

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
 Data File : VU024786.D
 Acq On : 21 Jun 2018 03:39
 Operator : MD/SY
 Sample : J3585-05
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW03

Quant Time: Jun 21 07:58:20 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

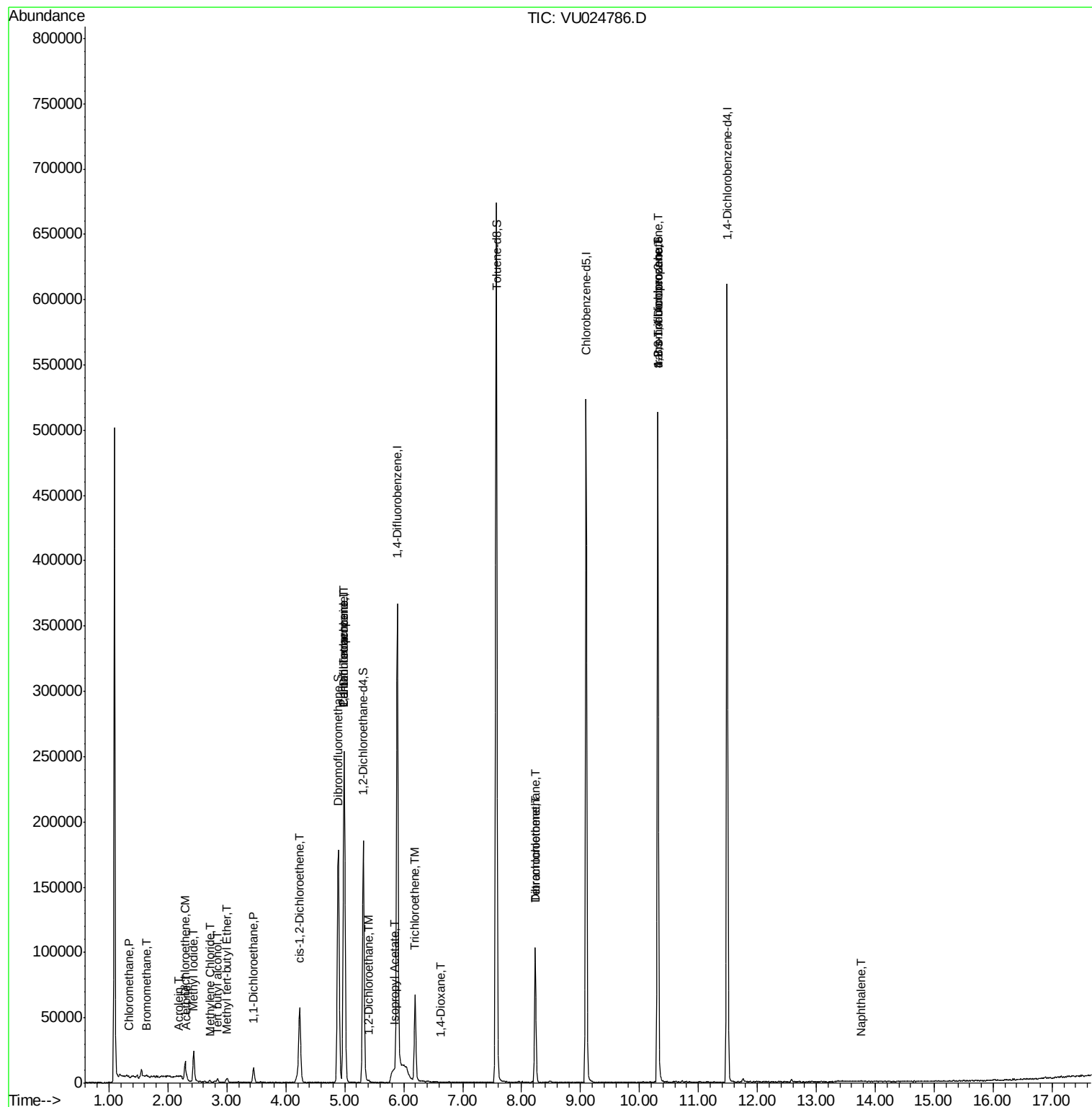
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	196617	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	307212	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	292043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	156301	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	141635	44.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.26%	
35) Dibromofluoromethane	4.89	113	119929	47.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.08%	
50) Toluene-d8	7.57	98	447091	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
62) 4-Bromofluorobenzene	10.31	95	163410	44.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.50%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	1202	0.478 ug/l	#	71
5) Bromomethane	1.64	94	408	0.325 ug/l		81
6) Chloroethane	1.68	64	195	Below Cal	#	43
10) Methyl Iodide	2.42	142	192	5.371 ug/l	#	40
11) Tert butyl alcohol	2.83	59	635	0.813 ug/l	#	89
12) 1,1-Dichloroethene	2.29	96	5253	2.346 ug/l		84
13) Acrolein	2.18	56	294	0.717 ug/l	#	45
16) Acetone	2.32	43	4488	2.602 ug/l		98
19) Methyl tert-butyl Ether	3.00	73	3133	0.372 ug/l	#	69
20) Methylene Chloride	2.71	84	686	0.254 ug/l	#	91
24) 1,1-Dichloroethane	3.45	63	13091	2.762 ug/l		98
27) cis-1,2-Dichloroethene	4.23	96	32551	11.483 ug/l		88
31) Cyclohexane	4.99	56	4040	Below Cal	#	9
36) 1,1-Dichloropropene	4.99	75	14458	4.005 ug/l	#	51
38) Carbon Tetrachloride	4.99	117	18291	4.608 ug/l	#	17
42) 1,2-Dichloroethane	5.41	62	853	0.218 ug/l	#	77
43) Isopropyl Acetate	5.82	43	10081	1.482 ug/l	#	62
44) Trichloroethene	6.19	130	22797	7.787 ug/l		99
49) 1,4-Dioxane	6.63	88	76	1.173 ug/l	#	1
60) Dibromochloromethane	8.23	129	22176	6.611 ug/l	#	11
64) Tetrachloroethene	8.23	164	23385	8.424 ug/l		97
76) 1,2,3-Trichloropropane	10.31	75	82979	24.114 ug/l	#	35
81) trans-1,4-Dichloro-2-buten	10.31	75	82979	55.809 ug/l	#	100
95) Naphthalene	13.76	128	483	0.721 ug/l	#	69

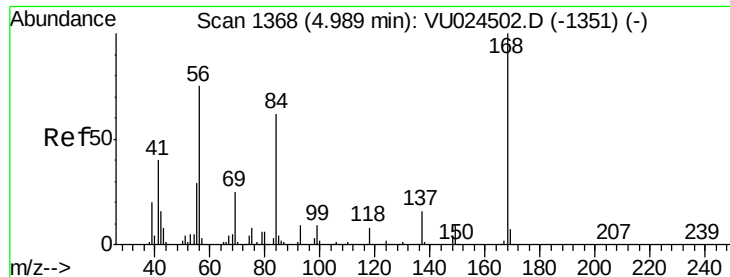
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

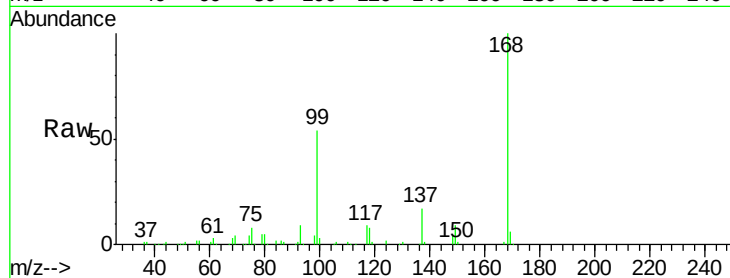
CKMW03

Tgt Ion:168 Resp: 196617

Ion Ratio Lower Upper

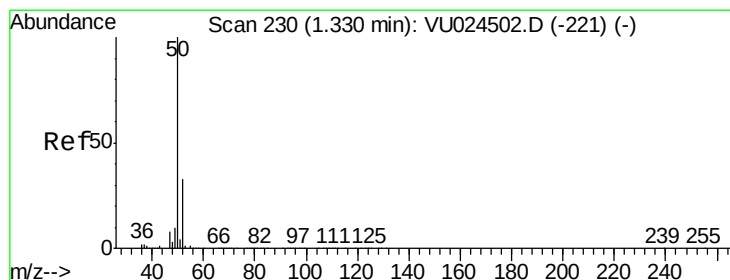
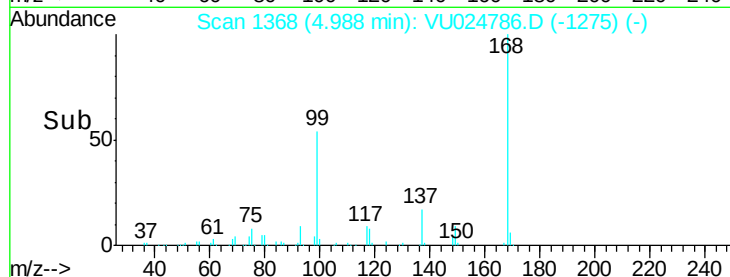
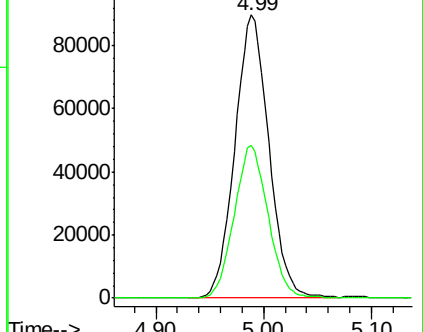
168 100

99 54.0 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024502.D (-1351) (-)

Ion 98.90 (98.60 to 99.60): VU024502.D (-1351) (-)



#3

Chloromethane

Concen: 0.478 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024786.D

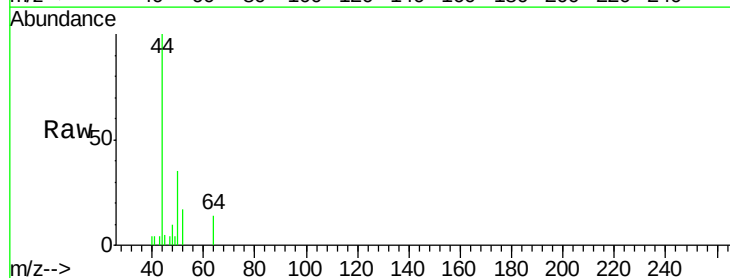
Acq: 21 Jun 2018 03:39

Tgt Ion: 50 Resp: 1202

Ion Ratio Lower Upper

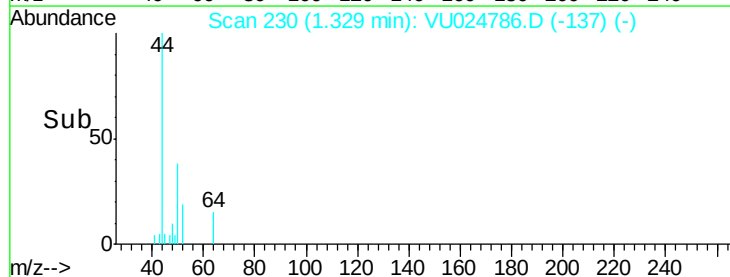
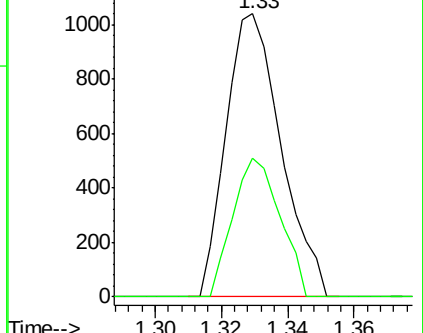
50 100

