

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX010919\
 Data File : VX006972.D
 Acq On : 09 Jan 2019 18:20
 Operator : JC/MD
 Sample : K1006-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 10 00:58:17 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	643511	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	986514	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	914750	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	444163	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	336773	50.08	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.16%	
35) Dibromofluoromethane	5.50	113	302132	47.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.64%	
50) Toluene-d8	8.71	98	1180437	51.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.10%	
62) 4-Bromofluorobenzene	11.13	95	416235	51.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.26%	

Target Compounds

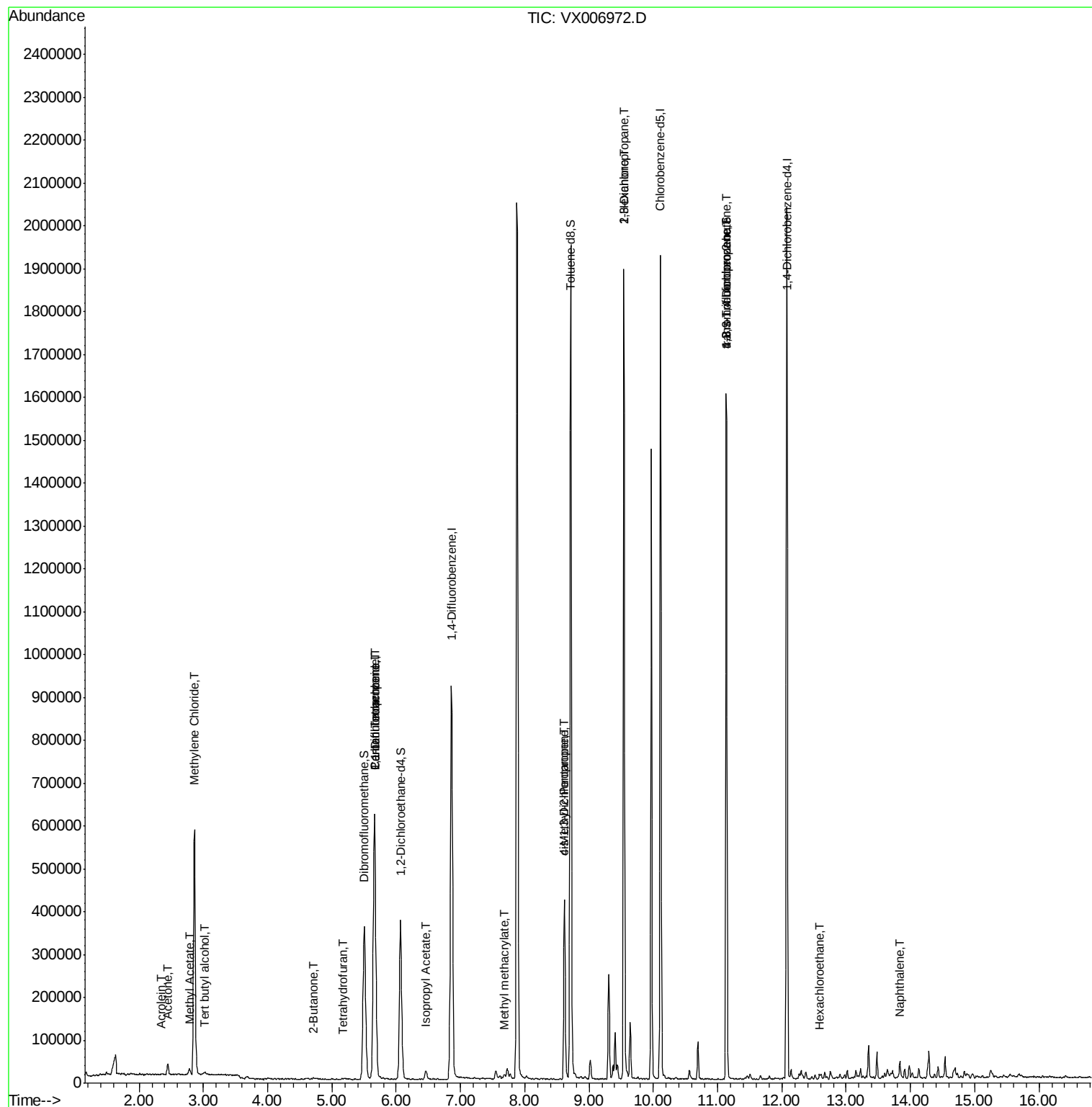
					Qvalue	
11) Tert butyl alcohol	3.02	59	5413	3.412	ug/l #	86
13) Acrolein	2.33	56	213	3.392	ug/l #	47
16) Acetone	2.45	43	28215	8.486	ug/l	100
18) Methyl Acetate	2.78	43	17657	1.834	ug/l	97
20) Methylene Chloride	2.86	84	269614	42.551	ug/l	97
25) 2-Butanone	4.70	43	3281	0.690	ug/l #	86
29) Tetrahydrofuran	5.16	42	1449	0.469	ug/l #	56
36) 1,1-Dichloropropene	5.67	75	40729	4.749	ug/l #	49
38) Carbon Tetrachloride	5.67	117	58447	6.773	ug/l #	16
43) Isopropyl Acetate	6.46	43	27397	1.889	ug/l	99
48) Methyl methacrylate	7.68	41	13661	1.834	ug/l #	11
49) 1,4-Dioxane	7.74	88	263	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	134518	14.431	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	69280	7.188	ug/l #	61
57) 1,3-Dichloropropane	9.54	76	16453	1.492	ug/l #	44
59) 2-Hexanone	9.54	43	207347	29.190	ug/l #	50
76) 1,2,3-Trichloropropane	11.13	75	196977	21.884	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	196977	64.830	ug/l #	10
90) Hexachloroethane	12.58	117	542	3.023	ug/l #	6
95) Naphthalene	13.83	128	25101	0.784	ug/l	97

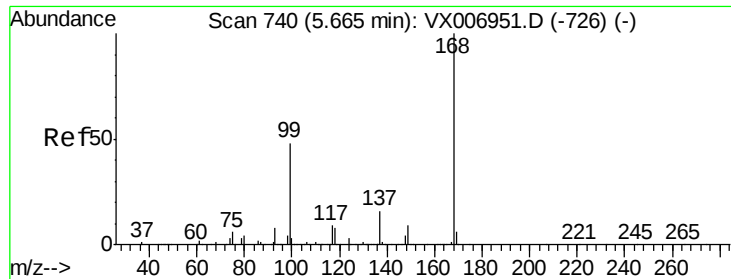
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006972.D

Acq: 09 Jan 2019 18:20

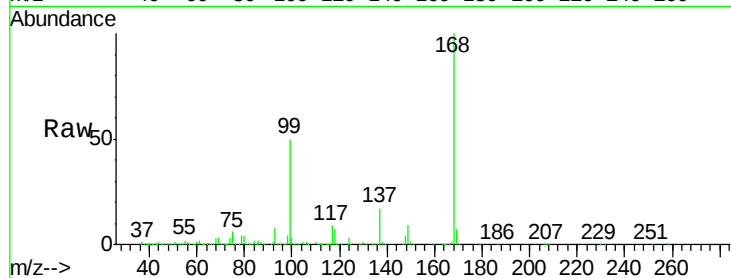
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 643511

Ion Ratio Lower Upper

168 100

99 50.1 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

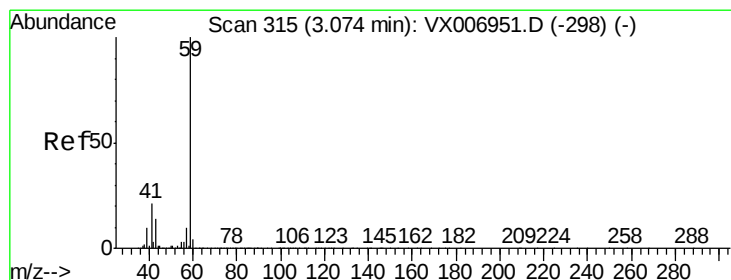
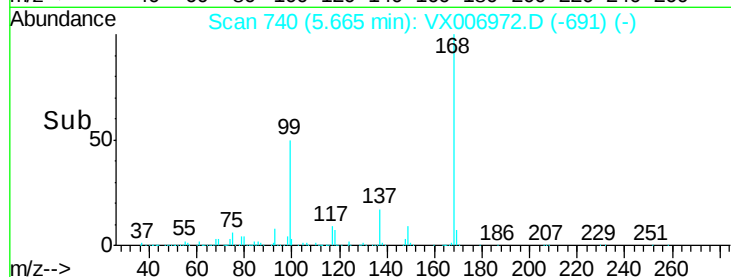
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 3.412 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX006972.D

