

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070518\
 Data File : VU025211.D
 Acq On : 05 Jul 2018 13:23
 Operator : MD/SY
 Sample : J3808-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 06 05:12:07 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	209538	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	311303	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	288477	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	144646	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	153496	44.87	ug/l	0.00
Spiked Amount			Recovery	=	89.74%	
35) Dibromofluoromethane	4.89	113	121347	46.97	ug/l	0.00
Spiked Amount			Recovery	=	93.94%	
50) Toluene-d8	7.57	98	445066	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
62) 4-Bromofluorobenzene	10.31	95	162207	43.35	ug/l	0.00
Spiked Amount			Recovery	=	86.70%	

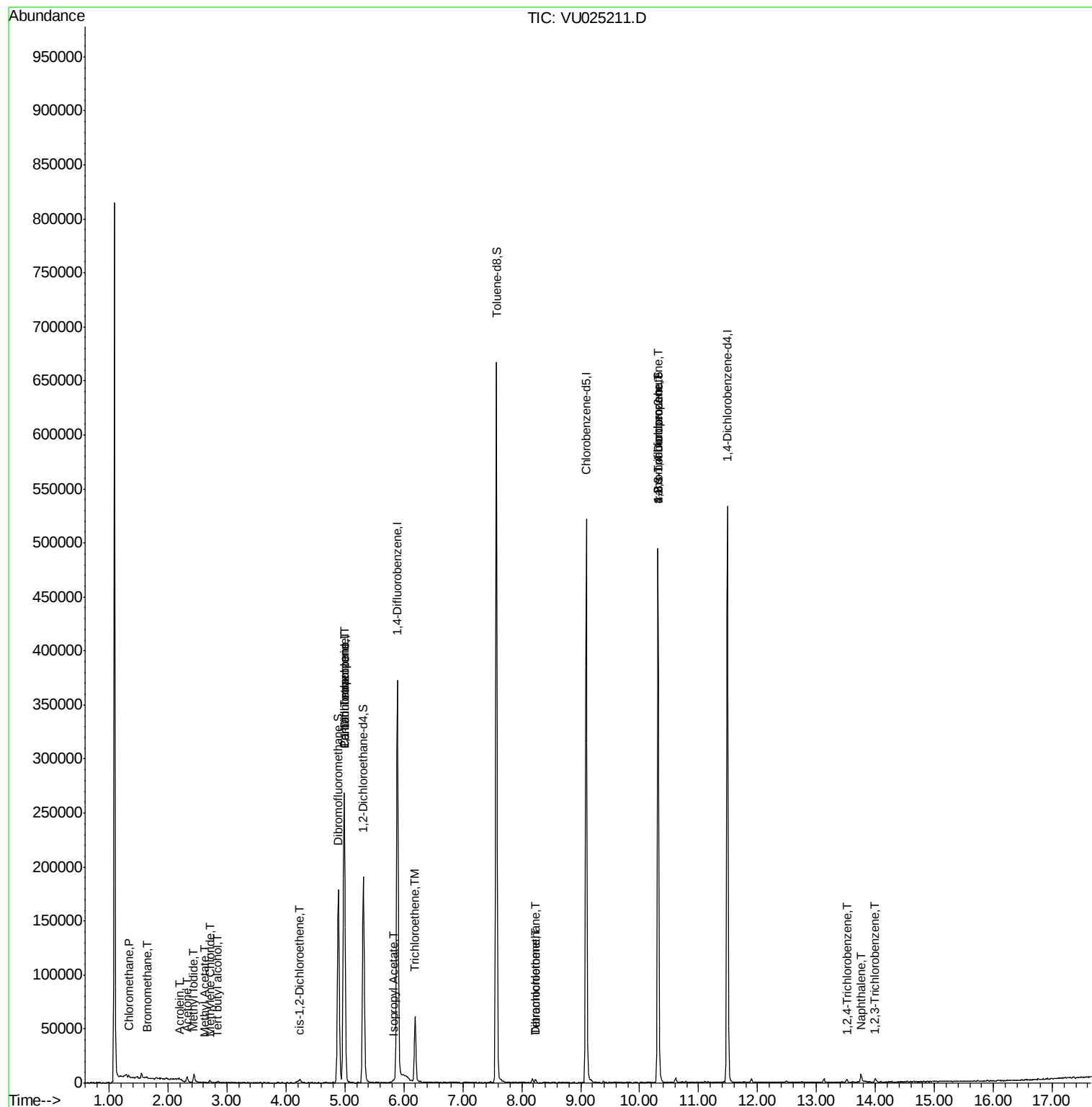
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1338	0.50	ug/l	96
5) Bromomethane	1.64	94	509	0.38	ug/l	98
6) Chloroethane	1.71	64	31	Below Cal	#	43
10) Methyl Iodide	2.42	142	510	5.49	ug/l	# 66
11) Tert butyl alcohol	2.83	59	561	0.67	ug/l	# 72
13) Acrolein	2.20	56	220	0.50	ug/l	# 82
16) Acetone	2.32	43	5146	2.80	ug/l	99
18) Methyl Acetate	2.63	43	814	0.21	ug/l	# 66
20) Methylene Chloride	2.71	84	846	0.29	ug/l	97
27) cis-1,2-Dichloroethene	4.24	96	1920	0.64	ug/l	78
31) Cyclohexane	4.99	56	4186	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	16042	4.39	ug/l	# 50
38) Carbon Tetrachloride	4.99	117	19697	4.90	ug/l	# 16
43) Isopropyl Acetate	5.81	43	1493	0.22	ug/l	# 62
44) Trichloroethene	6.19	130	21495	7.25	ug/l	93
60) Dibromochloromethane	8.23	129	708	0.21	ug/l	# 11
64) Tetrachloroethene	8.24	164	834	0.30	ug/l	# 66
76) 1,2,3-Trichloropropane	10.31	75	85188	26.75	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	10.31	75	85188	61.91	ug/l	# 100
93) 1,2,4-Trichlorobenzene	13.52	180	1081	0.34	ug/l	# 82
95) Naphthalene	13.75	128	8104	1.43	ug/l	96
96) 1,2,3-Trichlorobenzene	13.99	180	1630	0.51	ug/l	97

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260
QLast Update : Wed Jun 13 13:55:26 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: VU025211.D

Acq: 05 Jul 2018 13:23

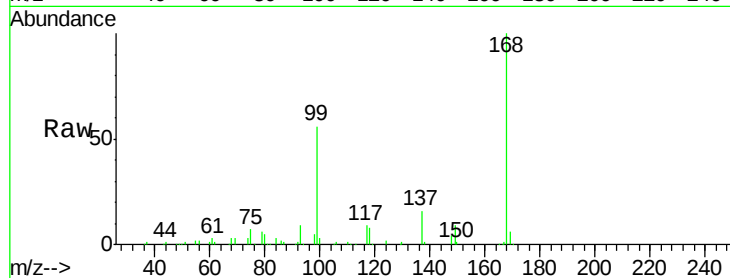
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 209538

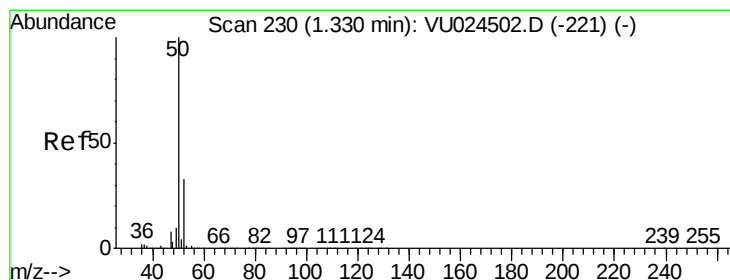
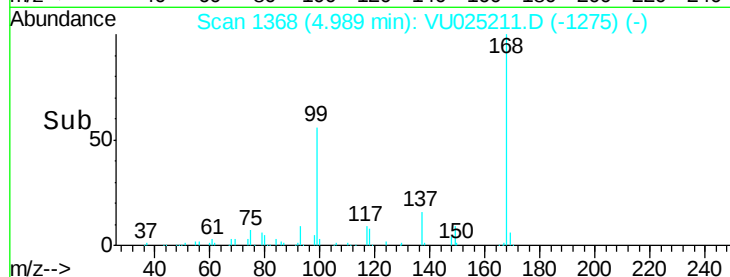
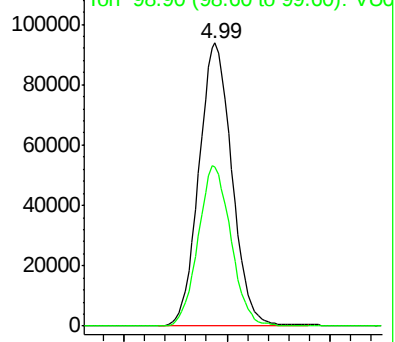
Ion Ratio Lower Upper

168 100

99 56.4 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU025211.D (-1275) (-)



#3

Chloromethane

Concen: 0.50 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU025211.D

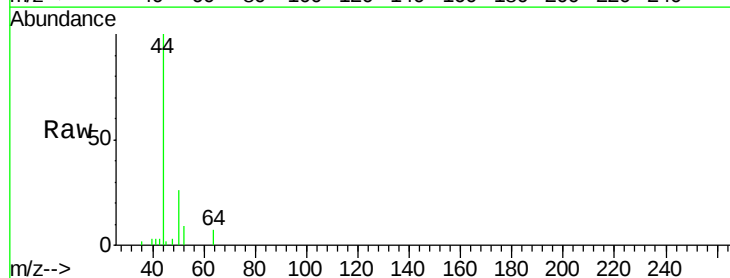
Acq: 05 Jul 2018 13:23

Tgt Ion: 50 Resp: 1338

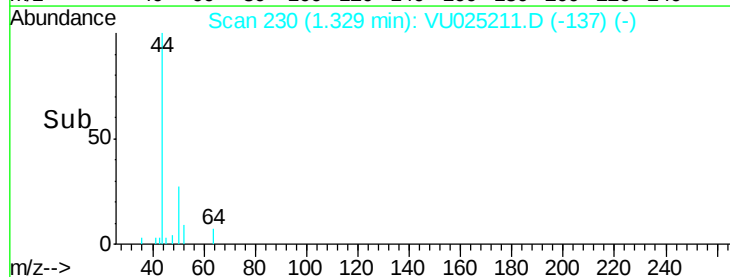
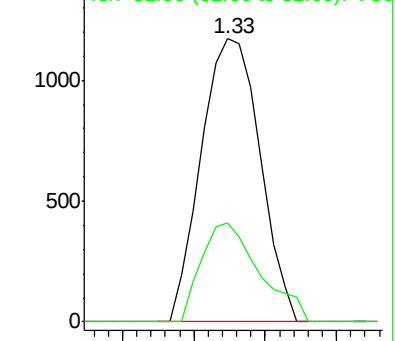
Ion Ratio Lower Upper

