

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
 Data File : VU024784.D
 Acq On : 21 Jun 2018 02:50
 Operator : MD/SY
 Sample : J3585-01
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW02

Quant Time: Jun 21 07:57:54 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	197968	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	310098	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	289094	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	160199	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	140838	43.58	ug/l	0.00
Spiked Amount			Recovery	=	87.16%	
35) Dibromofluoromethane	4.89	113	120488	46.82	ug/l	0.00
Spiked Amount			Recovery	=	93.64%	
50) Toluene-d8	7.57	98	449780	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
62) 4-Bromofluorobenzene	10.31	95	164755	44.20	ug/l	0.00
Spiked Amount			Recovery	=	88.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	964	0.381	ug/l	95
4) Vinyl Chloride	1.40	62	739	0.283	ug/l	90
5) Bromomethane	1.64	94	421	0.334	ug/l #	50
6) Chloroethane	1.71	64	92	Below Cal	#	43
10) Methyl Iodide	2.41	142	105	5.333	ug/l #	40
11) Tert butyl alcohol	2.83	59	3632	4.621	ug/l #	76
12) 1,1-Dichloroethene	2.29	96	1495	0.663	ug/l #	73
13) Acrolein	2.20	56	235	0.569	ug/l #	65
16) Acetone	2.32	43	2498	1.439	ug/l #	87
24) 1,1-Dichloroethane	3.45	63	30670	6.426	ug/l	98
26) 2,2-Dichloropropane	4.19	77	1089	0.240	ug/l #	53
27) cis-1,2-Dichloroethene	4.23	96	6973	2.443	ug/l	91
31) Cyclohexane	4.99	56	3739	Below Cal	#	27
36) 1,1-Dichloropropene	4.99	75	13844	3.799	ug/l #	51
38) Carbon Tetrachloride	4.99	117	18253	4.555	ug/l #	16
43) Isopropyl Acetate	5.81	43	16416	2.391	ug/l #	62
44) Trichloroethene	6.19	130	2699	0.913	ug/l	85
49) 1,4-Dioxane	6.63	88	20	0.306	ug/l #	1
76) 1,2,3-Trichloropropane	10.31	75	85922	24.361	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	85922	56.382	ug/l #	100
95) Naphthalene	13.76	128	958	0.759	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

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ClientSampleId :

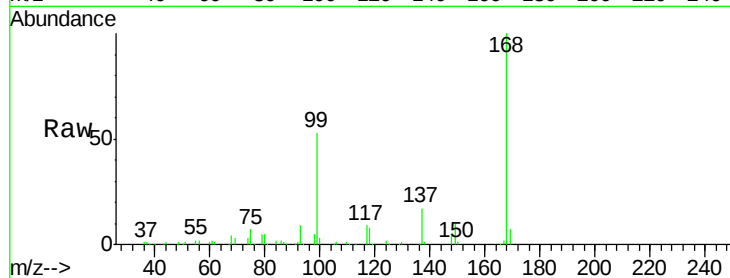
CKMW02

Tgt Ion:168 Resp: 197968

Ion Ratio Lower Upper

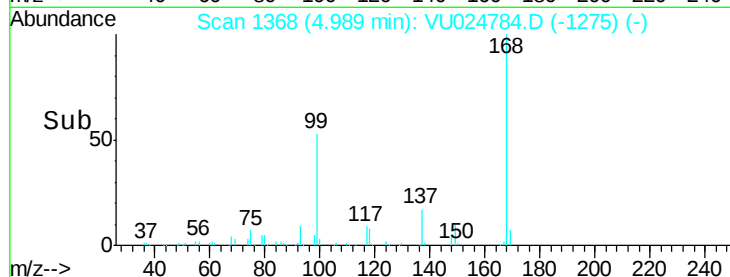
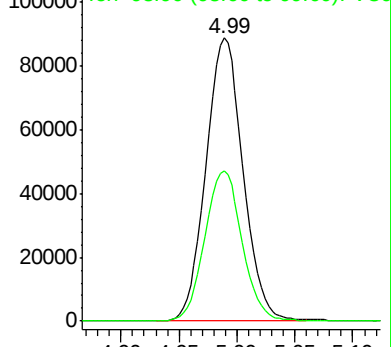
168 100

99 53.1 43.2 64.8



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

Ion 98.90 (98.60 to 99.60): VU024502.D



#3

Chloromethane

Concen: 0.381 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024784.D

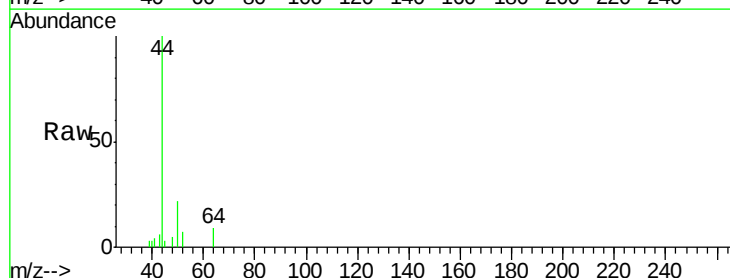
Acq: 21 Jun 2018 02:50

Tgt Ion: 50 Resp: 964

Ion Ratio Lower Upper

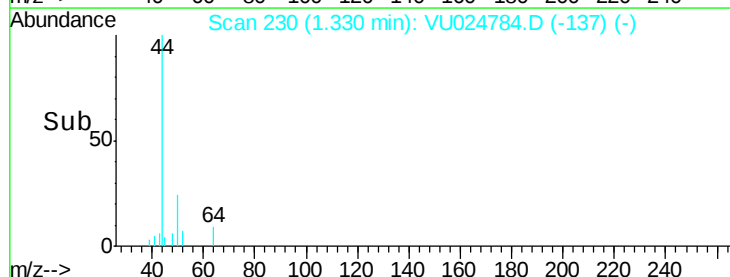
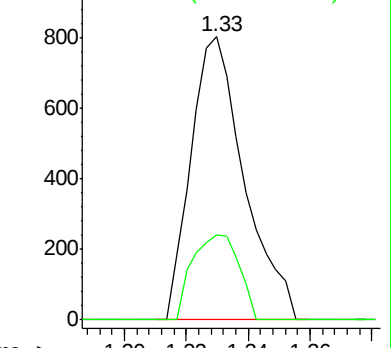
50 100

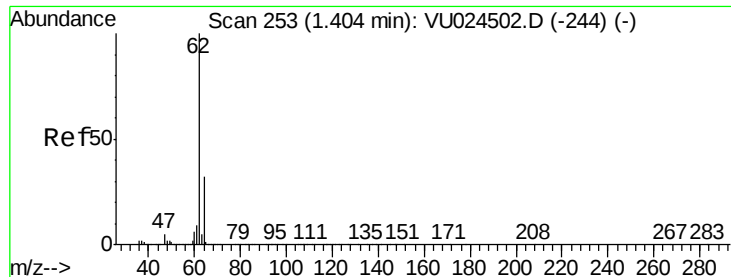
52 30.2 26.4 39.6



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

Ion 51.90 (51.60 to 52.60): VU024502.D





#4

Vinyl Chloride

Concen: 0.283 ug/l

RT: 1.40 min Scan# 253

Delta R.T. 0.00 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

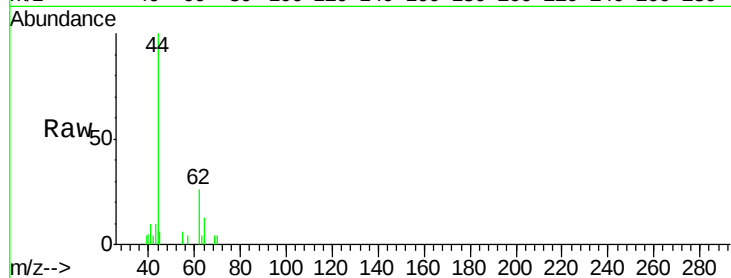
CKMW02

Tgt Ion: 62 Resp: 739

Ion Ratio Lower Upper

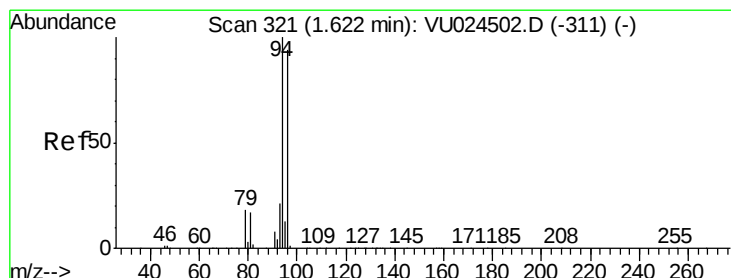
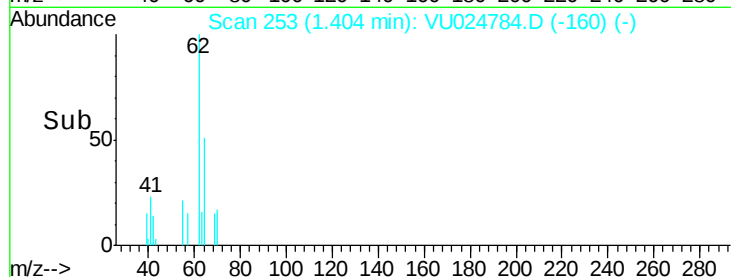
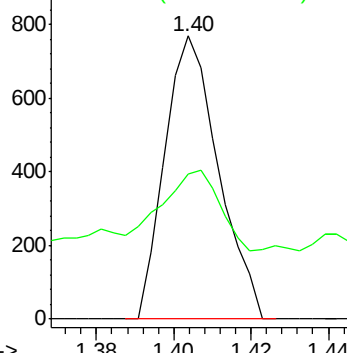
62 100

64 25.5 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: 0.334 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024784.D

