

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062818\
 Data File : VX003011.D
 Acq On : 29 Jun 2018 04:03
 Operator : JC/MD
 Sample : J3694-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LIC-PV-TRIPBLANK-1-6-19-18

Quant Time: Jun 29 07:59:05 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jun 25 14:38:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	292339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	413990	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	377565	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	215627	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	194042	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
35) Dibromofluoromethane	5.51	113	156768	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
50) Toluene-d8	8.72	98	576470	48.15	ug/l	0.00
Spiked Amount			Recovery	=	96.30%	
62) 4-Bromofluorobenzene	11.14	95	202405	43.84	ug/l	0.00
Spiked Amount			Recovery	=	87.68%	

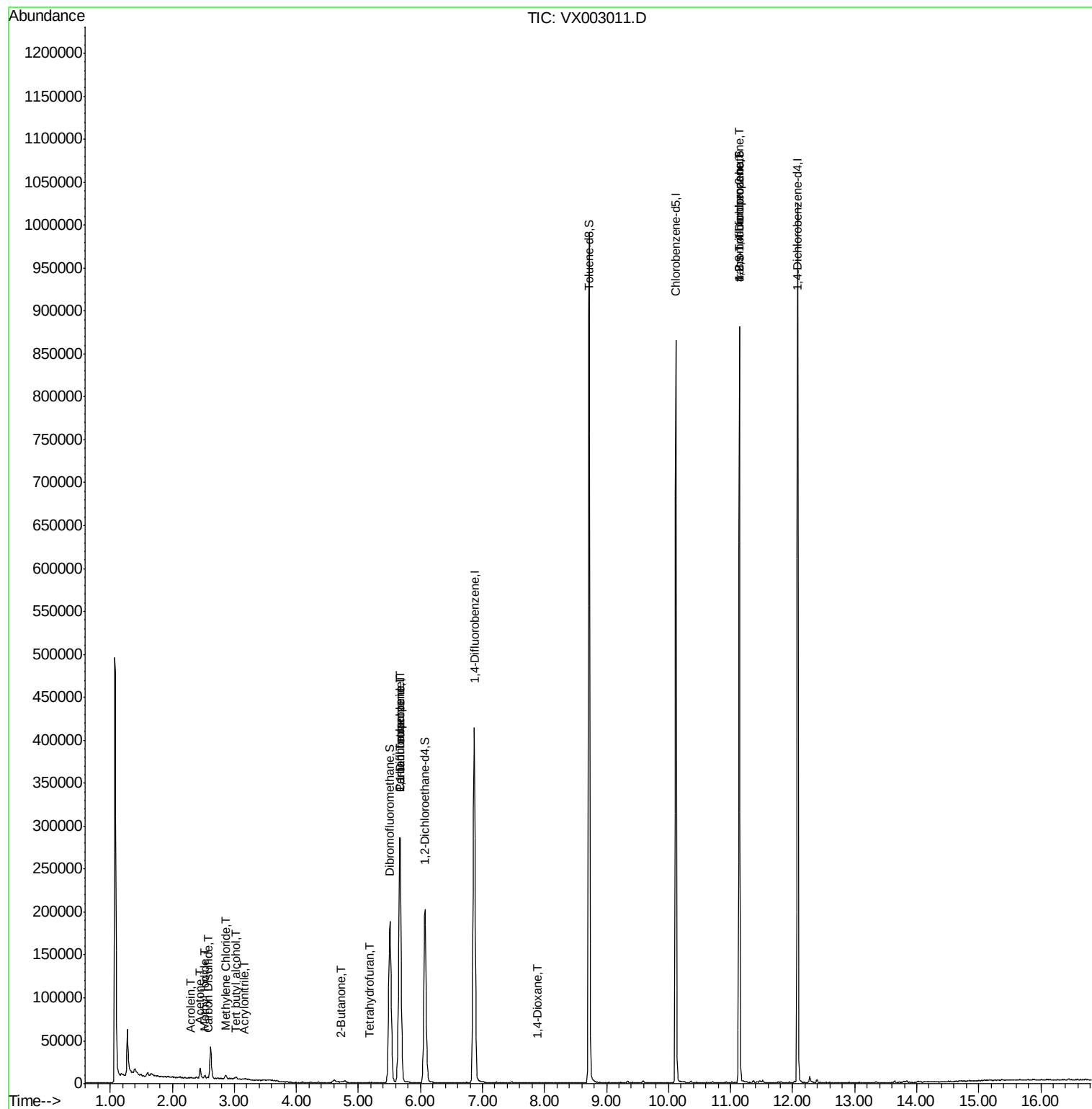
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	263	Below Cal	#	66
3) Chloromethane	1.33	50	1097	Below Cal	#	67
5) Bromomethane	1.65	94	2301	Below Cal	#	79
6) Chloroethane	1.72	64	624	Below Cal	#	43
10) Methyl Iodide	2.52	142	3179	7.08	ug/l	96
11) Tert butyl alcohol	3.02	59	1373	1.71	ug/l	# 92
13) Acrolein	2.30	56	299	4.89	ug/l	# 75
15) Acrylonitrile	3.15	53	359	0.21	ug/l	# 70
16) Acetone	2.45	43	12860	7.69	ug/l	95
17) Carbon Disulfide	2.57	76	1733	0.23	ug/l	97
20) Methylene Chloride	2.86	84	2036	0.63	ug/l	90
25) 2-Butanone	4.71	43	616	0.25	ug/l	# 87
29) Tetrahydrofuran	5.17	42	482	0.30	ug/l	# 80
36) 1,1-Dichloropropene	5.67	75	19882	4.38	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	26911	5.40	ug/l	# 16
49) 1,4-Dioxane	7.88	88	20	0.24	ug/l	# 1
76) 1,2,3-Trichloropropane	11.14	75	105074	26.90	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	105074	76.17	ug/l	# 7

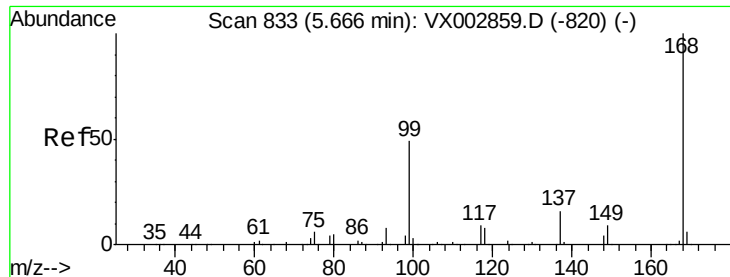
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

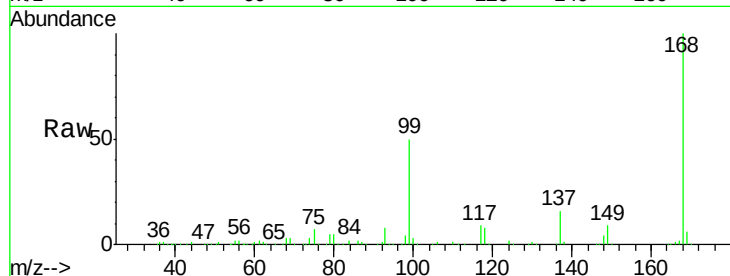
LIC-PV-TRIPBLANK-1-6-19-18

Tot Ion:168 Resp: 292339

Ion Ratio Lower Upper

168 100

99 49.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

120000

100000

80000

60000

40000

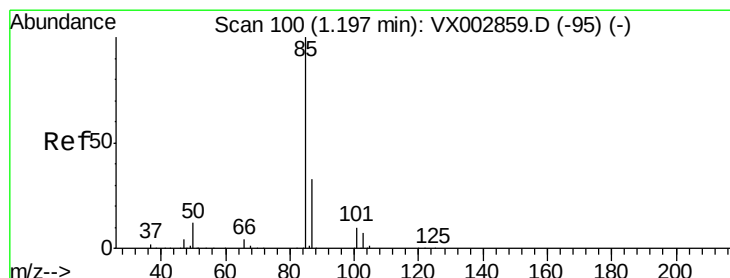
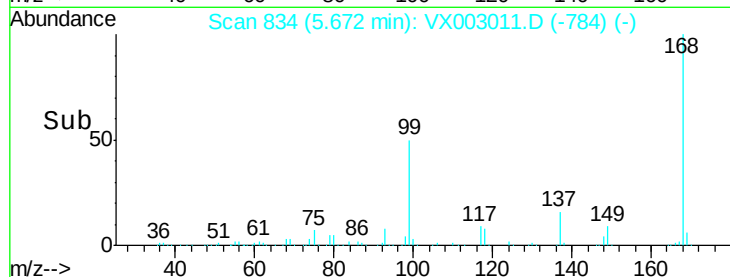
20000

