

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024562.D
 Acq On : 15 Jun 2018 00:36
 Operator : MD/SY
 Sample : J3452-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 01:46:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 13 13:55:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	182987	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	308371	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	293775	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	171424	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	5.32	65	136424	45.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.34%	
35) Dibromofluoromethane	4.89	113	122201	47.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.50%	
50) Toluene-d8	7.57	98	457734	49.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.06%	
62) 4-Bromofluorobenzene	10.31	95	173129	46.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.42%	

Target Compounds

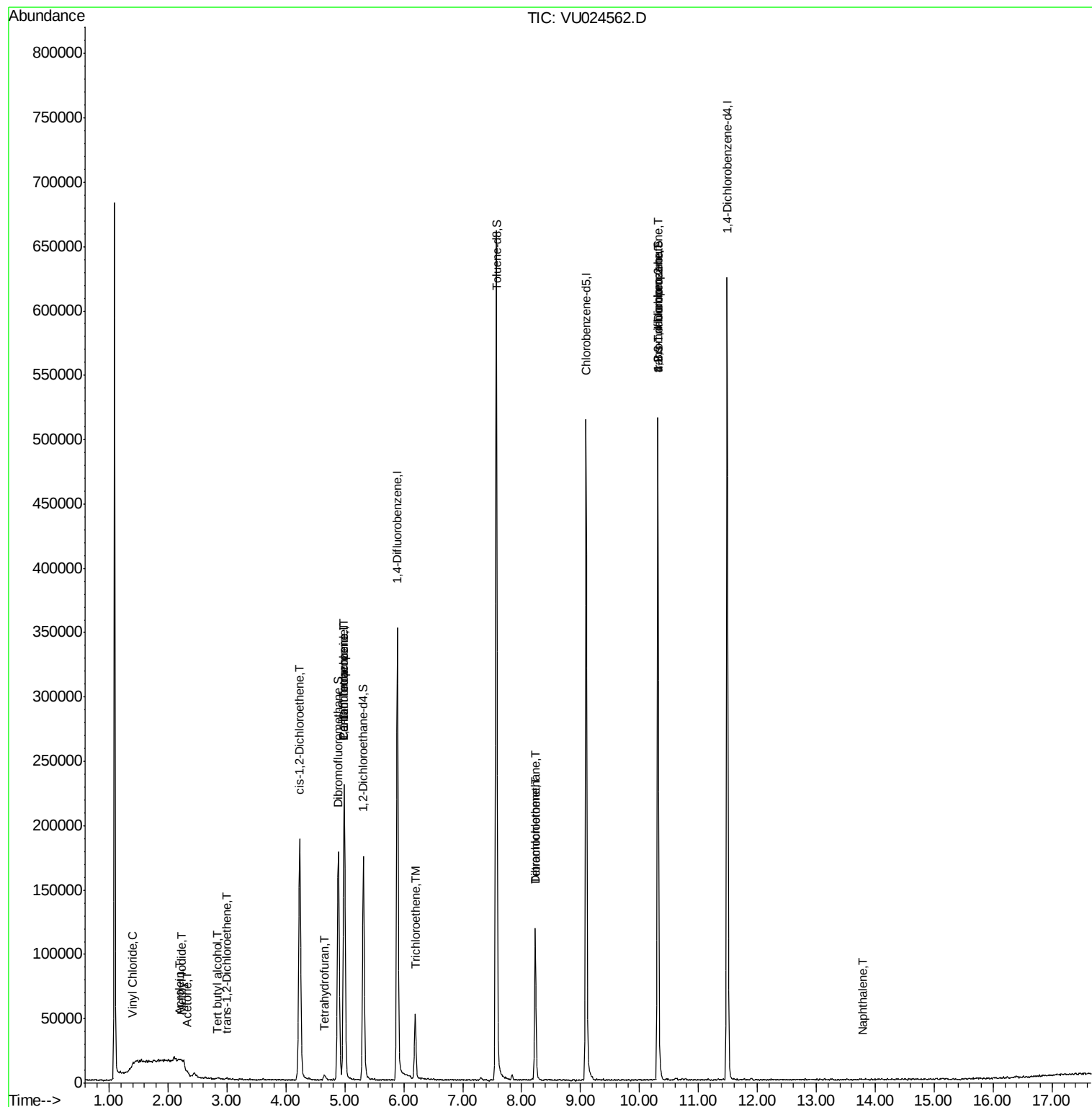
					Qvalue	
4) Vinyl Chloride	1.41	62	820	0.340	ug/l #	44
6) Chloroethane	1.72	64	147	Below Cal	#	63
8) Diethyl Ether	2.11	74	716	Below Cal		99
10) Methyl Iodide	2.23	142	22	5.299	ug/l #	1
11) Tert butyl alcohol	2.84	59	631	0.869	ug/l #	88
13) Acrolein	2.19	56	148	0.388	ug/l #	1
16) Acetone	2.33	43	2601	1.620	ug/l	97
21) trans-1,2-Dichloroethene	2.99	96	653	0.285	ug/l #	65
27) cis-1,2-Dichloroethene	4.24	96	110014	41.699	ug/l	85
29) Tetrahydrofuran	4.65	42	3369	2.523	ug/l #	88
31) Cyclohexane	4.99	56	4242	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	13041	3.599	ug/l #	48
38) Carbon Tetrachloride	4.99	117	16735	4.200	ug/l #	16
44) Trichloroethene	6.19	130	18445	6.277	ug/l	94
60) Dibromochloromethane	8.23	129	25135	7.465	ug/l #	11
64) Tetrachloroethene	8.23	164	27011	9.673	ug/l	94
76) 1,2,3-Trichloropropane	10.31	75	86659	22.961	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	86659	53.142	ug/l #	100
95) Naphthalene	13.79	128	677	0.732	ug/l #	69

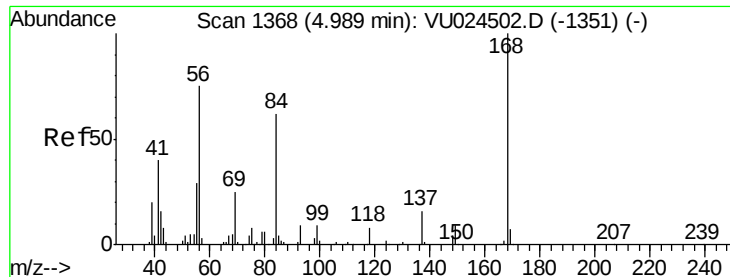
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :

MSVOA_U

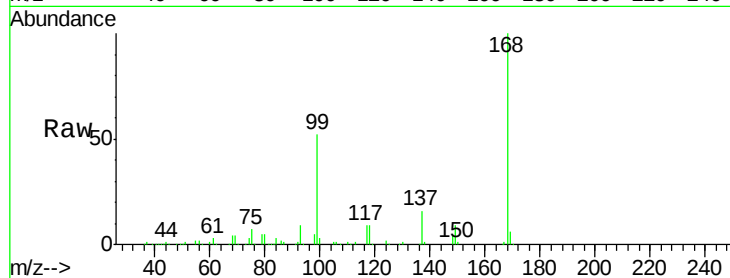
ClientSampleId :

Tot Ion:168 Resp: 182987

Ion Ratio Lower Upper

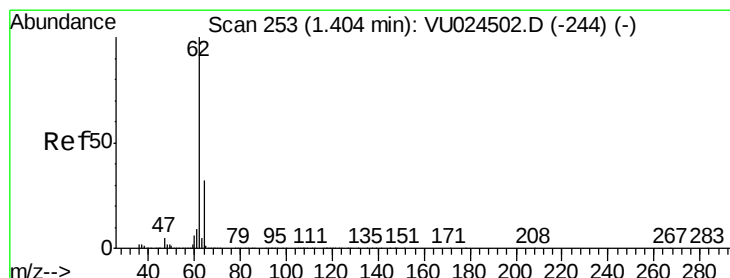
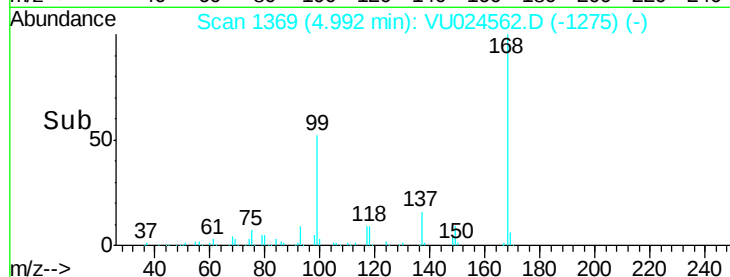
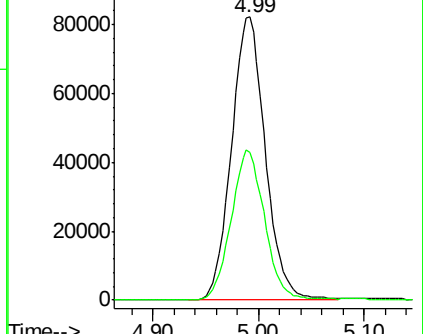
168 100

