

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091718\
 Data File : VX004639.D
 Acq On : 18 Sep 2018 00:25
 Operator : JC/MD
 Sample : PB112894ZHE#14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 18 00:58:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 12 02:17:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	239217	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	322556	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	314090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189289	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	162370	52.64	ug/l	0.00
Spiked Amount			Recovery	=	105.28%	
35) Dibromofluoromethane	5.50	113	140525	47.61	ug/l	0.00
Spiked Amount			Recovery	=	95.22%	
50) Toluene-d8	8.71	98	455648	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	
62) 4-Bromofluorobenzene	11.14	95	159093	45.03	ug/l	0.00
Spiked Amount			Recovery	=	90.06%	

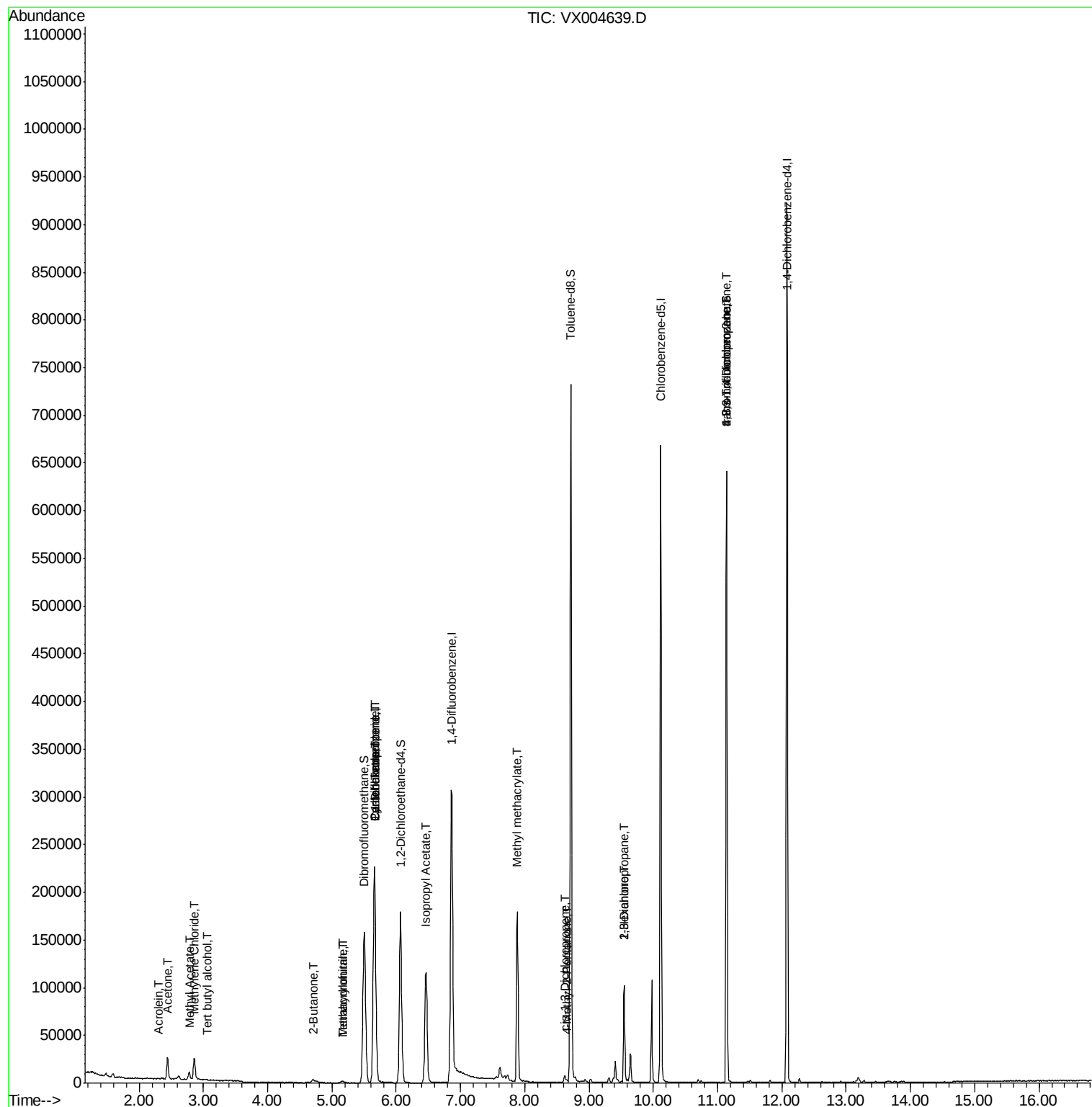
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.62	94	48	Below Cal	#	3
11) Tert butyl alcohol	3.06	59	495	0.67	ug/l #	72
13) Acrolein	2.30	56	120	0.41	ug/l #	52
16) Acetone	2.44	43	24176	16.06	ug/l	98
18) Methyl Acetate	2.78	43	10049	2.38	ug/l	100
20) Methylene Chloride	2.85	84	10576	3.42	ug/l	94
25) 2-Butanone	4.70	43	6489	2.71	ug/l	94
29) Tetrahydrofuran	5.17	42	1557	1.08	ug/l #	87
31) Cyclohexane	5.66	56	3705	0.83	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	14921	3.81	ug/l #	49
38) Carbon Tetrachloride	5.66	117	18862	4.93	ug/l #	16
41) Methacrylonitrile	5.17	41	870	0.35	ug/l #	46
43) Isopropyl Acetate	6.46	43	156654	26.48	ug/l	100
48) Methyl methacrylate	7.88	41	15792	5.39	ug/l #	41
51) 4-Methyl-2-Pentanone	8.65	43	1449	0.35	ug/l #	64
54) cis-1,3-Dichloropropene	8.62	75	1078	0.27	ug/l #	65
57) 1,3-Dichloropropane	9.55	76	964	0.20	ug/l #	43
59) 2-Hexanone	9.55	43	11231	3.51	ug/l #	58
76) 1,2,3-Trichloropropane	11.14	75	74138	19.47	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	74138	62.05	ug/l #	10

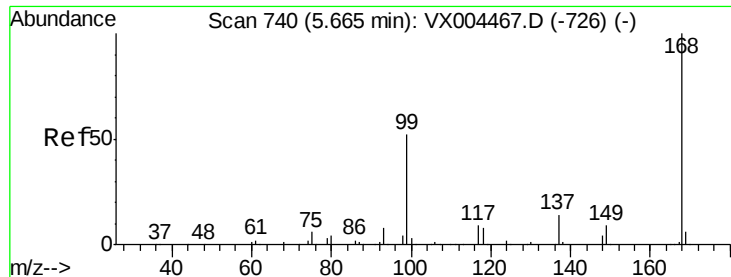
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 12 02:17:23 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

Instrument :

MSVOA_X

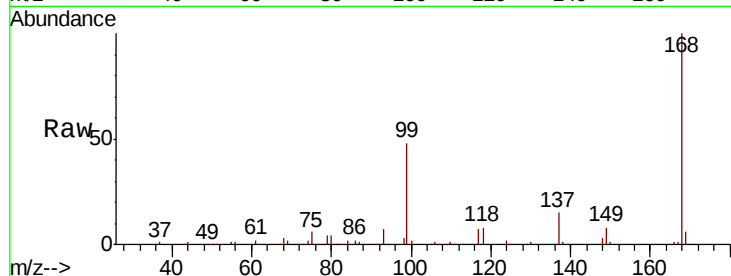
ClientSampleId :

Tot Ion:168 Resp: 239217

Ion Ratio Lower Upper

168 100

99 48.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

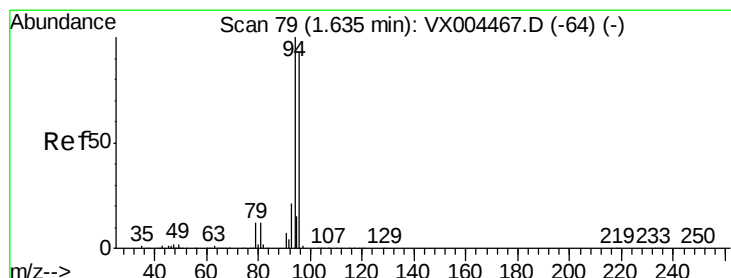
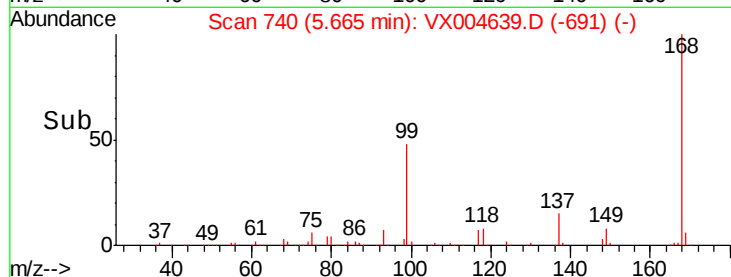
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX004639.D

