

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062818\
 Data File : VX002994.D
 Acq On : 28 Jun 2018 19:13
 Operator : JC/MD
 Sample : J3717-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 1332

Quant Time: Jun 29 06:11:49 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	266958	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	374585	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	349917	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	212260	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	177547	48.12	ug/l	0.00
Spiked Amount			Recovery	=	96.24%	
35) Dibromofluoromethane	5.51	113	142956	48.19	ug/l	0.00
Spiked Amount			Recovery	=	96.38%	
50) Toluene-d8	8.72	98	528662	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
62) 4-Bromofluorobenzene	11.14	95	197483	47.27	ug/l	0.00
Spiked Amount			Recovery	=	94.54%	

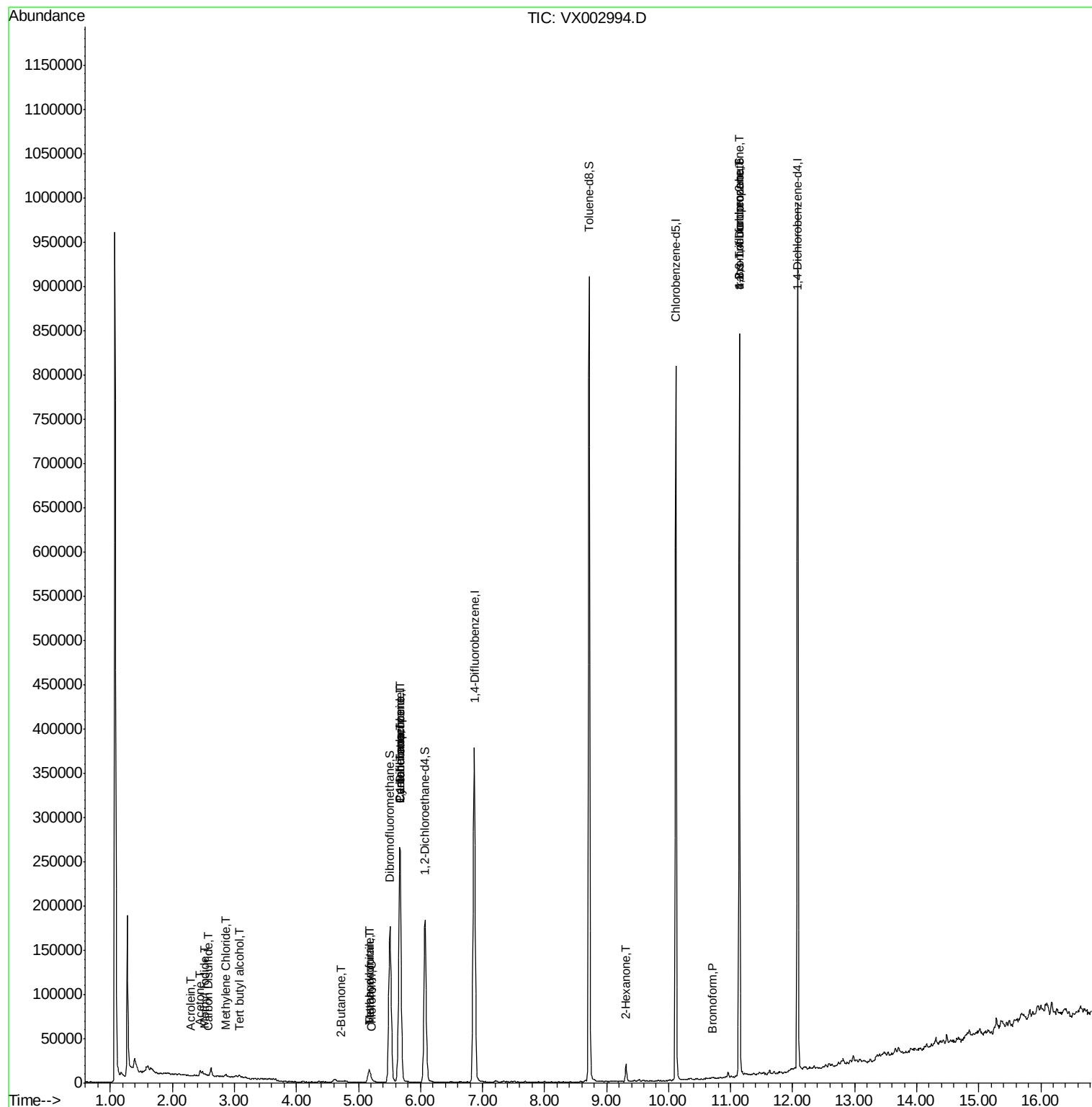
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	24	Below Cal	#	43
3) Chloromethane	1.33	50	966	Below Cal	#	81
5) Bromomethane	1.65	94	2124	Below Cal		99
6) Chloroethane	1.76	64	231	Below Cal	#	58
10) Methyl Iodide	2.52	142	3193	7.16	ug/l	93
11) Tert butyl alcohol	3.07	59	2555	3.48	ug/l	56
13) Acrolein	2.30	56	287	4.92	ug/l	61
16) Acetone	2.45	43	5834	3.82	ug/l	96
17) Carbon Disulfide	2.57	76	1971	0.28	ug/l	91
20) Methylene Chloride	2.86	84	1239	0.42	ug/l	84
25) 2-Butanone	4.72	43	1286	0.57	ug/l	98
29) Tetrahydrofuran	5.17	42	13040	8.97	ug/l	99
30) Chloroform	5.21	83	1828	0.33	ug/l	93
31) Cyclohexane	5.67	56	5489	1.19	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	18146	4.42	ug/l	# 52
38) Carbon Tetrachloride	5.67	117	24739	5.49	ug/l	# 15
41) Methacrylonitrile	5.17	41	8437	3.31	ug/l	# 53
59) 2-Hexanone	9.31	43	10752	3.05	ug/l	79
71) Bromoform	10.71	173	69	3.93	ug/l	# 28
76) 1,2,3-Trichloropropane	11.14	75	101811	26.48	ug/l	# 32
81) trans-1,4-Dichloro-2-buten	11.14	75	101811	75.03	ug/l	# 6

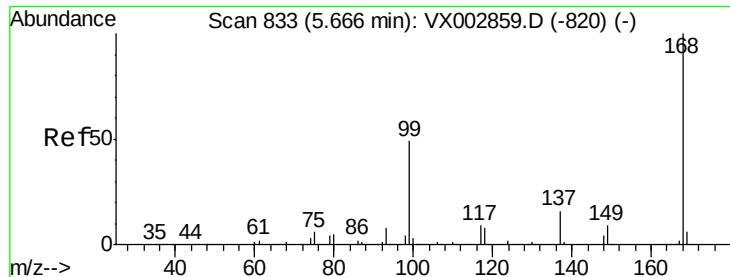
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.00 min

Lab File: VX002994.D

Acq: 28 Jun 2018 19:13

Instrument :

MSVOA_X

ClientSampled :

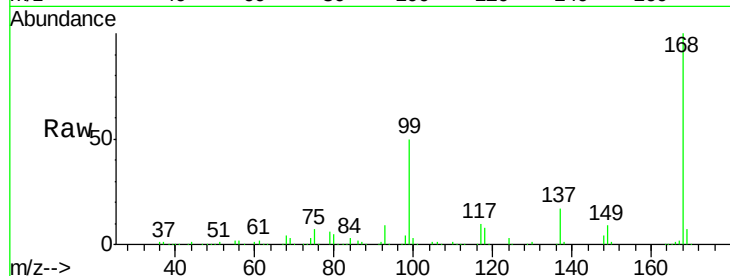
1332

Tot Ion:168 Resp: 266958

Ion Ratio Lower Upper

168 100

99 50.4 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

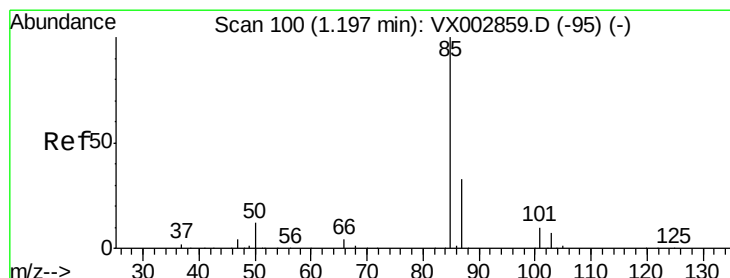
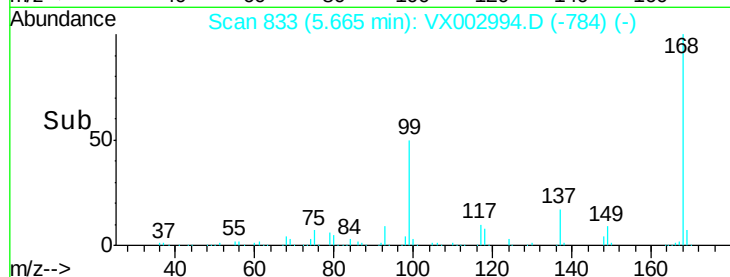
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.20 min Scan# 101

Delta R.T. 0.01 min

Lab File: VX002994.D

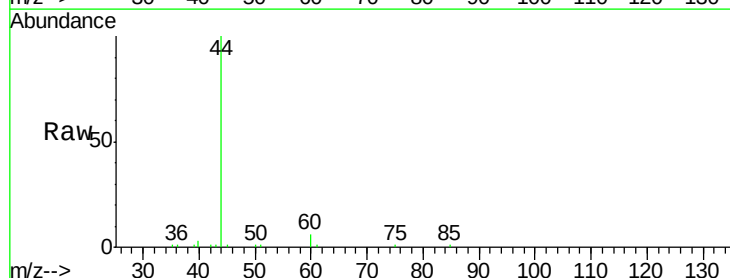
Acq: 28 Jun 2018 19:13

Tgt Ion: 85 Resp: 24

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

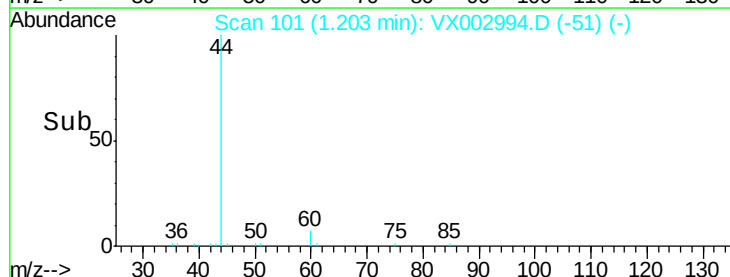
60

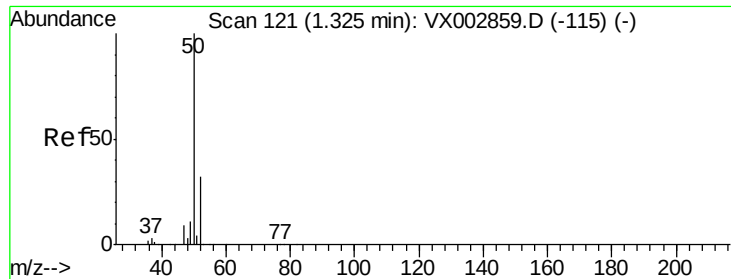
40

20

0

Time--> 1.18 1.19 1.20 1.21 1.22





#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002994.D

Acq: 28 Jun 2018 19:13

Instrument :

