

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025165.D
 Acq On : 03 Jul 2018 01:23
 Operator : MD/SY
 Sample : J3809-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 SUMP-062818

Quant Time: Jul 03 03:05:16 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

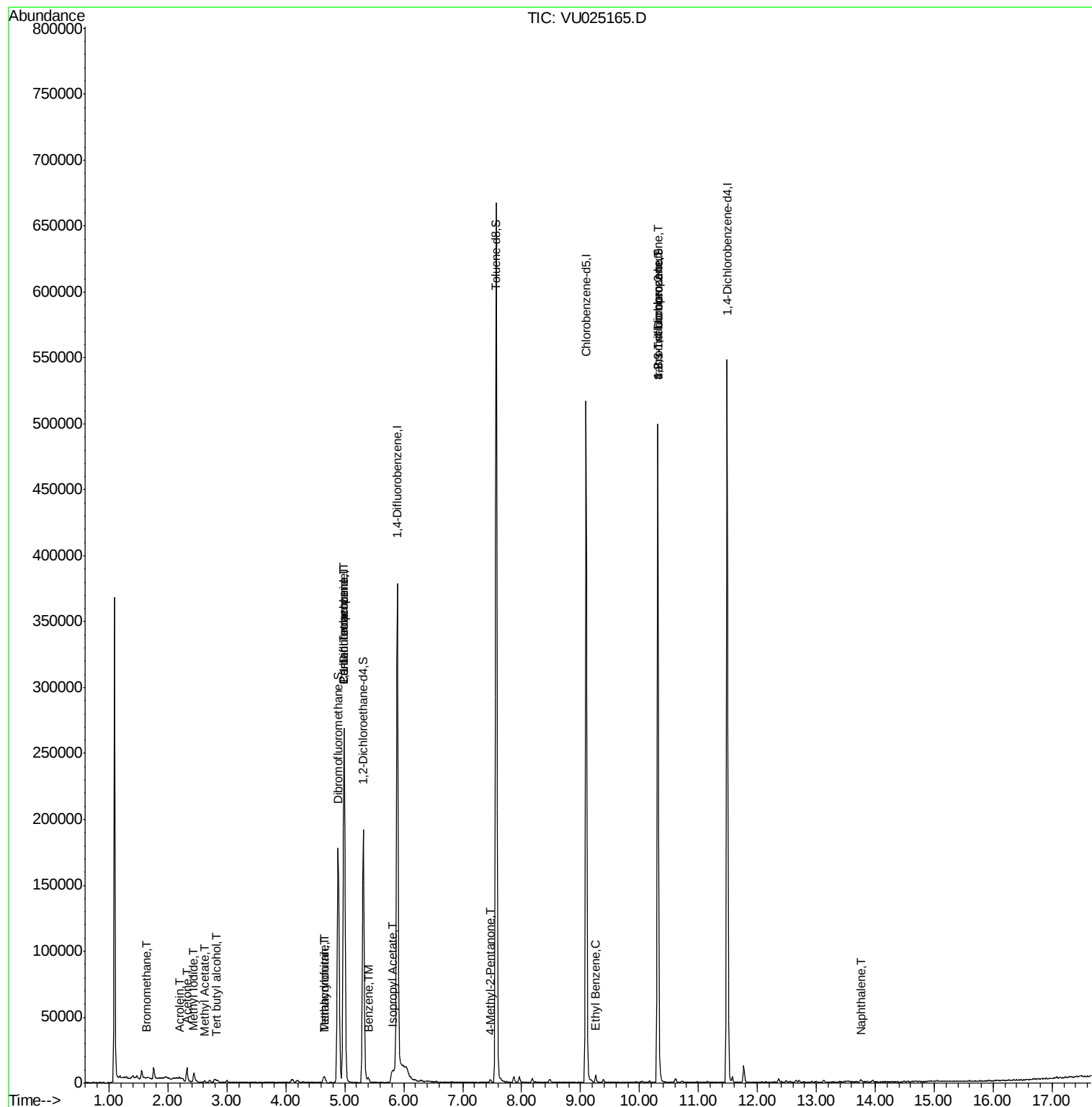
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	205238	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	311253	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	281809	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	145226	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	155760	46.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.98%	
35) Dibromofluoromethane	4.89	113	121126	46.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.78%	
50) Toluene-d8	7.57	98	439257	46.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.24%	
62) 4-Bromofluorobenzene	10.31	95	162727	43.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.00%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.64	94	389	0.297	ug/l	83
6) Chloroethane	1.67	64	20	Below Cal	#	43
10) Methyl Iodide	2.42	142	242	5.388	ug/l #	40
11) Tert butyl alcohol	2.83	59	1376	1.689	ug/l #	72
13) Acrolein	2.20	56	159	0.372	ug/l #	1
16) Acetone	2.32	43	10644	5.913	ug/l	99
18) Methyl Acetate	2.62	43	1440	0.373	ug/l #	74
29) Tetrahydrofuran	4.65	42	3522	2.352	ug/l #	74
31) Cyclohexane	4.99	56	4833	Below Cal	#	11
36) 1,1-Dichloropropene	4.99	75	14799	4.046	ug/l #	52
38) Carbon Tetrachloride	4.99	117	19978	4.967	ug/l #	16
40) Benzene	5.40	78	3433	0.329	ug/l #	85
41) Methacrylonitrile	4.65	41	2338	1.088	ug/l #	49
43) Isopropyl Acetate	5.80	43	5083	0.738	ug/l #	62
51) 4-Methyl-2-Pentanone	7.47	43	2030	0.469	ug/l #	76
67) Ethyl Benzene	9.26	91	4472	0.354	ug/l #	86
76) 1,2,3-Trichloropropane	10.31	75	85532	26.751	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	85532	61.913	ug/l #	100
95) Naphthalene	13.75	128	2844	0.942	ug/l #	82

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

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Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

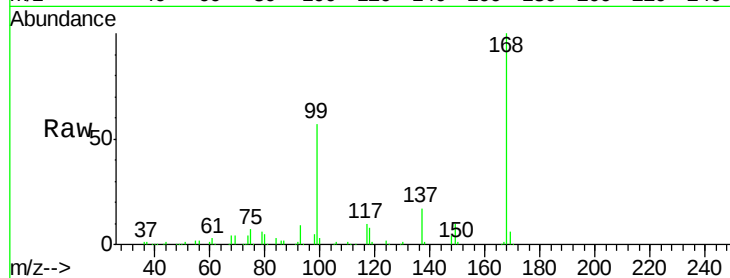
SUMP-062818

Tot Ion:168 Resp: 205238

Ion Ratio Lower Upper

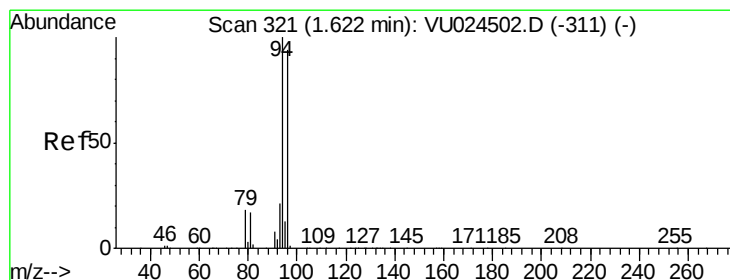
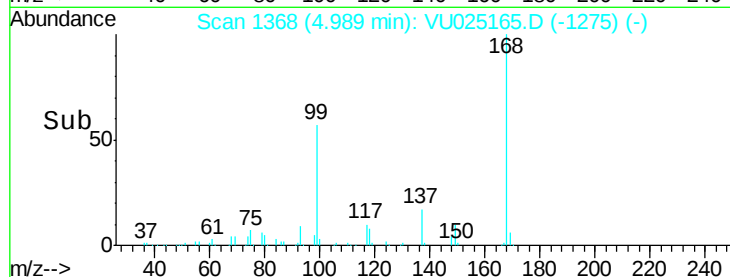
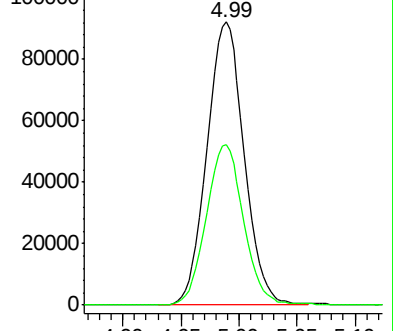
168 100

99 56.9 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) (-)



#5

Bromomethane

Concen: 0.297 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU025165.D

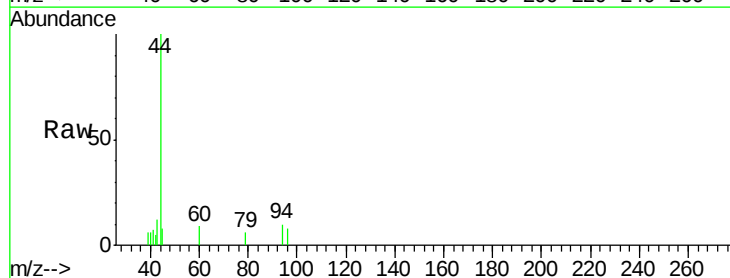
Acq: 03 Jul 2018 01:23

Tgt Ion: 94 Resp: 389

Ion Ratio Lower Upper

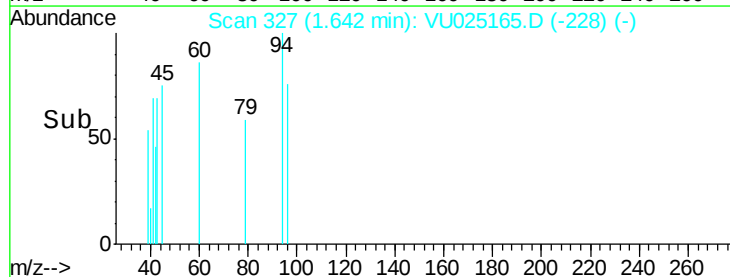
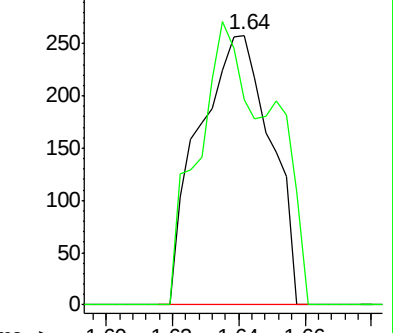
94 100

