

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002811.D
 Acq On : 22 Jun 2018 02:14
 Operator : JC/MD
 Sample : PB110441ZHE#14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 05:21:43 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	226353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	315201	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	294061	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	167252	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	154981	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	
35) Dibromofluoromethane	5.51	113	122391	48.65	ug/l	0.00
Spiked Amount			Recovery	=	97.30%	
50) Toluene-d8	8.72	98	454025	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
62) 4-Bromofluorobenzene	11.14	95	156651	43.28	ug/l	0.00
Spiked Amount			Recovery	=	86.56%	

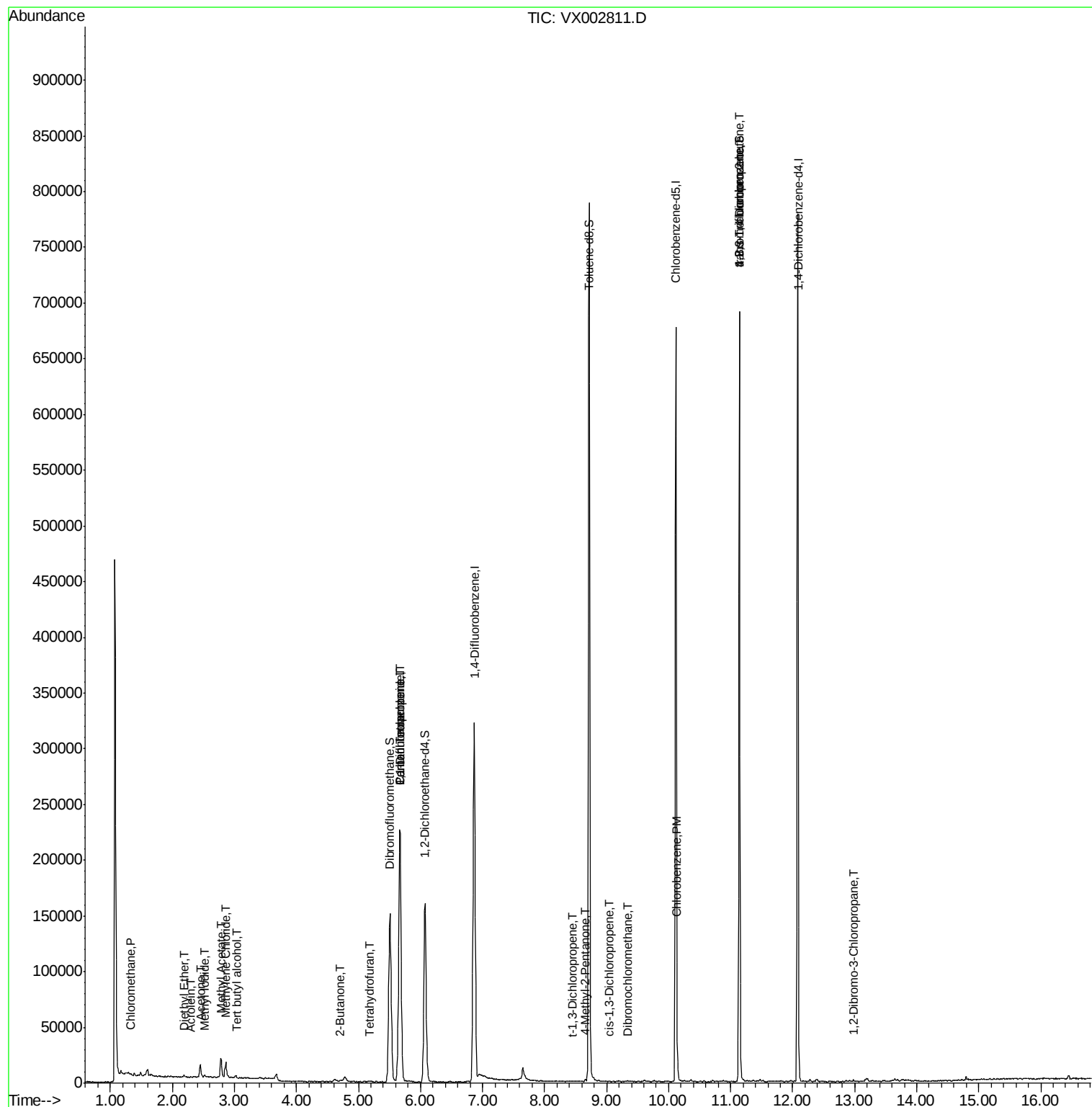
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	627	0.22	ug/l	100
8) Diethyl Ether	2.19	74	604	0.33	ug/l	96
10) Methyl Iodide	2.52	142	1700	5.60	ug/l #	98
11) Tert butyl alcohol	3.03	59	1315	1.85	ug/l	100
13) Acrolein	2.31	56	405	8.05	ug/l #	64
16) Acetone	2.45	43	12734	8.39	ug/l	95
18) Methyl Acetate	2.78	43	20849	5.16	ug/l	96
20) Methylene Chloride	2.85	84	6302	2.03	ug/l	92
25) 2-Butanone	4.71	43	1855	0.93	ug/l	96
29) Tetrahydrofuran	5.18	42	923	0.71	ug/l #	69
36) 1,1-Dichloropropene	5.67	75	15692	4.69	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21014	6.30	ug/l #	14
51) 4-Methyl-2-Pentanone	8.66	43	1064	0.26	ug/l #	87
53) t-1,3-Dichloropropene	8.45	75	64	2.41	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	23	3.22	ug/l #	13
60) Dibromochloromethane	9.34	129	107	3.79	ug/l #	11
65) Chlorobenzene	10.14	112	2977	0.41	ug/l #	86
76) 1,2,3-Trichloropropane	11.14	75	84385	26.74	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84385	82.58	ug/l #	6
92) 1,2-Dibromo-3-Chloropropan	12.98	75	350	0.51	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: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

