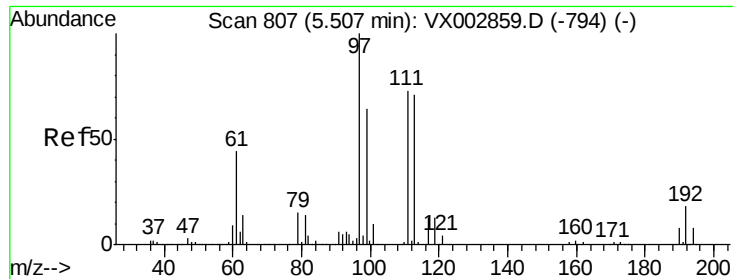
Tot Ion: 65 Resp: 172425
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002888.D
 Acq: 26 Jun 2018 04:19

Tgt Ion: 114 Resp: 352475
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 41.4
 88 15.3 0.0 30.0

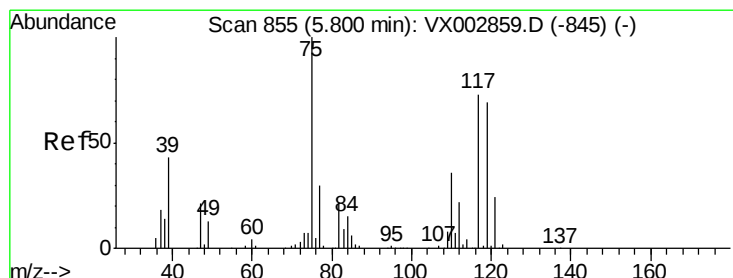
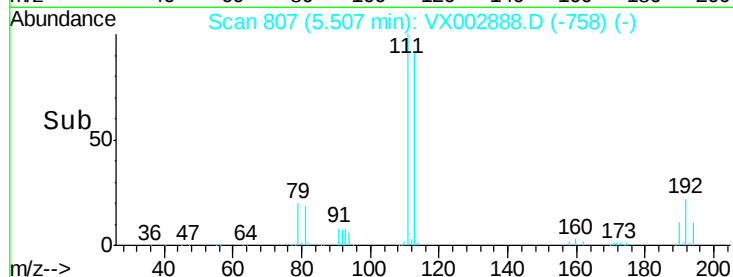
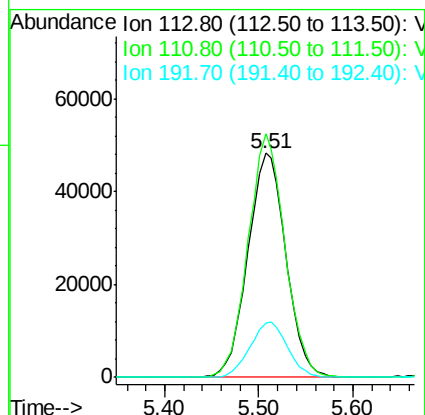
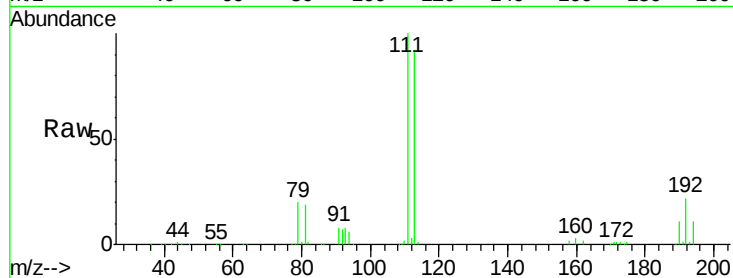




#35
Dibromofluoromethane
Concen: 49.03 ug/l
RT: 5.51 min Scan# 807
Delta R.T. -0.00 min
Lab File: VX002888.D
Acq: 26 Jun 2018 04:19

