

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062718\
 Data File : VU024966.D
 Acq On : 27 Jun 2018 15:03
 Operator : MD/SY
 Sample : J3604-02DL 4X
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-10DL

Quant Time: Jun 28 02:26:18 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

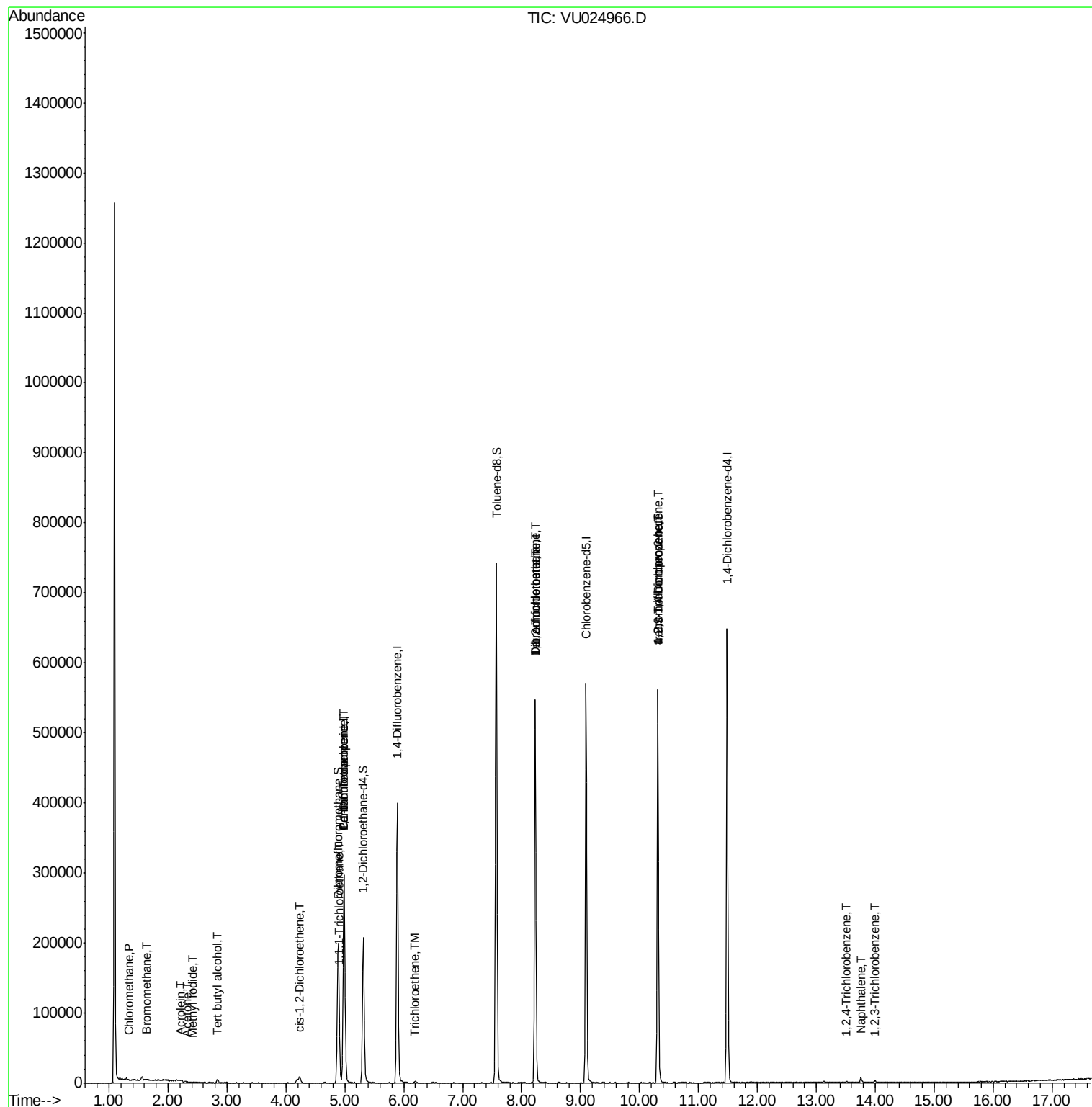
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.99	168	229428	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.89	114	344980	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	315144	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.49	152	170525	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	171341	45.75	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.50%	
35) Dibromofluoromethane	4.89	113	134018	46.81	ug/l	0.00
Spiked Amount 50.000			Recovery	=	93.62%	
50) Toluene-d8	7.57	98	491457	47.06	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.12%	
62) 4-Bromofluorobenzene	10.31	95	184529	44.50	ug/l	0.00
Spiked Amount 50.000			Recovery	=	89.00%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	809	0.276	ug/l #	88
5) Bromomethane	1.63	94	712	0.487	ug/l #	73
6) Chloroethane	1.68	64	43	Below Cal	#	43
10) Methyl Iodide	2.42	142	550	5.491	ug/l #	75
11) Tert butyl alcohol	2.84	59	2812	3.087	ug/l #	72
13) Acrolein	2.21	56	246	0.514	ug/l #	13
16) Acetone	2.33	43	949	0.472	ug/l	95
27) cis-1,2-Dichloroethene	4.23	96	4829	1.460	ug/l	88
31) Cyclohexane	4.99	56	4683	Below Cal	#	1
32) 1,1,1-Trichloroethane	4.91	97	1352	0.261	ug/l #	35
36) 1,1-Dichloropropene	4.99	75	16986	4.190	ug/l #	51
38) Carbon Tetrachloride	4.99	117	22352	5.014	ug/l #	15
44) Trichloroethene	6.20	130	1417	0.431	ug/l	72
55) 1,1,2-Trichloroethane	8.23	97	1020	0.338	ug/l #	14
60) Dibromochloromethane	8.23	129	115892	30.765	ug/l #	11
64) Tetrachloroethene	8.23	164	122825	41.002	ug/l	98
76) 1,2,3-Trichloropropane	10.31	75	96320	25.656	ug/l #	35
81) trans-1,4-Dichloro-2-buten	10.31	75	96320	59.378	ug/l #	100
93) 1,2,4-Trichlorobenzene	13.52	180	1082	0.286	ug/l	89
95) Naphthalene	13.75	128	8414	1.341	ug/l #	94
96) 1,2,3-Trichlorobenzene	14.00	180	1489	0.395	ug/l #	91

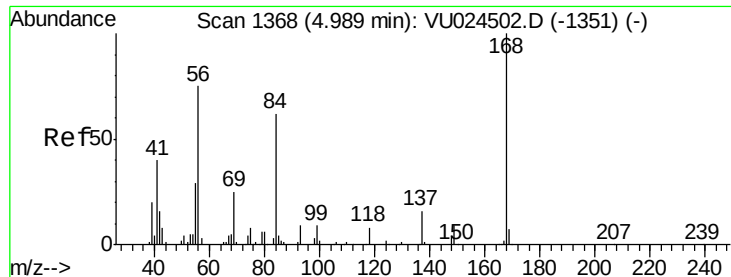
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

MSVOA_U

ClientSampleId :

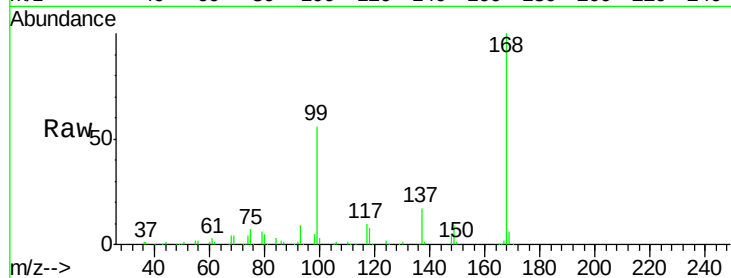
MW-10DL

Tgt Ion:168 Resp: 229428

Ion Ratio Lower Upper

168 100

99 56.1 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

120000

100000

80000

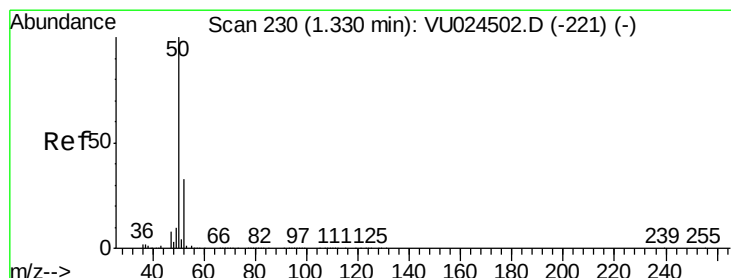
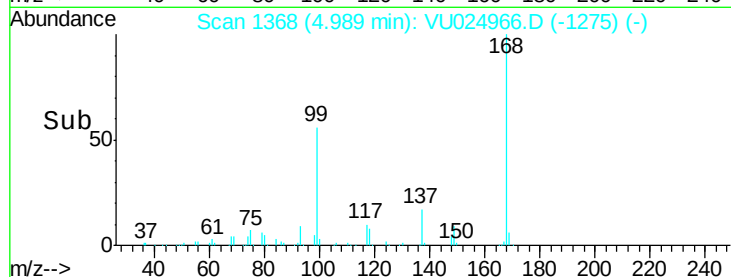
60000

40000

20000

0

Time-->



#3

Chloromethane

Concen: 0.276 ug/l

RT: 1.33 min Scan# 230

Delta R.T. -0.00 min

Lab File: VU024966.D

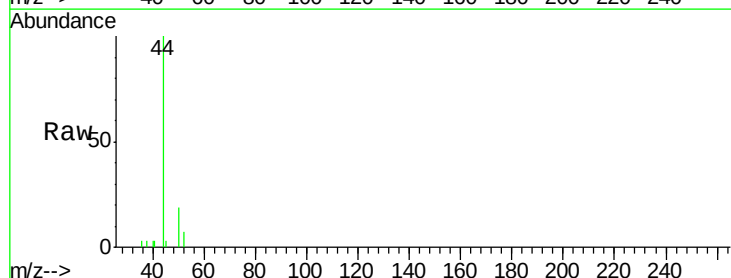
Acq: 27 Jun 2018 15:03

Tgt Ion: 50 Resp: 809

Ion Ratio Lower Upper

50 100

52 39.7 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

800

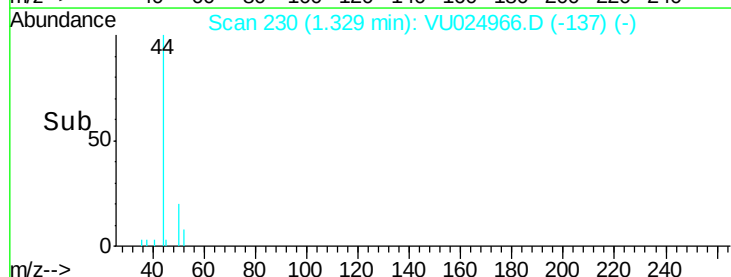
600

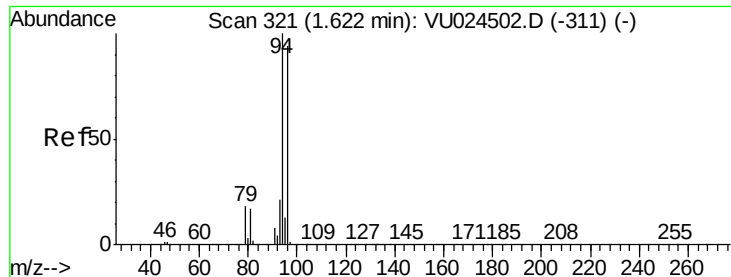
400

200

0

Time-->





#5

Bromomethane

Concen: 0.487 ug/l

RT: 1.63 min Scan# 324

Delta R.T. 0.01 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

MSVOA_U

ClientSampleId :

