

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX010919\
 Data File : VX006973.D
 Acq On : 09 Jan 2019 18:46
 Operator : JC/MD
 Sample : K1006-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:58:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	630130	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	983660	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	902541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	423727	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	338466	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
35) Dibromofluoromethane	5.51	113	301603	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
50) Toluene-d8	8.71	98	1163883	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	
62) 4-Bromofluorobenzene	11.13	95	399128	49.65	ug/l	0.00
Spiked Amount			Recovery	=	99.30%	

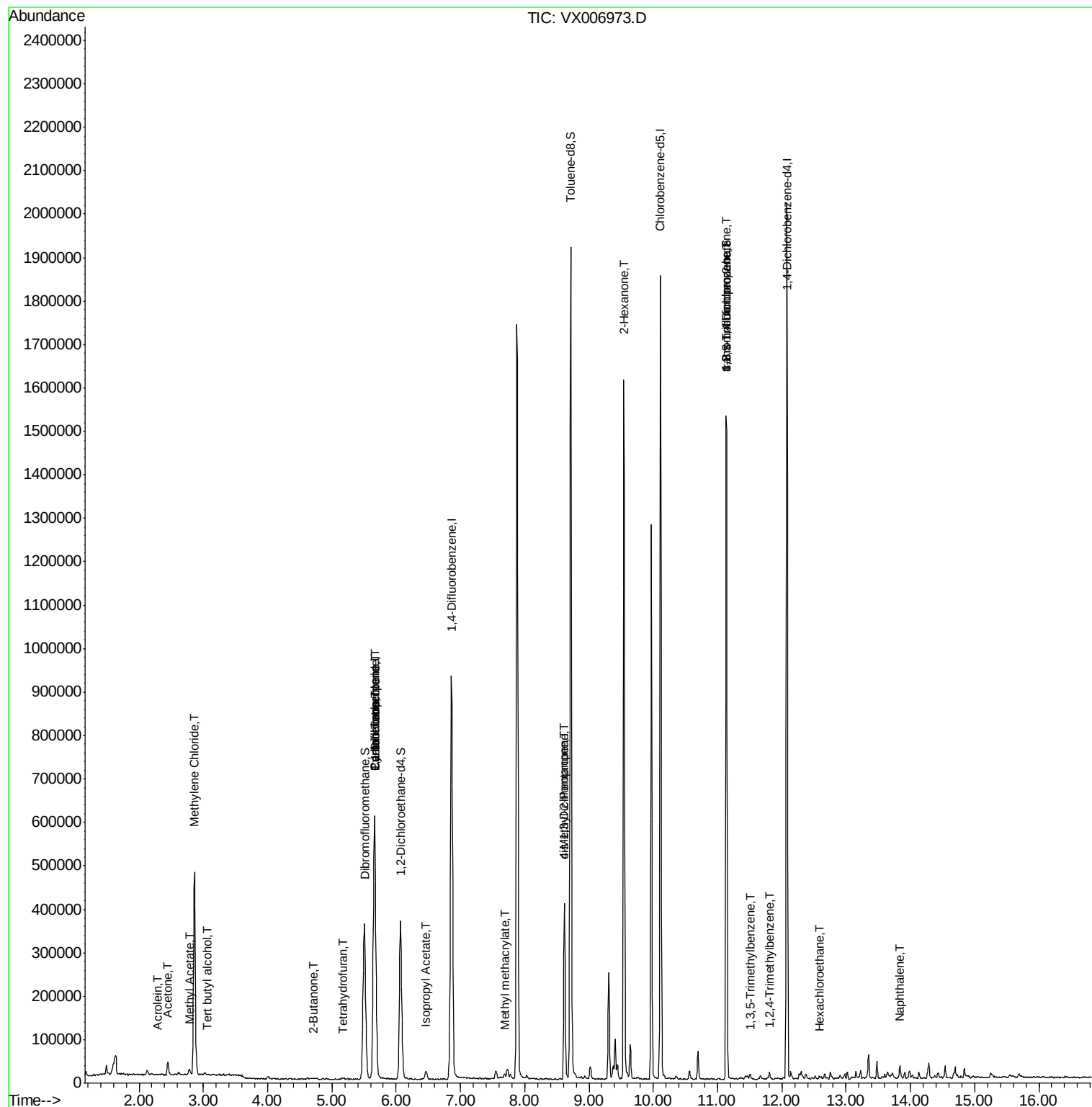
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.07	59	556	0.358	ug/l #	1
13) Acrolein	2.28	56	152	3.308	ug/l #	1
16) Acetone	2.45	43	31940	9.811	ug/l	98
18) Methyl Acetate	2.78	43	18307	1.942	ug/l	95
20) Methylene Chloride	2.86	84	218790	35.165	ug/l	95
25) 2-Butanone	4.70	43	4905	1.053	ug/l	90
29) Tetrahydrofuran	5.17	42	2127	0.703	ug/l #	53
31) Cyclohexane	5.67	56	11510	1.239	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	40890	4.781	ug/l #	50
38) Carbon Tetrachloride	5.67	117	57056	6.631	ug/l #	13
43) Isopropyl Acetate	6.46	43	25599	1.770	ug/l	99
48) Methyl methacrylate	7.69	41	12766	1.719	ug/l #	11
49) 1,4-Dioxane	7.76	88	184	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	127706	13.740	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	65912	6.858	ug/l #	62
59) 2-Hexanone	9.54	43	177793	25.102	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	190238	22.155	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	5486	0.220	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.13	75	190238	65.585	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.81	105	6924	0.276	ug/l	93
90) Hexachloroethane	12.59	117	984	3.126	ug/l #	14
95) Naphthalene	13.83	128	18695	0.612	ug/l	97

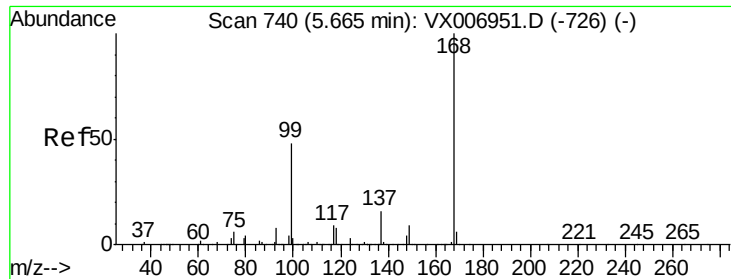
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX010919\
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ClientSampleId :

Quant Time: Jan 10 00:58:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

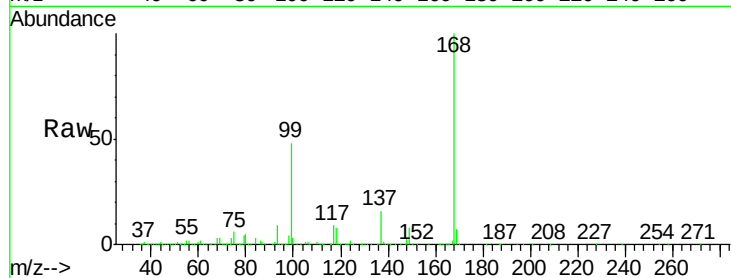
ClientSampleId :

Tot Ion:168 Resp: 630130

Ion Ratio Lower Upper

168 100

99 48.3 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

250000

200000

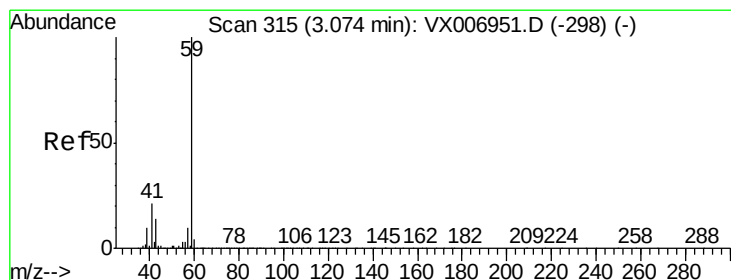
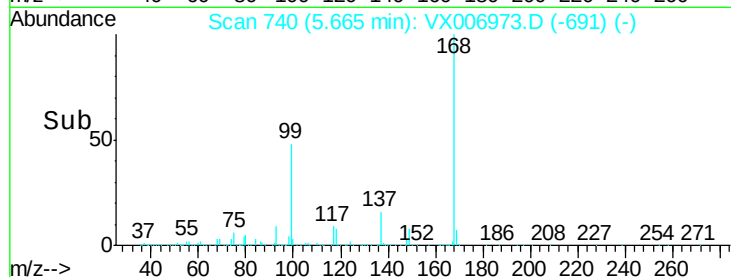
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 0.358 ug/l

RT: 3.07 min Scan# 314

Delta R.T. -0.01 min

Lab File: VX006973.D

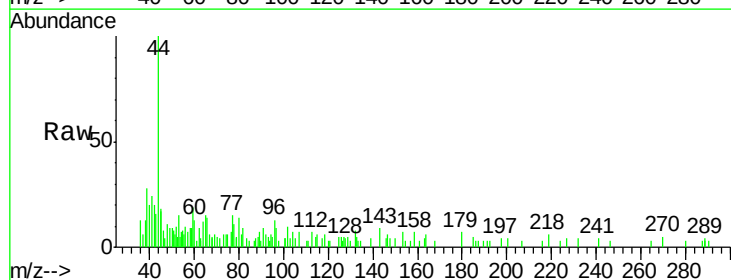
Acq: 09 Jan 2019 18:46

Tgt Ion: 59 Resp: 556

Ion Ratio Lower Upper

59 100

57 89.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.07

800

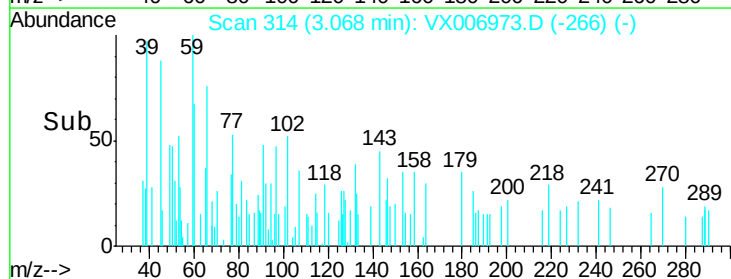
600

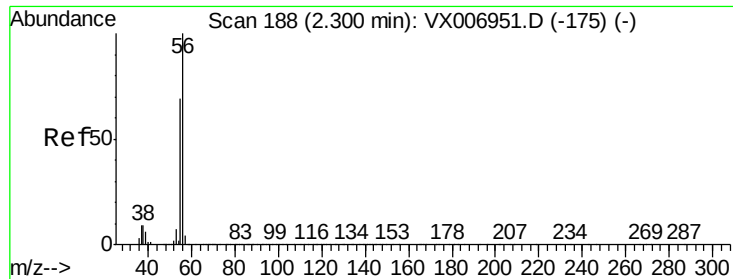
400

200

0

Time--> 3.04 3.06 3.08 3.10





#13

Acrolein

Concen: 3.308 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.02 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

