

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111218\
 Data File : VU028077.D
 Acq On : 12 Nov 2018 20:10
 Operator : MD/SY
 Sample : J5887-16
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 W-3-S

Quant Time: Nov 13 02:48:20 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	175449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	336937	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	300792	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	117307	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	153474	58.84	ug/l	0.00
Spiked Amount			Recovery	=	117.68%	
35) Dibromofluoromethane	4.88	113	109800	51.68	ug/l	0.00
Spiked Amount			Recovery	=	103.36%	
50) Toluene-d8	7.57	98	434617	52.96	ug/l	0.00
Spiked Amount			Recovery	=	105.92%	
62) 4-Bromofluorobenzene	10.31	95	141367	46.70	ug/l	0.00
Spiked Amount			Recovery	=	93.40%	

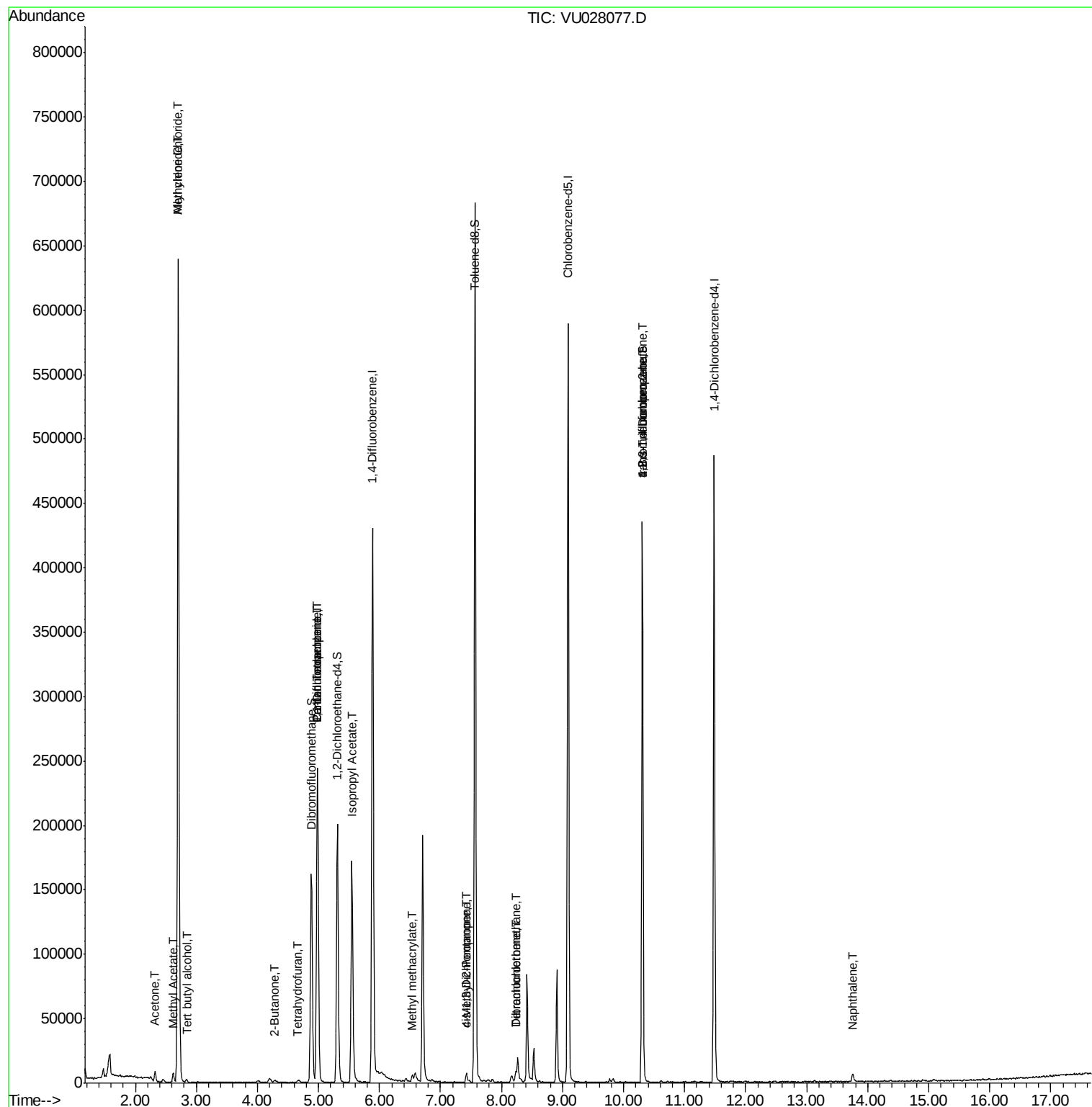
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	2.84	59	1995	2.889	ug/l #	73
13) Acrolein	2.14	56	19	Below Cal	#	1
14) Allyl chloride	2.70	41	13775	3.065	ug/l #	27
16) Acetone	2.32	43	8947	5.528	ug/l	93
18) Methyl Acetate	2.62	43	9279	2.084	ug/l	98
20) Methylene Chloride	2.70	84	265161	112.215	ug/l	97
25) 2-Butanone	4.29	43	3523	1.368	ug/l	91
29) Tetrahydrofuran	4.66	42	758	0.441	ug/l #	60
31) Cyclohexane	4.99	56	4578	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	16367	4.638	ug/l #	49
38) Carbon Tetrachloride	4.99	117	18616	5.953	ug/l #	17
43) Isopropyl Acetate	5.55	43	205689	25.391	ug/l	99
48) Methyl methacrylate	6.54	41	7569	1.907	ug/l #	25
51) 4-Methyl-2-Pentanone	7.42	43	3043	0.562	ug/l #	38
54) cis-1,3-Dichloropropene	7.42	75	1165	0.274	ug/l #	59
60) Dibromochloromethane	8.22	129	1161	0.475	ug/l #	10
64) Tetrachloroethene	8.23	164	1024	0.525	ug/l	87
76) 1,2,3-Trichloropropane	10.31	75	76510	23.845	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	76510	59.485	ug/l #	100
95) Naphthalene	13.75	128	7558	0.606	ug/l #	96

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

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QLast Update : Fri Nov 02 02:28:20 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1186

Delta R.T. 0.00 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

Instrument :

MSVOA_U

ClientSampleId :

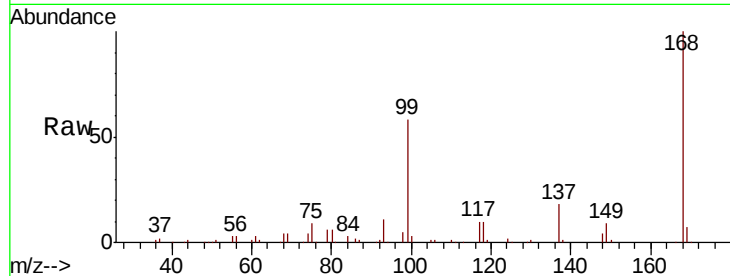
W-3-S

Tot Ion:168 Resp: 175449

Ion Ratio Lower Upper

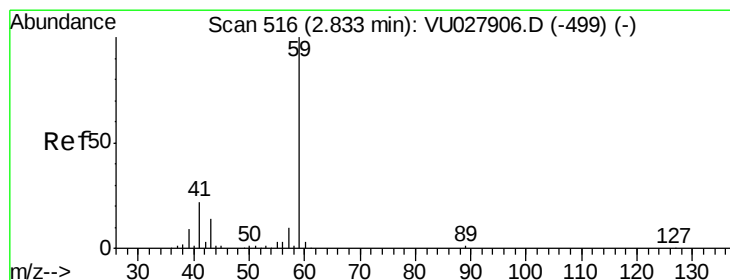
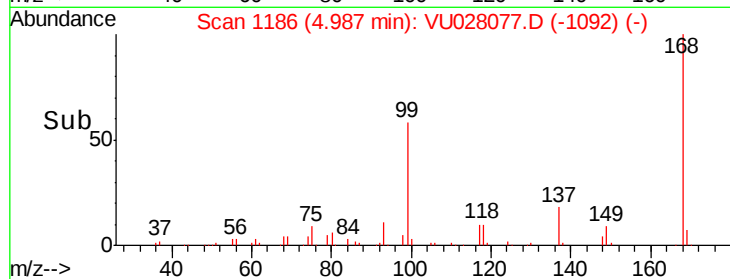
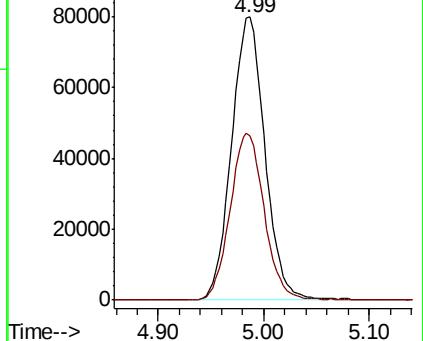
168 100

99 58.0 47.9 71.9



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

Ion 98.90 (98.60 to 99.60): VU027906.D (-1168) (-)



#11

Tert butyl alcohol

Concen: 2.889 ug/l

RT: 2.84 min Scan# 518

Delta R.T. 0.01 min

Lab File: VU028077.D

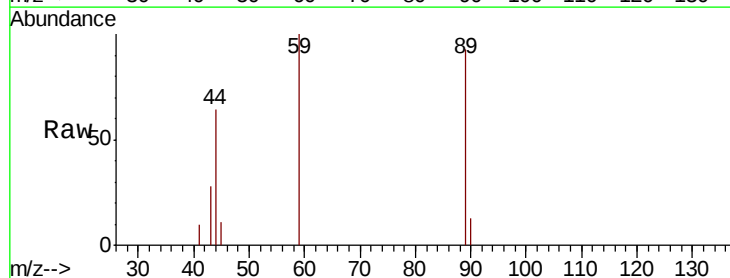
Acq: 12 Nov 2018 20:10

Tgt Ion: 59 Resp: 1995

Ion Ratio Lower Upper

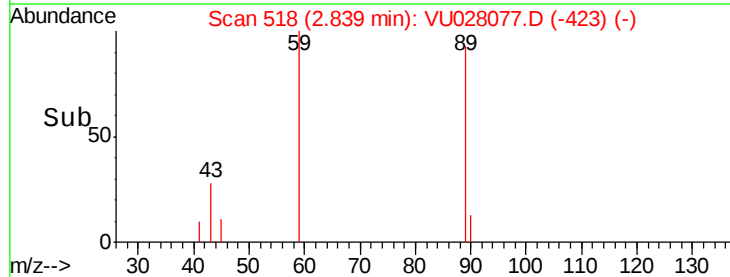
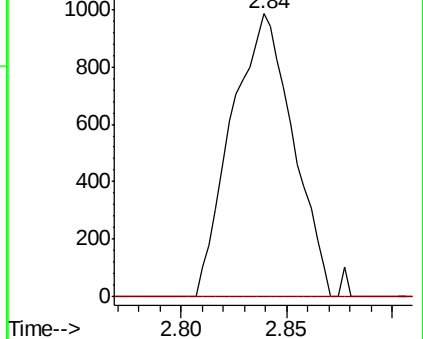
59 100

