

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121918\
 Data File : VX006641.D
 Acq On : 19 Dec 2018 17:11
 Operator : JC/MD
 Sample : J6486-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 20 04:03:08 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	620186	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	990579	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	903675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	426880	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	343886	51.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.90%	
35) Dibromofluoromethane	5.50	113	294142	46.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.92%	
50) Toluene-d8	8.71	98	1172414	49.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.28%	
62) 4-Bromofluorobenzene	11.13	95	426851	49.35	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.70%	

Target Compounds

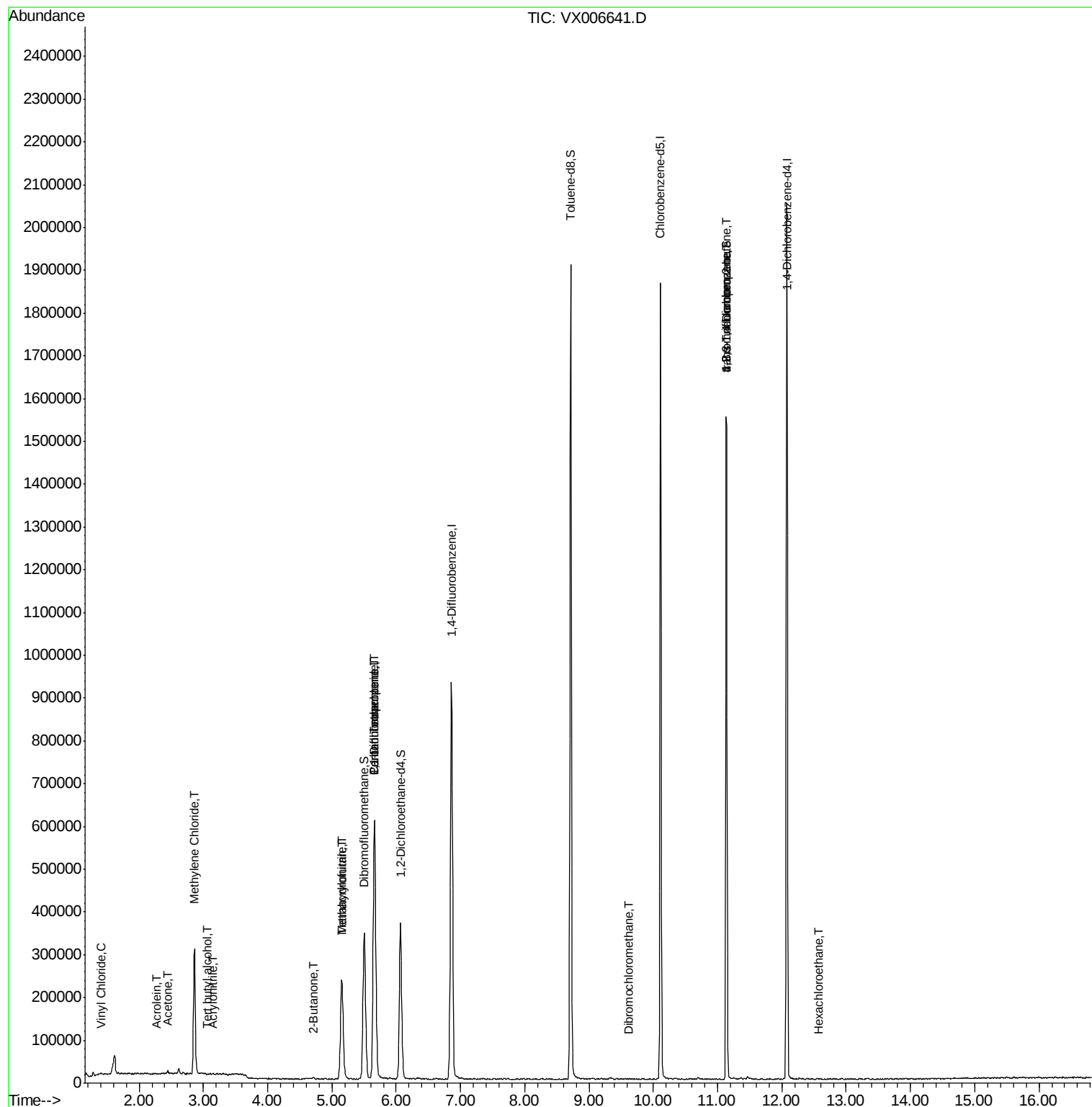
					Qvalue	
4) Vinyl Chloride	1.41	62	1333	0.209	ug/l #	79
5) Bromomethane	1.65	94	1435	Below Cal	#	38
11) Tert butyl alcohol	3.07	59	508	0.341	ug/l #	41
13) Acrolein	2.28	56	279	0.277	ug/l #	1
15) Acrylonitrile	3.14	53	890	0.269	ug/l #	62
16) Acetone	2.45	43	5596	1.822	ug/l	89
20) Methylene Chloride	2.86	84	139231	21.926	ug/l	99
25) 2-Butanone	4.71	43	5747	1.330	ug/l	97
28) Bromochloromethane	5.02	49	285	Below Cal	#	31
29) Tetrahydrofuran	5.15	42	211498	74.340	ug/l	99
36) 1,1-Dichloropropene	5.67	75	41980	5.117	ug/l #	48
38) Carbon Tetrachloride	5.66	117	59767	7.496	ug/l #	14
41) Methacrylonitrile	5.15	41	119557	26.371	ug/l #	43
49) 1,4-Dioxane	7.79	88	339	Below Cal	#	27
60) Dibromochloromethane	9.62	129	79	2.335	ug/l	61
76) 1,2,3-Trichloropropane	11.13	75	201110	25.350	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	201110	74.850	ug/l #	10
90) Hexachloroethane	12.57	117	42	3.303	ug/l	56

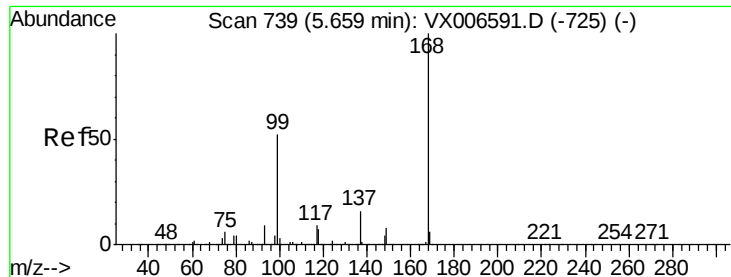
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

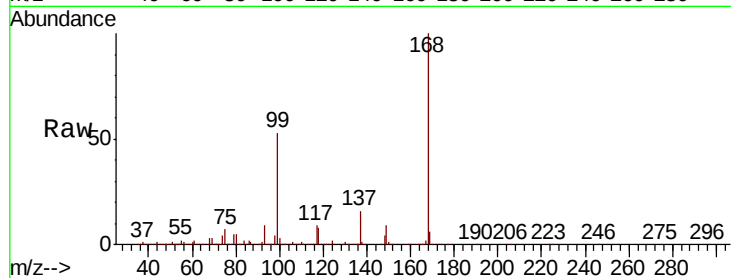
ClientSampleId :

Tot Ion:168 Resp: 620186

Ion Ratio Lower Upper

168 100

99 52.9 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

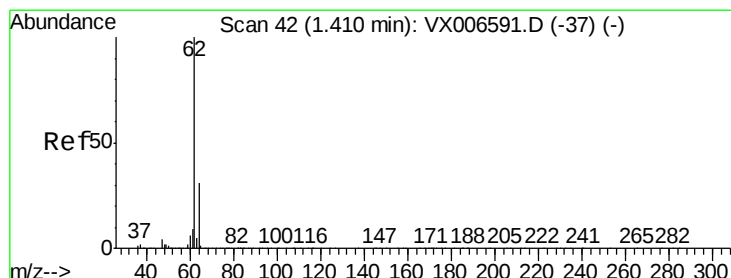
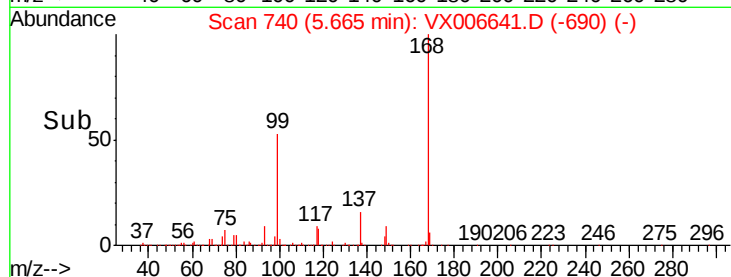
150000

