

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061418\
 Data File : VU024534.D
 Acq On : 14 Jun 2018 13:02
 Operator : MD/SY
 Sample : J3476-03
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Jun 15 01:33:56 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

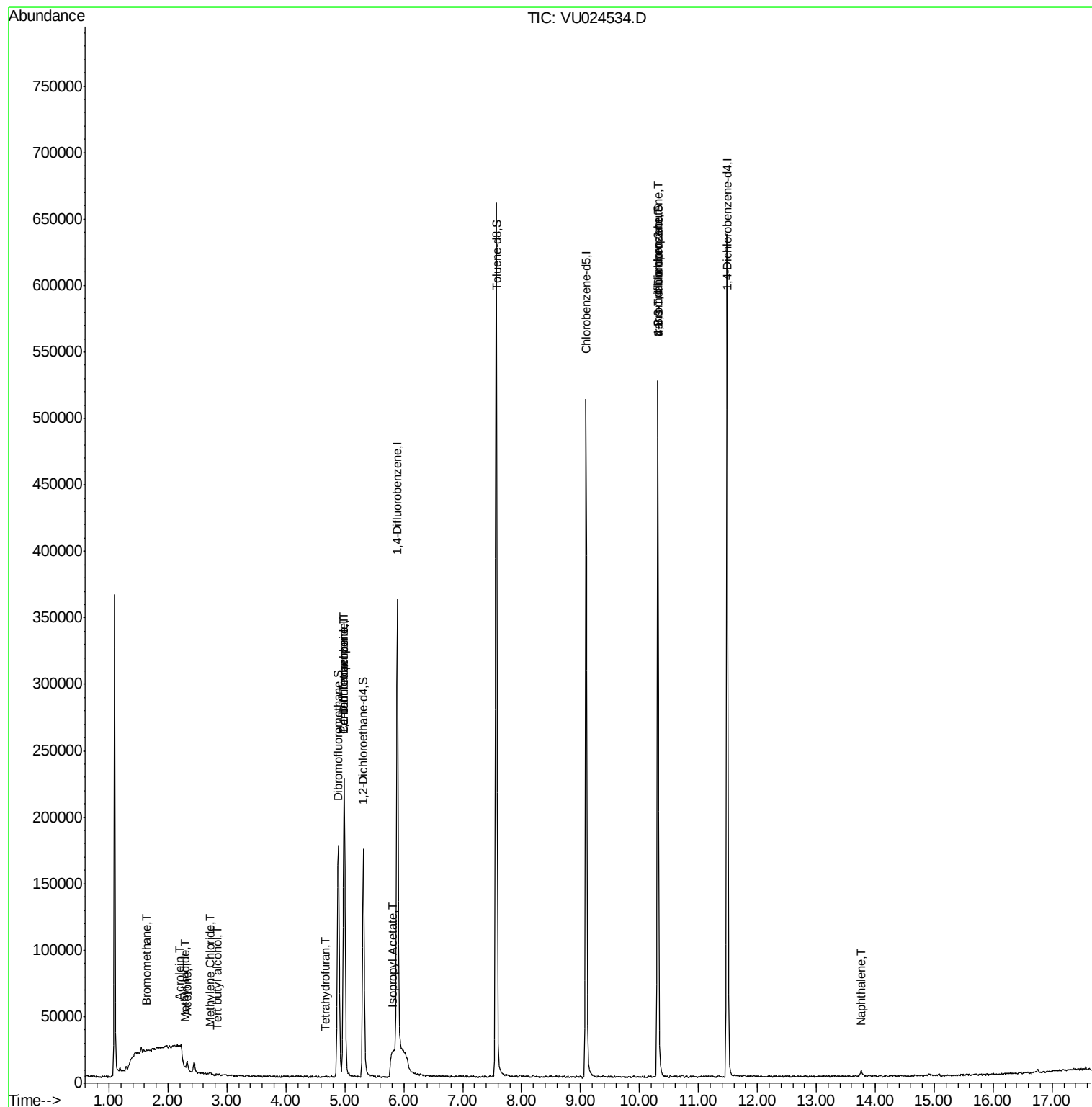
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	177310	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	300807	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	289726	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	171887	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	135861	46.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.88%	
35) Dibromofluoromethane	4.89	113	121406	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
50) Toluene-d8	7.57	98	444359	48.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.60%	
62) 4-Bromofluorobenzene	10.31	95	176399	48.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.58%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.63	94	257	0.227	ug/l	92
6) Chloroethane	1.71	64	207	Below Cal	#	43
8) Diethyl Ether	2.15	74	106	Below Cal		85
10) Methyl Iodide	2.29	142	21	5.299	ug/l #	40
11) Tert butyl alcohol	2.83	59	159	0.226	ug/l #	48
13) Acrolein	2.20	56	243	0.657	ug/l #	13
16) Acetone	2.33	43	6943	4.464	ug/l	96
20) Methylene Chloride	2.71	84	1323	0.542	ug/l #	77
29) Tetrahydrofuran	4.66	42	919	0.710	ug/l #	56
31) Cyclohexane	4.99	56	3686	Below Cal	#	2
36) 1,1-Dichloropropene	4.99	75	12302	3.480	ug/l #	52
38) Carbon Tetrachloride	4.99	117	16709	4.299	ug/l #	16
43) Isopropyl Acetate	5.80	43	13316	2.000	ug/l #	63
76) 1,2,3-Trichloropropane	10.31	75	86771	22.929	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	86771	53.067	ug/l #	100
95) Naphthalene	13.76	128	4748	1.050	ug/l	97

(#) = 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: VU024534.D

Acq: 14 Jun 2018 13:02

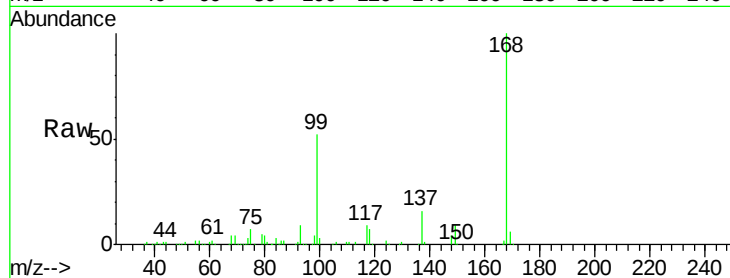
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion:168 Resp: 177310

Ion Ratio Lower Upper

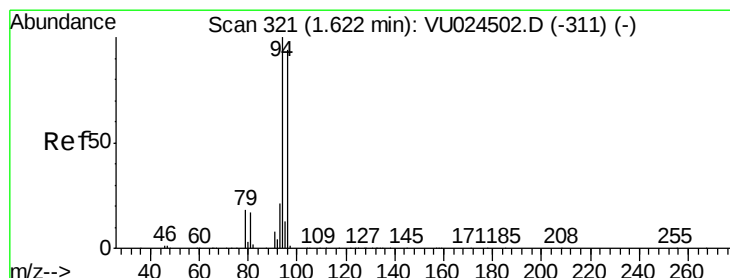
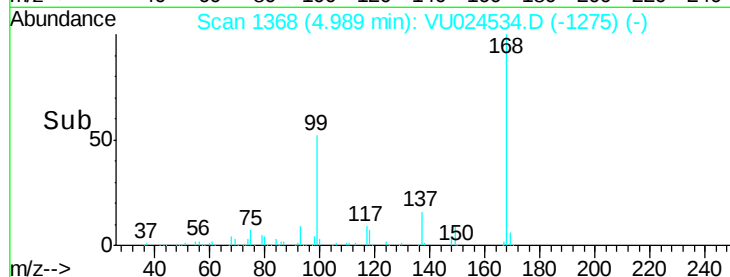
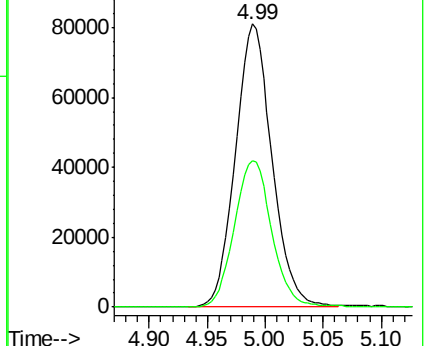
168 100

