

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U111318\
 Data File : VU028091.D
 Acq On : 13 Nov 2018 14:53
 Operator : MD/SY
 Sample : J5885-04DL2 500X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Nov 14 06:58:39 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	272743	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	496455	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	436279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	174060	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	209500	51.66	ug/l	0.00
Spiked Amount			Recovery	=	103.32%	
35) Dibromofluoromethane	4.88	113	160082	51.14	ug/l	0.00
Spiked Amount			Recovery	=	102.28%	
50) Toluene-d8	7.57	98	637612	52.73	ug/l	0.00
Spiked Amount			Recovery	=	105.46%	
62) 4-Bromofluorobenzene	10.31	95	204782	45.92	ug/l	0.00
Spiked Amount			Recovery	=	91.84%	

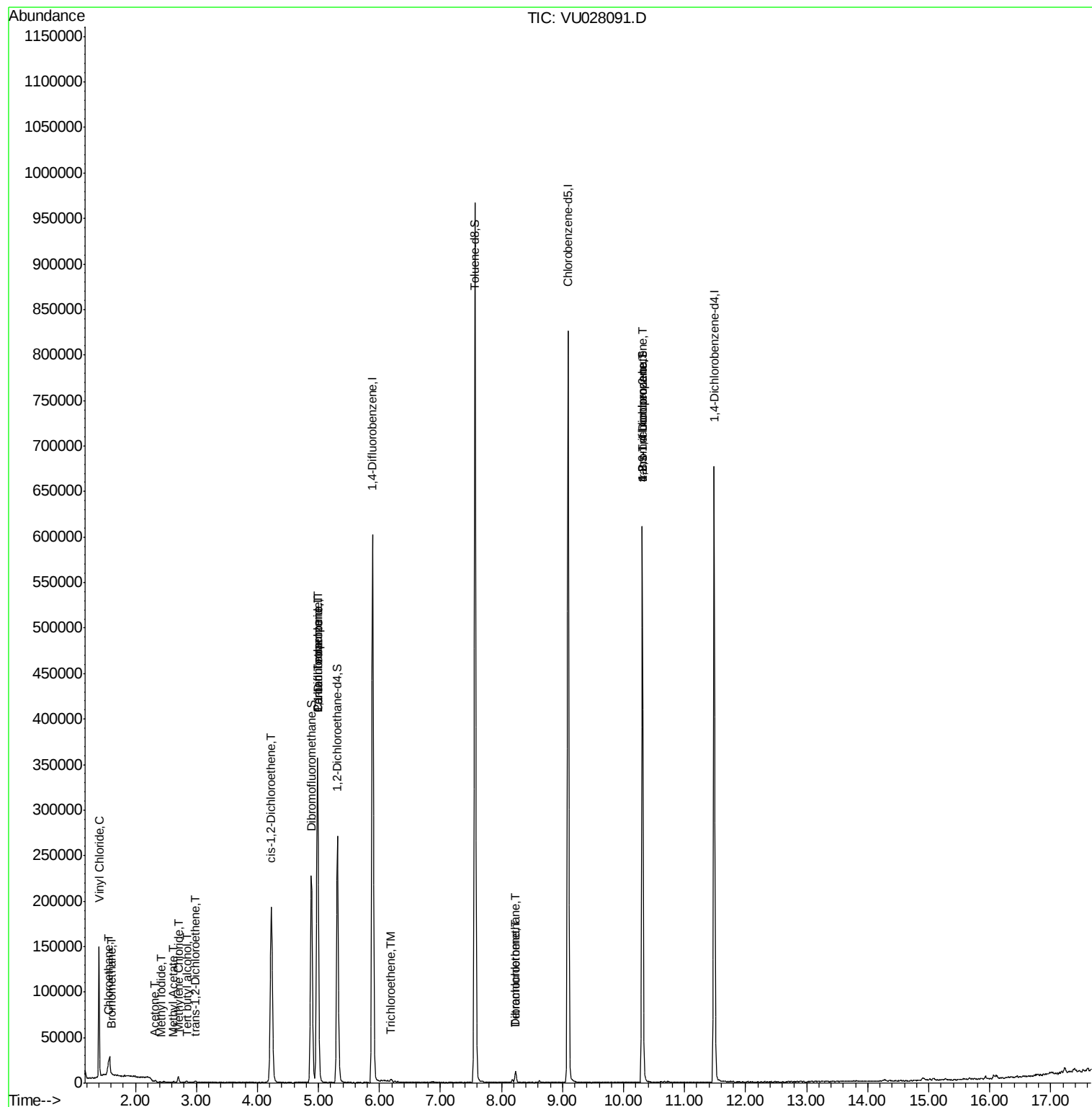
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.41	62	88856	21.359	ug/l	99
5) Bromomethane	1.62	94	317	0.228	ug/l #	64
6) Chloroethane	1.56	64	1972	0.823	ug/l #	81
10) Methyl Iodide	2.42	142	117	7.797	ug/l #	40
11) Tert butyl alcohol	2.84	59	858	0.799	ug/l #	73
13) Acrolein	2.20	56	143	Below Cal	#	15
16) Acetone	2.32	43	1465	0.582	ug/l #	85
18) Methyl Acetate	2.63	43	1677	0.242	ug/l #	58
20) Methylene Chloride	2.70	84	2545	0.693	ug/l #	86
21) trans-1,2-Dichloroethene	2.99	96	661	0.200	ug/l #	91
27) cis-1,2-Dichloroethene	4.23	96	106492	28.787	ug/l	87
31) Cyclohexane	4.99	56	5768	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	22474	4.322	ug/l #	49
38) Carbon Tetrachloride	4.99	117	26101	5.664	ug/l #	17
44) Trichloroethene	6.19	130	1201	0.351	ug/l	58
60) Dibromochloromethane	8.23	129	2923	0.812	ug/l #	10
64) Tetrachloroethene	8.23	164	2559	0.905	ug/l	87
76) 1,2,3-Trichloropropane	10.31	75	104681	21.987	ug/l #	34
81) trans-1,4-Dichloro-2-buten	10.31	75	104681	54.871	ug/l #	100
95) Naphthalene	13.76	128	419	Below Cal	#	69

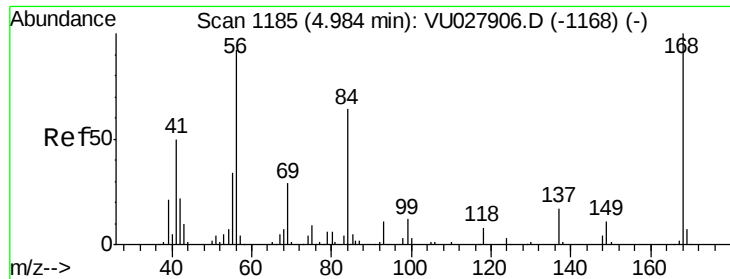
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampled :

Quant Time: Nov 14 06:58:39 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U110218W.M
Quant Title : SW846 8260
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: VU028091.D

Acq: 13 Nov 2018 14:53

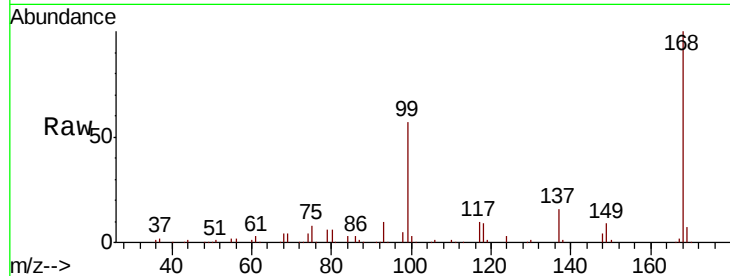
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 272743

Ion Ratio Lower Upper

168 100

99 57.2 47.9 71.9



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

Ion 98.90 (98.60 to 99.60): VU028091.D (-1092) (-)

4.99

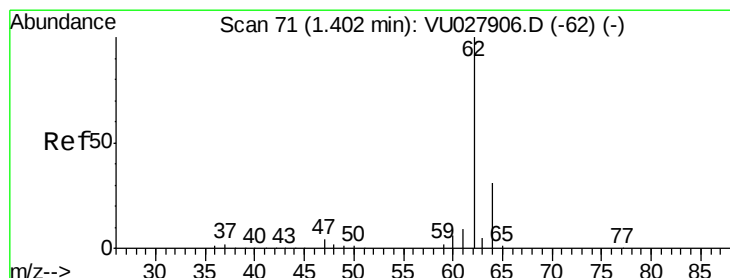
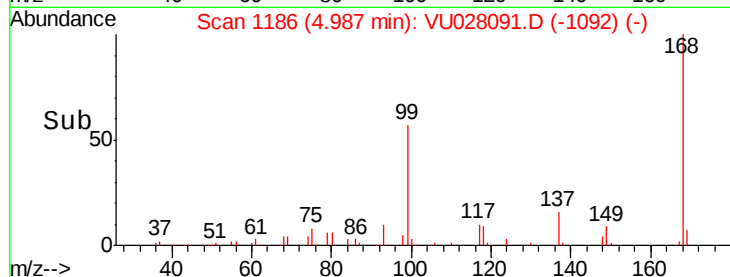
100000

50000

0

Time-->

4.90 5.00 5.10



#4

Vinyl Chloride

Concen: 21.359 ug/l

RT: 1.41 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU028091.D

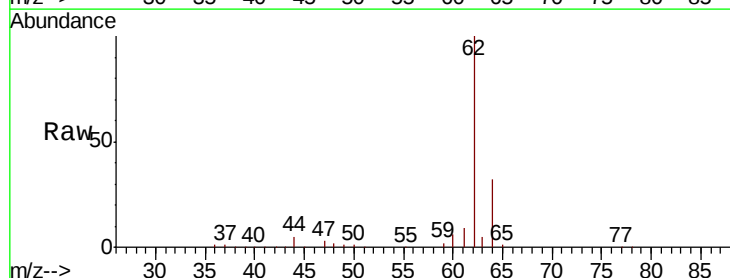
Acq: 13 Nov 2018 14:53

Tgt Ion: 62 Resp: 88856

Ion Ratio Lower Upper

62 100

64 31.1 25.2 37.8



Abundance Ion 61.90 (61.60 to 62.60): VU027906.D (-62) (-)

