

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111218\
 Data File : VU028074.D
 Acq On : 12 Nov 2018 18:58
 Operator : MD/SY
 Sample : J5887-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 W-1-S

Quant Time: Nov 13 02:47:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	169038	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	322480	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	291766	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	115672	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.31	65	146743	58.39	ug/l	0.00
Spiked Amount			Recovery	=	116.78%	
35) Dibromofluoromethane	4.88	113	105501	51.89	ug/l	0.00
Spiked Amount			Recovery	=	103.78%	
50) Toluene-d8	7.57	98	419342	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	
62) 4-Bromofluorobenzene	10.31	95	137175	47.35	ug/l	0.00
Spiked Amount			Recovery	=	94.70%	

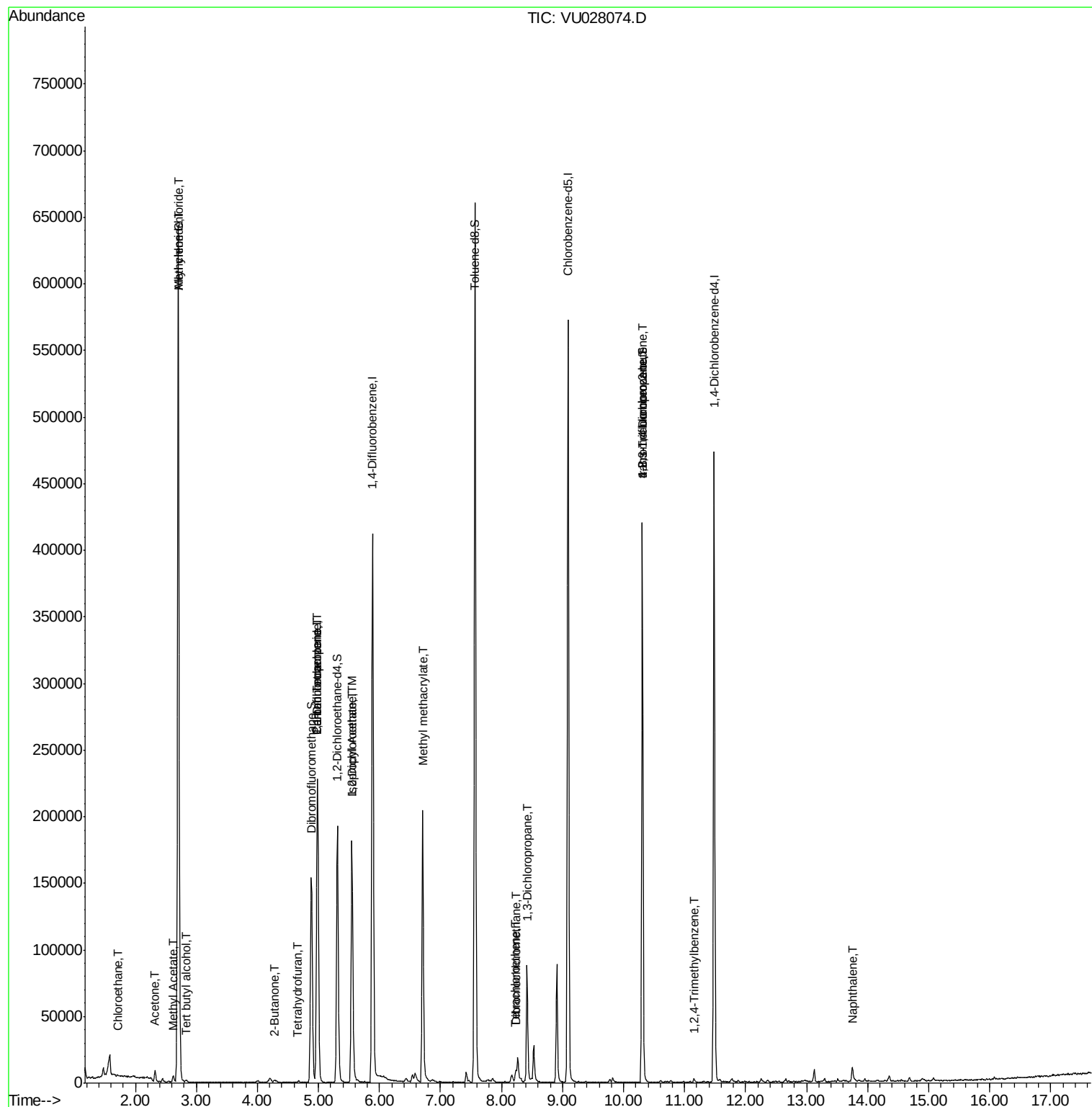
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	350	0.236	ug/l #	42
11) Tert butyl alcohol	2.83	59	1551	2.331	ug/l #	73
13) Acrolein	2.20	56	71	Below Cal		90
14) Allyl chloride	2.70	41	13501	3.118	ug/l #	27
16) Acetone	2.32	43	8245	5.288	ug/l	95
18) Methyl Acetate	2.62	43	6994	1.631	ug/l	97
20) Methylene Chloride	2.70	84	266160	116.910	ug/l	97
25) 2-Butanone	4.30	43	4044	1.630	ug/l	93
29) Tetrahydrofuran	4.66	42	791	0.478	ug/l #	48
31) Cyclohexane	4.98	56	4343	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15504	4.590	ug/l #	50
38) Carbon Tetrachloride	4.99	117	17187	5.742	ug/l #	16
42) 1,2-Dichloroethane	5.54	62	783	0.213	ug/l #	76
43) Isopropyl Acetate	5.55	43	212886	27.458	ug/l	99
48) Methyl methacrylate	6.71	41	17796	4.684	ug/l #	45
57) 1,3-Dichloropropane	8.41	76	941	0.209	ug/l #	43
60) Dibromochloromethane	8.23	129	1041	0.445	ug/l #	10
64) Tetrachloroethene	8.22	164	1152	0.609	ug/l #	80
76) 1,2,3-Trichloropropane	10.31	75	73307	23.169	ug/l #	34
81) trans-1,4-Dichloro-2-buten	10.31	75	73307	57.808	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	1872	0.250	ug/l	91
95) Naphthalene	13.75	128	11819	1.068	ug/l #	96

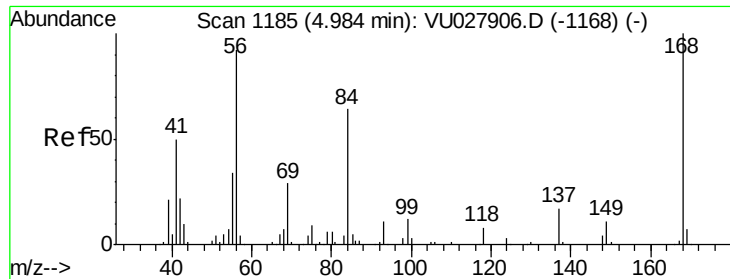
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

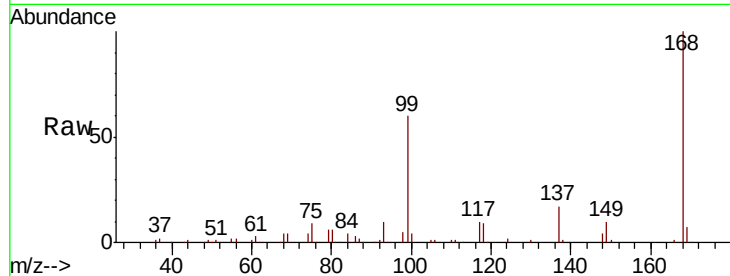
W-1-S

Tot Ion:168 Resp: 169038

Ion Ratio Lower Upper

168 100

99 60.0 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU027906.D (-1168) (-)

Ion 98.90 (98.60 to 99.60): VU028074.D (-1092) (-)

4.99

80000

60000

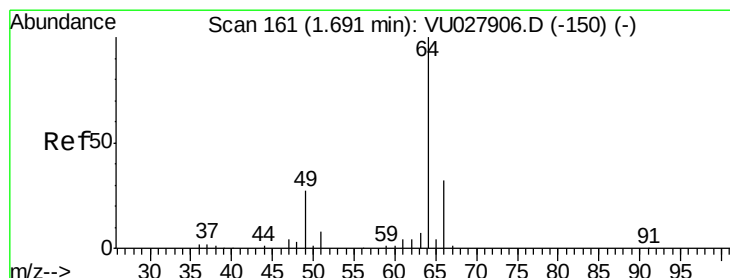
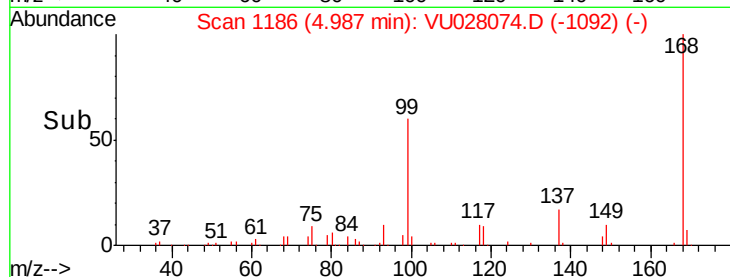
40000

20000

0

Time-->

4.90 5.00 5.10



#6

Chloroethane

Concen: 0.236 ug/l

RT: 1.72 min Scan# 170

Delta R.T. 0.03 min

Lab File: VU028074.D

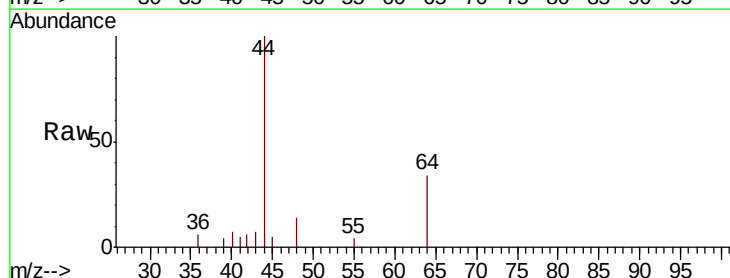
Acq: 12 Nov 2018 18:58

Tgt Ion: 64 Resp: 350

Ion Ratio Lower Upper

64 100

66 0.0 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VU027906.D (-150) (-)

Ion 65.90 (65.60 to 66.60): VU028074.D (-68) (-)

