

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070218\
 Data File : VU025151.D
 Acq On : 02 Jul 2018 18:27
 Operator : MD/SY
 Sample : J3790-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 ZER-WC-S-01-0-72

Quant Time: Jul 03 03:01:19 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	207890	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	313048	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	288678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	150276	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	158999	46.85	ug/l	0.00
Spiked Amount			Recovery	=	93.70%	
35) Dibromofluoromethane	4.89	113	122568	47.18	ug/l	0.00
Spiked Amount			Recovery	=	94.36%	
50) Toluene-d8	7.57	98	448925	47.37	ug/l	0.00
Spiked Amount			Recovery	=	94.74%	
62) 4-Bromofluorobenzene	10.31	95	164071	43.61	ug/l	0.00
Spiked Amount			Recovery	=	87.22%	

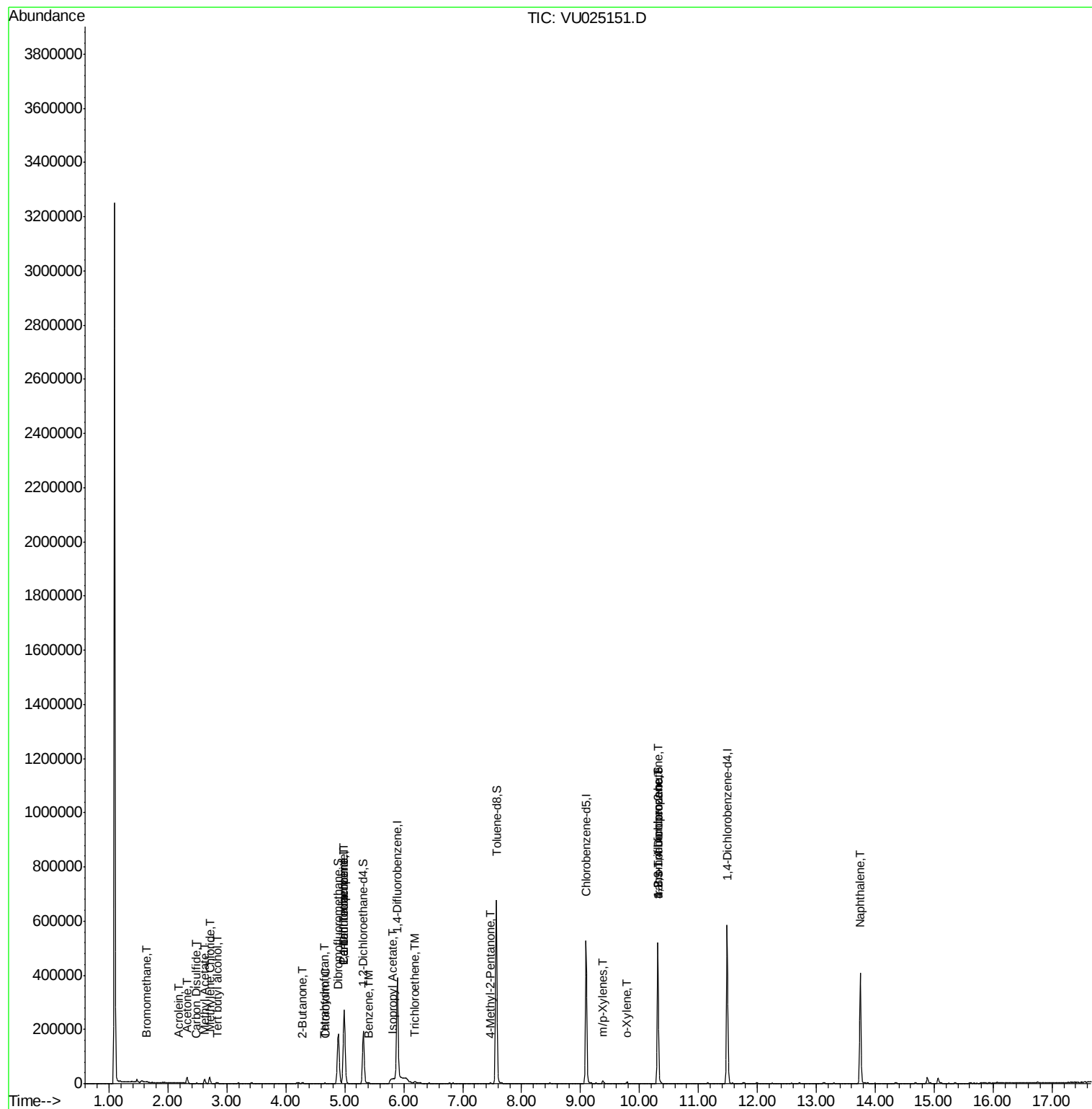
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.63	94	276	0.208	ug/l #	62
6) Chloroethane	1.66	64	108	Below Cal	#	43
8) Diethyl Ether	2.10	74	101	Below Cal	#	1
11) Tert butyl alcohol	2.83	59	4645	5.627	ug/l #	88
13) Acrolein	2.19	56	91	0.210	ug/l #	36
16) Acetone	2.32	43	24358	13.358	ug/l	96
17) Carbon Disulfide	2.48	76	1550	0.204	ug/l #	94
18) Methyl Acetate	2.62	43	18940	4.845	ug/l	100
20) Methylene Chloride	2.71	84	10242	3.580	ug/l	97
25) 2-Butanone	4.28	43	5975	2.439	ug/l	92
29) Tetrahydrofuran	4.64	42	545	0.359	ug/l #	76
30) Chloroform	4.68	83	1131	0.223	ug/l	86
31) Cyclohexane	4.99	56	4362	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	15378	4.180	ug/l #	51
38) Carbon Tetrachloride	4.99	117	20472	5.061	ug/l #	16
40) Benzene	5.40	78	2146	0.205	ug/l #	85
43) Isopropyl Acetate	5.80	43	17040	2.459	ug/l #	62
44) Trichloroethene	6.20	130	1968	0.660	ug/l	93
51) 4-Methyl-2-Pentanone	7.47	43	1876	0.431	ug/l #	76
68) m/p-Xylenes	9.38	106	3283	0.661	ug/l	95
69) o-Xylene	9.79	106	1395	0.284	ug/l	53
76) 1,2,3-Trichloropropane	10.31	75	88144	26.641	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	88144	61.659	ug/l #	100
95) Naphthalene	13.75	128	324805	29.675	ug/l	100

(#) = 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: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

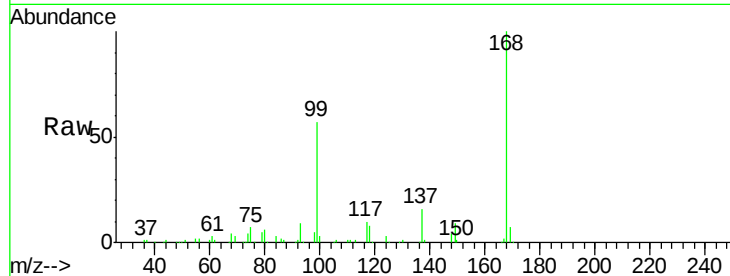
ZER-WC-S-01-0-72

Tot Ion:168 Resp: 207890

Ion Ratio Lower Upper

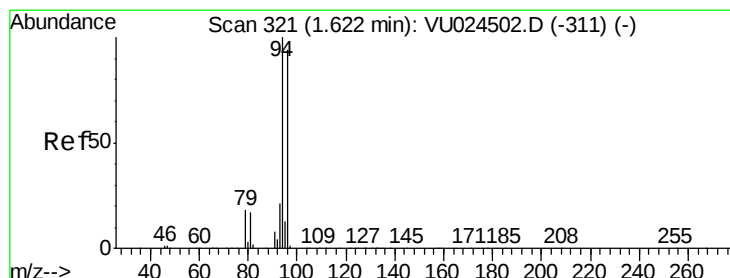
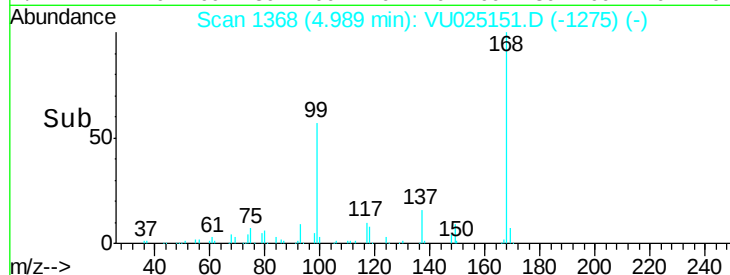
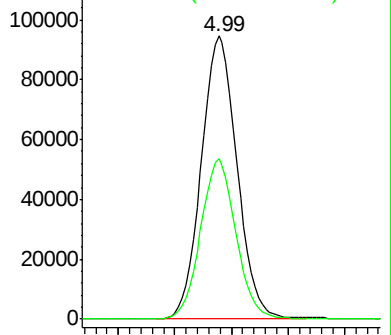
168 100

99 56.5 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025151.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU025151.D (-1275) (-)



#5

Bromomethane

Concen: 0.208 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU025151.D

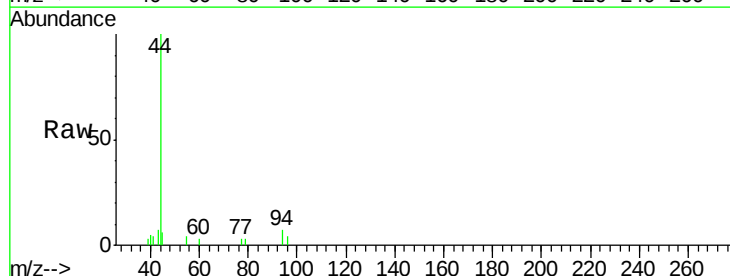
Acq: 02 Jul 2018 18:27

Tgt Ion: 94 Resp: 276

Ion Ratio Lower Upper

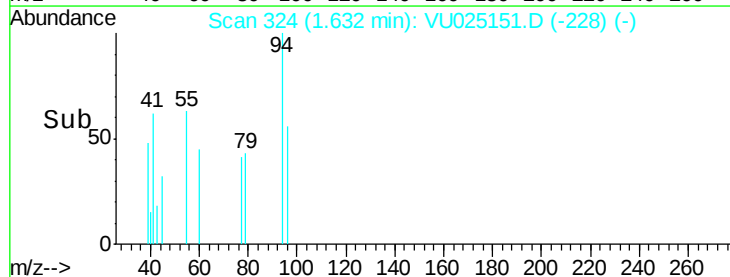
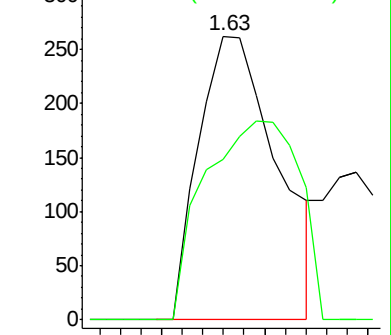
94 100

96 56.5 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU025151.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VU025151.D (-228) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.66 min Scan# 332