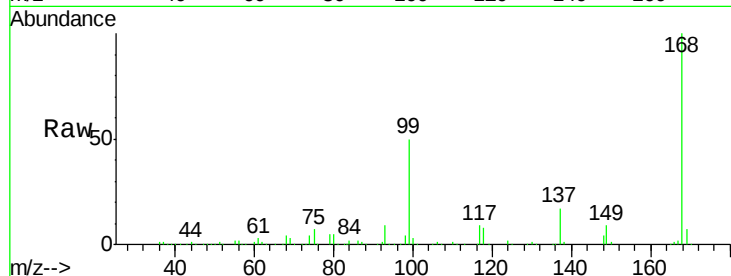
ClientSampled :

Tot Ion:168 Resp: 226353

Ion Ratio Lower Upper

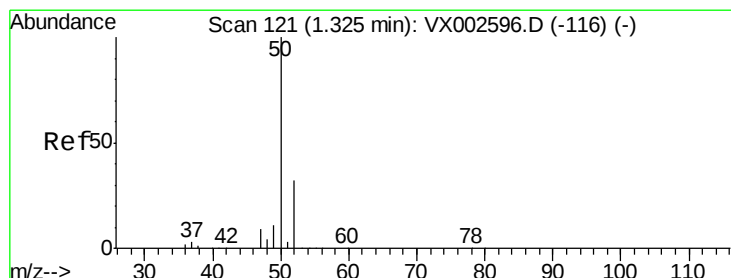
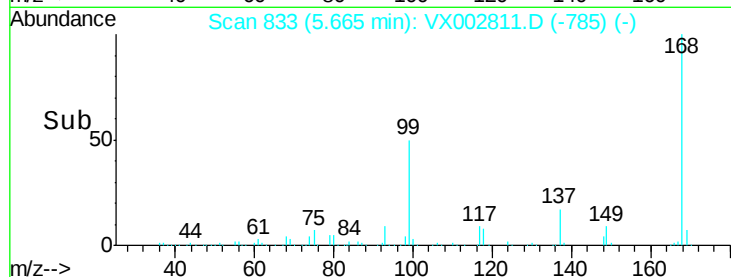
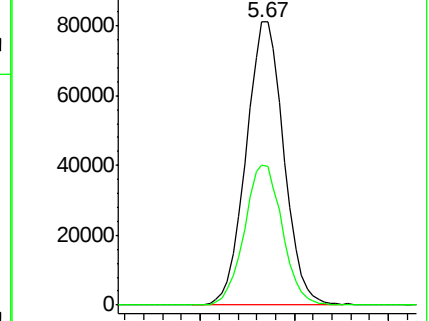
168 100

