

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU111218\
 Data File : VU028076.D
 Acq On : 12 Nov 2018 19:46
 Operator : MD/SY
 Sample : J5887-12
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 W-2

Quant Time: Nov 13 02:48:06 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	169627	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	319933	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	283116	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	113239	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.31	65	148052	58.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.42%	
35) Dibromofluoromethane	4.89	113	106662	52.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.76%	
50) Toluene-d8	7.57	98	415673	53.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.68%	
62) 4-Bromofluorobenzene	10.31	95	134595	46.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.66%	

Target Compounds

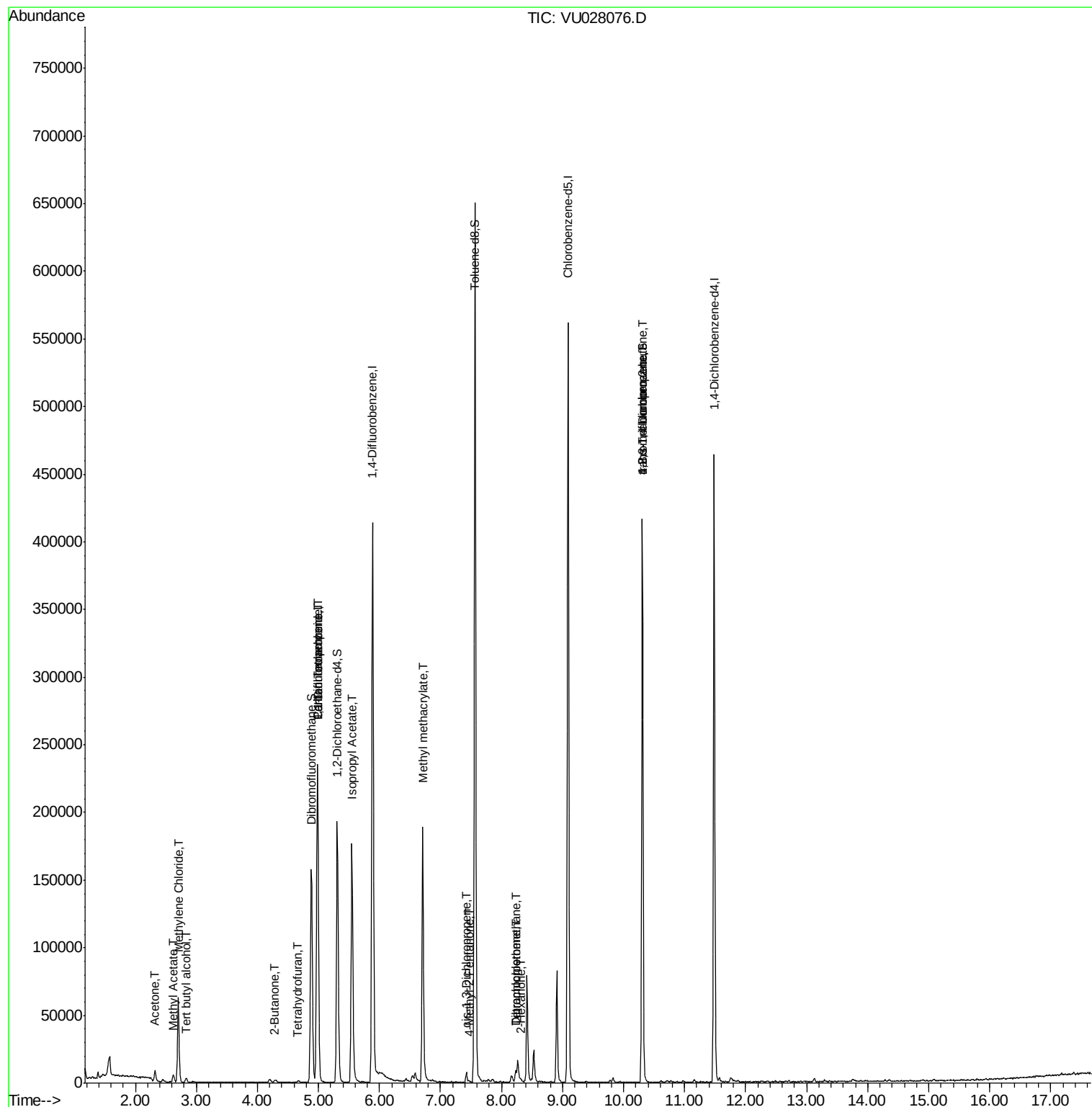
					Qvalue	
11) Tert butyl alcohol	2.84	59	3252	4.871	ug/l #	79
13) Acrolein	2.15	56	56	Below Cal	#	12
16) Acetone	2.32	43	8841	5.650	ug/l	100
18) Methyl Acetate	2.62	43	7975	1.853	ug/l	98
20) Methylene Chloride	2.70	84	25958	11.362	ug/l	98
25) 2-Butanone	4.29	43	3493	1.403	ug/l #	86
29) Tetrahydrofuran	4.66	42	474	0.285	ug/l #	63
31) Cyclohexane	4.99	56	4610	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	15022	4.483	ug/l #	50
38) Carbon Tetrachloride	4.98	117	17643	5.941	ug/l #	17
43) Isopropyl Acetate	5.55	43	206531	26.850	ug/l	99
48) Methyl methacrylate	6.71	41	17402	4.617	ug/l #	46
51) 4-Methyl-2-Pentanone	7.47	43	1059	0.206	ug/l #	59
54) cis-1,3-Dichloropropene	7.42	75	1209	0.300	ug/l #	68
59) 2-Hexanone	8.31	43	1407	0.354	ug/l #	26
60) Dibromochloromethane	8.23	129	970	0.418	ug/l #	10
64) Tetrachloroethene	8.23	164	904	0.492	ug/l	97
76) 1,2,3-Trichloropropane	10.31	75	71729	23.158	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	71729	57.779	ug/l #	100

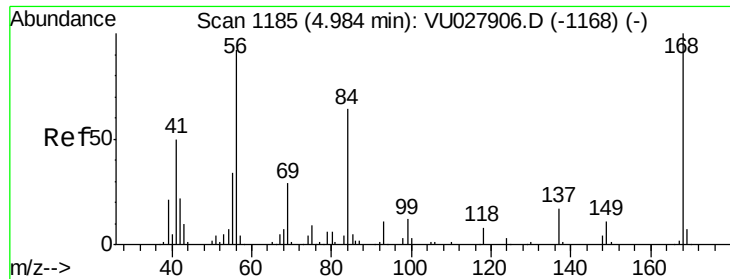
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Nov 02 02:28:20 2018
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

Instrument :

MSVOA_U

ClientSampleId :

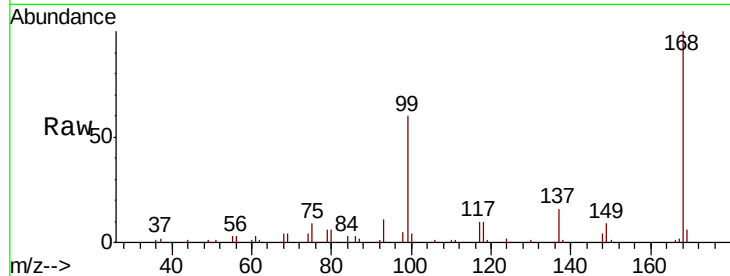
W-2

Tot Ion:168 Resp: 169627

Ion Ratio Lower Upper

168 100

99 59.8 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VU028076.D (-1092) (-)

Ion 98.90 (98.60 to 99.60): VU028076.D (-1092) (-)

4.98

80000

60000

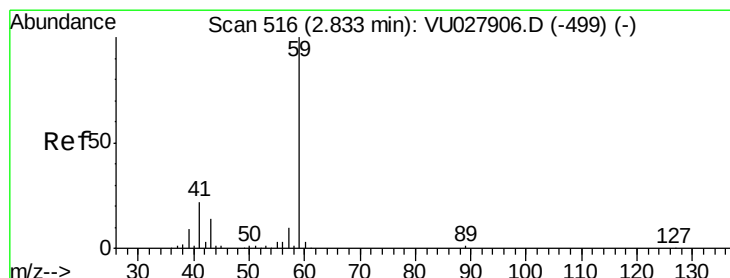
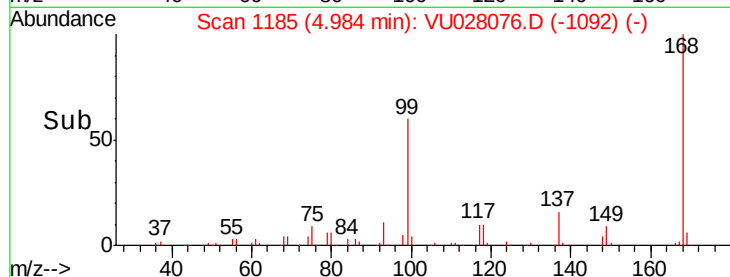
40000

20000

0

Time-->

4.90 5.00 5.10



#11

Tert butyl alcohol

Concen: 4.871 ug/l

RT: 2.84 min Scan# 517

Delta R.T. 0.00 min

Lab File: VU028076.D

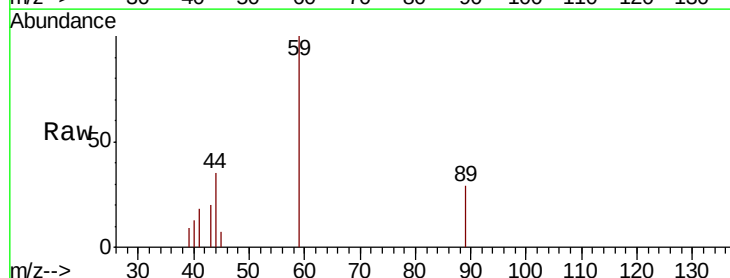
Acq: 12 Nov 2018 19:46

Tgt Ion: 59 Resp: 3252

Ion Ratio Lower Upper

59 100

57 2.1 7.8 11.8#



Abundance Ion 59.00 (58.70 to 59.70): VU028076.D (-423) (-)

Ion 57.00 (56.70 to 57.70): VU028076.D (-423) (-)

