

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062518\
 Data File : VU024874.D
 Acq On : 25 Jun 2018 14:55
 Operator : MD/SY
 Sample : J3662-04DL 100X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 26 05:14:23 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	206825	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	313386	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	290731	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	157304	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	153644	45.50	ug/l	0.00
Spiked Amount			Recovery	=	91.00%	
35) Dibromofluoromethane	4.89	113	122699	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
50) Toluene-d8	7.57	98	455853	48.05	ug/l	0.00
Spiked Amount			Recovery	=	96.10%	
62) 4-Bromofluorobenzene	10.31	95	167789	44.55	ug/l	0.00
Spiked Amount			Recovery	=	89.10%	

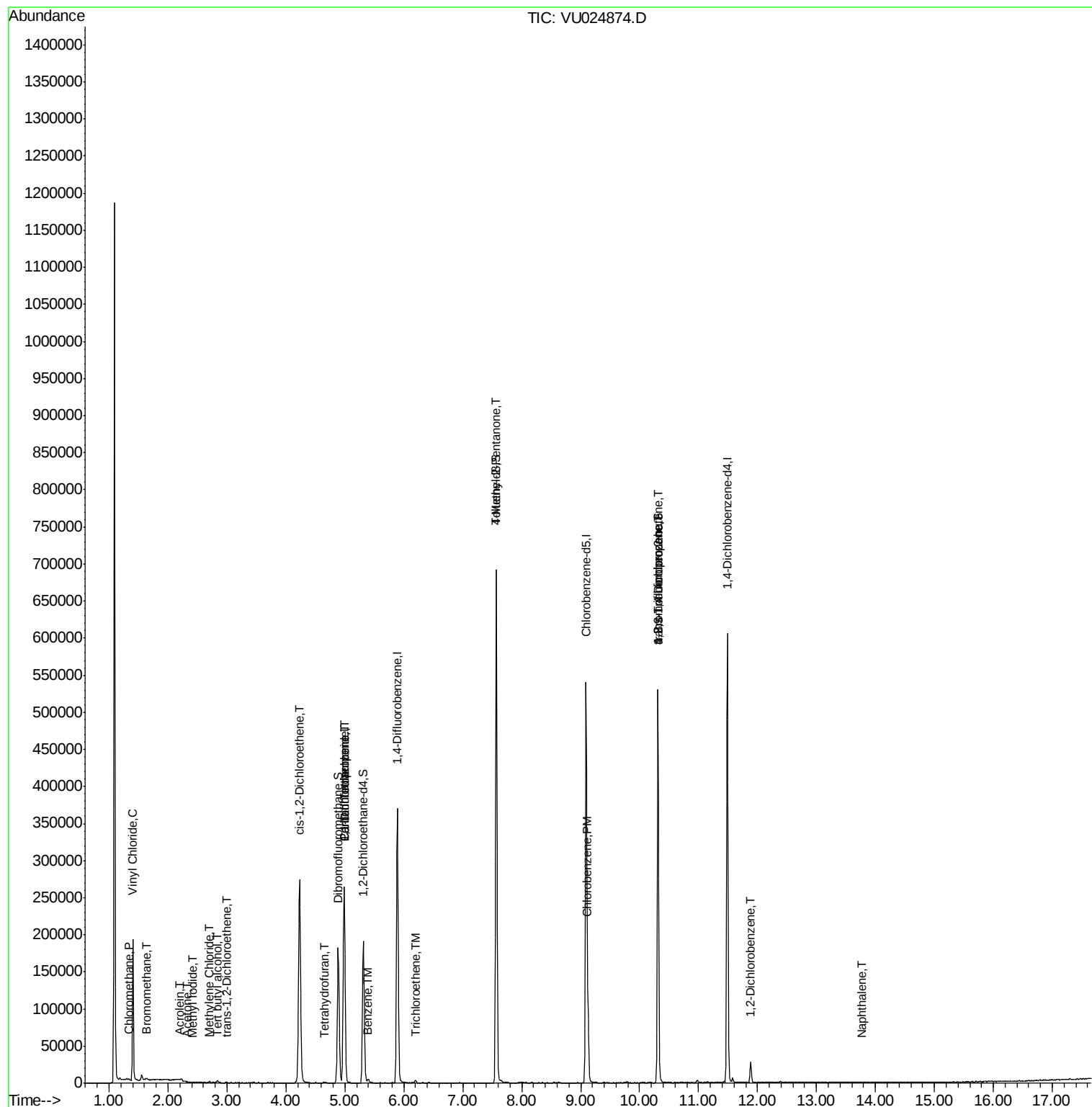
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	940	0.36	ug/l	98
4) Vinyl Chloride	1.40	62	116913	42.86	ug/l	96
5) Bromomethane	1.64	94	620	0.47	ug/l	95
10) Methyl Iodide	2.42	142	163	5.36	ug/l #	40
11) Tert butyl alcohol	2.84	59	1811	2.21	ug/l #	72
13) Acrolein	2.20	56	182	0.42	ug/l #	67
16) Acetone	2.33	43	430	0.24	ug/l #	54
20) Methylene Chloride	2.70	84	630	0.22	ug/l #	92
21) trans-1,2-Dichloroethene	2.99	96	597	0.23	ug/l #	88
27) cis-1,2-Dichloroethene	4.23	96	152510	51.14	ug/l	88
29) Tetrahydrofuran	4.66	42	437	0.29	ug/l #	34
31) Cyclohexane	4.99	56	4216	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15220	4.13	ug/l #	52
38) Carbon Tetrachloride	4.99	117	19651	4.85	ug/l #	16
40) Benzene	5.40	78	4003	0.38	ug/l #	87
44) Trichloroethene	6.19	130	1182	0.40	ug/l	93
51) 4-Methyl-2-Pentanone	7.57	43	2312	0.53	ug/l #	1
65) Chlorobenzene	9.12	112	53292	7.18	ug/l	100
76) 1,2,3-Trichloropropane	10.31	75	89445	25.83	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	89445	59.77	ug/l #	100
91) 1,2-Dichlorobenzene	11.89	146	11443	2.02	ug/l	99
95) Naphthalene	13.77	128	289	0.70	ug/l #	69

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

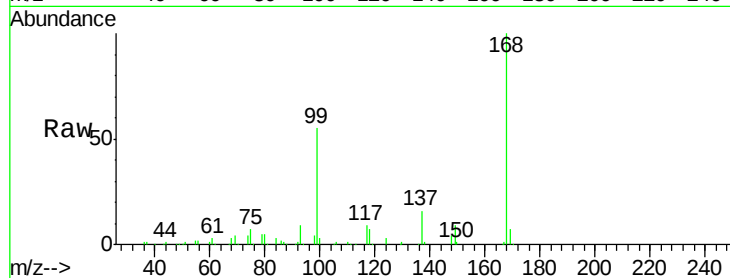
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 206825

Ion Ratio Lower Upper

168 100

99 54.6 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) (-)

4.99

100000

80000

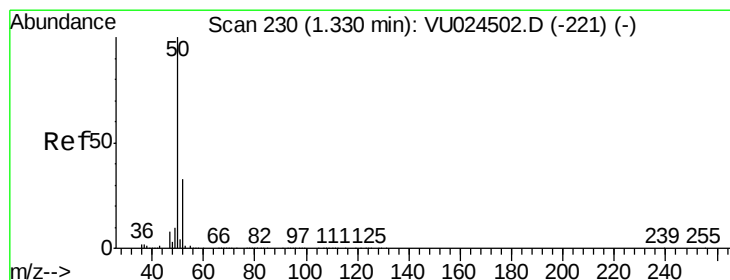
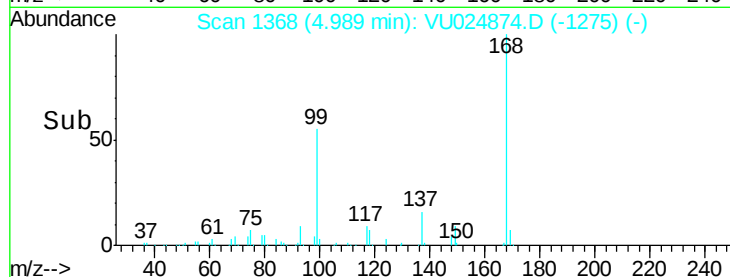
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.36 ug/l

RT: 1.33 min Scan# 229

Delta R.T. -0.00 min

Lab File: VU024874.D

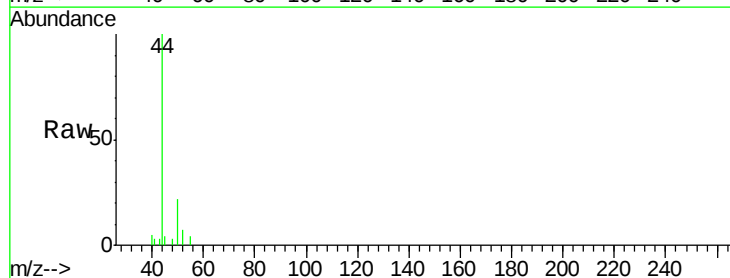
Acq: 25 Jun 2018 14:55

Tgt Ion: 50 Resp: 940

Ion Ratio Lower Upper

50 100

52 31.8 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)

1.33

800

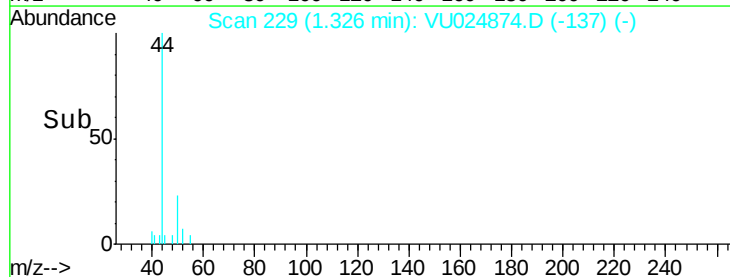
600

400

200

0

Time-->





#4

Vinyl Chloride

Concen: 42.86 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

Instrument :

MSVOA_U

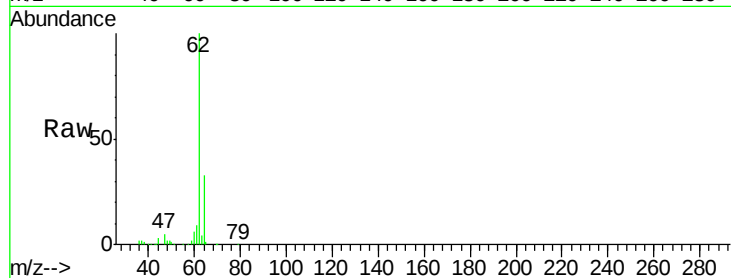
ClientSampleId :

