

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024536.D
 Acq On : 14 Jun 2018 13:48
 Operator : MD/SY
 Sample : J3443-01
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 01:34:15 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	191914	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	324284	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	306913	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	178154	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	5.32	65	142694	45.54	ug/l	0.00
Spiked Amount			Recovery	=	91.08%	
35) Dibromofluoromethane	4.89	113	128719	47.83	ug/l	0.00
Spiked Amount			Recovery	=	95.66%	
50) Toluene-d8	7.57	98	472140	48.10	ug/l	0.00
Spiked Amount			Recovery	=	96.20%	
62) 4-Bromofluorobenzene	10.31	95	182249	46.76	ug/l	0.00
Spiked Amount			Recovery	=	93.52%	

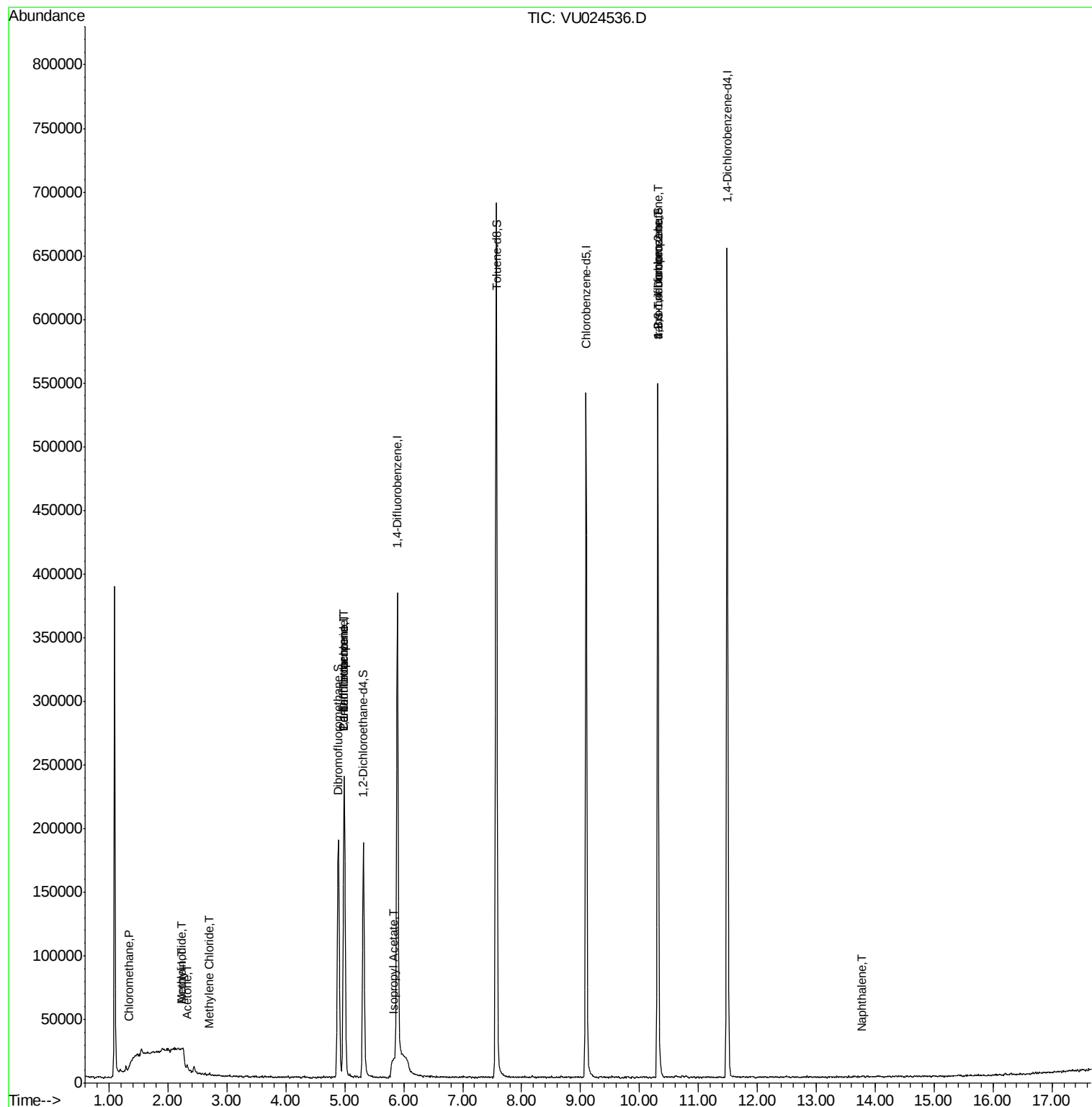
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	508	0.207	ug/l	99
6) Chloroethane	1.69	64	85	Below Cal		90
8) Diethyl Ether	2.09	74	93	Below Cal		79
10) Methyl Iodide	2.22	142	41	5.307	ug/l #	1
13) Acrolein	2.24	56	167	0.417	ug/l #	13
16) Acetone	2.33	43	3815	2.266	ug/l	94
20) Methylene Chloride	2.70	84	976	0.370	ug/l #	70
31) Cyclohexane	4.99	56	3765	Below Cal	#	1
36) 1,1-Dichloropropene	4.99	75	12888	3.382	ug/l #	48
38) Carbon Tetrachloride	4.99	117	17556	4.190	ug/l #	17
43) Isopropyl Acetate	5.82	43	14440	2.011	ug/l #	62
76) 1,2,3-Trichloropropane	10.31	75	91286	23.274	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	91286	53.865	ug/l #	100
95) Naphthalene	13.77	128	300	0.702	ug/l #	69

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

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QLast Update : Wed Jun 13 13:55:26 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

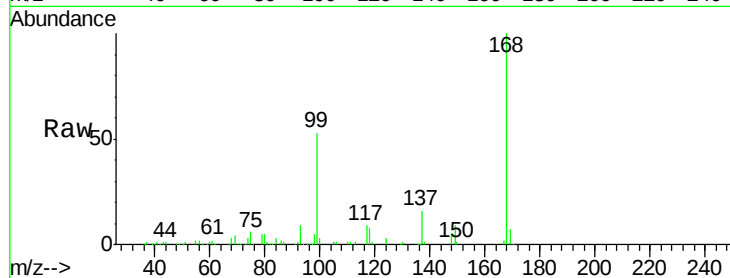
Instrument :
MSVOA_U
ClientSampled :

Tot Ion:168 Resp: 191914

Ion Ratio Lower Upper

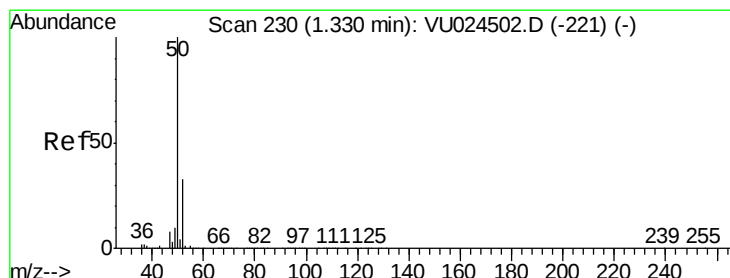
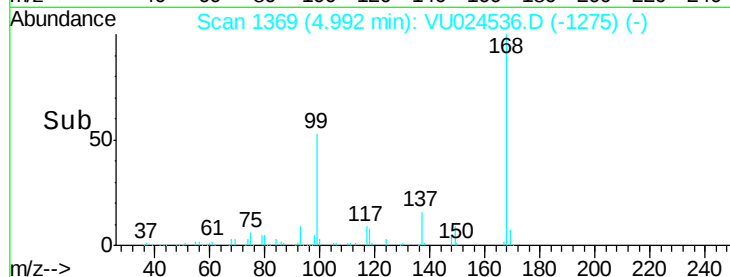
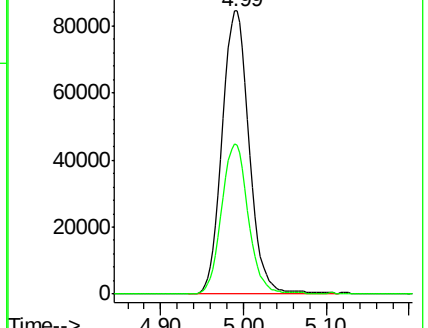
168 100

