

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071018\
 Data File : VU025288.D
 Acq On : 10 Jul 2018 14:51
 Operator : MD/SY
 Sample : J3905-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1S-070518

Quant Time: Jul 11 02:01:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U070918W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 10 09:34:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	205655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	311906	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	286941	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	146546	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	156908	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
35) Dibromofluoromethane	4.89	113	123032	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	
50) Toluene-d8	7.57	98	448405	49.77	ug/l	0.00
Spiked Amount			Recovery	=	99.54%	
62) 4-Bromofluorobenzene	10.31	95	165917	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	

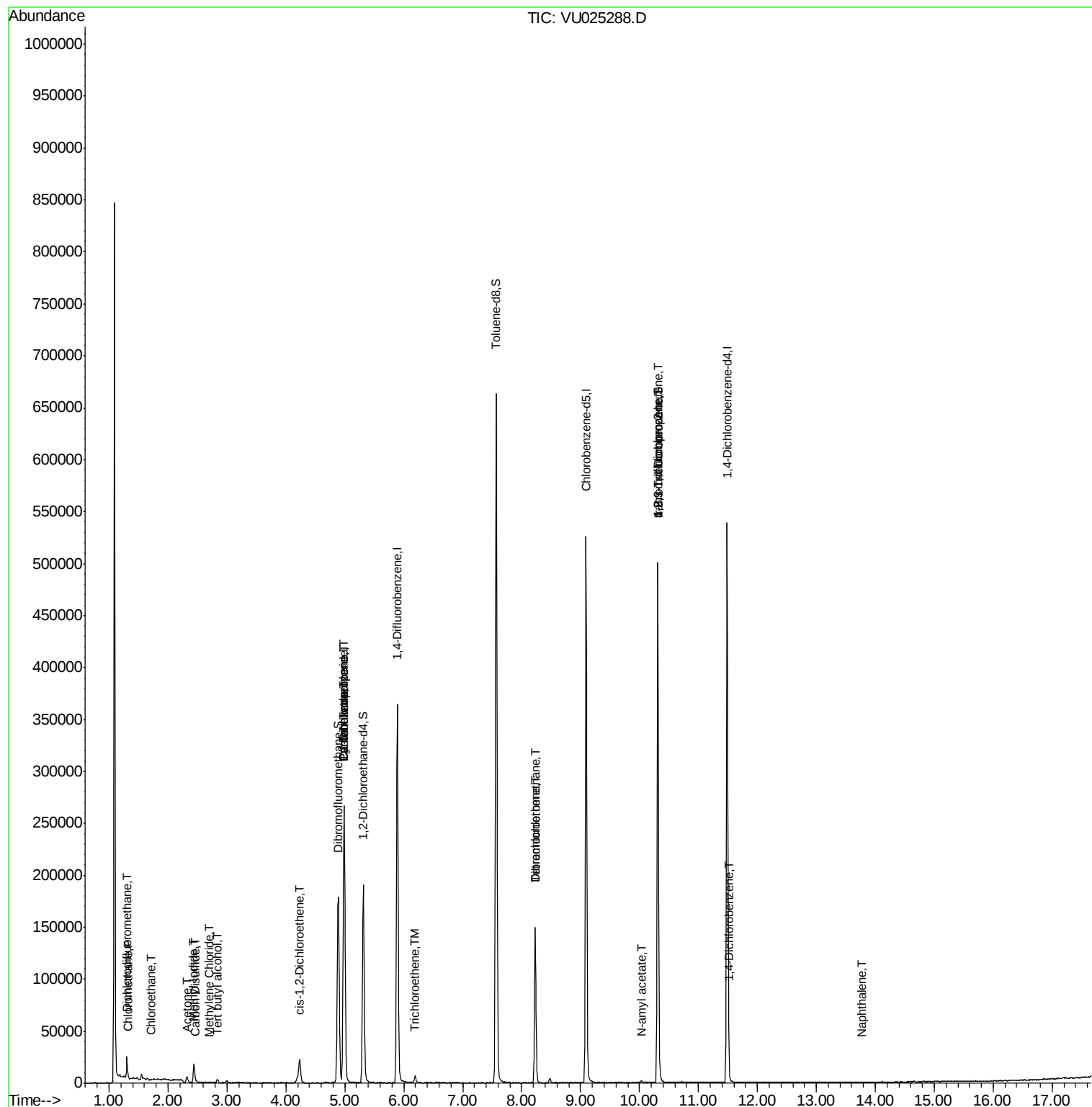
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.30	85	1605	0.75	ug/l	97
3) Chloromethane	1.33	50	712	0.90	ug/l	93
5) Bromomethane	1.64	94	569	Below Cal		82
6) Chloroethane	1.71	64	74	0.34	ug/l #	43
10) Methyl Iodide	2.43	142	400	7.84	ug/l #	39
11) Tert butyl alcohol	2.84	59	2231	3.20	ug/l #	75
16) Acetone	2.32	43	5632	8.25	ug/l	95
17) Carbon Disulfide	2.48	76	392	1.99	ug/l #	74
20) Methylene Chloride	2.71	84	312	0.82	ug/l #	60
27) cis-1,2-Dichloroethene	4.23	96	12326	4.47	ug/l	93
31) Cyclohexane	4.99	56	4185	1.76	ug/l #	27
36) 1,1-Dichloropropene	4.99	75	14986	4.32	ug/l #	50
38) Carbon Tetrachloride	4.99	117	19730	5.29	ug/l #	17
44) Trichloroethene	6.19	130	2344	0.82	ug/l	98
60) Dibromochloromethane	8.23	129	32495	11.36	ug/l #	11
64) Tetrachloroethene	8.23	164	33999	13.00	ug/l	96
74) N-amyl acetate	10.04	43	448	1.36	ug/l #	39
76) 1,2,3-Trichloropropane	10.31	75	85839	28.76	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	85839	73.52	ug/l #	100
88) 1,4-Dichlorobenzene	11.52	146	99	1.51	ug/l #	25
95) Naphthalene	13.78	128	278	2.44	ug/l #	69

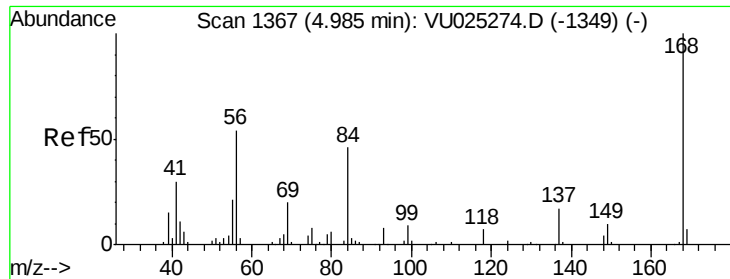
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU071018\
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U070918W.M
Quant Title : SW846 8260
QLast Update : Tue Jul 10 09:34:16 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

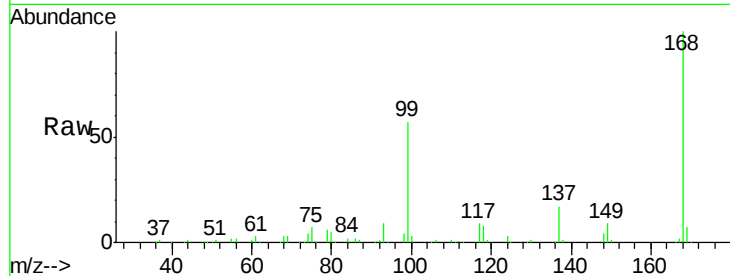
MW-1S-070518

Tot Ion:168 Resp: 205655

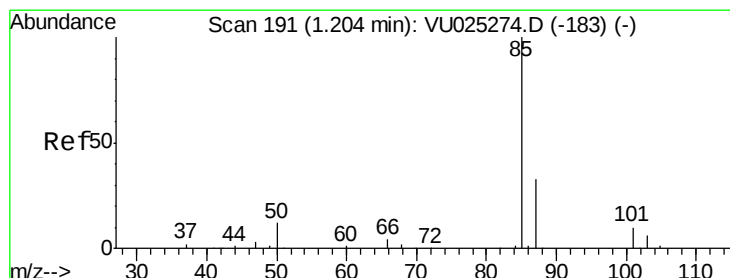
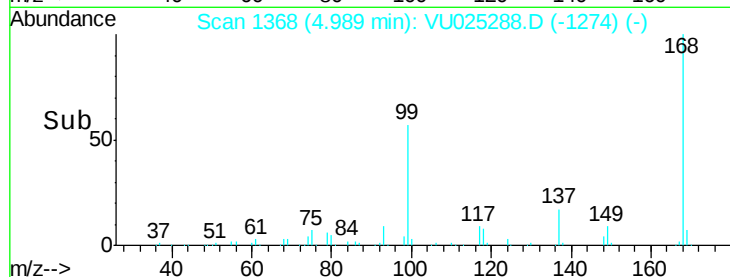
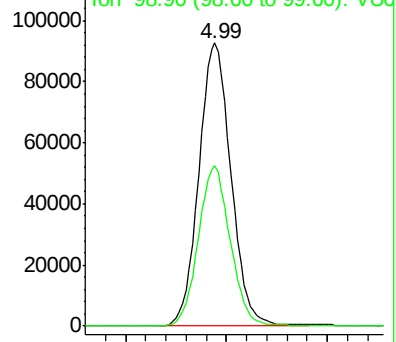
Ion Ratio Lower Upper

168 100

99 56.6 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): VU025274.D (-1349) (-)



#2

Dichlorodifluoromethane

Concen: 0.75 ug/l

RT: 1.30 min Scan# 222

Delta R.T. 0.10 min

Lab File: VU025288.D

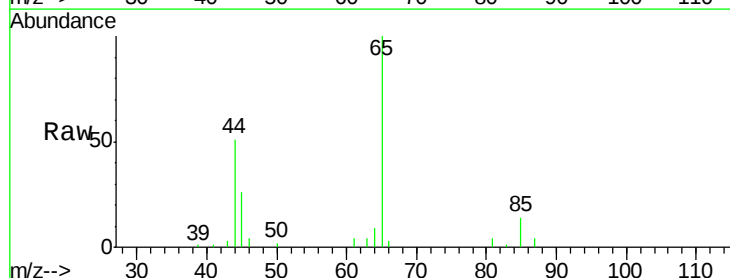
Acq: 10 Jul 2018 14:51

Tgt Ion: 85 Resp: 1605

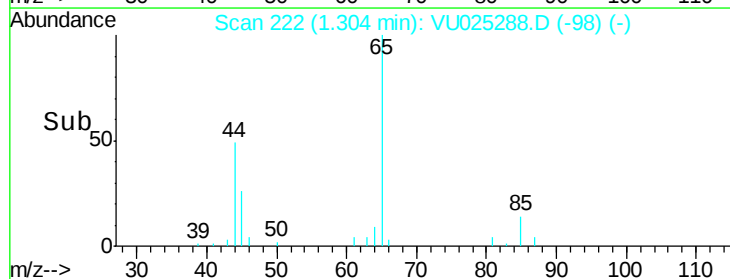
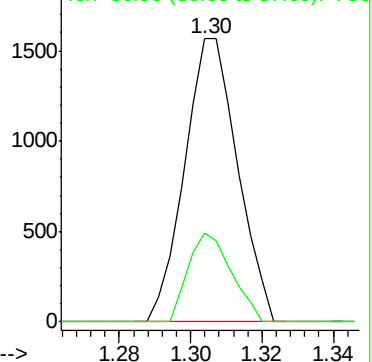
Ion Ratio Lower Upper