MSVOA_X

ClientSampleId :

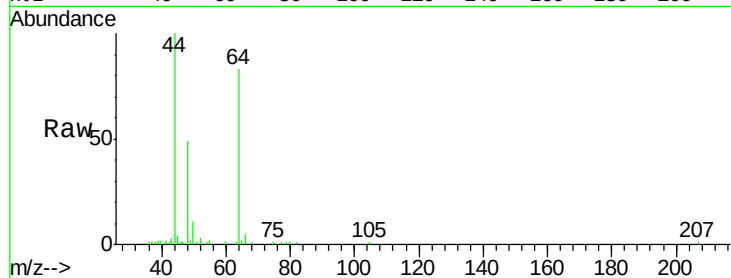
1332

Tot Ion: 50 Resp: 966

Ion Ratio Lower Upper

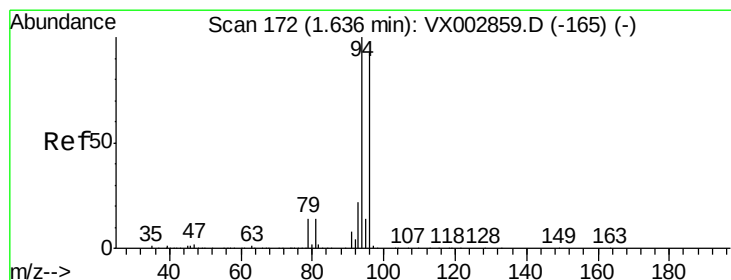
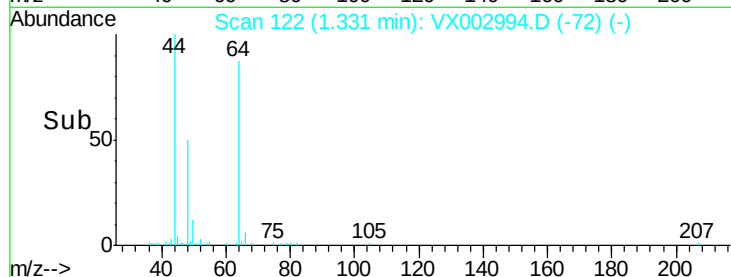
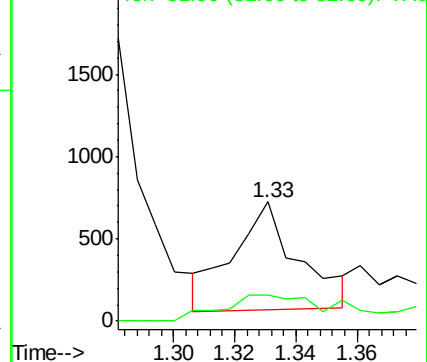
50 100

52 21.6 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: VX002994.D

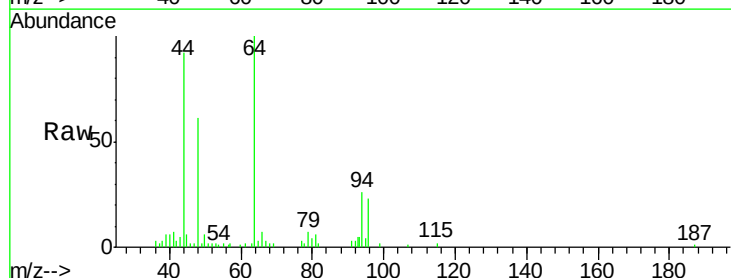
Acq: 28 Jun 2018 19:13

Tgt Ion: 94 Resp: 2124

Ion Ratio Lower Upper

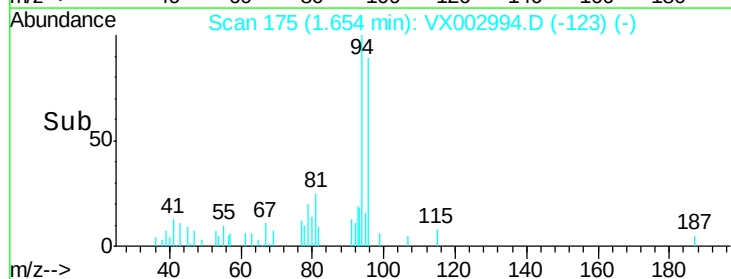
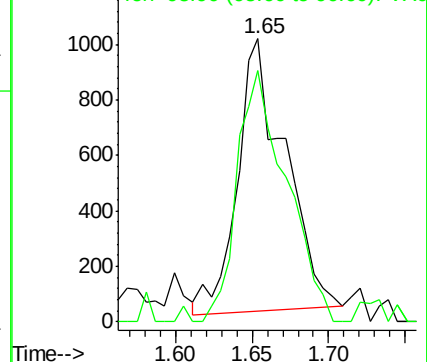
94 100

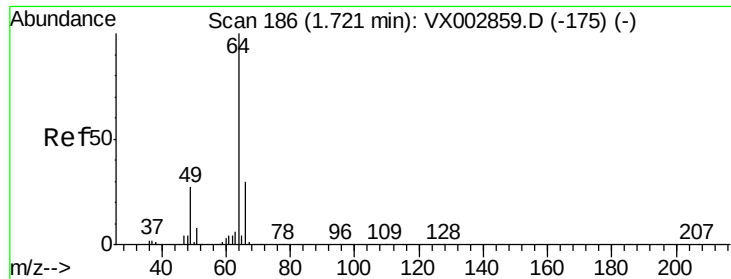
96 94.1 74.9 112.3



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: 1.76 min Scan# 192

Delta R.T. 0.04 min

Lab File: VX002994.D

Acq: 28 Jun 2018 19:13

Instrument :

MSVOA_X

ClientSampled :

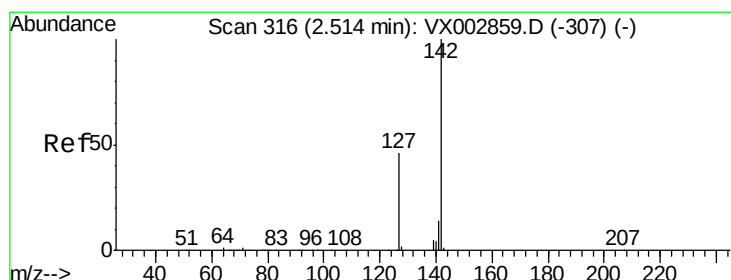
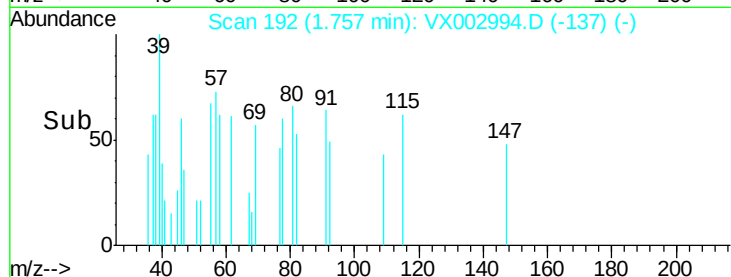
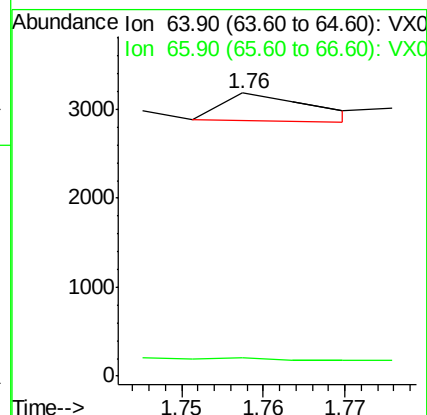
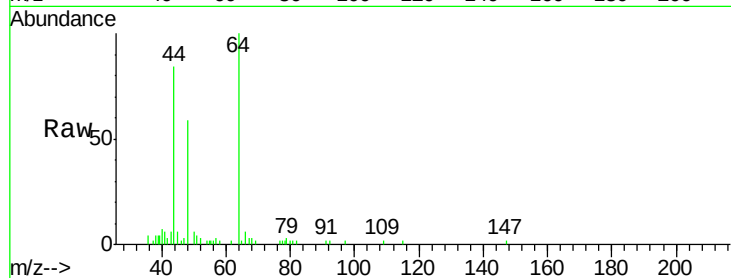
1332

Tot Ion: 64 Resp: 231

Ion Ratio Lower Upper

64 100

66 8.5 25.5 38.3#



#10

Methyl Iodide

Concen: 7.16 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002994.D

Acq: 28 Jun 2018 19:13

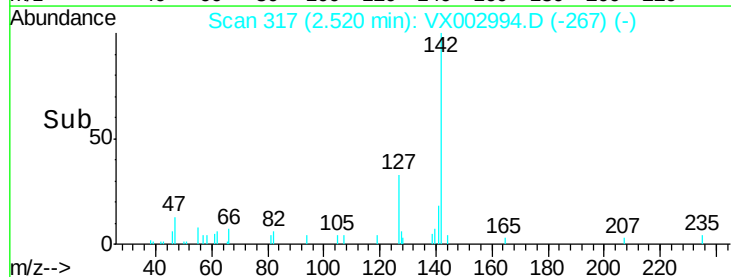
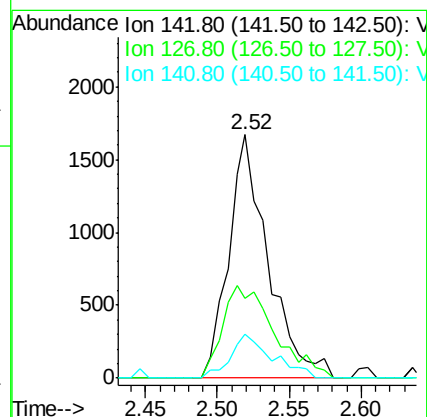
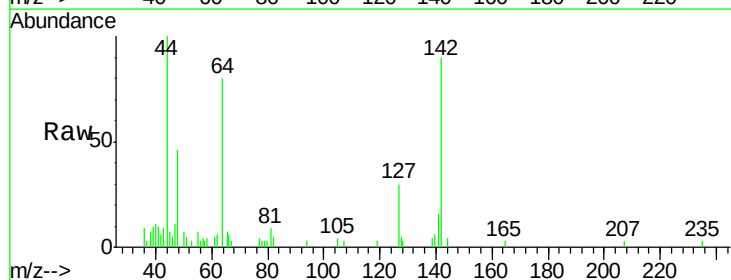
Tgt Ion: 142 Resp: 3193

