

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU061318\
 Data File : VU024528.D
 Acq On : 14 Jun 2018 00:04
 Operator : MD/SY
 Sample : VU0613WBL02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 54 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0614WBS01

Quant Time: Jun 14 02:23:13 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	65197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	203950	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	231673	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	121662	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.32	65	78737	73.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	147.96%	
35) Dibromofluoromethane	4.89	113	85016	50.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.46%	
50) Toluene-d8	7.57	98	277530	44.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	89.90%	
62) 4-Bromofluorobenzene	10.31	95	122748	50.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.14%	

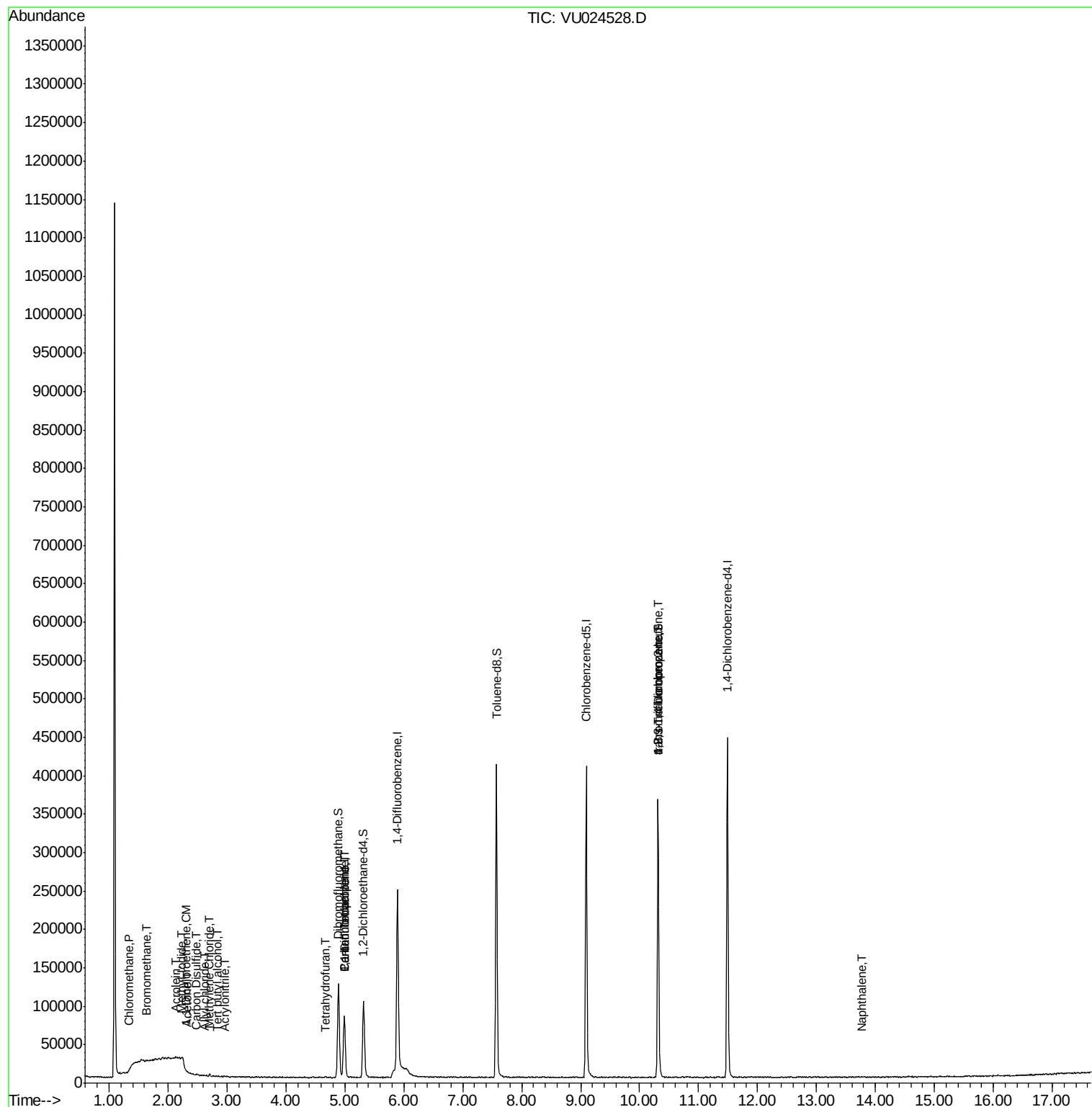
Target Compounds						Qvalue
3) Chloromethane	1.33	50	355	0.43	ug/l #	75
5) Bromomethane	1.64	94	176	0.42	ug/l #	11
6) Chloroethane	1.69	64	153	Below	Cal #	64
8) Diethyl Ether	2.11	74	503	Below	Cal	71
10) Methyl Iodide	2.22	142	68	5.38	ug/l #	25
11) Tert butyl alcohol	2.83	59	247	0.95	ug/l #	1
12) 1,1-Dichloroethene	2.32	96	149	0.20	ug/l #	1
13) Acrolein	2.14	56	91	0.67	ug/l #	1
14) Allyl chloride	2.62	41	611	0.44	ug/l #	40
15) Acrylonitrile	2.96	53	295	0.59	ug/l #	24
16) Acetone	2.33	43	823	1.44	ug/l #	61
17) Carbon Disulfide	2.48	76	591	0.25	ug/l #	35
20) Methylene Chloride	2.71	84	1963	2.19	ug/l #	83
29) Tetrahydrofuran	4.66	42	442	0.93	ug/l	94
31) Cyclohexane	4.87	56	140	Below	Cal	95
36) 1,1-Dichloropropene	4.99	75	4361	1.82	ug/l #	50
38) Carbon Tetrachloride	4.99	117	6146	2.33	ug/l #	20
76) 1,2,3-Trichloropropane	10.31	75	61742	23.05	ug/l #	36
81) trans-1,4-Dichloro-2-buten	10.31	75	61742	53.35	ug/l #	100
95) Naphthalene	13.76	128	43	0.68	ug/l #	69

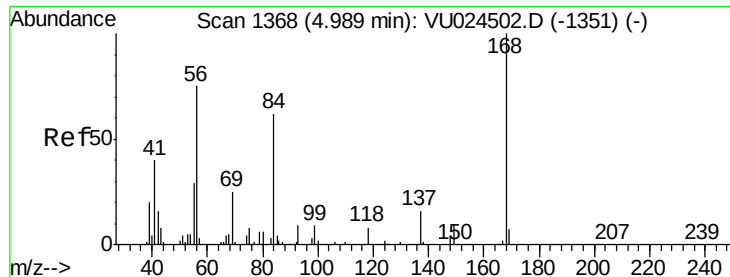
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 4.99 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

Instrument :

MSVOA_U

ClientSampleId :

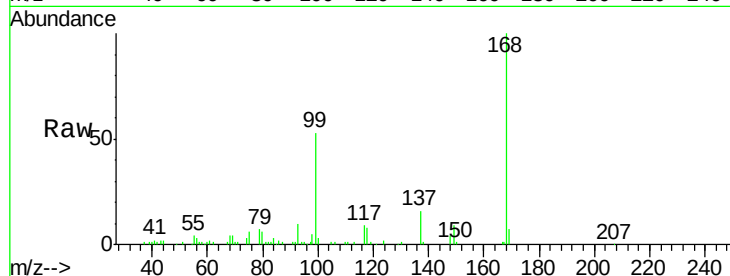
VU0614WBS01

Tgt Ion:168 Resp: 65197

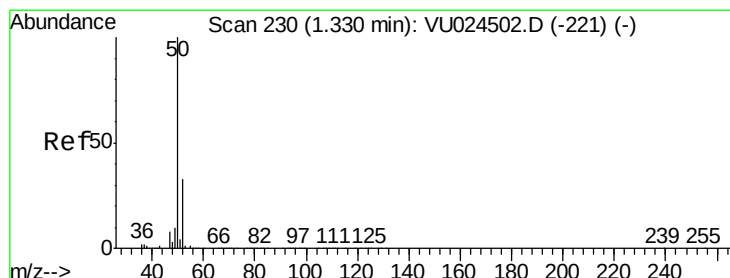
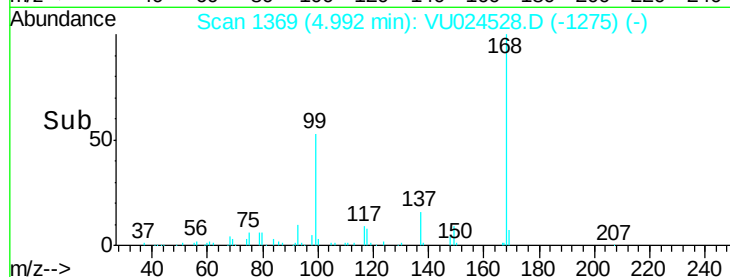
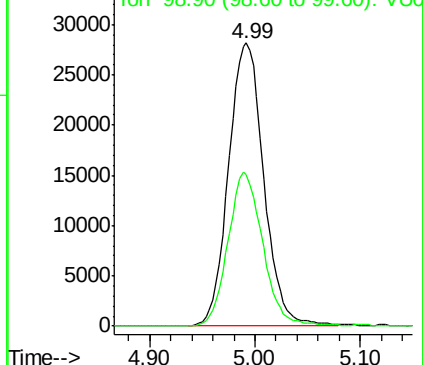
Ion Ratio Lower Upper

168 100

99 53.0 43.2 64.8



Abundance Ion 167.90 (167.60 to 168.60): VU024528.D (-1275) (-)