Tot Ion: 62 Resp: 116913

Ion Ratio Lower Upper

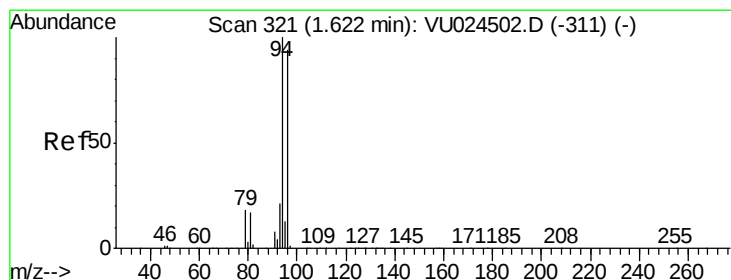
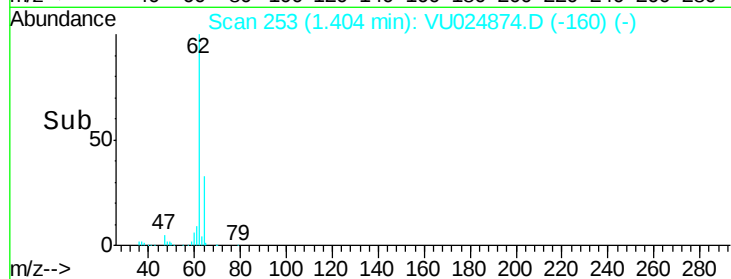
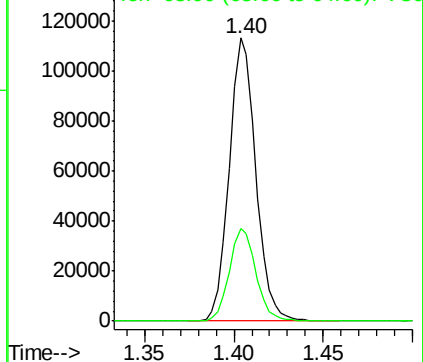
62 100

64 32.9 24.8 37.2



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.47 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024874.D

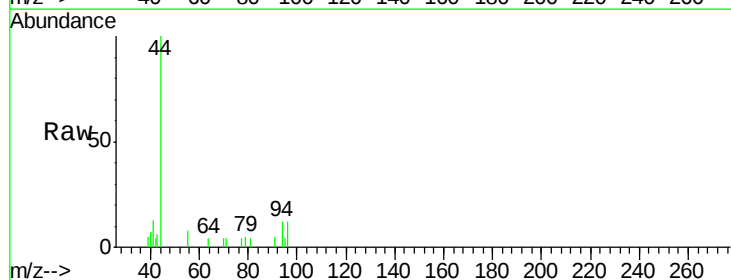
Acq: 25 Jun 2018 14:55

Tgt Ion: 94 Resp: 620

Ion Ratio Lower Upper

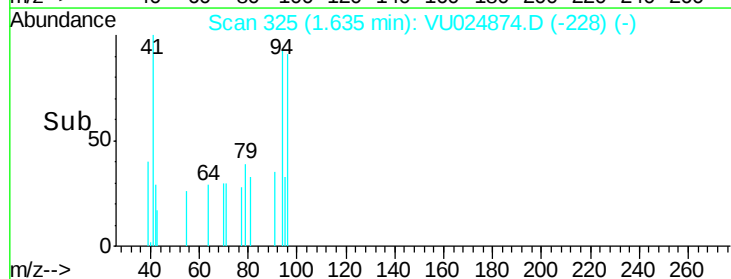
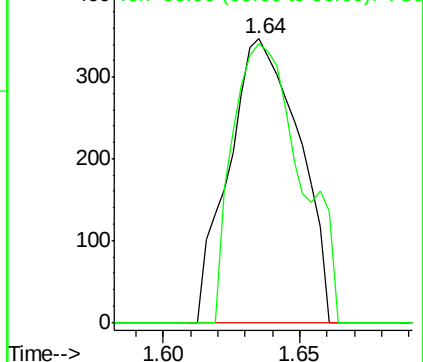
94 100

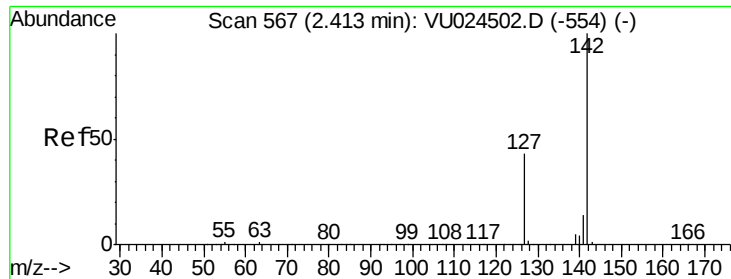
96 98.3 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0

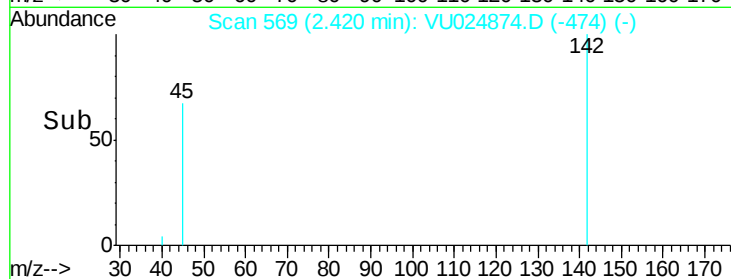
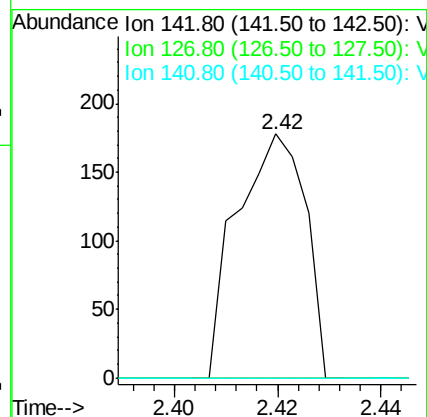
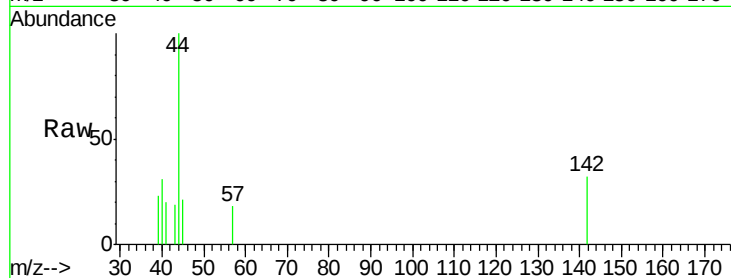




#10
Methvl Iodide
Concen: 5.36 ug/l
RT: 2.42 min Scan# 569
Delta R.T. 0.01 min
Lab File: VU024874.D
Acq: 25 Jun 2018 14:55

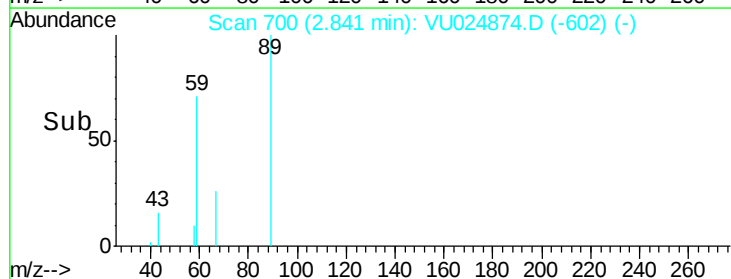
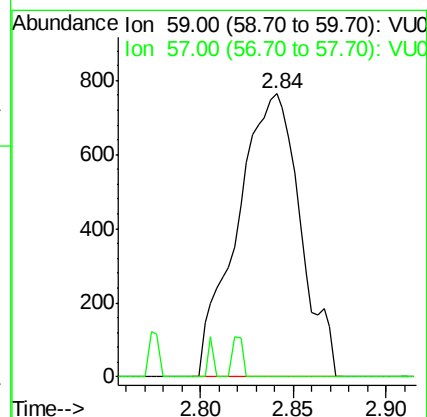
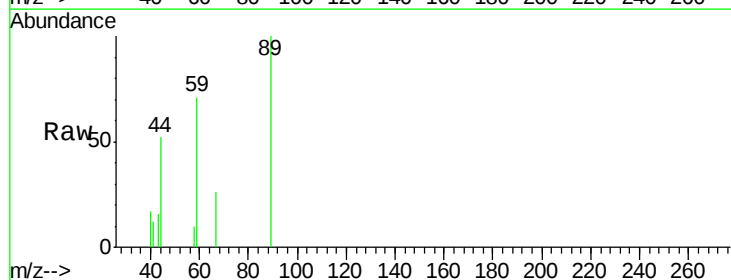
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:142 Resp: 163
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 2.21 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU024874.D
Acq: 25 Jun 2018 14:55

Tgt Ion: 59 Resp: 1811
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





#13

Acrolein

Concen: 0.42 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

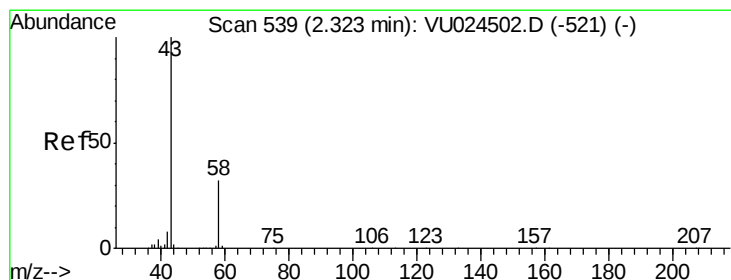
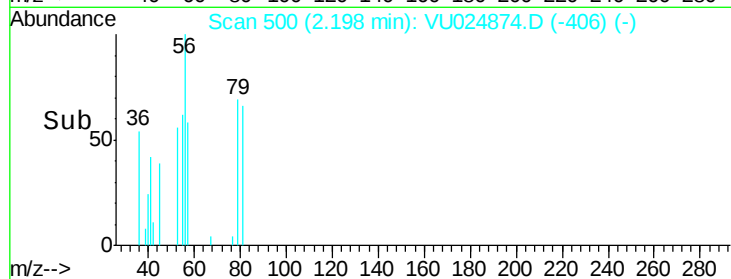
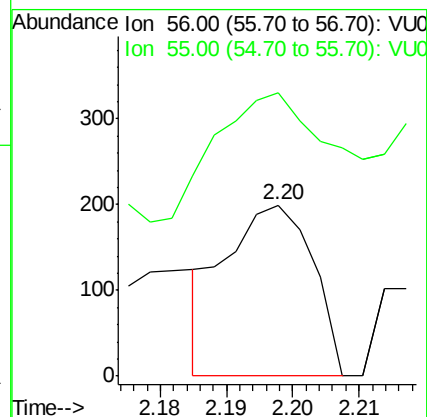
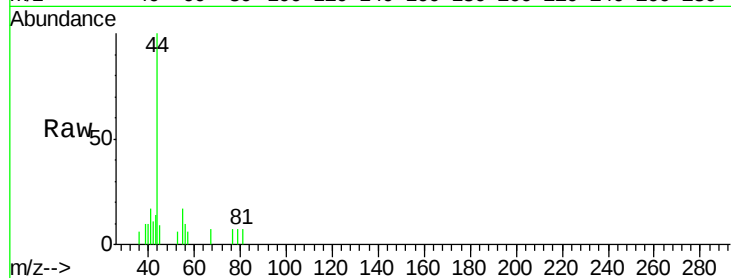
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 182