100000

50000

0

Time-->



#4

Vinyl Chloride

Concen: 0.209 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006641.D

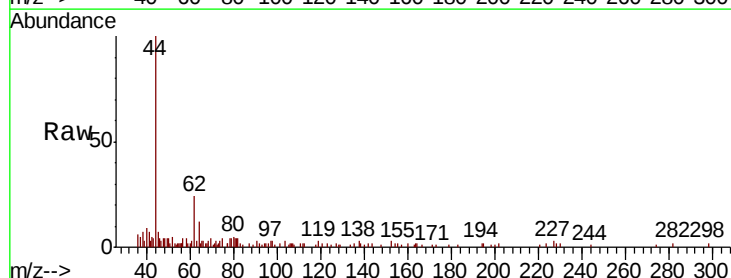
Acq: 19 Dec 2018 17:11

Tgt Ion: 62 Resp: 1333

Ion Ratio Lower Upper

62 100

64 43.0 25.1 37.7#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.41

1200

1000

800

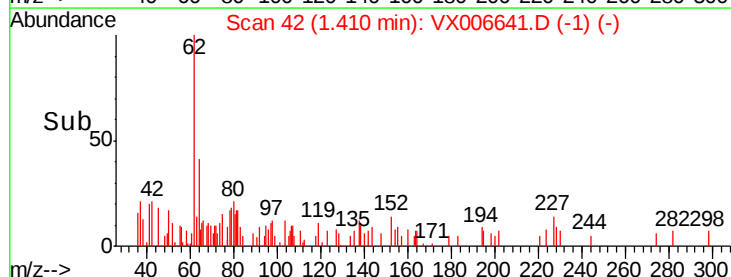
600

400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

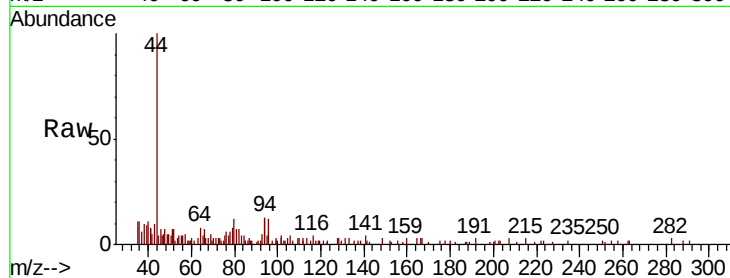
ClientSampleId :

Tot Ion: 94 Resp: 1435

Ion Ratio Lower Upper

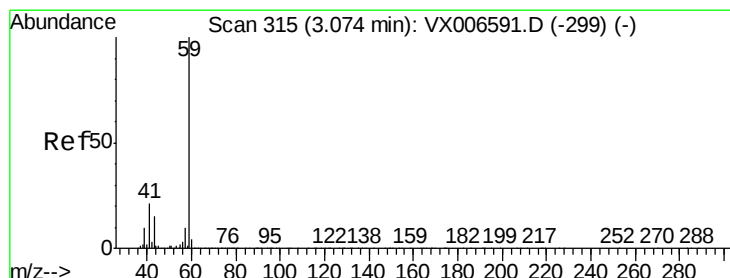
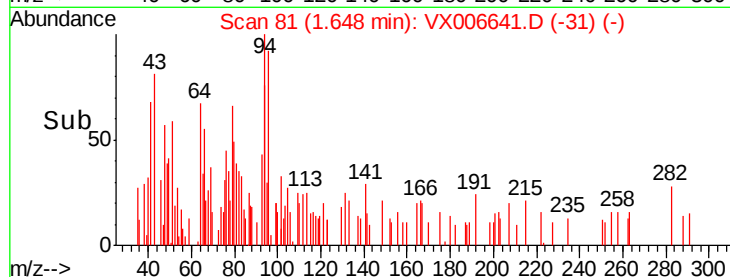
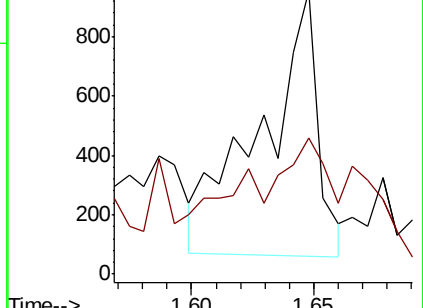
94 100

96 32.6 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#11

Tert butyl alcohol

Concen: 0.341 ug/l

RT: 3.07 min Scan# 315

Delta R.T. -0.00 min

Lab File: VX006641.D

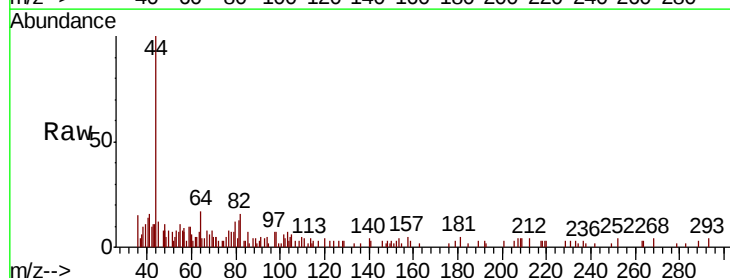
Acq: 19 Dec 2018 17:11

Tgt Ion: 59 Resp: 508

Ion Ratio Lower Upper

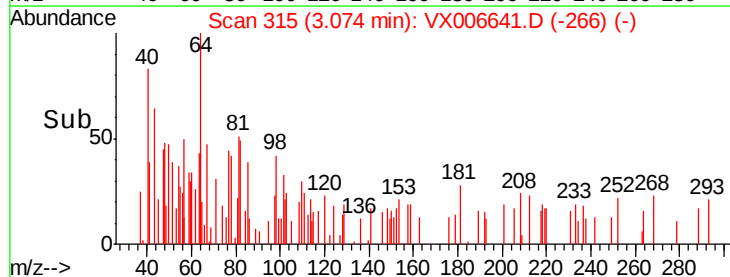
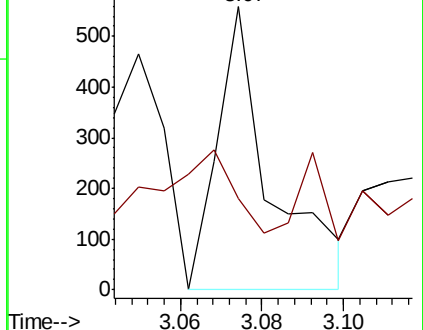
59 100

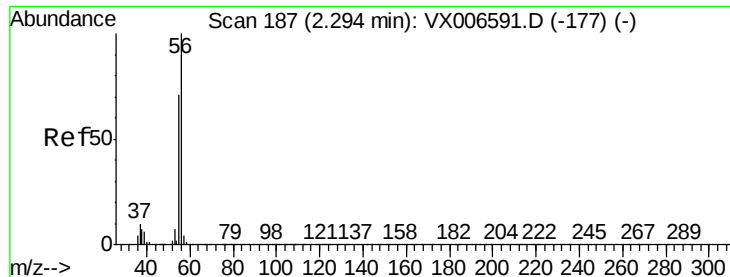
57 32.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.277 ug/l

RT: 2.28 min Scan# 184

Delta R.T. -0.02 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

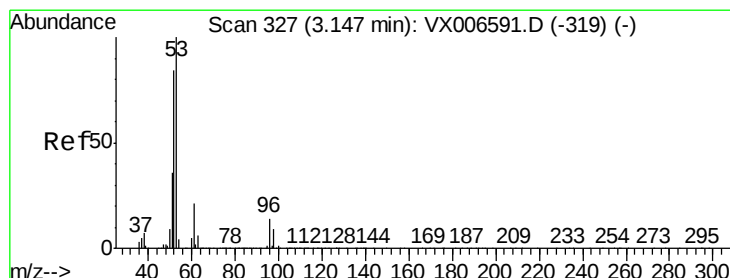
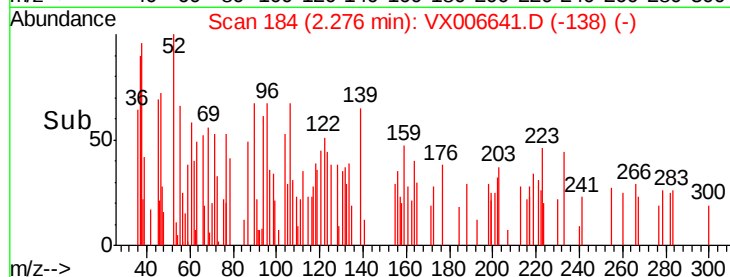
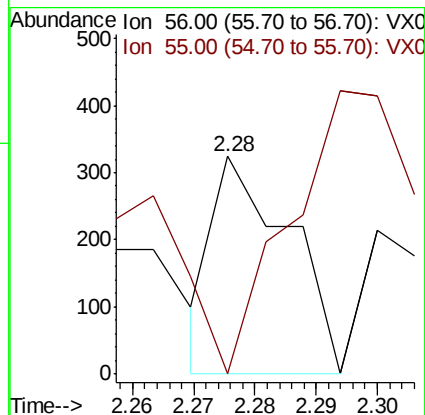
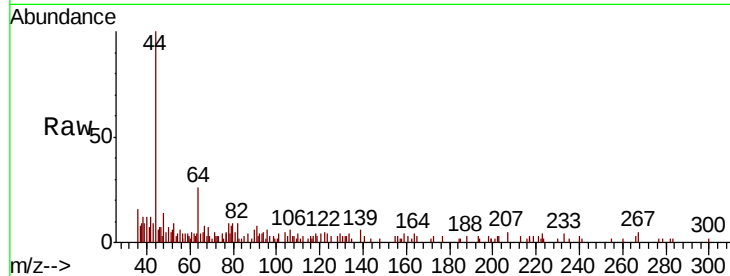
ClientSampled :

