

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032119\
 Data File : VX008299.D
 Acq On : 21 Mar 2019 18:42
 Operator : JC/SP
 Sample : K1945-13
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T2-UV(PRE)

Quant Time: Mar 22 08:45:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 19 13:15:13 2019
 Response via : Initial Calibration

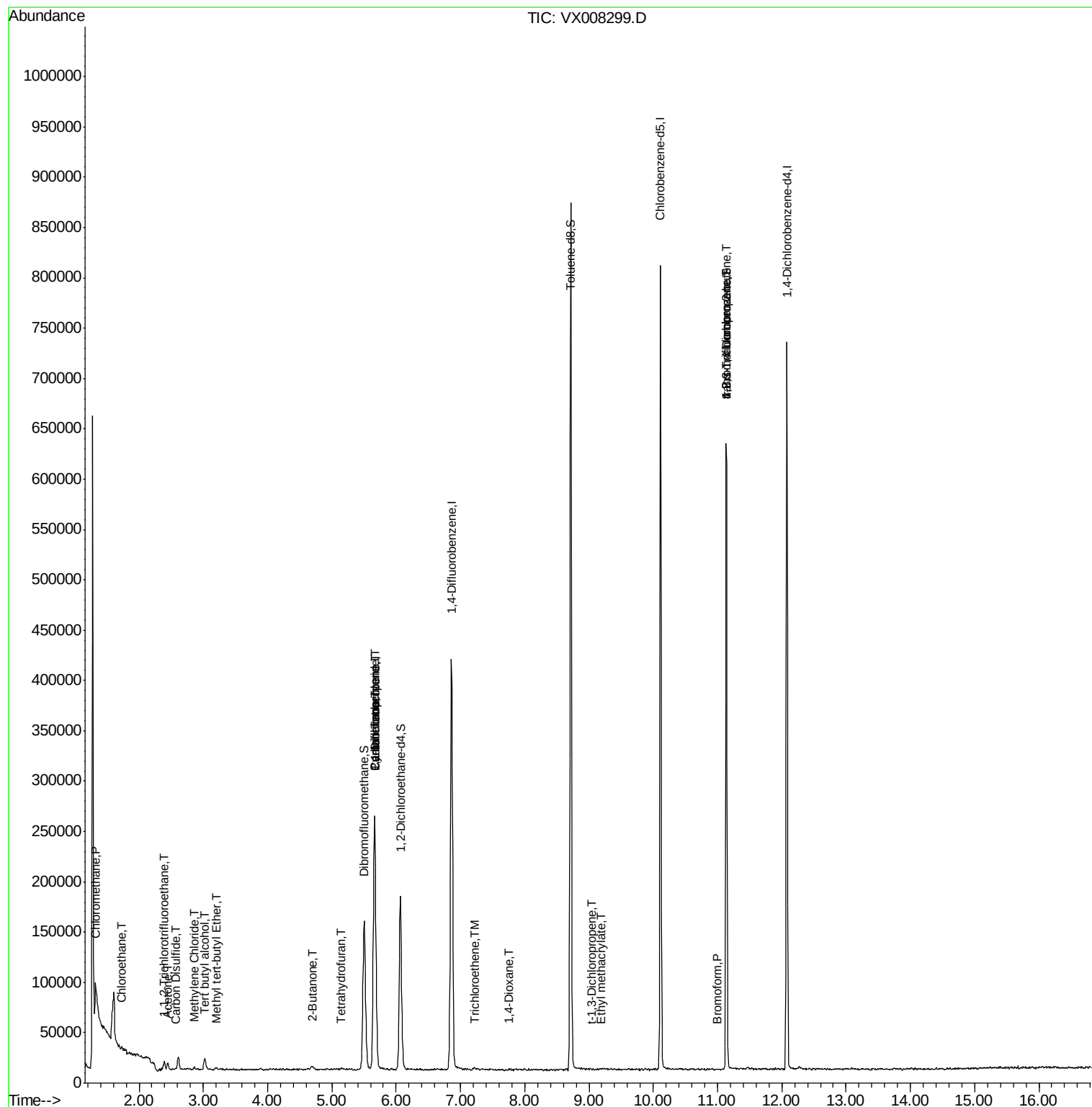
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	241435	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	395921	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	345519	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	141955	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	164205	45.16	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.32%	
35) Dibromofluoromethane	5.50	113	124685	47.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.08%	
50) Toluene-d8	8.71	98	497714	49.53	ug/l	0.00
Spiked Amount 50.000			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	11.13	95	157273	45.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.92%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	2121	0.577	ug/l #	54
6) Chloroethane	1.72	64	2877	1.253	ug/l #	60
9) 1,1,2-Trichlorotrifluoroet	2.39	101	2621	0.845	ug/l #	91
11) Tert butyl alcohol	3.03	59	7102	9.124	ug/l #	78
13) Acrolein	2.32	56	228	Below Cal	#	13
16) Acetone	2.45	43	7940	3.850	ug/l	94
17) Carbon Disulfide	2.57	76	653	0.743	ug/l #	34
19) Methyl tert-butyl Ether	3.20	73	2469	0.233	ug/l #	82
20) Methylene Chloride	2.86	84	1109	0.322	ug/l	92
25) 2-Butanone	4.68	43	889	0.292	ug/l #	78
29) Tetrahydrofuran	5.15	42	1076	0.565	ug/l #	76
31) Cyclohexane	5.66	56	5836	0.968	ug/l #	3
36) 1,1-Dichloropropene	5.67	75	18861	4.092	ug/l #	51
38) Carbon Tetrachloride	5.67	117	23736	5.779	ug/l #	17
44) Trichloroethene	7.21	130	876	0.263	ug/l	62
49) 1,4-Dioxane	7.76	88	149	1.818	ug/l #	37
53) t-1,3-Dichloropropene	9.04	75	99	1.440	ug/l #	1
56) Ethyl methacrylate	9.18	69	257	0.570	ug/l #	25
71) Bromoform	11.00	173	70	2.229	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	82910	20.766	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	82910	52.853	ug/l #	12

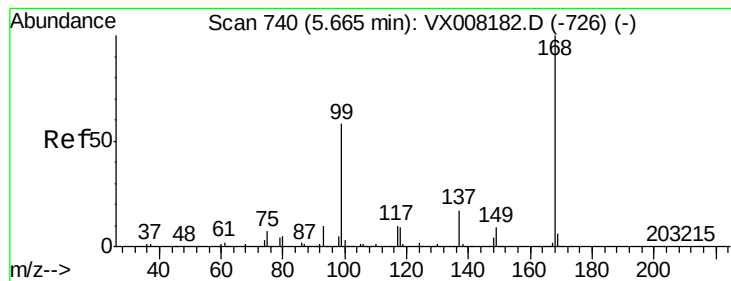
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampled :
M4-T2-UV(PRE)

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X031919W.M
Quant Title : SW846 8260
QLast Update : Tue Mar 19 13:15:13 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: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

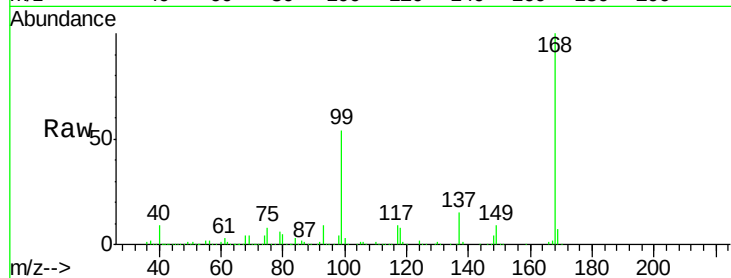
M4-T2-UV(PRE)

Tot Ion:168 Resp: 241435

Ion Ratio Lower Upper

168 100

99 54.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

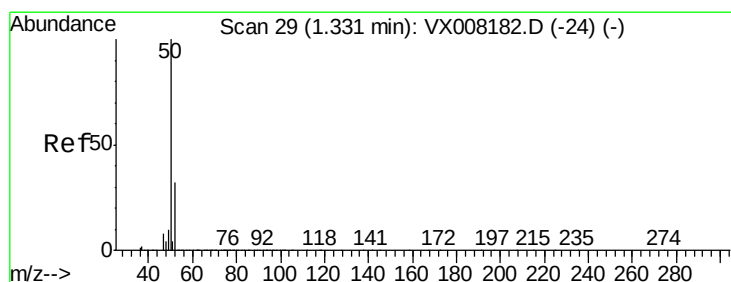
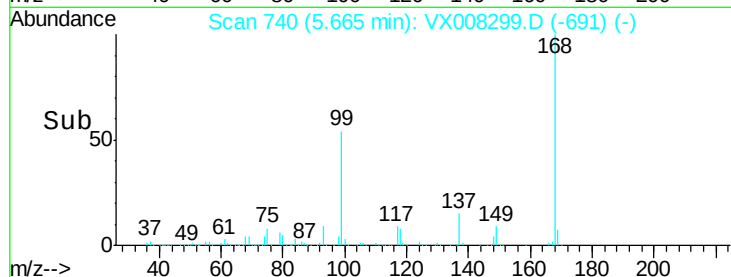
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.577 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX008299.D