Delta R.T. -0.04 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

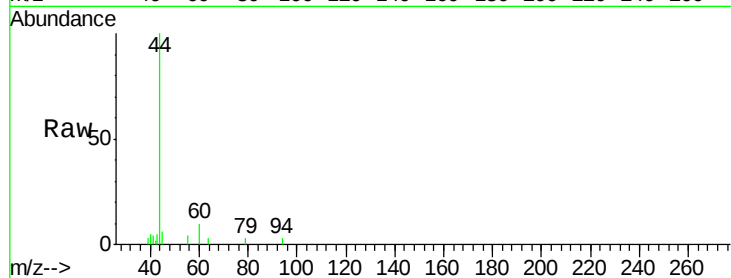
ZER-WC-S-01-0-72

Tot Ion: 64 Resp: 108

Ion Ratio Lower Upper

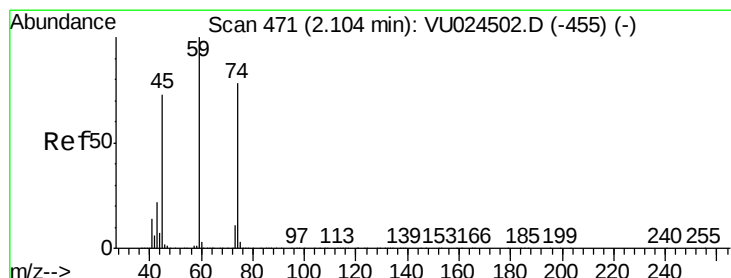
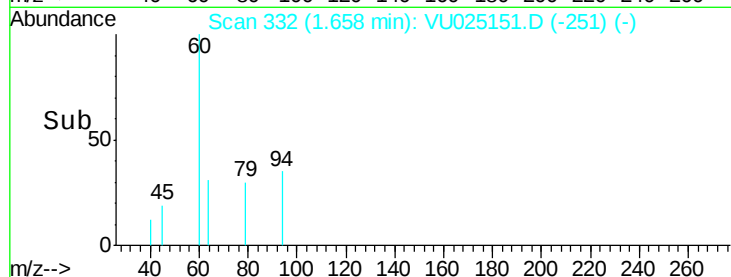
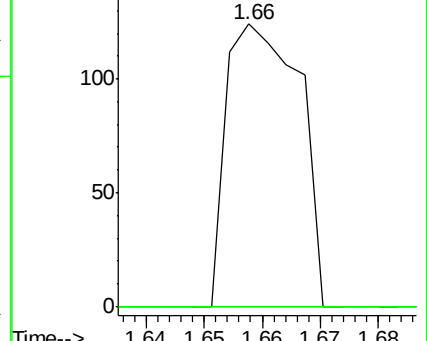
64 100

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



#8

Diethyl Ether

Concen: Below Cal

RT: 2.10 min Scan# 470

Delta R.T. -0.00 min

Lab File: VU025151.D

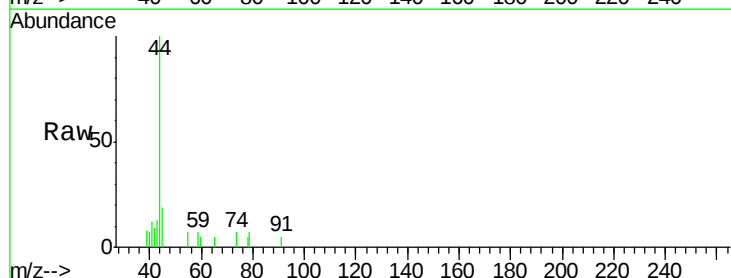
Acq: 02 Jul 2018 18:27

Tgt Ion: 74 Resp: 101

Ion Ratio Lower Upper

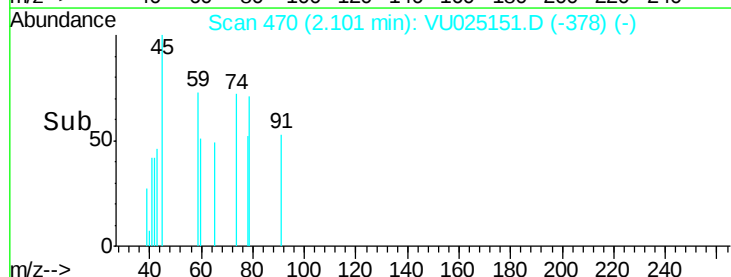
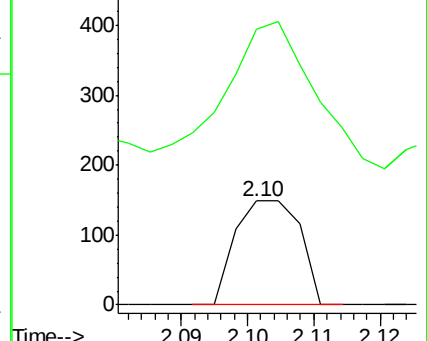
74 100

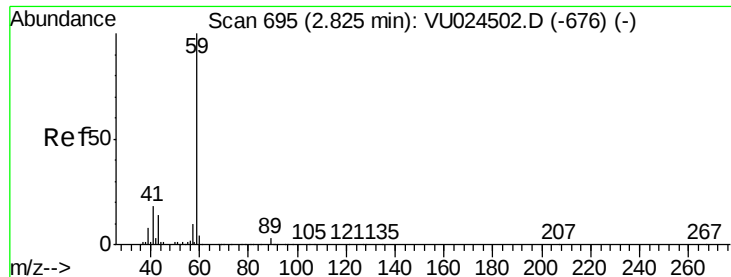
45 276.2 55.0 165.0#



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

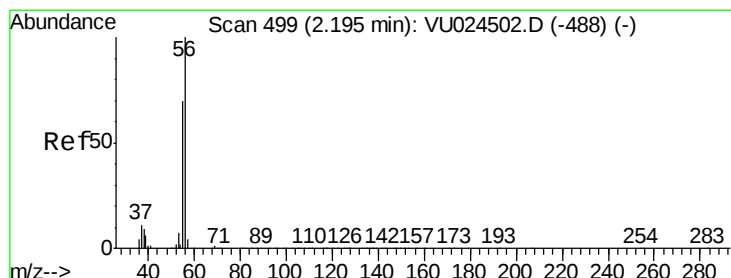
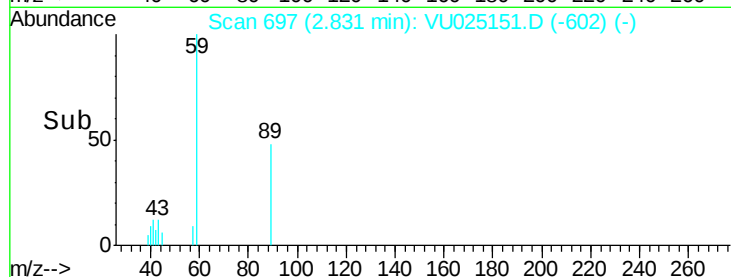
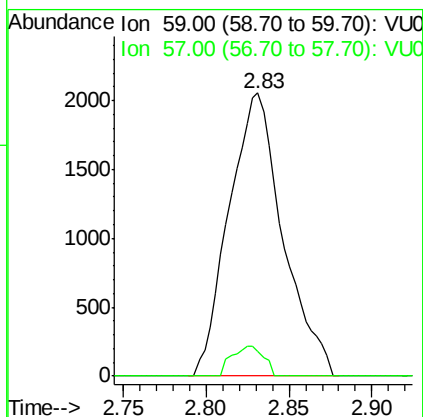
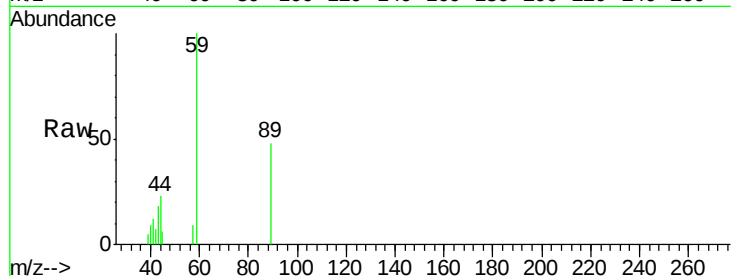




#11
Tert butyl alcohol
Concen: 5.627 ug/l
RT: 2.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

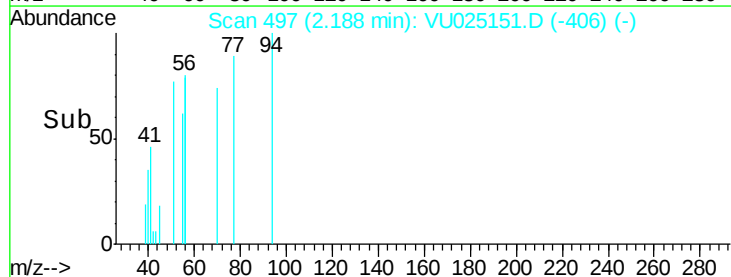
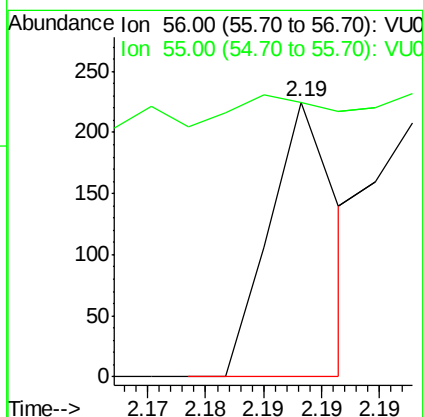
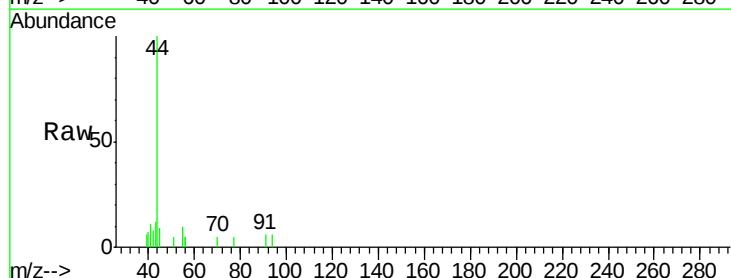
Instrument :
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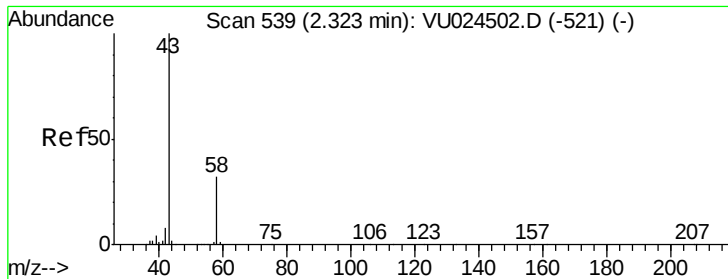
Tot Ion: 59 Resp: 4645
Ion Ratio Lower Upper
59 100
57 6.2 8.5 12.7#



#13
Acrolein
Concen: 0.210 ug/l
RT: 2.19 min Scan# 497
Delta R.T. -0.01 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