99 51.8 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#4

Vinyl Chloride

Concen: 0.340 ug/l

RT: 1.41 min Scan# 254

Delta R.T. 0.00 min

Lab File: VU024562.D

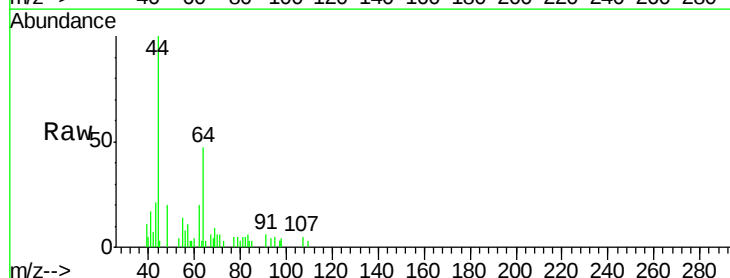
Acq: 15 Jun 2018 00:36

Tgt Ion: 62 Resp: 820

Ion Ratio Lower Upper

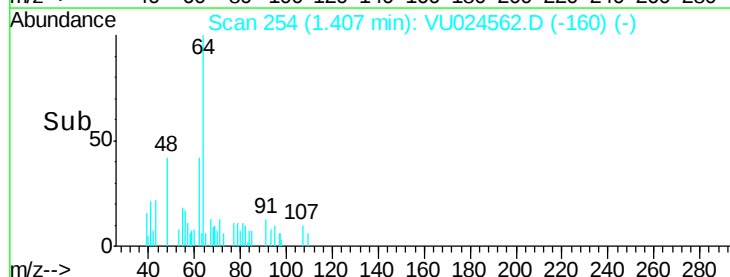
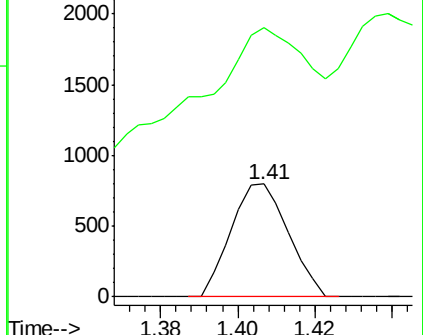
62 100

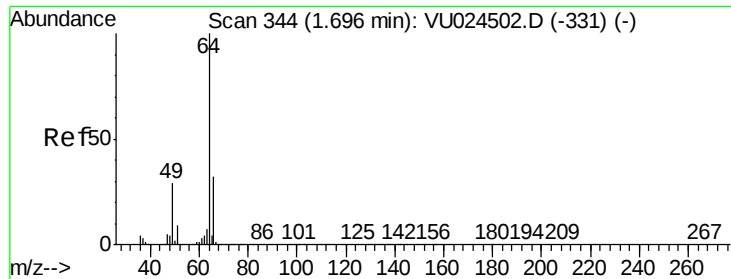
64 61.6 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU024502.D (-244) (-)

Ion 63.90 (63.60 to 64.60): VU024502.D (-244) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 350

Delta R.T. 0.02 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :

MSVOA_U

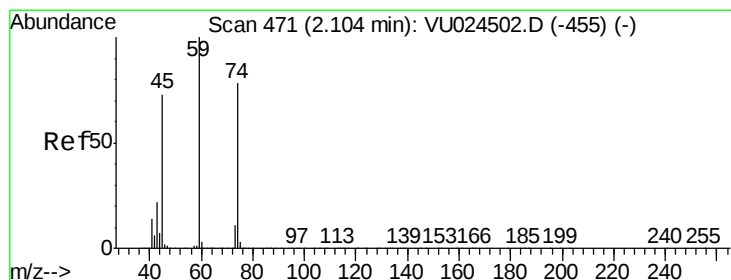
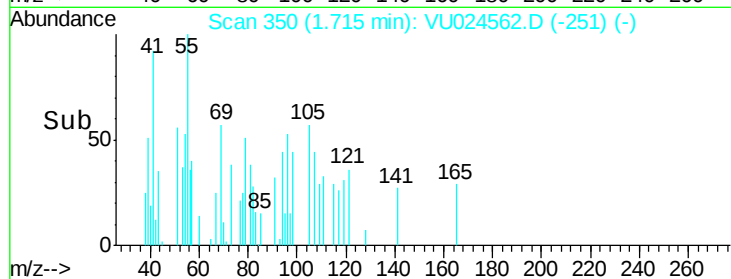
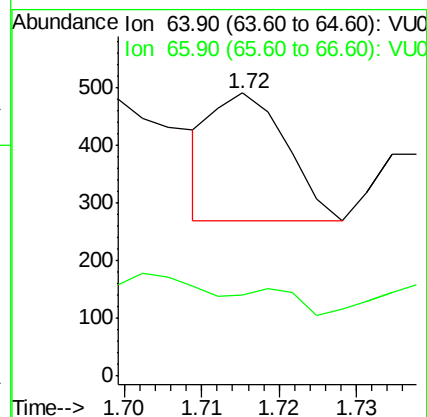
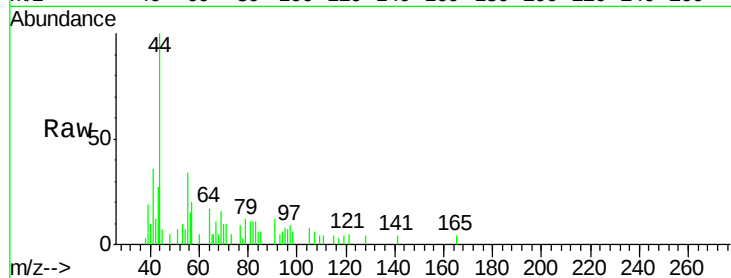
ClientSampleId :

Tot Ion: 64 Resp: 147

Ion Ratio Lower Upper

64 100

66 11.3 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.11 min Scan# 472

Delta R.T. 0.00 min

Lab File: VU024562.D

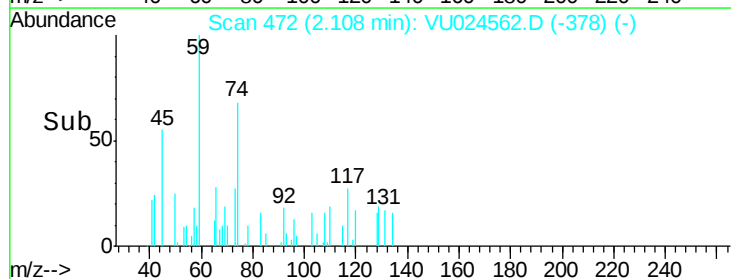
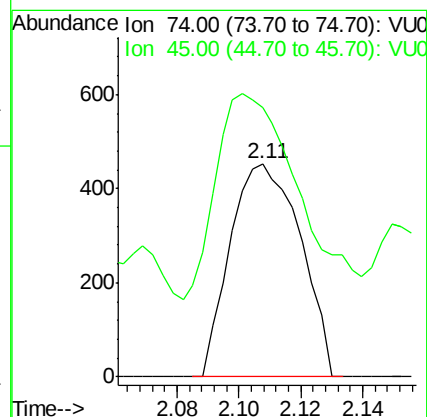
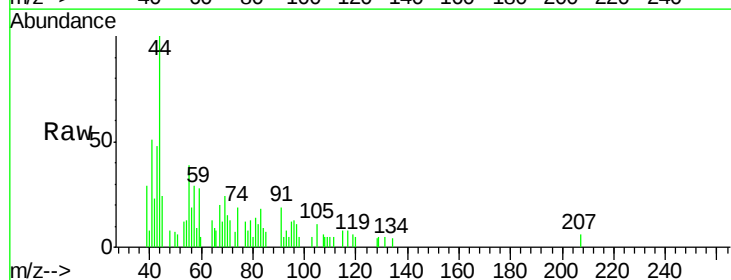
Acq: 15 Jun 2018 00:36

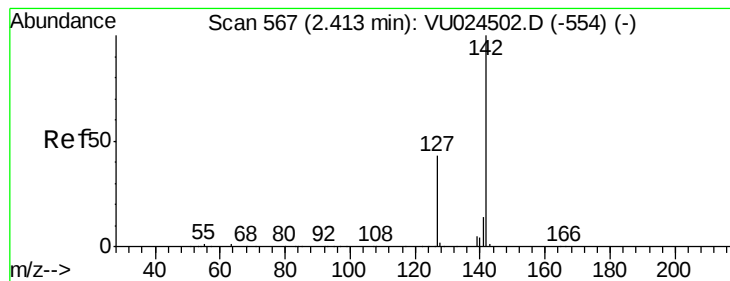
Tgt Ion: 74 Resp: 716

Ion Ratio Lower Upper

74 100

45 111.2 55.0 165.0





#10

Methvl Iodide

Concen: 5.299 ug/l

RT: 2.23 min Scan# 511

Delta R.T. -0.18 min

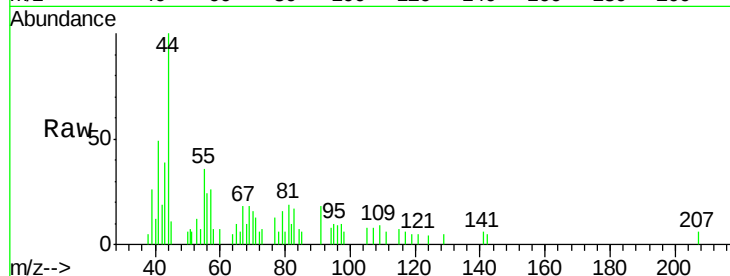
Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:142 Resp: 22

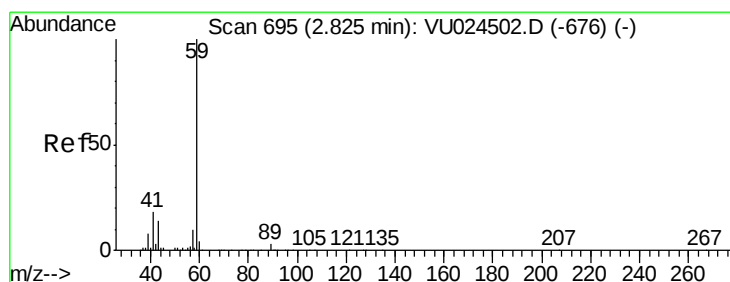
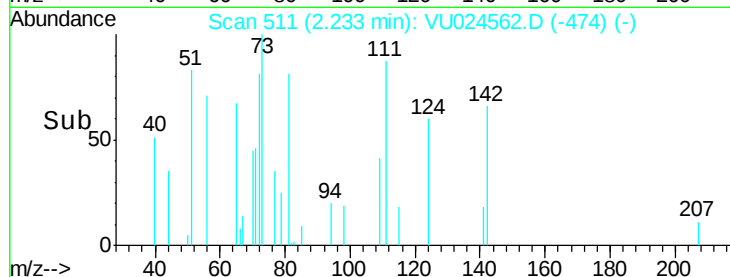
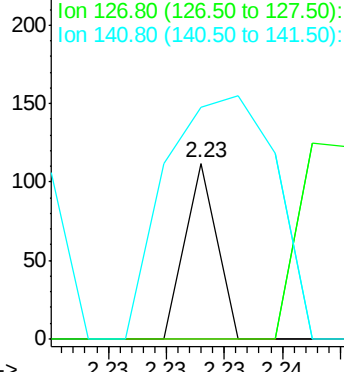
Ion	Ratio	Lower	Upper
142	100		
127	309.1	35.6	53.4#
141	468.2	11.7	17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.869 ug/l