96 76.4 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU024502.D (-311) (-)

Ion 95.90 (95.60 to 96.60): VU024502.D (-311) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.67 min Scan# 336

Delta R.T. -0.03 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

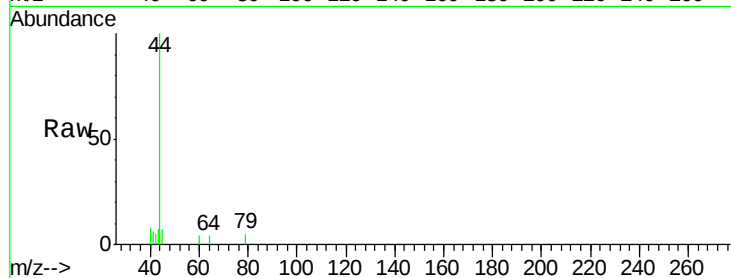
SUMP-062818

Tot Ion: 64 Resp: 20

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

1.67

100

80

60

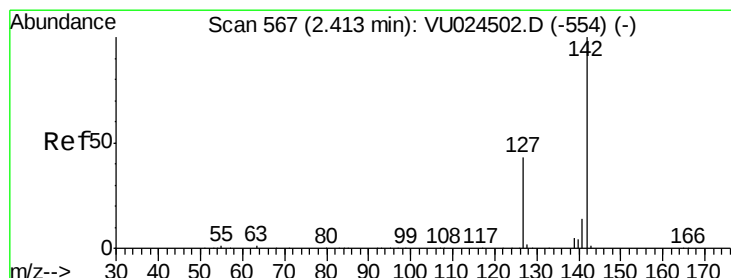
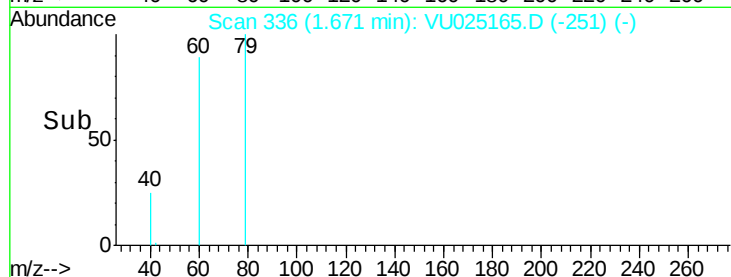
40

20

0

1.66 1.67 1.67 1.68 1.68

Time-->



#10

Methyl Iodide

Concen: 5.388 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

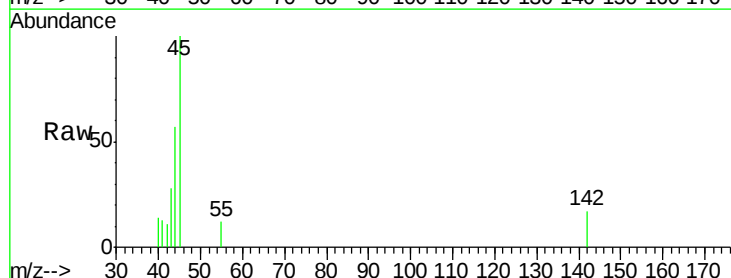
Tgt Ion: 142 Resp: 242

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

2.42

200

150

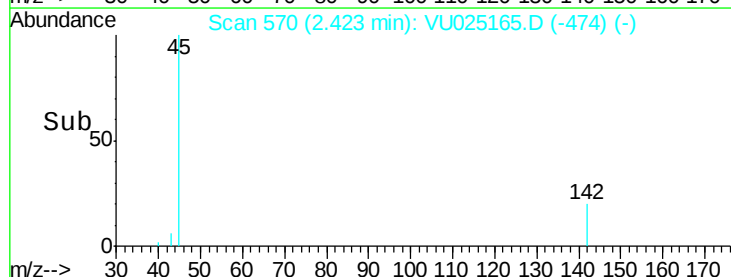
100

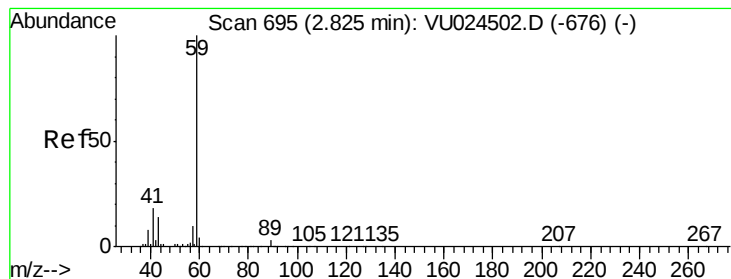
50

0

2.40 2.42 2.44

Time-->



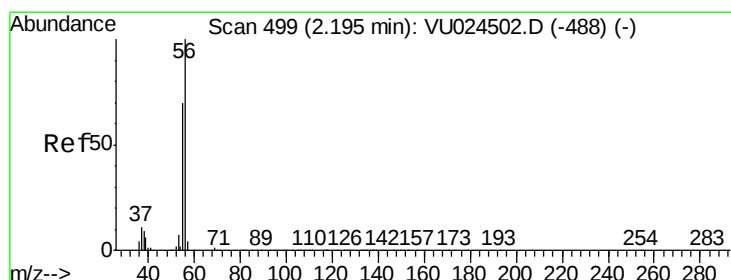
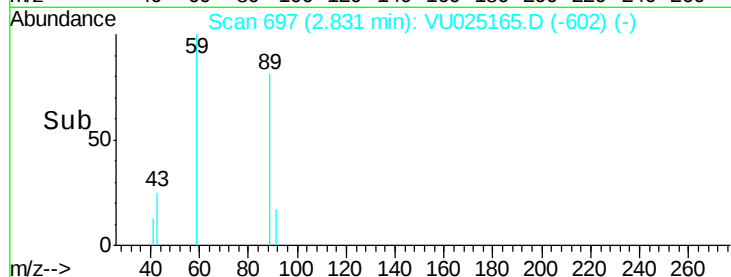
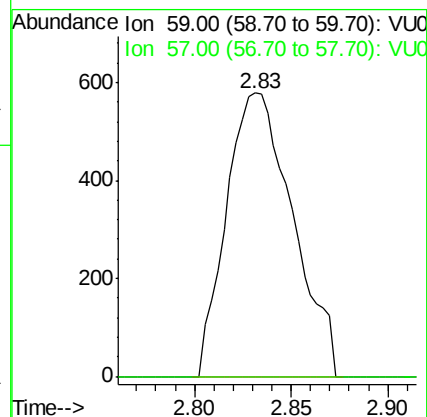
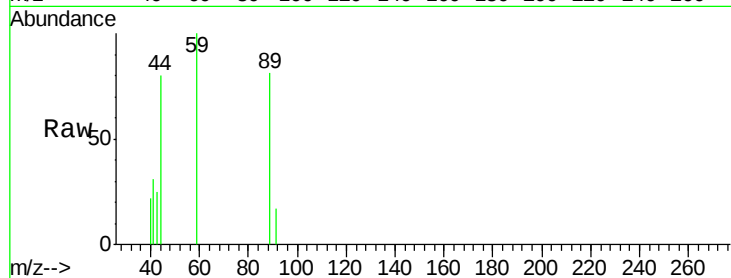


#11

Tert butyl alcohol
 Concen: 1.689 ug/l
 RT: 2.83 min Scan# 697
 Delta R.T. 0.01 min
 Lab File: VU025165.D
 Acq: 03 Jul 2018 01:23

Instrument :
 MSVOA_U
 ClientSampleId :
 SUMP-062818

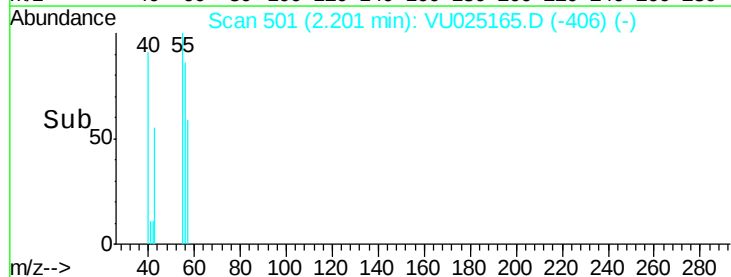
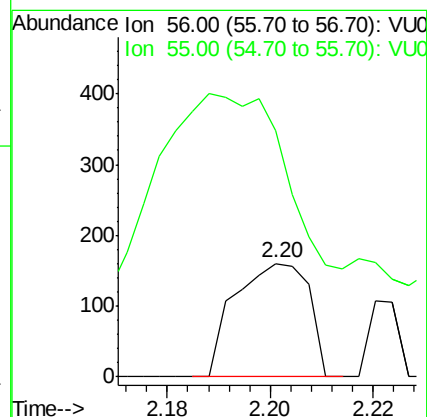
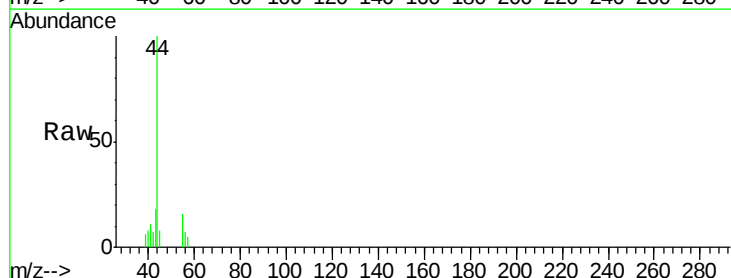
Tot Ion: 59 Resp: 1376
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

