

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062318\
 Data File : VU024860.D
 Acq On : 23 Jun 2018 02:42
 Operator : MD/SY
 Sample : J3668-05
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 WP021MW351-180621

Quant Time: Jun 23 04:46:04 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	192466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	293026	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	275226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	145819	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	140310	44.66	ug/l	0.00
Spiked Amount			Recovery	=	89.32%	
35) Dibromofluoromethane	4.89	113	112514	46.27	ug/l	0.00
Spiked Amount			Recovery	=	92.54%	
50) Toluene-d8	7.57	98	426456	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
62) 4-Bromofluorobenzene	10.31	95	155107	44.04	ug/l	0.00
Spiked Amount			Recovery	=	88.08%	

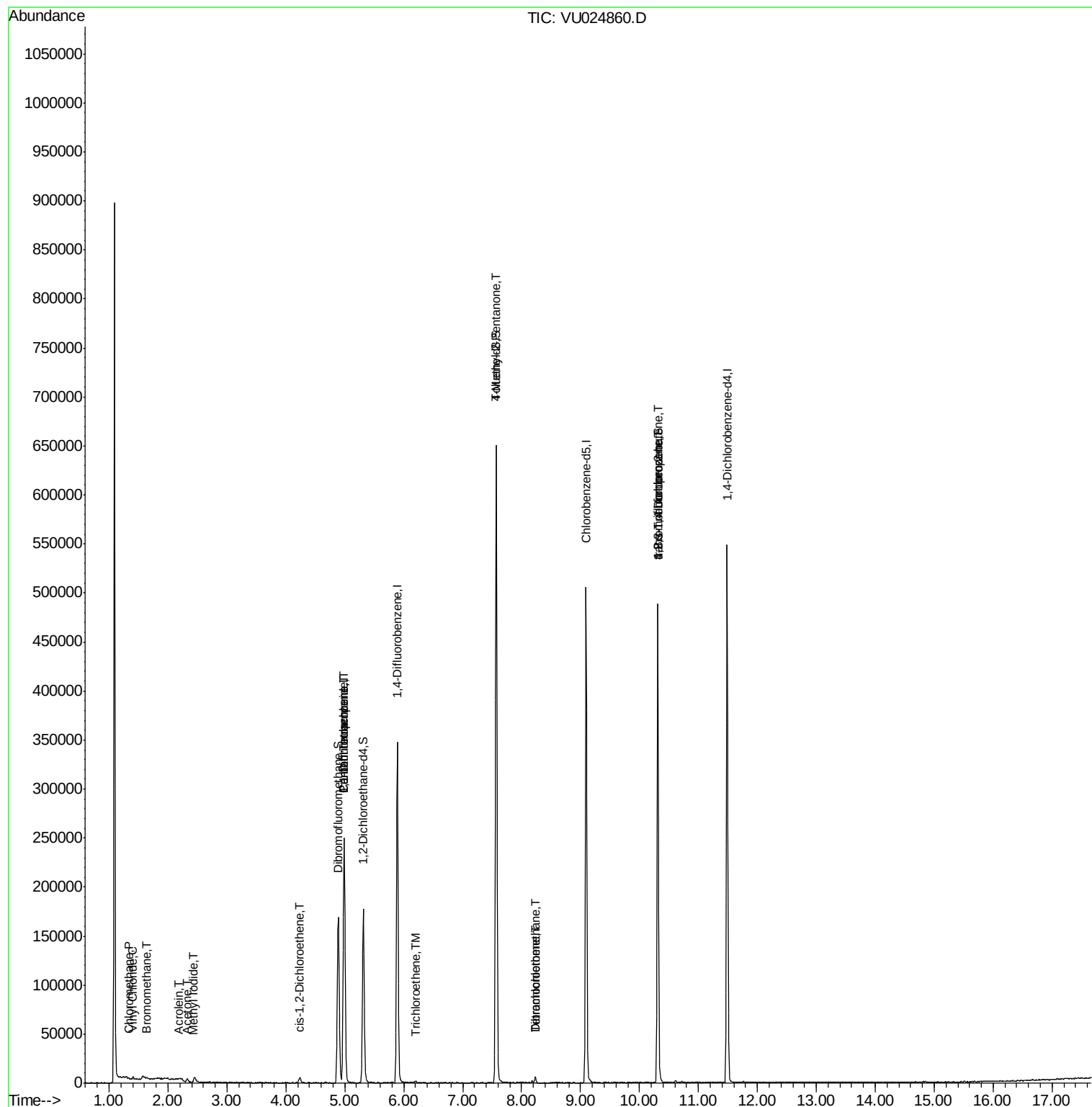
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1001	0.41	ug/l	92
4) Vinyl Chloride	1.40	62	1119	0.44	ug/l #	87
5) Bromomethane	1.64	94	403	0.33	ug/l #	63
6) Chloroethane	1.69	64	20	Below Cal	#	43
10) Methyl Iodide	2.43	142	40	5.31	ug/l #	40
13) Acrolein	2.19	56	295	0.74	ug/l #	13
16) Acetone	2.33	43	3948	2.34	ug/l	100
27) cis-1,2-Dichloroethene	4.24	96	3511	1.27	ug/l	81
31) Cyclohexane	4.99	56	3947	Below Cal	#	15
36) 1,1-Dichloropropene	4.99	75	14432	4.19	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18306	4.83	ug/l #	17
44) Trichloroethene	6.20	130	725	0.26	ug/l	70
51) 4-Methyl-2-Pentanone	7.56	43	1914	0.47	ug/l #	1
60) Dibromochloromethane	8.23	129	1102	0.34	ug/l #	11
64) Tetrachloroethene	8.24	164	1251	0.48	ug/l #	85
76) 1,2,3-Trichloropropane	10.31	75	81236	25.30	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	81236	58.56	ug/l #	100

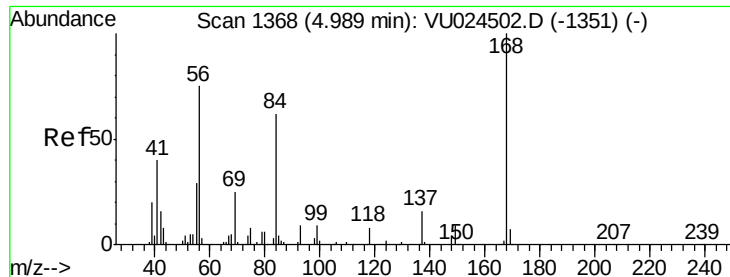
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

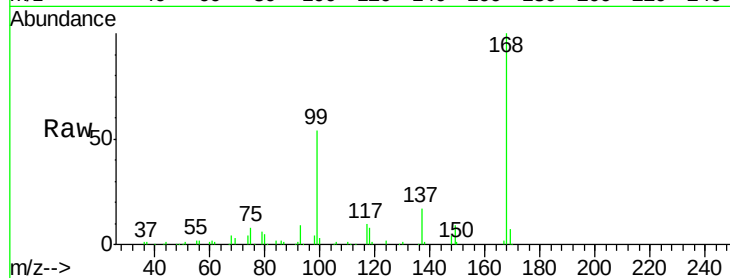
WP021MW351-180621

Tot Ion:168 Resp: 192466

Ion Ratio Lower Upper

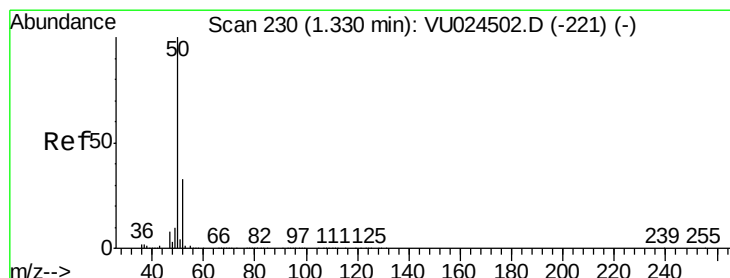
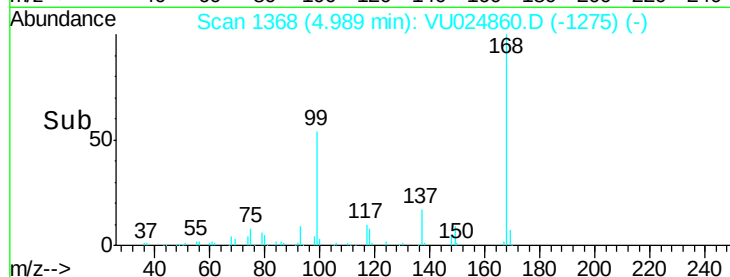
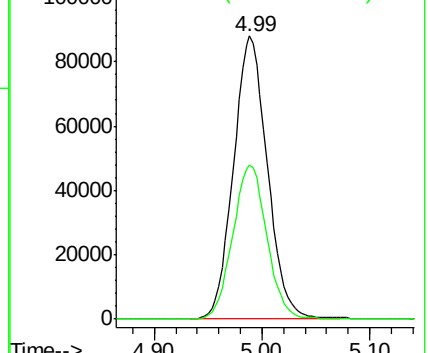
168 100