0

5.67

5.50 5.60 5.70 5.80

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003011.D

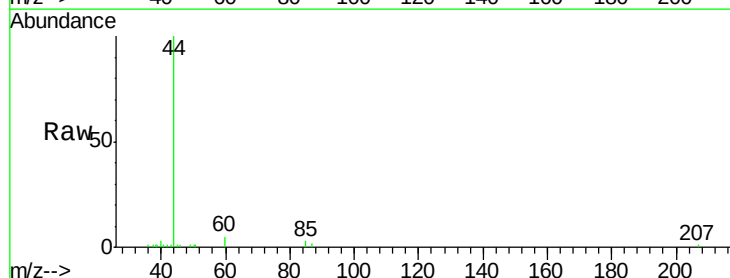
Acq: 29 Jun 2018 04:03

Tgt Ion: 85 Resp: 263

Ion Ratio Lower Upper

85 100

87 51.1 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

300

200

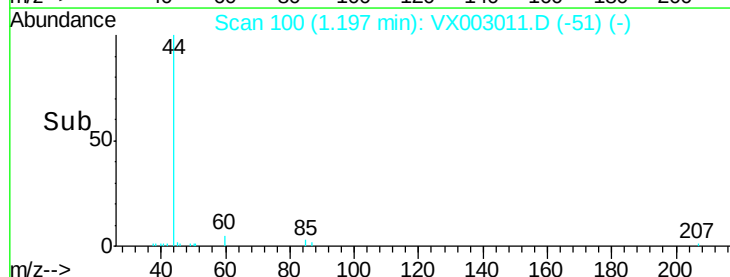
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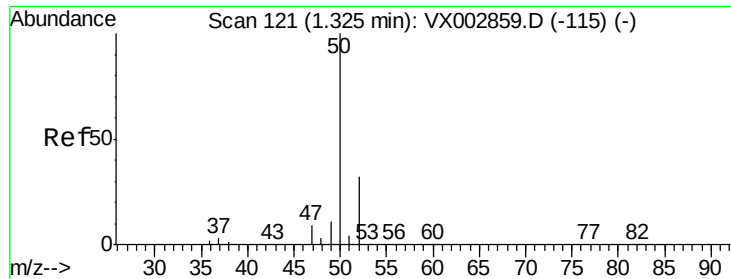
0

1.20

1.16 1.18 1.20 1.22

Time-->





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

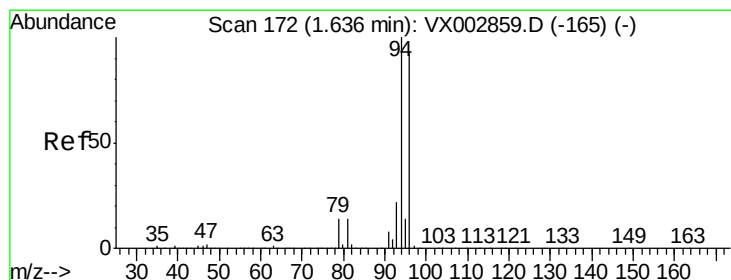
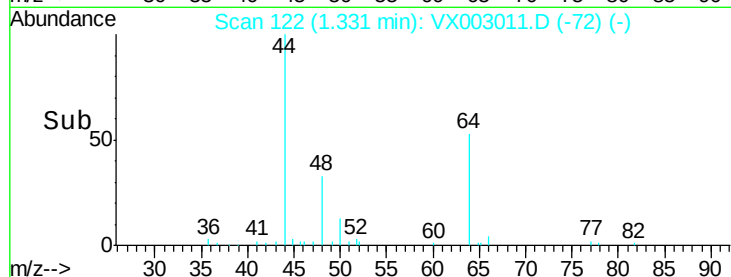
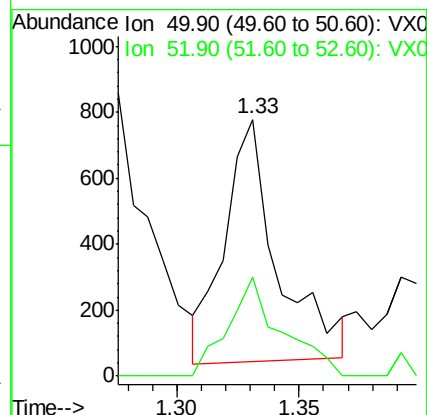
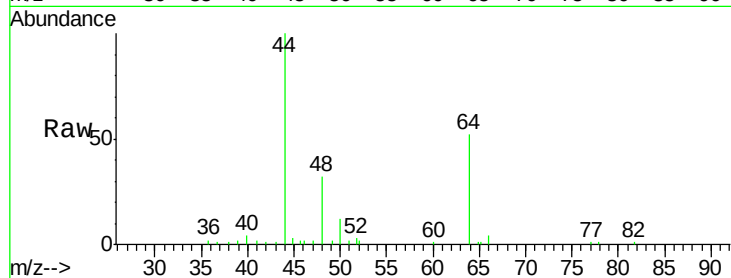
LIC-PV-TRIPBLANK-1-6-19-18

Tot Ion: 50 Resp: 1097

Ion Ratio Lower Upper

50 100

52 50.5 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX003011.D

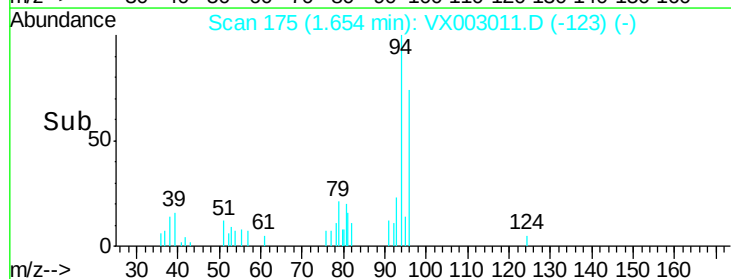
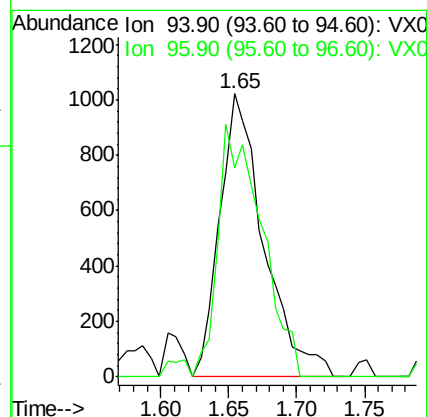
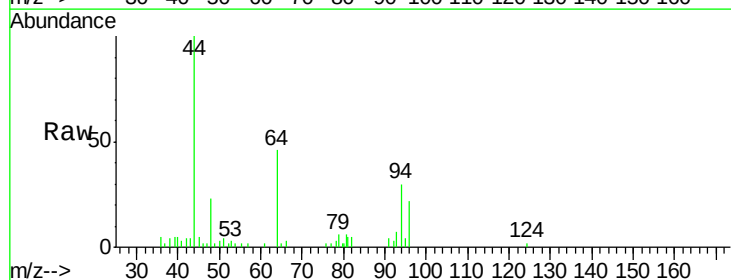
Acq: 29 Jun 2018 04:03

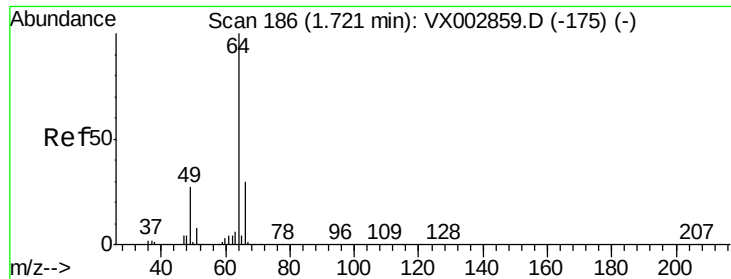
Tgt Ion: 94 Resp: 2301

Ion Ratio Lower Upper

94 100

96 73.8 74.9 112.3#





#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

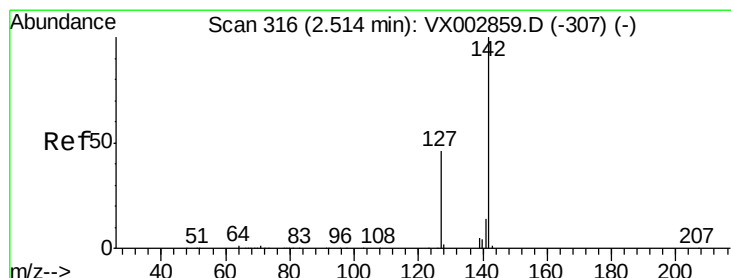
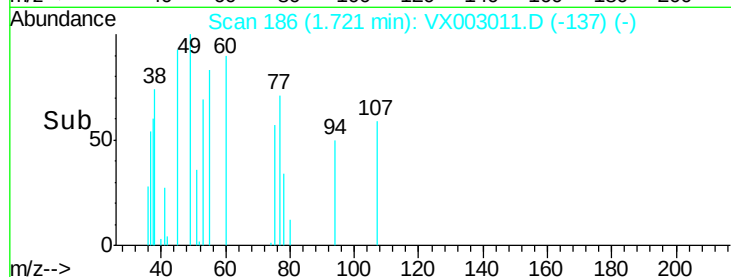
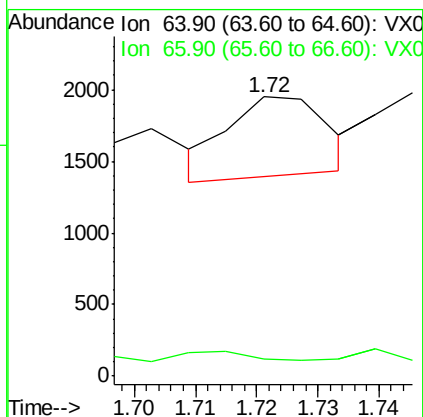
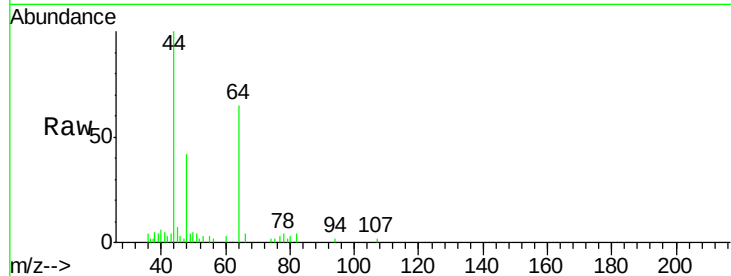
LIC-PV-TRIPBLANK-1-6-19-18

