

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062118\
 Data File : VU024811.D
 Acq On : 21 Jun 2018 15:16
 Operator : MD/SY
 Sample : J3517-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 S39-0181

Quant Time: Jun 22 03:51:28 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	199916	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	304449	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	281166	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	155695	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	140421	43.03	ug/l	0.00
Spiked Amount			Recovery	=	86.06%	
35) Dibromofluoromethane	4.89	113	117960	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
50) Toluene-d8	7.57	98	437832	47.51	ug/l	0.00
Spiked Amount			Recovery	=	95.02%	
62) 4-Bromofluorobenzene	10.31	95	161088	44.02	ug/l	0.00
Spiked Amount			Recovery	=	88.04%	

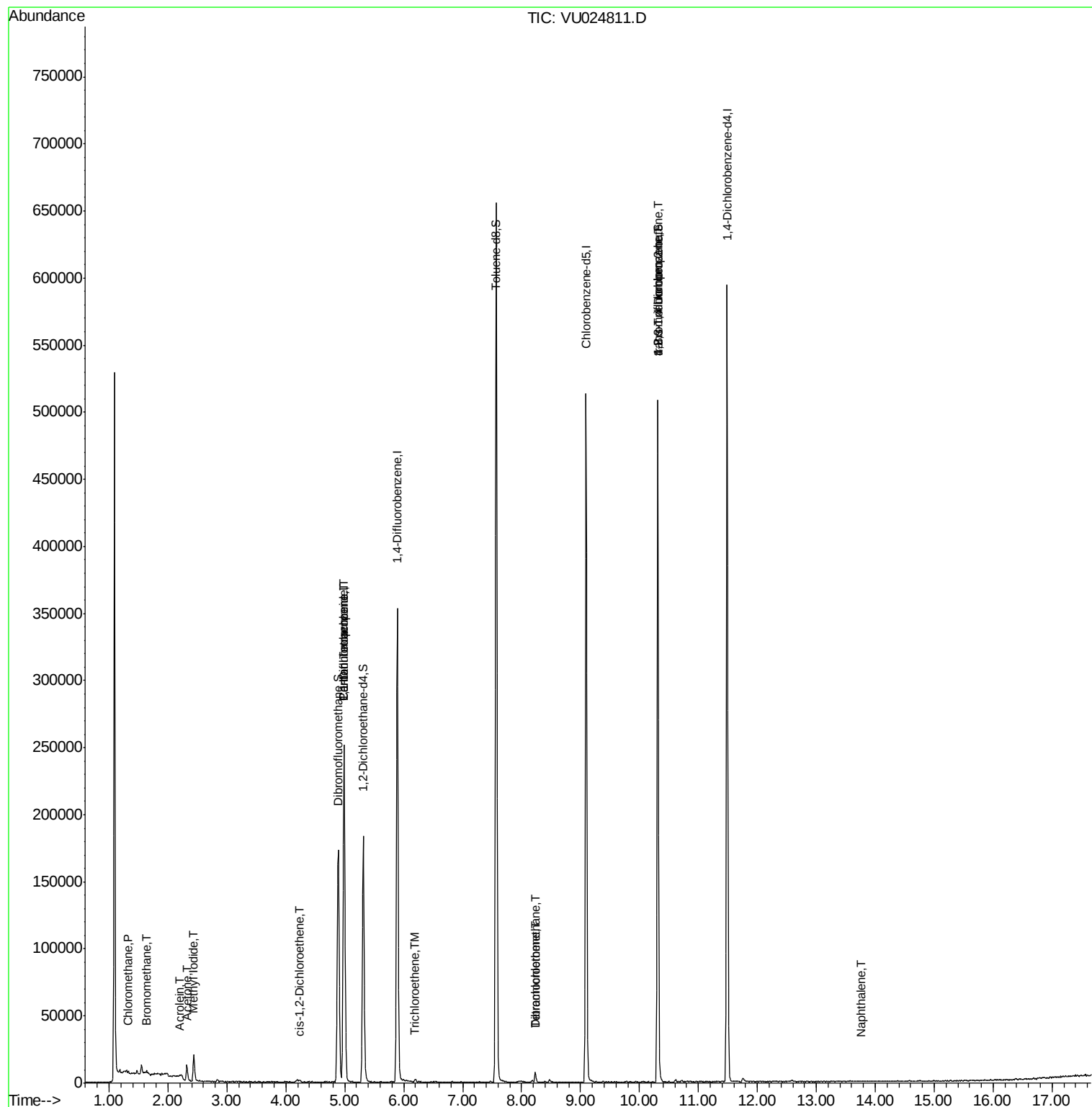
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1035	0.405	ug/l	96
5) Bromomethane	1.64	94	654	0.513	ug/l #	79
6) Chloroethane	1.69	64	51	Below Cal	#	43
8) Diethyl Ether	2.18	74	19	Below Cal	#	1
10) Methyl Iodide	2.42	142	64	5.316	ug/l #	40
13) Acrolein	2.20	56	356	0.854	ug/l #	66
16) Acetone	2.32	43	11485	6.550	ug/l	98
27) cis-1,2-Dichloroethene	4.24	96	633	0.220	ug/l	74
31) Cyclohexane	4.99	56	3630	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	14322	4.003	ug/l #	50
38) Carbon Tetrachloride	4.99	117	18760	4.769	ug/l #	17
44) Trichloroethene	6.20	130	694	0.239	ug/l	82
60) Dibromochloromethane	8.24	129	1615	0.486	ug/l #	11
64) Tetrachloroethene	8.24	164	1740	0.651	ug/l	97
76) 1,2,3-Trichloropropane	10.31	75	83843	24.459	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	83843	56.609	ug/l #	100
95) Naphthalene	13.76	128	246	0.700	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: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

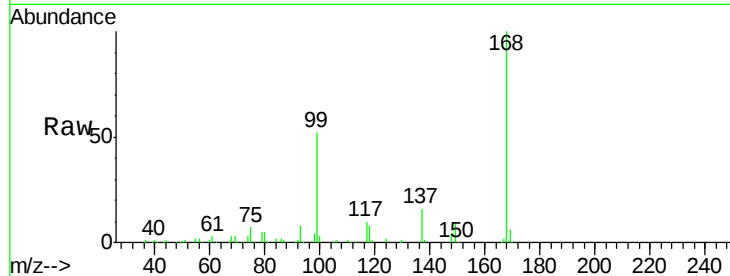
S39-0181

Tot Ion:168 Resp: 199916

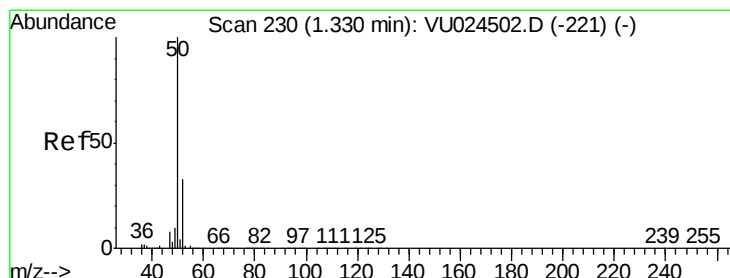
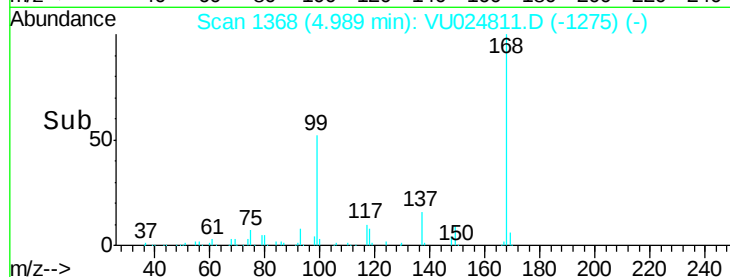
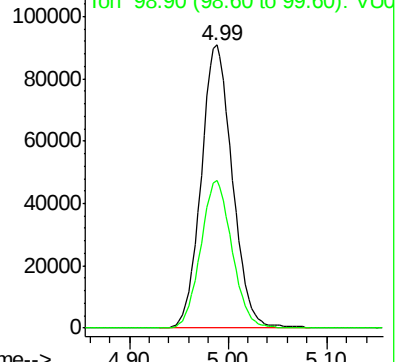
Ion Ratio Lower Upper