Ion 63.90 (63.60 to 64.60): VU028091.D (-1) (-)

1.41

100000

80000

60000

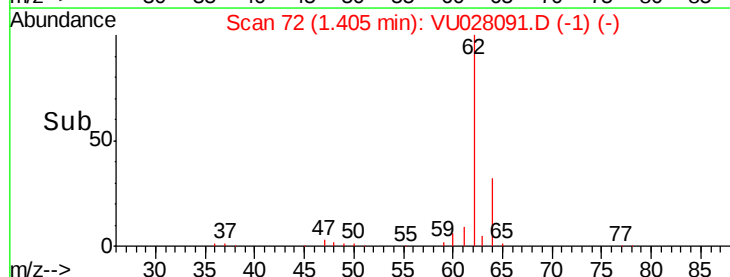
40000

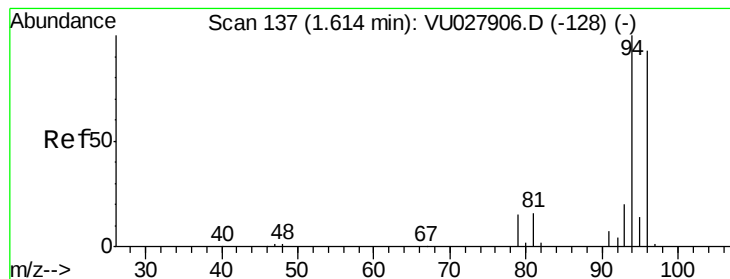
20000

0

Time-->

1.35 1.40 1.45





#5

Bromomethane

Concen: 0.228 ug/l

RT: 1.62 min Scan# 139

Delta R.T. 0.01 min

Lab File: VU028091.D

Acq: 13 Nov 2018 14:53

Instrument :

MSVOA_U

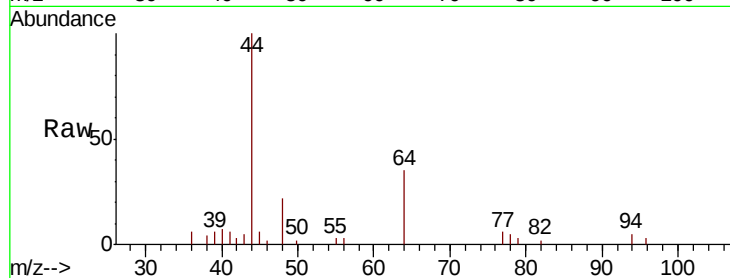
ClientSampled :

Tot Ion: 94 Resp: 317

Ion Ratio Lower Upper

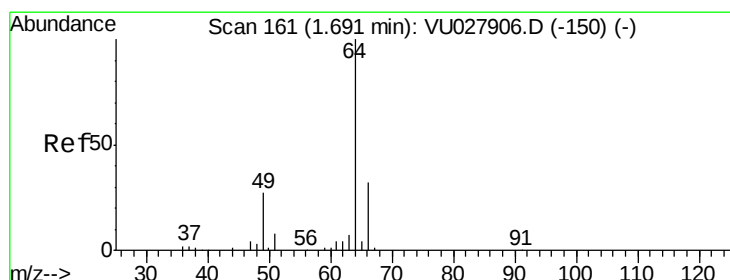
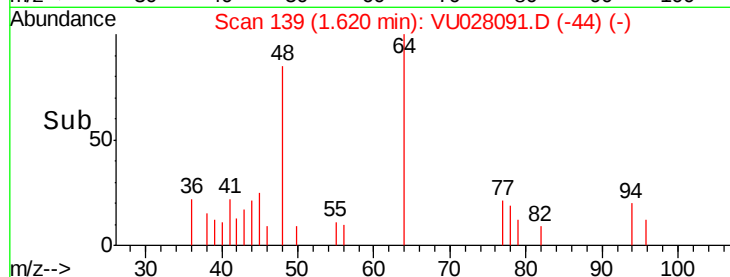
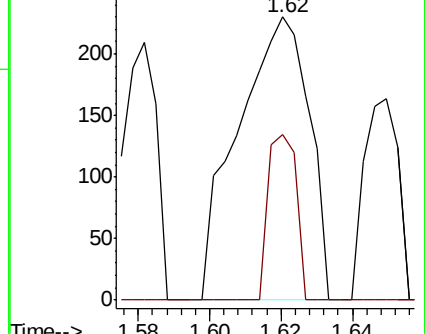
94 100

96 58.7 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 0.823 ug/l

RT: 1.56 min Scan# 120

Delta R.T. -0.13 min

Lab File: VU028091.D

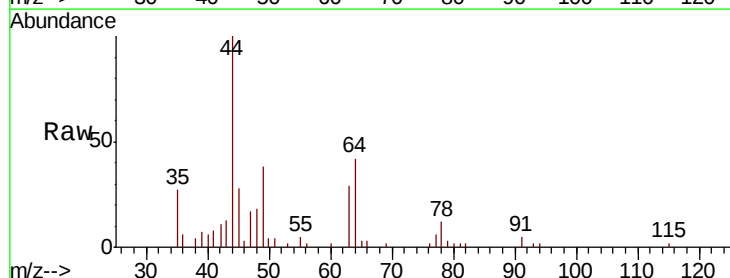
Acq: 13 Nov 2018 14:53

Tgt Ion: 64 Resp: 1972

Ion Ratio Lower Upper

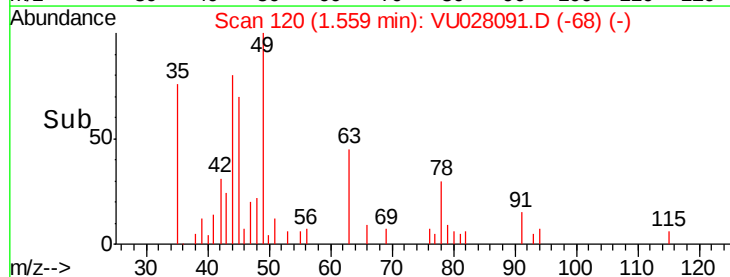
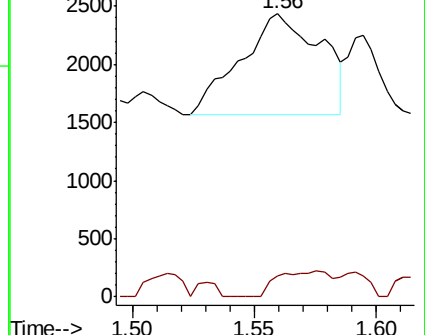
64 100

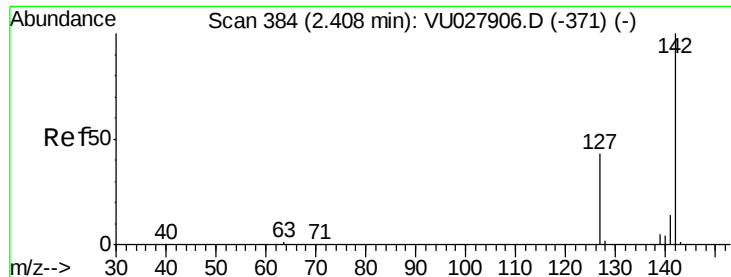
66 21.5 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

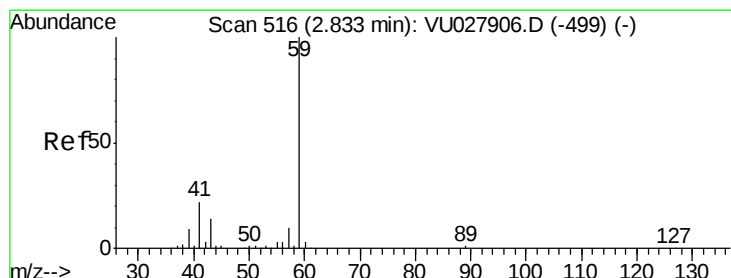
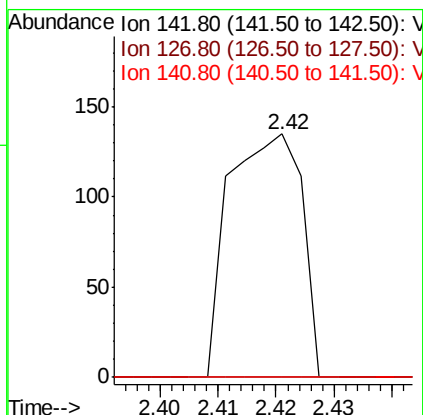
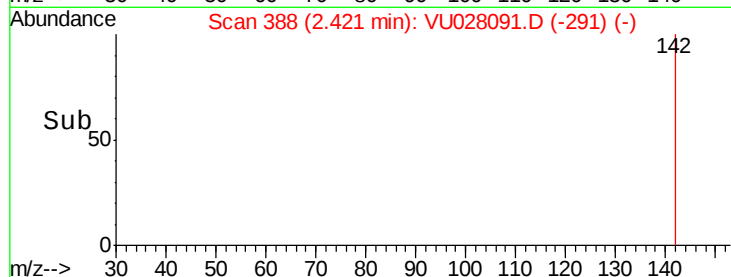
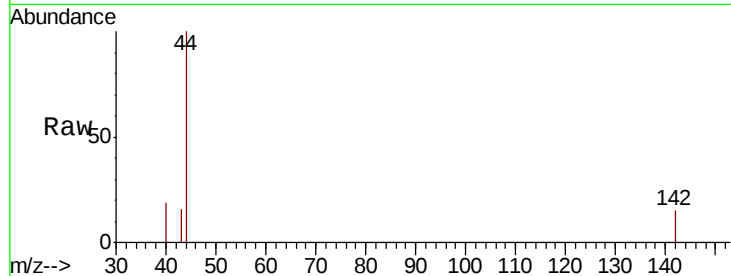




#10
Methyl Iodide
Concen: 7.797 ug/l
RT: 2.42 min Scan# 388
Delta R.T. 0.01 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

