

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111218\
 Data File : VU028075.D
 Acq On : 12 Nov 2018 19:22
 Operator : MD/SY
 Sample : J5887-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 W-1-D

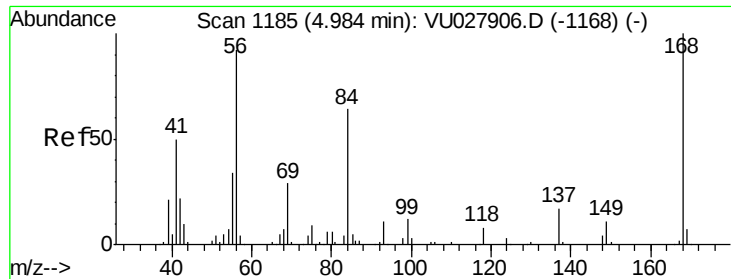
Quant Time: Nov 13 02:47:52 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 02 02:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	163235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	315516	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	286396	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	112304	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	146921	60.54	ug/l	0.00
Spiked Amount			Recovery	=	121.08%	
35) Dibromofluoromethane	4.88	113	105029	52.79	ug/l	0.00
Spiked Amount			Recovery	=	105.58%	
50) Toluene-d8	7.57	98	409216	53.25	ug/l	0.00
Spiked Amount			Recovery	=	106.50%	
62) 4-Bromofluorobenzene	10.31	95	135257	47.72	ug/l	0.00
Spiked Amount			Recovery	=	95.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.84	59	1190	1.852	ug/l #	73
13) Acrolein	2.20	56	41	Below Cal	#	1
14) Allyl chloride	2.70	41	13337	3.190	ug/l #	27
16) Acetone	2.32	43	9524	6.325	ug/l	98
18) Methyl Acetate	2.62	43	7994	1.930	ug/l	98
20) Methylene Chloride	2.70	84	246387	112.072	ug/l	95
25) 2-Butanone	4.28	43	2484	1.037	ug/l #	80
29) Tetrahydrofuran	4.66	42	773	0.483	ug/l #	57
31) Cyclohexane	4.99	56	4104	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	15396	4.659	ug/l #	49
38) Carbon Tetrachloride	4.99	117	17580	6.003	ug/l #	16
42) 1,2-Dichloroethane	5.55	62	764	0.213	ug/l #	76
43) Isopropyl Acetate	5.55	43	212116	27.962	ug/l	99
48) Methyl methacrylate	6.54	41	8204	2.207	ug/l #	26
54) cis-1,3-Dichloropropene	7.42	75	1051	0.264	ug/l #	58
60) Dibromochloromethane	8.23	129	1061	0.464	ug/l #	10
64) Tetrachloroethene	8.23	164	1082	0.583	ug/l #	82
76) 1,2,3-Trichloropropane	10.31	75	71594	23.307	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	71594	58.149	ug/l #	100
95) Naphthalene	13.75	128	3790	0.231	ug/l #	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

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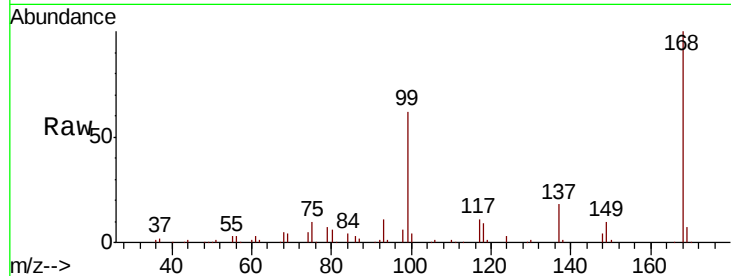
W-1-D

Tot Ion:168 Resp: 163235

Ion Ratio Lower Upper

168 100

99 62.3 47.9 71.9



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

Ion 98.90 (98.60 to 99.60): VU028075.D (-1092) (-)

4.98

80000

60000

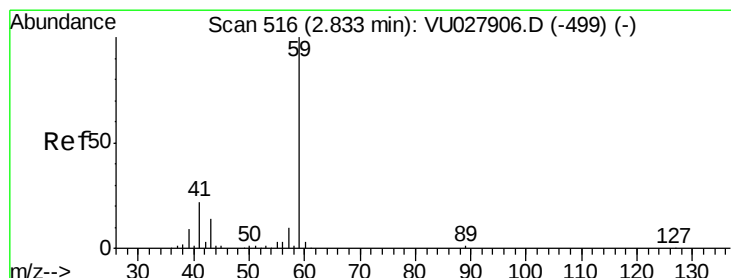
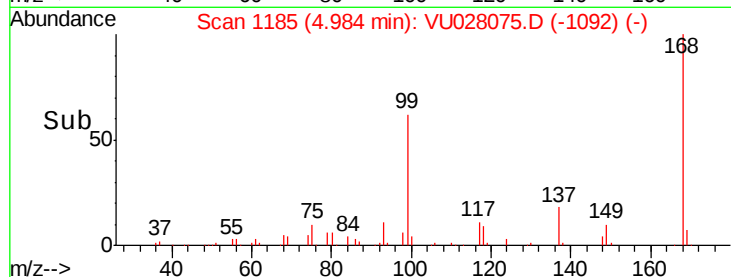
40000

20000

0

Time-->

4.90 4.95 5.00 5.05



#11

Tert butyl alcohol

Concen: 1.852 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU028075.D

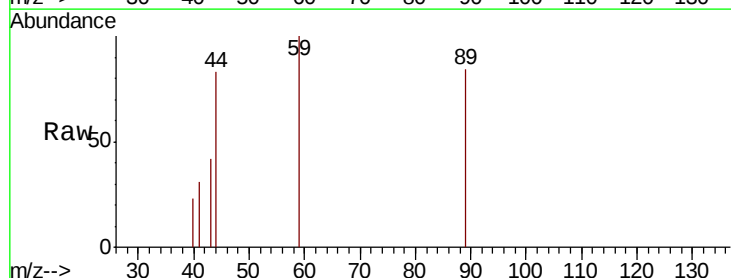
Acq: 12 Nov 2018 19:22

Tgt Ion: 59 Resp: 1190

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU027906.D (-499) (-)

Ion 57.00 (56.70 to 57.70): VU028075.D (-423) (-)

2.84

600

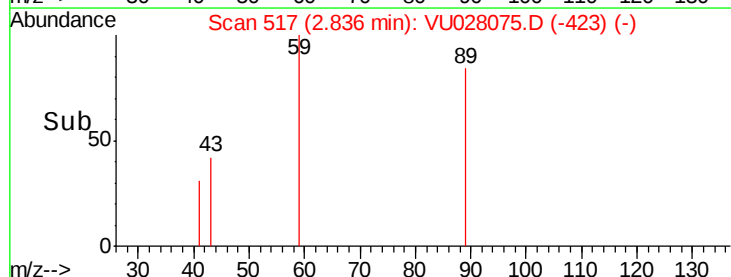
400

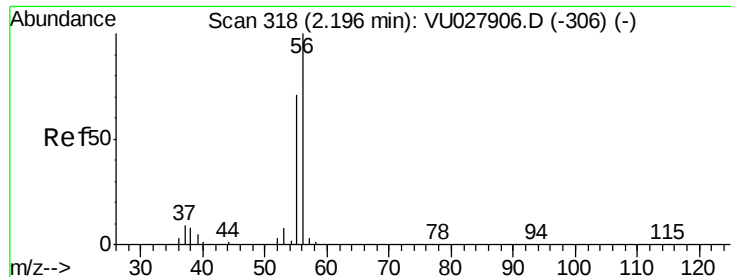
200

0

Time-->

2.80 2.85





#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 320

Delta R.T. 0.01 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

Instrument :

MSVOA_U

ClientSampleId :

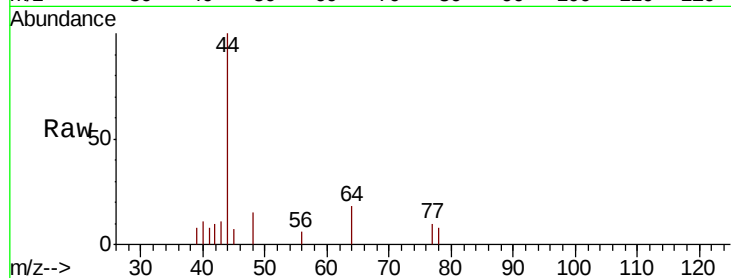
W-1-D

Tot Ion: 56 Resp: 41

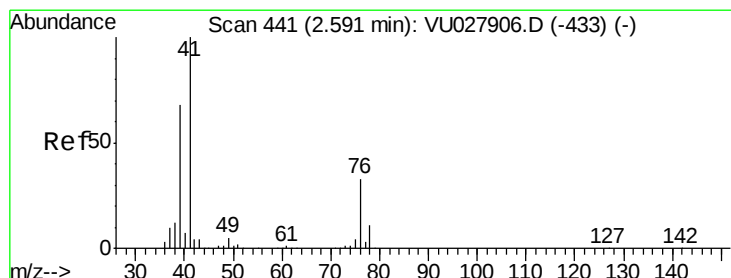
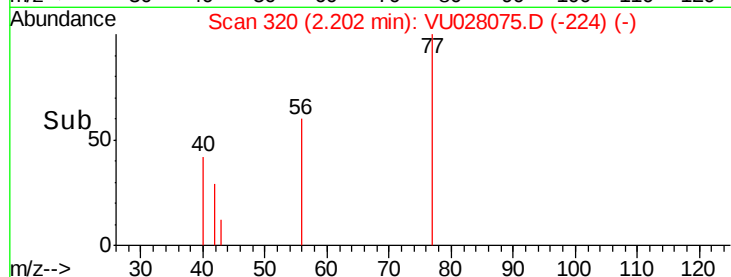
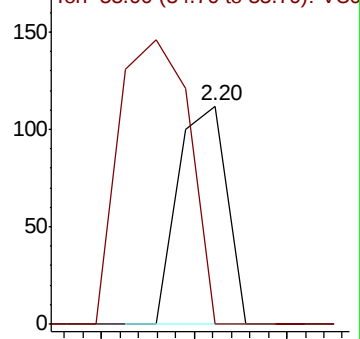
Ion Ratio Lower Upper