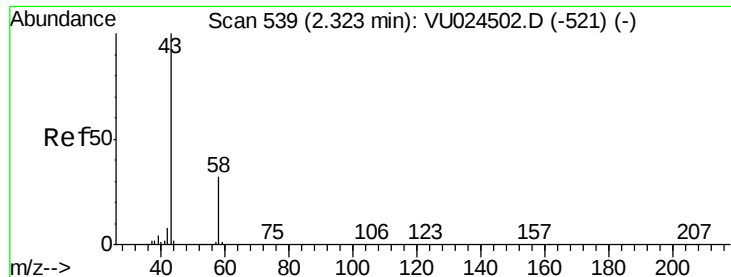


#13

Acrolein
 Concen: 0.372 ug/l
 RT: 2.20 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VU025165.D
 Acq: 03 Jul 2018 01:23

Tgt Ion: 56 Resp: 159
 Ion Ratio Lower Upper
 56 100
 55 517.6 58.4 87.6#





#16

Acetone

Concen: 5.913 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

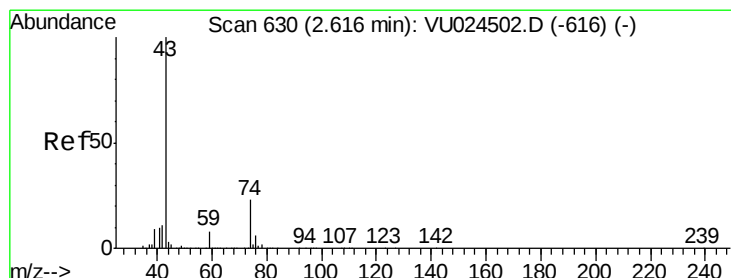
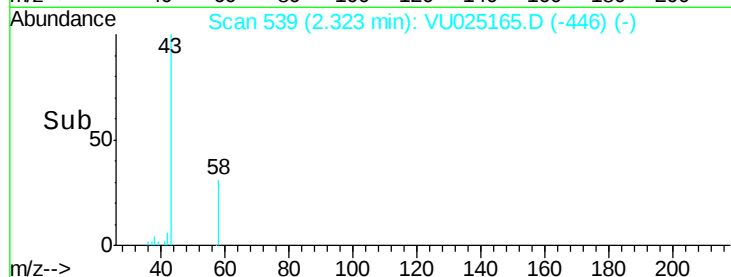
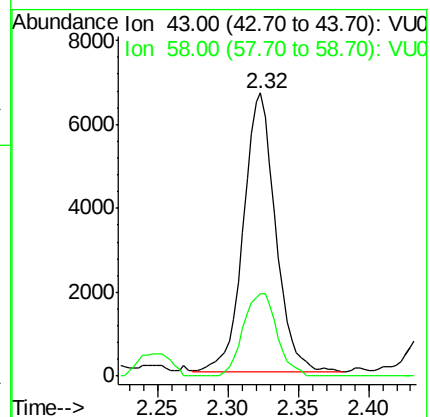
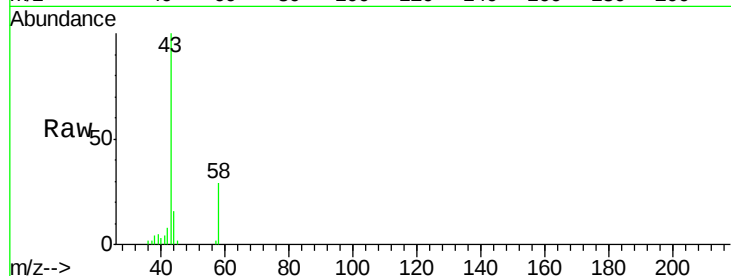
SUMP-062818

Tot Ion: 43 Resp: 10644

Ion Ratio Lower Upper

43 100

58 29.8 24.4 36.6



#18

Methyl Acetate

Concen: 0.373 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU025165.D

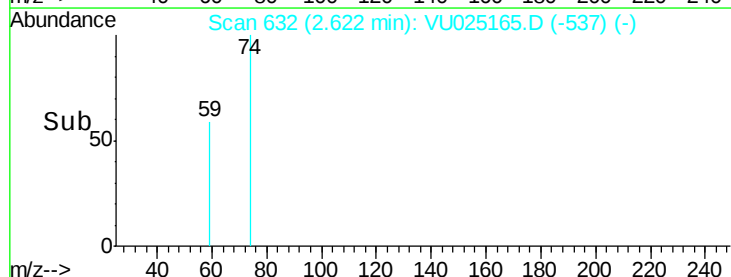
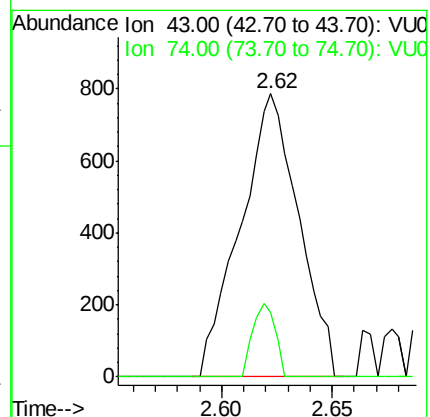
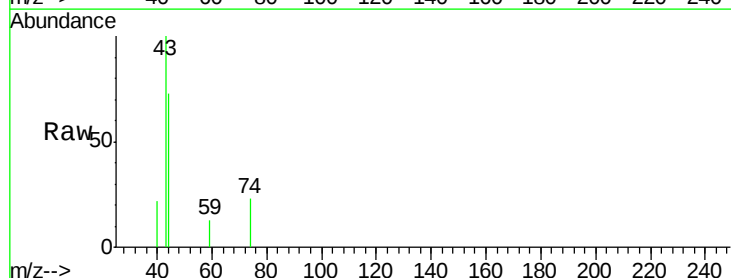
Acq: 03 Jul 2018 01:23

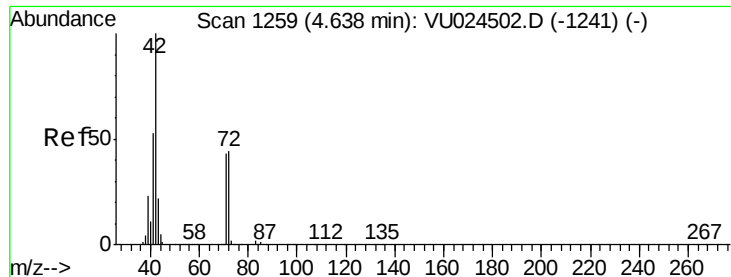
Tgt Ion: 43 Resp: 1440

Ion Ratio Lower Upper

43 100

74 10.1 18.0 27.0#





#29

Tetrahydrofuran

Concen: 2.352 ug/l

RT: 4.65 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

SUMP-062818

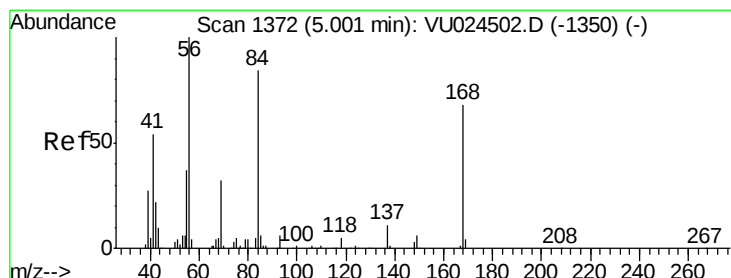
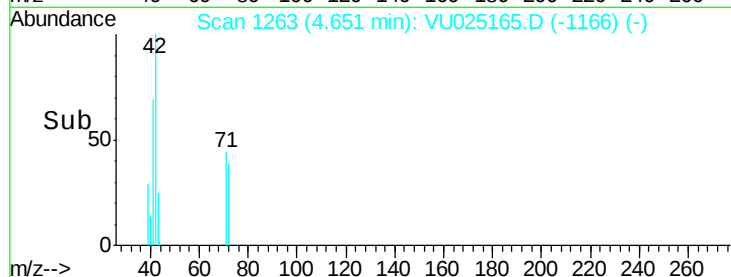
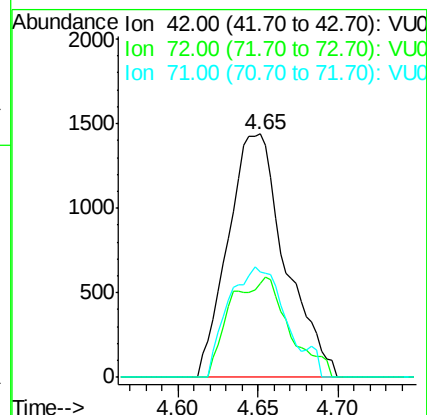
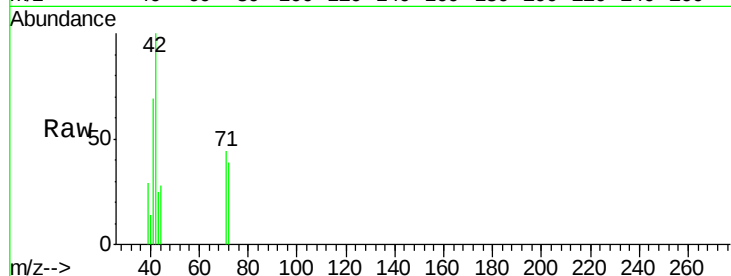
Tot Ion: 42 Resp: 3522