50 100

52 35.0 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VU025211.D (-137) (-)





#5

Bromomethane

Concen: 0.38 ug/l

RT: 1.64 min Scan# 327

Delta R.T. 0.02 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

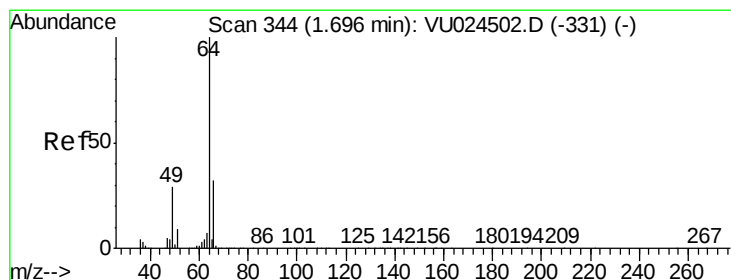
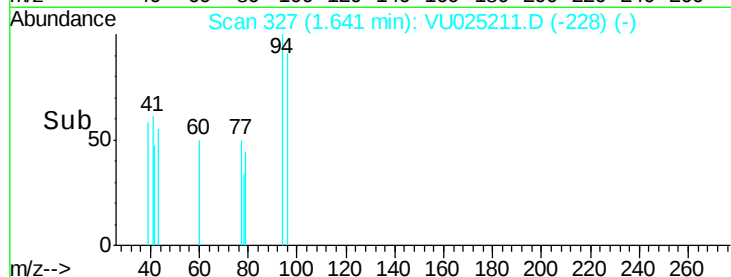
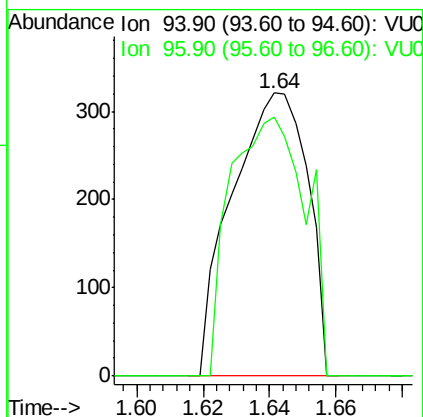
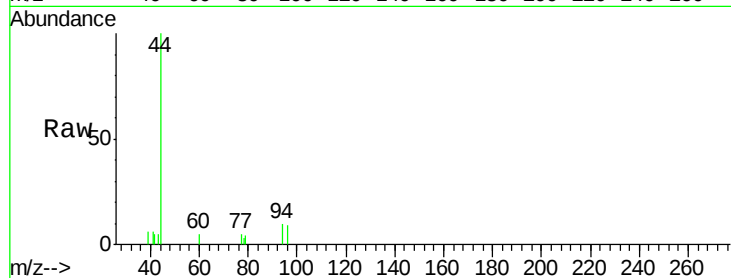
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 94 Resp: 509

Ion Ratio Lower Upper

94 100

96 91.3 74.5 111.7



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 347

Delta R.T. 0.01 min

Lab File: VU025211.D

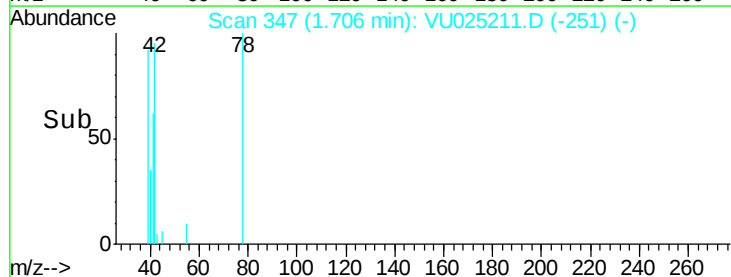
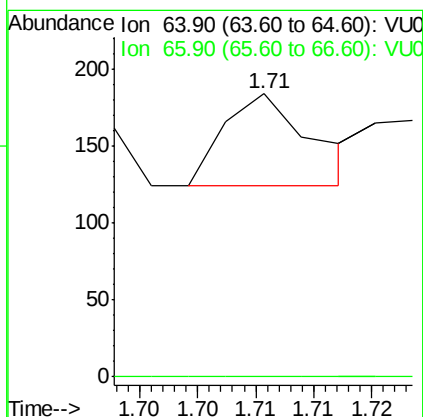
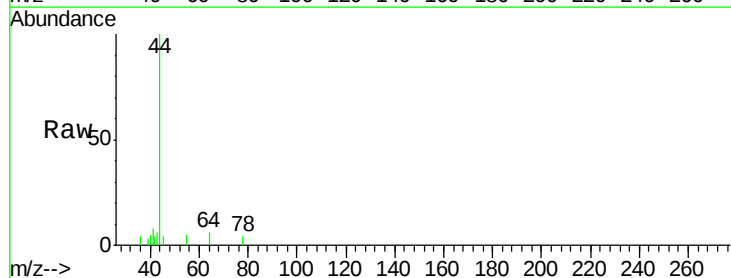
Acq: 05 Jul 2018 13:23

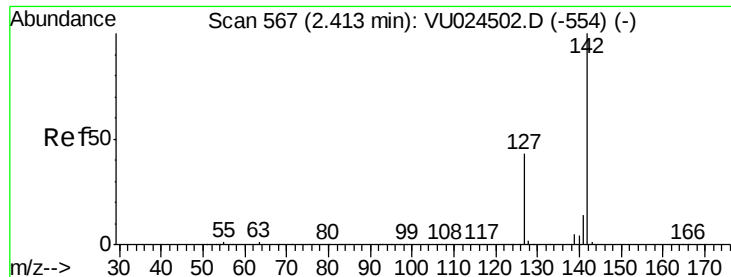
Tgt Ion: 64 Resp: 31

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#

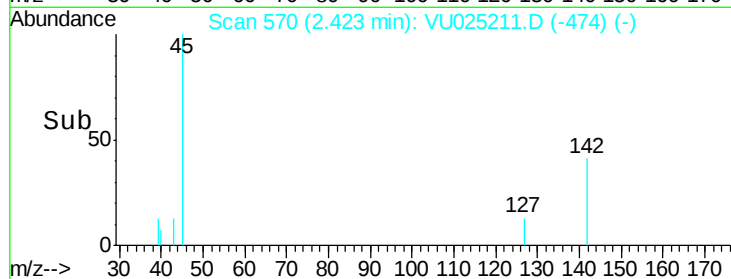
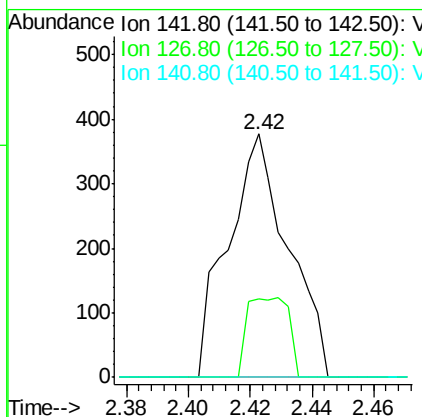
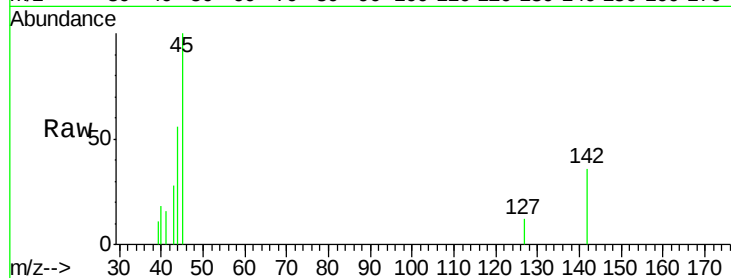




#10
Methvl Iodide
Concen: 5.49 ug/l
RT: 2.42 min Scan# 570
Delta R.T. 0.01 min
Lab File: VU025211.D
Acq: 05 Jul 2018 13:23

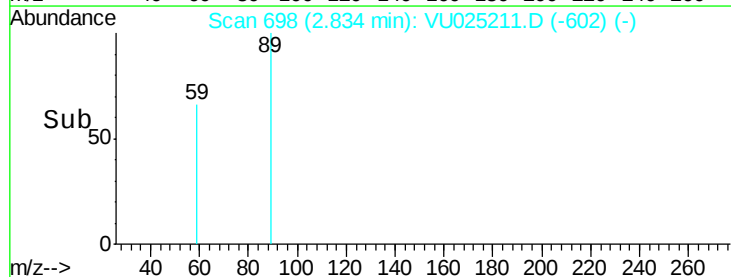
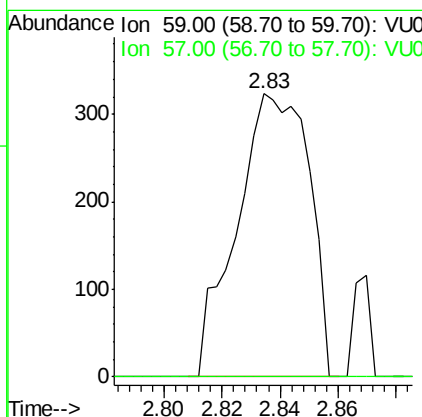
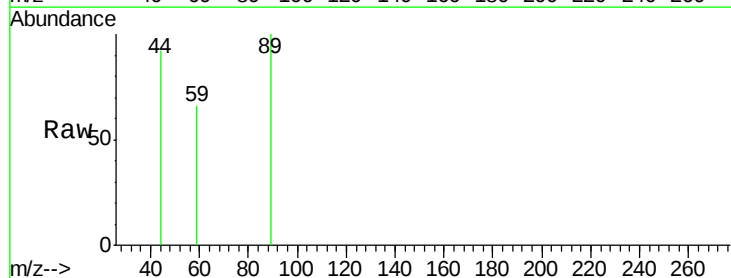
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
142	100		
127	22.4	35.6	53.4#
141	0.0	11.7	17.5#



#11
Tert butyl alcohol
Concen: 0.67 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU025211.D
Acq: 05 Jul 2018 13:23

