

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122018\
 Data File : VX006675.D
 Acq On : 20 Dec 2018 14:54
 Operator : JC/MD
 Sample : J6484-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 21 03:31:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	624324	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	983077	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	907225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	434679	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	342864	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	
35) Dibromofluoromethane	5.51	113	295230	47.49	ug/l	0.00
Spiked Amount			Recovery	=	94.98%	
50) Toluene-d8	8.71	98	1172428	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	11.13	95	426391	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	

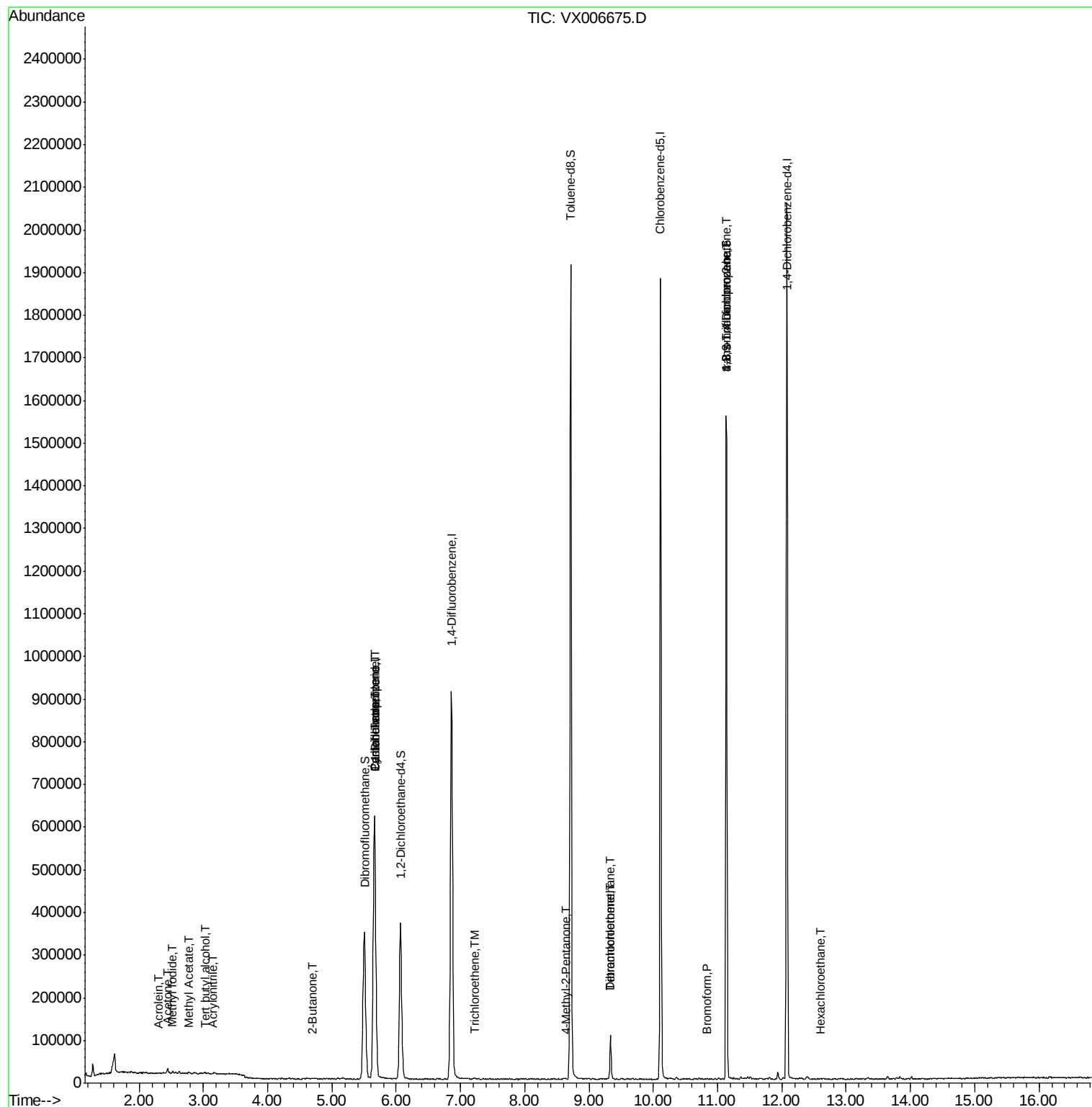
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	878	Below Cal		97
10) Methyl Iodide	2.53	142	2095	0.249	ug/l #	64
11) Tert butyl alcohol	3.03	59	1323	0.881	ug/l #	72
13) Acrolein	2.29	56	390	0.385	ug/l	95
15) Acrylonitrile	3.15	53	823	0.247	ug/l #	37
16) Acetone	2.44	43	11296	3.654	ug/l	90
18) Methyl Acetate	2.78	43	3177	0.350	ug/l #	71
25) 2-Butanone	4.70	43	1284	0.295	ug/l #	80
28) Bromochloromethane	5.03	49	349	Below Cal	#	53
31) Cyclohexane	5.67	56	10077	1.082	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	42470	5.216	ug/l #	48
38) Carbon Tetrachloride	5.66	117	58985	7.454	ug/l #	15
44) Trichloroethene	7.21	130	1616	0.216	ug/l	68
49) 1,4-Dioxane	7.73	88	101	Below Cal	#	1
51) 4-Methyl-2-Pentanone	8.65	43	1651	0.201	ug/l #	70
60) Dibromochloromethane	9.34	129	19281	5.010	ug/l #	11
64) Tetrachloroethene	9.34	164	21595	3.006	ug/l	97
71) Bromoform	10.85	173	107	4.478	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	192934	23.883	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	192934	70.764	ug/l #	10
90) Hexachloroethane	12.60	117	114	3.319	ug/l	54

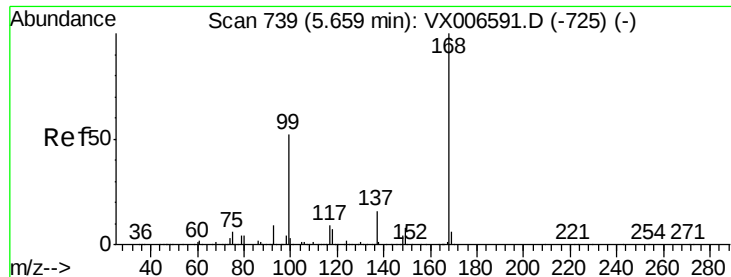
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

Instrument :

MSVOA_X

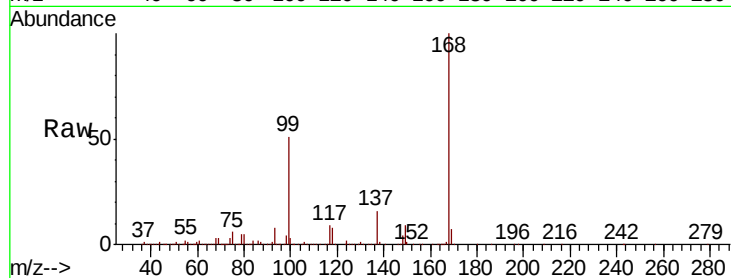
ClientSampleId :

Tot Ion:168 Resp: 624324

Ion Ratio Lower Upper

168 100

99 50.8 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

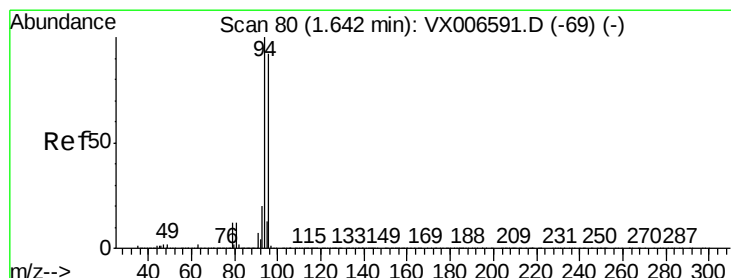
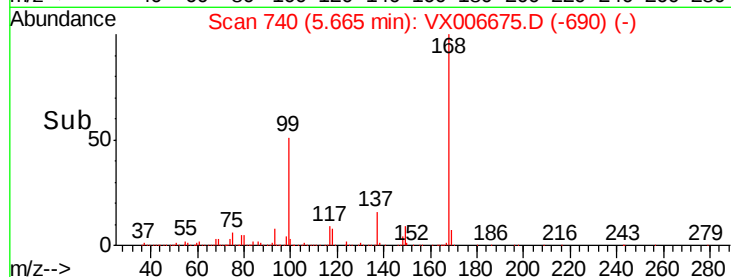
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006675.D