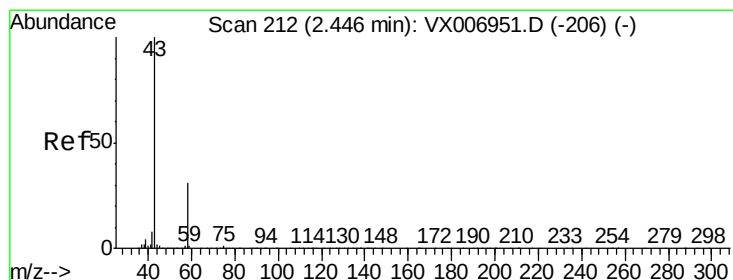
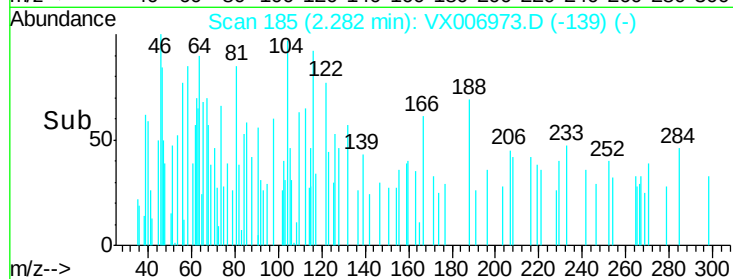
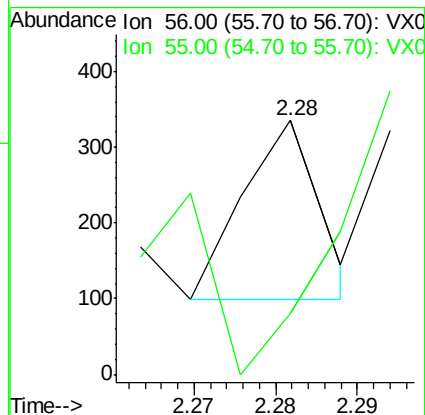
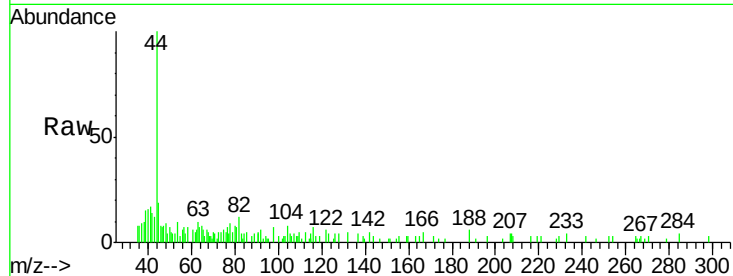
ClientSampled :

Tot Ion: 56 Resp: 152

Ion Ratio Lower Upper

56 100

55 267.8 58.2 87.4#



#16

Acetone

Concen: 9.811 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX006973.D

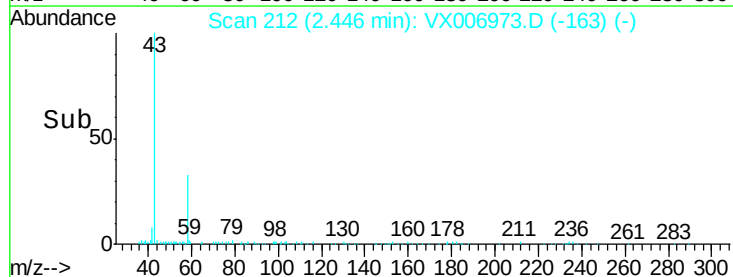
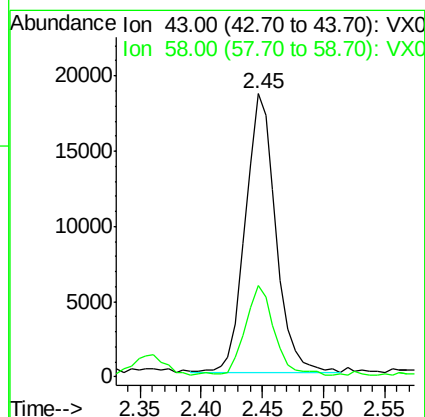
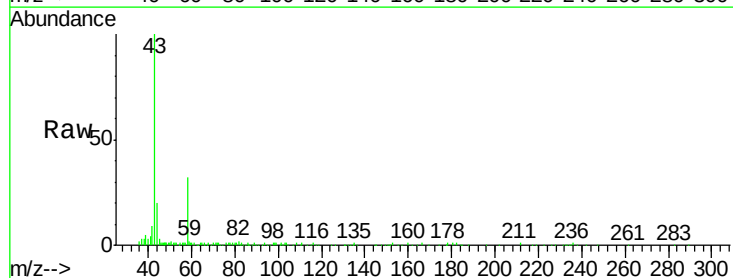
Acq: 09 Jan 2019 18:46

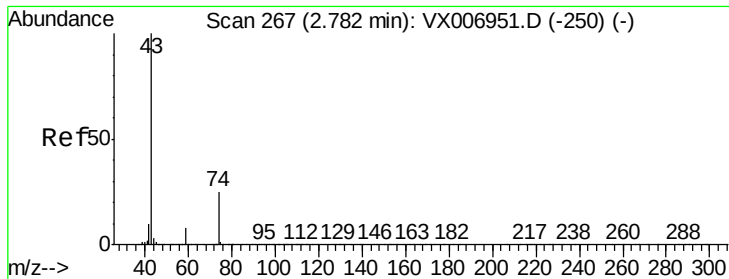
Tgt Ion: 43 Resp: 31940

Ion Ratio Lower Upper

43 100

58 32.1 25.0 37.6

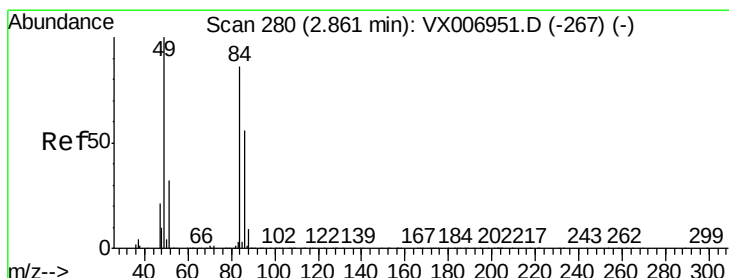
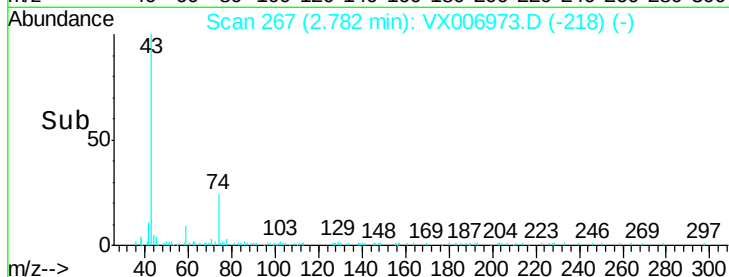
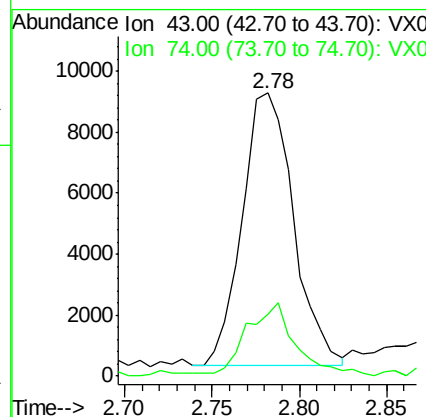
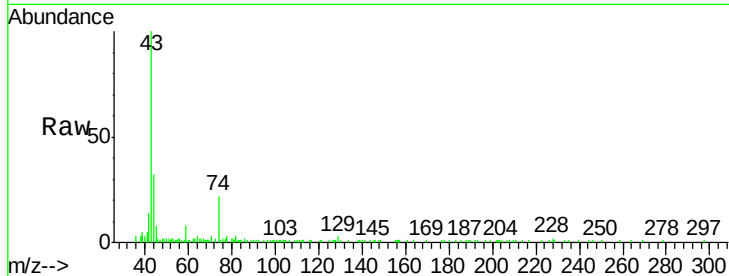




#18
Methyl Acetate
Concen: 1.942 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.00 min
Lab File: VX006973.D
Acq: 09 Jan 2019 18:46

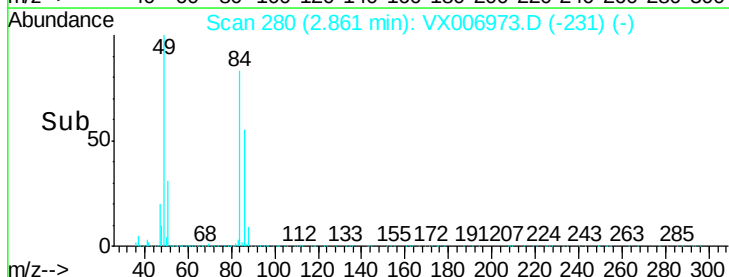
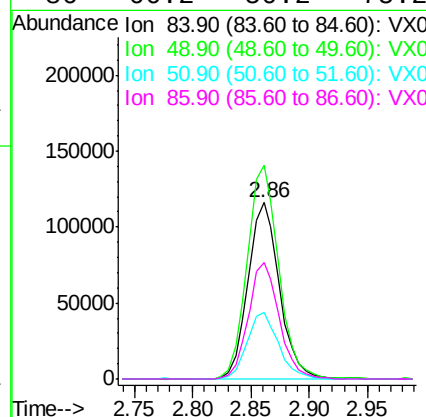
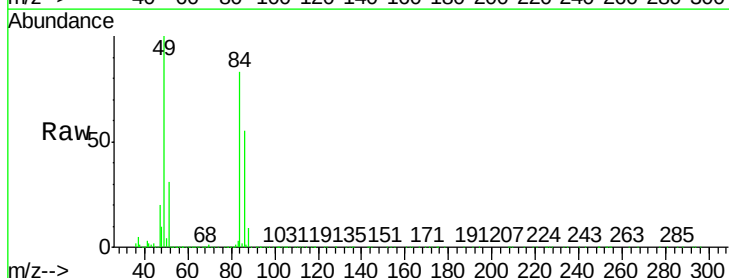
Instrument :
MSVOA_X
ClientSampleId :