Tgt Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.5	12.7#

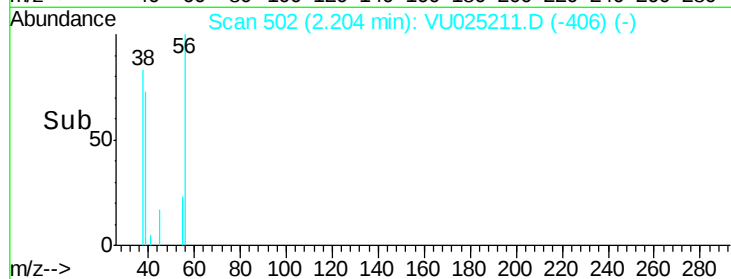
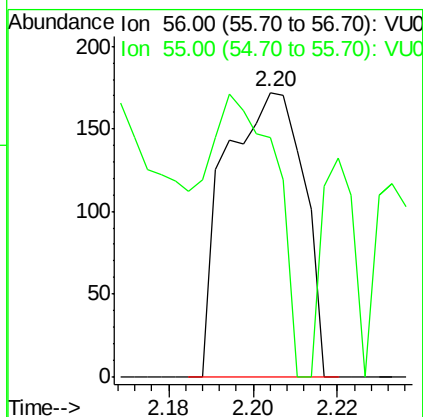
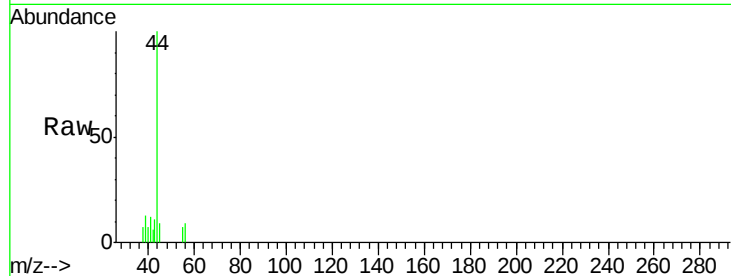




#13
Acrolein
Concen: 0.50 ug/l
RT: 2.20 min Scan# 502
Delta R.T. 0.01 min
Lab File: VU025211.D
Acq: 05 Jul 2018 13:23

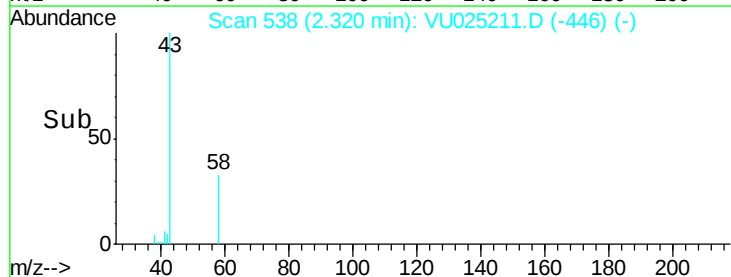
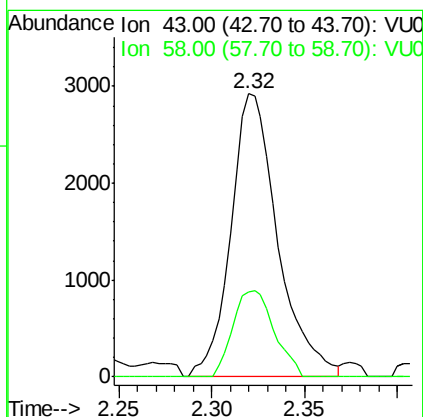
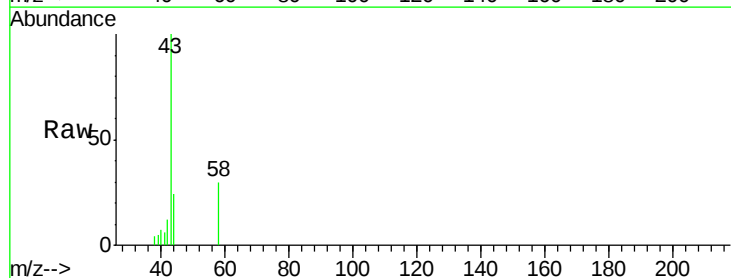
Instrument :
MSVOA_U
ClientSampleId :

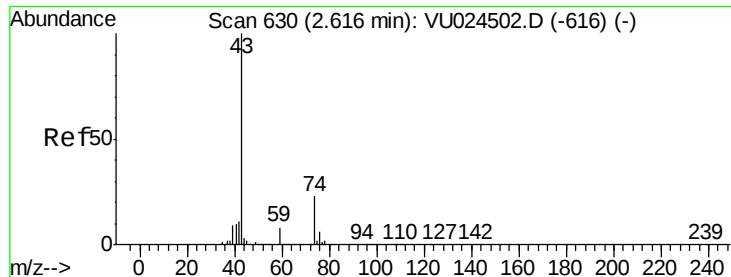
Tot Ion: 56 Resp: 220
Ion Ratio Lower Upper
56 100
55 88.2 58.4 87.6#



#16
Acetone
Concen: 2.80 ug/l
RT: 2.32 min Scan# 538
Delta R.T. -0.00 min
Lab File: VU025211.D
Acq: 05 Jul 2018 13:23

Tgt Ion: 43 Resp: 5146
Ion Ratio Lower Upper
43 100
58 29.8 24.4 36.6





#18

Methyl Acetate

Concen: 0.21 ug/l

RT: 2.63 min Scan# 633

Delta R.T. 0.01 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

Instrument :

MSVOA_U

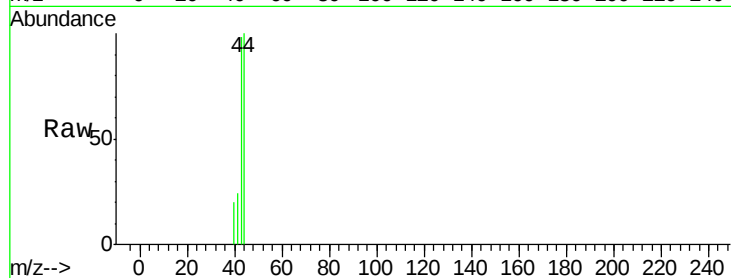
ClientSampled :

Tot Ion: 43 Resp: 814

Ion Ratio Lower Upper

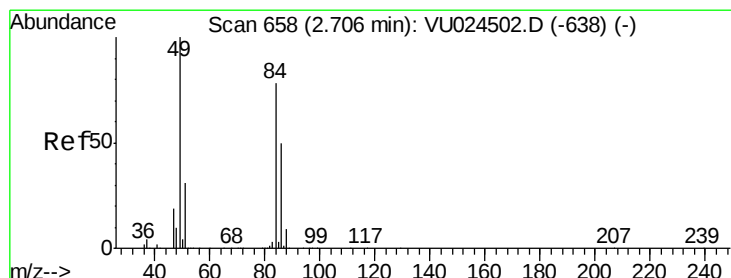
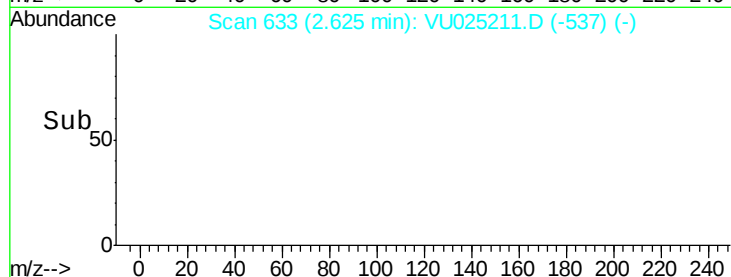
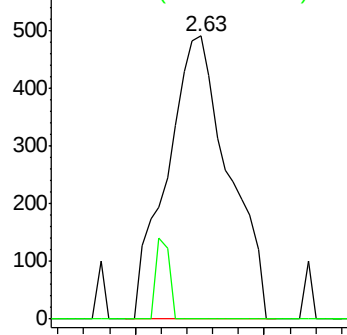
43 100

74 6.3 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0



#20

Methylene Chloride

Concen: 0.29 ug/l

RT: 2.71 min Scan# 658

Delta R.T. -0.00 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

Tgt Ion: 84 Resp: 846

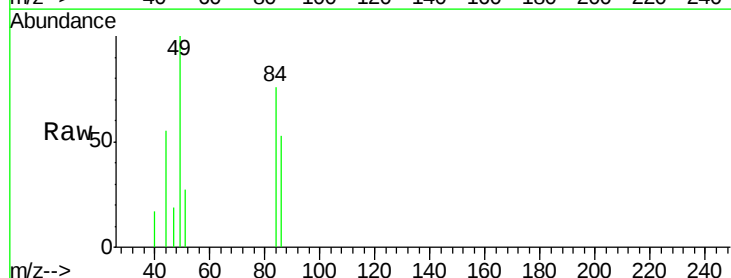
Ion Ratio Lower Upper

84 100

49 131.2 103.8 155.8

51 35.6 32.0 48.0

86 69.0 51.6 77.4

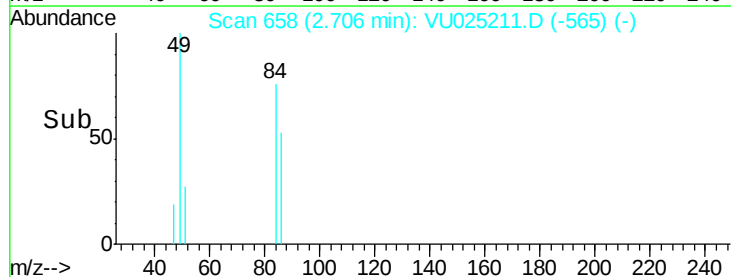
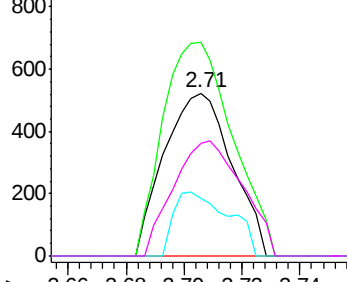


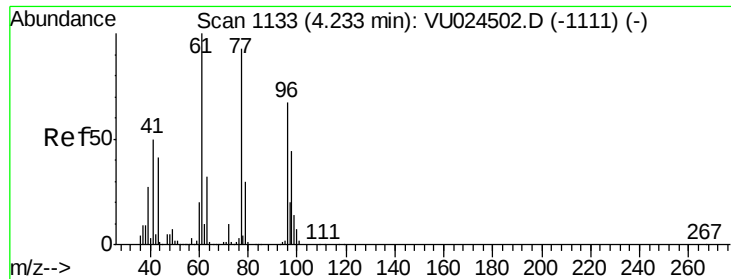
Abundance Ion 83.90 (83.60 to 84.60): VU0