1.72

1200

1000

800

600

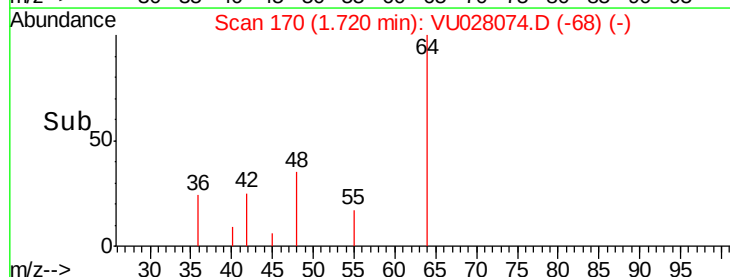
400

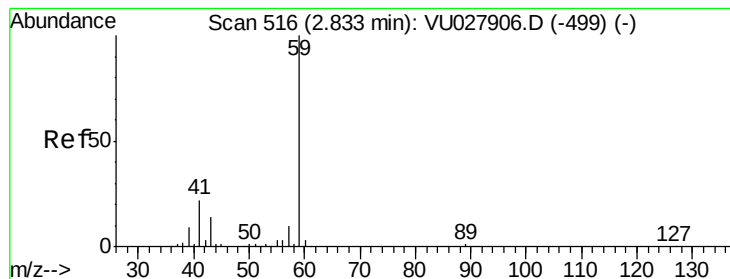
200

0

Time-->

1.70 1.72 1.74





#11

Tert butyl alcohol

Concen: 2.331 ug/l

RT: 2.83 min Scan# 516

Delta R.T. -0.00 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

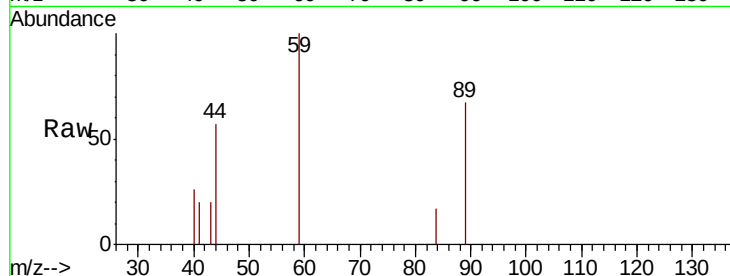
W-1-S

Tot Ion: 59 Resp: 1551

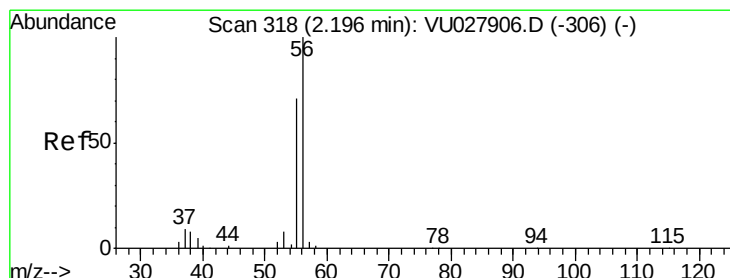
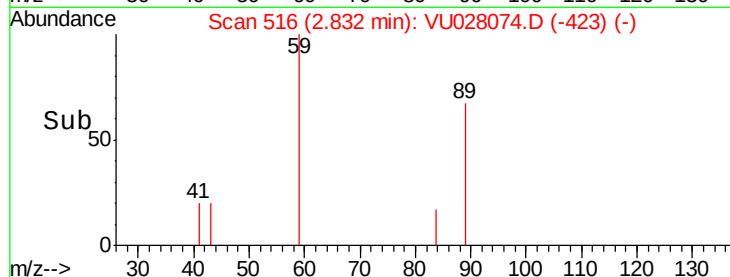
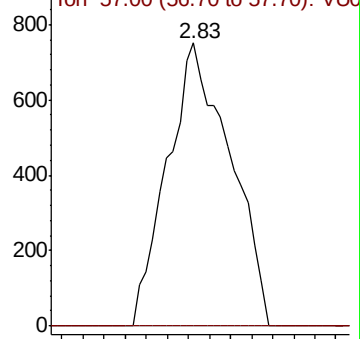
Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU028074.D (-423) (-)



#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 318

Delta R.T. 0.00 min

Lab File: VU028074.D

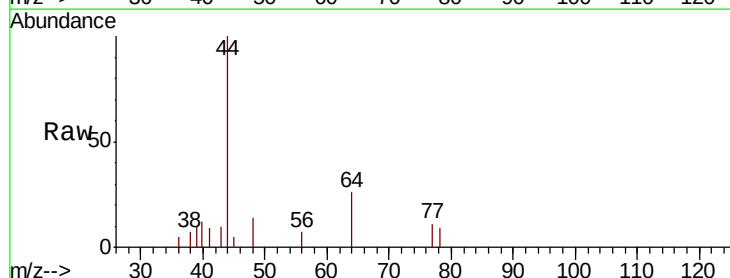
Acq: 12 Nov 2018 18:58

Tgt Ion: 56 Resp: 71

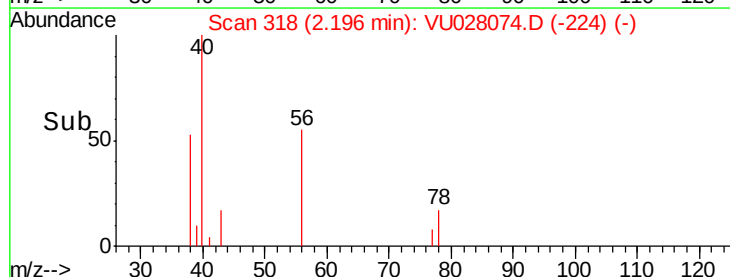
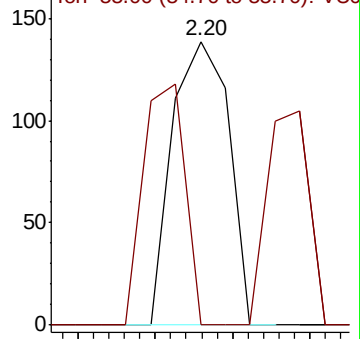
Ion Ratio Lower Upper

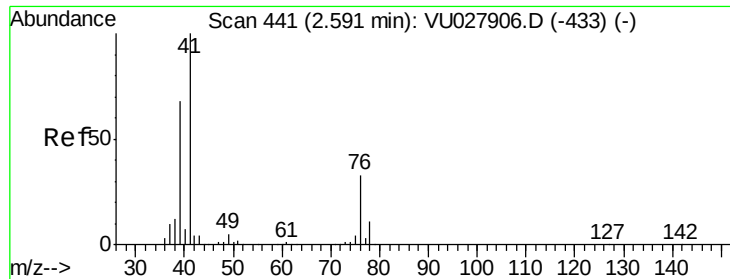
56 100

55 62.0 56.2 84.4



Abundance Ion 56.00 (55.70 to 56.70): VU028074.D (-224) (-)

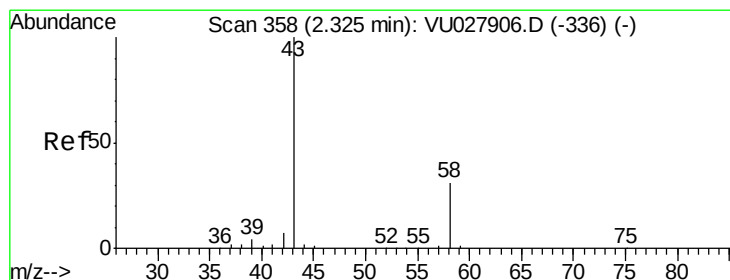
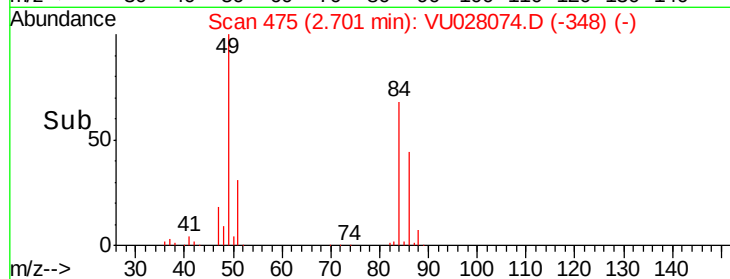
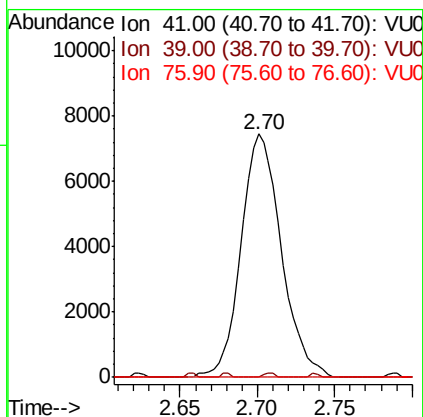
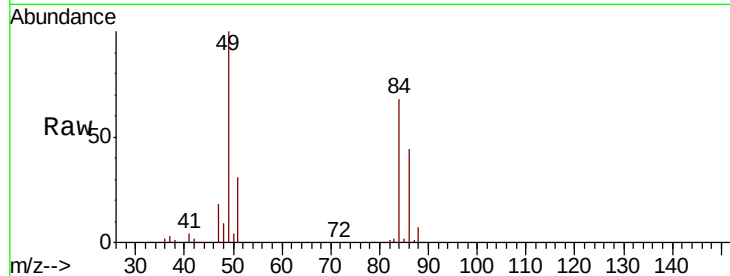




#14
Allvl chloride
Concen: 3.118 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.11 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

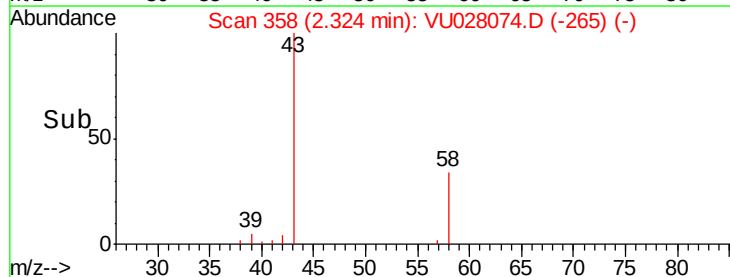
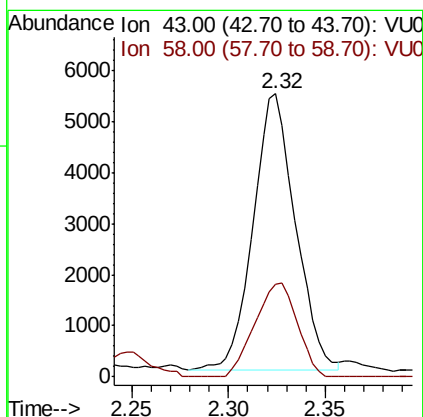
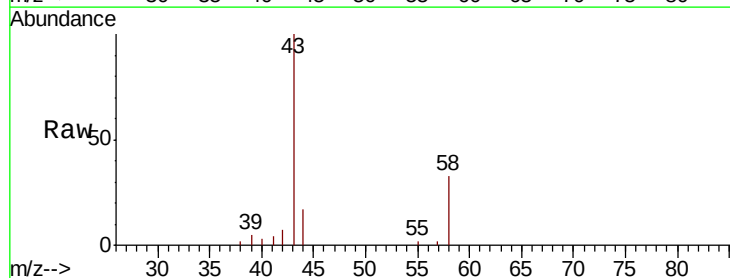
Instrument :
MSVOA_U
ClientSampleId :
W-1-S

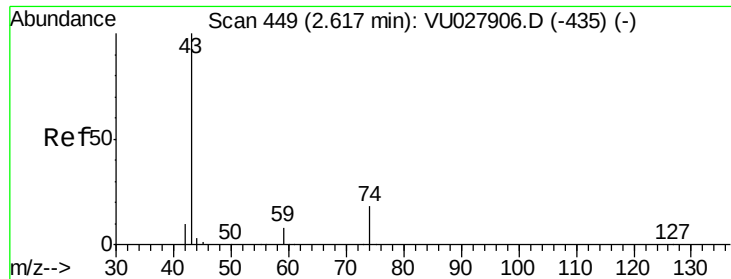
Tot Ion: 41 Resp: 13501
Ion Ratio Lower Upper
41 100
39 0.5 51.9 77.9#
76 0.0 23.8 35.6#