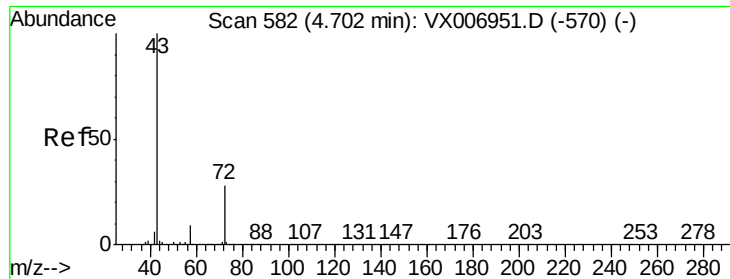
Tot Ion: 43 Resp: 18307
Ion Ratio Lower Upper
43 100
74 25.8 18.6 28.0



#20
Methylene Chloride
Concen: 35.165 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX006973.D
Acq: 09 Jan 2019 18:46

Tgt Ion: 84 Resp: 218790
Ion Ratio Lower Upper
84 100
49 120.9 91.8 137.6
51 37.8 28.5 42.7
86 66.2 50.2 75.2





#25

2-Butanone

Concen: 1.053 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.00 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

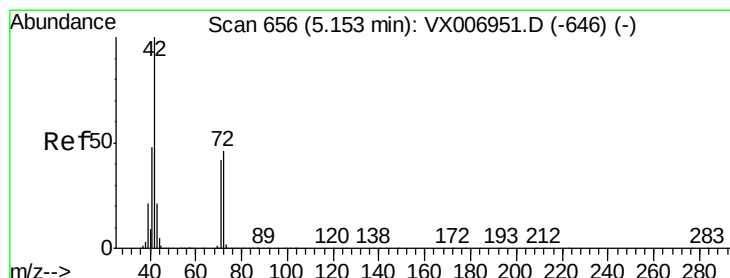
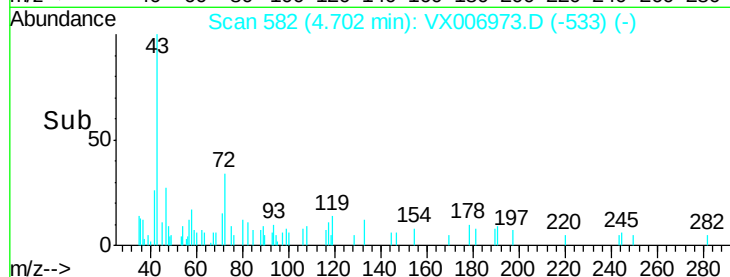
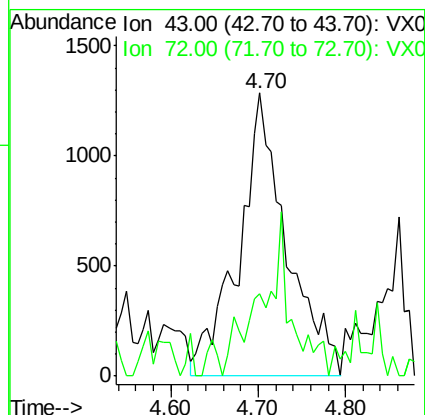
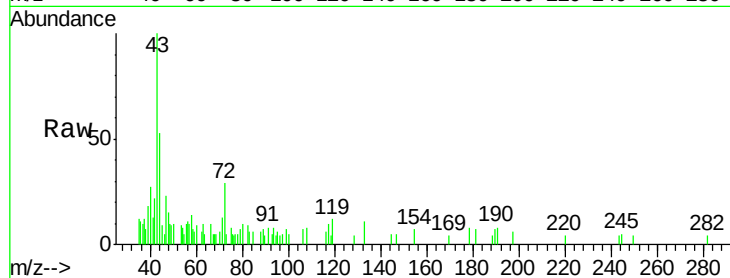
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 4905

Ion Ratio Lower Upper

43 100

72 22.9 22.4 33.6



#29

Tetrahydrofuran

Concen: 0.703 ug/l

RT: 5.17 min Scan# 659

Delta R.T. 0.02 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

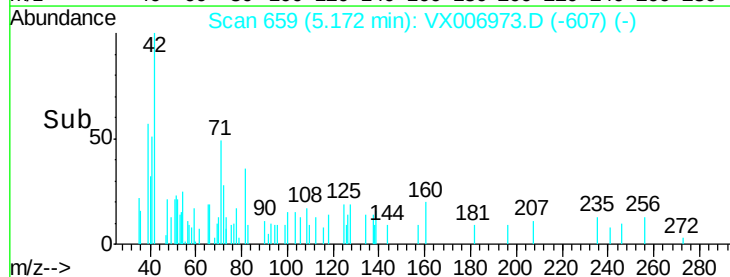
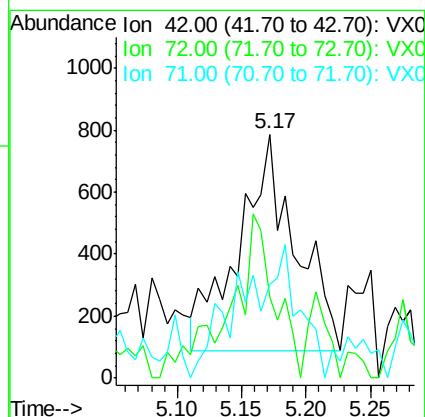
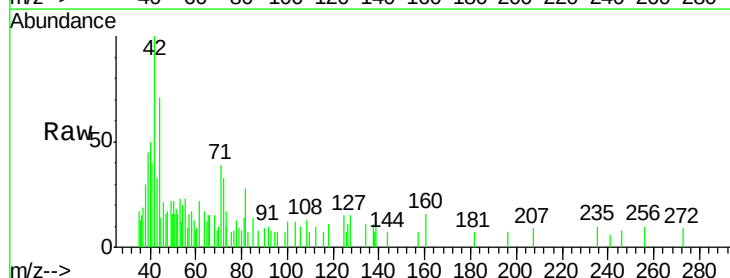
Tgt Ion: 42 Resp: 2127

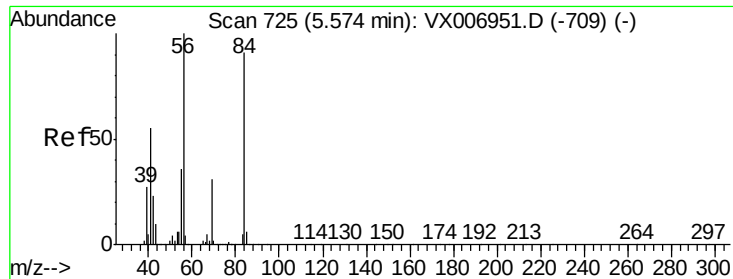
Ion Ratio Lower Upper

42 100

72 0.0 38.9 58.3#

71 31.5 36.2 54.4#

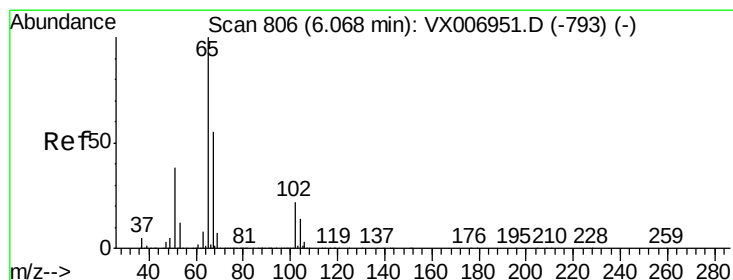
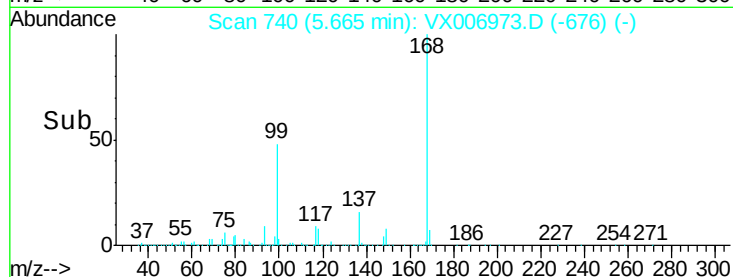
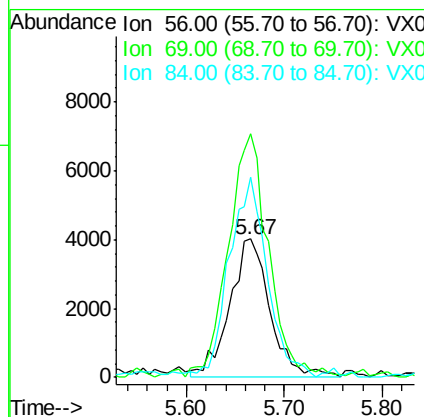
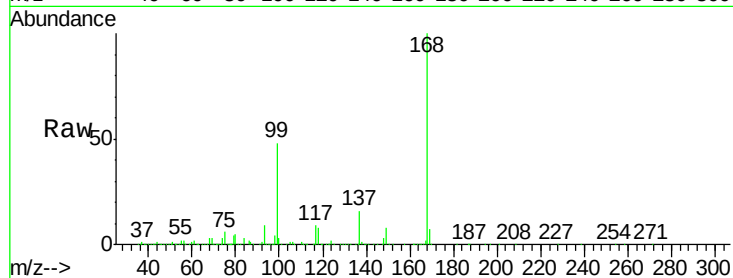




#31
Cyclohexane
Concen: 1.239 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX006973.D
Acq: 09 Jan 2019 18:46

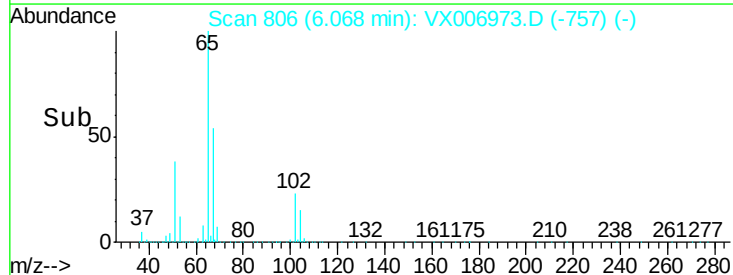
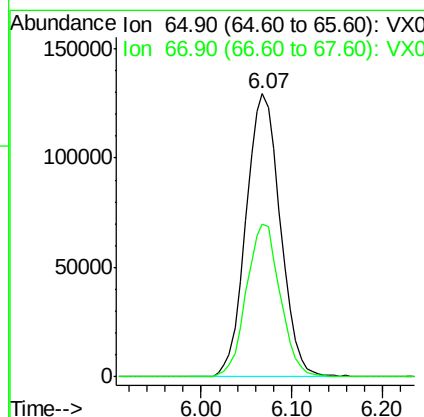
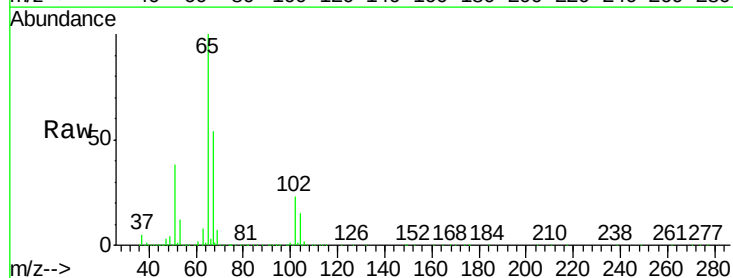
Instrument :
MSVOA_X
ClientSampleId :

