

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101818\
 Data File : VX005435.D
 Acq On : 18 Oct 2018 17:30
 Operator : JC/MD
 Sample : J5549-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID-50-2

Quant Time: Oct 19 03:34:35 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

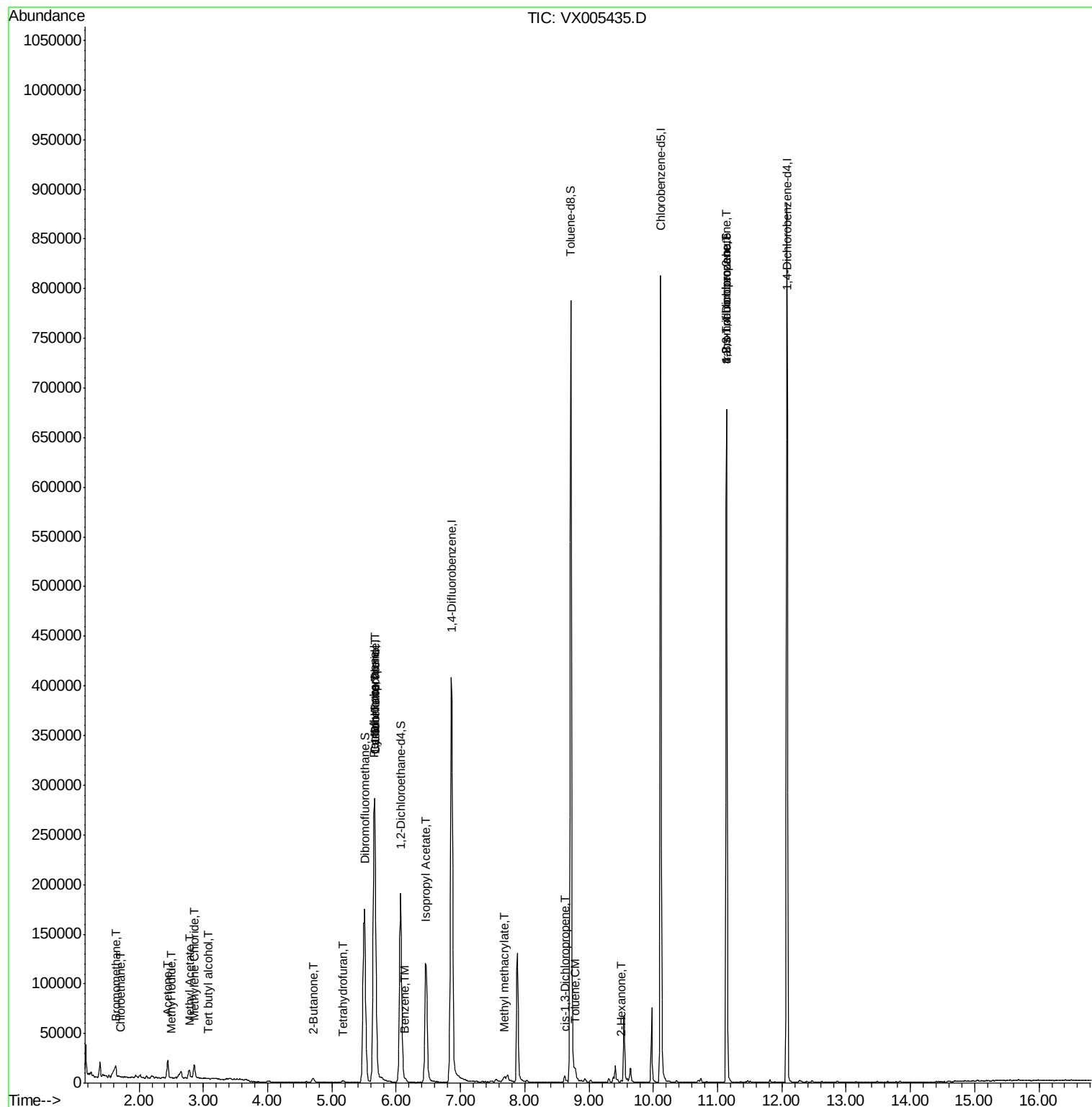
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	315930	50.00	ug/l	-0.01
34) 1,4-Difluorobenzene	6.86	114	440670	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	390607	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	190015	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	178160	50.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	101.62%	
35) Dibromofluoromethane	5.51	113	152734	52.33	ug/l	0.00
Spiked Amount 50.000			Recovery	=	104.66%	
50) Toluene-d8	8.71	98	518273	51.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	103.44%	
62) 4-Bromofluorobenzene	11.14	95	172420	45.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.62%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	493	0.822	ug/l #	80
6) Chloroethane	1.72	64	778	0.663	ug/l #	84
10) Methyl Iodide	2.51	142	101	2.520	ug/l #	65
11) Tert butyl alcohol	3.07	59	906	0.916	ug/l	95
13) Acrolein	2.29	56	204	Below Cal	#	16
16) Acetone	2.45	43	18445	9.098	ug/l	96
18) Methyl Acetate	2.78	43	10060	1.744	ug/l	97
20) Methylene Chloride	2.85	84	6456	0.900	ug/l	83
25) 2-Butanone	4.71	43	7277	2.453	ug/l	98
29) Tetrahydrofuran	5.17	42	1784	0.943	ug/l #	57
31) Cyclohexane	5.66	56	5088	1.056	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19796	4.638	ug/l #	49
38) Carbon Tetrachloride	5.66	117	26873	6.267	ug/l #	15
40) Benzene	6.14	78	2754	0.215	ug/l	93
43) Isopropyl Acetate	6.47	43	168306	23.020	ug/l	96
48) Methyl methacrylate	7.68	41	6363	1.678	ug/l #	19
52) Toluene	8.79	92	1675	0.239	ug/l	99
54) cis-1,3-Dichloropropene	8.62	75	1055	0.235	ug/l #	66
59) 2-Hexanone	9.50	43	869	0.213	ug/l	79
76) 1,2,3-Trichloropropane	11.14	75	82713	22.441	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	82713	68.187	ug/l #	10

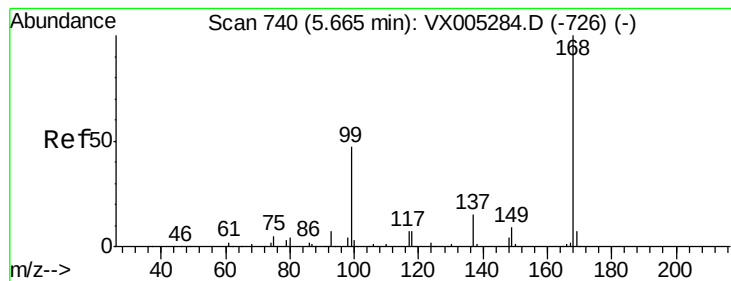
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 12 11:28:43 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.01 min

Lab File: VX005435.D

Acq: 18 Oct 2018 17:30

Instrument :

MSVOA_X

ClientSampleId :

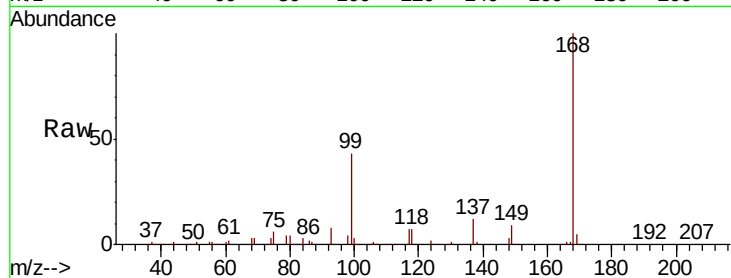
CB-1018-S-TCLP-GRID-50-2

Tot Ion:168 Resp: 315930

Ion Ratio Lower Upper

168 100

99 43.1 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

120000

100000

80000

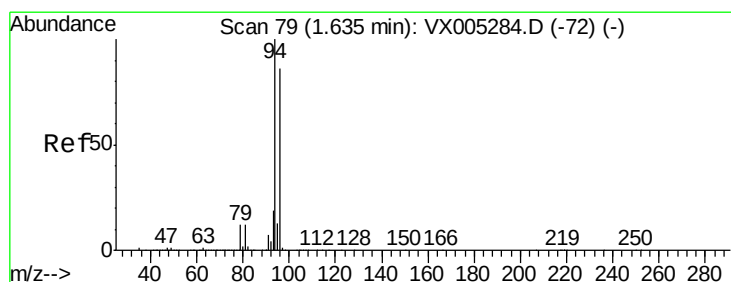
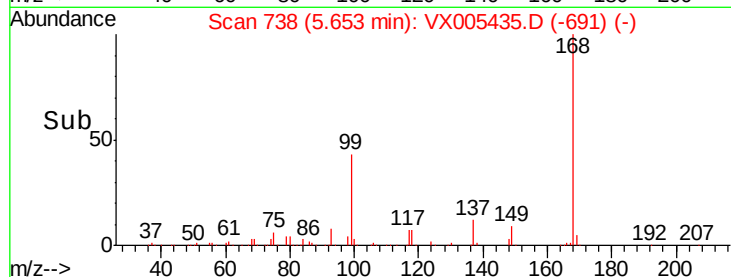
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.822 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX005435.D

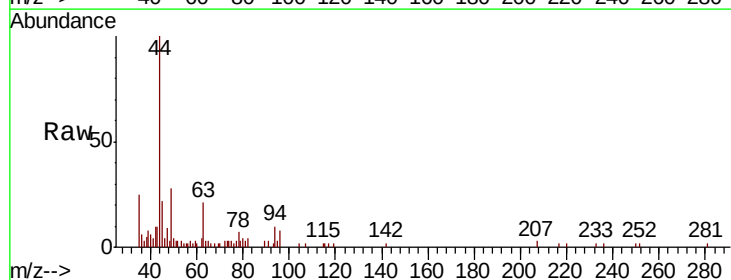
Acq: 18 Oct 2018 17:30

Tgt Ion: 94 Resp: 493

Ion Ratio Lower Upper

94 100

96 74.1 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

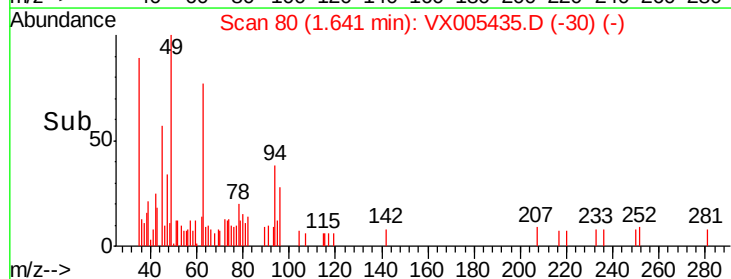
300

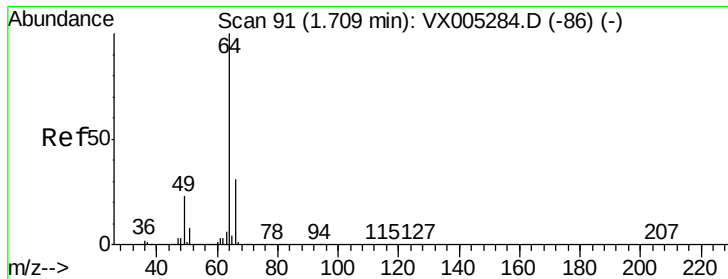
200

100

0

Time--> 1.60 1.65





#6

Chloroethane

Concen: 0.663 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX005435.D

Acq: 18 Oct 2018 17:30

Instrument :