Ion Ratio Lower Upper

42 100

72 13.9 34.5 51.7#

71 43.2 32.2 48.4



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1367

Delta R.T. -0.02 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

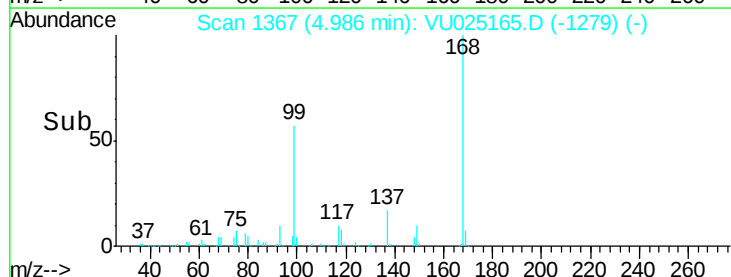
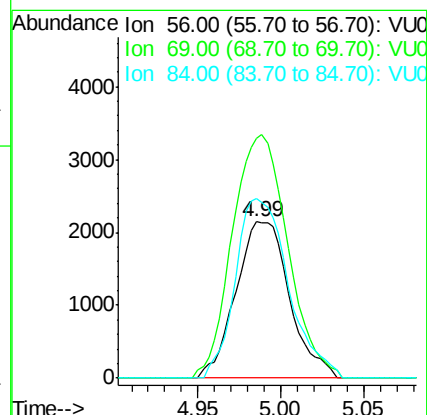
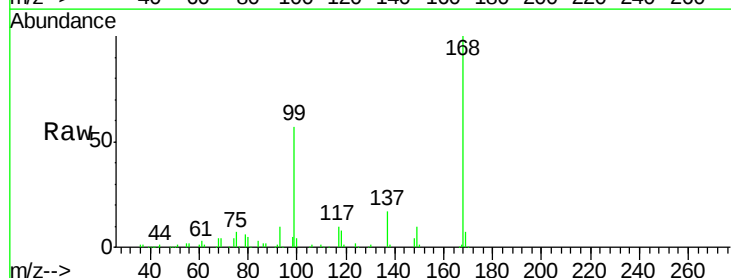
Tgt Ion: 56 Resp: 4833

Ion Ratio Lower Upper

56 100

69 153.5 24.8 37.2#

84 115.4 65.2 97.8#

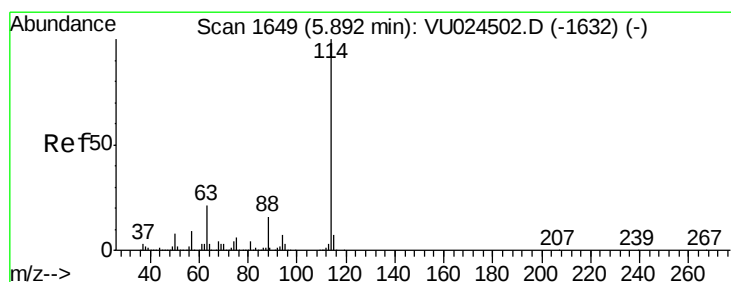
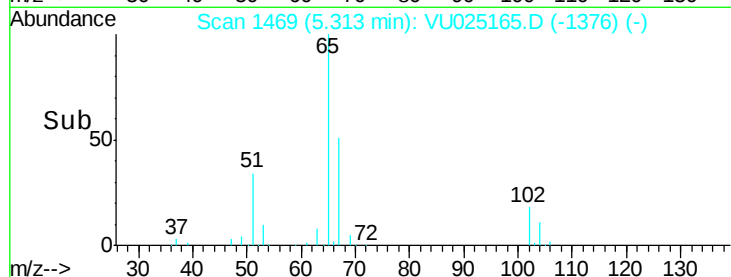
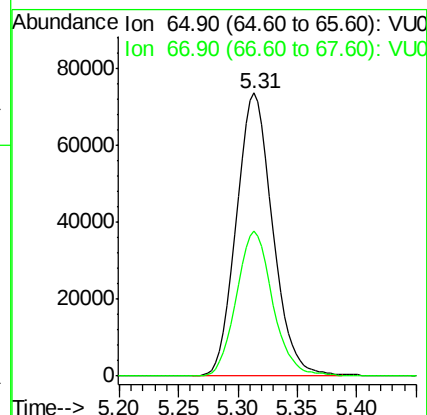
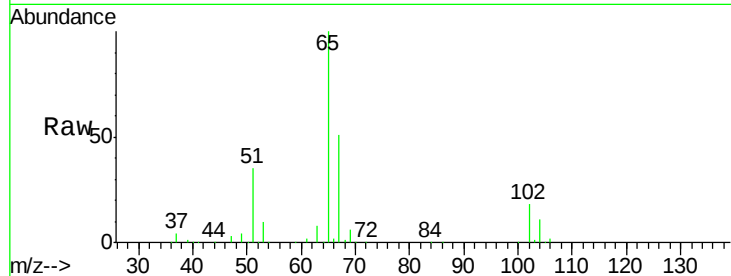




#33
 1,2-Dichloroethane-d4
 Concen: 46.488 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025165.D
 Acq: 03 Jul 2018 01:23

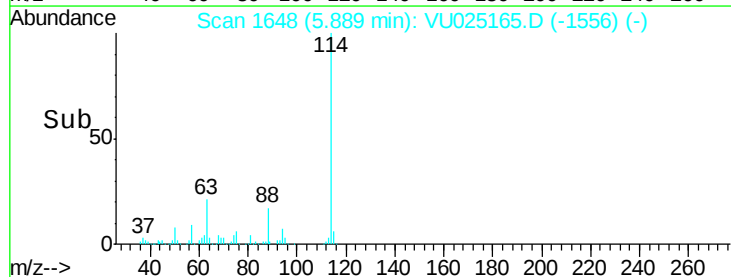
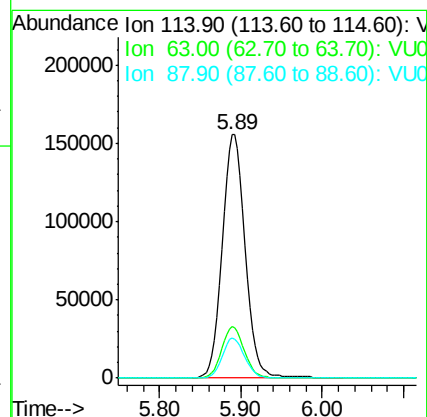
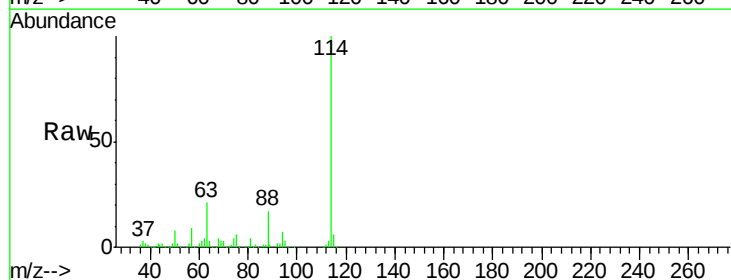
Instrument :
 MSVOA_U
 ClientSampleId :
 SUMP-062818

Tot Ion: 65 Resp: 155760
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU025165.D
 Acq: 03 Jul 2018 01:23

Tgt Ion: 114 Resp: 311253
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 45.4
 88 16.6 0.0 31.0





#35

Dibromofluoromethane

Concen: 46.891 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

SUMP-062818

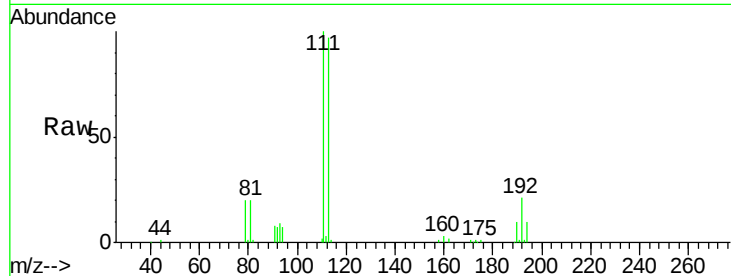
Tot Ion:113 Resp: 121126

Ion Ratio Lower Upper

113 100

111 102.0 82.2 123.4

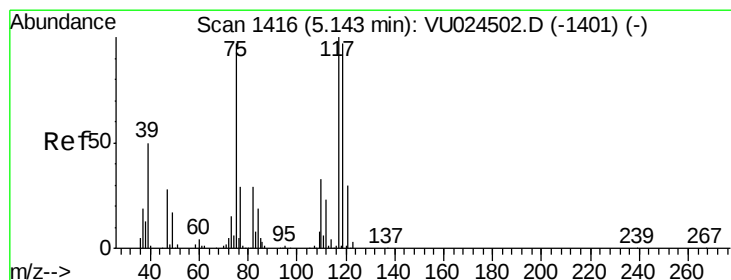
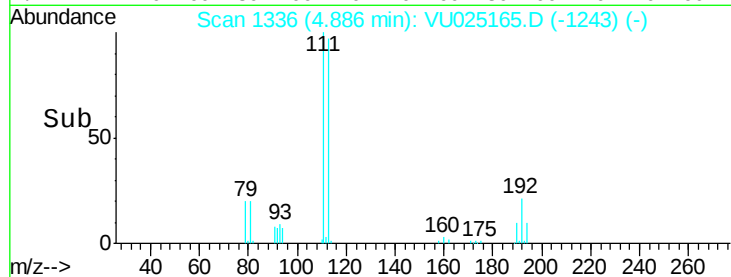
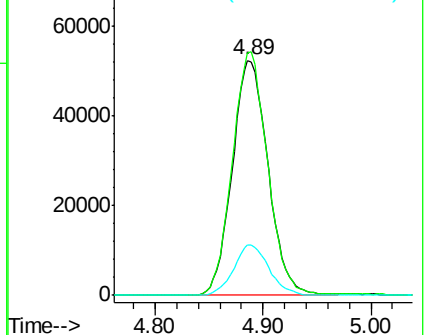
192 21.1 16.2 24.4



