

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\
 Data File : VX005003.D
 Acq On : 04 Oct 2018 07:21
 Operator : JC/MD
 Sample : J5211-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID41-1

Quant Time: Oct 04 08:50:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	279495	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	415451	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	405759	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	226723	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	191458	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	
35) Dibromofluoromethane	5.51	113	172200	48.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.82%	
50) Toluene-d8	8.71	98	592429	50.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.22%	
62) 4-Bromofluorobenzene	11.14	95	215754	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	

Target Compounds

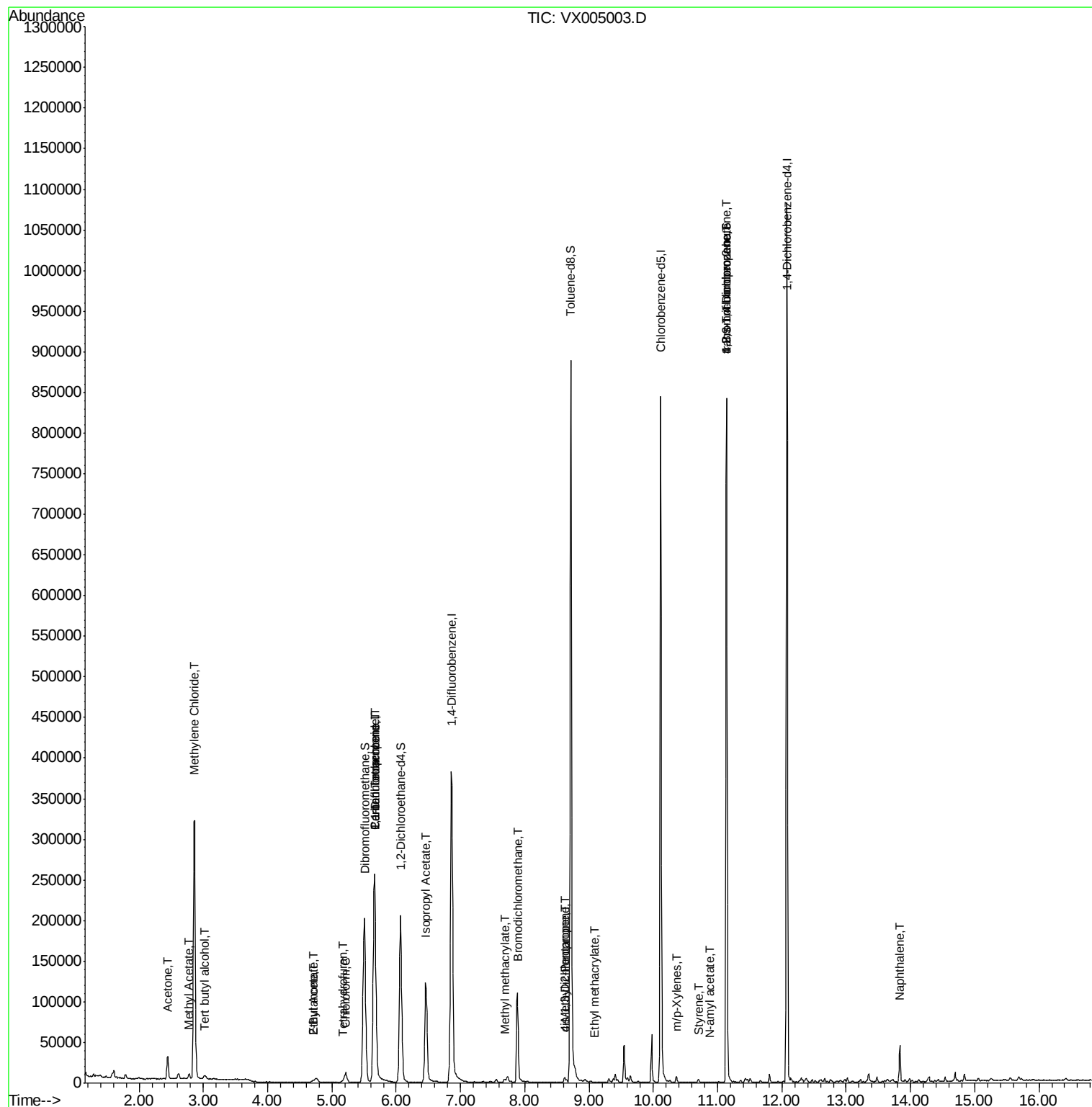
						Qvalue
6) Chloroethane	1.71	64	331	Below Cal	#	45
11) Tert butyl alcohol	3.02	59	3607	3.231	ug/l #	76
16) Acetone	2.44	43	30093	12.910	ug/l	98
18) Methyl Acetate	2.78	43	7280	1.233	ug/l	94
20) Methylene Chloride	2.85	84	152727	44.980	ug/l	89
25) 2-Butanone	4.71	43	5072	1.476	ug/l	92
29) Tetrahydrofuran	5.17	42	1826	0.855	ug/l #	75
30) Chloroform	5.21	83	12535	1.998	ug/l	91
36) 1,1-Dichloropropene	5.66	75	17391	3.620	ug/l #	46
37) Ethyl Acetate	4.71	43	5072	0.795	ug/l #	70
38) Carbon Tetrachloride	5.66	117	23854	4.724	ug/l #	18
43) Isopropyl Acetate	6.46	43	164889	17.915	ug/l	94
47) Bromodichloromethane	7.90	83	2167	0.499	ug/l	98
48) Methyl methacrylate	7.69	41	5740	1.374	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	2431	0.419	ug/l #	37
54) cis-1,3-Dichloropropene	8.62	75	1057	0.206	ug/l #	65
56) Ethyl methacrylate	9.10	69	75	2.874	ug/l #	1
68) m/p-Xylenes	10.36	106	1745	0.270	ug/l	90
70) Styrene	10.71	104	554	2.188	ug/l #	87
74) N-amyl acetate	10.88	43	82	1.758	ug/l #	18
76) 1,2,3-Trichloropropane	11.14	75	105041	20.670	ug/l #	35
80) 1,3,5-Trimethylbenzene	11.51	105	1754	Below Cal		94
81) trans-1,4-Dichloro-2-buten	11.14	75	105041	56.123	ug/l #	10
95) Naphthalene	13.83	128	27876	2.176	ug/l	99

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

Instrument :

MSVOA_X

ClientSampleId :

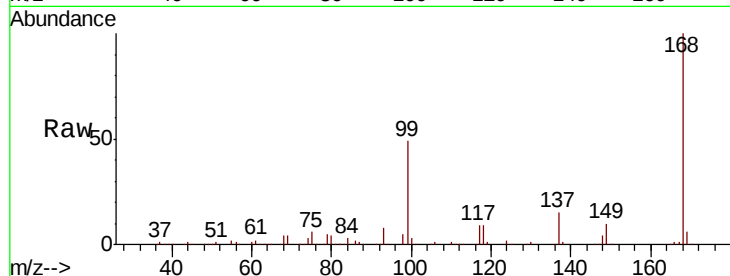
CB-1018-S-TCLP-GRID41-1

Tot Ion:168 Resp: 279495

Ion Ratio Lower Upper

168 100

99 48.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

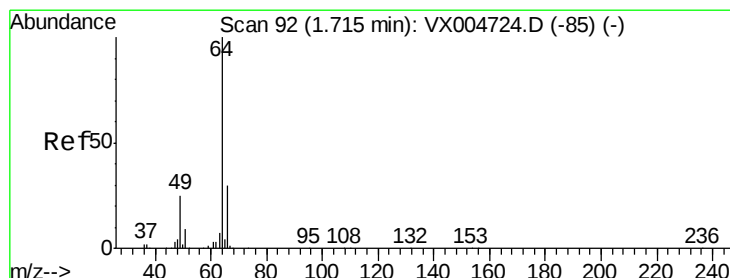
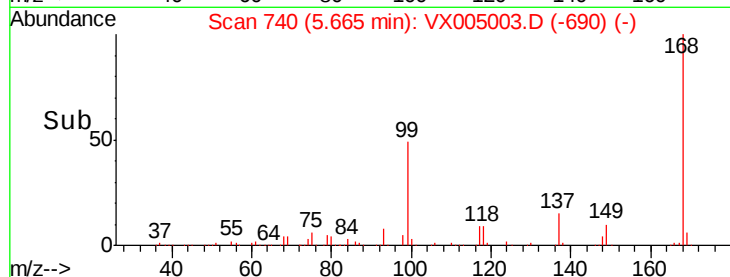
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX005003.D