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

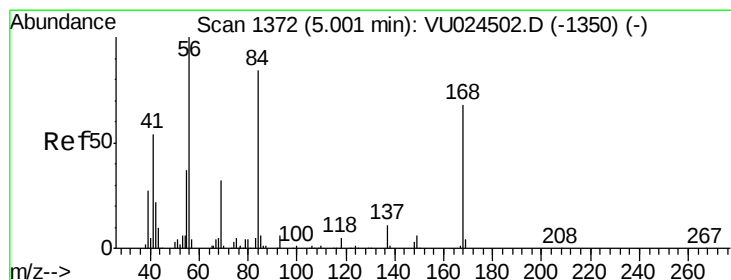
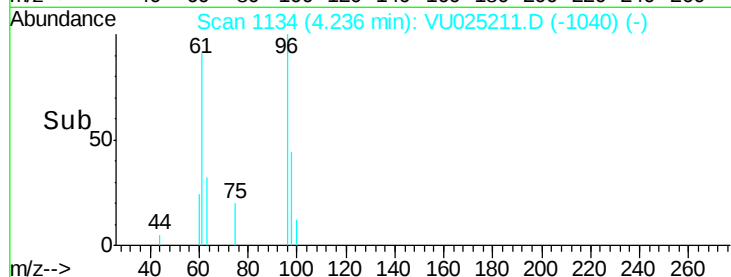
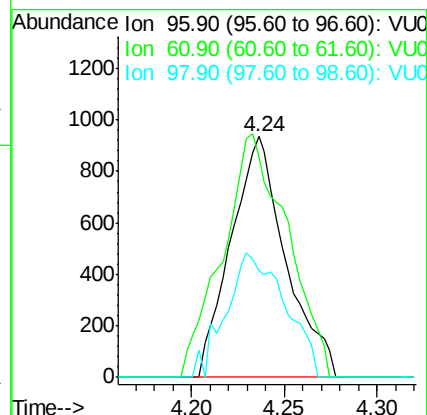
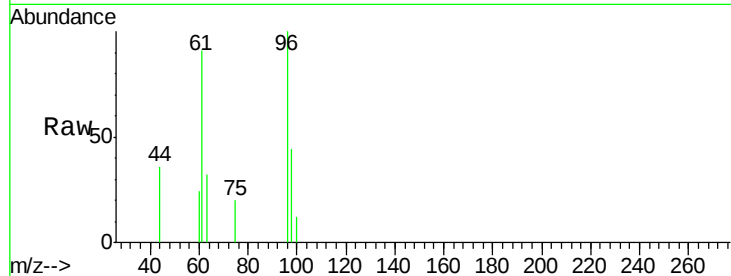




#27
 cis-1,2-Dichloroethene
 Concen: 0.64 ug/l
 RT: 4.24 min Scan# 1134
 Delta R.T. 0.00 min
 Lab File: VU025211.D
 Acq: 05 Jul 2018 13:23

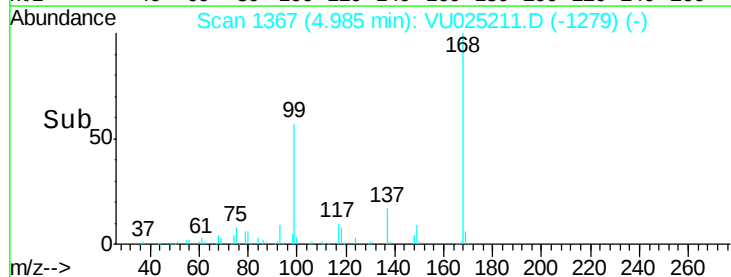
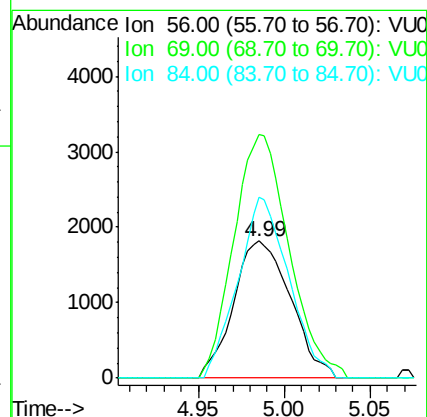
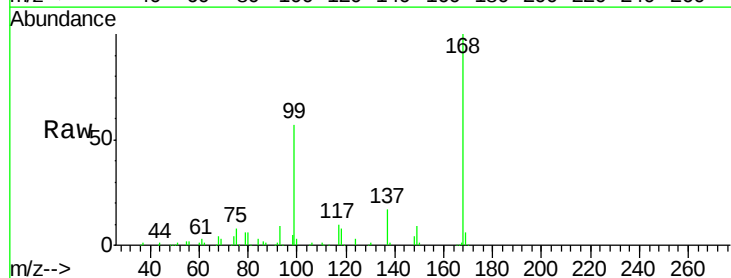
Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
96	100		
61	119.7	0.0	306.6
98	55.7	0.0	128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.02 min
 Lab File: VU025211.D
 Acq: 05 Jul 2018 13:23

Tgt Ion	Ratio	Lower	Upper
56	100		
69	178.0	24.8	37.2#
84	132.7	65.2	97.8#





#33

1,2-Dichloroethane-d4

Concen: 44.87 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

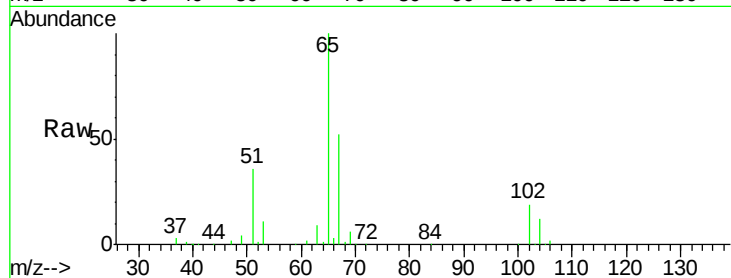
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 65 Resp: 153496

Ion Ratio Lower Upper

65 100

67 51.8 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU025211.D (-1376) (-)

Ion 66.90 (66.60 to 67.60): VU025211.D (-1376) (-)

5.31

80000

60000

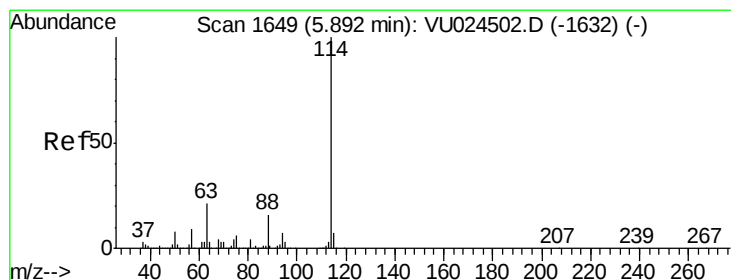
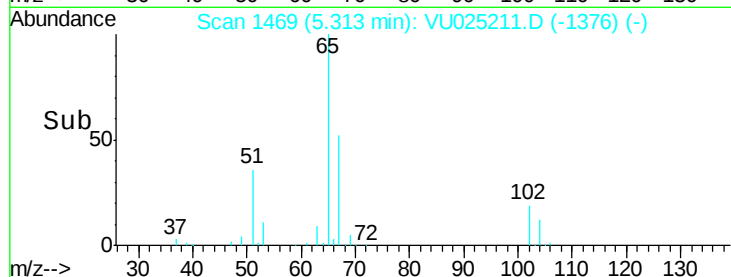
40000

20000

0

5.25 5.30 5.35 5.40

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1649

Delta R.T. -0.00 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

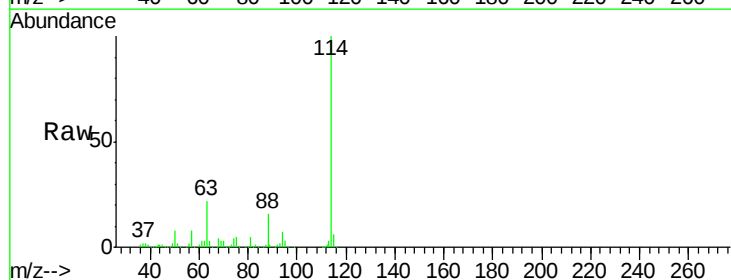
Tgt Ion: 114 Resp: 311303

Ion Ratio Lower Upper

114 100

63 21.6 0.0 45.4

88 16.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VU025211.D (-1556) (-)

Ion 63.00 (62.70 to 63.70): VU025211.D (-1556) (-)

Ion 87.90 (87.60 to 88.60): VU025211.D (-1556) (-)

5.89

200000

150000

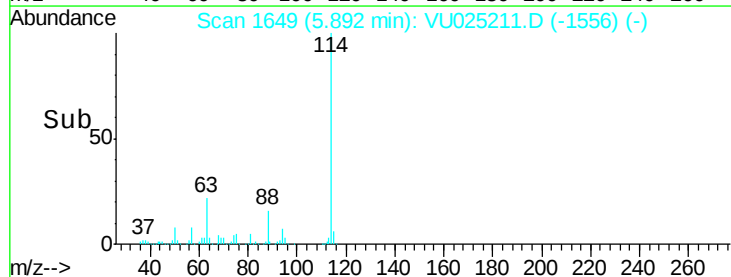
100000

50000

0

5.80 5.90 6.00

Time-->

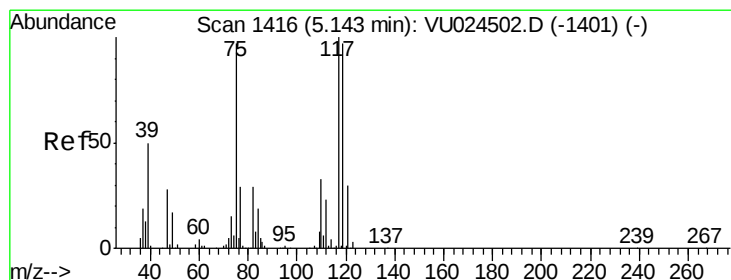
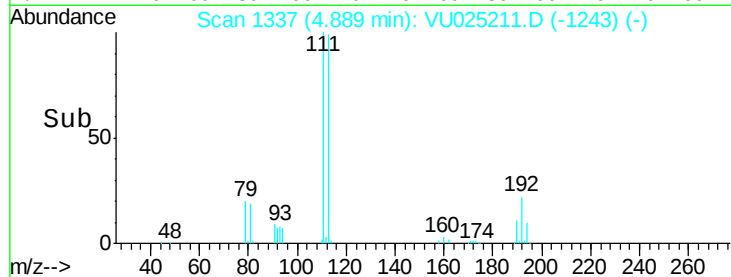
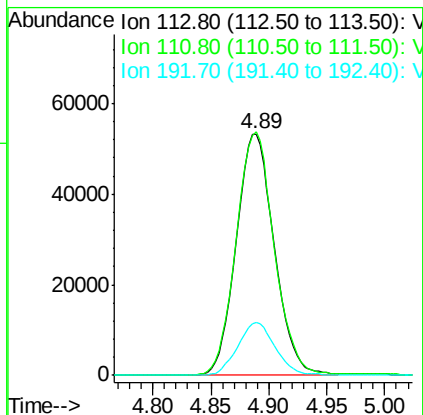
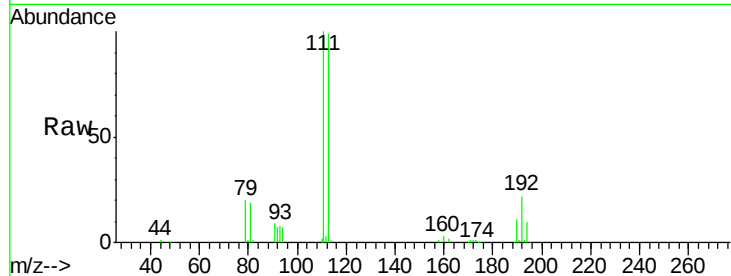




