

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070318\
 Data File : VU025192.D
 Acq On : 03 Jul 2018 15:41
 Operator : MD/SY
 Sample : J3790-02
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ZER-WC-L-01

Quant Time: Jul 04 04:58:49 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	206321	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	306868	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	277995	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	145448	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	155639	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
35) Dibromofluoromethane	4.89	113	120553	47.34	ug/l	0.00
Spiked Amount			Recovery	=	94.68%	
50) Toluene-d8	7.57	98	435143	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
62) 4-Bromofluorobenzene	10.31	95	161735	43.85	ug/l	0.00
Spiked Amount			Recovery	=	87.70%	

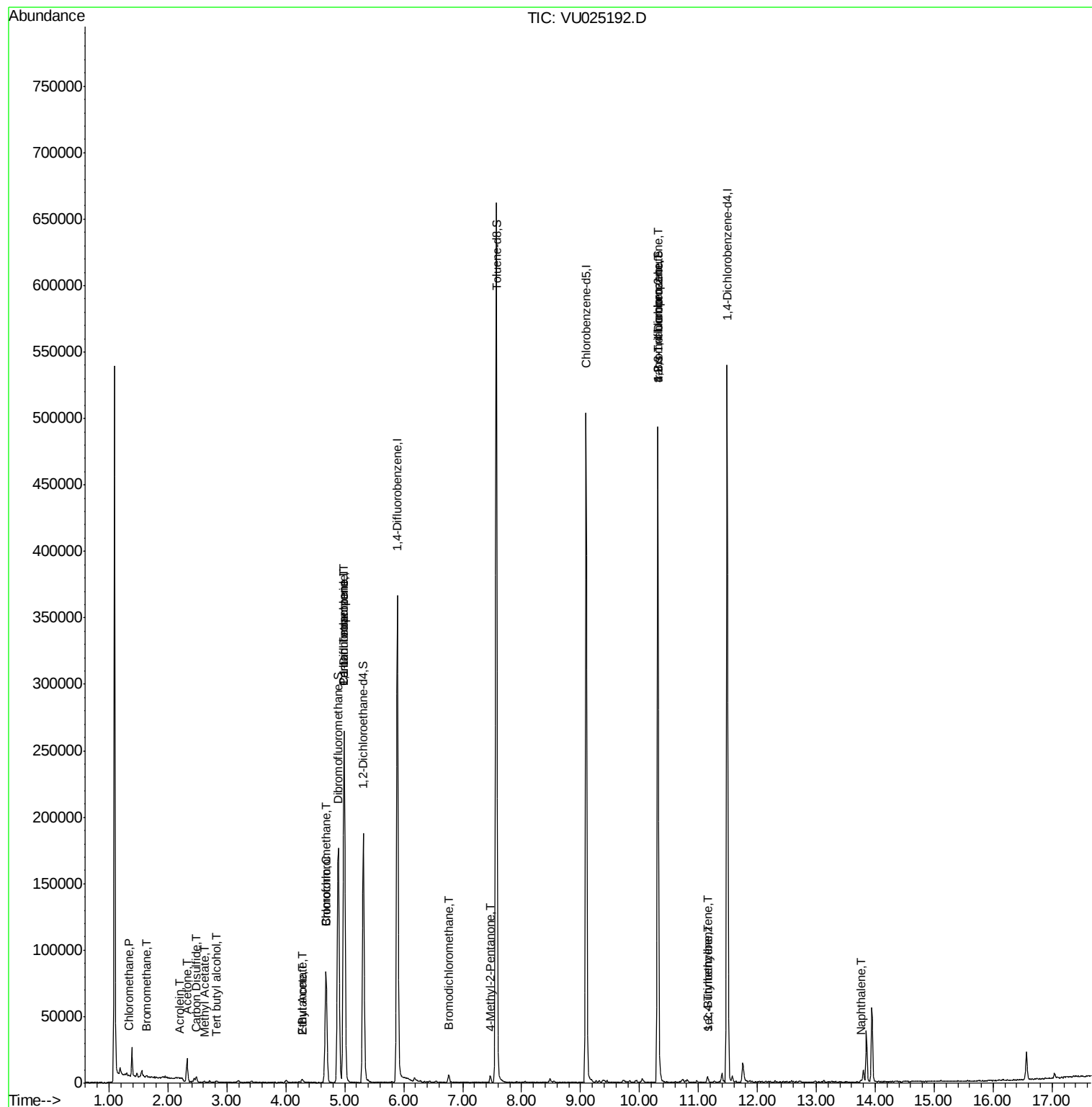
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	703	0.266	ug/l	98
5) Bromomethane	1.64	94	364	0.277	ug/l #	72
6) Chloroethane	1.70	64	142	Below Cal	#	43
11) Tert butyl alcohol	2.82	59	1109	1.354	ug/l #	72
13) Acrolein	2.20	56	199	0.463	ug/l #	1
16) Acetone	2.32	43	18212	10.063	ug/l	97
17) Carbon Disulfide	2.48	76	4794	0.637	ug/l	95
18) Methyl Acetate	2.62	43	870	0.224	ug/l #	53
25) 2-Butanone	4.27	43	4308	1.772	ug/l	96
28) Bromochloromethane	4.68	49	6665	3.042	ug/l #	16
30) Chloroform	4.68	83	79217	15.734	ug/l	97
31) Cyclohexane	4.99	56	4306	Below Cal	#	6
36) 1,1-Dichloropropene	4.99	75	14752	4.091	ug/l #	50
37) Ethyl Acetate	4.27	43	4308	1.096	ug/l #	70
38) Carbon Tetrachloride	4.99	117	19860	5.008	ug/l #	16
47) Bromodichloromethane	6.76	83	4330	1.129	ug/l #	87
51) 4-Methyl-2-Pentanone	7.47	43	3856	0.903	ug/l	100
76) 1,2,3-Trichloropropane	10.31	75	84286	26.321	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	84286	60.918	ug/l #	100
84) 1,2,4-Trimethylbenzene	11.16	105	3093	0.314	ug/l	88
85) sec-Butylbenzene	11.16	105	3093	0.265	ug/l #	57
95) Naphthalene	13.75	128	2104	0.873	ug/l #	81

(#) = 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: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

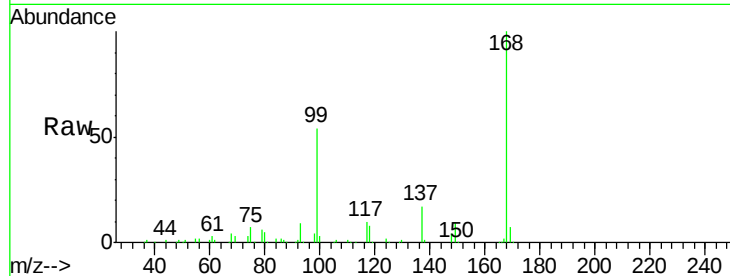
ZER-WC-L-01

Tot Ion:168 Resp: 206321

Ion Ratio Lower Upper

168 100

99 53.7 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

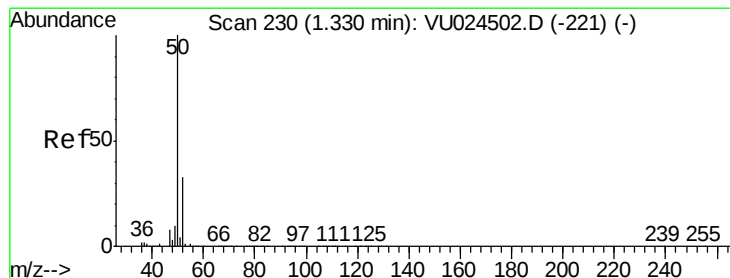
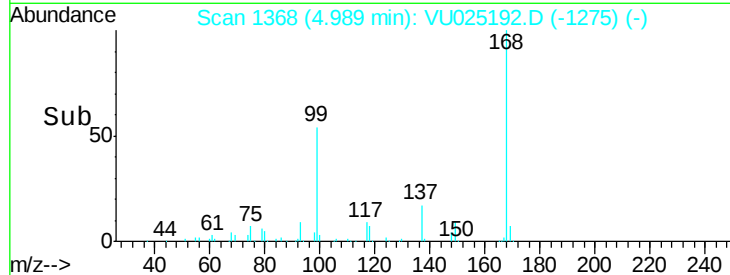
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.266 ug/l

