

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX002992.D
 Acq On : 28 Jun 2018 18:20
 Operator : JC/MD
 Sample : J3717-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 N48971

Quant Time: Jun 29 06:11:12 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	262449	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	358712	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	338500	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	197075	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	171670	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
35) Dibromofluoromethane	5.51	113	141257	49.73	ug/l	0.00
Spiked Amount			Recovery	=	99.46%	
50) Toluene-d8	8.72	98	509709	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
62) 4-Bromofluorobenzene	11.14	95	184135	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	

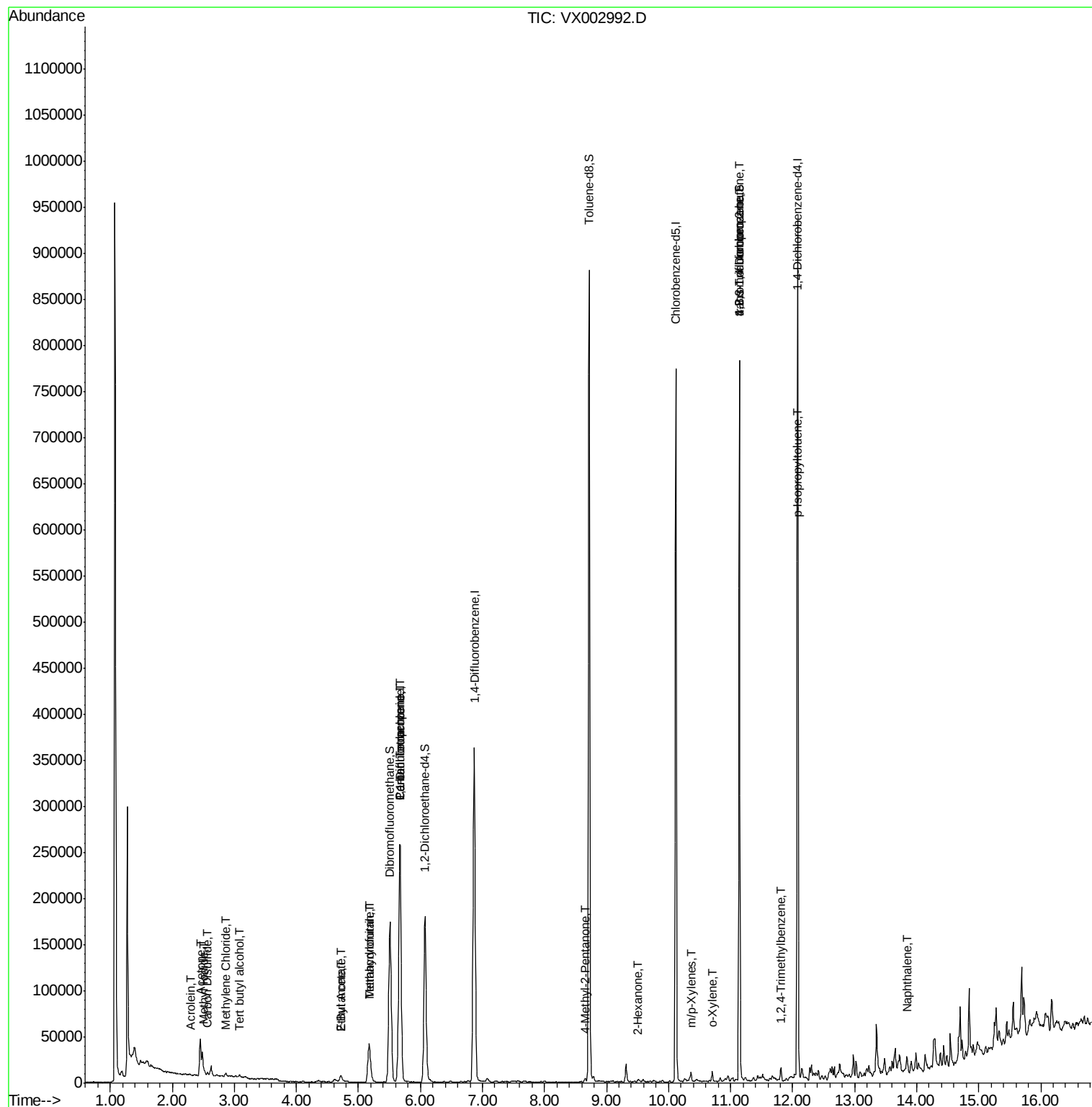
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	90	Below Cal	#	43
3) Chloromethane	1.32	50	1584	Below Cal	#	76
5) Bromomethane	1.65	94	2219	Below Cal		82
6) Chloroethane	1.90	64	676	Below Cal	#	56
10) Methyl Iodide	2.51	142	4021	7.42	ug/l	95
11) Tert butyl alcohol	3.07	59	2612	3.61	ug/l #	87
13) Acrolein	2.29	56	293	4.95	ug/l #	34
16) Acetone	2.45	43	42628	28.38	ug/l	100
17) Carbon Disulfide	2.57	76	5113	0.74	ug/l	100
20) Methylene Chloride	2.85	84	1447	0.49	ug/l #	59
25) 2-Butanone	4.72	43	12383	5.55	ug/l	94
29) Tetrahydrofuran	5.17	42	36909	25.82	ug/l	98
36) 1,1-Dichloropropene	5.67	75	17508	4.45	ug/l #	52
37) Ethyl Acetate	4.72	43	12383	2.92	ug/l #	70
38) Carbon Tetrachloride	5.67	117	23466	5.44	ug/l #	17
41) Methacrylonitrile	5.17	41	21471	8.80	ug/l #	52
51) 4-Methyl-2-Pentanone	8.65	43	2197	0.49	ug/l #	86
59) 2-Hexanone	9.51	43	1114	0.33	ug/l	68
68) m/p-Xylenes	10.36	106	2272	0.42	ug/l	98
69) o-Xylene	10.70	106	2121	0.40	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	95076	26.63	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	95076	75.44	ug/l #	7
84) 1,2,4-Trimethylbenzene	11.81	105	5391	0.47	ug/l	99
86) p-Isopropyltoluene	12.07	119	12265	1.02	ug/l	94
95) Naphthalene	13.84	128	11033	0.82	ug/l #	88

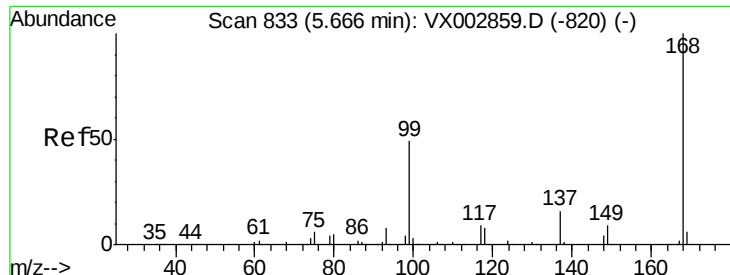
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X062518W.M
Quant Title : SW846 8260
QLast Update : Mon Jun 25 14:38:05 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.01 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

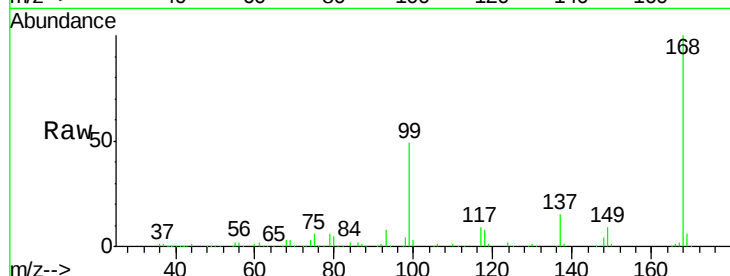
N48971

Tot Ion:168 Resp: 262449

Ion Ratio Lower Upper

168 100

99 49.1 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

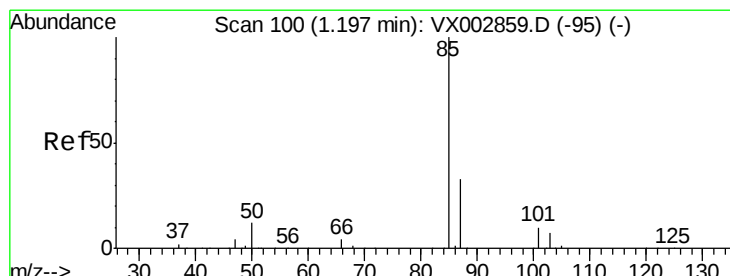
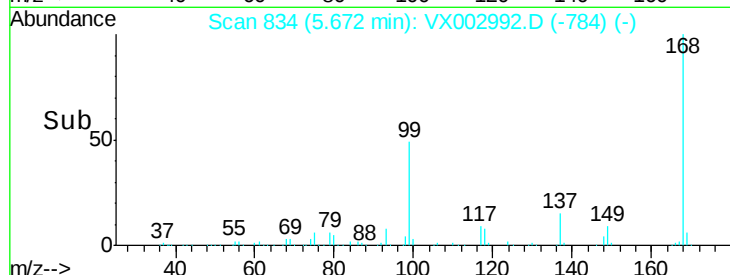
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX002992.D

