

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX063018\
 Data File : VX003079.D
 Acq On : 30 Jun 2018 15:23
 Operator : JC/MD
 Sample : J3675-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S73-0222

Quant Time: Jul 02 02:42:27 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	263281	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	368734	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	338063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	188885	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	173030	47.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.10%	
35) Dibromofluoromethane	5.51	113	141718	48.53	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.06%	
50) Toluene-d8	8.72	98	514090	48.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.42%	
62) 4-Bromofluorobenzene	11.14	95	178303	43.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.72%	

Target Compounds

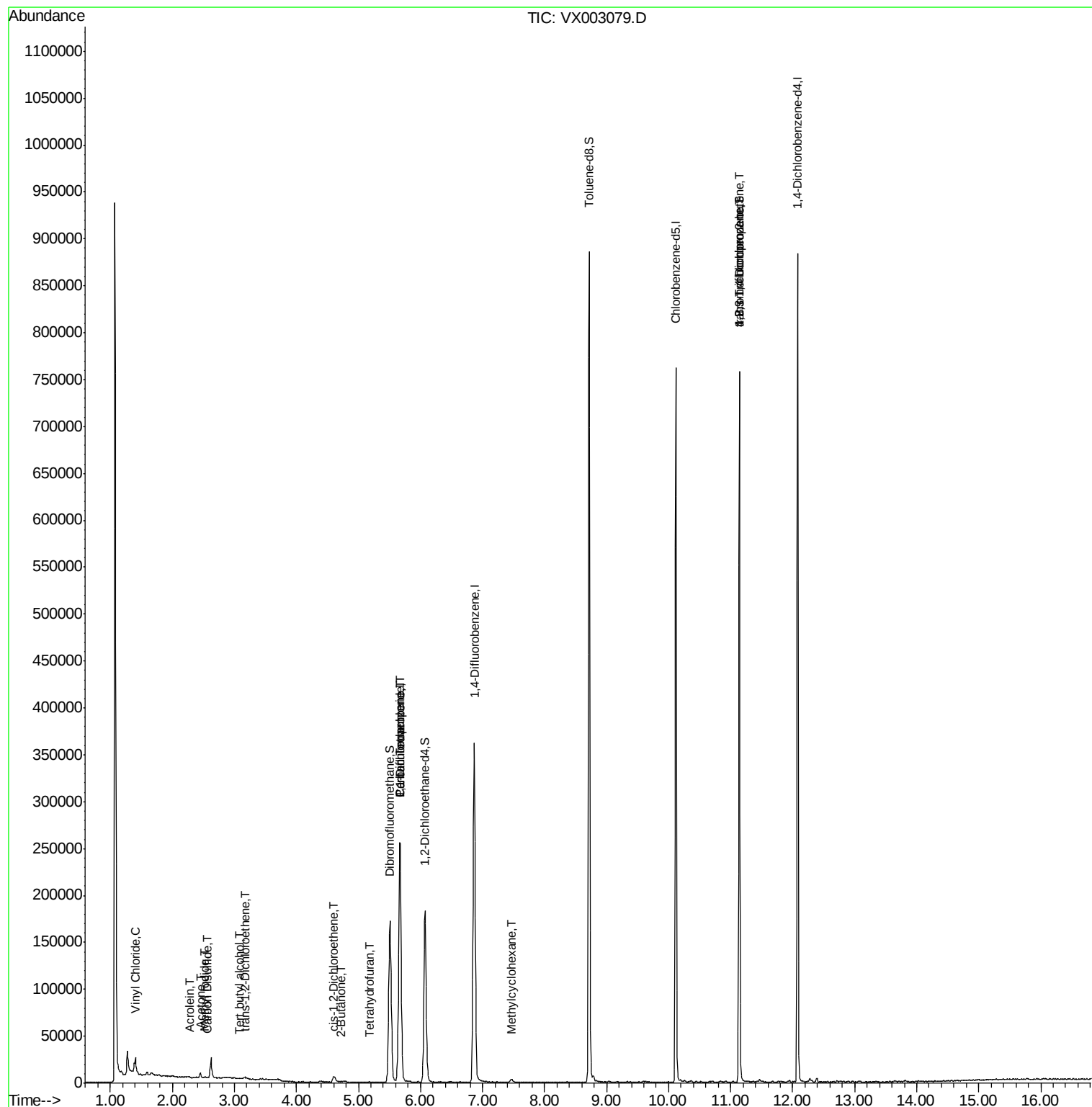
						Qvalue
2) Dichlorodifluoromethane	1.20	85	155	Below Cal		83
3) Chloromethane	1.32	50	1050	Below Cal		92
4) Vinyl Chloride	1.40	62	8895	2.99 ug/l	#	30
5) Bromomethane	1.66	94	1727	Below Cal	#	78
6) Chloroethane	1.69	64	783	Below Cal	#	53
10) Methyl Iodide	2.51	142	1761	6.75 ug/l		98
11) Tert butyl alcohol	3.08	59	476	0.66 ug/l	#	81
13) Acrolein	2.28	56	92	4.45 ug/l	#	63
16) Acetone	2.45	43	5160	3.42 ug/l		97
17) Carbon Disulfide	2.57	76	1389	0.20 ug/l	#	78
21) trans-1,2-Dichloroethene	3.17	96	950	0.34 ug/l	#	61
25) 2-Butanone	4.72	43	709	0.32 ug/l	#	79
27) cis-1,2-Dichloroethene	4.60	96	2721	0.86 ug/l	#	9
29) Tetrahydrofuran	5.18	42	428	0.30 ug/l	#	48
36) 1,1-Dichloropropene	5.67	75	17108	4.23 ug/l	#	51
38) Carbon Tetrachloride	5.67	117	24226	5.46 ug/l	#	18
39) Methylcyclohexane	7.46	83	1170	0.25 ug/l	#	93
76) 1,2,3-Trichloropropane	11.14	75	92653	27.08 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	92653	76.65 ug/l	#	7

(#) = 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: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampleId :

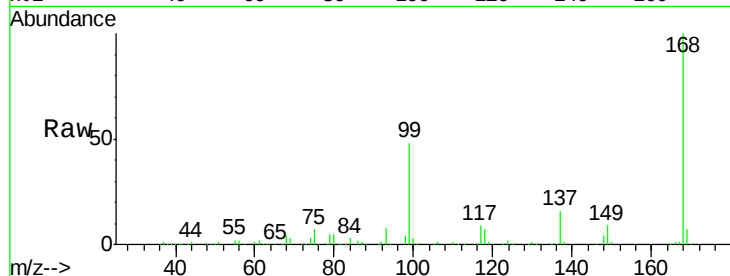
S73-0222

Tot Ion:168 Resp: 263281

Ion Ratio Lower Upper

168 100

99 48.5 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

100000

80000

60000

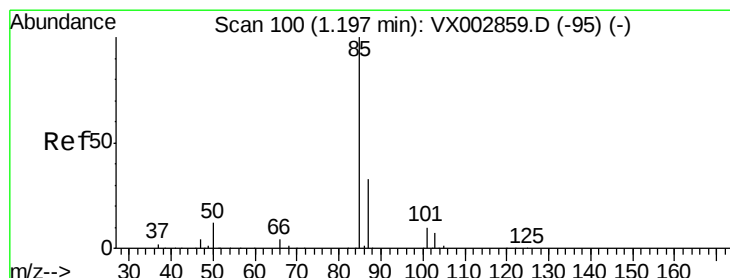
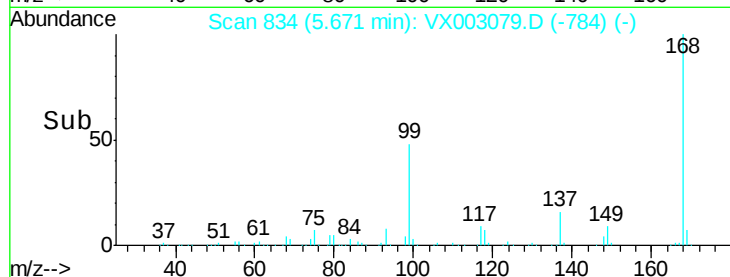
40000

20000

0

Time-->

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: VX003079.D

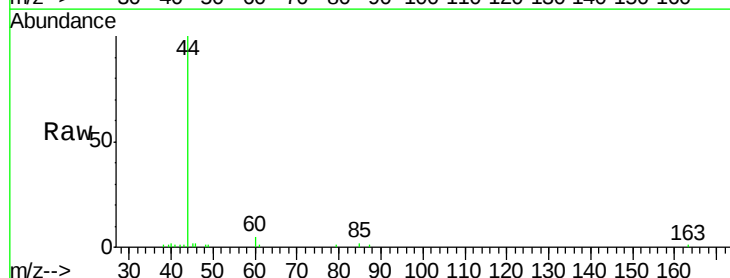
Acq: 30 Jun 2018 15:23

Tgt Ion: 85 Resp: 155

Ion Ratio Lower Upper

85 100

87 41.1 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

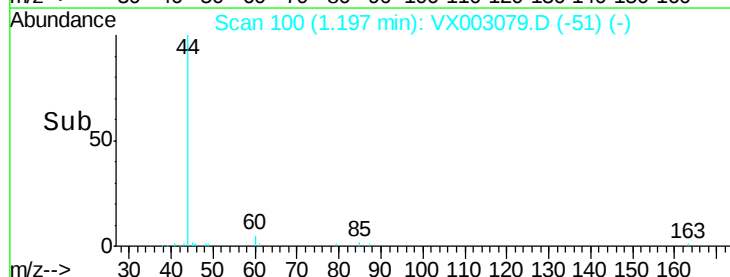
100

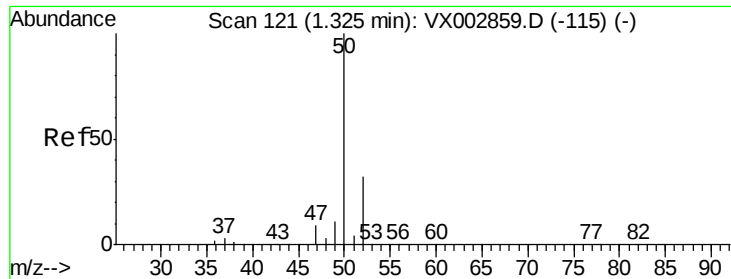
50

0

Time-->

1.15 1.20





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampleId :

