

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX052218\
 Data File : VX001909.D
 Acq On : 22 May 2018 22:18
 Operator : JC/MD
 Sample : PB109525ZHE#16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 23 01:24:24 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X051518W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 15 01:36:22 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	236012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	320630	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	262749	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	128515	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	154639	48.88	ug/l	0.00
Spiked Amount			Recovery	=	97.76%	
35) Dibromofluoromethane	5.51	113	127404	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
50) Toluene-d8	8.72	98	451932	46.64	ug/l	0.00
Spiked Amount			Recovery	=	93.28%	
62) 4-Bromofluorobenzene	11.14	95	126747	36.33	ug/l	0.00
Spiked Amount			Recovery	=	72.66%	

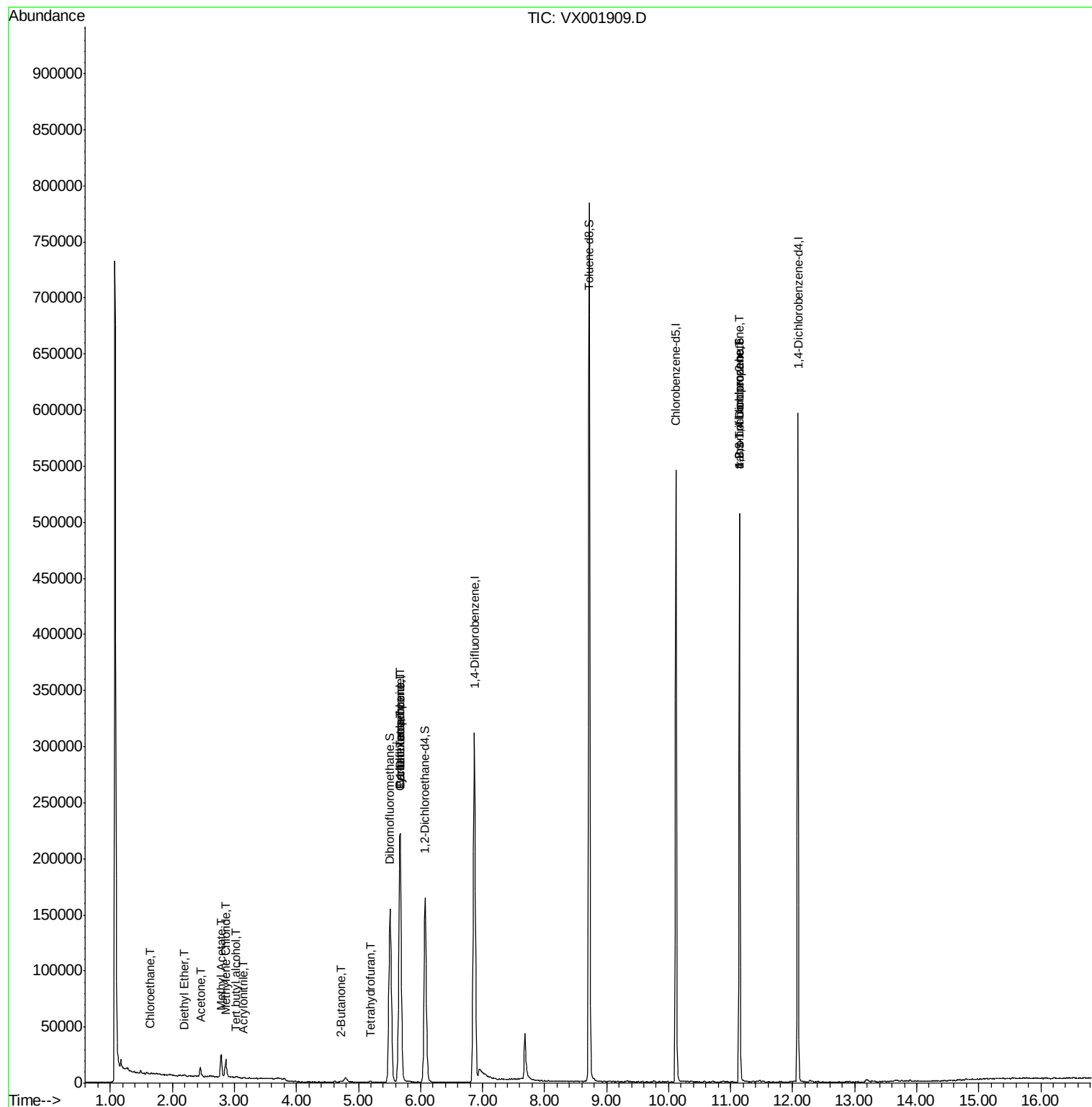
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	48	Below Cal	#	1
6) Chloroethane	1.64	64	361	0.21	ug/l #	43
8) Diethyl Ether	2.18	74	427	0.26	ug/l	87
11) Tert butyl alcohol	3.03	59	1161	2.07	ug/l #	76
15) Acrylonitrile	3.15	53	289	0.20	ug/l #	79
16) Acetone	2.45	43	9064	7.29	ug/l	100
18) Methyl Acetate	2.78	43	24884	6.85	ug/l	100
20) Methylene Chloride	2.86	84	6832	2.57	ug/l	93
25) 2-Butanone	4.72	43	2492	1.31	ug/l	92
29) Tetrahydrofuran	5.18	42	1078	0.87	ug/l #	56
31) Cyclohexane	5.66	56	4023	1.01	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14487	3.92	ug/l #	51
38) Carbon Tetrachloride	5.67	117	20299	5.25	ug/l #	17
76) 1,2,3-Trichloropropane	11.14	75	60348	24.69	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.14	75	60348	72.03	ug/l #	10

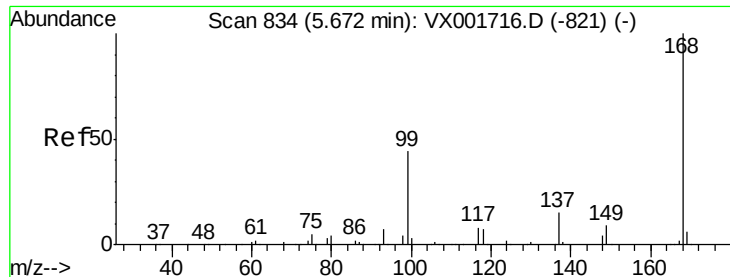
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX001909.D

Acq: 22 May 2018 22:18

Instrument :

MSVOA_X

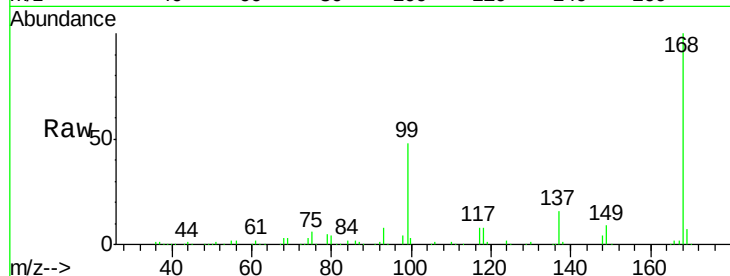
ClientSampled :

Tot Ion:168 Resp: 236012

Ion Ratio Lower Upper

168 100

99 47.6 35.0 52.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

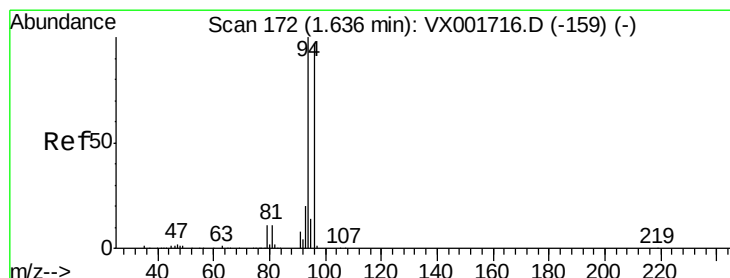
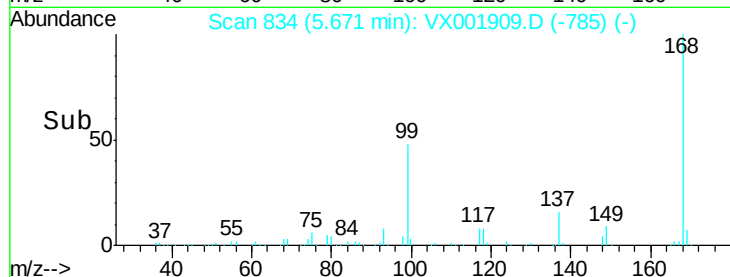
40000