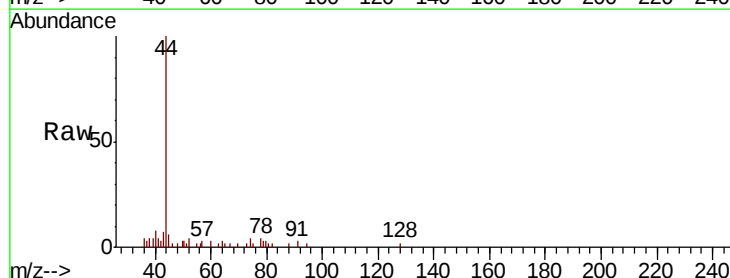
Acq: 04 Oct 2018 07:21

Tgt Ion: 64 Resp: 331

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

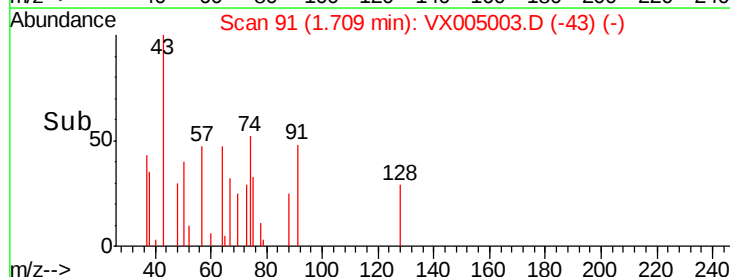
1.71

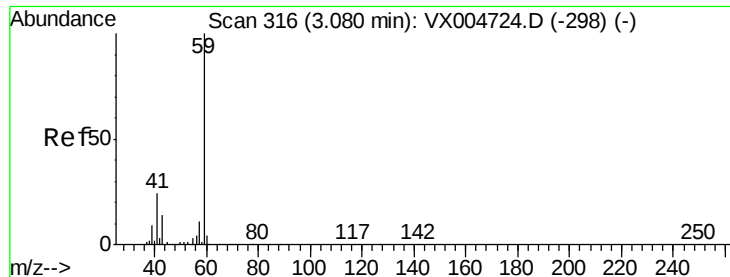
100

50

0

Time--> 1.65 1.70 1.75

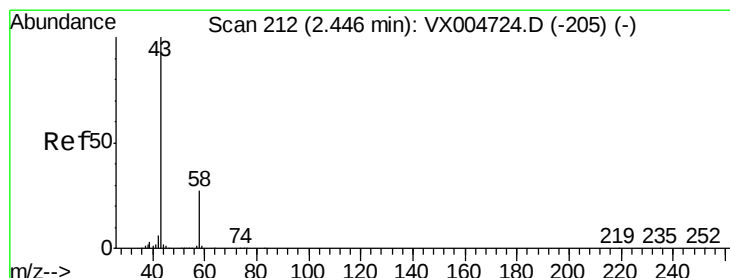
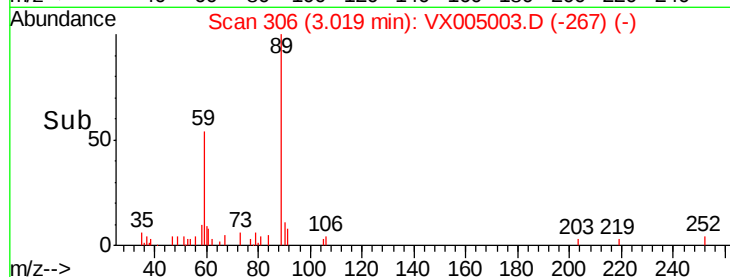
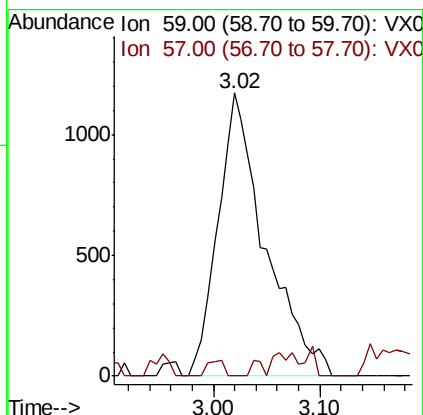
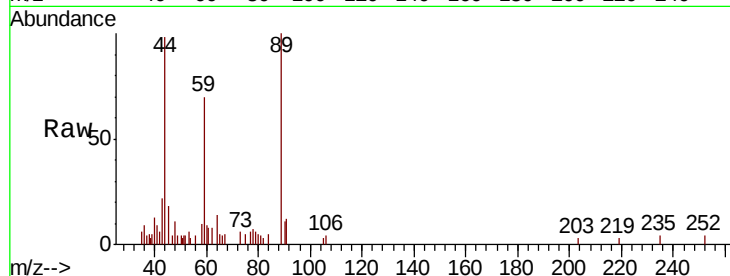




#11
Tert butyl alcohol
Concen: 3.231 ug/l
RT: 3.02 min Scan# 306
Delta R.T. -0.06 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

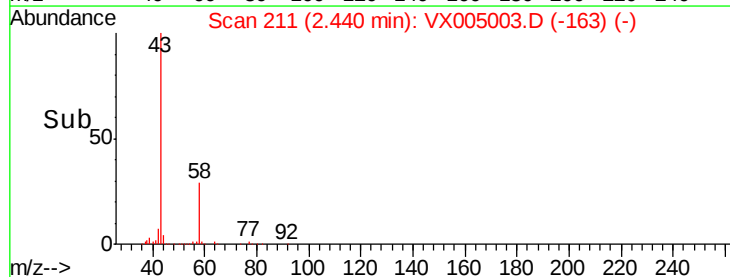
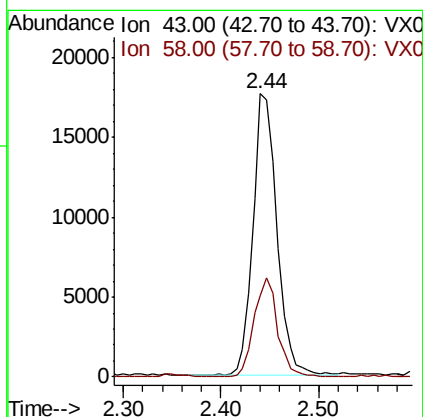
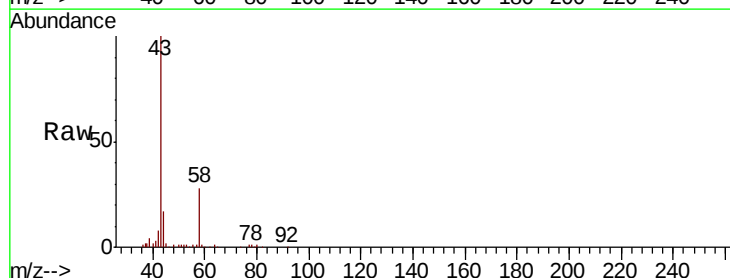
Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID41-1

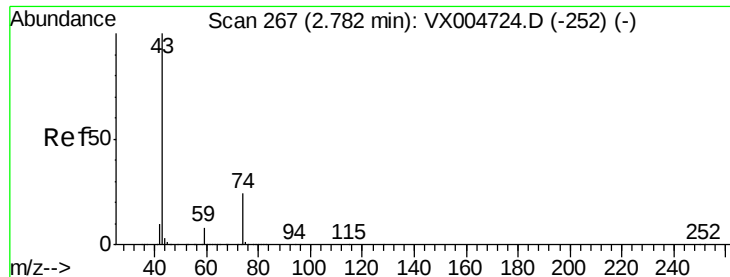
Tot Ion: 59 Resp: 3607
Ion Ratio Lower Upper
59 100
57 1.8 8.6 12.8#



#16
Acetone
Concen: 12.910 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Tgt Ion: 43 Resp: 30093
Ion Ratio Lower Upper
43 100
58 28.3 21.8 32.6

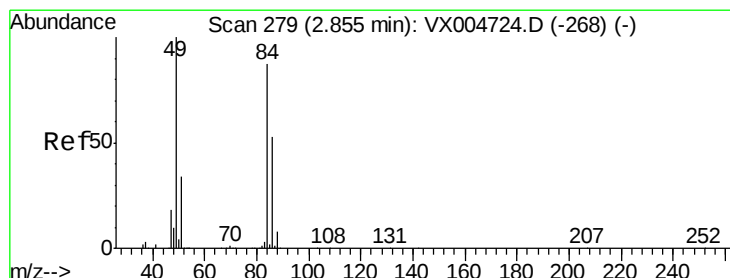
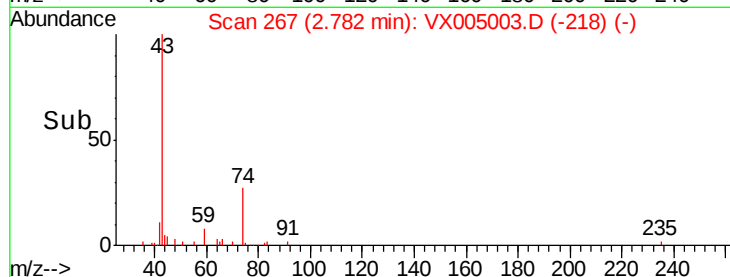
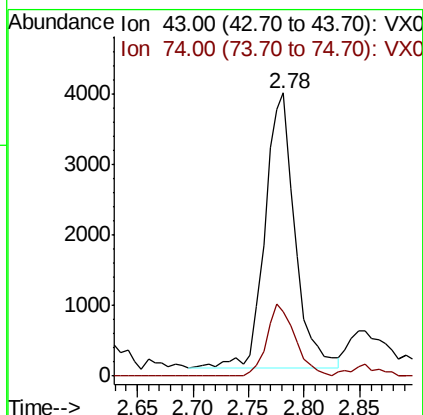
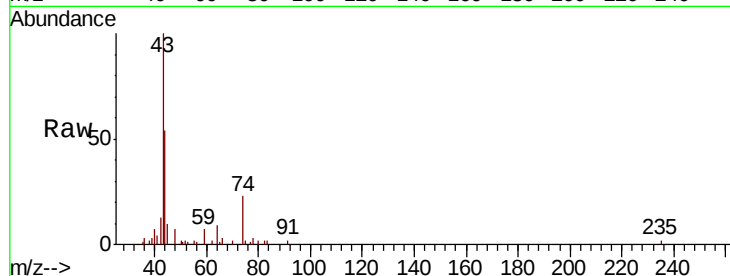




#18
Methvl Acetate
Concen: 1.233 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

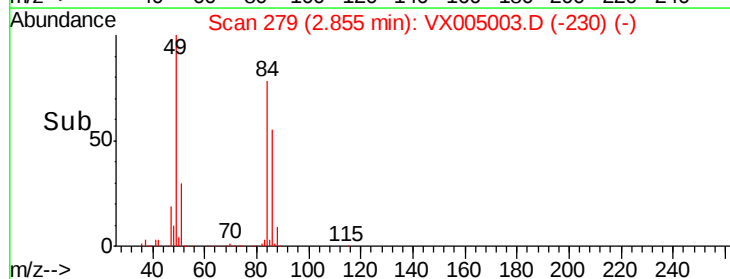
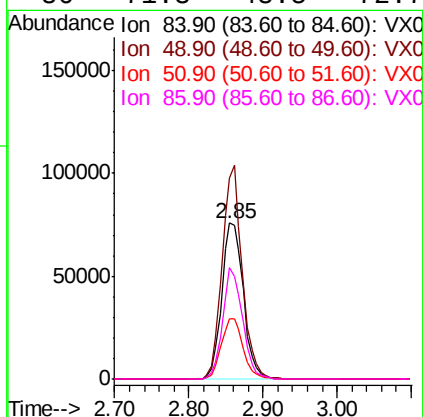
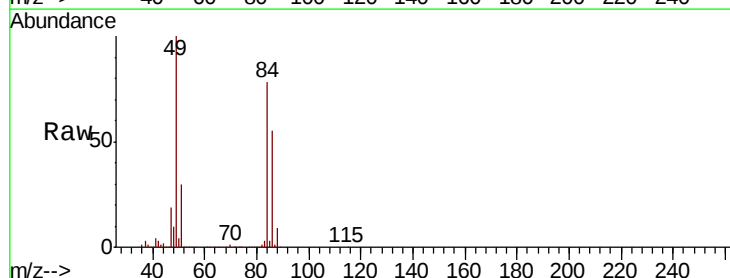
Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID41-1

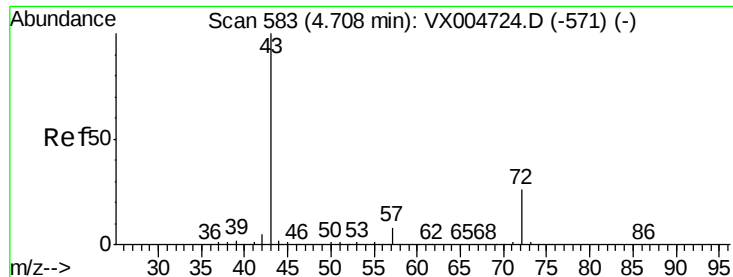
Tot Ion: 43 Resp: 7280
Ion Ratio Lower Upper
43 100
74 25.0 17.8 26.8



#20
Methylene Chloride
Concen: 44.980 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Tgt Ion: 84 Resp: 152727
Ion Ratio Lower Upper
84 100
49 128.7 92.3 138.5
51 38.8 31.8 47.6
86 71.3 48.5 72.7