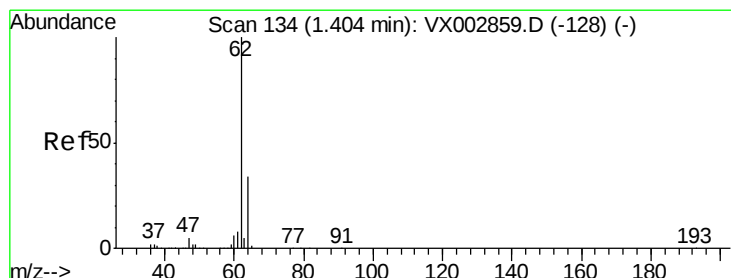
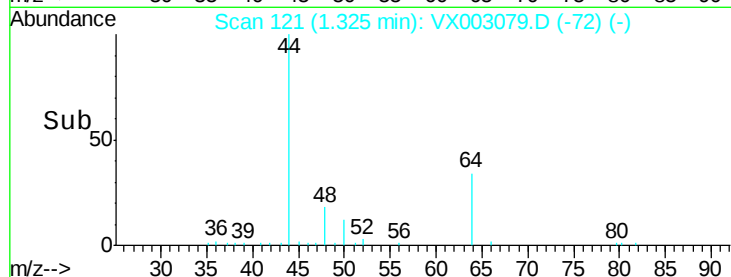
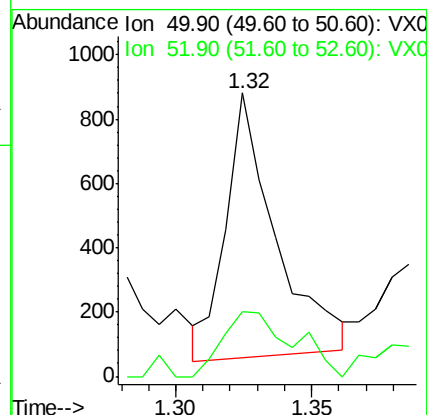
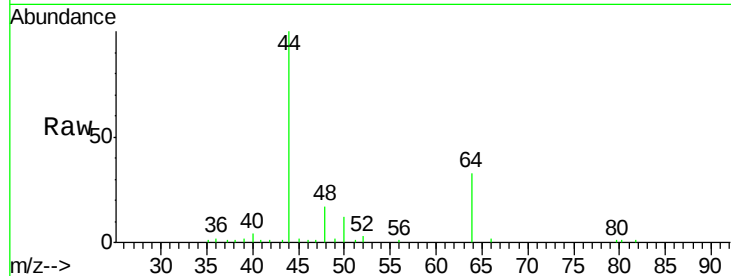
S73-0222

Tot Ion: 50 Resp: 1050

Ion Ratio Lower Upper

50 100

52 27.6 25.7 38.5



#4

Vinyl Chloride

Concen: 2.99 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX003079.D

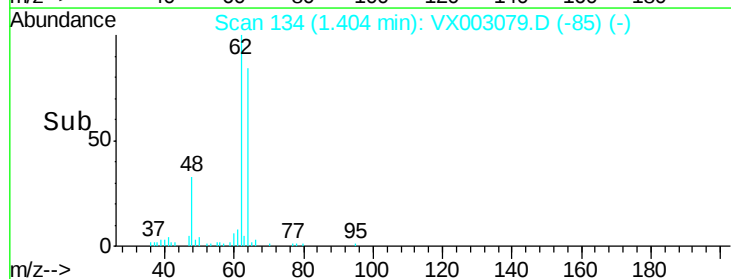
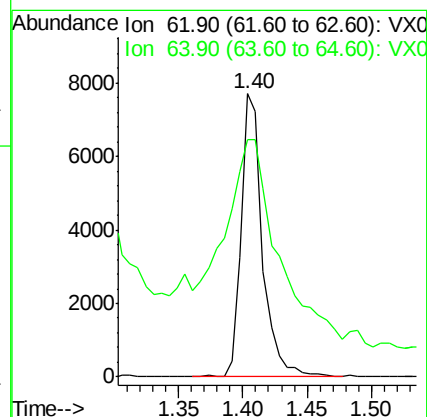
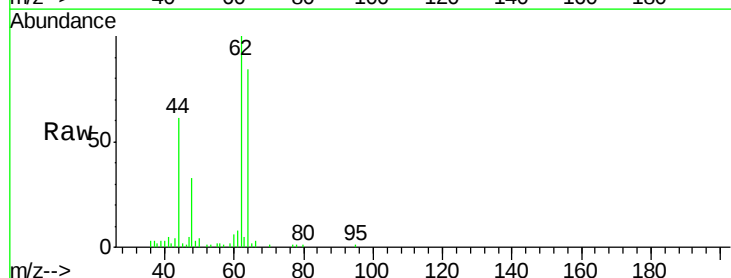
Acq: 30 Jun 2018 15:23

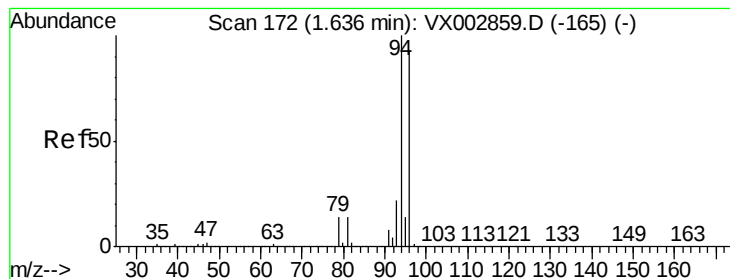
Tgt Ion: 62 Resp: 8895

Ion Ratio Lower Upper

62 100

64 70.7 25.4 38.2#





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampleId :

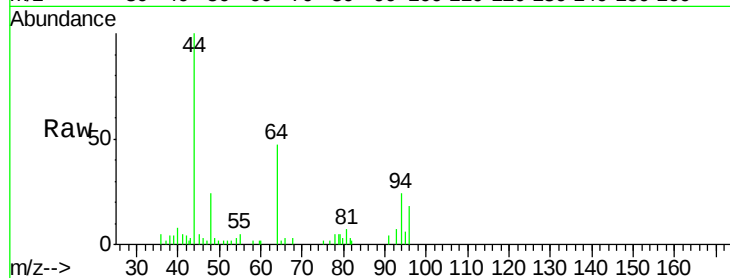
S73-0222

Tot Ion: 94 Resp: 1727

Ion Ratio Lower Upper

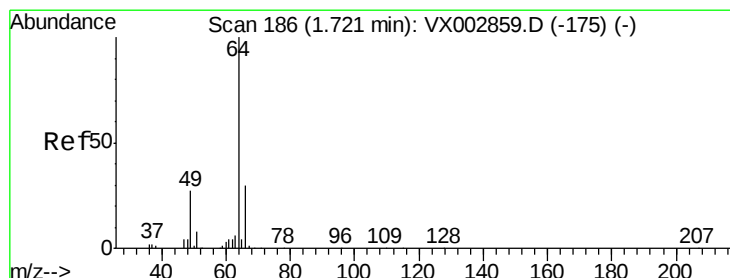
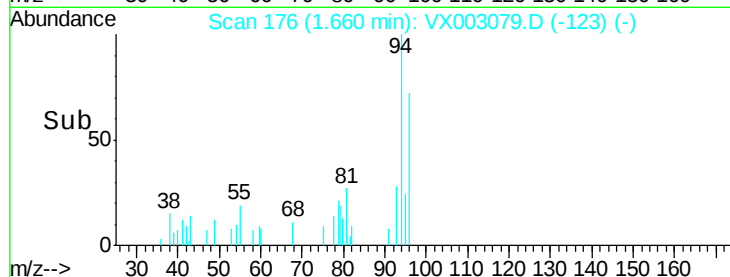
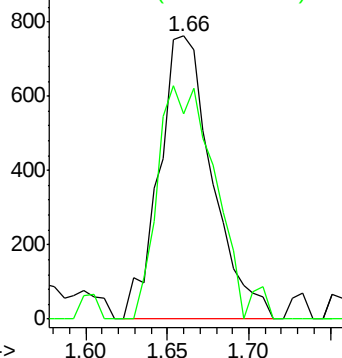
94 100

96 72.3 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: 1.69 min Scan# 181