20000

0

Time-->

5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.01 min

Lab File: VX001909.D

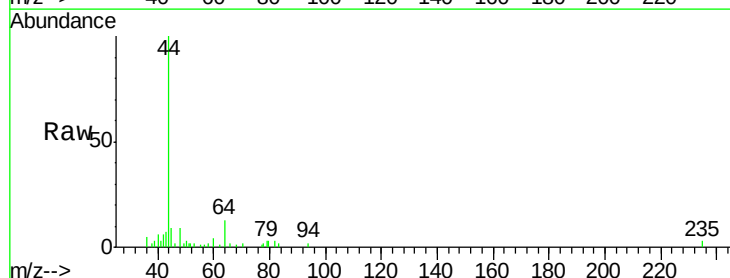
Acq: 22 May 2018 22:18

Tgt Ion: 94 Resp: 48

Ion Ratio Lower Upper

94 100

96 0.0 77.4 116.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

80

60

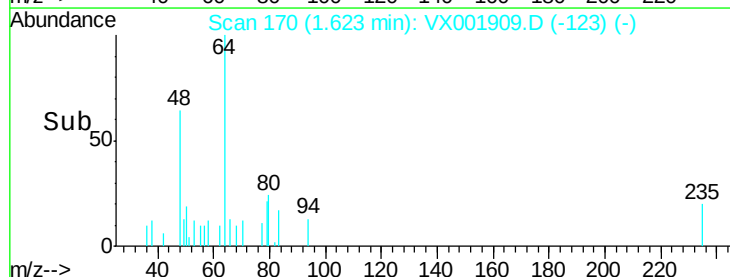
40

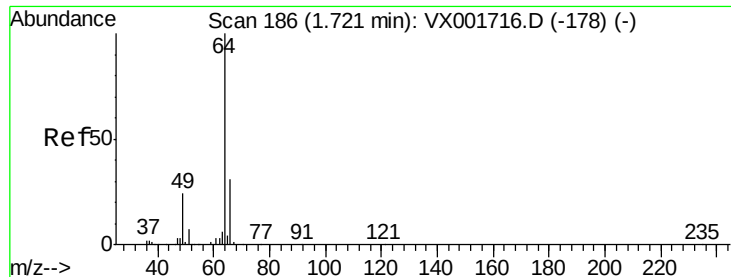
20

0

Time-->

1.61 1.62 1.63





#6

Chloroethane

Concen: 0.21 ug/l

RT: 1.64 min Scan# 173

Delta R.T. -0.08 min

Lab File: VX001909.D

Acq: 22 May 2018 22:18

Instrument :

MSVOA_X

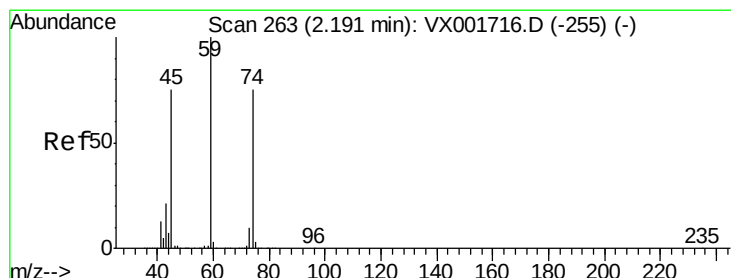
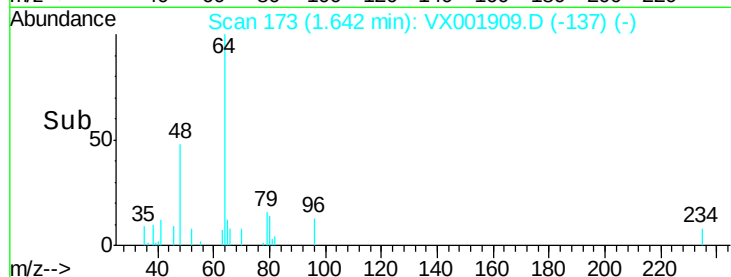
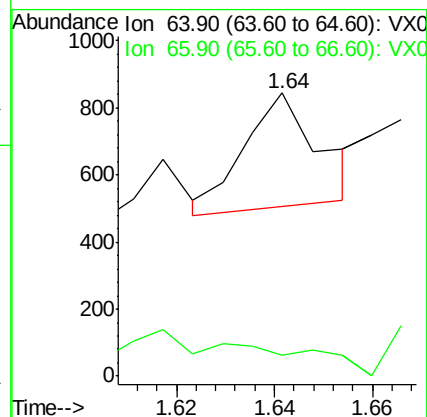
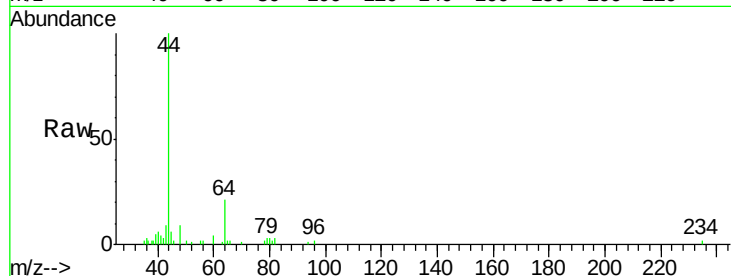
ClientSampled :

Tot Ion: 64 Resp: 361

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#



#8

Diethyl Ether

Concen: 0.26 ug/l

RT: 2.18 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX001909.D

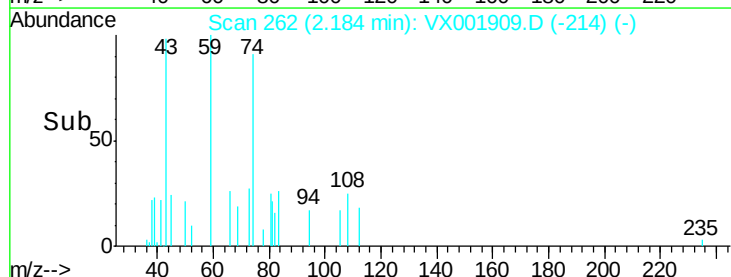
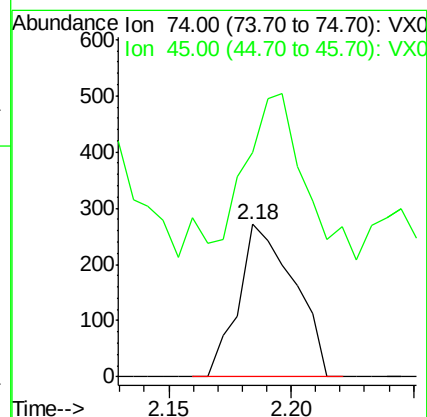
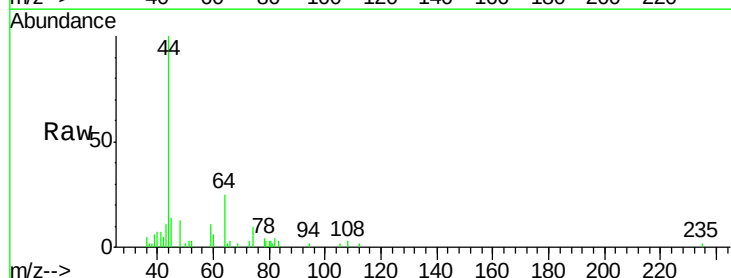
Acq: 22 May 2018 22:18