Tgt Ion: 56 Resp: 91
Ion Ratio Lower Upper
56 100
55 126.4 58.4 87.6#





#16

Acetone

Concen: 13.358 ug/l

RT: 2.32 min Scan# 539

Delta R.T. 0.00 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

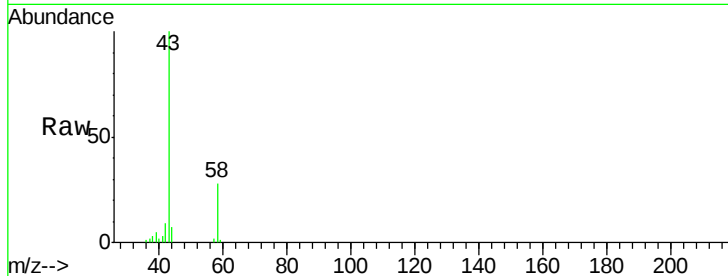
ZER-WC-S-01-0-72

Tot Ion: 43 Resp: 24358

Ion Ratio Lower Upper

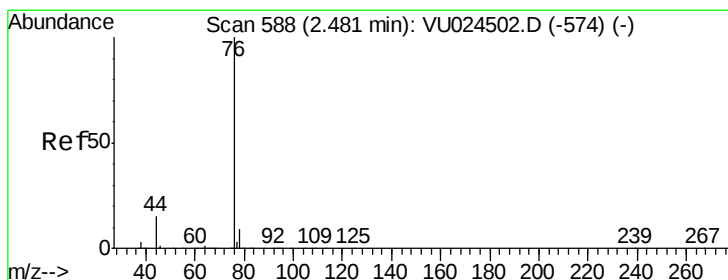
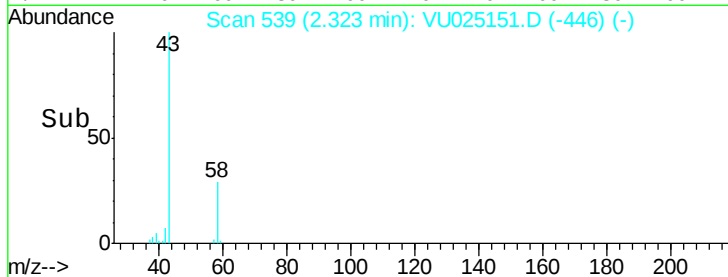
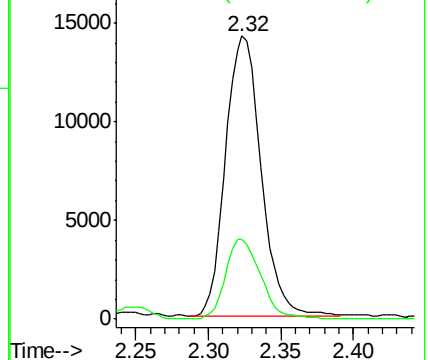
43 100

58 28.6 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#17

Carbon Disulfide

Concen: 0.204 ug/l

RT: 2.48 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU025151.D

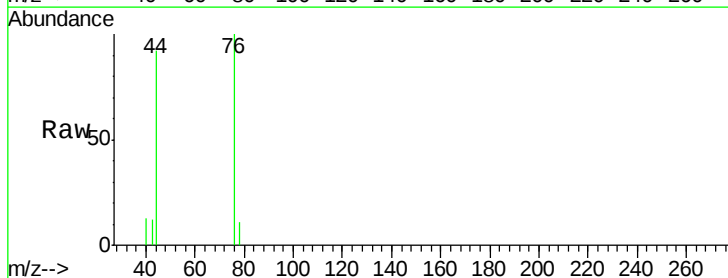
Acq: 02 Jul 2018 18:27

Tgt Ion: 76 Resp: 1550

Ion Ratio Lower Upper

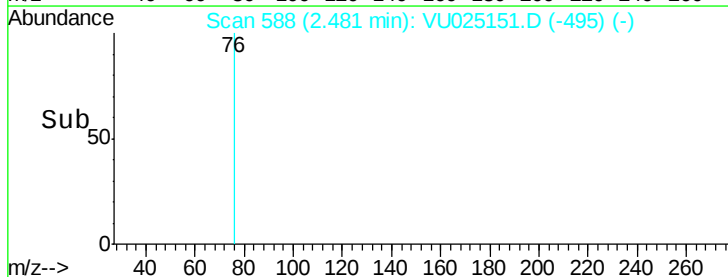
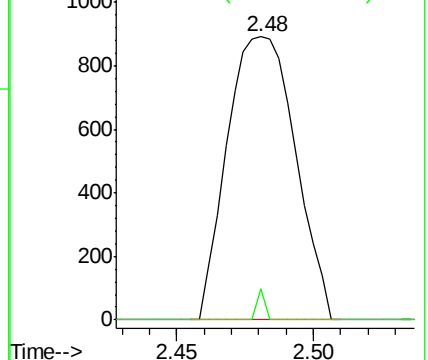
76 100

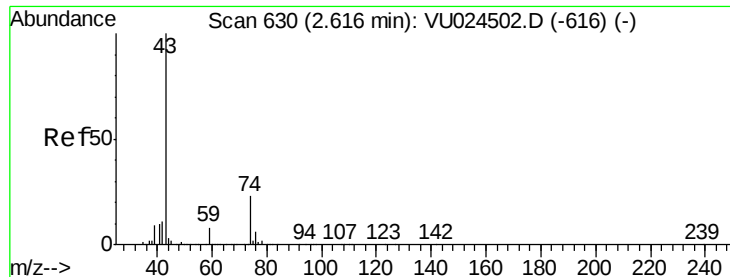
78 11.2 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0

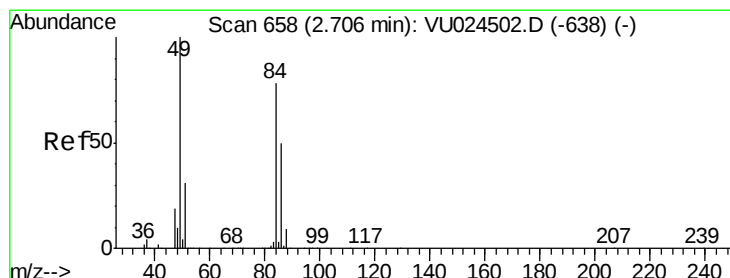
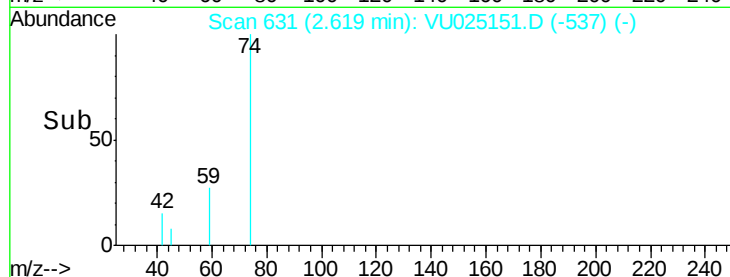
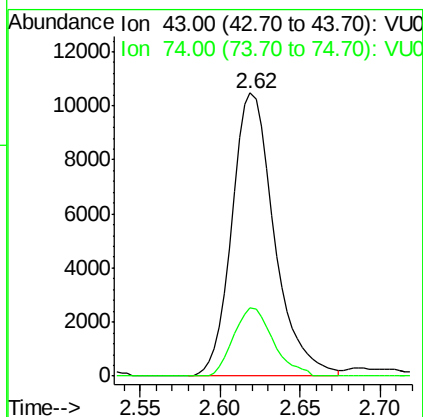
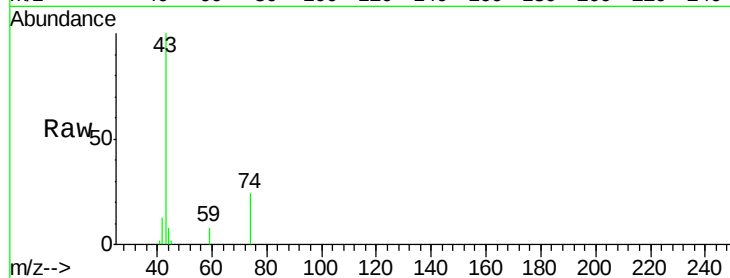




#18
Methvl Acetate
Concen: 4.845 ug/l
RT: 2.62 min Scan# 631
Delta R.T. 0.00 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

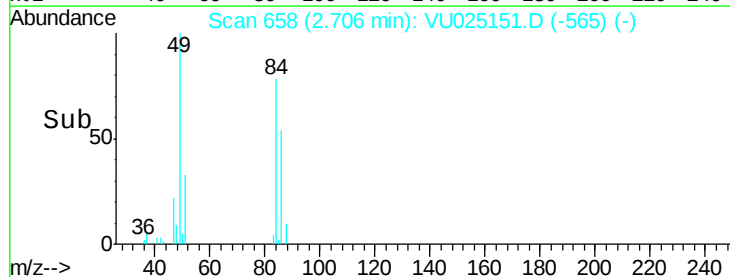
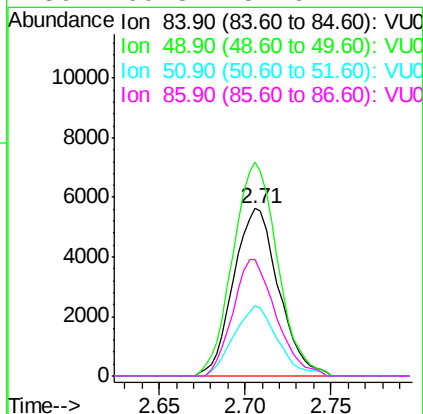
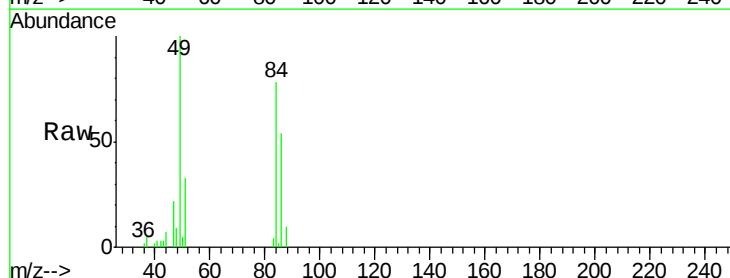
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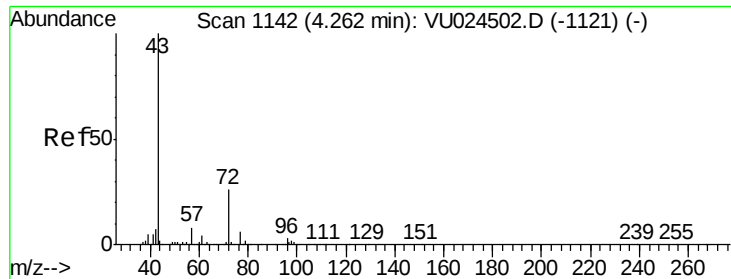
Tot Ion: 43 Resp: 18940
Ion Ratio Lower Upper
43 100
74 22.5 18.0 27.0



#20
Methylene Chloride
Concen: 3.580 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

Tgt Ion: 84 Resp: 10242
Ion Ratio Lower Upper
84 100
49 127.6 103.8 155.8
51 41.8 32.0 48.0
86 69.3 51.6 77.4

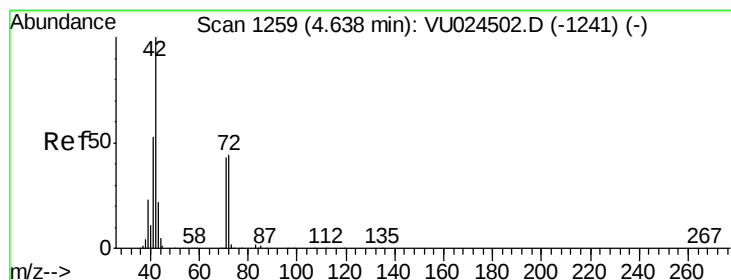
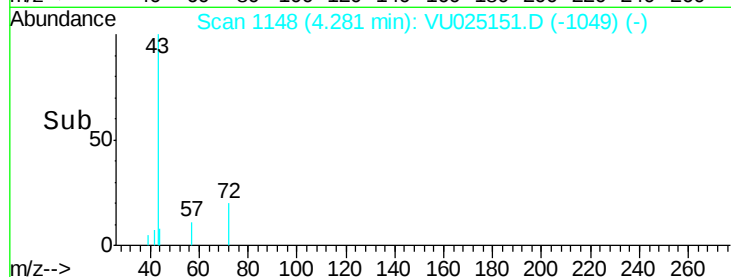
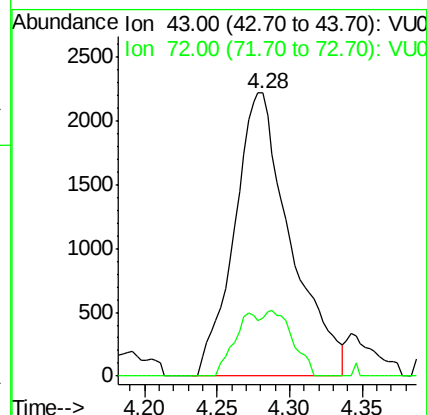
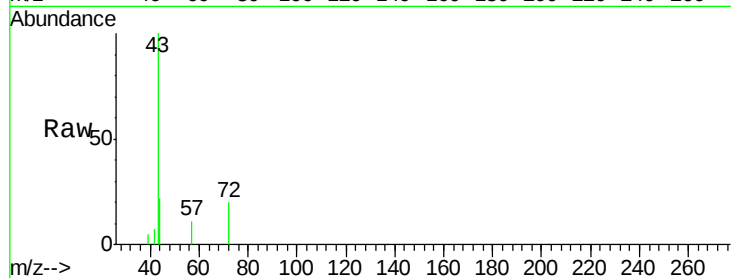