99 51.9 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VU0



#5

Bromomethane

Concen: 0.227 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU024534.D

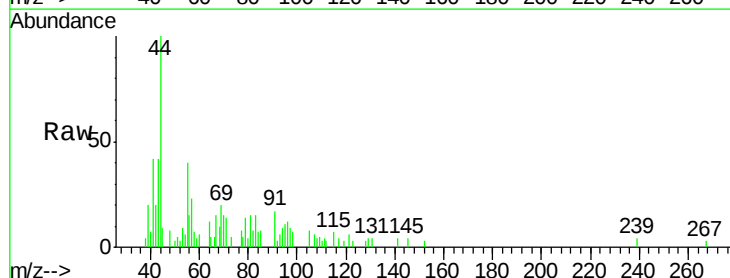
Acq: 14 Jun 2018 13:02

Tgt Ion: 94 Resp: 257

Ion Ratio Lower Upper

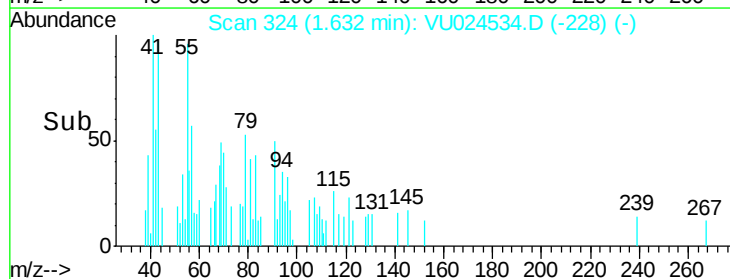
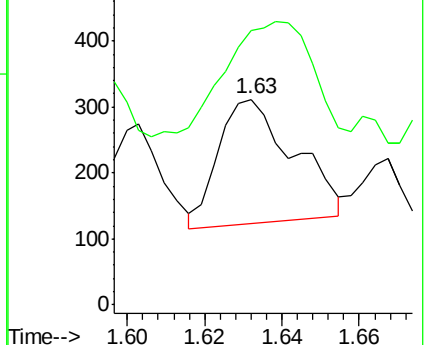
94 100

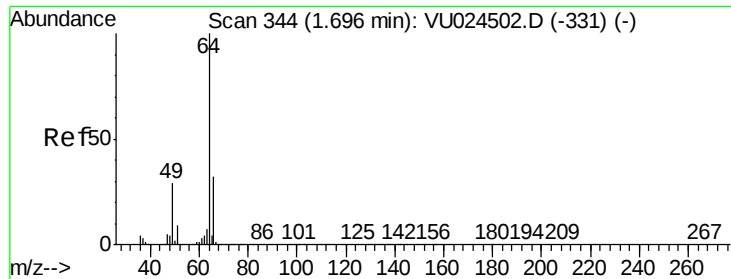
96 85.6 74.5 111.7



Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0





#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 348

Delta R.T. 0.01 min

Lab File: VU024534.D

Acq: 14 Jun 2018 13:02

Instrument :

MSVOA_U

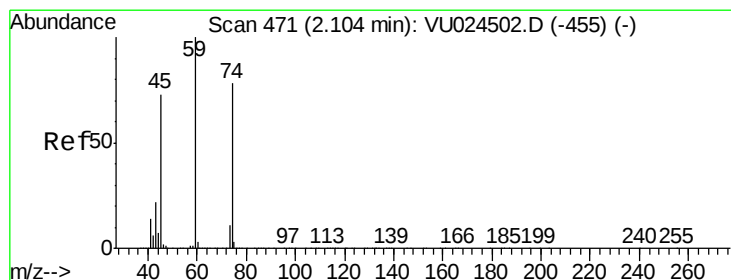
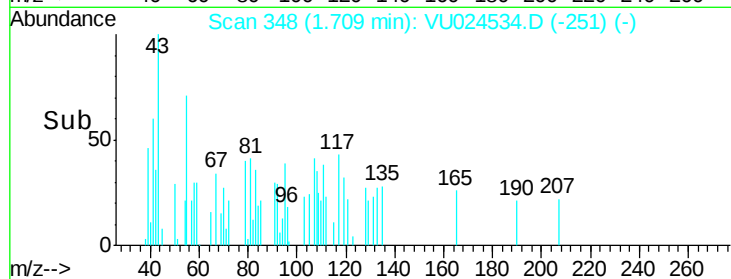
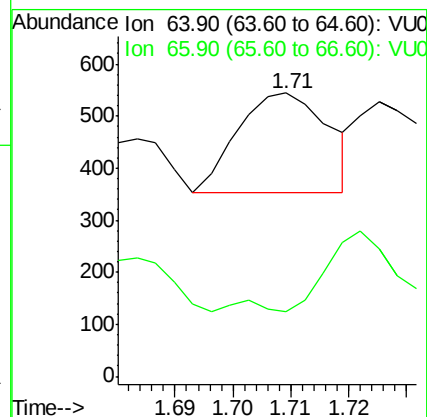
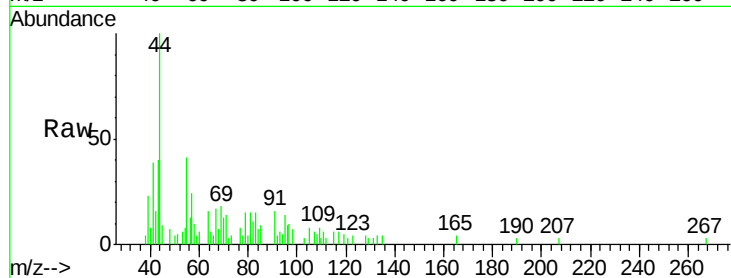
ClientSampled :

Tot Ion: 64 Resp: 207

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.15 min Scan# 484

Delta R.T. 0.04 min

Lab File: VU024534.D

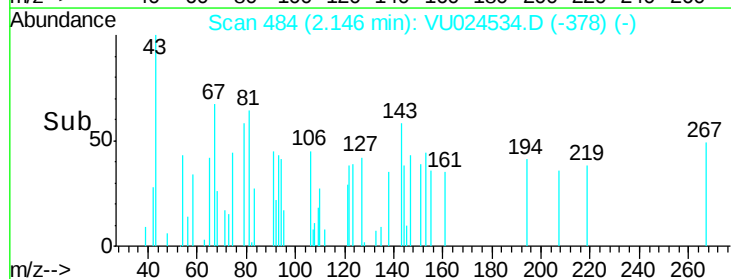
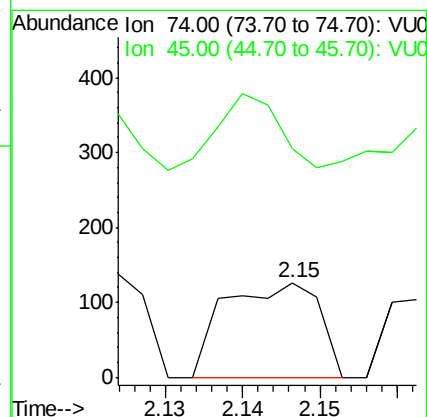
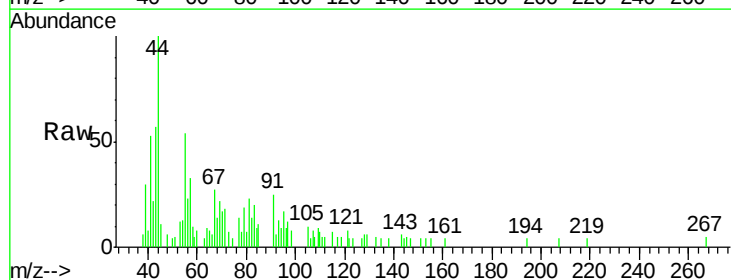
Acq: 14 Jun 2018 13:02

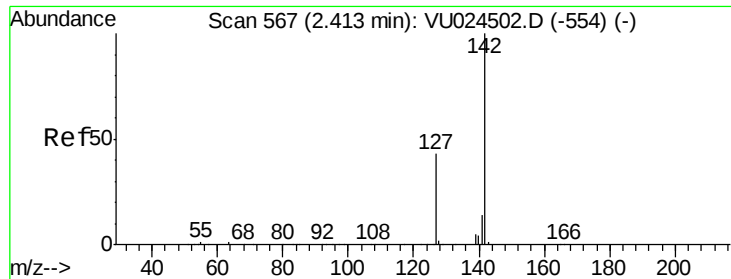
Tgt Ion: 74 Resp: 106

Ion Ratio Lower Upper

74 100

45 94.3 55.0 165.0

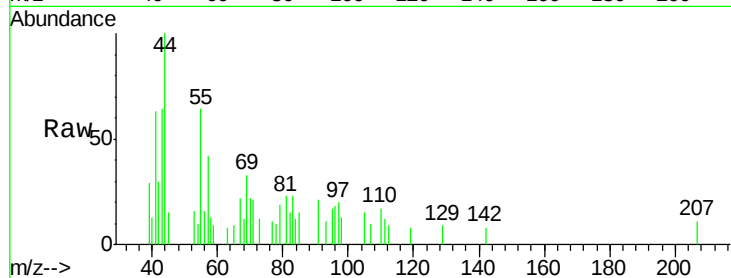




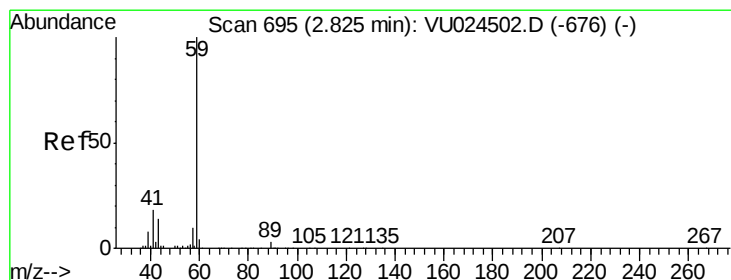
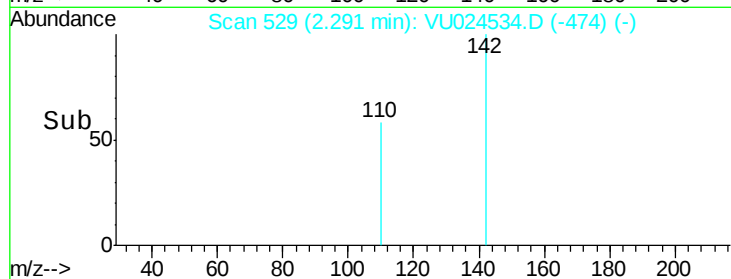
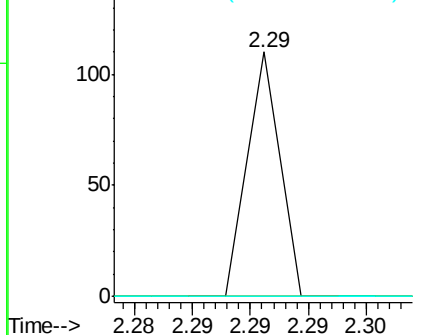
#10
Methvl Iodide
Concen: 5.299 ug/l
RT: 2.29 min Scan# 529
Delta R.T. -0.12 min
Lab File: VU024534.D
Acq: 14 Jun 2018 13:02