Tot Ion: 56 Resp: 279

Ion Ratio Lower Upper

56 100

55 233.7 58.2 87.4#



#15

Acrylonitrile

Concen: 0.269 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

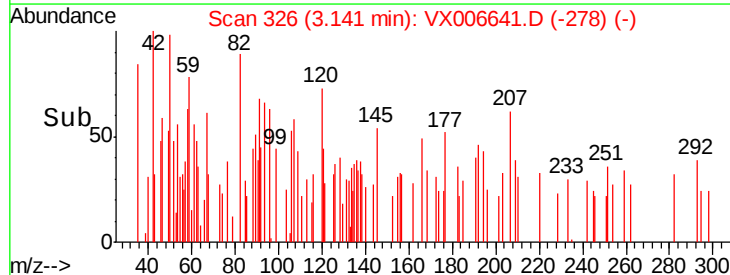
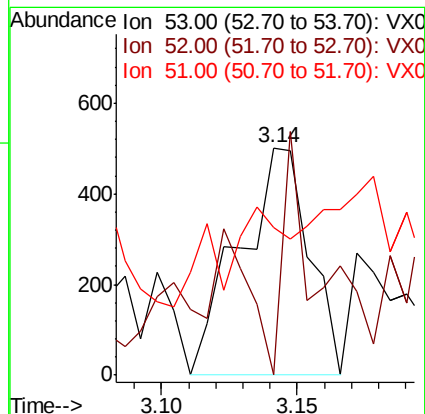
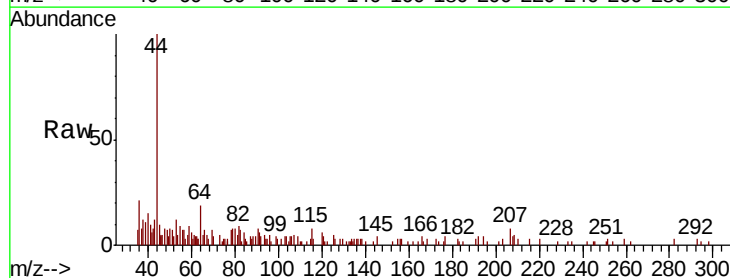
Tgt Ion: 53 Resp: 890

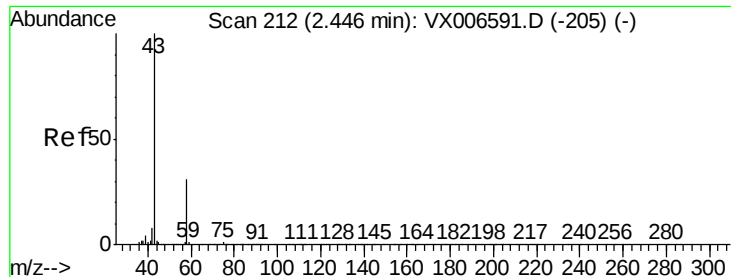
Ion Ratio Lower Upper

53 100

52 57.1 66.0 99.0#

51 0.0 28.6 42.8#

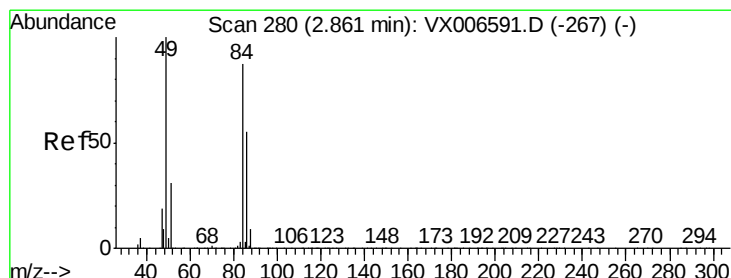
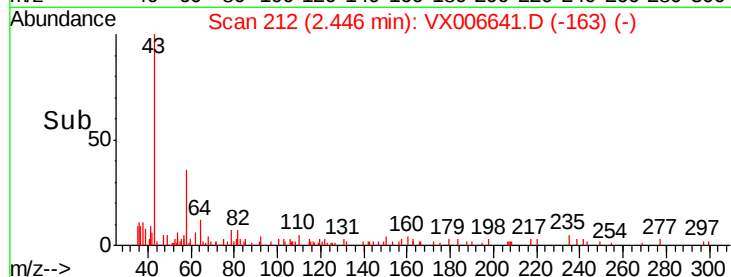
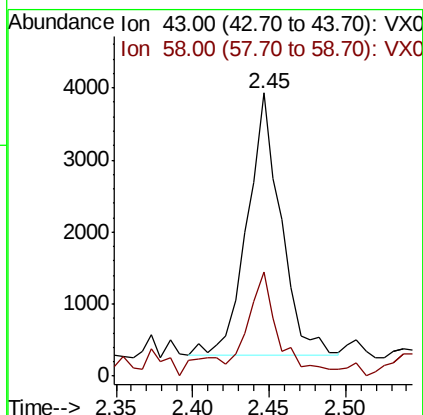
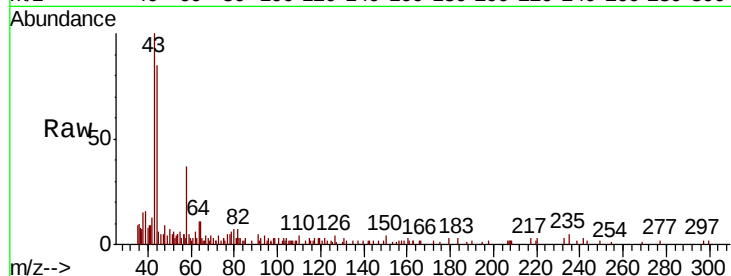




#16
Acetone
Concen: 1.822 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX006641.D
Acq: 19 Dec 2018 17:11

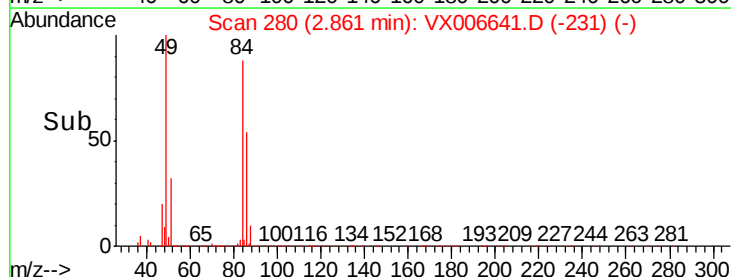
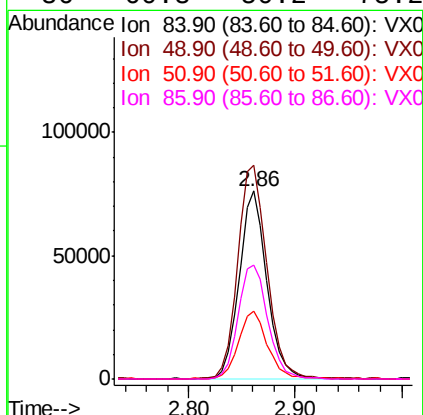
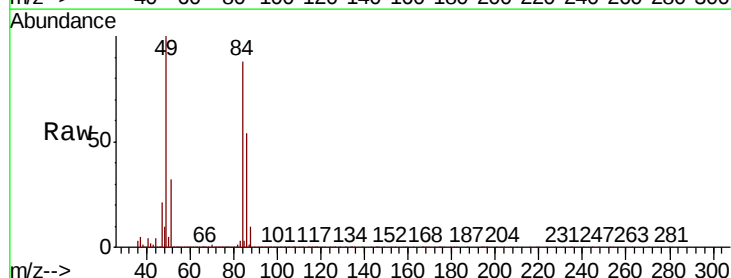
Instrument :
MSVOA_X
ClientSampleId :

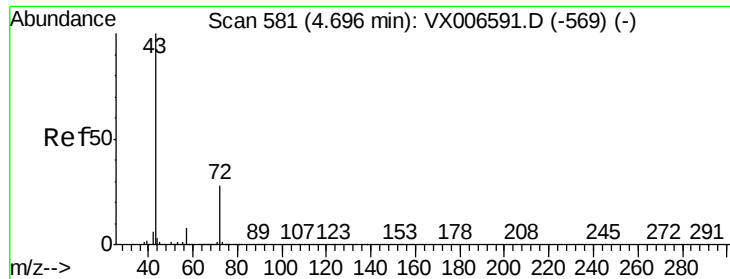
Tot Ion: 43 Resp: 5596
Ion Ratio Lower Upper
43 100
58 37.2 25.0 37.6



#20
Methylene Chloride
Concen: 21.926 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006641.D
Acq: 19 Dec 2018 17:11

Tgt Ion: 84 Resp: 139231
Ion Ratio Lower Upper
84 100
49 113.7 91.8 137.6
51 36.0 28.5 42.7
86 60.8 50.2 75.2





#25

2-Butanone

Concen: 1.330 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

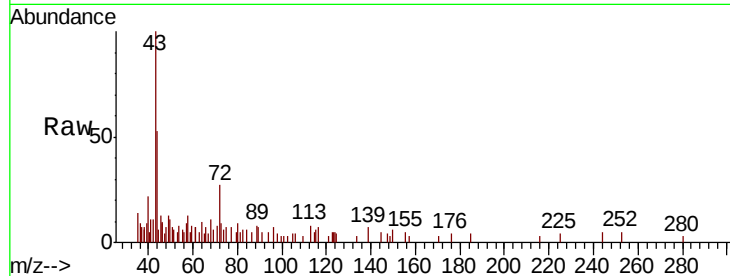
ClientSampleId :