#35
 Dibromofluoromethane
 Concen: 46.97 ug/l
 RT: 4.89 min Scan# 1337
 Delta R.T. 0.00 min
 Lab File: VU025211.D
 Acq: 05 Jul 2018 13:23

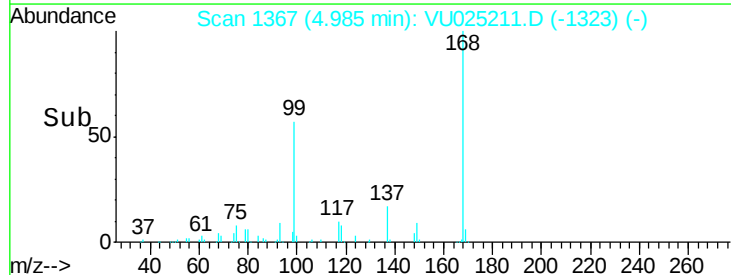
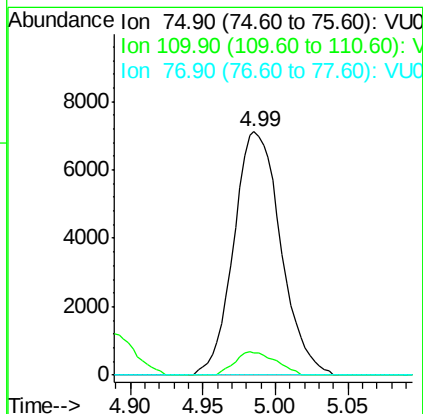
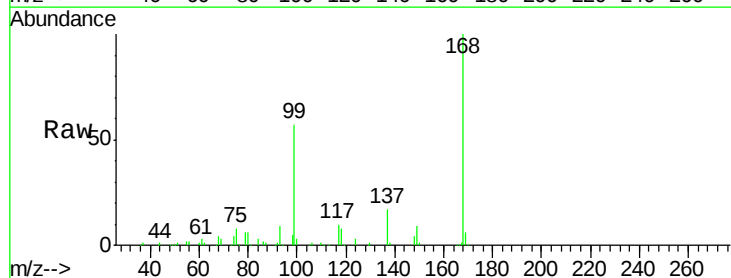
Instrument :
 MSVOA_U
 ClientSampleId :

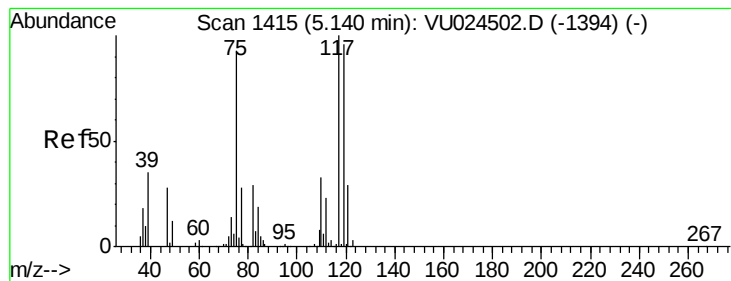
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.2	123.4
192	21.5	16.2	24.4



#36
 1,1-Dichloropropene
 Concen: 4.39 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU025211.D
 Acq: 05 Jul 2018 13:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	17.0	50.9#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 4.90 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

Instrument :

MSVOA_U

ClientSampleId :

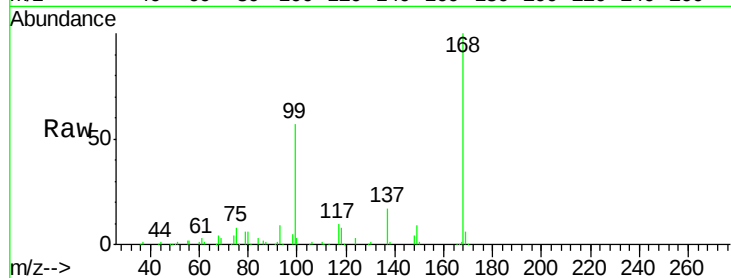
Tot Ion:117 Resp: 19697

Ion Ratio Lower Upper

117 100

119 4.9 76.1 114.1#

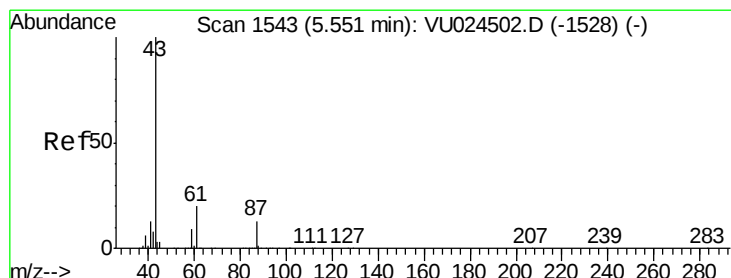
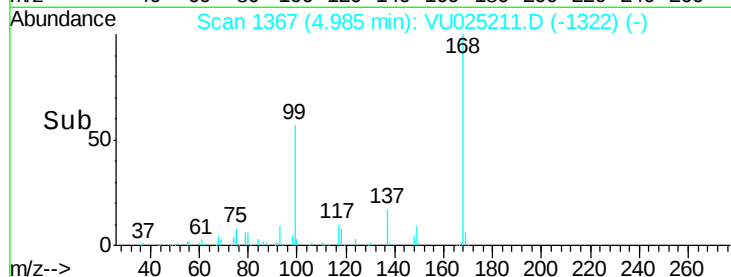
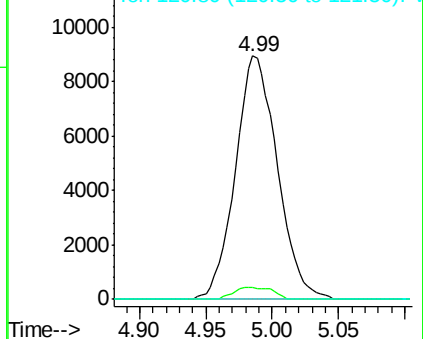
121 0.0 23.7 35.5#



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: 0.22 ug/l

RT: 5.81 min Scan# 1623

Delta R.T. 0.26 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

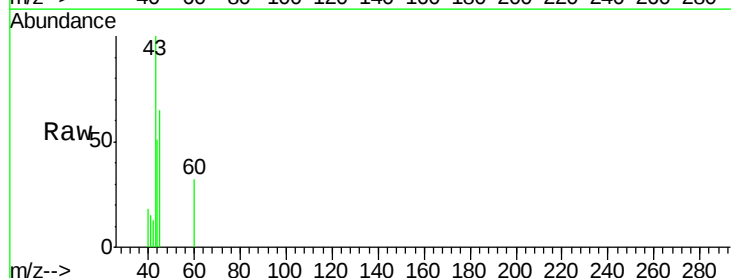
Tgt Ion: 43 Resp: 1493

Ion Ratio Lower Upper

43 100

61 0.0 15.4 23.0#

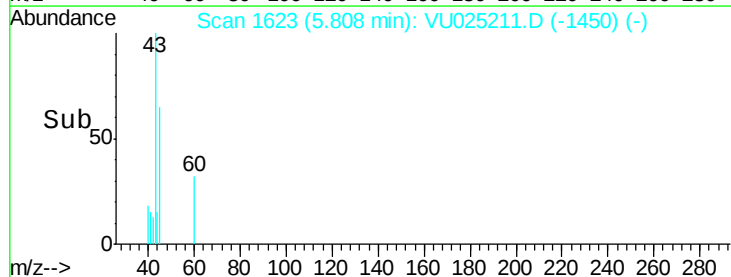
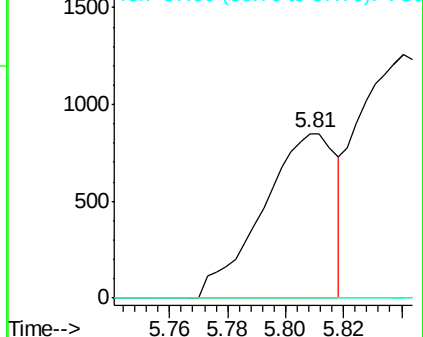
87 0.0 10.0 15.0#

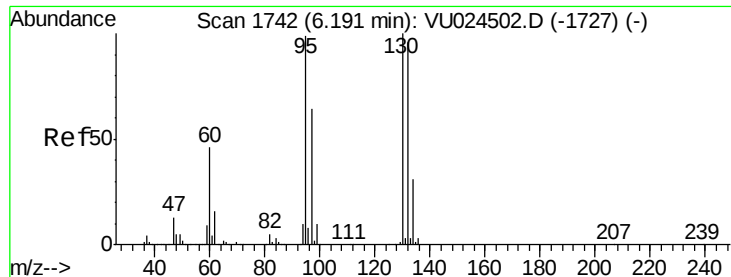


Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 87.00 (86.70 to 87.70): VU0





#44

Trichloroethene

Concen: 7.25 ug/l

RT: 6.19 min Scan# 1743

Delta R.T. 0.00 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

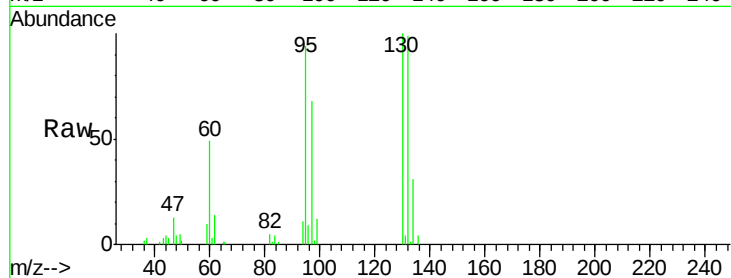
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:130 Resp: 21495