RT: 1.33 min Scan# 231

Delta R.T. 0.00 min

Lab File: VU025192.D

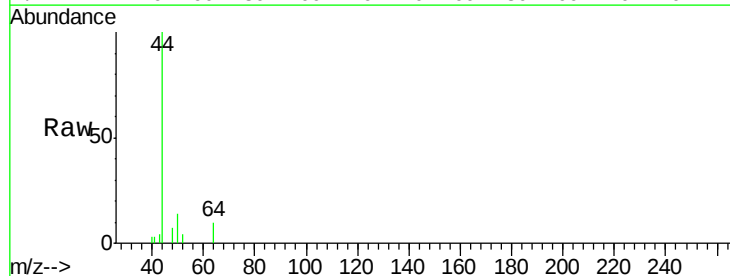
Acq: 03 Jul 2018 15:41

Tgt Ion: 50 Resp: 703

Ion Ratio Lower Upper

50 100

52 31.7 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

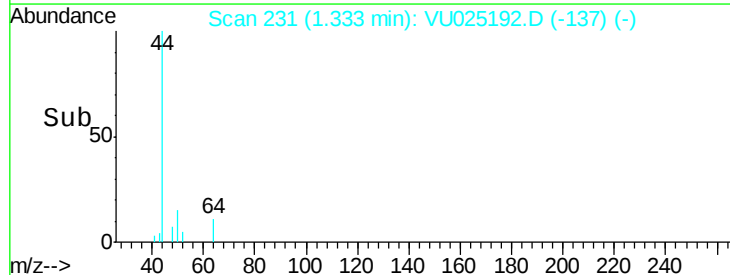
600

400

200

0

Time-->





#5

Bromomethane

Concen: 0.277 ug/l

RT: 1.64 min Scan# 328

Delta R.T. 0.02 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

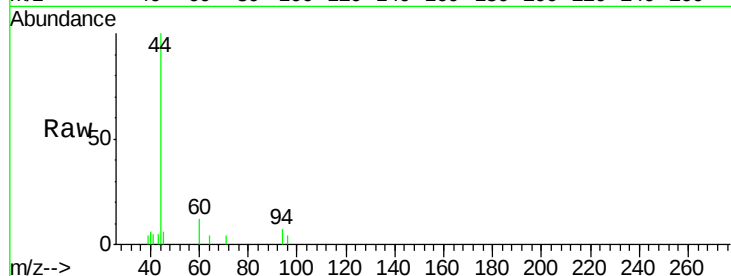
ZER-WC-L-01

Tot Ion: 94 Resp: 364

Ion Ratio Lower Upper

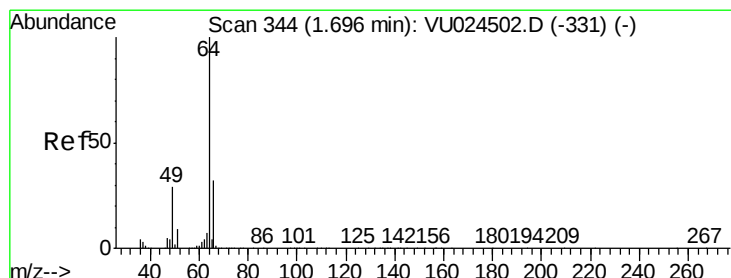
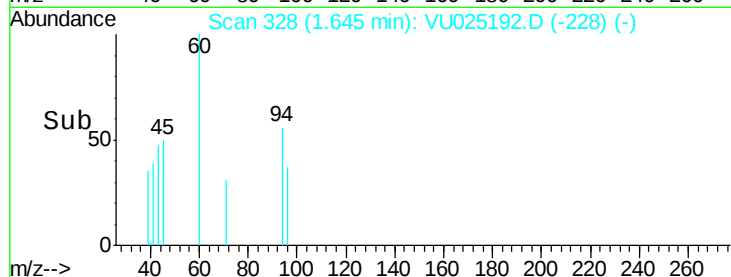
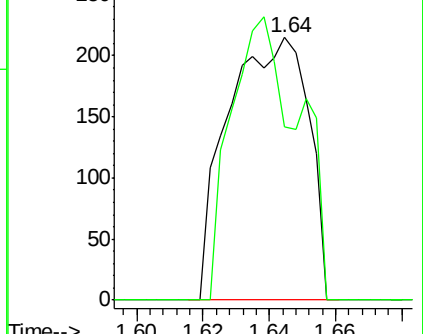
94 100

96 66.0 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 345

Delta R.T. 0.00 min

Lab File: VU025192.D

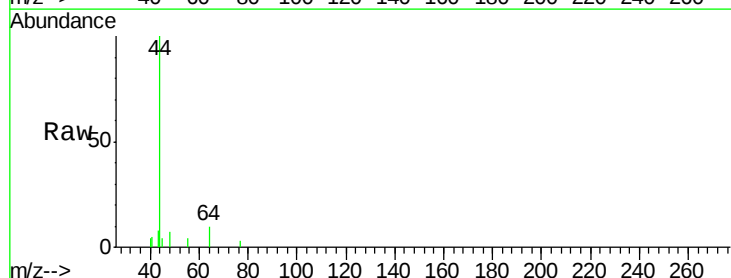
Acq: 03 Jul 2018 15:41

Tgt Ion: 64 Resp: 142

Ion Ratio Lower Upper

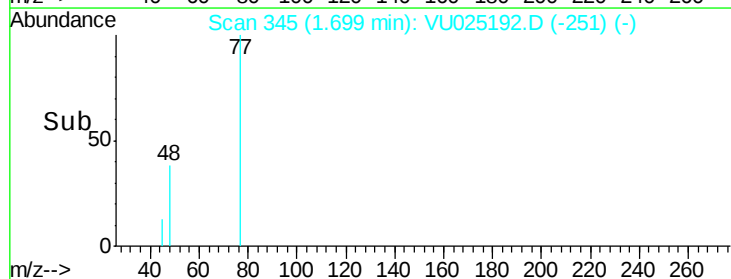
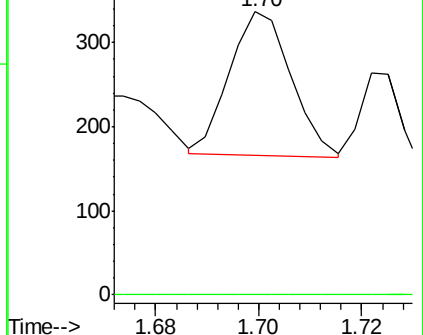
64 100

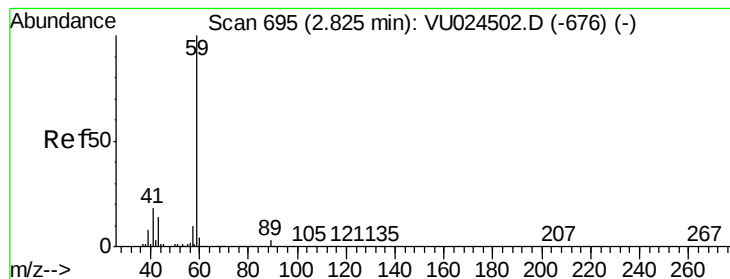
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0



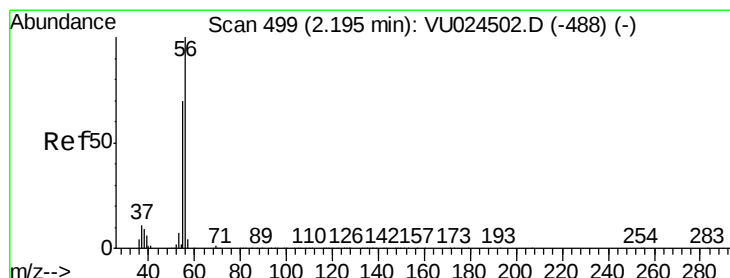
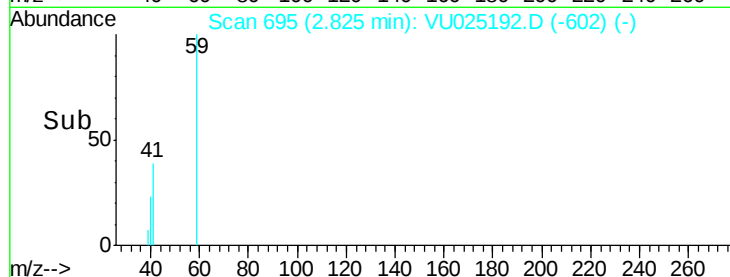
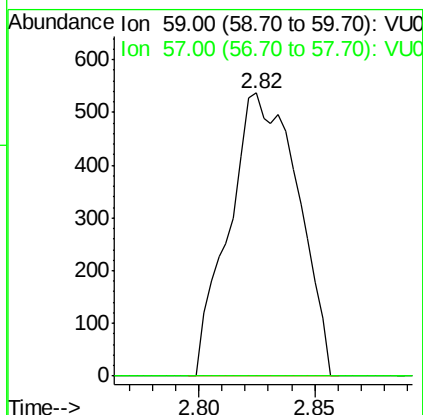
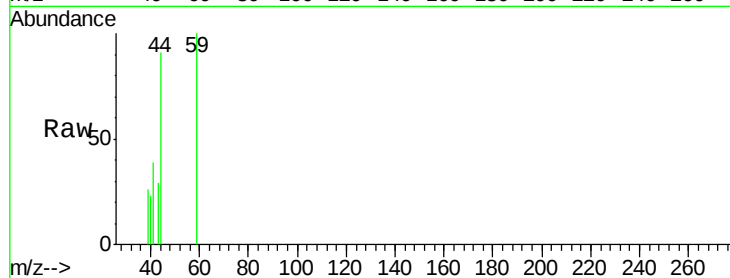


#11

Tert butyl alcohol
 Concen: 1.354 ug/l
 RT: 2.82 min Scan# 695
 Delta R.T. -0.00 min
 Lab File: VU025192.D
 Acq: 03 Jul 2018 15:41

Instrument :
 MSVOA_U
 ClientSampleId :
 ZER-WC-L-01

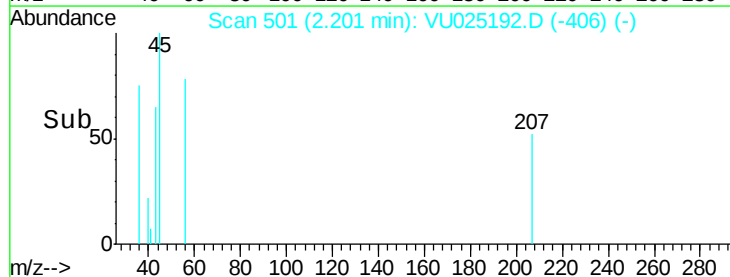
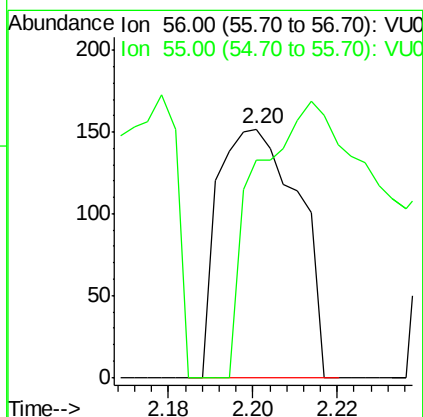
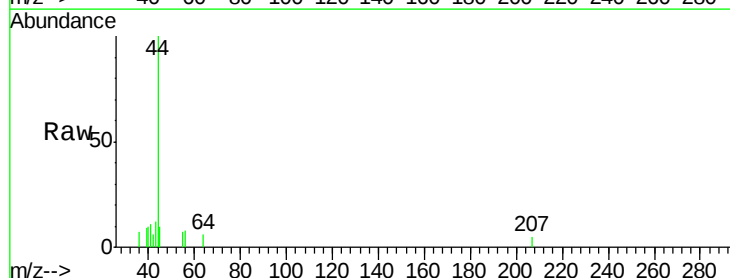
Tot Ion: 59 Resp: 1109
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

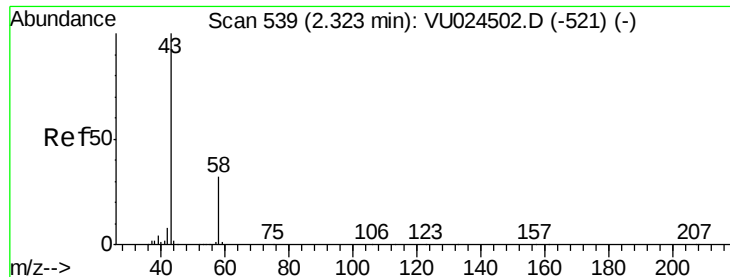


#13

Acrolein
 Concen: 0.463 ug/l
 RT: 2.20 min Scan# 501
 Delta R.T. 0.01 min
 Lab File: VU025192.D
 Acq: 03 Jul 2018 15:41

