

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002771.D
 Acq On : 21 Jun 2018 05:11
 Operator : JC/MD
 Sample : PB110408ZHE#10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 05:59:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X061518W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:37:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	218329	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	309435	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	287919	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	162063	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	150773	45.44	ug/l	0.00
Spiked Amount			Recovery	=	90.88%	
35) Dibromofluoromethane	5.51	113	120510	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
50) Toluene-d8	8.72	98	439416	46.86	ug/l	0.00
Spiked Amount			Recovery	=	93.72%	
62) 4-Bromofluorobenzene	11.14	95	154203	43.40	ug/l	0.00
Spiked Amount			Recovery	=	86.80%	

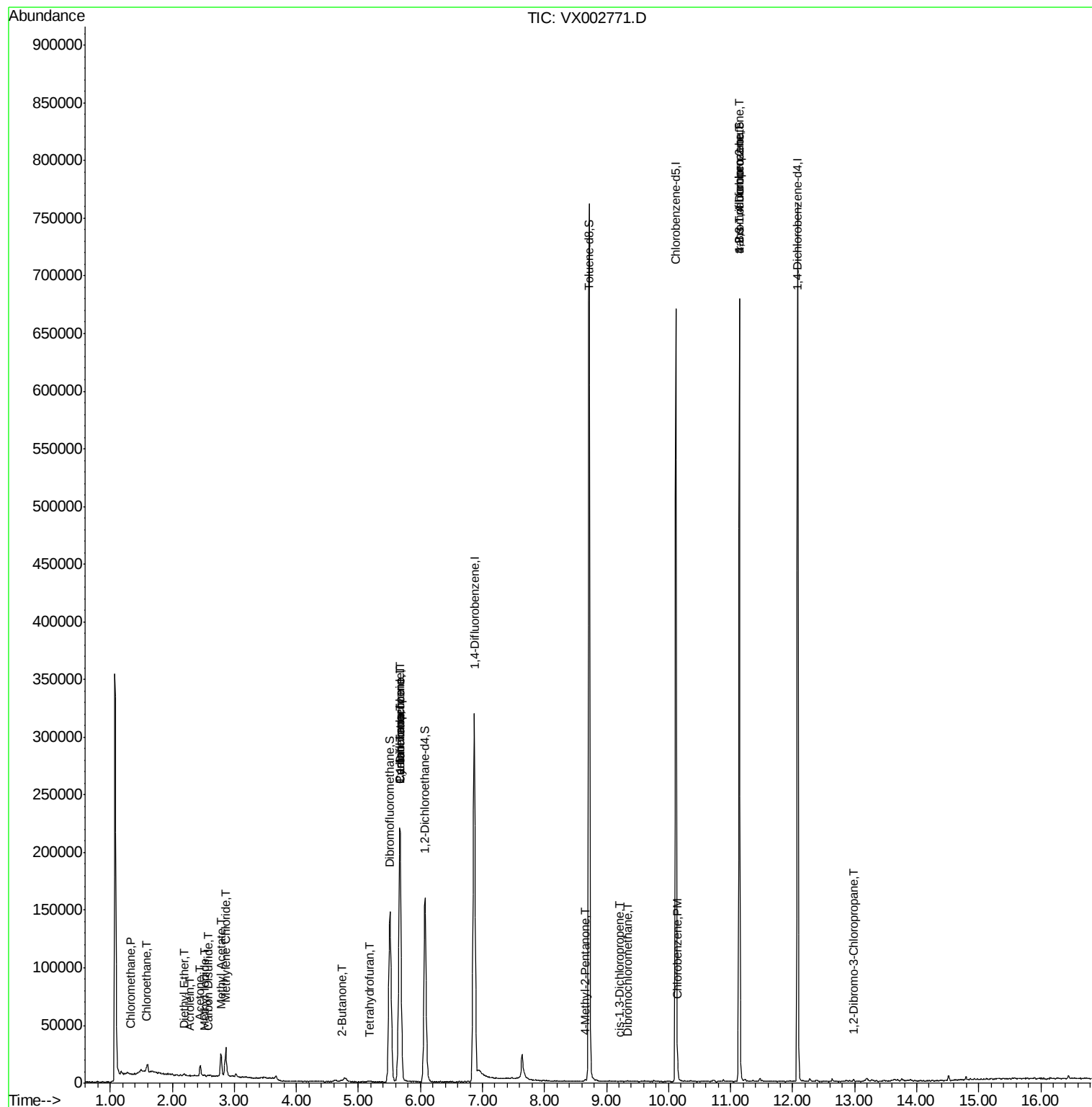
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	602	0.22	ug/l #	51
6) Chloroethane	1.58	64	458	0.24	ug/l #	45
8) Diethyl Ether	2.20	74	518	0.29	ug/l	68
10) Methyl Iodide	2.52	142	713	5.36	ug/l #	87
13) Acrolein	2.29	56	128	7.25	ug/l	99
16) Acetone	2.45	43	11172	7.63	ug/l	97
17) Carbon Disulfide	2.57	76	1229	0.21	ug/l #	68
18) Methyl Acetate	2.78	43	23874	6.12	ug/l	97
20) Methylene Chloride	2.86	84	10823	3.61	ug/l	98
25) 2-Butanone	4.72	43	1762	0.92	ug/l	99
29) Tetrahydrofuran	5.18	42	546	0.43	ug/l #	83
31) Cyclohexane	5.67	56	4728	1.21	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	15230	4.63	ug/l #	50
38) Carbon Tetrachloride	5.67	117	20586	6.29	ug/l #	17
51) 4-Methyl-2-Pentanone	8.66	43	1038	0.26	ug/l	99
54) cis-1,3-Dichloropropene	9.21	75	22	3.22	ug/l #	32
60) Dibromochloromethane	9.34	129	94	3.79	ug/l #	11
65) Chlorobenzene	10.15	112	3447	0.49	ug/l	90
76) 1,2,3-Trichloropropane	11.14	75	80383	26.29	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	80383	81.25	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	12.98	75	297	0.44	ug/l #	1

(#) = 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. -0.01 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

Instrument :

MSVOA_X

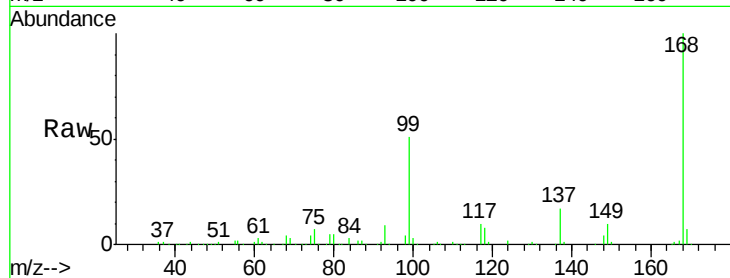
ClientSampleId :

Tot Ion:168 Resp: 218329

Ion Ratio Lower Upper

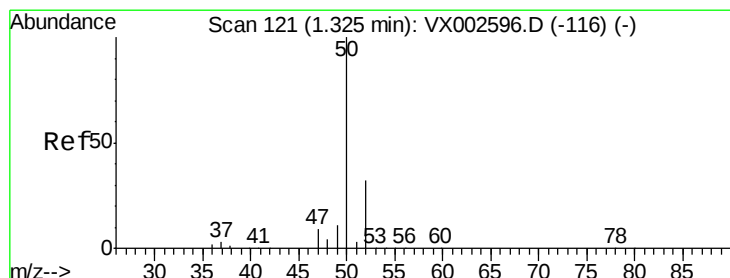
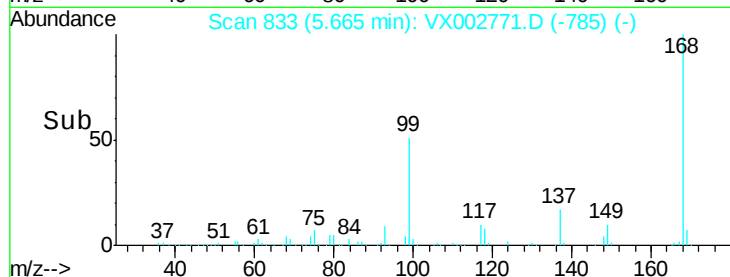
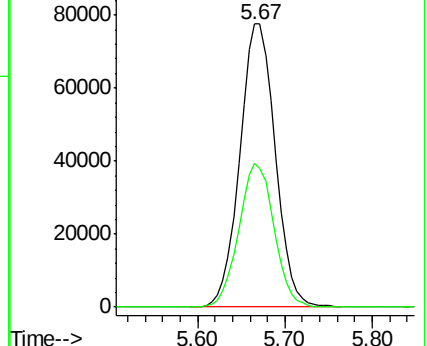
168 100

99 50.8 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX002771.D

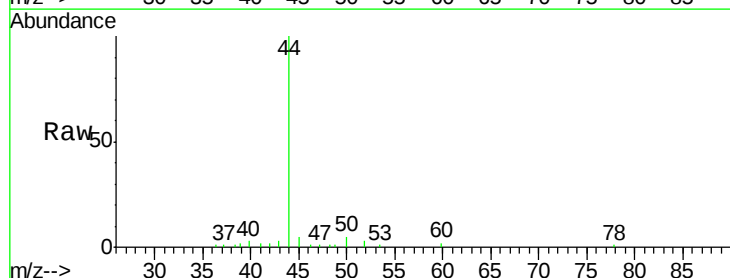
Acq: 21 Jun 2018 05:11

Tgt Ion: 50 Resp: 602

Ion Ratio Lower Upper

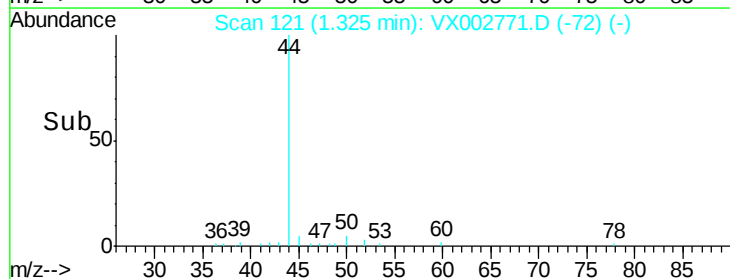
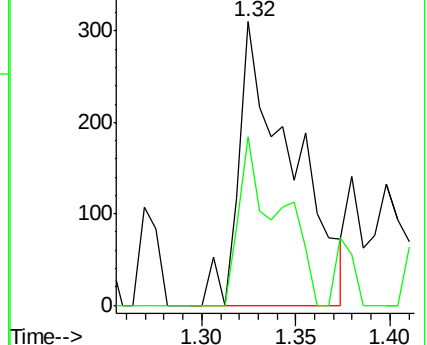
50 100