#16
Acetone
Concen: 5.288 ug/l
RT: 2.32 min Scan# 358
Delta R.T. -0.00 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

Tgt Ion: 43 Resp: 8245
Ion Ratio Lower Upper
43 100
58 33.6 24.6 37.0

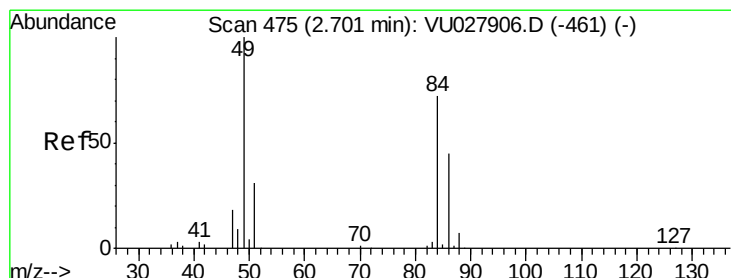
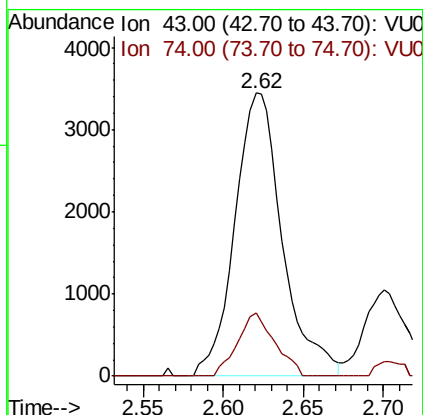
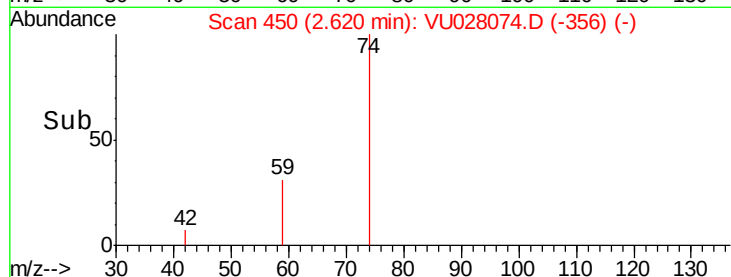
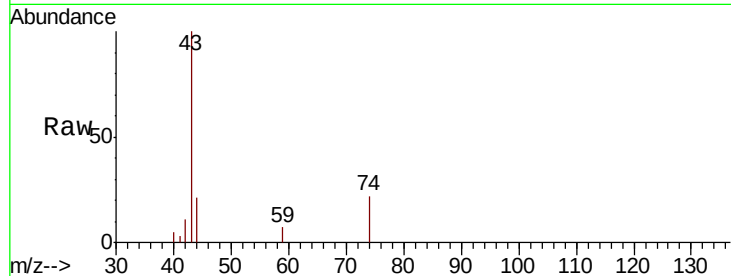




#18
Methyl Acetate
Concen: 1.631 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

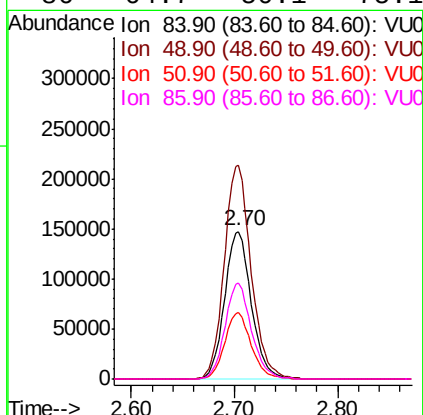
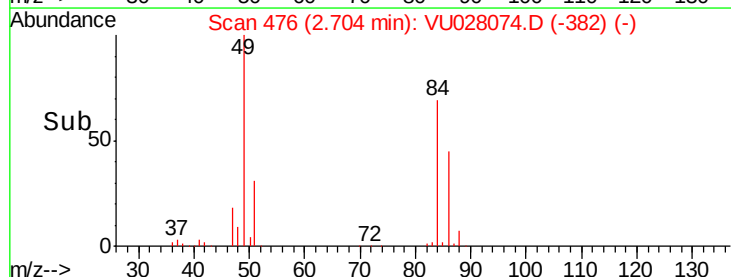
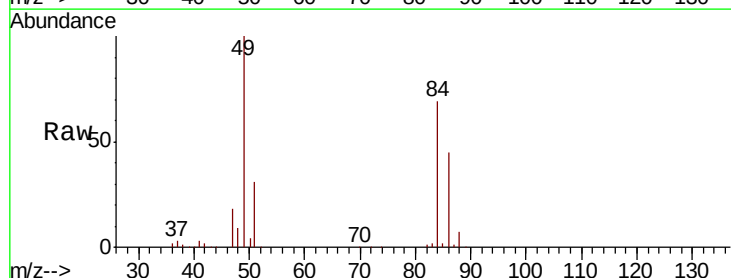
Instrument :
MSVOA_U
ClientSampleId :
W-1-S

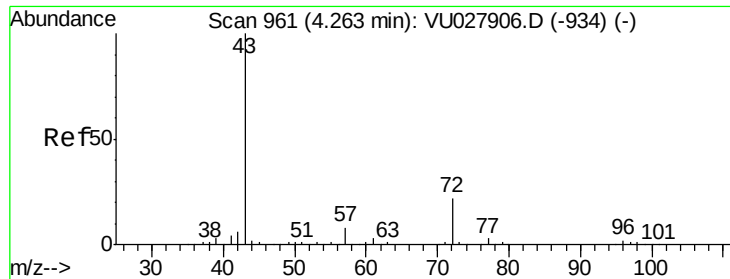
Tot Ion: 43 Resp: 6994
Ion Ratio Lower Upper
43 100
74 17.3 14.9 22.3



#20
Methylene Chloride
Concen: 116.910 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

Tgt Ion: 84 Resp: 266160
Ion Ratio Lower Upper
84 100
49 144.7 111.6 167.4
51 44.7 34.8 52.2
86 64.7 50.1 75.1





#25

2-Butanone

Concen: 1.630 ug/l

RT: 4.30 min Scan# 971

Delta R.T. 0.03 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

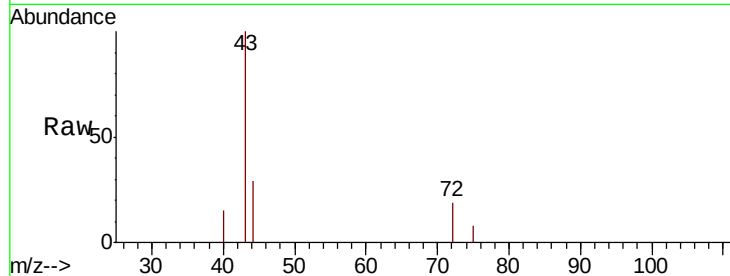
W-1-S

Tot Ion: 43 Resp: 4044

Ion Ratio Lower Upper

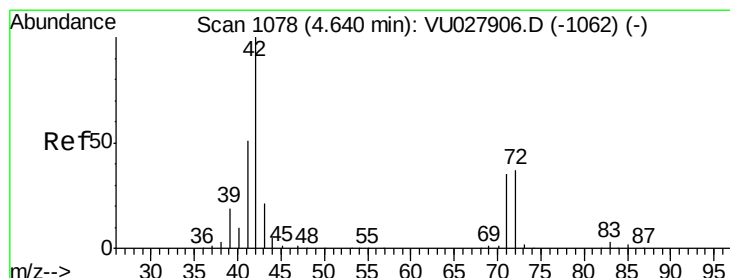
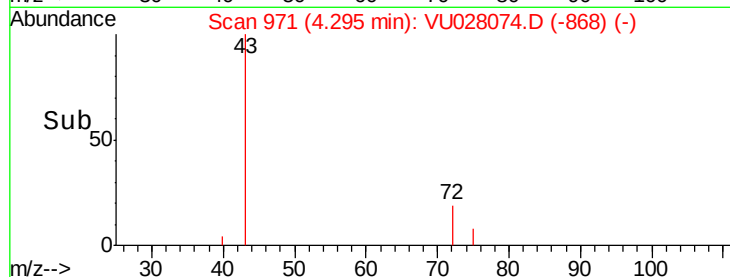
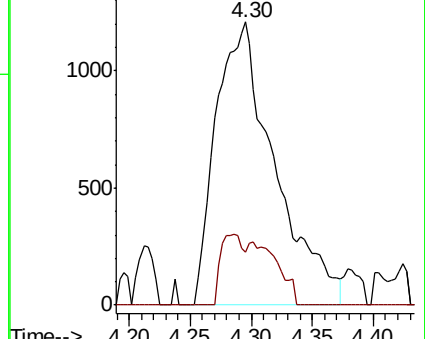
43 100

72 18.6 17.7 26.5



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0



#29

Tetrahydrofuran

Concen: 0.478 ug/l

RT: 4.66 min Scan# 1084

Delta R.T. 0.02 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

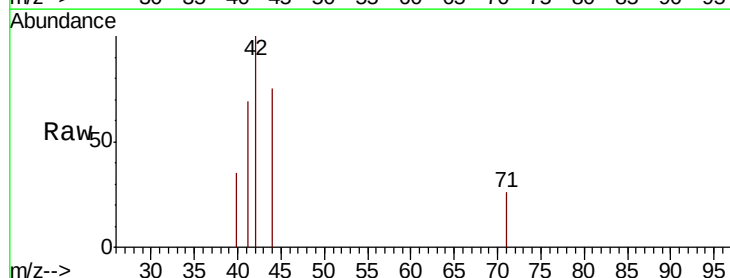
Tgt Ion: 42 Resp: 791

Ion Ratio Lower Upper

42 100

72 0.0 29.4 44.0#

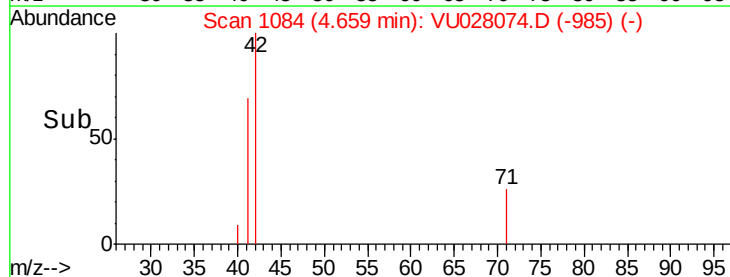
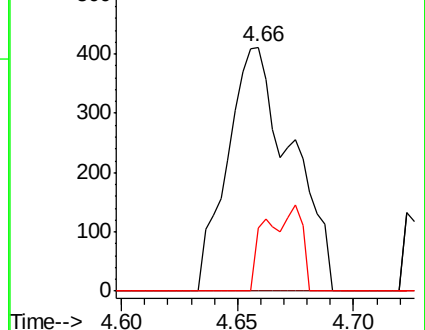
71 10.6 27.9 41.9#