2.84

1500

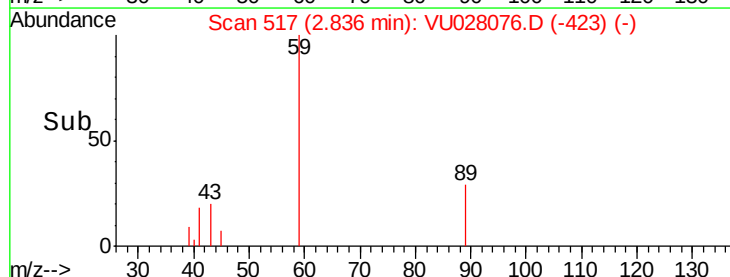
1000

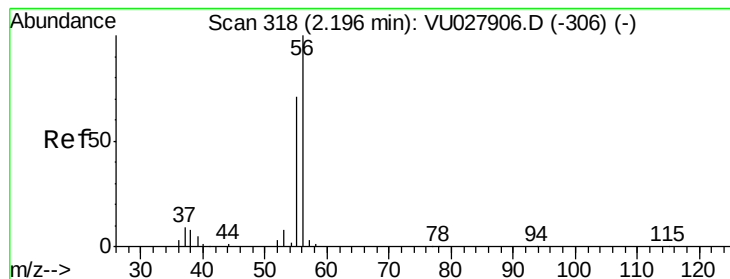
500

0

Time-->

2.80 2.85 2.90





#13

Acrolein

Concen: Below Cal

RT: 2.15 min Scan# 303

Delta R.T. -0.05 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

Instrument :

MSVOA_U

ClientSampleId :

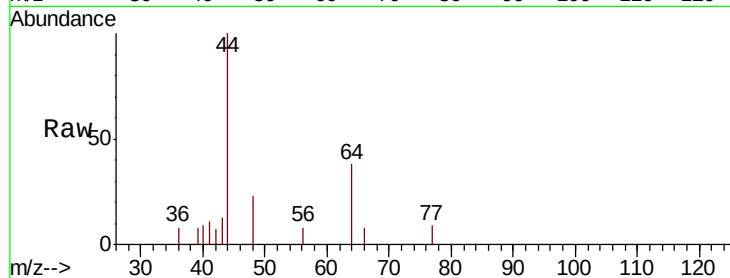
W-2

Tot Ion: 56 Resp: 56

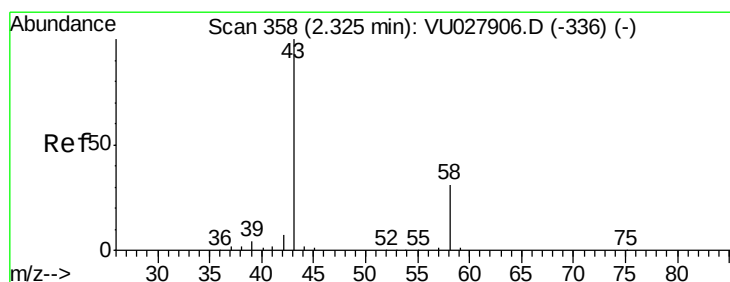
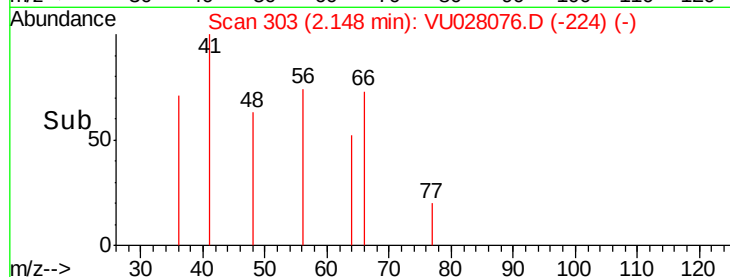
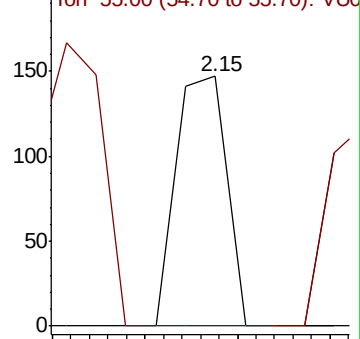
Ion Ratio Lower Upper

56 100

55 142.9 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU028076.D (-224) (-)



#16

Acetone

Concen: 5.650 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028076.D

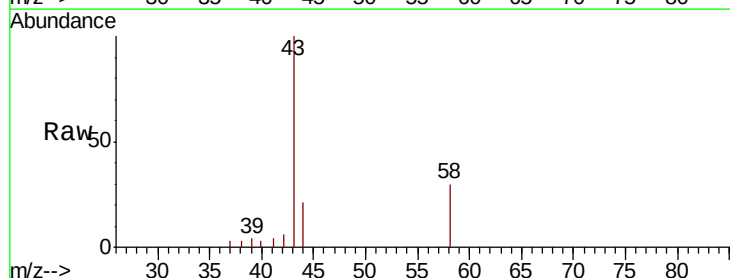
Acq: 12 Nov 2018 19:46

Tgt Ion: 43 Resp: 8841

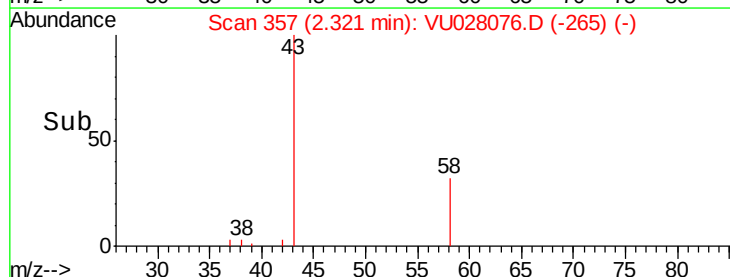
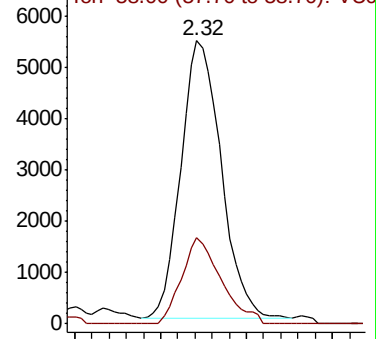
Ion Ratio Lower Upper

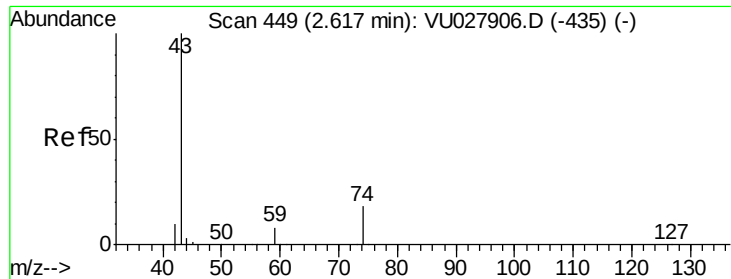
43 100

58 31.0 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VU028076.D (-265) (-)

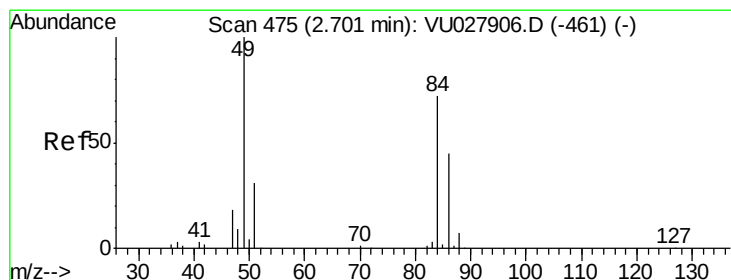
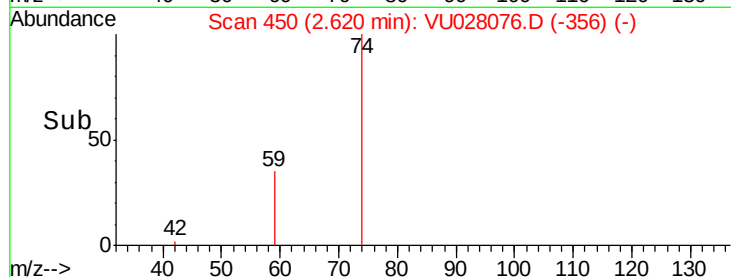
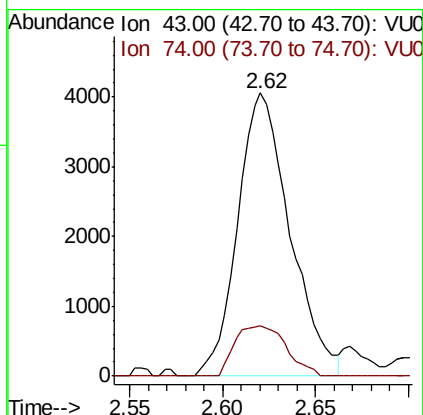
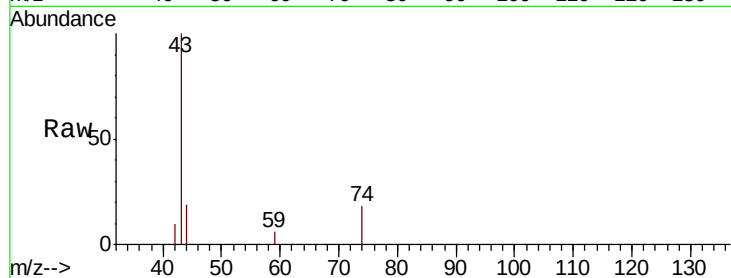




#18
Methyl Acetate
Concen: 1.853 ug/l
RT: 2.62 min Scan# 450
Delta R.T. 0.00 min
Lab File: VU028076.D
Acq: 12 Nov 2018 19:46

