

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\
 Data File : VU024856.D
 Acq On : 23 Jun 2018 01:05
 Operator : MD/SY
 Sample : J3662-08
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 23 02:18:55 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	206561	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	312964	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	291125	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	154367	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	151583	44.95	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.90%	
35) Dibromofluoromethane	4.89	113	122028	46.98	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.96%	
50) Toluene-d8	7.57	98	453034	47.82	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.64%	
62) 4-Bromofluorobenzene	10.31	95	165770	44.07	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.14%	

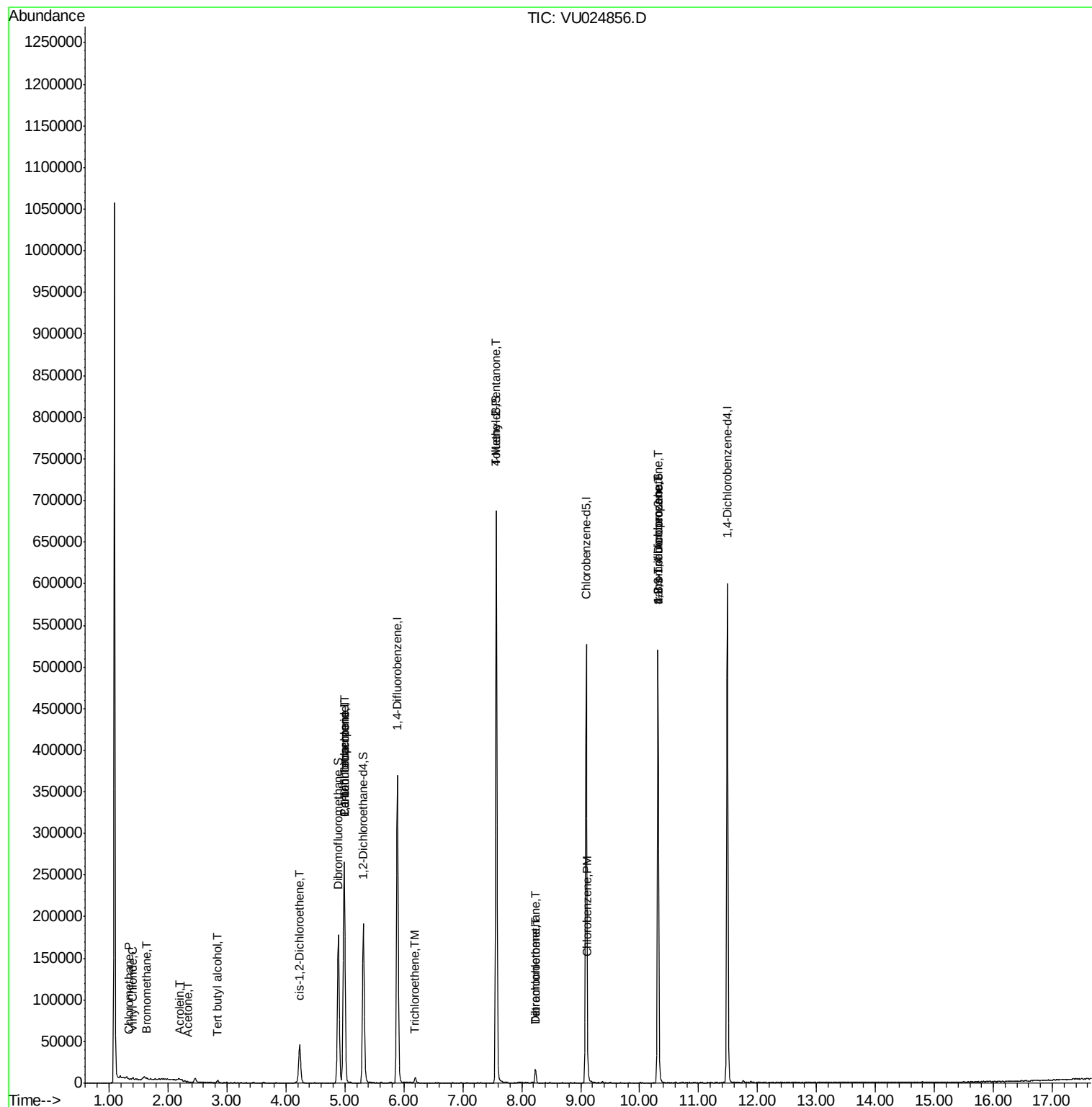
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	620	0.23	ug/l	92
4) Vinyl Chloride	1.40	62	1764	0.65	ug/l #	85
5) Bromomethane	1.64	94	332	0.25	ug/l	93
6) Chloroethane	1.72	64	42	Below Cal	#	43
11) Tert butyl alcohol	2.84	59	1560	1.90	ug/l #	75
13) Acrolein	2.20	56	146	0.34	ug/l #	13
16) Acetone	2.33	43	675	0.37	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	25575	8.59	ug/l	89
31) Cyclohexane	4.99	56	4433	Below Cal	#	21
36) 1,1-Dichloropropene	4.99	75	15354	4.18	ug/l #	51
38) Carbon Tetrachloride	4.99	117	19125	4.73	ug/l #	16
44) Trichloroethene	6.19	130	2415	0.81	ug/l	93
51) 4-Methyl-2-Pentanone	7.57	43	2187	0.50	ug/l #	1
60) Dibromochloromethane	8.23	129	3691	1.08	ug/l #	11
64) Tetrachloroethene	8.23	164	3774	1.36	ug/l	94
65) Chlorobenzene	9.12	112	2292	0.31	ug/l	99
76) 1,2,3-Trichloropropane	10.31	75	87591	25.77	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	87591	59.65	ug/l #	100

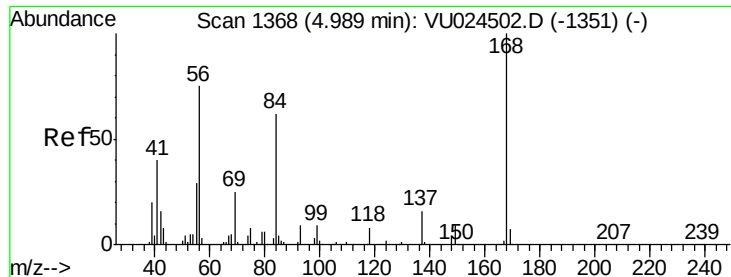
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024856.D

Acq: 23 Jun 2018 01:05

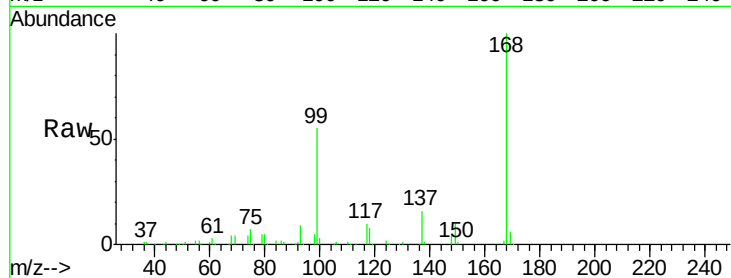
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 206561

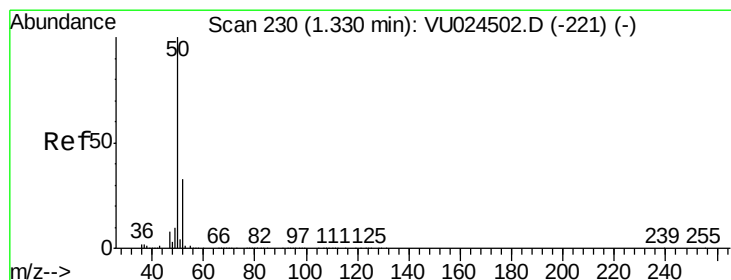
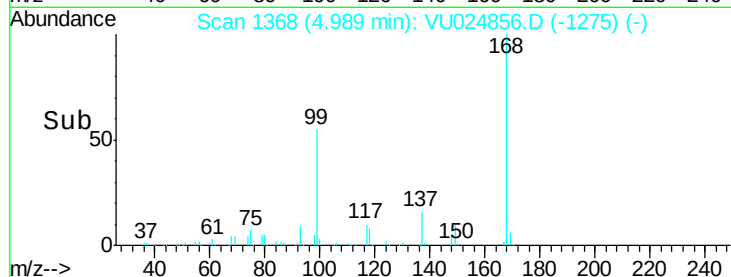
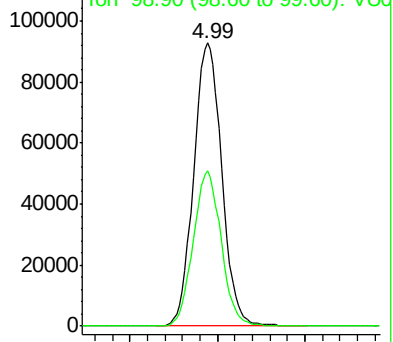
Ion Ratio Lower Upper

168 100

99 55.0 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024856.D (-1275) (-)