168 100

99 52.2 43.2 64.8



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



#3

Chloromethane

Concen: 0.405 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024811.D

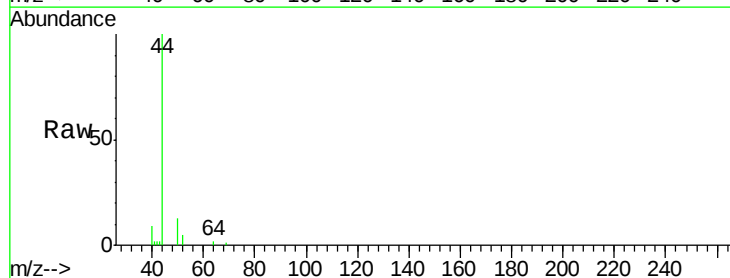
Acq: 21 Jun 2018 15:16

Tgt Ion: 50 Resp: 1035

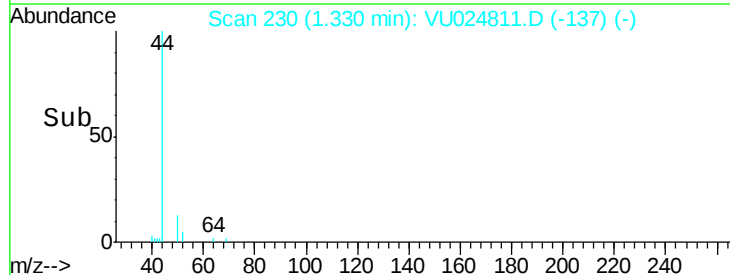
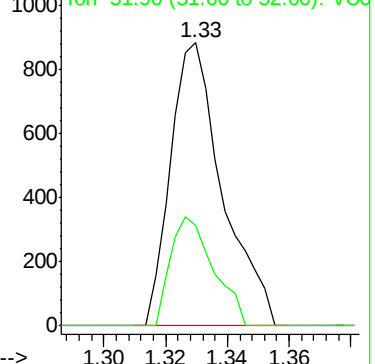
Ion Ratio Lower Upper

50 100

52 35.3 26.4 39.6



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





#5

Bromomethane

Concen: 0.513 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

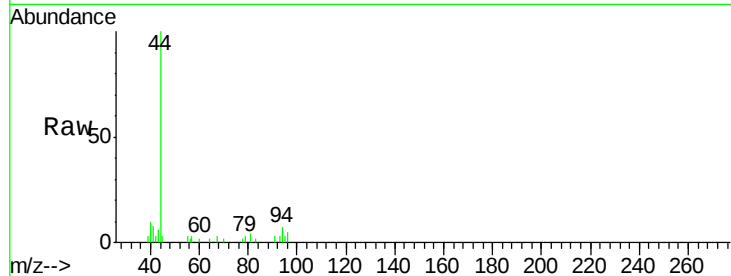
S39-0181

Tot Ion: 94 Resp: 654

Ion Ratio Lower Upper

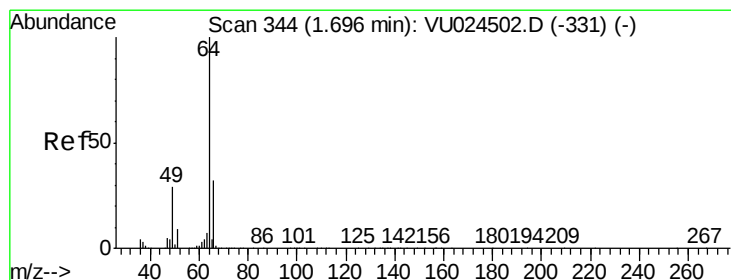
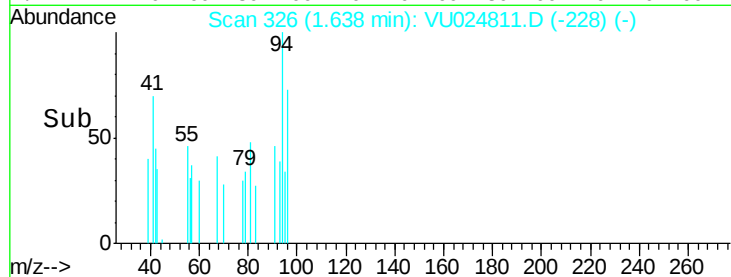
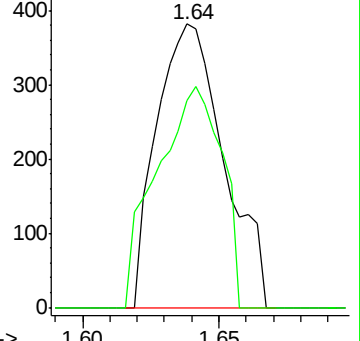
94 100

96 72.8 74.5 111.7#



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 343

Delta R.T. -0.00 min

Lab File: VU024811.D

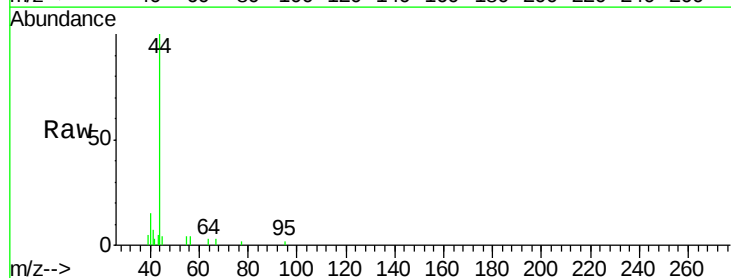
Acq: 21 Jun 2018 15:16

Tgt Ion: 64 Resp: 51

Ion Ratio Lower Upper

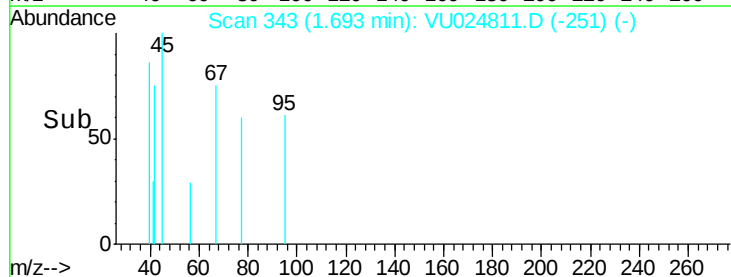
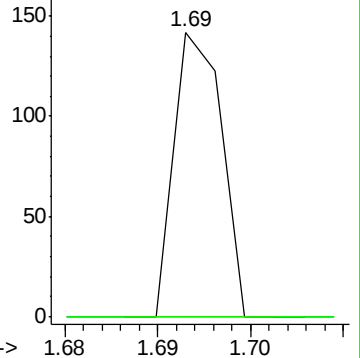
64 100

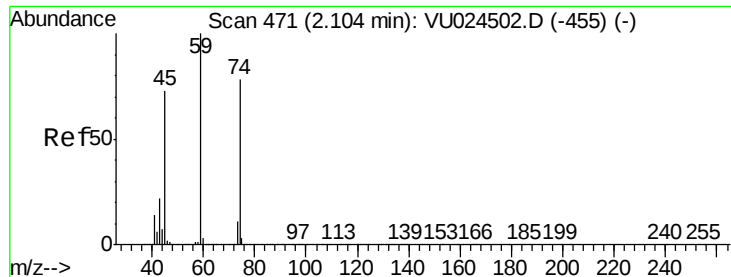
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#8

Diethyl Ether

Concen: Below Cal

RT: 2.18 min Scan# 496

Delta R.T. 0.08 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

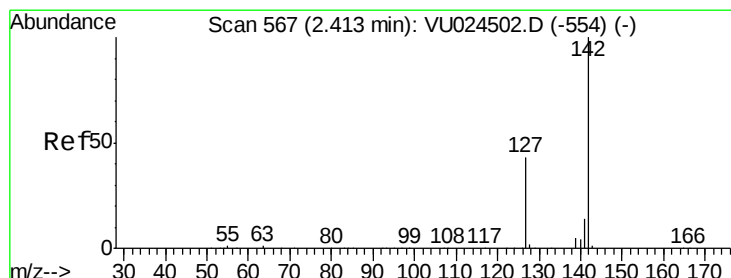
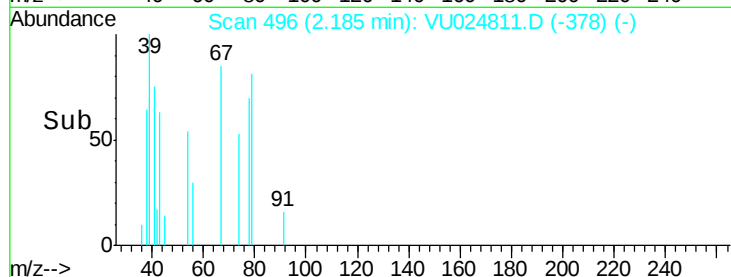
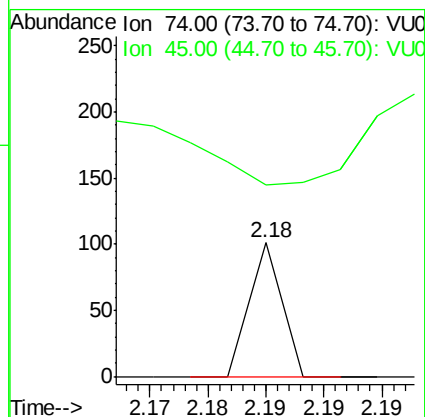
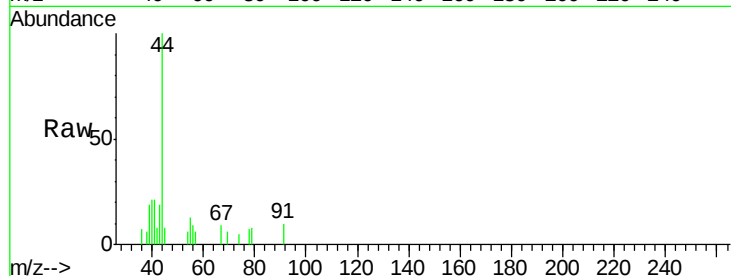
S39-0181