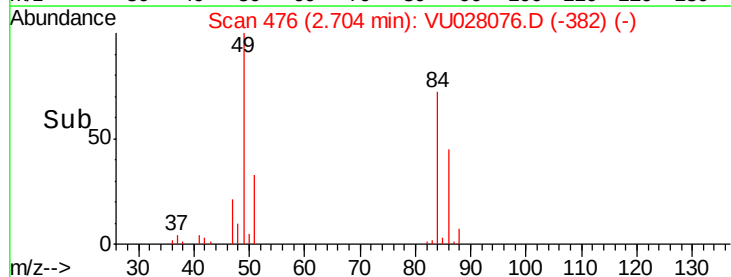
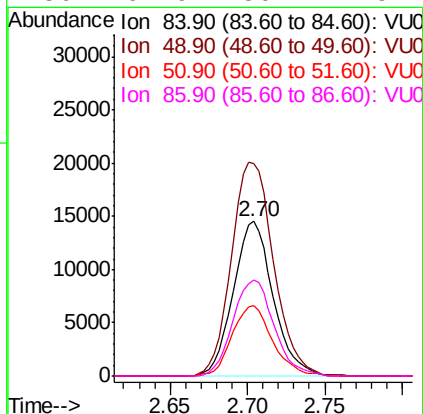
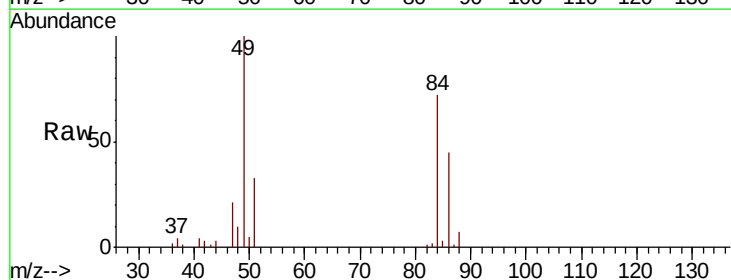
Instrument :
MSVOA_U
ClientSampleId :
W-2

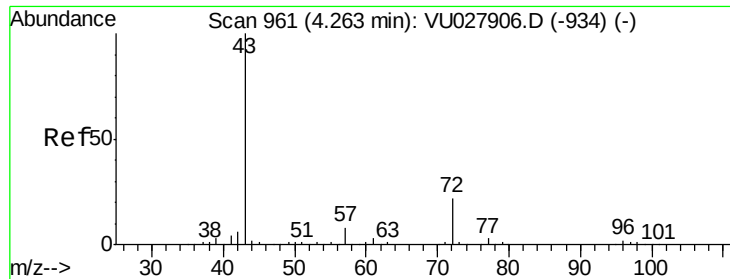
Tot Ion: 43 Resp: 7975
Ion Ratio Lower Upper
43 100
74 17.6 14.9 22.3



#20
Methylene Chloride
Concen: 11.362 ug/l
RT: 2.70 min Scan# 476
Delta R.T. 0.00 min
Lab File: VU028076.D
Acq: 12 Nov 2018 19:46

Tgt Ion: 84 Resp: 25958
Ion Ratio Lower Upper
84 100
49 138.1 111.6 167.4
51 45.8 34.8 52.2
86 61.9 50.1 75.1





#25

2-Butanone

Concen: 1.403 ug/l

RT: 4.29 min Scan# 969

Delta R.T. 0.03 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

Instrument :

MSVOA_U

ClientSampled :

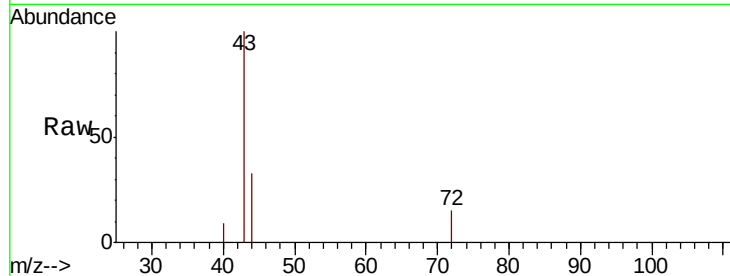
W-2

Tot Ion: 43 Resp: 3493

Ion Ratio Lower Upper

43 100

72 15.5 17.7 26.5#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

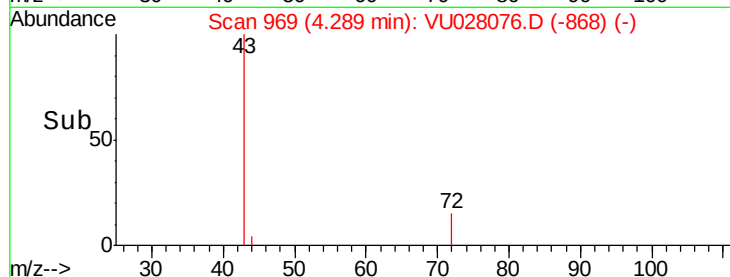
1500

1000

500

0

Time-->



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

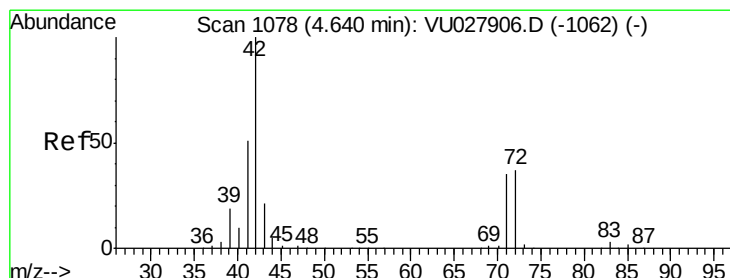
300

200

100

0

Time-->



#29

Tetrahydrofuran

Concen: 0.285 ug/l

RT: 4.66 min Scan# 1083

Delta R.T. 0.02 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

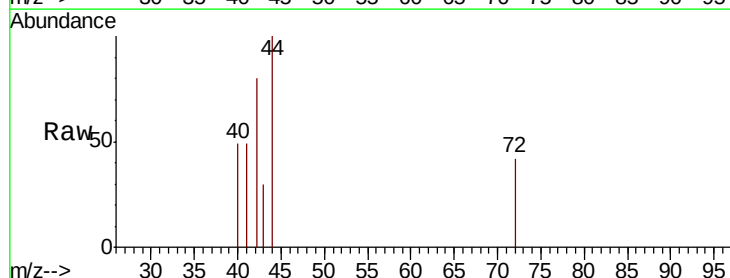
Tgt Ion: 42 Resp: 474

Ion Ratio Lower Upper

42 100

72 28.1 29.4 44.0#

71 0.0 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

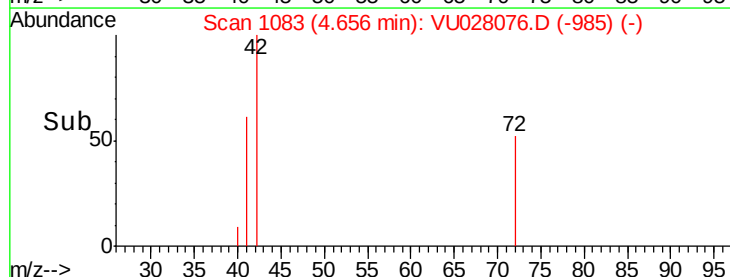
300

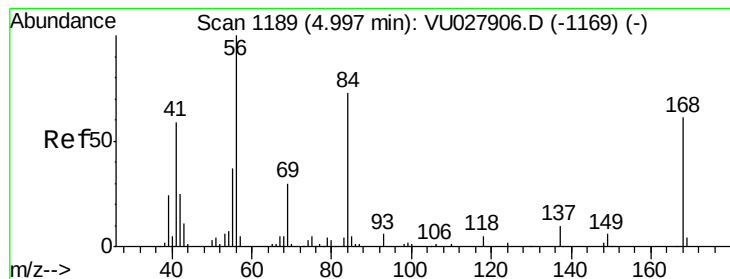
200

100

0

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1187

Delta R.T. -0.01 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

Instrument :

MSVOA_U

ClientSampleId :

W-2

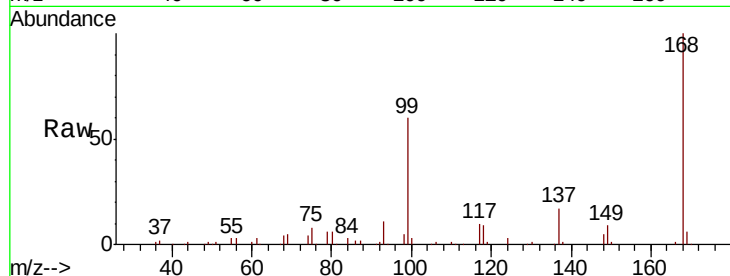
Tot Ion: 56 Resp: 4610

Ion Ratio Lower Upper

56 100

69 153.1 23.7 35.5#

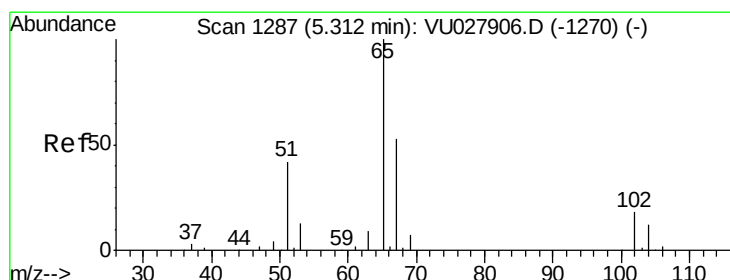
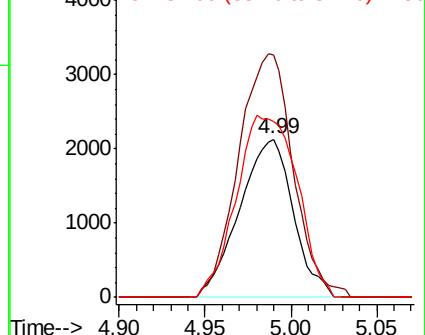
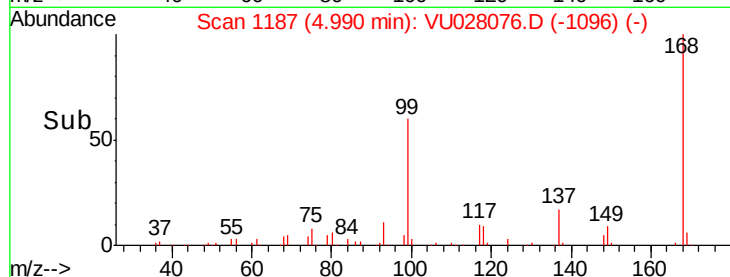
84 111.1 58.2 87.4#