99 52.8 43.2 64.8



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

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



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024536.D

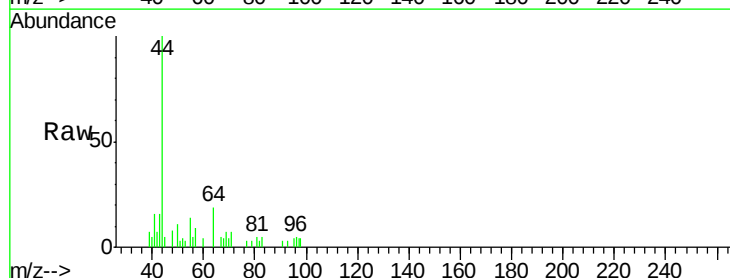
Acq: 14 Jun 2018 13:48

Tgt Ion: 50 Resp: 508

Ion Ratio Lower Upper

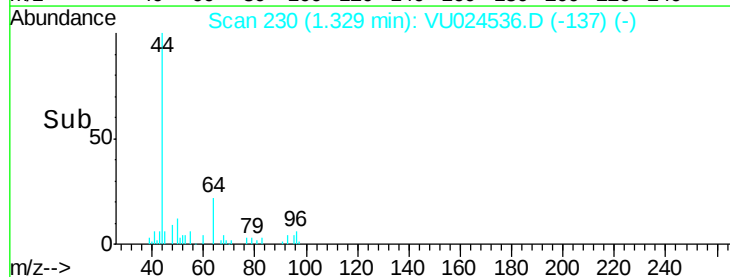
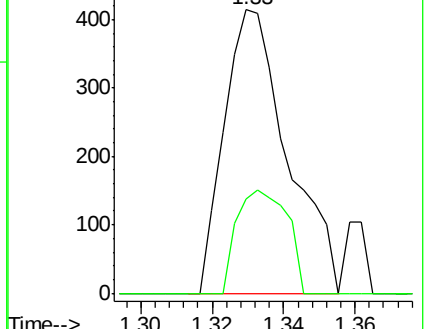
50 100

52 33.3 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) (-)





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 342

Delta R.T. -0.01 min

Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

Instrument :

MSVOA_U

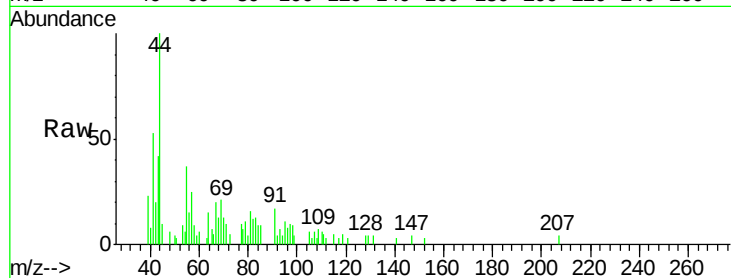
ClientSampled :

Tot Ion: 64 Resp: 85

Ion Ratio Lower Upper

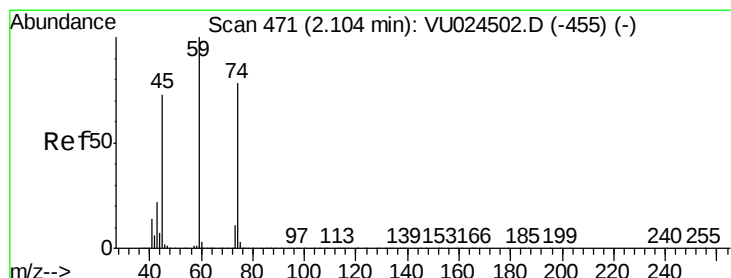
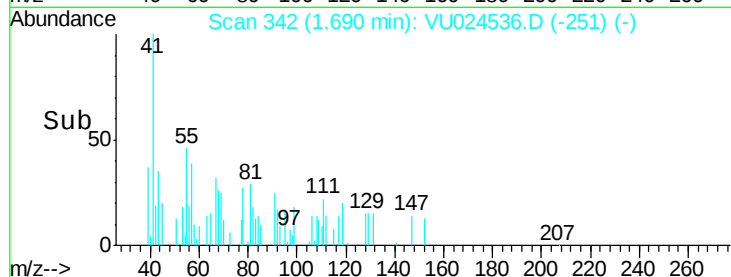
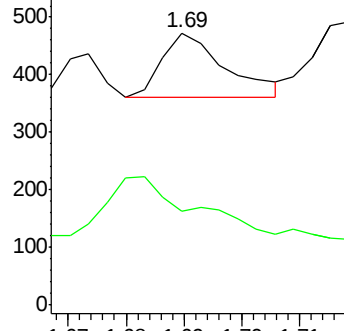
64 100

66 37.5 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: 2.09 min Scan# 468

Delta R.T. -0.01 min

Lab File: VU024536.D

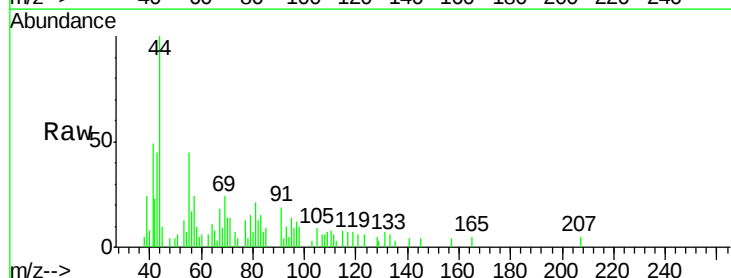
Acq: 14 Jun 2018 13:48

Tgt Ion: 74 Resp: 93

Ion Ratio Lower Upper

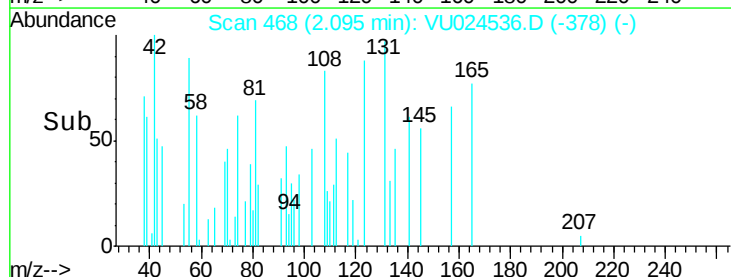
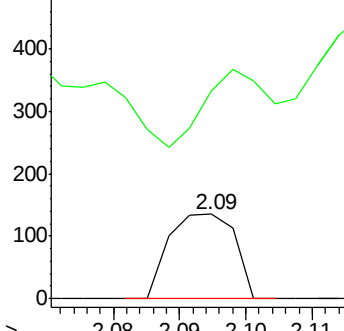
74 100