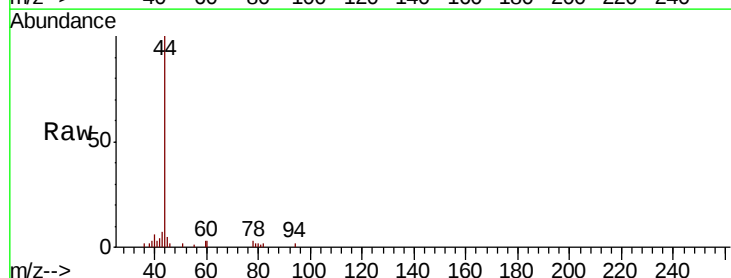
Acq: 18 Sep 2018 00:25

Tgt Ion: 94 Resp: 48

Ion Ratio Lower Upper

94 100

96 0.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.62

80

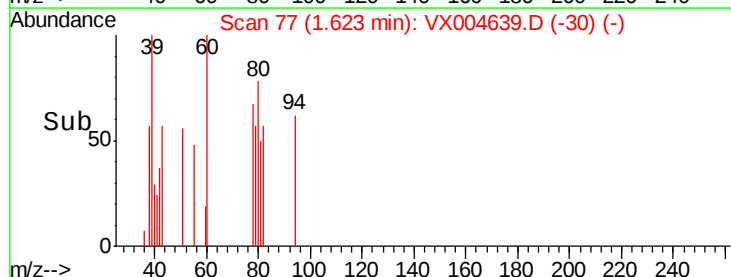
60

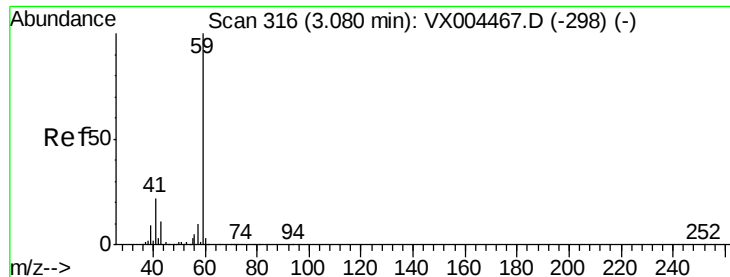
40

20

0

Time--> 1.61 1.62 1.63



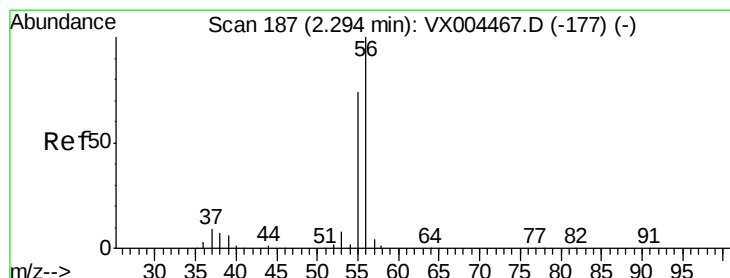
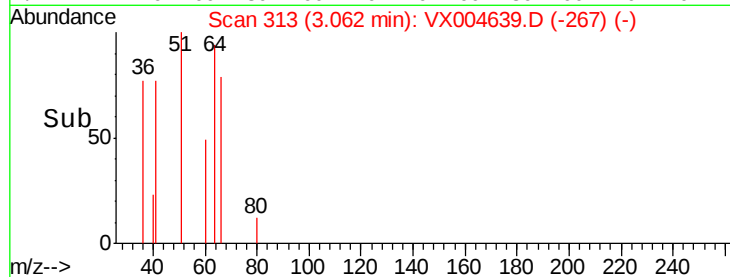
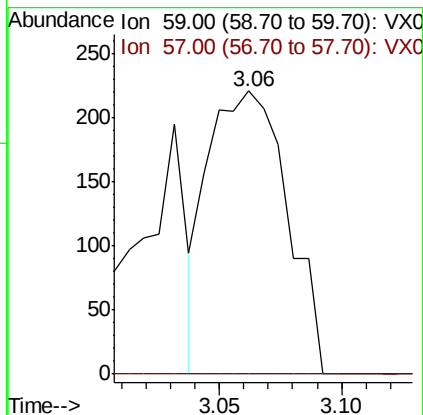
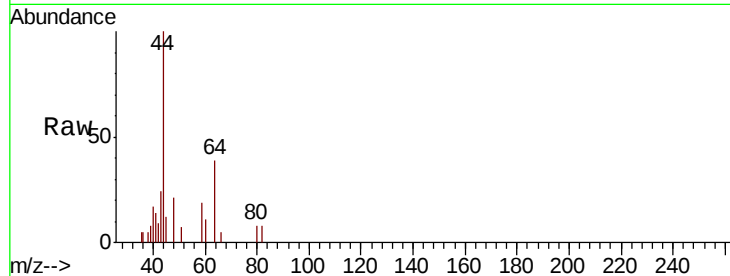


#11

Tert butvl alcohol
Concen: 0.67 ug/l
RT: 3.06 min Scan# 313
Delta R.T. -0.02 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

Instrument :
MSVOA_X
ClientSampled :

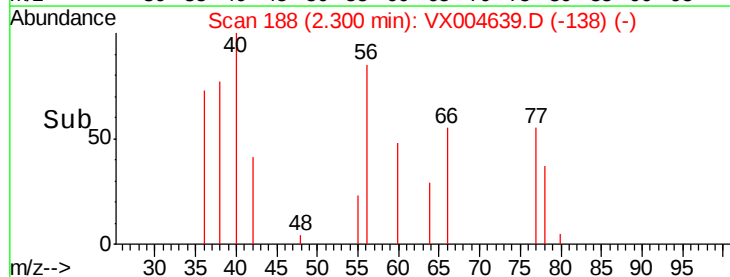
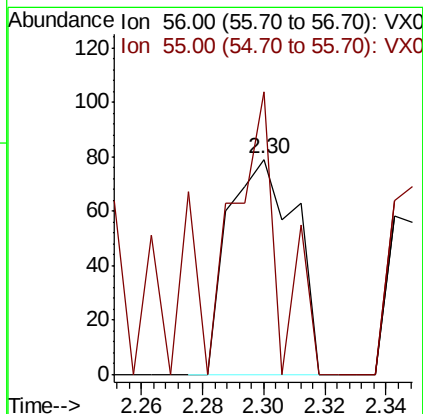
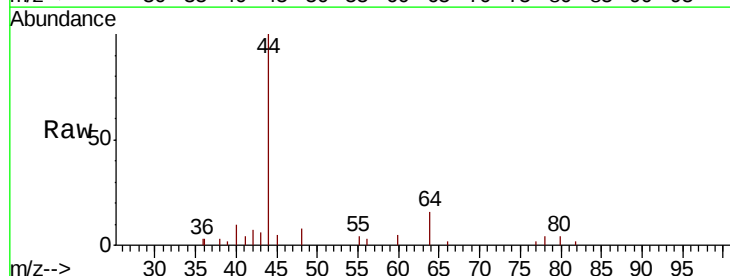
Tot Ion: 59 Resp: 495
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

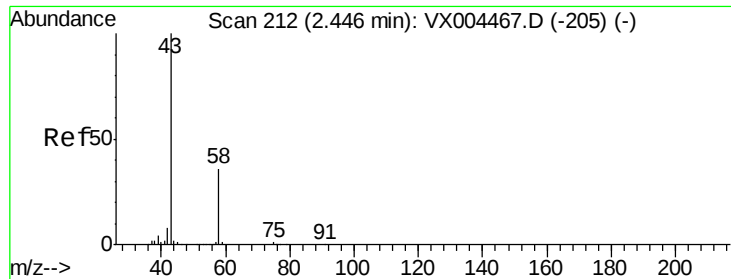


#13

Acrolein
Concen: 0.41 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

Tgt Ion: 56 Resp: 120
Ion Ratio Lower Upper
56 100
55 107.5 54.7 82.1#





#16

Acetone

Concen: 16.06 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

Instrument :

MSVOA_X

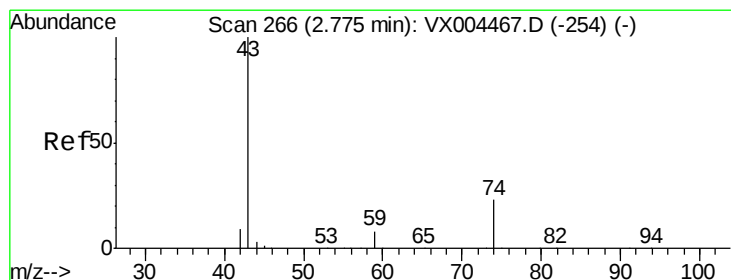
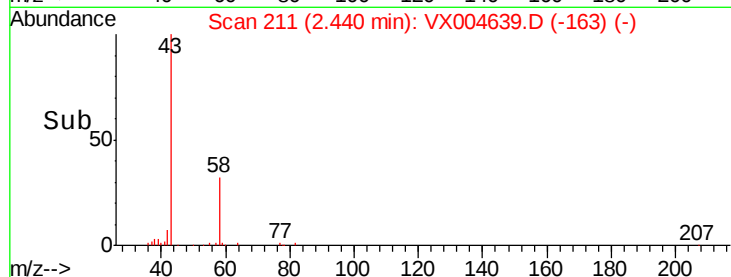
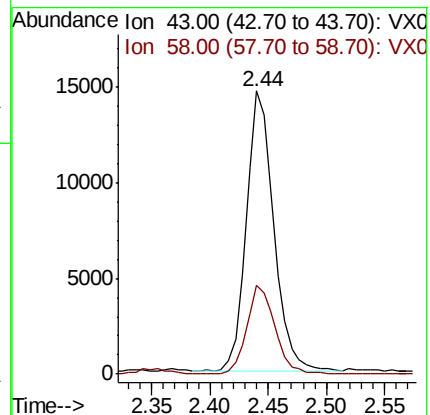
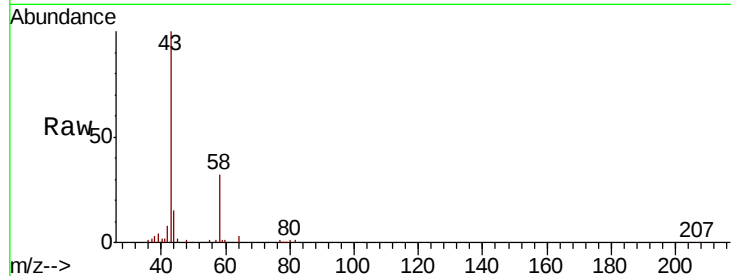
ClientSampleId :

Tot Ion: 43 Resp: 24176

Ion Ratio Lower Upper

43 100

58 31.9 26.2 39.4



#18

Methyl Acetate

Concen: 2.38 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX004639.D

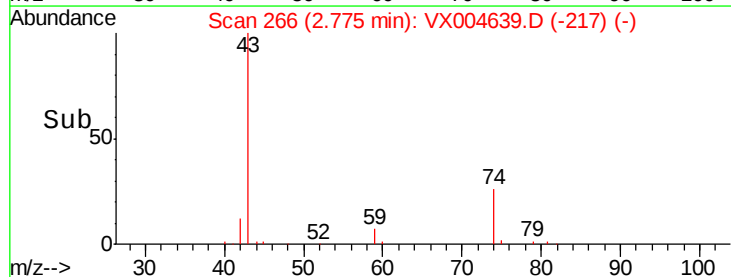
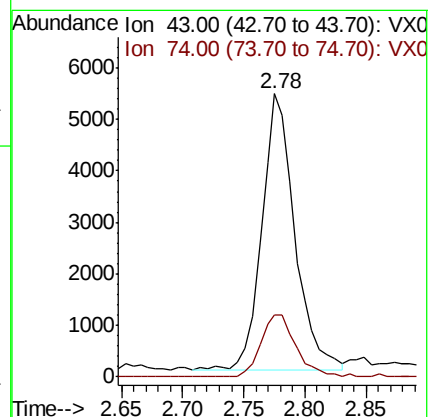
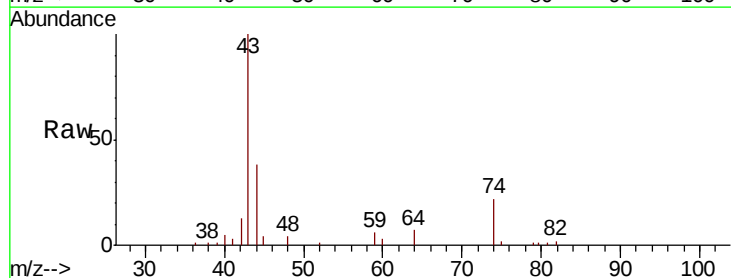
Acq: 18 Sep 2018 00:25