Tot Ion: 64 Resp: 624

Ion Ratio Lower Upper

64 100

66 0.3 25.5 38.3#



#10

Methyl Iodide

Concen: 7.08 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

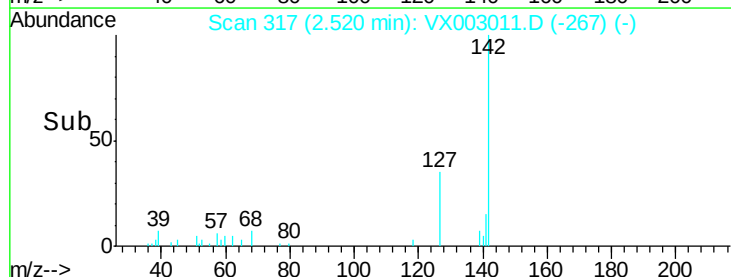
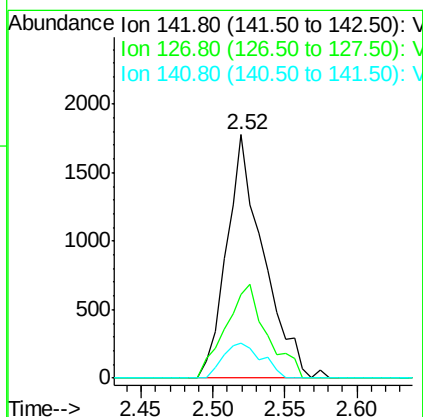
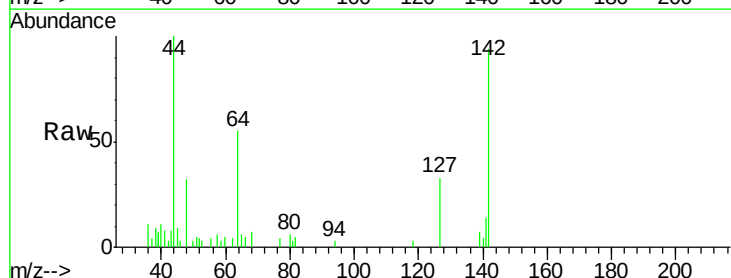
Tgt Ion: 142 Resp: 3179

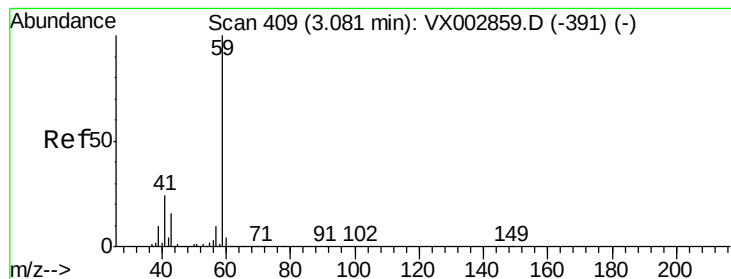
Ion Ratio Lower Upper

142 100

127 42.8 36.6 55.0

141 15.1 11.3 16.9





#11

Tert butyl alcohol

Concen: 1.71 ug/l

RT: 3.02 min Scan# 399

Delta R.T. -0.06 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

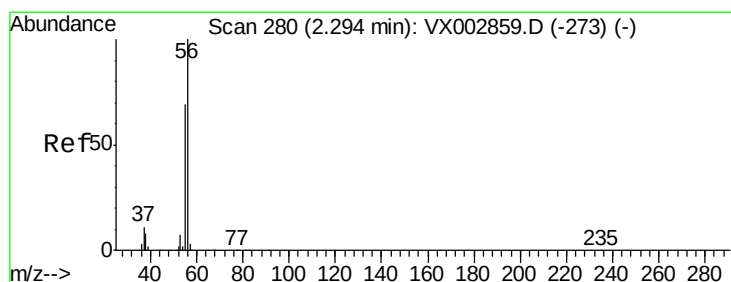
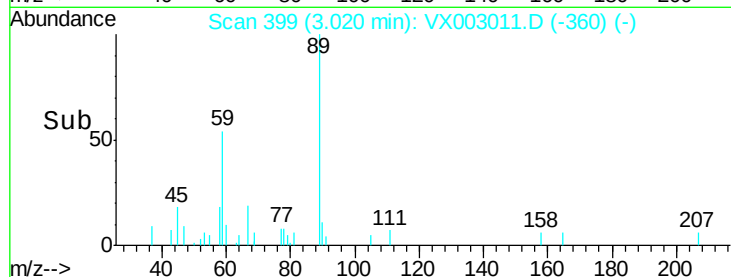
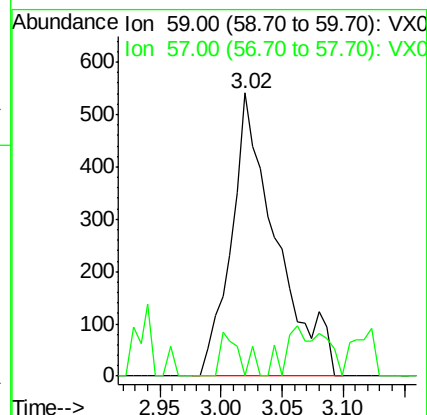
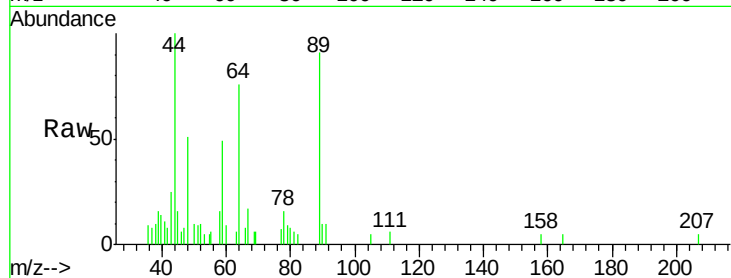
LIC-PV-TRIPBLANK-1-6-19-18

Tot Ion: 59 Resp: 1373

Ion Ratio Lower Upper

59 100

57 7.1 8.2 12.2#



#13

Acrolein

Concen: 4.89 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003011.D

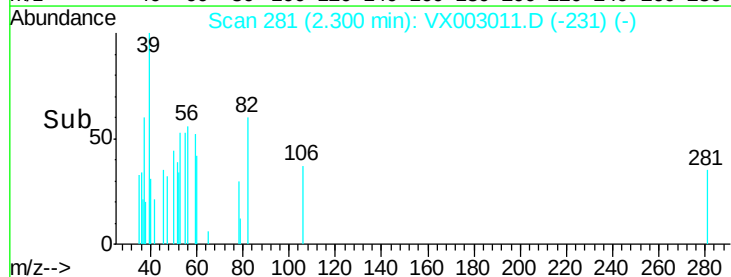
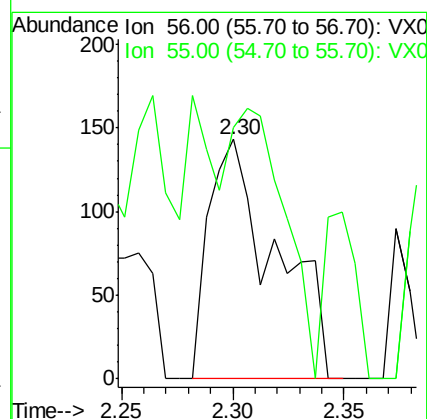
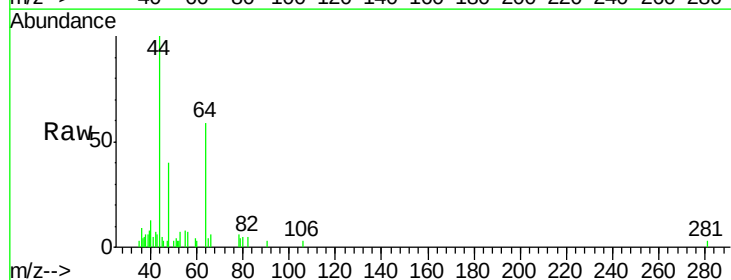
Acq: 29 Jun 2018 04:03

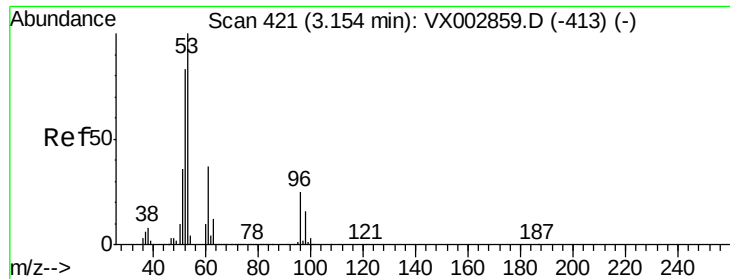
Tgt Ion: 56 Resp: 299

Ion Ratio Lower Upper

56 100

55 92.3 57.0 85.4#





#15

Acrylonitrile

Concen: 0.21 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.00 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