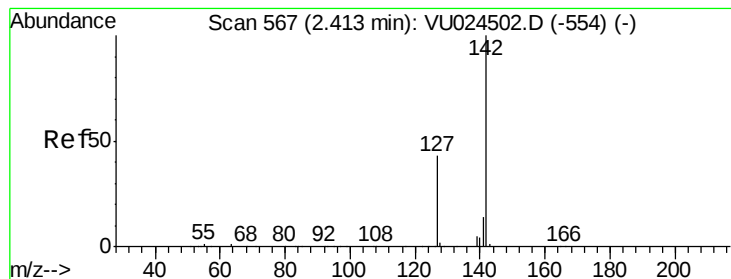
45 88.2 55.0 165.0



Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0





#10

Methyl Iodide

Concen: 5.307 ug/l

RT: 2.22 min Scan# 507

Delta R.T. -0.19 min

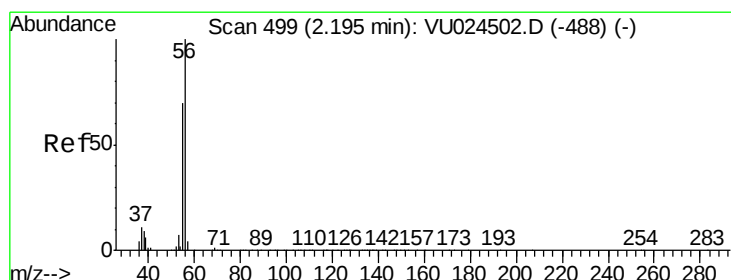
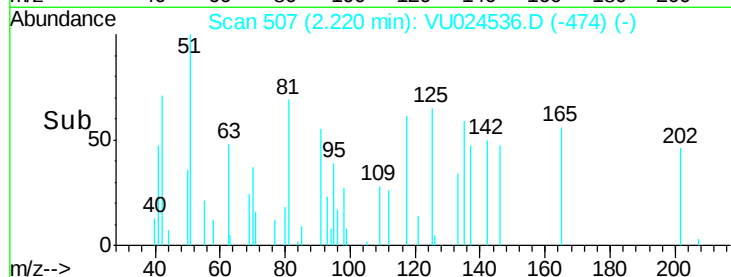
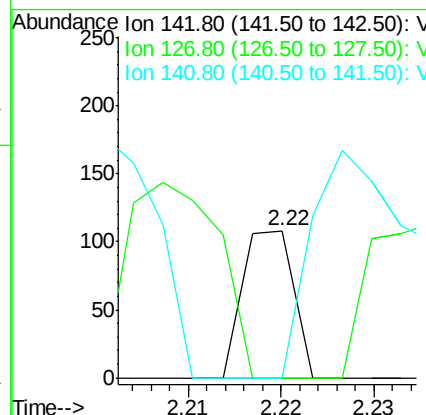
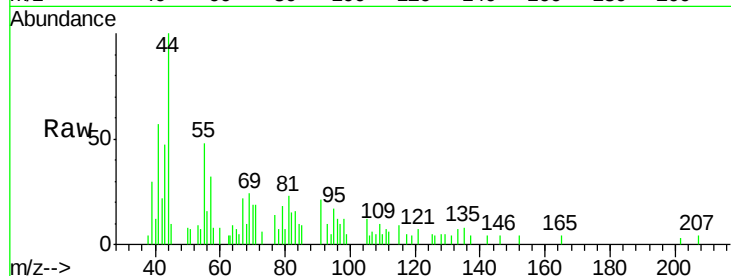
Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:142 Resp: 41

Ion	Ratio	Lower	Upper
142	100		
127	209.8	35.6	53.4#
141	407.3	11.7	17.5#



#13

Acrolein

Concen: 0.417 ug/l

RT: 2.24 min Scan# 512

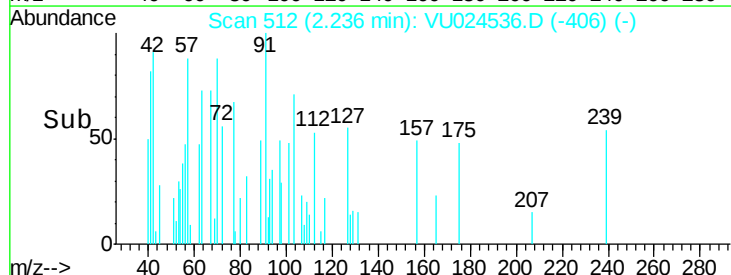
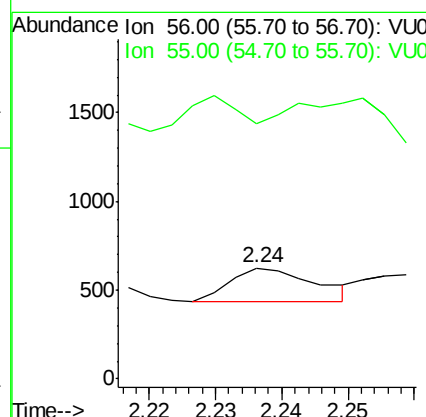
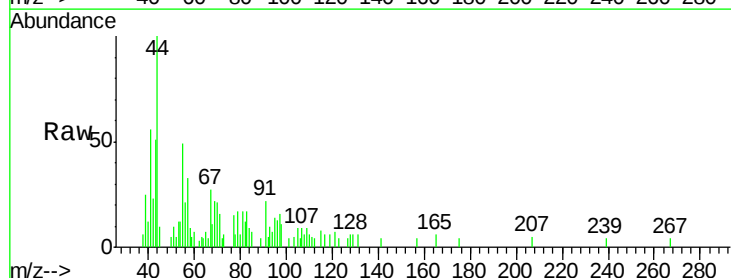
Delta R.T. 0.04 min

Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

Tgt Ion: 56 Resp: 167

Ion	Ratio	Lower	Upper
56	100		
55	0.0	58.4	87.6#





#16

Acetone

Concen: 2.266 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

Instrument :

MSVOA_U

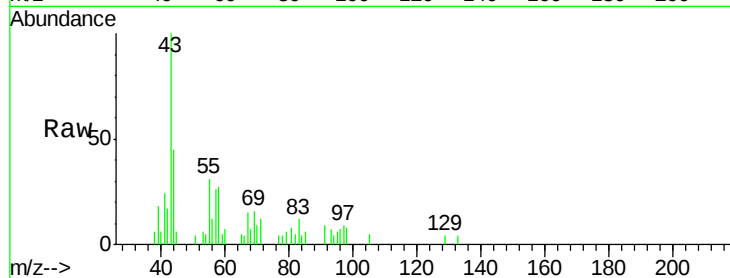
ClientSampleId :

Tot Ion: 43 Resp: 3815

Ion Ratio Lower Upper

43 100

58 27.3 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU024536.D (-540) (-)

Ion 58.00 (57.70 to 58.70): VU024536.D (-540) (-)

2.33

3000

2500

2000

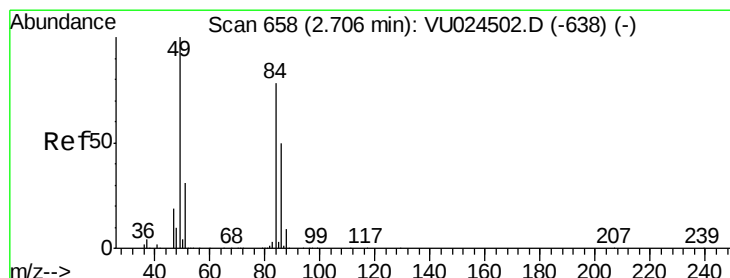
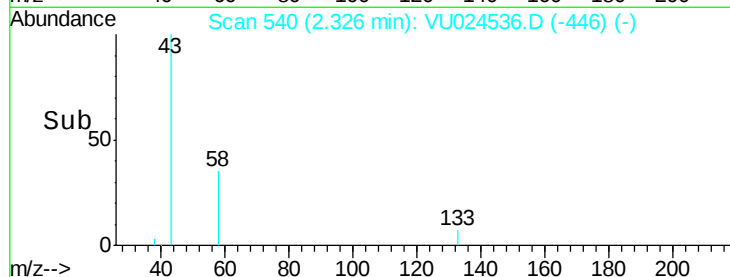
1500

1000

500

0

Time--> 2.25 2.30 2.35 2.40



#20

Methylene Chloride

Concen: 0.370 ug/l

RT: 2.70 min Scan# 657

Delta R.T. -0.00 min

Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

Tgt Ion: 84 Resp: 976

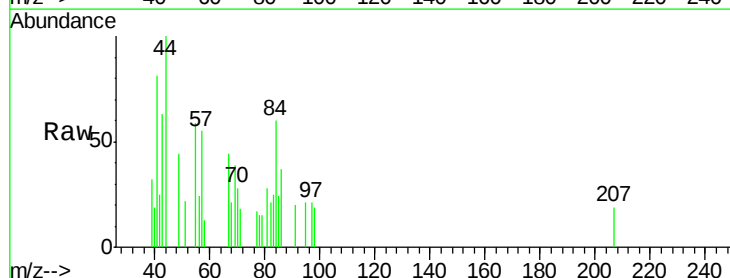
Ion Ratio Lower Upper

84 100

49 72.8 103.8 155.8#

51 36.0 32.0 48.0

86 60.7 51.6 77.4



Abundance Ion 83.90 (83.60 to 84.60): VU024536.D (-655) (-)