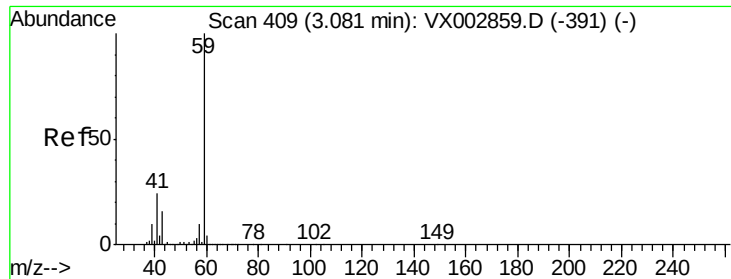
Ion Ratio Lower Upper

142 100

127 49.6 36.6 55.0

141 19.0 11.3 16.9#



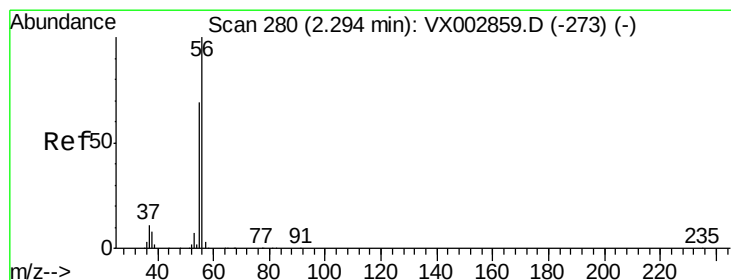
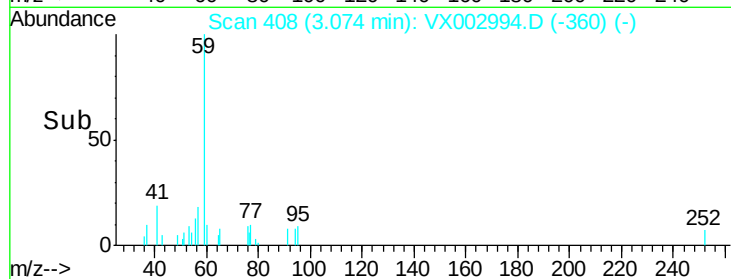
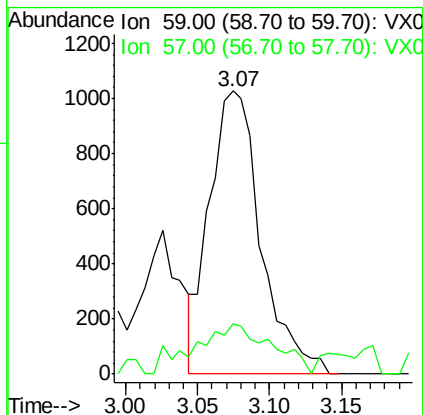
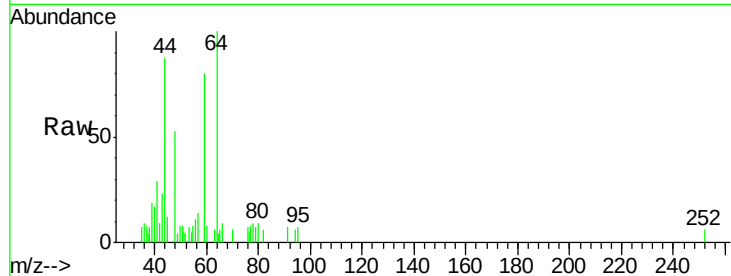


#11

Tert butyl alcohol
 Concen: 3.48 ug/l
 RT: 3.07 min Scan# 408
 Delta R.T. -0.01 min
 Lab File: VX002994.D
 Acq: 28 Jun 2018 19:13

Instrument :
 MSVOA_X
 ClientSampled :
 1332

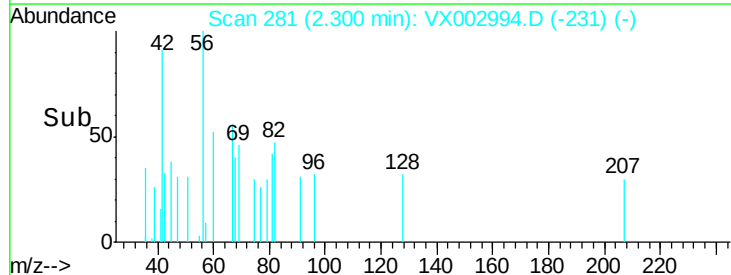
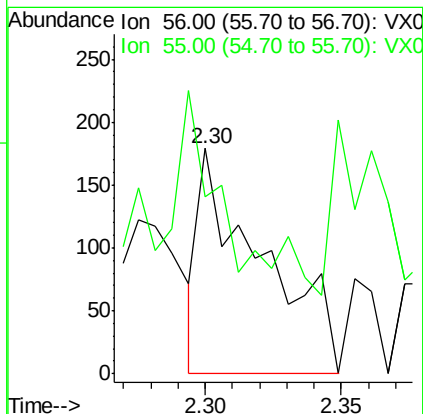
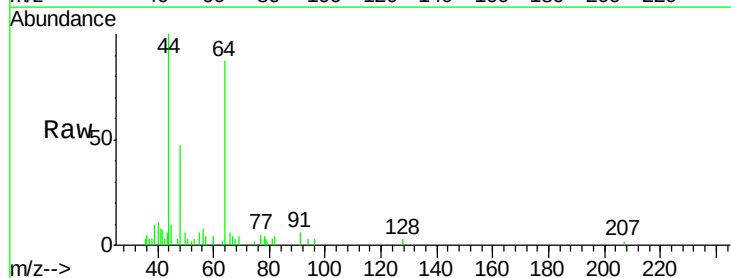
Tot Ion: 59 Resp: 2555
 Ion Ratio Lower Upper
 59 100
 57 26.6 8.2 12.2#

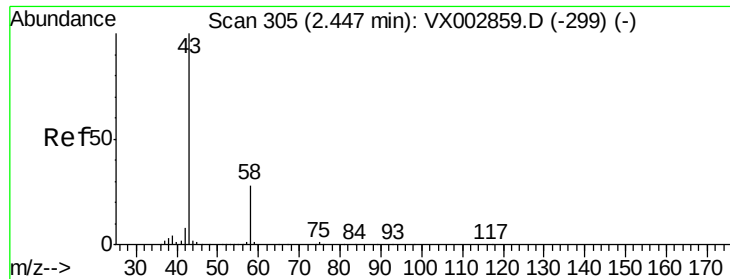


#13

Acrolein
 Concen: 4.92 ug/l
 RT: 2.30 min Scan# 281
 Delta R.T. 0.01 min
 Lab File: VX002994.D
 Acq: 28 Jun 2018 19:13

Tgt Ion: 56 Resp: 287
 Ion Ratio Lower Upper
 56 100
 55 39.0 57.0 85.4#





#16

Acetone

Concen: 3.82 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX002994.D

Acq: 28 Jun 2018 19:13

Instrument :

MSVOA_X

ClientSampleId :

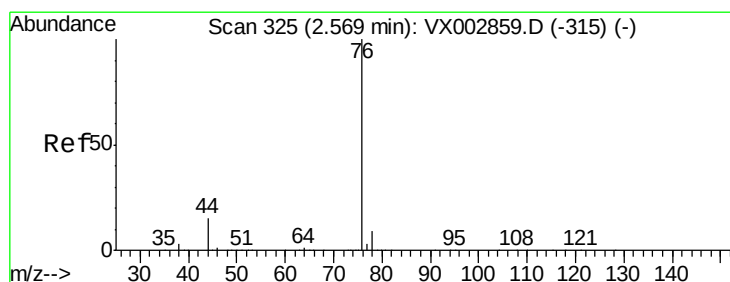
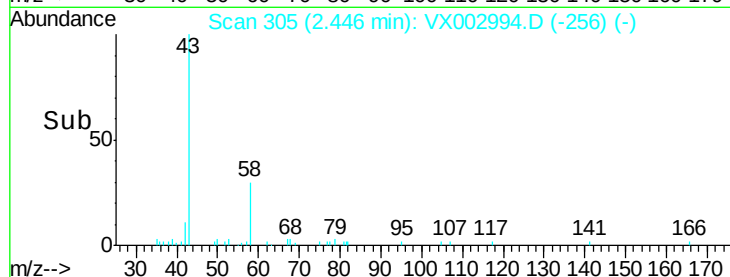
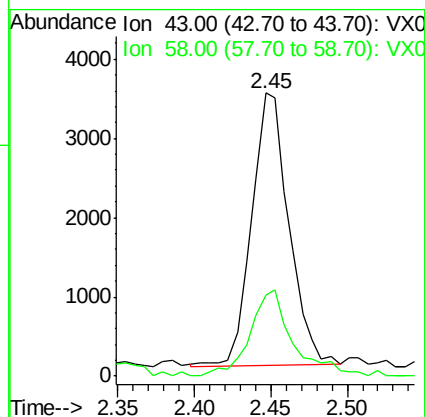
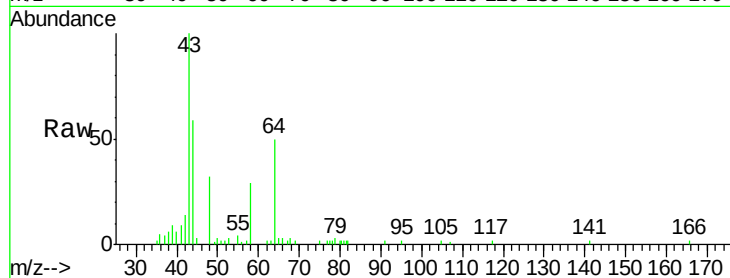
1332

