

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052718\
 Data File : VX002080.D
 Acq On : 27 May 2018 20:24
 Operator : JC/MD
 Sample : J3128-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 29 03:01:18 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	305135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	428445	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	382885	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	207739	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	198211	36.34	ug/l	0.00
Spiked Amount			Recovery	=	72.68%	
35) Dibromofluoromethane	5.51	113	153455	35.82	ug/l	0.00
Spiked Amount			Recovery	=	71.64%	
50) Toluene-d8	8.72	98	601131	38.75	ug/l	0.00
Spiked Amount			Recovery	=	77.50%	
62) 4-Bromofluorobenzene	11.14	95	212016	34.93	ug/l	0.00
Spiked Amount			Recovery	=	69.86%	

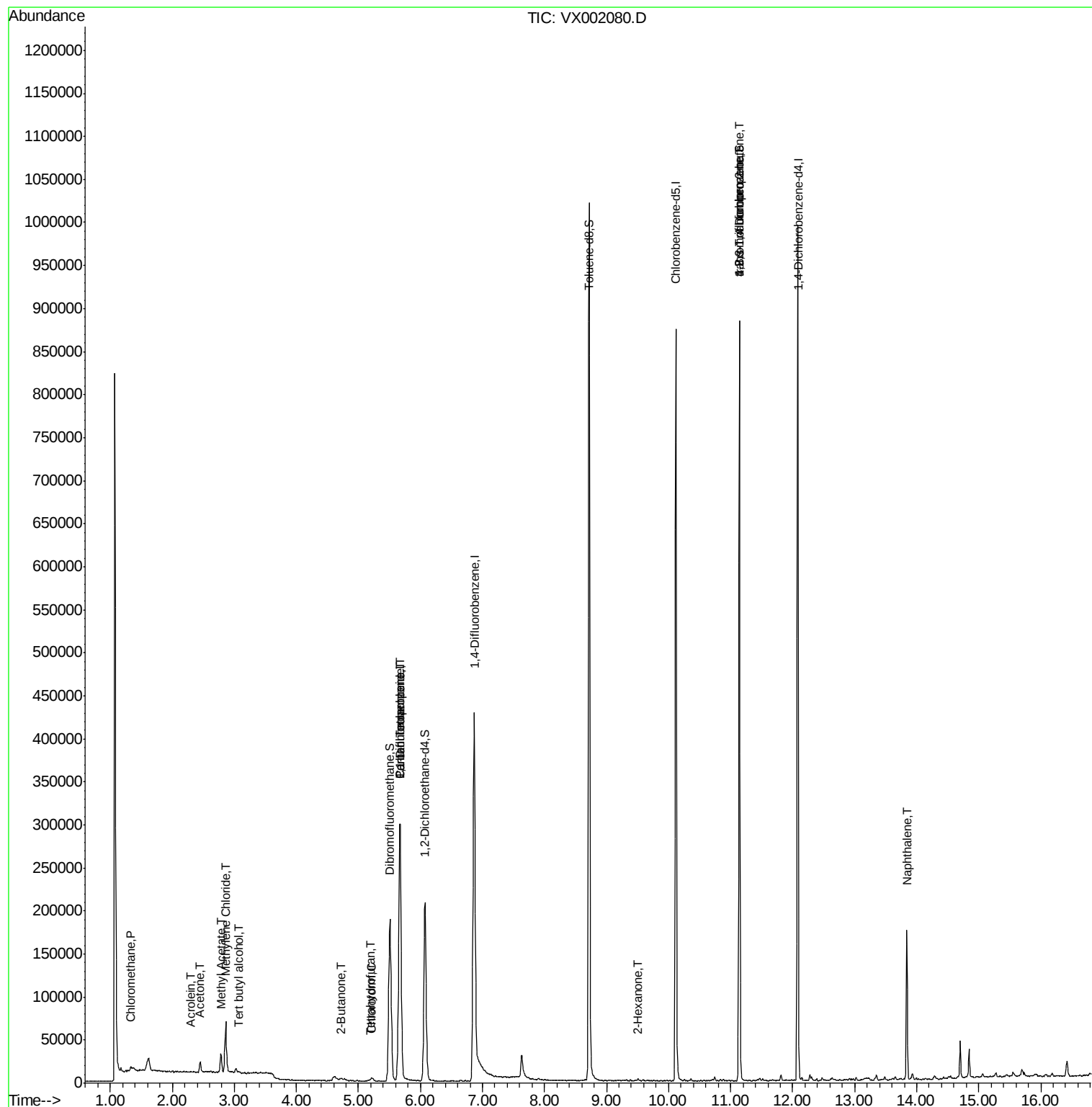
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	100	Below Cal	#	41
3) Chloromethane	1.33	50	2242	0.48	ug/l	96
5) Bromomethane	1.65	94	434	Below Cal	#	27
11) Tert butyl alcohol	3.06	59	1474	1.38	ug/l	80
13) Acrolein	2.31	56	382	0.83	ug/l	51
16) Acetone	2.45	43	13114	6.23	ug/l	91
18) Methyl Acetate	2.78	43	26220	4.13	ug/l	99
20) Methylene Chloride	2.86	84	26979	5.93	ug/l	98
21) trans-1,2-Dichloroethene	3.17	96	139	Below Cal	#	19
25) 2-Butanone	4.71	43	4738	1.23	ug/l	98
28) Bromochloromethane	5.04	49	46	Below Cal	#	14
29) Tetrahydrofuran	5.18	42	1020	0.41	ug/l	40
30) Chloroform	5.22	83	3653	0.45	ug/l	90
36) 1,1-Dichloropropene	5.67	75	21064	3.53	ug/l	51
38) Carbon Tetrachloride	5.67	117	28390	4.09	ug/l	14
41) Methacrylonitrile	5.08	41	34	Below Cal	#	21
59) 2-Hexanone	9.51	43	1595	0.27	ug/l	100
74) N-amyl acetate	6.48	43	135	Below Cal	#	60
75) 1,1,2,2-Tetrachloroethane	11.27	83	21	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.14	75	112269	22.50	ug/l	33
79) 2-Chlorotoluene	11.43	91	444	Below Cal	#	40
81) trans-1,4-Dichloro-2-buten	11.14	75	112269	54.08	ug/l	10
95) Naphthalene	13.84	128	105440	5.62	ug/l	100

(#) = 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: VX002080.D

Acq: 27 May 2018 20:24

Instrument :

MSVOA_X

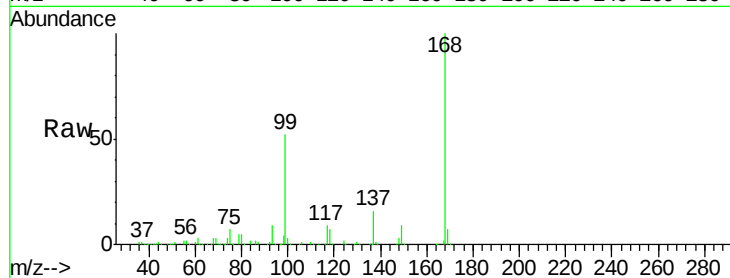
ClientSampleId :

Tot Ion:168 Resp: 305135

Ion Ratio Lower Upper

168 100

99 51.8 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

120000

100000

80000

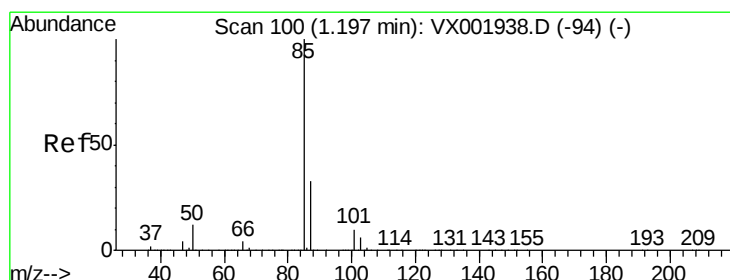
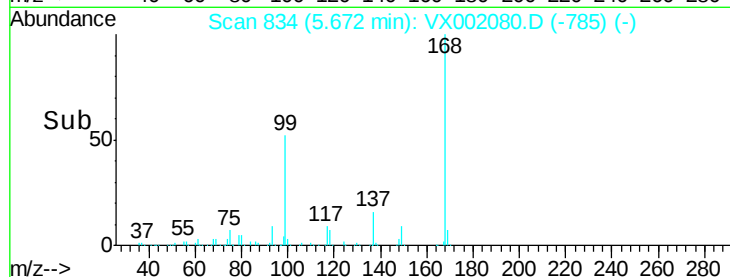
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.19 min Scan# 99

Delta R.T. -0.01 min

Lab File: VX002080.D

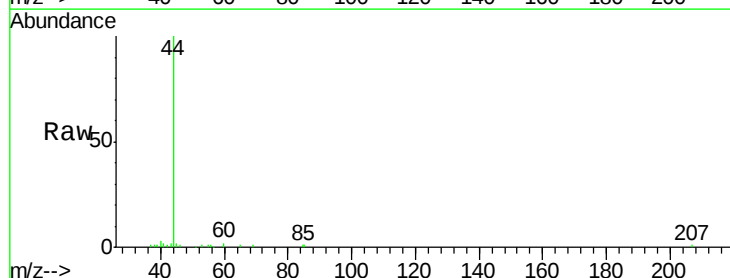
Acq: 27 May 2018 20:24

Tgt Ion: 85 Resp: 100

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

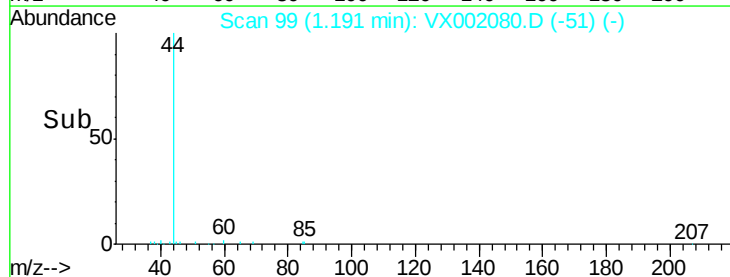
150

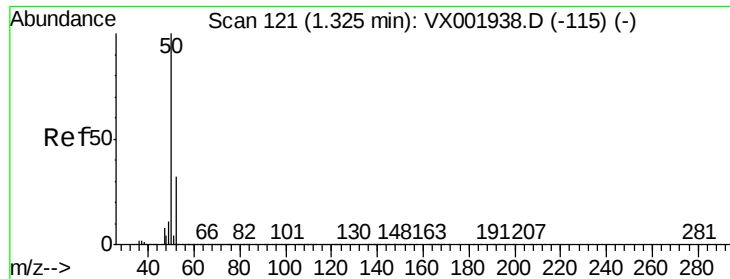
100

50

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: 0.48 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