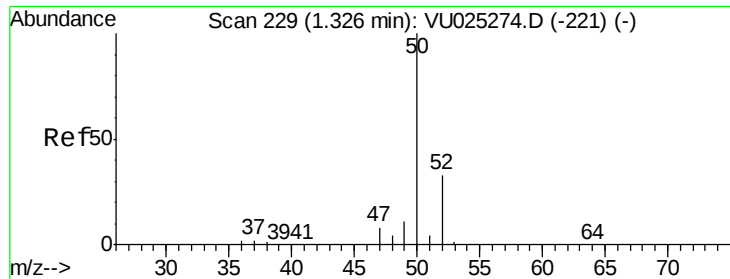
85 100

87 31.5 16.5 49.5



Abundance Ion 84.90 (84.60 to 85.60): VU025274.D (-183) (-)





#3

Chloromethane

Concen: 0.90 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

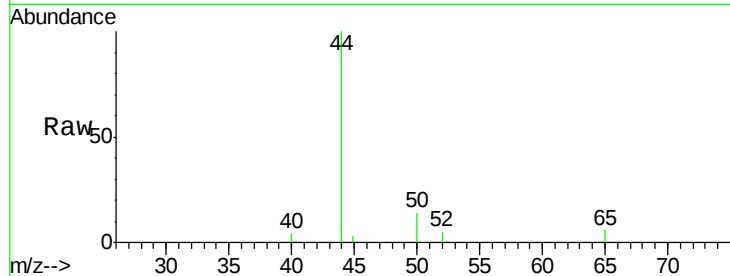
MW-1S-070518

Tot Ion: 50 Resp: 712

Ion Ratio Lower Upper

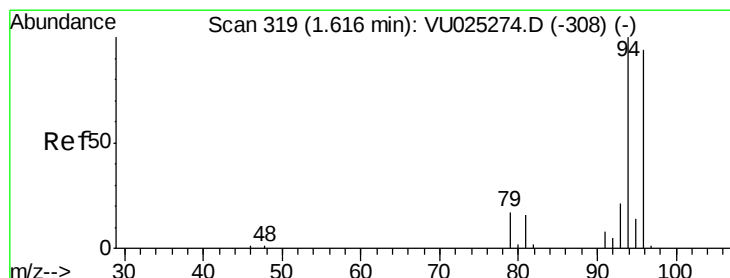
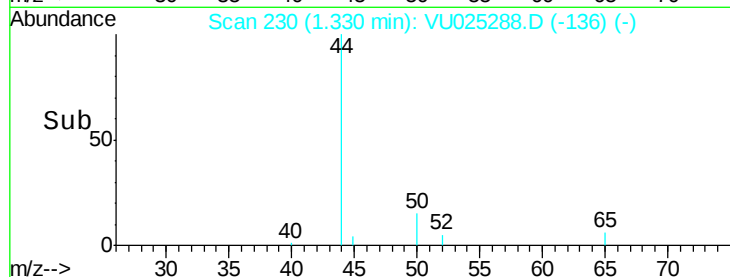
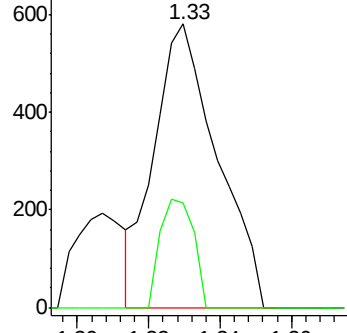
50 100

52 36.8 26.5 39.7



Abundance Ion 49.90 (49.60 to 50.60): VU0

Ion 51.90 (51.60 to 52.60): VU0



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 328

Delta R.T. 0.03 min

Lab File: VU025288.D

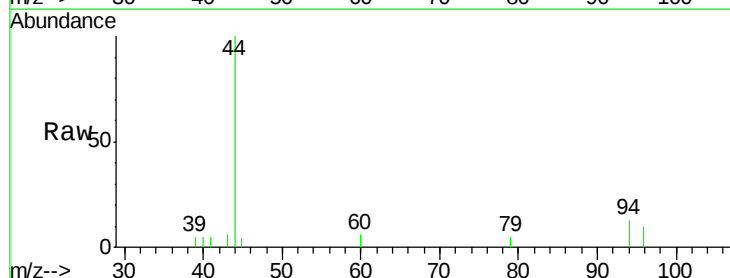
Acq: 10 Jul 2018 14:51

Tgt Ion: 94 Resp: 569

Ion Ratio Lower Upper

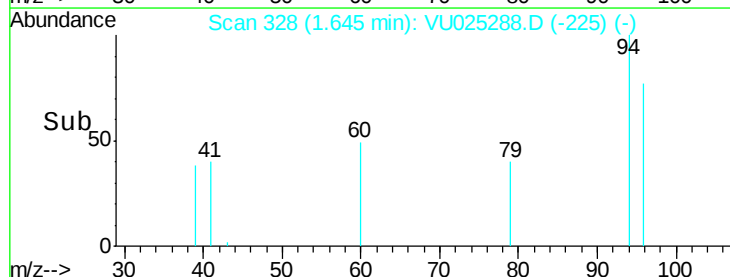
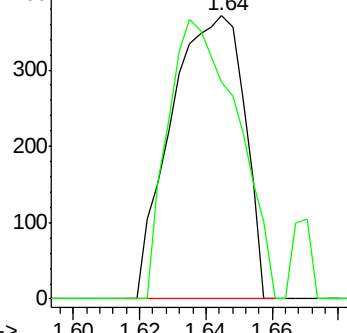
94 100

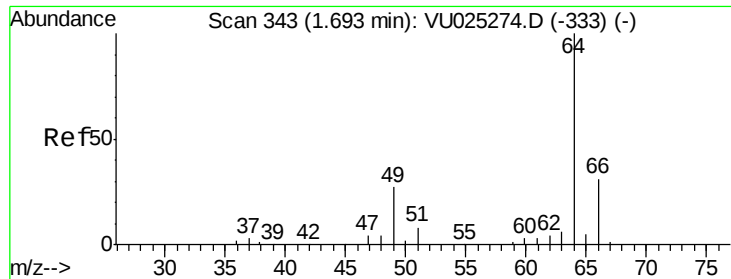
96 76.5 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0





#6

Chloroethane

Concen: 0.34 ug/l

RT: 1.71 min Scan# 348

Delta R.T. 0.02 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

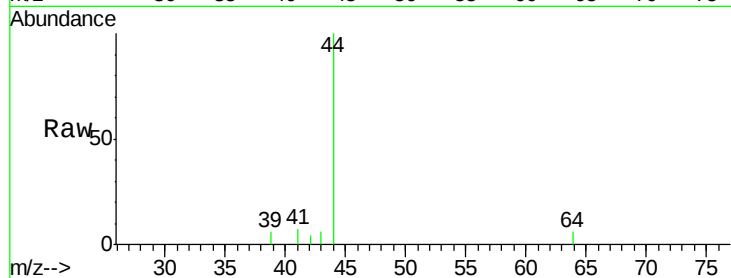
MW-1S-070518

Tot Ion: 64 Resp: 74

Ion Ratio Lower Upper

64 100

66 0.0 25.0 37.4#



Abundance Ion 63.90 (63.60 to 64.60): VU025274.D (-333) (-)

Ion 65.90 (65.60 to 66.60): VU025274.D (-333) (-)

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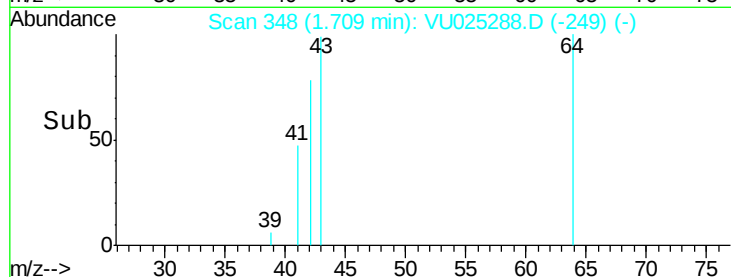
1.71

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1.71



#10

Methyl Iodide

Concen: 7.84 ug/l

RT: 2.43 min Scan# 571

Delta R.T. 0.01 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

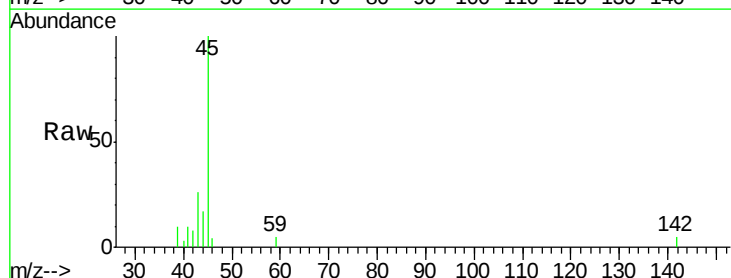
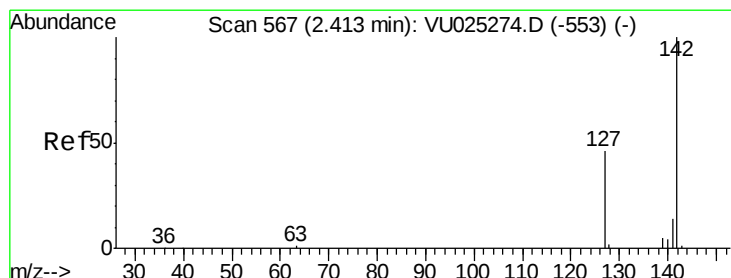
Tgt Ion:142 Resp: 400

Ion Ratio Lower Upper

142 100

127 0.0 36.5 54.7#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): VU025274.D (-553) (-)

Ion 126.80 (126.50 to 127.50): VU025274.D (-553) (-)

Ion 140.80 (140.50 to 141.50): VU025274.D (-553) (-)