Ion 48.90 (48.60 to 49.60): VU024536.D (-655) (-)

Ion 50.90 (50.60 to 51.60): VU024536.D (-655) (-)

Ion 85.90 (85.60 to 86.60): VU024536.D (-655) (-)

2.70

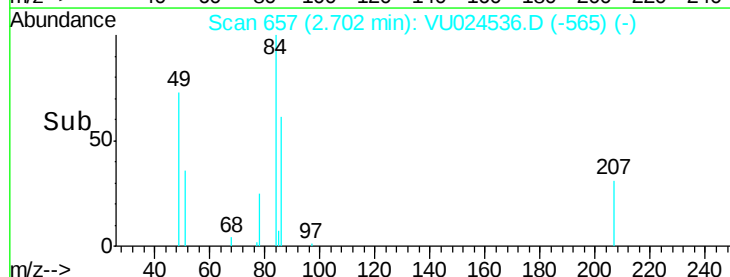
600

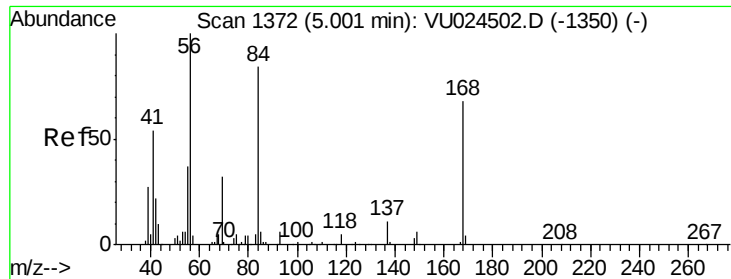
400

200

0

Time--> 2.65 2.70 2.75

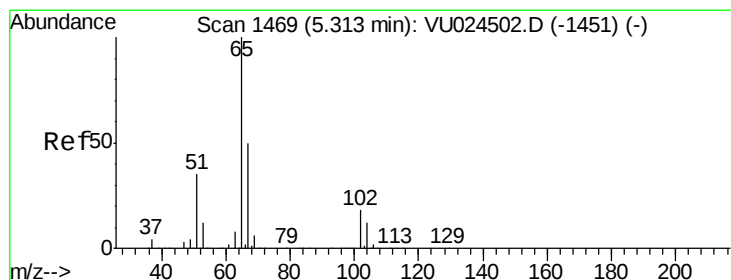
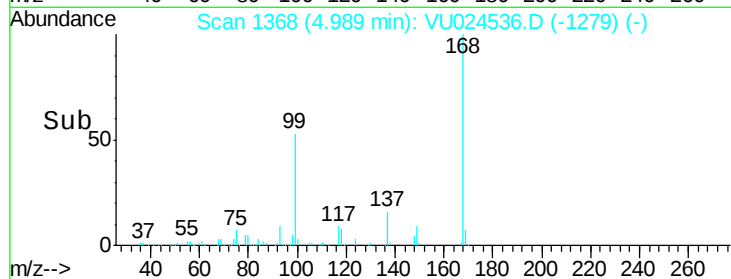
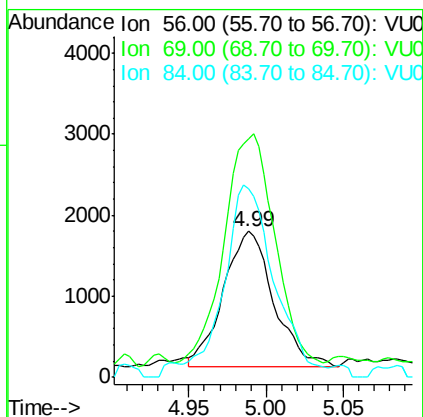
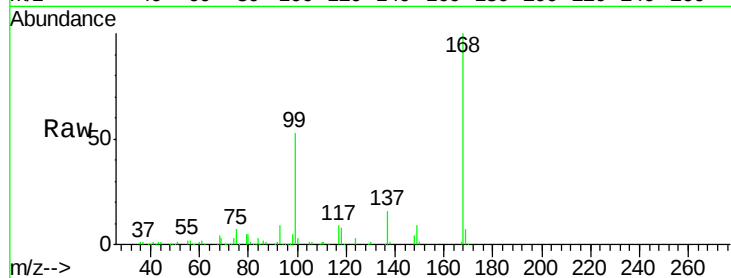




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024536.D
Acq: 14 Jun 2018 13:48

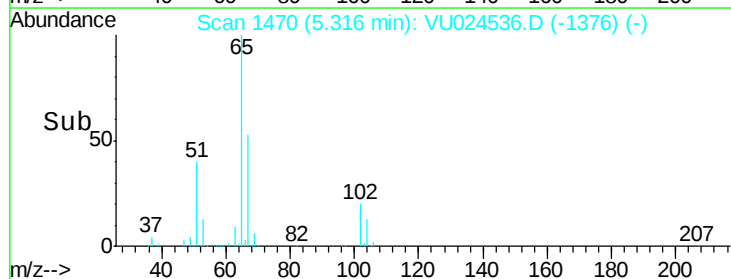
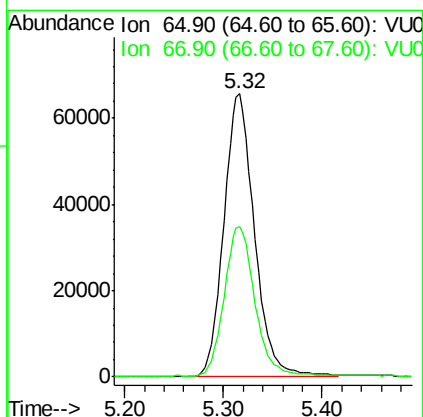
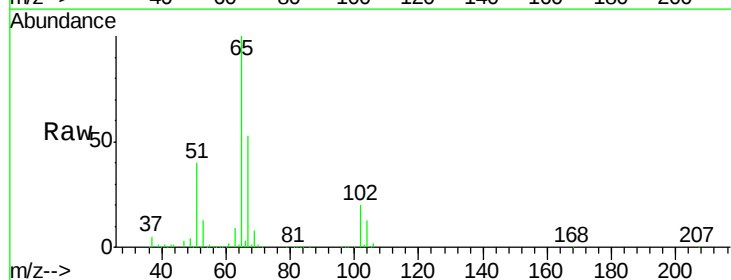
Instrument :
MSVOA_U
ClientSampleId :

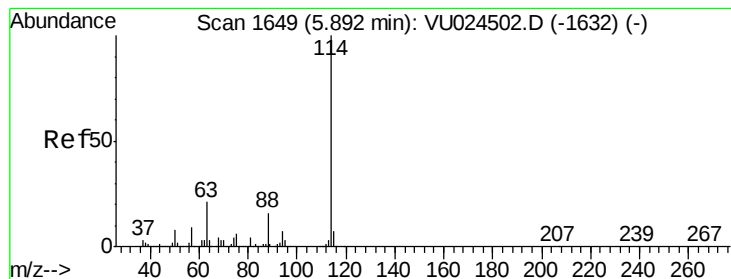
Tot Ion: 56 Resp: 3765
Ion Ratio Lower Upper
56 100
69 161.2 24.8 37.2#
84 139.4 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 45.545 ug/l
RT: 5.32 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VU024536.D
Acq: 14 Jun 2018 13:48

Tgt Ion: 65 Resp: 142694
Ion Ratio Lower Upper
65 100
67 52.6 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: VU024536.D

Acq: 14 Jun 2018 13:48

Instrument :

MSVOA_U

ClientSampleId :