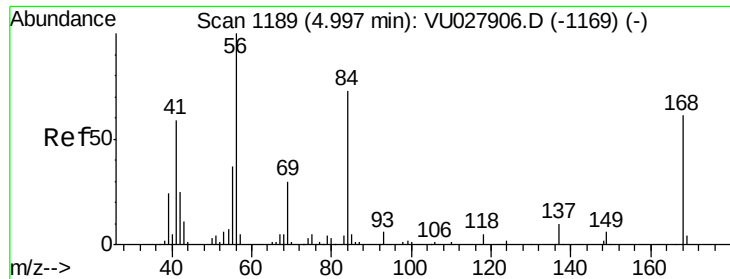


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

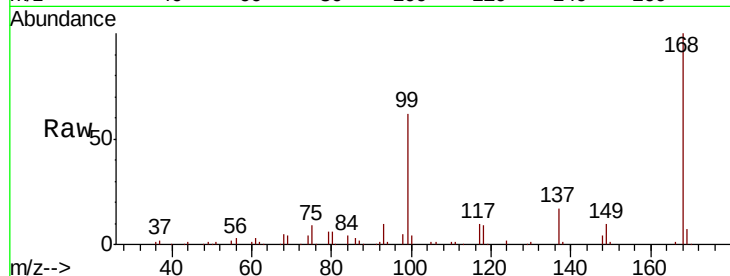




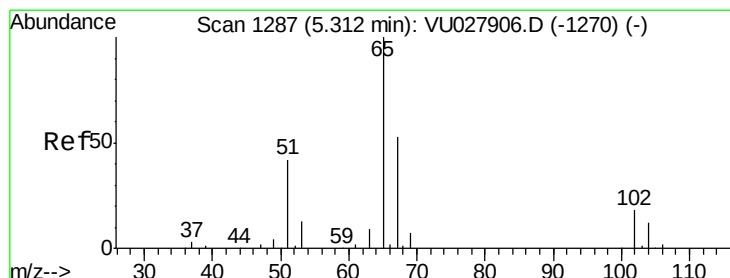
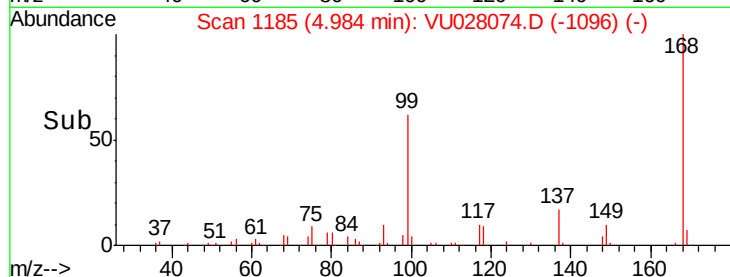
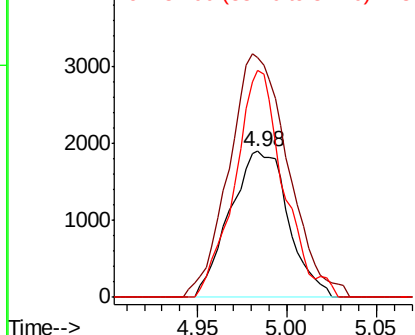
#31
Cyclohexane
Concen: Below Cal
RT: 4.98 min Scan# 1185
Delta R.T. -0.01 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

Instrument :
MSVOA_U
ClientSampleId :
W-1-S

Tot Ion: 56 Resp: 4343
Ion Ratio Lower Upper
56 100
69 158.6 23.7 35.5#
84 155.6 58.2 87.4#

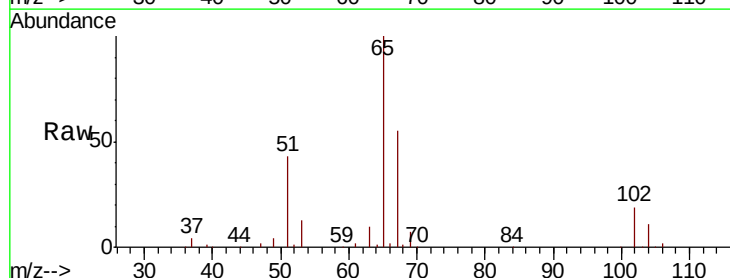


Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

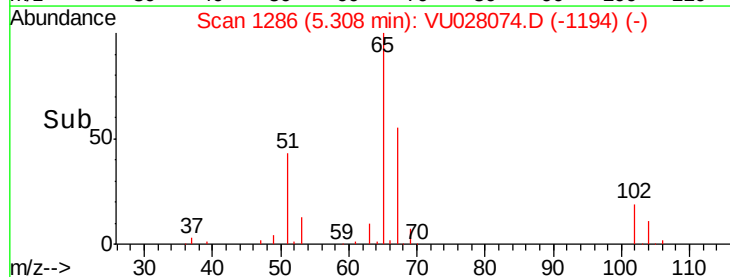
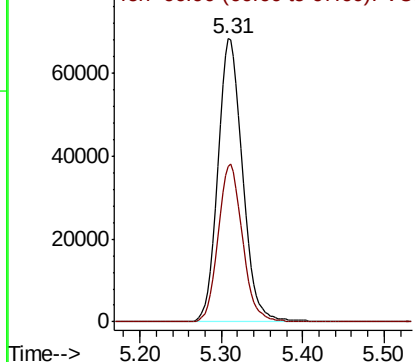


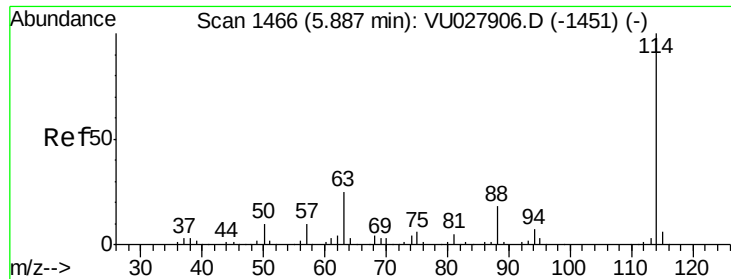
#33
1,2-Dichloroethane-d4
Concen: 58.390 ug/l
RT: 5.31 min Scan# 1286
Delta R.T. -0.00 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

Tgt Ion: 65 Resp: 146743
Ion Ratio Lower Upper
65 100
67 54.8 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU0
Ion 66.90 (66.60 to 67.60): VU0

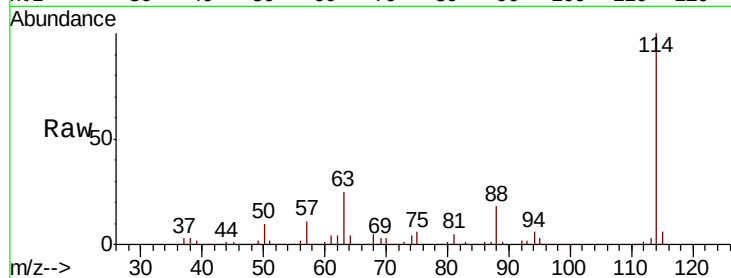




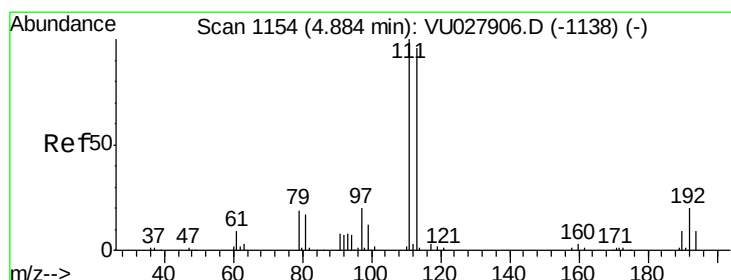
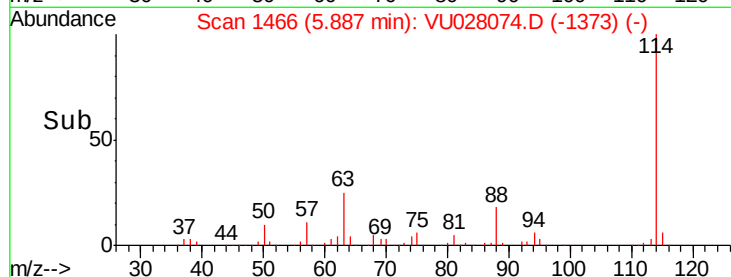
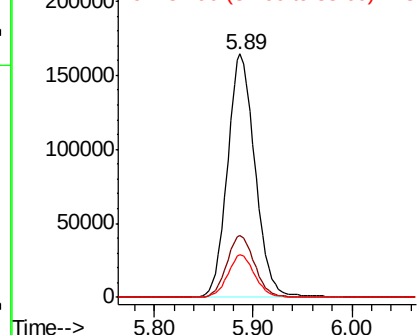
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1466
Delta R.T. -0.00 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

Instrument :
MSVOA_U
ClientSampleId :
W-1-S

Tot Ion:114 Resp: 322480
Ion Ratio Lower Upper
114 100
63 25.3 0.0 50.8
88 17.6 0.0 35.8

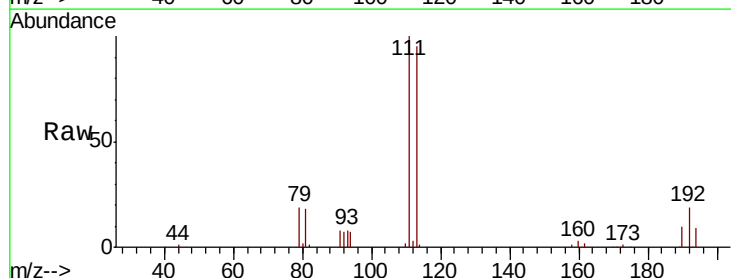


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

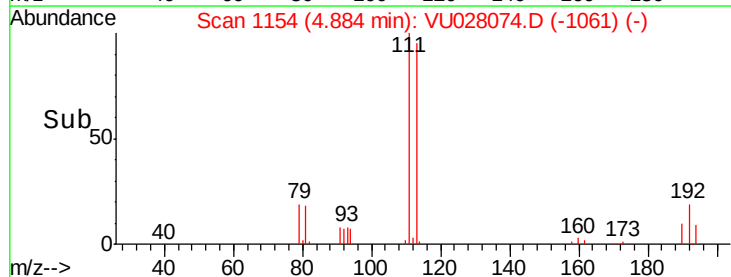
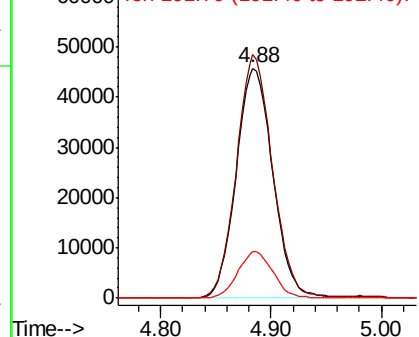


