

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101518\
 Data File : VX005341.D
 Acq On : 15 Oct 2018 14:08
 Operator : JC/MD
 Sample : J5472-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 16 03:36:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X101218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 12 11:28:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	272106	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	382485	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	347203	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	166672	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	154404	51.13	ug/l	0.00
Spiked Amount			Recovery	=	102.26%	
35) Dibromofluoromethane	5.50	113	124355	49.09	ug/l	0.00
Spiked Amount			Recovery	=	98.18%	
50) Toluene-d8	8.71	98	462274	53.15	ug/l	0.00
Spiked Amount			Recovery	=	106.30%	
62) 4-Bromofluorobenzene	11.14	95	149712	45.82	ug/l	0.00
Spiked Amount			Recovery	=	91.64%	

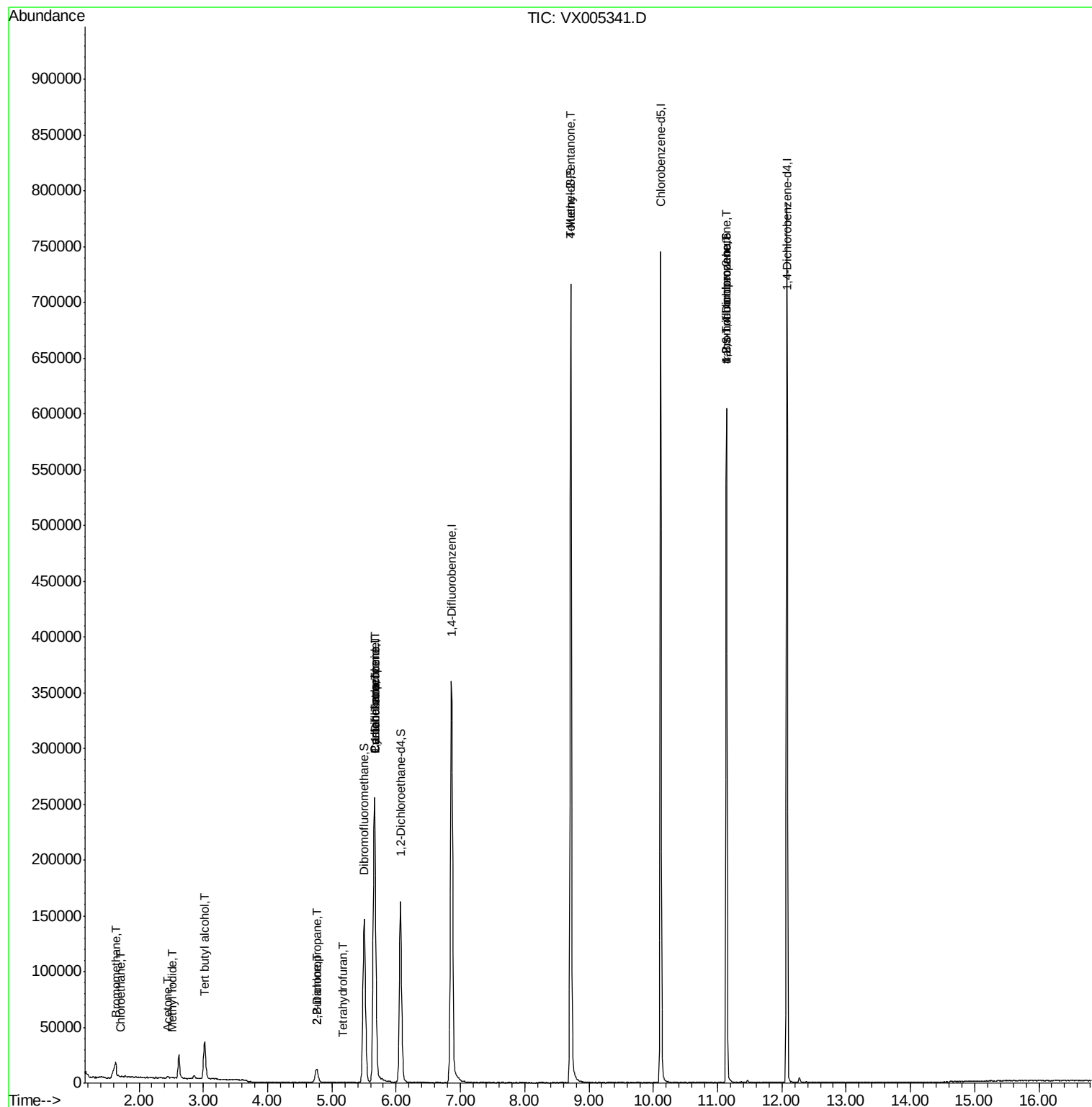
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	726	0.991	ug/l #	73
6) Chloroethane	1.70	64	769	0.711	ug/l #	44
10) Methyl Iodide	2.51	142	329	2.607	ug/l #	87
11) Tert butyl alcohol	3.02	59	21400	25.121	ug/l #	78
13) Acrolein	2.29	56	166	Below Cal	#	50
16) Acetone	2.45	43	1715	0.982	ug/l #	88
20) Methylene Chloride	2.85	84	991	Below Cal	#	83
25) 2-Butanone	4.76	43	1142	0.447	ug/l #	47
26) 2,2-Dichloropropane	4.77	77	1114	0.296	ug/l #	52
29) Tetrahydrofuran	5.17	42	501	0.307	ug/l #	48
31) Cyclohexane	5.67	56	4647	1.119	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	17813	4.809	ug/l #	49
38) Carbon Tetrachloride	5.66	117	24013	6.452	ug/l #	16
44) Trichloroethene	7.21	130	72	Below Cal		92
51) 4-Methyl-2-Pentanone	8.71	43	1948	0.443	ug/l #	1
76) 1,2,3-Trichloropropane	11.14	75	73872	22.850	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	73872	69.428	ug/l #	10

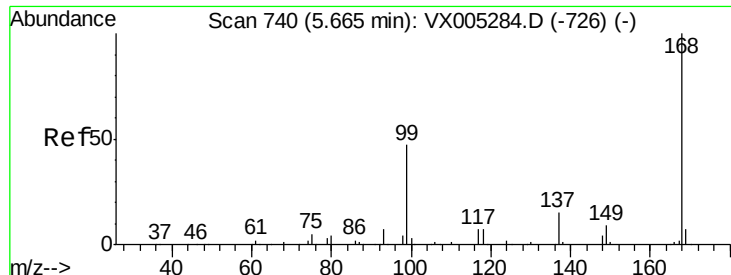
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX101518\
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QLast Update : Fri Oct 12 11:28:43 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Instrument :

MSVOA_X

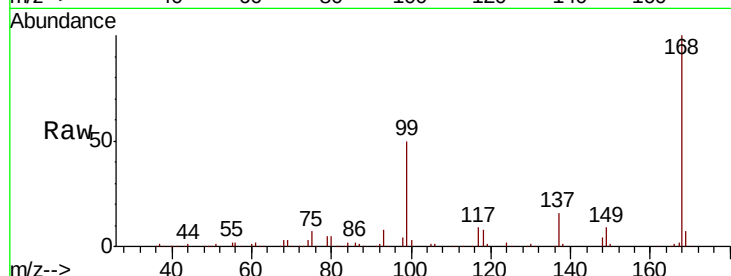
ClientSampleId :

Tot Ion:168 Resp: 272106

Ion Ratio Lower Upper

168 100

99 49.5 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

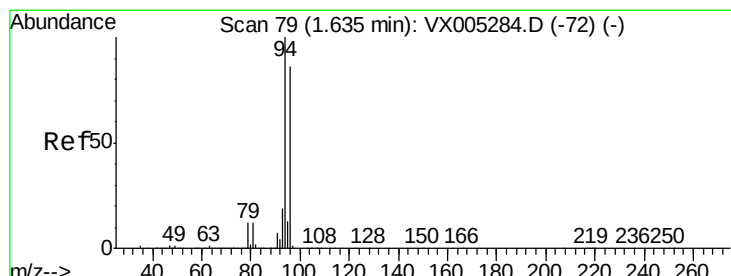
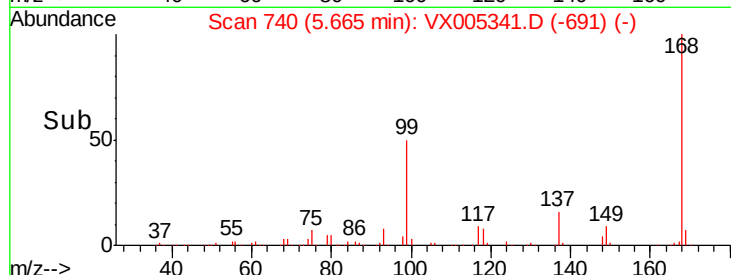
40000