Instrument :
MSVOA_U
ClientSampled :

Tot Ion:142 Resp: 21
Ion Ratio Lower Upper
142 100
127 0.0 35.6 53.4#
141 0.0 11.7 17.5#

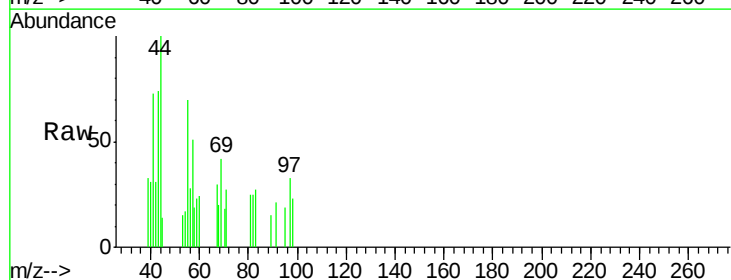


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

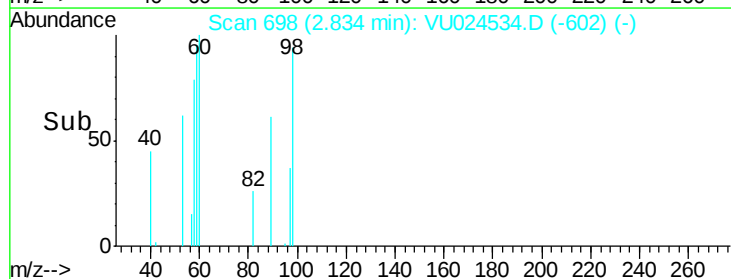
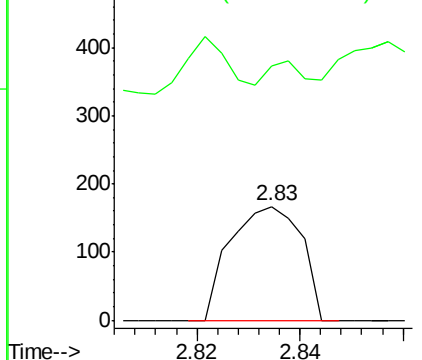


#11
Tert butyl alcohol
Concen: 0.226 ug/l
RT: 2.83 min Scan# 698
Delta R.T. 0.01 min
Lab File: VU024534.D
Acq: 14 Jun 2018 13:02

Tgt Ion: 59 Resp: 159
Ion Ratio Lower Upper
59 100
57 30.2 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#13

Acrolein

Concen: 0.657 ug/l

RT: 2.20 min Scan# 501

Delta R.T. 0.01 min

Lab File: VU024534.D

Acq: 14 Jun 2018 13:02

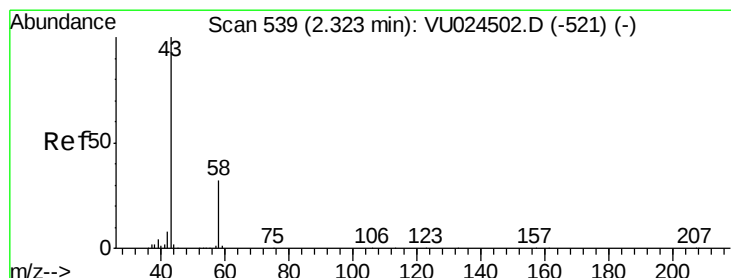
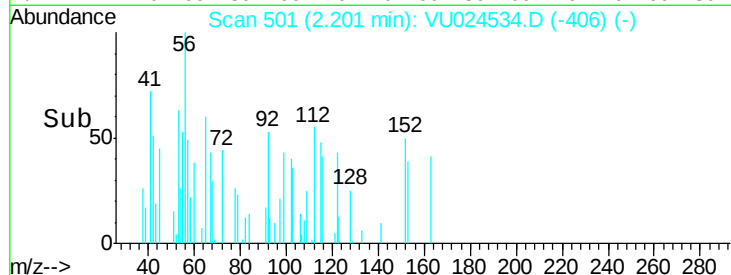
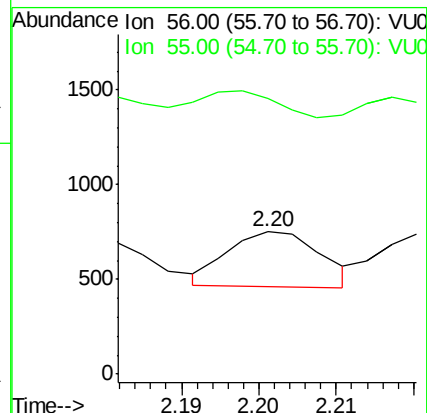
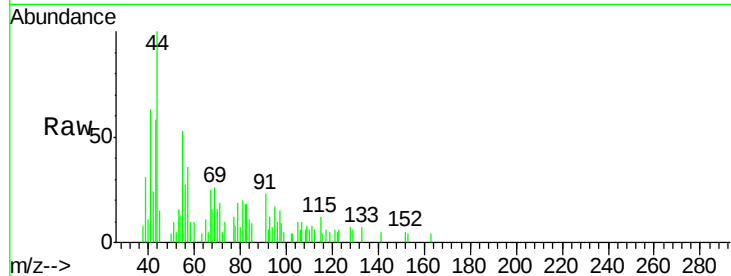
Instrument :
MSVOA_U
ClientSampled :

Tot Ion: 56 Resp: 243

Ion Ratio Lower Upper

56 100

55 0.0 58.4 87.6#



#16

Acetone

Concen: 4.464 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024534.D

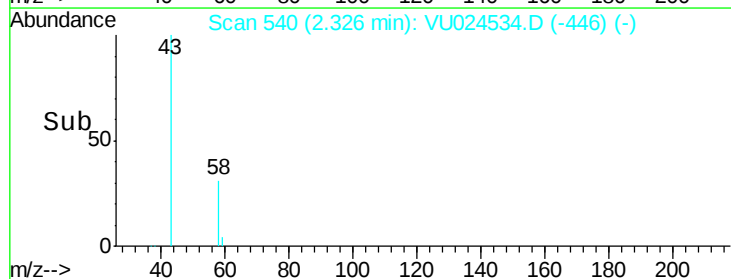
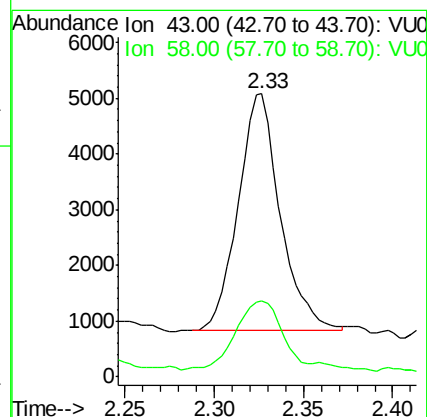
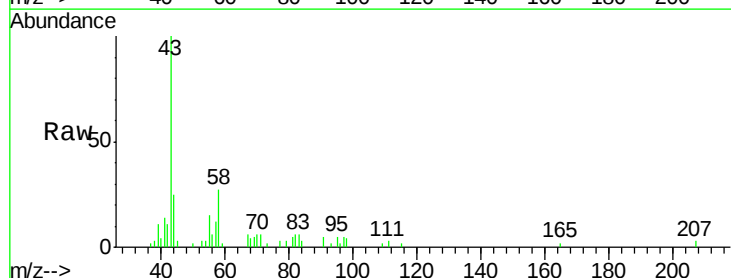
Acq: 14 Jun 2018 13:02