Tot Ion: 43 Resp: 5834

Ion Ratio Lower Upper

43 100

58 29.9 22.1 33.1



#17

Carbon Disulfide

Concen: 0.28 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002994.D

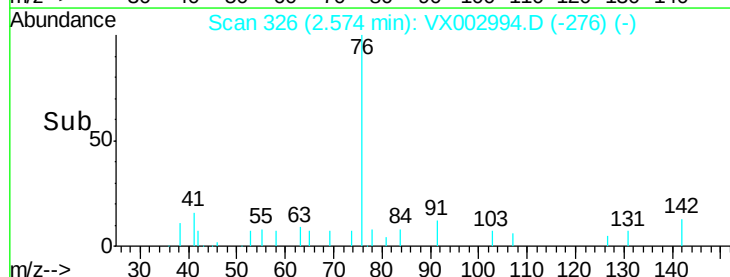
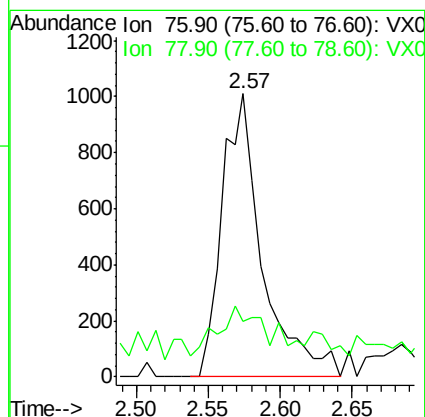
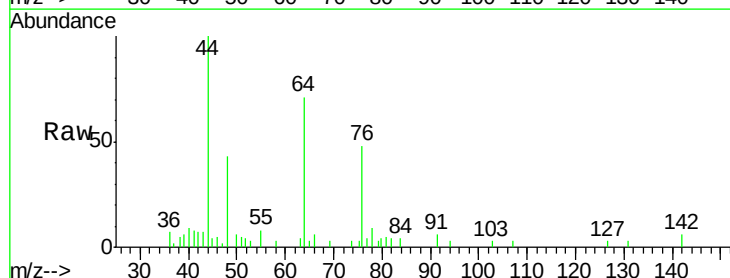
Acq: 28 Jun 2018 19:13

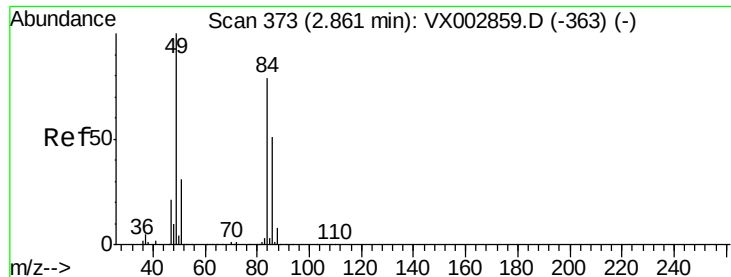
Tgt Ion: 76 Resp: 1971

Ion Ratio Lower Upper

76 100

78 12.0 6.9 10.3#

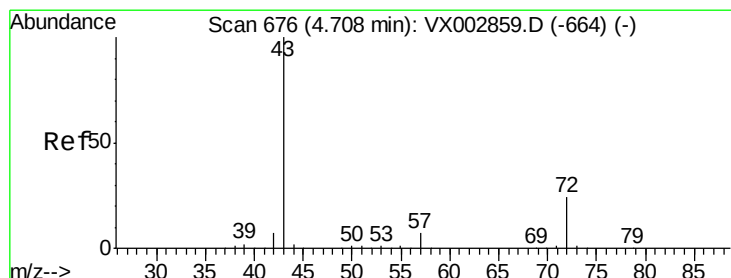
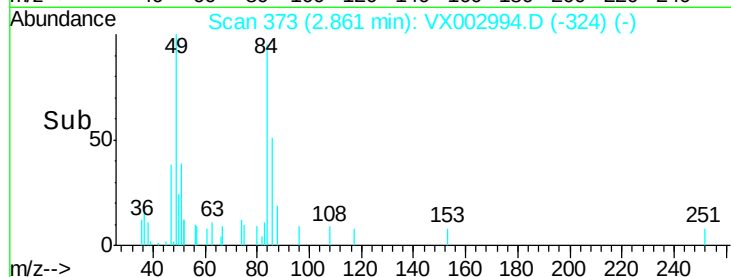
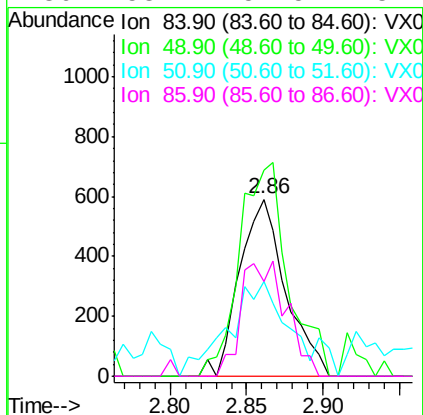
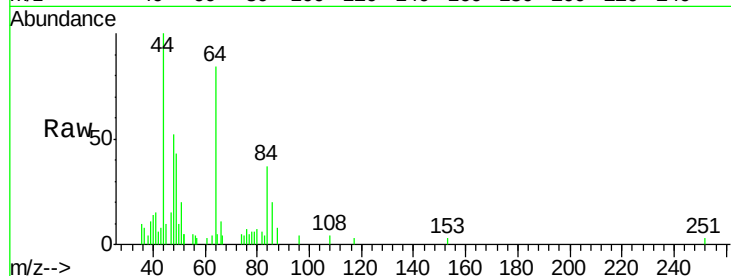




#20
Methylene Chloride
Concen: 0.42 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

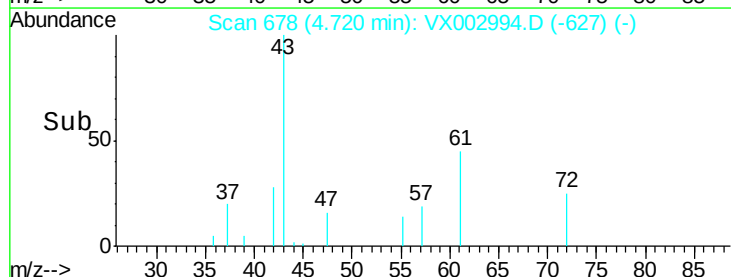
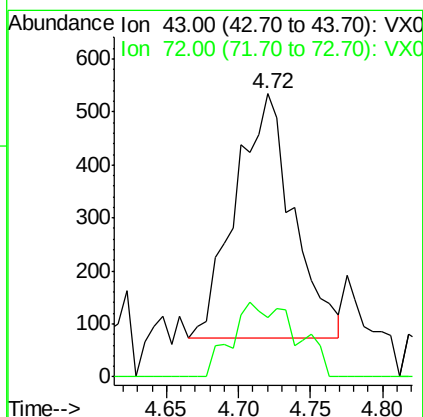
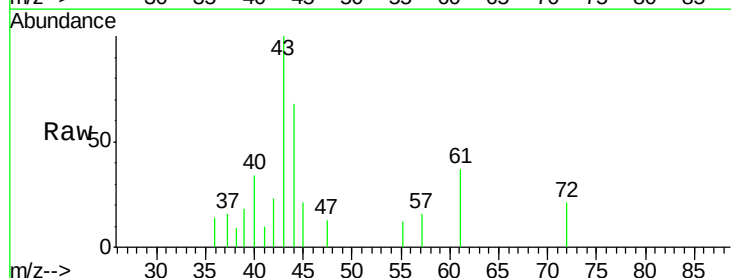
Instrument :
MSVOA_X
ClientSampled :
1332

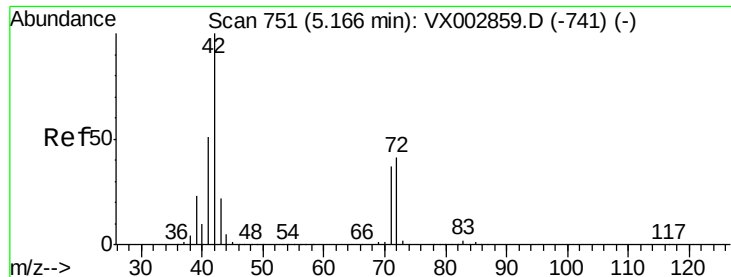
Tot Ion: 84 Resp: 1239
Ion Ratio Lower Upper
84 100
49 116.4 107.8 161.6
51 53.5 32.8 49.2#
86 53.7 52.5 78.7



#25
2-Butanone
Concen: 0.57 ug/l
RT: 4.72 min Scan# 678
Delta R.T. 0.01 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

Tgt Ion: 43 Resp: 1286
Ion Ratio Lower Upper
43 100
72 24.3 18.5 27.7

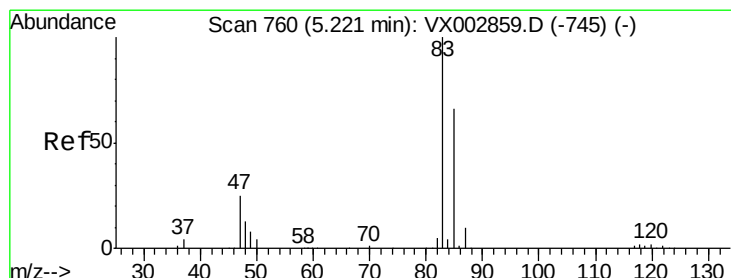
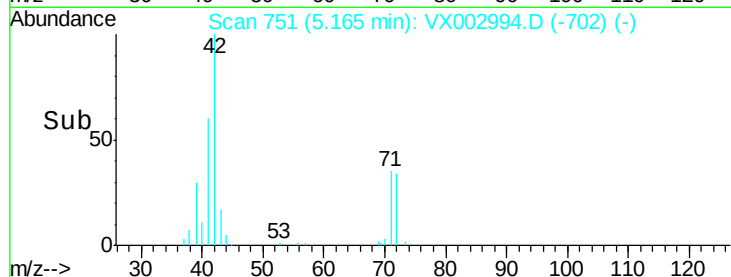
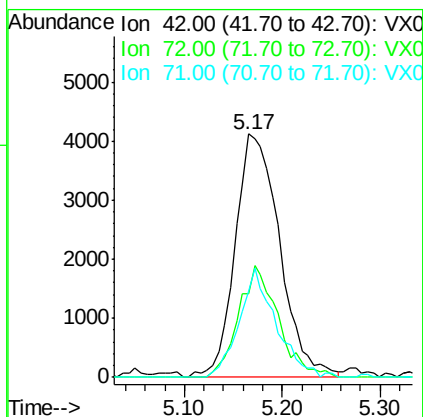
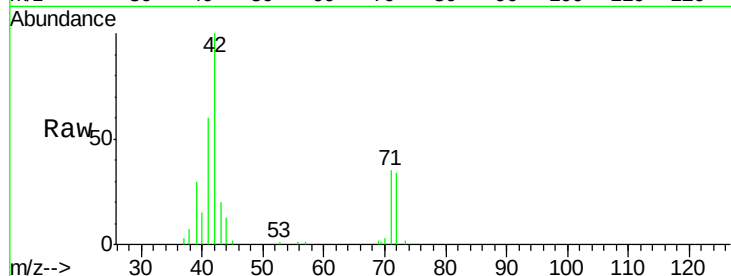