56 100

55 187.8 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU028075.D (-224) (-)



#14

Allyl chloride

Concen: 3.190 ug/l

RT: 2.70 min Scan# 476

Delta R.T. 0.11 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

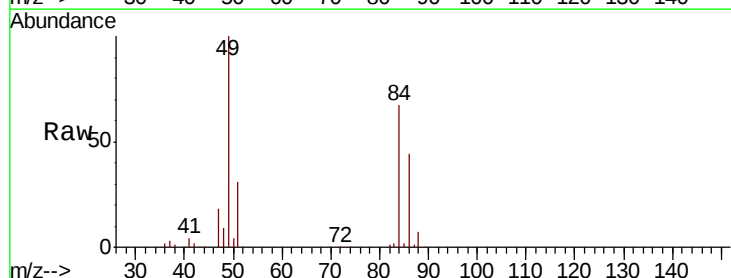
Tgt Ion: 41 Resp: 13337

Ion Ratio Lower Upper

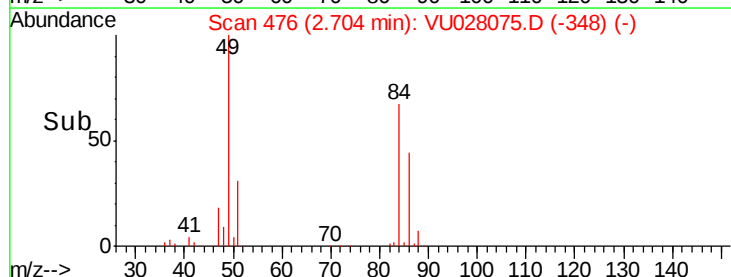
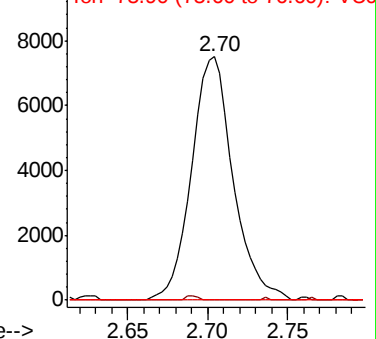
41 100

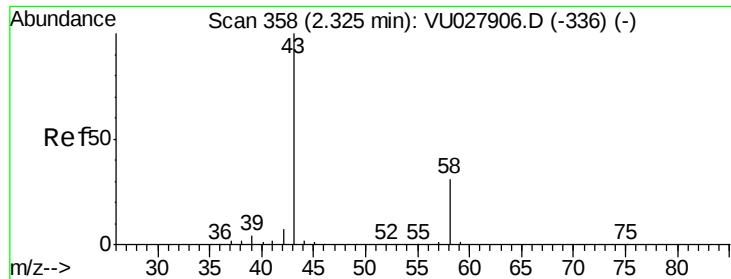
39 0.6 51.9 77.9#

76 0.0 23.8 35.6#



Abundance Ion 41.00 (40.70 to 41.70): VU028075.D (-348) (-)





#16

Acetone

Concen: 6.325 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

Instrument :

MSVOA_U

ClientSampled :

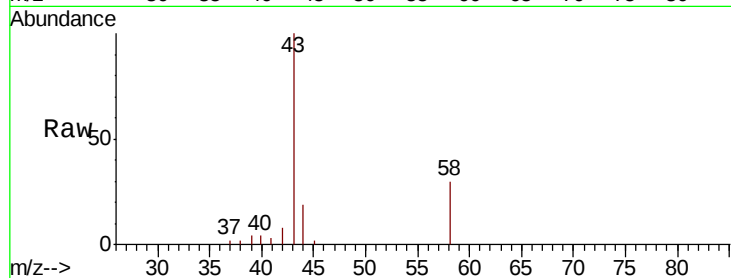
W-1-D

Tot Ion: 43 Resp: 9524

Ion Ratio Lower Upper

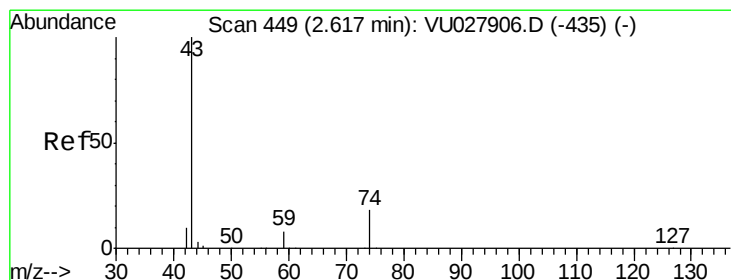
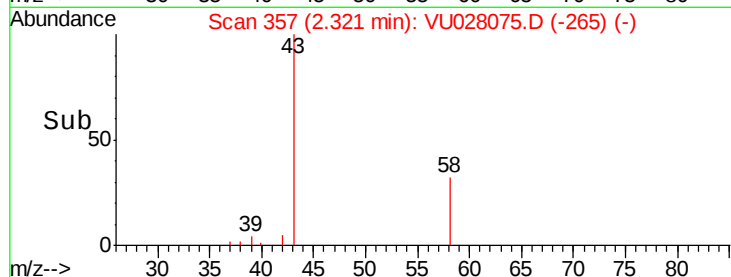
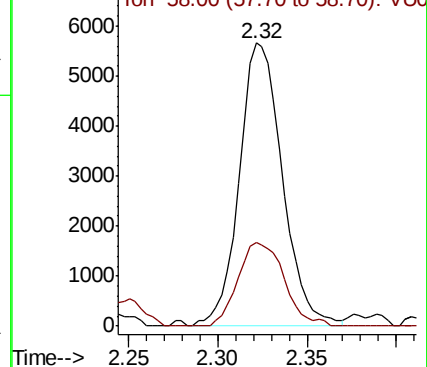
43 100

58 29.8 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#18

Methyl Acetate

Concen: 1.930 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU028075.D

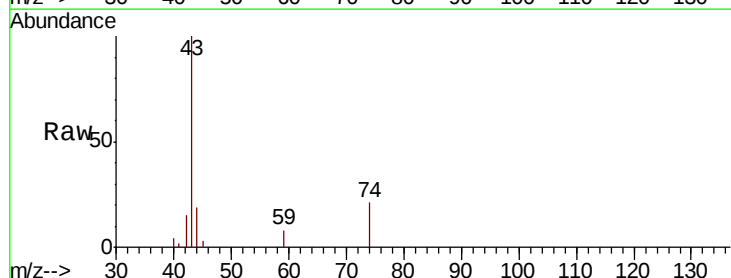
Acq: 12 Nov 2018 19:22

Tgt Ion: 43 Resp: 7994

Ion Ratio Lower Upper

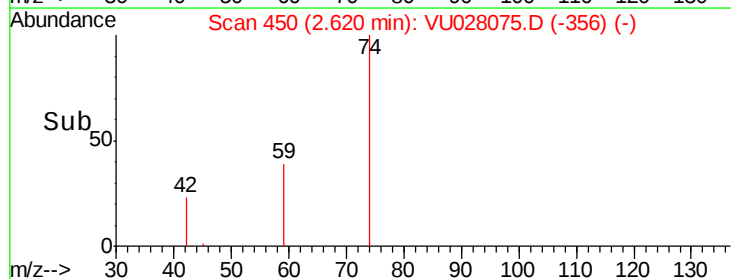
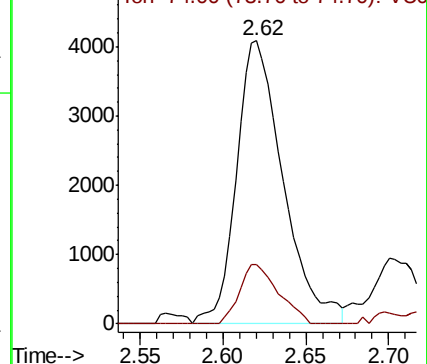
43 100

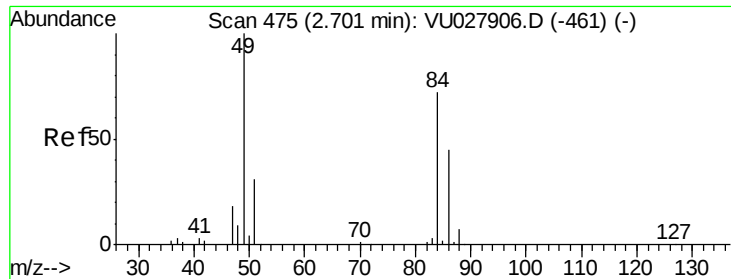
74 17.5 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0

