

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070318\
 Data File : VU025199.D
 Acq On : 03 Jul 2018 19:15
 Operator : MD/SY
 Sample : J3840-04
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 04 05:00:36 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

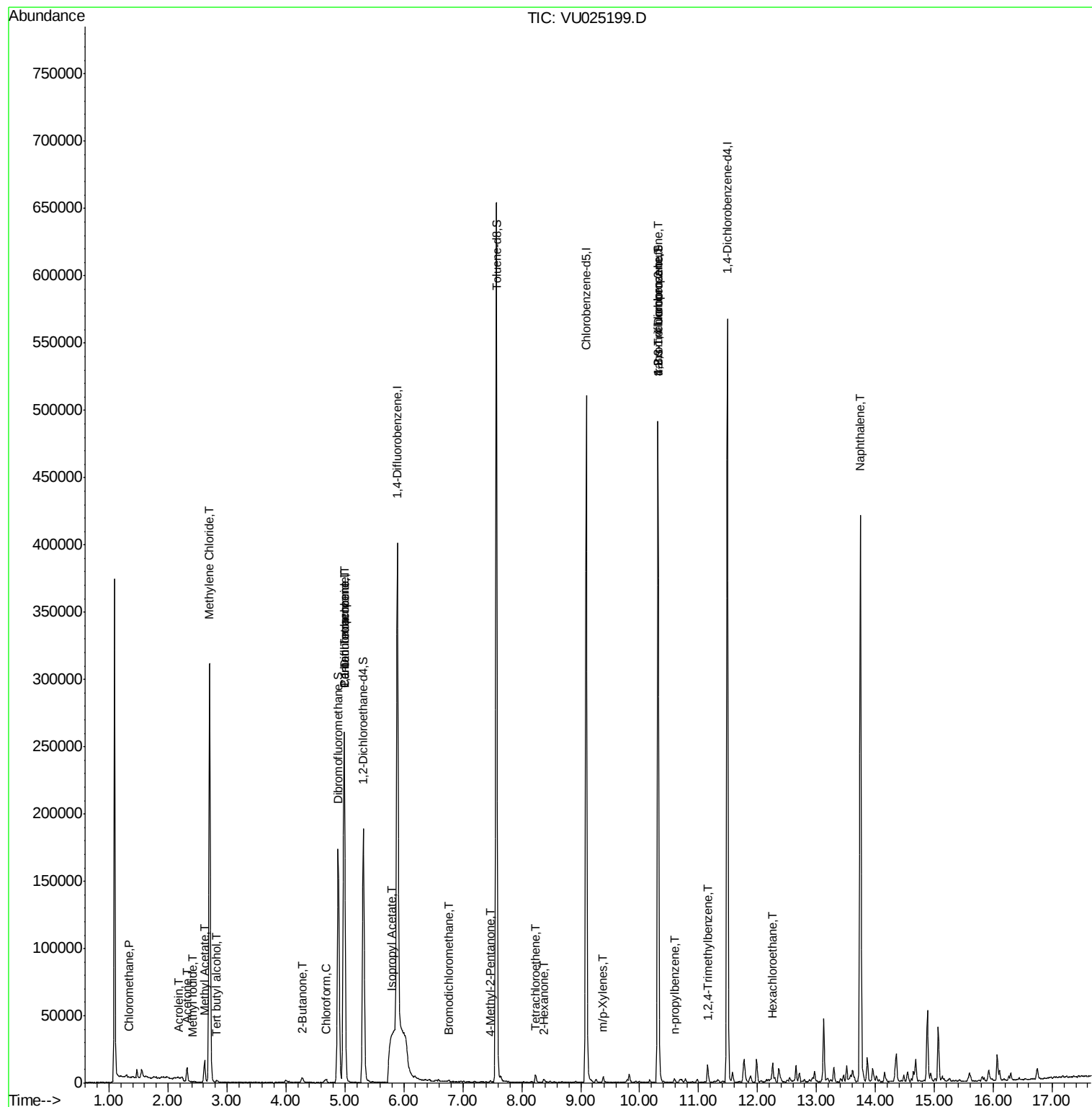
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	200092	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	303117	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	278852	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	147526	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	153222	46.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.82%	
35) Dibromofluoromethane	4.89	113	117879	46.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.72%	
50) Toluene-d8	7.57	98	433791	47.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.54%	
62) 4-Bromofluorobenzene	10.31	95	161117	44.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.44%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	568	0.222	ug/l	99
6) Chloroethane	1.69	64	64	Below Cal	#	43
8) Diethyl Ether	2.10	74	19	Below Cal	#	1
10) Methyl Iodide	2.42	142	104	5.333	ug/l #	40
11) Tert butyl alcohol	2.82	59	1503	1.892	ug/l #	84
13) Acrolein	2.18	56	86	0.206	ug/l #	76
16) Acetone	2.32	43	10384	5.916	ug/l	96
18) Methyl Acetate	2.62	43	19529	5.190	ug/l	99
20) Methylene Chloride	2.71	84	138126	50.157	ug/l	97
25) 2-Butanone	4.27	43	6641	2.817	ug/l	95
30) Chloroform	4.69	83	2498	0.512	ug/l	95
31) Cyclohexane	4.99	56	4306	Below Cal	#	27
36) 1,1-Dichloropropene	4.99	75	14856	4.171	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19585	5.000	ug/l #	15
43) Isopropyl Acetate	5.78	43	32020	4.772	ug/l #	62
47) Bromodichloromethane	6.76	83	1059	0.280	ug/l #	89
51) 4-Methyl-2-Pentanone	7.47	43	1566	0.371	ug/l #	74
59) 2-Hexanone	8.37	43	2212	0.643	ug/l	90
64) Tetrachloroethene	8.23	164	1086	0.410	ug/l	85
68) m/p-Xylenes	9.38	106	1464	0.305	ug/l	94
76) 1,2,3-Trichloropropane	10.31	75	83016	25.559	ug/l #	35
78) n-propylbenzene	10.60	91	2763	0.207	ug/l	95
81) trans-1,4-Dichloro-2-buten	10.31	75	83016	59.155	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.15	105	6936	0.693	ug/l	96
90) Hexachloroethane	12.26	117	862	0.417	ug/l #	8
95) Naphthalene	13.74	128	328820	30.580	ug/l	99

(#) = 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# 1368

Delta R.T. 0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

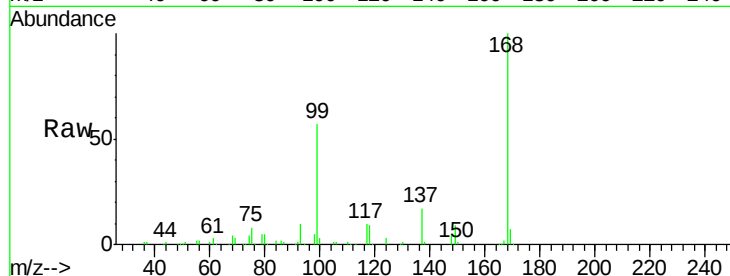
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 200092

Ion Ratio Lower Upper

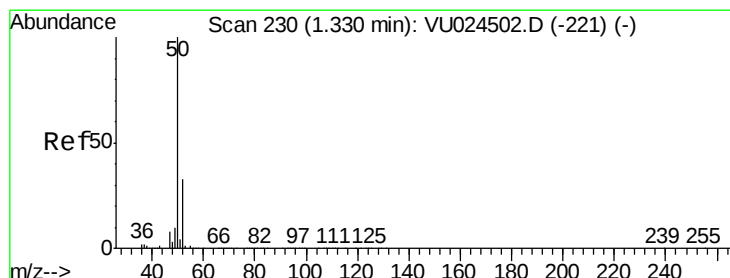
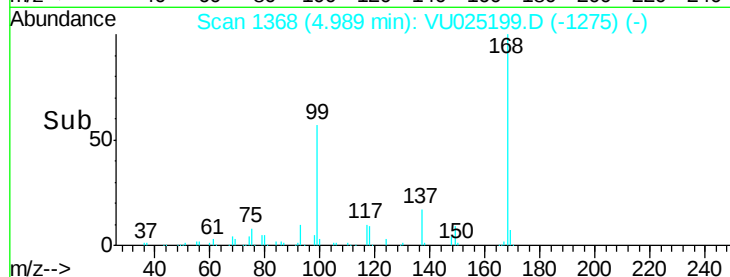
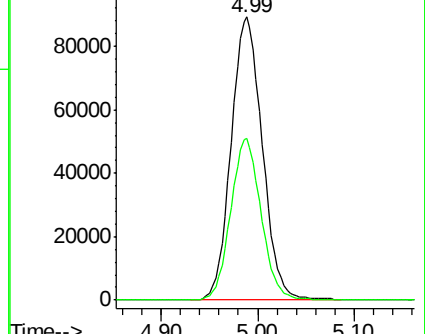
168 100

99 57.2 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) (-)



#3

Chloromethane

Concen: 0.222 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025199.D

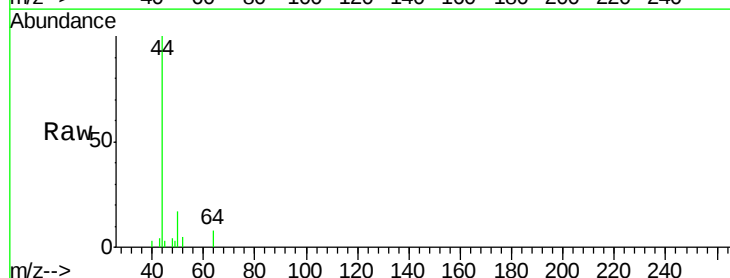
Acq: 03 Jul 2018 19:15

Tgt Ion: 50 Resp: 568

Ion Ratio Lower Upper

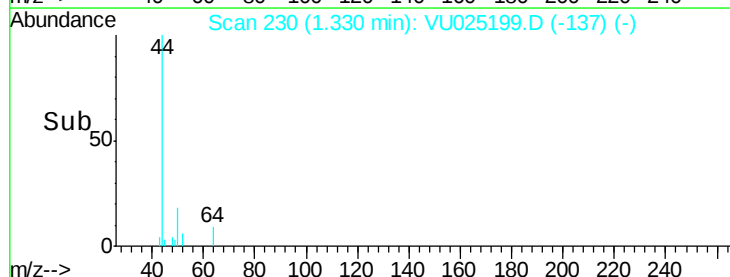
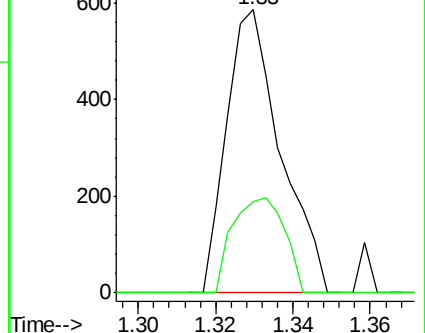
50 100

52 32.4 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) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :

MSVOA_U

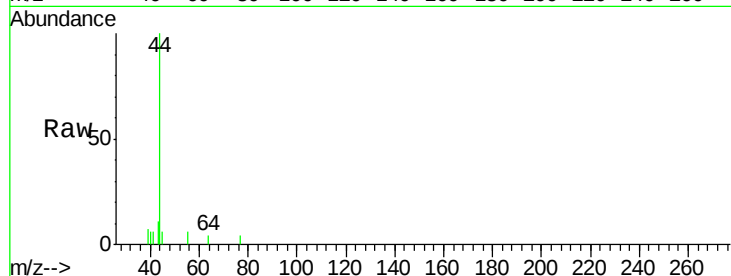
ClientSampled :

