

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU070518\
 Data File : VU025205.D
 Acq On : 05 Jul 2018 10:55
 Operator : MD/SY
 Sample : VU0705WBL01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jul 06 05:10:08 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	218723	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	328102	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	298910	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	157139	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	160827	45.04	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.08%	
35) Dibromofluoromethane	4.89	113	129224	47.46	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.92%	
50) Toluene-d8	7.57	98	468115	47.13	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.26%	
62) 4-Bromofluorobenzene	10.31	95	173727	44.05	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.10%	

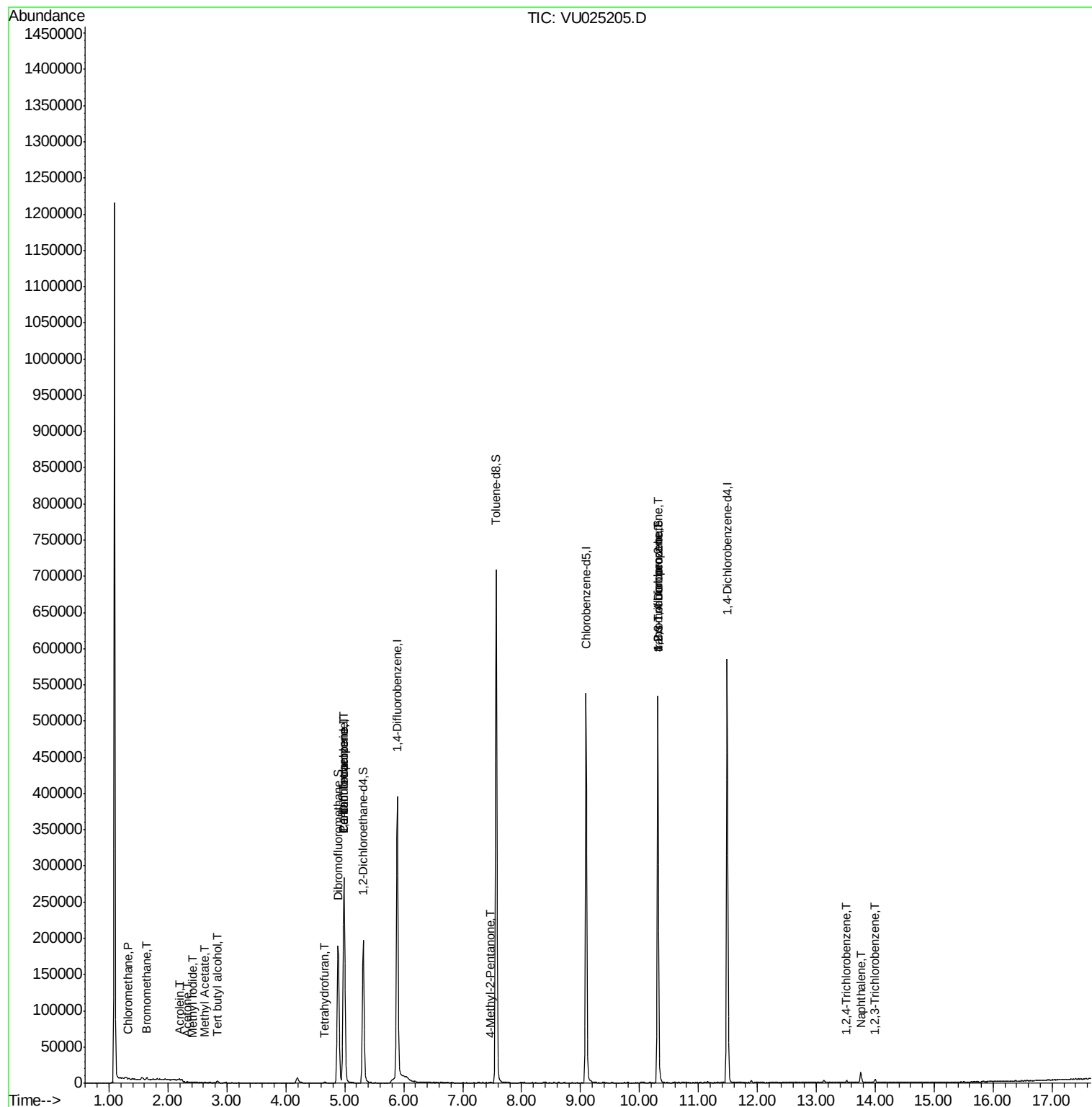
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	709	0.25	ug/l	# 83
5) Bromomethane	1.64	94	772	0.55	ug/l	94
6) Chloroethane	1.71	64	156	Below Cal	#	43
10) Methyl Iodide	2.42	142	721	5.57	ug/l	# 91
11) Tert butyl alcohol	2.84	59	1496	1.72	ug/l	# 72
13) Acrolein	2.19	56	255	0.56	ug/l	# 78
16) Acetone	2.32	43	877	0.46	ug/l	98
18) Methyl Acetate	2.63	43	1316	0.32	ug/l	# 82
29) Tetrahydrofuran	4.66	42	718	0.45	ug/l	# 54
31) Cyclohexane	4.99	56	4076	Below Cal	#	1
36) 1,1-Dichloropropene	4.98	75	15432	4.00	ug/l	# 52
38) Carbon Tetrachloride	4.99	117	21309	5.03	ug/l	# 16
51) 4-Methyl-2-Pentanone	7.46	43	919	0.20	ug/l	# 70
76) 1,2,3-Trichloropropane	10.31	75	90359	26.12	ug/l	# 35
81) trans-1,4-Dichloro-2-buten	10.31	75	90359	60.45	ug/l	# 100
93) 1,2,4-Trichlorobenzene	13.51	180	1411	0.40	ug/l	95
95) Naphthalene	13.75	128	14362	1.91	ug/l	# 91
96) 1,2,3-Trichlorobenzene	13.99	180	2056	0.59	ug/l	90

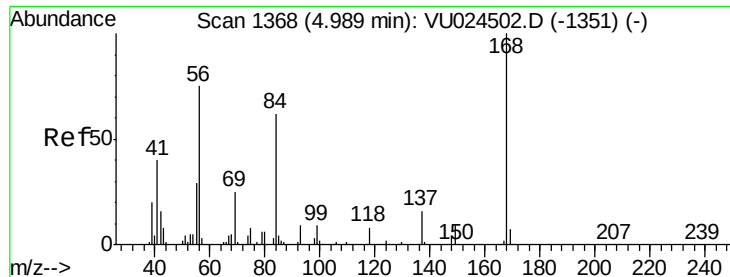
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 05 Jul 2018 10:55
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. 0.00 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

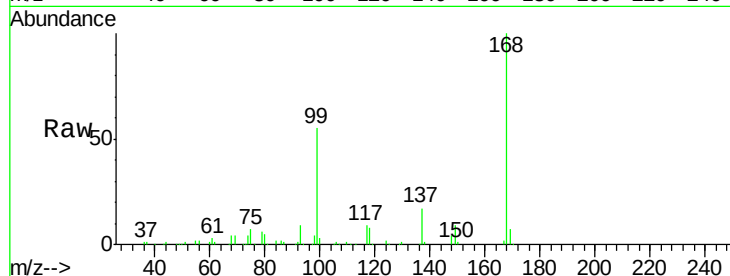
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 218723

Ion Ratio Lower Upper

168 100

99 55.4 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) (-)

4.99

100000

80000

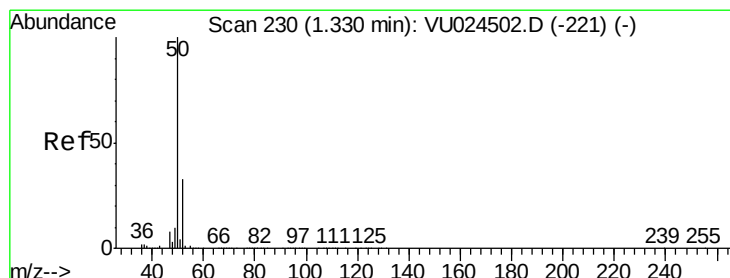
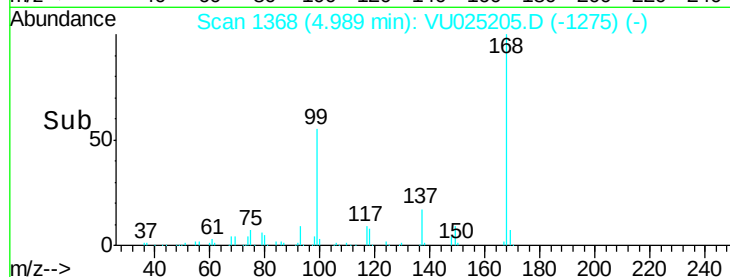
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.25 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU025205.D

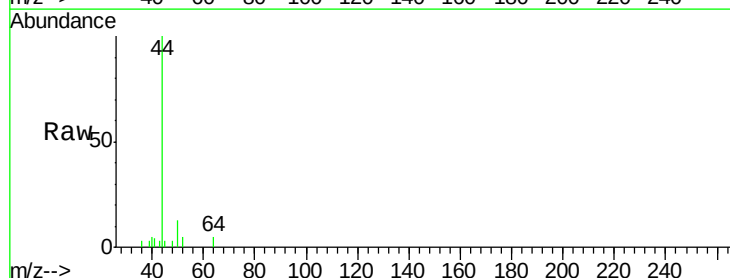
Acq: 05 Jul 2018 10:55

Tgt Ion: 50 Resp: 709

Ion Ratio Lower Upper

50 100

52 42.9 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) (-)