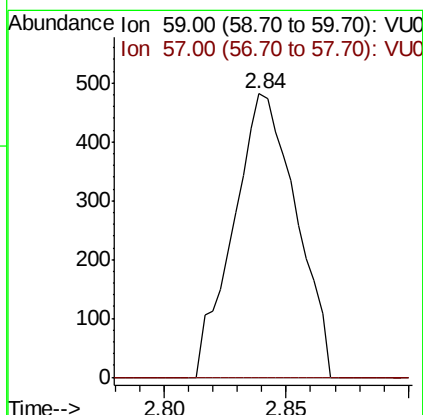
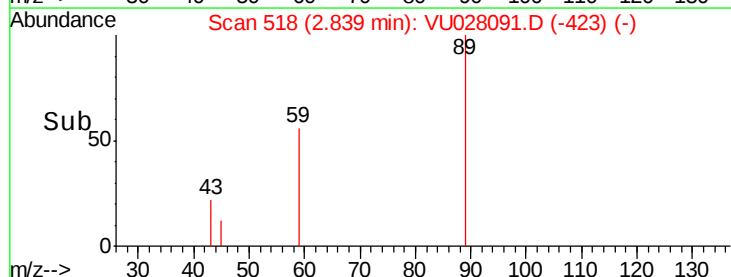
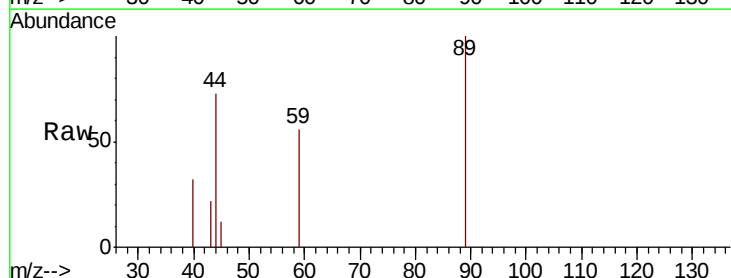
Instrument :
MSVOA_U
ClientSampled :

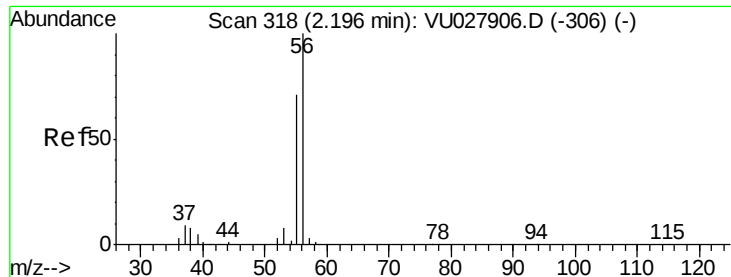
Tot Ion:142 Resp: 117
Ion Ratio Lower Upper
142 100
127 0.0 35.2 52.8#
141 0.0 11.8 17.8#



#11
Tert butyl alcohol
Concen: 0.799 ug/l
RT: 2.84 min Scan# 518
Delta R.T. 0.01 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Tgt Ion: 59 Resp: 858
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#13

Acrolein

Concen: Below Cal

RT: 2.20 min Scan# 320

Delta R.T. 0.01 min

Lab File: VU028091.D

Acq: 13 Nov 2018 14:53

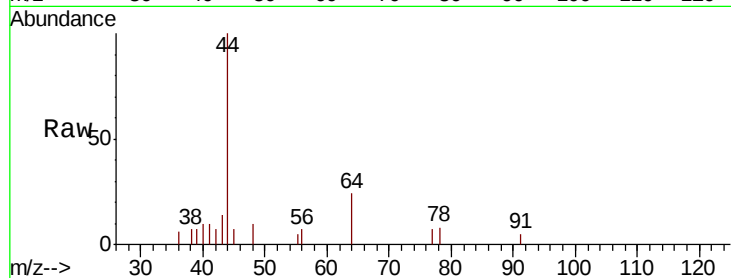
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 143

Ion Ratio Lower Upper

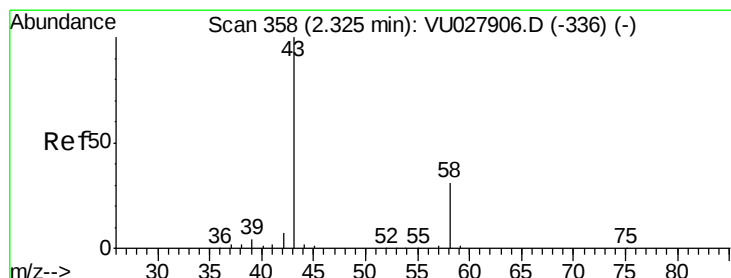
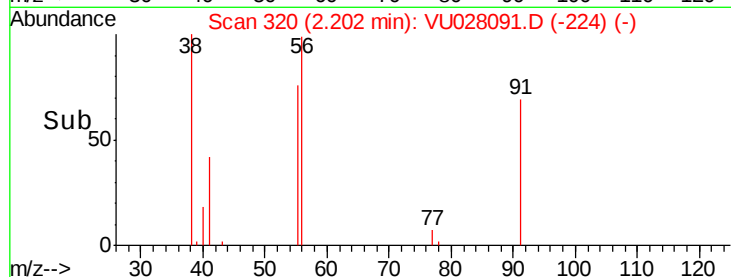
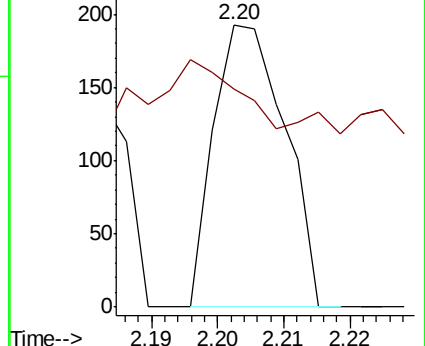
56 100

55 0.0 56.2 84.4#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 0.582 ug/l

RT: 2.32 min Scan# 357

Delta R.T. -0.00 min

Lab File: VU028091.D

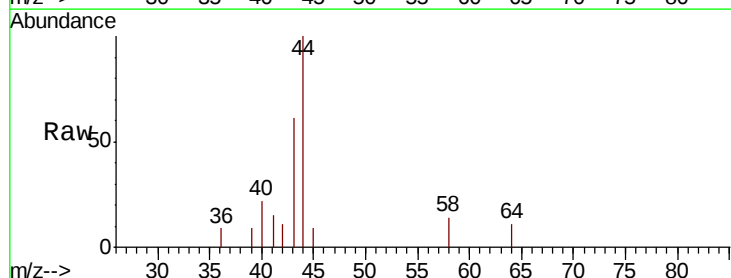
Acq: 13 Nov 2018 14:53

Tgt Ion: 43 Resp: 1465

Ion Ratio Lower Upper

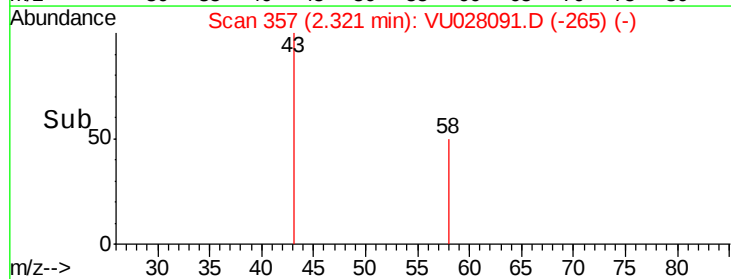
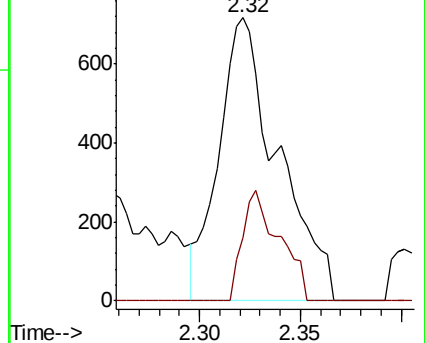
43 100

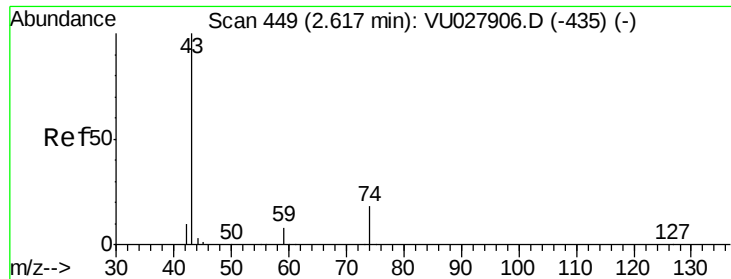
58 22.5 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

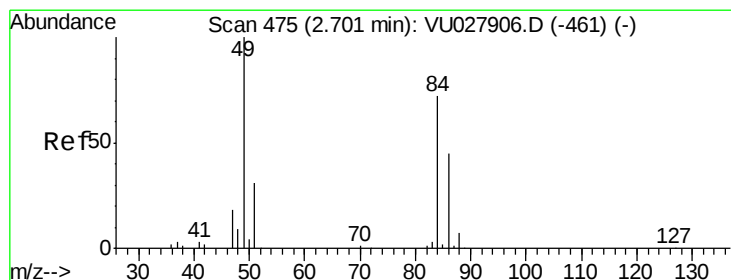
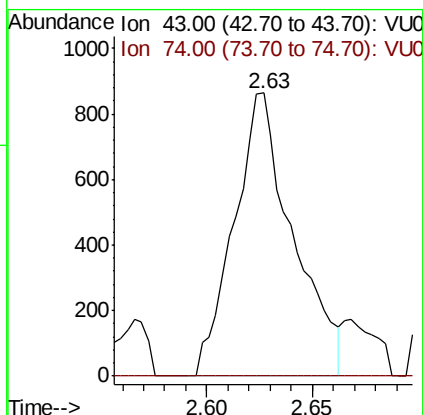
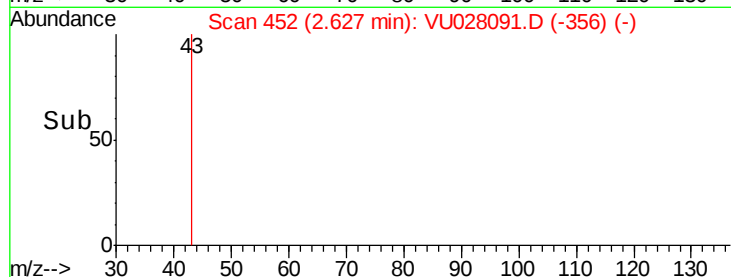
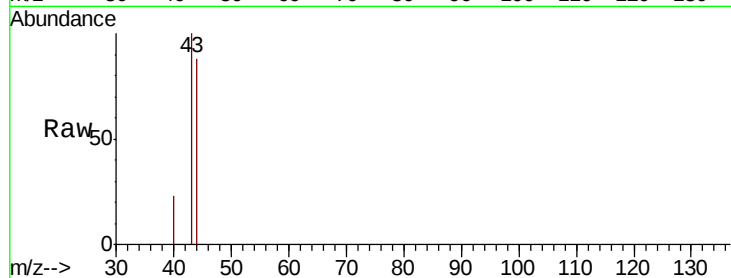




