

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110218\
 Data File : VX005766.D
 Acq On : 02 Nov 2018 19:38
 Operator : JC/MD
 Sample : J5767-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-110118-A

Quant Time: Nov 03 01:30:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 31 18:23:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	108667	50.00	ug/l	0.01
34) 1,4-Difluorobenzene	6.86	114	187941	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	168430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	68824	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	86014	54.14	ug/l	0.00
Spiked Amount			Recovery	=	108.28%	
35) Dibromofluoromethane	5.50	113	65303	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
50) Toluene-d8	8.72	98	224192	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	
62) 4-Bromofluorobenzene	11.14	95	69849	41.47	ug/l	0.00
Spiked Amount			Recovery	=	82.94%	

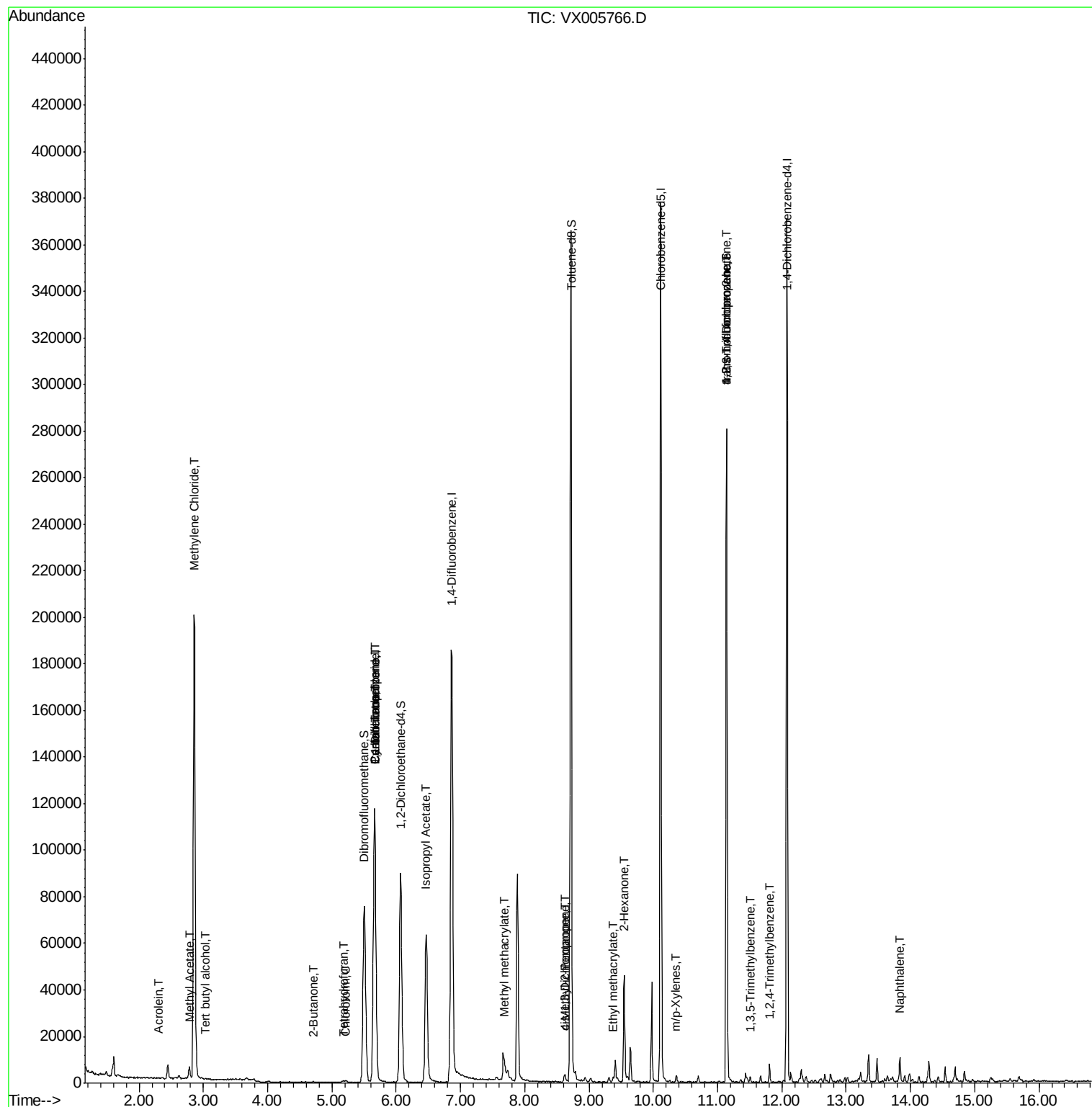
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	49	Below Cal	#	42
11) Tert butyl alcohol	3.02	59	215	0.498	ug/l #	72
13) Acrolein	2.29	56	124	12.565	ug/l	88
16) Acetone	2.45	43	6436	Below Cal		95
18) Methyl Acetate	2.78	43	6397	2.806	ug/l	93
20) Methylene Chloride	2.85	84	90847	66.310	ug/l	98
25) 2-Butanone	4.71	43	802	0.598	ug/l #	51
29) Tetrahydrofuran	5.18	42	506	0.619	ug/l #	82
30) Chloroform	5.21	83	862	0.347	ug/l	99
31) Cyclohexane	5.67	56	2839	1.337	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	9493	4.741	ug/l #	48
38) Carbon Tetrachloride	5.67	117	10820	5.981	ug/l #	16
43) Isopropyl Acetate	6.47	43	86052	23.208	ug/l	98
48) Methyl methacrylate	7.69	41	4278	2.384	ug/l #	27
51) 4-Methyl-2-Pentanone	8.63	43	1609	0.636	ug/l #	59
54) cis-1,3-Dichloropropene	8.62	75	471	0.222	ug/l #	67
56) Ethyl methacrylate	9.38	69	67	2.498	ug/l #	1
59) 2-Hexanone	9.54	43	5011	2.436	ug/l	64
68) m/p-Xylenes	10.36	106	625	0.275	ug/l	99
76) 1,2,3-Trichloropropane	11.14	75	37192	21.697	ug/l #	37
80) 1,3,5-Trimethylbenzene	11.51	105	1009	0.262	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.14	75	37192	70.102	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	3068	0.788	ug/l	100
95) Naphthalene	13.83	128	6046	1.260	ug/l	98

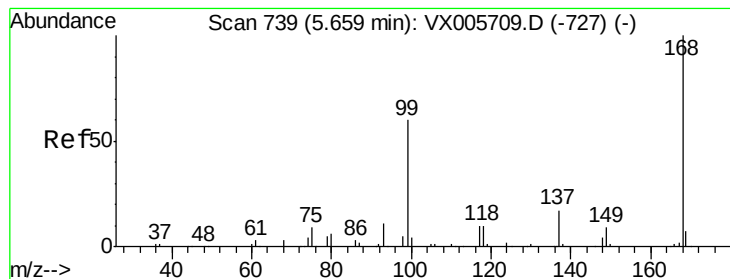
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X103118W.M
Quant Title : SW846 8260
QLast Update : Wed Oct 31 18:23:06 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 741

Delta R.T. 0.01 min

Lab File: VX005766.D

Acq: 02 Nov 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

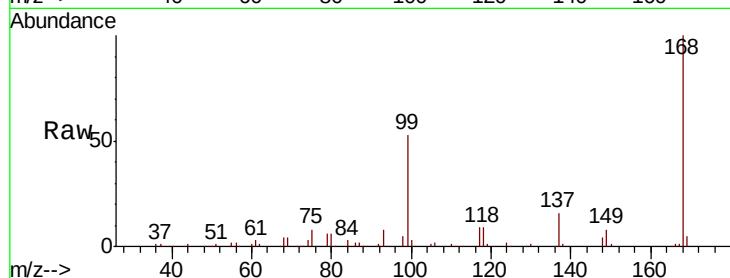
CL-02-110118-A

Tot Ion:168 Resp: 108667

Ion Ratio Lower Upper

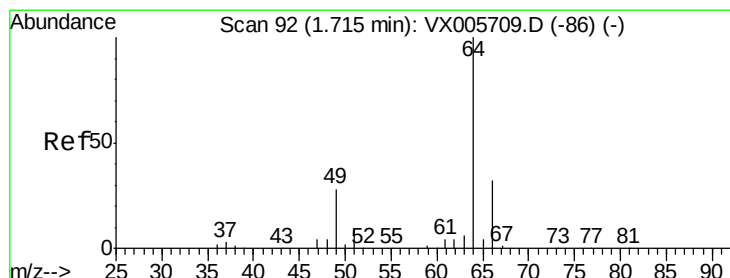
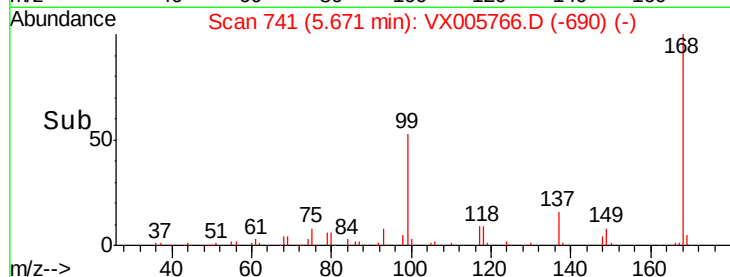
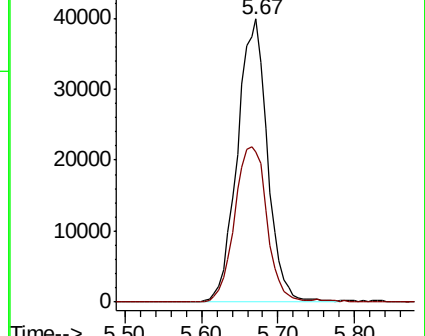
168 100

99 53.0 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX005766.D

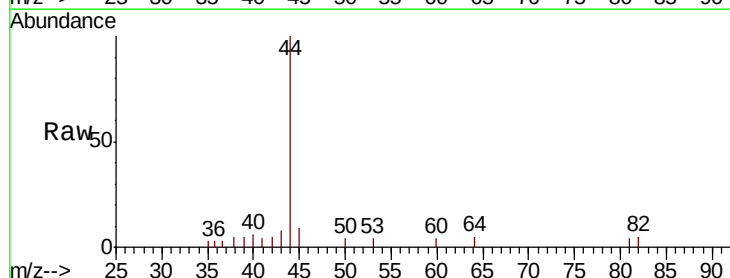
Acq: 02 Nov 2018 19:38

Tgt Ion: 64 Resp: 49

Ion Ratio Lower Upper

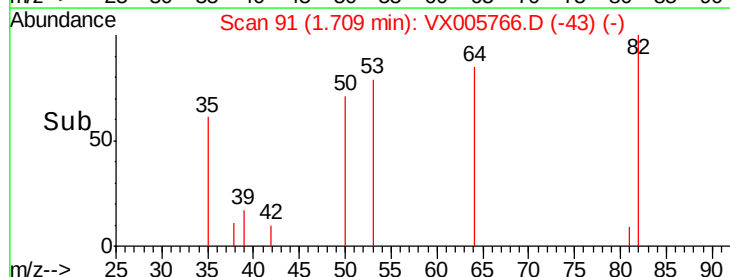
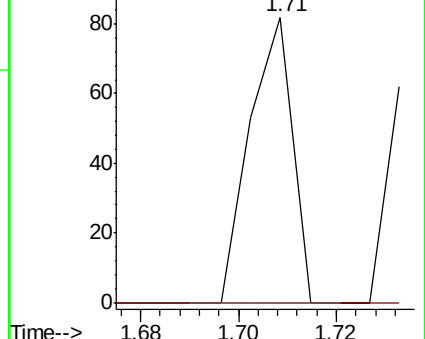
64 100