LIC-PV-TRIPBLANK-1-6-19-18

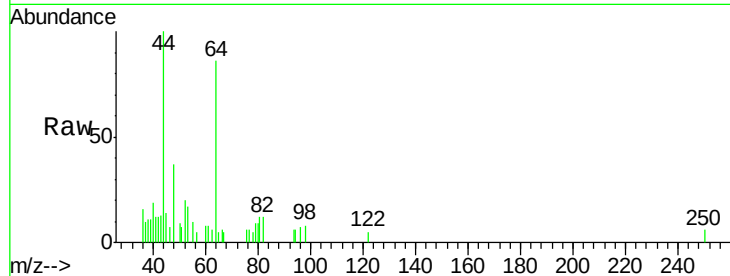
Tot Ion: 53 Resp: 359

Ion Ratio Lower Upper

53 100

52 97.5 66.7 100.1

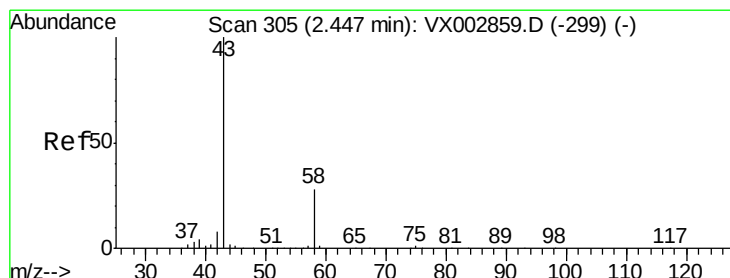
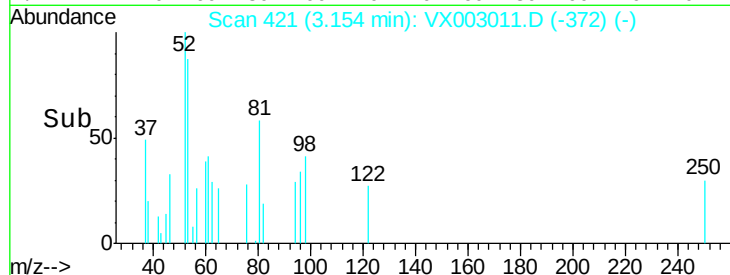
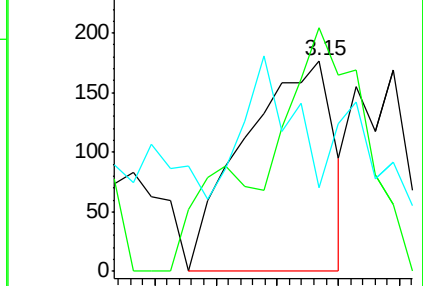
51 0.0 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 7.69 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX003011.D

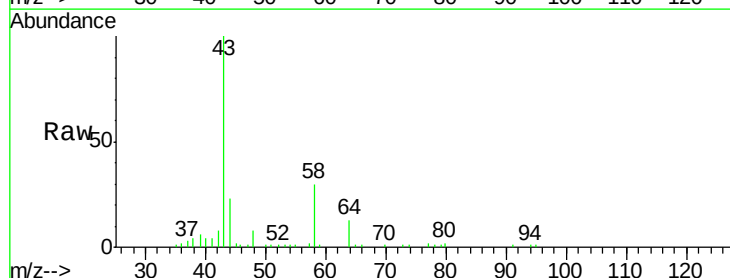
Acq: 29 Jun 2018 04:03

Tgt Ion: 43 Resp: 12860

Ion Ratio Lower Upper

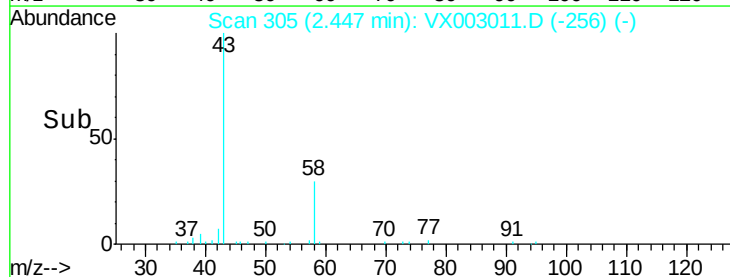
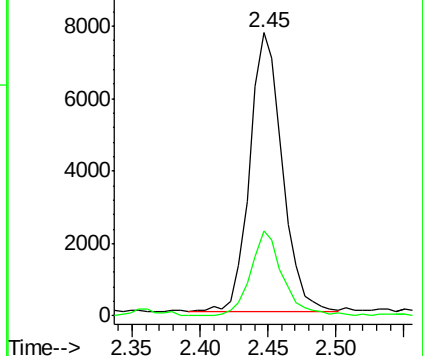
43 100

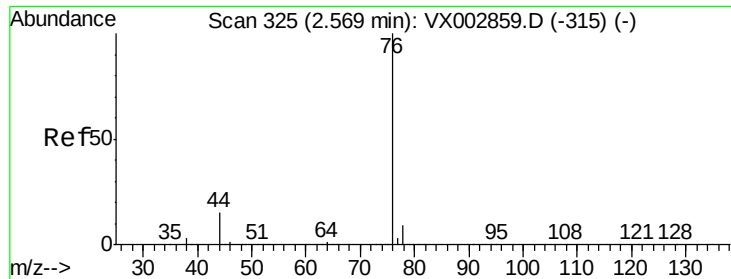
58 30.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

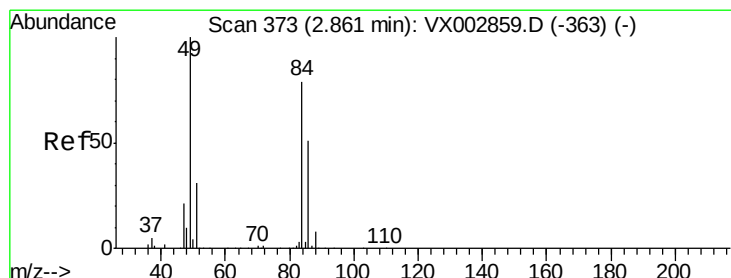
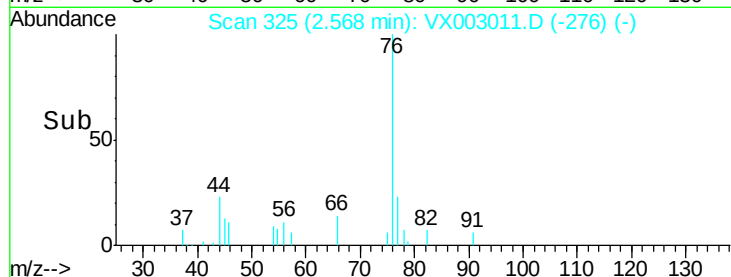
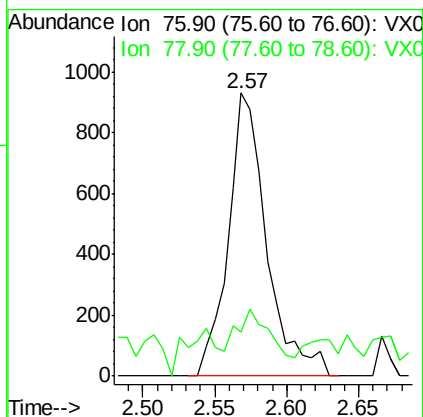
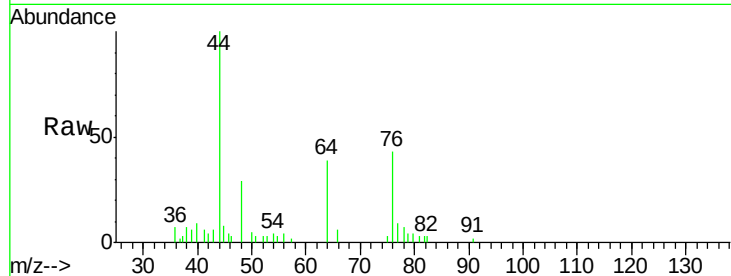




#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 2.57 min Scan# 325
Delta R.T. -0.00 min
Lab File: VX003011.D
Acq: 29 Jun 2018 04:03

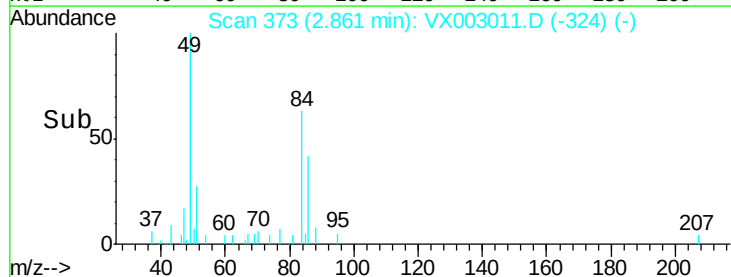
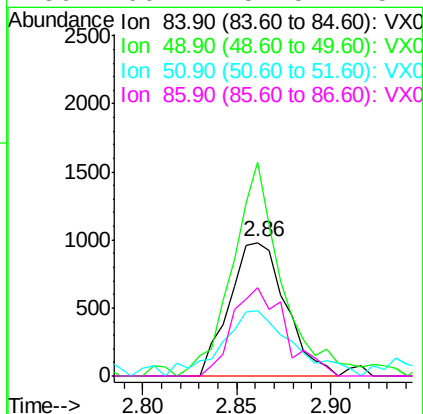
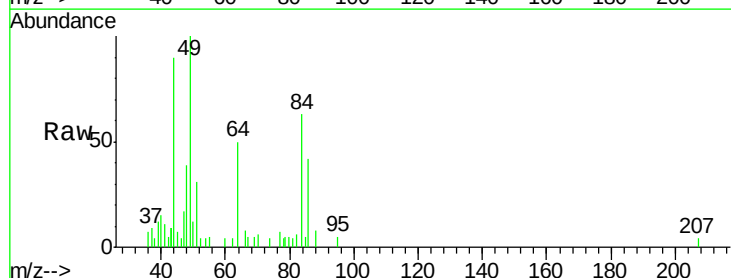
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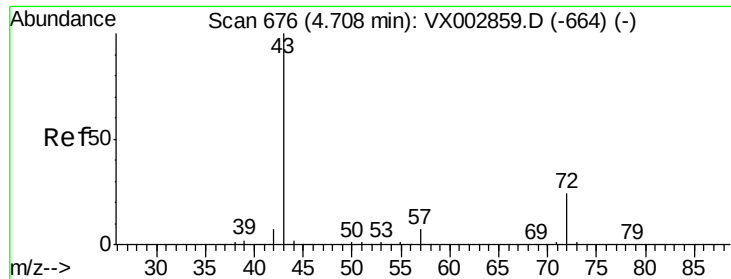
Tot Ion: 76 Resp: 1733
Ion Ratio Lower Upper
76 100
78 7.4 6.9 10.3