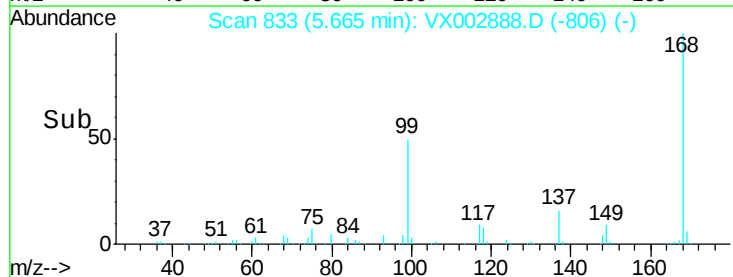
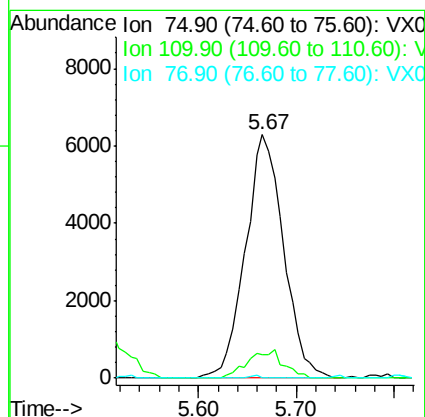
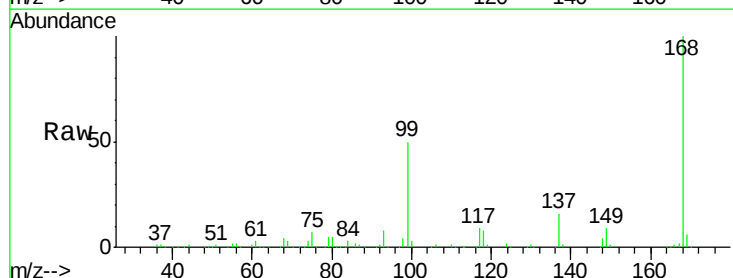
Instrument :
MSVOA_X
ClientSampleId :

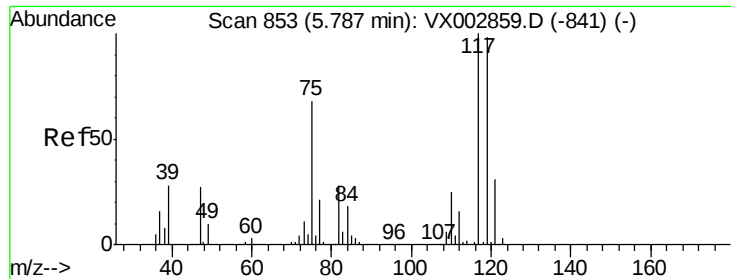
Tot Ion:113 Resp: 136857
Ion Ratio Lower Upper
113 100
111 105.1 81.4 122.0
192 24.5 19.1 28.7



#36
1,1-Dichloropropene
Concen: 4.41 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.13 min
Lab File: VX002888.D
Acq: 26 Jun 2018 04:19

Tgt Ion: 75 Resp: 17044
Ion Ratio Lower Upper
75 100
110 10.8 18.1 54.4#
77 0.3 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 5.53 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

ClientSampleId :