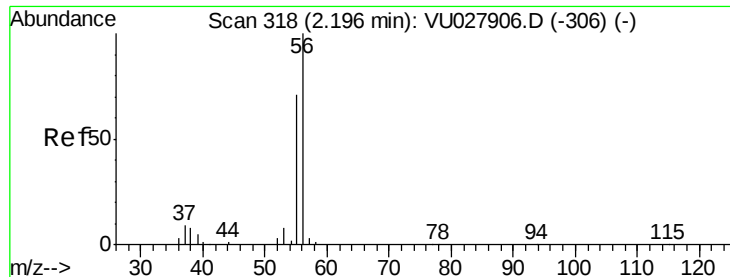
57 0.0 7.8 11.8#



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

Ion 57.00 (56.70 to 57.70): VU027906.D (-499) (-)





#13

Acrolein

Concen: Below Cal

RT: 2.14 min Scan# 300

Delta R.T. -0.06 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

Instrument :

MSVOA_U

ClientSampleId :

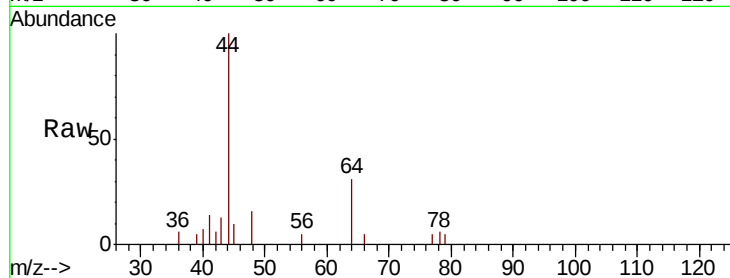
W-3-S

Tot Ion: 56 Resp: 19

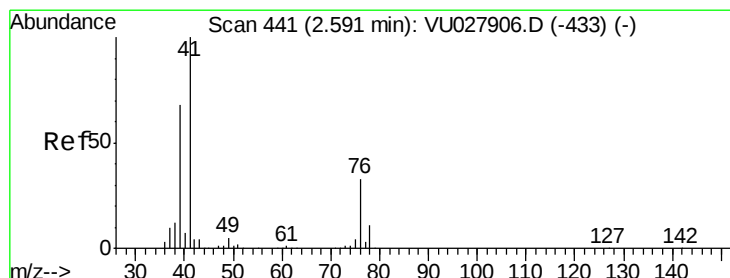
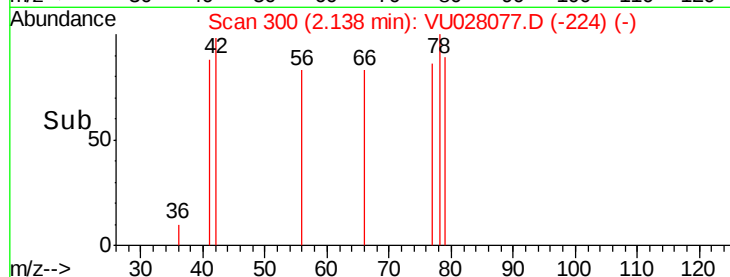
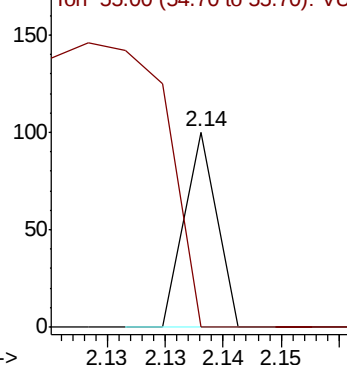
Ion Ratio Lower Upper

56 100

55 668.4 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU028077.D (-224) (-)



#14

Allyl chloride

Concen: 3.065 ug/l

RT: 2.70 min Scan# 475

Delta R.T. 0.11 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

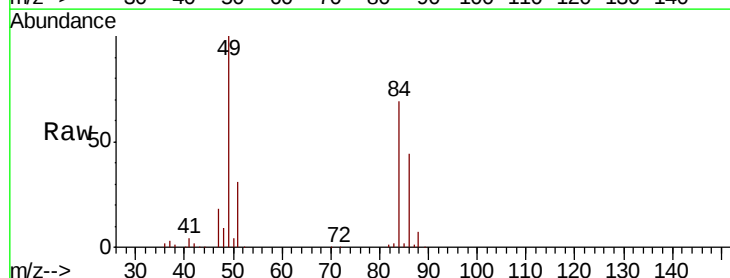
Tgt Ion: 41 Resp: 13775

Ion Ratio Lower Upper

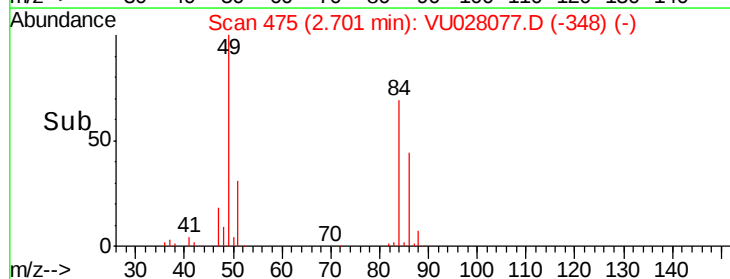
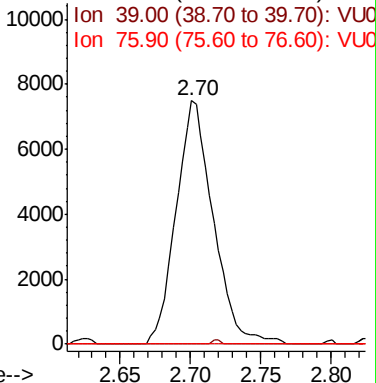
41 100

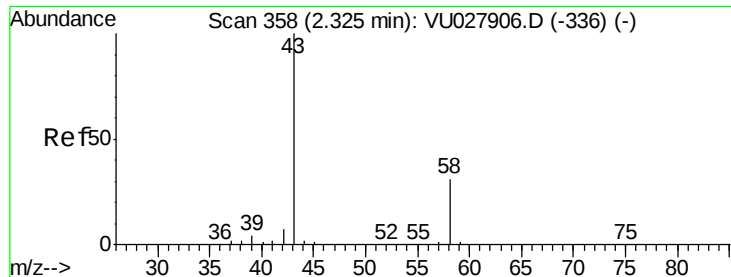
39 0.3 51.9 77.9#

76 0.0 23.8 35.6#



Abundance Ion 41.00 (40.70 to 41.70): VU028077.D (-348) (-)





#16

Acetone

Concen: 5.528 ug/l

RT: 2.32 min Scan# 358

Delta R.T. -0.00 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

Instrument :

MSVOA_U

ClientSampleId :

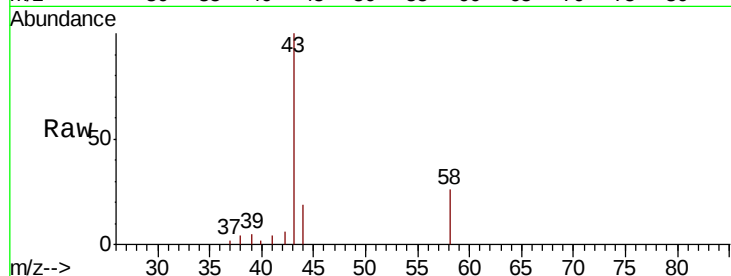
W-3-S

Tot Ion: 43 Resp: 8947

Ion Ratio Lower Upper

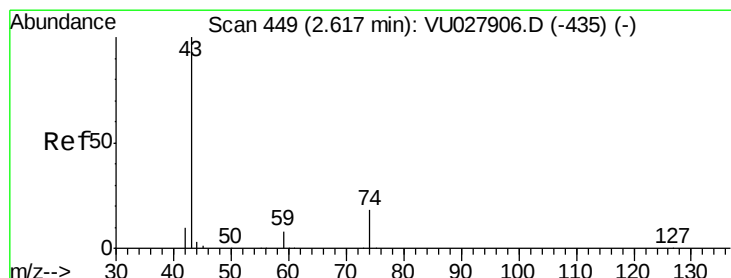
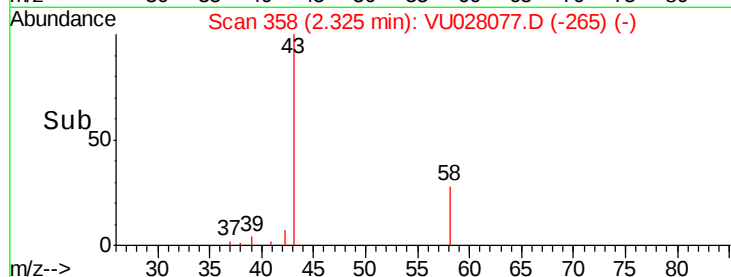
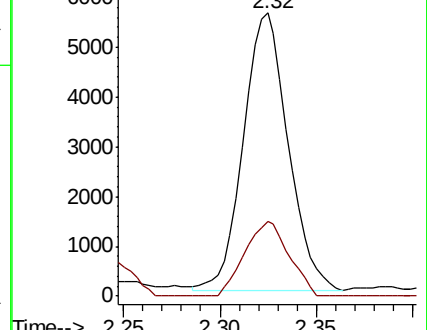
43 100

58 27.0 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU028077.D (-356) (-)

Ion 58.00 (57.70 to 58.70): VU028077.D (-356) (-)