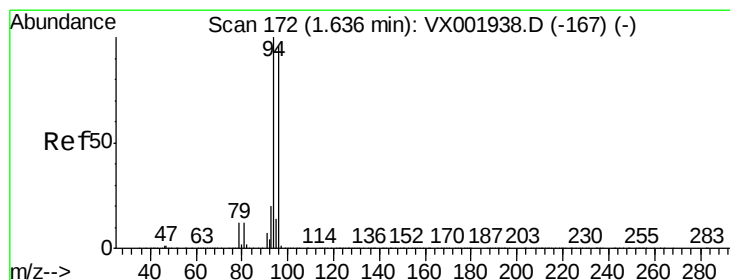
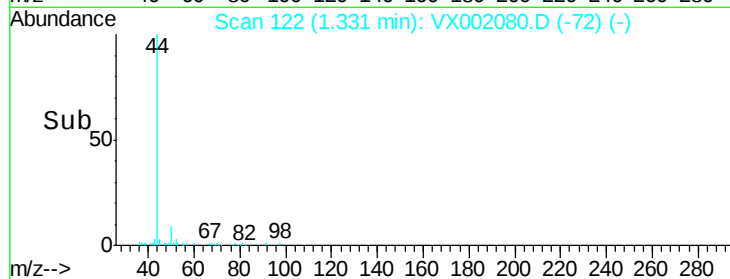
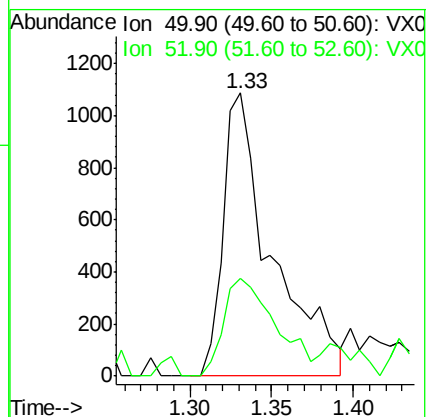
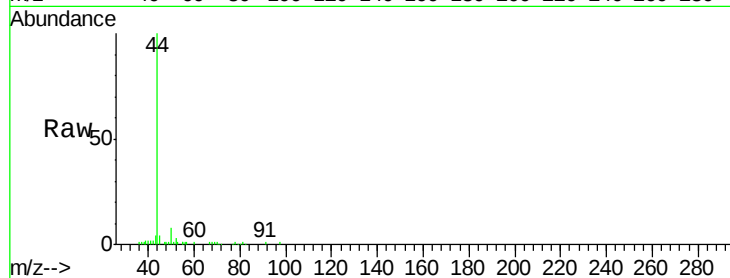
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 50 Resp: 2242

Ion Ratio Lower Upper

50 100

52 34.7 26.0 39.0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002080.D

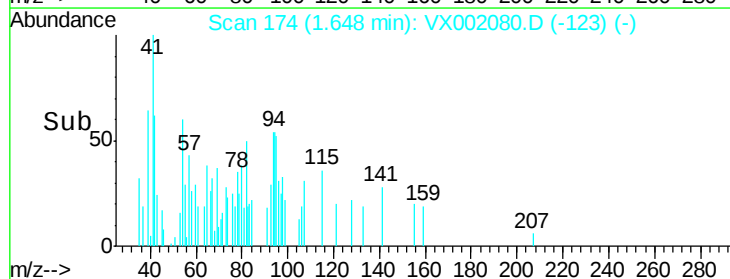
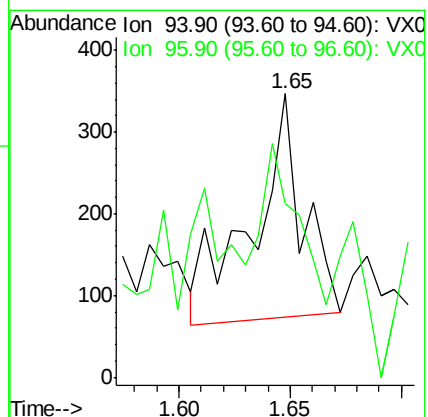
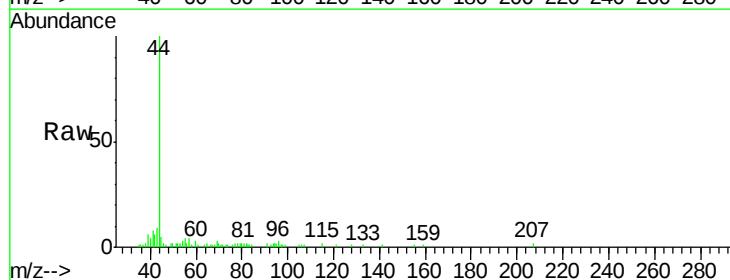
Acq: 27 May 2018 20:24

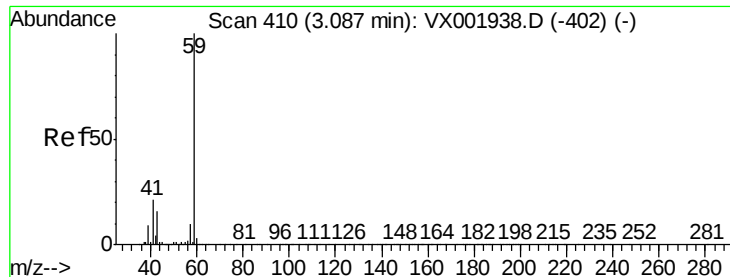
Tgt Ion: 94 Resp: 434

Ion Ratio Lower Upper

94 100

96 24.0 75.9 113.9#



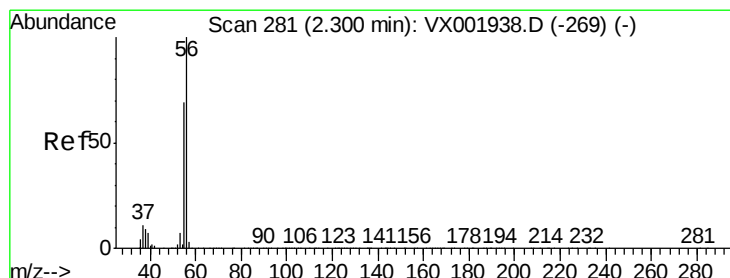
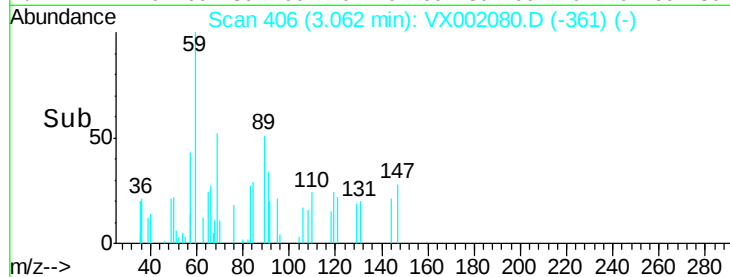
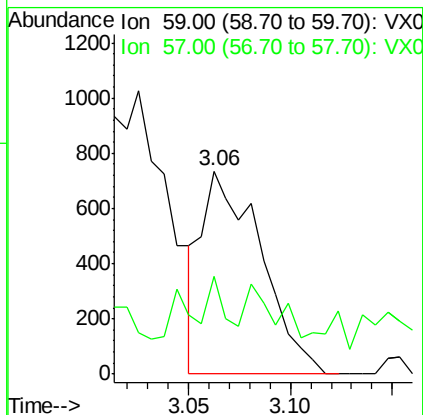
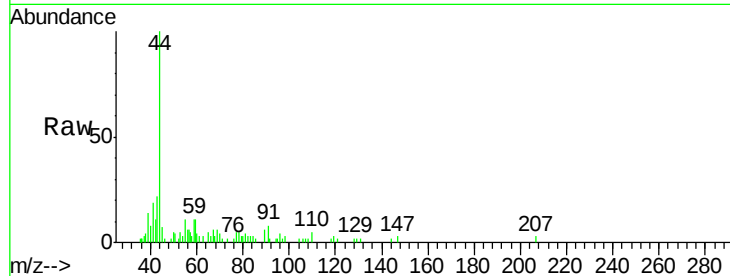


#11

Tert butyl alcohol
Concen: 1.38 ug/l
RT: 3.06 min Scan# 406
Delta R.T. -0.02 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

Instrument :
MSVOA_X
ClientSampled :

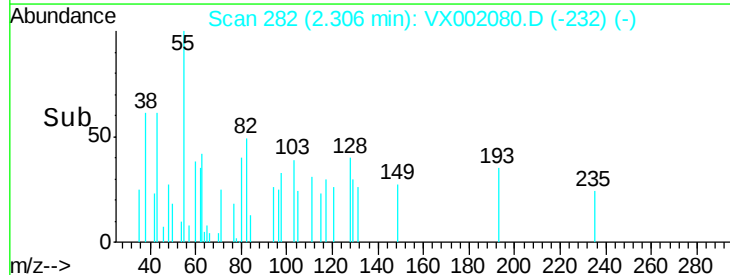
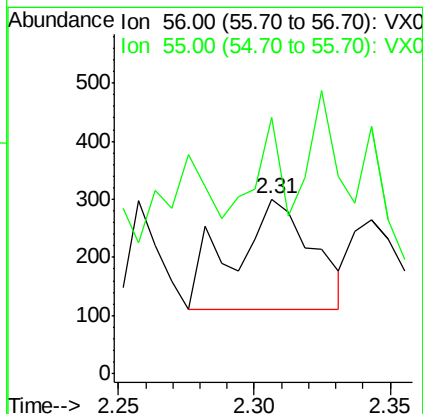
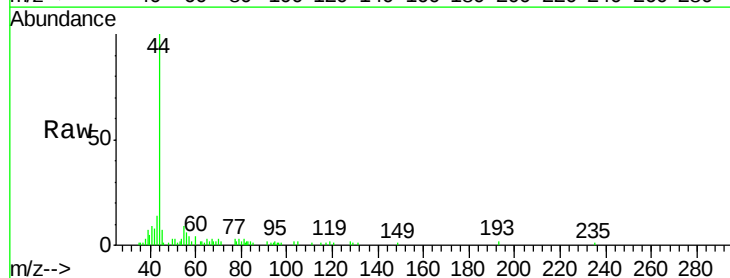
Tot Ion: 59 Resp: 1474
Ion Ratio Lower Upper
59 100
57 18.7 8.9 13.3#

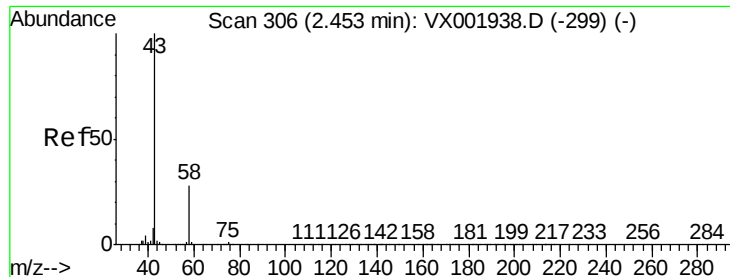


#13

Acrolein
Concen: 0.83 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

Tgt Ion: 56 Resp: 382
Ion Ratio Lower Upper
56 100
55 30.9 56.8 85.2#





#16

Acetone

Concen: 6.23 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Instrument :