Tot Ion: 74 Resp: 19

Ion Ratio Lower Upper

74 100

45 1215.8 55.0 165.0#



#10

Methyl Iodide

Concen: 5.316 ug/l

RT: 2.42 min Scan# 570

Delta R.T. 0.01 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

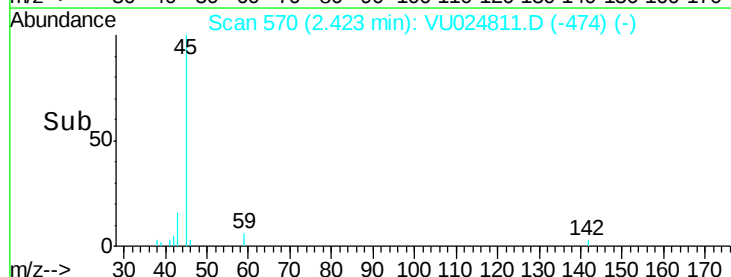
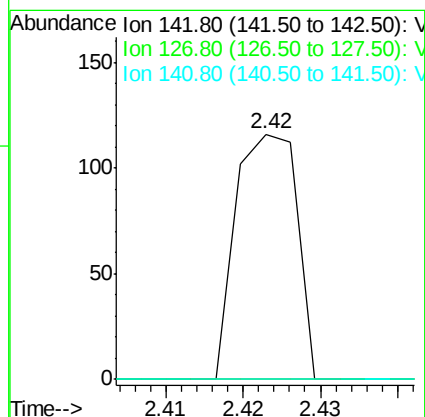
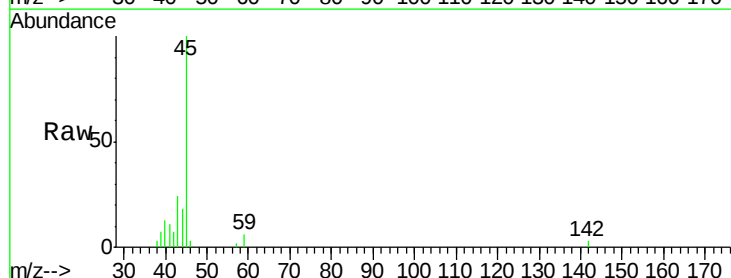
Tgt Ion: 142 Resp: 64

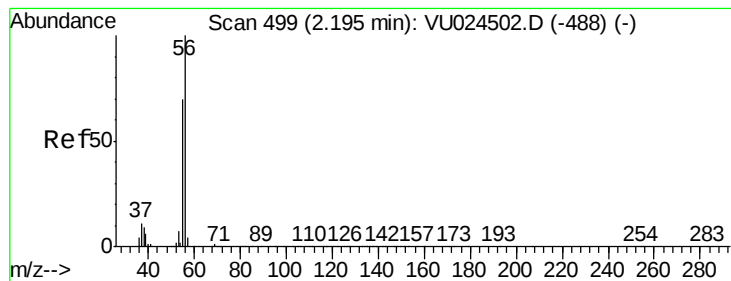
Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

141 0.0 11.7 17.5#





#13

Acrolein

Concen: 0.854 ug/l

RT: 2.20 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

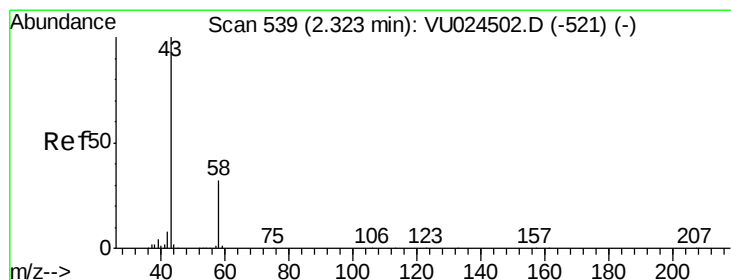
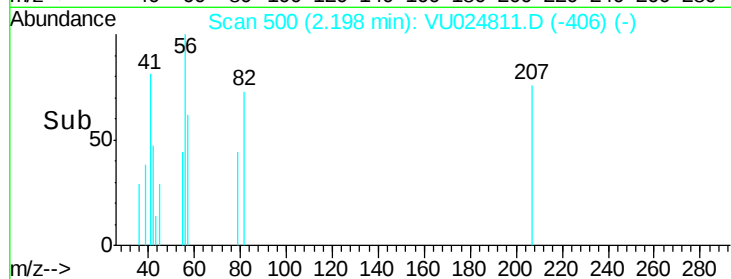
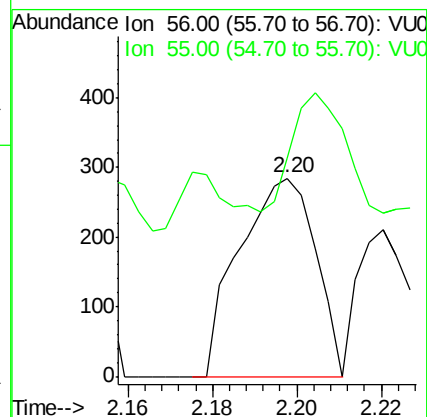
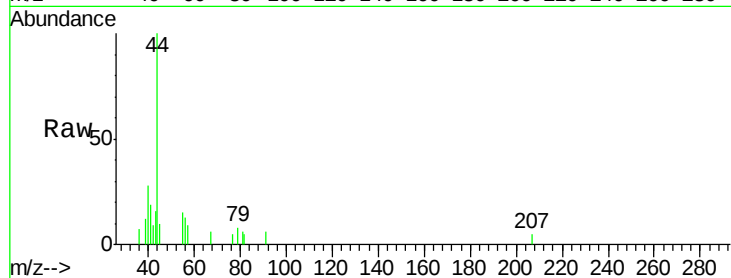
S39-0181

Tot Ion: 56 Resp: 356

Ion Ratio Lower Upper

56 100

55 44.1 58.4 87.6#



#16

Acetone

Concen: 6.550 ug/l

RT: 2.32 min Scan# 538

Delta R.T. -0.00 min

Lab File: VU024811.D

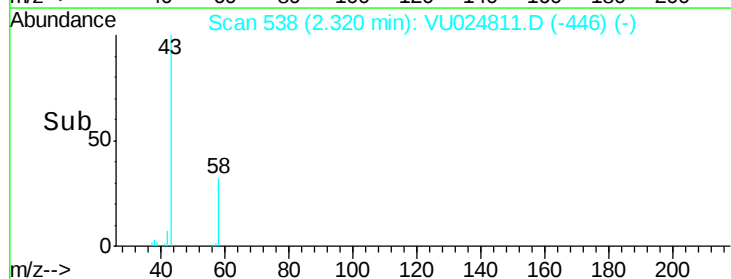
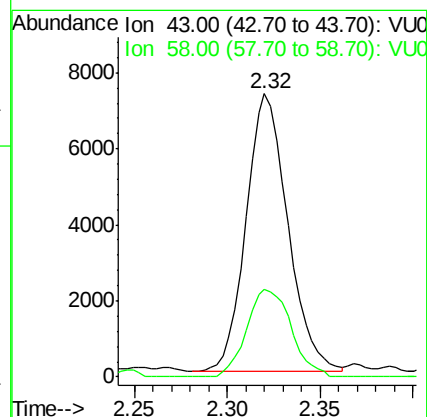
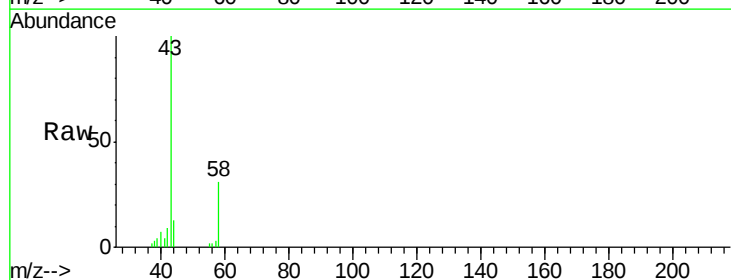
Acq: 21 Jun 2018 15:16