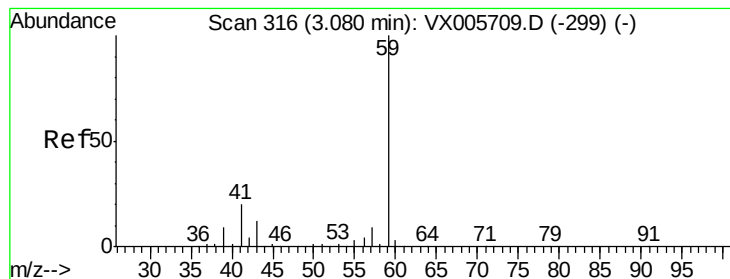
66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#11

Tert butyl alcohol

Concen: 0.498 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005766.D

Acq: 02 Nov 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

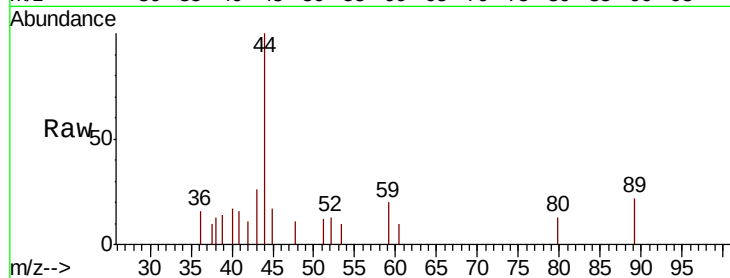
CL-02-110118-A

Tot Ion: 59 Resp: 215

Ion Ratio Lower Upper

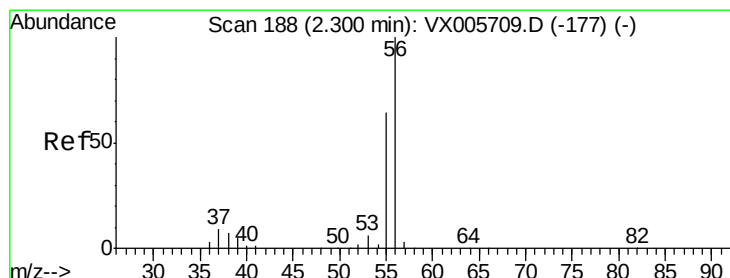
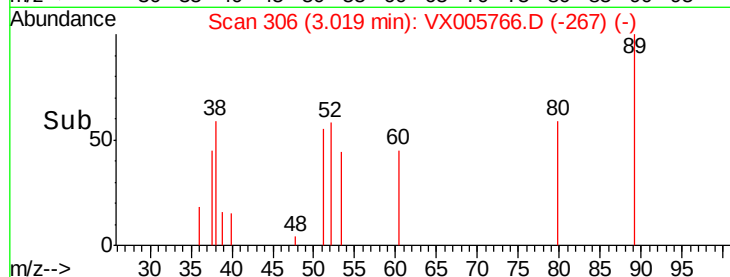
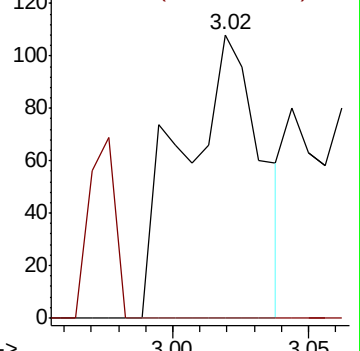
59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



#13

Acrolein

Concen: 12.565 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX005766.D

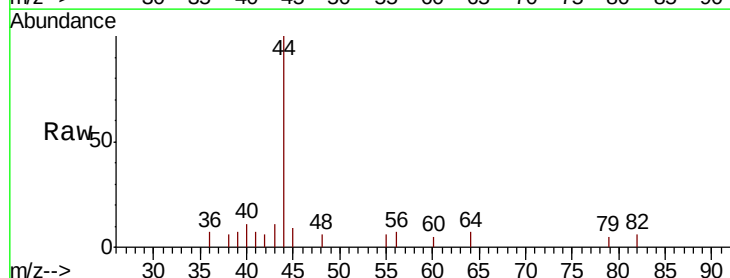
Acq: 02 Nov 2018 19:38

Tgt Ion: 56 Resp: 124

Ion Ratio Lower Upper

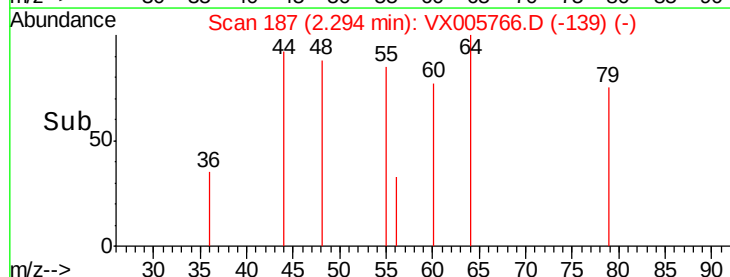
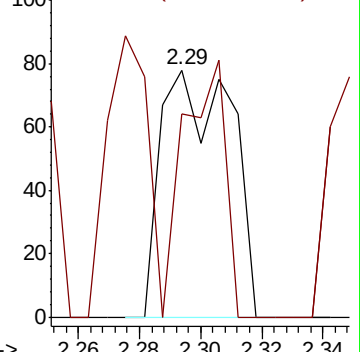
56 100

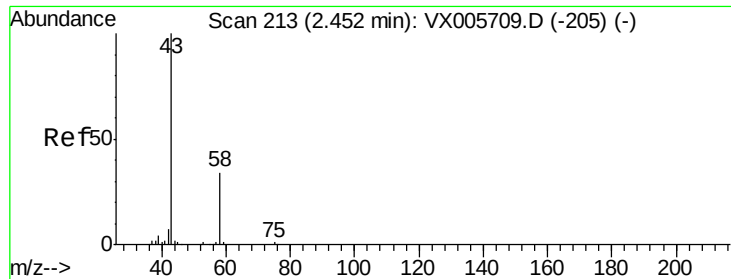
55 61.3 57.3 85.9



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005766.D

Acq: 02 Nov 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

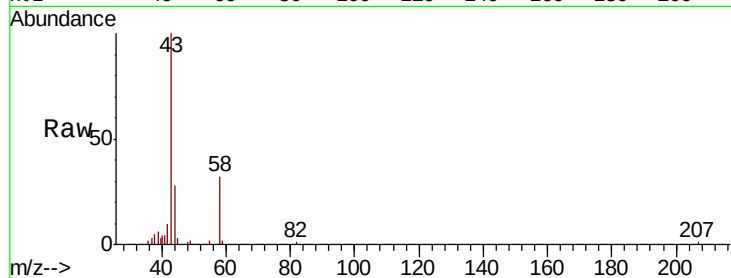
CL-02-110118-A

Tot Ion: 43 Resp: 6436

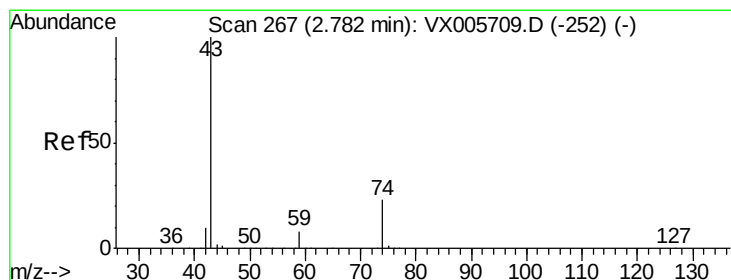
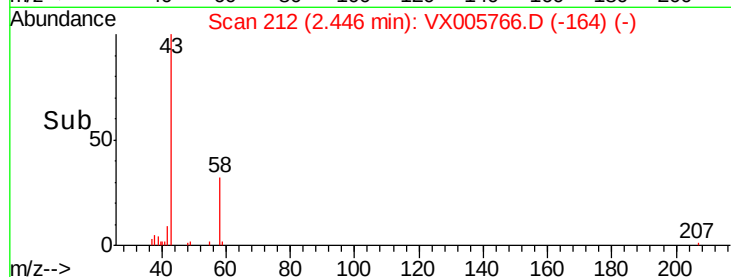
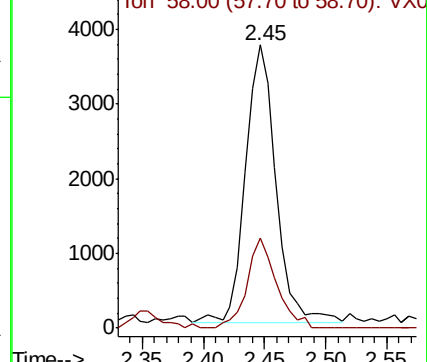
Ion Ratio Lower Upper

43 100

58 32.3 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0



#18

Methyl Acetate

Concen: 2.806 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX005766.D

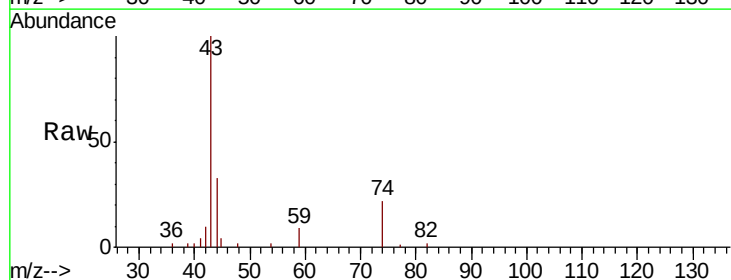
Acq: 02 Nov 2018 19:38

Tgt Ion: 43 Resp: 6397

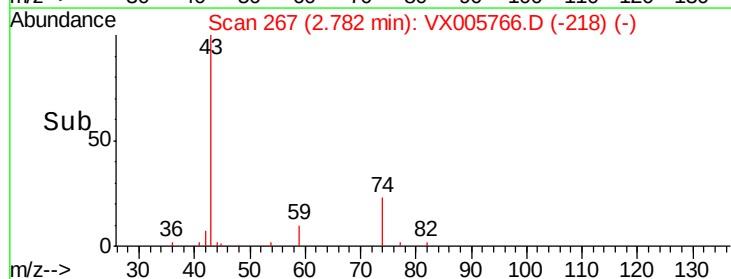
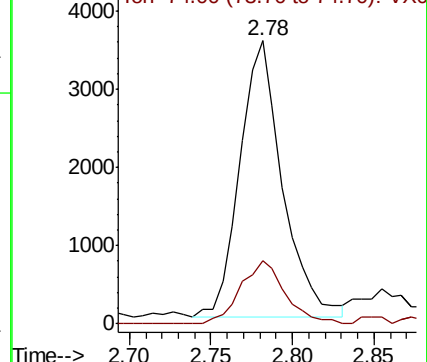
Ion Ratio Lower Upper