MSVOA_X

ClientSampleId :

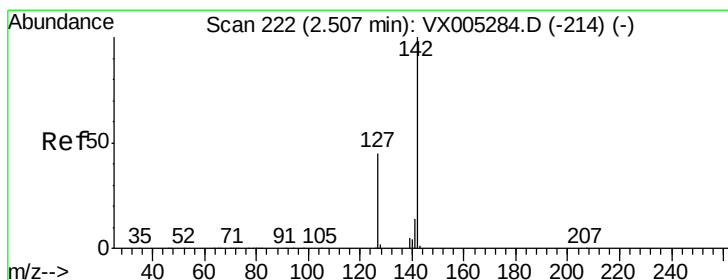
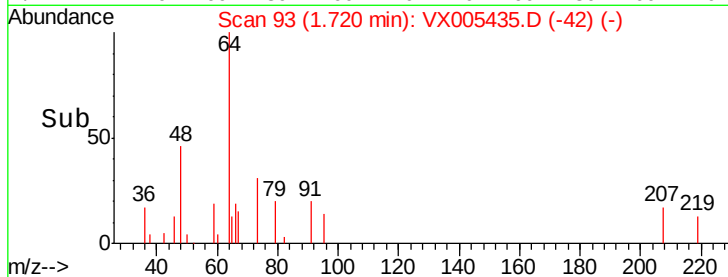
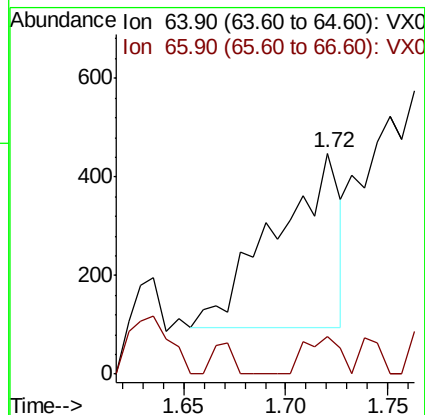
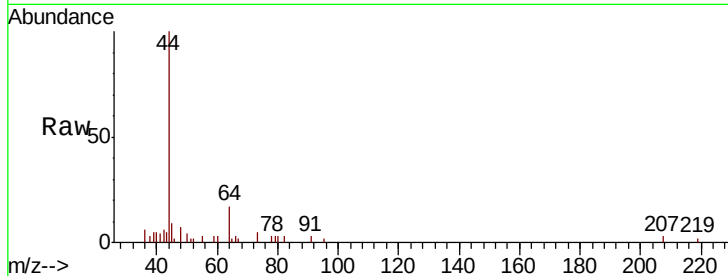
CB-1018-S-TCLP-GRID-50-2

Tot Ion: 64 Resp: 778

Ion Ratio Lower Upper

64 100

66 21.8 24.6 36.8#



#10

Methyl Iodide

Concen: 2.520 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX005435.D

Acq: 18 Oct 2018 17:30

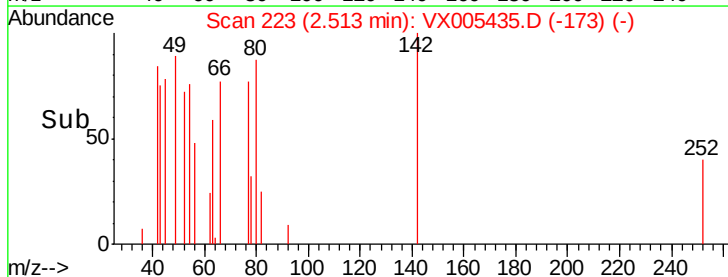
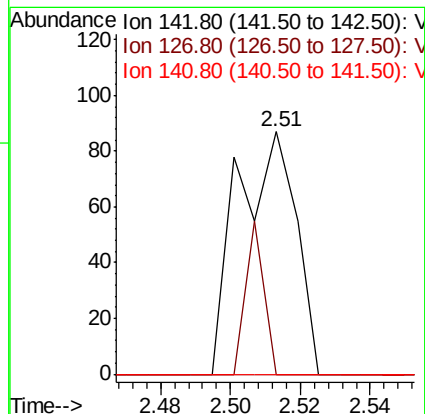
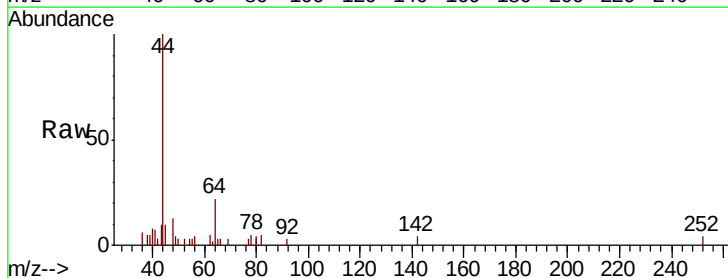
Tgt Ion: 142 Resp: 101

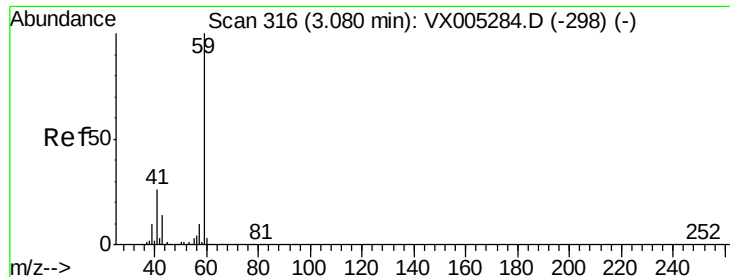
Ion Ratio Lower Upper

142 100

127 19.8 33.8 50.6#

141 0.0 11.4 17.0#



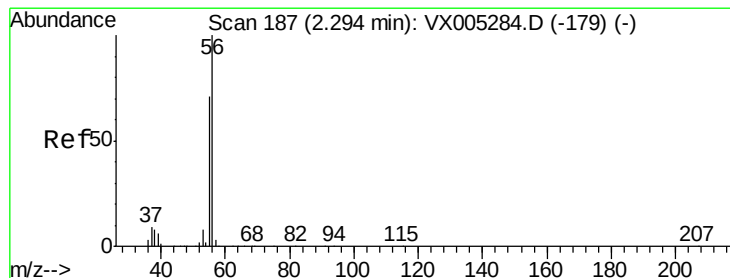
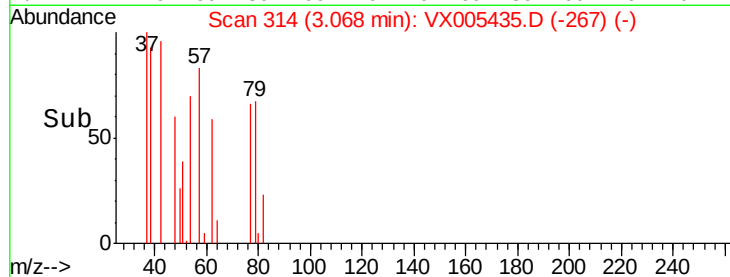
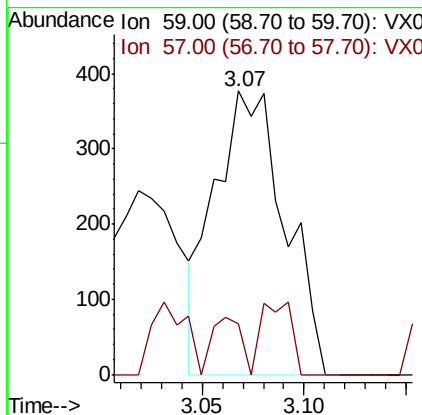
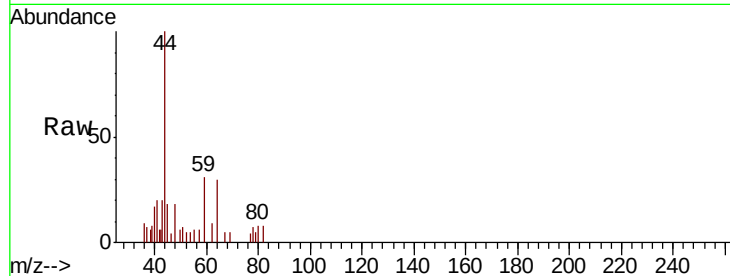


#11

Tert butyl alcohol
 Concen: 0.916 ug/l
 RT: 3.07 min Scan# 314
 Delta R.T. -0.01 min
 Lab File: VX005435.D
 Acq: 18 Oct 2018 17:30

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID-50-2

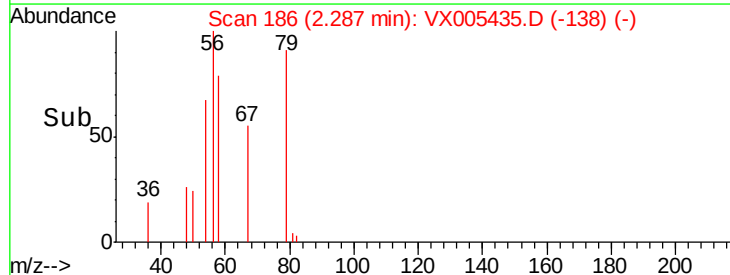
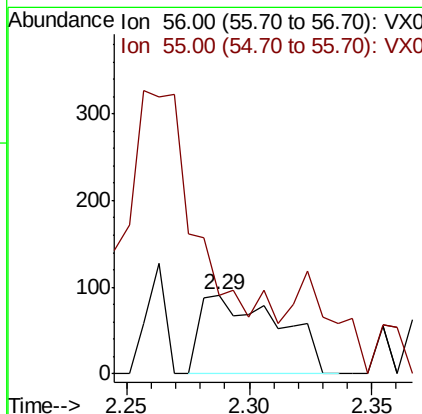
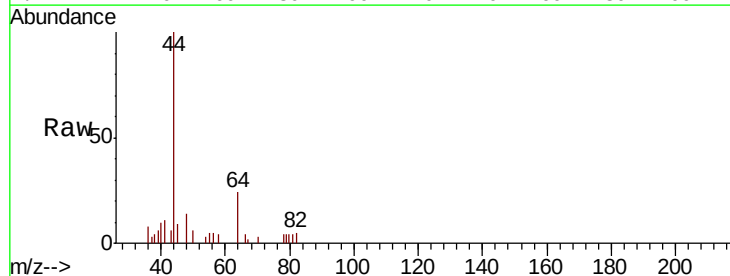
Tot Ion: 59 Resp: 906
 Ion Ratio Lower Upper
 59 100
 57 8.4 8.2 12.4