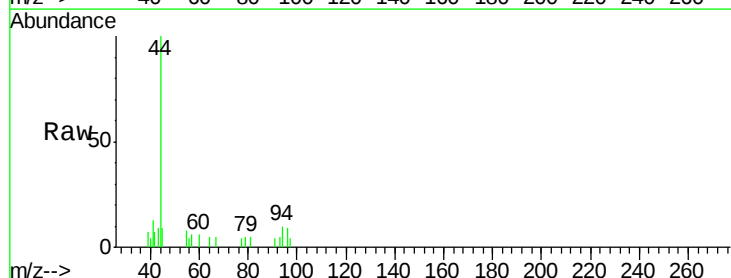
Acq: 21 Jun 2018 02:50

Tgt Ion: 94 Resp: 421

Ion Ratio Lower Upper

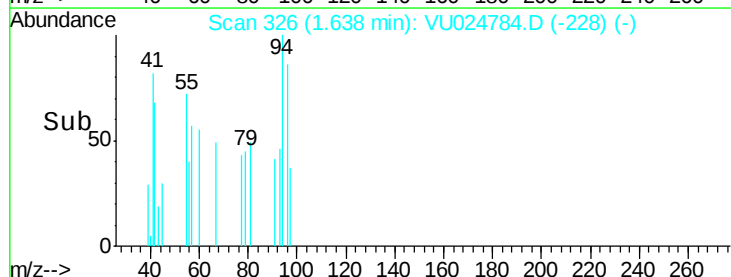
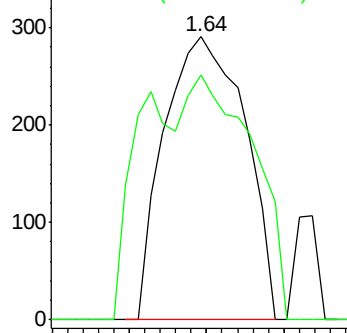
94 100

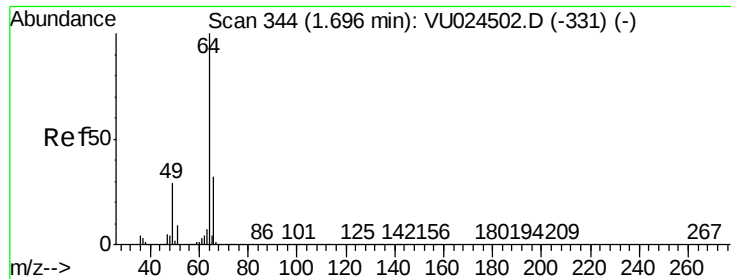
96 44.7 74.5 111.7#



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: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

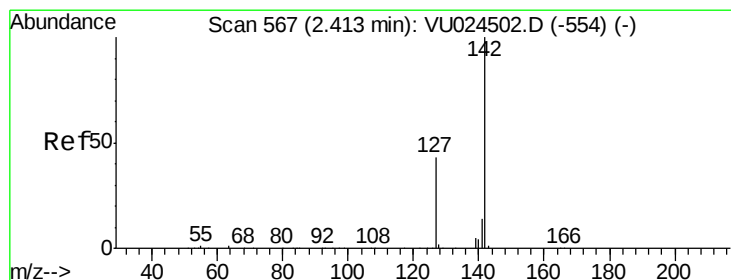
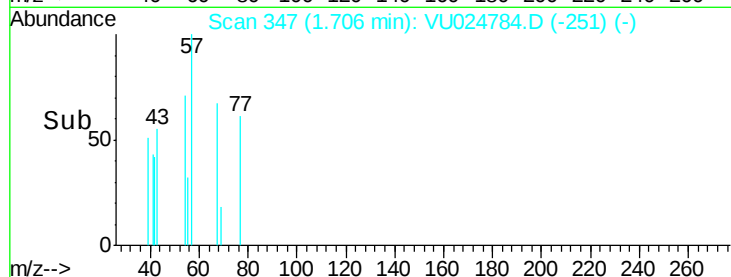
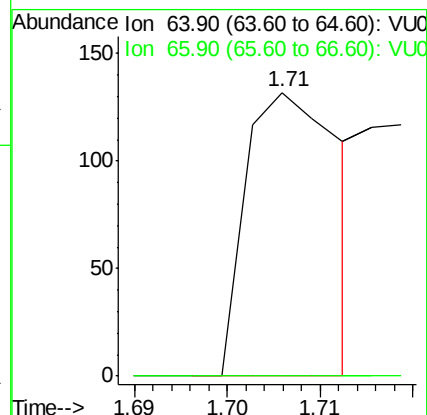
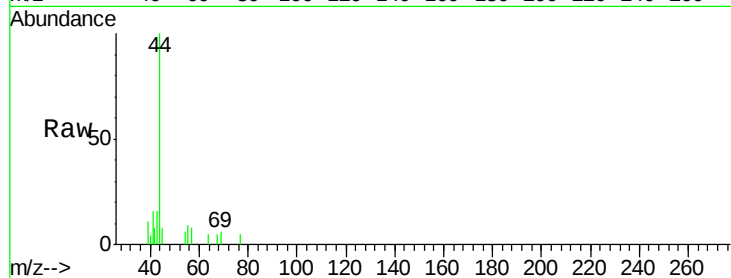
CKMW02

Tgt Ion: 64 Resp: 92

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#10

Methyl Iodide

Concen: 5.333 ug/l

RT: 2.41 min Scan# 566

Delta R.T. -0.00 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

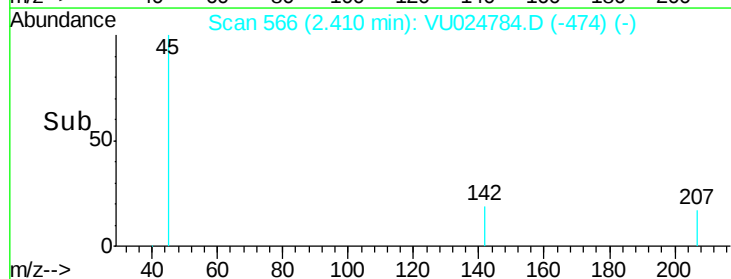
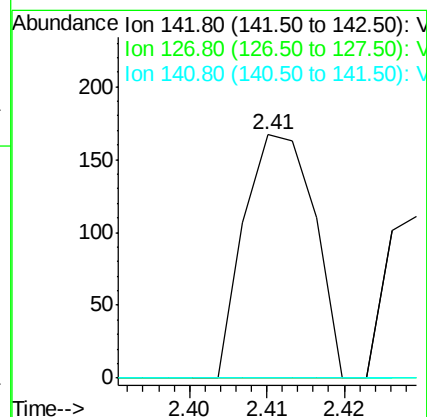
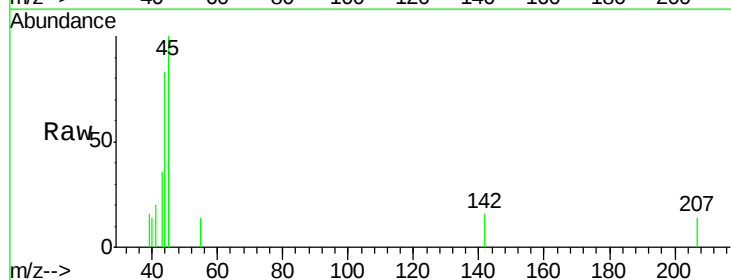
Tgt Ion: 142 Resp: 105

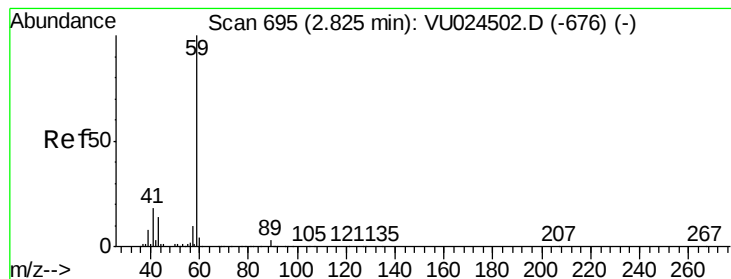
Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#



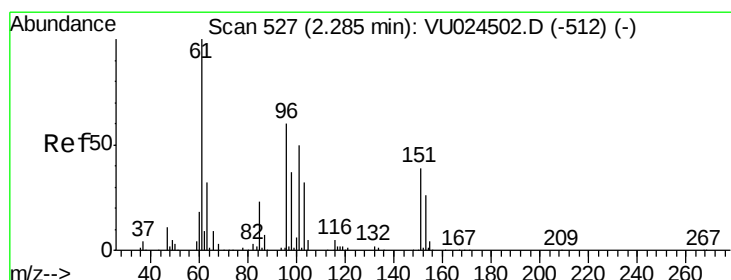
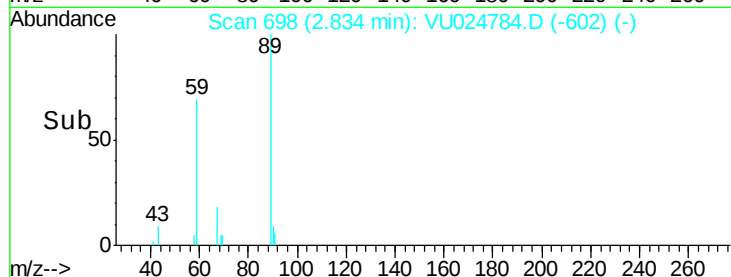
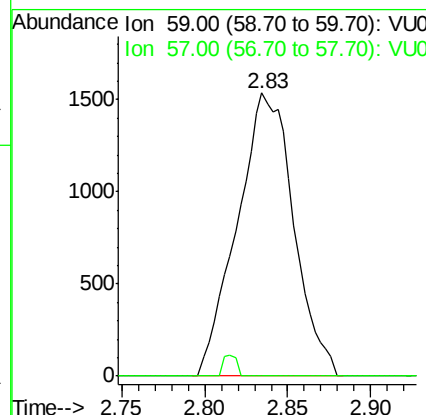
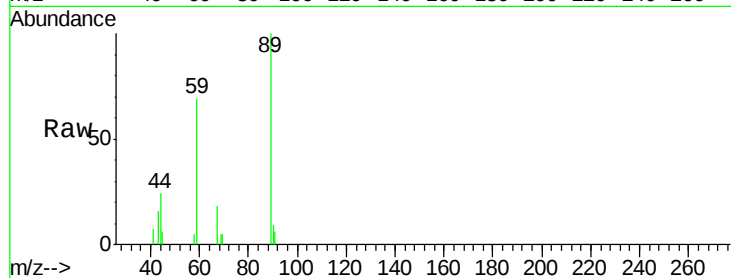