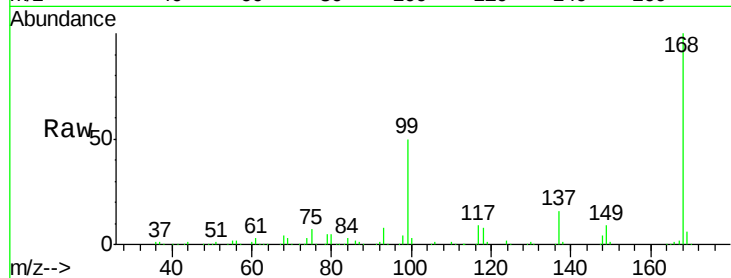
Tot Ion:117 Resp: 23462

Ion Ratio Lower Upper

117 100

119 5.7 77.4 116.0#

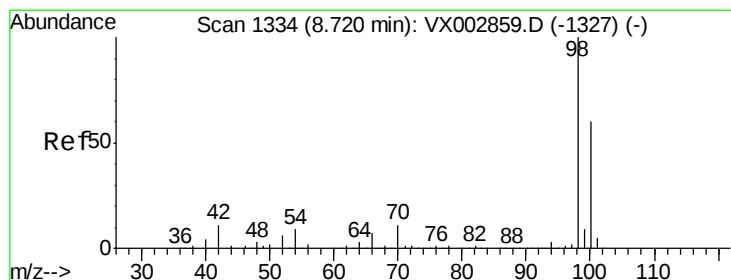
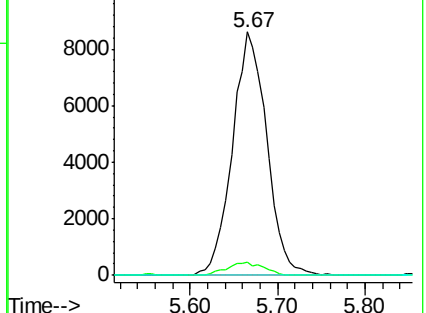
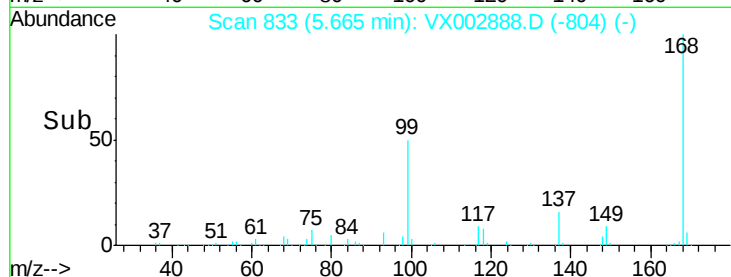
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 49.47 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002888.D

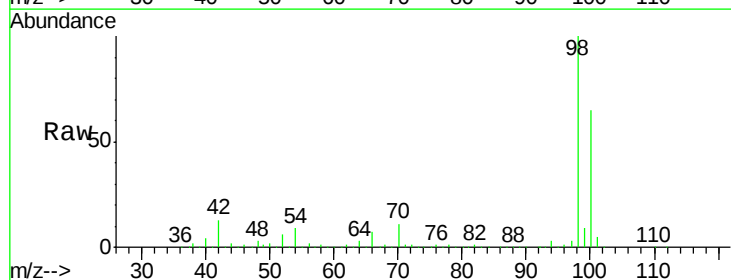
Acq: 26 Jun 2018 04:19

Tgt Ion: 98 Resp: 504269

Ion Ratio Lower Upper

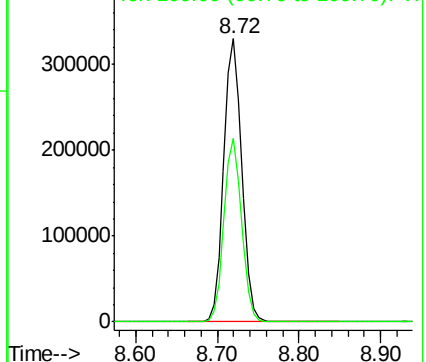
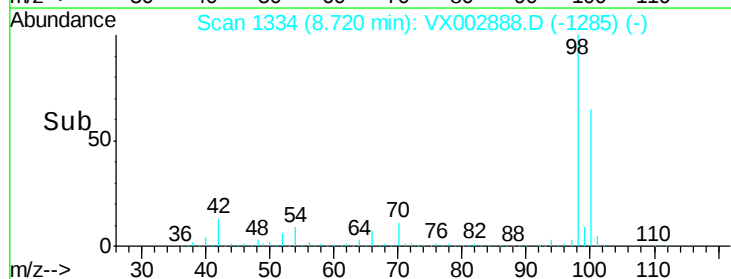
98 100

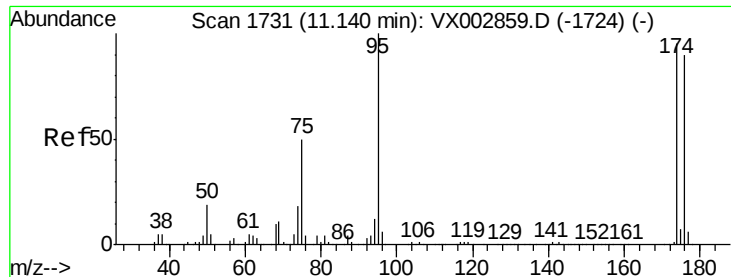
100 63.6 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

ClientSampleId :