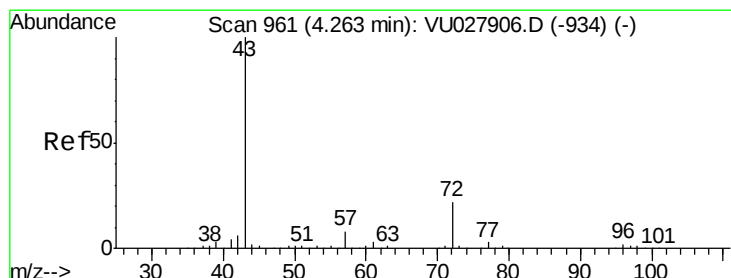
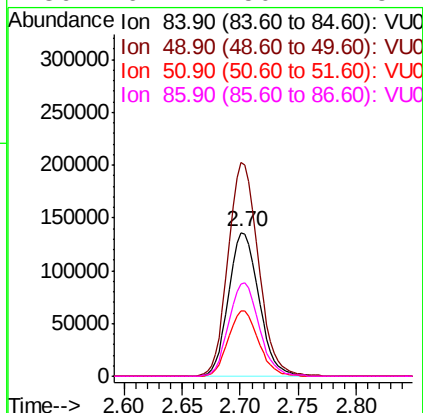
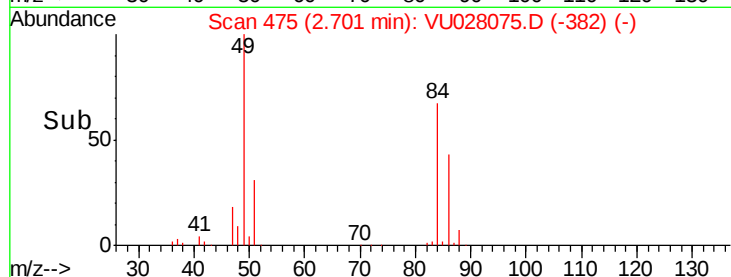
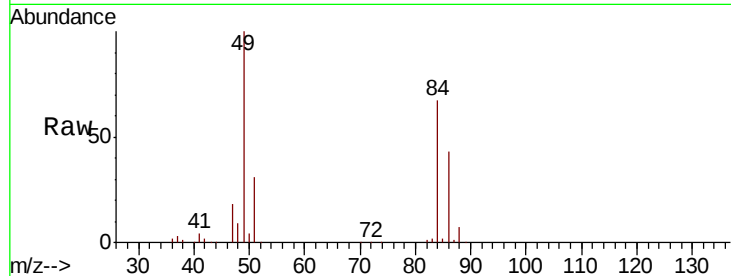




#20
Methvlene Chloride
Concen: 112.072 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

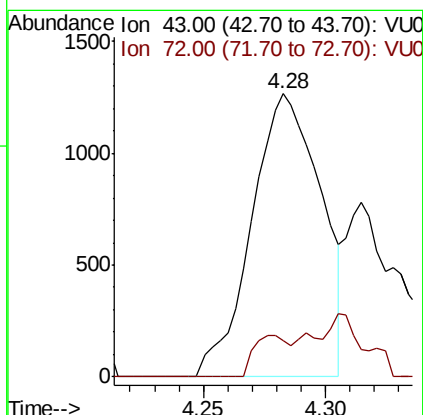
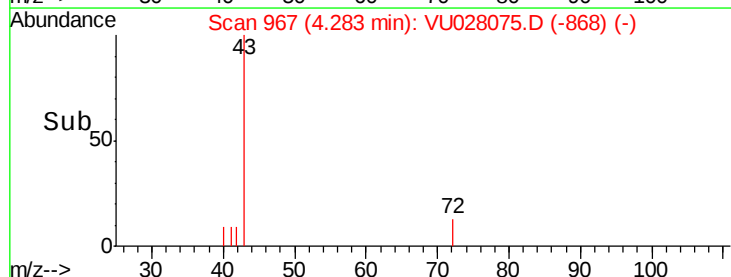
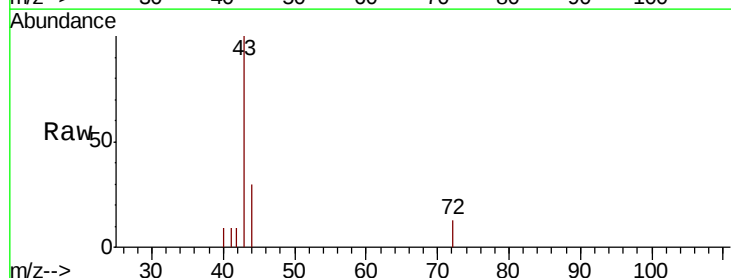
Instrument :
MSVOA_U
ClientSampleId :
W-1-D

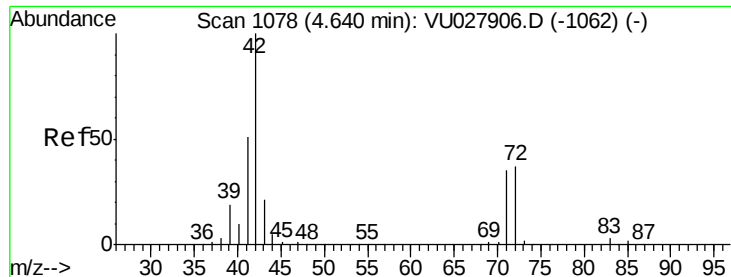
Tot Ion	84	Resp	246387
Ion	Ratio	Lower	Upper
84	100		
49	148.6	111.6	167.4
51	45.7	34.8	52.2
86	64.2	50.1	75.1



#25
2-Butanone
Concen: 1.037 ug/l
RT: 4.28 min Scan# 967
Delta R.T. 0.02 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

Tgt Ion	43	Resp	2484
Ion	Ratio	Lower	Upper
43	100		
72	12.7	17.7	26.5#

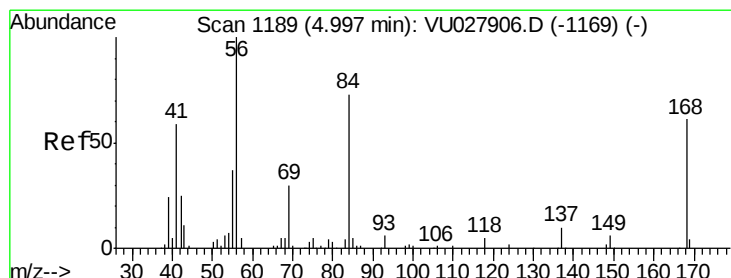
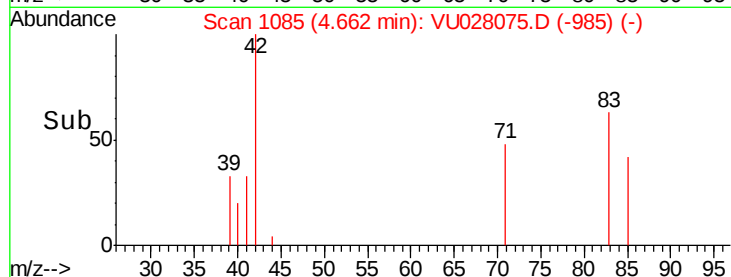
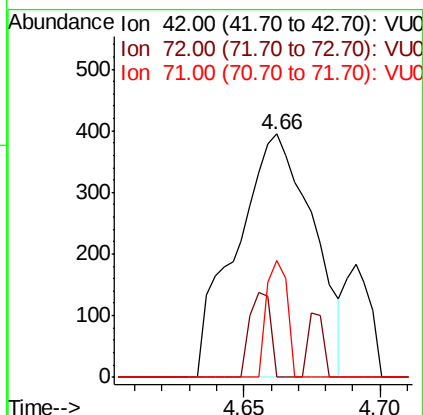
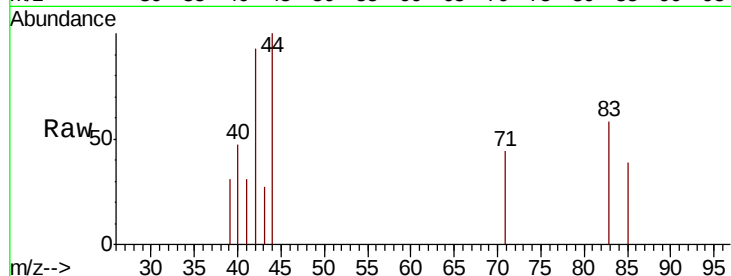




#29
Tetrahydrofuran
Concen: 0.483 ug/l
RT: 4.66 min Scan# 1085
Delta R.T. 0.02 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

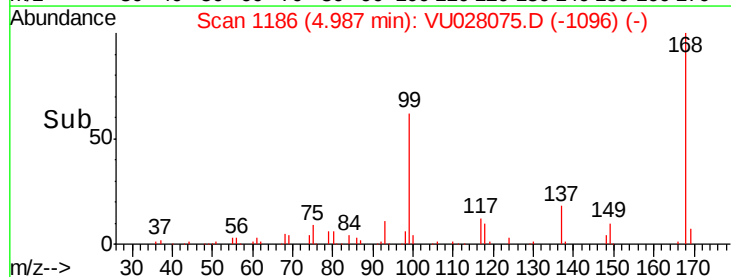
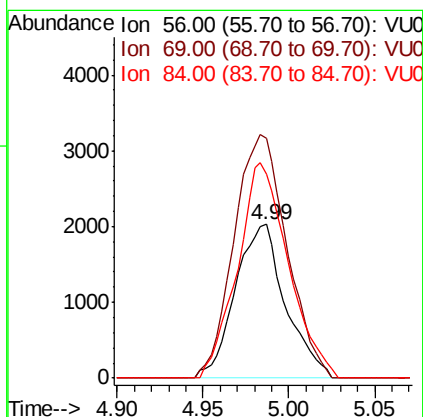
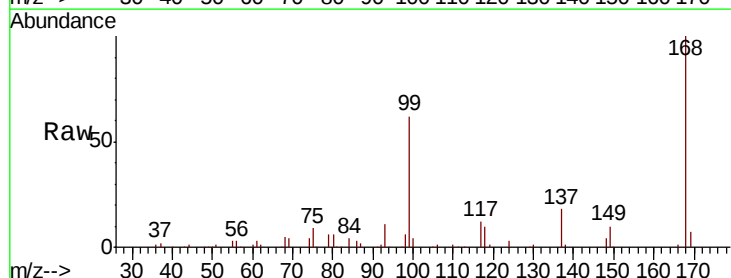
Instrument :
MSVOA_U
ClientSampled :
W-1-D