#25
2-Butanone
Concen: 2.439 ug/l
RT: 4.28 min Scan# 1148
Delta R.T. 0.02 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

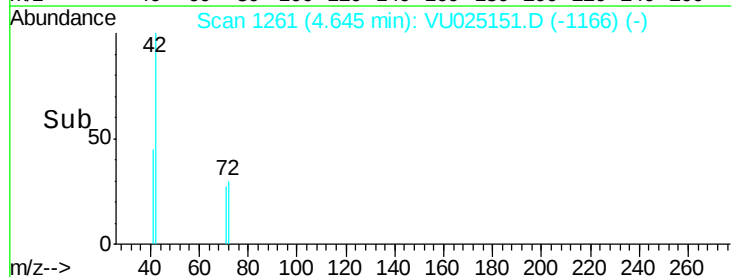
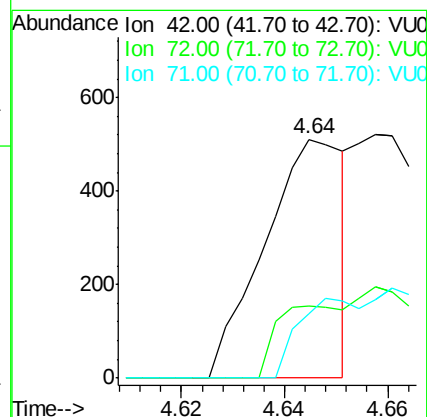
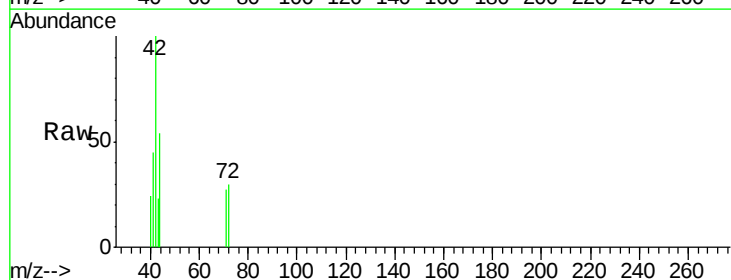
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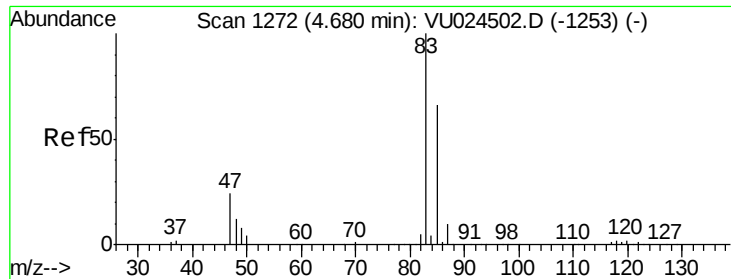
Tot Ion: 43 Resp: 5975
Ion Ratio Lower Upper
43 100
72 20.3 19.6 29.4



#29
Tetrahydrofuran
Concen: 0.359 ug/l
RT: 4.64 min Scan# 1261
Delta R.T. 0.01 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

Tgt Ion: 42 Resp: 545
Ion Ratio Lower Upper
42 100
72 64.2 34.5 51.7#
71 49.4 32.2 48.4#

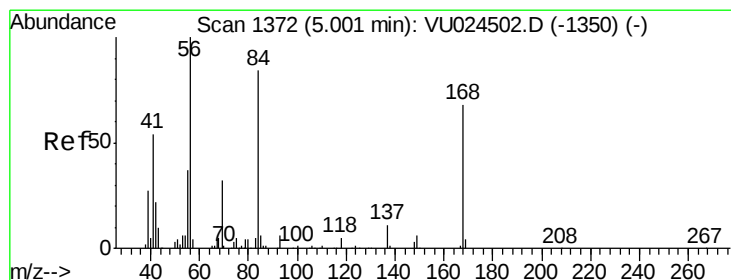
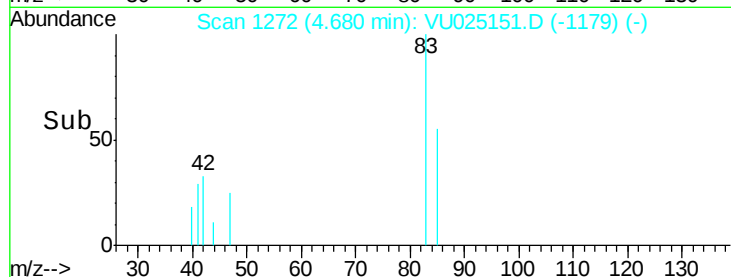
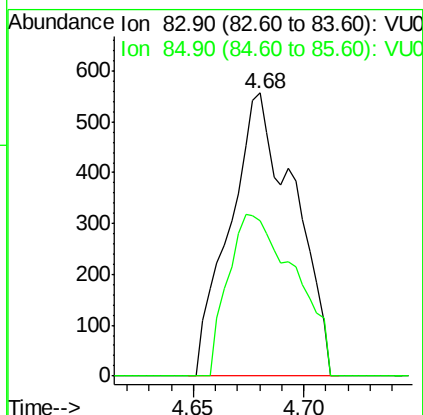
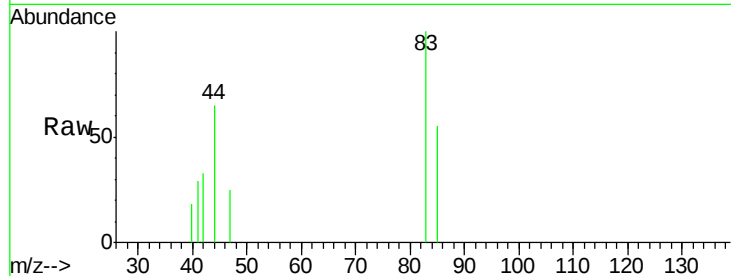




#30
Chloroform
Concen: 0.223 ug/l
RT: 4.68 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

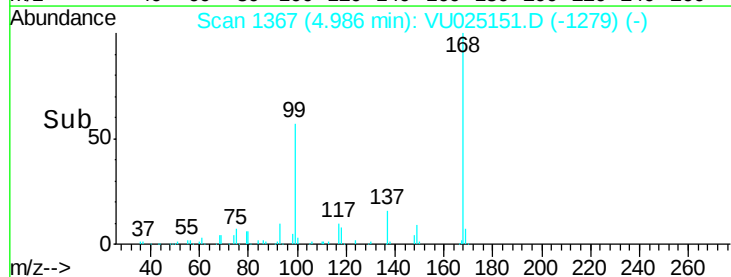
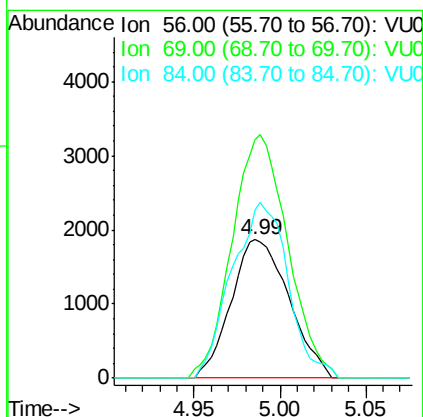
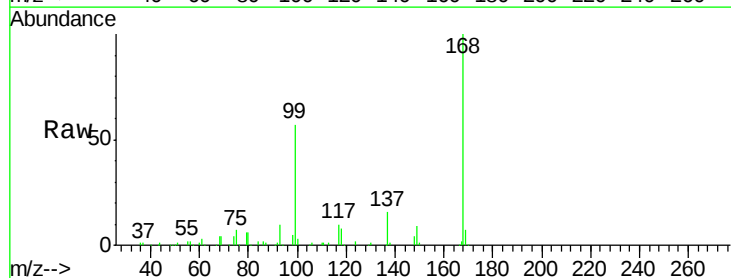
Instrument :
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ZER-WC-S-01-0-72

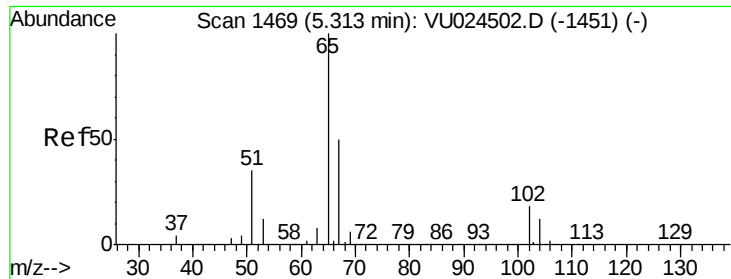
Tot Ion: 83 Resp: 1131
Ion Ratio Lower Upper
83 100
85 54.8 52.4 78.6



#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

Tgt Ion: 56 Resp: 4362
Ion Ratio Lower Upper
56 100
69 173.3 24.8 37.2#
84 121.8 65.2 97.8#

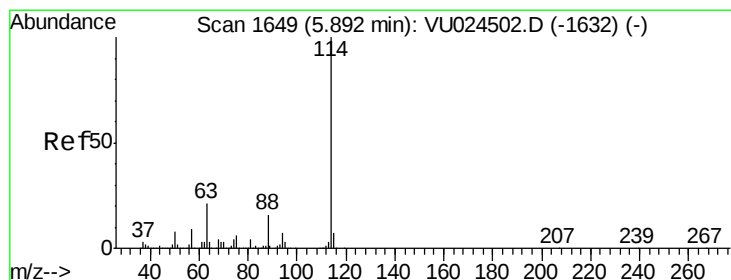
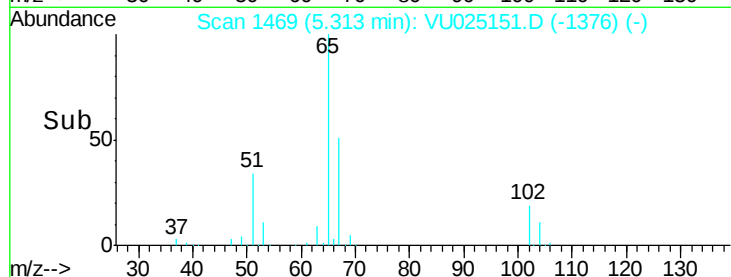
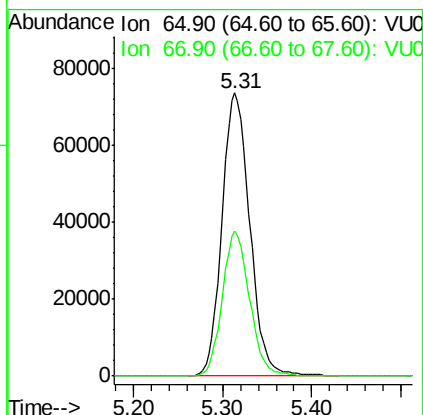
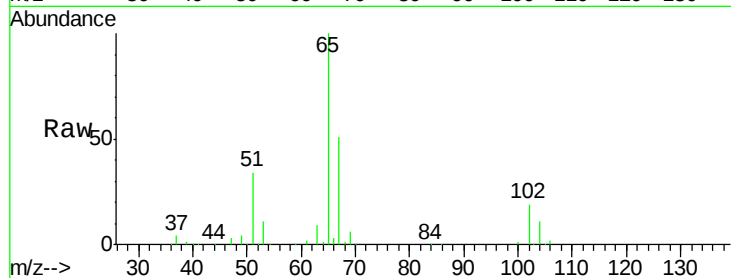