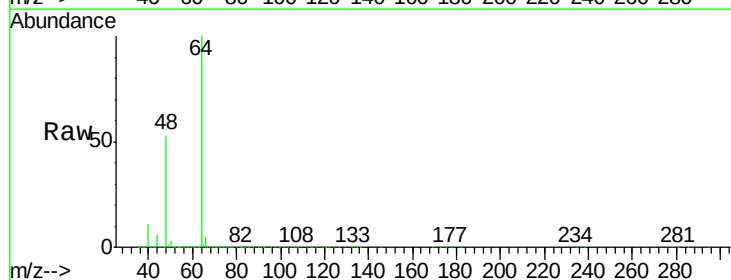
Acq: 21 Mar 2019 18:42

Tgt Ion: 50 Resp: 2121

Ion Ratio Lower Upper

50 100

52 7.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

12000

10000

8000

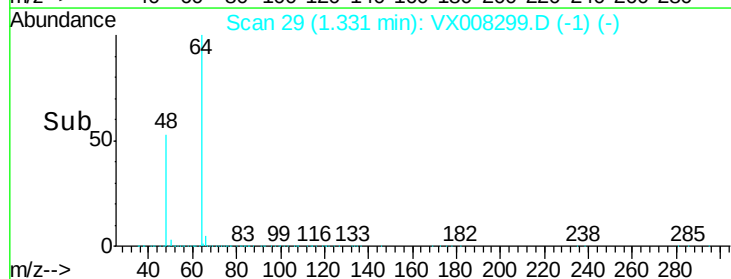
6000

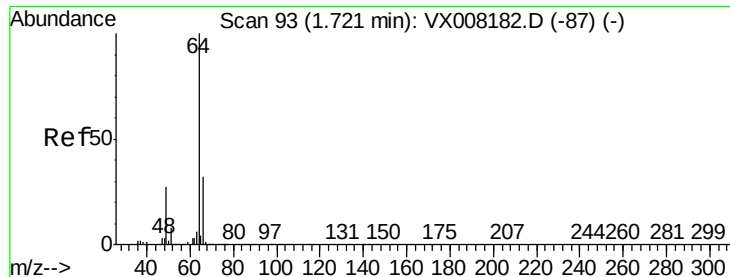
4000

2000

0

Time-->





#6

Chloroethane

Concen: 1.253 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

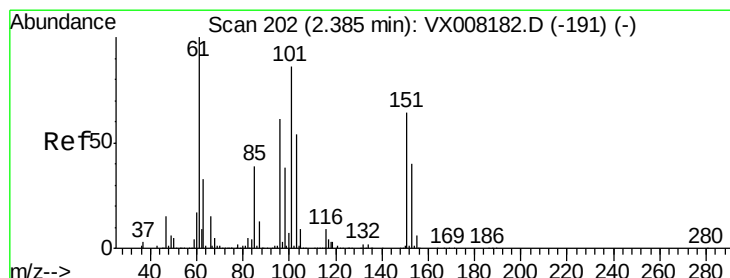
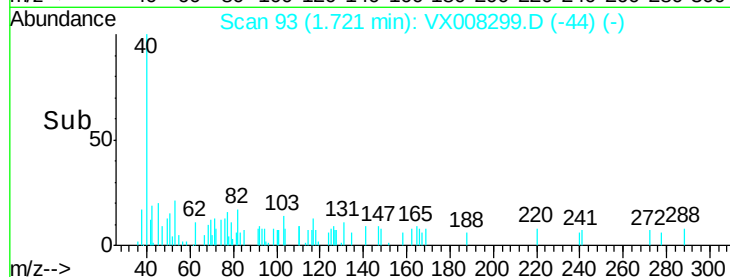
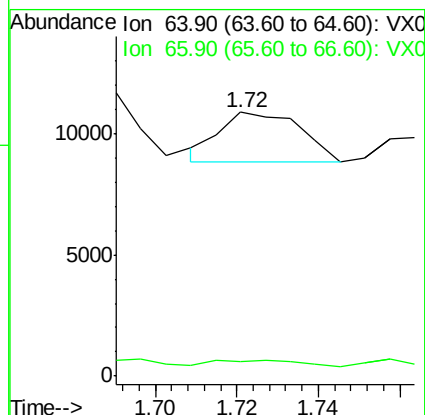
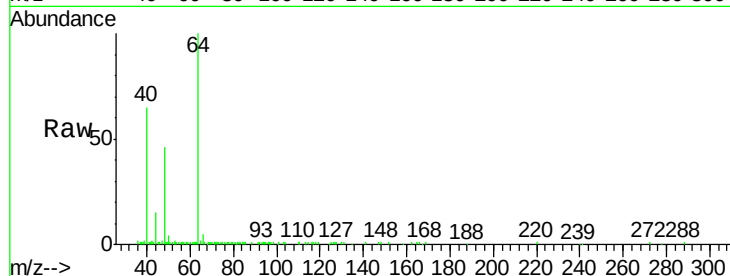
M4-T2-UV(PRE)

Tot Ion: 64 Resp: 2877

Ion Ratio Lower Upper

64 100

66 9.2 25.2 37.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.845 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

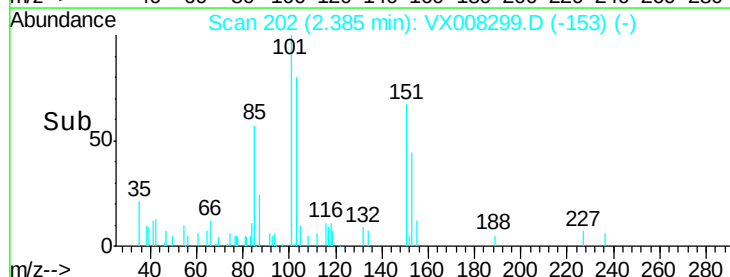
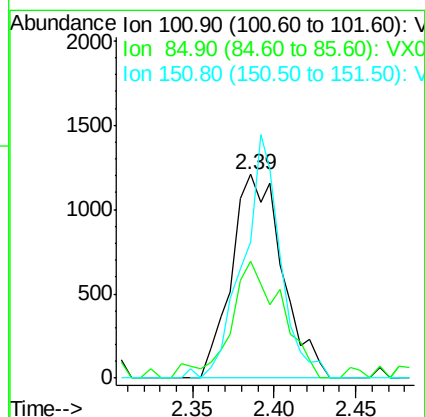
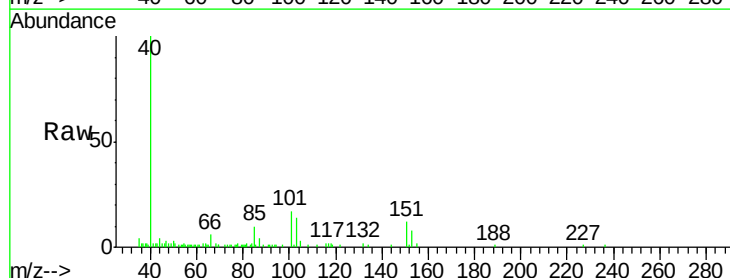
Tgt Ion: 101 Resp: 2621

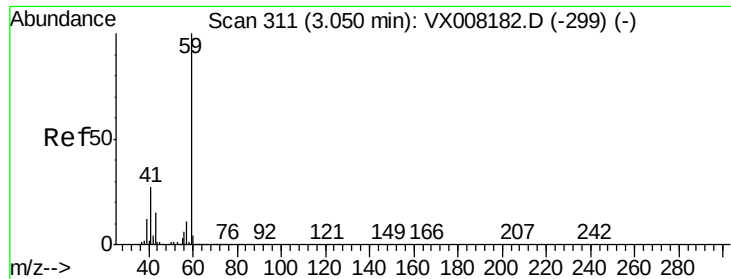
Ion Ratio Lower Upper

101 100

85 57.5 33.8 50.6#

151 87.8 69.1 103.7



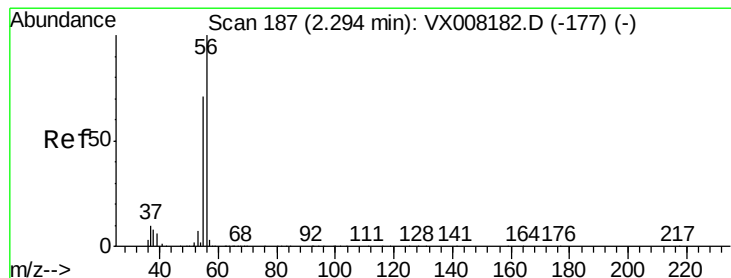
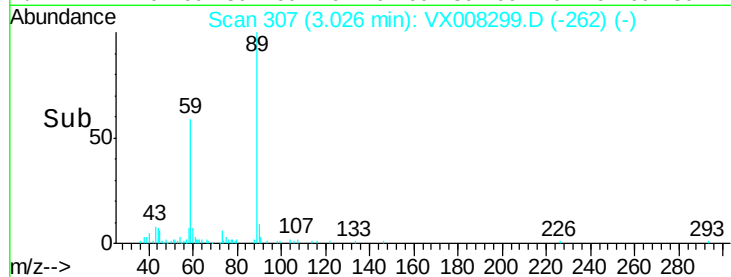
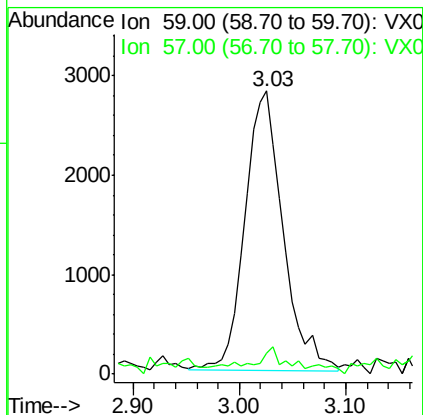
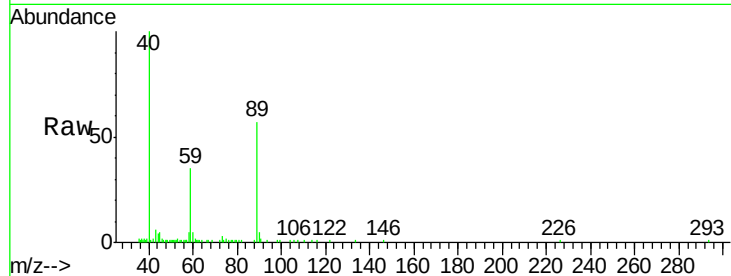


#11

Tert butyl alcohol
 Concen: 9.124 ug/l
 RT: 3.03 min Scan# 307
 Delta R.T. -0.02 min
 Lab File: VX008299.D
 Acq: 21 Mar 2019 18:42

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T2-UV(PRE)

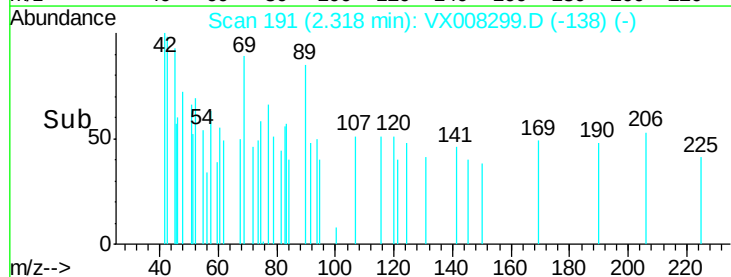
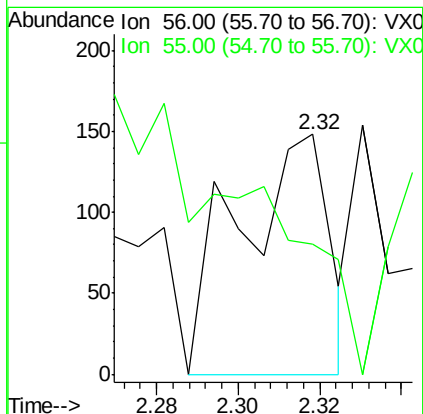
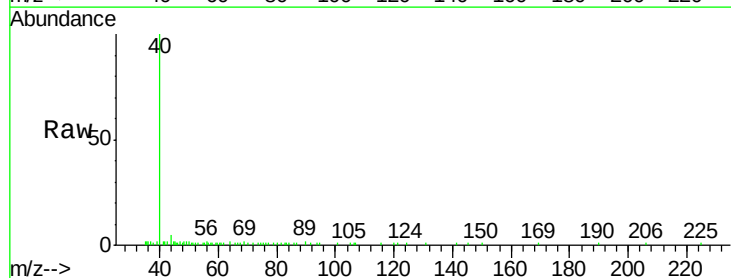
Tot Ion: 59 Resp: 7102
 Ion Ratio Lower Upper
 59 100
 57 2.1 8.2 12.2#