#3

Chloromethane

Concen: 0.43 ug/l

RT: 1.33 min Scan# 230

Delta R.T. 0.00 min

Lab File: VU024528.D

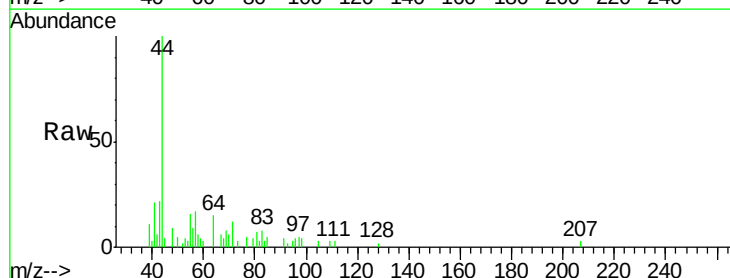
Acq: 14 Jun 2018 00:04

Tgt Ion: 50 Resp: 355

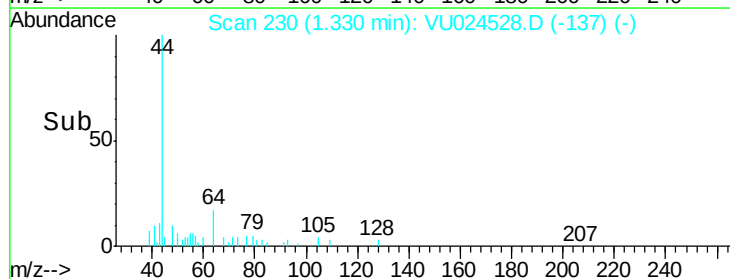
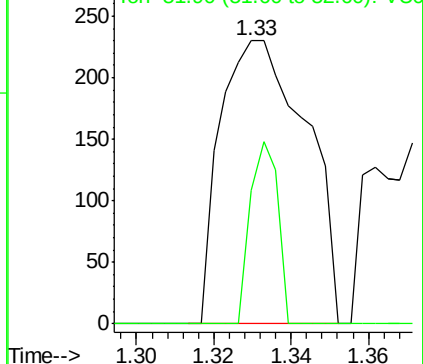
Ion Ratio Lower Upper

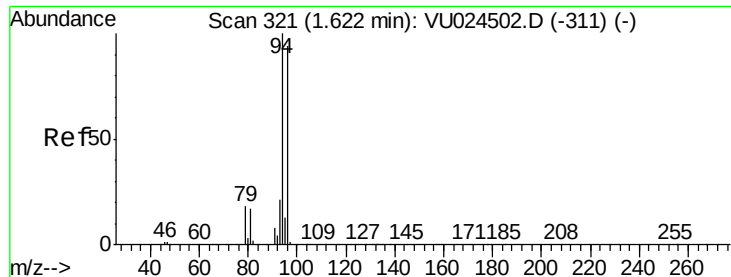
50 100

52 47.4 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VU024528.D (-137) (-)





#5

Bromomethane

Concen: 0.42 ug/l

RT: 1.64 min Scan# 326

Delta R.T. 0.02 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

Instrument :

MSVOA_U

ClientSampleId :

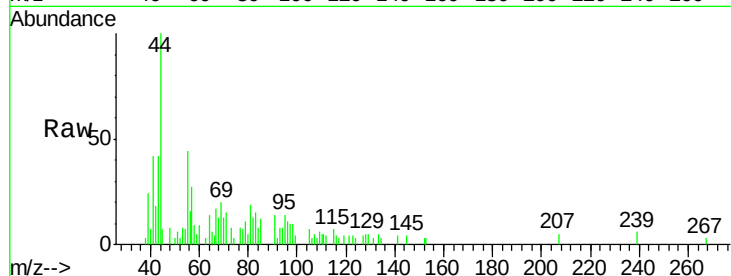
VU0614WBS01

Tgt Ion: 94 Resp: 176

Ion Ratio Lower Upper

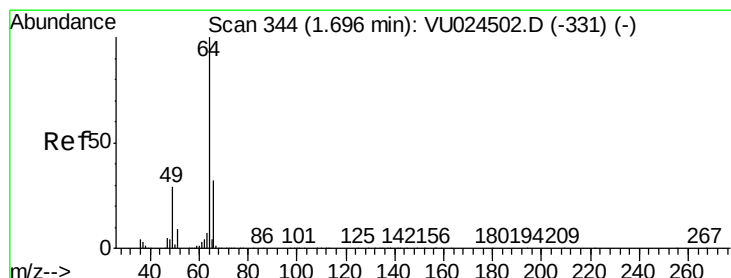
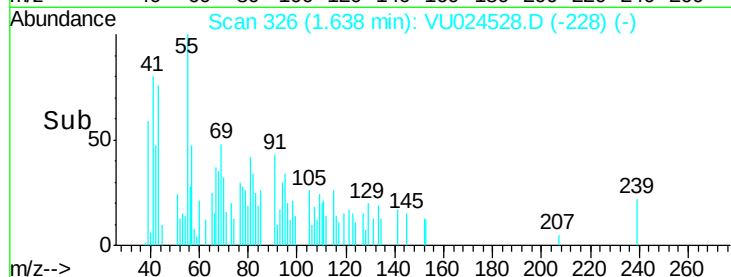
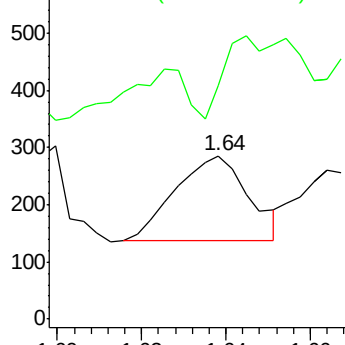
94 100

96 8.1 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: VU024528.D

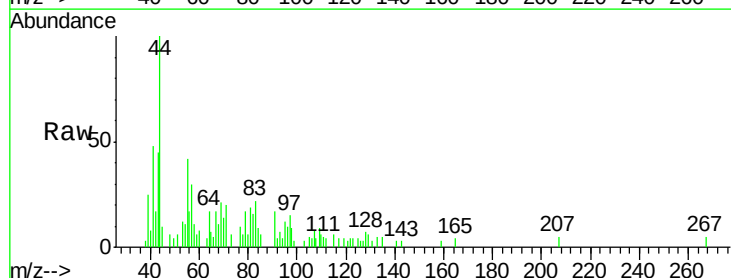
Acq: 14 Jun 2018 00:04

Tgt Ion: 64 Resp: 153

Ion Ratio Lower Upper

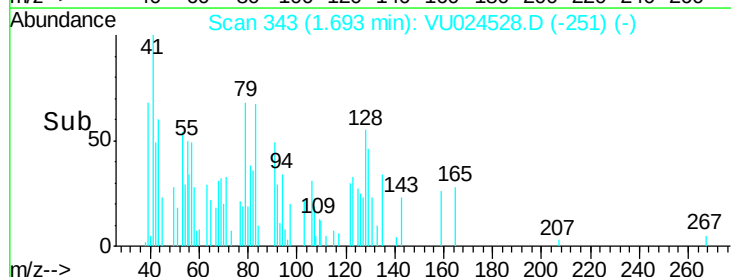
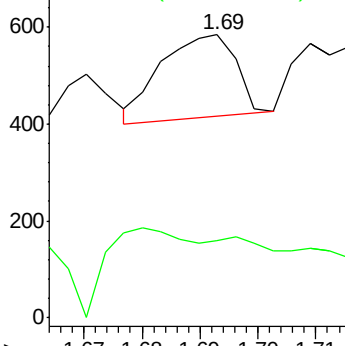
64 100

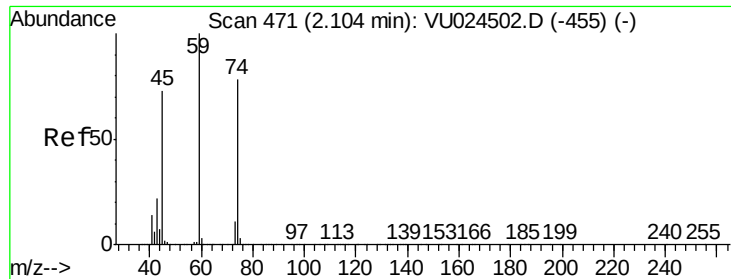
66 12.1 25.5 38.3#



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: 2.11 min Scan# 473

Delta R.T. 0.01 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

Instrument :

MSVOA_U

ClientSampleId :

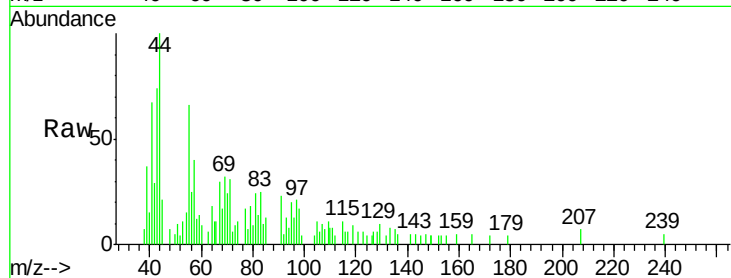
VU0614WBS01

Tgt Ion: 74 Resp: 503

Ion Ratio Lower Upper

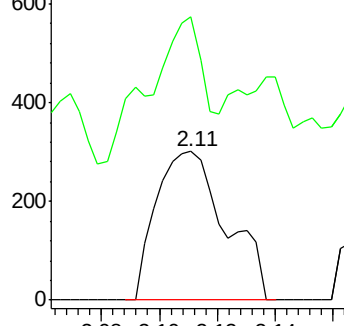
74 100

45 79.1 55.0 165.0

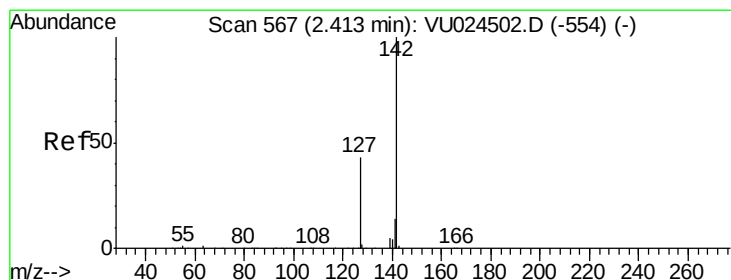
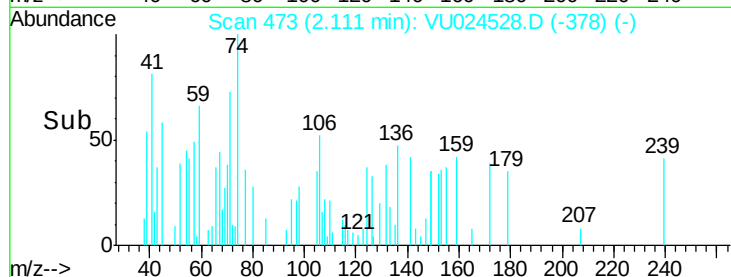