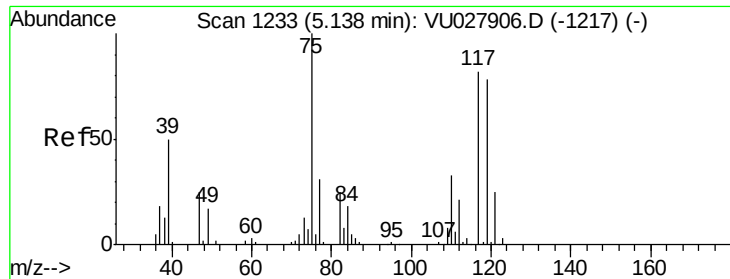
#35
Dibromofluoromethane
Concen: 51.887 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. -0.00 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

Tgt Ion:113 Resp: 105501
Ion Ratio Lower Upper
113 100
111 103.8 83.0 124.6
192 19.4 15.6 23.4



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: 4.590 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

W-1-S

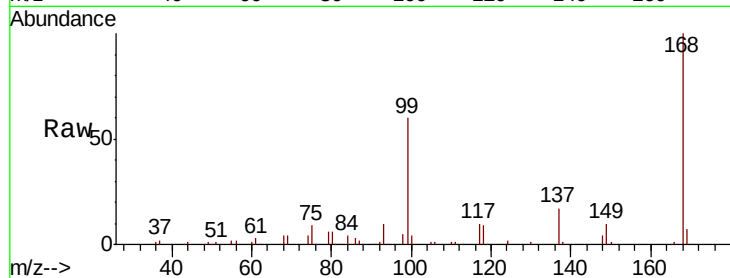
Tot Ion: 75 Resp: 15504

Ion Ratio Lower Upper

75 100

110 7.9 16.5 49.5#

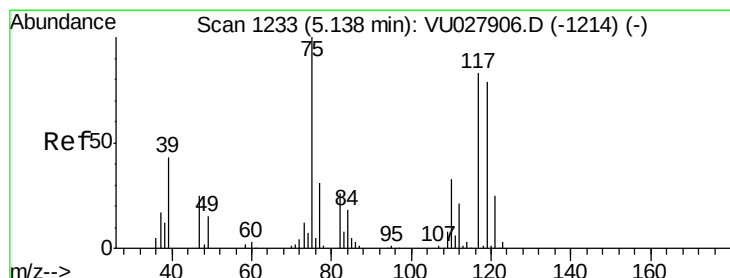
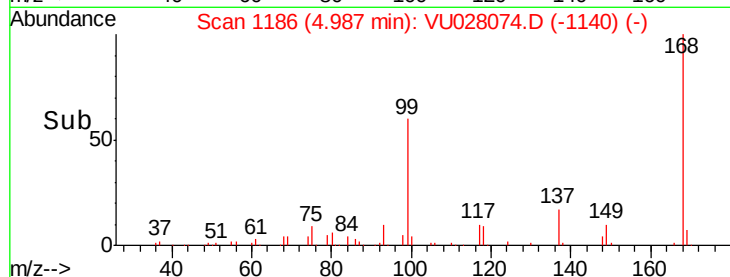
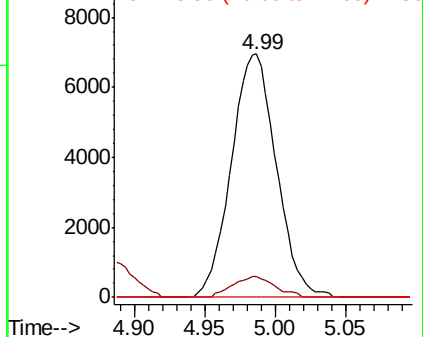
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU028074.D (-1140) (-)

Ion 109.90 (109.60 to 110.60): VU028074.D (-1140) (-)

Ion 76.90 (76.60 to 77.60): VU028074.D (-1140) (-)



#38

Carbon Tetrachloride

Concen: 5.742 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

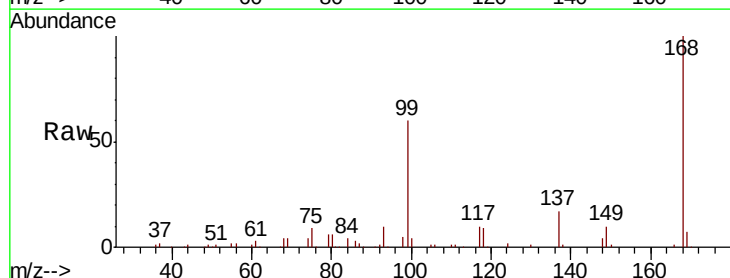
Tgt Ion: 117 Resp: 17187

Ion Ratio Lower Upper

117 100

119 4.4 76.0 114.0#

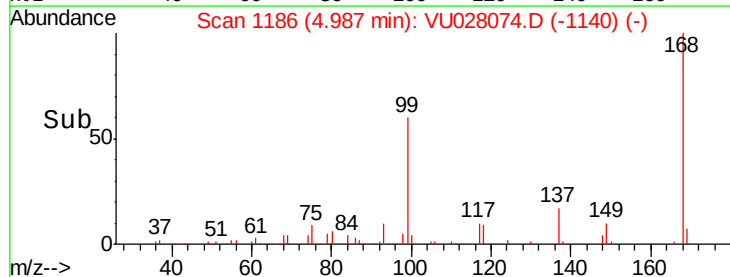
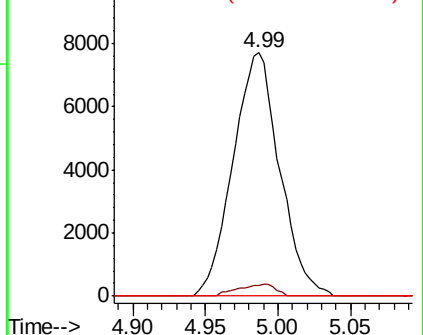
121 0.0 24.5 36.7#

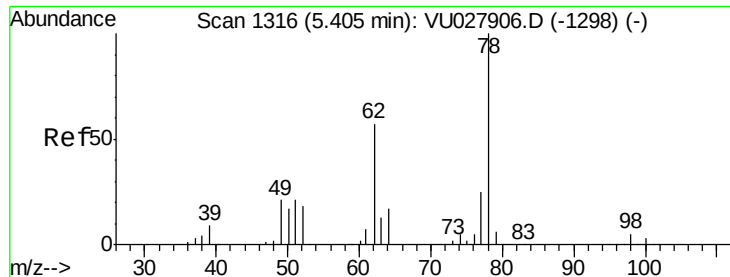


Abundance Ion 116.80 (116.50 to 117.50): VU028074.D (-1140) (-)

Ion 118.80 (118.50 to 119.50): VU028074.D (-1140) (-)

Ion 120.80 (120.50 to 121.50): VU028074.D (-1140) (-)

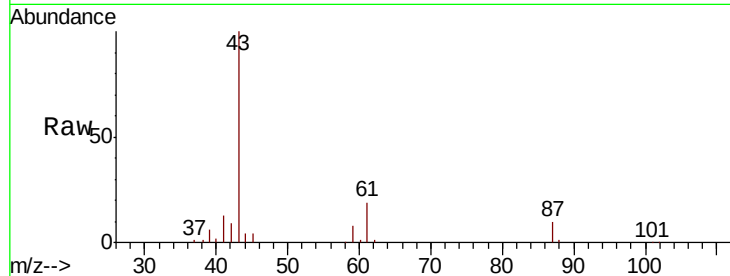




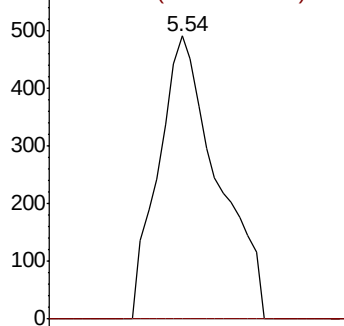
#42
 1,2-Dichloroethane
 Concen: 0.213 ug/l
 RT: 5.54 min Scan# 1359
 Delta R.T. 0.14 min
 Lab File: VU028074.D
 Acq: 12 Nov 2018 18:58

Instrument :
 MSVOA_U
 ClientSampled :
 W-1-S

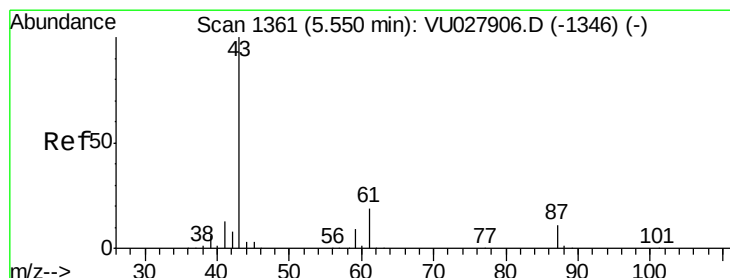
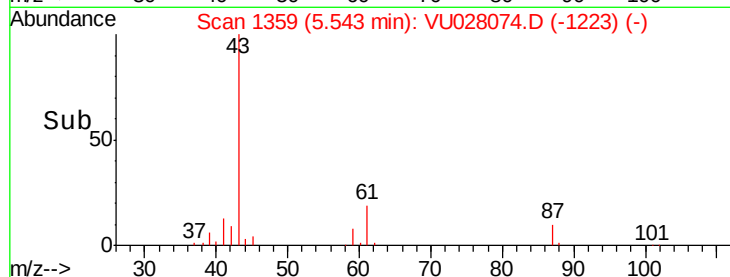
Tot Ion: 62 Resp: 783
 Ion Ratio Lower Upper
 62 100
 98 0.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VU0
 Ion 97.90 (97.60 to 98.60): VU0

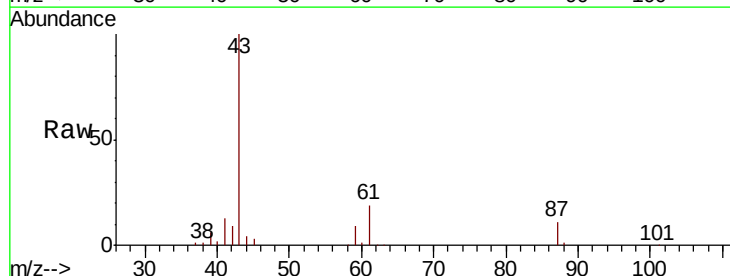


Time-->

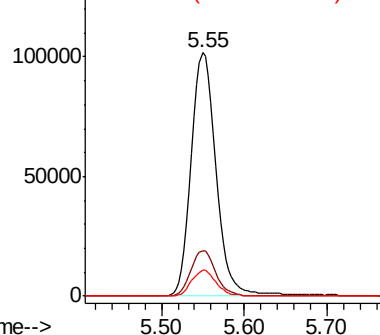


#43
 Isopropyl Acetate
 Concen: 27.458 ug/l
 RT: 5.55 min Scan# 1361
 Delta R.T. -0.00 min
 Lab File: VU028074.D
 Acq: 12 Nov 2018 18:58