#33
 1,2-Dichloroethane-d4
 Concen: 46.849 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025151.D
 Acq: 02 Jul 2018 18:27

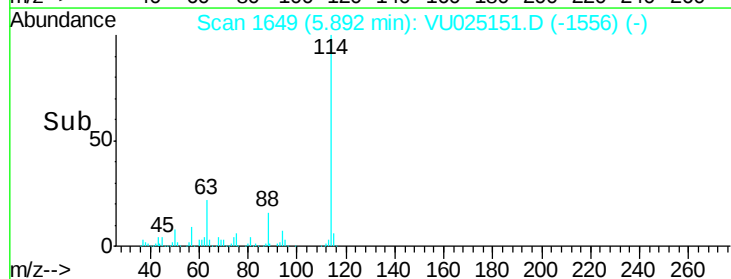
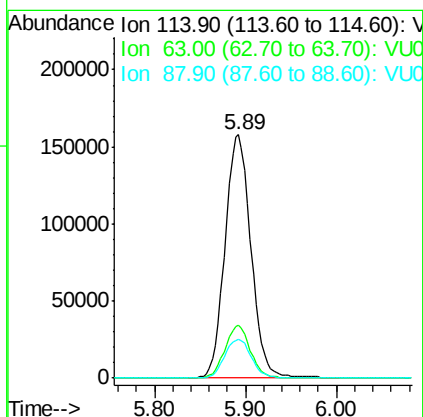
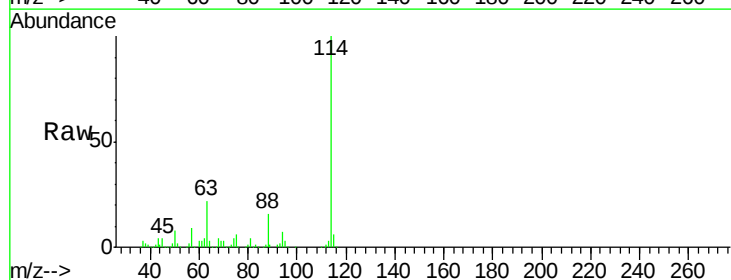
Instrument :
 MSVOA_U
 ClientSampleId :
 ZER-WC-S-01-0-72

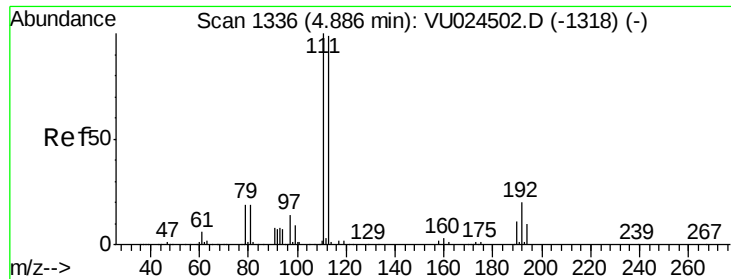
Tot Ion: 65 Resp: 158999
 Ion Ratio Lower Upper
 65 100
 67 50.2 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025151.D
 Acq: 02 Jul 2018 18:27

Tgt Ion: 114 Resp: 313048
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 45.4
 88 15.9 0.0 31.0

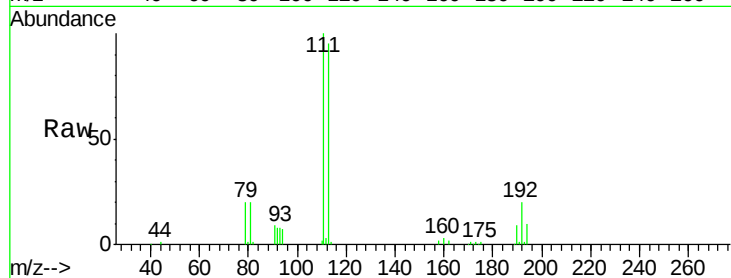




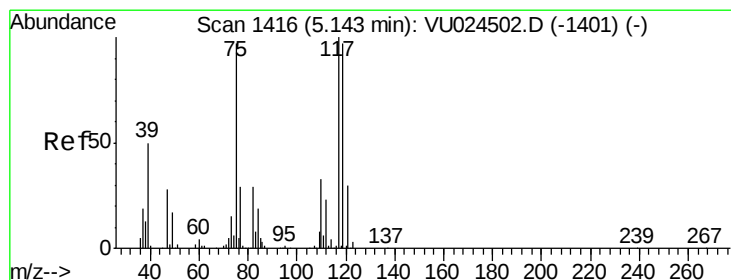
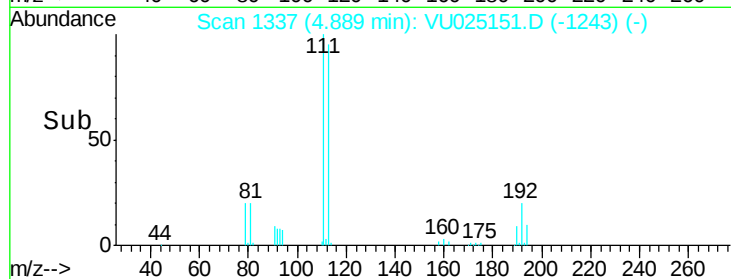
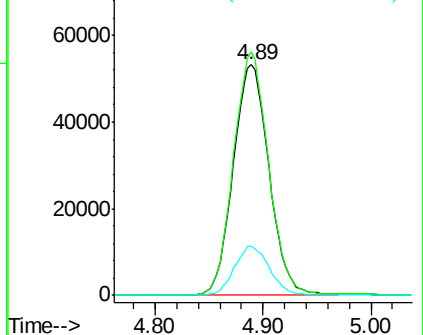
#35
 Dibromofluoromethane
 Concen: 47.177 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025151.D
 Acq: 02 Jul 2018 18:27

Instrument :
 MSVOA_U
 ClientSampleId :
 ZER-WC-S-01-0-72

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.2	123.4
192	20.9	16.2	24.4

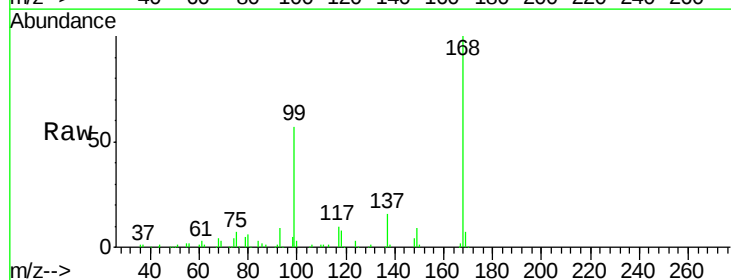


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

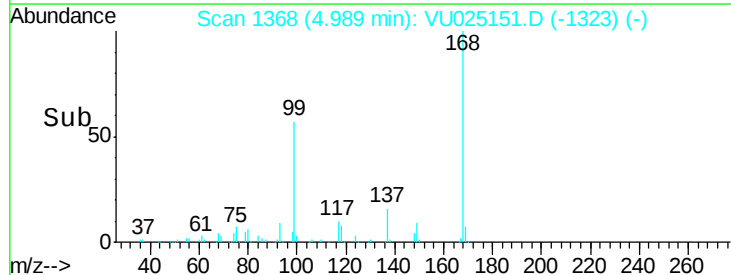
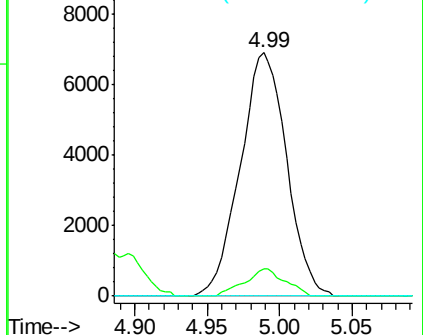


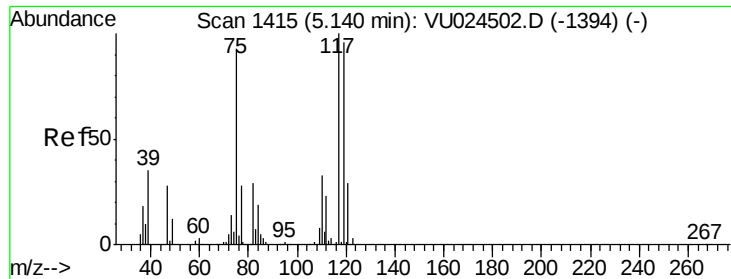
#36
 1,1-Dichloropropene
 Concen: 4.180 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU025151.D
 Acq: 02 Jul 2018 18:27

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.7	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: 5.061 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-S-01-0-72

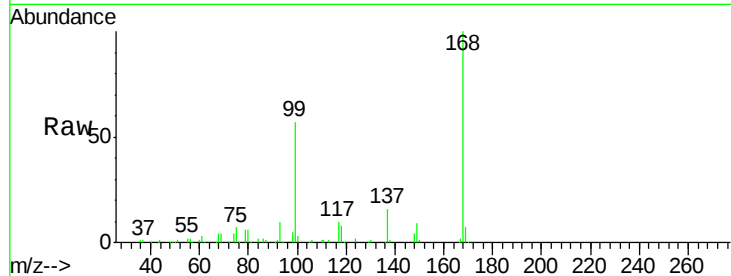
Tot Ion:117 Resp: 20472

Ion Ratio Lower Upper

117 100

119 4.4 76.1 114.1#

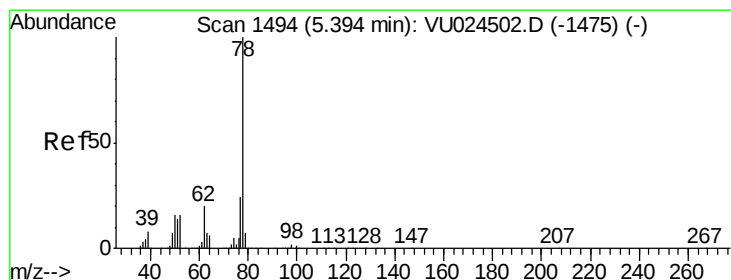
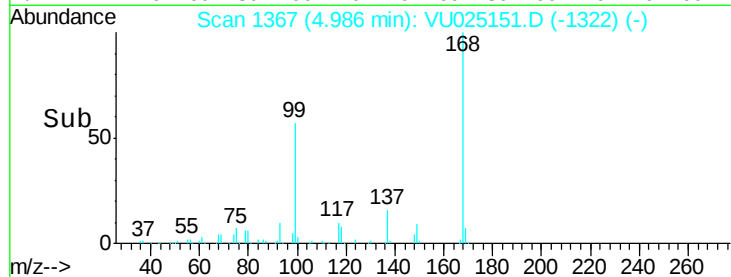
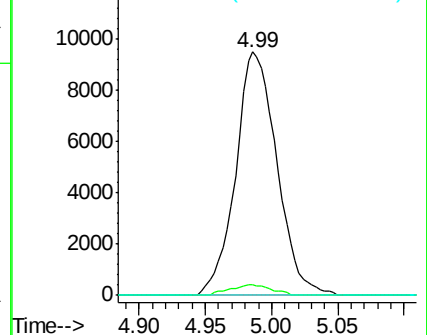
121 0.0 23.7 35.5#