Ion Ratio Lower Upper

56 100

55 100.5 58.4 87.6#



#16

Acetone

Concen: 0.24 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024874.D

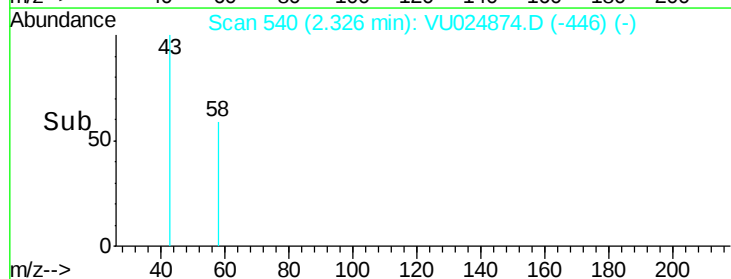
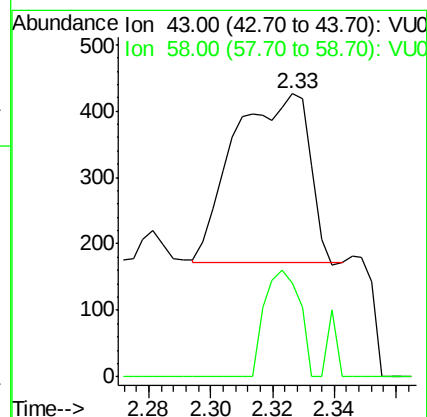
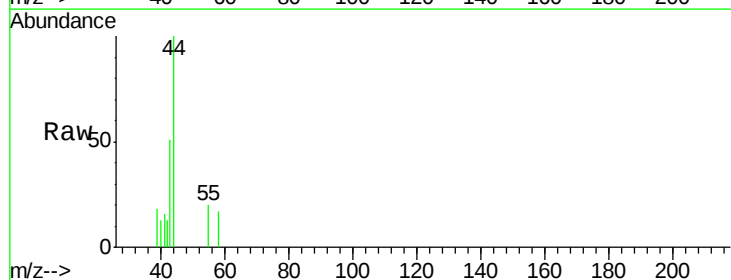
Acq: 25 Jun 2018 14:55

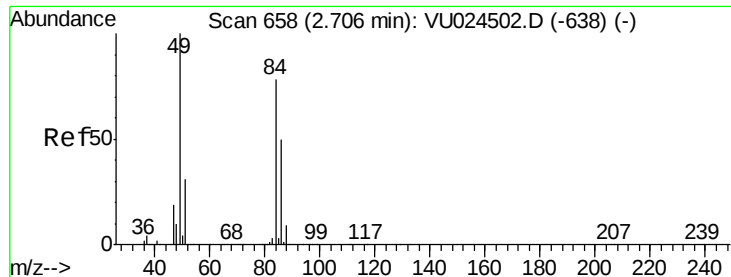
Tgt Ion: 43 Resp: 430

Ion Ratio Lower Upper

43 100

58 55.5 24.4 36.6#

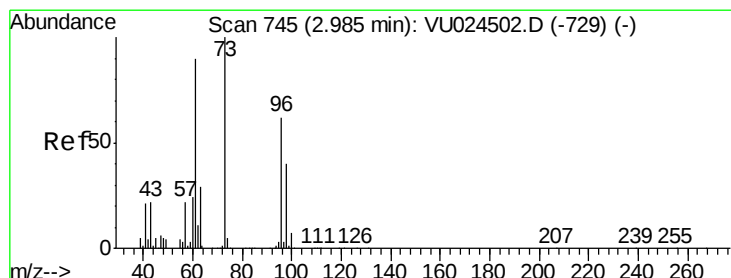
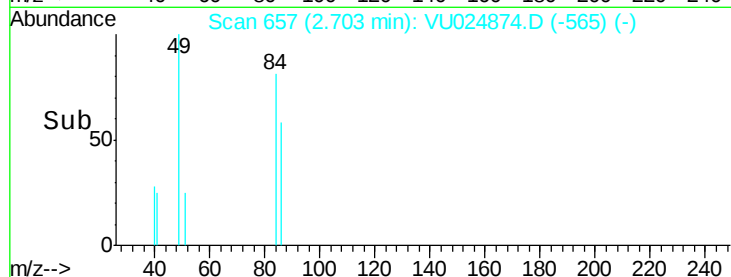
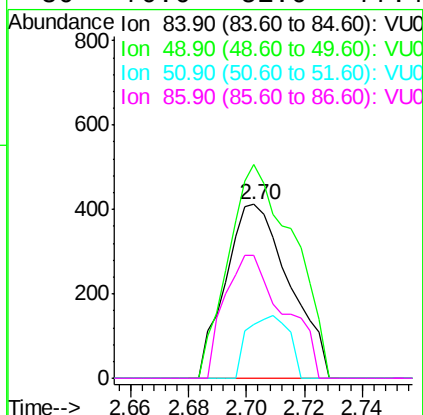
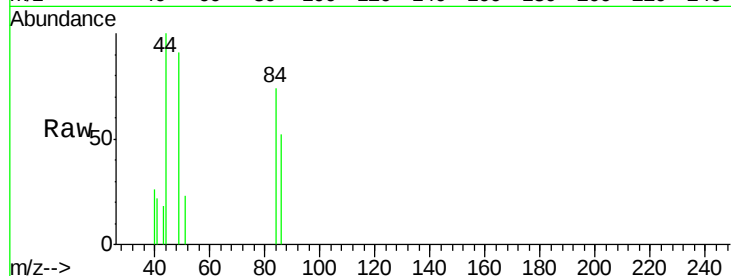




#20
Methvlene Chloride
Concen: 0.22 ug/l
RT: 2.70 min Scan# 657
Delta R.T. -0.00 min
Lab File: VU024874.D
Acq: 25 Jun 2018 14:55

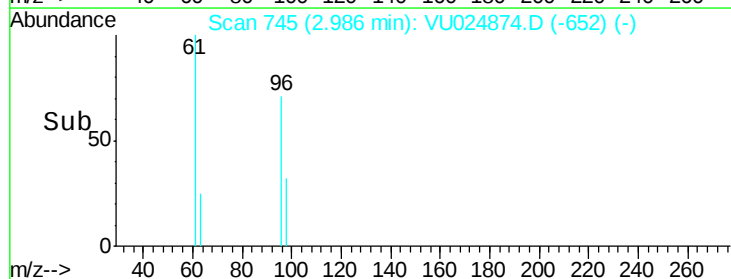
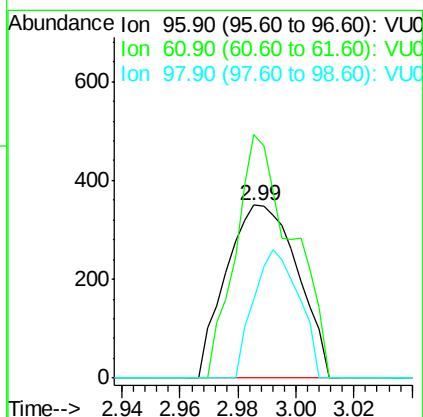
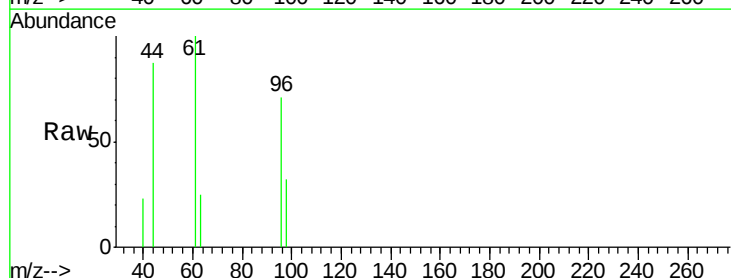
Instrument :
MSVOA_U
ClientSampleId :

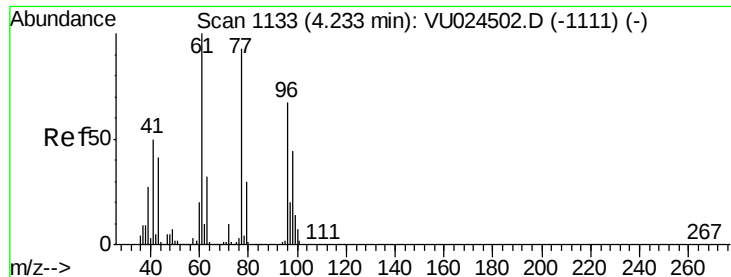
Tot Ion: 84 Resp: 630
Ion Ratio Lower Upper
84 100
49 122.8 103.8 155.8
51 30.8 32.0 48.0#
86 70.6 51.6 77.4



#21
trans-1,2-Dichloroethene
Concen: 0.23 ug/l
RT: 2.99 min Scan# 745
Delta R.T. 0.00 min
Lab File: VU024874.D
Acq: 25 Jun 2018 14:55

Tgt Ion: 96 Resp: 597
Ion Ratio Lower Upper
96 100
61 140.9 119.4 179.0
98 45.1 51.1 76.7#