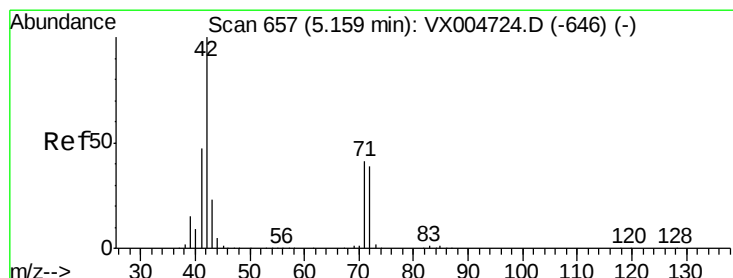
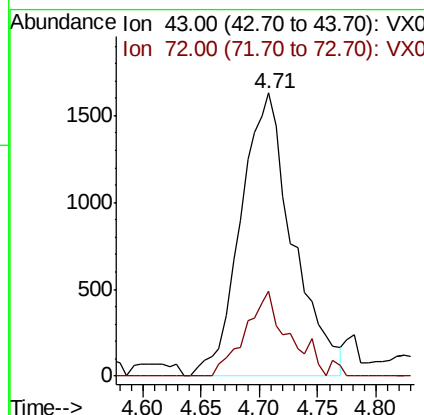
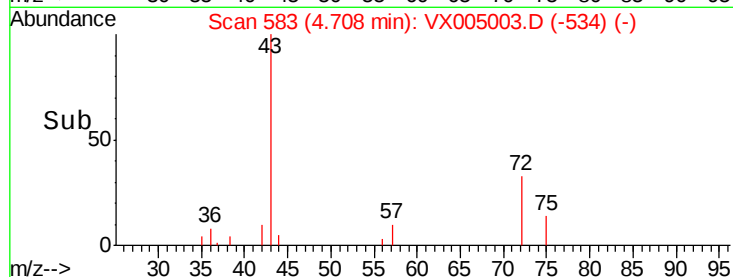
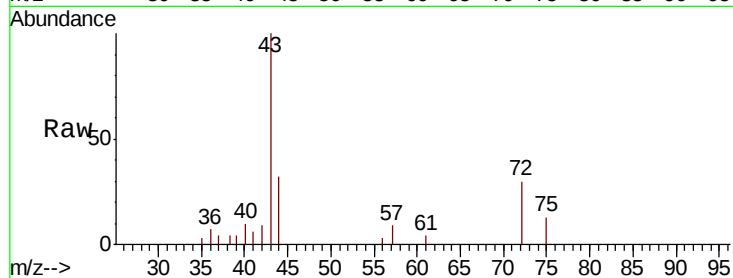




#25
2-Butanone
Concen: 1.476 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.00 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

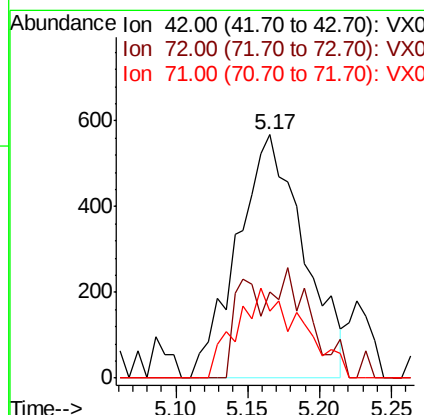
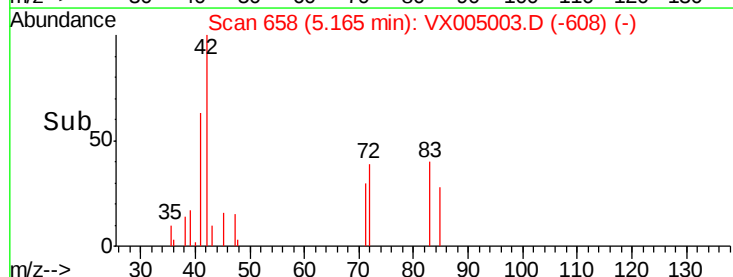
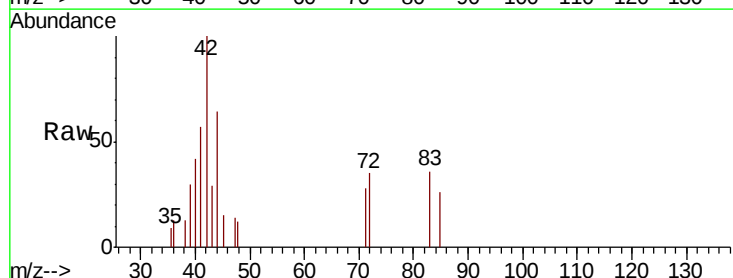
Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID41-1

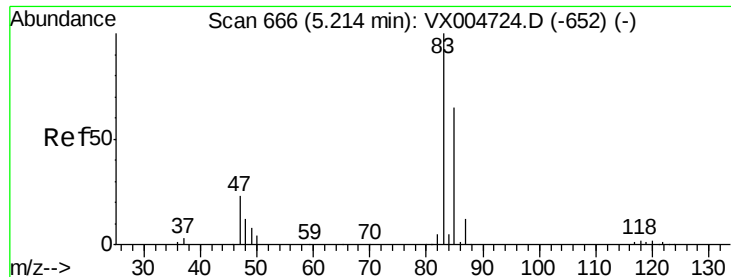
Tot Ion: 43 Resp: 5072
Ion Ratio Lower Upper
43 100
72 29.9 20.8 31.2



#29
Tetrahydrofuran
Concen: 0.855 ug/l
RT: 5.17 min Scan# 658
Delta R.T. 0.01 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Tgt Ion: 42 Resp: 1826
Ion Ratio Lower Upper
42 100
72 15.9 33.7 50.5#
71 35.7 32.2 48.4

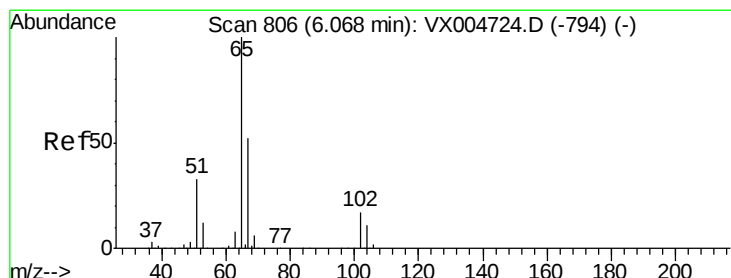
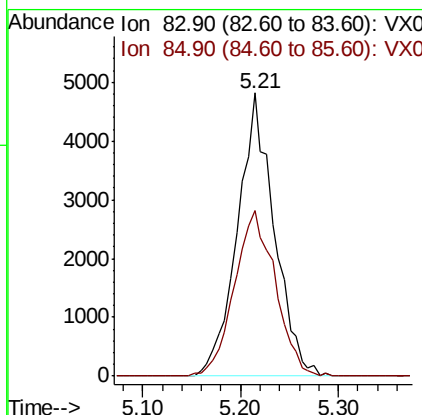
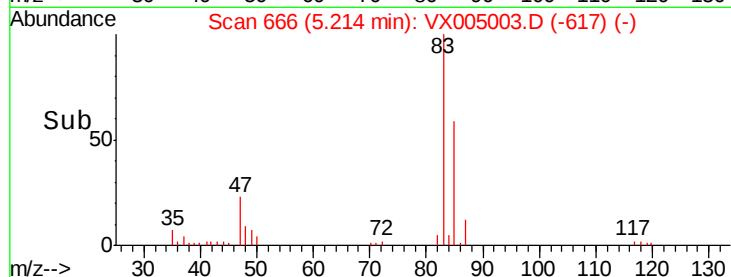
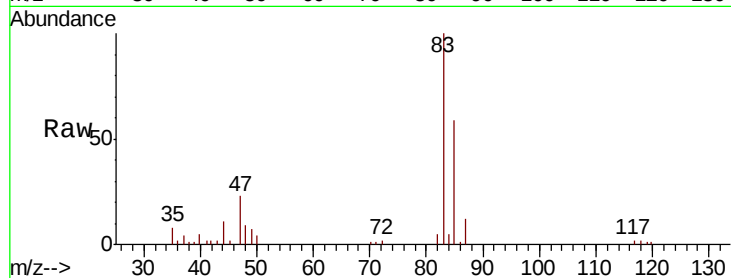




#30
Chloroform
Concen: 1.998 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

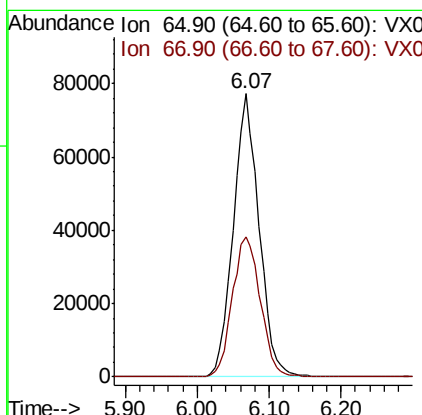
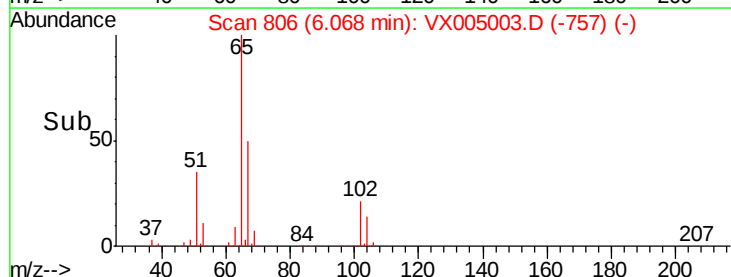
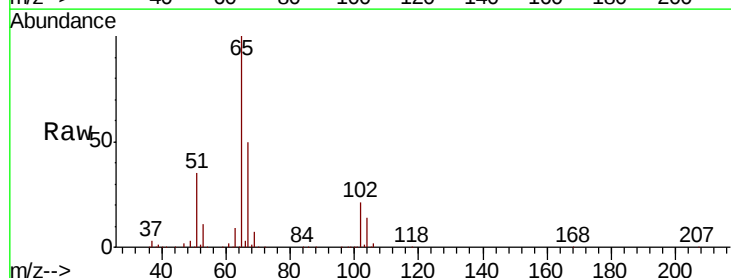
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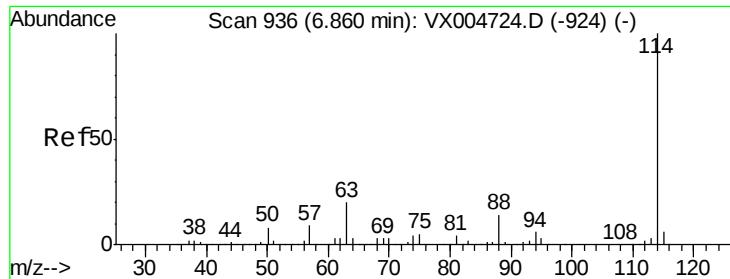
Tot Ion: 83 Resp: 12535
Ion Ratio Lower Upper
83 100
85 58.6 52.4 78.6



#33
1,2-Dichloroethane-d4
Concen: 47.953 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Tgt Ion: 65 Resp: 191458
Ion Ratio Lower Upper
65 100
67 53.9 0.0 107.4