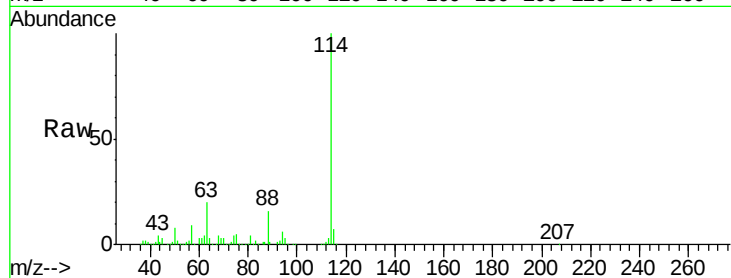
Tot Ion:114 Resp: 324284

Ion Ratio Lower Upper

114 100

63 19.7 0.0 45.4

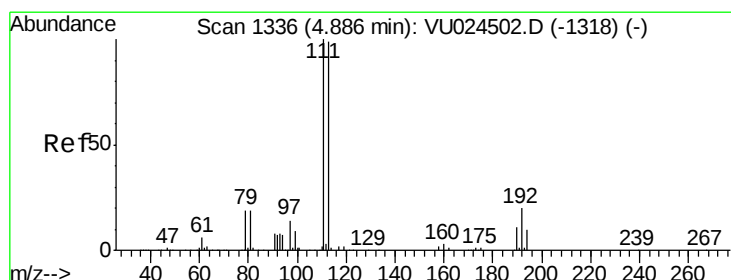
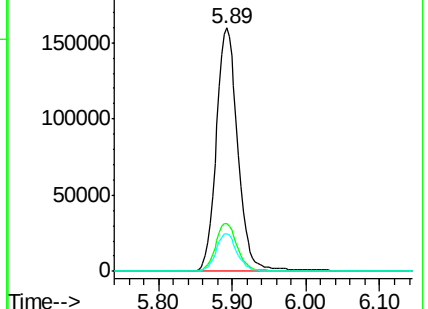
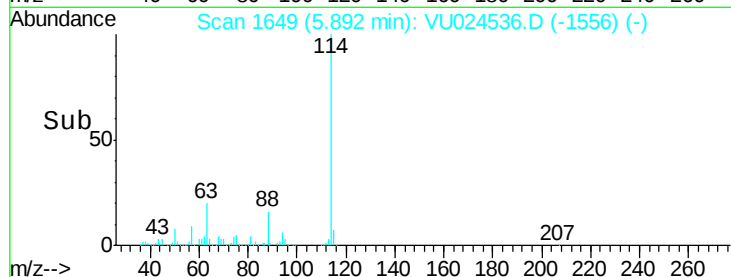
88 15.7 0.0 31.0



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: 47.828 ug/l

RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

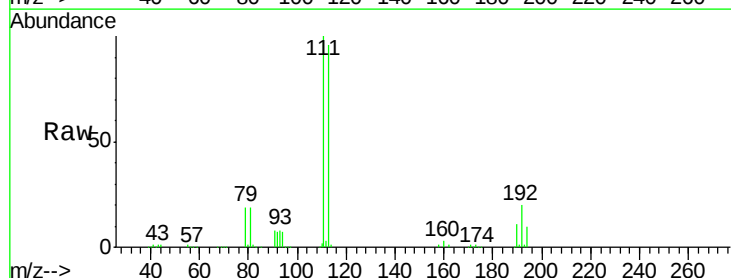
Tgt Ion:113 Resp: 128719

Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.4

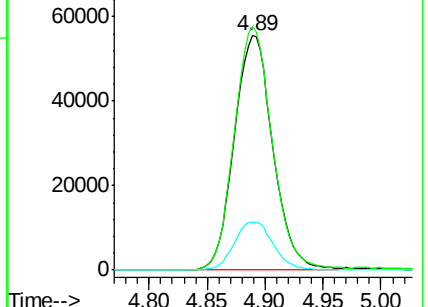
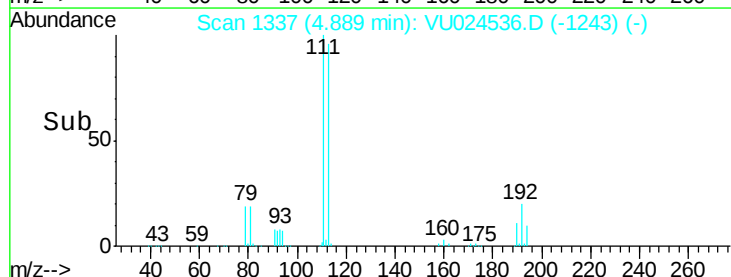
192 20.8 16.2 24.4

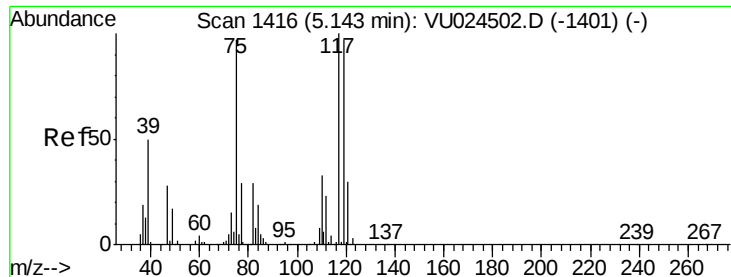


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.382 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

Instrument :
MSVOA_U
ClientSampleId :

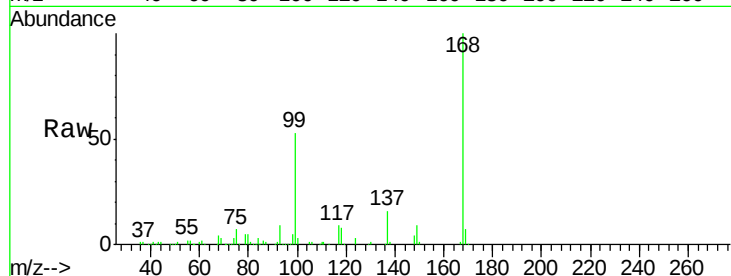
Tot Ion: 75 Resp: 12888

Ion Ratio Lower Upper

75 100

110 5.7 17.0 50.9#

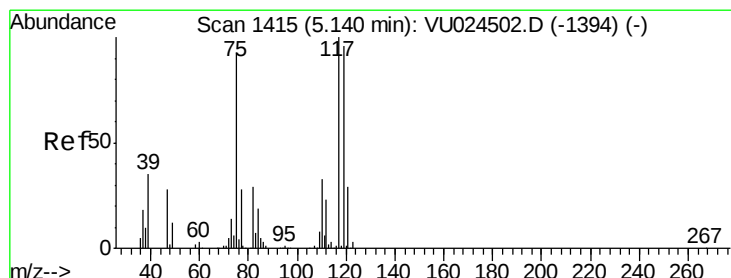
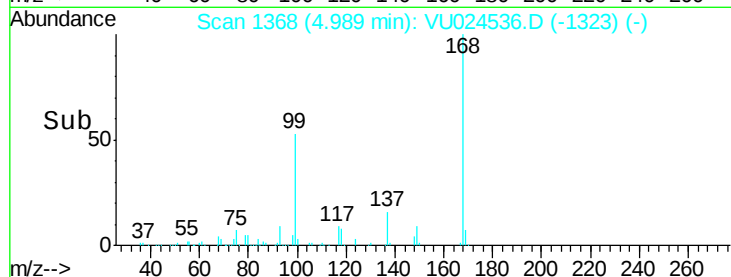
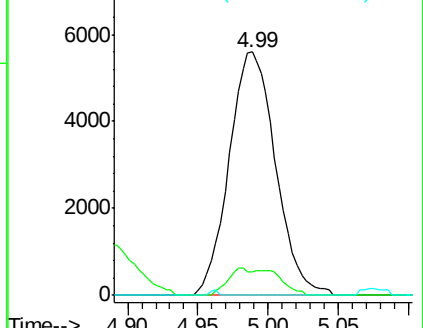
77 0.0 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU024536.D (-1323) (-)

Ion 109.90 (109.60 to 110.60): VU024536.D (-1323) (-)

Ion 76.90 (76.60 to 77.60): VU024536.D (-1323) (-)