Delta R.T. -0.03 min

Lab File: VX003079.D

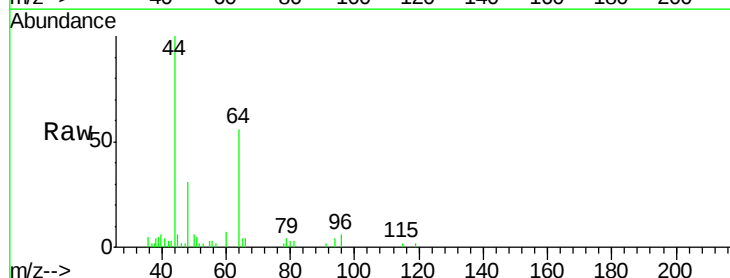
Acq: 30 Jun 2018 15:23

Tgt Ion: 64 Resp: 783

Ion Ratio Lower Upper

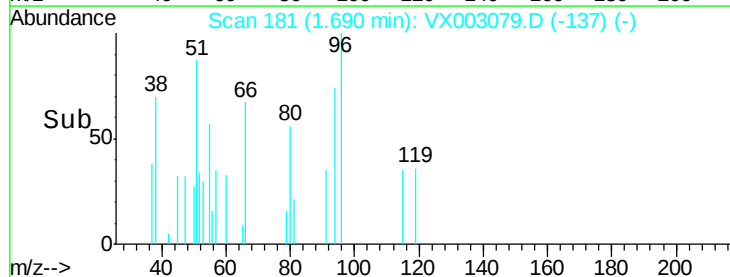
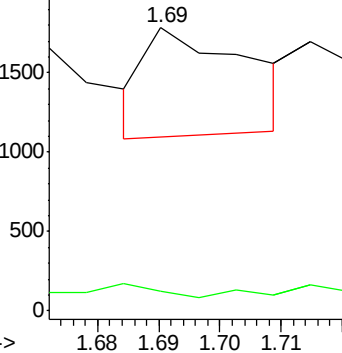
64 100

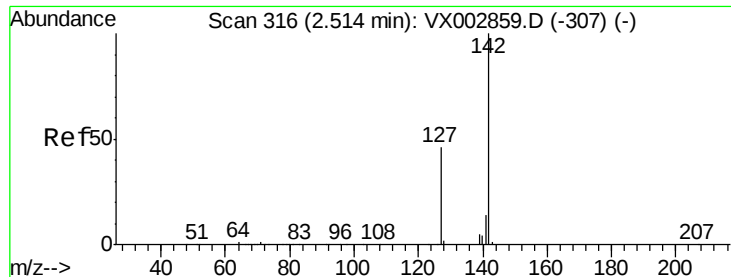
66 5.7 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

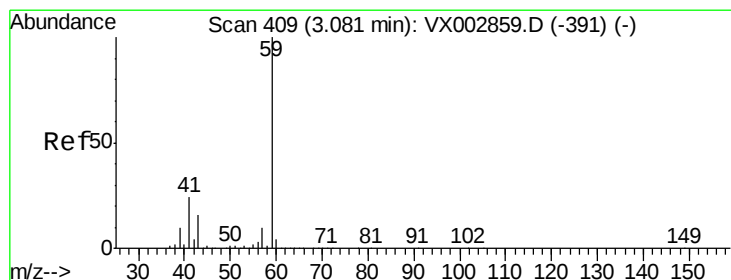
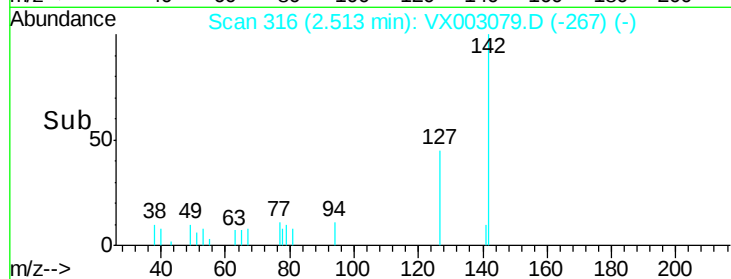
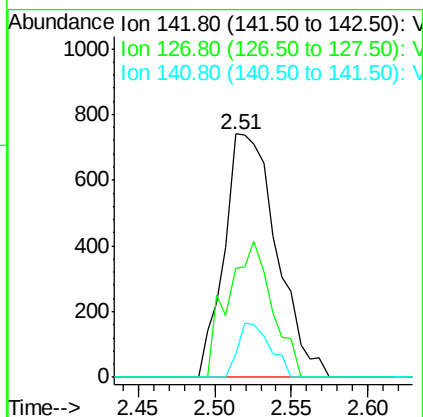
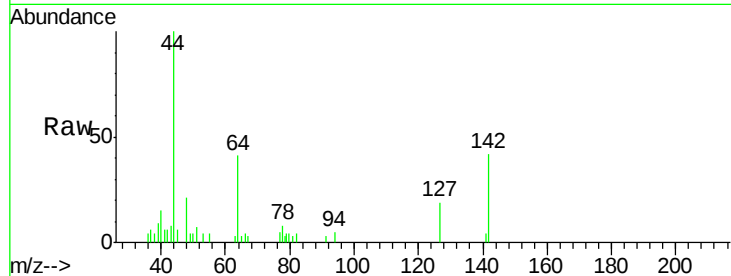




#10
Methvl Iodide
Concen: 6.75 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.00 min
Lab File: VX003079.D
Acq: 30 Jun 2018 15:23

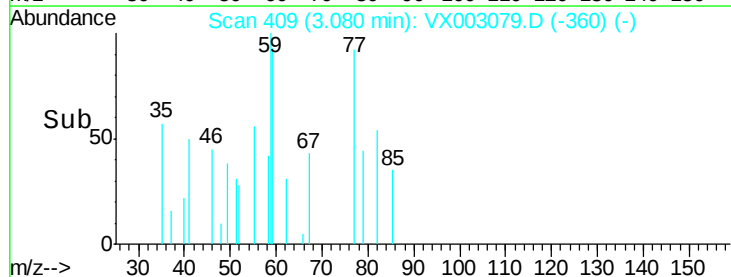
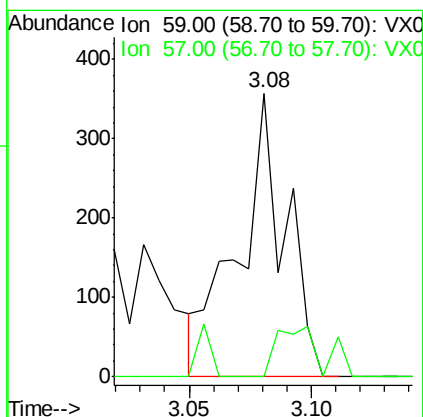
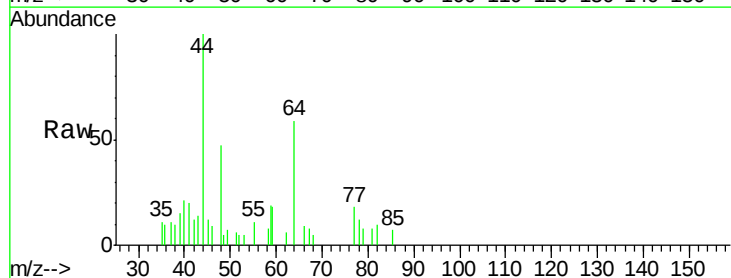
Instrument :
MSVOA_X
ClientSampleId :
S73-0222

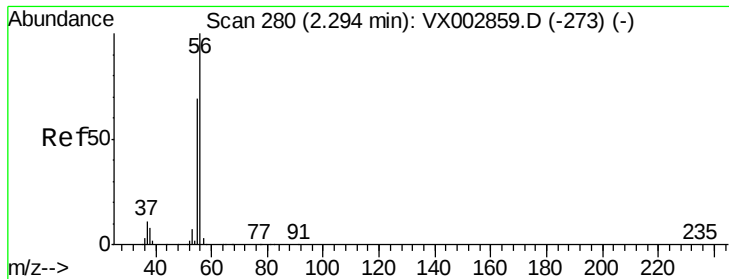
Tot Ion:142 Resp: 1761
Ion Ratio Lower Upper
142 100
127 47.3 36.6 55.0
141 13.7 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.66 ug/l
RT: 3.08 min Scan# 409
Delta R.T. -0.00 min
Lab File: VX003079.D
Acq: 30 Jun 2018 15:23

Tgt Ion: 59 Resp: 476
Ion Ratio Lower Upper
59 100
57 17.4 8.2 12.2#





#13

Acrolein

Concen: 4.45 ug/l

RT: 2.28 min Scan# 277

Delta R.T. -0.02 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampleId :

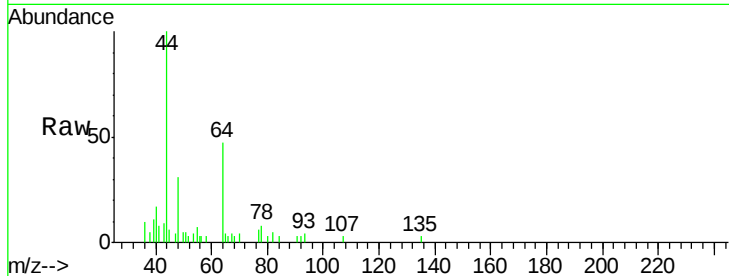
S73-0222

Tot Ion: 56 Resp: 92

Ion Ratio Lower Upper

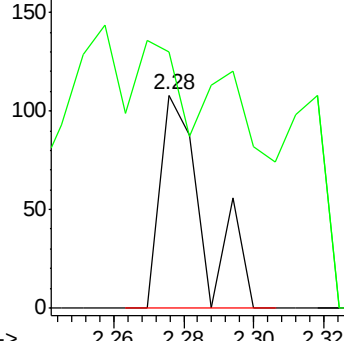
56 100

55 40.2 57.0 85.4#

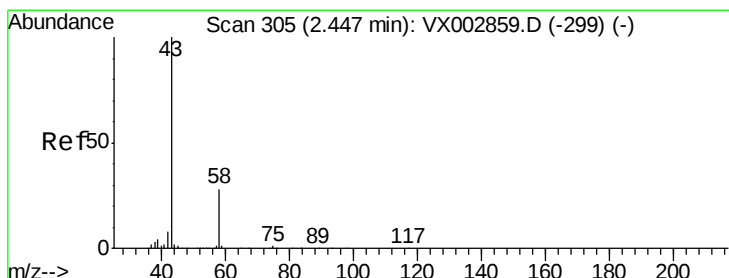
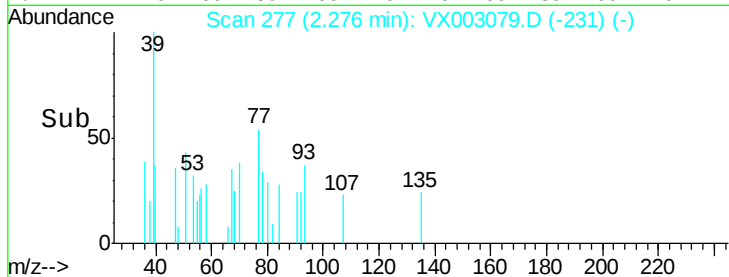