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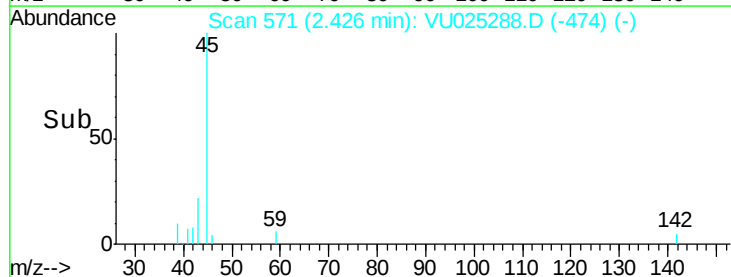
2.43

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#10

Methyl Iodide

Concen: 7.84 ug/l

RT: 2.43 min Scan# 571

Delta R.T. 0.01 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

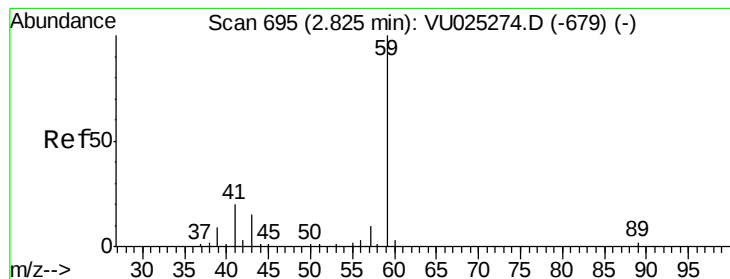
Tgt Ion:142 Resp: 400

Ion Ratio Lower Upper

142 100

127 0.0 36.5 54.7#

141 0.0 11.4 17.2#

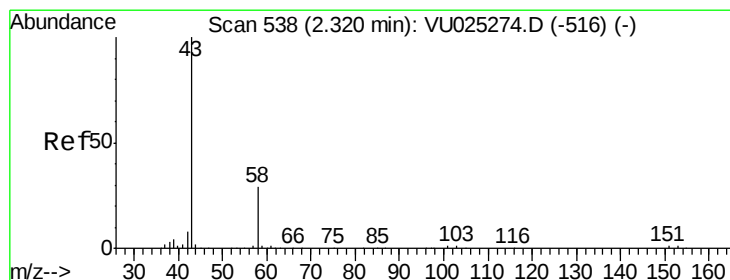
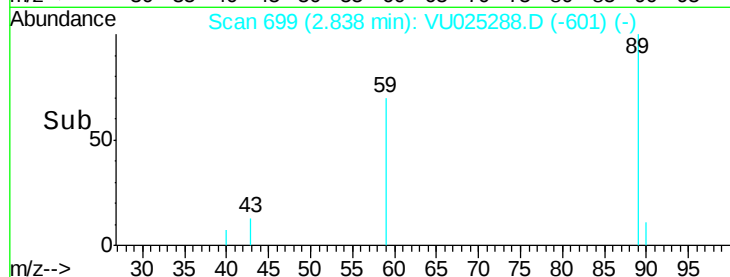
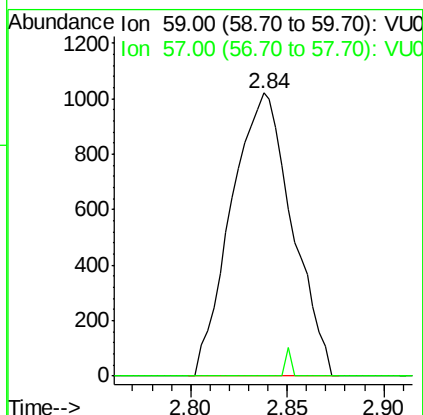
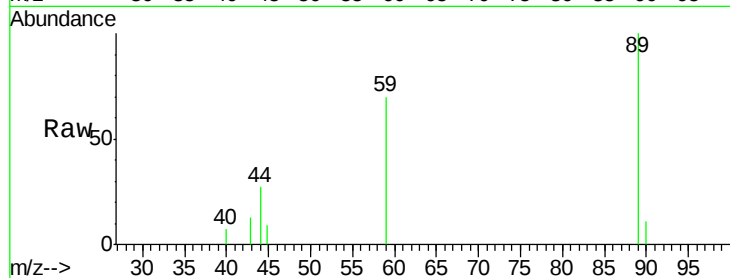


#11

Tert butyl alcohol
 Concen: 3.20 ug/l
 RT: 2.84 min Scan# 699
 Delta R.T. 0.01 min
 Lab File: VU025288.D
 Acq: 10 Jul 2018 14:51

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1S-070518

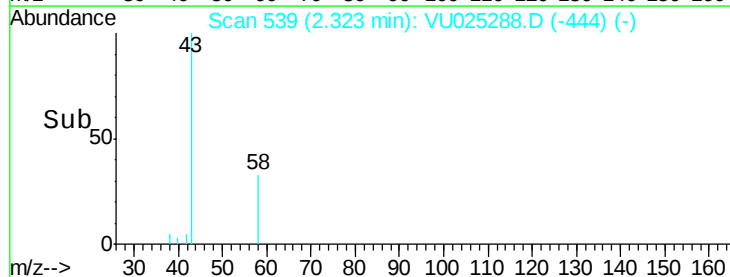
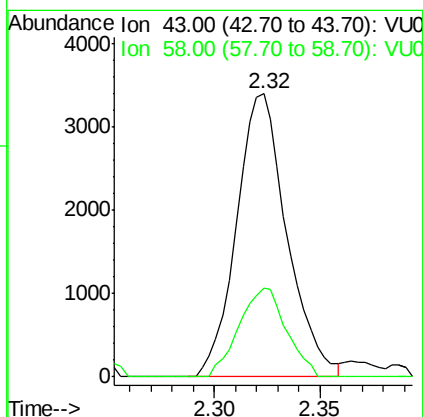
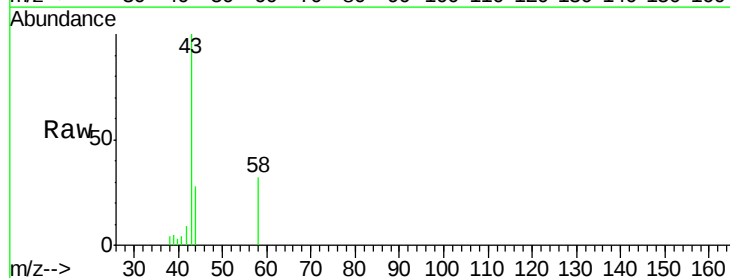
Tot Ion: 59 Resp: 2231
 Ion Ratio Lower Upper
 59 100
 57 0.9 8.2 12.2#

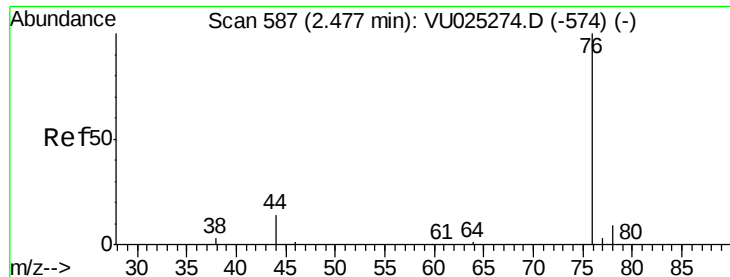


#16

Acetone
 Concen: 8.25 ug/l
 RT: 2.32 min Scan# 539
 Delta R.T. 0.00 min
 Lab File: VU025288.D
 Acq: 10 Jul 2018 14:51

Tgt Ion: 43 Resp: 5632
 Ion Ratio Lower Upper
 43 100
 58 31.5 23.1 34.7





#17

Carbon Disulfide

Concen: 1.99 ug/l

RT: 2.48 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

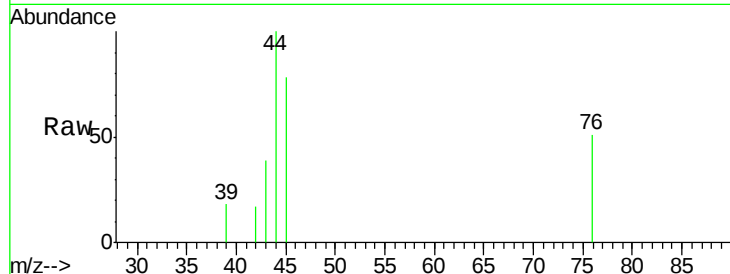
MW-1S-070518

Tot Ion: 76 Resp: 392

Ion Ratio Lower Upper

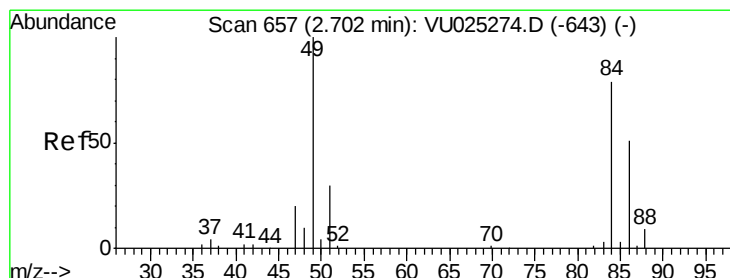
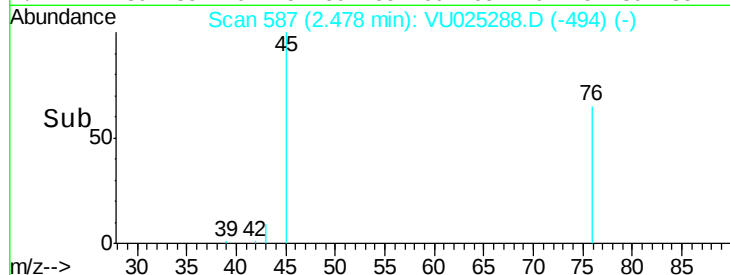
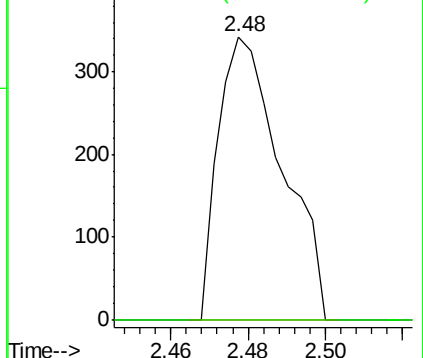
76 100

78 0.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#20

Methylene Chloride

Concen: 0.82 ug/l

RT: 2.71 min Scan# 660

Delta R.T. 0.01 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Tgt Ion: 84 Resp: 312