Tot Ion: 64 Resp: 64

Ion Ratio Lower Upper

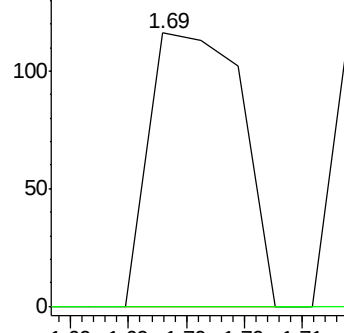
64 100

66 0.0 25.5 38.3#

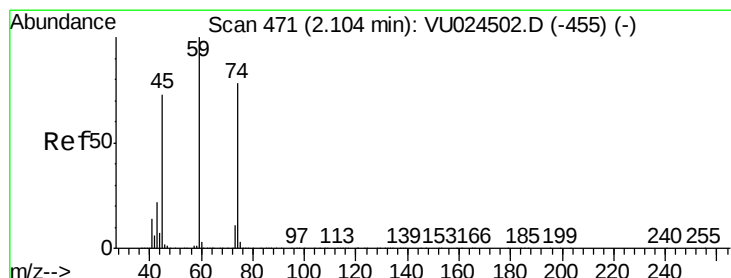
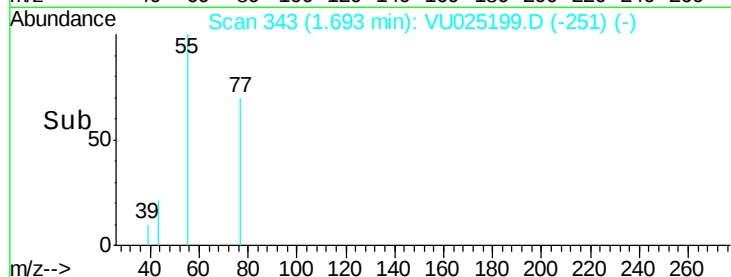


Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



Time--> 1.69 1.69 1.70 1.70 1.71



#8

Diethyl Ether

Concen: Below Cal

RT: 2.10 min Scan# 471

Delta R.T. 0.00 min

Lab File: VU025199.D

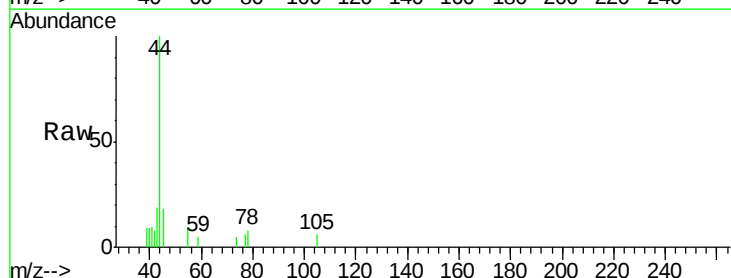
Acq: 03 Jul 2018 19:15

Tgt Ion: 74 Resp: 19

Ion Ratio Lower Upper

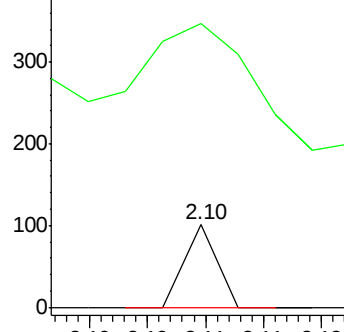
74 100

45 494.7 55.0 165.0#

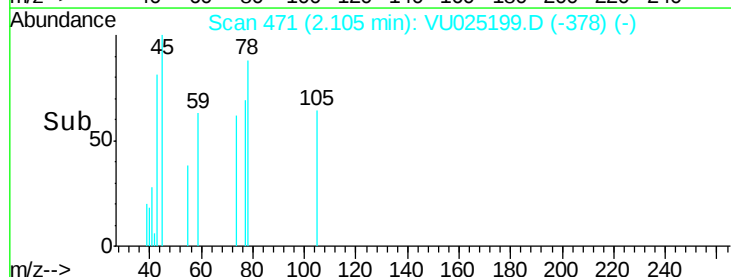


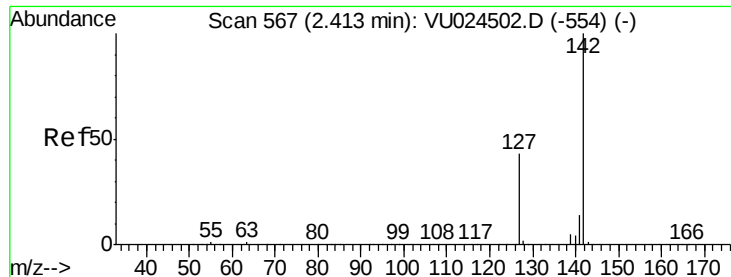
Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



Time--> 2.10 2.10 2.11 2.11 2.12





#10

Methvl Iodide

Concen: 5.333 ug/l

RT: 2.42 min Scan# 569

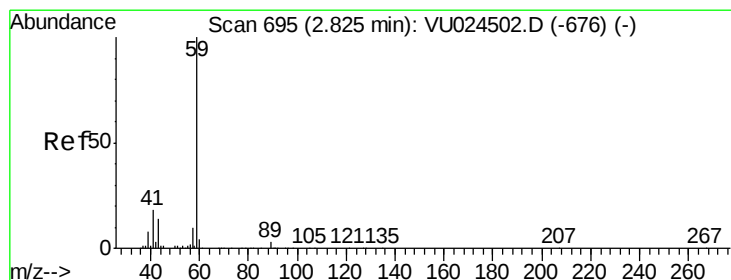
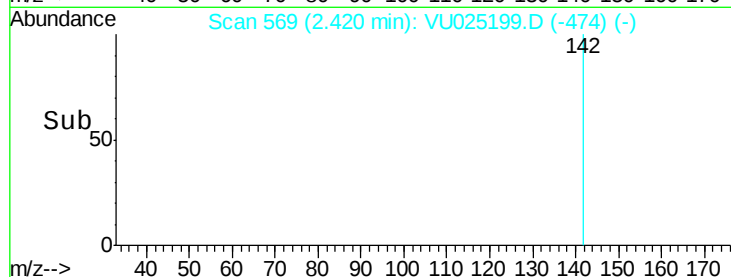
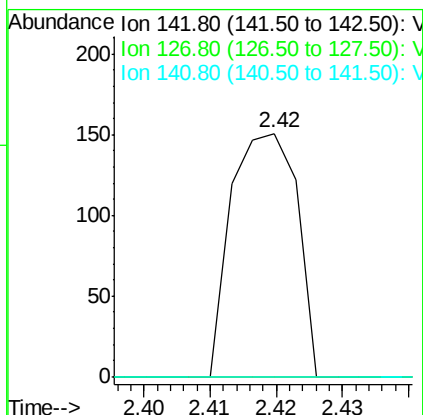
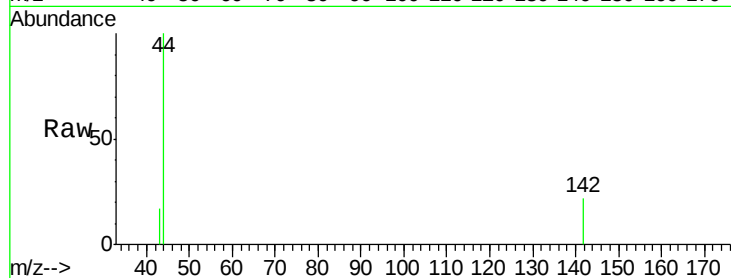
Delta R.T. 0.01 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:142	Resp:	104
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: 1.892 ug/l

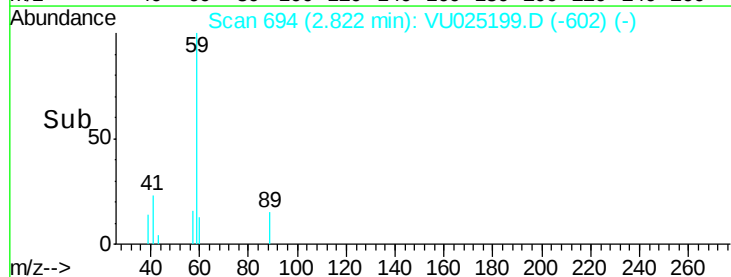
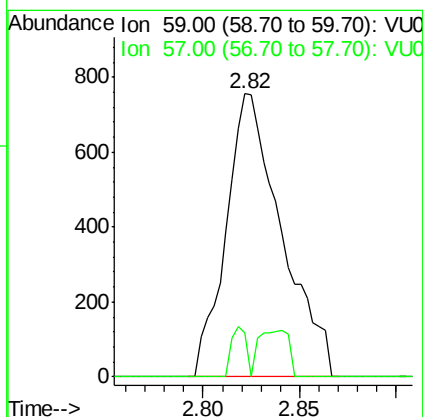
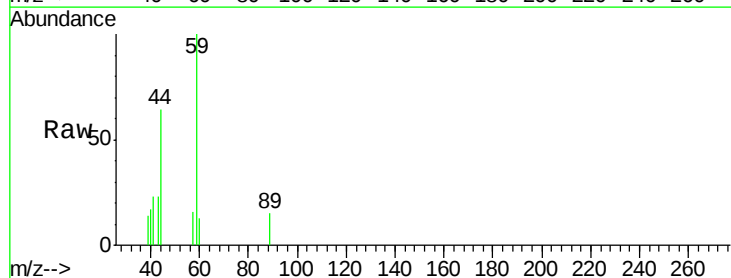
RT: 2.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Tgt Ion: 59	Resp:	1503
Ion	Ratio	Lower Upper
59	100	
57	4.6	8.5 12.7#

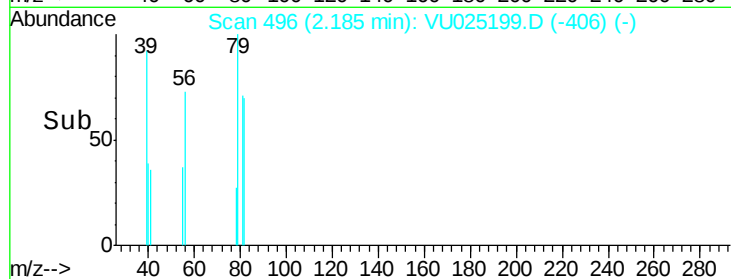
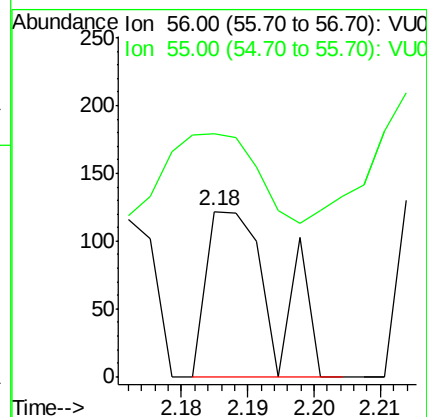
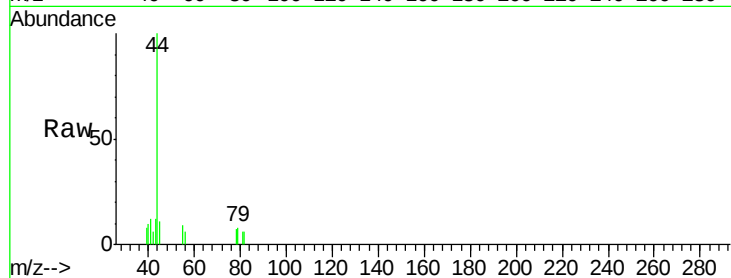




#13
Acrolein
Concen: 0.206 ug/l
RT: 2.18 min Scan# 496
Delta R.T. -0.01 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