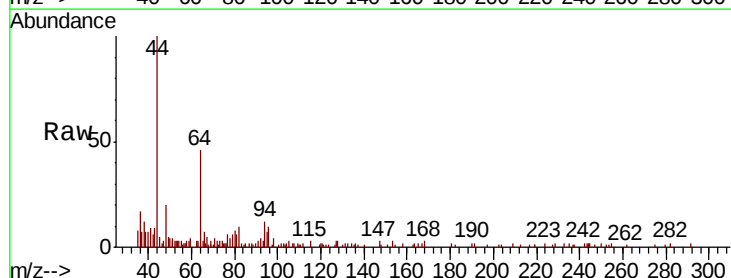
Acq: 20 Dec 2018 14:54

Tgt Ion: 94 Resp: 878

Ion Ratio Lower Upper

94 100

96 89.3 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

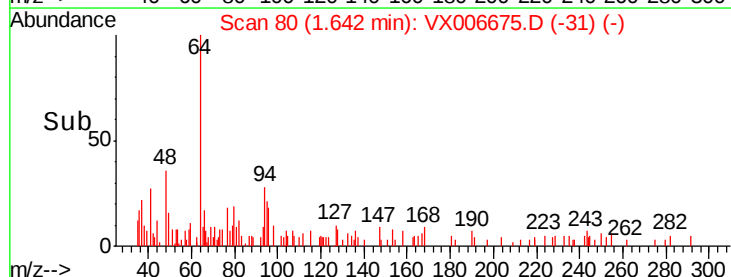
600

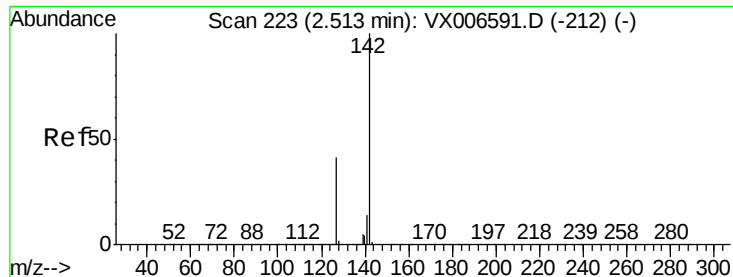
400

200

0

Time--> 1.60 1.65 1.70

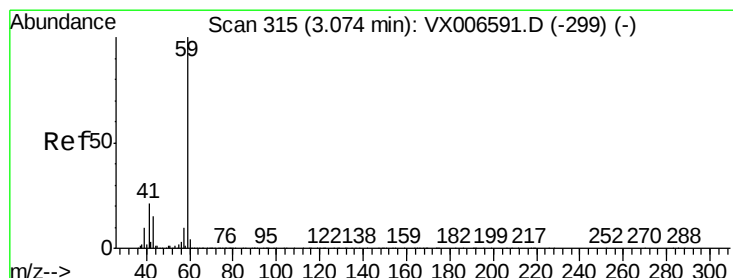
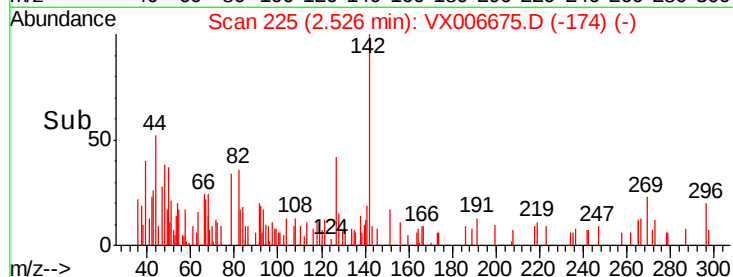
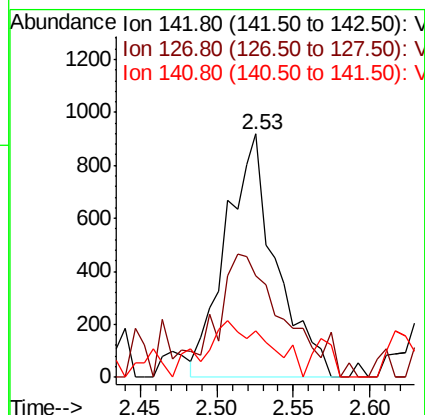
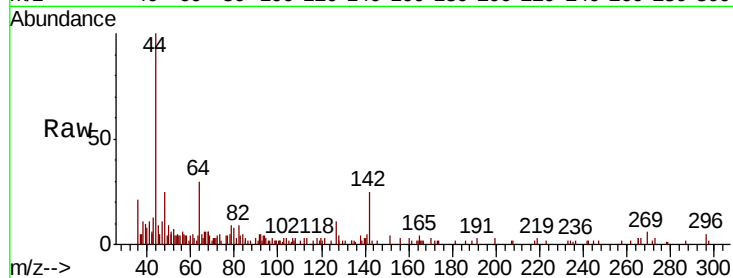




#10
Methyl Iodide
Concen: 0.249 ug/l
RT: 2.53 min Scan# 225
Delta R.T. 0.01 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

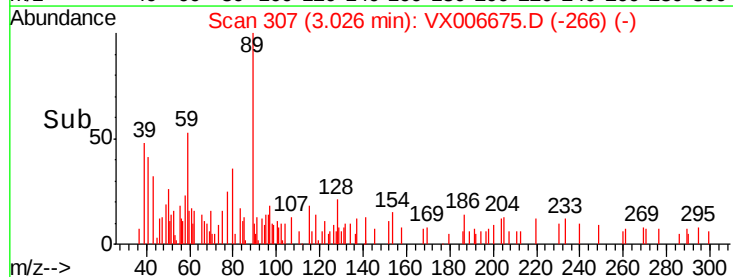
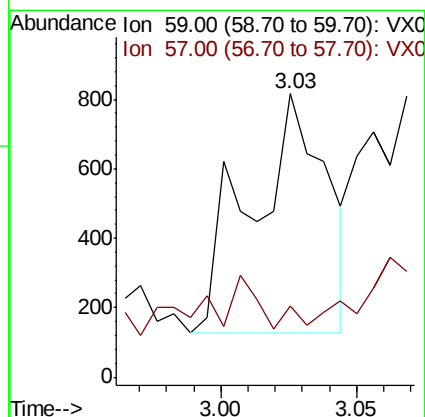
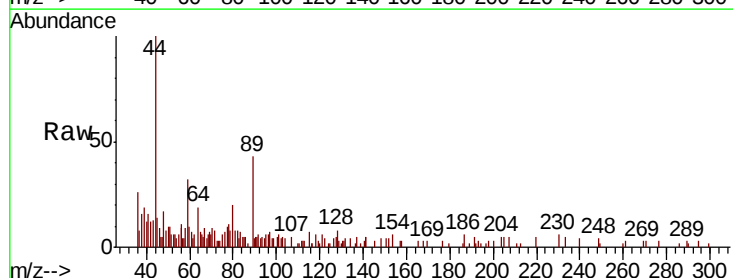
Instrument :
MSVOA_X
ClientSampleId :

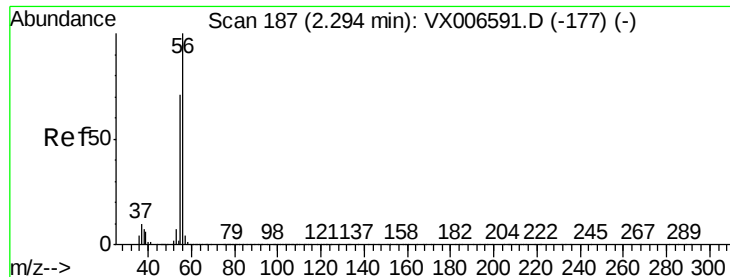
Tot Ion:142 Resp: 2095
Ion Ratio Lower Upper
142 100
127 65.1 33.9 50.9#
141 29.2 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.881 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.05 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

Tgt Ion: 59 Resp: 1323
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.385 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

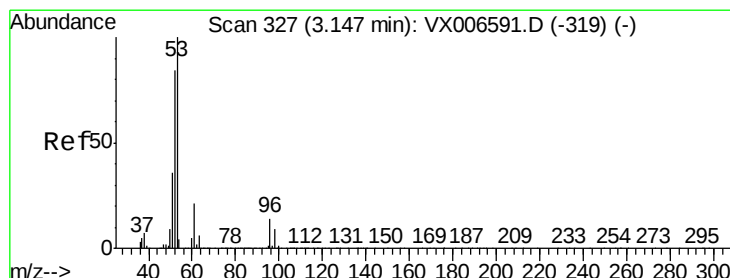
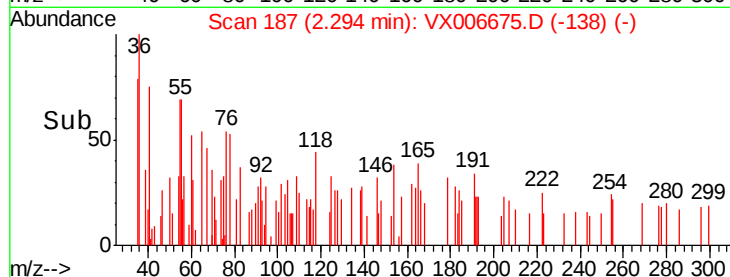
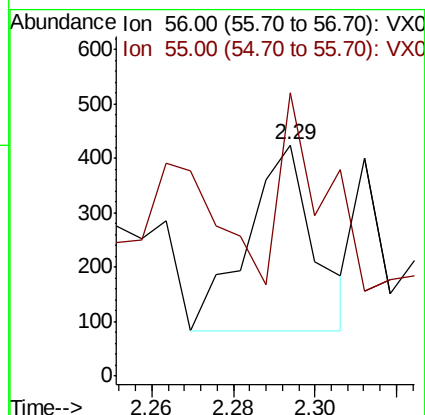
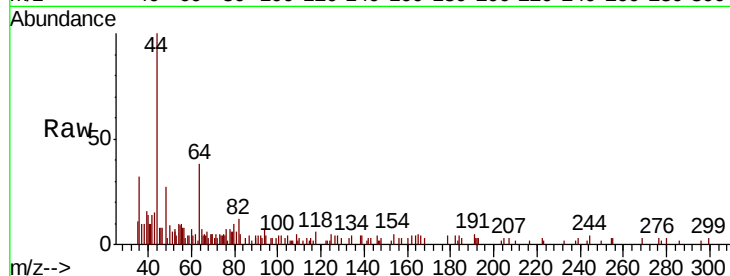
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 390

Ion Ratio Lower Upper

56 100

55 76.7 58.2 87.4



#15

Acrylonitrile

Concen: 0.247 ug/l

RT: 3.15 min Scan# 328

Delta R.T. 0.01 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

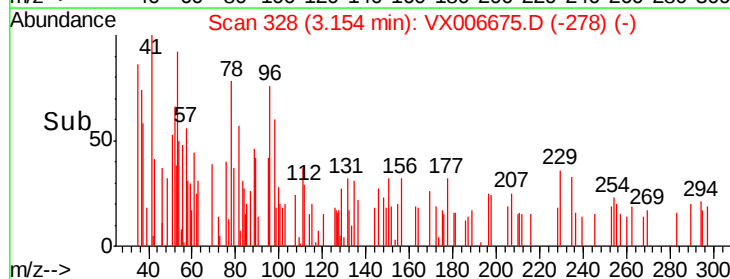
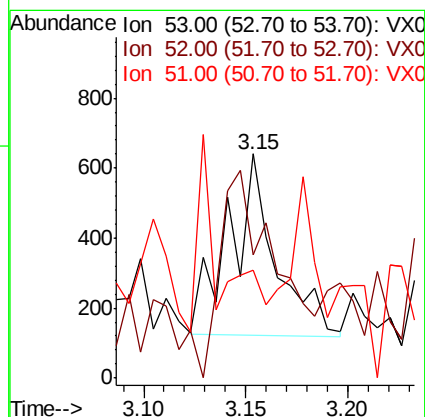
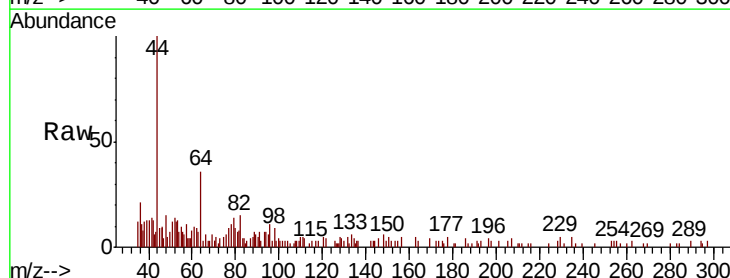
Tgt Ion: 53 Resp: 823