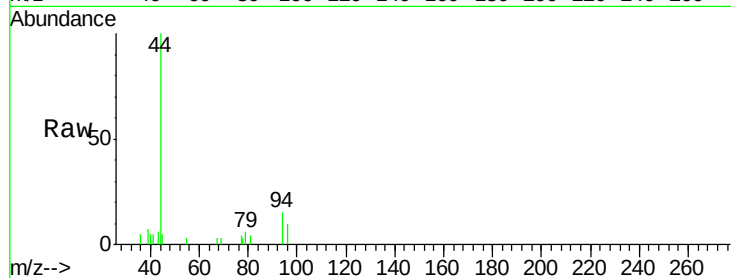
MW-10DL

Tgt Ion: 94 Resp: 712

Ion Ratio Lower Upper

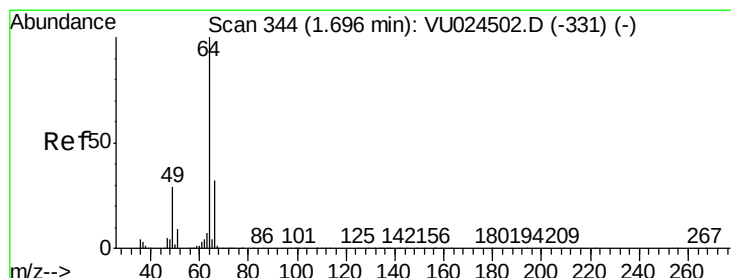
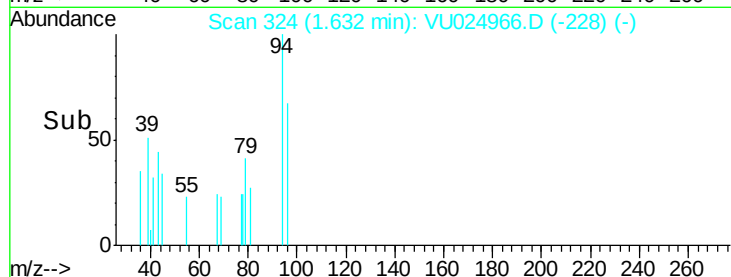
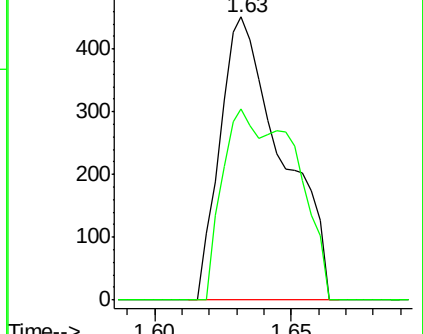
94 100

96 67.4 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: 1.68 min Scan# 339

Delta R.T. -0.02 min

Lab File: VU024966.D

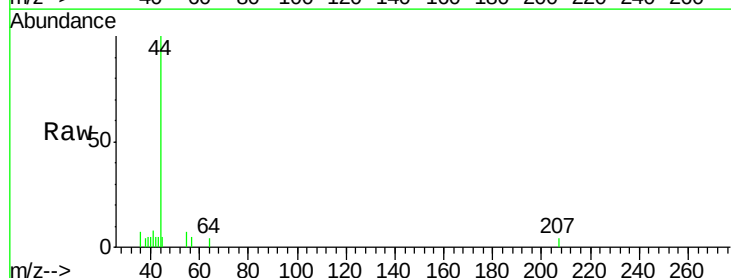
Acq: 27 Jun 2018 15:03

Tgt Ion: 64 Resp: 43

Ion Ratio Lower Upper

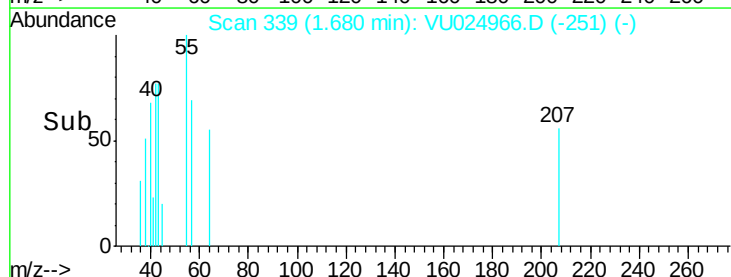
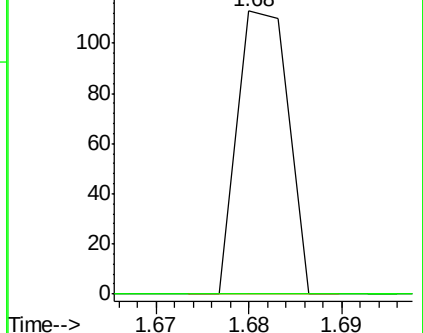
64 100

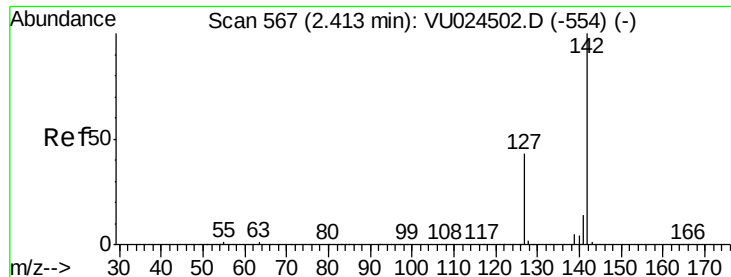
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#10

Methyl Iodide

Concen: 5.491 ug/l

RT: 2.42 min Scan# 569

Delta R.T. 0.01 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

MSVOA_U

ClientSampleId :

MW-10DL

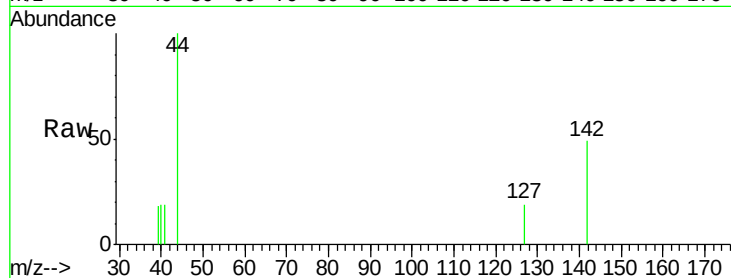
Tgt Ion:142 Resp: 550

Ion Ratio Lower Upper

142 100

127 30.5 35.6 53.4#

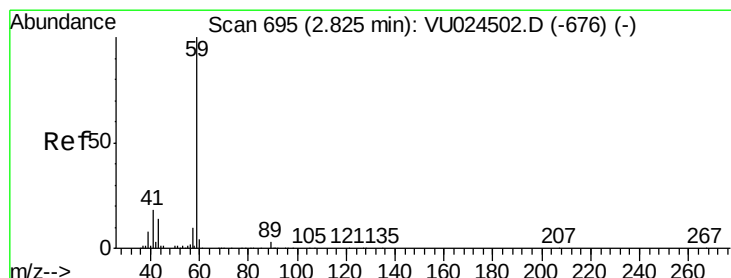
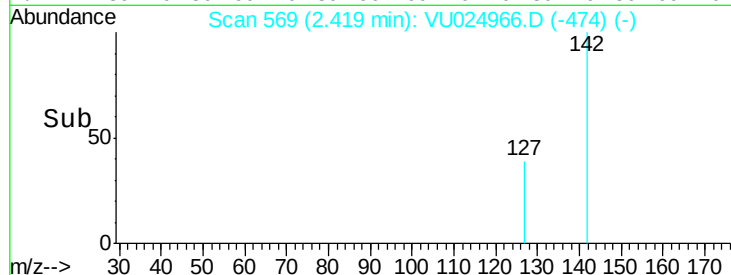
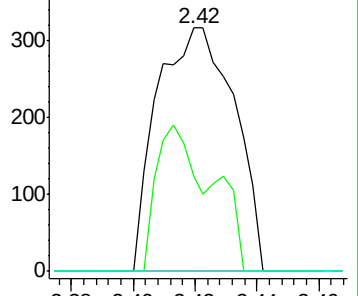
141 0.0 11.7 17.5#



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



#11

Tert butyl alcohol

Concen: 3.087 ug/l

RT: 2.84 min Scan# 700

Delta R.T. 0.02 min

Lab File: VU024966.D

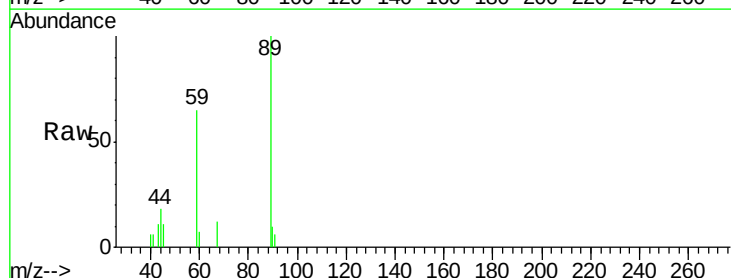
Acq: 27 Jun 2018 15:03

Tgt Ion: 59 Resp: 2812

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VU0

Ion 57.00 (56.70 to 57.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 53.00 (52.70 to 53.70): VU0

Ion 51.00 (50.70 to 51.70): VU0

Ion 49.00 (48.70 to 49.70): VU0

Ion 47.00 (46.70 to 47.70): VU0

Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 37.00 (36.70 to 37.70): VU0

Ion 35.00 (34.70 to 35.70): VU0

Ion 33.00 (32.70 to 33.70): VU0

Ion 31.00 (30.70 to 31.70): VU0

Ion 29.00 (28.70 to 29.70): VU0

Ion 27.00 (26.70 to 27.70): VU0

Ion 25.00 (24.70 to 25.70): VU0

Ion 23.00 (22.70 to 23.70): VU0

Ion 21.00 (20.70 to 21.70): VU0

Ion 19.00 (18.70 to 19.70): VU0

Ion 17.00 (16.70 to 17.70): VU0

Ion 15.00 (14.70 to 15.70): VU0

Ion 13.00 (12.70 to 13.70): VU0

Ion 11.00 (10.70 to 11.70): VU0

Ion 9.00 (8.70 to 9.70): VU0

Ion 7.00 (6.70 to 7.70): VU0

Ion 5.00 (4.70 to 5.70): VU0

Ion 3.00 (2.70 to 3.70): VU0

Ion 1.00 (0.70 to 1.70): VU0

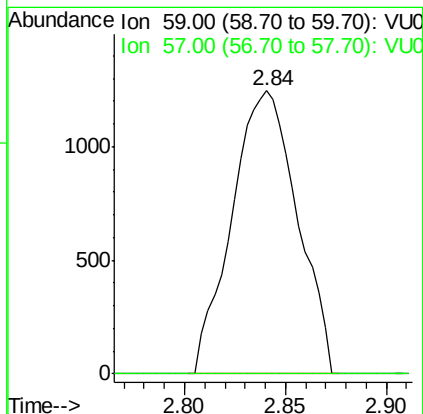
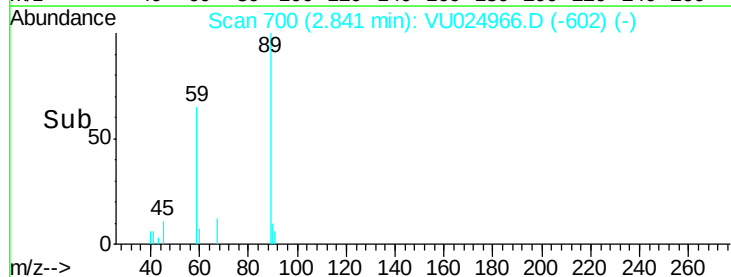
Ion 0.00 (0.00 to 0.00): VU0