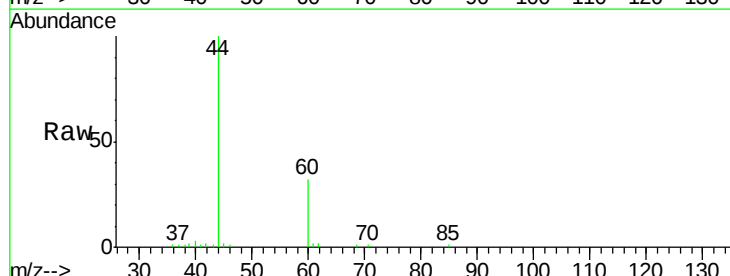
Acq: 28 Jun 2018 18:20

Tgt Ion: 85 Resp: 90

Ion Ratio Lower Upper

85 100

87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

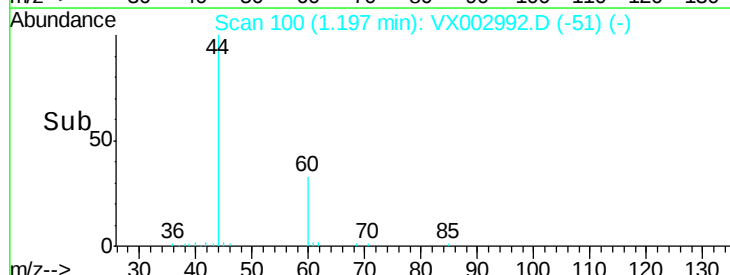
60

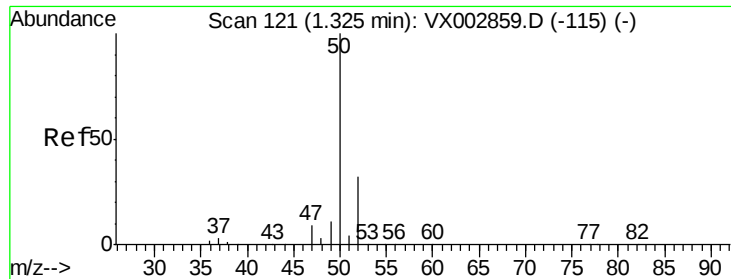
40

20

0

Time--> 1.18 1.20 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

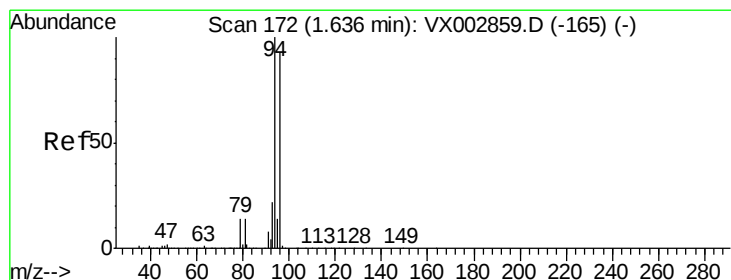
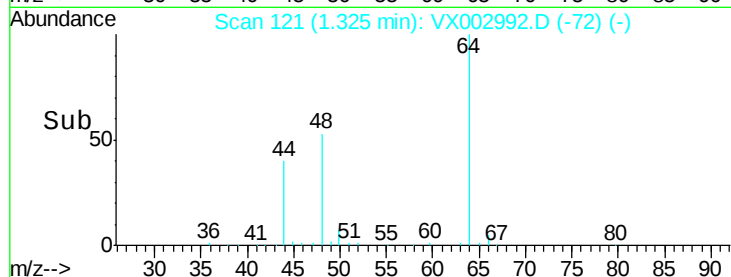
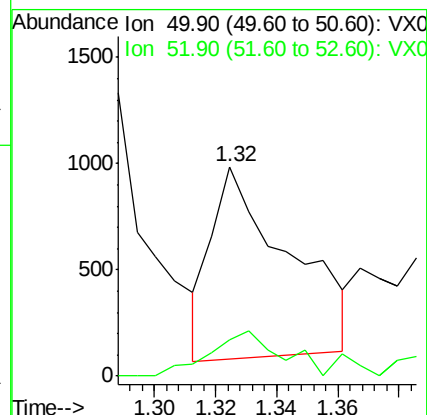
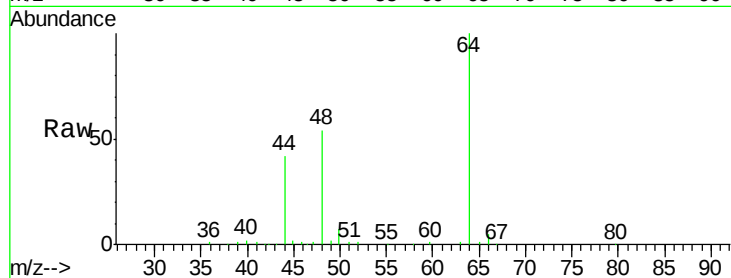
N48971

Tot Ion: 50 Resp: 1584

Ion Ratio Lower Upper

50 100

52 18.8 25.7 38.5#



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 174

Delta R.T. 0.01 min

Lab File: VX002992.D

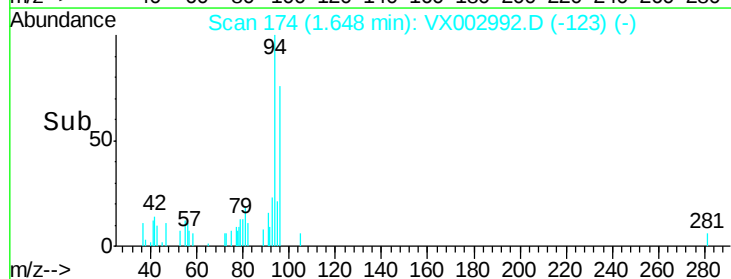
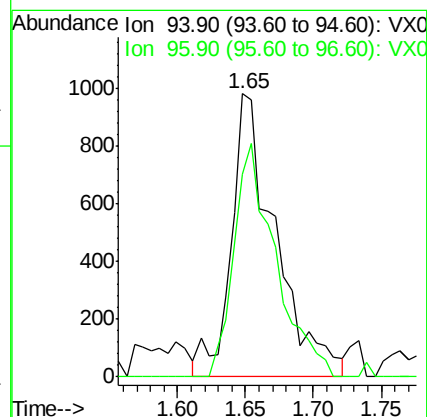
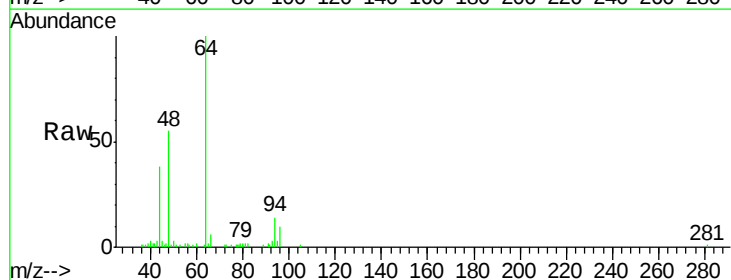
Acq: 28 Jun 2018 18:20

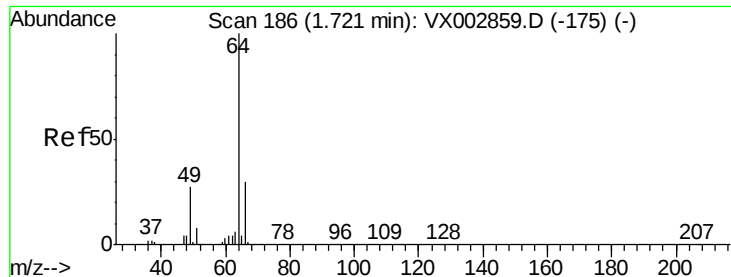
Tgt Ion: 94 Resp: 2219

Ion Ratio Lower Upper

94 100

96 75.9 74.9 112.3





#6

Chloroethane

Concen: Below Cal

RT: 1.90 min Scan# 215

Delta R.T. 0.18 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampled :

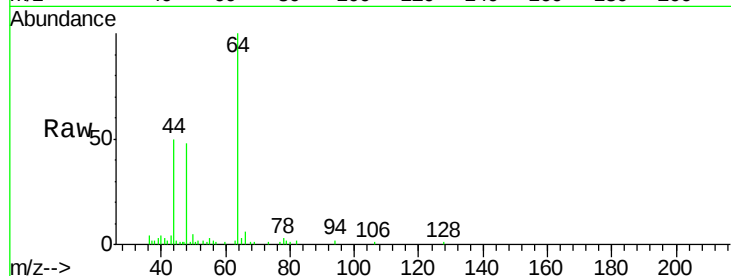
N48971

Tot Ion: 64 Resp: 676

Ion Ratio Lower Upper

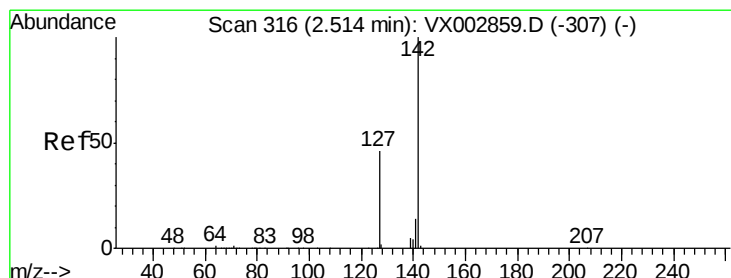
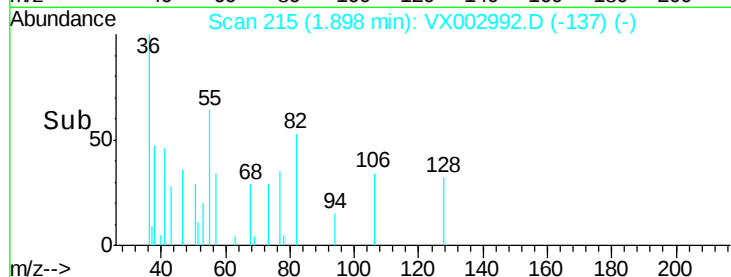
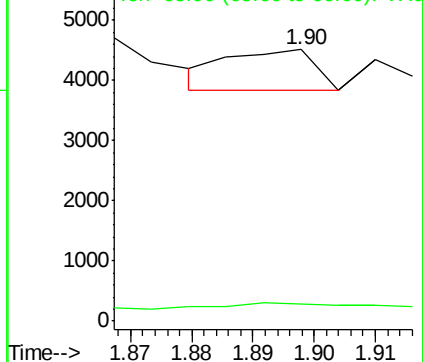
64 100

66 7.6 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#10

Methyl Iodide

Concen: 7.42 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

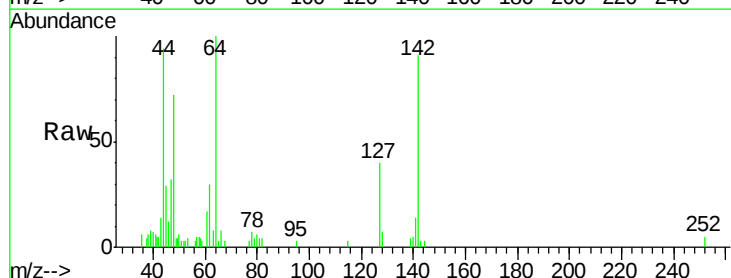
Tgt Ion:142 Resp: 4021

Ion Ratio Lower Upper

142 100

127 42.5 36.6 55.0

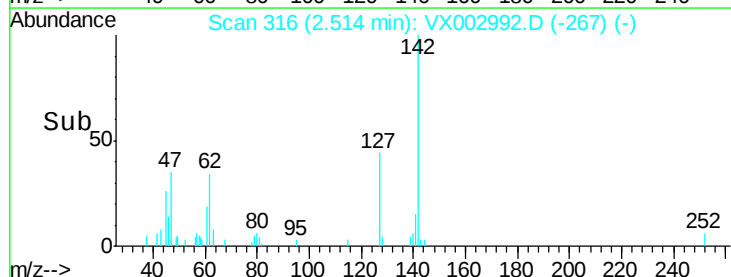
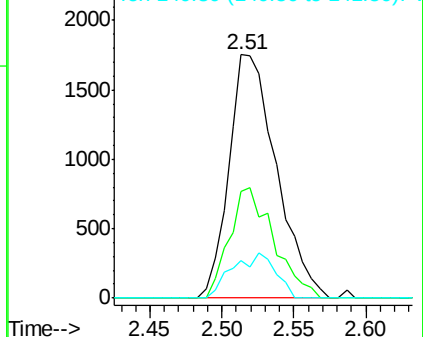
141 16.7 11.3 16.9

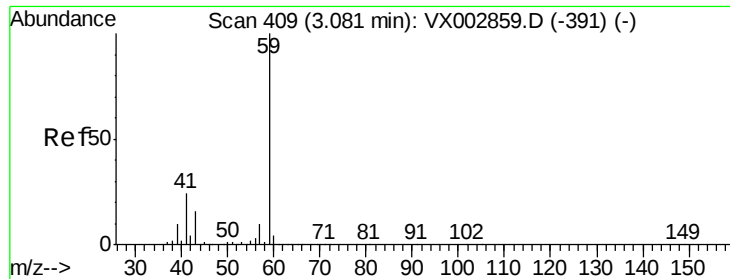


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



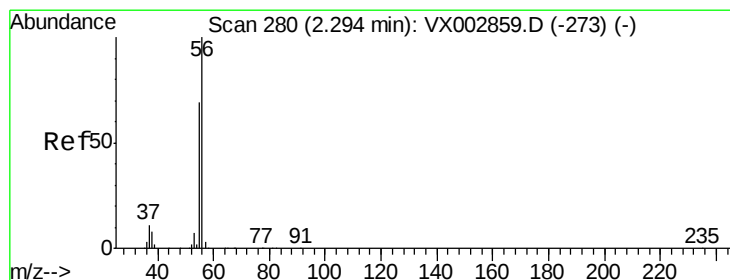
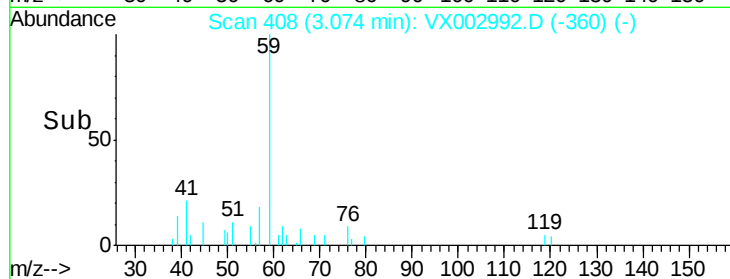
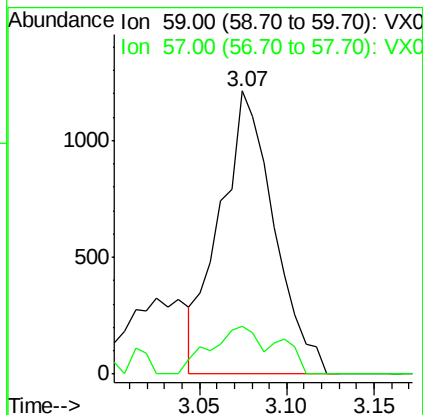
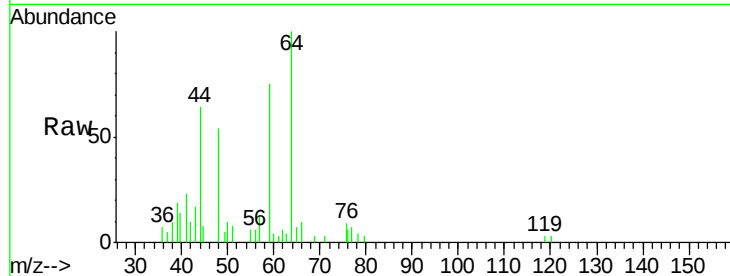