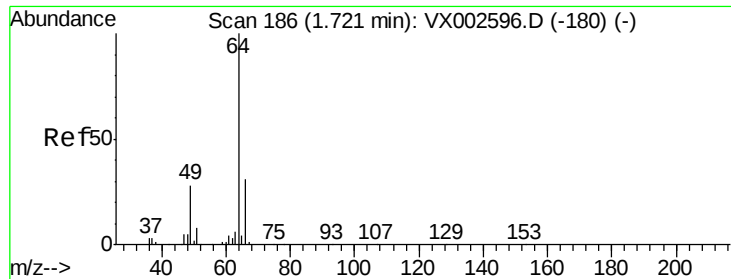
52 59.7 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#6

Chloroethane

Concen: 0.24 ug/l

RT: 1.58 min Scan# 163

Delta R.T. -0.14 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

Instrument :

MSVOA_X

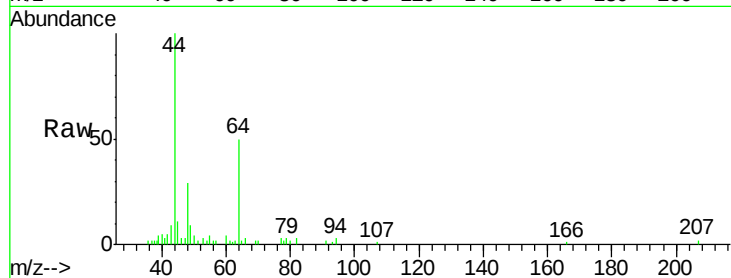
ClientSampleId :

Tot Ion: 64 Resp: 458

Ion Ratio Lower Upper

64 100

66 1.4 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

2500

2000

1500

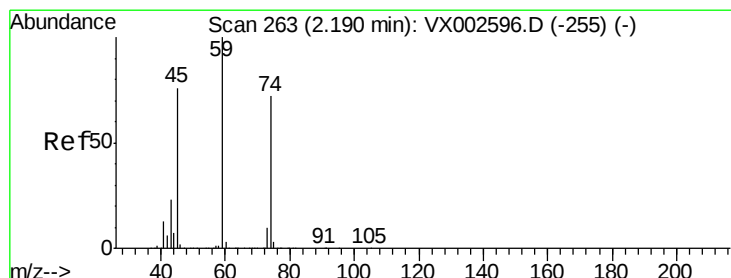
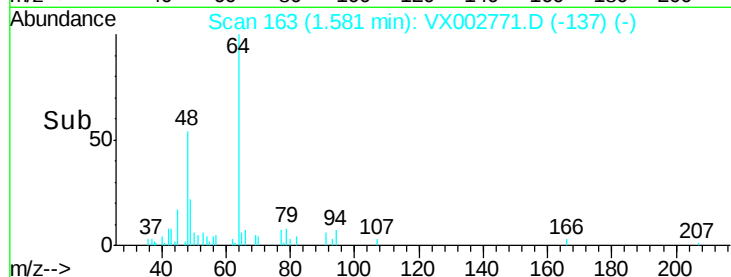
1000

500

0

Time-->

1.56 1.57 1.58 1.59



#8

Diethyl Ether

Concen: 0.29 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002771.D

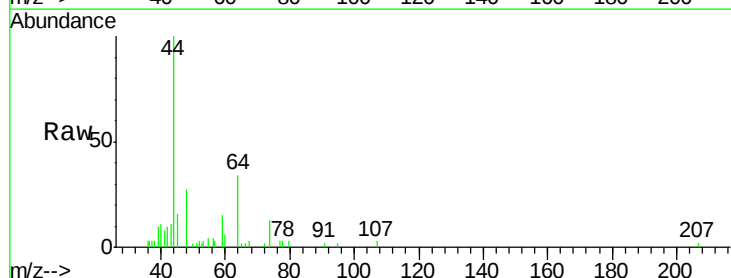
Acq: 21 Jun 2018 05:11

Tgt Ion: 74 Resp: 518

Ion Ratio Lower Upper

74 100

45 139.6 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

400

300

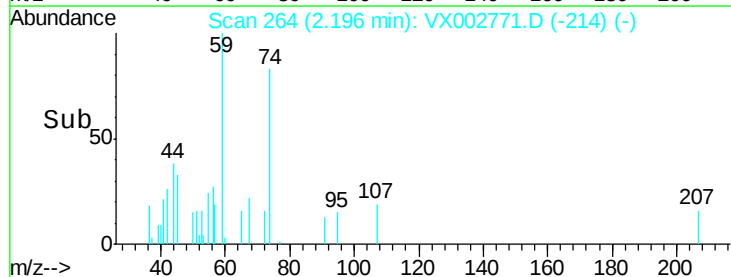
200

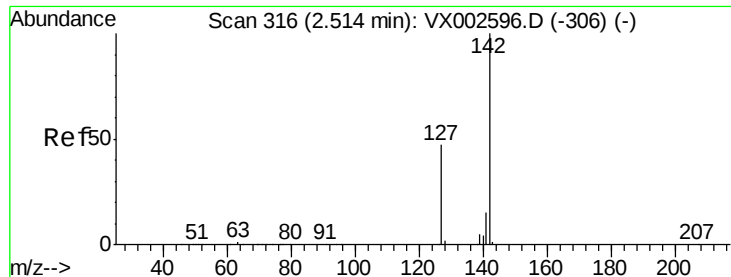
100

0

Time-->

2.15 2.20 2.25

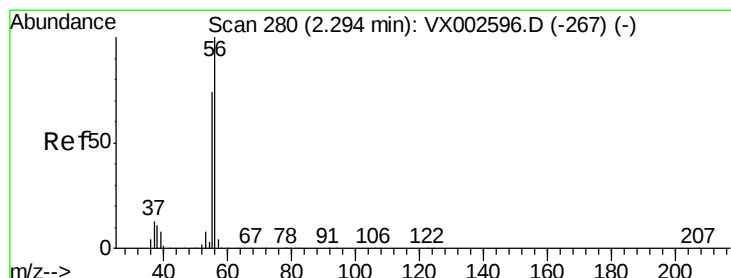
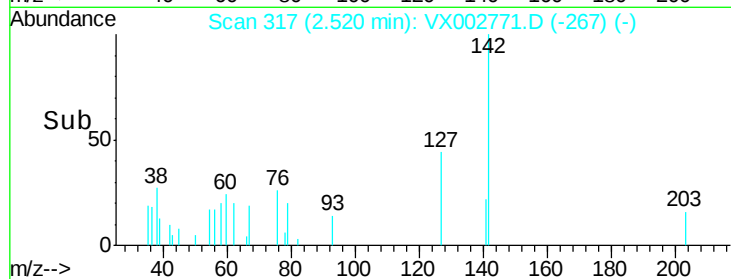
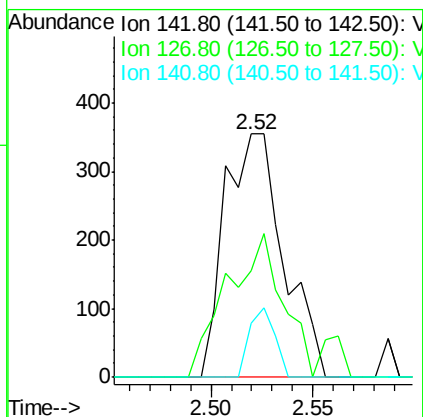
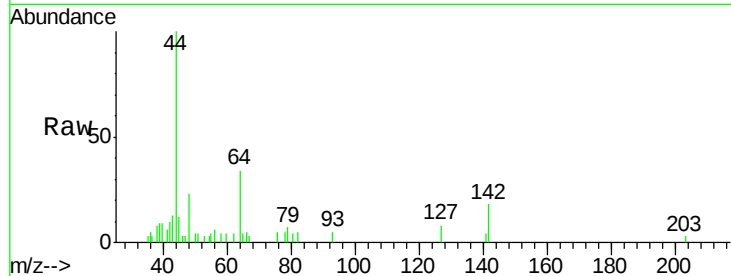




#10
Methvl Iodide
Concen: 5.36 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002771.D
Acq: 21 Jun 2018 05:11

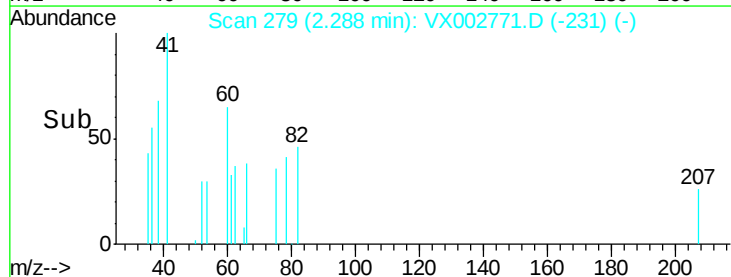
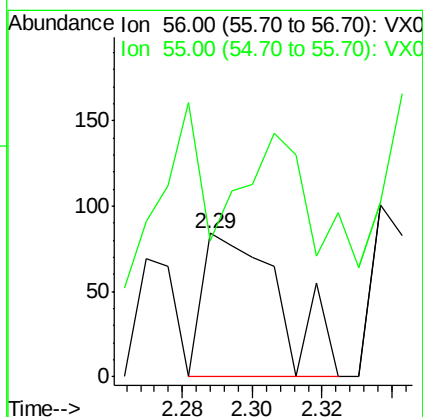
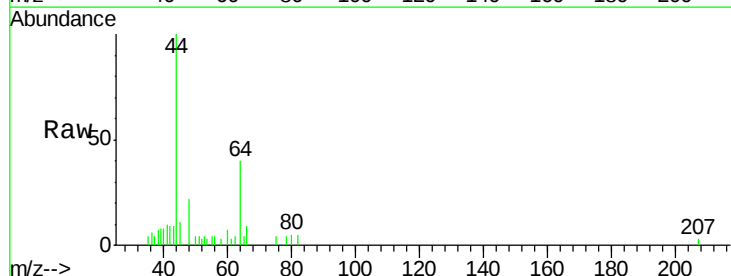
Instrument :
MSVOA_X
ClientSampled :