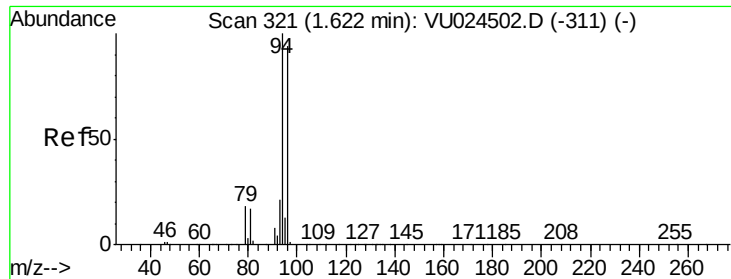
52 49.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024502.D (-221) (-)

Ion 51.90 (51.60 to 52.60): VU024502.D (-221) (-)





#5

Bromomethane

Concen: 0.325 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

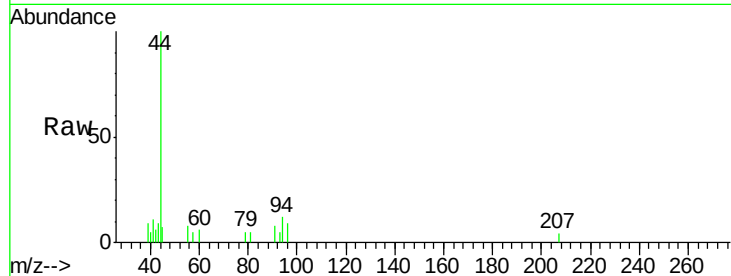
CKMW03

Tgt Ion: 94 Resp: 408

Ion Ratio Lower Upper

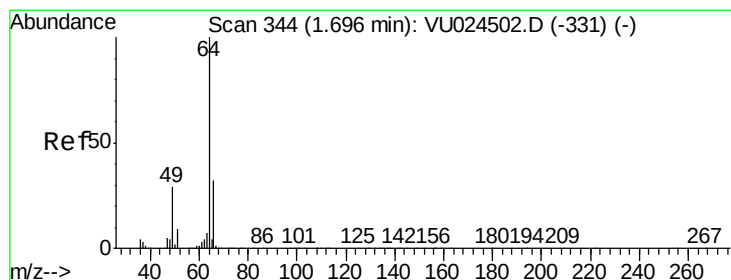
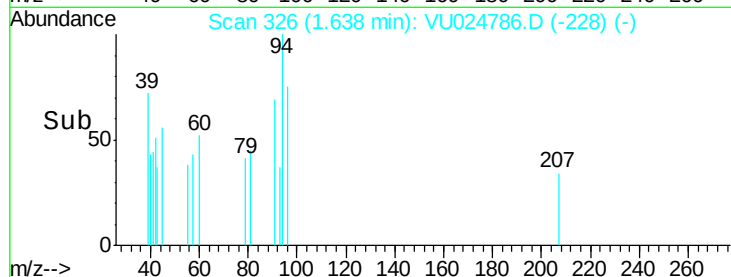
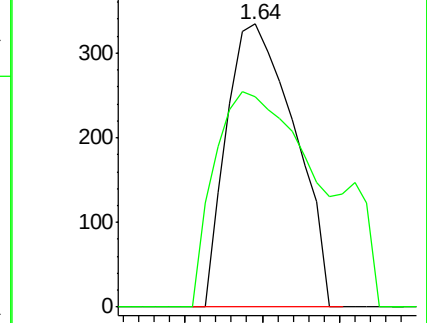
94 100

96 74.6 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: 1.68 min Scan# 338

Delta R.T. -0.02 min

Lab File: VU024786.D

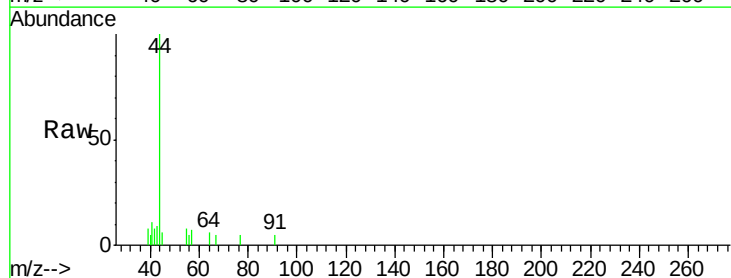
Acq: 21 Jun 2018 03:39

Tgt Ion: 64 Resp: 195

Ion Ratio Lower Upper

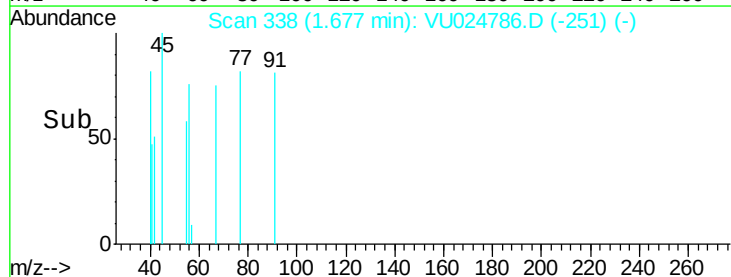
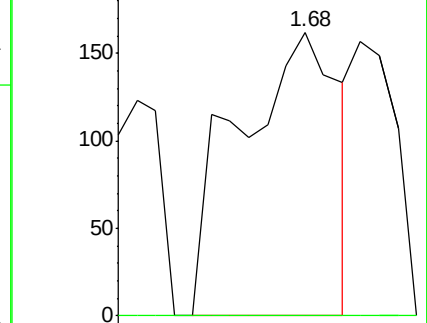
64 100

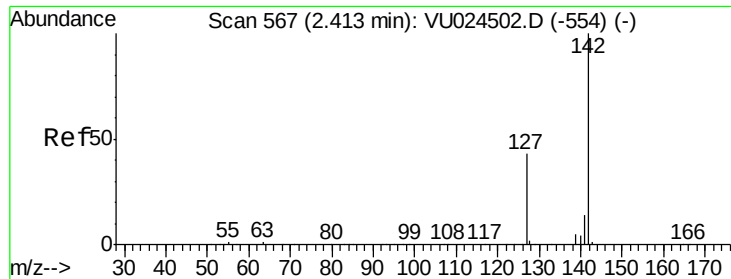
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0

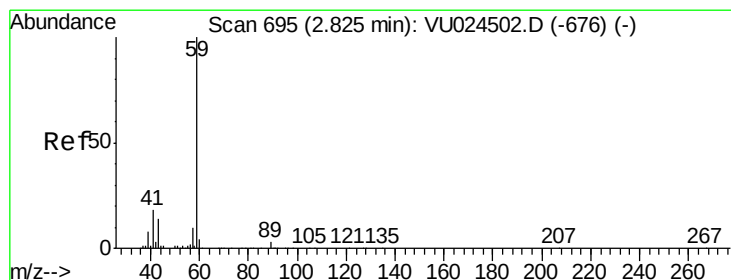
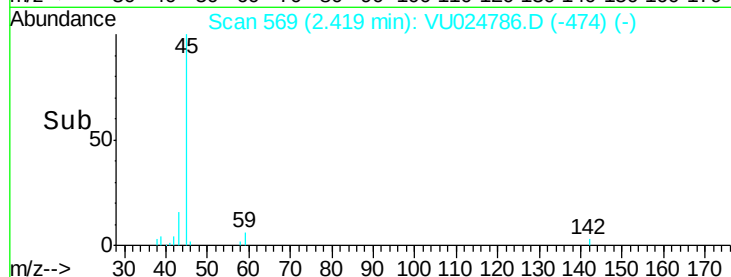
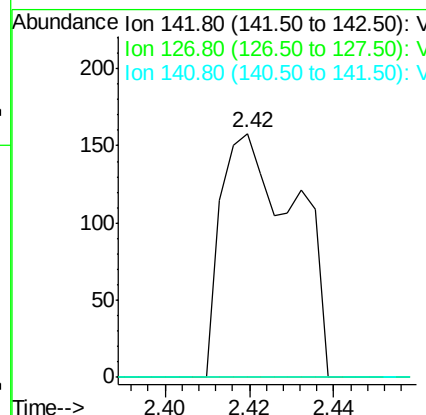
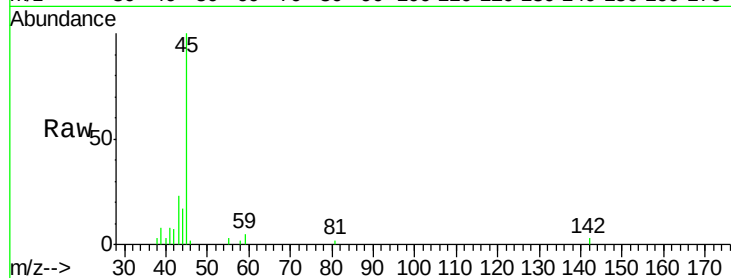




#10
Methyl Iodide
Concen: 5.371 ug/l
RT: 2.42 min Scan# 569
Delta R.T. 0.01 min
Lab File: VU024786.D
Acq: 21 Jun 2018 03:39

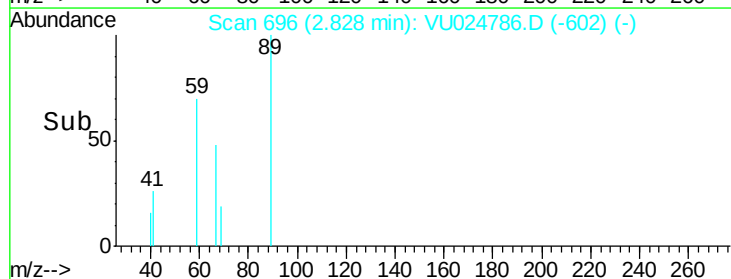
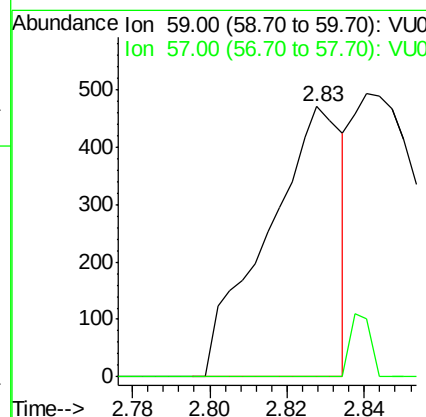
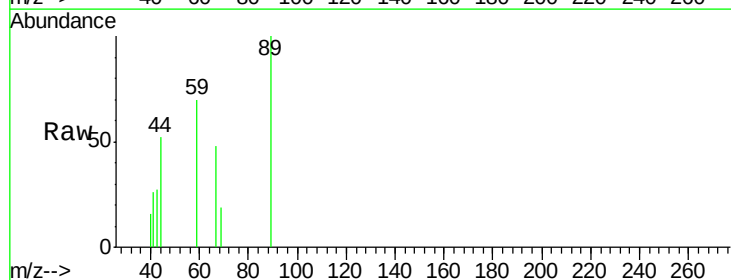
Instrument :
MSVOA_U
ClientSampleId :
CKMW03

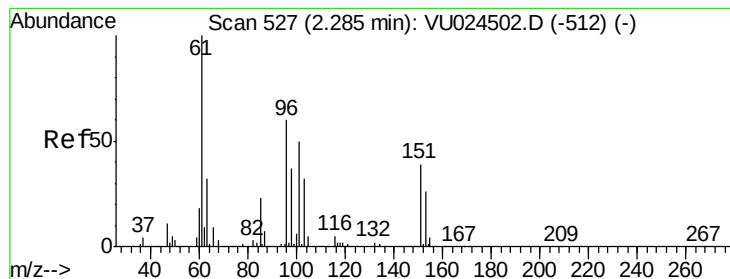
Tgt Ion: 142 Resp: 192
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 0.813 ug/l
RT: 2.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VU024786.D
Acq: 21 Jun 2018 03:39