99 49.6 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.22 ug/l

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002811.D

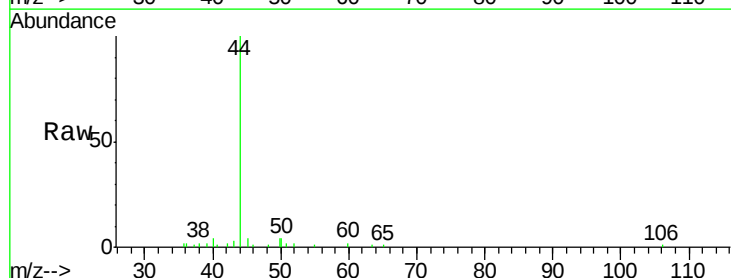
Acq: 22 Jun 2018 02:14

Tgt Ion: 50 Resp: 627

Ion Ratio Lower Upper

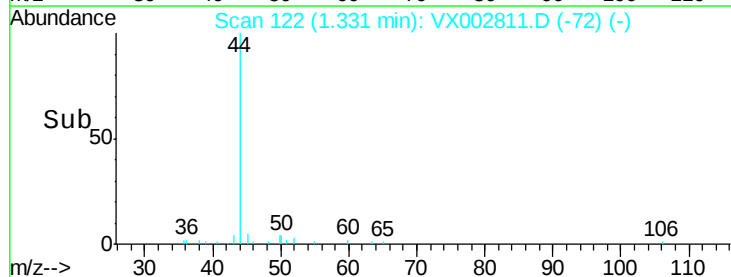
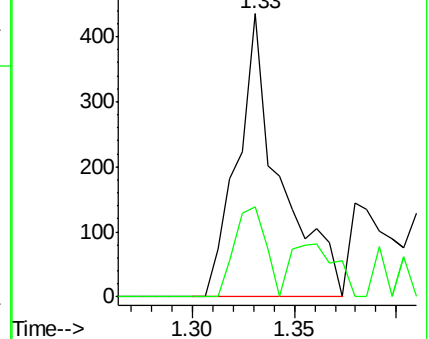
50 100

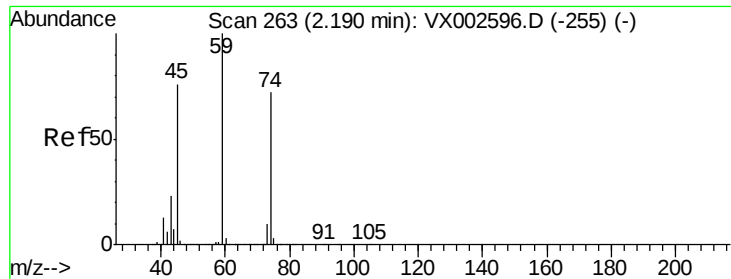
52 32.0 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#8

Diethyl Ether

Concen: 0.33 ug/l

RT: 2.19 min Scan# 263

Delta R.T. -0.00 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

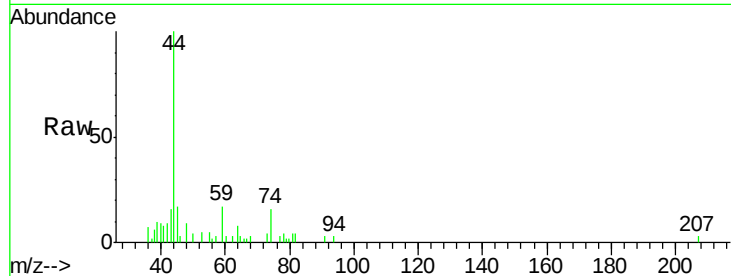
ClientSampleId :