#18
Methyl Acetate
Concen: 0.242 ug/l
RT: 2.63 min Scan# 452
Delta R.T. 0.01 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

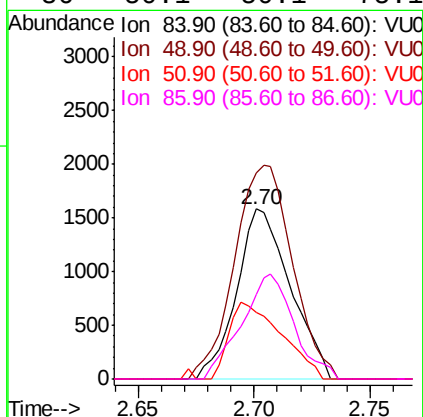
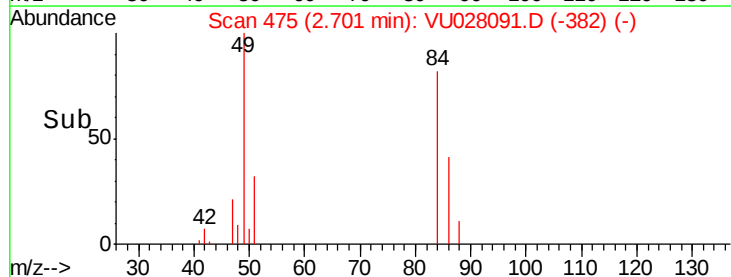
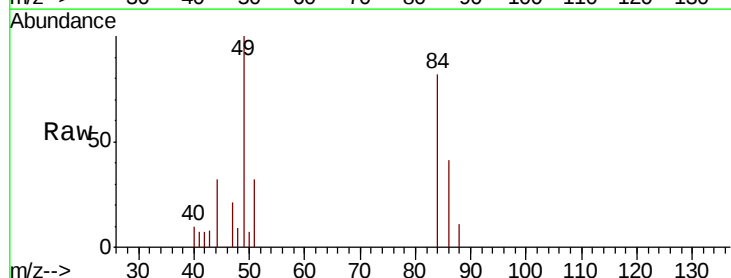
Instrument :
MSVOA_U
ClientSampleId :

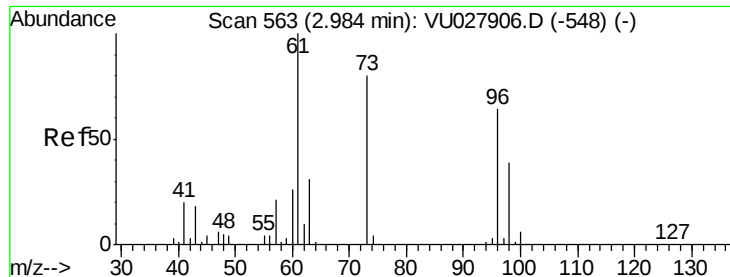
Tot Ion: 43 Resp: 1677
Ion Ratio Lower Upper
43 100
74 0.0 14.9 22.3#



#20
Methylene Chloride
Concen: 0.693 ug/l
RT: 2.70 min Scan# 475
Delta R.T. 0.00 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Tgt Ion: 84 Resp: 2545
Ion Ratio Lower Upper
84 100
49 121.3 111.6 167.4
51 39.1 34.8 52.2
86 50.1 50.1 75.1





#21

trans-1,2-Dichloroethene

Concen: 0.200 ug/l

RT: 2.99 min Scan# 564

Delta R.T. 0.00 min

Lab File: VU028091.D

Acq: 13 Nov 2018 14:53

Instrument :

MSVOA_U

ClientSampleId :

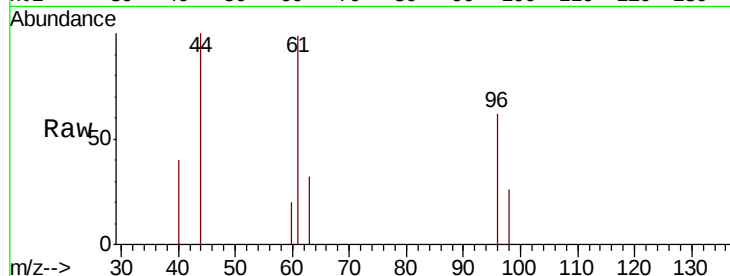
Tot Ion: 96 Resp: 661

Ion Ratio Lower Upper

96 100

61 160.6 125.0 187.6

98 41.8 48.2 72.4#

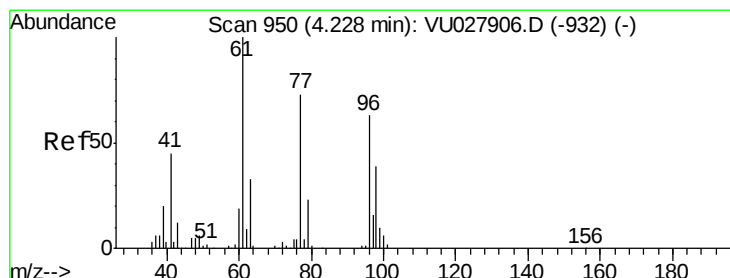
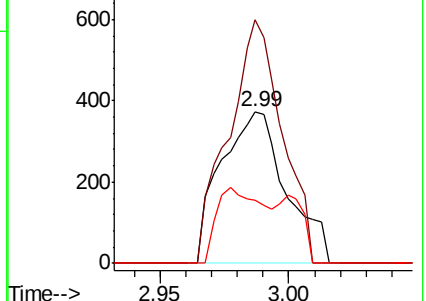
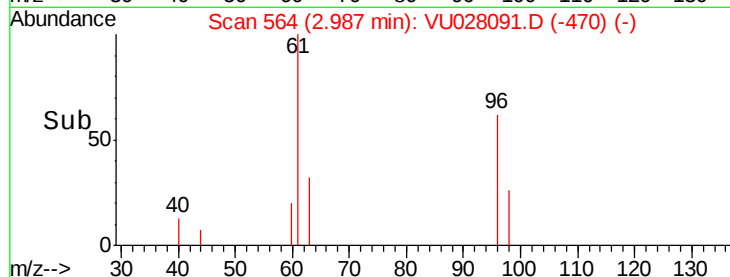


Abundance Ion 95.90 (95.60 to 96.60): VU027906.D (-548) (-)

Ion 60.90 (60.60 to 61.60): VU027906.D (-548) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-548) (-)

Time-->



#27

cis-1,2-Dichloroethene

Concen: 28.787 ug/l

RT: 4.23 min Scan# 950

Delta R.T. 0.00 min

Lab File: VU028091.D

Acq: 13 Nov 2018 14:53

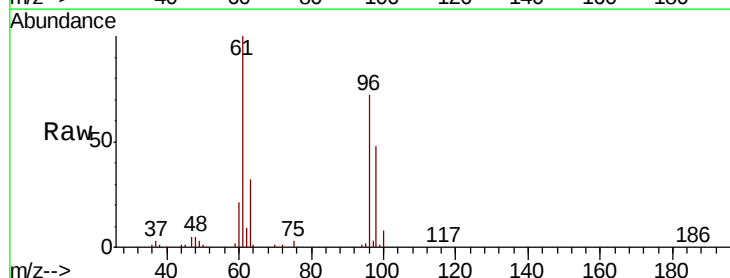
Tgt Ion: 96 Resp: 106492

Ion Ratio Lower Upper

96 100

61 141.8 0.0 329.6

98 64.6 0.0 127.2

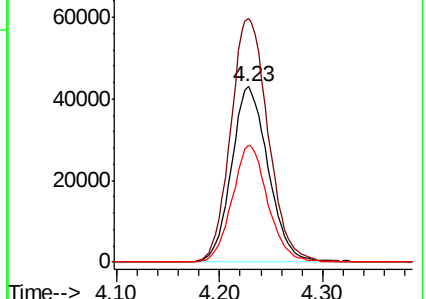
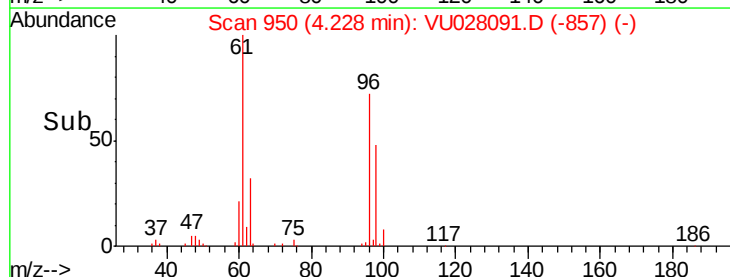


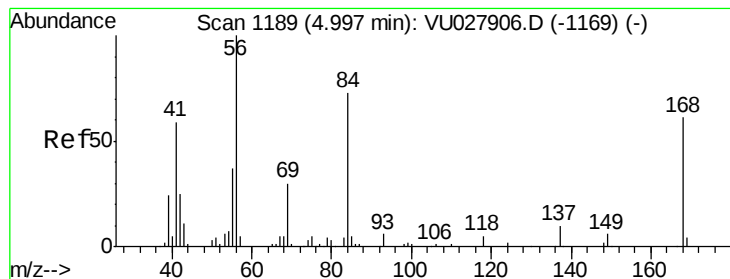
Abundance Ion 95.90 (95.60 to 96.60): VU027906.D (-932) (-)