#11

Tert butyl alcohol
 Concen: 4.621 ug/l
 RT: 2.83 min Scan# 698
 Delta R.T. 0.01 min
 Lab File: VU024784.D
 Acq: 21 Jun 2018 02:50

Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW02

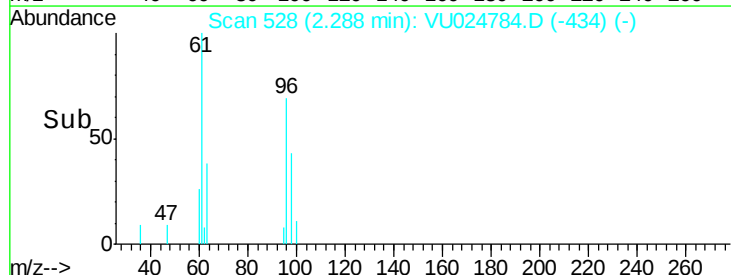
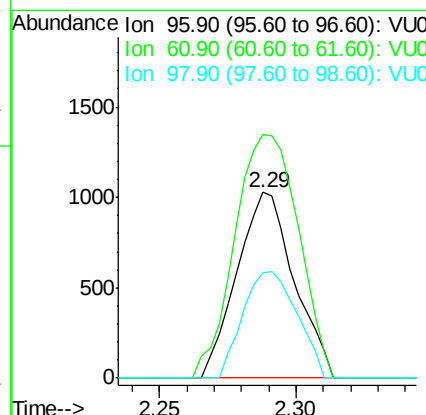
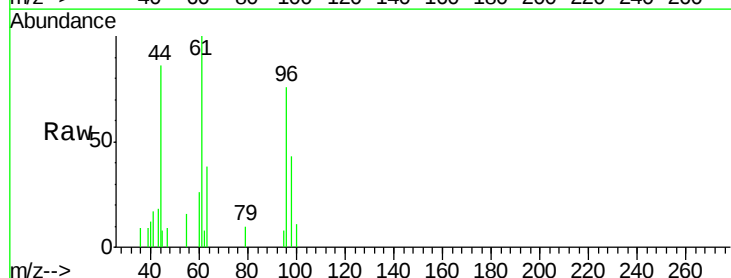
Tgt Ion: 59 Resp: 3632
 Ion Ratio Lower Upper
 59 100
 57 1.7 8.5 12.7#

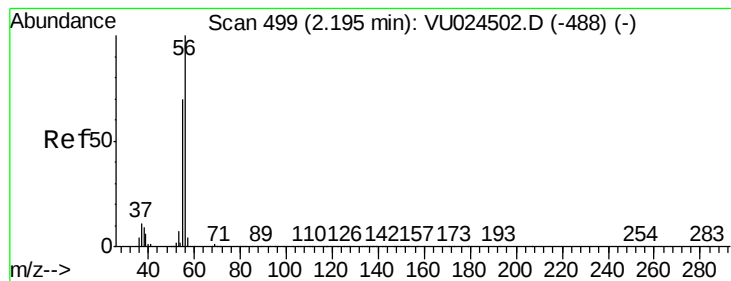


#12

1,1-Dichloroethene
 Concen: 0.663 ug/l
 RT: 2.29 min Scan# 528
 Delta R.T. 0.00 min
 Lab File: VU024784.D
 Acq: 21 Jun 2018 02:50

Tgt Ion: 96 Resp: 1495
 Ion Ratio Lower Upper
 96 100
 61 130.9 141.7 212.5#
 98 56.5 51.6 77.4





#13

Acrolein

Concen: 0.569 ug/l

RT: 2.20 min Scan# 502

Delta R.T. 0.01 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

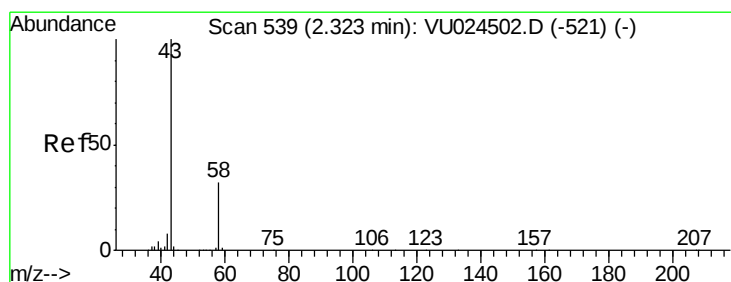
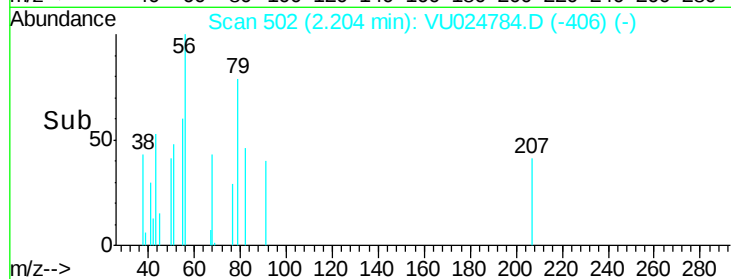
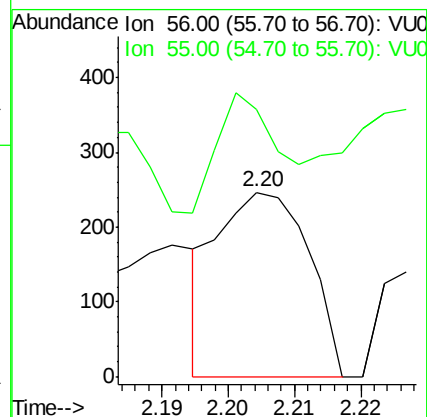
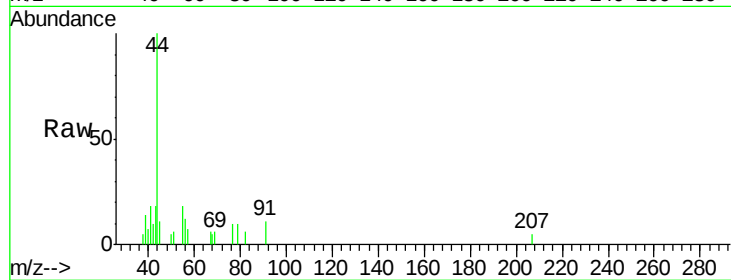
CKMW02

Tgt Ion: 56 Resp: 235

Ion Ratio Lower Upper

56 100

55 43.8 58.4 87.6#



#16

Acetone

Concen: 1.439 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024784.D

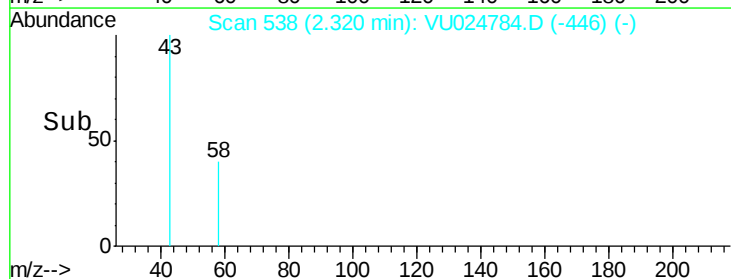
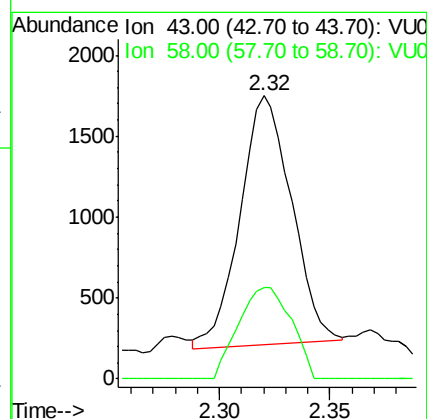
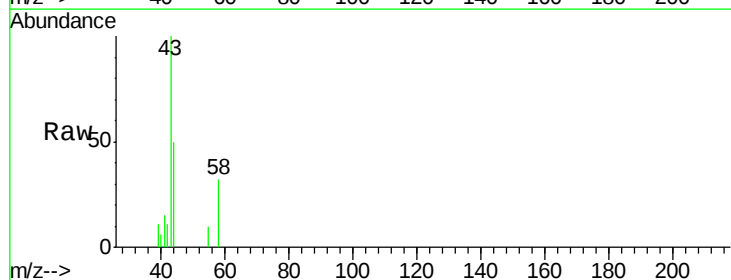
Acq: 21 Jun 2018 02:50

