

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062518\
 Data File : VX002884.D
 Acq On : 26 Jun 2018 02:33
 Operator : JC/MD
 Sample : J3705-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 27 05:30:03 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	249606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	346893	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	324575	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	189981	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	167683	48.60	ug/l	0.00
Spiked Amount			Recovery	=	97.20%	
35) Dibromofluoromethane	5.51	113	135501	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	8.72	98	490729	48.92	ug/l	0.00
Spiked Amount			Recovery	=	97.84%	
62) 4-Bromofluorobenzene	11.14	95	175967	45.48	ug/l	0.00
Spiked Amount			Recovery	=	90.96%	

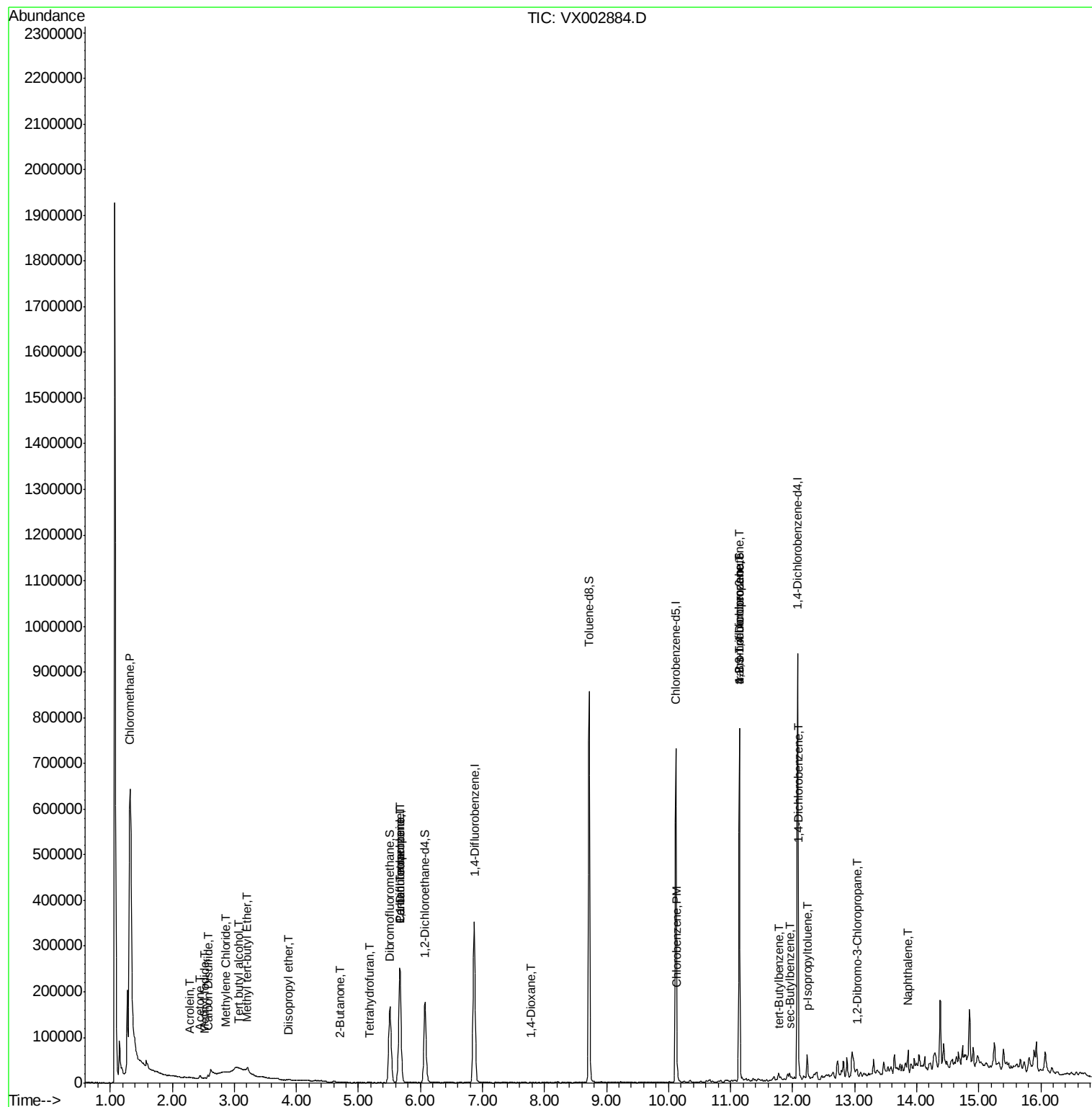
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	42	Below Cal	#	43
3) Chloromethane	1.32	50	28382	11.34	ug/l	# 45
5) Bromomethane	1.65	94	1372	Below Cal	#	76
6) Chloroethane	1.92	64	1300	Below Cal	#	68
10) Methyl Iodide	2.52	142	1833	6.80	ug/l	# 96
11) Tert butyl alcohol	3.07	59	2562	3.73	ug/l	# 94
13) Acrolein	2.29	56	55	4.37	ug/l	# 14
16) Acetone	2.45	43	5903	4.13	ug/l	99
17) Carbon Disulfide	2.57	76	11213	1.71	ug/l	# 94
19) Methyl tert-butyl Ether	3.21	73	9804	1.11	ug/l	99
20) Methylene Chloride	2.86	84	605	0.22	ug/l	# 69
22) Diisopropyl ether	3.87	45	1996	0.22	ug/l	# 74
25) 2-Butanone	4.71	43	880	0.42	ug/l	# 52
29) Tetrahydrofuran	5.17	42	482	0.35	ug/l	# 67
36) 1,1-Dichloropropene	5.67	75	16515	4.34	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	22526	5.40	ug/l	# 17
49) 1,4-Dioxane	7.78	88	171	2.48	ug/l	# 41
65) Chlorobenzene	10.14	112	8770	1.06	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	92808	26.97	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	92808	76.35	ug/l	# 7
83) tert-Butylbenzene	11.77	119	5397	0.51	ug/l	93
85) sec-Butylbenzene	11.95	105	4694	0.36	ug/l	# 56
86) p-Isopropyltoluene	12.24	119	22611	1.95	ug/l	98
88) 1,4-Dichlorobenzene	12.10	146	6436	0.94	ug/l	# 63
92) 1,2-Dibromo-3-Chloropropan	13.03	75	178	0.20	ug/l	# 1
95) Naphthalene	13.86	128	3388	0.26	ug/l	# 17

(#) = 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# 833

Delta R.T. 0.00 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

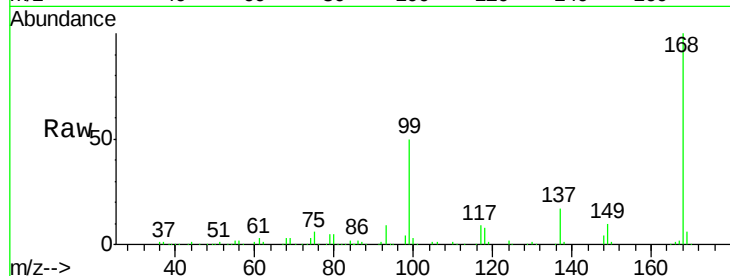
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 249606

Ion Ratio Lower Upper

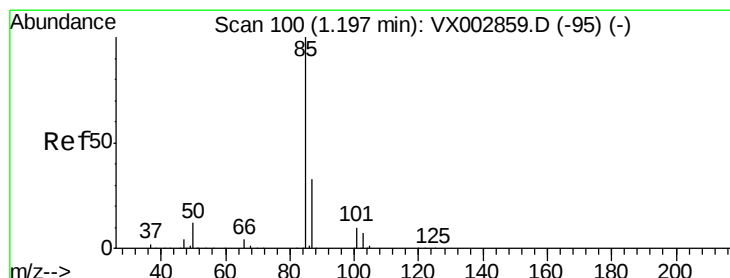
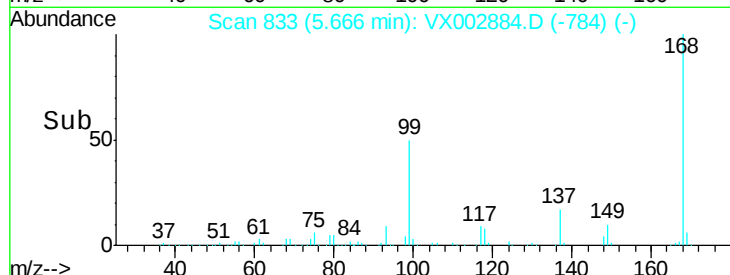
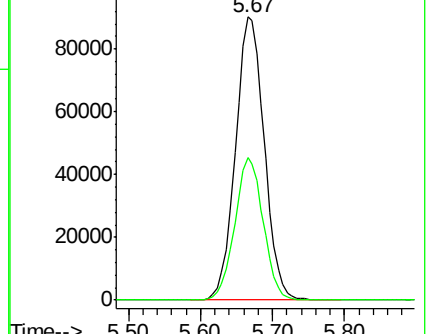
168 100

99 50.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX002884.D

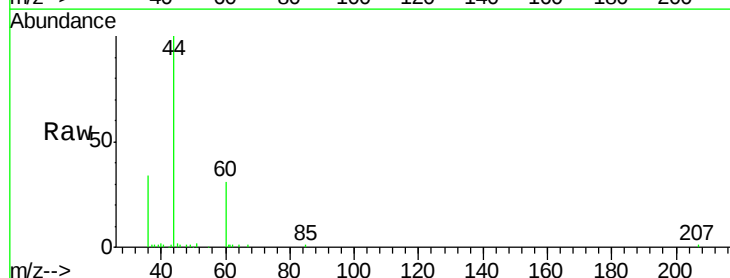
Acq: 26 Jun 2018 02:33

Tgt Ion: 85 Resp: 42

Ion Ratio Lower Upper

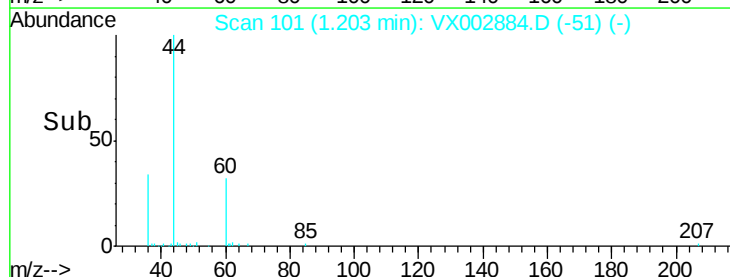
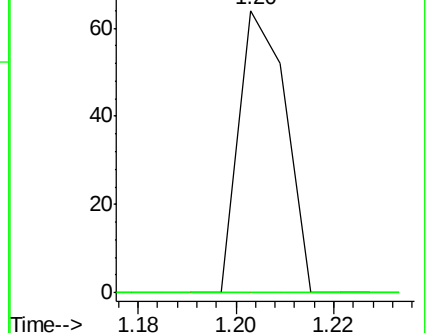
85 100

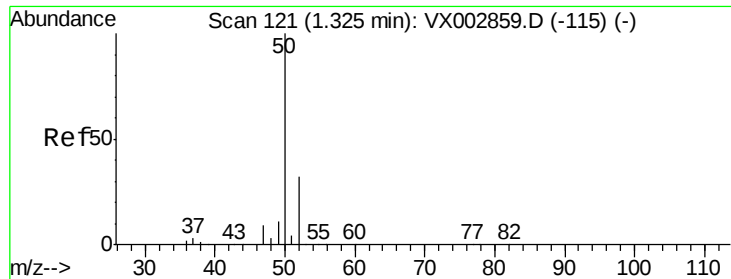
87 0.0 16.0 47.9#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 11.34 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

Instrument :

MSVOA_X

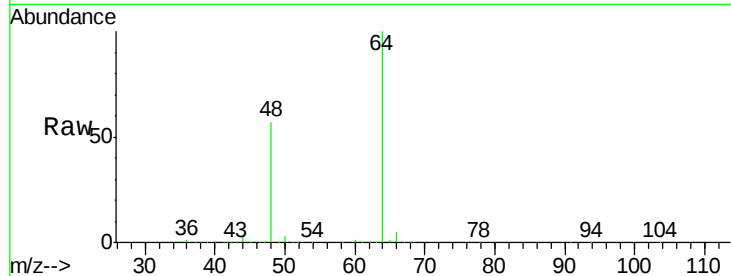
ClientSampleId :