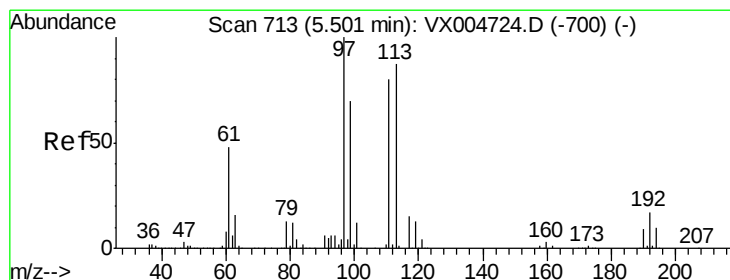
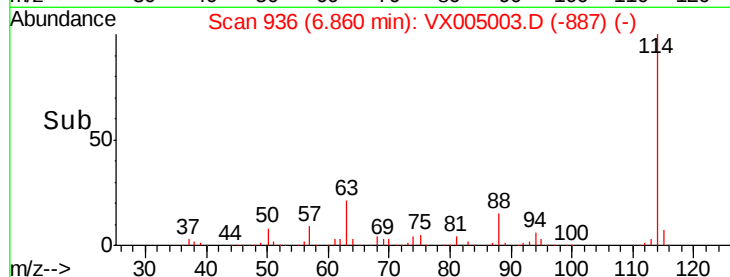
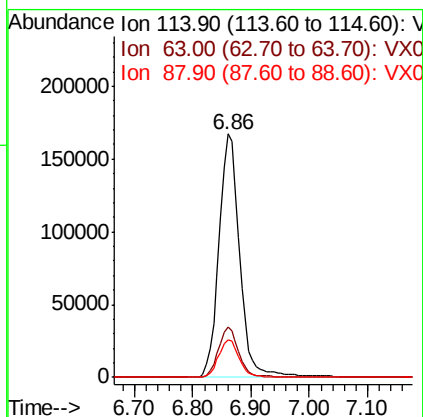
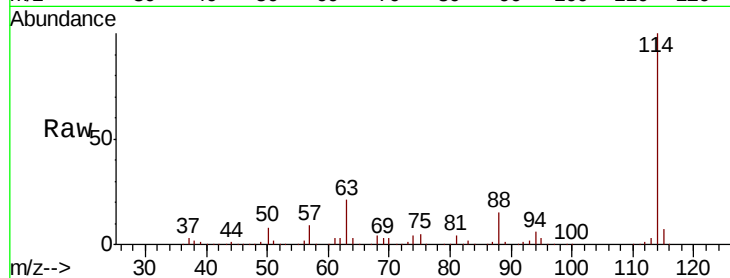




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. 0.00 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

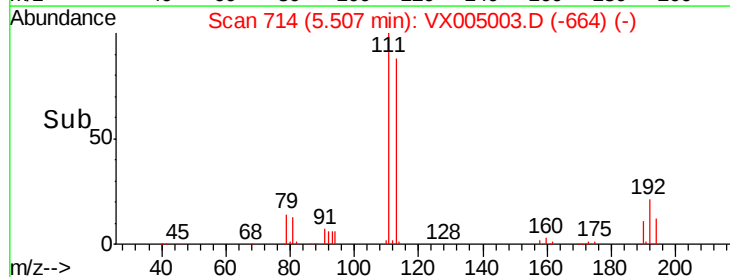
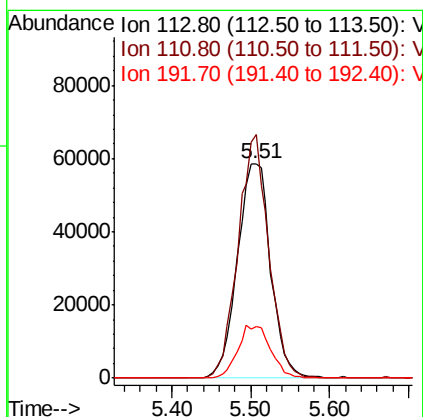
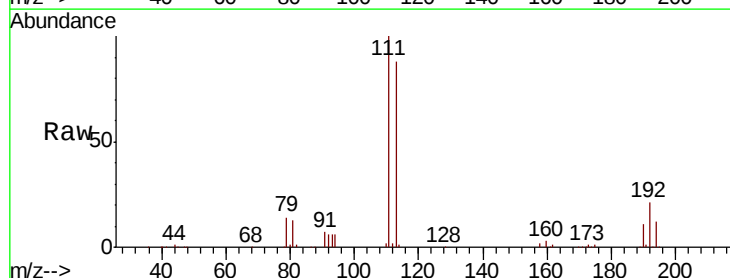
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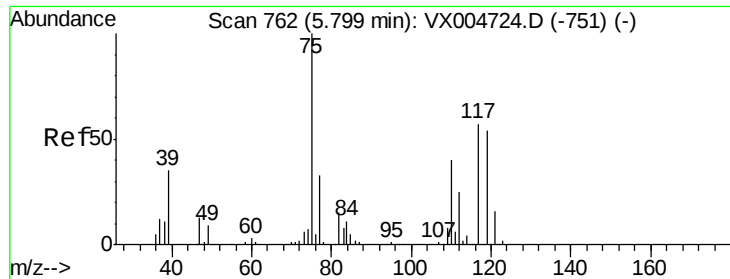
Tot Ion:114 Resp: 415451
Ion Ratio Lower Upper
114 100
63 20.8 0.0 39.8
88 15.3 0.0 27.0



#35
Dibromofluoromethane
Concen: 48.907 ug/l
RT: 5.51 min Scan# 714
Delta R.T. 0.01 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Tgt Ion:113 Resp: 172200
Ion Ratio Lower Upper
113 100
111 104.4 77.0 115.4
192 24.2 17.0 25.6





#36

1,1-Dichloropropene

Concen: 3.620 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID41-1

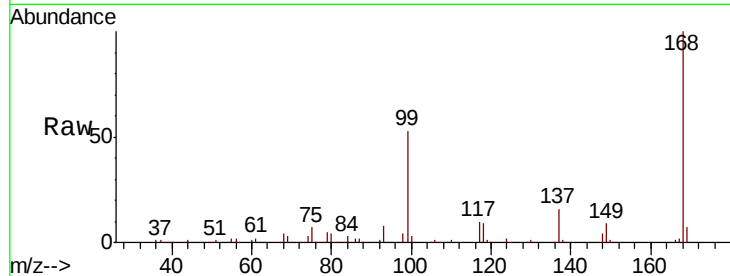
Tot Ion: 75 Resp: 17391

Ion Ratio Lower Upper

75 100

110 9.7 20.0 59.9#

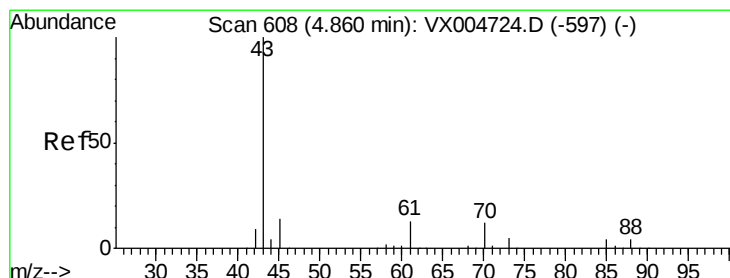
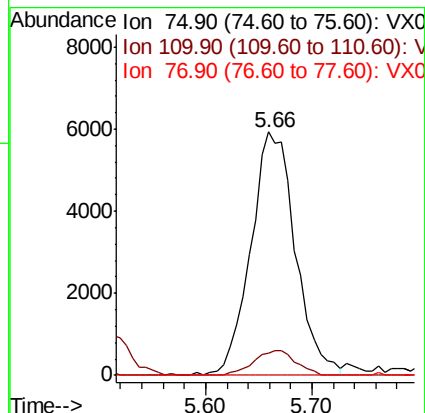
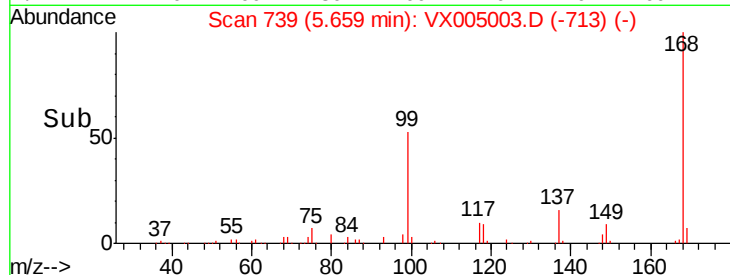
77 0.0 27.1 40.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 0.795 ug/l

RT: 4.71 min Scan# 583

Delta R.T. -0.15 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

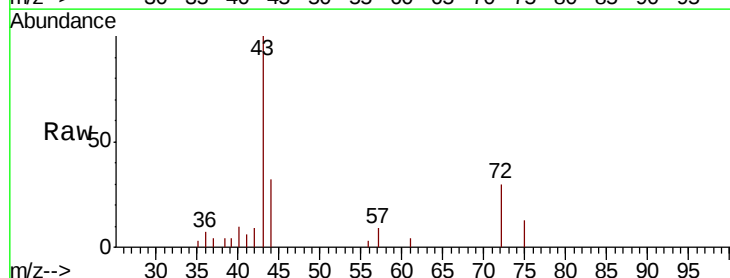
Tgt Ion: 43 Resp: 5072

Ion Ratio Lower Upper

43 100

61 0.9 10.4 15.6#

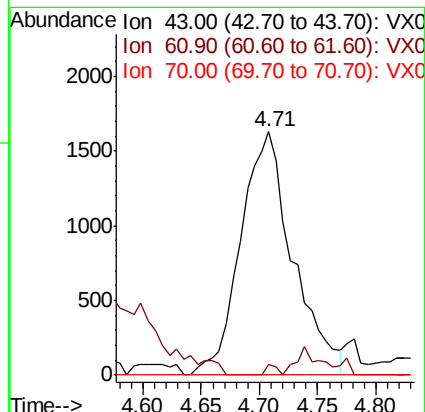
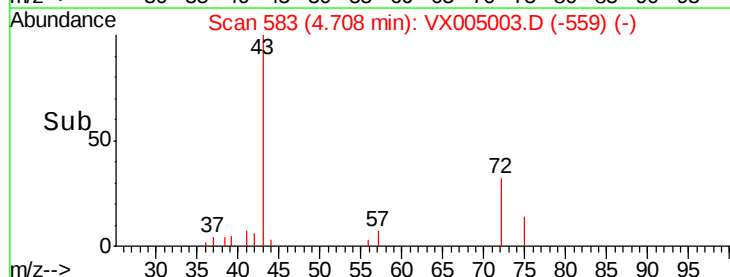
70 0.0 8.7 13.1#