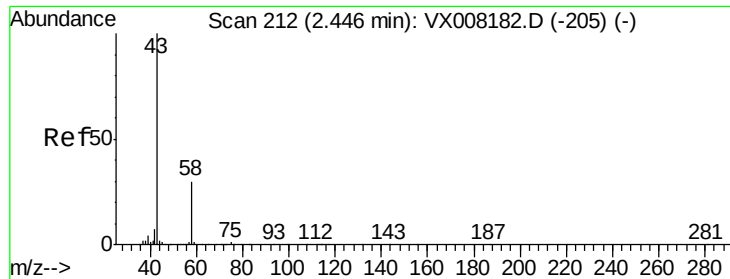


#13

Acrolein
 Concen: Below Cal
 RT: 2.32 min Scan# 191
 Delta R.T. 0.03 min
 Lab File: VX008299.D
 Acq: 21 Mar 2019 18:42

Tgt Ion: 56 Resp: 228
 Ion Ratio Lower Upper
 56 100
 55 0.0 57.8 86.6#





#16

Acetone

Concen: 3.850 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

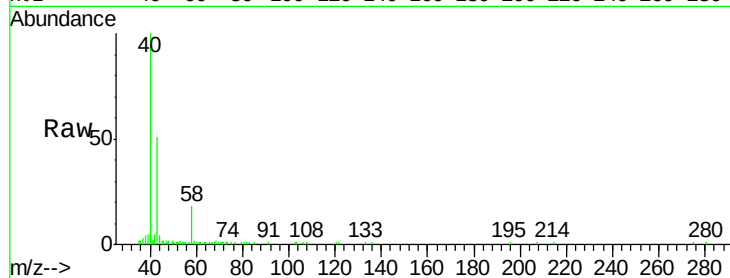
M4-T2-UV(PRE)

Tot Ion: 43 Resp: 7940

Ion Ratio Lower Upper

43 100

58 35.4 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

4000

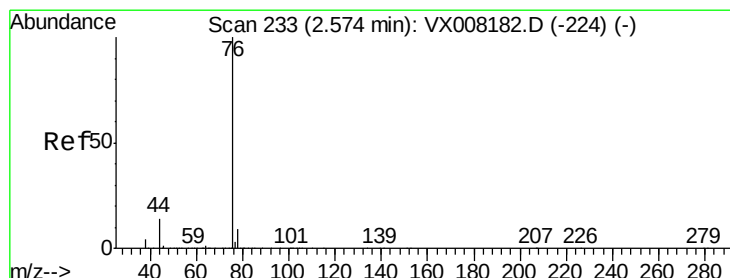
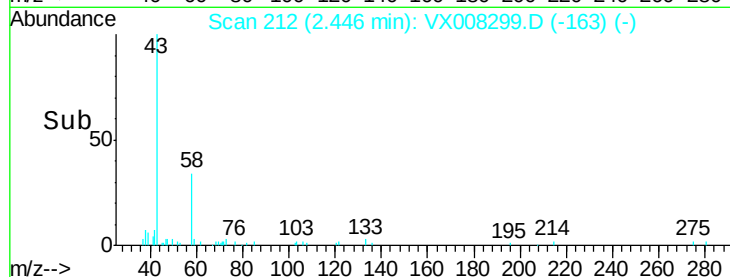
3000

2000

1000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 0.743 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008299.D

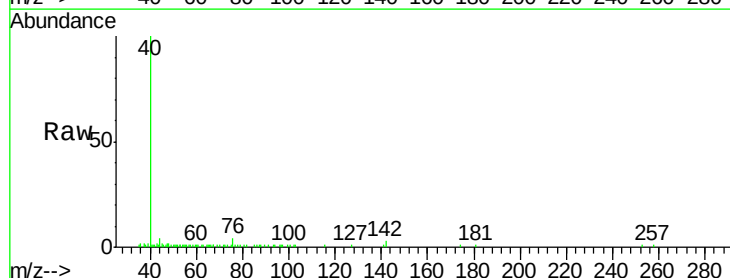
Acq: 21 Mar 2019 18:42

Tgt Ion: 76 Resp: 653

Ion Ratio Lower Upper

76 100

78 32.9 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

300

250

200

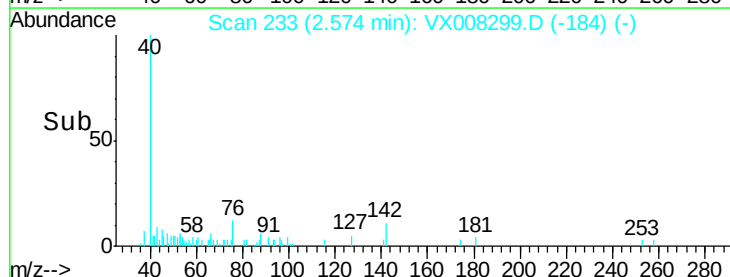
150

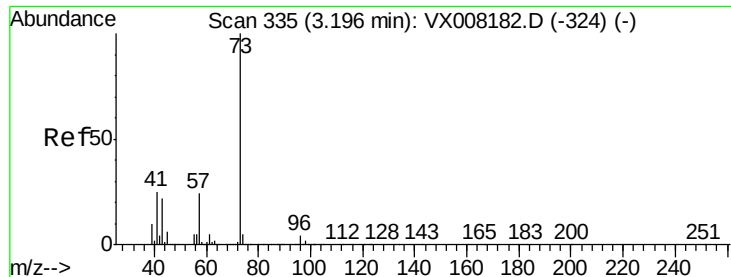
100

50

0

Time--> 2.50 2.55 2.60



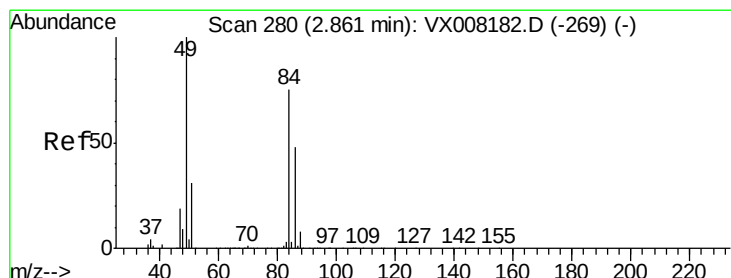
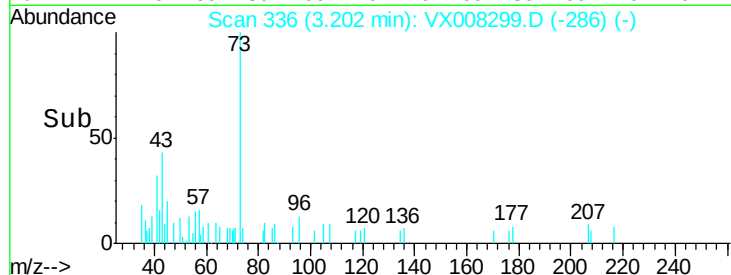
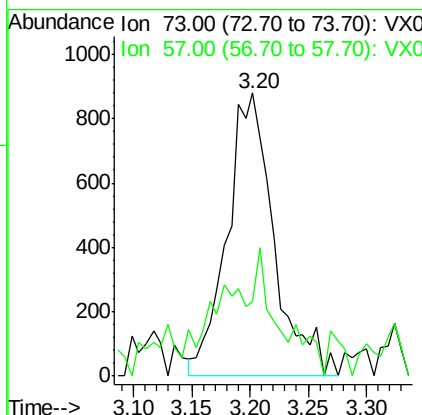
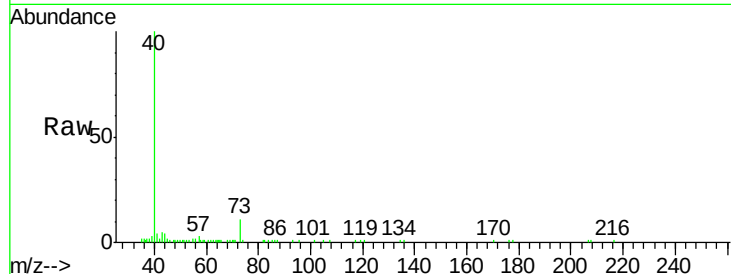


#19

Methyl tert-butyl Ether
 Concen: 0.233 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. 0.01 min
 Lab File: VX008299.D
 Acq: 21 Mar 2019 18:42

Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T2-UV(PRE)

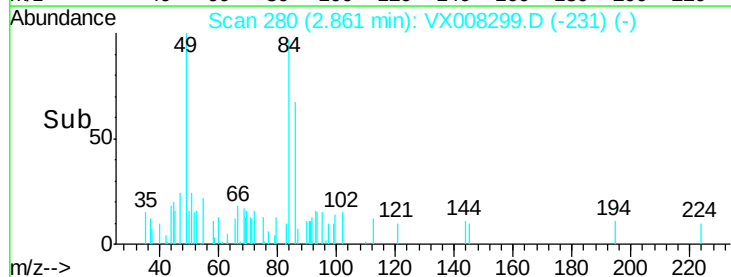
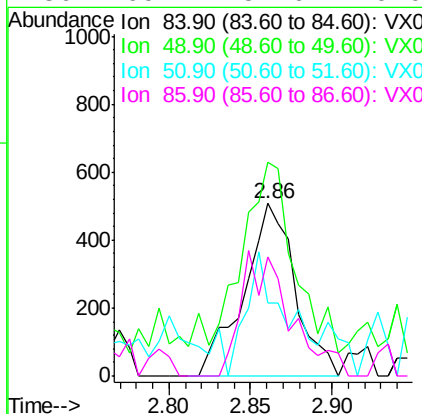
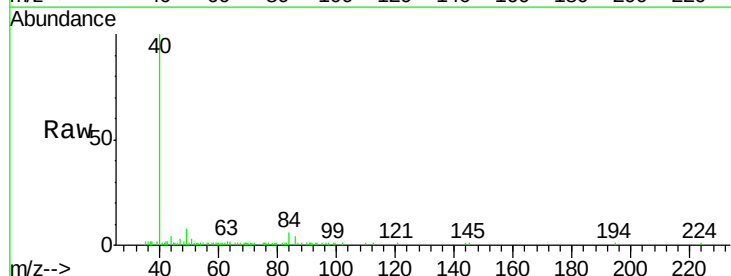
Tot Ion: 73 Resp: 2469
 Ion Ratio Lower Upper
 73 100
 57 14.1 18.2 27.4#