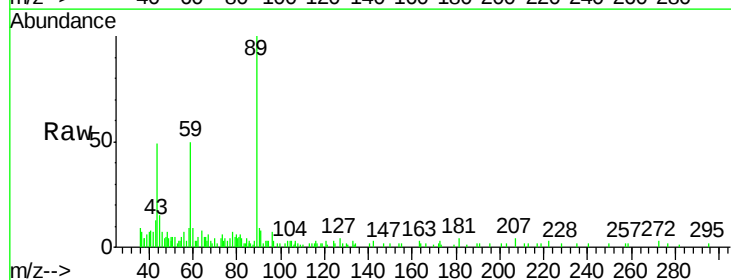
Acq: 09 Jan 2019 18:20

Tgt Ion: 59 Resp: 5413

Ion Ratio Lower Upper

59 100

57 5.5 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.02

2000

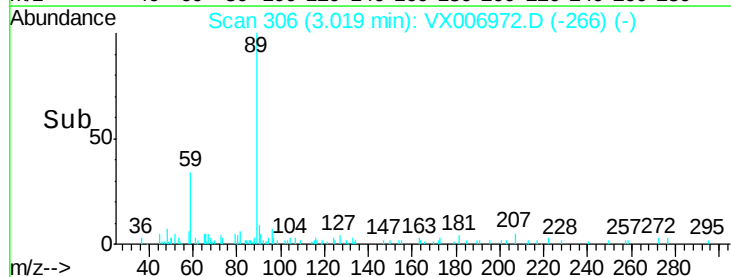
1500

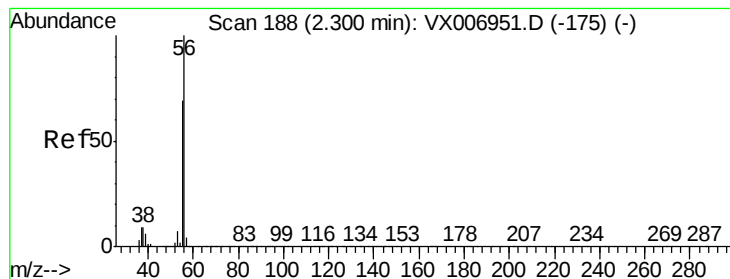
1000

500

0

Time--> 2.90 3.00 3.10





#13

Acrolein

Concen: 3.392 ug/l

RT: 2.33 min Scan# 193

Delta R.T. 0.03 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA_X

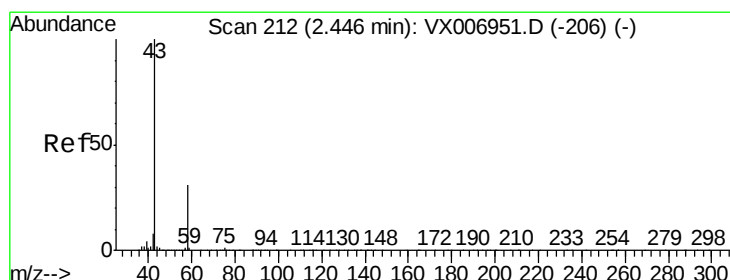
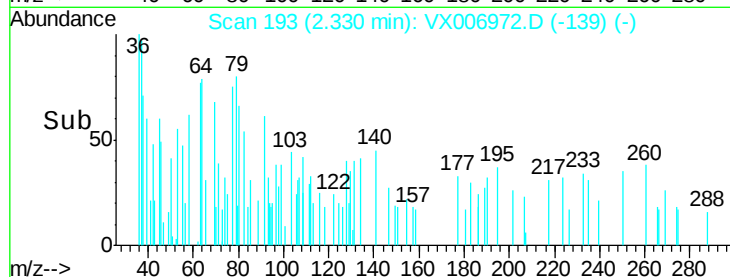
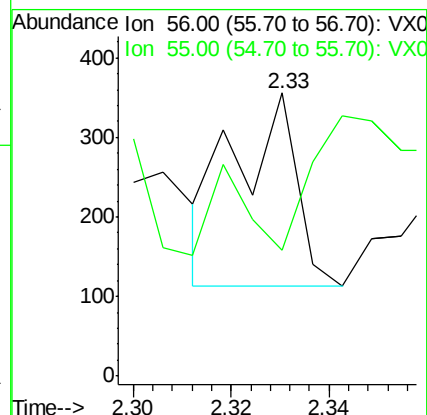
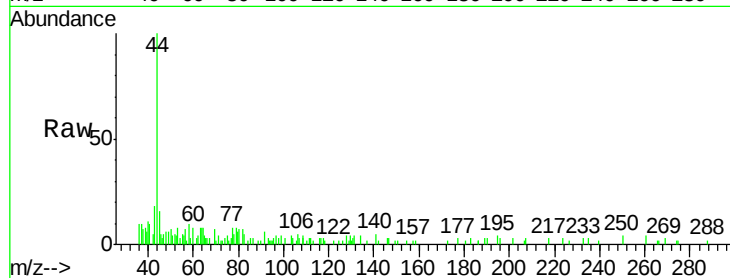
ClientSampleId :

Tot Ion: 56 Resp: 213

Ion Ratio Lower Upper

56 100

55 28.6 58.2 87.4#



#16

Acetone

Concen: 8.486 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX006972.D

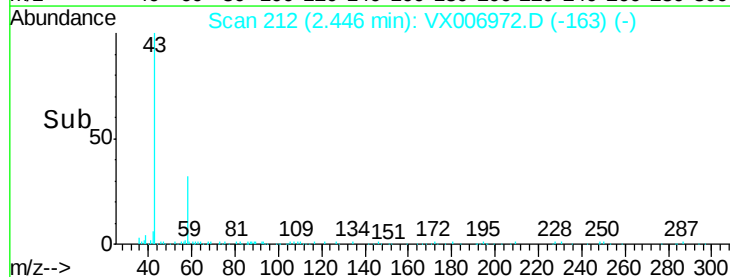
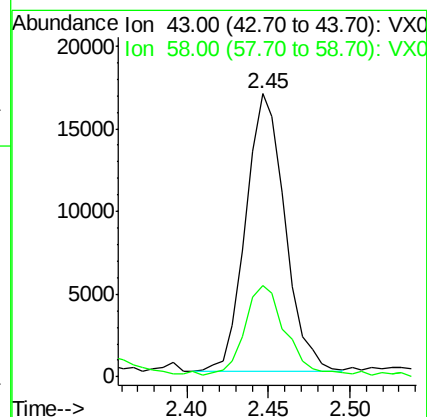
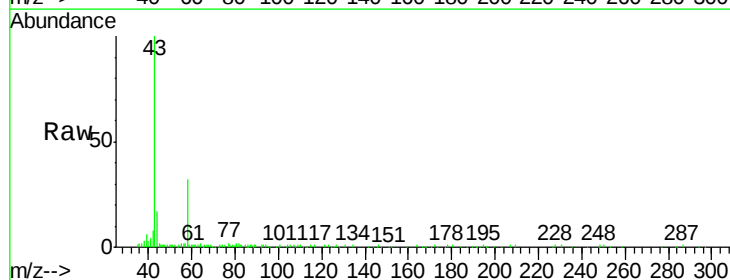
Acq: 09 Jan 2019 18:20

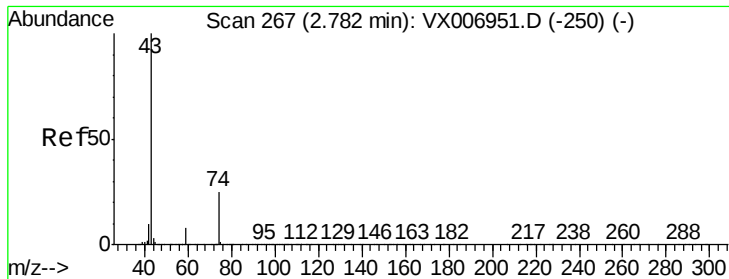
Tgt Ion: 43 Resp: 28215

Ion Ratio Lower Upper

43 100

58 31.3 25.0 37.6





#18

Methyl Acetate

Concen: 1.834 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA_X

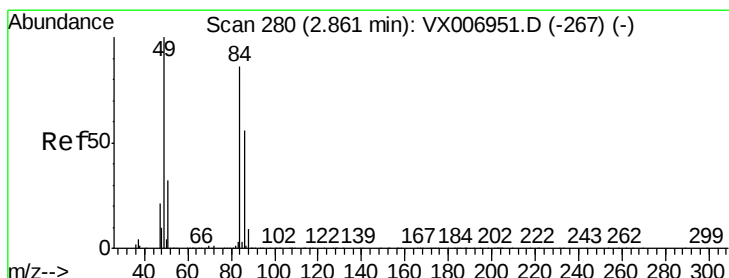
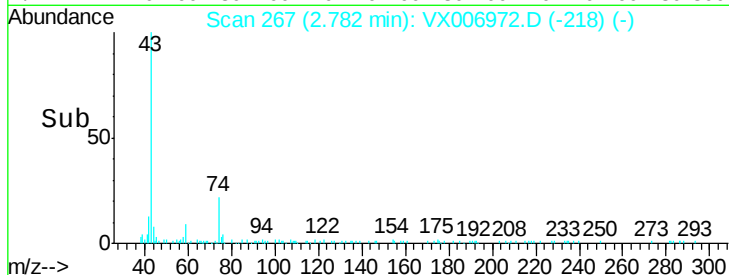
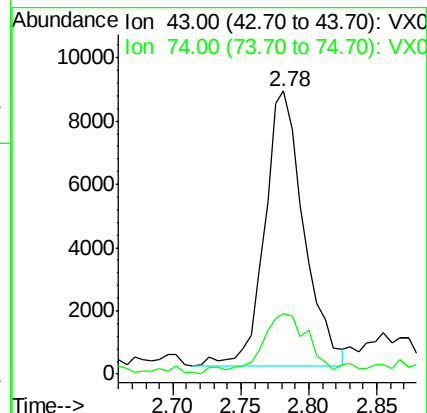
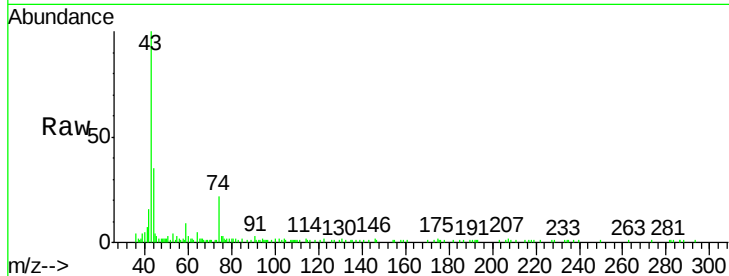
ClientSampleId :

Tot Ion: 43 Resp: 17657

Ion Ratio Lower Upper

43 100

74 21.9 18.6 28.0



#20

Methylene Chloride

Concen: 42.551 ug/l

RT: 2.86 min Scan# 280

Delta R.T. 0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Tgt Ion: 84 Resp: 269614