#3

Chloromethane

Concen: 0.23 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024856.D

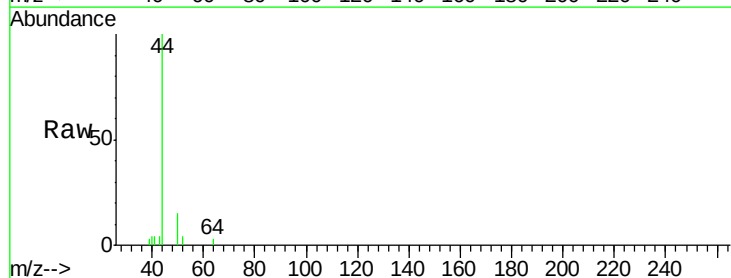
Acq: 23 Jun 2018 01:05

Tgt Ion: 50 Resp: 620

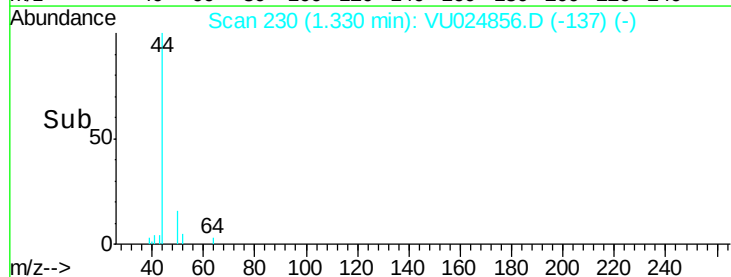
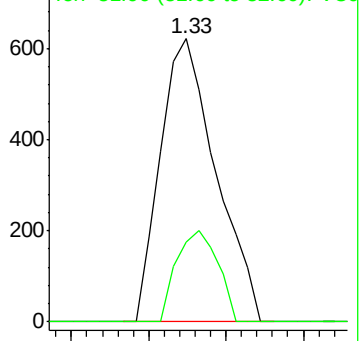
Ion Ratio Lower Upper

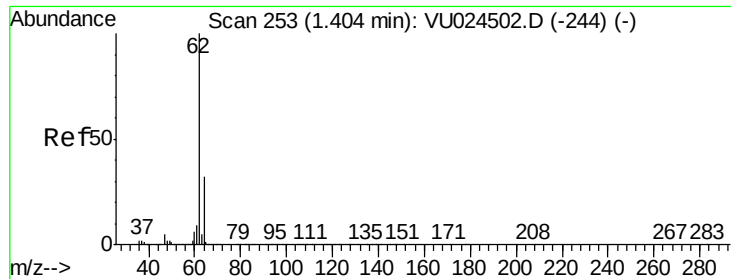
50 100

52 28.3 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024856.D (-137) (-)





#4

Vinyl Chloride

Concen: 0.65 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Instrument :

MSVOA_U

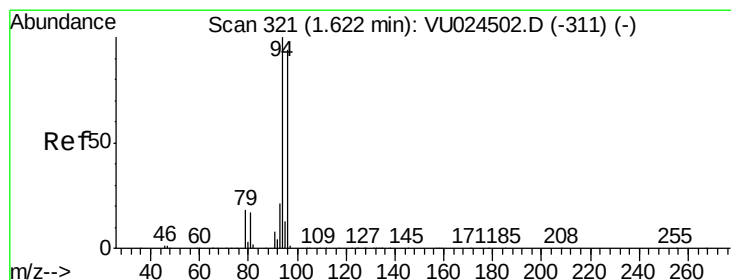
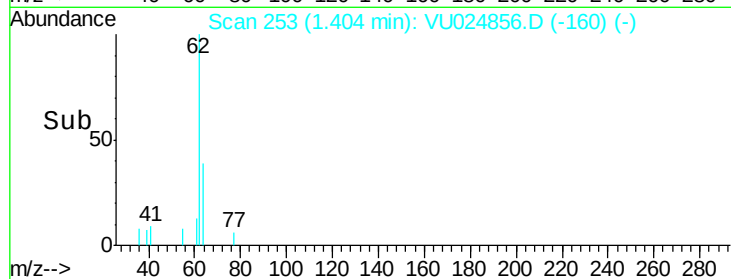
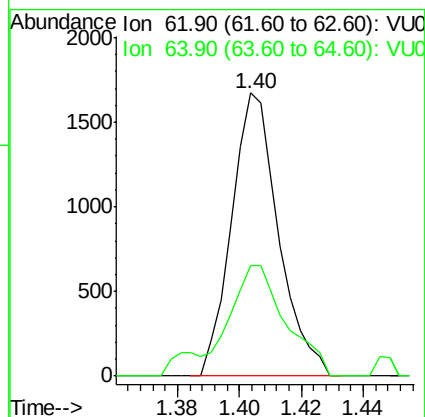
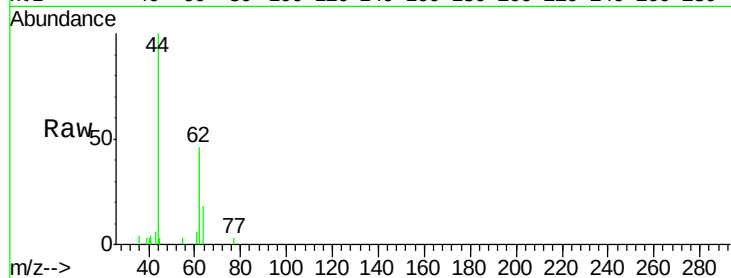
ClientSampleId :

Tot Ion: 62 Resp: 1764

Ion Ratio Lower Upper

62 100

64 39.0 24.8 37.2#



#5

Bromomethane

Concen: 0.25 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024856.D

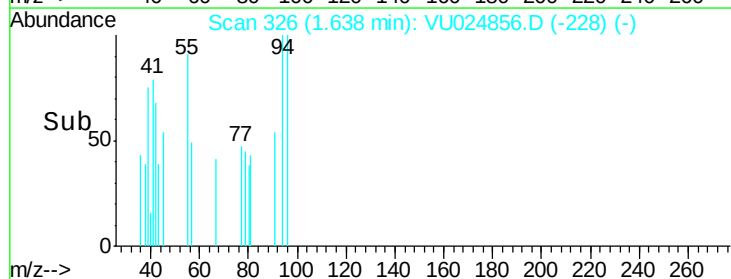
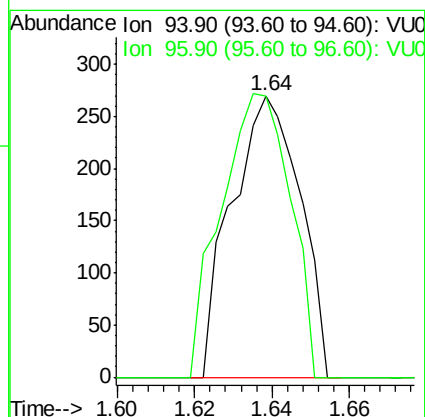
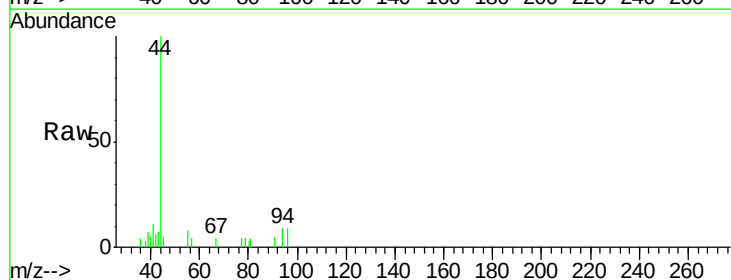
Acq: 23 Jun 2018 01:05

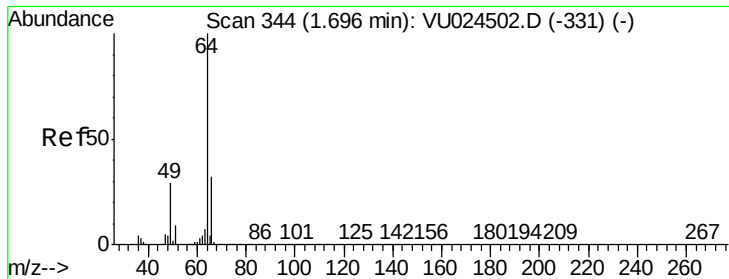
Tgt Ion: 94 Resp: 332

Ion Ratio Lower Upper

94 100

96 100.0 74.5 111.7





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 351

Delta R.T. 0.02 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Instrument :

MSVOA_U

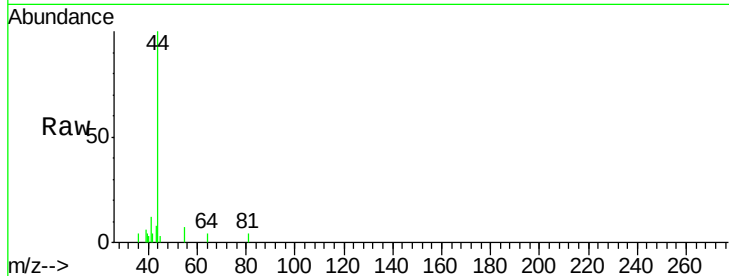
ClientSampled :