Tgt Ion: 56 Resp: 199
 Ion Ratio Lower Upper
 56 100
 55 189.9 58.4 87.6#





#16

Acetone

Concen: 10.063 ug/l

RT: 2.32 min Scan# 539

Delta R.T. -0.00 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

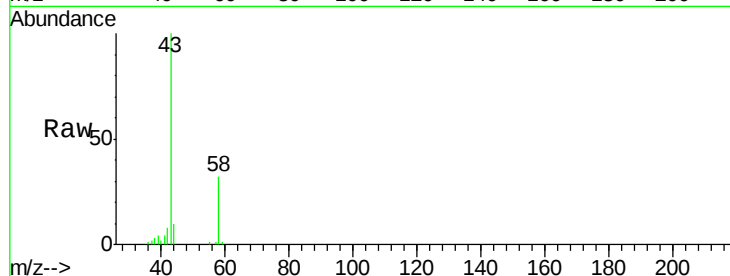
ZER-WC-L-01

Tot Ion: 43 Resp: 18212

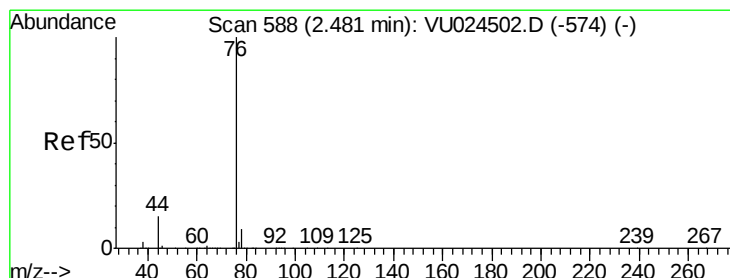
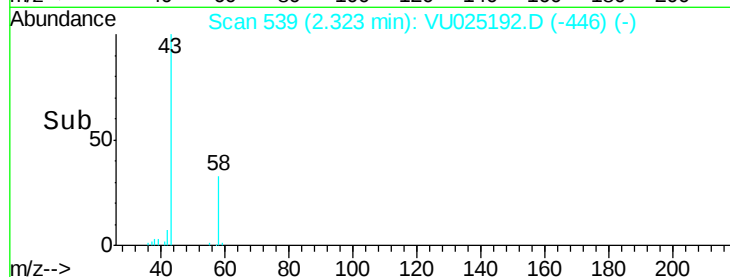
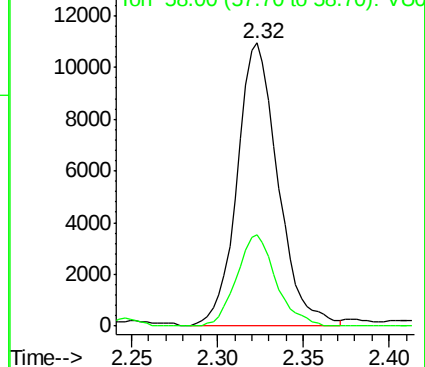
Ion Ratio Lower Upper

43 100

58 32.1 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU025192.D (-446) (-)



#17

Carbon Disulfide

Concen: 0.637 ug/l

RT: 2.48 min Scan# 588

Delta R.T. -0.00 min

Lab File: VU025192.D

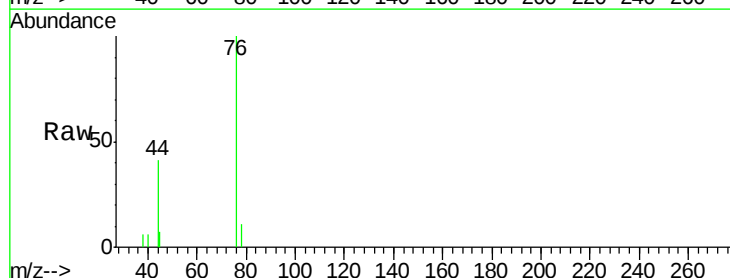
Acq: 03 Jul 2018 15:41

Tgt Ion: 76 Resp: 4794

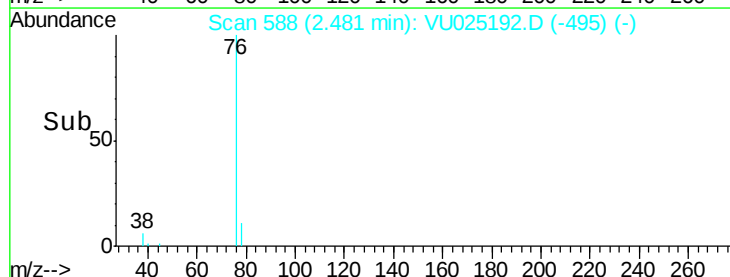
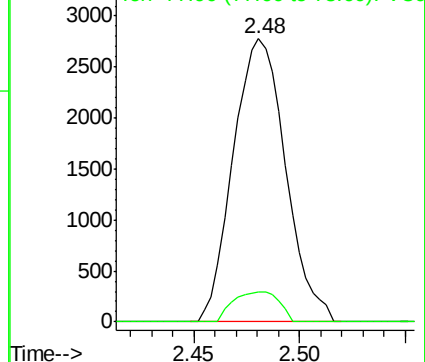
Ion Ratio Lower Upper

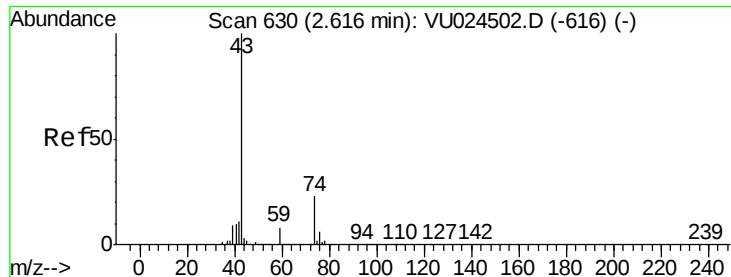
76 100

78 10.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VU025192.D (-495) (-)





#18

Methyl Acetate

Concen: 0.224 ug/l

RT: 2.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

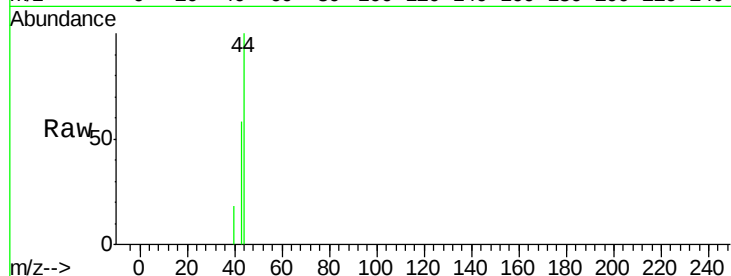
ZER-WC-L-01

Tot Ion: 43 Resp: 870

Ion Ratio Lower Upper

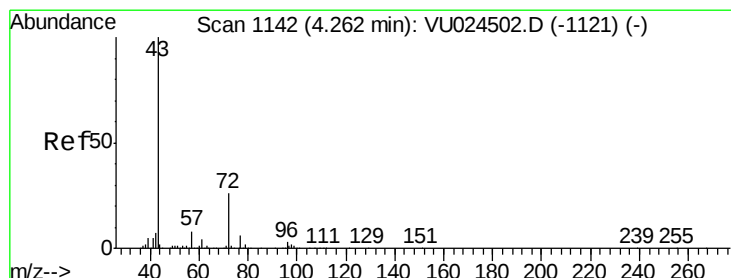
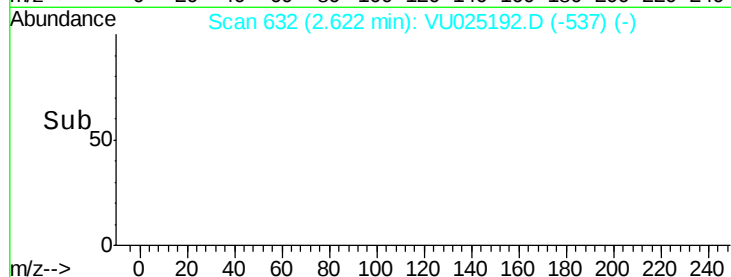
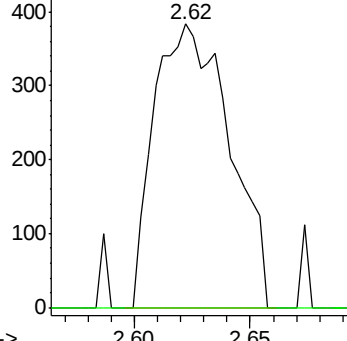
43 100

74 0.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#25

2-Butanone

Concen: 1.772 ug/l

RT: 4.27 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VU025192.D

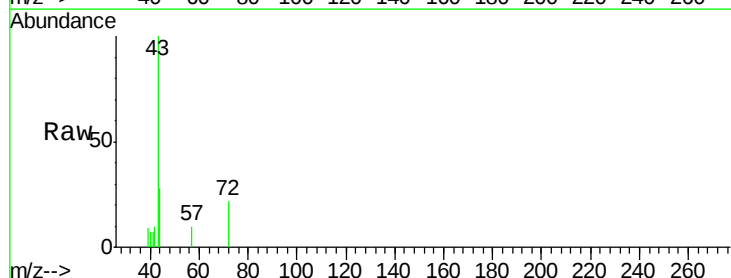
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Tgt Ion: 43 Resp: 4308

Ion Ratio Lower Upper

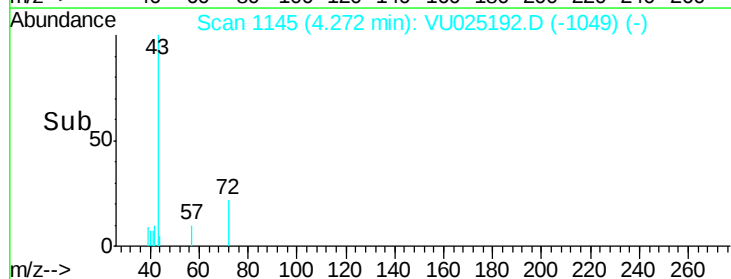
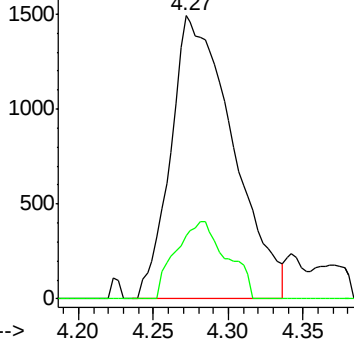
43 100

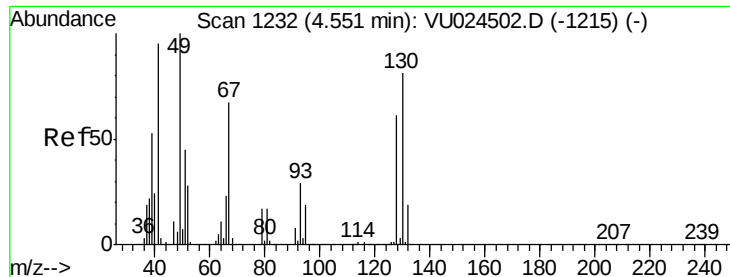
72 22.3 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 72.00 (71.70 to 72.70): VU0