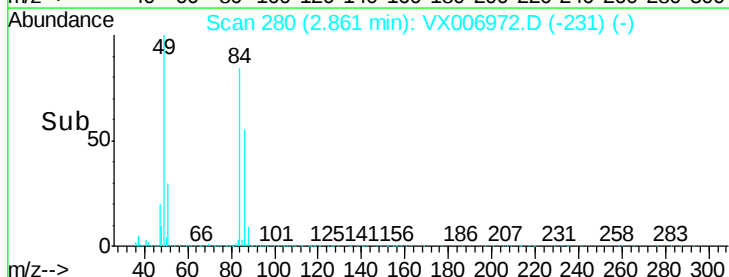
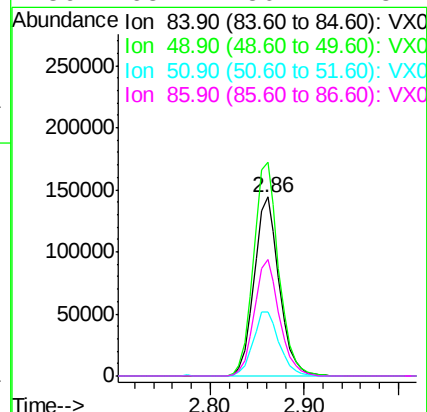
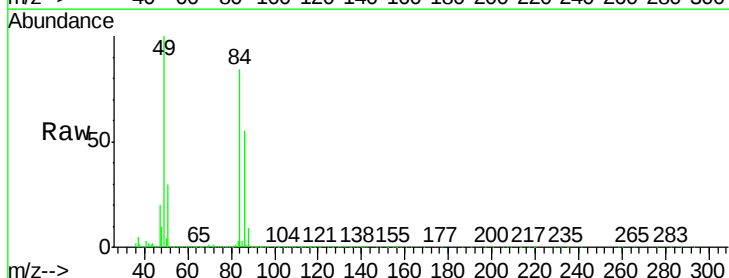
Ion Ratio Lower Upper

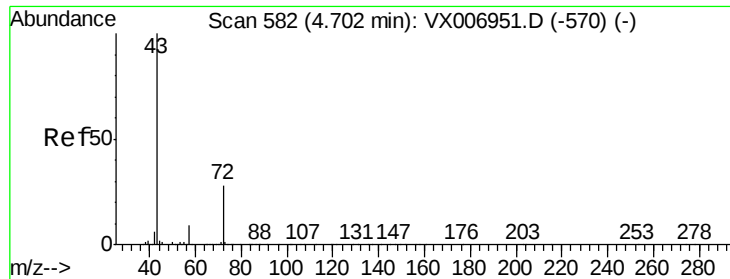
84 100

49 119.4 91.8 137.6

51 35.7 28.5 42.7

86 65.4 50.2 75.2





#25

2-Butanone

Concen: 0.690 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

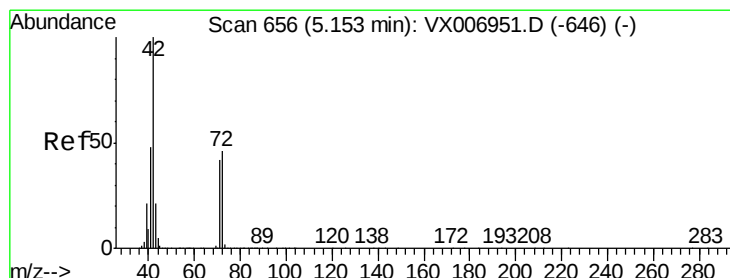
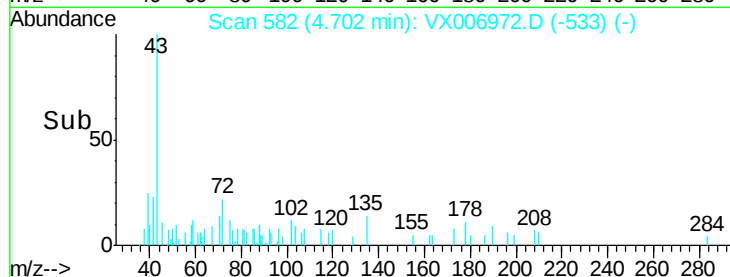
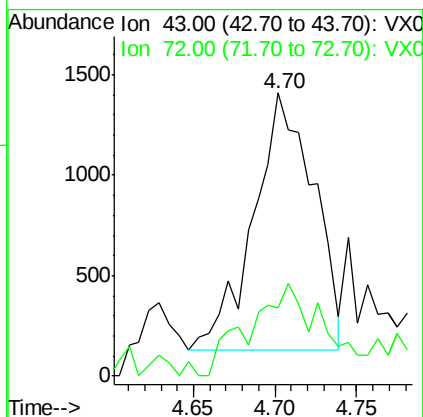
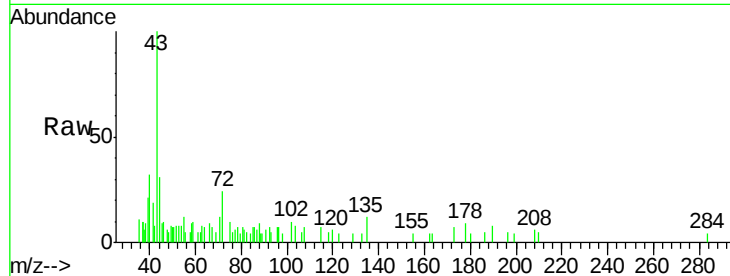
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 3281

Ion Ratio Lower Upper

43 100

72 20.6 22.4 33.6#



#29

Tetrahydrofuran

Concen: 0.469 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

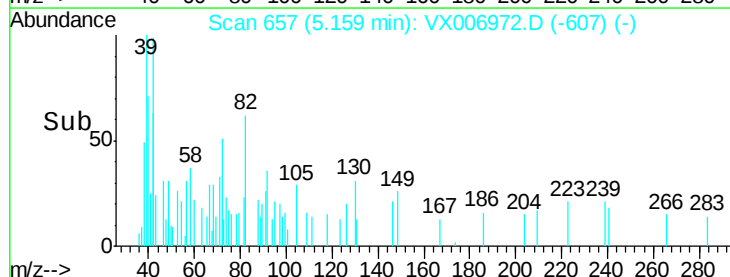
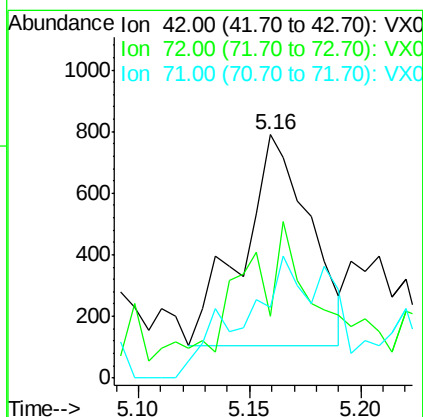
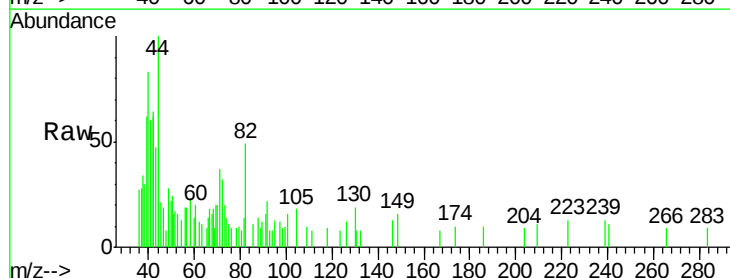
Tgt Ion: 42 Resp: 1449

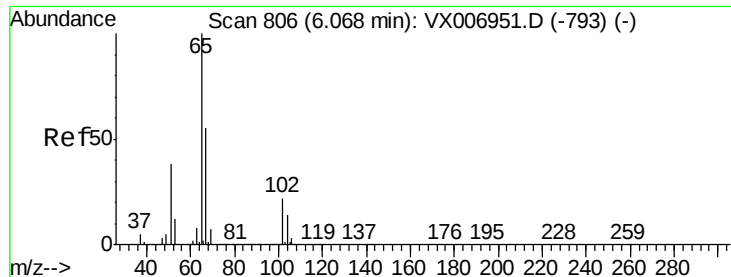
Ion Ratio Lower Upper

42 100

72 22.3 38.9 58.3#

71 77.9 36.2 54.4#





#33

1,2-Dichloroethane-d4

Concen: 50.076 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA_X

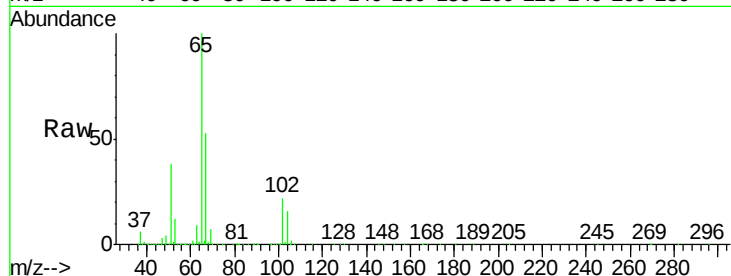
ClientSampleId :

Tot Ion: 65 Resp: 336773

Ion Ratio Lower Upper

65 100

67 54.1 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

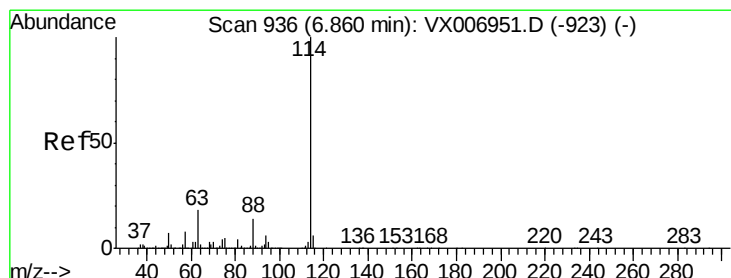
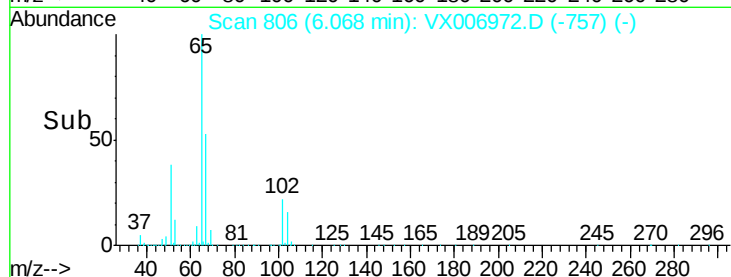
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