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: 4.046 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

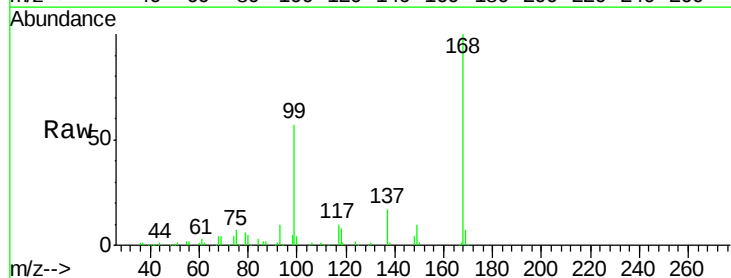
Tgt Ion: 75 Resp: 14799

Ion Ratio Lower Upper

75 100

110 9.8 17.0 50.9#

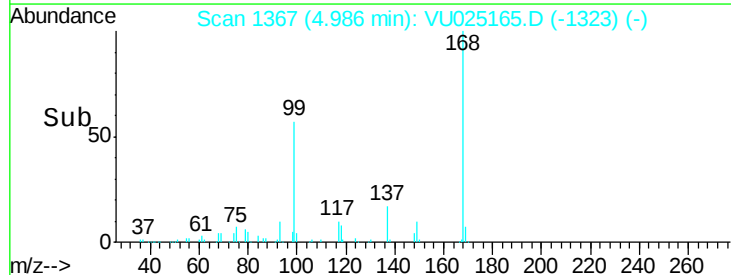
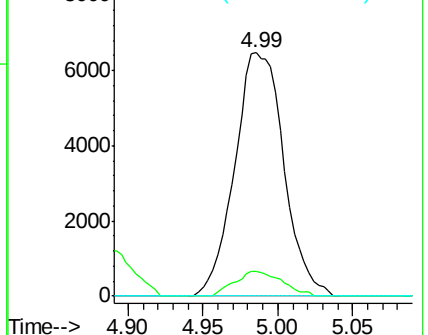
77 0.0 24.2 36.4#

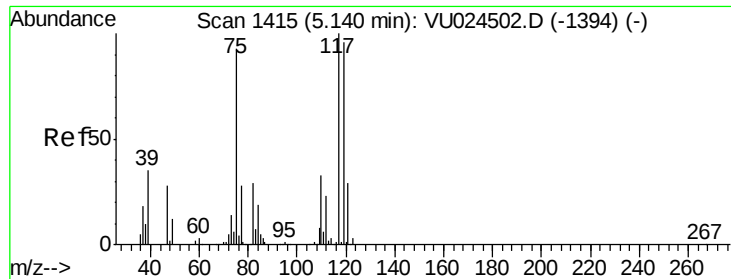


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.967 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

SUMP-062818

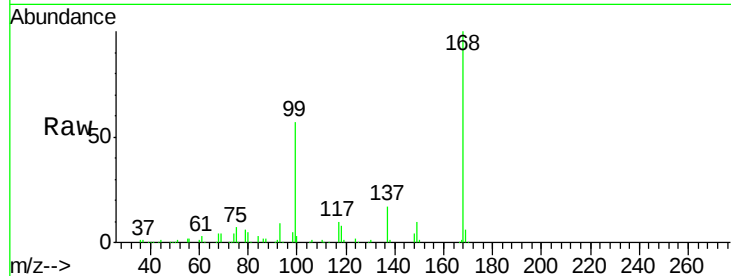
Tot Ion:117 Resp: 19978

Ion Ratio Lower Upper

117 100

119 5.3 76.1 114.1#

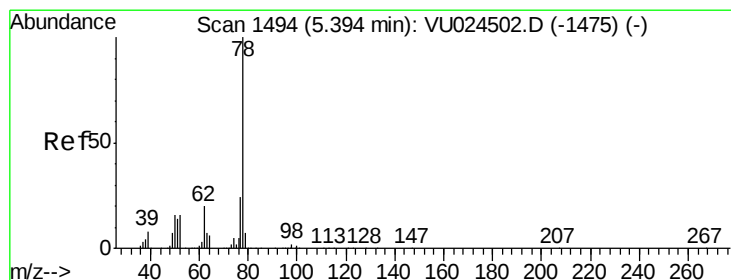
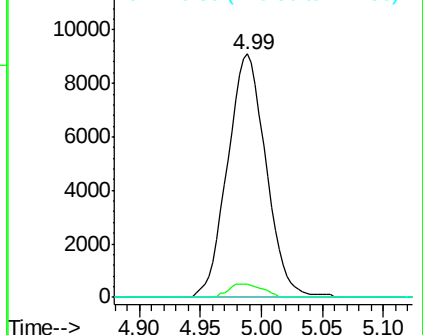
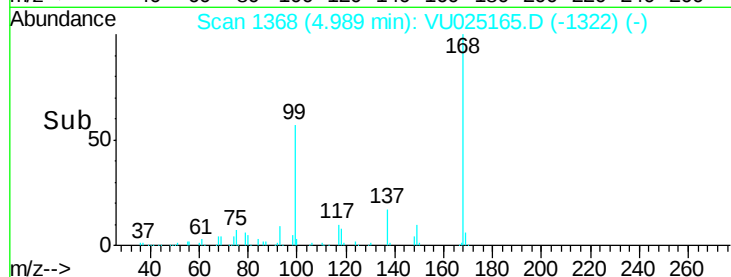
121 0.0 23.7 35.5#



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



#40

Benzene

Concen: 0.329 ug/l

RT: 5.40 min Scan# 1496

Delta R.T. 0.01 min

Lab File: VU025165.D

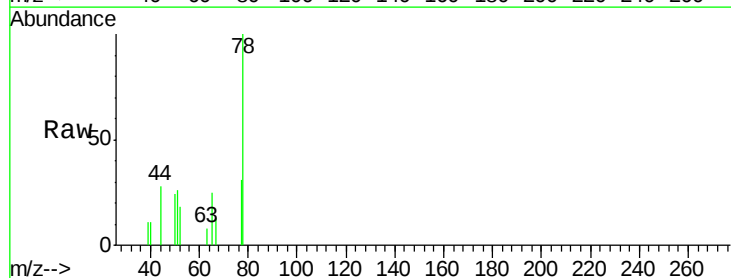
Acq: 03 Jul 2018 01:23

Tgt Ion: 78 Resp: 3433

Ion Ratio Lower Upper

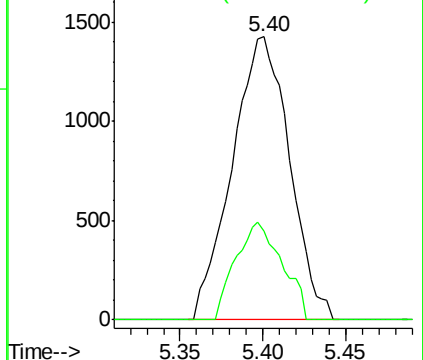
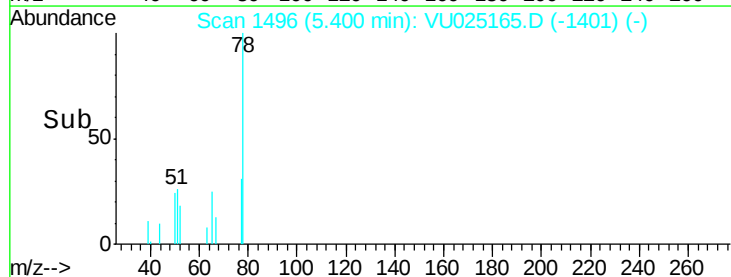
78 100

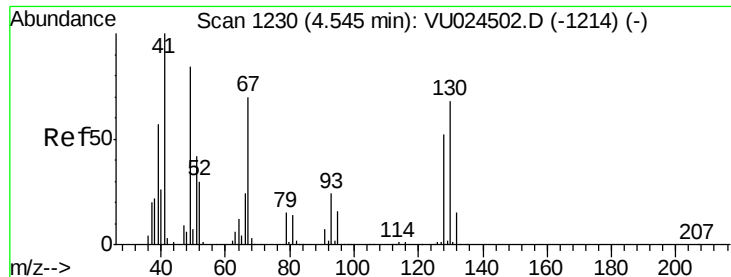
77 31.3 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0

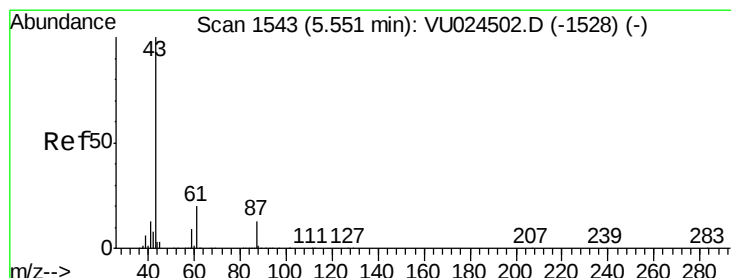
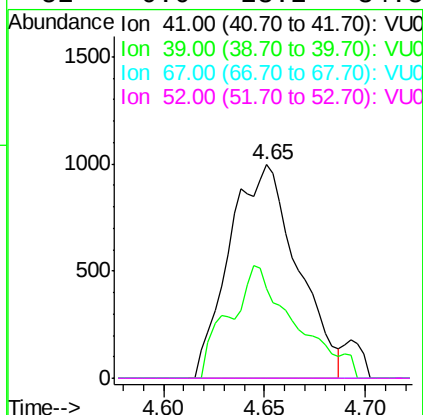
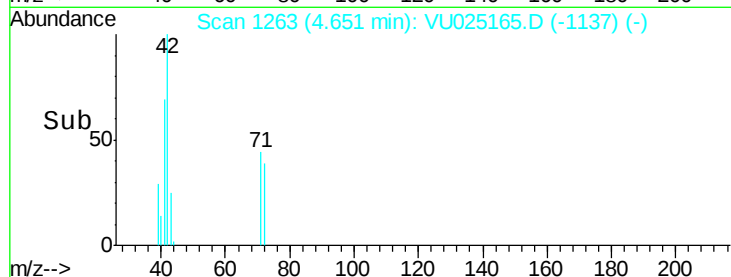
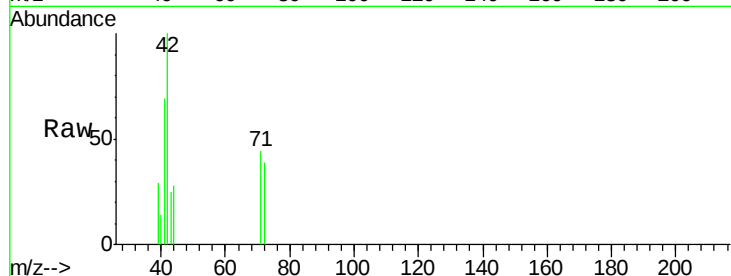