Abundance Ion 56.00 (55.70 to 56.70): VU028076.D (-1096) (-)

Ion 69.00 (68.70 to 69.70): VU028076.D (-1096) (-)

Ion 84.00 (83.70 to 84.70): VU028076.D (-1096) (-)



#33

1,2-Dichloroethane-d4

Concen: 58.706 ug/l

RT: 5.31 min Scan# 1286

Delta R.T. -0.00 min

Lab File: VU028076.D

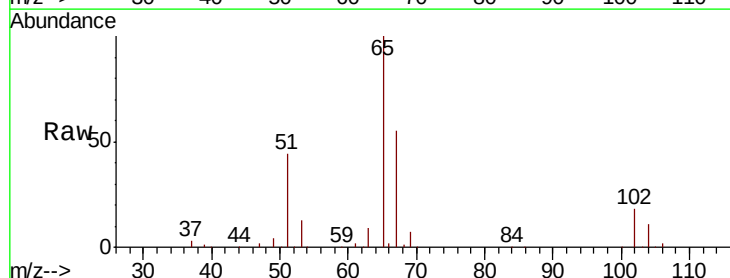
Acq: 12 Nov 2018 19:46

Tgt Ion: 65 Resp: 148052

Ion Ratio Lower Upper

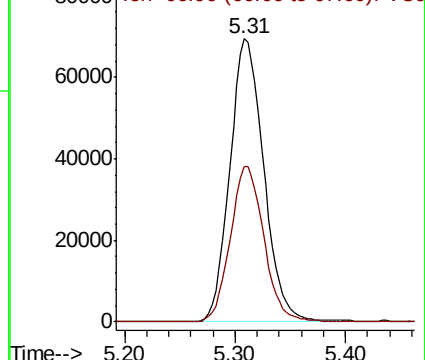
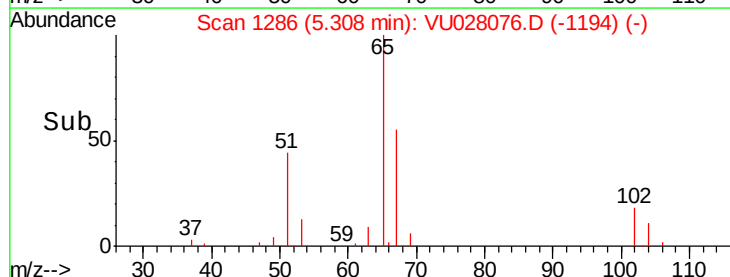
65 100

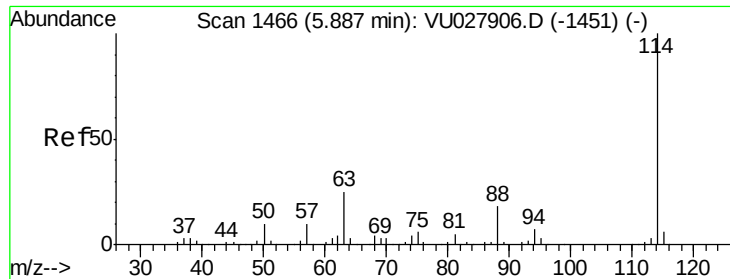
67 54.5 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VU028076.D (-1194) (-)

Ion 66.90 (66.60 to 67.60): VU028076.D (-1194) (-)

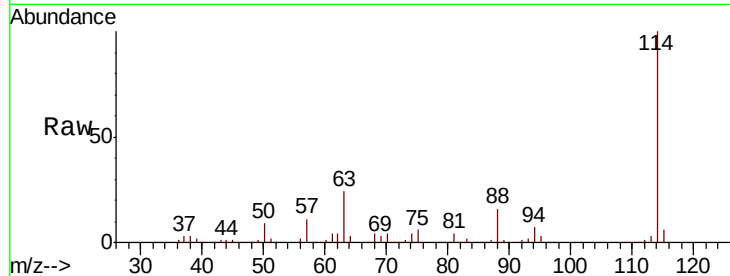




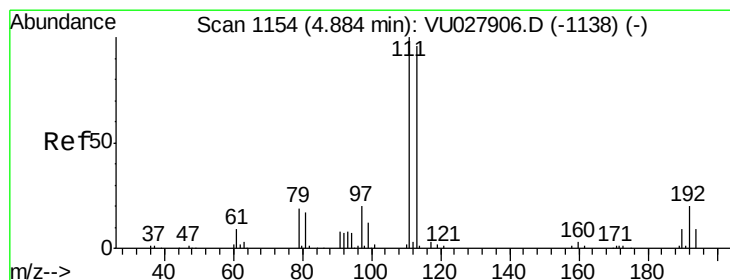
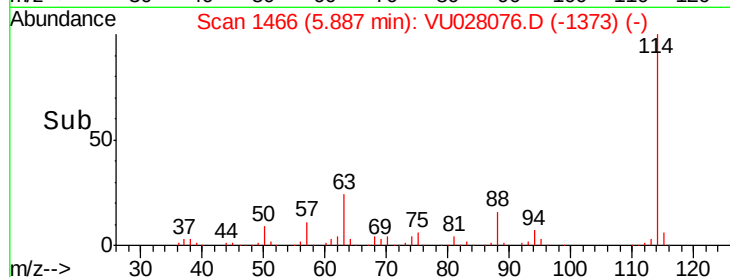
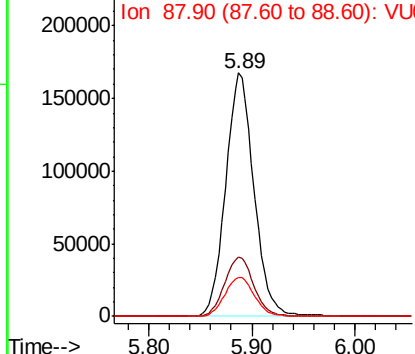
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1466
 Delta R.T. -0.00 min
 Lab File: VU028076.D
 Acq: 12 Nov 2018 19:46

Instrument :
 MSVOA_U
 ClientSampled :
 W-2

Tot Ion:114 Resp: 319933
 Ion Ratio Lower Upper
 114 100
 63 24.4 0.0 50.8
 88 15.9 0.0 35.8

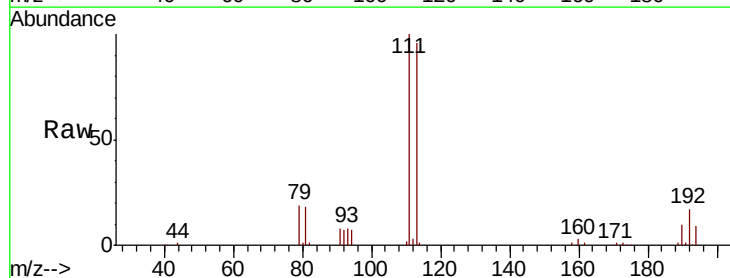


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VU0
 Ion 87.90 (87.60 to 88.60): VU0

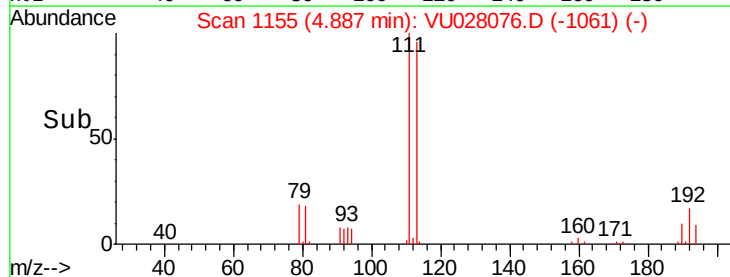
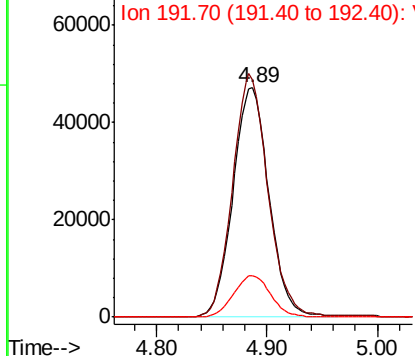


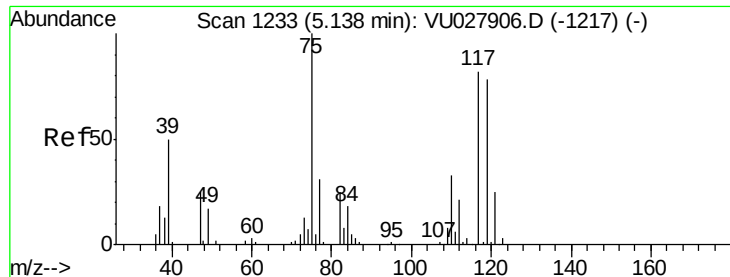
#35
 Dibromofluoromethane
 Concen: 52.876 ug/l
 RT: 4.89 min Scan# 1155
 Delta R.T. 0.00 min
 Lab File: VU028076.D
 Acq: 12 Nov 2018 19:46

Tgt Ion:113 Resp: 106662
 Ion Ratio Lower Upper
 113 100
 111 104.2 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: 4.483 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

Instrument :

MSVOA_U

ClientSampleId :

