

Data Path : W:\HPCHEM1\MSVOA X\DATA\X052618\
 Data File : VX002026.D
 Acq On : 26 May 2018 18:33
 Operator : JC/MD
 Sample : J3118-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 28 00:34:29 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X052418W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 24 13:09:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	320082	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	449818	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	398005	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	212785	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	270732	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
35) Dibromofluoromethane	5.51	113	209726	46.62	ug/l	0.00
Spiked Amount			Recovery	=	93.24%	
50) Toluene-d8	8.72	98	796849	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
62) 4-Bromofluorobenzene	11.14	95	280663	44.05	ug/l	0.00
Spiked Amount			Recovery	=	88.10%	

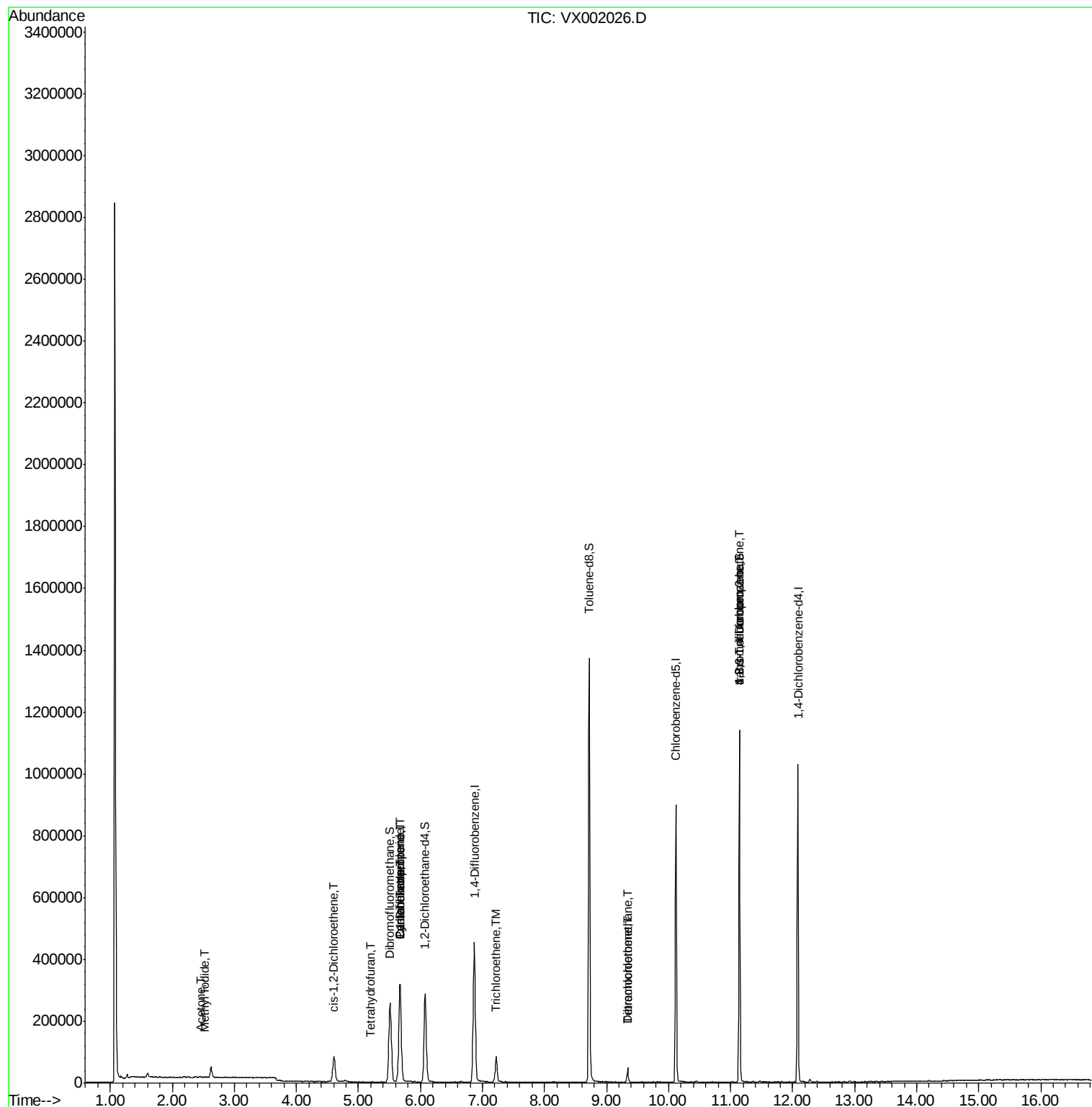
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	87	Below Cal	#	41
5) Bromomethane	1.65	94	931	Below Cal		95
10) Methyl Iodide	2.52	142	1481	0.27	ug/l #	84
16) Acetone	2.45	43	4112	1.86	ug/l #	88
18) Methyl Acetate	2.78	43	496	Below Cal	#	1
20) Methylene Chloride	2.83	84	179	Below Cal	#	4
21) trans-1,2-Dichloroethene	3.16	96	649	Below Cal	#	64
27) cis-1,2-Dichloroethene	4.60	96	46574	9.57	ug/l	96
28) Bromochloromethane	5.06	49	65	Below Cal	#	14
29) Tetrahydrofuran	5.19	42	709	0.27	ug/l #	39
31) Cyclohexane	5.67	56	5918	0.75	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	22317	3.57	ug/l #	52
38) Carbon Tetrachloride	5.67	117	29106	3.99	ug/l #	14
41) Methacrylonitrile	5.06	41	106	Below Cal	#	42
44) Trichloroethene	7.22	130	31698	5.93	ug/l	97
60) Dibromochloromethane	9.34	129	7999	1.39	ug/l #	11
64) Tetrachloroethene	9.34	164	8860	1.55	ug/l	97
74) N-amyl acetate	6.50	43	95	Below Cal	#	59
75) 1,1,2,2-Tetrachloroethane	11.29	83	57	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	147883	28.93	ug/l #	33
79) 2-Chlorotoluene	11.52	91	188	Below Cal		95
81) trans-1,4-Dichloro-2-buten	11.14	75	147883	69.54	ug/l #	10

(#) = 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. -0.00 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

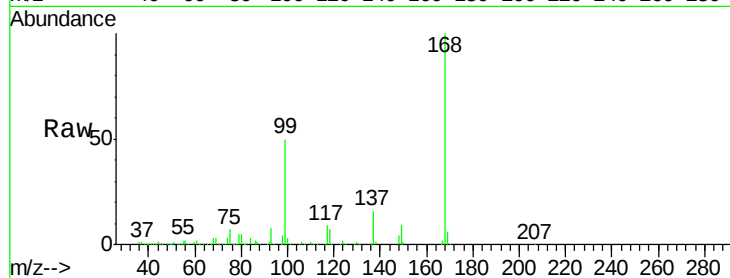
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 320082

Ion Ratio Lower Upper

168 100

99 50.4 41.0 61.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

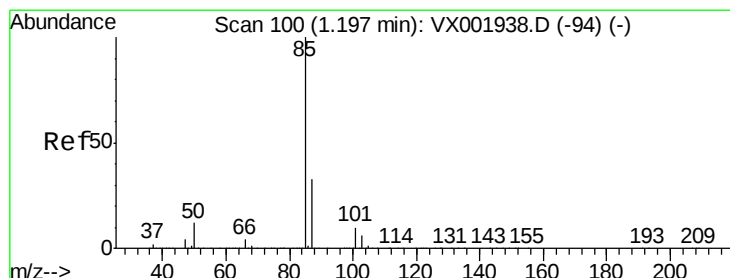
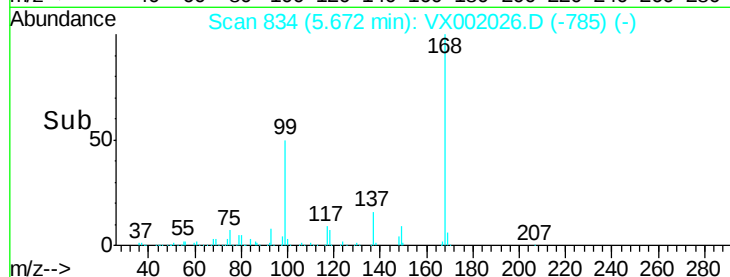
5.67

100000

50000

0

Time--> 5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX002026.D

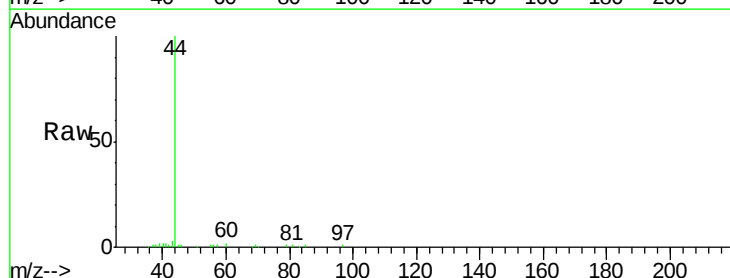
Acq: 26 May 2018 18:33

Tgt Ion: 85 Resp: 87

Ion Ratio Lower Upper

85 100

87 0.0 16.7 50.0#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

120

100

80

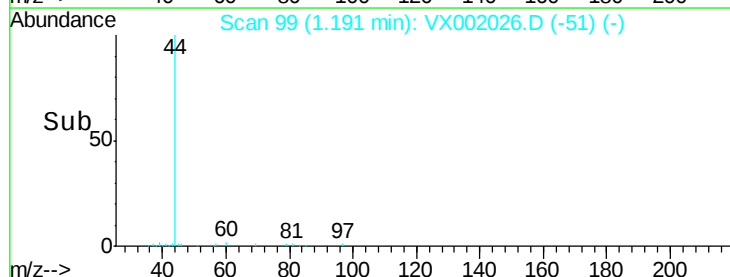
60

40

20

0

Time--> 1.16 1.18 1.20





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :

MSVOA_X

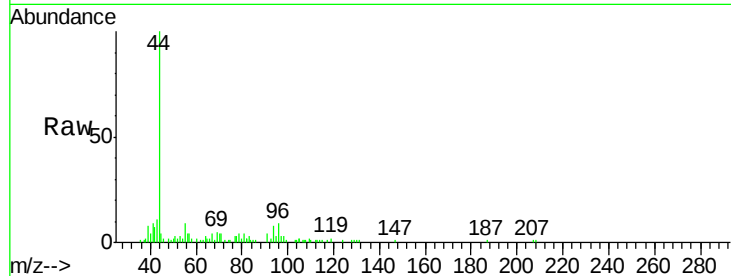
ClientSampleId :