#18

Methyl Acetate

Concen: 2.084 ug/l

RT: 2.62 min Scan# 450

Delta R.T. 0.00 min

Lab File: VU028077.D

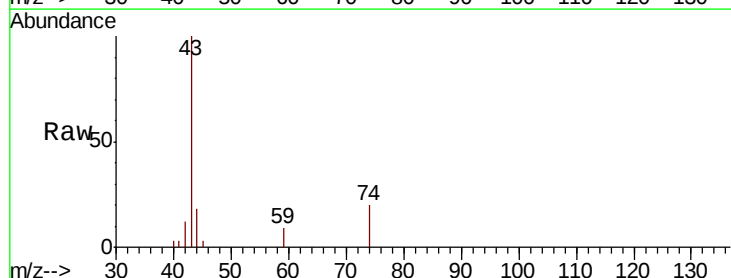
Acq: 12 Nov 2018 20:10

Tgt Ion: 43 Resp: 9279

Ion Ratio Lower Upper

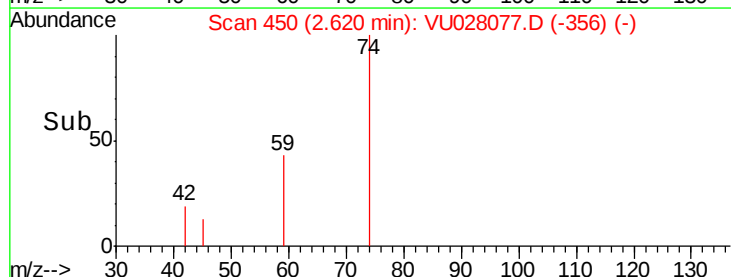
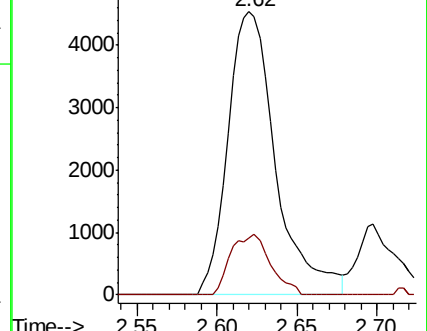
43 100

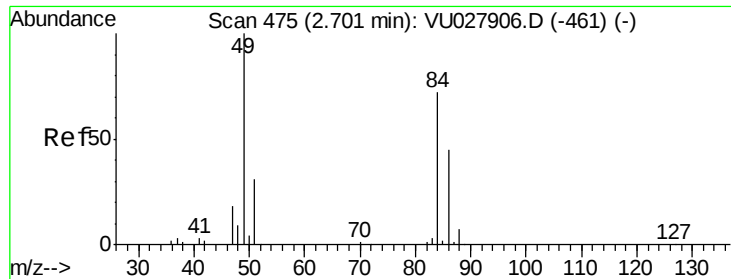
74 17.7 14.9 22.3



Abundance Ion 43.00 (42.70 to 43.70): VU028077.D (-356) (-)

Ion 74.00 (73.70 to 74.70): VU028077.D (-356) (-)

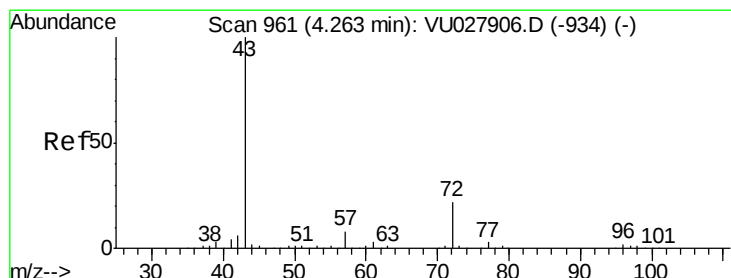
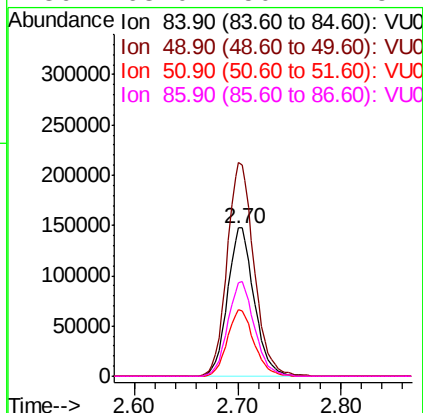
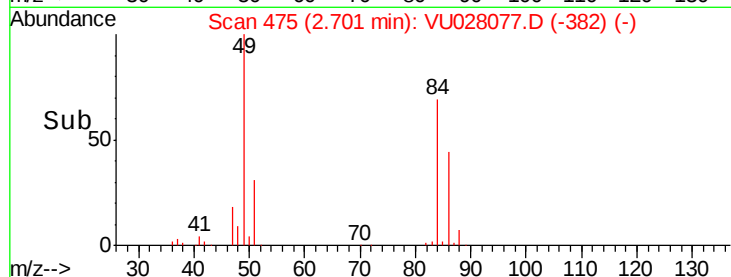
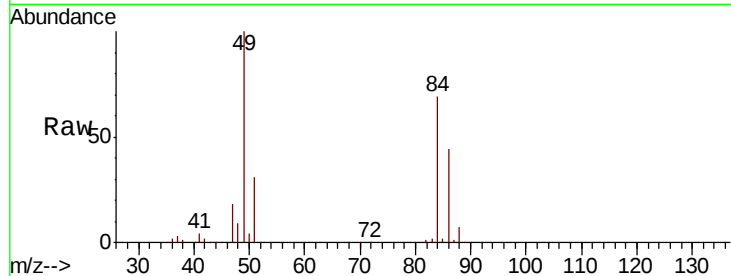




#20
Methvlene Chloride
Concen: 112.215 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

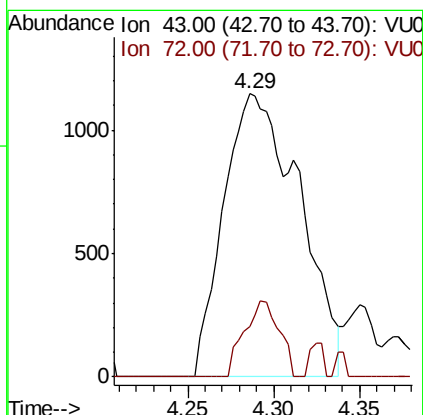
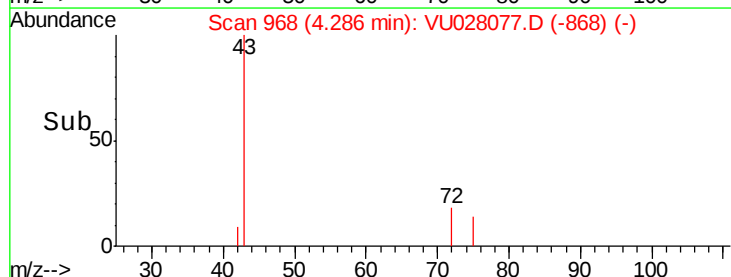
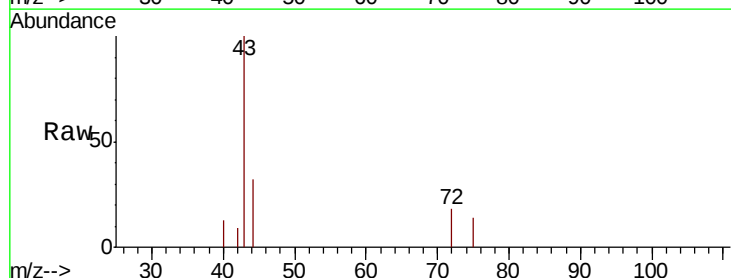
Instrument :
MSVOA_U
ClientSampleId :
W-3-S

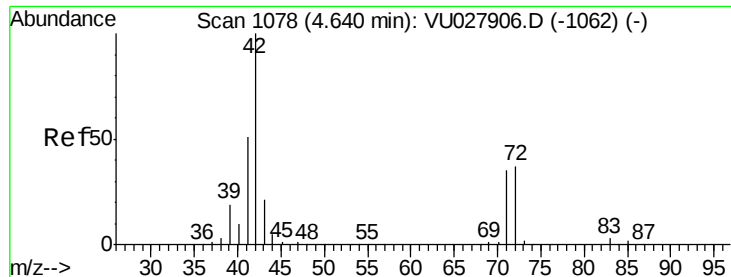
Tot Ion:	84	Resp:	265161
Ion	Ratio	Lower	Upper
84	100		
49	144.2	111.6	167.4
51	44.7	34.8	52.2
86	63.0	50.1	75.1



#25
2-Butanone
Concen: 1.368 ug/l
RT: 4.29 min Scan# 968
Delta R.T. 0.02 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

Tgt Ion:	43	Resp:	3523
Ion	Ratio	Lower	Upper
43	100		
72	18.0	17.7	26.5





#29

Tetrahydrofuran

Concen: 0.441 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

Instrument :

MSVOA_U

ClientSampled :

W-3-S

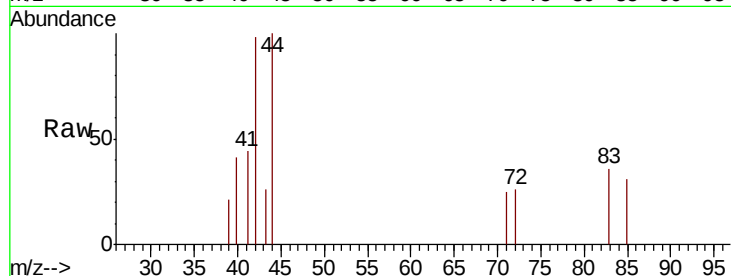
Tot Ion: 42 Resp: 758

Ion Ratio Lower Upper

42 100

72 9.5 29.4 44.0#

71 15.4 27.9 41.9#



Abundance Ion 42.00 (41.70 to 42.70): VU0

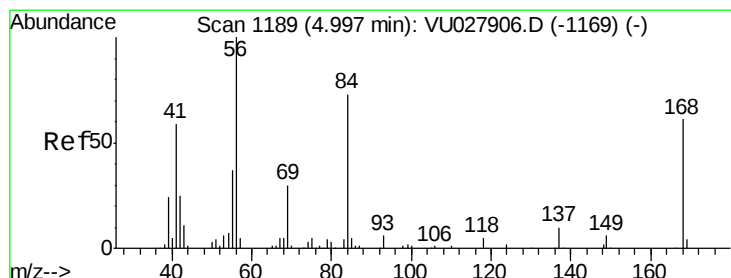
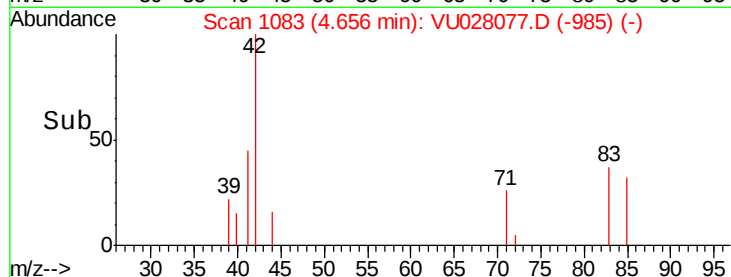
Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