#20
Methylene Chloride
Concen: 0.63 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX003011.D
Acq: 29 Jun 2018 04:03

Tgt Ion: 84 Resp: 2036
Ion Ratio Lower Upper
84 100
49 153.5 107.8 161.6
51 43.5 32.8 49.2
86 66.4 52.5 78.7

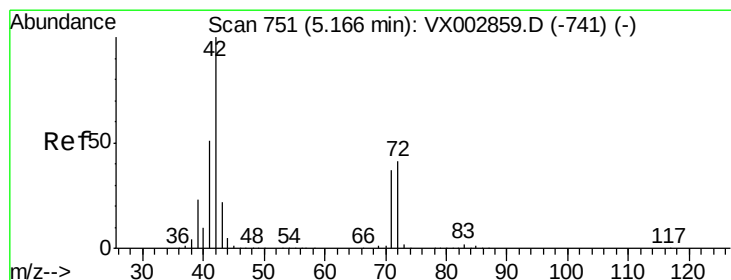
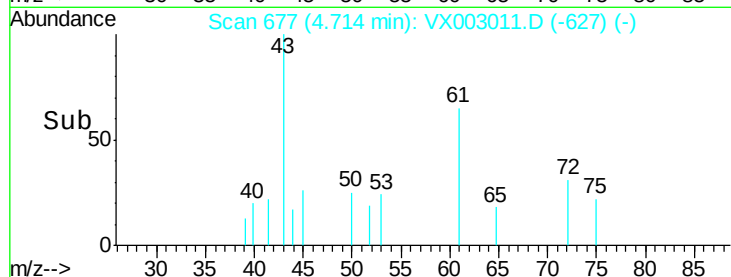
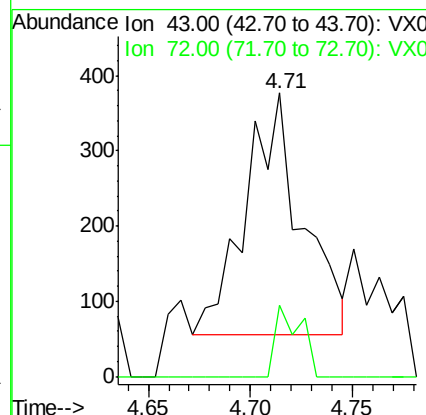
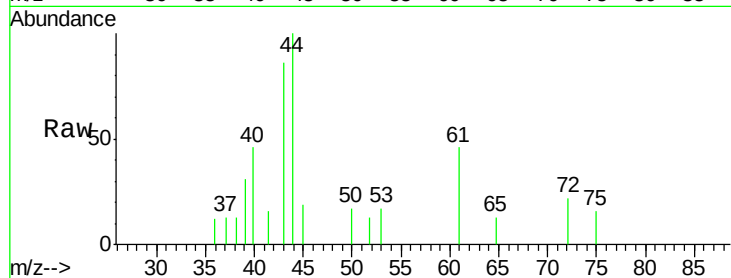




#25
2-Butanone
Concen: 0.25 ug/l
RT: 4.71 min Scan# 677
Delta R.T. 0.01 min
Lab File: VX003011.D
Acq: 29 Jun 2018 04:03

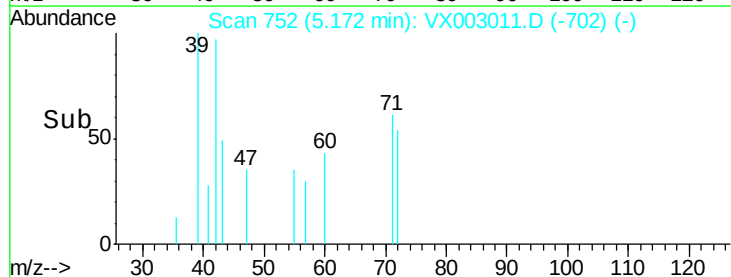
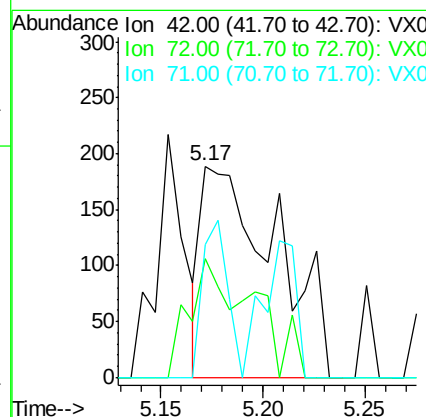
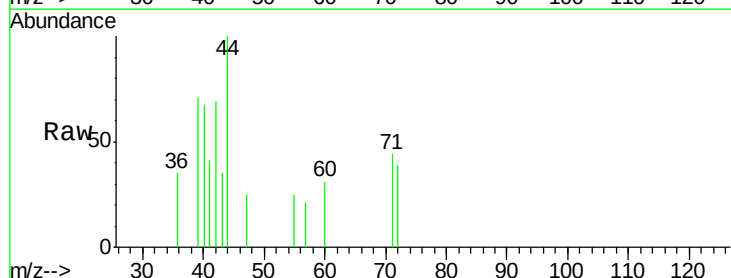
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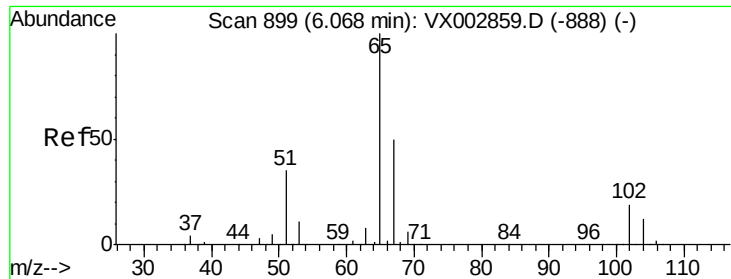
Tot Ion: 43 Resp: 616
Ion Ratio Lower Upper
43 100
72 29.6 18.5 27.7#



#29
Tetrahydrofuran
Concen: 0.30 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX003011.D
Acq: 29 Jun 2018 04:03

Tgt Ion: 42 Resp: 482
Ion Ratio Lower Upper
42 100
72 27.6 32.0 48.0#
71 25.1 30.1 45.1#

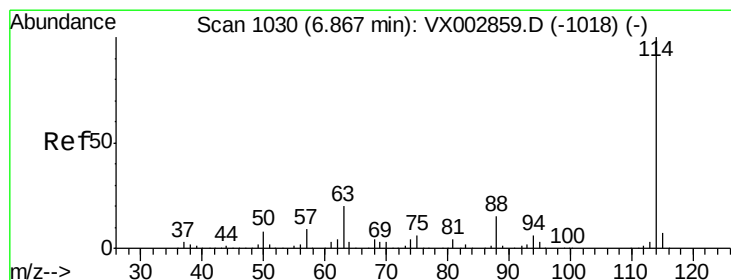
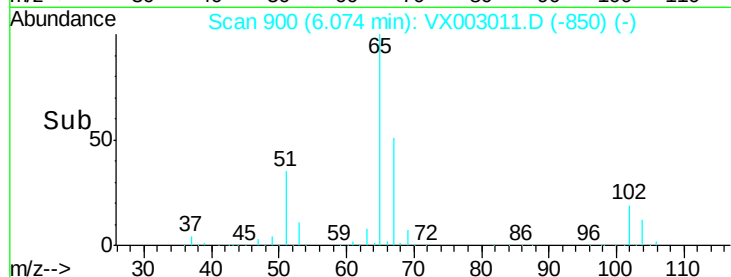
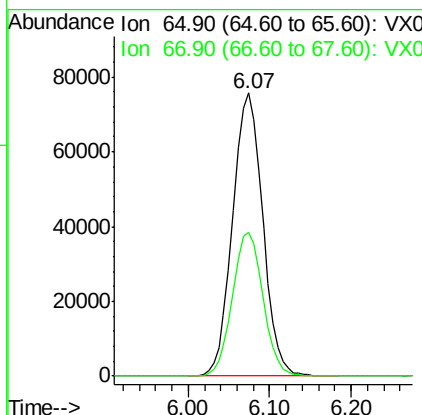
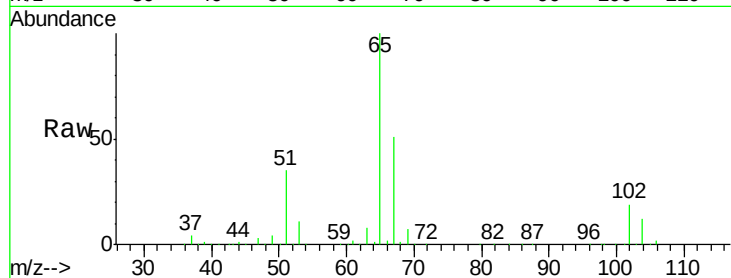




#33
 1,2-Dichloroethane-d4
 Concen: 48.02 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.01 min
 Lab File: VX003011.D
 Acq: 29 Jun 2018 04:03