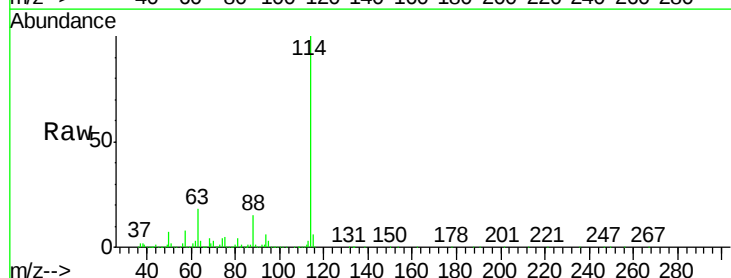
Tgt Ion: 114 Resp: 986514

Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.8

88 15.0 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

6.86

500000

400000

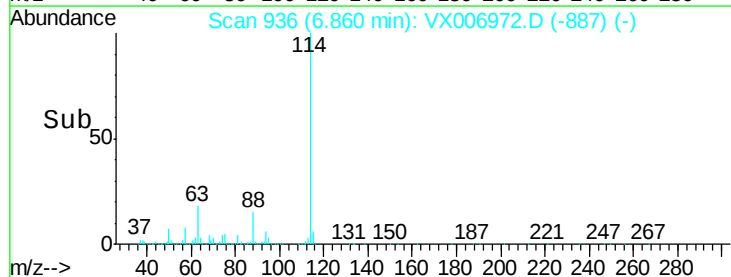
300000

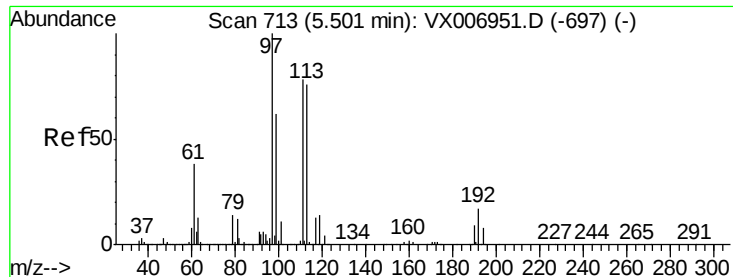
200000

100000

0

Time-->

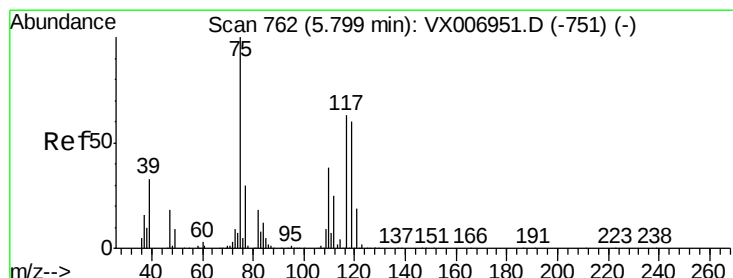
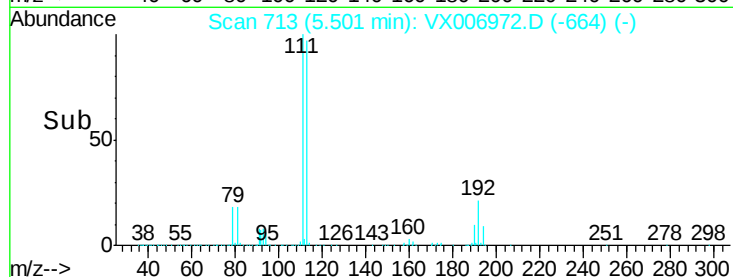
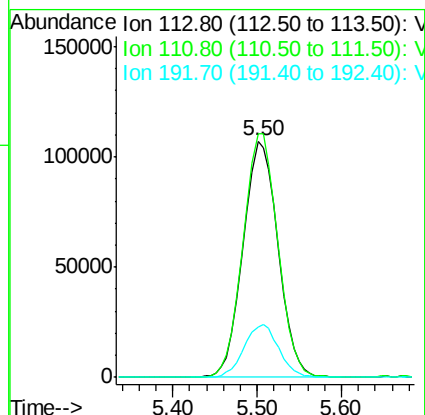
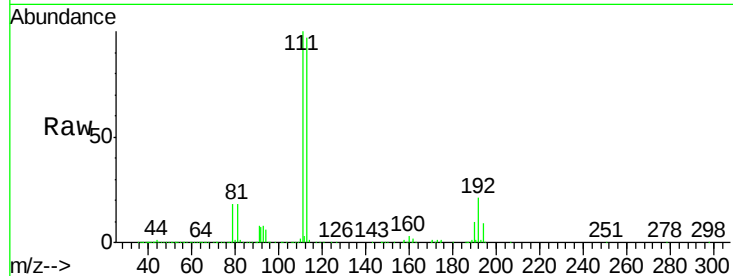




#35
 Dibromofluoromethane
 Concen: 47.824 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. -0.00 min
 Lab File: VX006972.D
 Acq: 09 Jan 2019 18:20

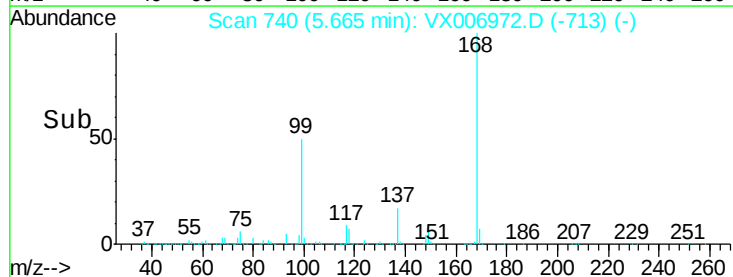
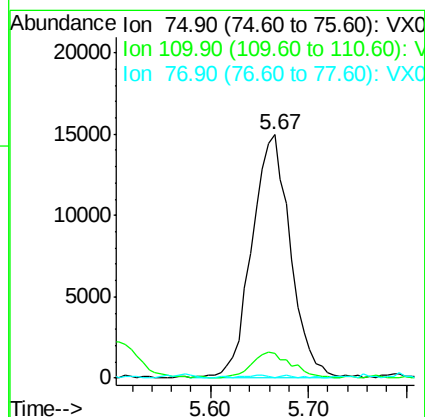
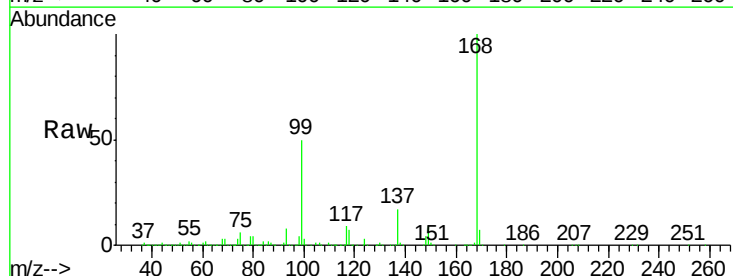
Instrument :
 MSVOA_X
 ClientSampled :

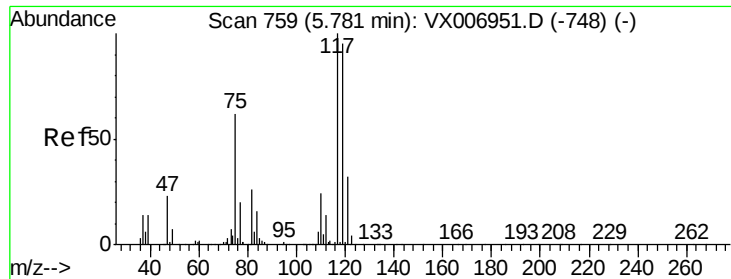
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	81.6	122.4
192	22.1	16.7	25.1



#36
 1,1-Dichloropropene
 Concen: 4.749 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX006972.D
 Acq: 09 Jan 2019 18:20

Tgt Ion	Ratio	Lower	Upper
75	100		
110	11.1	20.2	60.5#
77	0.7	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 6.773 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA_X

ClientSampled :

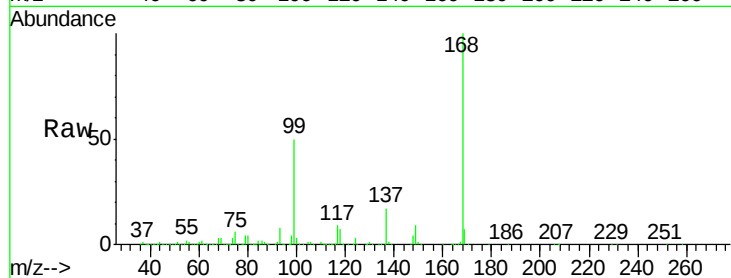
Tot Ion:117 Resp: 58447

Ion Ratio Lower Upper

117 100

119 6.4 79.4 119.2#

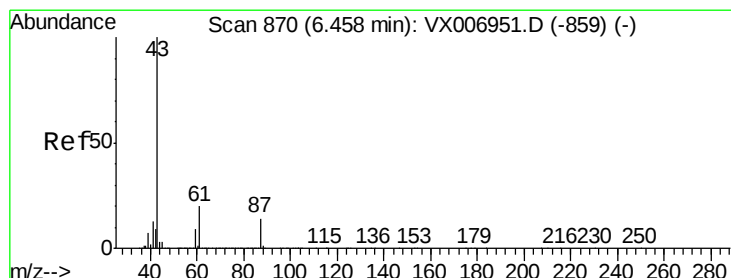
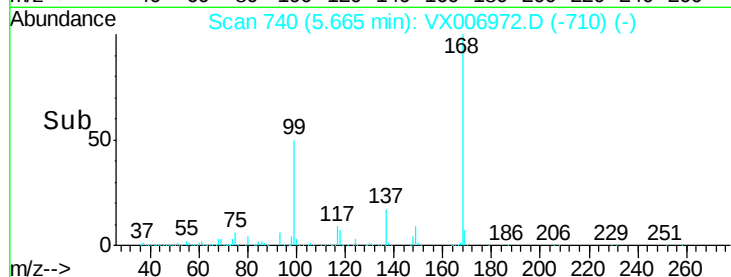
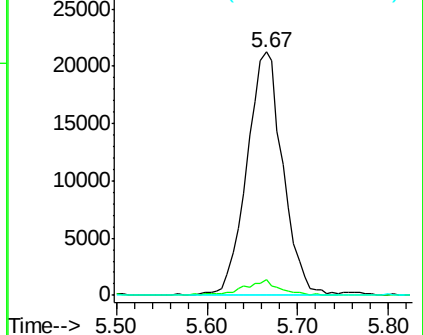
121 0.3 24.0 36.0#