4.66

4.62 4.64 4.66 4.68 4.70

Time-->



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

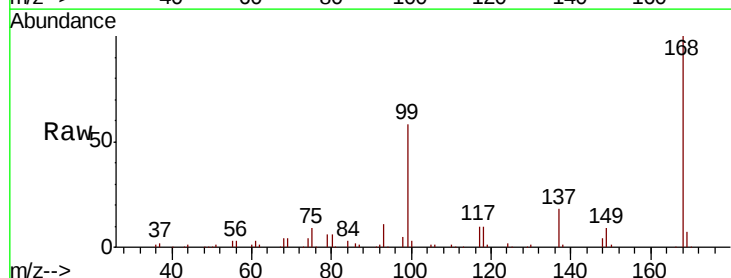
Tgt Ion: 56 Resp: 4578

Ion Ratio Lower Upper

56 100

69 148.0 23.7 35.5#

84 138.8 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

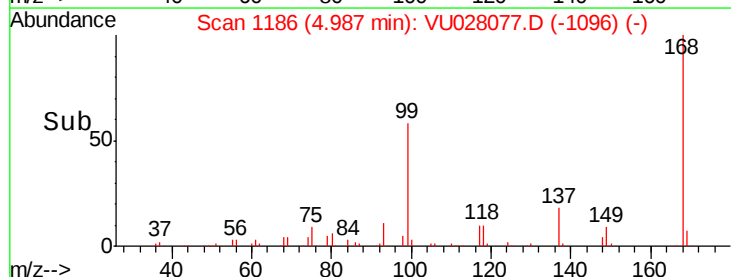
Ion 69.00 (68.70 to 69.70): VU0

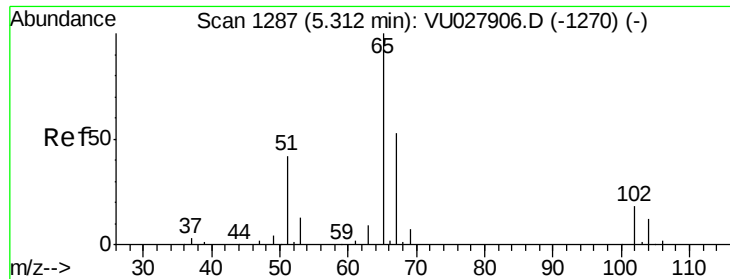
Ion 84.00 (83.70 to 84.70): VU0

4.99

4.95 5.00 5.05

Time-->

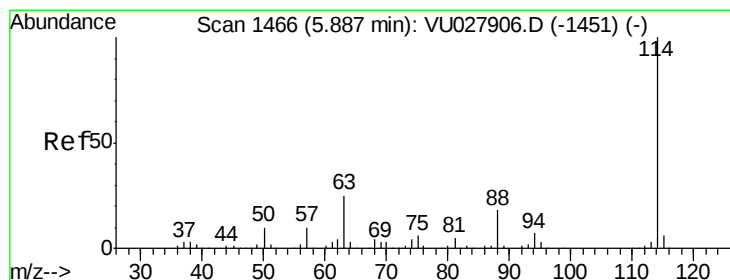
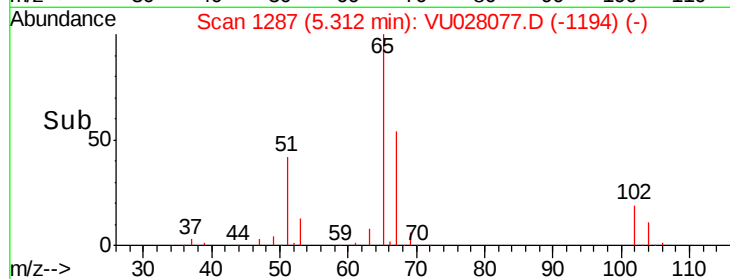
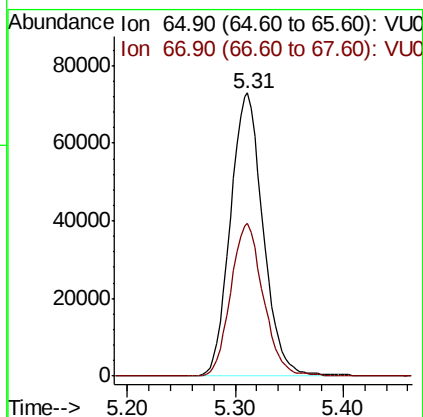
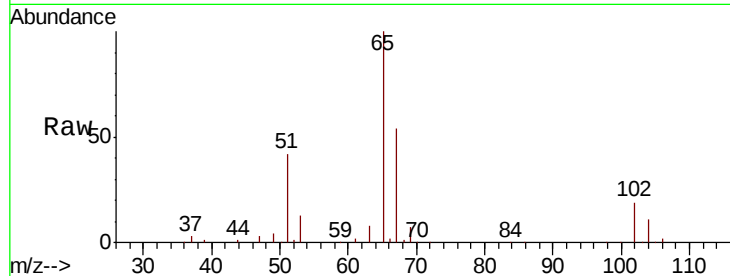




#33
 1,2-Dichloroethane-d4
 Concen: 58.836 ug/l
 RT: 5.31 min Scan# 1287
 Delta R.T. -0.00 min
 Lab File: VU028077.D
 Acq: 12 Nov 2018 20:10

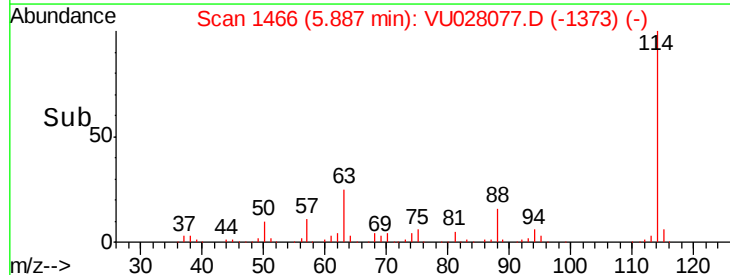
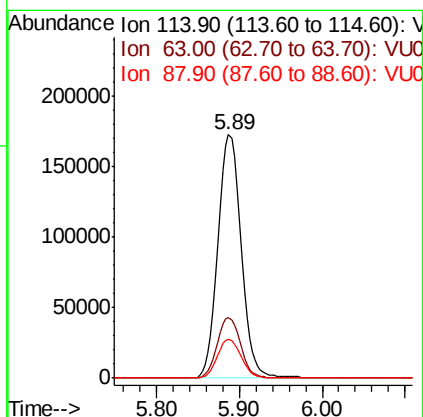
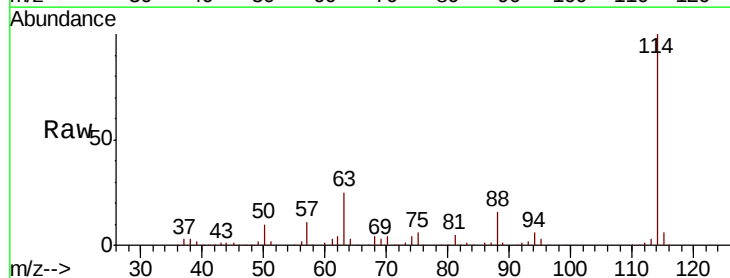
Instrument :
 MSVOA_U
 ClientSampleId :
 W-3-S

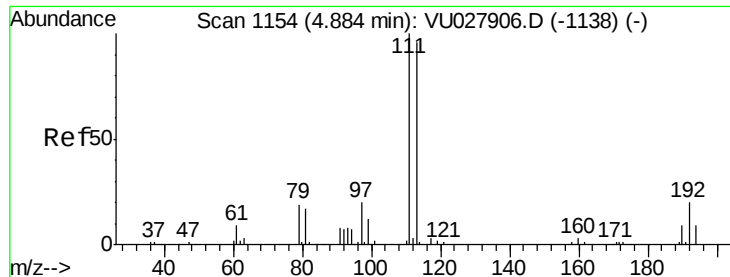
Tot Ion: 65 Resp: 153474
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 109.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028077.D
 Acq: 12 Nov 2018 20:10

Tgt Ion: 114 Resp: 336937
 Ion Ratio Lower Upper
 114 100
 63 24.7 0.0 50.8
 88 16.1 0.0 35.8

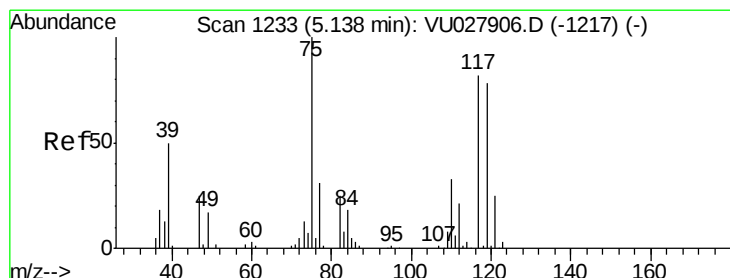
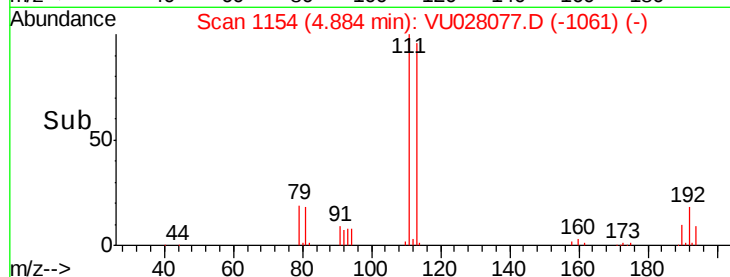
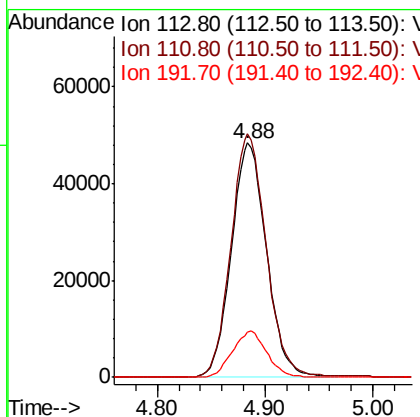
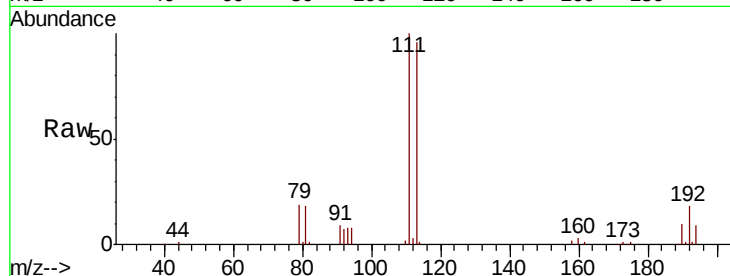