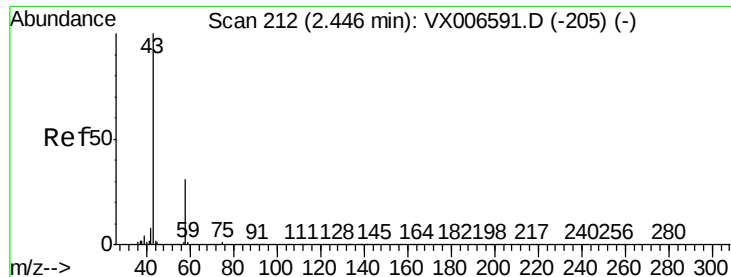
Ion Ratio Lower Upper

53 100

52 139.9 66.0 99.0#

51 0.0 28.6 42.8#

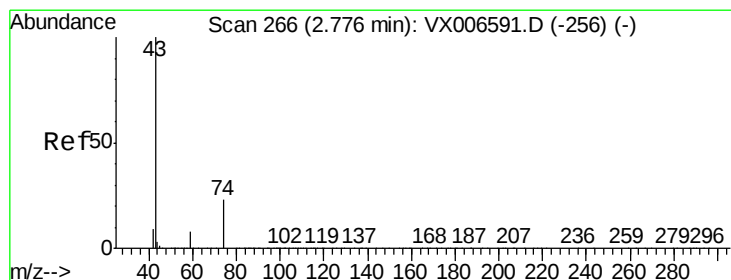
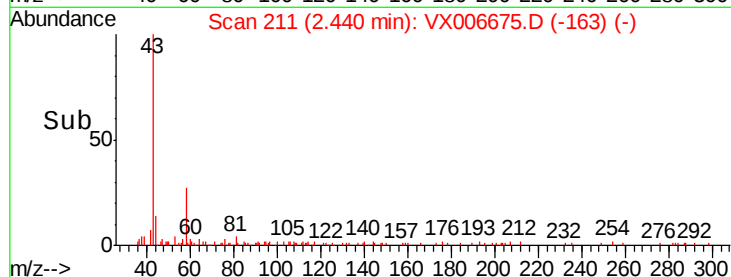
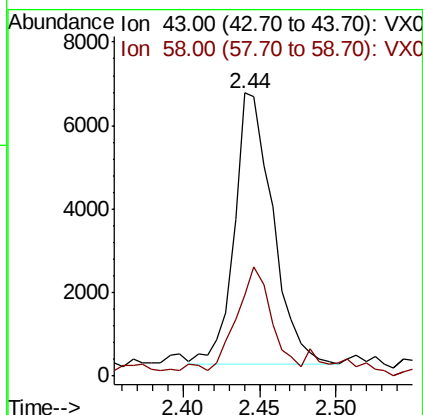
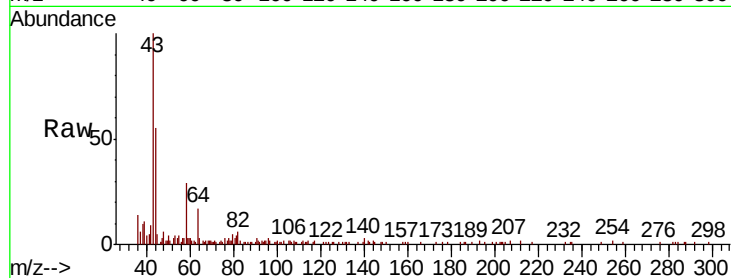




#16
Acetone
Concen: 3.654 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

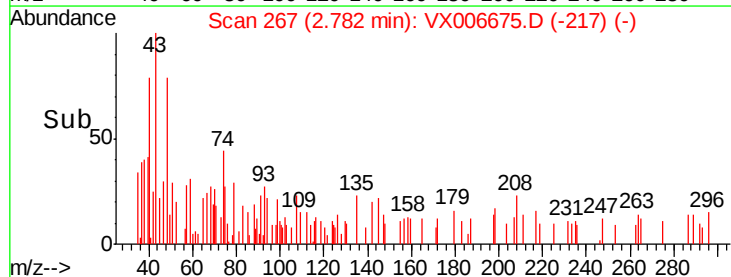
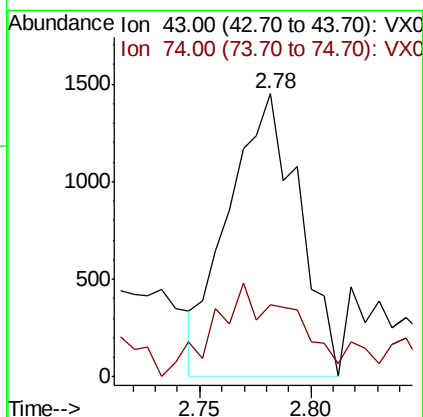
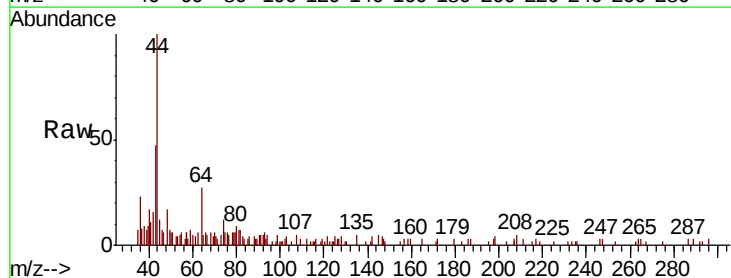
Instrument :
MSVOA_X
ClientSampleId :

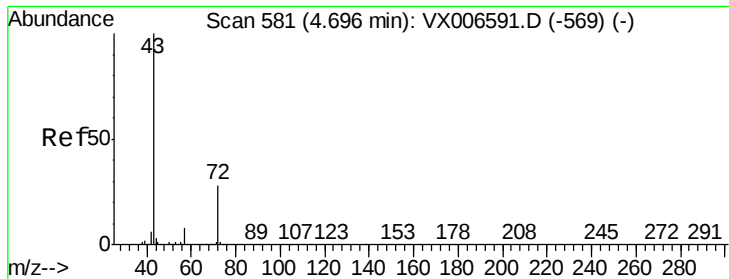
Tot Ion: 43 Resp: 11296
Ion Ratio Lower Upper
43 100
58 25.9 25.0 37.6



#18
Methyl Acetate
Concen: 0.350 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

Tgt Ion: 43 Resp: 3177
Ion Ratio Lower Upper
43 100
74 37.4 18.6 28.0#





#25

2-Butanone

Concen: 0.295 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

Instrument :

MSVOA_X

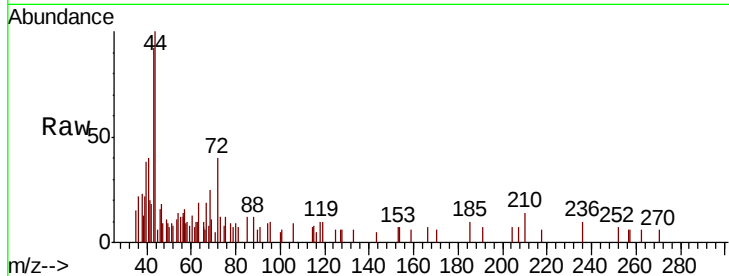
ClientSampled :

Tot Ion: 43 Resp: 1284

Ion Ratio Lower Upper

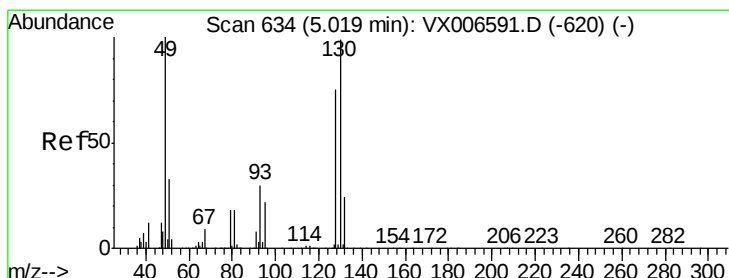
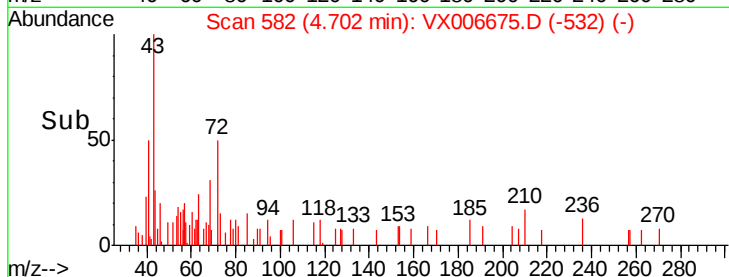
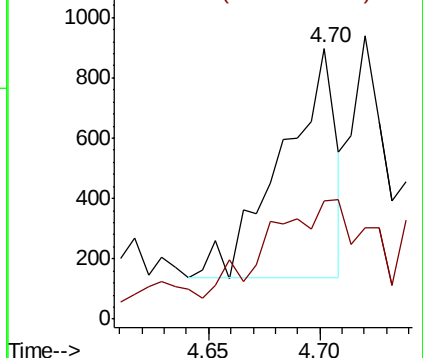
43 100