#11

Tert butvl alcohol
 Concen: 3.61 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX002992.D
 Acq: 28 Jun 2018 18:20

Instrument :
 MSVOA_X
 ClientSampled :
 N48971

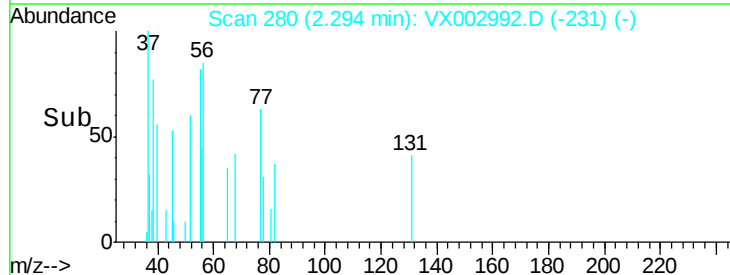
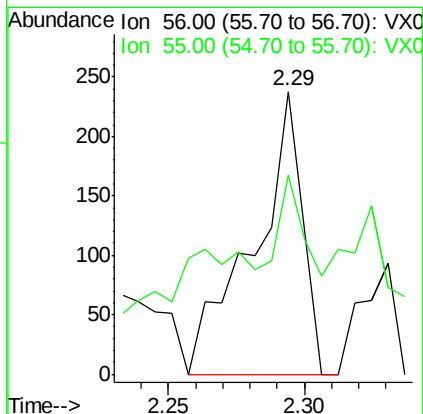
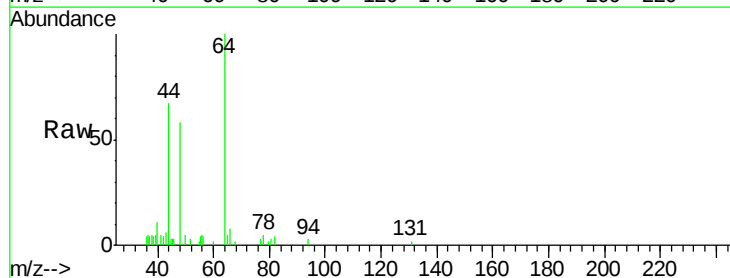
Tot Ion: 59 Resp: 2612
 Ion Ratio Lower Upper
 59 100
 57 15.0 8.2 12.2#

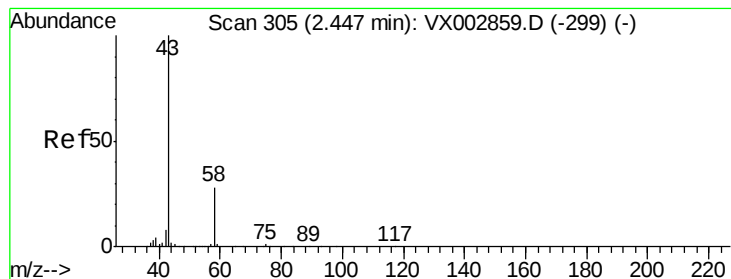


#13

Acrolein
 Concen: 4.95 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX002992.D
 Acq: 28 Jun 2018 18:20

Tgt Ion: 56 Resp: 293
 Ion Ratio Lower Upper
 56 100
 55 16.4 57.0 85.4#





#16

Acetone

Concen: 28.38 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

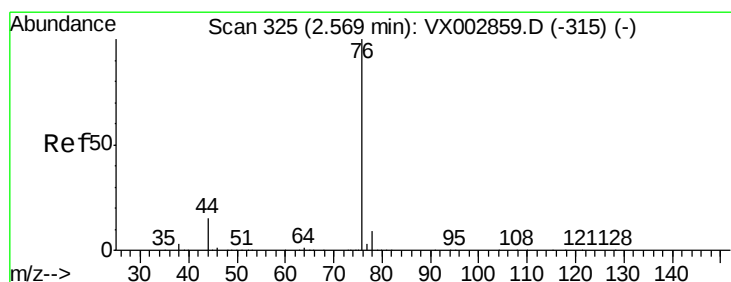
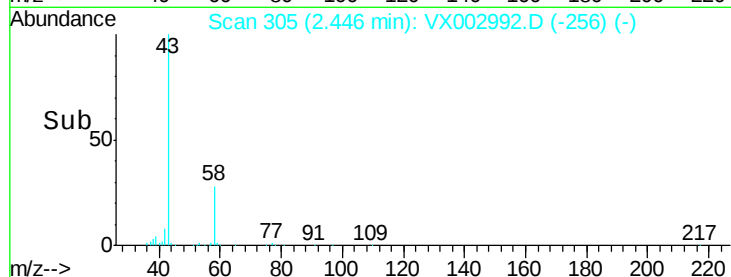
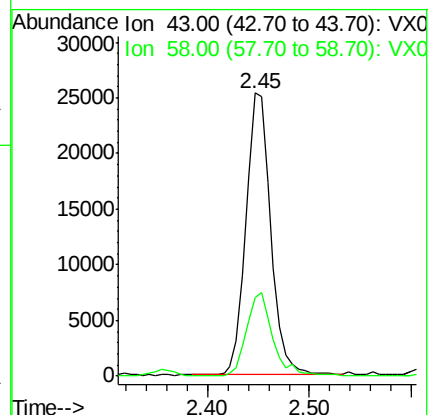
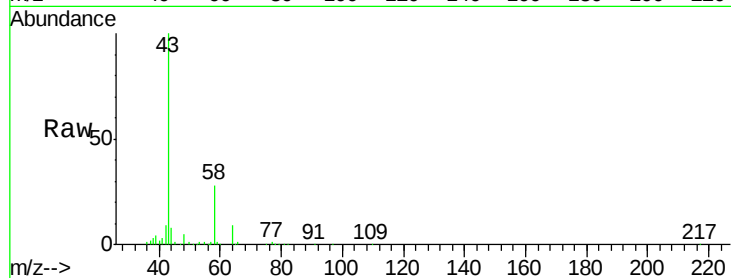
N48971

Tot Ion: 43 Resp: 42628

Ion Ratio Lower Upper

43 100

58 27.8 22.1 33.1



#17

Carbon Disulfide

Concen: 0.74 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX002992.D

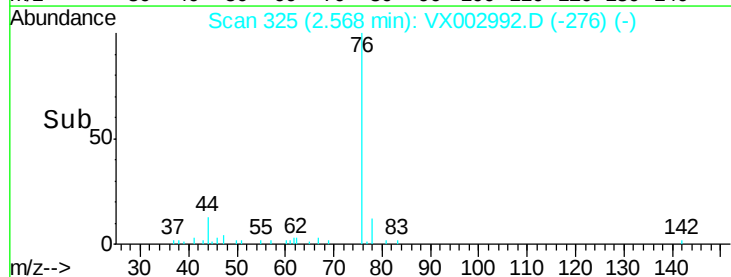
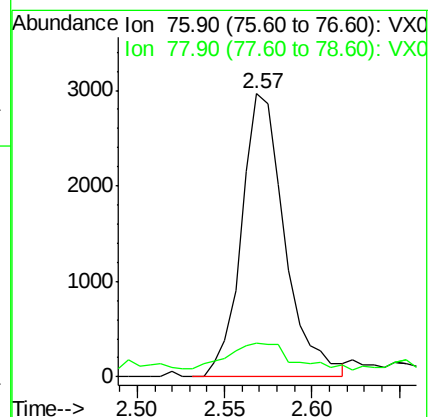
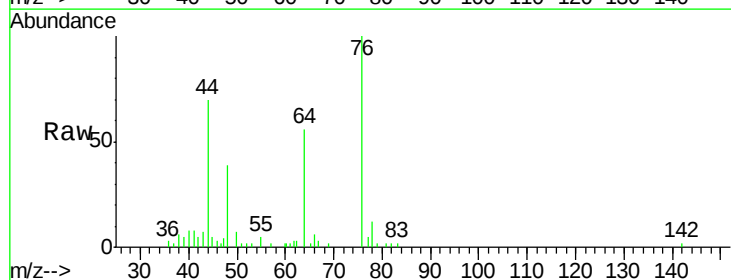
Acq: 28 Jun 2018 18:20

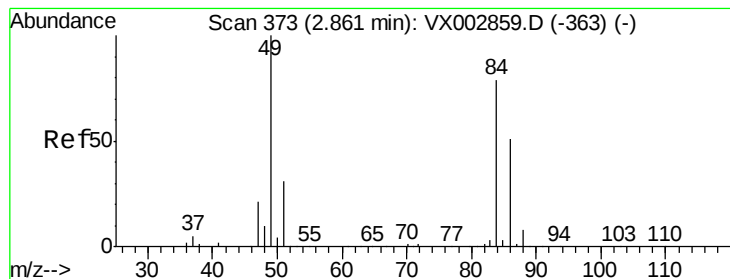
Tgt Ion: 76 Resp: 5113

Ion Ratio Lower Upper

76 100

78 8.7 6.9 10.3





#20

Methvlene Chloride

Concen: 0.49 ug/l

RT: 2.85 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampled :

N48971

Tot Ion: 84 Resp: 1447

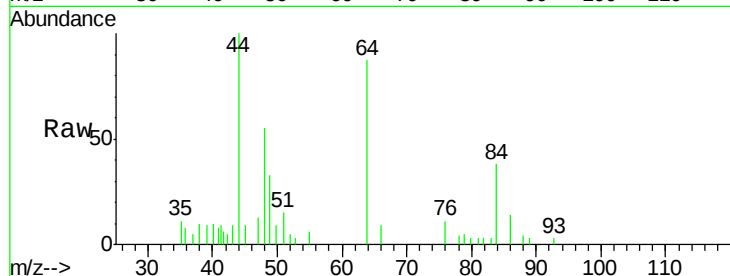
Ion Ratio Lower Upper

84 100

49 76.7 107.8 161.6#

51 27.0 32.8 49.2#

86 37.2 52.5 78.7#

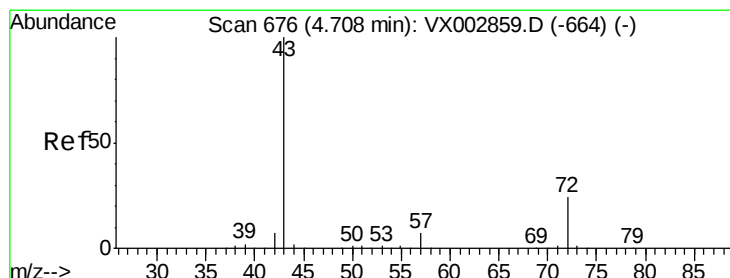
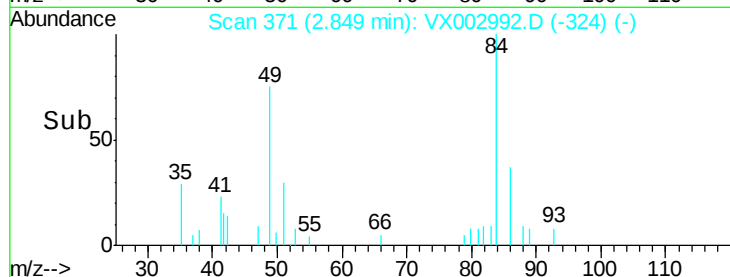
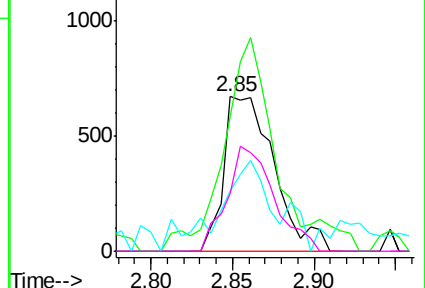