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: 0.205 ug/l

RT: 5.40 min Scan# 1496

Delta R.T. 0.01 min

Lab File: VU025151.D

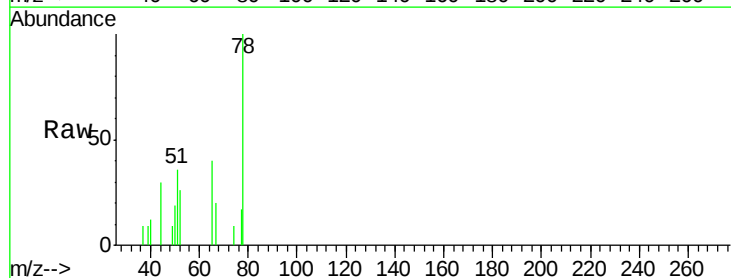
Acq: 02 Jul 2018 18:27

Tgt Ion: 78 Resp: 2146

Ion Ratio Lower Upper

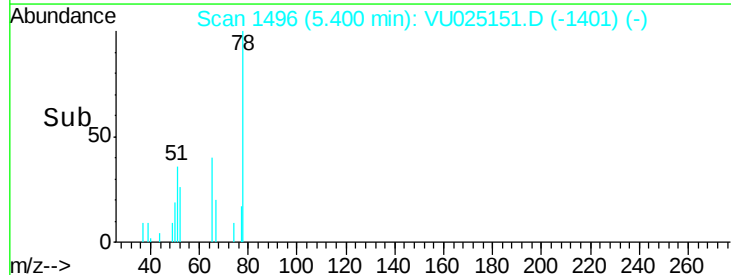
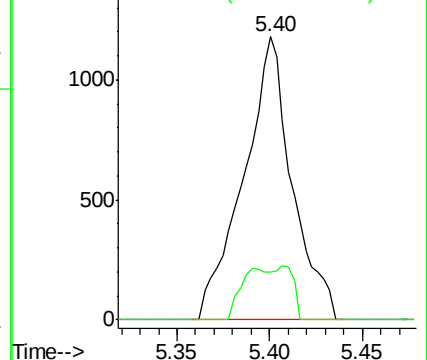
78 100

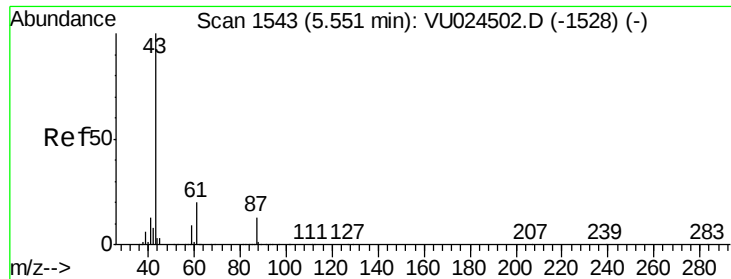
77 16.8 19.2 28.8#



Abundance Ion 78.00 (77.70 to 78.70): VU0

Ion 77.00 (76.70 to 77.70): VU0





#43

Isopropyl Acetate

Concen: 2.459 ug/l

RT: 5.80 min Scan# 1621

Delta R.T. 0.25 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-S-01-0-72

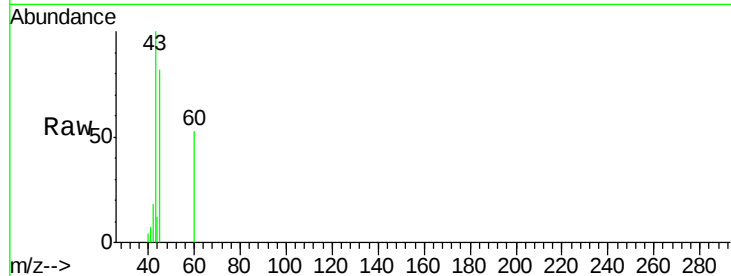
Tot Ion: 43 Resp: 17040

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

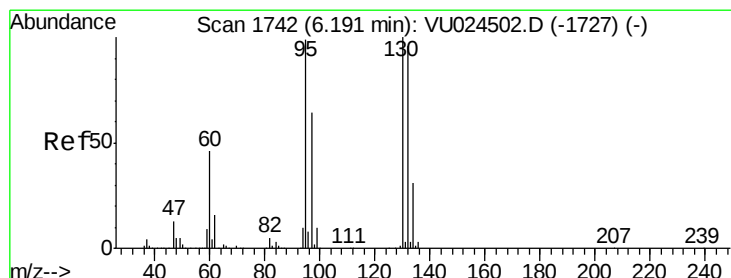
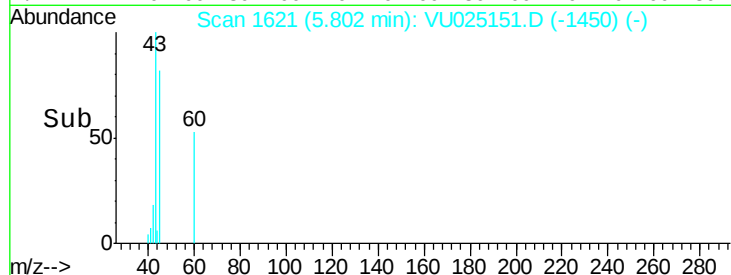
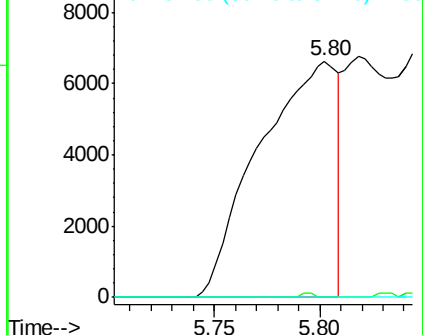
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VU024502.D (-1528) (-)

Ion 61.00 (60.70 to 61.70): VU024502.D (-1528) (-)

Ion 87.00 (86.70 to 87.70): VU024502.D (-1528) (-)



#44

Trichloroethene

Concen: 0.660 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU025151.D

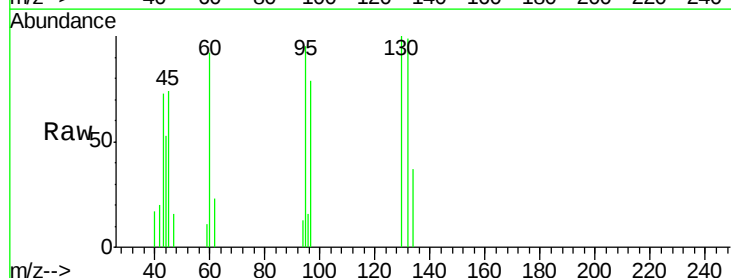
Acq: 02 Jul 2018 18:27

Tgt Ion: 130 Resp: 1968

Ion Ratio Lower Upper

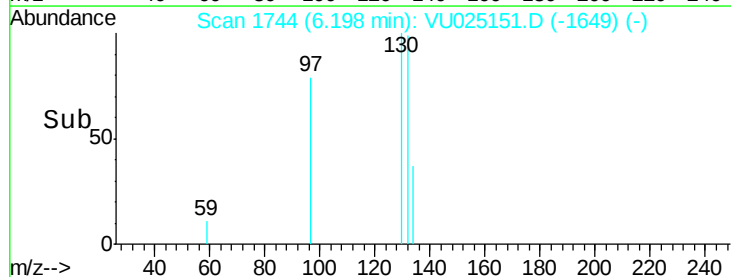
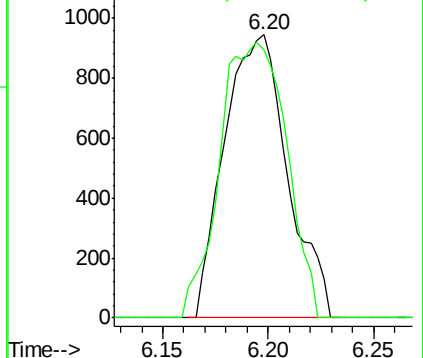
130 100

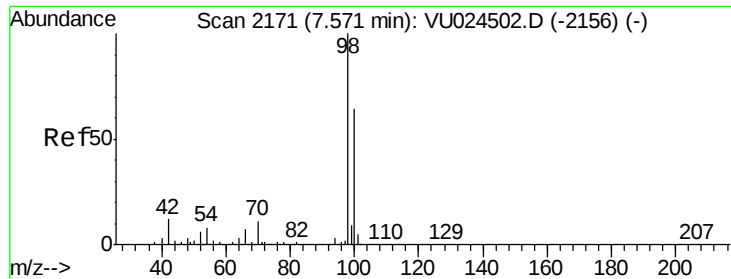
95 94.6 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): VU024502.D (-1727) (-)

Ion 94.90 (94.60 to 95.60): VU024502.D (-1727) (-)





#50

Toluene-d8

Concen: 47.372 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

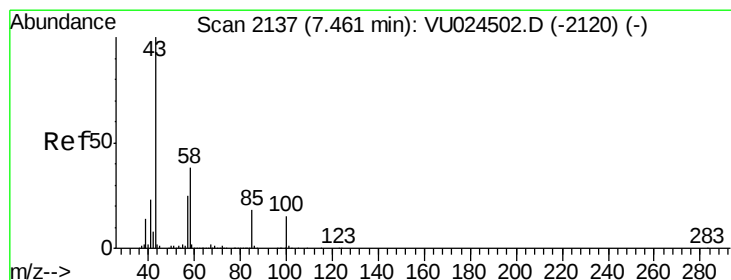
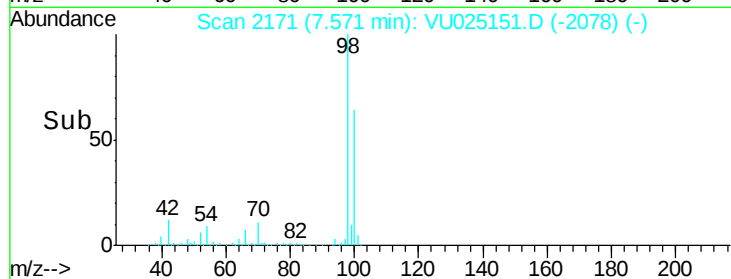
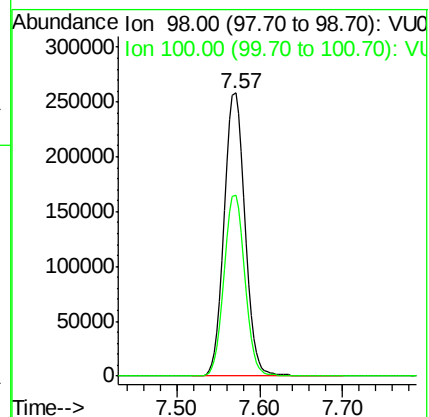
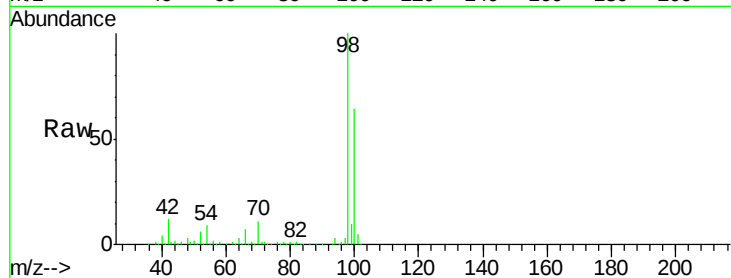
ZER-WC-S-01-0-72