Tot Ion: 64 Resp: 42

Ion Ratio Lower Upper

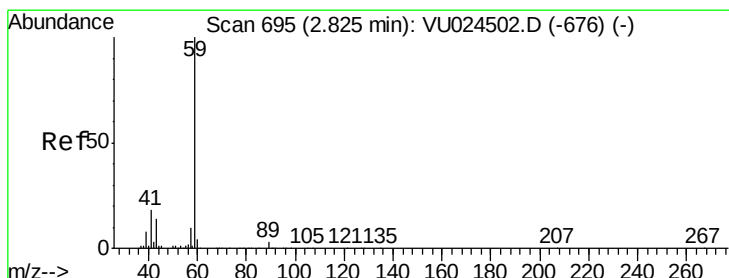
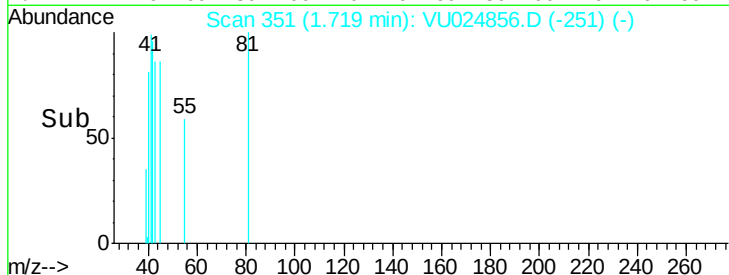
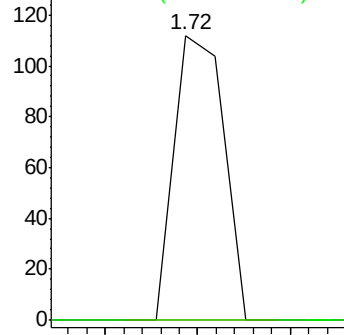
64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



#11

Tert butyl alcohol

Concen: 1.90 ug/l

RT: 2.84 min Scan# 699

Delta R.T. 0.01 min

Lab File: VU024856.D

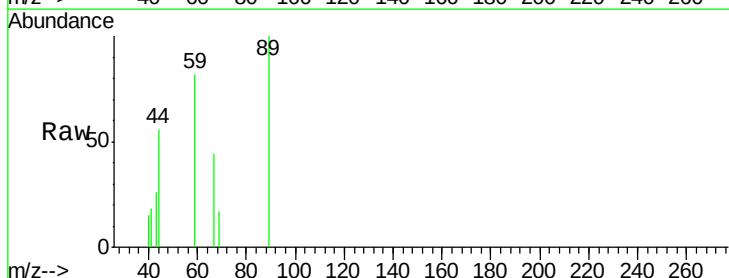
Acq: 23 Jun 2018 01:05

Tgt Ion: 59 Resp: 1560

Ion Ratio Lower Upper

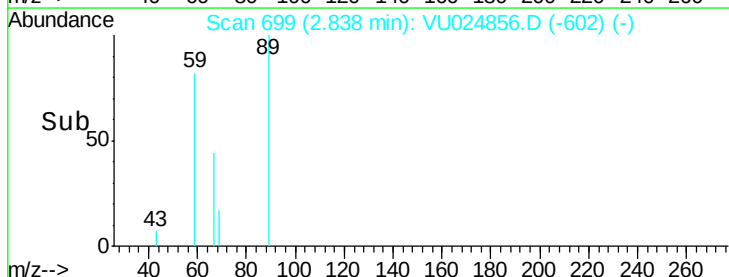
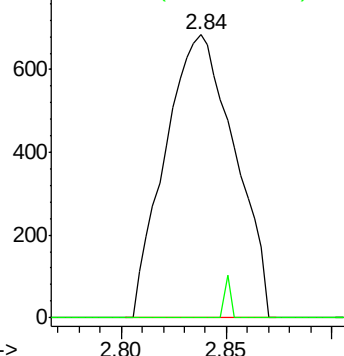
59 100

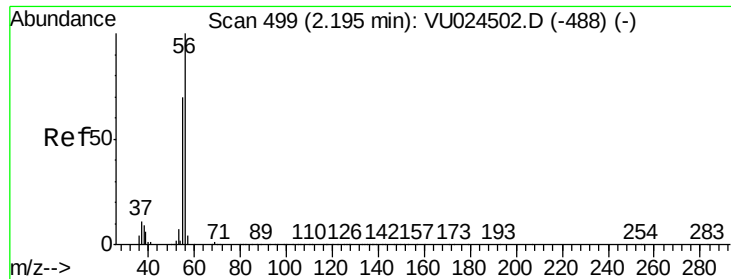
57 1.3 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.34 ug/l

RT: 2.20 min Scan# 502

Delta R.T. 0.01 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Instrument :

MSVOA_U

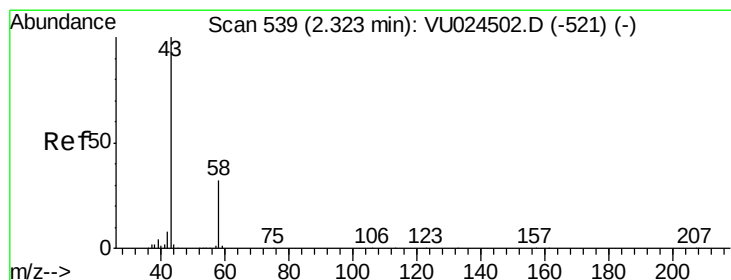
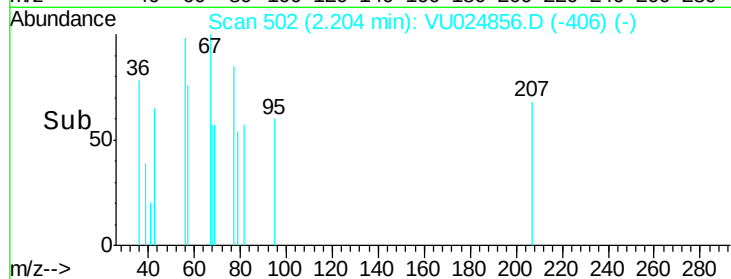
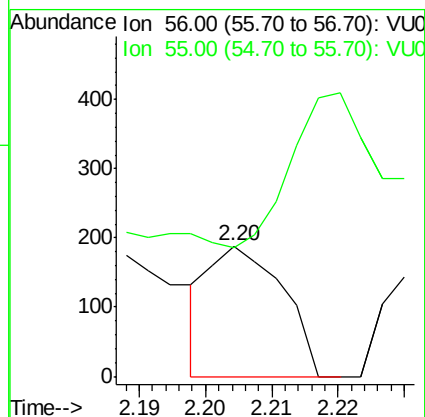
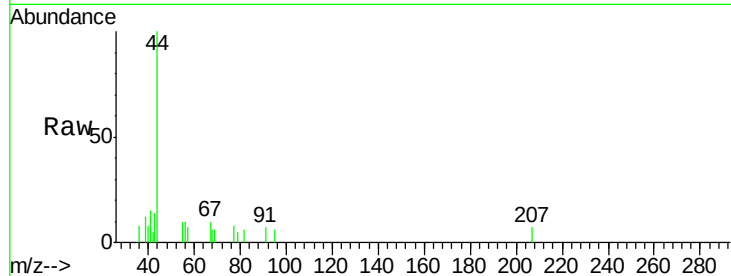
ClientSampled :

Tot Ion: 56 Resp: 146

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#16

Acetone

Concen: 0.37 ug/l

RT: 2.33 min Scan# 541

Delta R.T. 0.01 min

Lab File: VU024856.D

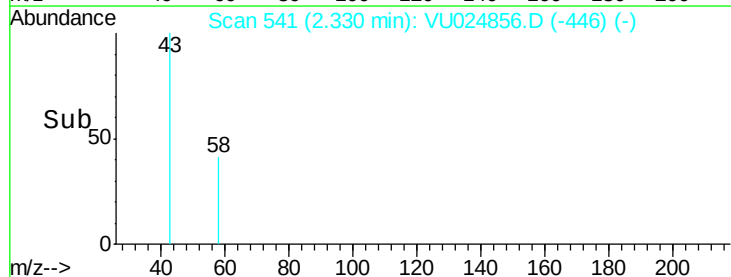
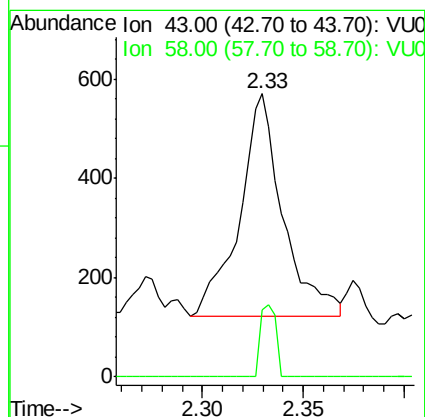
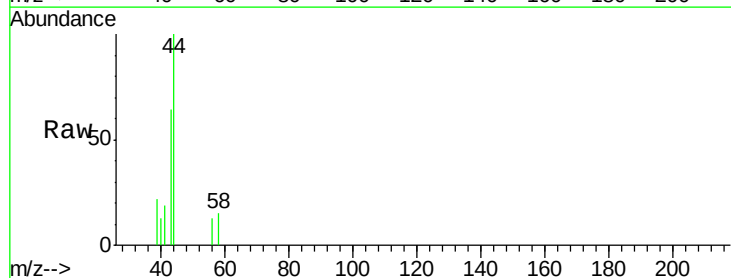
Acq: 23 Jun 2018 01:05