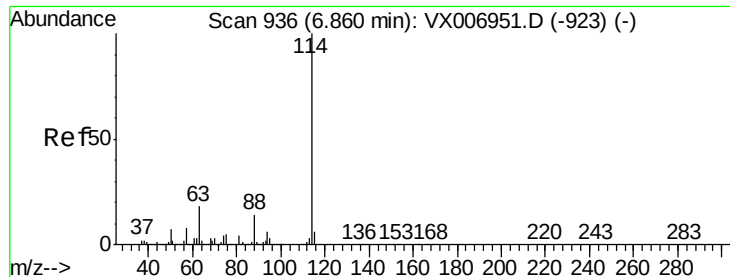
Tot Ion: 56 Resp: 11510
Ion Ratio Lower Upper
56 100
69 173.5 24.4 36.6#
84 143.1 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 51.396 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX006973.D
Acq: 09 Jan 2019 18:46

Tgt Ion: 65 Resp: 338466
Ion Ratio Lower Upper
65 100
67 53.3 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

ClientSampled :

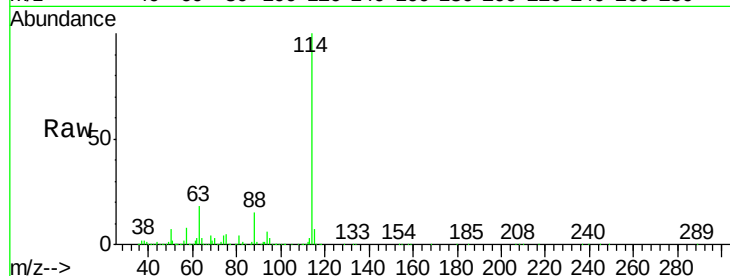
Tot Ion:114 Resp: 983660

Ion Ratio Lower Upper

114 100

63 18.0 0.0 34.8

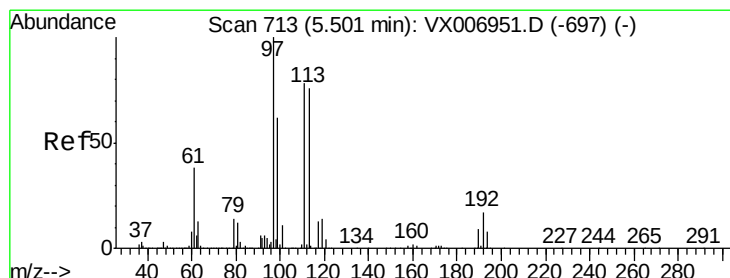
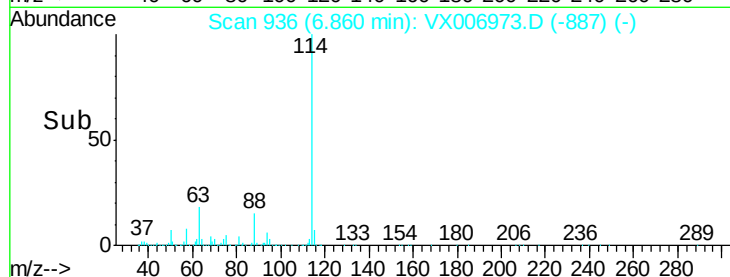
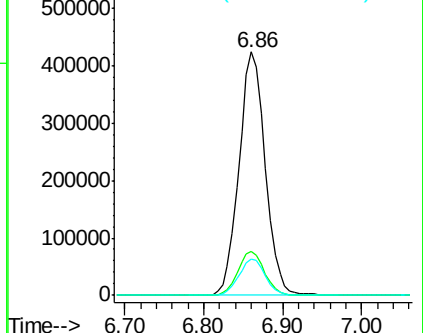
88 14.9 0.0 28.8



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: 47.879 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

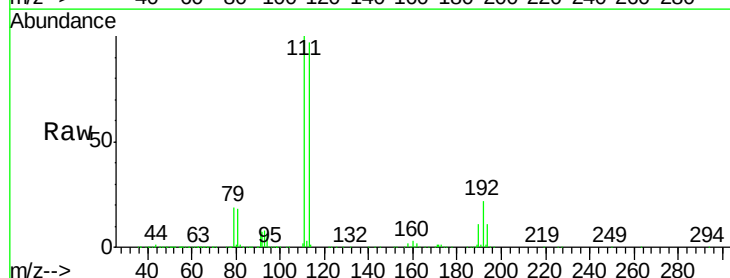
Tgt Ion:113 Resp: 301603

Ion Ratio Lower Upper

113 100

111 101.4 81.6 122.4

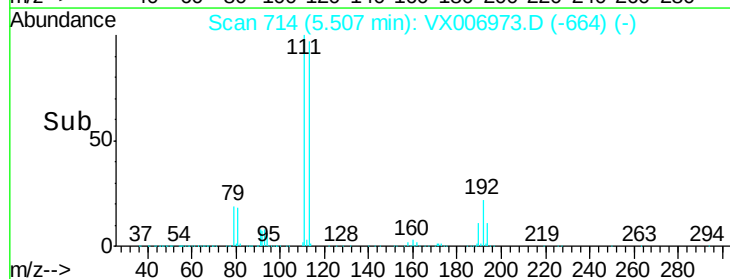
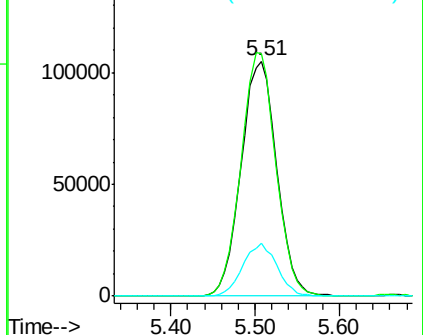
192 21.7 16.7 25.1

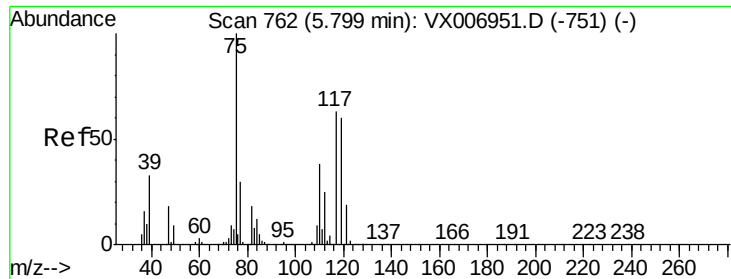


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

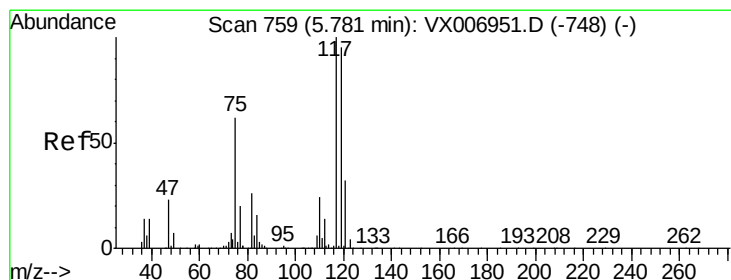
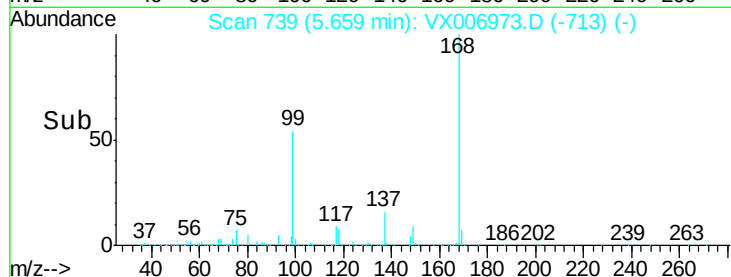
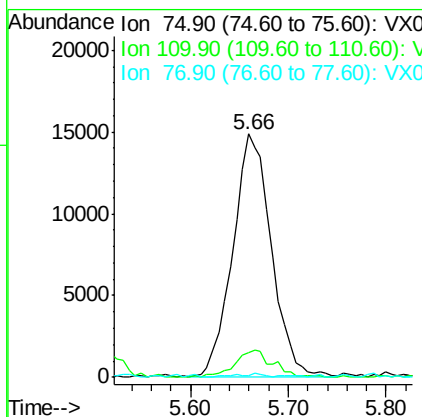
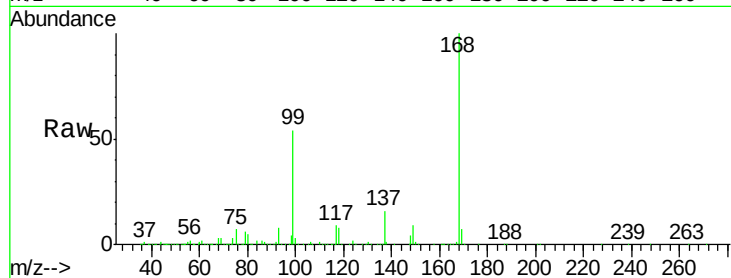




#36
 1,1-Dichloropropene
 Concen: 4.781 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006973.D
 Acq: 09 Jan 2019 18:46

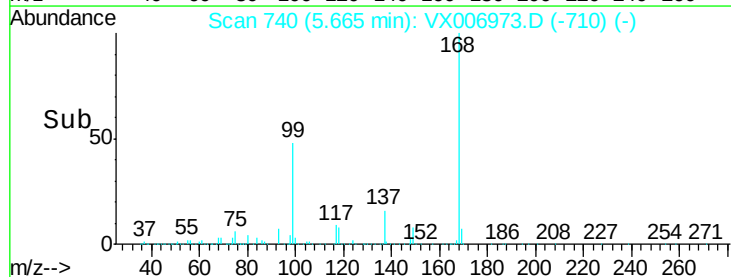
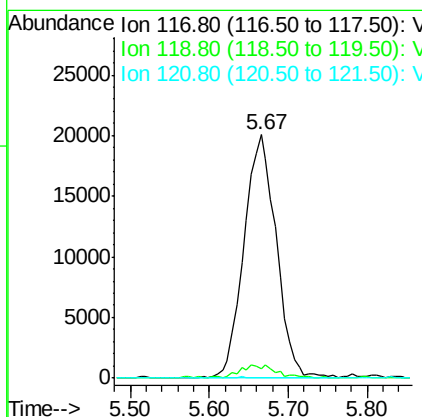
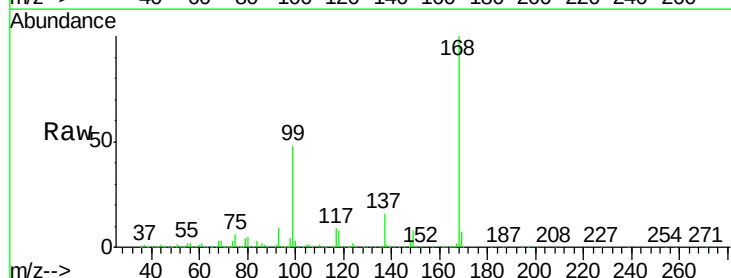
Instrument :
 MSVOA_X
 ClientSampleId :