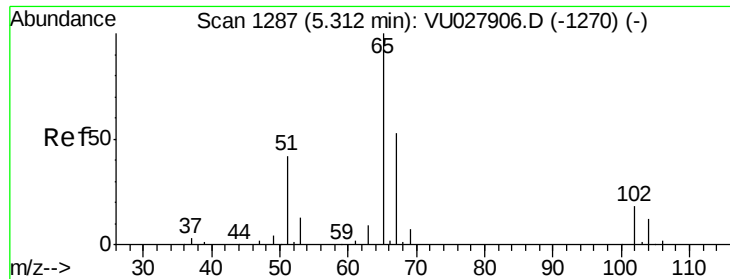
Tot Ion: 42 Resp: 773
Ion Ratio Lower Upper
42 100
72 9.2 29.4 44.0#
71 12.5 27.9 41.9#



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1186
Delta R.T. -0.01 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

Tgt Ion: 56 Resp: 4104
Ion Ratio Lower Upper
56 100
69 156.4 23.7 35.5#
84 133.2 58.2 87.4#

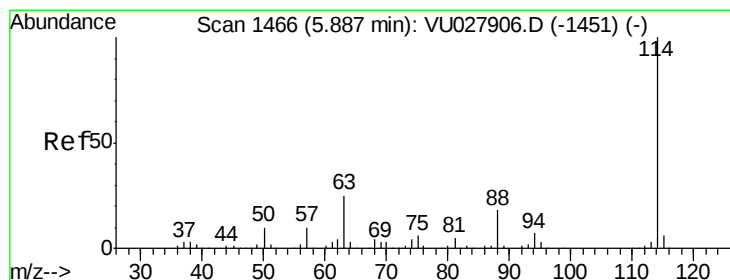
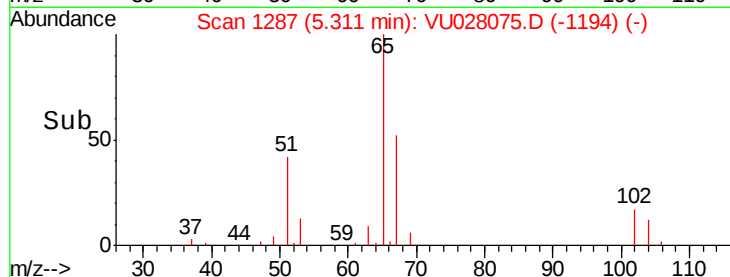
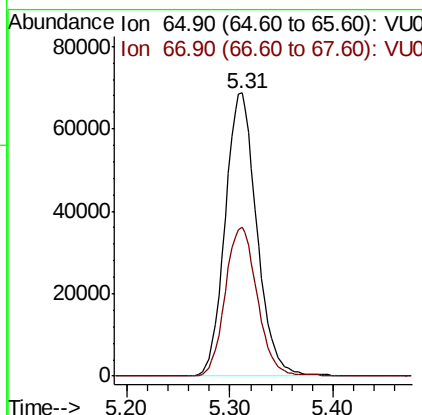
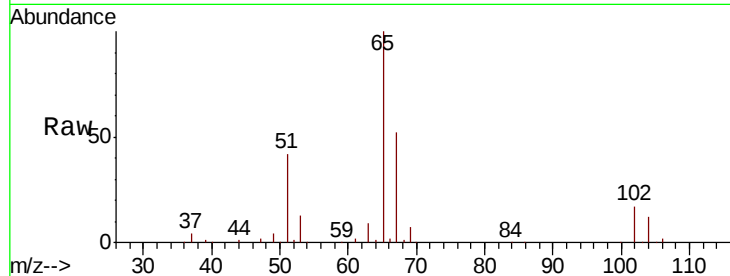




#33
 1,2-Dichloroethane-d4
 Concen: 60.539 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU028075.D
 Acq: 12 Nov 2018 19:22

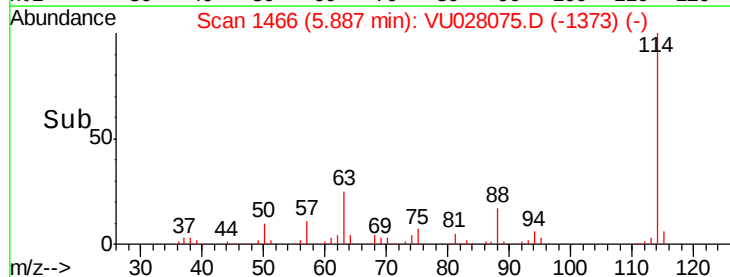
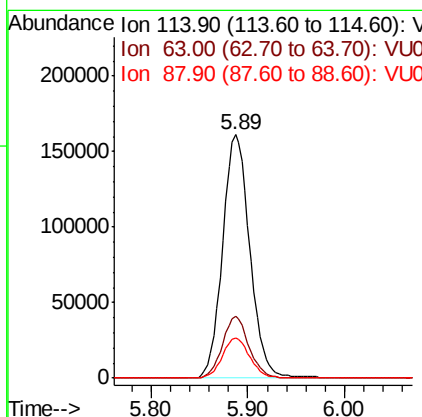
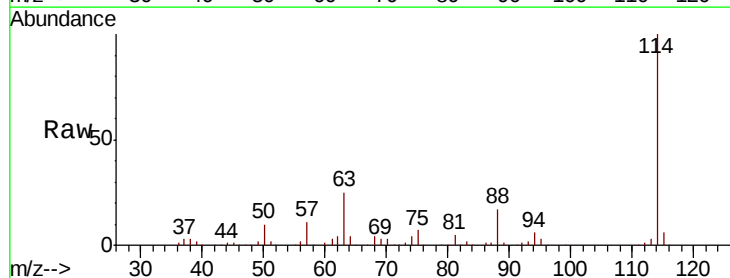
Instrument :
 MSVOA_U
 ClientSampleId :
 W-1-D

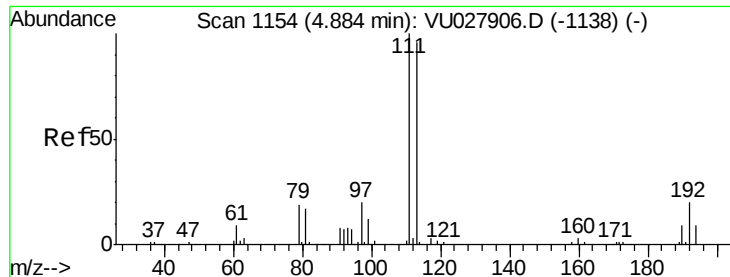
Tot Ion: 65 Resp: 146921
 Ion Ratio Lower Upper
 65 100
 67 53.2 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028075.D
 Acq: 12 Nov 2018 19:22

Tgt Ion: 114 Resp: 315516
 Ion Ratio Lower Upper
 114 100
 63 25.4 0.0 50.8
 88 16.6 0.0 35.8

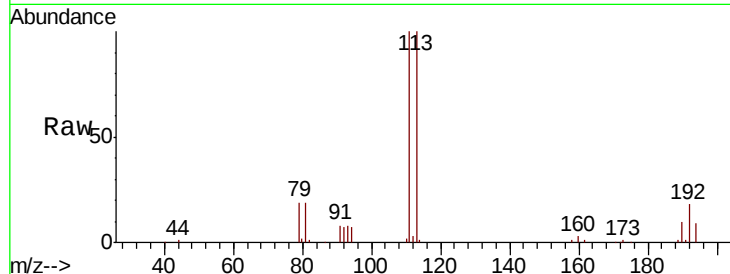




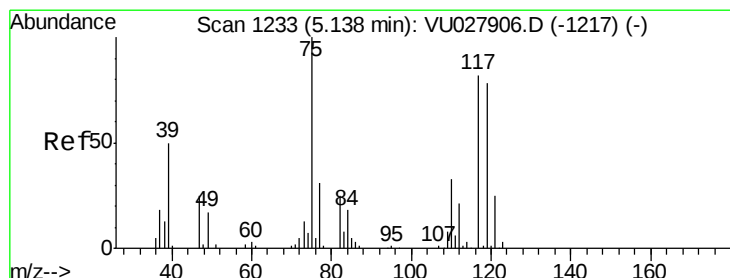
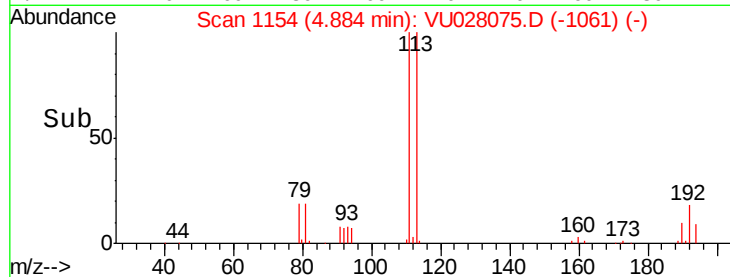
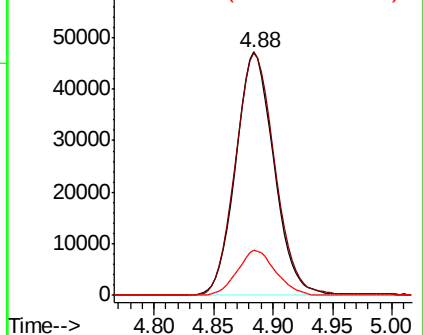
#35
 Dibromofluoromethane
 Concen: 52.795 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028075.D
 Acq: 12 Nov 2018 19:22