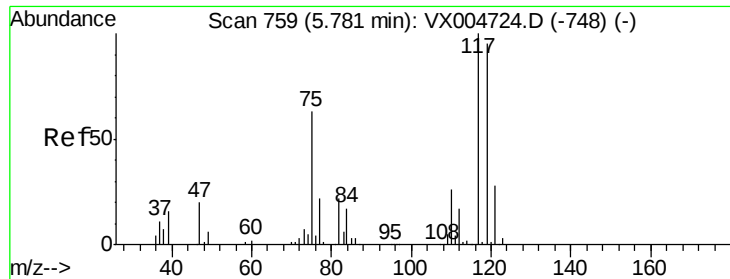


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

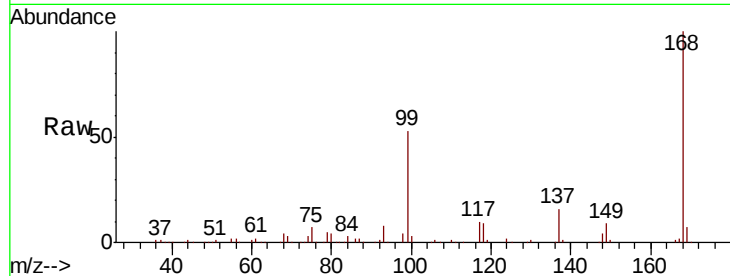




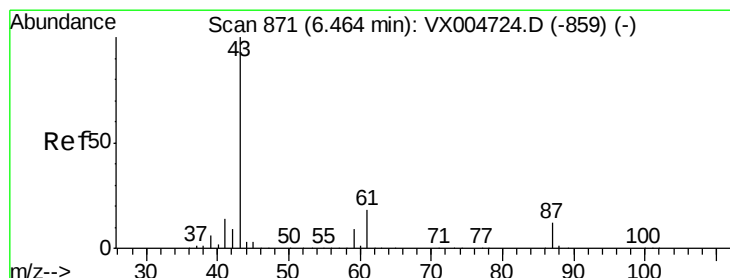
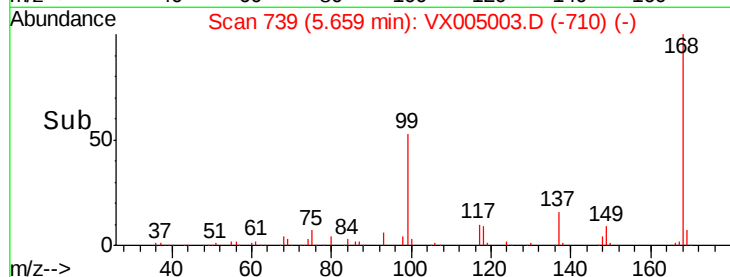
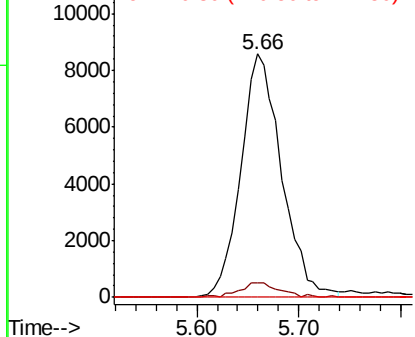
#38
Carbon Tetrachloride
Concen: 4.724 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID41-1

Tot Ion:117 Resp: 23854
Ion Ratio Lower Upper
117 100
119 6.2 75.2 112.8#
121 0.0 22.5 33.7#

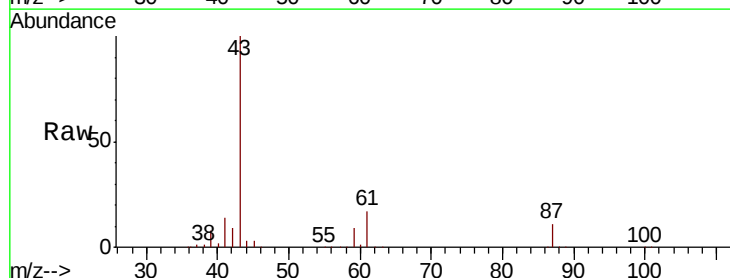


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

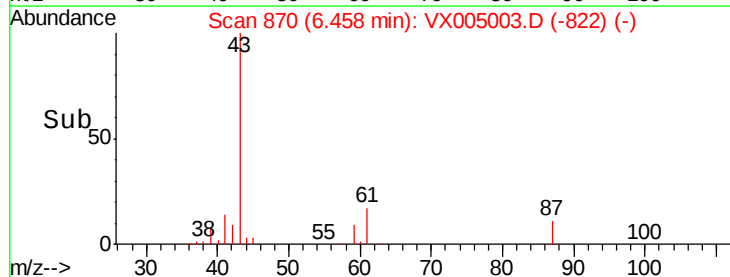
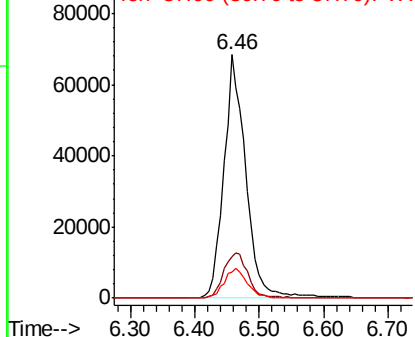


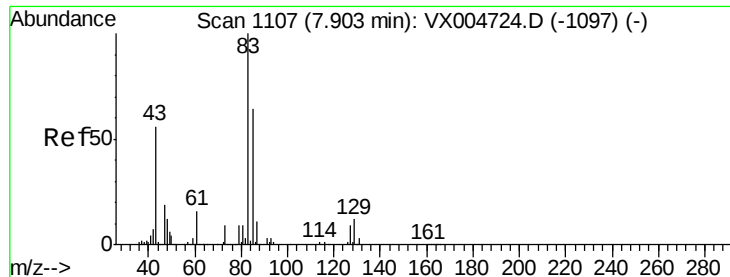
#43
Isopropyl Acetate
Concen: 17.915 ug/l
RT: 6.46 min Scan# 870
Delta R.T. -0.01 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Tgt Ion: 43 Resp: 164889
Ion Ratio Lower Upper
43 100
61 20.8 14.2 21.4
87 13.0 9.3 13.9



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





#47

Bromodichloromethane

Concen: 0.499 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. -0.01 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID41-1

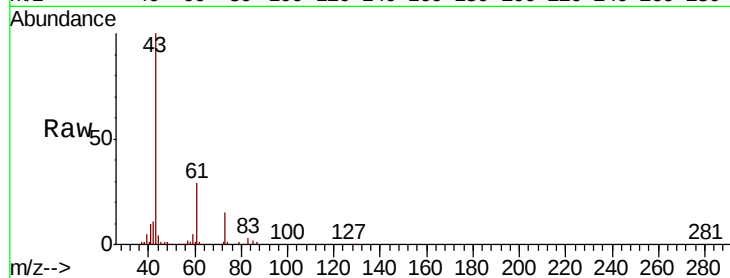
Tot Ion: 83 Resp: 2167

Ion Ratio Lower Upper

83 100

85 62.2 51.2 76.8

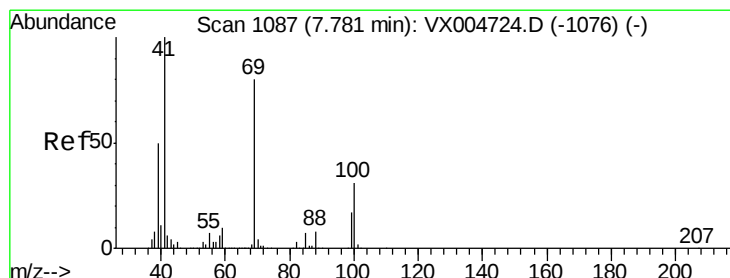
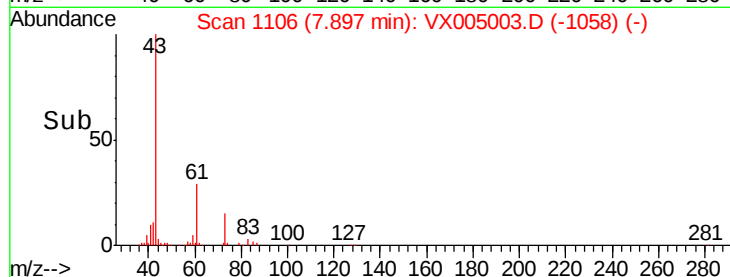
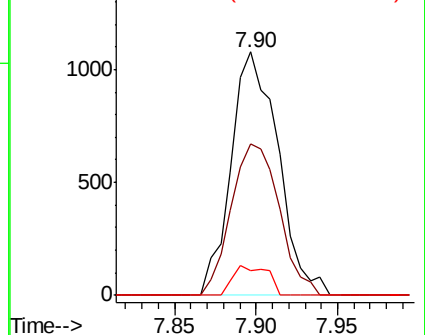
127 10.0 7.0 10.6



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 1.374 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

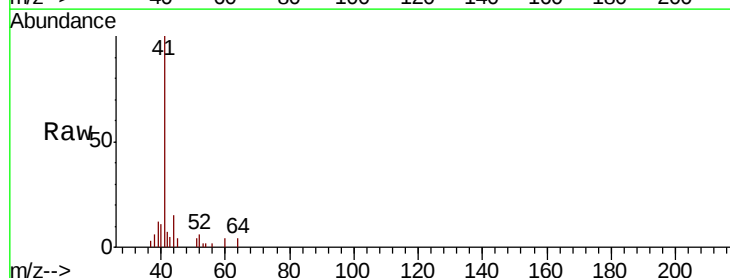
Tgt Ion: 41 Resp: 5740

Ion Ratio Lower Upper

41 100

69 0.0 63.8 95.6#

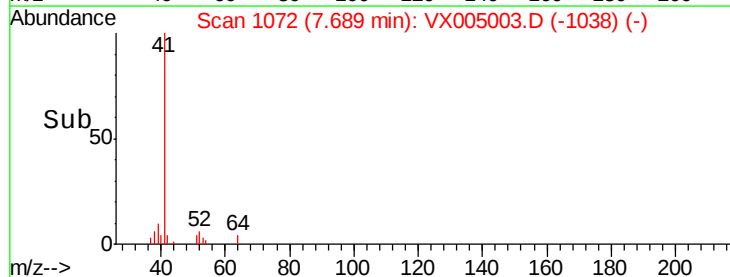
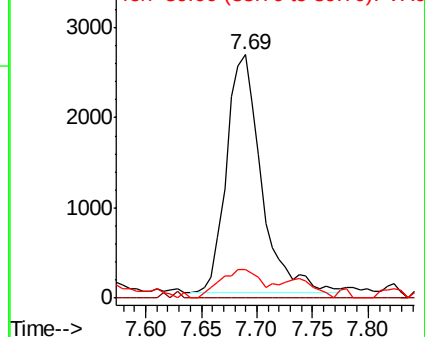
39 15.4 40.7 61.1#