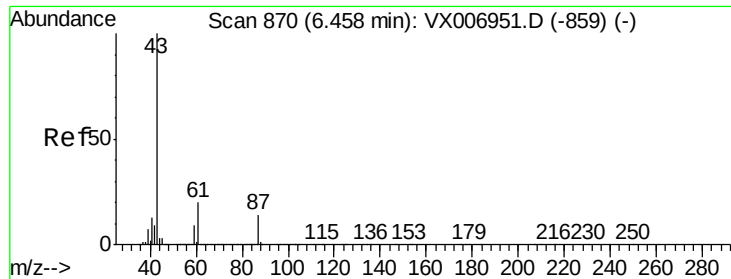
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.9	20.2	60.5#
77	1.1	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.631 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX006973.D
 Acq: 09 Jan 2019 18:46

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.4	79.4	119.2#
121	0.0	24.0	36.0#





#43

Isopropyl Acetate

Concen: 1.770 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

ClientSampled :

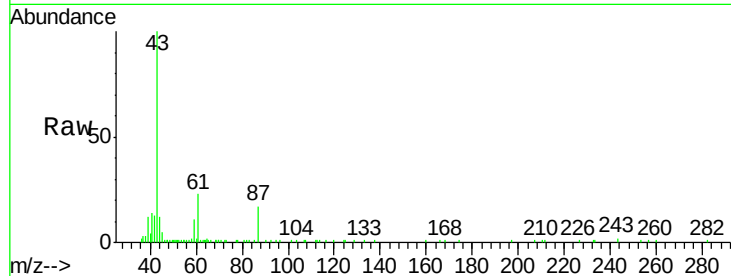
Tot Ion: 43 Resp: 25599

Ion Ratio Lower Upper

43 100

61 20.7 16.8 25.2

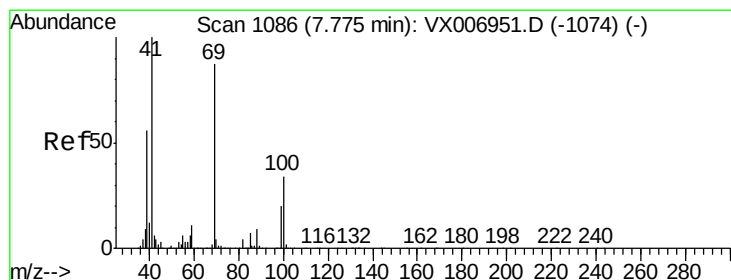
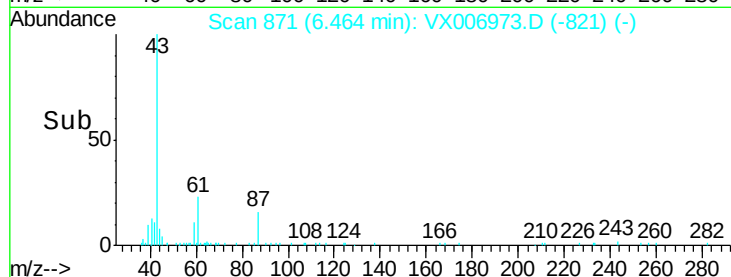
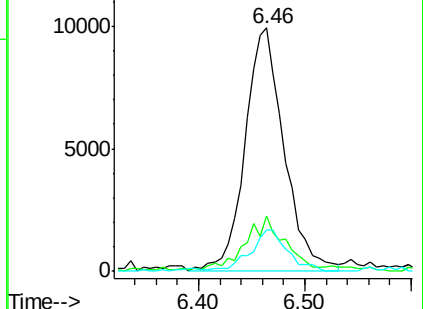
87 16.3 12.4 18.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#48

Methyl methacrylate

Concen: 1.719 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

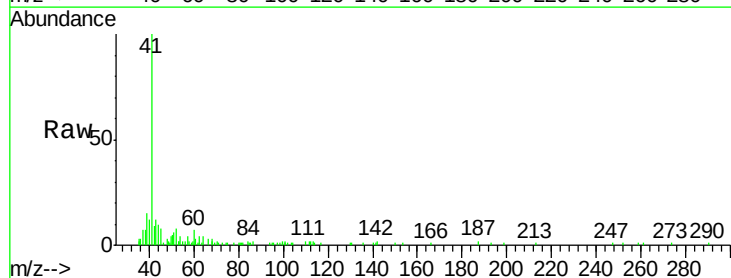
Tgt Ion: 41 Resp: 12766

Ion Ratio Lower Upper

41 100

69 0.0 72.4 108.6#

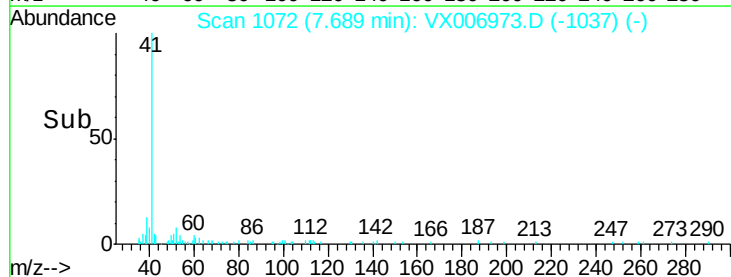
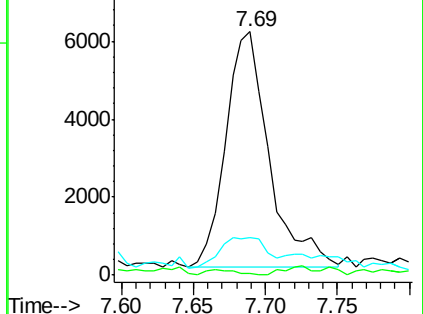
39 0.0 45.8 68.8#

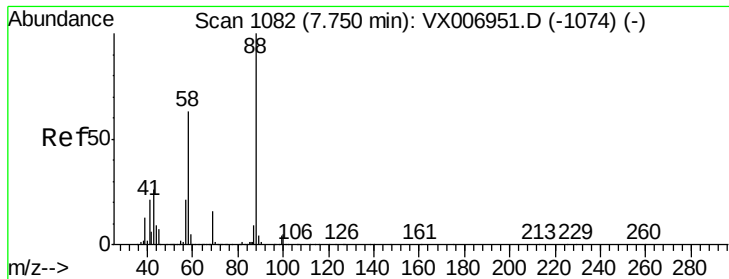


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 39.00 (38.70 to 39.70): VX0





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.76 min Scan# 1084

Delta R.T. 0.01 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

ClientSampleId :

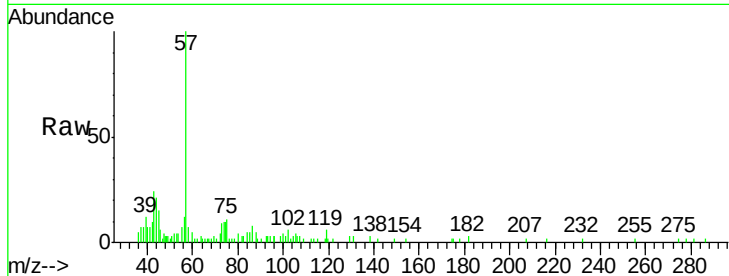
Tot Ion: 88 Resp: 184

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

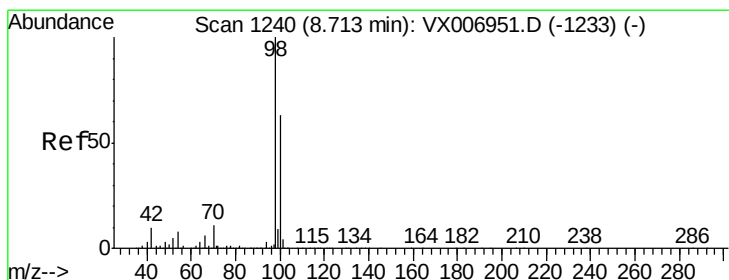
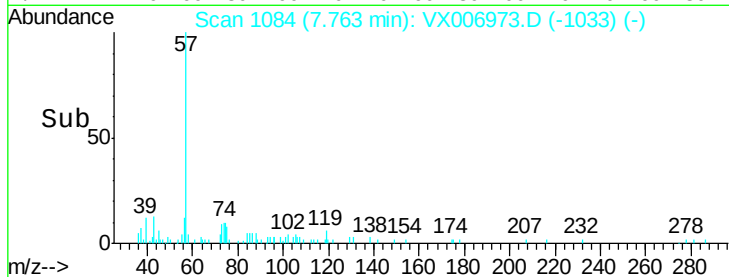
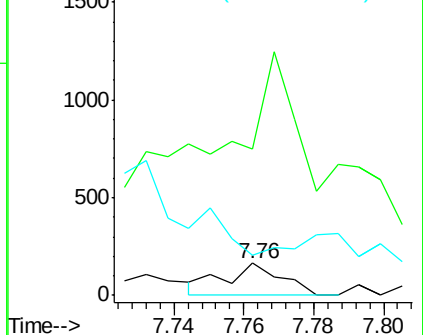
58 0.0 51.0 76.4#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.478 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX006973.D

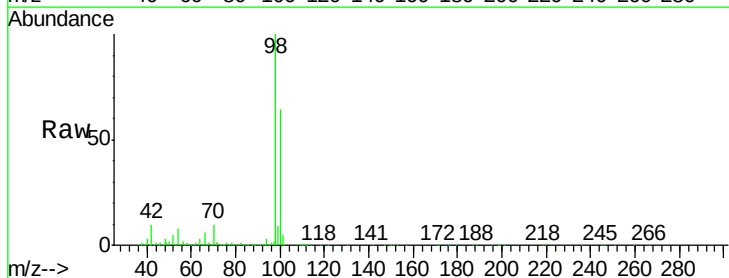
Acq: 09 Jan 2019 18:46

Tgt Ion: 98 Resp: 1163883

Ion Ratio Lower Upper

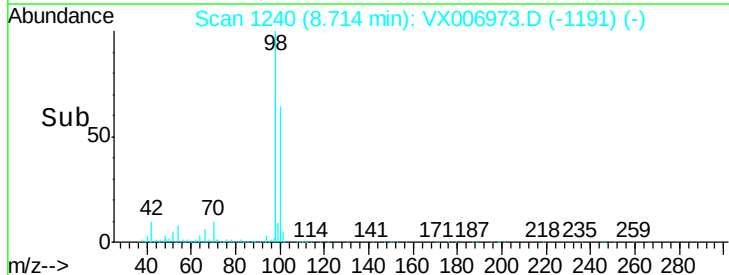
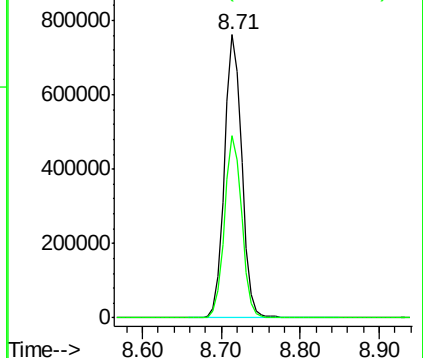
98 100