#29
Tetrahydrofuran
Concen: 8.97 ug/l
RT: 5.17 min Scan# 751
Delta R.T. -0.00 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

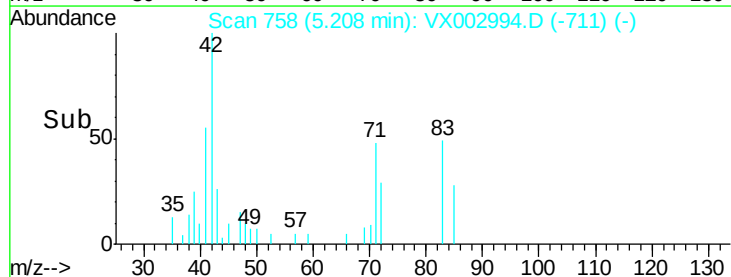
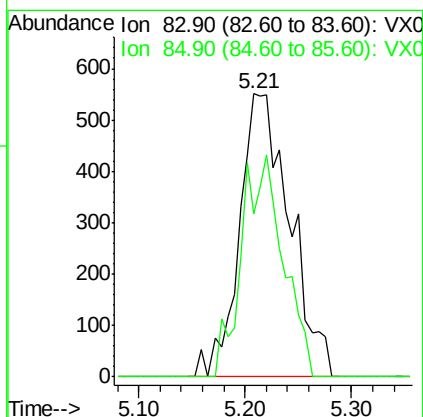
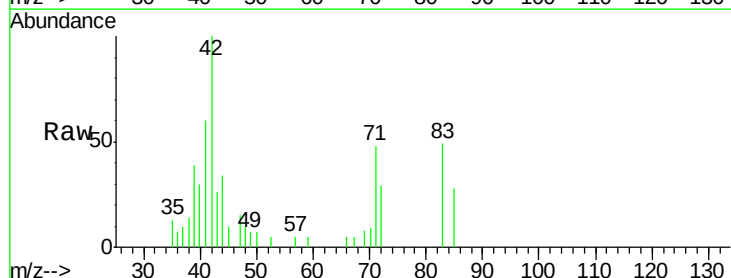
Instrument :
MSVOA_X
ClientSampled :
1332

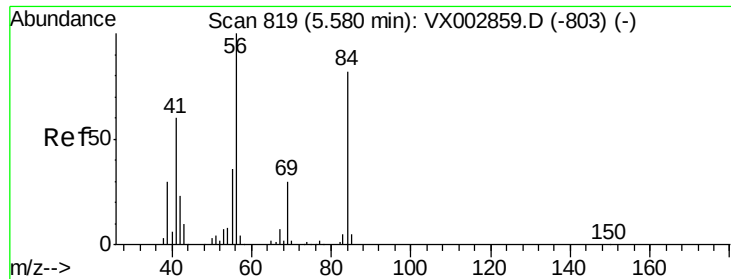
Tot Ion: 42 Resp: 13040
Ion Ratio Lower Upper
42 100
72 41.1 32.0 48.0
71 36.9 30.1 45.1



#30
Chloroform
Concen: 0.33 ug/l
RT: 5.21 min Scan# 758
Delta R.T. -0.01 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

Tgt Ion: 83 Resp: 1828
Ion Ratio Lower Upper
83 100
85 57.5 50.4 75.6

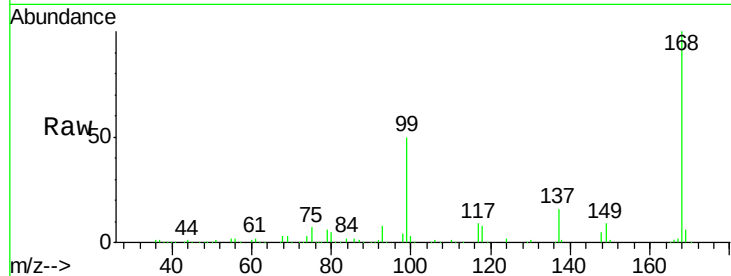




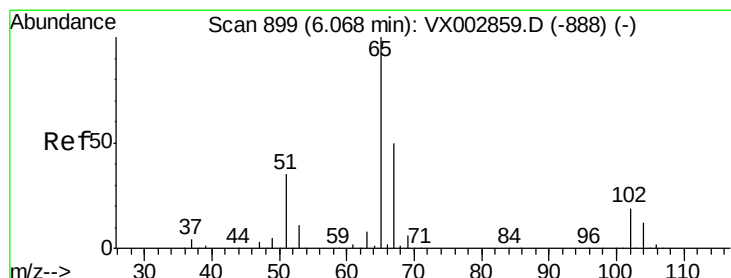
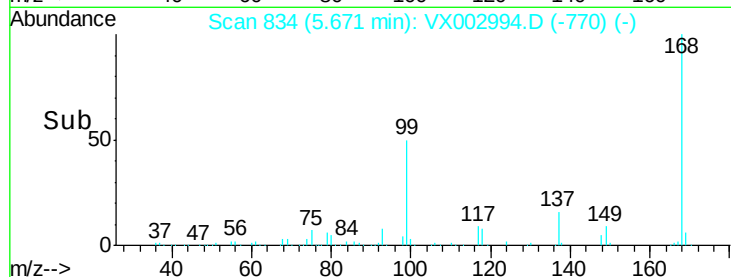
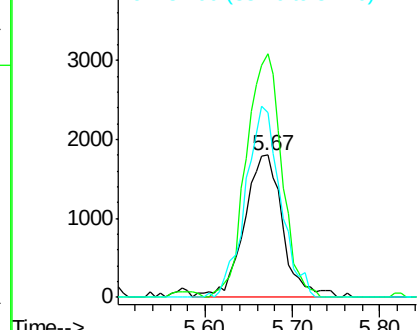
#31
Cyclohexane
Concen: 1.19 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

Instrument :
MSVOA_X
ClientSampleId :
1332

Tot Ion: 56 Resp: 5489
Ion Ratio Lower Upper
56 100
69 171.5 23.7 35.5#
84 130.3 64.1 96.1#

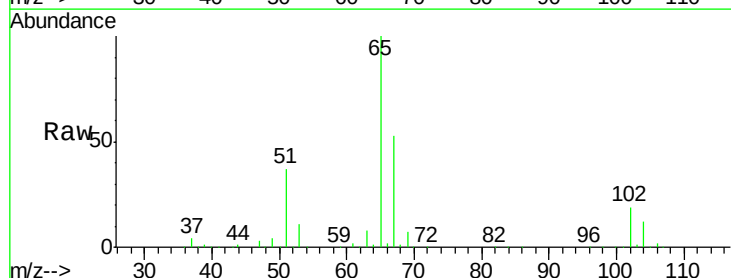


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

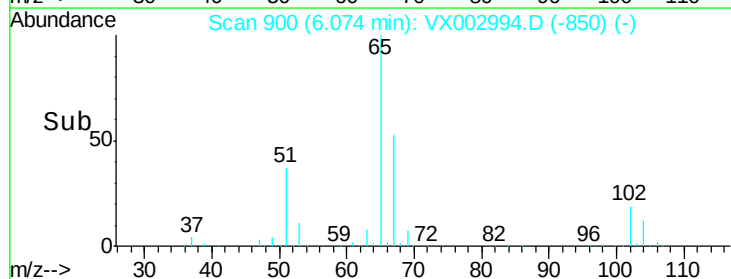
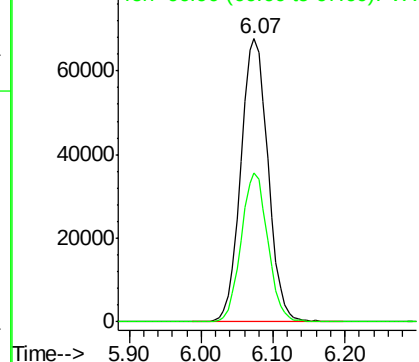


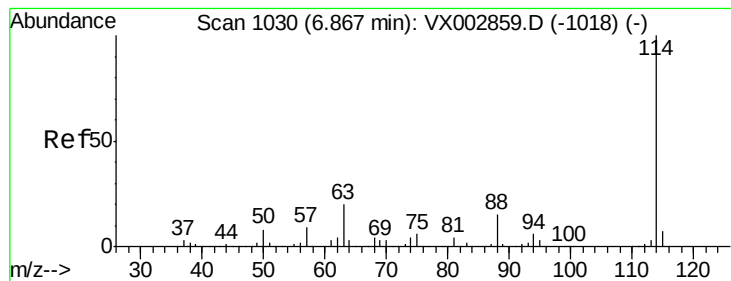
#33
1,2-Dichloroethane-d4
Concen: 48.12 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.01 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

Tgt Ion: 65 Resp: 177547
Ion Ratio Lower Upper
65 100
67 51.4 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002994.D

Acq: 28 Jun 2018 19:13

Instrument :

MSVOA_X

ClientSampleId :

1332

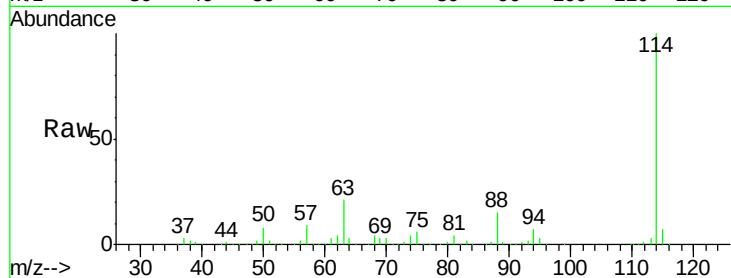
Tot Ion:114 Resp: 374585

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

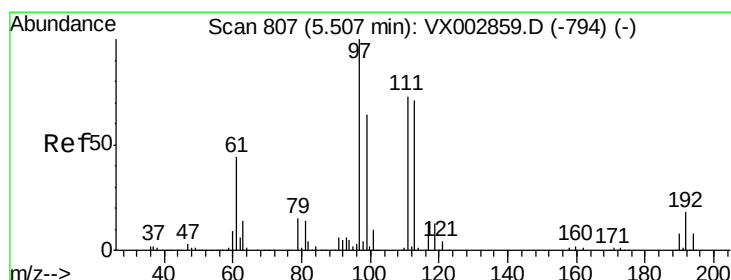
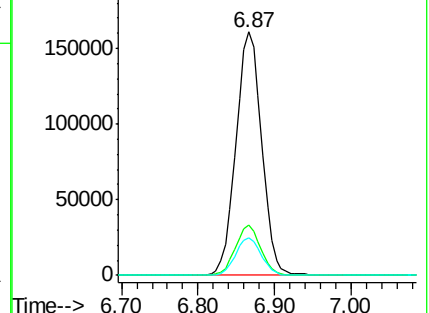
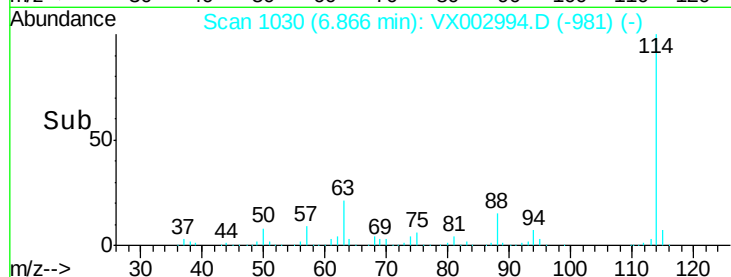
88 15.4 0.0 30.0