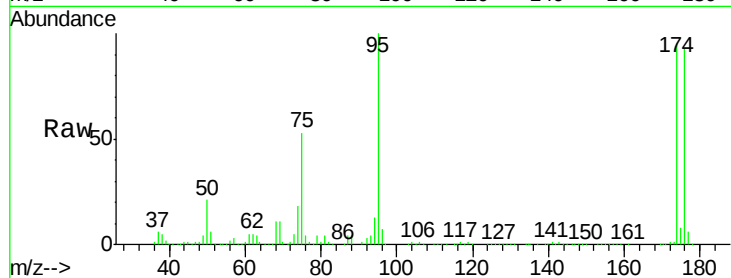
Tot Ion: 95 Resp: 179949

Ion Ratio Lower Upper

95 100

174 97.2 0.0 187.4

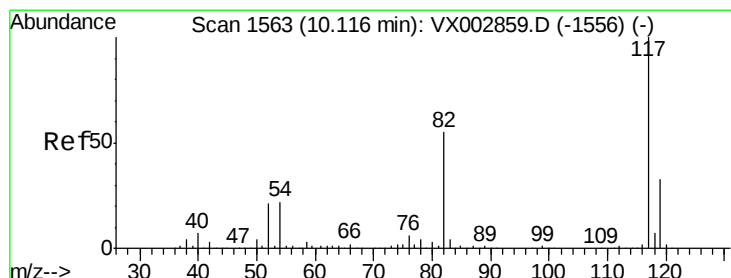
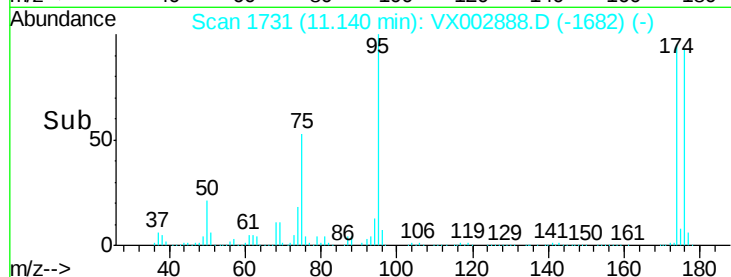
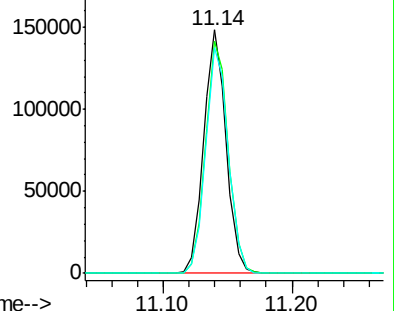
176 94.4 0.0 181.0



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

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): 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: VX002888.D

Acq: 26 Jun 2018 04:19

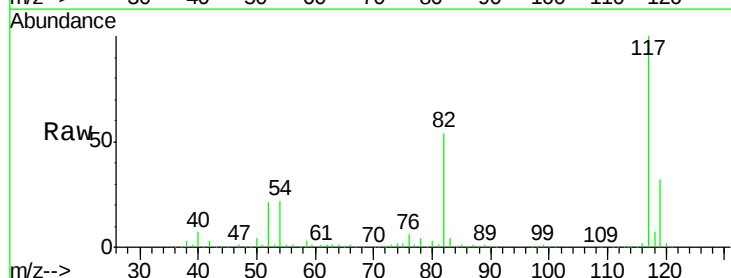
Tgt Ion: 117 Resp: 331469

Ion Ratio Lower Upper

117 100

82 53.6 45.0 67.4

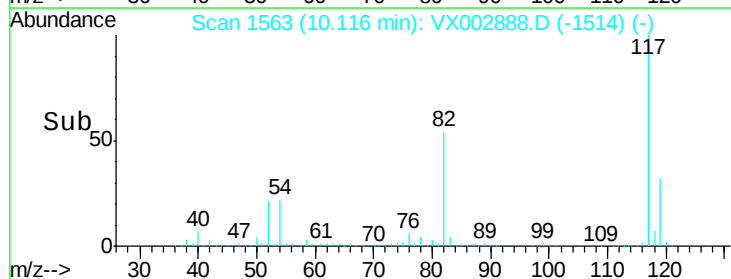
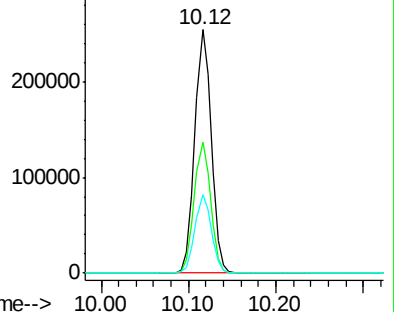
119 32.3 25.8 38.6