1.33

600

500

400

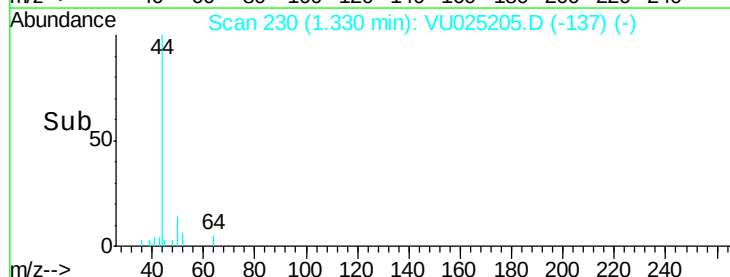
300

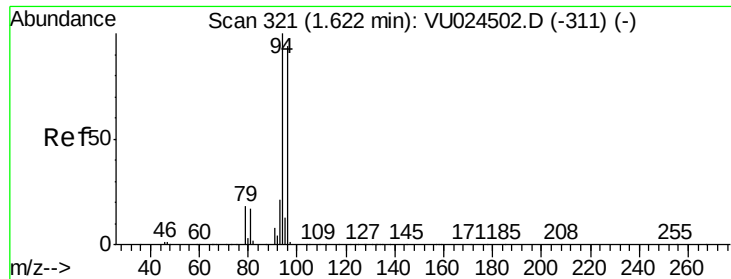
200

100

0

Time-->





#5

Bromomethane

Concen: 0.55 ug/l

RT: 1.64 min Scan# 325

Delta R.T. 0.01 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

Instrument :

MSVOA_U

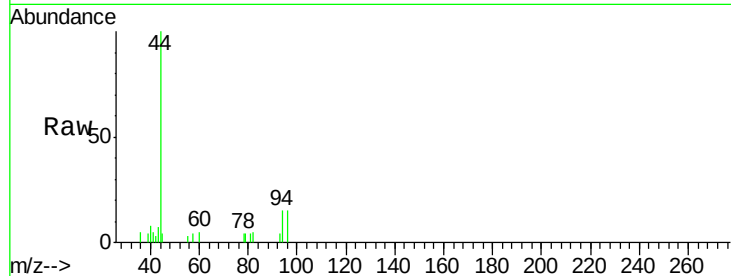
ClientSampled :

Tot Ion: 94 Resp: 772

Ion Ratio Lower Upper

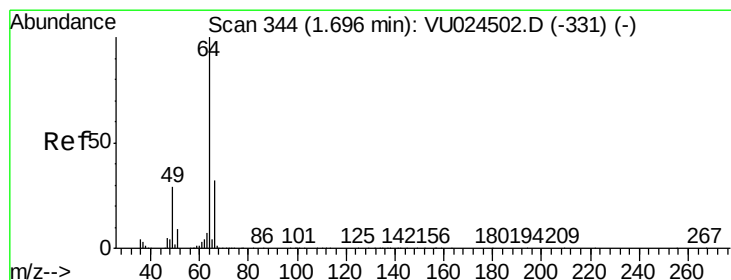
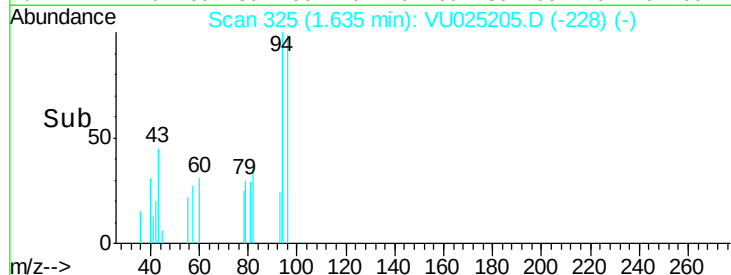
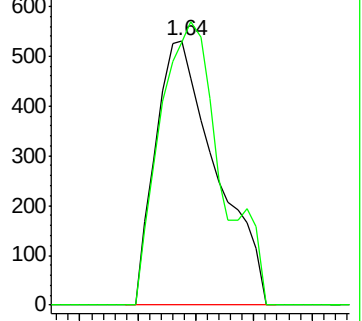
94 100

96 99.2 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU024502.D (-311) (-)

Ion 95.90 (95.60 to 96.60): VU024502.D (-311) (-)



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 349

Delta R.T. 0.02 min

Lab File: VU025205.D

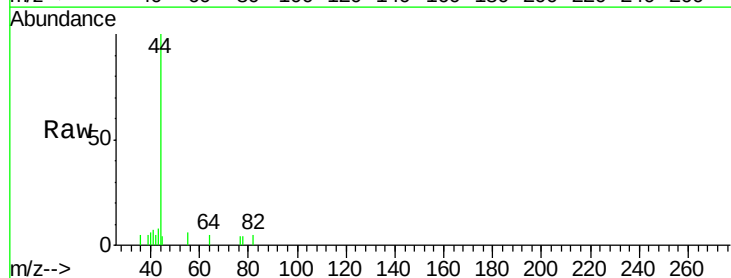
Acq: 05 Jul 2018 10:55

Tgt Ion: 64 Resp: 156

Ion Ratio Lower Upper

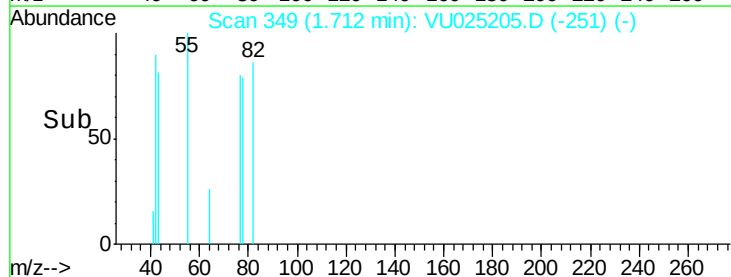
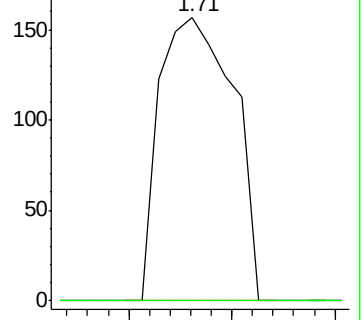
64 100

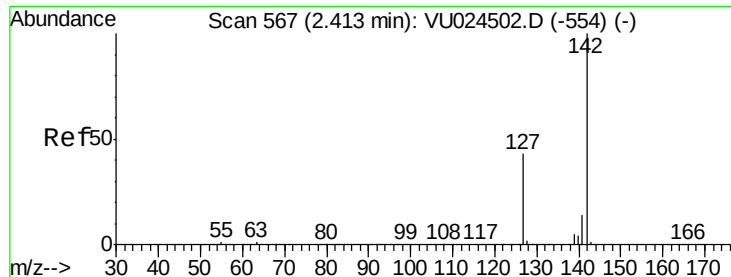
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU024502.D (-331) (-)

Ion 65.90 (65.60 to 66.60): VU024502.D (-331) (-)

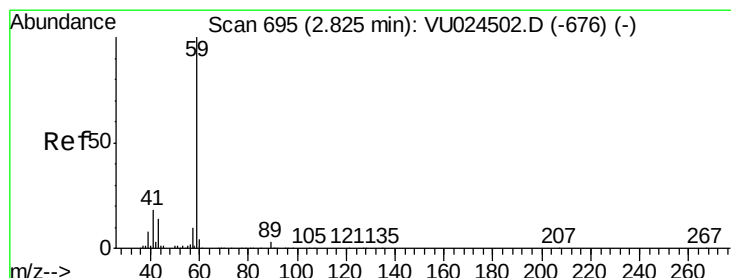
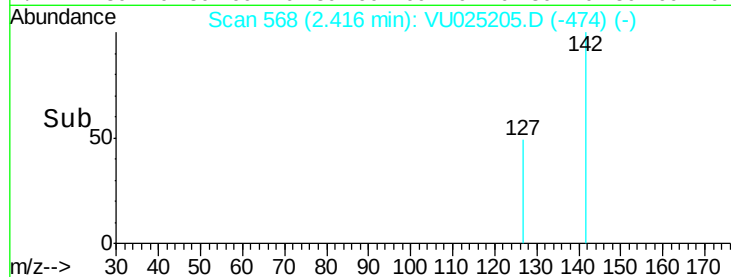
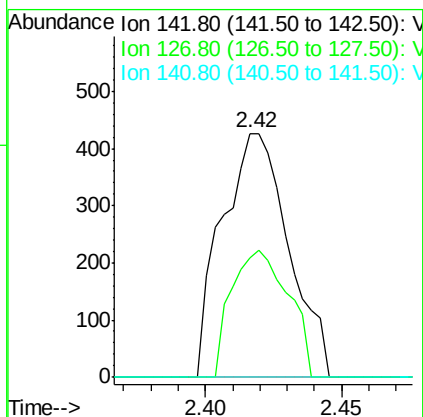
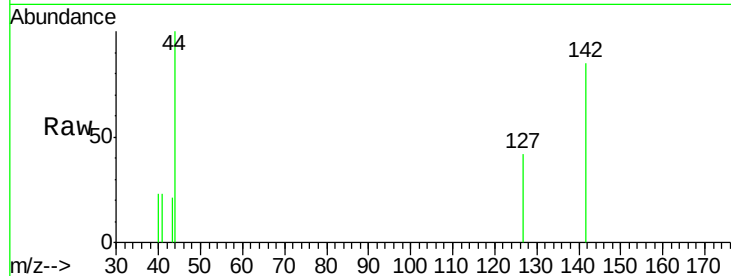