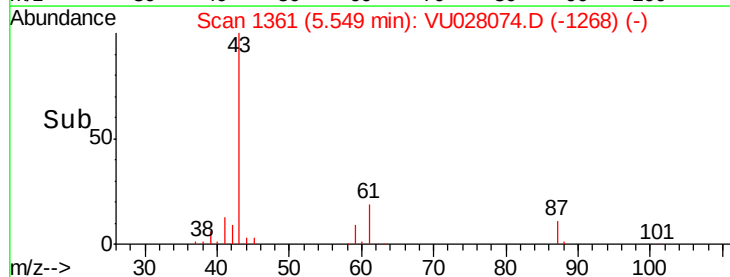
Tgt Ion: 43 Resp: 212886
 Ion Ratio Lower Upper
 43 100
 61 18.4 15.0 22.4
 87 10.4 8.6 12.8

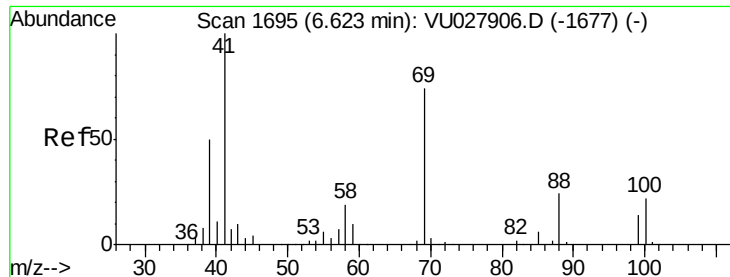


Abundance Ion 43.00 (42.70 to 43.70): VU0
 Ion 61.00 (60.70 to 61.70): VU0
 Ion 87.00 (86.70 to 87.70): VU0



Time-->

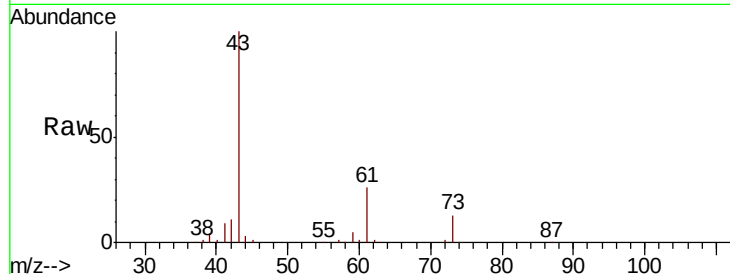




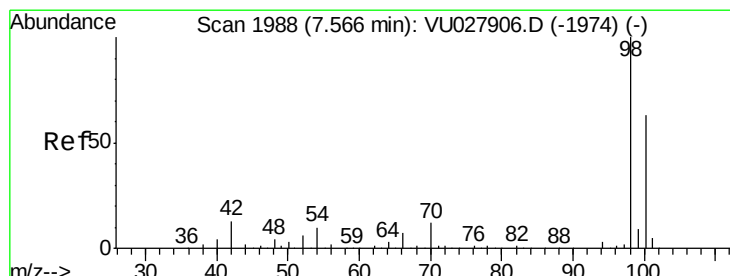
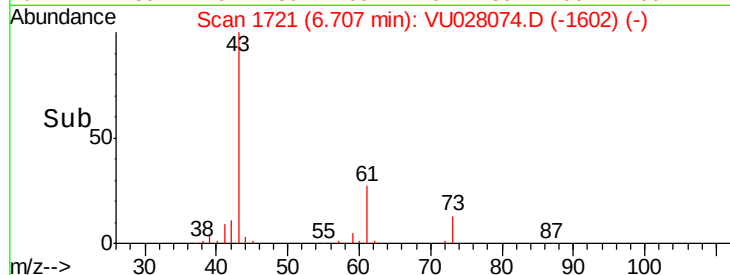
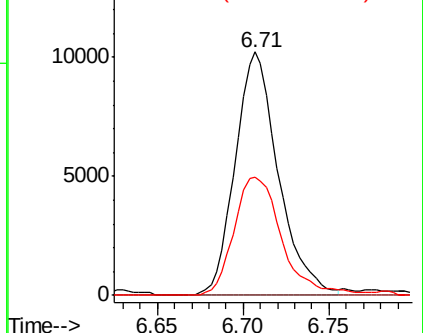
#48
Methvl methacrylate
Concen: 4.684 ug/l
RT: 6.71 min Scan# 1721
Delta R.T. 0.08 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

Instrument :
MSVOA_U
ClientSampleId :
W-1-S

Tot Ion: 41 Resp: 17796
Ion Ratio Lower Upper
41 100
69 0.0 59.8 89.8#
39 54.0 40.0 60.0

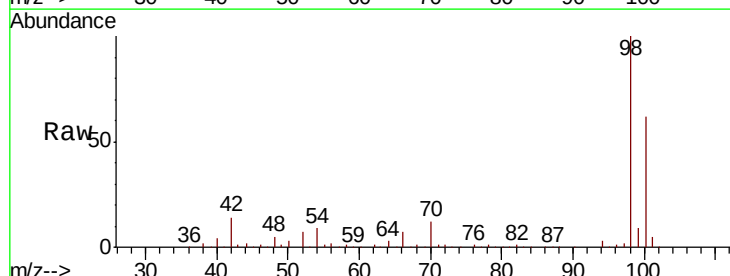


Abundance Ion 41.00 (40.70 to 41.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 39.00 (38.70 to 39.70): VU0

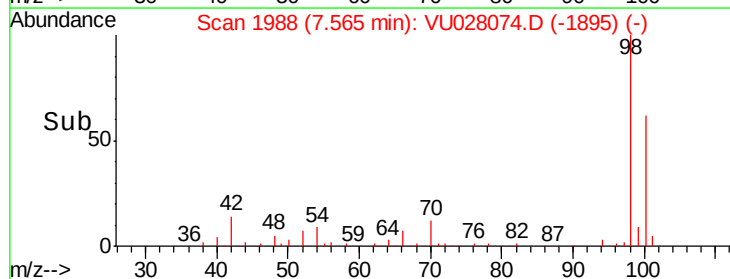
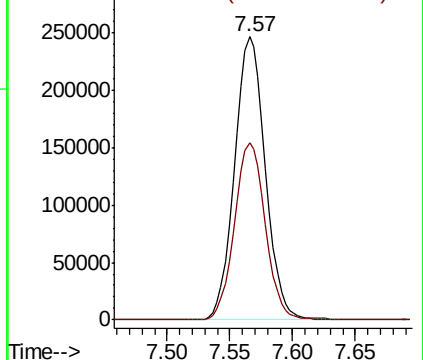


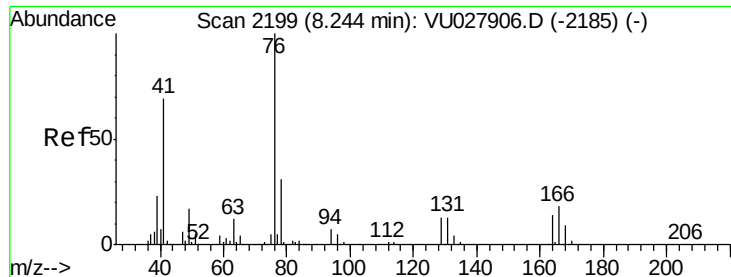
#50
Toluene-d8
Concen: 53.389 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028074.D
Acq: 12 Nov 2018 18:58

Tgt Ion: 98 Resp: 419342
Ion Ratio Lower Upper
98 100
100 62.8 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

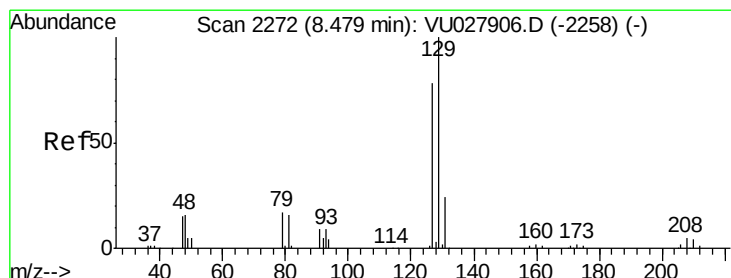
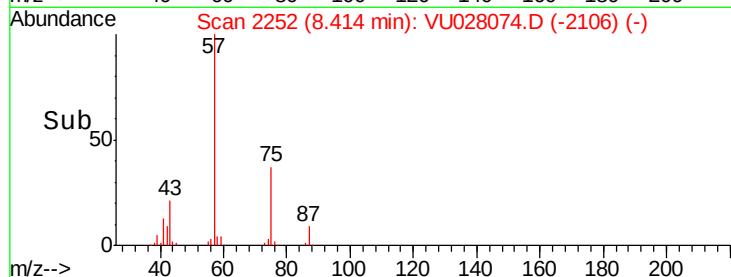
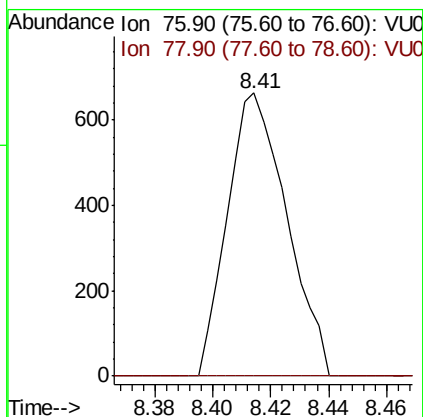
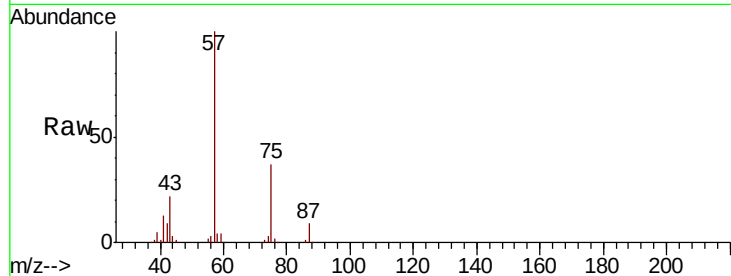




#57
 1,3-Dichloropropane
 Concen: 0.209 ug/l
 RT: 8.41 min Scan# 2252
 Delta R.T. 0.17 min
 Lab File: VU028074.D
 Acq: 12 Nov 2018 18:58

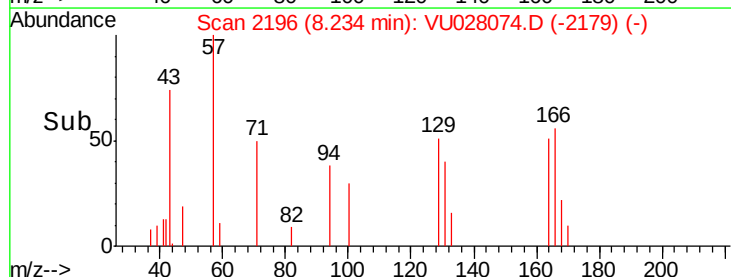
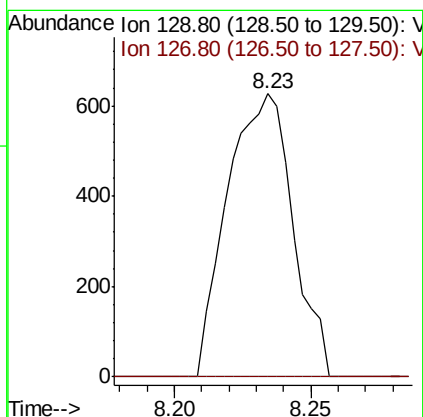
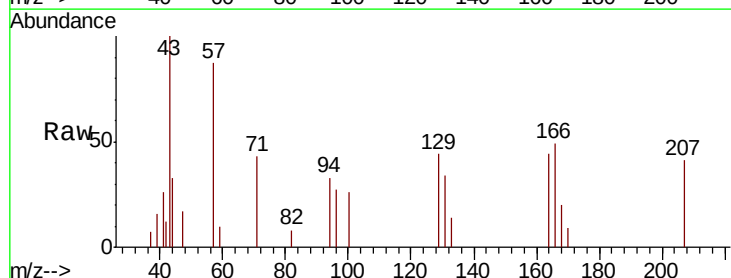
Instrument :
 MSVOA_U
 ClientSampleId :
 W-1-S