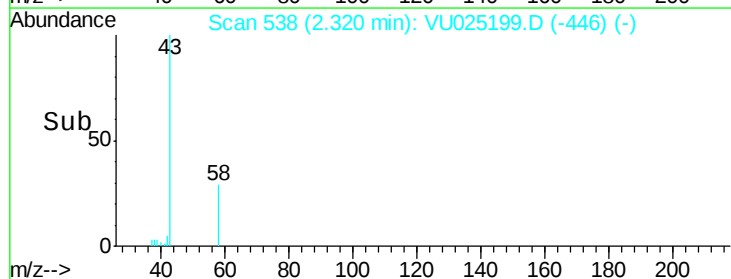
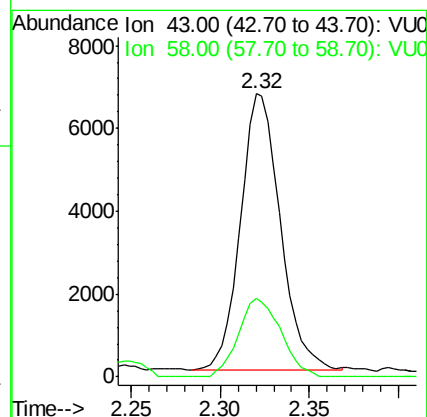
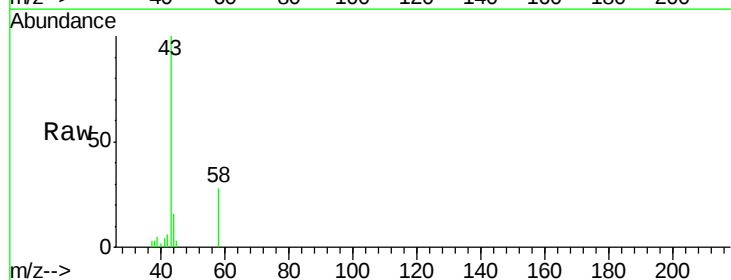
Instrument :
MSVOA_U
ClientSampled :

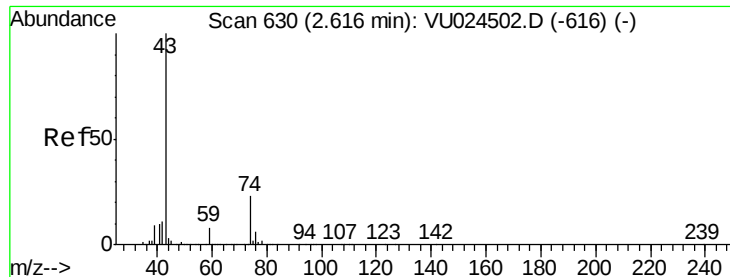
Tot Ion: 56 Resp: 86
Ion Ratio Lower Upper
56 100
55 93.0 58.4 87.6#



#16
Acetone
Concen: 5.916 ug/l
RT: 2.32 min Scan# 538
Delta R.T. -0.00 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

Tgt Ion: 43 Resp: 10384
Ion Ratio Lower Upper
43 100
58 28.2 24.4 36.6

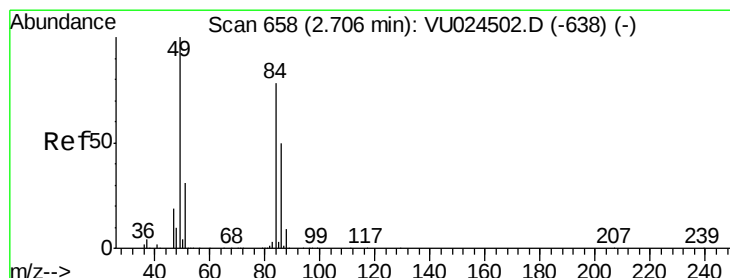
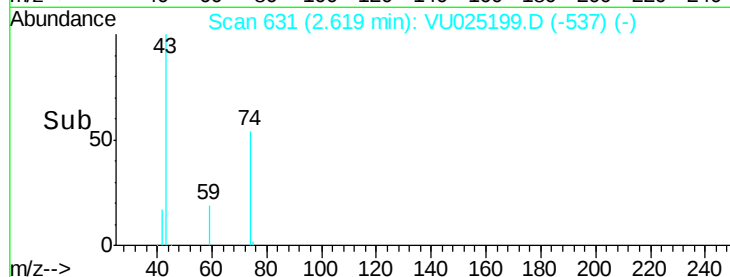
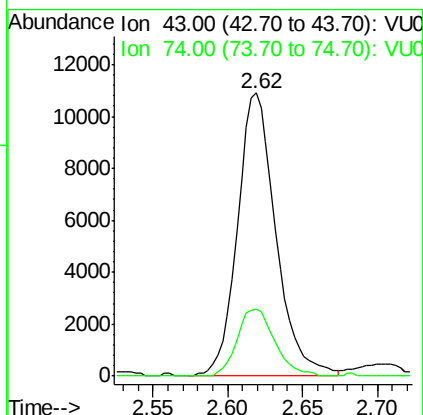
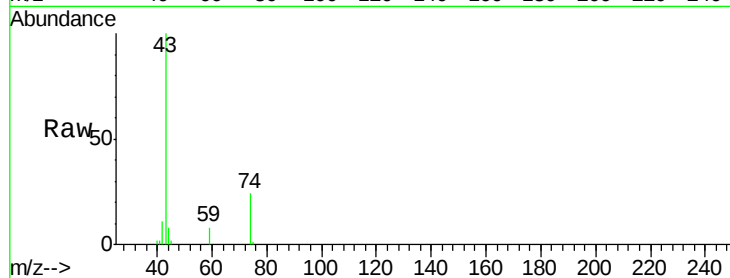




#18
Methvl Acetate
Concen: 5.190 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

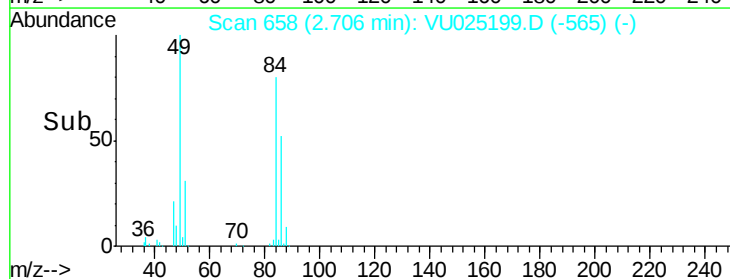
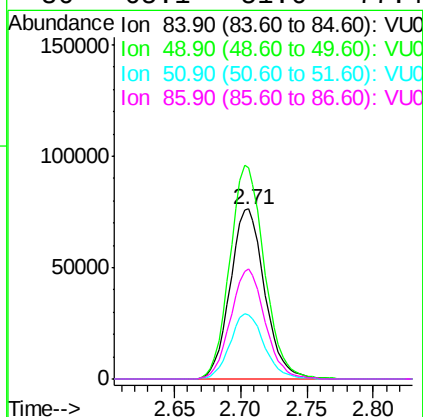
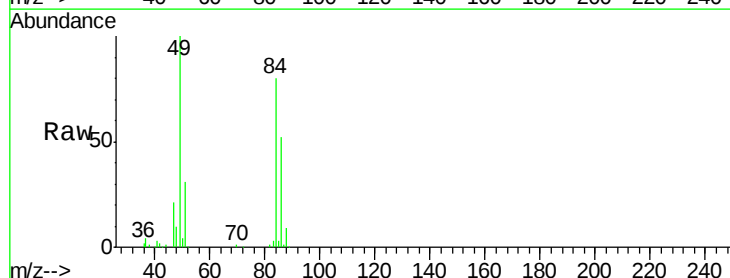
Instrument :
MSVOA_U
ClientSampleId :

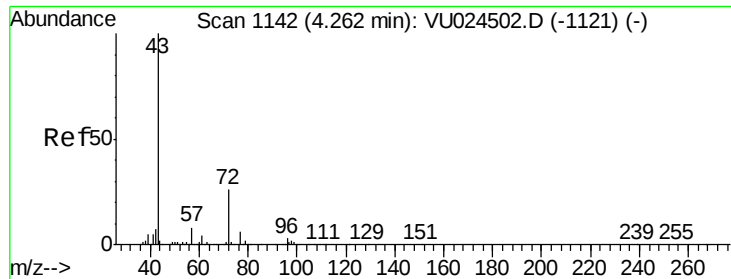
Tot Ion: 43 Resp: 19529
Ion Ratio Lower Upper
43 100
74 23.2 18.0 27.0



#20
Methylene Chloride
Concen: 50.157 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

Tgt Ion: 84 Resp: 138126
Ion Ratio Lower Upper
84 100
49 124.5 103.8 155.8
51 38.0 32.0 48.0
86 65.1 51.6 77.4

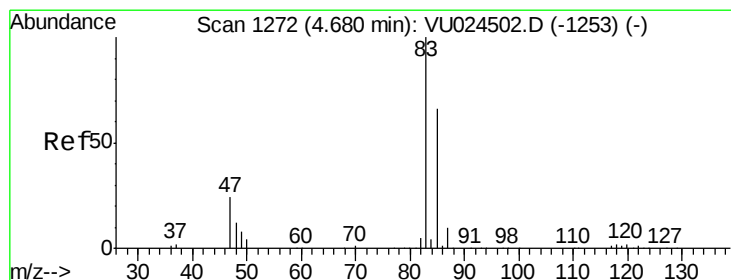
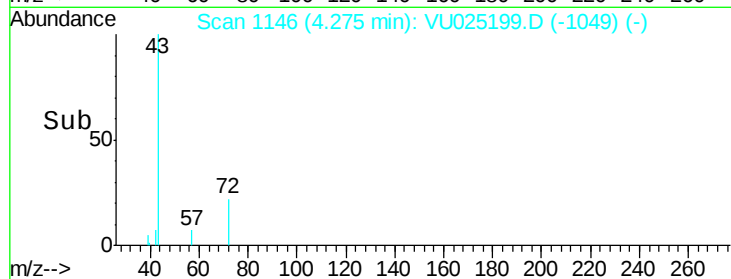
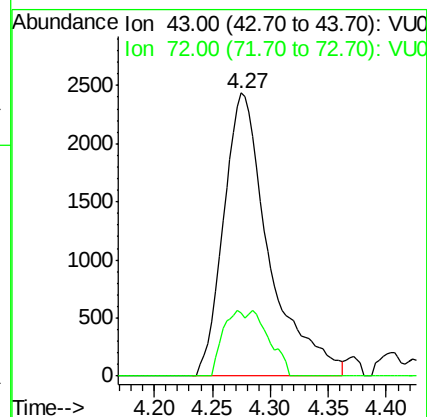
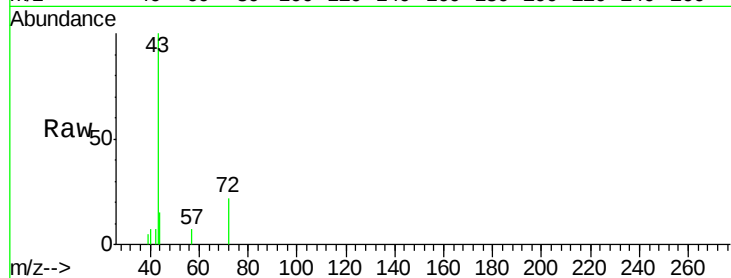




#25
2-Butanone
Concen: 2.817 ug/l
RT: 4.27 min Scan# 1146
Delta R.T. 0.01 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

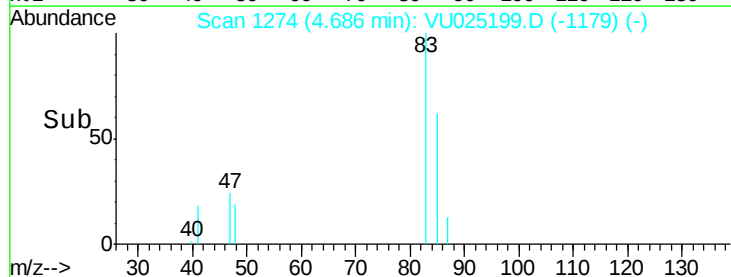
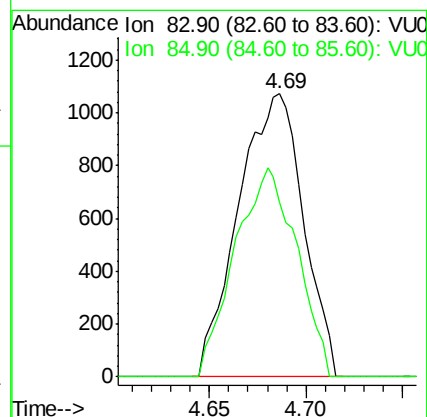
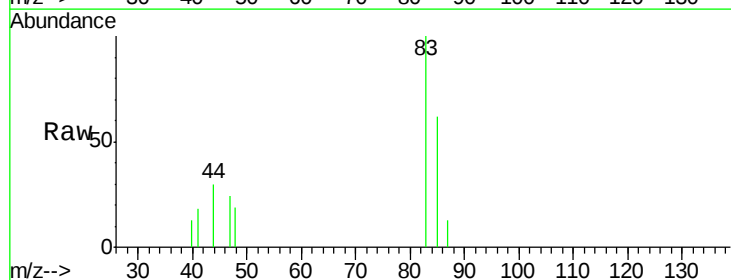
Instrument :
MSVOA_U
ClientSampled :