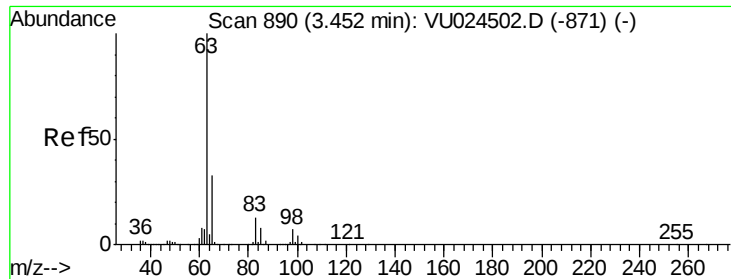
Tgt Ion: 43 Resp: 2498

Ion Ratio Lower Upper

43 100

58 37.5 24.4 36.6#





#24

1,1-Dichloroethane

Concen: 6.426 ug/l

RT: 3.45 min Scan# 889

Delta R.T. -0.00 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

CKMW02

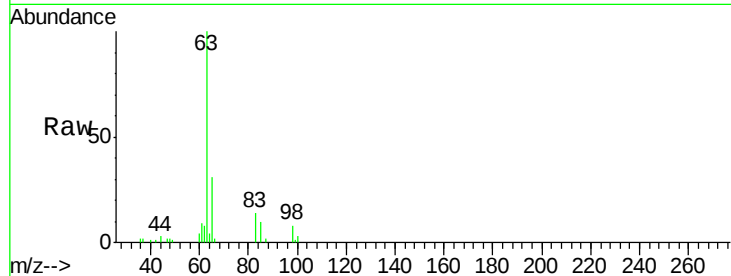
Tgt Ion: 63 Resp: 30670

Ion Ratio Lower Upper

63 100

98 7.7 3.5 10.4

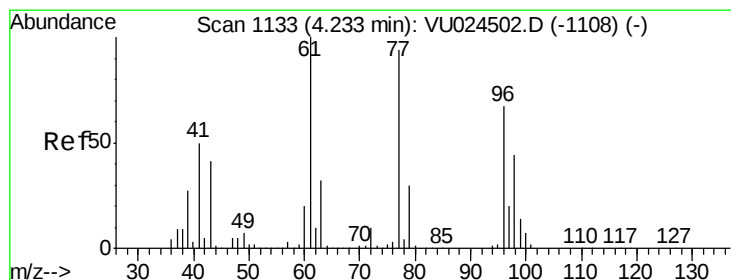
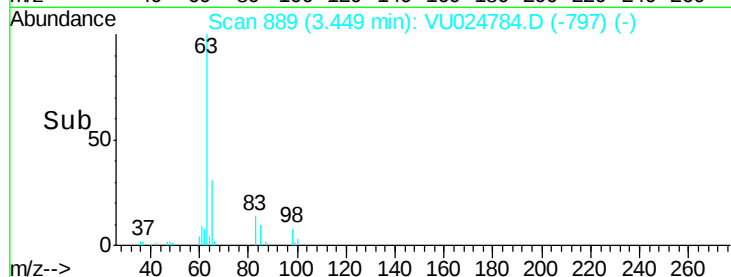
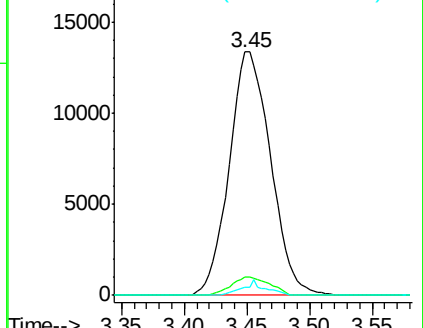
100 3.3 1.8 5.5



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0



#26

2,2-Dichloropropane

Concen: 0.240 ug/l

RT: 4.19 min Scan# 1119

Delta R.T. -0.04 min

Lab File: VU024784.D

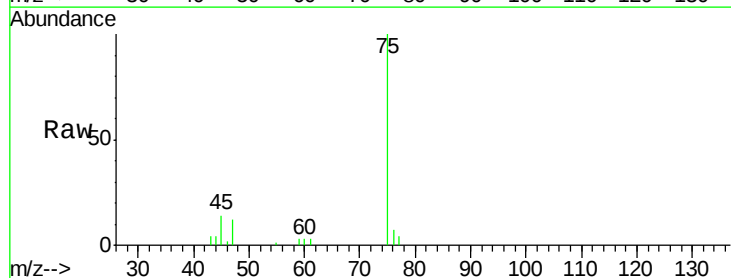
Acq: 21 Jun 2018 02:50

Tgt Ion: 77 Resp: 1089

Ion Ratio Lower Upper

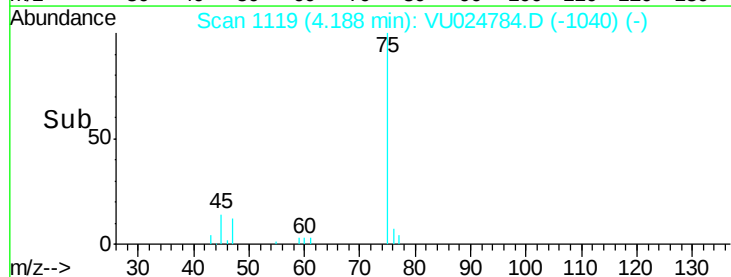
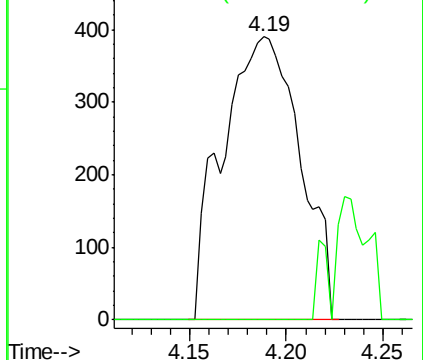
77 100

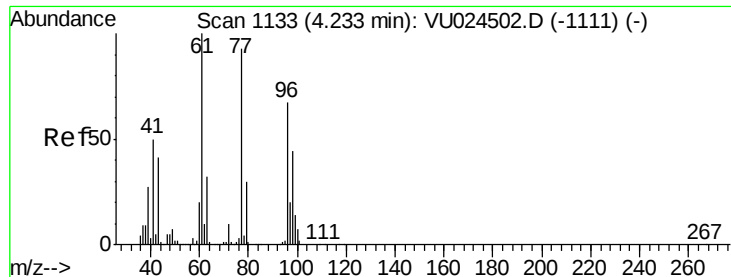
97 0.0 11.3 33.8#



Abundance Ion 76.90 (76.60 to 77.60): VU0

Ion 96.90 (96.60 to 97.60): VU0





#27

cis-1,2-Dichloroethene

Concen: 2.443 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

CKMW02

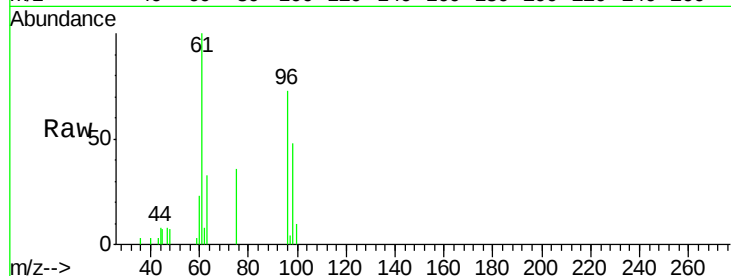
Tgt Ion: 96 Resp: 6973

Ion Ratio Lower Upper

96 100

61 139.0 0.0 306.6

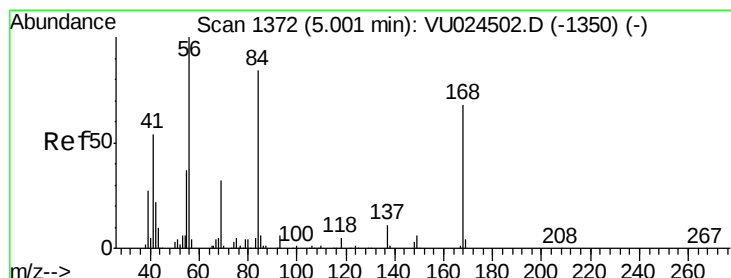
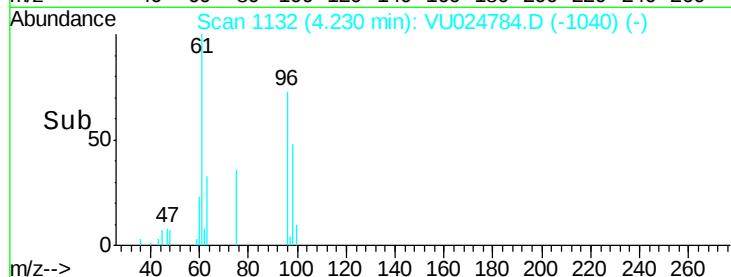
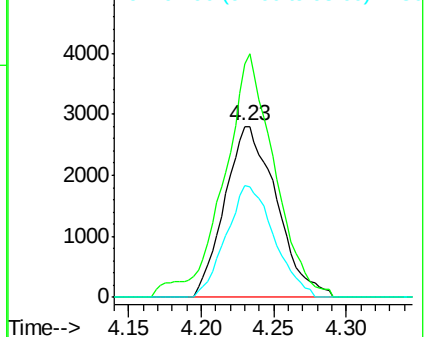
98 60.2 0.0 128.8



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# 1367

Delta R.T. -0.02 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

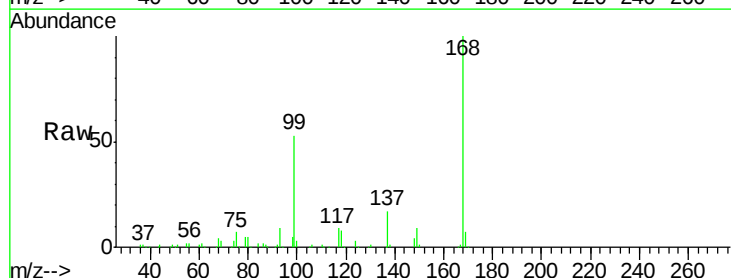
Tgt Ion: 56 Resp: 3739

Ion Ratio Lower Upper

56 100

69 130.0 24.8 37.2#

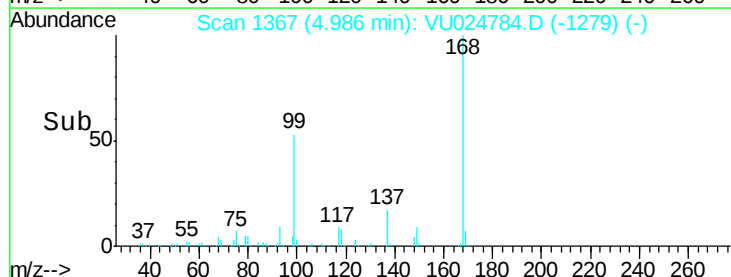
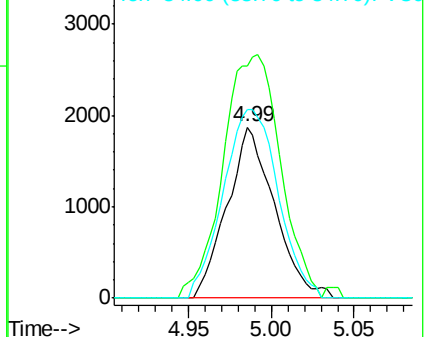
84 110.5 65.2 97.8#

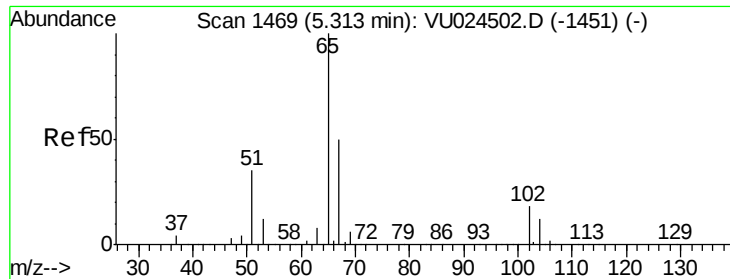


Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 69.00 (68.70 to 69.70): VU0