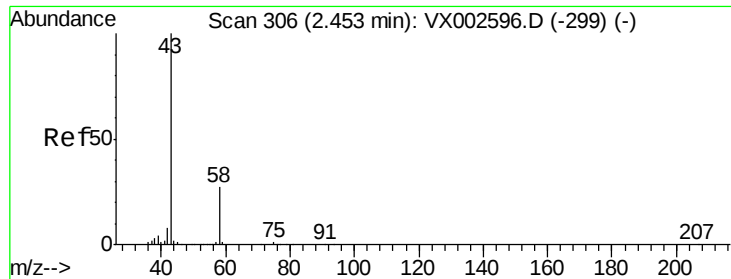
Tot Ion:142 Resp: 713
Ion Ratio Lower Upper
142 100
127 56.0 36.6 55.0#
141 12.3 11.3 16.9



#13
Acrolein
Concen: 7.25 ug/l
RT: 2.29 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX002771.D
Acq: 21 Jun 2018 05:11

Tgt Ion: 56 Resp: 128
Ion Ratio Lower Upper
56 100
55 70.3 57.0 85.4





#16

Acetone

Concen: 7.63 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

Instrument :

MSVOA_X

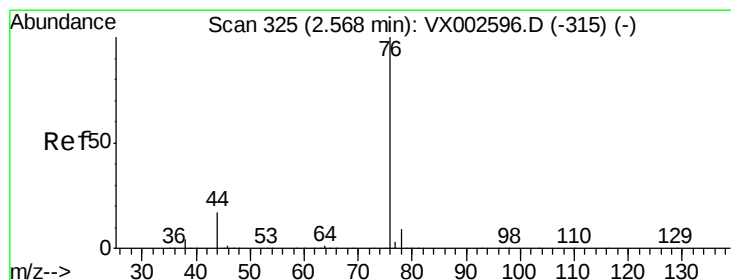
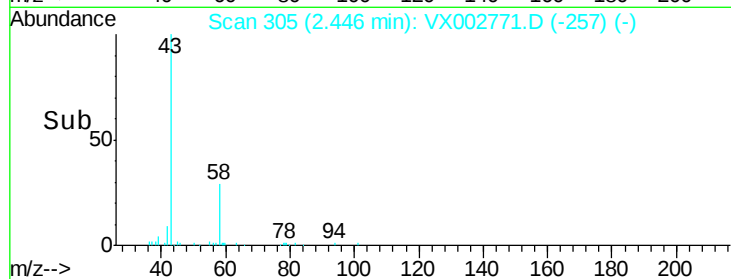
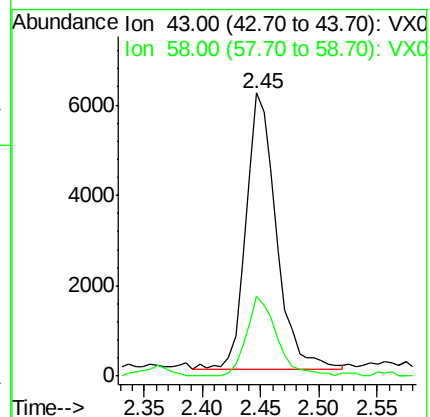
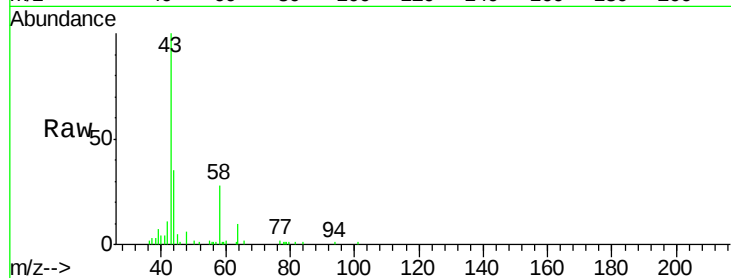
ClientSampled :

Tot Ion: 43 Resp: 11172

Ion Ratio Lower Upper

43 100

58 29.0 22.1 33.1



#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002771.D

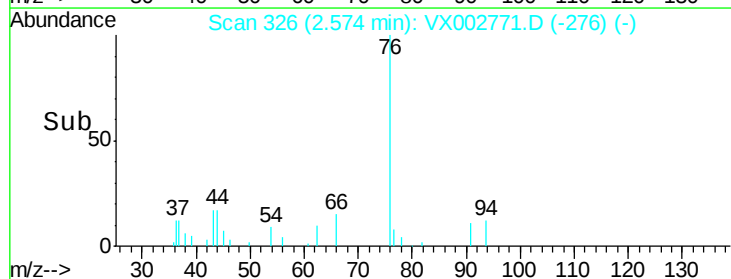
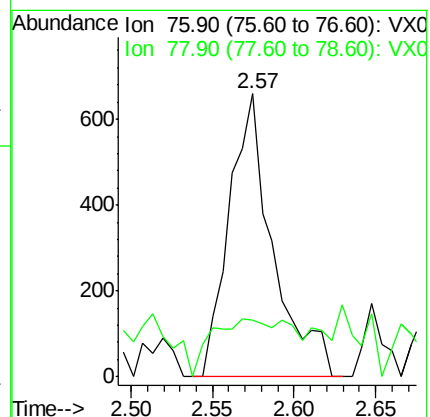
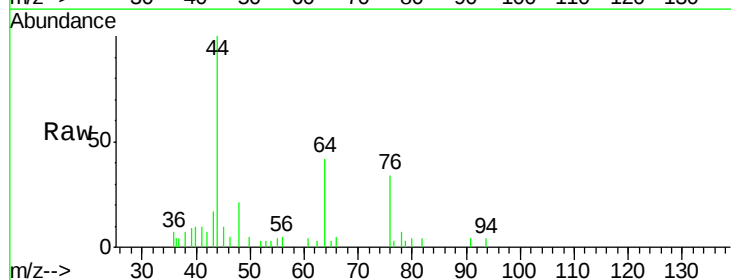
Acq: 21 Jun 2018 05:11

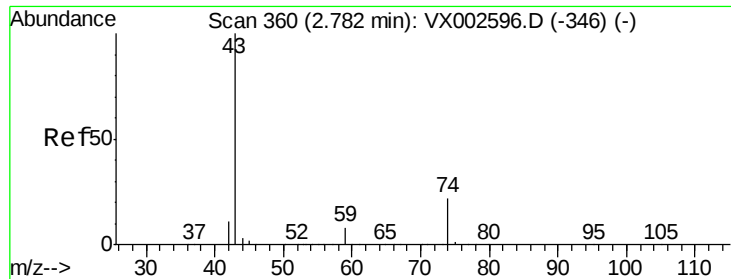
Tgt Ion: 76 Resp: 1229

Ion Ratio Lower Upper

76 100

78 20.0 6.9 10.3#

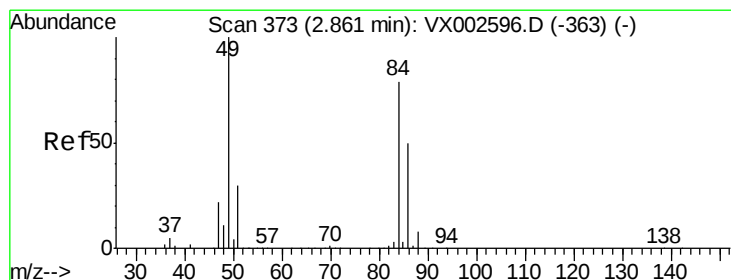
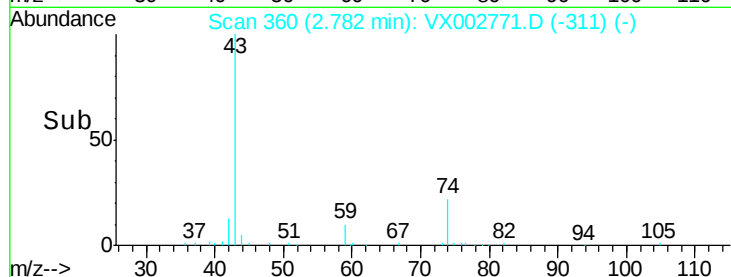
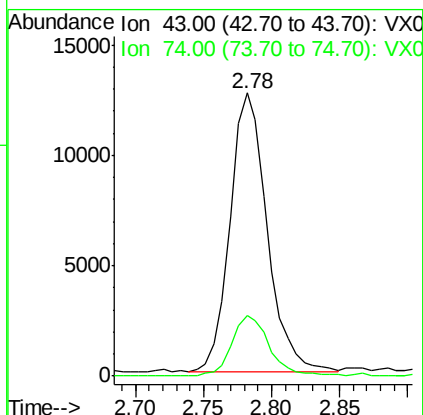
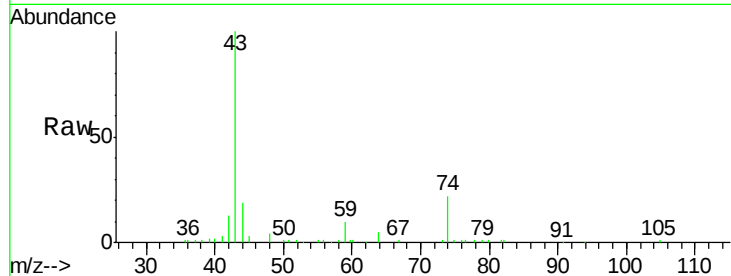




#18
Methvl Acetate
Concen: 6.12 ug/l
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002771.D
Acq: 21 Jun 2018 05:11

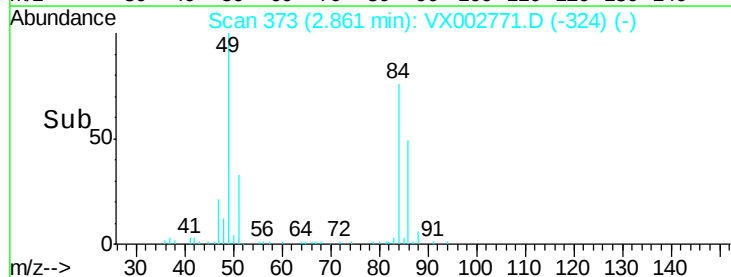
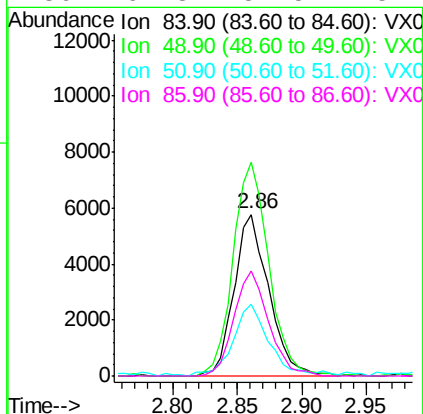
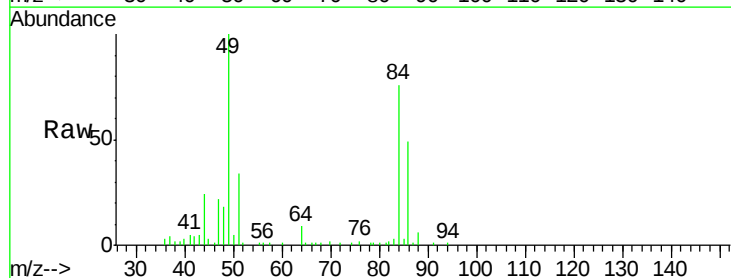
Instrument :
MSVOA_X
ClientSampled :