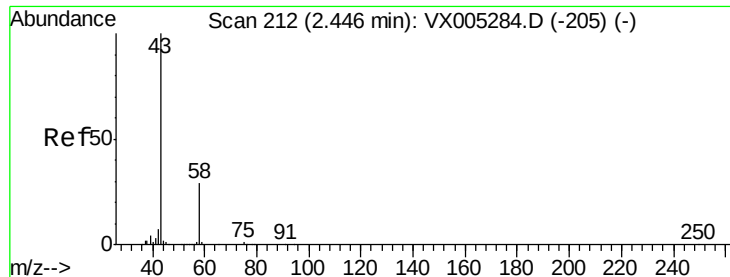


#13

Acrolein
 Concen: Below Cal
 RT: 2.29 min Scan# 186
 Delta R.T. -0.01 min
 Lab File: VX005435.D
 Acq: 18 Oct 2018 17:30

Tgt Ion: 56 Resp: 204
 Ion Ratio Lower Upper
 56 100
 55 0.0 54.7 82.1#

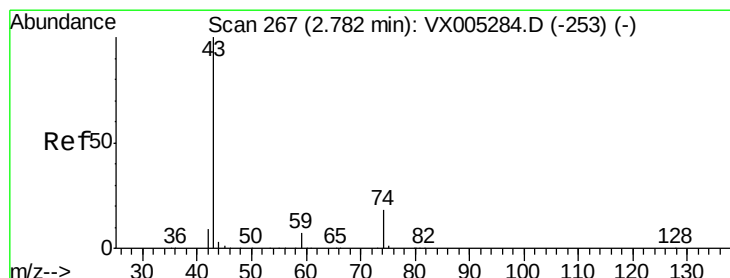
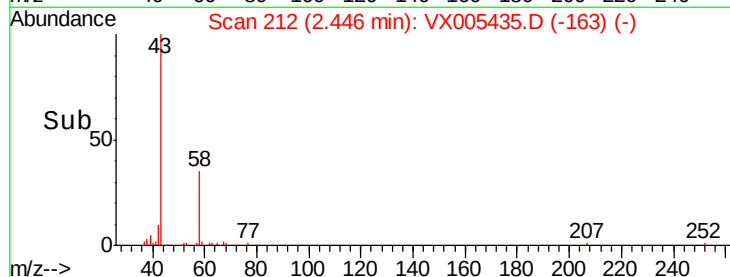
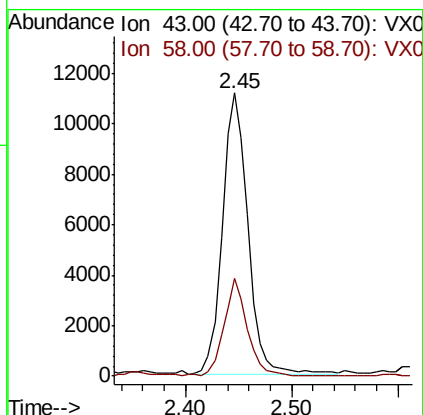
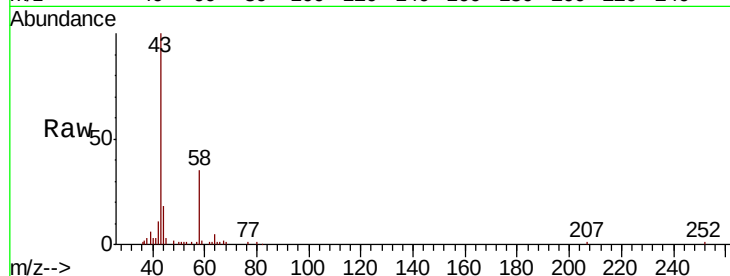




#16
Acetone
Concen: 9.098 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX005435.D
Acq: 18 Oct 2018 17:30

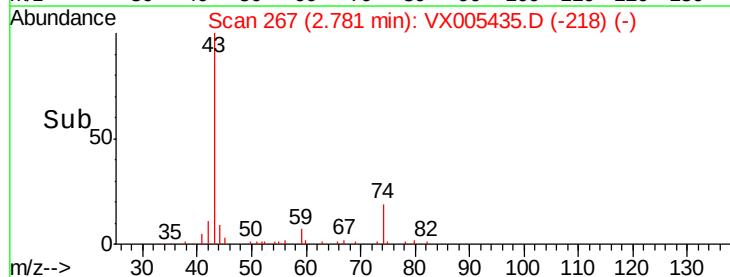
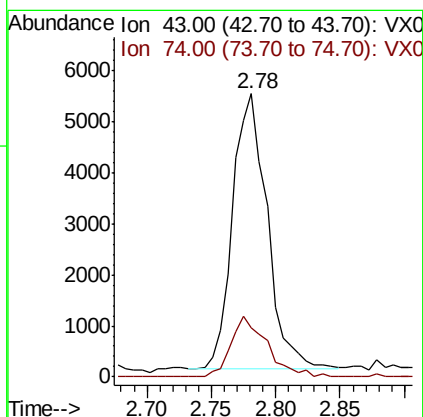
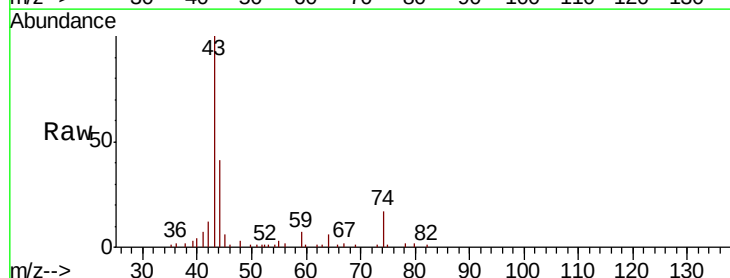
Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID-50-2

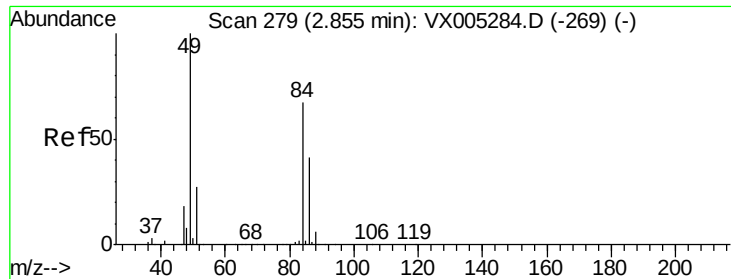
Tot Ion: 43 Resp: 18445
Ion Ratio Lower Upper
43 100
58 34.9 26.2 39.4



#18
Methyl Acetate
Concen: 1.744 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX005435.D
Acq: 18 Oct 2018 17:30

Tgt Ion: 43 Resp: 10060
Ion Ratio Lower Upper
43 100
74 23.0 19.4 29.2

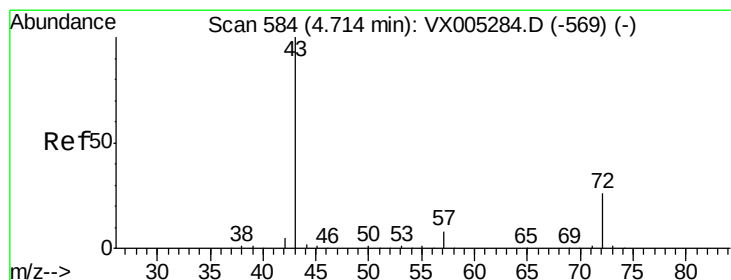
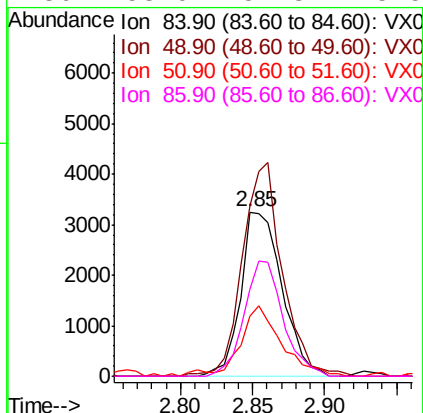
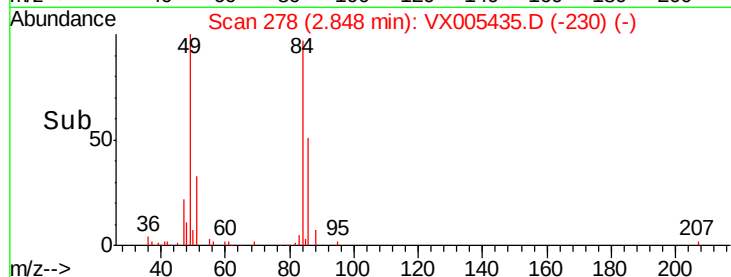
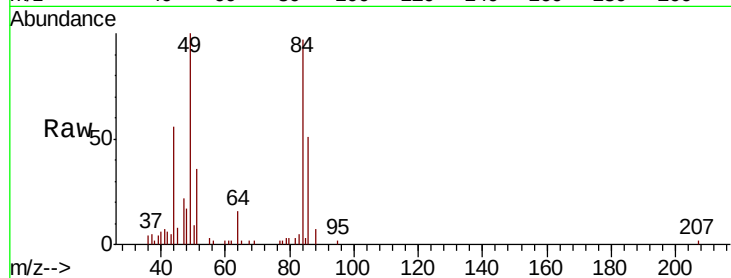




#20
Methylene Chloride
Concen: 0.900 ug/l
RT: 2.85 min Scan# 278
Delta R.T. -0.01 min
Lab File: VX005435.D
Acq: 18 Oct 2018 17:30