72 38.5 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 636

Delta R.T. 0.01 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

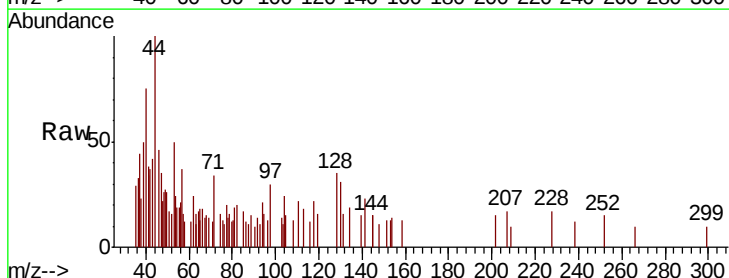
Tgt Ion: 49 Resp: 349

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

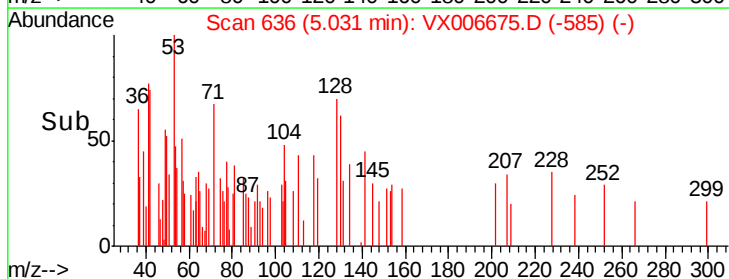
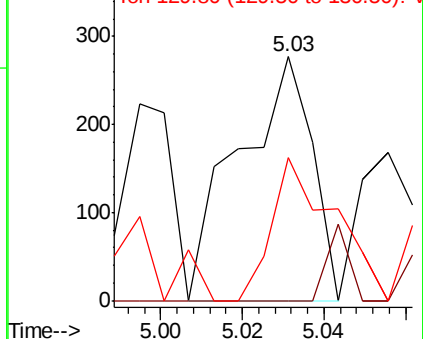
130 49.9 77.7 116.5#

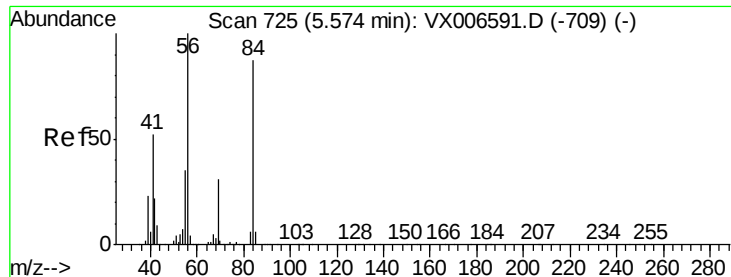


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

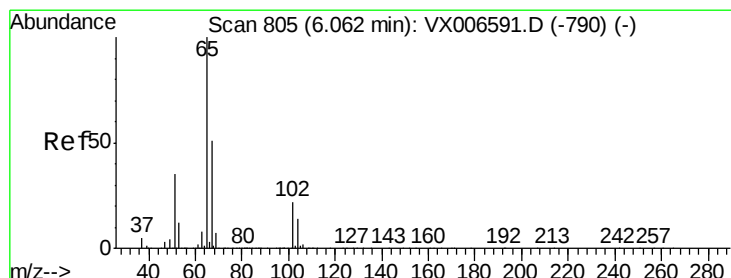
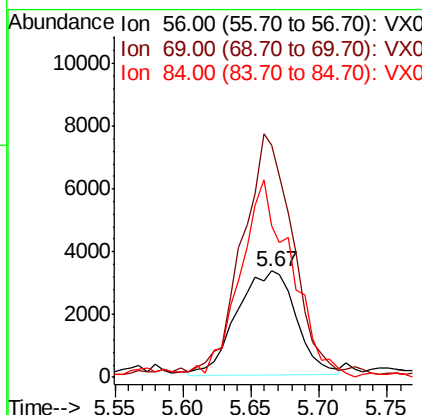
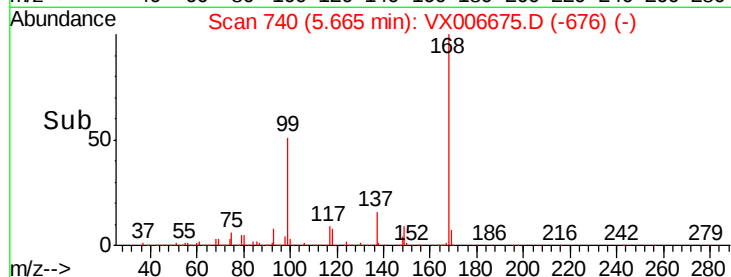
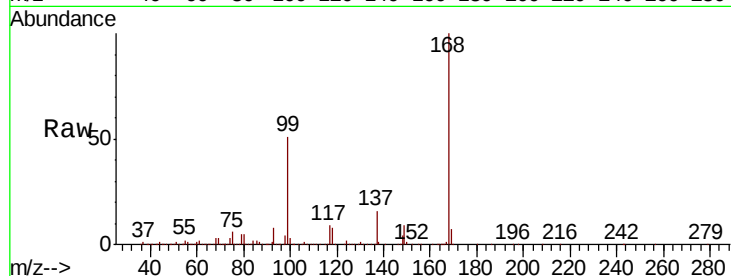




#31
Cyclohexane
Concen: 1.082 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

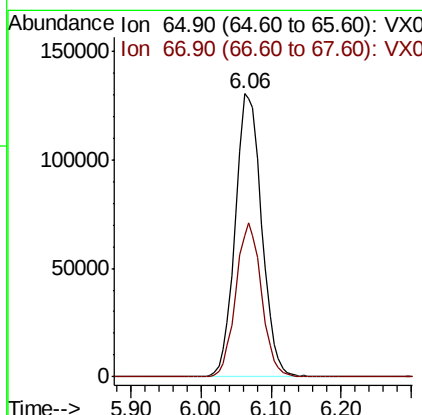
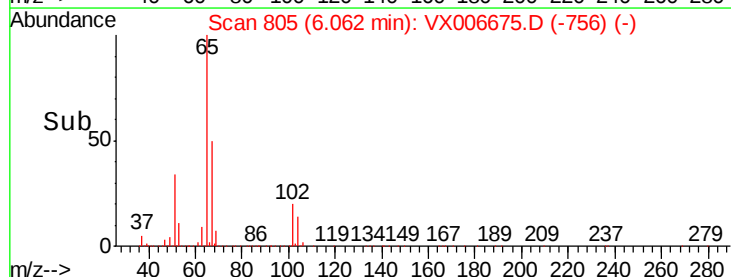
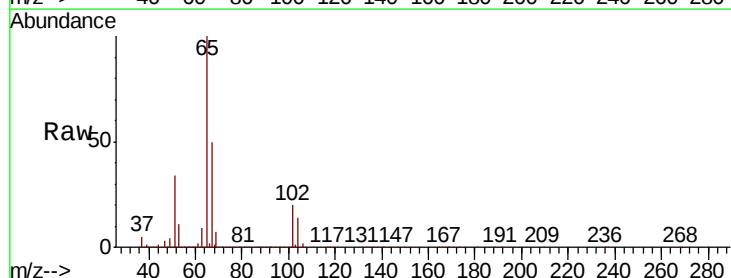
Instrument :
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ClientSampleId :

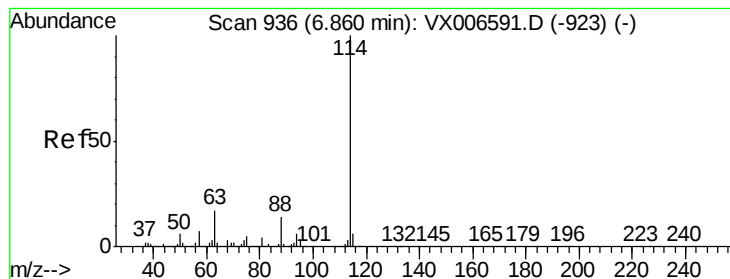
Tot Ion: 56 Resp: 10077
Ion Ratio Lower Upper
56 100
69 224.7 24.4 36.6#
84 145.4 70.0 105.0#



#33
1,2-Dichloroethane-d4
Concen: 50.956 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

Tgt Ion: 65 Resp: 342864
Ion Ratio Lower Upper
65 100
67 53.0 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: VX006675.D

Acq: 20 Dec 2018 14:54

Instrument :

MSVOA_X

ClientSampleId :

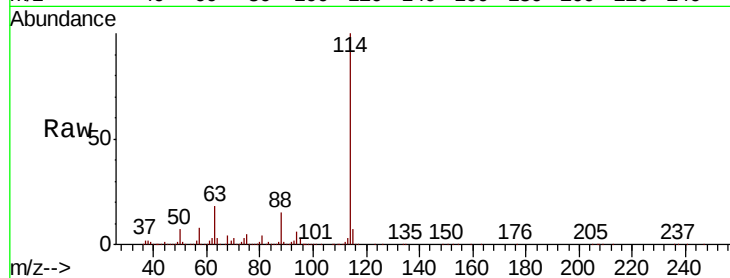
Tot Ion:114 Resp: 983077

Ion Ratio Lower Upper

114 100

63 17.8 0.0 34.8

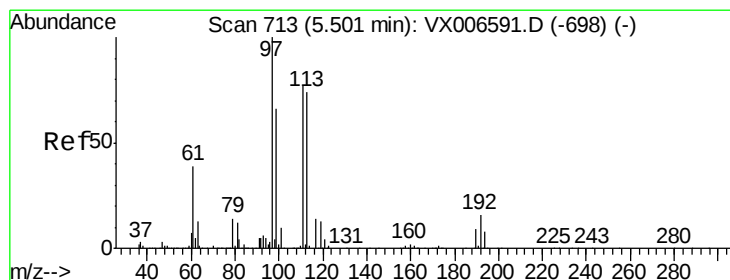
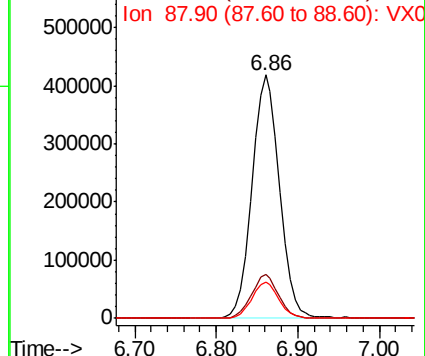
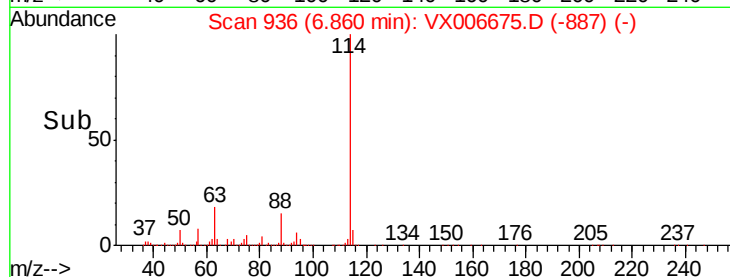
88 14.7 0.0 28.8