20000

0

Time-->

5.60 5.80



#5

Bromomethane

Concen: 0.991 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX005341.D

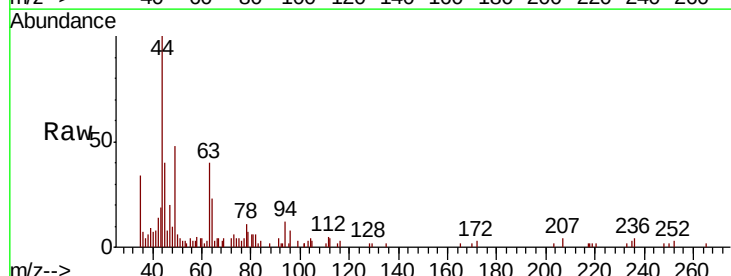
Acq: 15 Oct 2018 14:08

Tgt Ion: 94 Resp: 726

Ion Ratio Lower Upper

94 100

96 67.4 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

400

300

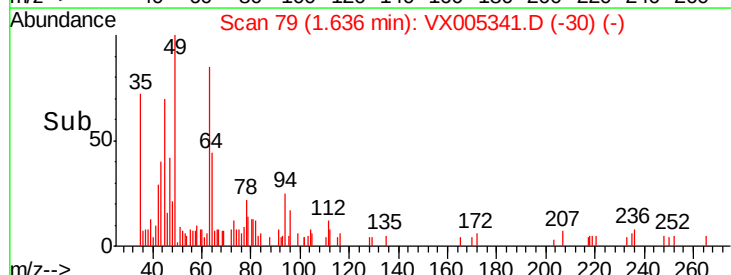
200

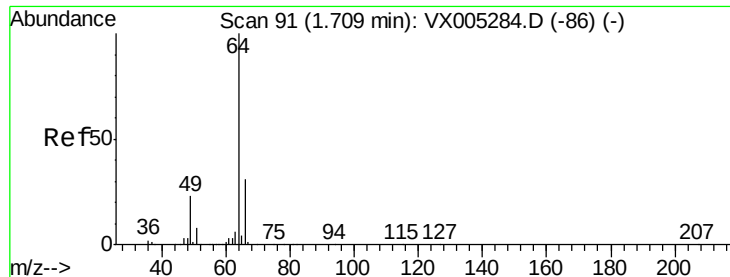
100

0

Time-->

1.55 1.60 1.65 1.70





#6

Chloroethane

Concen: 0.711 ug/l

RT: 1.70 min Scan# 90

Delta R.T. -0.01 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Instrument :

MSVOA_X

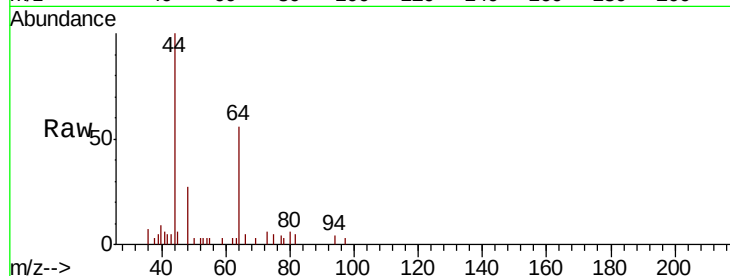
ClientSampled :

Tot Ion: 64 Resp: 769

Ion Ratio Lower Upper

64 100

66 0.0 24.6 36.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.70

1200

1000

800

600

400

200

0

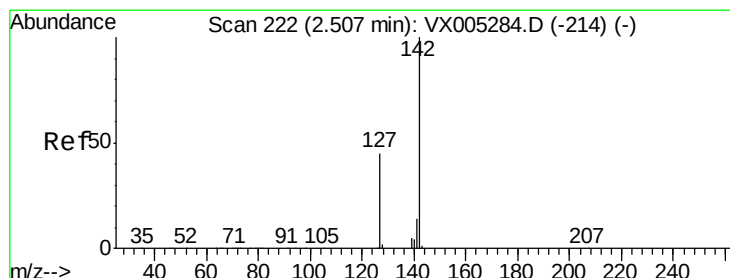
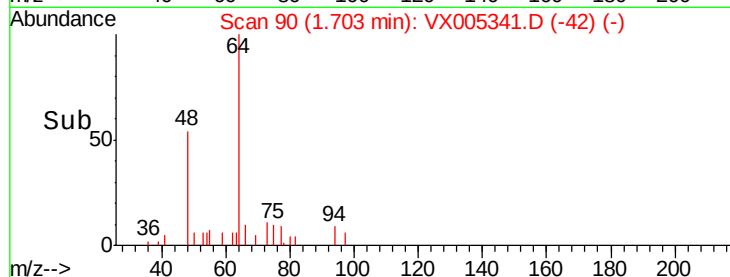
1.66

1.68

1.70

1.72

Time-->



#10

Methyl Iodide

Concen: 2.607 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

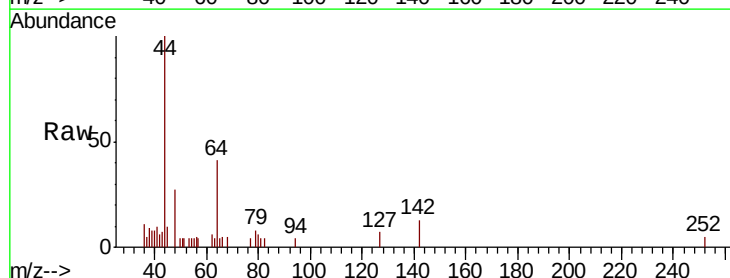
Tgt Ion: 142 Resp: 329

Ion Ratio Lower Upper

142 100

127 38.9 33.8 50.6

141 0.0 11.4 17.0#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

100

50

0

2.50

2.51

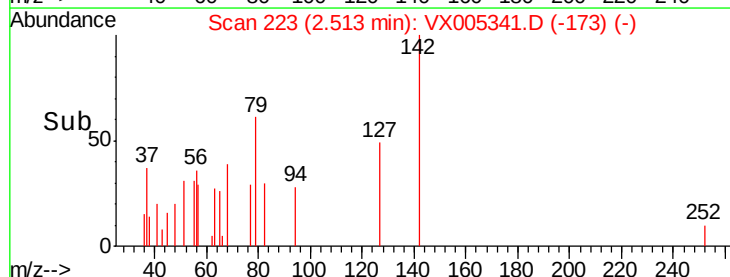
2.52

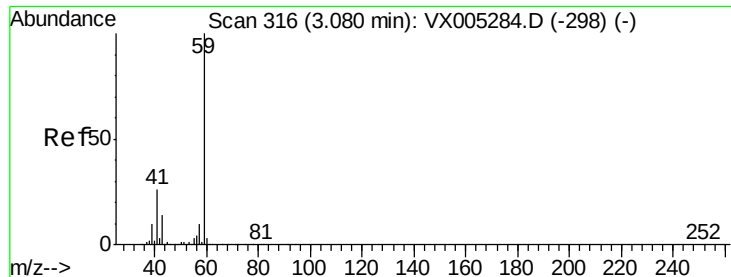
2.53

2.54

2.55

Time-->



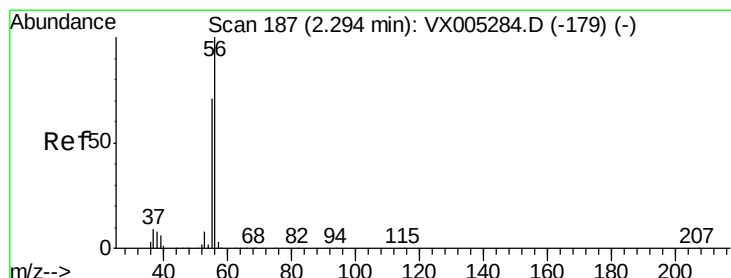
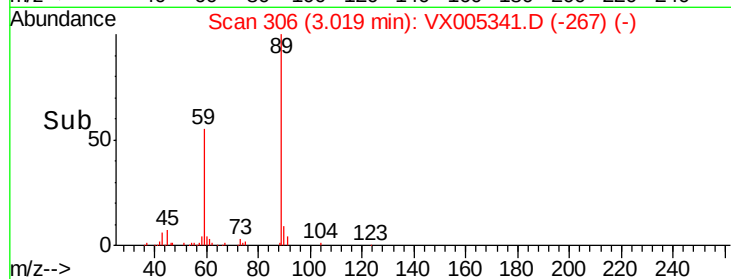
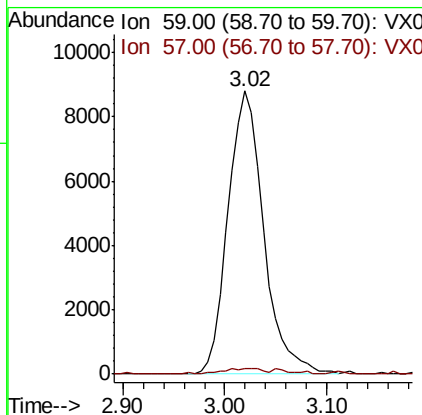
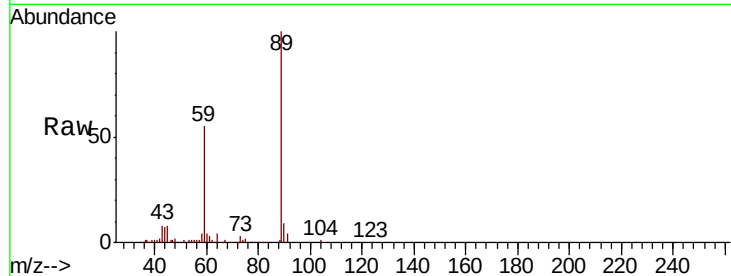