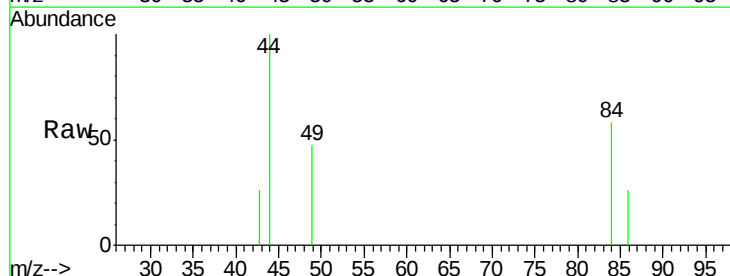
Ion Ratio Lower Upper

84 100

49 80.5 101.8 152.6#

51 0.0 30.8 46.2#

86 44.8 51.9 77.9#

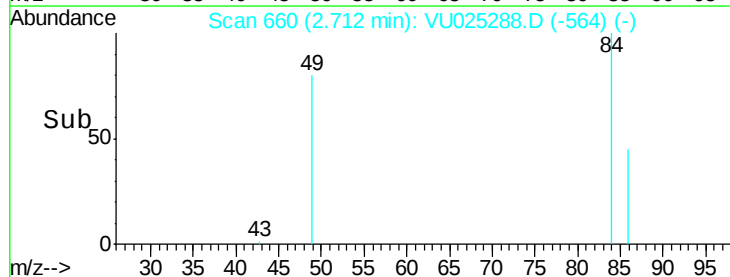
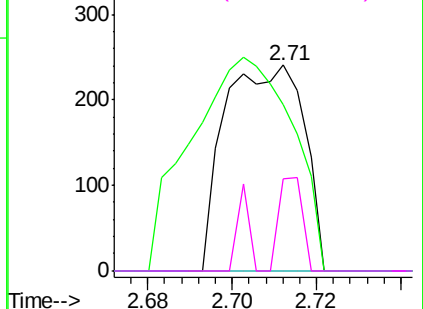


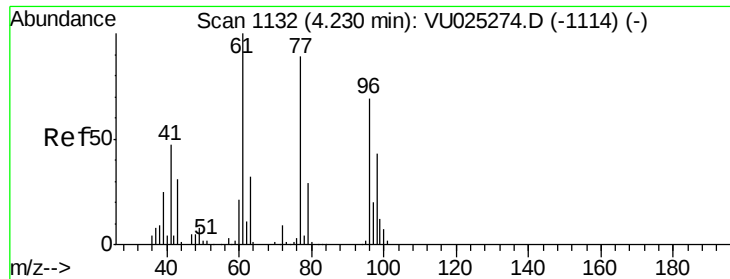
Abundance Ion 83.90 (83.60 to 84.60): VU0

Ion 48.90 (48.60 to 49.60): VU0

Ion 50.90 (50.60 to 51.60): VU0

Ion 85.90 (85.60 to 86.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 4.47 ug/l

RT: 4.23 min Scan# 1133

Delta R.T. 0.00 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :
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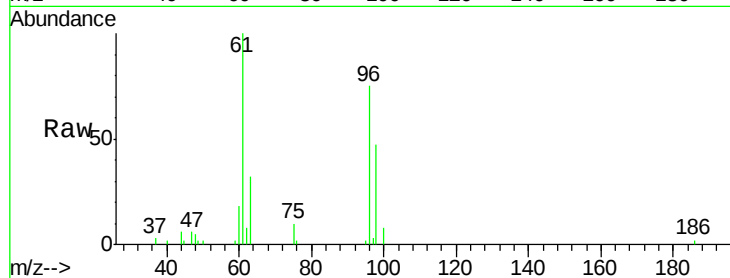
Tot Ion: 96 Resp: 12326

Ion Ratio Lower Upper

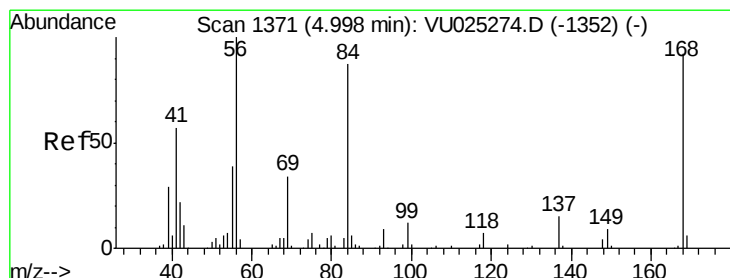
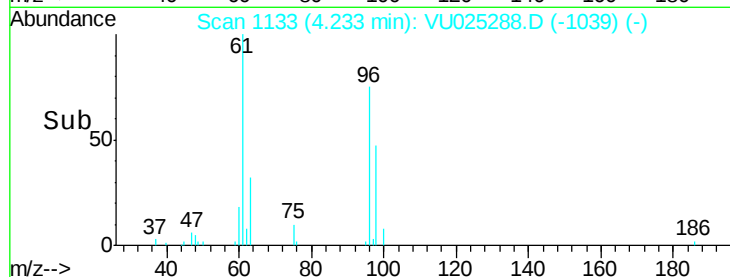
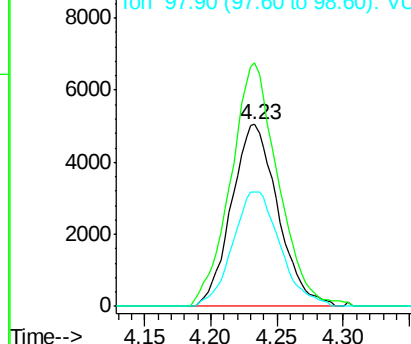
96 100

61 136.4 0.0 299.8

98 64.2 0.0 128.6



Abundance Ion 95.90 (95.60 to 96.60): VU0
Ion 60.90 (60.60 to 61.60): VU0
Ion 97.90 (97.60 to 98.60): VU0



#31

Cyclohexane

Concen: 1.76 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. -0.01 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

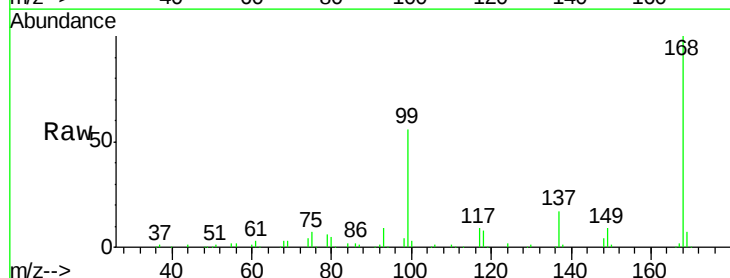
Tgt Ion: 56 Resp: 4185

Ion Ratio Lower Upper

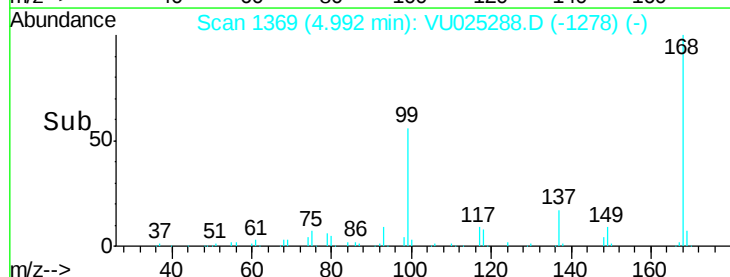
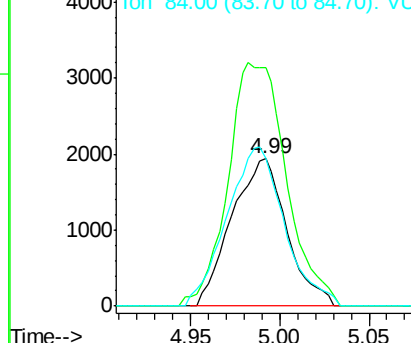
56 100

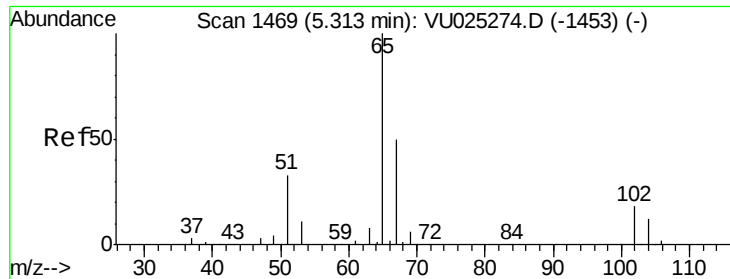
69 162.1 26.8 40.2#

84 100.1 69.7 104.5



Abundance Ion 56.00 (55.70 to 56.70): VU0
Ion 69.00 (68.70 to 69.70): VU0
Ion 84.00 (83.70 to 84.70): VU0

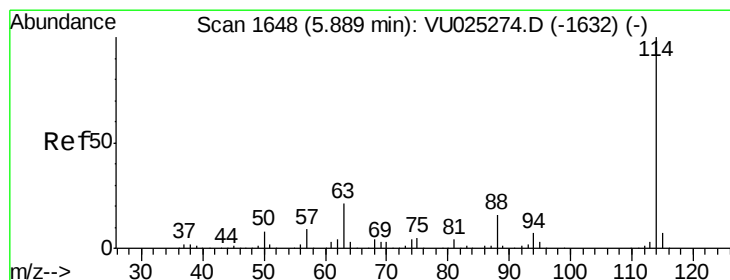
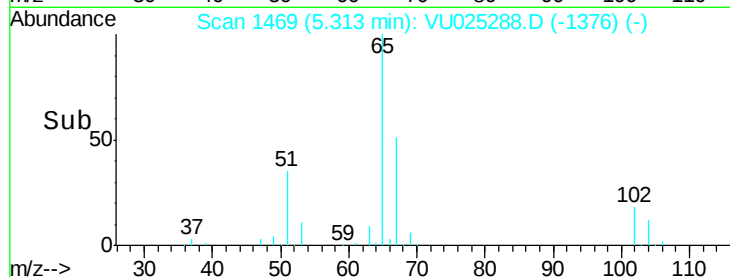
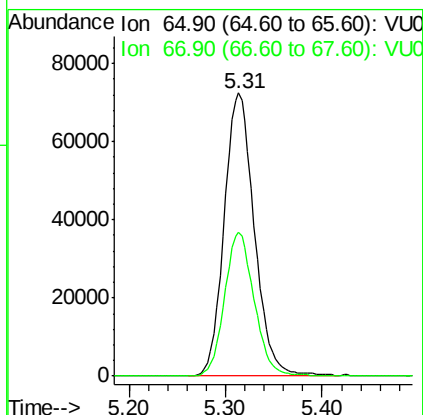
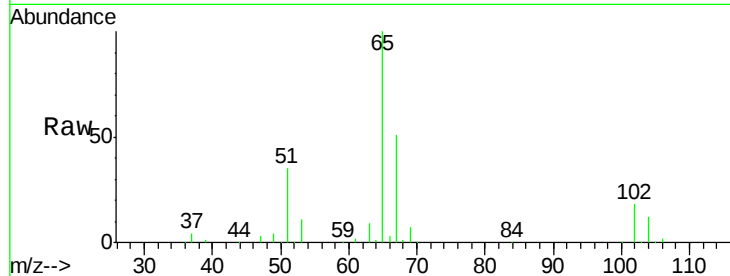