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: 47.489 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

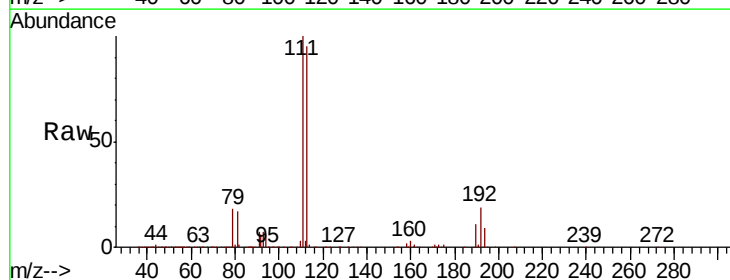
Tgt Ion:113 Resp: 295230

Ion Ratio Lower Upper

113 100

111 102.5 81.6 122.4

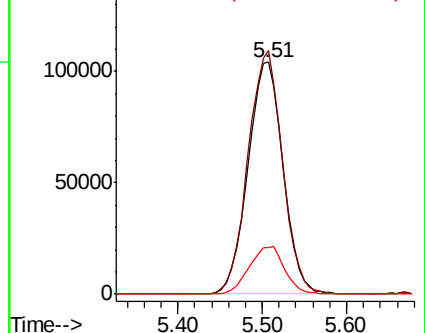
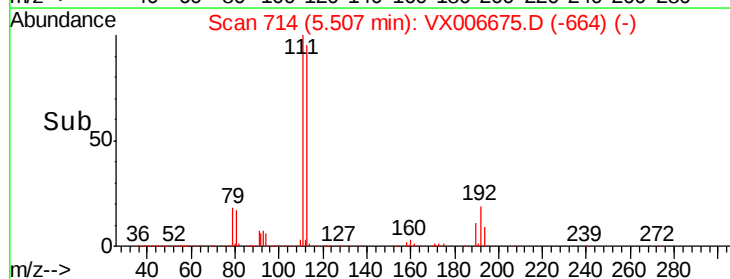
192 20.7 16.7 25.1

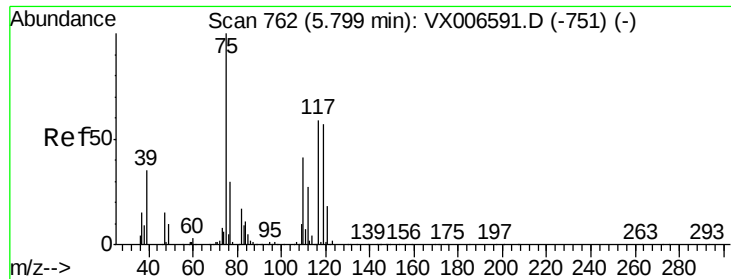


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

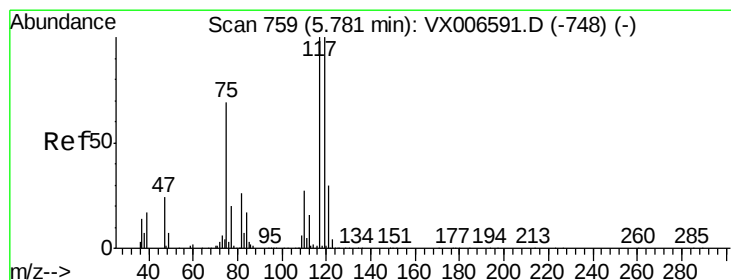
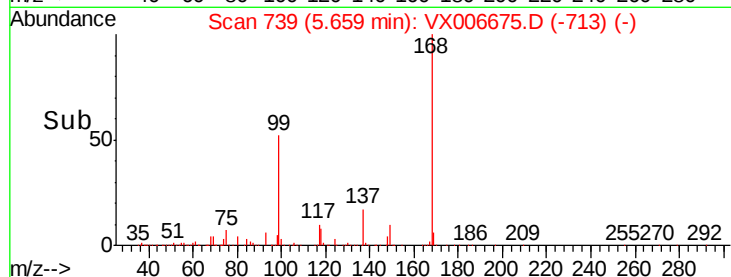
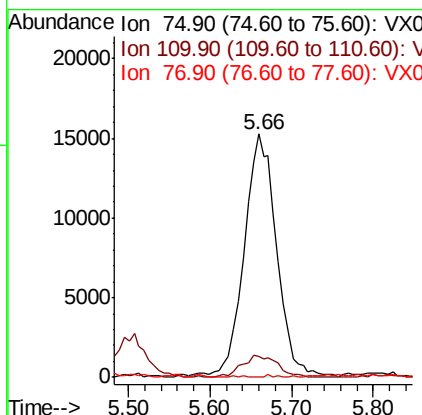
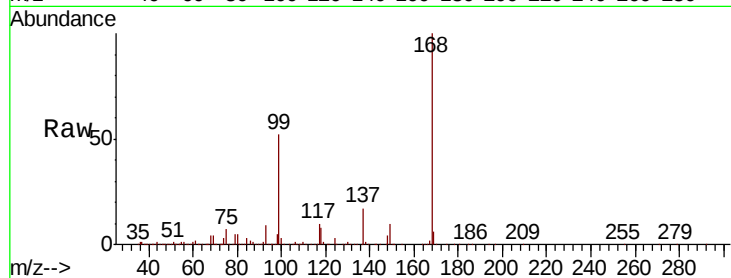




#36
 1,1-Dichloropropene
 Concen: 5.216 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX006675.D
 Acq: 20 Dec 2018 14:54

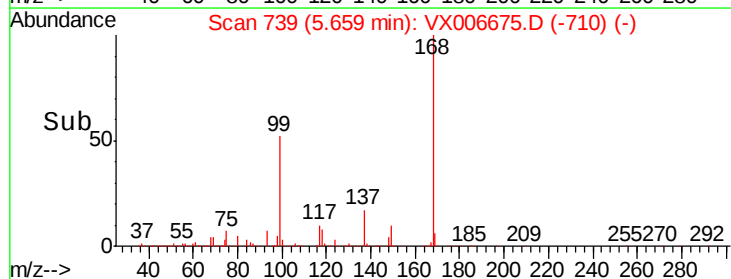
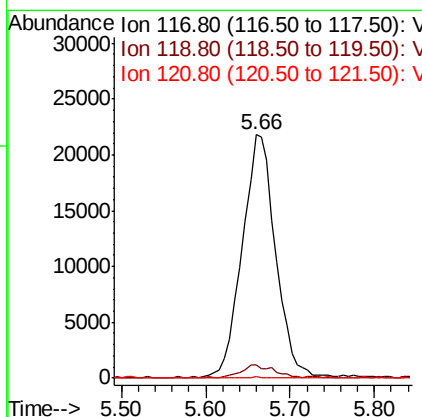
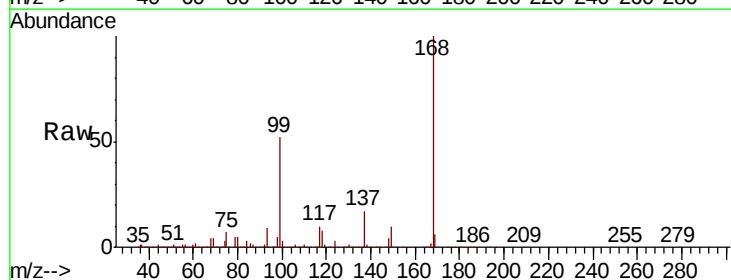
Instrument :
 MSVOA_X
 ClientSampleId :

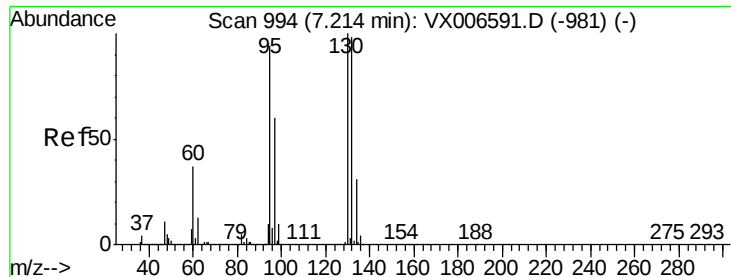
Tot Ion	Ratio	Lower	Upper
75	100		
110	10.0	20.2	60.5#
77	0.4	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 7.454 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX006675.D
 Acq: 20 Dec 2018 14:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.2	79.4	119.2#
121	0.6	24.0	36.0#





#44

Trichloroethene

Concen: 0.216 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

Instrument :

MSVOA_X

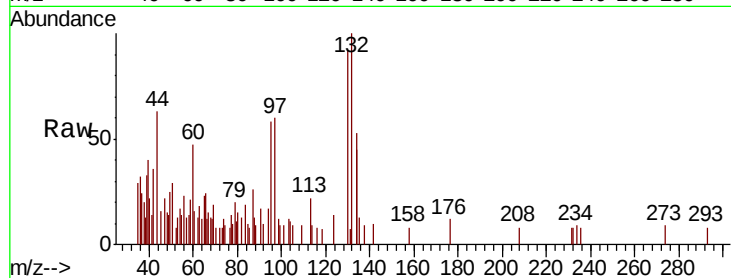
ClientSampled :

