

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX012919\
 Data File : VX007294.D
 Acq On : 29 Jan 2019 17:55
 Operator : JC/SP
 Sample : PB116677ZHE#05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 30 00:46:13 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	527763	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	830911	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	796919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	379119	50.00	ug/l	0.00

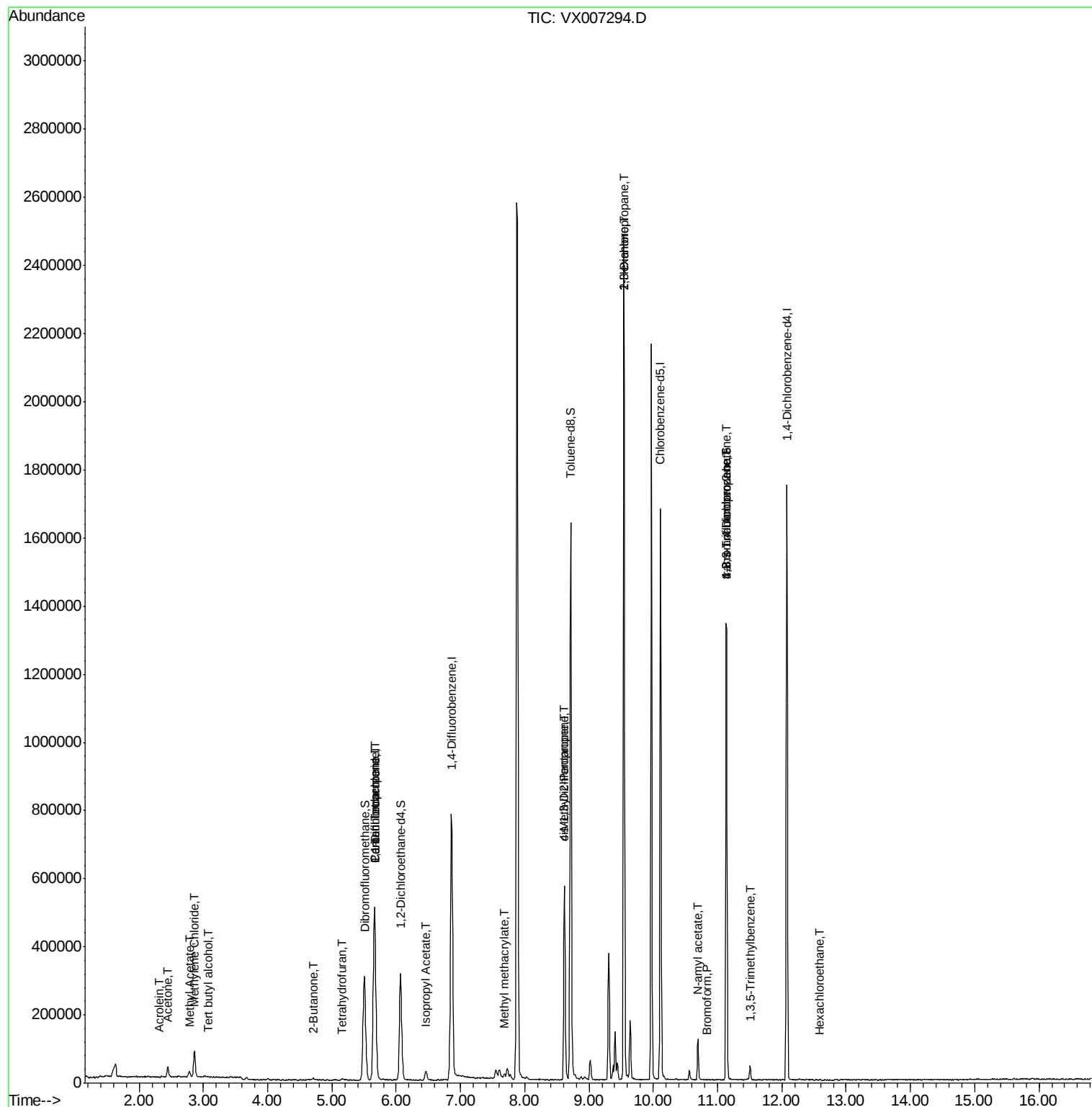
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	289857	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
35) Dibromofluoromethane	5.51	113	261486	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
50) Toluene-d8	8.71	98	1009020	51.81	ug/l	0.00
Spiked Amount			Recovery	=	103.62%	
62) 4-Bromofluorobenzene	11.13	95	356491	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	

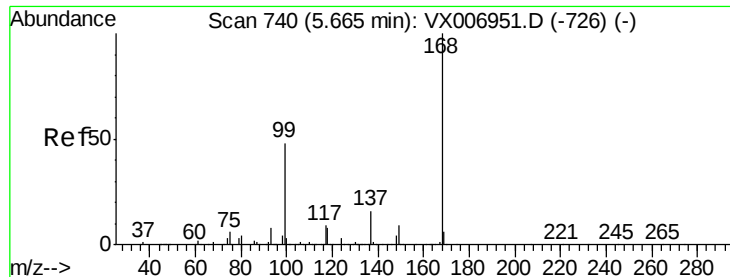
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.08	59	862	0.663	ug/l	98
13) Acrolein	2.31	56	730	4.369	ug/l #	51
16) Acetone	2.45	43	33175	12.167	ug/l	97
18) Methyl Acetate	2.78	43	23747	3.007	ug/l	99
20) Methylene Chloride	2.86	84	37249	6.692	ug/l	94
25) 2-Butanone	4.70	43	7838	2.009	ug/l	92
29) Tetrahydrofuran	5.17	42	2661	1.049	ug/l #	58
36) 1,1-Dichloropropene	5.66	75	34304	4.749	ug/l #	39
38) Carbon Tetrachloride	5.66	117	49032	6.746	ug/l #	16
43) Isopropyl Acetate	6.46	43	33936	2.778	ug/l	97
48) Methyl methacrylate	7.68	41	18015	2.872	ug/l #	12
49) 1,4-Dioxane	7.76	88	122	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	183862	23.419	ug/l #	49
54) cis-1,3-Dichloropropene	8.62	75	89294	10.999	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	21411	2.305	ug/l #	47
59) 2-Hexanone	9.54	43	267640	44.734	ug/l #	50
71) Bromoform	10.83	173	108	4.746	ug/l #	28
74) N-amyl acetate	10.69	43	25818	2.399	ug/l #	54
76) 1,2,3-Trichloropropane	11.13	75	168937	21.989	ug/l #	41
80) 1,3,5-Trimethylbenzene	11.51	105	17711	0.793	ug/l	98
81) trans-1,4-Dichloro-2-buten	11.13	75	168937	65.123	ug/l #	10
90) Hexachloroethane	12.58	117	108	2.935	ug/l	56

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

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Misc : 5.0mL/MSVOA X/WATER
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Quant Time: Jan 30 00:12:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007294.D

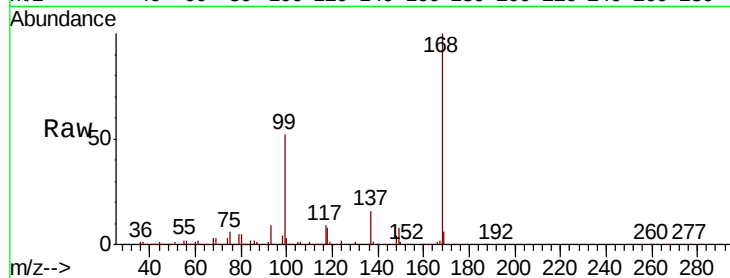
Acq: 29 Jan 2019 17:55

Tot Ion:168 Resp: 527763

Ion Ratio Lower Upper

168 100

99 51.8 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

200000

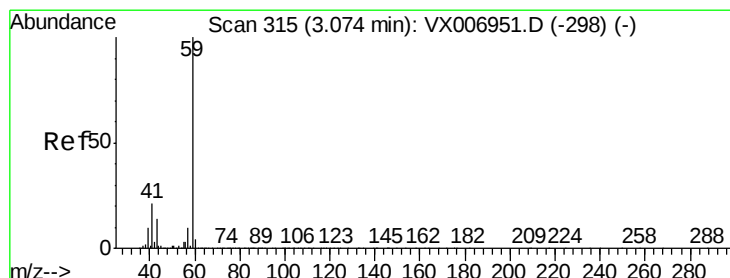
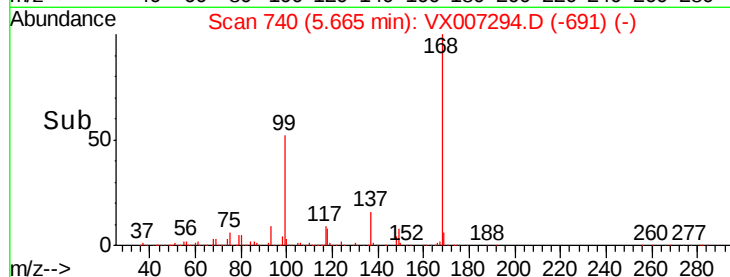
150000