W-2

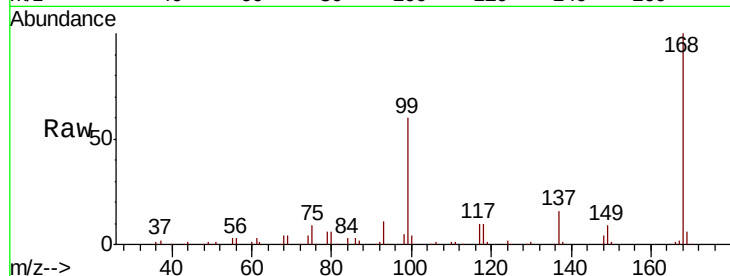
Tot Ion: 75 Resp: 15022

Ion Ratio Lower Upper

75 100

110 7.7 16.5 49.5#

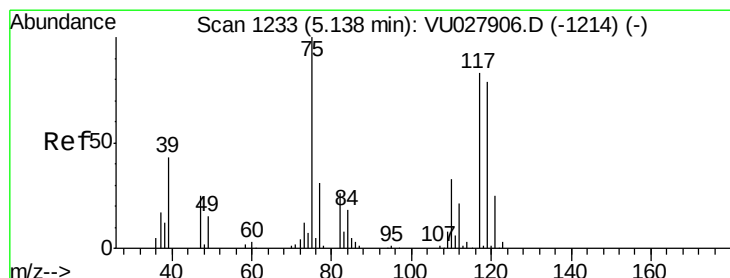
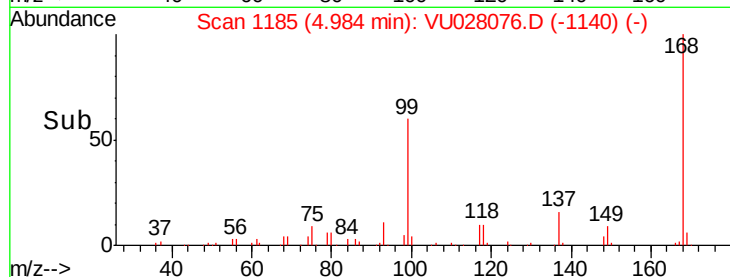
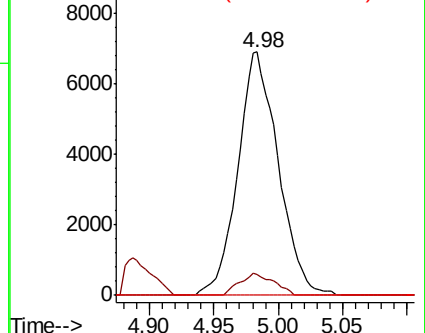
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VU028076.D (-1140) (-)

Ion 109.90 (109.60 to 110.60): VU028076.D (-1140) (-)

Ion 76.90 (76.60 to 77.60): VU028076.D (-1140) (-)



#38

Carbon Tetrachloride

Concen: 5.941 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.15 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

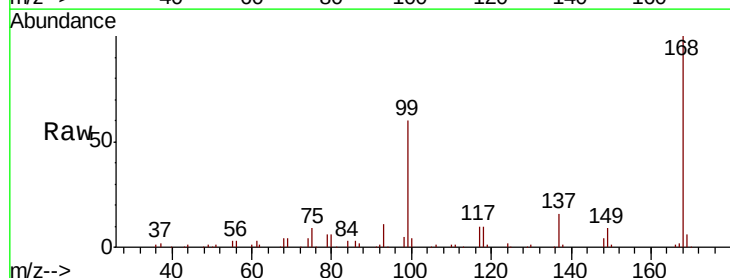
Tgt Ion: 117 Resp: 17643

Ion Ratio Lower Upper

117 100

119 5.3 76.0 114.0#

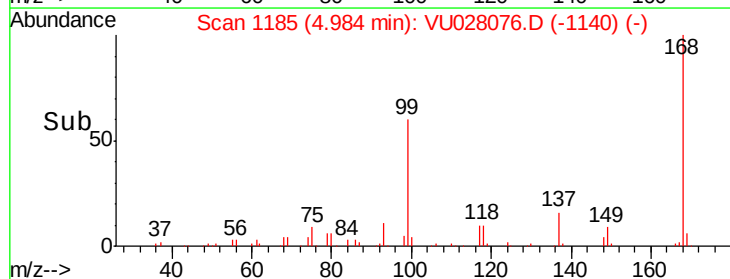
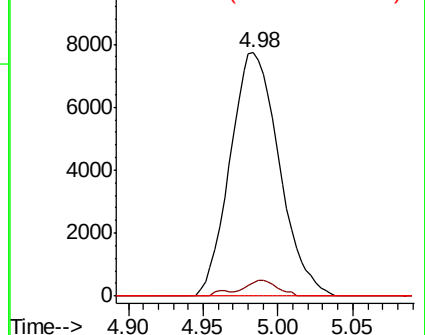
121 0.0 24.5 36.7#

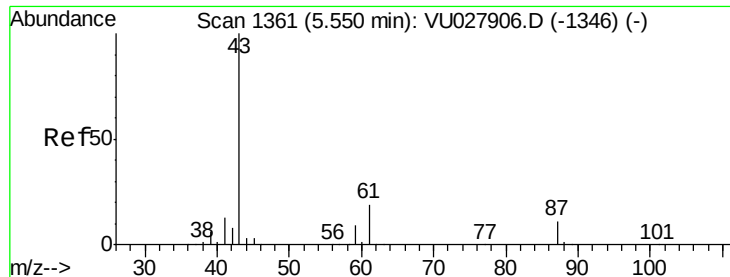


Abundance Ion 116.80 (116.50 to 117.50): VU028076.D (-1140) (-)

Ion 118.80 (118.50 to 119.50): VU028076.D (-1140) (-)

Ion 120.80 (120.50 to 121.50): VU028076.D (-1140) (-)





#43

Isopropyl Acetate

Concen: 26.850 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. -0.00 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

Instrument :

MSVOA_U

ClientSampleId :

W-2

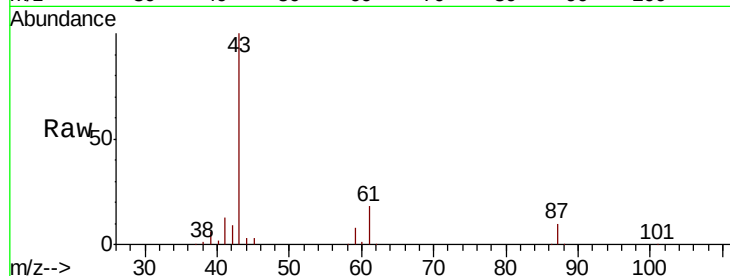
Tot Ion: 43 Resp: 206531

Ion Ratio Lower Upper

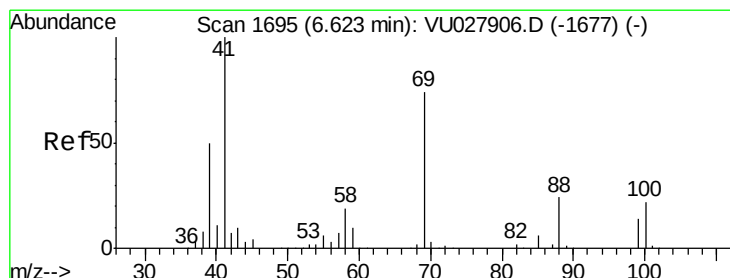
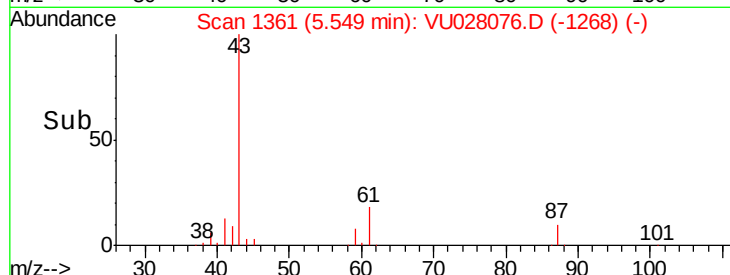
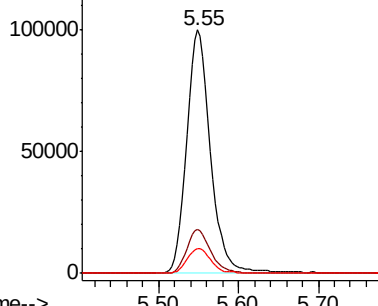
43 100

61 18.2 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



#48

Methyl methacrylate

Concen: 4.617 ug/l

RT: 6.71 min Scan# 1721

Delta R.T. 0.08 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

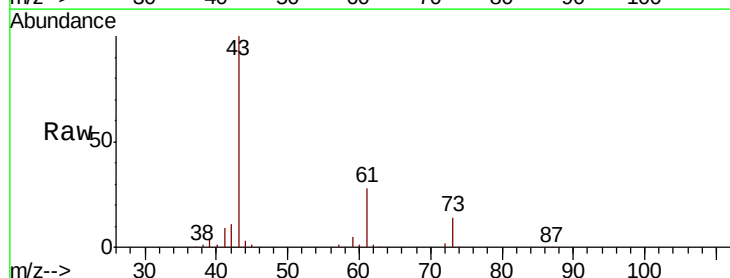
Tgt Ion: 41 Resp: 17402

Ion Ratio Lower Upper

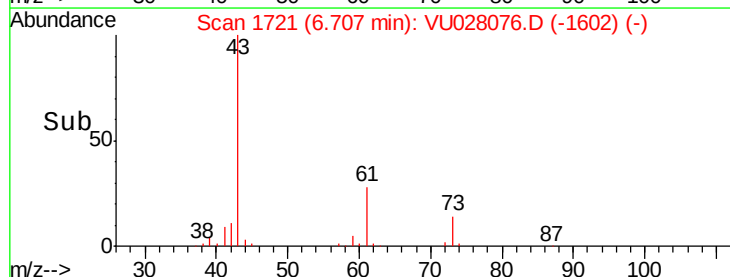
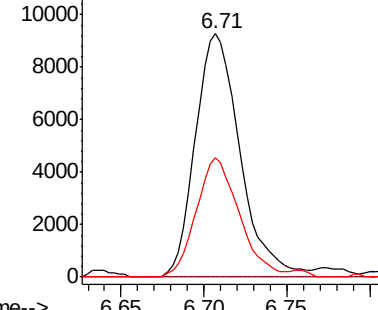
41 100

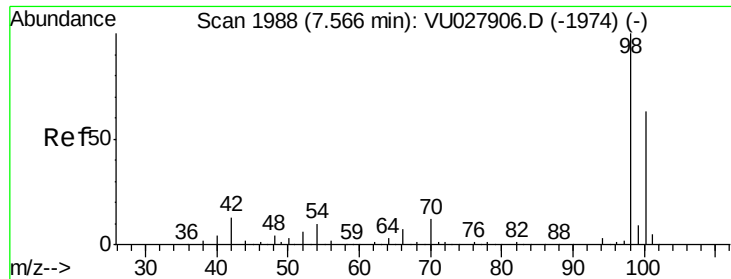
69 0.0 59.8 89.8#

39 47.2 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: 53.344 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