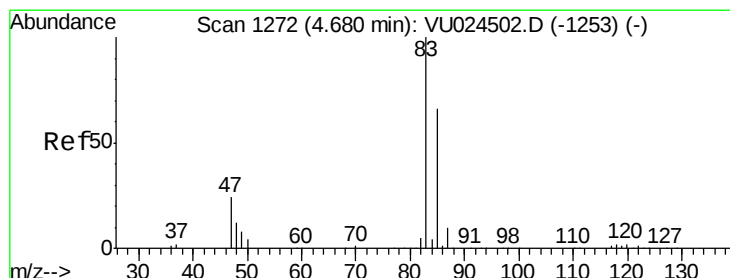
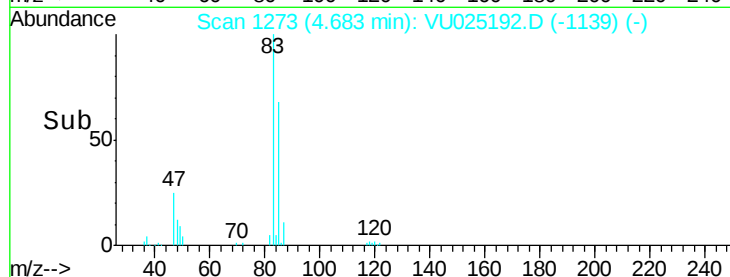
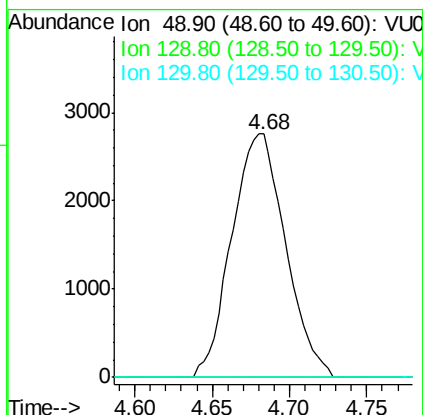
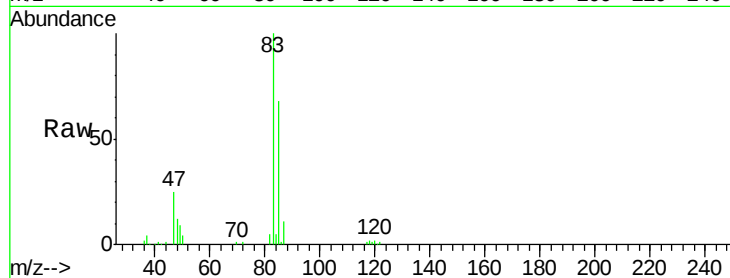




#28
Bromochloromethane
Concen: 3.042 ug/l
RT: 4.68 min Scan# 1273
Delta R.T. 0.13 min
Lab File: VU025192.D
Acq: 03 Jul 2018 15:41

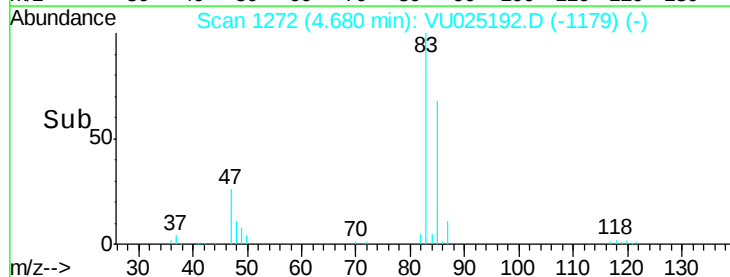
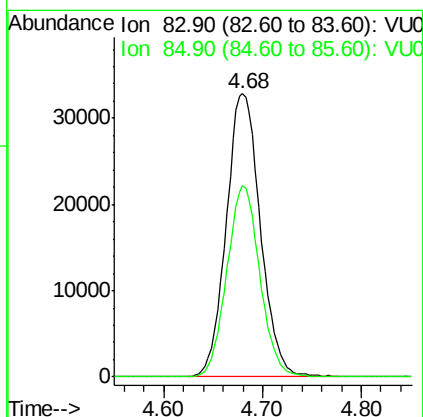
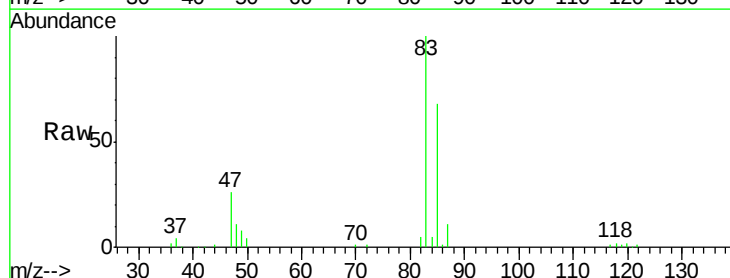
Instrument :
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ZER-WC-L-01

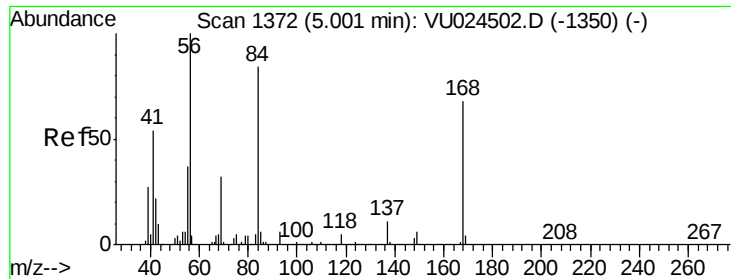
Tot Ion: 49 Resp: 6665
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 57.8 86.6#



#30
Chloroform
Concen: 15.734 ug/l
RT: 4.68 min Scan# 1272
Delta R.T. -0.00 min
Lab File: VU025192.D
Acq: 03 Jul 2018 15:41

Tgt Ion: 83 Resp: 79217
Ion Ratio Lower Upper
83 100
85 67.5 52.4 78.6

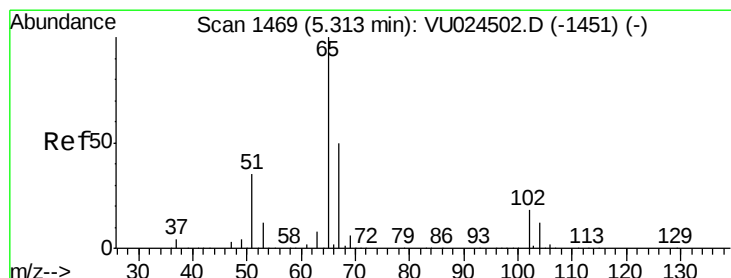
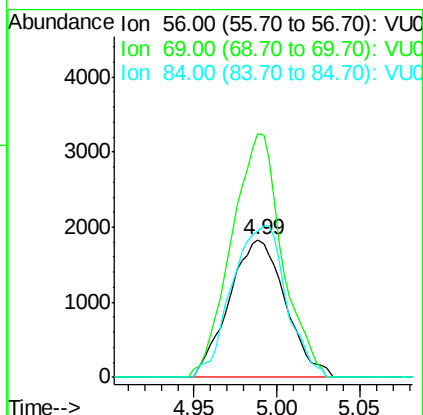
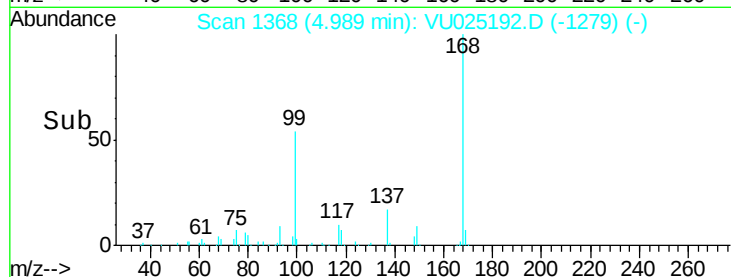
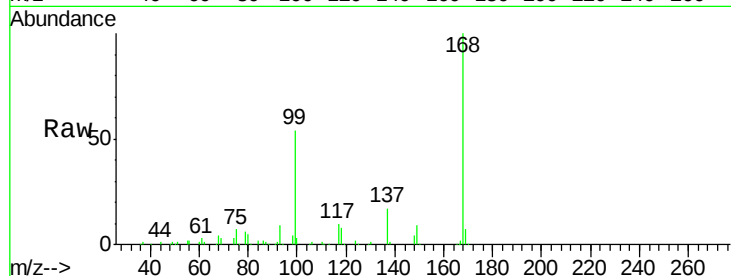




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU025192.D
Acq: 03 Jul 2018 15:41

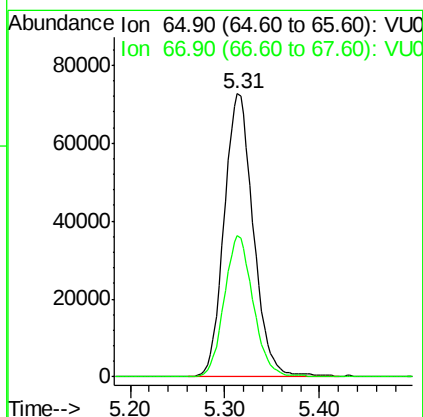
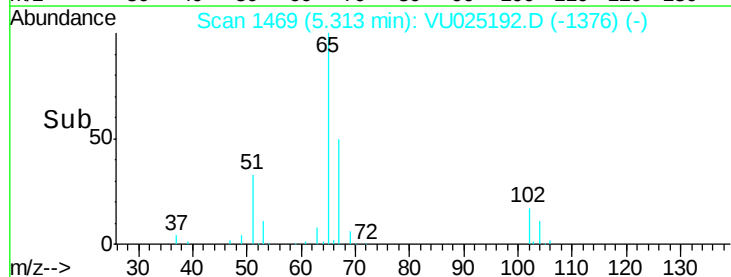
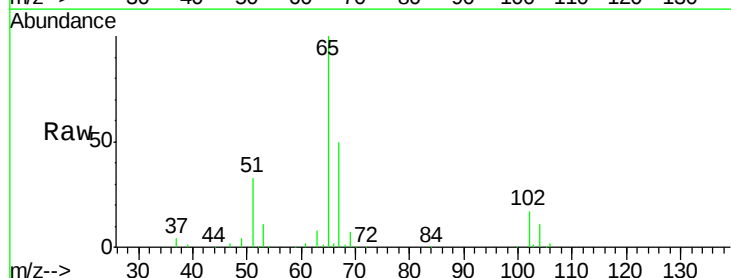
Instrument :
MSVOA_U
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ZER-WC-L-01