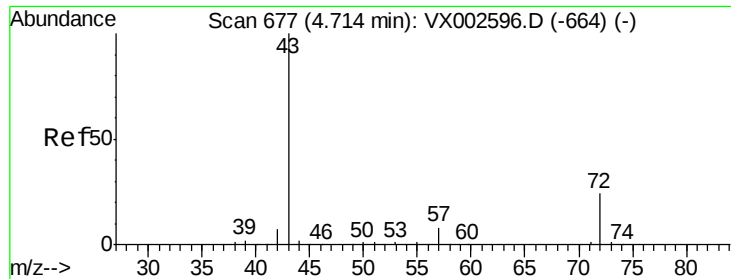
Tot Ion: 43 Resp: 23874
Ion Ratio Lower Upper
43 100
74 22.2 16.7 25.1



#20
Methylene Chloride
Concen: 3.61 ug/l
RT: 2.86 min Scan# 373
Delta R.T. -0.00 min
Lab File: VX002771.D
Acq: 21 Jun 2018 05:11

Tgt Ion: 84 Resp: 10823
Ion Ratio Lower Upper
84 100
49 132.0 107.8 161.6
51 44.5 32.8 49.2
86 64.8 52.5 78.7





#25

2-Butanone

Concen: 0.92 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

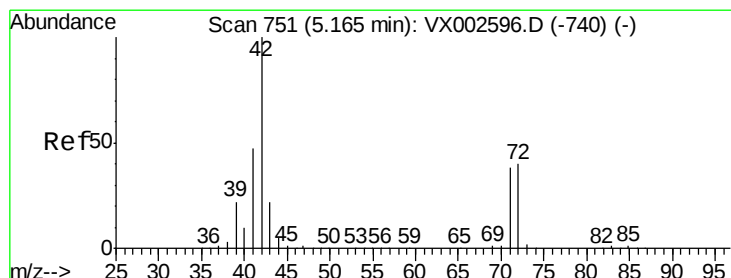
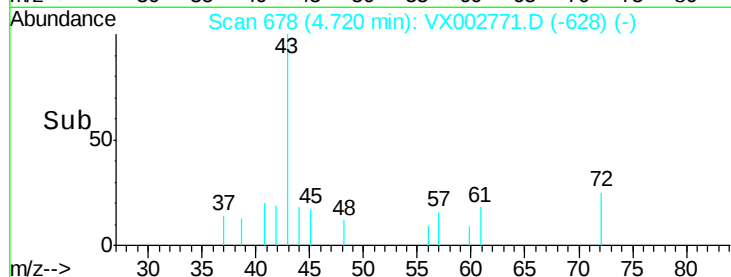
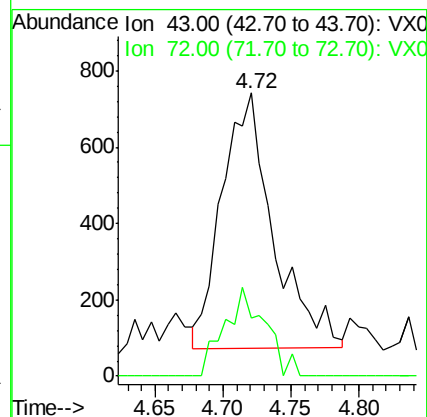
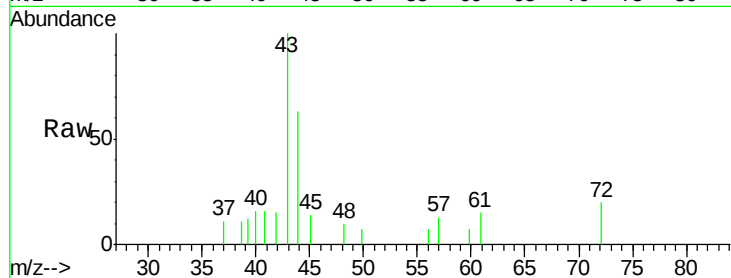
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 43 Resp: 1762

Ion Ratio Lower Upper

43 100

72 23.4 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.43 ug/l

RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

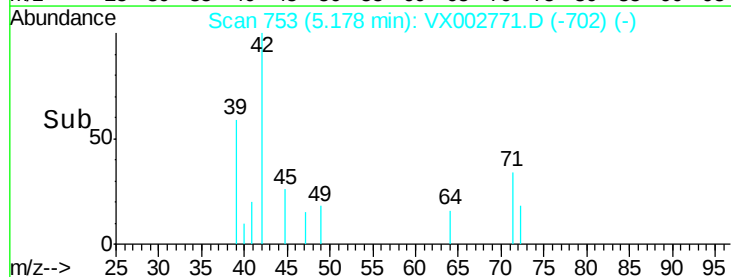
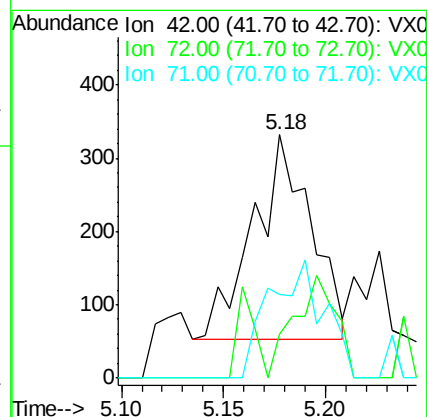
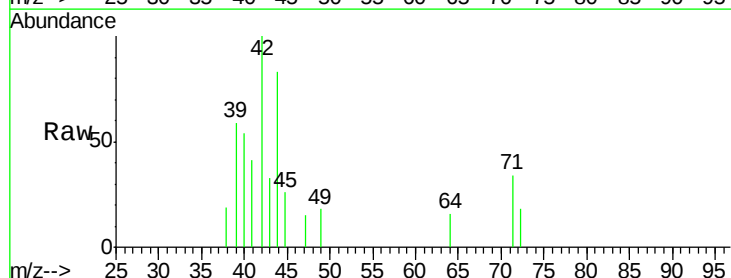
Tgt Ion: 42 Resp: 546

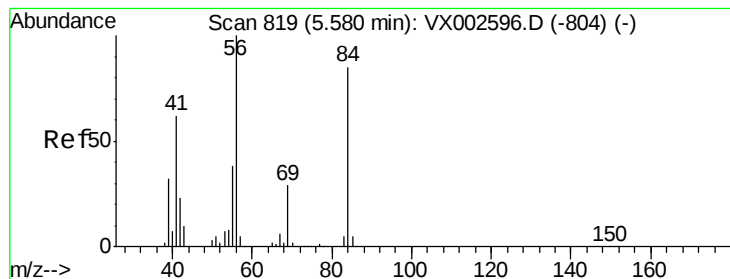
Ion Ratio Lower Upper

42 100

72 36.8 32.0 48.0

71 55.1 30.1 45.1#





#31

Cyclohexane

Concen: 1.21 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

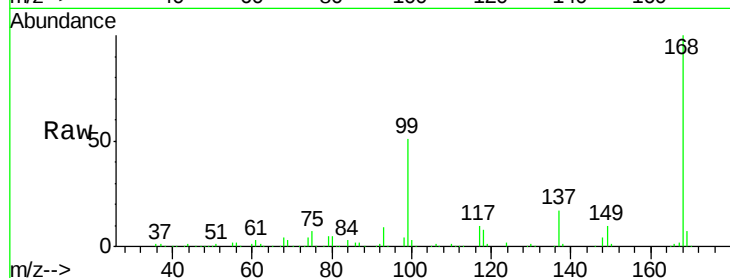
Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

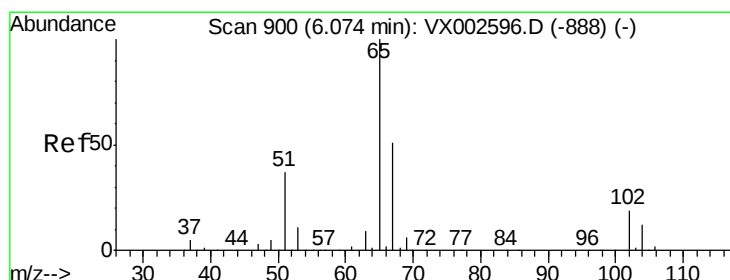
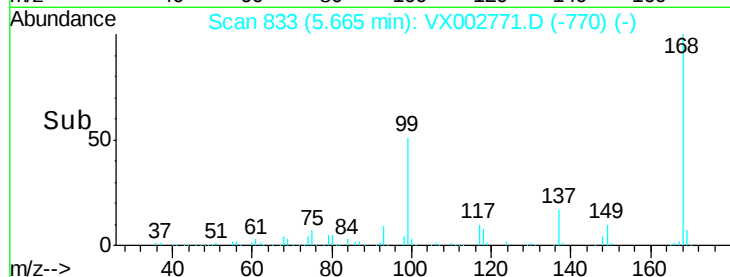
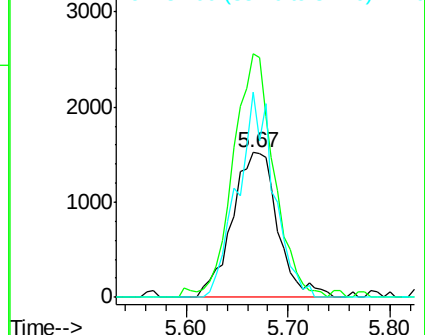
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 4728

Ion	Ratio	Lower	Upper
56	100		
69	164.0	23.7	35.5#
84	142.3	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: 45.44 ug/l