MSVOA_X

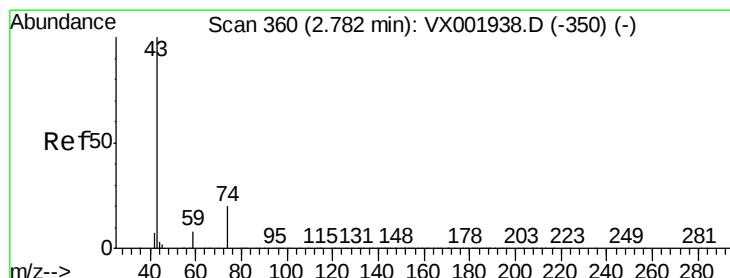
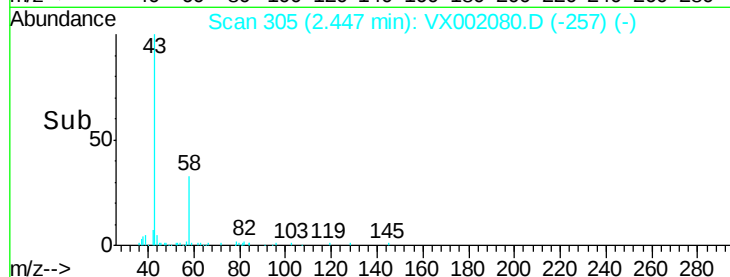
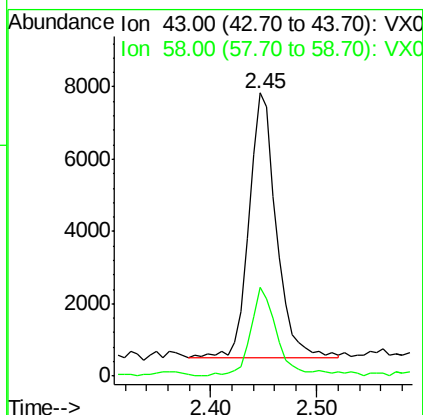
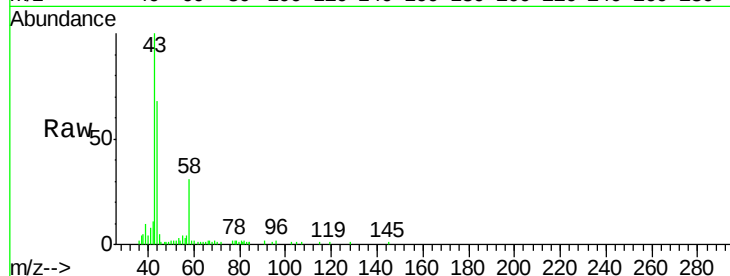
ClientSampleId :

Tot Ion: 43 Resp: 13114

Ion Ratio Lower Upper

43 100

58 32.7 22.3 33.5



#18

Methyl Acetate

Concen: 4.13 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002080.D

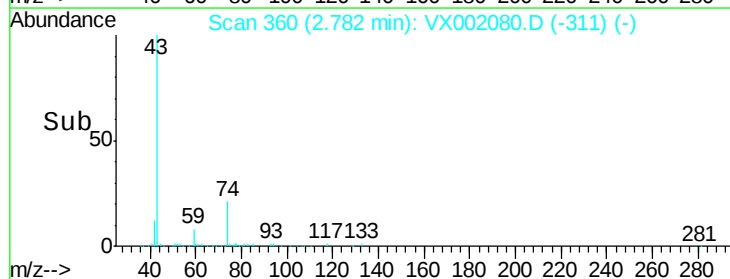
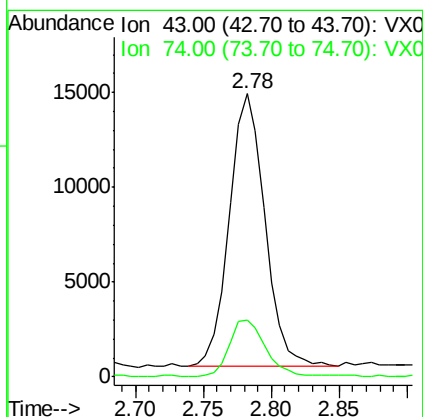
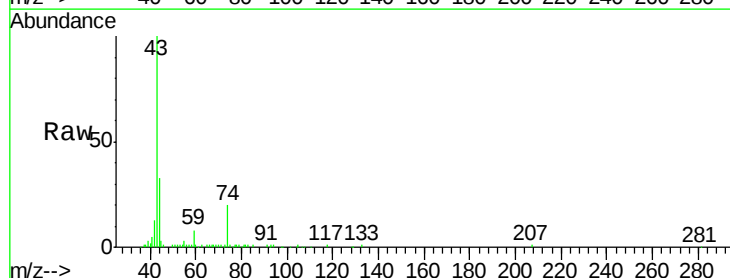
Acq: 27 May 2018 20:24

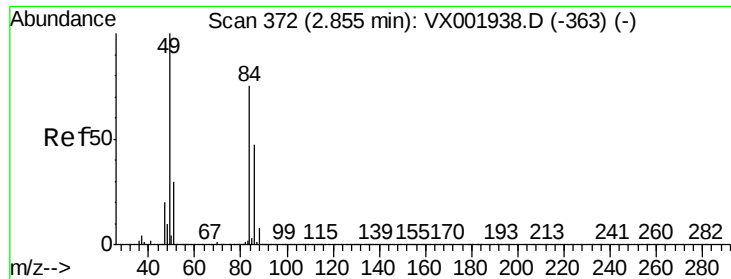
Tgt Ion: 43 Resp: 26220

Ion Ratio Lower Upper

43 100

74 21.5 16.8 25.2

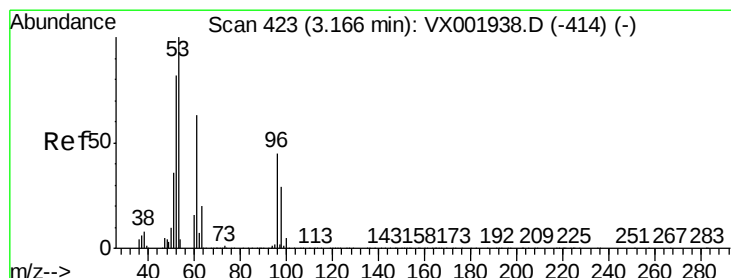
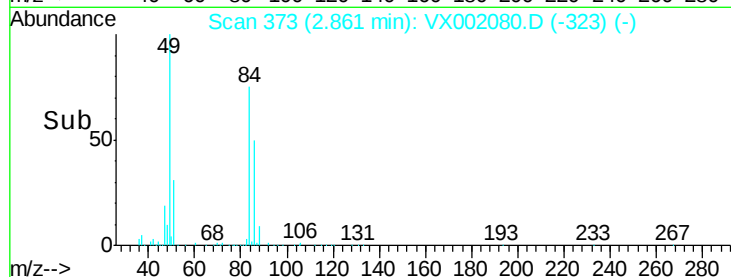
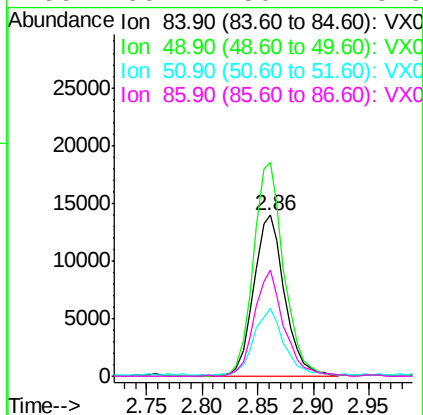
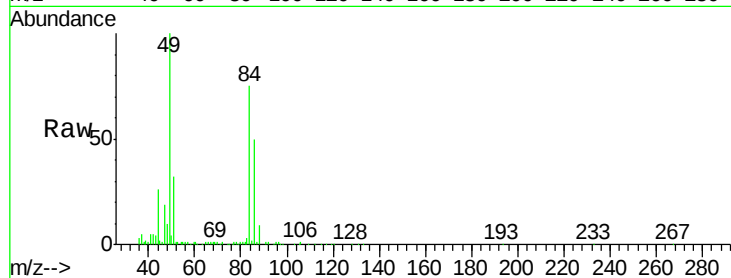




#20
Methvlene Chloride
Concen: 5.93 ua/l
RT: 2.86 min Scan# 373
Delta R.T. 0.01 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

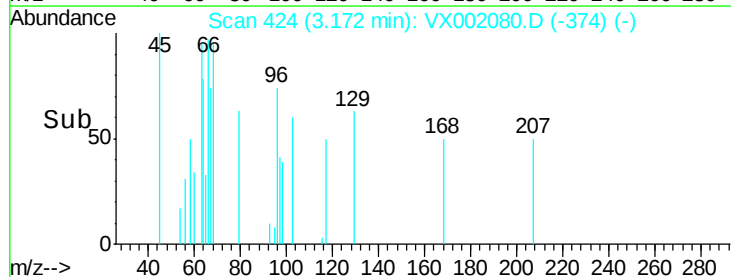
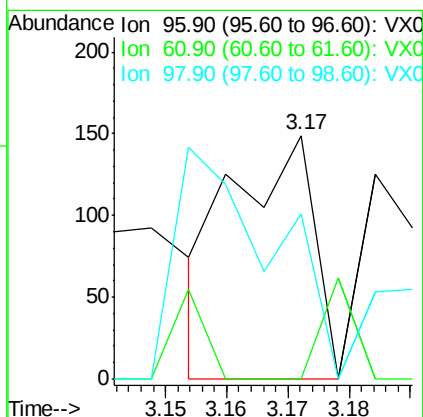
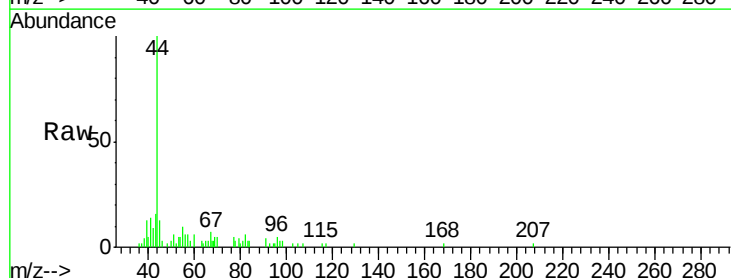
Instrument :
MSVOA_X
ClientSampleId :

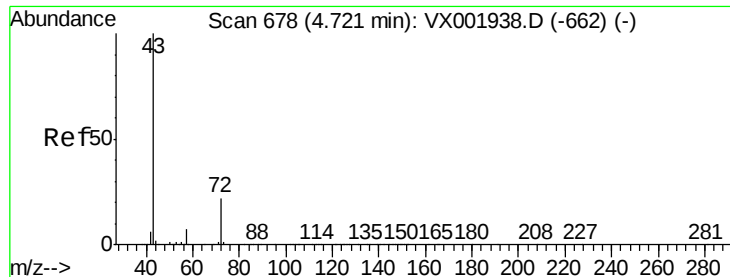
Tot Ion:	84	Resp:	26979
Ion	Ratio	Lower	Upper
84	100		
49	132.9	107.2	160.8
51	41.7	32.4	48.6
86	66.4	50.4	75.6



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 424
Delta R.T. 0.01 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

Tgt Ion:	96	Resp:	139
Ion	Ratio	Lower	Upper
96	100		
61	0.0	113.3	169.9#
98	67.8	51.7	77.5





#25

2-Butanone

Concen: 1.23 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.01 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Instrument :