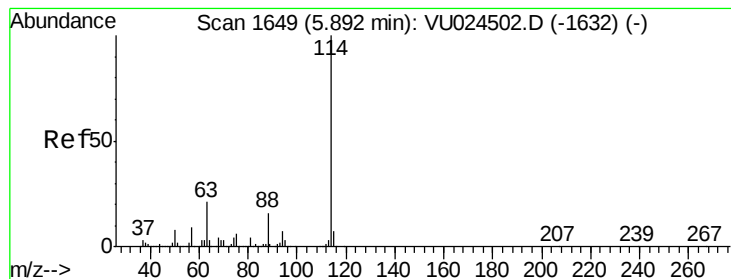
Tot Ion: 56 Resp: 4306
Ion Ratio Lower Upper
56 100
69 177.1 24.8 37.2#
84 106.9 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 46.208 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VU025192.D
Acq: 03 Jul 2018 15:41

Tgt Ion: 65 Resp: 155639
Ion Ratio Lower Upper
65 100
67 49.4 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: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-L-01

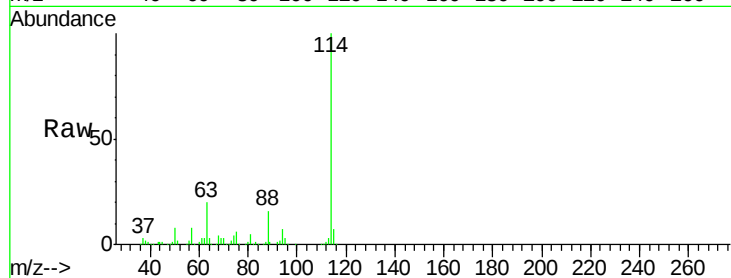
Tot Ion:114 Resp: 306868

Ion Ratio Lower Upper

114 100

63 20.3 0.0 45.4

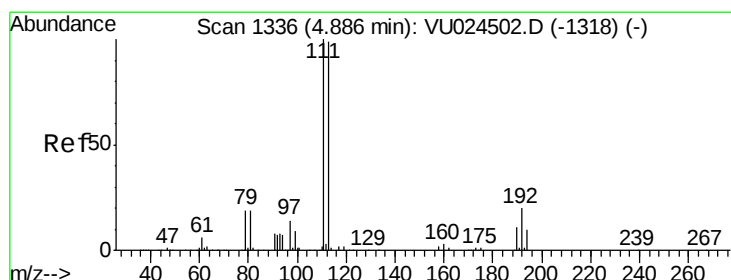
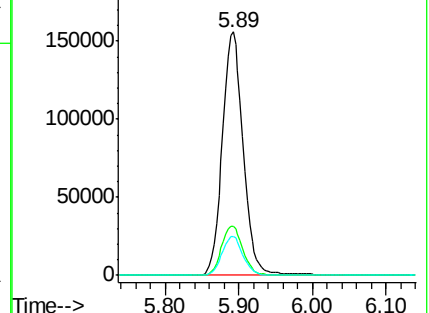
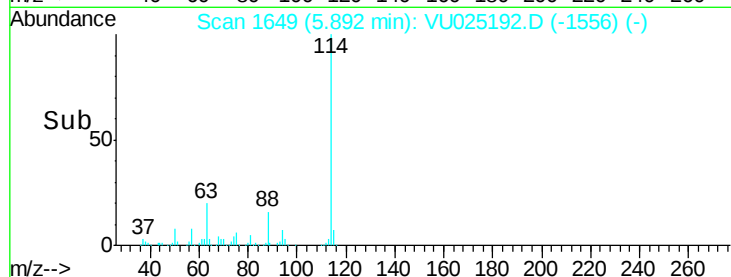
88 16.2 0.0 31.0



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: 47.336 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

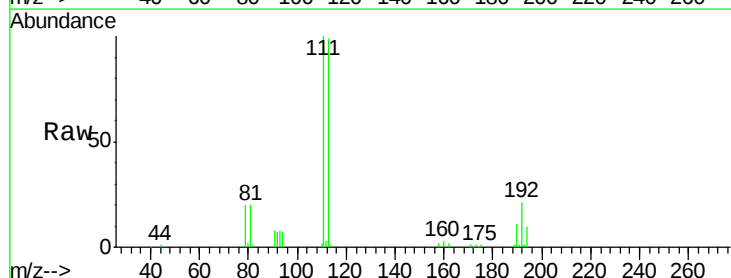
Tgt Ion:113 Resp: 120553

Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.4

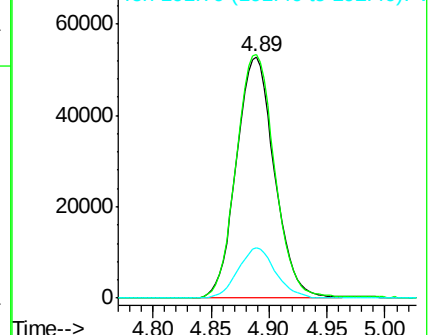
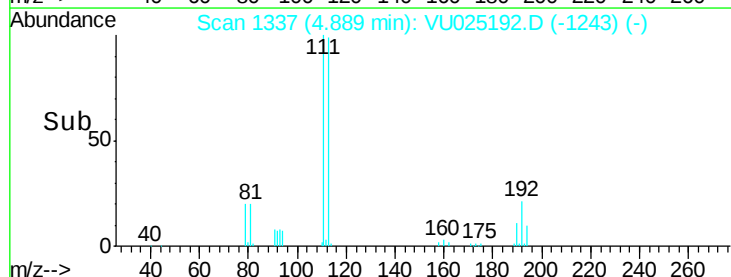
192 20.5 16.2 24.4

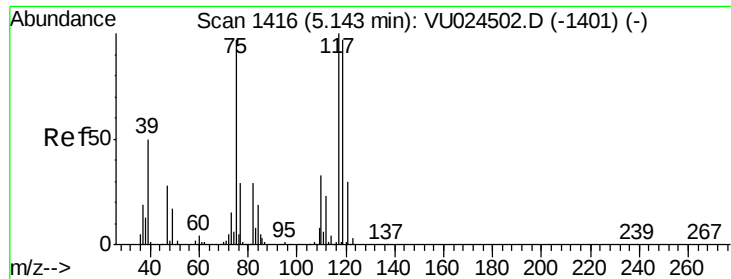


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.091 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-L-01

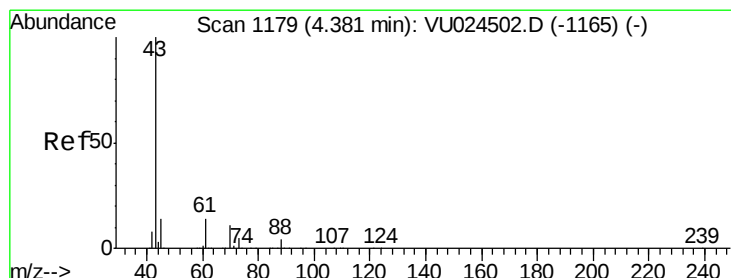
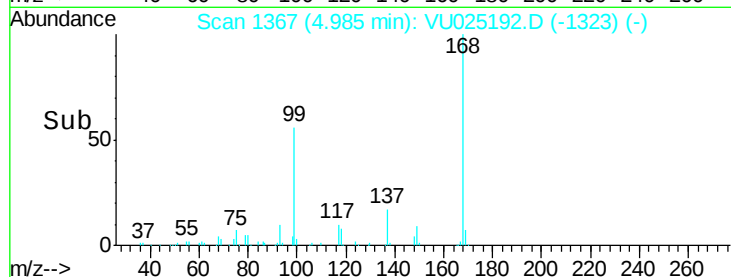
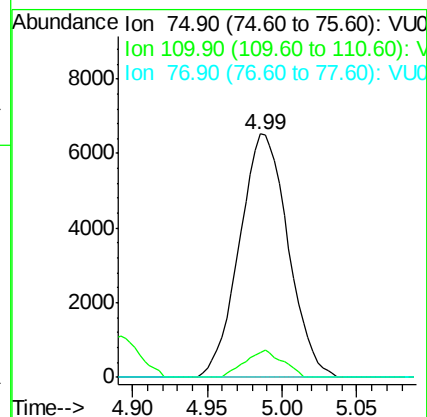
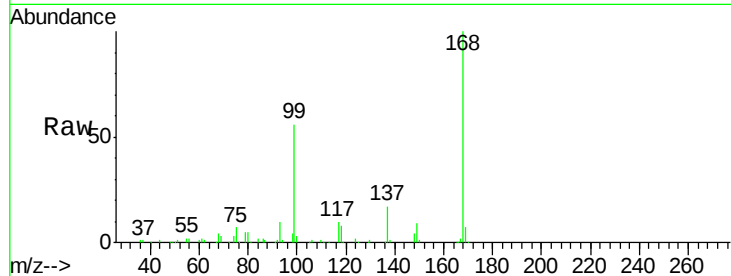
Tot Ion: 75 Resp: 14752

Ion Ratio Lower Upper

75 100

110 8.7 17.0 50.9#

77 0.0 24.2 36.4#



#37

Ethyl Acetate

Concen: 1.096 ug/l

RT: 4.27 min Scan# 1145

Delta R.T. -0.11 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

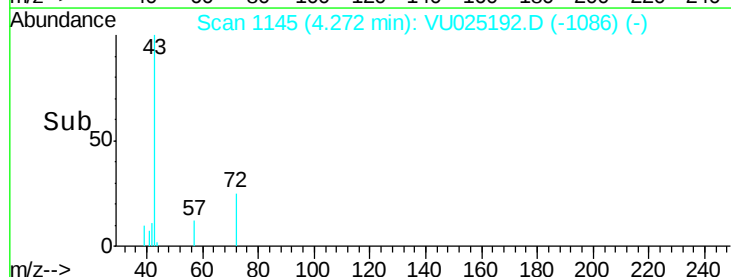
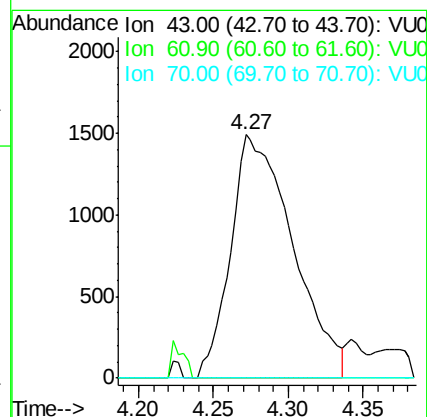
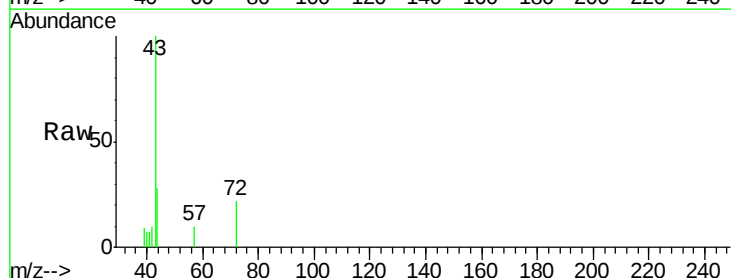
Tgt Ion: 43 Resp: 4308