#35
 Dibromofluoromethane
 Concen: 51.684 ug/l
 RT: 4.88 min Scan# 1154
 Delta R.T. -0.00 min
 Lab File: VU028077.D
 Acq: 12 Nov 2018 20:10

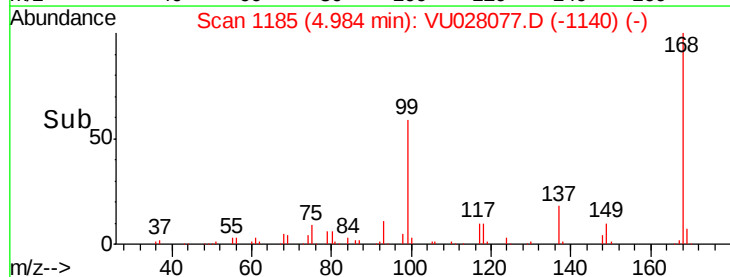
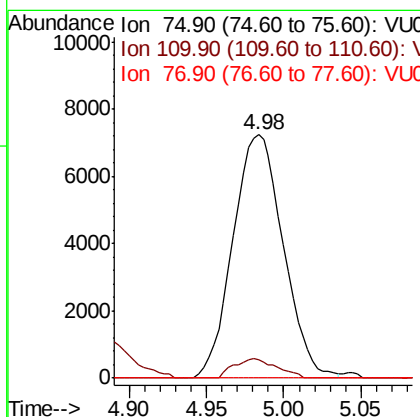
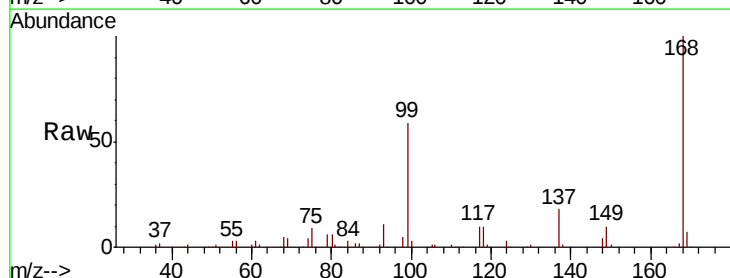
Instrument :
 MSVOA_U
 ClientSampleId :
 W-3-S

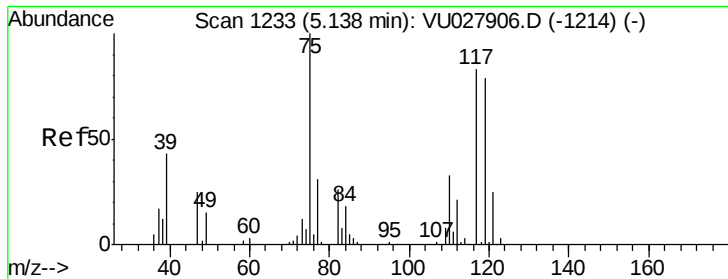
Tot Ion:113 Resp: 109800
 Ion Ratio Lower Upper
 113 100
 111 103.8 83.0 124.6
 192 19.2 15.6 23.4



#36
 1,1-Dichloropropene
 Concen: 4.638 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028077.D
 Acq: 12 Nov 2018 20:10

Tgt Ion: 75 Resp: 16367
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.5 49.5#
 77 0.0 24.9 37.3#

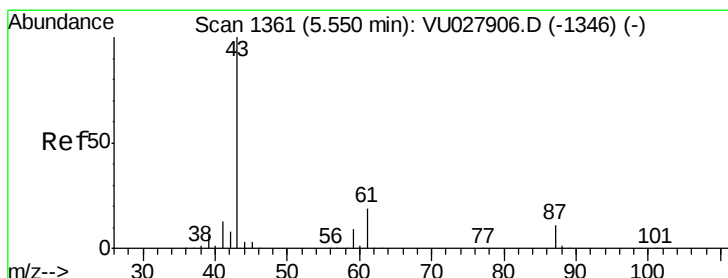
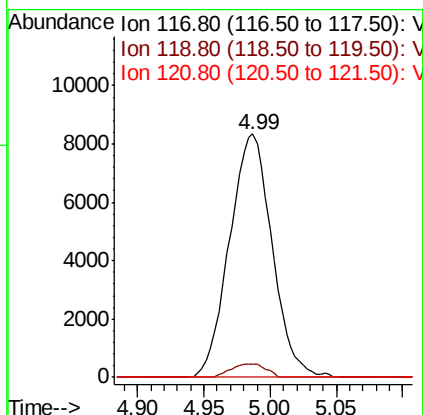
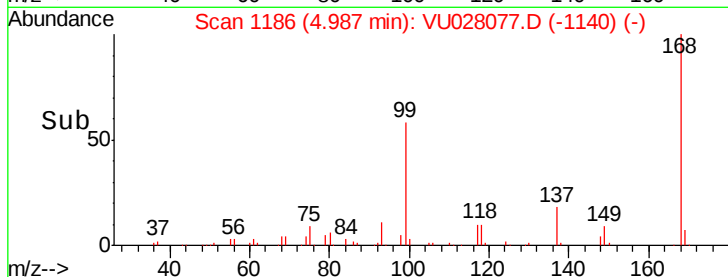
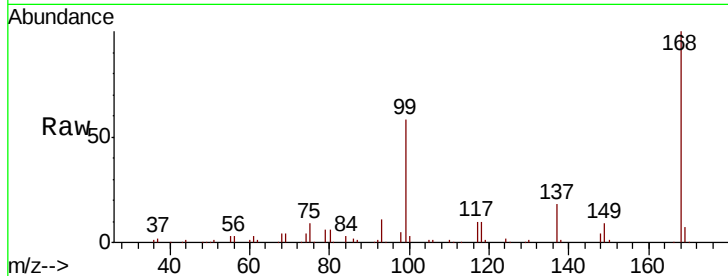




#38
Carbon Tetrachloride
Concen: 5.953 ug/l
RT: 4.99 min Scan# 1186
Delta R.T. -0.15 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

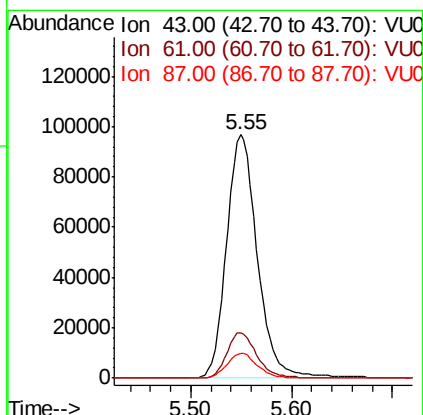
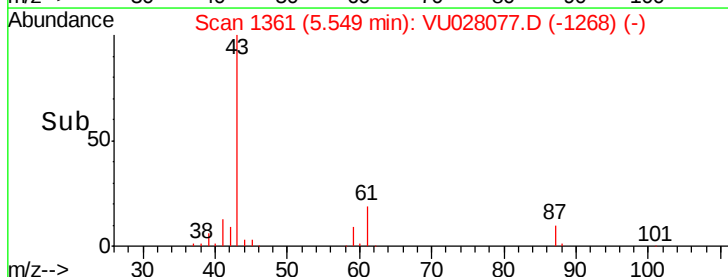
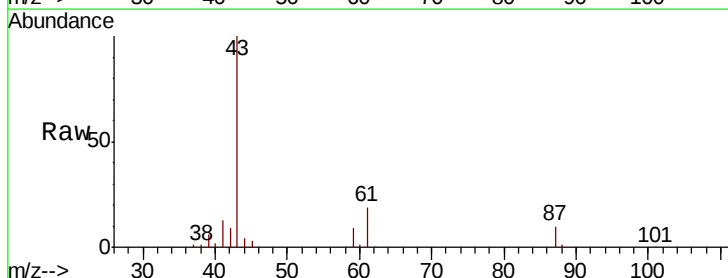
Instrument :
MSVOA_U
ClientSampleId :
W-3-S

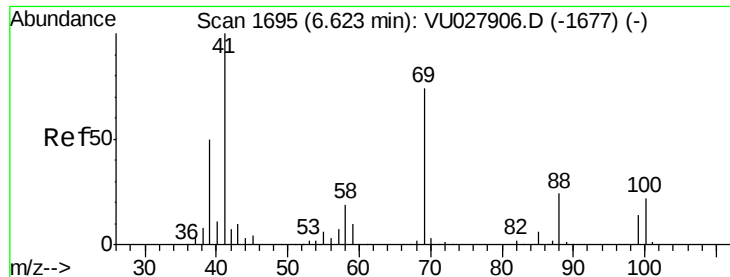
Tot Ion:117 Resp: 18616
Ion Ratio Lower Upper
117 100
119 5.5 76.0 114.0#
121 0.0 24.5 36.7#



#43
Isopropyl Acetate
Concen: 25.391 ug/l
RT: 5.55 min Scan# 1361
Delta R.T. -0.00 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

Tgt Ion: 43 Resp: 205689
Ion Ratio Lower Upper
43 100
61 18.3 15.0 22.4
87 10.1 8.6 12.8





#48

Methvl methacrylate

Concen: 1.907 ug/l

RT: 6.54 min Scan# 1668

Delta R.T. -0.09 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

Instrument :

MSVOA_U

ClientSampleId :