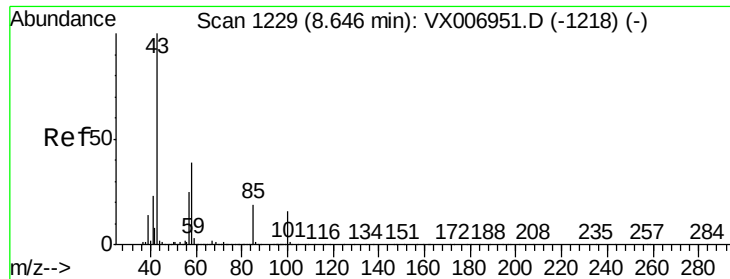
100 63.9 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

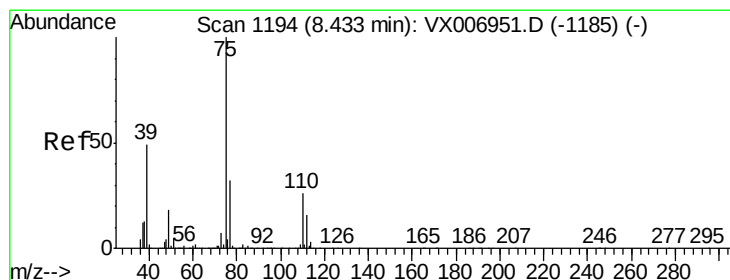
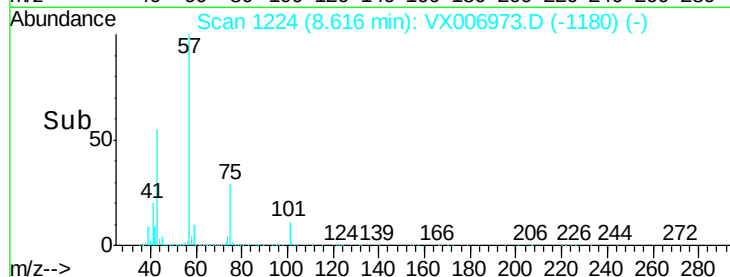
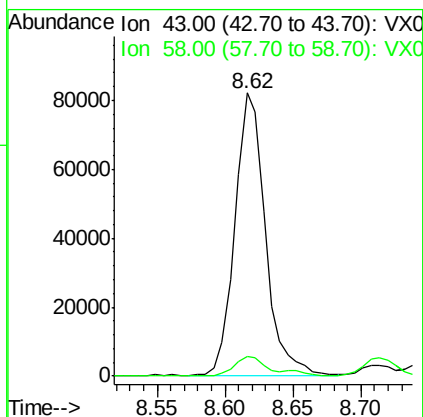
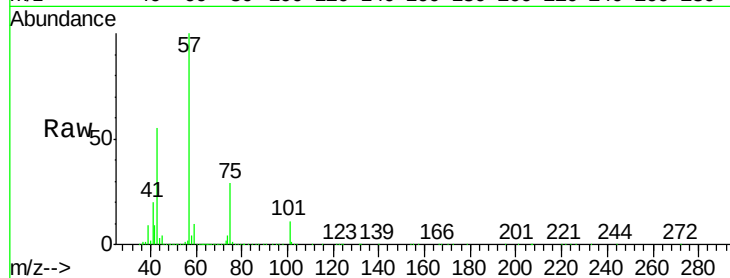




#51
4-Methyl-2-Pentanone
Concen: 13.740 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX006973.D
Acq: 09 Jan 2019 18:46

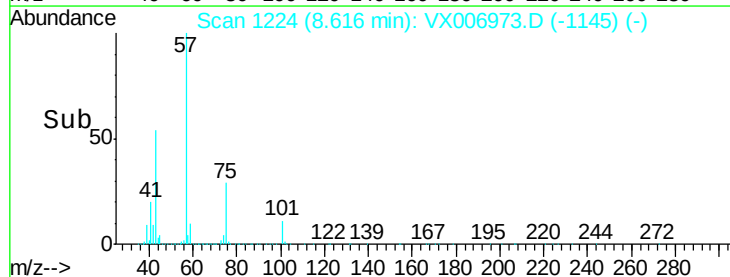
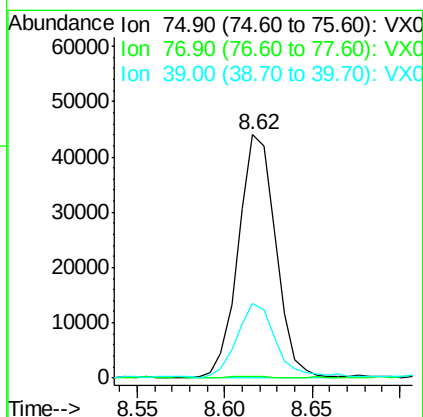
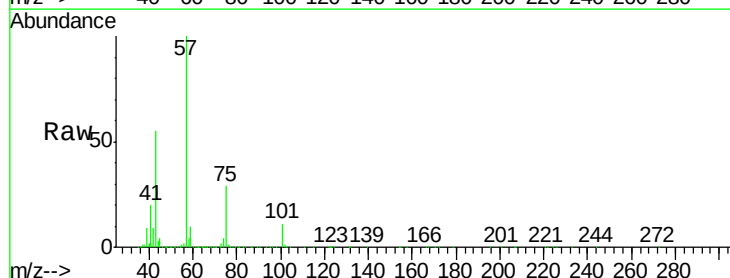
Instrument :
MSVOA_X
ClientSampleId :

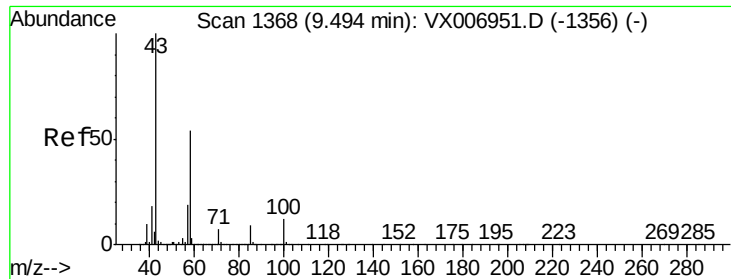
Tot Ion: 43 Resp: 127706
Ion Ratio Lower Upper
43 100
58 8.5 31.8 47.6#



#54
cis-1,3-Dichloropropene
Concen: 6.858 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. 0.18 min
Lab File: VX006973.D
Acq: 09 Jan 2019 18:46

Tgt Ion: 75 Resp: 65912
Ion Ratio Lower Upper
75 100
77 0.6 26.2 39.2#
39 30.1 36.7 55.1#

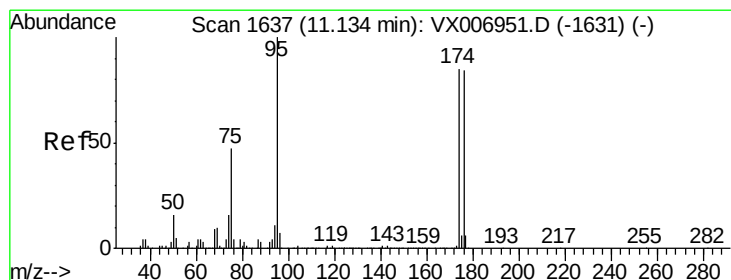
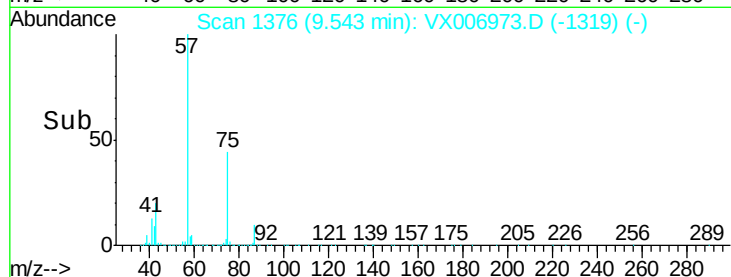
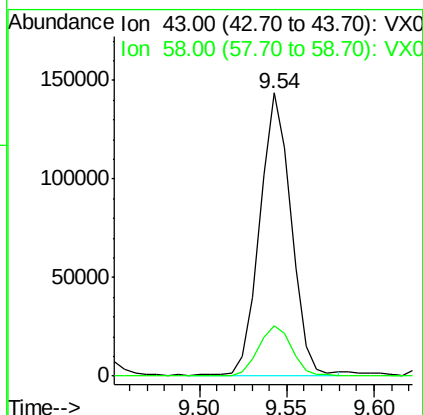
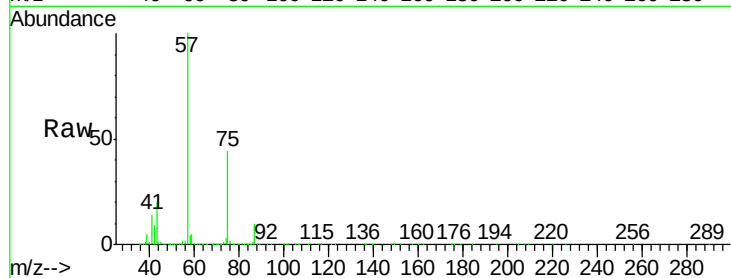




#59
2-Hexanone
Concen: 25.102 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX006973.D
Acq: 09 Jan 2019 18:46