Tot Ion: 94 Resp: 931

Ion Ratio Lower Upper

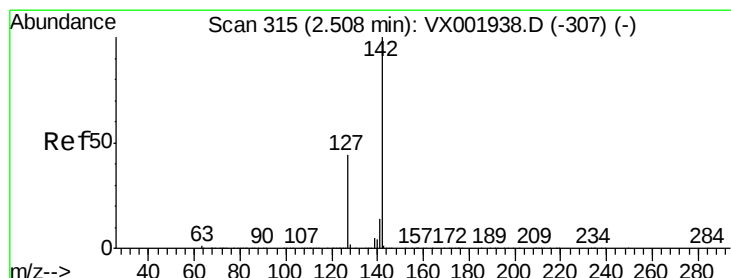
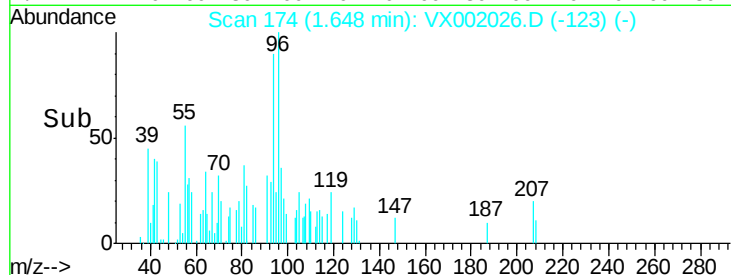
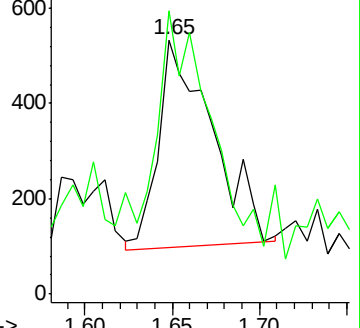
94 100

96 90.5 75.9 113.9



Abundance Ion 93.90 (93.60 to 94.60): VX001938.D (-167) (-)

Ion 95.90 (95.60 to 96.60): VX001938.D (-167) (-)



#10

Methyl Iodide

Concen: 0.27 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

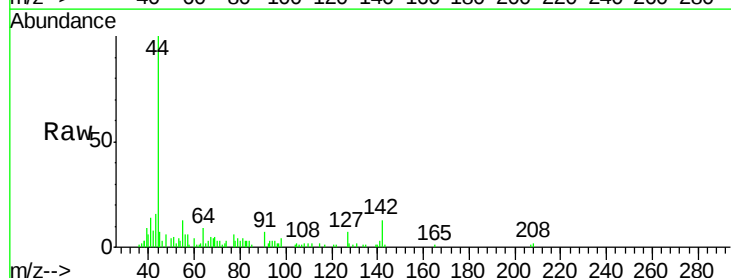
Tgt Ion: 142 Resp: 1481

Ion Ratio Lower Upper

142 100

127 55.2 35.5 53.3#

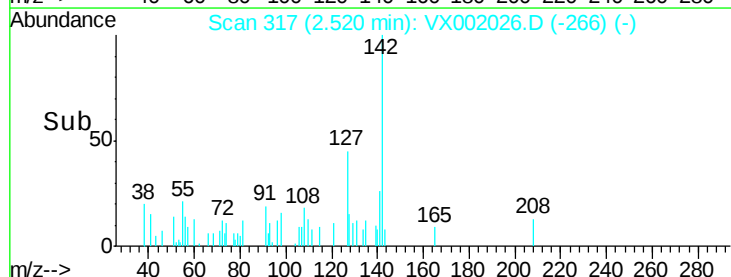
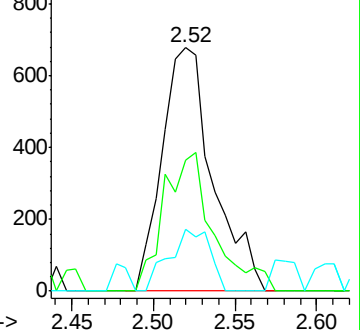
141 20.5 11.3 16.9#

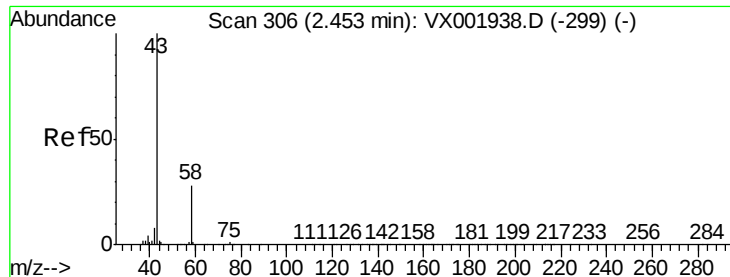


Abundance Ion 141.80 (141.50 to 142.50): VX001938.D (-307) (-)

Ion 126.80 (126.50 to 127.50): VX001938.D (-307) (-)

Ion 140.80 (140.50 to 141.50): VX001938.D (-307) (-)

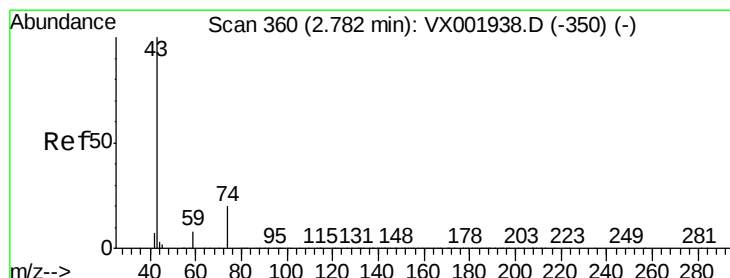
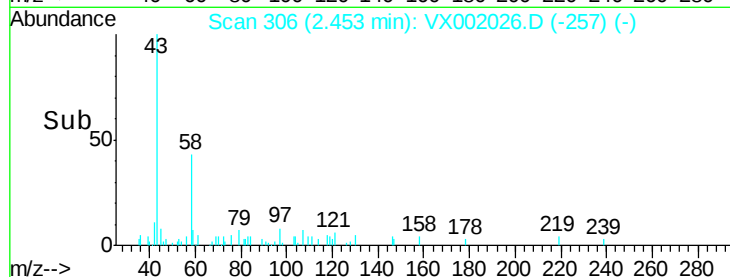
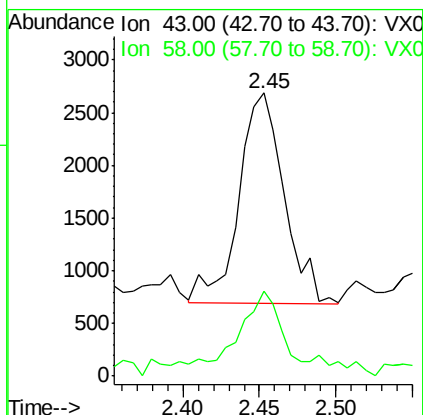
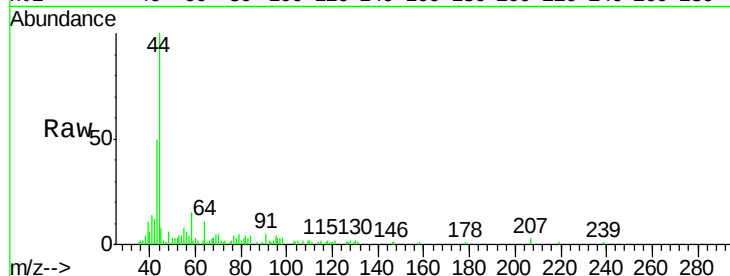




#16
Acetone
Concen: 1.86 ug/l
RT: 2.45 min Scan# 306
Delta R.T. -0.00 min
Lab File: VX002026.D
Acq: 26 May 2018 18:33

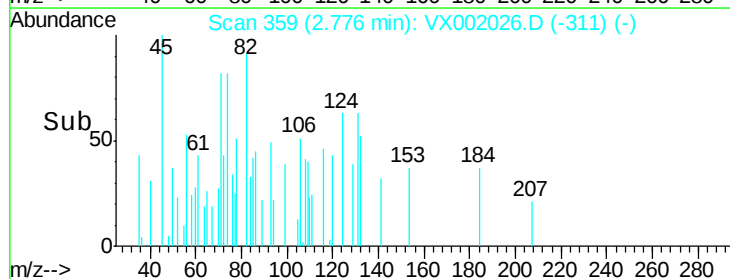
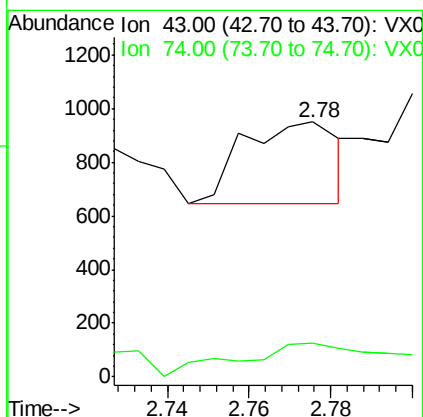
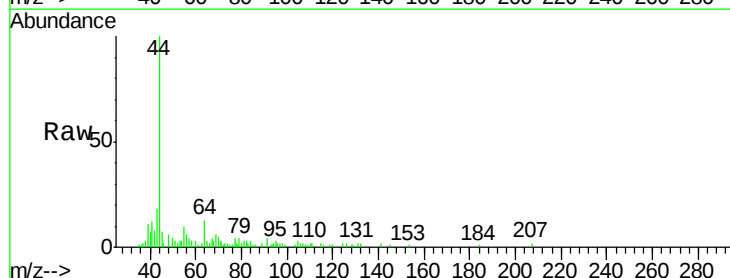
Instrument :
MSVOA_X
ClientSampleId :

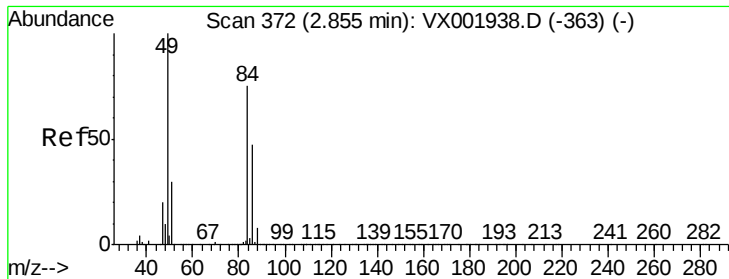
Tot Ion: 43 Resp: 4112
Ion Ratio Lower Upper
43 100
58 34.3 22.3 33.5#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002026.D
Acq: 26 May 2018 18:33