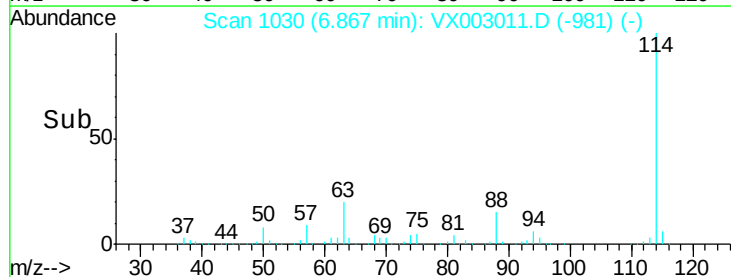
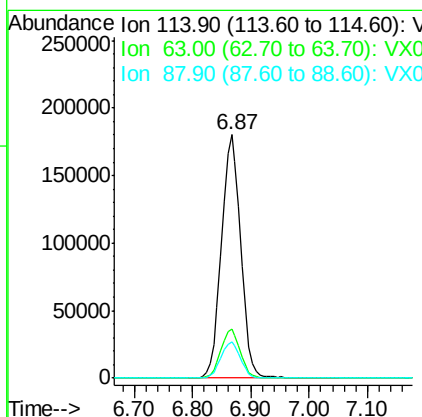
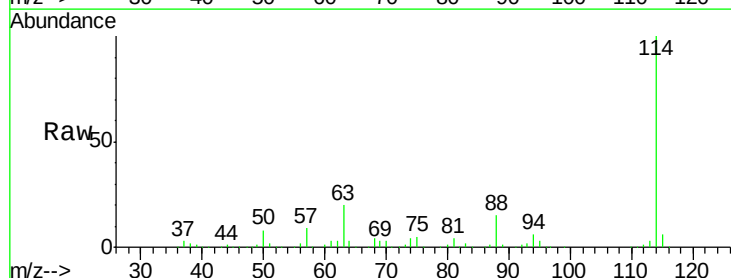
Instrument :
 MSVOA_X
 ClientSampleId :
 LIC-PV-TRIPBLANK-1-6-19-18

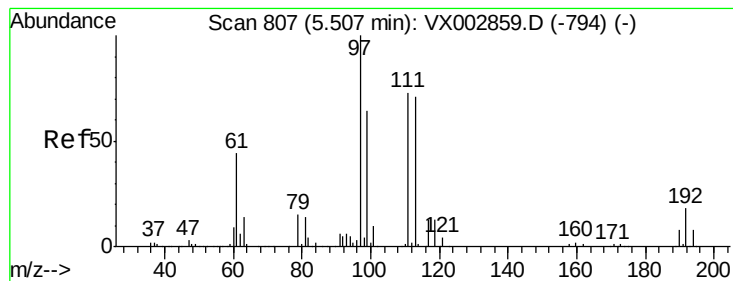
Tot Ion: 65 Resp: 194042
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX003011.D
 Acq: 29 Jun 2018 04:03

Tgt Ion: 114 Resp: 413990
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.4
 88 15.0 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.82 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

LIC-PV-TRIPBLANK-1-6-19-18

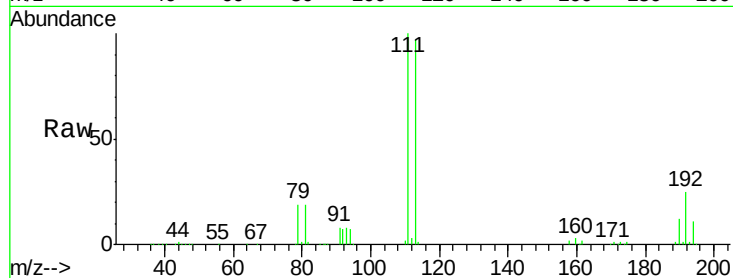
Tot Ion:113 Resp: 156768

Ion Ratio Lower Upper

113 100

111 102.7 81.4 122.0

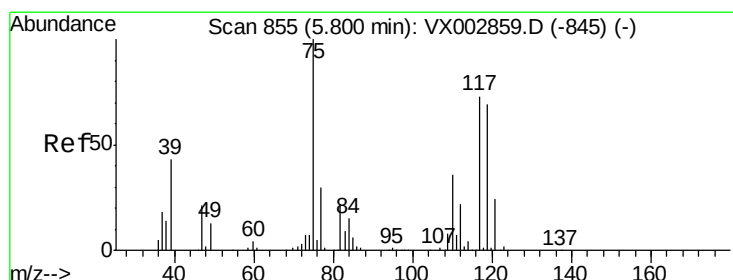
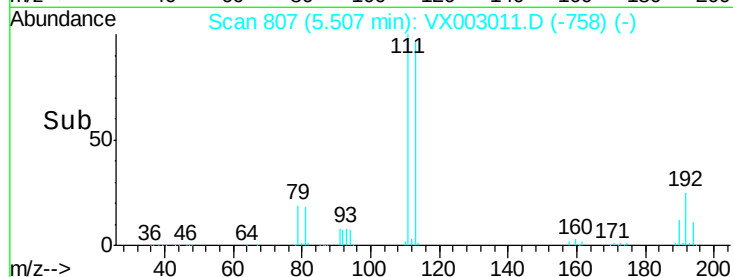
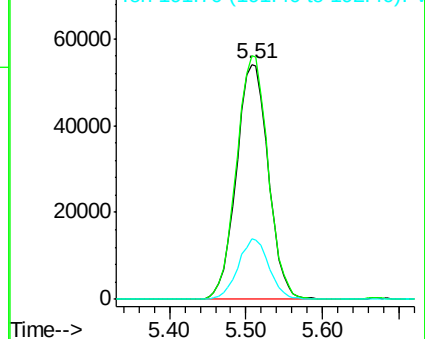
192 24.9 19.1 28.7



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: 4.38 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

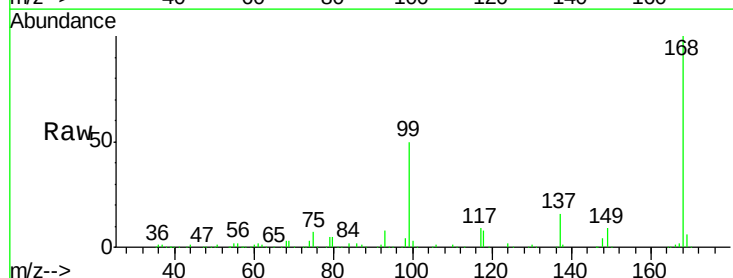
Tgt Ion: 75 Resp: 19882

Ion Ratio Lower Upper

75 100

110 9.8 18.1 54.4#

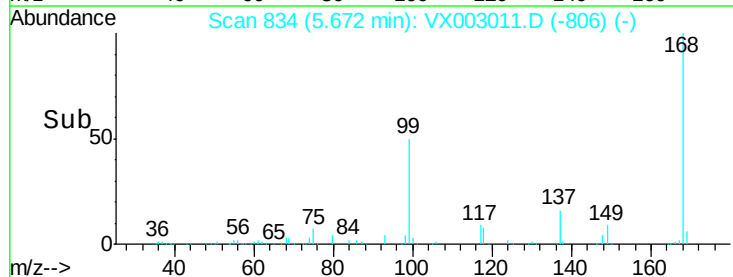
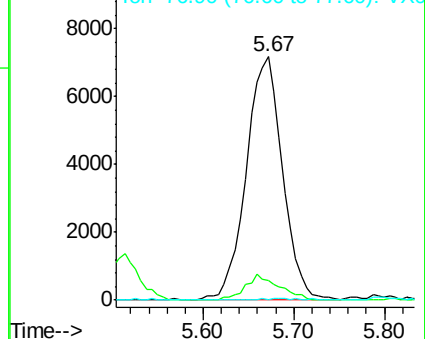
77 0.0 24.3 36.5#

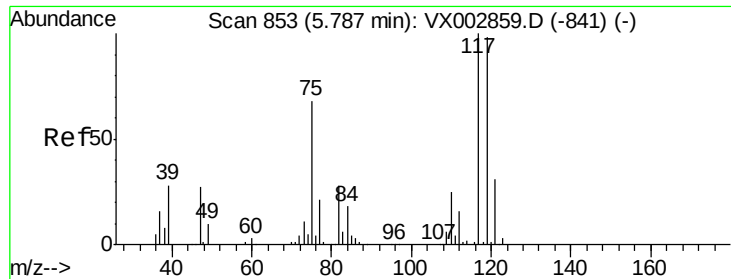


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.40 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