Abundance Ion 74.00 (73.70 to 74.70): VU0

Ion 45.00 (44.70 to 45.70): VU0



Time-->



#10

Methyl Iodide

Concen: 5.38 ug/l

RT: 2.22 min Scan# 506

Delta R.T. -0.20 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

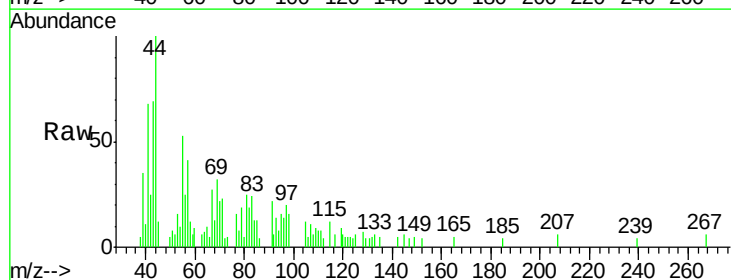
Tgt Ion: 142 Resp: 68

Ion Ratio Lower Upper

142 100

127 101.5 35.6 53.4#

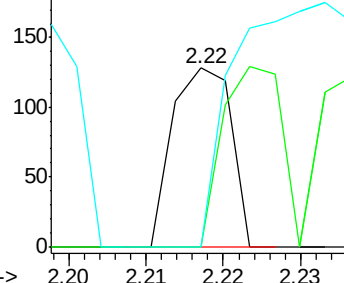
141 0.0 11.7 17.5#



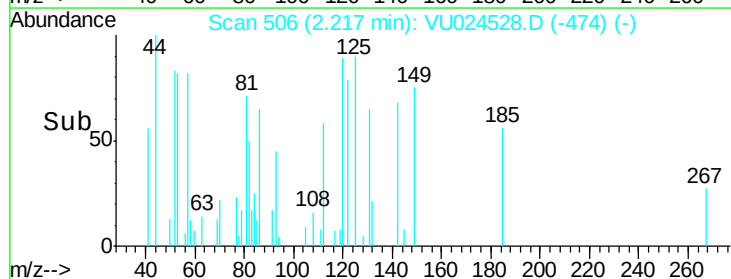
Abundance Ion 141.80 (141.50 to 142.50): V

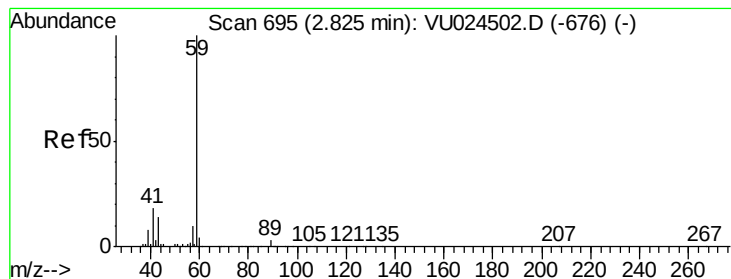
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->





#11

Tert butyl alcohol

Concen: 0.95 ug/l

RT: 2.83 min Scan# 698

Delta R.T. 0.01 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

Instrument :

MSVOA_U

ClientSampleId :

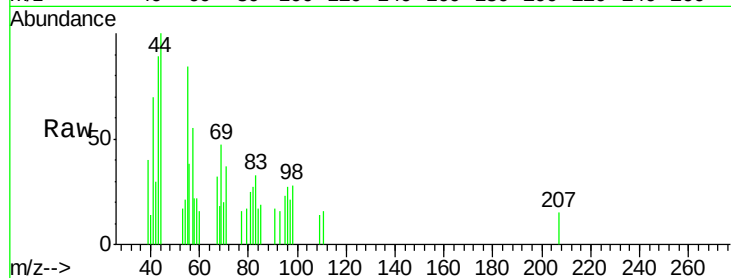
VU0614WBS01

Tgt Ion: 59 Resp: 247

Ion Ratio Lower Upper

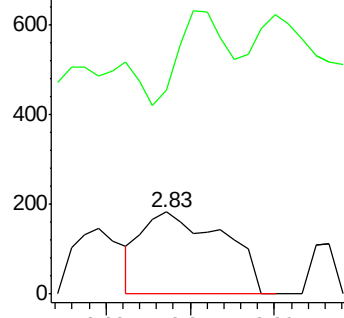
59 100

57 66.4 8.5 12.7#

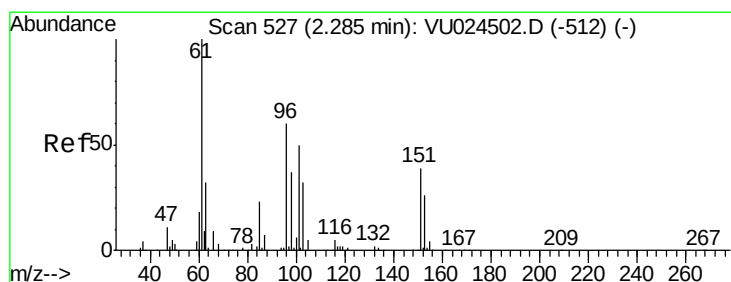
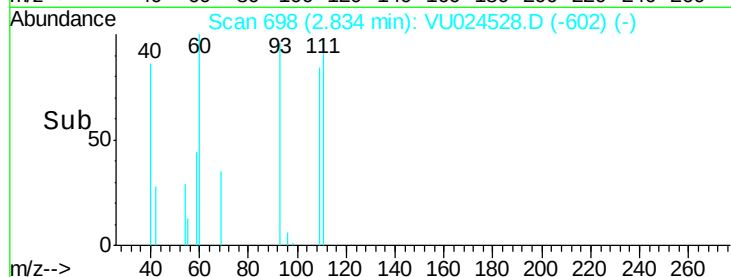


Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0



Time-->



#12

1,1-Dichloroethene

Concen: 0.20 ug/l

RT: 2.32 min Scan# 538

Delta R.T. 0.04 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

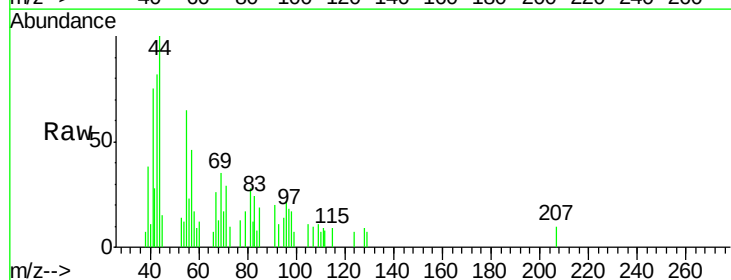
Tgt Ion: 96 Resp: 149

Ion Ratio Lower Upper

96 100

61 0.0 141.7 212.5#

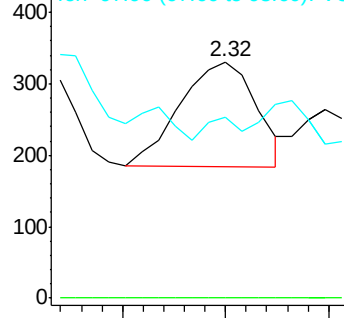
98 6.2 51.6 77.4#



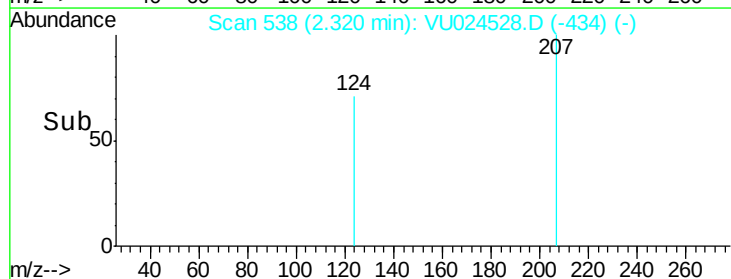
Abundance Ion 95.90 (95.60 to 96.60): VU0

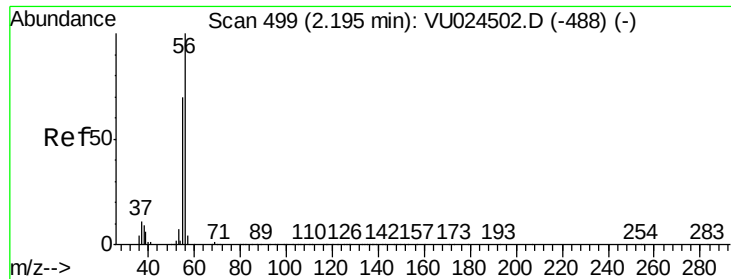
Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



Time-->





#13

Acrolein

Concen: 0.67 ug/l

RT: 2.14 min Scan# 482

Delta R.T. -0.05 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

Instrument :

MSVOA_U

ClientSampleId :

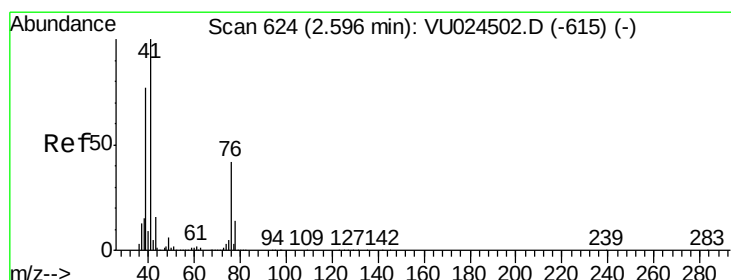
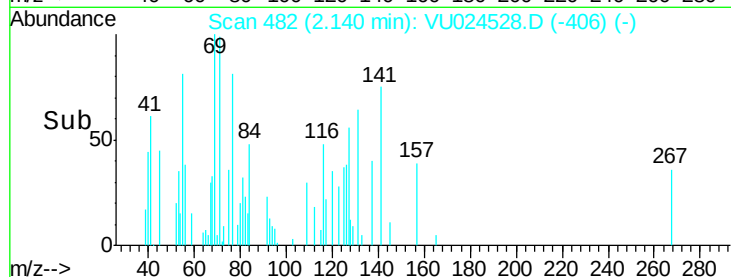
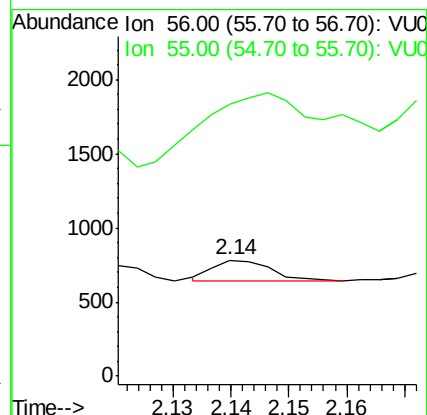
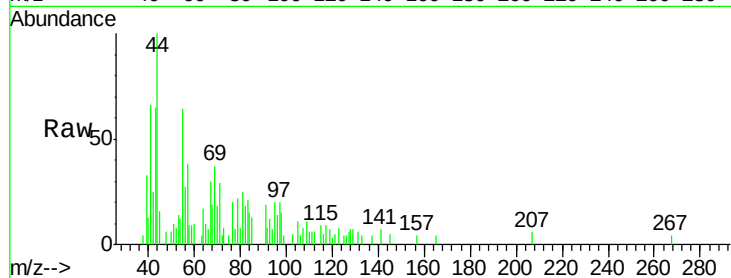
VU0614WBS01