#10
Methvl Iodide
Concen: 5.57 ug/l
RT: 2.42 min Scan# 568
Delta R.T. 0.00 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

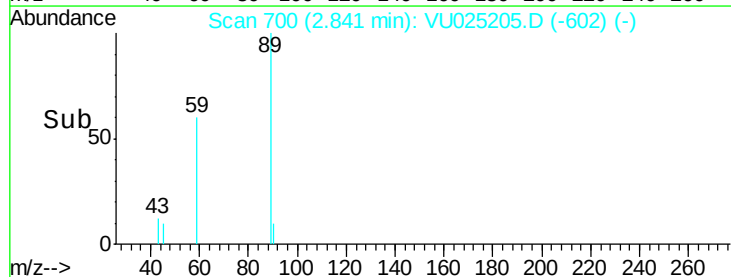
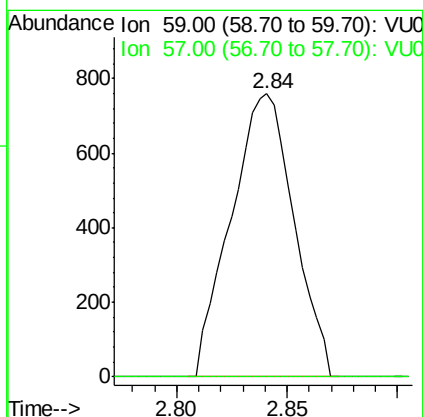
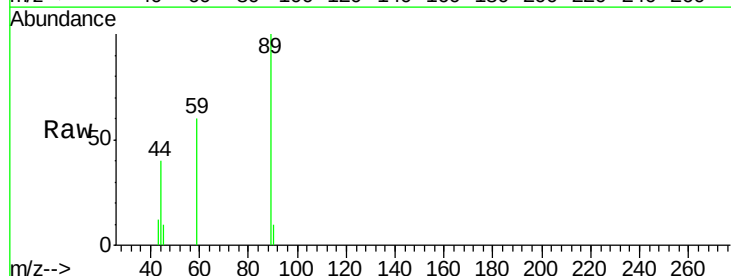
Instrument :
MSVOA_U
ClientSampleId :

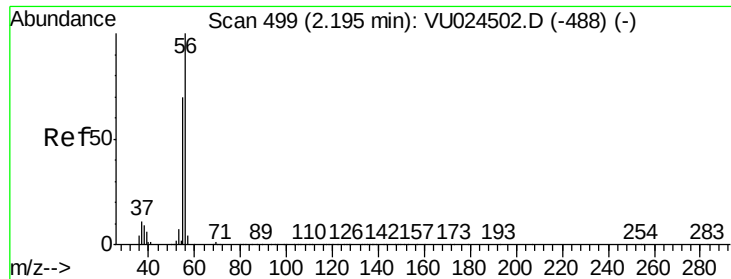
Tot Ion:142 Resp: 721
Ion Ratio Lower Upper
142 100
127 44.8 35.6 53.4
141 0.0 11.7 17.5#



#11
Tert butyl alcohol
Concen: 1.72 ug/l
RT: 2.84 min Scan# 700
Delta R.T. 0.02 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

Tgt Ion: 59 Resp: 1496
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#

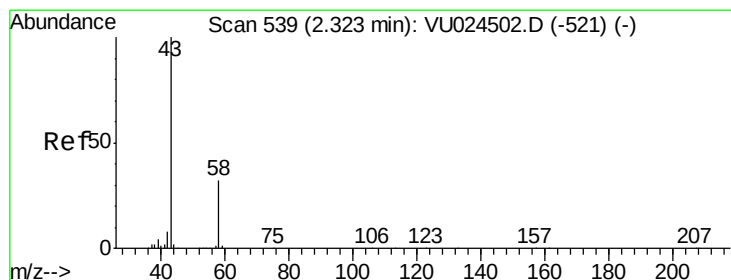
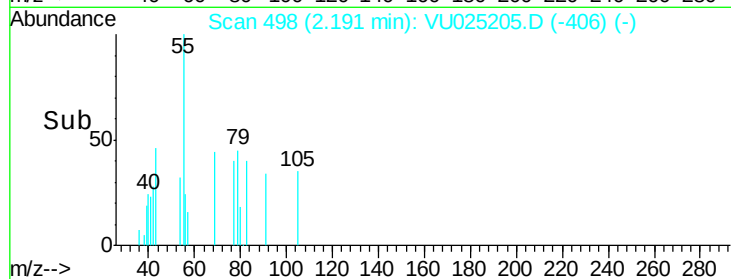
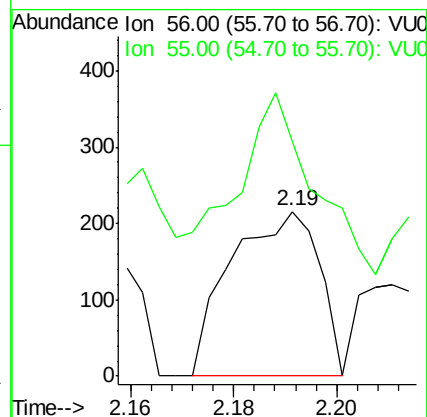
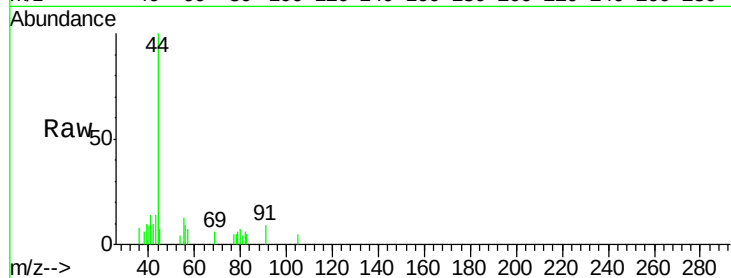




#13
Acrolein
Concen: 0.56 ug/l
RT: 2.19 min Scan# 498
Delta R.T. -0.00 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

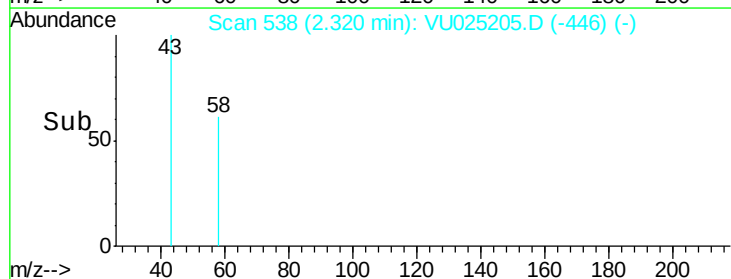
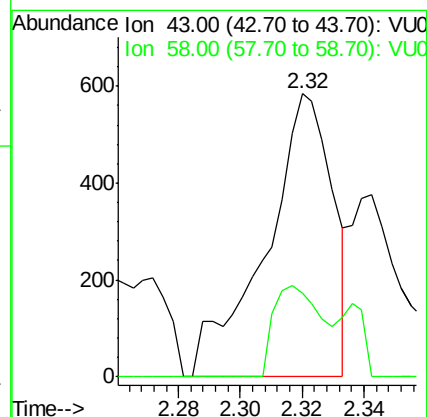
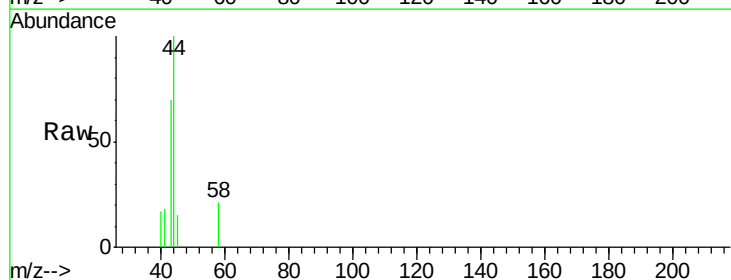
Instrument :
MSVOA_U
ClientSampleId :

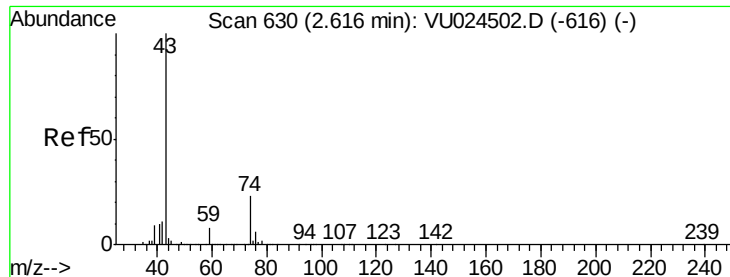
Tot Ion: 56 Resp: 255
Ion Ratio Lower Upper
56 100
55 91.8 58.4 87.6#



#16
Acetone
Concen: 0.46 ug/l
RT: 2.32 min Scan# 538
Delta R.T. -0.00 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