Tot Ion: 74 Resp: 604

Ion Ratio Lower Upper

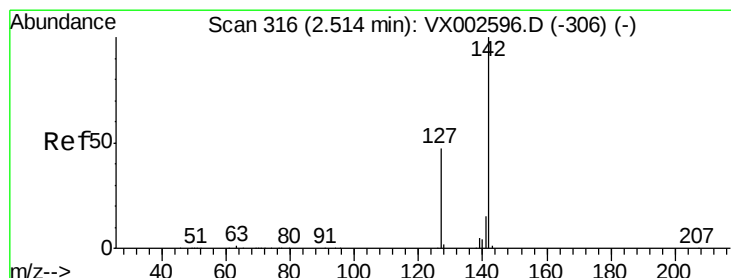
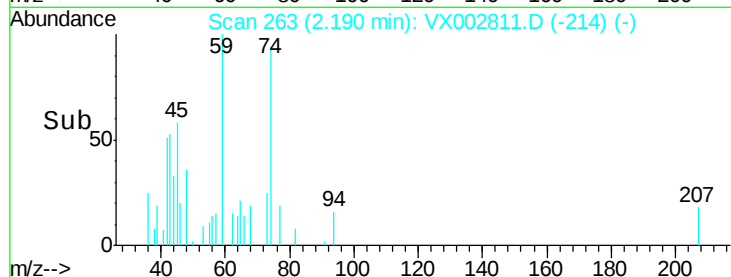
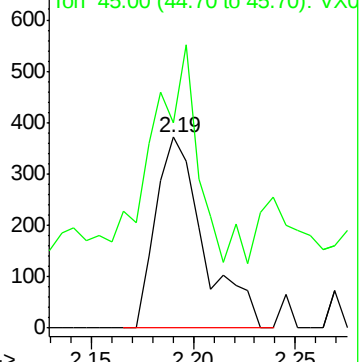
74 100

45 102.0 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 5.60 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

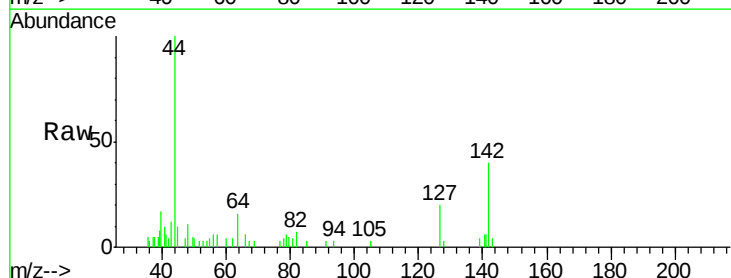
Tgt Ion: 142 Resp: 1700

Ion Ratio Lower Upper

142 100

127 45.3 36.6 55.0

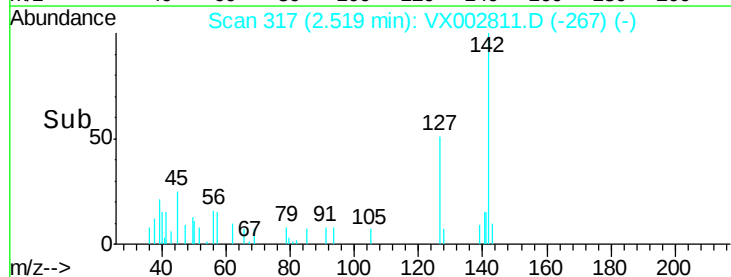
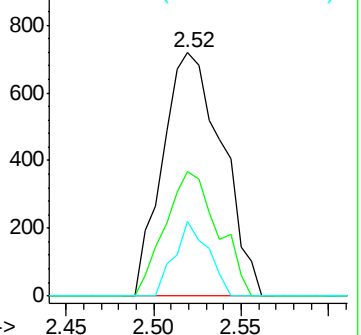
141 17.4 11.3 16.9#