Tot Ion: 43 Resp: 5747

Ion Ratio Lower Upper

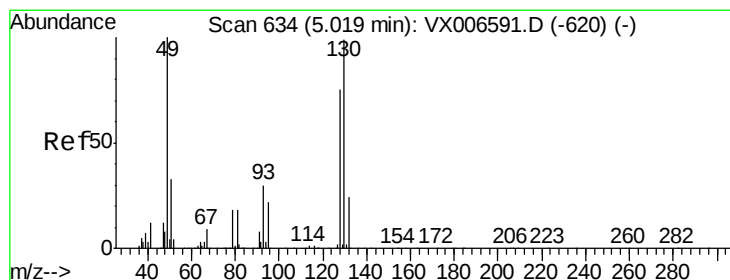
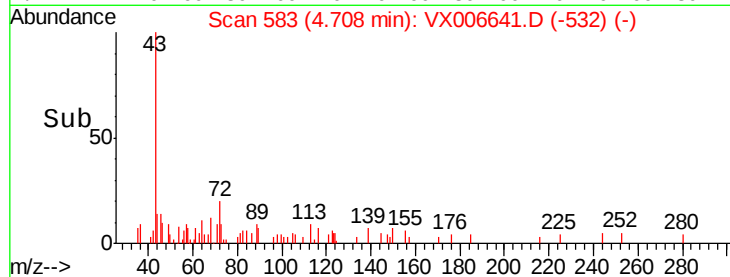
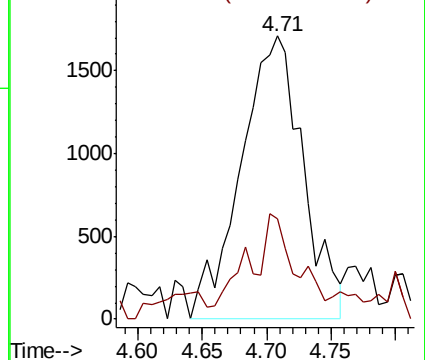
43 100

72 26.2 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: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

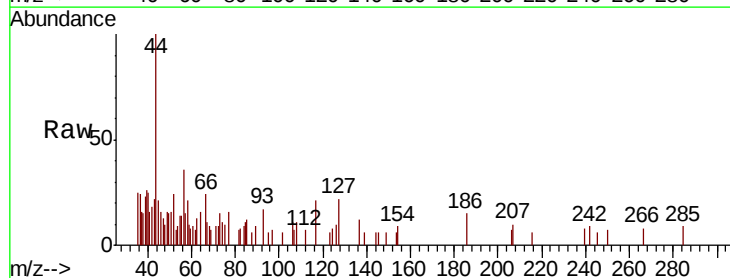
Tgt Ion: 49 Resp: 285

Ion Ratio Lower Upper

49 100

129 0.0 0.0 5.4

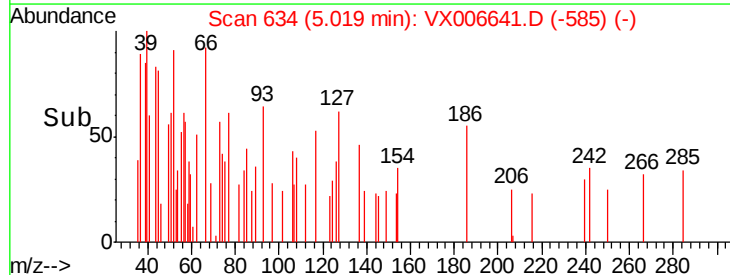
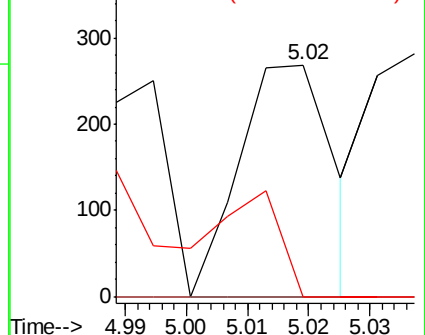
130 27.7 77.7 116.5#

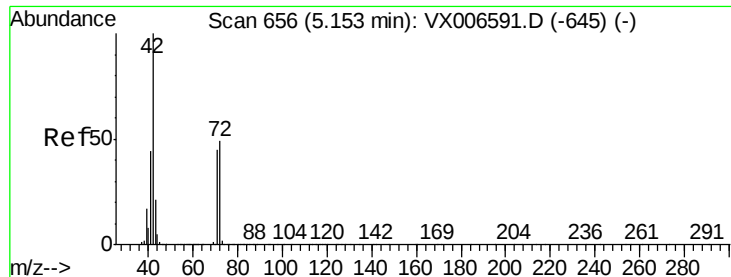


Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

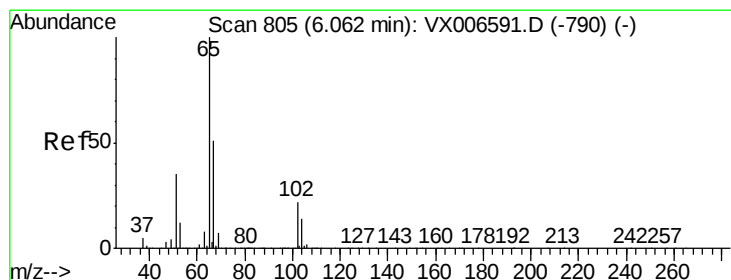
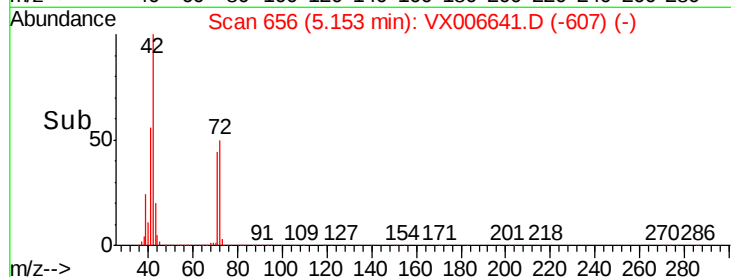
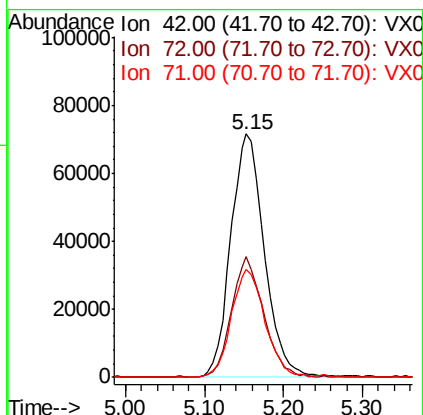
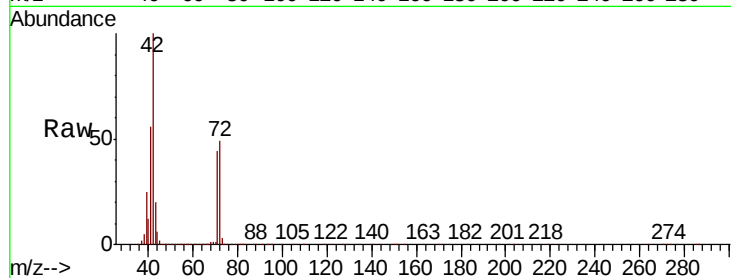




#29
Tetrahydrofuran
Concen: 74.340 ug/l
RT: 5.15 min Scan# 656
Delta R.T. -0.00 min
Lab File: VX006641.D
Acq: 19 Dec 2018 17:11

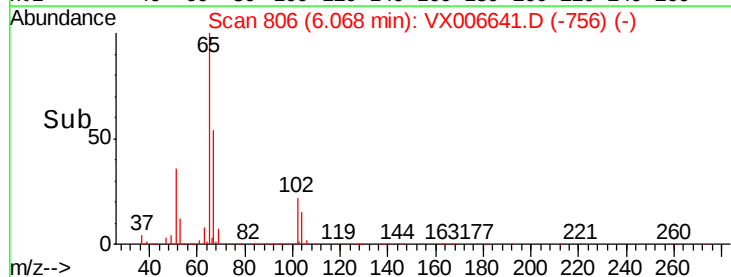
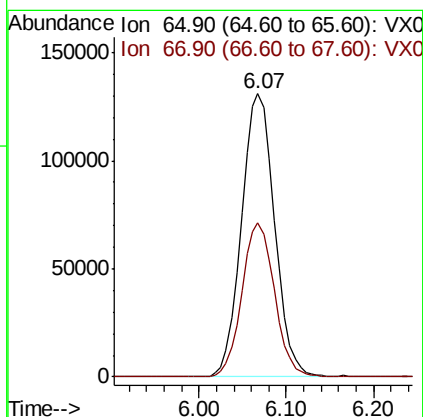
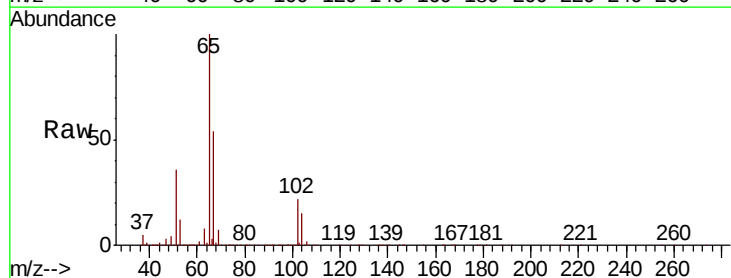
Instrument :
MSVOA_X
ClientSampled :