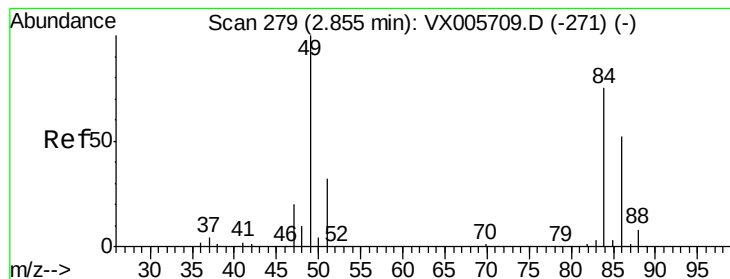
43 100

74 24.1 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0





#20

Methvlene Chloride

Concen: 66.310 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.00 min

Lab File: VX005766.D

Acq: 02 Nov 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

CL-02-110118-A

Tot Ion: 84 Resp: 90847

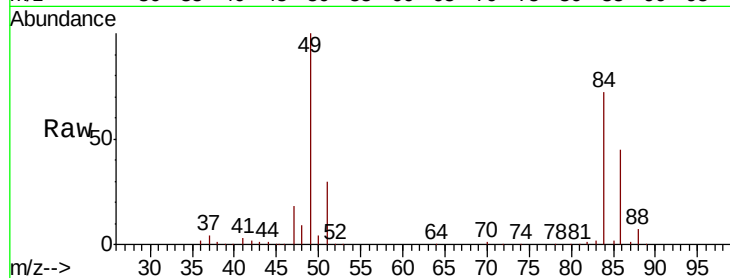
Ion Ratio Lower Upper

84 100

49 139.1 109.5 164.3

51 42.0 33.3 49.9

86 62.2 52.7 79.1

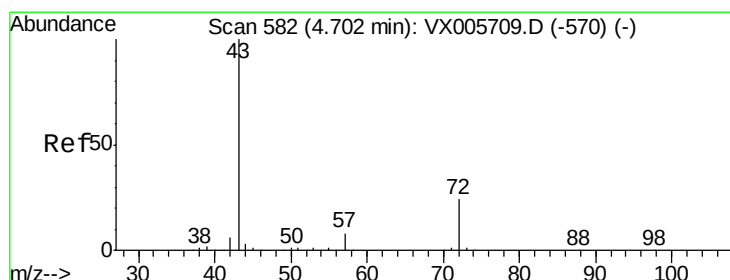
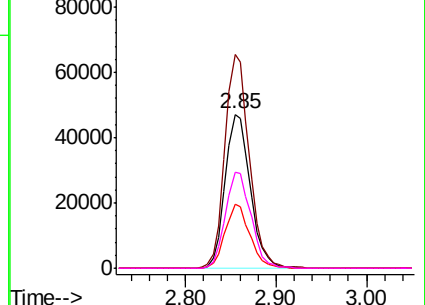
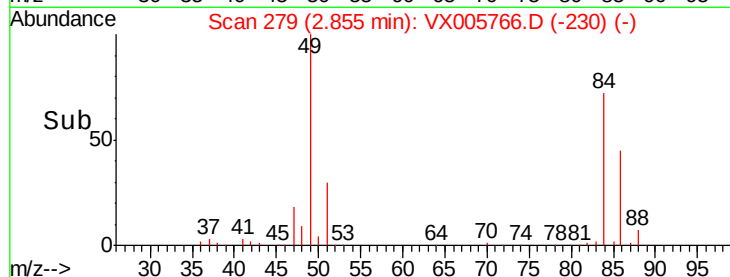


Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.598 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX005766.D

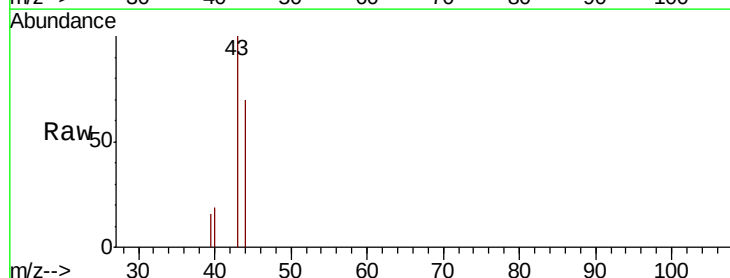
Acq: 02 Nov 2018 19:38

Tgt Ion: 43 Resp: 802

Ion Ratio Lower Upper

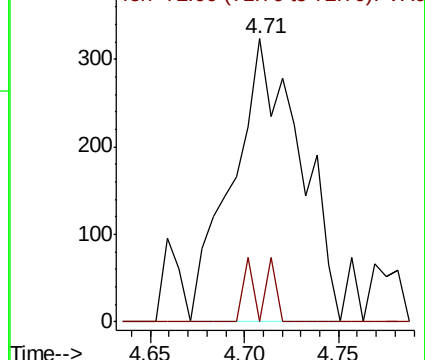
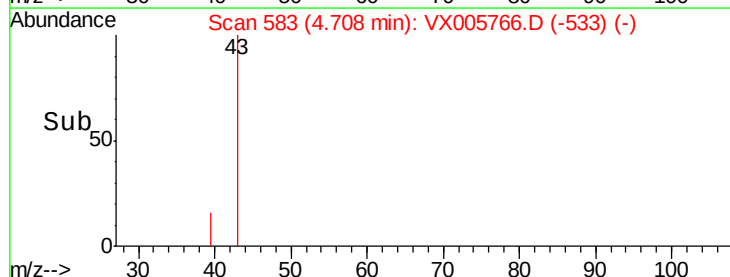
43 100

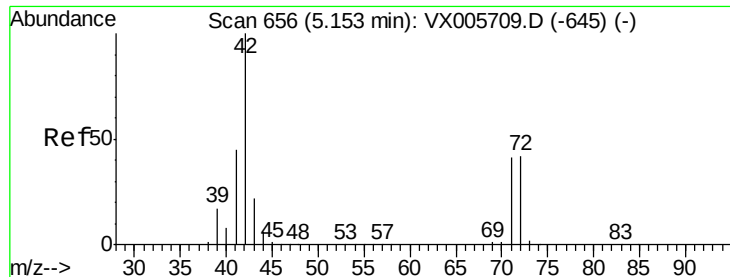
72 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

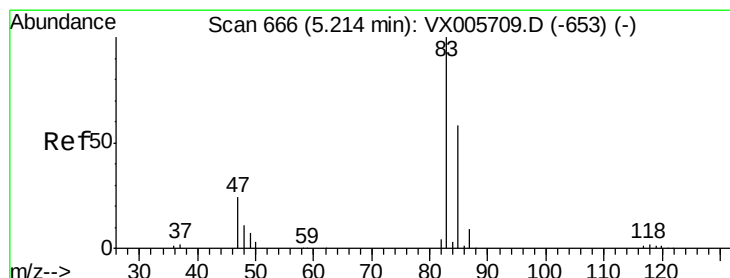
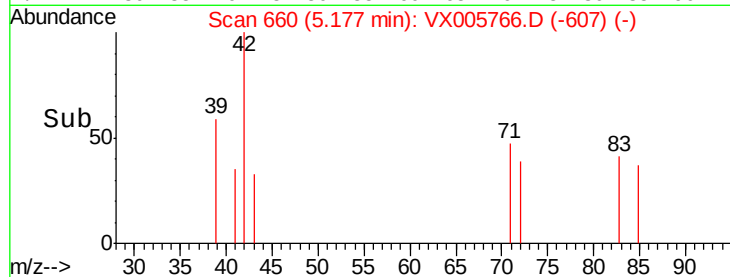
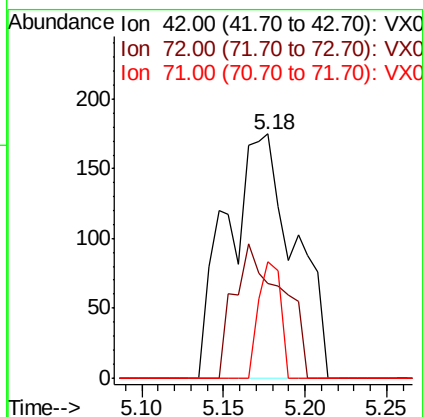
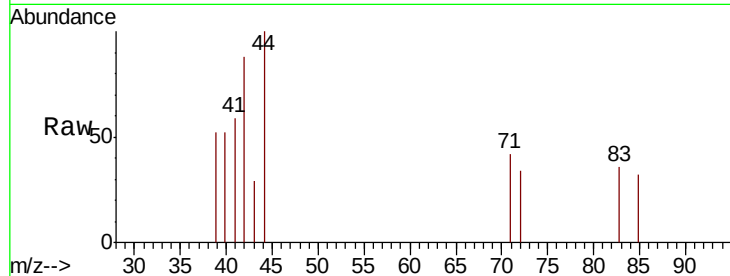




#29
Tetrahydrofuran
Concen: 0.619 ug/l
RT: 5.18 min Scan# 660
Delta R.T. 0.02 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

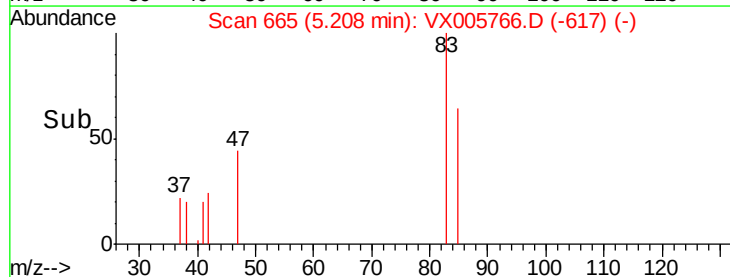
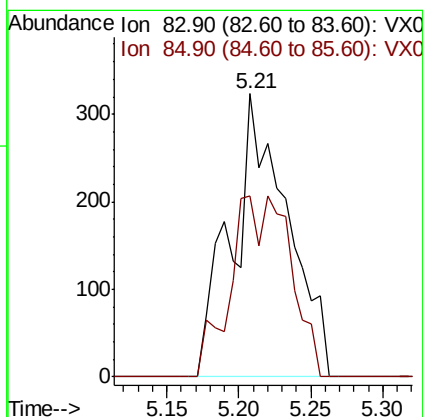
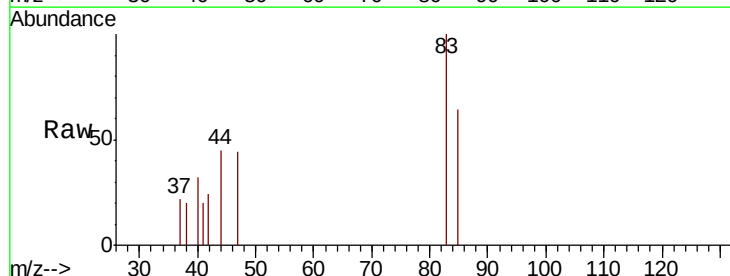
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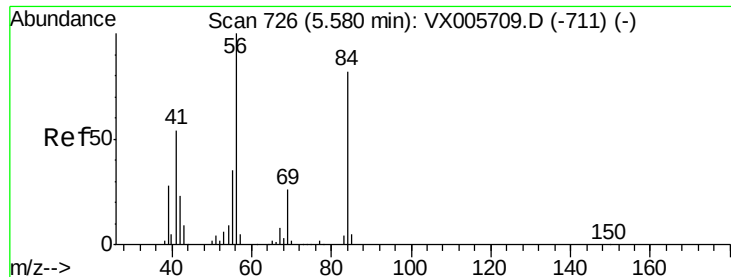
Tot Ion: 42 Resp: 506
Ion Ratio Lower Upper
42 100
72 38.9 32.0 48.0
71 15.6 29.8 44.8#



#30
Chloroform
Concen: 0.347 ug/l
RT: 5.21 min Scan# 665
Delta R.T. -0.01 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