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: 48.19 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002994.D

Acq: 28 Jun 2018 19:13

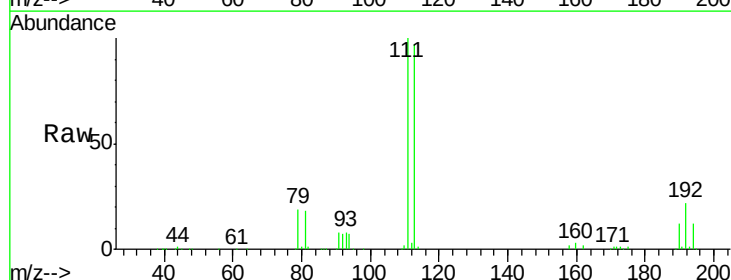
Tgt Ion:113 Resp: 142956

Ion Ratio Lower Upper

113 100

111 102.6 81.4 122.0

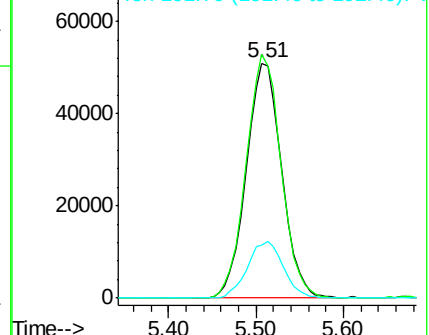
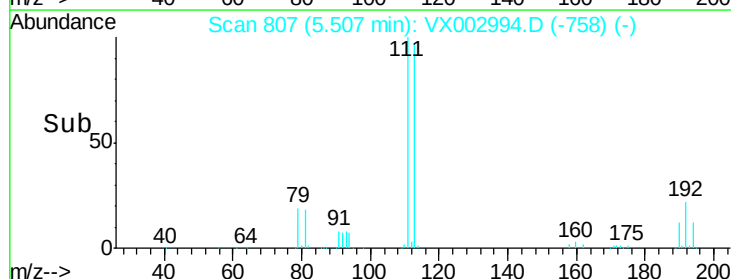
192 24.6 19.1 28.7

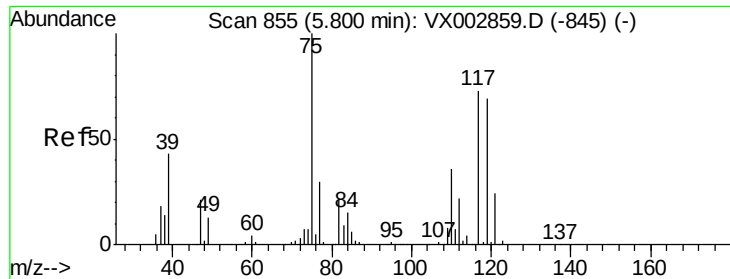


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

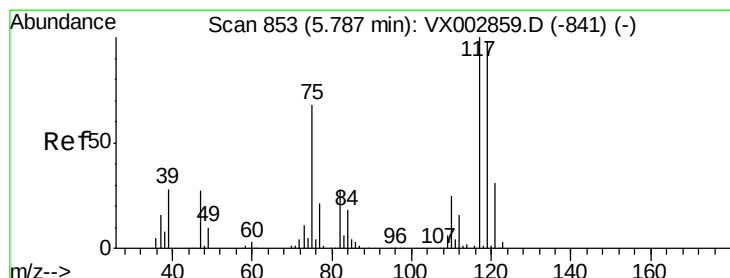
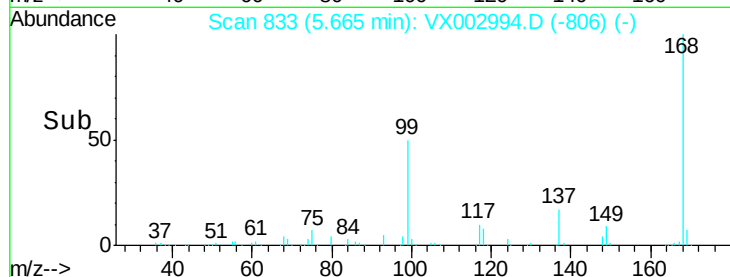
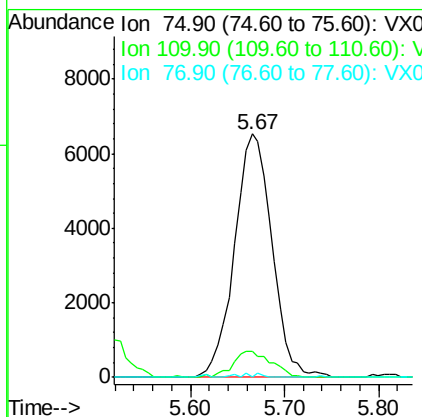
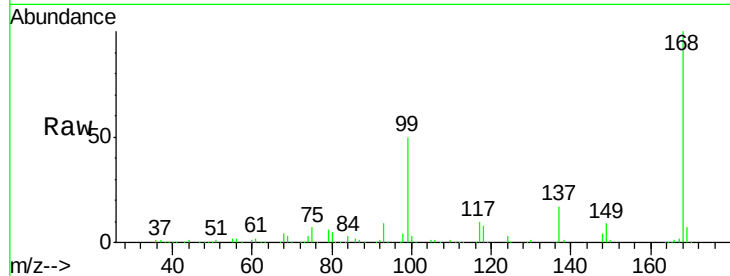




#36
 1,1-Dichloropropene
 Concen: 4.42 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002994.D
 Acq: 28 Jun 2018 19:13

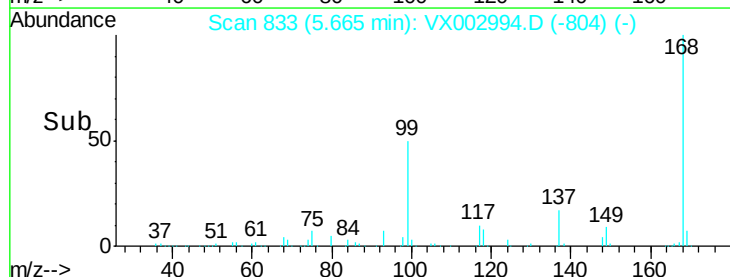
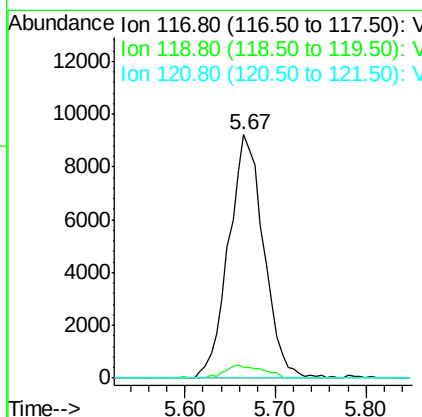
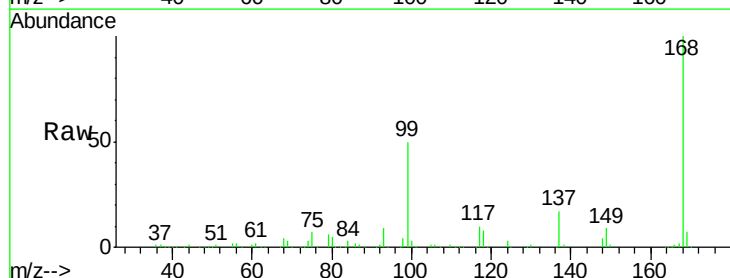
Instrument :
 MSVOA_X
 ClientSampleId :
 1332

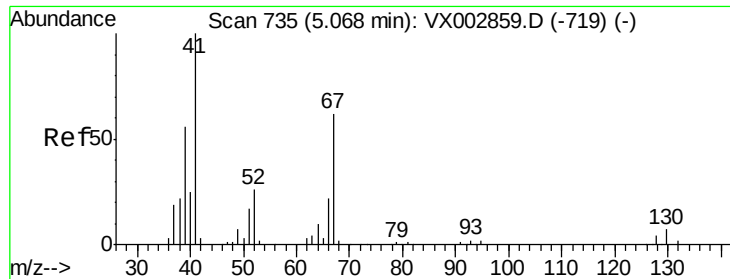
Tot Ion	75	Resp	18146
Ion Ratio	Lower	Upper	
75	100		
110	11.0	18.1	54.4#
77	0.5	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 5.49 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002994.D
 Acq: 28 Jun 2018 19:13

Tgt Ion	117	Resp	24739
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	4.5	77.4	116.0#
121	0.0	24.4	36.6#

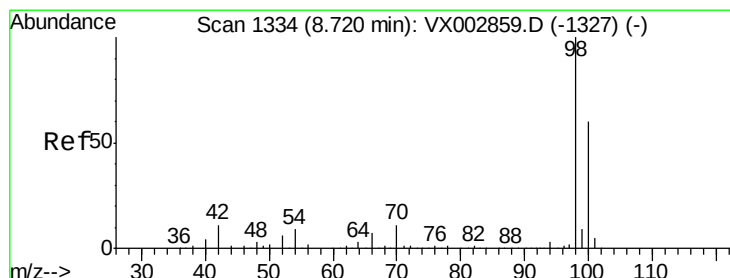
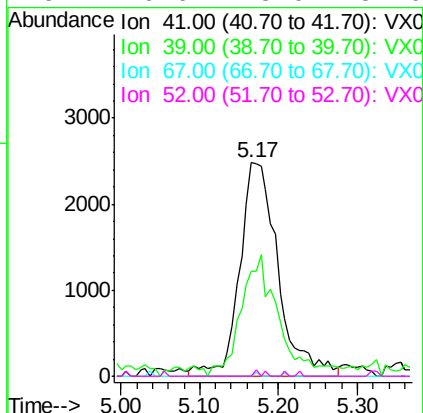
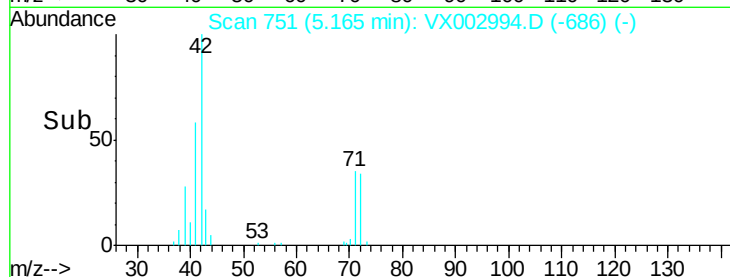
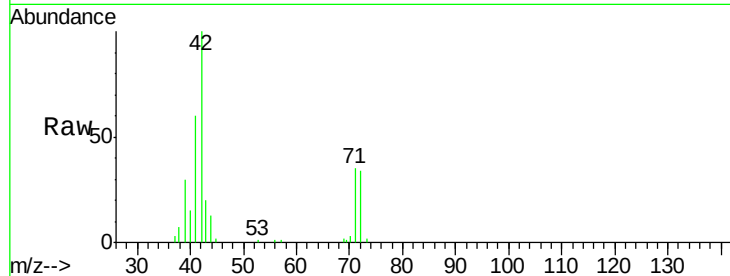