99 54.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024860.D (-1275) (-)

Ion 98.90 (98.60 to 99.60): VU024860.D (-1275) (-)



#3

Chloromethane

Concen: 0.41 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024860.D

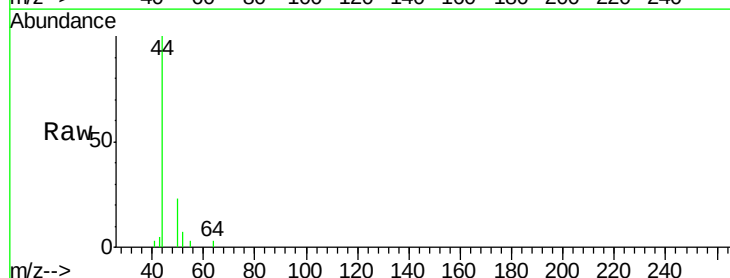
Acq: 23 Jun 2018 02:42

Tgt Ion: 50 Resp: 1001

Ion Ratio Lower Upper

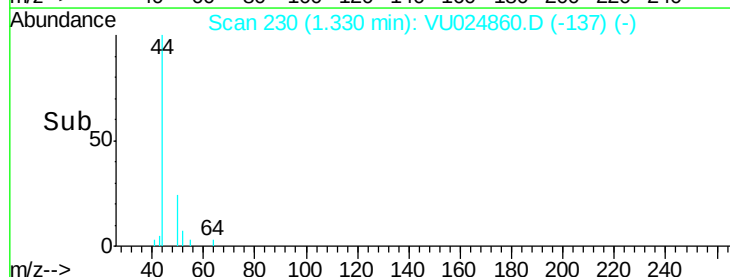
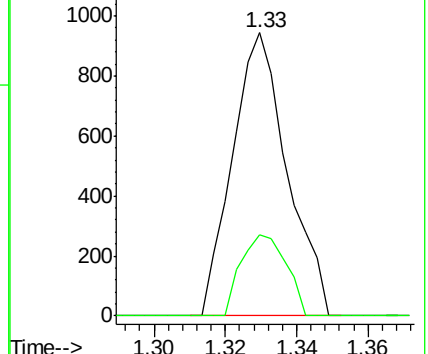
50 100

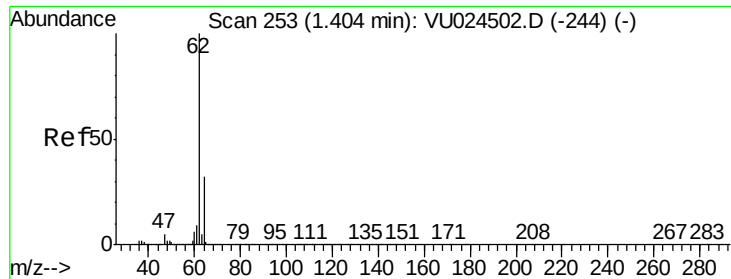
52 28.7 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU024860.D (-137) (-)

Ion 51.90 (51.60 to 52.60): VU024860.D (-137) (-)





#4

Vinyl Chloride

Concen: 0.44 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

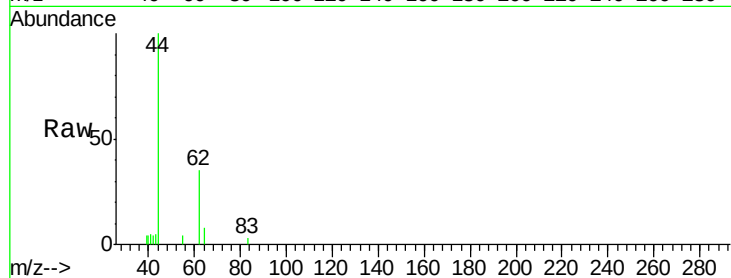
WP021MW351-180621

Tot Ion: 62 Resp: 1119

Ion Ratio Lower Upper

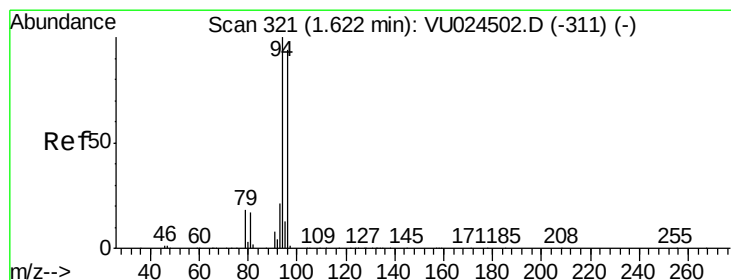
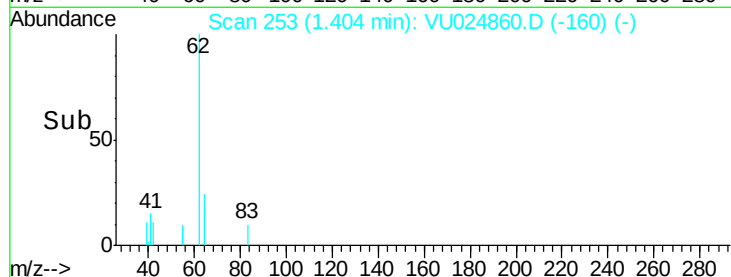
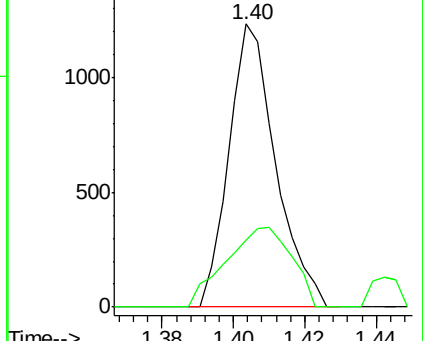
62 100

64 23.8 24.8 37.2#



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 63.90 (63.60 to 64.60): VU0



#5

Bromomethane

Concen: 0.33 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU024860.D

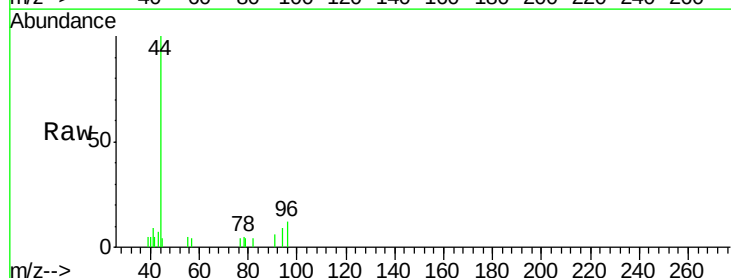
Acq: 23 Jun 2018 02:42

Tgt Ion: 94 Resp: 403

Ion Ratio Lower Upper

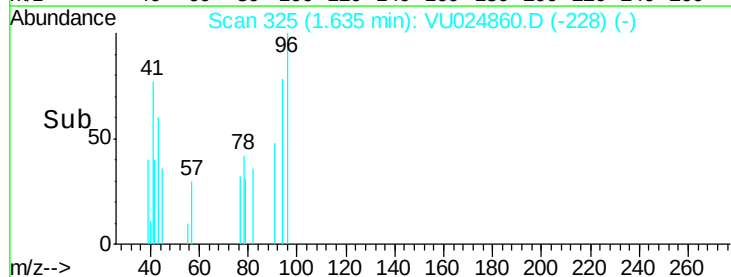
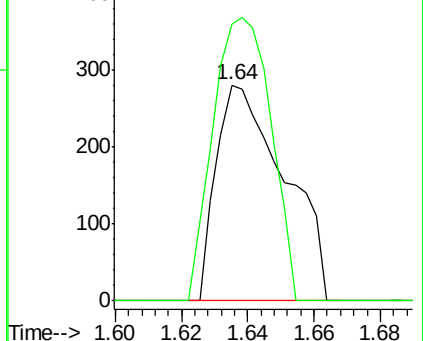
94 100