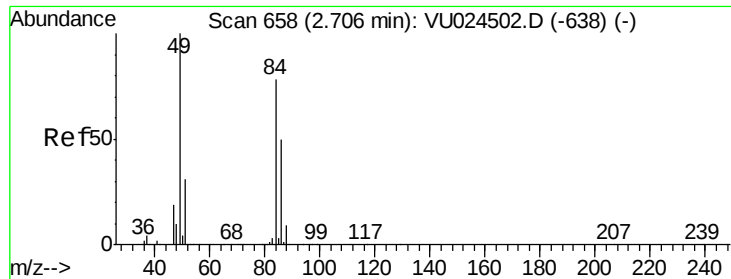
Tgt Ion: 43 Resp: 6943

Ion Ratio Lower Upper

43 100

58 28.4 24.4 36.6

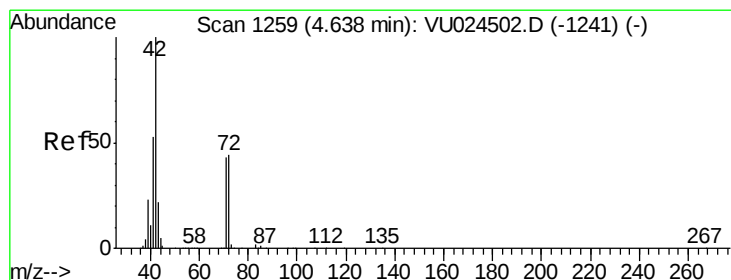
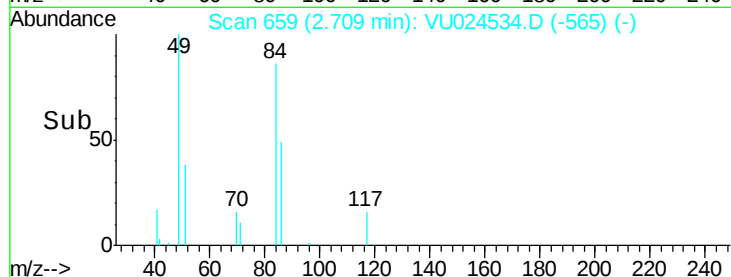
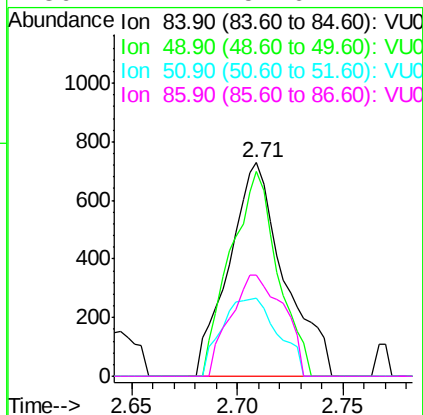
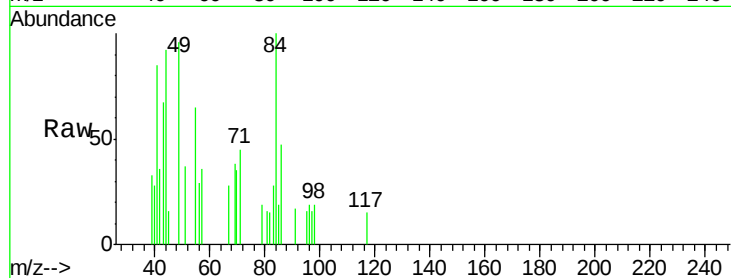




#20
Methvlene Chloride
Concen: 0.542 ug/l
RT: 2.71 min Scan# 659
Delta R.T. 0.00 min
Lab File: VU024534.D
Acq: 14 Jun 2018 13:02

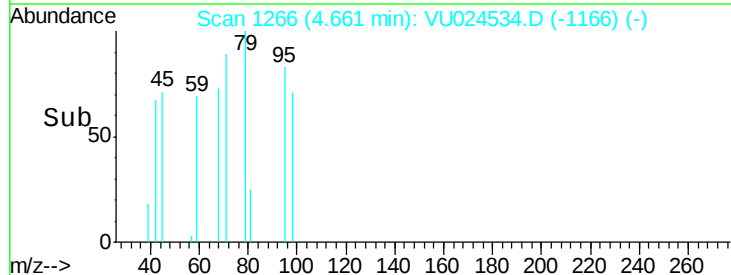
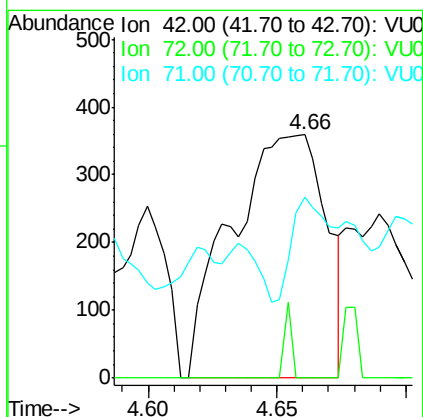
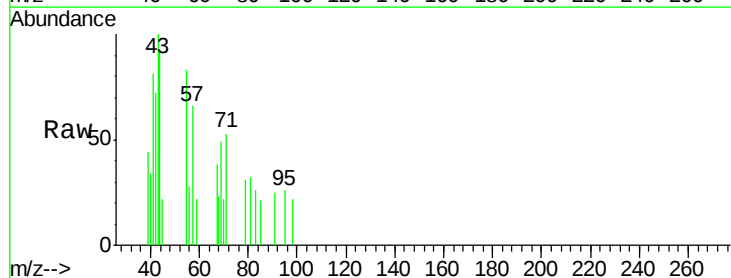
Instrument :
MSVOA_U
ClientSampleId :

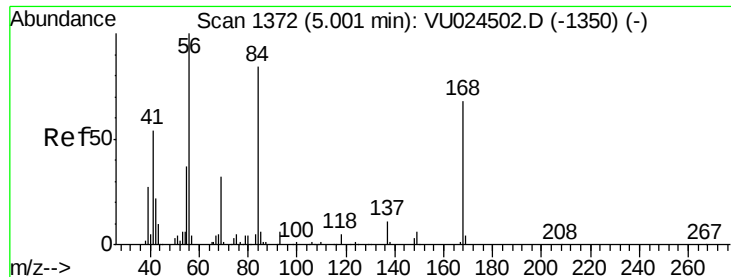
Tot Ion: 84 Resp: 1323
Ion Ratio Lower Upper
84 100
49 95.6 103.8 155.8#
51 36.6 32.0 48.0
86 47.2 51.6 77.4#



#29
Tetrahydrofuran
Concen: 0.710 ug/l
RT: 4.66 min Scan# 1266
Delta R.T. 0.02 min
Lab File: VU024534.D
Acq: 14 Jun 2018 13:02

Tgt Ion: 42 Resp: 919
Ion Ratio Lower Upper
42 100
72 2.3 34.5 51.7#
71 25.9 32.2 48.4#

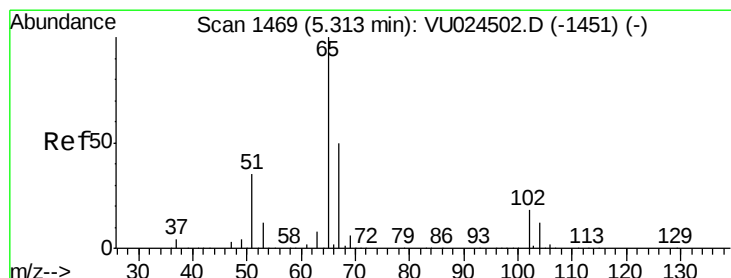
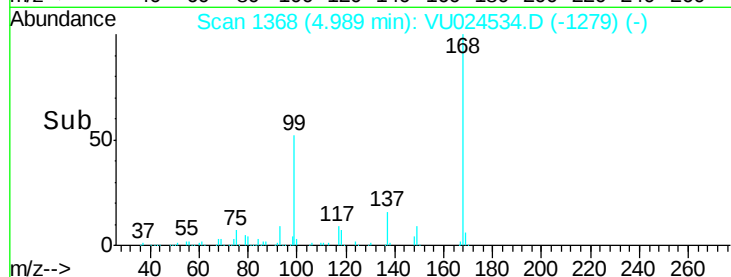
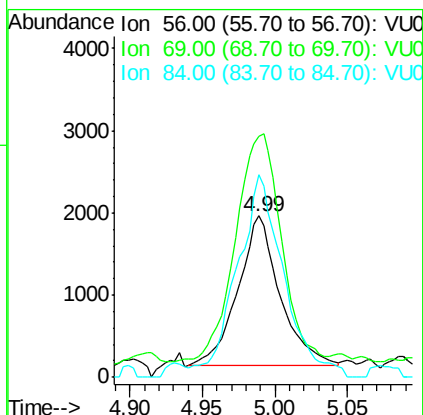
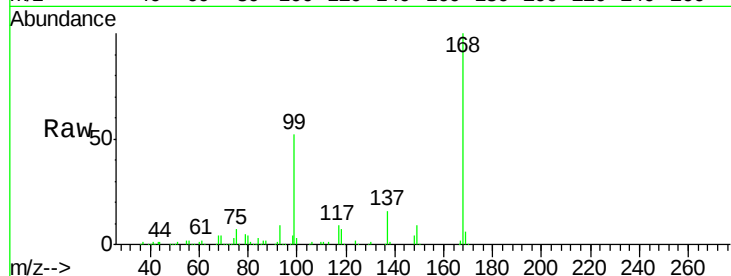




#31
Cyclohexane
Concen: Below Cal
RT: 4.99 min Scan# 1368
Delta R.T. -0.01 min
Lab File: VU024534.D
Acq: 14 Jun 2018 13:02