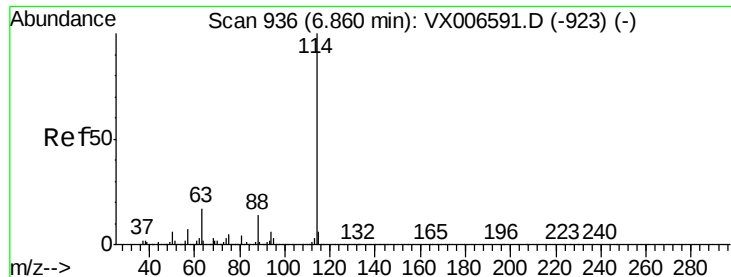
Tot Ion	Ratio	Lower	Upper
42	100		
72	47.6	38.9	58.3
71	44.4	36.2	54.4



#33
1,2-Dichloroethane-d4
Concen: 51.448 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.01 min
Lab File: VX006641.D
Acq: 19 Dec 2018 17:11

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.4	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: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampled :

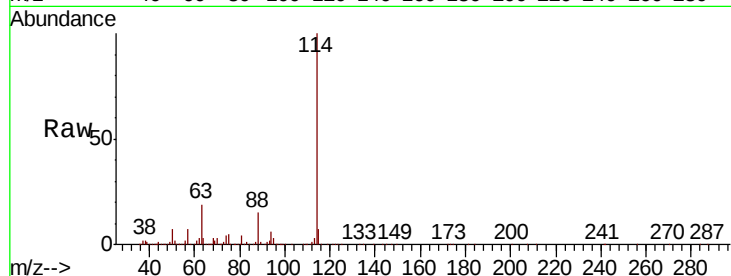
Tot Ion:114 Resp: 990579

Ion Ratio Lower Upper

114 100

63 18.5 0.0 34.8

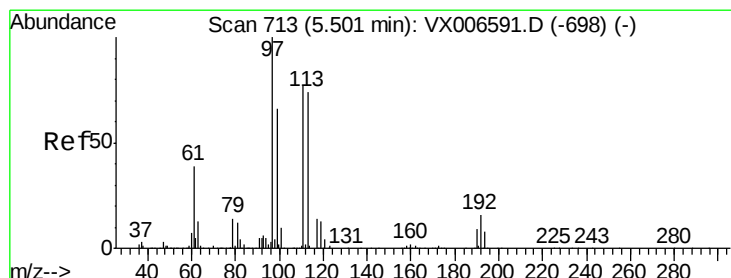
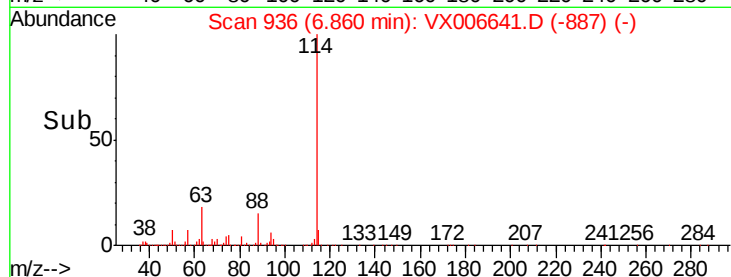
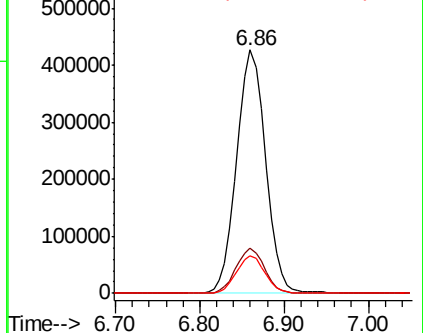
88 15.3 0.0 28.8



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: 46.956 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

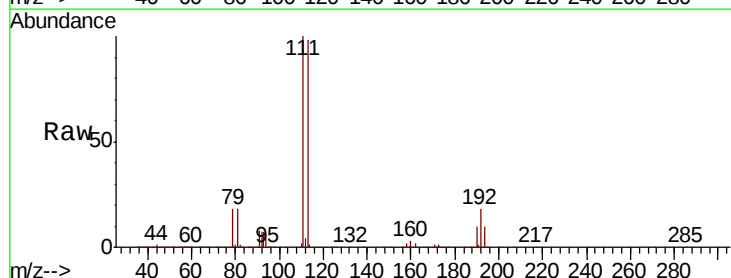
Tgt Ion:113 Resp: 294142

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

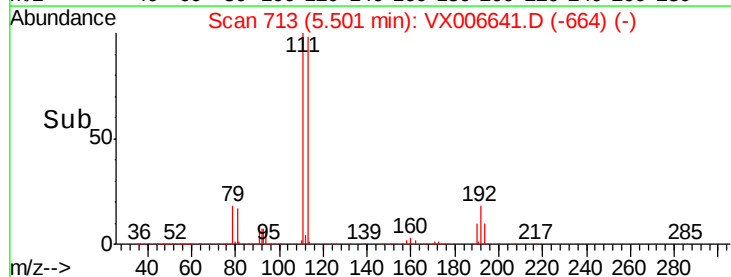
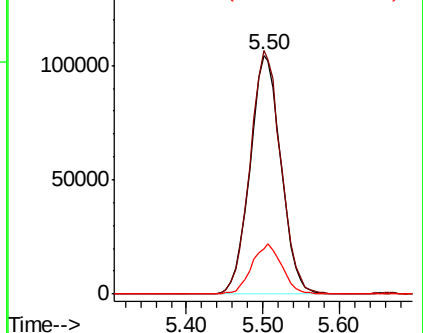
192 20.7 16.7 25.1

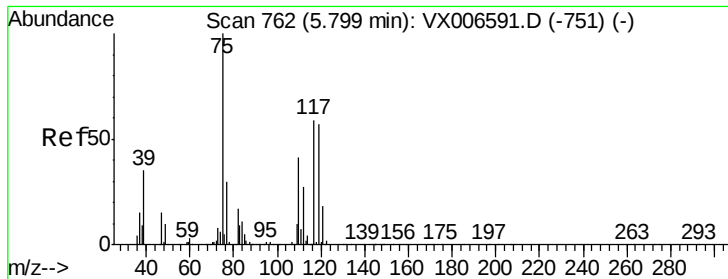


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.117 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

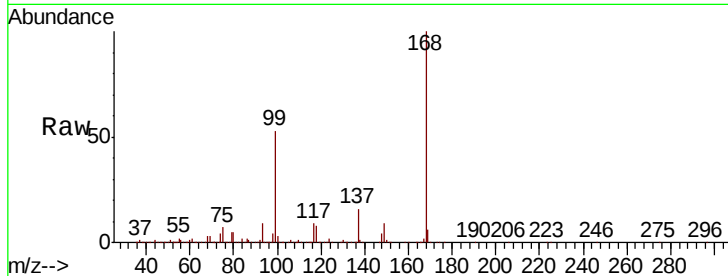
Tot Ion: 75 Resp: 41980

Ion Ratio Lower Upper

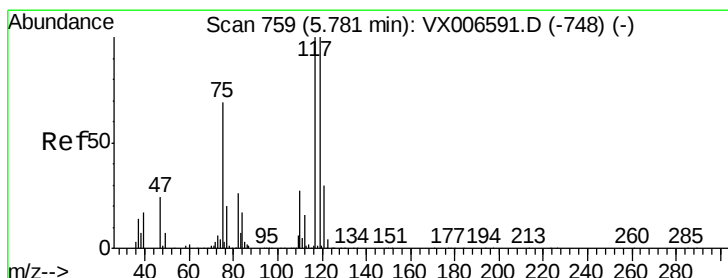
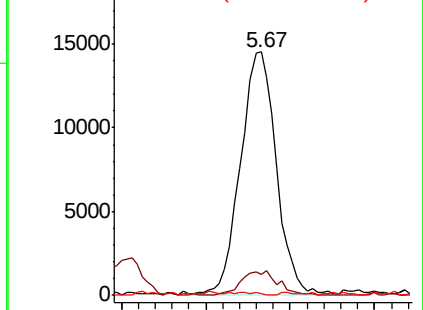
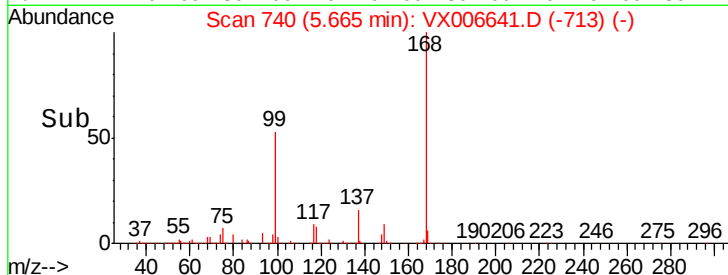
75 100

110 10.3 20.2 60.5#

77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX006641.D (-713) (-)