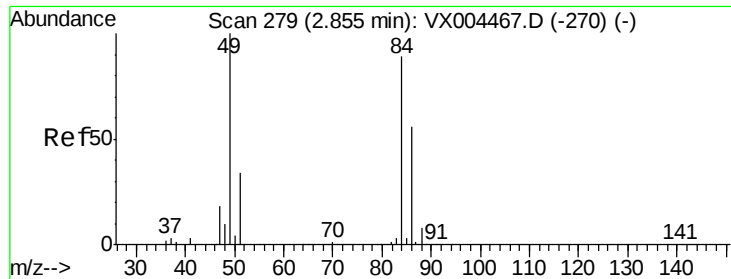
Tgt Ion: 43 Resp: 10049

Ion Ratio Lower Upper

43 100

74 24.1 19.4 29.2

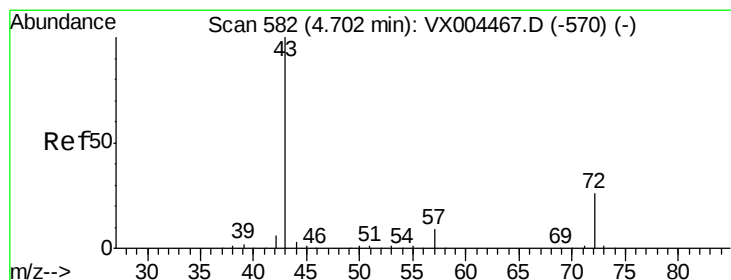
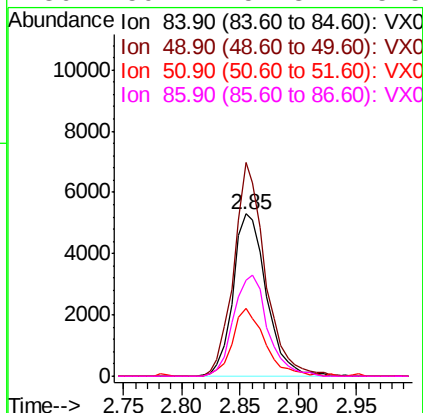
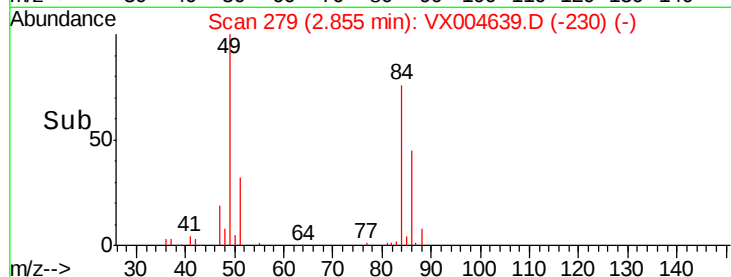
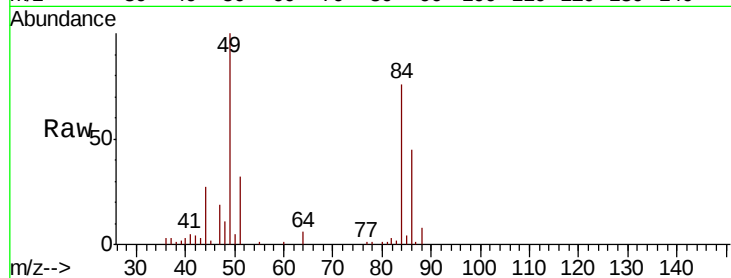




#20
Methvlene Chloride
Concen: 3.42 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.00 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

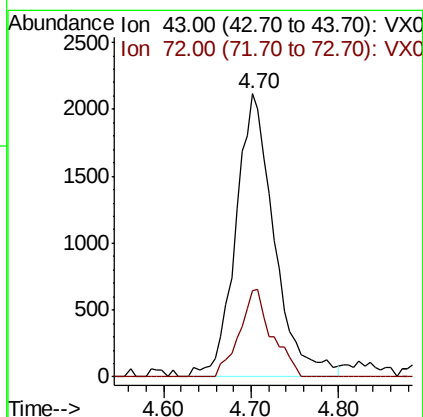
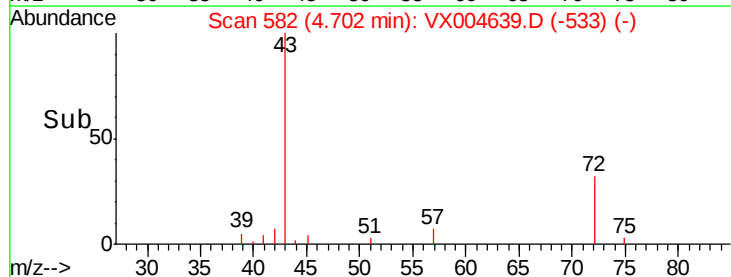
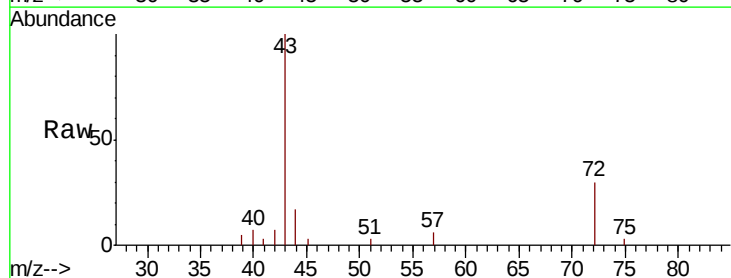
Instrument :
MSVOA_X
ClientSampled :

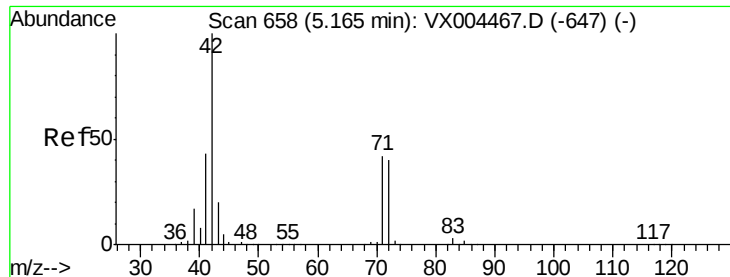
Tot Ion:	84	Resp:	10576
Ion	Ratio	Lower	Upper
84	100		
49	131.7	101.2	151.8
51	41.7	29.5	44.3
86	59.1	52.3	78.5



#25
2-Butanone
Concen: 2.71 ug/l
RT: 4.70 min Scan# 582
Delta R.T. -0.00 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

Tgt Ion:	43	Resp:	6489
Ion	Ratio	Lower	Upper
43	100		
72	30.4	22.0	33.0

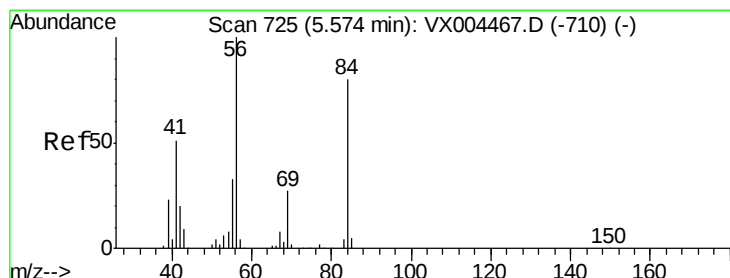
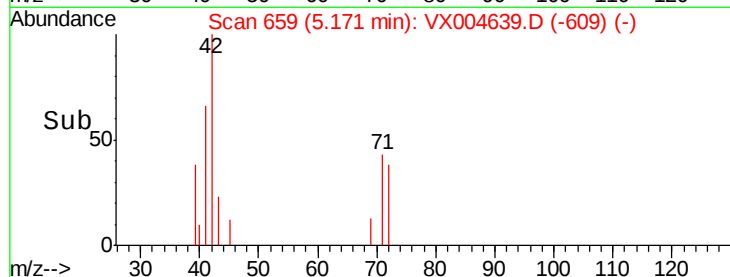
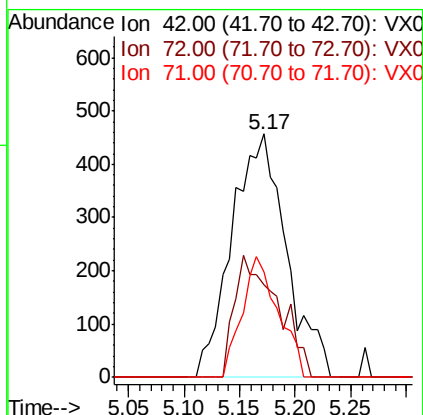
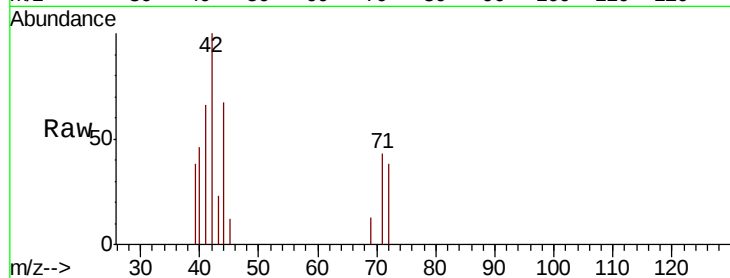