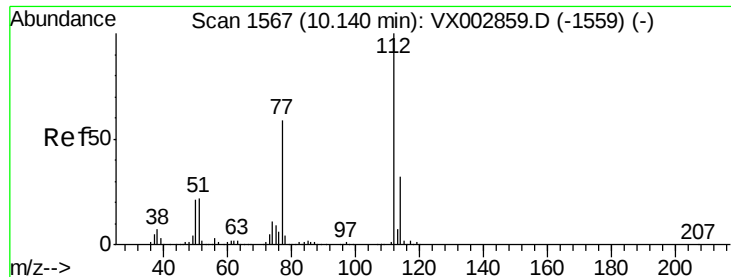


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)





#65

Chlorobenzene

Concen: 0.24 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

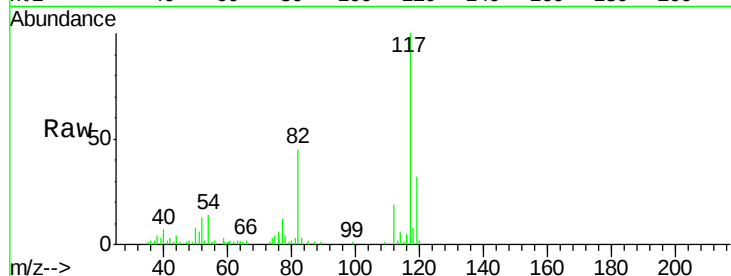
ClientSampleId :

Tot Ion:112 Resp: 2000

Ion Ratio Lower Upper

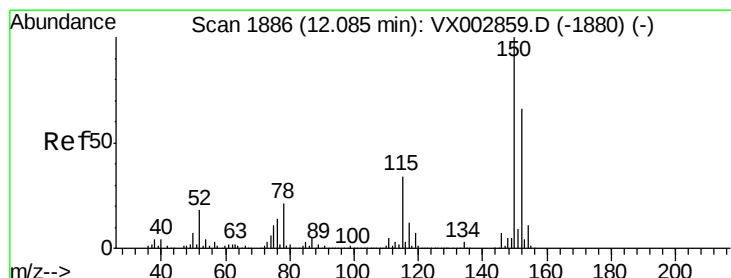
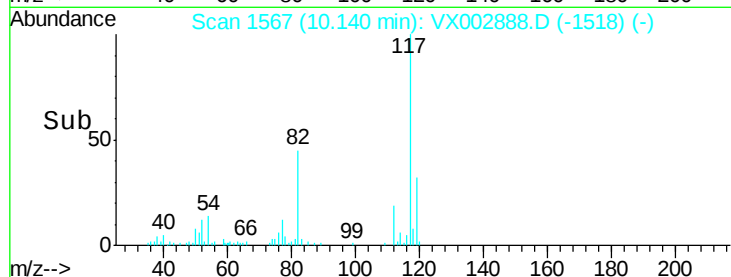
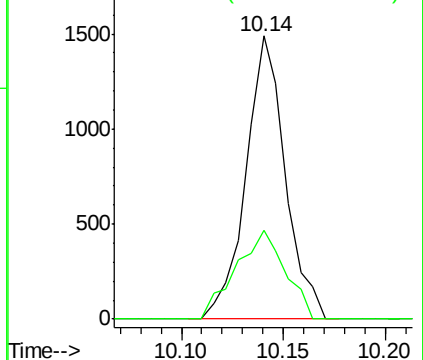
112 100