#27

cis-1,2-Dichloroethene

Concen: 51.14 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

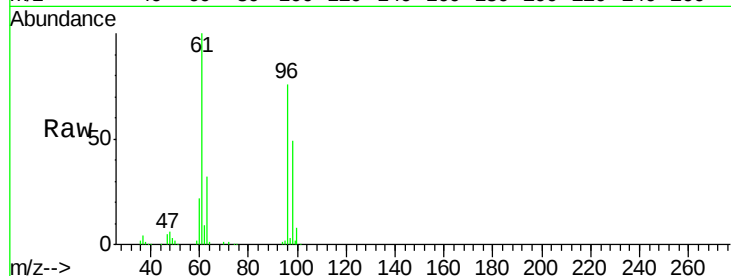
Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 96 Resp: 152510

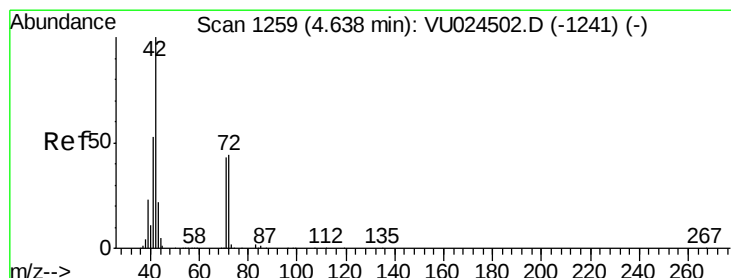
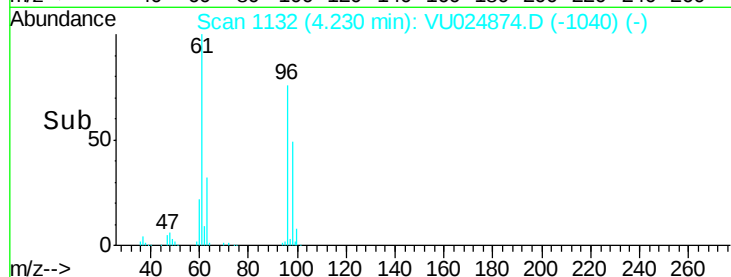
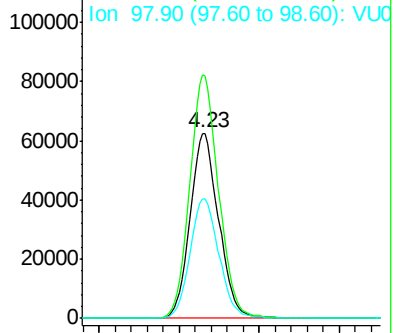
Ion	Ratio	Lower	Upper
96	100		
61	132.9	0.0	306.6
98	65.3	0.0	128.8



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: 0.29 ug/l

RT: 4.66 min Scan# 1265

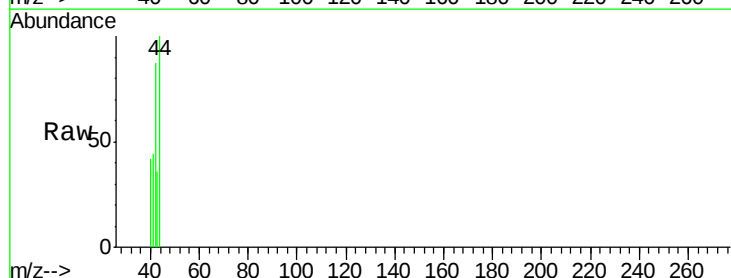
Delta R.T. 0.02 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

Tgt Ion: 42 Resp: 437

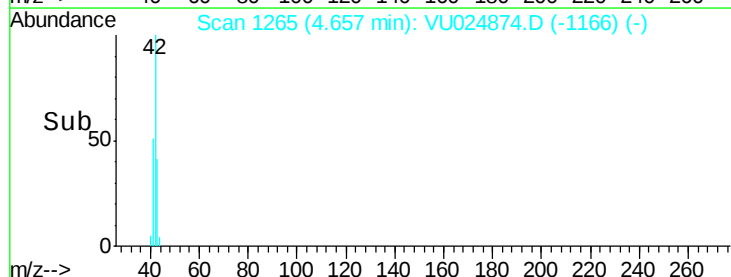
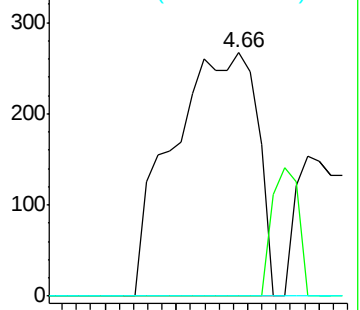
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.5	51.7#
71	0.0	32.2	48.4#

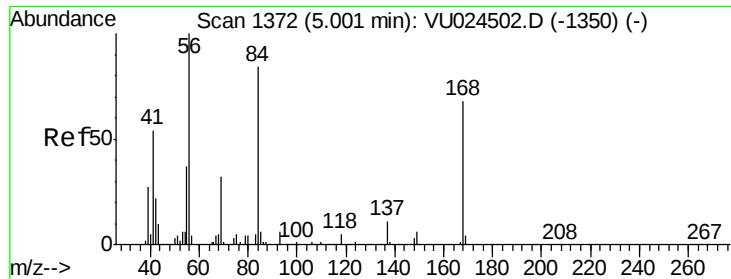


Abundance Ion 42.00 (41.70 to 42.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

Ion 71.00 (70.70 to 71.70): VU0

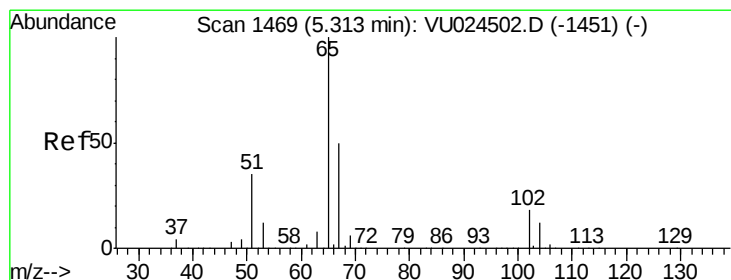
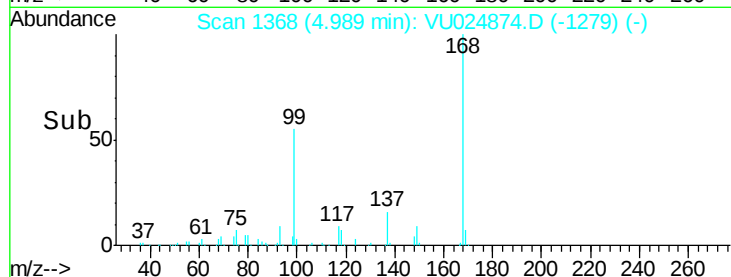
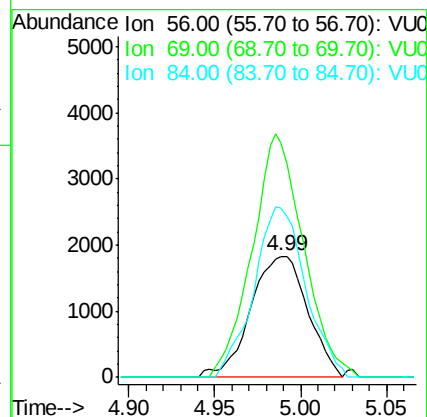
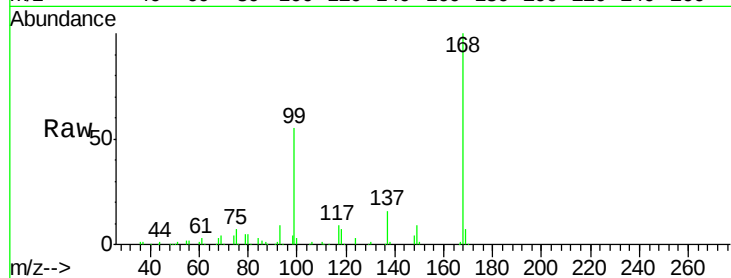




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024874.D
Acq: 25 Jun 2018 14:55

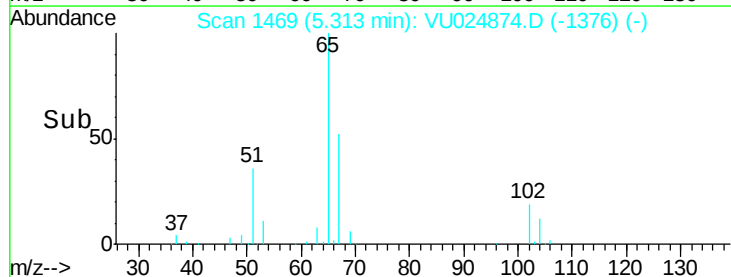
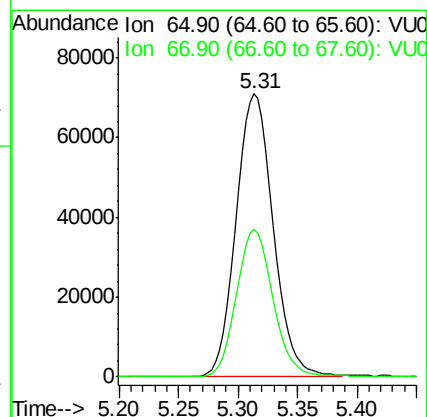
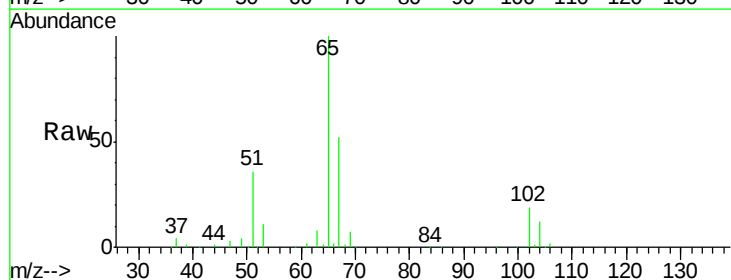
Instrument :
MSVOA_U
ClientSampleId :

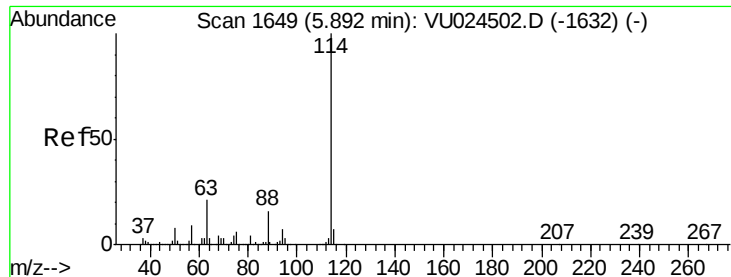
Tot Ion: 56 Resp: 4216
Ion Ratio Lower Upper
56 100
69 193.9 24.8 37.2#
84 139.8 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.50 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU024874.D
Acq: 25 Jun 2018 14:55