MSVOA_X

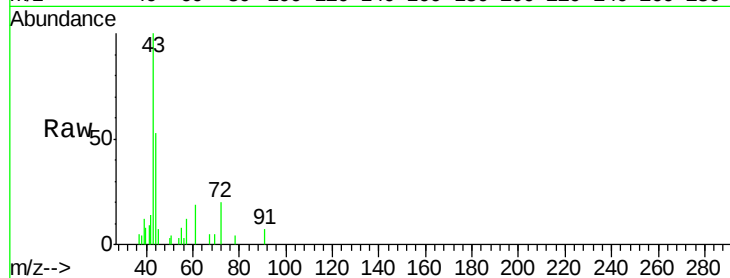
ClientSampled :

Tot Ion: 43 Resp: 4738

Ion Ratio Lower Upper

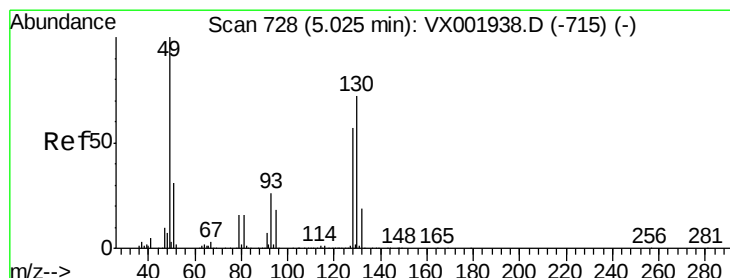
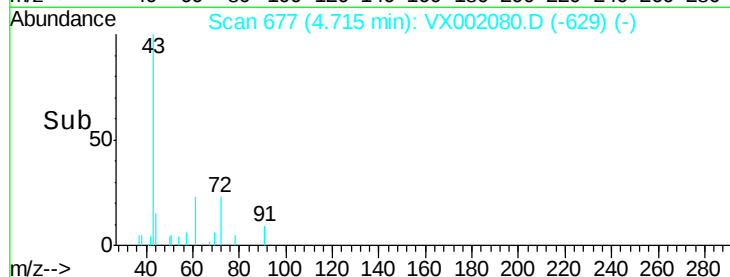
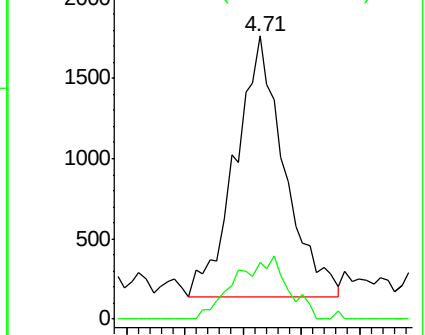
43 100

72 21.6 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

Delta R.T. 0.01 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

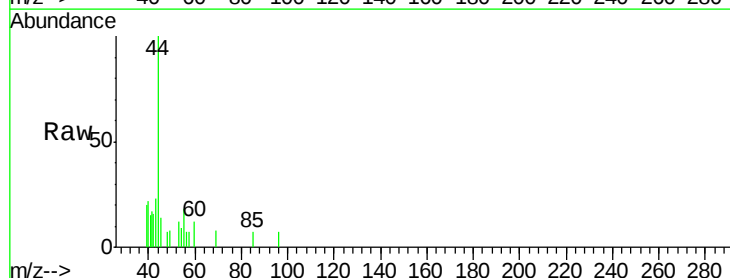
Tgt Ion: 49 Resp: 46

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

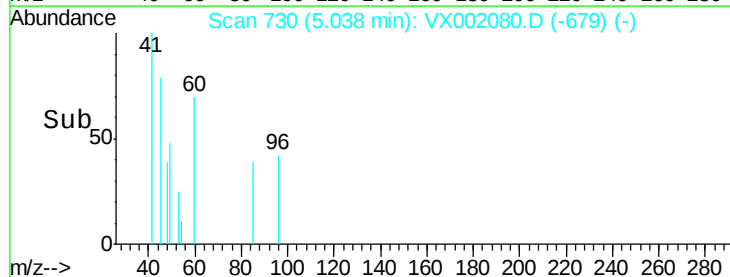
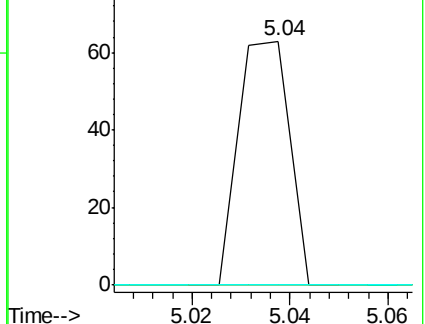
130 0.0 59.4 89.2#

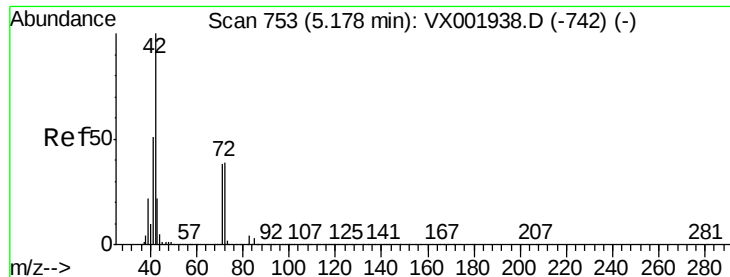


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.41 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX002080.D

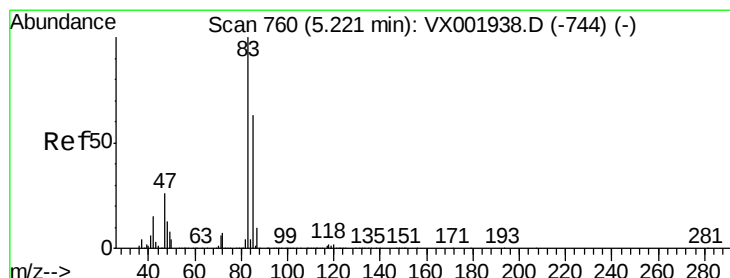
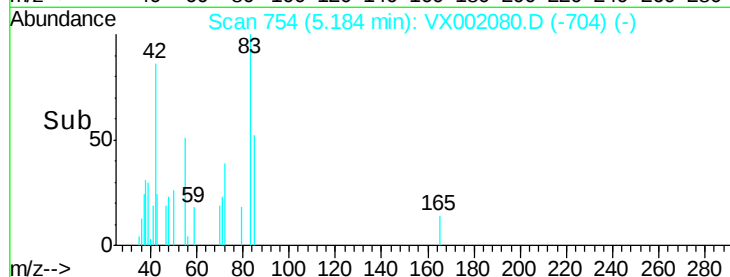
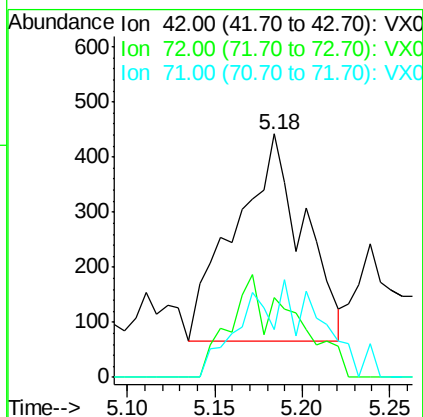
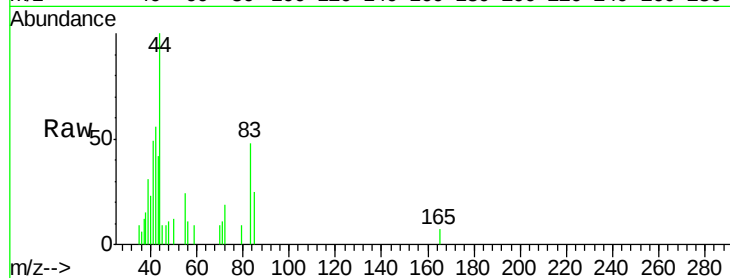
Acq: 27 May 2018 20:24

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:	42	Resp:	1020
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.4	47.0#
71	4.1	29.5	44.3#



#30

Chloroform

Concen: 0.45 ug/l

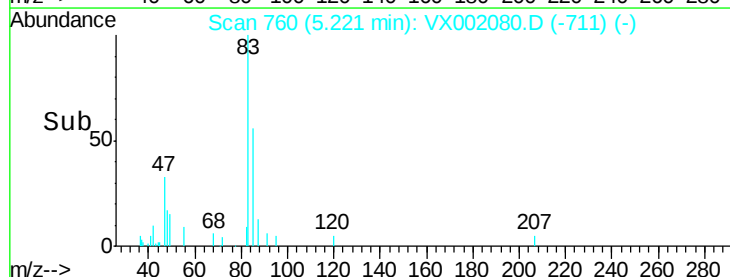
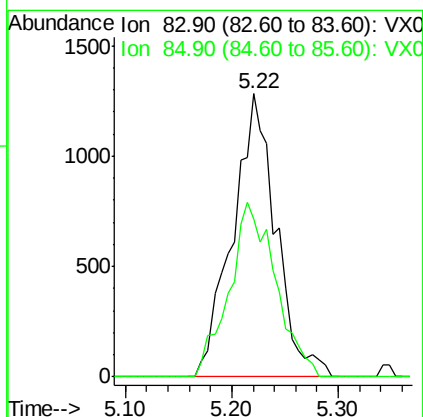
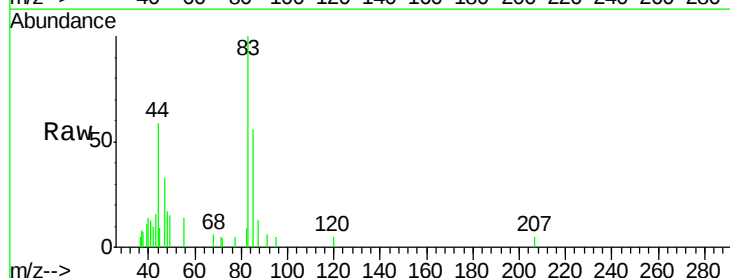
RT: 5.22 min Scan# 760

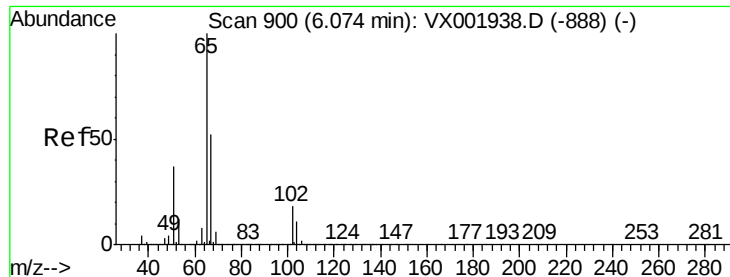
Delta R.T. -0.00 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Tgt Ion:	83	Resp:	3653
Ion	Ratio	Lower	Upper
83	100		
85	55.6	50.9	76.3





#33

1,2-Dichloroethane-d4

Concen: 36.34 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

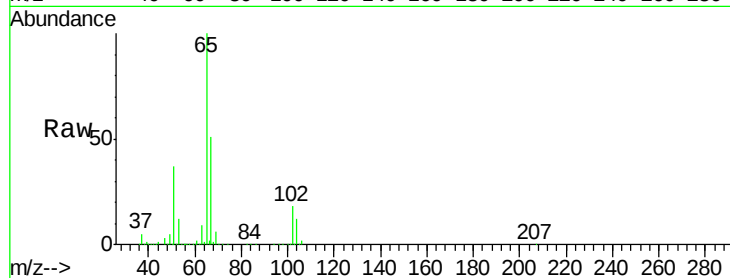
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 65 Resp: 198211