#41
Methacrylonitrile
Concen: 1.088 ug/l
RT: 4.65 min Scan# 1263
Delta R.T. 0.11 min
Lab File: VU025165.D
Acq: 03 Jul 2018 01:23

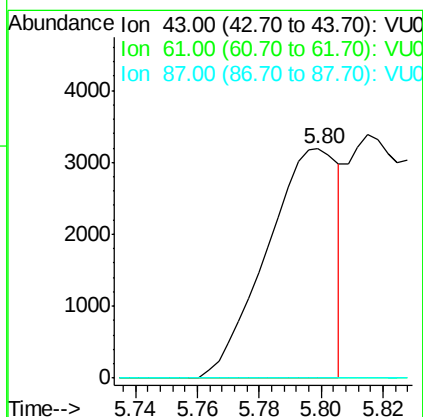
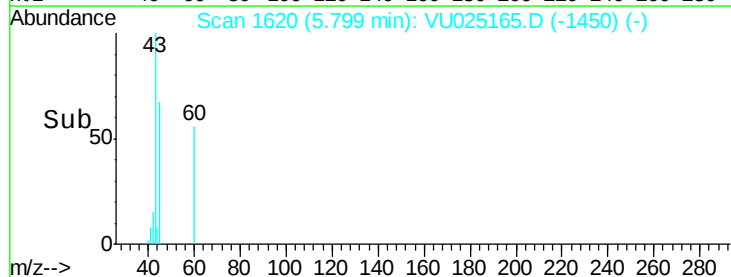
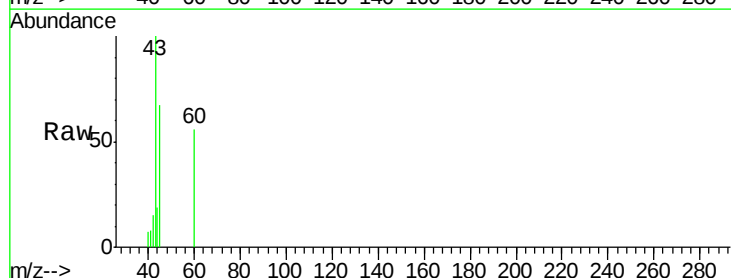
Instrument :
MSVOA_U
ClientSampleId :
SUMP-062818

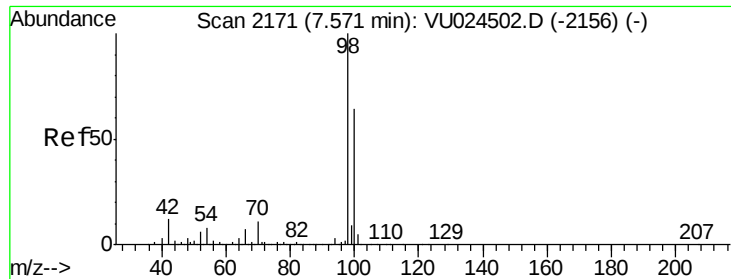
Tot Ion: 41 Resp: 2338
Ion Ratio Lower Upper
41 100
39 50.8 43.8 65.6
67 0.0 56.3 84.5#
52 0.0 23.2 34.8#



#43
Isopropyl Acetate
Concen: 0.738 ug/l
RT: 5.80 min Scan# 1620
Delta R.T. 0.25 min
Lab File: VU025165.D
Acq: 03 Jul 2018 01:23

Tgt Ion: 43 Resp: 5083
Ion Ratio Lower Upper
43 100
61 0.0 15.4 23.0#
87 0.0 10.0 15.0#





#50

Toluene-d8

Concen: 46.619 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

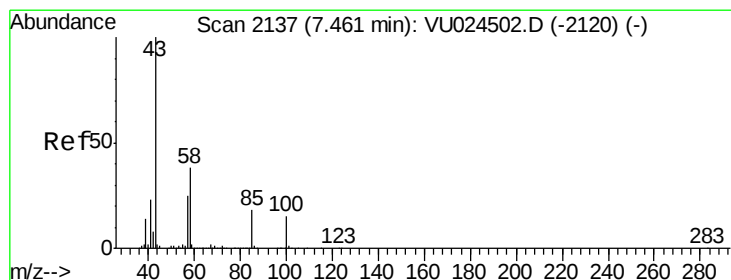
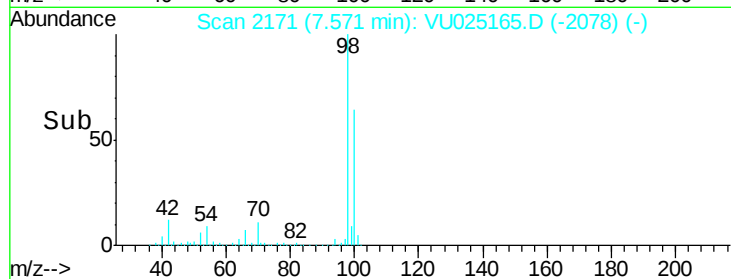
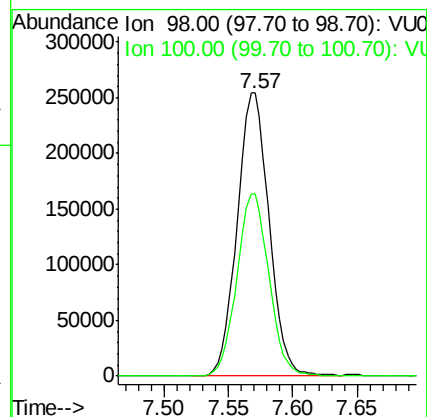
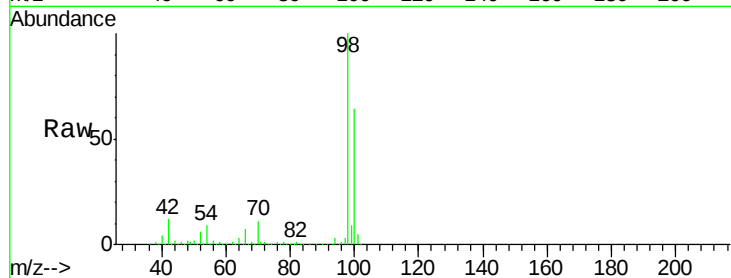
SUMP-062818

Tot Ion: 98 Resp: 439257

Ion Ratio Lower Upper

98 100

100 64.6 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.469 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU025165.D

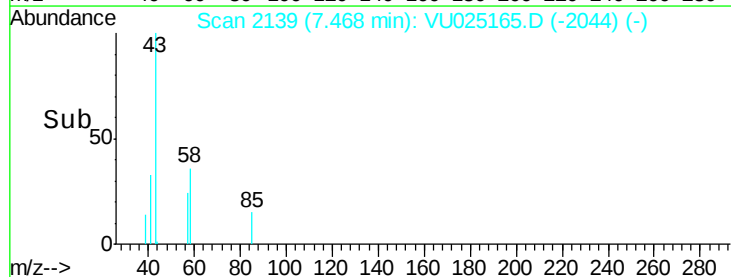
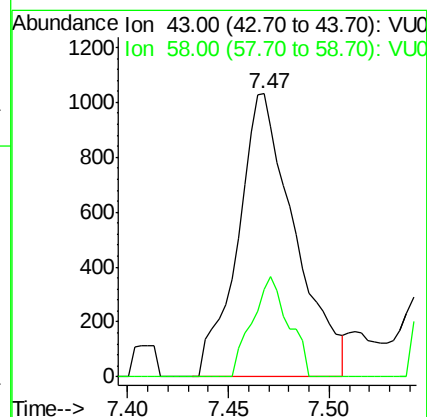
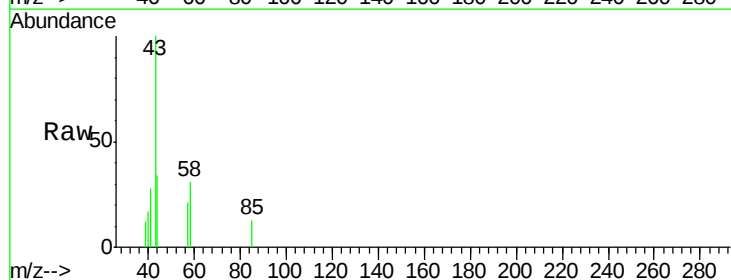
Acq: 03 Jul 2018 01:23