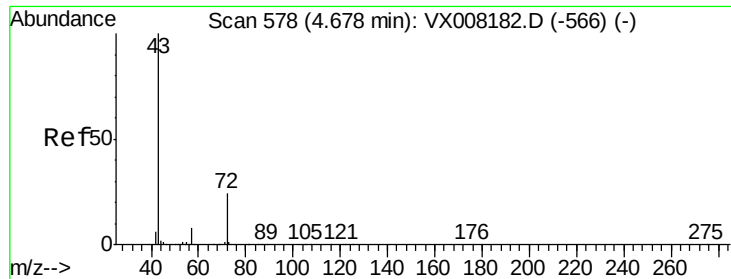


#20

Methylene Chloride
 Concen: 0.322 ug/l
 RT: 2.86 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX008299.D
 Acq: 21 Mar 2019 18:42

Tgt Ion: 84 Resp: 1109
 Ion Ratio Lower Upper
 84 100
 49 111.0 99.3 148.9
 51 38.7 31.3 46.9
 86 69.2 52.6 79.0





#25

2-Butanone

Concen: 0.292 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

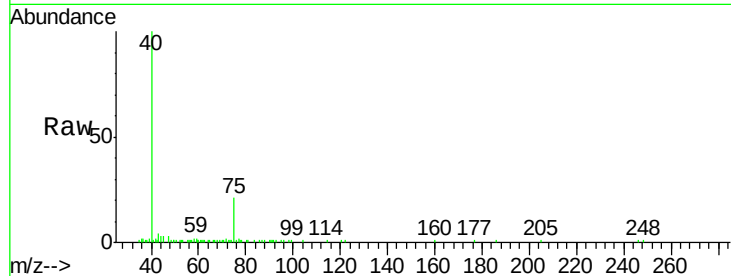
M4-T2-UV(PRE)

Tot Ion: 43 Resp: 889

Ion Ratio Lower Upper

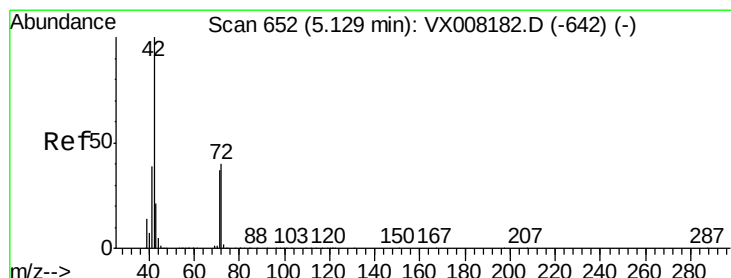
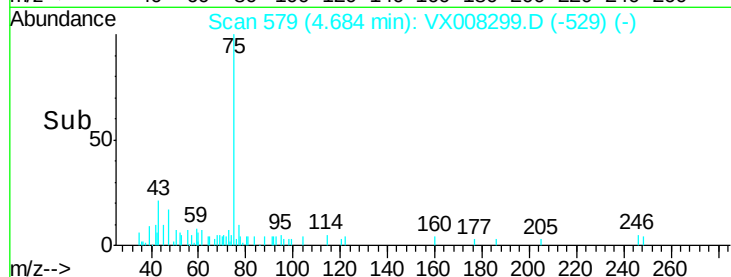
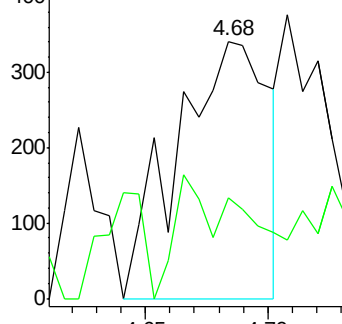
43 100

72 13.8 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.565 ug/l

RT: 5.15 min Scan# 655

Delta R.T. 0.02 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

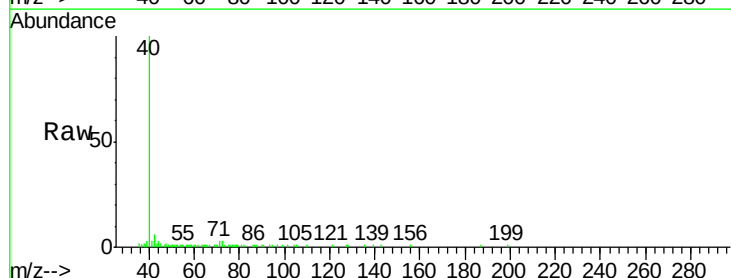
Tgt Ion: 42 Resp: 1076

Ion Ratio Lower Upper

42 100

72 54.1 33.8 50.6#

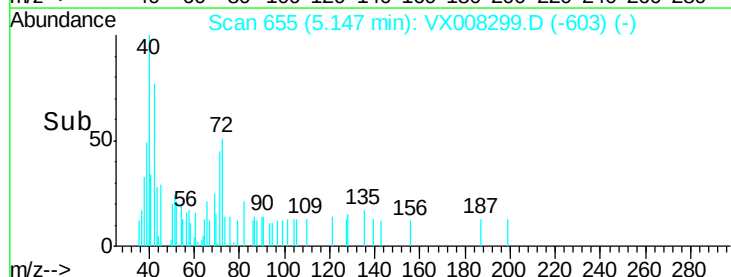
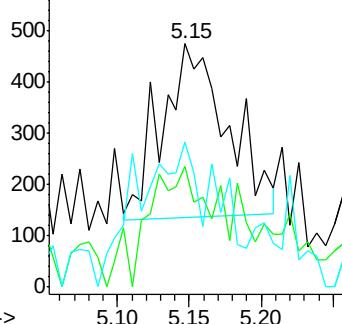
71 21.8 31.5 47.3#

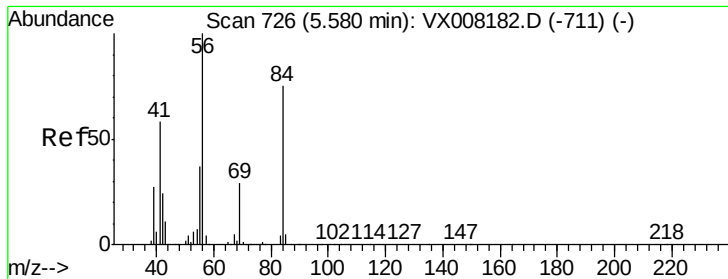


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

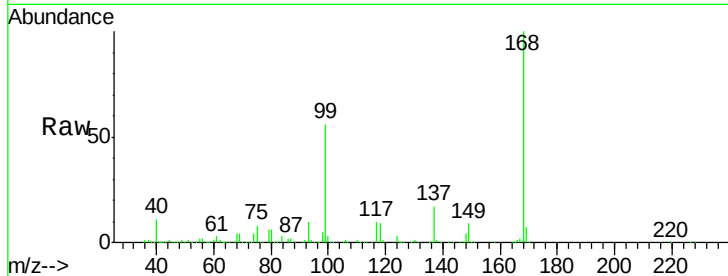




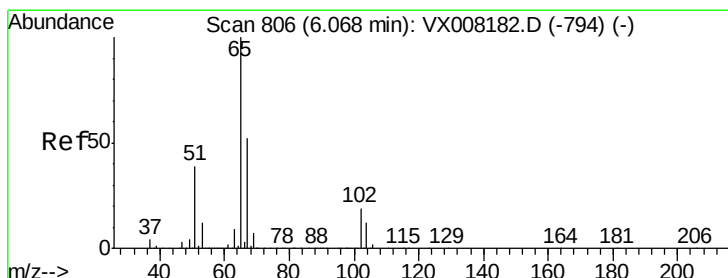
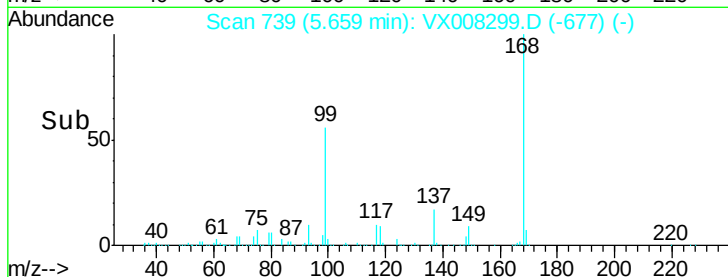
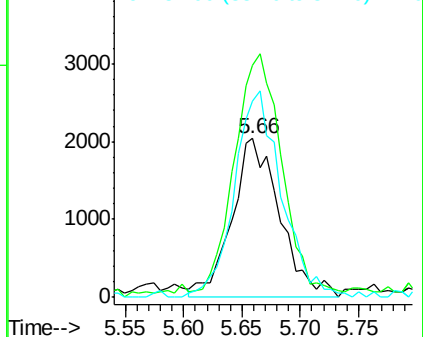
#31
Cyclohexane
Concen: 0.968 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008299.D
Acq: 21 Mar 2019 18:42

Instrument :
MSVOA_X
ClientSampleId :
M4-T2-UV(PRE)

Tot Ion: 56 Resp: 5836
Ion Ratio Lower Upper
56 100
69 150.4 24.0 36.0#
84 127.6 65.3 97.9#