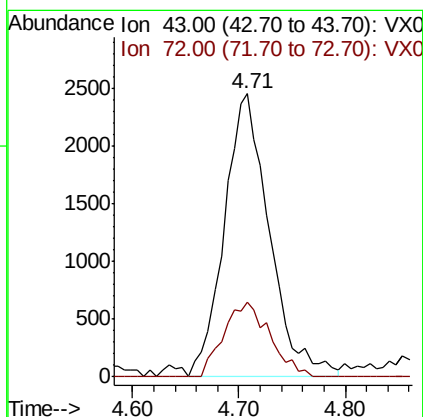
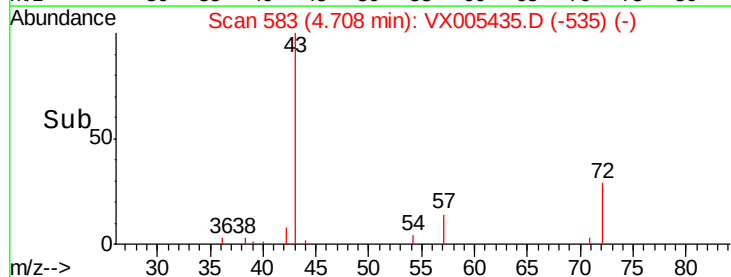
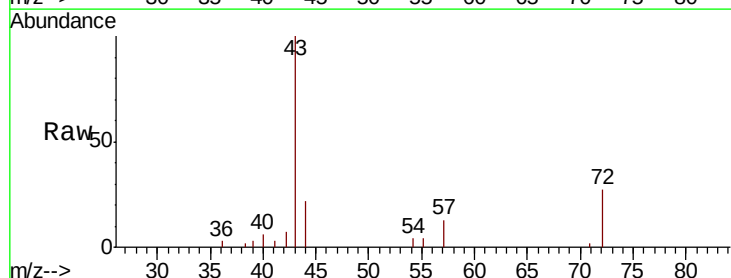
Instrument :
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ClientSampleId :
CB-1018-S-TCLP-GRID-50-2

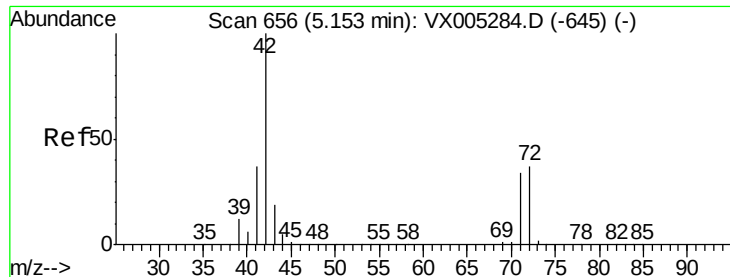
Tot Ion: 84 Resp: 6456
Ion Ratio Lower Upper
84 100
49 101.6 101.2 151.8
51 35.1 29.5 44.3
86 53.0 52.3 78.5



#25
2-Butanone
Concen: 2.453 ug/l
RT: 4.71 min Scan# 583
Delta R.T. -0.01 min
Lab File: VX005435.D
Acq: 18 Oct 2018 17:30

Tgt Ion: 43 Resp: 7277
Ion Ratio Lower Upper
43 100
72 26.6 22.0 33.0

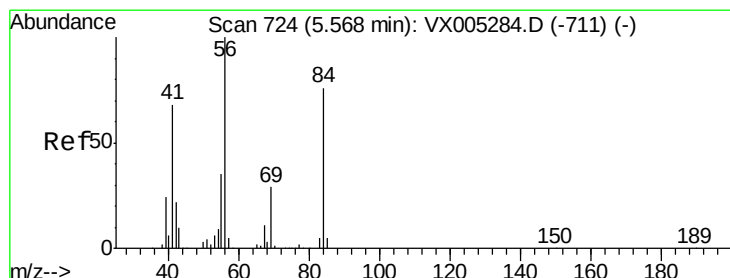
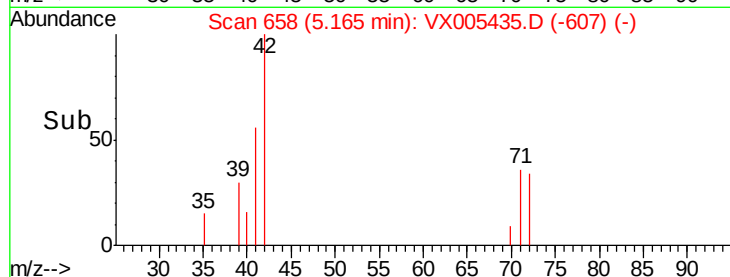
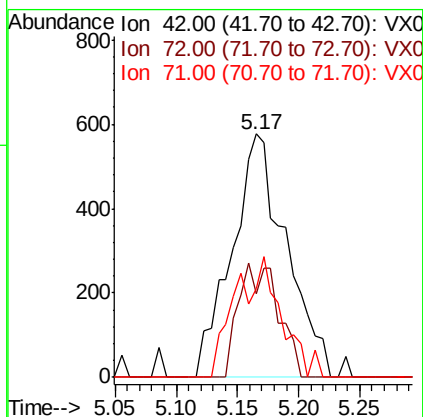
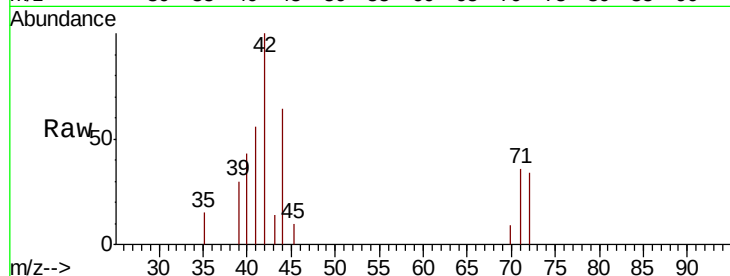




#29
Tetrahydrofuran
Concen: 0.943 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX005435.D
Acq: 18 Oct 2018 17:30

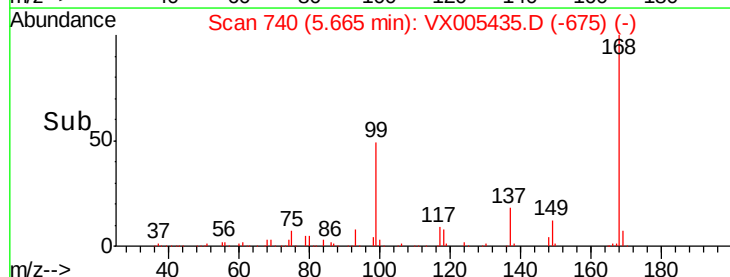
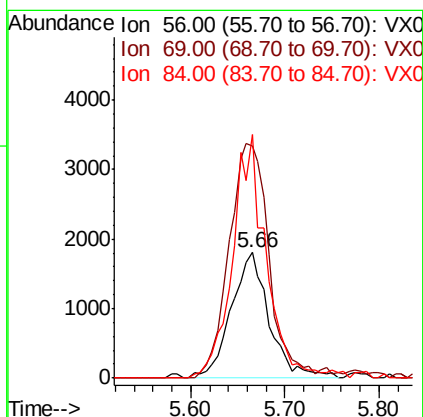
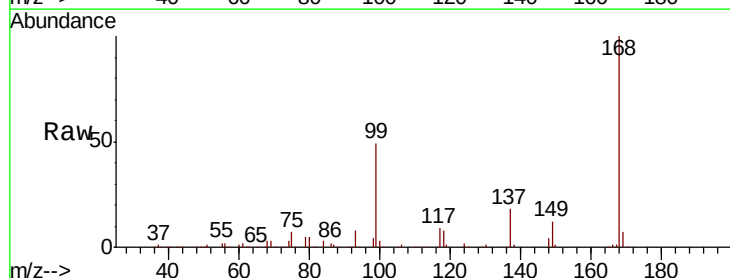
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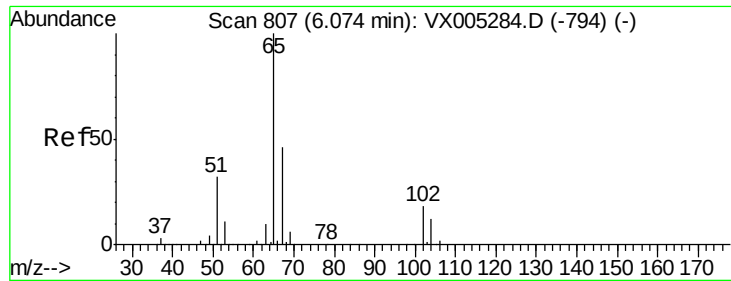
Tot Ion: 42 Resp: 1784
Ion Ratio Lower Upper
42 100
72 16.5 37.4 56.0#
71 17.3 34.5 51.7#



#31
Cyclohexane
Concen: 1.056 ug/l
RT: 5.66 min Scan# 740
Delta R.T. 0.10 min
Lab File: VX005435.D
Acq: 18 Oct 2018 17:30

Tgt Ion: 56 Resp: 5088
Ion Ratio Lower Upper
56 100
69 184.9 25.4 38.2#
84 194.3 71.4 107.2#

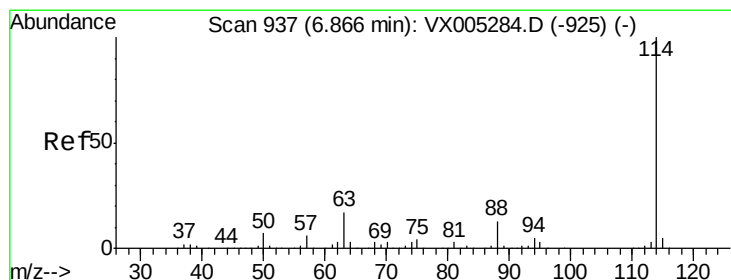
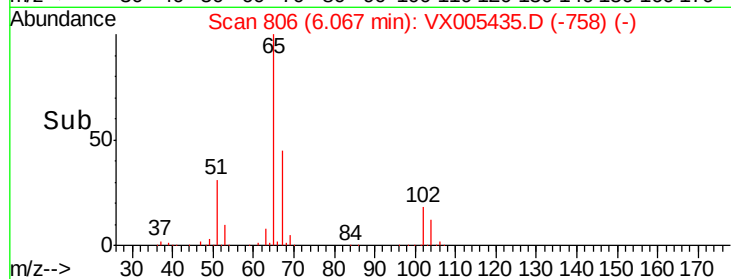
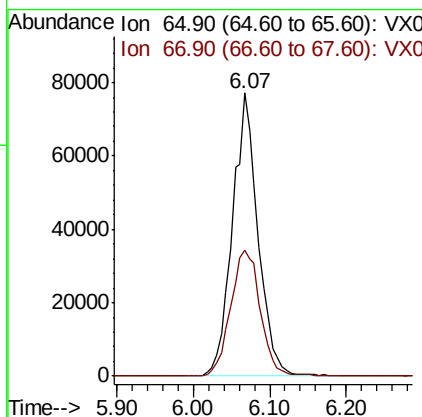
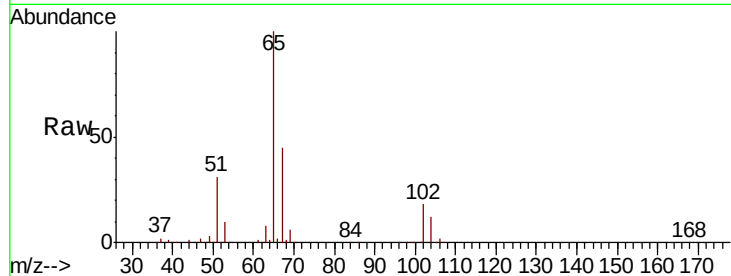