#41
Methacrylonitrile
Concen: 3.31 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.10 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

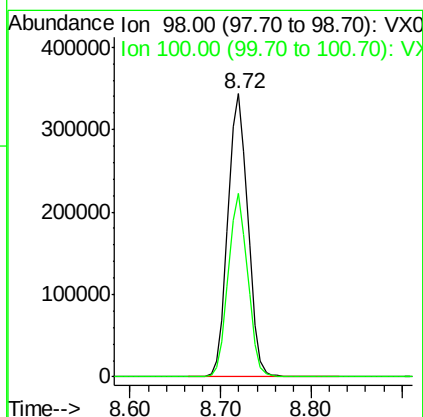
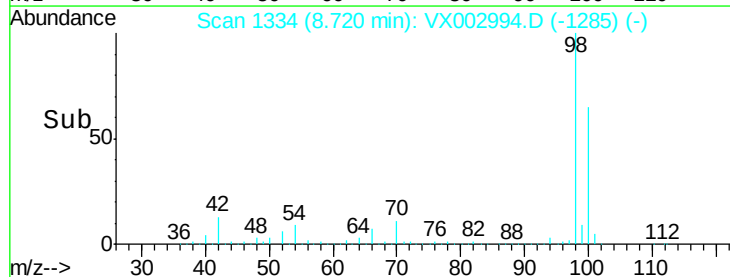
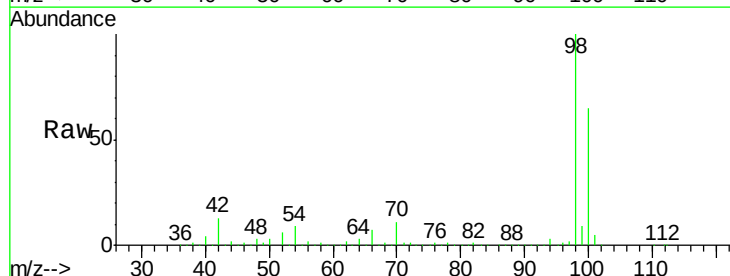
Instrument :
MSVOA_X
ClientSampleId :
1332

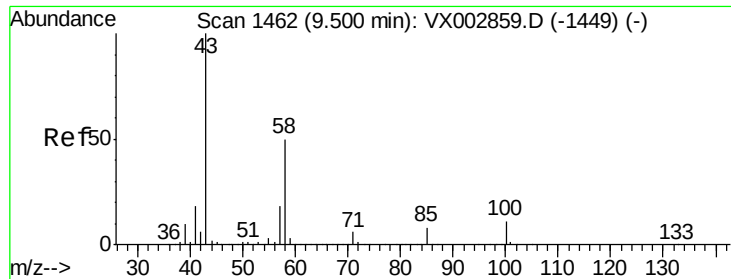
Tot Ion: 41 Resp: 8437
Ion Ratio Lower Upper
41 100
39 53.5 45.8 68.6
67 0.2 51.3 76.9#
52 0.6 23.0 34.6#



#50
Toluene-d8
Concen: 48.80 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

Tgt Ion: 98 Resp: 528662
Ion Ratio Lower Upper
98 100
100 63.0 50.9 76.3

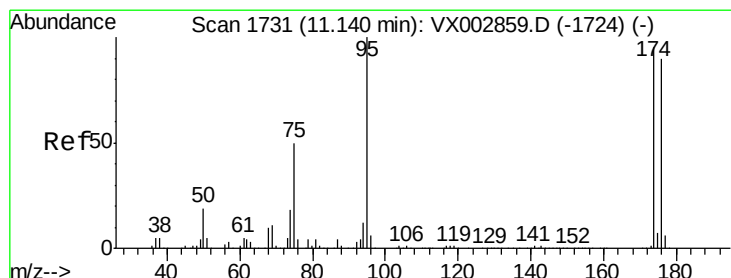
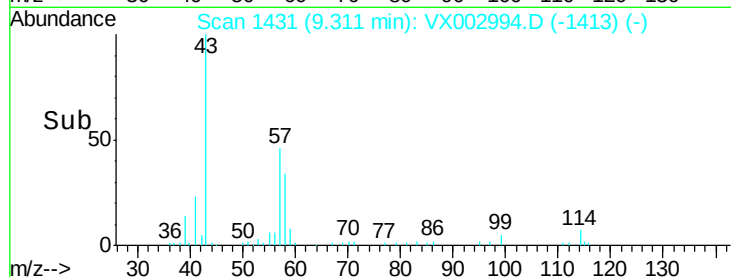
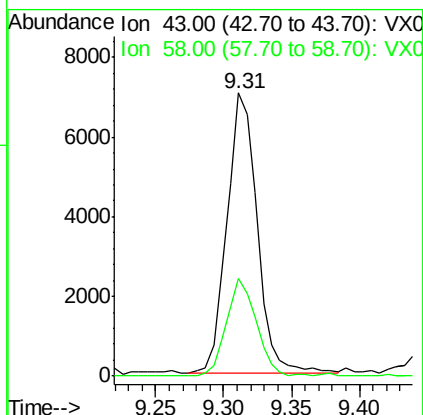
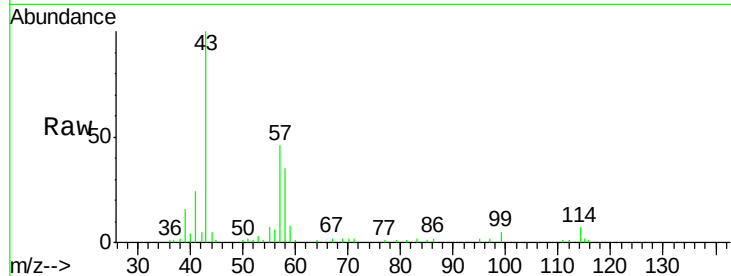




#59
2-Hexanone
Concen: 3.05 ug/l
RT: 9.31 min Scan# 1431
Delta R.T. -0.19 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

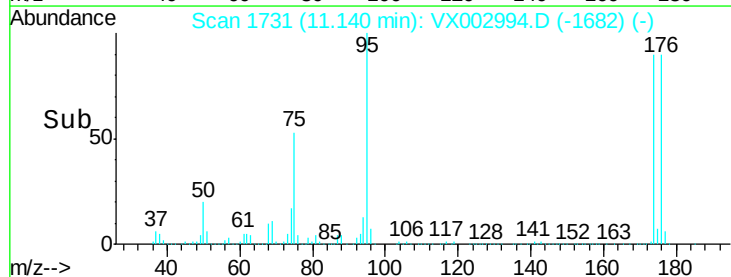
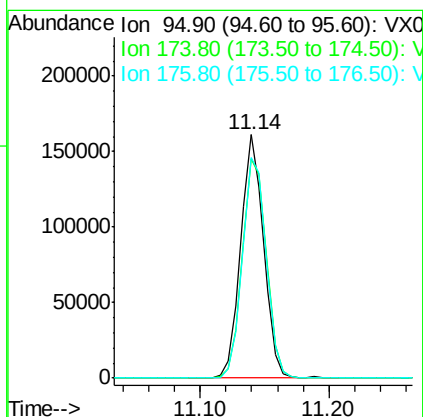
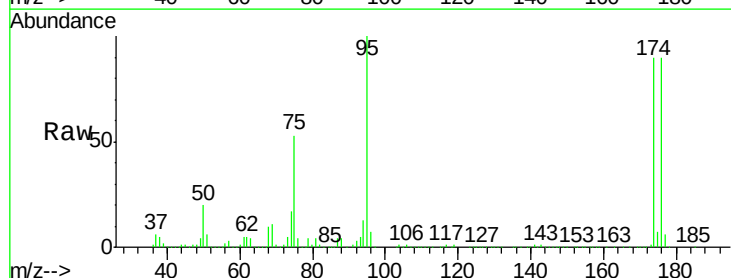
Instrument :
MSVOA_X
ClientSampleId :
1332

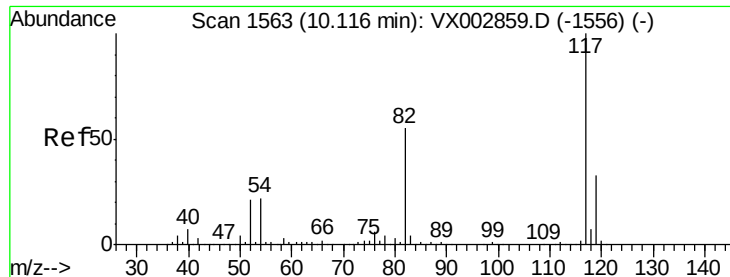
Tot Ion: 43 Resp: 10752
Ion Ratio Lower Upper
43 100
58 34.9 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 47.27 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

Tgt Ion: 95 Resp: 197483
Ion Ratio Lower Upper
95 100
174 94.4 0.0 187.4
176 94.0 0.0 181.0