Tot Ion: 50 Resp: 28382

Ion Ratio Lower Upper

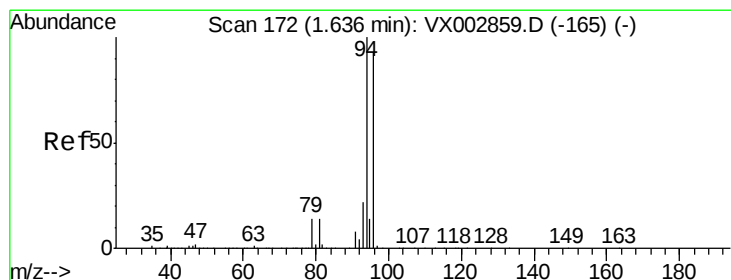
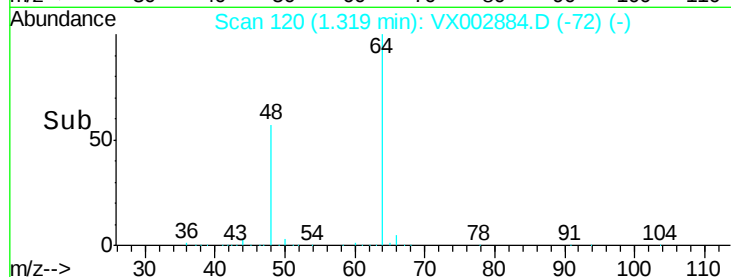
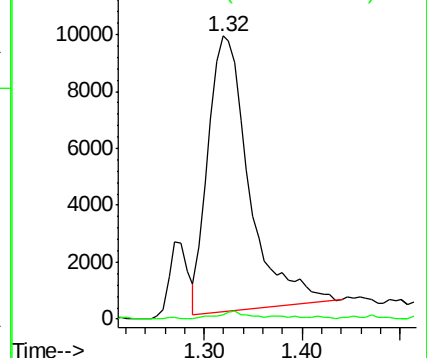
50 100

52 1.5 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002884.D

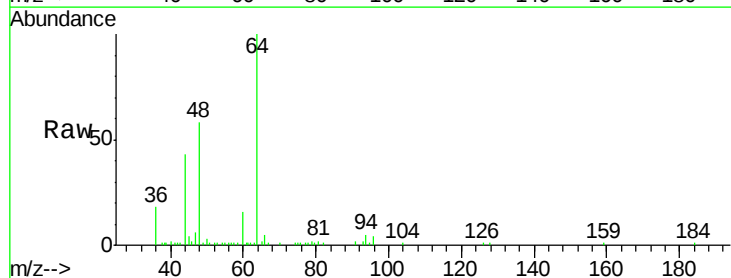
Acq: 26 Jun 2018 02:33

Tgt Ion: 94 Resp: 1372

Ion Ratio Lower Upper

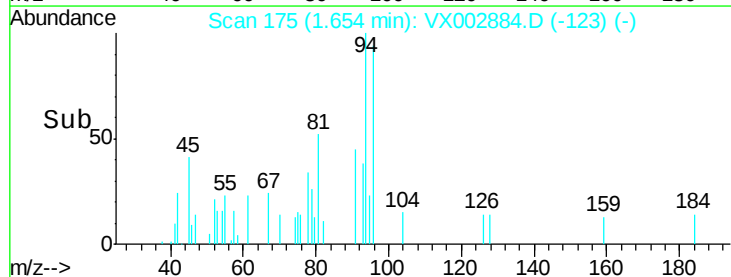
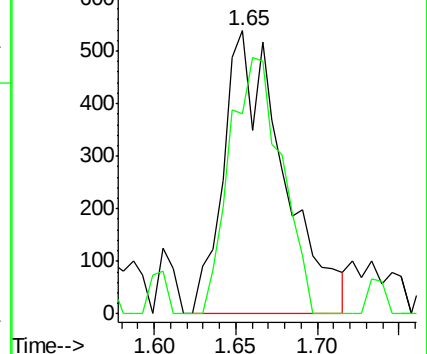
94 100

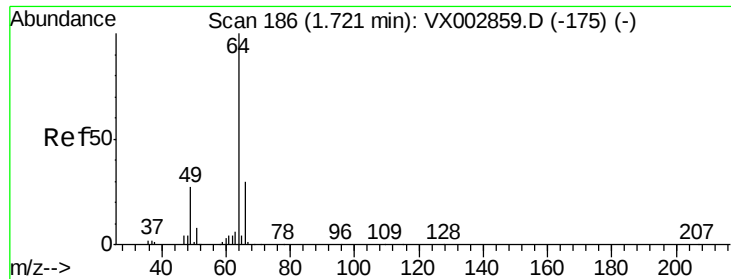
96 70.6 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: Below Cal

RT: 1.92 min Scan# 219

Delta R.T. 0.20 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

Instrument :

MSVOA_X

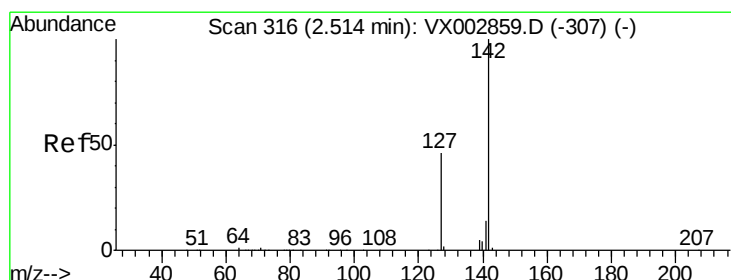
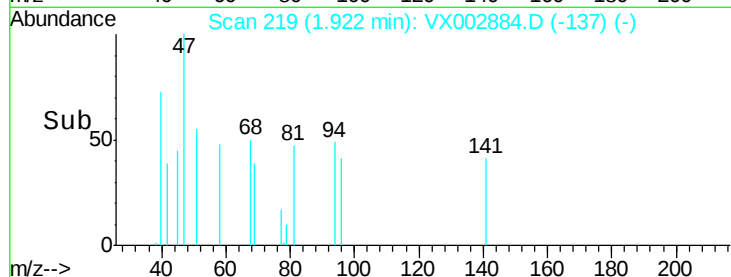
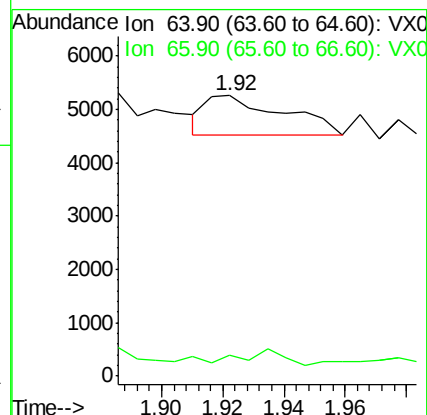
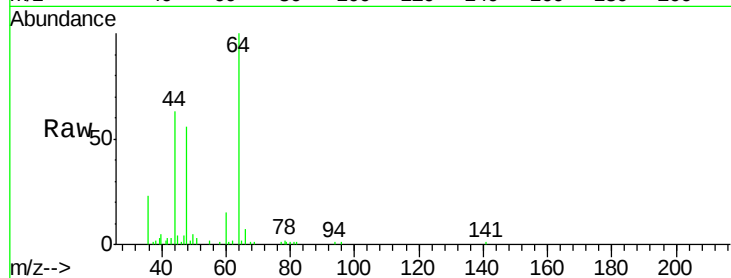
ClientSampled :

Tot Ion: 64 Resp: 1300

Ion Ratio Lower Upper

64 100

66 13.9 25.5 38.3#



#10

Methyl Iodide

Concen: 6.80 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

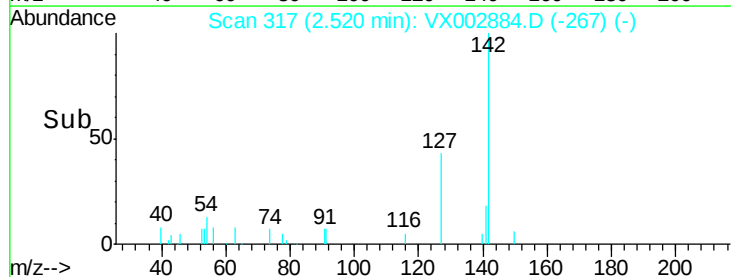
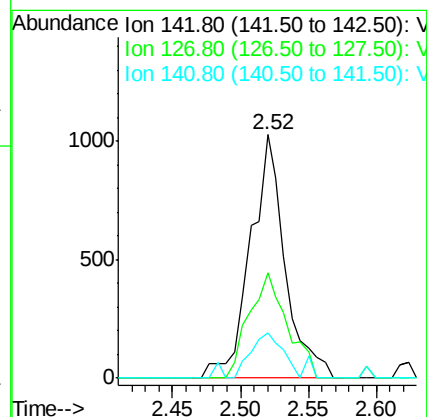
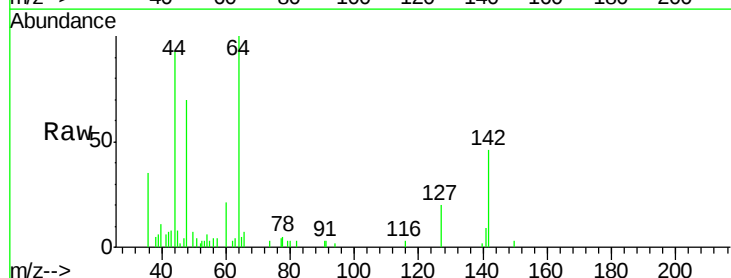
Tgt Ion:142 Resp: 1833

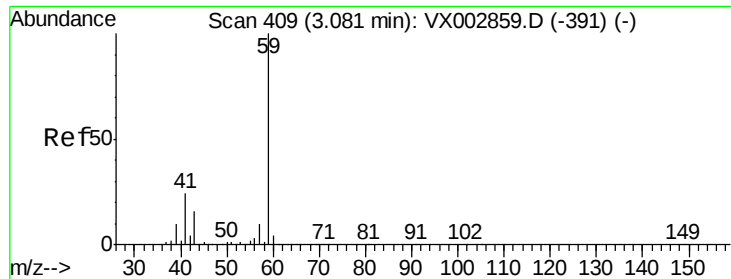
Ion Ratio Lower Upper

142 100

127 47.5 36.6 55.0

141 17.2 11.3 16.9#



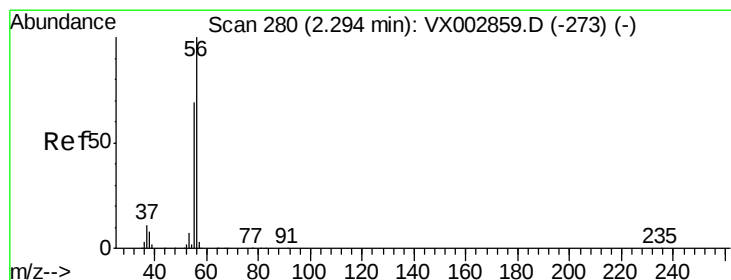
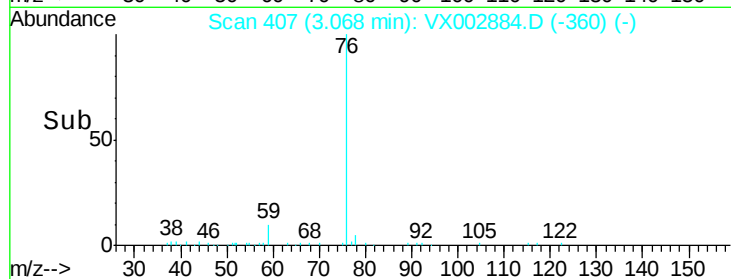
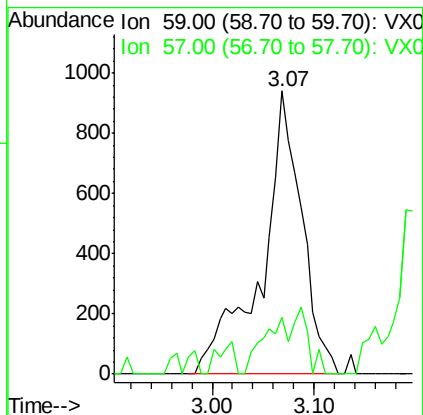
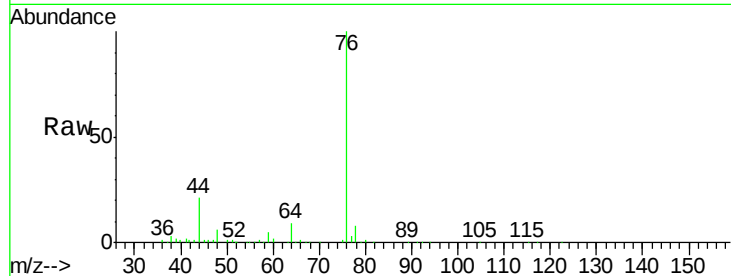