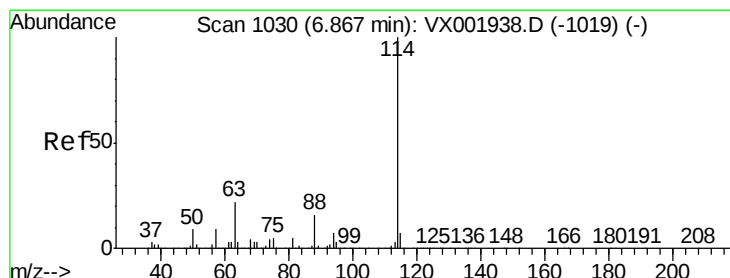
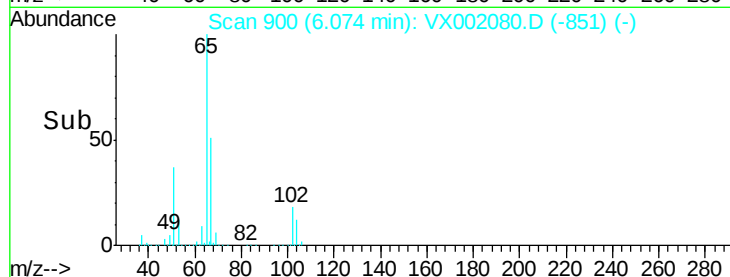
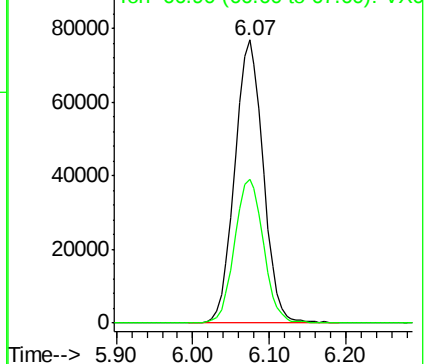
Ion Ratio Lower Upper

65 100

67 51.9 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

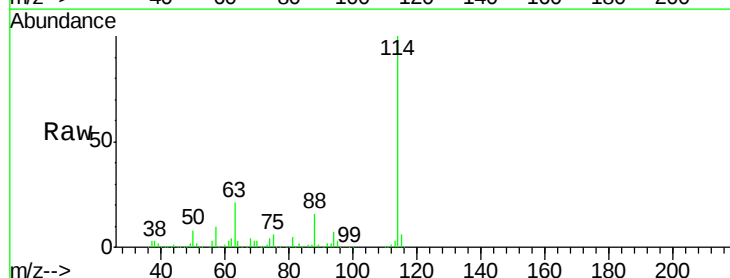
Tgt Ion: 114 Resp: 428445

Ion Ratio Lower Upper

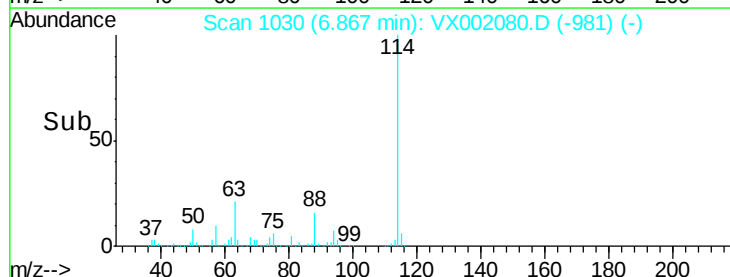
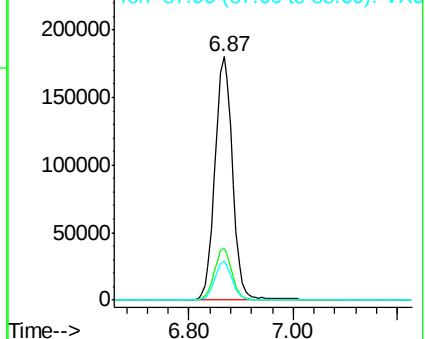
114 100

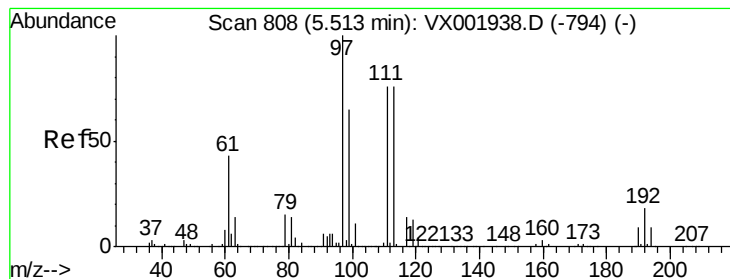
63 21.2 0.0 43.2

88 15.8 0.0 31.6



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: 35.82 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Instrument :
MSVOA_X
ClientSampleId :

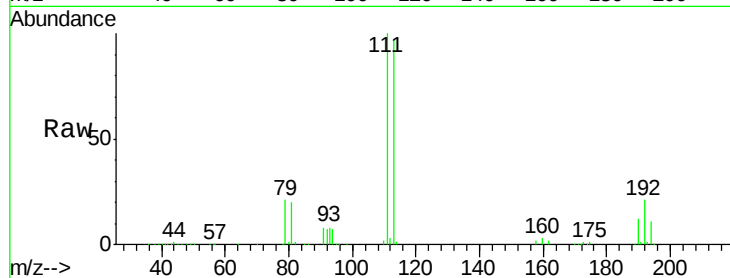
Tot Ion:113 Resp: 153455

Ion Ratio Lower Upper

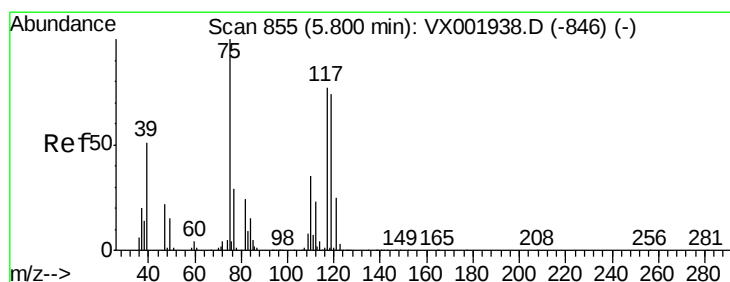
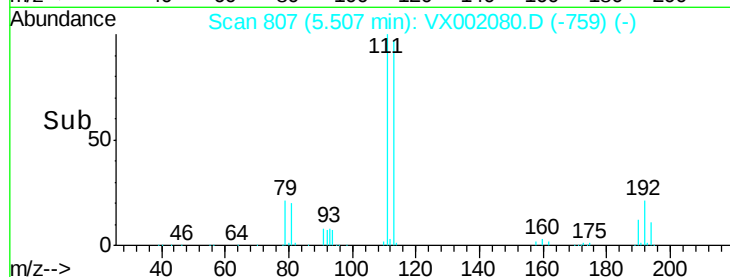
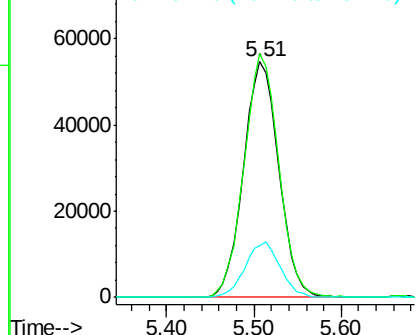
113 100

111 101.8 82.0 123.0

192 23.3 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: 3.53 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

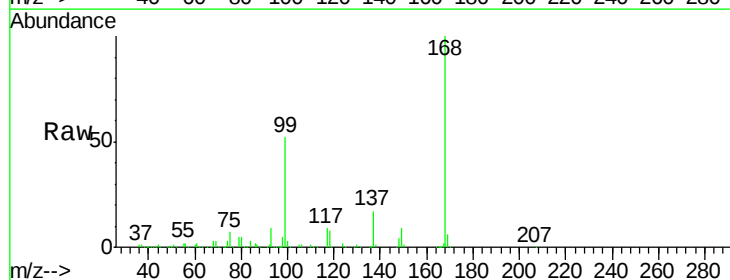
Tgt Ion: 75 Resp: 21064

Ion Ratio Lower Upper

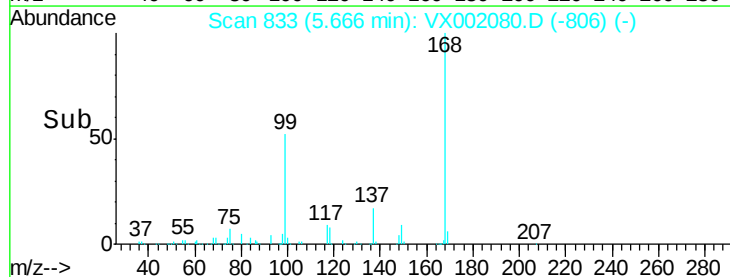
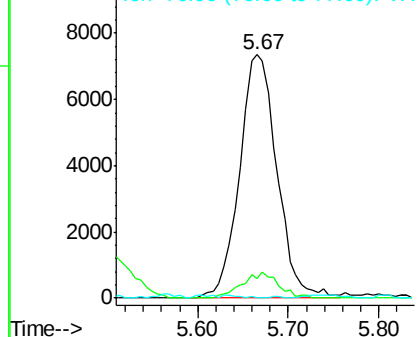
75 100

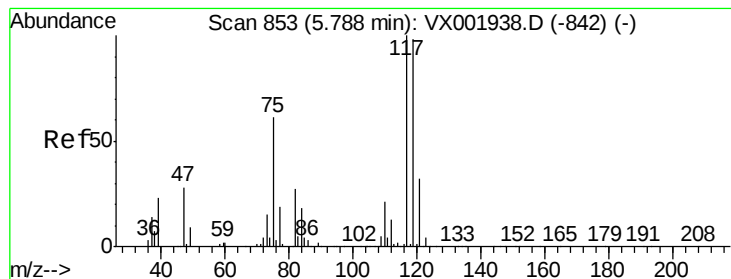
110 10.2 17.4 52.2#

77 0.0 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: 4.09 ua/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Instrument :

MSVOA_X

ClientSampleId :