#38

Carbon Tetrachloride

Concen: 4.190 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024536.D

Acq: 14 Jun 2018 13:48

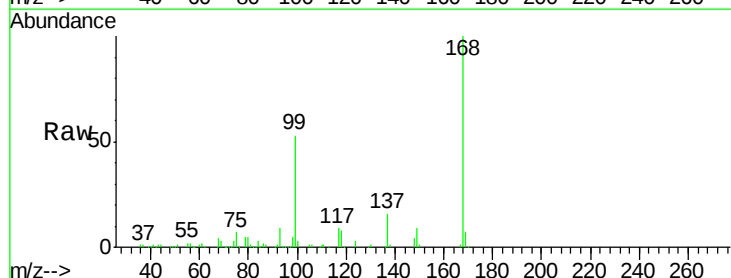
Tgt Ion: 117 Resp: 17556

Ion Ratio Lower Upper

117 100

119 5.4 76.1 114.1#

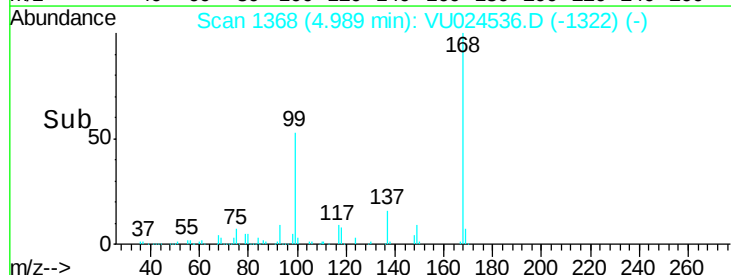
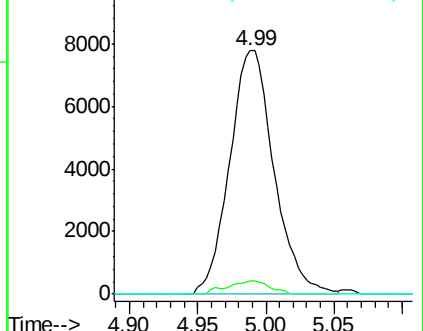
121 0.0 23.7 35.5#

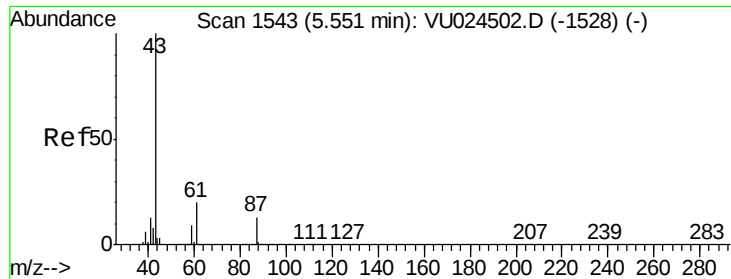


Abundance Ion 116.80 (116.50 to 117.50): VU024536.D (-1322) (-)

Ion 118.80 (118.50 to 119.50): VU024536.D (-1322) (-)

Ion 120.80 (120.50 to 121.50): VU024536.D (-1322) (-)

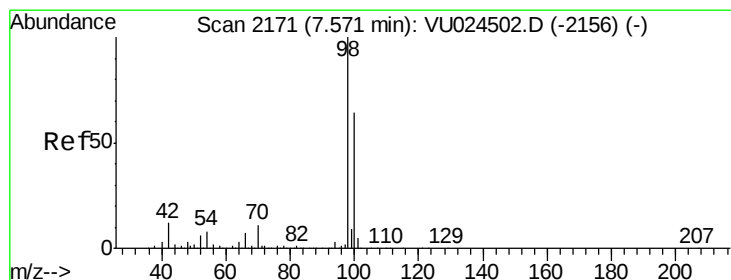
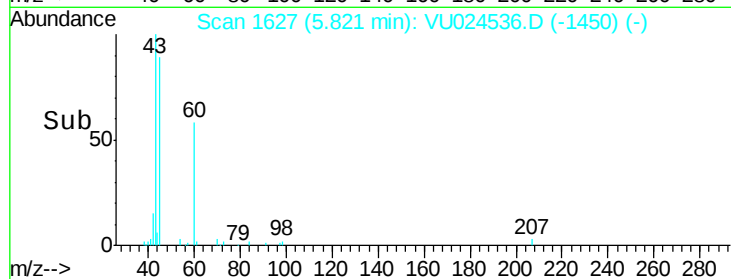
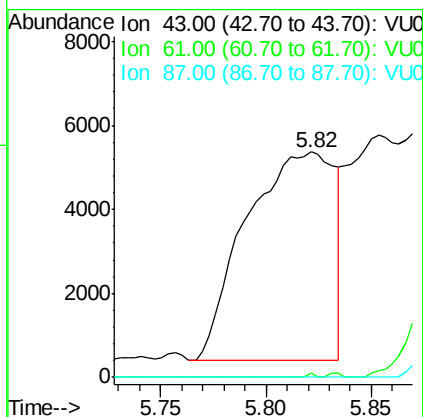
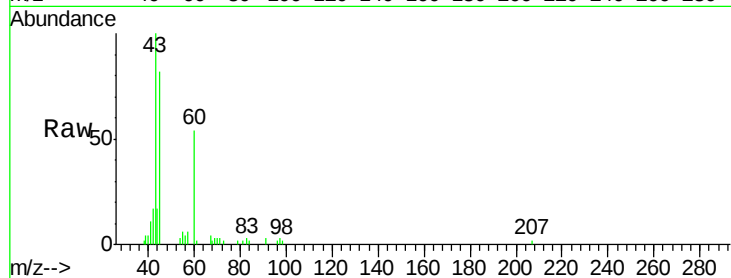




#43
Isopropyl Acetate
Concen: 2.011 ug/l
RT: 5.82 min Scan# 1627
Delta R.T. 0.27 min
Lab File: VU024536.D
Acq: 14 Jun 2018 13:48

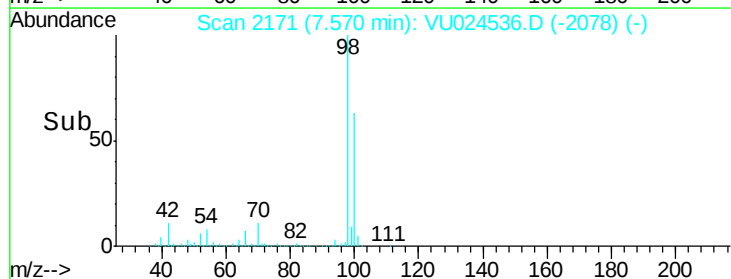
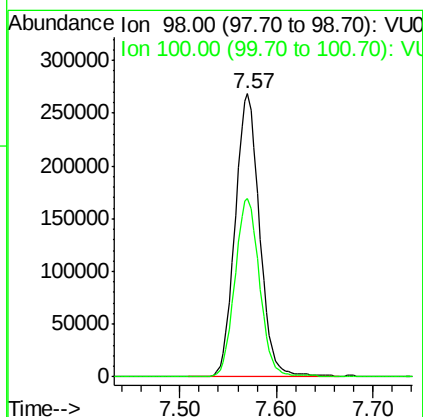
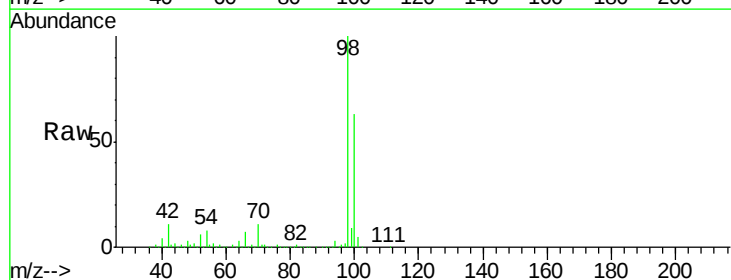
Instrument :
MSVOA_U
ClientSampleId :