W-3-S

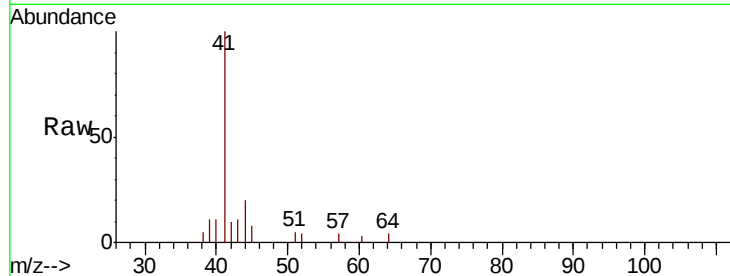
Tot Ion: 41 Resp: 7569

Ion Ratio Lower Upper

41 100

69 0.0 59.8 89.8#

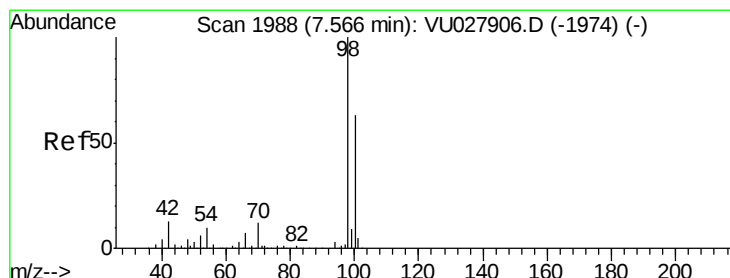
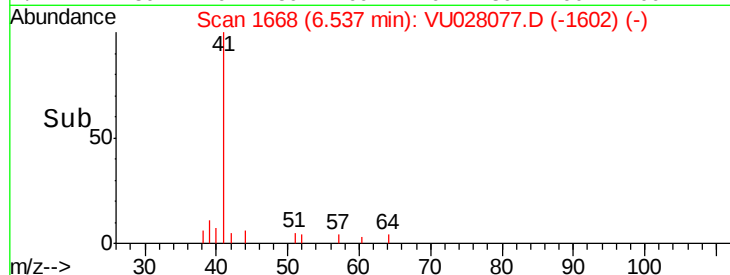
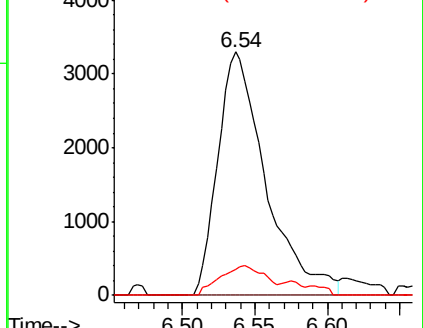
39 11.5 40.0 60.0#



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: 52.960 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028077.D

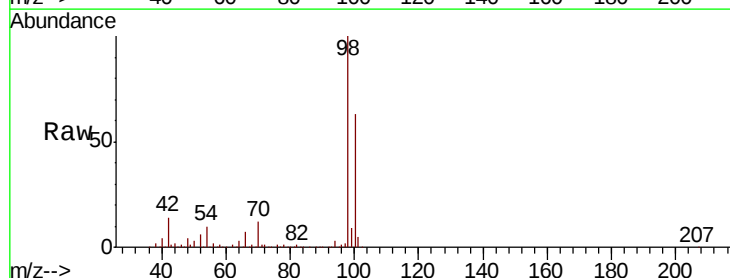
Acq: 12 Nov 2018 20:10

Tgt Ion: 98 Resp: 434617

Ion Ratio Lower Upper

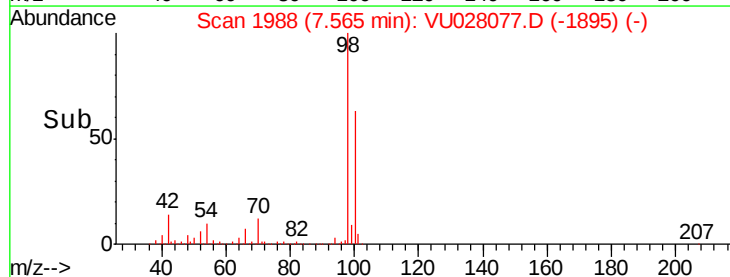
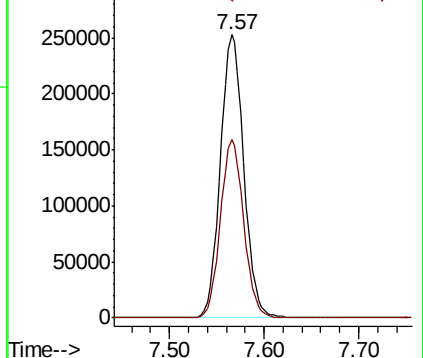
98 100

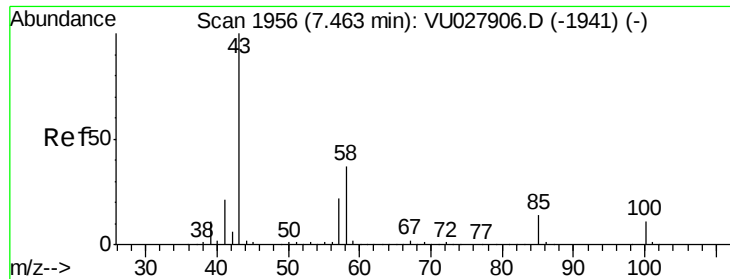
100 62.7 50.1 75.1



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

Ion 100.00 (99.70 to 100.70): VU027906.D (-1974) (-)





#51

4-Methyl-2-Pentanone

Concen: 0.562 ug/l

RT: 7.42 min Scan# 1942

Delta R.T. -0.05 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

Instrument :

MSVOA_U

ClientSampleId :

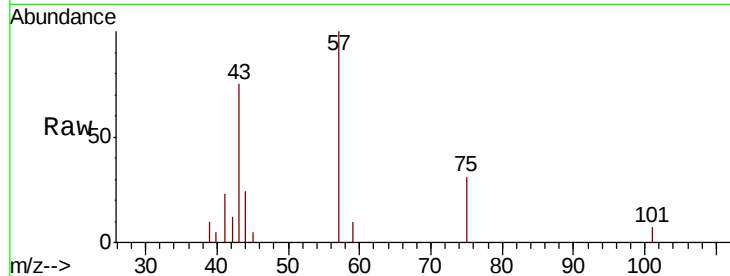
W-3-S

Tot Ion: 43 Resp: 3043

Ion Ratio Lower Upper

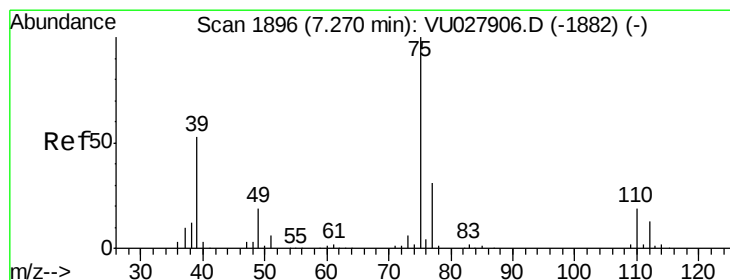
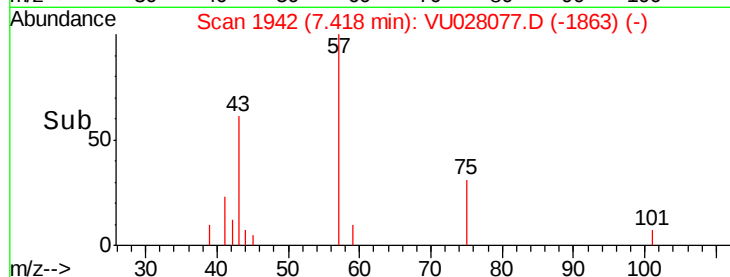
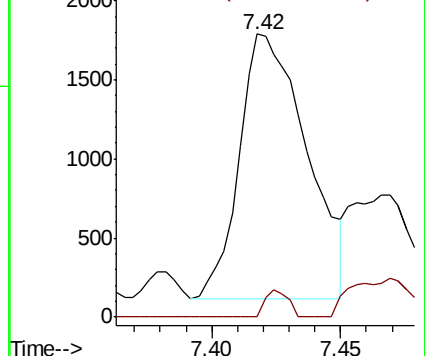
43 100

58 0.0 29.5 44.3#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#54

cis-1,3-Dichloropropene

Concen: 0.274 ug/l

RT: 7.42 min Scan# 1943

Delta R.T. 0.15 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

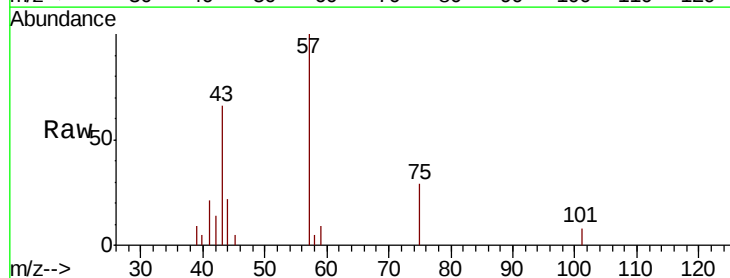
Tgt Ion: 75 Resp: 1165

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

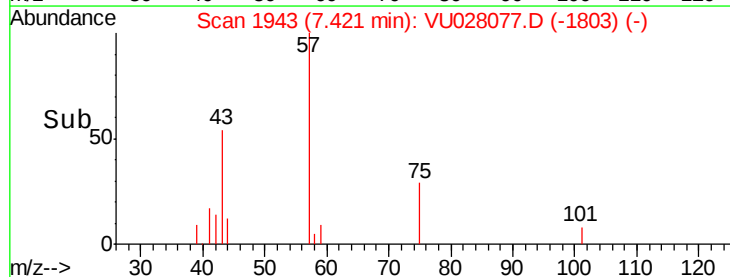
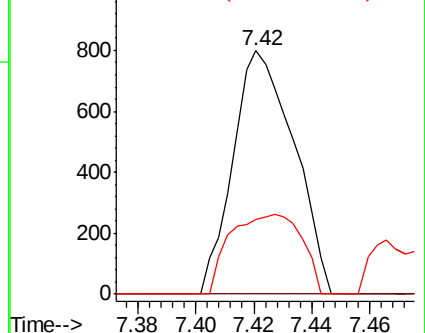
39 30.7 42.6 64.0#

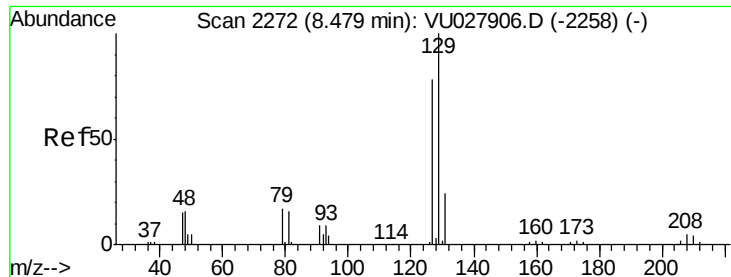


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 76.90 (76.60 to 77.60): VU0