100000

50000

0

Time--> 5.50 5.60 5.70 5.80



#11

Tert butyl alcohol

Concen: 0.663 ug/l

RT: 3.08 min Scan# 316

Delta R.T. 0.01 min

Lab File: VX007294.D

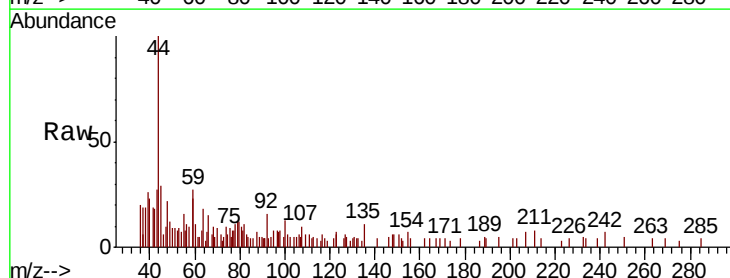
Acq: 29 Jan 2019 17:55

Tgt Ion: 59 Resp: 862

Ion Ratio Lower Upper

59 100

57 11.5 8.5 12.7



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

3.08

800

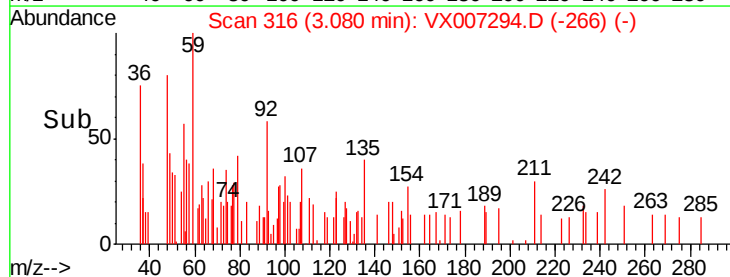
600

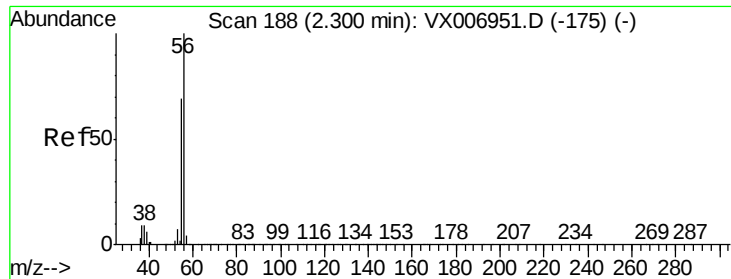
400

200

0

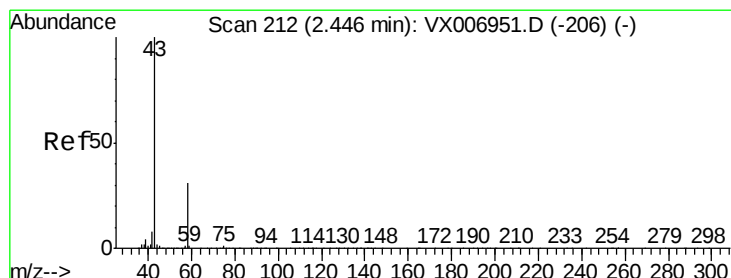
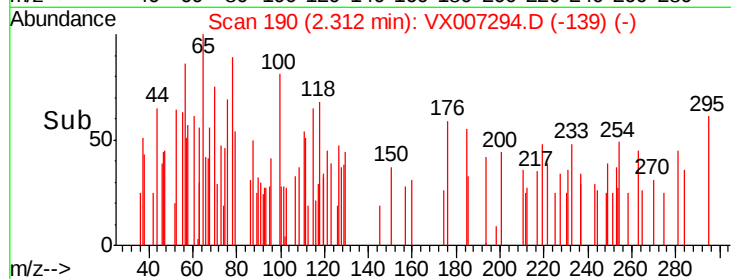
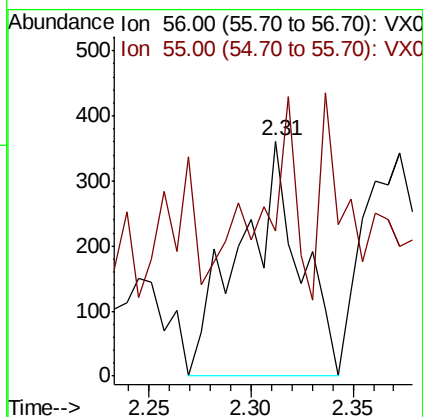
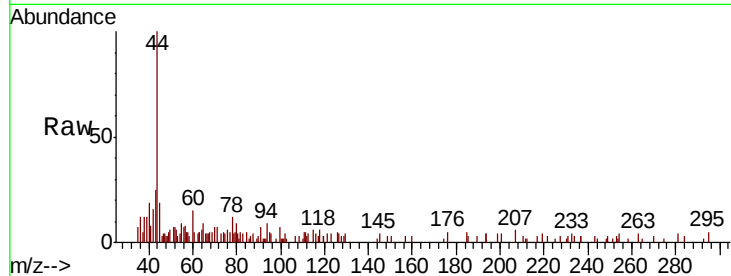
Time--> 3.06 3.08 3.10 3.12





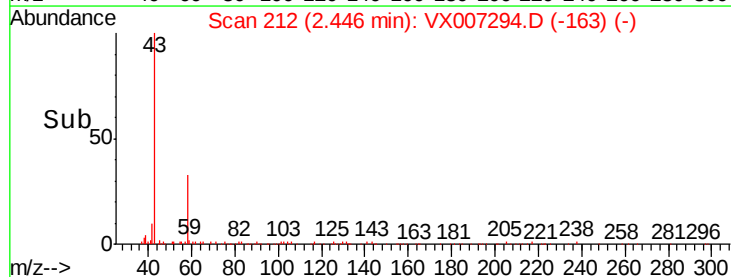
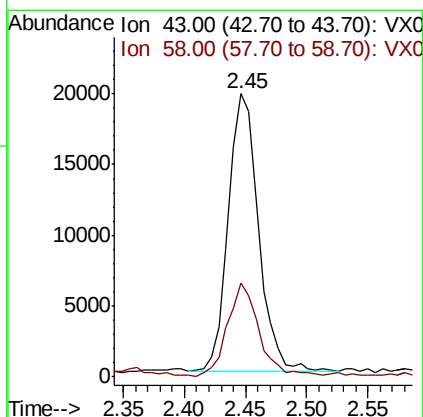
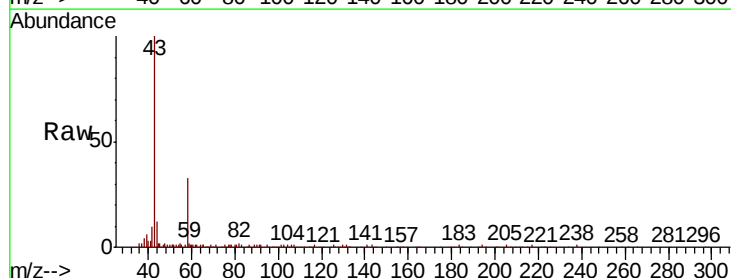
#13
Acrolein
Concen: 4.369 ug/l
RT: 2.31 min Scan# 190
Delta R.T. 0.01 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

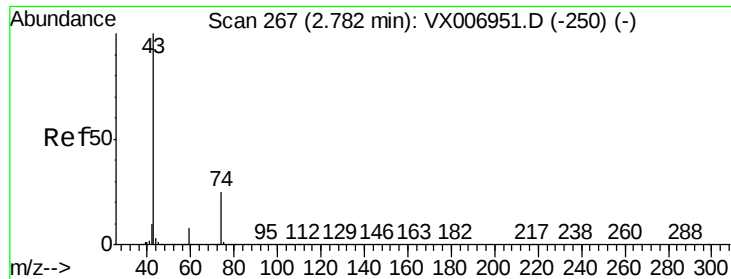
Tot Ion: 56 Resp: 730
Ion Ratio Lower Upper
56 100
55 31.5 58.2 87.4#



#16
Acetone
Concen: 12.167 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

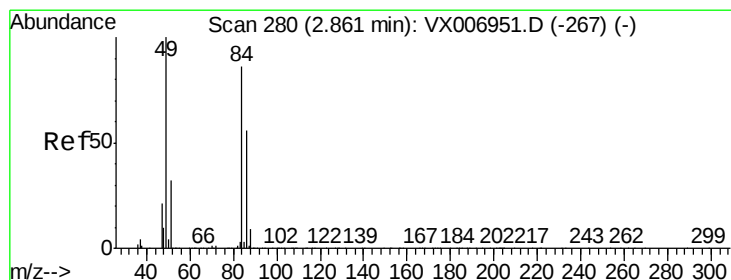
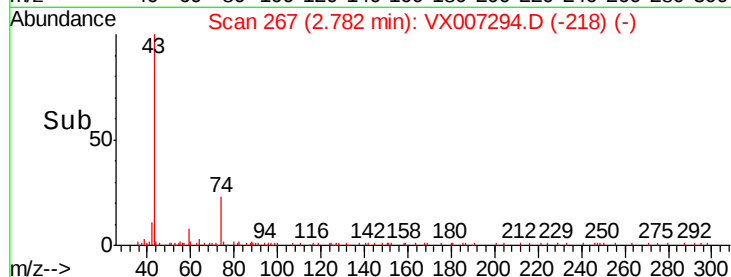
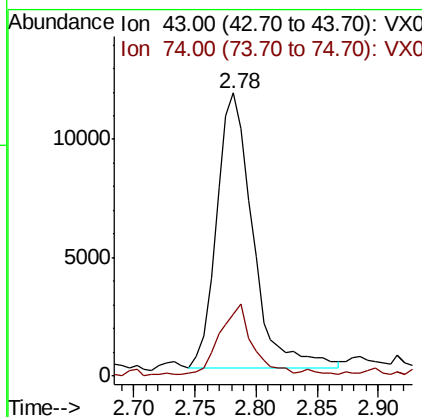
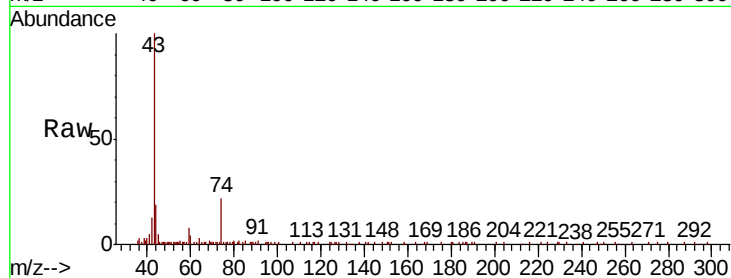
Tgt Ion: 43 Resp: 33175
Ion Ratio Lower Upper
43 100
58 33.2 25.0 37.6





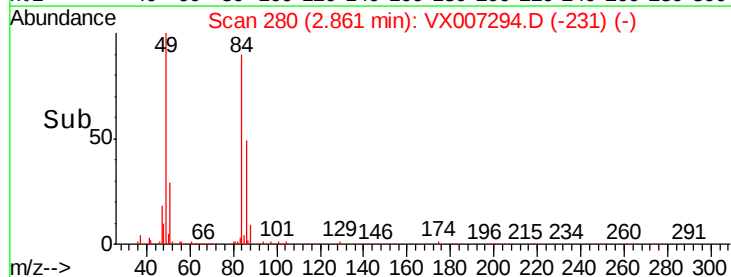
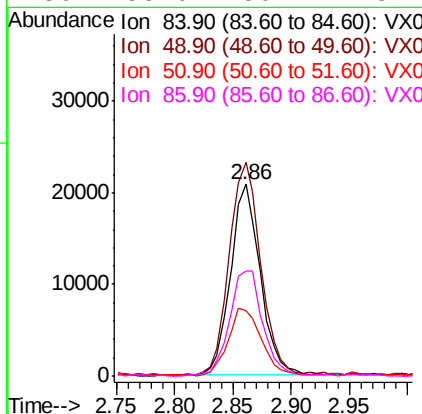
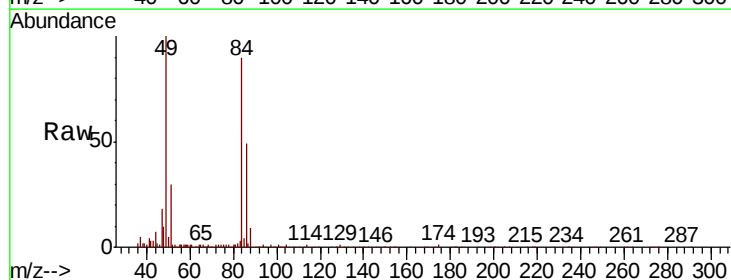
#18
Methyl Acetate
Concen: 3.007 ug/l
RT: 2.78 min Scan# 267
Delta R.T. -0.00 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