#11

Tert butyl alcohol
Concen: 3.73 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

Instrument :
MSVOA_X
ClientSampled :

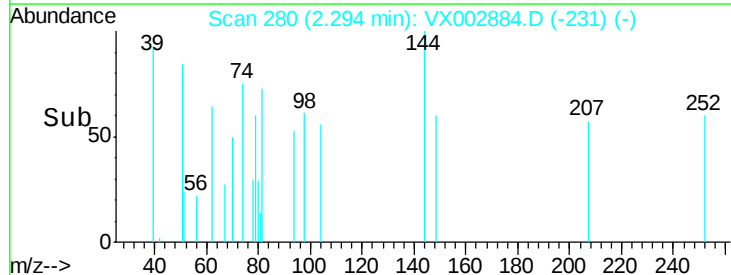
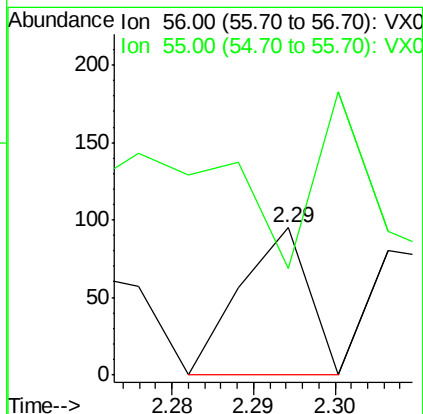
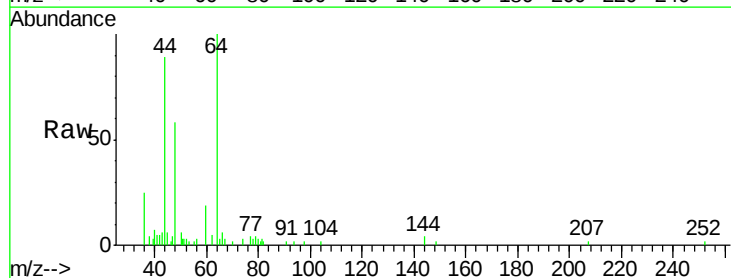
Tot Ion: 59 Resp: 2562
Ion Ratio Lower Upper
59 100
57 12.6 8.2 12.2#

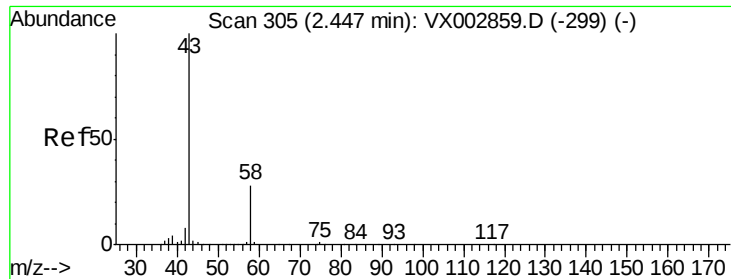


#13

Acrolein
Concen: 4.37 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

Tgt Ion: 56 Resp: 55
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#





#16

Acetone

Concen: 4.13 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

Instrument :

MSVOA_X

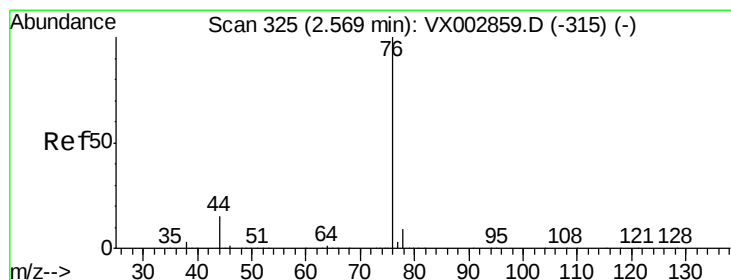
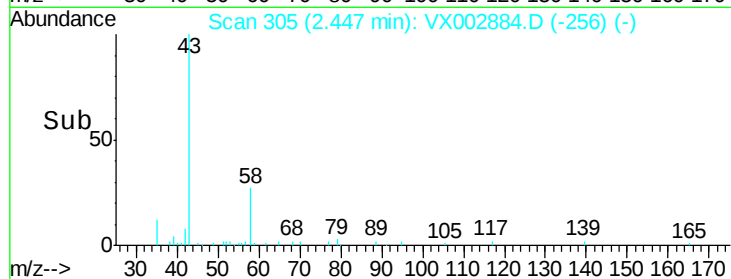
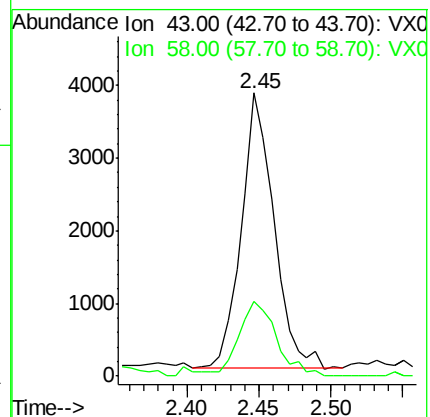
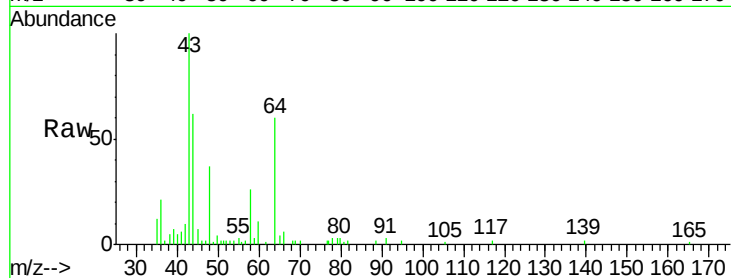
ClientSampleId :

Tot Ion: 43 Resp: 5903

Ion Ratio Lower Upper

43 100

58 27.1 22.1 33.1



#17

Carbon Disulfide

Concen: 1.71 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002884.D

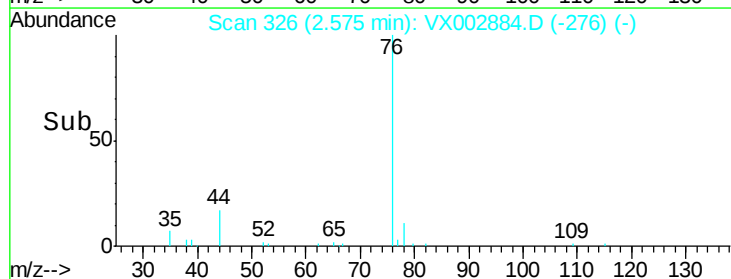
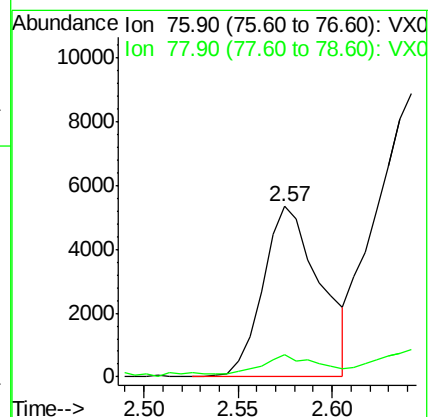
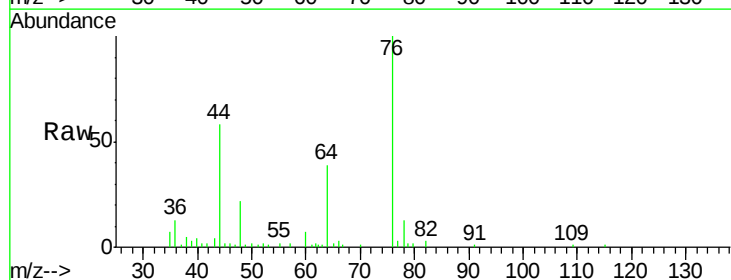
Acq: 26 Jun 2018 02:33

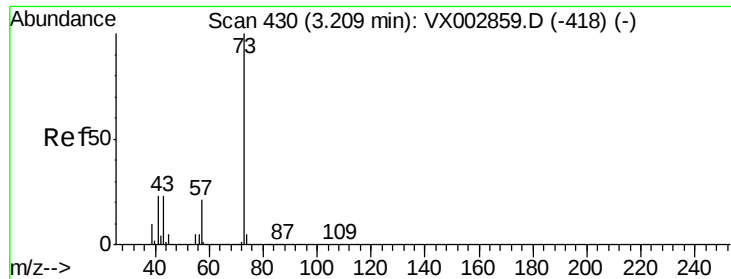
Tgt Ion: 76 Resp: 11213

Ion Ratio Lower Upper

76 100

78 10.9 6.9 10.3#

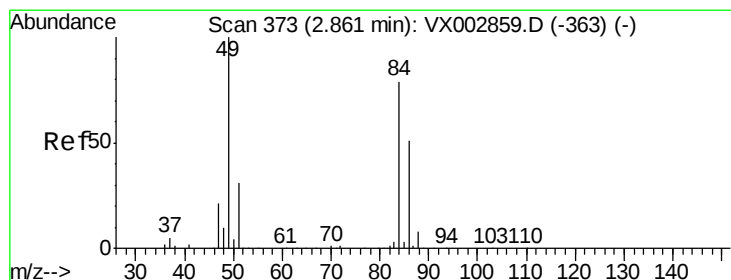
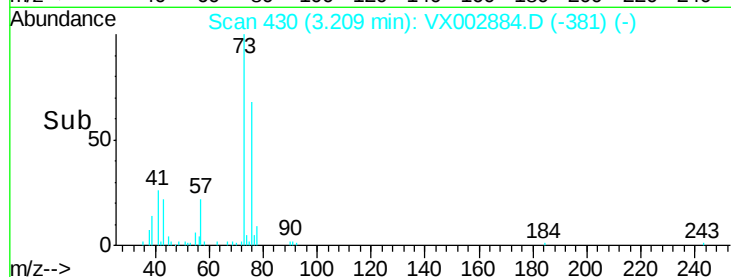
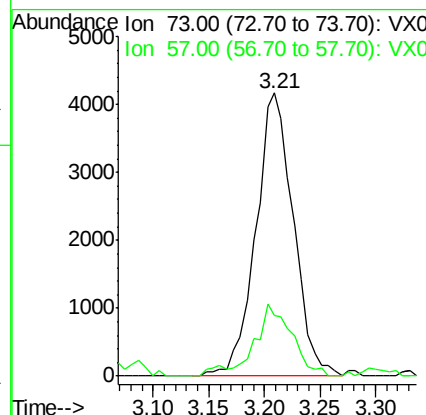
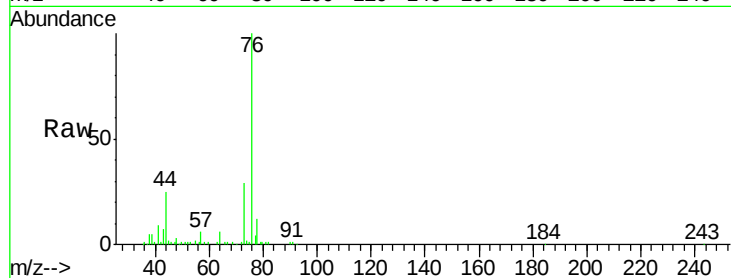




#19
Methyl tert-butyl Ether
Concen: 1.11 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