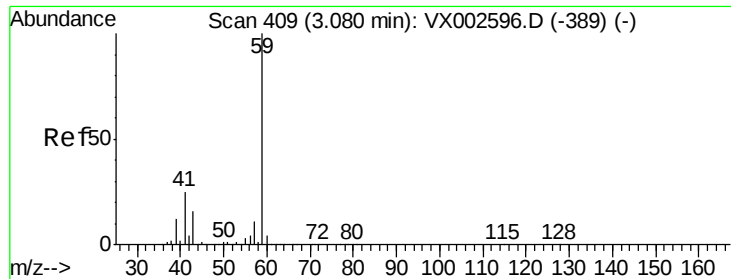


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

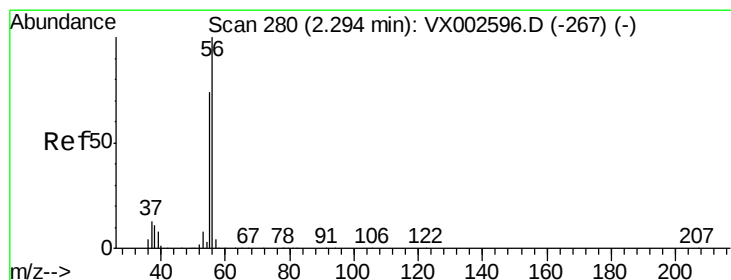
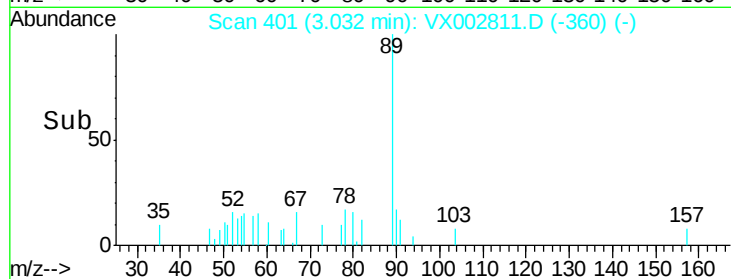
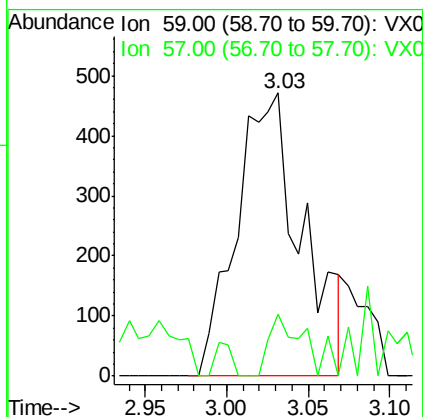
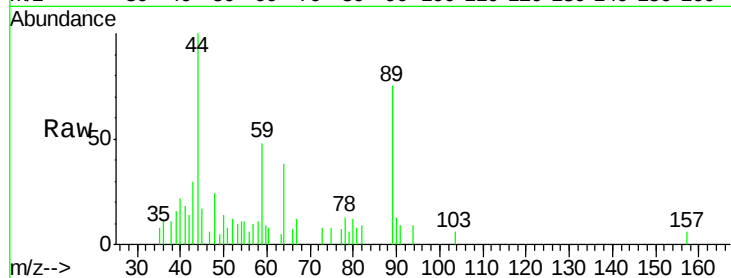




#11
Tert butyl alcohol
Concen: 1.85 ug/l
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