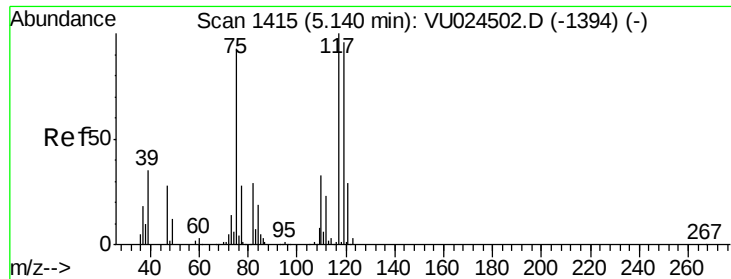
Ion Ratio Lower Upper

43 100

61 0.0 10.5 15.7#

70 0.0 7.4 11.2#





#38

Carbon Tetrachloride

Concen: 5.008 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-L-01

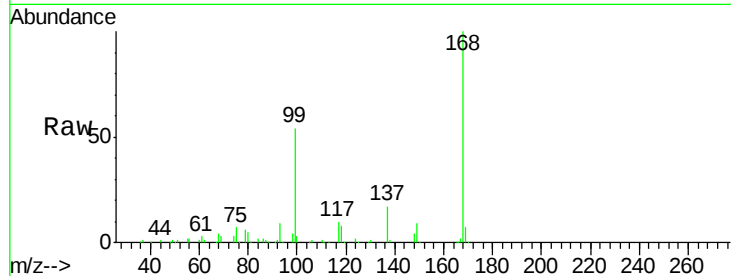
Tot Ion:117 Resp: 19860

Ion Ratio Lower Upper

117 100

119 4.6 76.1 114.1#

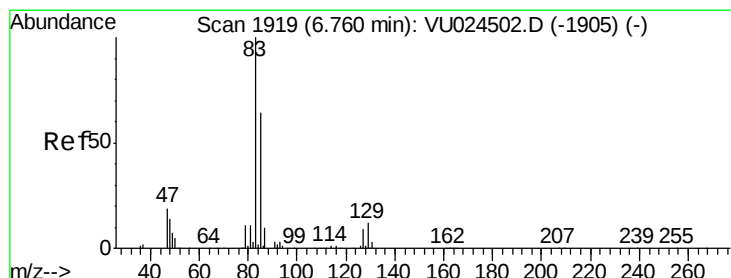
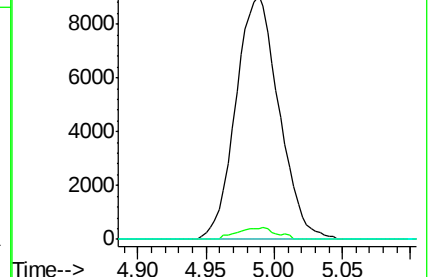
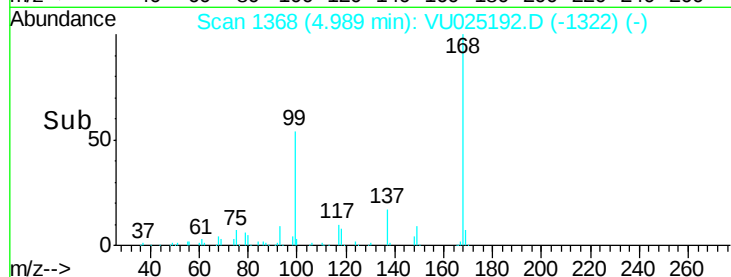
121 0.0 23.7 35.5#



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



#47

Bromodichloromethane

Concen: 1.129 ug/l

RT: 6.76 min Scan# 1919

Delta R.T. -0.00 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

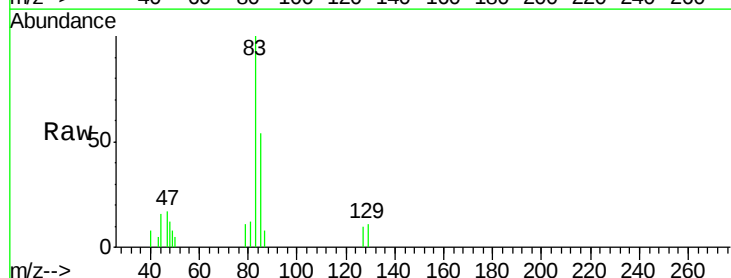
Tgt Ion: 83 Resp: 4330

Ion Ratio Lower Upper

83 100

85 54.3 51.9 77.9

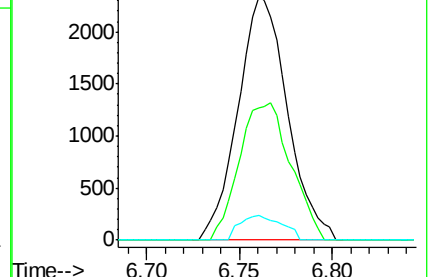
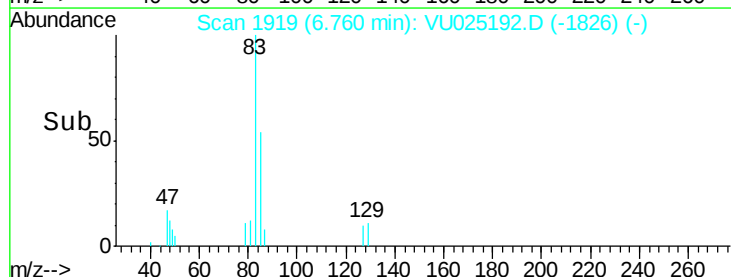
127 10.0 6.6 9.8#

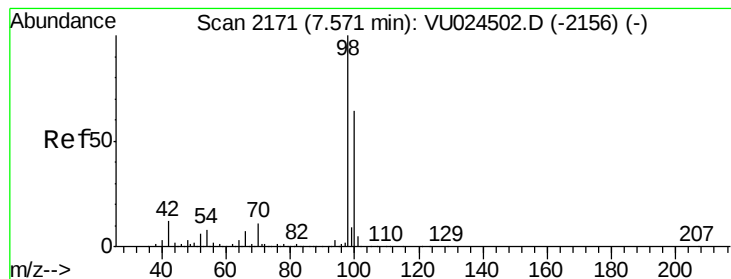


Abundance Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 126.80 (126.50 to 127.50): V





#50

Toluene-d8

Concen: 46.842 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

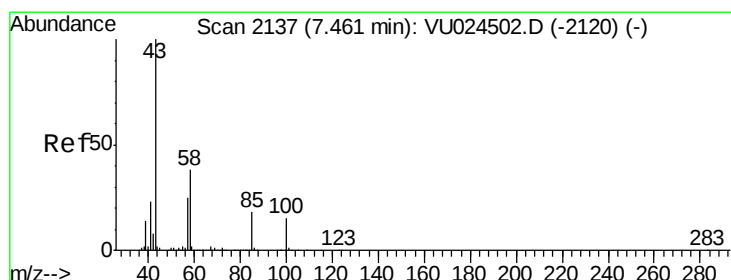
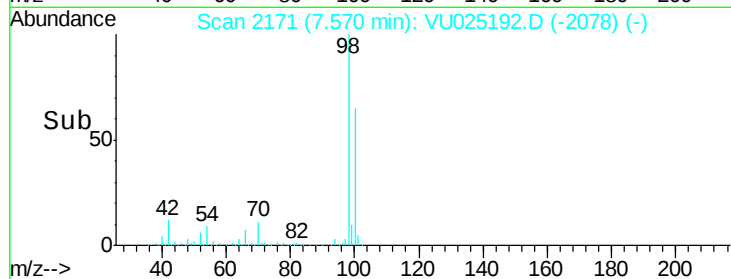
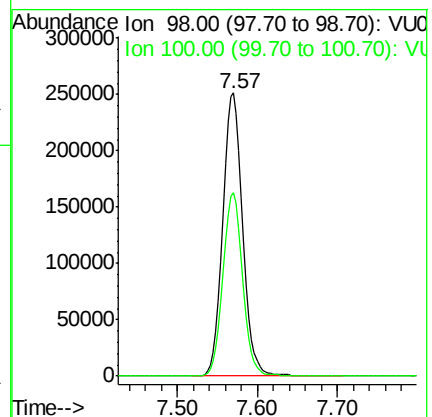
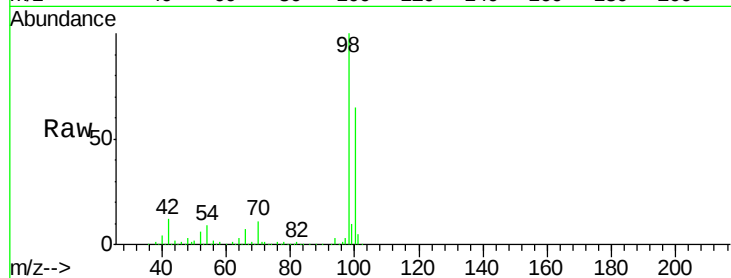
ZER-WC-L-01

Tot Ion: 98 Resp: 435143

Ion Ratio Lower Upper

98 100

100 64.3 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.903 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU025192.D

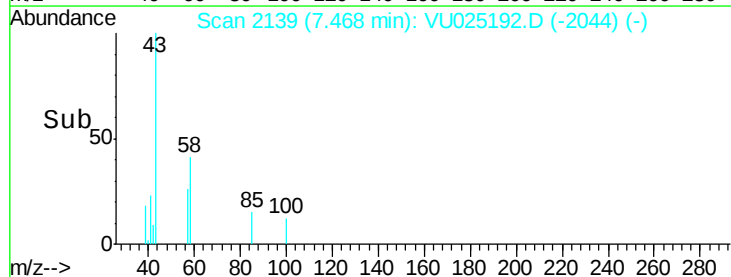
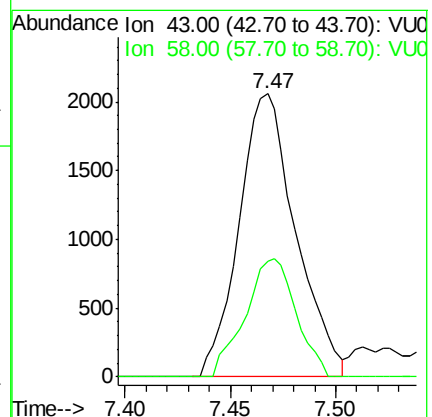
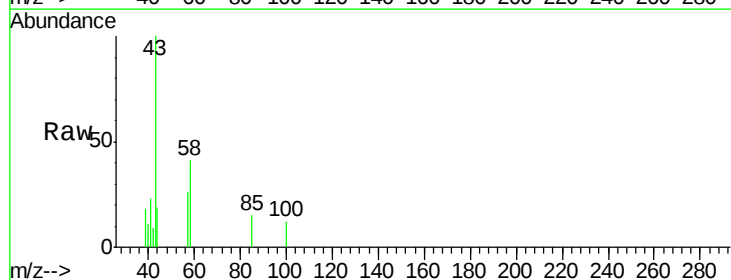
Acq: 03 Jul 2018 15:41