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#25

2-Butanone

Concen: 5.55 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002992.D

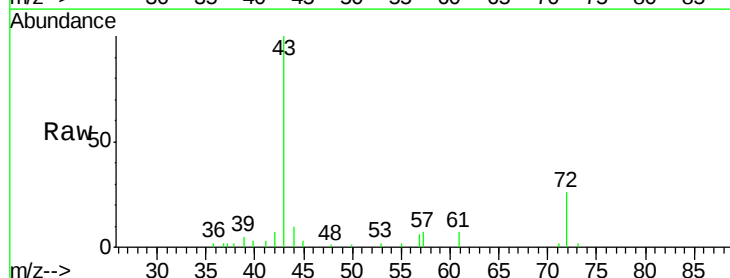
Acq: 28 Jun 2018 18:20

Tgt Ion: 43 Resp: 12383

Ion Ratio Lower Upper

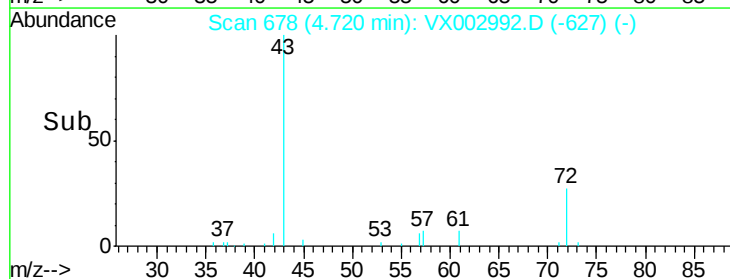
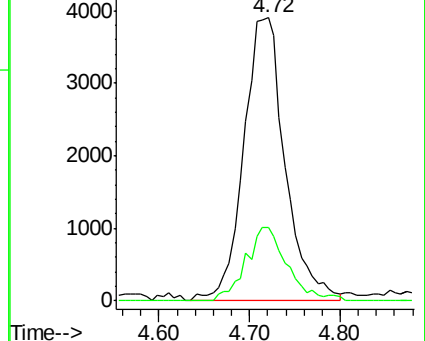
43 100

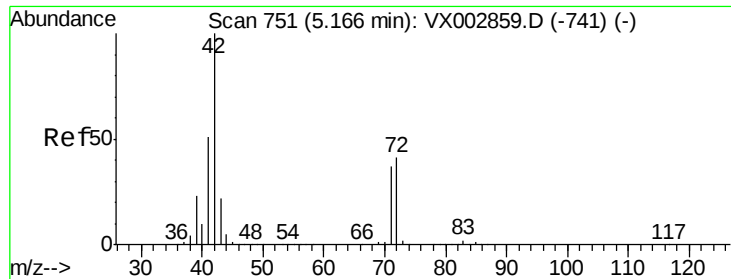
72 26.2 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

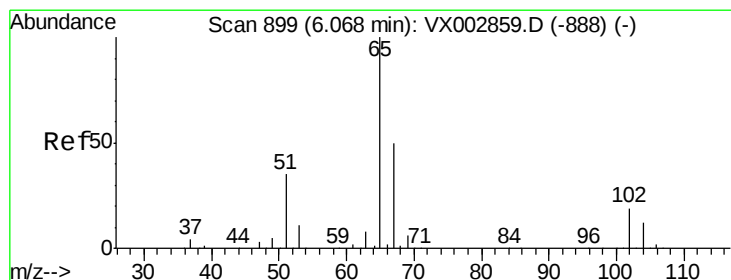
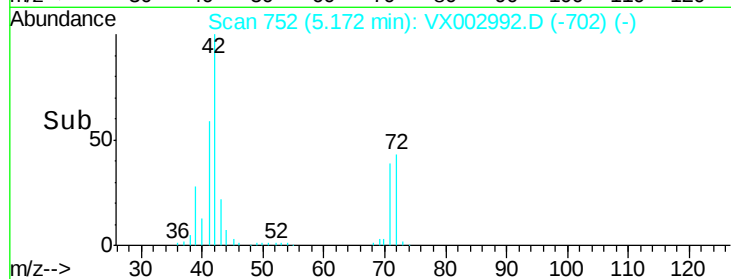
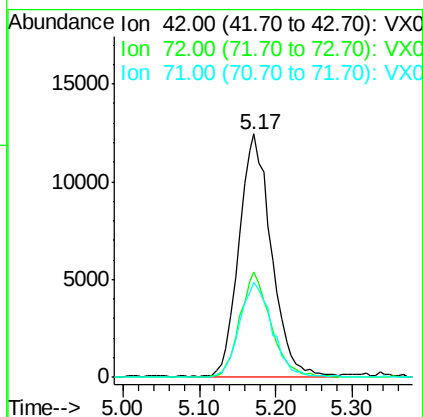
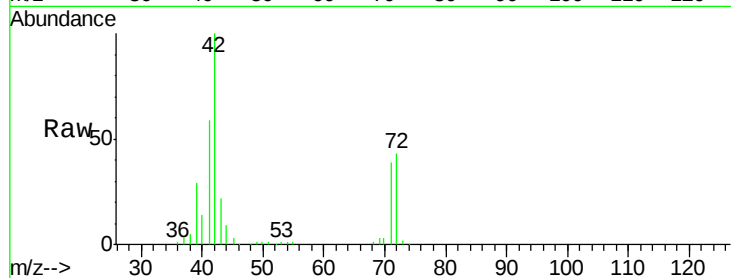




#29
Tetrahydrofuran
Concen: 25.82 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002992.D
Acq: 28 Jun 2018 18:20

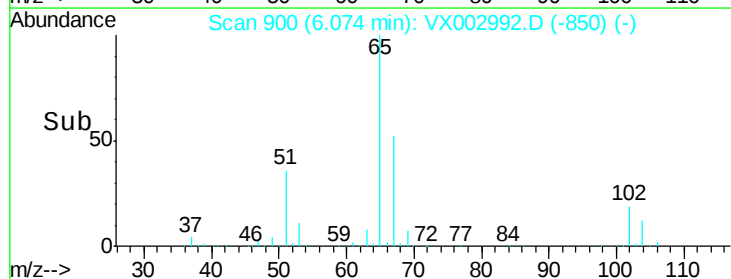
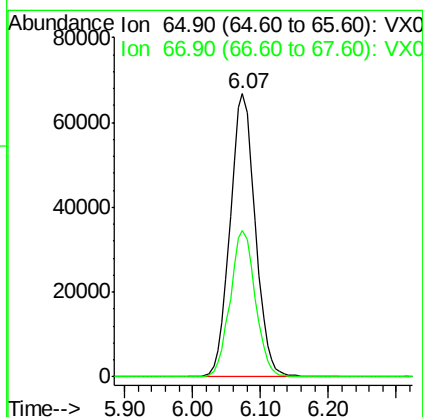
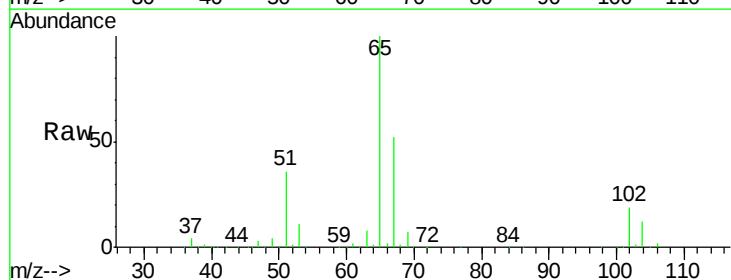
Instrument :
MSVOA_X
ClientSampleId :
N48971

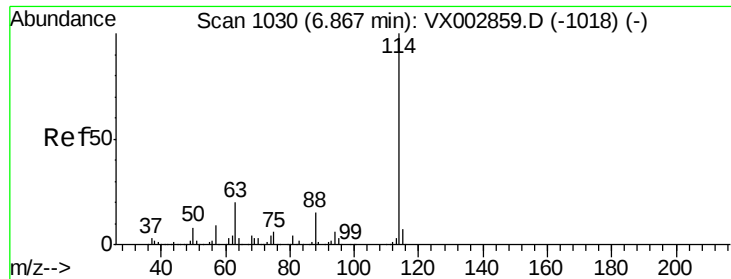
Tot Ion: 42 Resp: 36909
Ion Ratio Lower Upper
42 100
72 41.0 32.0 48.0
71 39.0 30.1 45.1



#33
1,2-Dichloroethane-d4
Concen: 47.32 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX002992.D
Acq: 28 Jun 2018 18:20

Tgt Ion: 65 Resp: 171670
Ion Ratio Lower Upper
65 100
67 51.8 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: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

N48971

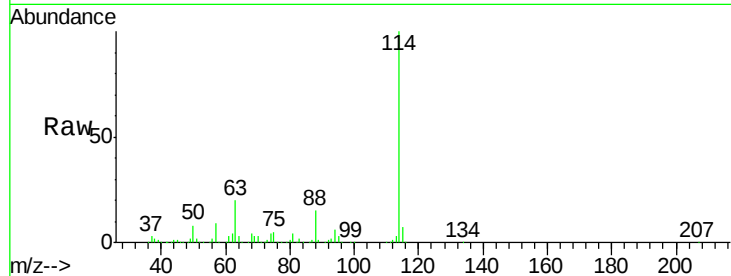
Tot Ion:114 Resp: 358712

Ion Ratio Lower Upper

114 100

63 20.3 0.0 41.4

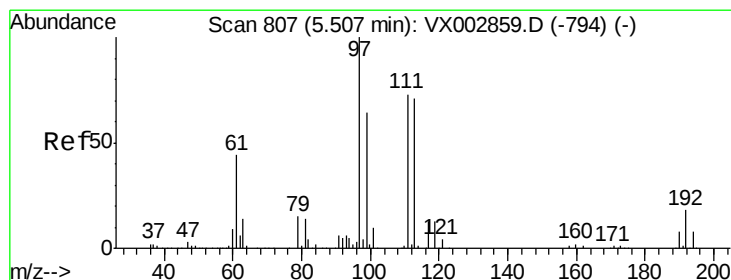
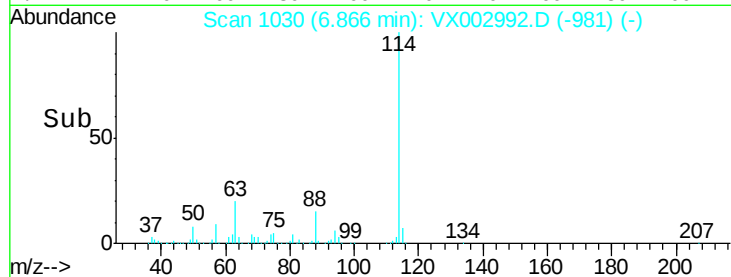
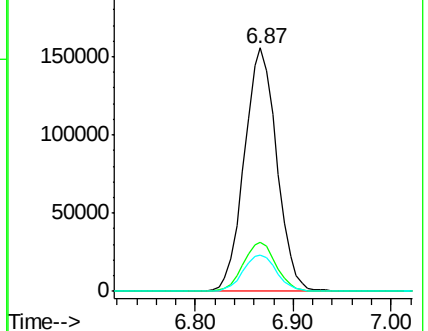
88 15.1 0.0 30.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 49.73 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