Tgt Ion: 83 Resp: 862
Ion Ratio Lower Upper
83 100
85 64.1 50.6 76.0

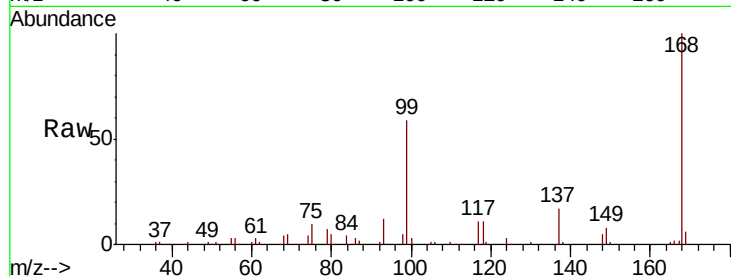




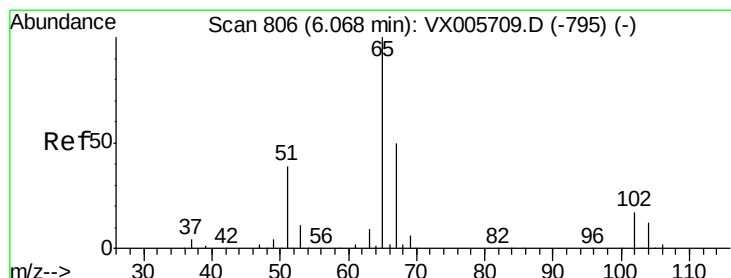
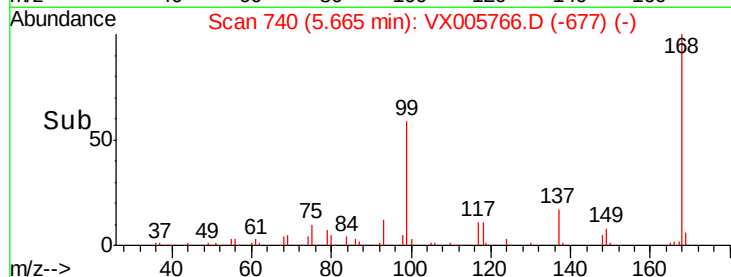
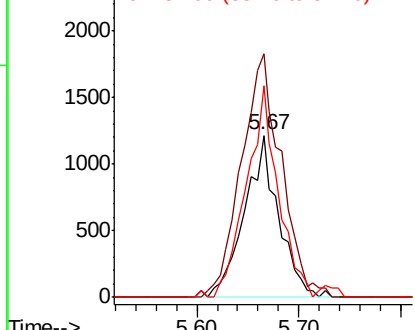
#31
Cyclohexane
Concen: 1.337 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

Instrument :
MSVOA_X
ClientSampleId :
CL-02-110118-A

Tot Ion: 56 Resp: 2839
Ion Ratio Lower Upper
56 100
69 150.5 22.6 34.0#
84 130.9 62.7 94.1#

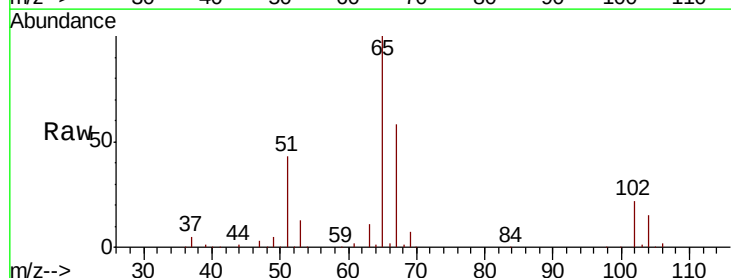


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

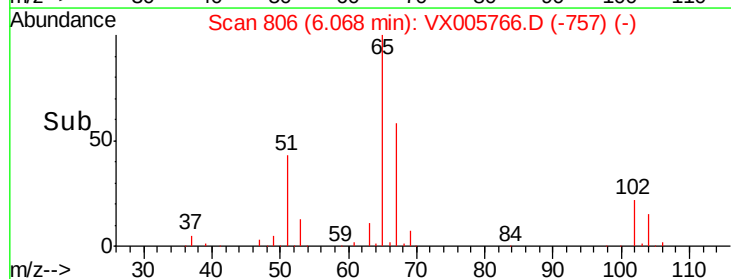
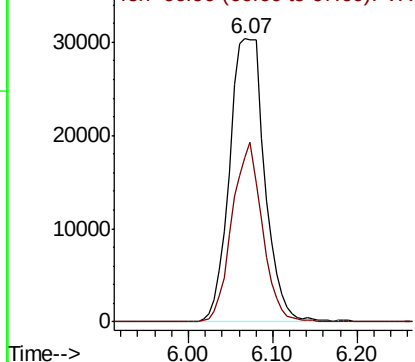


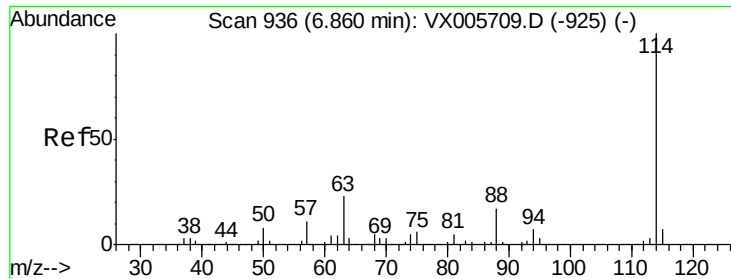
#33
1,2-Dichloroethane-d4
Concen: 54.140 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

Tgt Ion: 65 Resp: 86014
Ion Ratio Lower Upper
65 100
67 54.4 0.0 105.0



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

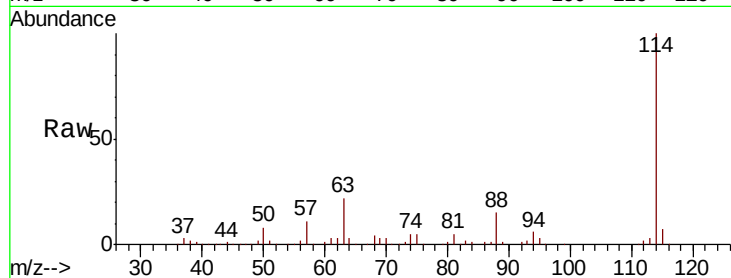




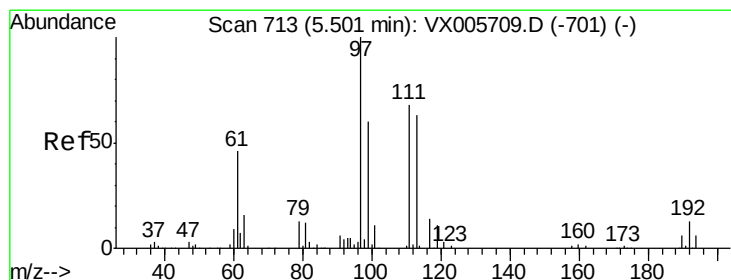
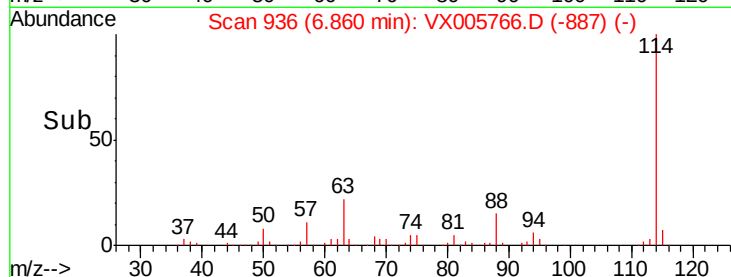
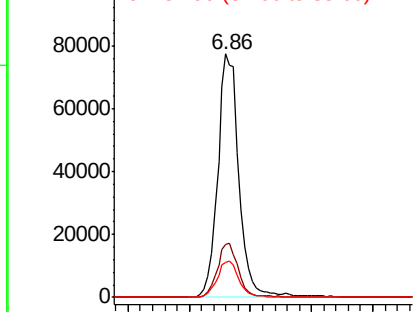
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-110118-A

Tot Ion:114 Resp: 187941
 Ion Ratio Lower Upper
 114 100
 63 21.8 0.0 42.8
 88 14.5 0.0 31.2

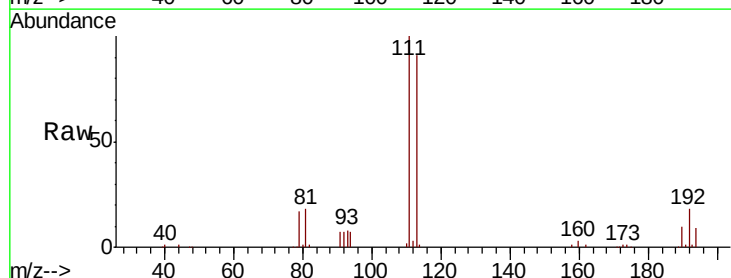


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

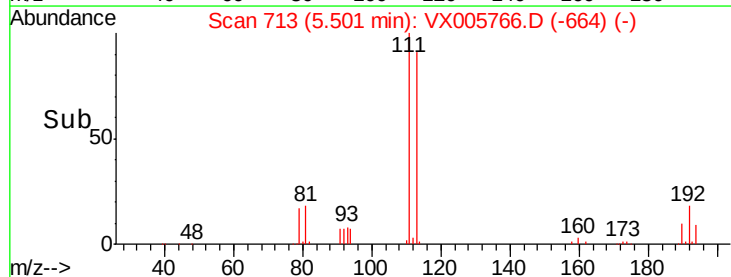
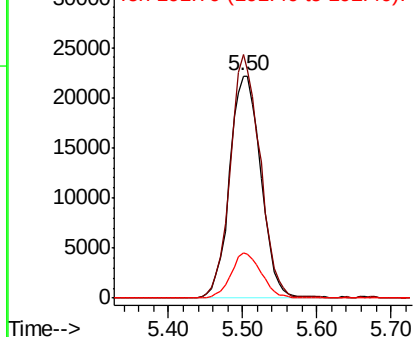


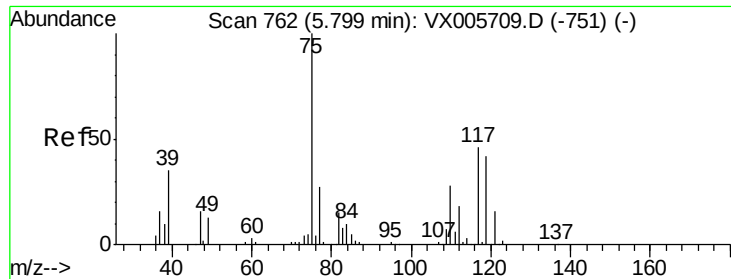
#35
 Dibromofluoromethane
 Concen: 50.182 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Tgt Ion:113 Resp: 65303
 Ion Ratio Lower Upper
 113 100
 111 104.5 82.3 123.5
 192 19.7 17.9 26.9



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

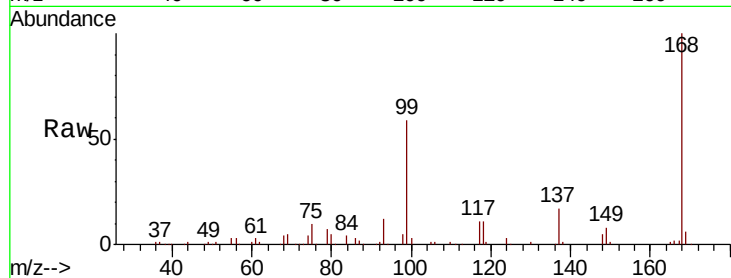




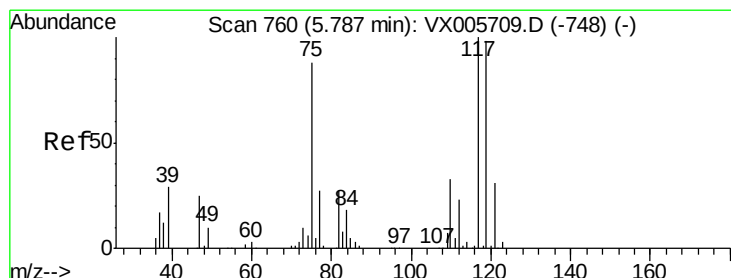
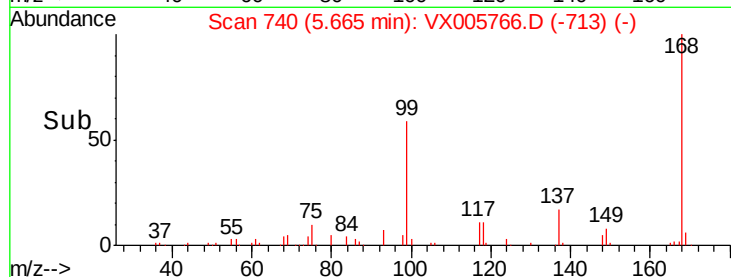
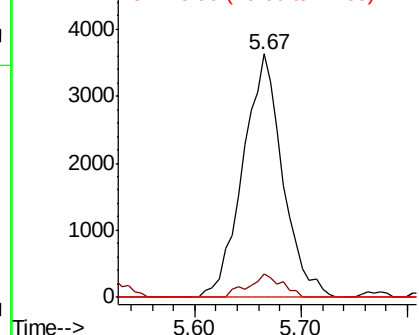
#36
 1,1-Dichloropropene
 Concen: 4.741 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-110118-A