Instrument :
 MSVOA_U
 ClientSampleId :
 W-1-D

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.0	124.6
192	18.6	15.6	23.4

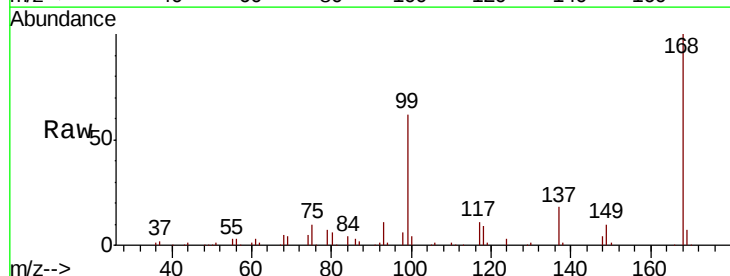


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

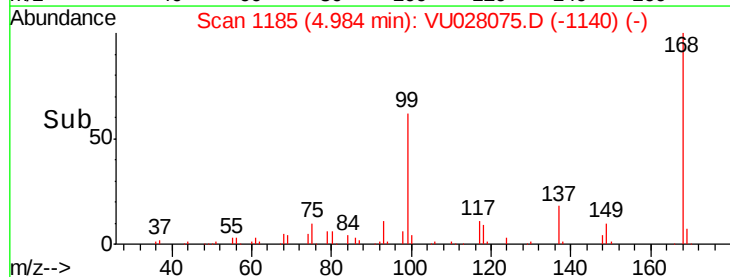
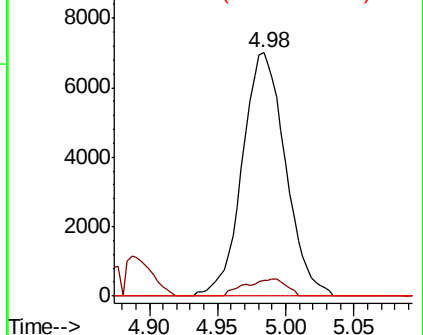


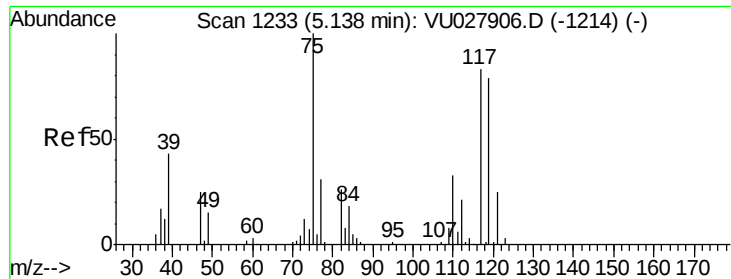
#36
 1,1-Dichloropropene
 Concen: 4.659 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028075.D
 Acq: 12 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.6	16.5	49.5#
77	0.0	24.9	37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 6.003 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. -0.15 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

Instrument :

MSVOA_U

ClientSampled :

W-1-D

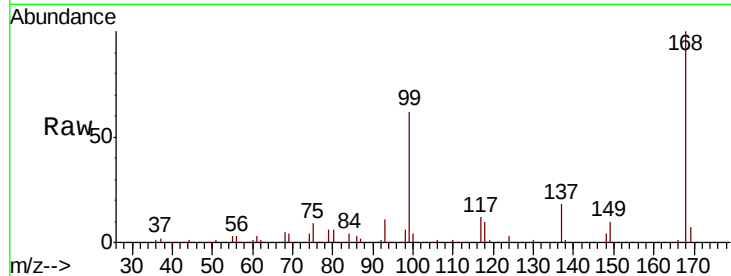
Tot Ion:117 Resp: 17580

Ion Ratio Lower Upper

117 100

119 4.8 76.0 114.0#

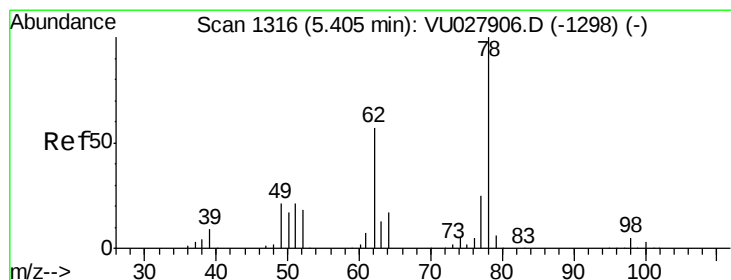
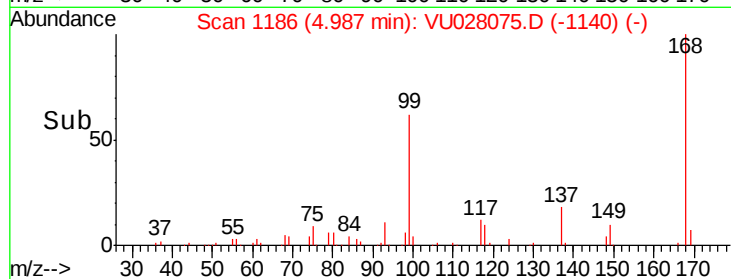
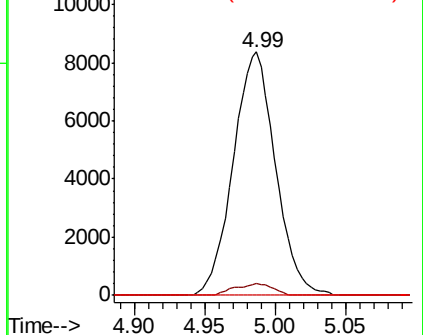
121 0.0 24.5 36.7#



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



#42

1,2-Dichloroethane

Concen: 0.213 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.14 min

Lab File: VU028075.D

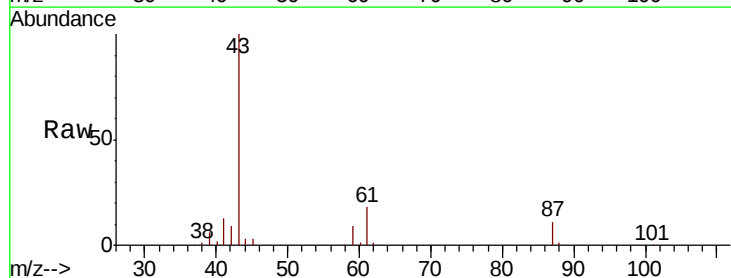
Acq: 12 Nov 2018 19:22

Tgt Ion: 62 Resp: 764

Ion Ratio Lower Upper

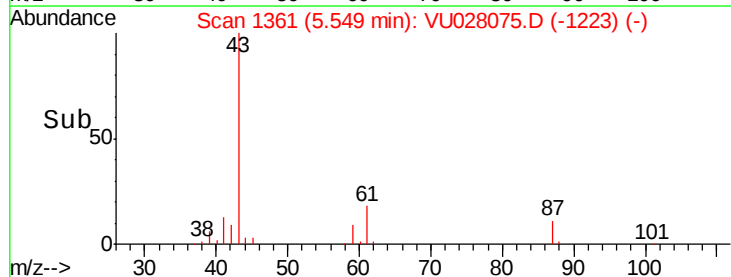
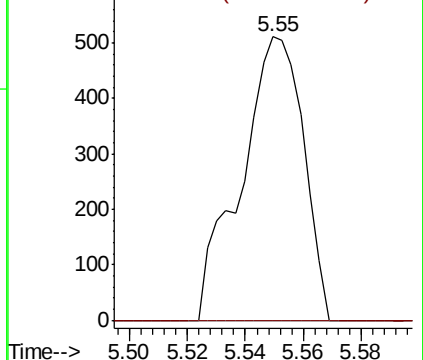
62 100

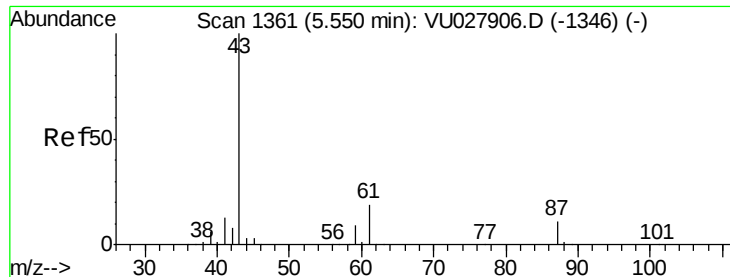
98 0.0 0.0 17.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 27.962 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

Instrument :

MSVOA_U

ClientSampled :

W-1-D

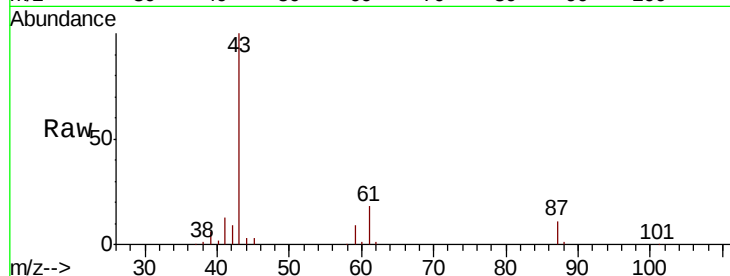
Tot Ion: 43 Resp: 212116

Ion Ratio Lower Upper

43 100

61 18.3 15.0 22.4

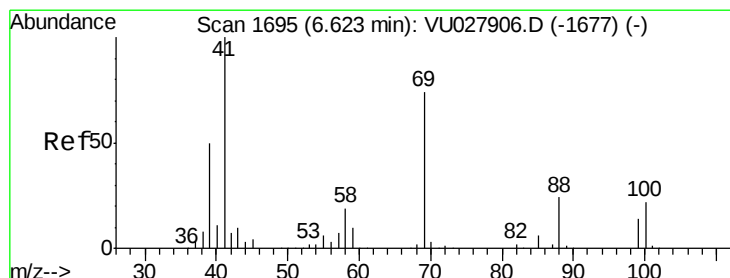
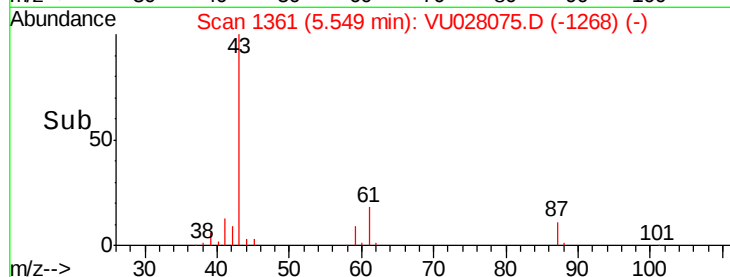
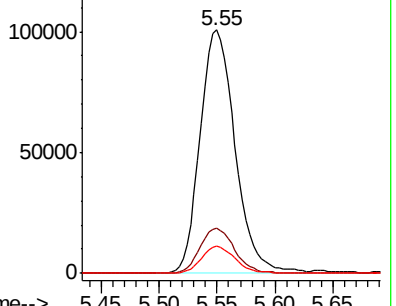
87 10.7 8.6 12.8



Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1346) (-)

Ion 61.00 (60.70 to 61.70): VU027906.D (-1346) (-)

Ion 87.00 (86.70 to 87.70): VU027906.D (-1346) (-)



#48

Methyl methacrylate

Concen: 2.207 ug/l

RT: 6.54 min Scan# 1669

Delta R.T. -0.08 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

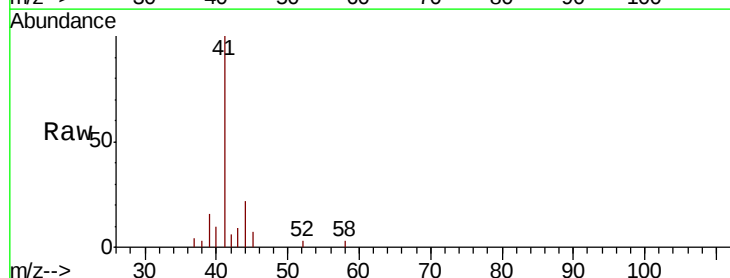
Tgt Ion: 41 Resp: 8204

Ion Ratio Lower Upper

41 100

69 0.0 59.8 89.8#

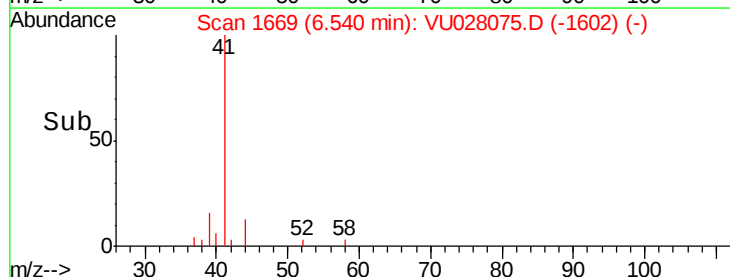
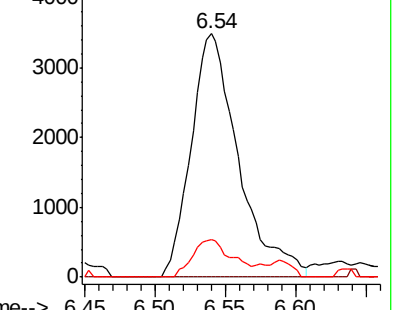
39 12.8 40.0 60.0#

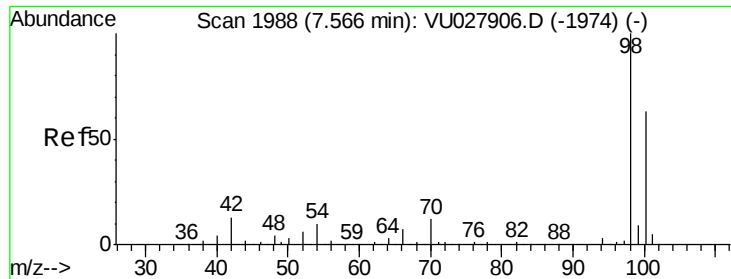


Abundance Ion 41.00 (40.70 to 41.70): VU027906.D (-1677) (-)

Ion 69.00 (68.70 to 69.70): VU027906.D (-1677) (-)

Ion 39.00 (38.70 to 39.70): VU027906.D (-1677) (-)





#50

Toluene-d8

Concen: 53.250 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

Instrument :

MSVOA_U

ClientSampleId :

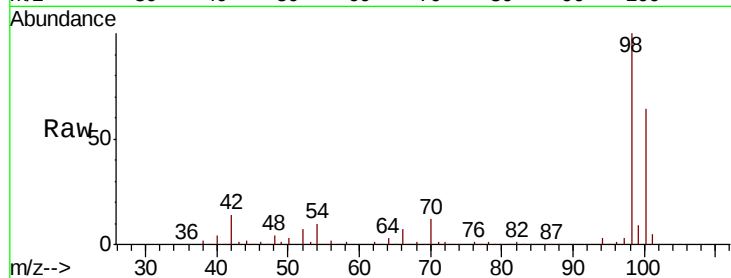
W-1-D

Tot Ion: 98 Resp: 409216

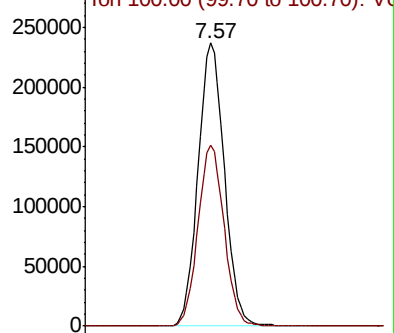
Ion Ratio Lower Upper

98 100

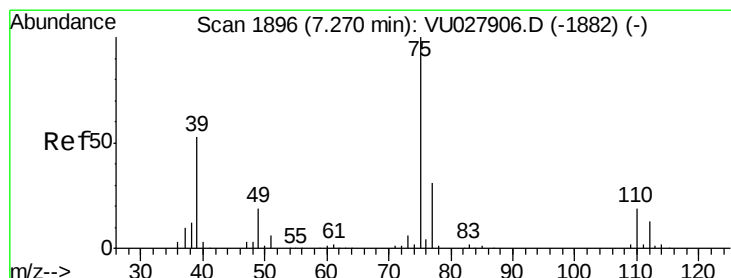
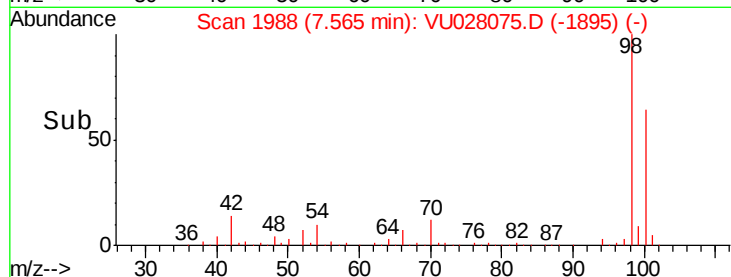
100 63.3 50.1 75.1



Abundance Ion 98.00 (97.70 to 98.70): VU027906.D (-1974) (-)



Time-->



#54

cis-1,3-Dichloropropene

Concen: 0.264 ug/l

RT: 7.42 min Scan# 1944

Delta R.T. 0.15 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

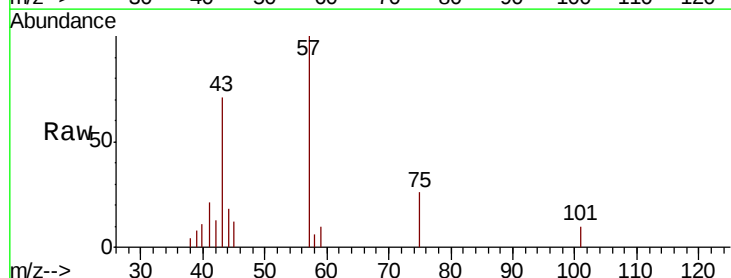
Tgt Ion: 75 Resp: 1051

Ion Ratio Lower Upper

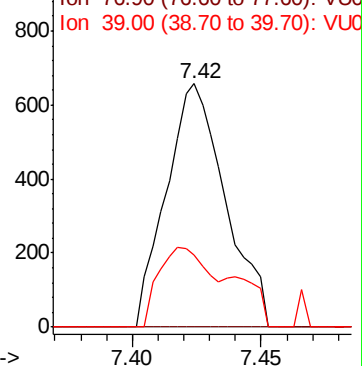
75 100

77 0.0 24.6 37.0#

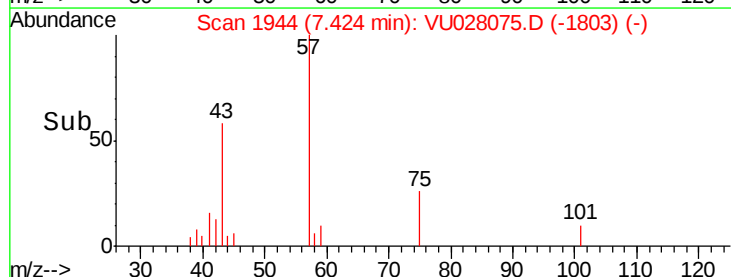
39 29.8 42.6 64.0#

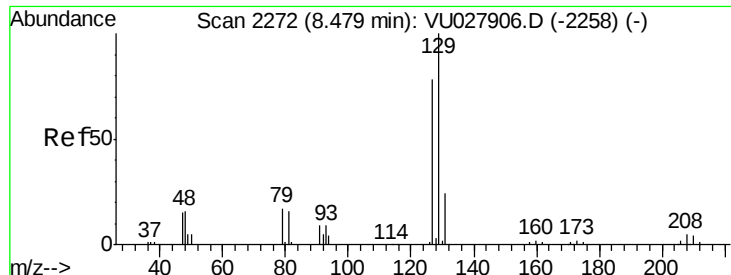


Abundance Ion 74.90 (74.60 to 75.60): VU027906.D (-1882) (-)