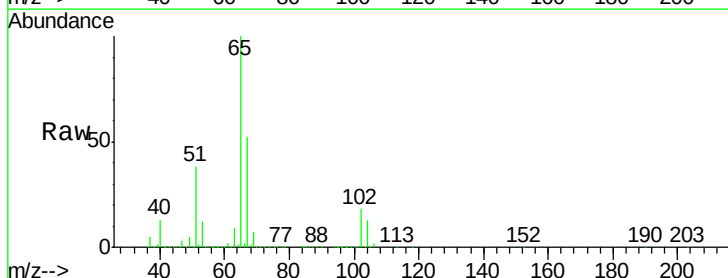


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

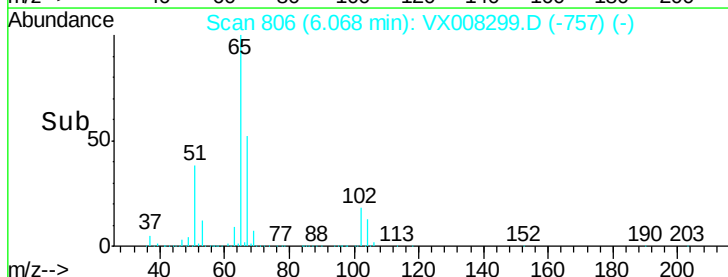
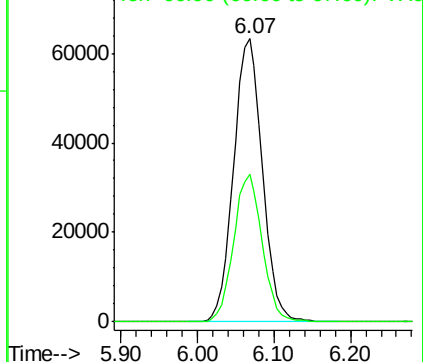


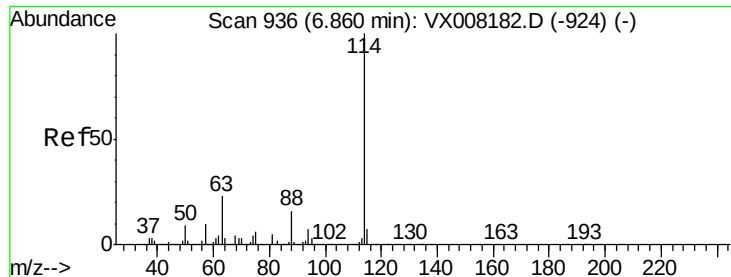
#33
1,2-Dichloroethane-d4
Concen: 45.158 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX008299.D
Acq: 21 Mar 2019 18:42

Tgt Ion: 65 Resp: 164205
Ion Ratio Lower Upper
65 100
67 52.0 0.0 110.0



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

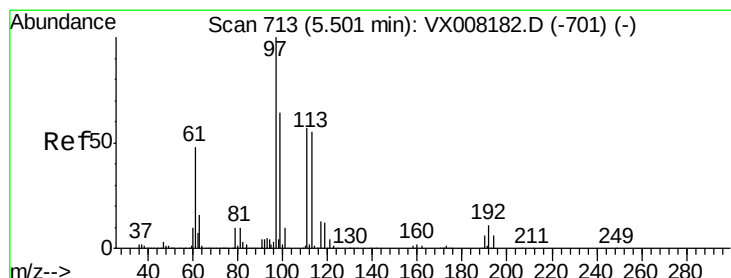
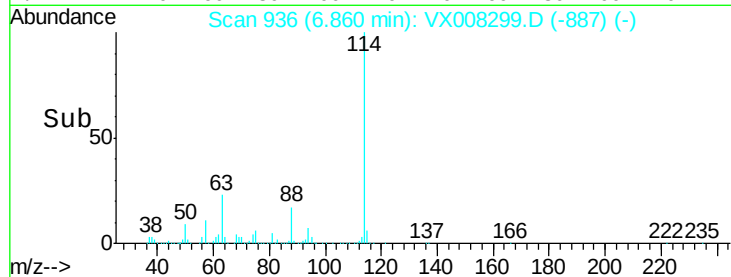
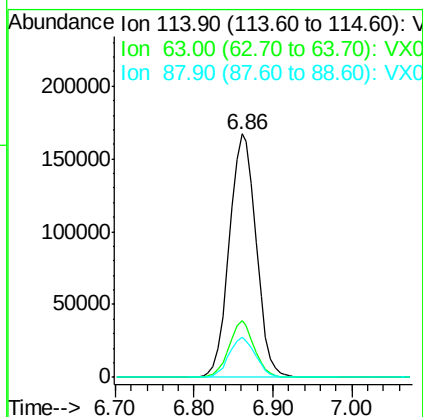
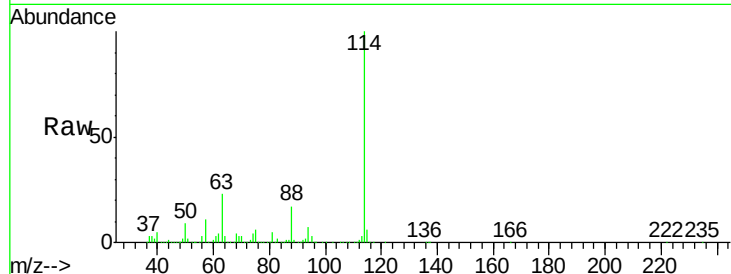




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008299.D
 Acq: 21 Mar 2019 18:42

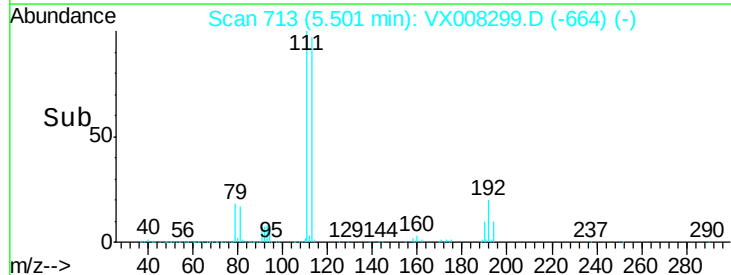
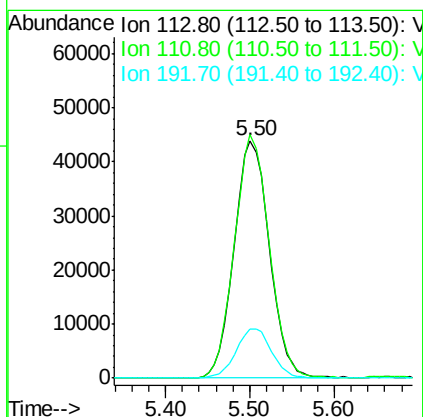
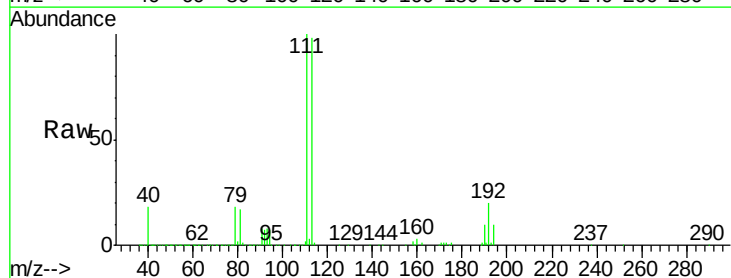
Instrument :
 MSVOA_X
 ClientSampleId :
 M4-T2-UV(PRE)

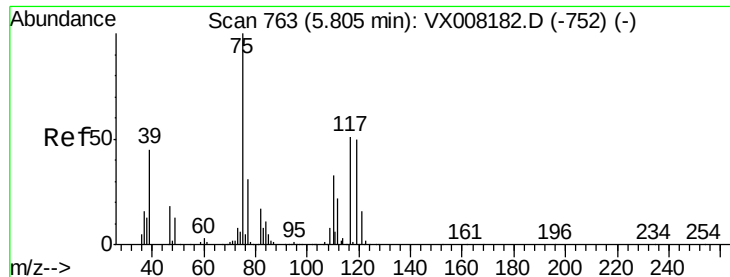
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.1	0.0	39.8
88	16.5	0.0	31.4



#35
 Dibromofluoromethane
 Concen: 47.043 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VX008299.D
 Acq: 21 Mar 2019 18:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.4	122.0
192	21.0	19.4	29.0





#36

1,1-Dichloropropene

Concen: 4.092 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.14 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-UV(PRE)

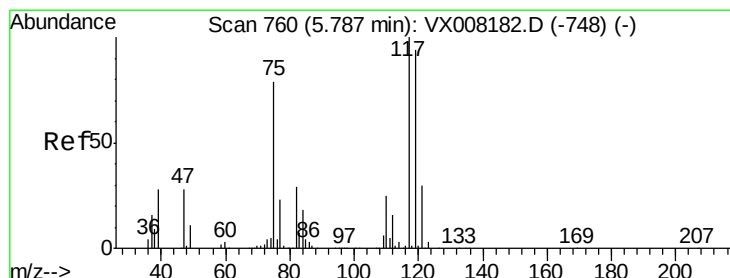
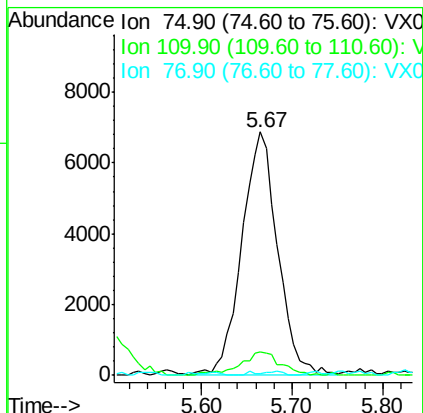
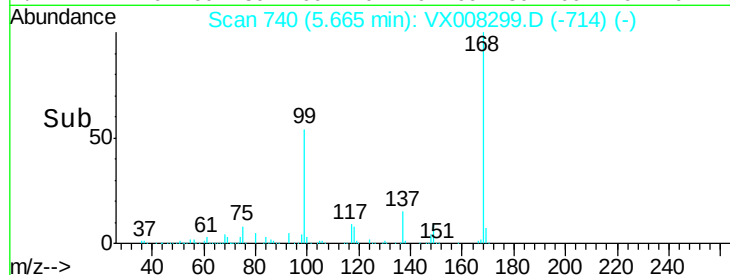
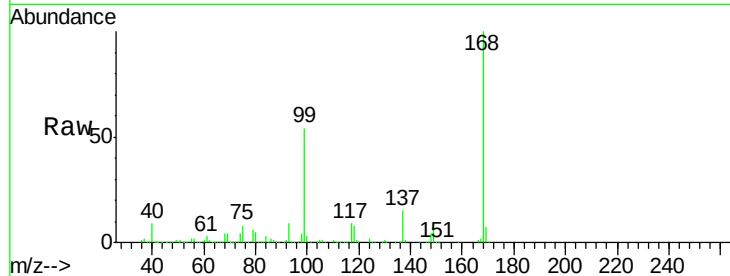
Tot Ion: 75 Resp: 18861