Ion 60.90 (60.60 to 61.60): VU027906.D (-932) (-)

Ion 97.90 (97.60 to 98.60): VU027906.D (-932) (-)

Time-->





#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1186

Delta R.T. -0.01 min

Lab File: VU028091.D

Acq: 13 Nov 2018 14:53

Instrument :
MSVOA_U
ClientSampleId :

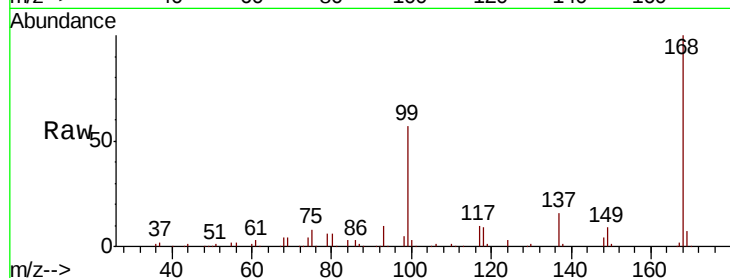
Tot Ion: 56 Resp: 5768

Ion Ratio Lower Upper

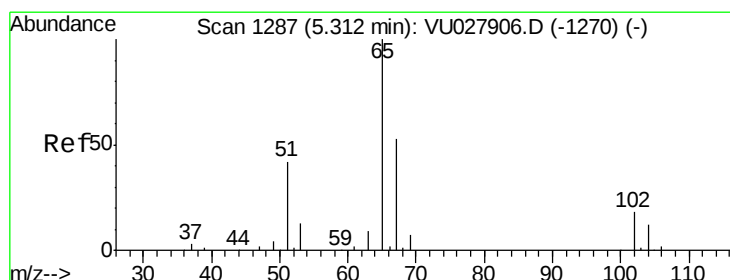
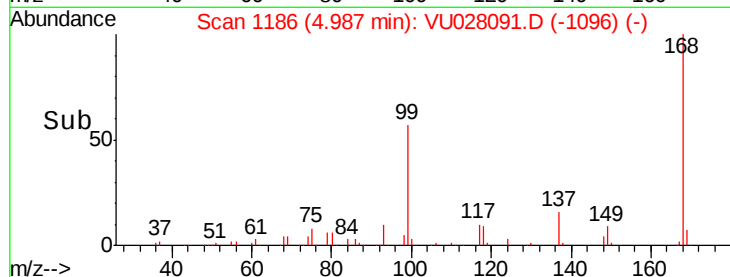
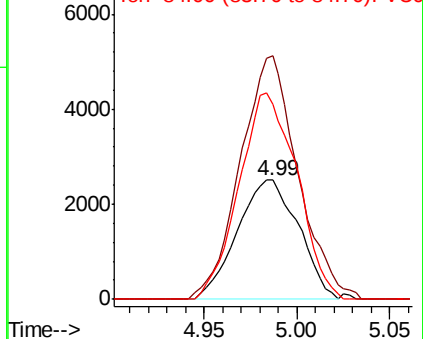
56 100

69 204.3 23.7 35.5#

84 163.9 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: 51.664 ug/l

RT: 5.31 min Scan# 1287

Delta R.T. -0.00 min

Lab File: VU028091.D

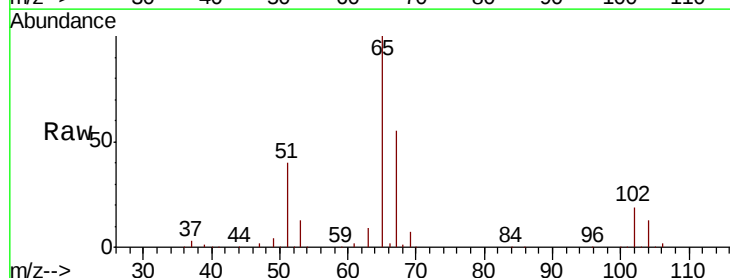
Acq: 13 Nov 2018 14:53

Tgt Ion: 65 Resp: 209500

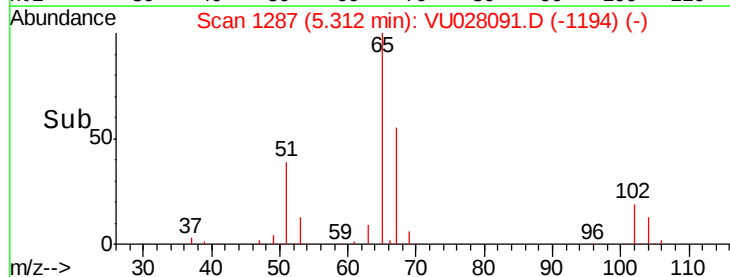
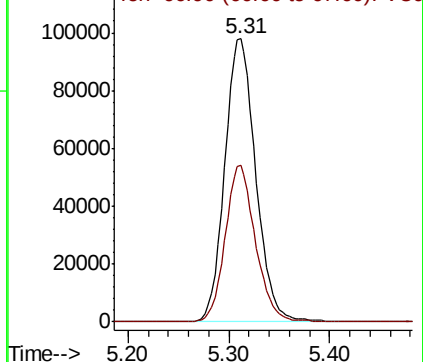
Ion Ratio Lower Upper

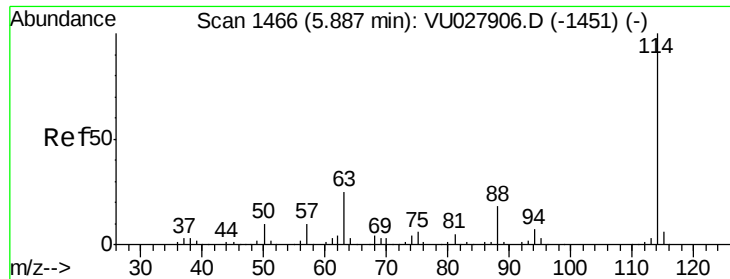
65 100

67 54.0 0.0 109.0



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

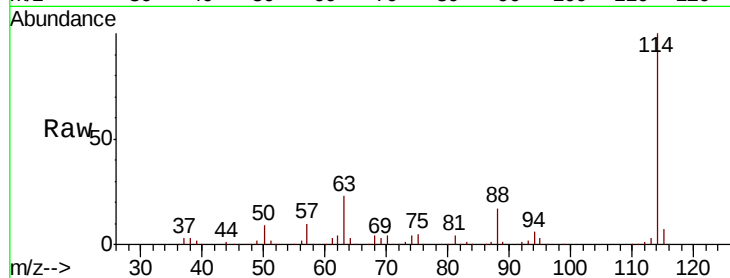




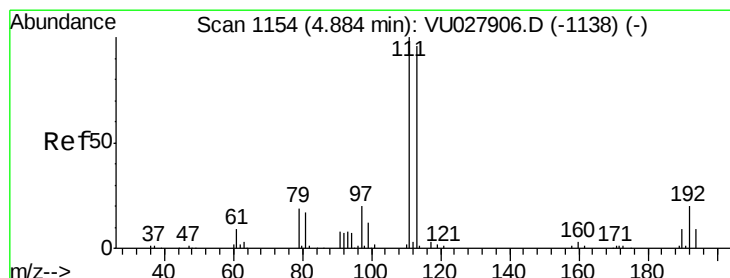
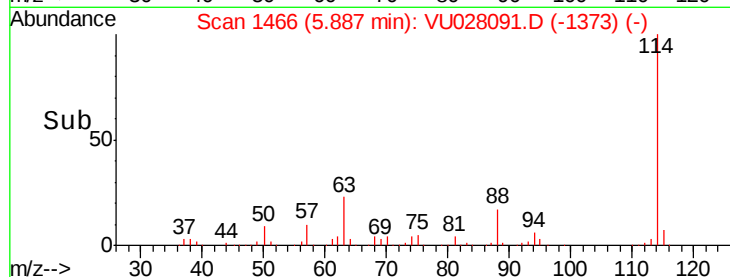
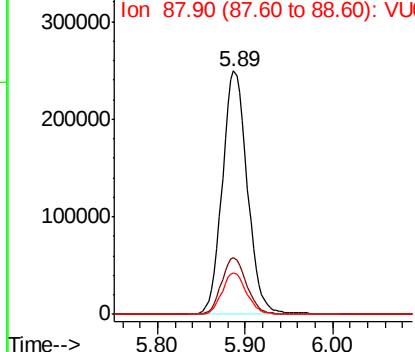
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1466
Delta R.T. 0.00 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:114 Resp: 496455
Ion Ratio Lower Upper
114 100
63 23.3 0.0 50.8
88 17.0 0.0 35.8

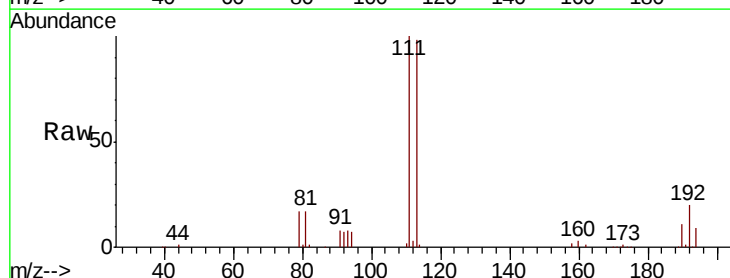


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VU0
Ion 87.90 (87.60 to 88.60): VU0

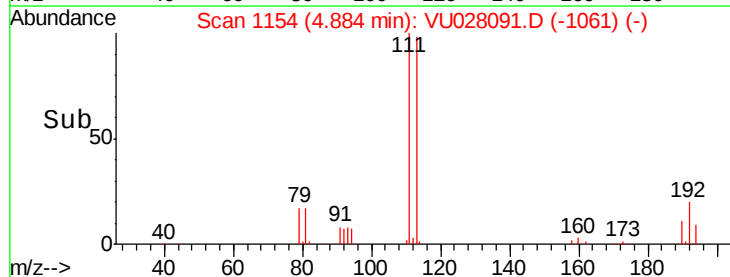
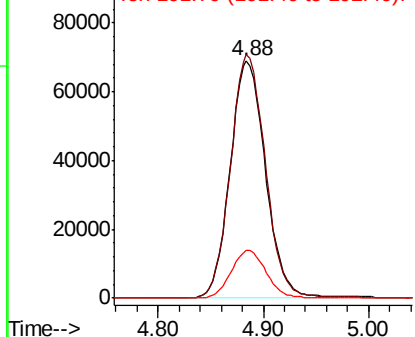