Tot Ion:130 Resp: 1616

Ion Ratio Lower Upper

130 100

95 62.9 0.0 187.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

600

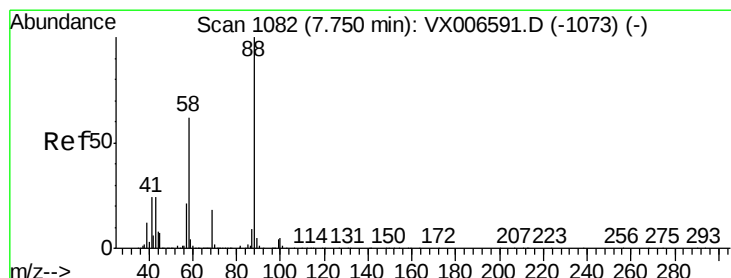
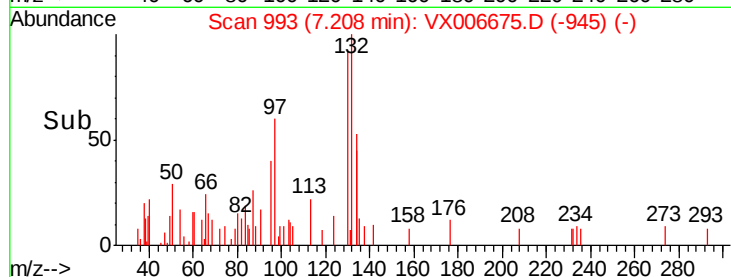
400

200

0

7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.73 min Scan# 1079

Delta R.T. -0.02 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

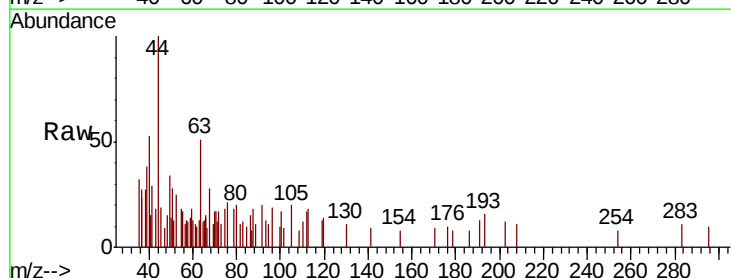
Tgt Ion: 88 Resp: 101

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.4#

58 265.3 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

300

250

200

150

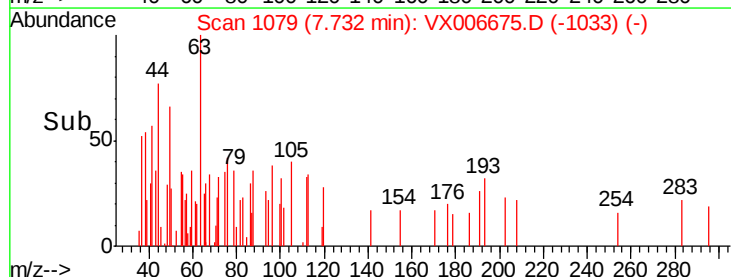
100

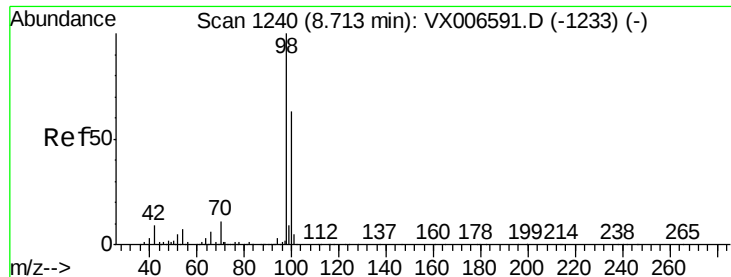
50

0

7.71 7.72 7.73 7.74 7.75

Time-->

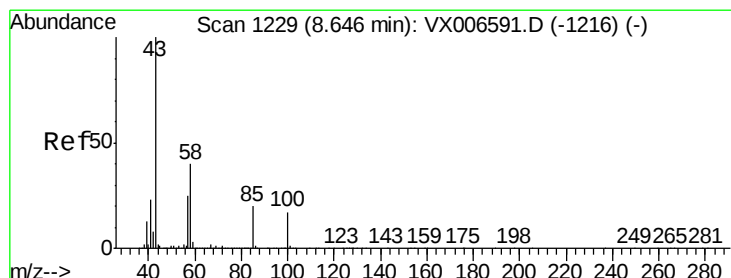
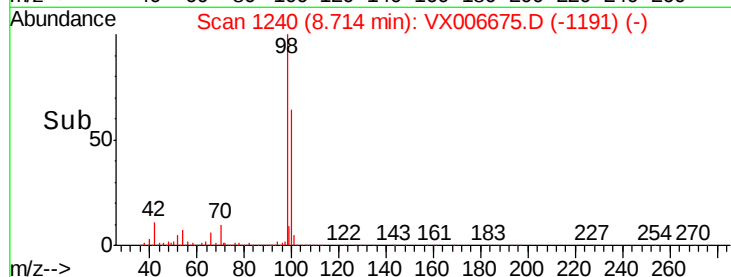
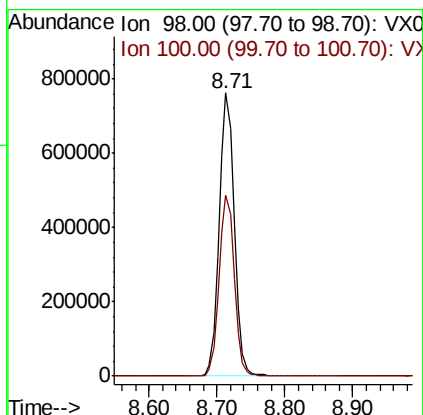
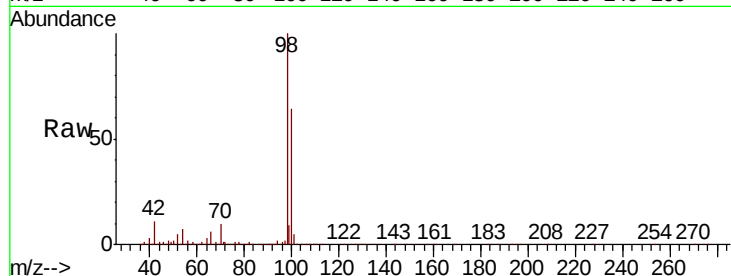




#50
Toluene-d8
Concen: 50.024 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

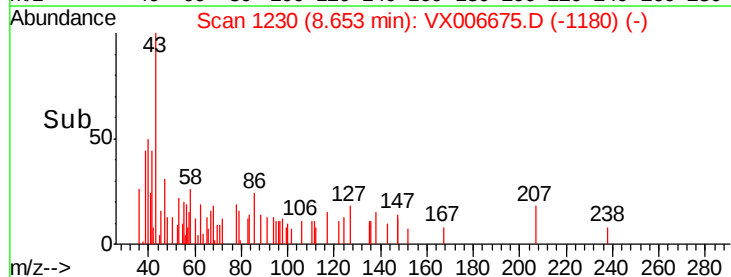
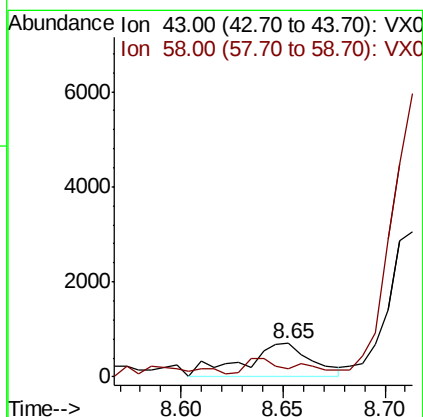
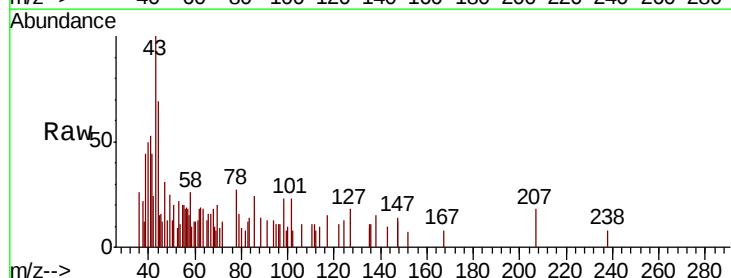
Instrument :
MSVOA_X
ClientSampleId :

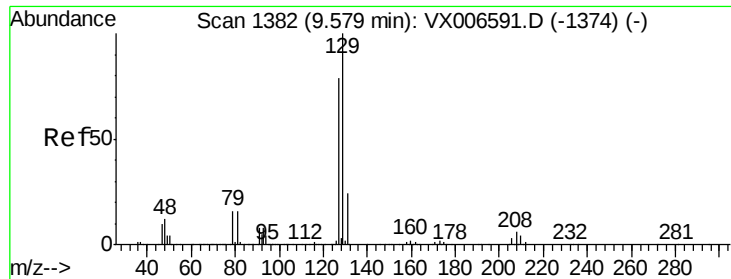
Tot Ion: 98 Resp: 1172428
Ion Ratio Lower Upper
98 100
100 64.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 0.201 ug/l
RT: 8.65 min Scan# 1230
Delta R.T. 0.01 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

Tgt Ion: 43 Resp: 1651
Ion Ratio Lower Upper
43 100
58 21.1 31.8 47.6#





#60

Dibromochloromethane

Concen: 5.010 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

Instrument :

MSVOA_X

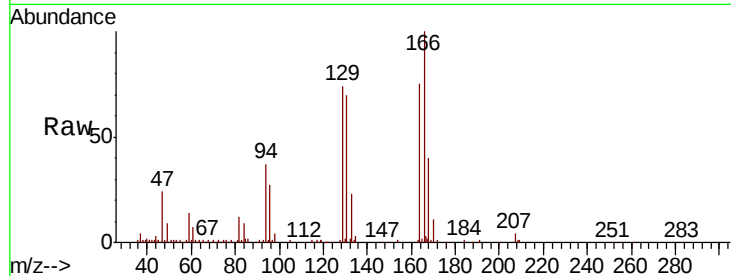
ClientSampleId :