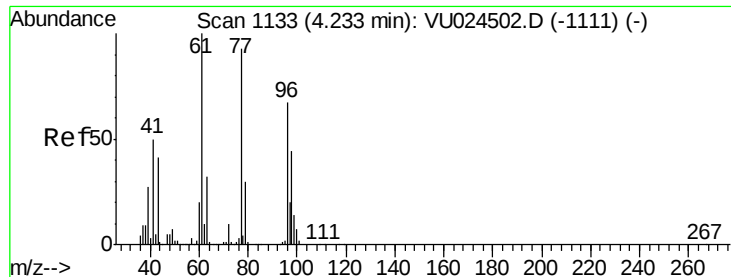
Tgt Ion: 43 Resp: 11485

Ion Ratio Lower Upper

43 100

58 31.7 24.4 36.6

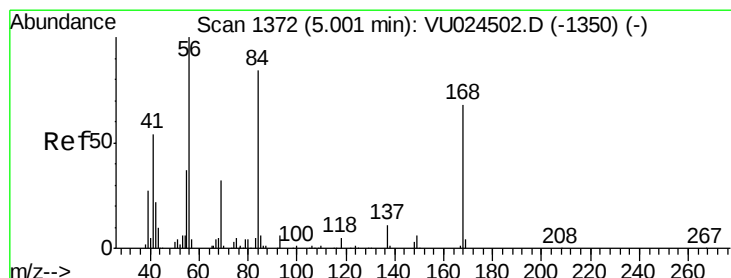
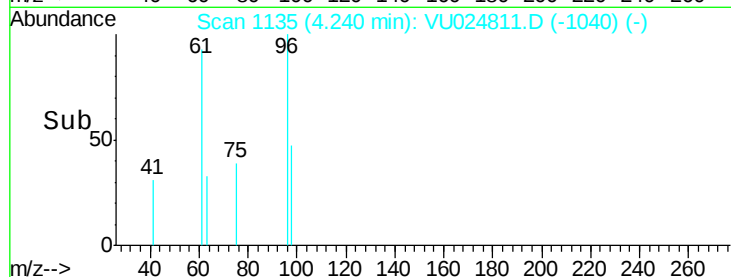
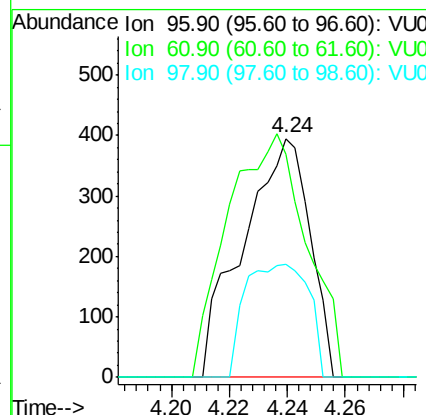
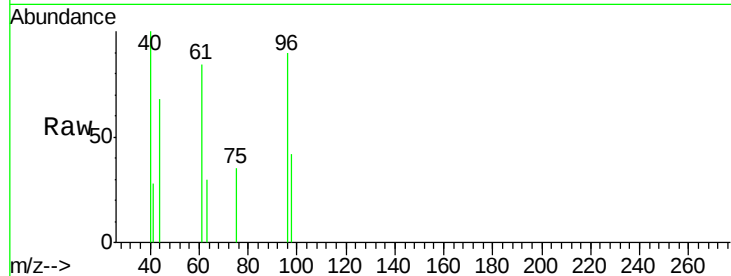




#27
 cis-1,2-Dichloroethene
 Concen: 0.220 ug/l
 RT: 4.24 min Scan# 1135
 Delta R.T. 0.01 min
 Lab File: VU024811.D
 Acq: 21 Jun 2018 15:16

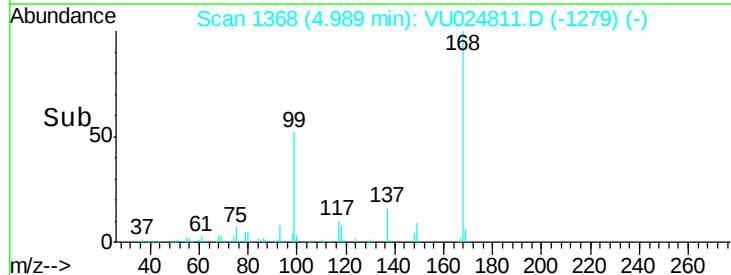
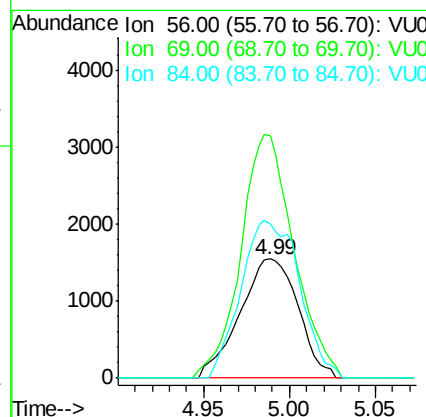
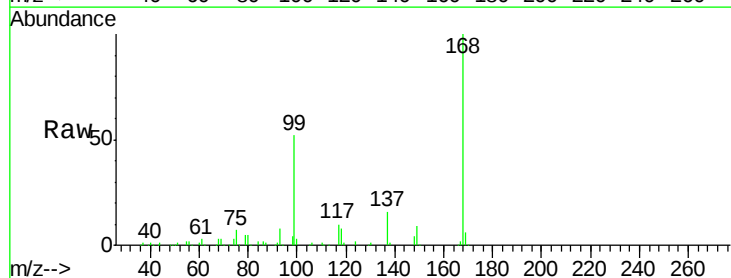
Instrument :
 MSVOA_U
 ClientSampled :
 S39-0181

Tot Ion: 96 Resp: 633
 Ion Ratio Lower Upper
 96 100
 61 119.7 0.0 306.6
 98 44.9 0.0 128.8



#31
 Cyclohexane
 Concen: Below Cal
 RT: 4.99 min Scan# 1368
 Delta R.T. -0.01 min
 Lab File: VU024811.D
 Acq: 21 Jun 2018 15:16

Tgt Ion: 56 Resp: 3630
 Ion Ratio Lower Upper
 56 100
 69 203.3 24.8 37.2#
 84 129.4 65.2 97.8#





#33

1,2-Dichloroethane-d4

Concen: 43.026 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

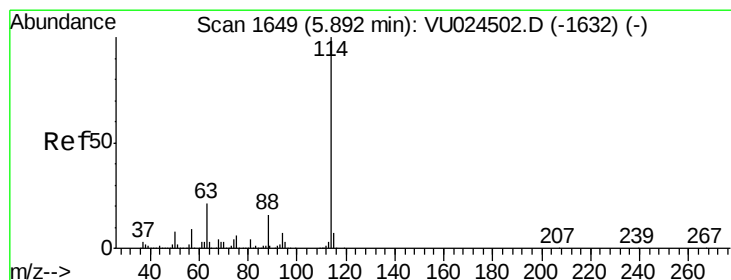
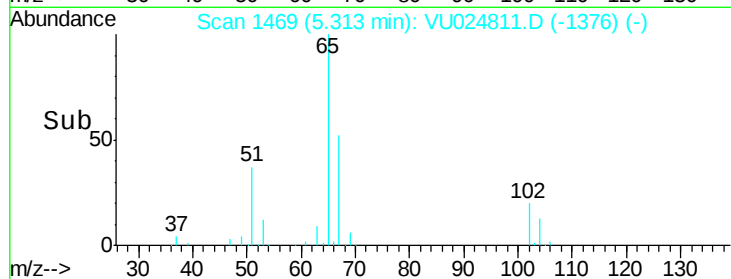
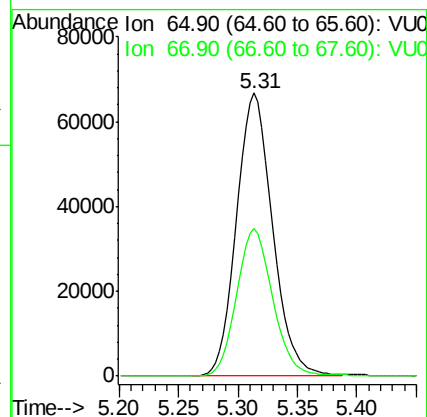
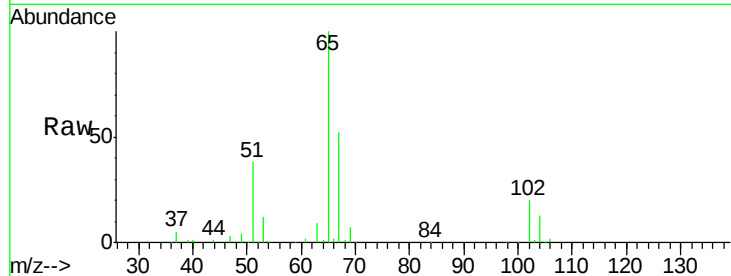
S39-0181