Ion 84.00 (83.70 to 84.70): VU0

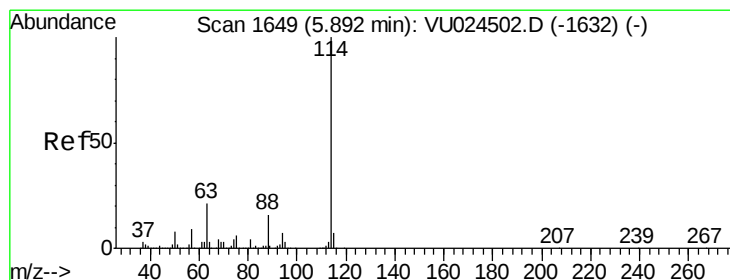
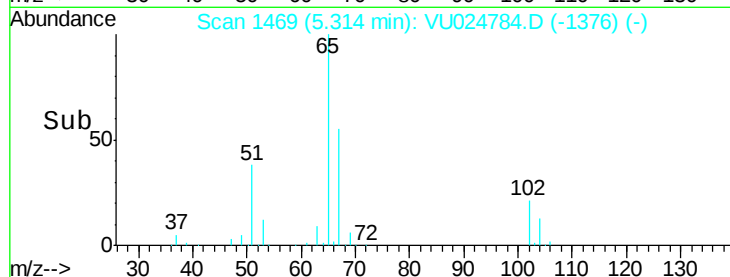
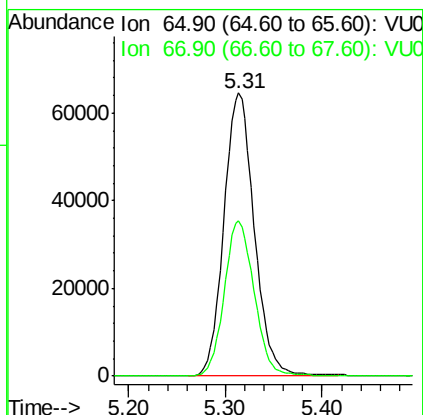
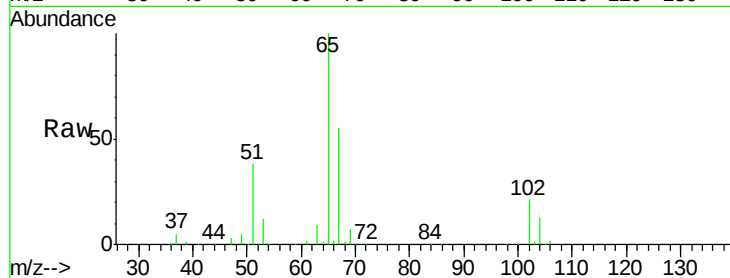




#33
 1,2-Dichloroethane-d4
 Concen: 43.578 ug/l
 RT: 5.31 min Scan# 1469
 Delta R.T. 0.00 min
 Lab File: VU024784.D
 Acq: 21 Jun 2018 02:50

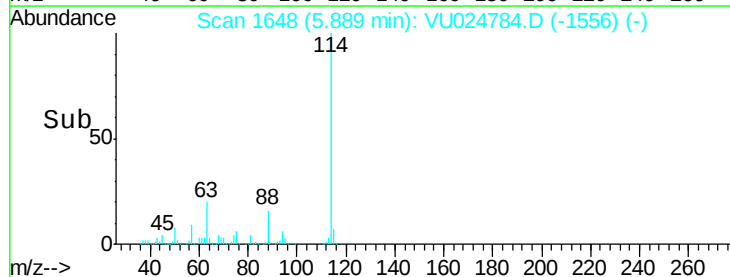
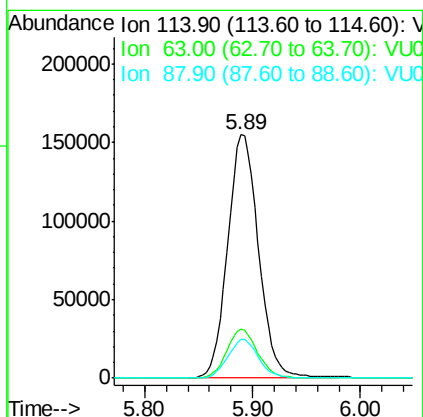
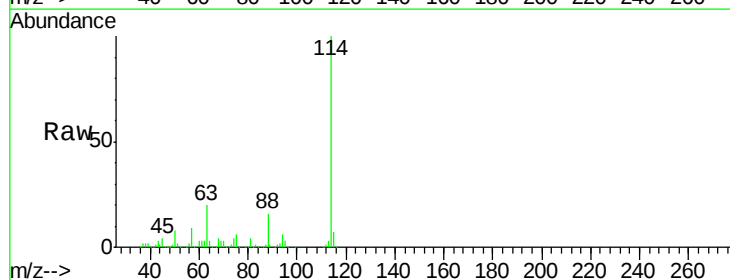
Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW02

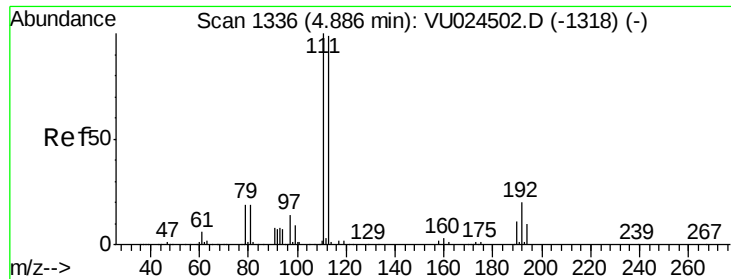
Tgt Ion: 65 Resp: 140838
 Ion Ratio Lower Upper
 65 100
 67 54.0 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.89 min Scan# 1648
 Delta R.T. -0.00 min
 Lab File: VU024784.D
 Acq: 21 Jun 2018 02:50

Tgt Ion: 114 Resp: 310098
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 45.4
 88 15.7 0.0 31.0

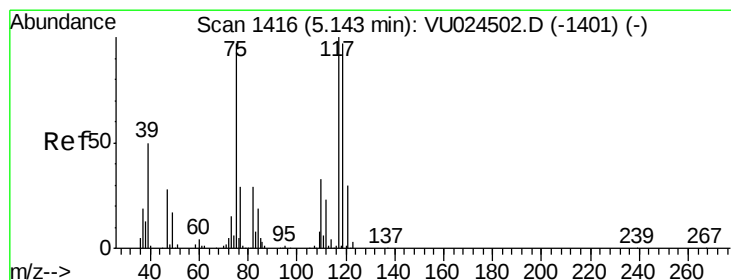
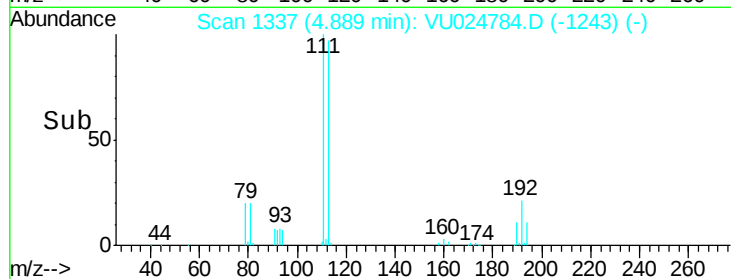
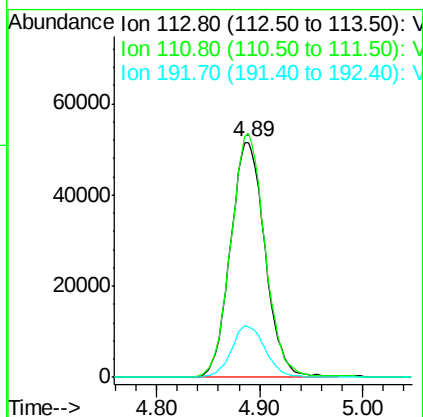
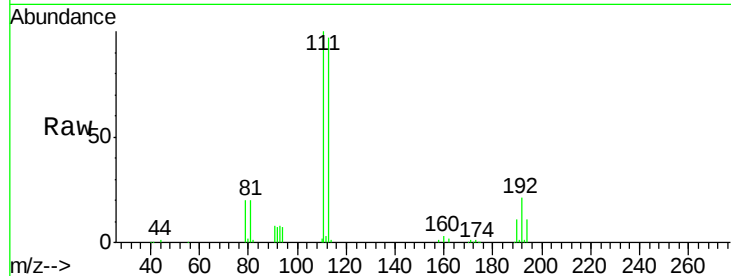




#35
 Dibromofluoromethane
 Concen: 46.817 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU024784.D
 Acq: 21 Jun 2018 02:50

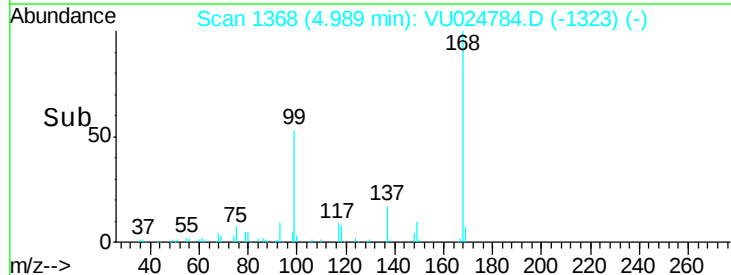
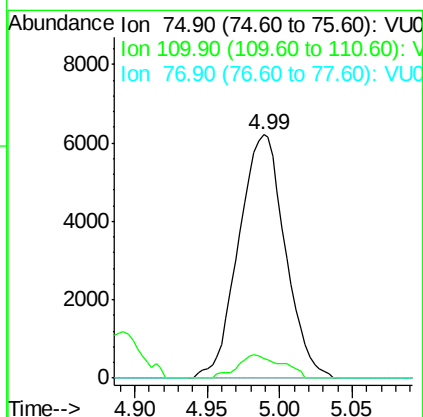
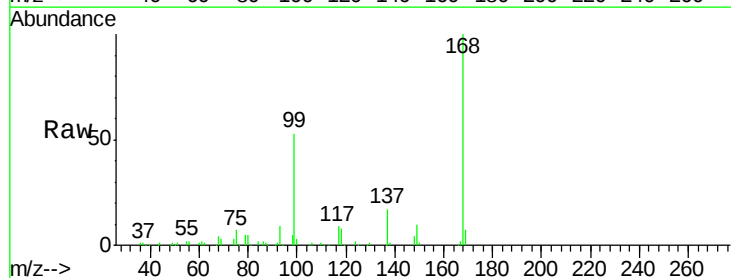
Instrument :
 MSVOA_U
 ClientSampleId :
 CKMW02