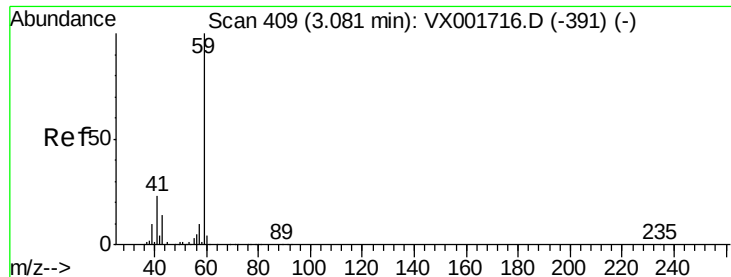
Tgt Ion: 74 Resp: 427

Ion Ratio Lower Upper

74 100

45 112.6 50.0 149.8

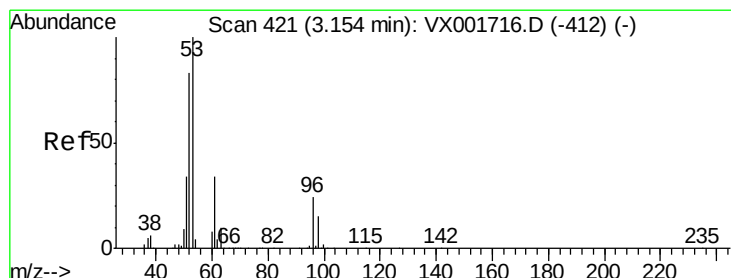
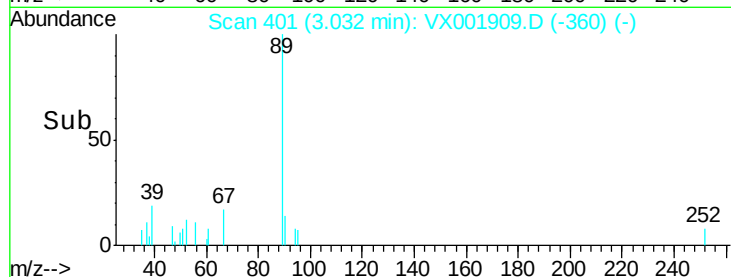
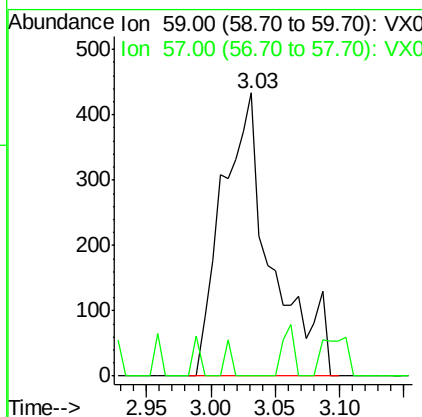
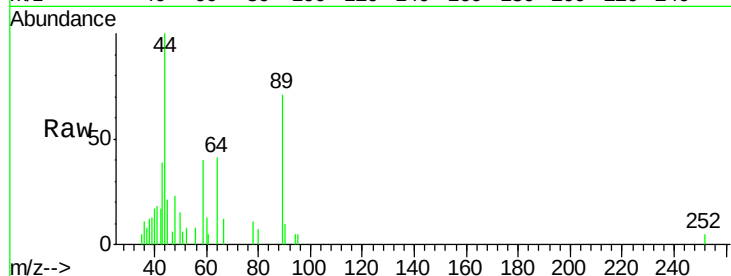




#11
Tert butyl alcohol
Concen: 2.07 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX001909.D
Acq: 22 May 2018 22:18

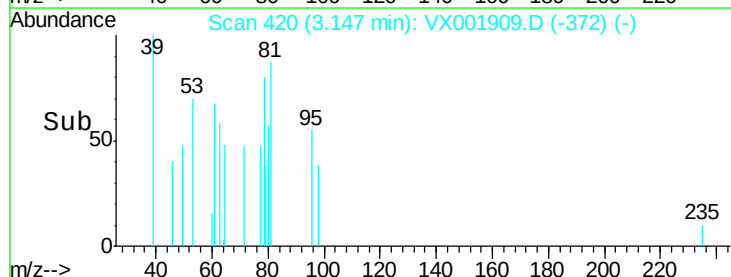
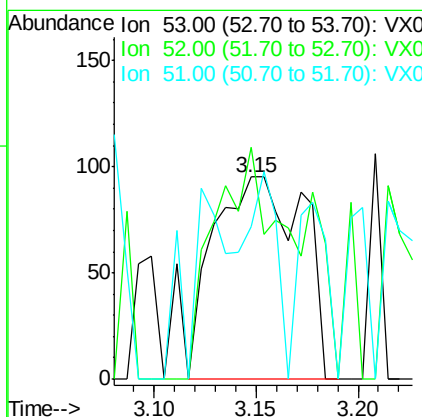
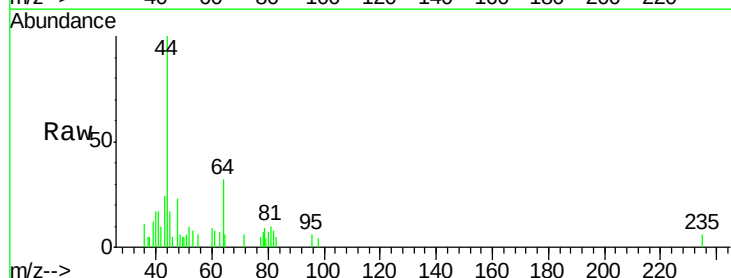
Instrument :
MSVOA_X
ClientSampled :

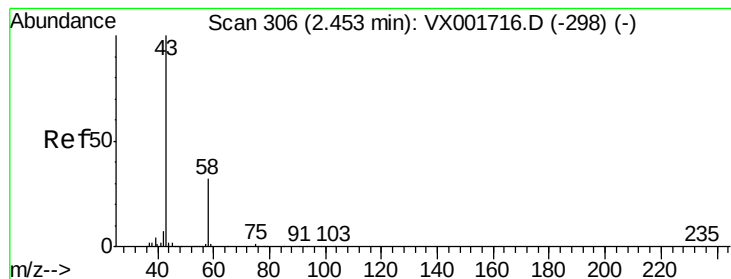
Tot Ion: 59 Resp: 1161
Ion Ratio Lower Upper
59 100
57 1.7 8.5 12.7#



#15
Acrylonitrile
Concen: 0.20 ug/l
RT: 3.15 min Scan# 420
Delta R.T. -0.01 min
Lab File: VX001909.D
Acq: 22 May 2018 22:18

Tgt Ion: 53 Resp: 289
Ion Ratio Lower Upper
53 100
52 106.2 65.6 98.4#
51 31.1 28.1 42.1





#16

Acetone

Concen: 7.29 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX001909.D

Acq: 22 May 2018 22:18

Instrument :

MSVOA_X

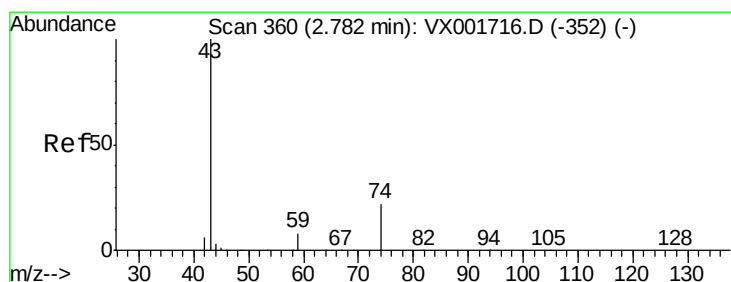
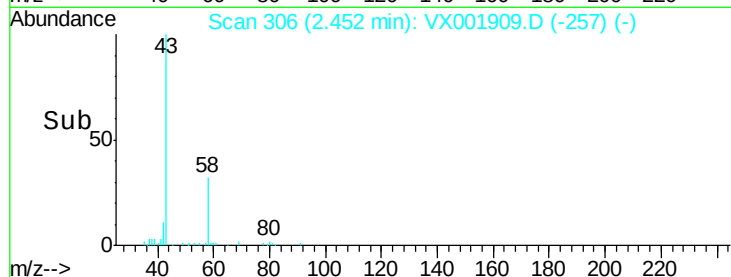
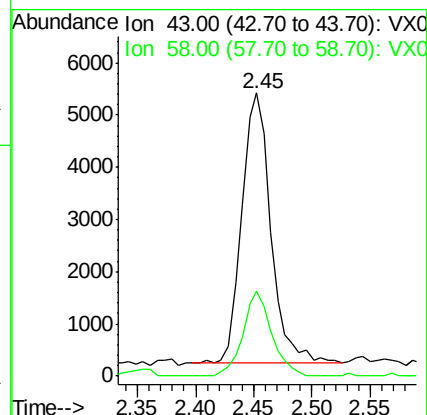
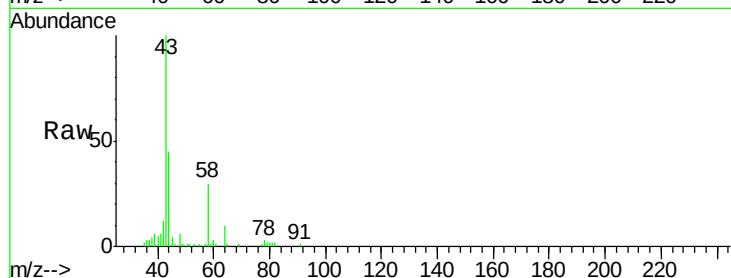
ClientSampleId :