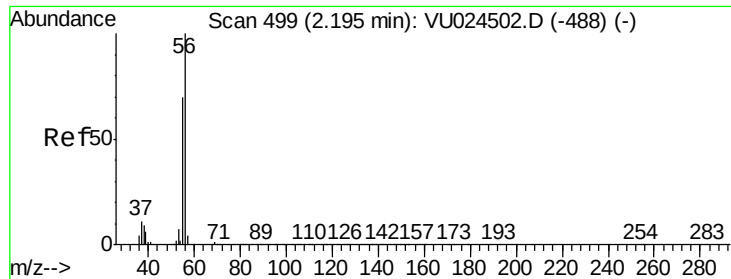
Ion 0.00 (0.00 to 0.00): VU0

Ion 0.00 (0.00 to 0.00): VU0

Ion 0.00 (0.00 to 0.00): VU0

Ion 0.00 (0.00 to 0.00): VU0





#13

Acrolein

Concen: 0.514 ug/l

RT: 2.21 min Scan# 504

Delta R.T. 0.02 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

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ClientSampleId :

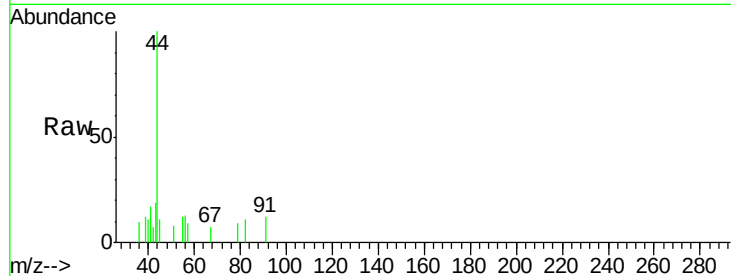
MW-10DL

Tgt Ion: 56 Resp: 246

Ion Ratio Lower Upper

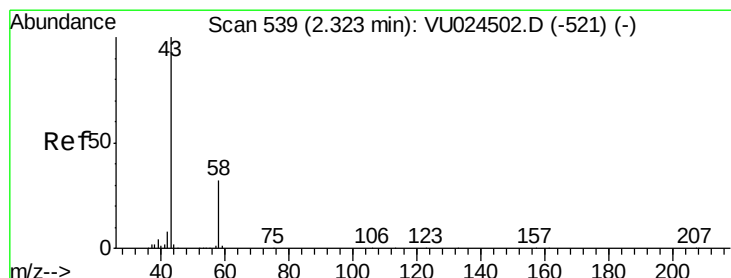
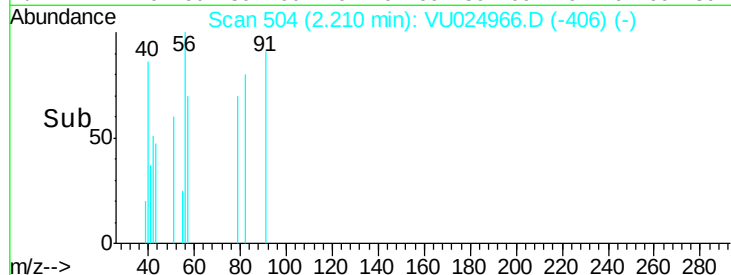
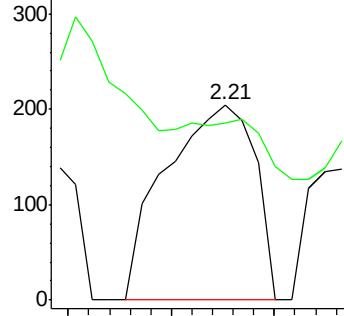
56 100

55 0.0 58.4 87.6#



Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#16

Acetone

Concen: 0.472 ug/l

RT: 2.33 min Scan# 540

Delta R.T. 0.00 min

Lab File: VU024966.D

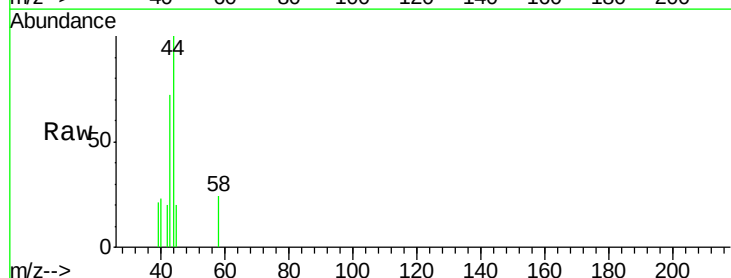
Acq: 27 Jun 2018 15:03

Tgt Ion: 43 Resp: 949

Ion Ratio Lower Upper

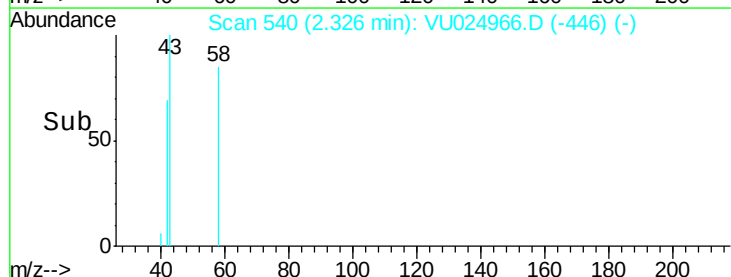
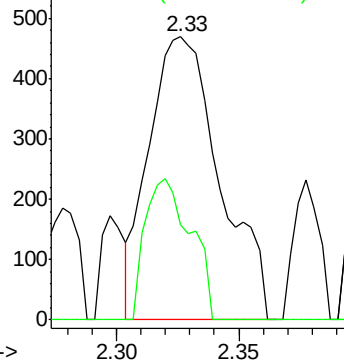
43 100

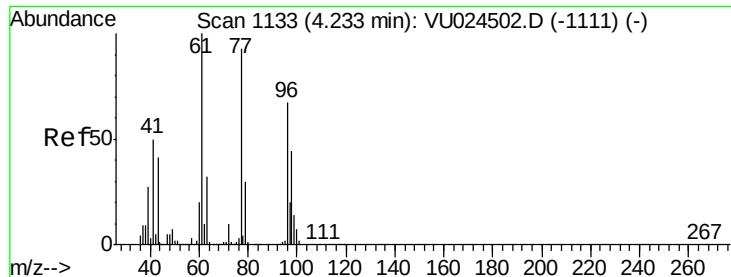
58 33.5 24.4 36.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0





#27

cis-1,2-Dichloroethene

Concen: 1.460 ug/l

RT: 4.23 min Scan# 1132

Delta R.T. -0.00 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

MSVOA_U

ClientSampleId :

MW-10DL

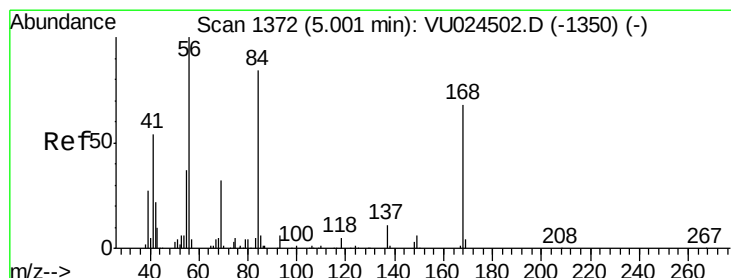
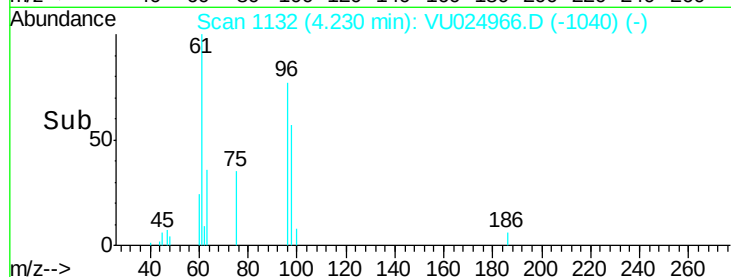
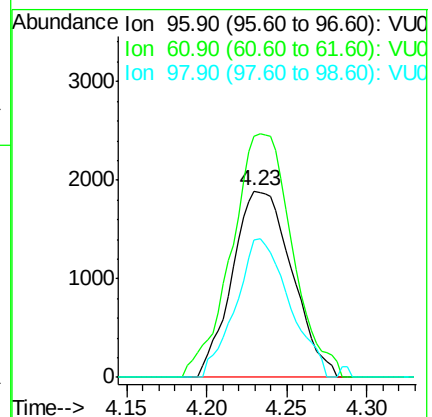
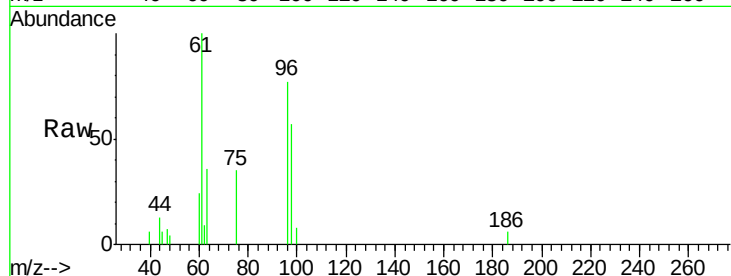
Tgt Ion: 96 Resp: 4829