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: 1.889 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

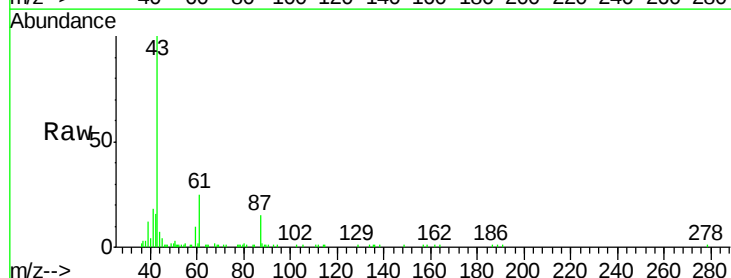
Tgt Ion: 43 Resp: 27397

Ion Ratio Lower Upper

43 100

61 21.6 16.8 25.2

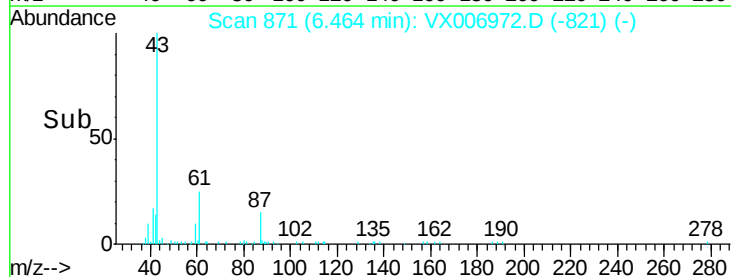
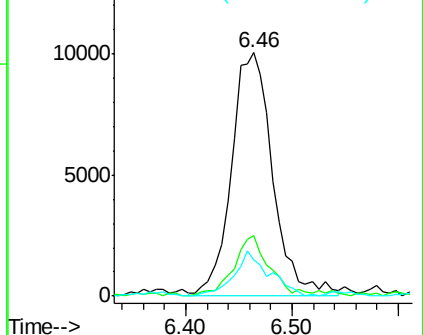
87 15.8 12.4 18.6

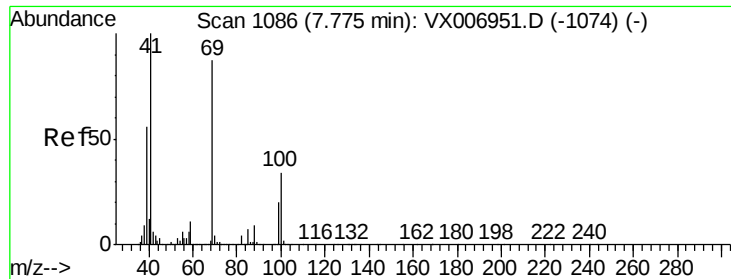


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

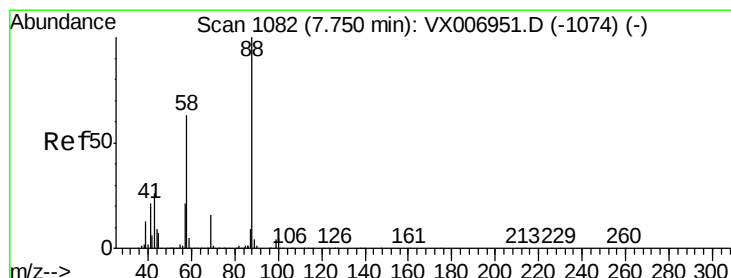
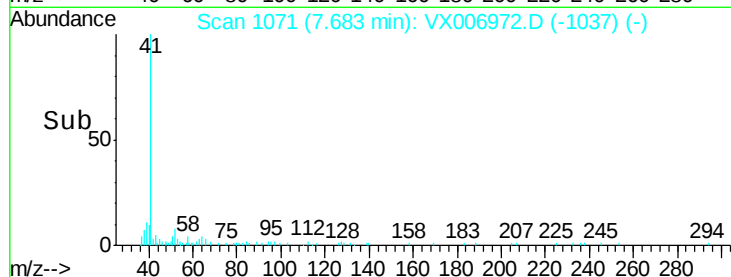
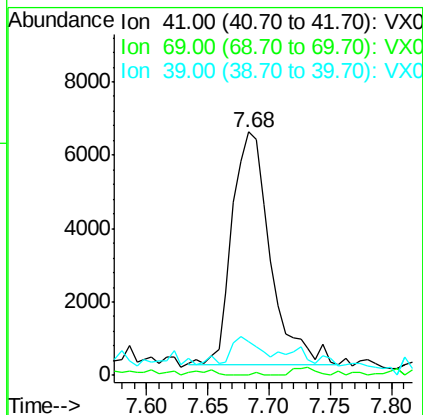
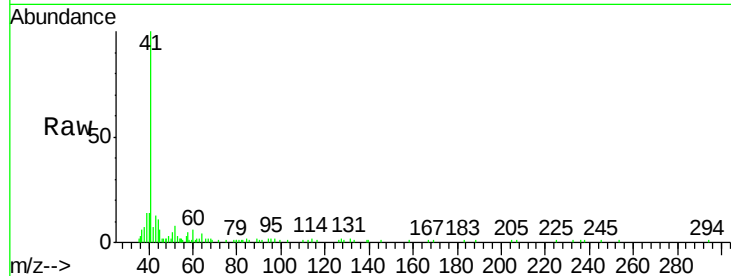




#48
Methvl methacrylate
Concen: 1.834 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX006972.D
Acq: 09 Jan 2019 18:20

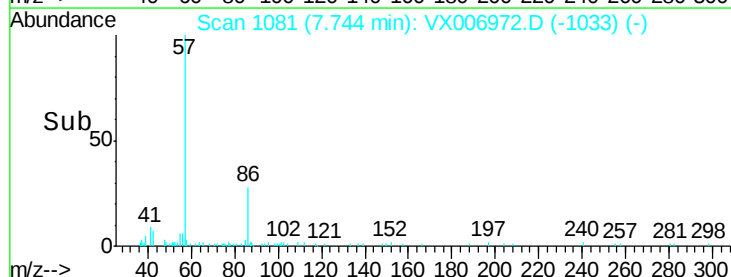
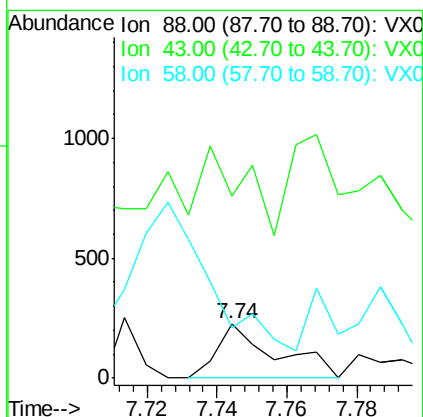
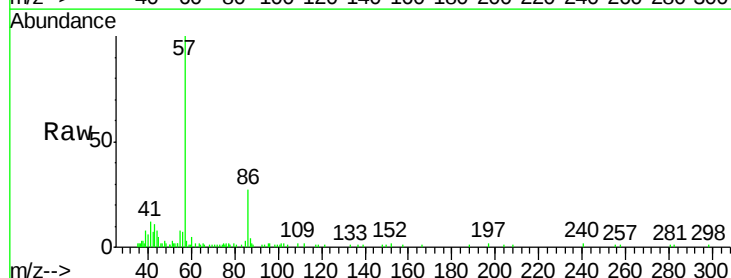
Instrument :
MSVOA_X
ClientSampleId :

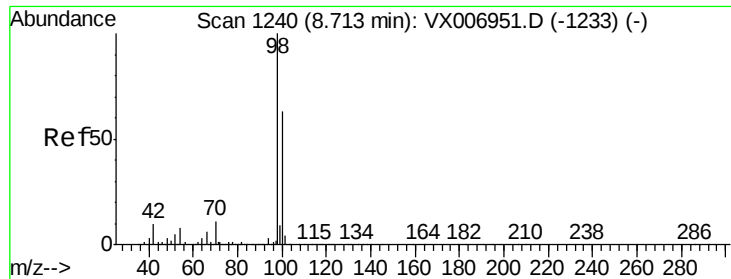
Tot Ion: 41 Resp: 13661
Ion Ratio Lower Upper
41 100
69 0.2 72.4 108.6#
39 0.0 45.8 68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.74 min Scan# 1081
Delta R.T. -0.01 min
Lab File: VX006972.D
Acq: 09 Jan 2019 18:20

Tgt Ion: 88 Resp: 263
Ion Ratio Lower Upper
88 100
43 0.0 22.2 33.4#
58 0.0 51.0 76.4#





#50

Toluene-d8

Concen: 51.047 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA_X

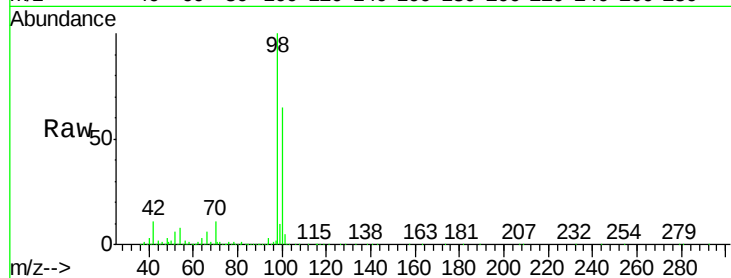
ClientSampleId :