Tot Ion:129 Resp: 19281

Ion Ratio Lower Upper

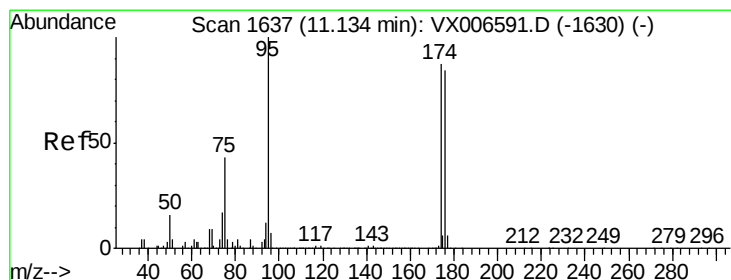
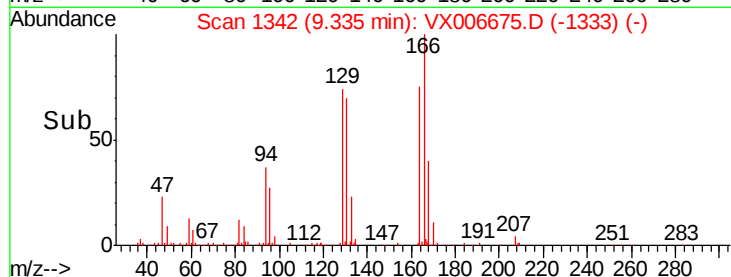
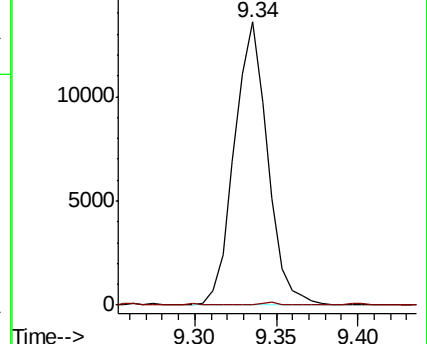
129 100

127 0.4 39.3 117.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 49.674 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

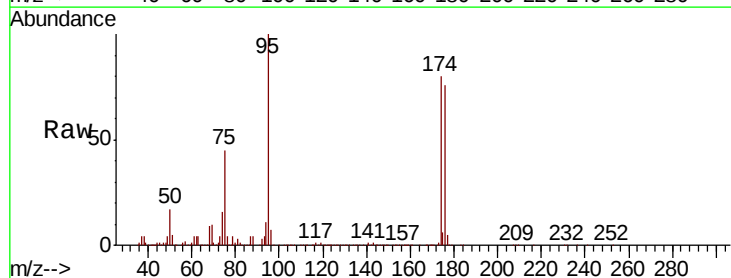
Tgt Ion: 95 Resp: 426391

Ion Ratio Lower Upper

95 100

174 85.8 0.0 182.2

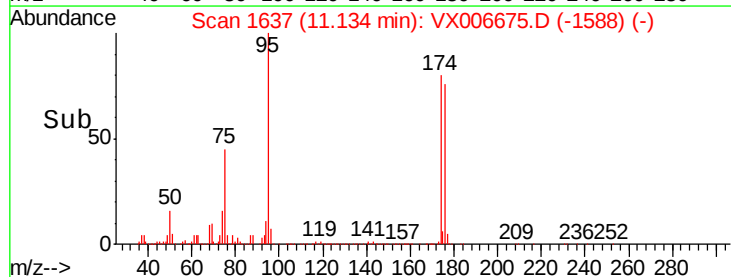
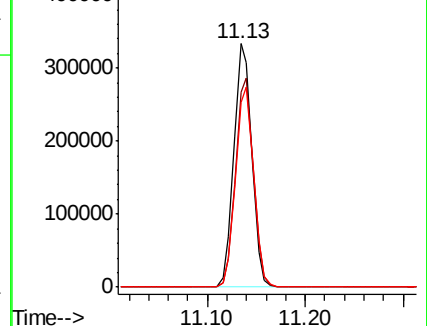
176 83.2 0.0 178.8

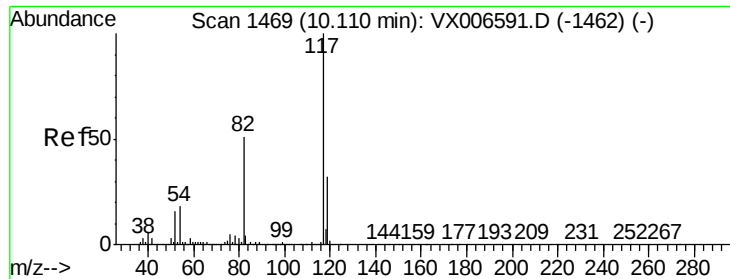


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

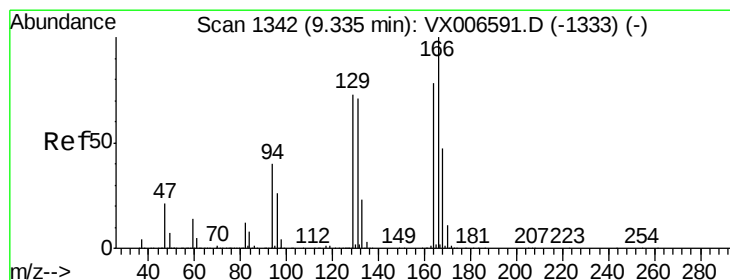
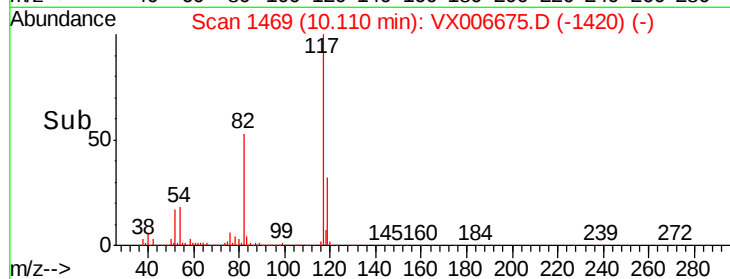
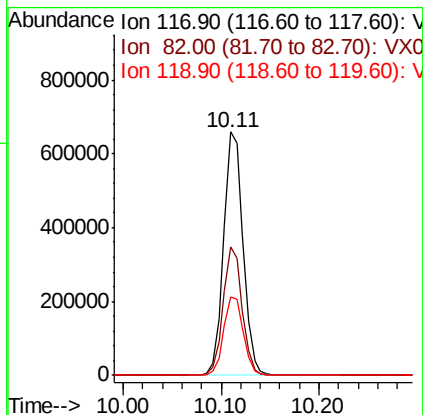
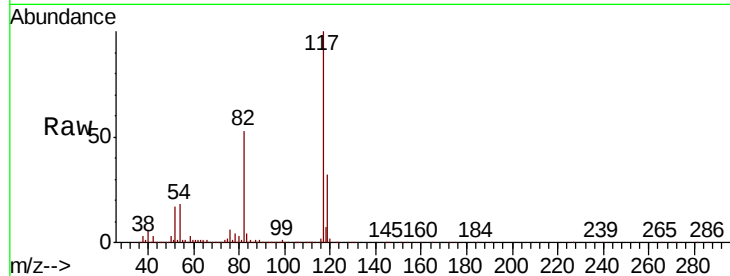




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

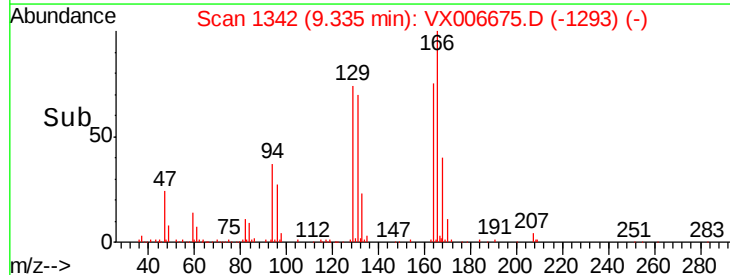
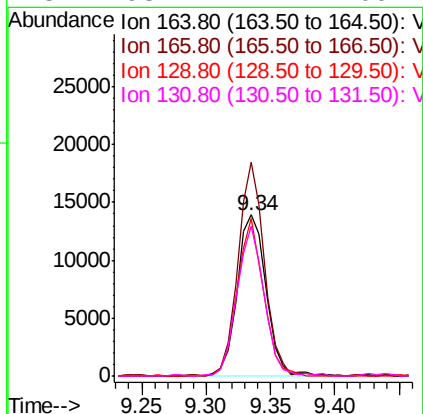
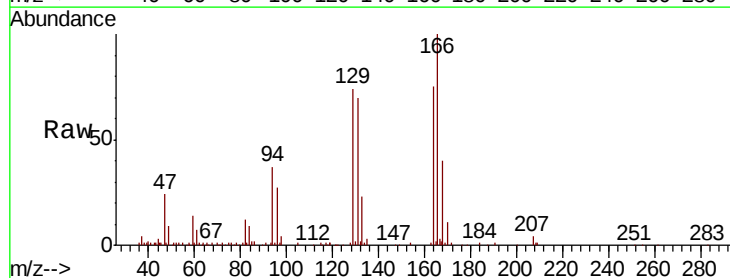
Instrument :
MSVOA_X
ClientSampleId :

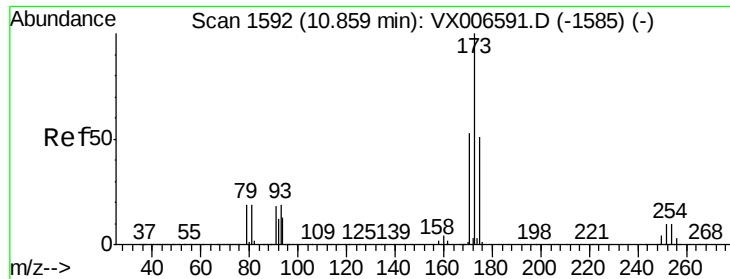
Tot Ion:117 Resp: 907225
Ion Ratio Lower Upper
117 100
82 52.7 41.0 61.6
119 32.1 25.4 38.0



#64
Tetrachloroethene
Concen: 3.006 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