Instrument :

MSVOA_U

ClientSampleId :

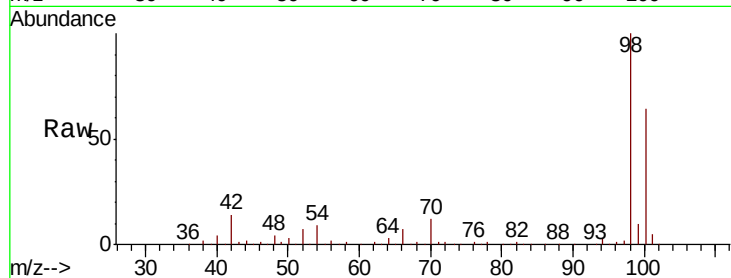
W-2

Tot Ion: 98 Resp: 415673

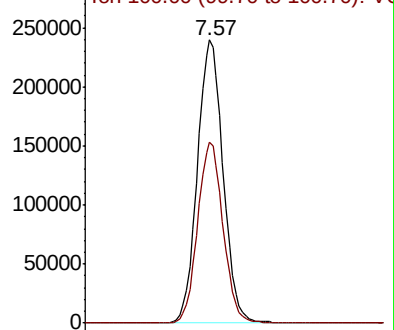
Ion Ratio Lower Upper

98 100

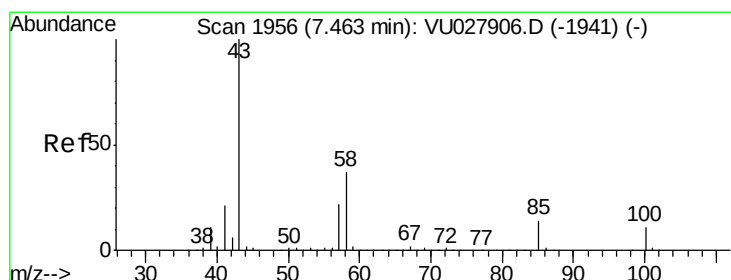
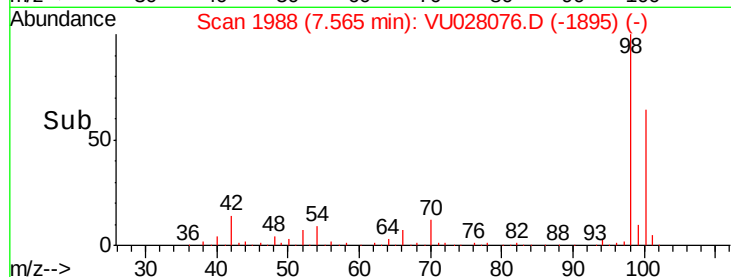
100 63.2 50.1 75.1



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



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.206 ug/l

RT: 7.47 min Scan# 1958

Delta R.T. 0.01 min

Lab File: VU028076.D

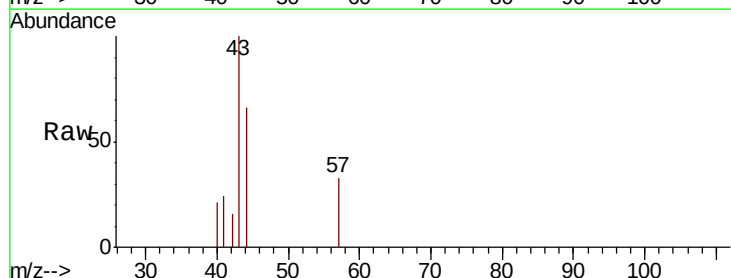
Acq: 12 Nov 2018 19:46

Tgt Ion: 43 Resp: 1059

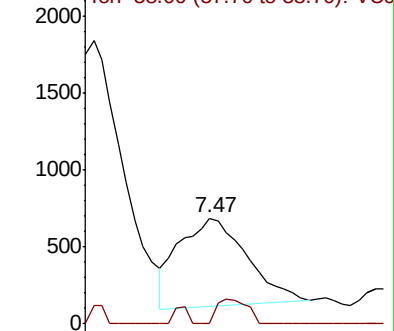
Ion Ratio Lower Upper

43 100

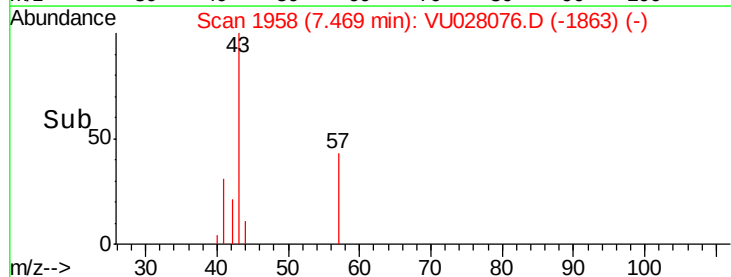
58 12.6 29.5 44.3#

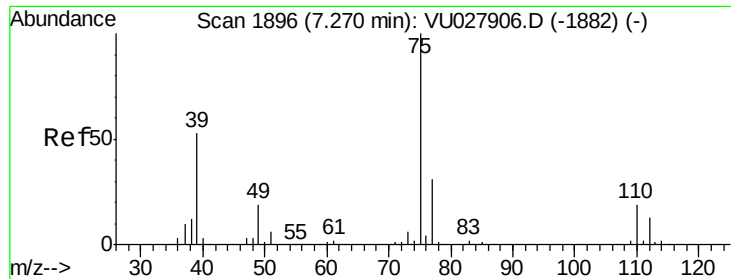


Abundance Ion 43.00 (42.70 to 43.70): VU027906.D (-1941) (-)



Time-->

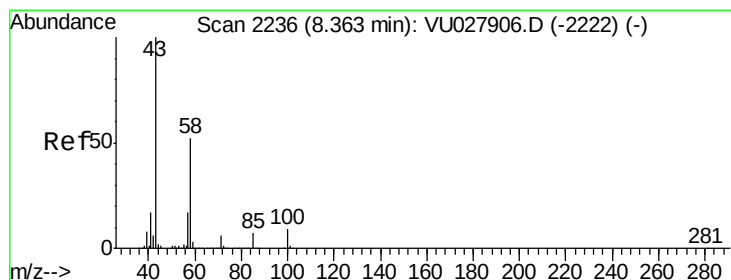
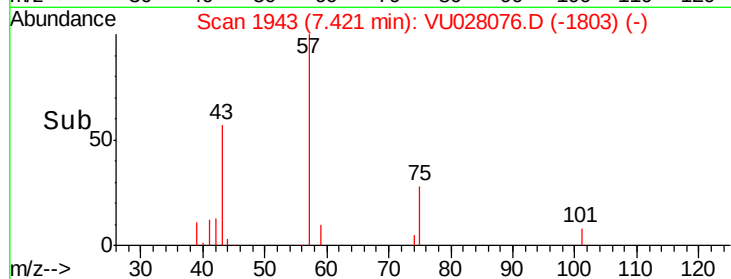
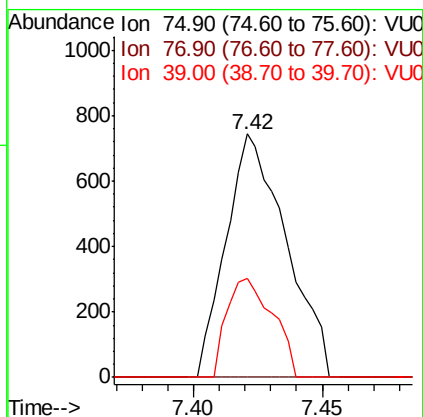
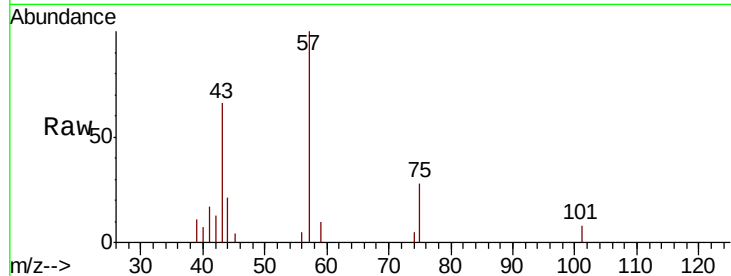




#54
 cis-1,3-Dichloropropene
 Concen: 0.300 ug/l
 RT: 7.42 min Scan# 1943
 Delta R.T. 0.15 min
 Lab File: VU028076.D
 Acq: 12 Nov 2018 19:46

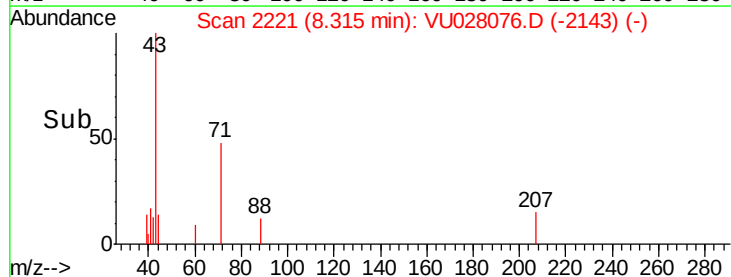
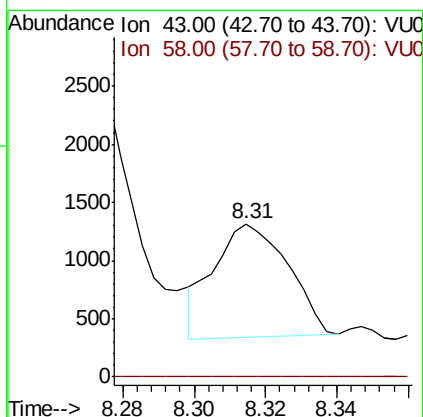
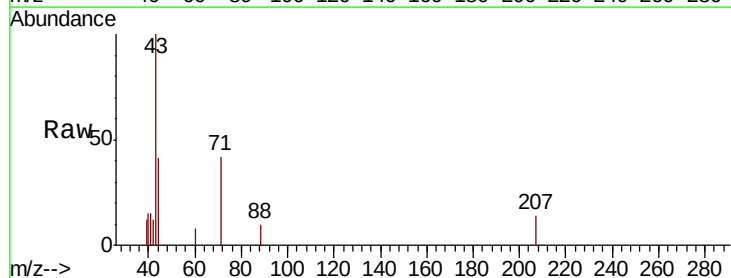
Instrument :
 MSVOA_U
 ClientSampled :
 W-2