Tgt Ion: 59 Resp: 635
Ion Ratio Lower Upper
59 100
57 6.5 8.5 12.7#





#12

1,1-Dichloroethene

Concen: 2.346 ug/l

RT: 2.29 min Scan# 528

Delta R.T. 0.00 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

CKMW03

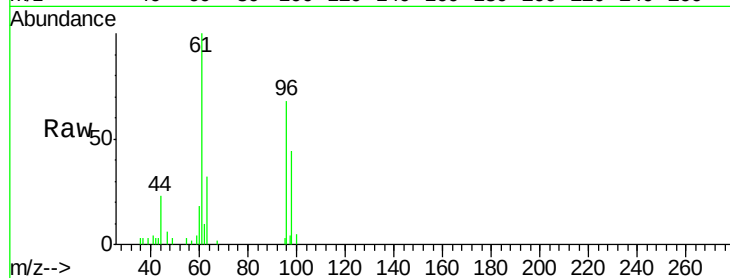
Tgt Ion: 96 Resp: 5253

Ion Ratio Lower Upper

96 100

61 146.7 141.7 212.5

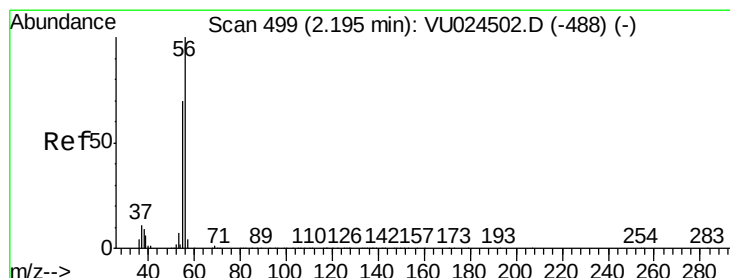
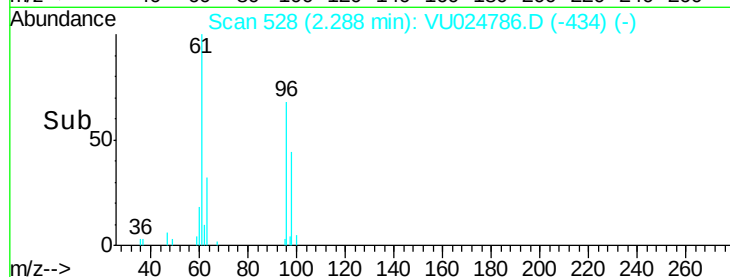
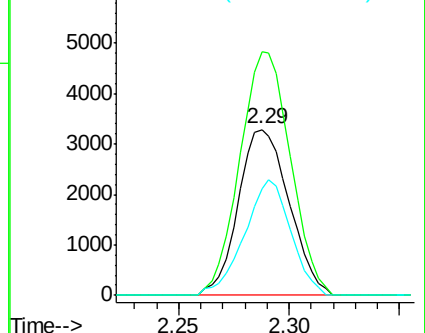
98 64.3 51.6 77.4



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



#13

Acrolein

Concen: 0.717 ug/l

RT: 2.18 min Scan# 495

Delta R.T. -0.01 min

Lab File: VU024786.D

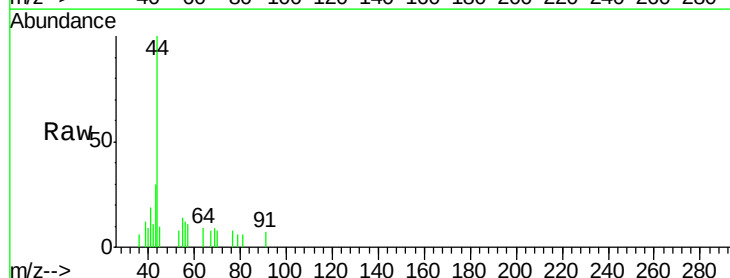
Acq: 21 Jun 2018 03:39

Tgt Ion: 56 Resp: 294

Ion Ratio Lower Upper

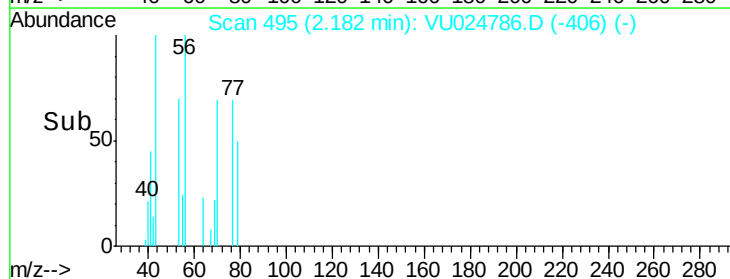
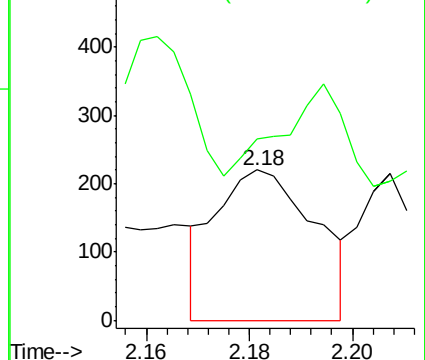
56 100

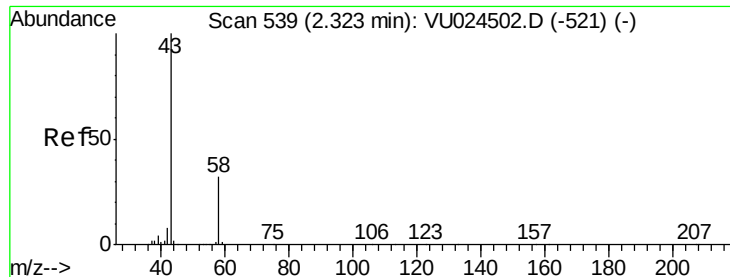
55 27.2 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0





#16

Acetone

Concen: 2.602 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

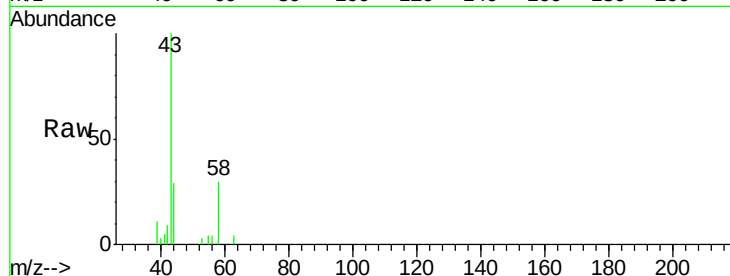
CKMW03

Tgt Ion: 43 Resp: 4488

Ion Ratio Lower Upper

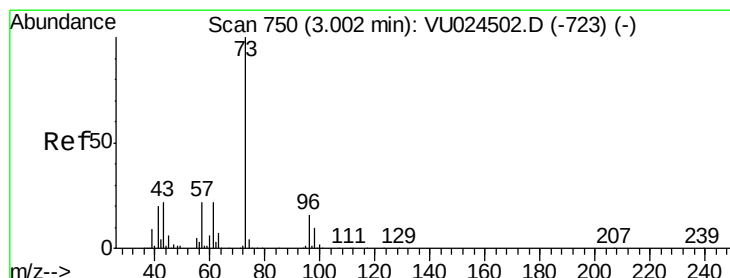
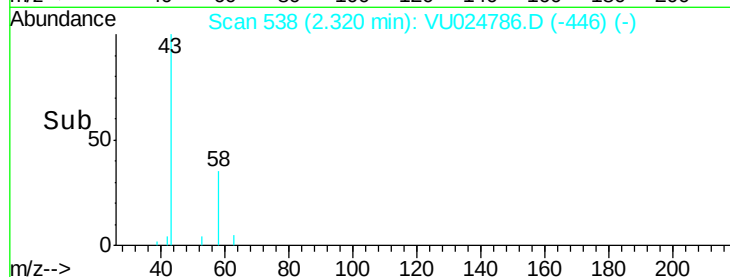
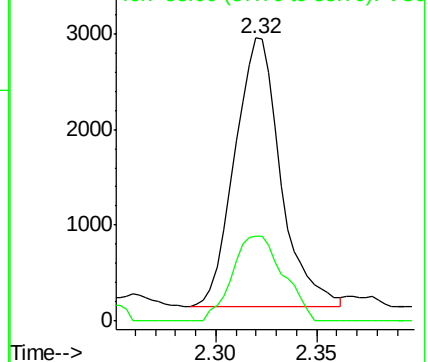
43 100

58 31.7 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0



#19

Methyl tert-butyl Ether

Concen: 0.372 ug/l

RT: 3.00 min Scan# 749

Delta R.T. -0.00 min

Lab File: VU024786.D

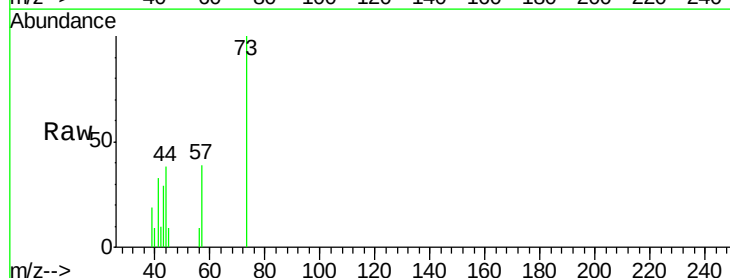
Acq: 21 Jun 2018 03:39

Tgt Ion: 73 Resp: 3133

Ion Ratio Lower Upper

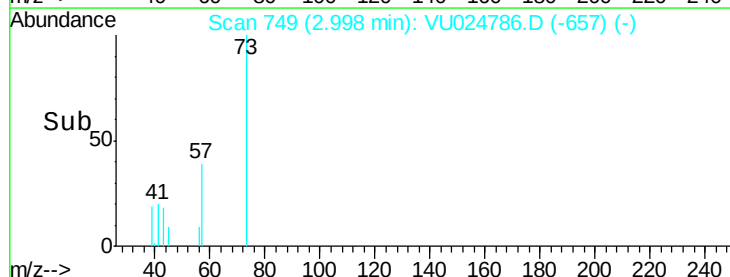
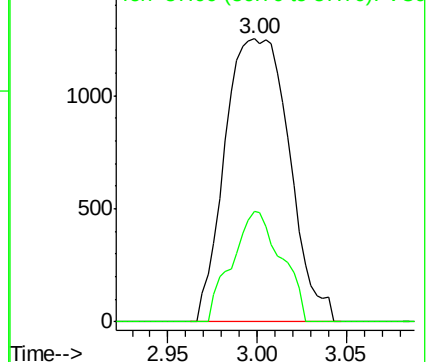
73 100

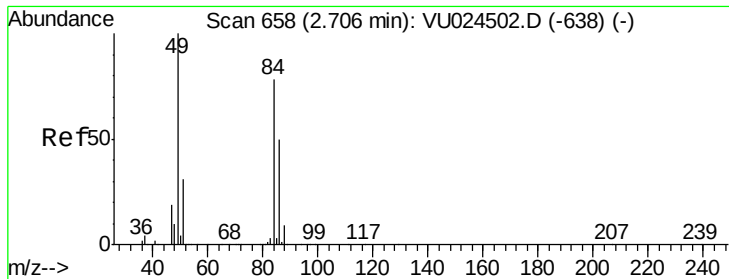
57 38.8 18.8 28.2#



Abundance Ion 73.00 (72.70 to 73.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