#29
Tetrahydrofuran
Concen: 1.08 ug/l
RT: 5.17 min Scan# 659
Delta R.T. 0.01 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

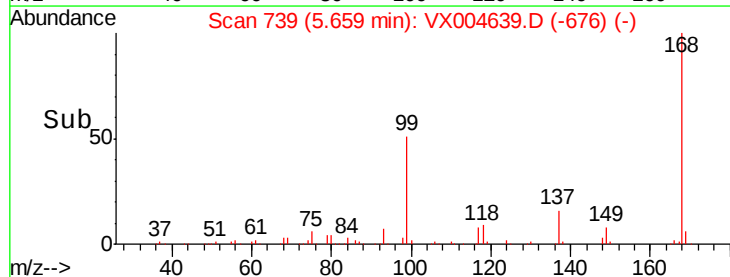
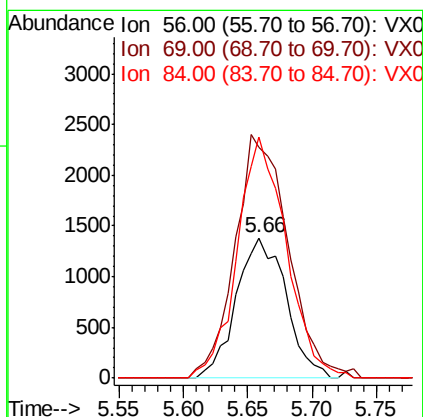
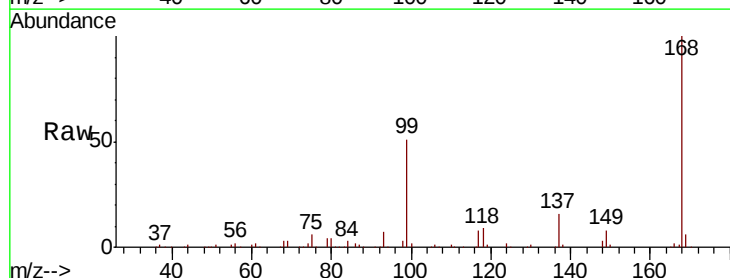
Instrument :
MSVOA_X
ClientSampleId :

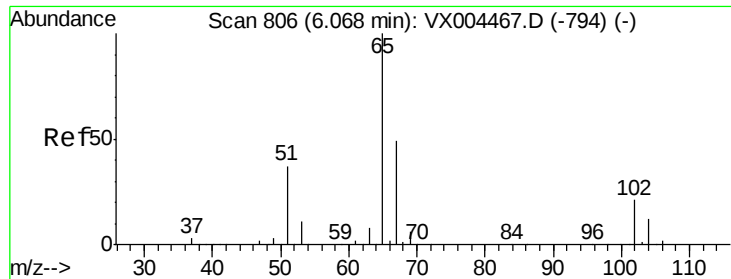
Tot Ion: 42 Resp: 1557
Ion Ratio Lower Upper
42 100
72 39.8 37.4 56.0
71 32.9 34.5 51.7#



#31
Cyclohexane
Concen: 0.83 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.09 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

Tgt Ion: 56 Resp: 3705
Ion Ratio Lower Upper
56 100
69 164.6 25.4 38.2#
84 172.0 71.4 107.2#





#33

1,2-Dichloroethane-d4

Concen: 52.64 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

Instrument :

MSVOA_X

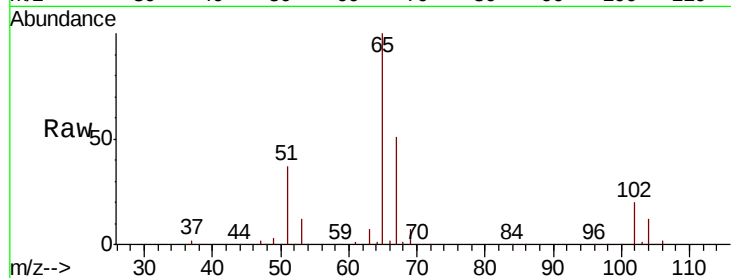
ClientSampleId :

Tot Ion: 65 Resp: 162370

Ion Ratio Lower Upper

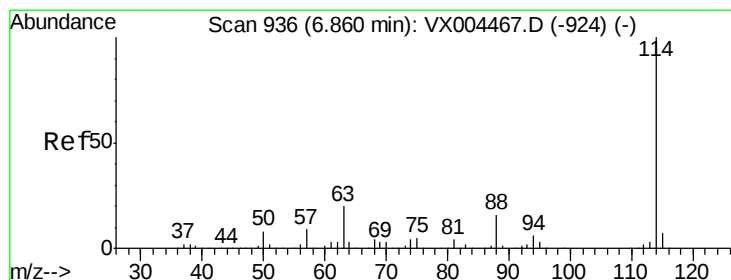
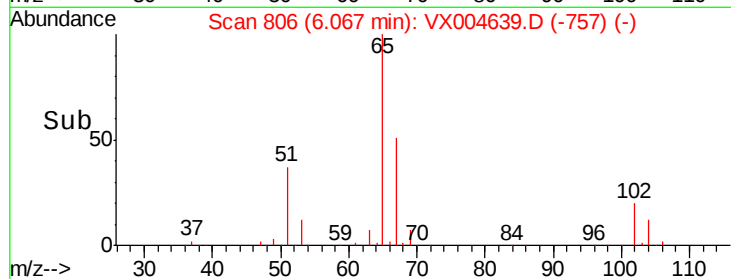
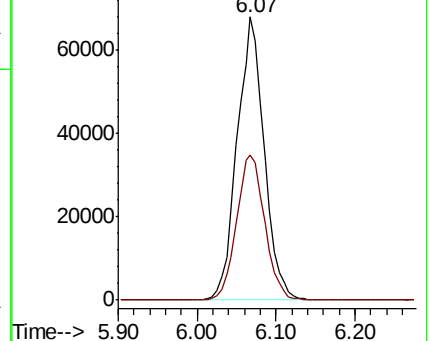
65 100

67 53.4 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 937

Delta R.T. 0.01 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

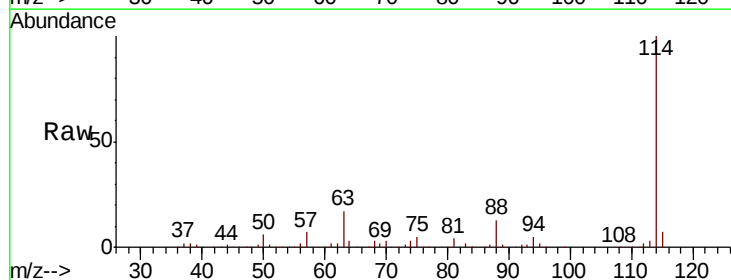
Tgt Ion: 114 Resp: 322556

Ion Ratio Lower Upper

114 100

63 16.8 0.0 39.0

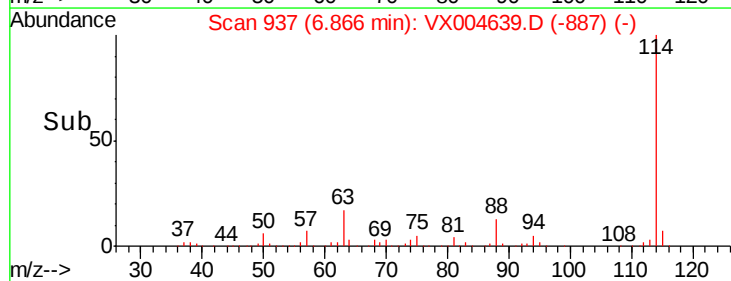
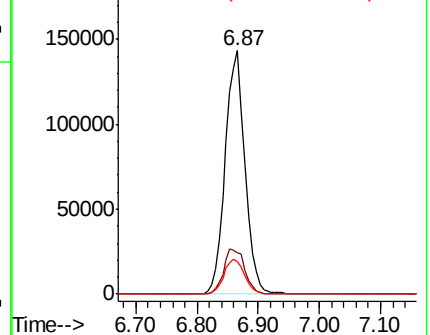
88 13.1 0.0 30.4

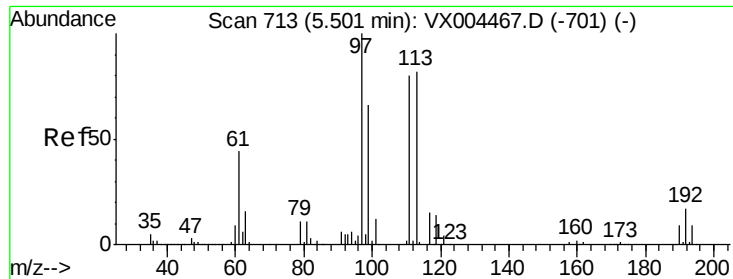


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 47.61 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

Instrument :
MSVOA_X
ClientSampleId :

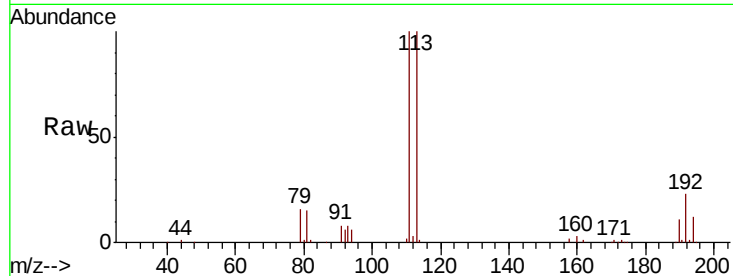
Tot Ion:113 Resp: 140525

Ion Ratio Lower Upper

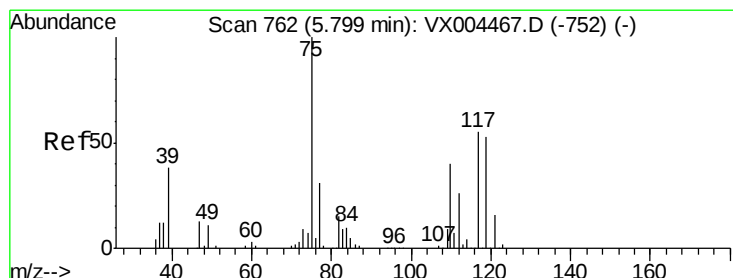
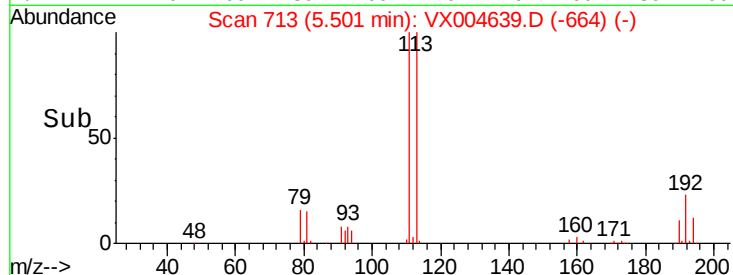
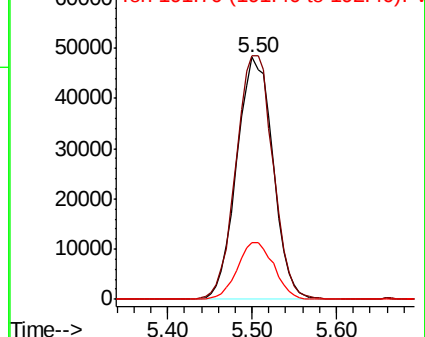
113 100