Ion 39.00 (38.70 to 39.70): VU0

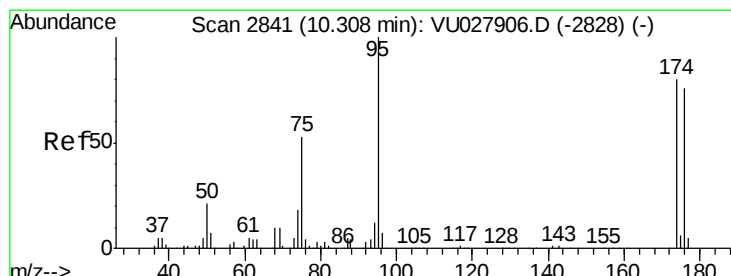
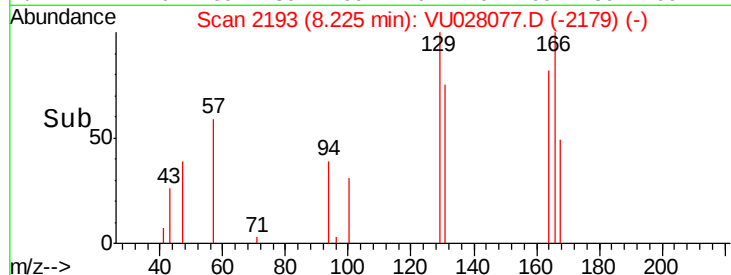
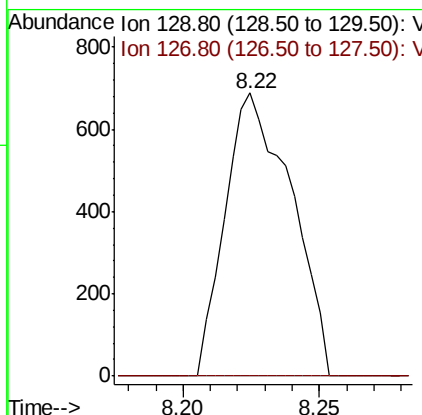
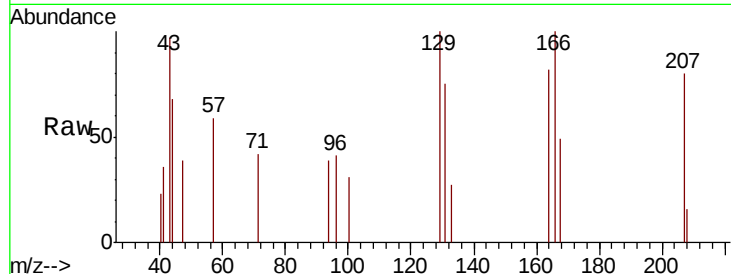




#60
Dibromochloromethane
Concen: 0.475 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.25 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

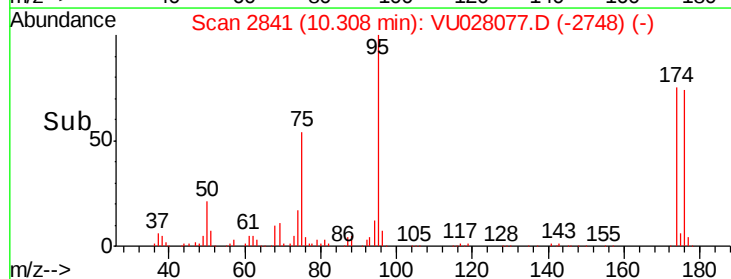
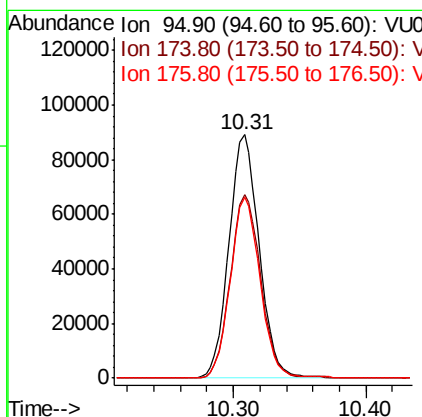
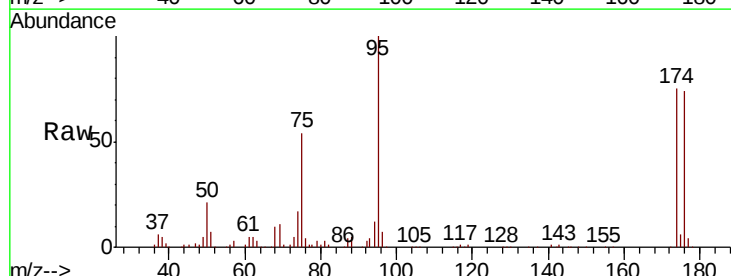
Instrument :
MSVOA_U
ClientSampleId :
W-3-S

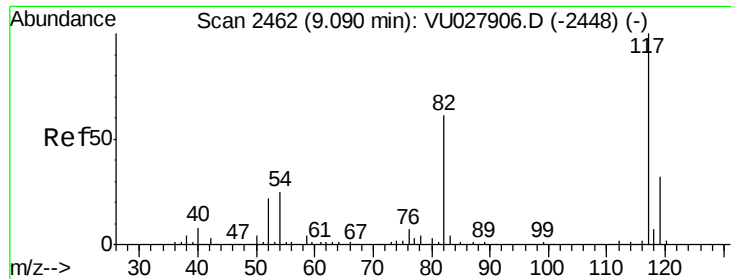
Tot Ion:129 Resp: 1161
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#



#62
4-Bromofluorobenzene
Concen: 46.703 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

Tgt Ion: 95 Resp: 141367
Ion Ratio Lower Upper
95 100
174 75.9 0.0 156.4
176 73.7 0.0 150.8

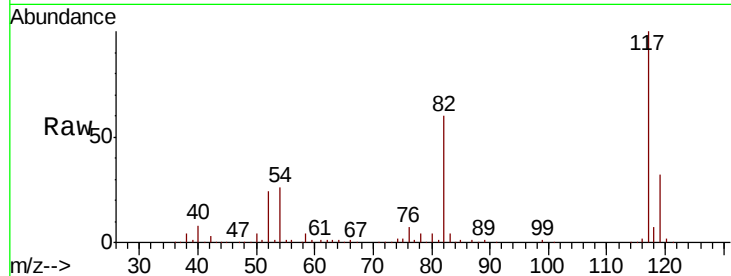




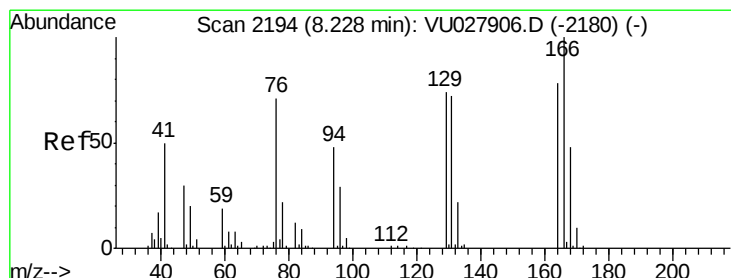
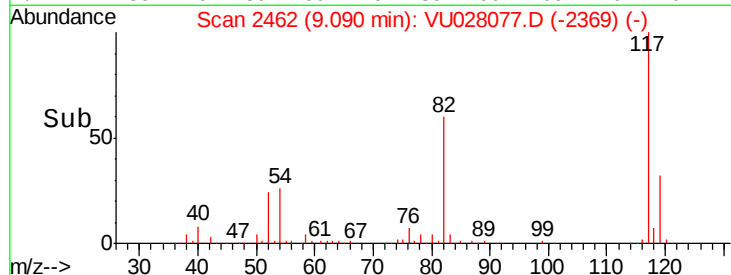
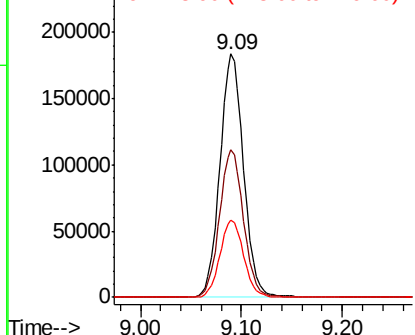
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

Instrument :
MSVOA_U
ClientSampleId :
W-3-S

Tot Ion:117 Resp: 300792
Ion Ratio Lower Upper
117 100
82 60.4 48.6 73.0
119 31.8 25.8 38.8

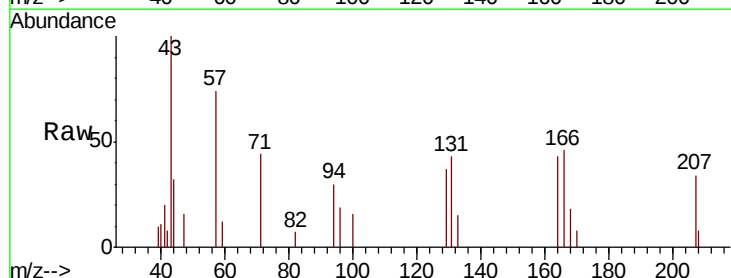


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

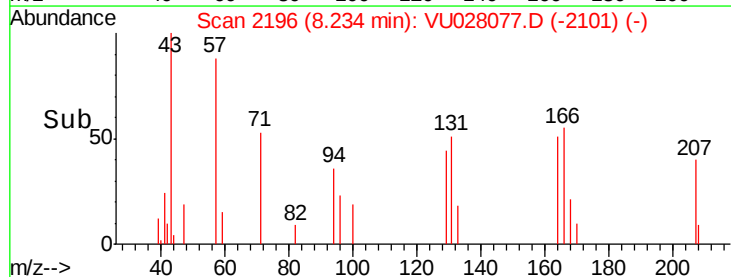
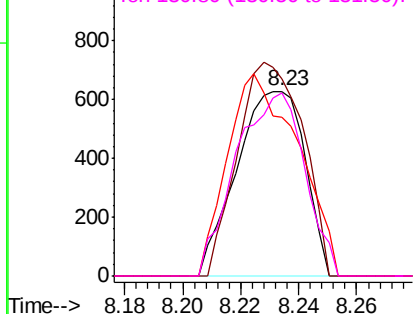


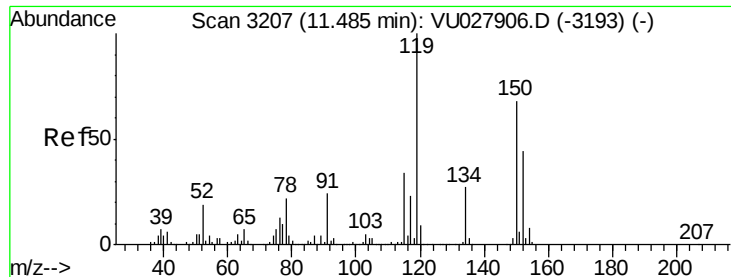
#64
Tetrachloroethene
Concen: 0.525 ug/l
RT: 8.23 min Scan# 2196
Delta R.T. 0.01 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