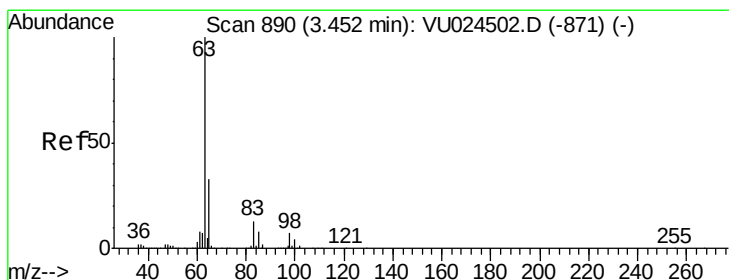
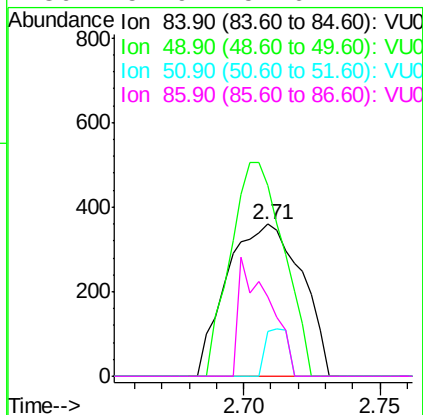
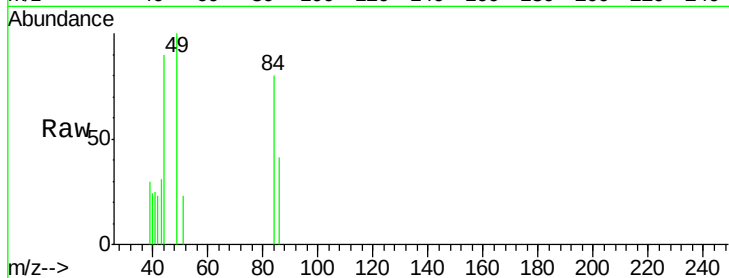




#20
Methylene Chloride
Concen: 0.254 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.00 min
Lab File: VU024786.D
Acq: 21 Jun 2018 03:39

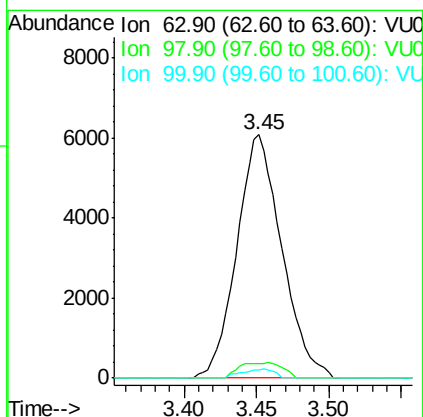
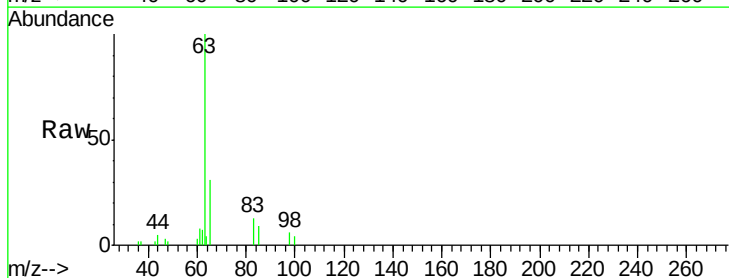
Instrument :
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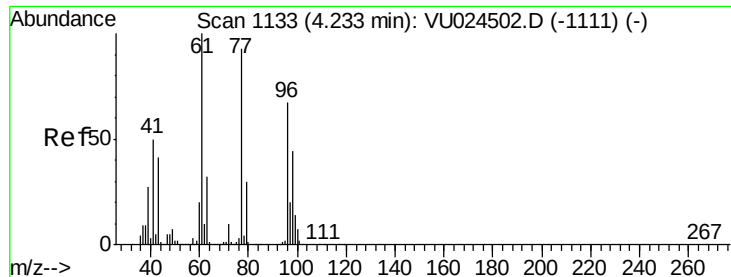
Tgt Ion:	84	Resp:	686
Ion	Ratio	Lower	Upper
84	100		
49	125.6	103.8	155.8
51	29.2	32.0	48.0#
86	51.9	51.6	77.4



#24
1,1-Dichloroethane
Concen: 2.762 ug/l
RT: 3.45 min Scan# 890
Delta R.T. -0.00 min
Lab File: VU024786.D
Acq: 21 Jun 2018 03:39

Tgt Ion:	63	Resp:	13091
Ion	Ratio	Lower	Upper
63	100		
98	6.0	3.5	10.4
100	3.6	1.8	5.5

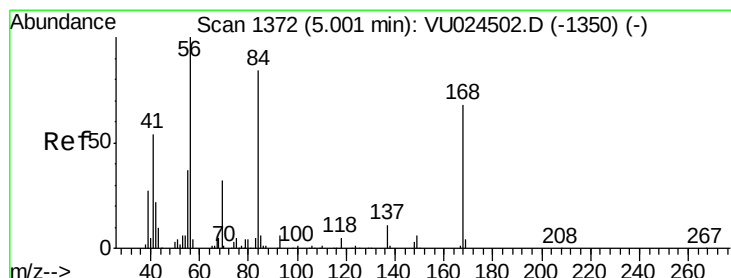
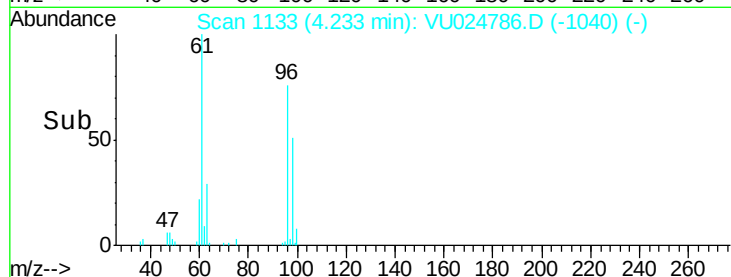
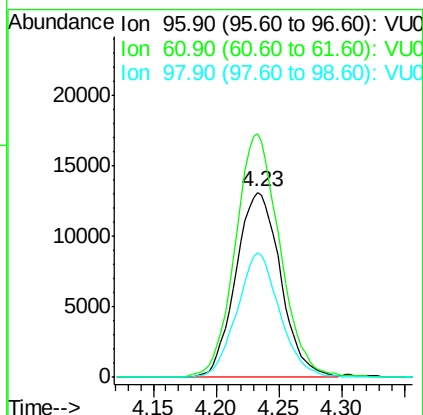
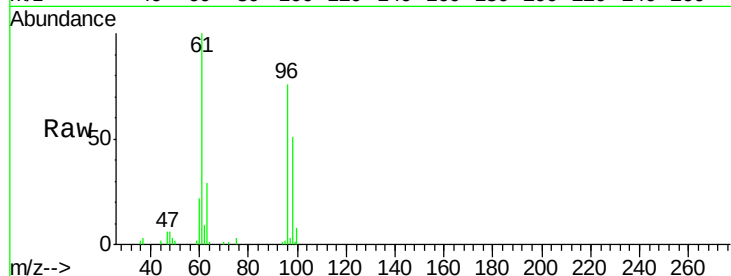




#27
 cis-1,2-Dichloroethene
 Concen: 11.483 ug/l
 RT: 4.23 min Scan# 1133
 Delta R.T. -0.00 min
 Lab File: VU024786.D
 Acq: 21 Jun 2018 03:39

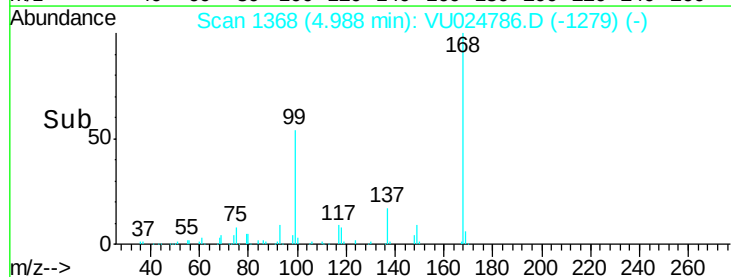
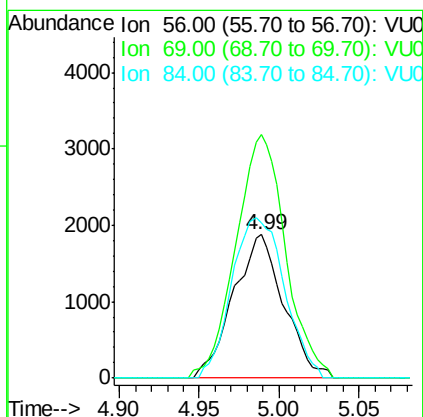
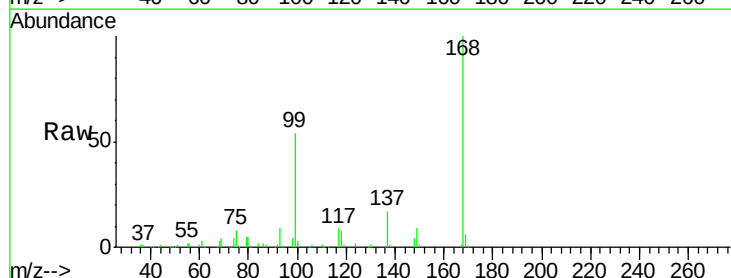
Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW03

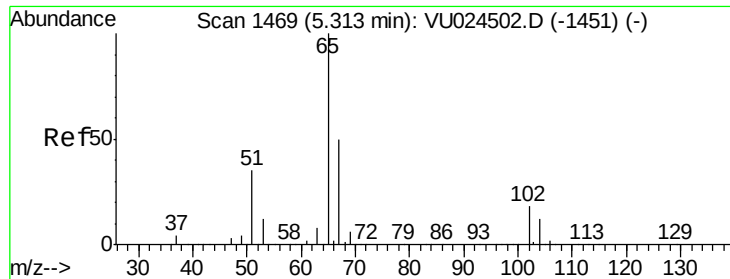
Tgt Ion: 96 Resp: 32551
 Ion Ratio Lower Upper
 96 100
 61 130.8 0.0 306.6
 98 64.1 0.0 128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VU024786.D
 Acq: 21 Jun 2018 03:39

Tgt Ion: 56 Resp: 4040
 Ion Ratio Lower Upper
 56 100
 69 170.1 24.8 37.2#
 84 108.1 65.2 97.8#

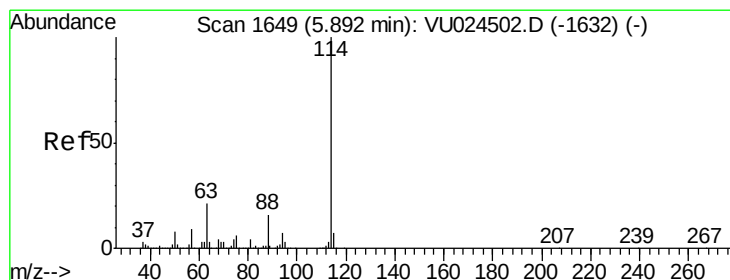
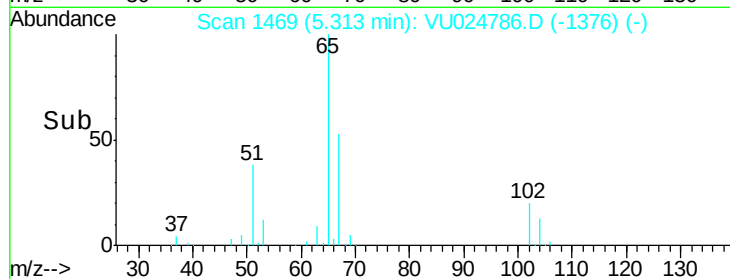
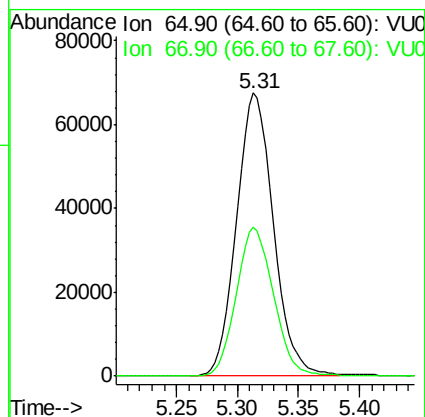
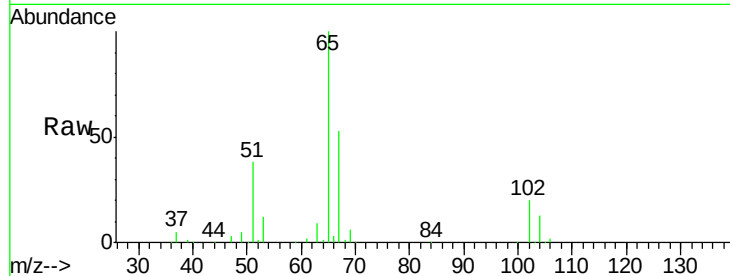