Ion Ratio Lower Upper

96 100

61 132.9 0.0 306.6

98 66.7 0.0 128.8



#31

Cyclohexane

Concen: Below Cal

RT: 4.99 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

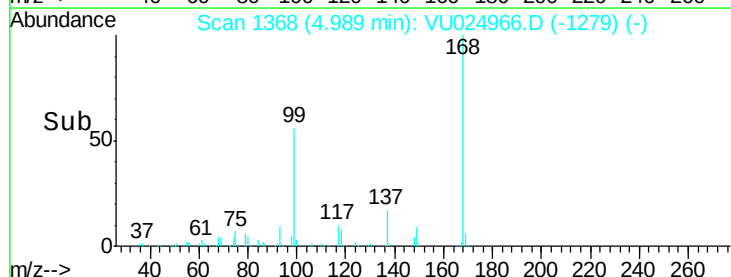
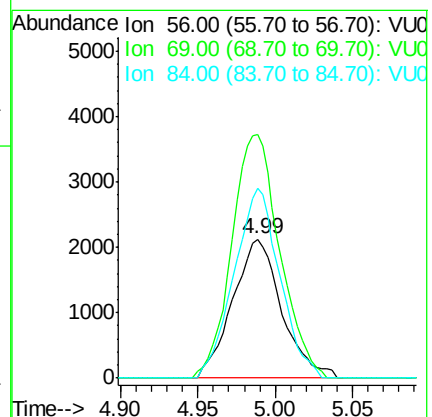
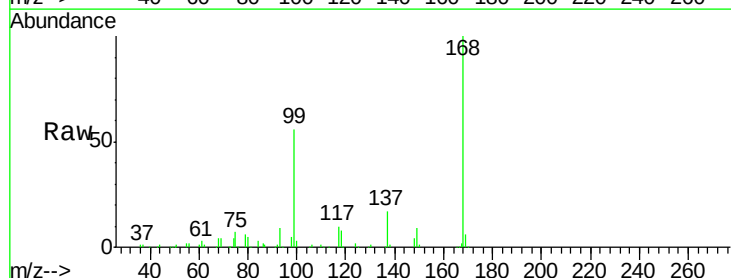
Tgt Ion: 56 Resp: 4683

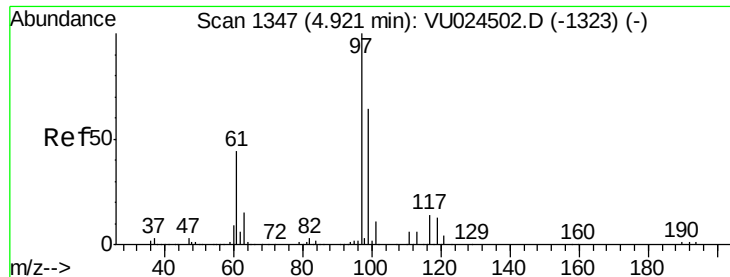
Ion Ratio Lower Upper

56 100

69 174.8 24.8 37.2#

84 136.3 65.2 97.8#





#32

1,1,1-Trichloroethane

Concen: 0.261 ug/l

RT: 4.91 min Scan# 1345

Delta R.T. -0.01 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

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ClientSampleId :

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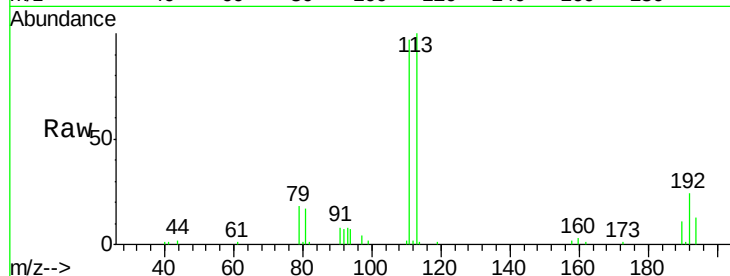
Tgt Ion: 97 Resp: 1352

Ion Ratio Lower Upper

97 100

99 0.0 51.0 76.6#

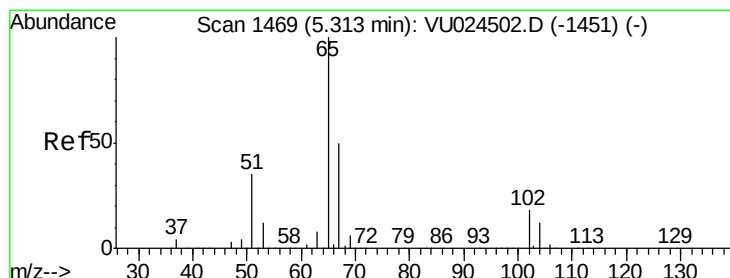
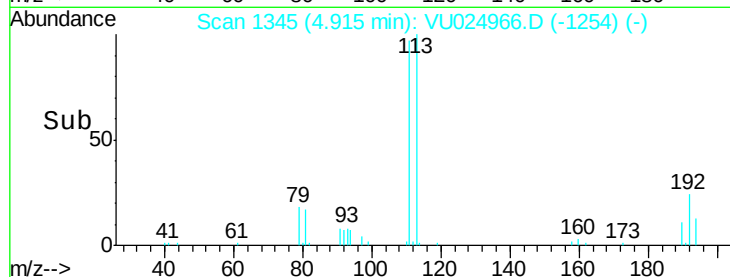
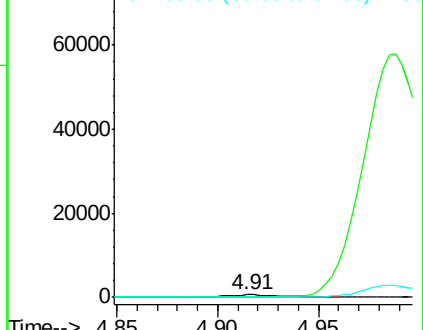
61 19.7 39.4 59.0#



Abundance Ion 96.90 (96.60 to 97.60): VU0

Ion 98.90 (98.60 to 99.60): VU0

Ion 60.90 (60.60 to 61.60): VU0



#33

1,2-Dichloroethane-d4

Concen: 45.746 ug/l

RT: 5.31 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VU024966.D

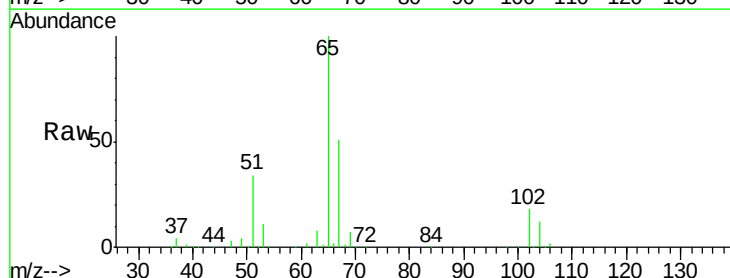
Acq: 27 Jun 2018 15:03

Tgt Ion: 65 Resp: 171341

Ion Ratio Lower Upper

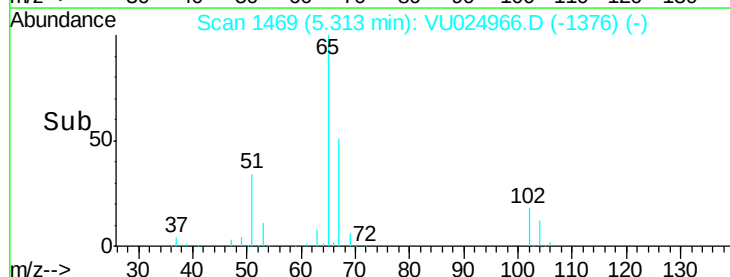
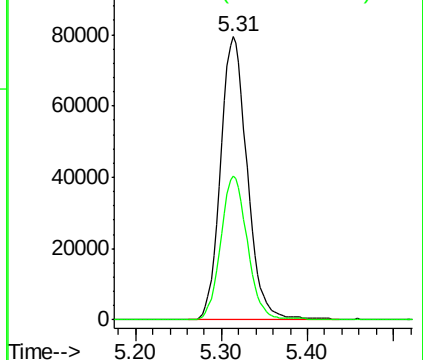
65 100

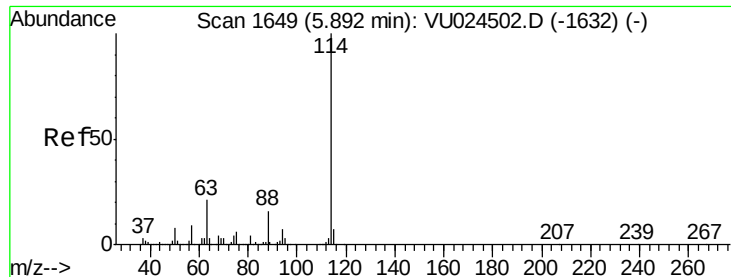
67 51.0 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VU0

Ion 66.90 (66.60 to 67.60): VU0

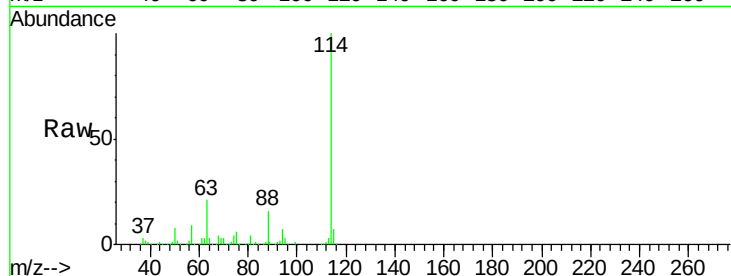




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 5.89 min Scan# 1648
Delta R.T. -0.00 min
Lab File: VU024966.D
Acq: 27 Jun 2018 15:03

Instrument :
MSVOA_U
ClientSampleId :
MW-10DL

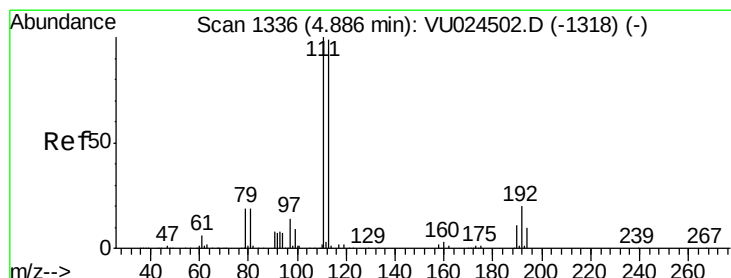
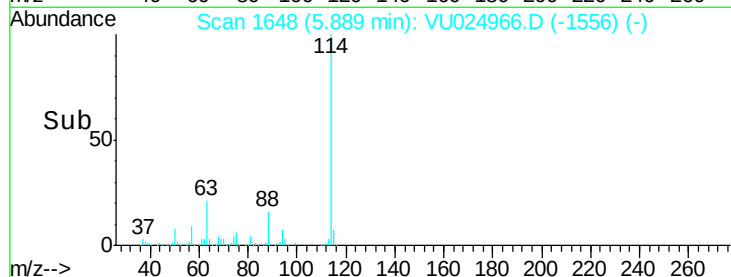
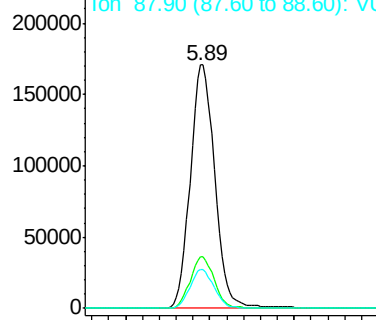
Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.2	0.0	45.4
88	16.1	0.0	31.0