#33
 1,2-Dichloroethane-d4
 Concen: 49.11 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU025288.D
 Acq: 10 Jul 2018 14:51

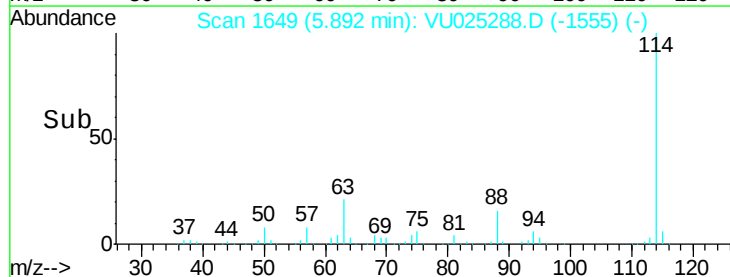
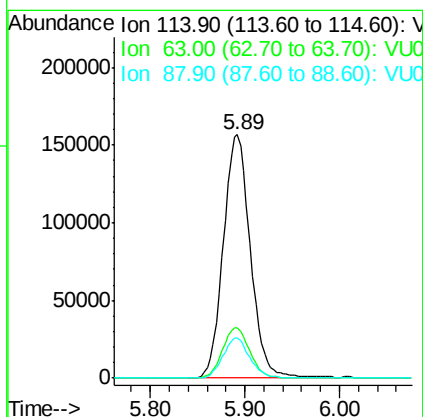
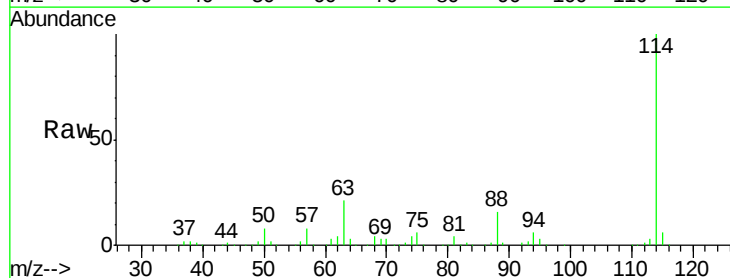
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-1S-070518

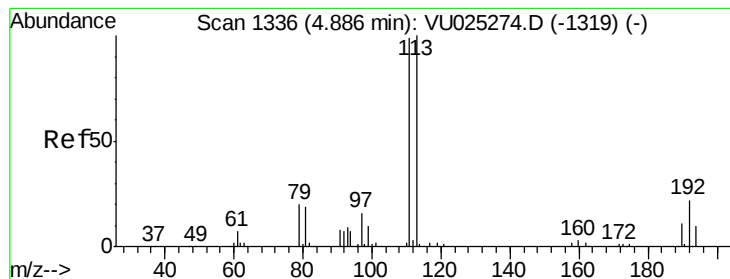
Tot Ion: 65 Resp: 156908
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU025288.D
 Acq: 10 Jul 2018 14:51

Tgt Ion: 114 Resp: 311906
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 41.6
 88 16.4 0.0 32.4





#35

Dibromofluoromethane

Concen: 46.76 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

MW-1S-070518

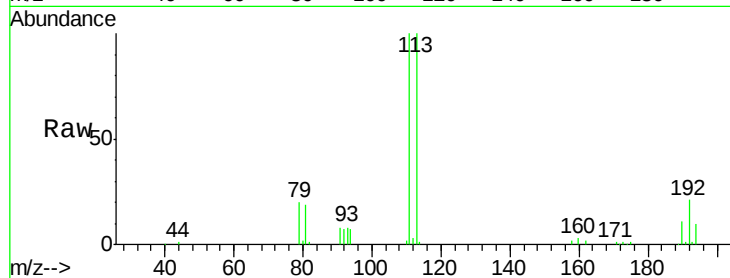
Tot Ion:113 Resp: 123032

Ion Ratio Lower Upper

113 100

111 102.0 81.7 122.5

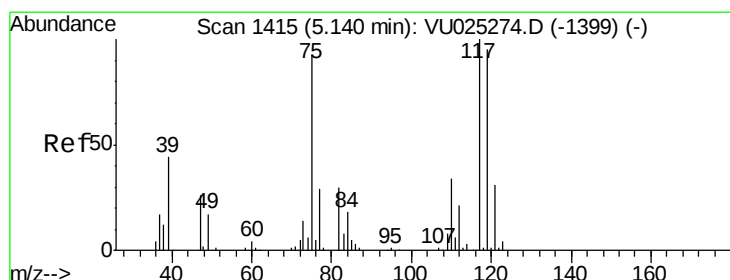
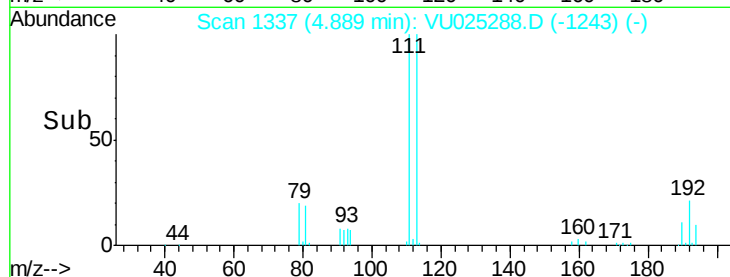
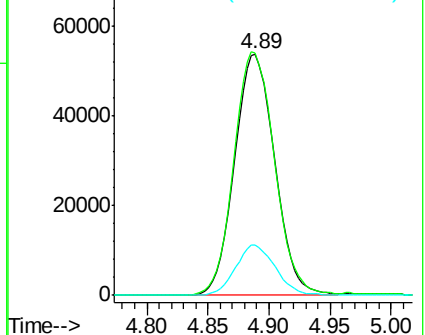
192 20.6 17.1 25.7



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: 4.32 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

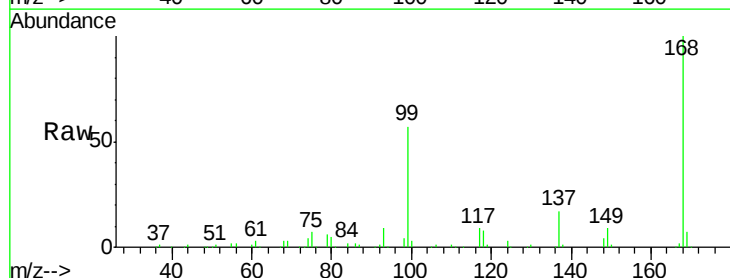
Tgt Ion: 75 Resp: 14986

Ion Ratio Lower Upper

75 100

110 8.9 17.6 52.9#

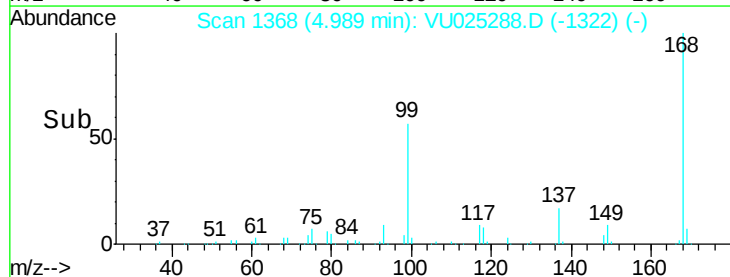
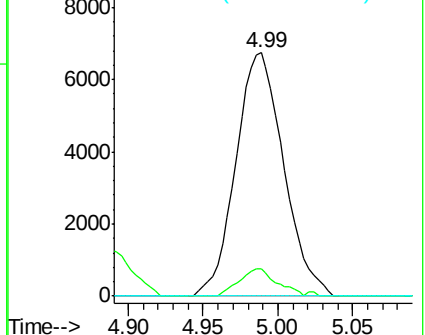
77 0.0 24.4 36.6#

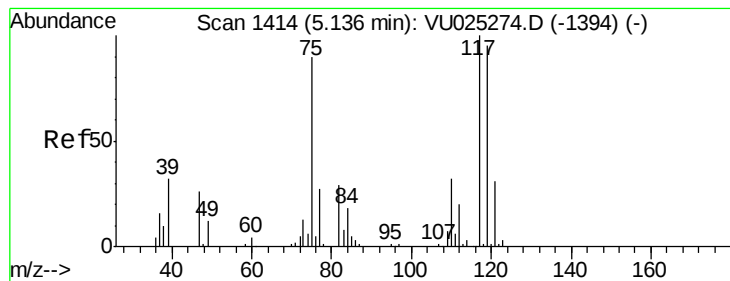


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 5.29 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

MW-1S-070518

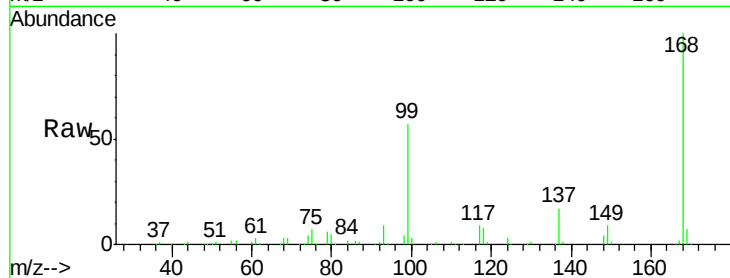
Tot Ion:117 Resp: 19730

Ion Ratio Lower Upper

117 100

119 5.3 75.7 113.5#

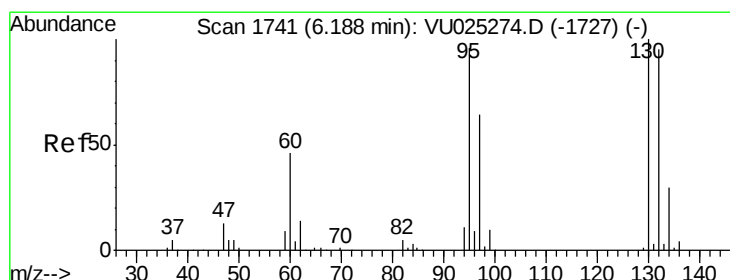
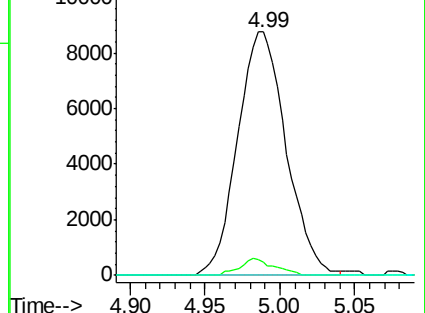
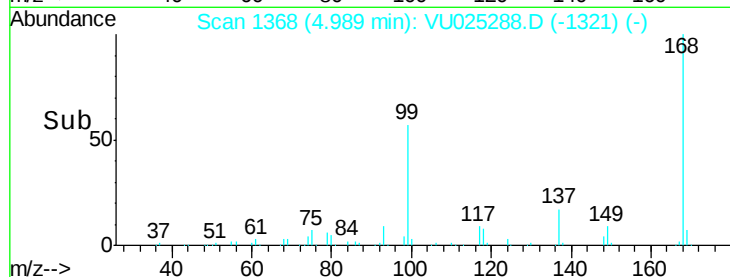
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.82 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VU025288.D