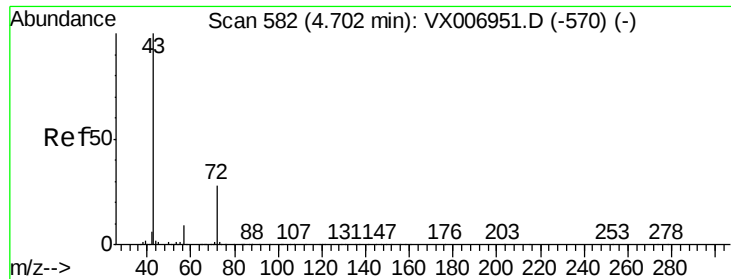
Tot Ion: 43 Resp: 23747
Ion Ratio Lower Upper
43 100
74 23.0 18.6 28.0



#20
Methylene Chloride
Concen: 6.692 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

Tgt Ion: 84 Resp: 37249
Ion Ratio Lower Upper
84 100
49 111.0 91.8 137.6
51 32.8 28.5 42.7
86 55.0 50.2 75.2





#25

2-Butanone

Concen: 2.009 ug/l

RT: 4.70 min Scan# 582

Delta R.T. -0.00 min

Lab File: VX007294.D

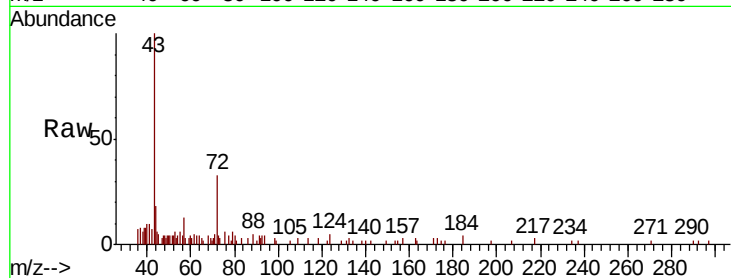
Acq: 29 Jan 2019 17:55

Tot Ion: 43 Resp: 7838

Ion Ratio Lower Upper

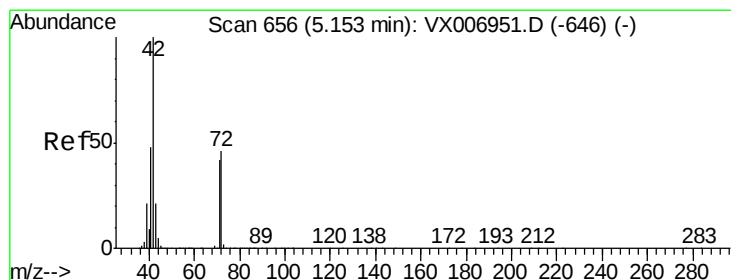
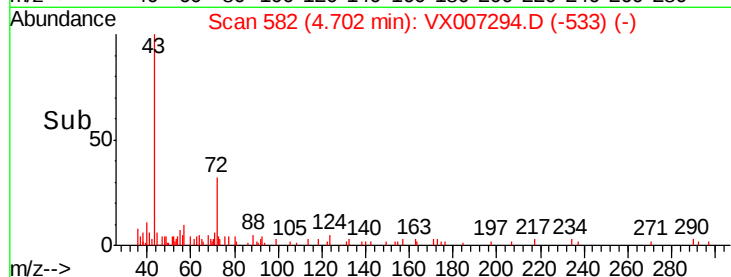
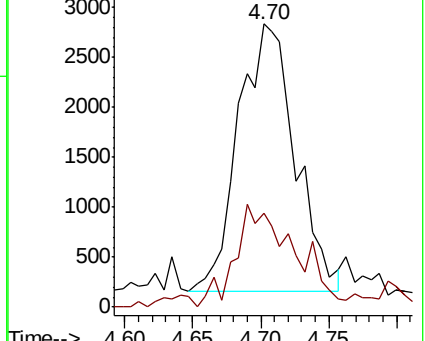
43 100

72 32.4 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 1.049 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

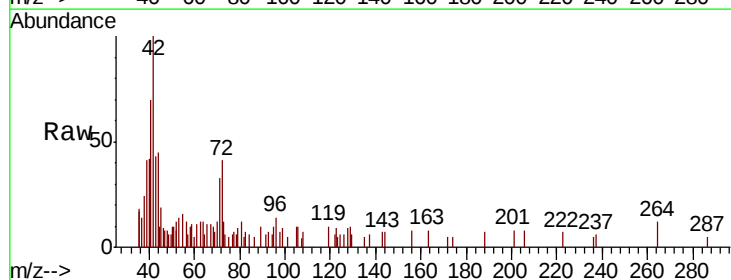
Tgt Ion: 42 Resp: 2661

Ion Ratio Lower Upper

42 100

72 7.4 38.9 58.3#

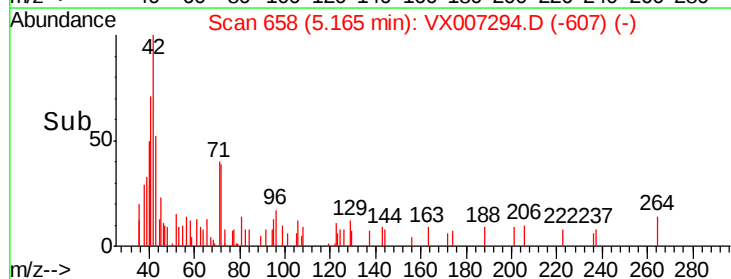
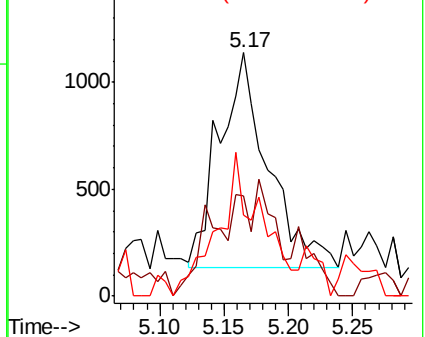
71 59.7 36.2 54.4#

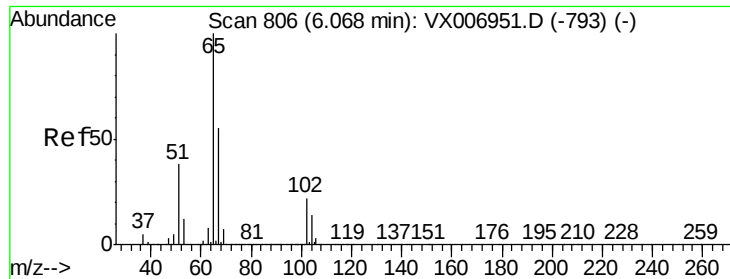


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

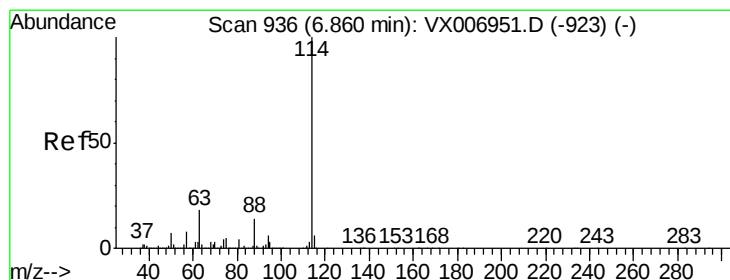
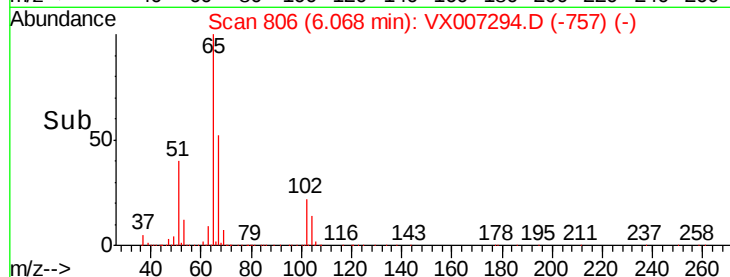
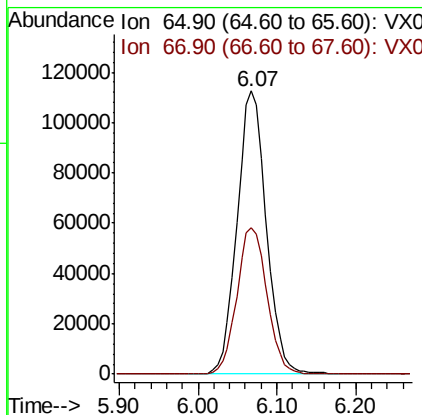
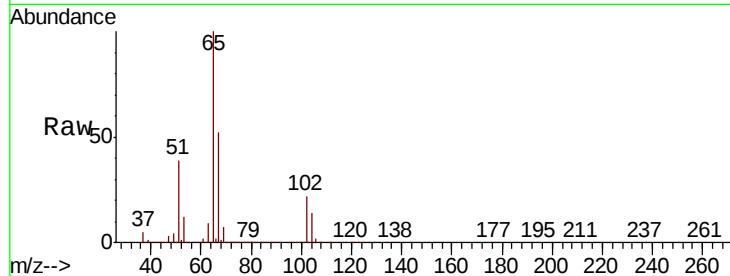
Ion 71.00 (70.70 to 71.70): VX0





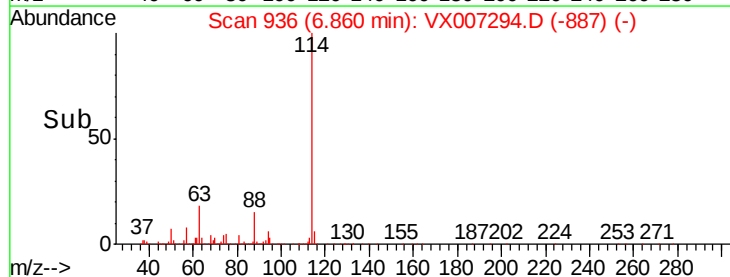
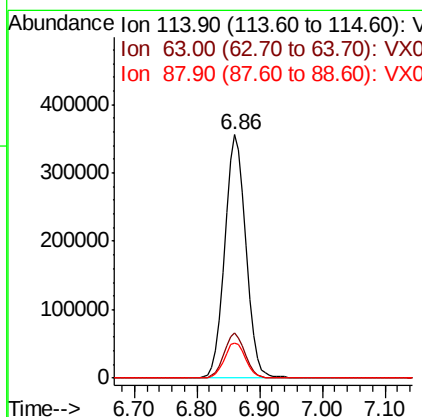
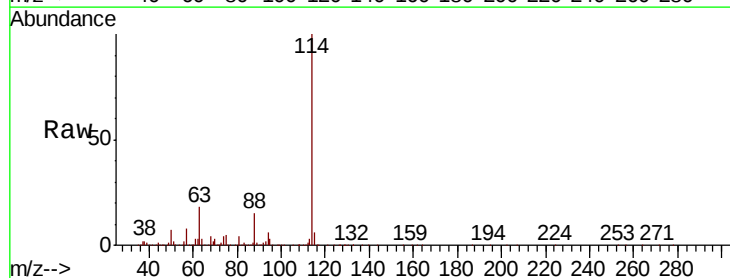
#33
 1,2-Dichloroethane-d4
 Concen: 52.552 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX007294.D
 Acq: 29 Jan 2019 17:55