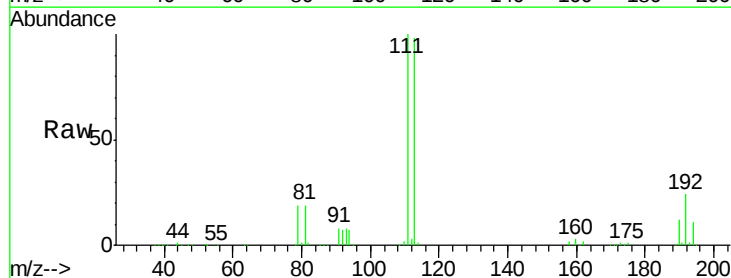
Tgt Ion:113 Resp: 141257

Ion Ratio Lower Upper

113 100

111 101.4 81.4 122.0

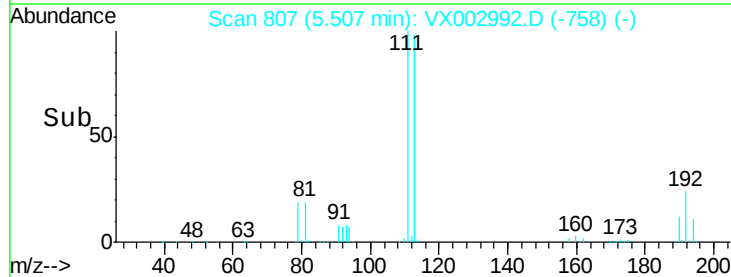
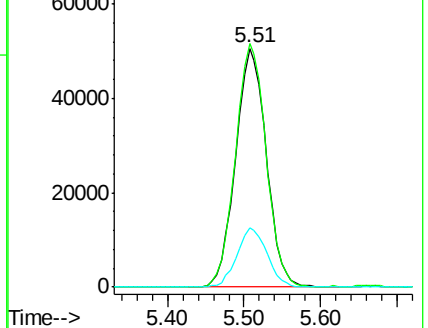
192 24.3 19.1 28.7

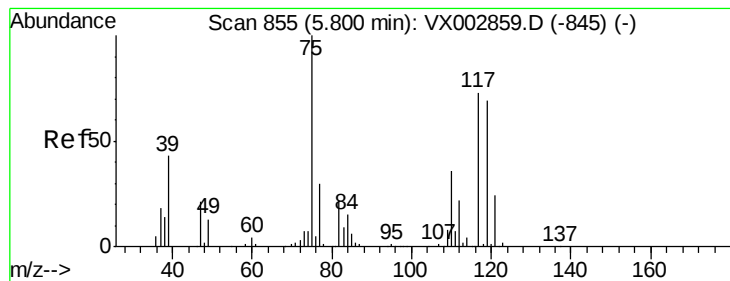


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.45 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampled :

N48971

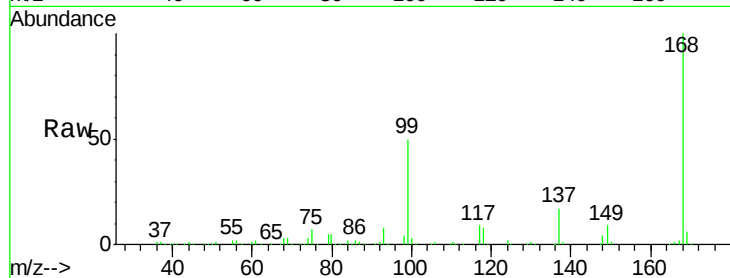
Tot Ion: 75 Resp: 17508

Ion Ratio Lower Upper

75 100

110 11.1 18.1 54.4#

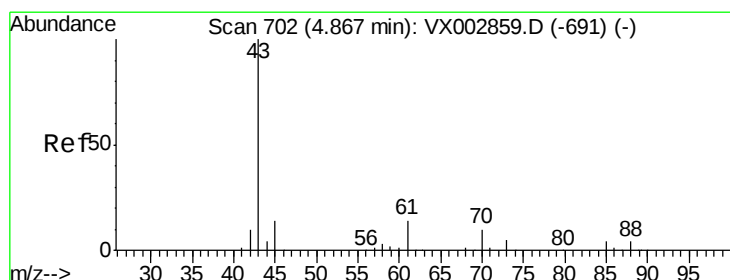
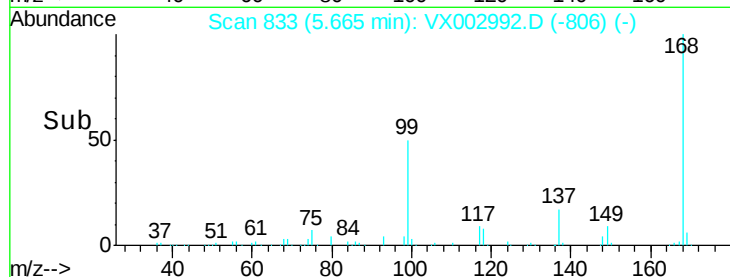
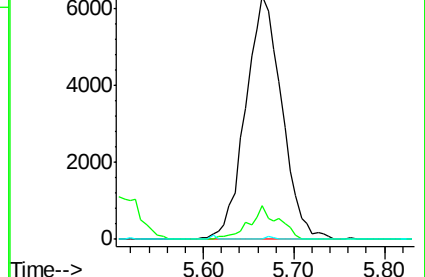
77 0.3 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#37

Ethyl Acetate

Concen: 2.92 ug/l

RT: 4.72 min Scan# 678

Delta R.T. -0.15 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

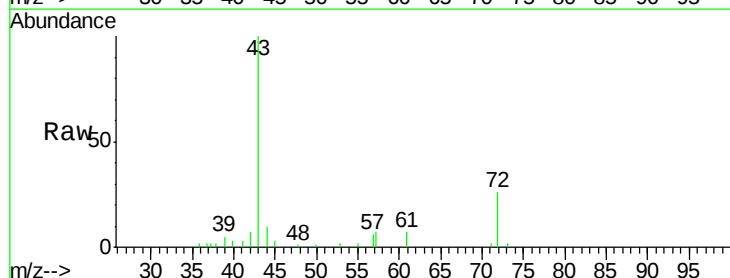
Tgt Ion: 43 Resp: 12383

Ion Ratio Lower Upper

43 100

61 0.0 10.4 15.6#

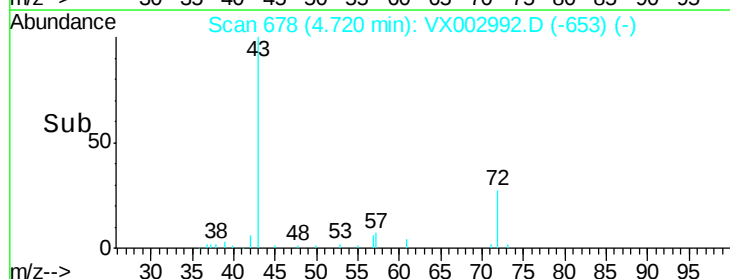
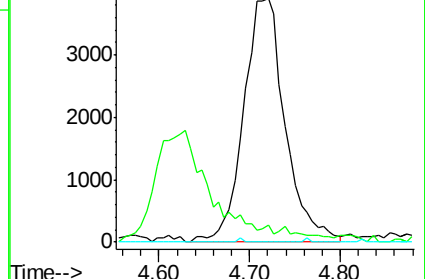
70 0.0 7.6 11.4#

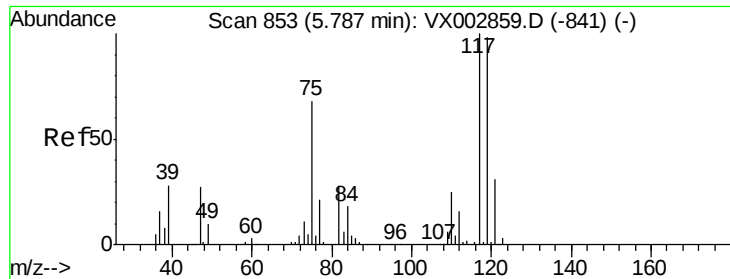


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0





#38

Carbon Tetrachloride

Concen: 5.44 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampled :

N48971

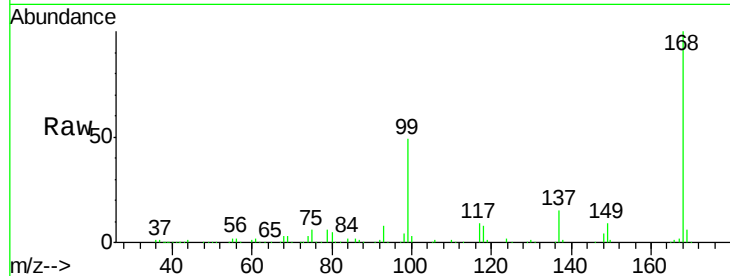
Tot Ion:117 Resp: 23466

Ion Ratio Lower Upper

117 100

119 6.9 77.4 116.0#

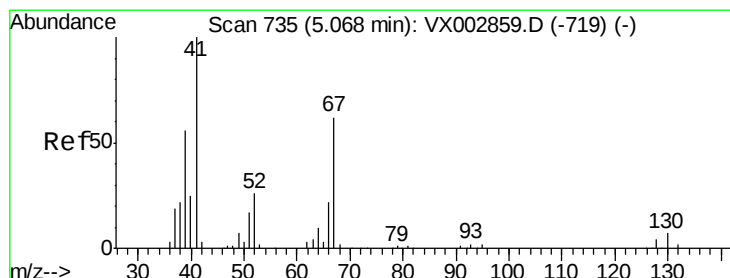
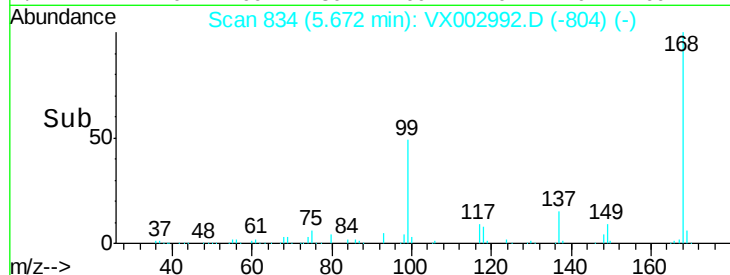
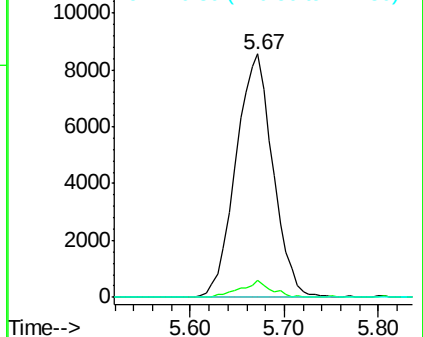
121 0.0 24.4 36.6#



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



#41

Methacrylonitrile

Concen: 8.80 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.10 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Tgt Ion: 41 Resp: 21471

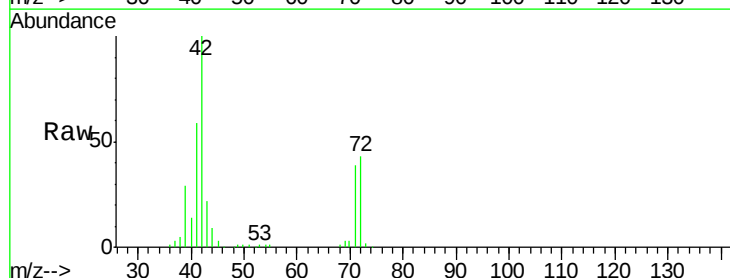
Ion Ratio Lower Upper

41 100

39 51.5 45.8 68.6

67 0.1 51.3 76.9#

52 0.4 23.0 34.6#

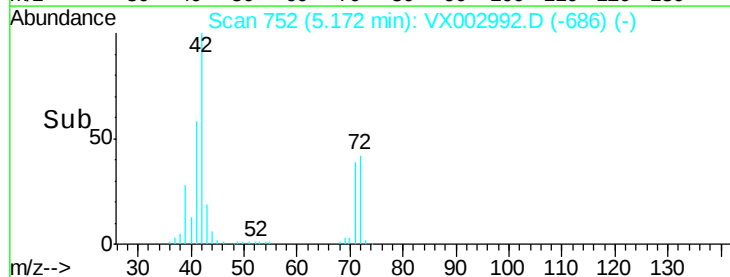
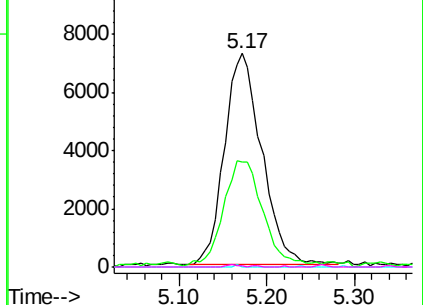