Tgt Ion: 43 Resp: 496
Ion Ratio Lower Upper
43 100
74 69.6 16.8 25.2#

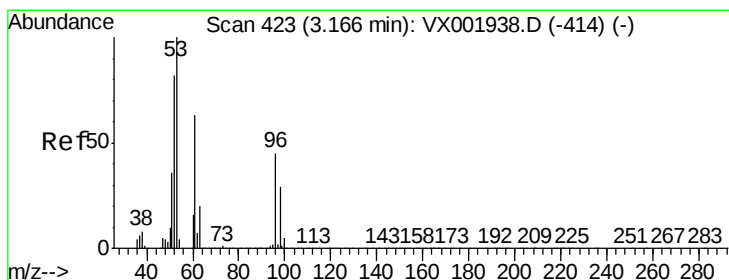
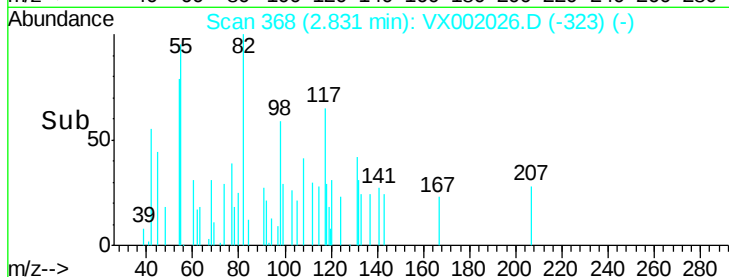
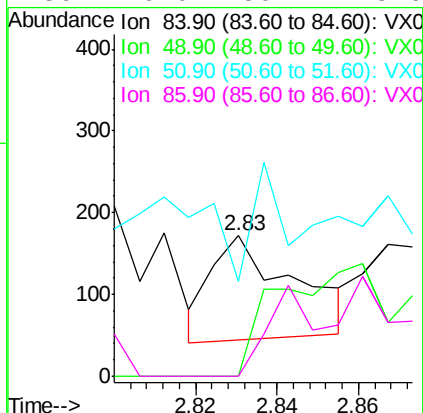
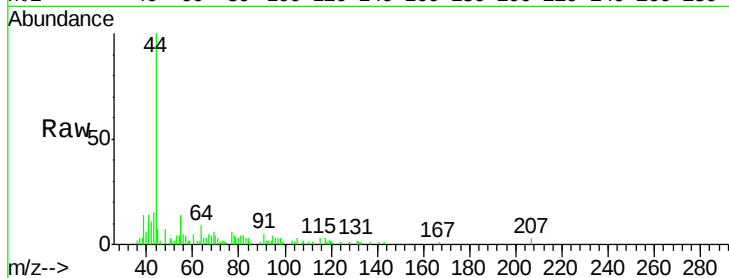




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.83 min Scan# 368
Delta R.T. -0.02 min
Lab File: VX002026.D
Acq: 26 May 2018 18:33

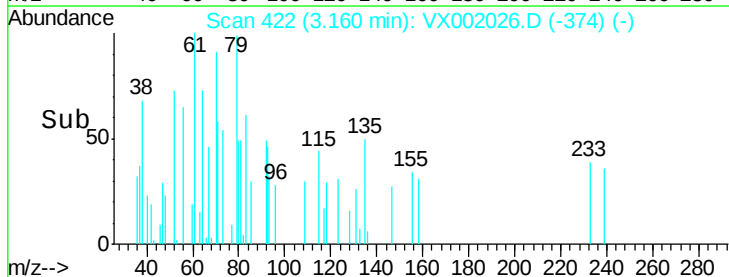
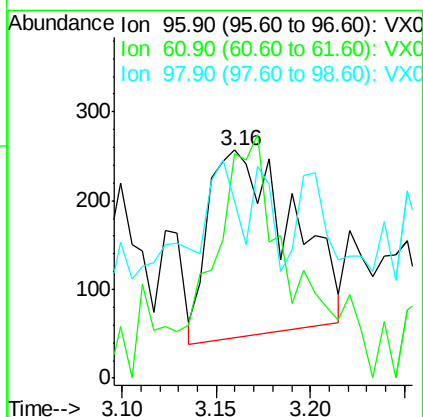
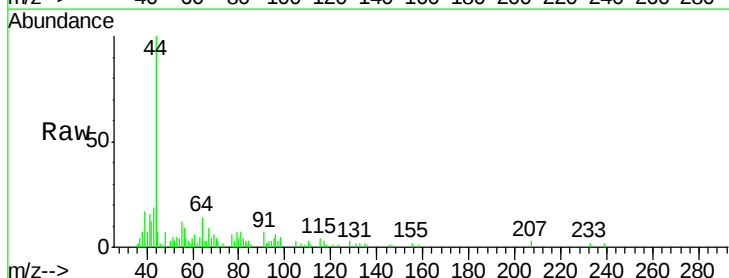
Instrument :
MSVOA_X
ClientSampled :

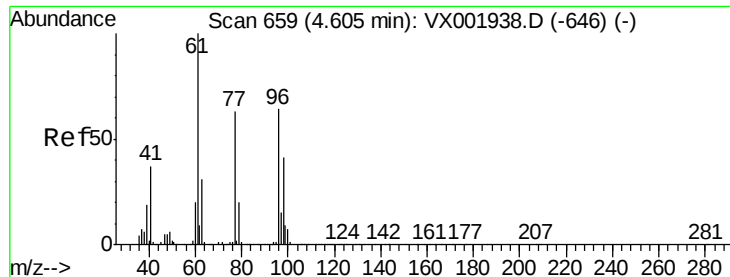
Tot Ion: 84 Resp: 179
Ion Ratio Lower Upper
84 100
49 0.0 107.2 160.8#
51 0.0 32.4 48.6#
86 0.0 50.4 75.6#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.16 min Scan# 422
Delta R.T. -0.01 min
Lab File: VX002026.D
Acq: 26 May 2018 18:33

Tgt Ion: 96 Resp: 649
Ion Ratio Lower Upper
96 100
61 99.0 113.3 169.9#
98 34.4 51.7 77.5#





#27

cis-1,2-Dichloroethene

Concen: 9.57 ua/l

RT: 4.60 min Scan# 659

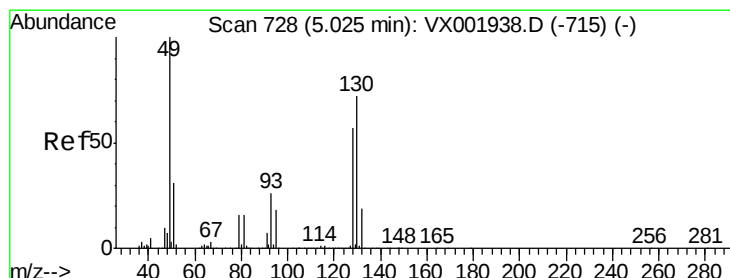
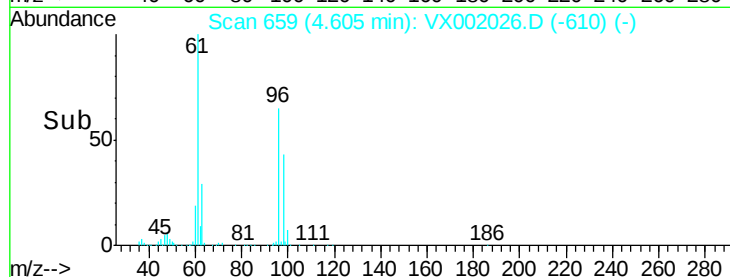
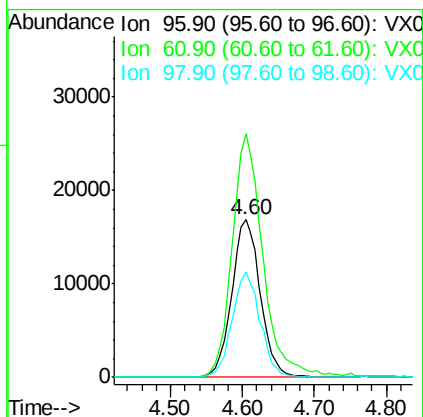
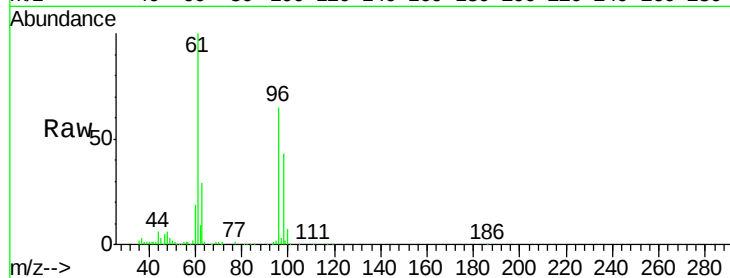
Delta R.T. -0.00 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	96	Resp:	46574
Ion	Ratio	Lower	Upper
96	100		
61	166.1	0.0	348.4
98	65.0	0.0	128.6



#28

Bromochloromethane

Concen: Below Cal

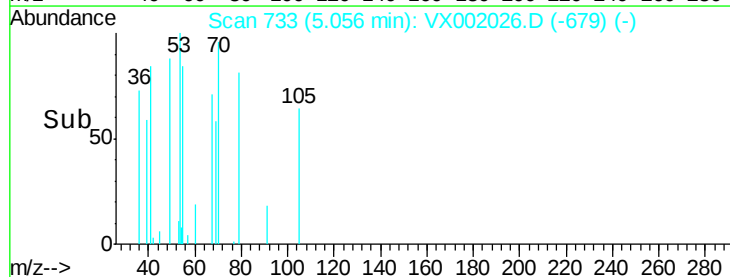
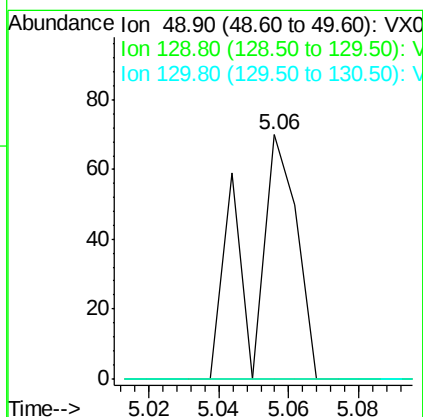
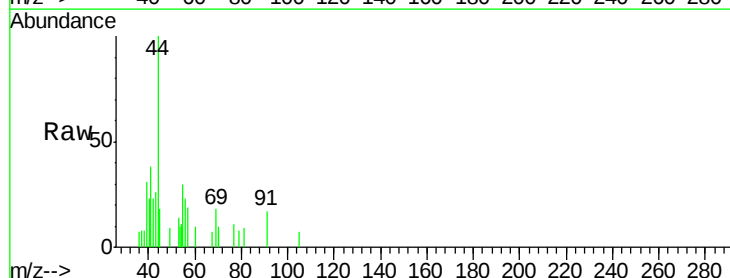
RT: 5.06 min Scan# 733