Tot Ion: 98 Resp: 448925

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



#51

4-Methyl-2-Pentanone

Concen: 0.431 ug/l

RT: 7.47 min Scan# 2139

Delta R.T. 0.01 min

Lab File: VU025151.D

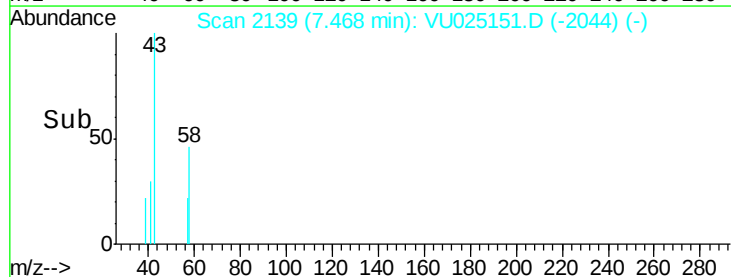
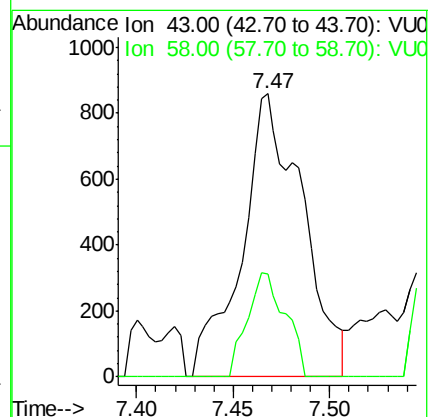
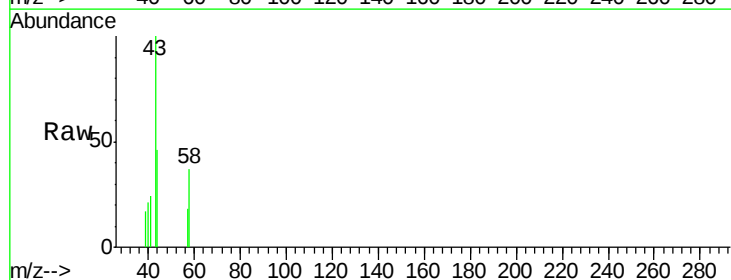
Acq: 02 Jul 2018 18:27

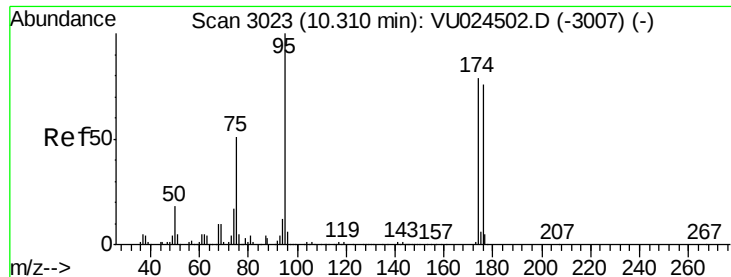
Tgt Ion: 43 Resp: 1876

Ion Ratio Lower Upper

43 100

58 22.9 30.0 45.0#





#62

4-Bromofluorobenzene

Concen: 43.606 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-S-01-0-72

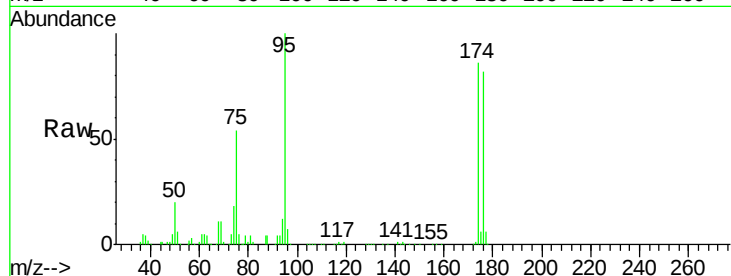
Tot Ion: 95 Resp: 164071

Ion Ratio Lower Upper

95 100

174 86.5 0.0 165.8

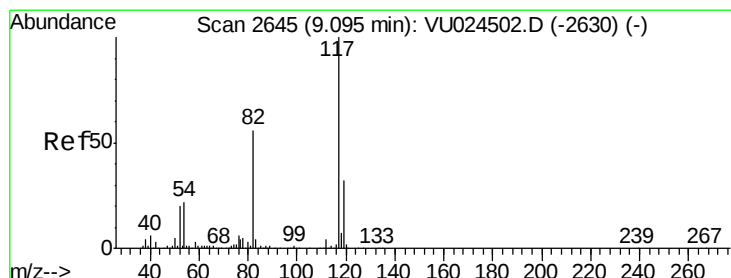
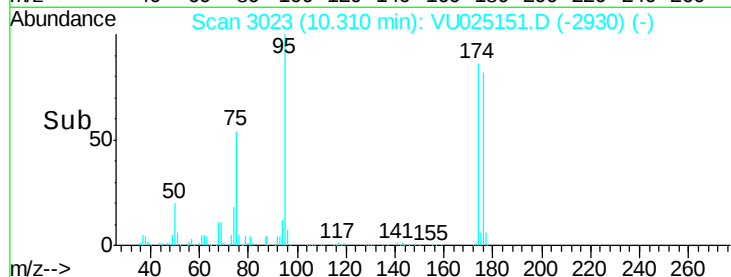
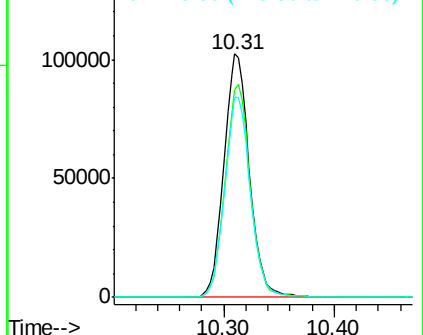
176 83.3 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU025151.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025151.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025151.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

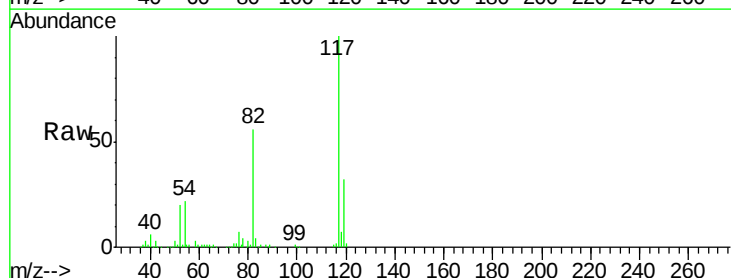
Tgt Ion: 117 Resp: 288678

Ion Ratio Lower Upper

117 100

82 55.7 44.3 66.5

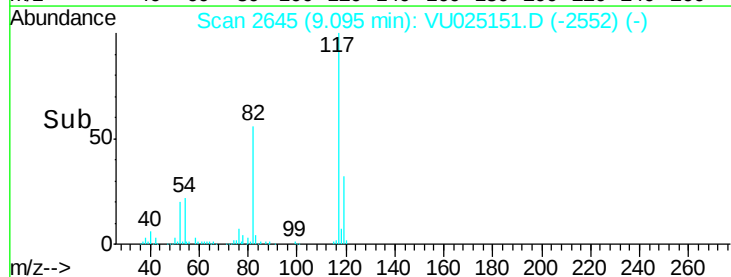
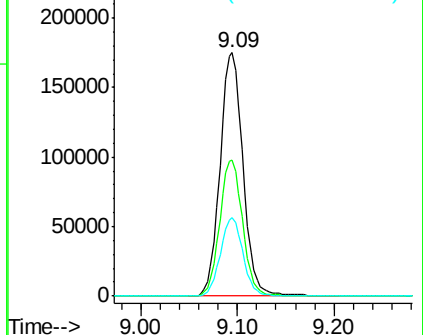
119 32.1 25.4 38.2

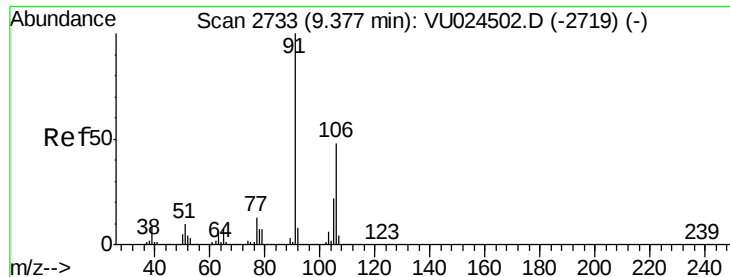


Abundance Ion 116.90 (116.60 to 117.60): VU025151.D (-2552) (-)

Ion 82.00 (81.70 to 82.70): VU025151.D (-2552) (-)

Ion 118.90 (118.60 to 119.60): VU025151.D (-2552) (-)

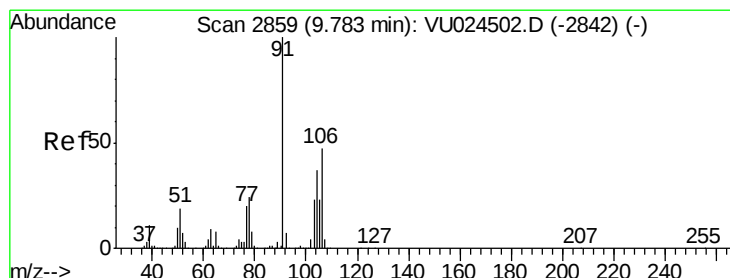
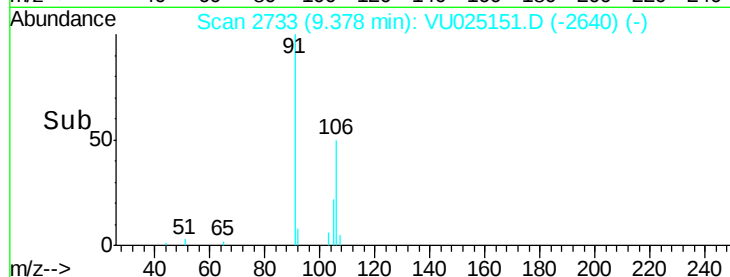
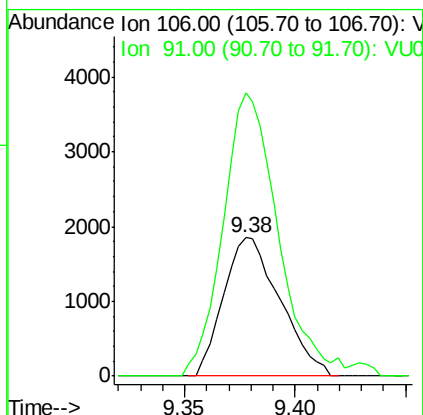
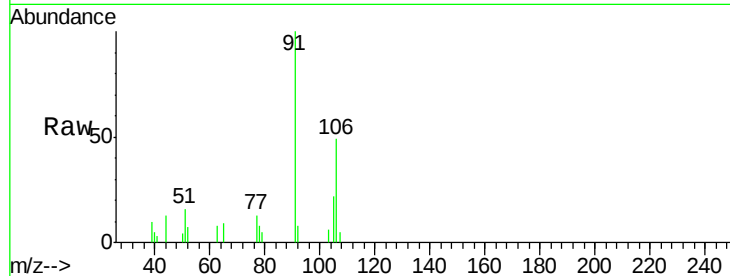




#68
m/p-Xylenes
Concen: 0.661 ug/l
RT: 9.38 min Scan# 2733
Delta R.T. 0.00 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