Ion Ratio Lower Upper

75 100

110 10.8 18.4 55.0#

77 0.5 25.0 37.4#



#38

Carbon Tetrachloride

Concen: 5.779 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

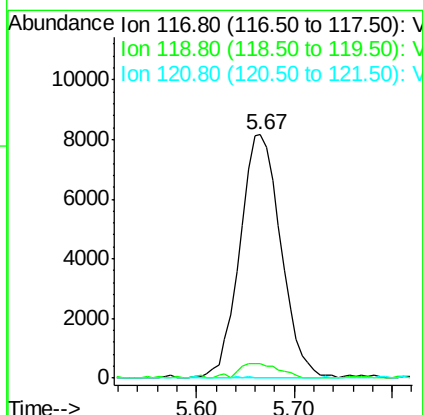
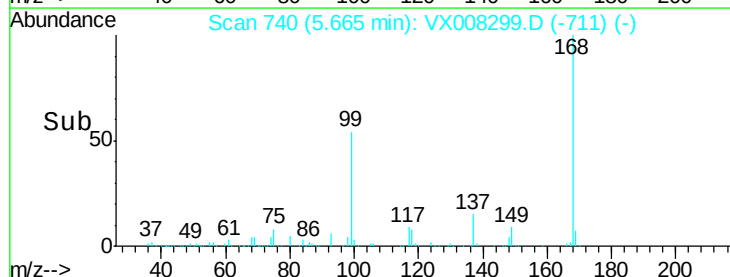
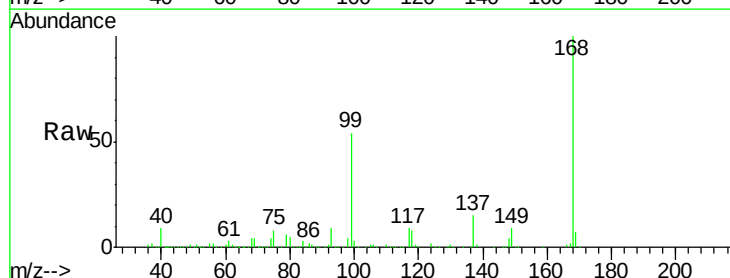
Tgt Ion: 117 Resp: 23736

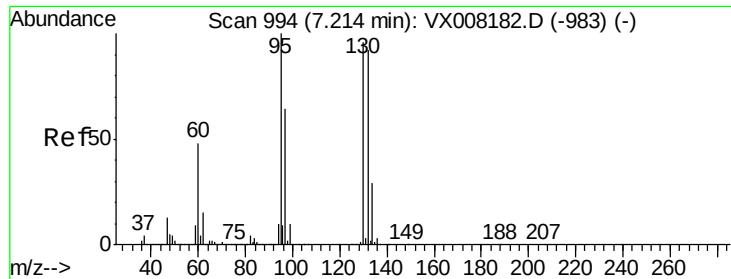
Ion Ratio Lower Upper

117 100

119 6.1 76.2 114.2#

121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 0.263 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.01 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

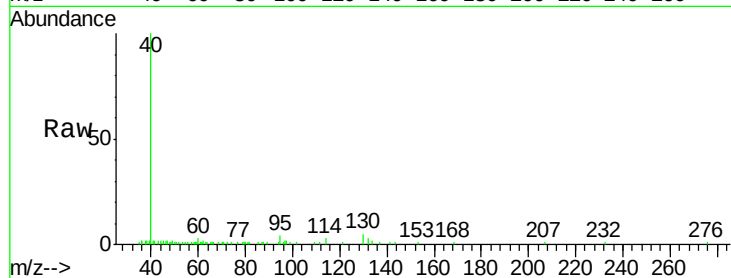
M4-T2-UV(PRE)

Tot Ion:130 Resp: 876

Ion Ratio Lower Upper

130 100

95 57.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

400

300

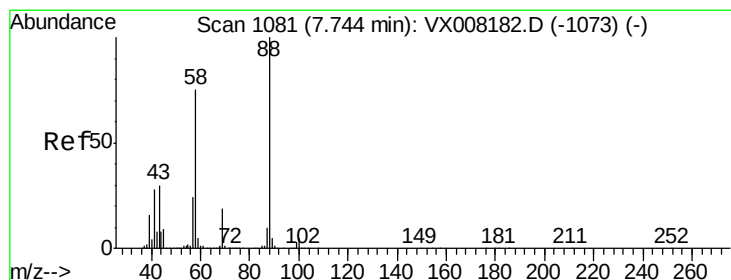
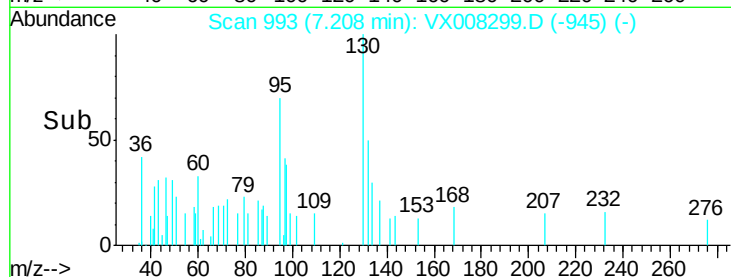
200

100

0

7.15 7.20 7.25

Time-->



#49

1,4-Dioxane

Concen: 1.818 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

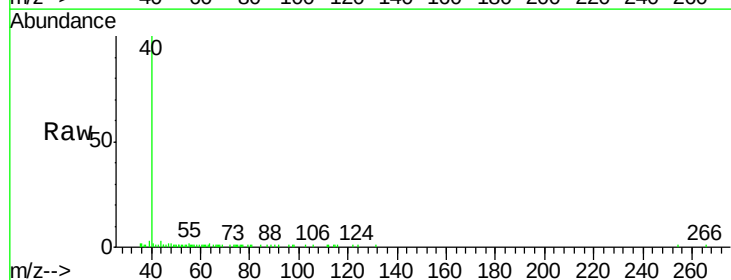
Tgt Ion: 88 Resp: 149

Ion Ratio Lower Upper

88 100

43 142.3 25.1 37.7#

58 69.1 57.8 86.6



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

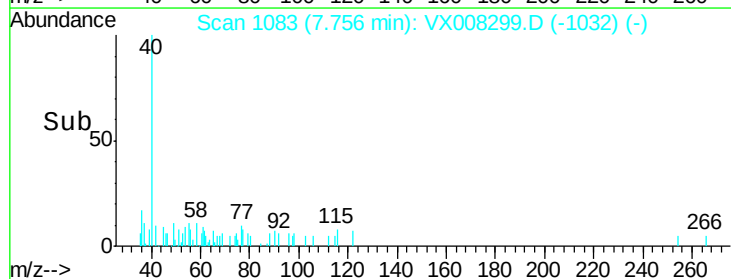
200

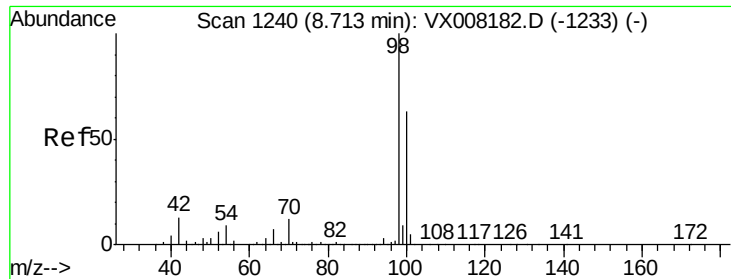
100

0

7.72 7.74 7.76 7.78

Time-->

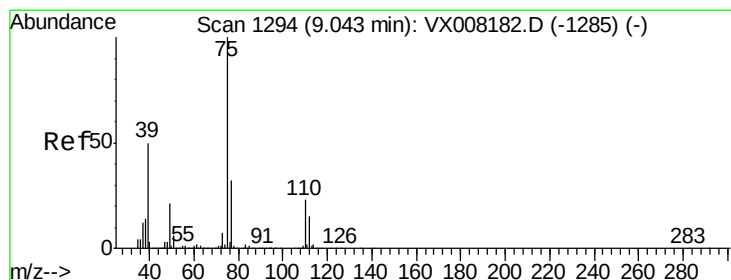
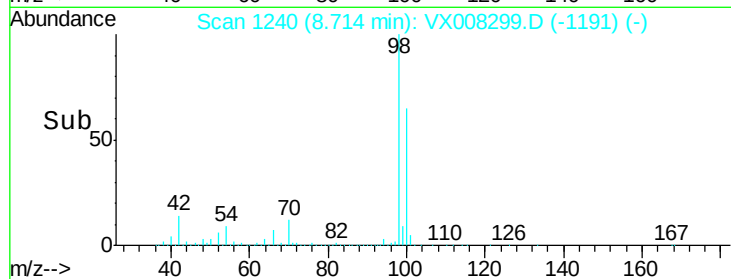
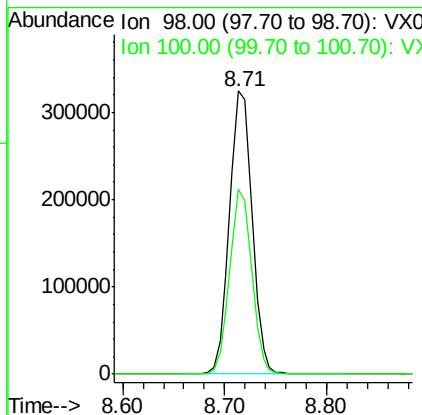
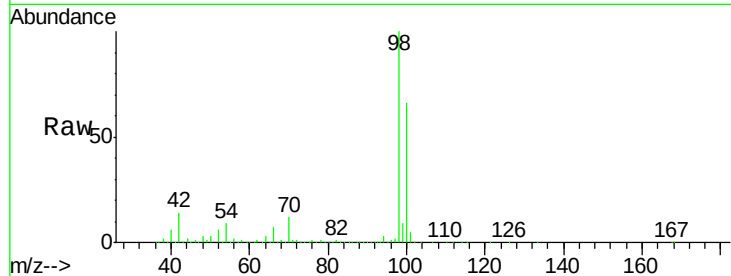