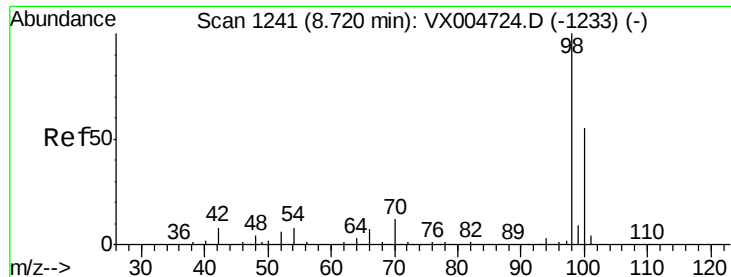


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

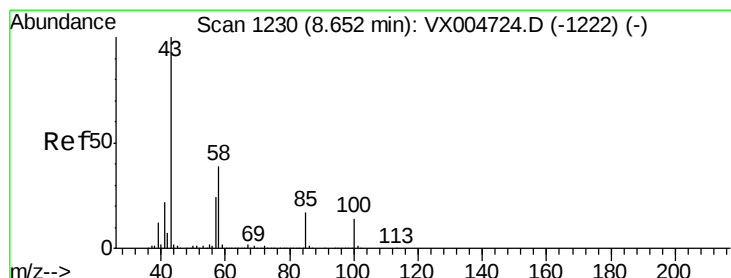
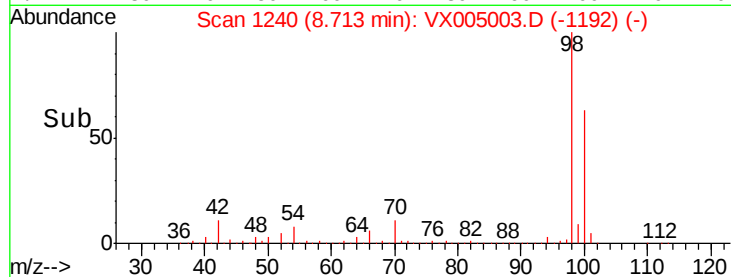
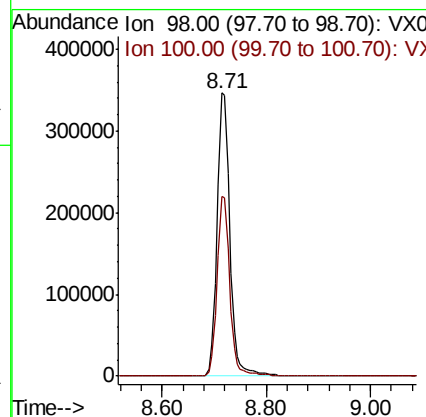
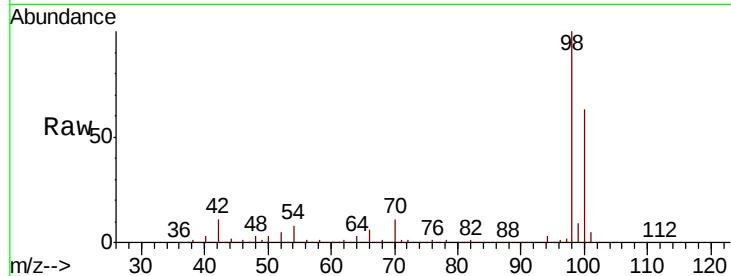




#50
Toluene-d8
Concen: 50.611 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.01 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

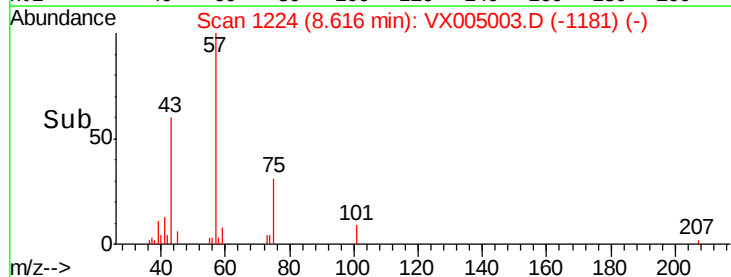
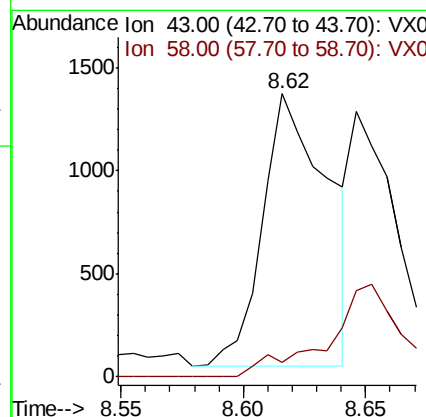
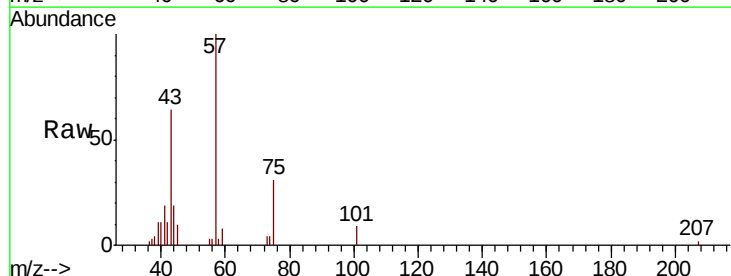
Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID41-1

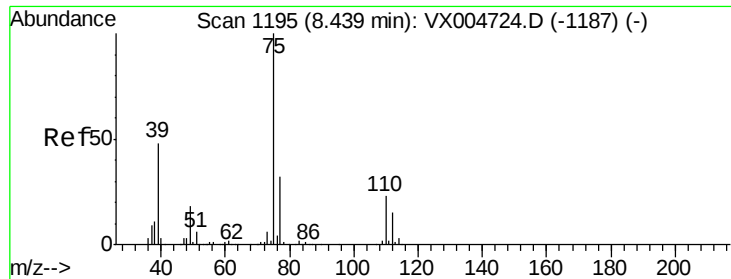
Tot Ion: 98 Resp: 592429
Ion Ratio Lower Upper
98 100
100 63.3 51.9 77.9



#51
4-Methyl-2-Pentanone
Concen: 0.419 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.04 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Tgt Ion: 43 Resp: 2431
Ion Ratio Lower Upper
43 100
58 0.0 30.5 45.7#



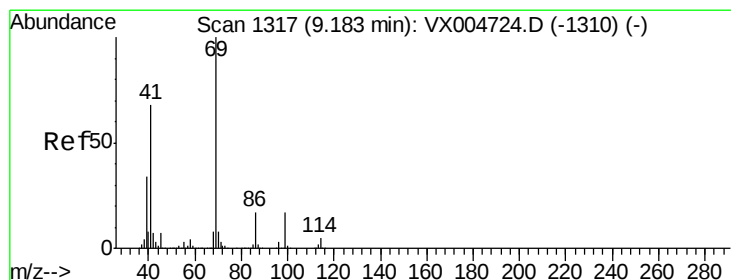
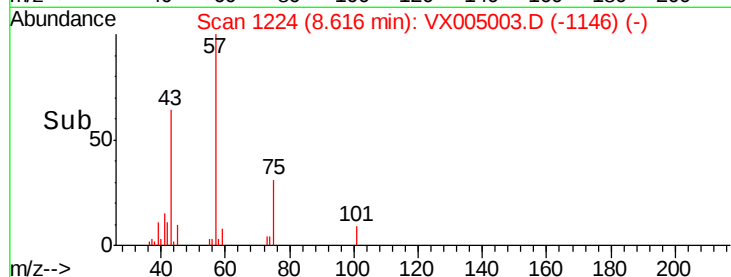
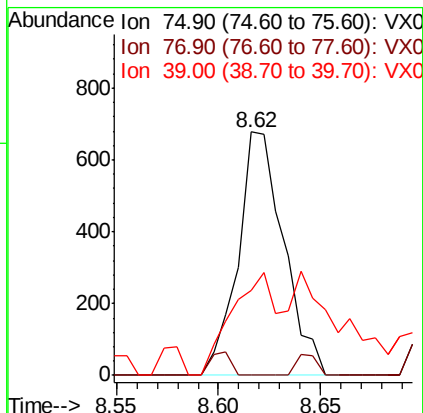
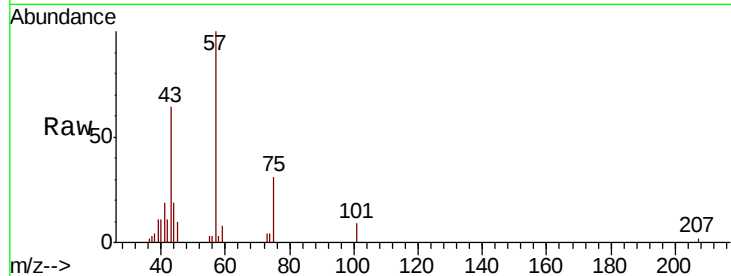


#54

cis-1,3-Dichloropropene
 Concen: 0.206 ug/l
 RT: 8.62 min Scan# 1224
 Delta R.T. 0.18 min
 Lab File: VX005003.D
 Acq: 04 Oct 2018 07:21

Instrument :
 MSVOA_X
 ClientSampleId :
 CB-1018-S-TCLP-GRID41-1

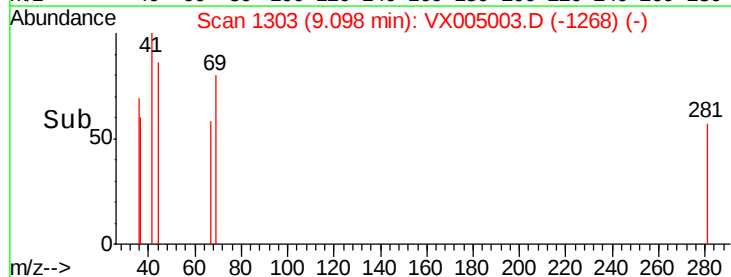
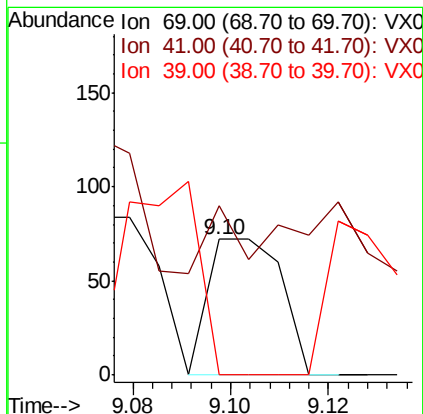
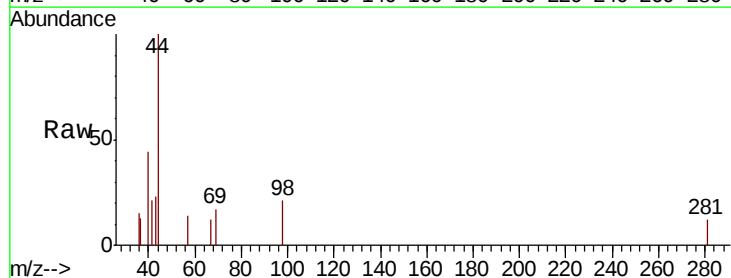
Tot Ion: 75 Resp: 1057
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.7 38.5#
 39 34.7 38.3 57.5#

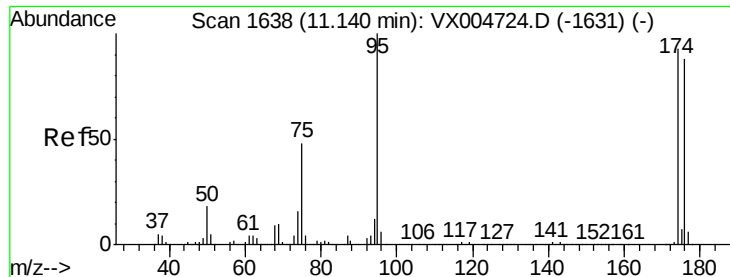


#56

Ethyl methacrylate
 Concen: 2.874 ug/l
 RT: 9.10 min Scan# 1303
 Delta R.T. -0.09 min
 Lab File: VX005003.D
 Acq: 04 Oct 2018 07:21

Tgt Ion: 69 Resp: 75
 Ion Ratio Lower Upper
 69 100
 41 0.0 56.9 85.3#
 39 138.7 28.4 42.6#





#62

4-Bromofluorobenzene

Concen: 51.163 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.00 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID41-1