Tot Ion: 65 Resp: 140421

Ion Ratio Lower Upper

65 100

67 52.2 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: VU024811.D

Acq: 21 Jun 2018 15:16

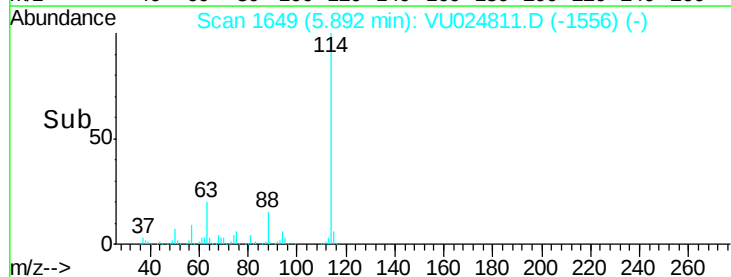
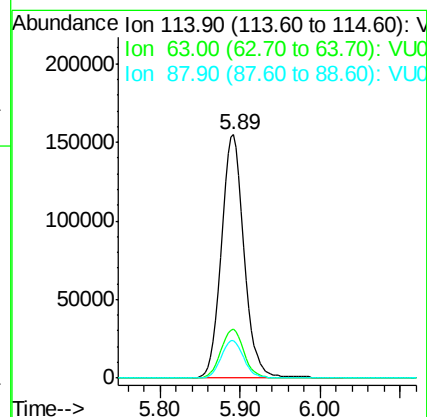
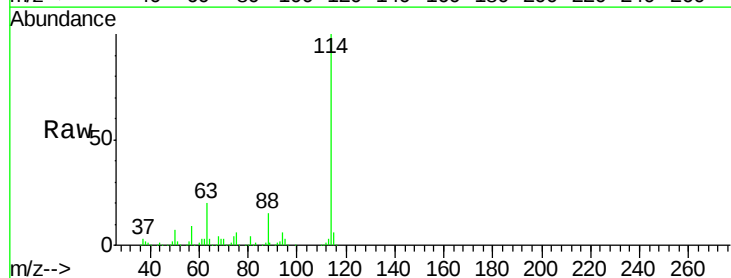
Tgt Ion: 114 Resp: 304449

Ion Ratio Lower Upper

114 100

63 20.2 0.0 45.4

88 15.3 0.0 31.0





#35

Dibromofluoromethane

Concen: 46.686 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

S39-0181

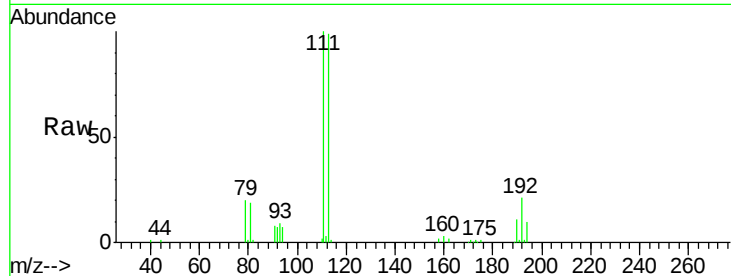
Tot Ion:113 Resp: 117960

Ion Ratio Lower Upper

113 100

111 101.7 82.2 123.4

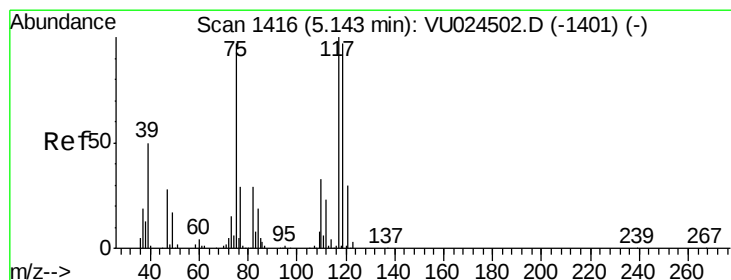
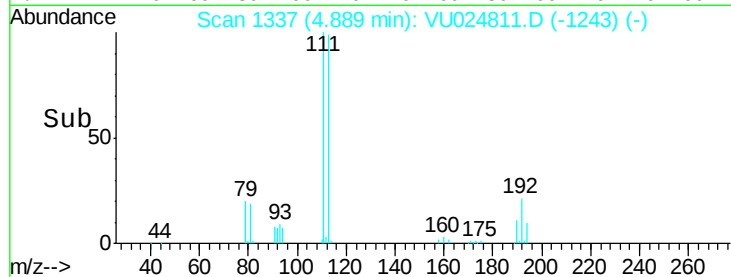
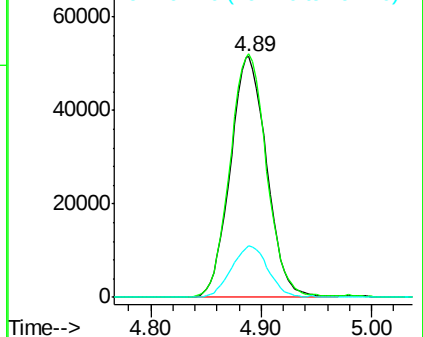
192 21.3 16.2 24.4



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.003 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

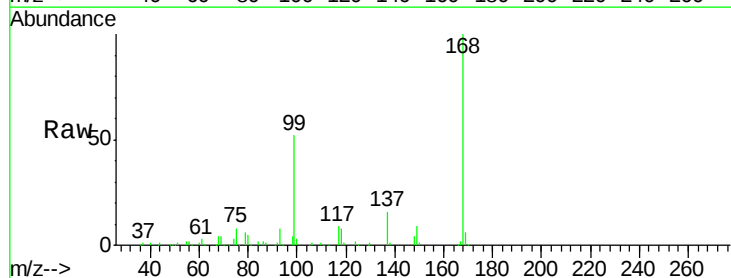
Tgt Ion: 75 Resp: 14322

Ion Ratio Lower Upper

75 100

110 8.5 17.0 50.9#

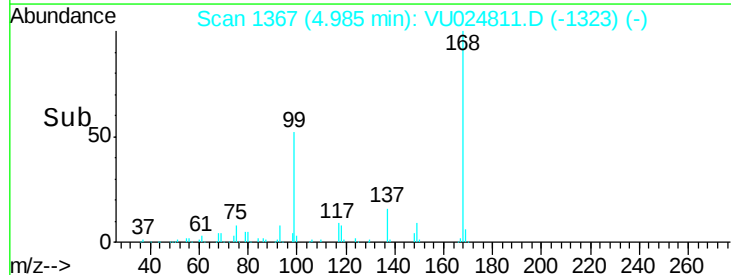
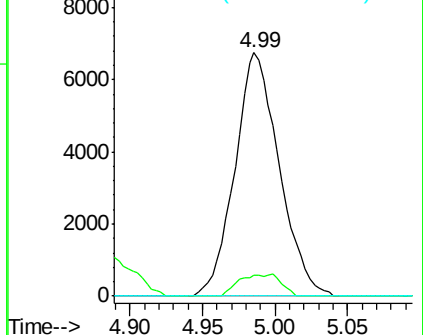
77 0.0 24.2 36.4#

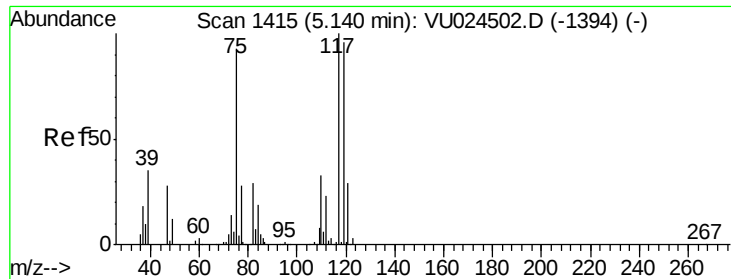


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0





#38

Carbon Tetrachloride

Concen: 4.769 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

S39-0181

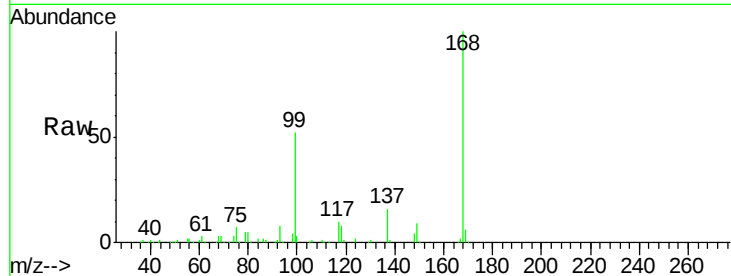
Tot Ion:117 Resp: 18760

Ion Ratio Lower Upper

117 100

119 5.7 76.1 114.1#

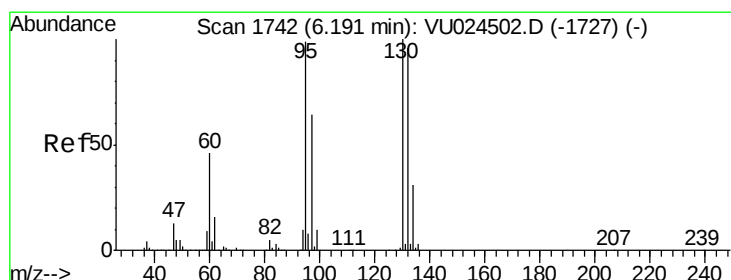
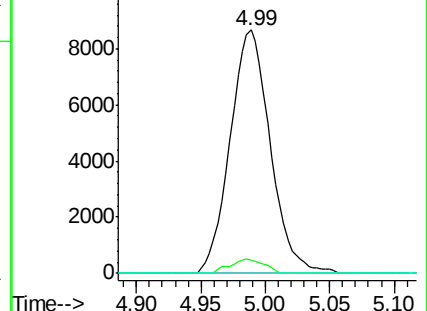
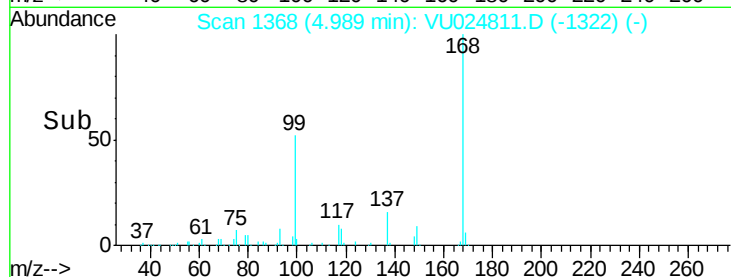
121 0.0 23.7 35.5#