Tot Ion	75	Resp	9493
Ion Ratio	Lower	Upper	
75	100		
110	7.9	17.4	52.2#
77	0.0	25.8	38.6#

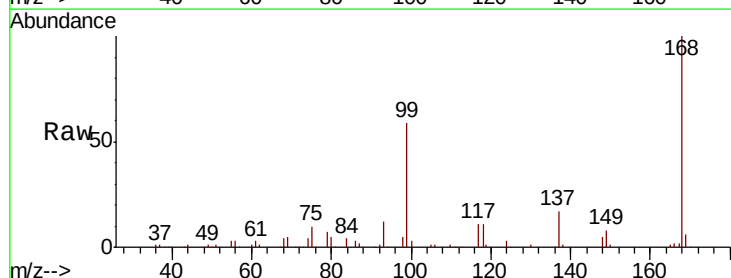


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

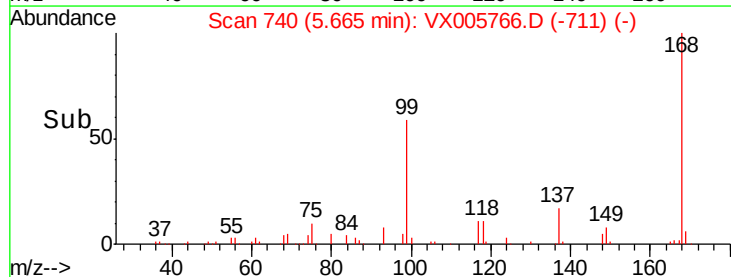
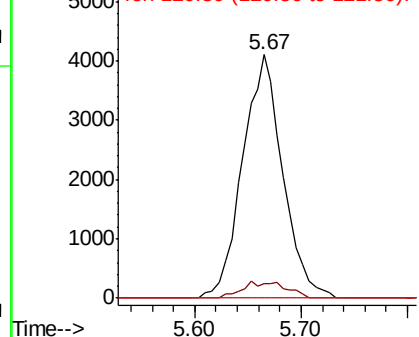


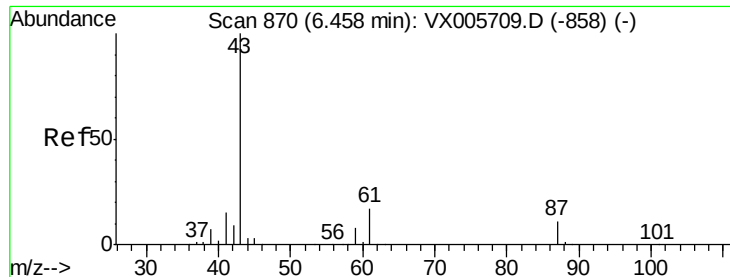
#38
 Carbon Tetrachloride
 Concen: 5.981 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Tgt Ion	117	Resp	10820
Ion Ratio	Lower	Upper	
117	100		
119	6.2	78.1	117.1#
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





#43

Isopropyl Acetate

Concen: 23.208 ug/l

RT: 6.47 min Scan# 872

Delta R.T. 0.01 min

Lab File: VX005766.D

Acq: 02 Nov 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

CL-02-110118-A

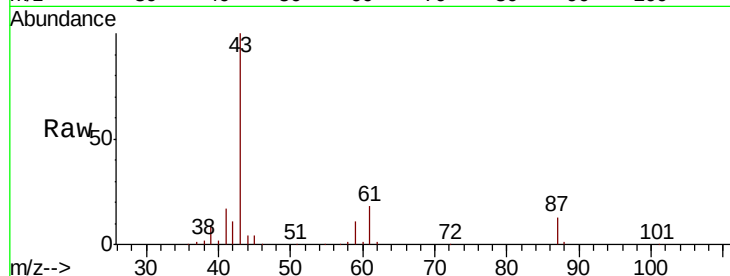
Tot Ion: 43 Resp: 86052

Ion Ratio Lower Upper

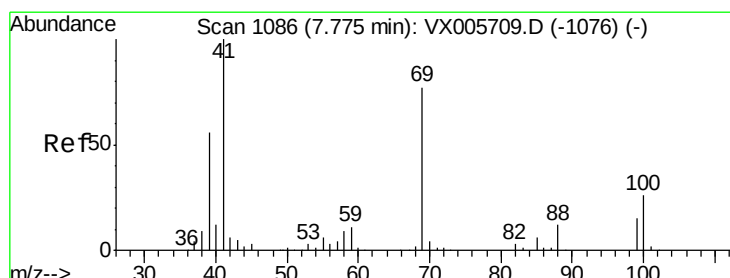
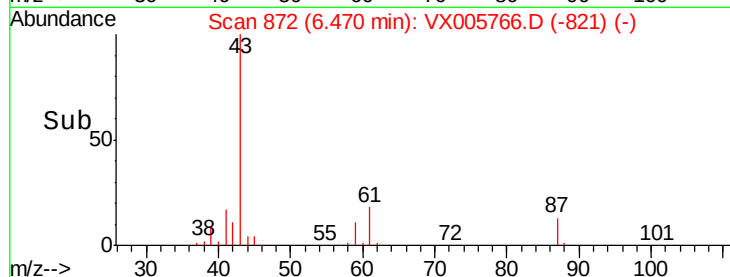
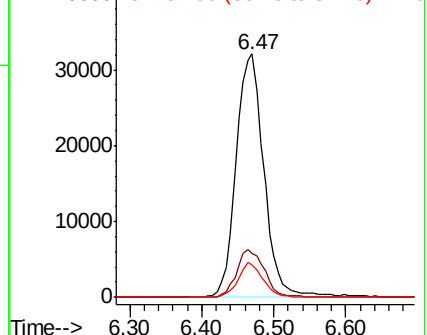
43 100

61 19.7 14.6 22.0

87 12.5 9.6 14.4



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: 2.384 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005766.D

Acq: 02 Nov 2018 19:38

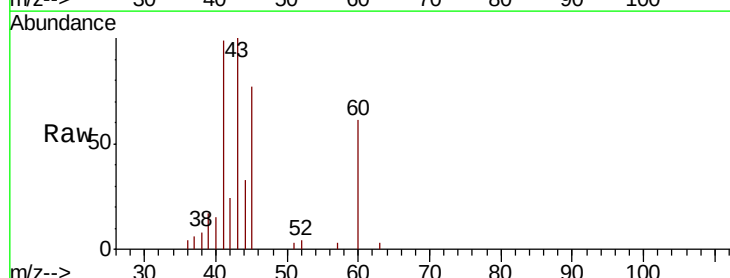
Tgt Ion: 41 Resp: 4278

Ion Ratio Lower Upper

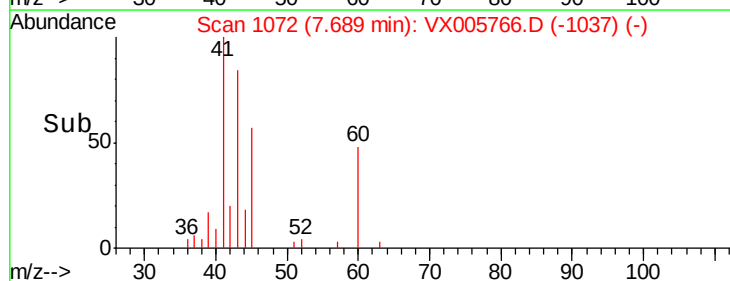
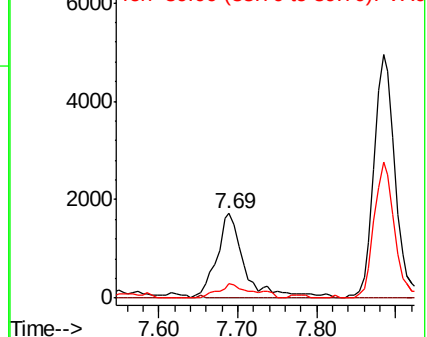
41 100

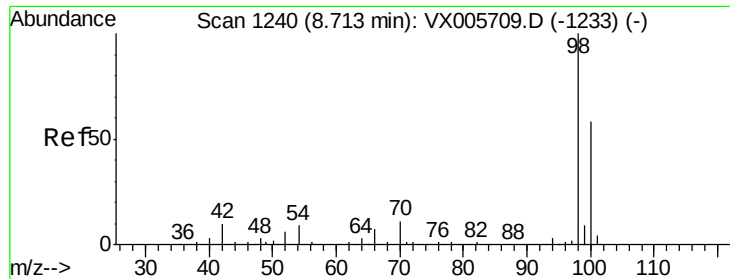
69 0.0 63.2 94.8#

39 19.7 42.2 63.2#



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

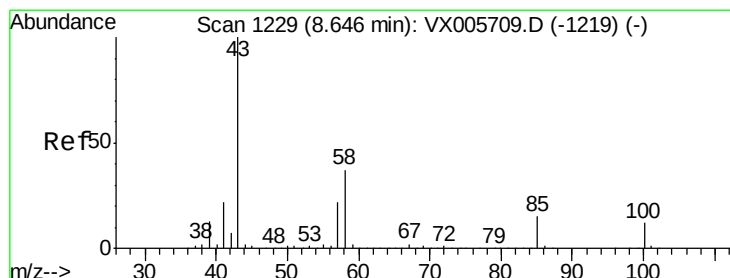
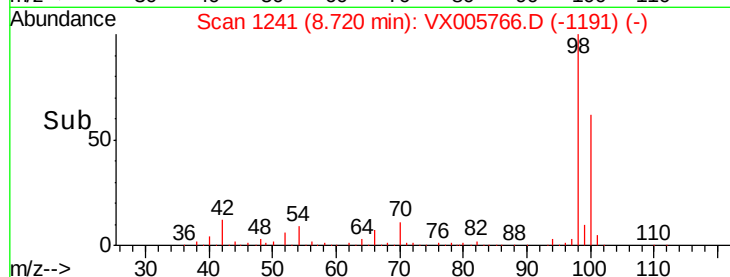
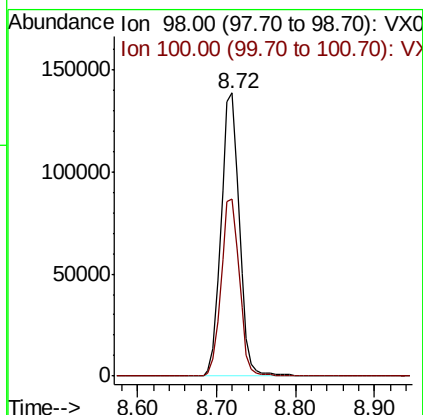
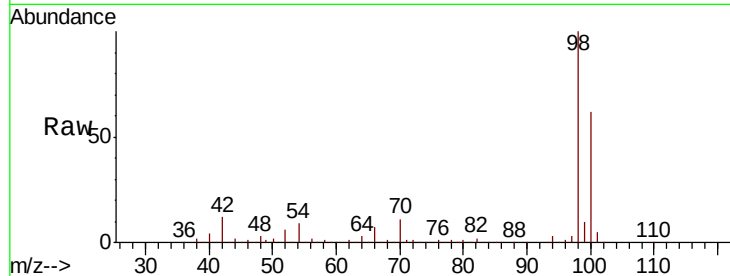