Tgt Ion:164 Resp: 1024
Ion Ratio Lower Upper
164 100
166 106.9 102.1 153.1
129 85.8 75.9 113.9
131 99.5 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



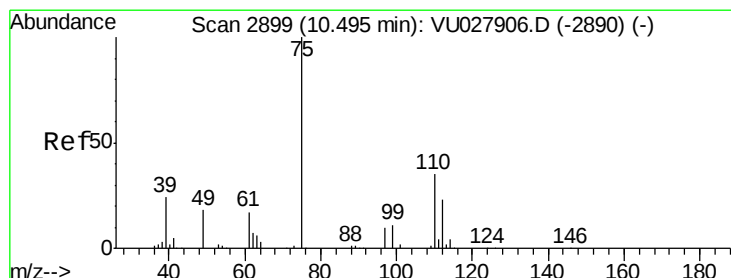
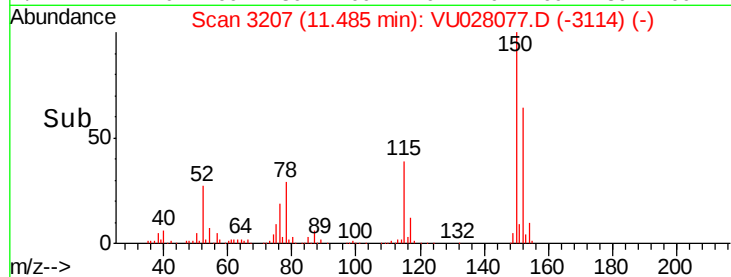
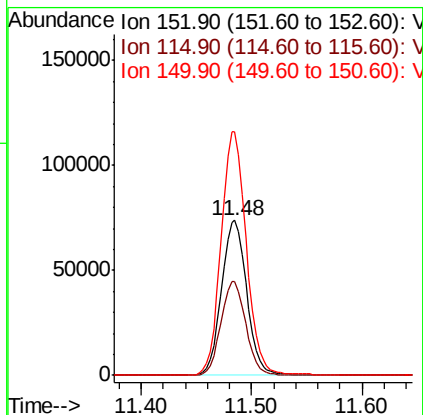
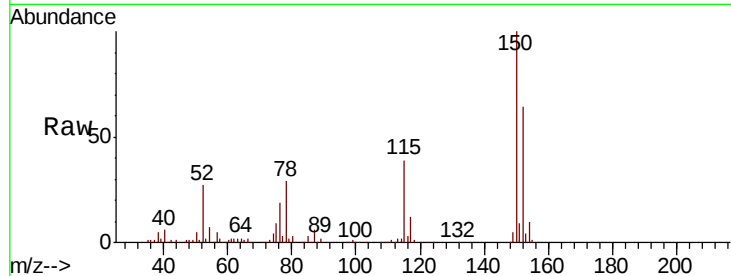


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

Instrument :
MSVOA_U
ClientSampleId :
W-3-S

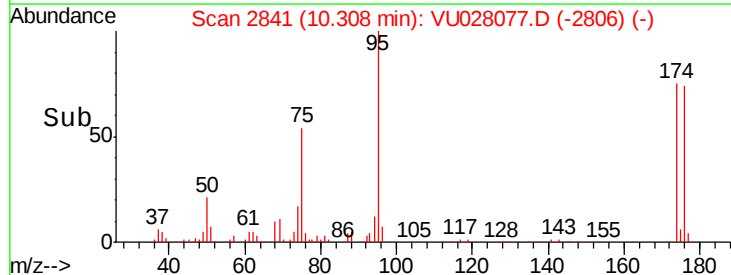
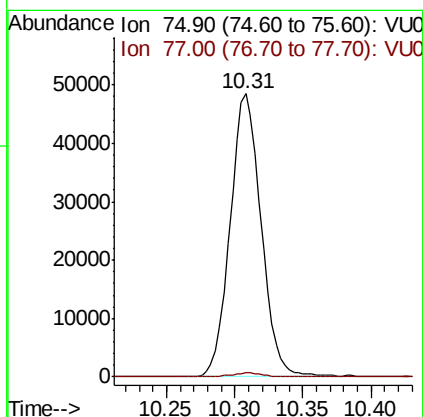
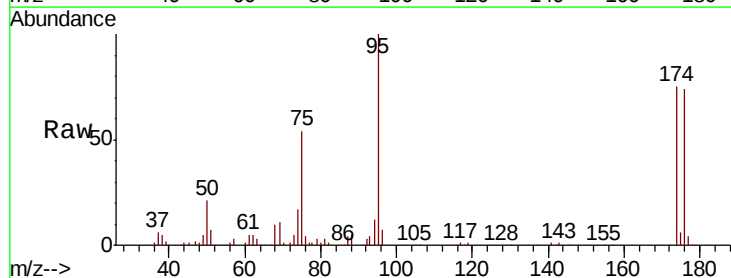
Tot Ion:152 Resp: 117307
Ion Ratio Lower Upper
152 100
115 59.8 43.0 129.0
150 156.9 0.0 349.4

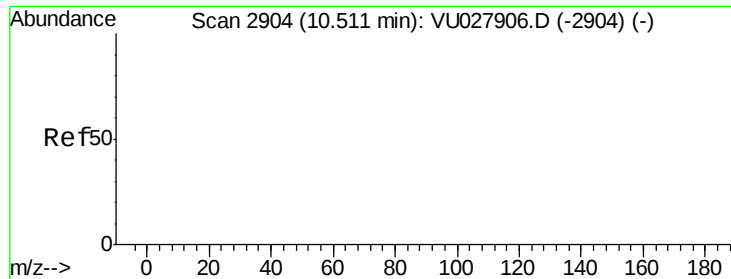


#76

1,2,3-Trichloropropane
Concen: 23.845 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU028077.D
Acq: 12 Nov 2018 20:10

Tgt Ion: 75 Resp: 76510
Ion Ratio Lower Upper
75 100
77 1.4 21.6 64.6#





#81

trans-1,4-Dichloro-2-butene

Concen: 59.485 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

Instrument :

MSVOA_U

ClientSampleId :

W-3-S

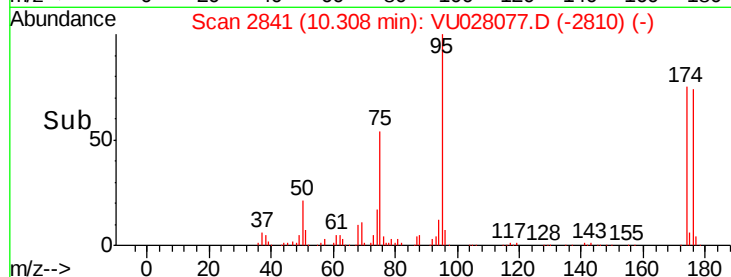
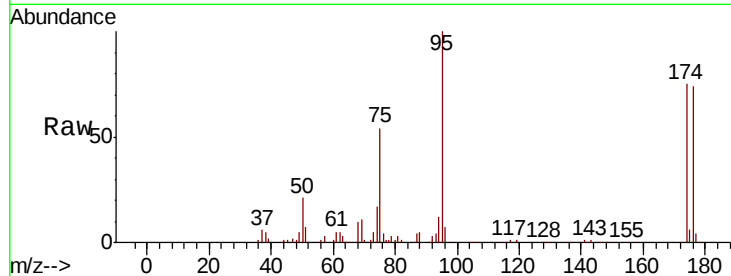
Tot Ion: 75 Resp: 76510

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

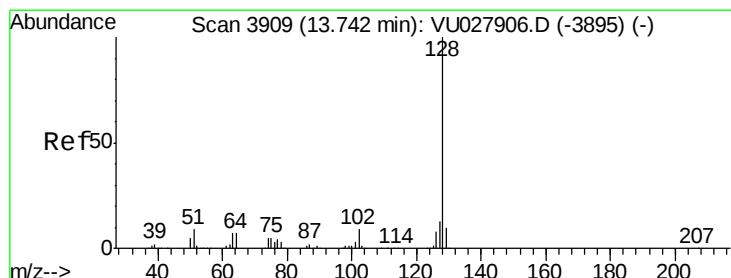
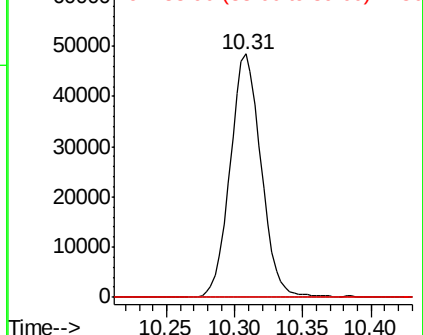
89 0.0 0.0 0.0#



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



#95

Naphthalene

Concen: 0.606 ug/l

RT: 13.75 min Scan# 3913

Delta R.T. 0.01 min

Lab File: VU028077.D

Acq: 12 Nov 2018 20:10

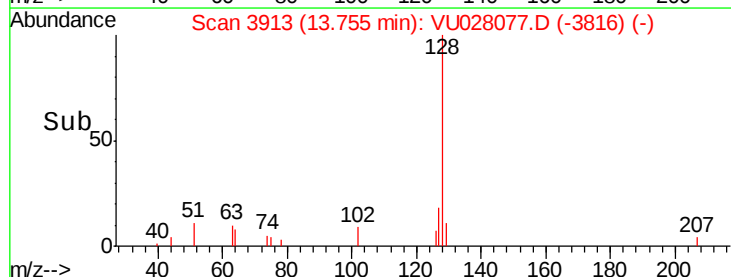
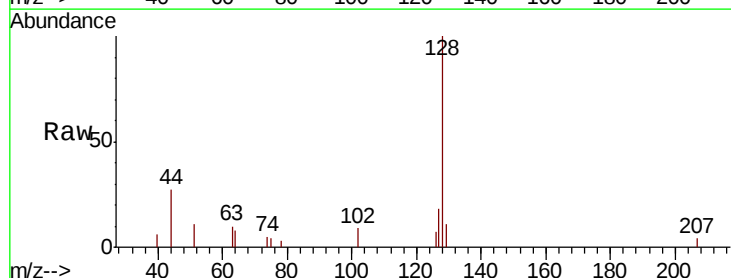
Tgt Ion:128 Resp: 7558

Ion Ratio Lower Upper

128 100

127 15.7 10.4 15.6#

129 10.3 8.3 12.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