111 102.6 82.4 123.6

192 23.6 19.4 29.2



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: 3.81 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

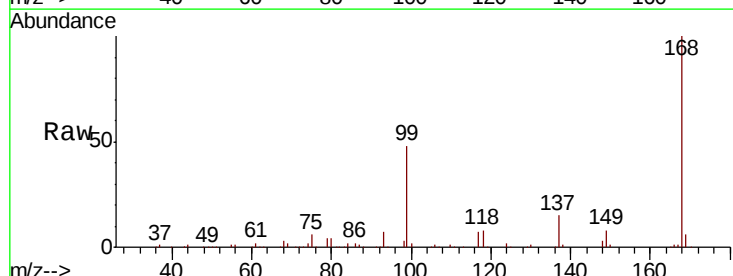
Tgt Ion: 75 Resp: 14921

Ion Ratio Lower Upper

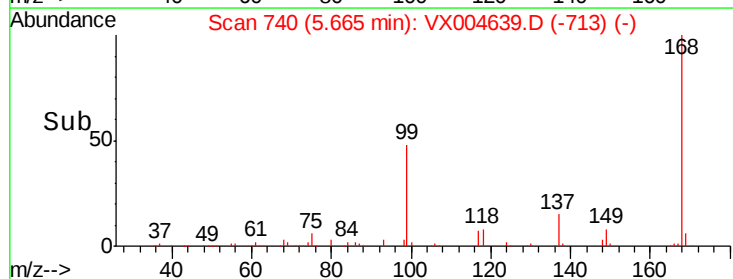
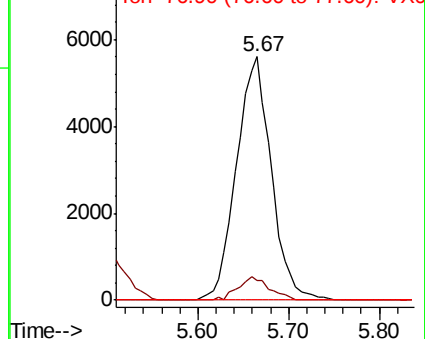
75 100

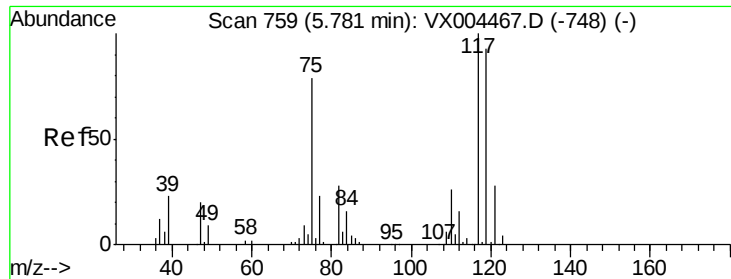
110 8.6 18.0 54.0#

77 0.0 24.6 36.8#



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: 4.93 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

Instrument :

MSVOA_X

ClientSampleId :

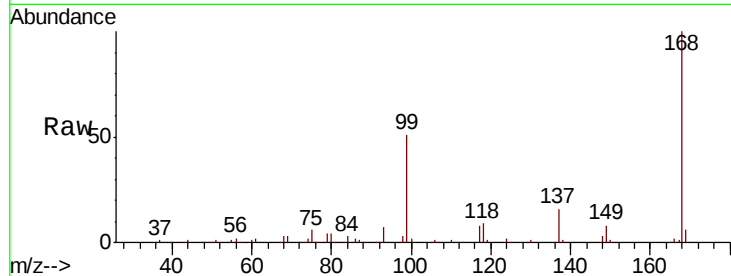
Tot Ion:117 Resp: 18862

Ion Ratio Lower Upper

117 100

119 7.0 78.8 118.2#

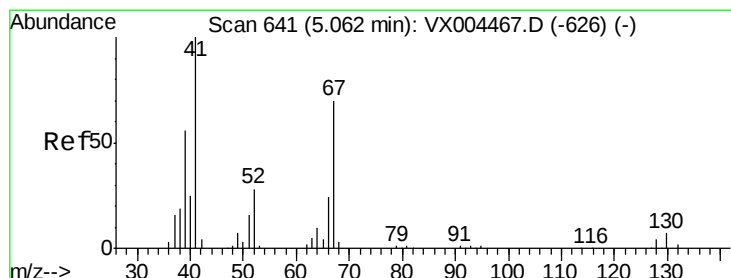
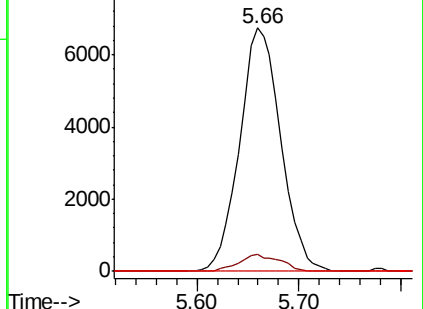
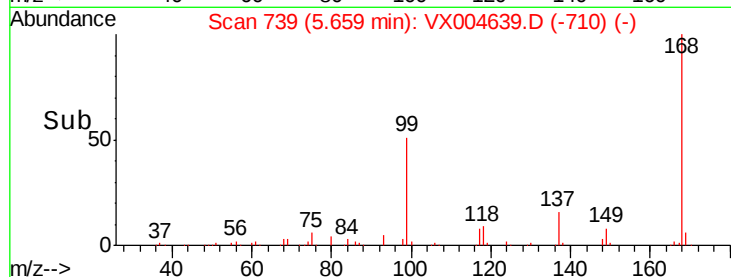
121 0.0 24.9 37.3#



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



#41

Methacrylonitrile

Concen: 0.35 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.11 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

Tgt Ion: 41 Resp: 870

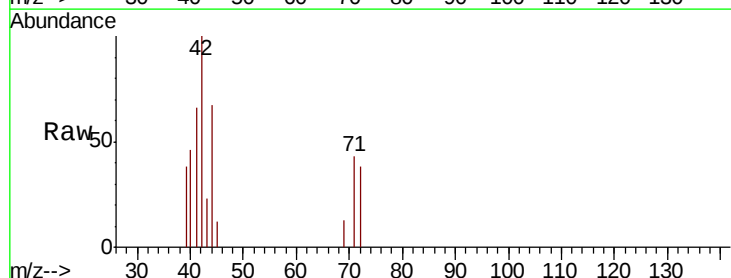
Ion Ratio Lower Upper

41 100

39 57.7 42.4 63.6

67 0.0 59.2 88.8#

52 0.0 23.0 34.4#

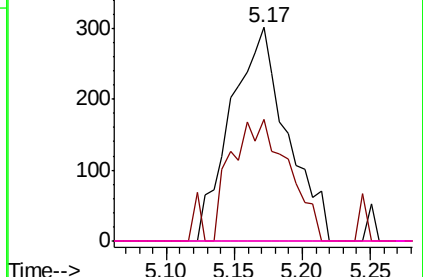
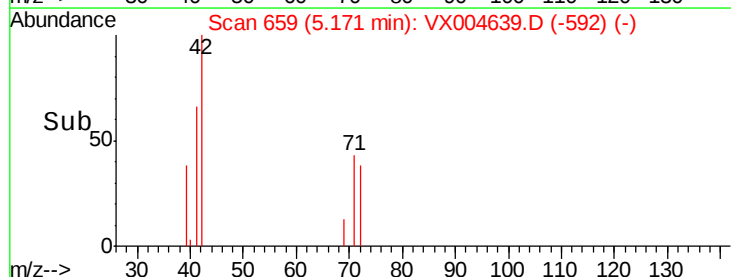


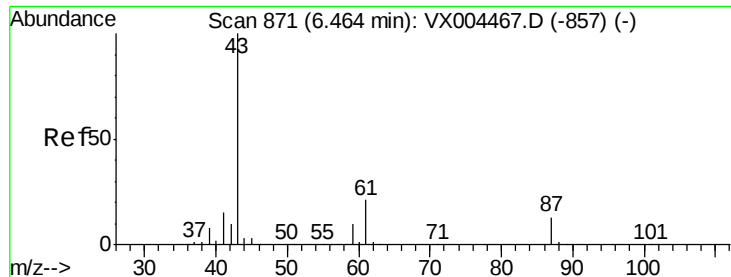
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