Time-->

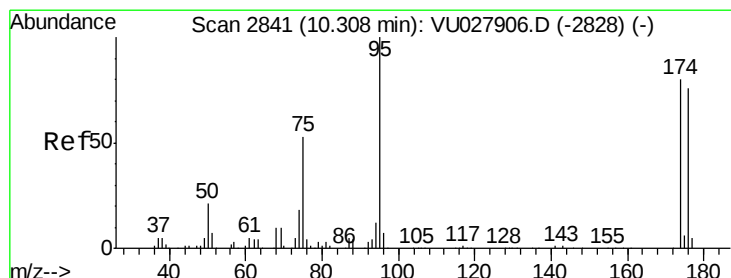
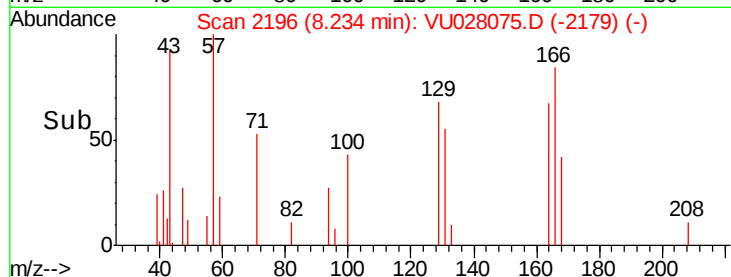
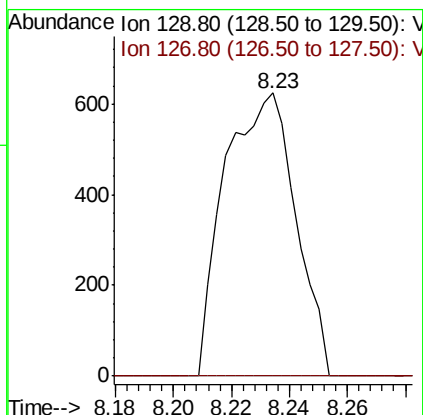
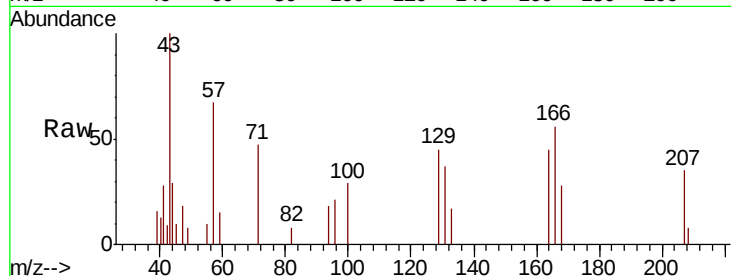




#60
Dibromochloromethane
Concen: 0.464 ug/l
RT: 8.23 min Scan# 2196
Delta R.T. -0.24 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

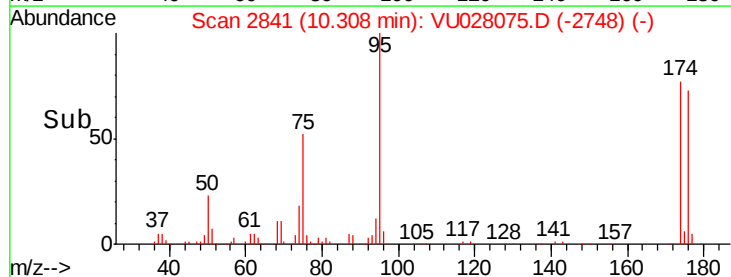
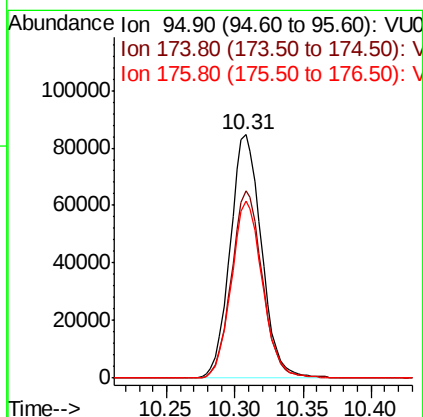
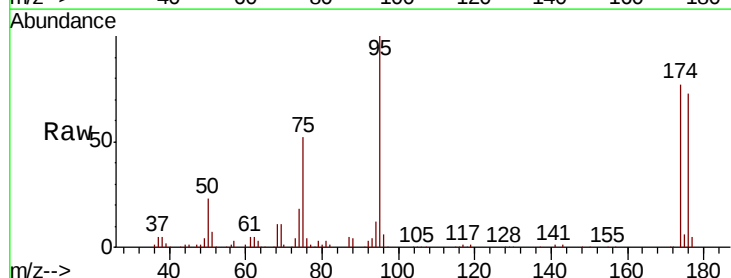
Instrument :
MSVOA_U
ClientSampleId :
W-1-D

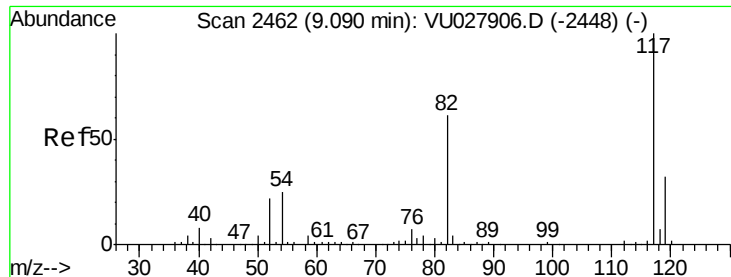
Tot Ion:129 Resp: 1061
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#



#62
4-Bromofluorobenzene
Concen: 47.718 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

Tgt Ion: 95 Resp: 135257
Ion Ratio Lower Upper
95 100
174 75.9 0.0 156.4
176 72.1 0.0 150.8

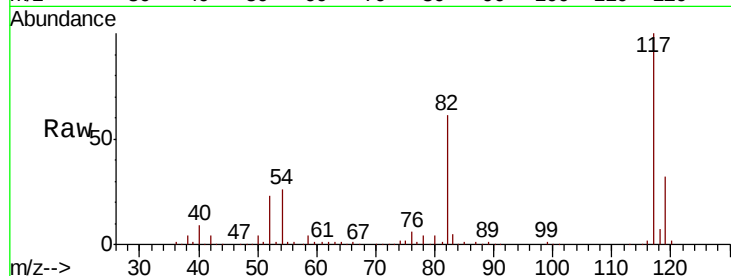




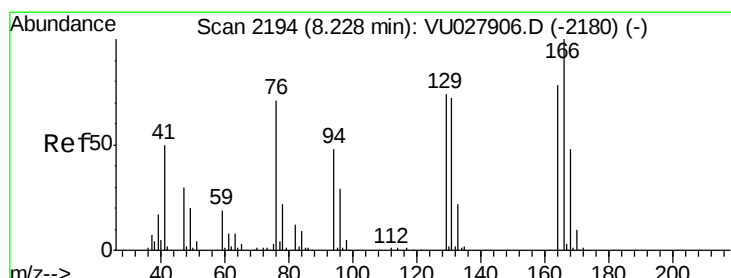
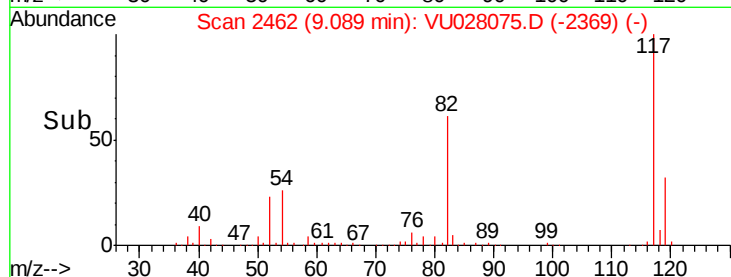
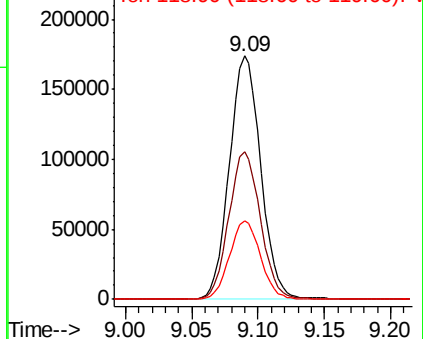
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

Instrument :
MSVOA_U
ClientSampleId :
W-1-D

Tot Ion:117 Resp: 286396
Ion Ratio Lower Upper
117 100
82 60.8 48.6 73.0
119 32.4 25.8 38.8

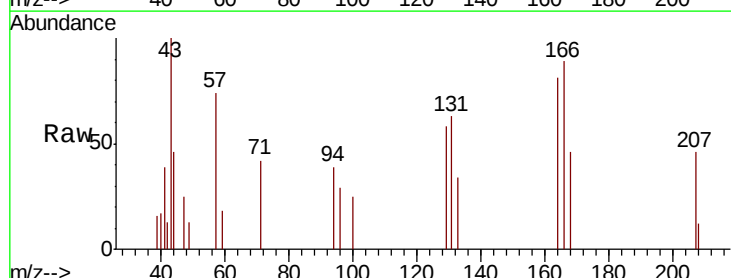


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU028075.D (-2369) (-)
Ion 118.90 (118.60 to 119.60): V

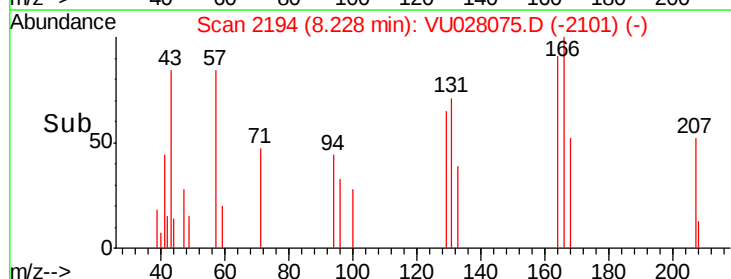
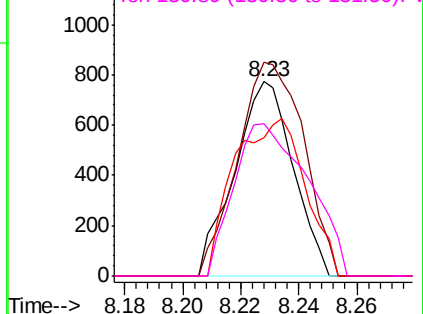