Tgt Ion: 65 Resp: 153644
Ion Ratio Lower Upper
65 100
67 51.4 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

Instrument :
MSVOA_U
ClientSampleId :

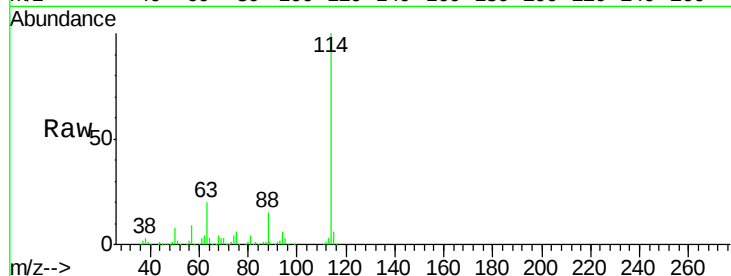
Tot Ion:114 Resp: 313386

Ion Ratio Lower Upper

114 100

63 20.2 0.0 45.4

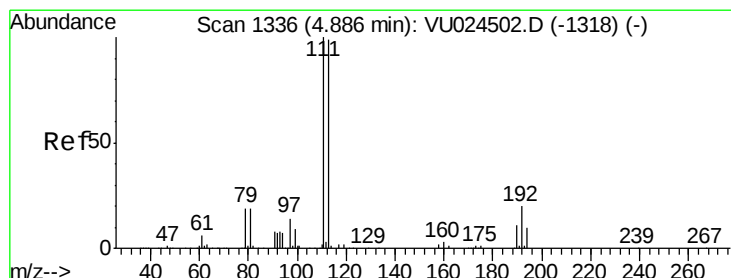
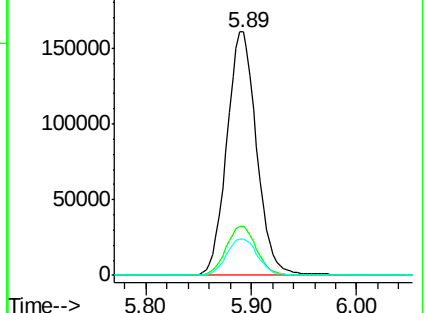
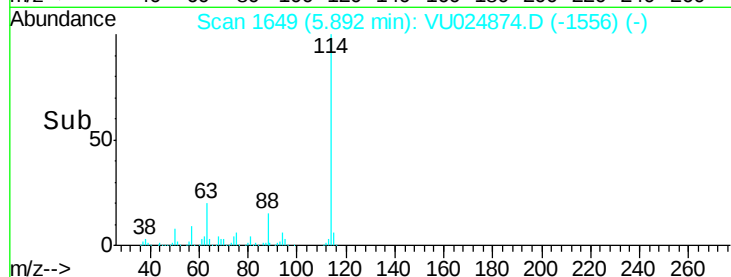
88 15.1 0.0 31.0



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: 47.18 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

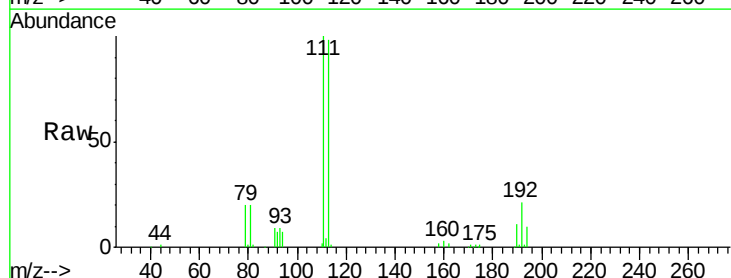
Tgt Ion:113 Resp: 122699

Ion Ratio Lower Upper

113 100

111 101.9 82.2 123.4

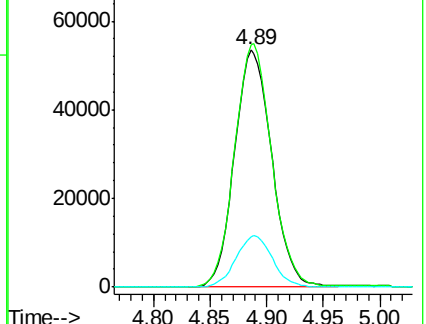
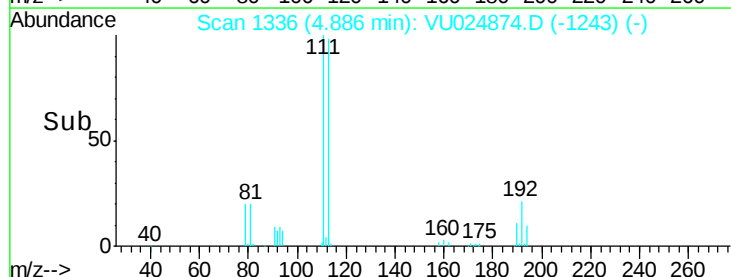
192 21.3 16.2 24.4

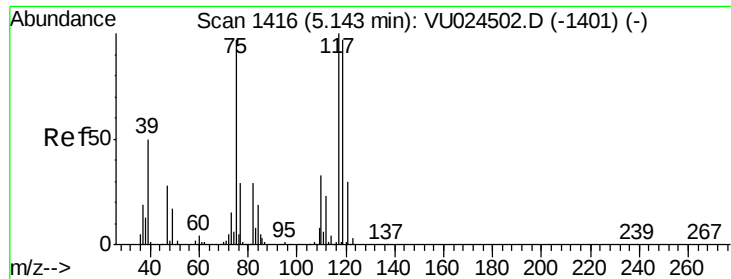


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

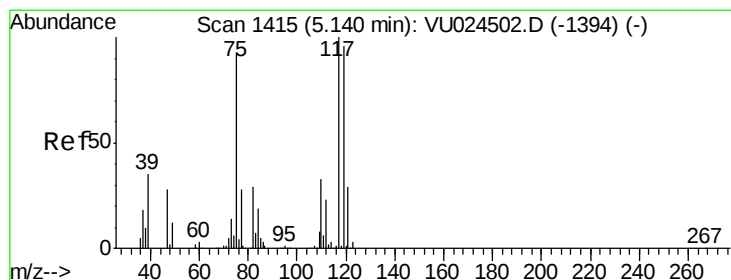
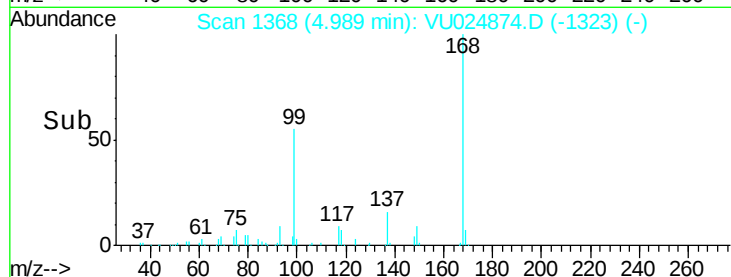
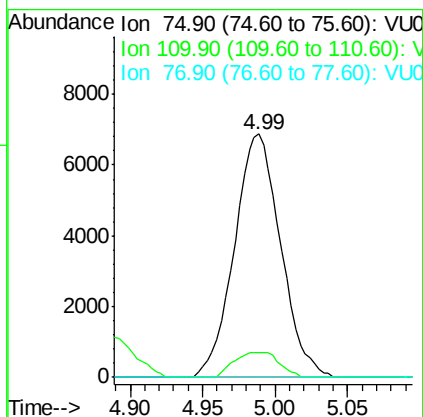
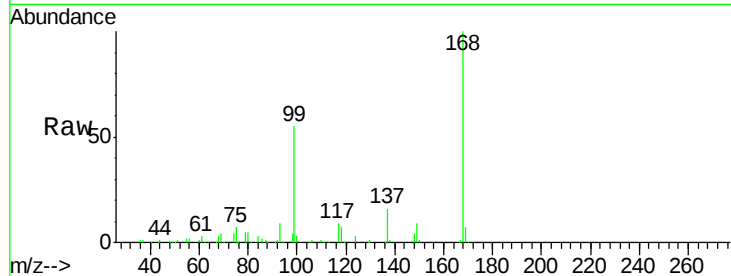




#36
 1,1-Dichloropropene
 Concen: 4.13 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024874.D
 Acq: 25 Jun 2018 14:55

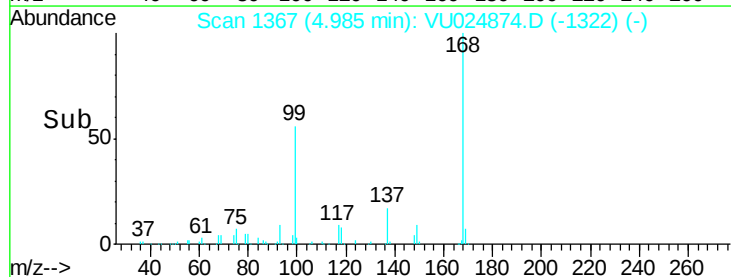
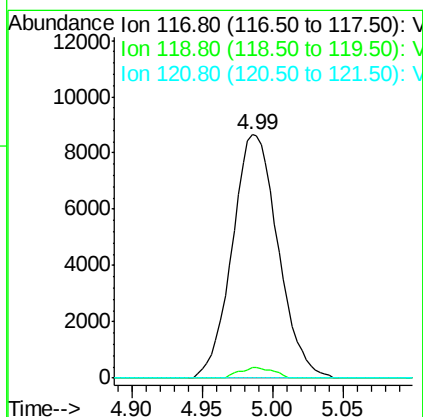
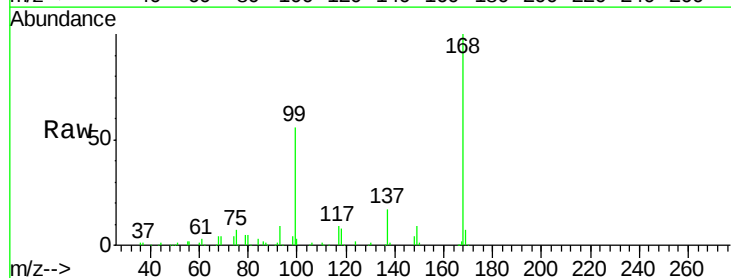
Instrument :
 MSVOA_U
 ClientSampleId :