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 3.42 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.01 min

Lab File: VX003079.D

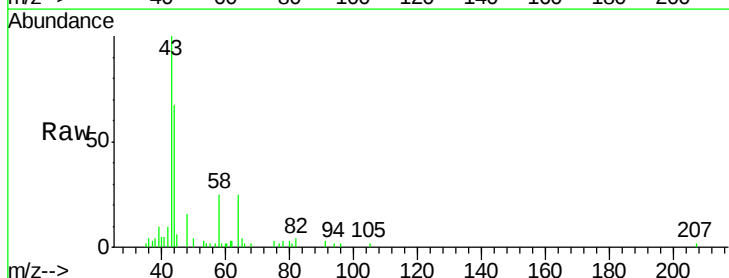
Acq: 30 Jun 2018 15:23

Tgt Ion: 43 Resp: 5160

Ion Ratio Lower Upper

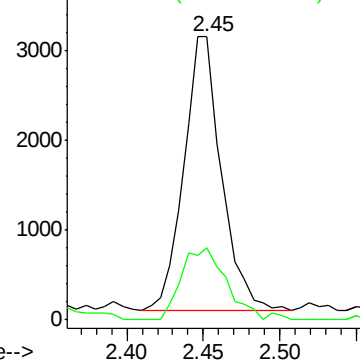
43 100

58 26.2 22.1 33.1

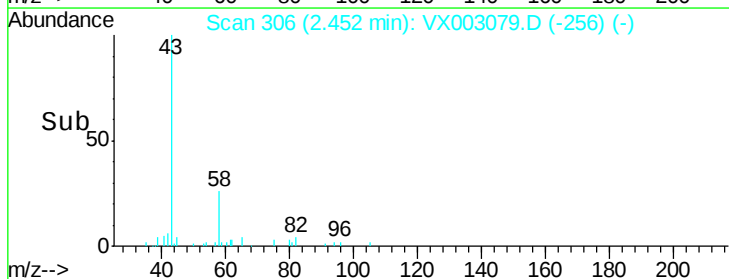


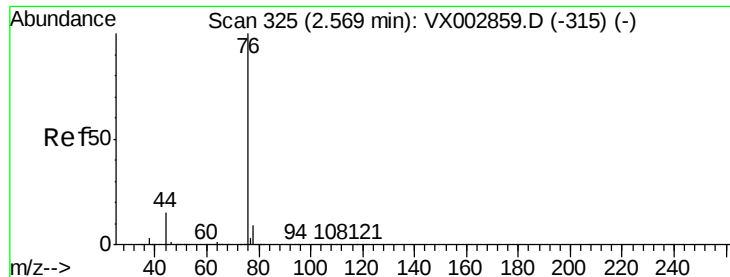
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#17

Carbon Disulfide

Concen: 0.20 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampleId :

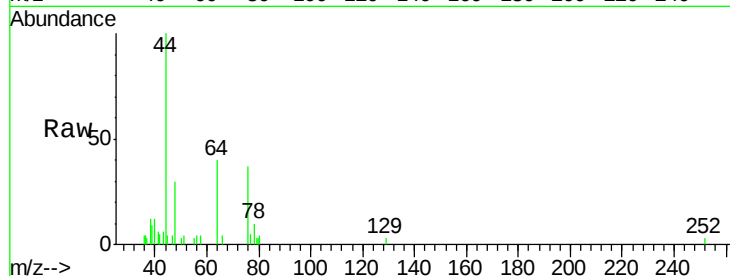
S73-0222

Tot Ion: 76 Resp: 1389

Ion Ratio Lower Upper

76 100

78 16.6 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

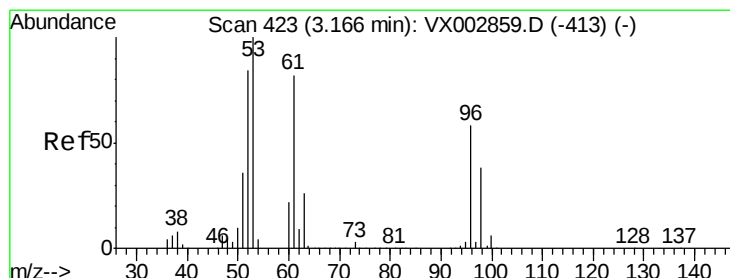
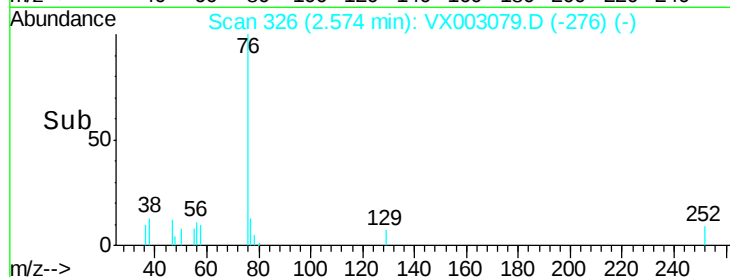
600