RT: 2.84 min Scan# 699

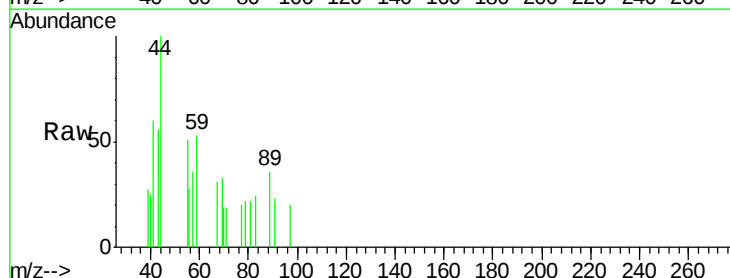
Delta R.T. 0.01 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

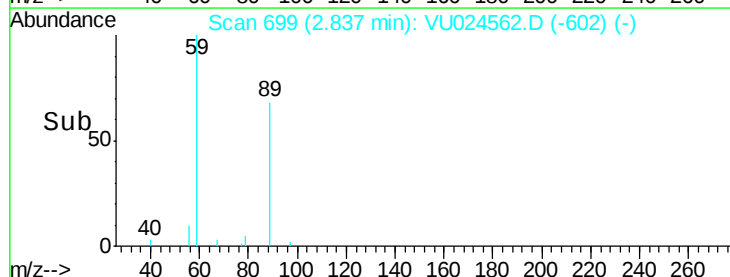
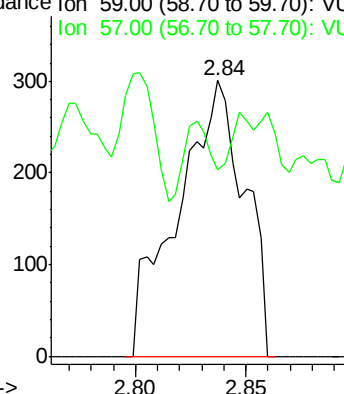
Tgt Ion: 59 Resp: 631

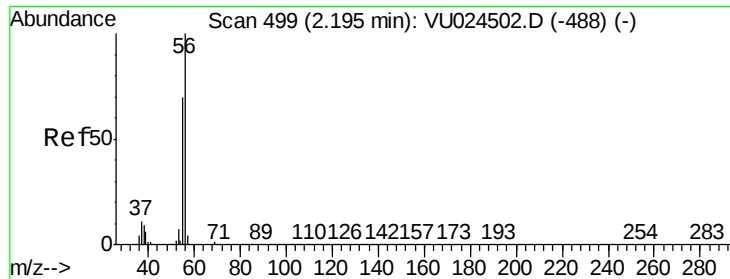
Ion	Ratio	Lower	Upper
59	100		
57	6.2	8.5	12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

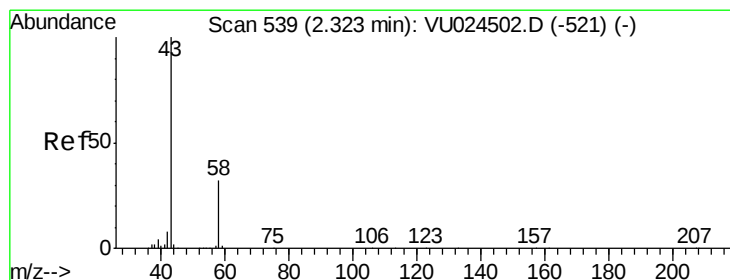
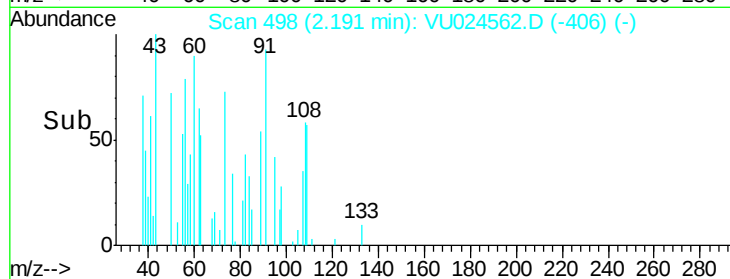
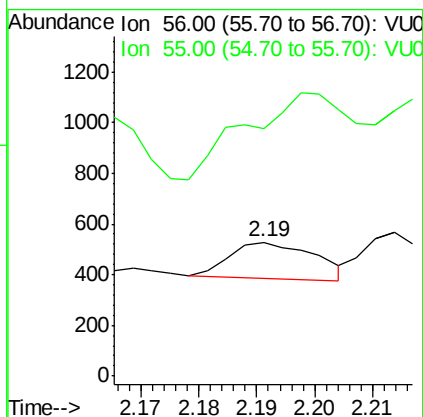
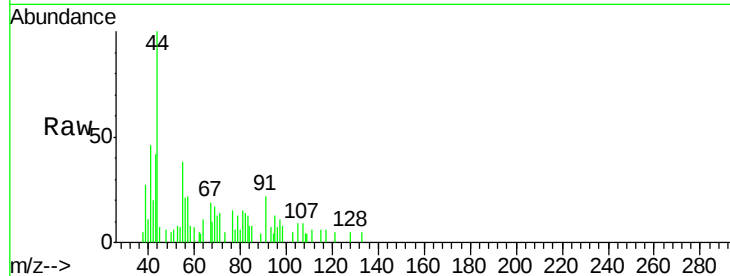




#13
Acrolein
Concen: 0.388 ug/l
RT: 2.19 min Scan# 498
Delta R.T. -0.00 min
Lab File: VU024562.D
Acq: 15 Jun 2018 00:36

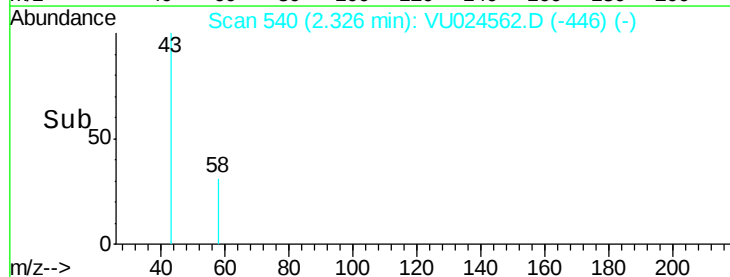
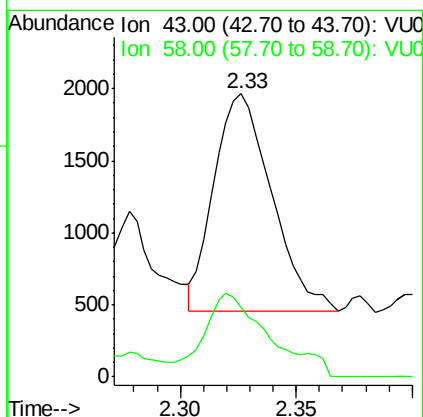
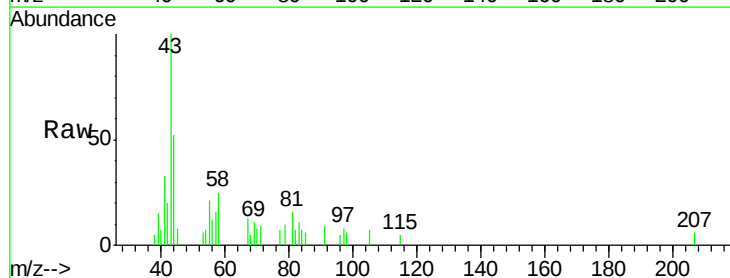
Instrument :
MSVOA_U
ClientSampleId :

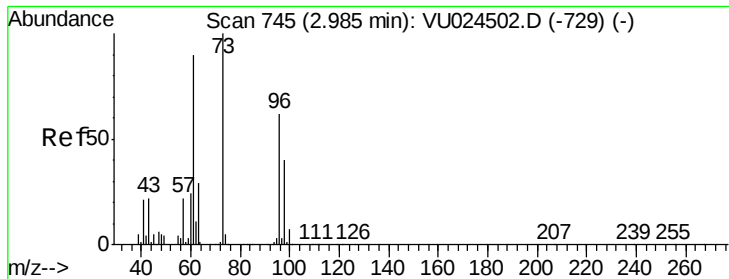
Tot Ion: 56 Resp: 148
Ion Ratio Lower Upper
56 100
55 311.5 58.4 87.6#



#16
Acetone
Concen: 1.620 ug/l
RT: 2.33 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU024562.D
Acq: 15 Jun 2018 00:36

Tgt Ion: 43 Resp: 2601
Ion Ratio Lower Upper
43 100
58 32.1 24.4 36.6





#21

trans-1,2-Dichloroethene

Concen: 0.285 ug/l

RT: 2.99 min Scan# 747

Delta R.T. 0.01 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :
MSVOA_U
ClientSampled :