#33
 1,2-Dichloroethane-d4
 Concen: 50.811 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.01 min
 Lab File: VX005435.D
 Acq: 18 Oct 2018 17:30

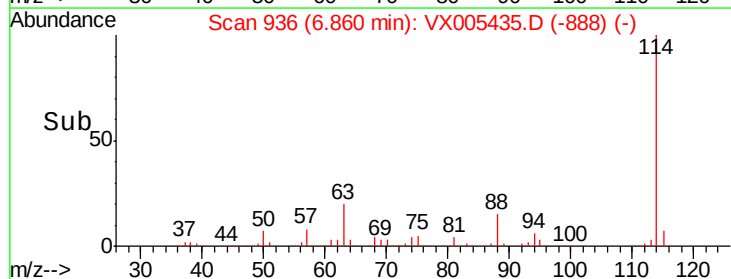
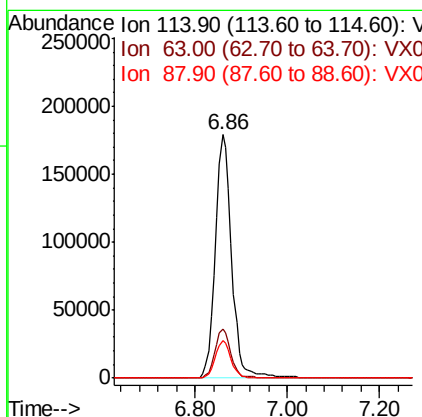
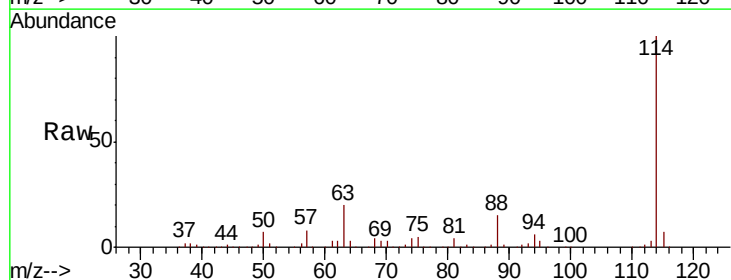
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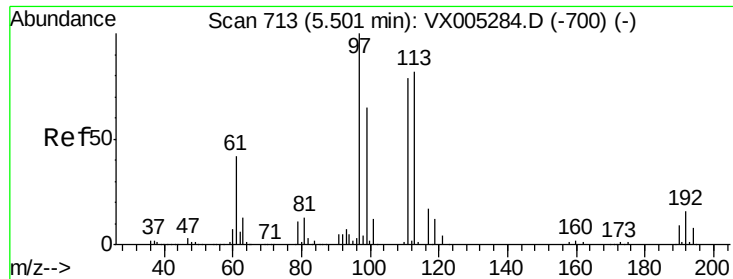
Tot Ion: 65 Resp: 178160
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VX005435.D
 Acq: 18 Oct 2018 17:30

Tgt Ion: 114 Resp: 440670
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 39.0
 88 15.3 0.0 30.4

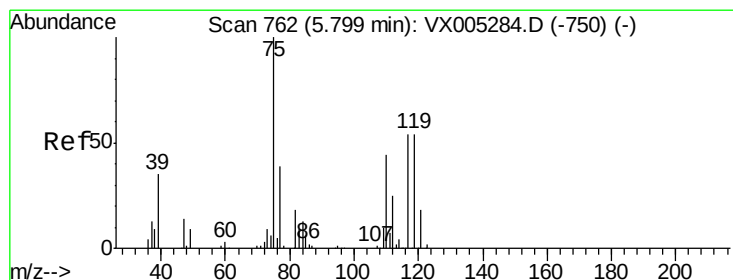
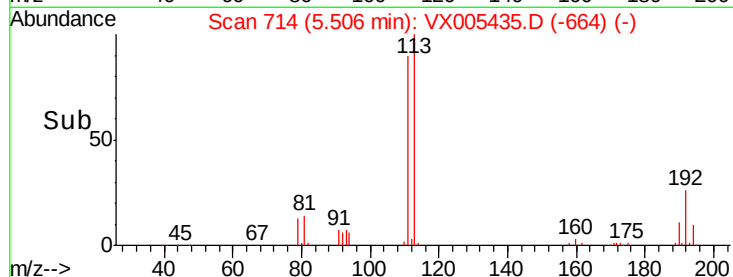
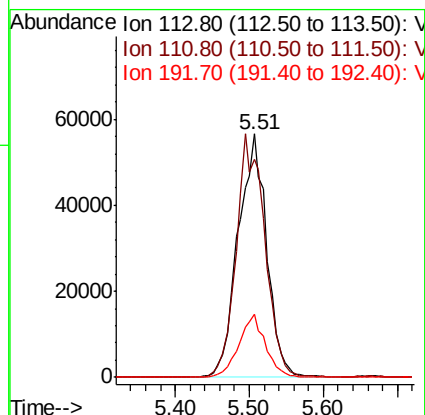
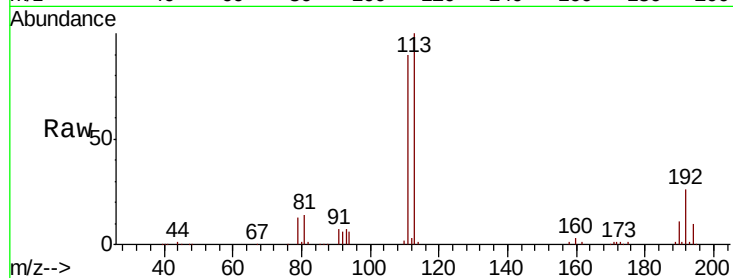




#35
 Dibromofluoromethane
 Concen: 52.330 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005435.D
 Acq: 18 Oct 2018 17:30

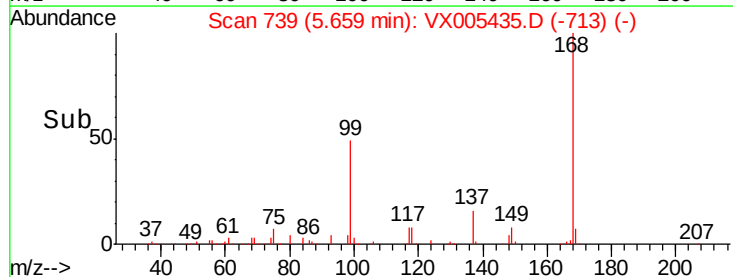
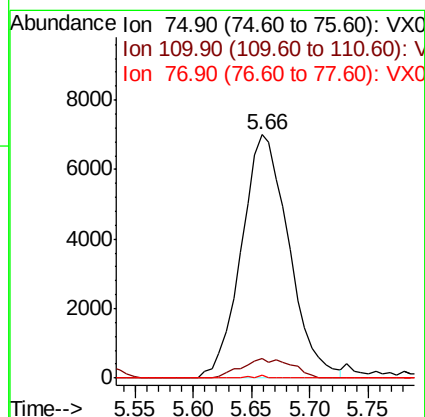
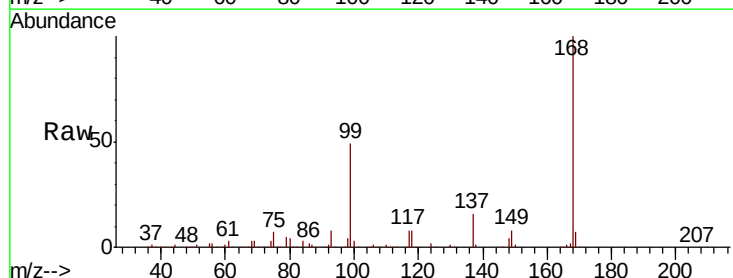
Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID-50-2

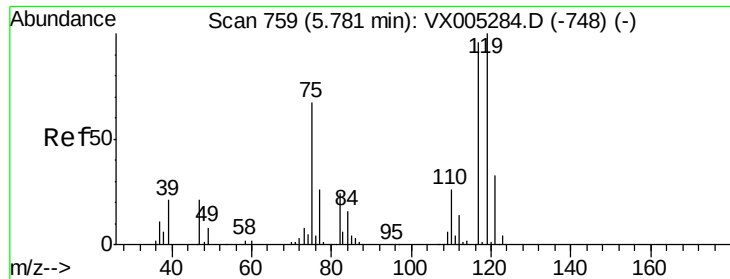
Tot Ion:113 Resp: 152734
 Ion Ratio Lower Upper
 113 100
 111 99.8 82.4 123.6
 192 23.9 19.4 29.2



#36
 1,1-Dichloropropene
 Concen: 4.638 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX005435.D
 Acq: 18 Oct 2018 17:30

Tgt Ion: 75 Resp: 19796
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.0 54.0#
 77 0.3 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 6.267 ug/l

RT: 5.66 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005435.D

Acq: 18 Oct 2018 17:30

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID-50-2

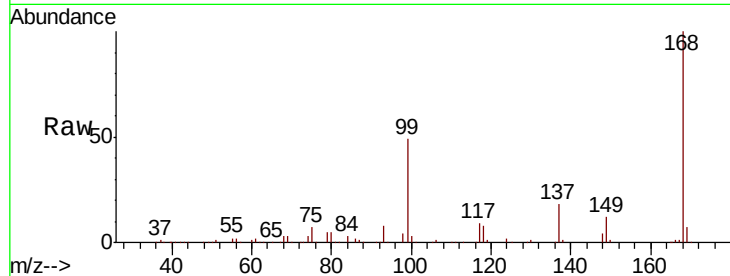
Tot Ion:117 Resp: 26873

Ion Ratio Lower Upper

117 100

119 5.2 78.8 118.2#

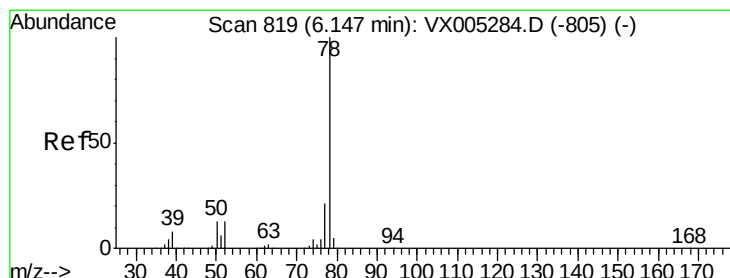
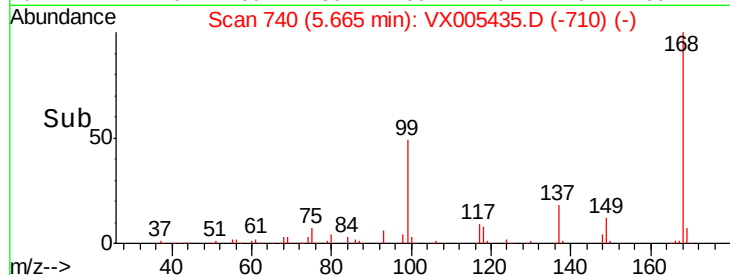
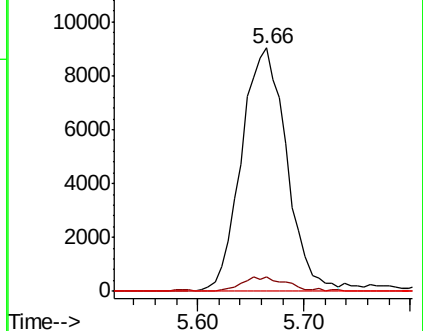
121 0.0 24.9 37.3#