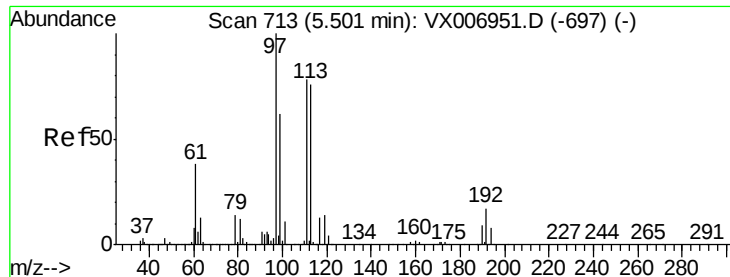
Tot Ion	Ratio	Lower	Upper
65	100		
67	53.5	0.0	105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007294.D
 Acq: 29 Jan 2019 17:55

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.4	0.0	34.8
88	14.6	0.0	28.8





#35

Dibromofluoromethane

Concen: 49.141 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

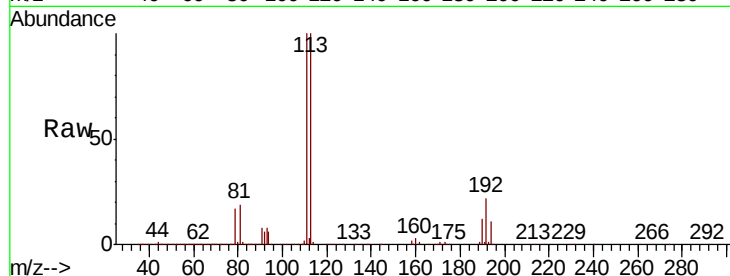
Tot Ion:113 Resp: 261486

Ion Ratio Lower Upper

113 100

111 100.9 81.6 122.4

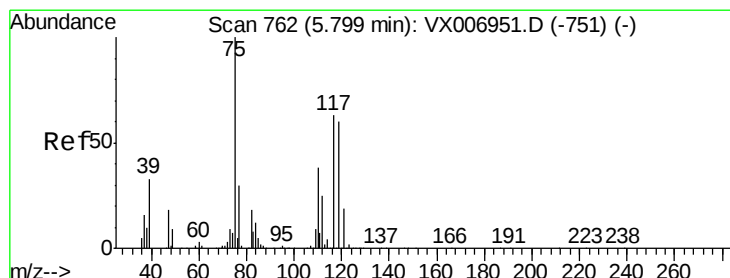
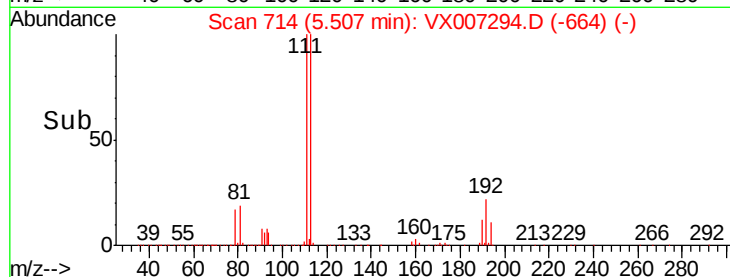
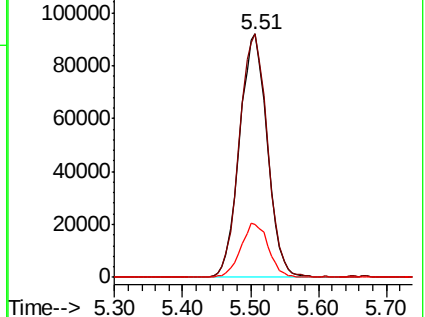
192 22.3 16.7 25.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.749 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

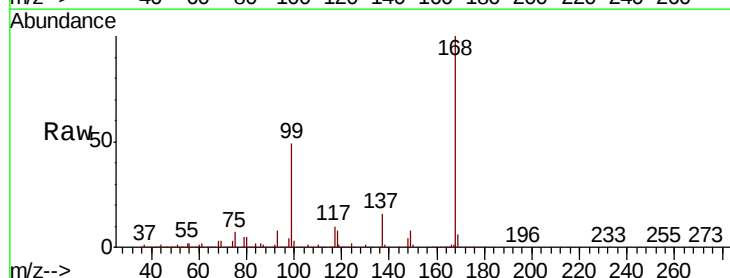
Tgt Ion: 75 Resp: 34304

Ion Ratio Lower Upper

75 100

110 0.0 20.2 60.5#

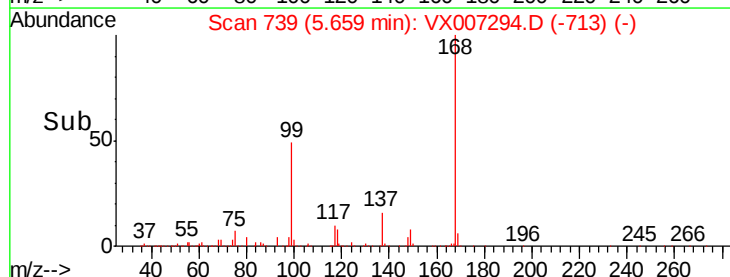
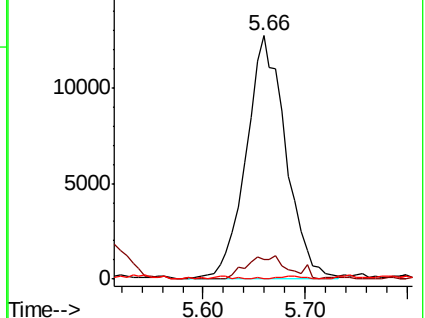
77 0.1 24.8 37.2#

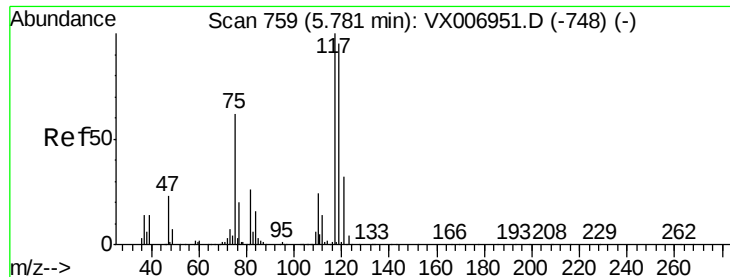


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.746 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

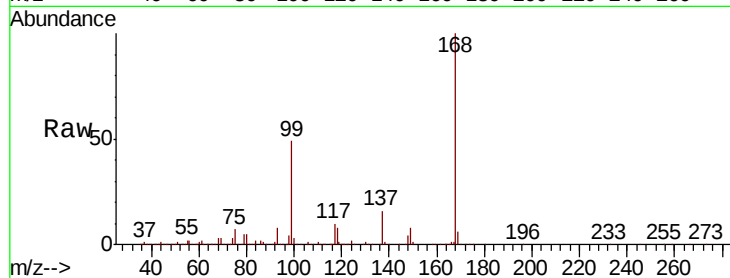
Tot Ion:117 Resp: 49032

Ion Ratio Lower Upper

117 100

119 7.0 79.4 119.2#

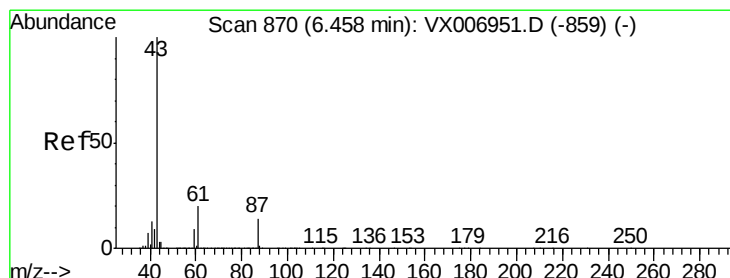
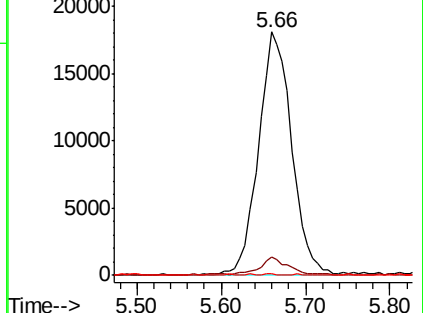
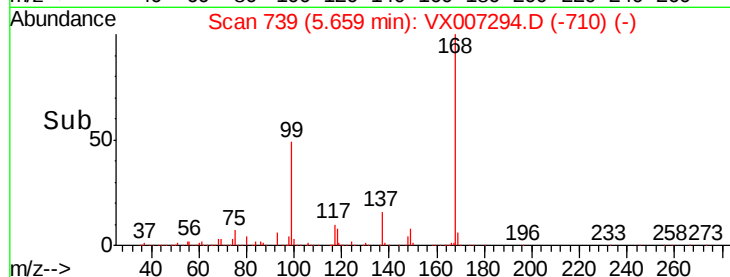
121 0.5 24.0 36.0#



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: 2.778 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

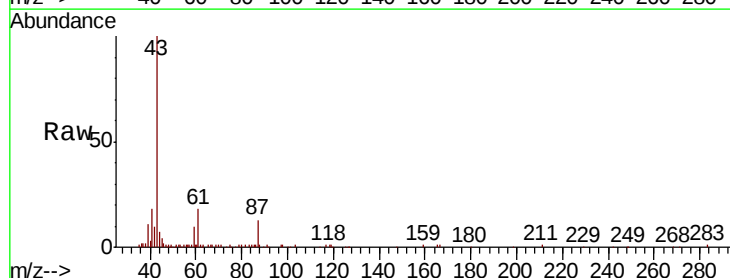
Tgt Ion: 43 Resp: 33936

Ion Ratio Lower Upper

43 100

61 18.9 16.8 25.2

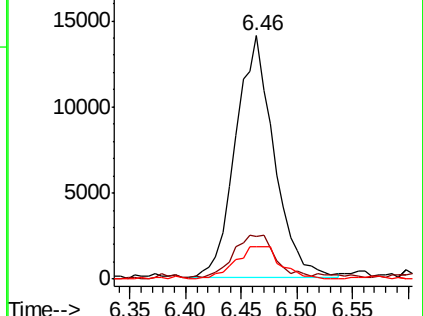
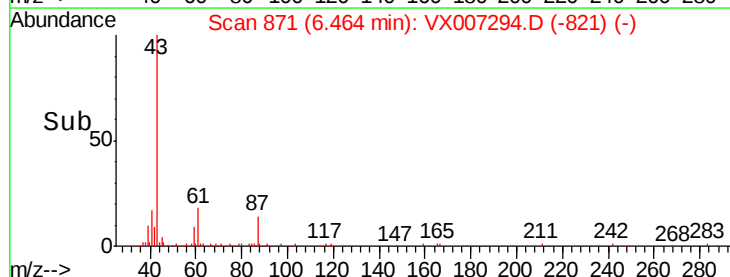
87 16.0 12.4 18.6