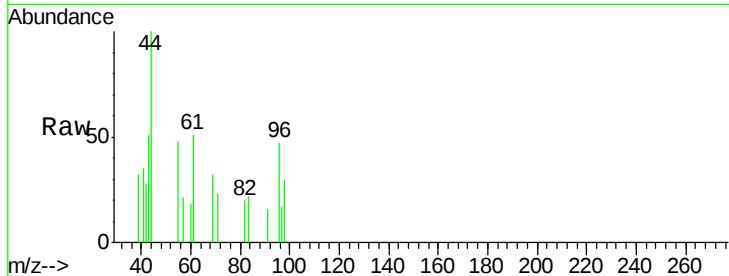
Tot Ion: 96 Resp: 653

Ion Ratio Lower Upper

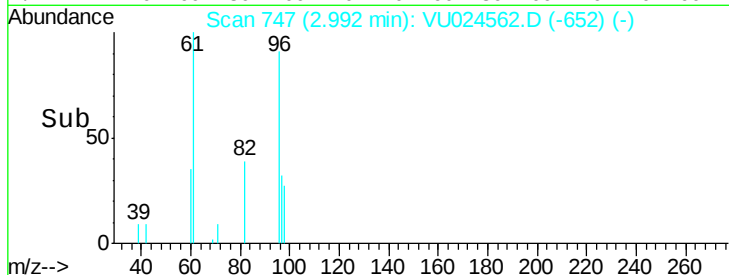
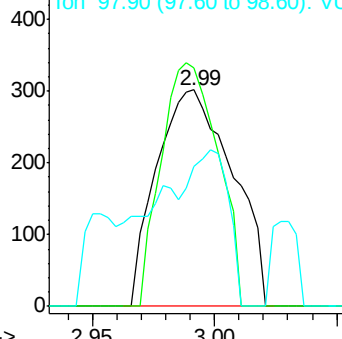
96 100

61 110.3 119.4 179.0#

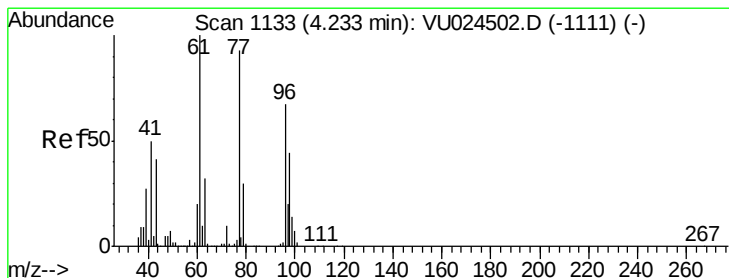
98 28.1 51.1 76.7#



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



Time-->



#27

cis-1,2-Dichloroethene

Concen: 41.699 ug/l

RT: 4.24 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

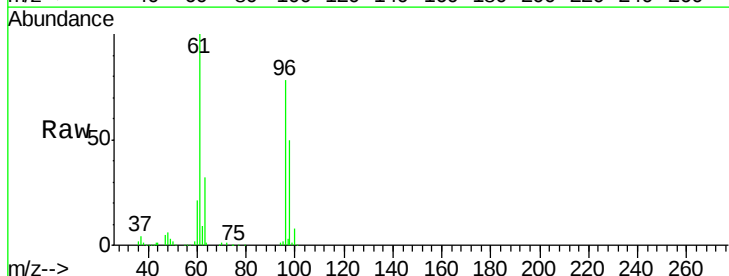
Tgt Ion: 96 Resp: 110014

Ion Ratio Lower Upper

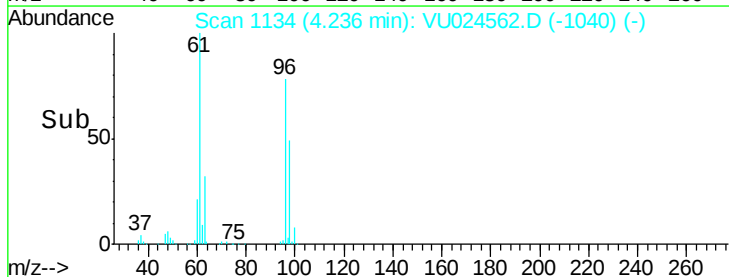
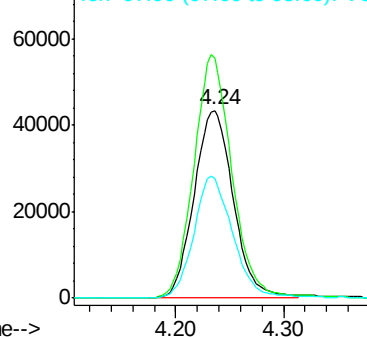
96 100

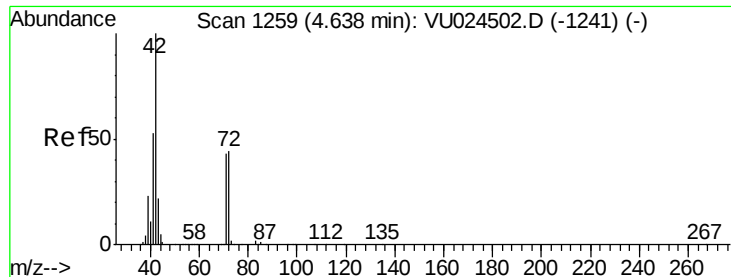
61 126.1 0.0 306.6

98 64.8 0.0 128.8



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0

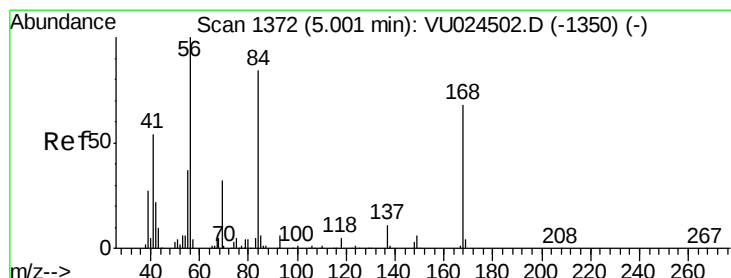
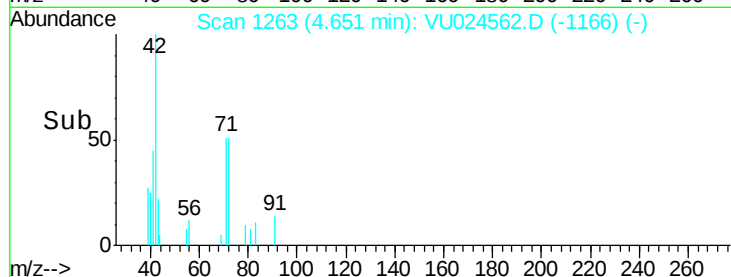
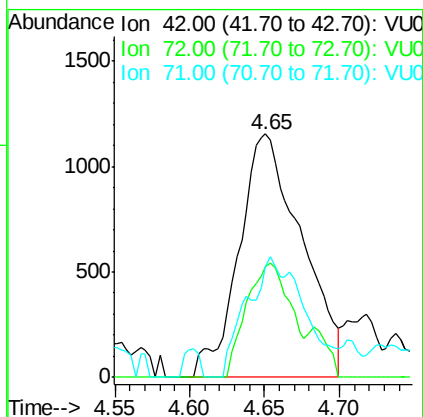
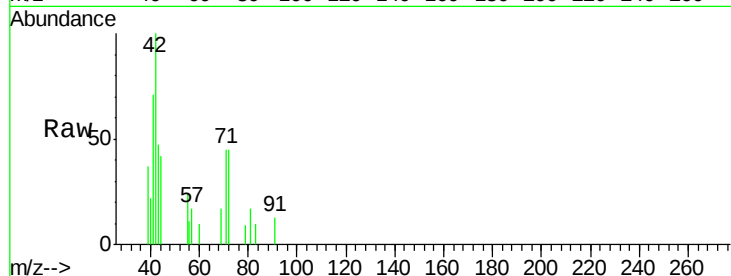




#29
Tetrahydrofuran
Concen: 2.523 ug/l
RT: 4.65 min Scan# 1263
Delta R.T. 0.01 min
Lab File: VU024562.D
Acq: 15 Jun 2018 00:36

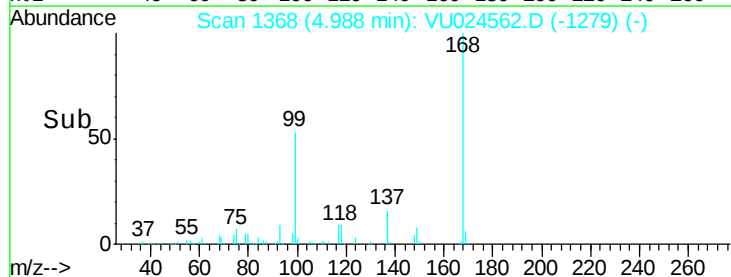
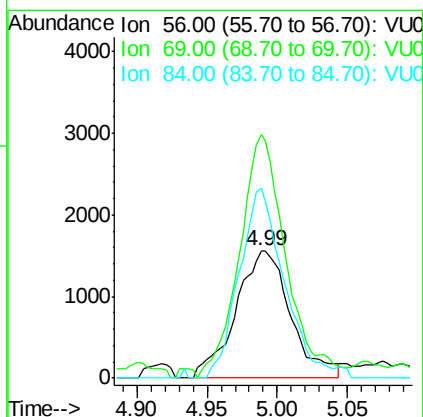
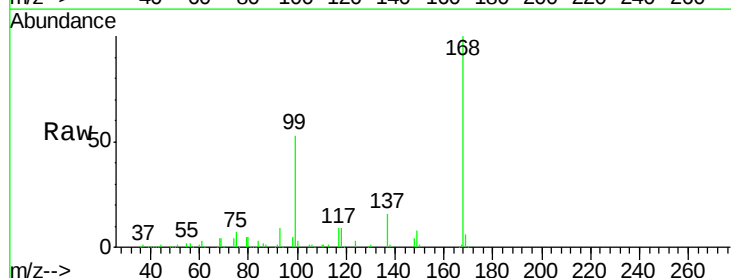
Instrument :
MSVOA_U
ClientSampled :

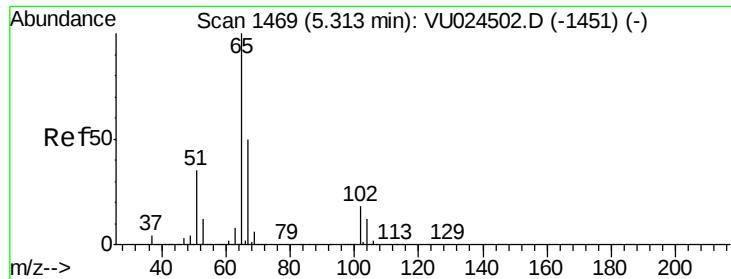
Tot Ion: 42 Resp: 3369
Ion Ratio Lower Upper
42 100
72 33.1 34.5 51.7#
71 45.7 32.2 48.4