400

200

0

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.34 ug/l

RT: 3.17 min Scan# 424

Delta R.T. 0.01 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

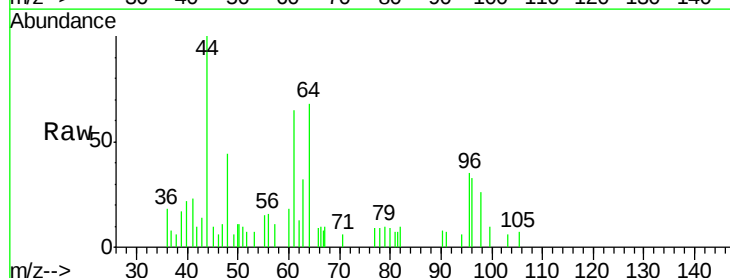
Tgt Ion: 96 Resp: 950

Ion Ratio Lower Upper

96 100

61 95.1 117.0 175.4#

98 39.0 52.4 78.6#



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

3.17

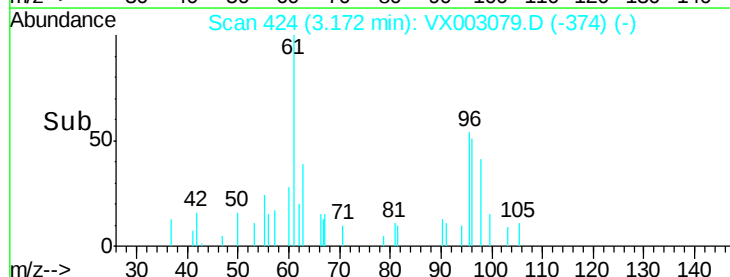
600

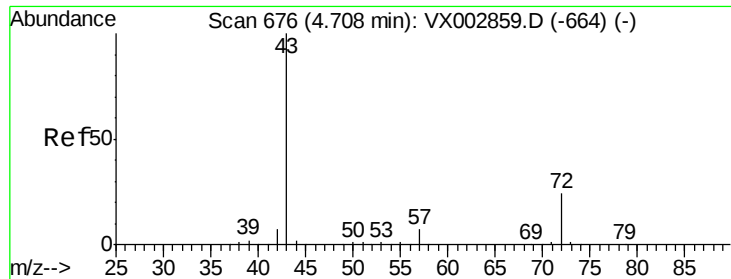
400

200

0

Time-->

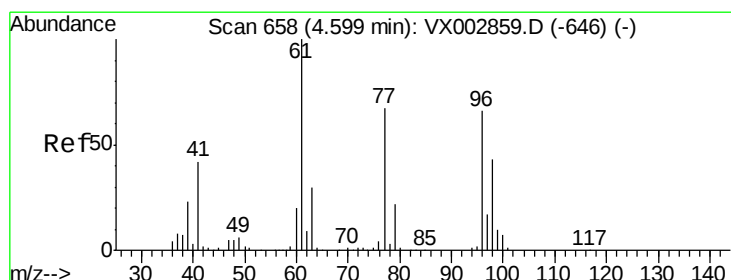
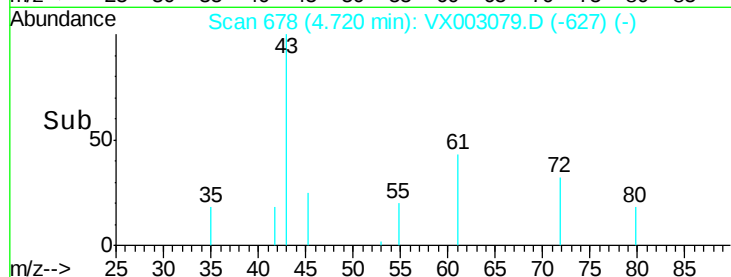
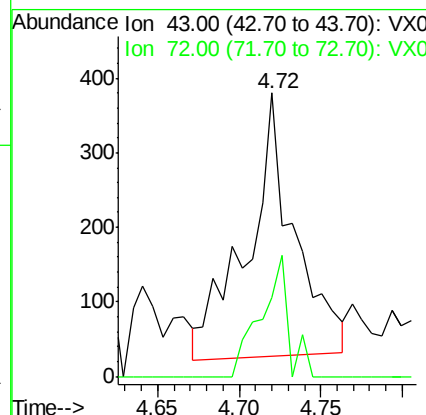
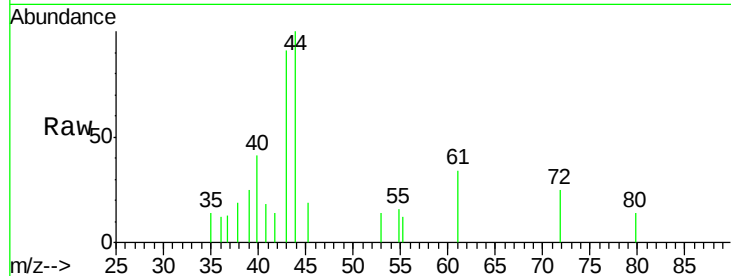




#25
2-Butanone
Concen: 0.32 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX003079.D
Acq: 30 Jun 2018 15:23

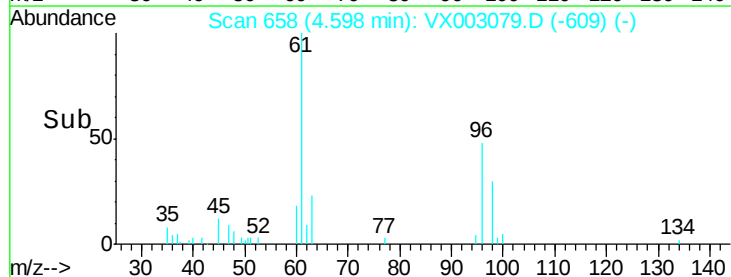
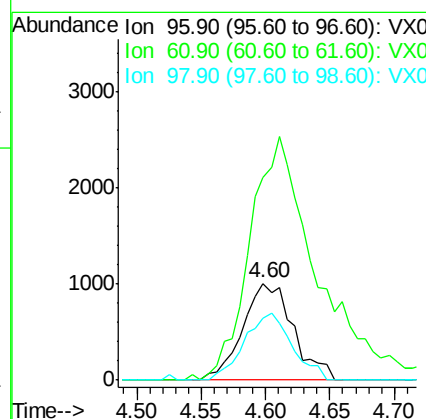
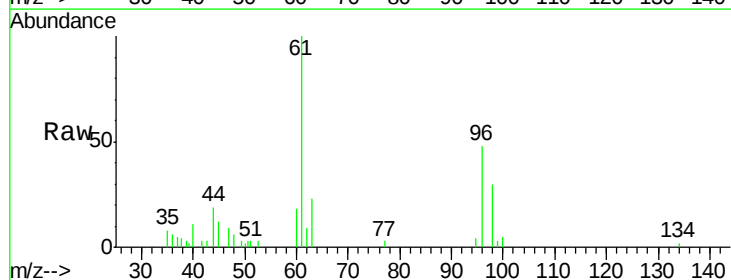
Instrument :
MSVOA_X
ClientSampled :
S73-0222

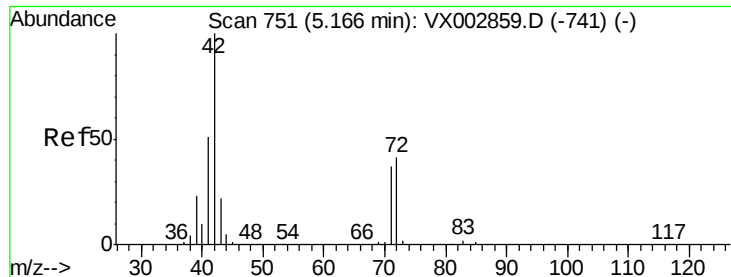
Tot Ion: 43 Resp: 709
Ion Ratio Lower Upper
43 100
72 33.3 18.5 27.7#



#27
cis-1,2-Dichloroethene
Concen: 0.86 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.00 min
Lab File: VX003079.D
Acq: 30 Jun 2018 15:23

Tgt Ion: 96 Resp: 2721
Ion Ratio Lower Upper
96 100
61 336.1 0.0 330.2#
98 65.5 0.0 130.2

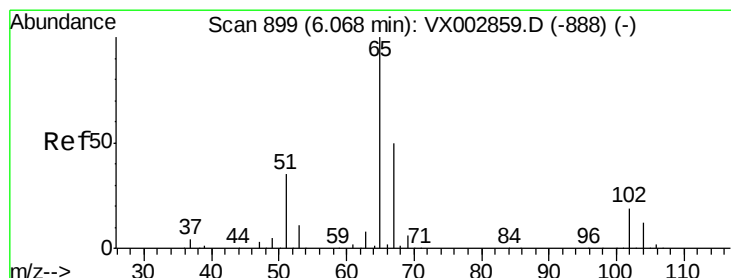
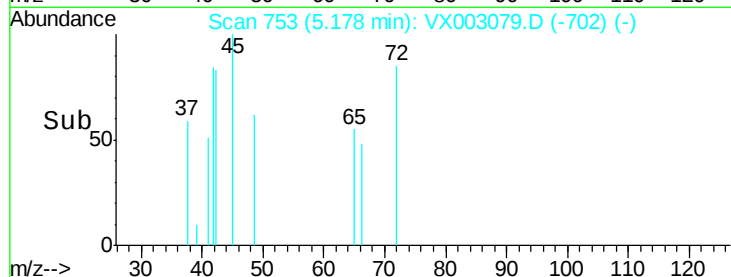
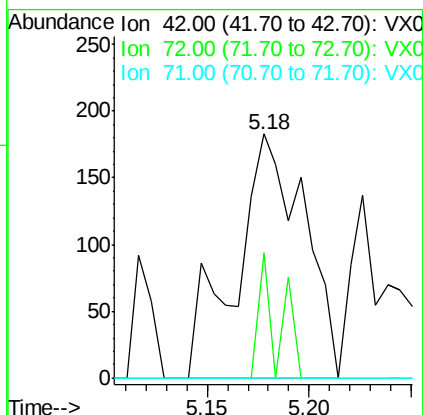
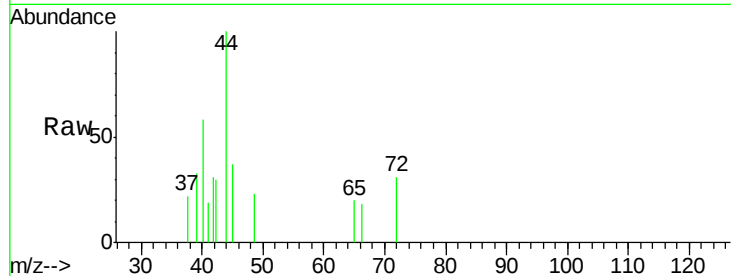




#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 5.18 min Scan# 753
Delta R.T. 0.01 min
Lab File: VX003079.D
Acq: 30 Jun 2018 15:23

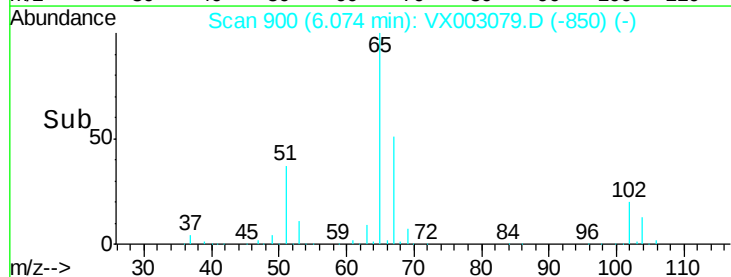
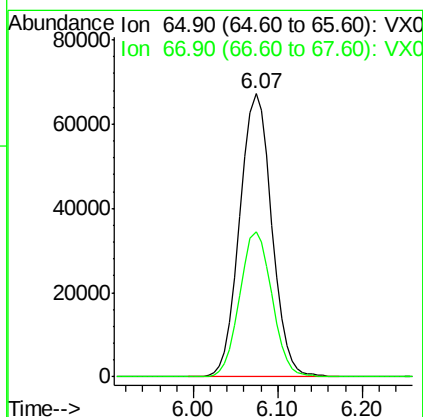
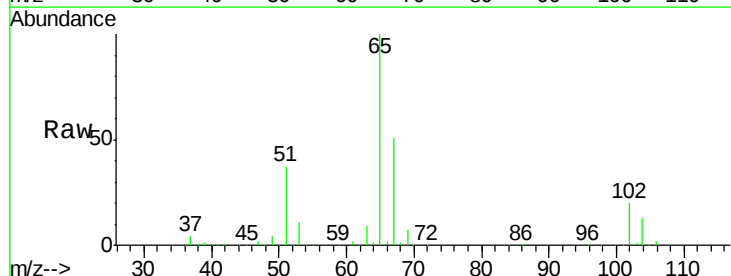
Instrument :
MSVOA_X
ClientSampled :
S73-0222