Tgt Ion: 56 Resp: 91

Ion Ratio Lower Upper

56 100

55 791.2 58.4 87.6#



#14

Allyl chloride

Concen: 0.44 ug/l

RT: 2.62 min Scan# 630

Delta R.T. 0.02 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

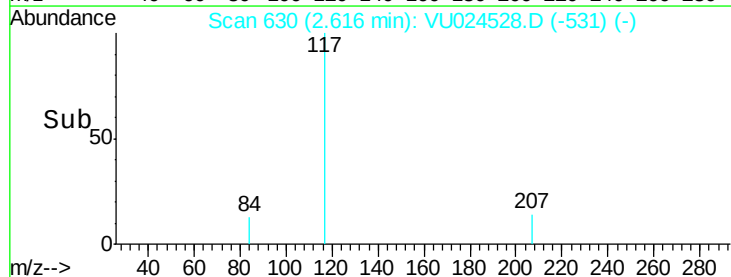
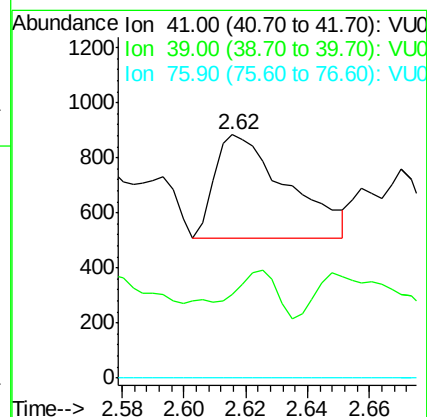
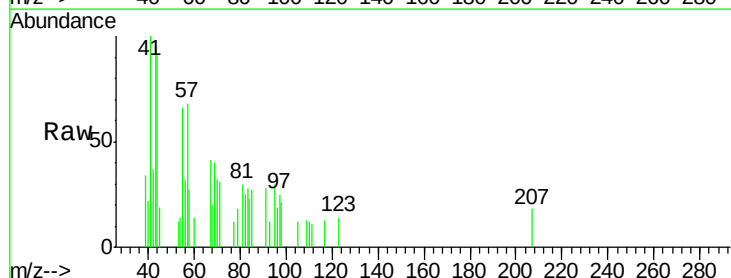
Tgt Ion: 41 Resp: 611

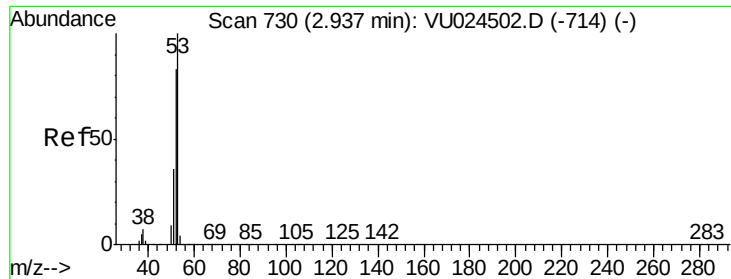
Ion Ratio Lower Upper

41 100

39 26.4 61.6 92.4#

76 0.0 29.7 44.5#





#15

Acrylonitrile

Concen: 0.59 ug/l

RT: 2.96 min Scan# 736

Delta R.T. 0.02 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

Instrument :

MSVOA_U

ClientSampleId :

VU0614WBS01

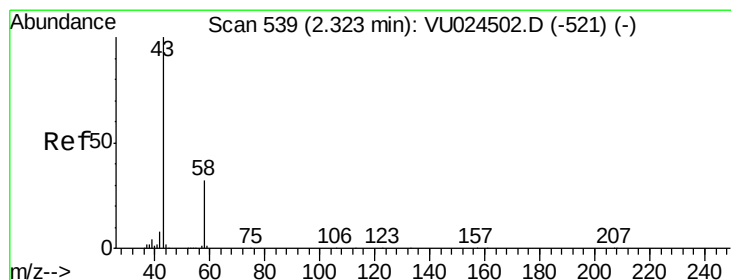
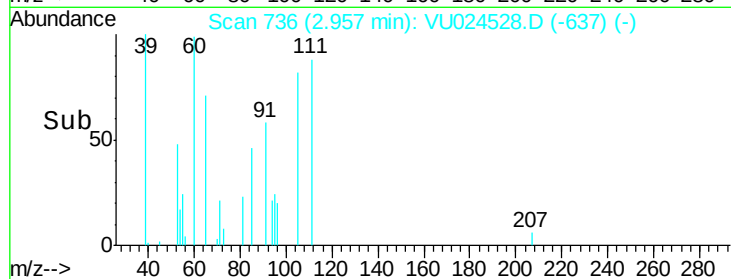
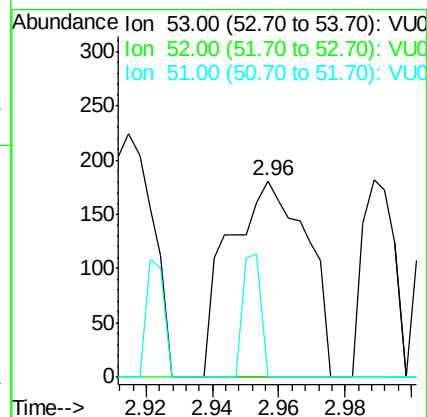
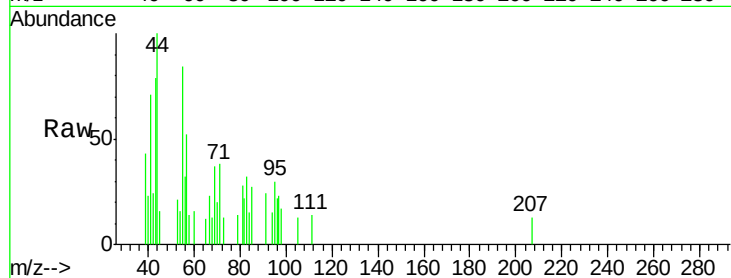
Tgt Ion: 53 Resp: 295

Ion Ratio Lower Upper

53 100

52 0.0 67.1 100.7#

51 14.6 28.4 42.6#



#16

Acetone

Concen: 1.44 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024528.D

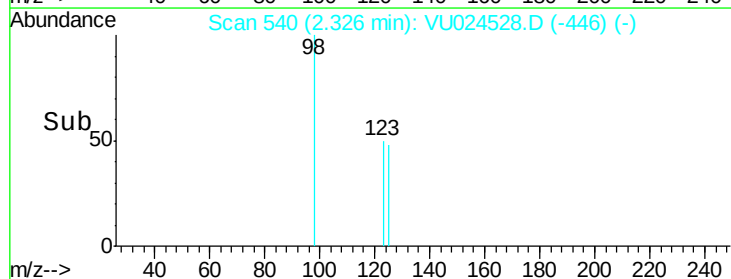
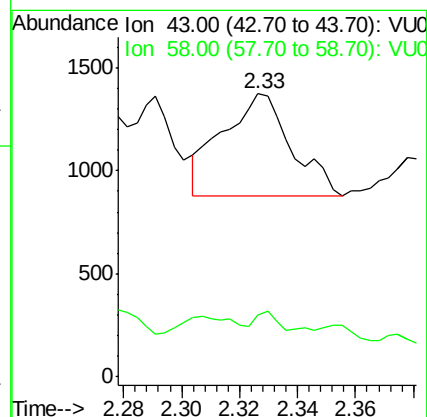
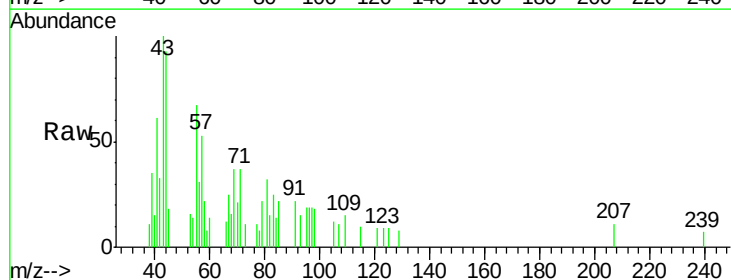
Acq: 14 Jun 2018 00:04

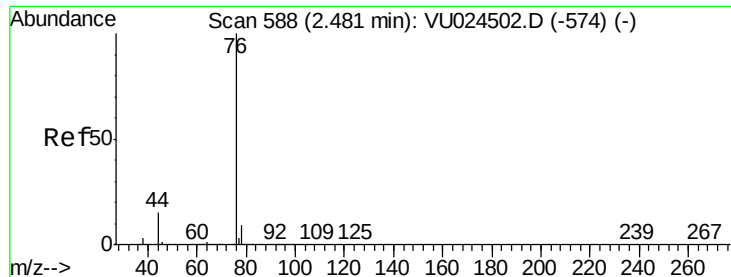
Tgt Ion: 43 Resp: 823

Ion Ratio Lower Upper

43 100

58 9.5 24.4 36.6#

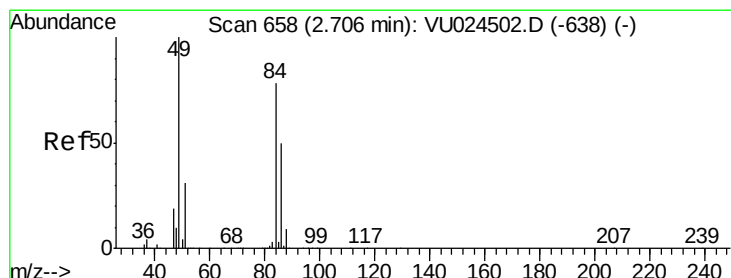
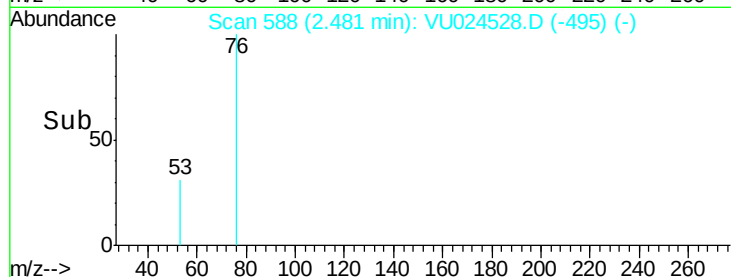
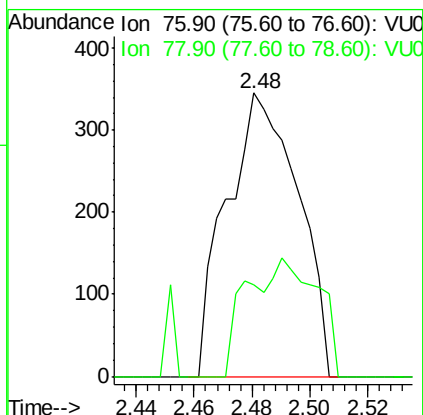
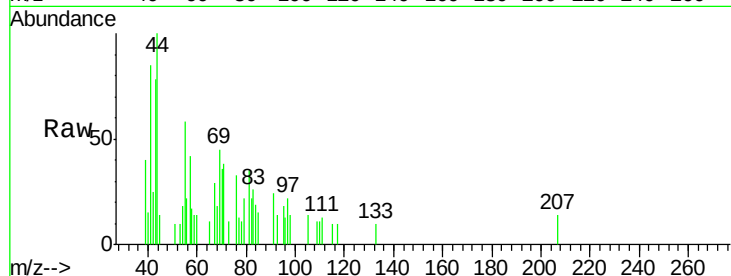