#11

Tert butyl alcohol
 Concen: 25.121 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.06 min
 Lab File: VX005341.D
 Acq: 15 Oct 2018 14:08

Instrument :
 MSVOA_X
 ClientSampleId :

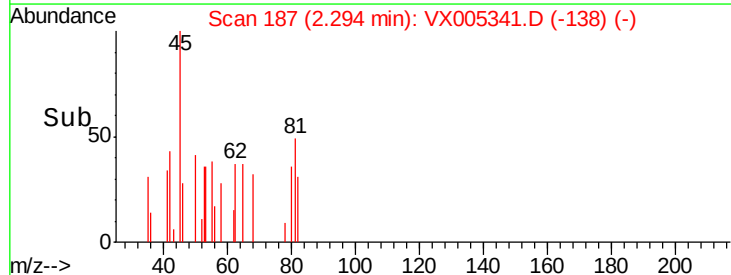
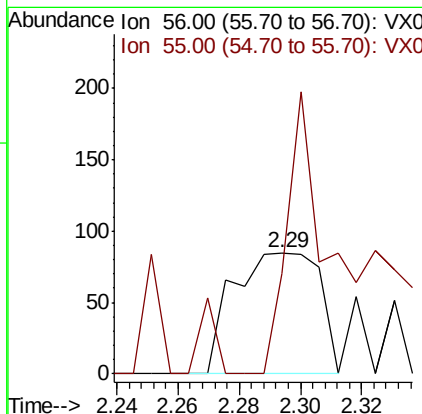
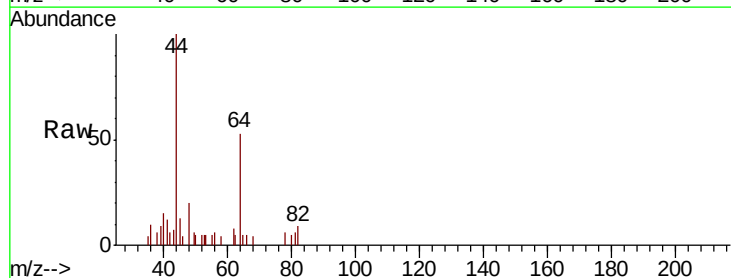
Tot Ion: 59 Resp: 21400
 Ion Ratio Lower Upper
 59 100
 57 2.3 8.2 12.4#

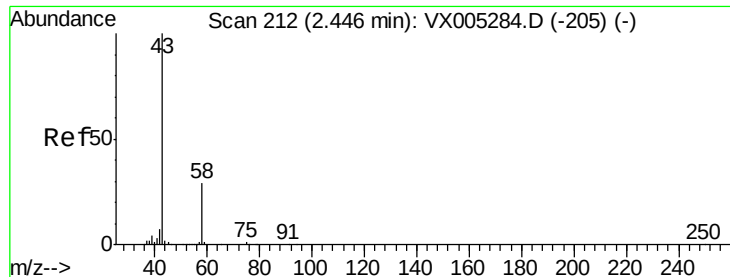


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 187
 Delta R.T. 0.00 min
 Lab File: VX005341.D
 Acq: 15 Oct 2018 14:08

Tgt Ion: 56 Resp: 166
 Ion Ratio Lower Upper
 56 100
 55 109.0 54.7 82.1#





#16

Acetone

Concen: 0.982 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Instrument :

MSVOA_X

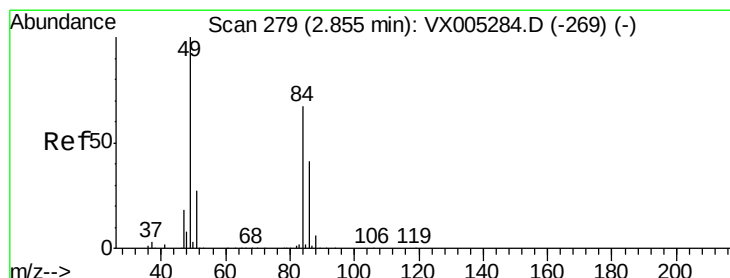
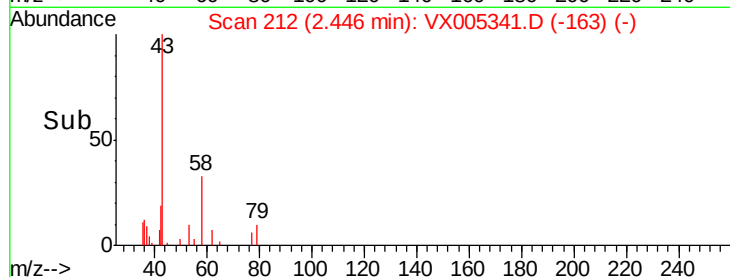
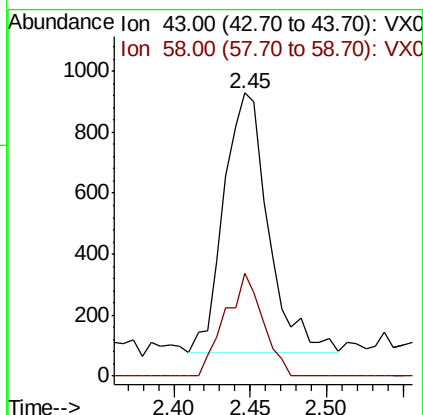
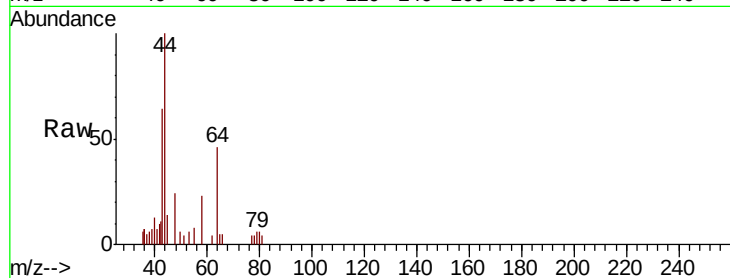
ClientSampleId :

Tot Ion: 43 Resp: 1715

Ion Ratio Lower Upper

43 100

58 39.5 26.2 39.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.85 min Scan# 278

Delta R.T. -0.01 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Tgt Ion: 84 Resp: 991

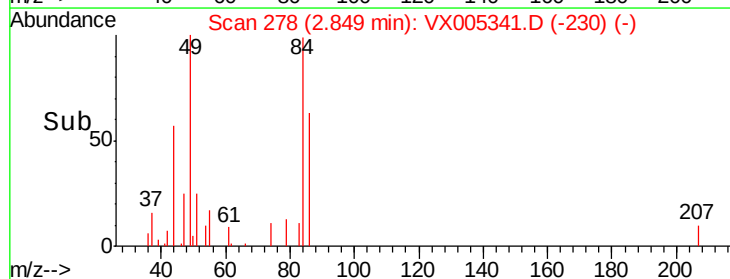
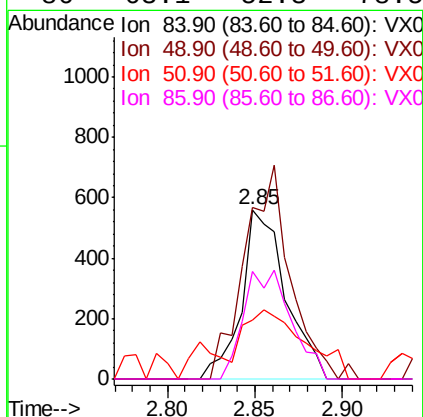
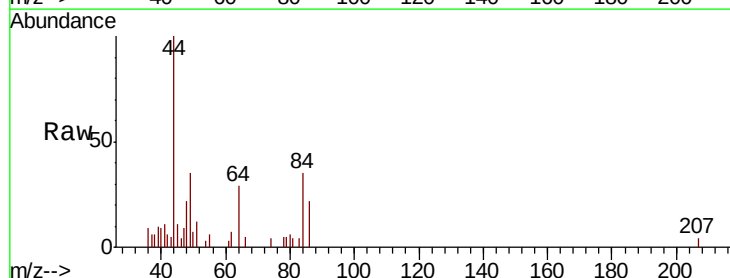
Ion Ratio Lower Upper