Tgt Ion: 43 Resp: 877
Ion Ratio Lower Upper
43 100
58 29.6 24.4 36.6

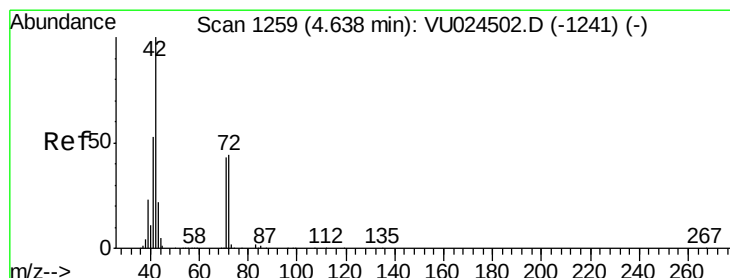
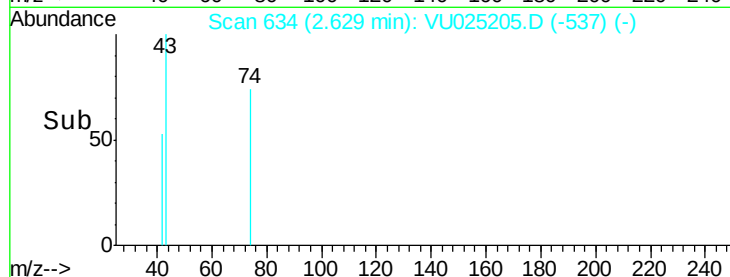
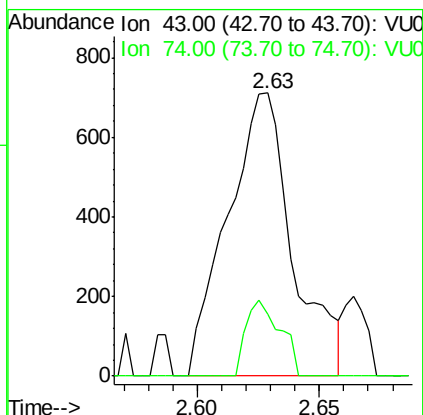
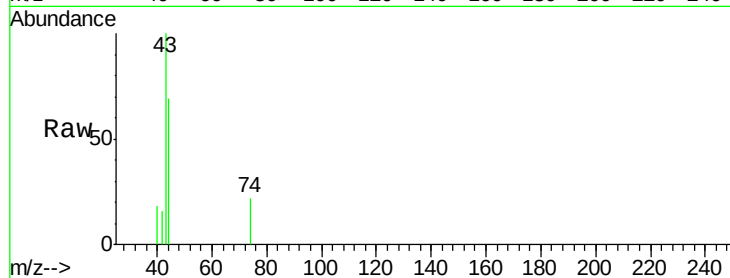




#18
Methvl Acetate
Concen: 0.32 ug/l
RT: 2.63 min Scan# 634
Delta R.T. 0.01 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

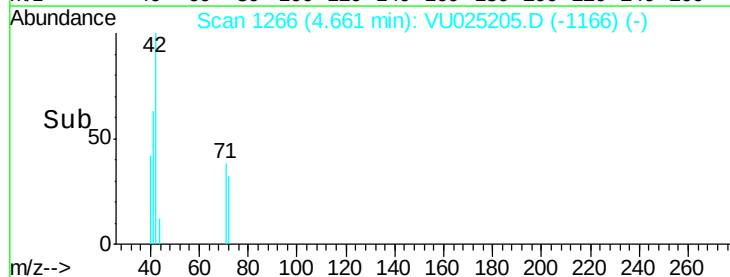
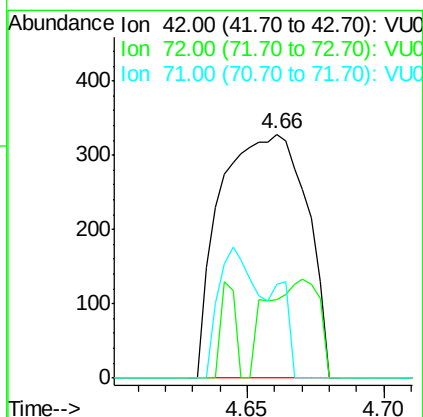
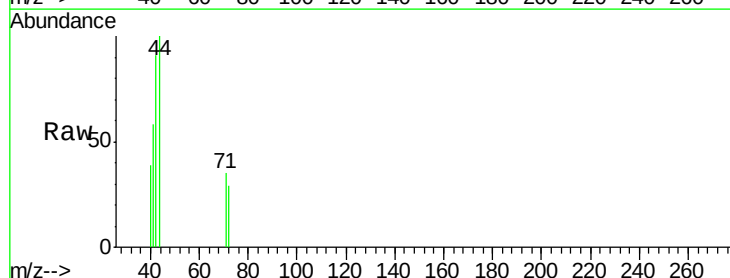
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MSVOA_U
ClientSampleId :

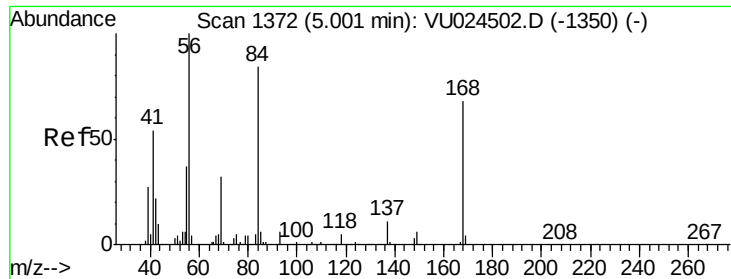
Tot Ion: 43 Resp: 1316
Ion Ratio Lower Upper
43 100
74 14.0 18.0 27.0#



#29
Tetrahydrofuran
Concen: 0.45 ug/l
RT: 4.66 min Scan# 1266
Delta R.T. 0.02 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

Tgt Ion: 42 Resp: 718
Ion Ratio Lower Upper
42 100
72 24.8 34.5 51.7#
71 0.0 32.2 48.4#

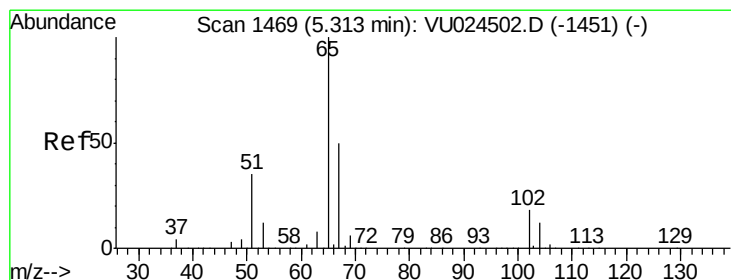
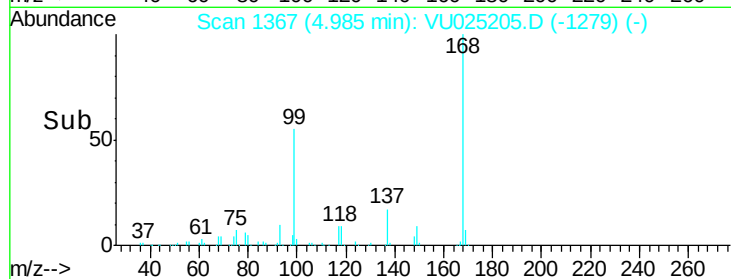
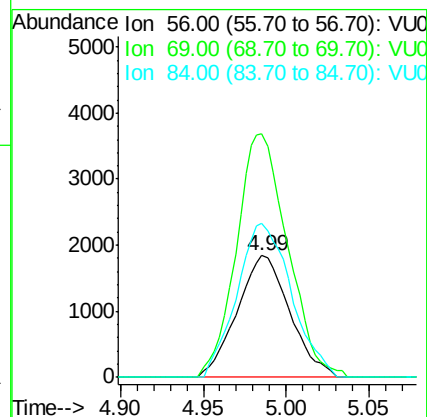
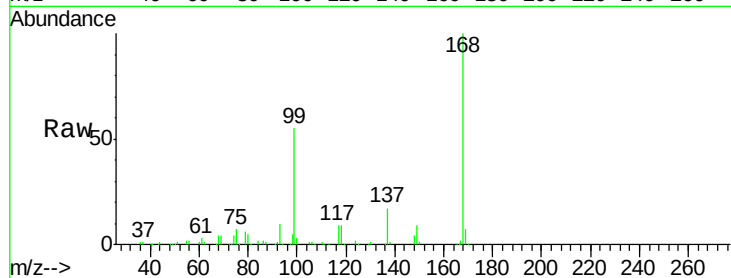




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1367
Delta R.T. -0.02 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

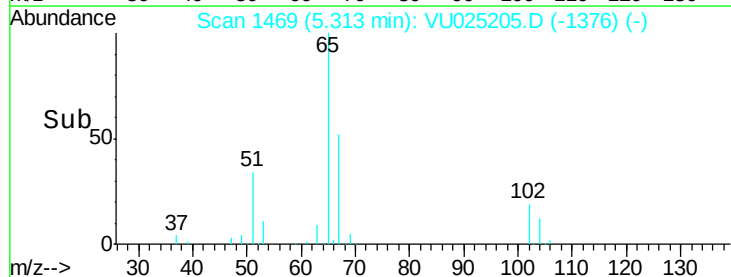
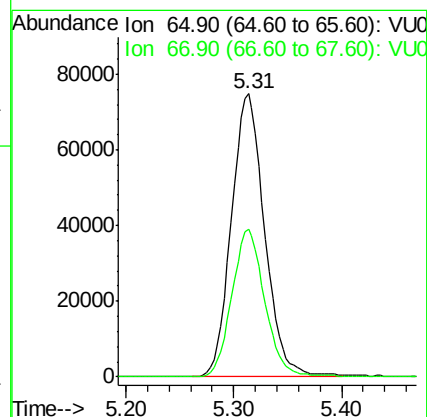
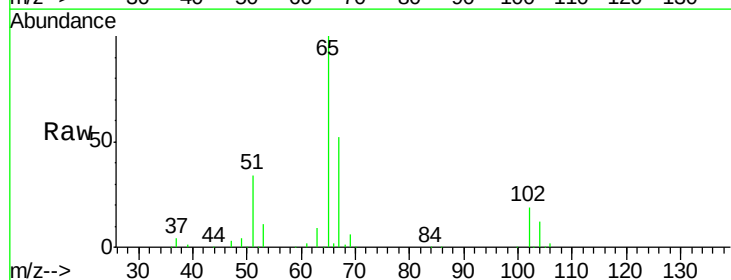
Instrument :
MSVOA_U
ClientSampled :