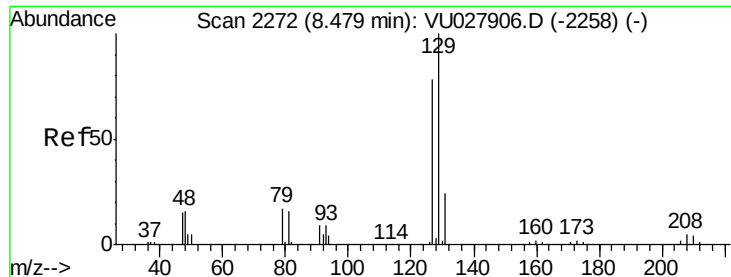
Tot Ion: 75 Resp: 1209
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.6 37.0#
 39 40.6 42.6 64.0#



#59
 2-Hexanone
 Concen: 0.354 ug/l
 RT: 8.31 min Scan# 2221
 Delta R.T. -0.05 min
 Lab File: VU028076.D
 Acq: 12 Nov 2018 19:46

Tgt Ion: 43 Resp: 1407
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.8 77.3#

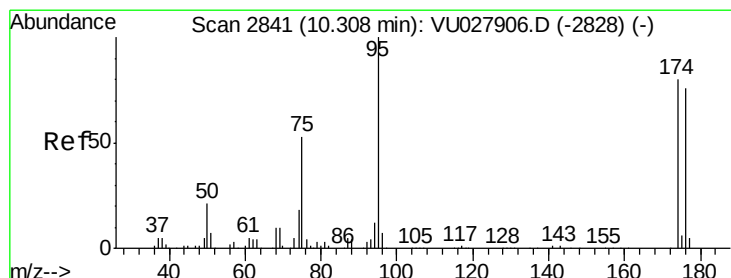
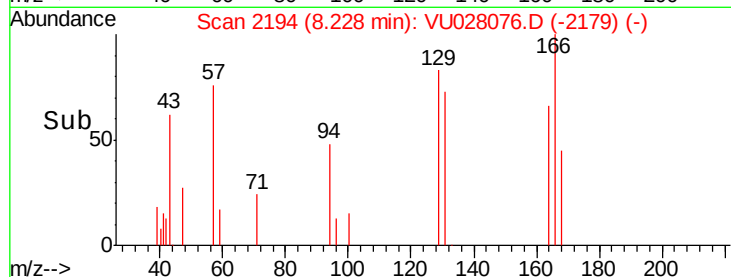
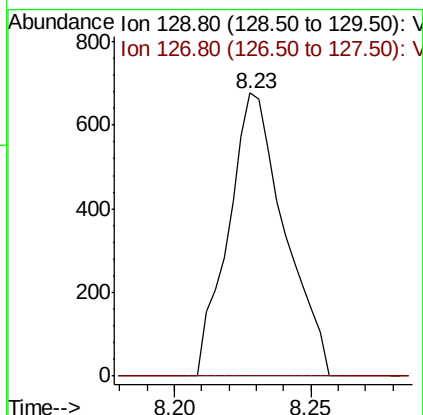
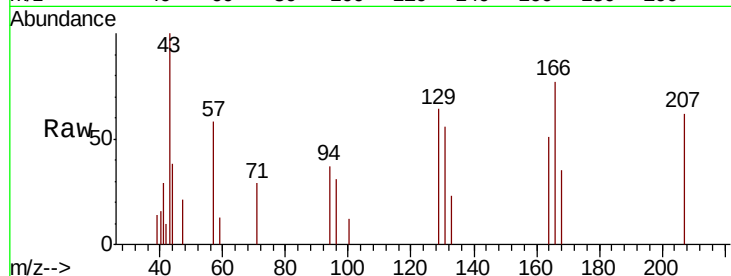




#60
Dibromochloromethane
Concen: 0.418 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.25 min
Lab File: VU028076.D
Acq: 12 Nov 2018 19:46

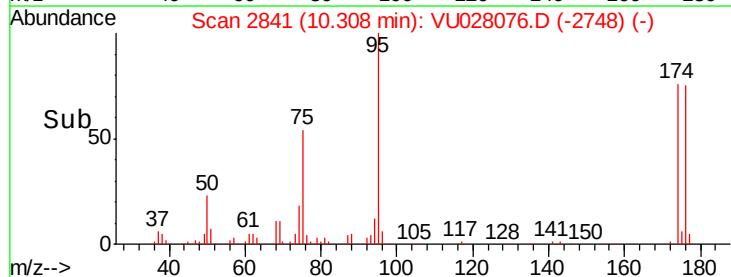
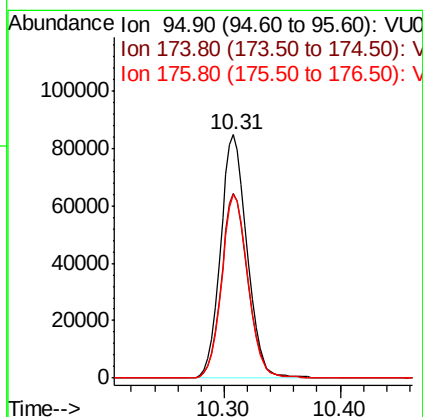
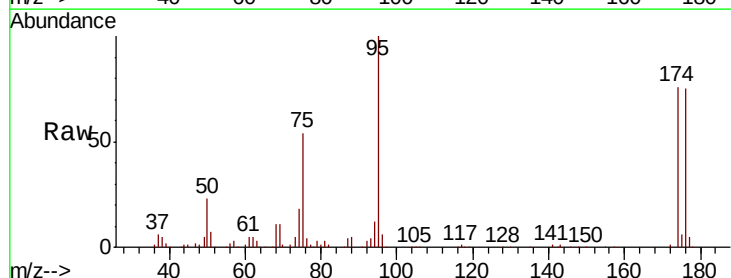
Instrument :
MSVOA_U
ClientSampled :
W-2

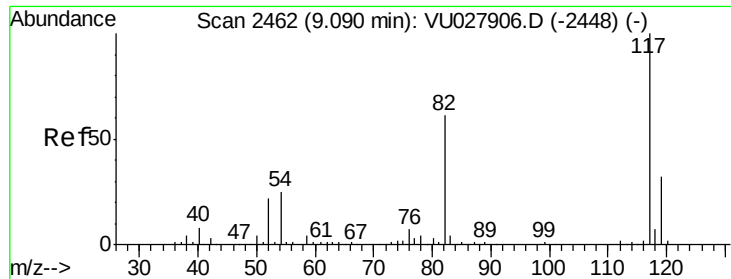
Tot Ion:129 Resp: 970
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#



#62
4-Bromofluorobenzene
Concen: 46.829 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028076.D
Acq: 12 Nov 2018 19:46

Tgt Ion: 95 Resp: 134595
Ion Ratio Lower Upper
95 100
174 75.7 0.0 156.4
176 74.7 0.0 150.8

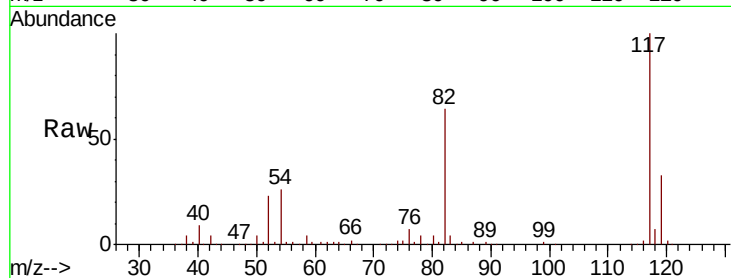




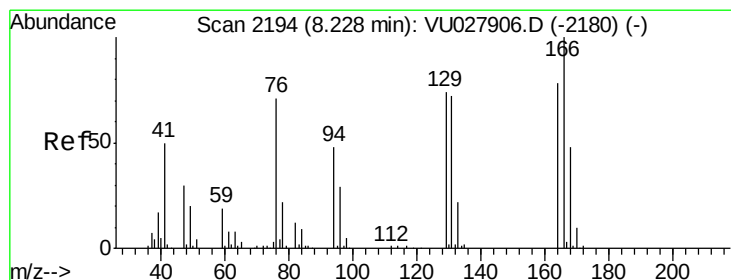
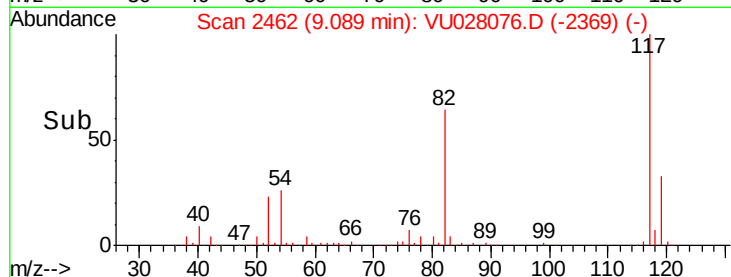
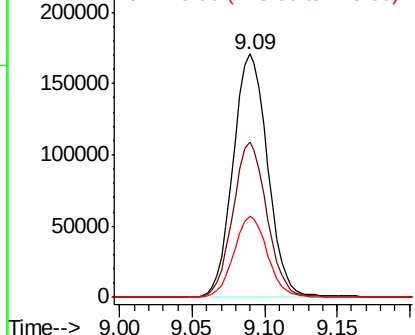
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028076.D
Acq: 12 Nov 2018 19:46

Instrument :
MSVOA_U
ClientSampleId :
W-2

Tot Ion:117 Resp: 283116
Ion Ratio Lower Upper
117 100
82 64.0 48.6 73.0
119 33.1 25.8 38.8