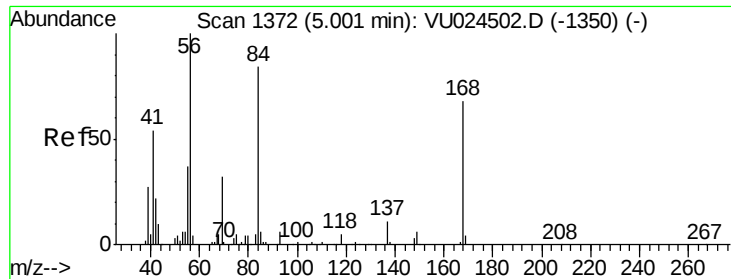
Tot Ion: 43 Resp: 6641
Ion Ratio Lower Upper
43 100
72 22.3 19.6 29.4



#30
Chloroform
Concen: 0.512 ug/l
RT: 4.69 min Scan# 1274
Delta R.T. 0.01 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

Tgt Ion: 83 Resp: 2498
Ion Ratio Lower Upper
83 100
85 61.7 52.4 78.6

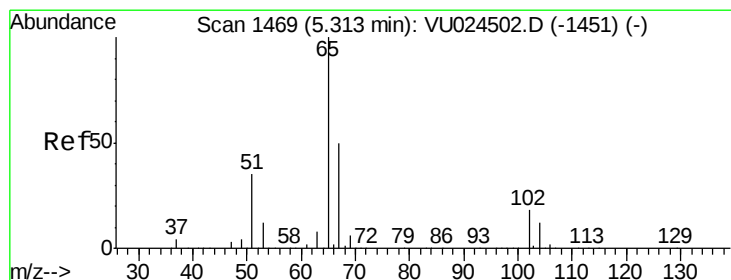
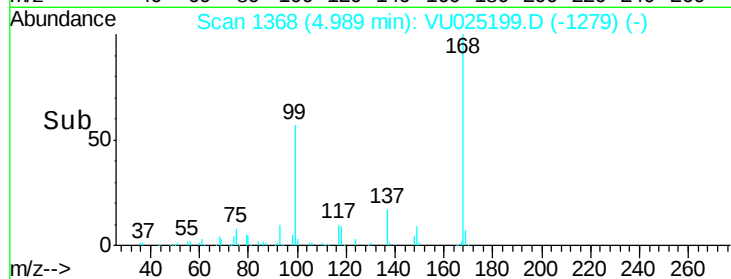
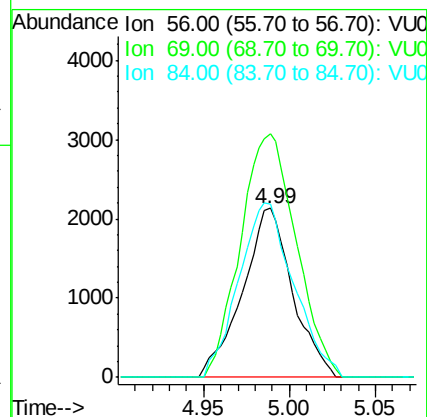
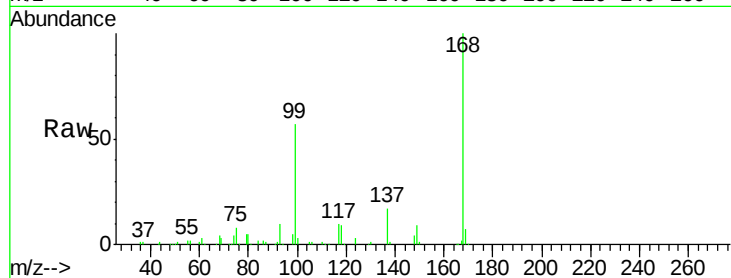




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

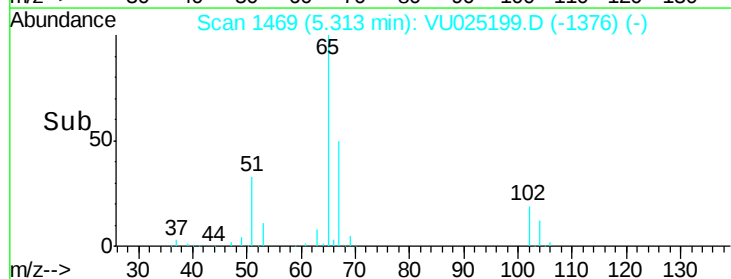
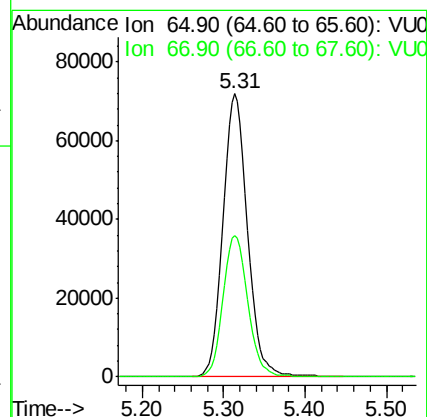
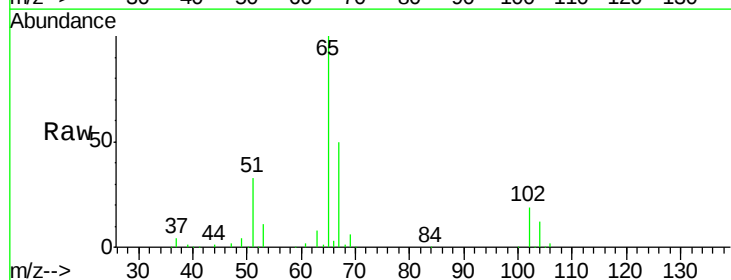
Instrument :
MSVOA_U
ClientSampleId :

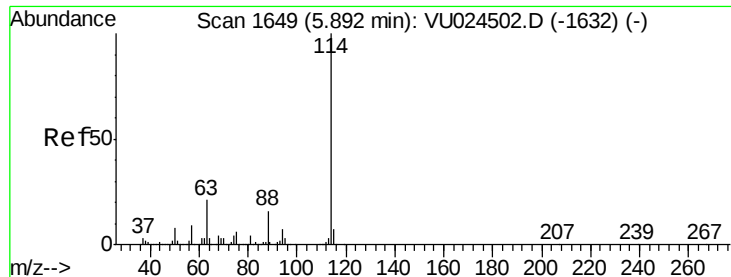
Tot Ion: 56 Resp: 4306
Ion Ratio Lower Upper
56 100
69 143.9 24.8 37.2#
84 102.1 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 46.906 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

Tgt Ion: 65 Resp: 153222
Ion Ratio Lower Upper
65 100
67 50.7 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: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :

MSVOA_U

ClientSampleId :

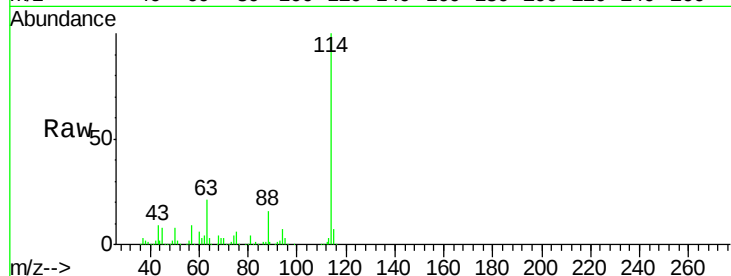
Tot Ion:114 Resp: 303117

Ion Ratio Lower Upper

114 100

63 21.3 0.0 45.4

88 16.4 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

200000

150000

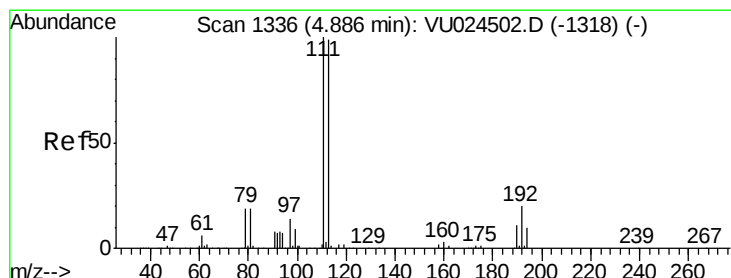
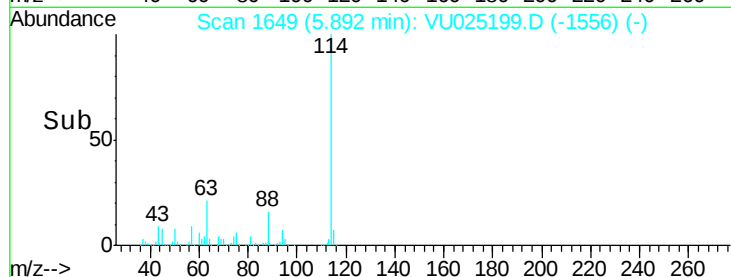
100000