#50
Toluene-d8
Concen: 49.120 ug/l
RT: 8.72 min Scan# 1241
Delta R.T. 0.01 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

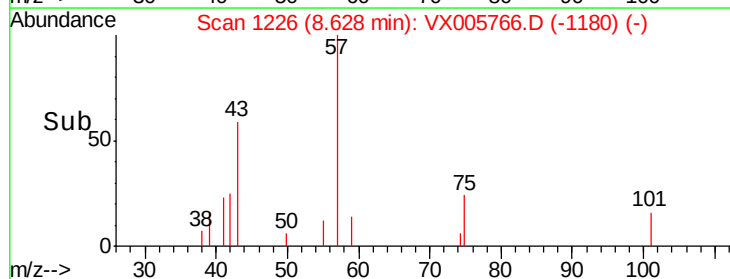
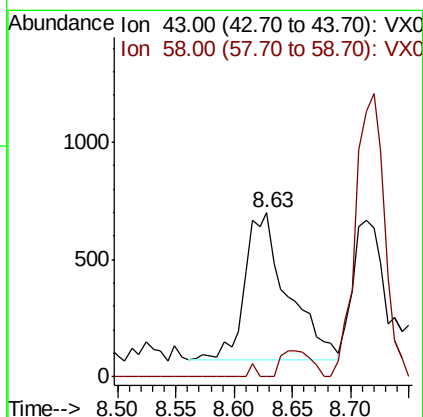
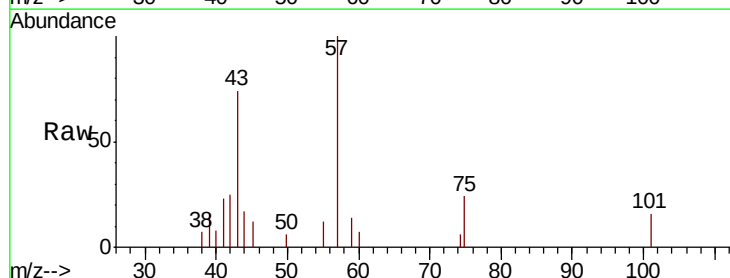
Instrument :
MSVOA_X
ClientSampleId :
CL-02-110118-A

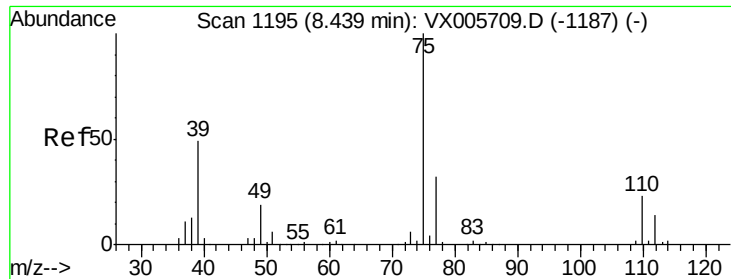
Tot Ion: 98 Resp: 224192
Ion Ratio Lower Upper
98 100
100 62.2 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.636 ug/l
RT: 8.63 min Scan# 1226
Delta R.T. -0.02 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

Tgt Ion: 43 Resp: 1609
Ion Ratio Lower Upper
43 100
58 12.5 29.7 44.5#



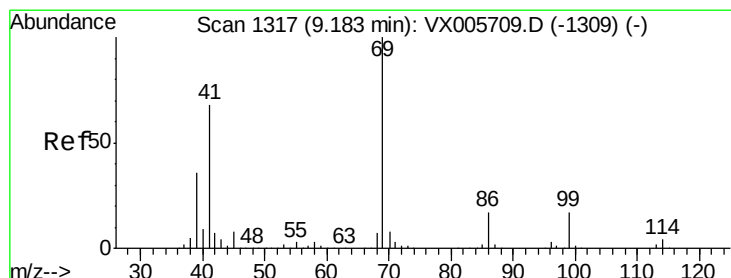
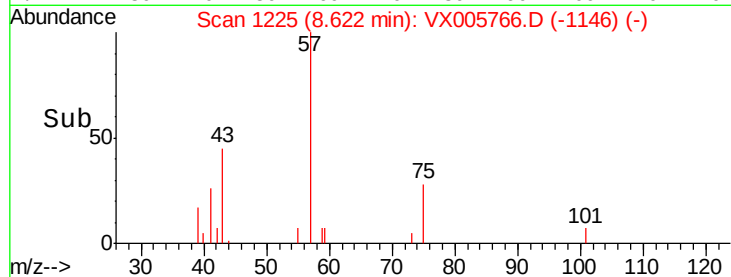
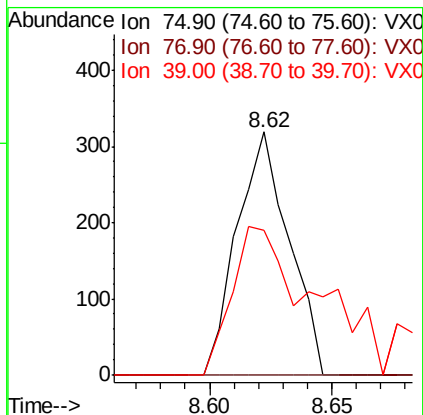
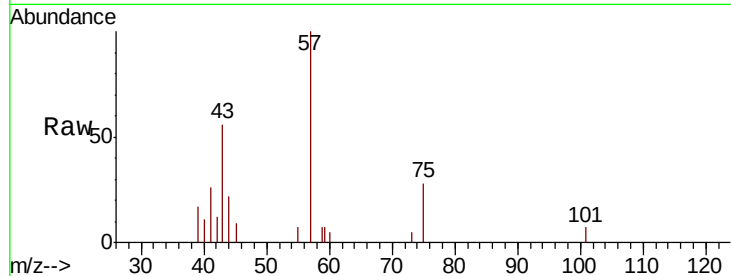


#54

cis-1,3-Dichloropropene
 Concen: 0.222 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-110118-A

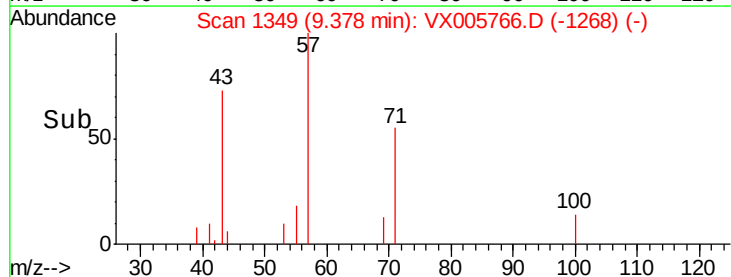
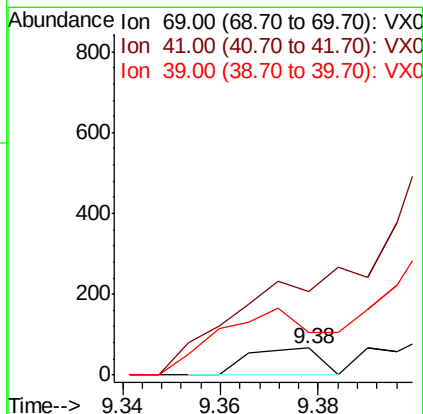
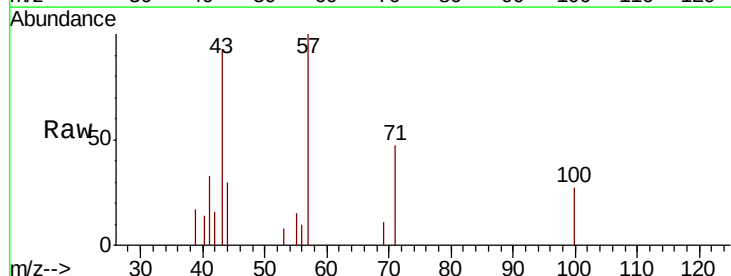
Tot Ion: 75 Resp: 471
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 59.6 38.2 57.2#

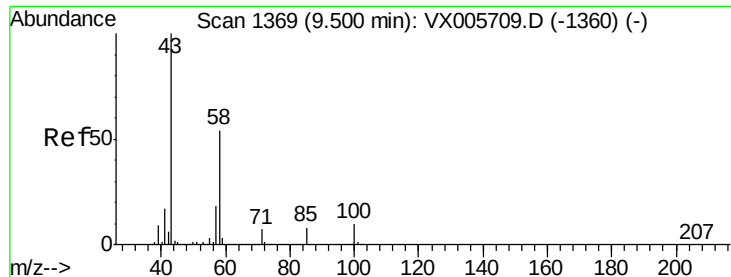


#56

Ethyl methacrylate
 Concen: 2.498 ug/l
 RT: 9.38 min Scan# 1349
 Delta R.T. 0.20 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Tgt Ion: 69 Resp: 67
 Ion Ratio Lower Upper
 69 100
 41 0.0 57.0 85.6#
 39 368.7 28.3 42.5#

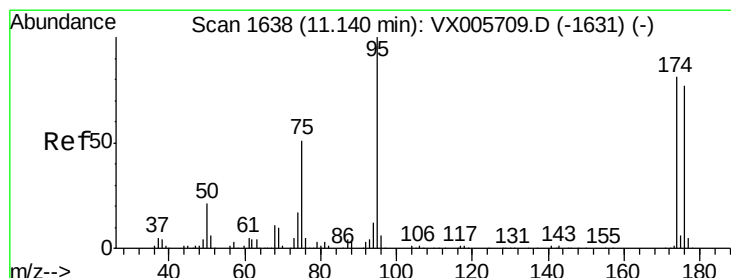
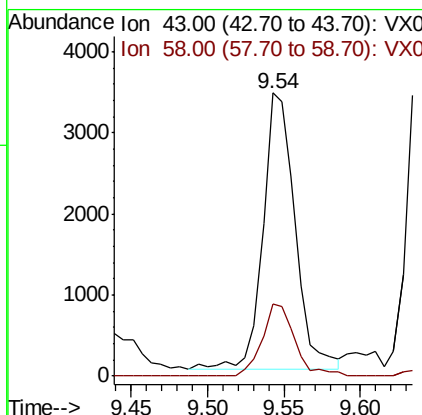
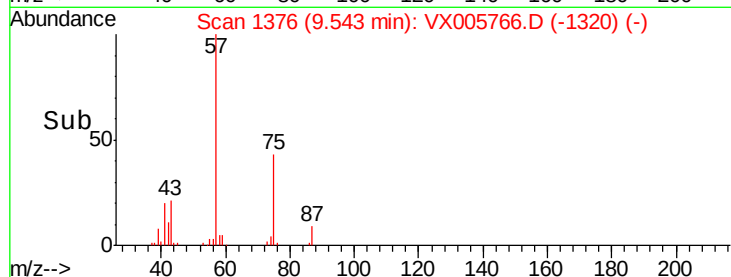
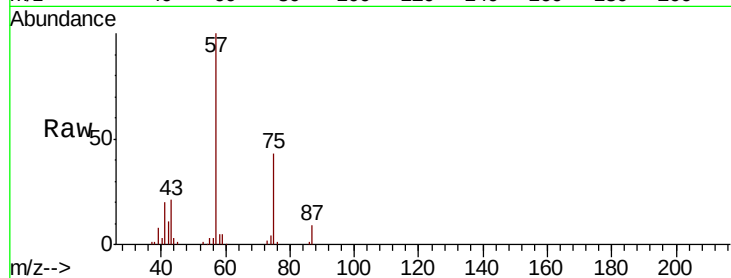