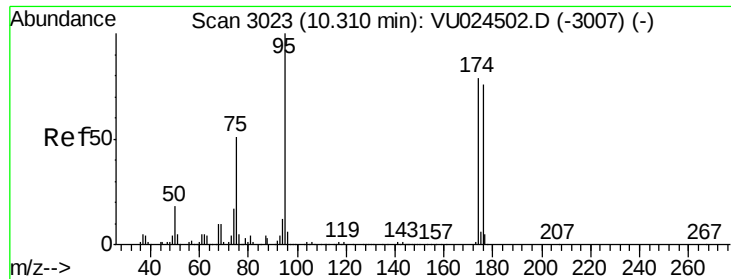
Tgt Ion: 43 Resp: 2030

Ion Ratio Lower Upper

43 100

58 22.9 30.0 45.0#





#62

4-Bromofluorobenzene

Concen: 43.498 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

SUMP-062818

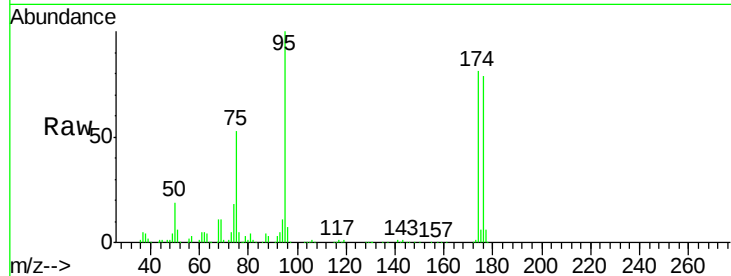
Tot Ion: 95 Resp: 162727

Ion Ratio Lower Upper

95 100

174 83.0 0.0 165.8

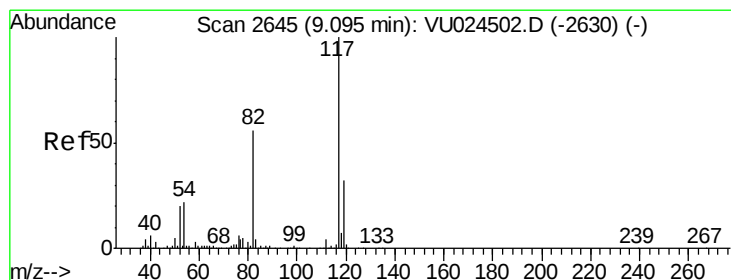
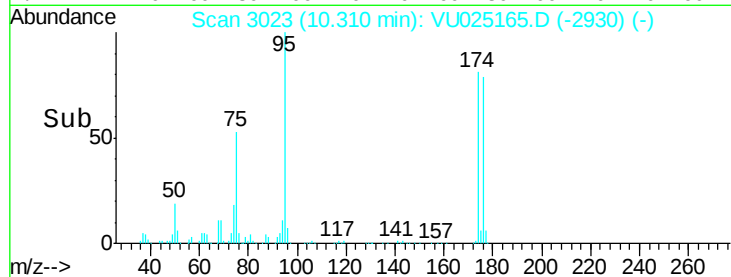
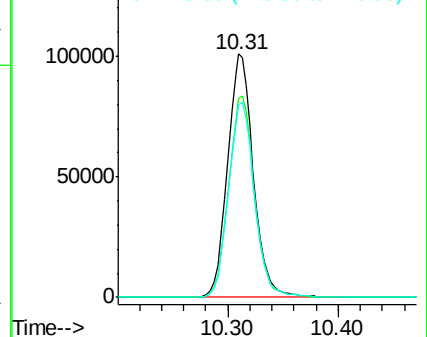
176 81.4 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU025165.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025165.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025165.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

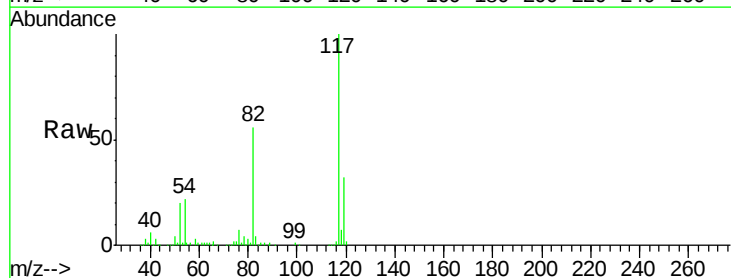
Tgt Ion: 117 Resp: 281809

Ion Ratio Lower Upper

117 100

82 56.3 44.3 66.5

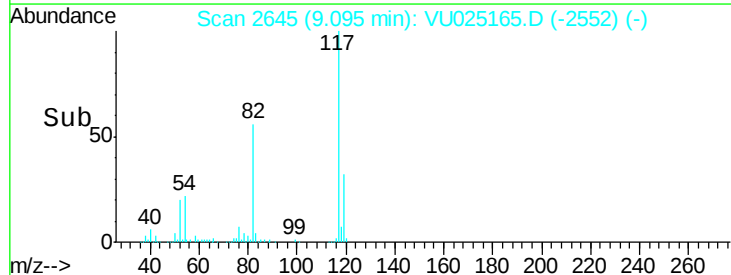
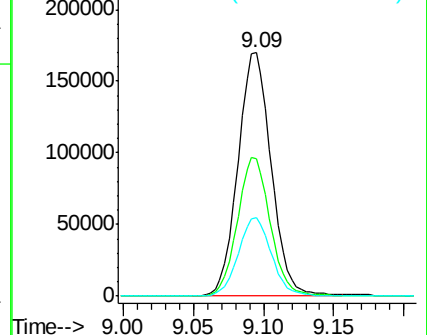
119 32.1 25.4 38.2

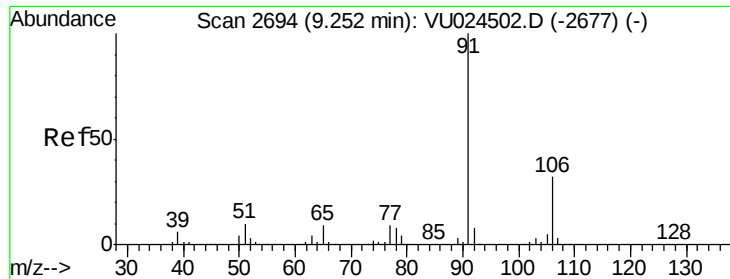


Abundance Ion 116.90 (116.60 to 117.60): VU025165.D (-2552) (-)

Ion 82.00 (81.70 to 82.70): VU025165.D (-2552) (-)

Ion 118.90 (118.60 to 119.60): VU025165.D (-2552) (-)

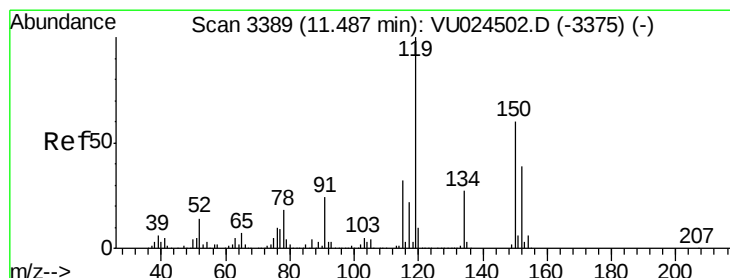
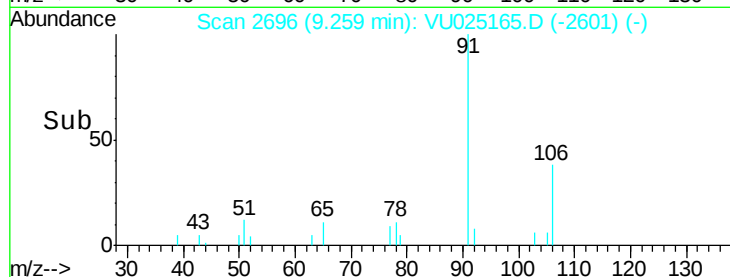
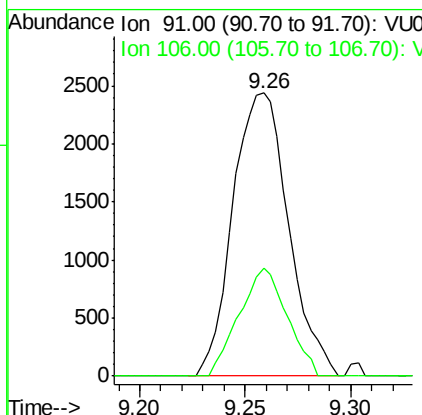
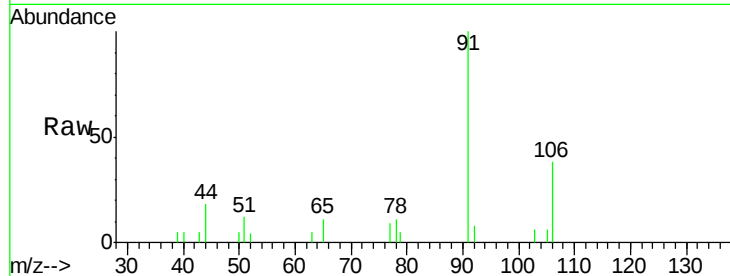




#67
 Ethyl Benzene
 Concen: 0.354 ug/l
 RT: 9.26 min Scan# 2696
 Delta R.T. 0.01 min
 Lab File: VU025165.D
 Acq: 03 Jul 2018 01:23