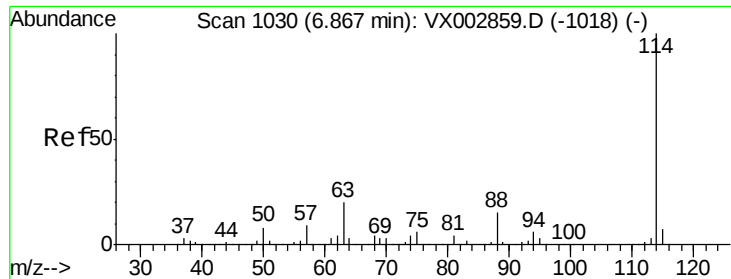
Tot Ion: 42 Resp: 428
Ion Ratio Lower Upper
42 100
72 14.5 32.0 48.0#
71 0.0 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 47.55 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX003079.D
Acq: 30 Jun 2018 15:23

Tgt Ion: 65 Resp: 173030
Ion Ratio Lower Upper
65 100
67 51.8 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: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampleId :

S73-0222

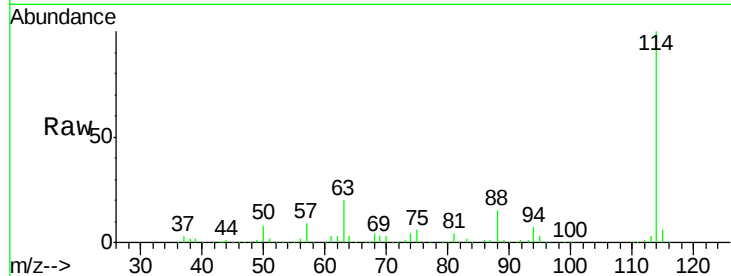
Tot Ion:114 Resp: 368734

Ion Ratio Lower Upper

114 100

63 19.7 0.0 41.4

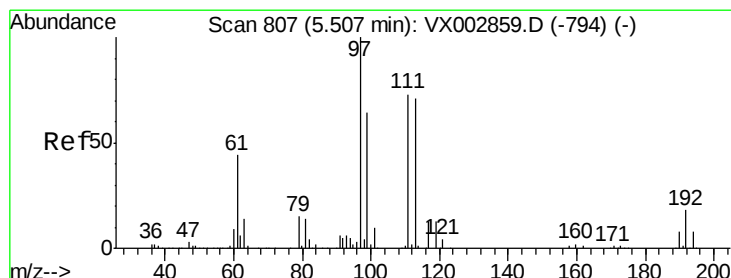
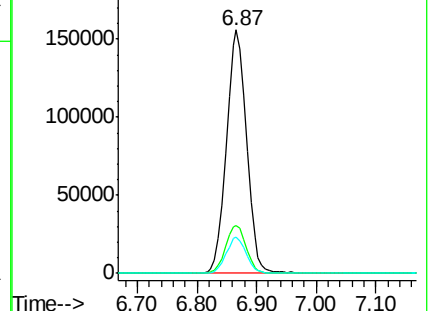
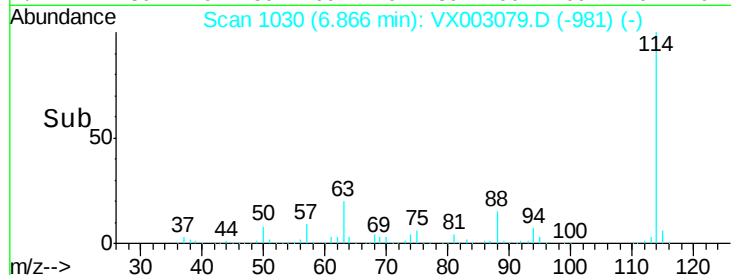
88 15.0 0.0 30.0



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: 48.53 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

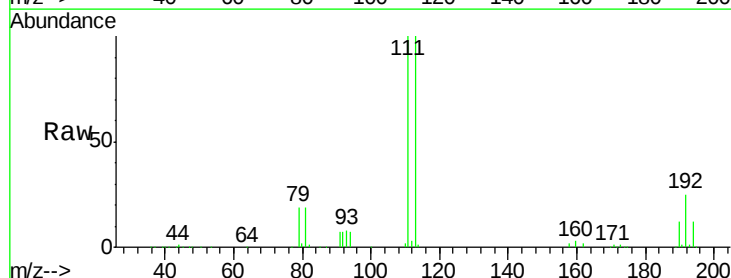
Tgt Ion:113 Resp: 141718

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

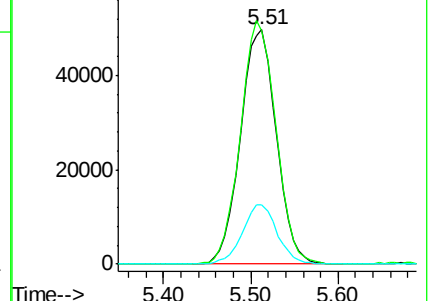
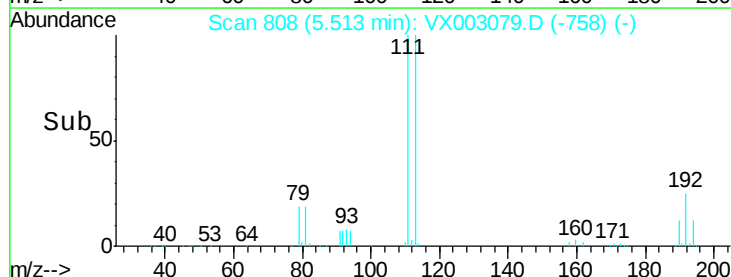
192 24.7 19.1 28.7

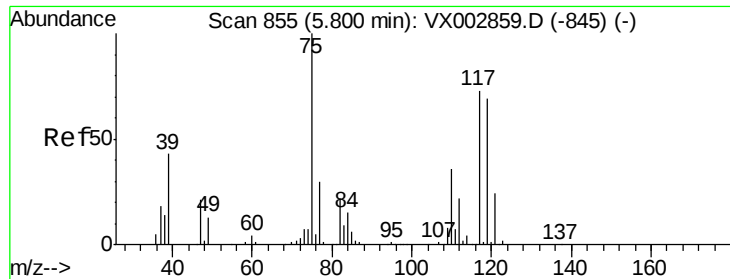


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

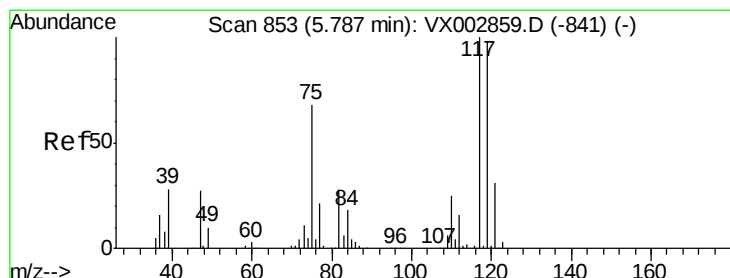
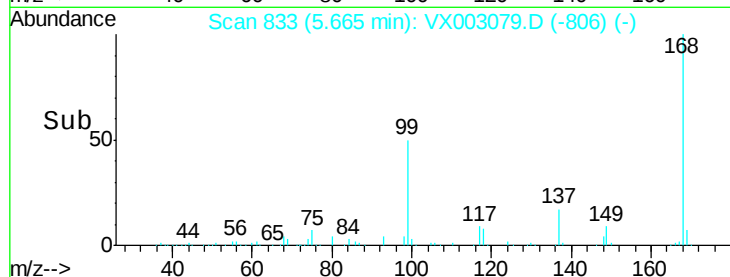
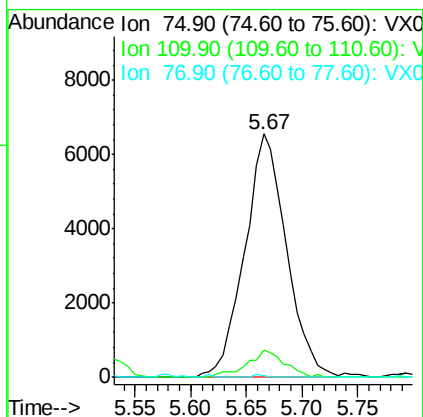
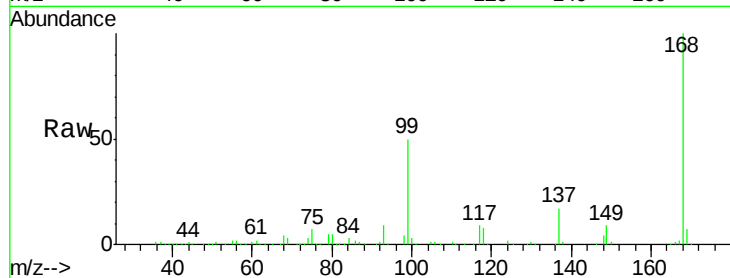




#36
 1,1-Dichloropropene
 Concen: 4.23 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003079.D
 Acq: 30 Jun 2018 15:23