#59
2-Hexanone
Concen: 2.436 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.04 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

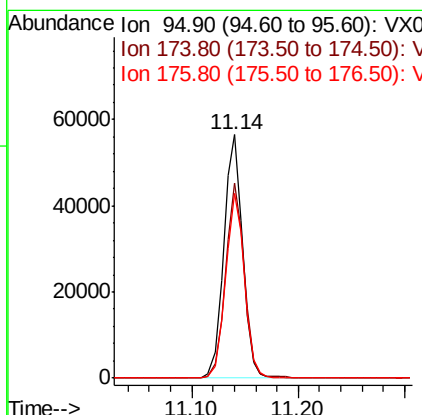
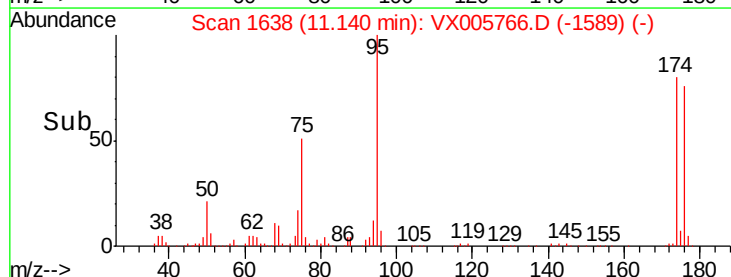
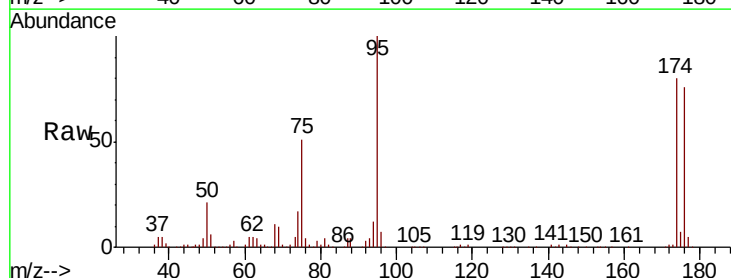
Instrument :
MSVOA_X
ClientSampleId :
CL-02-110118-A

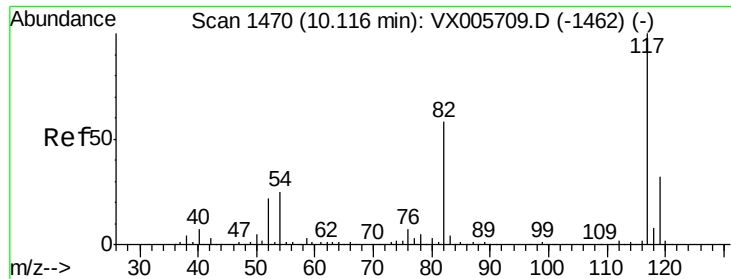
Tot Ion: 43 Resp: 5011
Ion Ratio Lower Upper
43 100
58 26.6 25.9 77.8



#62
4-Bromofluorobenzene
Concen: 41.466 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

Tgt Ion: 95 Resp: 69849
Ion Ratio Lower Upper
95 100
174 79.8 0.0 184.4
176 76.0 0.0 177.4

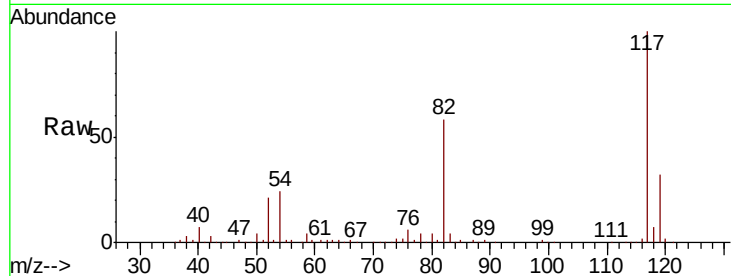




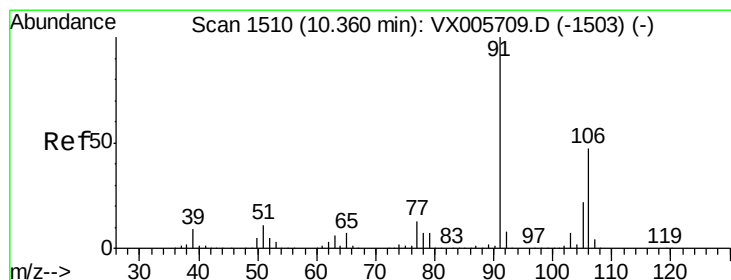
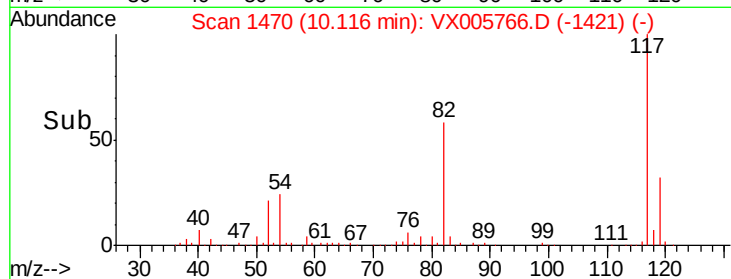
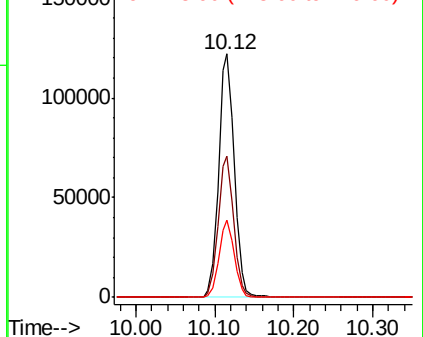
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

Instrument :
MSVOA_X
ClientSampleId :
CL-02-110118-A

Tot Ion:117 Resp: 168430
Ion Ratio Lower Upper
117 100
82 58.1 44.1 66.1
119 31.7 26.2 39.2

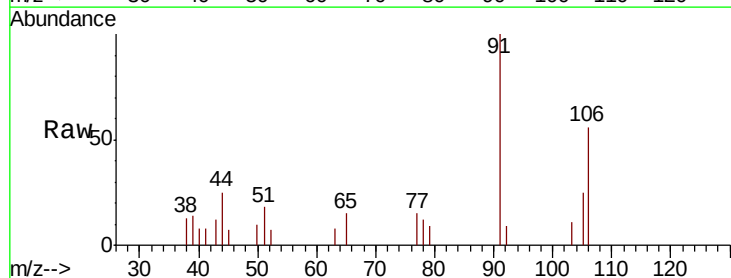


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

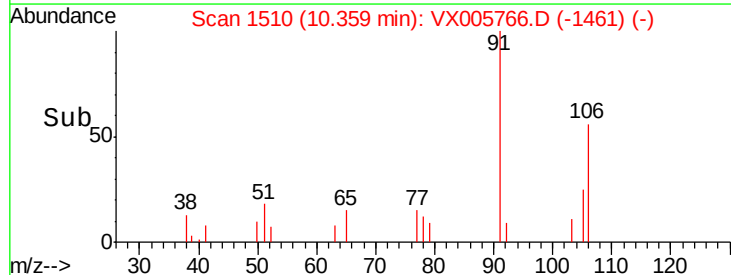
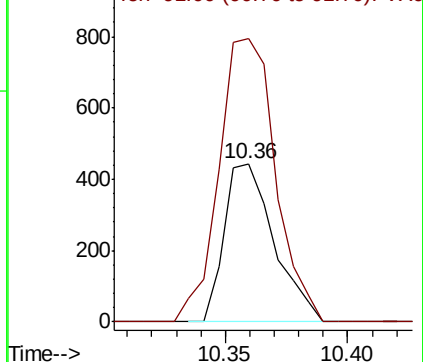


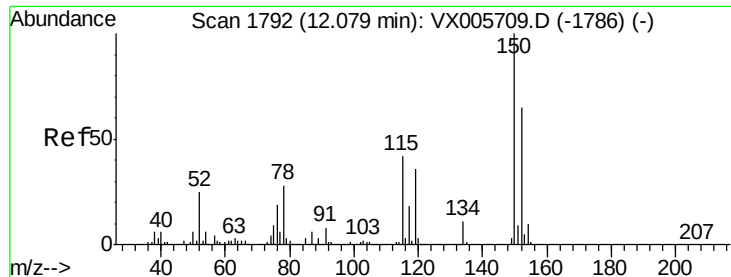
#68
m/p-Xylenes
Concen: 0.275 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005766.D
Acq: 02 Nov 2018 19:38

Tgt Ion:106 Resp: 625
Ion Ratio Lower Upper
106 100
91 204.2 164.2 246.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005766.D

Acq: 02 Nov 2018 19:38

Instrument :

MSVOA_X

ClientSampleId :

CL-02-110118-A

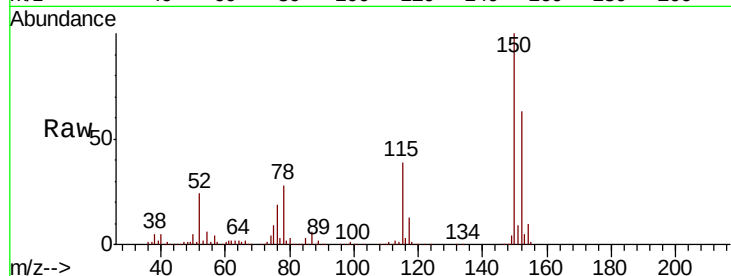
Tot Ion:152 Resp: 68824

Ion Ratio Lower Upper

152 100

115 60.6 39.4 118.1

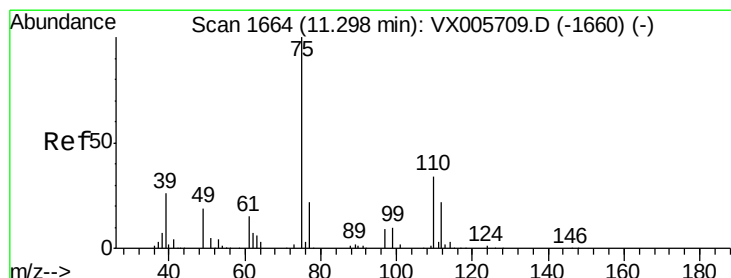
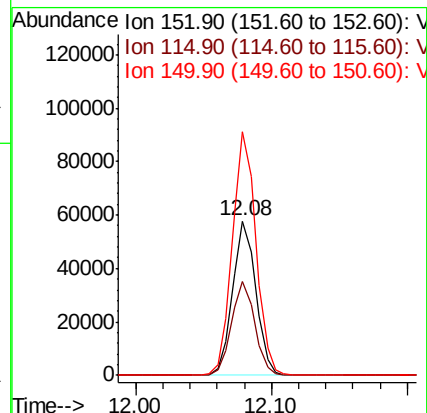
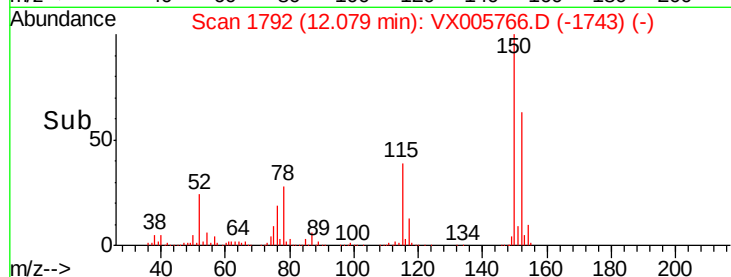
150 159.4 0.0 346.4



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: 21.697 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005766.D