#17
Carbon Disulfide
Concen: 0.25 ug/l
RT: 2.48 min Scan# 588
Delta R.T. 0.00 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

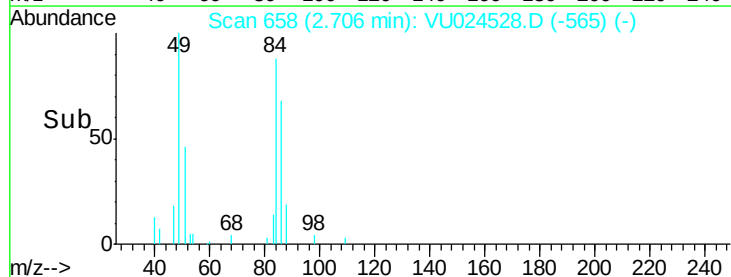
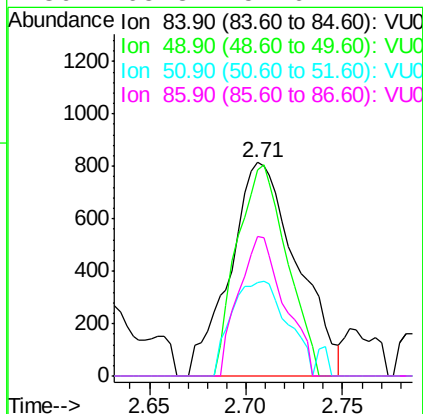
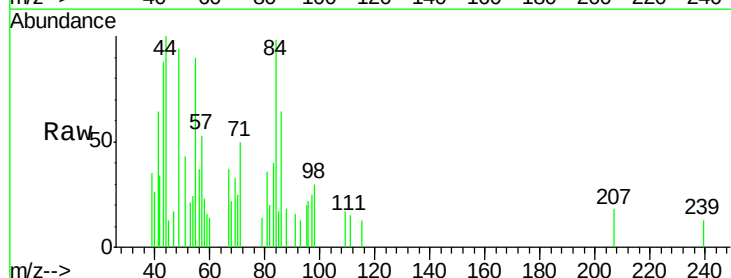
Instrument :
MSVOA_U
ClientSampleId :
VU0614WBS01

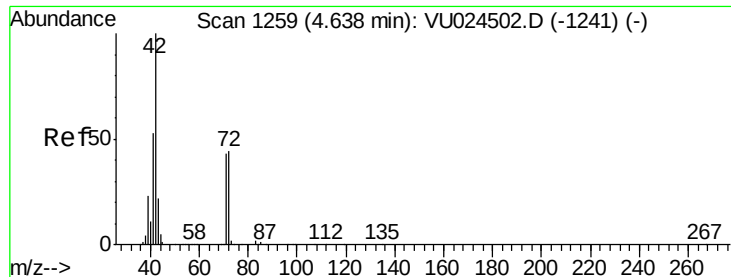
Tgt Ion: 76 Resp: 591
Ion Ratio Lower Upper
76 100
78 32.5 7.1 10.7#



#20
Methylene Chloride
Concen: 2.19 ug/l
RT: 2.71 min Scan# 658
Delta R.T. 0.00 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

Tgt Ion: 84 Resp: 1963
Ion Ratio Lower Upper
84 100
49 96.3 103.8 155.8#
51 44.0 32.0 48.0
86 65.3 51.6 77.4

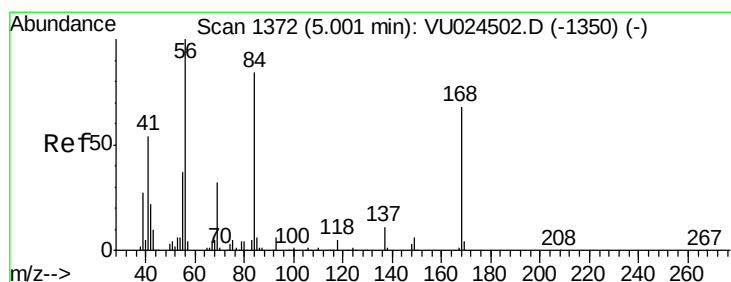
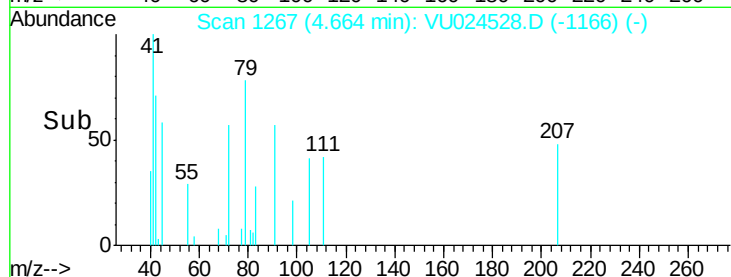
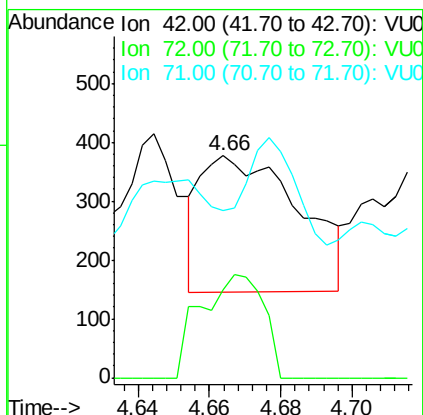
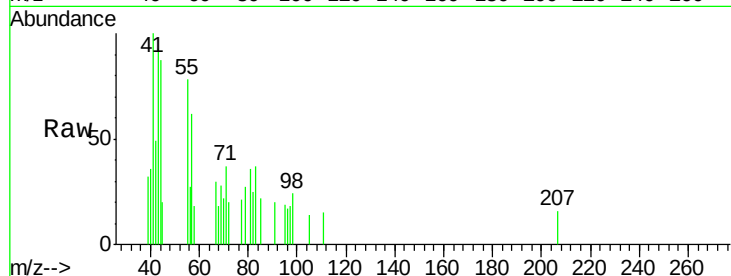




#29
Tetrahydrofuran
Concen: 0.93 ug/l
RT: 4.66 min Scan# 1267
Delta R.T. 0.03 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

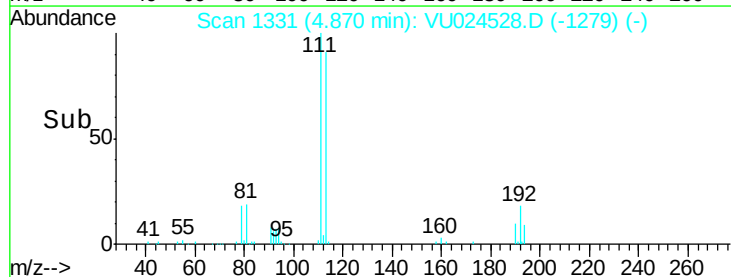
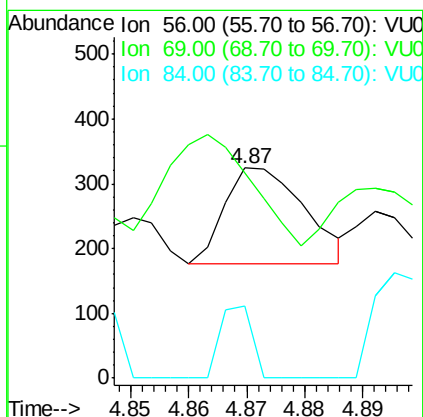
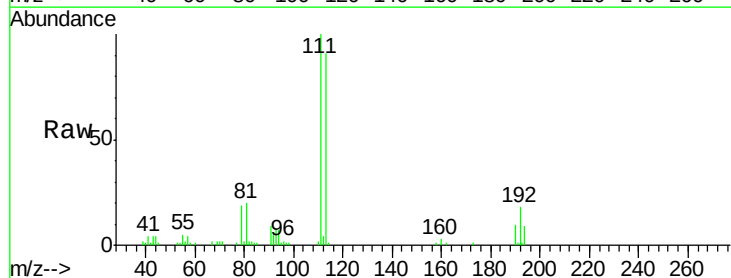
Instrument :
MSVOA_U
ClientSampleId :
VU0614WBS01

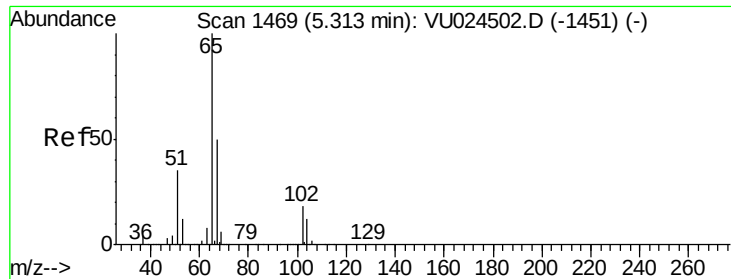
Tgt Ion: 42 Resp: 442
Ion Ratio Lower Upper
42 100
72 48.2 34.5 51.7
71 38.2 32.2 48.4



#31
Cyclohexane
Concen: Below Cal
RT: 4.87 min Scan# 1331
Delta R.T. -0.13 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

Tgt Ion: 56 Resp: 140
Ion Ratio Lower Upper
56 100
69 30.6 24.8 37.2
84 76.2 65.2 97.8