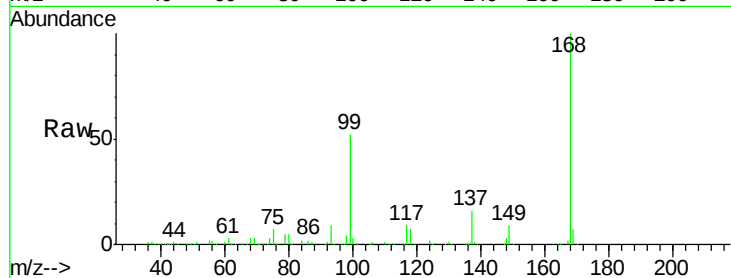
Tot Ion:117 Resp: 28390

Ion Ratio Lower Upper

117 100

119 4.1 78.5 117.7#

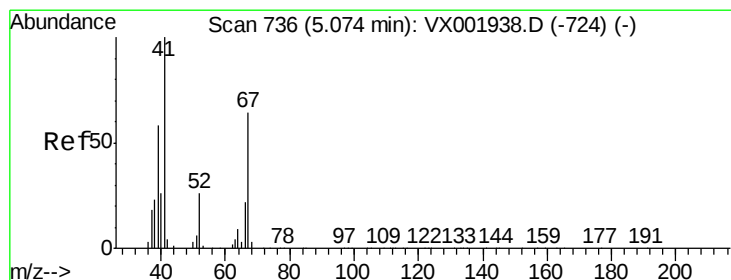
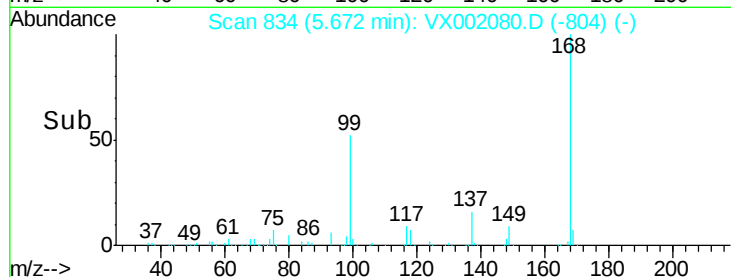
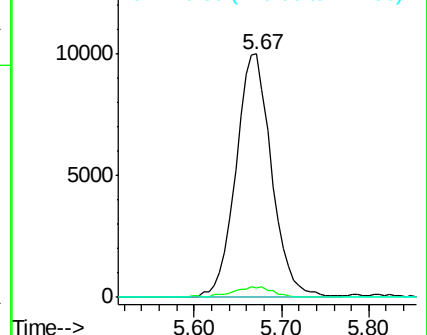
121 0.0 25.5 38.3#



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: 5.08 min Scan# 737

Delta R.T. 0.01 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Tgt Ion: 41 Resp: 34

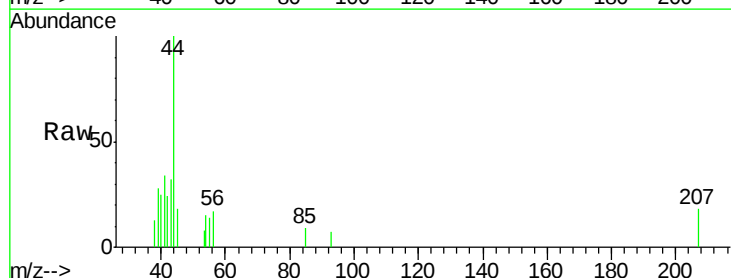
Ion Ratio Lower Upper

41 100

39 123.5 46.0 69.0#

67 0.0 50.6 75.8#

52 0.0 21.9 32.9#

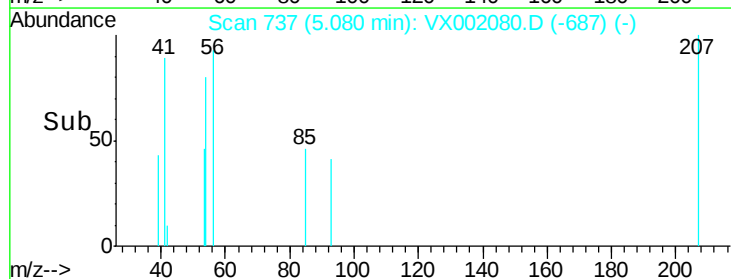
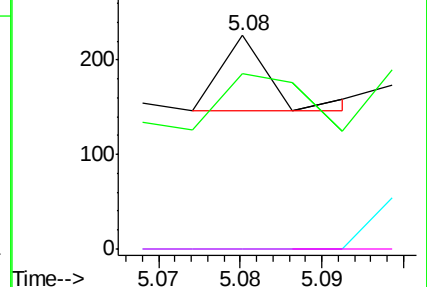


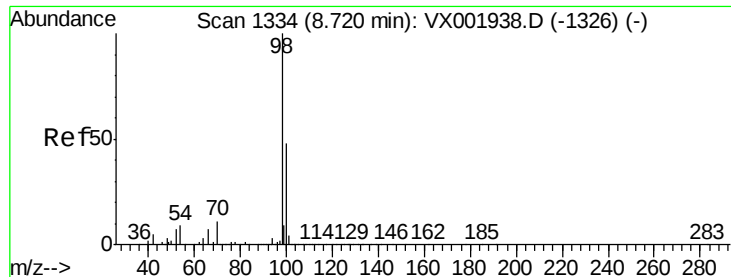
Abundance Ion 41.00 (40.70 to 41.70): VX0

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

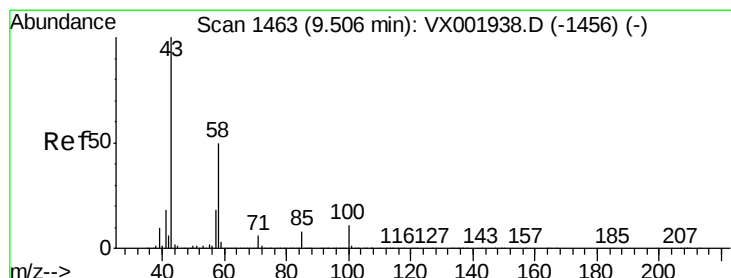
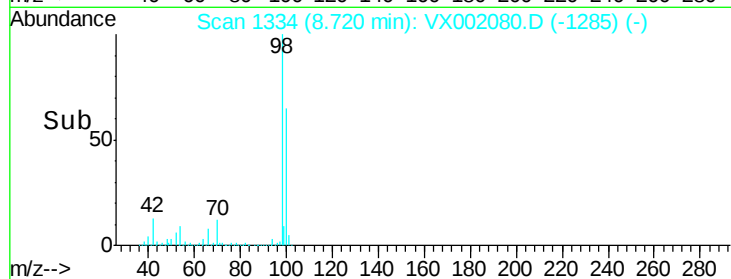
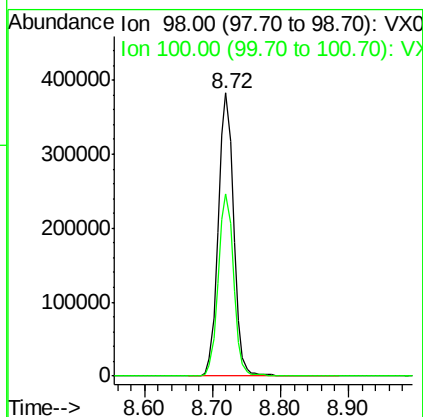
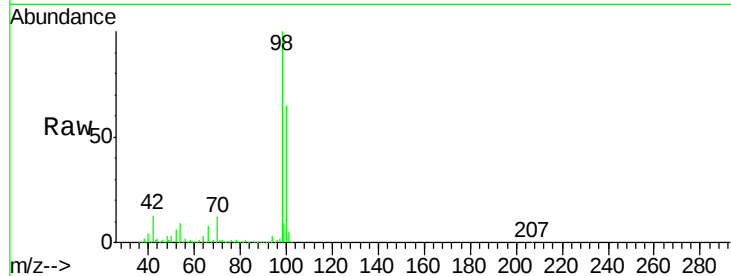




#50
Toluene-d8
Concen: 38.75 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

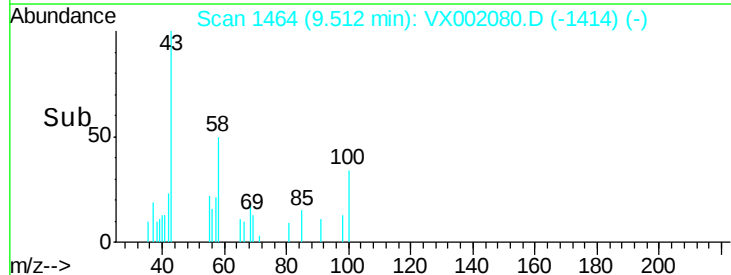
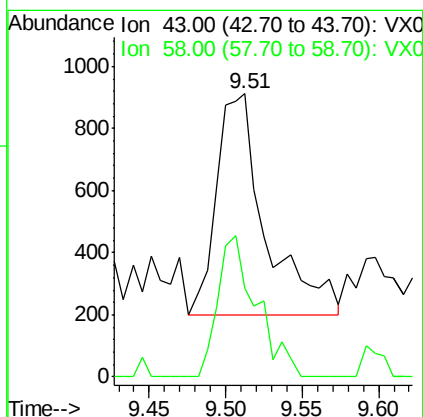
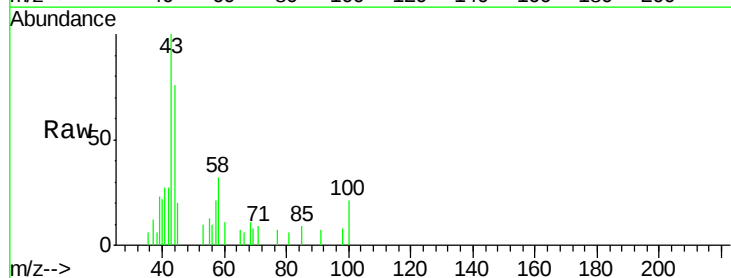
Instrument :
MSVOA_X
ClientSampleId :

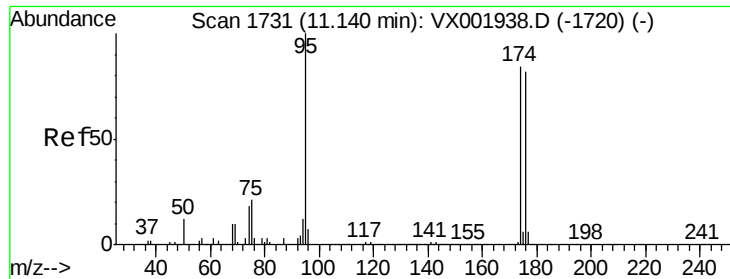
Tot Ion: 98 Resp: 601131
Ion Ratio Lower Upper
98 100
100 64.4 51.5 77.3



#59
2-Hexanone
Concen: 0.27 ug/l
RT: 9.51 min Scan# 1464
Delta R.T. 0.01 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