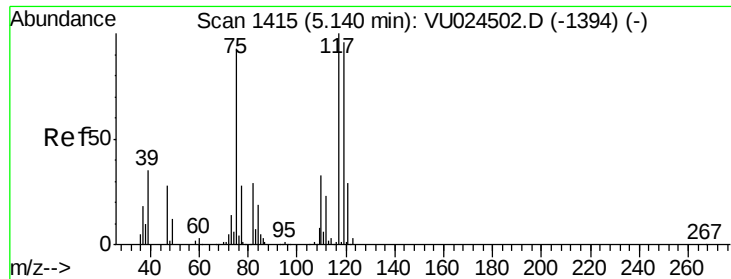
Tgt Ion:113 Resp: 120488
 Ion Ratio Lower Upper
 113 100
 111 101.7 82.2 123.4
 192 21.4 16.2 24.4



#36
 1,1-Dichloropropene
 Concen: 3.799 ug/l
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.15 min
 Lab File: VU024784.D
 Acq: 21 Jun 2018 02:50

Tgt Ion: 75 Resp: 13844
 Ion Ratio Lower Upper
 75 100
 110 9.2 17.0 50.9#
 77 0.0 24.2 36.4#





#38

Carbon Tetrachloride

Concen: 4.555 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

CKMW02

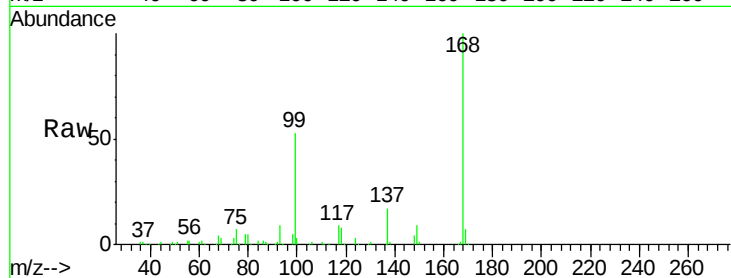
Tgt Ion:117 Resp: 18253

Ion Ratio Lower Upper

117 100

119 5.3 76.1 114.1#

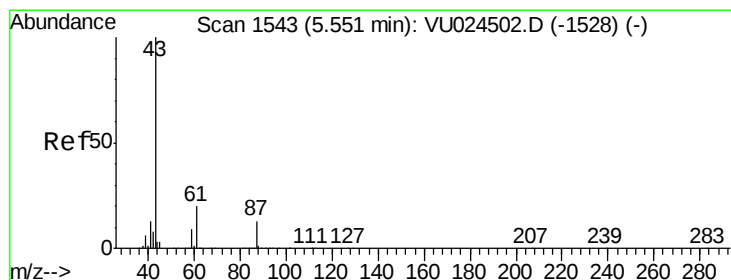
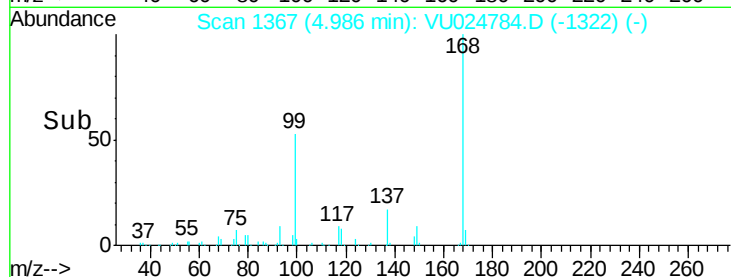
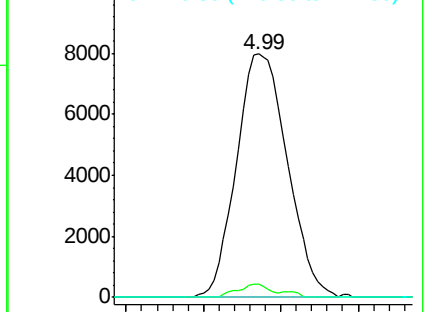
121 0.0 23.7 35.5#



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



#43

Isopropyl Acetate

Concen: 2.391 ug/l

RT: 5.81 min Scan# 1622

Delta R.T. 0.25 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

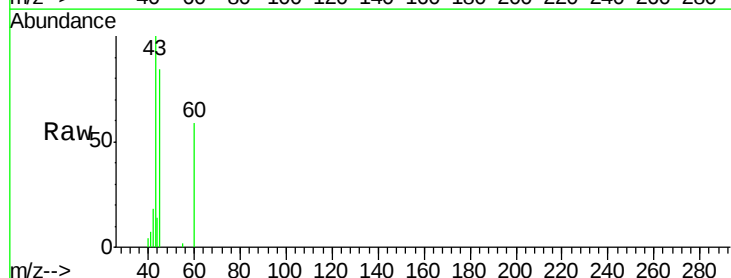
Tgt Ion: 43 Resp: 16416

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

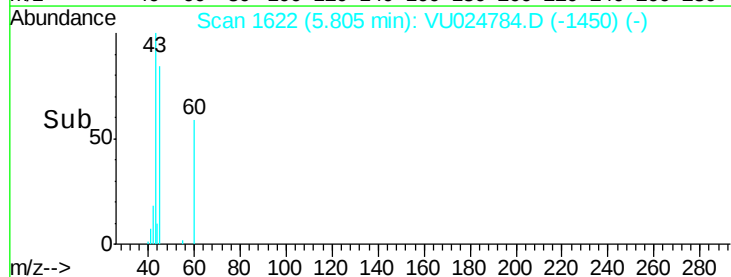
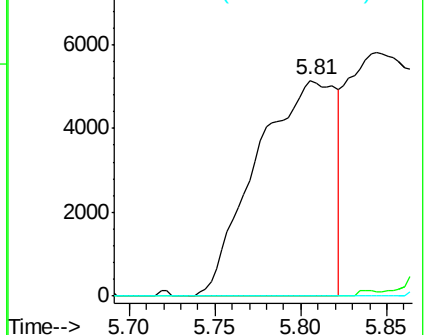
87 0.0 10.0 15.0#

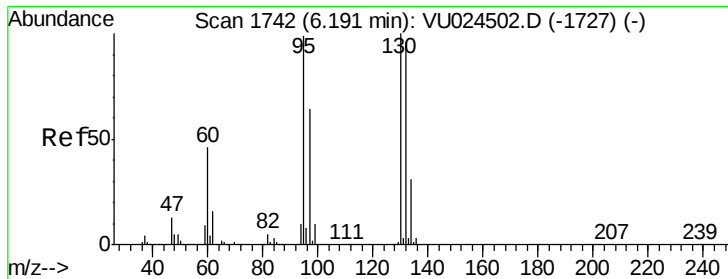


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#44

Trichloroethene

Concen: 0.913 ug/l

RT: 6.19 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

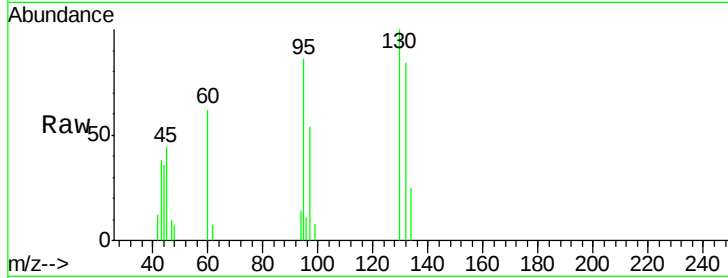
CKMW02

Tgt Ion:130 Resp: 2699

Ion Ratio Lower Upper

130 100

95 86.2 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0

6.19

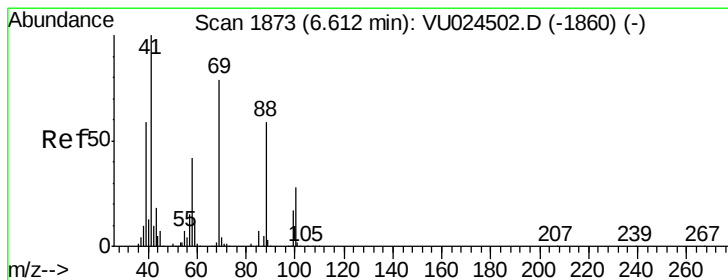
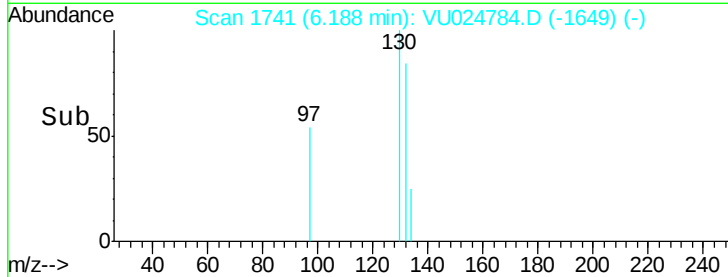
1500

1000

500

0

Time-->



#49

1,4-Dioxane

Concen: 0.306 ug/l

RT: 6.63 min Scan# 1879

Delta R.T. 0.02 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

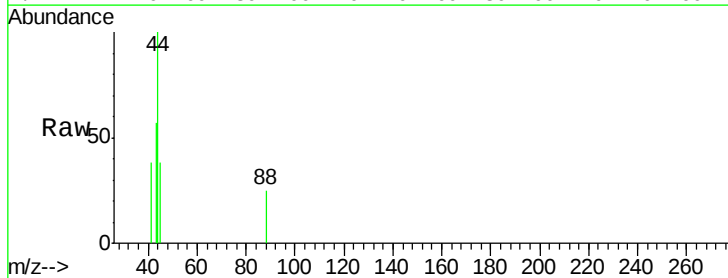
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 1150.0 28.6 42.8#