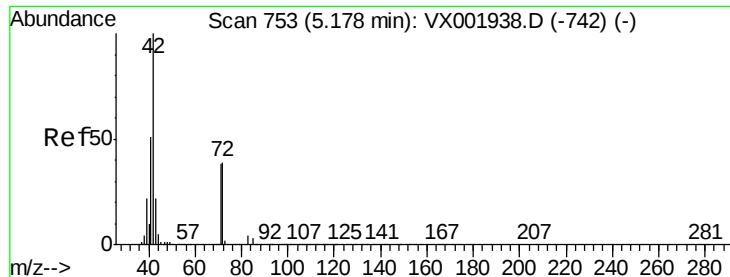
Delta R.T. 0.03 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Tgt Ion:	49	Resp:	65
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.8
130	0.0	59.4	89.2#





#29

Tetrahydrofuran

Concen: 0.27 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :

MSVOA_X

ClientSampleId :

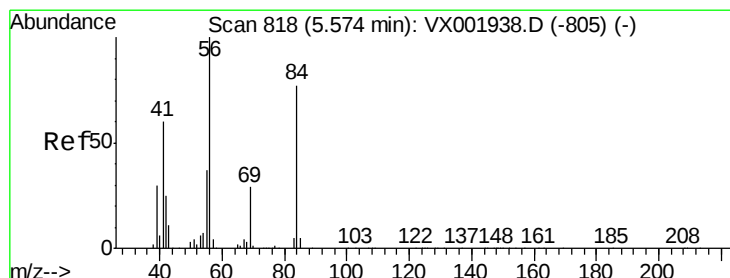
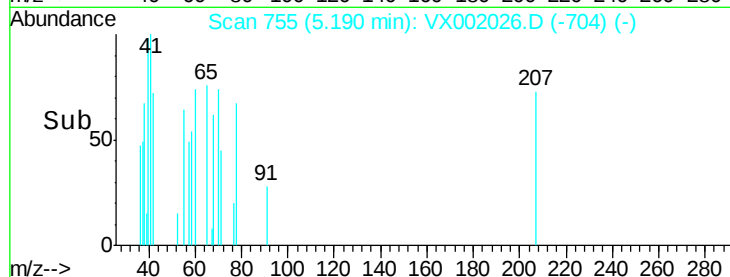
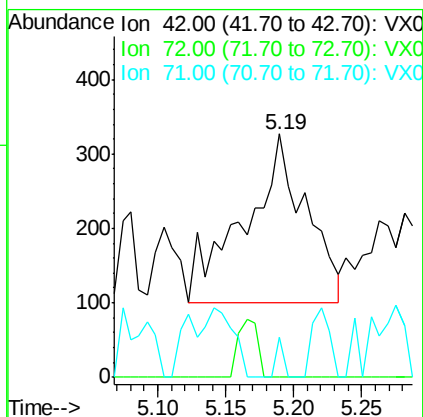
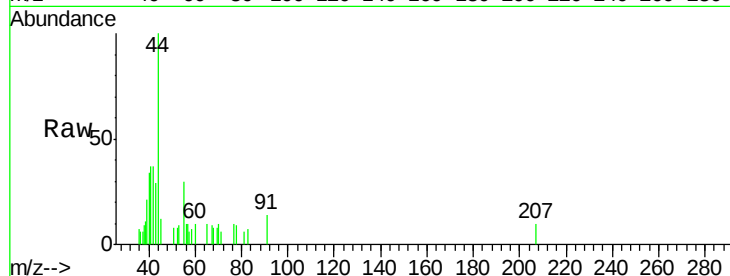
Tot Ion: 42 Resp: 709

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 2.7 29.5 44.3#



#31

Cyclohexane

Concen: 0.75 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.10 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

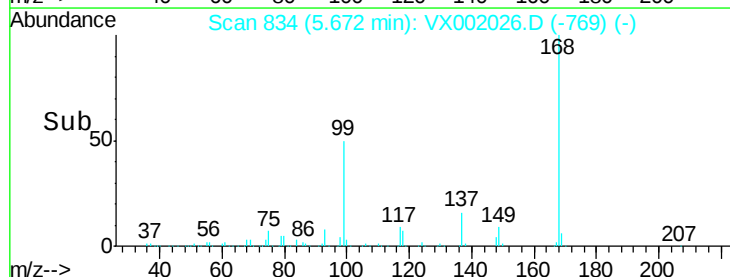
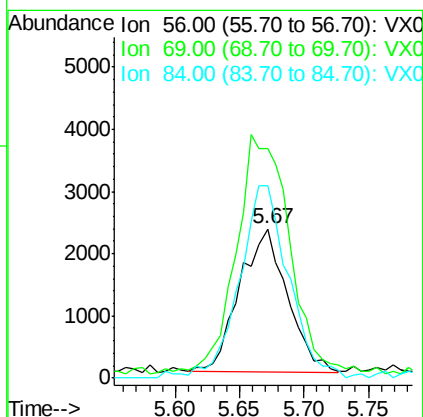
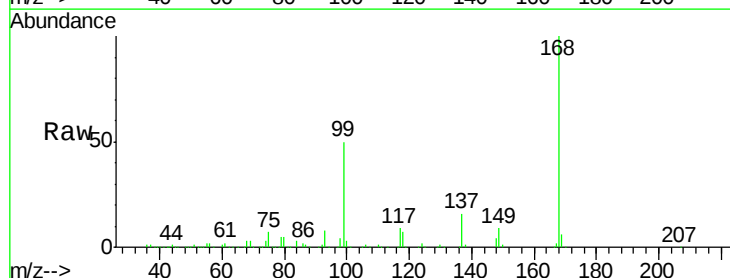
Tgt Ion: 56 Resp: 5918

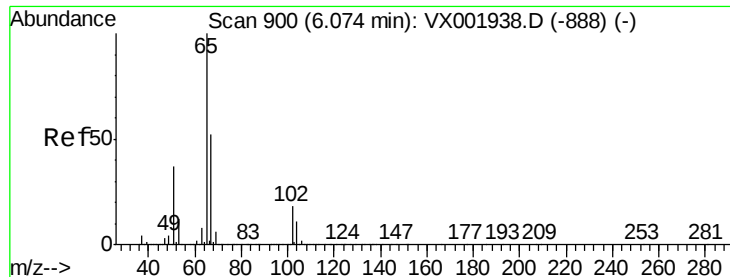
Ion Ratio Lower Upper

56 100

69 156.4 23.1 34.7#

84 132.6 62.0 93.0#

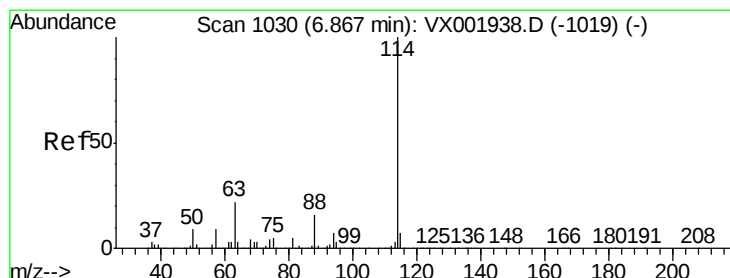
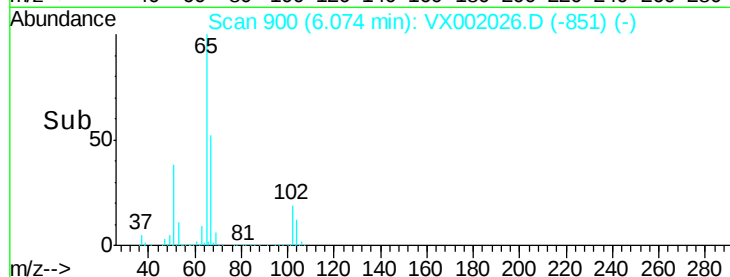
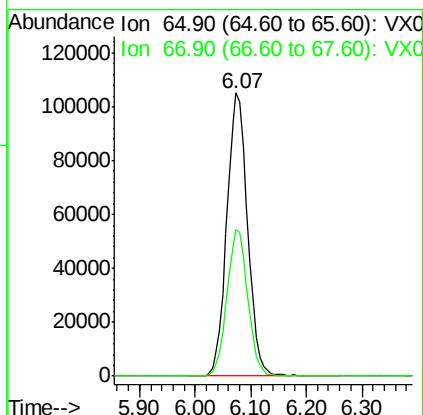
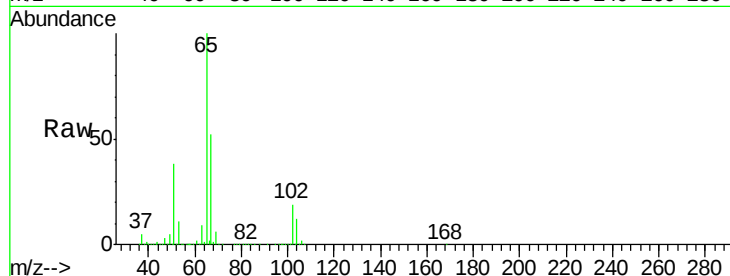




#33
 1,2-Dichloroethane-d4
 Concen: 47.32 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002026.D
 Acq: 26 May 2018 18:33

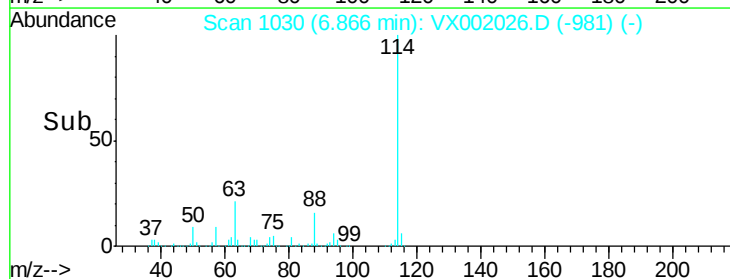
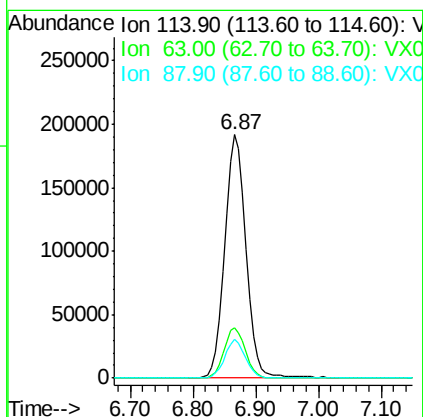
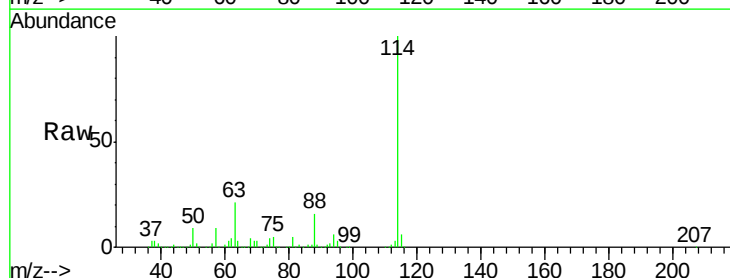
Instrument :
 MSVOA_X
 ClientSampleId :