RT: 6.07 min Scan# 900

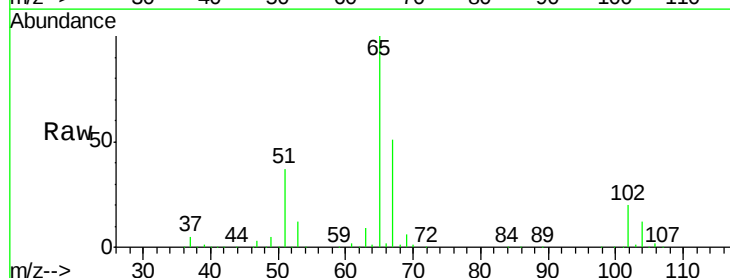
Delta R.T. 0.00 min

Lab File: VX002771.D

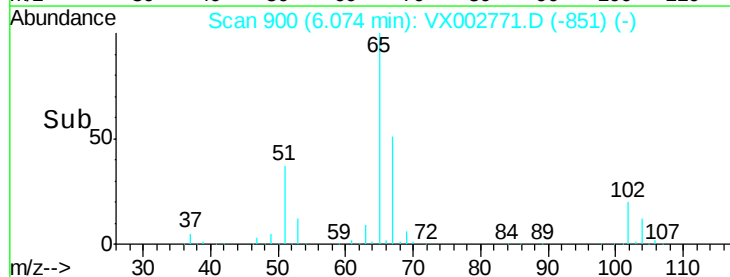
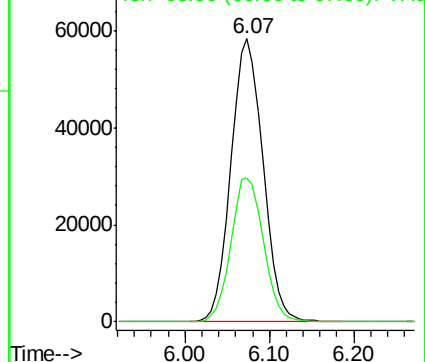
Acq: 21 Jun 2018 05:11

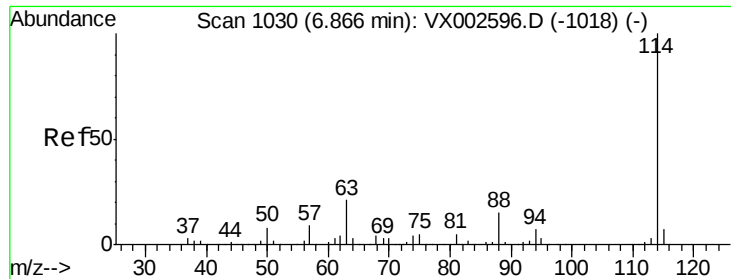
Tgt Ion: 65 Resp: 150773

Ion	Ratio	Lower	Upper
65	100		
67	51.6	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: VX002771.D

Acq: 21 Jun 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

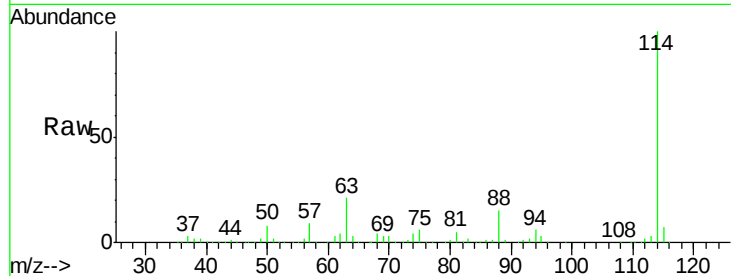
Tot Ion:114 Resp: 309435

Ion Ratio Lower Upper

114 100

63 20.5 0.0 41.4

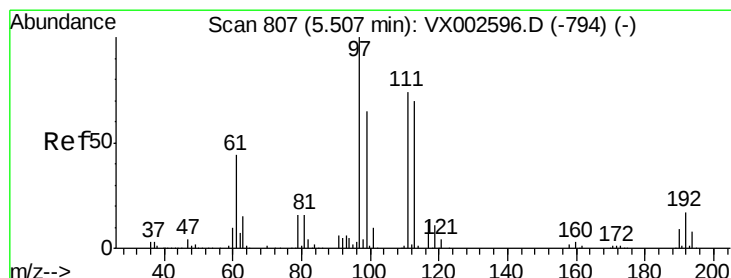
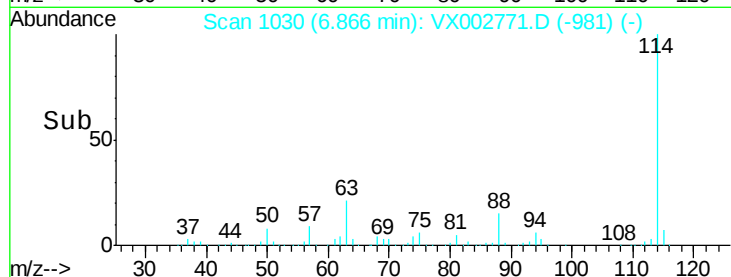
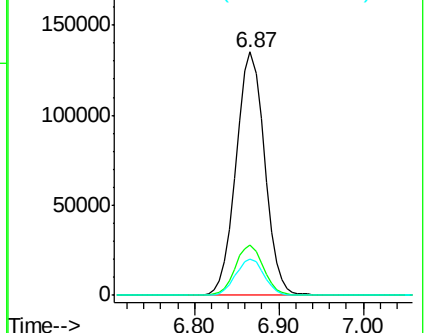
88 14.8 0.0 30.0



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: 48.80 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

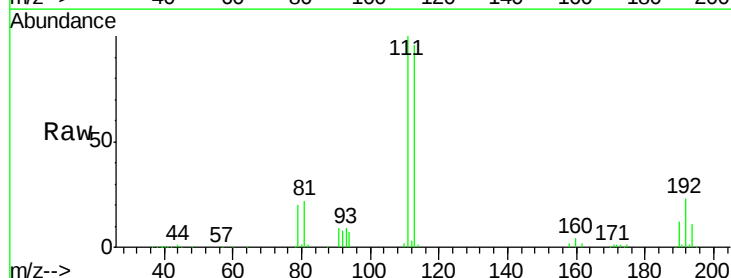
Tgt Ion:113 Resp: 120510

Ion Ratio Lower Upper

113 100

111 102.4 81.4 122.0

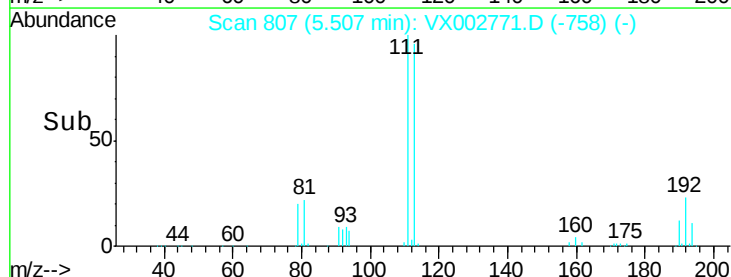
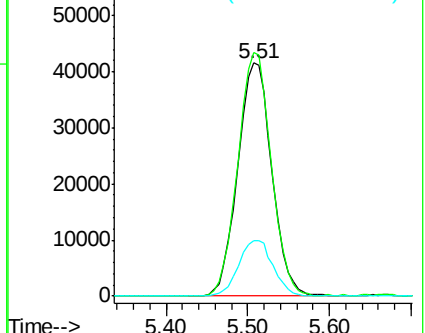
192 24.2 19.1 28.7

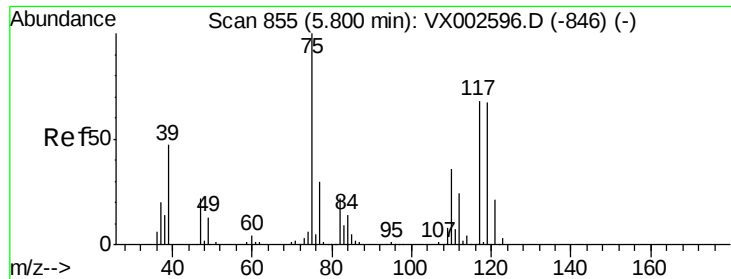


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

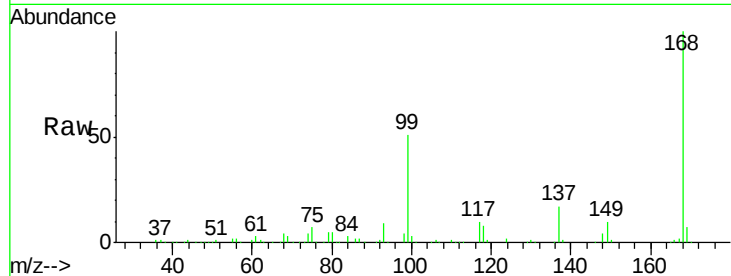




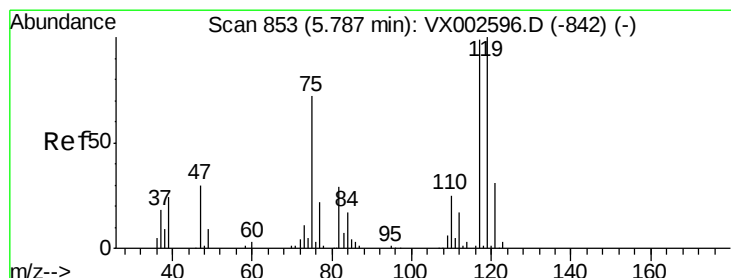
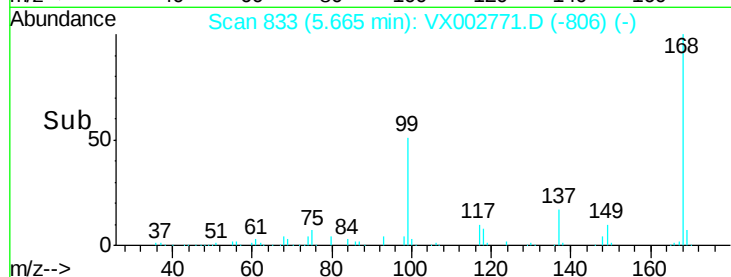
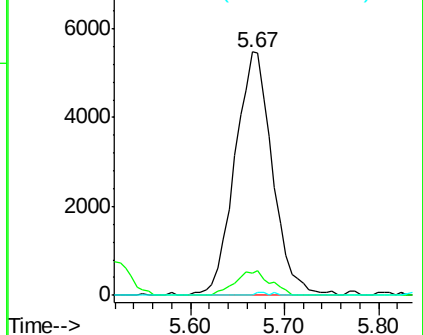
#36
 1,1-Dichloropropene
 Concen: 4.63 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002771.D
 Acq: 21 Jun 2018 05:11

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	18.1	54.4#
77	0.0	24.3	36.5#