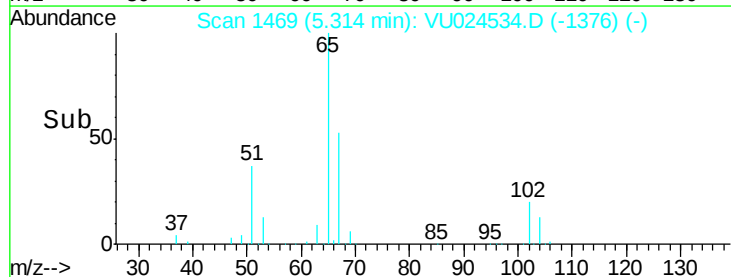
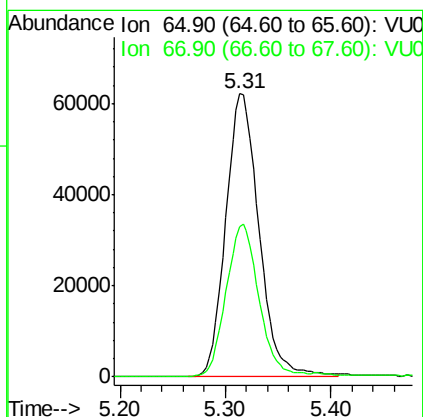
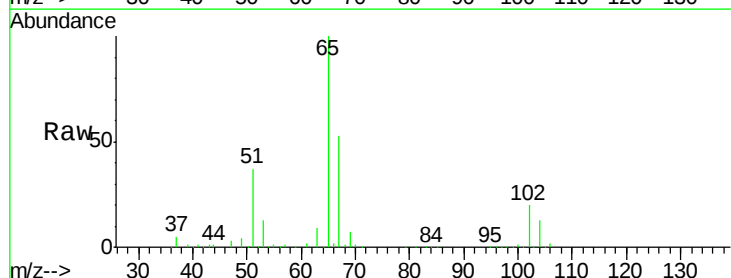
Instrument :
MSVOA_U
ClientSampleId :

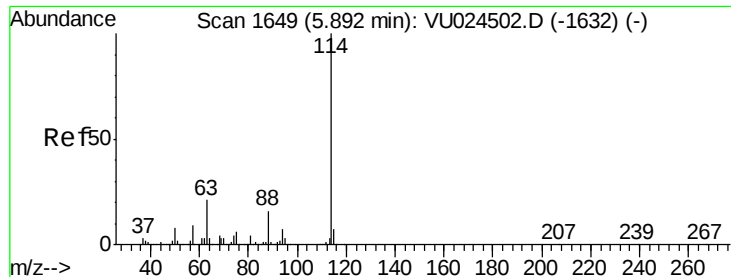
Tot Ion: 56 Resp: 3686
Ion Ratio Lower Upper
56 100
69 149.4 24.8 37.2#
84 129.1 65.2 97.8#



#33
1,2-Dichloroethane-d4
Concen: 46.936 ug/l
RT: 5.31 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VU024534.D
Acq: 14 Jun 2018 13:02

Tgt Ion: 65 Resp: 135861
Ion Ratio Lower Upper
65 100
67 52.3 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: VU024534.D

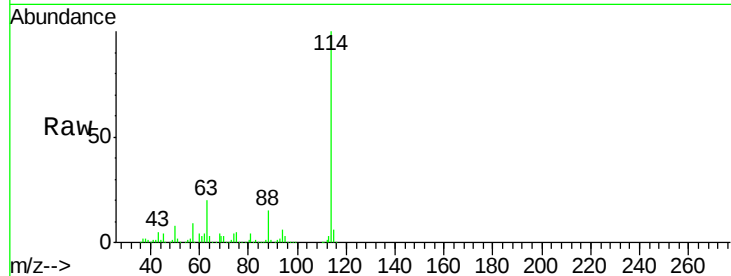
Acq: 14 Jun 2018 13:02

Instrument :

MSVOA_U

ClientSampleId :

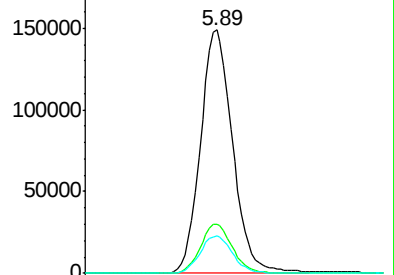
Tot Ion:114	Resp:	300807
Ion Ratio	Lower	Upper
114 100		
63 20.4	0.0	45.4
88 15.2	0.0	31.0



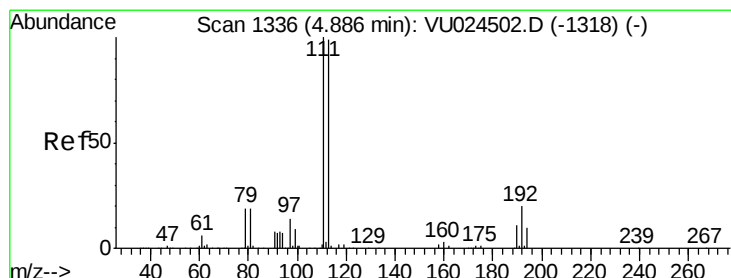
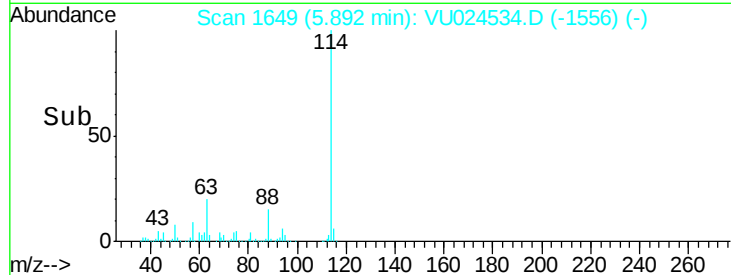
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



Time-->



#35

Dibromofluoromethane

Concen: 48.631 ug/l

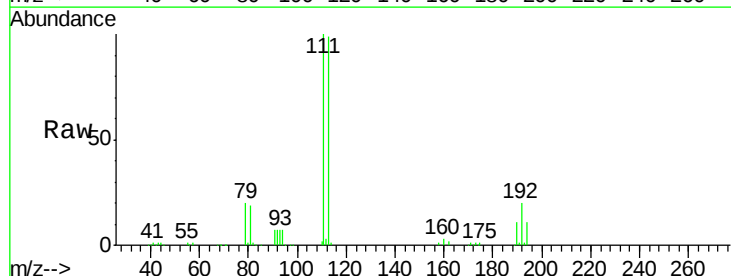
RT: 4.89 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VU024534.D

Acq: 14 Jun 2018 13:02

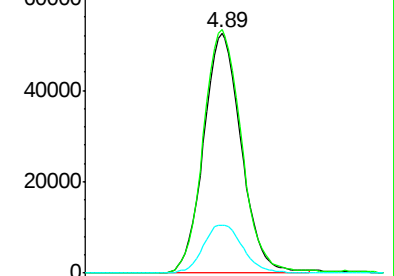
Tgt Ion:113	Resp:	121406
Ion Ratio	Lower	Upper
113 100		
111 102.7	82.2	123.4
192 21.1	16.2	24.4



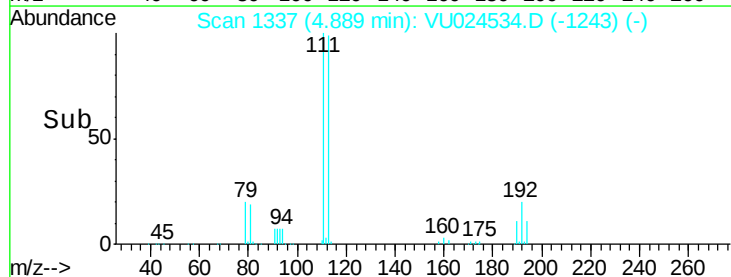
Abundance Ion 112.80 (112.50 to 113.50): V

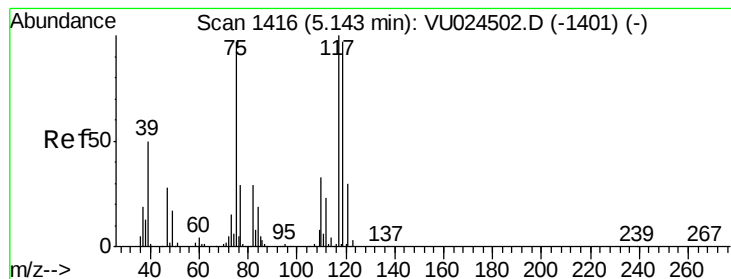
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->





#36

1,1-Dichloropropene

Concen: 3.480 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU024534.D

Acq: 14 Jun 2018 13:02

Instrument :

MSVOA_U

ClientSampleId :