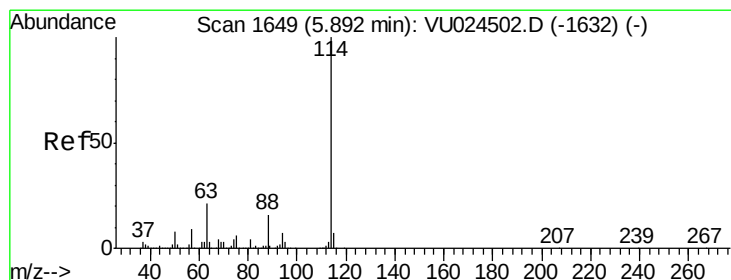
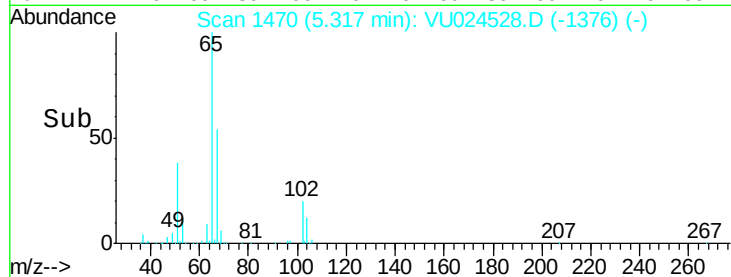
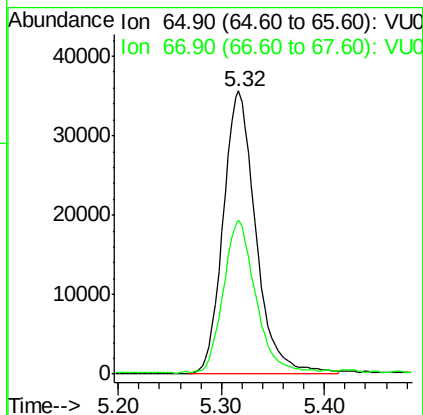
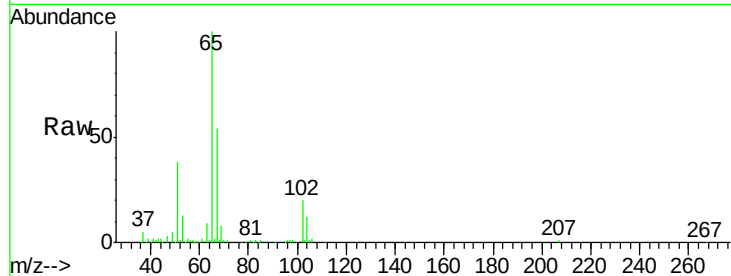




#33
 1,2-Dichloroethane-d4
 Concen: 73.98 ug/l
 RT: 5.32 min Scan# 1470
 Delta R.T. 0.00 min
 Lab File: VU024528.D
 Acq: 14 Jun 2018 00:04

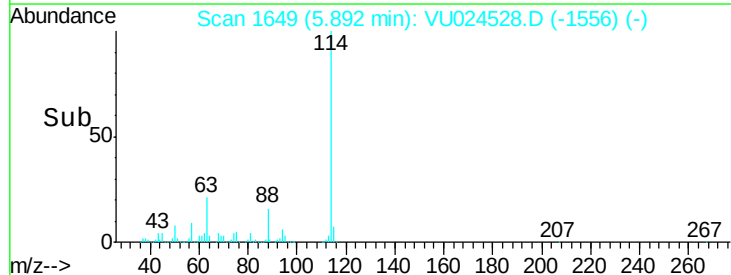
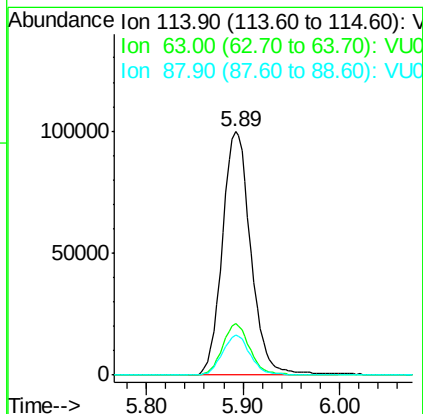
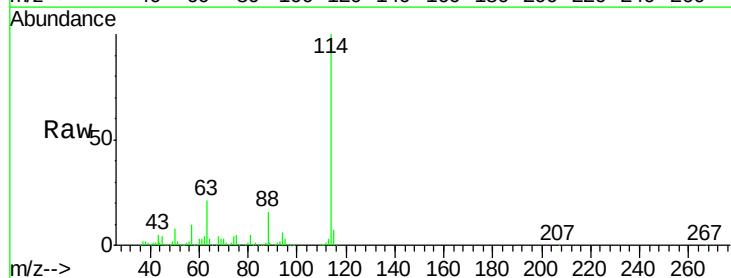
Instrument :
 MSVOA_U
 ClientSampleId :
 VU0614WBS01

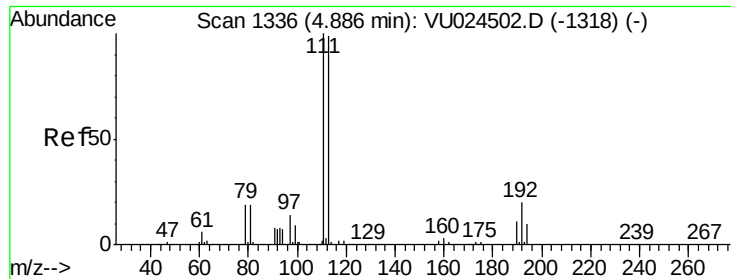
Tgt Ion: 65 Resp: 78737
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 107.0



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 5.89 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU024528.D
 Acq: 14 Jun 2018 00:04

Tgt Ion: 114 Resp: 203950
 Ion Ratio Lower Upper
 114 100
 63 21.0 0.0 45.4
 88 16.3 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.23 ug/l

RT: 4.89 min Scan# 1338

Delta R.T. 0.01 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

Instrument :

MSVOA_U

ClientSampleId :

VU0614WBS01

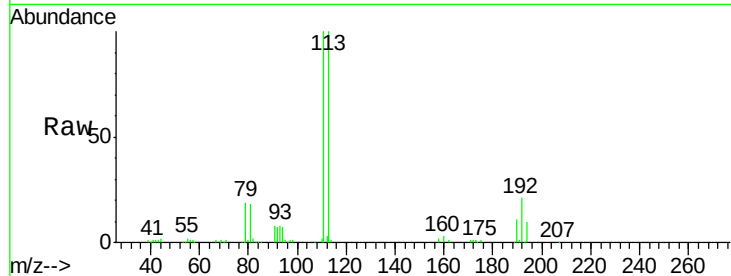
Tgt Ion:113 Resp: 85016

Ion Ratio Lower Upper

113 100

111 102.8 82.2 123.4

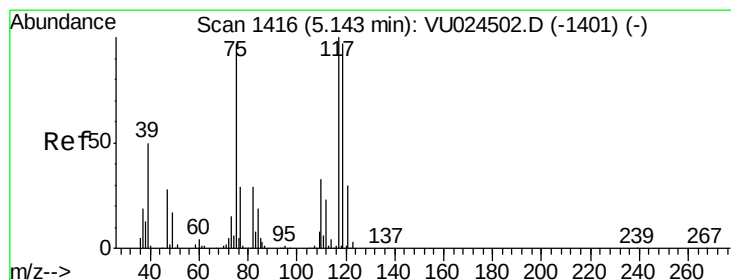
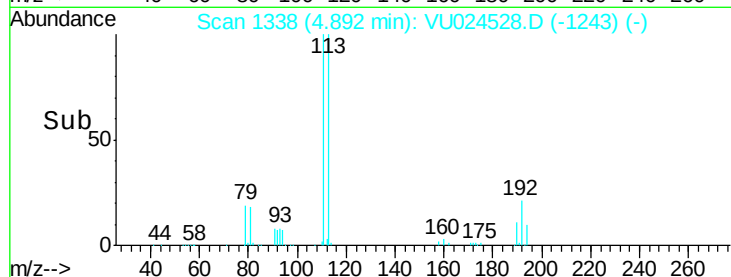
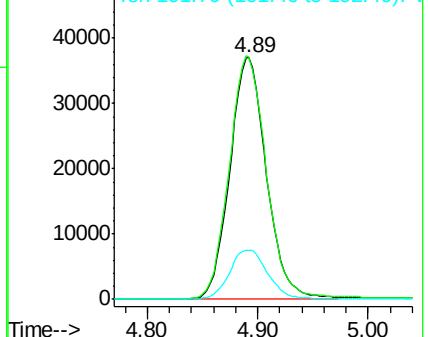
192 21.2 16.2 24.4



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: 1.82 ug/l

RT: 4.99 min Scan# 1367

Delta R.T. -0.16 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

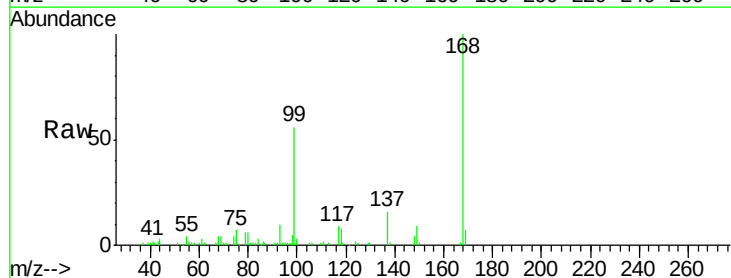
Tgt Ion: 75 Resp: 4361

Ion Ratio Lower Upper

75 100

110 7.9 17.0 50.9#

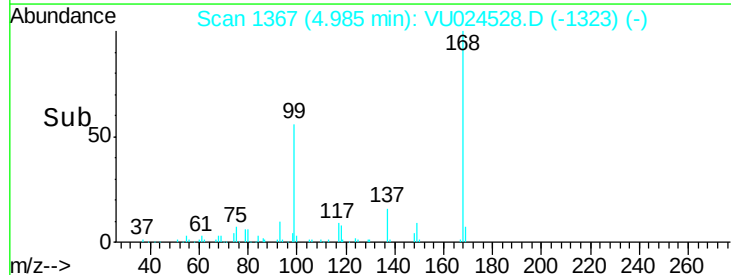
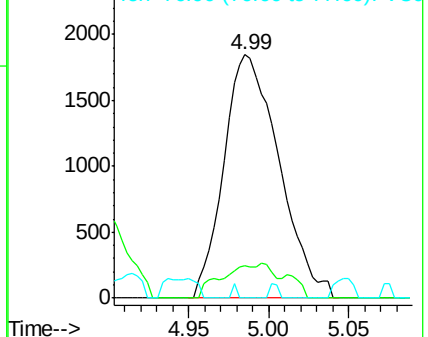
77 0.5 24.2 36.4#