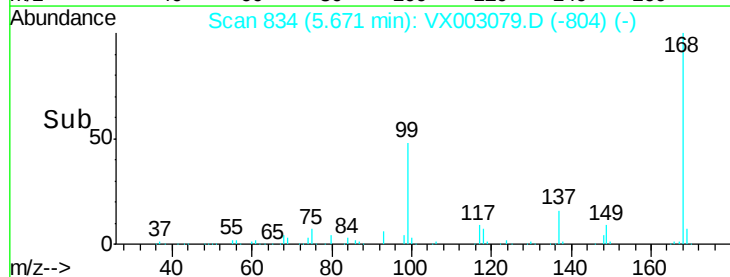
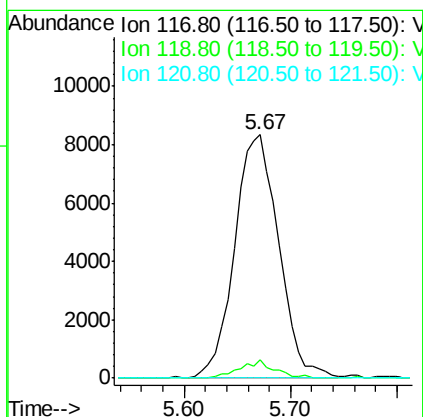
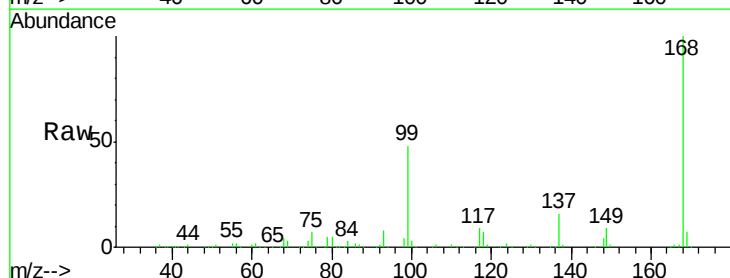
Instrument :
 MSVOA_X
 ClientSampled :
 S73-0222

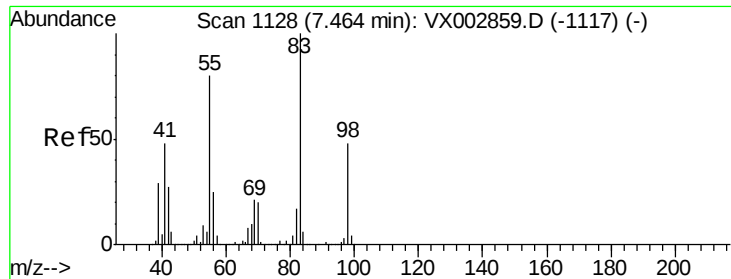
Tot Ion: 75 Resp: 17108
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.4#
 77 0.3 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.46 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX003079.D
 Acq: 30 Jun 2018 15:23

Tgt Ion: 117 Resp: 24226
 Ion Ratio Lower Upper
 117 100
 119 7.7 77.4 116.0#
 121 0.0 24.4 36.6#

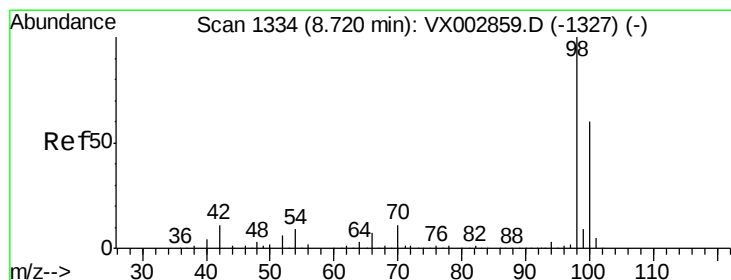
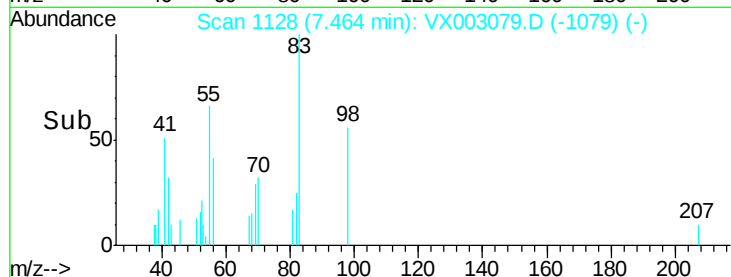
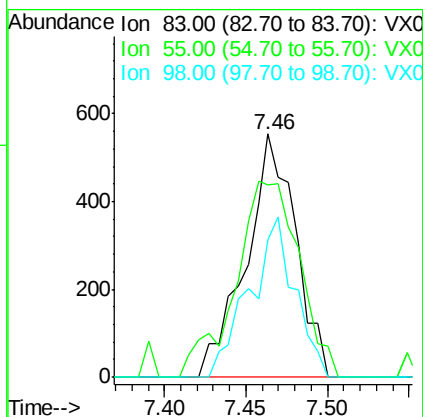
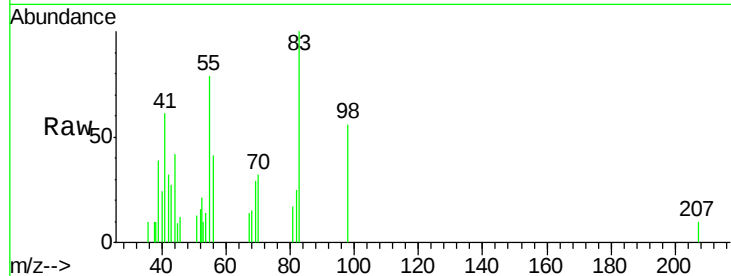




#39
Methylcyclohexane
Concen: 0.25 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX003079.D
Acq: 30 Jun 2018 15:23

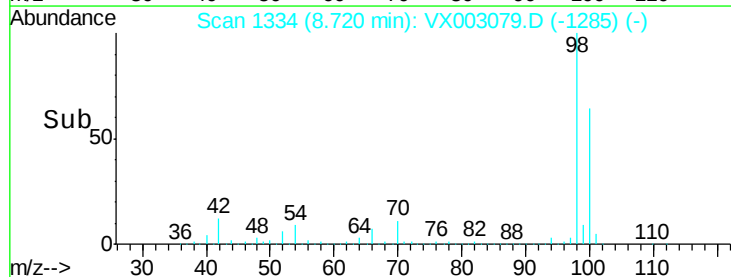
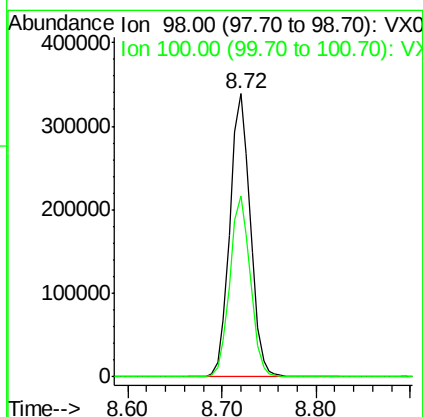
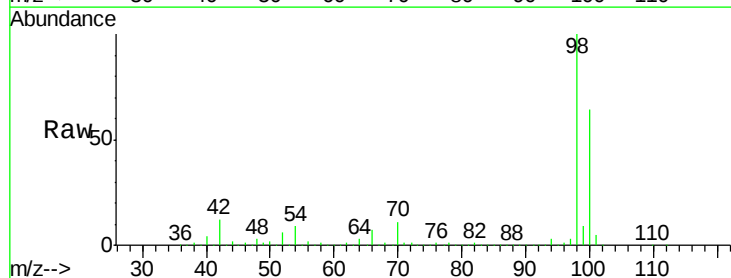
Instrument :
MSVOA_X
ClientSampled :
S73-0222

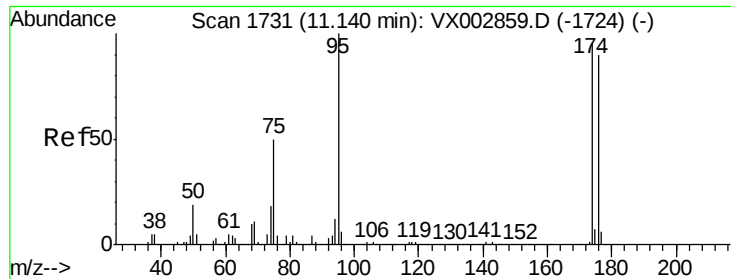
Tot Ion: 83 Resp: 1170
Ion Ratio Lower Upper
83 100
55 78.9 65.4 98.0
98 56.3 37.4 56.0#



#50
Toluene-d8
Concen: 48.21 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003079.D
Acq: 30 Jun 2018 15:23

Tgt Ion: 98 Resp: 514090
Ion Ratio Lower Upper
98 100
100 63.9 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 43.36 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampleId :

S73-0222

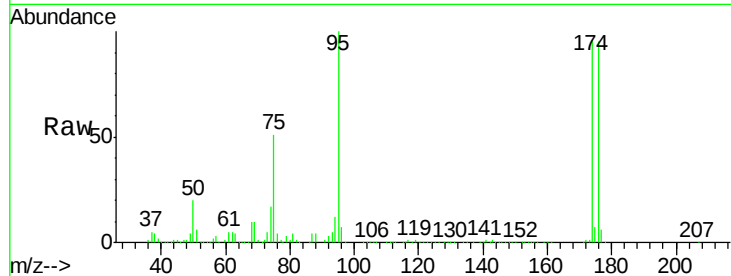
Tot Ion: 95 Resp: 178303

Ion Ratio Lower Upper

95 100

174 98.0 0.0 187.4

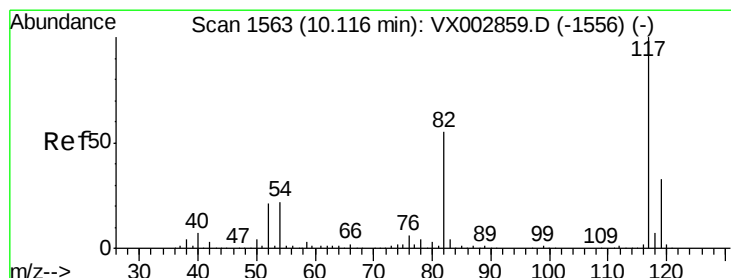
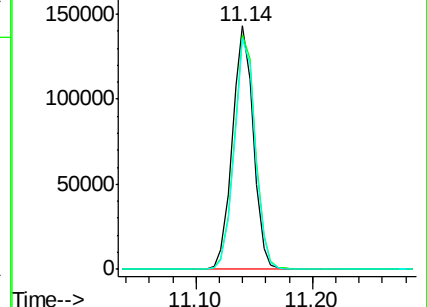
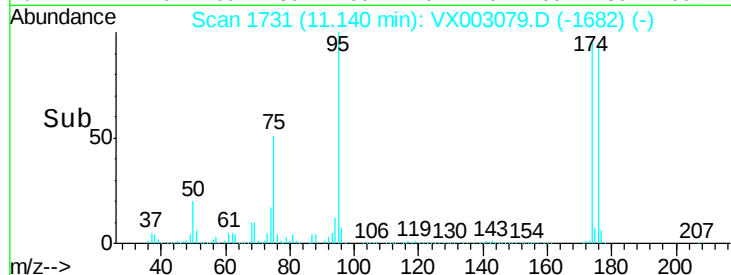
176 95.2 0.0 181.0