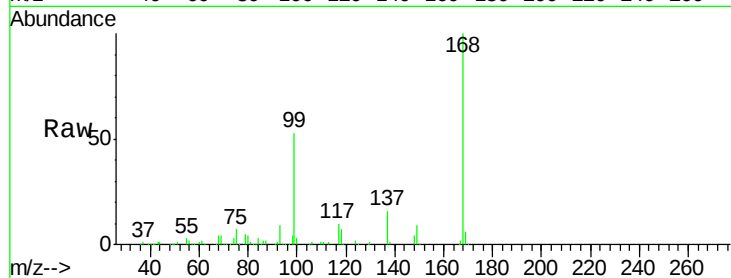
Tot Ion: 75 Resp: 12302

Ion Ratio Lower Upper

75 100

110 10.7 17.0 50.9#

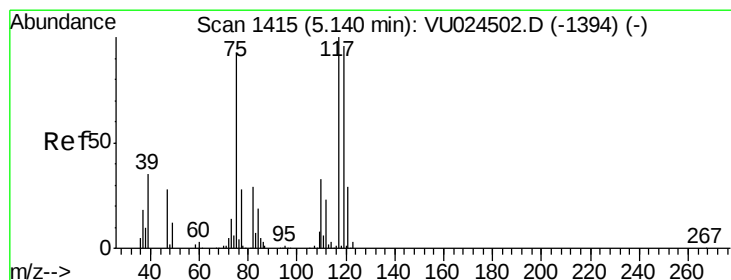
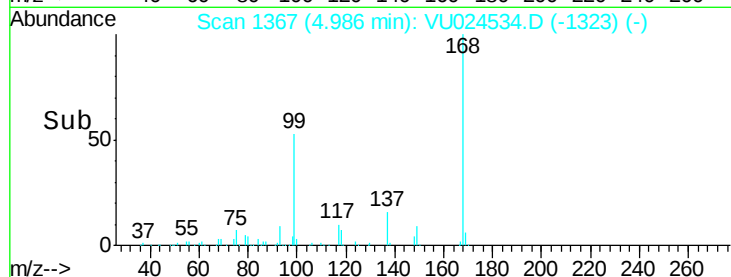
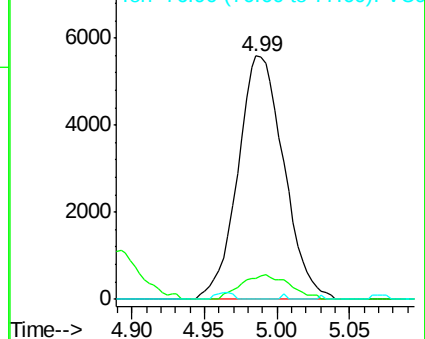
77 0.2 24.2 36.4#



Abundance Ion 74.90 (74.60 to 75.60): VU024534.D (-1367) (-)

Ion 109.90 (109.60 to 110.60): VU024534.D (-1367) (-)

Ion 76.90 (76.60 to 77.60): VU024534.D (-1367) (-)



#38

Carbon Tetrachloride

Concen: 4.299 ug/l

RT: 4.99 min Scan# 1368

Delta R.T. -0.15 min

Lab File: VU024534.D

Acq: 14 Jun 2018 13:02

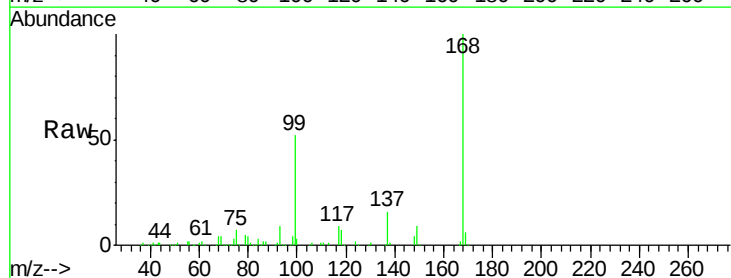
Tgt Ion: 117 Resp: 16709

Ion Ratio Lower Upper

117 100

119 5.2 76.1 114.1#

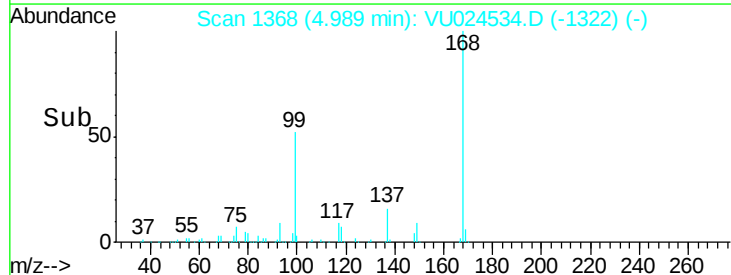
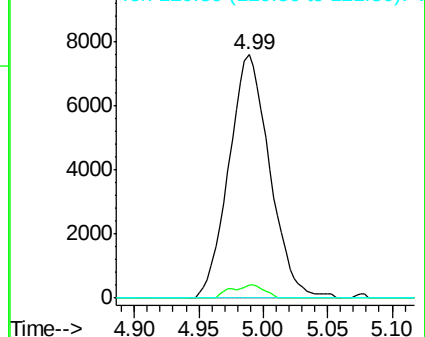
121 0.0 23.7 35.5#

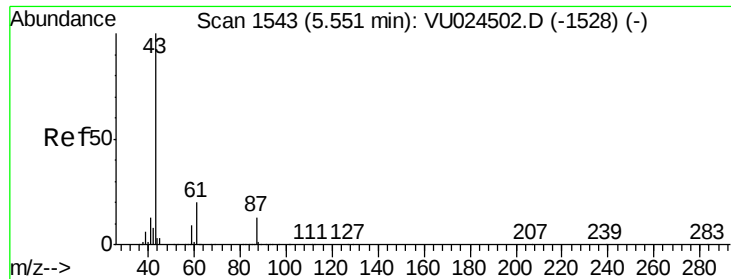


Abundance Ion 116.80 (116.50 to 117.50): VU024534.D (-1368) (-)

Ion 118.80 (118.50 to 119.50): VU024534.D (-1368) (-)

Ion 120.80 (120.50 to 121.50): VU024534.D (-1368) (-)





#43

Isopropyl Acetate

Concen: 2.000 ug/l

RT: 5.80 min Scan# 1620

Delta R.T. 0.25 min

Lab File: VU024534.D

Acq: 14 Jun 2018 13:02

Instrument :

MSVOA_U

ClientSampleId :

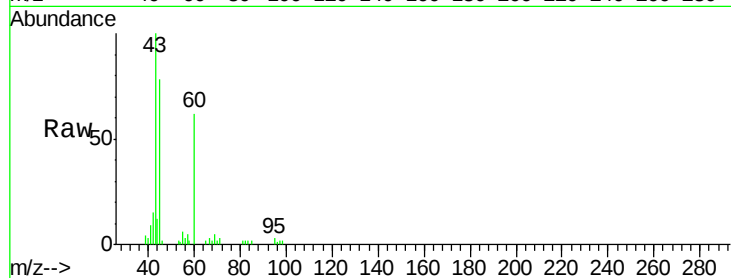
Tot Ion: 43 Resp: 13316

Ion Ratio Lower Upper

43 100

61 1.0 15.4 23.0#

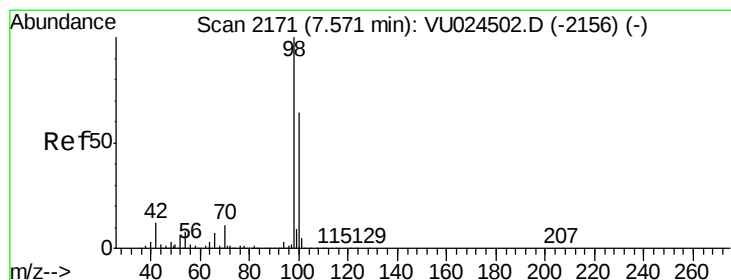
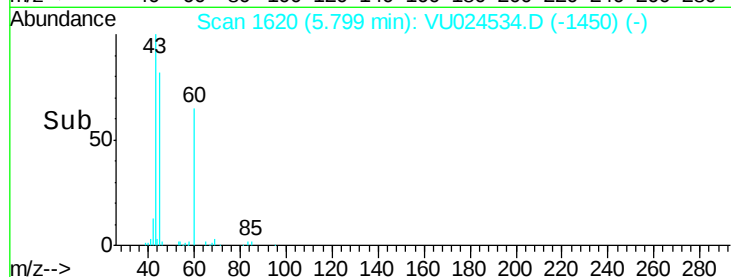
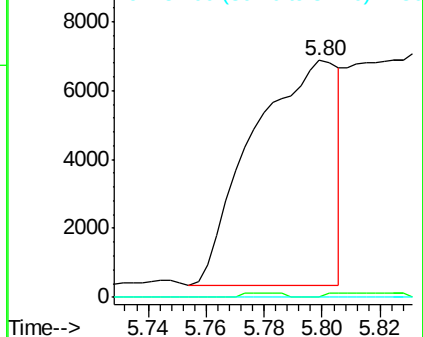
87 0.0 10.0 15.0#



Abundance Ion 43.00 (42.70 to 43.70): VU024534.D (-1620) (-)

Ion 61.00 (60.70 to 61.70): VU024534.D (-1620) (-)

Ion 87.00 (86.70 to 87.70): VU024534.D (-1620) (-)