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



#40

Benzene

Concen: 0.215 ug/l

RT: 6.14 min Scan# 818

Delta R.T. -0.01 min

Lab File: VX005435.D

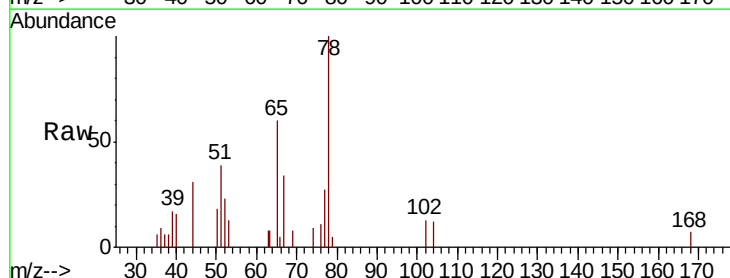
Acq: 18 Oct 2018 17:30

Tgt Ion: 78 Resp: 2754

Ion Ratio Lower Upper

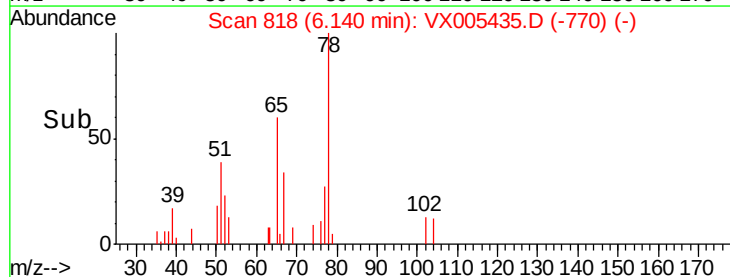
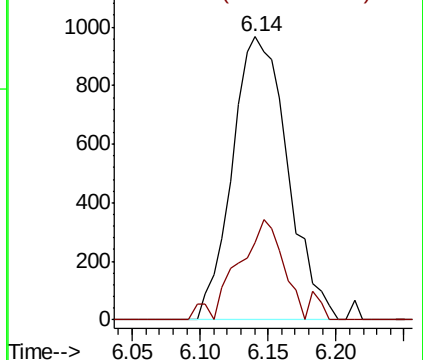
78 100

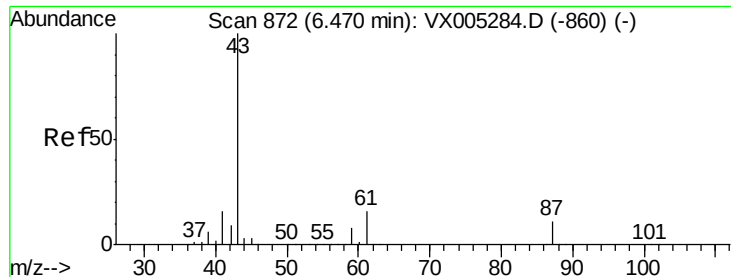
77 27.2 19.0 28.4



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



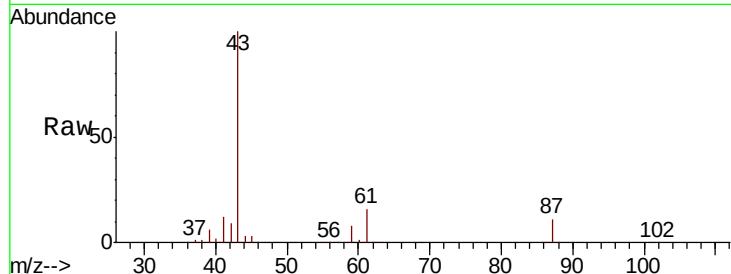


#43

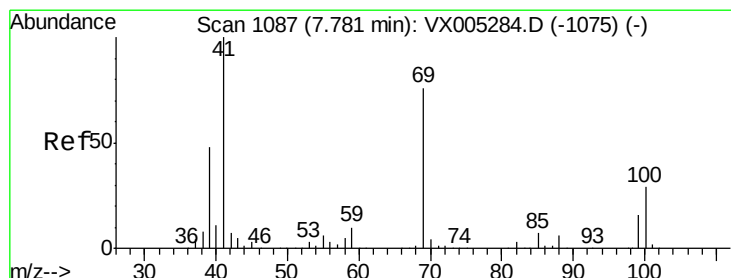
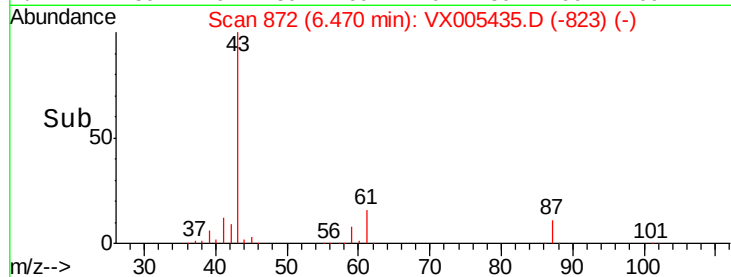
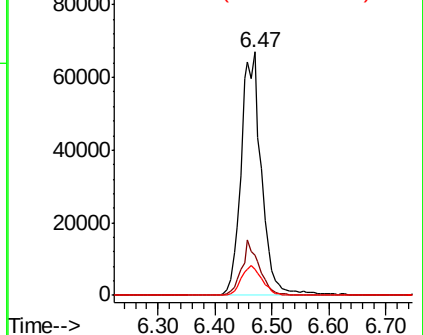
Isopropyl Acetate
 Concen: 23.020 ug/l
 RT: 6.47 min Scan# 872
 Delta R.T. -0.00 min
 Lab File: VX005435.D
 Acq: 18 Oct 2018 17:30

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID-50-2

Tot Ion	43	Resp	168306
Ion Ratio	100	Lower	Upper
61	19.5	17.0	25.4
87	12.5	11.4	17.2



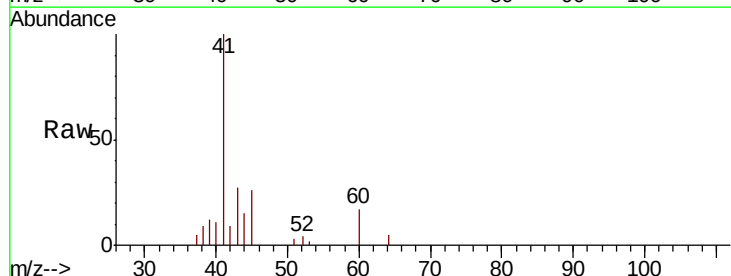
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



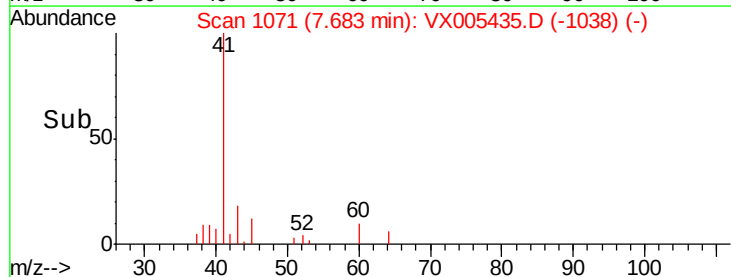
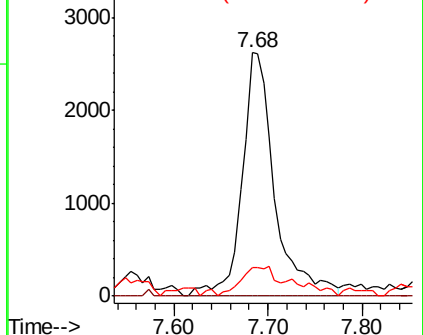
#48

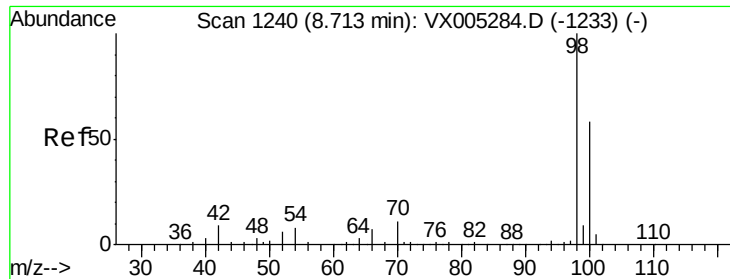
Methyl methacrylate
 Concen: 1.678 ug/l
 RT: 7.68 min Scan# 1071
 Delta R.T. -0.10 min
 Lab File: VX005435.D
 Acq: 18 Oct 2018 17:30

Tgt Ion	41	Resp	6363
Ion Ratio	100	Lower	Upper
69	0.0	70.2	105.4#
39	12.4	42.7	64.1#



Abundance Ion 41.00 (40.70 to 41.70): VX0
 Ion 69.00 (68.70 to 69.70): VX0
 Ion 39.00 (38.70 to 39.70): VX0





#50

Toluene-d8

Concen: 51.724 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005435.D

Acq: 18 Oct 2018 17:30

Instrument :

MSVOA_X

ClientSampleId :