Abundance Ion 113.90 (113.60 to 114.60): V

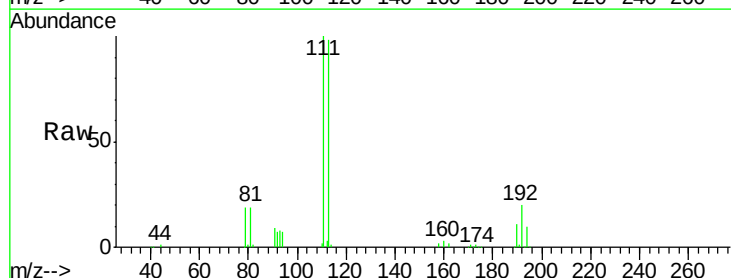
Ion 63.00 (62.70 to 63.70): VU0

Ion 87.90 (87.60 to 88.60): VU0



#35
Dibromofluoromethane
Concen: 46.809 ug/l
RT: 4.89 min Scan# 1337
Delta R.T. 0.00 min
Lab File: VU024966.D
Acq: 27 Jun 2018 15:03

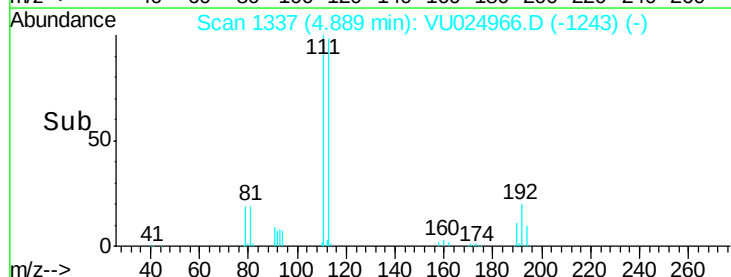
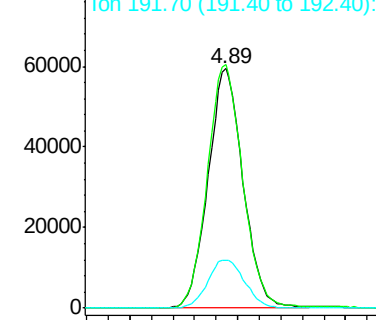
Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.9	82.2	123.4
192	21.3	16.2	24.4

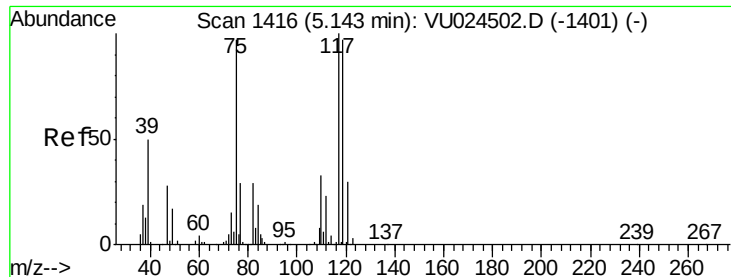


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

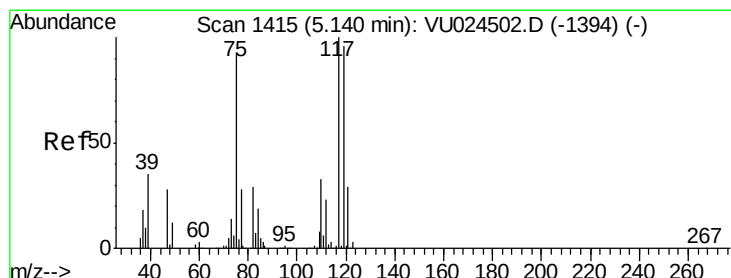
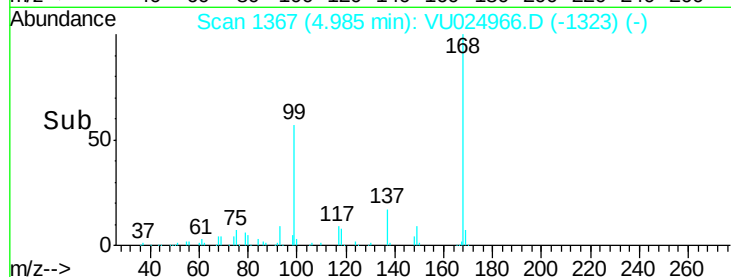
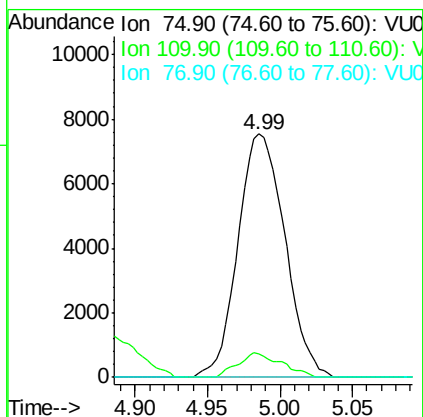
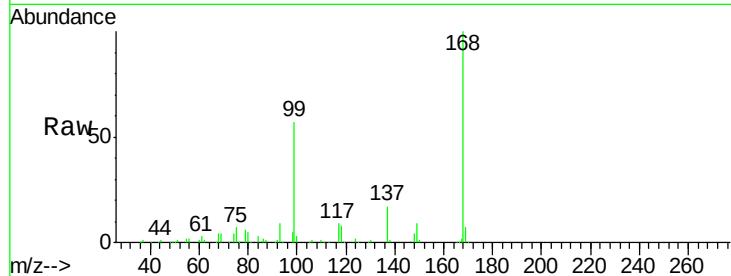




#36
 1,1-Dichloropropene
 Concen: 4.190 ug/l
 RT: 4.99 min Scan# 1367
 Delta R.T. -0.16 min
 Lab File: VU024966.D
 Acq: 27 Jun 2018 15:03

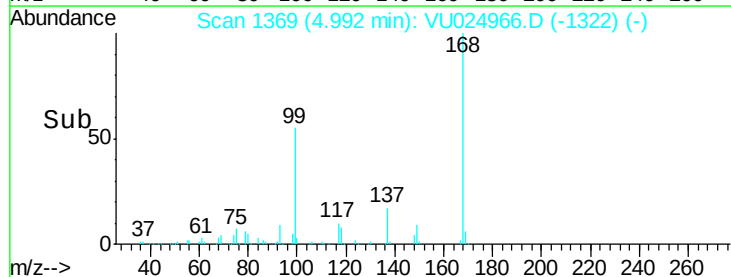
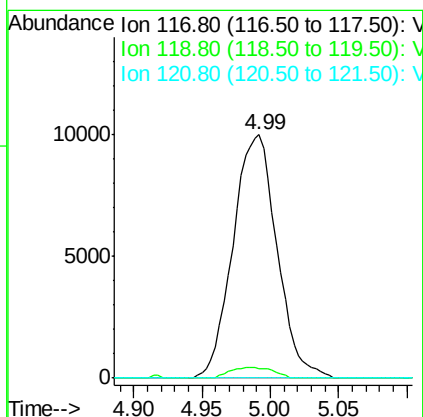
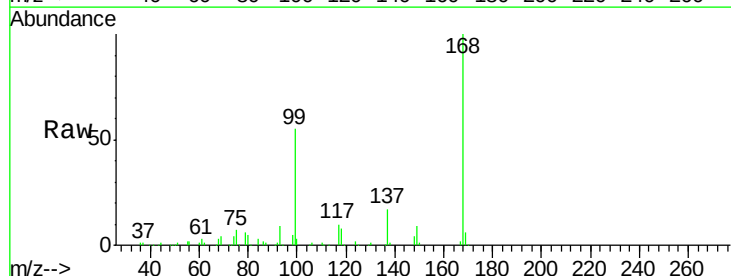
Instrument :
 MSVOA_U
 ClientSampleId :
 MW-10DL

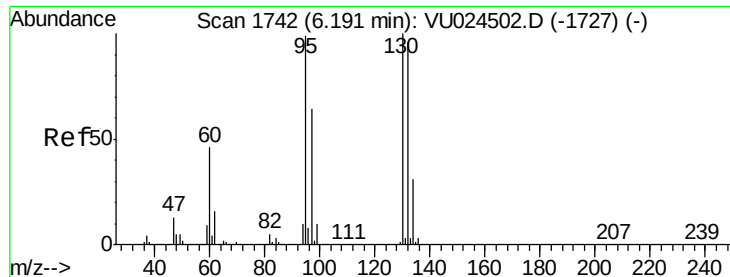
Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.0	50.9#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.014 ug/l
 RT: 4.99 min Scan# 1369
 Delta R.T. -0.15 min
 Lab File: VU024966.D
 Acq: 27 Jun 2018 15:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.0	76.1	114.1#
121	0.0	23.7	35.5#





#44

Trichloroethene

Concen: 0.431 ug/l

RT: 6.20 min Scan# 1744

Delta R.T. 0.01 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

MSVOA_U

ClientSampleId :

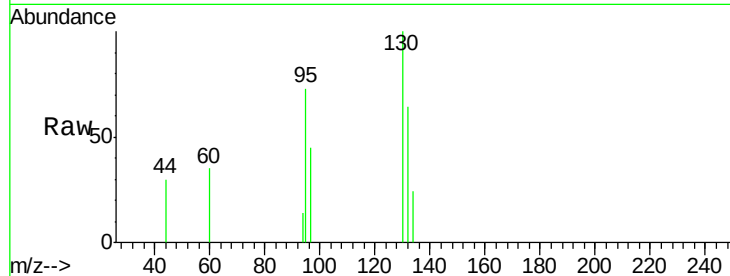
MW-10DL

Tgt Ion:130 Resp: 1417

Ion Ratio Lower Upper

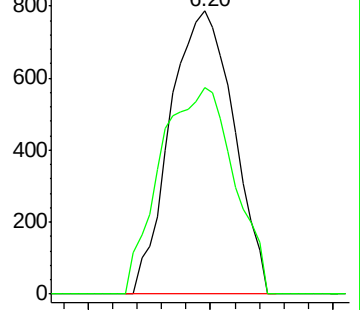
130 100

95 73.0 0.0 202.4

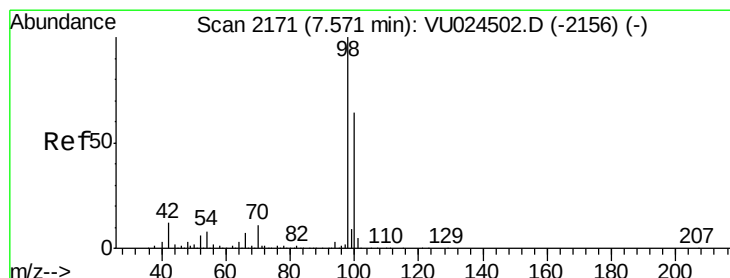
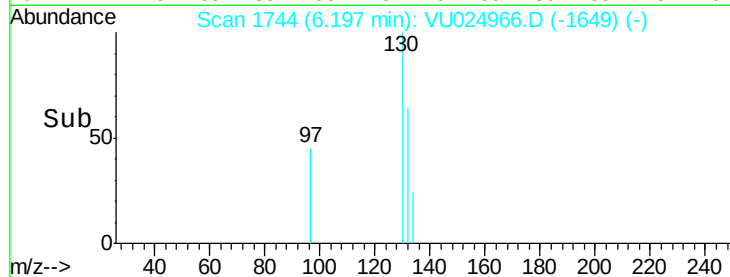


Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VU0



Time-->



#50

Toluene-d8

Concen: 47.059 ug/l

RT: 7.57 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VU024966.D

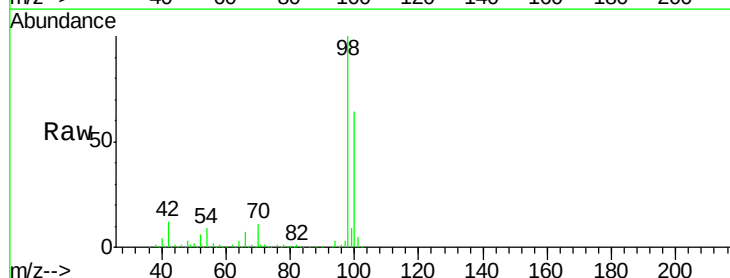
Acq: 27 Jun 2018 15:03

Tgt Ion: 98 Resp: 491457

Ion Ratio Lower Upper

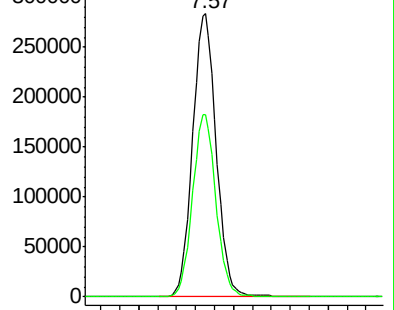
98 100

100 63.7 51.1 76.7

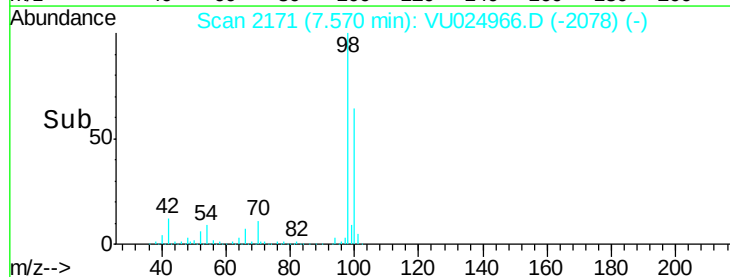


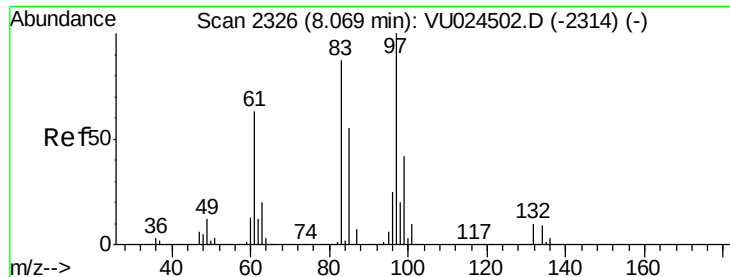
Abundance Ion 98.00 (97.70 to 98.70): VU0

Ion 100.00 (99.70 to 100.70): VU0



Time-->





#55

1,1,2-Trichloroethane

Concen: 0.338 ug/l

RT: 8.23 min Scan# 2377

Delta R.T. 0.16 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

MSVOA_U

ClientSampleId :

MW-10DL

Tgt Ion: 97 Resp: 1020

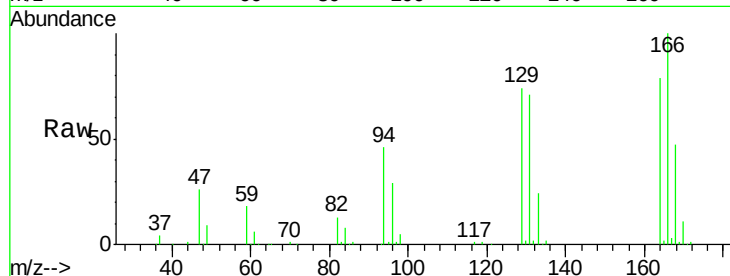
Ion Ratio Lower Upper

97 100

83 202.3 70.5 105.7#

85 31.2 46.4 69.6#

99 0.0 50.2 75.2#

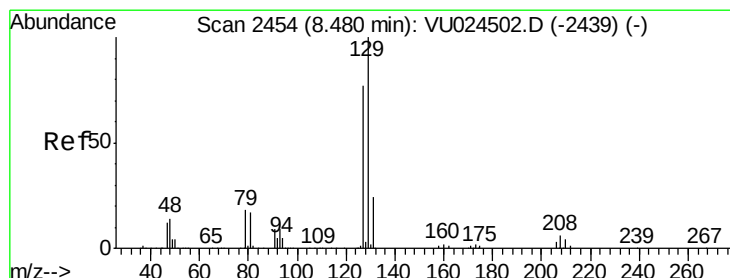
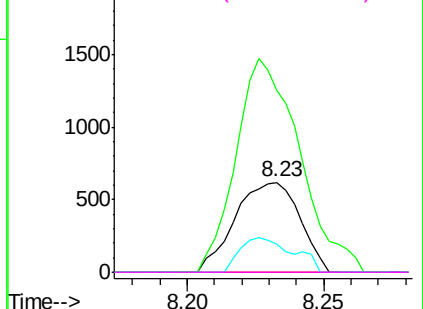
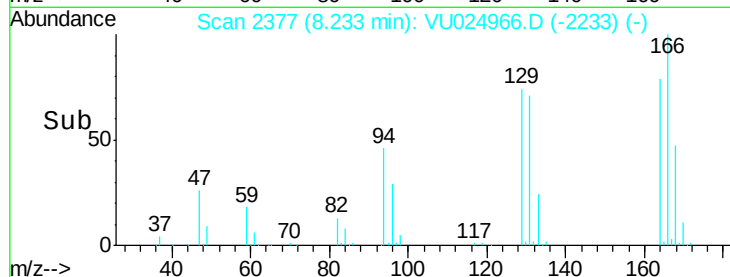


Abundance Ion 96.90 (96.60 to 97.60): VU0

Ion 82.90 (82.60 to 83.60): VU0

Ion 84.90 (84.60 to 85.60): VU0

Ion 98.90 (98.60 to 99.60): VU0



#60

Dibromochloromethane

Concen: 30.765 ug/l

RT: 8.23 min Scan# 2376

Delta R.T. -0.25 min

Lab File: VU024966.D

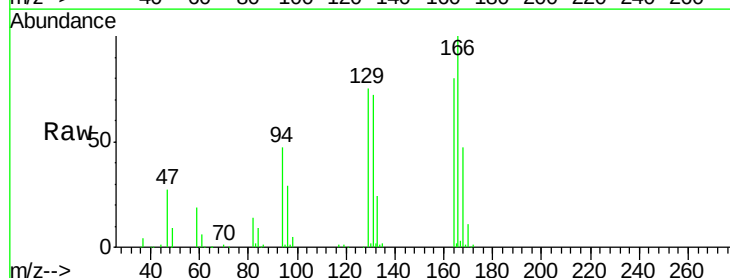
Acq: 27 Jun 2018 15:03

Tgt Ion: 129 Resp: 115892

Ion Ratio Lower Upper

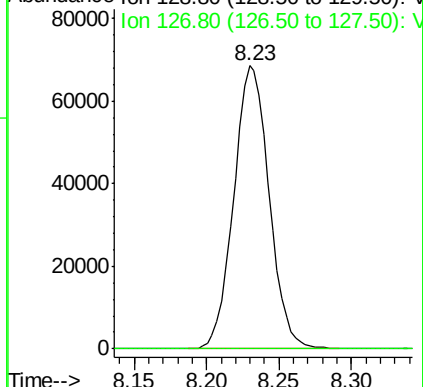
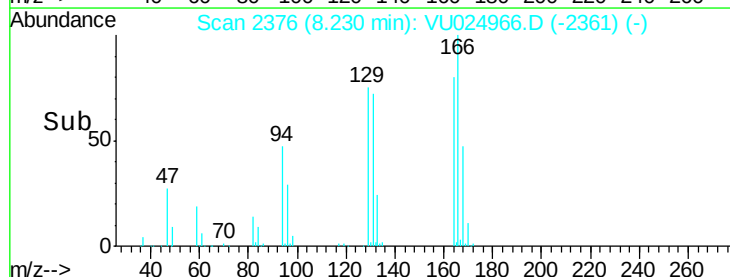
129 100

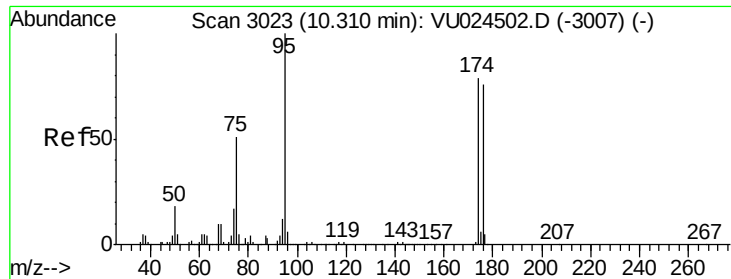
127 0.0 38.6 116.0#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

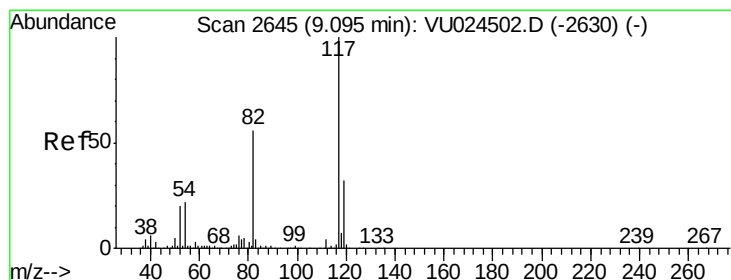
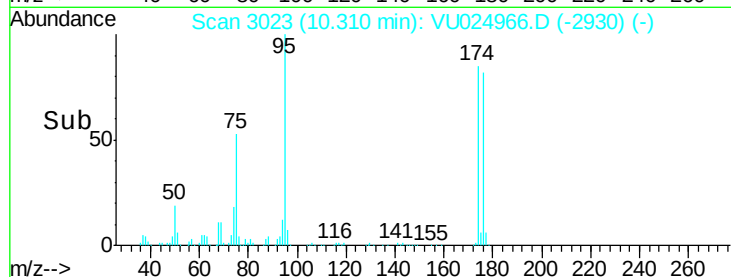
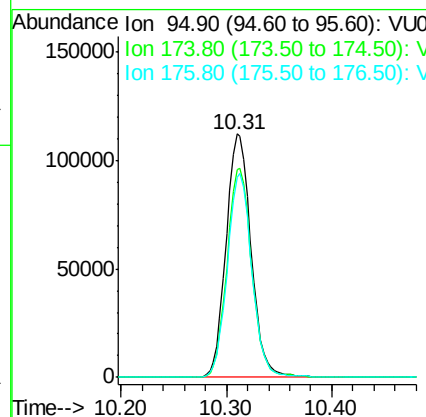
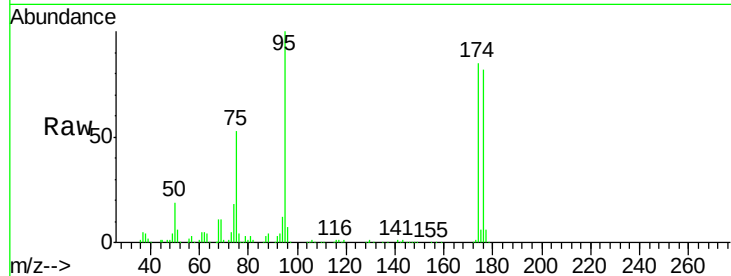