Tot Ion: 43 Resp: 9064

Ion Ratio Lower Upper

43 100

58 31.6 25.3 37.9



#18

Methyl Acetate

Concen: 6.85 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX001909.D

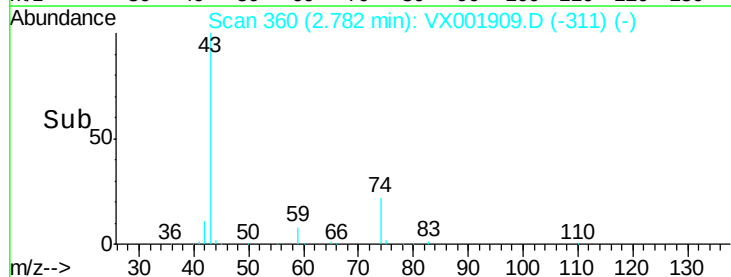
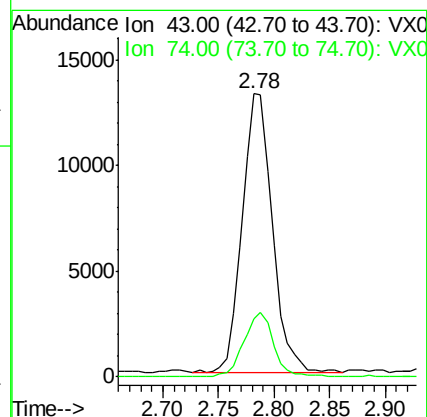
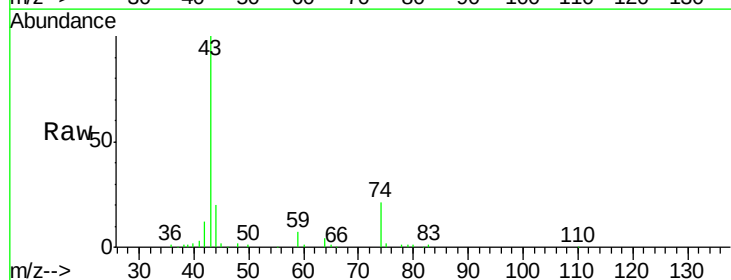
Acq: 22 May 2018 22:18

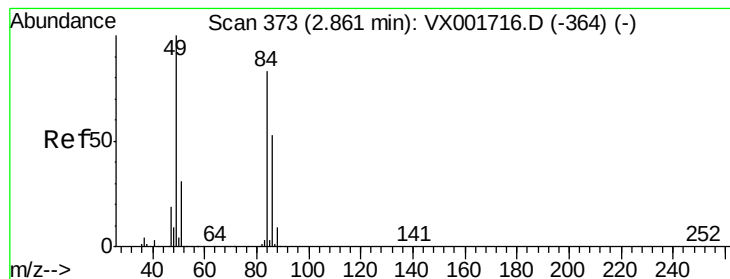
Tgt Ion: 43 Resp: 24884

Ion Ratio Lower Upper

43 100

74 22.7 18.2 27.2





#20

Methylene Chloride

Concen: 2.57 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.00 min

Lab File: VX001909.D

Acq: 22 May 2018 22:18

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 84 Resp: 6832

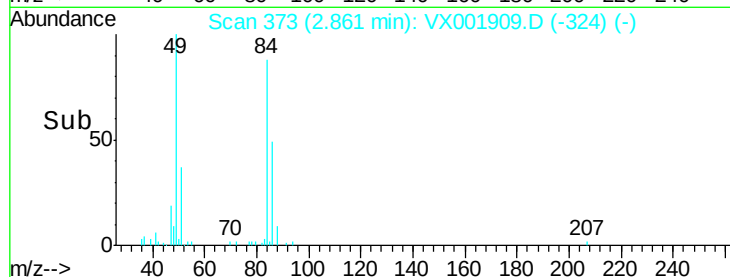
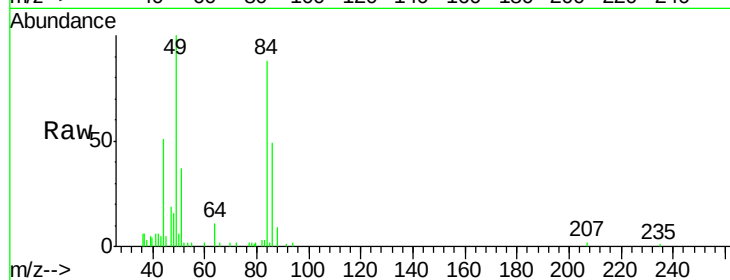
Ion Ratio Lower Upper

84 100

49 114.3 96.3 144.5

51 42.3 29.8 44.6

86 56.4 51.0 76.6

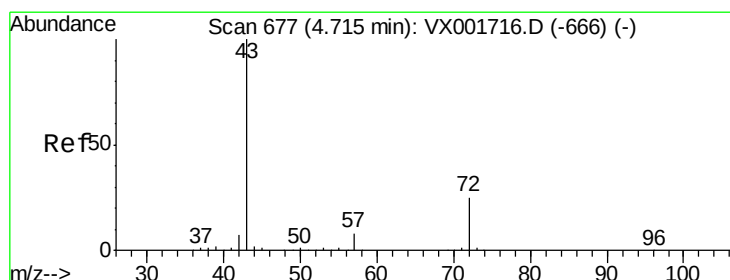
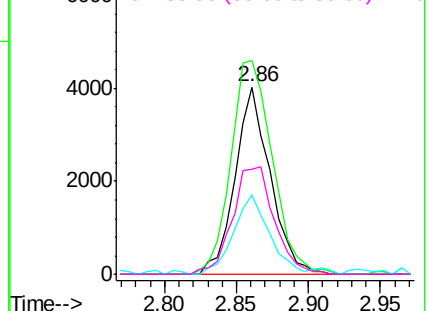


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 1.31 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX001909.D

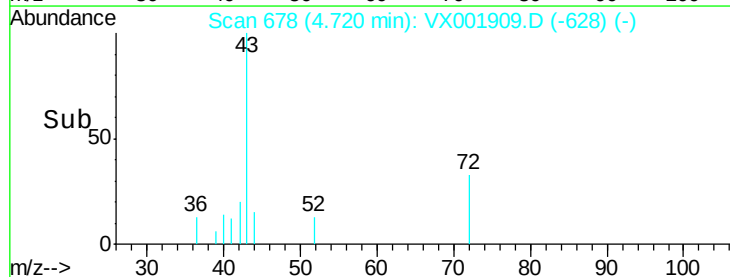
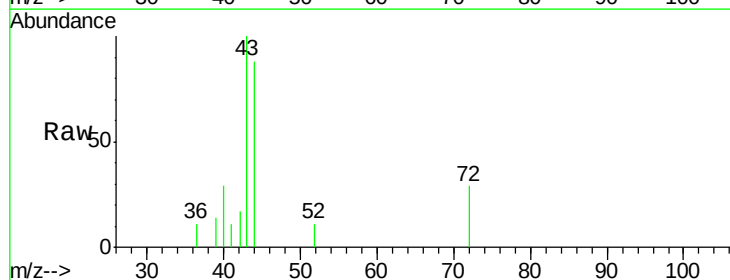
Acq: 22 May 2018 22:18

Tgt Ion: 43 Resp: 2492

Ion Ratio Lower Upper

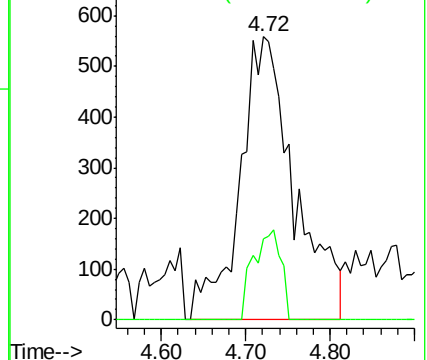
43 100

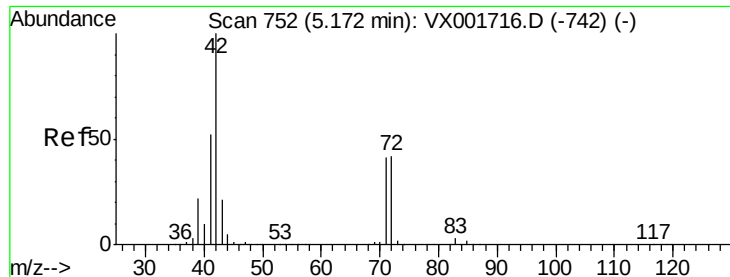
72 28.7 19.8 29.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0





#29

Tetrahydrofuran

Concen: 0.87 ug/l

RT: 5.18 min Scan# 754

Delta R.T. 0.01 min

Lab File: VX001909.D

Acq: 22 May 2018 22:18

Instrument :

MSVOA_X

ClientSampleId :