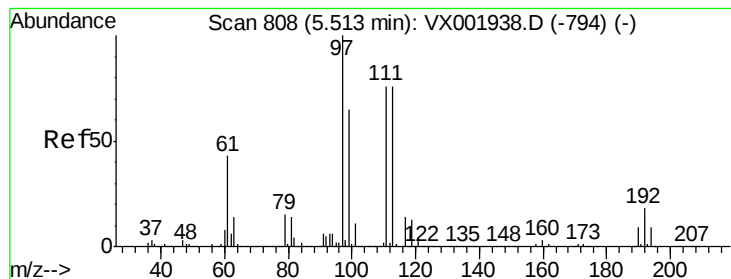
Tot Ion: 65 Resp: 270732
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002026.D
 Acq: 26 May 2018 18:33

Tgt Ion: 114 Resp: 449818
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.2
 88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.62 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :

MSVOA_X

ClientSampleId :

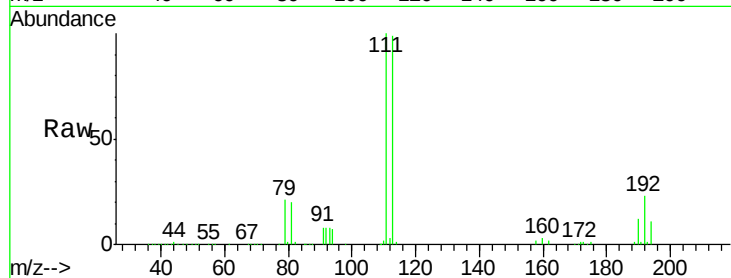
Tot Ion:113 Resp: 209726

Ion Ratio Lower Upper

113 100

111 102.1 82.0 123.0

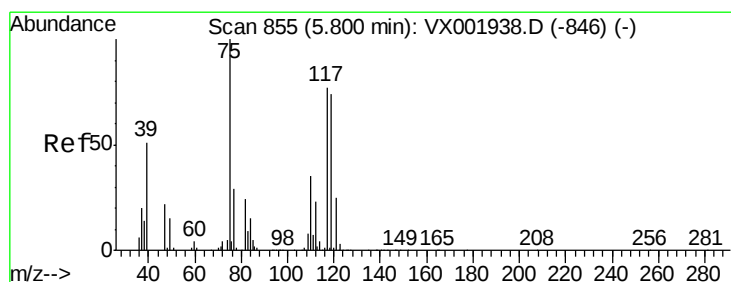
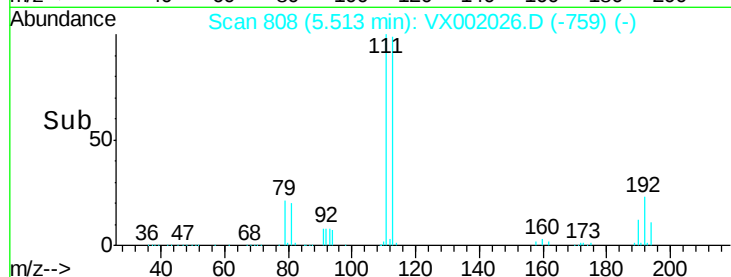
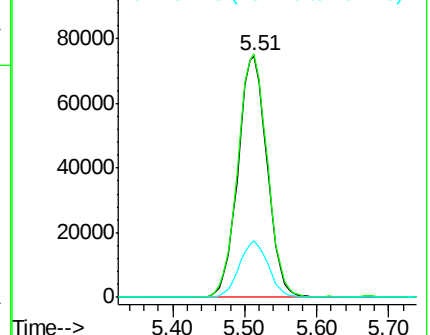
192 23.2 18.9 28.3



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.57 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

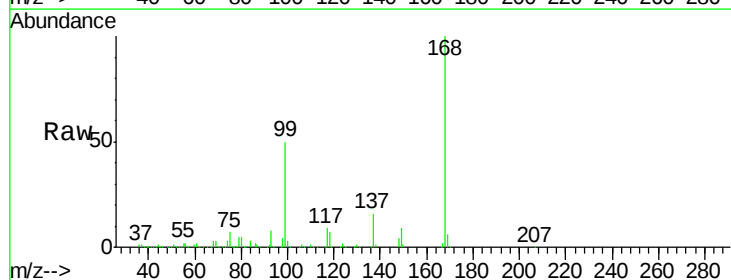
Tgt Ion: 75 Resp: 22317

Ion Ratio Lower Upper

75 100

110 10.6 17.4 52.2#

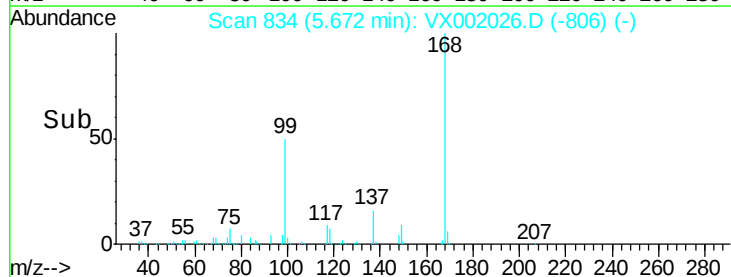
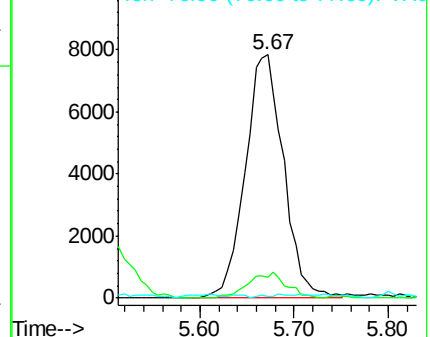
77 1.0 24.4 36.6#

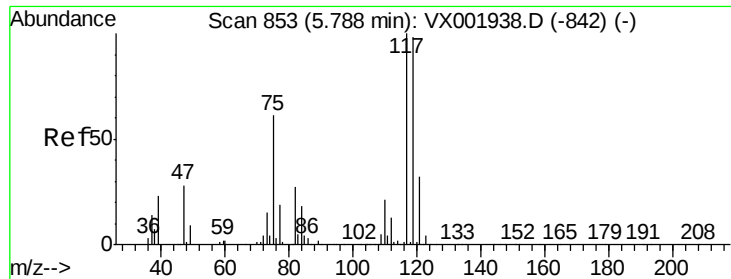


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 3.99 ua/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :

MSVOA_X

ClientSampled :

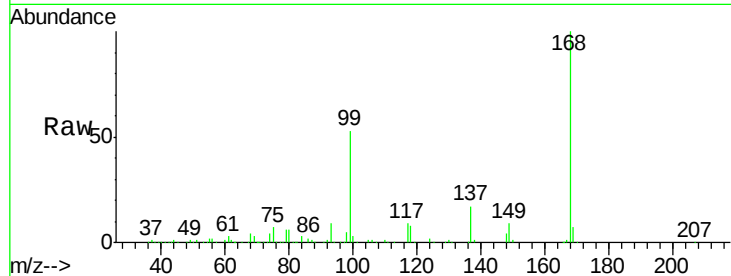
Tot Ion:117 Resp: 29106

Ion Ratio Lower Upper

117 100

119 4.3 78.5 117.7#

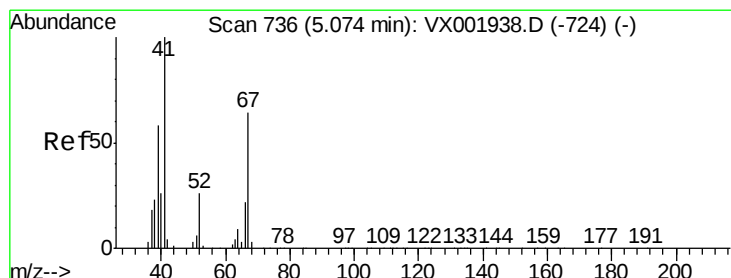
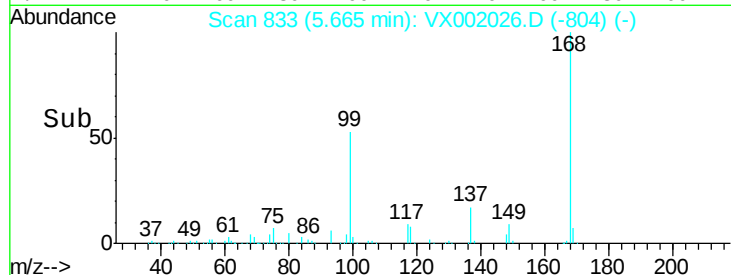
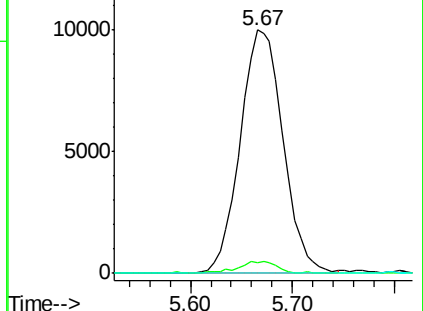
121 0.0 25.5 38.3#



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



#41

Methacrylonitrile

Concen: Below Cal

RT: 5.06 min Scan# 734

Delta R.T. -0.01 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Tgt Ion: 41 Resp: 106