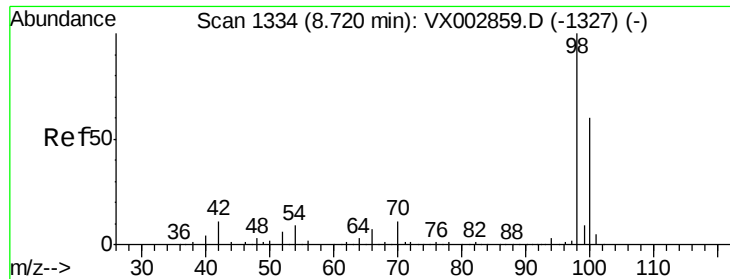
Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0





#50

Toluene-d8

Concen: 49.14 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampled :

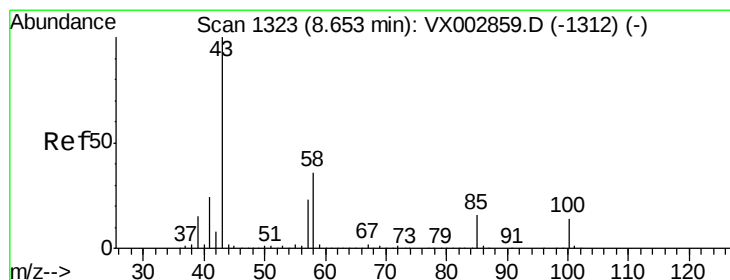
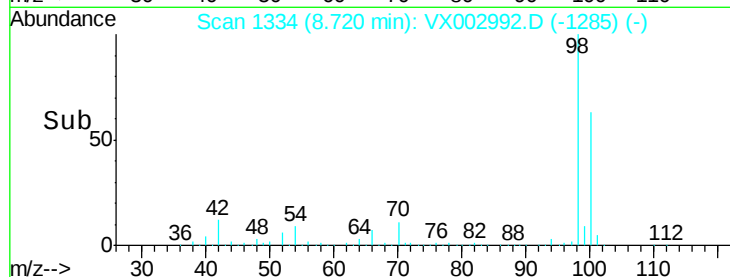
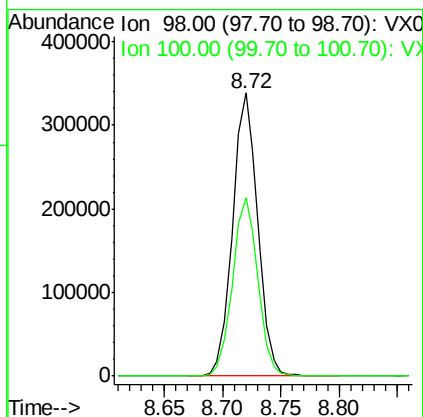
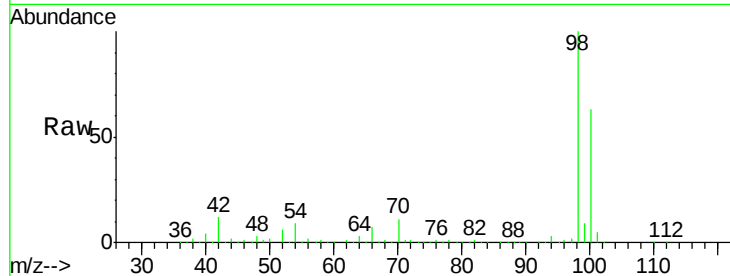
N48971

Tot Ion: 98 Resp: 509709

Ion Ratio Lower Upper

98 100

100 63.5 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 0.49 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX002992.D

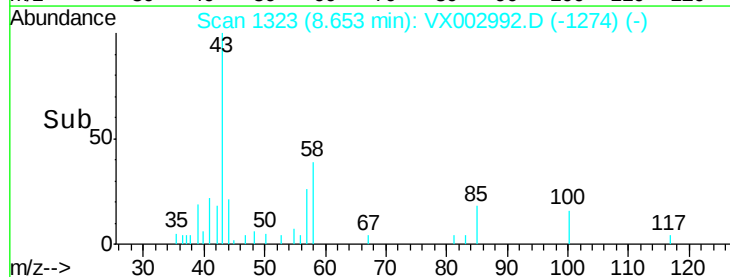
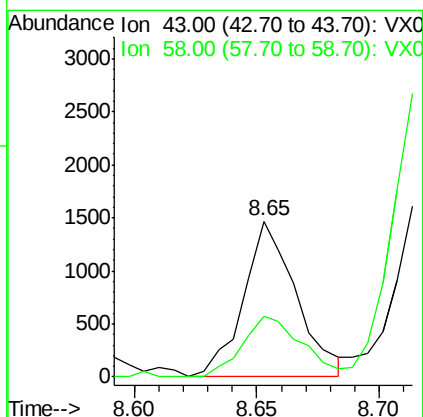
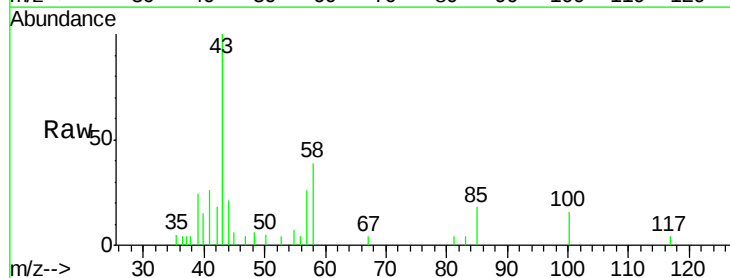
Acq: 28 Jun 2018 18:20

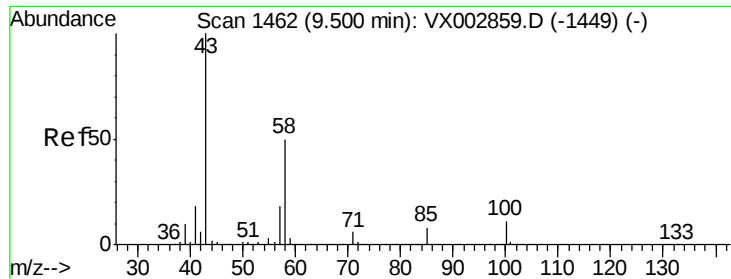
Tgt Ion: 43 Resp: 2197

Ion Ratio Lower Upper

43 100

58 43.7 28.6 42.8#

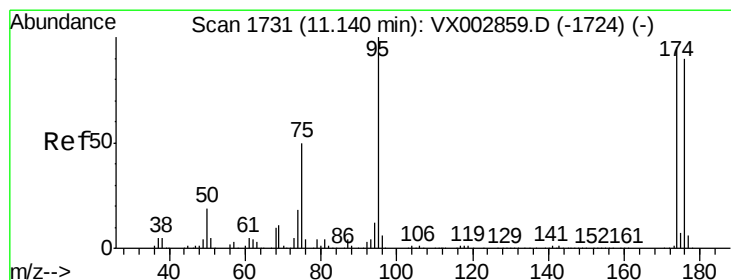
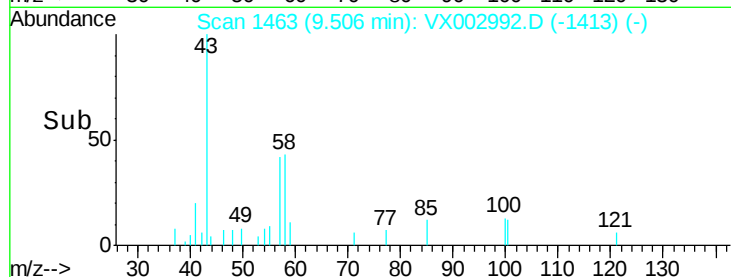
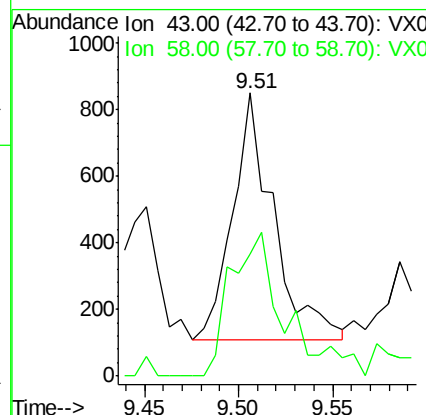
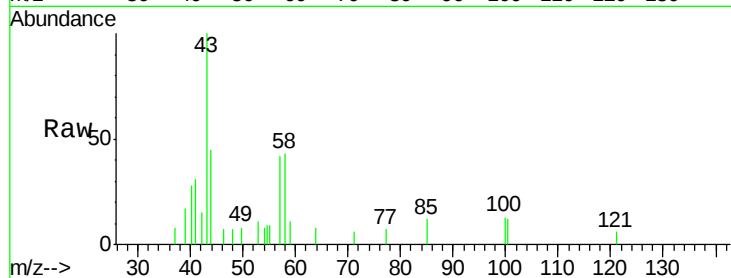




#59
2-Hexanone
Concen: 0.33 ug/l
RT: 9.51 min Scan# 1463
Delta R.T. 0.01 min
Lab File: VX002992.D
Acq: 28 Jun 2018 18:20

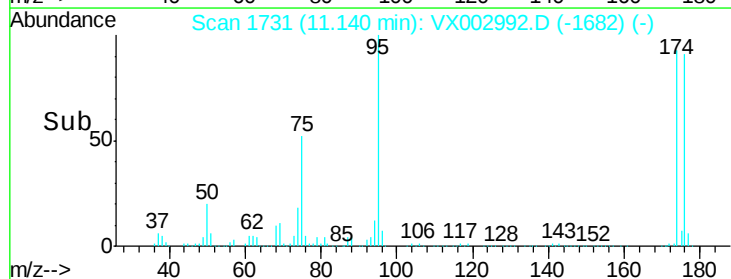
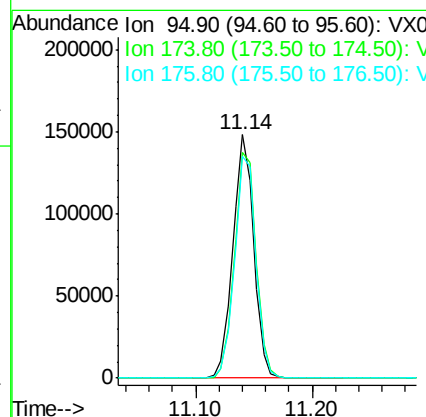
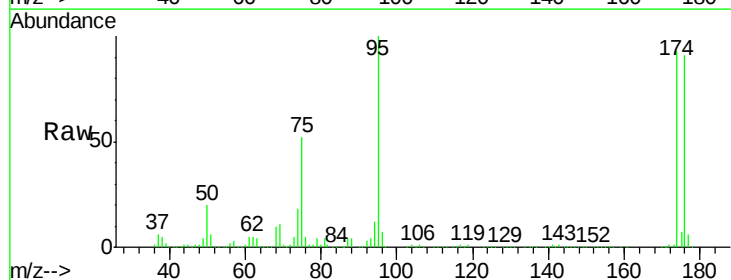
Instrument :
MSVOA_X
ClientSampled :
N48971