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



#44

Trichloroethene

Concen: 0.239 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU024811.D

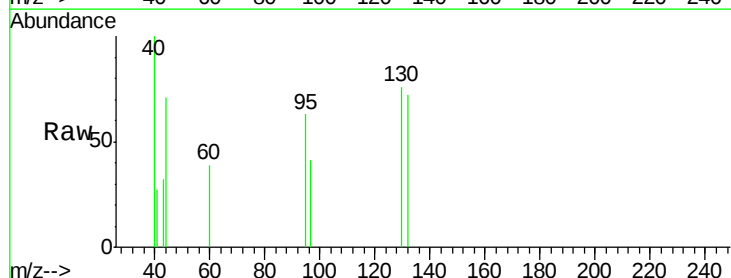
Acq: 21 Jun 2018 15:16

Tgt Ion:130 Resp: 694

Ion Ratio Lower Upper

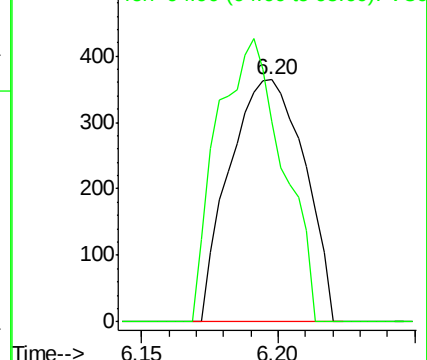
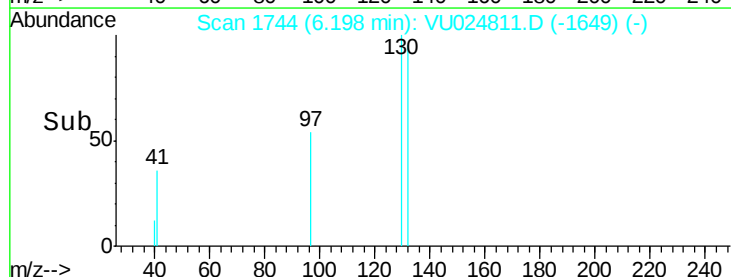
130 100

95 82.7 0.0 202.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0





#50

Toluene-d8

Concen: 47.506 ug/l

RT: 7.57 min Scan# 2170

Delta R.T. -0.00 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

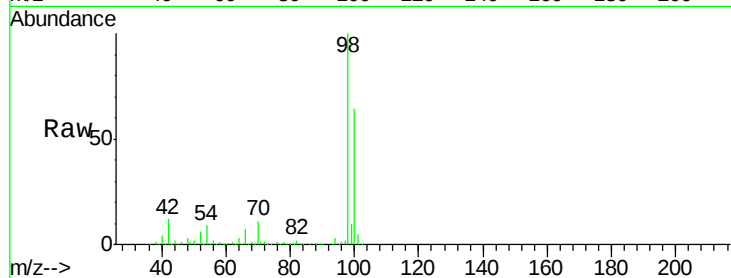
S39-0181

Tot Ion: 98 Resp: 437832

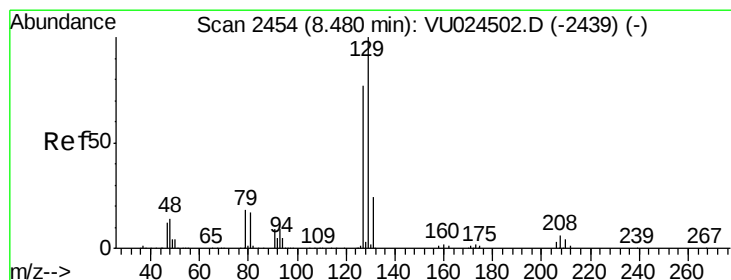
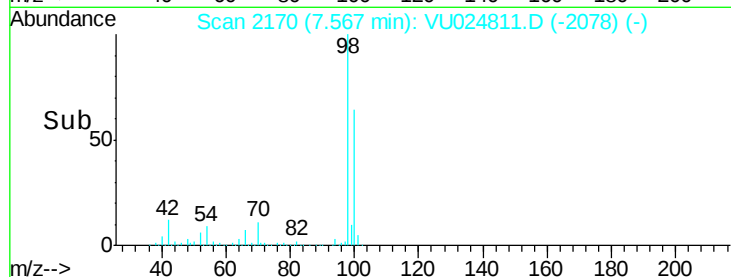
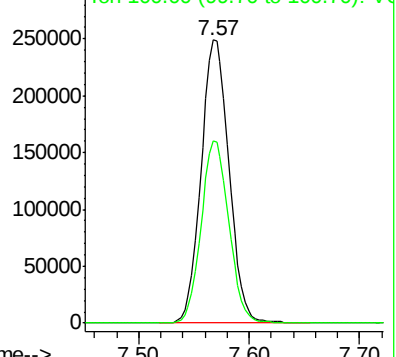
Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



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



#60

Dibromochloromethane

Concen: 0.486 ug/l

RT: 8.24 min Scan# 2378

Delta R.T. -0.24 min

Lab File: VU024811.D

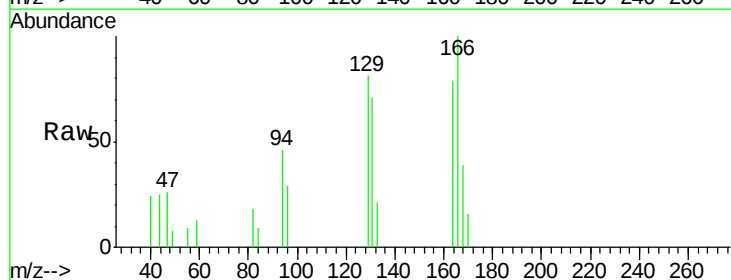
Acq: 21 Jun 2018 15:16

Tgt Ion: 129 Resp: 1615

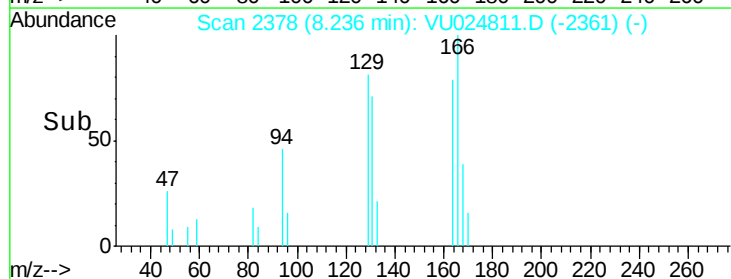
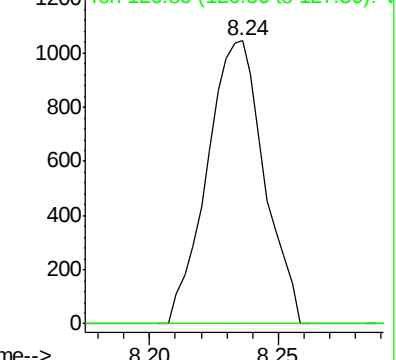
Ion Ratio Lower Upper

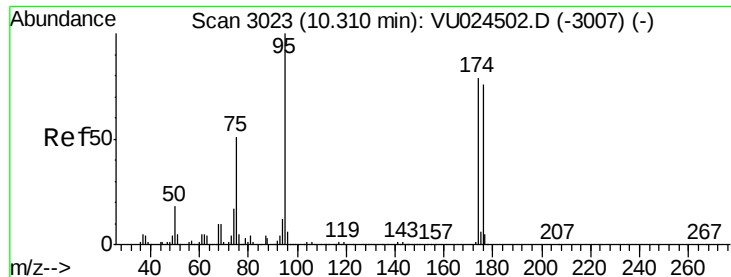
129 100

127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): VU024502.D (-2439) (-)