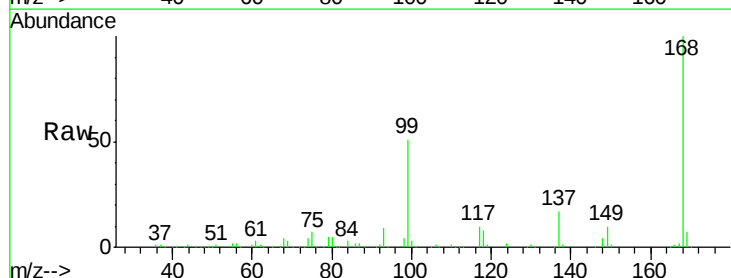


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

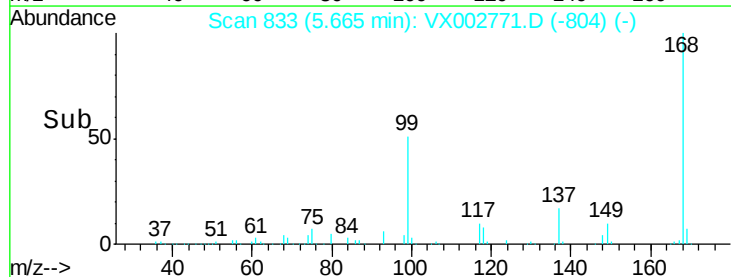
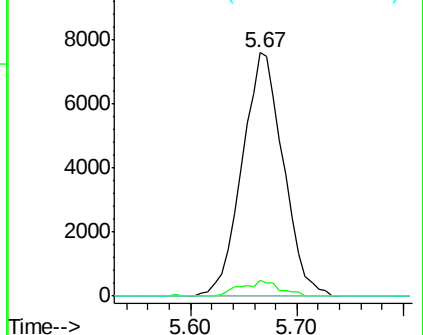


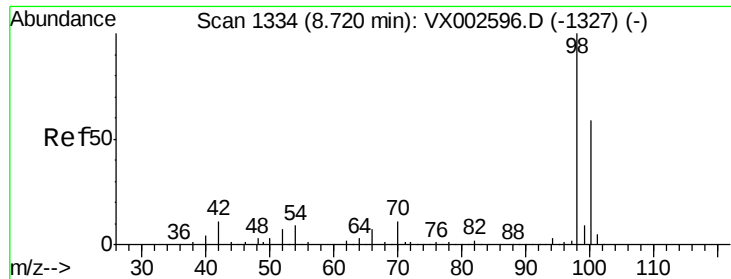
#38
 Carbon Tetrachloride
 Concen: 6.29 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002771.D
 Acq: 21 Jun 2018 05:11

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	77.4	116.0#
121	0.0	24.4	36.6#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

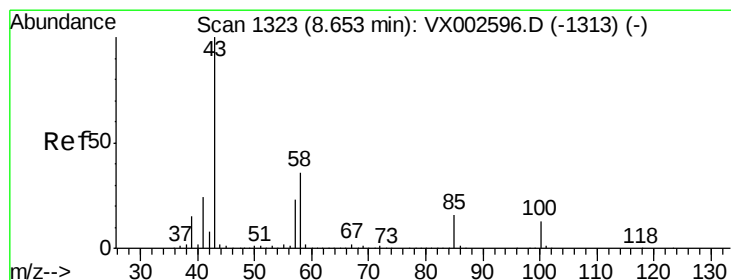
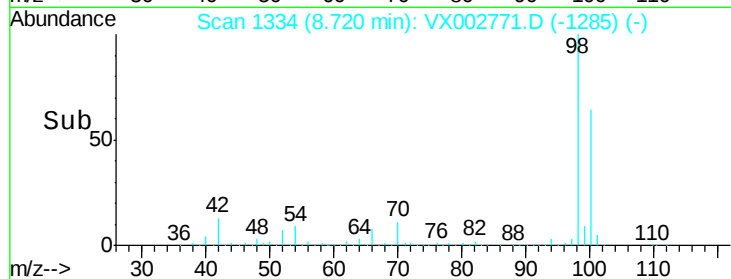
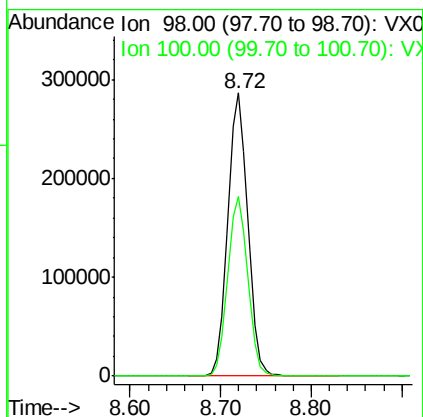
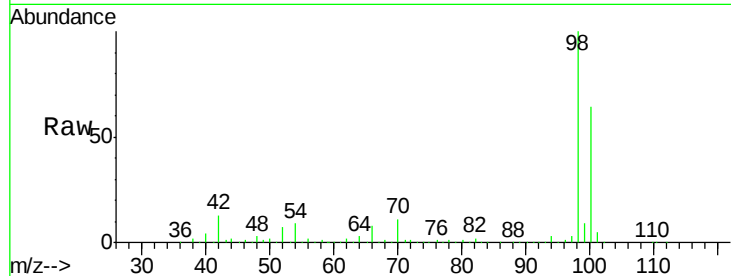




#50
Toluene-d8
Concen: 46.86 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002771.D
Acq: 21 Jun 2018 05:11

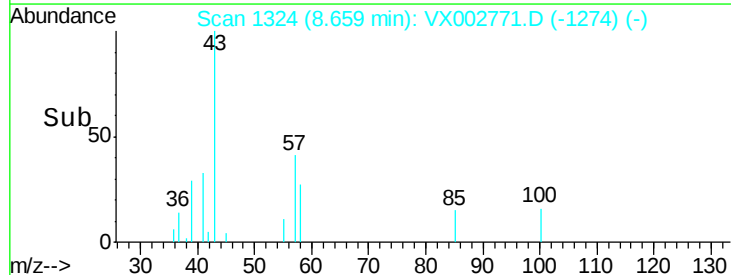
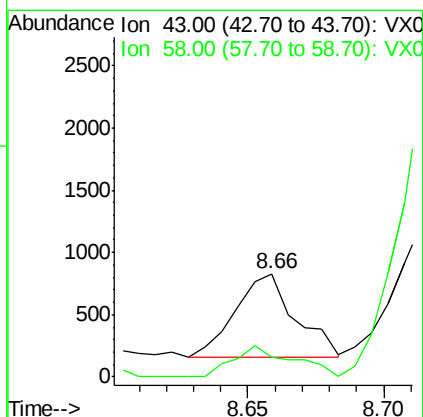
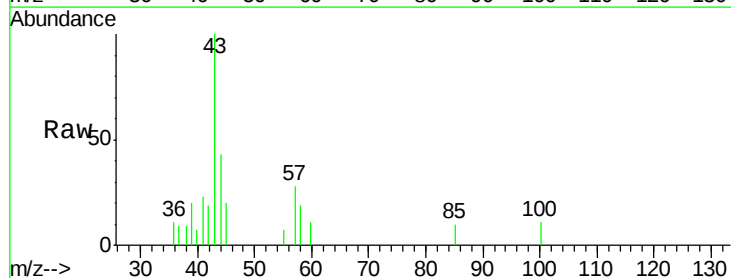
Instrument :
MSVOA_X
ClientSampleId :

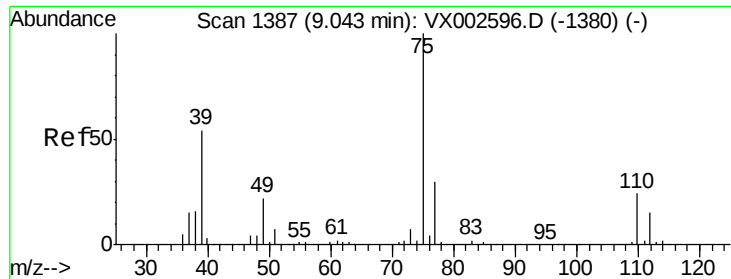
Tot Ion: 98 Resp: 439416
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.26 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002771.D
Acq: 21 Jun 2018 05:11

Tgt Ion: 43 Resp: 1038
Ion Ratio Lower Upper
43 100
58 36.4 28.6 42.8

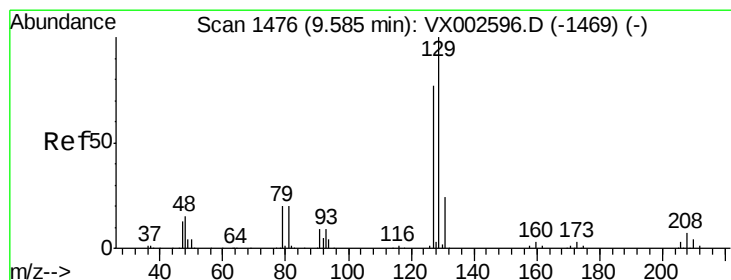
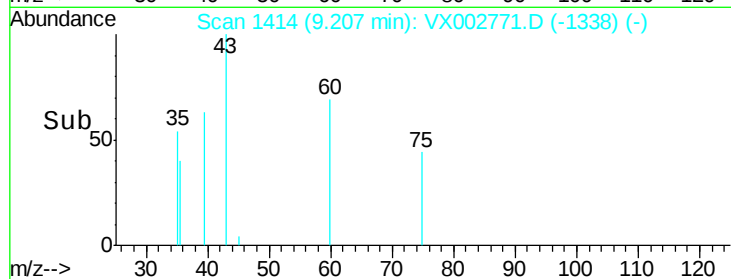
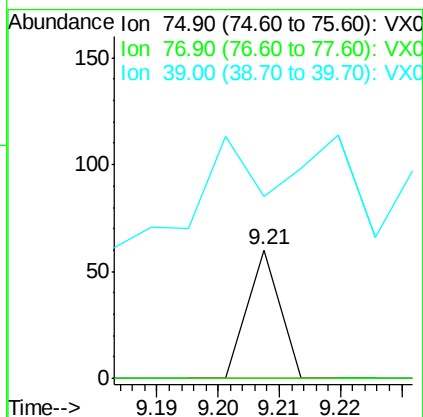
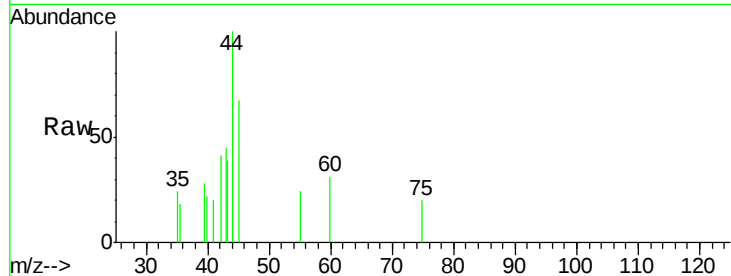