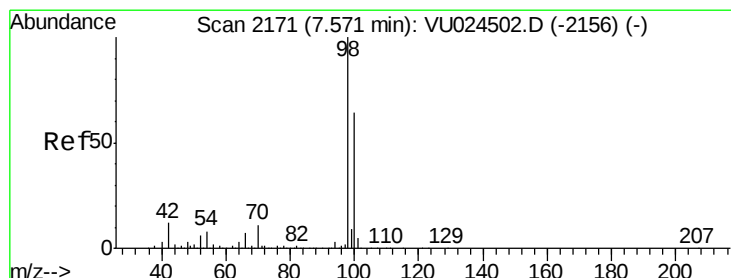
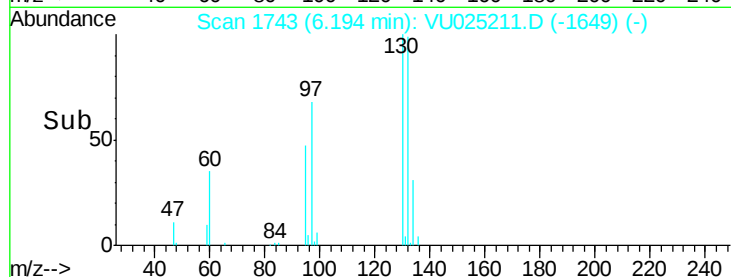
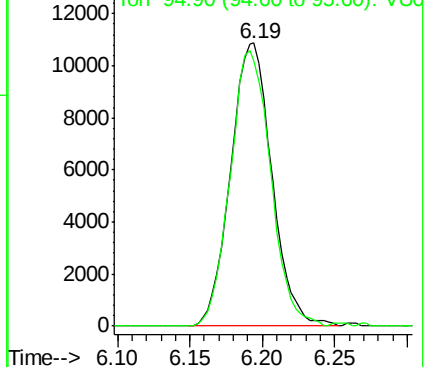
Ion Ratio Lower Upper

130 100

95 93.8 0.0 202.4



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



#50

Toluene-d8

Concen: 47.23 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU025211.D

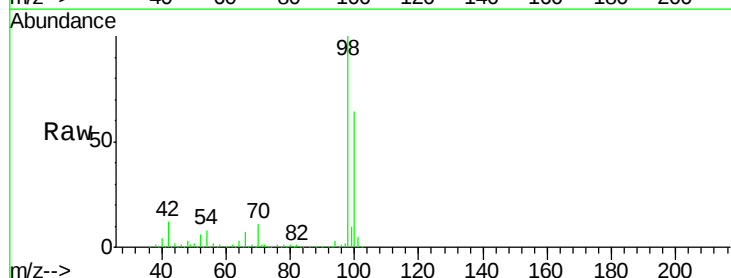
Acq: 05 Jul 2018 13:23

Tgt Ion: 98 Resp: 445066

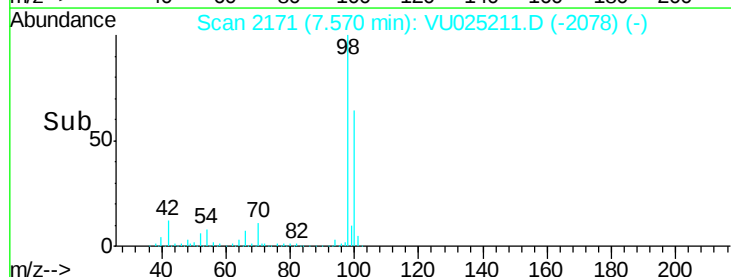
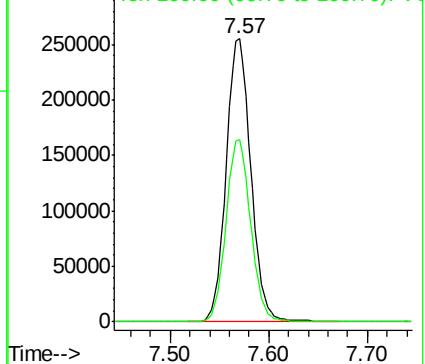
Ion Ratio Lower Upper

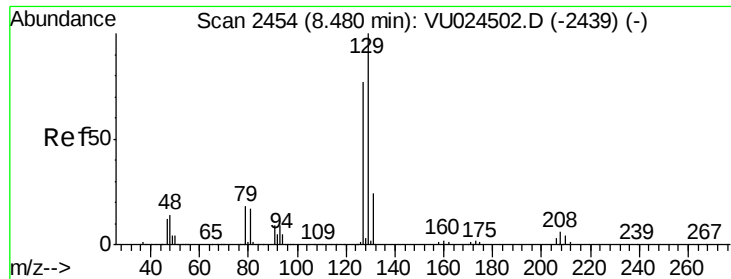
98 100

100 64.6 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024502.D (-2156) (-)

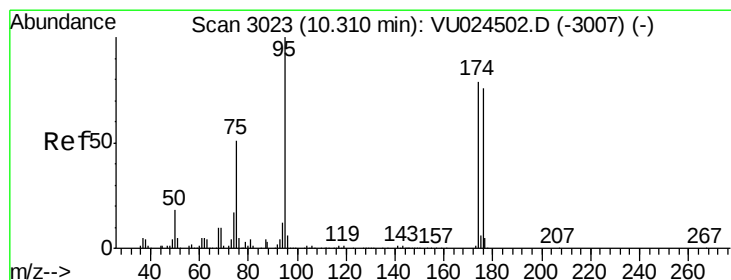
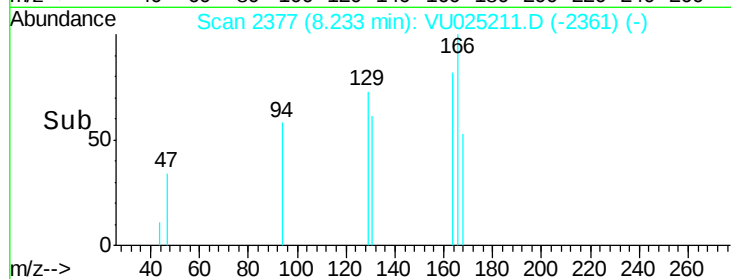
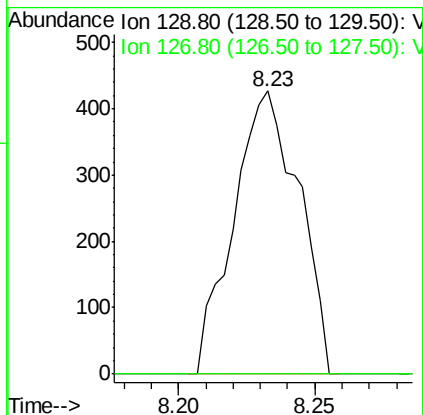
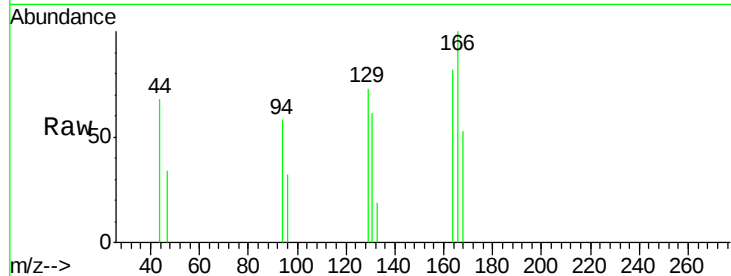




#60
 Dibromochloromethane
 Concen: 0.21 ug/l
 RT: 8.23 min Scan# 2377
 Delta R.T. -0.25 min
 Lab File: VU025211.D
 Acq: 05 Jul 2018 13:23

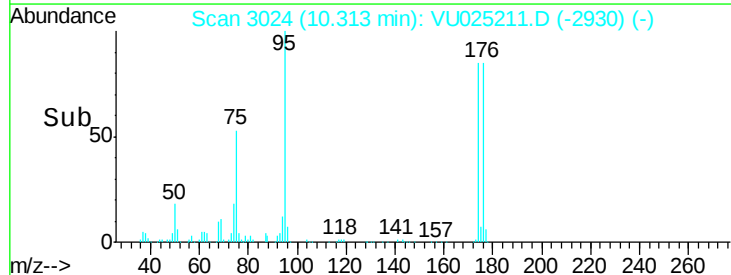
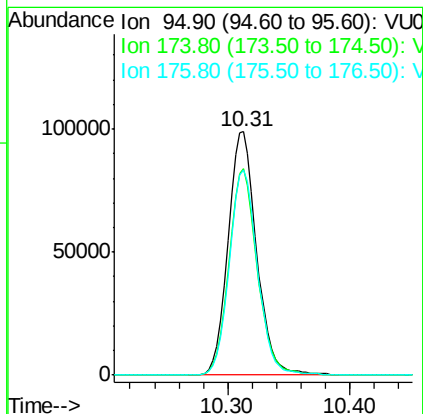
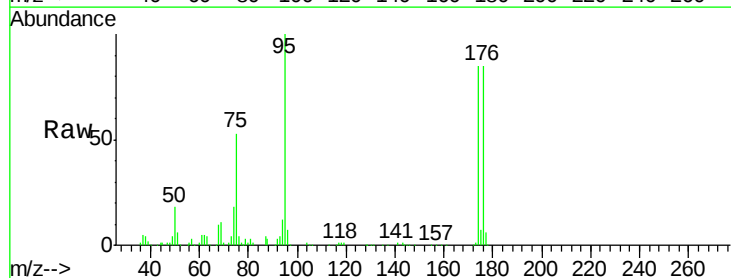
Instrument :
 MSVOA_U
 ClientSampled :

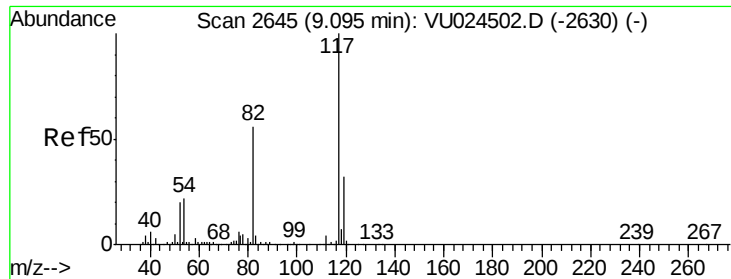
Tot Ion:129 Resp: 708
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 43.35 ug/l
 RT: 10.31 min Scan# 3024
 Delta R.T. 0.00 min
 Lab File: VU025211.D
 Acq: 05 Jul 2018 13:23