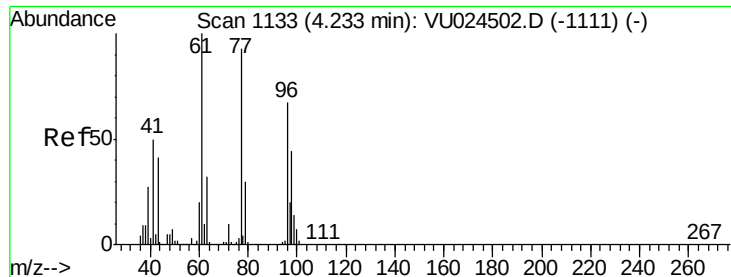
Tgt Ion: 43 Resp: 675

Ion Ratio Lower Upper

43 100

58 30.4 24.4 36.6

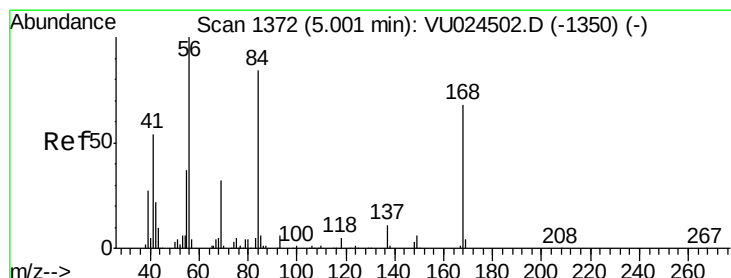
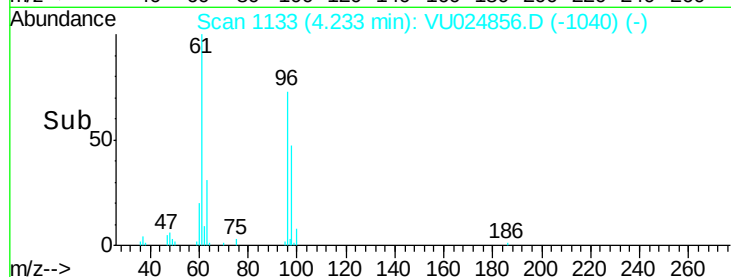
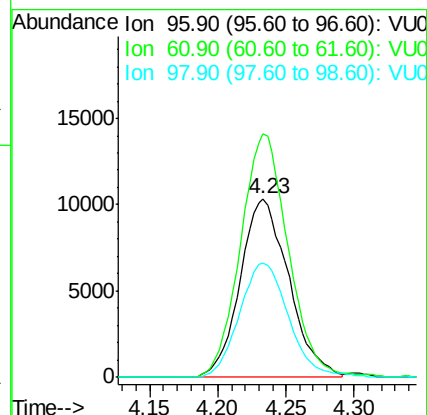
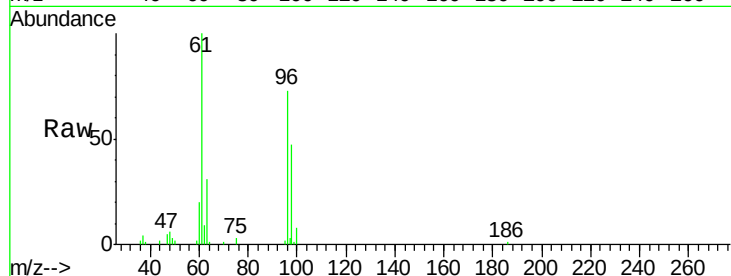




#27
 cis-1,2-Dichloroethene
 Concen: 8.59 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. 0.00 min
 Lab File: VU024856.D
 Acq: 23 Jun 2018 01:05

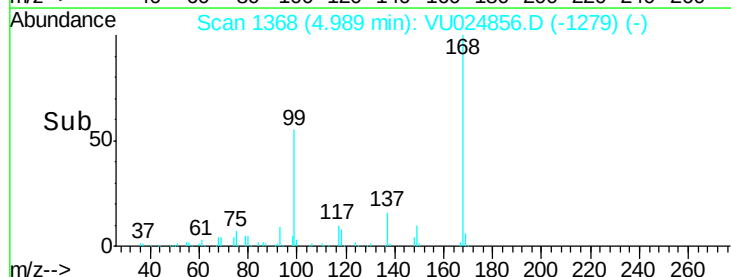
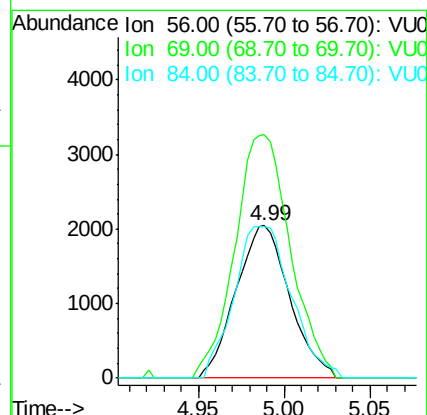
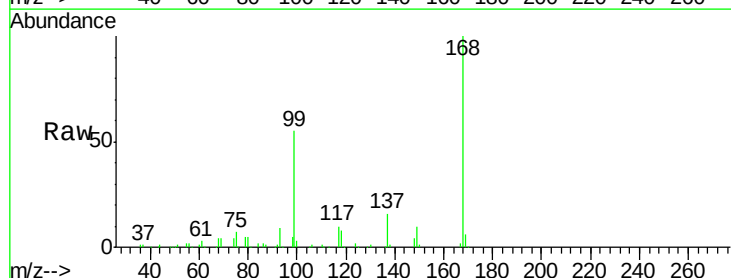
Instrument :
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 ClientSampleId :

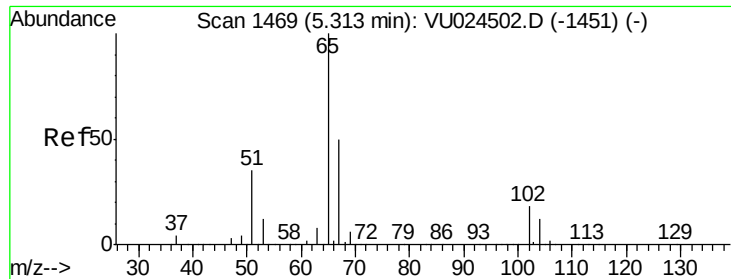
Tot Ion	Ratio	Lower	Upper
96	100		
61	134.3	0.0	306.6
98	64.7	0.0	128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VU024856.D
 Acq: 23 Jun 2018 01:05

Tgt Ion	Ratio	Lower	Upper
56	100		
69	159.6	24.8	37.2#
84	99.1	65.2	97.8#

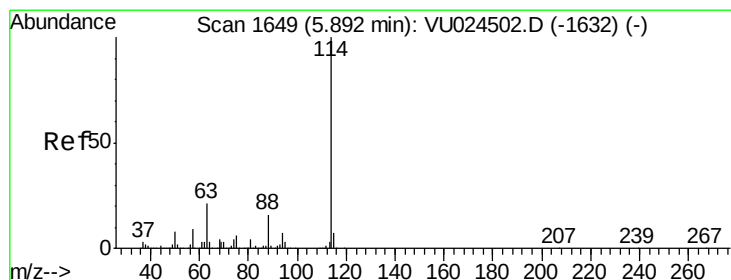
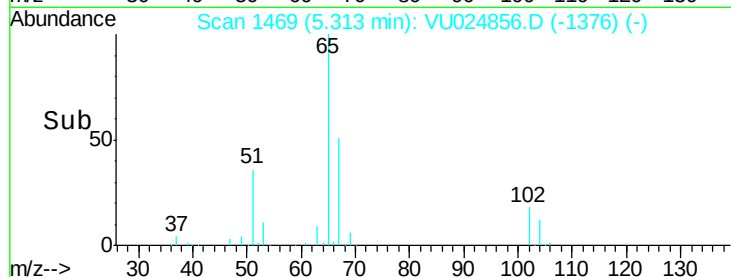
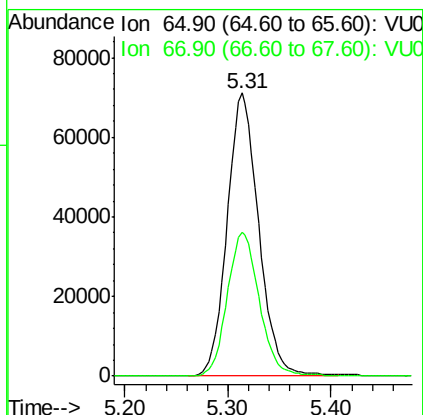
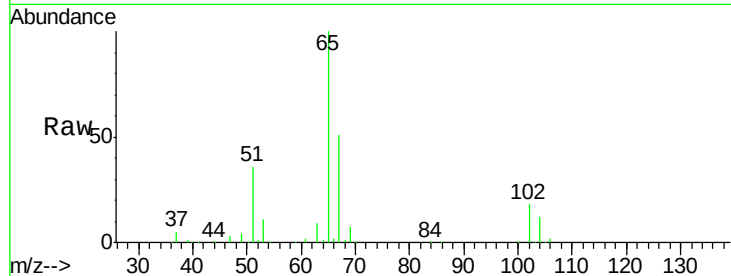




#33
 1,2-Dichloroethane-d4
 Concen: 44.95 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024856.D
 Acq: 23 Jun 2018 01:05