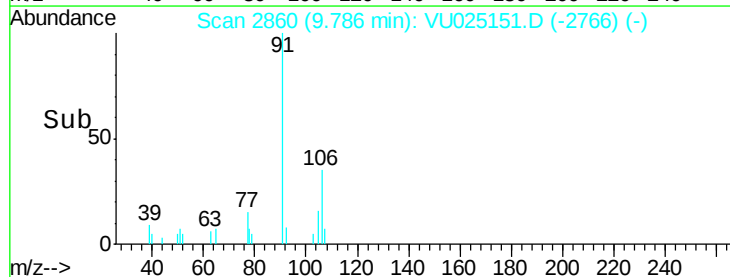
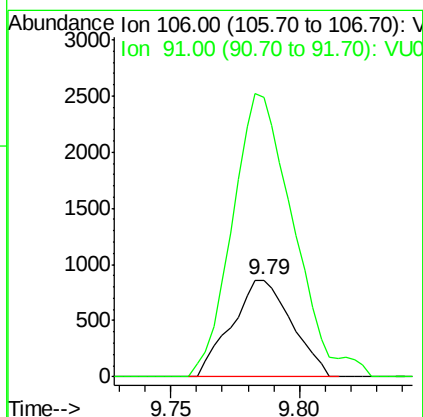
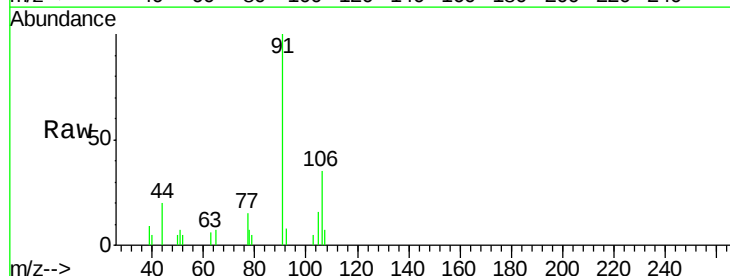
Instrument :
MSVOA_U
ClientSampleId :
ZER-WC-S-01-0-72

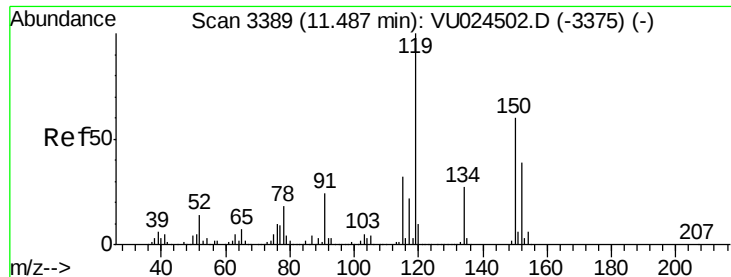
Tot Ion:106 Resp: 3283
Ion Ratio Lower Upper
106 100
91 199.8 166.5 249.7



#69
o-Xylene
Concen: 0.284 ug/l
RT: 9.79 min Scan# 2860
Delta R.T. 0.00 min
Lab File: VU025151.D
Acq: 02 Jul 2018 18:27

Tgt Ion:106 Resp: 1395
Ion Ratio Lower Upper
106 100
91 297.7 110.7 331.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-S-01-0-72

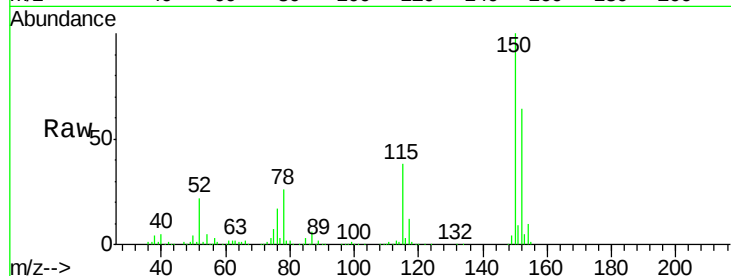
Tot Ion:152 Resp: 150276

Ion Ratio Lower Upper

152 100

115 58.8 43.0 129.0

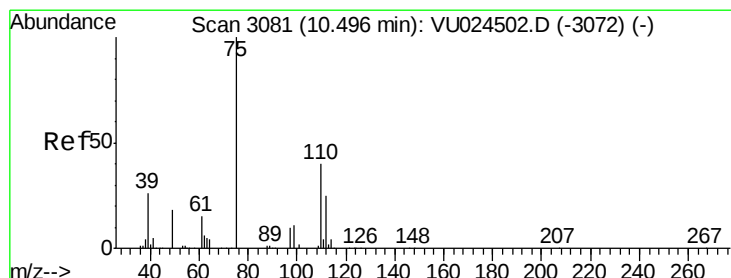
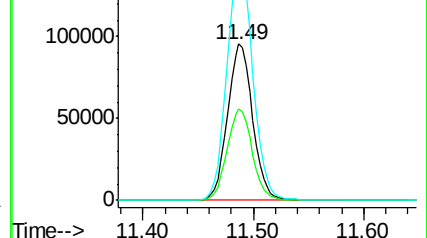
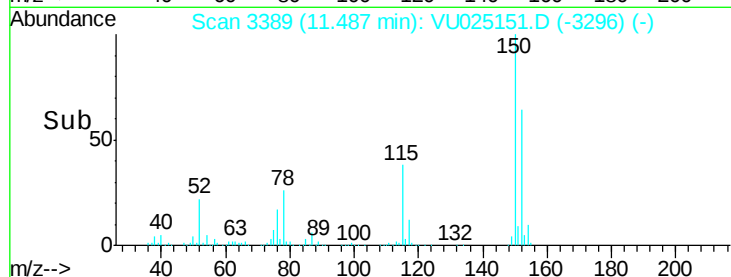
150 158.2 0.0 354.0



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: 26.641 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025151.D

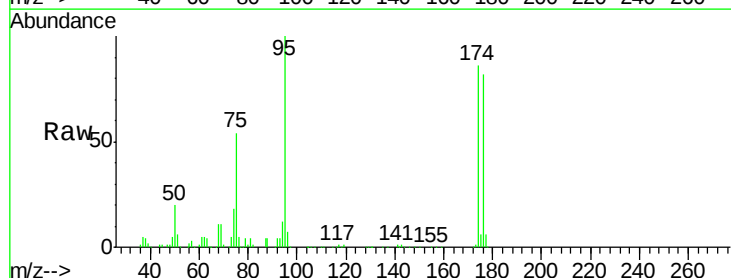
Acq: 02 Jul 2018 18:27

Tgt Ion: 75 Resp: 88144

Ion Ratio Lower Upper

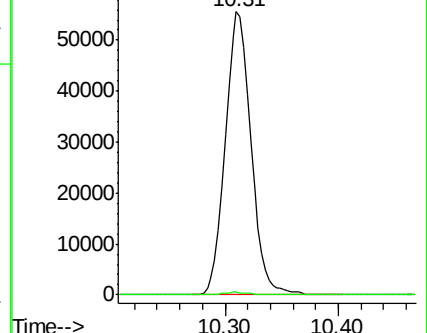
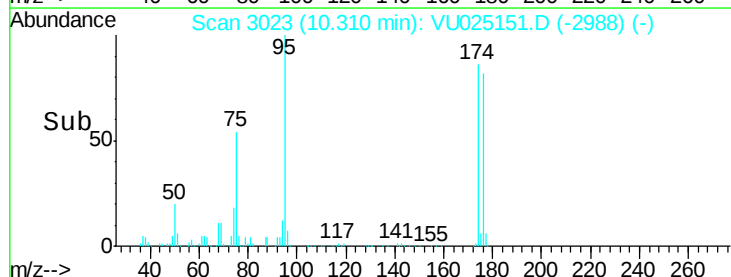
75 100

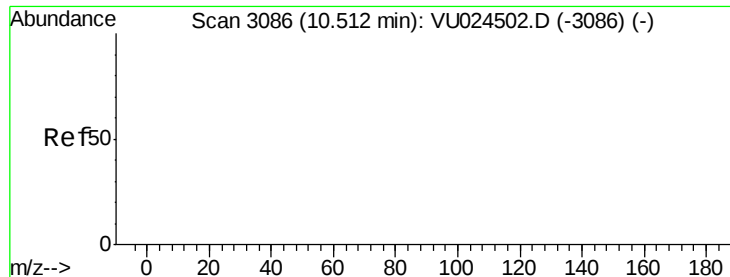
77 0.9 20.9 62.7#



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: 61.659 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

Instrument :

MSVOA_U

ClientSampleId :

ZER-WC-S-01-0-72

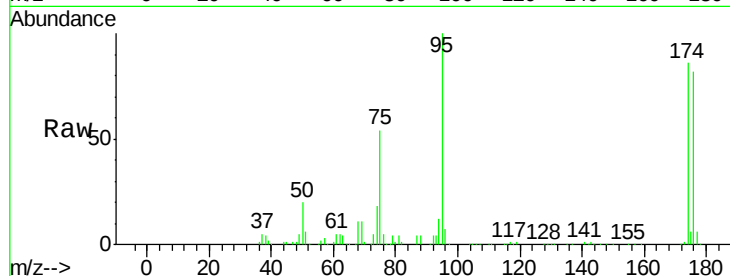
Tot Ion: 75 Resp: 88144

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

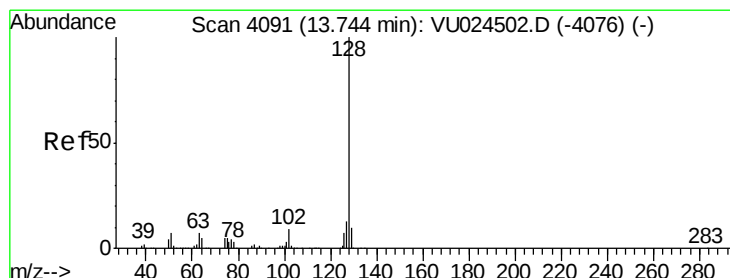
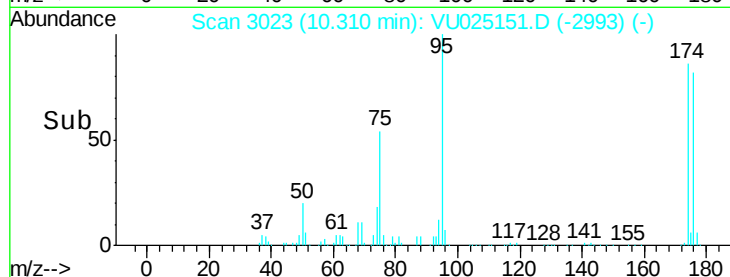
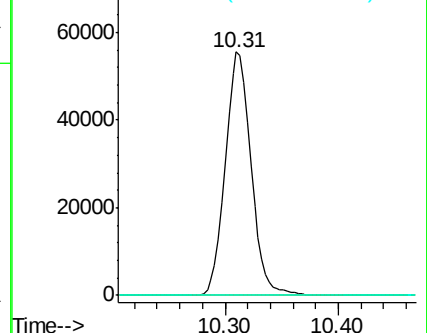
89 0.0 0.0 0.0



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) (-)



#95

Naphthalene

Concen: 29.675 ug/l

RT: 13.75 min Scan# 4092

Delta R.T. 0.00 min

Lab File: VU025151.D

Acq: 02 Jul 2018 18:27

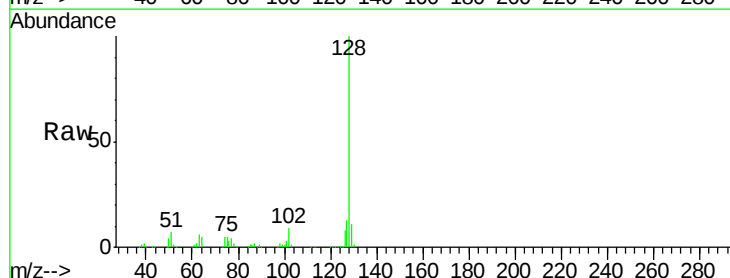
Tgt Ion:128 Resp: 324805

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

129 10.7 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VU024502.D (-4076) (-)

Ion 127.00 (126.70 to 127.70): VU024502.D (-4076) (-)

Ion 129.00 (128.70 to 129.70): VU024502.D (-4076) (-)