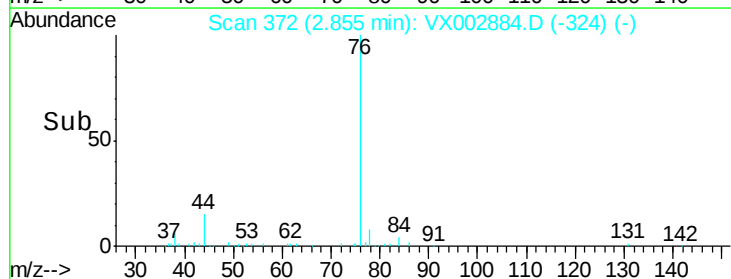
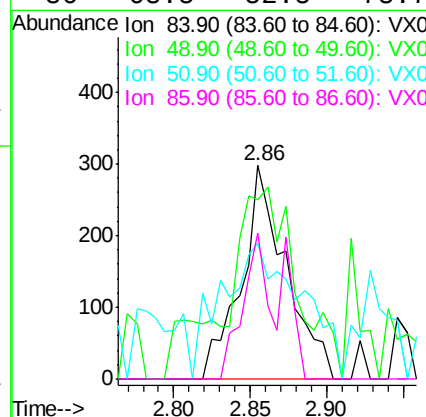
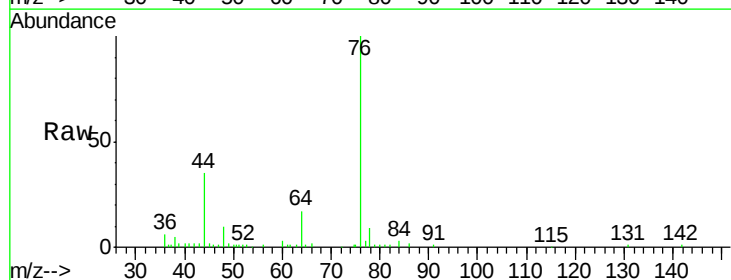
Instrument :
MSVOA_X
ClientSampleId :

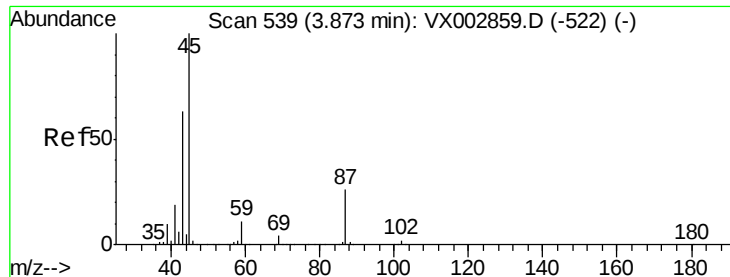
Tot Ion: 73 Resp: 9804
Ion Ratio Lower Upper
73 100
57 21.7 17.7 26.5



#20
Methylene Chloride
Concen: 0.22 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

Tgt Ion: 84 Resp: 605
Ion Ratio Lower Upper
84 100
49 83.9 107.8 161.6#
51 63.4 32.8 49.2#
86 68.5 52.5 78.7

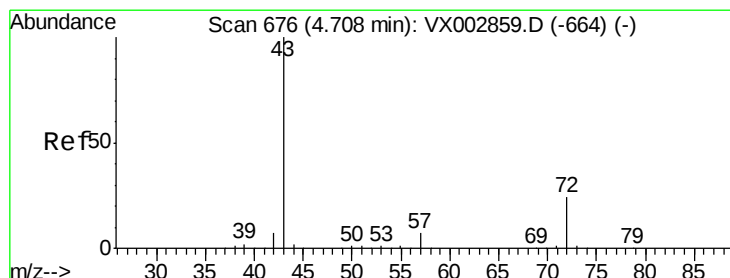
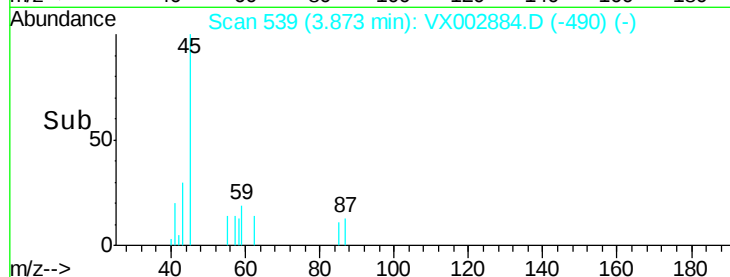
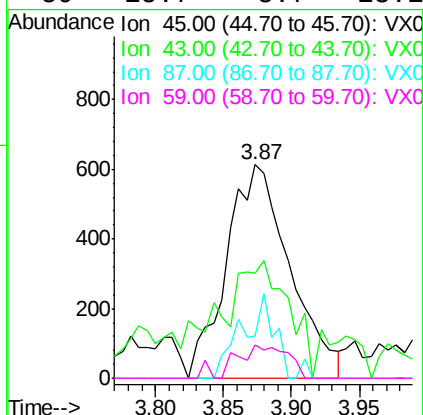
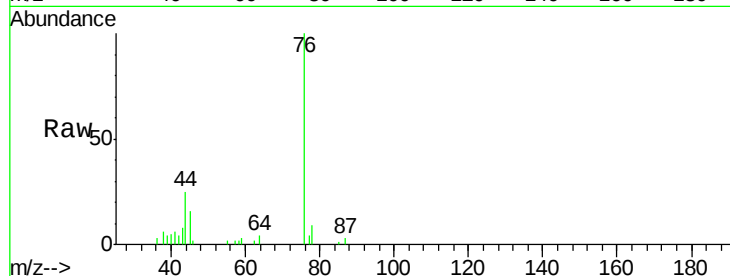




#22
Diisopropyl ether
Concen: 0.22 ug/l
RT: 3.87 min Scan# 539
Delta R.T. 0.00 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

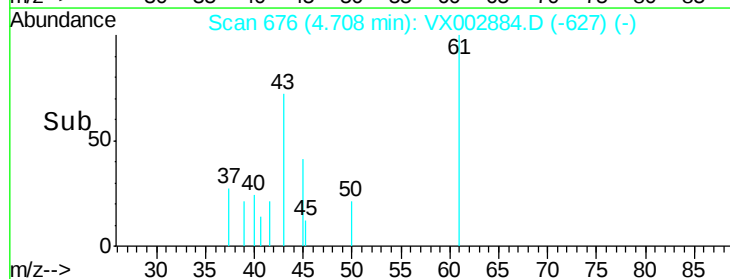
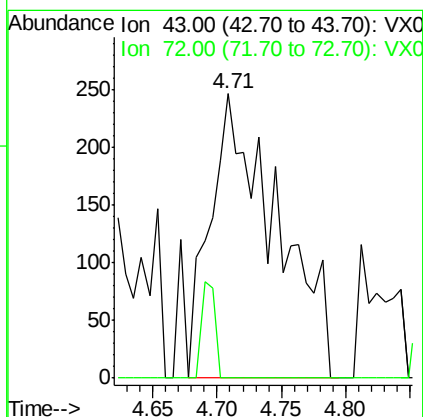
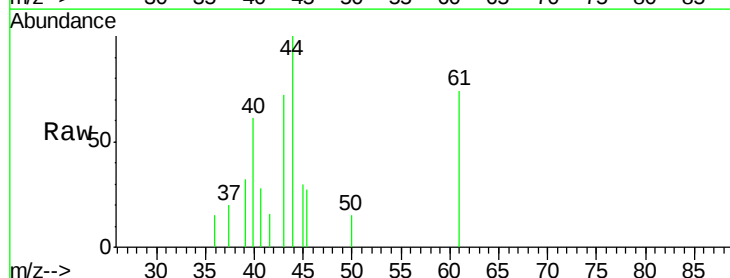
Instrument :
MSVOA_X
ClientSampled :

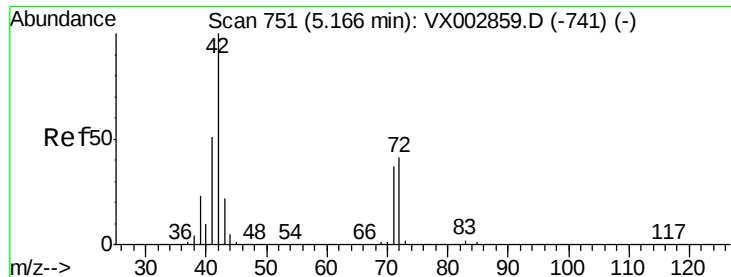
Tot Ion:	45	Resp:	1996
Ion	Ratio	Lower	Upper
45	100		
43	32.3	46.8	70.2#
87	19.6	20.2	30.4#
59	15.7	8.7	13.1#



#25
2-Butanone
Concen: 0.42 ug/l
RT: 4.71 min Scan# 676
Delta R.T. 0.00 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

Tgt Ion:	43	Resp:	880
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.5	27.7#

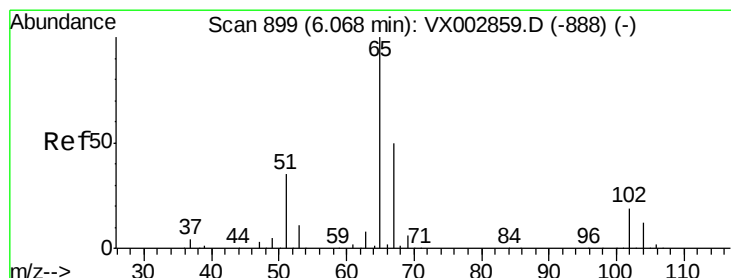
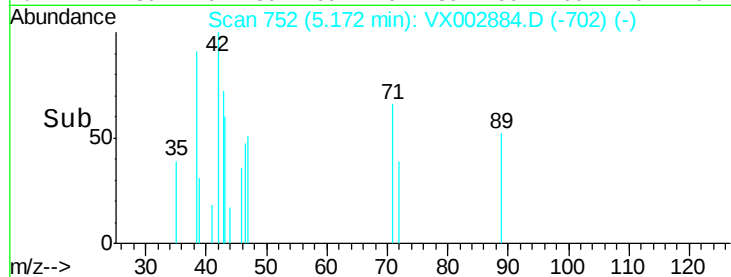
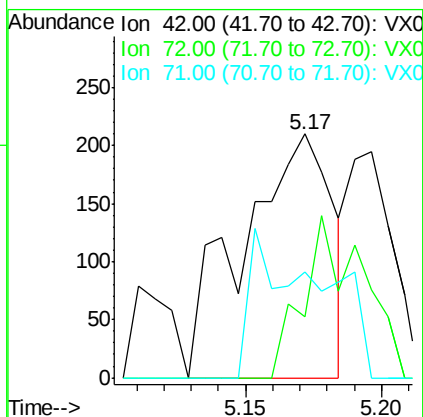
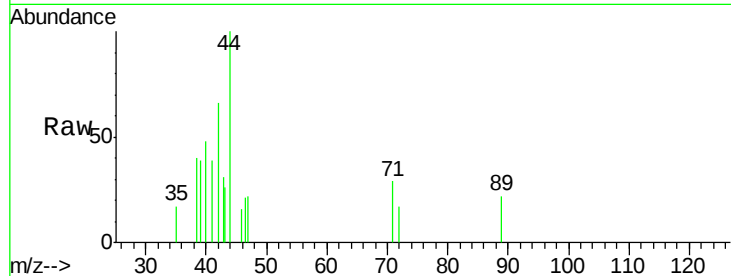




#29
Tetrahydrofuran
Concen: 0.35 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

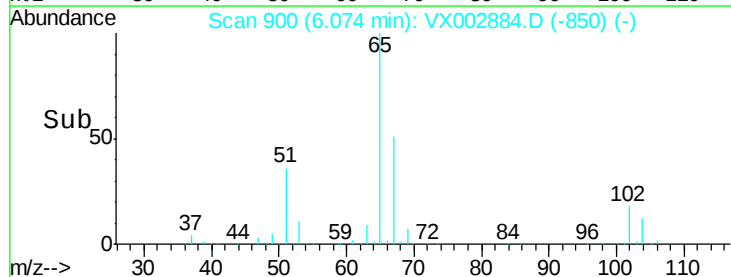
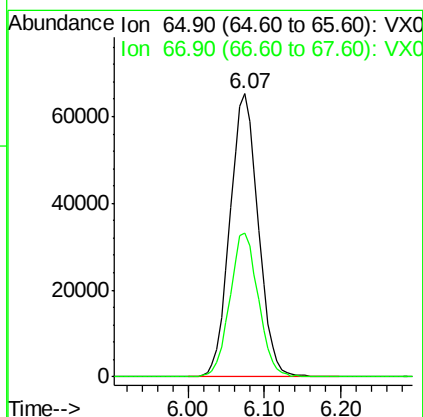
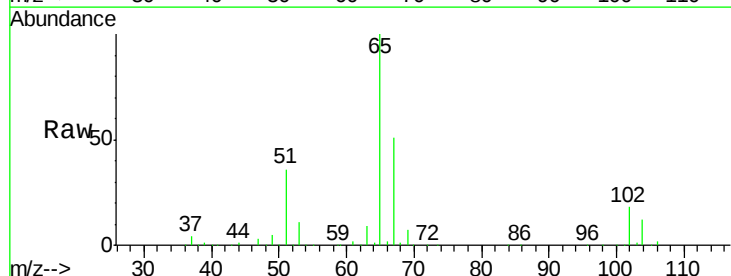
Instrument :
MSVOA_X
ClientSampled :