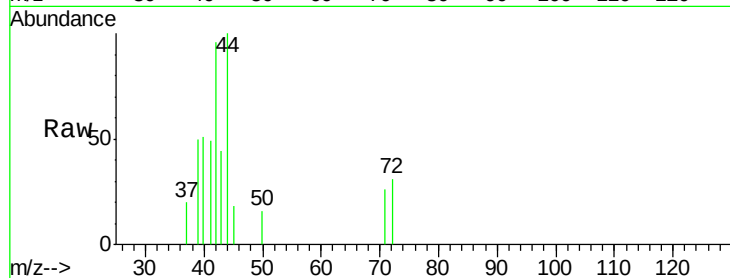
Tot Ion: 42 Resp: 1078

Ion Ratio Lower Upper

42 100

72 15.8 35.4 53.2#

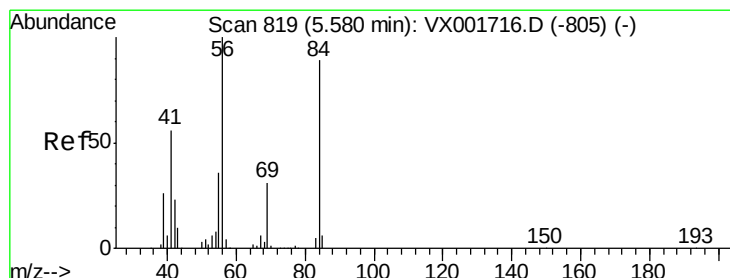
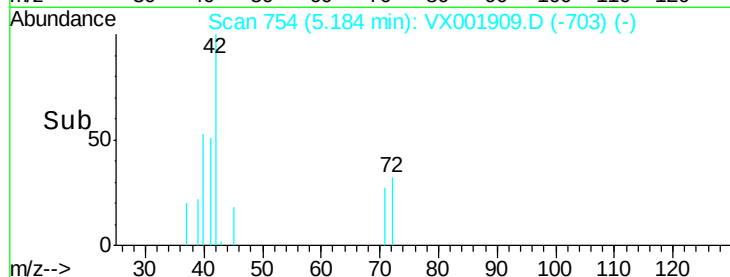
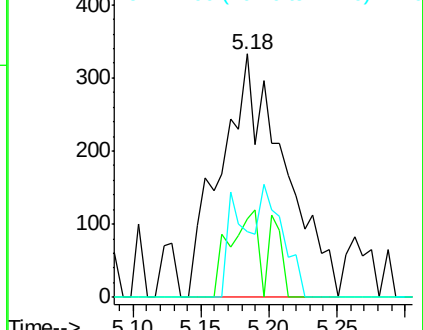
71 14.3 33.2 49.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.01 ug/l

RT: 5.66 min Scan# 832

Delta R.T. 0.08 min

Lab File: VX001909.D

Acq: 22 May 2018 22:18

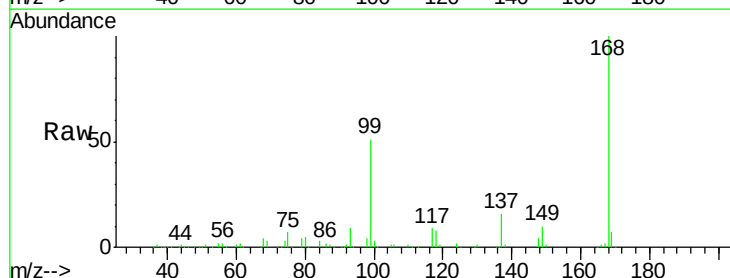
Tgt Ion: 56 Resp: 4023

Ion Ratio Lower Upper

56 100

69 160.8 25.0 37.6#

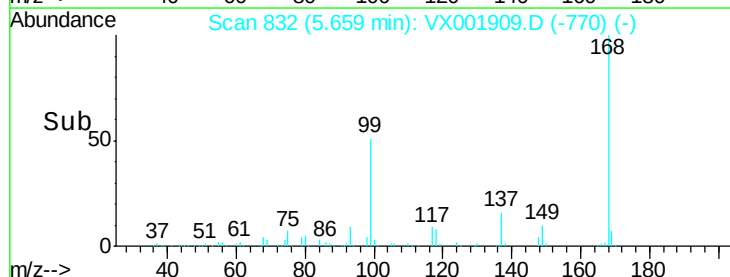
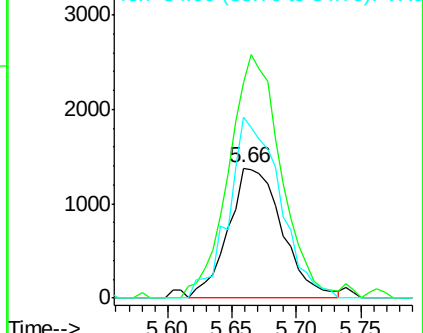
84 138.8 71.0 106.4#

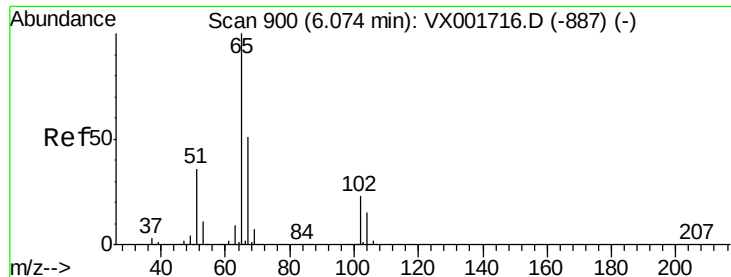


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

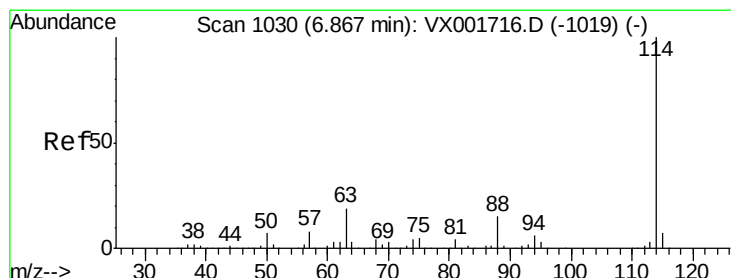
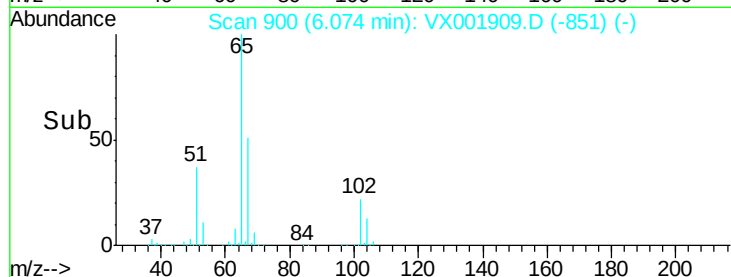
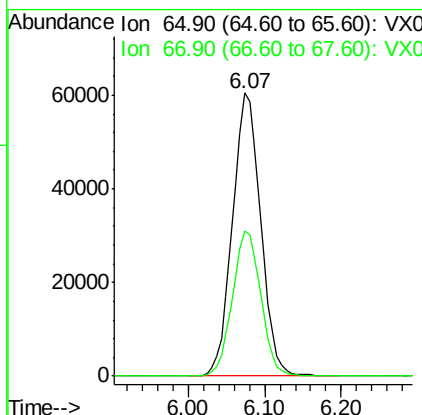
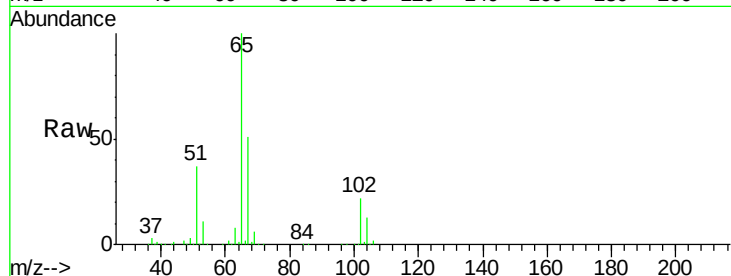




#33
 1,2-Dichloroethane-d4
 Concen: 48.88 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX001909.D
 Acq: 22 May 2018 22:18