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: VX003079.D

Acq: 30 Jun 2018 15:23

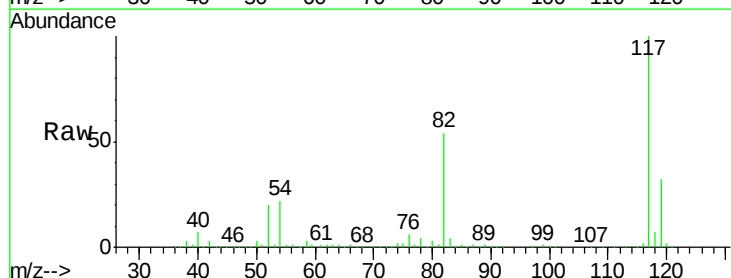
Tgt Ion: 117 Resp: 338063

Ion Ratio Lower Upper

117 100

82 54.4 45.0 67.4

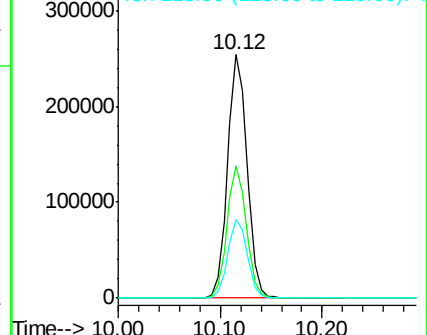
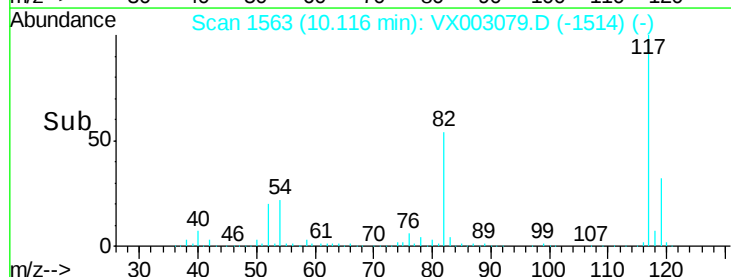
119 32.5 25.8 38.6

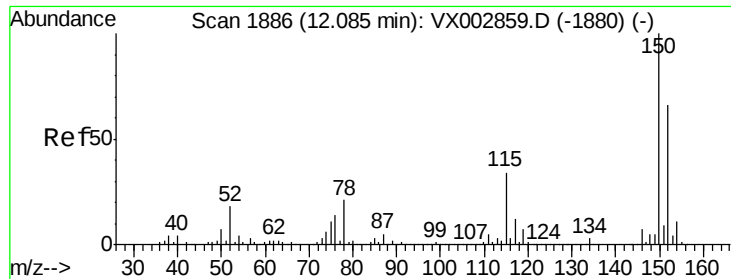


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampled :

S73-0222

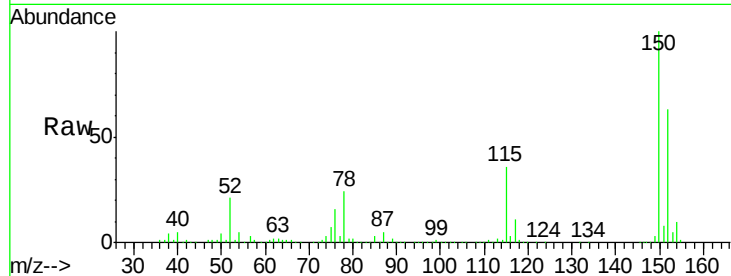
Tot Ion:152 Resp: 188885

Ion Ratio Lower Upper

152 100

115 54.0 40.1 120.2

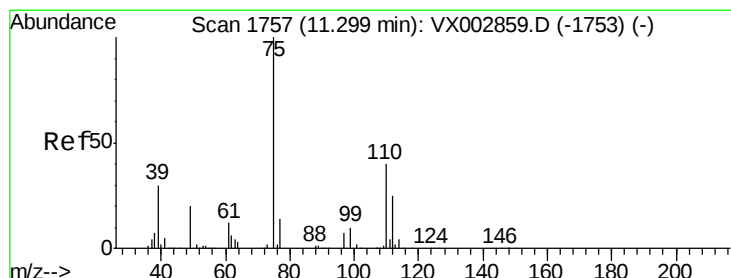
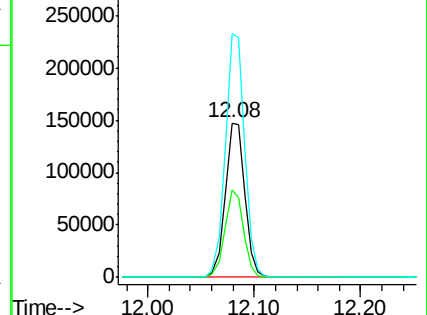
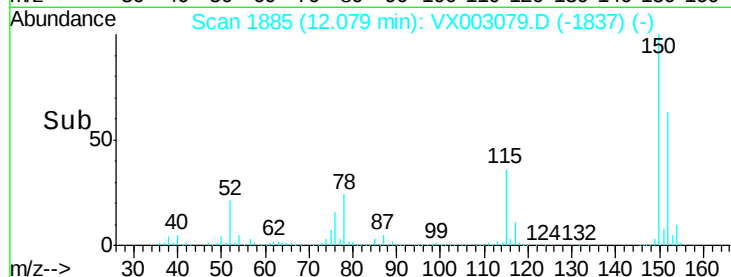
150 156.2 0.0 347.2



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: 27.08 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003079.D

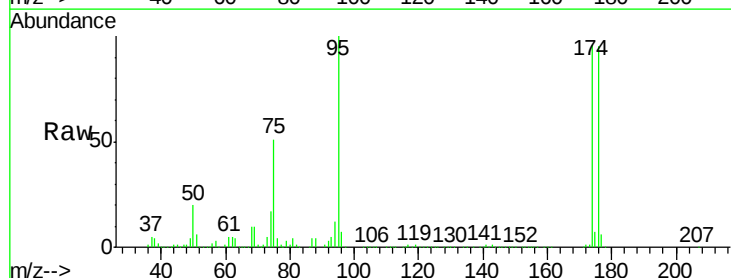
Acq: 30 Jun 2018 15:23

Tgt Ion: 75 Resp: 92653

Ion Ratio Lower Upper

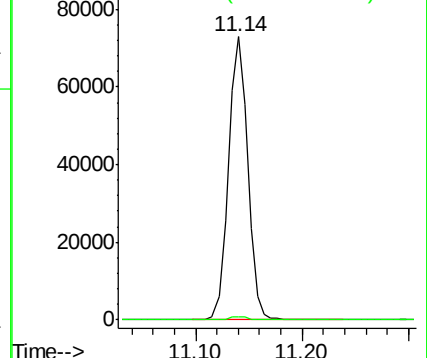
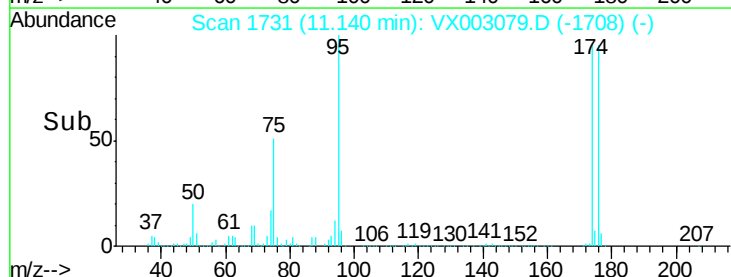
75 100

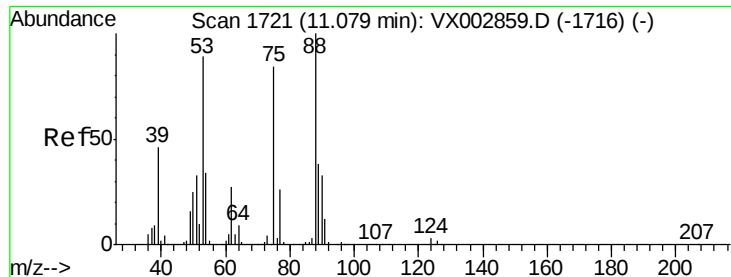
77 1.3 22.8 68.3#



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: 76.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003079.D

Acq: 30 Jun 2018 15:23

Instrument :

MSVOA_X

ClientSampleId :

S73-0222

Tot Ion: 75 Resp: 92653

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