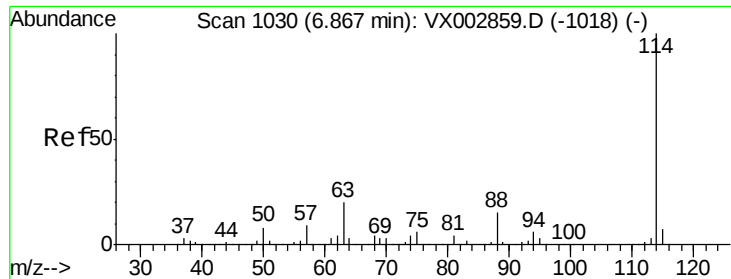
Tot Ion: 42 Resp: 482
Ion Ratio Lower Upper
42 100
72 43.6 32.0 48.0
71 0.0 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 48.60 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

Tgt Ion: 65 Resp: 167683
Ion Ratio Lower Upper
65 100
67 51.1 0.0 102.6

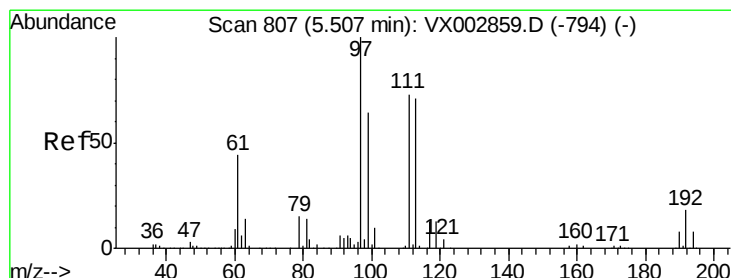
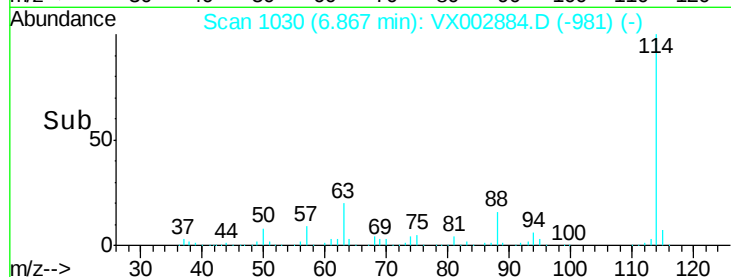
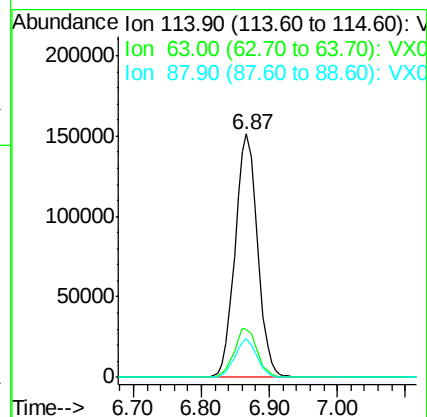
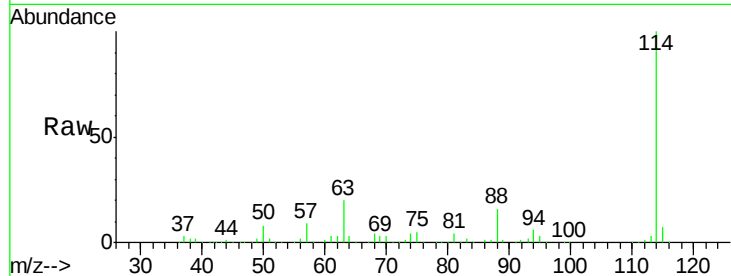




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002884.D
 Acq: 26 Jun 2018 02:33

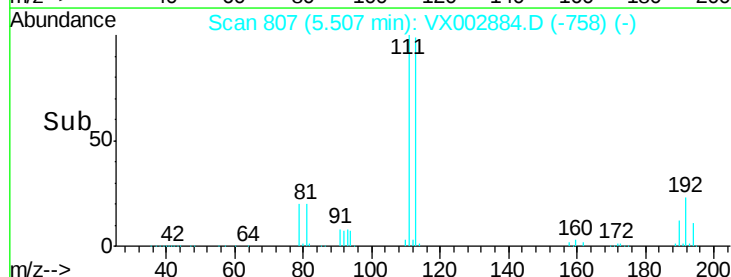
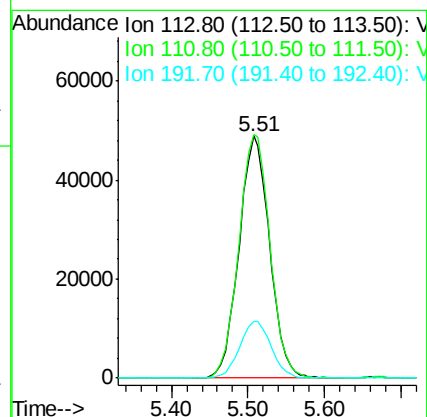
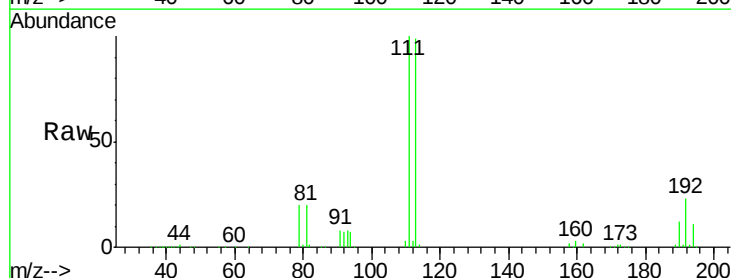
Instrument :
 MSVOA_X
 ClientSampleId :

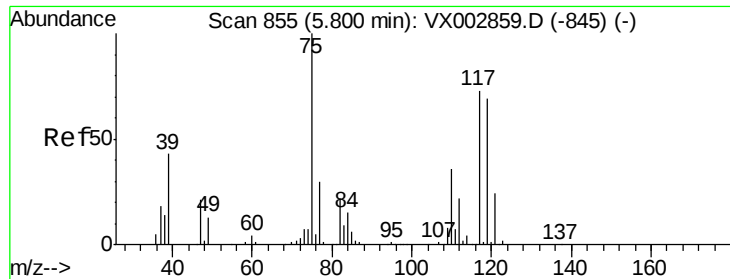
Tot Ion:114 Resp: 346893
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.4
 88 15.7 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 49.33 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002884.D
 Acq: 26 Jun 2018 02:33

Tgt Ion:113 Resp: 135501
 Ion Ratio Lower Upper
 113 100
 111 102.5 81.4 122.0
 192 24.3 19.1 28.7

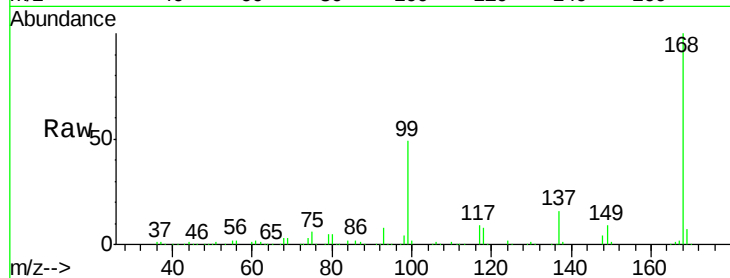




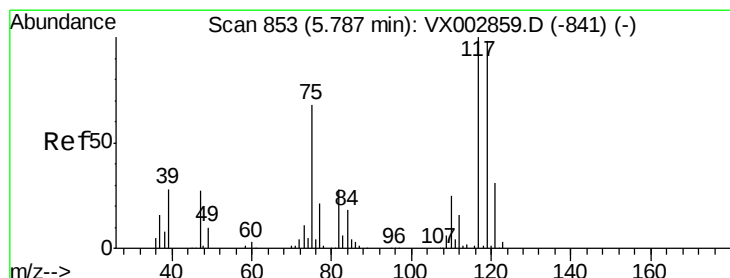
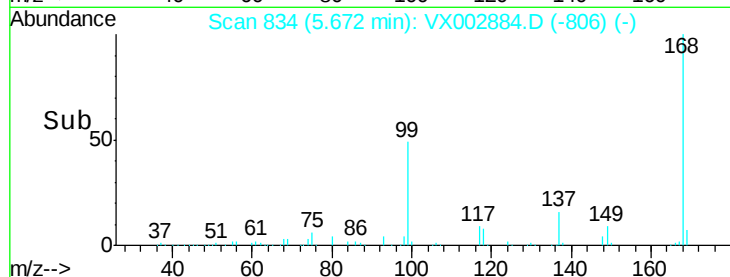
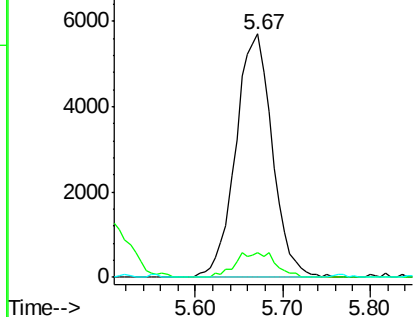
#36
 1,1-Dichloropropene
 Concen: 4.34 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.13 min
 Lab File: VX002884.D
 Acq: 26 Jun 2018 02:33

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	75	Resp	16515
Ion Ratio	100	Lower	Upper
110	11.3	18.1	54.4#
77	0.0	24.3	36.5#

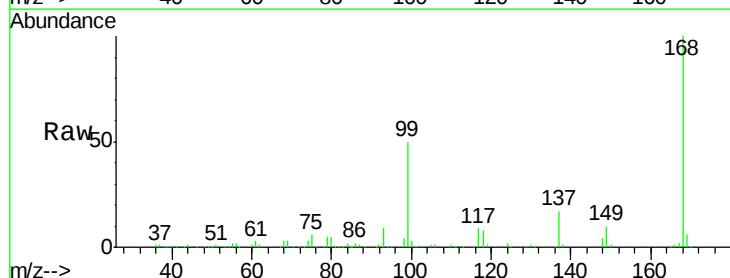


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

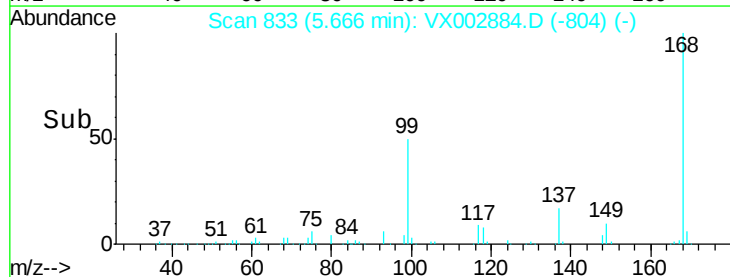
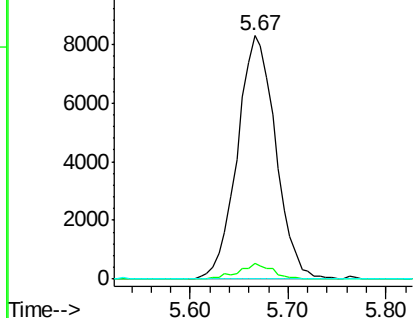


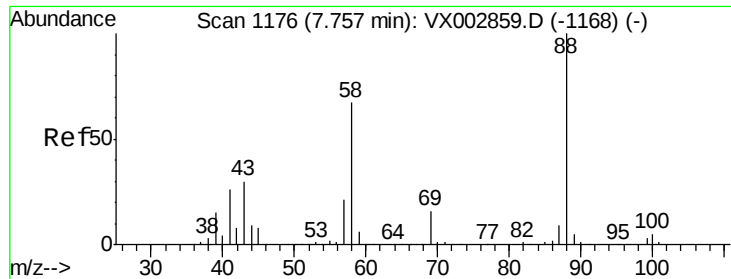
#38
 Carbon Tetrachloride
 Concen: 5.40 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002884.D
 Acq: 26 Jun 2018 02:33