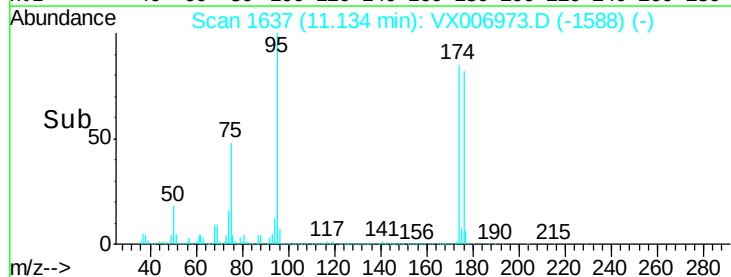
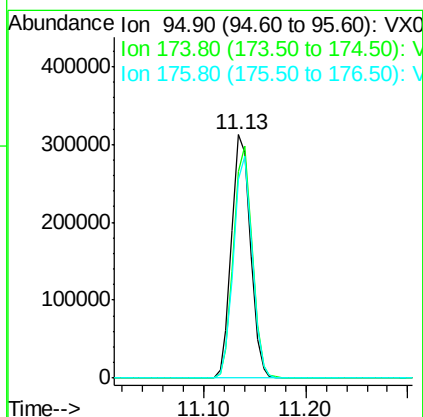
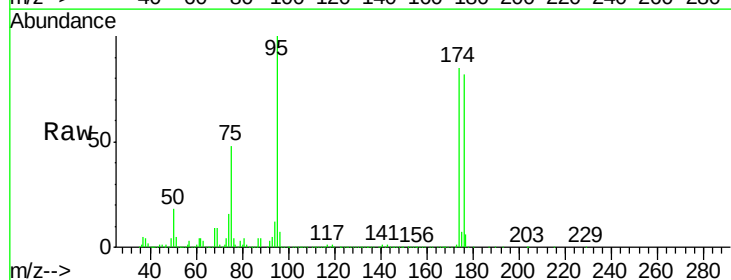
Instrument :
MSVOA_X
ClientSampleId :

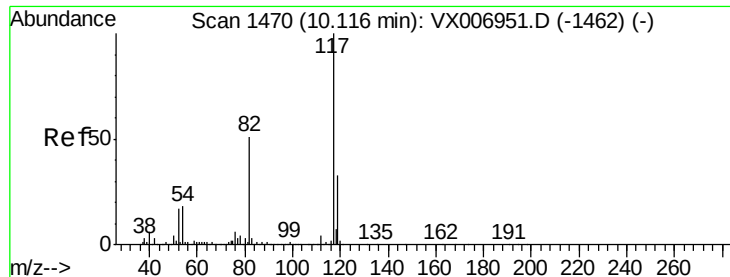
Tot Ion: 43 Resp: 177793
Ion Ratio Lower Upper
43 100
58 19.4 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 49.653 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX006973.D
Acq: 09 Jan 2019 18:46

Tgt Ion: 95 Resp: 399128
Ion Ratio Lower Upper
95 100
174 93.5 0.0 182.2
176 89.9 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.01 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

ClientSampleId :

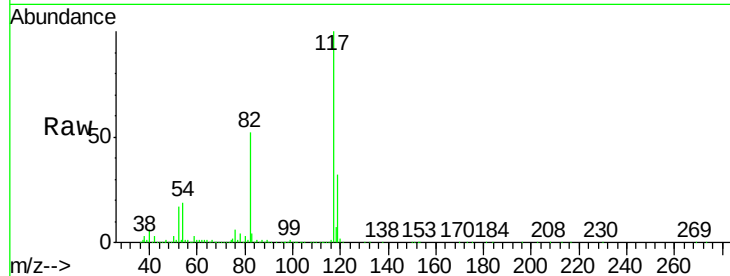
Tot Ion:117 Resp: 902541

Ion Ratio Lower Upper

117 100

82 51.9 41.0 61.6

119 31.6 25.4 38.0



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

10.11

800000

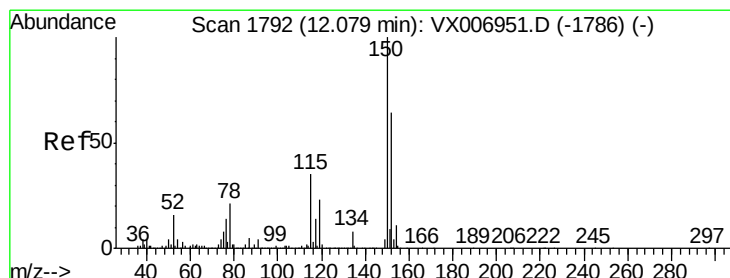
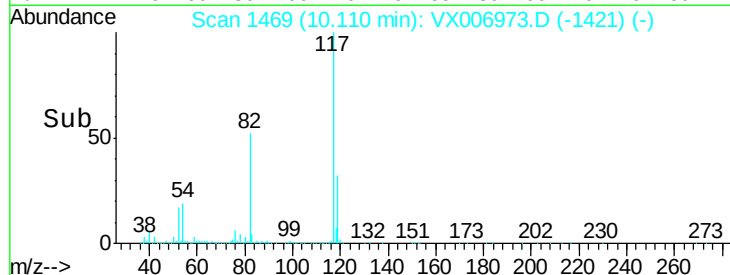
600000

400000

200000

0

Time--> 10.00 10.10 10.20



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

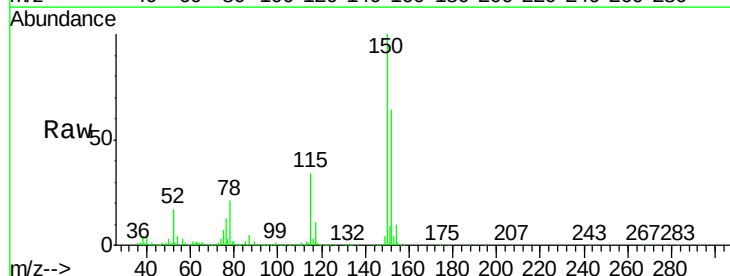
Tgt Ion:152 Resp: 423727

Ion Ratio Lower Upper

152 100

115 54.8 39.1 117.2

150 156.3 0.0 344.8



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

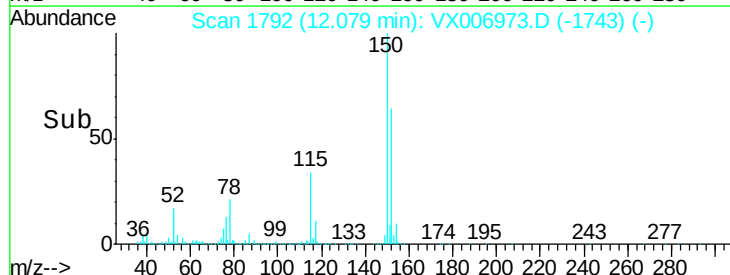
600000

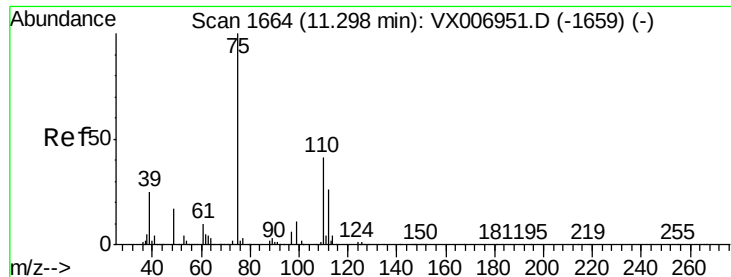
400000

200000

0

Time--> 12.00 12.10





#76

1,2,3-Trichloropropane

Concen: 22.155 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

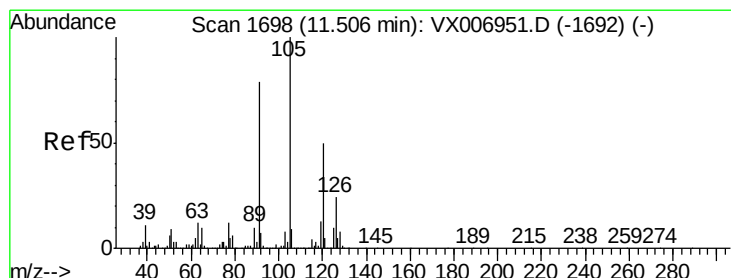
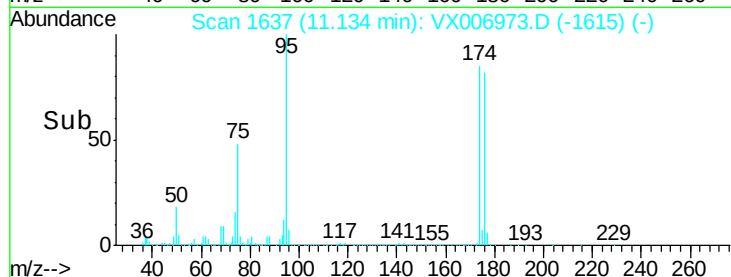
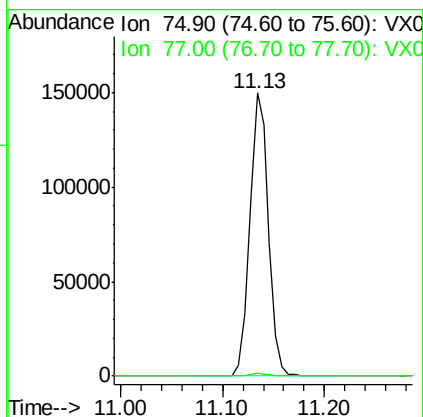
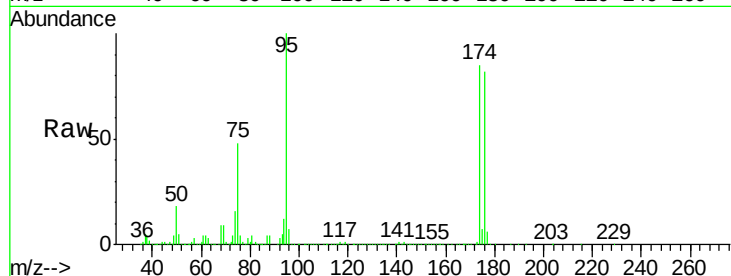
ClientSampleId :

Tot Ion: 75 Resp: 190238

Ion Ratio Lower Upper

75 100

77 1.3 18.5 55.5#



#80

1,3,5-Trimethylbenzene

Concen: 0.220 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX006973.D

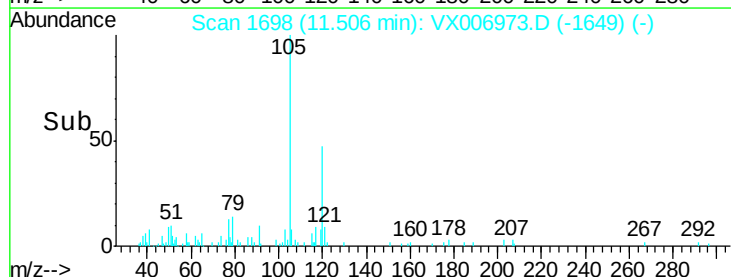
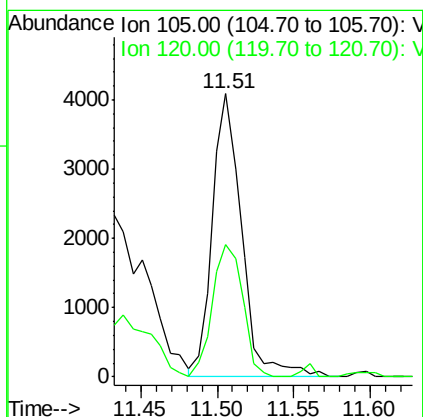
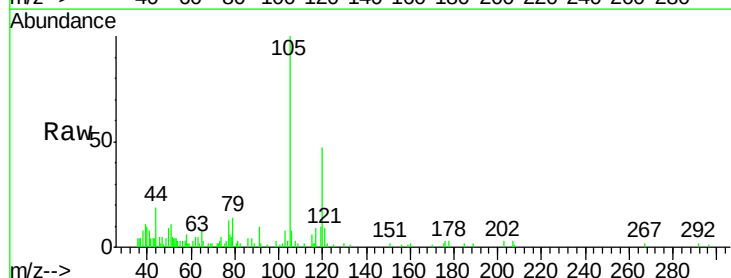
Acq: 09 Jan 2019 18:46