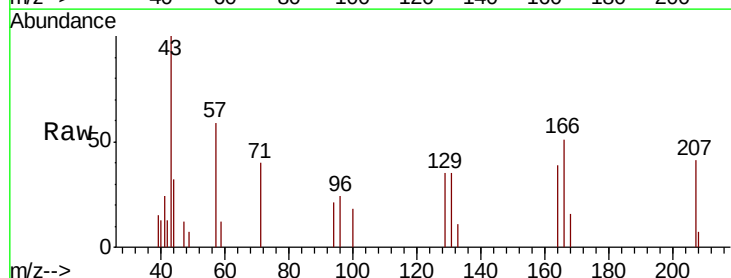


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU0
Ion 118.90 (118.60 to 119.60): V

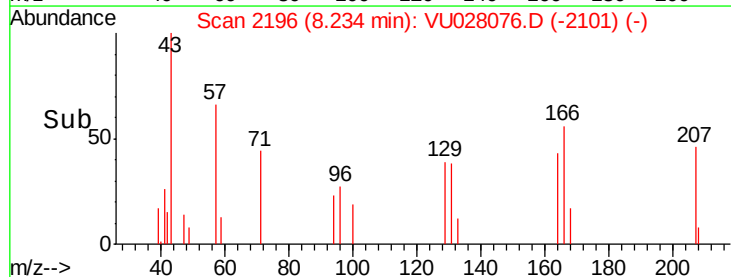
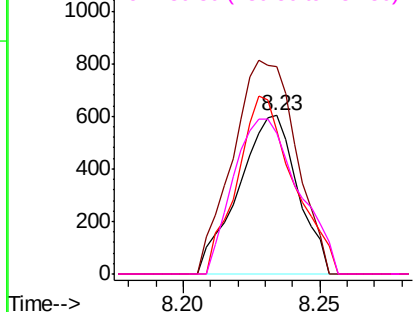


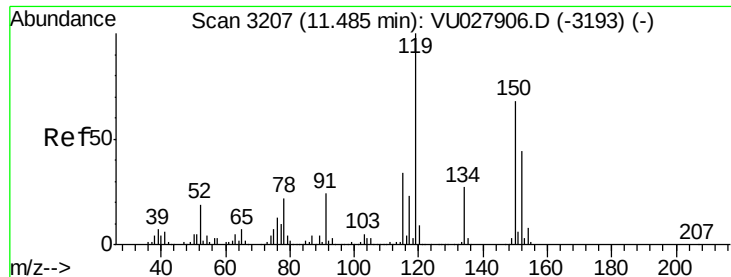
#64
Tetrachloroethene
Concen: 0.492 ug/l
RT: 8.23 min Scan# 2196
Delta R.T. 0.01 min
Lab File: VU028076.D
Acq: 12 Nov 2018 19:46

Tgt Ion:164 Resp: 904
Ion Ratio Lower Upper
164 100
166 130.9 102.1 153.1
129 90.5 75.9 113.9
131 88.7 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



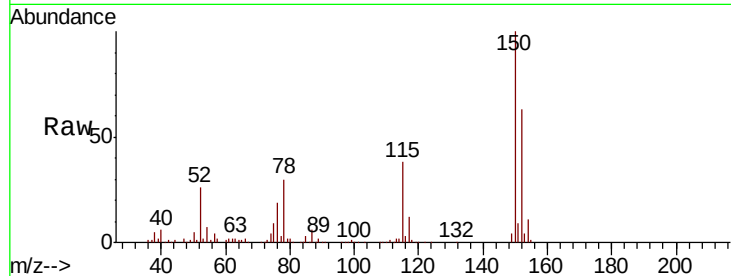


#72

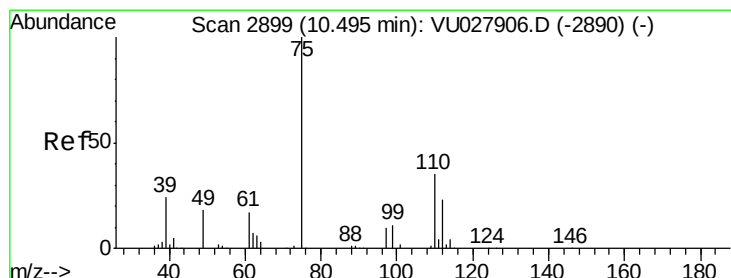
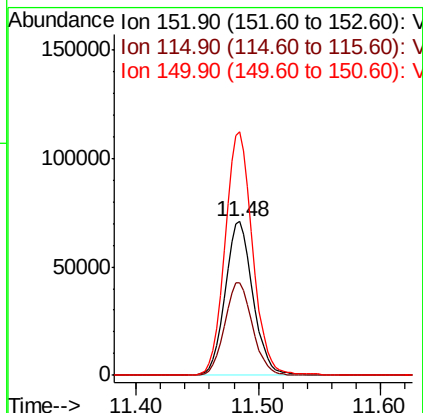
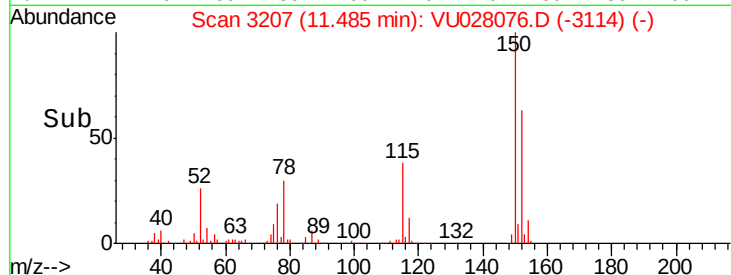
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028076.D
Acq: 12 Nov 2018 19:46

Instrument :
MSVOA_U
ClientSampleId :
W-2

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.7	43.0	129.0
150	157.4	0.0	349.4



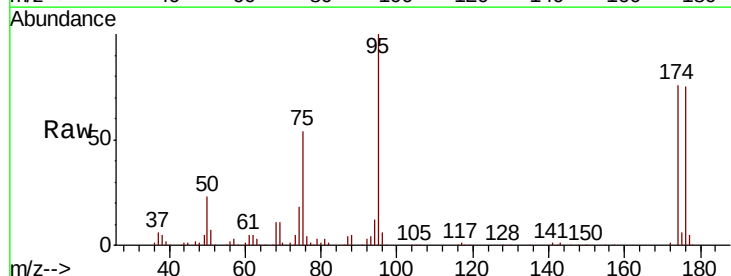
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



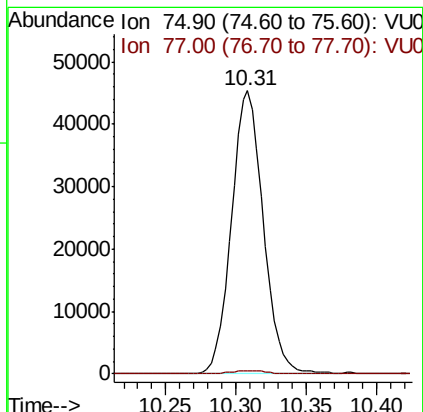
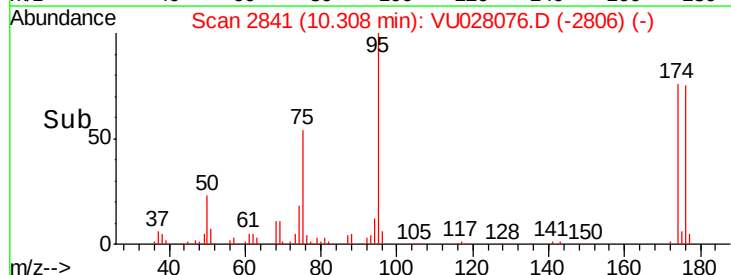
#76

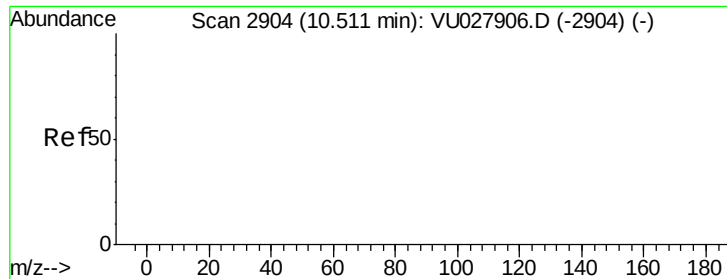
1,2,3-Trichloropropane
Concen: 23.158 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU028076.D
Acq: 12 Nov 2018 19:46

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: 57.779 ug/l

RT: 10.31 min Scan# 2841

Delta R.T. -0.20 min

Lab File: VU028076.D

Acq: 12 Nov 2018 19:46

Instrument :

MSVOA_U

ClientSampleId :

W-2

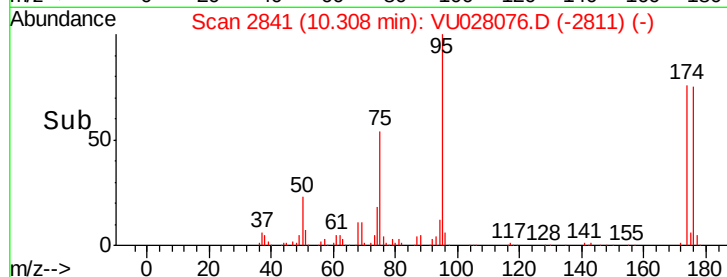
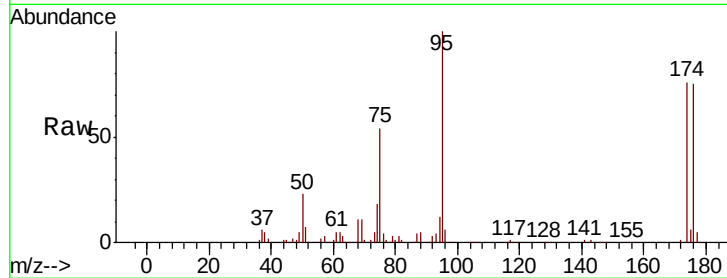
Tot Ion: 75 Resp: 71729

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