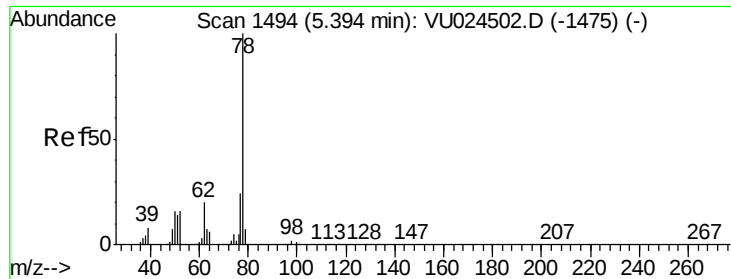
Tot Ion	75	Resp	15220
Ion Ratio	Lower	Upper	
75	100		
110	10.1	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 4.85 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU024874.D
 Acq: 25 Jun 2018 14:55

Tgt Ion	117	Resp	19651
Ion Ratio	Lower	Upper	
117	100		
119	4.3	76.1	114.1#
121	0.0	23.7	35.5#





#40

Benzene

Concen: 0.38 ug/l

RT: 5.40 min Scan# 1497

Delta R.T. 0.01 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

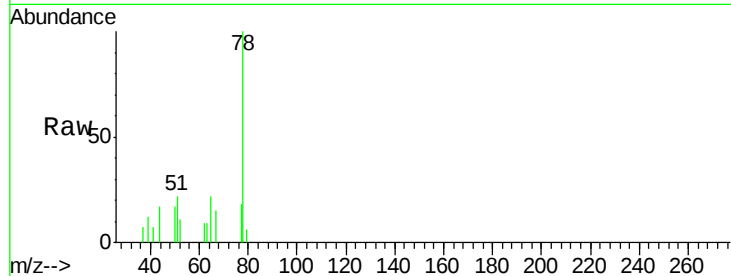
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 78 Resp: 4003

Ion Ratio Lower Upper

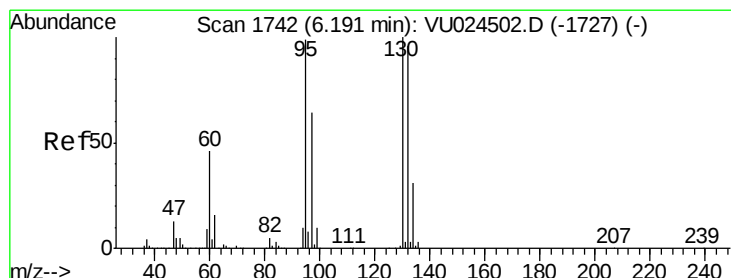
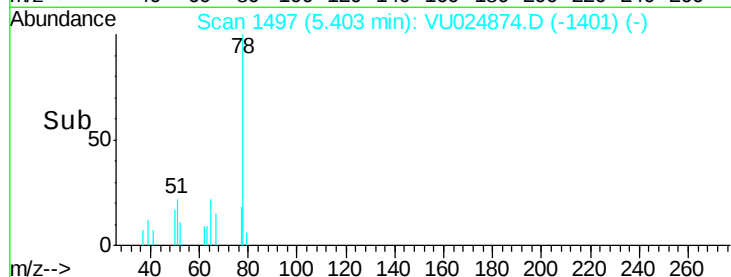
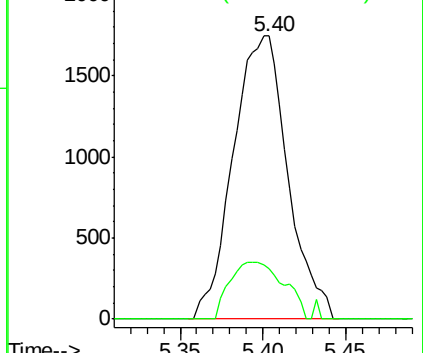
78 100

77 17.7 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0



#44

Trichloroethene

Concen: 0.40 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU024874.D

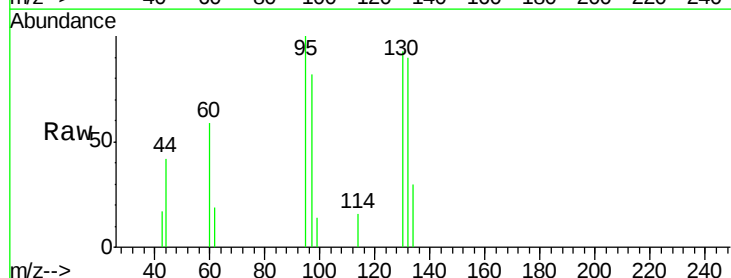
Acq: 25 Jun 2018 14:55

Tgt Ion: 130 Resp: 1182

Ion Ratio Lower Upper

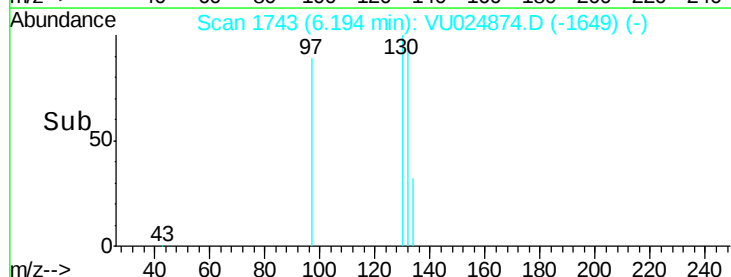
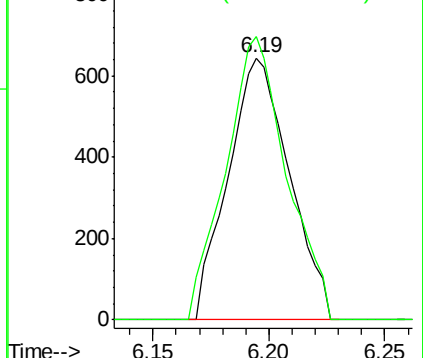
130 100

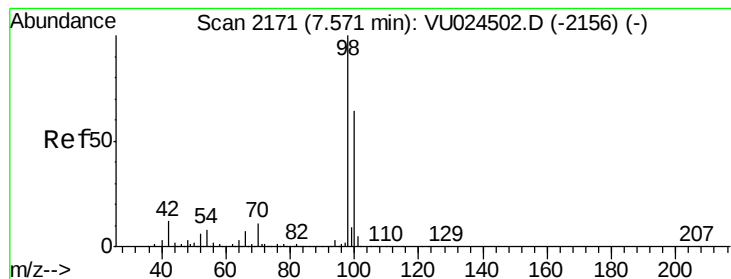
95 108.1 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 48.05 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

Instrument :

MSVOA_U

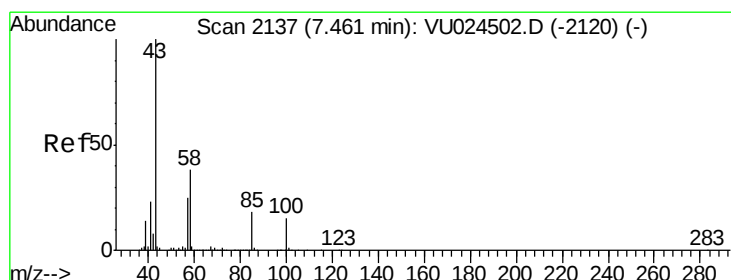
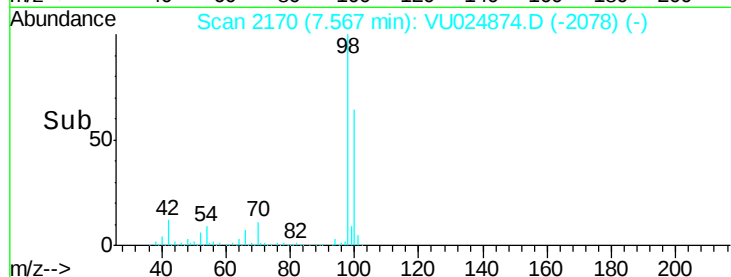
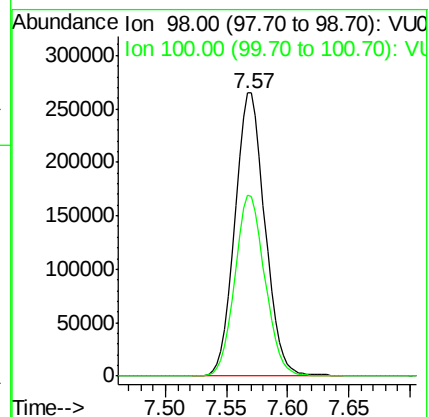
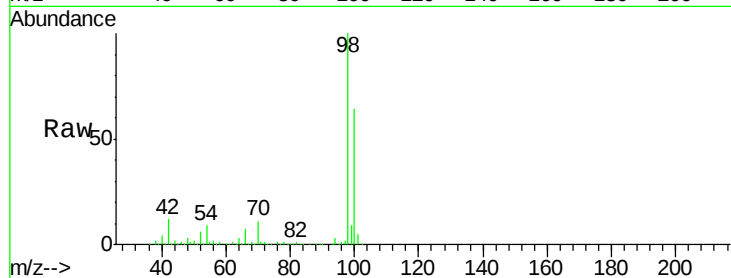
ClientSampleId :

Tot Ion: 98 Resp: 455853

Ion Ratio Lower Upper

98 100

100 64.0 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.53 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.11 min

Lab File: VU024874.D

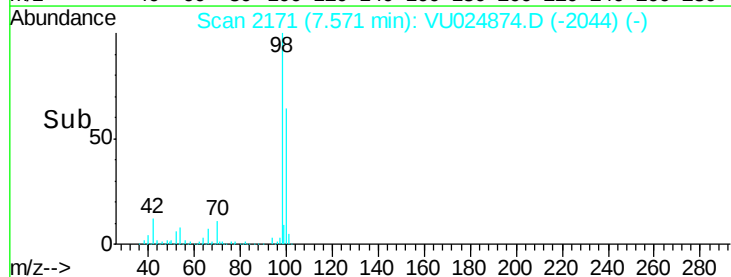
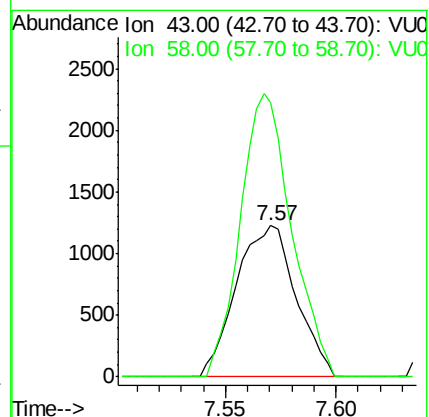
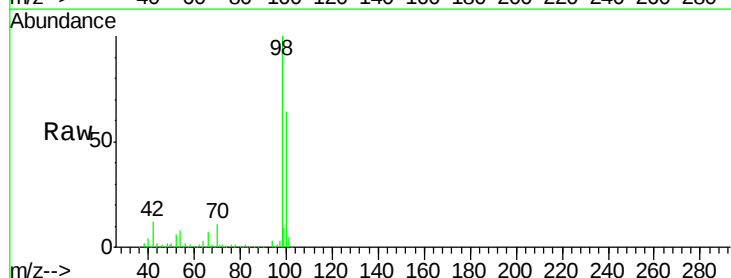
Acq: 25 Jun 2018 14:55