#54
 cis-1,3-Dichloropropene
 Concen: 3.22 ug/l
 RT: 9.21 min Scan# 1414
 Delta R.T. 0.17 min
 Lab File: VX002771.D
 Acq: 21 Jun 2018 05:11

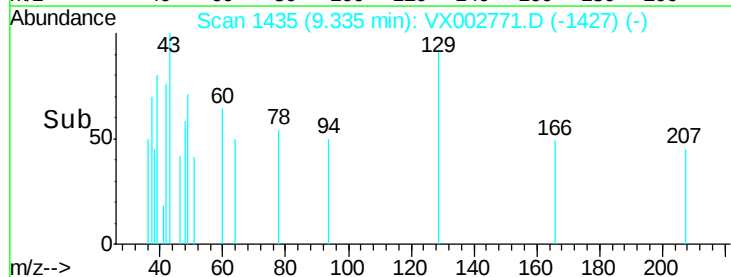
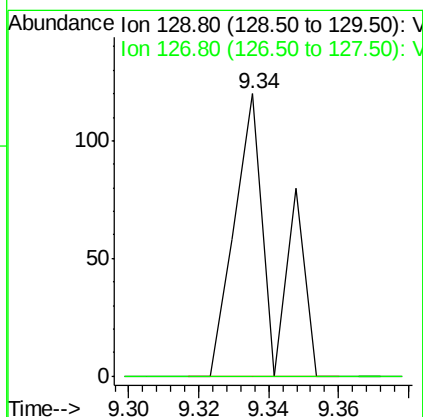
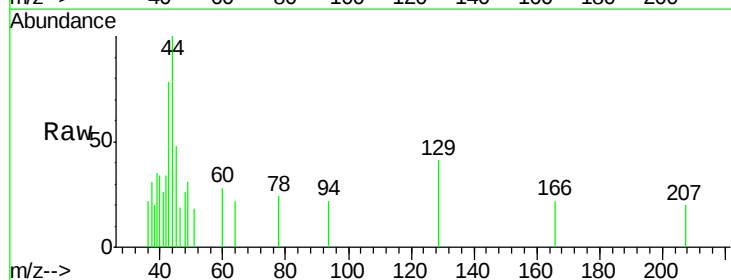
Instrument :
 MSVOA_X
 ClientSampled :

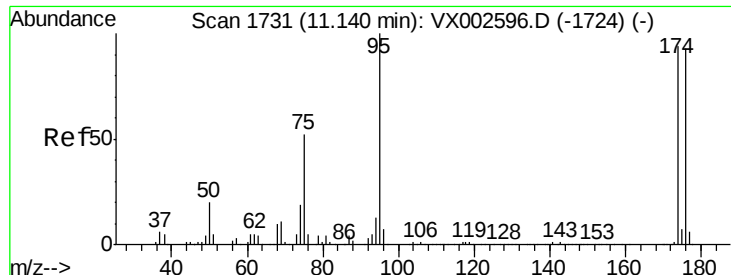
Tot Ion: 75 Resp: 22
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 0.0 42.4 63.6#



#60
 Dibromochloromethane
 Concen: 3.79 ug/l
 RT: 9.34 min Scan# 1435
 Delta R.T. -0.25 min
 Lab File: VX002771.D
 Acq: 21 Jun 2018 05:11

Tgt Ion: 129 Resp: 94
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.3#

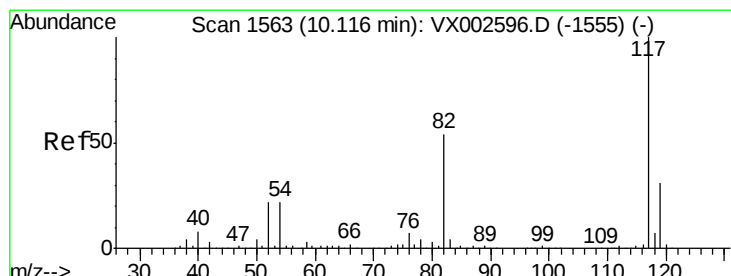
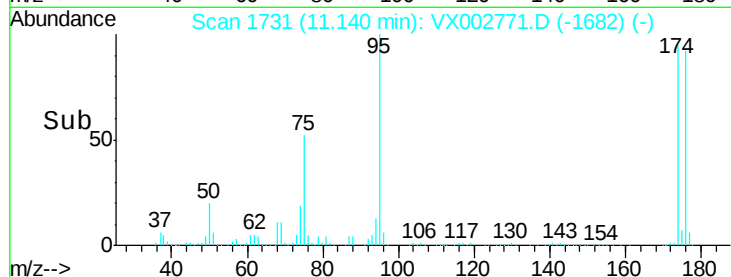
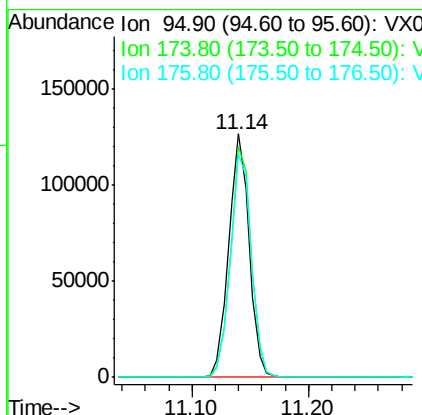
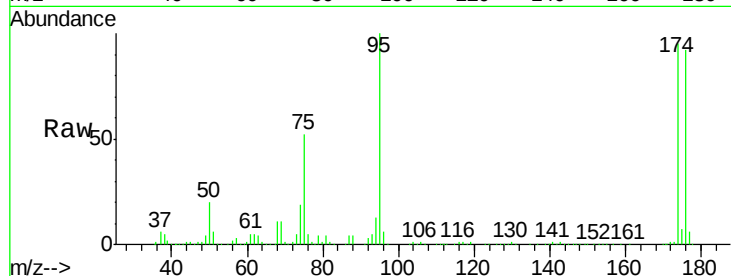




#62
4-Bromofluorobenzene
Concen: 43.40 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002771.D
Acq: 21 Jun 2018 05:11

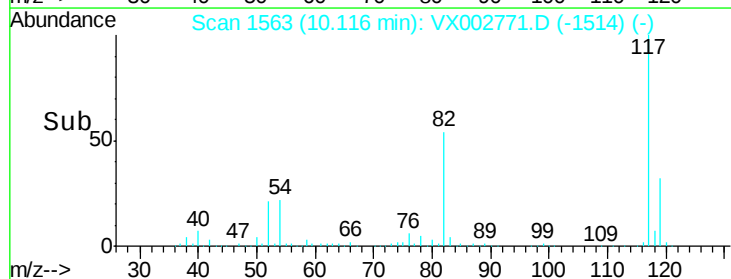
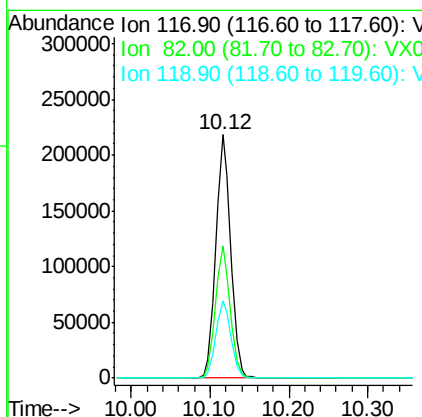
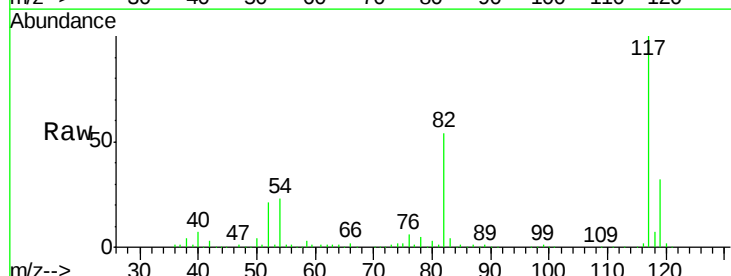
Instrument :
MSVOA_X
ClientSampleId :

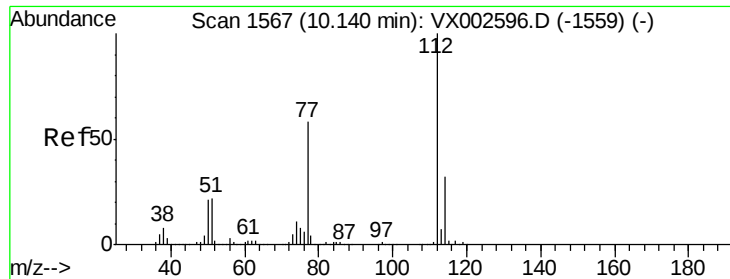
Tot Ion: 95 Resp: 154203
Ion Ratio Lower Upper
95 100
174 96.8 0.0 187.4
176 94.1 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002771.D
Acq: 21 Jun 2018 05:11

Tgt Ion: 117 Resp: 287919
Ion Ratio Lower Upper
117 100
82 54.2 45.0 67.4
119 31.9 25.8 38.6





#65

Chlorobenzene

Concen: 0.49 ug/l

RT: 10.15 min Scan# 1568

Delta R.T. 0.01 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

Instrument :

MSVOA_X

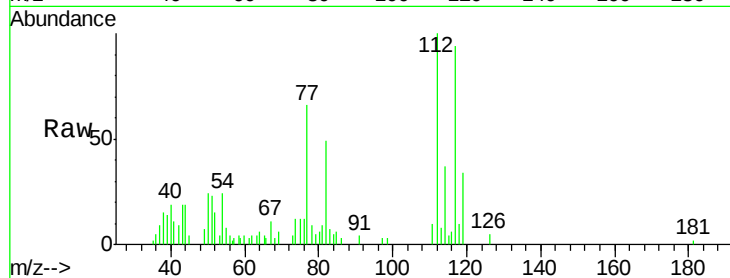
ClientSampleId :