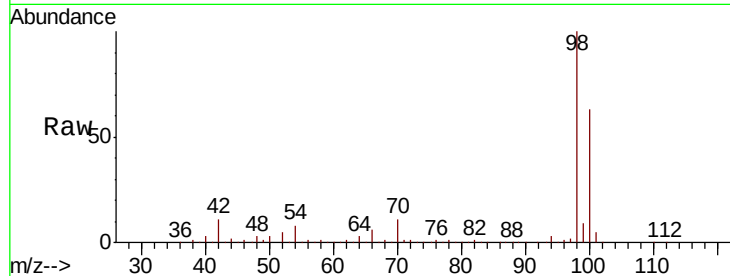
CB-1018-S-TCLP-GRID-50-2

Tot Ion: 98 Resp: 518273

Ion Ratio Lower Upper

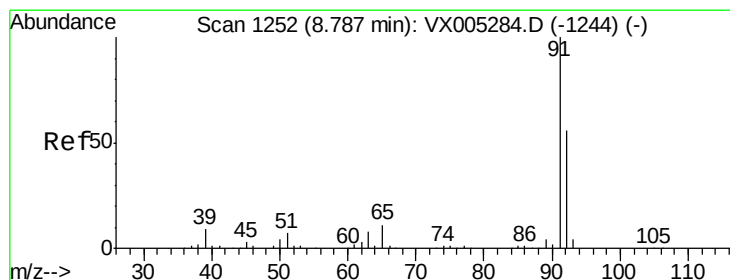
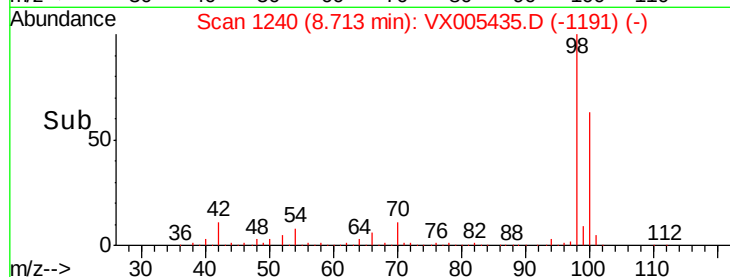
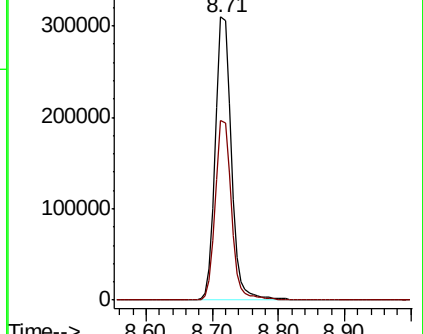
98 100

100 63.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#52

Toluene

Concen: 0.239 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX005435.D

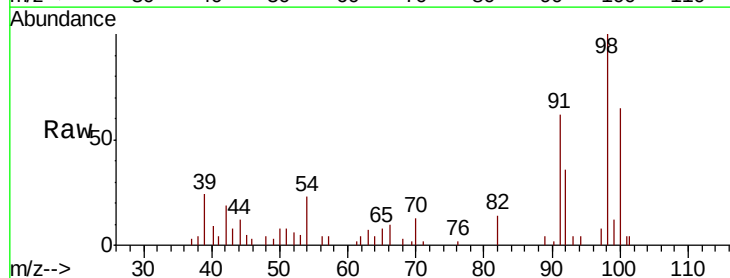
Acq: 18 Oct 2018 17:30

Tgt Ion: 92 Resp: 1675

Ion Ratio Lower Upper

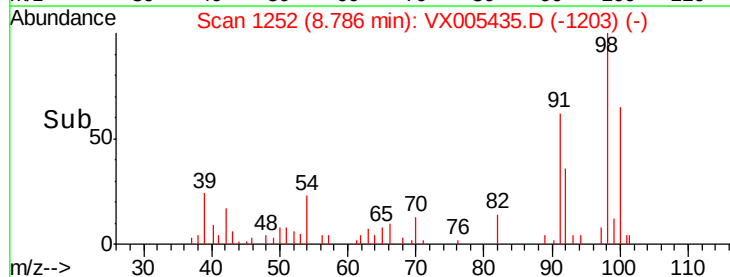
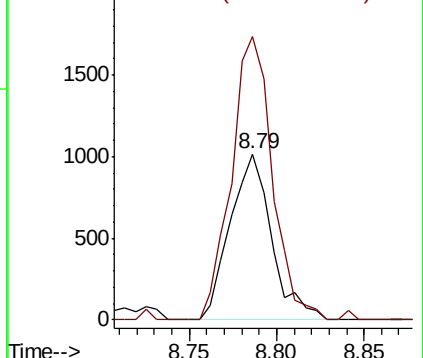
92 100

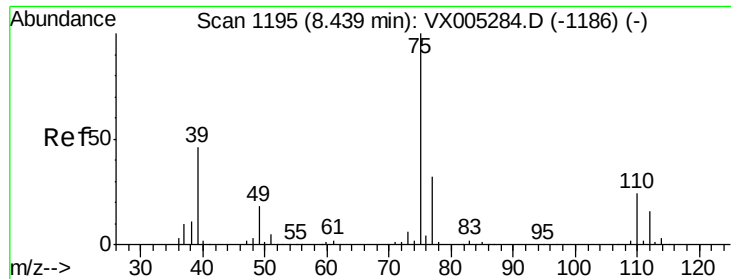
91 168.9 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#54

cis-1,3-Dichloropropene

Concen: 0.235 ug/l

RT: 8.62 min Scan# 1225

Delta R.T. 0.18 min

Lab File: VX005435.D

Acq: 18 Oct 2018 17:30

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID-50-2

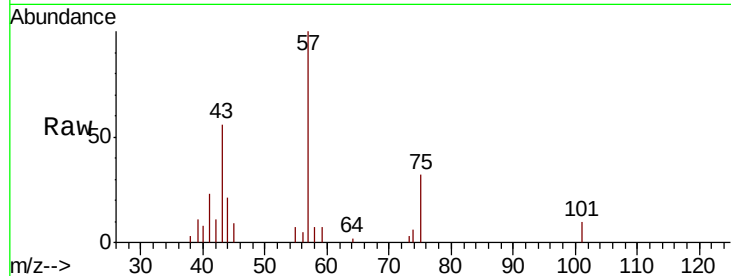
Tot Ion: 75 Resp: 1055

Ion Ratio Lower Upper

75 100

77 0.0 26.2 39.2#

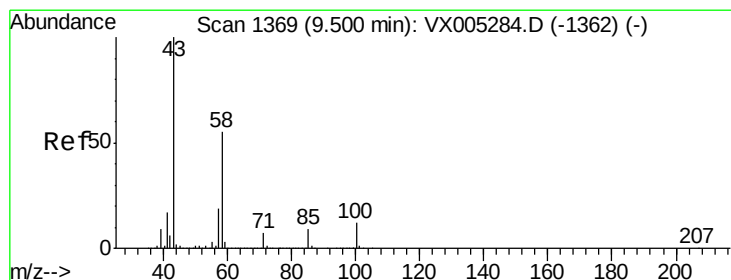
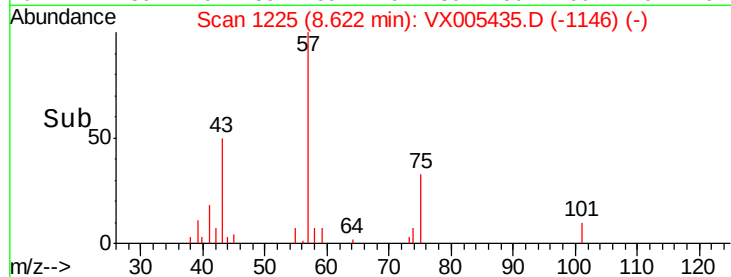
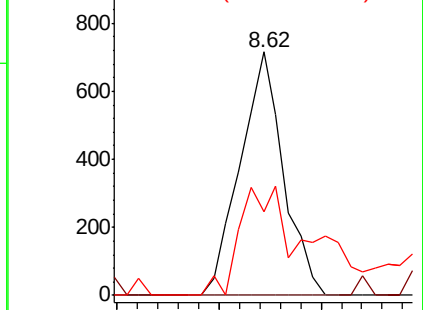
39 34.5 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#59

2-Hexanone

Concen: 0.213 ug/l

RT: 9.50 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VX005435.D

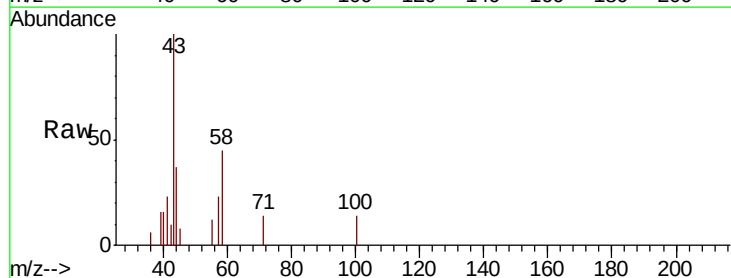
Acq: 18 Oct 2018 17:30

Tgt Ion: 43 Resp: 869

Ion Ratio Lower Upper

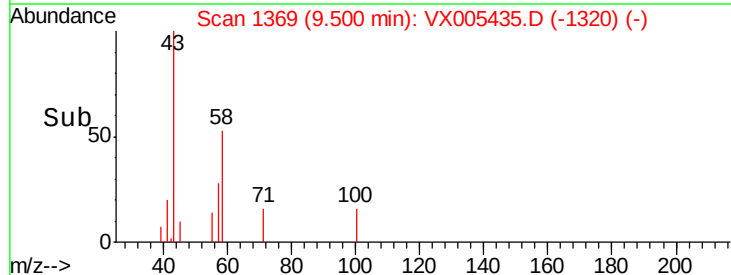
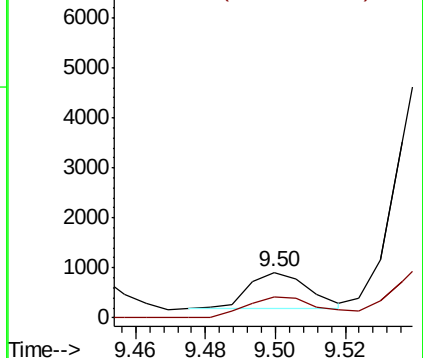
43 100

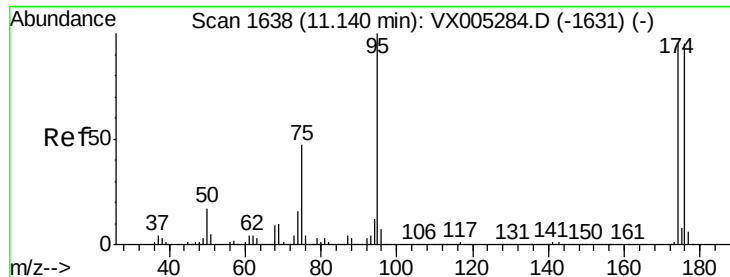
58 73.6 29.0 87.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#62