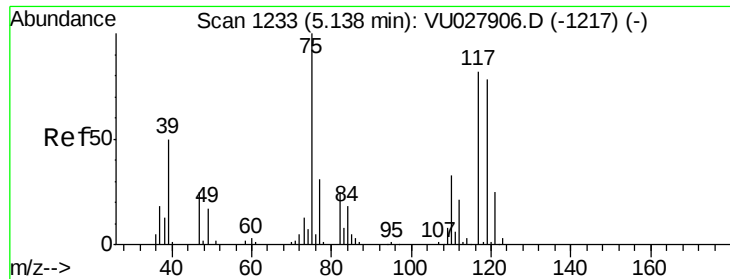
#35
Dibromofluoromethane
Concen: 51.141 ug/l
RT: 4.88 min Scan# 1154
Delta R.T. 0.00 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Tgt Ion:113 Resp: 160082
Ion Ratio Lower Upper
113 100
111 101.4 83.0 124.6
192 20.0 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

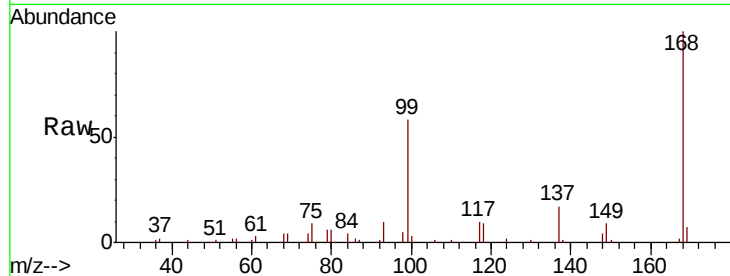




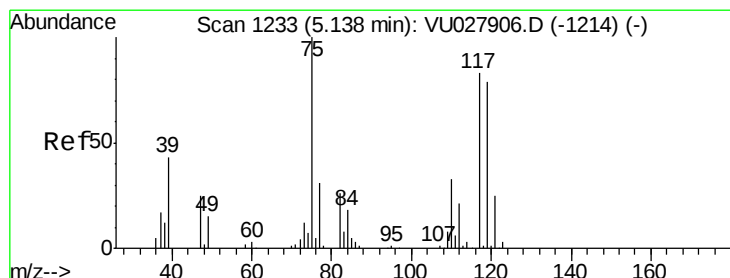
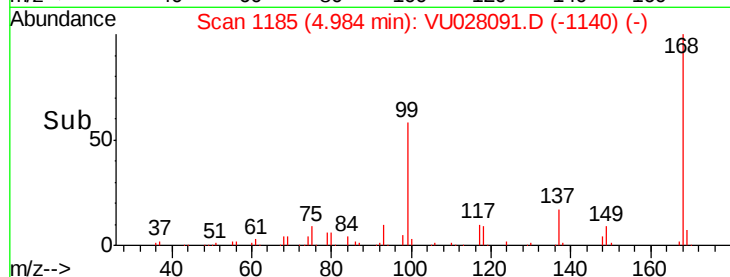
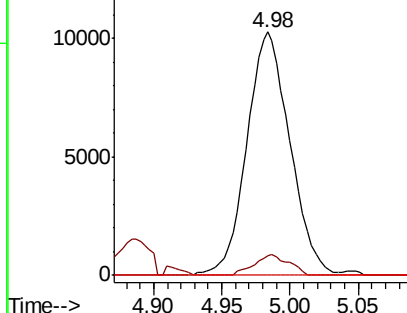
#36
 1,1-Dichloropropene
 Concen: 4.322 ug/l
 RT: 4.98 min Scan# 1185
 Delta R.T. -0.15 min
 Lab File: VU028091.D
 Acq: 13 Nov 2018 14:53

Instrument :
 MSVOA_U
 ClientSampled :

Tot Ion: 75 Resp: 22474
 Ion Ratio Lower Upper
 75 100
 110 6.8 16.5 49.5#
 77 0.0 24.9 37.3#

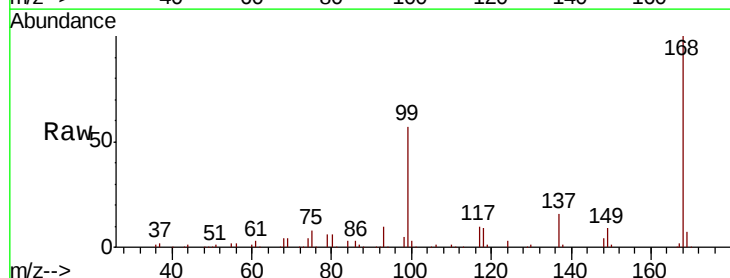


Abundance Ion 74.90 (74.60 to 75.60): VU0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VU0

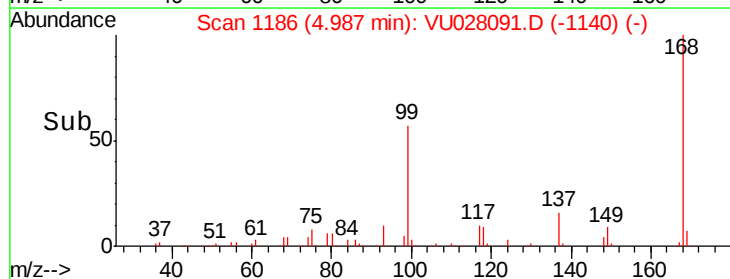
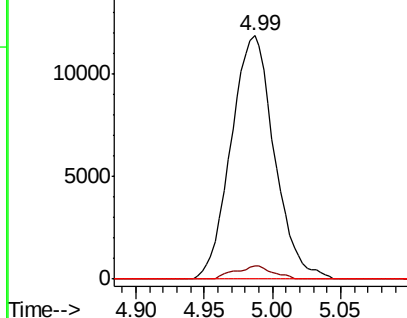


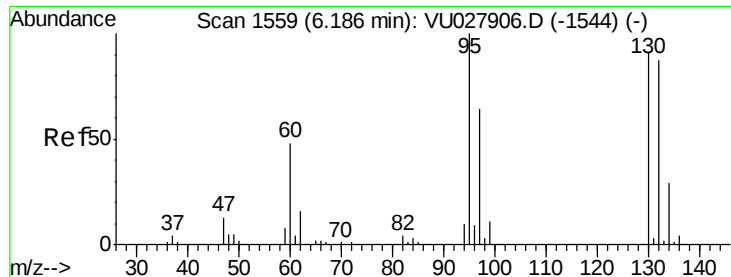
#38
 Carbon Tetrachloride
 Concen: 5.664 ug/l
 RT: 4.99 min Scan# 1186
 Delta R.T. -0.15 min
 Lab File: VU028091.D
 Acq: 13 Nov 2018 14:53

Tgt Ion: 117 Resp: 26101
 Ion Ratio Lower Upper
 117 100
 119 5.6 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





#44

Trichloroethene

Concen: 0.351 ug/l

RT: 6.19 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VU028091.D

Acq: 13 Nov 2018 14:53

Instrument :

MSVOA_U

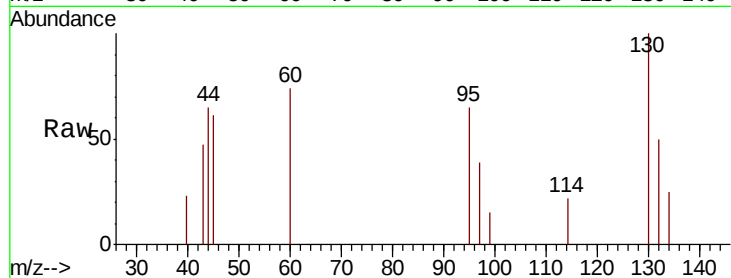
ClientSampleId :

Tot Ion:130 Resp: 1201

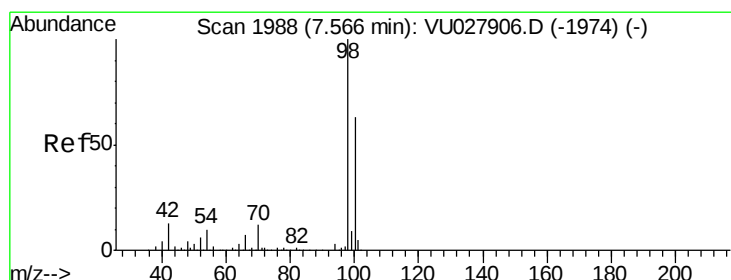
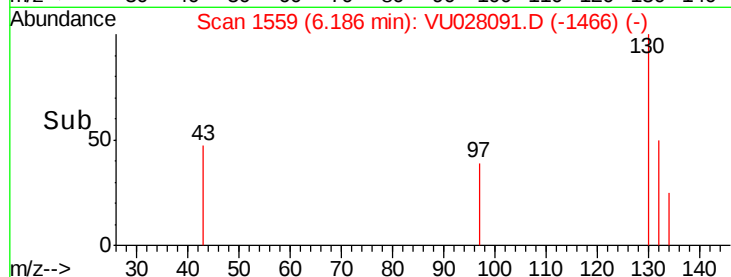
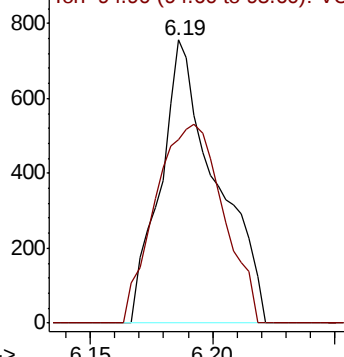
Ion Ratio Lower Upper

130 100

95 64.9 0.0 219.2



Abundance Ion 129.80 (129.50 to 130.50): VU027906.D (-1544) (-)