Tot Ion: 98 Resp: 1180437

Ion Ratio Lower Upper

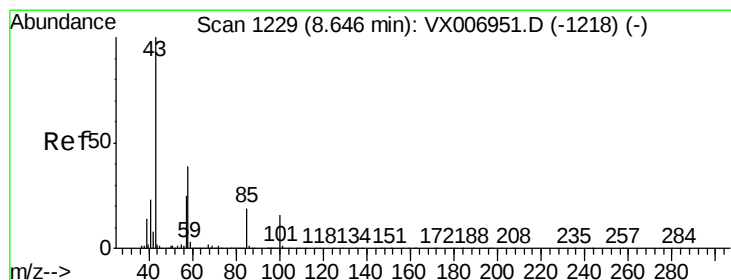
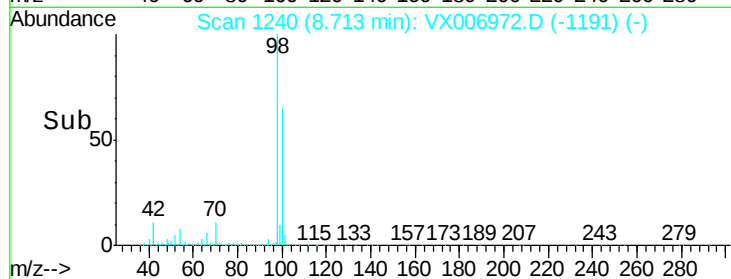
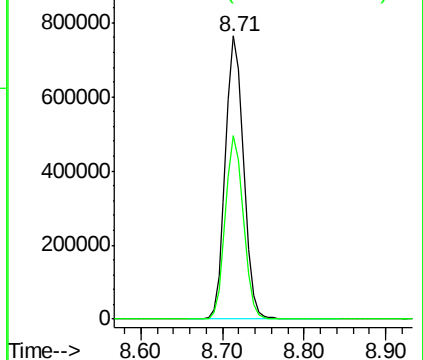
98 100

100 64.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#51

4-Methyl-2-Pentanone

Concen: 14.431 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX006972.D

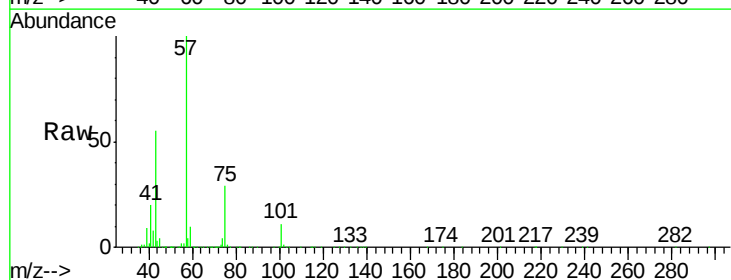
Acq: 09 Jan 2019 18:20

Tgt Ion: 43 Resp: 134518

Ion Ratio Lower Upper

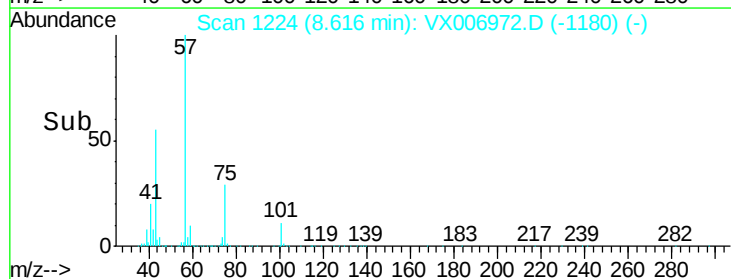
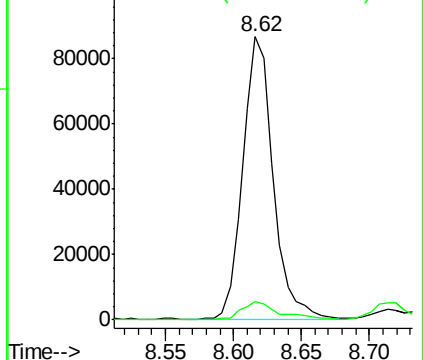
43 100

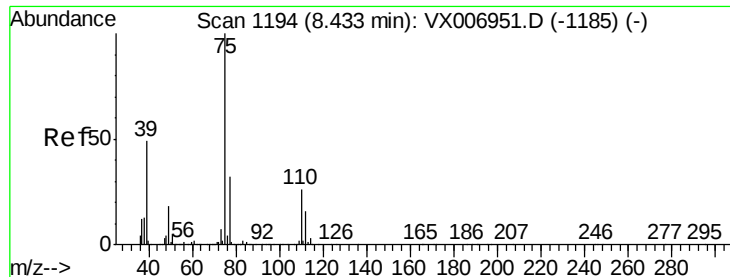
58 8.1 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



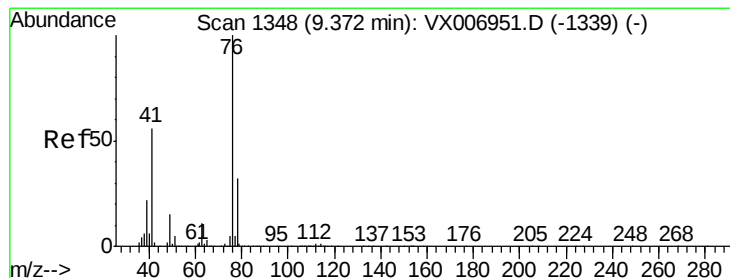
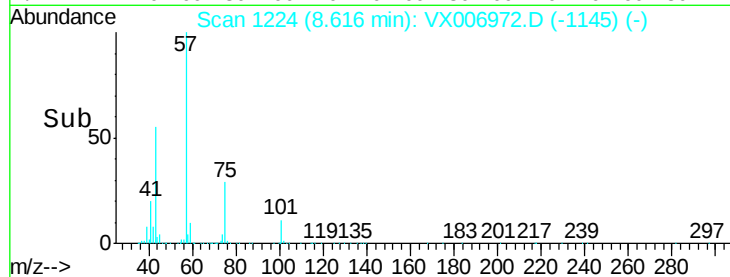
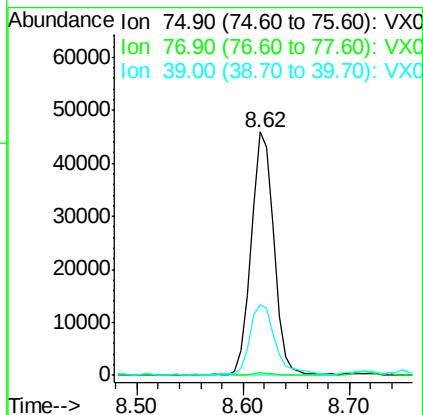
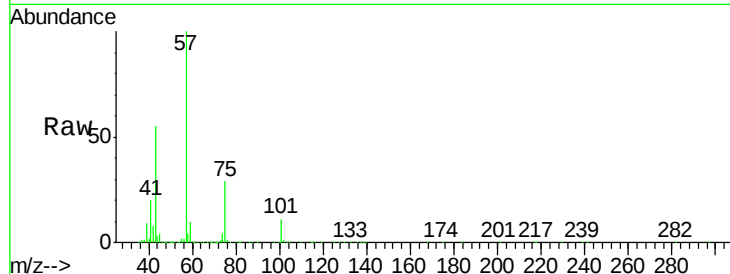


#54

cis-1,3-Dichloropropene
Concen: 7.188 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. 0.18 min
Lab File: VX006972.D
Acq: 09 Jan 2019 18:20

Instrument :
MSVOA_X
ClientSampleId :

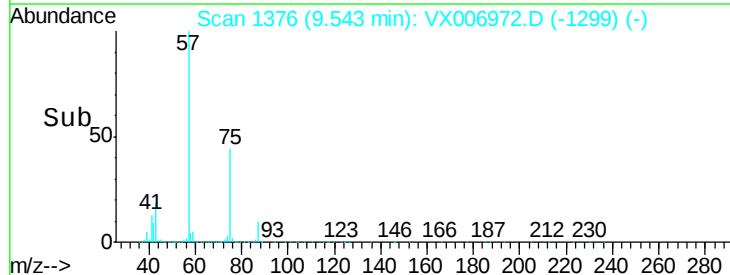
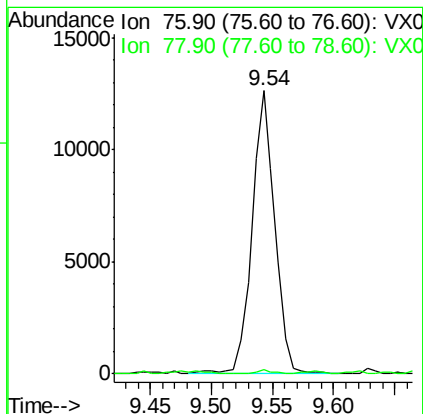
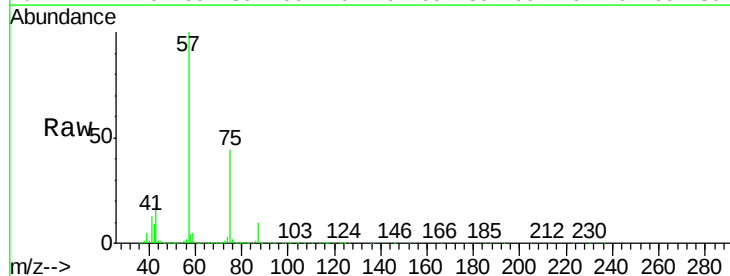
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.9	26.2	39.2#
39	28.6	36.7	55.1#

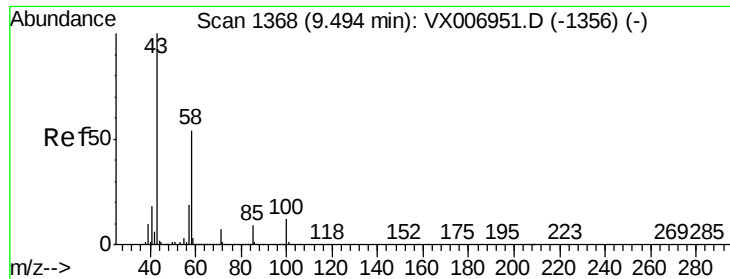


#57

1,3-Dichloropropane
Concen: 1.492 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.17 min
Lab File: VX006972.D
Acq: 09 Jan 2019 18:20