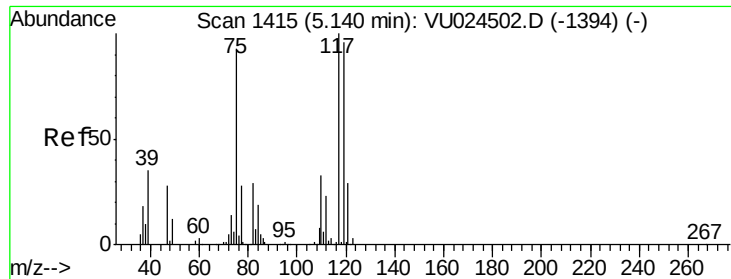


Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VU0

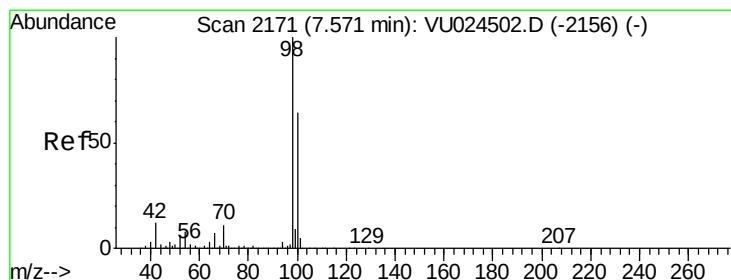
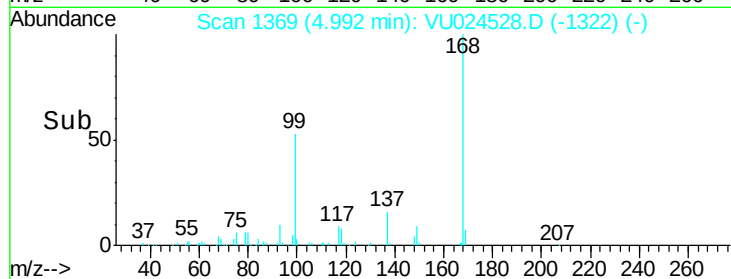
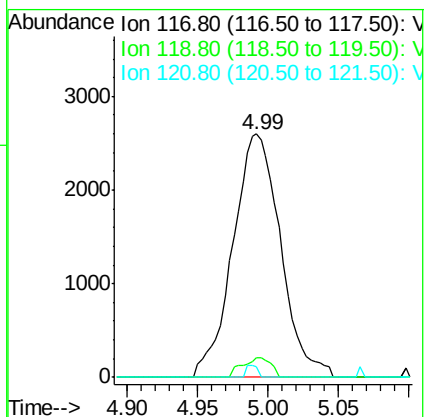
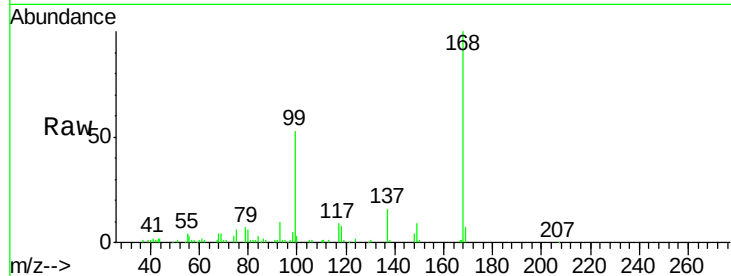




#38
Carbon Tetrachloride
Concen: 2.33 ug/l
RT: 4.99 min Scan# 1369
Delta R.T. -0.15 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

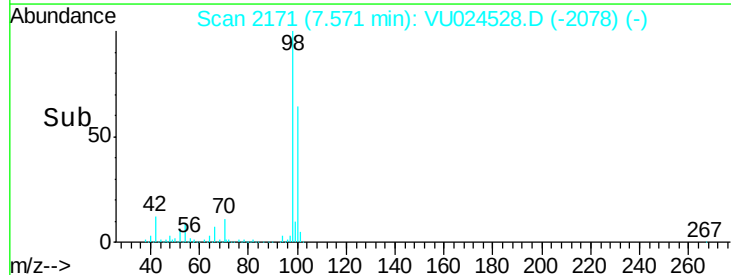
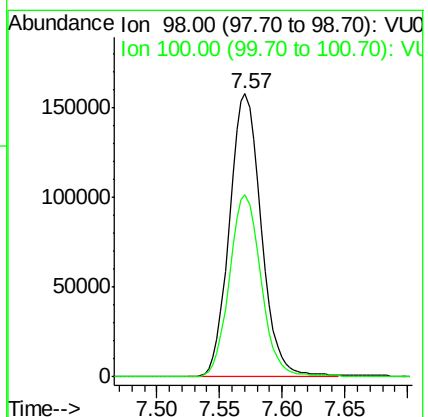
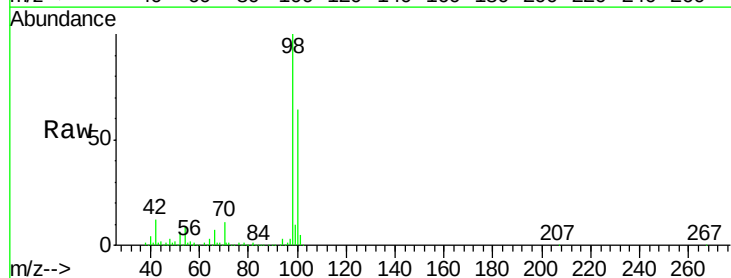
Instrument :
MSVOA_U
ClientSampleId :
VU0614WBS01

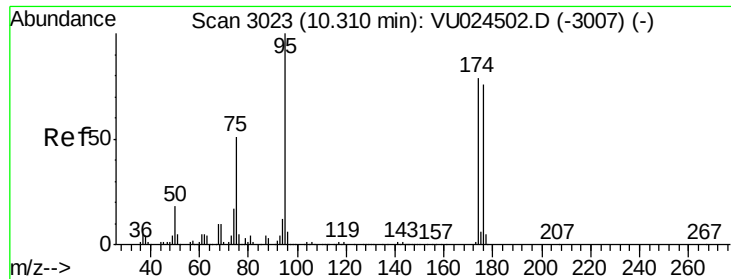
Tgt Ion:117 Resp: 6146
Ion Ratio Lower Upper
117 100
119 7.9 76.1 114.1#
121 4.3 23.7 35.5#



#50
Toluene-d8
Concen: 44.95 ug/l
RT: 7.57 min Scan# 2171
Delta R.T. 0.00 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

Tgt Ion: 98 Resp: 277530
Ion Ratio Lower Upper
98 100
100 64.5 51.1 76.7

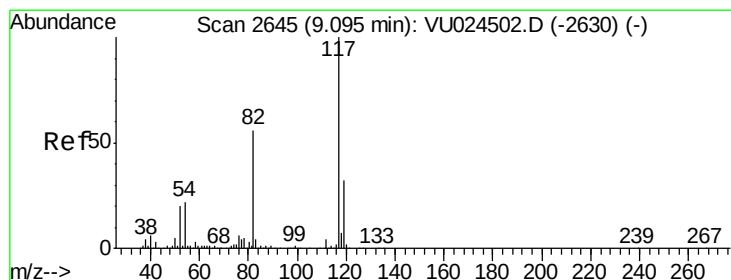
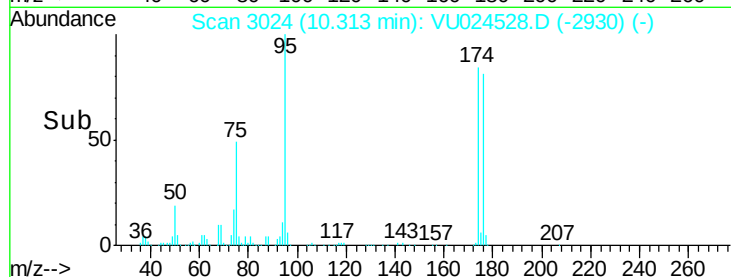
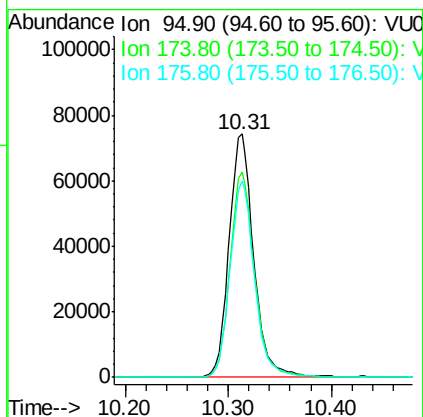
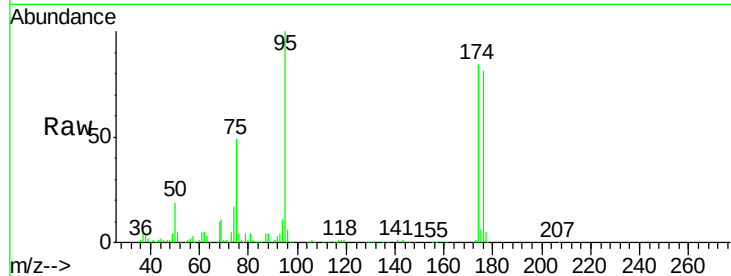




#62
4-Bromofluorobenzene
Concen: 50.07 ug/l
RT: 10.31 min Scan# 3024
Delta R.T. 0.00 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

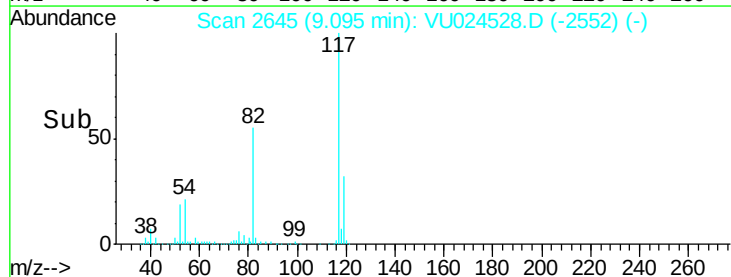
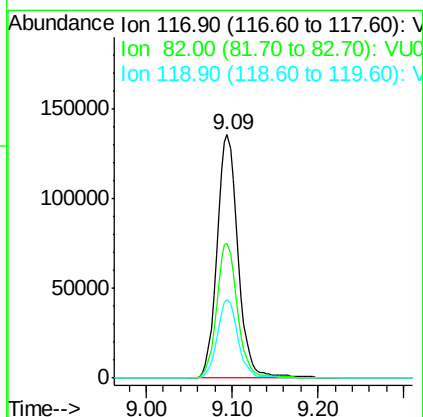
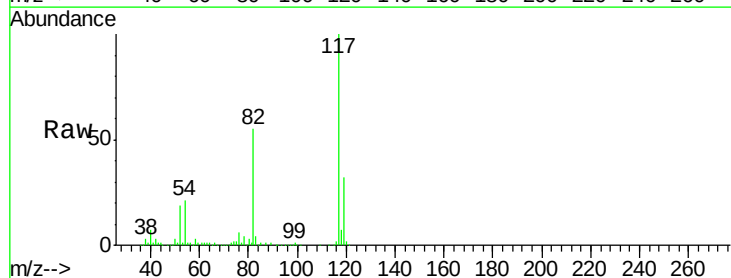
Instrument :
MSVOA_U
ClientSampleId :
VU0614WBS01