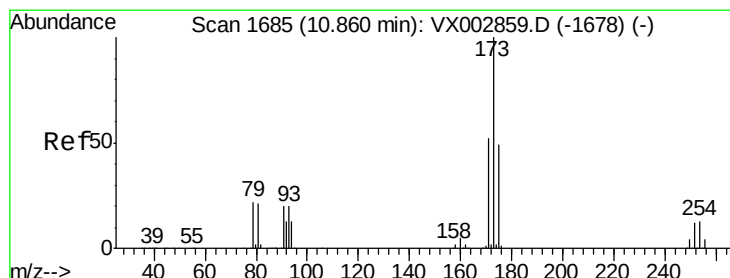
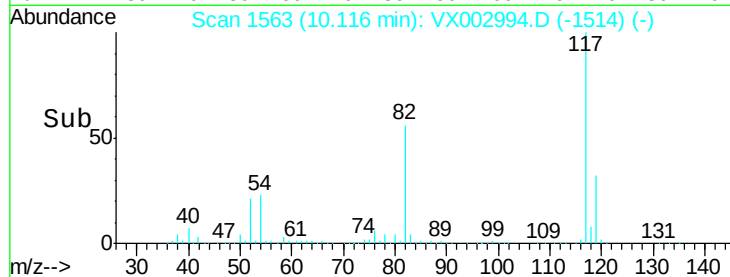
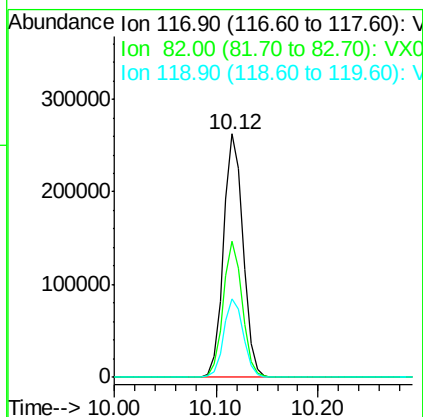
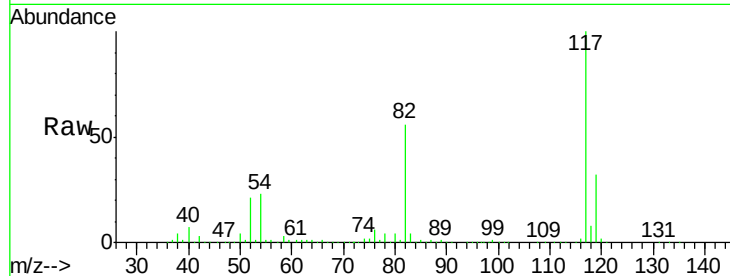




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

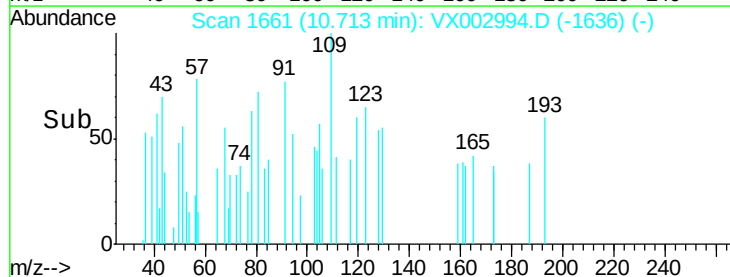
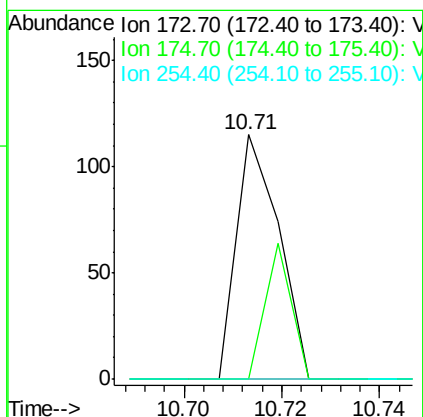
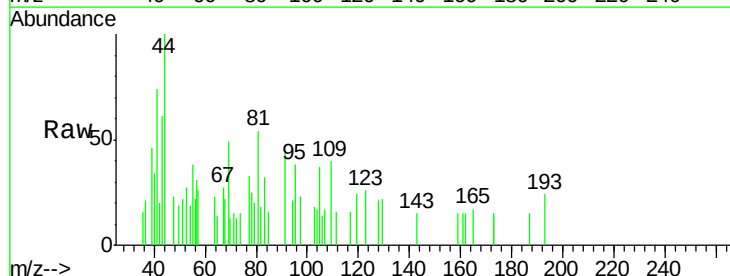
Instrument :
MSVOA_X
ClientSampleId :
1332

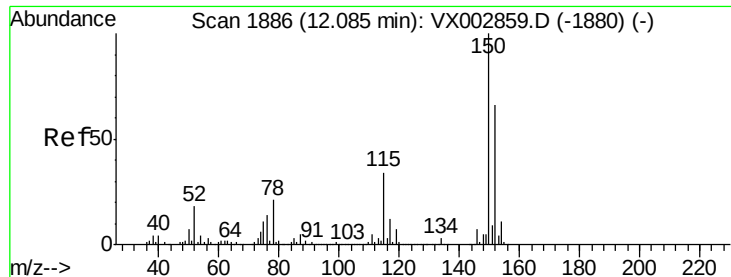
Tot Ion:117 Resp: 349917
Ion Ratio Lower Upper
117 100
82 55.9 45.0 67.4
119 32.4 25.8 38.6



#71
Bromoform
Concen: 3.93 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. -0.15 min
Lab File: VX002994.D
Acq: 28 Jun 2018 19:13

Tgt Ion:173 Resp: 69
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002994.D

Acq: 28 Jun 2018 19:13

Instrument :

MSVOA_X

ClientSampleId :

1332

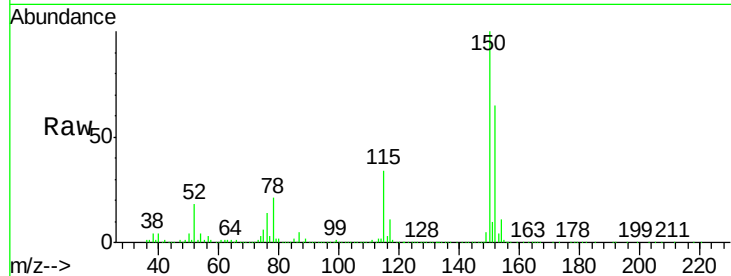
Tot Ion:152 Resp: 212260

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

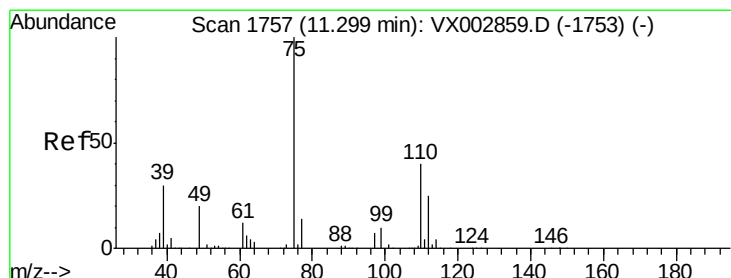
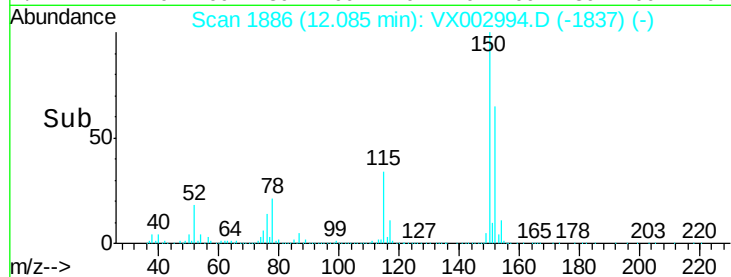
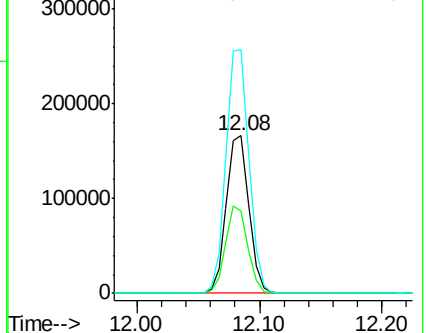
150 156.2 0.0 347.2



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: 26.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002994.D

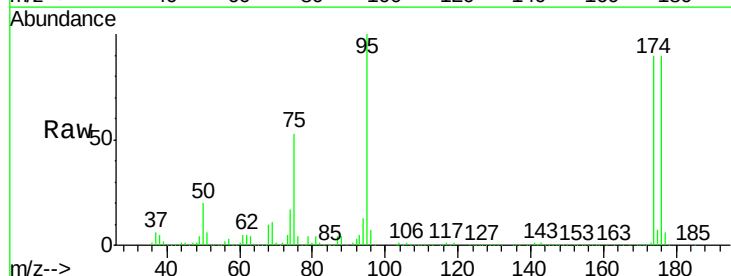
Acq: 28 Jun 2018 19:13

Tgt Ion: 75 Resp: 101811

Ion Ratio Lower Upper

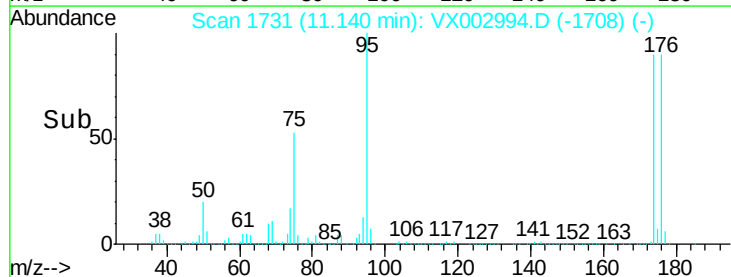
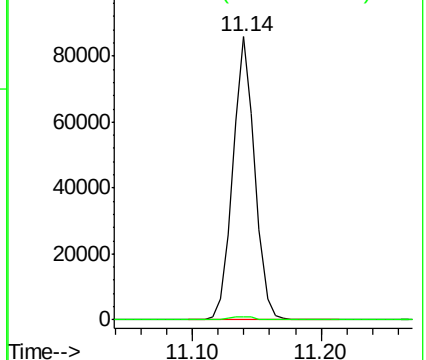
75 100

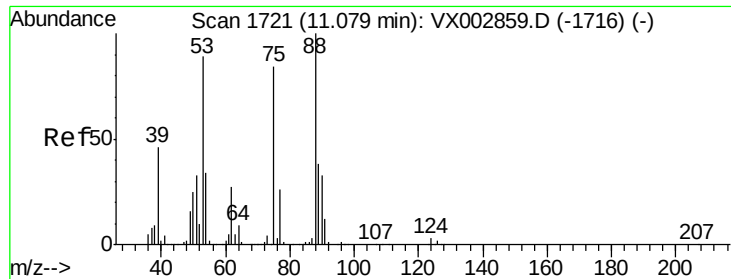
77 1.1 22.8 68.3#



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: 75.03 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. 0.06 min
 Lab File: VX002994.D
 Acq: 28 Jun 2018 19:13

Instrument :
 MSVOA_X
 ClientSampleId :
 1332

Tot Ion: 75 Resp: 101811
 Ion Ratio Lower Upper
 75 100
 53 0.0 86.8 130.2#
 89 0.0 38.2 57.2#