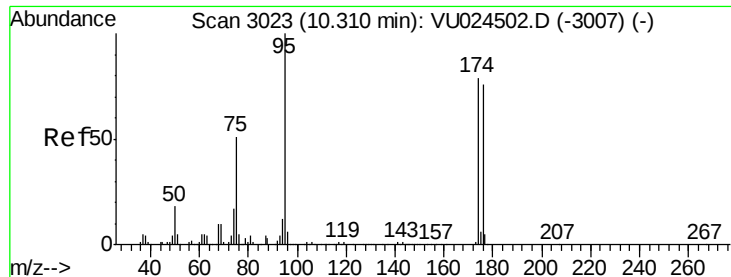
Tgt Ion: 43 Resp: 3856

Ion Ratio Lower Upper

43 100

58 37.3 30.0 45.0

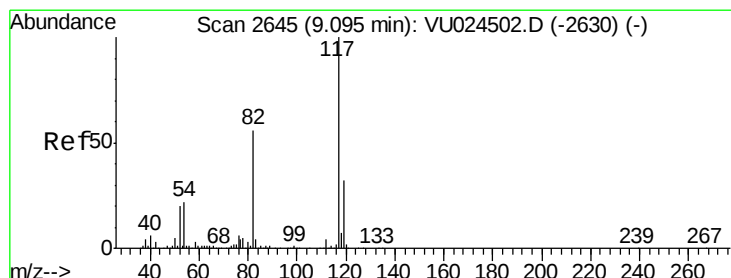
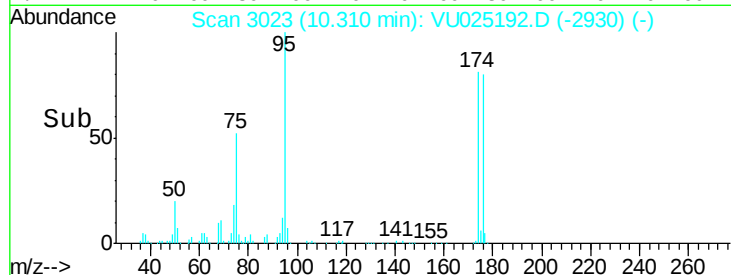
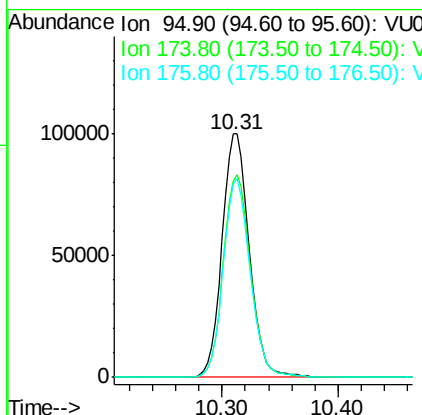
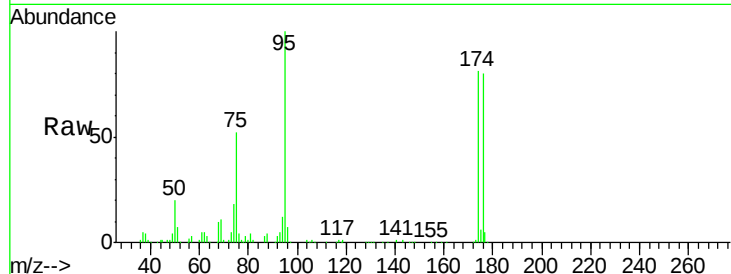




#62
4-Bromofluorobenzene
Concen: 43.850 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU025192.D
Acq: 03 Jul 2018 15:41

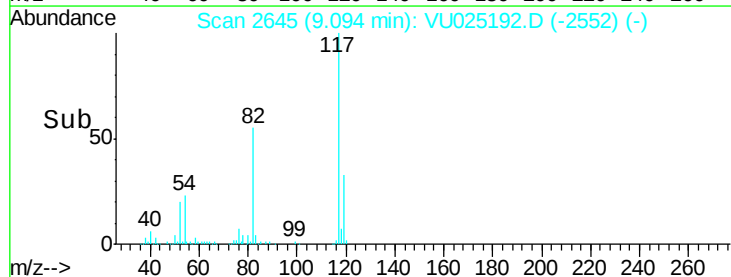
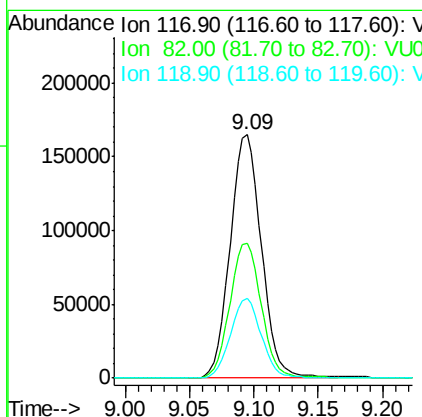
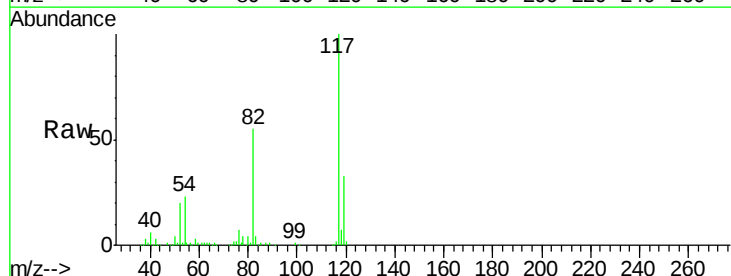
Instrument :
MSVOA_U
ClientSampleId :
ZER-WC-L-01

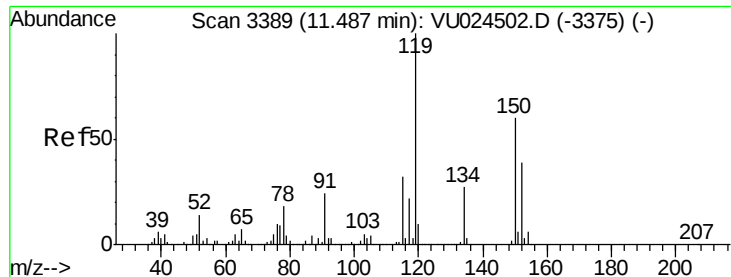
Tot Ion: 95 Resp: 161735
Ion Ratio Lower Upper
95 100
174 83.5 0.0 165.8
176 80.9 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025192.D
Acq: 03 Jul 2018 15:41

Tgt Ion: 117 Resp: 277995
Ion Ratio Lower Upper
117 100
82 55.5 44.3 66.5
119 32.8 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU025192.D

Acq: 03 Jul 2018 15:41

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-L-01

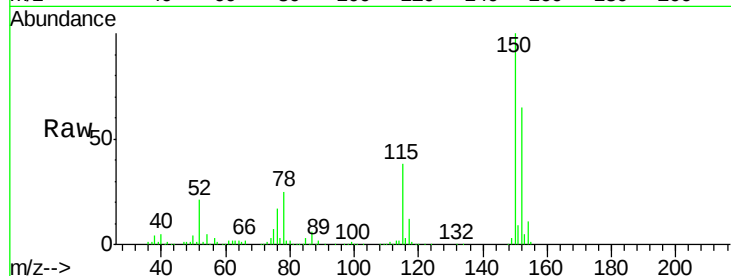
Tot Ion:152 Resp: 145448

Ion Ratio Lower Upper

152 100

115 57.5 43.0 129.0

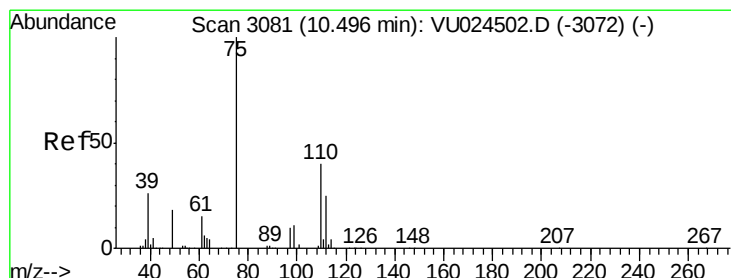
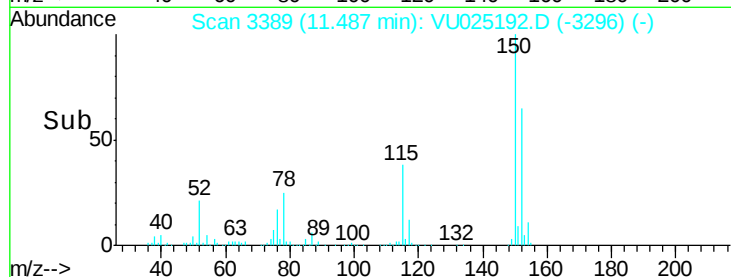
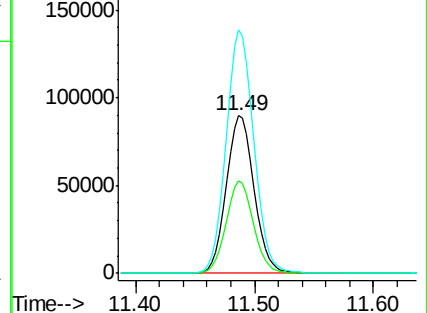
150 154.0 0.0 354.0



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: 26.321 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025192.D