58 0.0 58.2 87.4#



Abundance Ion 88.00 (87.70 to 88.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

400

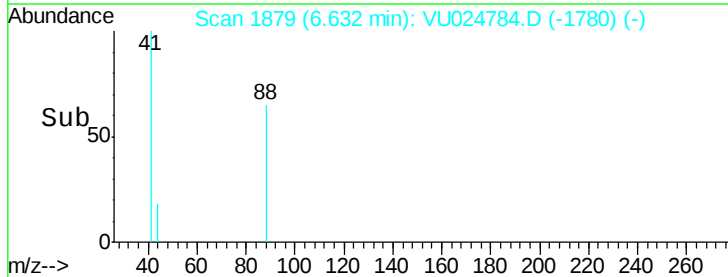
300

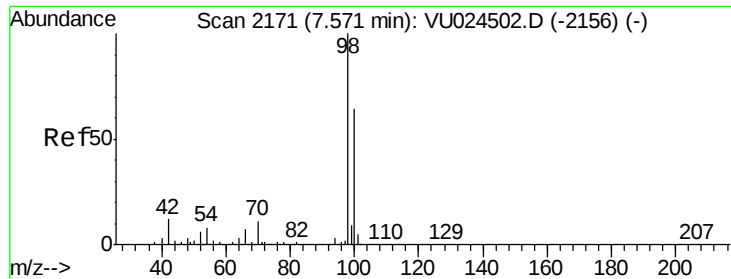
200

100

0

Time-->

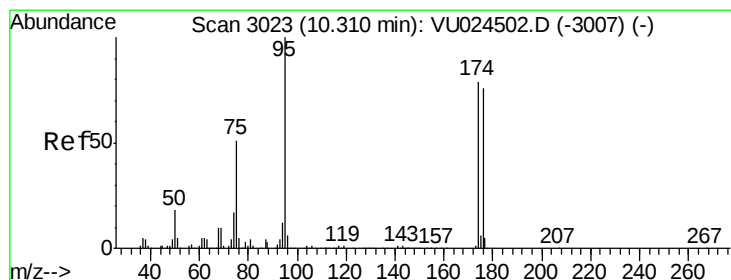
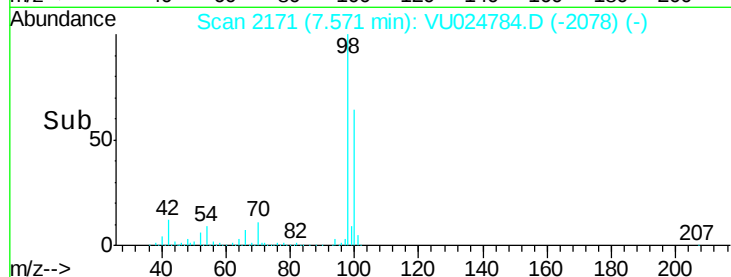
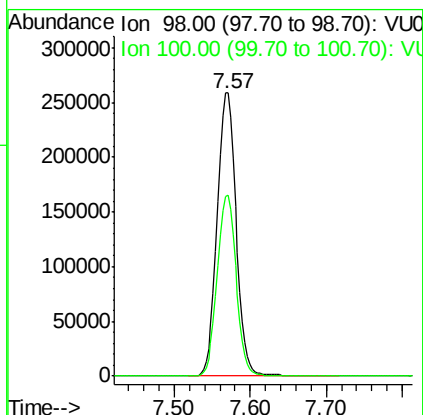
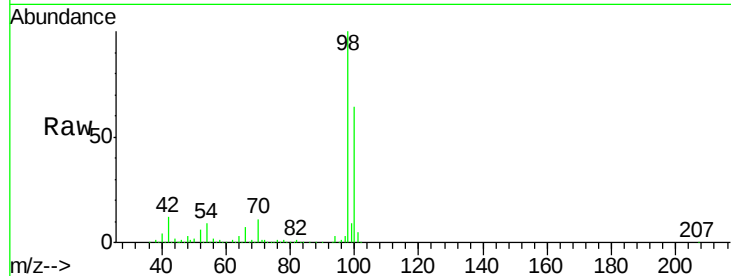




#50
Toluene-d8
Concen: 47.913 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU024784.D
Acq: 21 Jun 2018 02:50

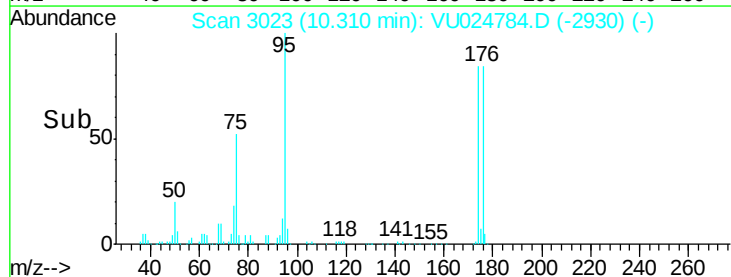
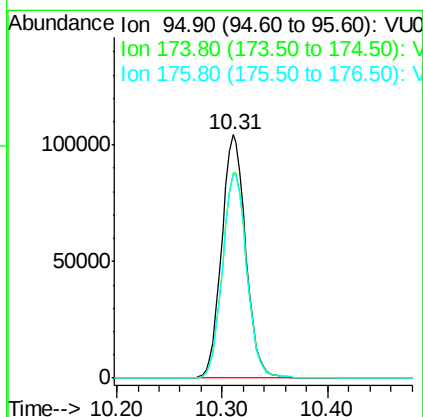
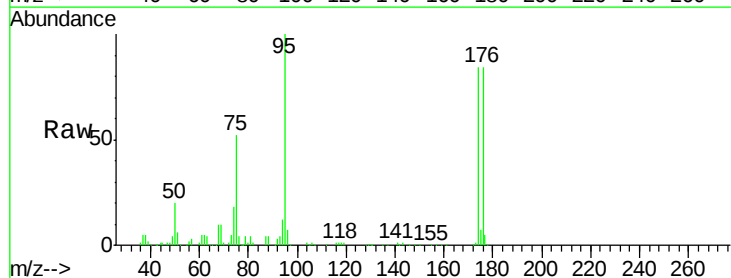
Instrument :
MSVOA_U
ClientSampleId :
CKMW02

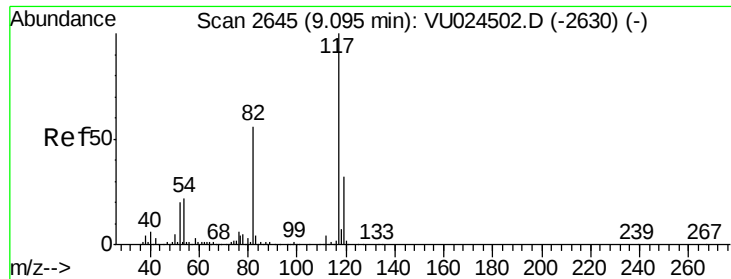
Tgt Ion: 98 Resp: 449780
Ion Ratio Lower Upper
98 100
100 63.9 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 44.204 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024784.D
Acq: 21 Jun 2018 02:50

Tgt Ion: 95 Resp: 164755
Ion Ratio Lower Upper
95 100
174 85.3 0.0 165.8
176 85.1 0.0 159.4

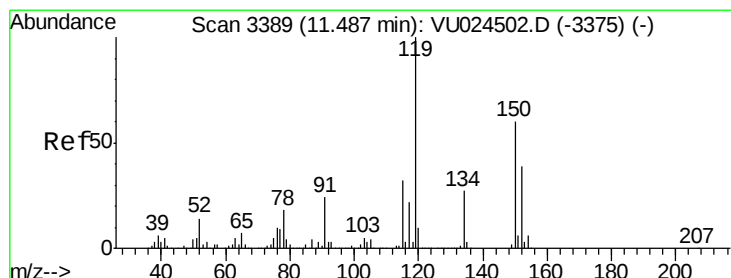
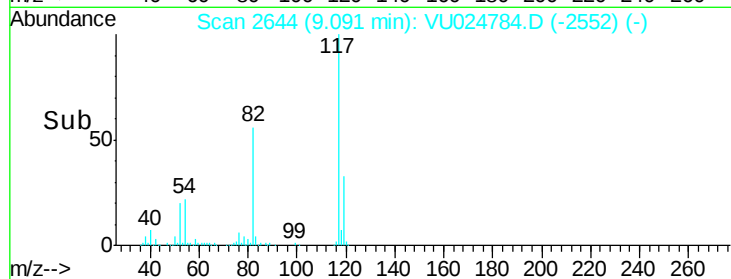
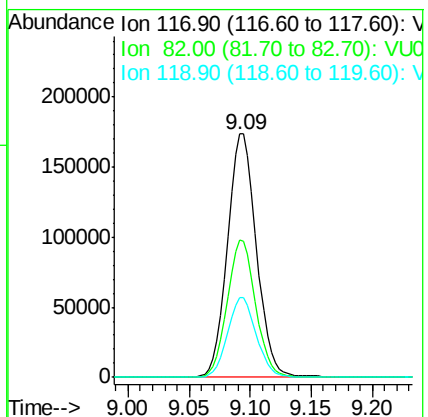
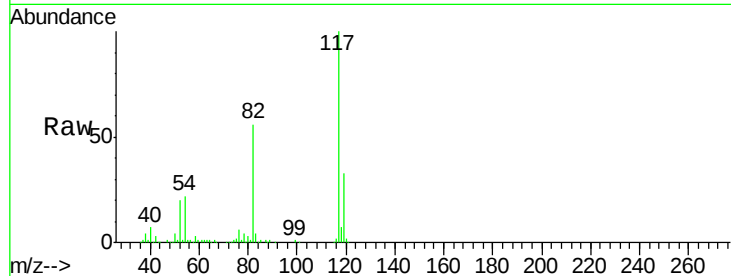




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024784.D
Acq: 21 Jun 2018 02:50