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024562.D
Acq: 15 Jun 2018 00:36

Tgt Ion: 56 Resp: 4242
Ion Ratio Lower Upper
56 100
69 183.1 24.8 37.2#
84 148.3 65.2 97.8#

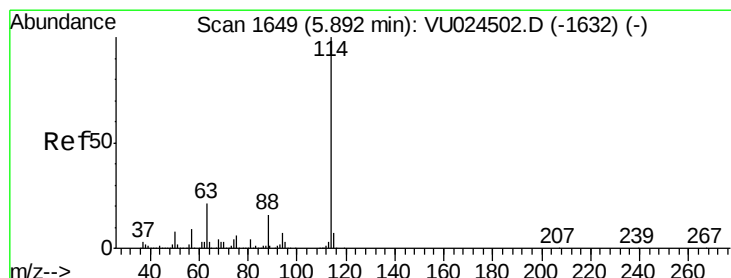
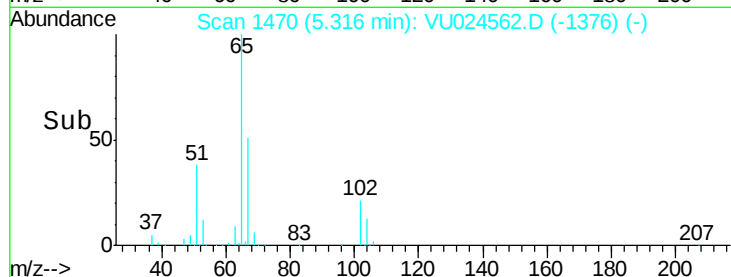
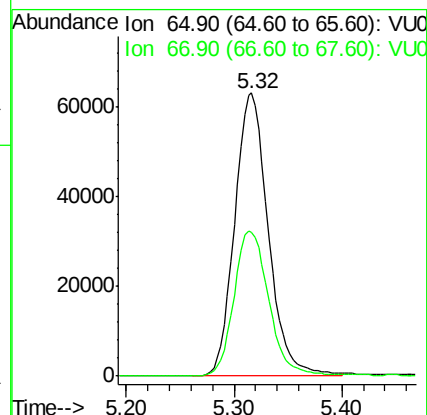
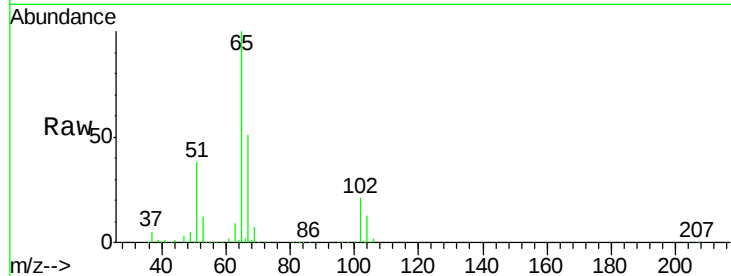




#33
 1,2-Dichloroethane-d4
 Concen: 45.668 ug/l
 RT: 5.32 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VU024562.D
 Acq: 15 Jun 2018 00:36

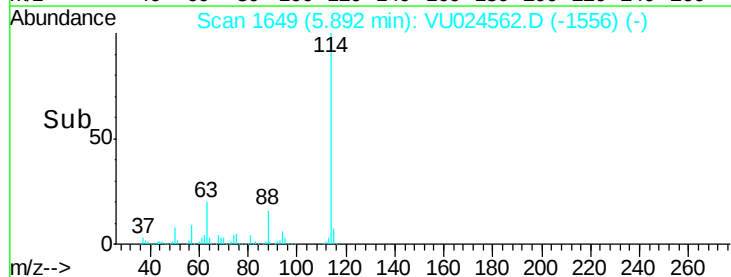
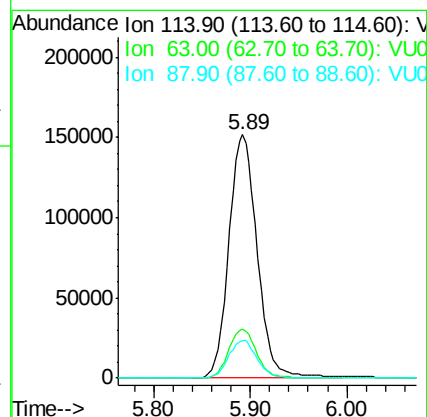
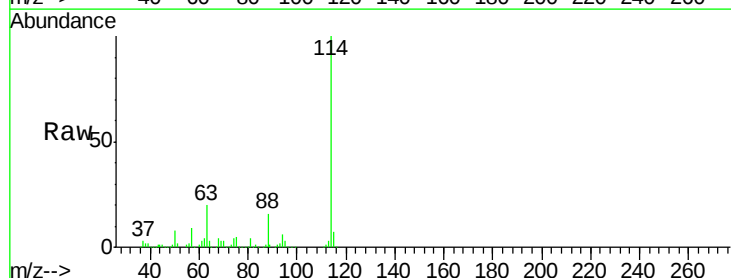
Instrument :
 MSVOA_U
 ClientSampleId :

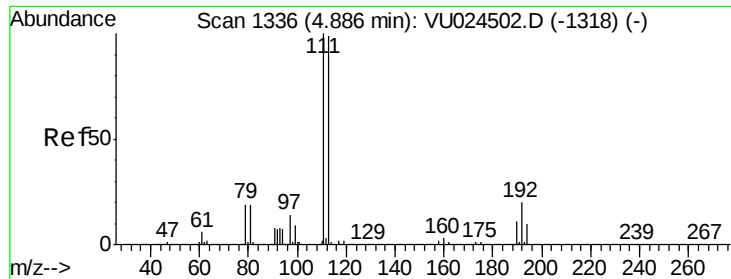
Tot Ion: 65 Resp: 136424
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU024562.D
 Acq: 15 Jun 2018 00:36

Tgt Ion: 114 Resp: 308371
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 45.4
 88 15.6 0.0 31.0





#35

Dibromofluoromethane

Concen: 47.749 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :
MSVOA_U
ClientSampleId :

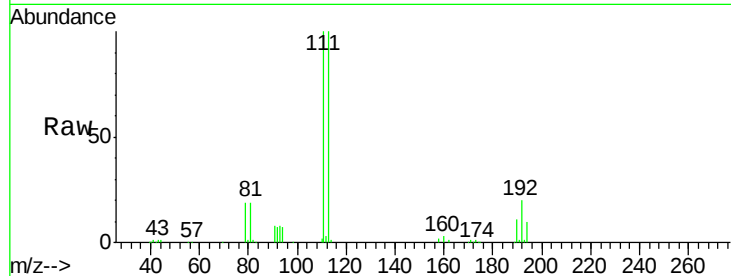
Tot Ion:113 Resp: 122201

Ion Ratio Lower Upper

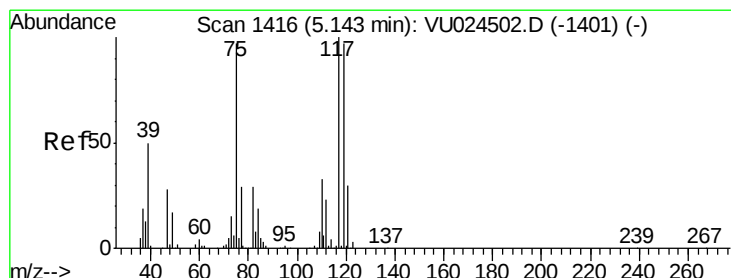
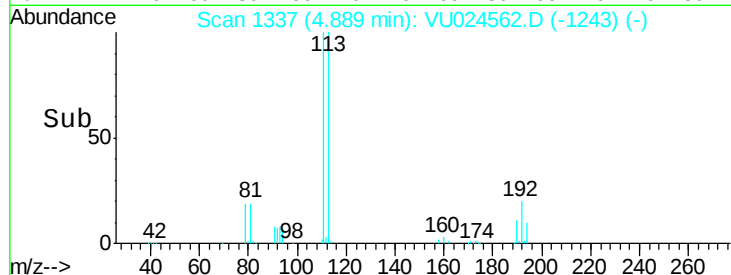
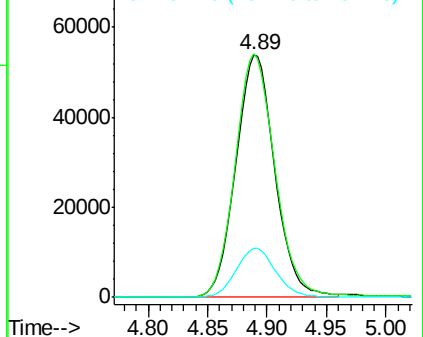
113 100

111 102.8 82.2 123.4

192 20.7 16.2 24.4



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: 3.599 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.15 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

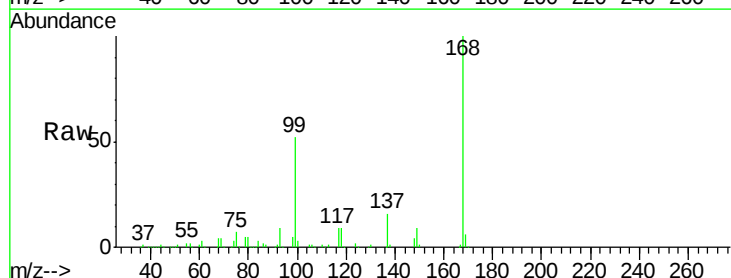
Tgt Ion: 75 Resp: 13041

Ion Ratio Lower Upper

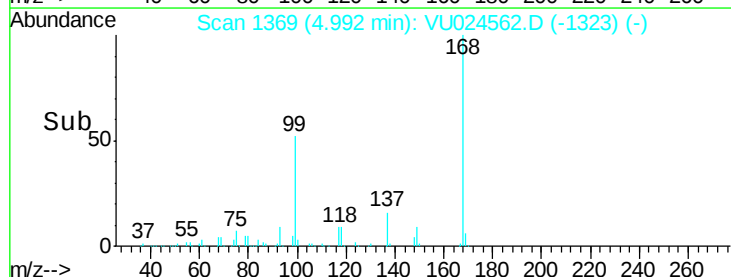
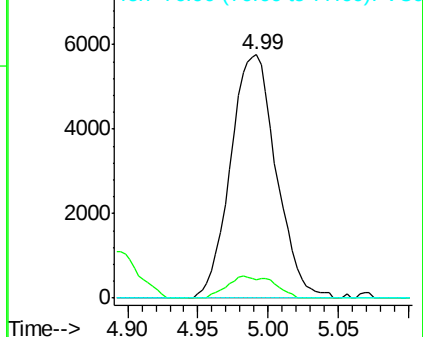
75 100