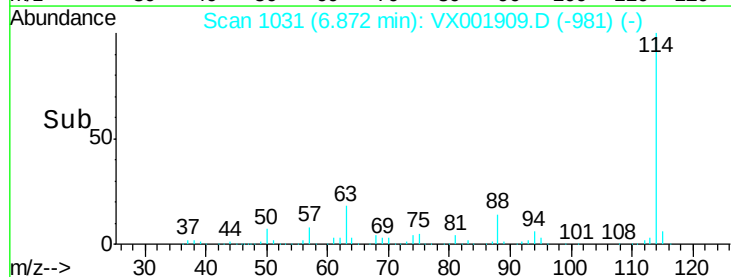
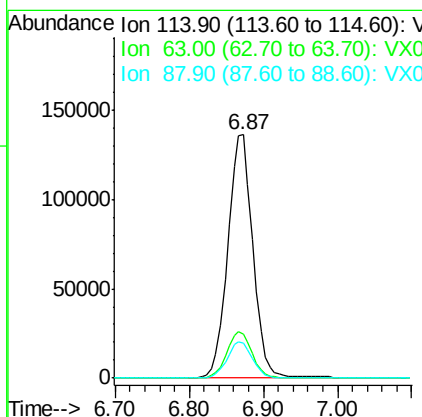
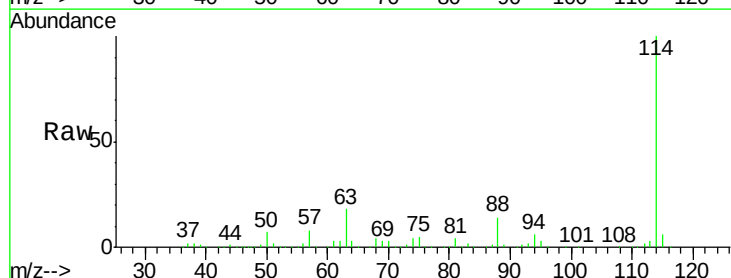
Instrument :
 MSVOA_X
 ClientSampleId :

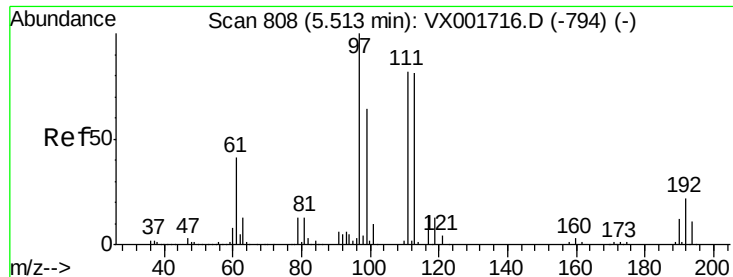
Tot Ion: 65 Resp: 154639
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1031
 Delta R.T. 0.01 min
 Lab File: VX001909.D
 Acq: 22 May 2018 22:18

Tgt Ion: 114 Resp: 320630
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 37.0
 88 14.5 0.0 29.8

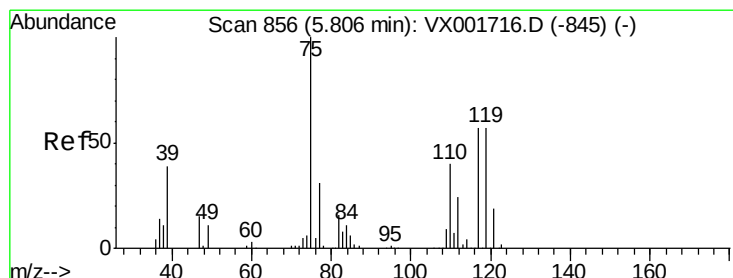
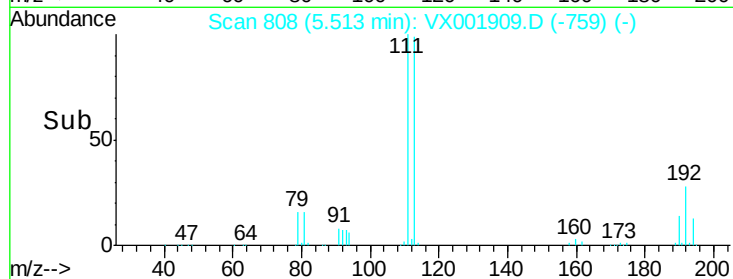
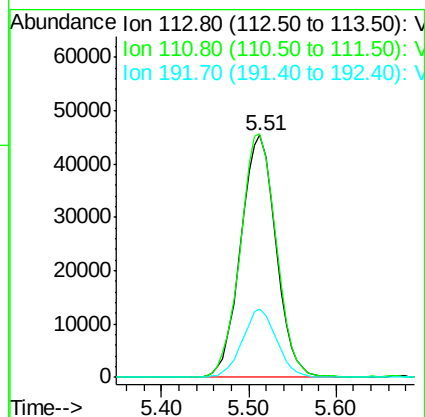
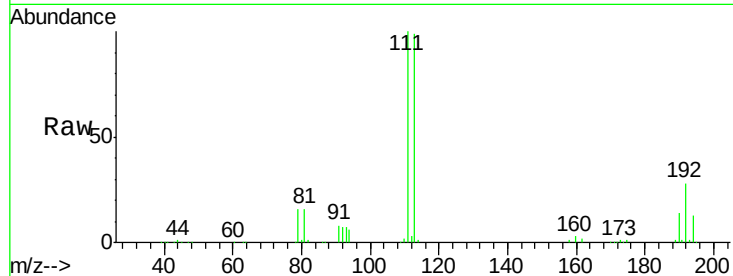




#35
 Dibromofluoromethane
 Concen: 47.09 ug/l
 RT: 5.51 min Scan# 808
 Delta R.T. -0.00 min
 Lab File: VX001909.D
 Acq: 22 May 2018 22:18

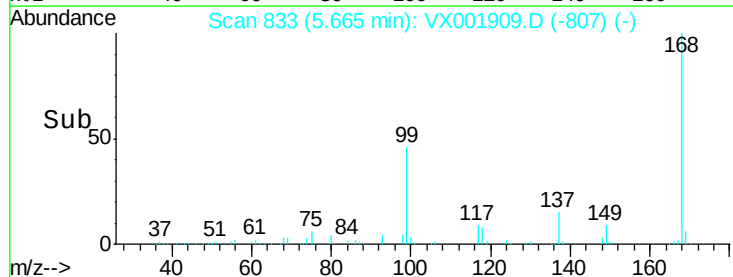
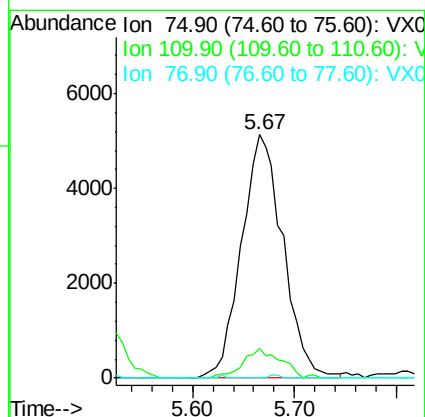
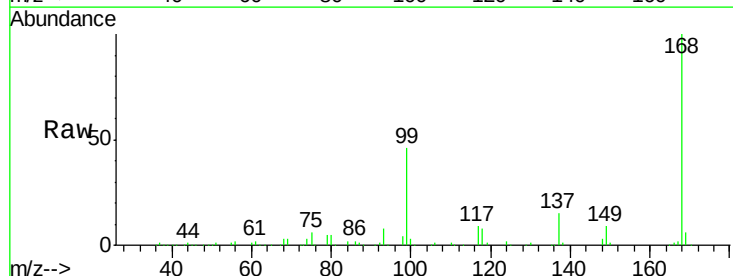
Instrument :
 MSVOA_X
 ClientSampleId :

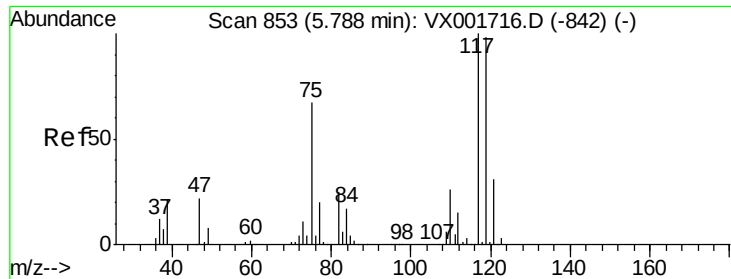
Tot Ion:113 Resp: 127404
 Ion Ratio Lower Upper
 113 100
 111 102.3 82.0 123.0
 192 27.3 21.6 32.4



#36
 1,1-Dichloropropene
 Concen: 3.92 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.14 min
 Lab File: VX001909.D
 Acq: 22 May 2018 22:18

Tgt Ion: 75 Resp: 14487
 Ion Ratio Lower Upper
 75 100
 110 11.3 19.1 57.1#
 77 0.3 24.6 37.0#