#62
4-Bromofluorobenzene
Concen: 44.503 ug/l
RT: 10.31 min Scan# 3023
Delta R.T. -0.00 min
Lab File: VU024966.D
Acq: 27 Jun 2018 15:03

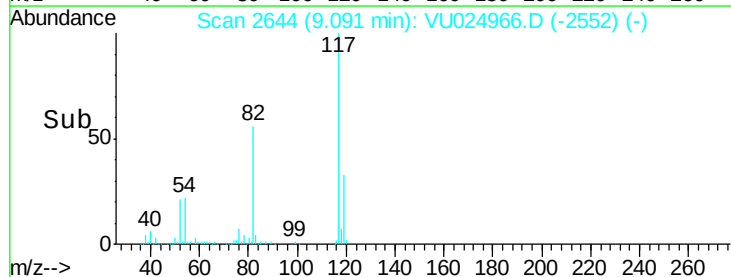
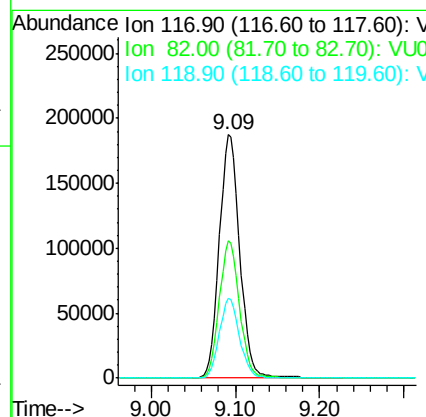
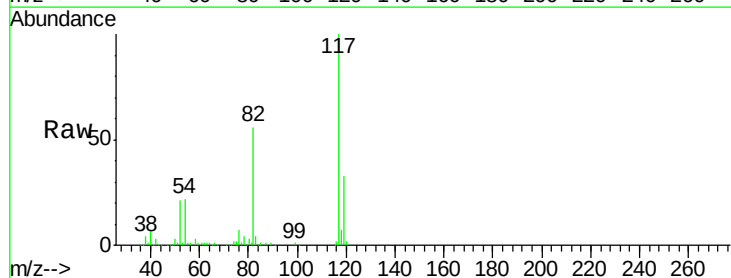
Instrument :
MSVOA_U
ClientSampled :
MW-10DL

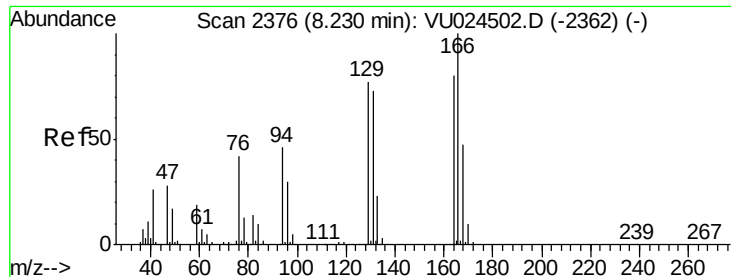
Tgt Ion: 95 Resp: 184529
Ion Ratio Lower Upper
95 100
174 85.0 0.0 165.8
176 82.2 0.0 159.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VU024966.D
Acq: 27 Jun 2018 15:03

Tgt Ion: 117 Resp: 315144
Ion Ratio Lower Upper
117 100
82 56.2 44.3 66.5
119 32.9 25.4 38.2





#64

Tetrachloroethene

Concen: 41.002 ug/l

RT: 8.23 min Scan# 2376

Delta R.T. -0.00 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

MSVOA_U

ClientSampleId :

MW-10DL

Tgt Ion:164 Resp: 122825

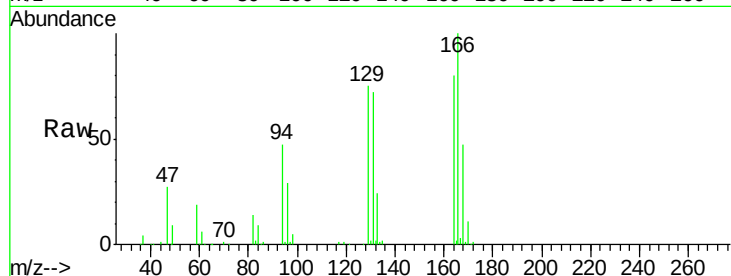
Ion Ratio Lower Upper

164 100

166 125.7 101.7 152.5

129 94.4 76.9 115.3

131 89.9 74.9 112.3

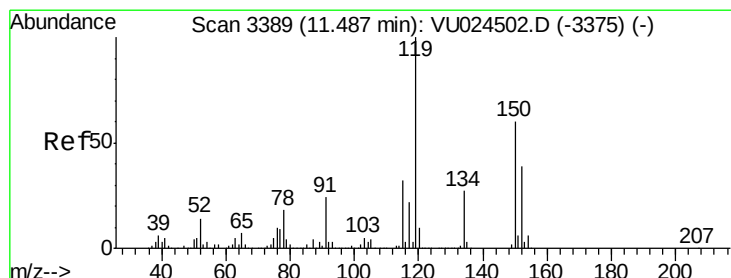
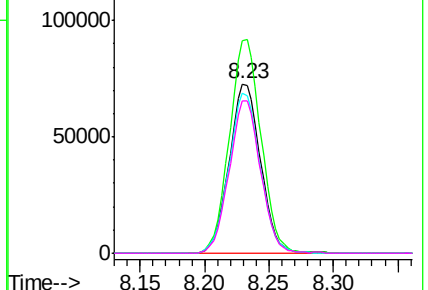
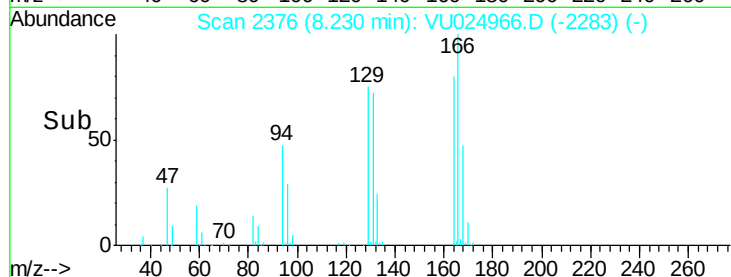


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.49 min Scan# 3389

Delta R.T. -0.00 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

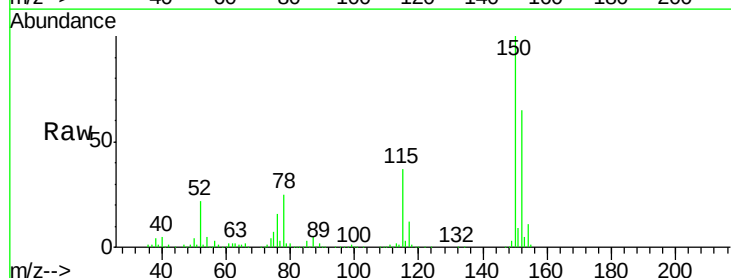
Tgt Ion:152 Resp: 170525

Ion Ratio Lower Upper

152 100

115 56.8 43.0 129.0

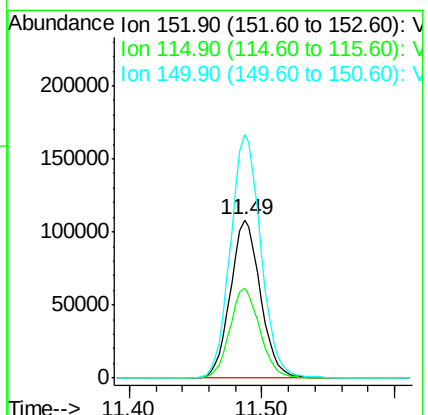
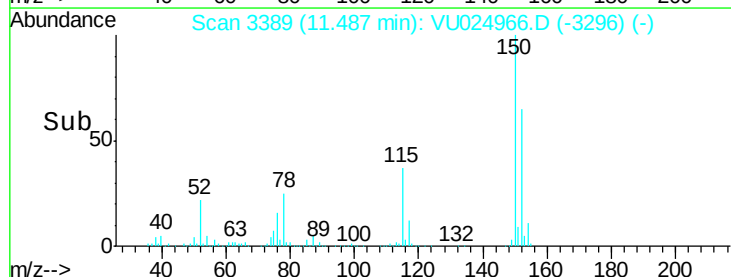
150 155.7 0.0 354.0

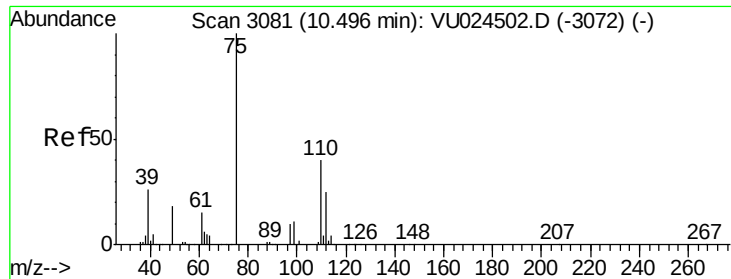


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 25.656 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.19 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

Instrument :

MSVOA_U

ClientSampleId :

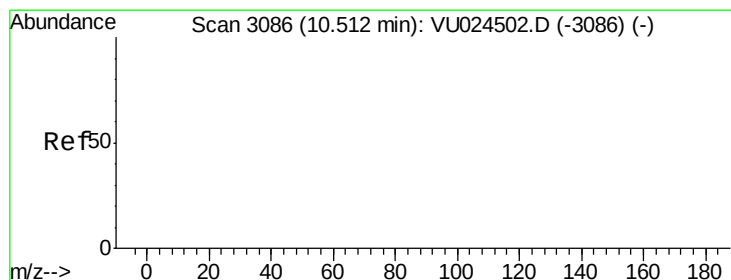
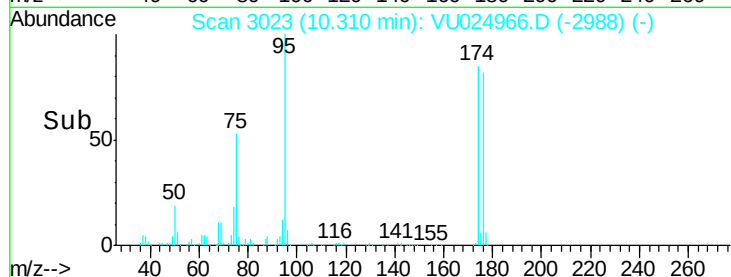
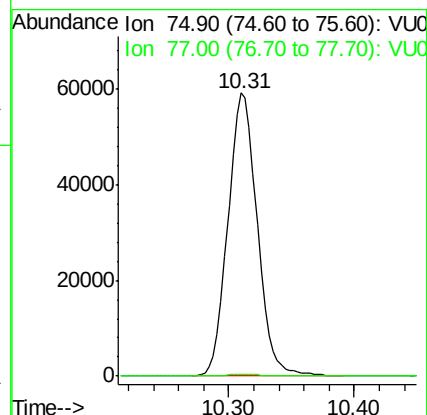
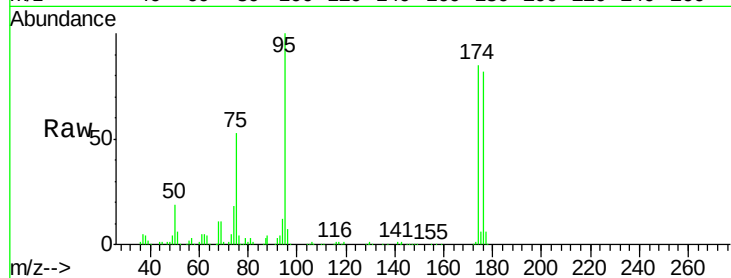
MW-10DL