#33
 1,2-Dichloroethane-d4
 Concen: 44.126 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. -0.00 min
 Lab File: VU024786.D
 Acq: 21 Jun 2018 03:39

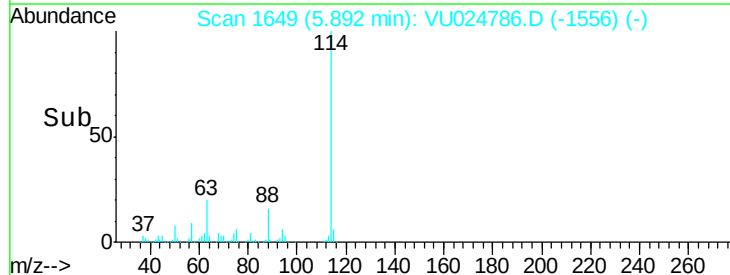
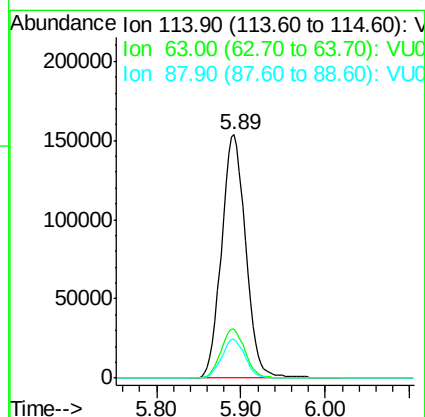
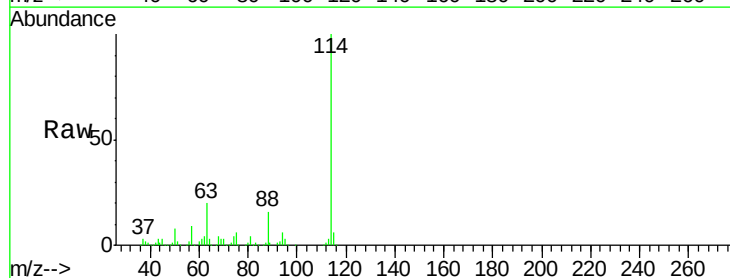
Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW03

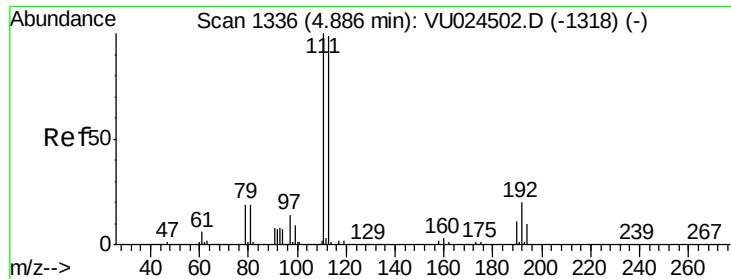
Tgt Ion: 65 Resp: 141635
 Ion Ratio Lower Upper
 65 100
 67 53.0 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. -0.00 min
 Lab File: VU024786.D
 Acq: 21 Jun 2018 03:39

Tgt Ion: 114 Resp: 307212
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 45.4
 88 16.2 0.0 31.0

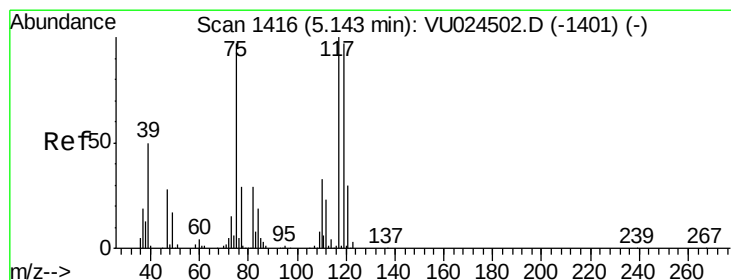
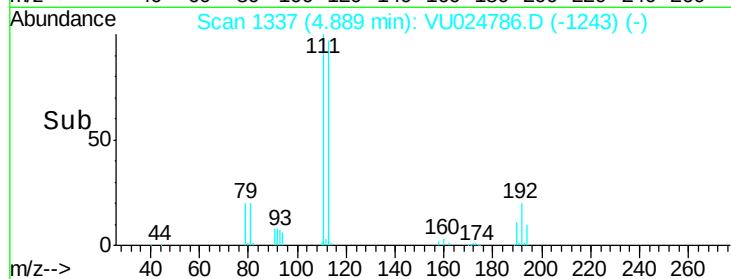
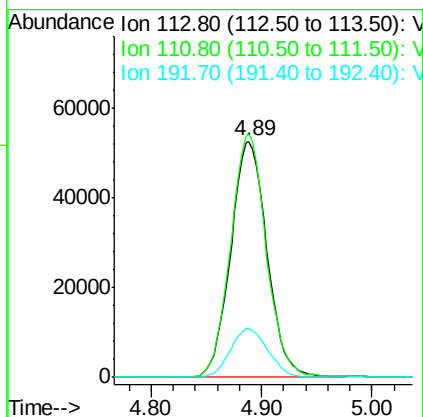
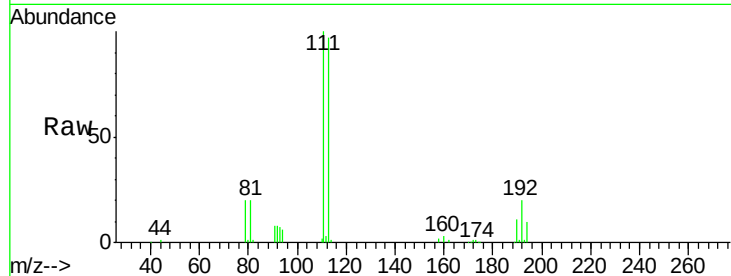




#35
 Dibromofluoromethane
 Concen: 47.038 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024786.D
 Acq: 21 Jun 2018 03:39

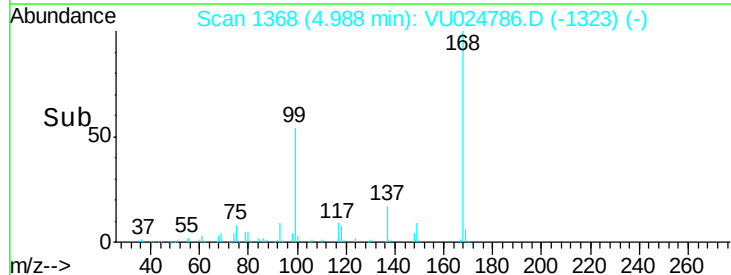
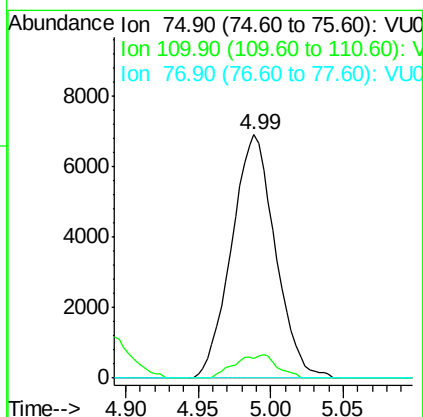
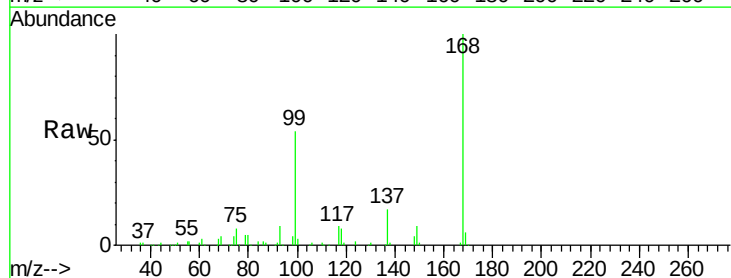
Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW03

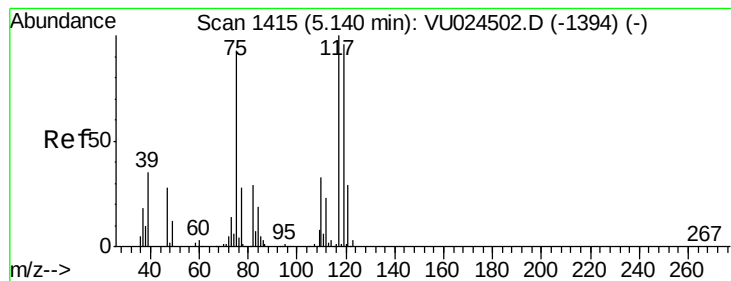
Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.2	123.4
192	21.4	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.005 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024786.D
 Acq: 21 Jun 2018 03:39

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.608 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

CKMW03

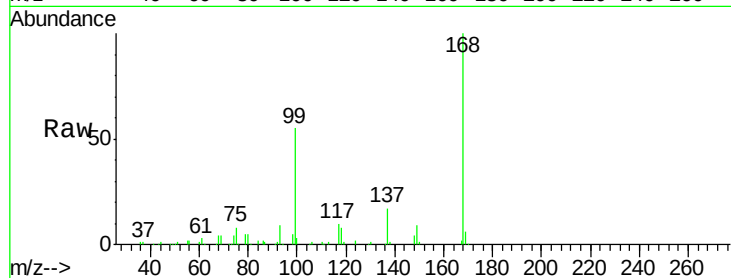
Tgt Ion:117 Resp: 18291

Ion Ratio Lower Upper

117 100

119 5.8 76.1 114.1#

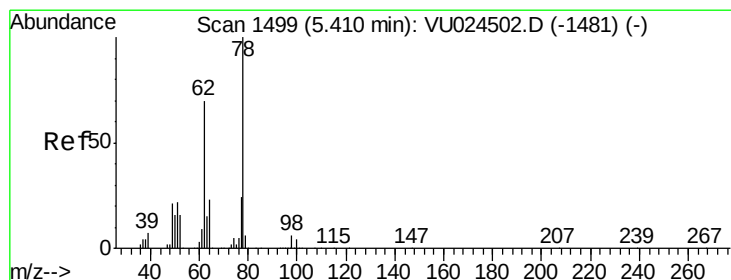
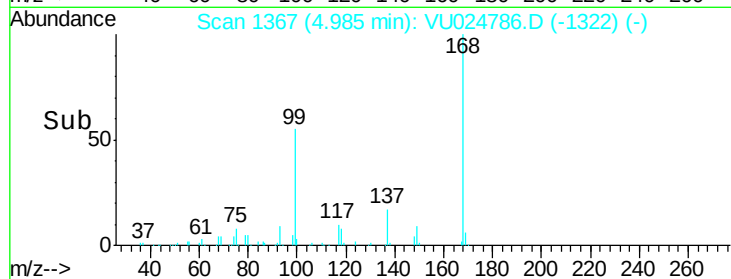
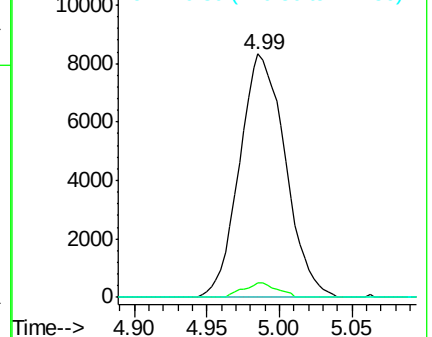
121 0.0 23.7 35.5#