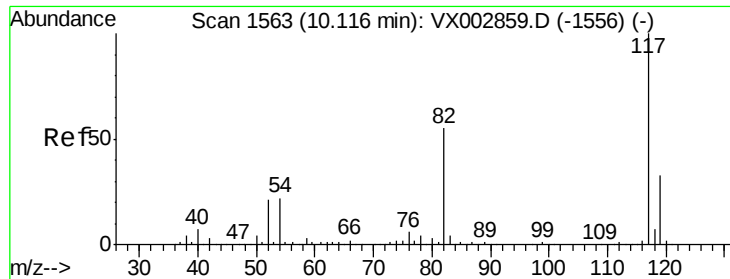
Tot Ion: 43 Resp: 1114
Ion Ratio Lower Upper
43 100
58 70.6 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 46.03 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002992.D
Acq: 28 Jun 2018 18:20

Tgt Ion: 95 Resp: 184135
Ion Ratio Lower Upper
95 100
174 96.7 0.0 187.4
176 93.5 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: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

N48971

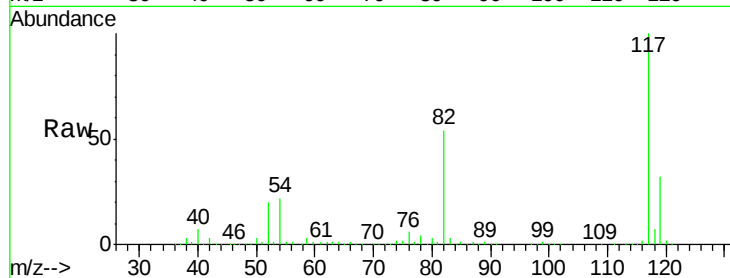
Tot Ion:117 Resp: 338500

Ion Ratio Lower Upper

117 100

82 54.4 45.0 67.4

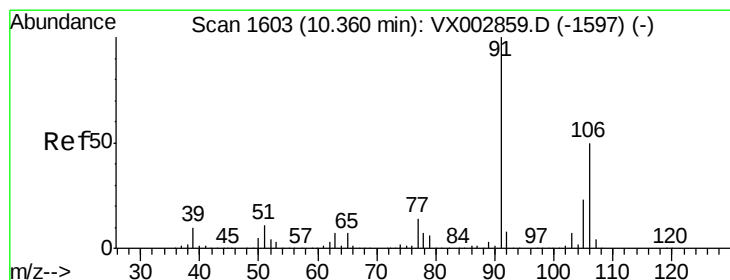
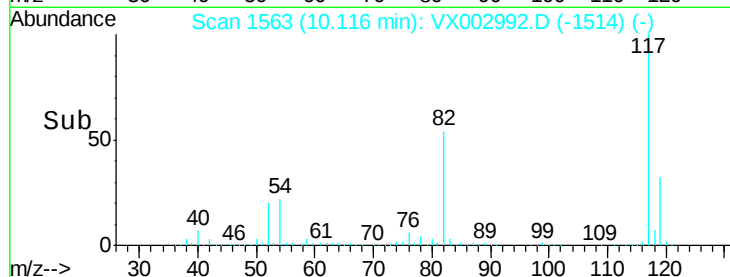
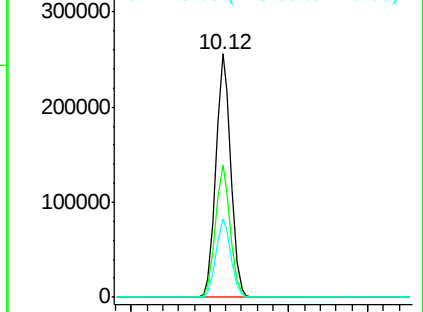
119 32.0 25.8 38.6



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



#68

m/p-Xylenes

Concen: 0.42 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. -0.00 min

Lab File: VX002992.D

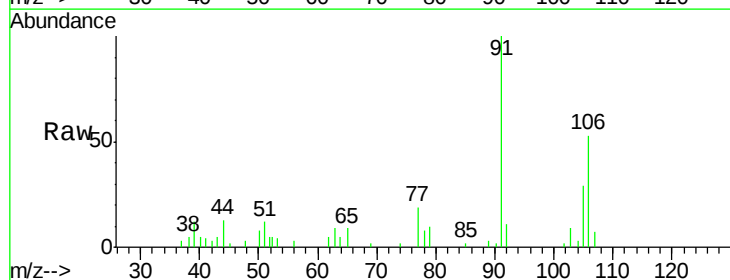
Acq: 28 Jun 2018 18:20

Tgt Ion:106 Resp: 2272

Ion Ratio Lower Upper

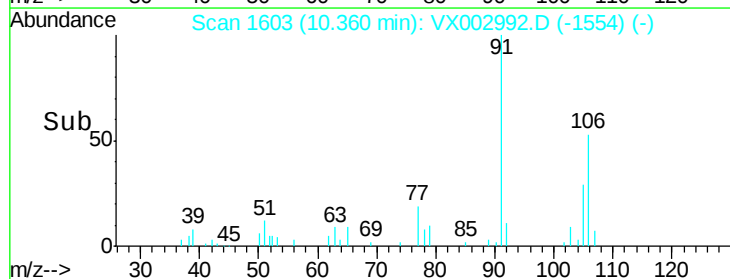
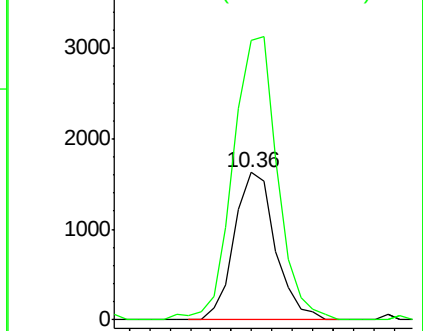
106 100

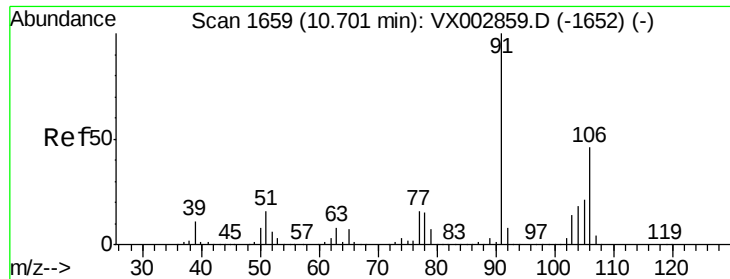
91 207.7 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

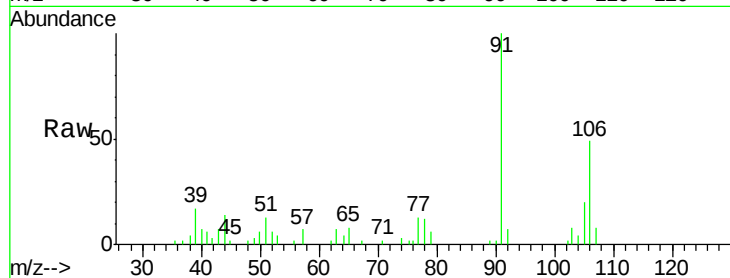




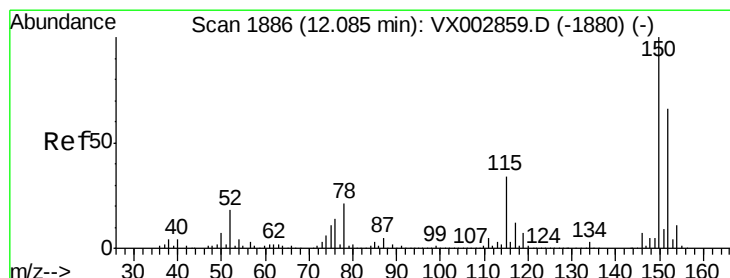
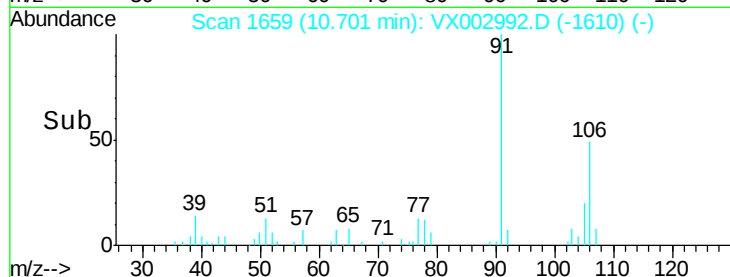
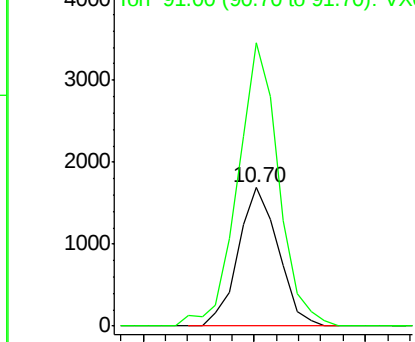
#69
o-Xylene
Concen: 0.40 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX002992.D
Acq: 28 Jun 2018 18:20

Instrument :
MSVOA_X
ClientSampled :
N48971

Tot Ion:106 Resp: 2121
Ion Ratio Lower Upper
106 100
91 208.4 108.2 324.6

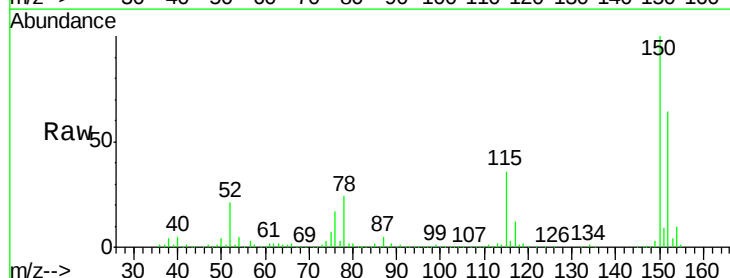


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0

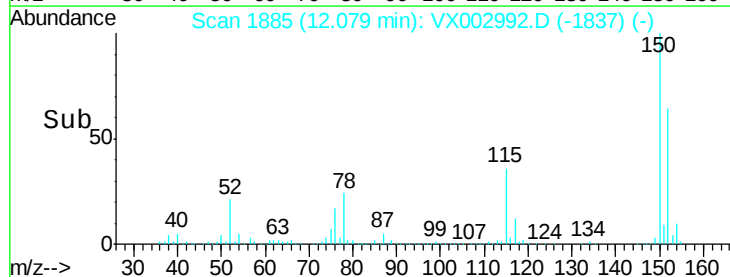
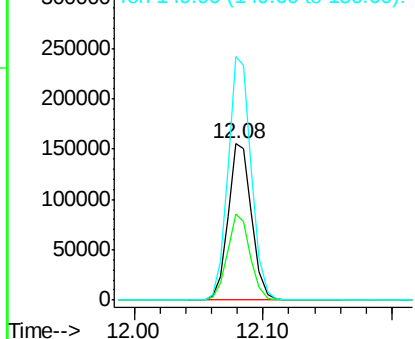


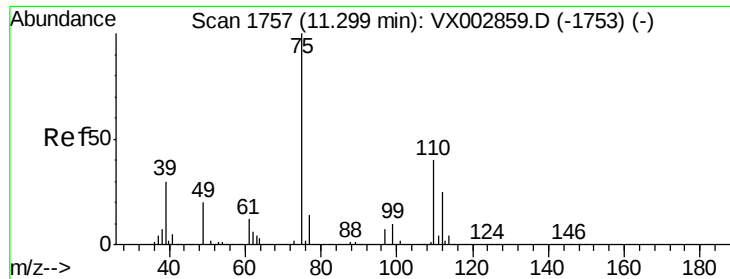
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.01 min
Lab File: VX002992.D
Acq: 28 Jun 2018 18:20