#50

Toluene-d8

Concen: 52.731 ug/l

RT: 7.57 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VU028091.D

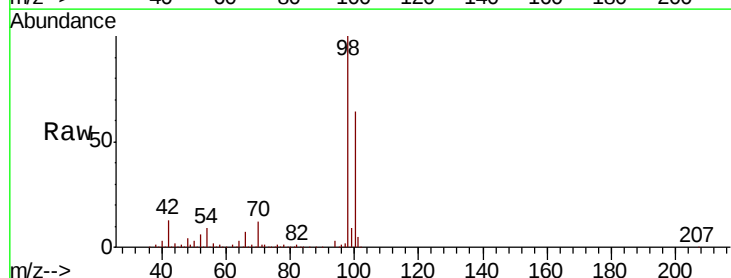
Acq: 13 Nov 2018 14:53

Tgt Ion: 98 Resp: 637612

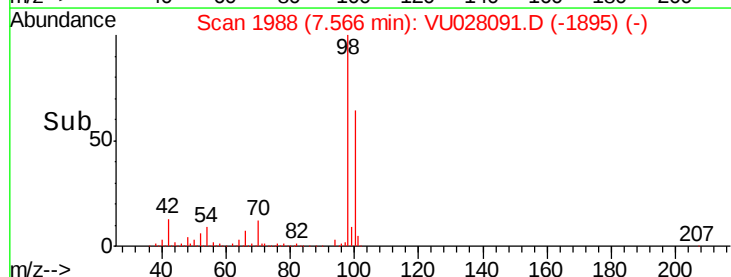
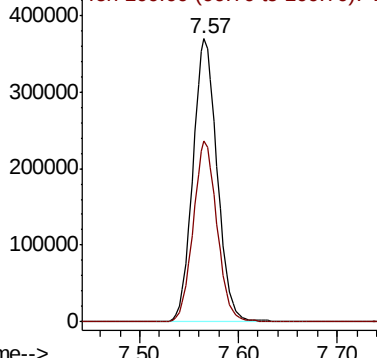
Ion Ratio Lower Upper

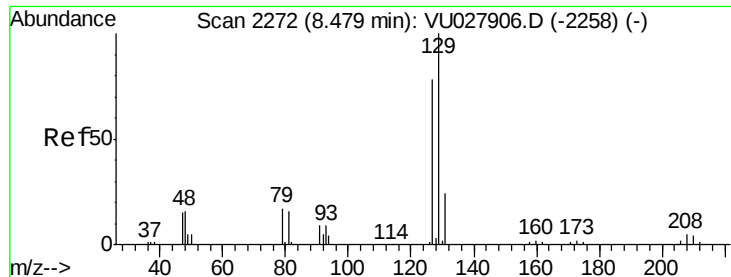
98 100

100 62.7 50.1 75.1



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

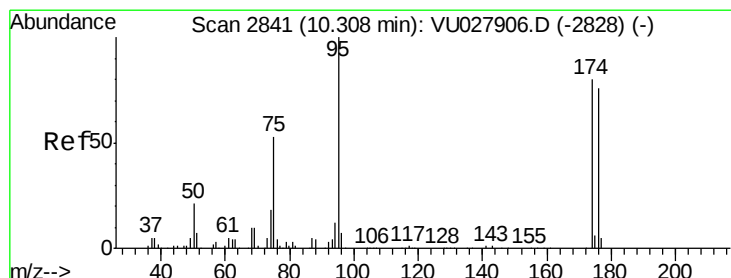
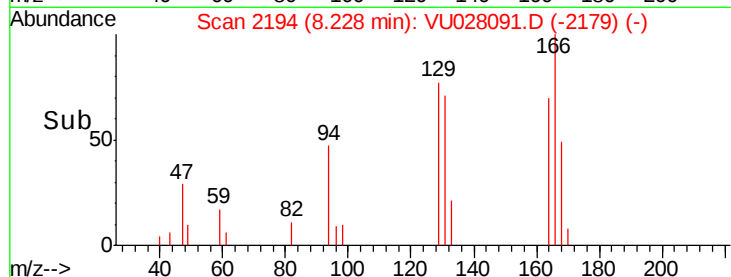
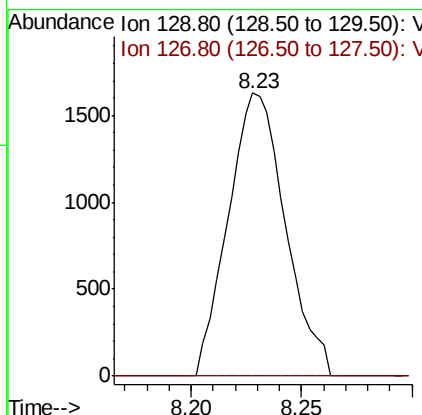
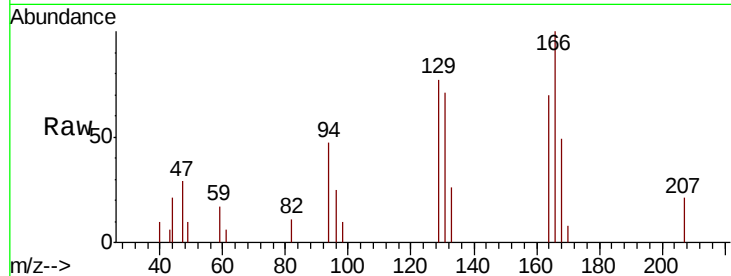




#60
Dibromochloromethane
Concen: 0.812 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. -0.25 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

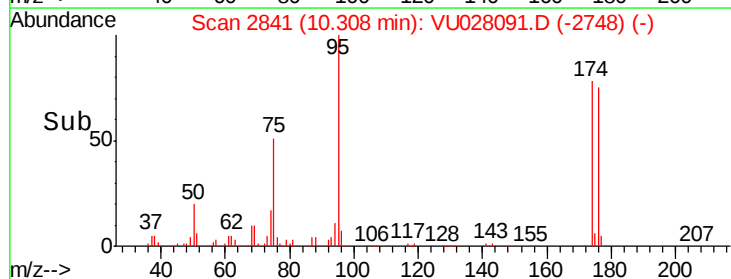
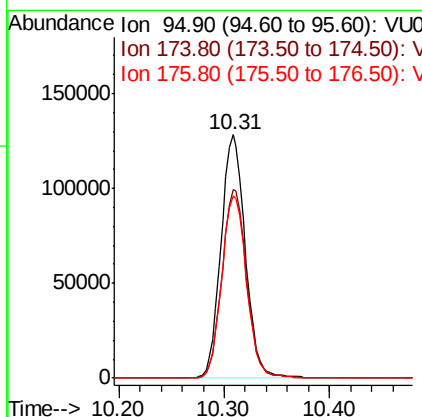
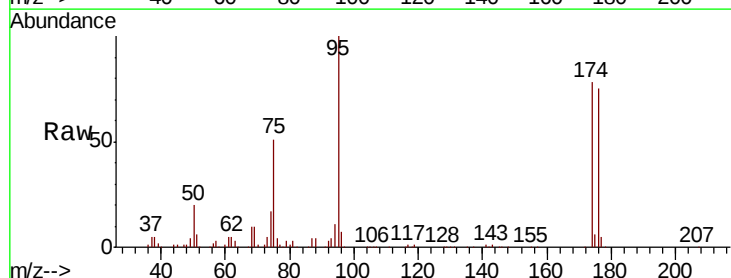
Instrument :
MSVOA_U
ClientSampleId :

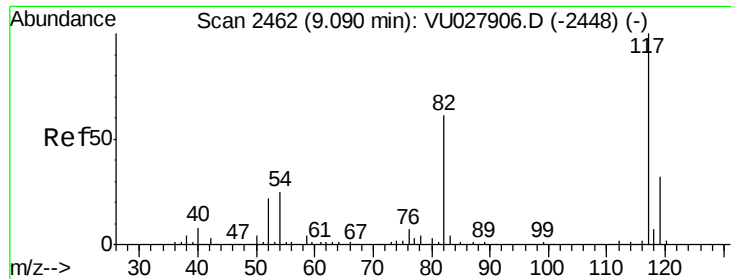
Tot Ion:129 Resp: 2923
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#



#62
4-Bromofluorobenzene
Concen: 45.915 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.00 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Tgt Ion: 95 Resp: 204782
Ion Ratio Lower Upper
95 100
174 78.3 0.0 156.4
176 76.5 0.0 150.8

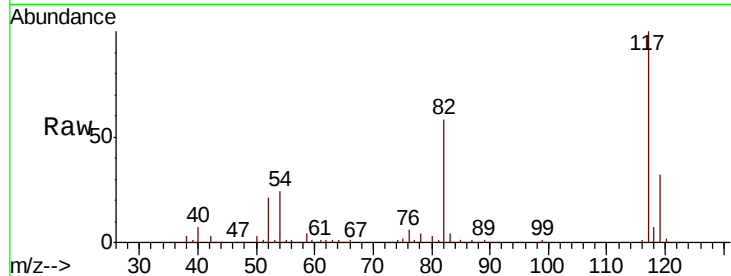




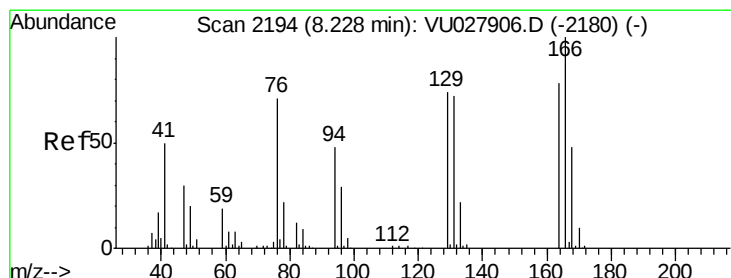
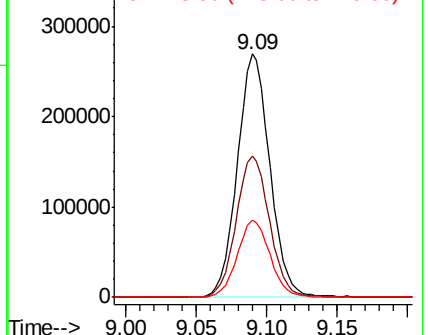
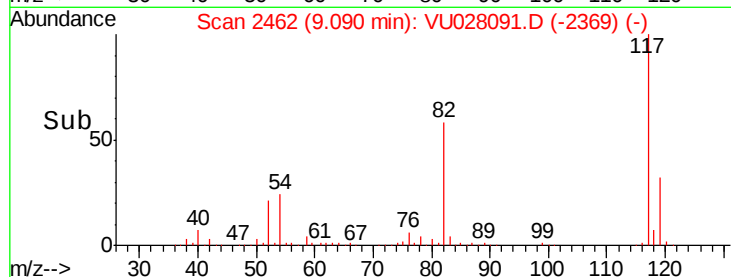
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:117 Resp: 436279
Ion Ratio Lower Upper
117 100
82 58.2 48.6 73.0
119 31.6 25.8 38.8