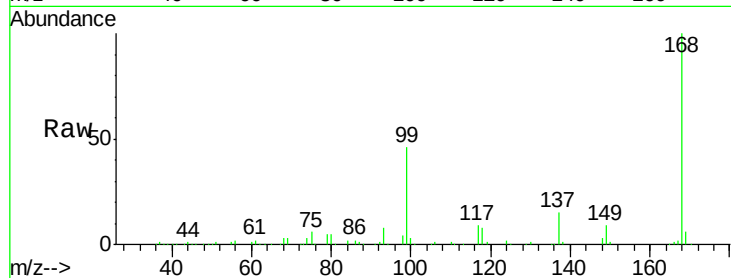




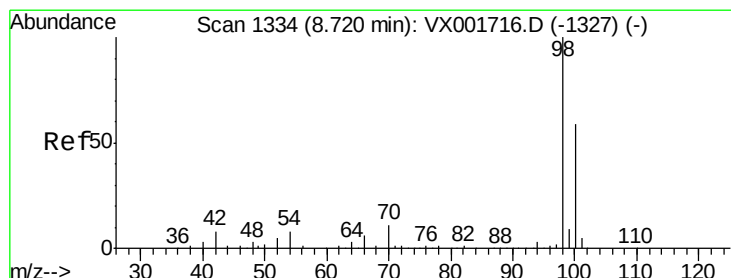
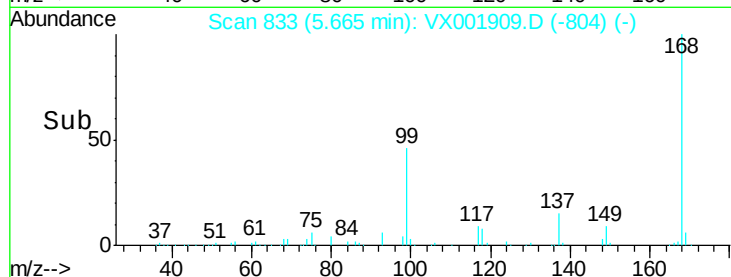
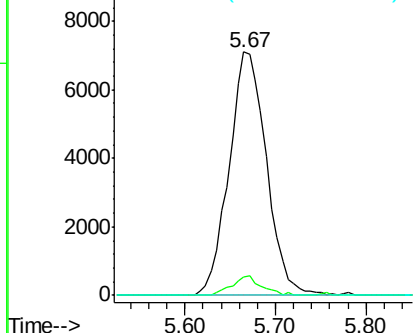
#38
Carbon Tetrachloride
Concen: 5.25 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX001909.D
Acq: 22 May 2018 22:18

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 20299
Ion Ratio Lower Upper
117 100
119 7.4 77.6 116.4#
121 0.0 24.6 36.8#

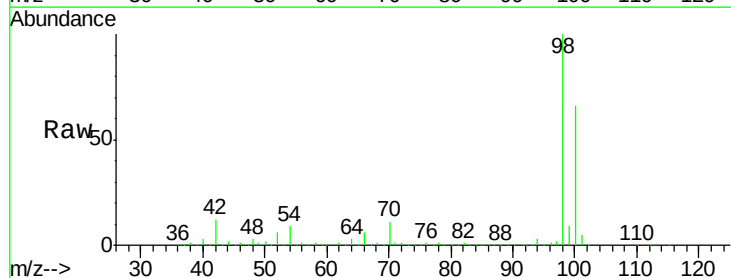


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

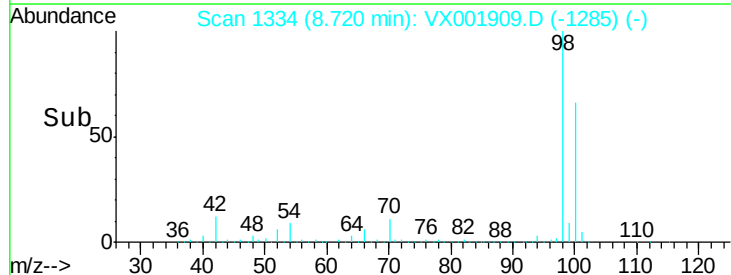
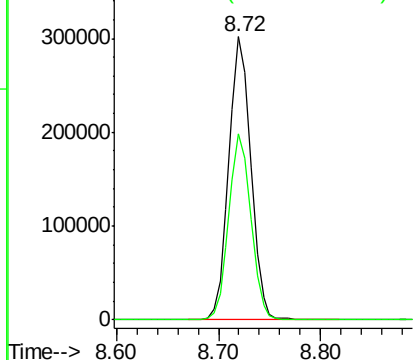


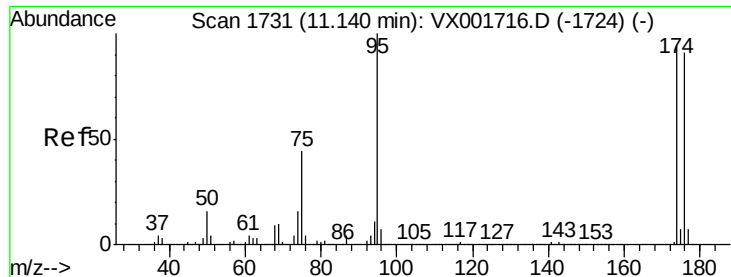
#50
Toluene-d8
Concen: 46.64 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX001909.D
Acq: 22 May 2018 22:18

Tgt Ion: 98 Resp: 451932
Ion Ratio Lower Upper
98 100
100 65.5 54.0 81.0



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

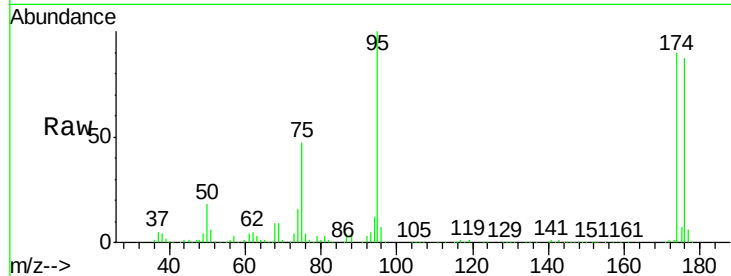




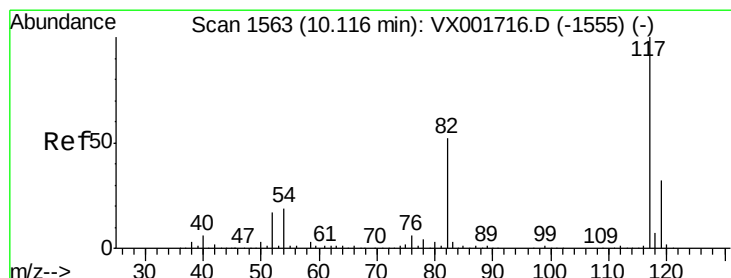
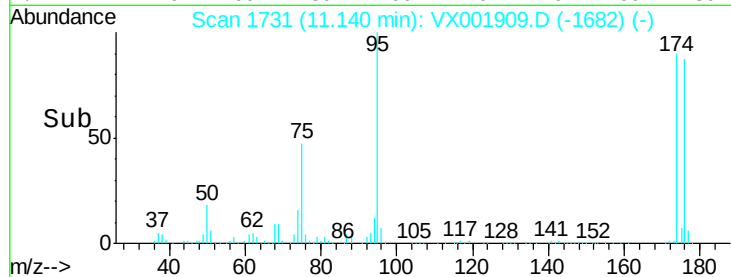
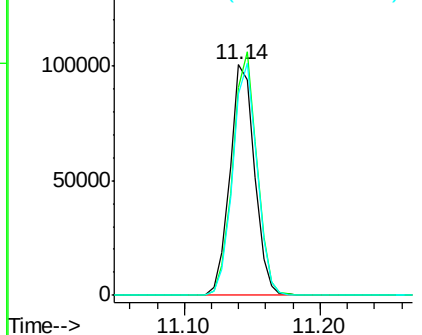
#62
4-Bromofluorobenzene
Concen: 36.33 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX001909.D
Acq: 22 May 2018 22:18

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	95	Resp	126747
Ion	Ratio	Lower	Upper
95	100		
174	103.3	0.0	201.8
176	99.2	0.0	196.8

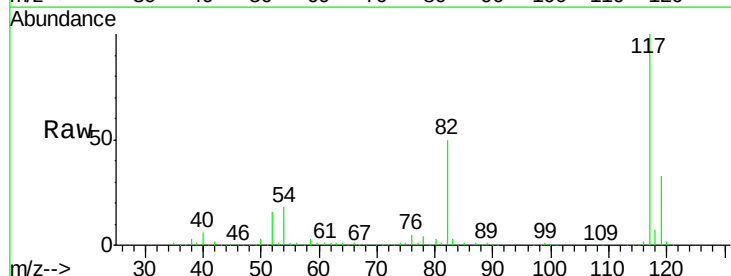


Abundance Ion 94.90 (94.60 to 95.60): VX001716.D (-1724) (-)
Ion 173.80 (173.50 to 174.50): VX001716.D (-1724) (-)
Ion 175.80 (175.50 to 176.50): VX001716.D (-1724) (-)