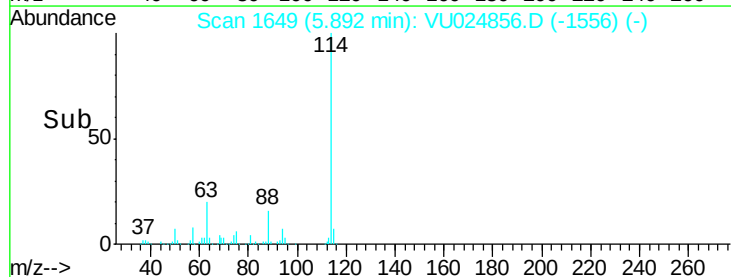
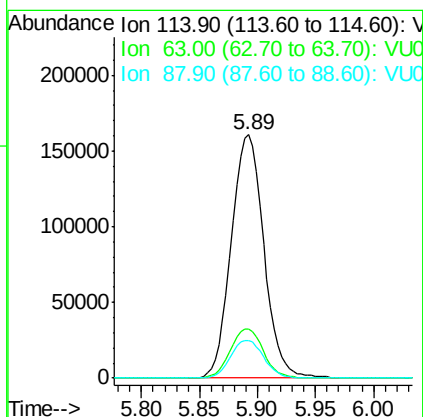
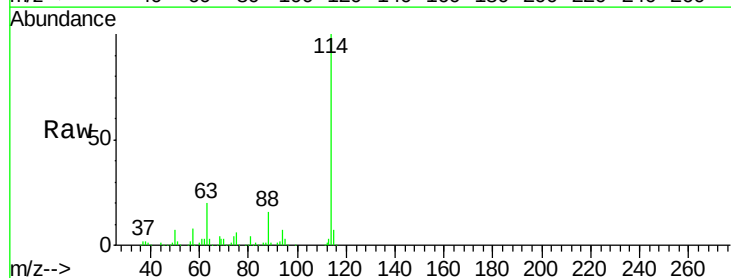
Instrument :
 MSVOA_U
 ClientSampleId :

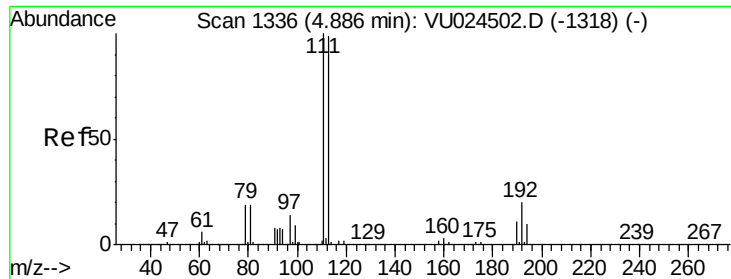
Tot Ion: 65 Resp: 151583
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024856.D
 Acq: 23 Jun 2018 01:05

Tgt Ion: 114 Resp: 312964
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 45.4
 88 15.5 0.0 31.0





#35

Dibromofluoromethane

Concen: 46.98 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

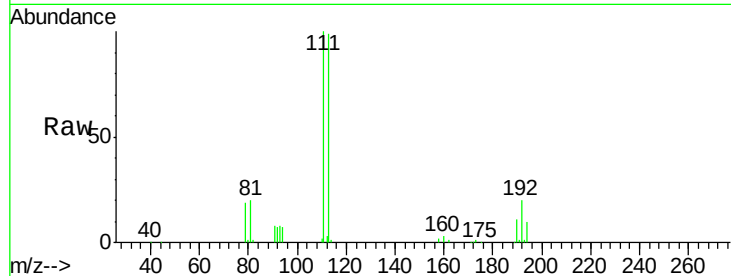
Tot Ion:113 Resp: 122028

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

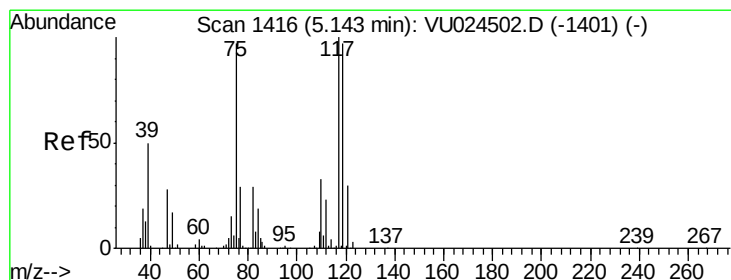
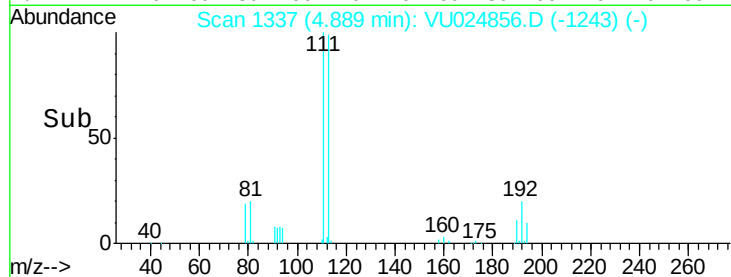
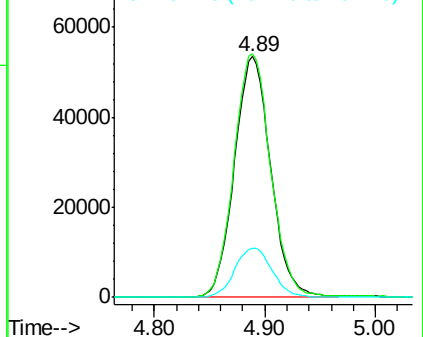
192 21.1 16.2 24.4



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: 4.18 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

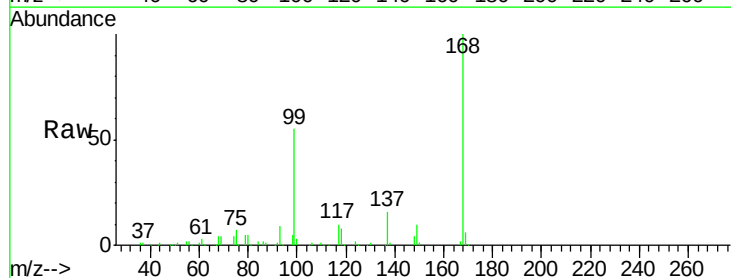
Tgt Ion: 75 Resp: 15354

Ion Ratio Lower Upper

75 100

110 8.9 17.0 50.9#

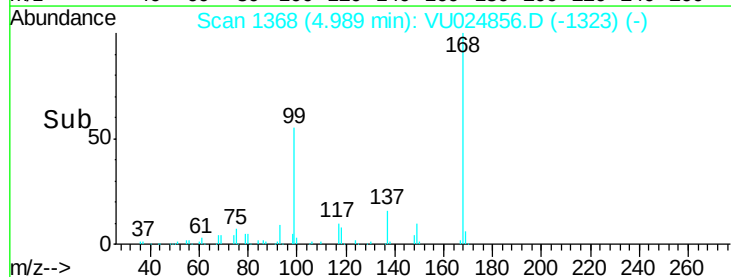
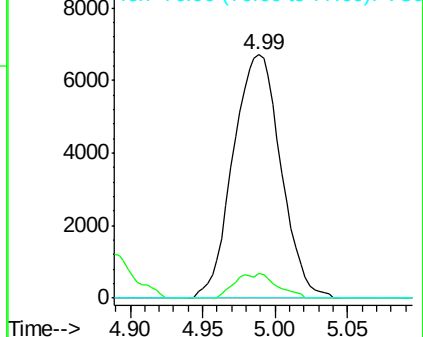
77 0.0 24.2 36.4#

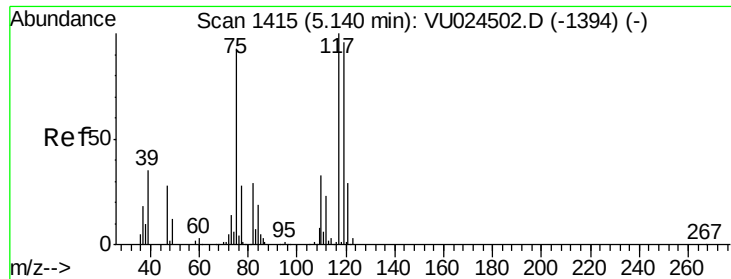


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.73 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Instrument :

MSVOA_U

ClientSampleId :

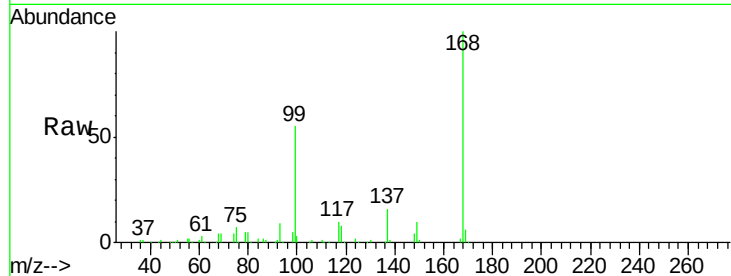
Tot Ion:117 Resp: 19125

Ion Ratio Lower Upper

117 100

119 4.8 76.1 114.1#

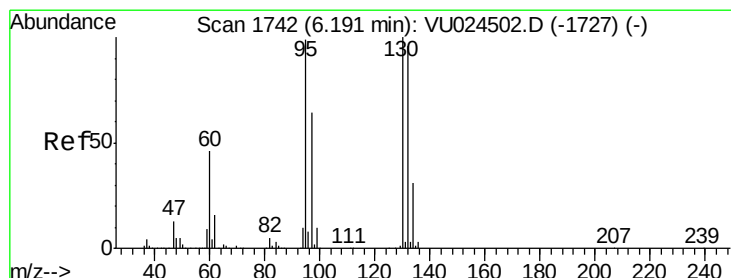
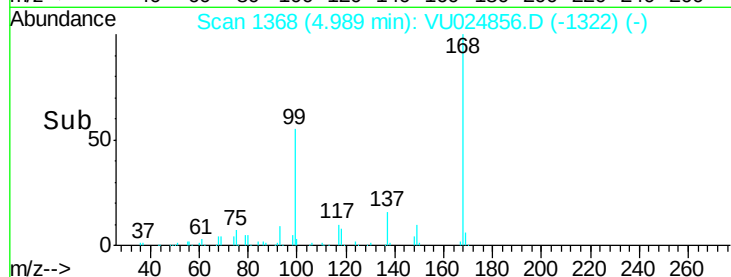
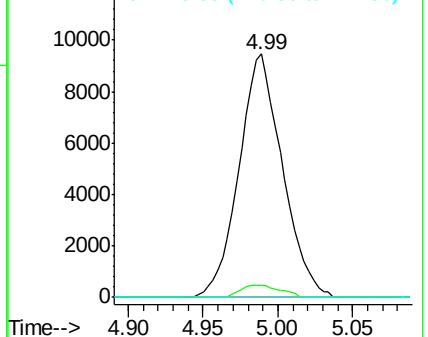
121 0.0 23.7 35.5#