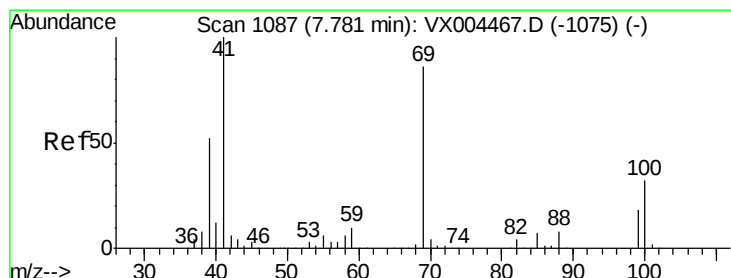
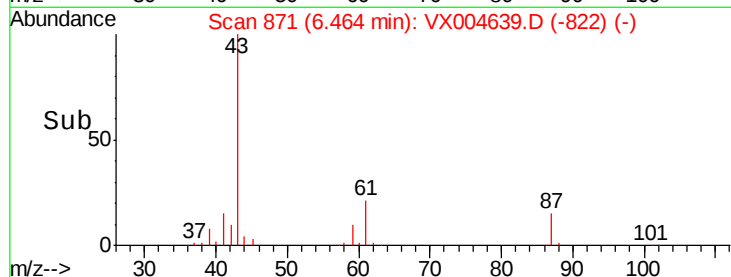
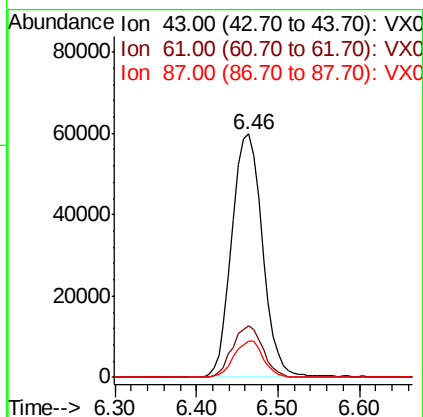
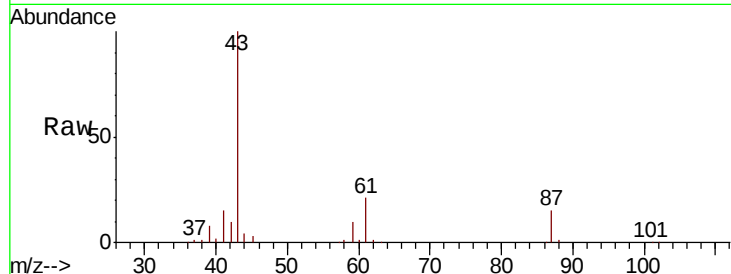


#43

Isopropyl Acetate
 Concen: 26.48 ug/l
 RT: 6.46 min Scan# 871
 Delta R.T. -0.00 min
 Lab File: VX004639.D
 Acq: 18 Sep 2018 00:25

Instrument :
 MSVOA_X
 ClientSampleId :

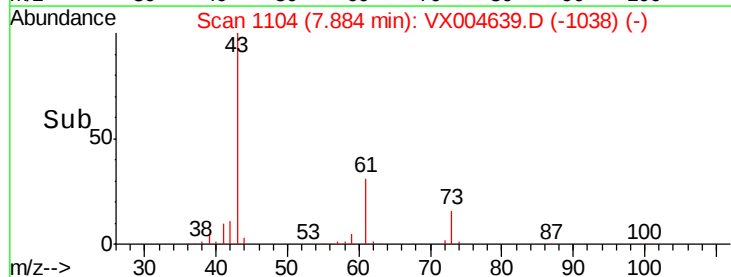
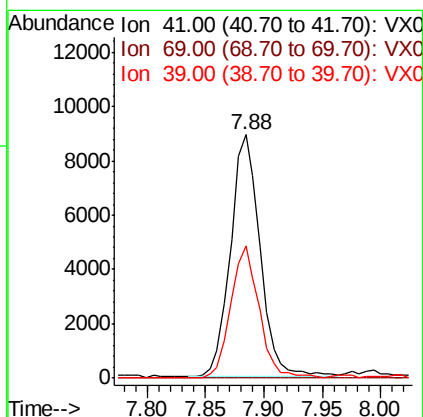
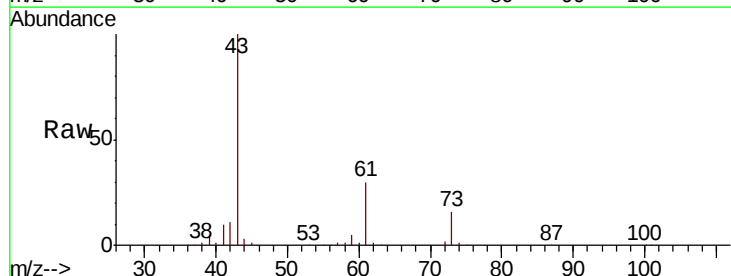
Tot Ion	43	Resp	156654
Ion Ratio	Lower	Upper	
43	100		
61	21.0	17.0	25.4
87	14.1	11.4	17.2

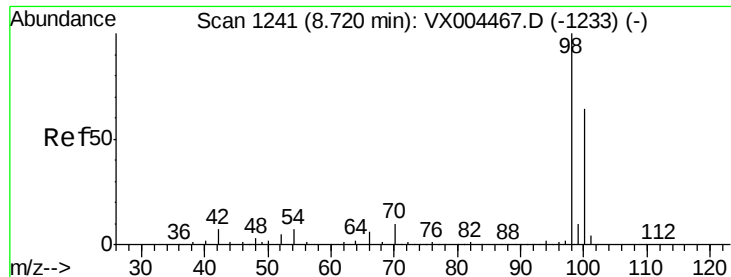


#48

Methyl methacrylate
 Concen: 5.39 ug/l
 RT: 7.88 min Scan# 1104
 Delta R.T. 0.10 min
 Lab File: VX004639.D
 Acq: 18 Sep 2018 00:25

Tgt Ion	41	Resp	15792
Ion Ratio	Lower	Upper	
41	100		
69	0.0	70.2	105.4#
39	52.7	42.7	64.1





#50

Toluene-d8

Concen: 46.03 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.01 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

Instrument :

MSVOA_X

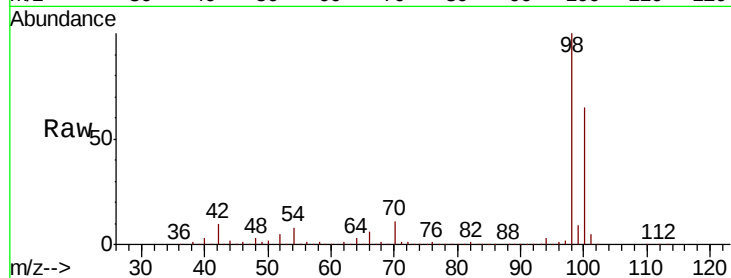
ClientSampleId :

Tot Ion: 98 Resp: 455648

Ion Ratio Lower Upper

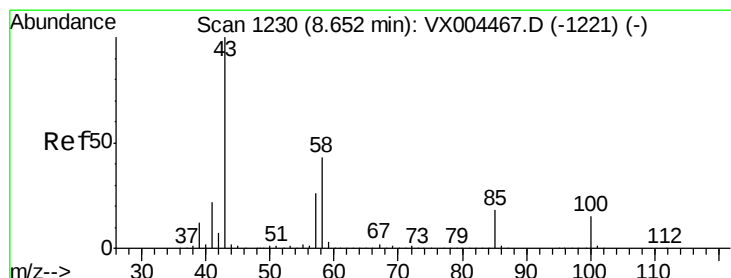
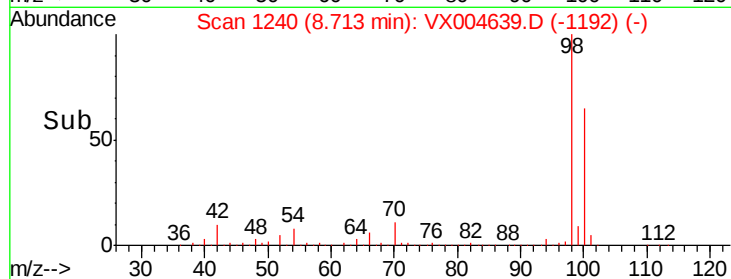
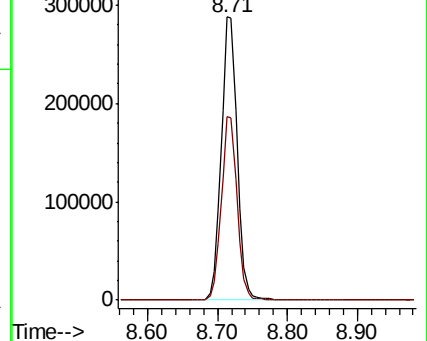
98 100

100 64.1 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.35 ug/l

RT: 8.65 min Scan# 1230

Delta R.T. -0.00 min

Lab File: VX004639.D

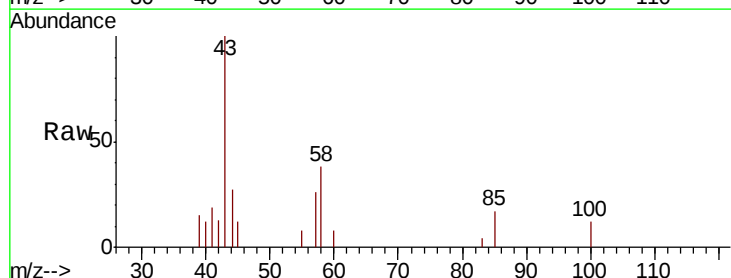
Acq: 18 Sep 2018 00:25

Tgt Ion: 43 Resp: 1449

Ion Ratio Lower Upper

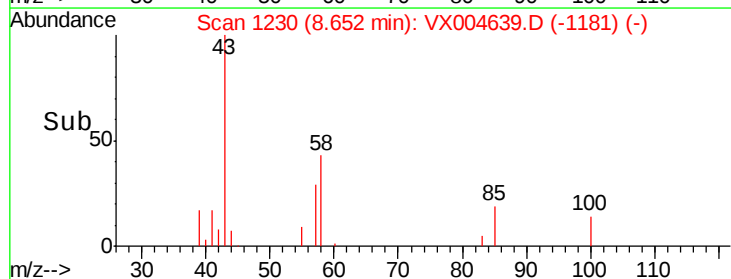
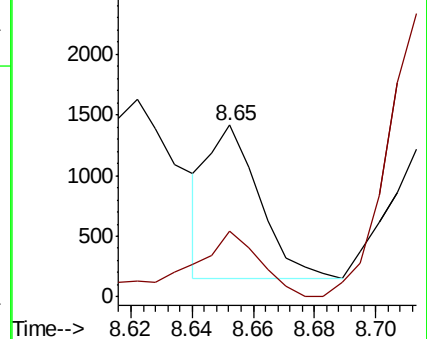
43 100

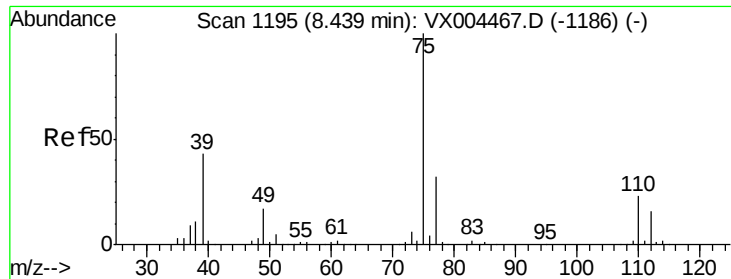
58 64.3 33.1 49.7#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