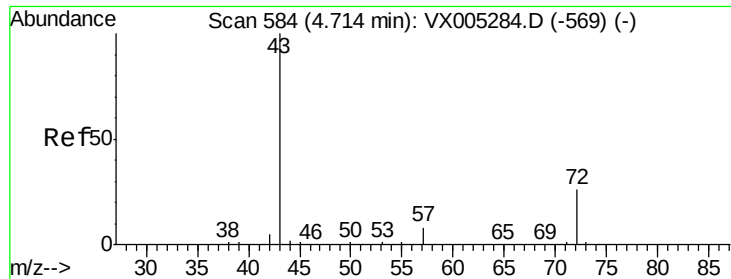
84 100

49 100.9 101.2 151.8#

51 22.5 29.5 44.3#

86 63.1 52.3 78.5





#25

2-Butanone

Concen: 0.447 ug/l

RT: 4.76 min Scan# 591

Delta R.T. 0.04 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Instrument :

MSVOA_X

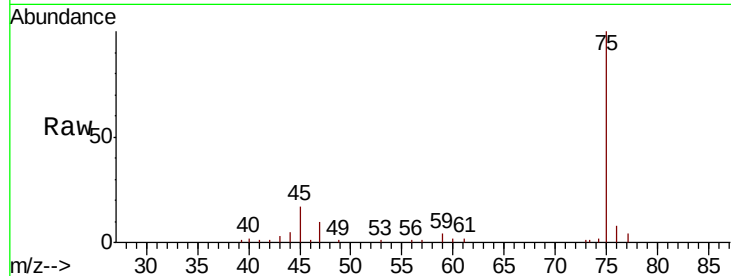
ClientSampled :

Tot Ion: 43 Resp: 1142

Ion Ratio Lower Upper

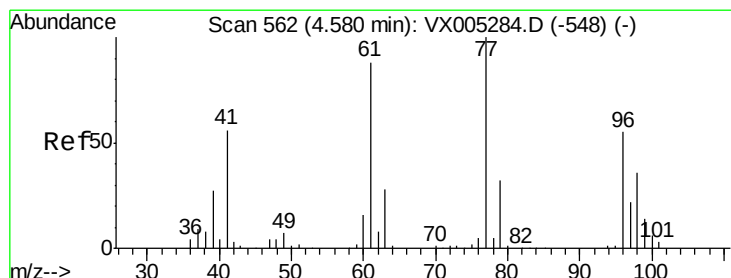
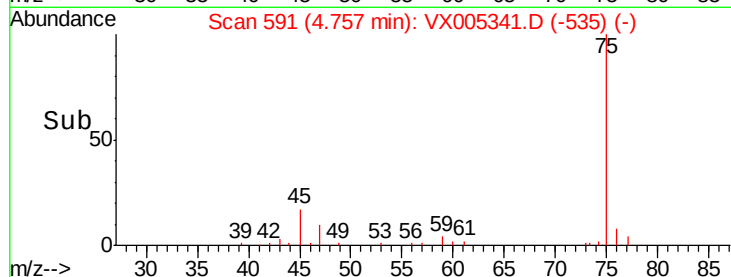
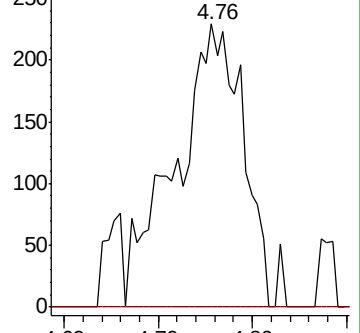
43 100

72 0.0 22.0 33.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 0.296 ug/l

RT: 4.77 min Scan# 593

Delta R.T. 0.19 min

Lab File: VX005341.D

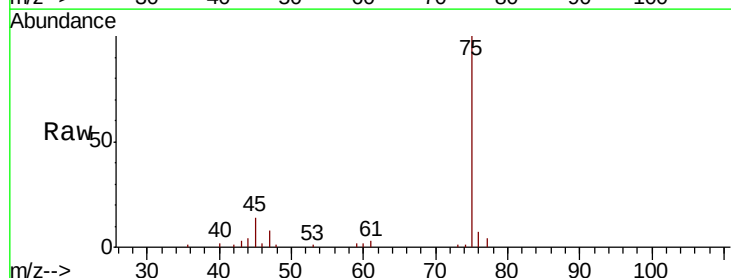
Acq: 15 Oct 2018 14:08

Tgt Ion: 77 Resp: 1114

Ion Ratio Lower Upper

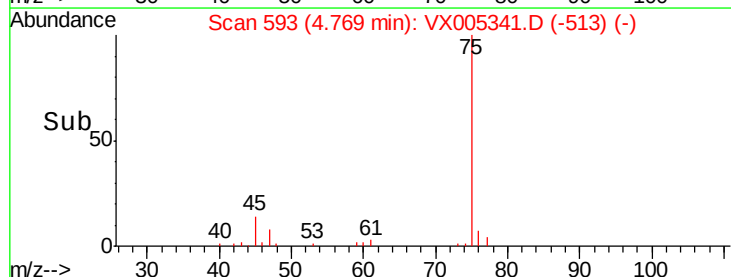
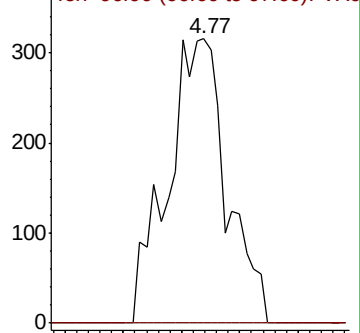
77 100

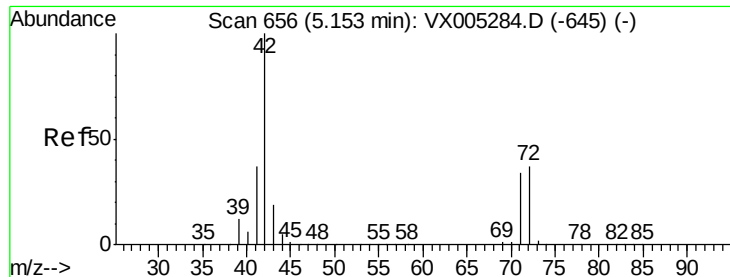
97 0.0 11.7 35.0#



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#29

Tetrahydrofuran

Concen: 0.307 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Instrument :

MSVOA_X

ClientSampled :

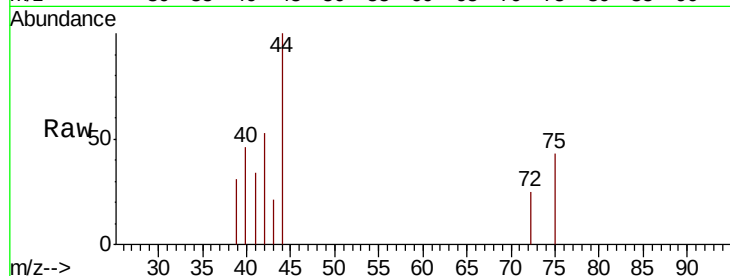
Tot Ion: 42 Resp: 501

Ion Ratio Lower Upper

42 100

72 13.6 37.4 56.0#

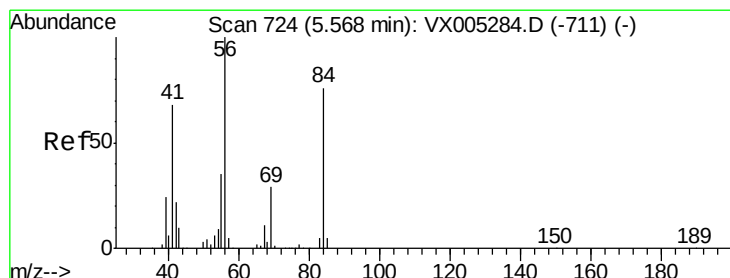
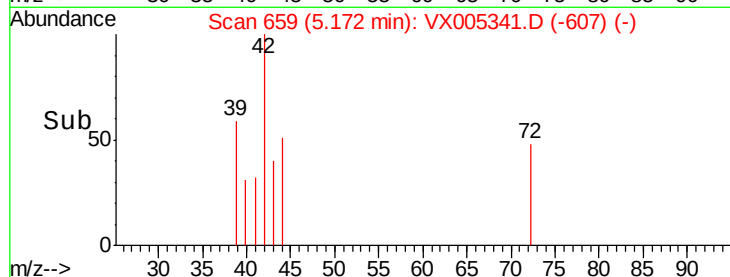
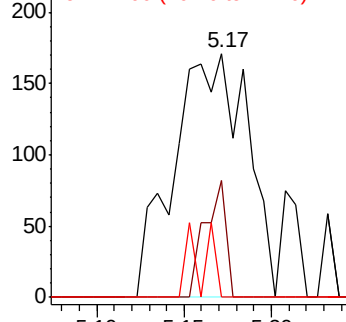
71 7.6 34.5 51.7#



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: 1.119 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.10 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