LIC-PV-TRIPBLANK-1-6-19-18

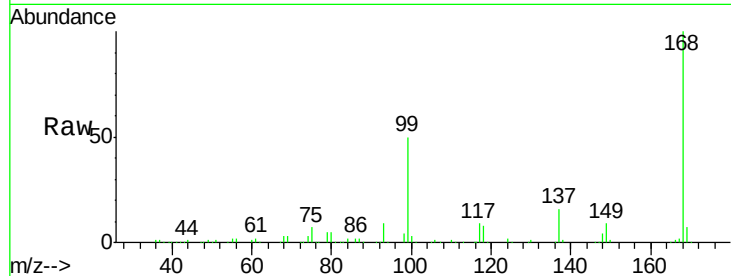
Tot Ion:117 Resp: 26911

Ion Ratio Lower Upper

117 100

119 5.4 77.4 116.0#

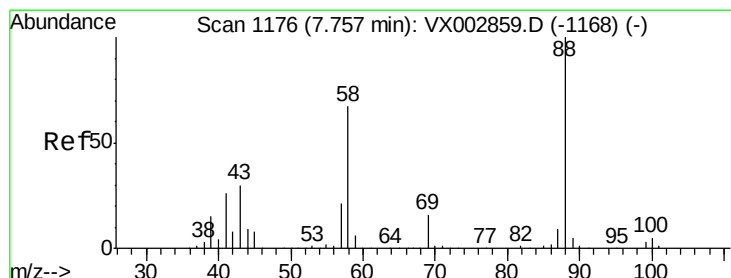
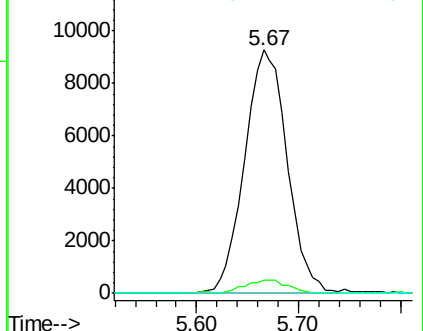
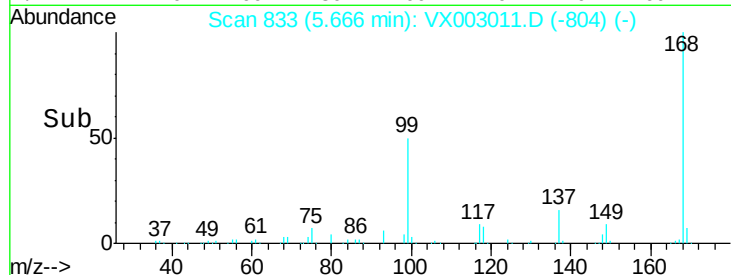
121 0.0 24.4 36.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.24 ug/l

RT: 7.88 min Scan# 1197

Delta R.T. 0.13 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

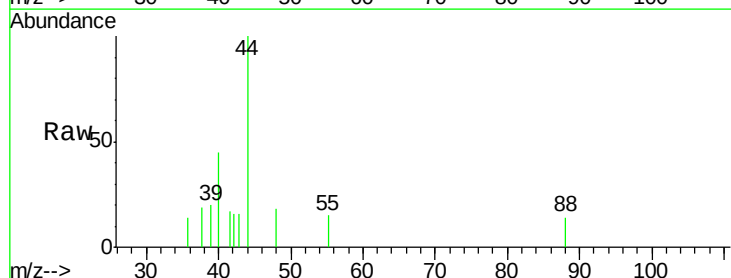
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 595.0 29.8 44.6#

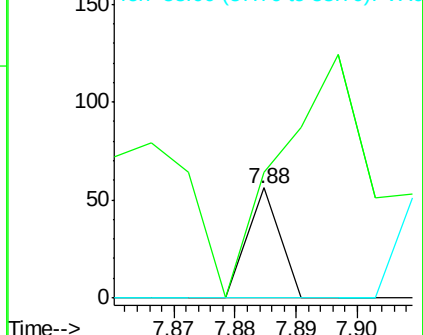
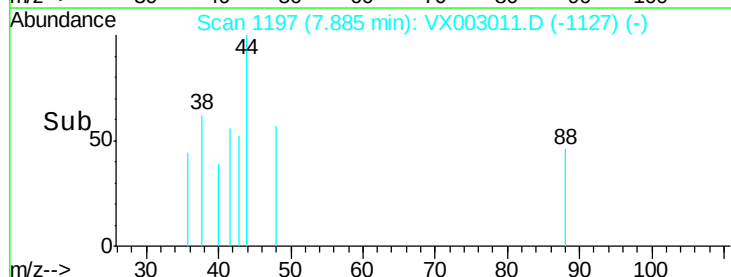
58 0.0 57.1 85.7#

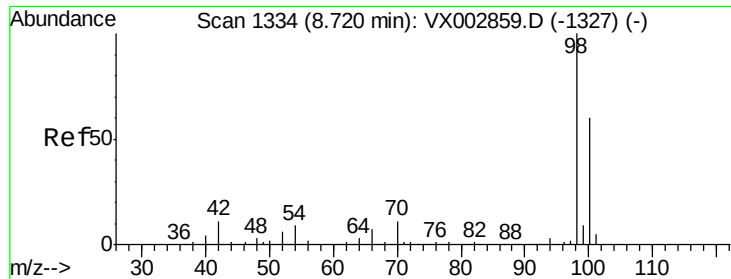


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

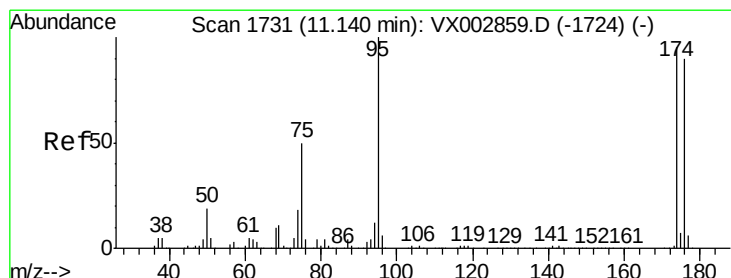
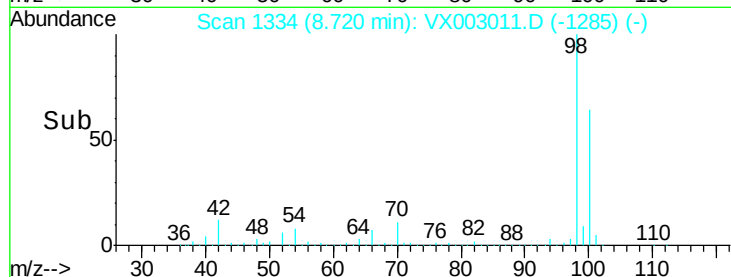
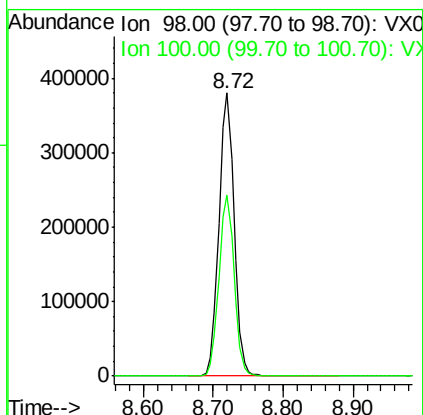
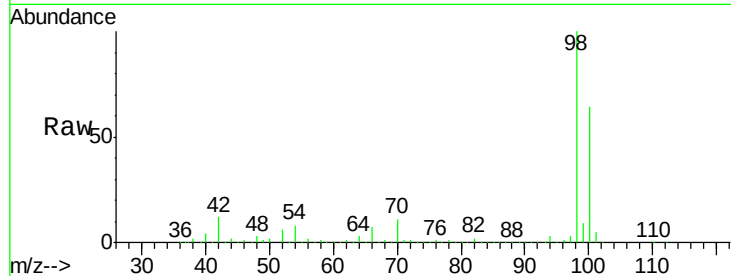




#50
Toluene-d8
Concen: 48.15 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003011.D
Acq: 29 Jun 2018 04:03

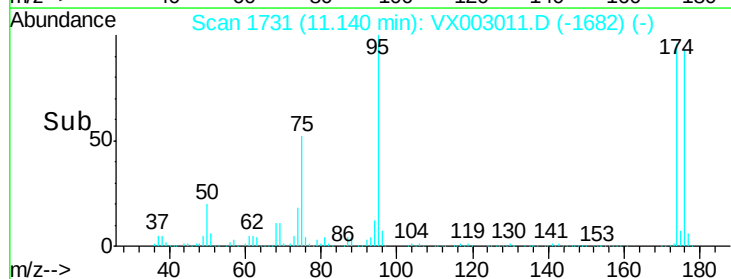
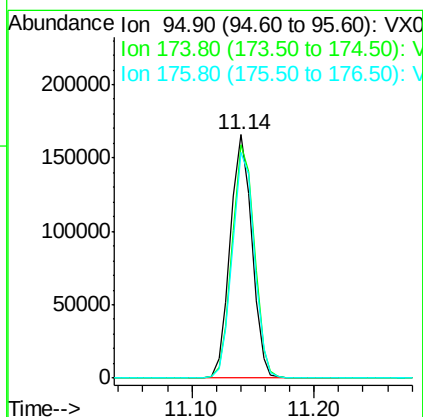
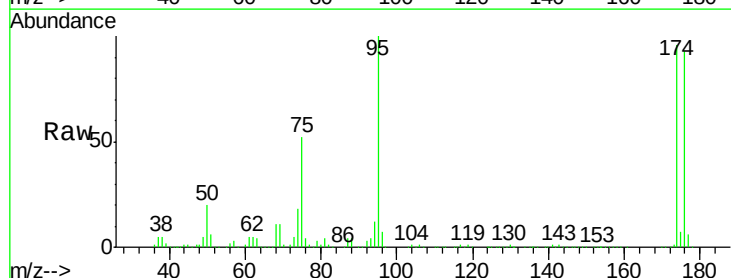
Instrument :
MSVOA_X
ClientSampleId :
LIC-PV-TRIPBLANK-1-6-19-18

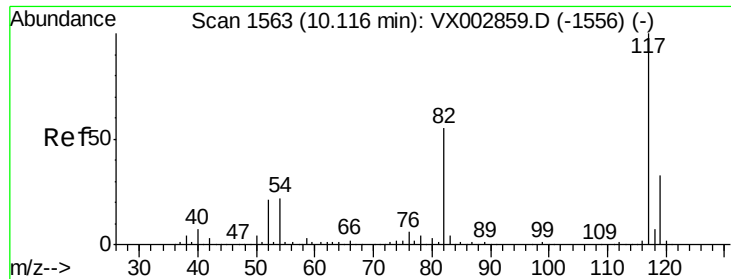
Tot Ion: 98 Resp: 576470
Ion Ratio Lower Upper
98 100
100 64.2 50.9 76.3