Tgt Ion	117	Resp	22526
Ion Ratio	100	Lower	Upper
119	6.5	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: 2.48 ug/l

RT: 7.78 min Scan# 1180

Delta R.T. 0.02 min

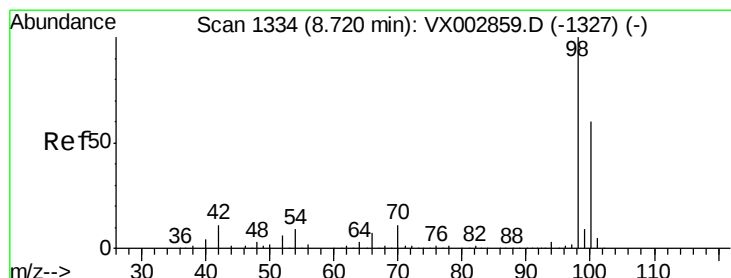
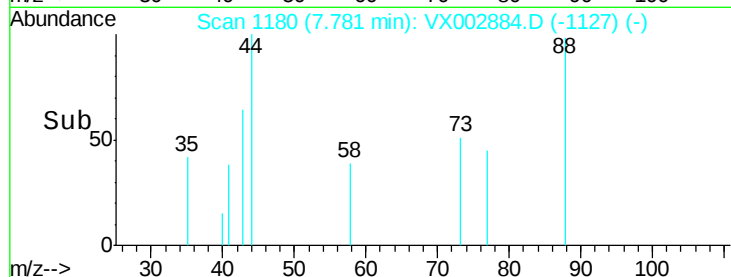
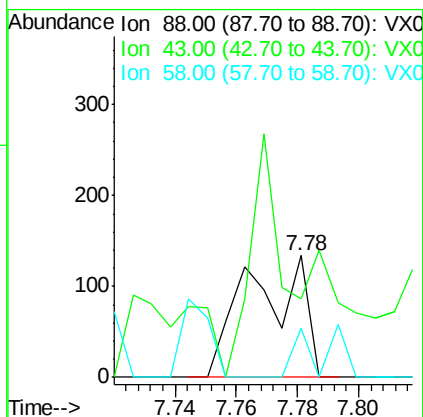
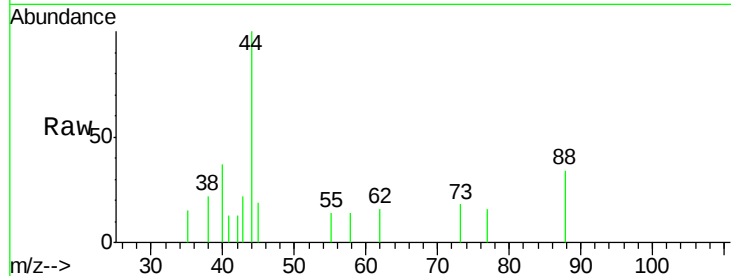
Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 88 Resp: 171

Ion	Ratio	Lower	Upper
88	100		
43	0.0	29.8	44.6#
58	24.0	57.1	85.7#



#50

Toluene-d8

Concen: 48.92 ug/l

RT: 8.72 min Scan# 1334

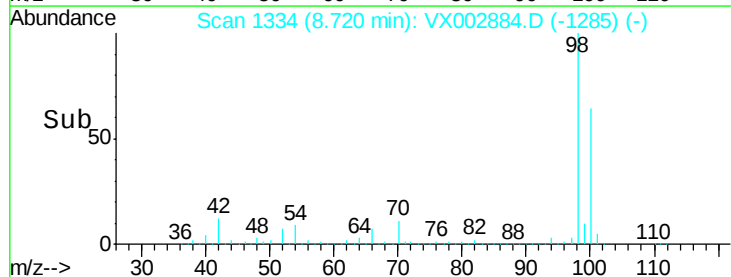
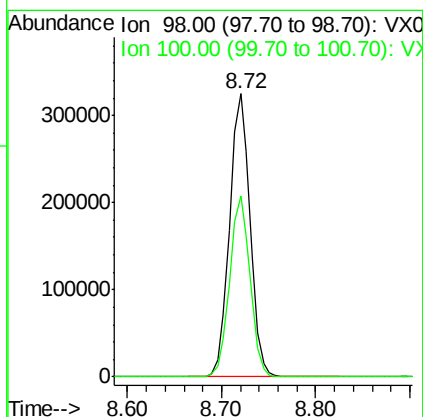
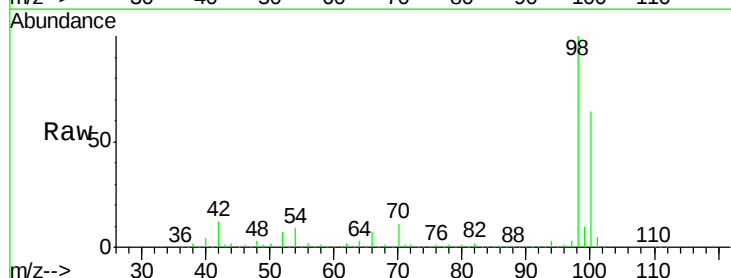
Delta R.T. 0.00 min

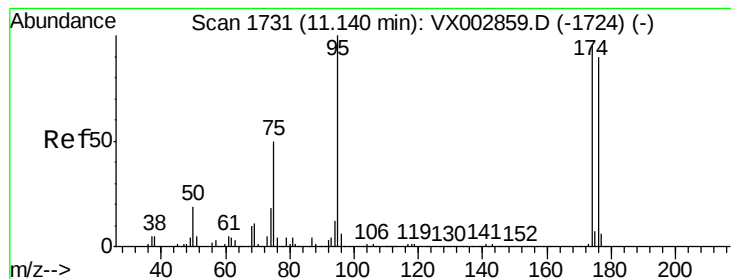
Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

Tgt Ion: 98 Resp: 490729

Ion	Ratio	Lower	Upper
98	100		
100	63.2	50.9	76.3





#62

4-Bromofluorobenzene

Concen: 45.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

Instrument :

MSVOA_X

ClientSampleId :

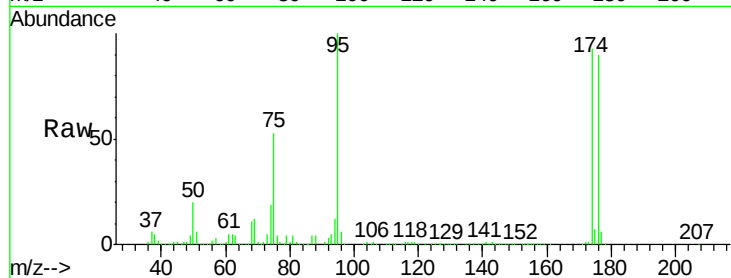
Tot Ion: 95 Resp: 175967

Ion Ratio Lower Upper

95 100

174 96.5 0.0 187.4

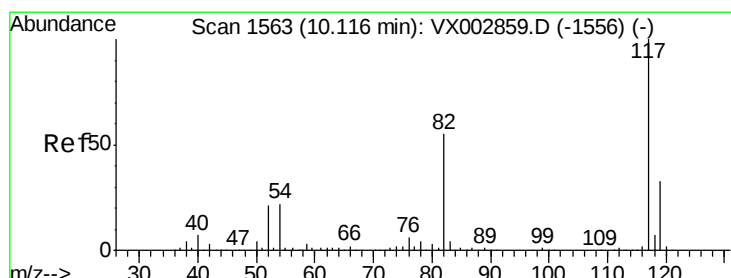
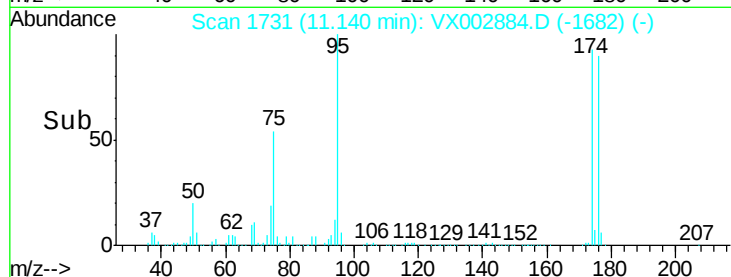
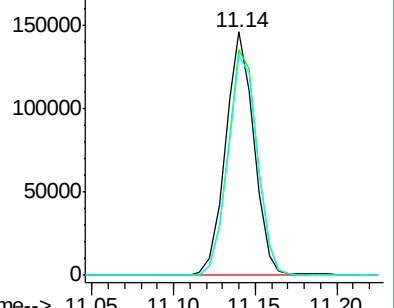
176 94.4 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002859.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002859.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002859.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

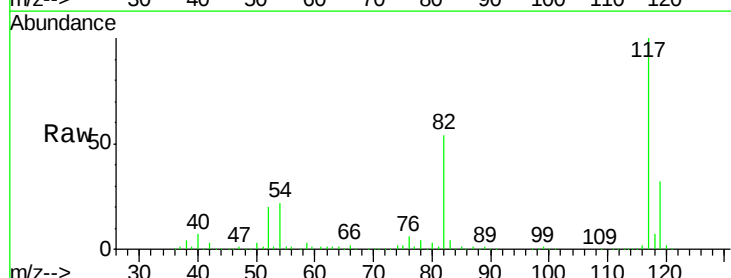
Tgt Ion: 117 Resp: 324575

Ion Ratio Lower Upper

117 100

82 53.6 45.0 67.4

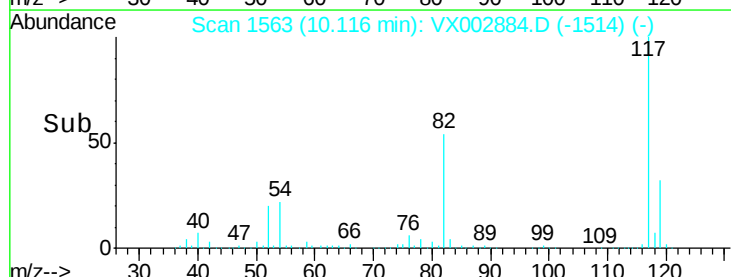
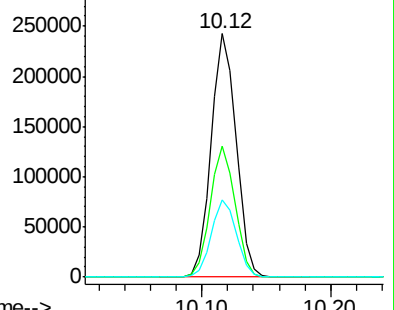
119 31.7 25.8 38.6

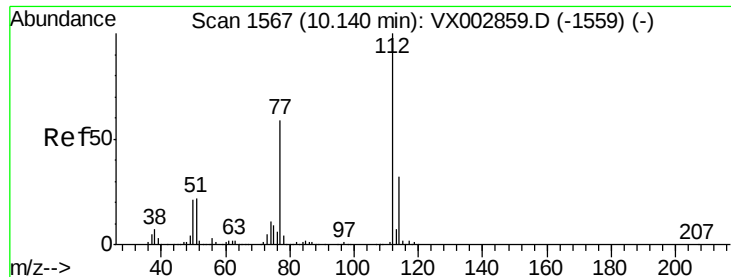


Abundance Ion 116.90 (116.60 to 117.60): VX002859.D (-1556) (-)

Ion 82.00 (81.70 to 82.70): VX002859.D (-1556) (-)

Ion 118.90 (118.60 to 119.60): VX002859.D (-1556) (-)





#65

Chlorobenzene

Concen: 1.06 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

Instrument :

MSVOA_X

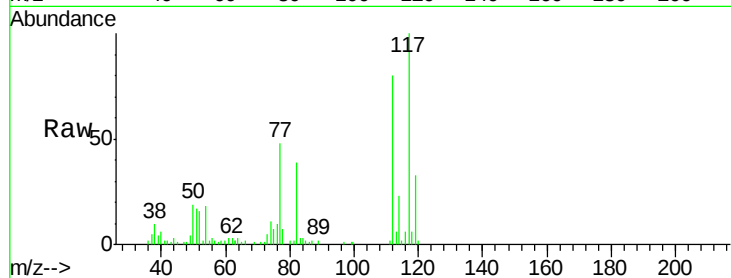
ClientSampled :