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



#42

1,2-Dichloroethane

Concen: 0.218 ug/l

RT: 5.41 min Scan# 1500

Delta R.T. 0.00 min

Lab File: VU024786.D

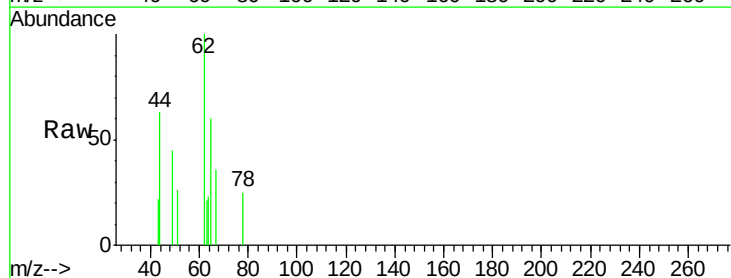
Acq: 21 Jun 2018 03:39

Tgt Ion: 62 Resp: 853

Ion Ratio Lower Upper

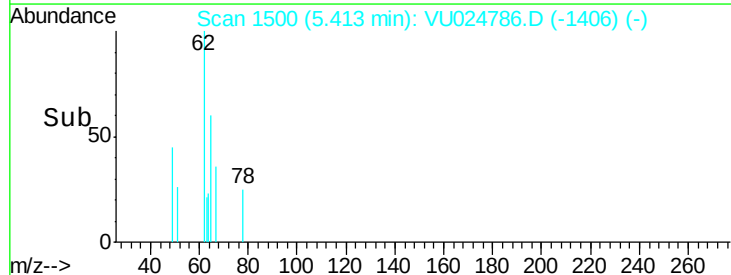
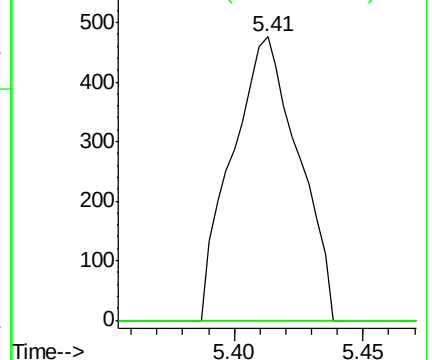
62 100

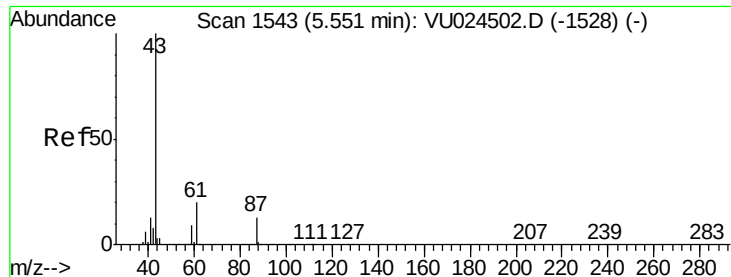
98 0.0 0.0 16.6



Abundance Ion 61.90 (61.60 to 62.60): VU0

Ion 97.90 (97.60 to 98.60): VU0





#43

Isopropyl Acetate

Concen: 1.482 ug/l

RT: 5.82 min Scan# 1628

Delta R.T. 0.27 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

CKMW03

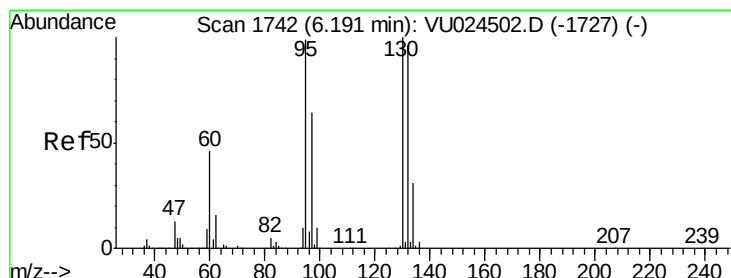
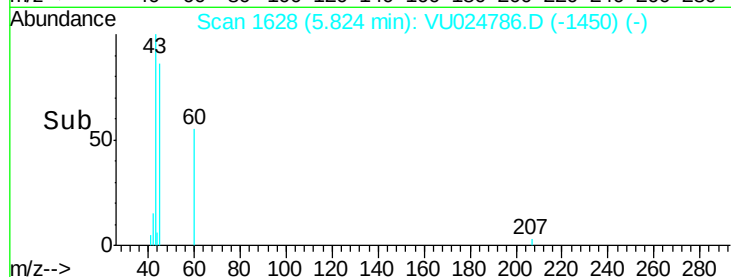
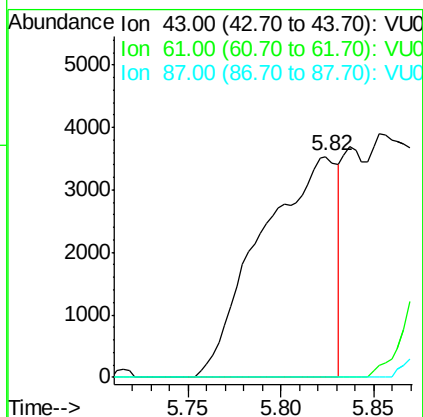
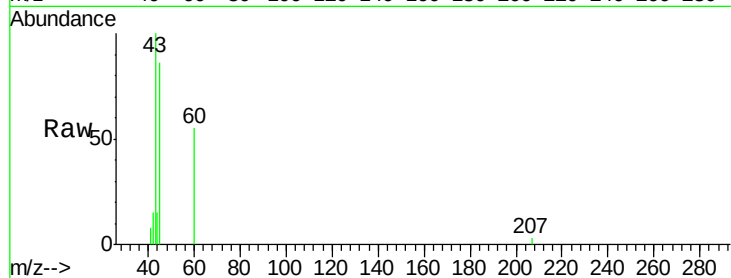
Tgt Ion: 43 Resp: 10081

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

87 0.0 10.0 15.0#



#44

Trichloroethene

Concen: 7.787 ug/l

RT: 6.19 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VU024786.D

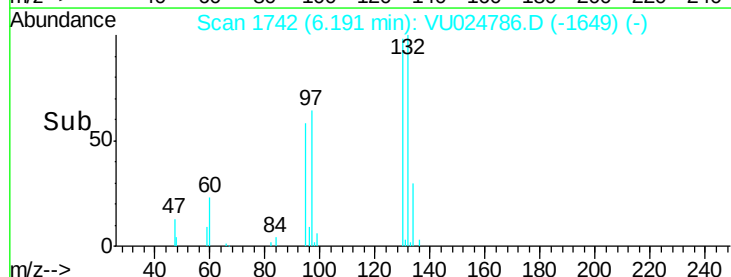
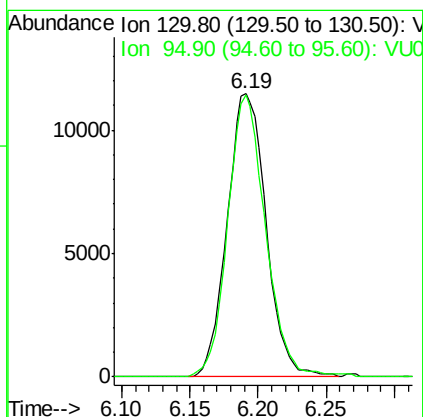
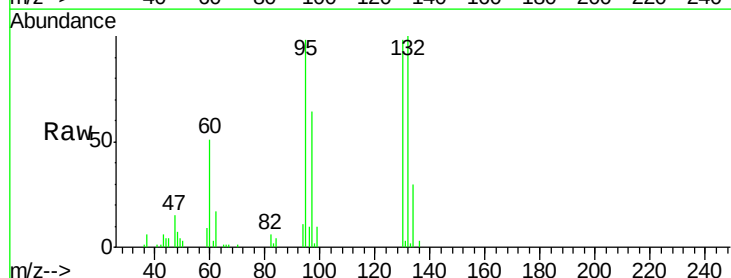
Acq: 21 Jun 2018 03:39

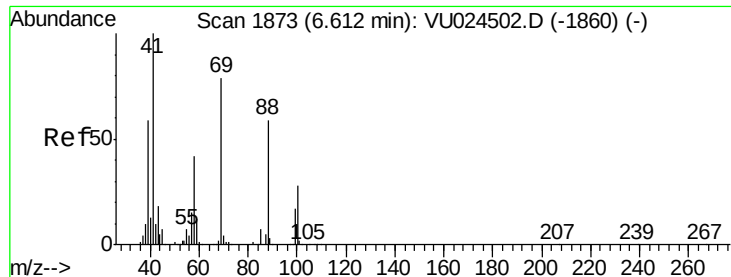
Tgt Ion: 130 Resp: 22797

Ion Ratio Lower Upper

130 100

95 99.9 0.0 202.4

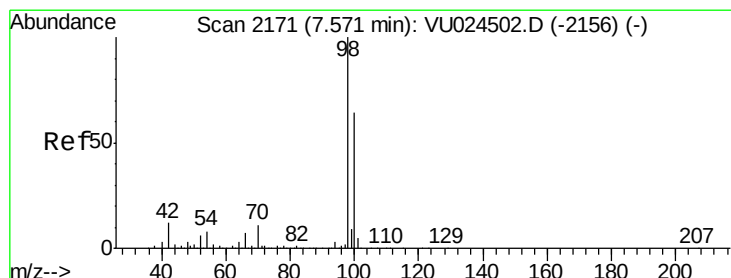
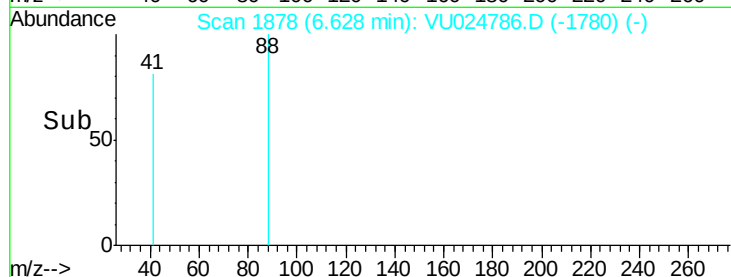
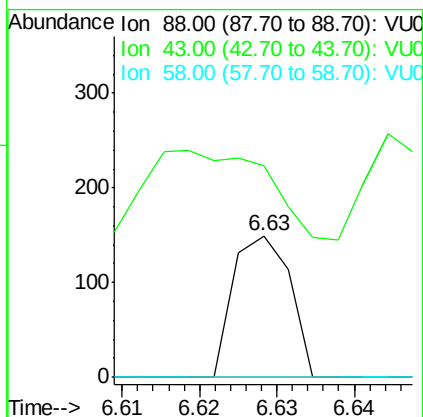
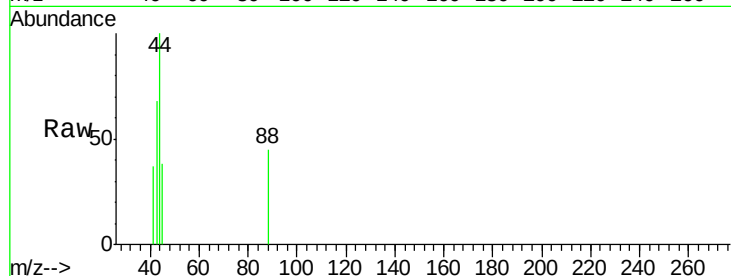




#49
1,4-Dioxane
Concen: 1.173 ug/l
RT: 6.63 min Scan# 1878
Delta R.T. 0.02 min
Lab File: VU024786.D
Acq: 21 Jun 2018 03:39