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.9	26.0	39.0#

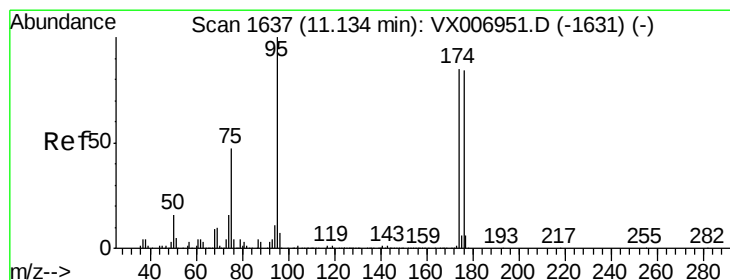
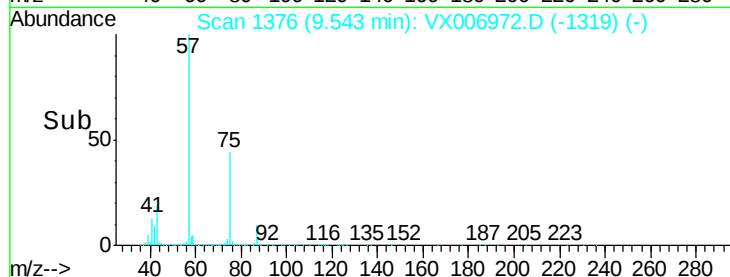
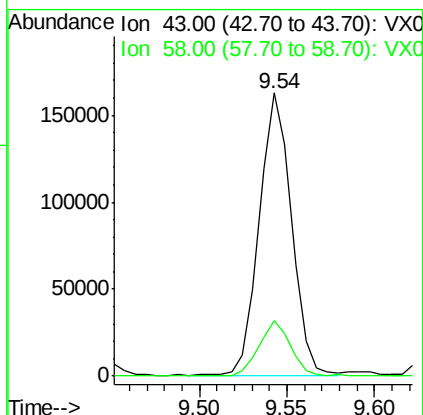
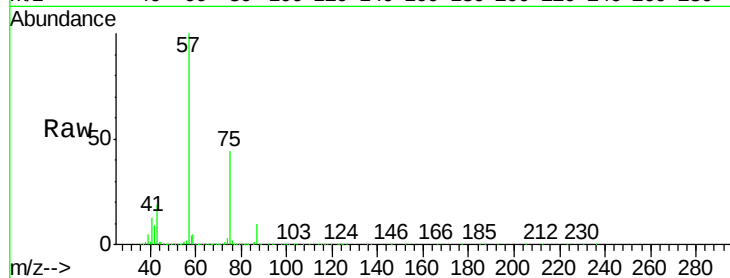




#59
2-Hexanone
Concen: 29.190 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX006972.D
Acq: 09 Jan 2019 18:20

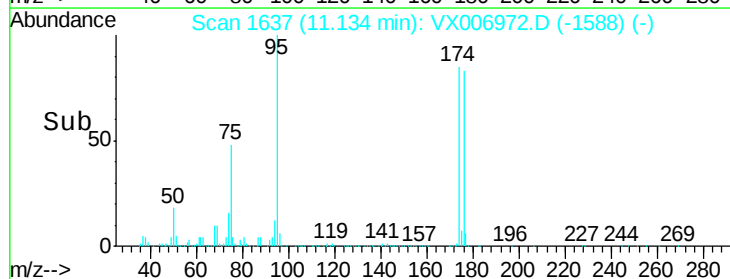
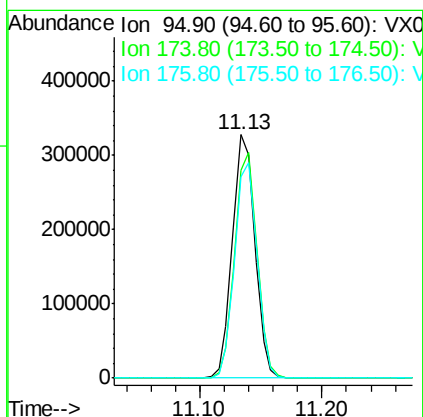
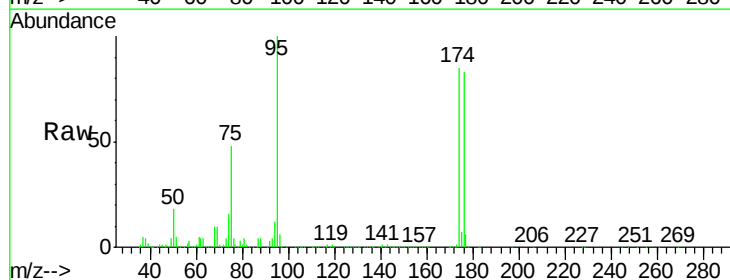
Instrument :
MSVOA_X
ClientSampleId :

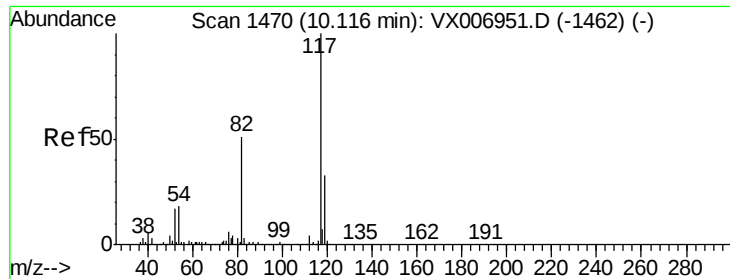
Tot Ion: 43 Resp: 207347
Ion Ratio Lower Upper
43 100
58 19.3 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 51.631 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006972.D
Acq: 09 Jan 2019 18:20

Tgt Ion: 95 Resp: 416235
Ion Ratio Lower Upper
95 100
174 92.1 0.0 182.2
176 88.8 0.0 178.8

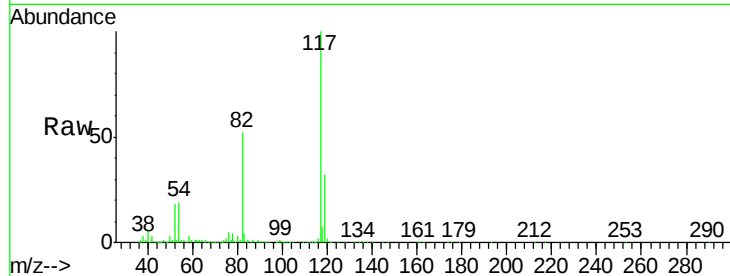




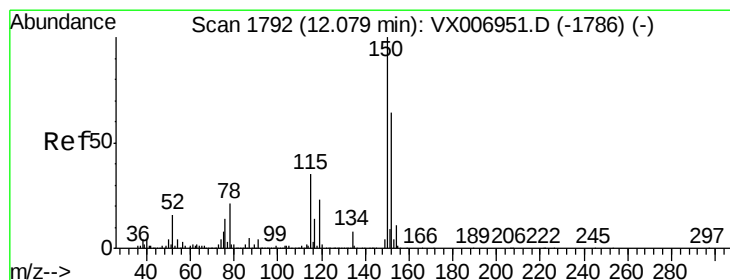
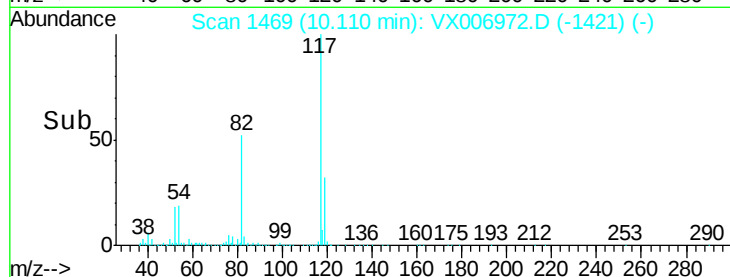
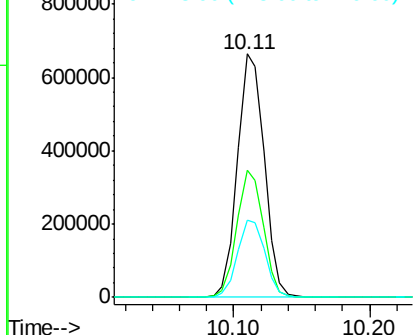
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX006972.D
Acq: 09 Jan 2019 18:20

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 914750
Ion Ratio Lower Upper
117 100
82 52.4 41.0 61.6
119 32.0 25.4 38.0

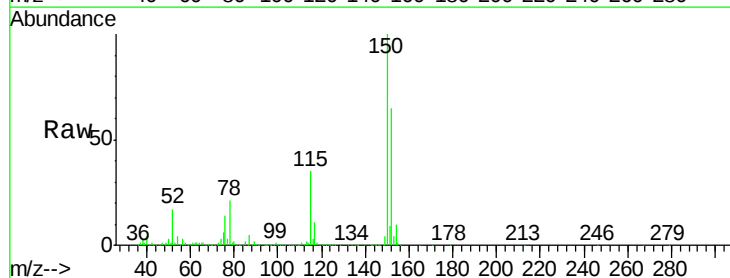


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

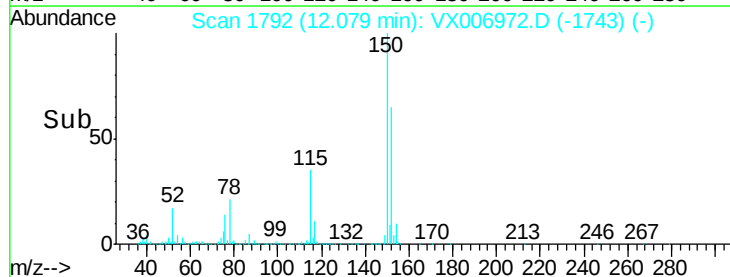
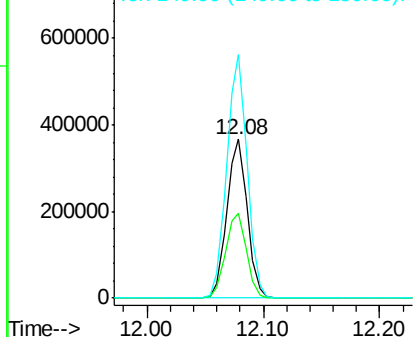