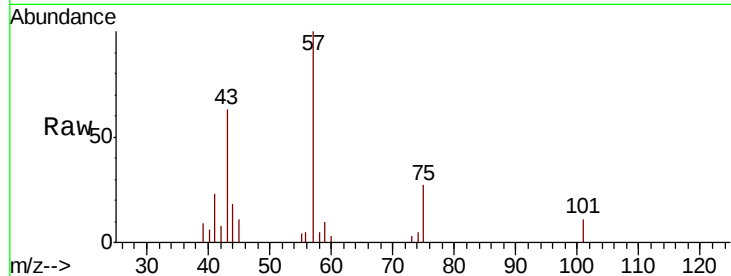




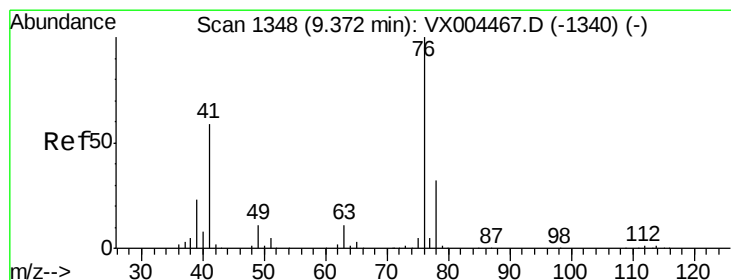
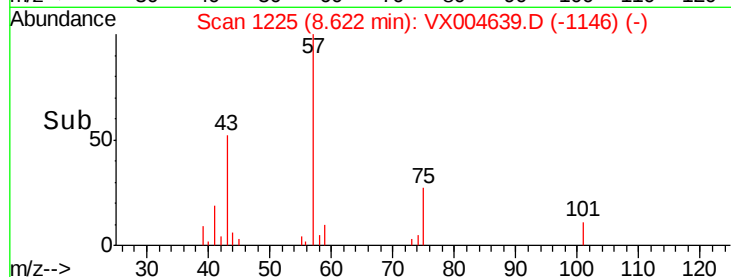
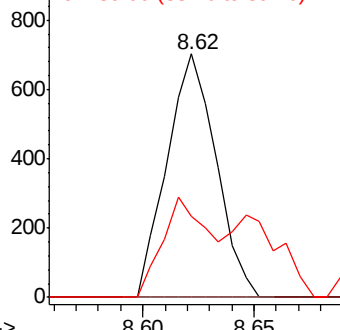
#54
 cis-1,3-Dichloropropene
 Concen: 0.27 ug/l
 RT: 8.62 min Scan# 1225
 Delta R.T. 0.18 min
 Lab File: VX004639.D
 Acq: 18 Sep 2018 00:25

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 1078
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.2 39.2#
 39 33.1 36.4 54.6#

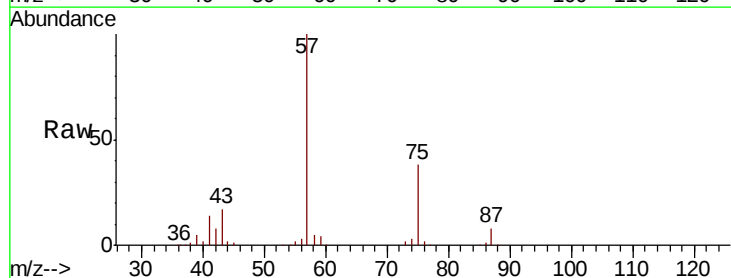


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 76.90 (76.60 to 77.60): VX0
 Ion 39.00 (38.70 to 39.70): VX0

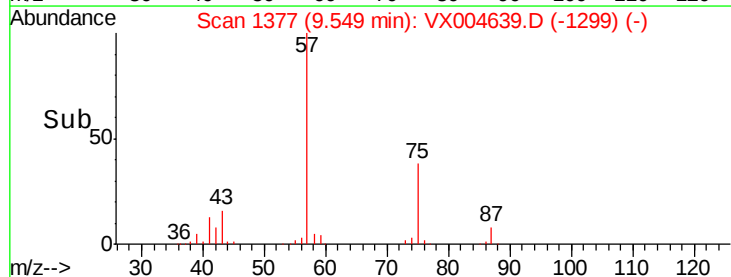
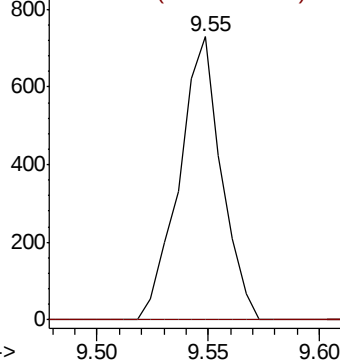


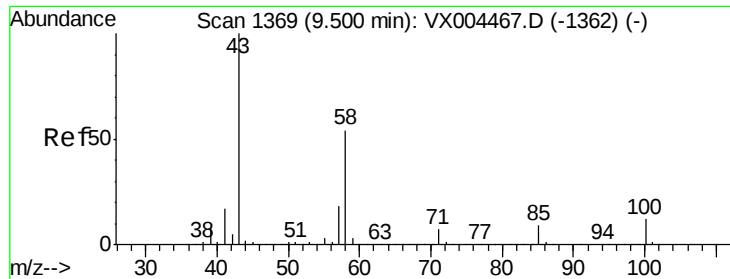
#57
 1,3-Dichloropropane
 Concen: 0.20 ug/l
 RT: 9.55 min Scan# 1377
 Delta R.T. 0.18 min
 Lab File: VX004639.D
 Acq: 18 Sep 2018 00:25

Tgt Ion: 76 Resp: 964
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0
 Ion 77.90 (77.60 to 78.60): VX0

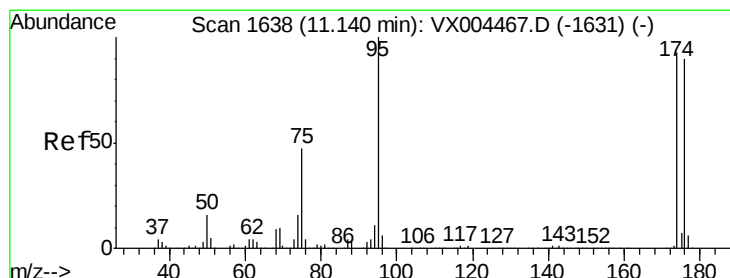
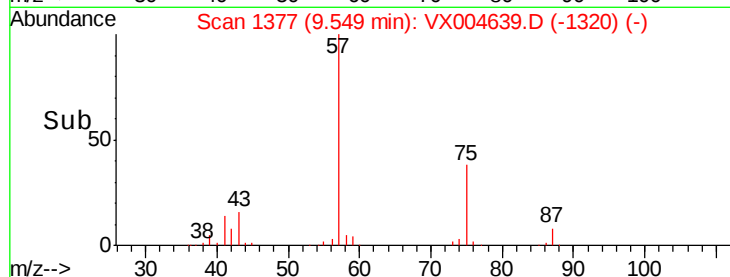
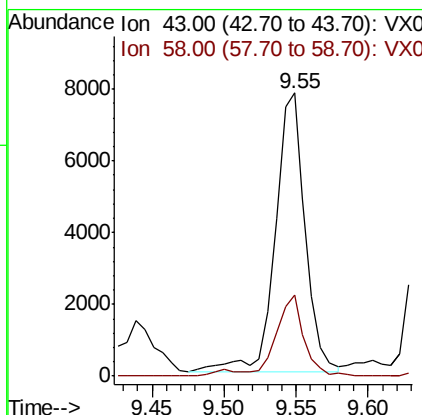
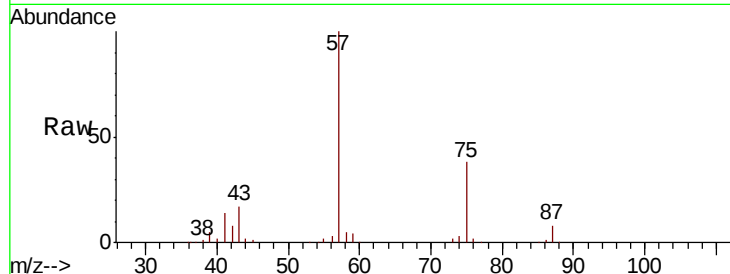




#59
2-Hexanone
Concen: 3.51 ug/l
RT: 9.55 min Scan# 1377
Delta R.T. 0.05 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

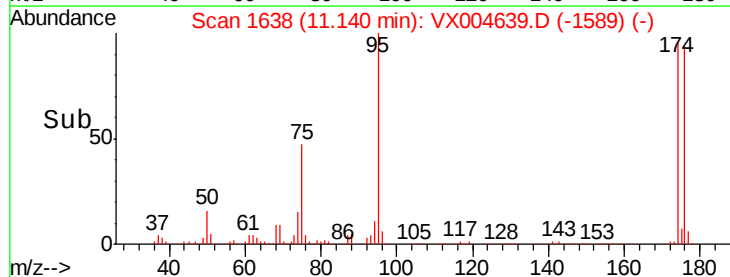
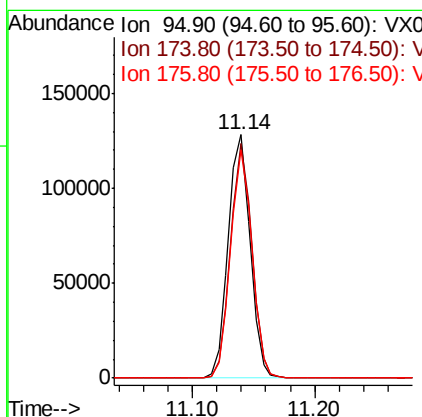
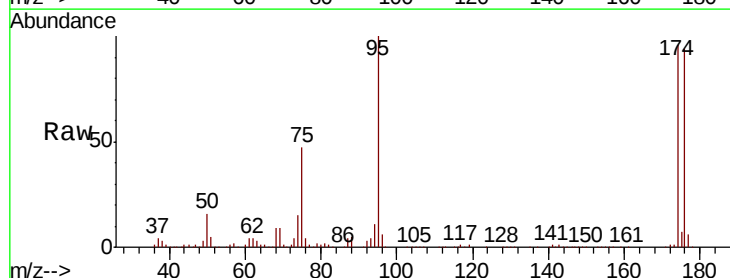
Instrument :
MSVOA_X
ClientSampleId :