#62

4-Bromofluorobenzene

Concen: 44.022 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. 0.00 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

S39-0181

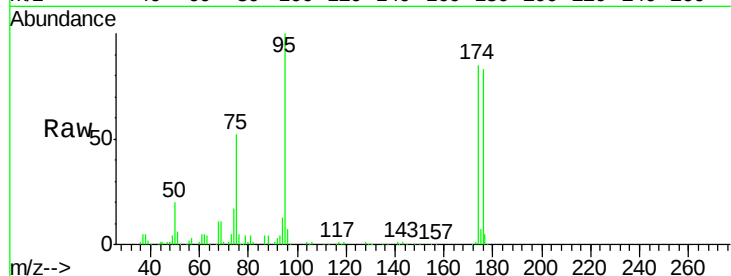
Tot Ion: 95 Resp: 161088

Ion Ratio Lower Upper

95 100

174 86.4 0.0 165.8

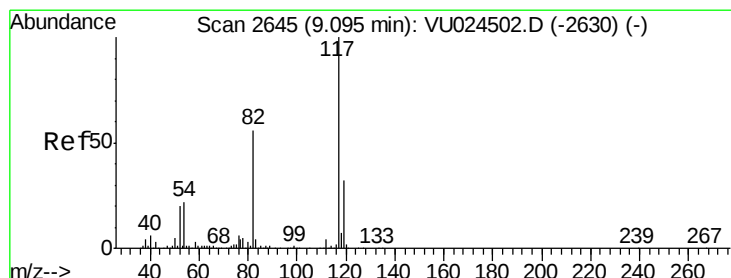
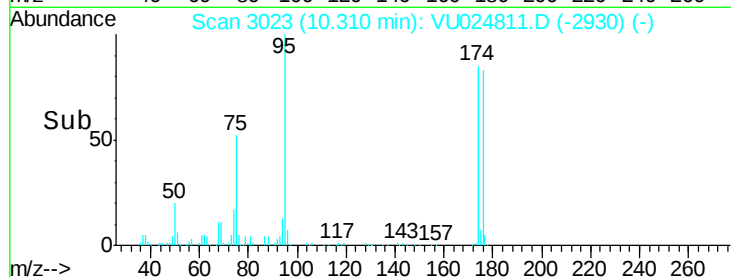
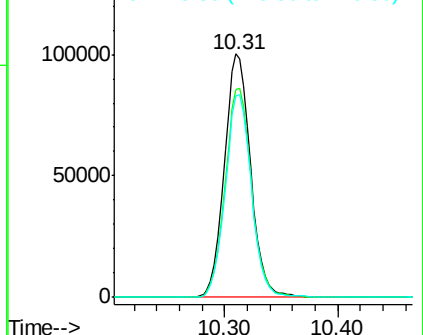
176 83.3 0.0 159.4



Abundance Ion 94.90 (94.60 to 95.60): VU024811.D (-2930) (-)

Ion 173.80 (173.50 to 174.50): VU024811.D (-2930) (-)

Ion 175.80 (175.50 to 176.50): VU024811.D (-2930) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

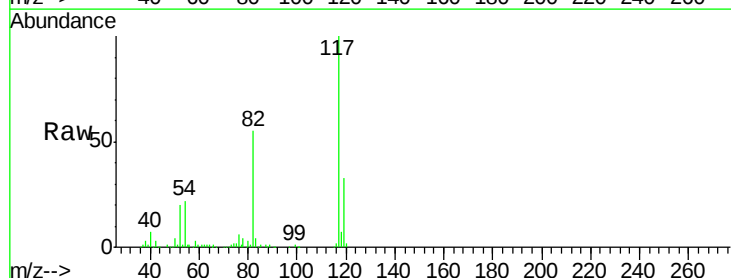
Tgt Ion: 117 Resp: 281166

Ion Ratio Lower Upper

117 100

82 55.2 44.3 66.5

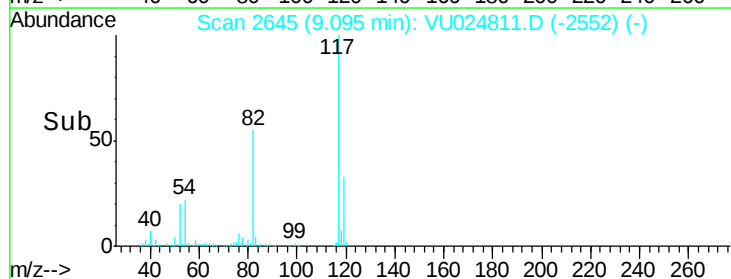
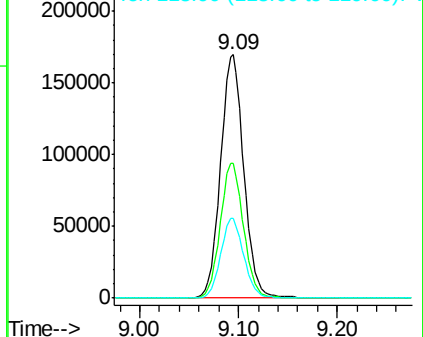
119 32.5 25.4 38.2

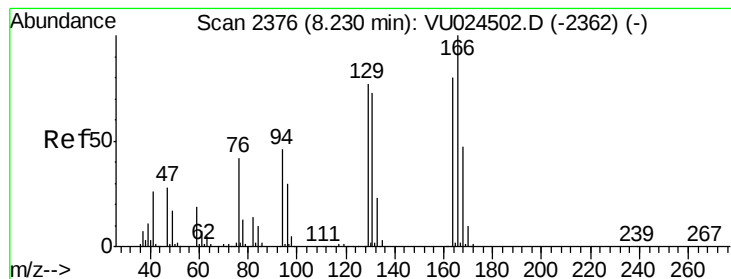


Abundance Ion 116.90 (116.60 to 117.60): VU024811.D (-2552) (-)

Ion 82.00 (81.70 to 82.70): VU024811.D (-2552) (-)

Ion 118.90 (118.60 to 119.60): VU024811.D (-2552) (-)





#64

Tetrachloroethene

Concen: 0.651 ug/l

RT: 8.24 min Scan# 2378

Delta R.T. 0.01 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

S39-0181

Tot Ion:164 Resp: 1740

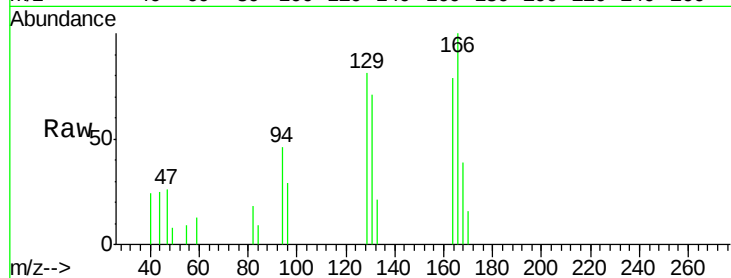
Ion Ratio Lower Upper

164 100

166 127.0 101.7 152.5

129 102.6 76.9 115.3

131 89.7 74.9 112.3

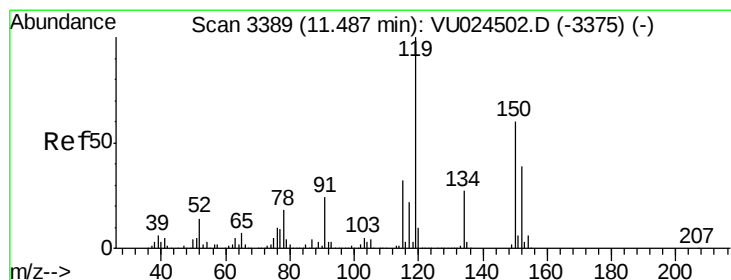
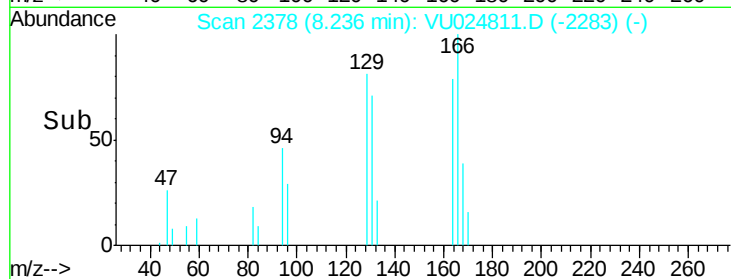
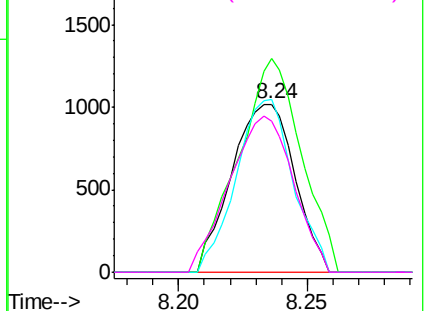