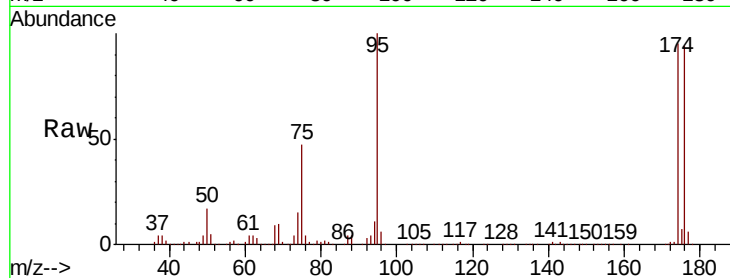
Tot Ion: 95 Resp: 215754

Ion Ratio Lower Upper

95 100

174 92.7 0.0 185.0

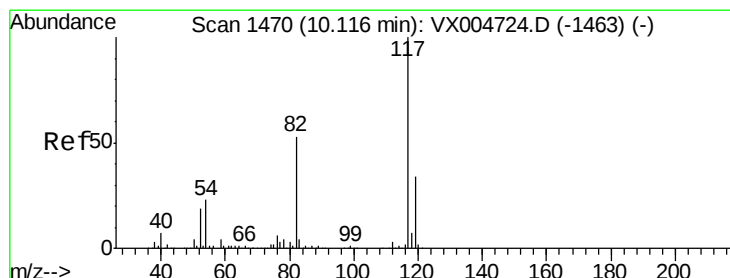
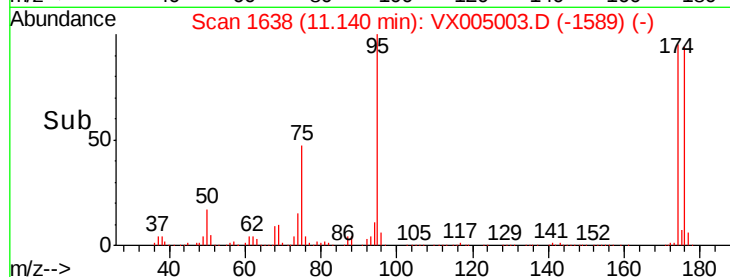
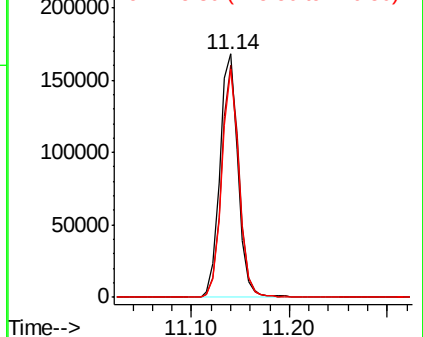
176 89.2 0.0 180.2



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: VX005003.D

Acq: 04 Oct 2018 07:21

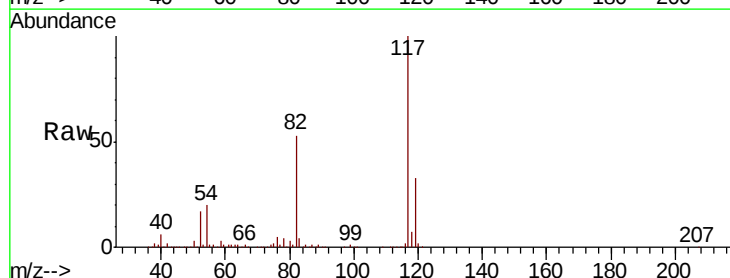
Tgt Ion: 117 Resp: 405759

Ion Ratio Lower Upper

117 100

82 53.5 42.2 63.4

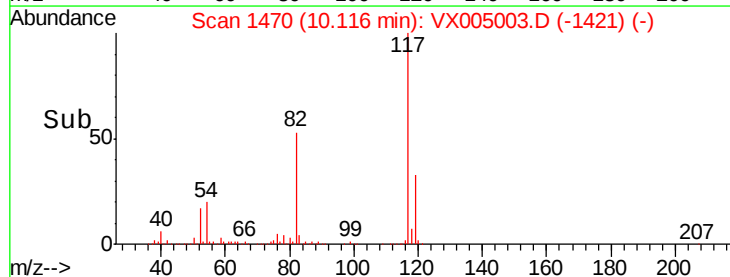
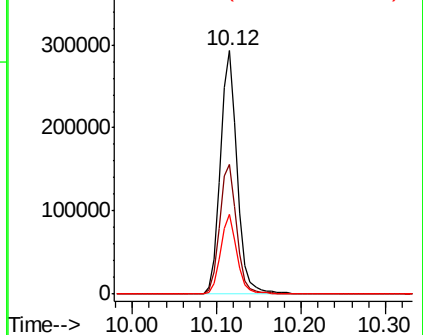
119 32.5 27.4 41.0

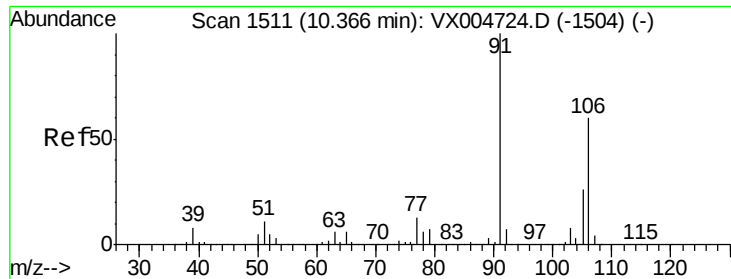


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

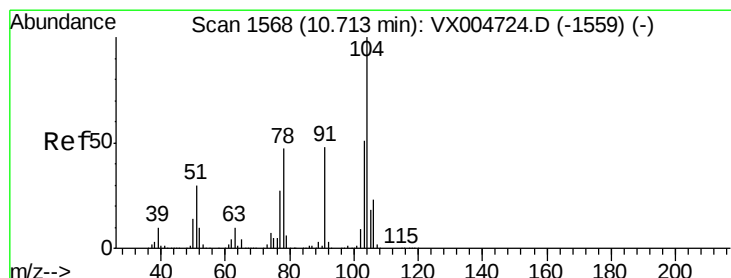
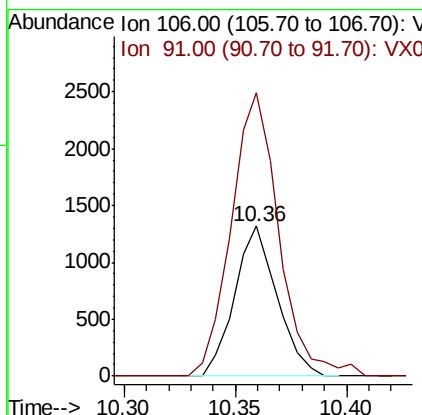
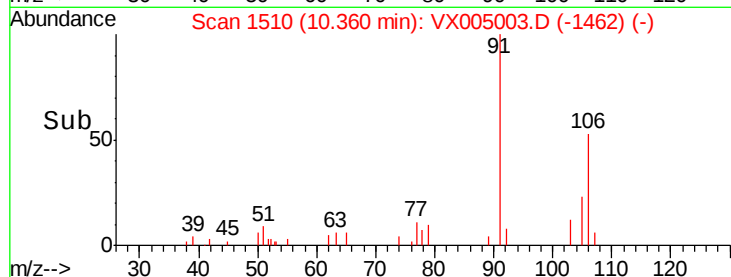
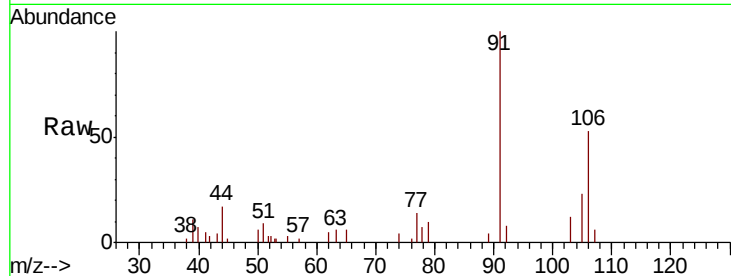




#68
m/p-Xvlenes
Concen: 0.270 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.01 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

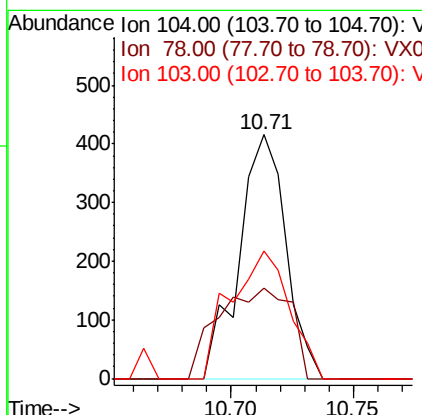
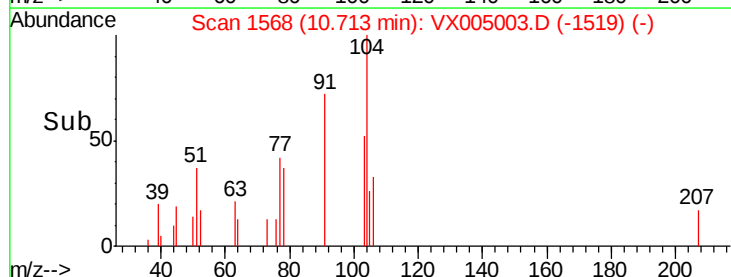
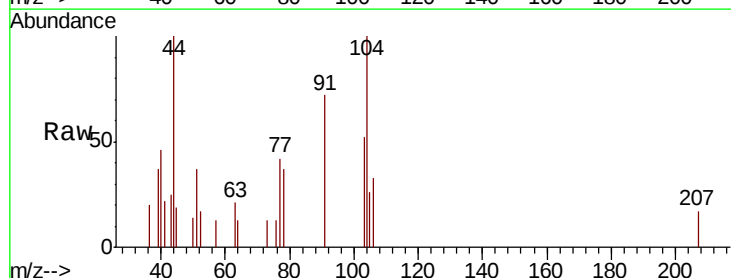
Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID41-1

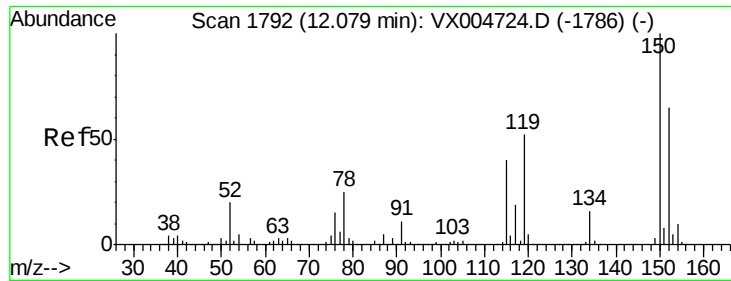
Tot Ion:106 Resp: 1745
Ion Ratio Lower Upper
106 100
91 212.4 157.5 236.3



#70
Styrene
Concen: 2.188 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Tgt Ion:104 Resp: 554
Ion Ratio Lower Upper
104 100
78 57.8 40.0 60.0
103 66.6 44.3 66.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

Instrument :

MSVOA_X

ClientSampleId :