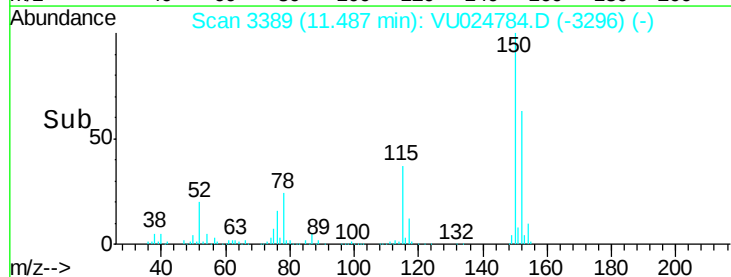
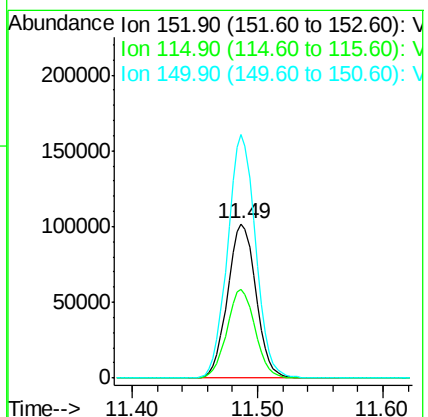
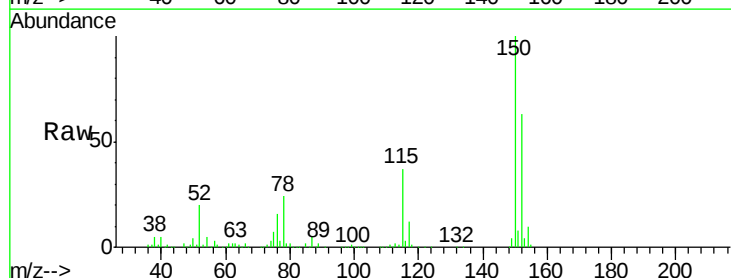
Instrument :
MSVOA_U
ClientSampleId :
CKMW02

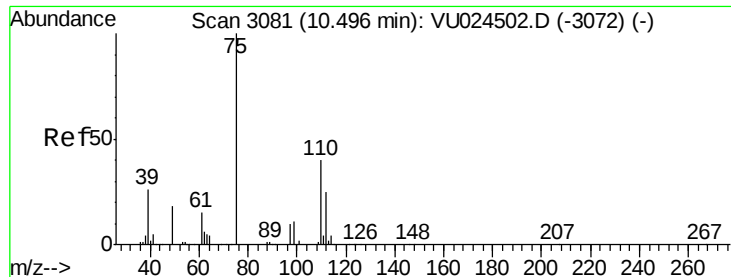
Tgt Ion:117 Resp: 289094
Ion Ratio Lower Upper
117 100
82 56.3 44.3 66.5
119 32.6 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.49 min Scan# 3389
Delta R.T. 0.00 min
Lab File: VU024784.D
Acq: 21 Jun 2018 02:50

Tgt Ion:152 Resp: 160199
Ion Ratio Lower Upper
152 100
115 57.2 43.0 129.0
150 155.6 0.0 354.0





#76

1,2,3-Trichloropropane

Concen: 24.361 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

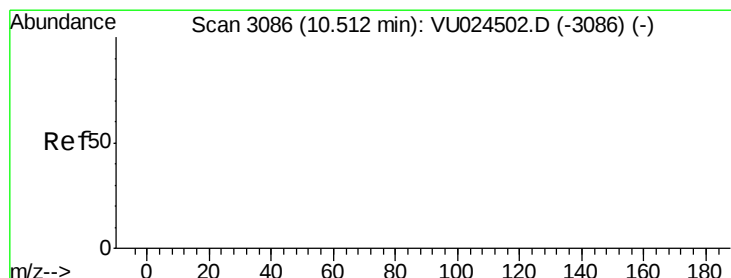
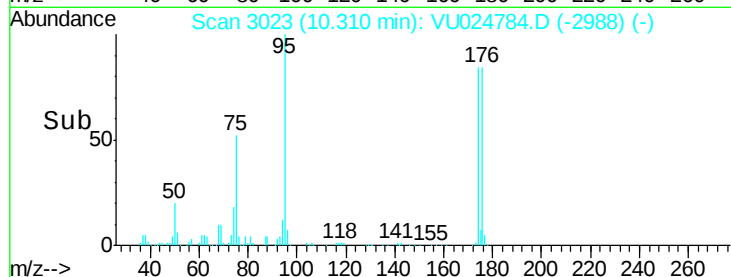
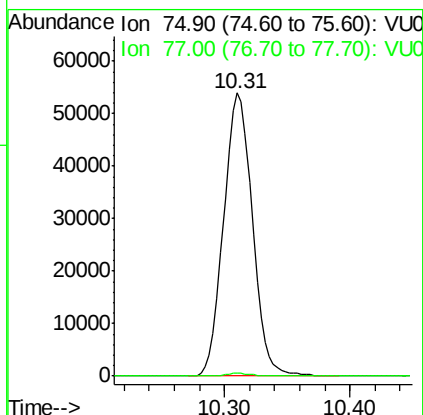
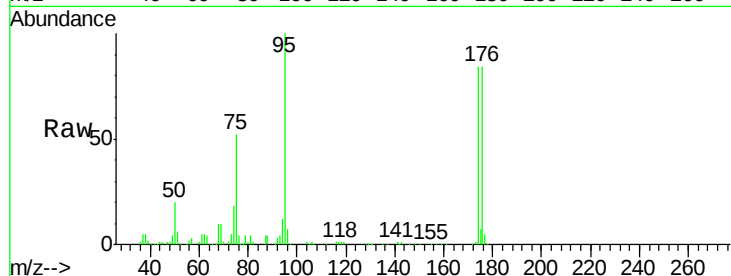
CKMW02

Tgt Ion: 75 Resp: 85922

Ion Ratio Lower Upper

75 100

77 0.8 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.382 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

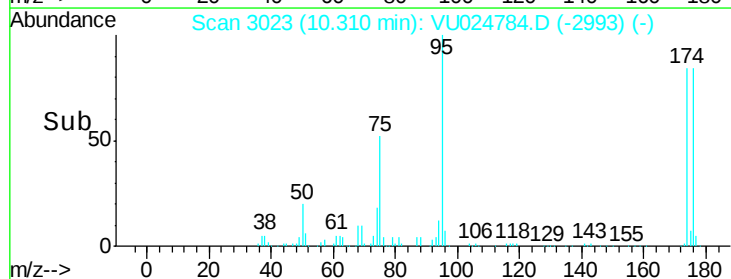
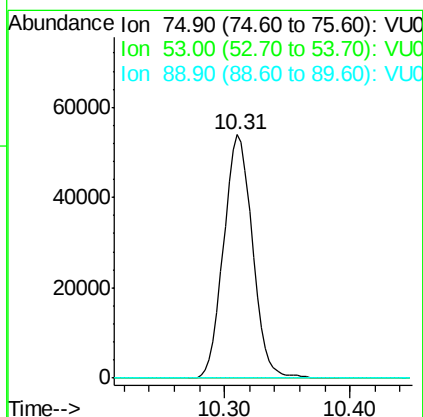
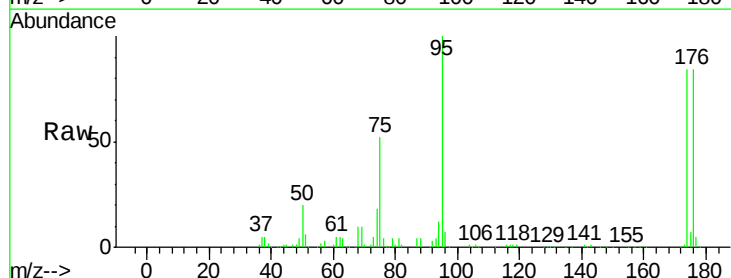
Tgt Ion: 75 Resp: 85922

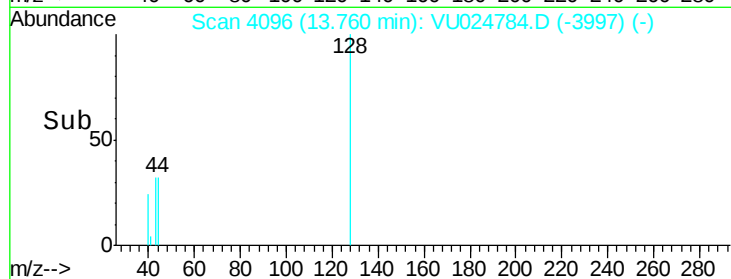
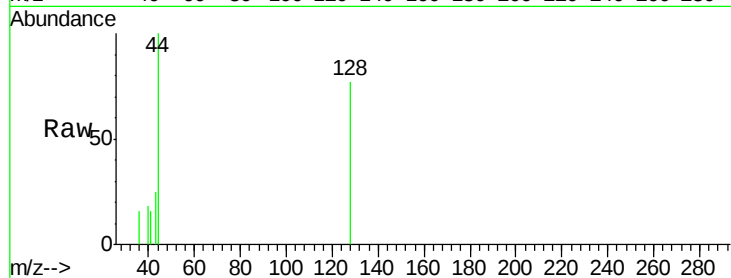
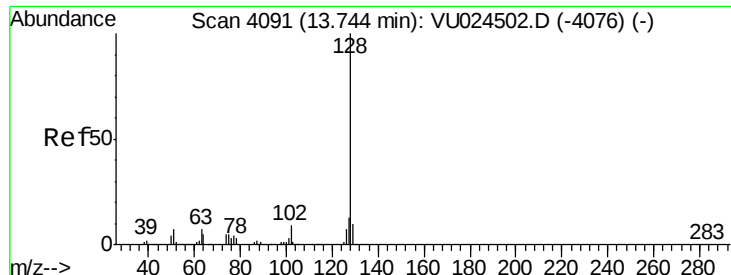
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0





#95

Naphthalene

Concen: 0.759 ug/l

RT: 13.76 min Scan# 4096

Delta R.T. 0.02 min

Lab File: VU024784.D

Acq: 21 Jun 2018 02:50

Instrument :

MSVOA_U

ClientSampleId :

CKMW02

Tgt Ion:128 Resp: 958

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#