50000

0

5.80 5.85 5.90 5.95 6.00

Time-->



#35

Dibromofluoromethane

Concen: 46.859 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

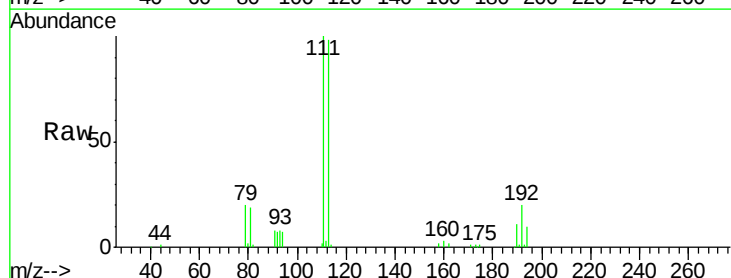
Tgt Ion:113 Resp: 117879

Ion Ratio Lower Upper

113 100

111 102.3 82.2 123.4

192 20.9 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

60000

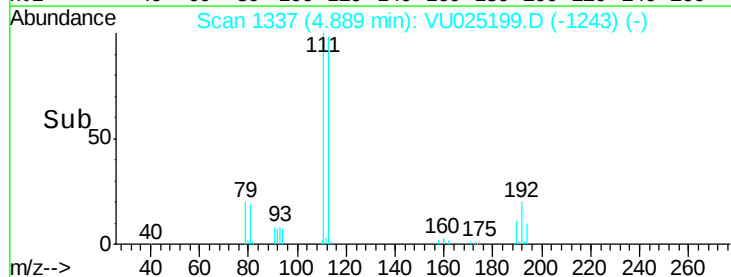
40000

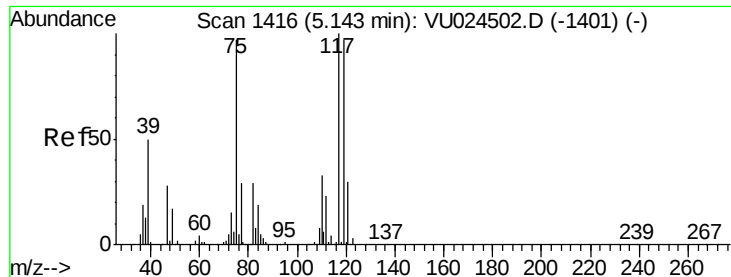
20000

0

4.80 4.90 5.00

Time-->

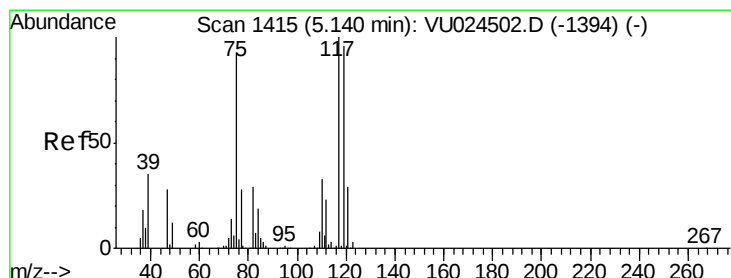
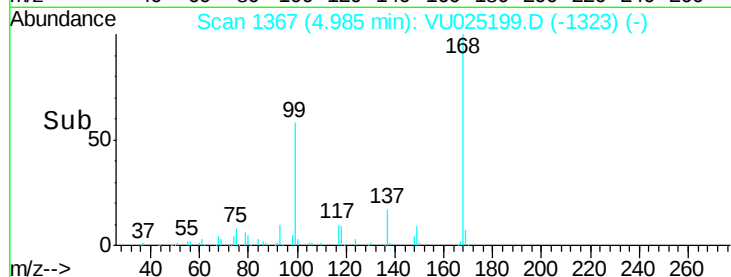
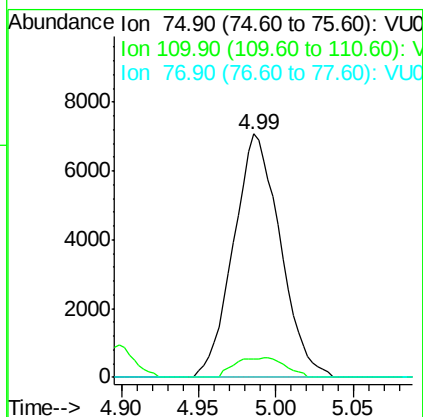
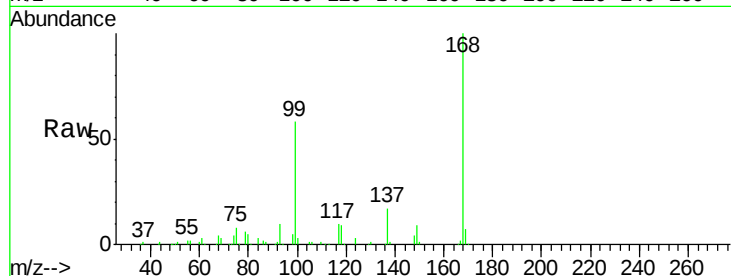




#36
 1,1-Dichloropropene
 Concen: 4.171 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025199.D
 Acq: 03 Jul 2018 19:15

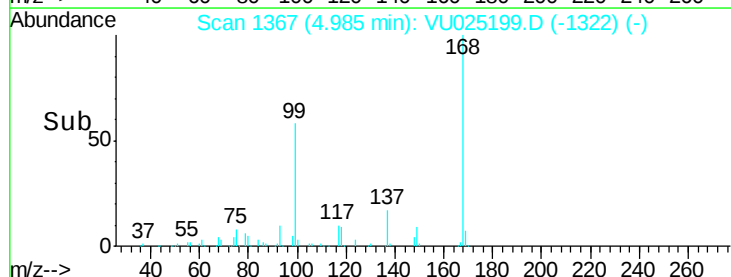
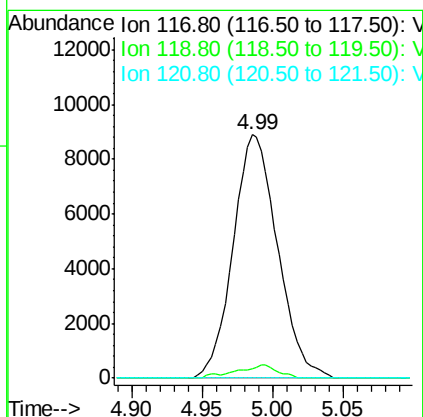
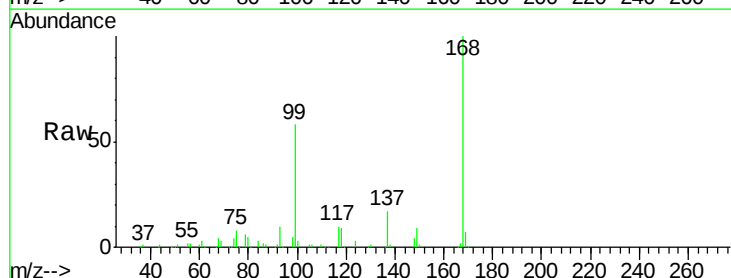
Instrument :
 MSVOA_U
 ClientSampleId :

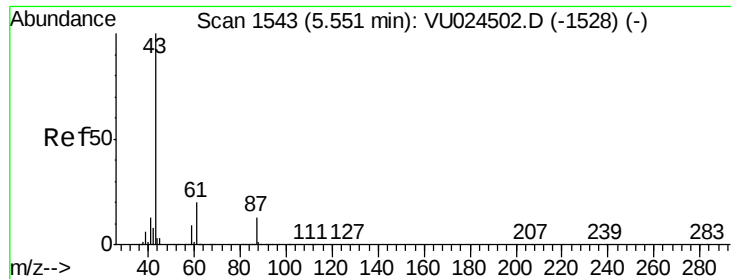
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.000 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.15 min
 Lab File: VU025199.D
 Acq: 03 Jul 2018 19:15

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.8	76.1	114.1#
121	0.0	23.7	35.5#





#43

Isopropyl Acetate

Concen: 4.772 ug/l

RT: 5.78 min Scan# 1615

Delta R.T. 0.23 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :

MSVOA_U

ClientSampleId :

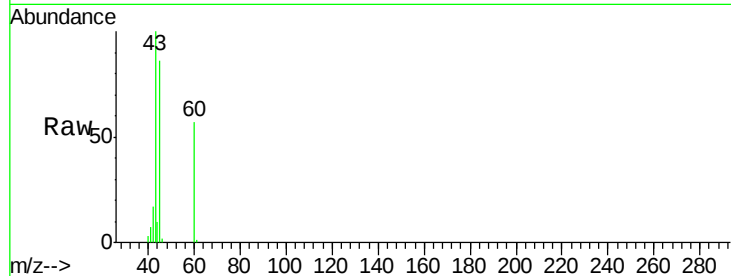
Tot Ion: 43 Resp: 32020

Ion Ratio Lower Upper

43 100

61 0.3 15.4 23.0#

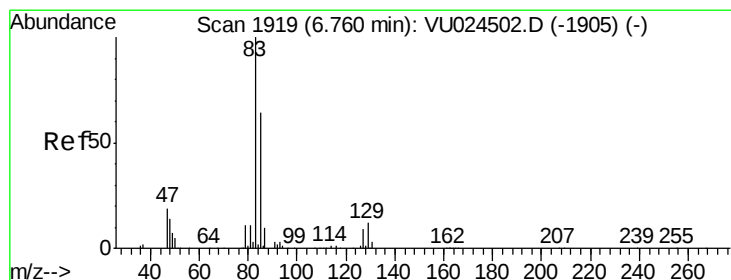
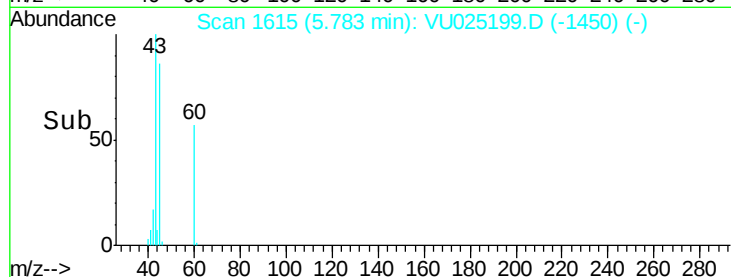
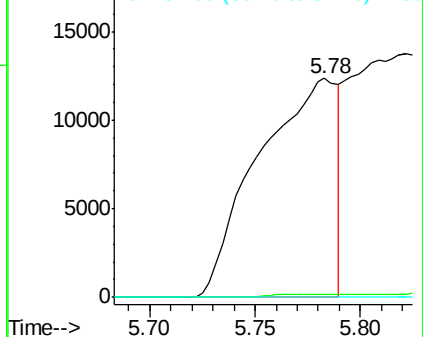
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0



#47

Bromodichloromethane

Concen: 0.280 ug/l

RT: 6.76 min Scan# 1920

Delta R.T. 0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

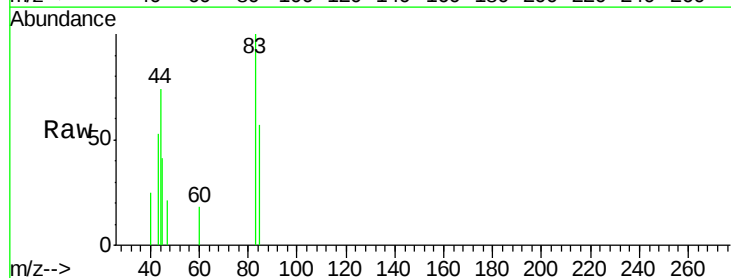
Tgt Ion: 83 Resp: 1059

Ion Ratio Lower Upper

83 100

85 57.0 51.9 77.9

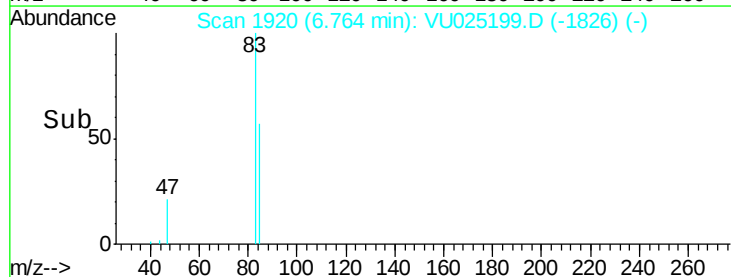
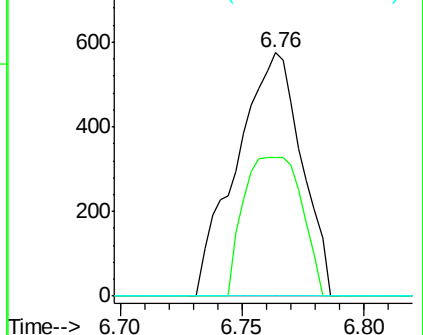
127 0.0 6.6 9.8#

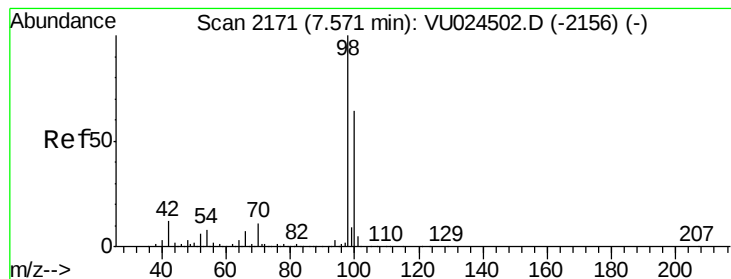


Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 126.80 (126.50 to 127.50): V





#50

Toluene-d8

Concen: 47.274 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :

MSVOA_U

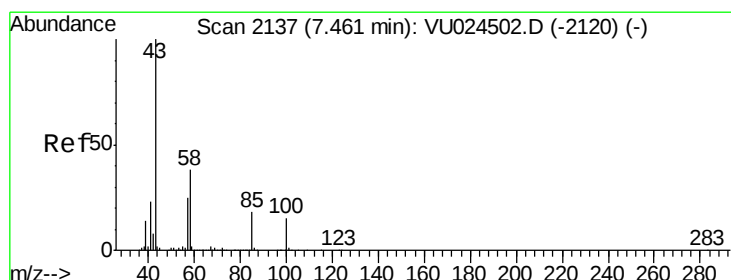
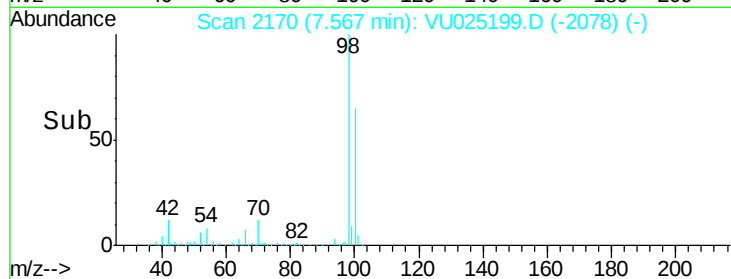
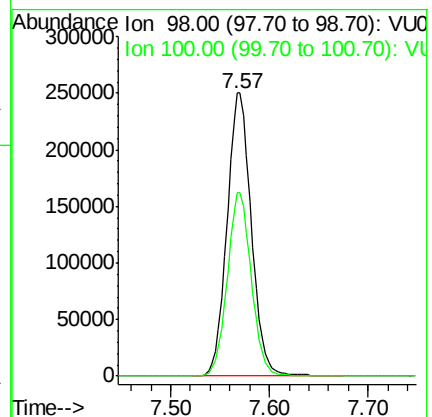
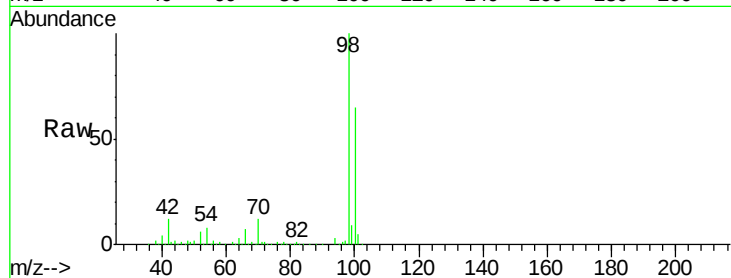
ClientSampled :

Tot Ion: 98 Resp: 433791

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.371 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU025199.D

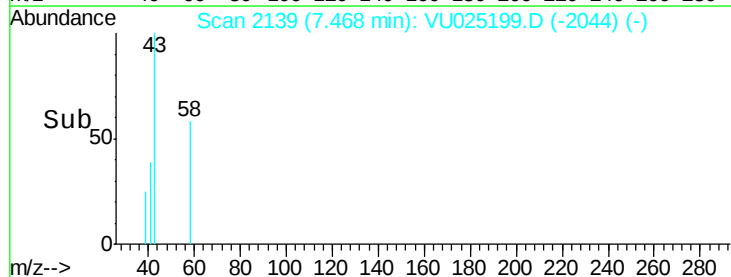
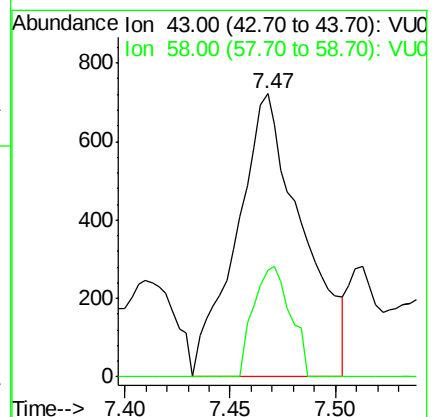
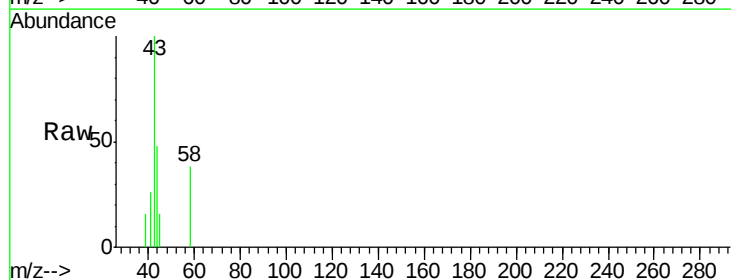
Acq: 03 Jul 2018 19:15

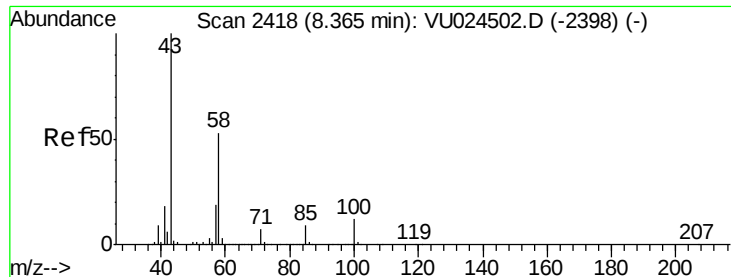
Tgt Ion: 43 Resp: 1566

Ion Ratio Lower Upper

43 100

58 21.9 30.0 45.0#

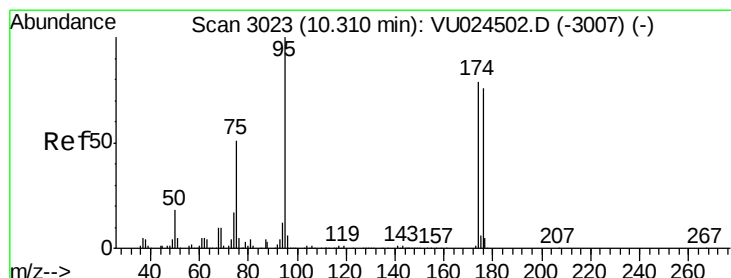
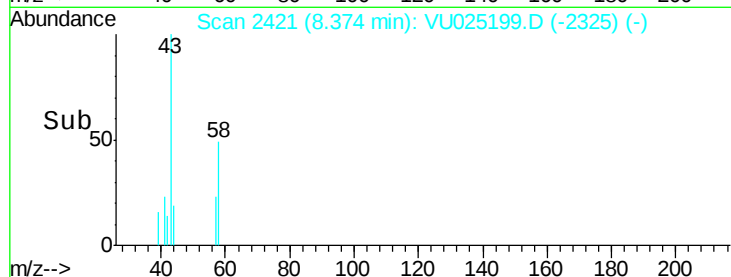
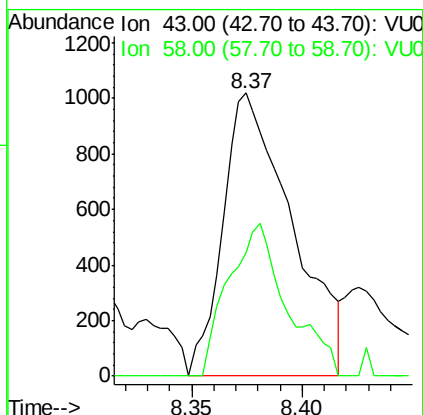
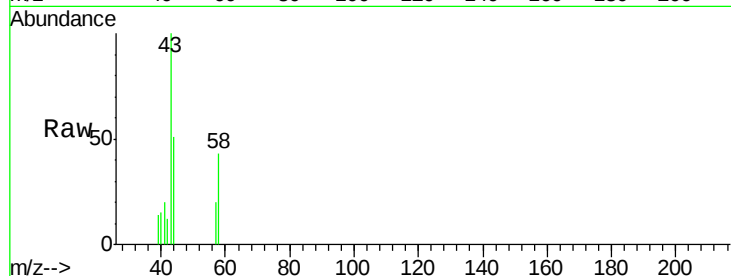




#59
2-Hexanone
Concen: 0.643 ug/l
RT: 8.37 min Scan# 2421
Delta R.T. 0.01 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

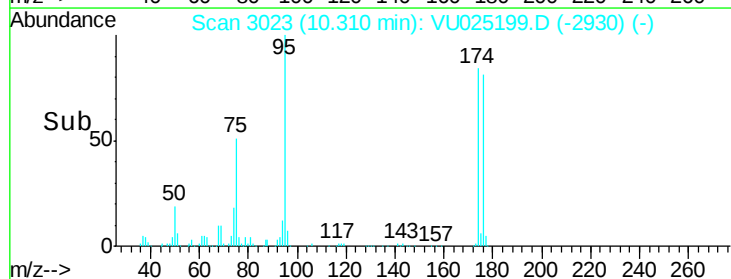
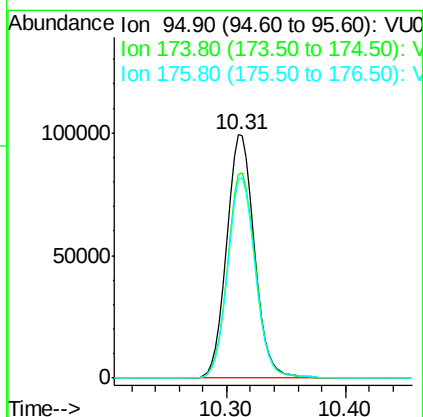
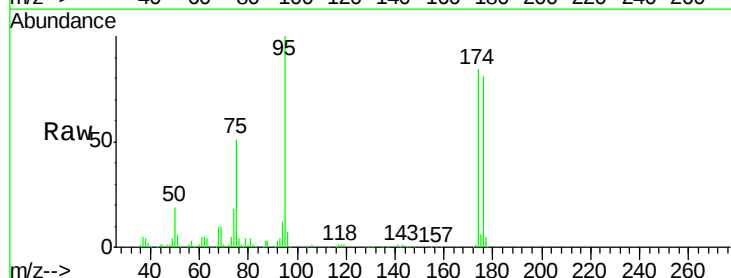
Instrument :
MSVOA_U
ClientSampled :

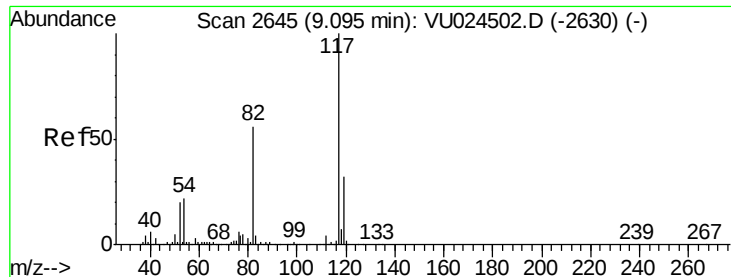
Tot Ion: 43 Resp: 2212
Ion Ratio Lower Upper
43 100
58 45.8 26.4 79.0



#62
4-Bromofluorobenzene
Concen: 44.223 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU025199.D
Acq: 03 Jul 2018 19:15

Tgt Ion: 95 Resp: 161117
Ion Ratio Lower Upper
95 100
174 84.7 0.0 165.8
176 82.0 0.0 159.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :

MSVOA_U

ClientSampleId :

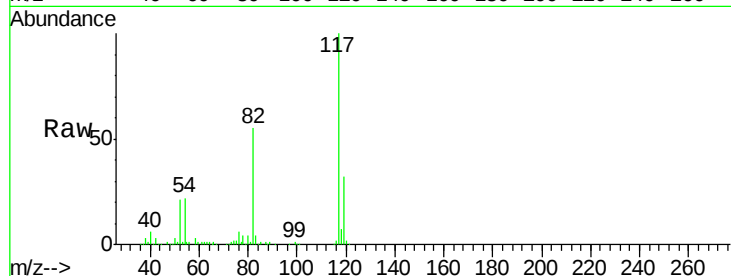
Tot Ion:117 Resp: 278852

Ion Ratio Lower Upper

117 100

82 55.0 44.3 66.5

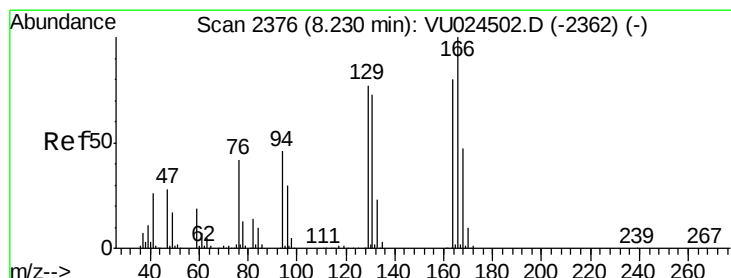
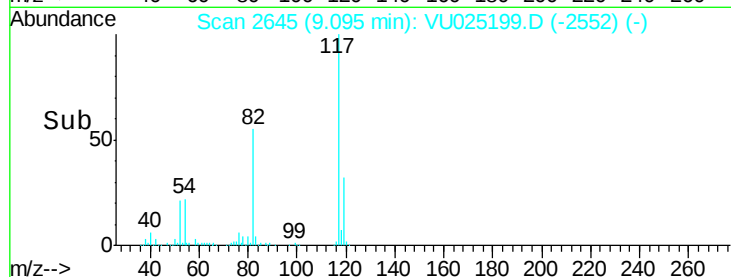
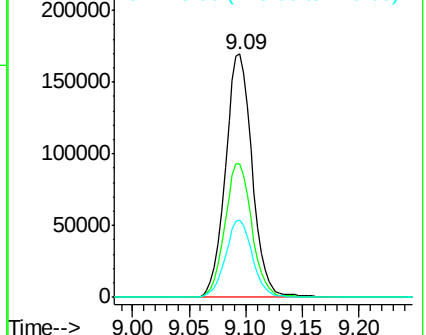
119 31.6 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.410 ug/l