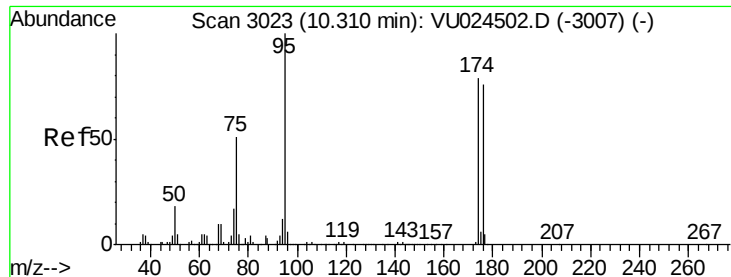
Tgt Ion: 43 Resp: 2312

Ion Ratio Lower Upper

43 100

58 160.5 30.0 45.0#





#62

4-Bromofluorobenzene

Concen: 44.55 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

Instrument :

MSVOA_U

ClientSampled :

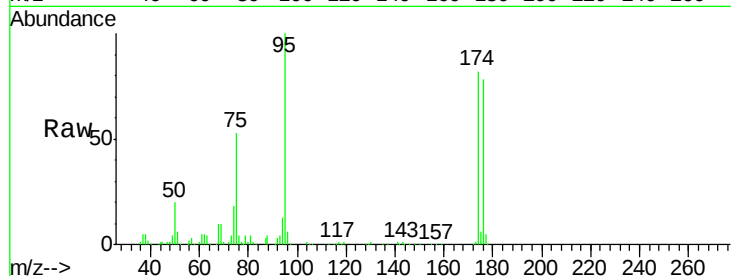
Tot Ion: 95 Resp: 167789

Ion Ratio Lower Upper

95 100

174 85.4 0.0 165.8

176 81.7 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) (-)

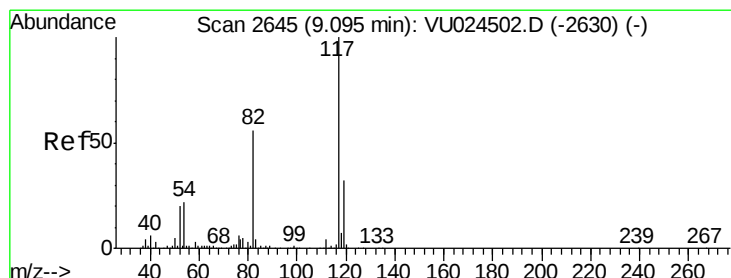
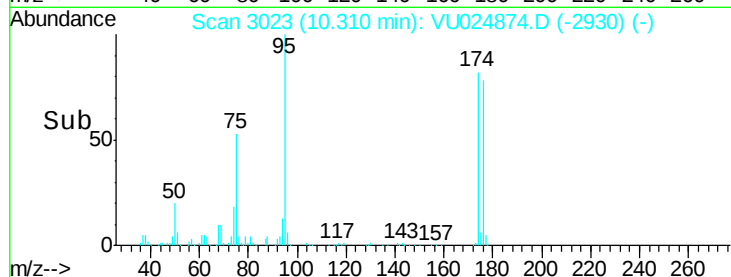
10.31

100000

50000

0

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU024874.D

Acq: 25 Jun 2018 14:55

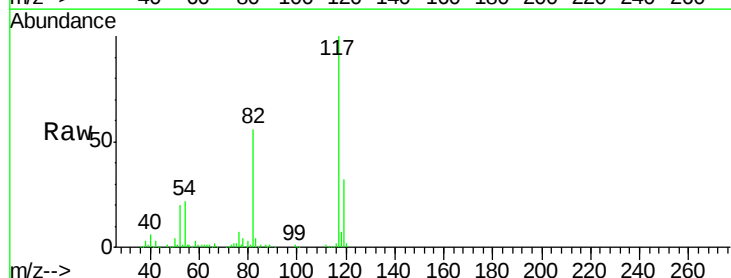
Tgt Ion: 117 Resp: 290731

Ion Ratio Lower Upper

117 100

82 56.1 44.3 66.5

119 32.0 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) (-)

9.09

200000

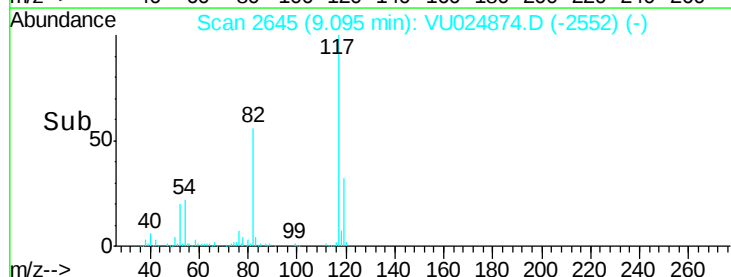
150000

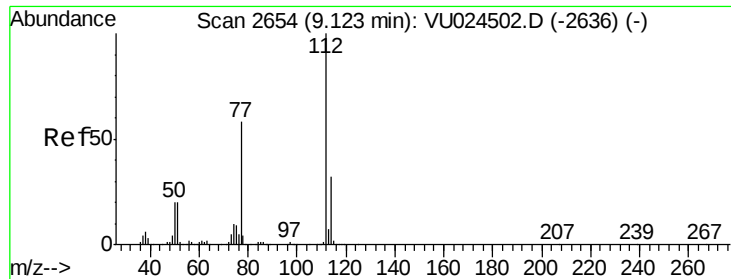
100000

50000

0

Time-->

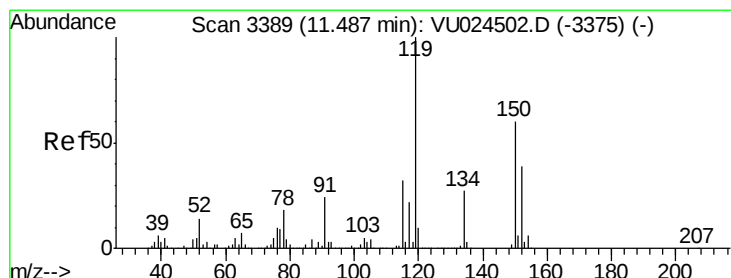
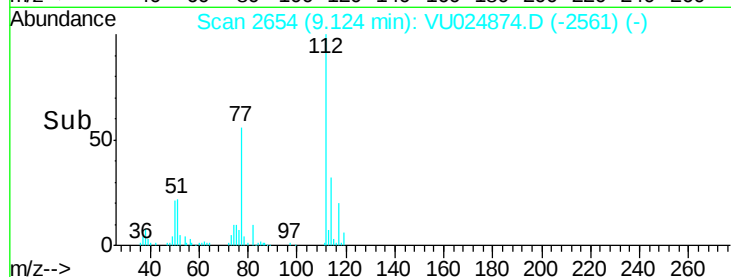
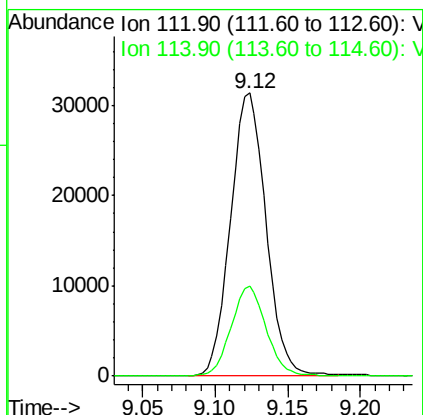
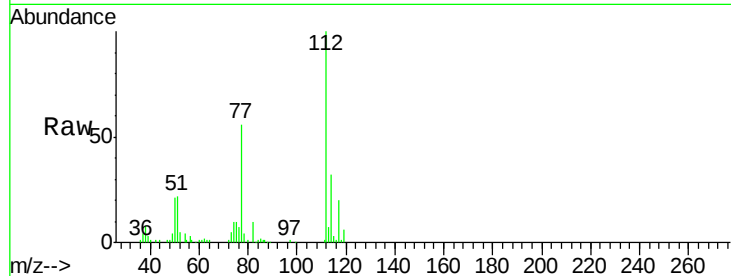




#65
Chlorobenzene
Concen: 7.18 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU024874.D
Acq: 25 Jun 2018 14:55

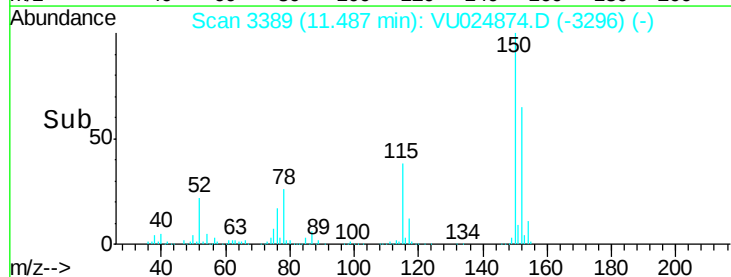
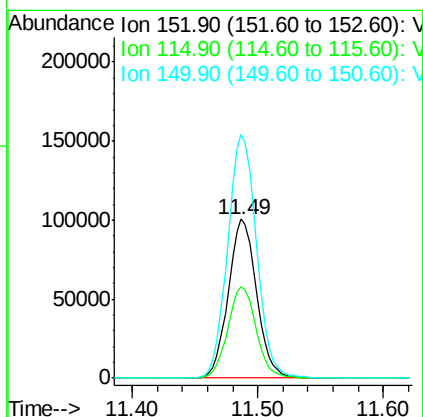
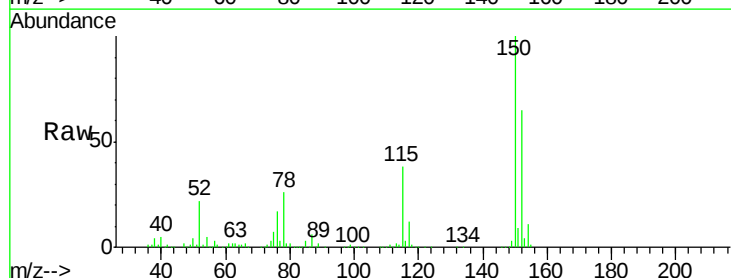
Instrument :
MSVOA_U
ClientSampleId :