114 31.6 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

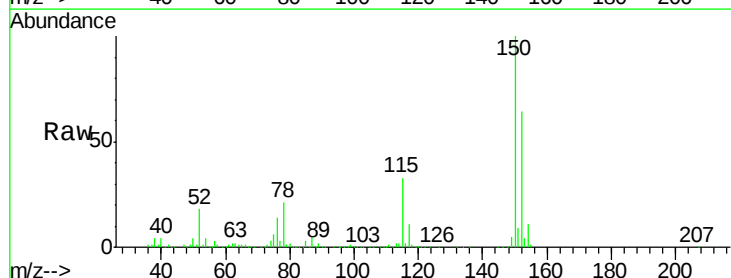
Tgt Ion:152 Resp: 190167

Ion Ratio Lower Upper

152 100

115 54.9 40.1 120.2

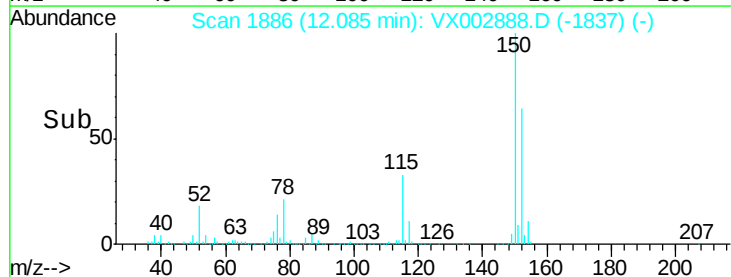
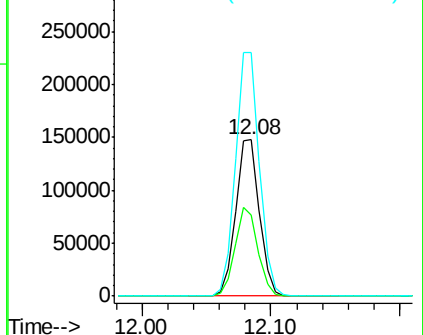
150 156.5 0.0 347.2

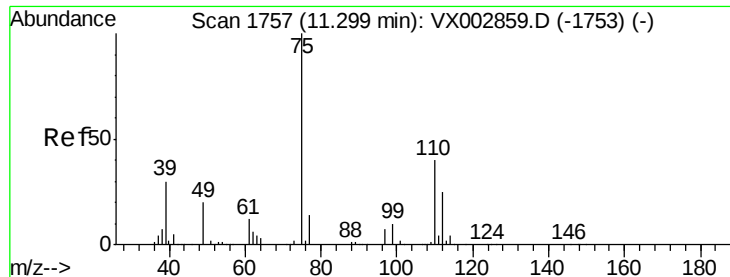


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.71 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

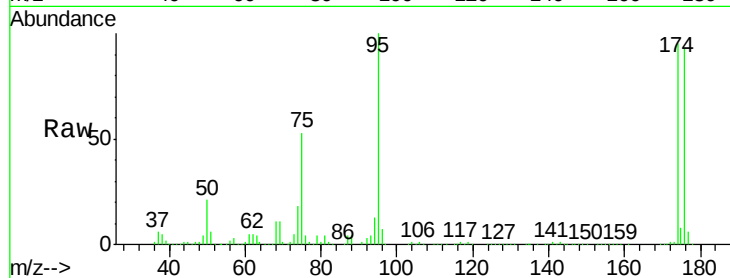
ClientSampleId :

Tot Ion: 75 Resp: 95440

Ion Ratio Lower Upper

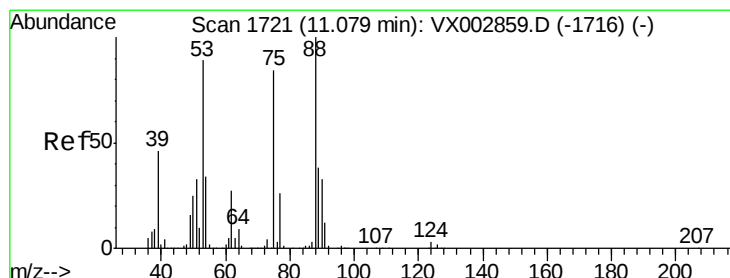
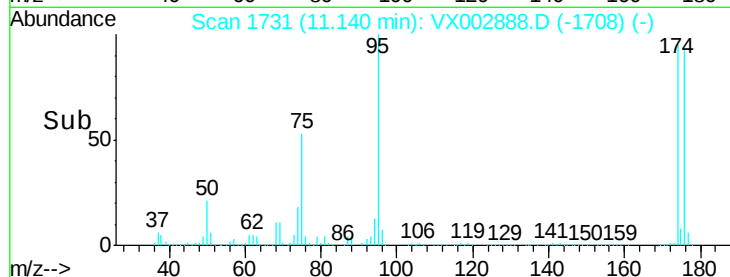
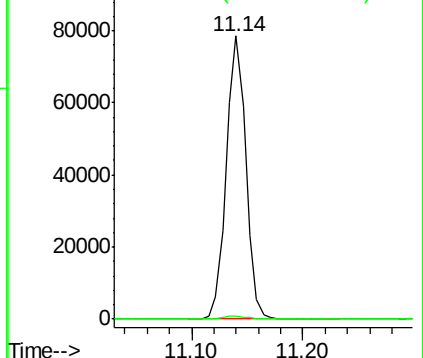
75 100