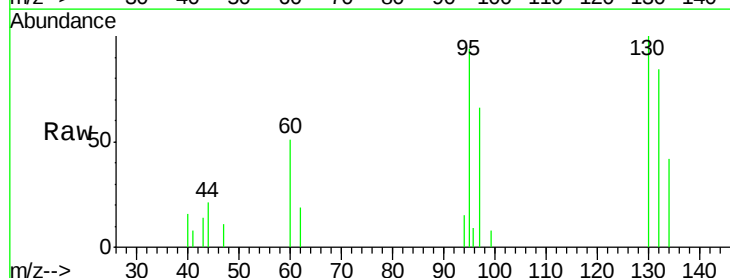
Acq: 10 Jul 2018 14:51

Tgt Ion:130 Resp: 2344

Ion Ratio Lower Upper

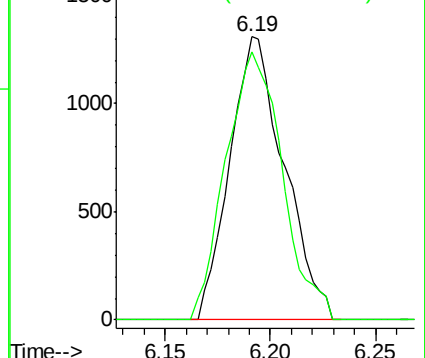
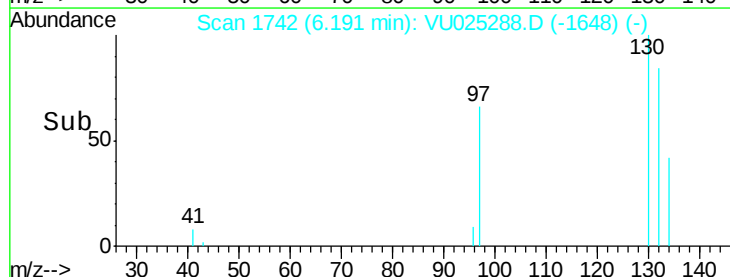
130 100

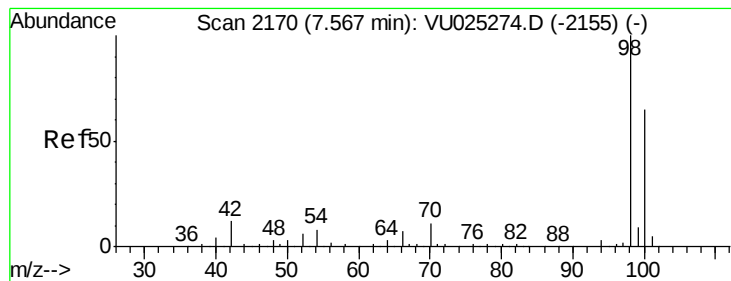
95 94.5 0.0 192.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 49.77 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. 0.00 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

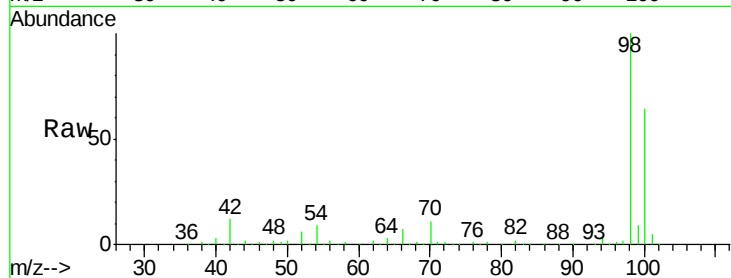
MW-1S-070518

Tot Ion: 98 Resp: 448405

Ion Ratio Lower Upper

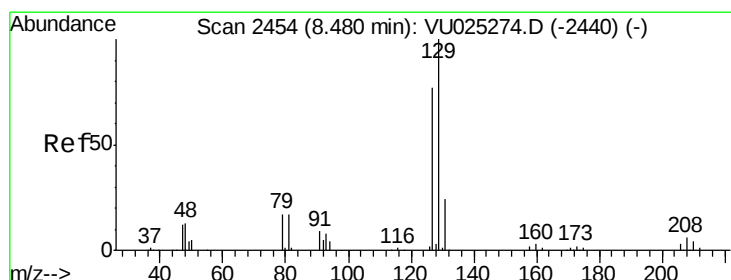
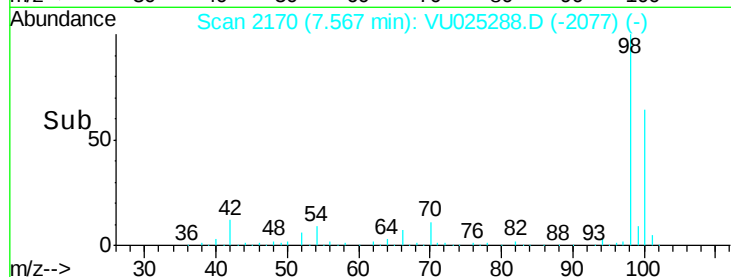
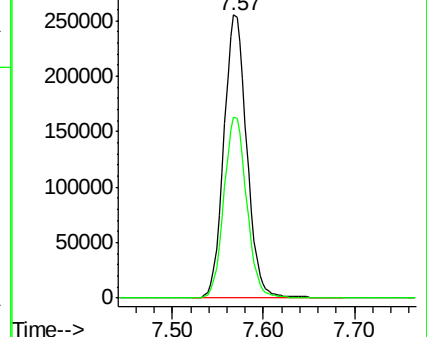
98 100

100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU025288.D (-2077) (-)

Ion 100.00 (99.70 to 100.70): VU025288.D (-2077) (-)



#60

Dibromochloromethane

Concen: 11.36 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU025288.D

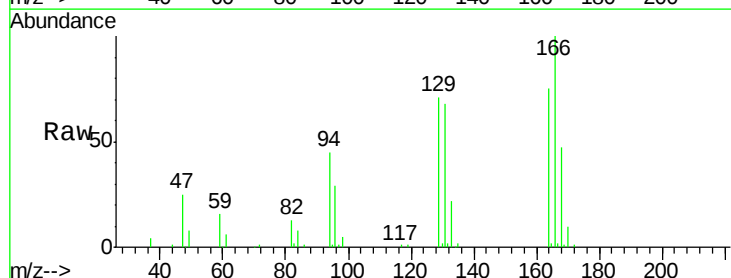
Acq: 10 Jul 2018 14:51

Tgt Ion: 129 Resp: 32495

Ion Ratio Lower Upper

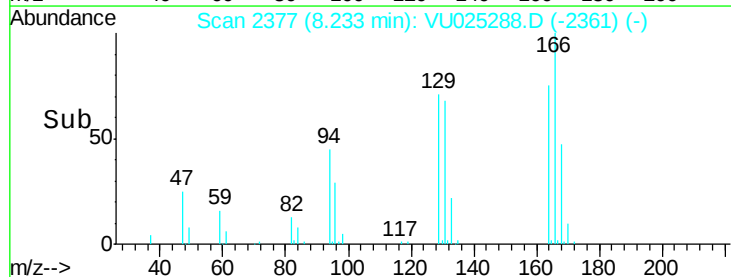
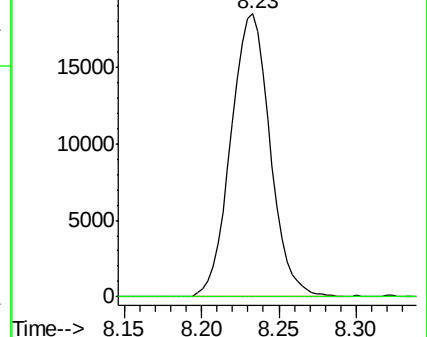
129 100

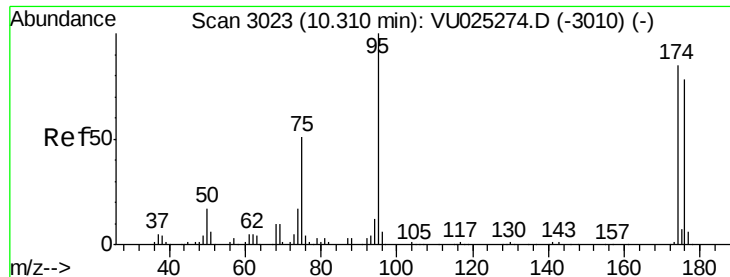
127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VU025288.D (-2361) (-)

Ion 126.80 (126.50 to 127.50): VU025288.D (-2361) (-)





#62

4-Bromofluorobenzene

Concen: 45.74 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

MW-1S-070518

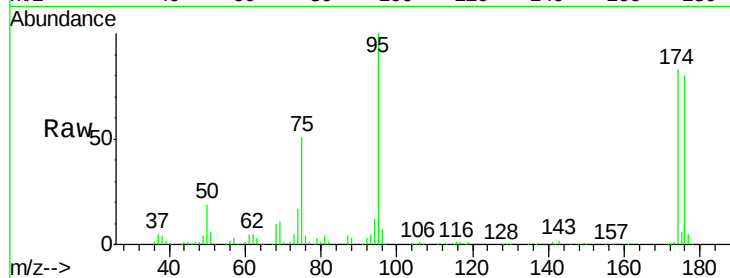
Tot Ion: 95 Resp: 165917

Ion Ratio Lower Upper

95 100

174 84.1 0.0 172.2

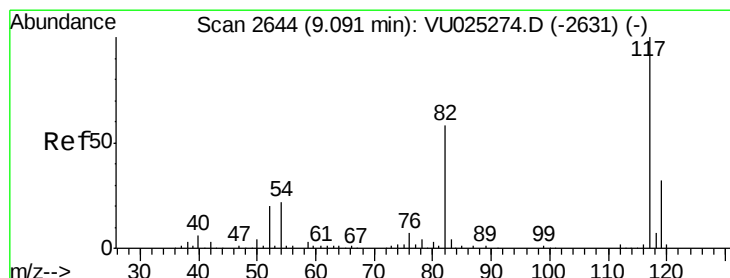
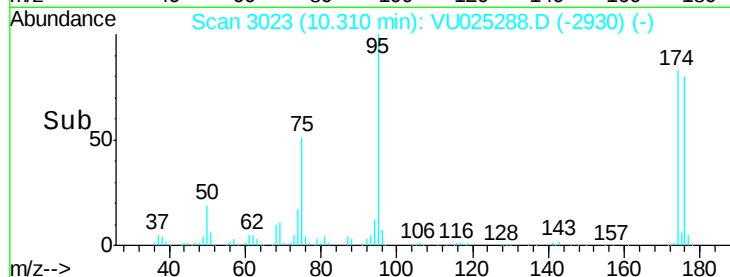
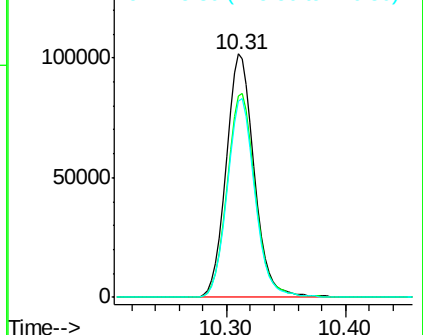
176 80.8 0.0 162.6