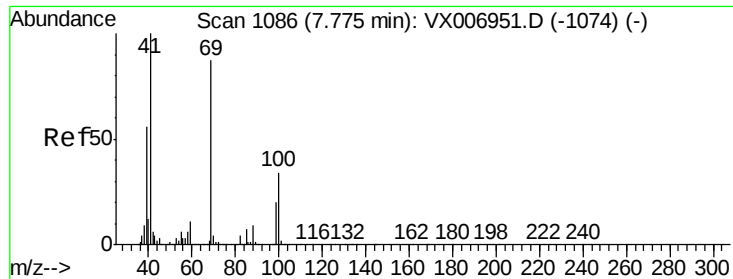


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

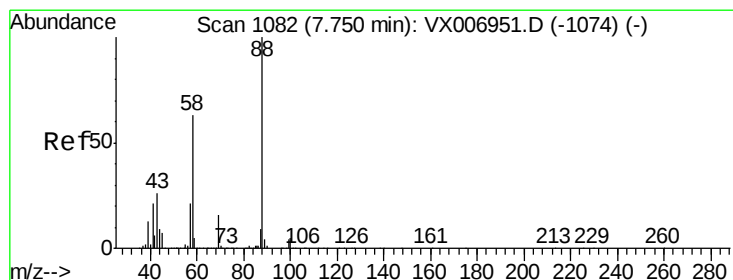
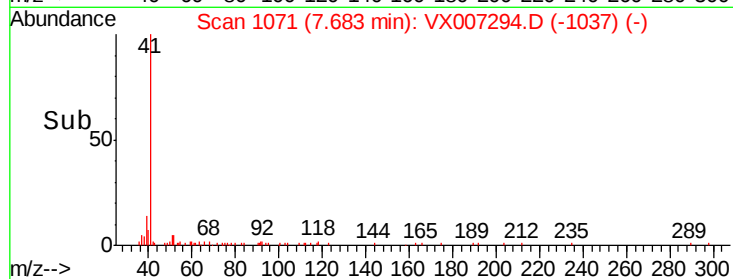
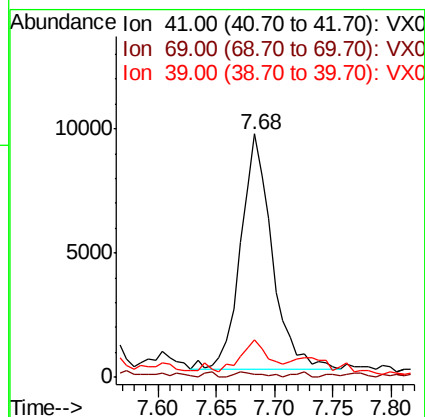
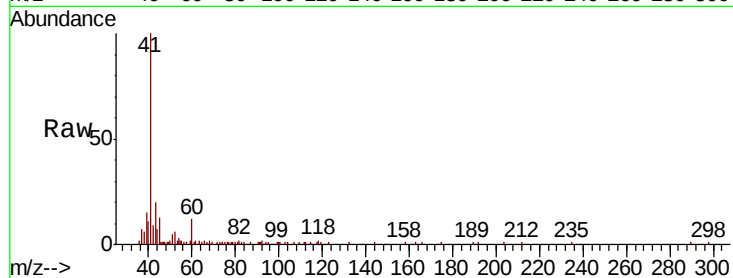
Ion 87.00 (86.70 to 87.70): VX0





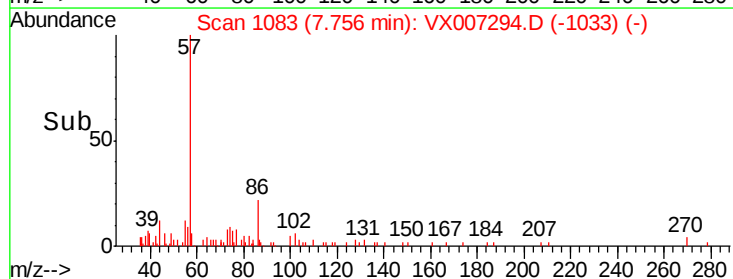
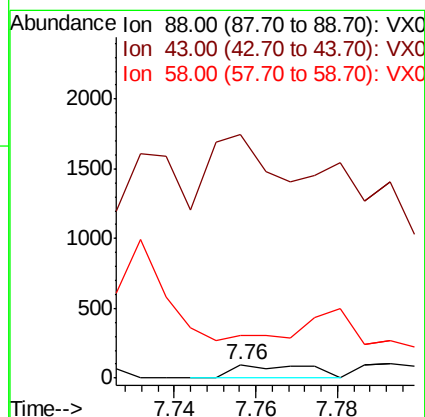
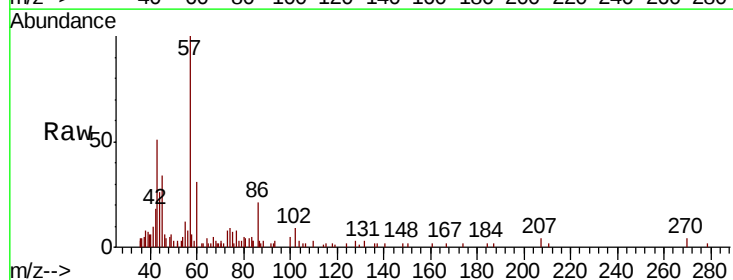
#48
Methvl methacrvlate
Concen: 2.872 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

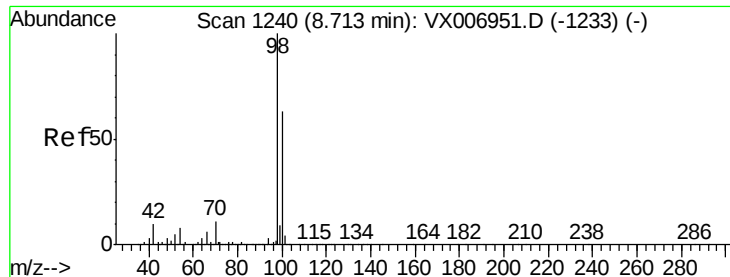
Tot Ion	Ratio	Lower	Upper
41	100		
69	1.8	72.4	108.6#
39	0.0	45.8	68.8#



#49
1,4-Dioxane
Concen: Below Cal
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

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





#50

Toluene-d8

Concen: 51.806 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007294.D

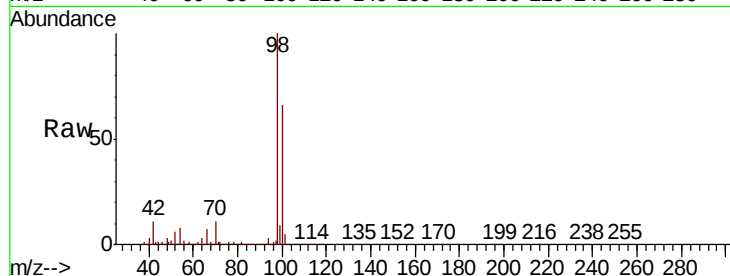
Acq: 29 Jan 2019 17:55

Tot Ion: 98 Resp: 1009020

Ion Ratio Lower Upper

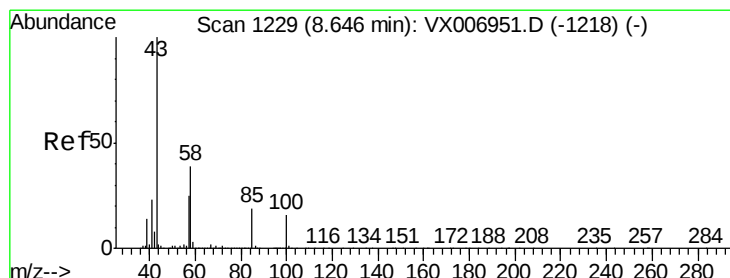
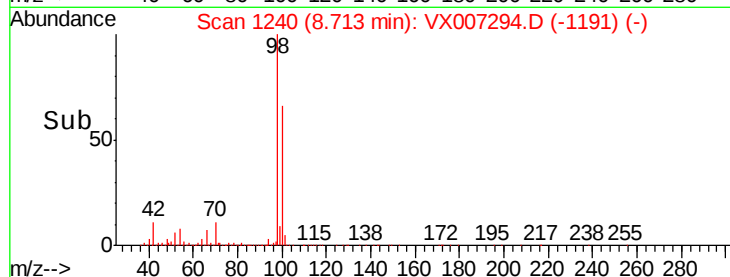
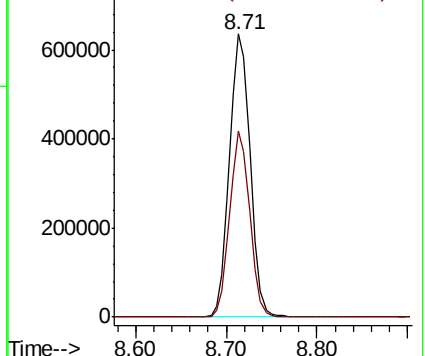
98 100

100 63.6 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 23.419 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007294.D

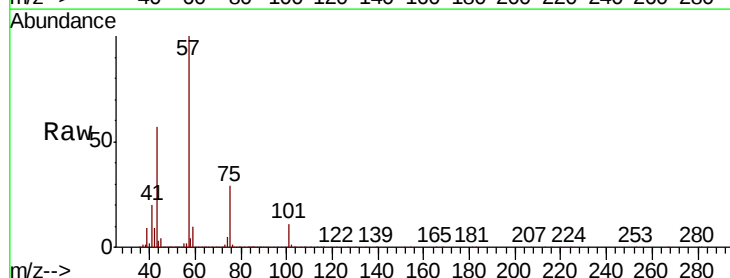
Acq: 29 Jan 2019 17:55

Tgt Ion: 43 Resp: 183862

Ion Ratio Lower Upper

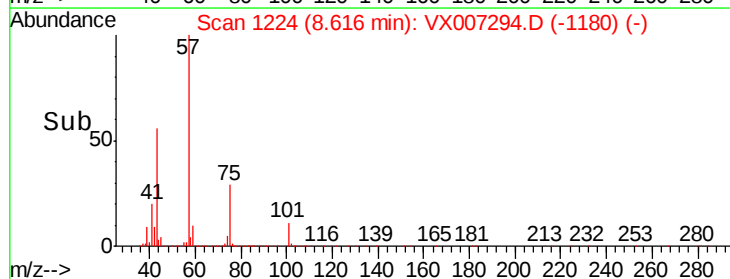
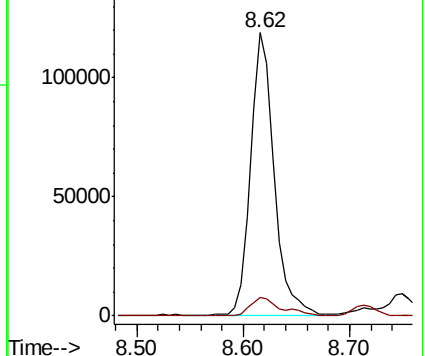
43 100