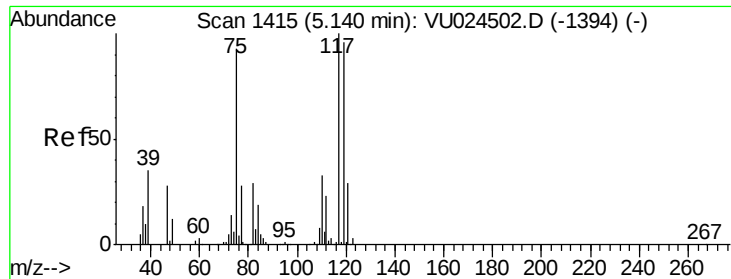
110 5.7 17.0 50.9#

77 0.0 24.2 36.4#



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

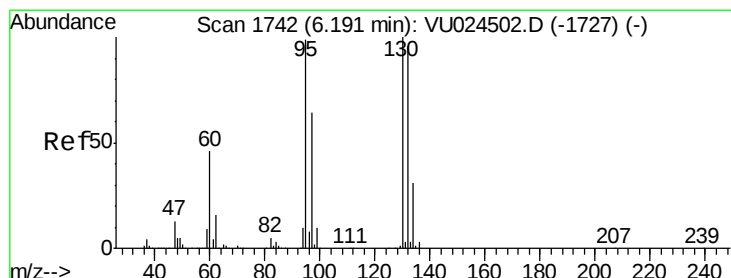
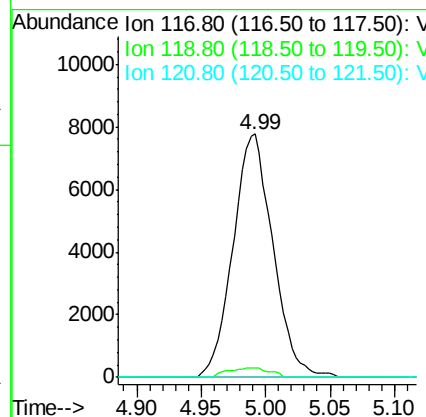
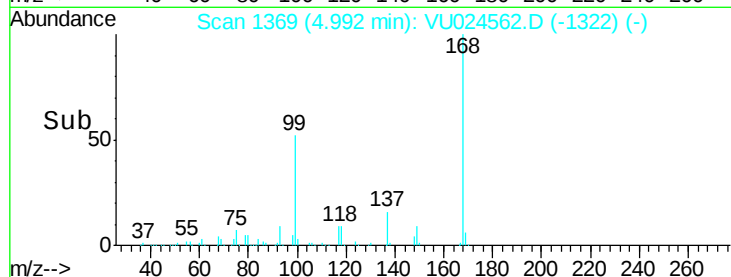
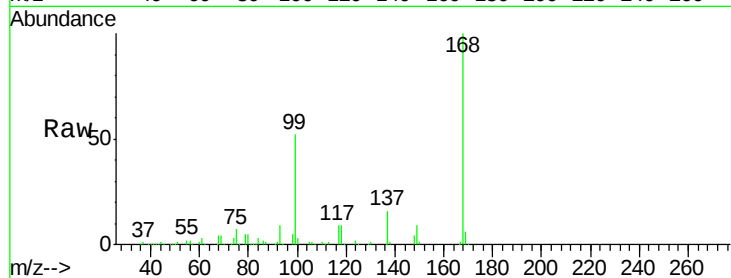




#38
Carbon Tetrachloride
Concen: 4.200 ug/l
RT: 4.99 min Scan# 1369
Delta R.T. -0.15 min
Lab File: VU024562.D
Acq: 15 Jun 2018 00:36

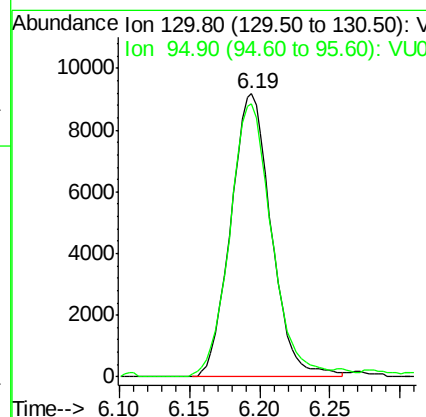
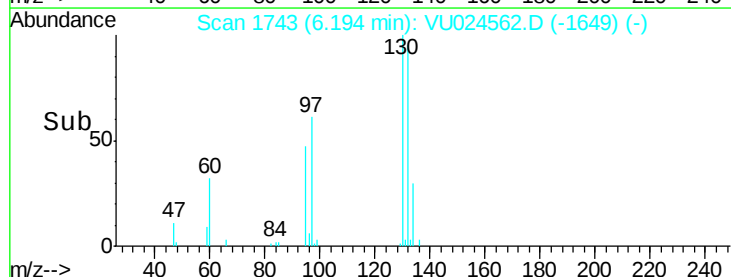
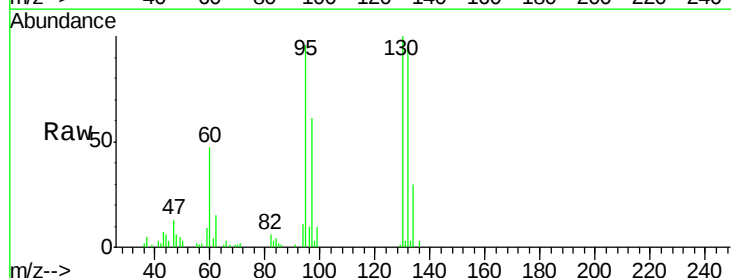
Instrument :
MSVOA_U
ClientSampleId :

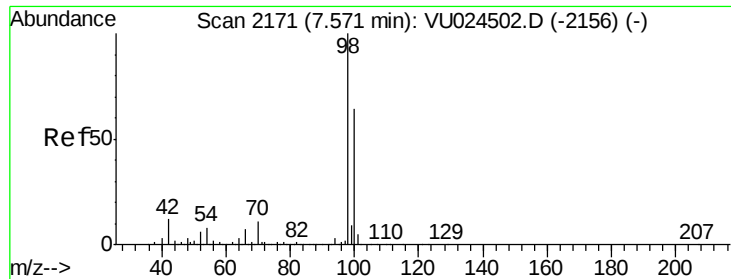
Tot Ion:117 Resp: 16735
Ion Ratio Lower Upper
117 100
119 4.0 76.1 114.1#
121 0.0 23.7 35.5#



#44
Trichloroethene
Concen: 6.277 ug/l
RT: 6.19 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VU024562.D
Acq: 15 Jun 2018 00:36

Tgt Ion:130 Resp: 18445
Ion Ratio Lower Upper
130 100
95 95.4 0.0 202.4

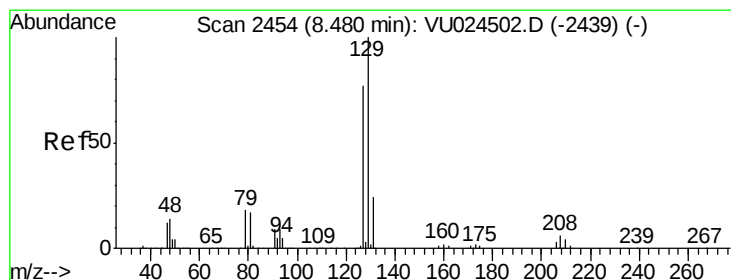
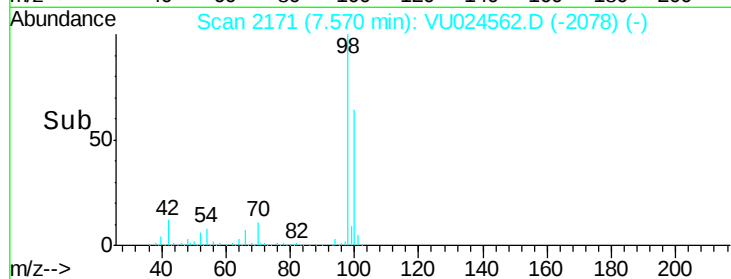
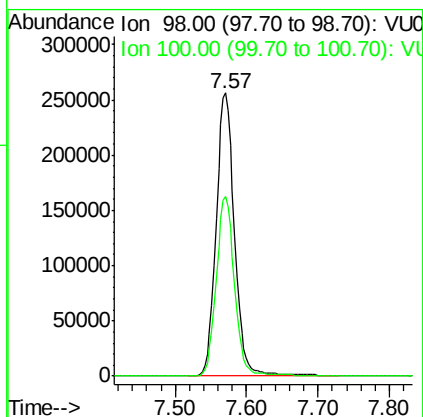
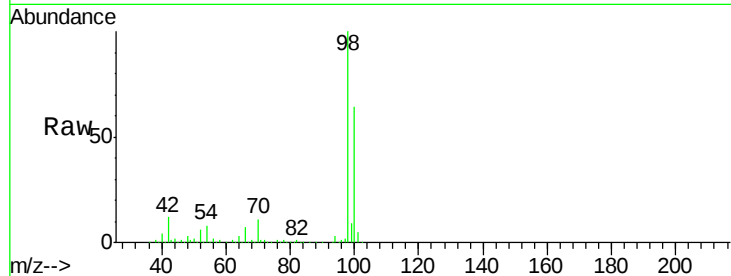




#50
Toluene-d8
Concen: 49.034 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024562.D
Acq: 15 Jun 2018 00:36