Tgt Ion: 43 Resp: 1595
Ion Ratio Lower Upper
43 100
58 50.0 24.9 74.6

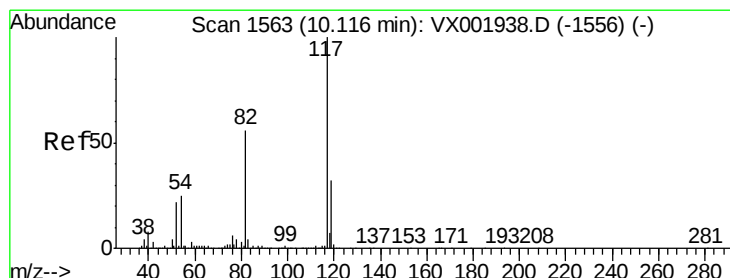
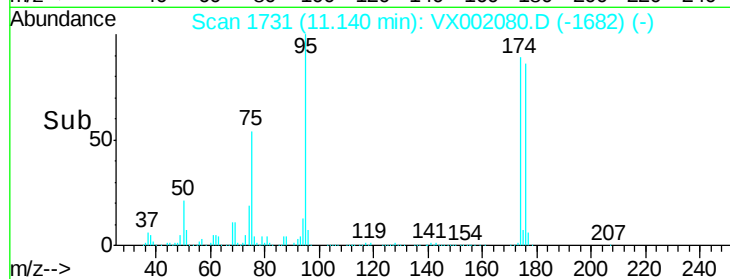
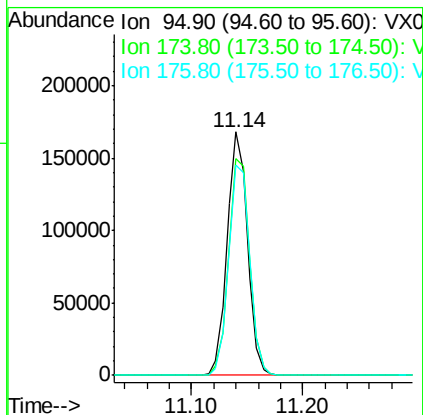
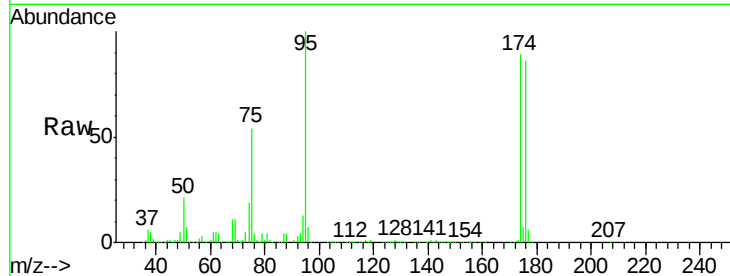




#62
4-Bromofluorobenzene
Concen: 34.93 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

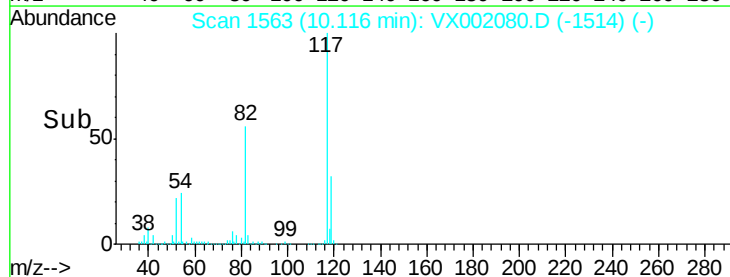
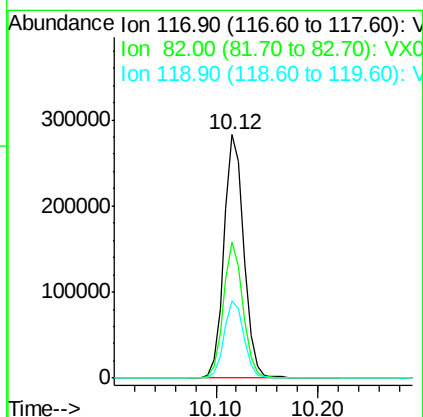
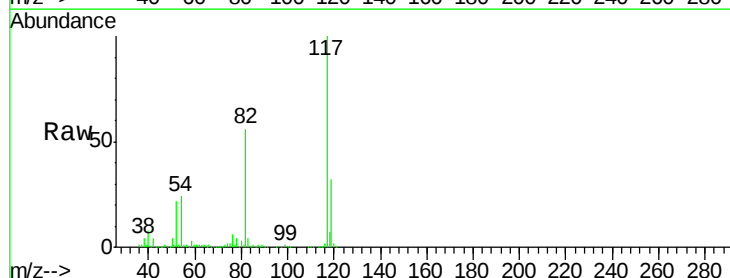
Instrument :
MSVOA_X
ClientSampleId :

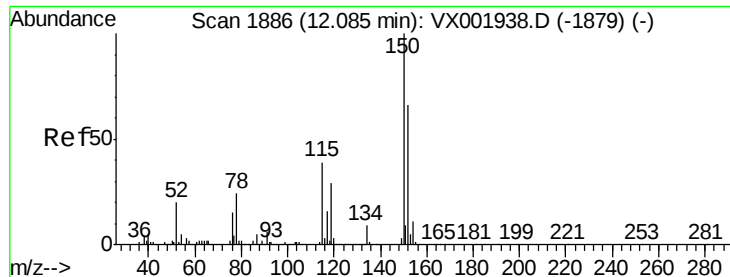
Tot Ion: 95 Resp: 212016
Ion Ratio Lower Upper
95 100
174 92.2 0.0 178.8
176 90.3 0.0 175.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

Tgt Ion: 117 Resp: 382885
Ion Ratio Lower Upper
117 100
82 56.0 44.8 67.2
119 31.7 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Instrument :

MSVOA_X

ClientSampleId :

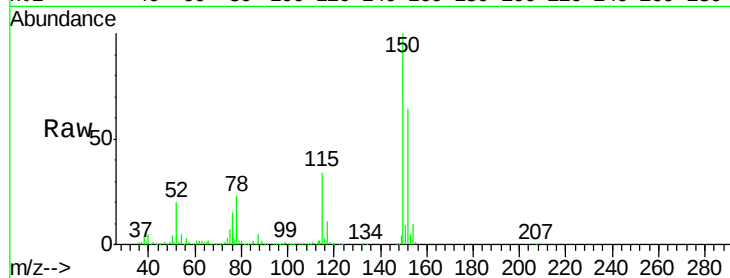
Tot Ion:152 Resp: 207739

Ion Ratio Lower Upper

152 100

115 55.5 42.3 126.8

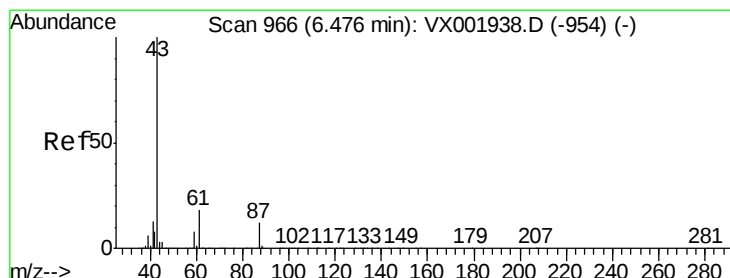
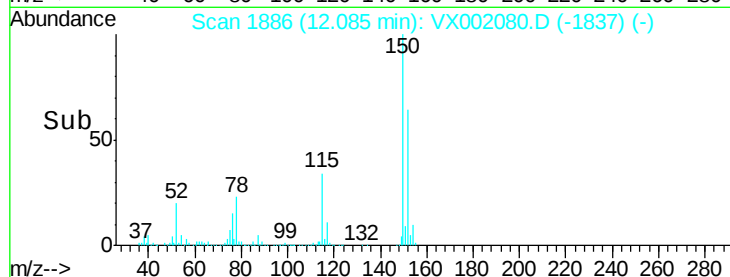
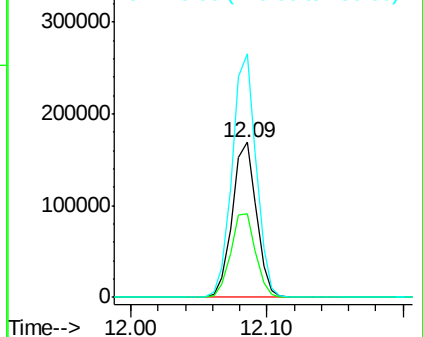
150 156.9 0.0 351.0



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-amil acetate

Concen: Below Cal

RT: 6.48 min Scan# 966

Delta R.T. 0.00 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Tgt Ion: 43 Resp: 135

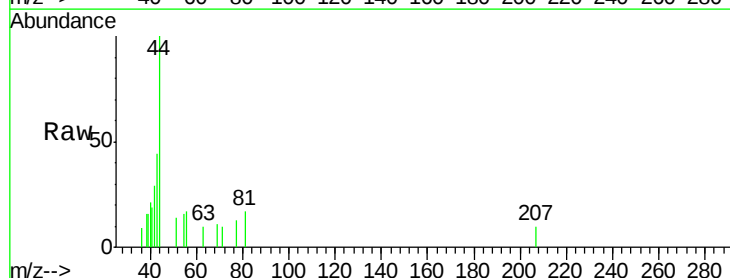
Ion Ratio Lower Upper

43 100

70 0.0 0.1 0.1#

55 0.0 0.1 0.1#

61 0.0 14.5 21.7#

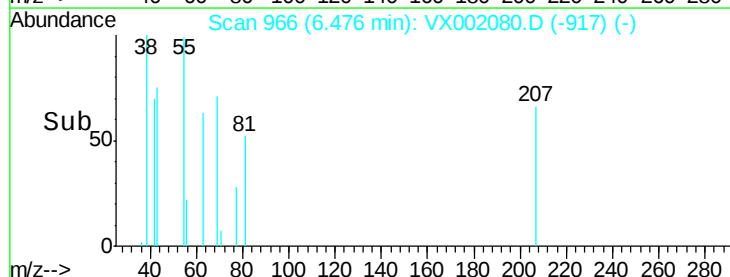
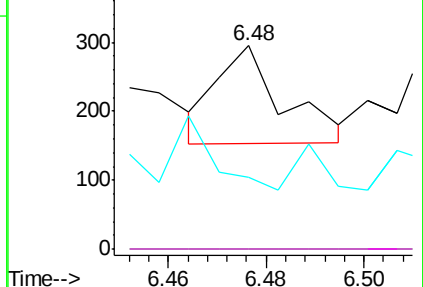


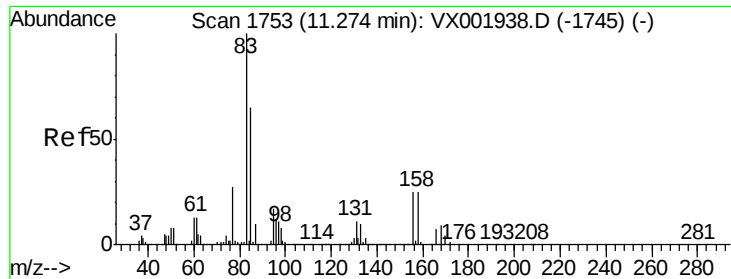
Abundance Ion 43.00 (42.70 to 43.70): VX0

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: 11.27 min Scan# 1752

Delta R.T. -0.01 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Instrument :

MSVOA_X

ClientSampled :