#38

Carbon Tetrachloride

Concen: 7.496 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

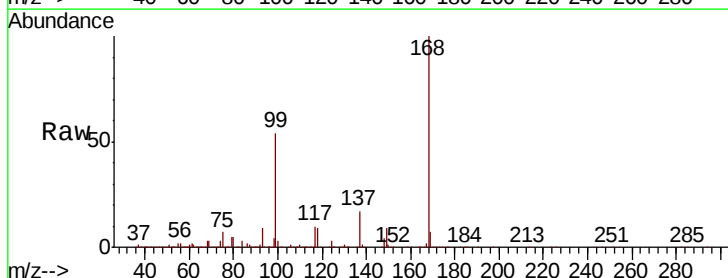
Tgt Ion: 117 Resp: 59767

Ion Ratio Lower Upper

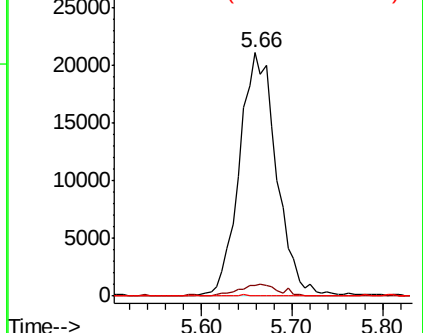
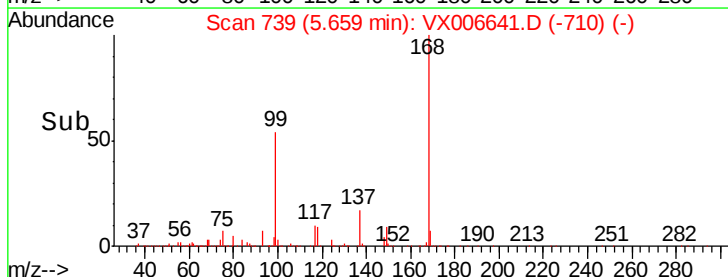
117 100

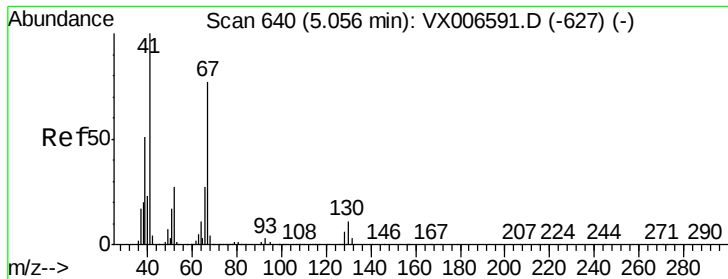
119 4.3 79.4 119.2#

121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): VX006641.D (-710) (-)

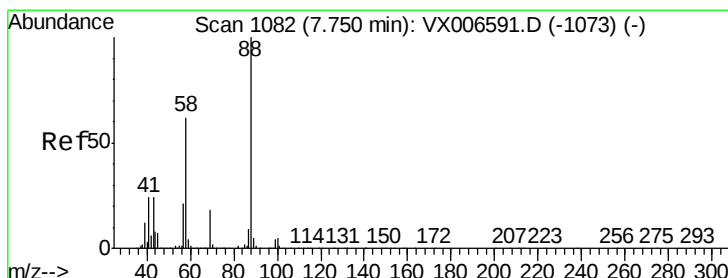
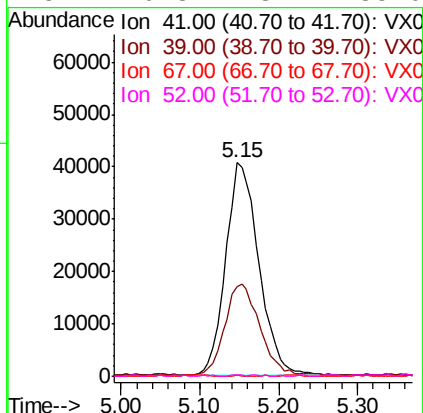
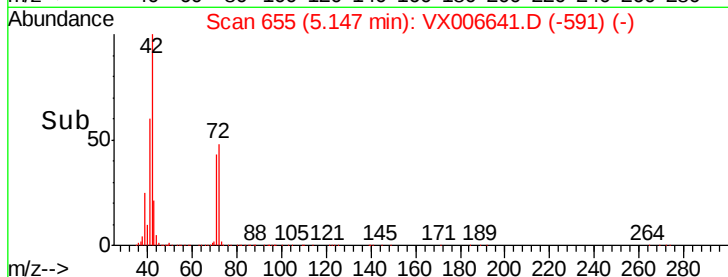
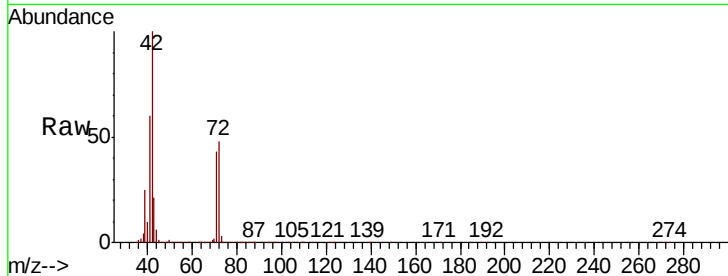




#41
Methacrylonitrile
Concen: 26.371 ug/l
RT: 5.15 min Scan# 655
Delta R.T. 0.09 min
Lab File: VX006641.D
Acq: 19 Dec 2018 17:11

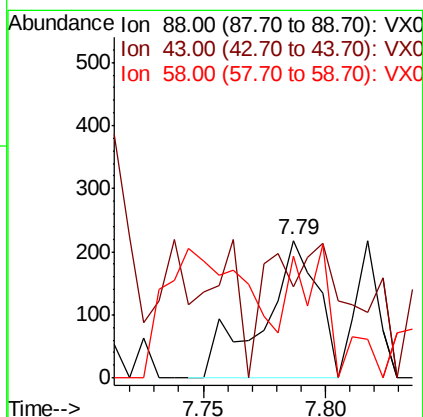
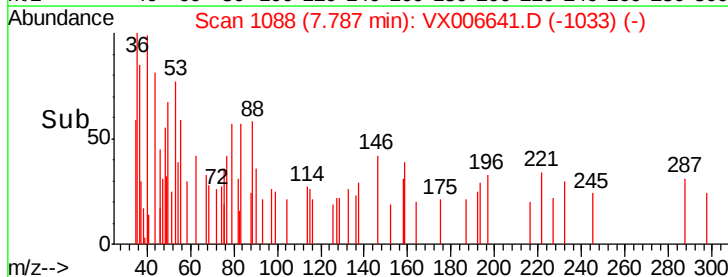
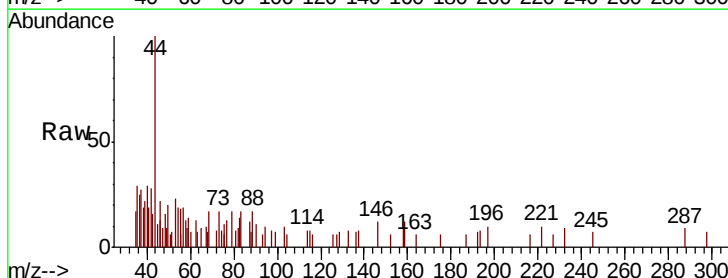
Instrument :
MSVOA_X
ClientSampleId :

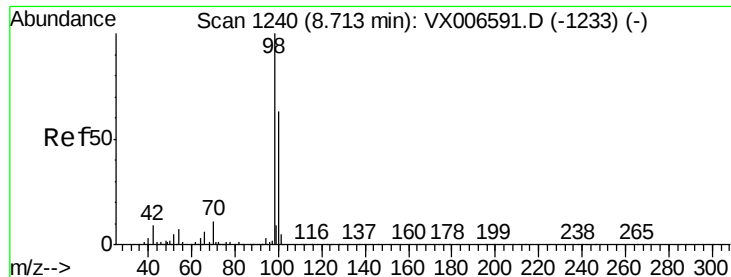
Tot Ion	Ratio	Lower	Upper
41	100		
39	44.2	42.8	64.2
67	0.2	62.1	93.1#
52	0.3	23.4	35.0#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.79 min Scan# 1088
Delta R.T. 0.04 min
Lab File: VX006641.D
Acq: 19 Dec 2018 17:11

Tgt Ion	Ratio	Lower	Upper
88	100		
43	56.3	22.2	33.4#
58	0.0	51.0	76.4#





#50

Toluene-d8

Concen: 49.644 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

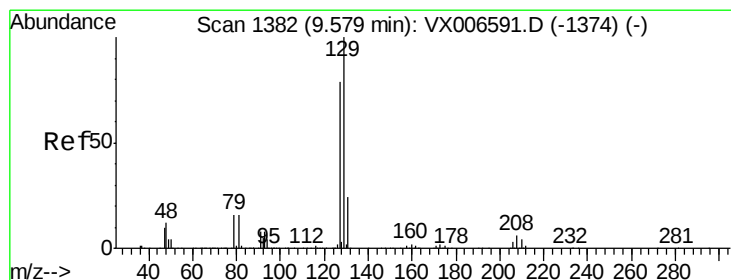
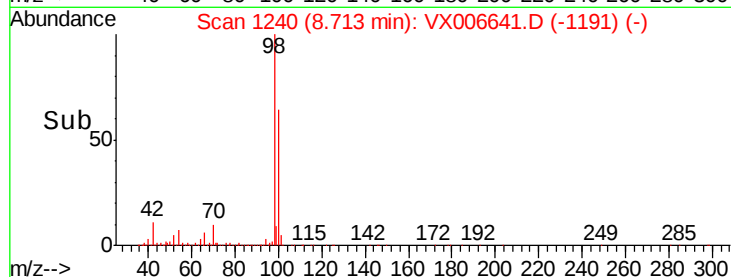
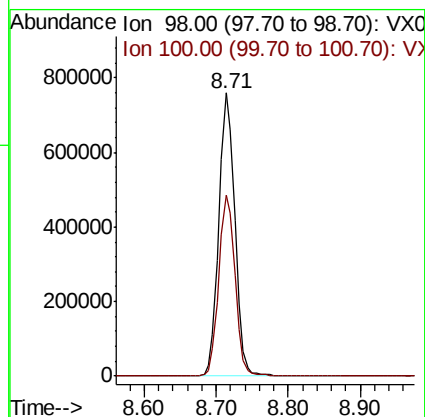
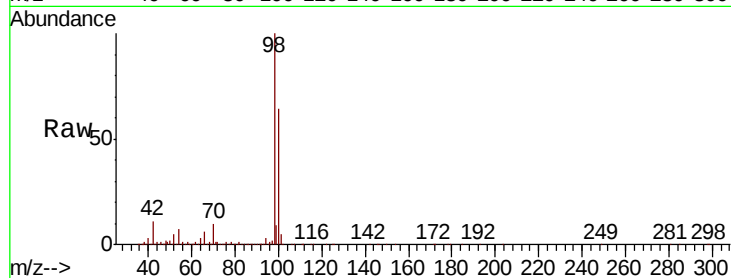
ClientSampleId :