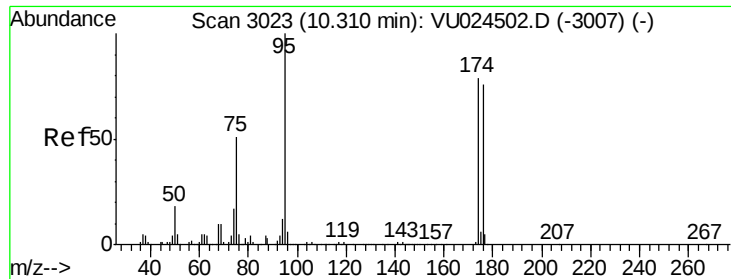
Tot Ion: 43 Resp: 14440
Ion Ratio Lower Upper
43 100
61 0.0 15.4 23.0#
87 0.0 10.0 15.0#



#50
Toluene-d8
Concen: 48.095 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. -0.00 min
Lab File: VU024536.D
Acq: 14 Jun 2018 13:48

Tgt Ion: 98 Resp: 472140
Ion Ratio Lower Upper
98 100
100 63.8 51.1 76.7

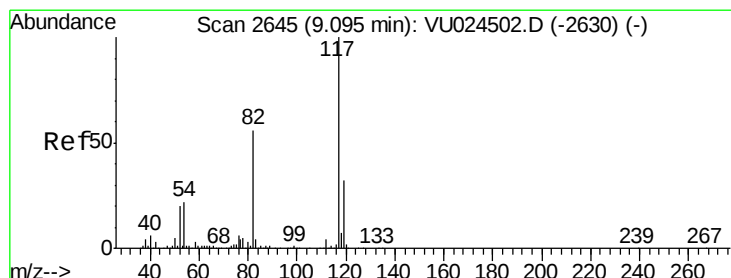
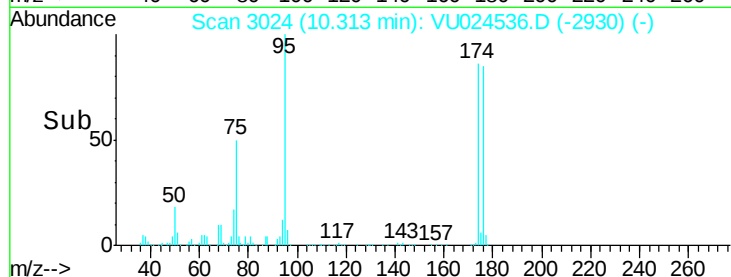
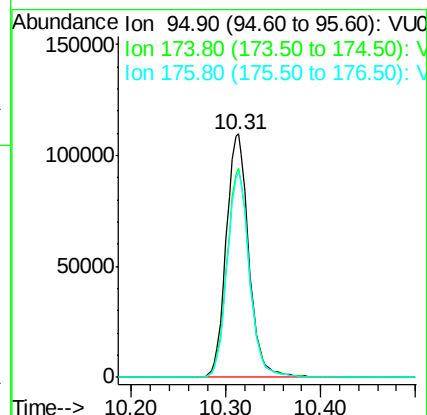
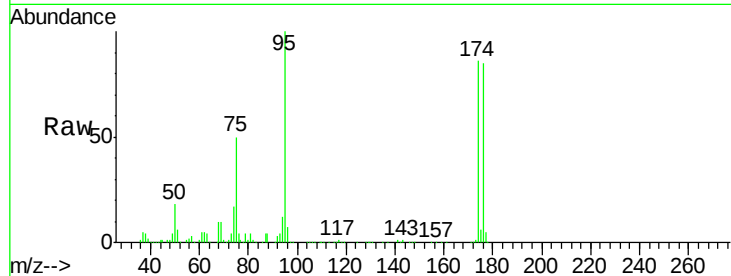




#62
4-Bromofluorobenzene
Concen: 46.759 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU024536.D
Acq: 14 Jun 2018 13:48

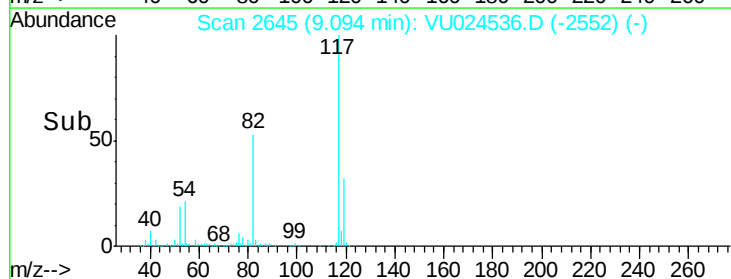
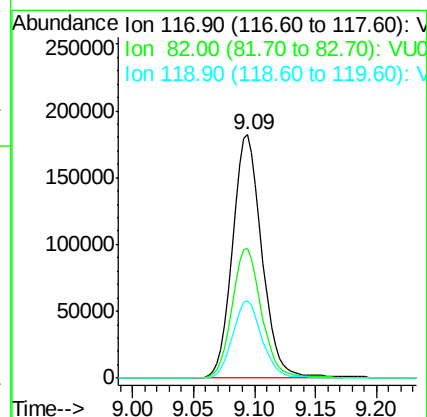
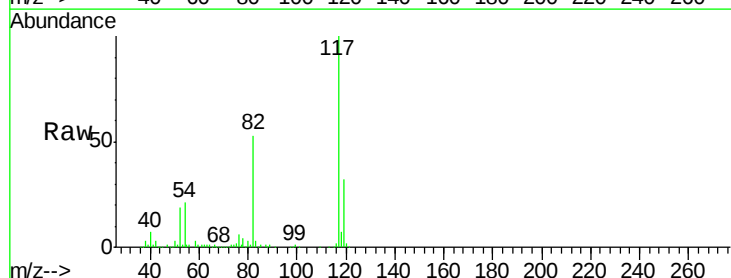
Instrument :
MSVOA_U
ClientSampled :

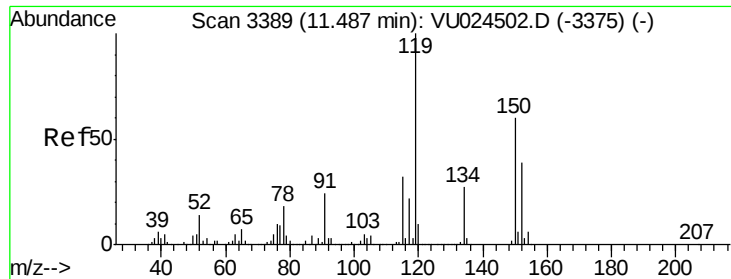
Tot Ion	Ratio	Lower	Upper
95	100		
174	85.0	0.0	165.8
176	83.2	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. -0.00 min
Lab File: VU024536.D
Acq: 14 Jun 2018 13:48

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.1	44.3	66.5
119	32.0	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: VU024536.D

Acq: 14 Jun 2018 13:48

Instrument :

MSVOA_U

ClientSampleId :