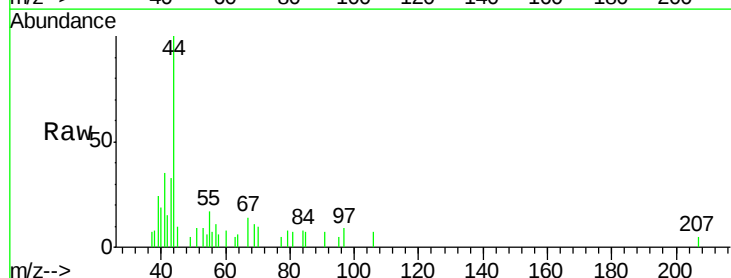
Ion Ratio Lower Upper

41 100

39 0.0 46.0 69.0#

67 96.2 50.6 75.8#

52 0.0 21.9 32.9#

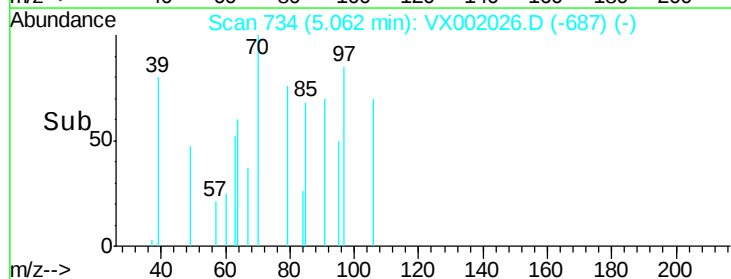
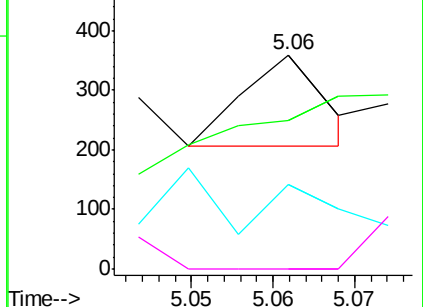


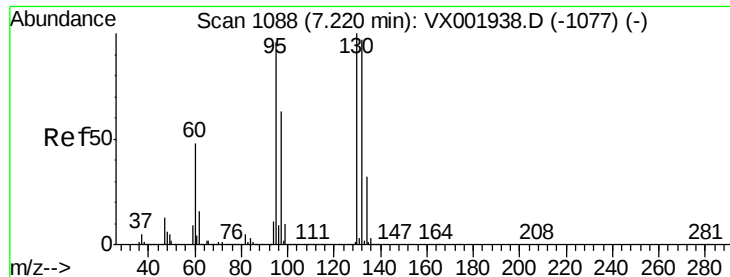
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#44

Trichloroethene

Concen: 5.93 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. -0.00 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :

MSVOA_X

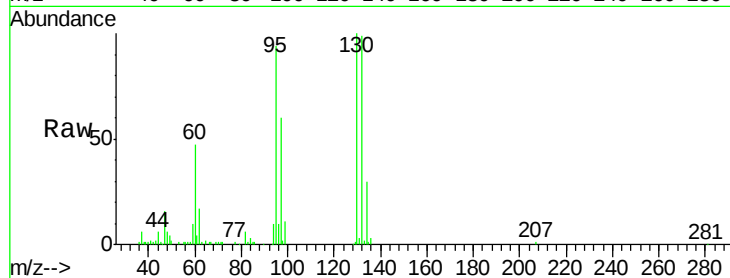
ClientSampleId :

Tot Ion:130 Resp: 31698

Ion Ratio Lower Upper

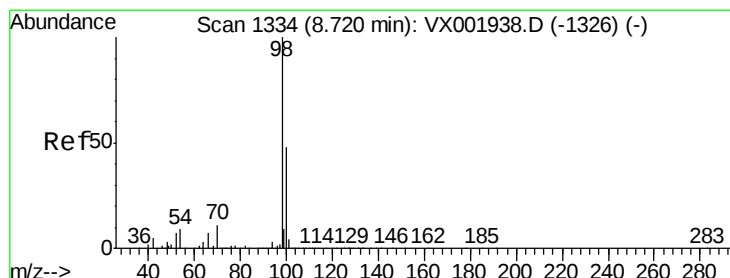
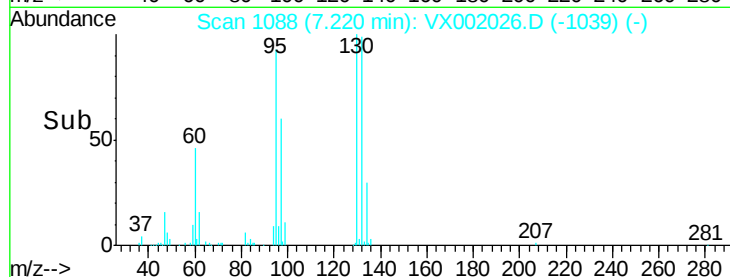
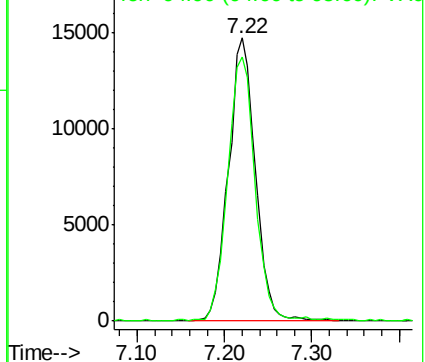
130 100

95 93.2 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.93 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002026.D

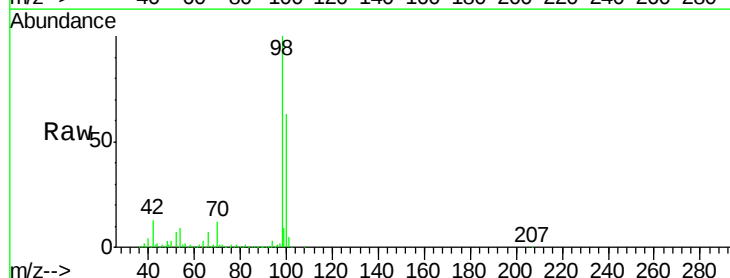
Acq: 26 May 2018 18:33

Tgt Ion: 98 Resp: 796849

Ion Ratio Lower Upper

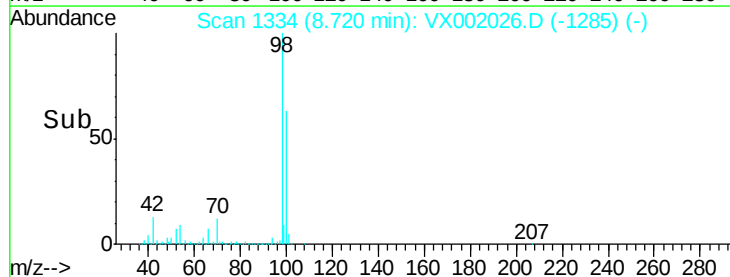
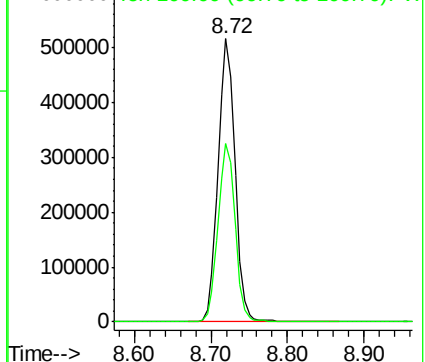
98 100

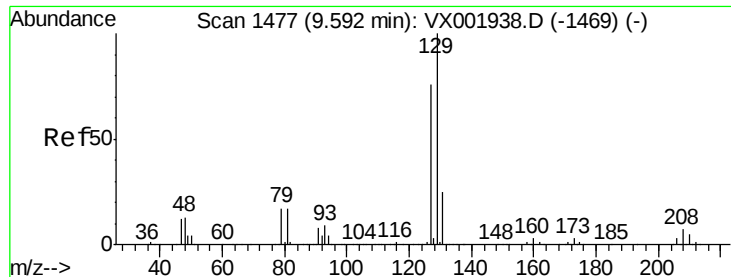
100 63.5 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 1.39 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

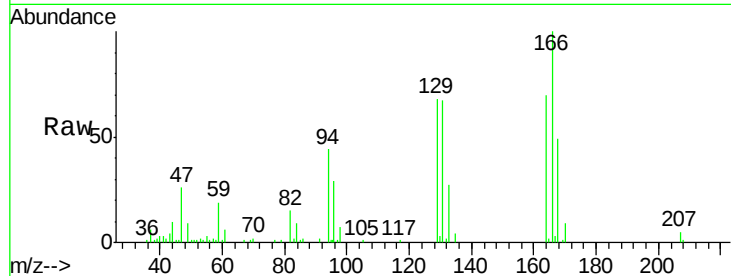
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 7999

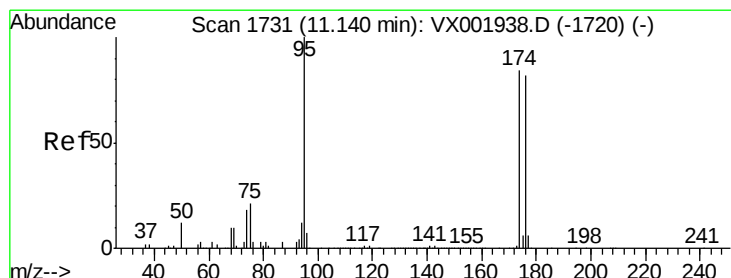
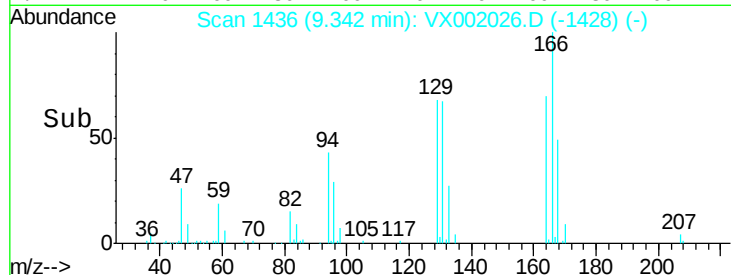
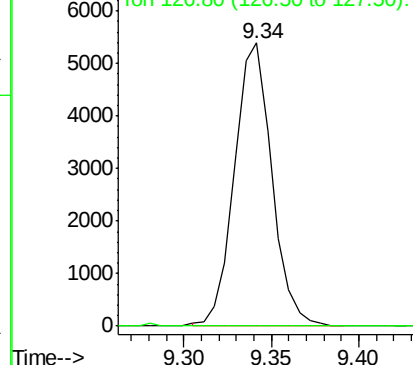
Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.9#