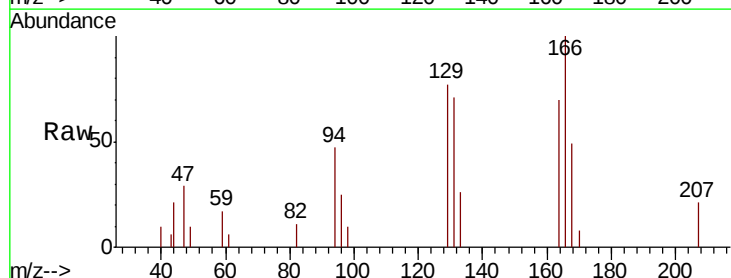


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VU028091.D (-2369) (-)
Ion 118.90 (118.60 to 119.60): V

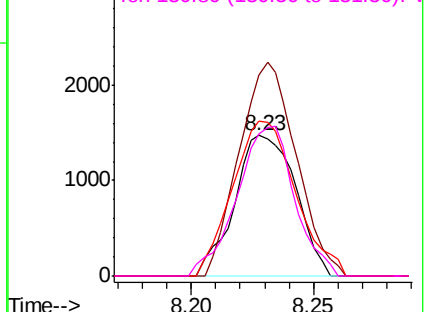
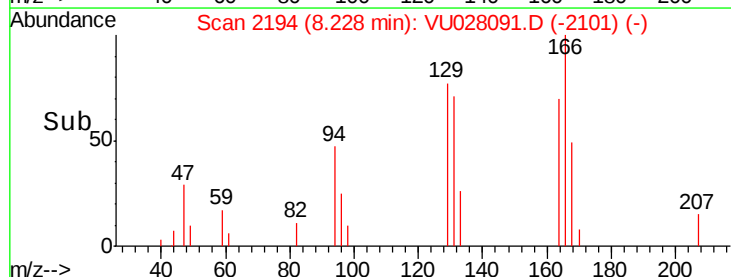


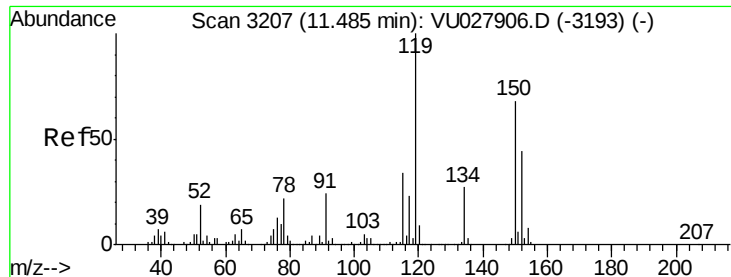
#64
Tetrachloroethene
Concen: 0.905 ug/l
RT: 8.23 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Tgt Ion:164 Resp: 2559
Ion Ratio Lower Upper
164 100
166 142.9 102.1 153.1
129 110.4 75.9 113.9
131 101.3 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



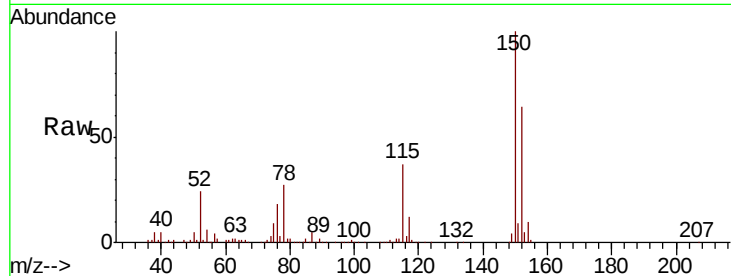


#72

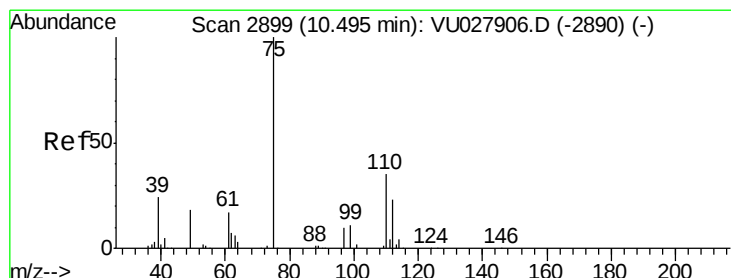
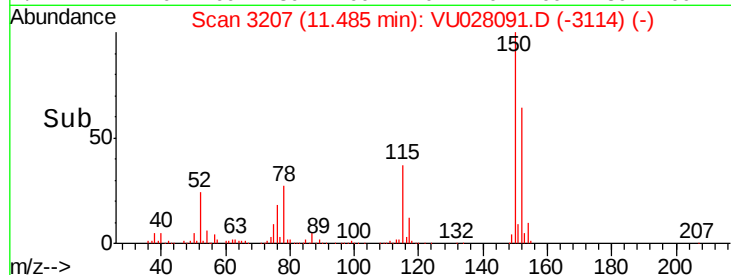
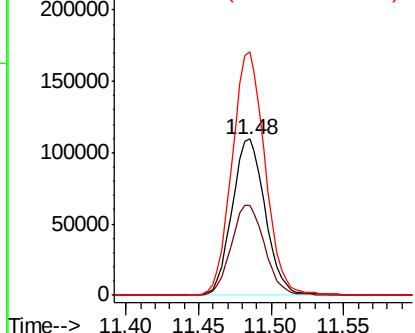
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.48 min Scan# 3207
Delta R.T. -0.00 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Instrument :
MSVOA_U
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.3	43.0	129.0
150	155.2	0.0	349.4



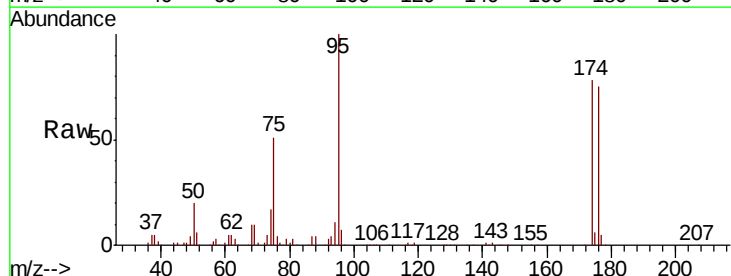
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



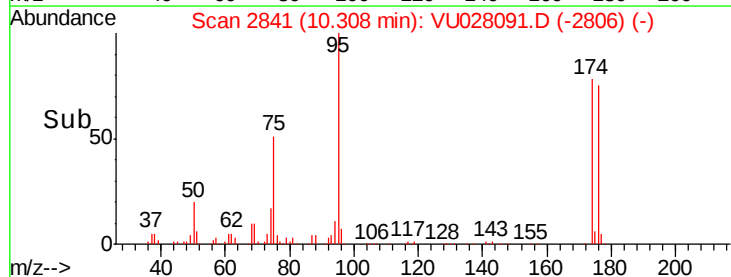
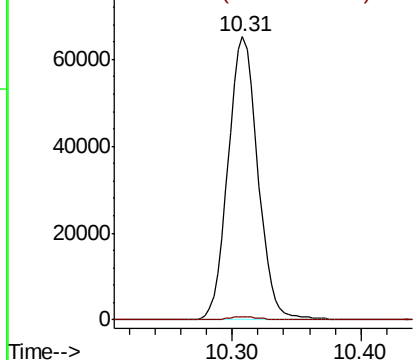
#76

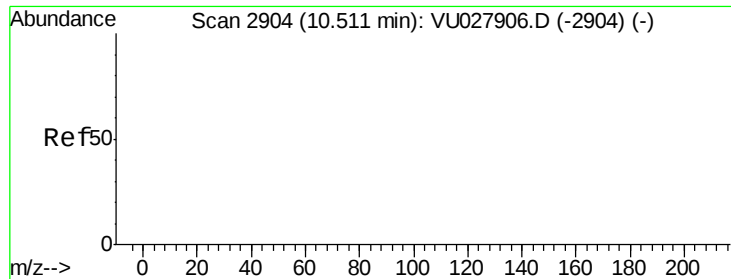
1,2,3-Trichloropropane
Concen: 21.987 ug/l
RT: 10.31 min Scan# 2841
Delta R.T. -0.19 min
Lab File: VU028091.D
Acq: 13 Nov 2018 14:53

Tgt 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

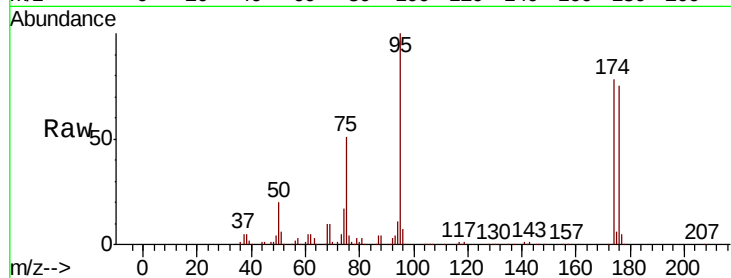




#81
 trans-1,4-Dichloro-2-butene
 Concen: 54.871 ug/l
 RT: 10.31 min Scan# 2841
 Delta R.T. -0.20 min
 Lab File: VU028091.D
 Acq: 13 Nov 2018 14:53

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 75 Resp: 104681
 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