Tgt Ion:164 Resp: 21595
Ion Ratio Lower Upper
164 100
166 132.4 102.5 153.7
129 97.7 75.1 112.7
131 93.2 72.7 109.1

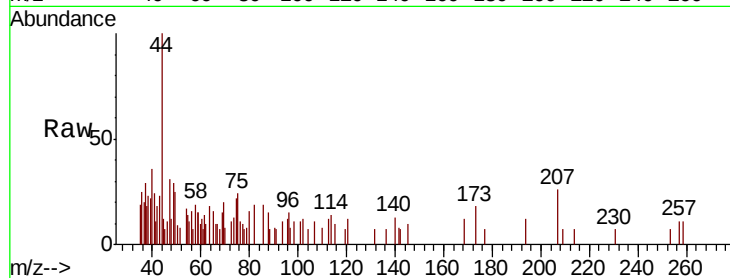




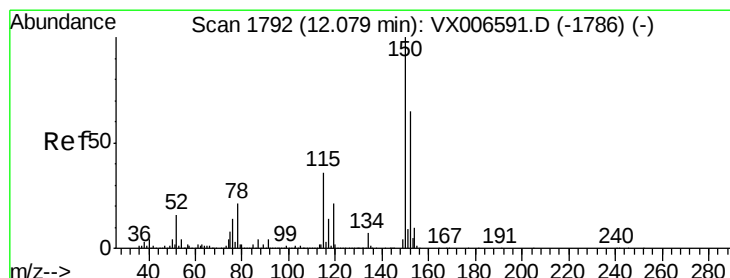
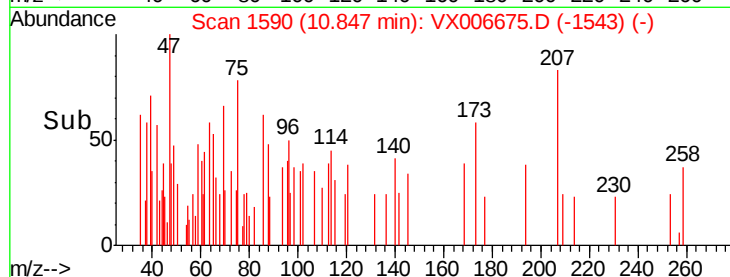
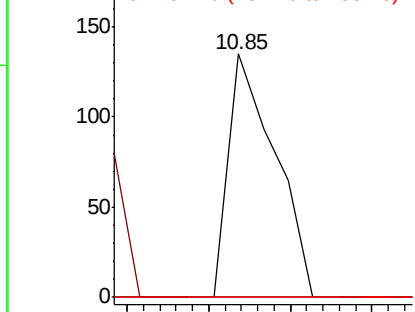
#71
Bromoform
Concen: 4.478 ug/l
RT: 10.85 min Scan# 1590
Delta R.T. -0.01 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.7	74.1#
254	0.0	0.2	0.2#

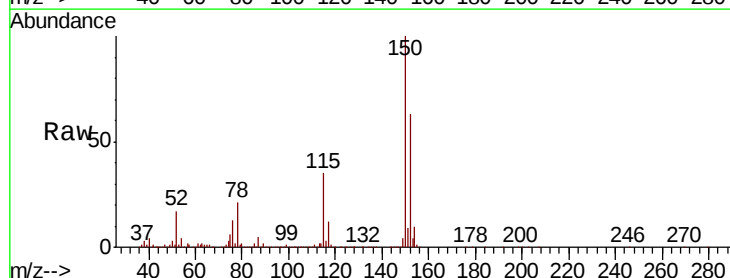


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

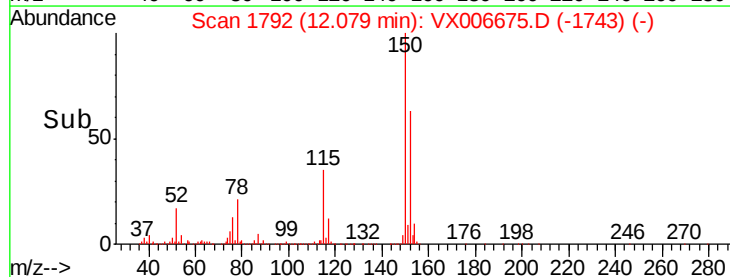
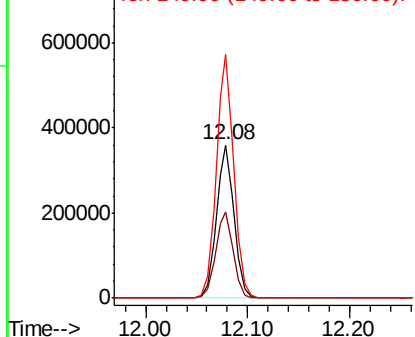


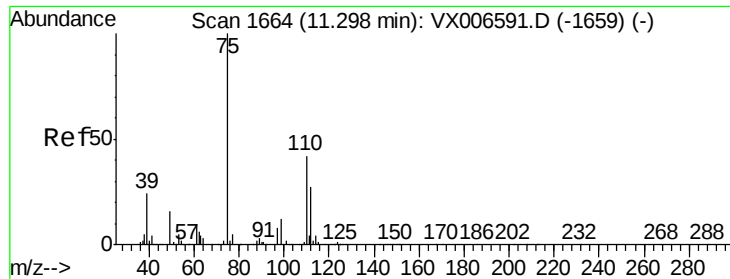
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX006675.D
Acq: 20 Dec 2018 14:54

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.6	39.1	117.2
150	158.5	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: 23.883 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

Instrument :

MSVOA_X

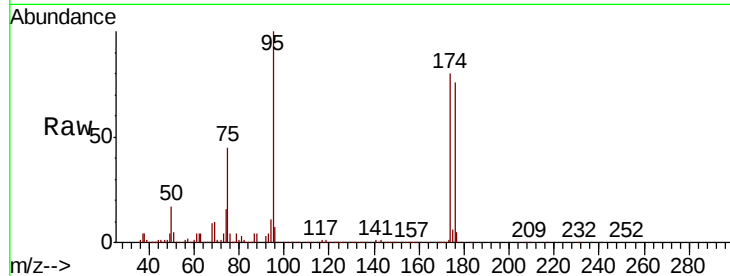
ClientSampleId :

Tot Ion: 75 Resp: 192934

Ion Ratio Lower Upper

75 100

77 1.2 18.5 55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

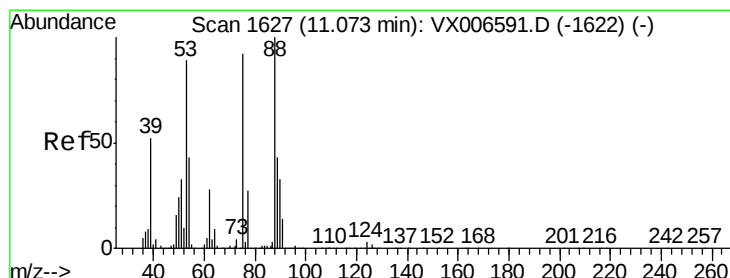
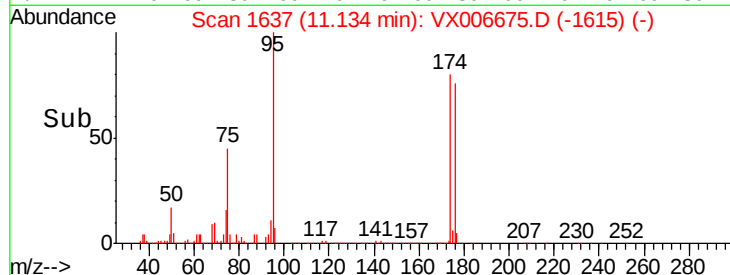
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 70.764 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

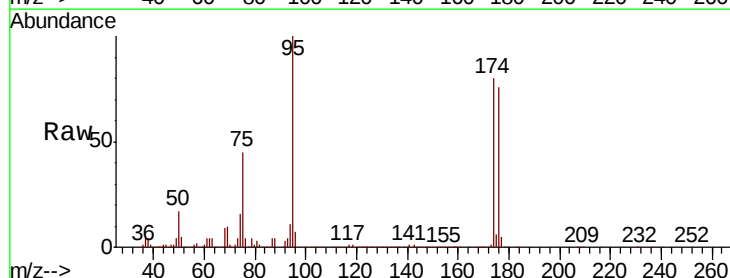
Tgt Ion: 75 Resp: 192934

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

200000

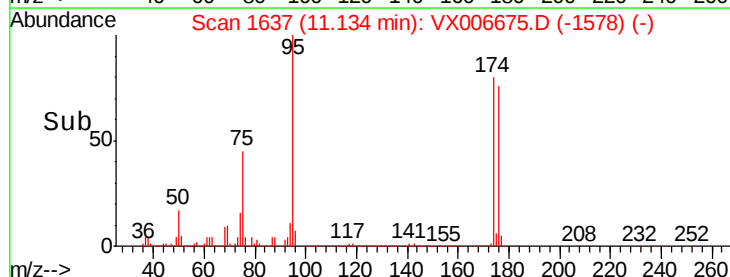
150000

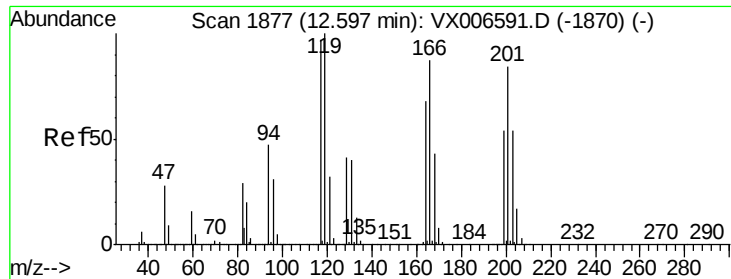
100000

50000

0

Time-->





#90

Hexachloroethane

Concen: 3.319 ug/l

RT: 12.60 min Scan# 1878

Delta R.T. 0.01 min

Lab File: VX006675.D

Acq: 20 Dec 2018 14:54

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion:117 Resp: 114

Ion Ratio Lower Upper

117 100

201 43.9 42.9 128.7