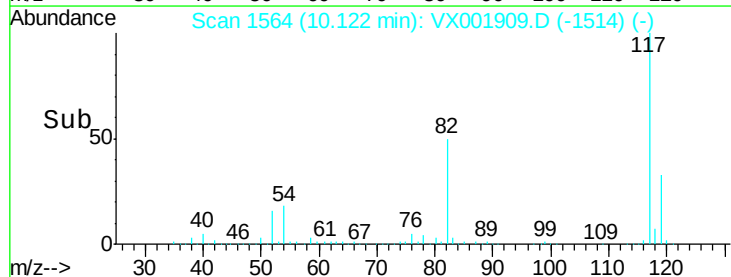
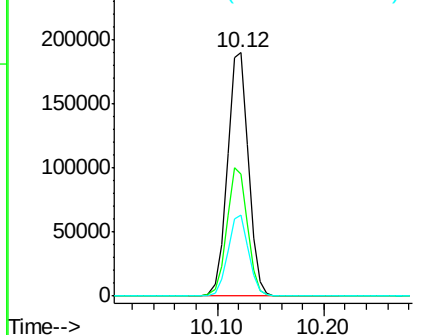


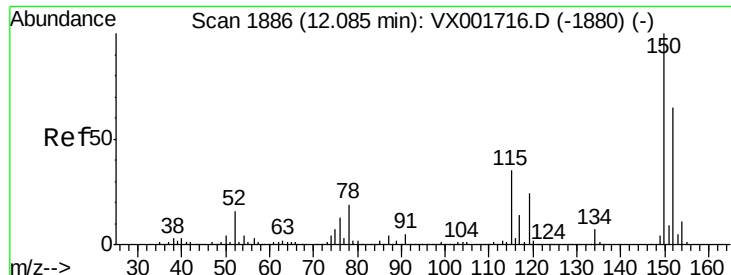
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. 0.01 min
Lab File: VX001909.D
Acq: 22 May 2018 22:18

Tgt Ion	117	Resp	262749
Ion	Ratio	Lower	Upper
117	100		
82	50.2	41.4	62.2
119	33.2	25.6	38.4



Abundance Ion 116.90 (116.60 to 117.60): VX001716.D (-1555) (-)
Ion 82.00 (81.70 to 82.70): VX001716.D (-1555) (-)
Ion 118.90 (118.60 to 119.60): VX001716.D (-1555) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX001909.D

Acq: 22 May 2018 22:18

Instrument :

MSVOA_X

ClientSampled :

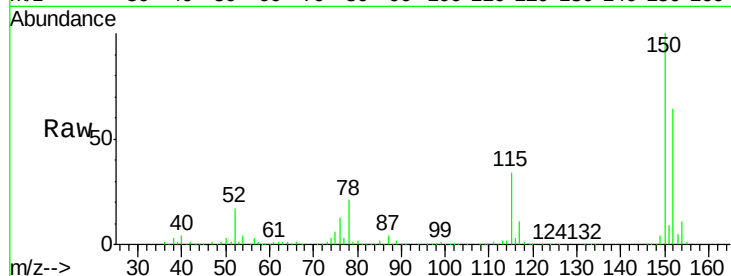
Tot Ion:152 Resp: 128515

Ion Ratio Lower Upper

152 100

115 52.6 37.4 112.2

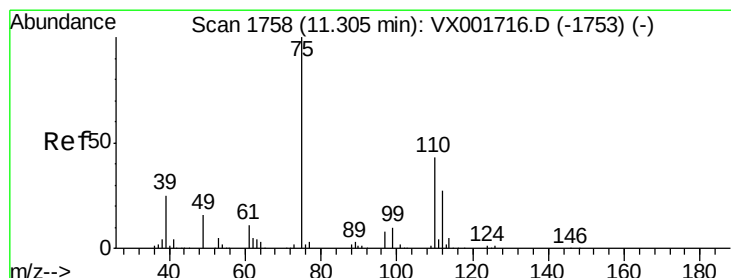
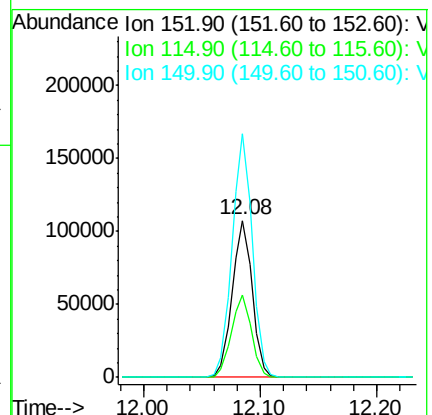
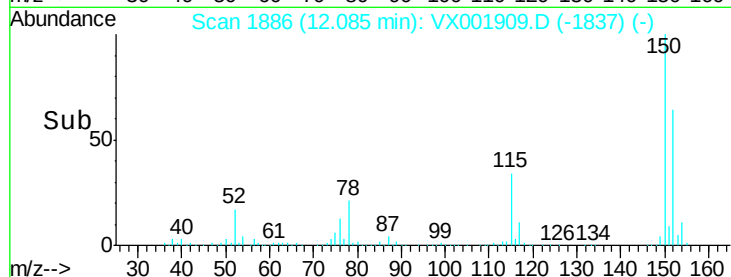
150 155.5 0.0 344.8



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: 24.69 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX001909.D

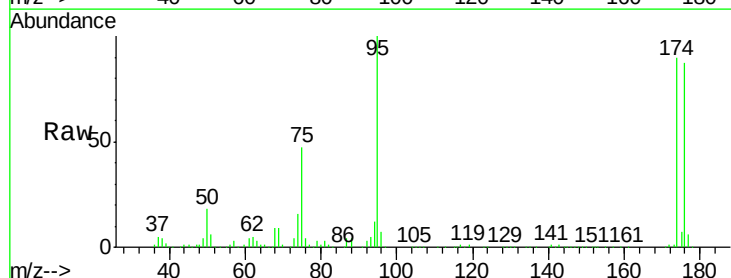
Acq: 22 May 2018 22:18

Tgt Ion: 75 Resp: 60348

Ion Ratio Lower Upper

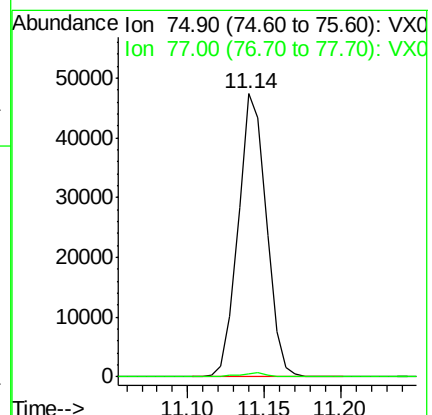
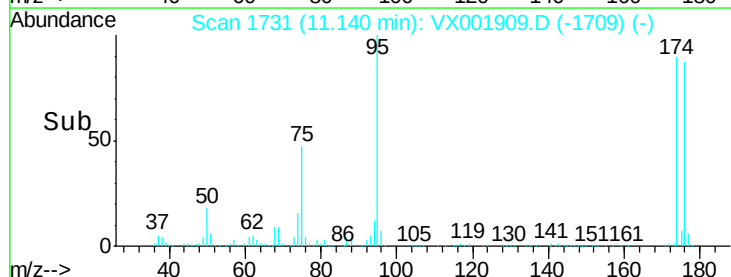
75 100

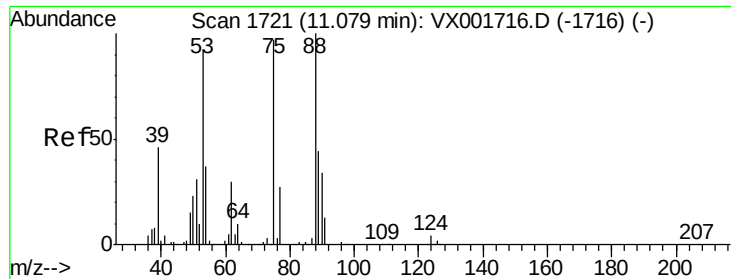
77 1.4 18.9 56.7#



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: 72.03 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX001909.D

Acq: 22 May 2018 22:18

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 60348

Ion Ratio Lower Upper

75 100

53 0.2 79.4 119.2#

89 0.0 38.8 58.2#