Tot Ion: 98 Resp: 1172414

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0



#60

Dibromochloromethane

Concen: 2.335 ug/l

RT: 9.62 min Scan# 1389

Delta R.T. 0.04 min

Lab File: VX006641.D

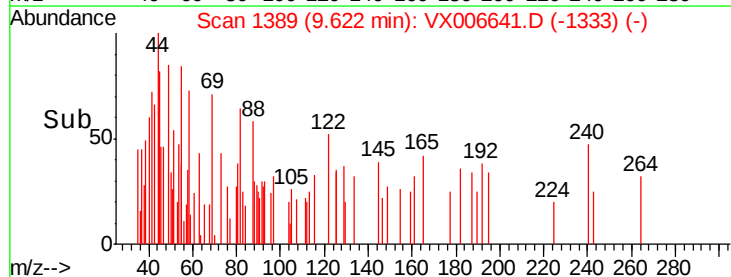
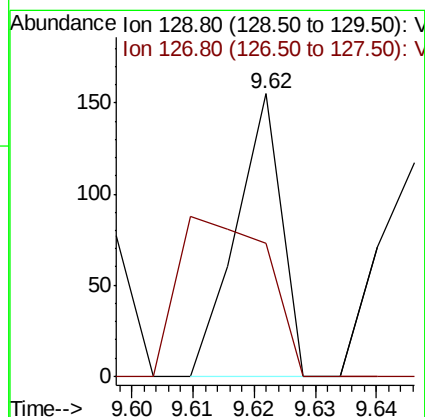
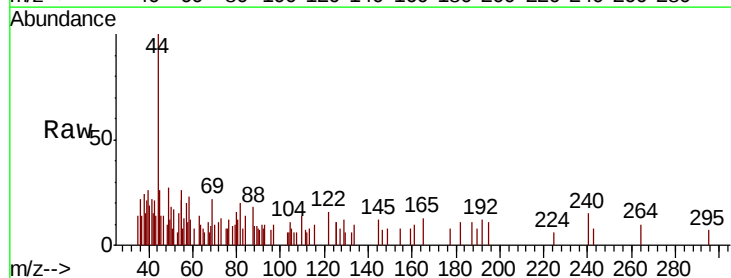
Acq: 19 Dec 2018 17:11

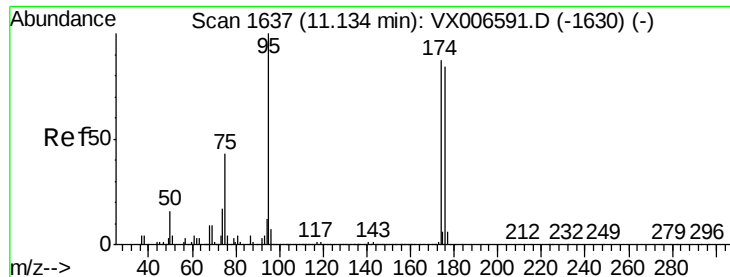
Tgt Ion:129 Resp: 79

Ion Ratio Lower Upper

129 100

127 112.7 39.3 117.8

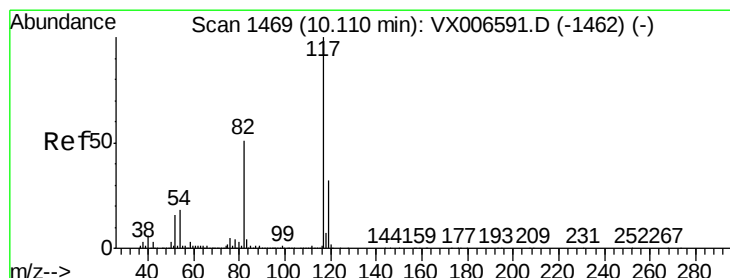
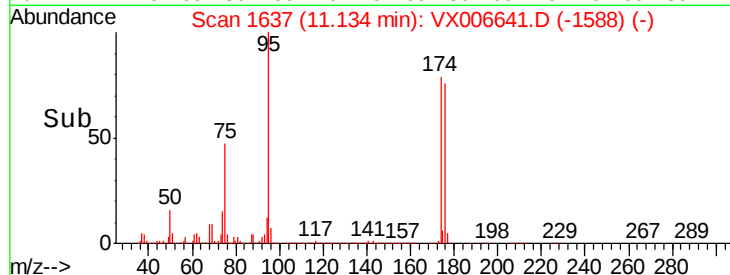
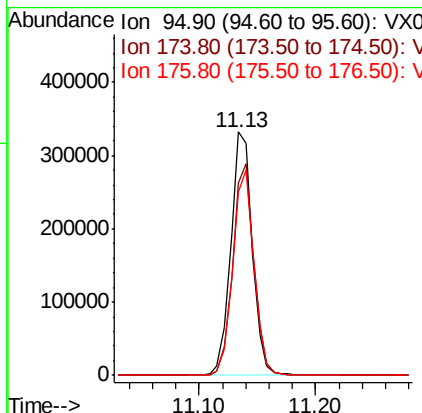
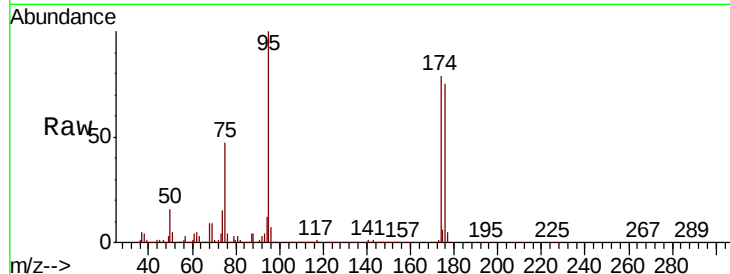




#62
4-Bromofluorobenzene
Concen: 49.351 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX006641.D
Acq: 19 Dec 2018 17:11

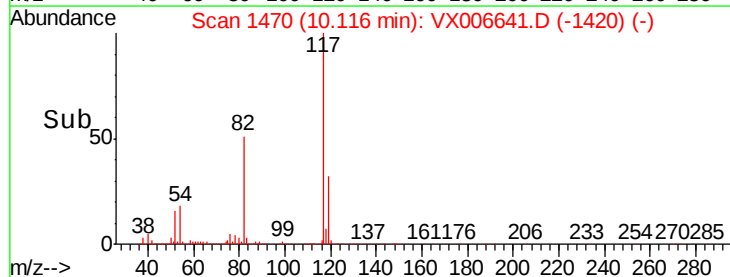
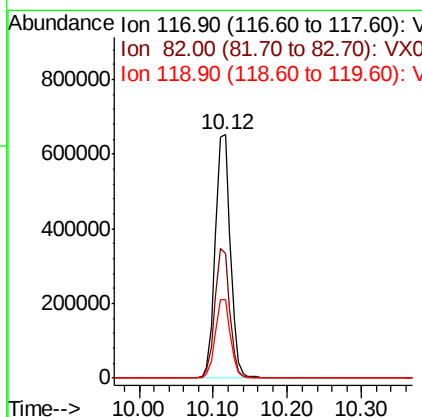
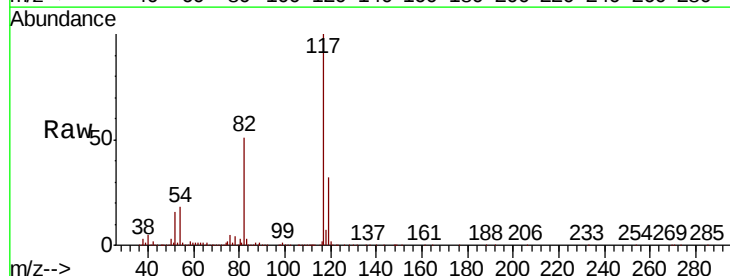
Instrument :
MSVOA_X
ClientSampleId :

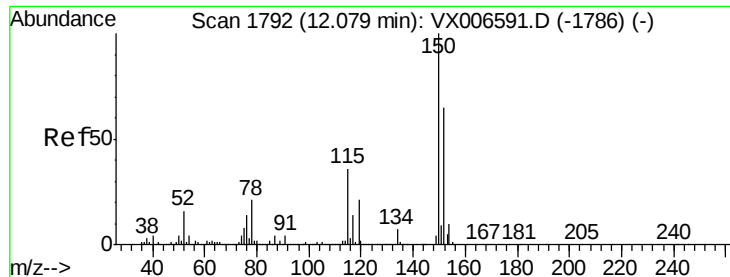
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.7	0.0	182.2
176	83.4	0.0	178.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006641.D
Acq: 19 Dec 2018 17:11