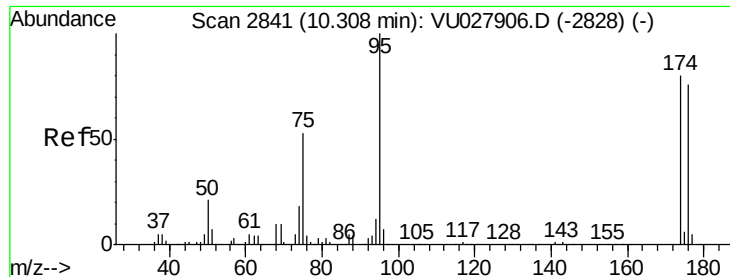
Tot Ion: 76 Resp: 941
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#



#60
 Dibromochloromethane
 Concen: 0.445 ug/l
 RT: 8.23 min Scan# 2196
 Delta R.T. -0.24 min
 Lab File: VU028074.D
 Acq: 12 Nov 2018 18:58

Tgt Ion: 129 Resp: 1041
 Ion Ratio Lower Upper
 129 100
 127 0.0 39.2 117.6#





#62

4-Bromofluorobenzene

Concen: 47.350 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.00 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

Instrument :

MSVOA_U

ClientSampled :

W-1-S

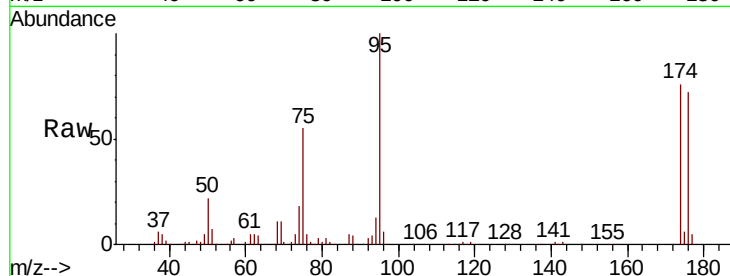
Tot Ion: 95 Resp: 137175

Ion Ratio Lower Upper

95 100

174 75.5 0.0 156.4

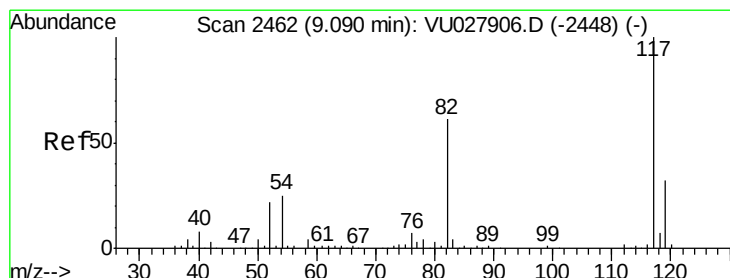
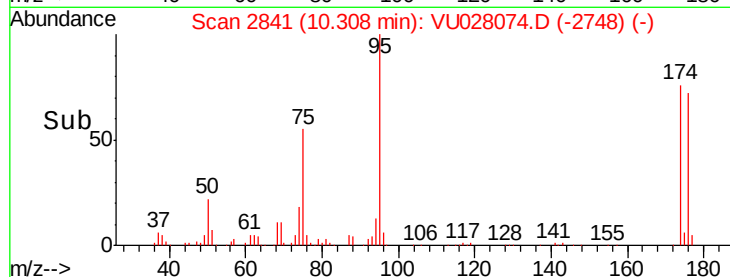
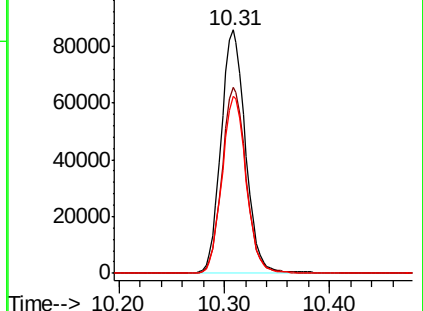
176 71.9 0.0 150.8



Abundance Ion 94.90 (94.60 to 95.60): VU027906.D (-2828) (-)

Ion 173.80 (173.50 to 174.50): VU027906.D (-2828) (-)

Ion 175.80 (175.50 to 176.50): VU027906.D (-2828) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2462

Delta R.T. -0.00 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

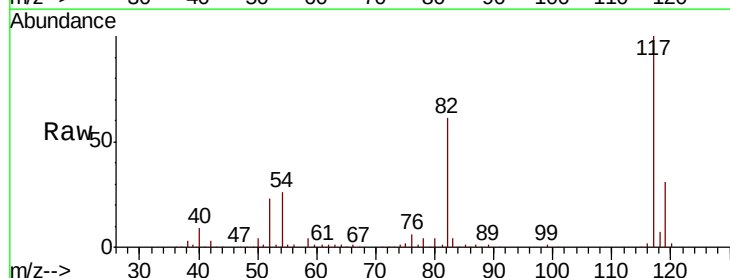
Tgt Ion: 117 Resp: 291766

Ion Ratio Lower Upper

117 100

82 61.5 48.6 73.0

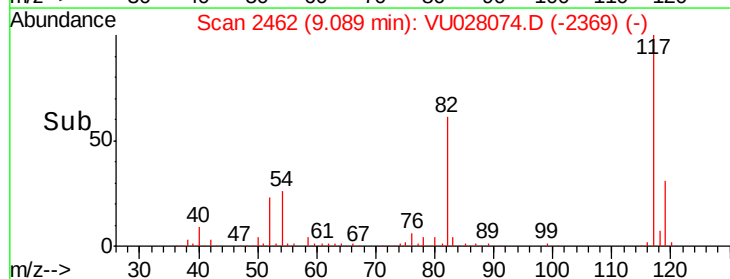
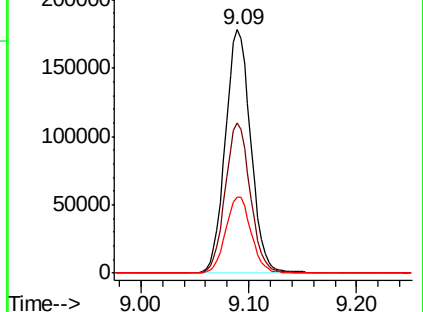
119 31.3 25.8 38.8

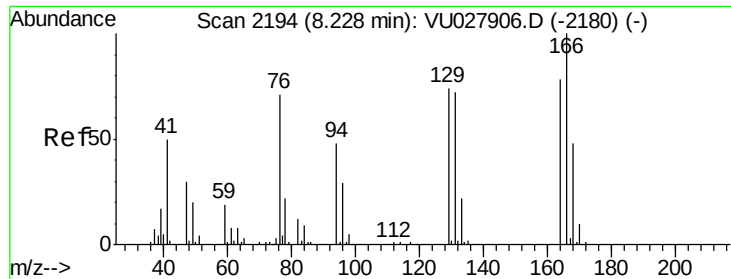


Abundance Ion 116.90 (116.60 to 117.60): VU027906.D (-2448) (-)

Ion 82.00 (81.70 to 82.70): VU027906.D (-2448) (-)

Ion 118.90 (118.60 to 119.60): VU027906.D (-2448) (-)





#64

Tetrachloroethene

Concen: 0.609 ug/l

RT: 8.22 min Scan# 2192

Delta R.T. -0.01 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

Instrument :

MSVOA_U

ClientSampleId :

W-1-S

Tot Ion:164 Resp: 1152

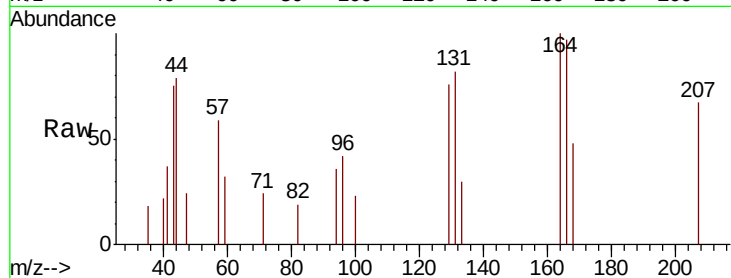
Ion Ratio Lower Upper

164 100

166 96.8 102.1 153.1#

129 76.3 75.9 113.9

131 81.6 73.0 109.6

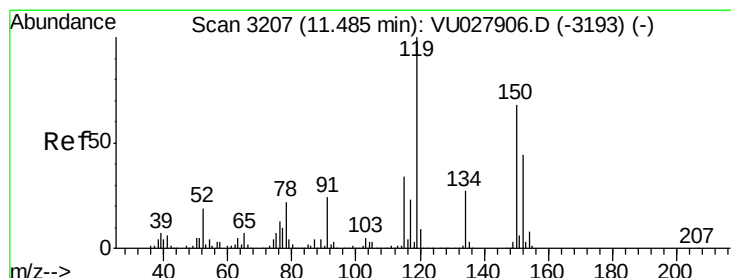
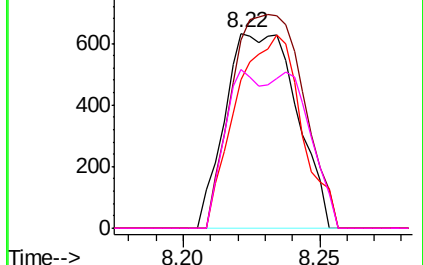
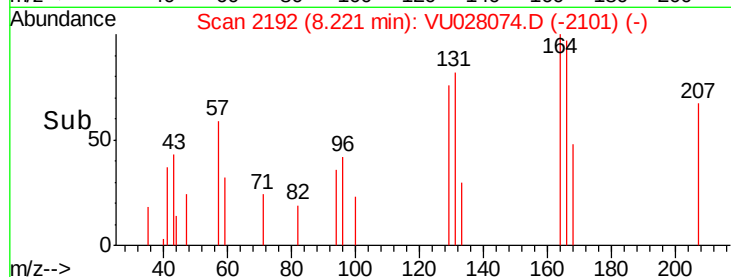