Tgt Ion: 75 Resp: 96320

Ion Ratio Lower Upper

75 100

77 0.8 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.378 ug/l

RT: 10.31 min Scan# 3023

Delta R.T. -0.20 min

Lab File: VU024966.D

Acq: 27 Jun 2018 15:03

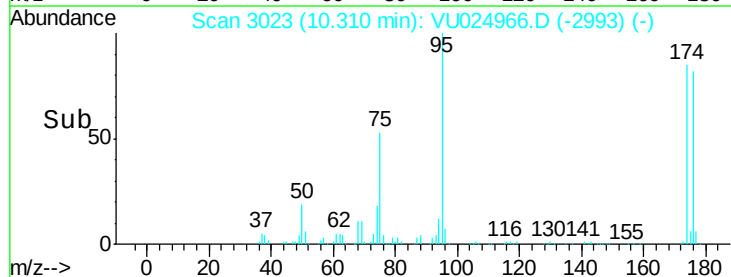
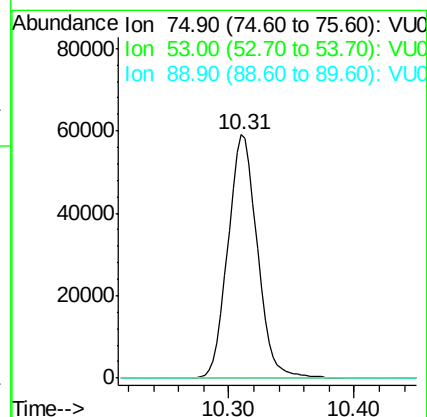
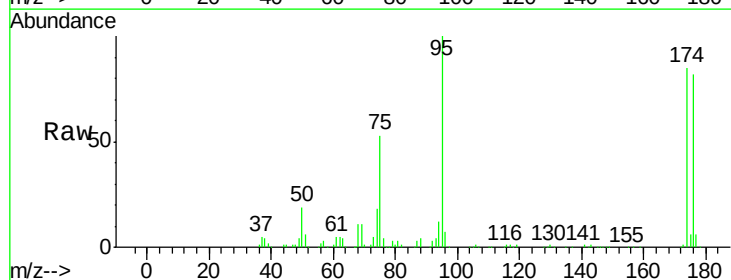
Tgt Ion: 75 Resp: 96320

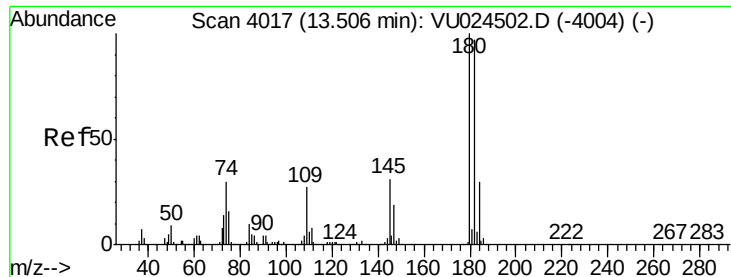
Ion Ratio Lower Upper

75 100

53 0.0 0.0 0.0

89 0.0 0.0 0.0

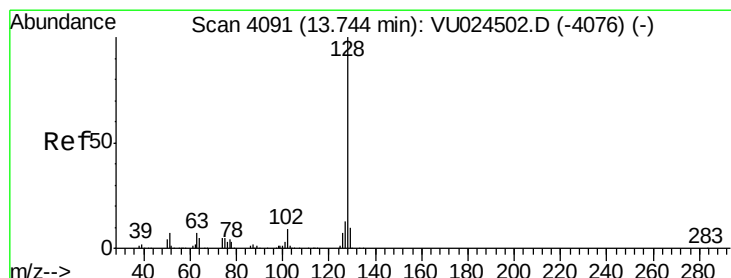
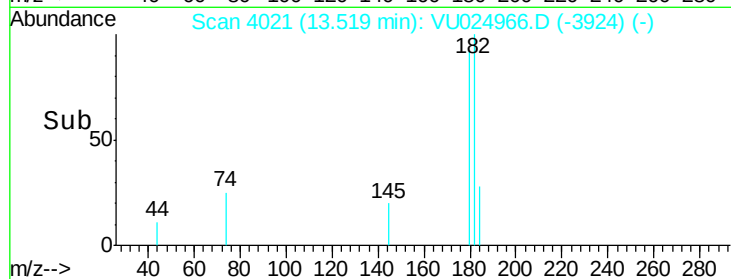
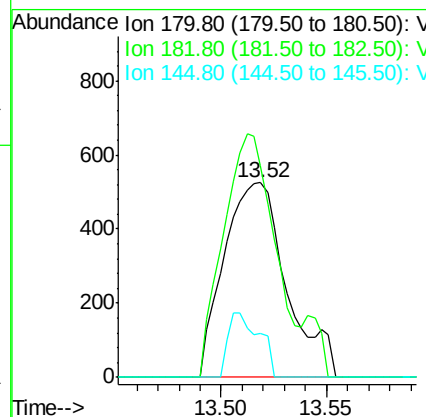
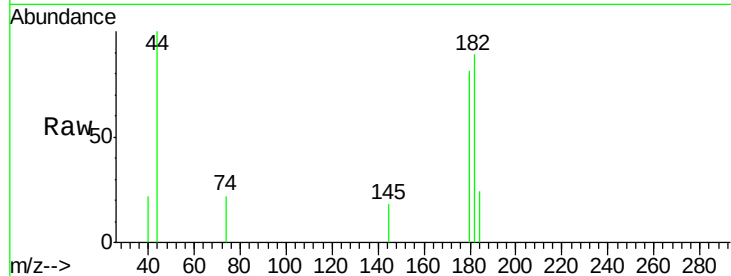




#93
 1,2,4-Trichlorobenzene
 Concen: 0.286 ug/l
 RT: 13.52 min Scan# 4021
 Delta R.T. 0.01 min
 Lab File: VU024966.D
 Acq: 27 Jun 2018 15:03

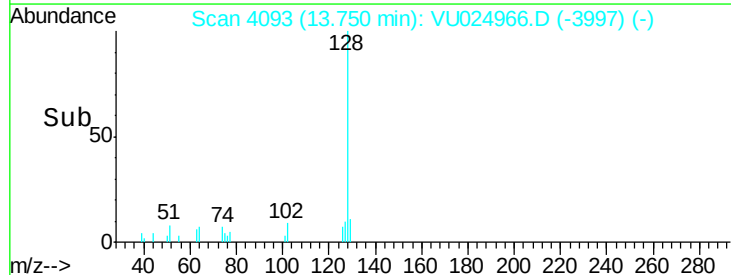
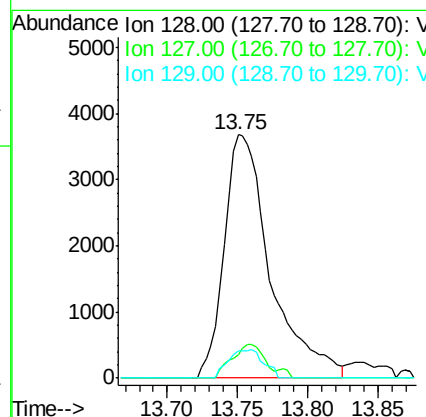
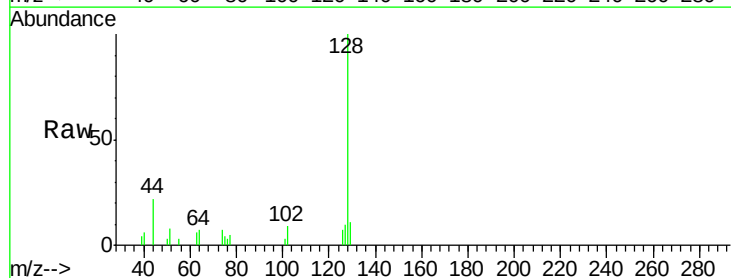
Instrument :
 MSVOA_U
 ClientSampled :
 MW-10DL

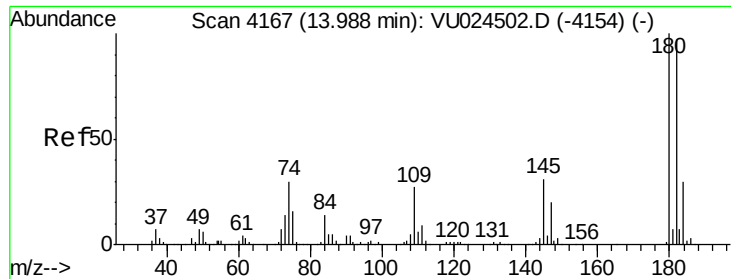
Tgt Ion:180 Resp: 1082
 Ion Ratio Lower Upper
 180 100
 182 103.4 48.0 144.2
 145 16.5 14.7 44.1



#95
 Naphthalene
 Concen: 1.341 ug/l
 RT: 13.75 min Scan# 4093
 Delta R.T. 0.01 min
 Lab File: VU024966.D
 Acq: 27 Jun 2018 15:03

Tgt Ion:128 Resp: 8414
 Ion Ratio Lower Upper
 128 100
 127 10.5 10.6 16.0#
 129 8.8 8.6 12.8

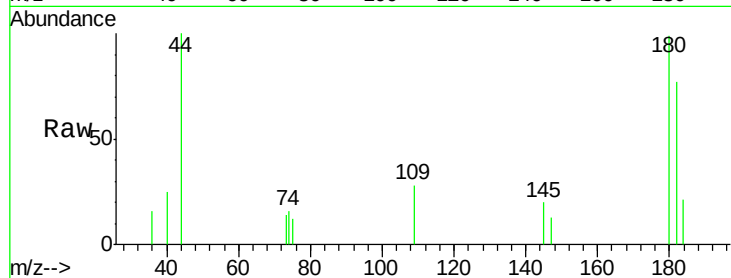




#96
 1,2,3-Trichlorobenzene
 Concen: 0.395 ug/l
 RT: 14.00 min Scan# 4170
 Delta R.T. 0.01 min
 Lab File: VU024966.D
 Acq: 27 Jun 2018 15:03

Instrument :
 MSVOA_U
 ClientSampleId :
 MW-10DL

Tgt Ion:180 Resp: 1489
 Ion Ratio Lower Upper
 180 100
 182 96.2 47.9 143.7
 145 11.1 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