Tgt Ion: 95 Resp: 162207
 Ion Ratio Lower Upper
 95 100
 174 83.8 0.0 165.8
 176 83.3 0.0 159.4

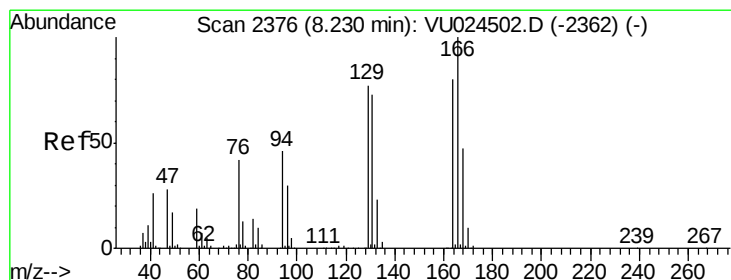
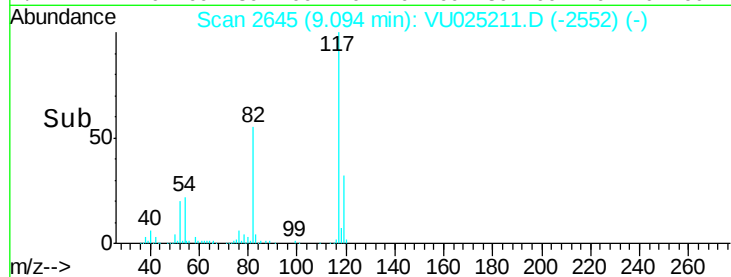
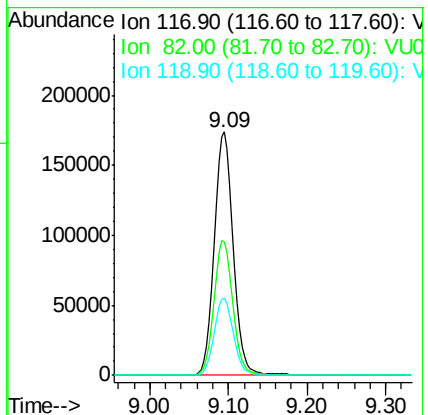
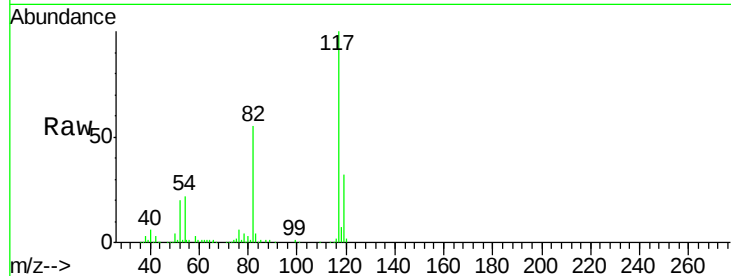




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU025211.D
Acq: 05 Jul 2018 13:23

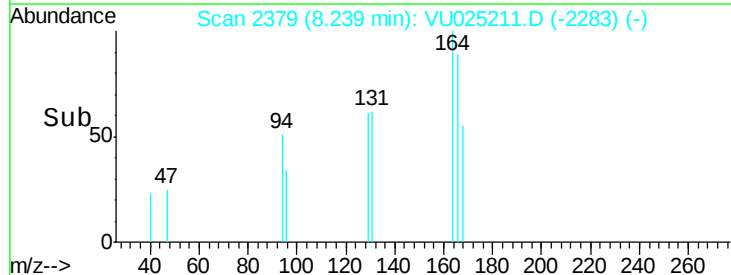
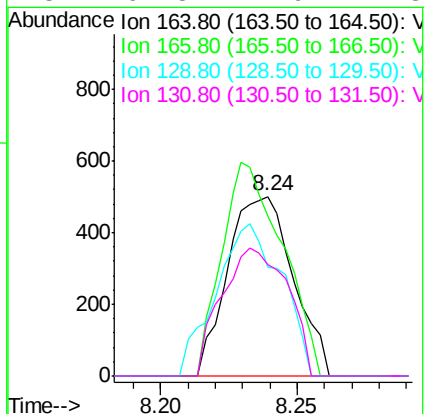
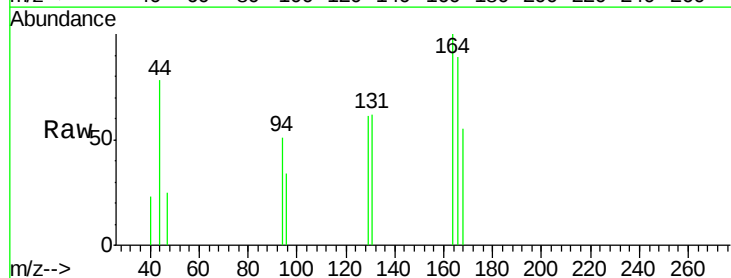
Instrument :
MSVOA_U
ClientSampleId :

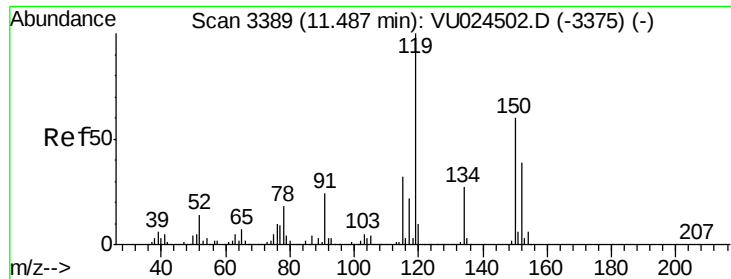
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.1	44.3	66.5
119	31.8	25.4	38.2



#64
Tetrachloroethene
Concen: 0.30 ug/l
RT: 8.24 min Scan# 2379
Delta R.T. 0.01 min
Lab File: VU025211.D
Acq: 05 Jul 2018 13:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	89.0	101.7	152.5#
129	60.6	76.9	115.3#
131	61.8	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: VU025211.D

Acq: 05 Jul 2018 13:23

Instrument :

MSVOA_U

ClientSampleId :

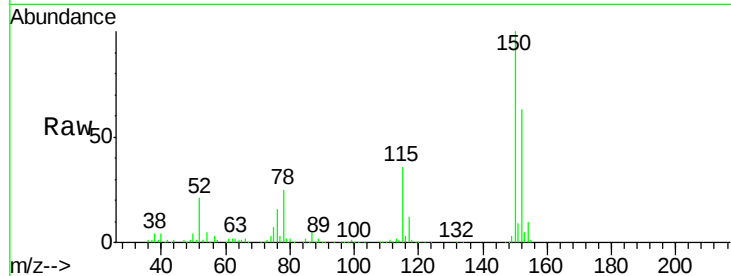
Tot Ion:152 Resp: 144646

Ion Ratio Lower Upper

152 100

115 57.8 43.0 129.0

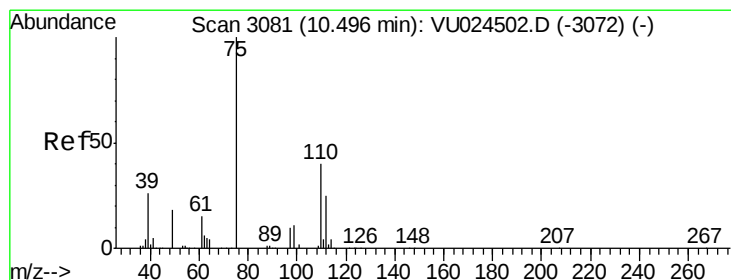
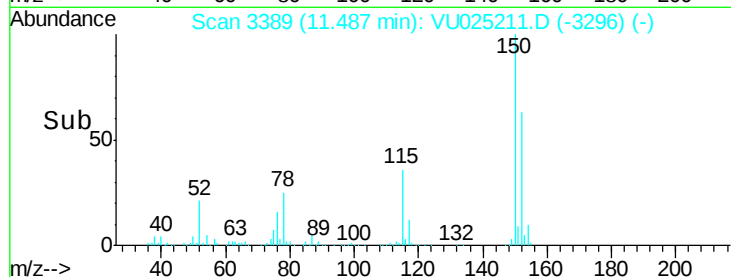
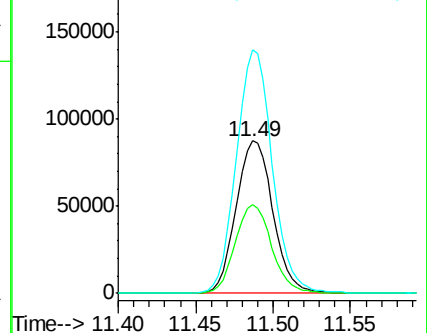
150 156.6 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.75 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU025211.D

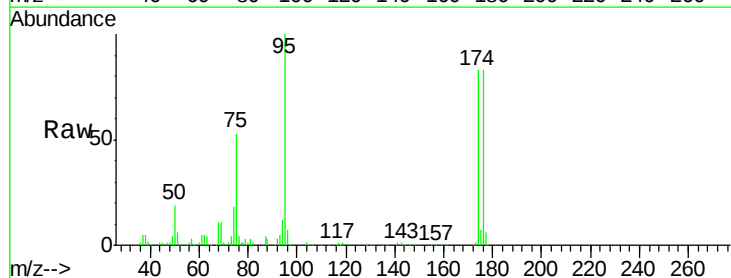
Acq: 05 Jul 2018 13:23

Tgt Ion: 75 Resp: 85188

Ion Ratio Lower Upper

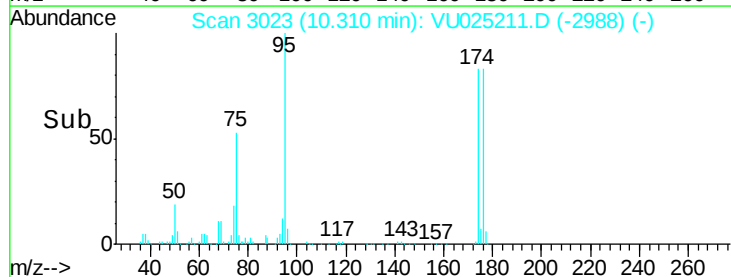
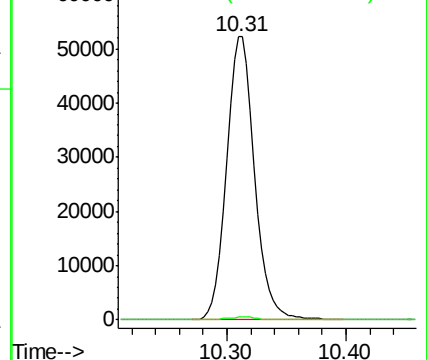
75 100