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: 0.81 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU024856.D

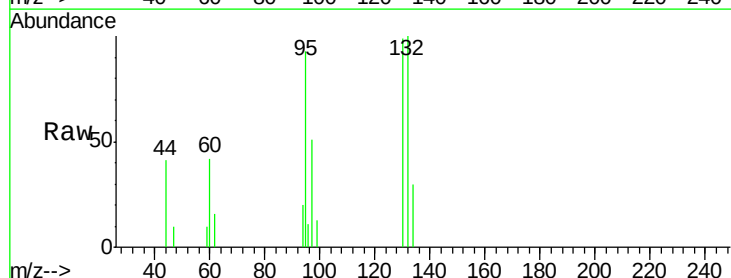
Acq: 23 Jun 2018 01:05

Tgt Ion:130 Resp: 2415

Ion Ratio Lower Upper

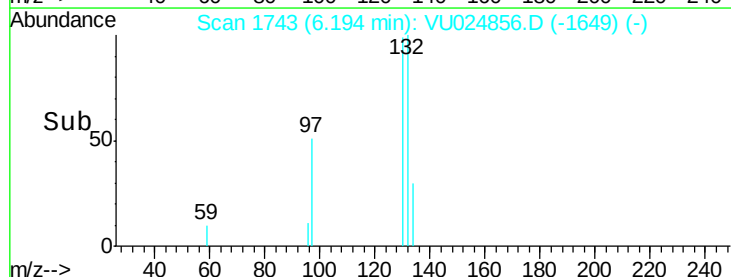
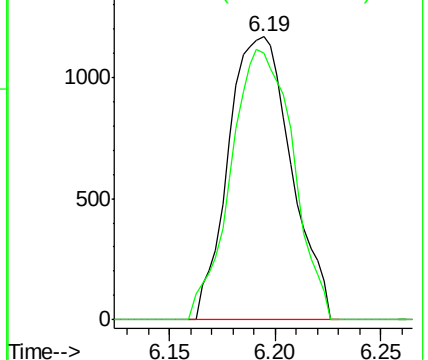
130 100

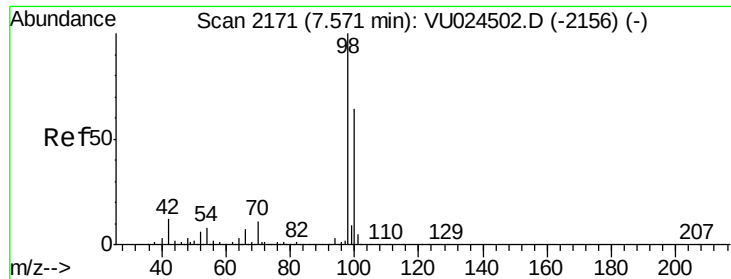
95 94.3 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 47.82 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Instrument :

MSVOA_U

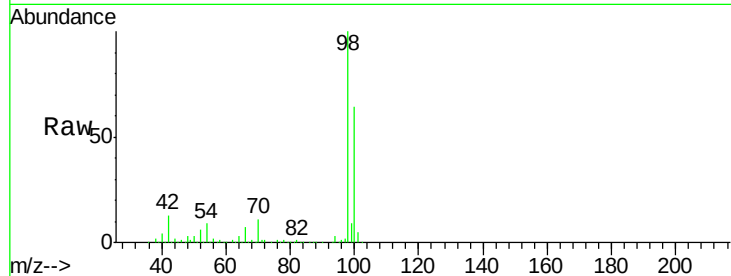
ClientSampled :

Tot Ion: 98 Resp: 453034

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)

Ion 100.00 (99.70 to 100.70): VU024502.D (-2156) (-)

7.57

250000

200000

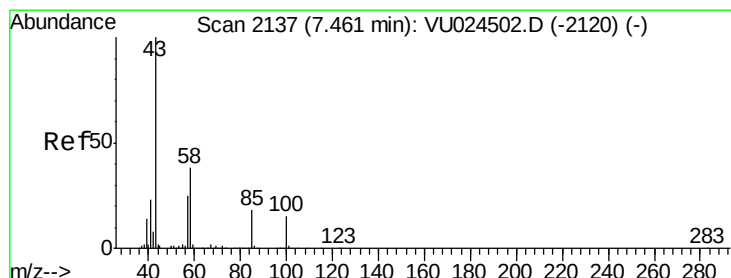
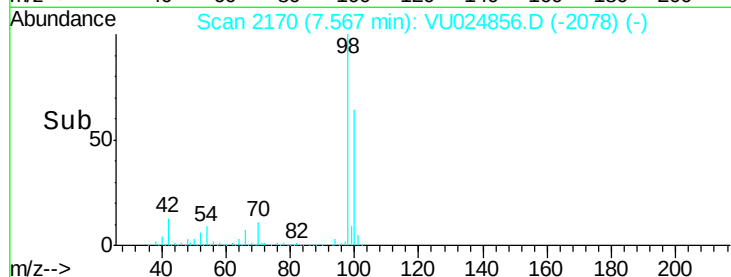
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.50 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.11 min

Lab File: VU024856.D

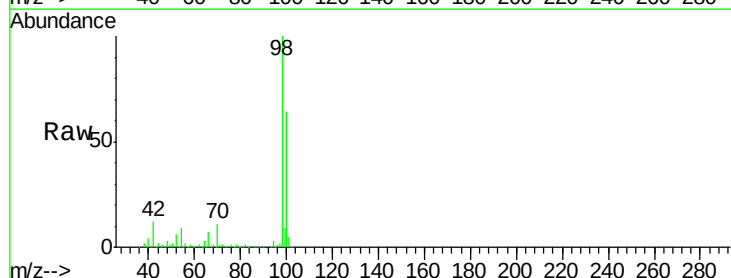
Acq: 23 Jun 2018 01:05

Tgt Ion: 43 Resp: 2187

Ion Ratio Lower Upper

43 100

58 172.5 30.0 45.0#



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-2120) (-)

Ion 58.00 (57.70 to 58.70): VU024502.D (-2120) (-)

2500

2000

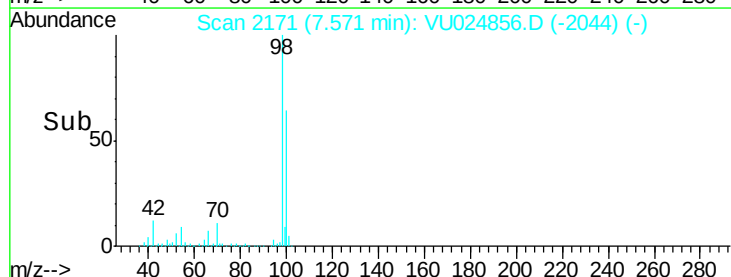
1500

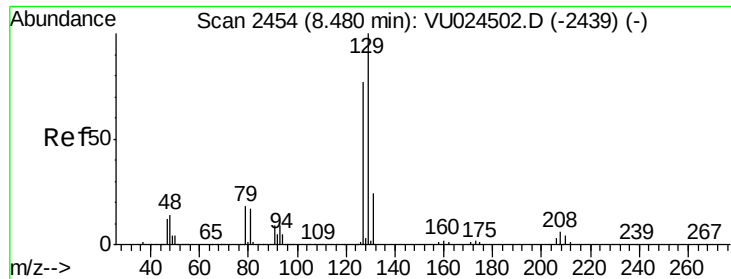
1000

500

0

Time-->





#60

Dibromochloromethane

Concen: 1.08 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Instrument :

MSVOA_U

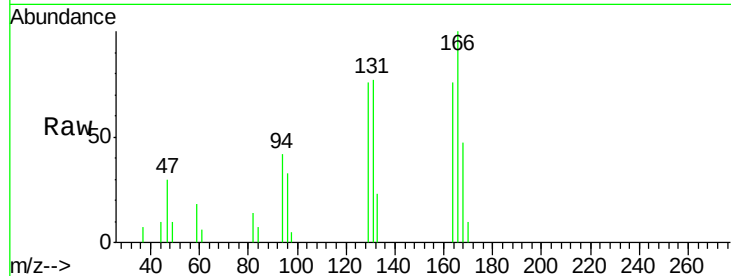
ClientSampleId :