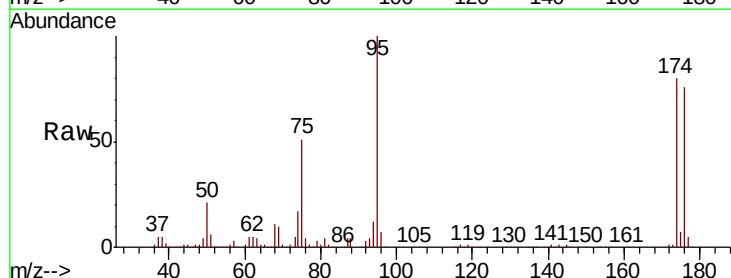
Acq: 02 Nov 2018 19:38

Tgt Ion: 75 Resp: 37192

Ion Ratio Lower Upper

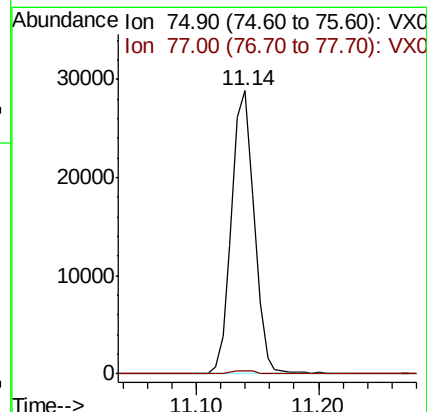
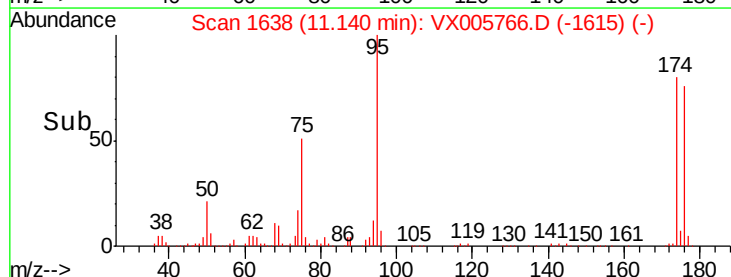
75 100

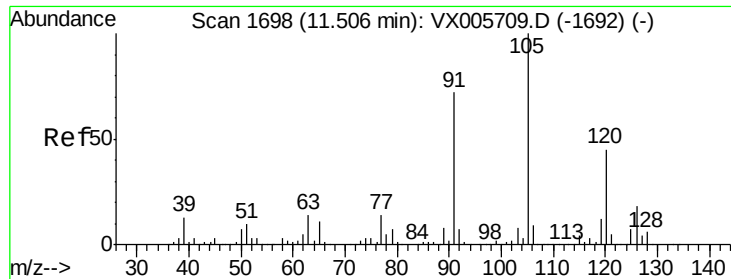
77 1.4 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

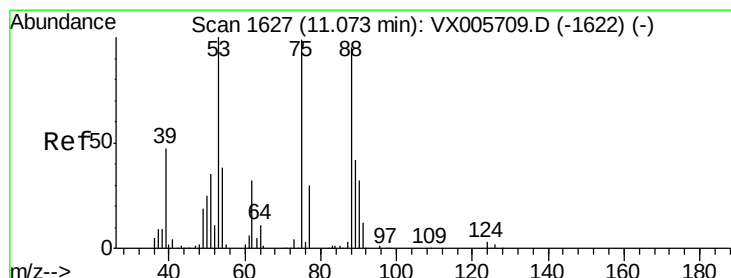
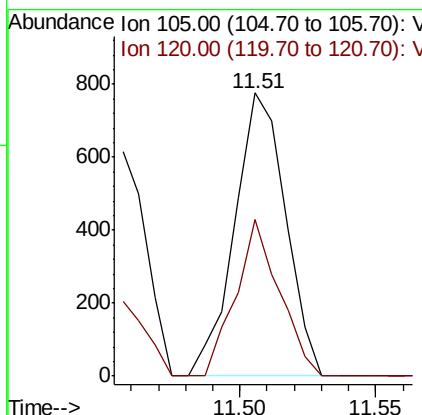
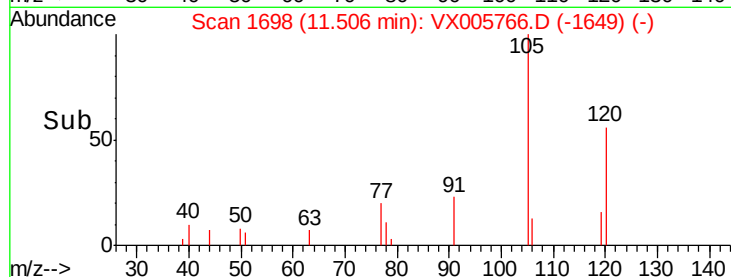
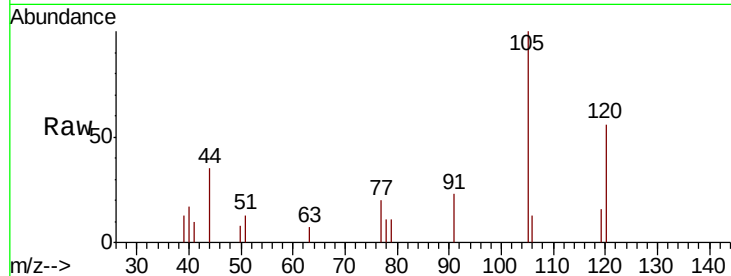




#80
 1,3,5-Trimethylbenzene
 Concen: 0.262 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

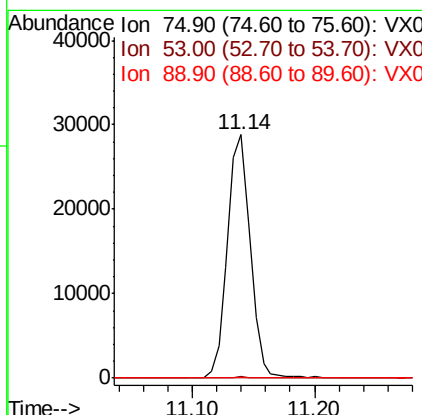
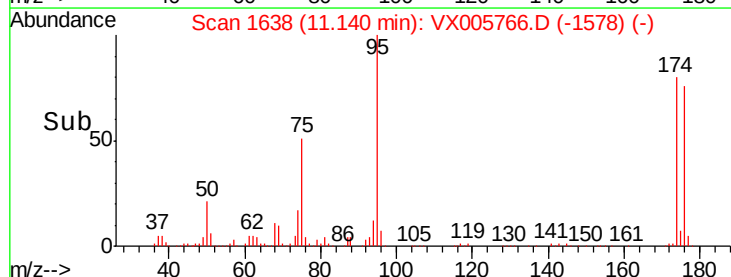
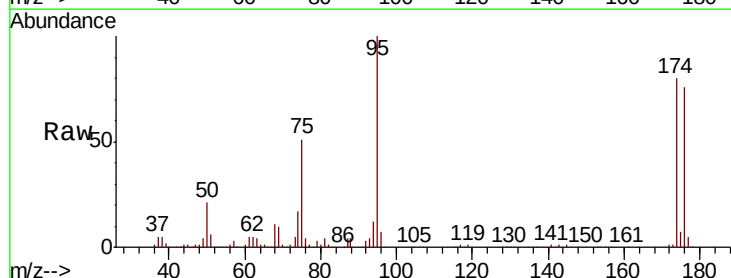
Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-110118-A

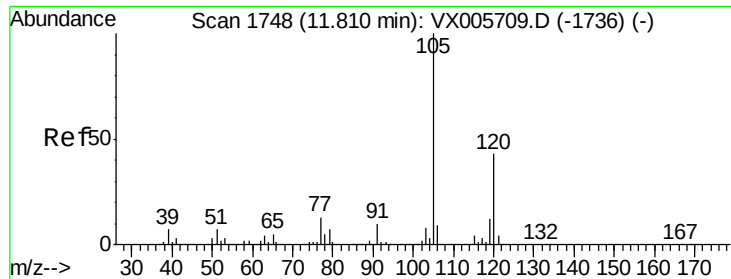
Tot Ion:105 Resp: 1009
 Ion Ratio Lower Upper
 105 100
 120 47.5 24.1 72.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 70.102 ug/l
 RT: 11.14 min Scan# 1638
 Delta R.T. 0.07 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Tgt Ion: 75 Resp: 37192
 Ion Ratio Lower Upper
 75 100
 53 0.5 80.2 120.2#
 89 0.0 39.8 59.8#

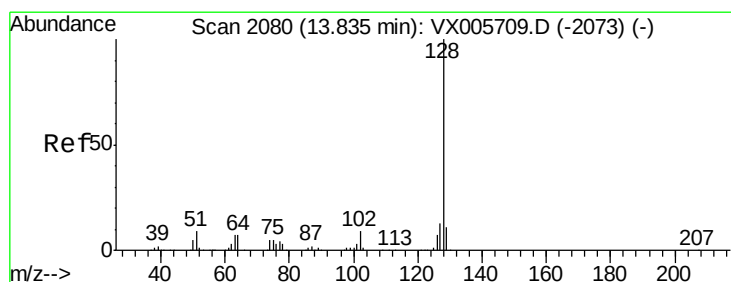
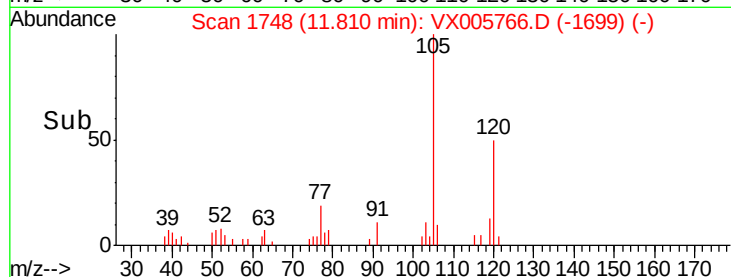
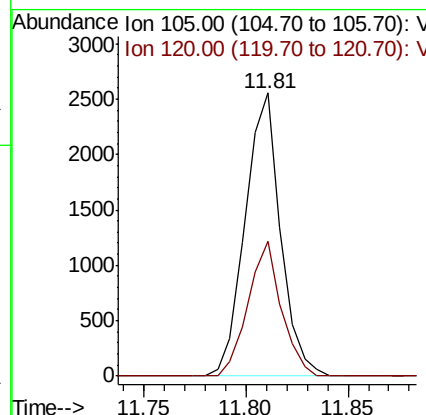
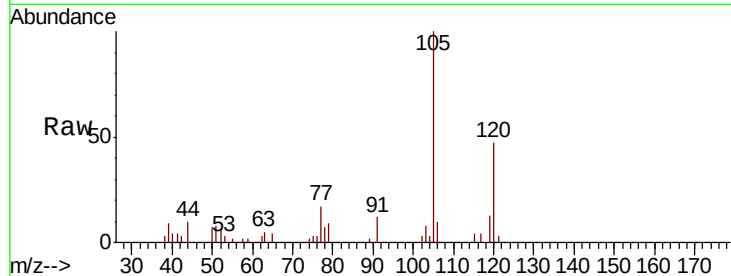




#84
 1,2,4-Trimethylbenzene
 Concen: 0.788 ug/l
 RT: 11.81 min Scan# 1748
 Delta R.T. -0.00 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Instrument :
 MSVOA_X
 ClientSampleId :
 CL-02-110118-A

Tot Ion:105 Resp: 3068
 Ion Ratio Lower Upper
 105 100
 120 44.7 22.4 67.0



#95
 Naphthalene
 Concen: 1.260 ug/l
 RT: 13.83 min Scan# 2080
 Delta R.T. -0.00 min
 Lab File: VX005766.D
 Acq: 02 Nov 2018 19:38

Tgt Ion:128 Resp: 6046
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.4 15.6
 129 11.7 8.7 13.1