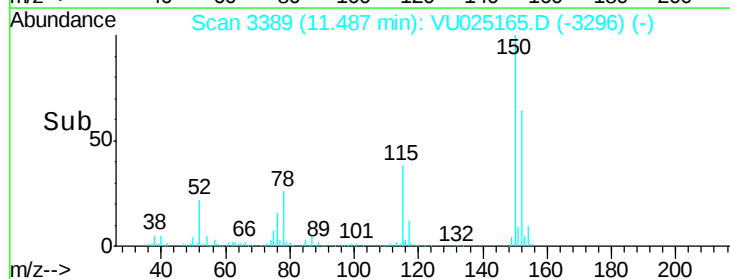
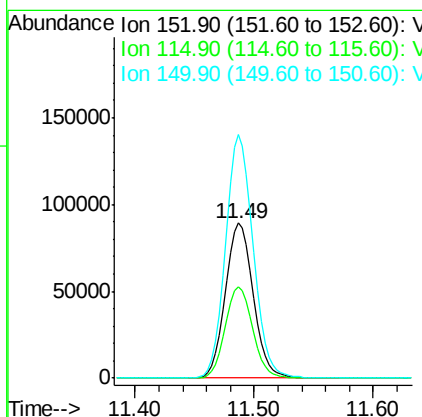
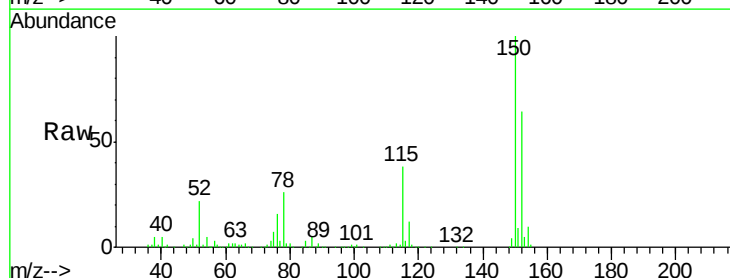
Instrument :
 MSVOA_U
 ClientSampleId :
 SUMP-062818

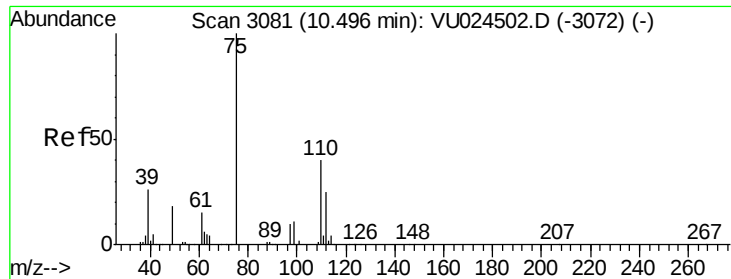
Tot Ion: 91 Resp: 4472
 Ion Ratio Lower Upper
 91 100
 106 38.1 24.2 36.4#



#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 11.49 min Scan# 3389
 Delta R.T. 0.00 min
 Lab File: VU025165.D
 Acq: 03 Jul 2018 01:23

Tgt Ion: 152 Resp: 145226
 Ion Ratio Lower Upper
 152 100
 115 58.1 43.0 129.0
 150 155.4 0.0 354.0

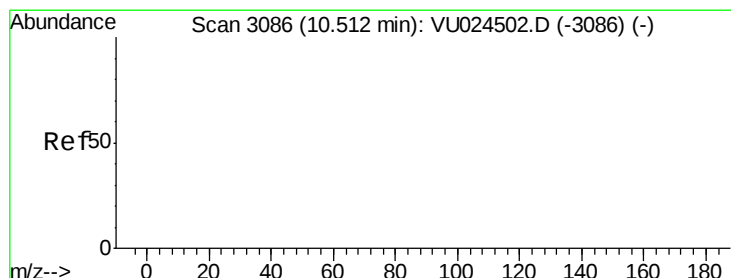
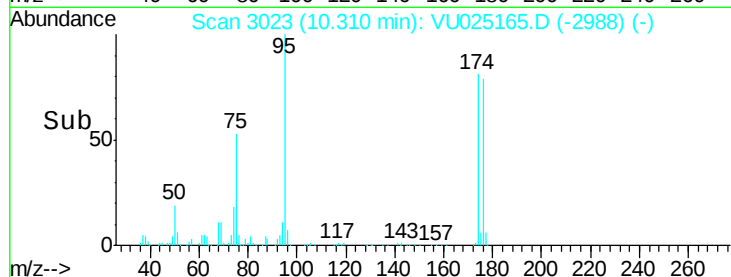
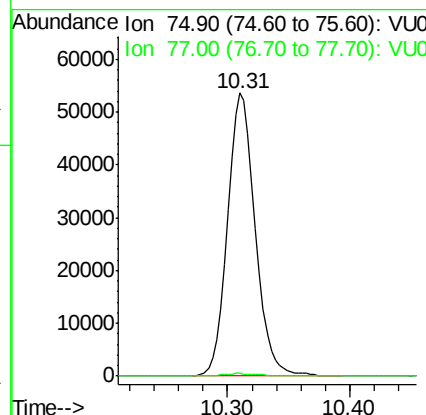
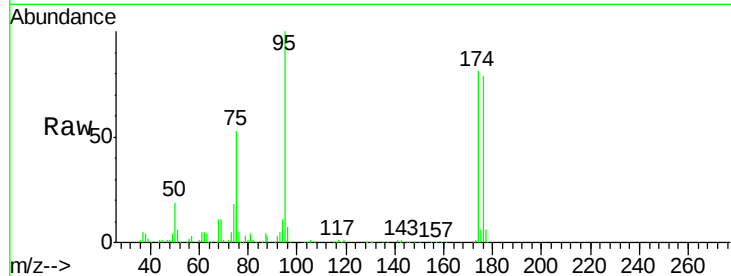




#76
 1,2,3-Trichloropropane
 Concen: 26.751 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU025165.D
 Acq: 03 Jul 2018 01:23

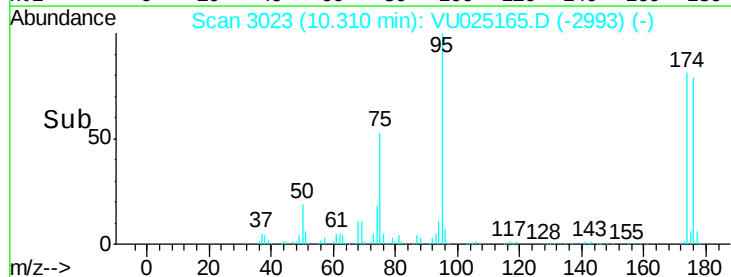
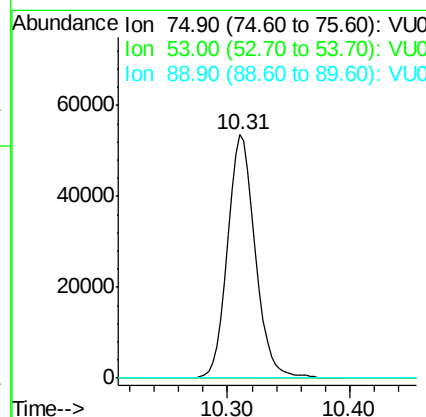
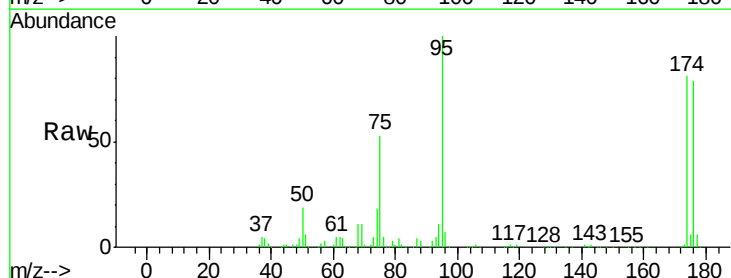
Instrument :
 MSVOA_U
 ClientSampleId :
 SUMP-062818

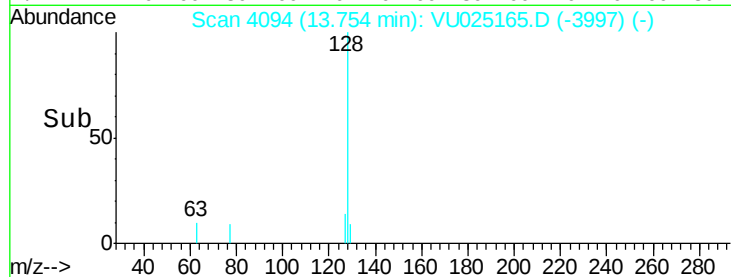
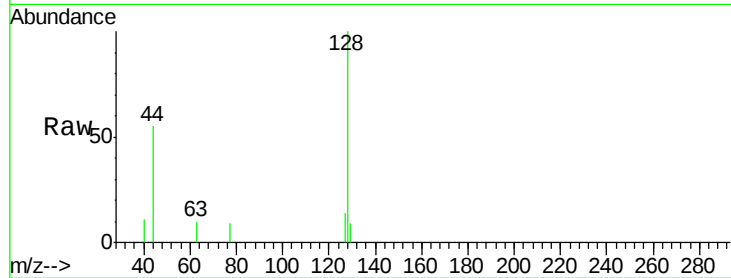
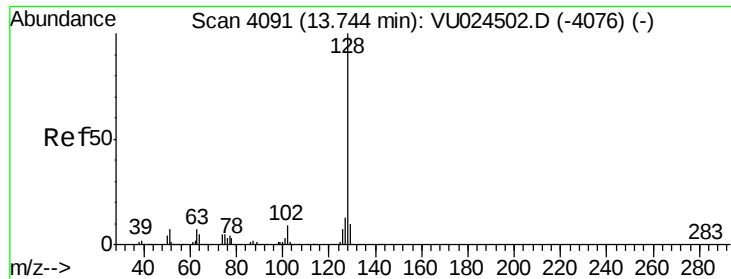
Tot Ion: 75 Resp: 85532
 Ion Ratio Lower Upper
 75 100
 77 1.0 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.913 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU025165.D
 Acq: 03 Jul 2018 01:23

Tgt Ion: 75 Resp: 85532
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 0.942 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU025165.D

Acq: 03 Jul 2018 01:23

Instrument :

MSVOA_U

ClientSampleId :

SUMP-062818

Tot Ion:128 Resp: 2844

Ion Ratio Lower Upper

128 100

127 6.8 10.6 16.0#

129 3.5 8.6 12.8#