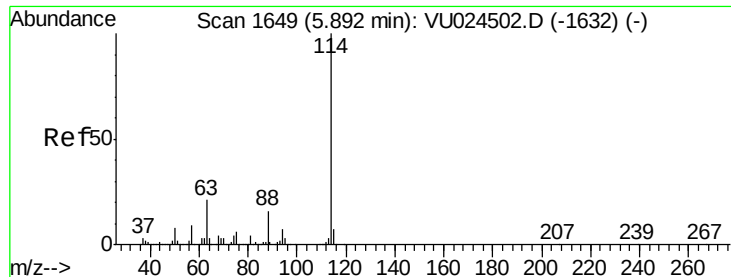
Tot Ion: 56 Resp: 4076
Ion Ratio Lower Upper
56 100
69 200.3 24.8 37.2#
84 126.5 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.04 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

Tgt Ion: 65 Resp: 160827
Ion Ratio Lower Upper
65 100
67 51.6 0.0 107.0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 5.89 min Scan# 1648

Delta R.T. -0.00 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

Instrument :

MSVOA_U

ClientSampleId :

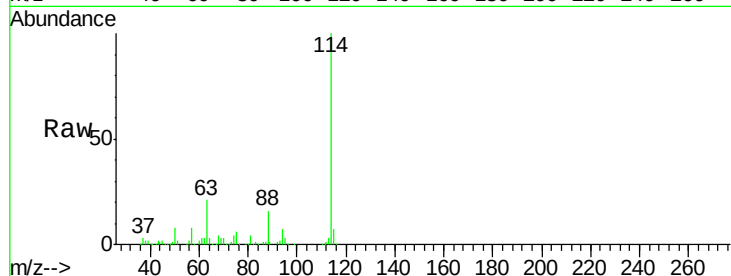
Tot Ion:114 Resp: 328102

Ion Ratio Lower Upper

114 100

63 21.4 0.0 45.4

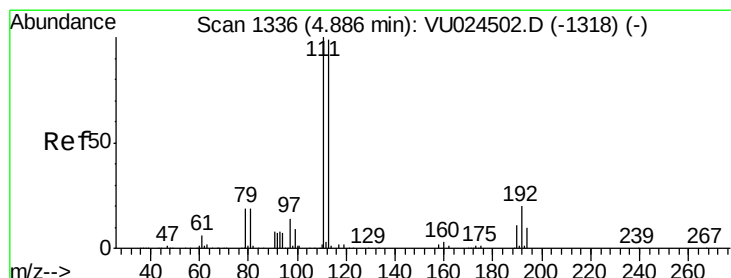
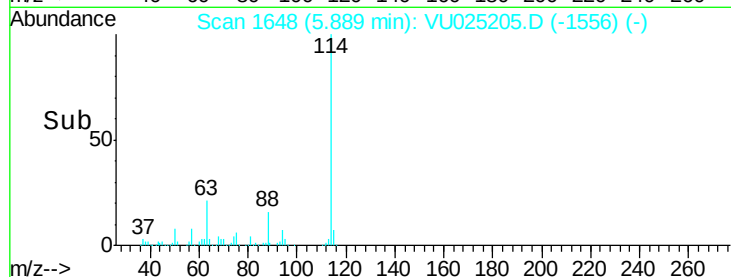
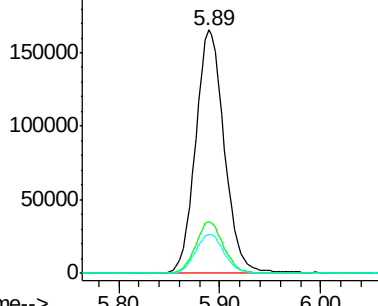
88 16.2 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35

Dibromofluoromethane

Concen: 47.46 ug/l

RT: 4.89 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

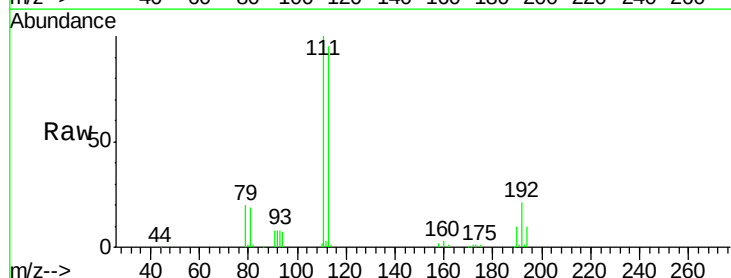
Tgt Ion:113 Resp: 129224

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.4

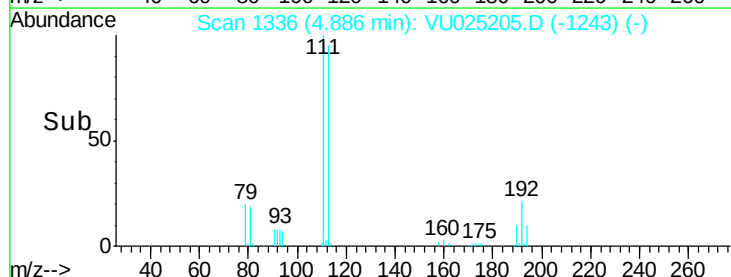
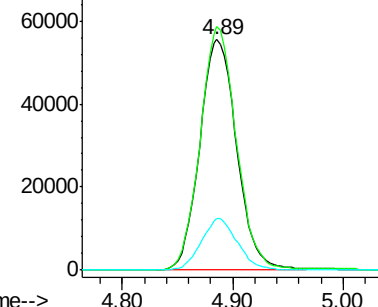
192 21.8 16.2 24.4

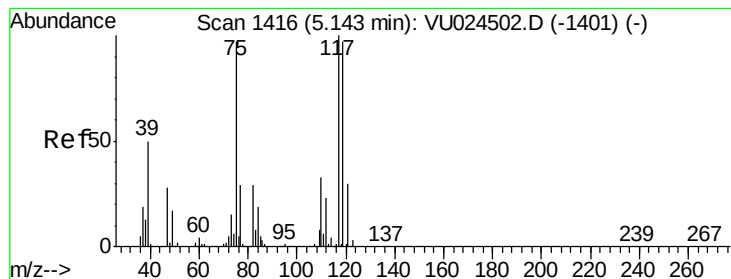


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.00 ug/l

RT: 4.98 min Scan# 1366

Delta R.T. -0.16 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

Instrument :

MSVOA_U

ClientSampled :

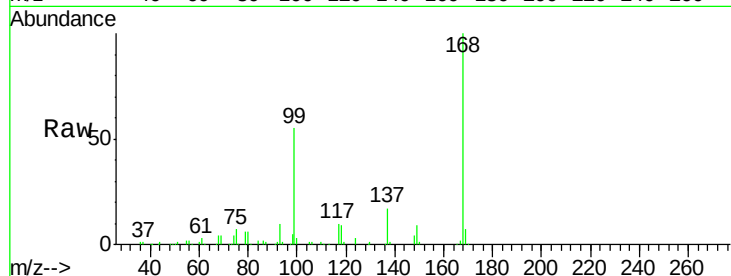
Tot Ion: 75 Resp: 15432

Ion Ratio Lower Upper

75 100

110 9.9 17.0 50.9#

77 0.0 24.2 36.4#

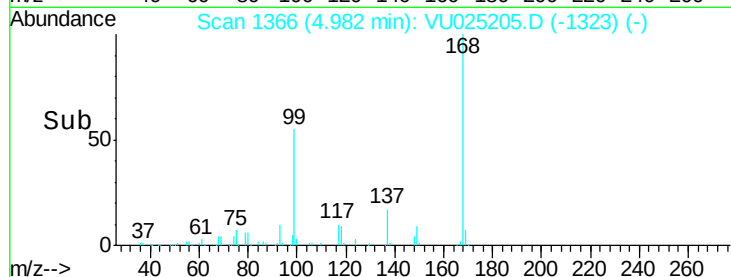


Abundance Ion 74.90 (74.60 to 75.60): VU025205.D (-1366) (-)

Ion 109.90 (109.60 to 110.60): VU025205.D (-1366) (-)

Ion 76.90 (76.60 to 77.60): VU025205.D (-1366) (-)

Time-->

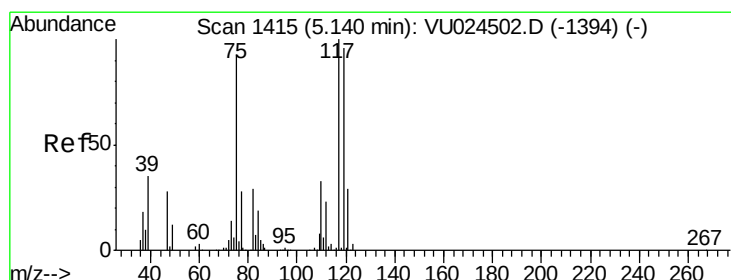


Abundance Ion 74.90 (74.60 to 75.60): VU025205.D (-1366) (-)

Ion 109.90 (109.60 to 110.60): VU025205.D (-1366) (-)

Ion 76.90 (76.60 to 77.60): VU025205.D (-1366) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 5.03 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.15 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