Tgt Ion	Ratio	Lower	Upper
117	100		
82	51.0	41.0	61.6
119	32.4	25.4	38.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

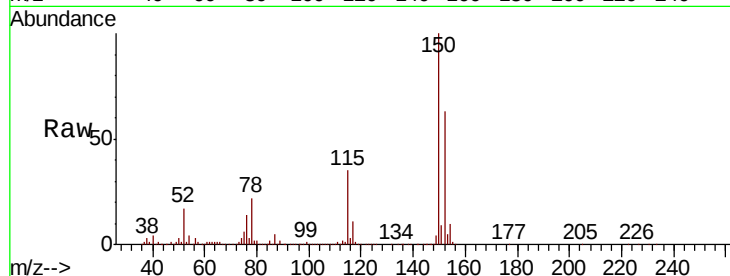
Tot Ion:152 Resp: 426880

Ion Ratio Lower Upper

152 100

115 57.5 39.1 117.2

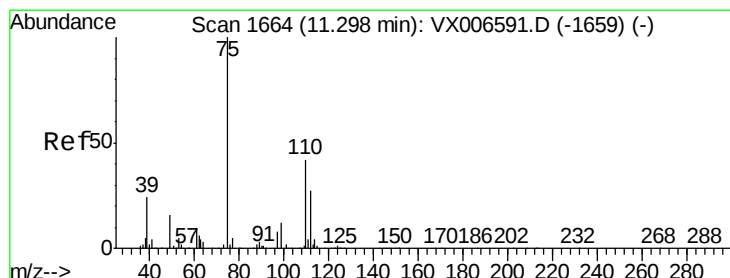
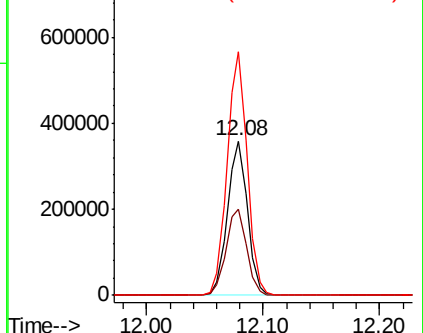
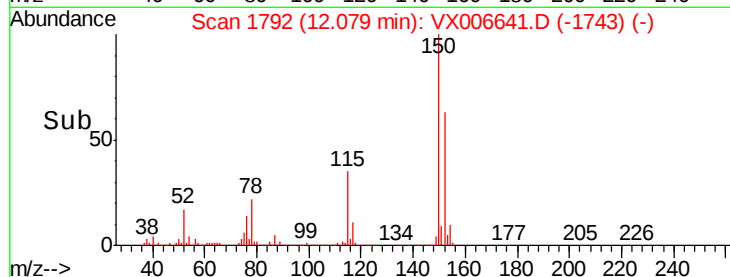
150 158.3 0.0 344.8



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



#76

1,2,3-Trichloropropane

Concen: 25.350 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006641.D

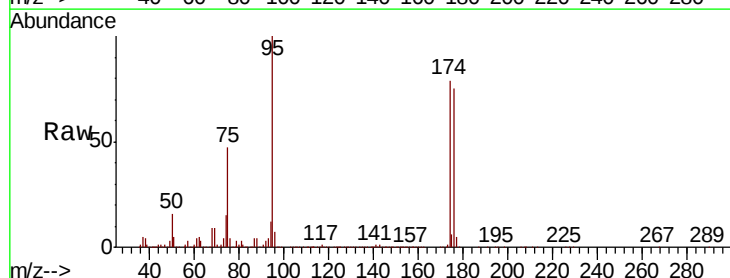
Acq: 19 Dec 2018 17:11

Tgt Ion: 75 Resp: 201110

Ion Ratio Lower Upper

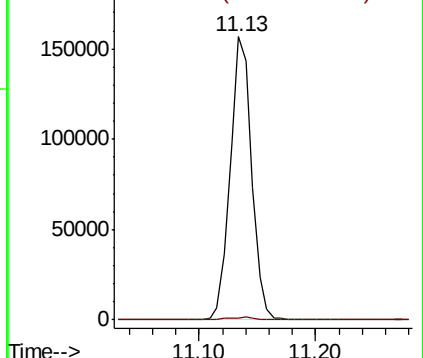
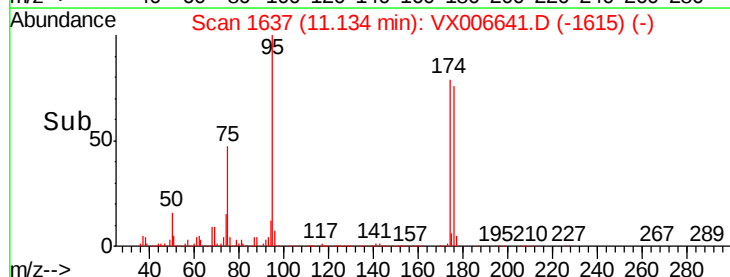
75 100

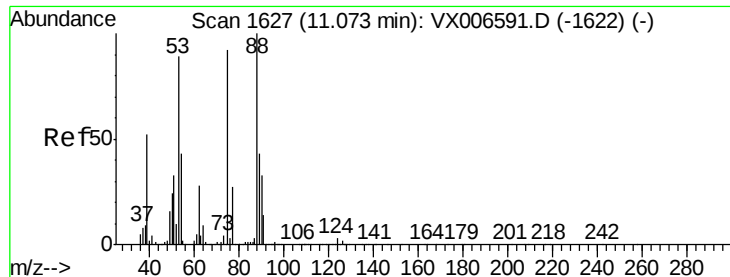
77 1.3 18.5 55.5#



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: 74.850 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006641.D

Acq: 19 Dec 2018 17:11

Instrument :

MSVOA_X

ClientSampleId :

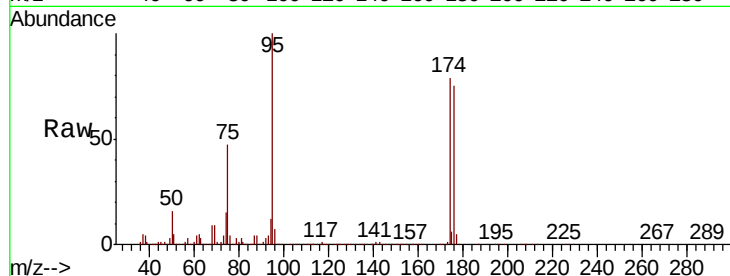
Tot Ion: 75 Resp: 201110

Ion Ratio Lower Upper

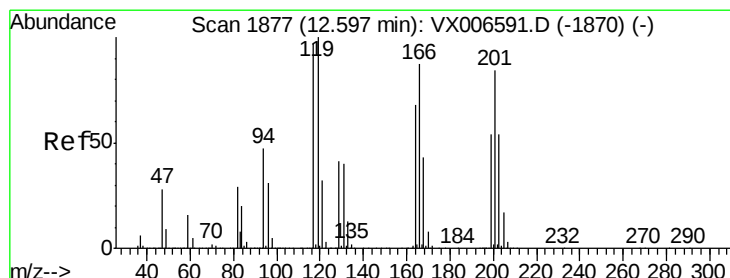
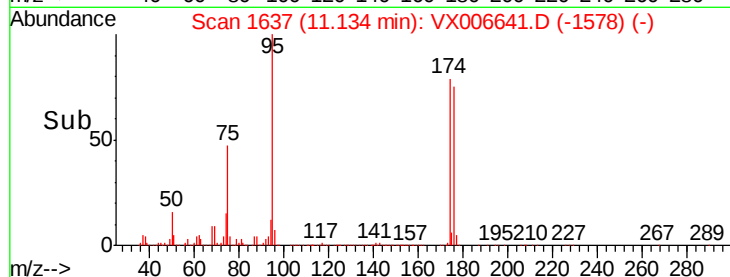
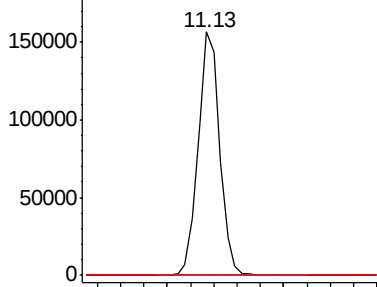
75 100

53 0.2 79.7 119.5#

89 0.1 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



#90

Hexachloroethane

Concen: 3.303 ug/l

RT: 12.57 min Scan# 1873

Delta R.T. -0.02 min

Lab File: VX006641.D

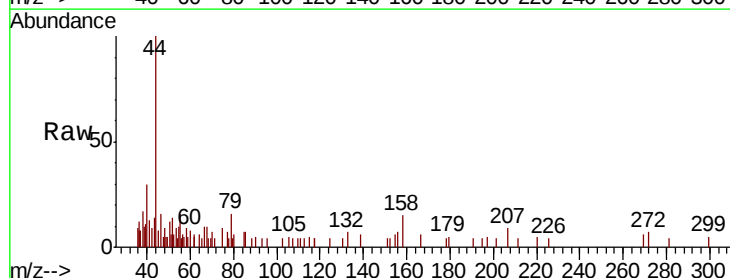
Acq: 19 Dec 2018 17:11

Tgt Ion: 117 Resp: 42

Ion Ratio Lower Upper

117 100

201 126.2 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V