Tot Ion:112 Resp: 8770

Ion Ratio Lower Upper

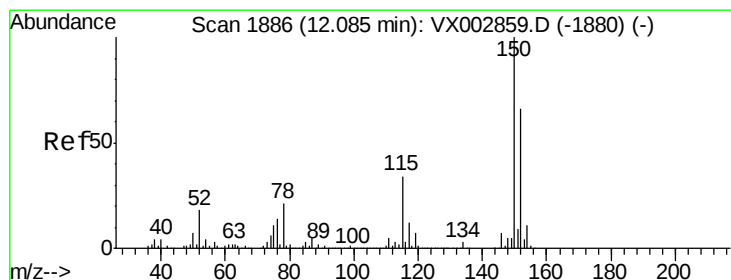
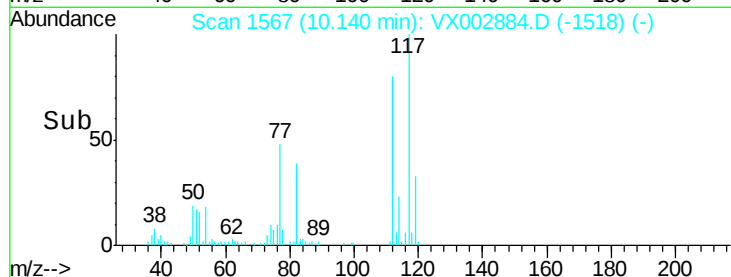
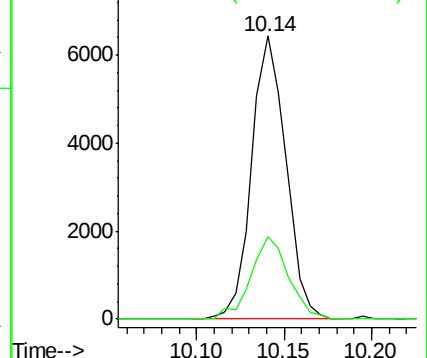
112 100

114 29.1 25.3 37.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX002884.D

Acq: 26 Jun 2018 02:33

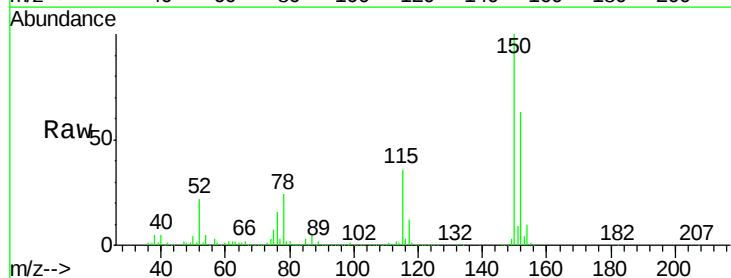
Tgt Ion:152 Resp: 189981

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

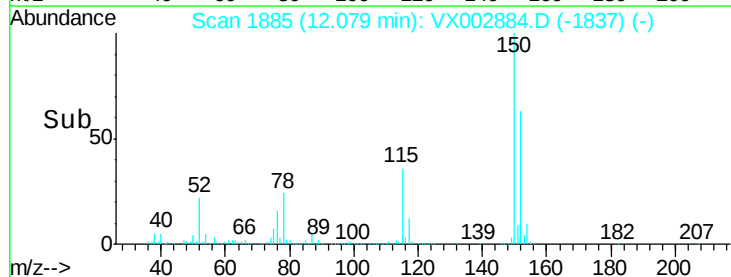
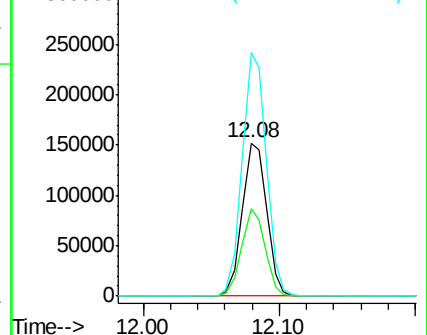
150 157.2 0.0 347.2

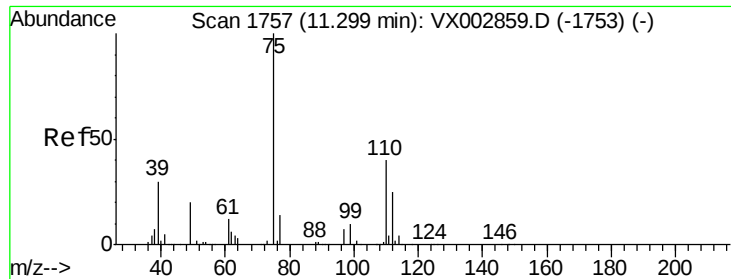


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

Instrument :

MSVOA_X

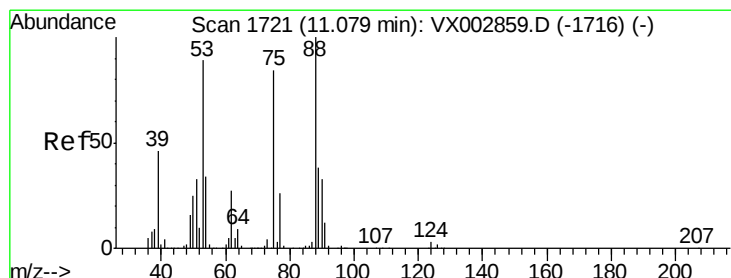
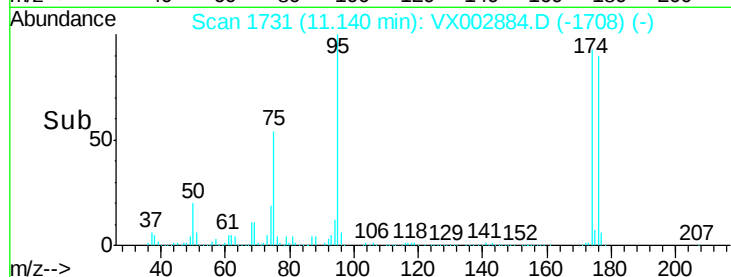
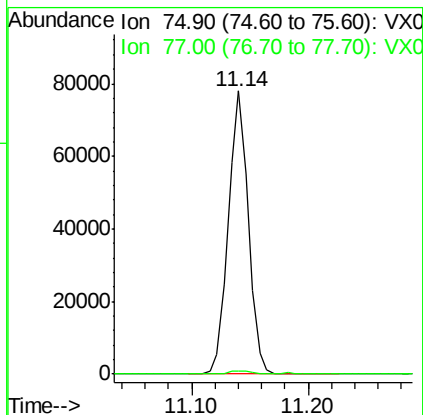
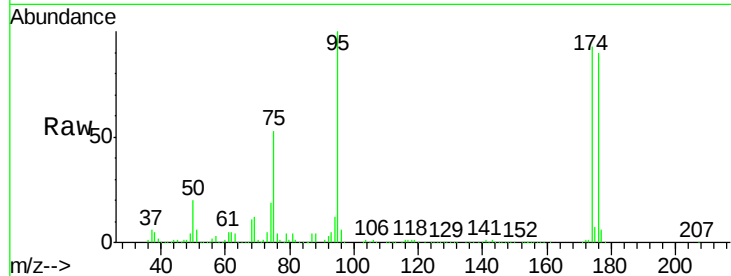
ClientSampleId :

Tot Ion: 75 Resp: 92808

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.35 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002884.D

Acq: 26 Jun 2018 02:33

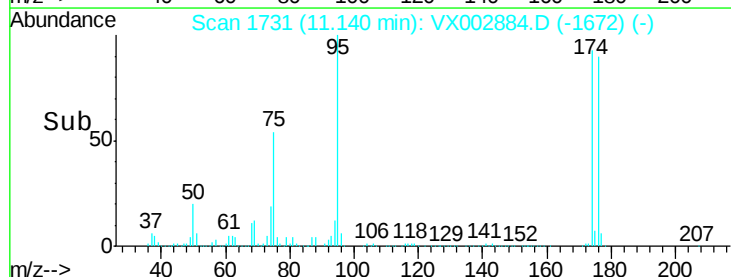
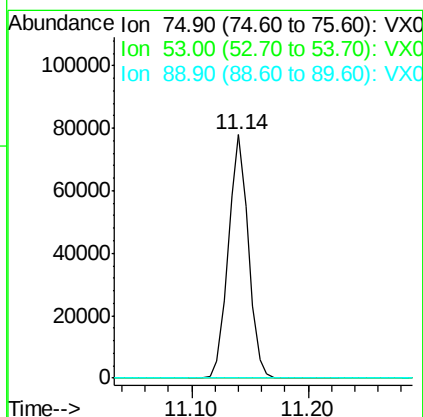
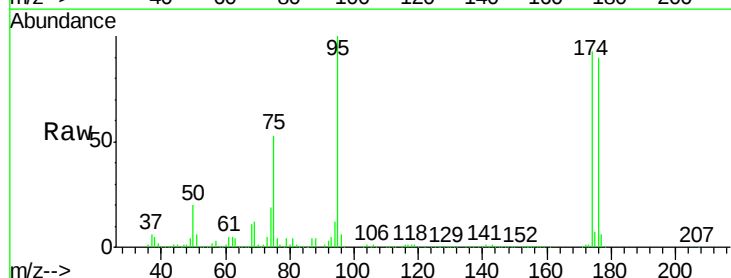
Tgt Ion: 75 Resp: 92808

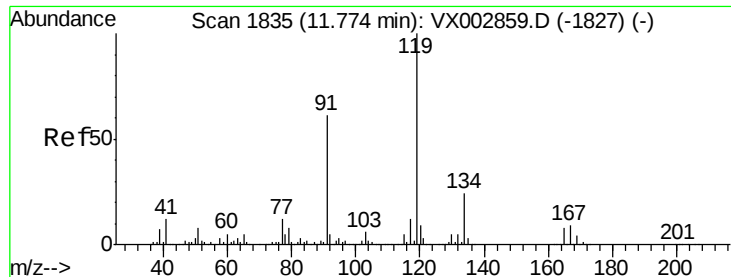
Ion Ratio Lower Upper

75 100

53 0.4 86.8 130.2#

89 0.0 38.2 57.2#

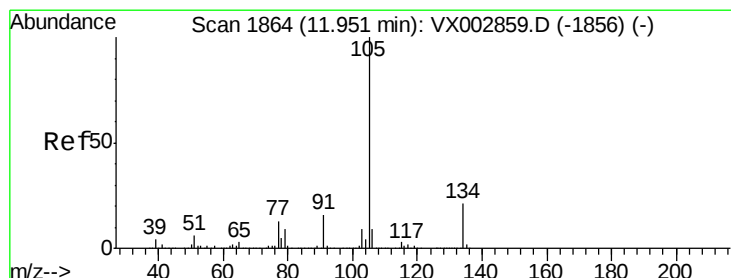
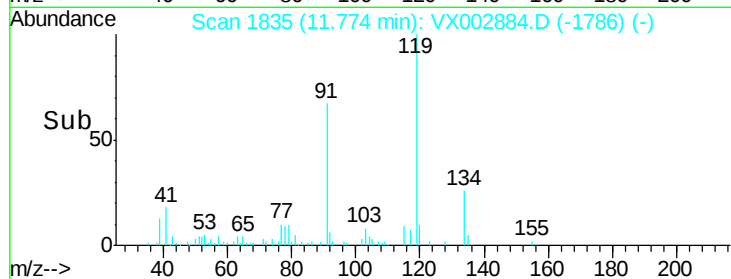
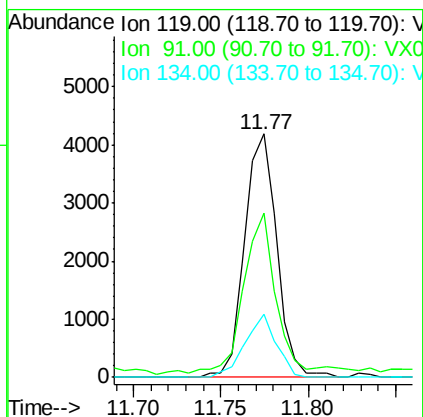
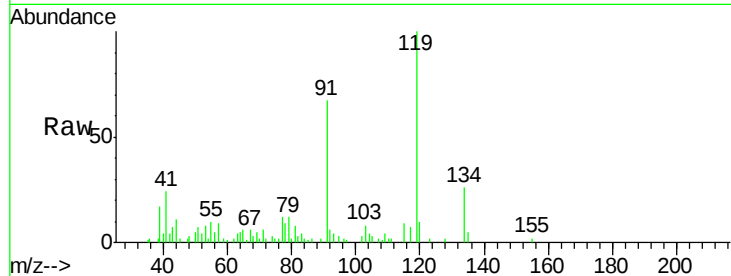