Abundance Ion 94.90 (94.60 to 95.60): VU025288.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU025288.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU025288.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 9.09 min Scan# 2644

Delta R.T. 0.00 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

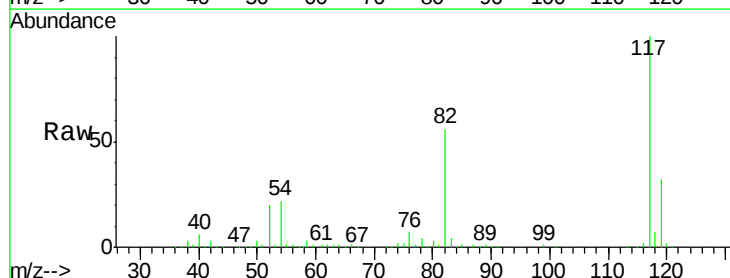
Tgt Ion: 117 Resp: 286941

Ion Ratio Lower Upper

117 100

82 55.8 46.0 69.0

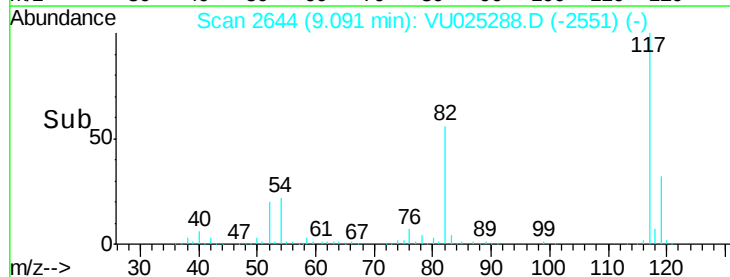
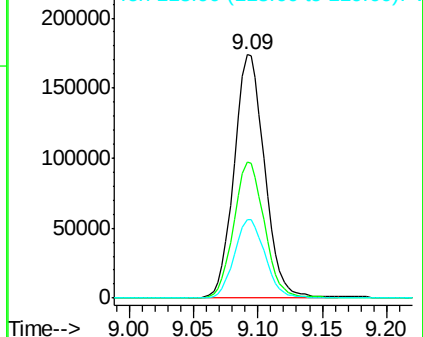
119 32.3 26.0 39.0

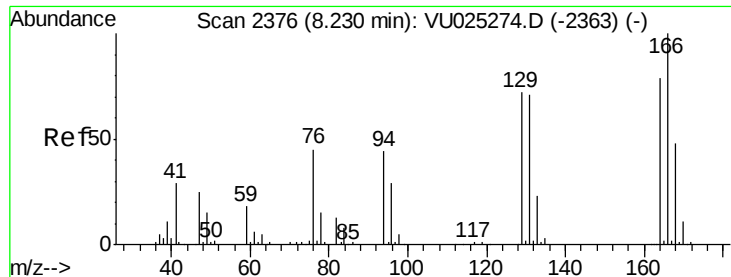


Abundance Ion 116.90 (116.60 to 117.60): VU025288.D (-2551) (-)

Ion 82.00 (81.70 to 82.70): VU025288.D (-2551) (-)

Ion 118.90 (118.60 to 119.60): VU025288.D (-2551) (-)

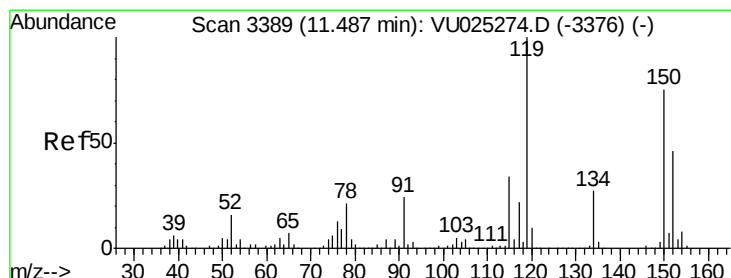
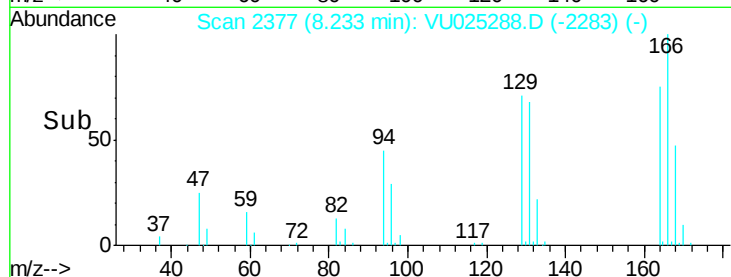
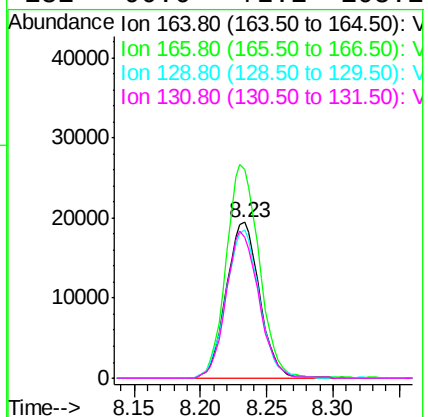
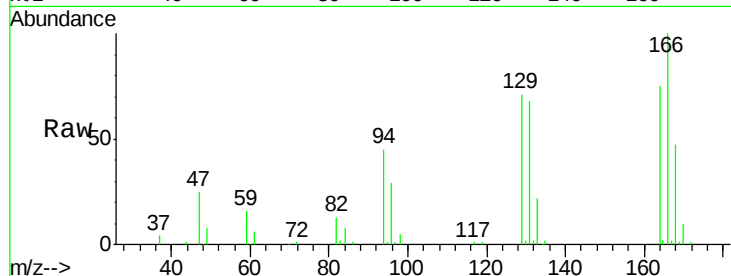




#64
Tetrachloroethene
Concen: 13.00 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU025288.D
Acq: 10 Jul 2018 14:51

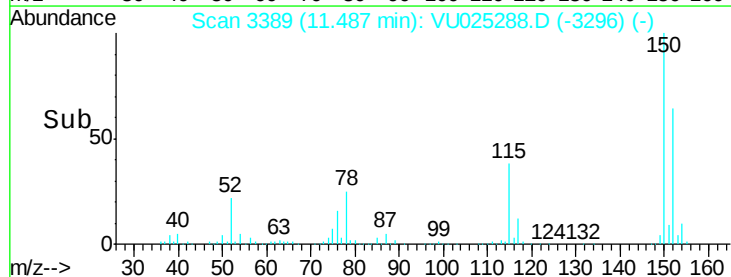
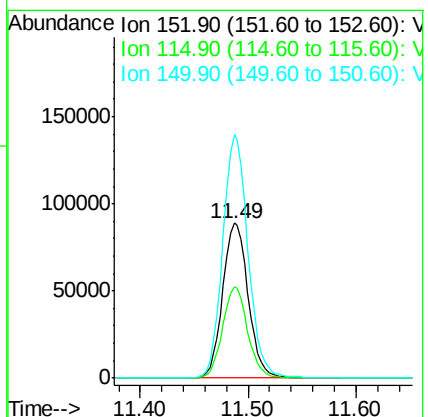
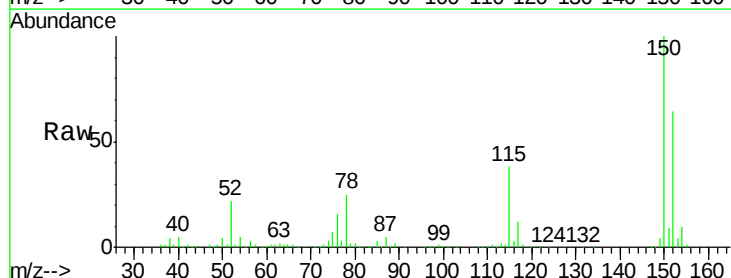
Instrument :
MSVOA_U
ClientSampleId :
MW-1S-070518

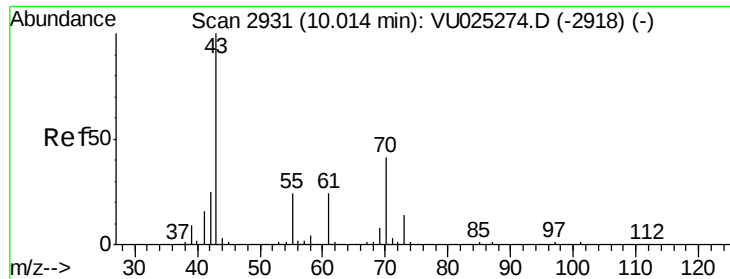
Tot Ion:164 Resp: 33999
Ion Ratio Lower Upper
164 100
166 133.7 101.1 151.7
129 94.8 73.0 109.6
131 90.6 72.1 108.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU025288.D
Acq: 10 Jul 2018 14:51

Tgt Ion:152 Resp: 146546
Ion Ratio Lower Upper
152 100
115 57.7 40.1 120.3
150 155.2 0.0 351.4