#50

Toluene-d8

Concen: 48.798 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. 0.00 min

Lab File: VU024534.D

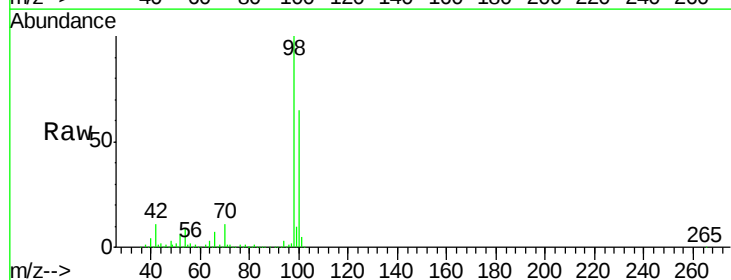
Acq: 14 Jun 2018 13:02

Tgt Ion: 98 Resp: 444359

Ion Ratio Lower Upper

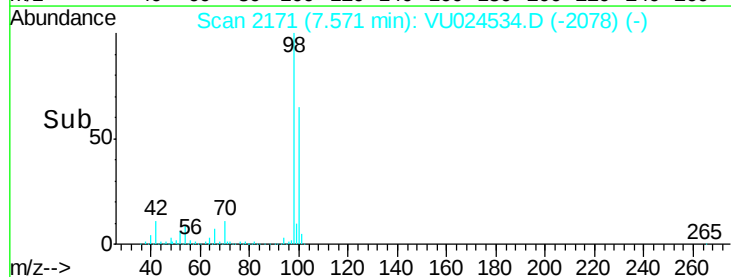
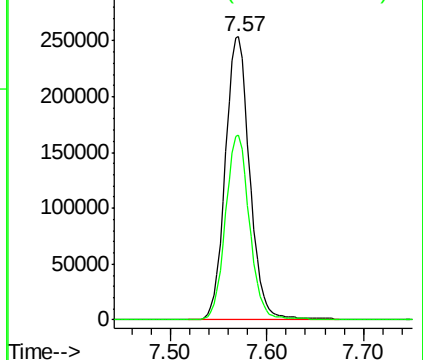
98 100

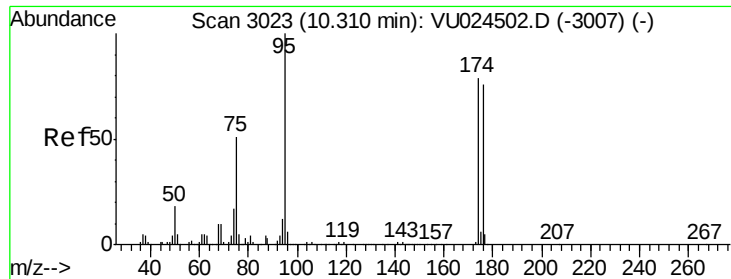
100 64.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VU024534.D (-2171) (-)

Ion 100.00 (99.70 to 100.70): VU024534.D (-2171) (-)

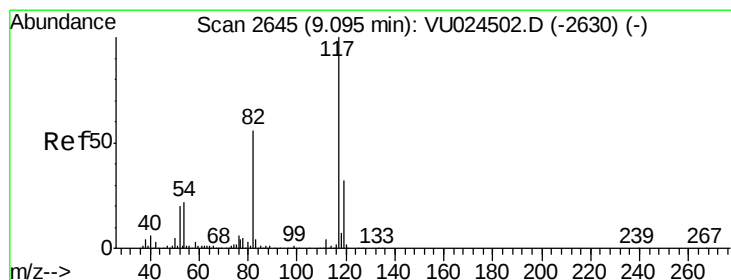
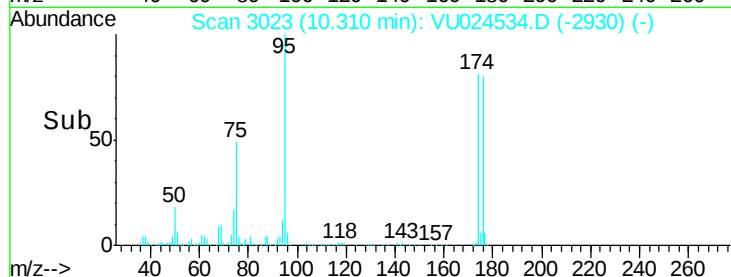
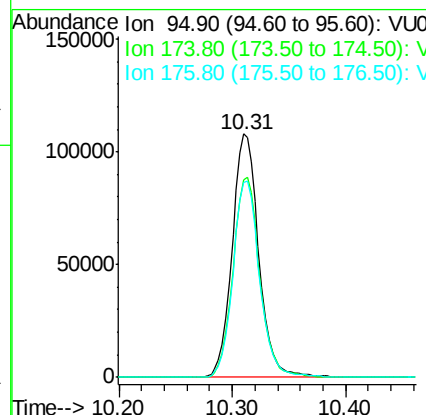
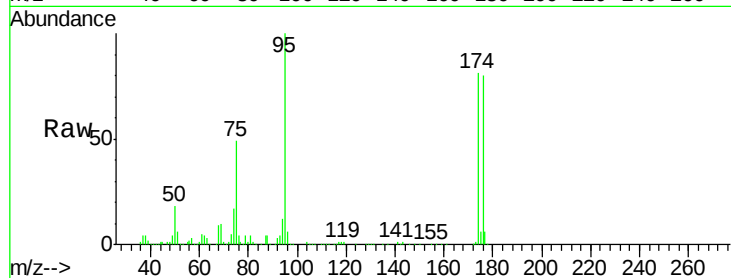




#62
4-Bromofluorobenzene
Concen: 48.790 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. 0.00 min
Lab File: VU024534.D
Acq: 14 Jun 2018 13:02

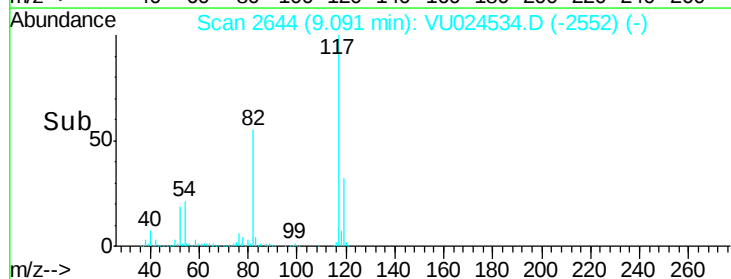
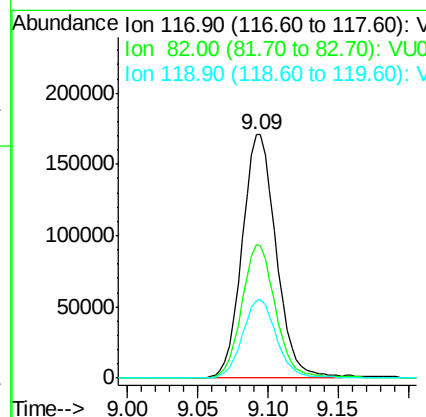
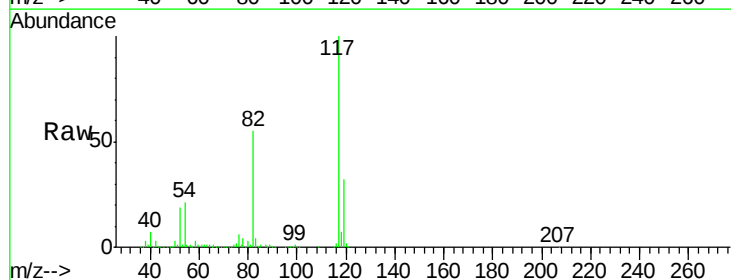
Instrument :
MSVOA_U
ClientSampleId :

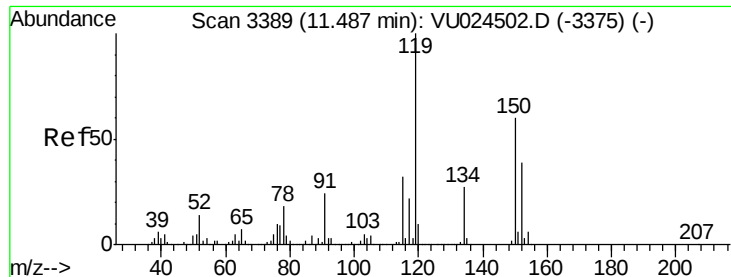
Tot Ion	95	Resp	176399
Ion Ratio	Lower	Upper	
95	100		
174	82.8	0.0	165.8
176	81.1	0.0	159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024534.D
Acq: 14 Jun 2018 13:02

Tgt Ion	117	Resp	289726
Ion Ratio	Lower	Upper	
117	100		
82	54.7	44.3	66.5
119	31.9	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: VU024534.D

Acq: 14 Jun 2018 13:02

Instrument :

MSVOA_U

ClientSampled :