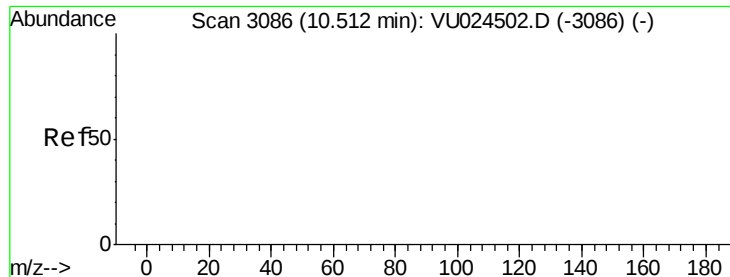
77 1.1 20.9 62.7#



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: 61.91 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

Instrument :

MSVOA_U

ClientSampleId :

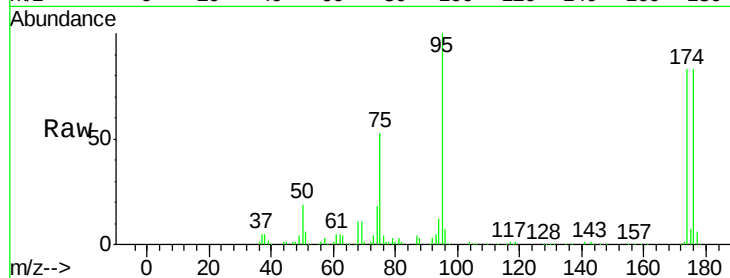
Tot Ion: 75 Resp: 85188

Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

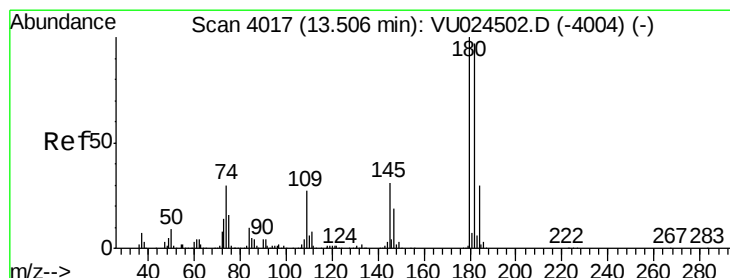
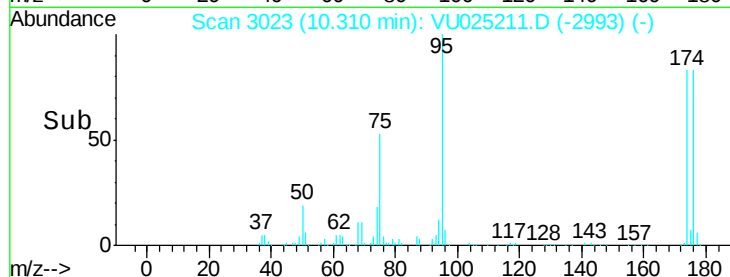
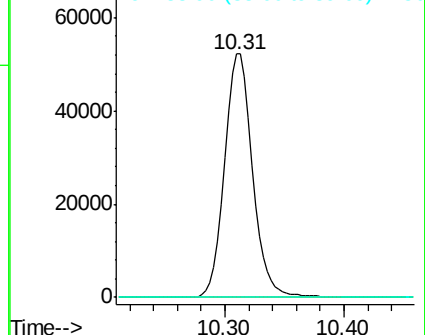
89 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VU024502.D (-3086) (-)

Ion 53.00 (52.70 to 53.70): VU024502.D (-3086) (-)

Ion 88.90 (88.60 to 89.60): VU024502.D (-3086) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.34 ug/l

RT: 13.52 min Scan# 4020

Delta R.T. 0.01 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

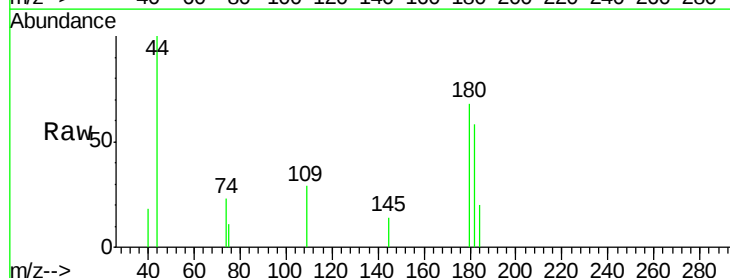
Tgt Ion:180 Resp: 1081

Ion Ratio Lower Upper

180 100

182 108.3 48.0 144.2

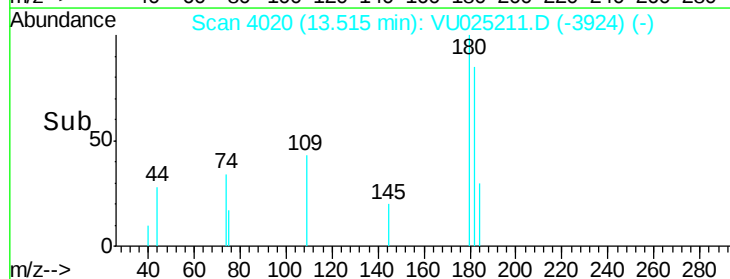
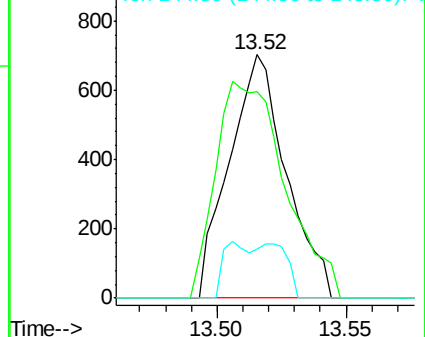
145 10.4 14.7 44.1#

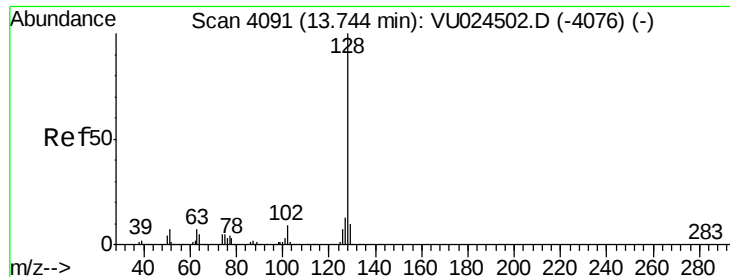


Abundance Ion 179.80 (179.50 to 180.50): VU024502.D (-4004) (-)

Ion 181.80 (181.50 to 182.50): VU024502.D (-4004) (-)

Ion 144.80 (144.50 to 145.50): VU024502.D (-4004) (-)





#95

Naphthalene

Concen: 1.43 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

Instrument :

MSVOA_U

ClientSampled :

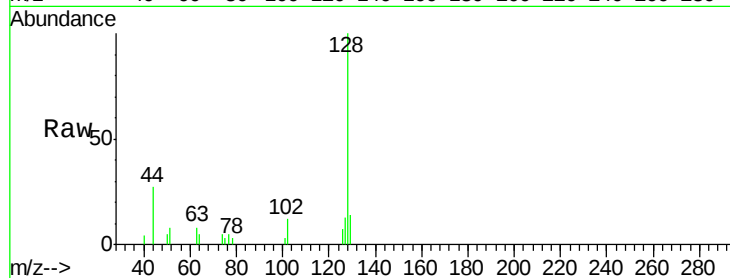
Tot Ion:128 Resp: 8104

Ion Ratio Lower Upper

128 100

127 12.0 10.6 16.0

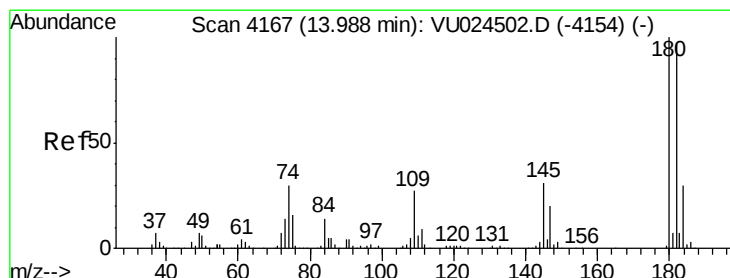
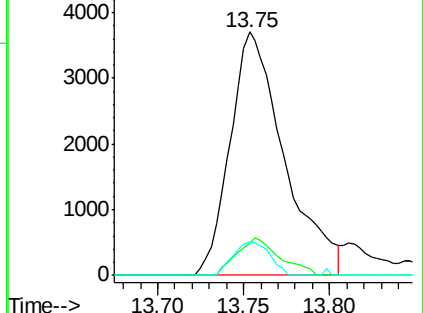
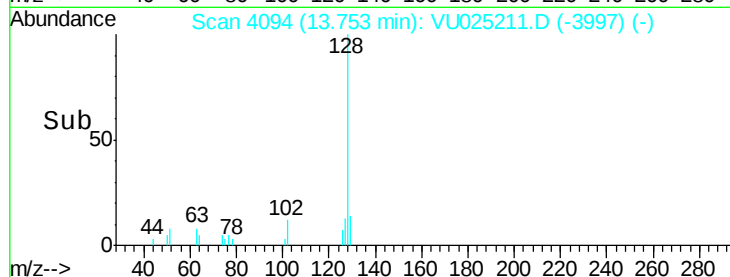
129 9.3 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.51 ug/l

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU025211.D

Acq: 05 Jul 2018 13:23

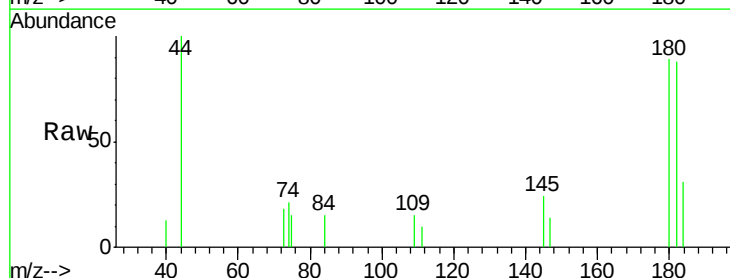
Tgt Ion:180 Resp: 1630

Ion Ratio Lower Upper

180 100

182 97.1 47.9 143.7

145 26.1 15.4 46.1



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