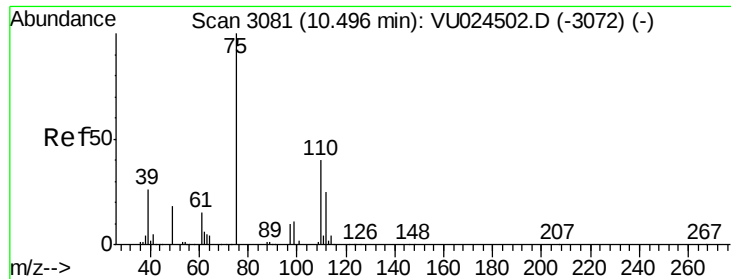
Tot Ion:112 Resp: 53292
Ion Ratio Lower Upper
112 100
114 31.9 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU024874.D
Acq: 25 Jun 2018 14:55

Tgt Ion:152 Resp: 157304
Ion Ratio Lower Upper
152 100
115 57.7 43.0 129.0
150 156.3 0.0 354.0

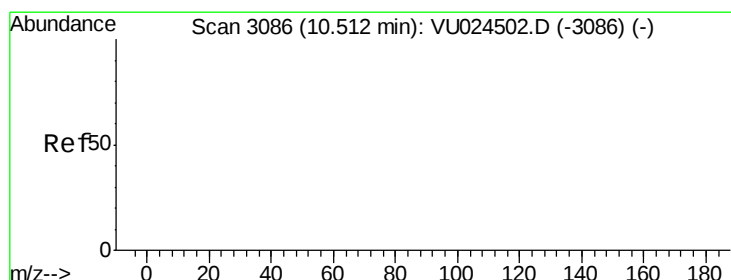
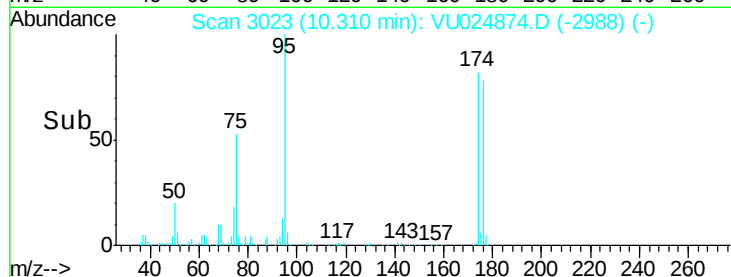
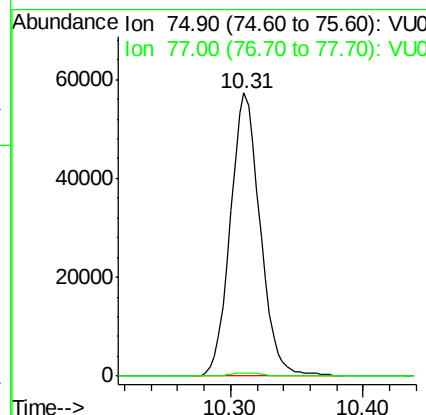
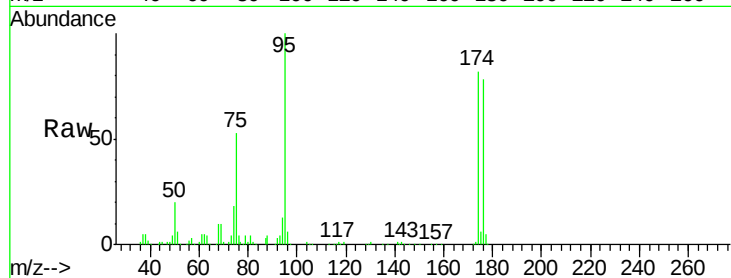




#76
 1,2,3-Trichloropropane
 Concen: 25.83 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024874.D
 Acq: 25 Jun 2018 14:55

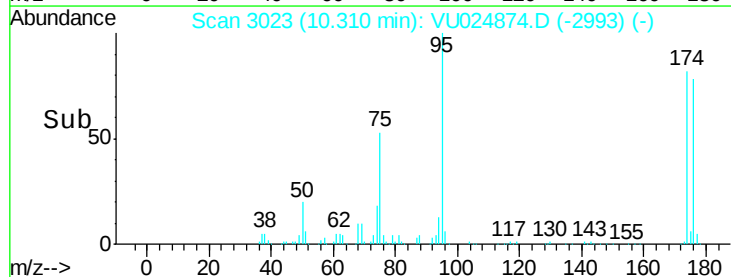
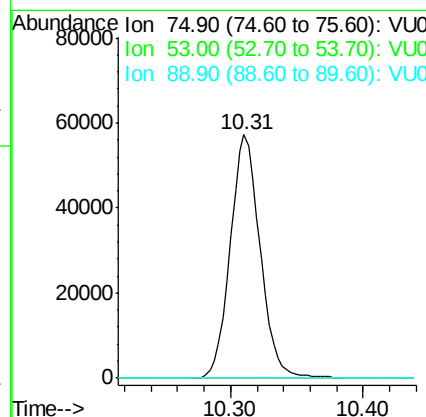
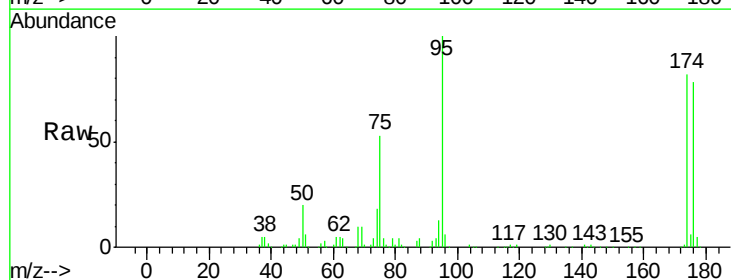
Instrument :
 MSVOA_U
 ClientSampleId :

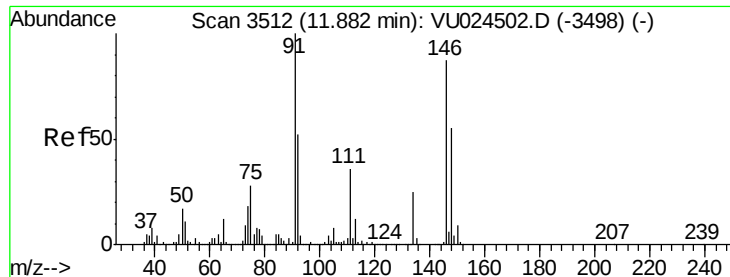
Tot Ion: 75 Resp: 89445
 Ion Ratio Lower Upper
 75 100
 77 1.2 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.77 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024874.D
 Acq: 25 Jun 2018 14:55

Tgt Ion: 75 Resp: 89445
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0

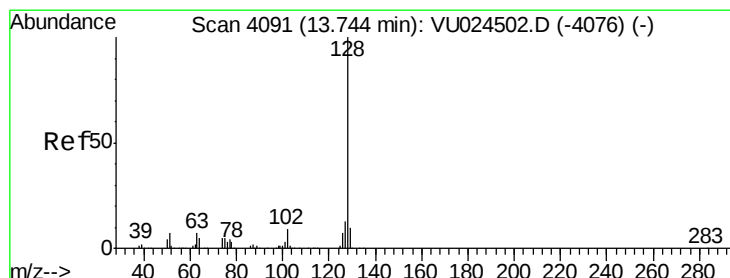
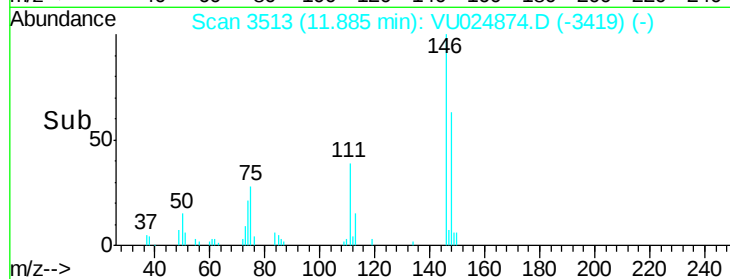
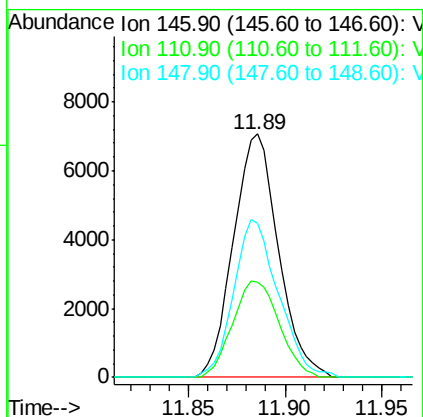
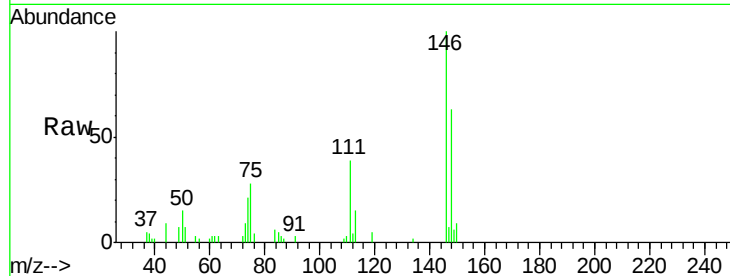




#91
 1,2-Dichlorobenzene
 Concen: 2.02 ug/l
 RT: 11.89 min Scan# 3513
 Delta R.T. 0.00 min
 Lab File: VU024874.D
 Acq: 25 Jun 2018 14:55

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:146 Resp: 11443
 Ion Ratio Lower Upper
 146 100
 111 40.9 20.5 61.6
 148 64.3 31.9 95.7



#95
 Naphthalene
 Concen: 0.70 ug/l
 RT: 13.77 min Scan# 4098
 Delta R.T. 0.02 min
 Lab File: VU024874.D
 Acq: 25 Jun 2018 14:55

Tgt Ion:128 Resp: 289
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.6 16.0#
 129 0.0 8.6 12.8#