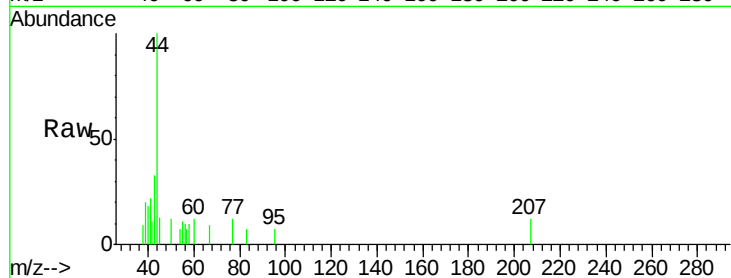
Tot Ion: 83 Resp: 21

Ion Ratio Lower Upper

83 100

131 0.0 5.7 17.0#

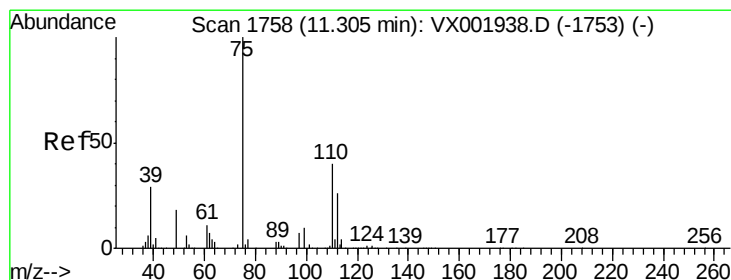
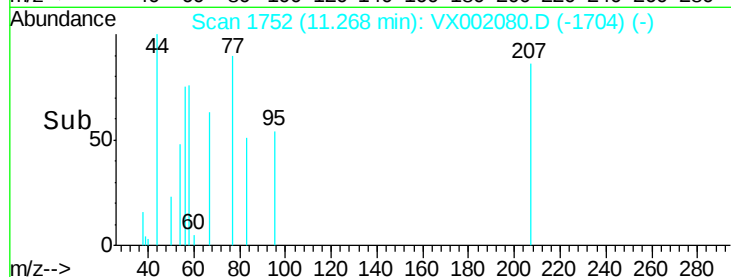
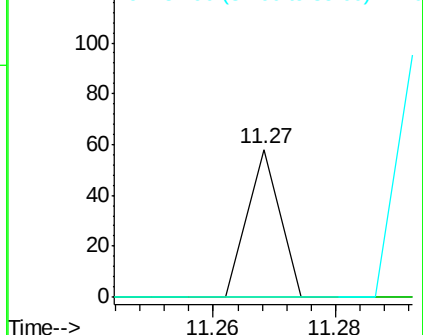
85 0.0 32.6 97.7#



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: 22.50 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002080.D

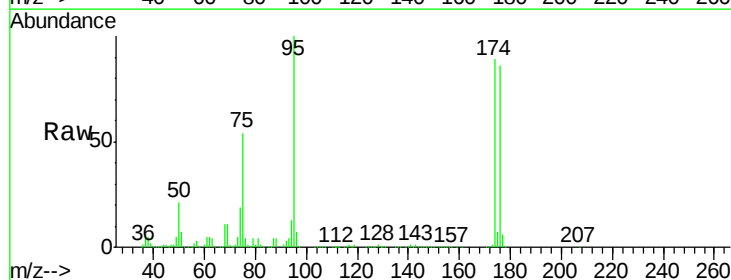
Acq: 27 May 2018 20:24

Tgt Ion: 75 Resp: 112269

Ion Ratio Lower Upper

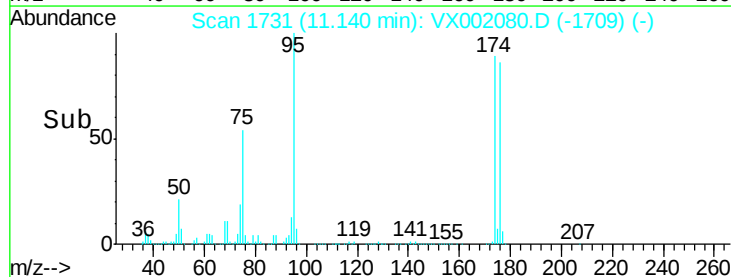
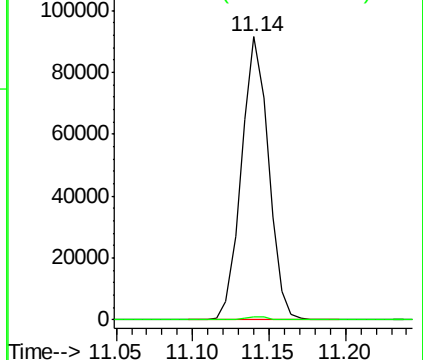
75 100

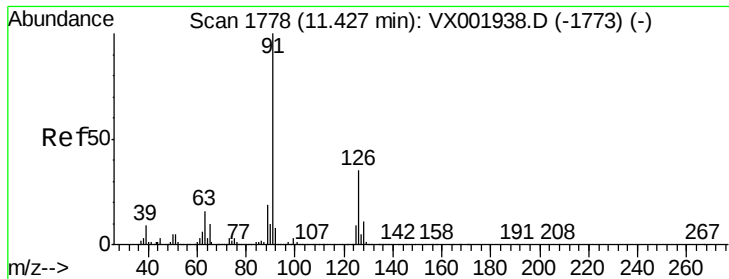
77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

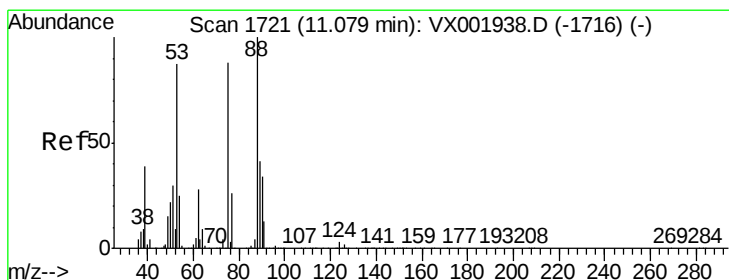
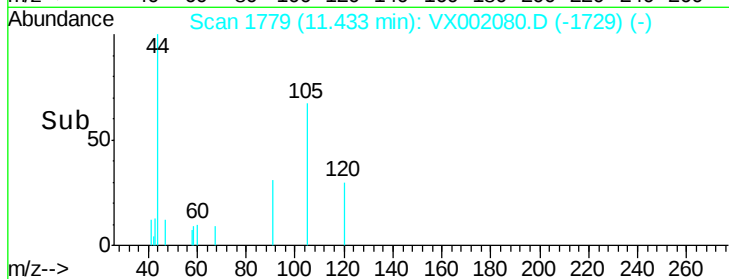
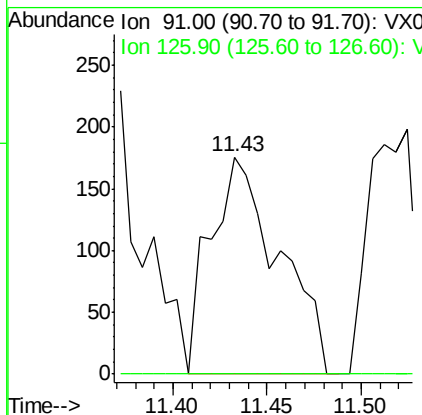
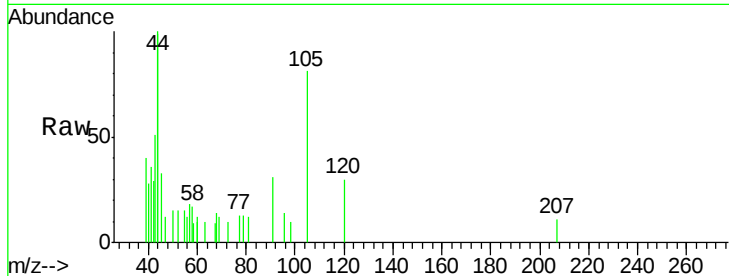




#79
2-Chlorotoluene
Concen: Below Cal
RT: 11.43 min Scan# 1779
Delta R.T. 0.01 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

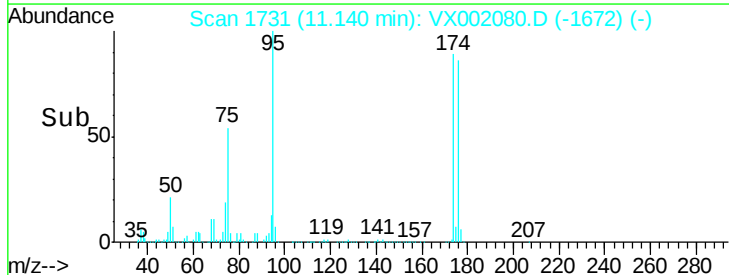
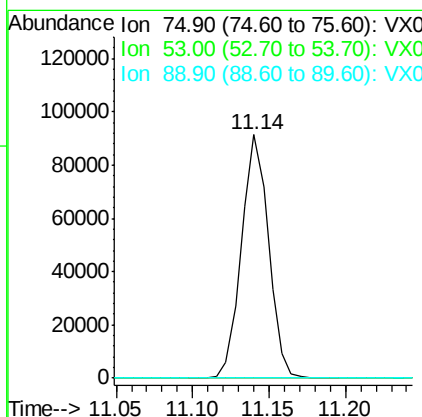
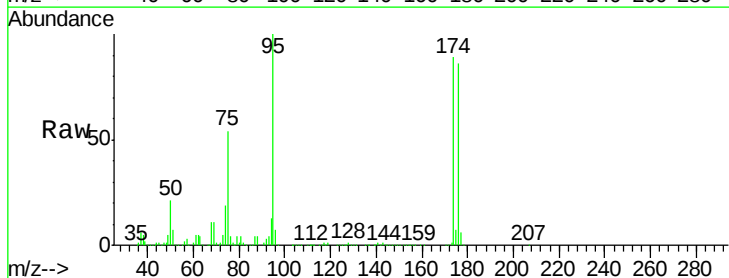
Instrument :
MSVOA_X
ClientSampleId :

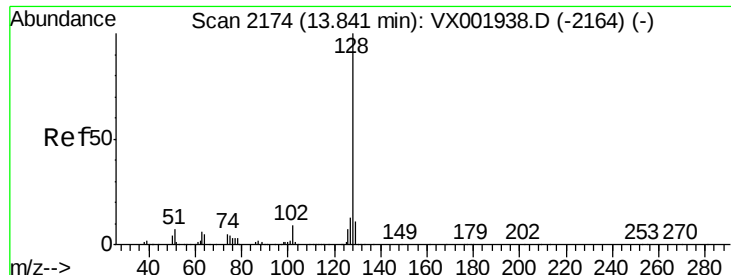
Tot Ion: 91 Resp: 444
Ion Ratio Lower Upper
91 100
126 0.0 17.4 52.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 54.08 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002080.D
Acq: 27 May 2018 20:24

Tgt Ion: 75 Resp: 112269
Ion Ratio Lower Upper
75 100
53 0.1 78.0 117.0#
89 0.0 39.4 59.2#





#95

Naphthalene

Concen: 5.62 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX002080.D

Acq: 27 May 2018 20:24

Instrument :

MSVOA_X

ClientSampleId :

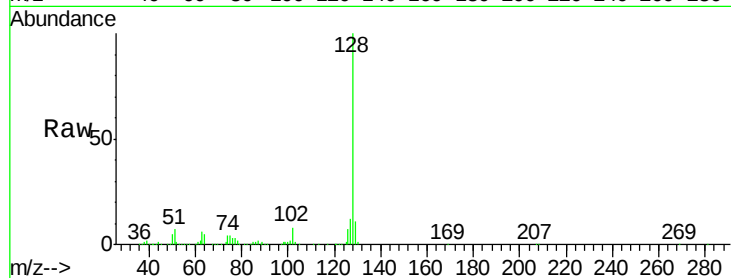
Tot Ion:128 Resp: 105440

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

129 11.0 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