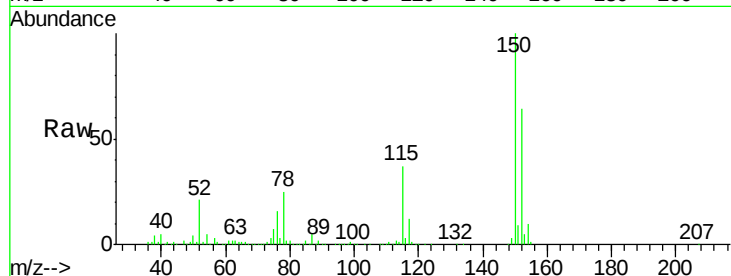
Tot Ion:152 Resp: 171887

Ion Ratio Lower Upper

152 100

115 57.8 43.0 129.0

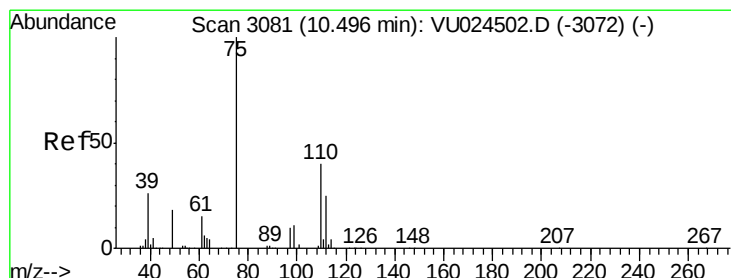
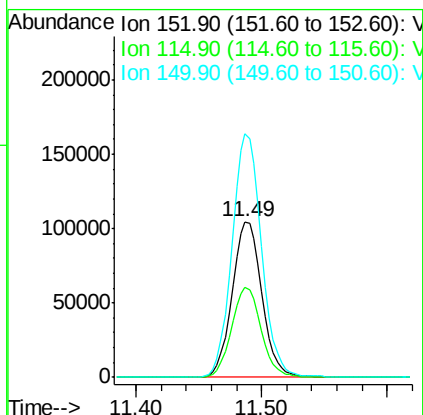
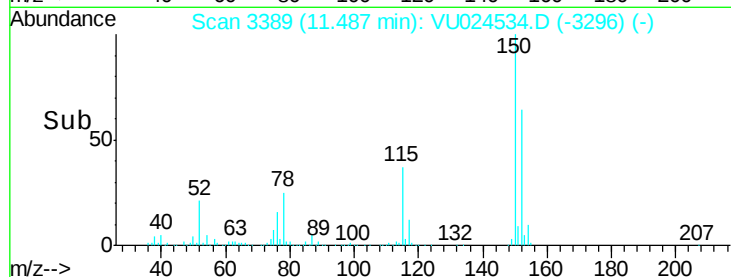
150 155.6 0.0 354.0



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: 22.929 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024534.D

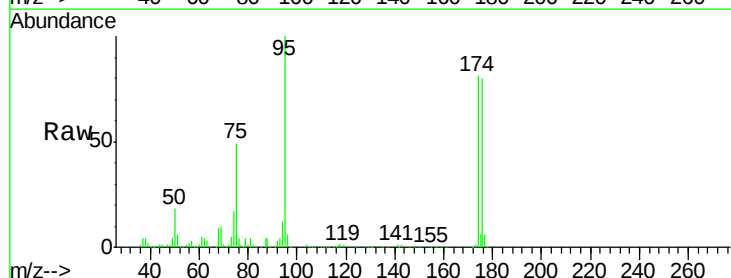
Acq: 14 Jun 2018 13:02

Tgt Ion: 75 Resp: 86771

Ion Ratio Lower Upper

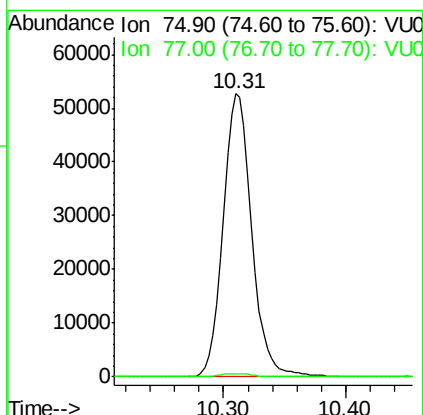
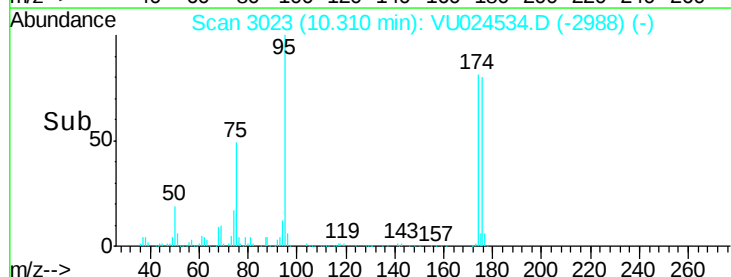
75 100

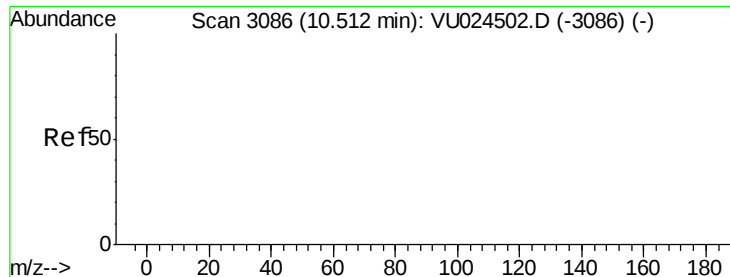
77 1.3 20.9 62.7#



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: 53.067 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024534.D

Acq: 14 Jun 2018 13:02

Instrument :

MSVOA_U

ClientSampleId :

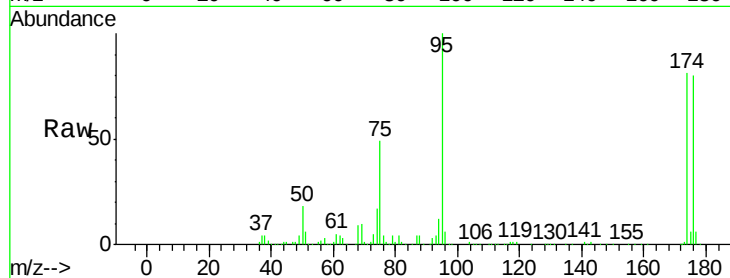
Tot Ion: 75 Resp: 86771

Ion Ratio Lower Upper

75 100

53 0.1 0.0 0.0#

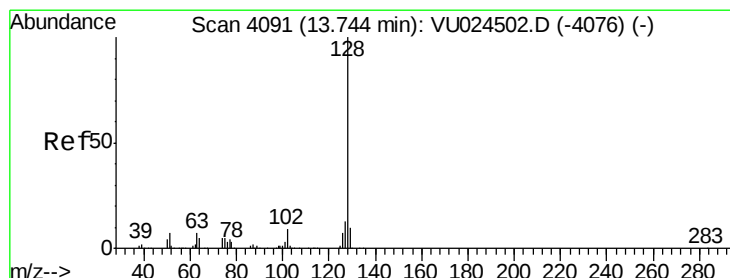
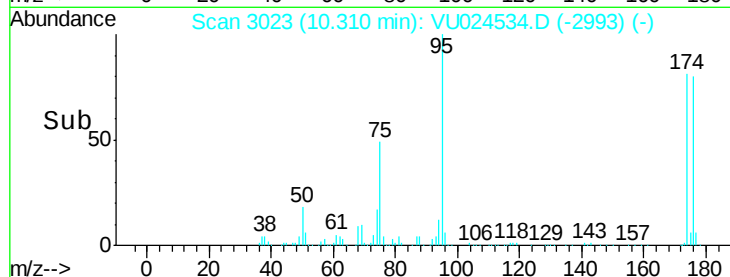
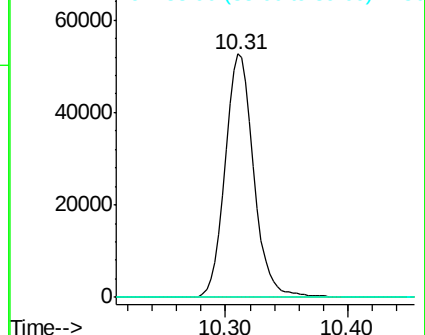
89 0.1 0.0 0.0#



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) (-)



#95

Naphthalene

Concen: 1.050 ug/l

RT: 13.76 min Scan# 4096

Delta R.T. 0.02 min

Lab File: VU024534.D

Acq: 14 Jun 2018 13:02

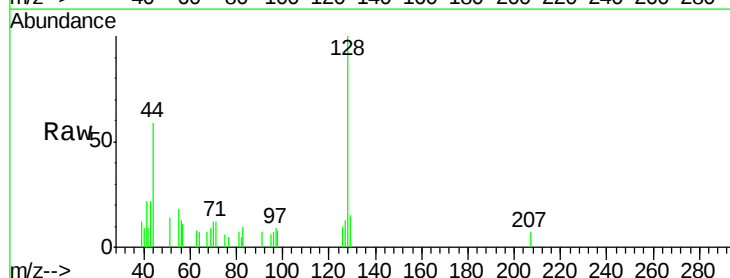
Tgt Ion:128 Resp: 4748

Ion Ratio Lower Upper

128 100

127 11.2 10.6 16.0

129 10.9 8.6 12.8



Abundance Ion 128.00 (127.70 to 128.70): VU024502.D (-4076) (-)

Ion 127.00 (126.70 to 127.70): VU024502.D (-4076) (-)

Ion 129.00 (128.70 to 129.70): VU024502.D (-4076) (-)