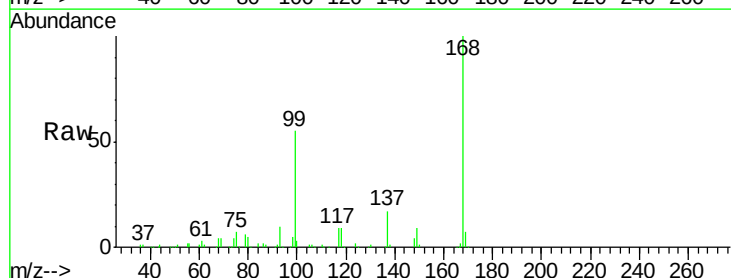
Tgt Ion: 117 Resp: 21309

Ion Ratio Lower Upper

117 100

119 4.5 76.1 114.1#

121 0.0 23.7 35.5#

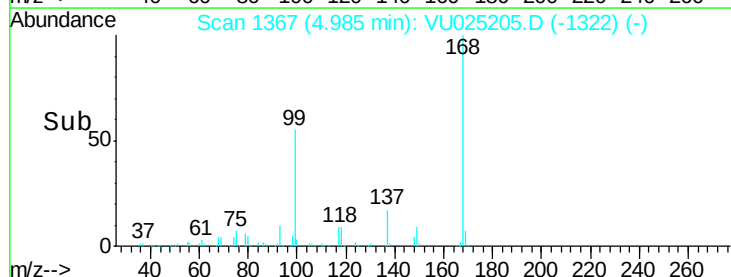


Abundance Ion 116.80 (116.50 to 117.50): VU025205.D (-1367) (-)

Ion 118.80 (118.50 to 119.50): VU025205.D (-1367) (-)

Ion 120.80 (120.50 to 121.50): VU025205.D (-1367) (-)

Time-->

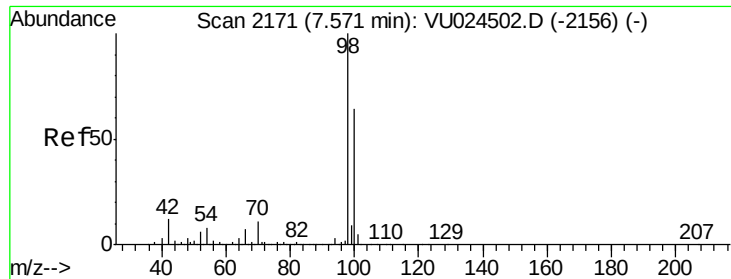


Abundance Ion 116.80 (116.50 to 117.50): VU025205.D (-1367) (-)

Ion 118.80 (118.50 to 119.50): VU025205.D (-1367) (-)

Ion 120.80 (120.50 to 121.50): VU025205.D (-1367) (-)

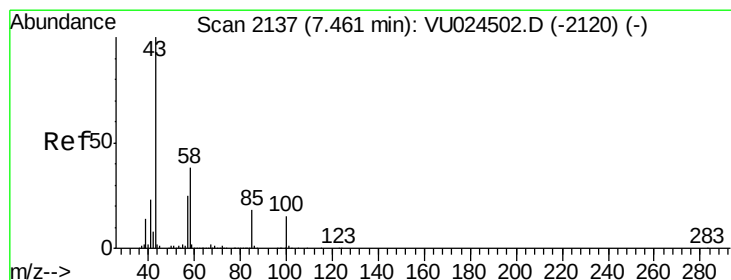
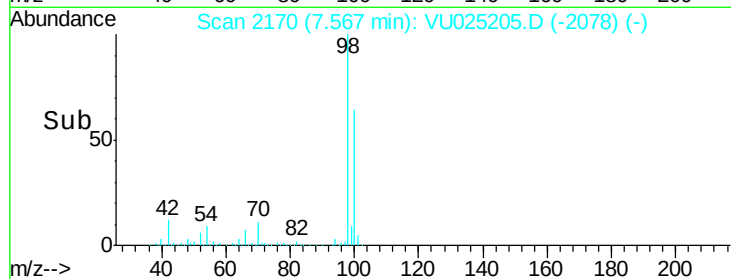
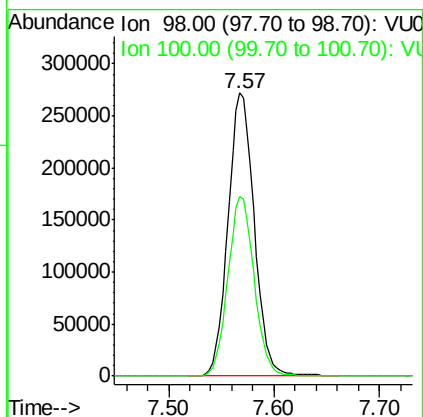
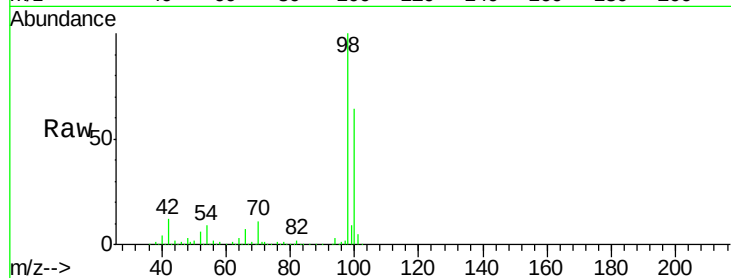
Time-->



#50
Toluene-d8
Concen: 47.13 ug/l
RT: 7.57 min Scan# 2170
Delta R.T. -0.00 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

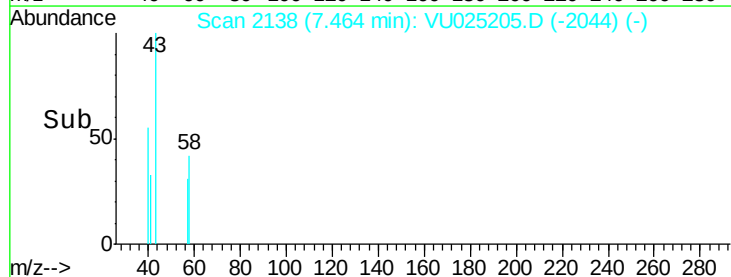
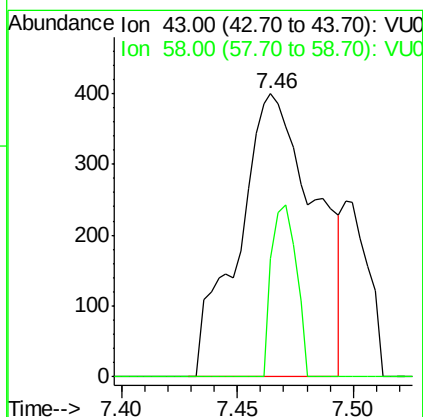
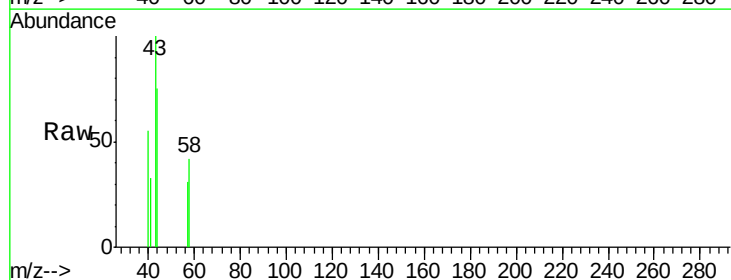
Instrument :
MSVOA_U
ClientSampled :

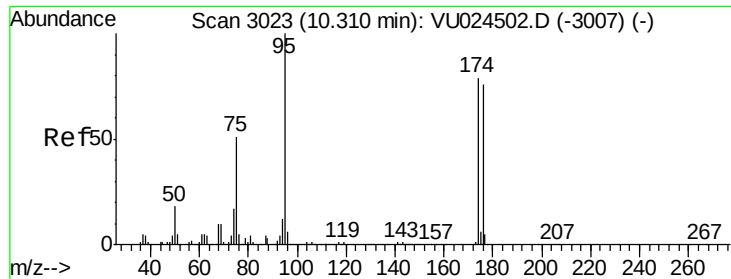
Tot Ion: 98 Resp: 468115
Ion Ratio Lower Upper
98 100
100 63.4 51.1 76.7



#51
4-Methyl-2-Pentanone
Concen: 0.20 ug/l
RT: 7.46 min Scan# 2138
Delta R.T. 0.00 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