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



#62

4-Bromofluorobenzene

Concen: 44.05 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

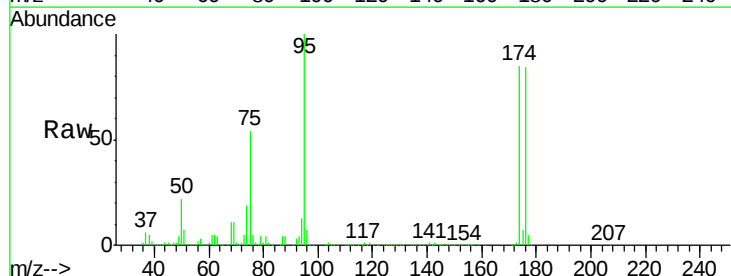
Tgt Ion: 95 Resp: 280663

Ion Ratio Lower Upper

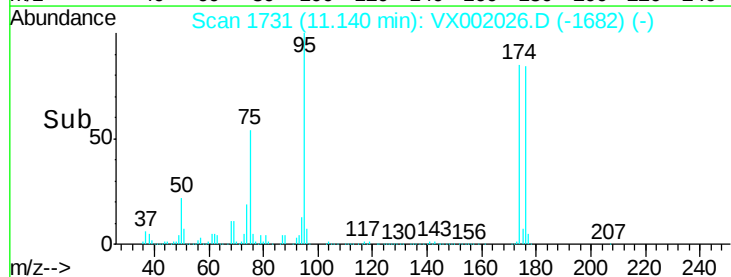
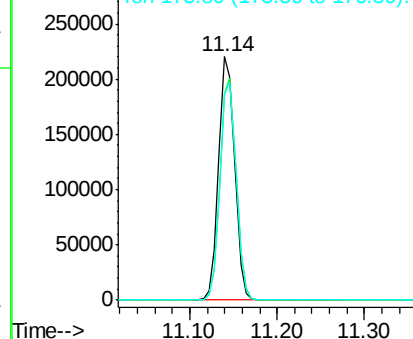
95 100

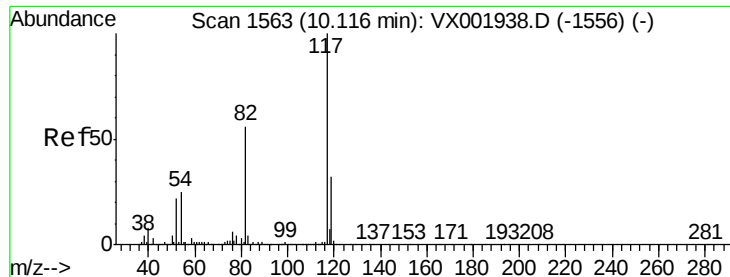
174 90.9 0.0 178.8

176 89.6 0.0 175.6



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





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :

MSVOA_X

ClientSampleId :

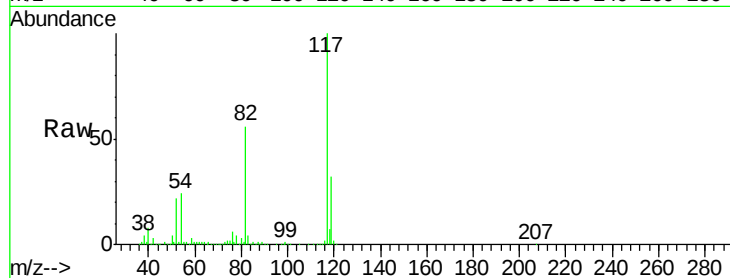
Tot Ion:117 Resp: 398005

Ion Ratio Lower Upper

117 100

82 56.3 44.8 67.2

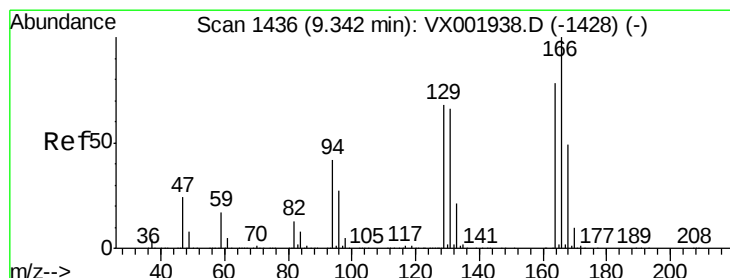
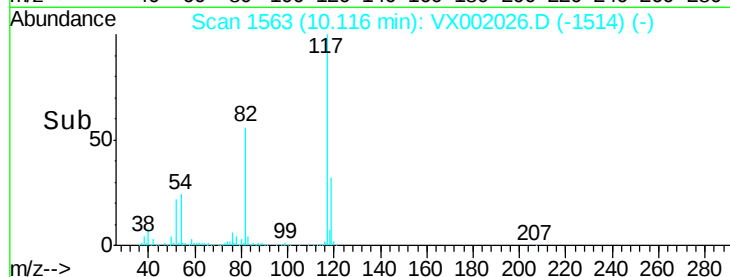
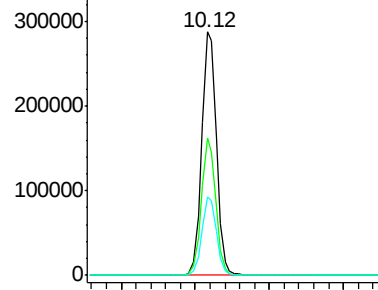
119 32.3 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 1.55 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.01 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Tgt Ion:164 Resp: 8860

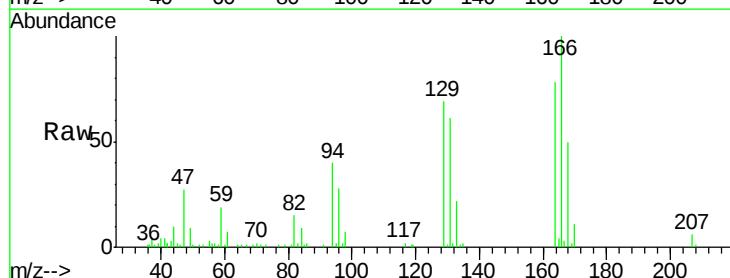
Ion Ratio Lower Upper

164 100

166 127.8 102.7 154.1

129 87.6 70.3 105.5

131 77.9 68.2 102.4

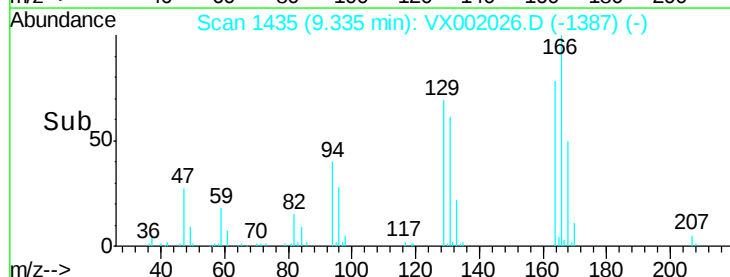
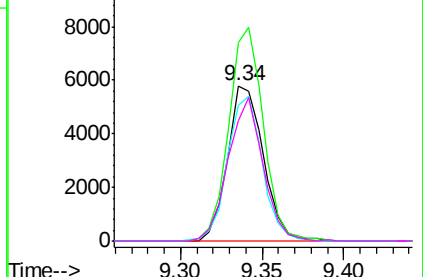


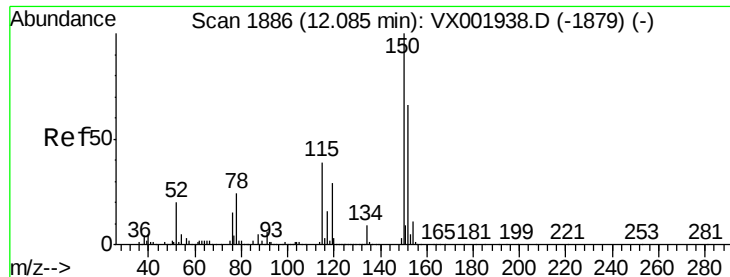
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :

MSVOA_X

ClientSampled :

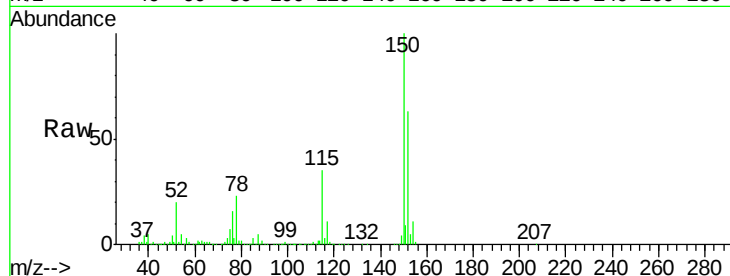
Tot Ion:152 Resp: 212785

Ion Ratio Lower Upper

152 100

115 55.9 42.3 126.8

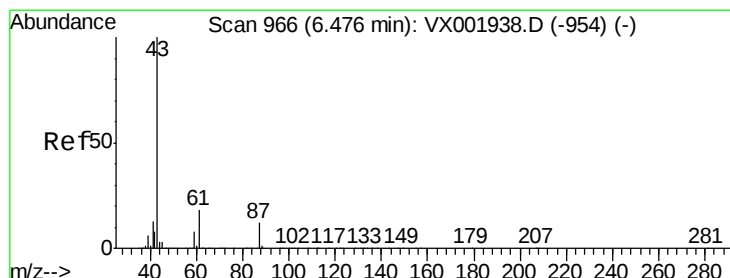
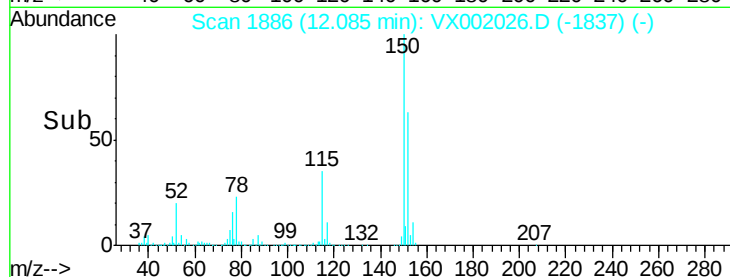
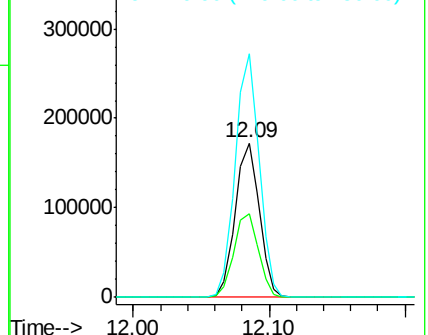
150 156.8 0.0 351.0



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.50 min Scan# 970

Delta R.T. 0.02 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Tgt Ion: 43 Resp: 95