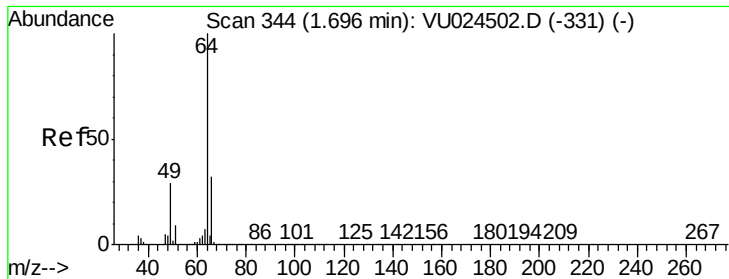
96 128.5 74.5 111.7#



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: 1.69 min Scan# 341

Delta R.T. -0.01 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

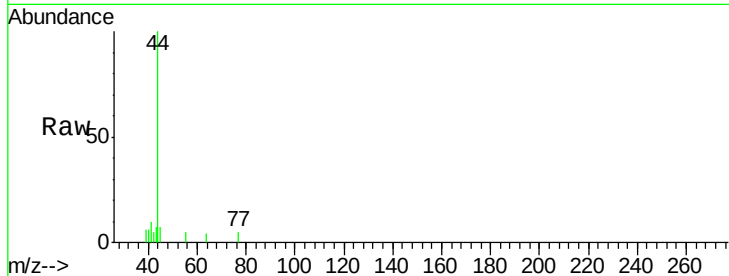
WP021MW351-180621

Tot Ion: 64 Resp: 20

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

1.69

100

80

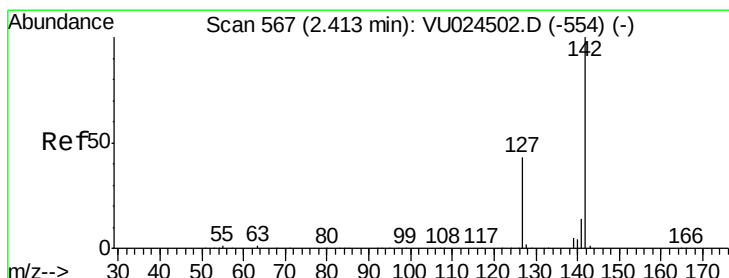
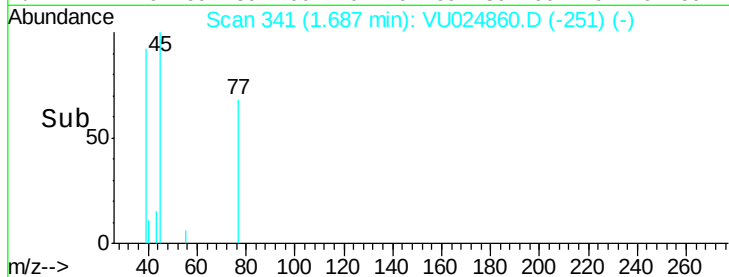
60

40

20

0

Time--> 1.68 1.68 1.69 1.69 1.70



#10

Methyl Iodide

Concen: 5.31 ug/l

RT: 2.43 min Scan# 571

Delta R.T. 0.01 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

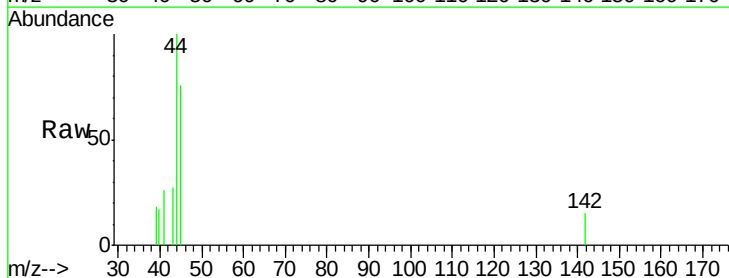
Tgt Ion: 142 Resp: 40

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

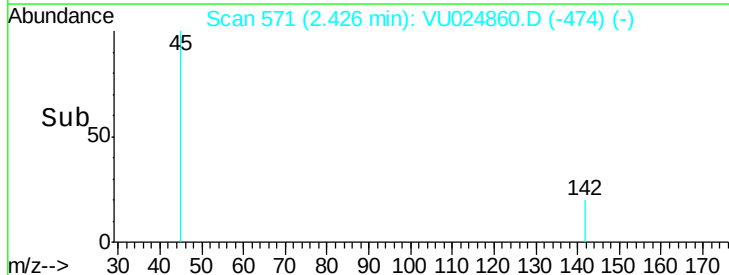
2.43

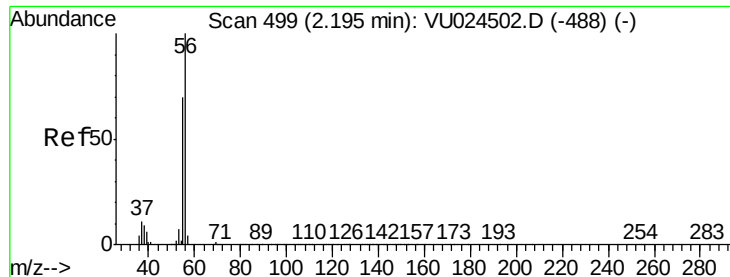
100

50

0

Time--> 2.41 2.42 2.43

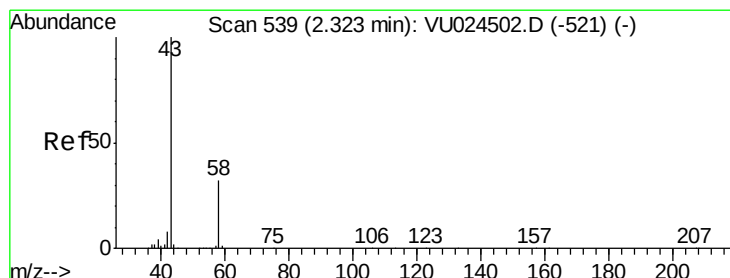
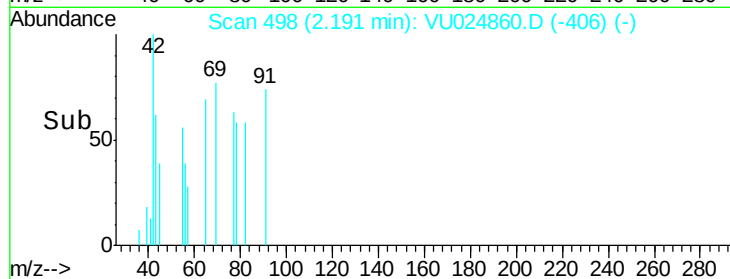
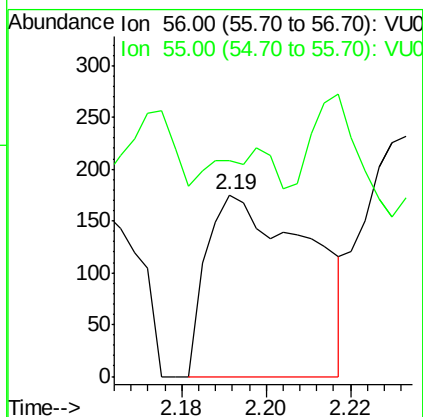
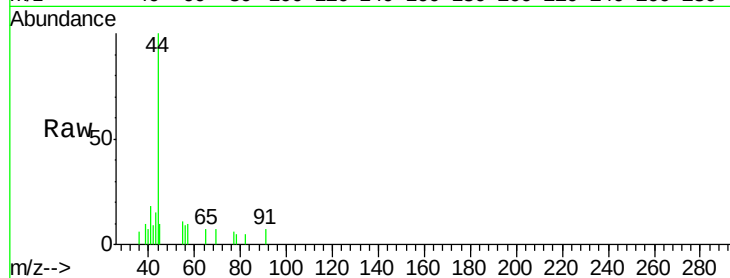




#13
Acrolein
Concen: 0.74 ug/l
RT: 2.19 min Scan# 498
Delta R.T. -0.00 min
Lab File: VU024860.D
Acq: 23 Jun 2018 02:42

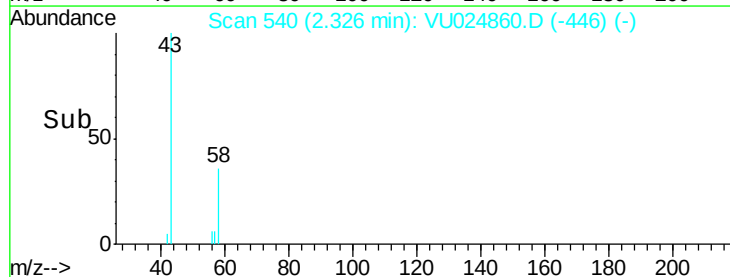
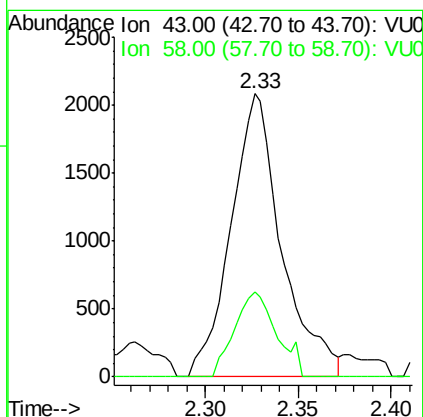
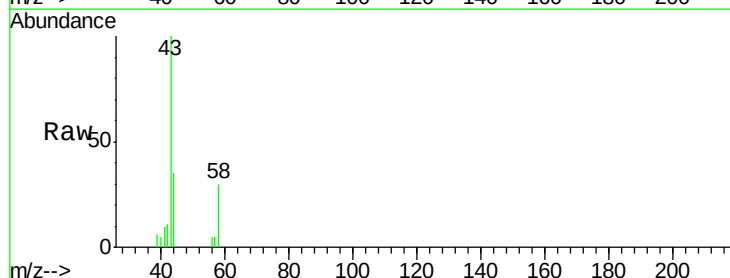
Instrument :
MSVOA_U
ClientSampleId :
WP021MW351-180621