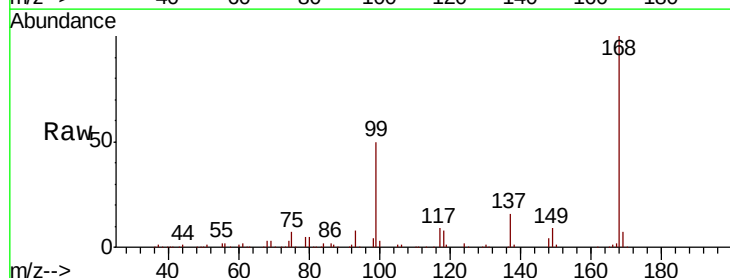
Tgt Ion: 56 Resp: 4647

Ion Ratio Lower Upper

56 100

69 207.2 25.4 38.2#

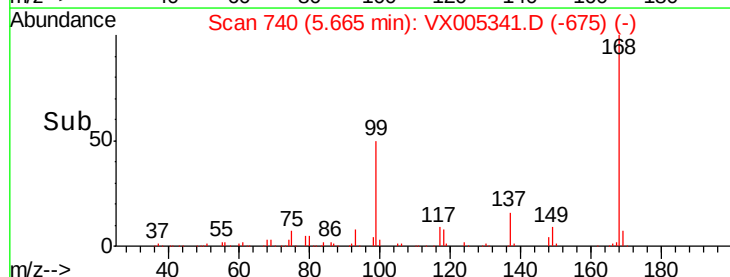
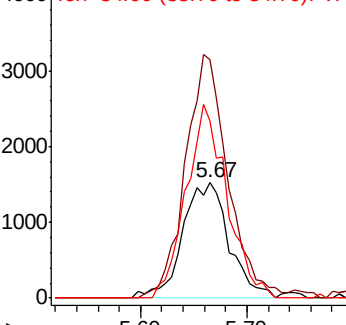
84 153.9 71.4 107.2#

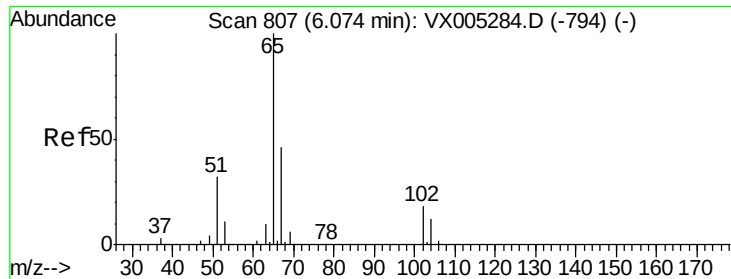


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

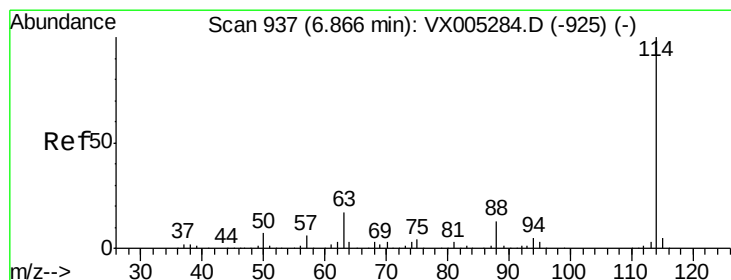
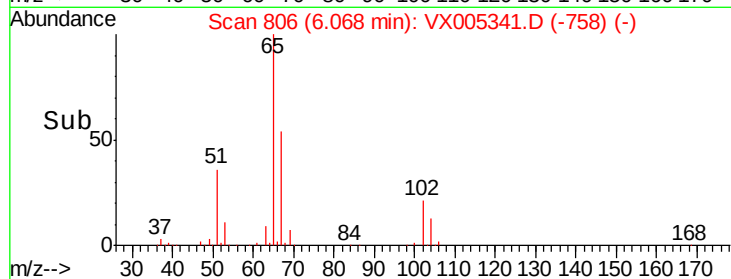
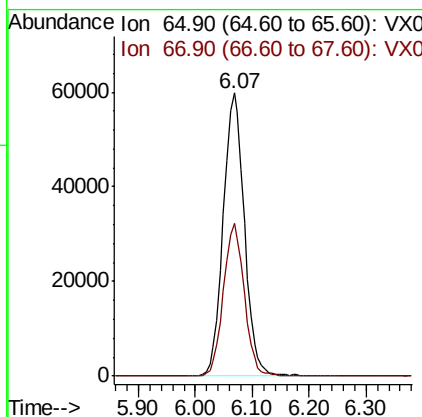
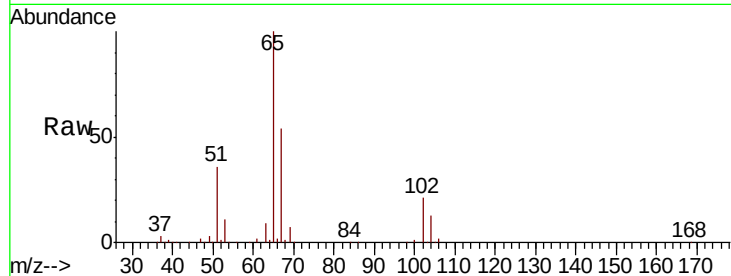




#33
 1,2-Dichloroethane-d4
 Concen: 51.128 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005341.D
 Acq: 15 Oct 2018 14:08

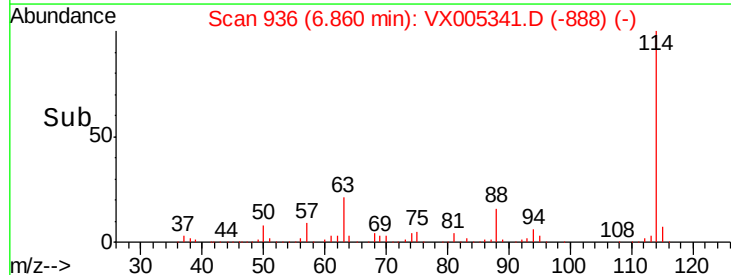
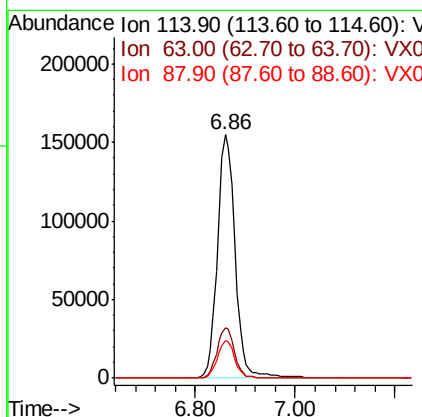
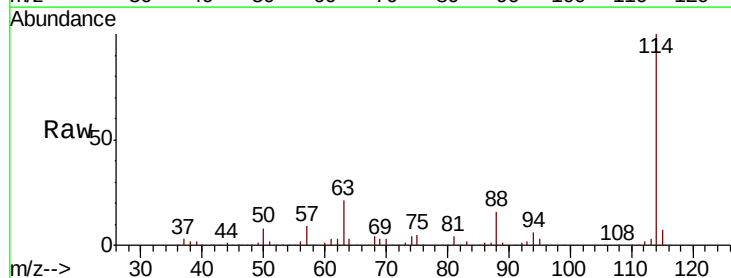
Instrument :
 MSVOA_X
 ClientSampleId :

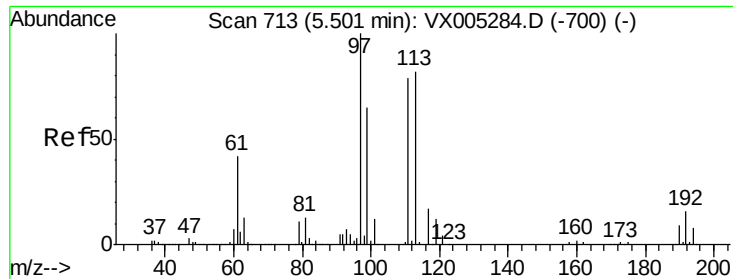
Tot Ion: 65 Resp: 154404
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005341.D
 Acq: 15 Oct 2018 14:08

Tgt Ion: 114 Resp: 382485
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 39.0
 88 15.5 0.0 30.4