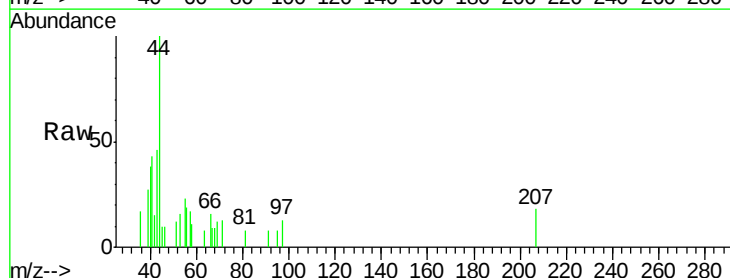
Ion Ratio Lower Upper

43 100

70 95.8 0.1 0.1#

55 51.6 0.1 0.1#

61 0.0 14.5 21.7#

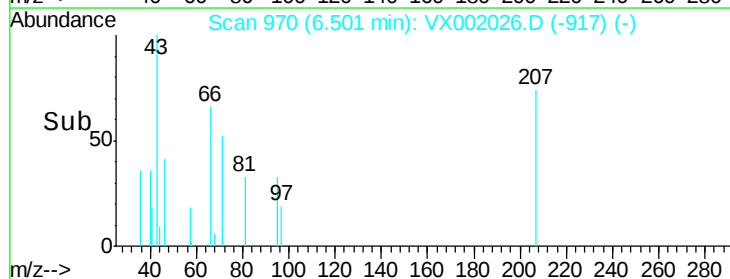
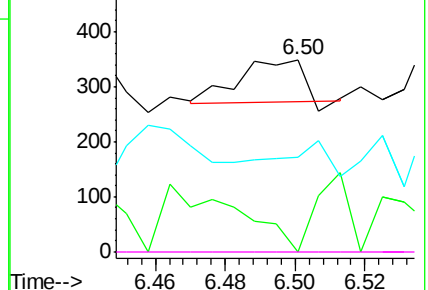


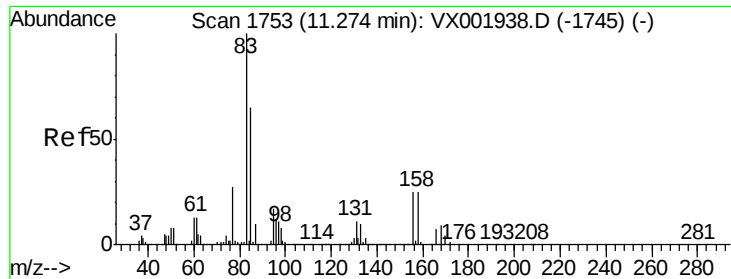
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 11.29 min Scan# 1756

Delta R.T. 0.02 min

Lab File: VX002026.D

Acq: 26 May 2018 18:33

Instrument :

MSVOA_X

ClientSampleId :

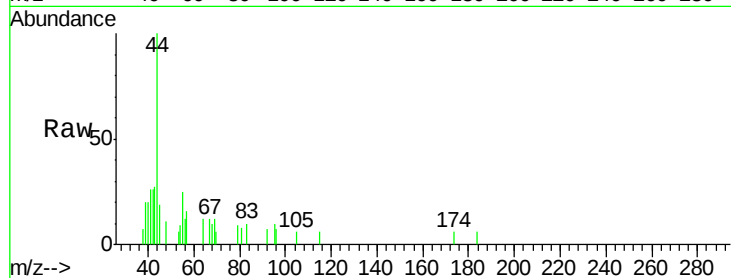
Tot Ion: 83 Resp: 57

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

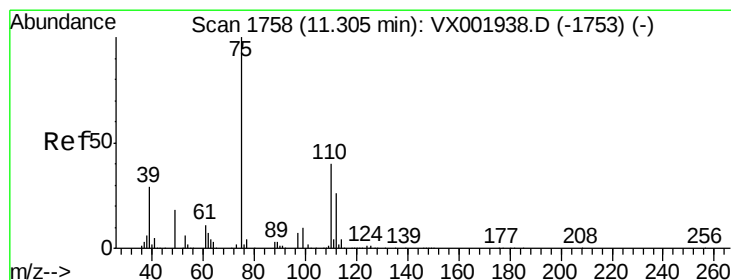
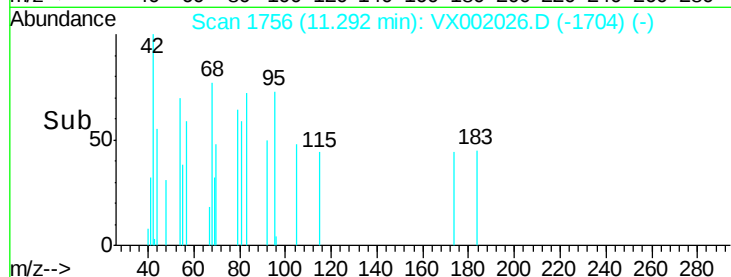
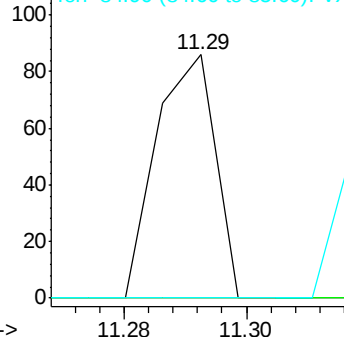
85 0.0 32.6 97.7#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): VX0

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 28.93 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002026.D

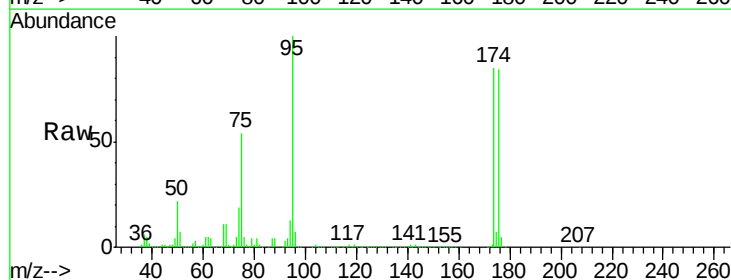
Acq: 26 May 2018 18:33

Tgt Ion: 75 Resp: 147883

Ion Ratio Lower Upper

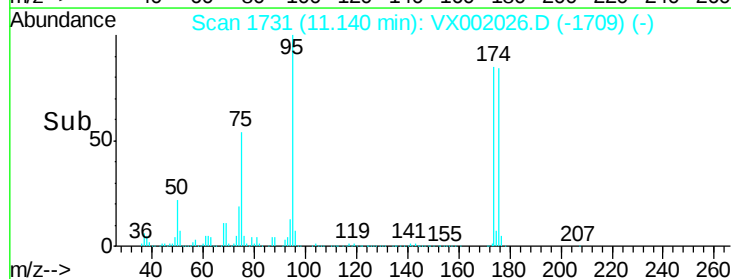
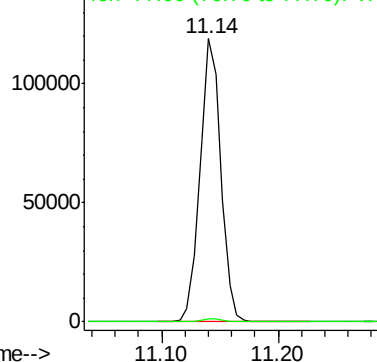
75 100

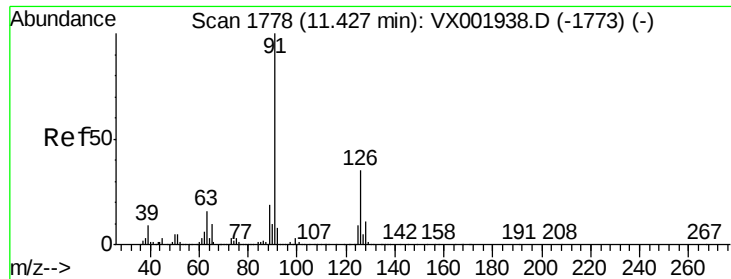
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

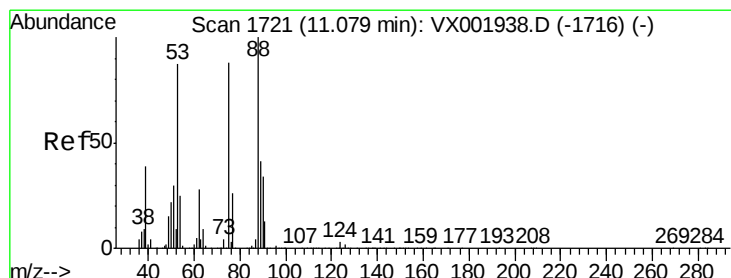
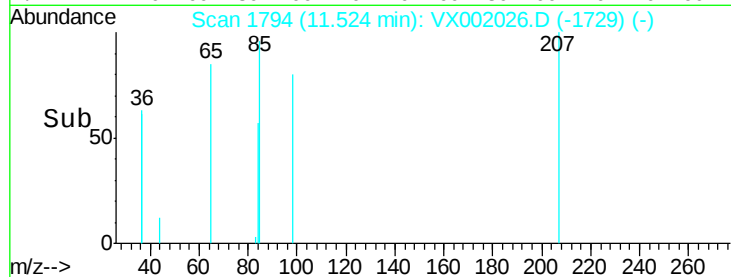
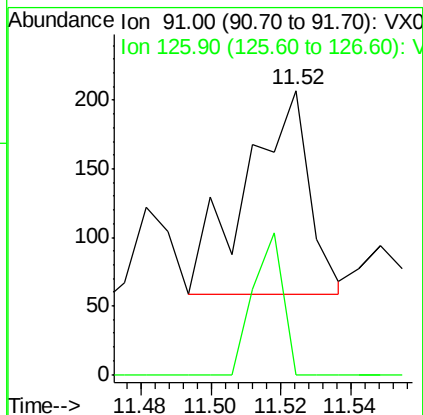
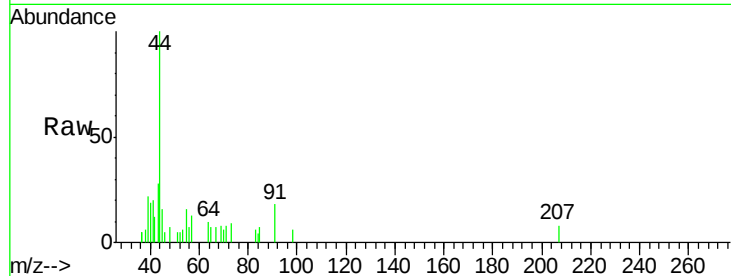




#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 11.52 min Scan# 1794
 Delta R.T. 0.10 min
 Lab File: VX002026.D
 Acq: 26 May 2018 18:33

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 91 Resp: 188
 Ion Ratio Lower Upper
 91 100
 126 31.9 17.4 52.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.54 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002026.D
 Acq: 26 May 2018 18:33

Tgt Ion: 75 Resp: 147883
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.0 117.0#
 89 0.0 39.4 59.2#