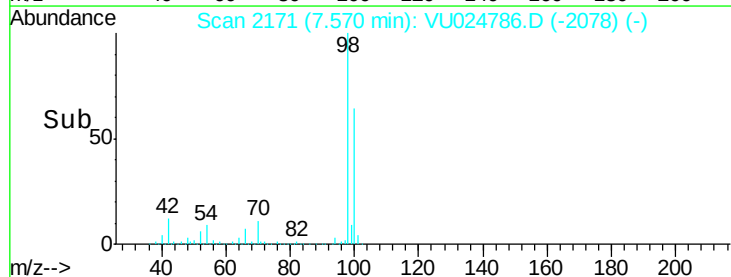
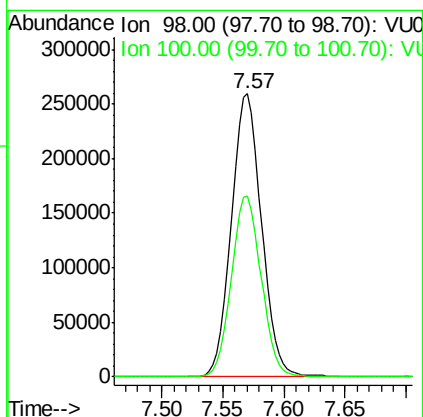
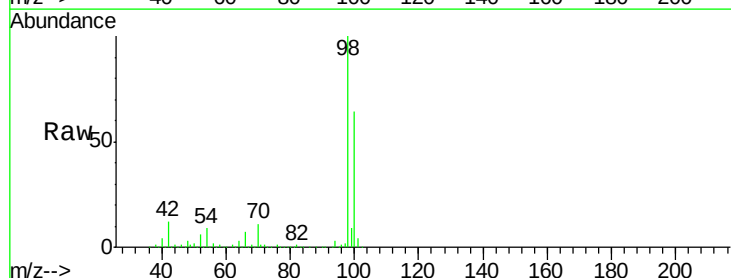
Instrument :
MSVOA_U
ClientSampleId :
CKMW03

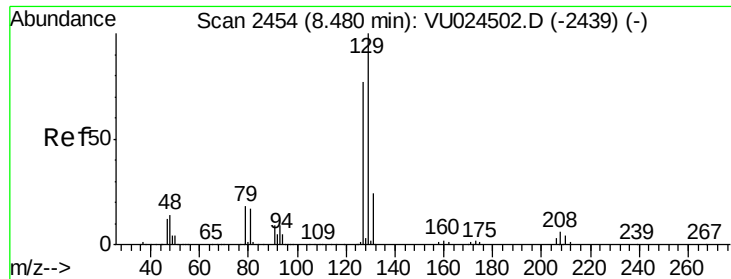
Tgt Ion: 88 Resp: 76
Ion Ratio Lower Upper
88 100
43 146.1 28.6 42.8#
58 0.0 58.2 87.4#



#50
Toluene-d8
Concen: 48.074 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024786.D
Acq: 21 Jun 2018 03:39

Tgt Ion: 98 Resp: 447091
Ion Ratio Lower Upper
98 100
100 63.4 51.1 76.7





#60

Dibromochloromethane

Concen: 6.611 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. -0.25 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

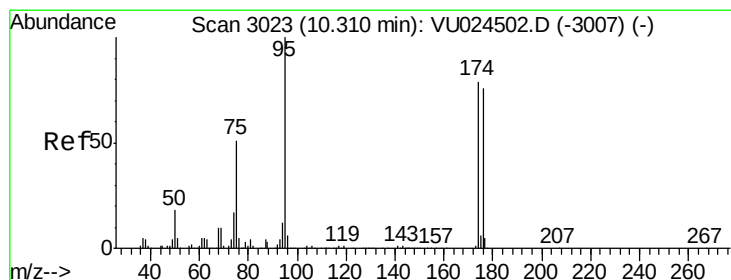
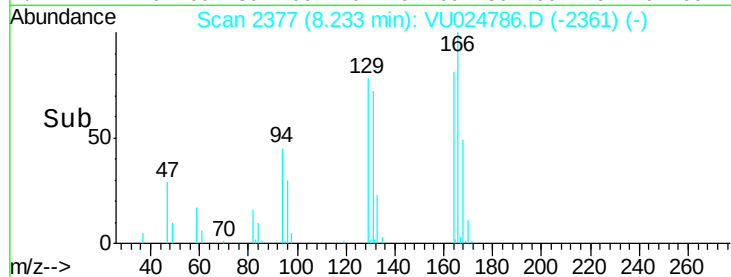
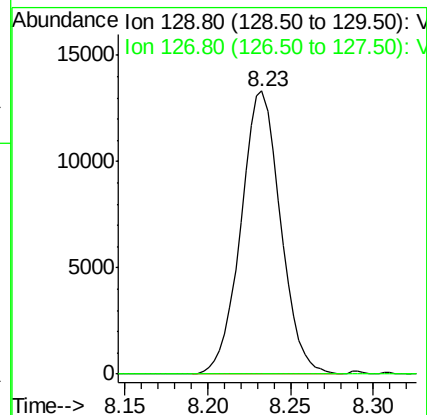
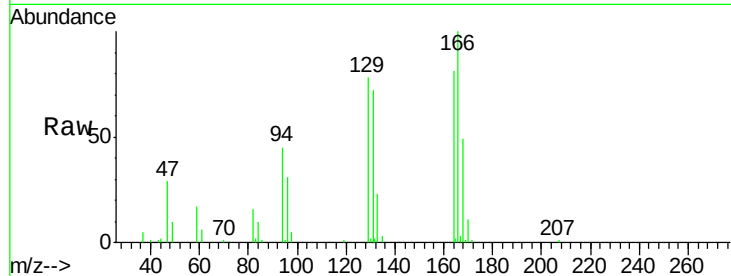
CKMW03

Tgt Ion:129 Resp: 22176

Ion Ratio Lower Upper

129 100

127 0.0 38.6 116.0#



#62

4-Bromofluorobenzene

Concen: 44.255 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.00 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

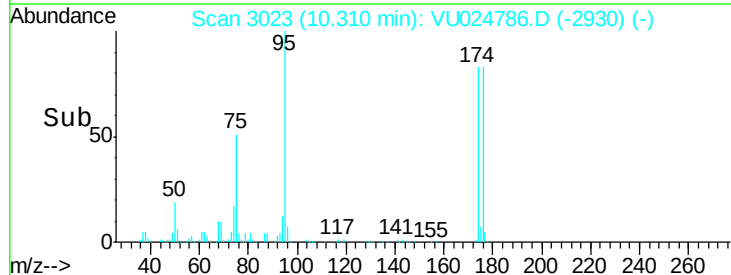
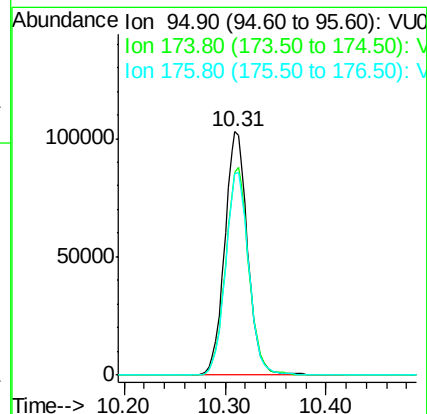
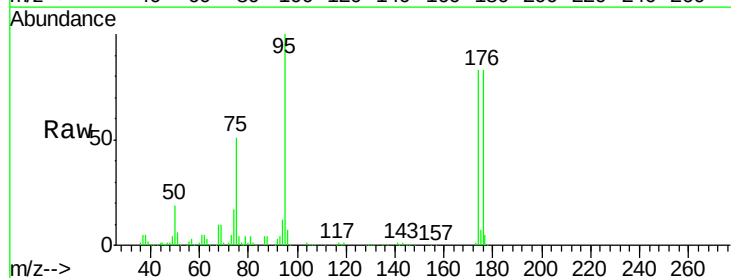
Tgt Ion: 95 Resp: 163410

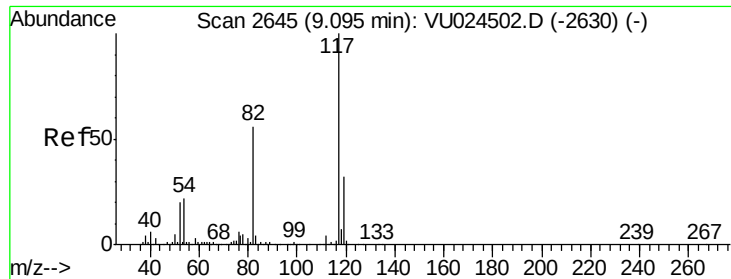
Ion Ratio Lower Upper

95 100

174 85.8 0.0 165.8

176 84.3 0.0 159.4

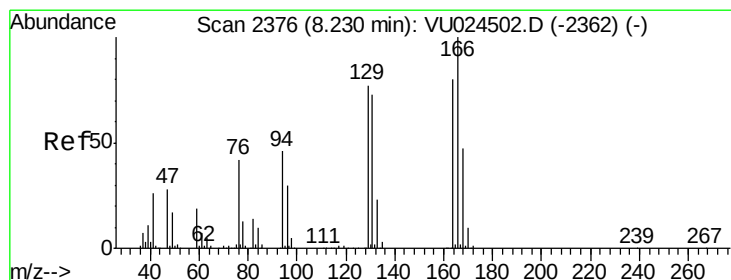
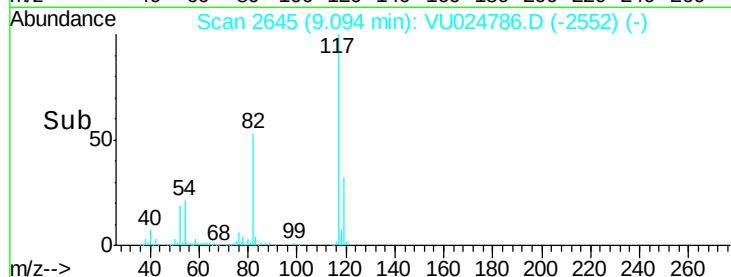
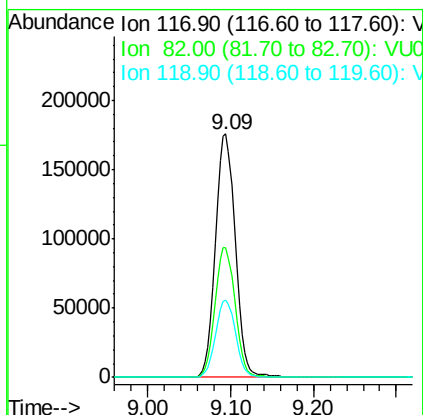
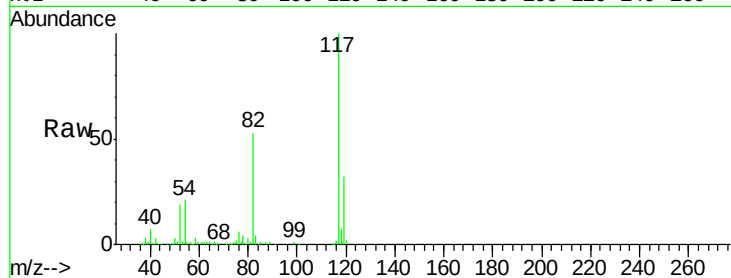




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024786.D
Acq: 21 Jun 2018 03:39