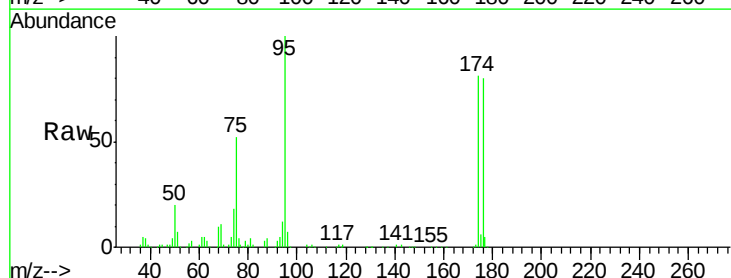
Acq: 03 Jul 2018 15:41

Tgt Ion: 75 Resp: 84286

Ion Ratio Lower Upper

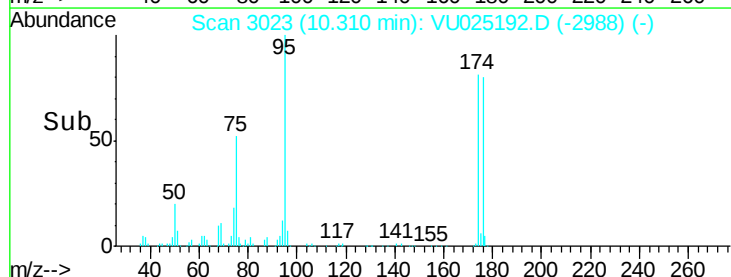
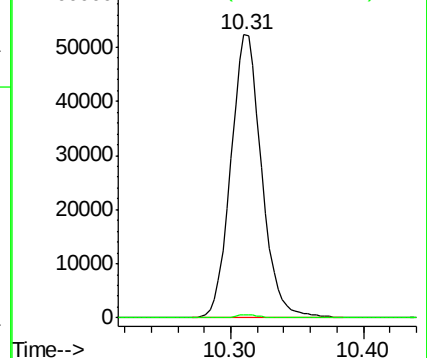
75 100

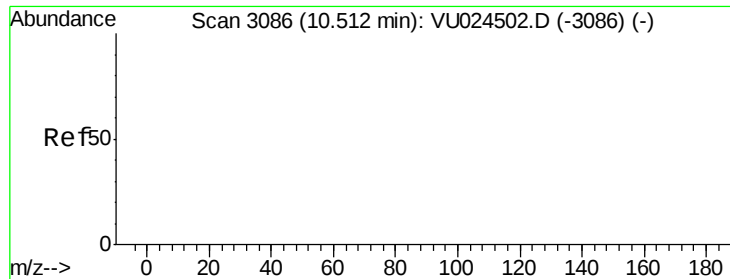
77 0.9 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

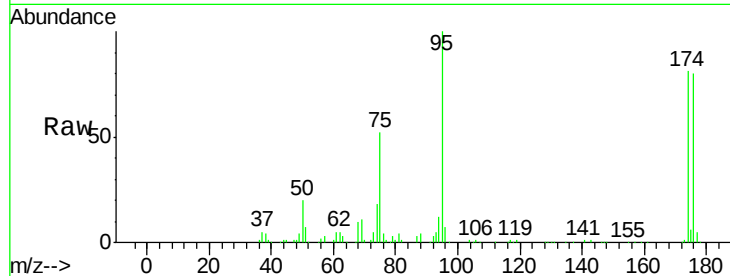




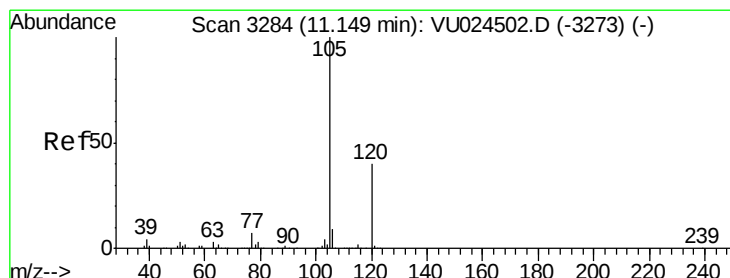
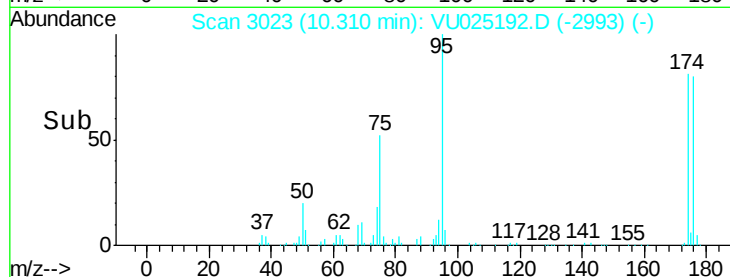
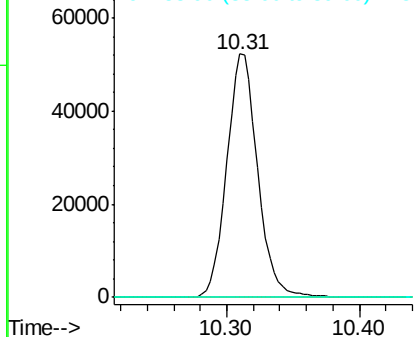
#81
trans-1,4-Dichloro-2-butene
Concen: 60.918 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU025192.D
Acq: 03 Jul 2018 15:41

Instrument :
MSVOA_U
ClientSampleId :
ZER-WC-L-01

Tot Ion: 75 Resp: 84286
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0

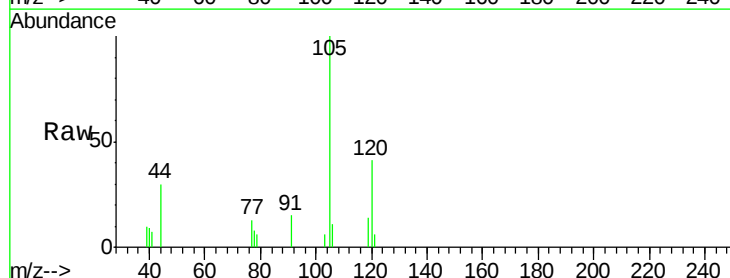


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

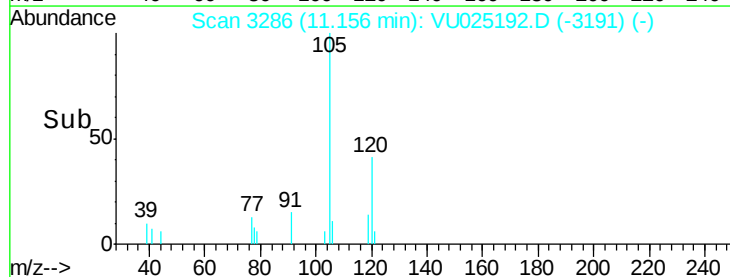
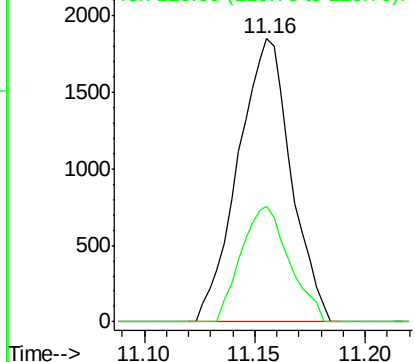


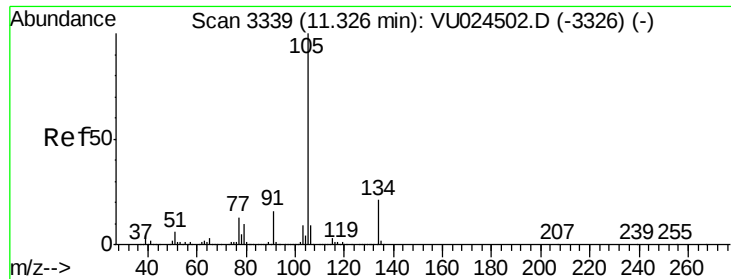
#84
1,2,4-Trimethylbenzene
Concen: 0.314 ug/l
RT: 11.16 min Scan# 3286
Delta R.T. 0.01 min
Lab File: VU025192.D
Acq: 03 Jul 2018 15:41

Tgt Ion:105 Resp: 3093
Ion Ratio Lower Upper
105 100
120 37.1 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V

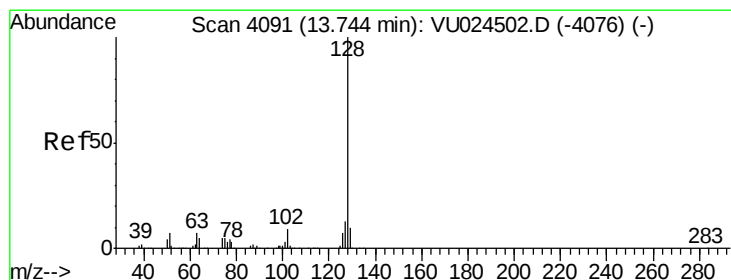
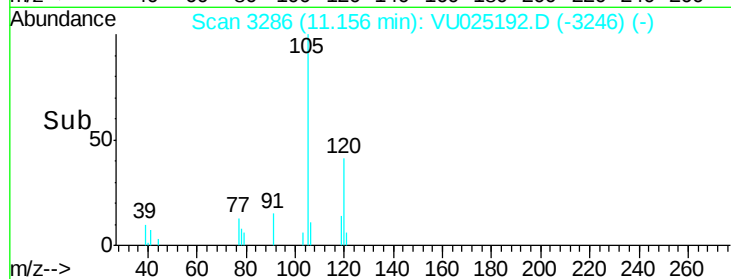
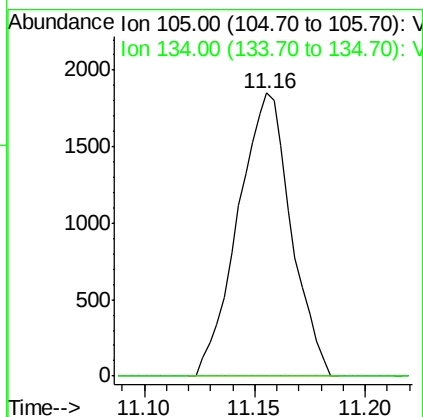
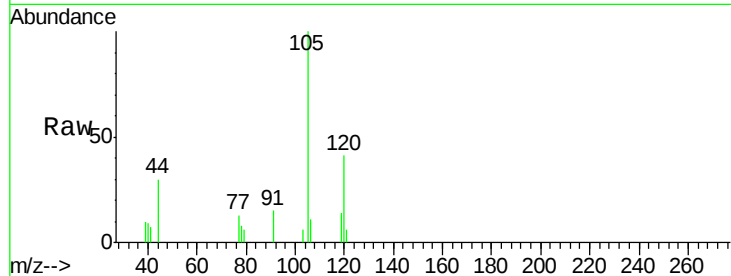




#85
 sec-Butylbenzene
 Concen: 0.265 ug/l
 RT: 11.16 min Scan# 3286
 Delta R.T. -0.17 min
 Lab File: VU025192.D
 Acq: 03 Jul 2018 15:41

Instrument :
 MSVOA_U
 ClientSampleId :
 ZER-WC-L-01

Tot Ion:105 Resp: 3093
 Ion Ratio Lower Upper
 105 100
 134 0.0 9.7 29.1#



#95
 Naphthalene
 Concen: 0.873 ug/l
 RT: 13.75 min Scan# 4094
 Delta R.T. 0.01 min
 Lab File: VU025192.D
 Acq: 03 Jul 2018 15:41

Tgt Ion:128 Resp: 2104
 Ion Ratio Lower Upper
 128 100
 127 5.1 10.6 16.0#
 129 3.8 8.6 12.8#