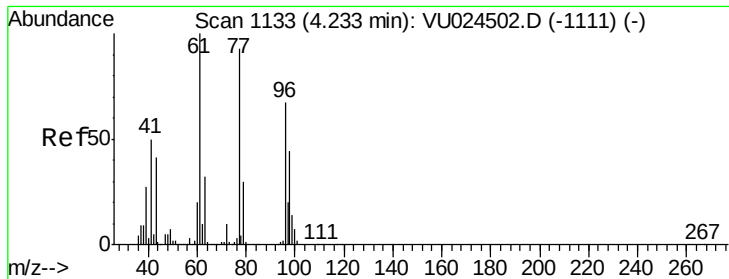
Tot Ion: 56 Resp: 295
Ion Ratio Lower Upper
56 100
55 0.0 58.4 87.6#



#16
Acetone
Concen: 2.34 ug/l
RT: 2.33 min Scan# 540
Delta R.T. 0.00 min
Lab File: VU024860.D
Acq: 23 Jun 2018 02:42

Tgt Ion: 43 Resp: 3948
Ion Ratio Lower Upper
43 100
58 30.2 24.4 36.6





#27

cis-1,2-Dichloroethene

Concen: 1.27 ua/l

RT: 4.24 min Scan# 1134

Delta R.T. 0.00 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

WP021MW351-180621

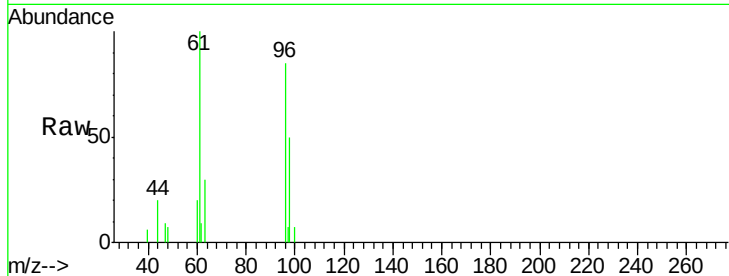
Tot Ion: 96 Resp: 3511

Ion Ratio Lower Upper

96 100

61 119.6 0.0 306.6

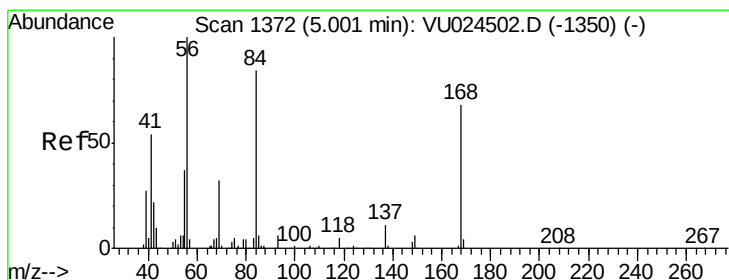
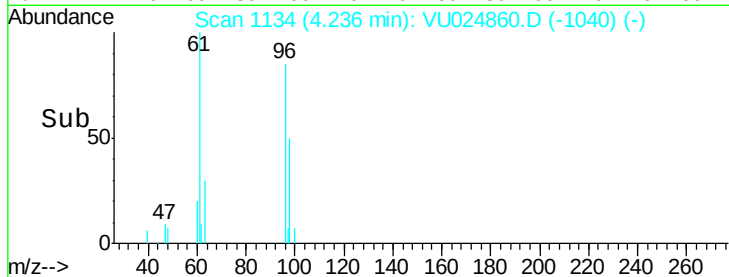
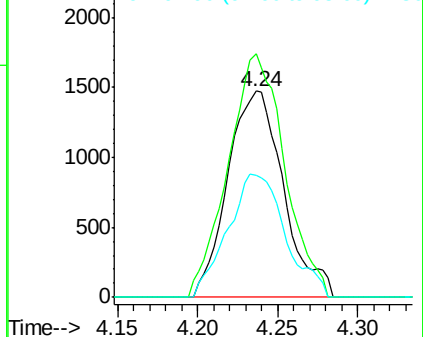
98 61.9 0.0 128.8



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: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

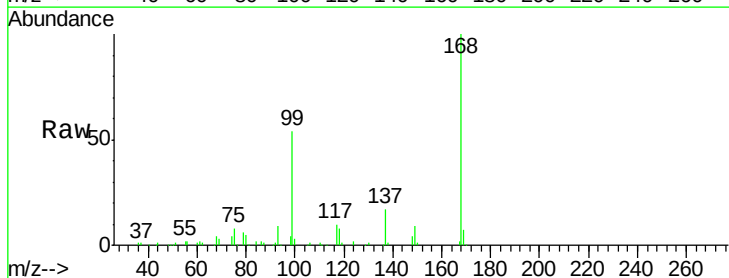
Tgt Ion: 56 Resp: 3947

Ion Ratio Lower Upper

56 100

69 151.9 24.8 37.2#

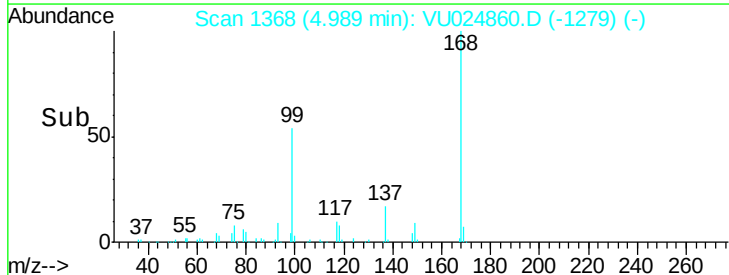
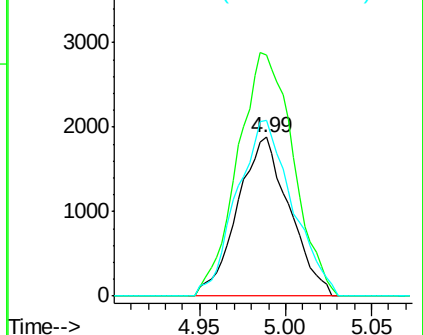
84 111.1 65.2 97.8#

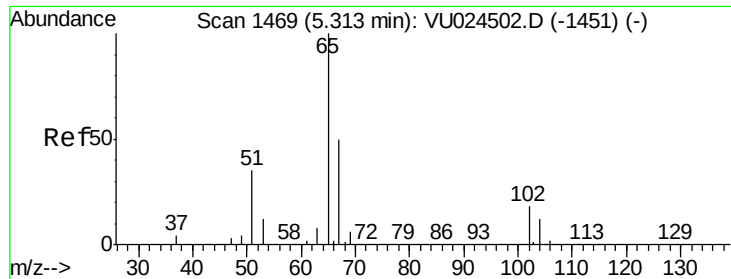


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

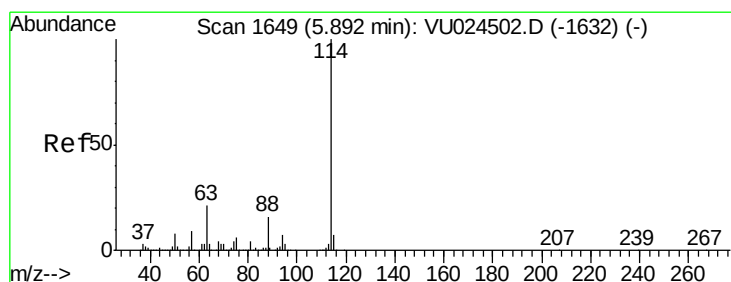
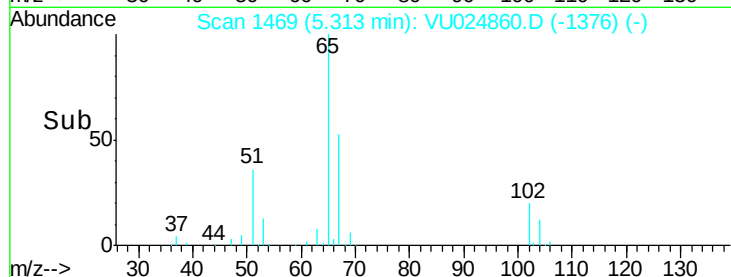
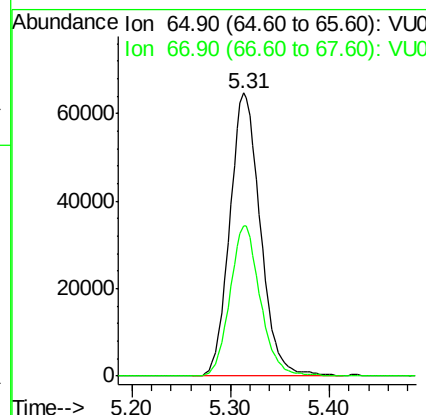
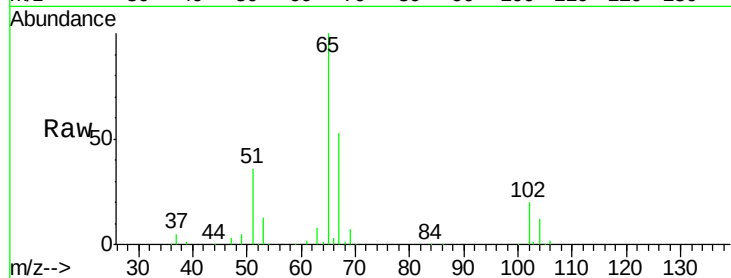