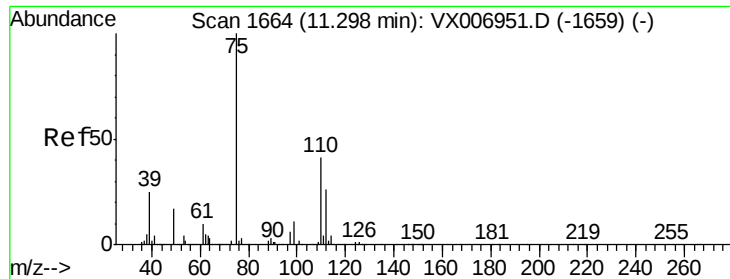
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX006972.D
Acq: 09 Jan 2019 18:20

Tgt Ion:152 Resp: 444163
Ion Ratio Lower Upper
152 100
115 54.7 39.1 117.2
150 153.4 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





#76

1,2,3-Trichloropropane

Concen: 21.884 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA_X

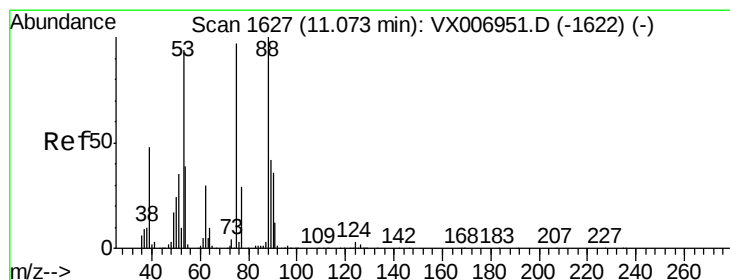
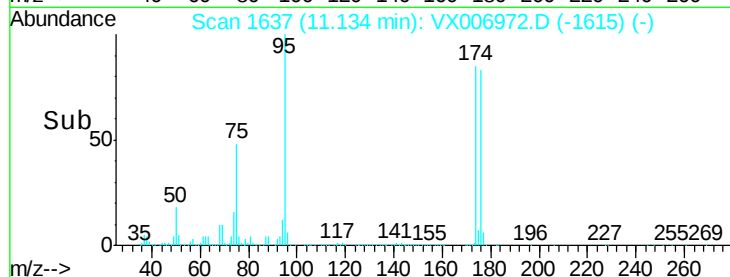
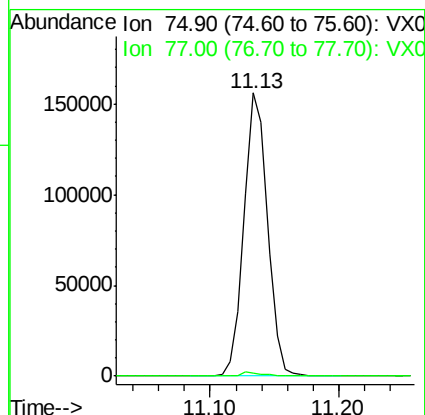
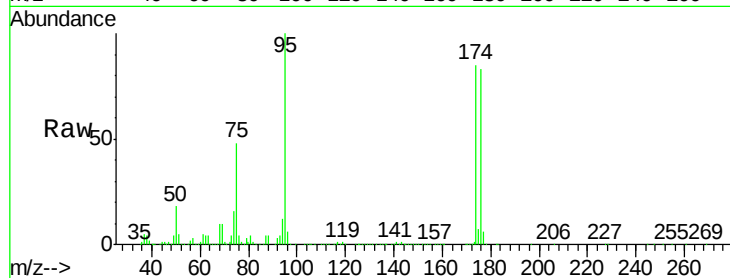
ClientSampleId :

Tot Ion: 75 Resp: 196977

Ion Ratio Lower Upper

75 100

77 1.3 18.5 55.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.830 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

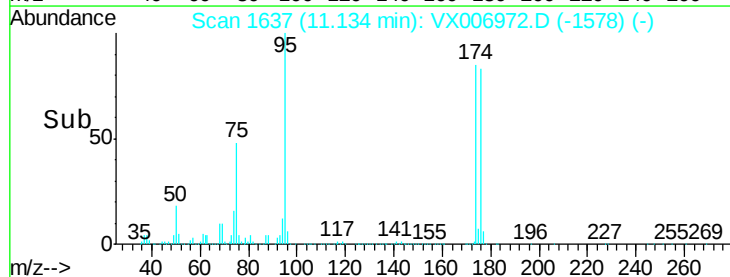
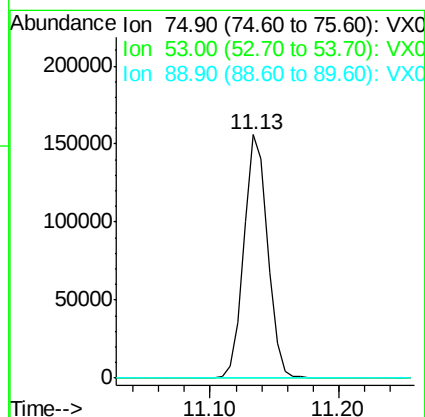
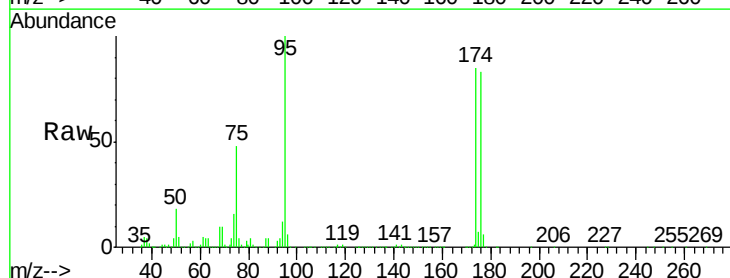
Tgt Ion: 75 Resp: 196977

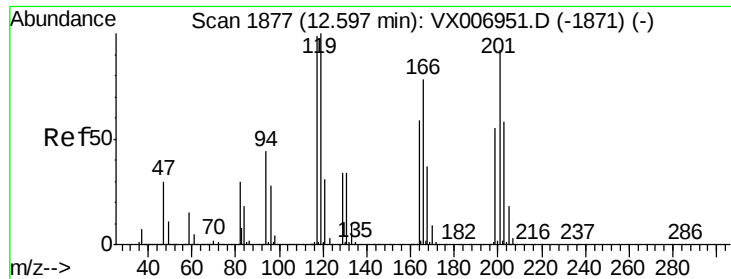
Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.0 38.0 57.0#





#90

Hexachloroethane

Concen: 3.023 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

Instrument :

MSVOA_X

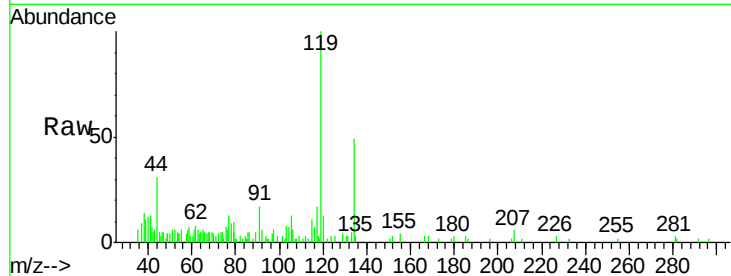
ClientSampleId :

Tot Ion:117 Resp: 542

Ion Ratio Lower Upper

117 100

201 0.0 42.9 128.7#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

600

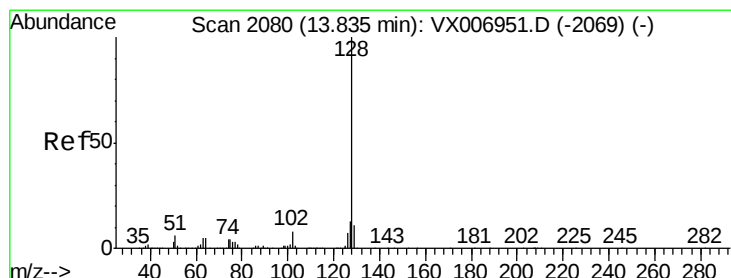
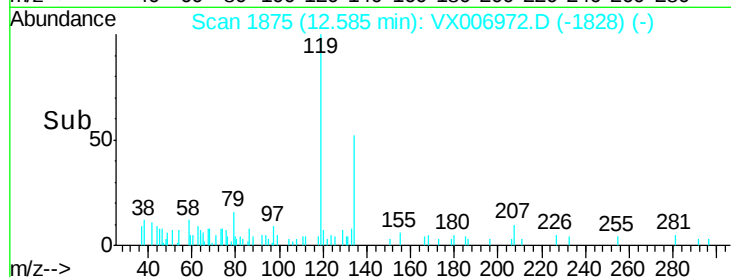
400

200

0

12.54 12.56 12.58 12.60

Time-->



#95

Naphthalene

Concen: 0.784 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX006972.D

Acq: 09 Jan 2019 18:20

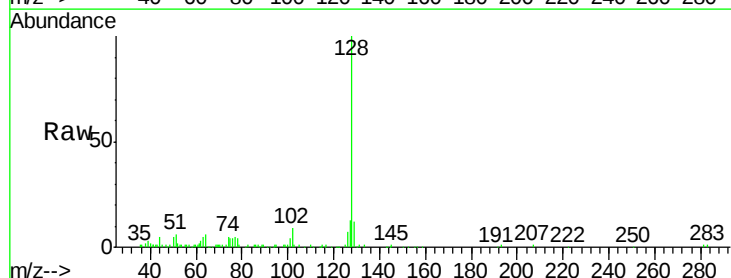
Tgt Ion:128 Resp: 25101

Ion Ratio Lower Upper

128 100

127 13.5 10.1 15.1

129 12.0 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

25000

20000

15000

10000

5000

0

13.75 13.80 13.85 13.90

Time-->