Tot Ion:112 Resp: 3447

Ion Ratio Lower Upper

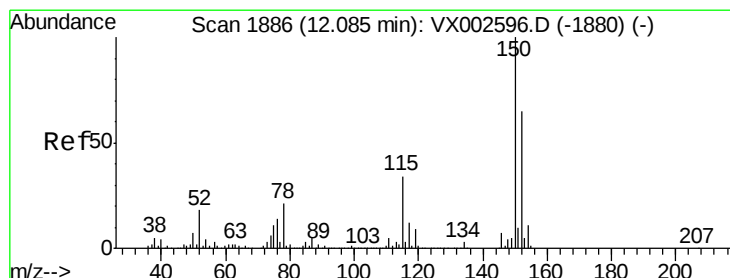
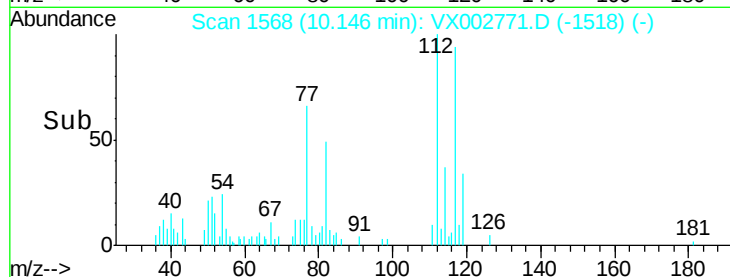
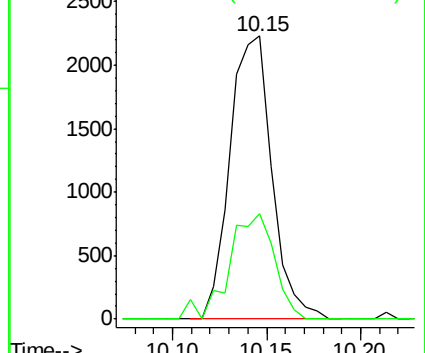
112 100

114 37.2 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# 1886

Delta R.T. -0.00 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

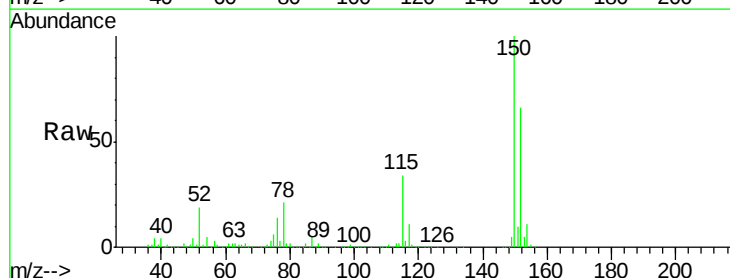
Tgt Ion:152 Resp: 162063

Ion Ratio Lower Upper

152 100

115 54.4 40.1 120.2

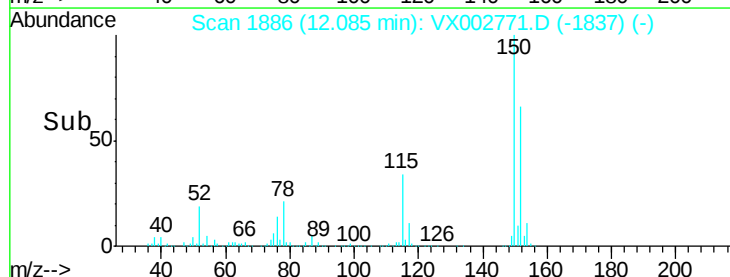
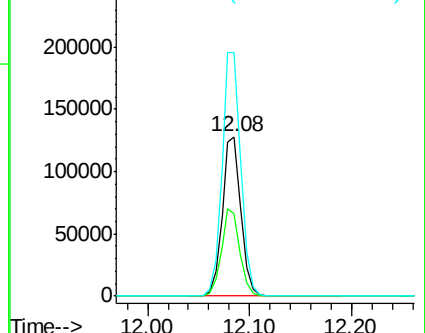
150 155.4 0.0 347.2

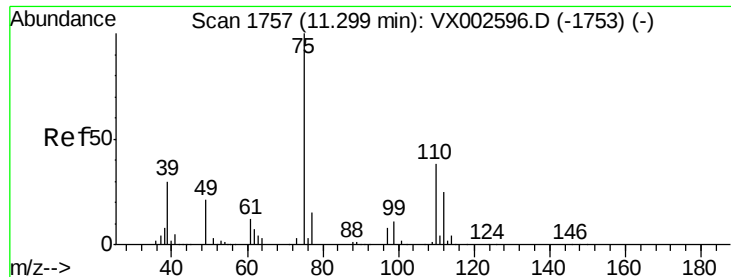


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.29 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

Instrument :

MSVOA_X

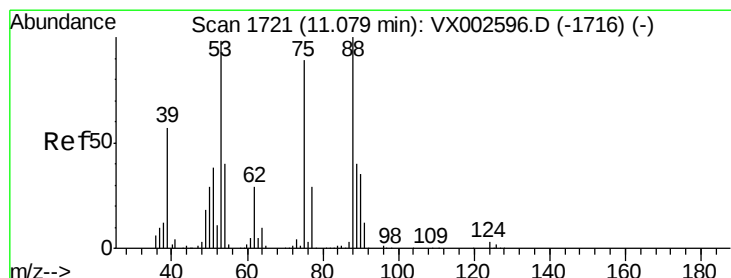
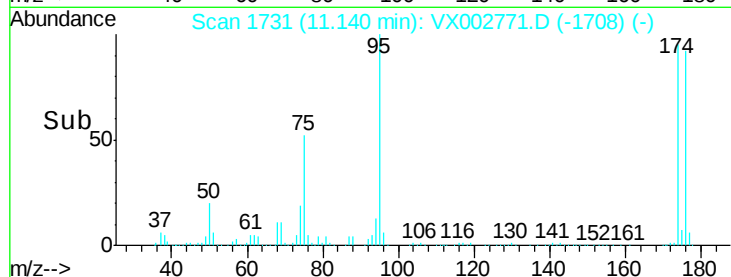
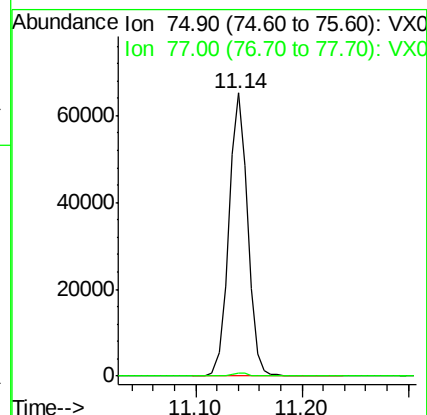
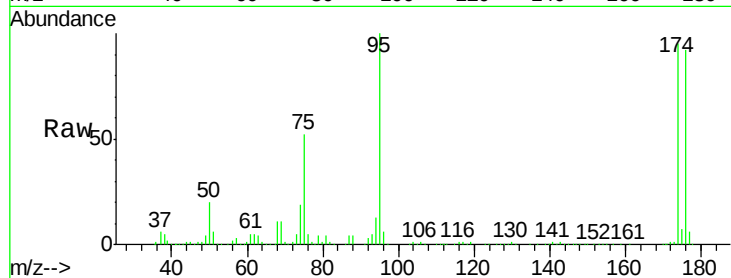
ClientSampleId :

Tot Ion: 75 Resp: 80383

Ion Ratio Lower Upper

75 100

77 1.3 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 81.25 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

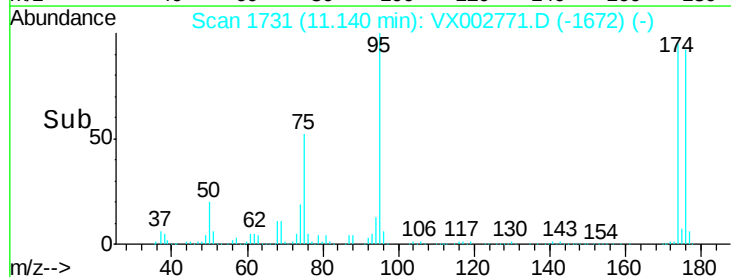
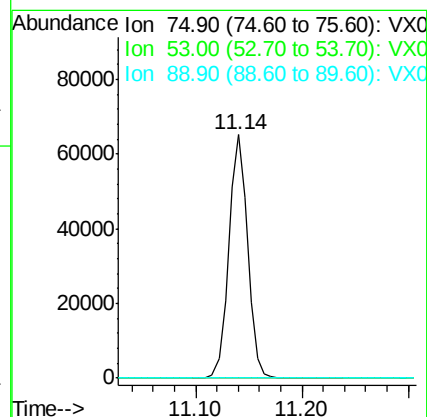
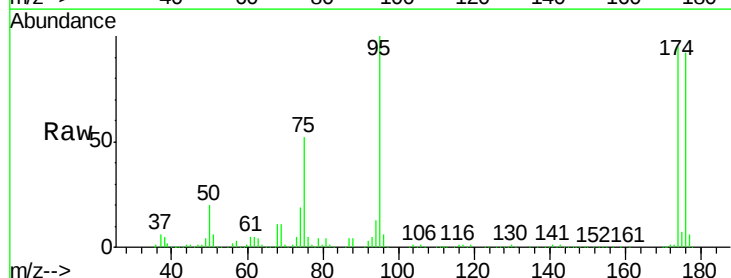
Tgt Ion: 75 Resp: 80383

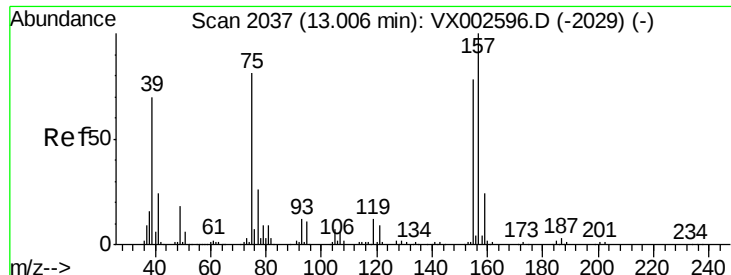
Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.44 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002771.D

Acq: 21 Jun 2018 05:11

Instrument :

MSVOA_X

ClientSampleId :

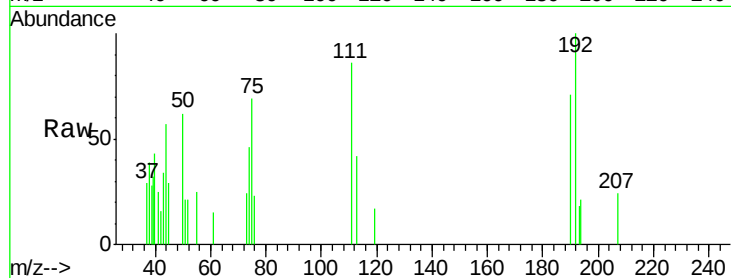
Tot Ion: 75 Resp: 297

Ion Ratio Lower Upper

75 100

155 0.0 45.8 137.4#

157 0.0 60.1 180.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

12.98

250

200

150

100

50

0

Time-->