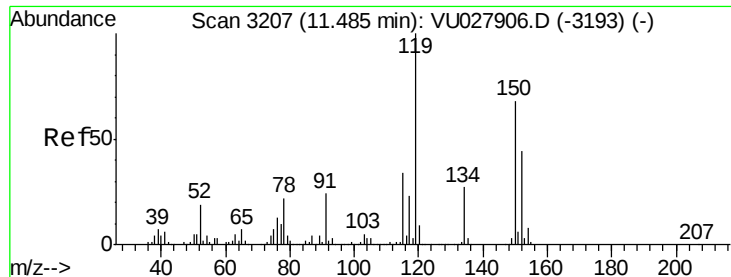
#64
Tetrachloroethene
Concen: 0.583 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.00 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

Tgt Ion:164 Resp: 1082
Ion Ratio Lower Upper
164 100
166 109.8 102.1 153.1
129 71.3 75.9 113.9#
131 78.3 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



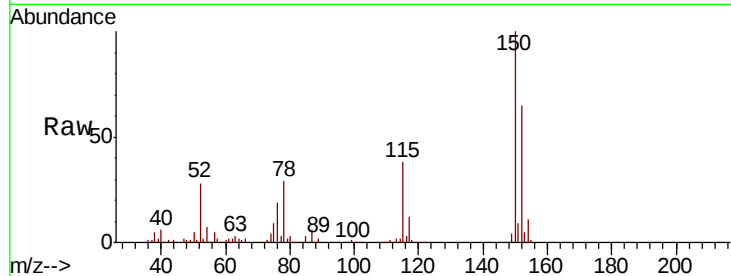


#72

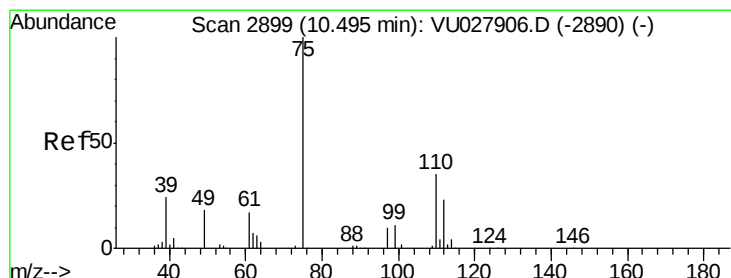
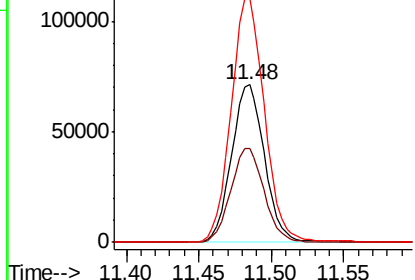
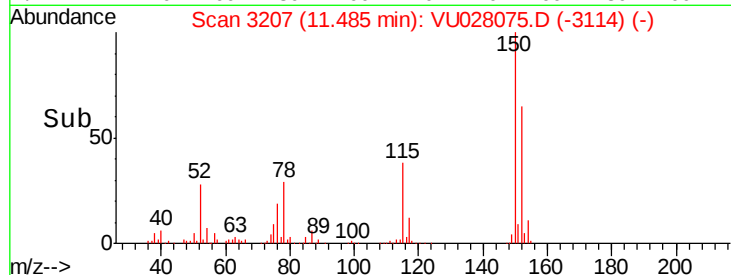
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

Instrument :
MSVOA_U
ClientSampleId :
W-1-D

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.3	43.0	129.0
150	156.5	0.0	349.4



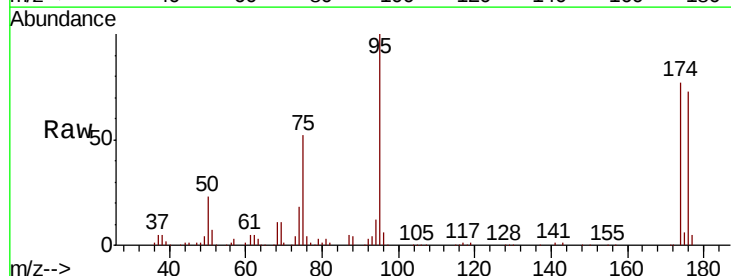
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



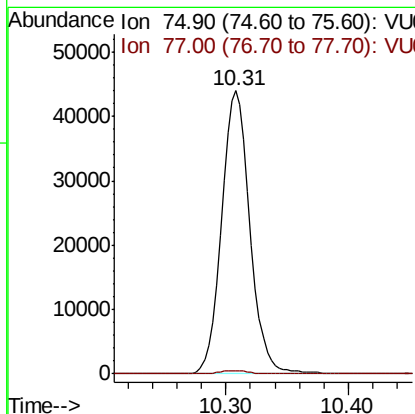
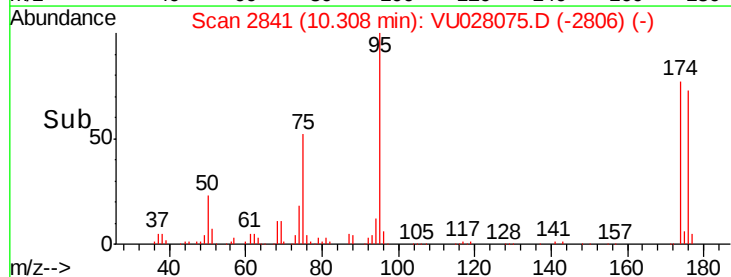
#76

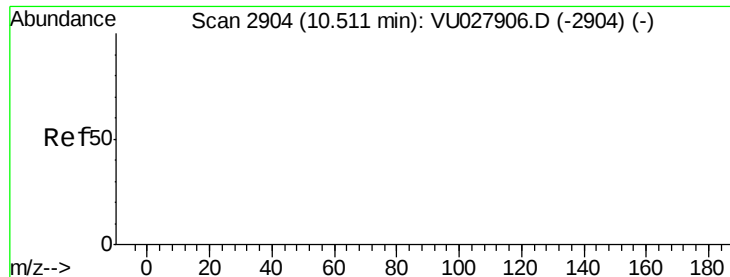
1,2,3-Trichloropropane
Concen: 23.307 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU028075.D
Acq: 12 Nov 2018 19:22

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.2	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: 58.149 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

Instrument :

MSVOA_U

ClientSampleId :

W-1-D

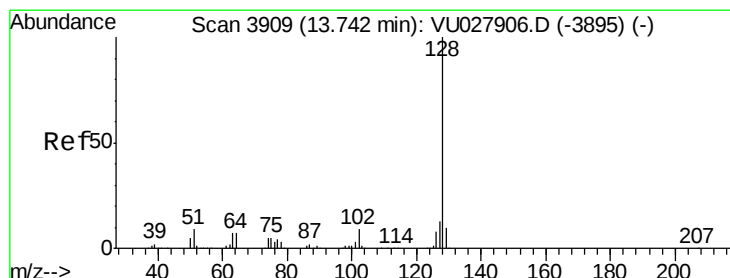
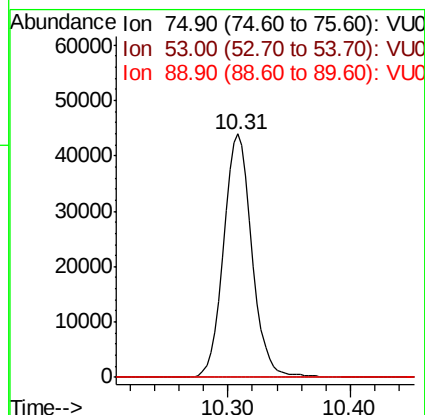
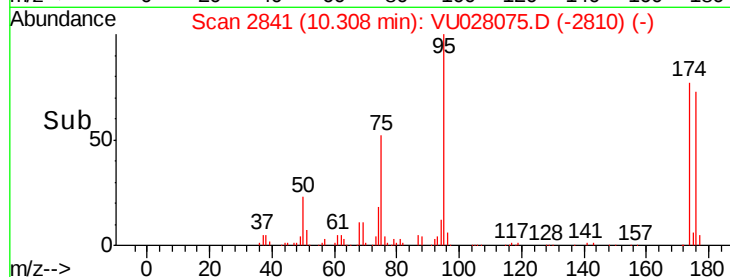
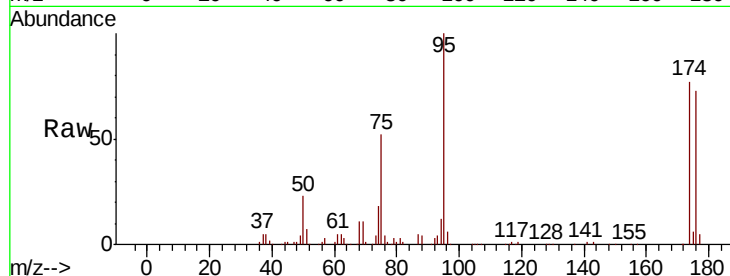
Tot Ion: 75 Resp: 71594

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0



#95

Naphthalene

Concen: 0.231 ug/l

RT: 13.75 min Scan# 3912

Delta R.T. 0.01 min

Lab File: VU028075.D

Acq: 12 Nov 2018 19:22

Tgt Ion: 128 Resp: 3790

Ion Ratio Lower Upper

128 100

127 9.6 10.4 15.6#

129 8.9 8.3 12.5