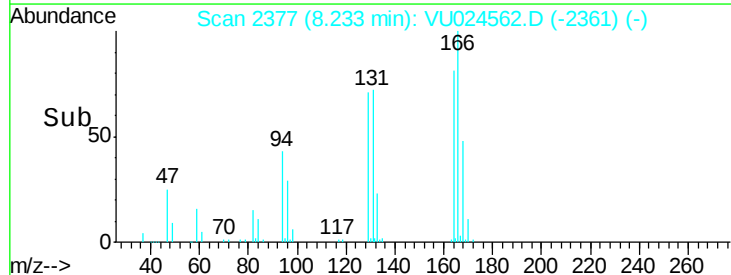
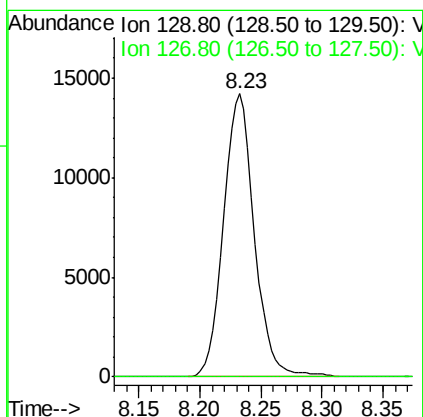
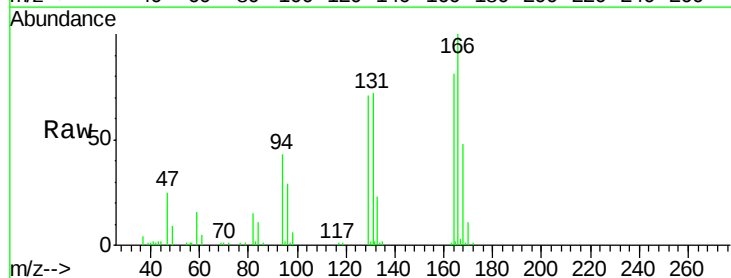
Instrument :
MSVOA_U
ClientSampleId :

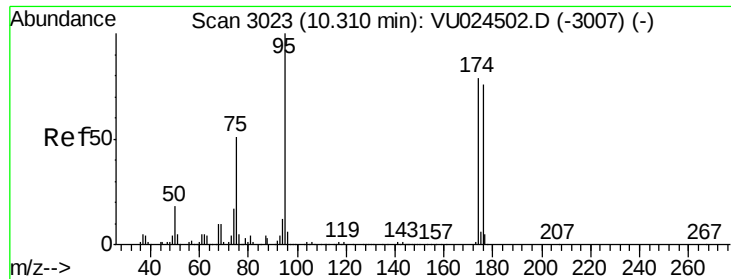
Tot Ion: 98 Resp: 457734
Ion Ratio Lower Upper
98 100
100 62.5 51.1 76.7



#60
Dibromochloromethane
Concen: 7.465 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. -0.25 min
Lab File: VU024562.D
Acq: 15 Jun 2018 00:36

Tgt Ion: 129 Resp: 25135
Ion Ratio Lower Upper
129 100
127 0.0 38.6 116.0#





#62

4-Bromofluorobenzene

Concen: 46.711 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. 0.00 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :

MSVOA_U

ClientSampled :

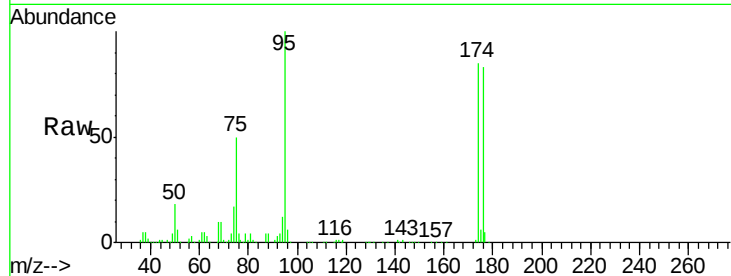
Tot Ion: 95 Resp: 173129

Ion Ratio Lower Upper

95 100

174 85.2 0.0 165.8

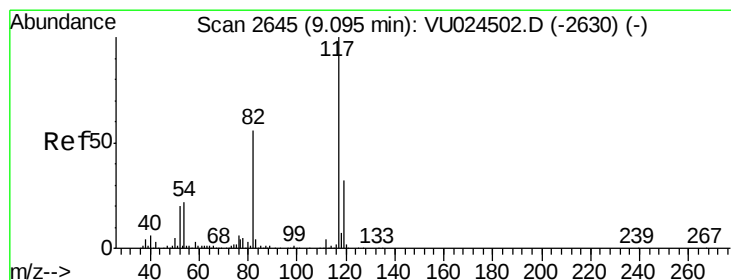
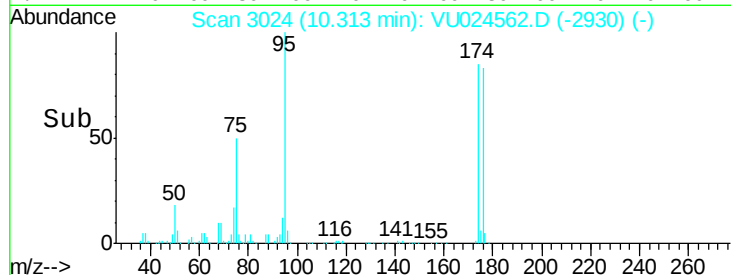
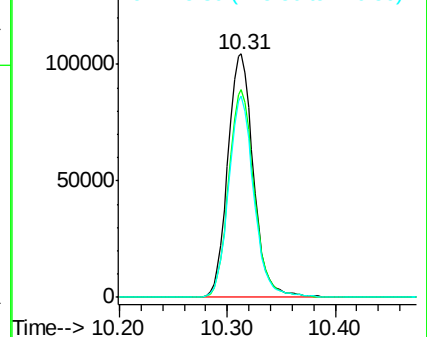
176 81.2 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024502.D (-3007) (-)

Ion 173.80 (173.50 to 174.50): VU024502.D (-3007) (-)

Ion 175.80 (175.50 to 176.50): VU024502.D (-3007) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. -0.00 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

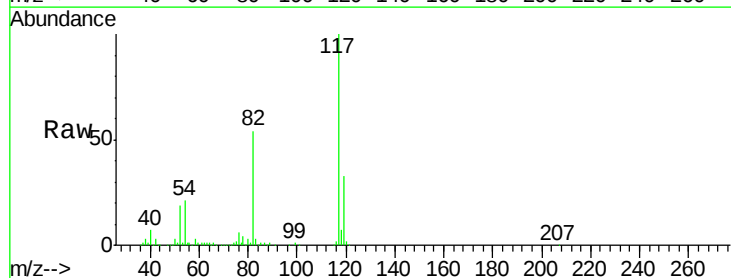
Tgt Ion: 117 Resp: 293775

Ion Ratio Lower Upper

117 100

82 54.3 44.3 66.5

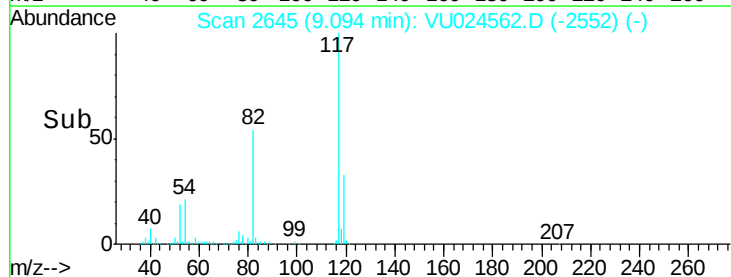
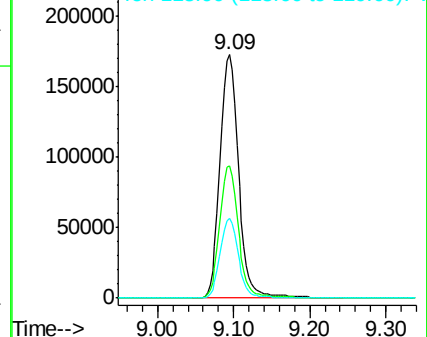
119 32.5 25.4 38.2

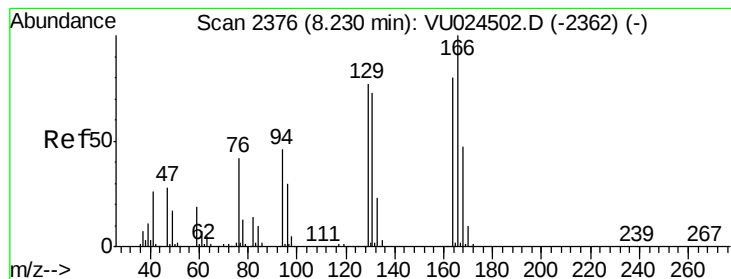


Abundance Ion 116.90 (116.60 to 117.60): VU024502.D (-2630) (-)

Ion 82.00 (81.70 to 82.70): VU024502.D (-2630) (-)

Ion 118.90 (118.60 to 119.60): VU024502.D (-2630) (-)





#64

Tetrachloroethene

Concen: 9.673 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. 0.00 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion:164 Resp: 27011