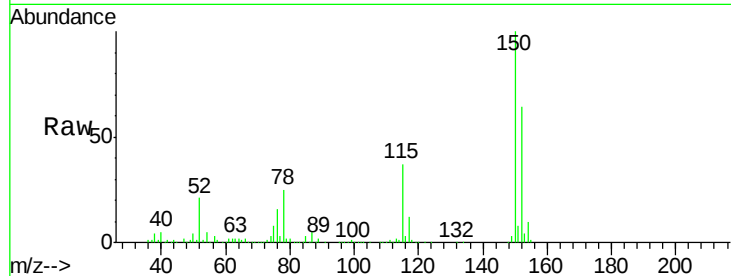
Tot Ion:152 Resp: 178154

Ion Ratio Lower Upper

152 100

115 57.6 43.0 129.0

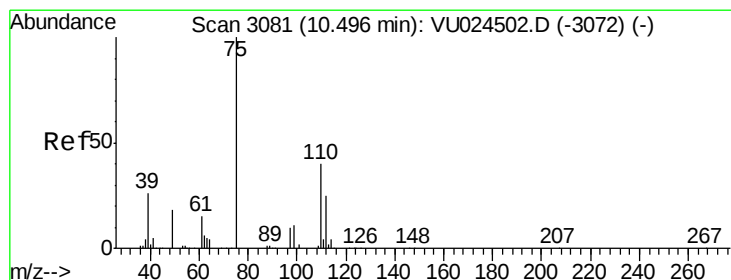
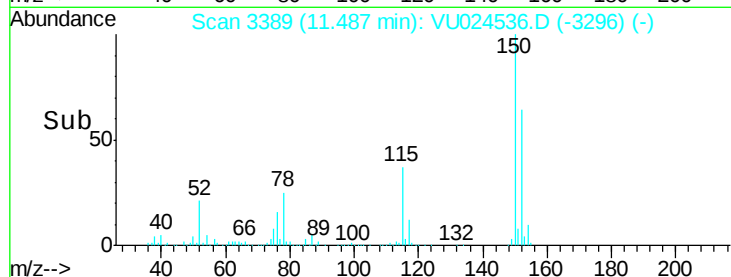
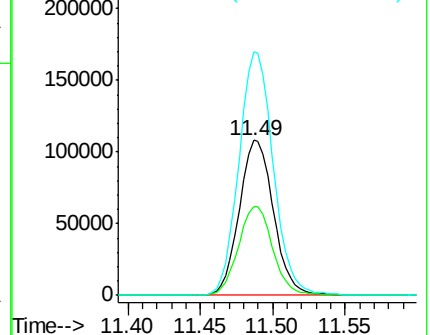
150 157.7 0.0 354.0



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: 23.274 ug/l

RT: 10.31 min Scan# 3024

Delta R.T. -0.18 min

Lab File: VU024536.D

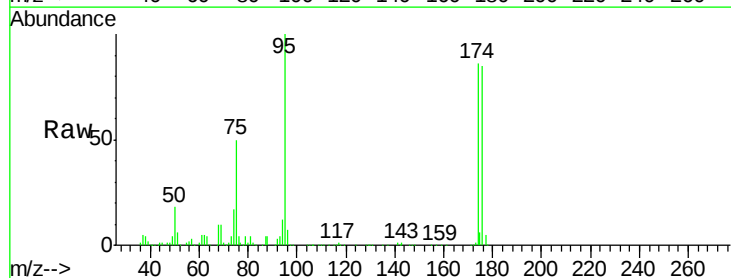
Acq: 14 Jun 2018 13:48

Tgt Ion: 75 Resp: 91286

Ion Ratio Lower Upper

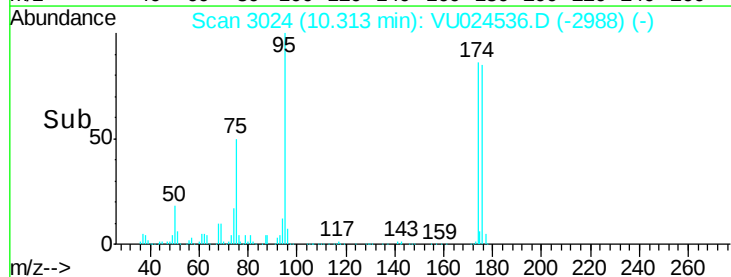
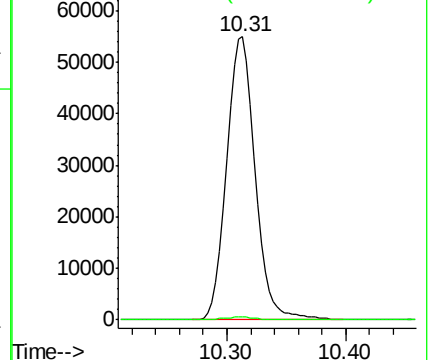
75 100

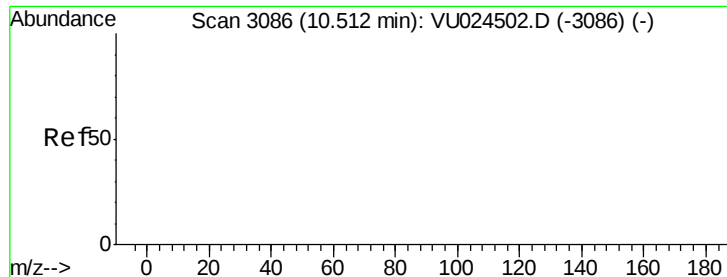
77 1.2 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

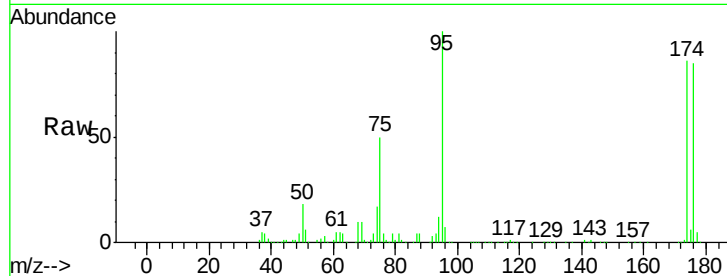




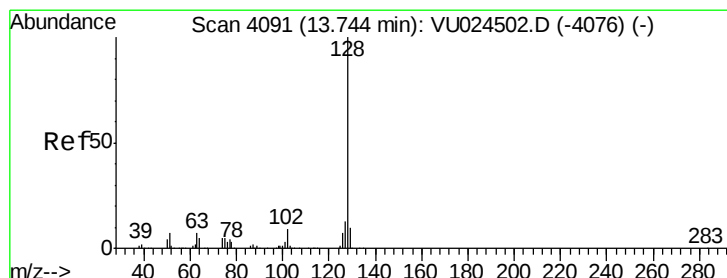
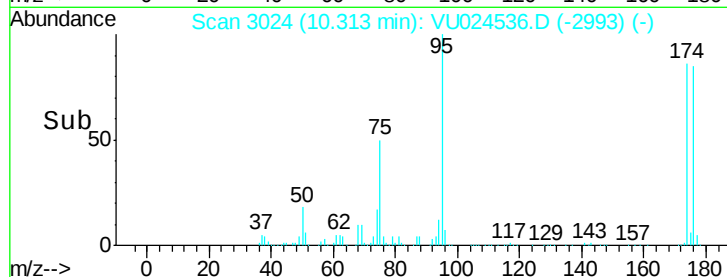
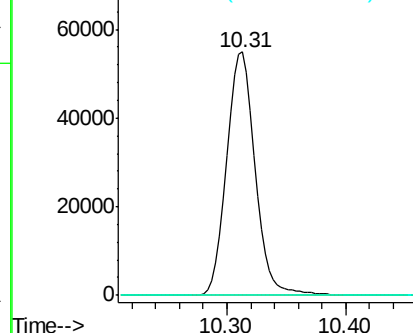
#81
trans-1,4-Dichloro-2-butene
Concen: 53.865 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. -0.20 min
Lab File: VU024536.D
Acq: 14 Jun 2018 13:48

Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 75 Resp: 91286
Ion Ratio Lower Upper
75 100
53 0.0 0.0 0.0
89 0.0 0.0 0.0

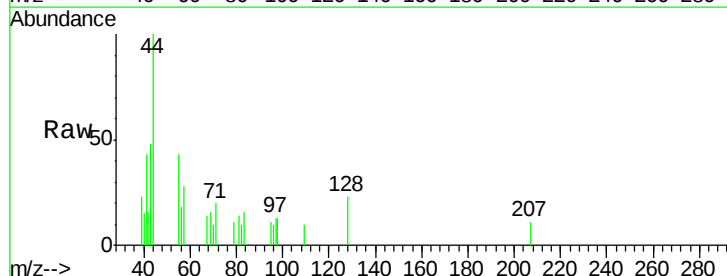


Abundance Ion 74.90 (74.60 to 75.60): VU0
Ion 53.00 (52.70 to 53.70): VU0
Ion 88.90 (88.60 to 89.60): VU0



#95
Naphthalene
Concen: 0.702 ug/l
RT: 13.77 min Scan# 4100
Delta R.T. 0.03 min
Lab File: VU024536.D
Acq: 14 Jun 2018 13:48

Tgt Ion:128 Resp: 300
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