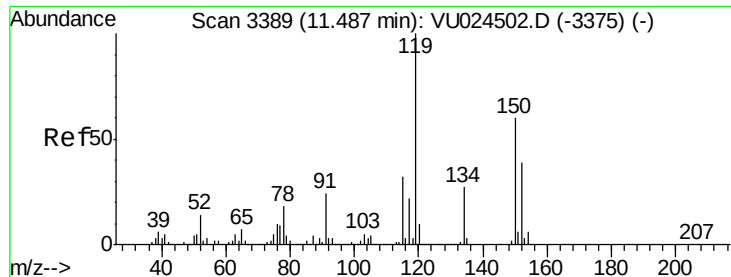
Tgt Ion: 95 Resp: 122748
Ion Ratio Lower Upper
95 100
174 84.5 0.0 165.8
176 80.8 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 9.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

Tgt Ion: 117 Resp: 231673
Ion Ratio Lower Upper
117 100
82 55.2 44.3 66.5
119 32.2 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 11.49 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VU024528.D

Acq: 14 Jun 2018 00:04

Instrument :

MSVOA_U

ClientSampleId :

VU0614WBS01

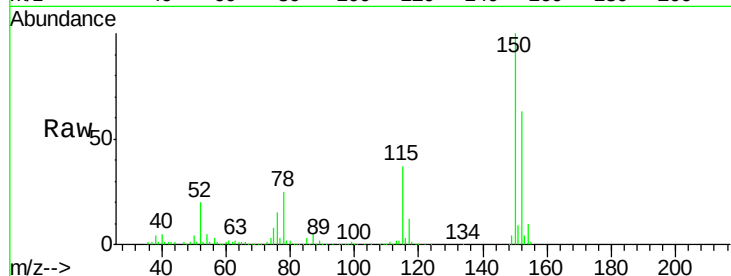
Tgt Ion:152 Resp: 121662

Ion Ratio Lower Upper

152 100

115 57.7 43.0 129.0

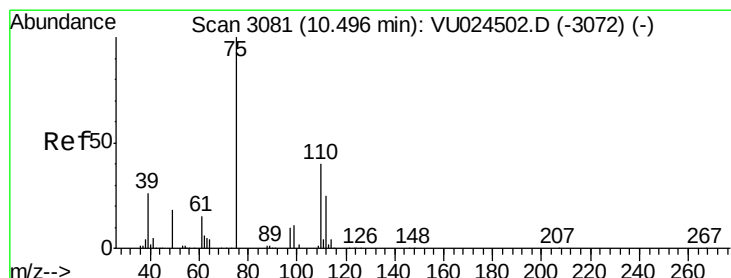
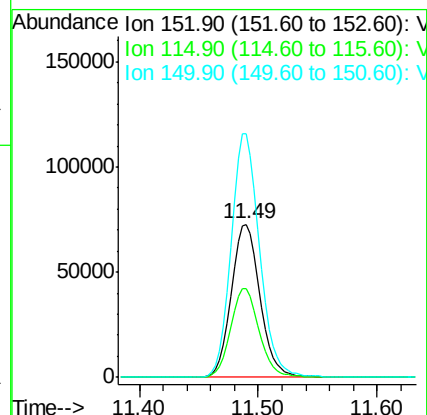
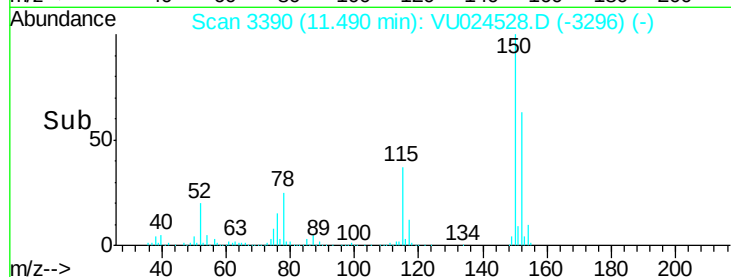
150 157.9 0.0 354.0



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: 23.05 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024528.D

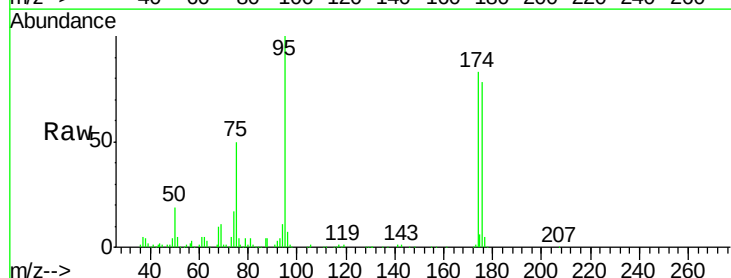
Acq: 14 Jun 2018 00:04

Tgt Ion: 75 Resp: 61742

Ion Ratio Lower Upper

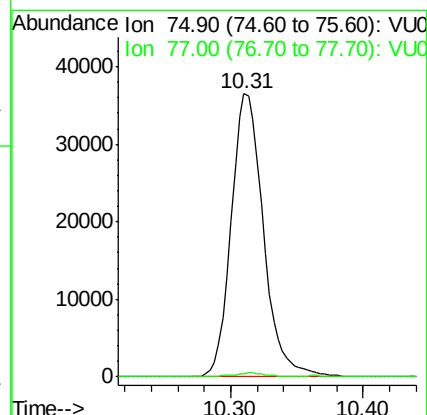
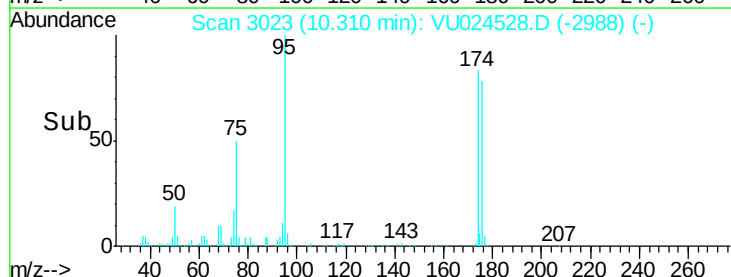
75 100

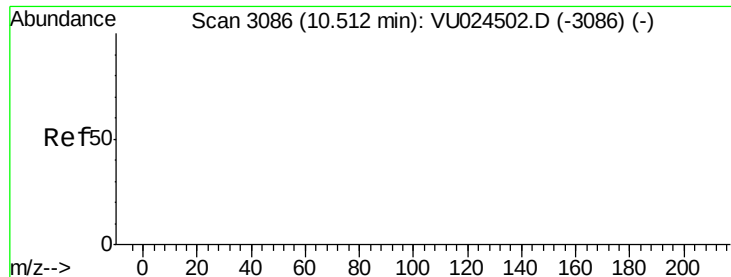
77 1.4 20.9 62.7#



Abundance Ion 74.90 (74.60 to 75.60): VU0

Ion 77.00 (76.70 to 77.70): VU0

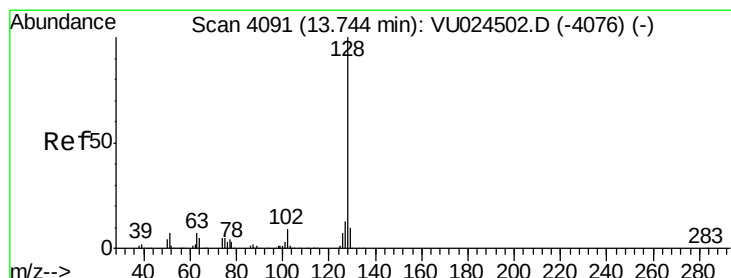
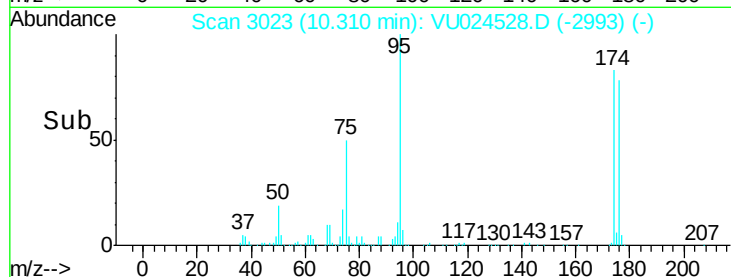
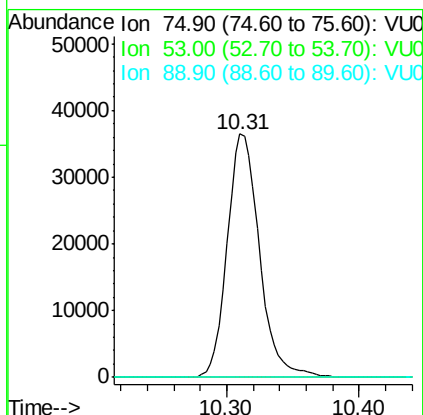
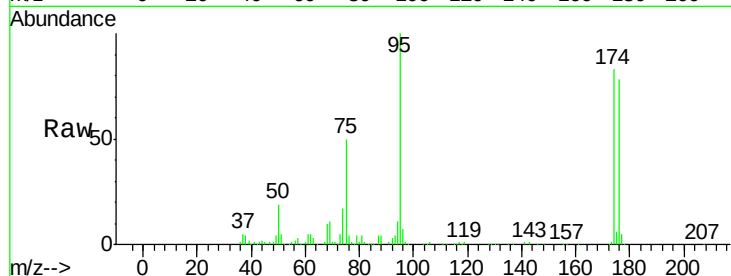




#81
trans-1,4-Dichloro-2-butene
Concen: 53.35 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.20 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

Instrument :
MSVOA_U
ClientSampleId :
VU0614WBS01

Tgt Ion: 75 Resp: 61742
Ion Ratio Lower Upper
75 100
53 0.1 0.0 0.0#
89 0.0 0.0 0.0



#95
Naphthalene
Concen: 0.68 ug/l
RT: 13.76 min Scan# 4097
Delta R.T. 0.02 min
Lab File: VU024528.D
Acq: 14 Jun 2018 00:04

Tgt Ion: 128 Resp: 43
Ion Ratio Lower Upper
128 100
127 0.0 10.6 16.0#
129 0.0 8.6 12.8#