#74

N-amvl acetate

Concen: 1.36 ug/l

RT: 10.04 min Scan# 2939

Delta R.T. 0.03 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

MW-1S-070518

Tot Ion: 43 Resp: 448

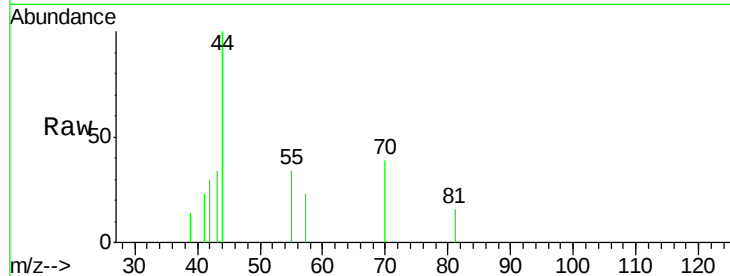
Ion Ratio Lower Upper

43 100

70 81.3 33.4 50.2#

55 59.2 19.0 28.6#

61 0.0 19.3 28.9#

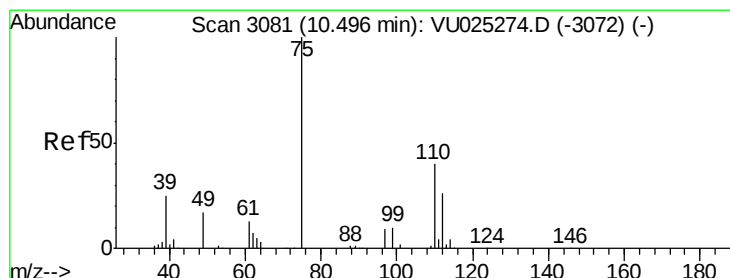
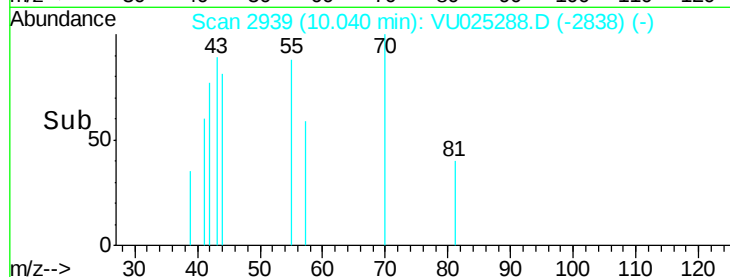
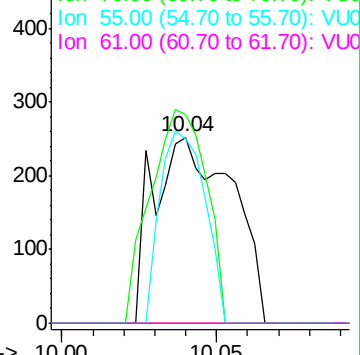


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0



#76

1,2,3-Trichloropropane

Concen: 28.76 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025288.D

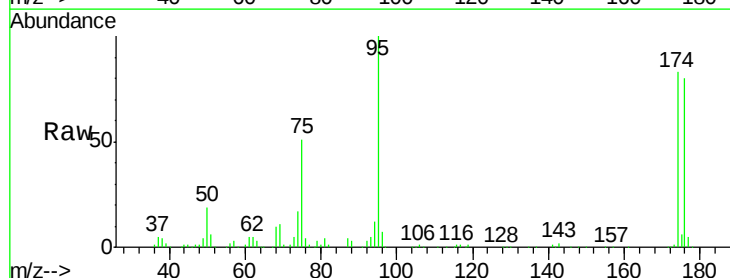
Acq: 10 Jul 2018 14:51

Tgt Ion: 75 Resp: 85839

Ion Ratio Lower Upper

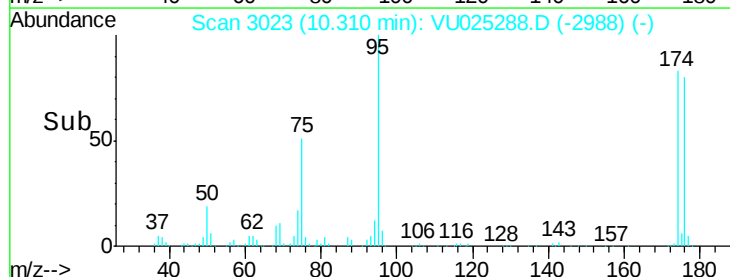
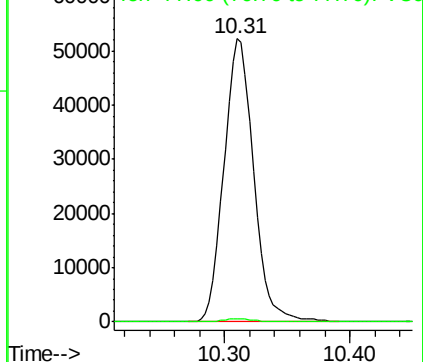
75 100

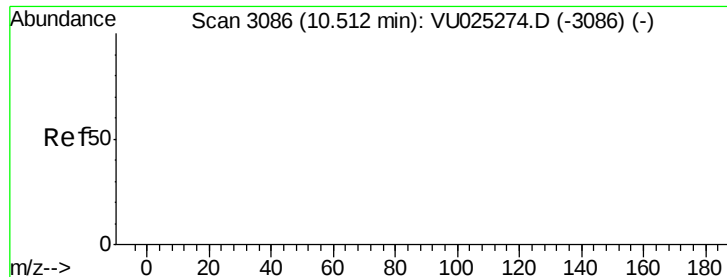
77 1.1 20.4 61.3#



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: 73.52 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

MW-1S-070518

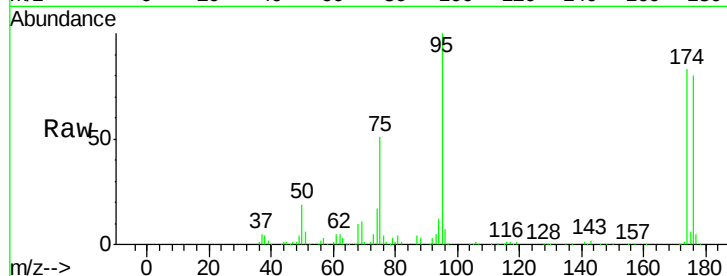
Tot Ion: 75 Resp: 85839

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

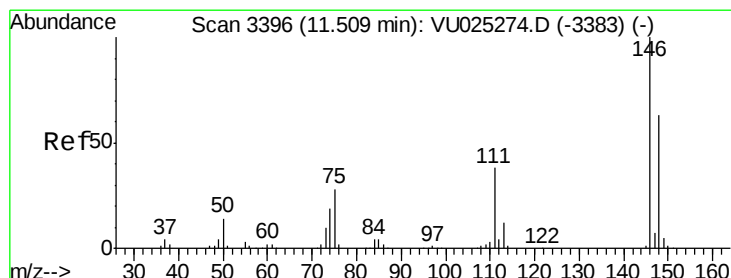
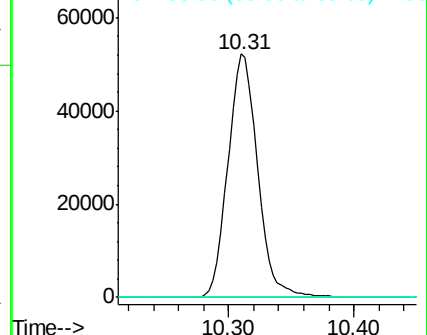
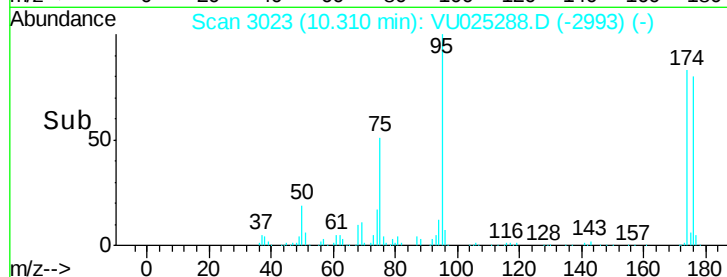
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU025288.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU025288.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU025288.D (-2993) (-)



#88

1,4-Dichlorobenzene

Concen: 1.51 ug/l

RT: 11.52 min Scan# 3400

Delta R.T. 0.01 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

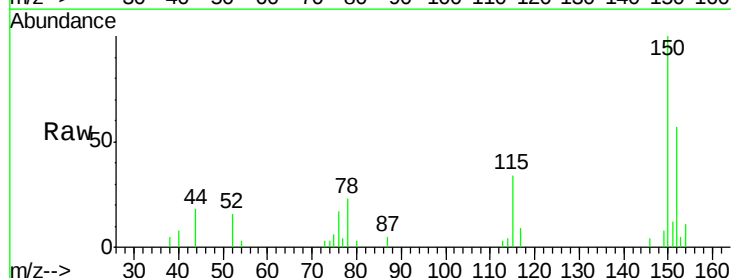
Tgt Ion: 146 Resp: 99

Ion Ratio Lower Upper

146 100

111 0.0 19.4 58.1#

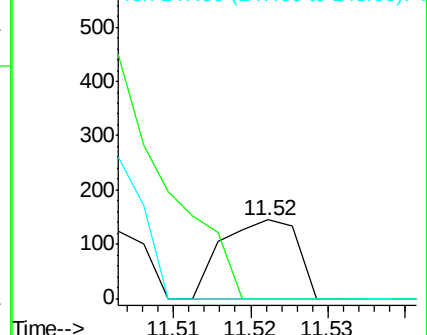
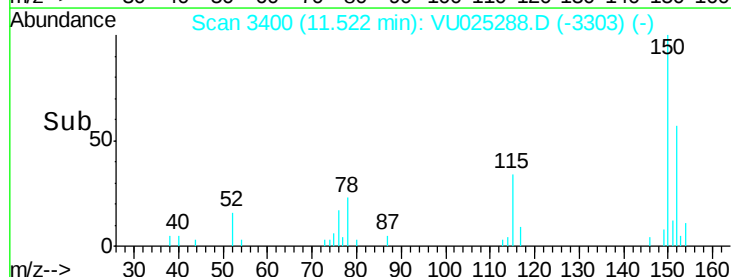
148 0.0 31.7 95.1#

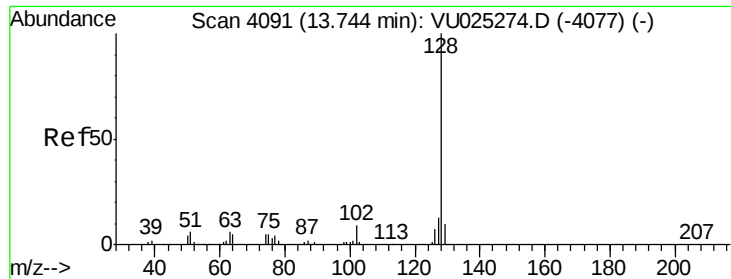


Abundance Ion 145.90 (145.60 to 146.60): VU025288.D (-3303) (-)

Ion 110.90 (110.60 to 111.60): VU025288.D (-3303) (-)

Ion 147.90 (147.60 to 148.60): VU025288.D (-3303) (-)





#95

Naphthalene

Concen: 2.44 ug/l

RT: 13.78 min Scan# 4103

Delta R.T. 0.04 min

Lab File: VU025288.D

Acq: 10 Jul 2018 14:51

Instrument :

MSVOA_U

ClientSampleId :

MW-1S-070518

Tot Ion:128 Resp: 278

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.3 12.5#