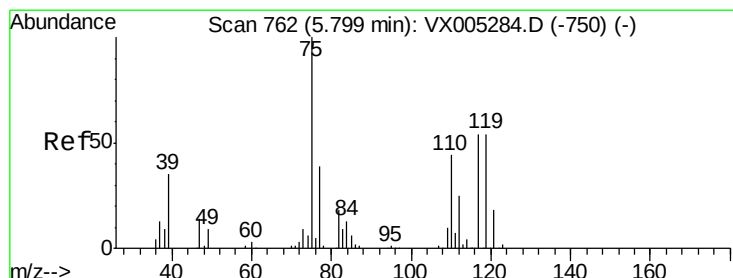
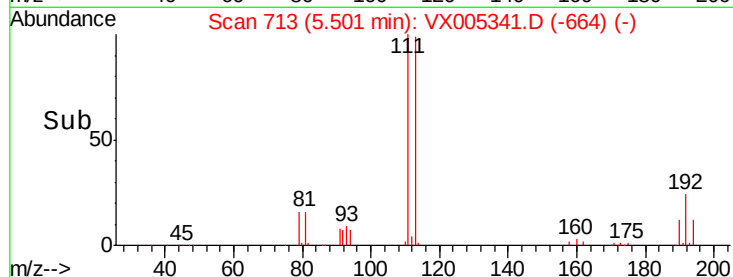
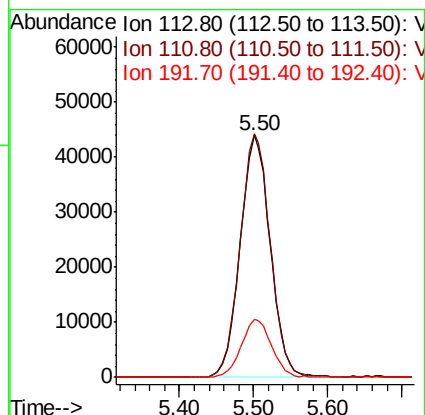
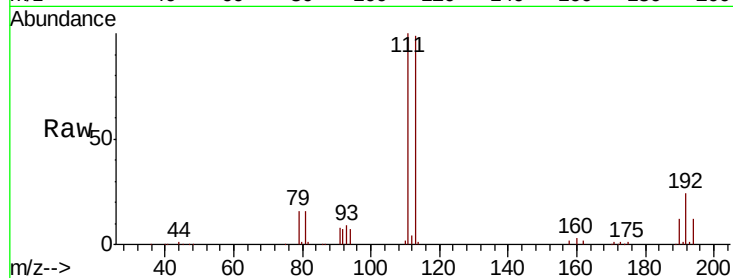




#35
 Dibromofluoromethane
 Concen: 49.088 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX005341.D
 Acq: 15 Oct 2018 14:08

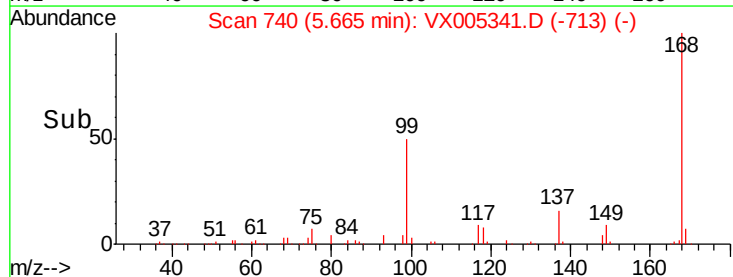
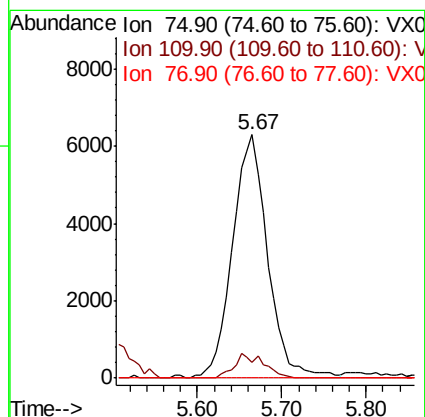
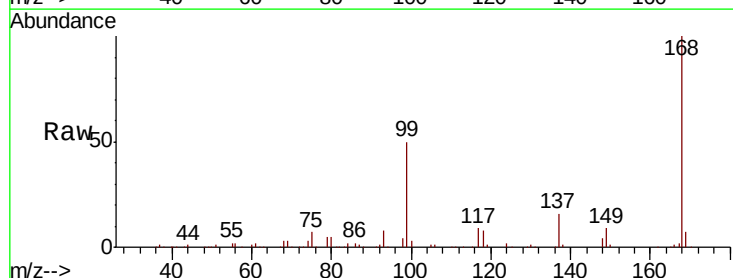
Instrument :
 MSVOA_X
 ClientSampled :

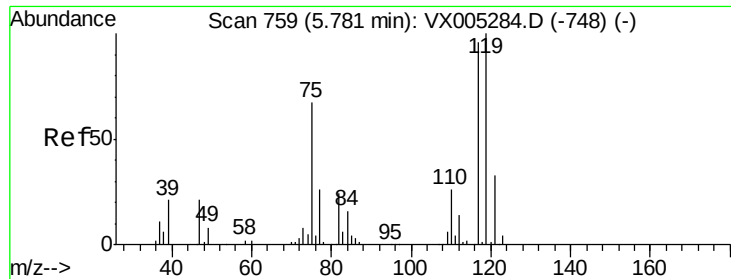
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.4	123.6
192	24.3	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 4.809 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005341.D
 Acq: 15 Oct 2018 14:08

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.0	54.0#
77	0.0	24.6	36.8#





#38

Carbon Tetrachloride

Concen: 6.452 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Instrument :

MSVOA_X

ClientSampleId :

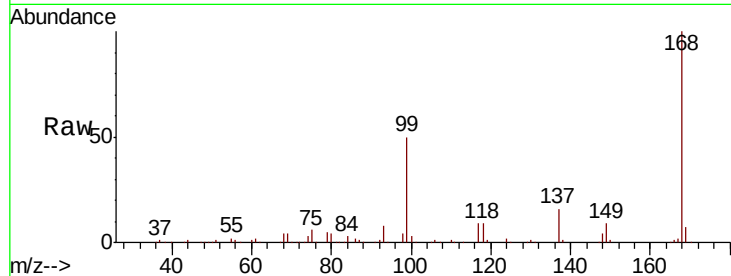
Tot Ion:117 Resp: 24013

Ion Ratio Lower Upper

117 100

119 6.7 78.8 118.2#

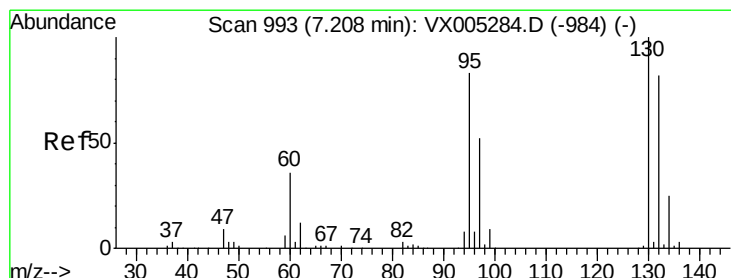
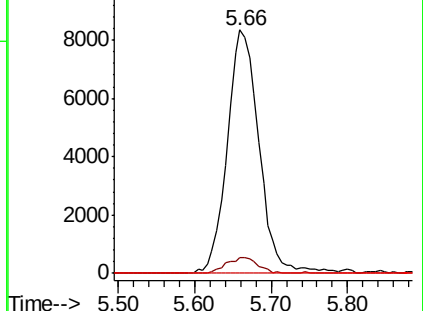
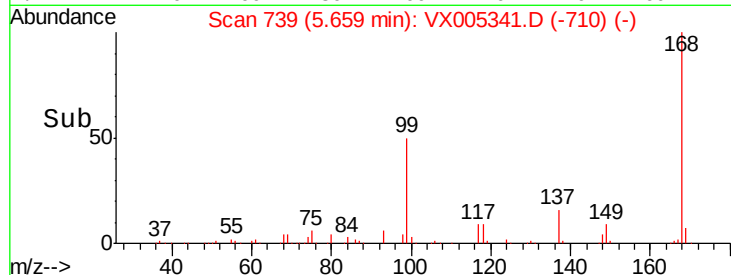
121 0.0 24.9 37.3#



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



#44

Trichloroethene

Concen: Below Cal

RT: 7.21 min Scan# 993

Delta R.T. 0.00 min

Lab File: VX005341.D

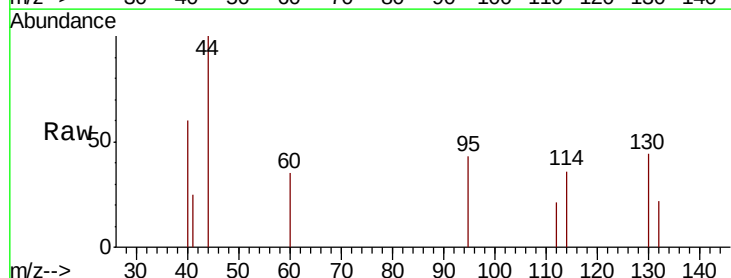
Acq: 15 Oct 2018 14:08

Tgt Ion:130 Resp: 72

Ion Ratio Lower Upper

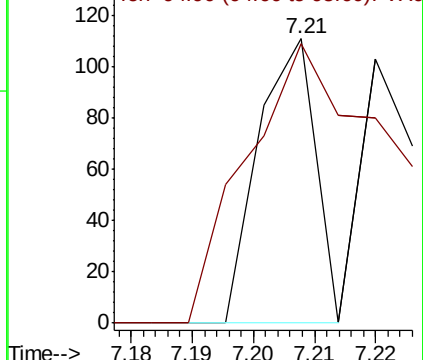
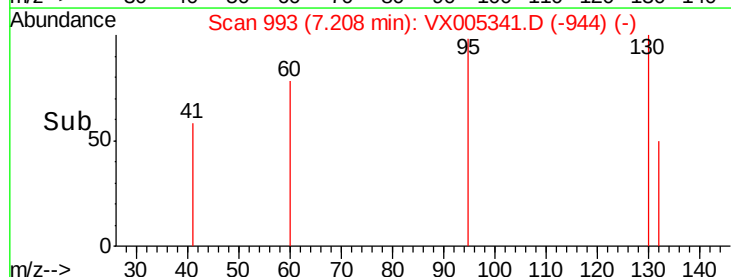
130 100