#83
tert-Butylbenzene
Concen: 0.51 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

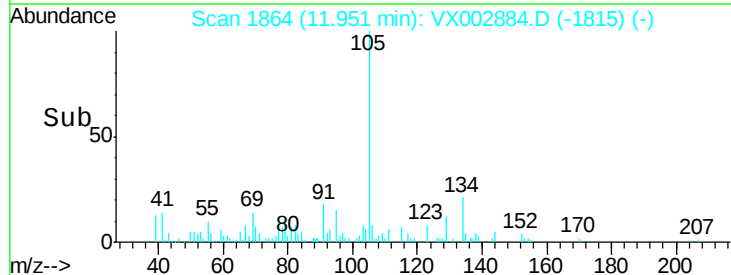
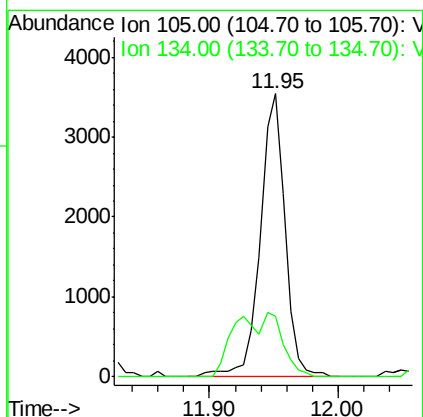
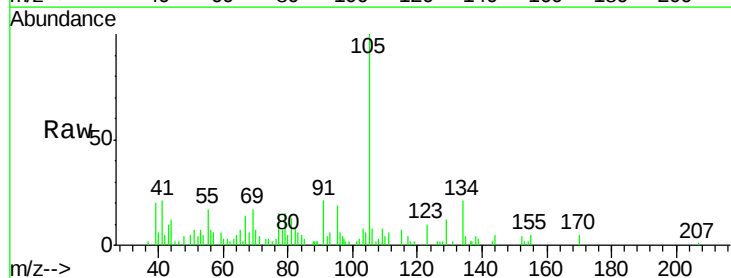
Instrument :
MSVOA_X
ClientSampleId :

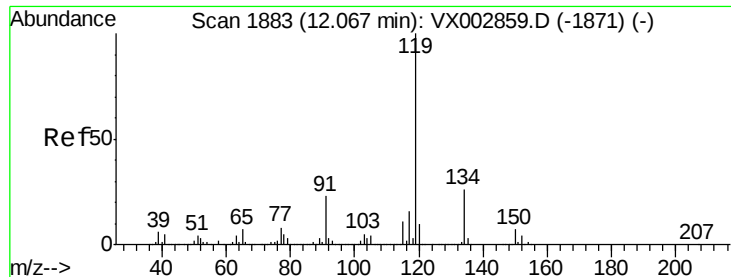
Tot Ion:119 Resp: 5397
Ion Ratio Lower Upper
119 100
91 66.6 30.3 90.9
134 25.2 11.7 35.1



#85
sec-Butylbenzene
Concen: 0.36 ug/l
RT: 11.95 min Scan# 1864
Delta R.T. 0.00 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

Tgt Ion:105 Resp: 4694
Ion Ratio Lower Upper
105 100
134 0.0 10.4 31.1#

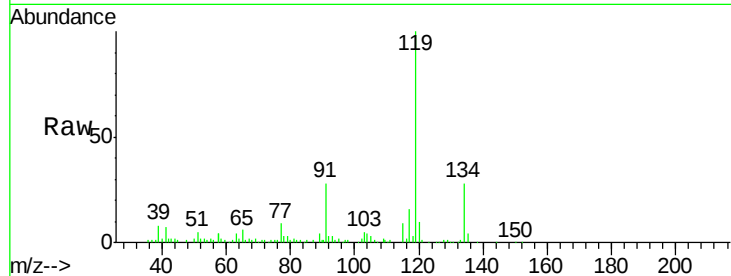




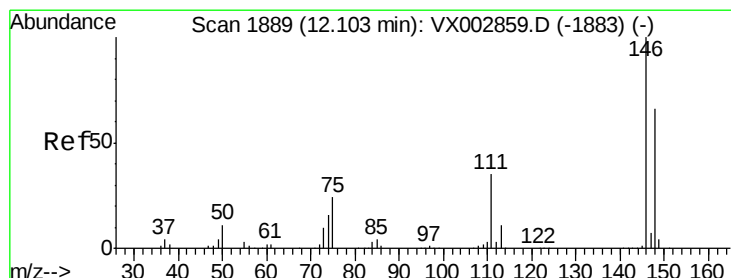
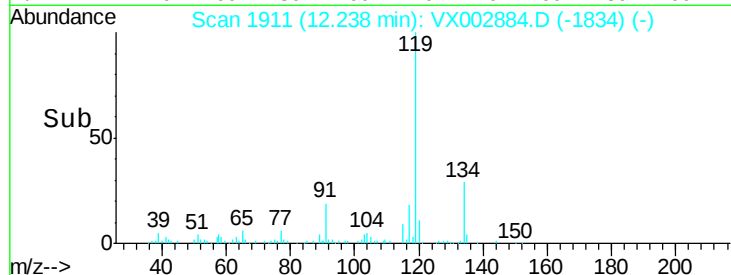
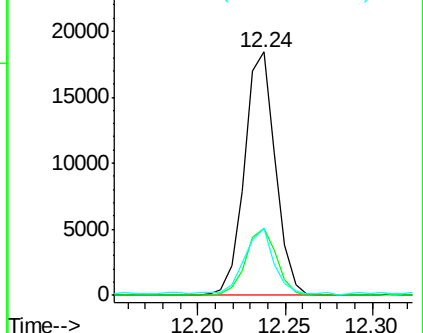
#86
p-Isopropyltoluene
Concen: 1.95 ug/l
RT: 12.24 min Scan# 1911
Delta R.T. 0.17 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:119 Resp: 22611
Ion Ratio Lower Upper
119 100
134 27.2 13.4 40.1
91 25.6 11.9 35.7

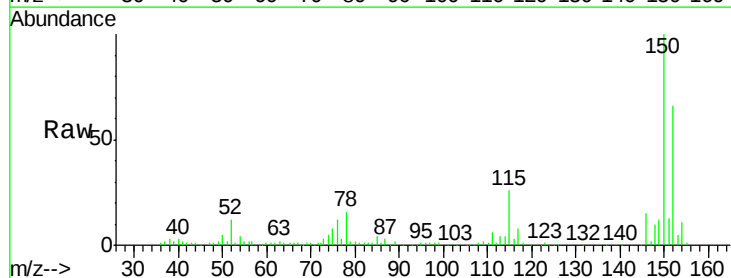


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 134.00 (133.70 to 134.70): V
Ion 91.00 (90.70 to 91.70): V

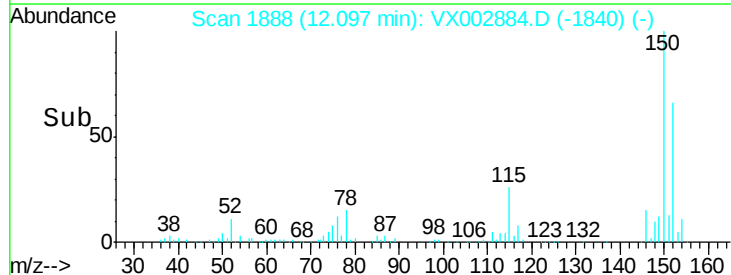
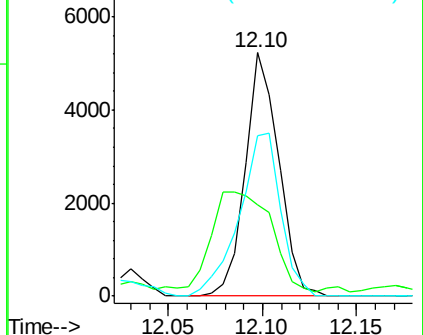


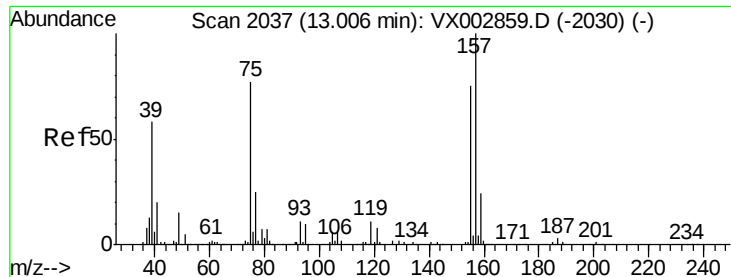
#88
1,4-Dichlorobenzene
Concen: 0.94 ug/l
RT: 12.10 min Scan# 1888
Delta R.T. -0.01 min
Lab File: VX002884.D
Acq: 26 Jun 2018 02:33

Tgt Ion:146 Resp: 6436
Ion Ratio Lower Upper
146 100
111 0.0 18.7 56.1#
148 82.8 32.4 97.0



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

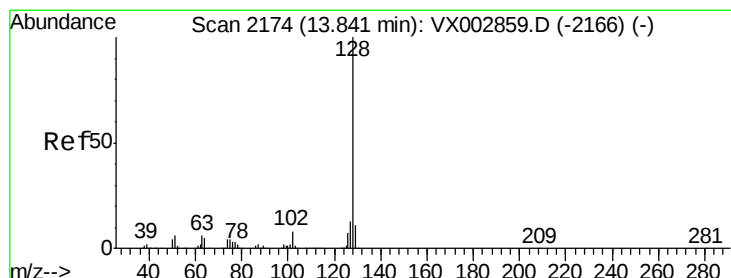
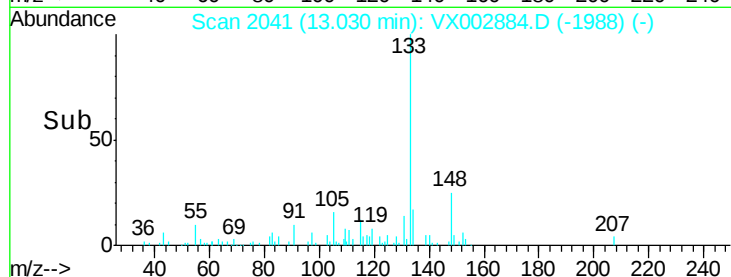
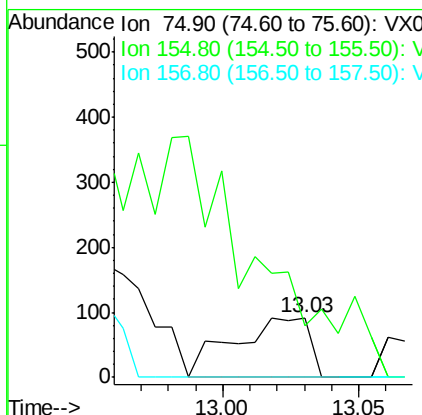
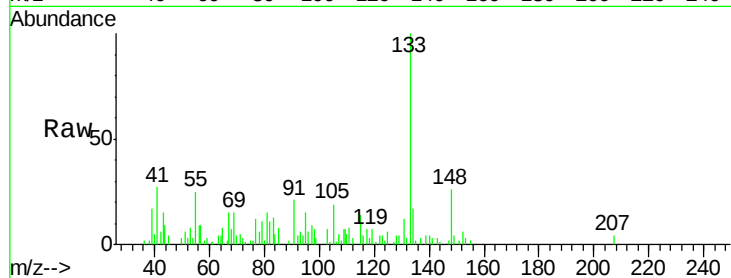




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.20 ug/l
 RT: 13.03 min Scan# 2041
 Delta R.T. 0.02 min
 Lab File: VX002884.D
 Acq: 26 Jun 2018 02:33

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 75 Resp: 178
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.8 137.4#
 157 0.0 60.1 180.3#



#95
 Naphthalene
 Concen: 0.26 ug/l
 RT: 13.86 min Scan# 2177
 Delta R.T. 0.02 min
 Lab File: VX002884.D
 Acq: 26 Jun 2018 02:33

Tgt Ion: 128 Resp: 3388
 Ion Ratio Lower Upper
 128 100
 127 28.0 10.4 15.6#
 129 63.1 8.6 13.0#