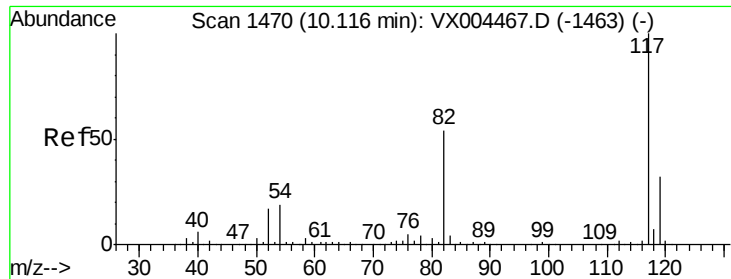
Tot Ion: 43 Resp: 11231
Ion Ratio Lower Upper
43 100
58 27.1 29.0 87.0#



#62
4-Bromofluorobenzene
Concen: 45.03 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. -0.00 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

Tgt Ion: 95 Resp: 159093
Ion Ratio Lower Upper
95 100
174 94.3 0.0 185.2
176 91.2 0.0 178.6

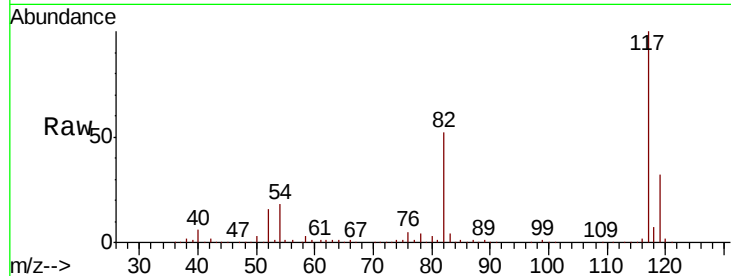




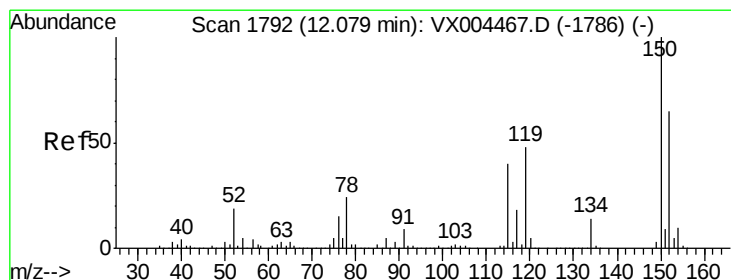
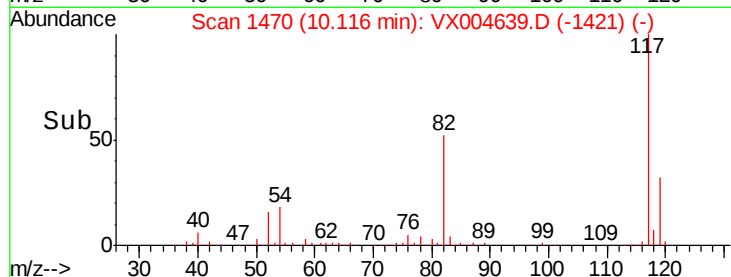
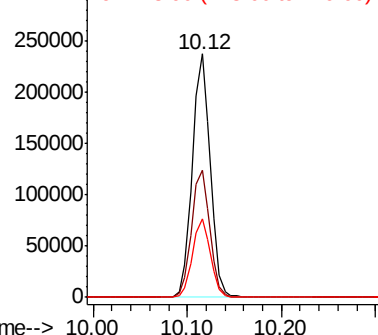
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 314090
Ion Ratio Lower Upper
117 100
82 52.2 47.8 71.6
119 32.2 29.3 43.9

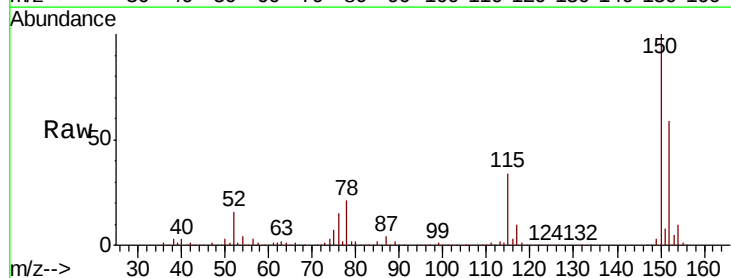


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

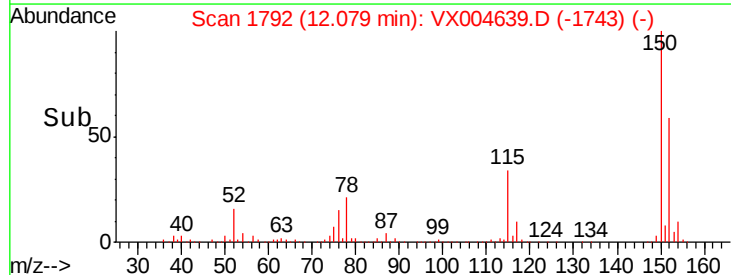
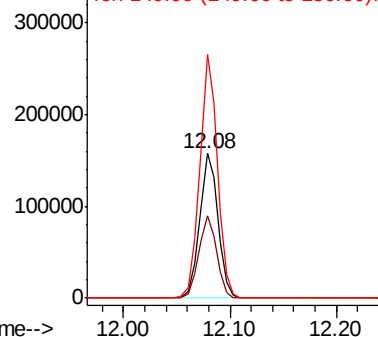


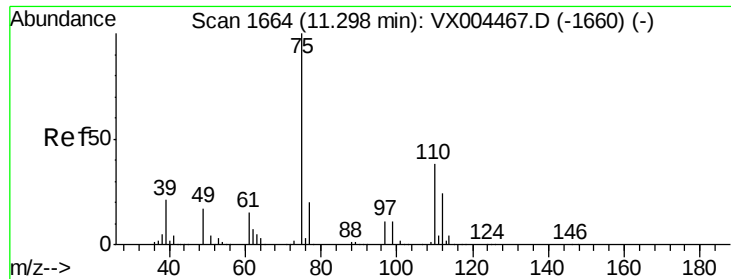
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX004639.D
Acq: 18 Sep 2018 00:25

Tgt Ion:152 Resp: 189289
Ion Ratio Lower Upper
152 100
115 56.0 39.0 117.0
150 163.2 0.0 351.0



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





#76

1,2,3-Trichloropropane

Concen: 19.47 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

Instrument :

MSVOA_X

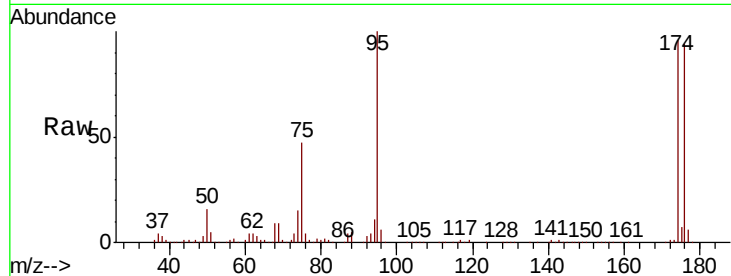
ClientSampleId :

Tot Ion: 75 Resp: 74138

Ion Ratio Lower Upper

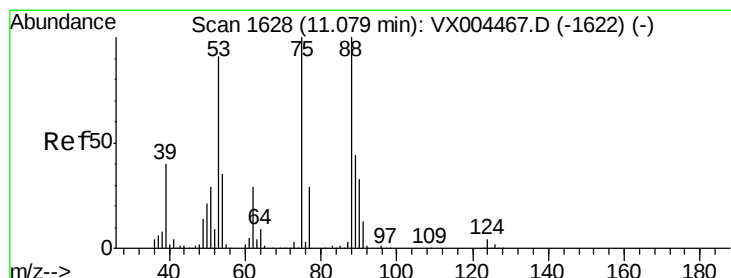
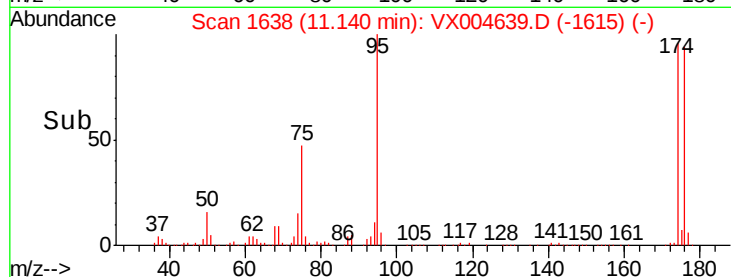
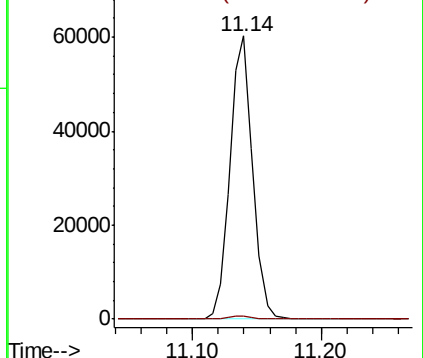
75 100

77 1.3 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 62.05 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.06 min

Lab File: VX004639.D

Acq: 18 Sep 2018 00:25

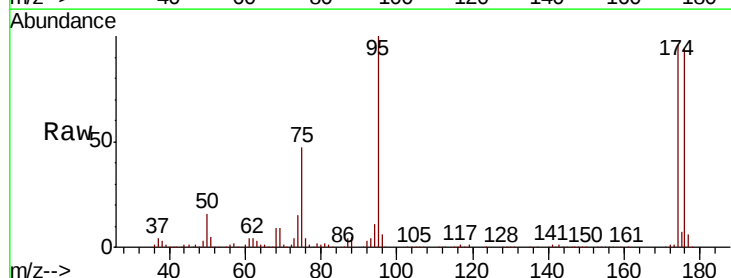
Tgt Ion: 75 Resp: 74138

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