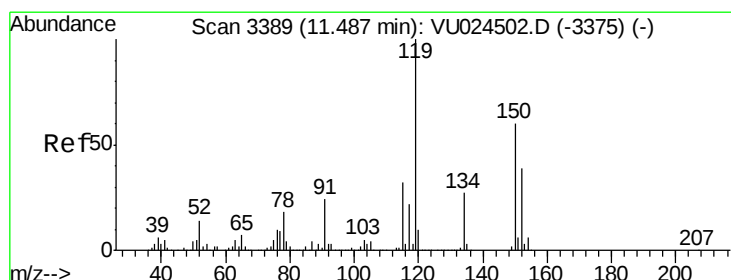
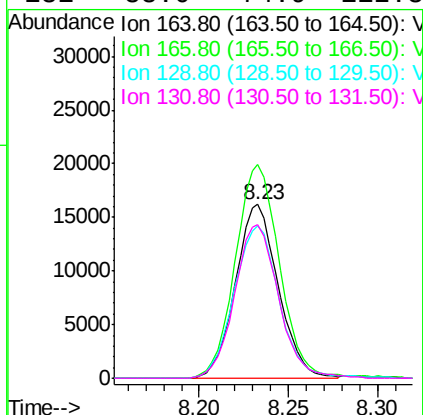
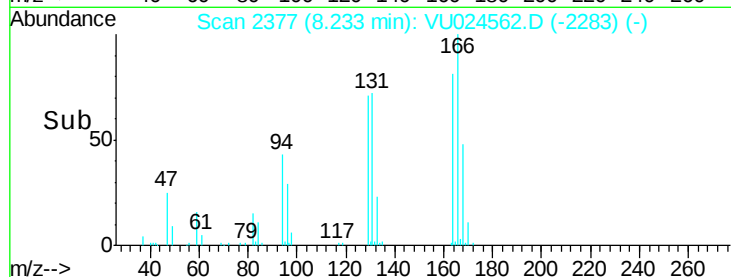
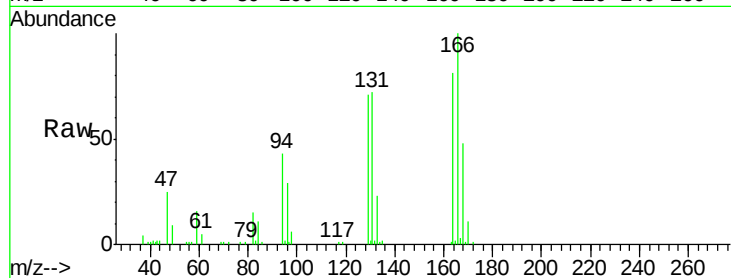
Ion Ratio Lower Upper

164 100

166 122.8 101.7 152.5

129 87.6 76.9 115.3

131 88.0 74.9 112.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

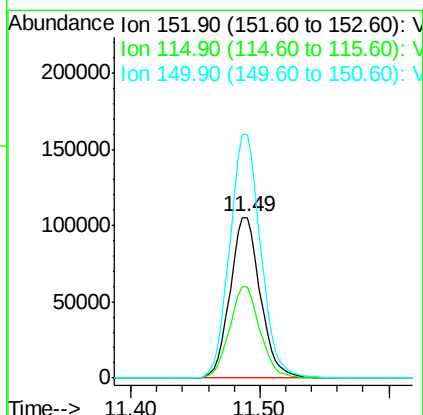
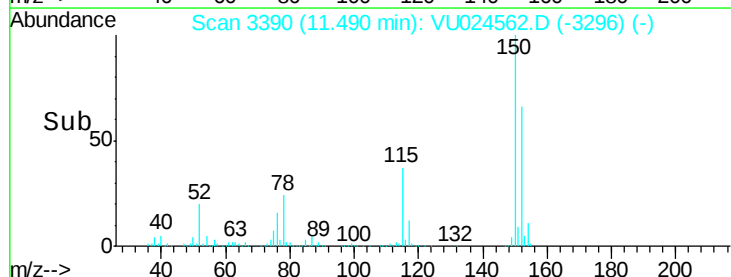
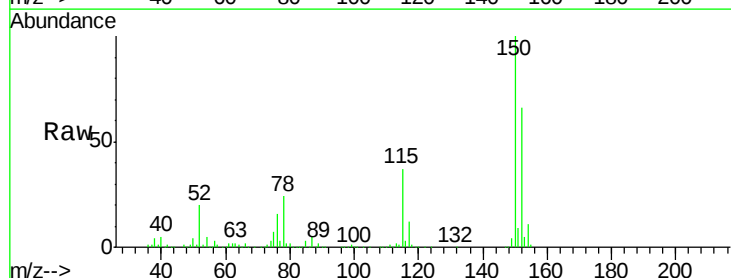
Tgt Ion:152 Resp: 171424

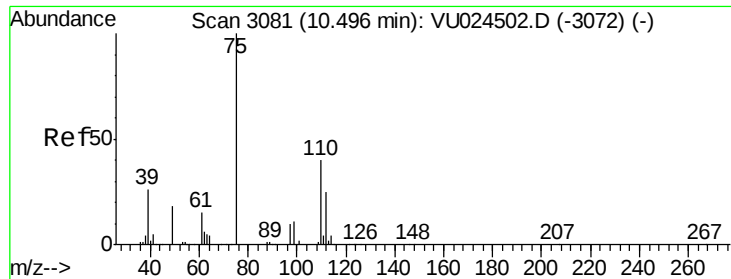
Ion Ratio Lower Upper

152 100

115 57.2 43.0 129.0

150 155.6 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 22.961 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :

MSVOA_U

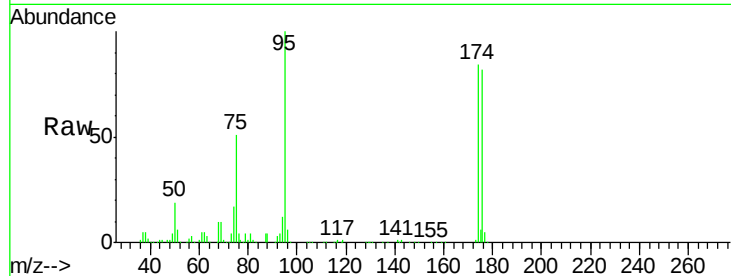
ClientSampleId :

Tot Ion: 75 Resp: 86659

Ion Ratio Lower Upper

75 100

77 1.2 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

10.31

60000

50000

40000

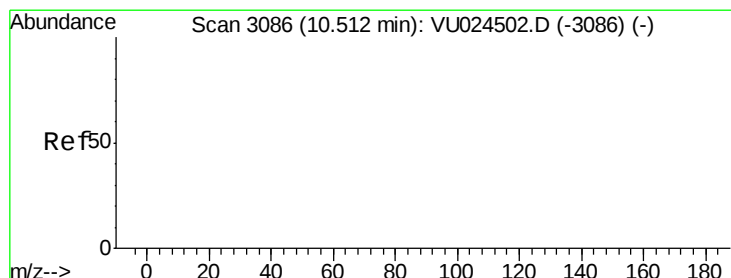
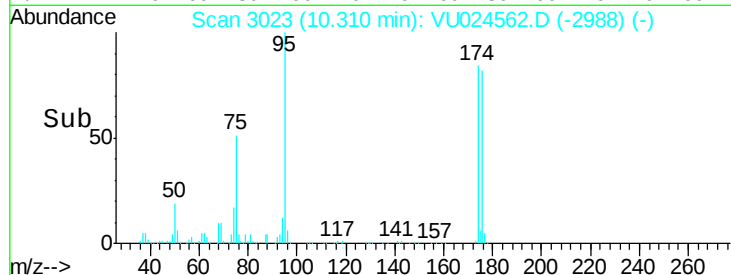
30000

20000

10000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 53.142 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

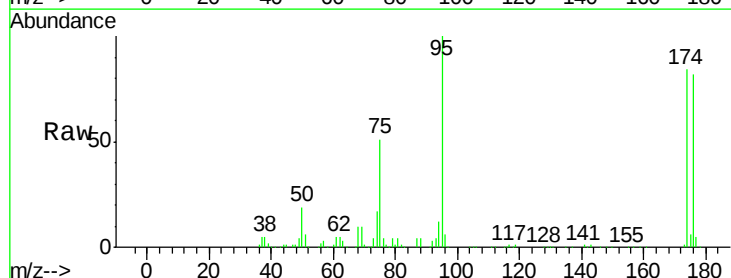
Tgt Ion: 75 Resp: 86659

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

10.31

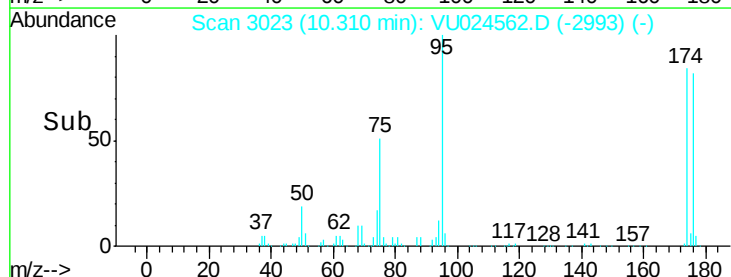
60000

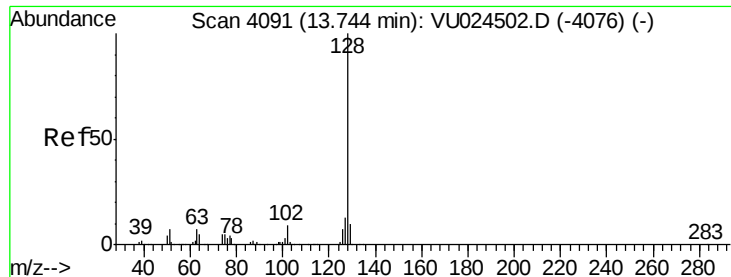
40000

20000

0

Time-->





#95

Naphthalene

Concen: 0.732 ug/l

RT: 13.79 min Scan# 4105

Delta R.T. 0.05 min

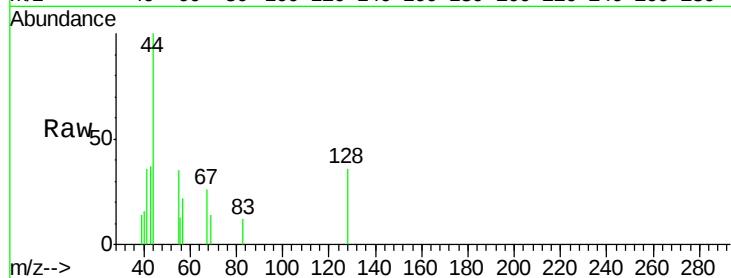
Lab File: VU024562.D

Acq: 15 Jun 2018 00:36

Instrument :

MSVOA_U

ClientSampleId :



Tot Ion:	128	Resp:	677
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	16.0#
129	0.0	8.6	12.8#