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

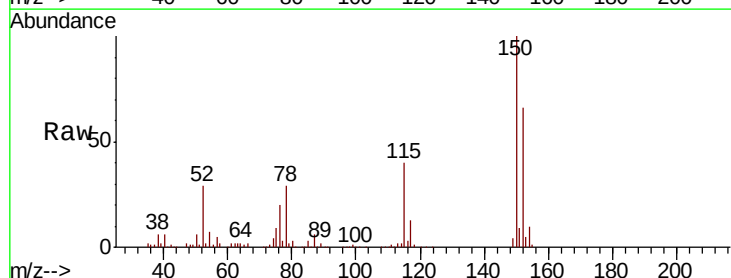
Tgt Ion:152 Resp: 115672

Ion Ratio Lower Upper

152 100

115 60.9 43.0 129.0

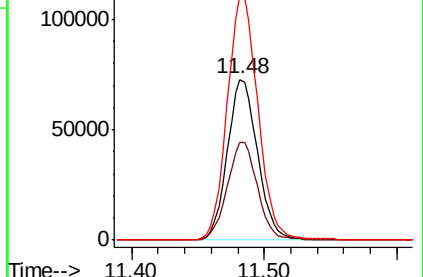
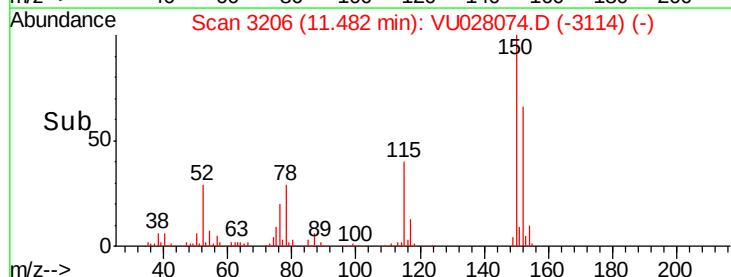
150 154.4 0.0 349.4

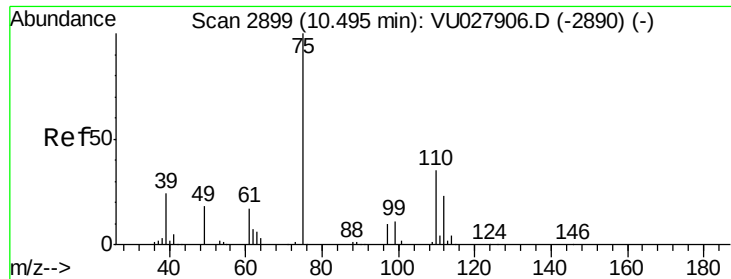


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.169 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.19 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

Instrument :

MSVOA_U

ClientSampled :

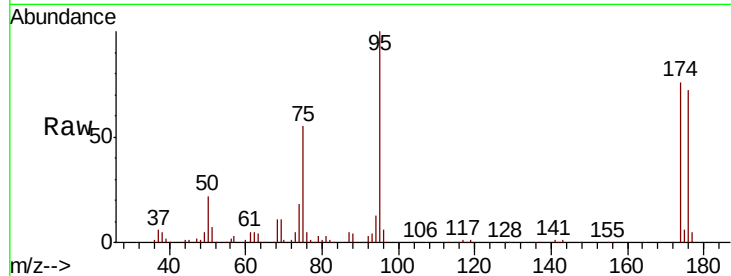
W-1-S

Tot Ion: 75 Resp: 73307

Ion Ratio Lower Upper

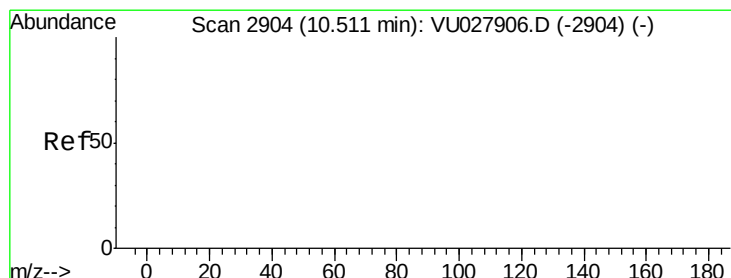
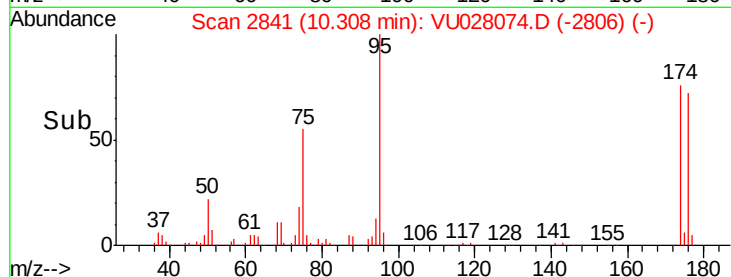
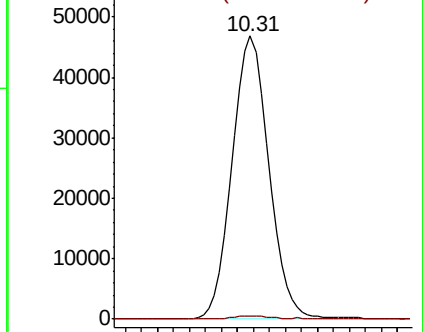
75 100

77 1.1 21.6 64.6#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0



#81

trans-1,4-Dichloro-2-butene

Concen: 57.808 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028074.D

Acq: 12 Nov 2018 18:58

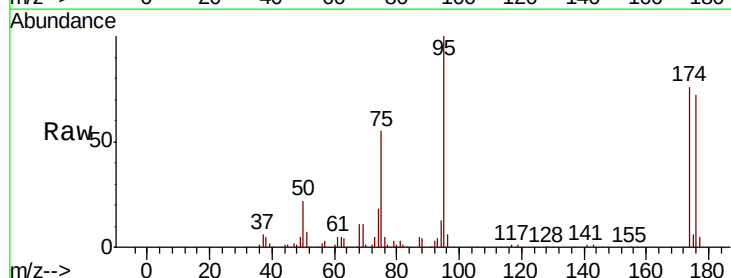
Tgt Ion: 75 Resp: 73307

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

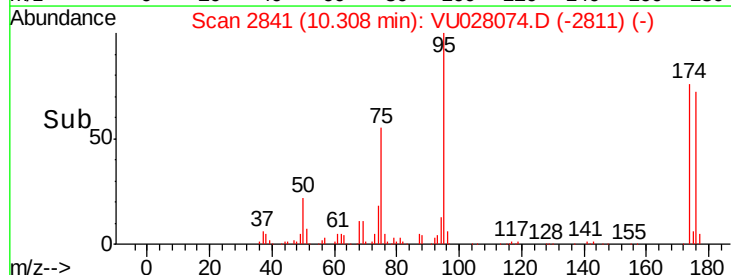
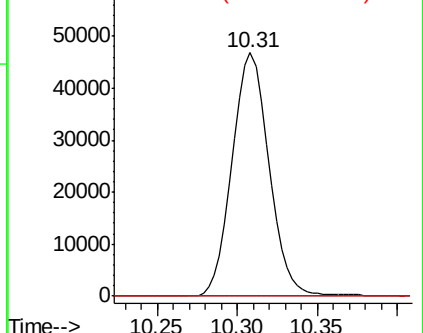
89 0.0 0.0 0.0

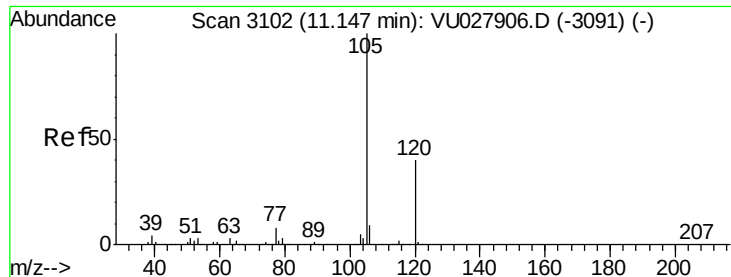


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 88.90 (88.60 to 89.60): VU0

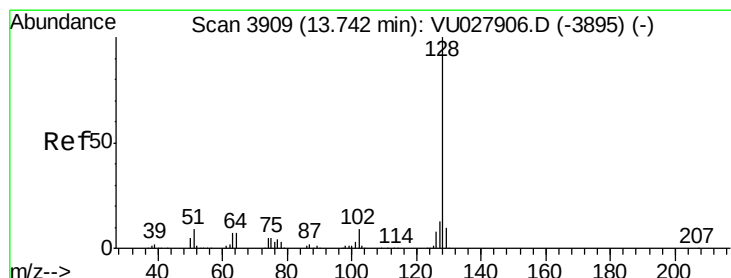
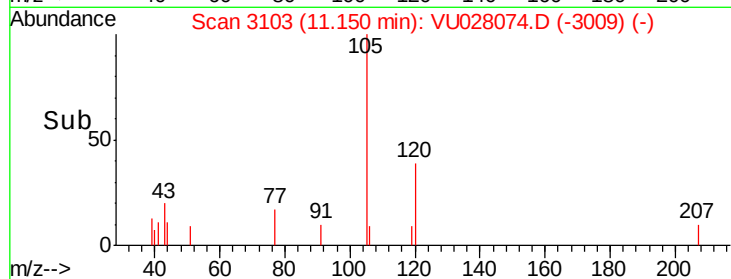
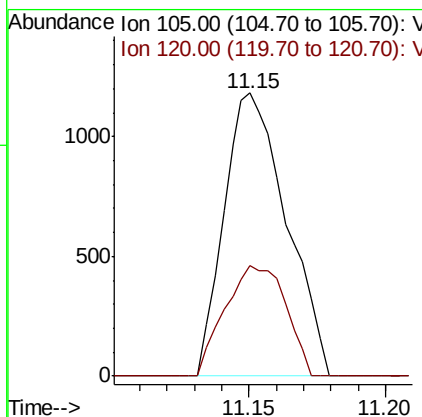
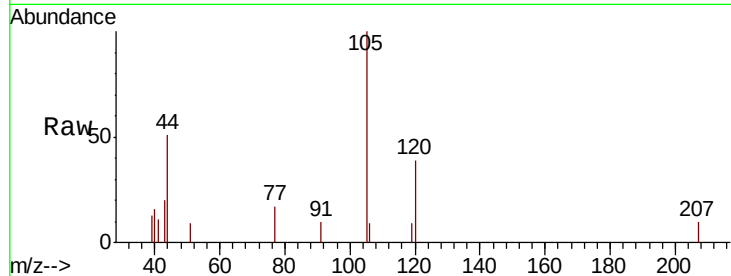




#84
 1,2,4-Trimethylbenzene
 Concen: 0.250 ug/l
 RT: 11.15 min Scan# 3103
 Delta R.T. 0.00 min
 Lab File: VU028074.D
 Acq: 12 Nov 2018 18:58

Instrument :
 MSVOA_U
 ClientSampleId :
 W-1-S

Tot Ion:105 Resp: 1872
 Ion Ratio Lower Upper
 105 100
 120 38.0 22.1 66.1



#95
 Naphthalene
 Concen: 1.068 ug/l
 RT: 13.75 min Scan# 3911
 Delta R.T. 0.01 min
 Lab File: VU028074.D
 Acq: 12 Nov 2018 18:58

Tgt Ion:128 Resp: 11819
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.4 15.6
 129 8.3 8.3 12.5#