Tgt Ion: 43 Resp: 919
Ion Ratio Lower Upper
43 100
58 19.6 30.0 45.0#

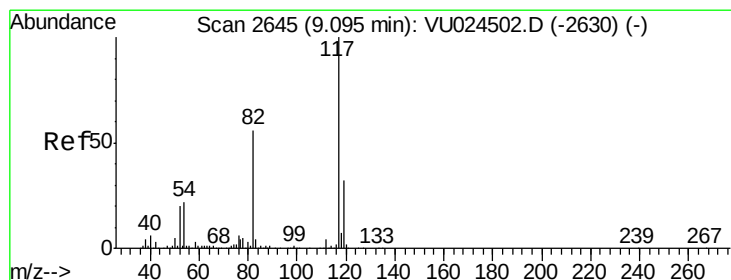
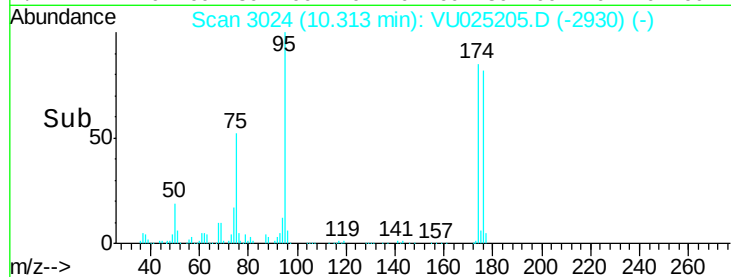
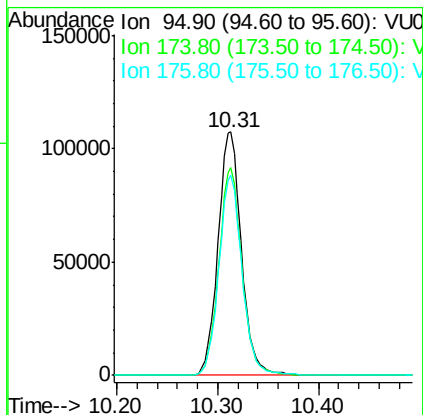
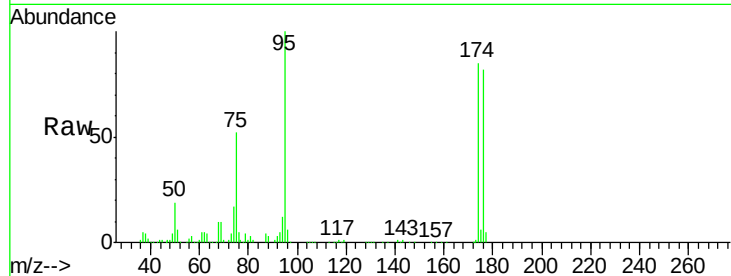




#62
4-Bromofluorobenzene
Concen: 44.05 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

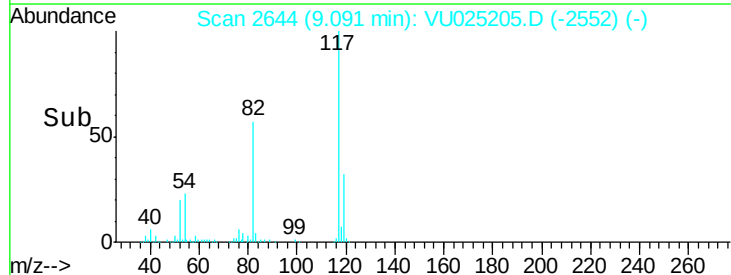
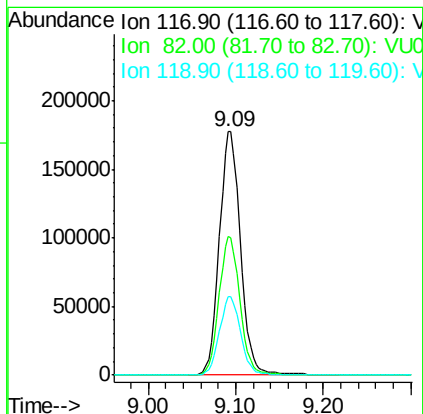
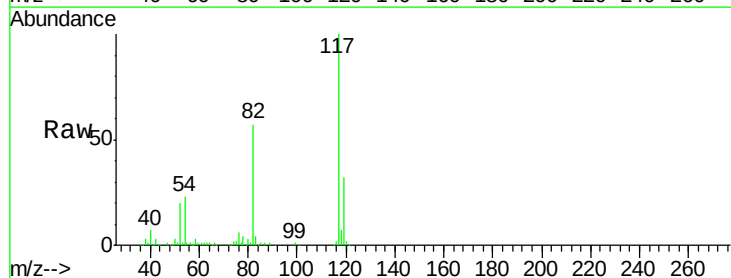
Instrument :
MSVOA_U
ClientSampleId :

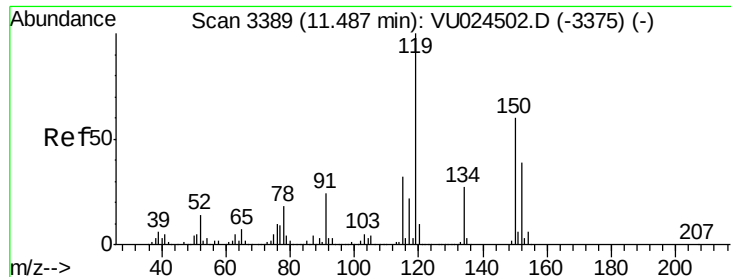
Tot Ion: 95 Resp: 173727
Ion Ratio Lower Upper
95 100
174 84.3 0.0 165.8
176 81.9 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

Tgt Ion: 117 Resp: 298910
Ion Ratio Lower Upper
117 100
82 57.0 44.3 66.5
119 32.1 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. 0.00 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

Instrument :

MSVOA_U

ClientSampleId :

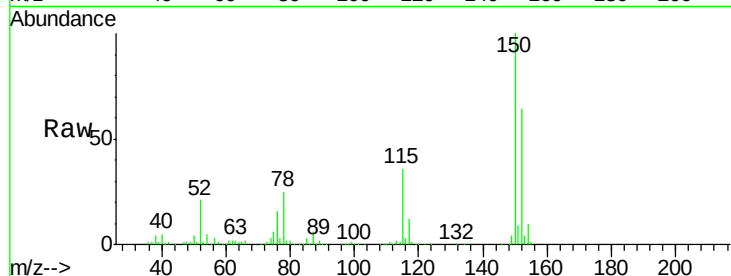
Tot Ion:152 Resp: 157139

Ion Ratio Lower Upper

152 100

115 57.5 43.0 129.0

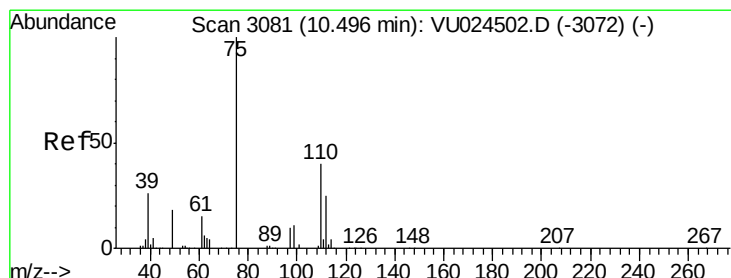
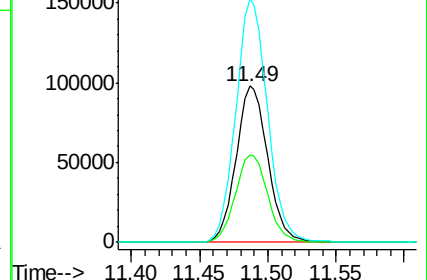
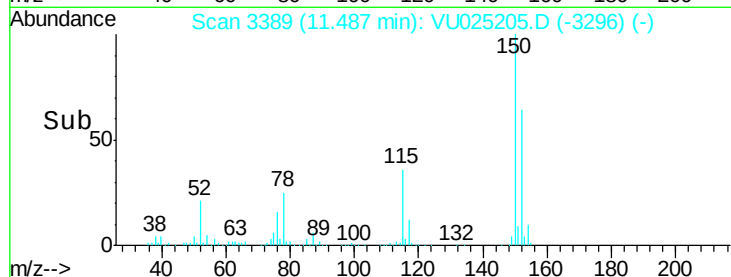
150 156.6 0.0 354.0



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: 26.12 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.18 min

Lab File: VU025205.D

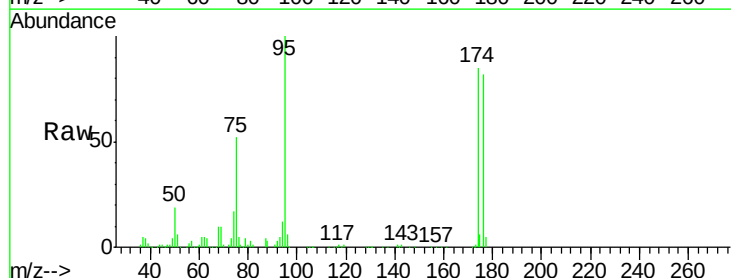
Acq: 05 Jul 2018 10:55

Tgt Ion: 75 Resp: 90359

Ion Ratio Lower Upper

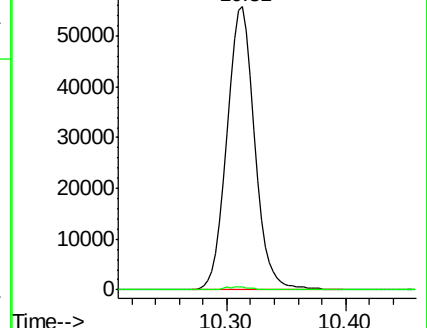
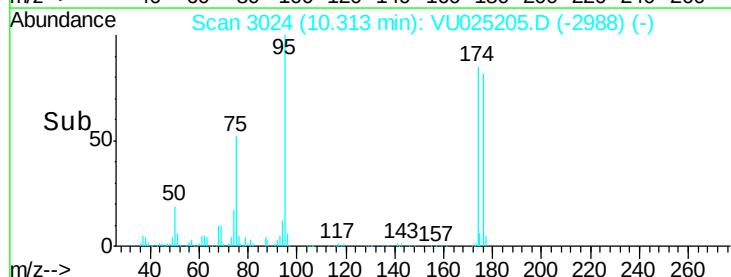
75 100

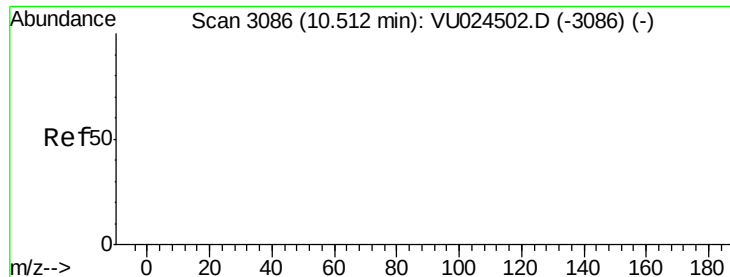
77 1.1 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