#50
Toluene-d8
Concen: 49.530 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008299.D
Acq: 21 Mar 2019 18:42

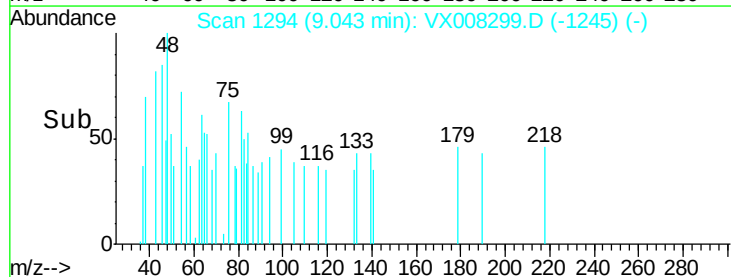
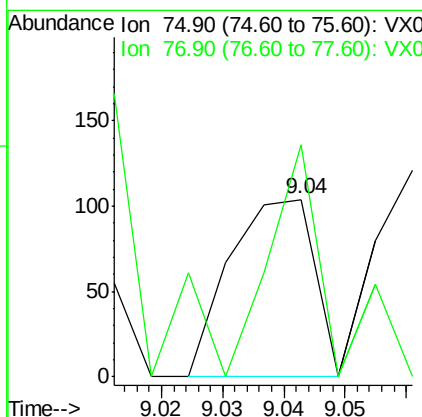
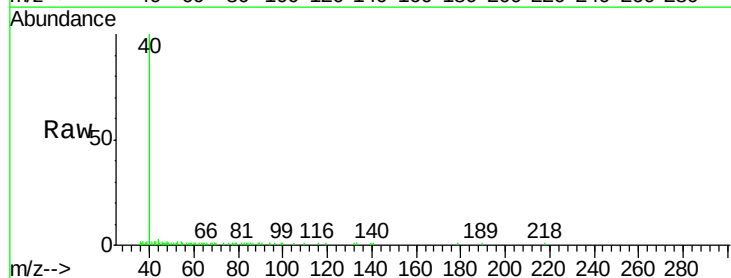
Instrument :
MSVOA_X
ClientSampleId :
M4-T2-UV(PRE)

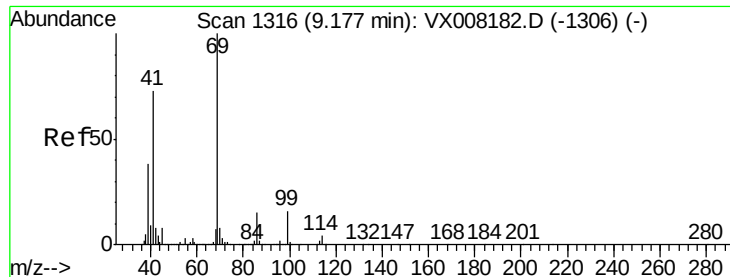
Tot Ion: 98 Resp: 497714
Ion Ratio Lower Upper
98 100
100 63.7 51.7 77.5



#53
t-1,3-Dichloropropene
Concen: 1.440 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VX008299.D
Acq: 21 Mar 2019 18:42

Tgt Ion: 75 Resp: 99
Ion Ratio Lower Upper
75 100
77 130.8 25.4 38.0#





#56

Ethyl methacrylate

Concen: 0.570 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-UV(PRE)

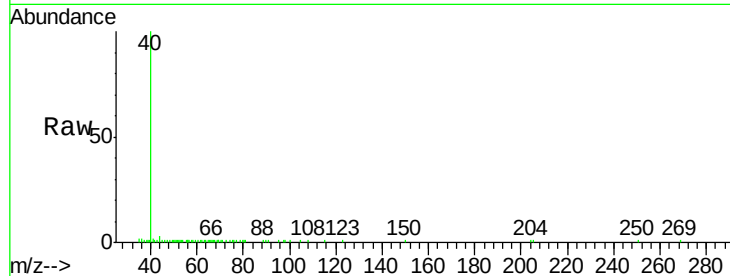
Tot Ion: 69 Resp: 257

Ion Ratio Lower Upper

69 100

41 0.0 54.2 81.4#

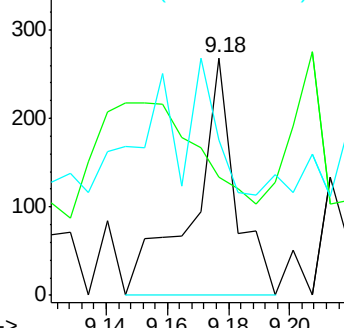
39 0.0 25.0 37.4#



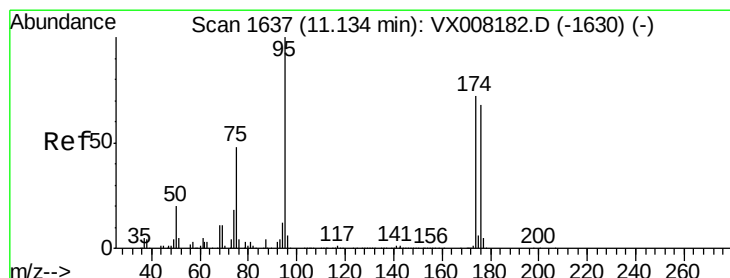
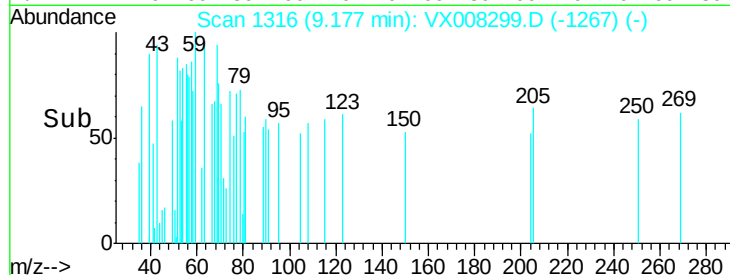
Abundance Ion 69.00 (68.70 to 69.70): VX0

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0



Time-->



#62

4-Bromofluorobenzene

Concen: 45.455 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

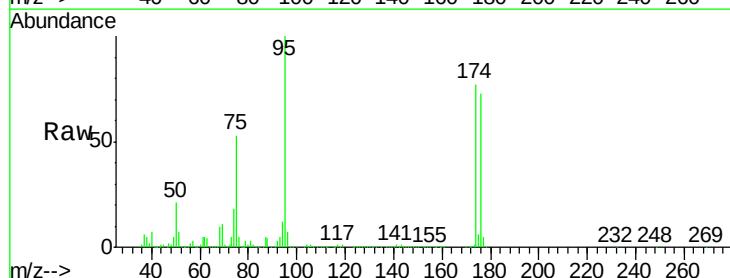
Tgt Ion: 95 Resp: 157273

Ion Ratio Lower Upper

95 100

174 82.5 0.0 182.8

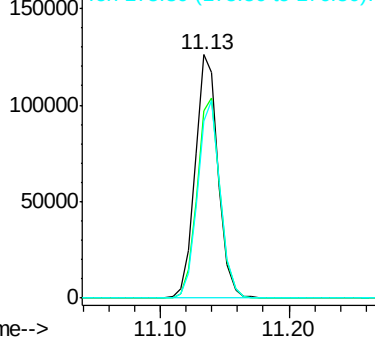
176 80.5 0.0 178.0



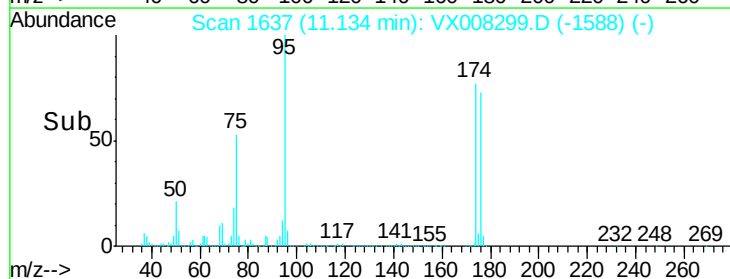
Abundance Ion 94.90 (94.60 to 95.60): VX0

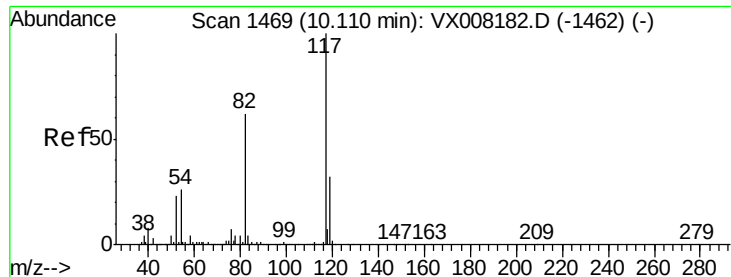
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

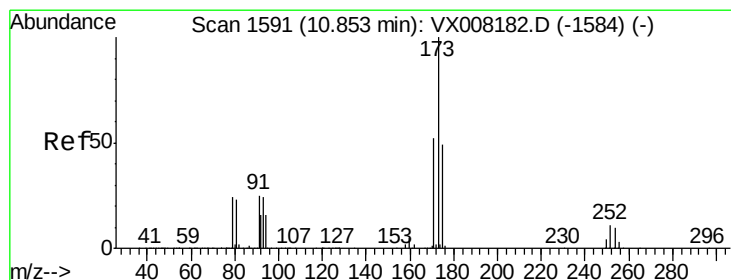
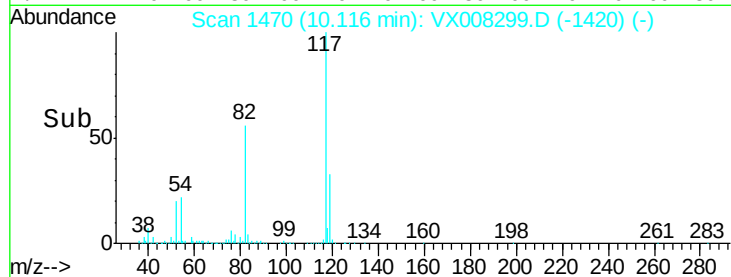
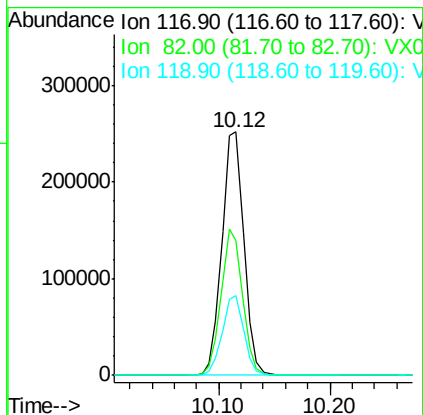
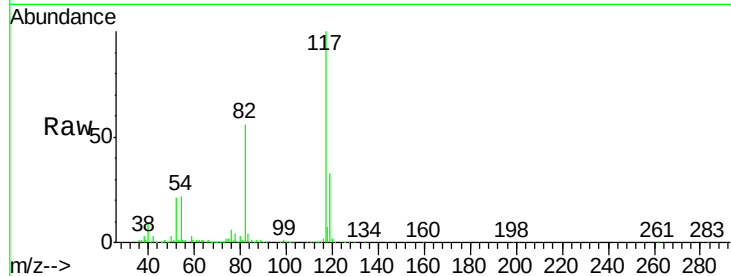