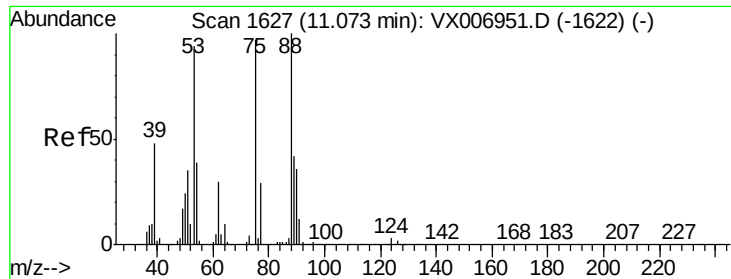
Tgt Ion:105 Resp: 5486

Ion Ratio Lower Upper

105 100

120 47.9 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 65.585 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

ClientSampleId :

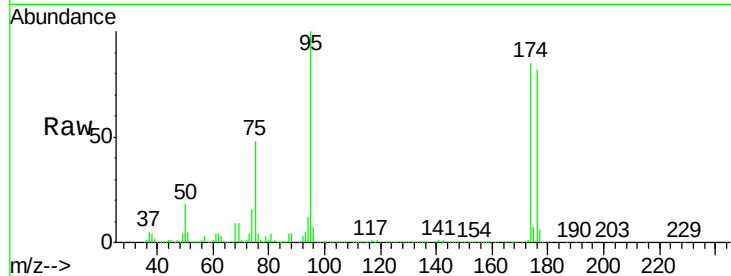
Tot Ion: 75 Resp: 190238

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

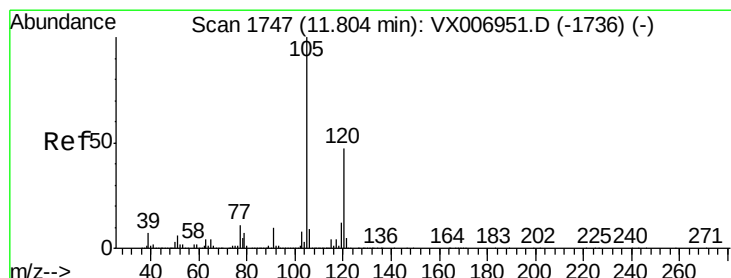
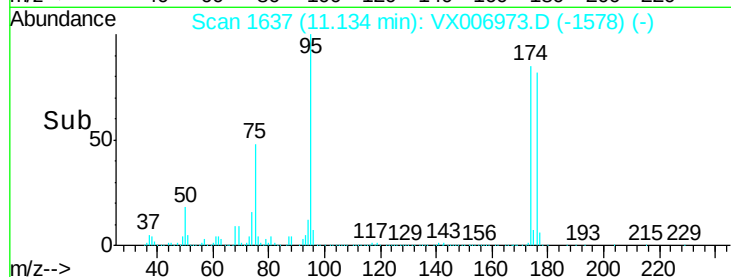
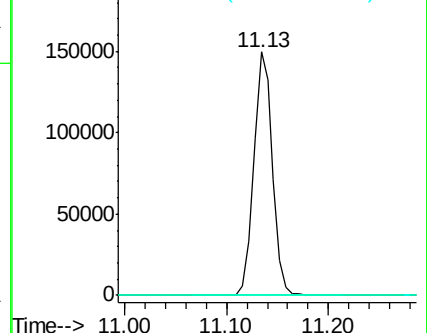
89 0.0 38.0 57.0#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.276 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX006973.D

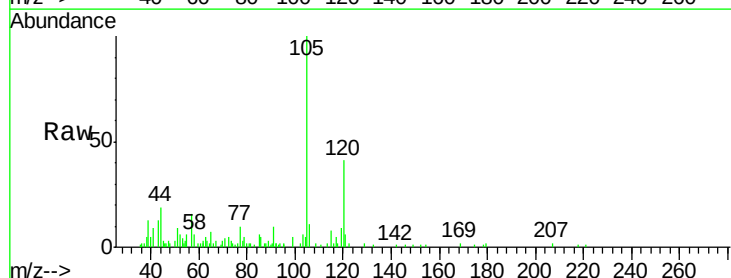
Acq: 09 Jan 2019 18:46

Tgt Ion: 105 Resp: 6924

Ion Ratio Lower Upper

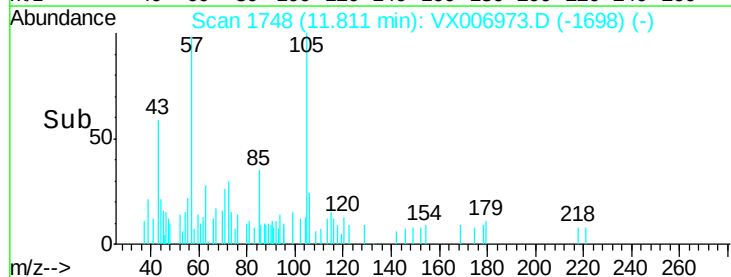
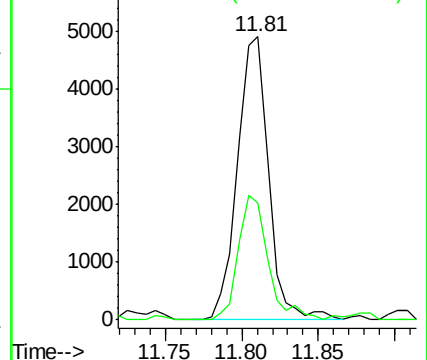
105 100

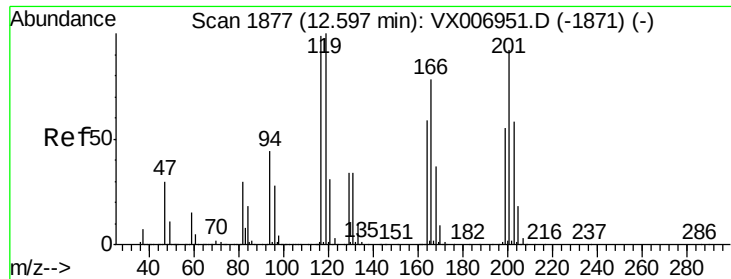
120 41.9 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 3.126 ug/l

RT: 12.59 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

Instrument :

MSVOA_X

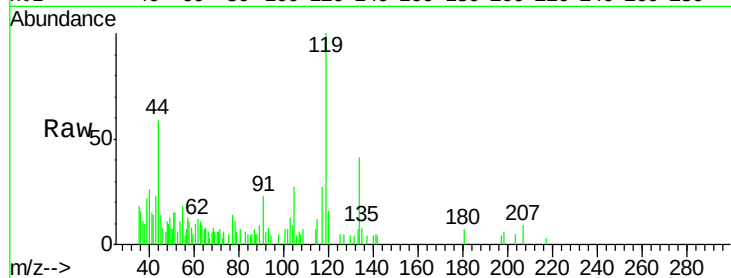
ClientSampleId :

Tot Ion:117 Resp: 984

Ion Ratio Lower Upper

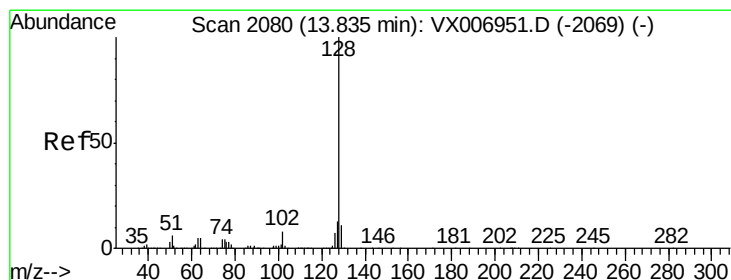
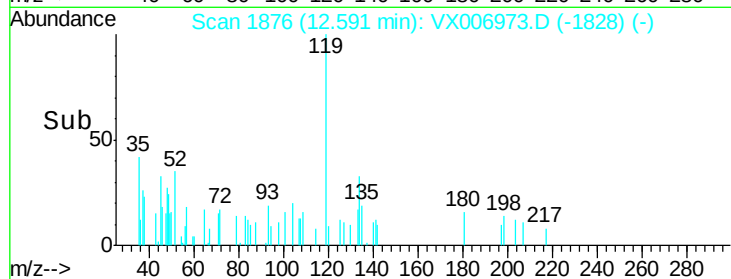
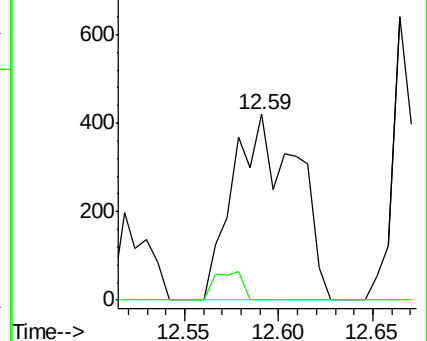
117 100

201 6.7 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.612 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX006973.D

Acq: 09 Jan 2019 18:46

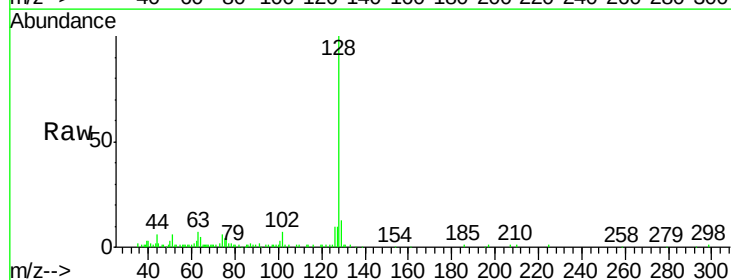
Tgt Ion:128 Resp: 18695

Ion Ratio Lower Upper

128 100

127 14.3 10.1 15.1

129 11.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