#33
 1,2-Dichloroethane-d4
 Concen: 44.66 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024860.D
 Acq: 23 Jun 2018 02:42

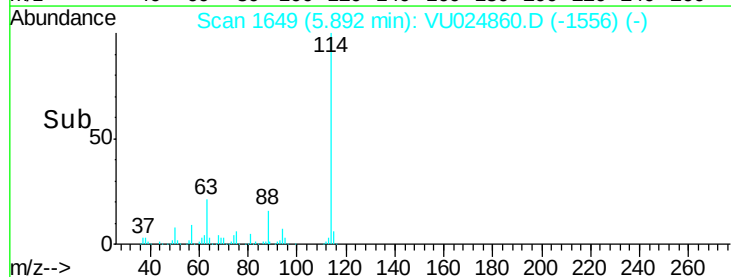
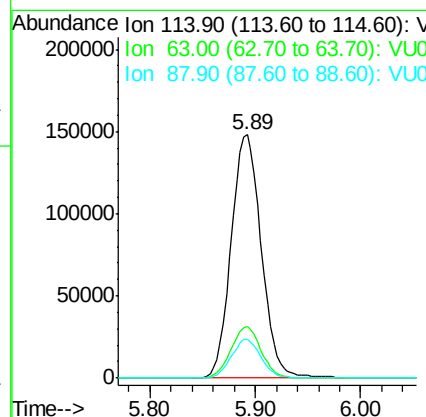
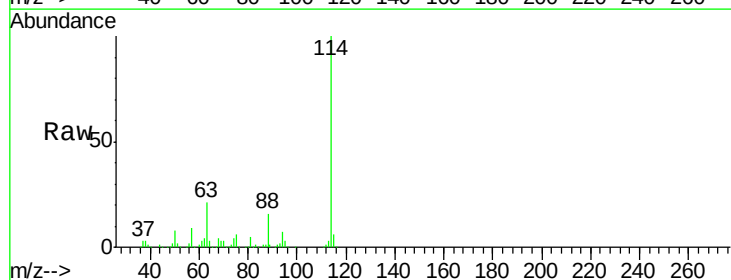
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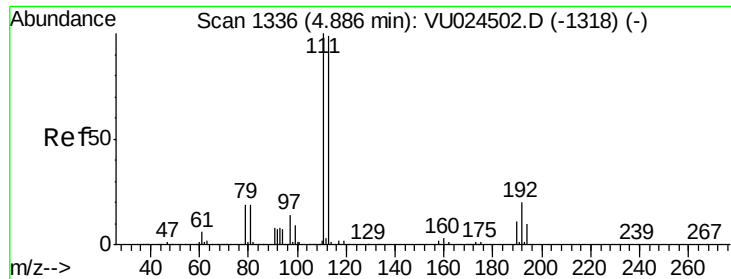
Tot Ion: 65 Resp: 140310
 Ion Ratio Lower Upper
 65 100
 67 52.7 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024860.D
 Acq: 23 Jun 2018 02:42

Tgt Ion: 114 Resp: 293026
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 45.4
 88 16.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 46.27 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

WP021MW351-180621

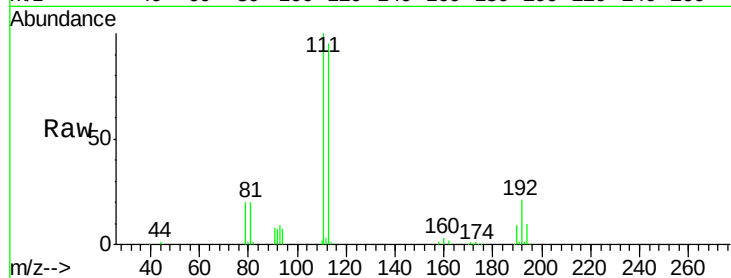
Tot Ion:113 Resp: 112514

Ion Ratio Lower Upper

113 100

111 103.4 82.2 123.4

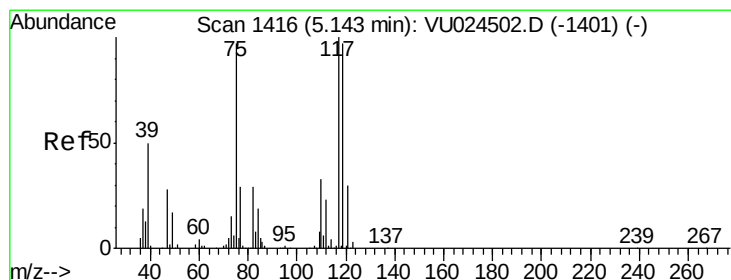
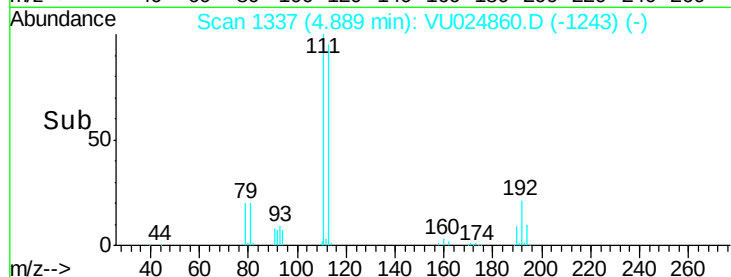
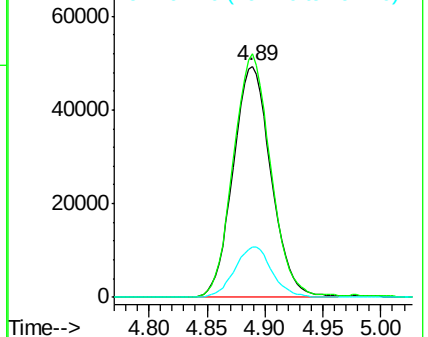
192 21.4 16.2 24.4



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: 4.19 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

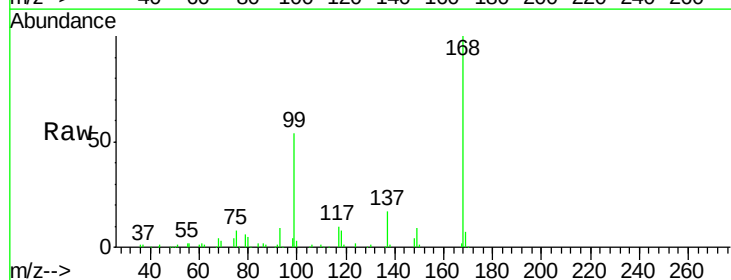
Tgt Ion: 75 Resp: 14432

Ion Ratio Lower Upper

75 100

110 8.4 17.0 50.9#

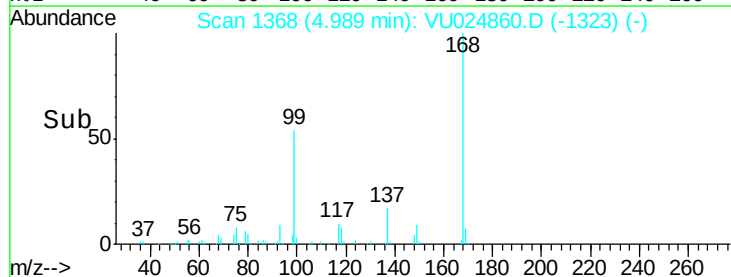
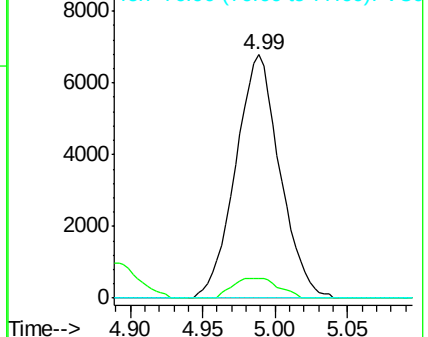
77 0.0 24.2 36.4#