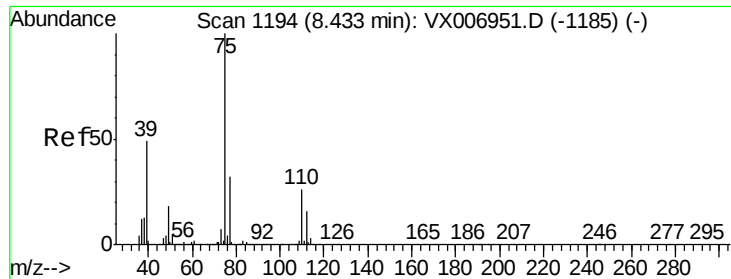
58 8.3 31.8 47.6#



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: 10.999 ug/l

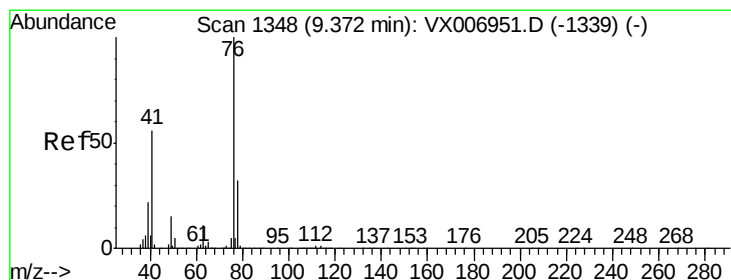
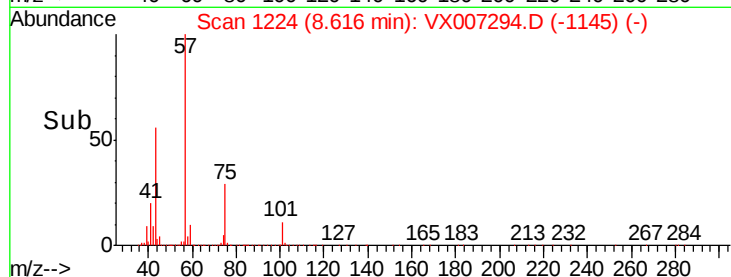
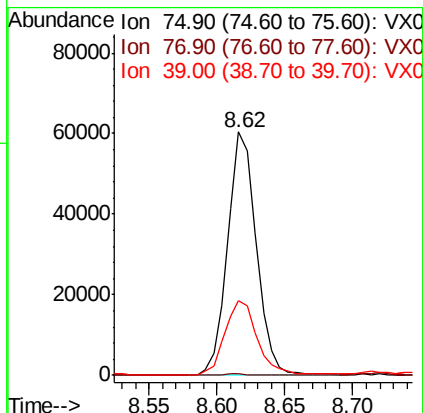
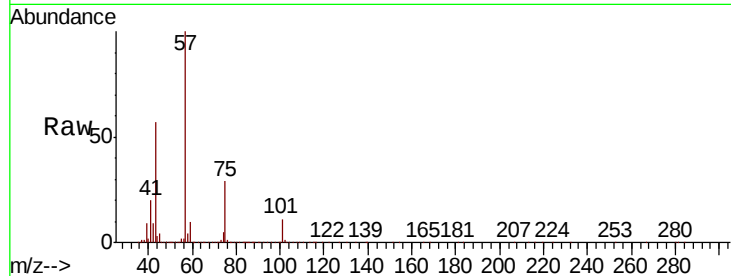
RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

Tot Ion:	75	Resp:	89294
Ion	Ratio	Lower	Upper
75	100		
77	0.4	26.2	39.2#
39	30.5	36.7	55.1#



#57

1,3-Dichloropropane

Concen: 2.305 ug/l

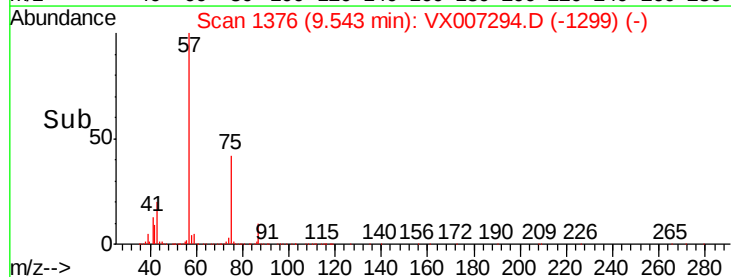
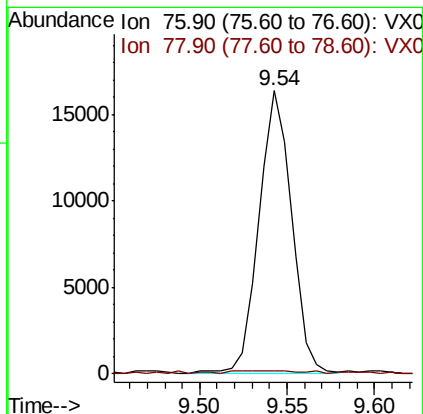
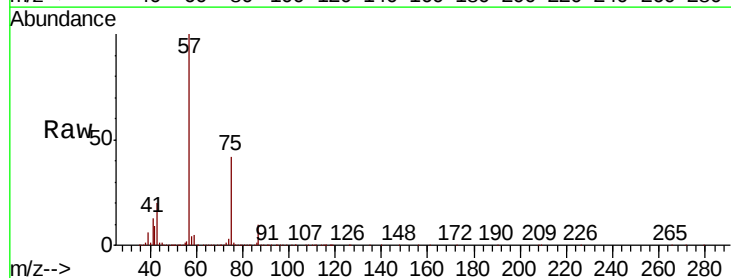
RT: 9.54 min Scan# 1376

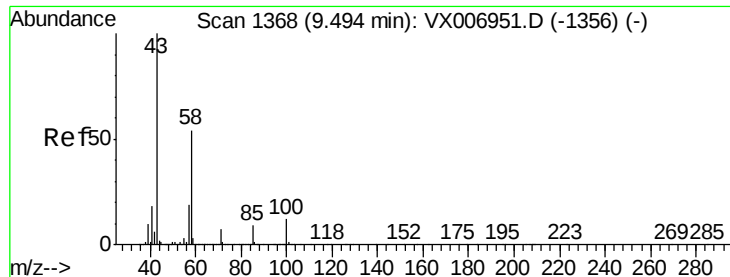
Delta R.T. 0.17 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

Tgt Ion:	76	Resp:	21411
Ion	Ratio	Lower	Upper
76	100		
78	2.6	26.0	39.0#





#59

2-Hexanone

Concen: 44.734 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.05 min

Lab File: VX007294.D

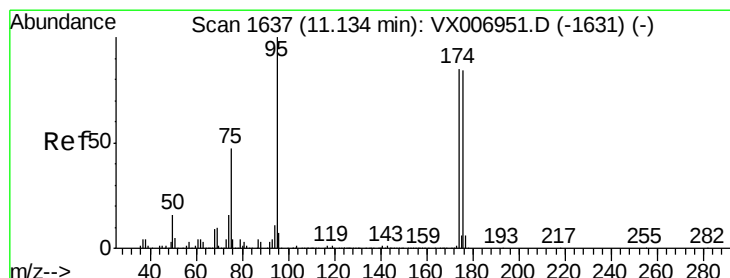
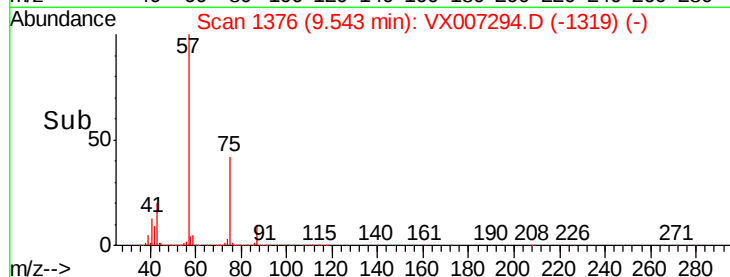
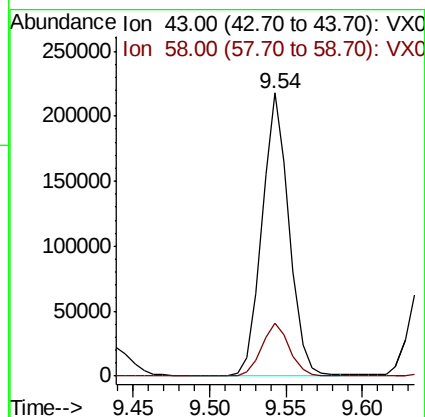
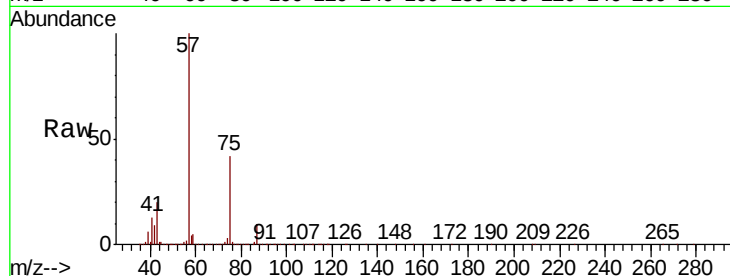
Acq: 29 Jan 2019 17:55

Tot Ion: 43 Resp: 267640

Ion Ratio Lower Upper

43 100

58 19.3 27.7 83.1#



#62

4-Bromofluorobenzene

Concen: 52.501 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

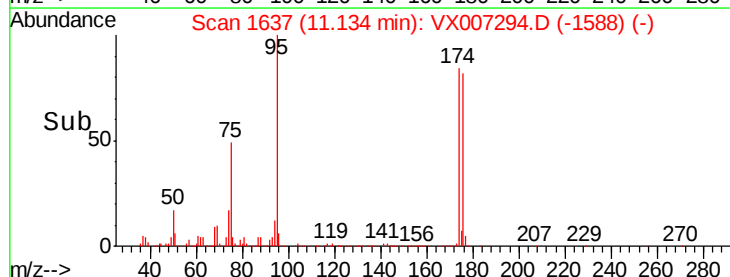
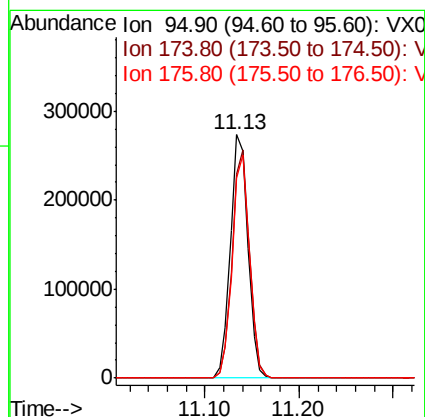
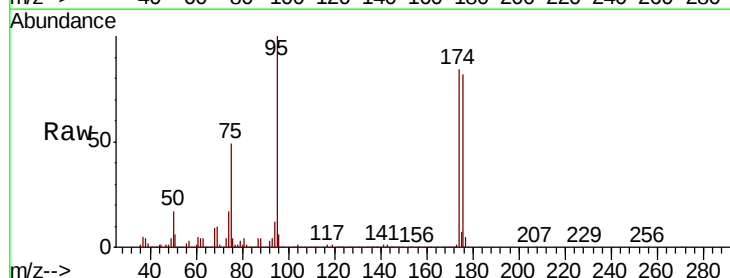
Tgt Ion: 95 Resp: 356491