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

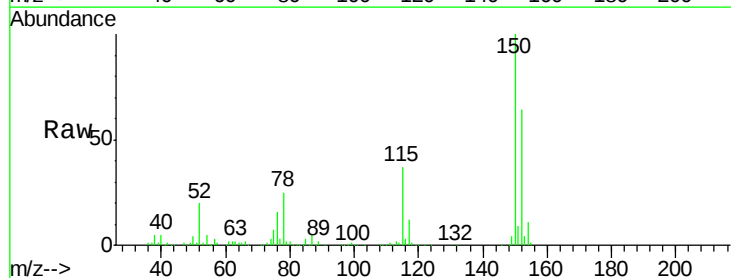
Tgt Ion:152 Resp: 155695

Ion Ratio Lower Upper

152 100

115 56.4 43.0 129.0

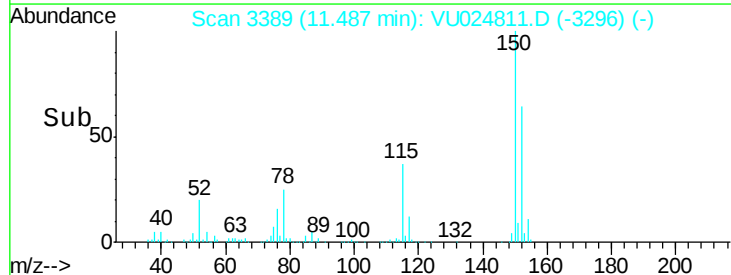
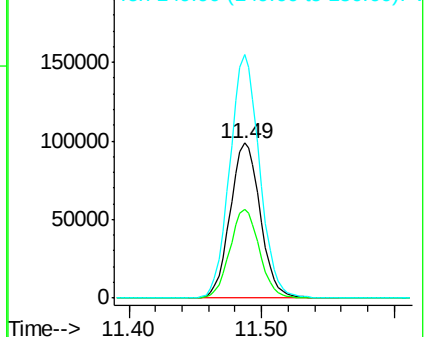
150 155.5 0.0 354.0

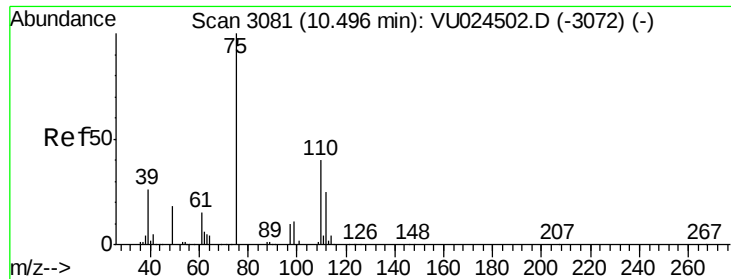


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

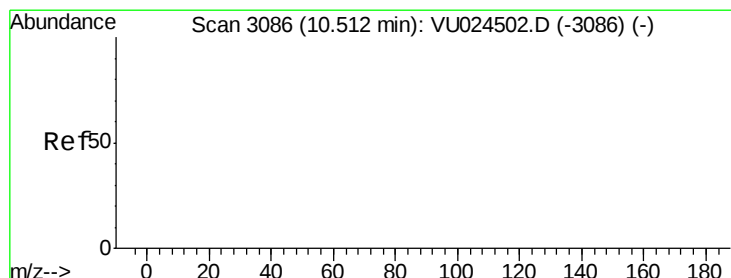
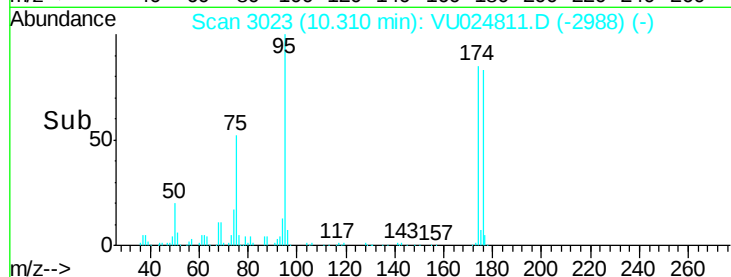
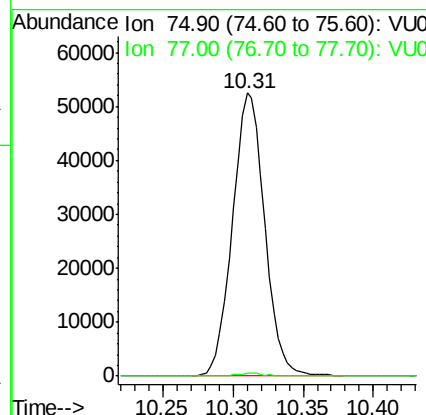
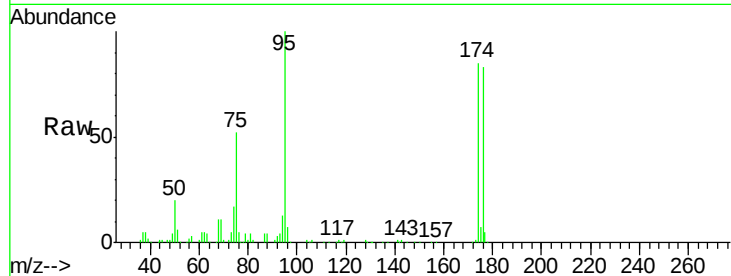




#76
 1,2,3-Trichloropropane
 Concen: 24.459 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.19 min
 Lab File: VU024811.D
 Acq: 21 Jun 2018 15:16

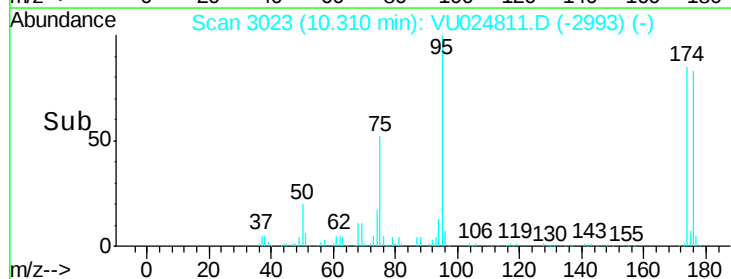
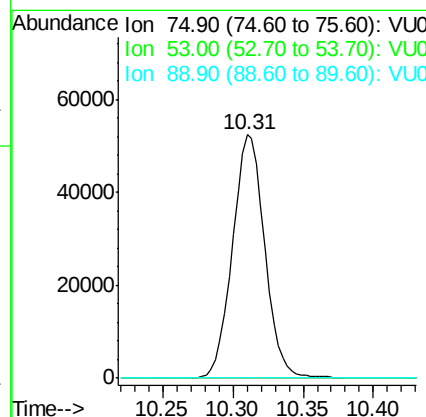
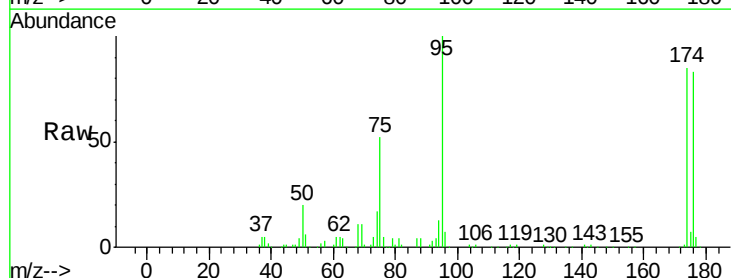
Instrument :
 MSVOA_U
 ClientSampled :
 S39-0181

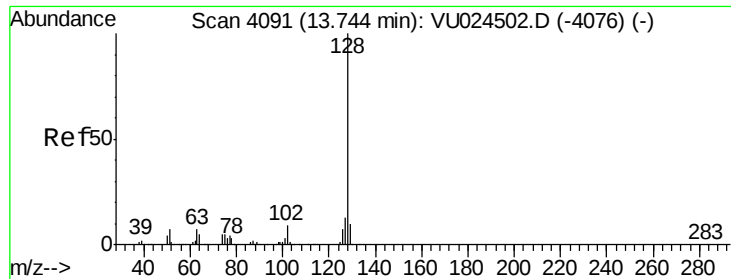
Tot Ion: 75 Resp: 83843
 Ion Ratio Lower Upper
 75 100
 77 0.8 20.9 62.7#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 56.609 ug/l
 RT: 10.31 min Scan# 3023
 Delta R.T. -0.20 min
 Lab File: VU024811.D
 Acq: 21 Jun 2018 15:16

Tgt Ion: 75 Resp: 83843
 Ion Ratio Lower Upper
 75 100
 53 0.0 0.0 0.0
 89 0.0 0.0 0.0





#95

Naphthalene

Concen: 0.700 ug/l

RT: 13.76 min Scan# 4095

Delta R.T. 0.01 min

Lab File: VU024811.D

Acq: 21 Jun 2018 15:16

Instrument :

MSVOA_U

ClientSampleId :

S39-0181

Tot Ion:128 Resp: 246

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.6 12.8#