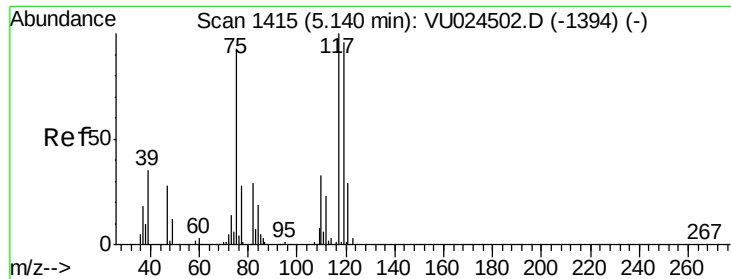


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

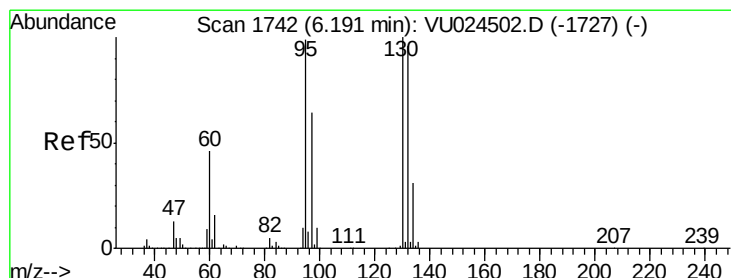
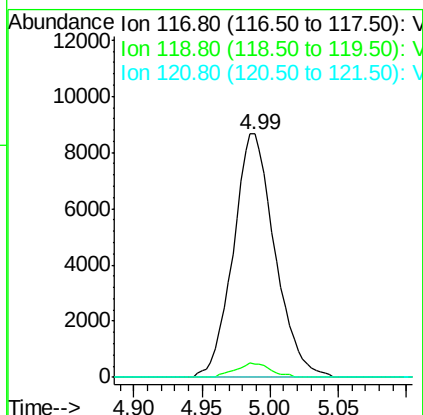
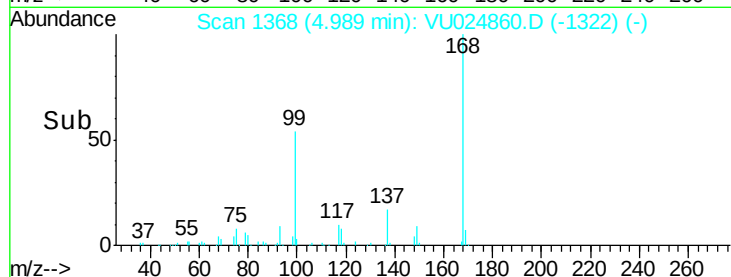
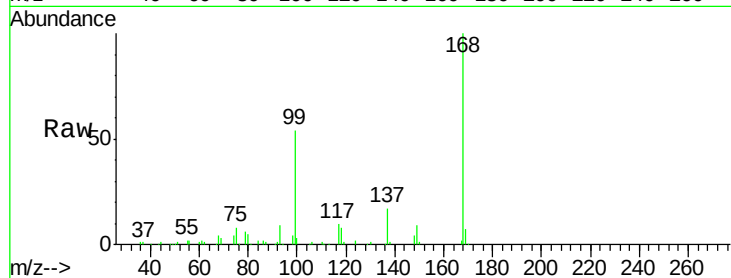




#38
Carbon Tetrachloride
Concen: 4.83 ug/l
RT: 4.99 min Scan# 1368
Delta R.T. -0.15 min
Lab File: VU024860.D
Acq: 23 Jun 2018 02:42

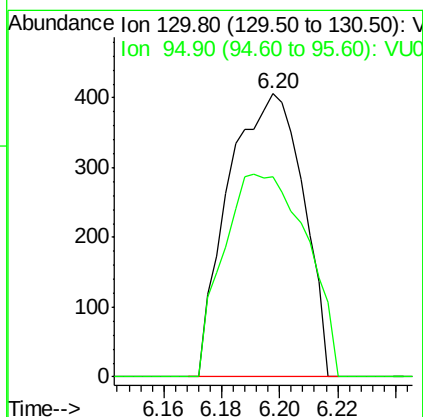
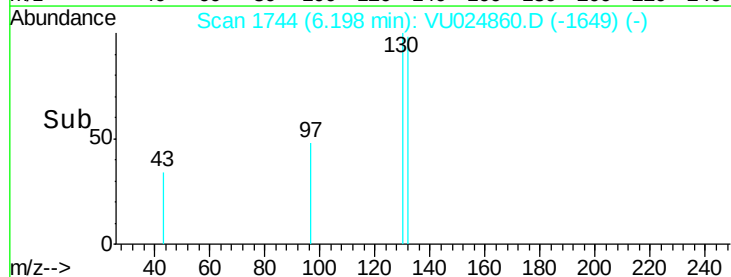
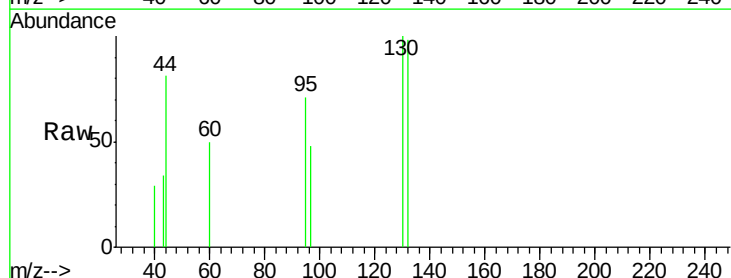
Instrument :
MSVOA_U
ClientSampleId :
WP021MW351-180621

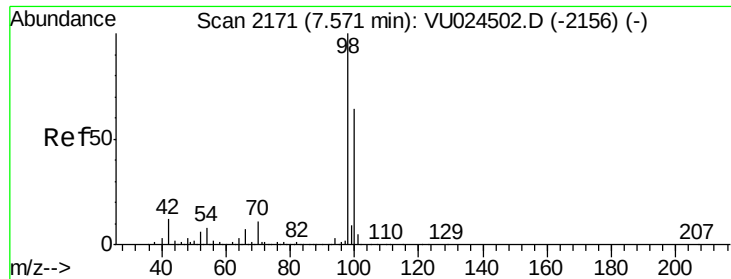
Tot Ion:117 Resp: 18306
Ion Ratio Lower Upper
117 100
119 5.6 76.1 114.1#
121 0.0 23.7 35.5#



#44
Trichloroethene
Concen: 0.26 ug/l
RT: 6.20 min Scan# 1744
Delta R.T. 0.01 min
Lab File: VU024860.D
Acq: 23 Jun 2018 02:42

Tgt Ion:130 Resp: 725
Ion Ratio Lower Upper
130 100
95 70.7 0.0 202.4





#50

Toluene-d8

Concen: 48.08 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

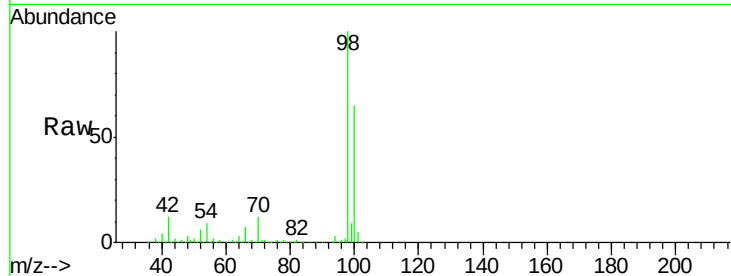
WP021MW351-180621

Tot Ion: 98 Resp: 426456

Ion Ratio Lower Upper

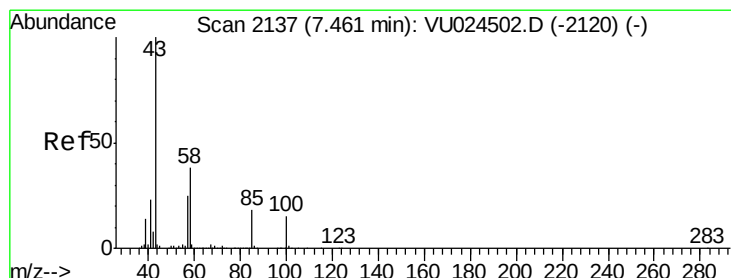
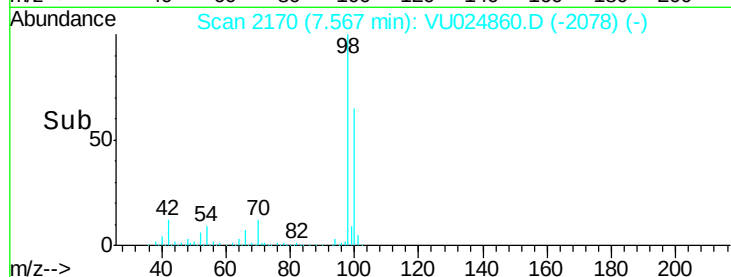
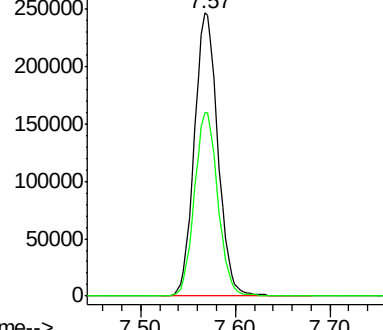
98 100