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX008299.D
Acq: 21 Mar 2019 18:42

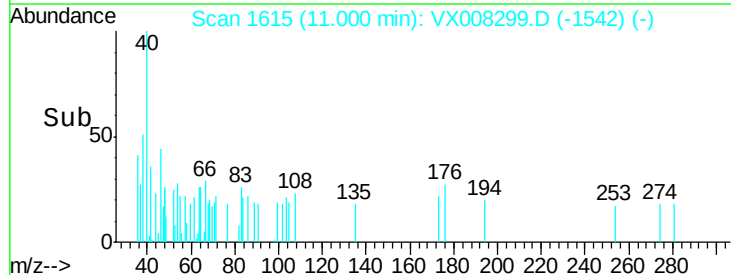
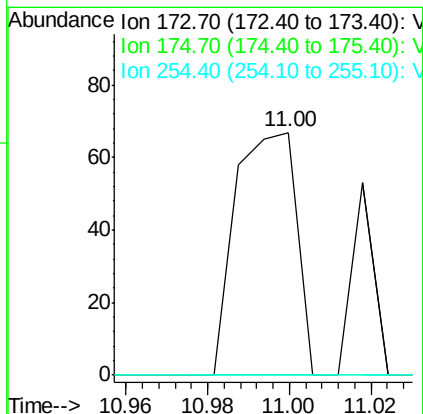
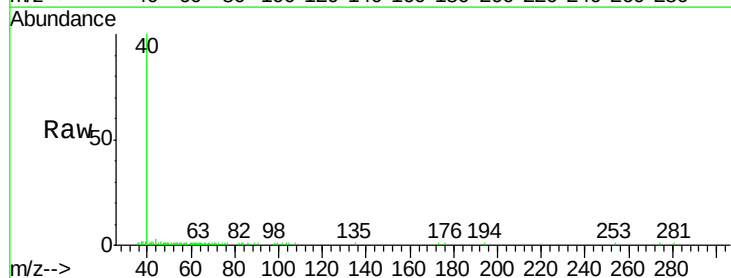
Instrument :
MSVOA_X
ClientSampleId :
M4-T2-UV(PRE)

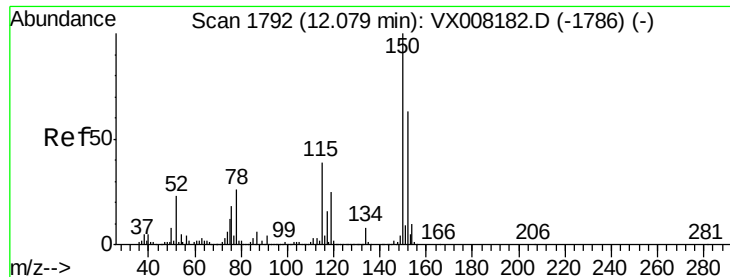
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.6	44.3	66.5
119	32.7	25.3	37.9



#71
Bromoform
Concen: 2.229 ug/l
RT: 11.00 min Scan# 1615
Delta R.T. 0.15 min
Lab File: VX008299.D
Acq: 21 Mar 2019 18:42

Tgt Ion	Ratio	Lower	Upper
173	100		
175	0.0	24.3	72.9#
254	0.0	0.1	0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-UV(PRE)

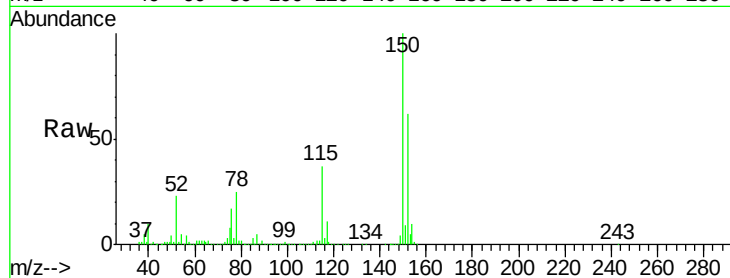
Tot Ion:152 Resp: 141955

Ion Ratio Lower Upper

152 100

115 59.4 38.6 115.7

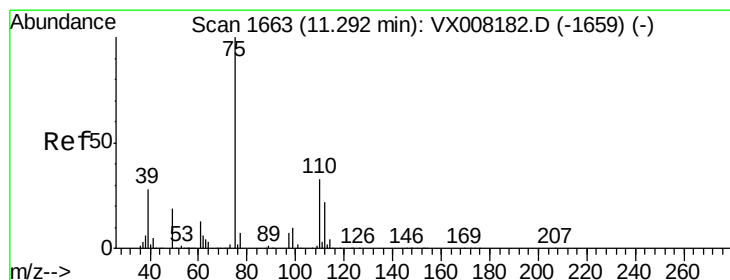
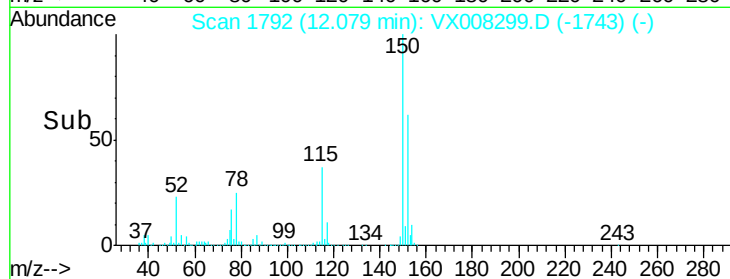
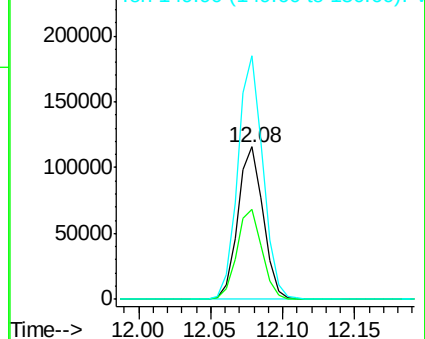
150 158.6 0.0 348.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.766 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008299.D

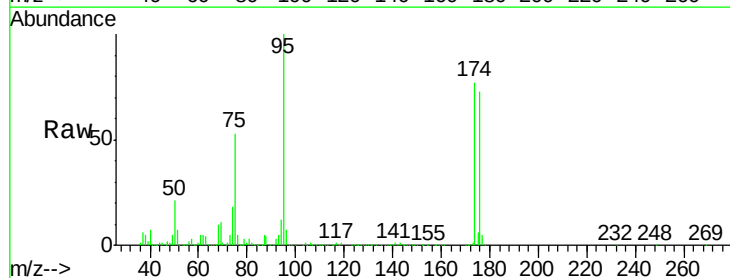
Acq: 21 Mar 2019 18:42

Tgt Ion: 75 Resp: 82910

Ion Ratio Lower Upper

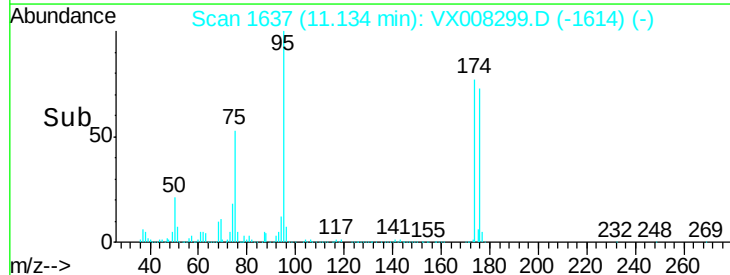
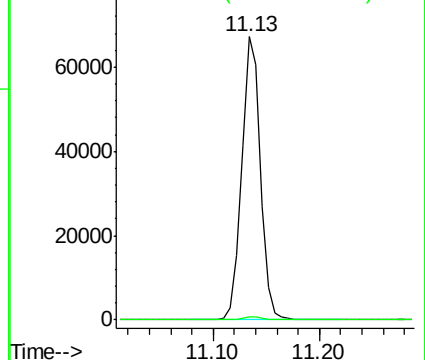
75 100

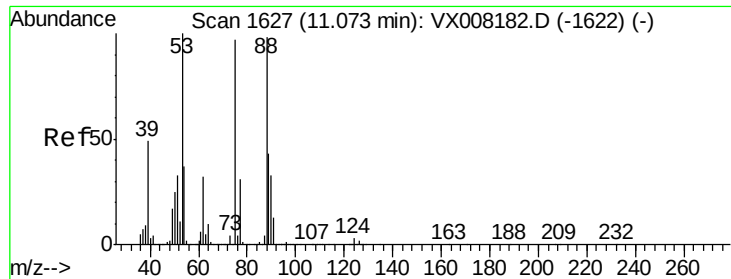
77 1.2 18.9 56.7#



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: 52.853 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008299.D

Acq: 21 Mar 2019 18:42

Instrument :

MSVOA_X

ClientSampleId :

M4-T2-UV(PRE)

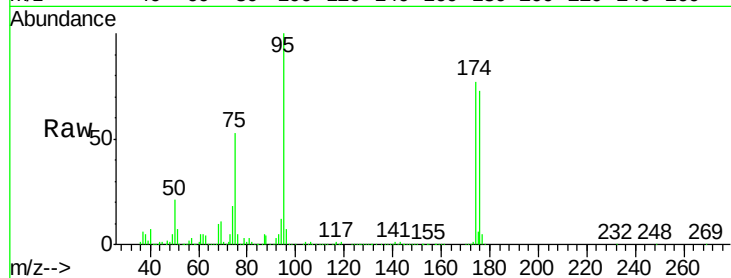
Tot Ion: 75 Resp: 82910

Ion Ratio Lower Upper

75 100

53 0.3 76.1 114.1#

89 0.2 36.3 54.5#



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