Tot Ion:129 Resp: 3691

Ion Ratio Lower Upper

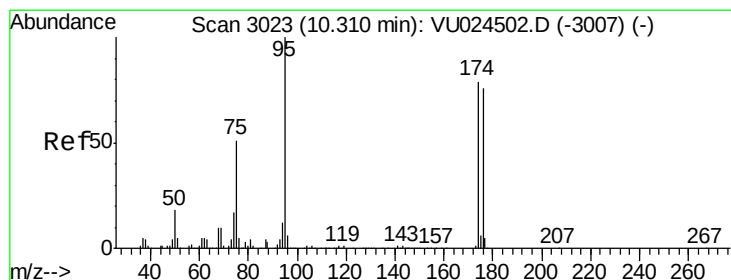
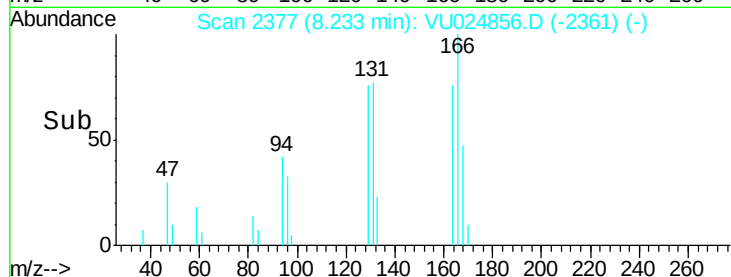
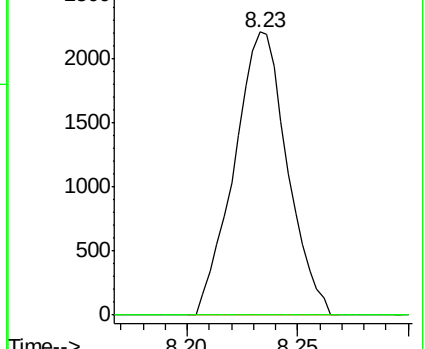
129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.07 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

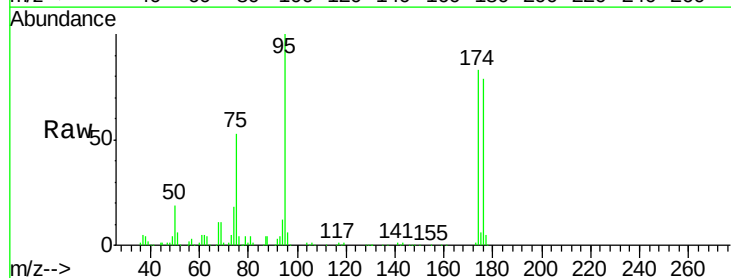
Tgt Ion: 95 Resp: 165770

Ion Ratio Lower Upper

95 100

174 85.4 0.0 165.8

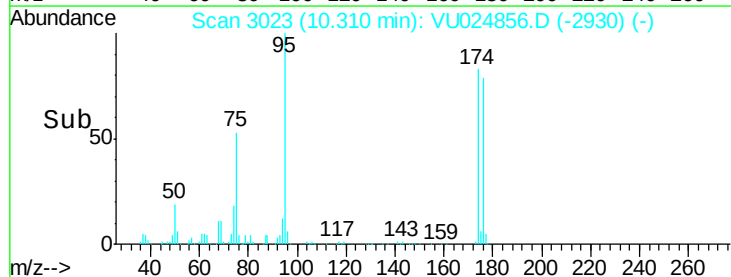
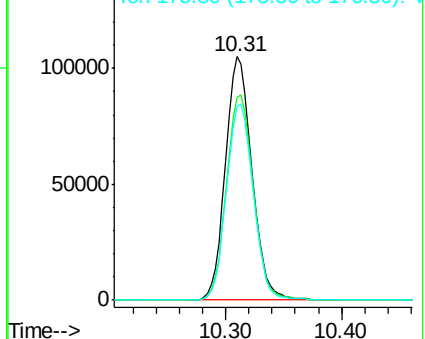
176 81.5 0.0 159.4

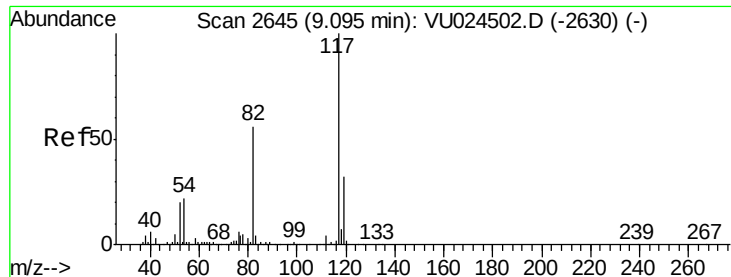


Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

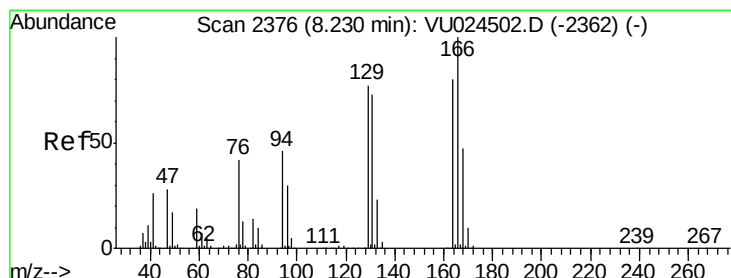
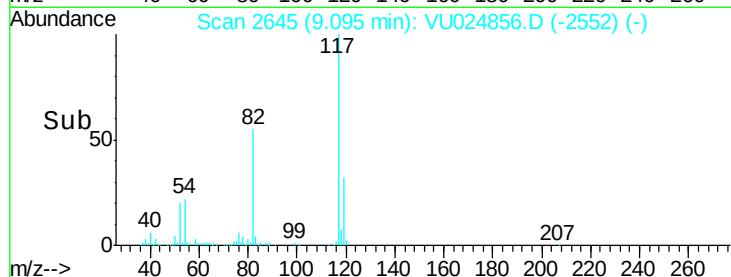
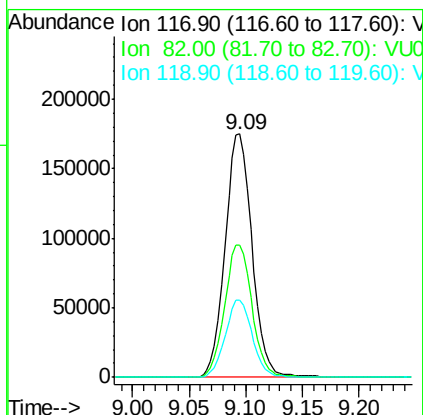
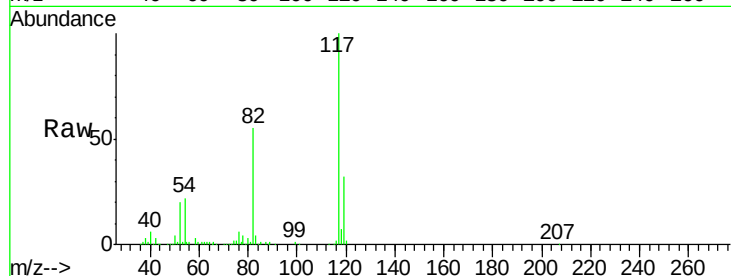




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024856.D
Acq: 23 Jun 2018 01:05

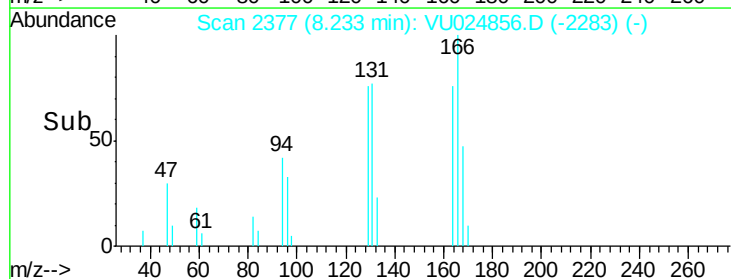
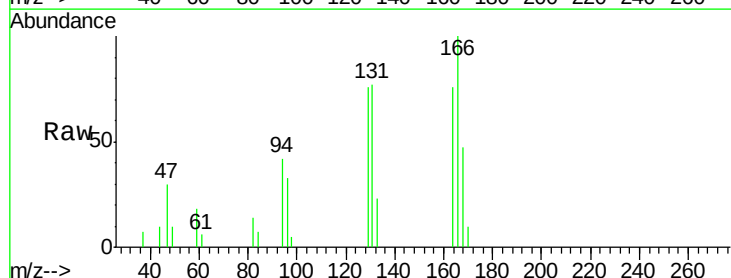
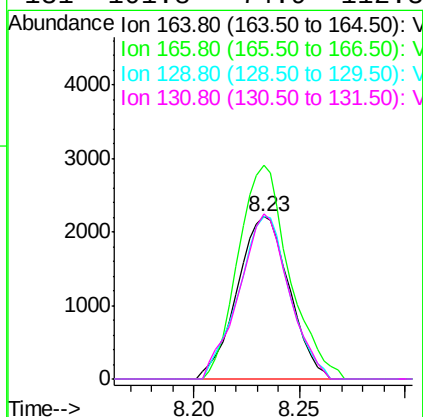
Instrument :
MSVOA_U
ClientSampleId :