#62
4-Bromofluorobenzene
Concen: 43.84 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003011.D
Acq: 29 Jun 2018 04:03

Tgt Ion: 95 Resp: 202405
Ion Ratio Lower Upper
95 100
174 98.4 0.0 187.4
176 94.0 0.0 181.0





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

LIC-PV-TRIPBLANK-1-6-19-18

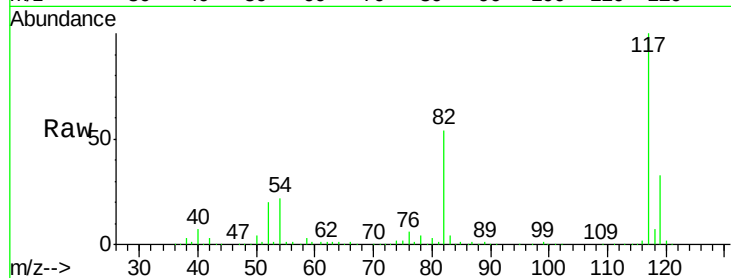
Tot Ion:117 Resp: 377565

Ion Ratio Lower Upper

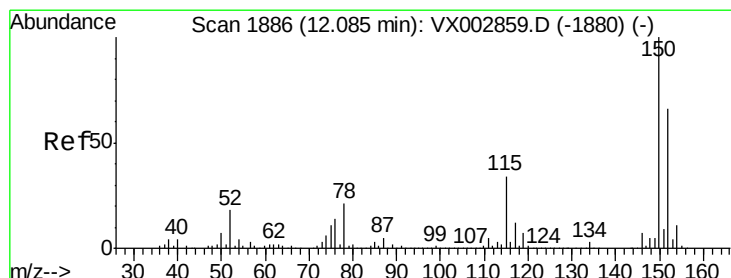
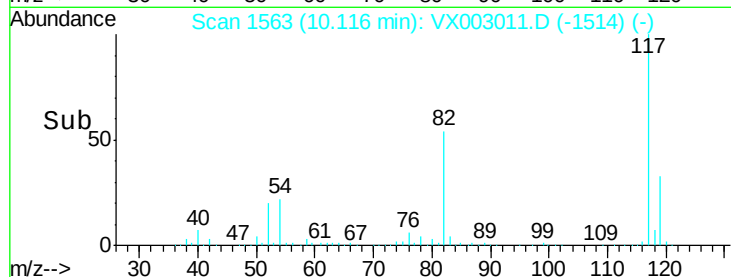
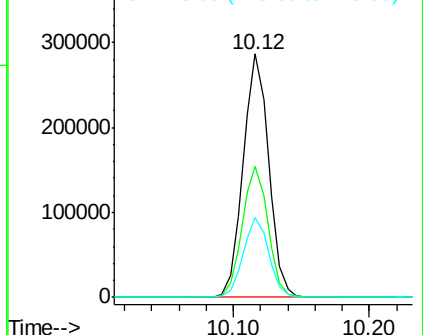
117 100

82 54.0 45.0 67.4

119 32.6 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

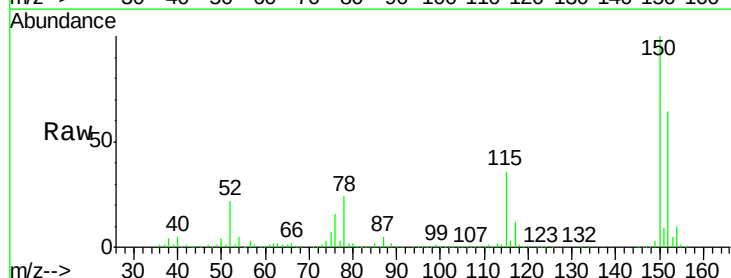
Tgt Ion:152 Resp: 215627

Ion Ratio Lower Upper

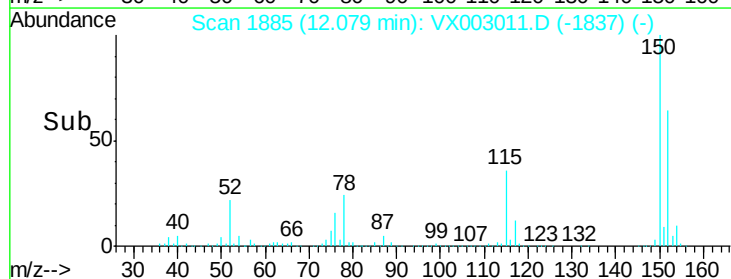
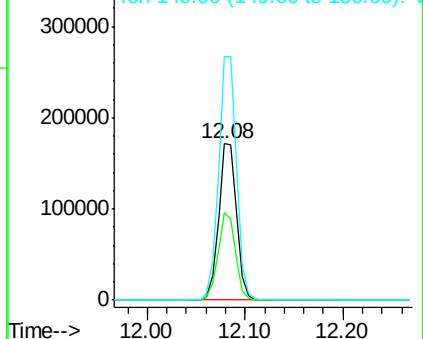
152 100

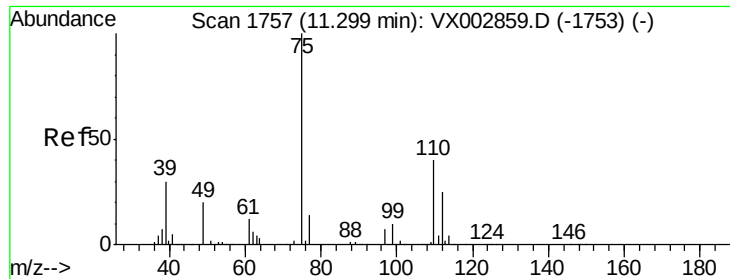
115 54.3 40.1 120.2

150 155.6 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.90 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

Instrument :

MSVOA_X

ClientSampleId :

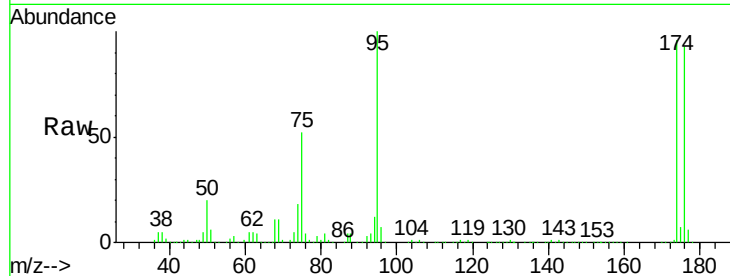
LIC-PV-TRIPBLANK-1-6-19-18

Tot Ion: 75 Resp: 105074

Ion Ratio Lower Upper

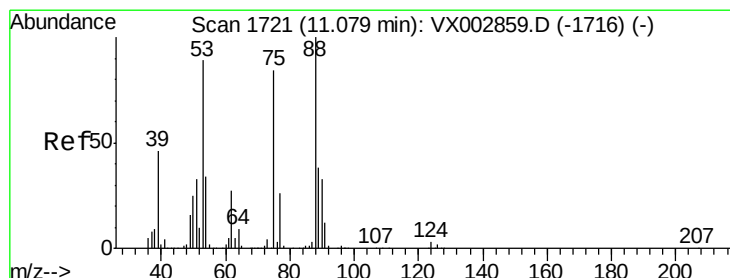
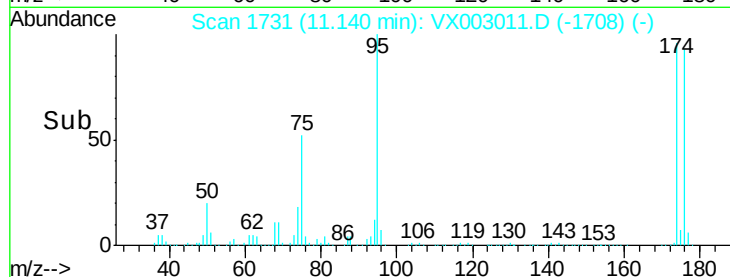
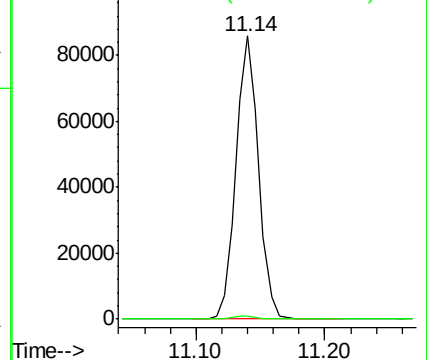
75 100

77 1.2 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 76.17 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003011.D

Acq: 29 Jun 2018 04:03

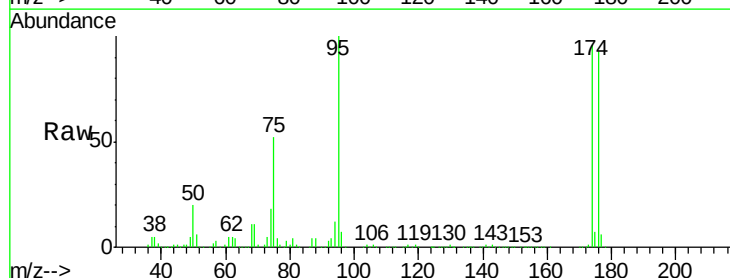
Tgt Ion: 75 Resp: 105074

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.1 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