100 64.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU



#51

4-Methyl-2-Pentanone

Concen: 0.47 ug/l

RT: 7.56 min Scan# 2169

Delta R.T. 0.10 min

Lab File: VU024860.D

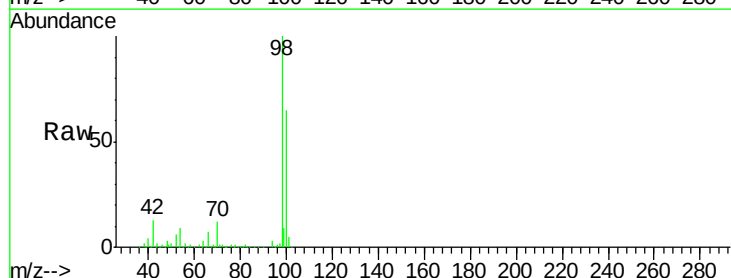
Acq: 23 Jun 2018 02:42

Tgt Ion: 43 Resp: 1914

Ion Ratio Lower Upper

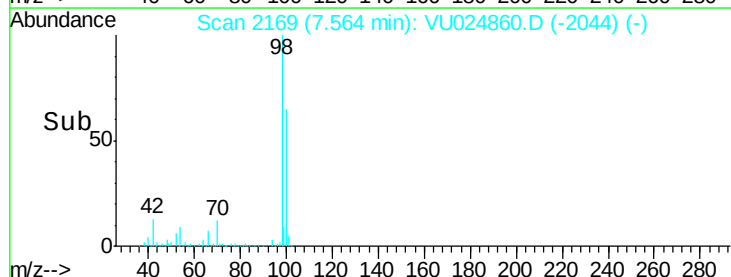
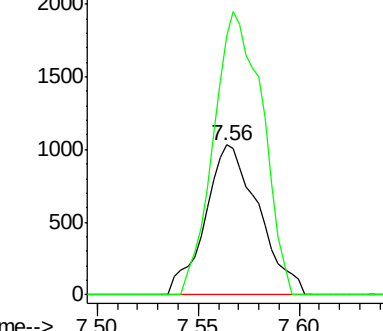
43 100

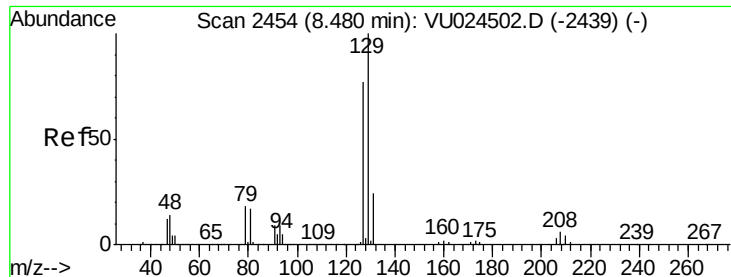
58 172.7 30.0 45.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#60

Dibromochloromethane

Concen: 0.34 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

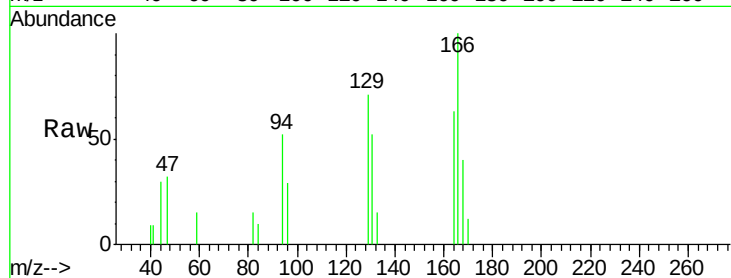
WP021MW351-180621

Tot Ion:129 Resp: 1102

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

8.23

800

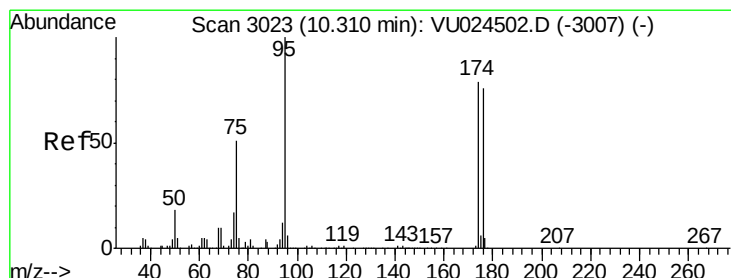
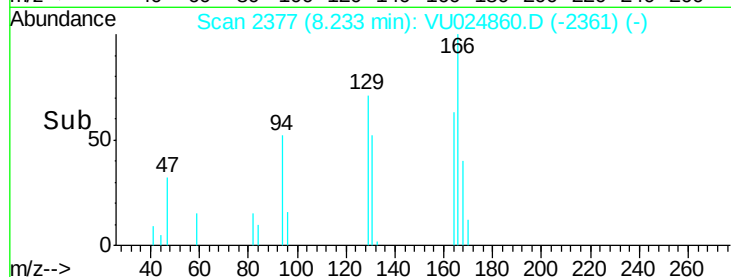
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 44.04 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

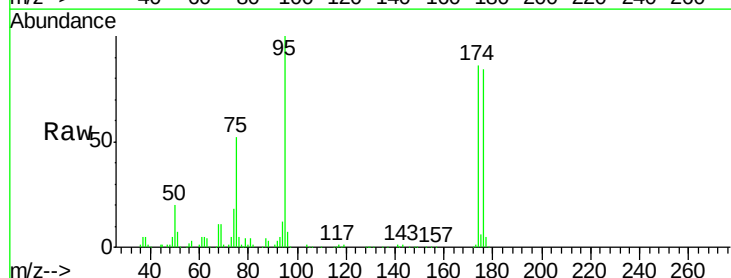
Tgt Ion: 95 Resp: 155107

Ion Ratio Lower Upper

95 100

174 85.6 0.0 165.8

176 83.7 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

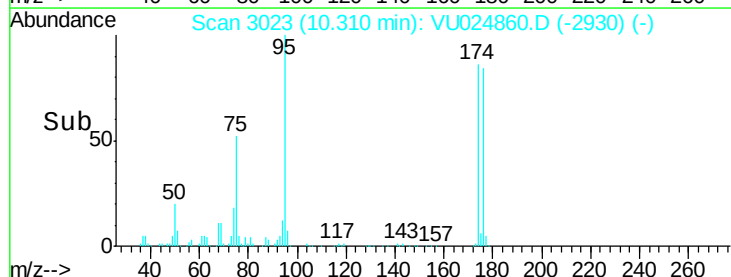
60000

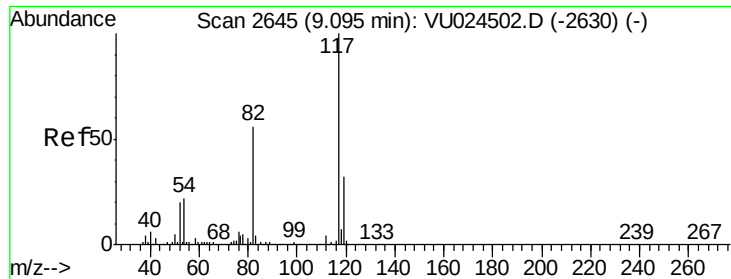
40000

20000

0

Time-->

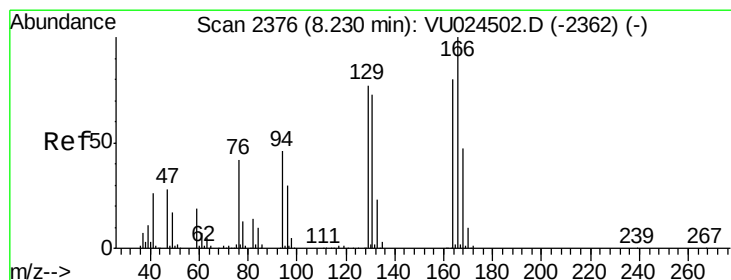
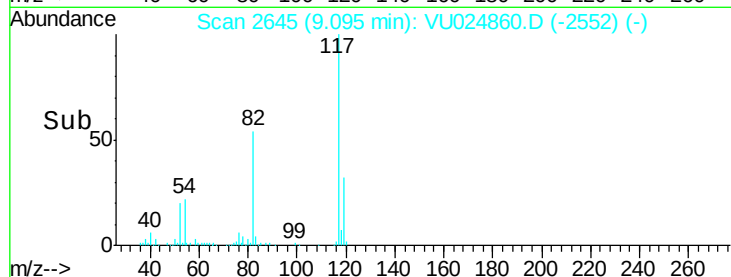
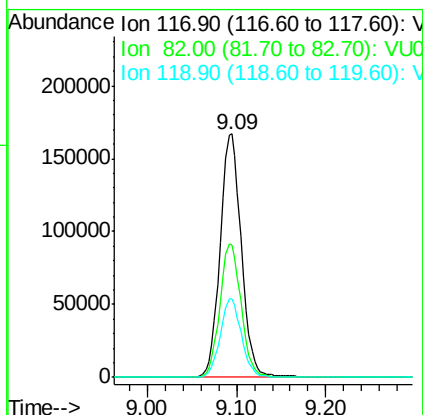
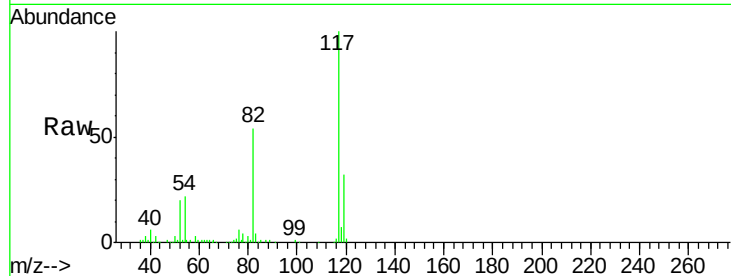