4-Bromofluorobenzene

Concen: 45.806 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005435.D

Acq: 18 Oct 2018 17:30

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID-50-2

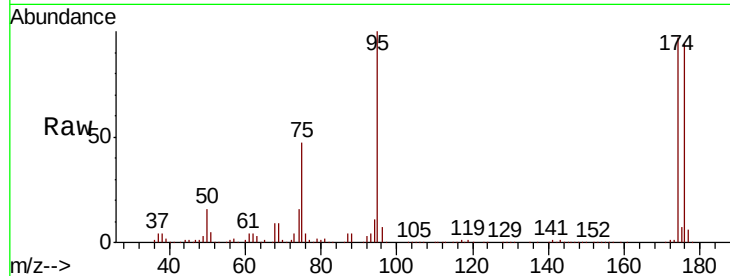
Tot Ion: 95 Resp: 172420

Ion Ratio Lower Upper

95 100

174 96.4 0.0 185.2

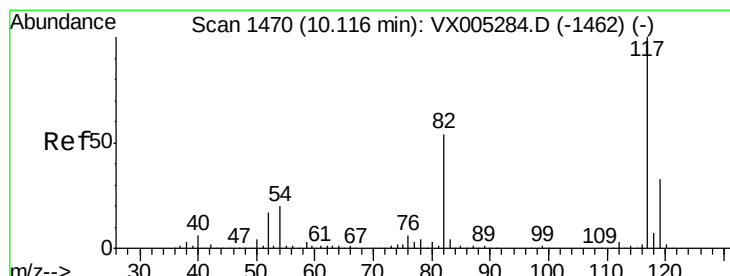
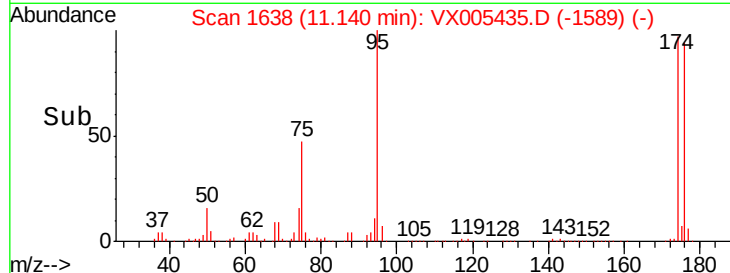
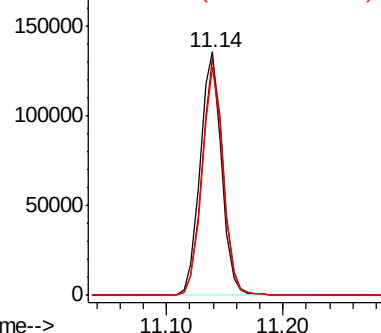
176 92.6 0.0 178.6



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: VX005435.D

Acq: 18 Oct 2018 17:30

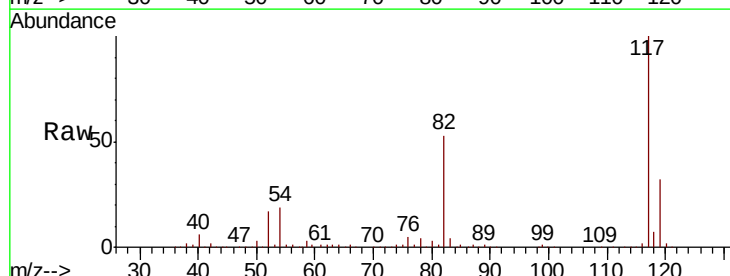
Tgt Ion: 117 Resp: 390607

Ion Ratio Lower Upper

117 100

82 53.0 47.8 71.6

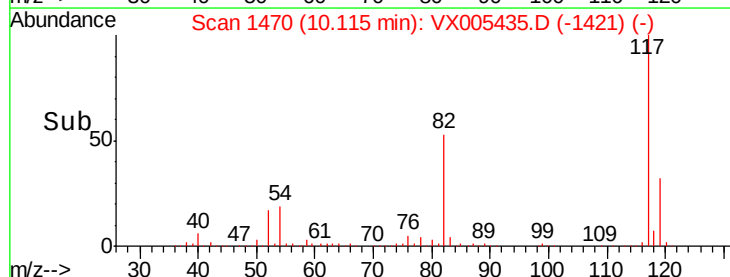
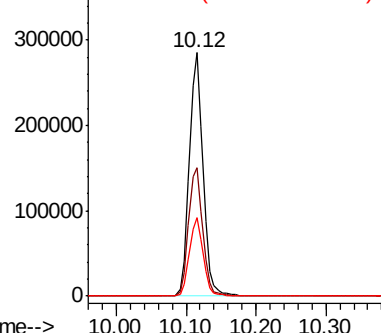
119 32.4 29.3 43.9

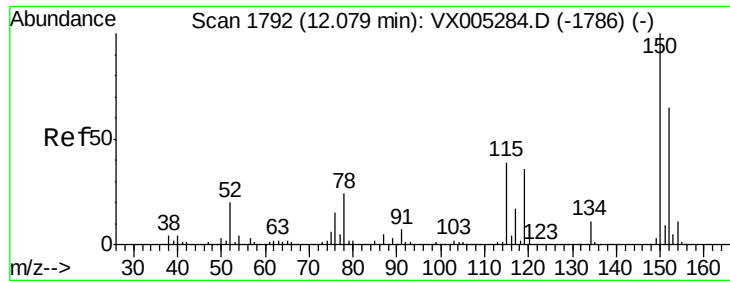


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



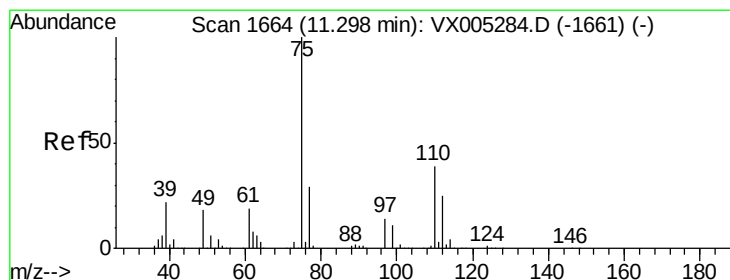
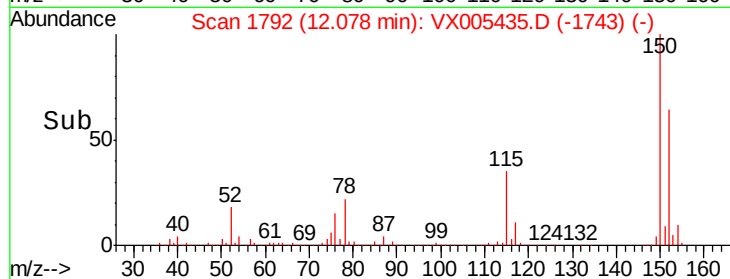
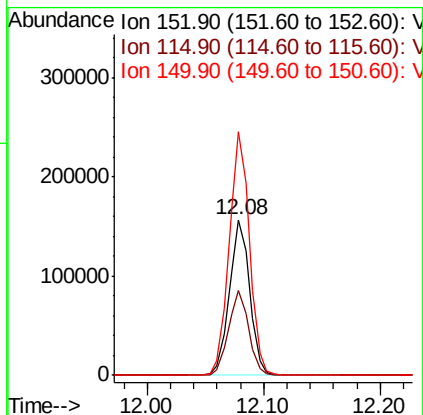
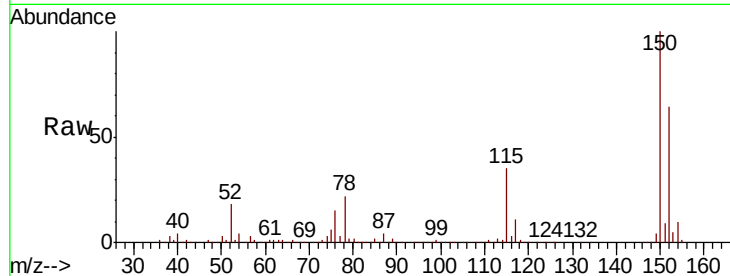


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX005435.D
Acq: 18 Oct 2018 17:30

Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID-50-2

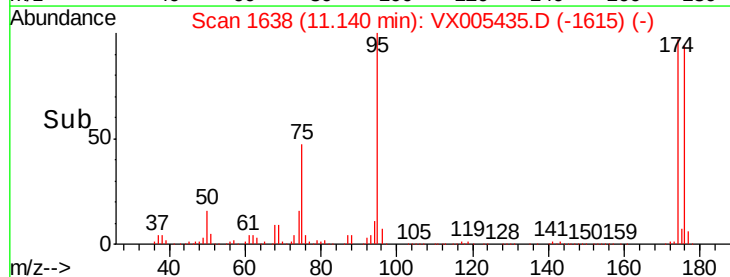
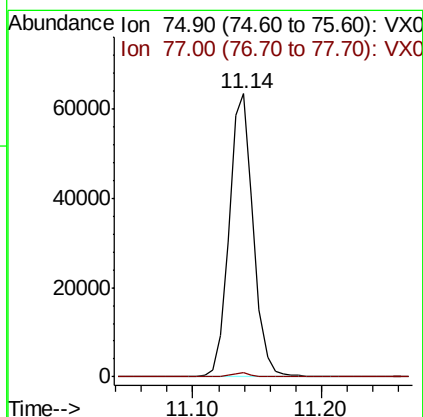
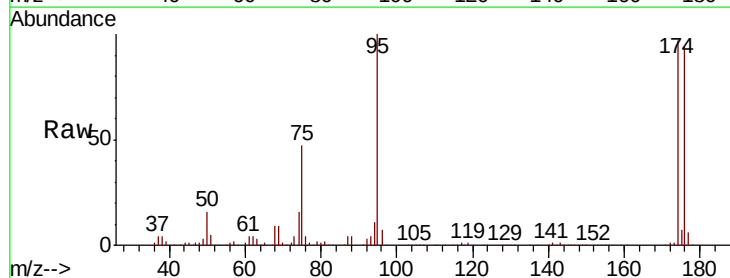
Tot Ion:152 Resp: 190015
Ion Ratio Lower Upper
152 100
115 53.8 39.0 117.0
150 155.7 0.0 351.0

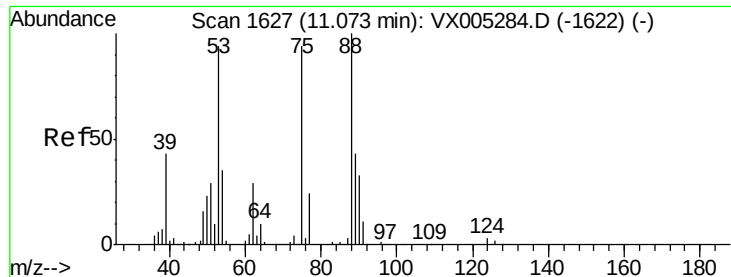


#76

1,2,3-Trichloropropane
Concen: 22.441 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.16 min
Lab File: VX005435.D
Acq: 18 Oct 2018 17:30

Tgt Ion: 75 Resp: 82713
Ion Ratio Lower Upper
75 100
77 1.3 20.2 60.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 68.187 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005435.D

Acq: 18 Oct 2018 17:30

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID-50-2

Tot Ion: 75 Resp: 82713

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#