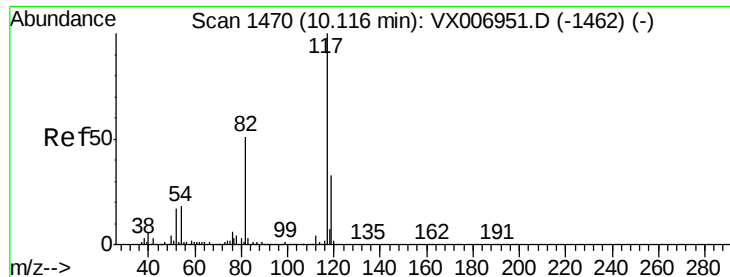
Ion Ratio Lower Upper

95 100

174 92.2 0.0 182.2

176 89.8 0.0 178.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

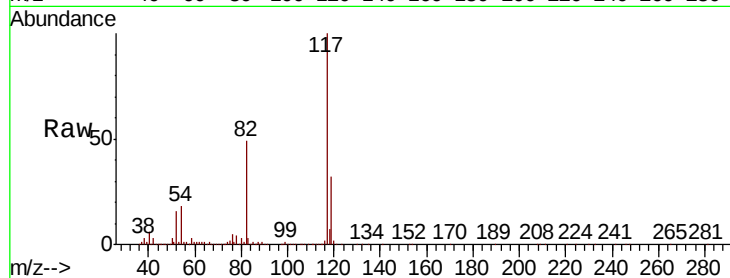
Tot Ion:117 Resp: 796919

Ion Ratio Lower Upper

117 100

82 49.3 41.0 61.6

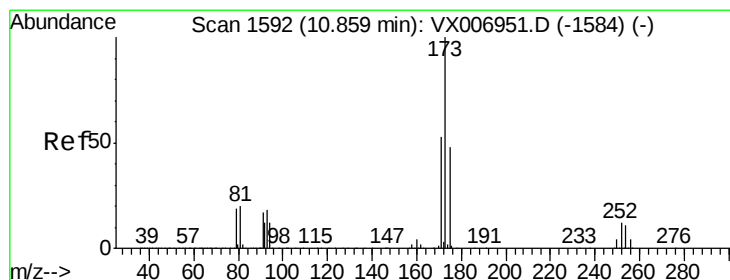
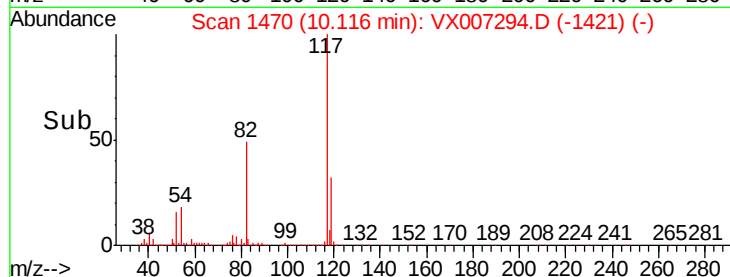
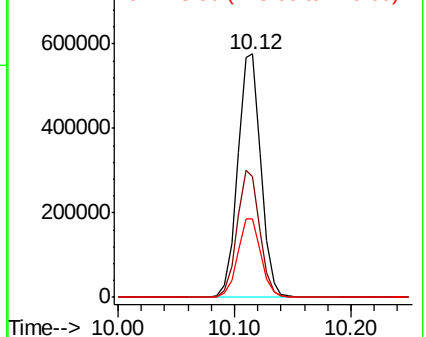
119 32.0 25.4 38.0



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 4.746 ug/l

RT: 10.83 min Scan# 1588

Delta R.T. -0.02 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

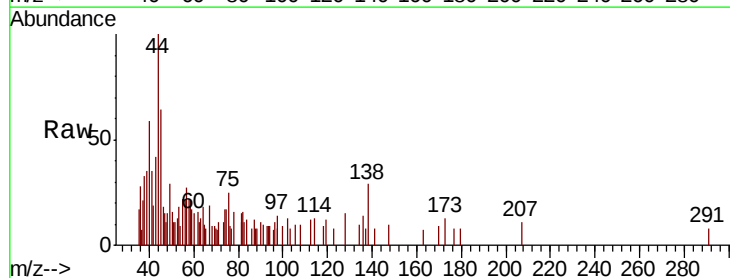
Tgt Ion:173 Resp: 108

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

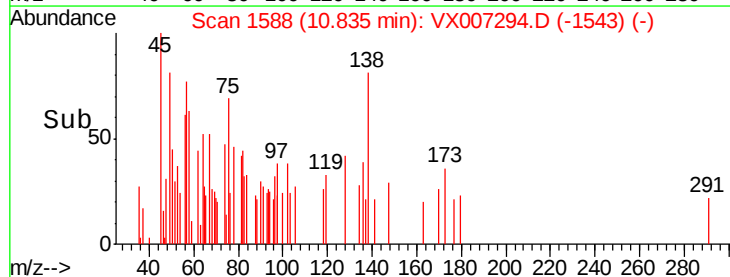
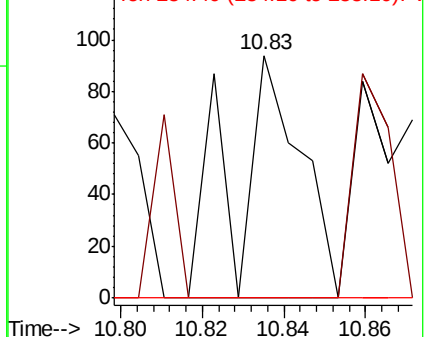
254 0.0 0.2 0.2#

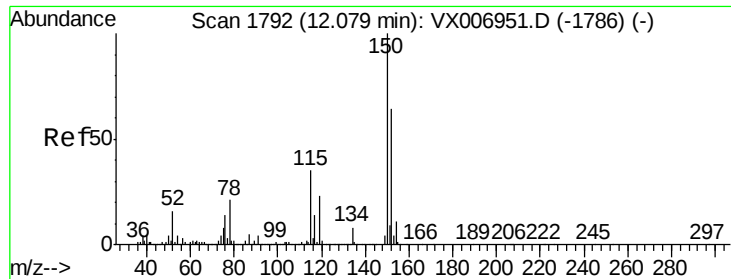


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

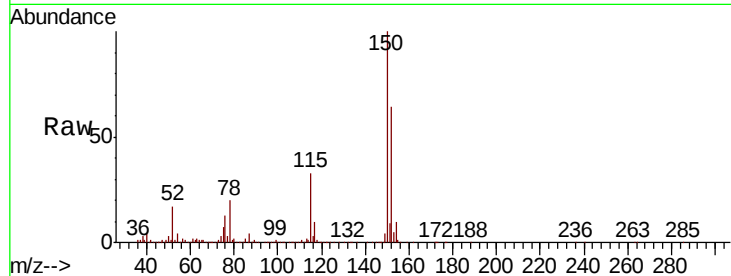




#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.6	39.1	117.2
150	155.6	0.0	344.8

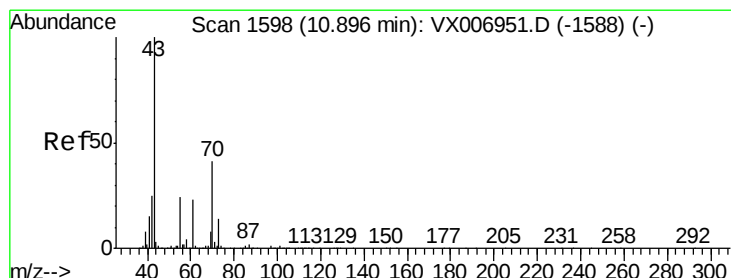
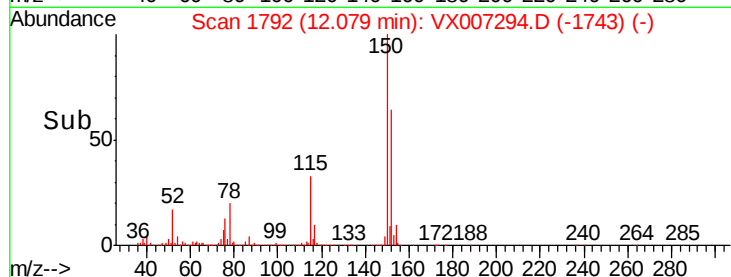
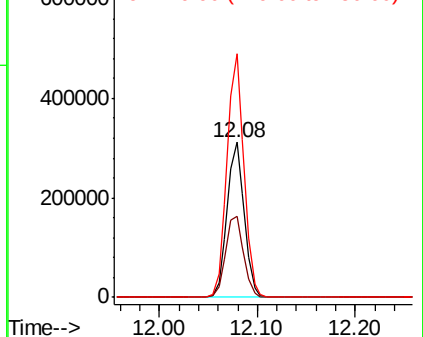


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

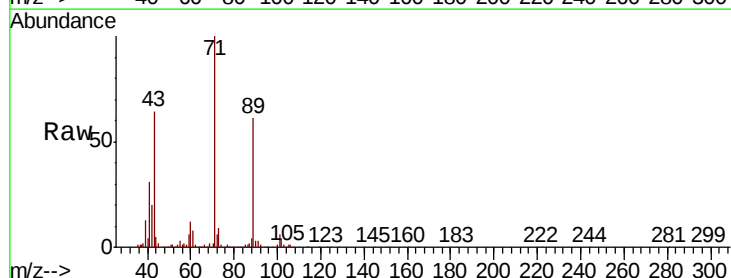
Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate
Concen: 2.399 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. -0.20 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

Tgt Ion	Ratio	Lower	Upper
43	100		
70	3.9	35.8	53.8#
55	5.2	19.4	29.0#
61	14.2	20.1	30.1#