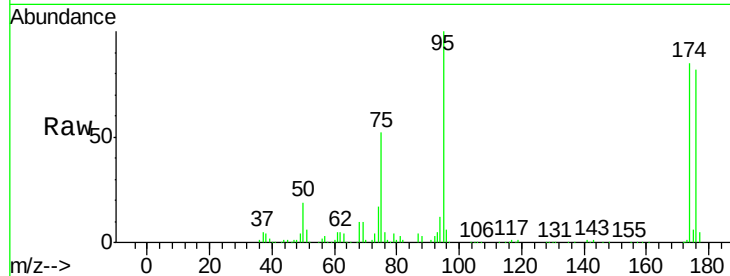




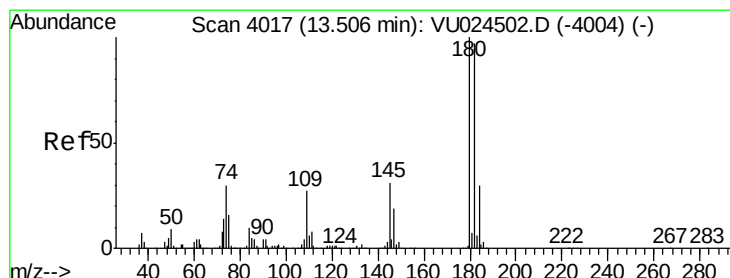
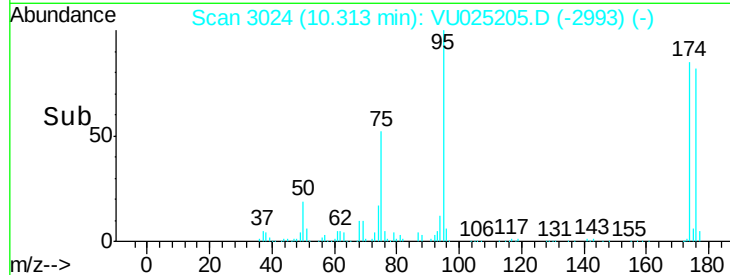
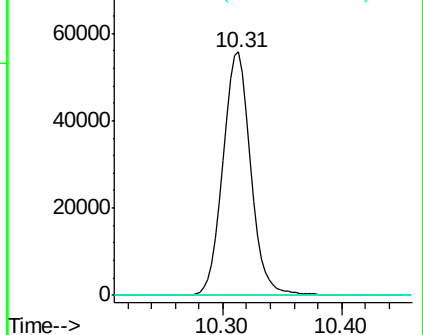
#81
trans-1,4-Dichloro-2-butene
Concen: 60.45 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. -0.20 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 90359
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0

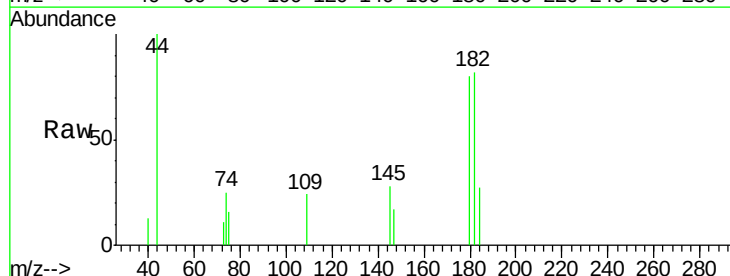


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0

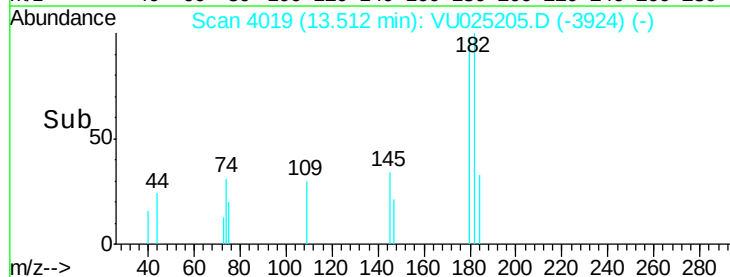
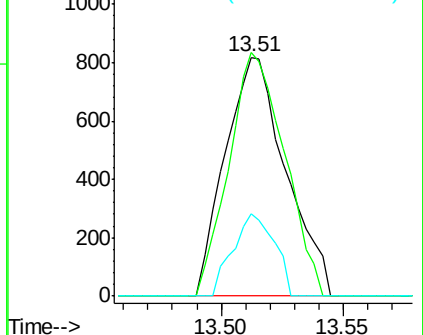


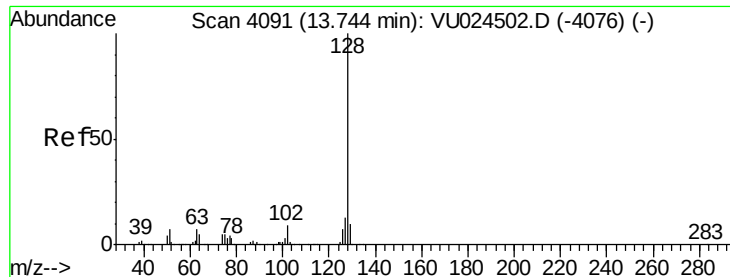
#93
1,2,4-Trichlorobenzene
Concen: 0.40 ug/l
RT: 13.51 min Scan# 4019
Delta R.T. 0.01 min
Lab File: VU025205.D
Acq: 05 Jul 2018 10:55

Tgt Ion:180 Resp: 1411
Ion Ratio Lower Upper
180 100
182 93.3 48.0 144.2
145 23.6 14.7 44.1



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 1.91 ug/l

RT: 13.75 min Scan# 4094

Delta R.T. 0.01 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

Instrument :

MSVOA_U

ClientSampled :

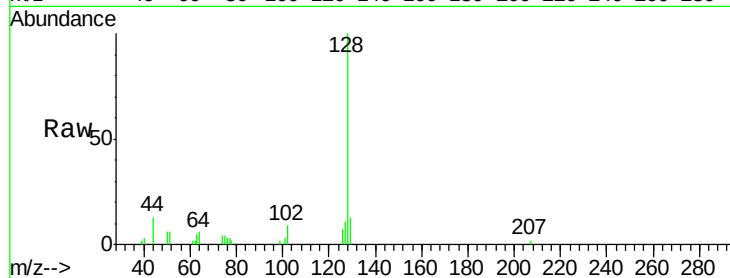
Tot Ion:128 Resp: 14362

Ion Ratio Lower Upper

128 100

127 7.3 10.6 16.0#

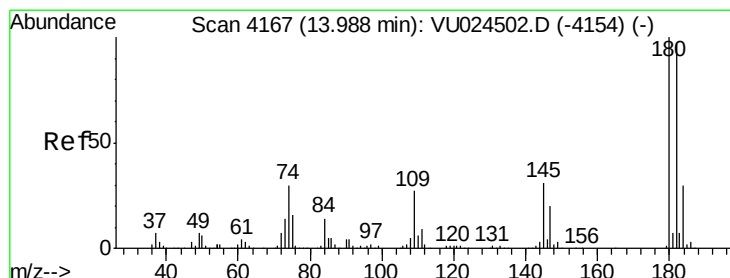
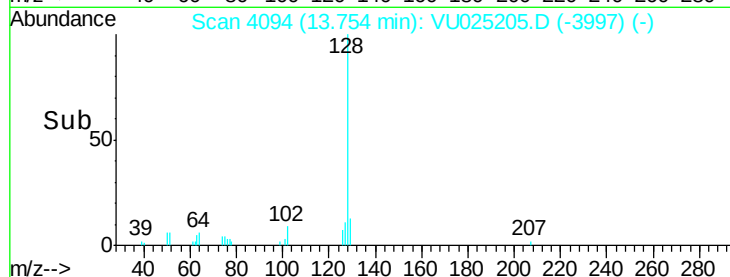
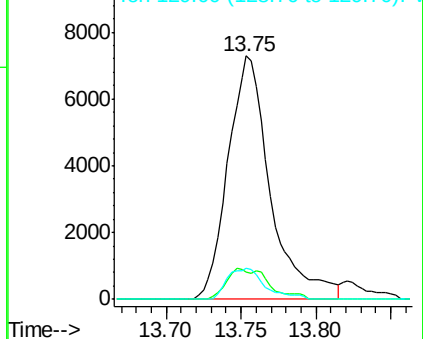
129 11.2 8.6 12.8



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: 0.59 ug/l

RT: 13.99 min Scan# 4169

Delta R.T. 0.01 min

Lab File: VU025205.D

Acq: 05 Jul 2018 10:55

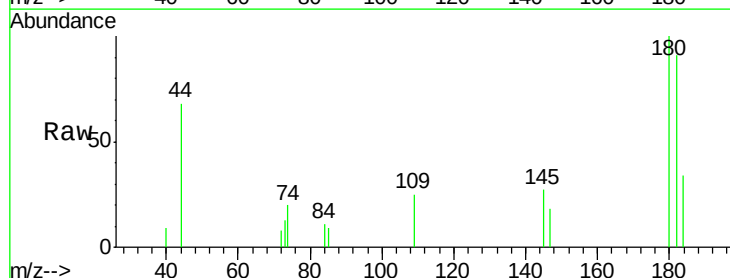
Tgt Ion:180 Resp: 2056

Ion Ratio Lower Upper

180 100

182 87.8 47.9 143.7

145 21.5 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