Tgt Ion:152 Resp: 197075
Ion Ratio Lower Upper
152 100
115 54.1 40.1 120.2
150 155.5 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

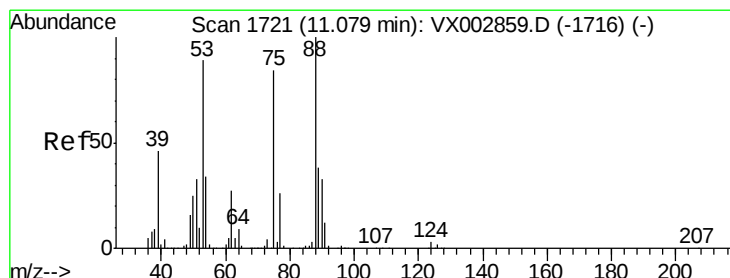
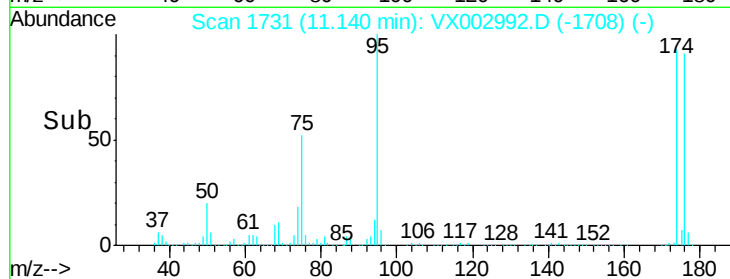
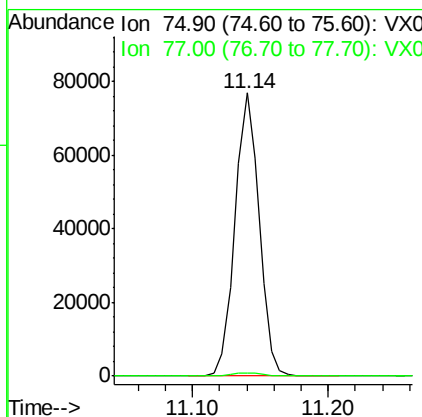
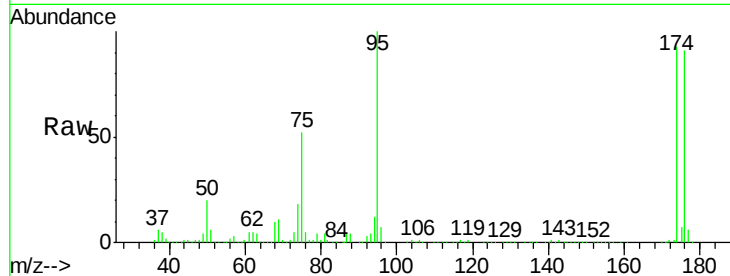




#76
 1,2,3-Trichloropropane
 Concen: 26.63 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.16 min
 Lab File: VX002992.D
 Acq: 28 Jun 2018 18:20

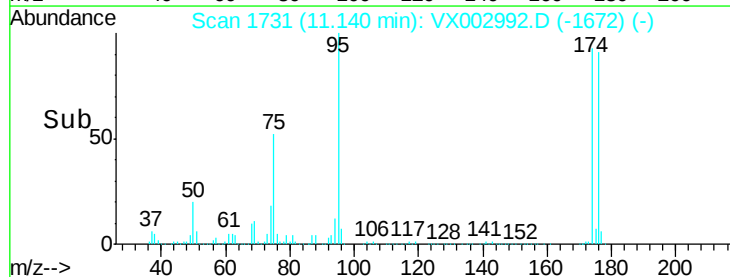
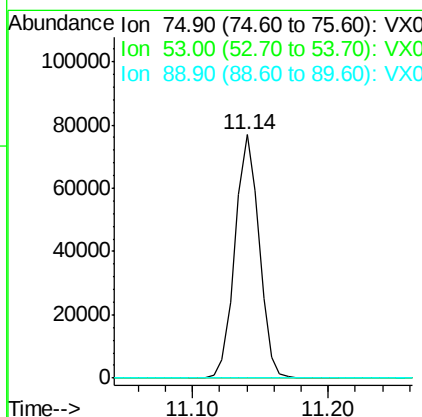
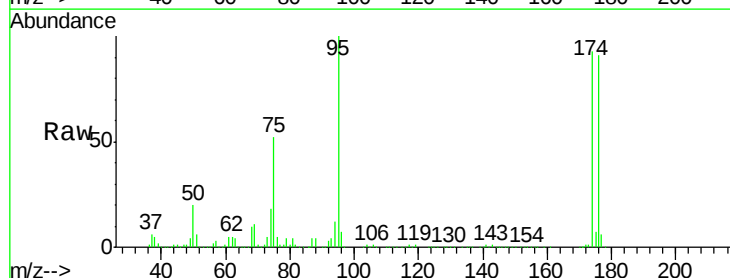
Instrument :
 MSVOA_X
 ClientSampled :
 N48971

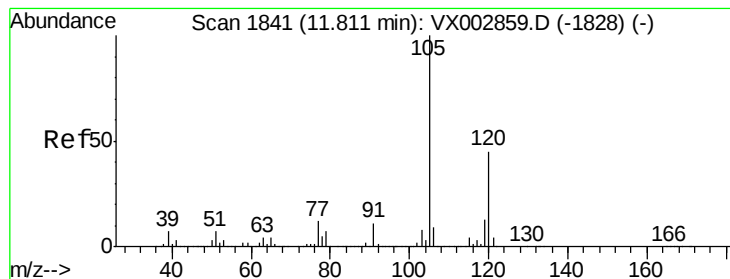
Tot Ion: 75 Resp: 95076
 Ion Ratio Lower Upper
 75 100
 77 1.4 22.8 68.3#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.44 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002992.D
 Acq: 28 Jun 2018 18:20

Tgt Ion: 75 Resp: 95076
 Ion Ratio Lower Upper
 75 100
 53 0.2 86.8 130.2#
 89 0.0 38.2 57.2#





#84

1,2,4-Trimethylbenzene

Concen: 0.47 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.00 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

Instrument :

MSVOA_X

ClientSampleId :

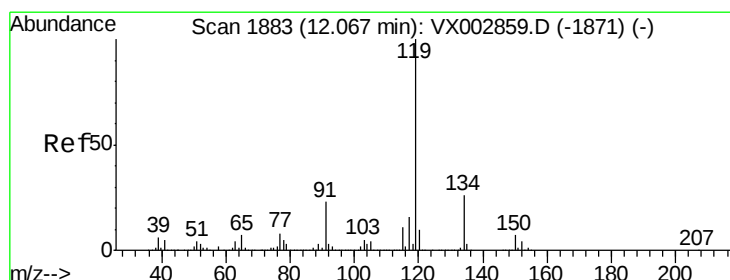
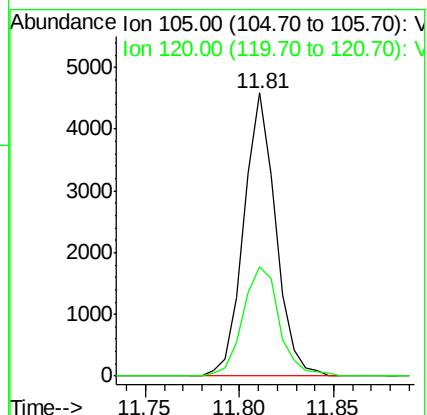
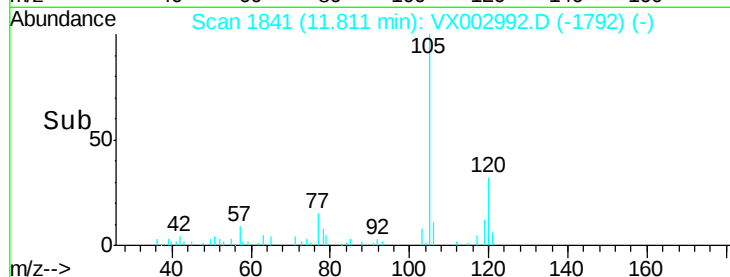
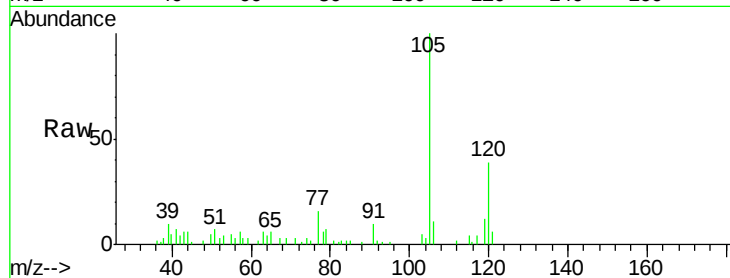
N48971

Tot Ion:105 Resp: 5391

Ion Ratio Lower Upper

105 100

120 44.1 22.3 66.8



#86

p-Isopropyltoluene

Concen: 1.02 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VX002992.D

Acq: 28 Jun 2018 18:20

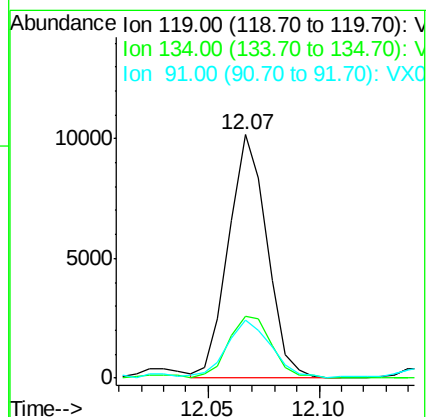
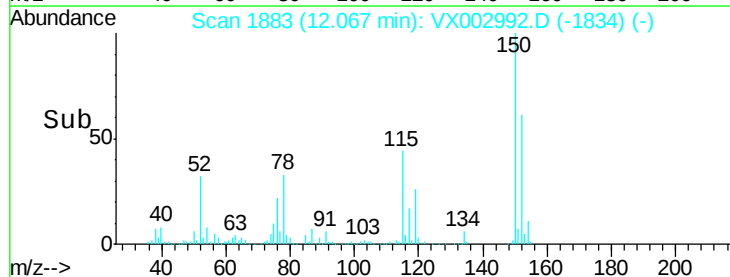
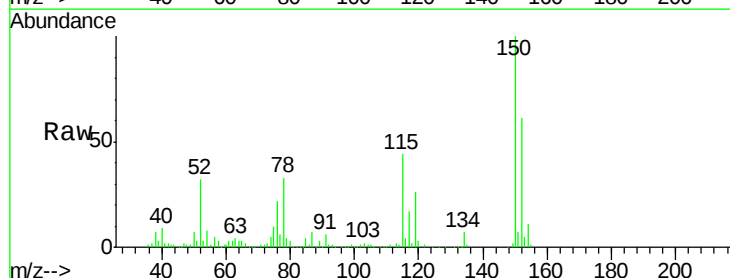
Tgt Ion:119 Resp: 12265

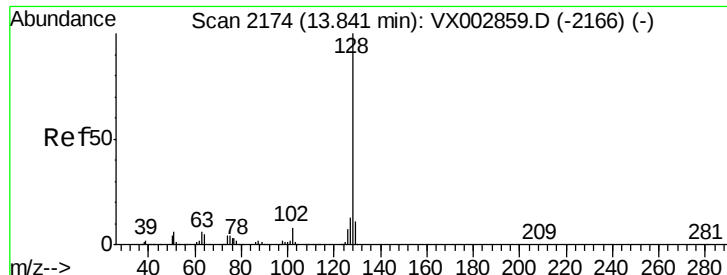
Ion Ratio Lower Upper

119 100

134 28.7 13.4 40.1

91 27.7 11.9 35.7





#95
Naphthalene
Concen: 0.82 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX002992.D
Acq: 28 Jun 2018 18:20

Instrument :
MSVOA_X
ClientSampleId :
N48971

Tot Ion	Ratio	Lower	Upper
128	100		
127	15.6	10.4	15.6#
129	17.5	8.6	13.0#