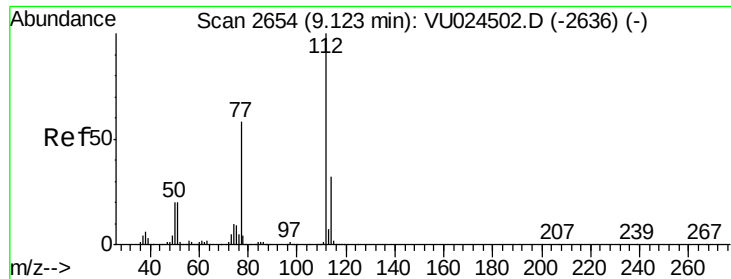
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.6	44.3	66.5
119	31.9	25.4	38.2



#64
Tetrachloroethene
Concen: 1.36 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU024856.D
Acq: 23 Jun 2018 01:05

Tgt Ion	Ratio	Lower	Upper
164	100		
166	131.8	101.7	152.5
129	100.5	76.9	115.3
131	101.8	74.9	112.3

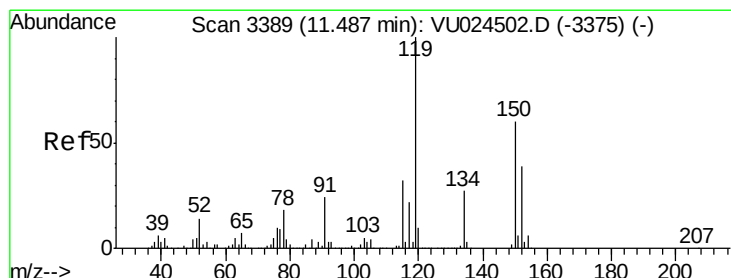
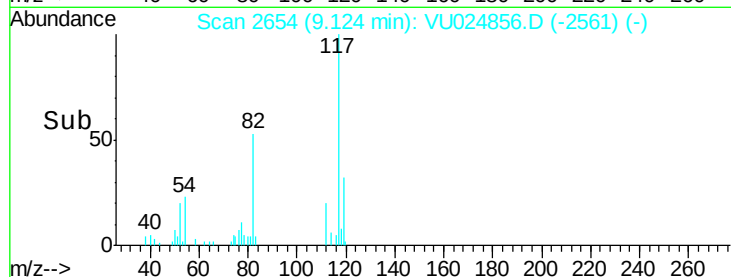
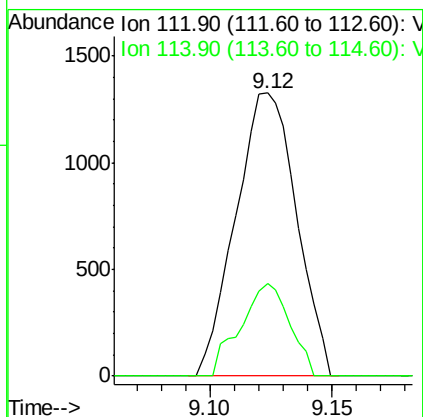
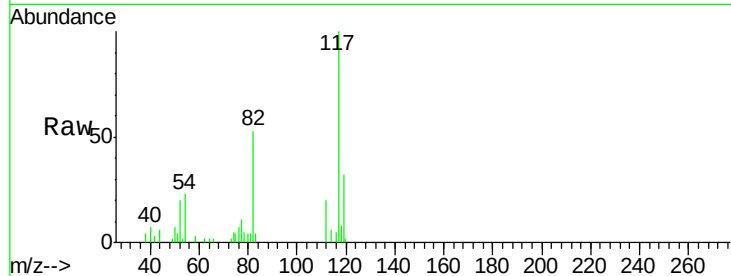




#65
Chlorobenzene
Concen: 0.31 ug/l
RT: 9.12 min Scan# 2654
Delta R.T. 0.00 min
Lab File: VU024856.D
Acq: 23 Jun 2018 01:05

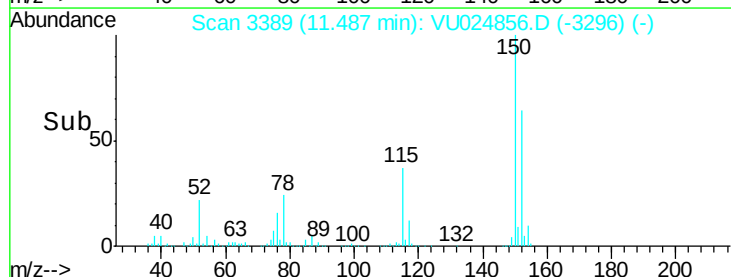
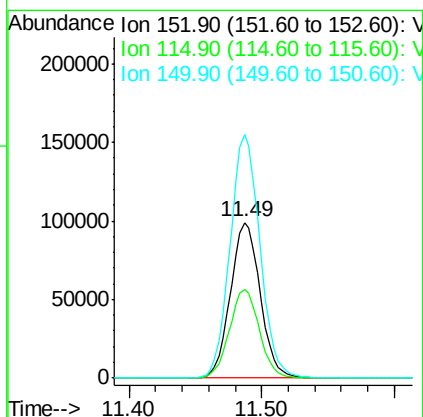
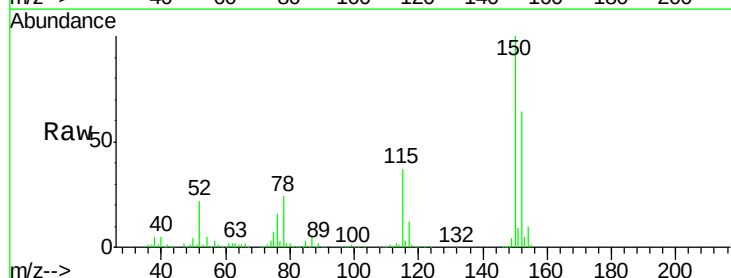
Instrument :
MSVOA_U
ClientSampled :

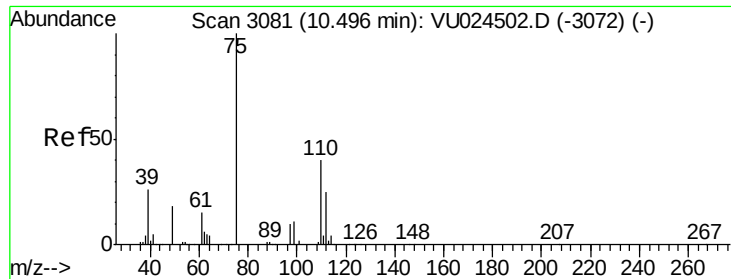
Tot Ion:112 Resp: 2292
Ion Ratio Lower Upper
112 100
114 32.8 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU024856.D
Acq: 23 Jun 2018 01:05

Tgt Ion:152 Resp: 154367
Ion Ratio Lower Upper
152 100
115 57.2 43.0 129.0
150 157.5 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 25.77 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Instrument :

MSVOA_U

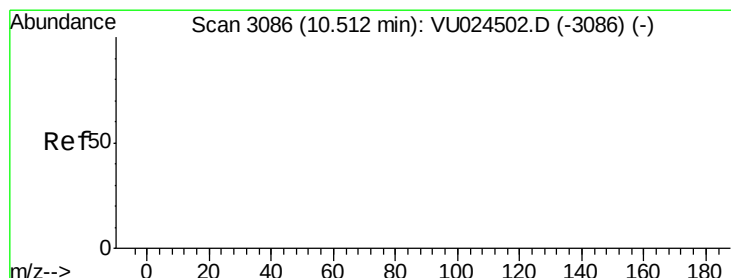
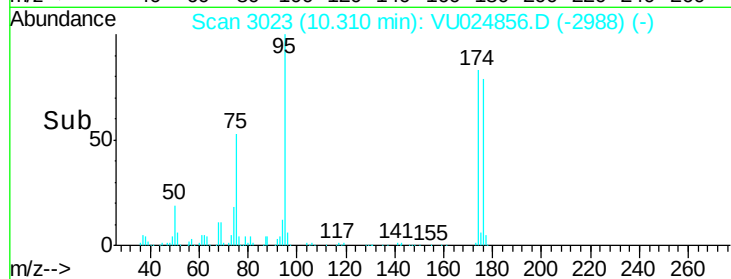
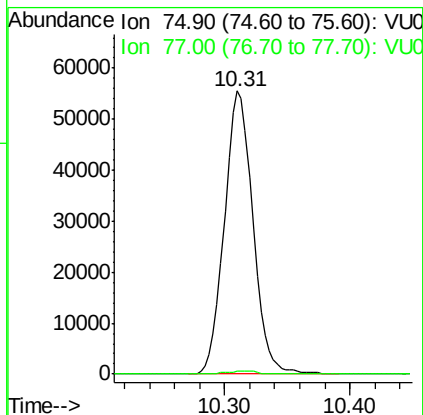
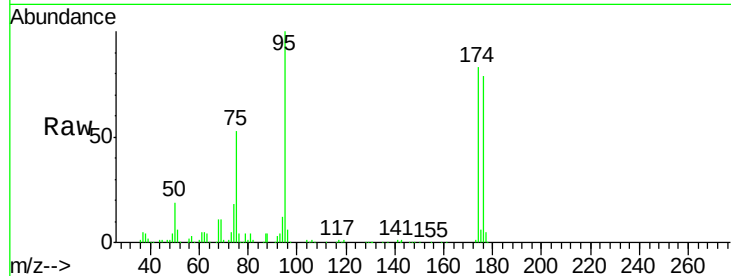
ClientSampled :

Tot Ion: 75 Resp: 87591

Ion Ratio Lower Upper

75 100

77 1.1 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.65 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024856.D

Acq: 23 Jun 2018 01:05

Tgt Ion: 75 Resp: 87591

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