RT: 8.23 min Scan# 2376

Delta R.T. 0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Tgt Ion:164 Resp: 1086

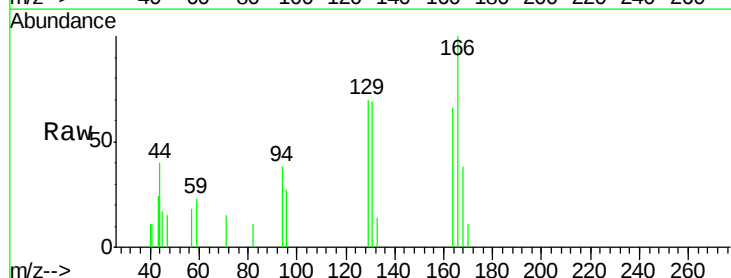
Ion Ratio Lower Upper

164 100

166 151.6 101.7 152.5

129 105.4 76.9 115.3

131 103.9 74.9 112.3

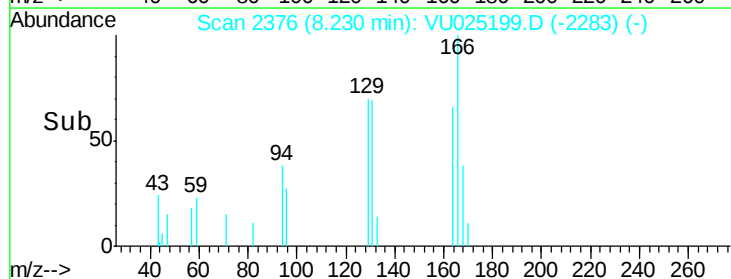
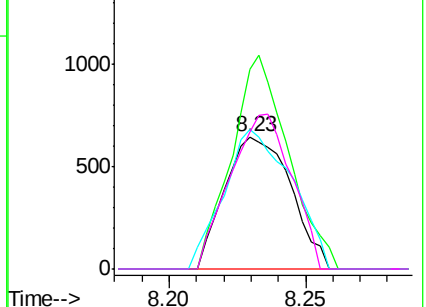


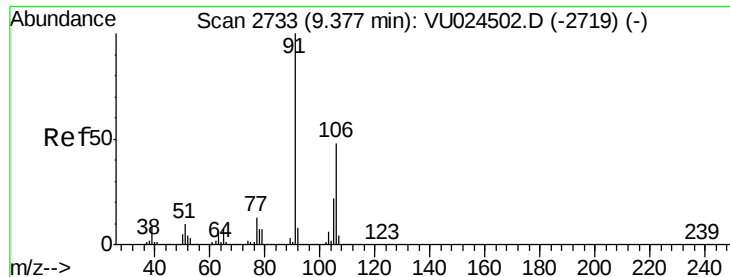
Abundance Ion 163.80 (163.50 to 164.50): V

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





#68

m/p-Xvlenes

Concen: 0.305 ug/l

RT: 9.38 min Scan# 2734

Delta R.T. 0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :

MSVOA_U

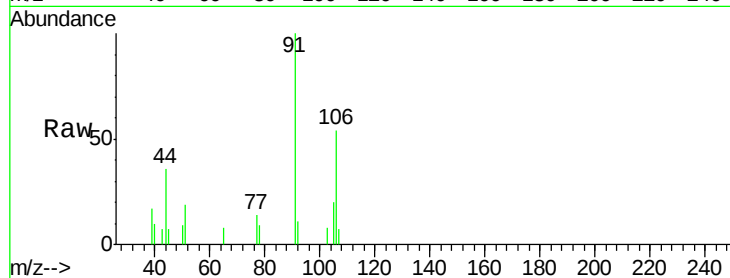
ClientSampleId :

Tot Ion:106 Resp: 1464

Ion Ratio Lower Upper

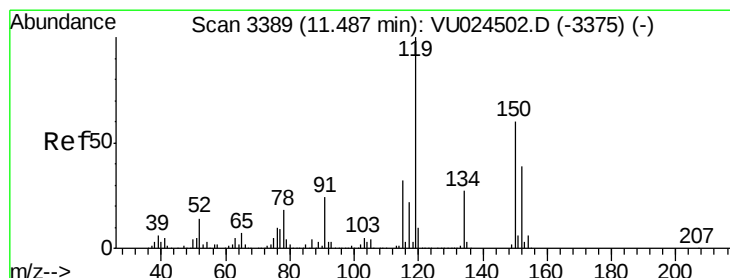
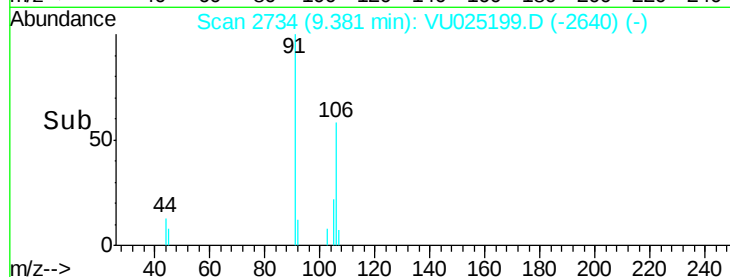
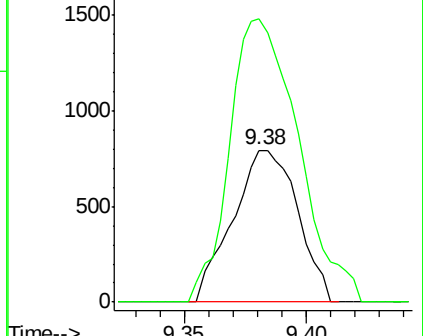
106 100

91 198.1 166.5 249.7



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

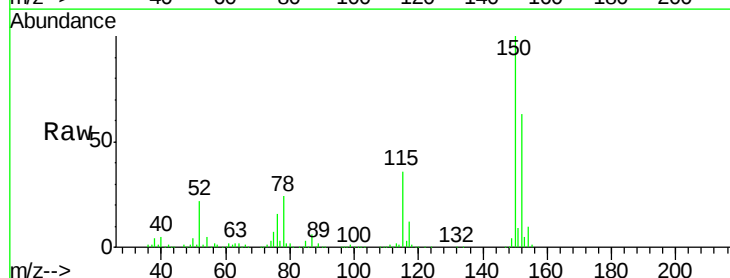
Tgt Ion:152 Resp: 147526

Ion Ratio Lower Upper

152 100

115 57.0 43.0 129.0

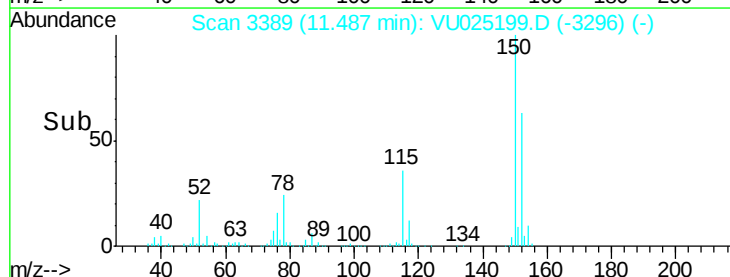
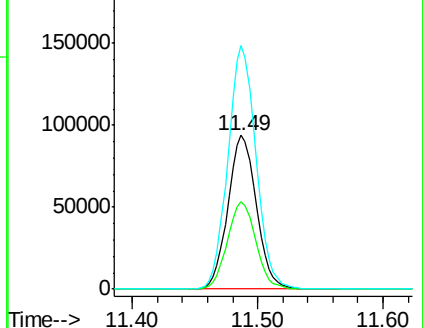
150 156.8 0.0 354.0

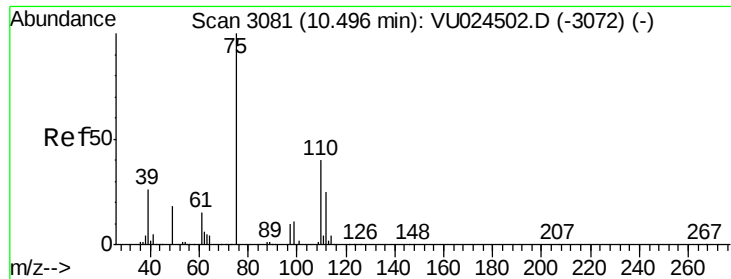


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

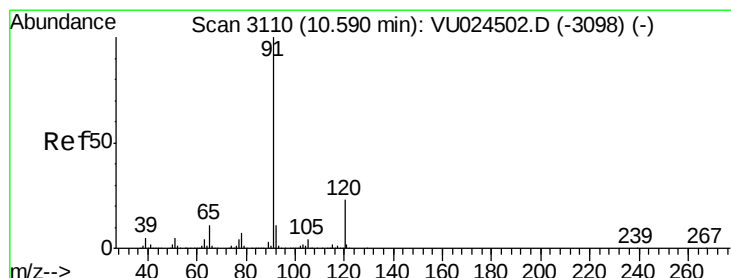
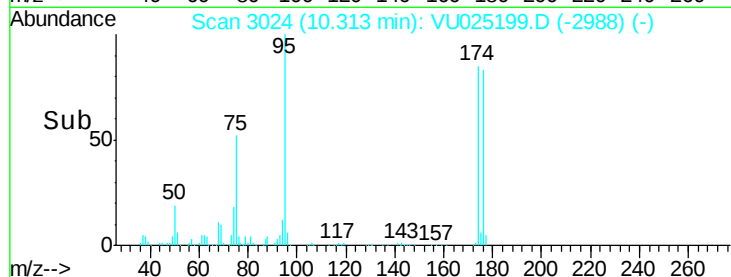
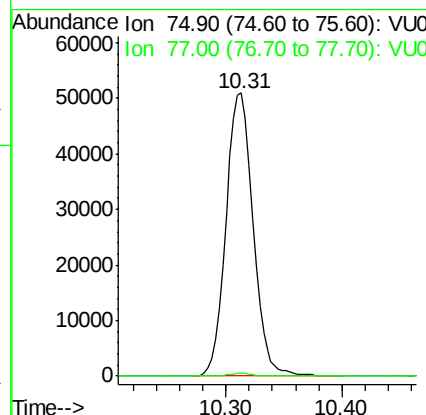
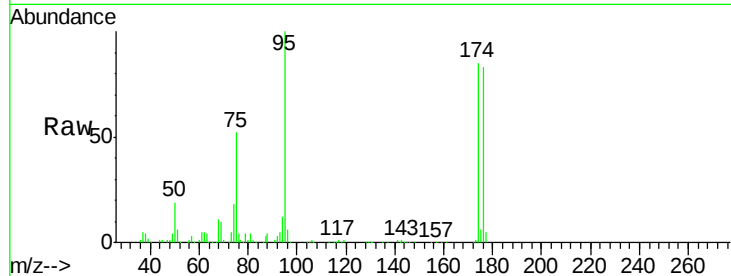




#76
 1,2,3-Trichloropropane
 Concen: 25.559 ug/l
 RT: 10.31 min Scan# 3024
 Delta R.T. -0.18 min
 Lab File: VU025199.D
 Acq: 03 Jul 2018 19:15