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024860.D
Acq: 23 Jun 2018 02:42

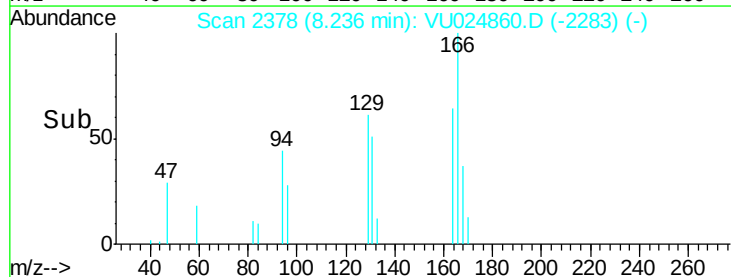
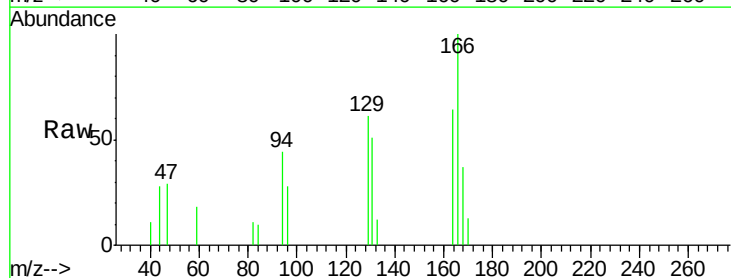
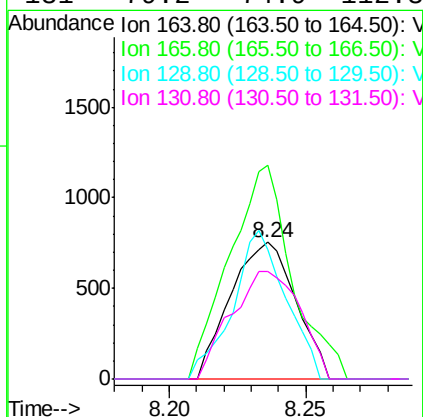
Instrument :
MSVOA_U
ClientSampleId :
WP021MW351-180621

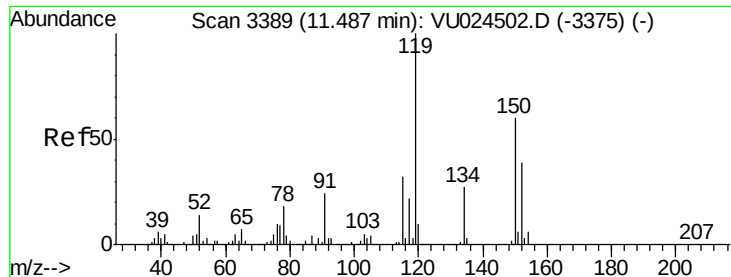
Tot Ion:117 Resp: 275226
Ion Ratio Lower Upper
117 100
82 54.4 44.3 66.5
119 32.3 25.4 38.2



#64
Tetrachloroethene
Concen: 0.48 ug/l
RT: 8.24 min Scan# 2378
Delta R.T. 0.01 min
Lab File: VU024860.D
Acq: 23 Jun 2018 02:42

Tgt Ion:164 Resp: 1251
Ion Ratio Lower Upper
164 100
166 156.6 101.7 152.5#
129 95.1 76.9 115.3
131 79.2 74.9 112.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

WP021MW351-180621

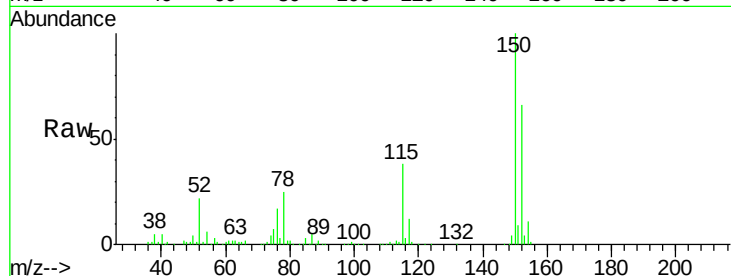
Tot Ion:152 Resp: 145819

Ion Ratio Lower Upper

152 100

115 57.2 43.0 129.0

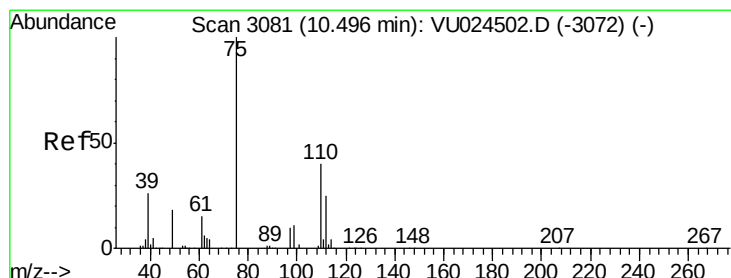
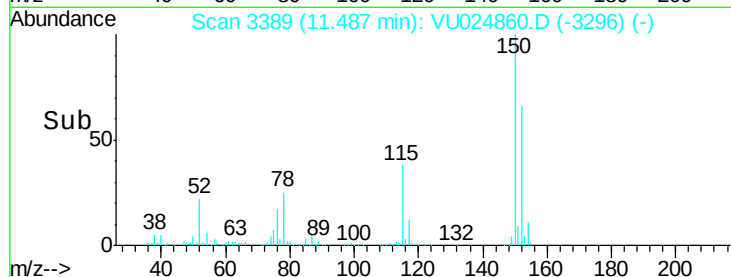
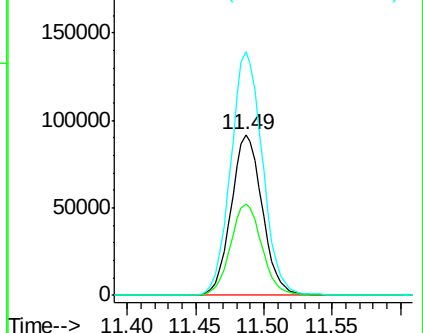
150 154.3 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 25.30 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024860.D

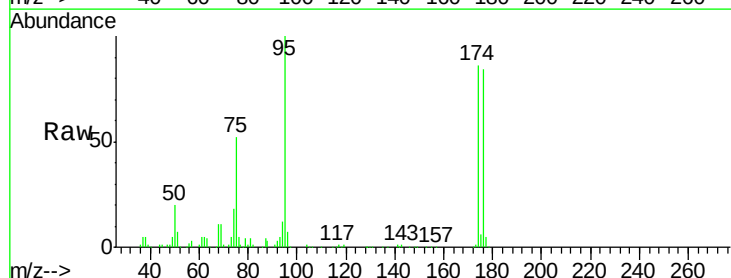
Acq: 23 Jun 2018 02:42

Tgt Ion: 75 Resp: 81236

Ion Ratio Lower Upper

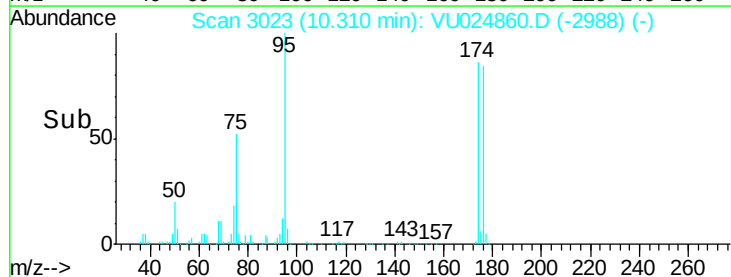
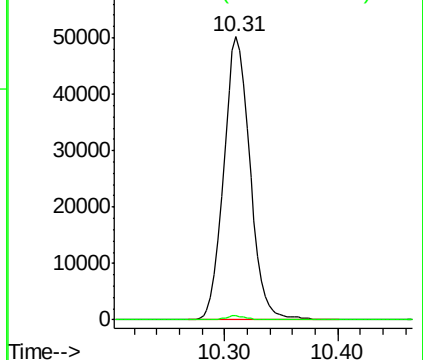
75 100

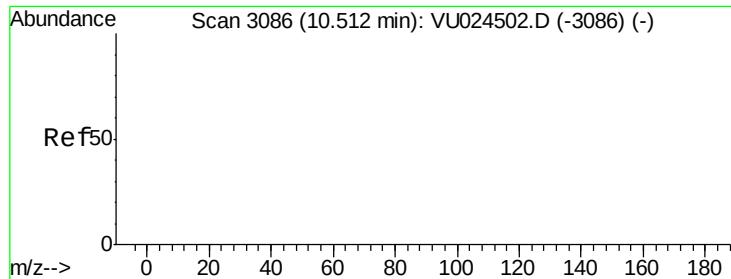
77 1.0 20.9 62.7#



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: 58.56 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024860.D

Acq: 23 Jun 2018 02:42

Instrument :

MSVOA_U

ClientSampleId :

WP021MW351-180621

Tot Ion: 75 Resp: 81236

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.1 0.0 0.0#