CB-1018-S-TCLP-GRID41-1

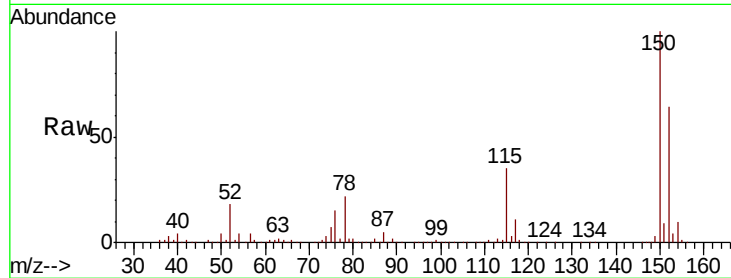
Tot Ion:152 Resp: 226723

Ion Ratio Lower Upper

152 100

115 54.7 40.2 120.6

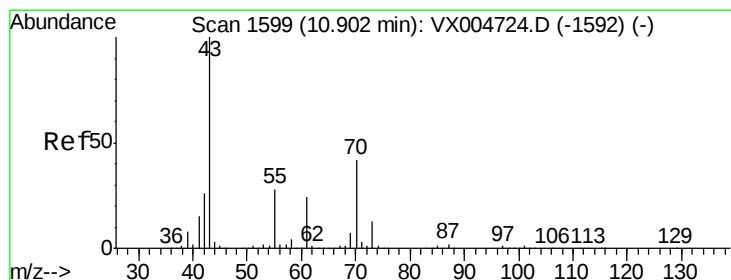
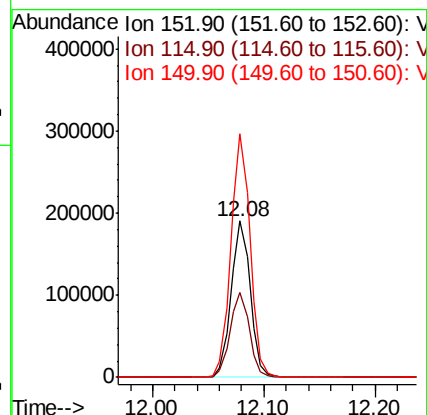
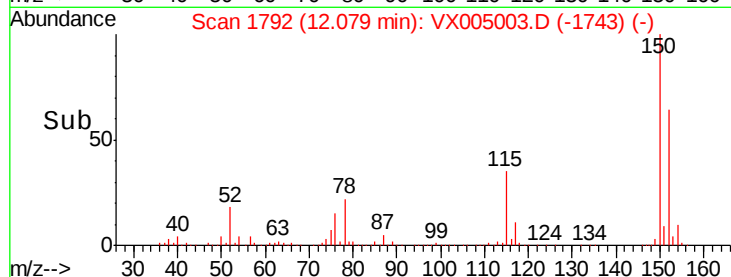
150 156.0 0.0 351.0



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-amyl acetate

Concen: 1.758 ug/l

RT: 10.88 min Scan# 1596

Delta R.T. -0.02 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

Tgt Ion: 43 Resp: 82

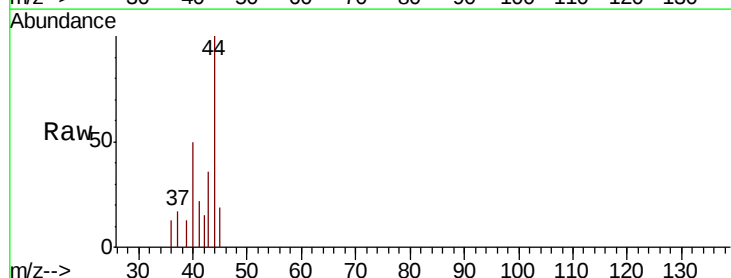
Ion Ratio Lower Upper

43 100

70 0.0 32.6 48.8#

55 97.6 21.6 32.4#

61 0.0 19.1 28.7#

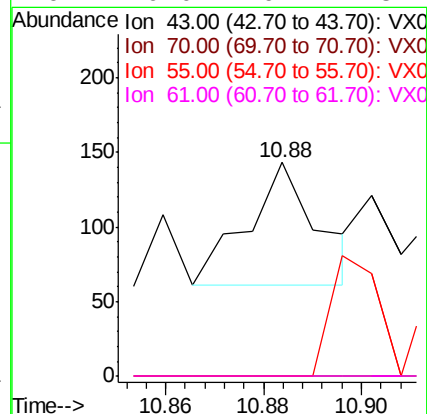
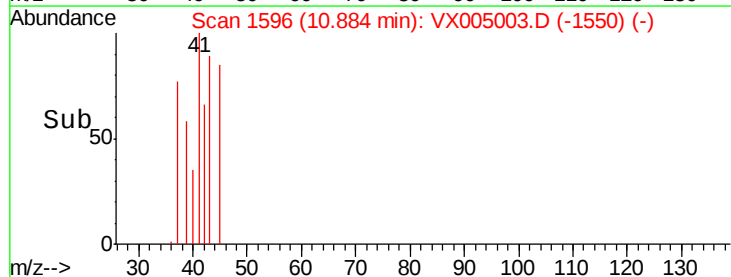


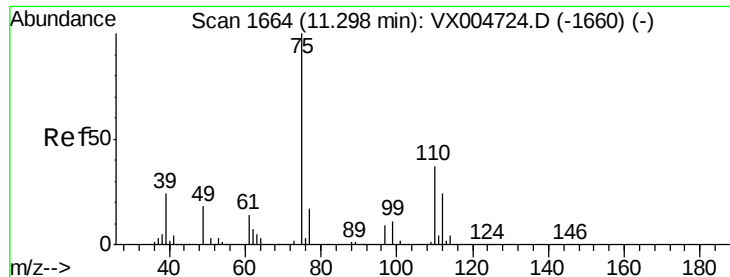
Abundance Ion 43.00 (42.70 to 43.70): VX0

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





#76

1,2,3-Trichloropropane

Concen: 20.670 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

Instrument :

MSVOA_X

ClientSampleId :

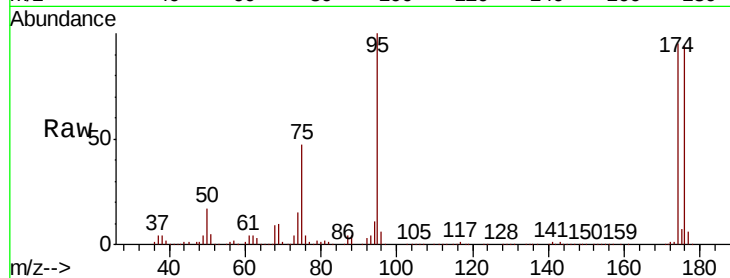
CB-1018-S-TCLP-GRID41-1

Tot Ion: 75 Resp: 105041

Ion Ratio Lower Upper

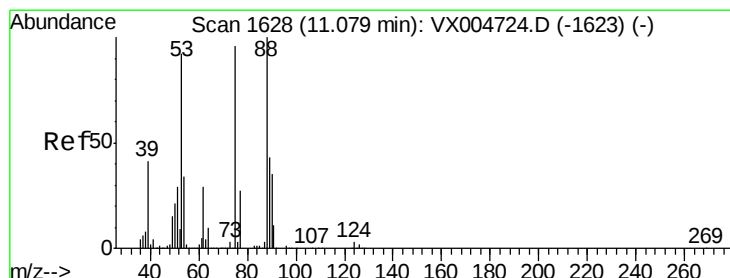
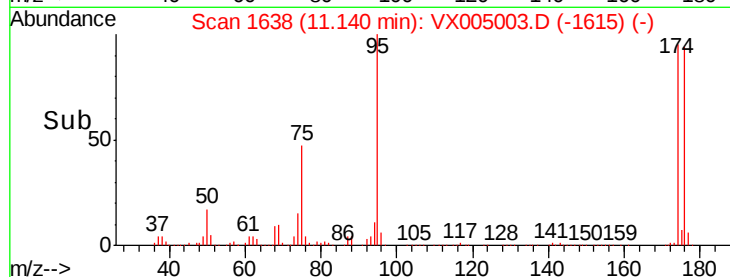
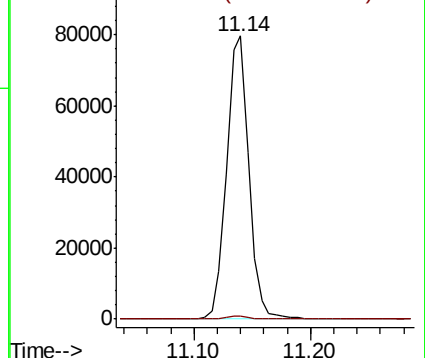
75 100

77 1.3 21.4 64.3#



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: 56.123 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX005003.D

Acq: 04 Oct 2018 07:21

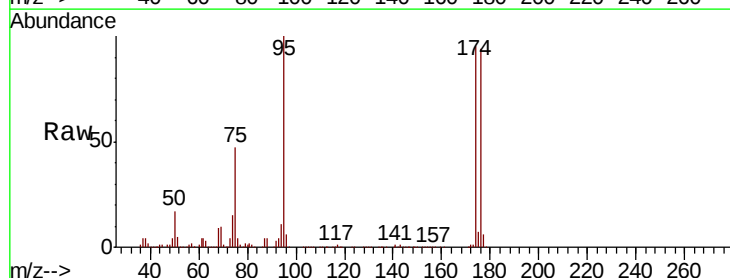
Tgt Ion: 75 Resp: 105041

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

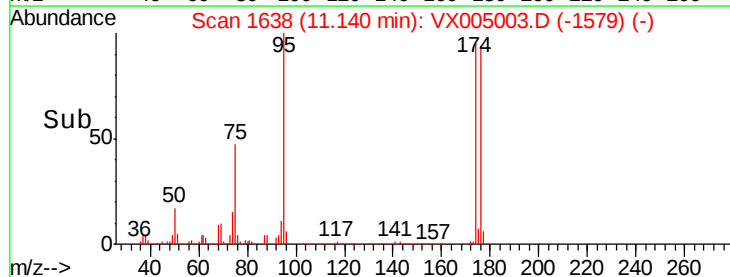
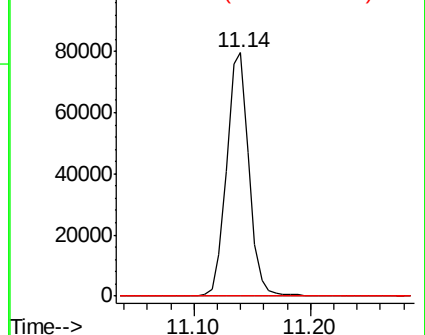
89 0.0 37.1 55.7#

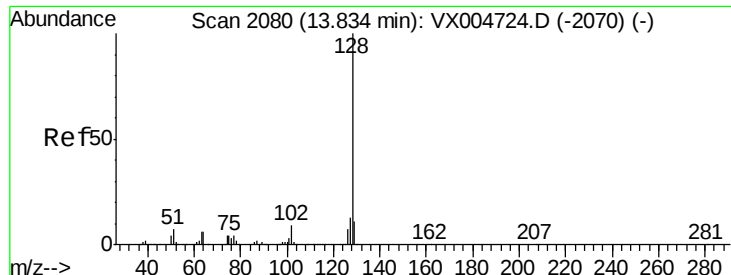


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#95
Naphthalene
Concen: 2.176 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX005003.D
Acq: 04 Oct 2018 07:21

Instrument :
MSVOA_X
ClientSampleId :
CB-1018-S-TCLP-GRID41-1

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.4	15.6
129	11.6	8.7	13.1