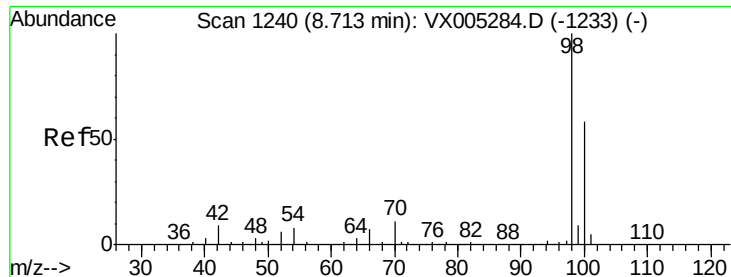
95 98.2 0.0 181.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#50

Toluene-d8

Concen: 53.153 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Instrument :

MSVOA_X

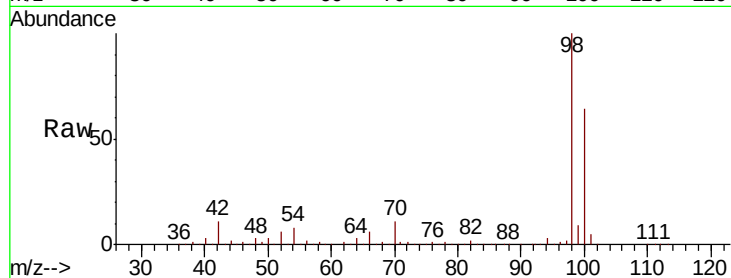
ClientSampleId :

Tot Ion: 98 Resp: 462274

Ion Ratio Lower Upper

98 100

100 63.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.71

250000

200000

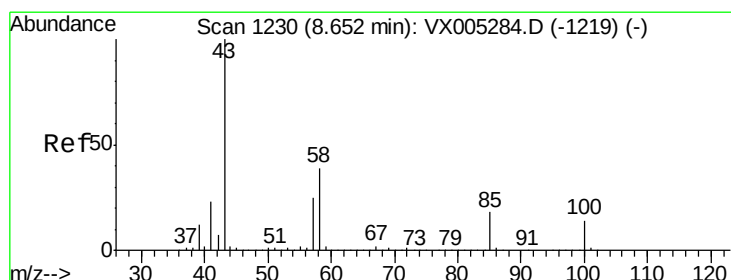
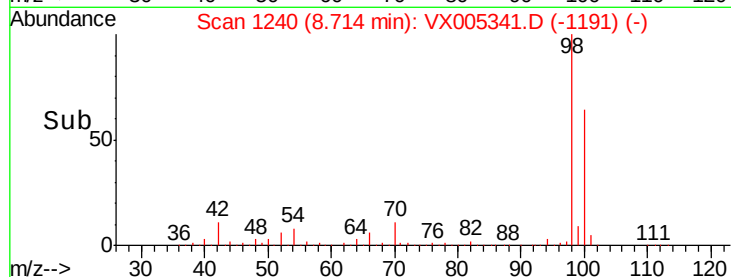
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.443 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.06 min

Lab File: VX005341.D

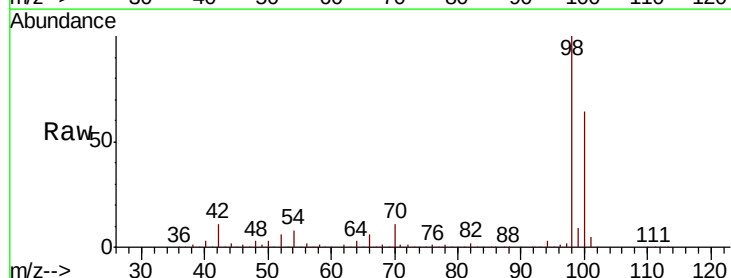
Acq: 15 Oct 2018 14:08

Tgt Ion: 43 Resp: 1948

Ion Ratio Lower Upper

43 100

58 195.1 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

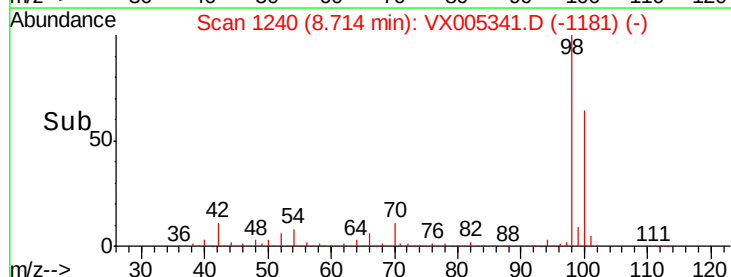
1500

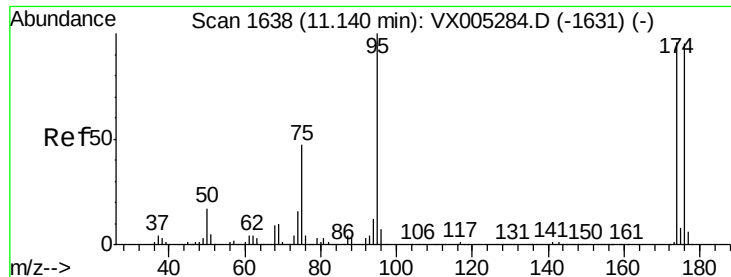
1000

500

0

Time-->

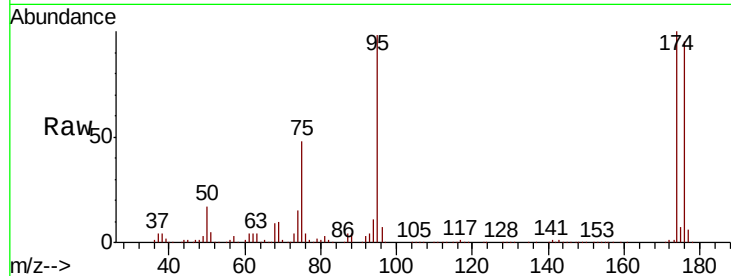




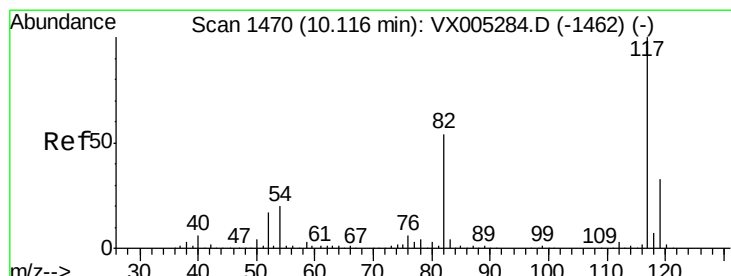
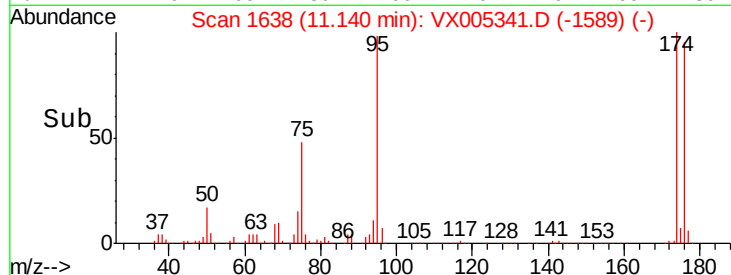
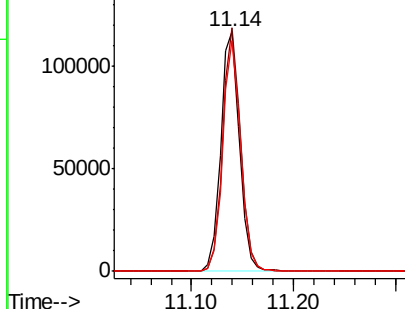
#62
4-Bromofluorobenzene
Concen: 45.824 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005341.D
Acq: 15 Oct 2018 14:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 95 Resp: 149712
Ion Ratio Lower Upper
95 100
174 97.3 0.0 185.2
176 92.5 0.0 178.6