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: 78.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

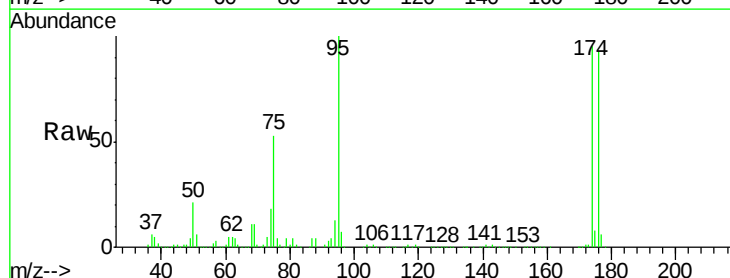
Tgt Ion: 75 Resp: 95440

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

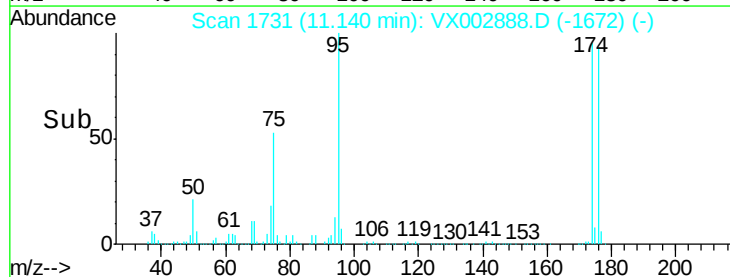
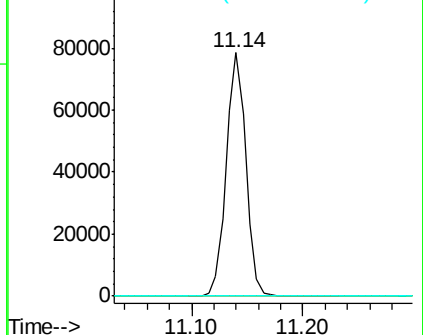
89 0.0 38.2 57.2#

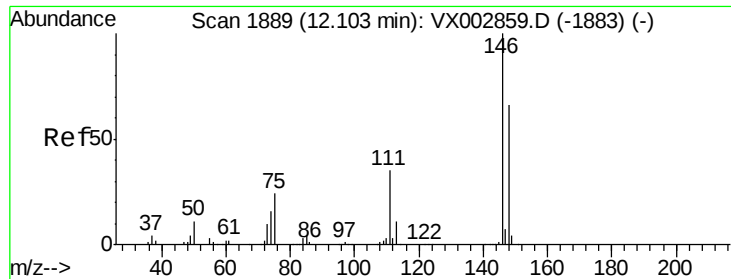


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#88

1,4-Dichlorobenzene

Concen: 0.25 ug/l

RT: 12.10 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VX002888.D

Acq: 26 Jun 2018 04:19

Instrument :

MSVOA_X

ClientSampleId :

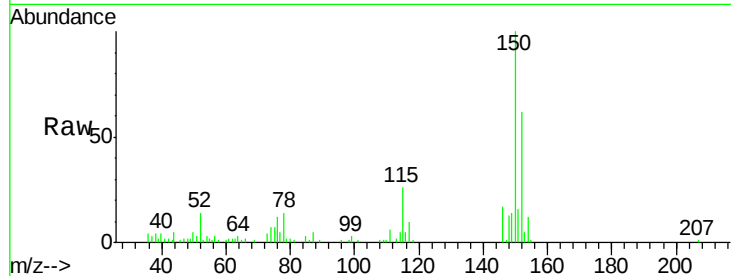
Tot Ion:146 Resp: 1736

Ion Ratio Lower Upper

146 100

111 0.0 18.7 56.1#

148 113.8 32.4 97.0#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