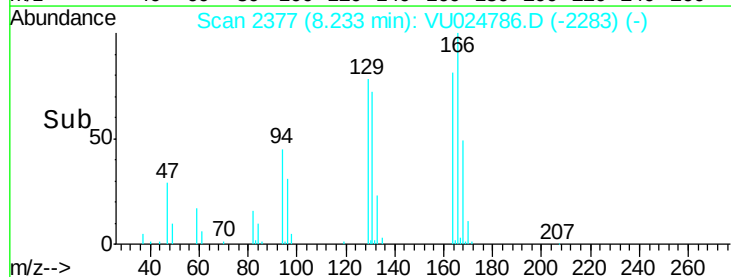
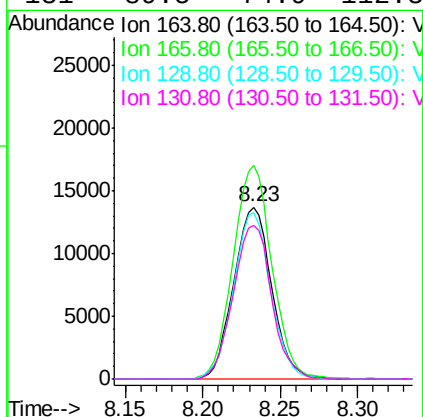
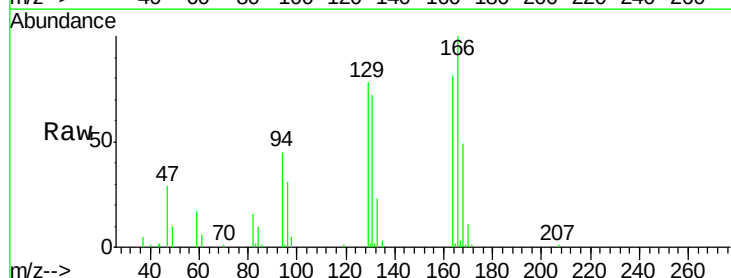
Instrument :
MSVOA_U
ClientSampleId :
CKMW03

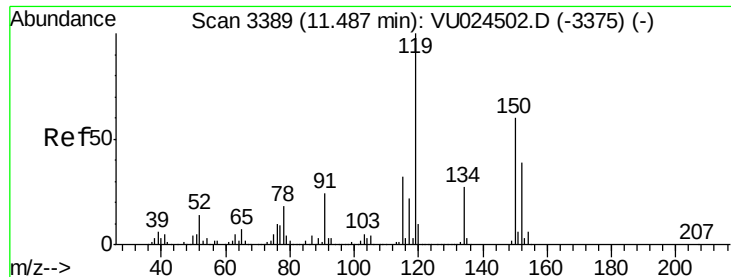
Tgt Ion:117 Resp: 292043
Ion Ratio Lower Upper
117 100
82 53.4 44.3 66.5
119 31.8 25.4 38.2



#64
Tetrachloroethene
Concen: 8.424 ug/l
RT: 8.23 min Scan# 2377
Delta R.T. 0.00 min
Lab File: VU024786.D
Acq: 21 Jun 2018 03:39

Tgt Ion:164 Resp: 23385
Ion Ratio Lower Upper
164 100
166 124.2 101.7 152.5
129 97.1 76.9 115.3
131 89.5 74.9 112.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

CKMW03

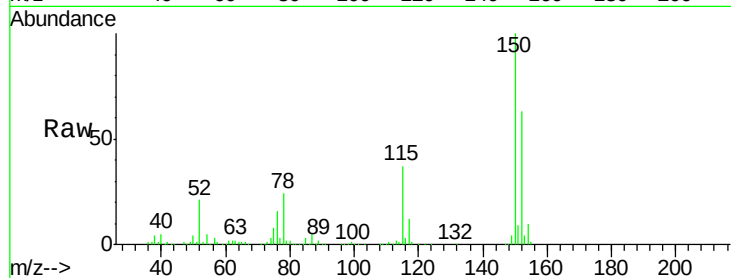
Tgt Ion:152 Resp: 156301

Ion Ratio Lower Upper

152 100

115 57.3 43.0 129.0

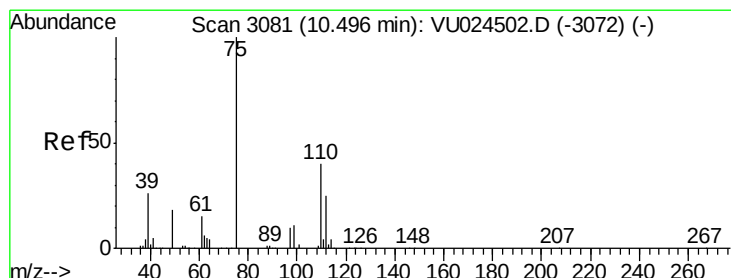
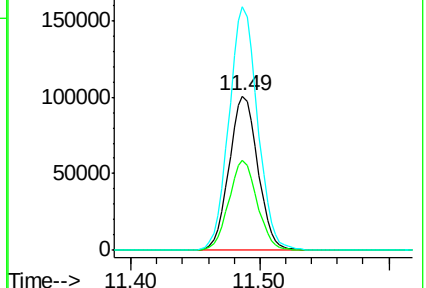
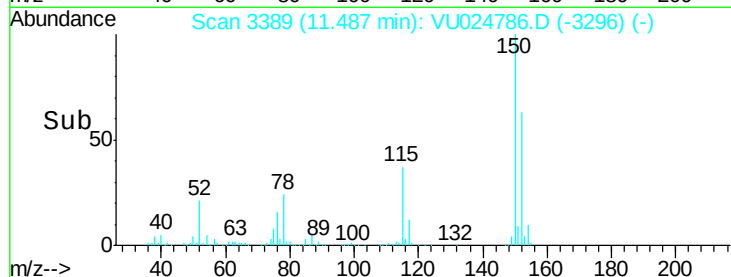
150 156.8 0.0 354.0



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: 24.114 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024786.D

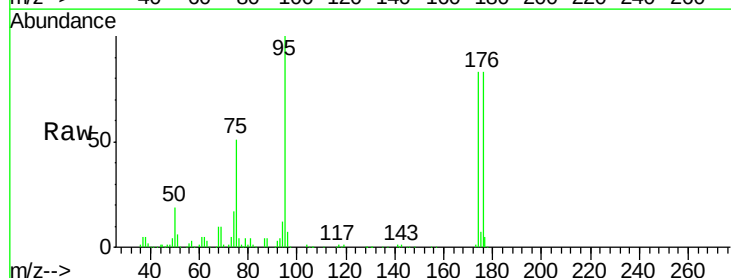
Acq: 21 Jun 2018 03:39

Tgt Ion: 75 Resp: 82979

Ion Ratio Lower Upper

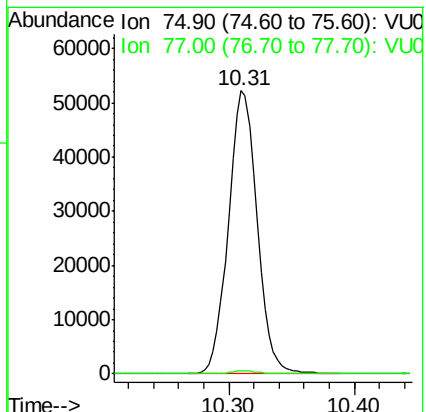
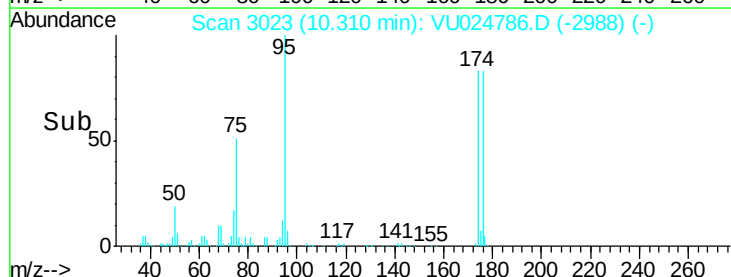
75 100

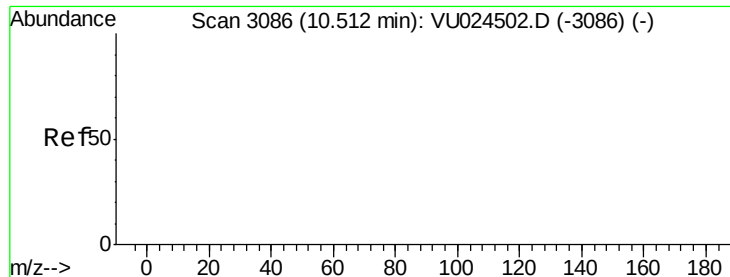
77 1.1 20.9 62.7#



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: 55.809 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

Instrument :

MSVOA_U

ClientSampleId :

CKMW03

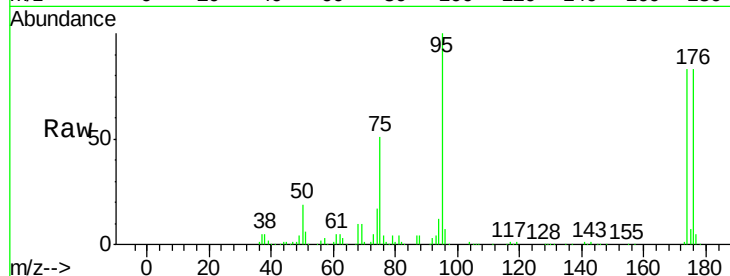
Tgt Ion: 75 Resp: 82979

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

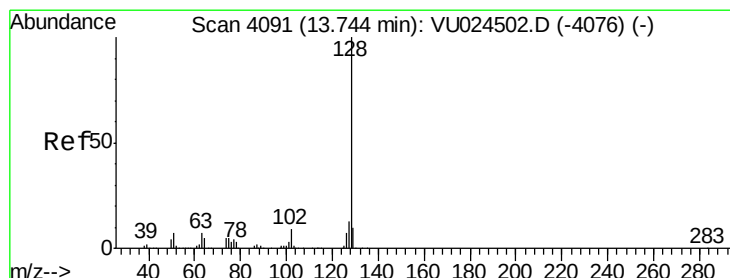
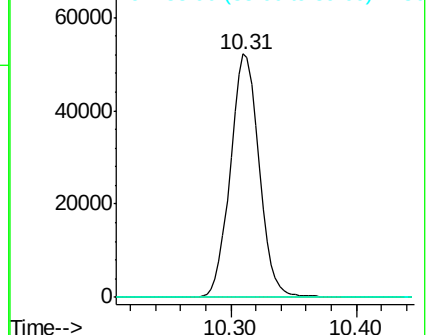
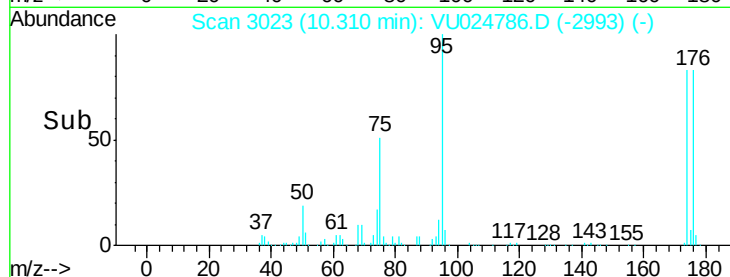
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024786.D (-2993) (-)

Ion 53.00 (52.70 to 53.70): VU024786.D (-2993) (-)

Ion 88.90 (88.60 to 89.60): VU024786.D (-2993) (-)



#95

Naphthalene

Concen: 0.721 ug/l

RT: 13.76 min Scan# 4097

Delta R.T. 0.02 min

Lab File: VU024786.D

Acq: 21 Jun 2018 03:39

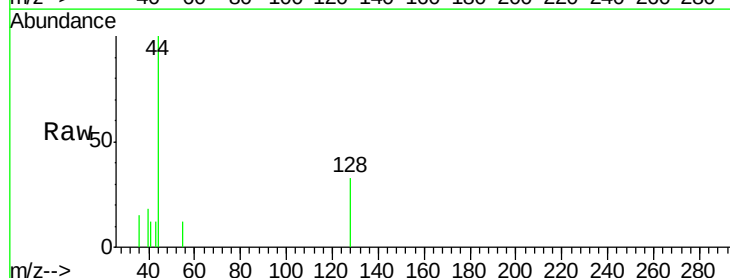
Tgt Ion: 128 Resp: 483

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VU024786.D (-3997) (-)

Ion 127.00 (126.70 to 127.70): VU024786.D (-3997) (-)

Ion 129.00 (128.70 to 129.70): VU024786.D (-3997) (-)