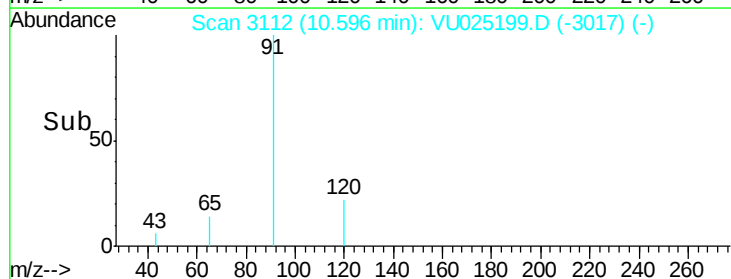
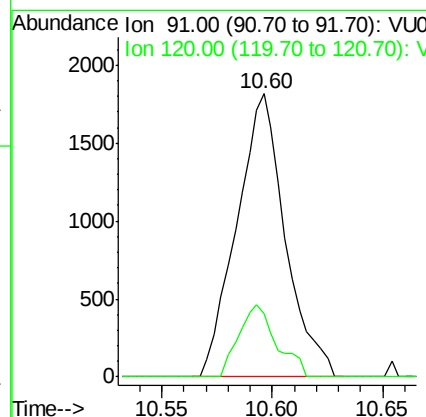
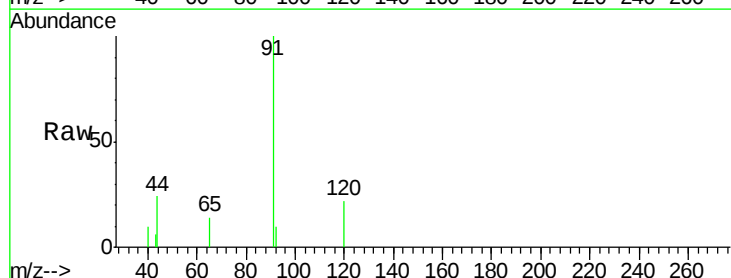
Instrument :
 MSVOA_U
 ClientSampled :

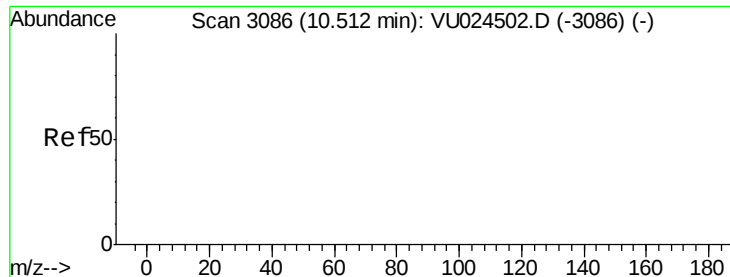
Tot Ion: 75 Resp: 83016
 Ion Ratio Lower Upper
 75 100
 77 0.8 20.9 62.7#



#78
 n-propylbenzene
 Concen: 0.207 ug/l
 RT: 10.60 min Scan# 3112
 Delta R.T. 0.01 min
 Lab File: VU025199.D
 Acq: 03 Jul 2018 19:15

Tgt Ion: 91 Resp: 2763
 Ion Ratio Lower Upper
 91 100
 120 19.8 11.2 33.5





#81

trans-1,4-Dichloro-2-butene

Concen: 59.155 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.20 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :

MSVOA_U

ClientSampleId :

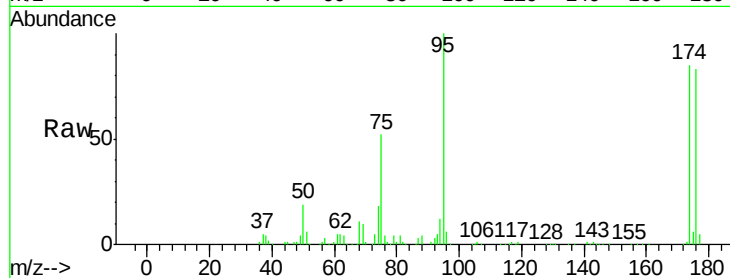
Tot Ion: 75 Resp: 83016

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

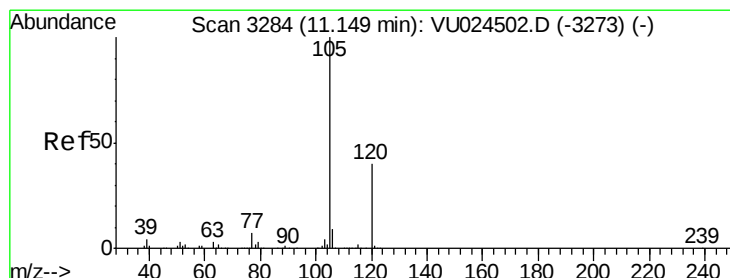
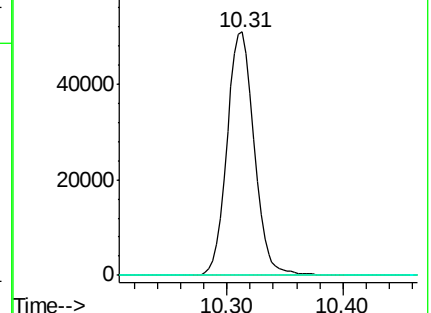
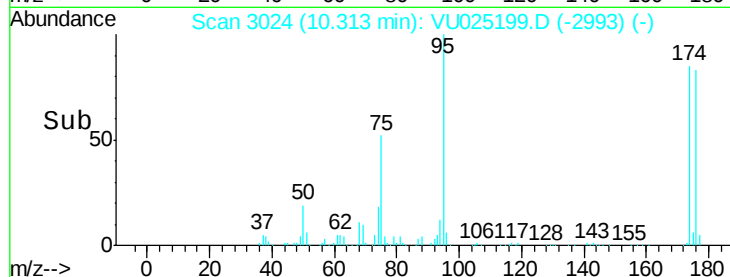
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.693 ug/l

RT: 11.15 min Scan# 3285

Delta R.T. 0.00 min

Lab File: VU025199.D

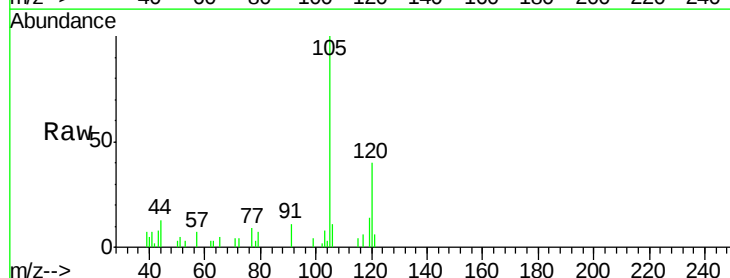
Acq: 03 Jul 2018 19:15

Tgt Ion: 105 Resp: 6936

Ion Ratio Lower Upper

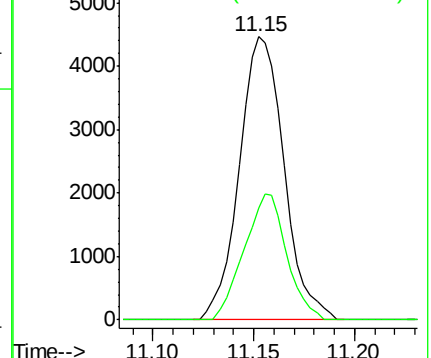
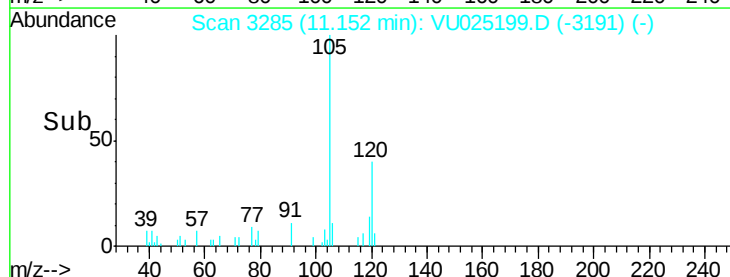
105 100

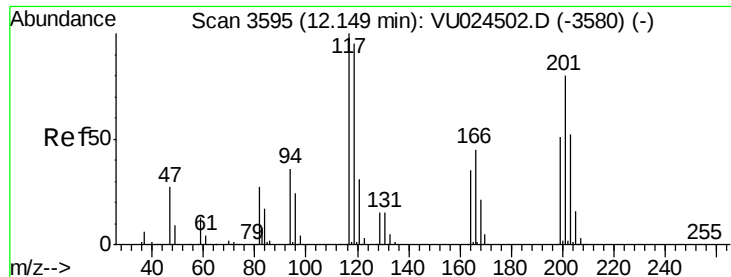
120 42.3 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): VU024502.D (-3273) (-)

Ion 120.00 (119.70 to 120.70): VU024502.D (-3273) (-)





#90

Hexachloroethane

Concen: 0.417 ug/l

RT: 12.26 min Scan# 3630

Delta R.T. 0.11 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

Instrument :

MSVOA_U

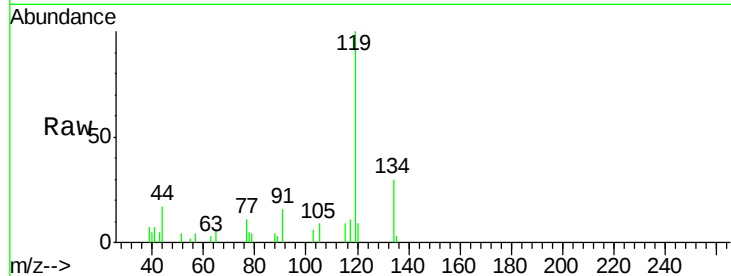
ClientSampleId :

Tot Ion:117 Resp: 862

Ion Ratio Lower Upper

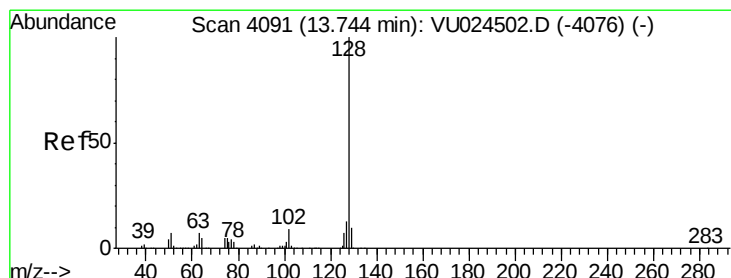
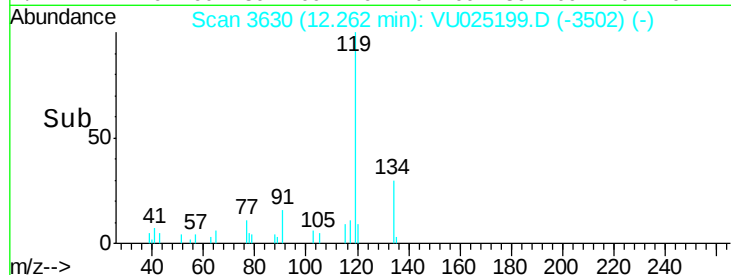
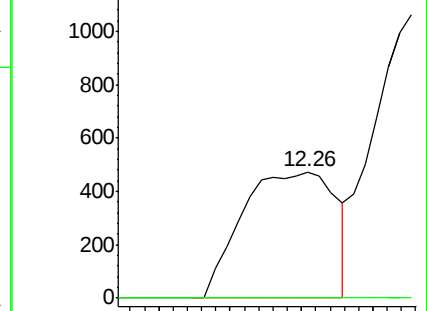
117 100

201 0.0 41.1 123.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 30.580 ug/l

RT: 13.74 min Scan# 4091

Delta R.T. 0.00 min

Lab File: VU025199.D

Acq: 03 Jul 2018 19:15

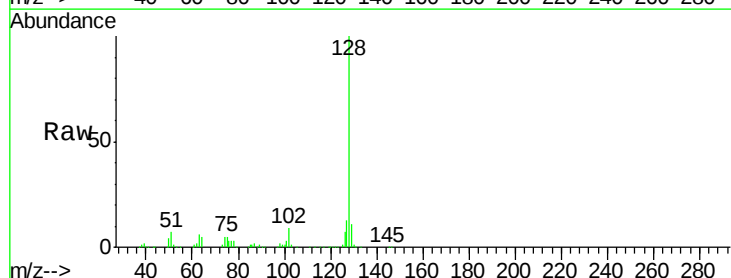
Tgt Ion:128 Resp: 328820

Ion Ratio Lower Upper

128 100

127 12.9 10.6 16.0

129 11.2 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