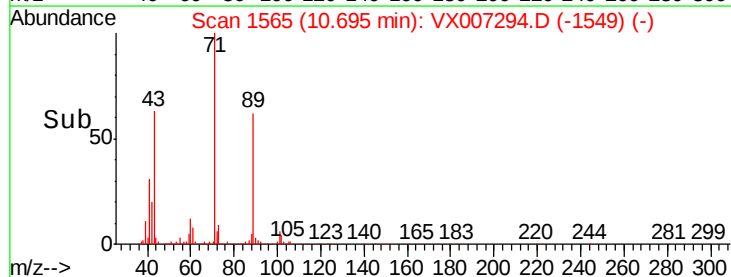
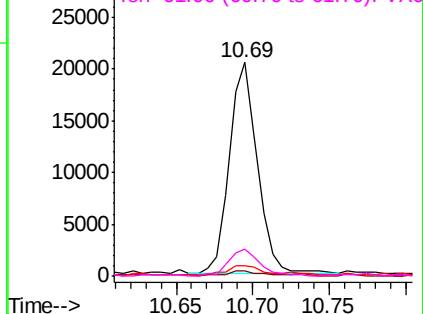
Abundance

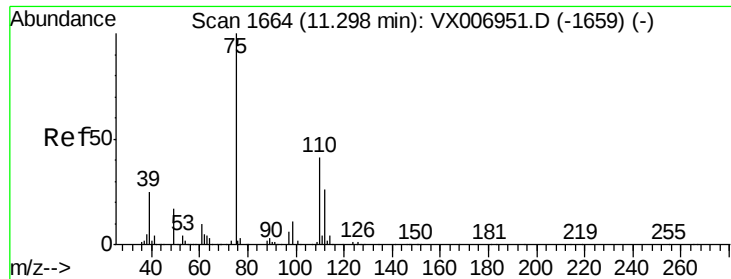
Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

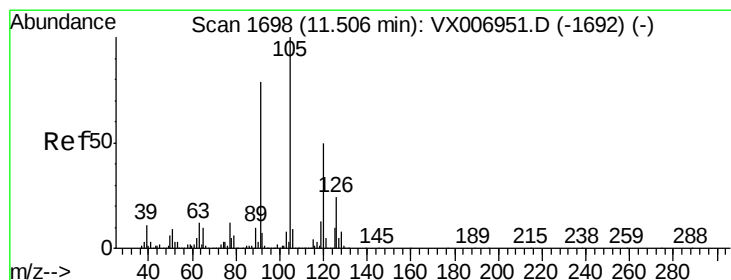
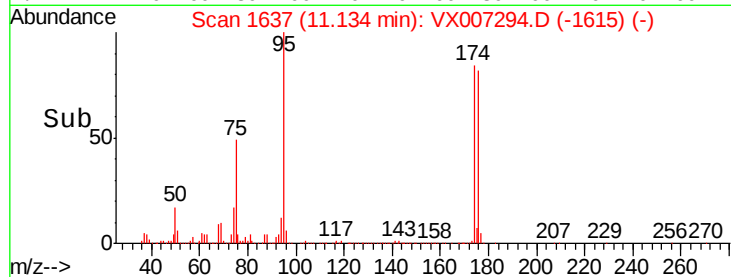
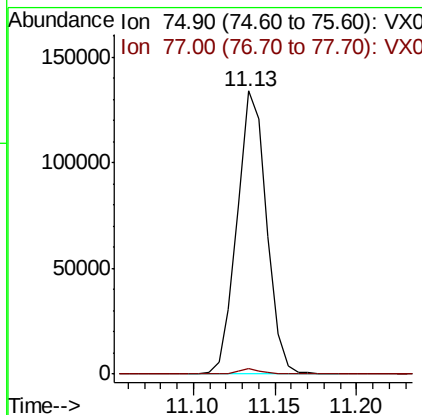
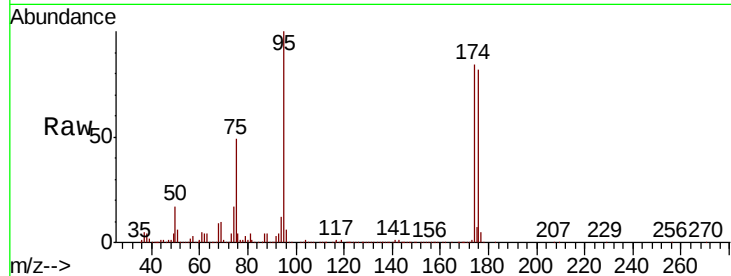




#76

1,2,3-Trichloropropane
Concen: 21.989 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

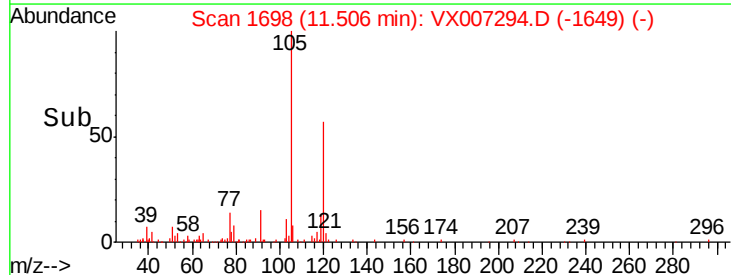
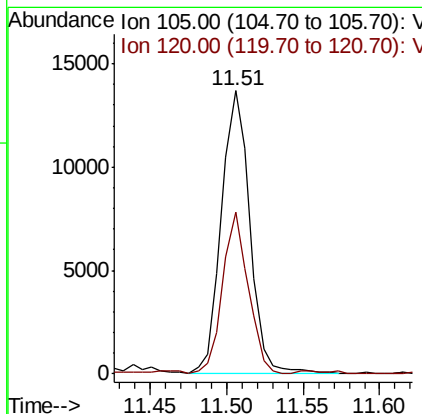
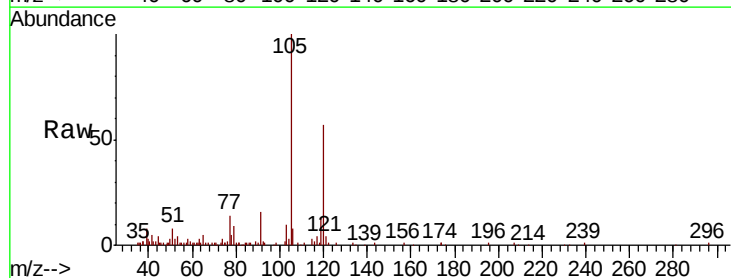
Tot Ion: 75 Resp: 168937
Ion Ratio Lower Upper
75 100
77 1.6 18.5 55.5#

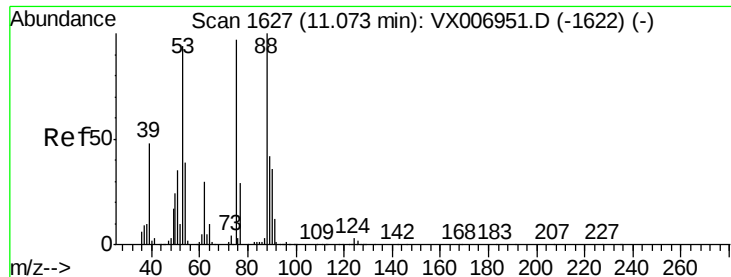


#80

1,3,5-Trimethylbenzene
Concen: 0.793 ug/l
RT: 11.51 min Scan# 1698
Delta R.T. -0.00 min
Lab File: VX007294.D
Acq: 29 Jan 2019 17:55

Tgt Ion: 105 Resp: 17711
Ion Ratio Lower Upper
105 100
120 51.5 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 65.123 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007294.D

Acq: 29 Jan 2019 17:55

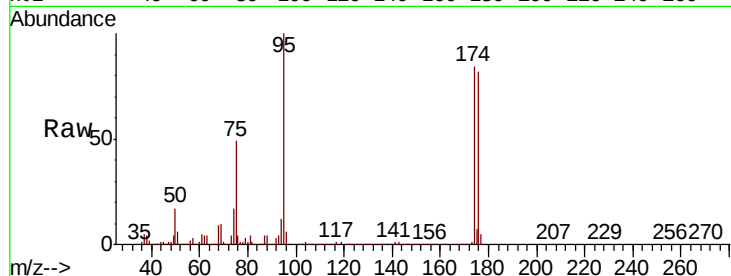
Tot Ion: 75 Resp: 168937

Ion Ratio Lower Upper

75 100

53 0.0 79.7 119.5#

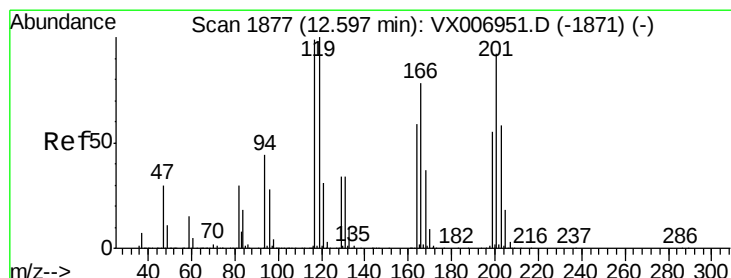
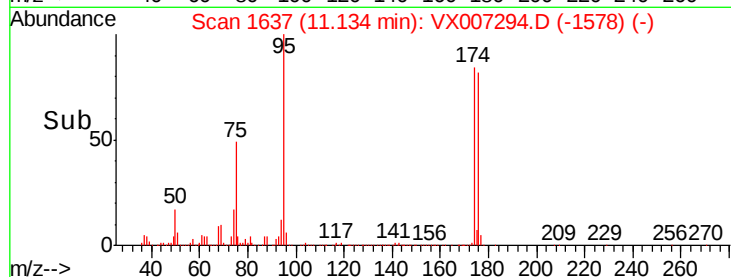
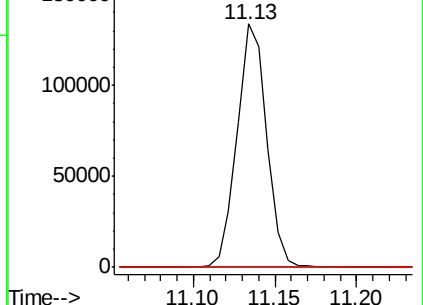
89 0.1 38.0 57.0#



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: 2.935 ug/l

RT: 12.58 min Scan# 1875

Delta R.T. -0.01 min

Lab File: VX007294.D

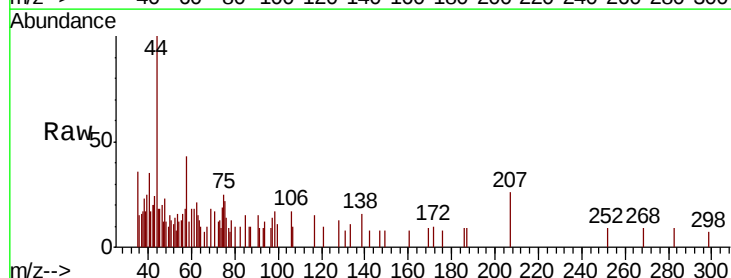
Acq: 29 Jan 2019 17:55

Tgt Ion: 117 Resp: 108

Ion Ratio Lower Upper

117 100

201 45.4 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