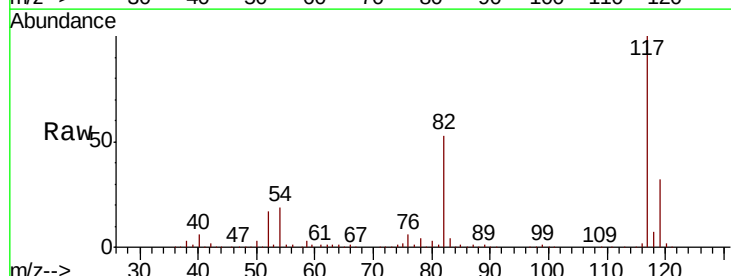


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

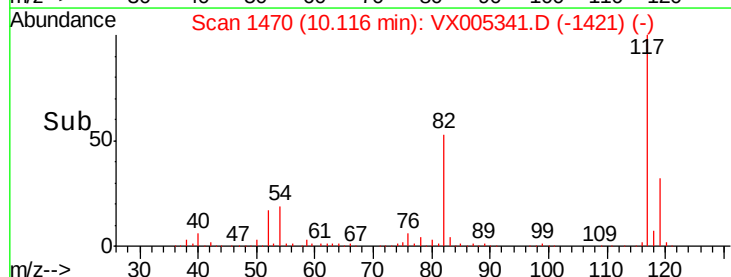
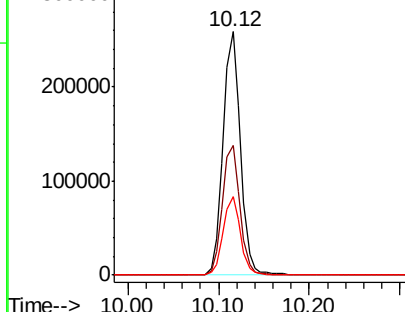


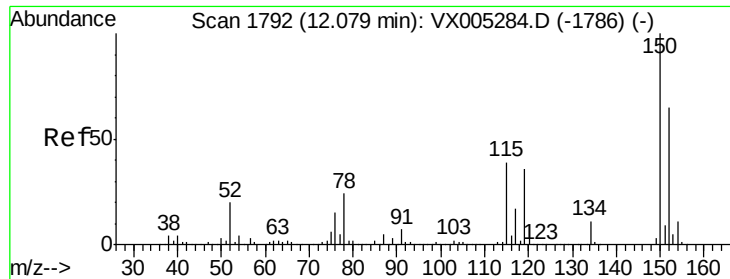
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005341.D
Acq: 15 Oct 2018 14:08

Tgt Ion: 117 Resp: 347203
Ion Ratio Lower Upper
117 100
82 53.1 47.8 71.6
119 32.4 29.3 43.9



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V



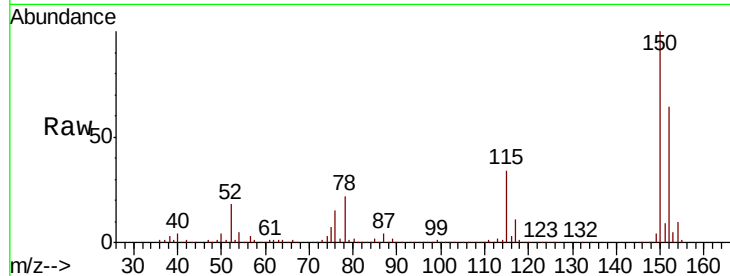


#72

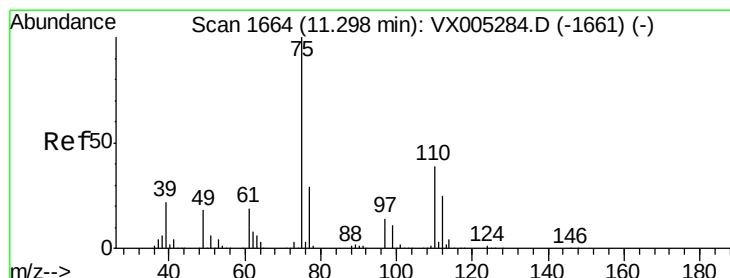
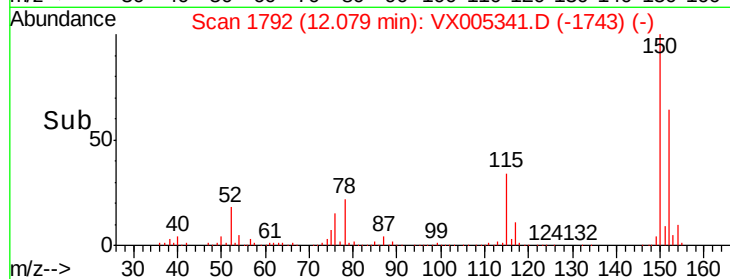
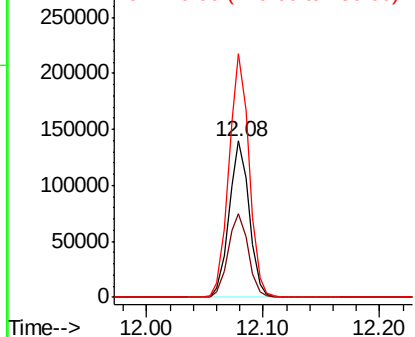
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX005341.D
Acq: 15 Oct 2018 14:08

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:152 Resp: 166672
Ion Ratio Lower Upper
152 100
115 54.4 39.0 117.0
150 156.4 0.0 351.0



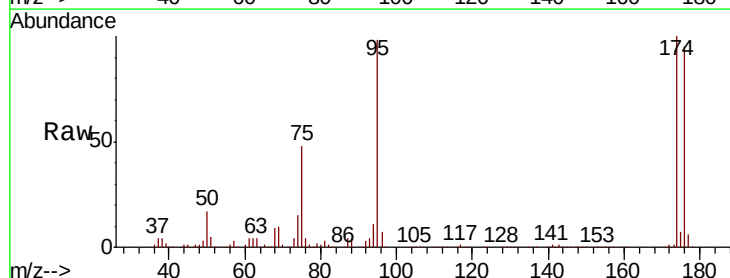
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



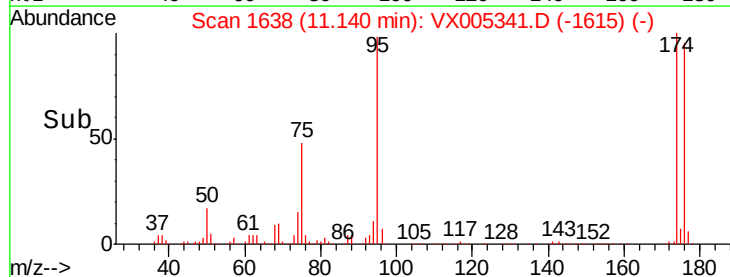
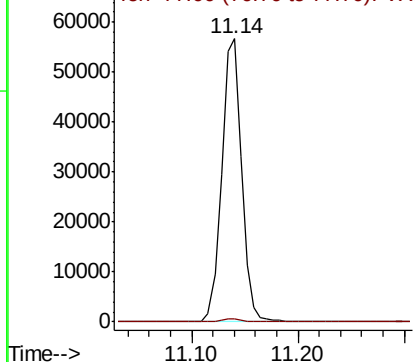
#76

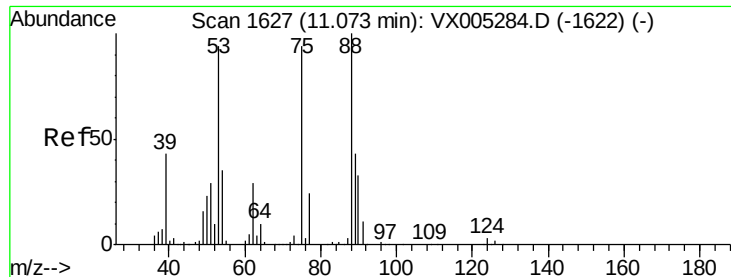
1,2,3-Trichloropropane
Concen: 22.850 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005341.D
Acq: 15 Oct 2018 14:08

Tgt Ion: 75 Resp: 73872
Ion Ratio Lower Upper
75 100
77 1.2 20.2 60.6#



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: 69.428 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005341.D

Acq: 15 Oct 2018 14:08

Instrument :

MSVOA_X

ClientSampleId :

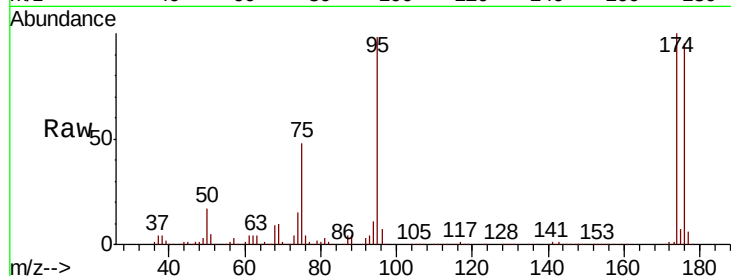
Tot Ion: 75 Resp: 73872

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