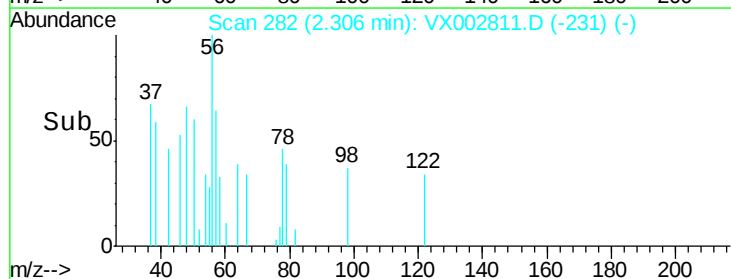
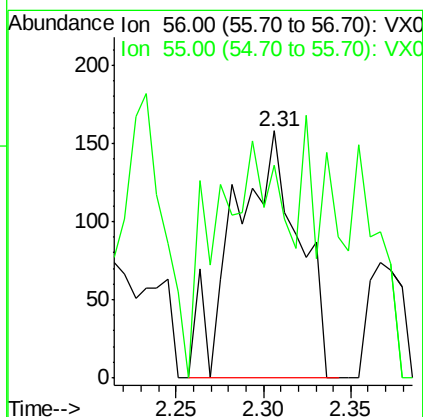
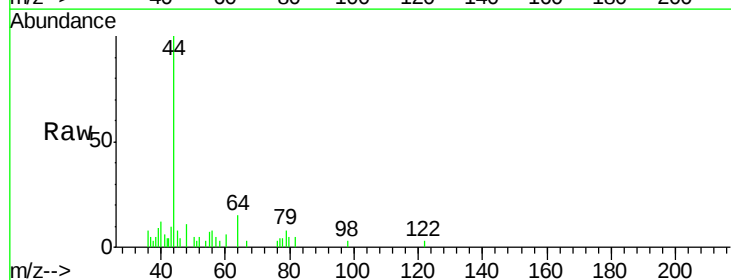
Instrument :
MSVOA_X
ClientSampled :

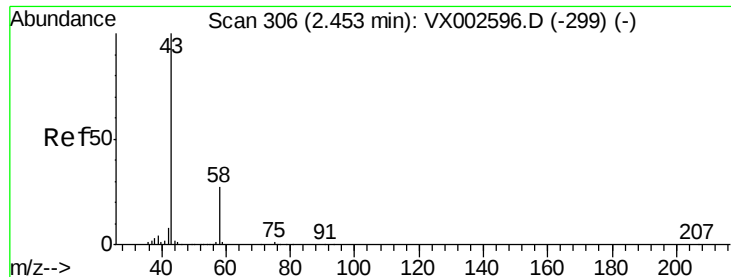
Tot Ion: 59 Resp: 1315
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.2



#13
Acrolein
Concen: 8.05 ug/l
RT: 2.31 min Scan# 282
Delta R.T. 0.01 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

Tgt Ion: 56 Resp: 405
Ion Ratio Lower Upper
56 100
55 100.7 57.0 85.4#





#16

Acetone

Concen: 8.39 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

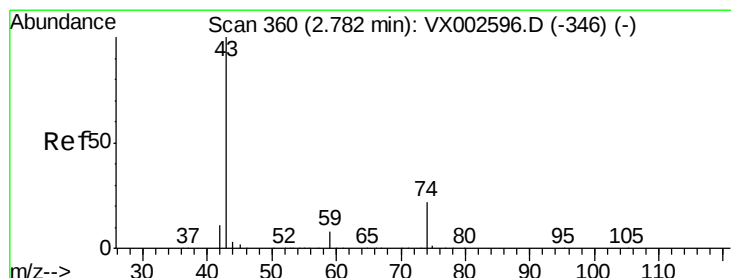
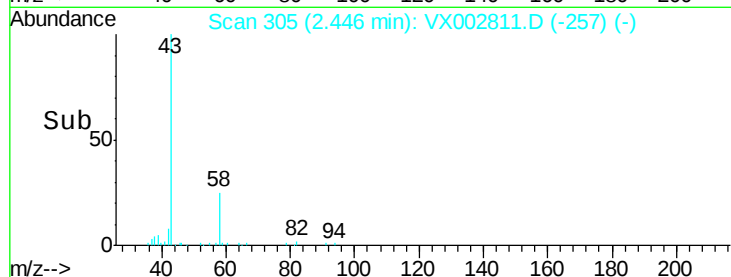
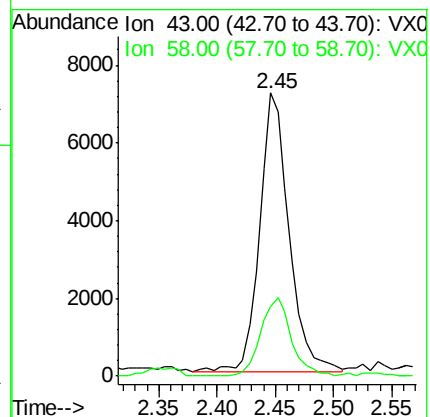
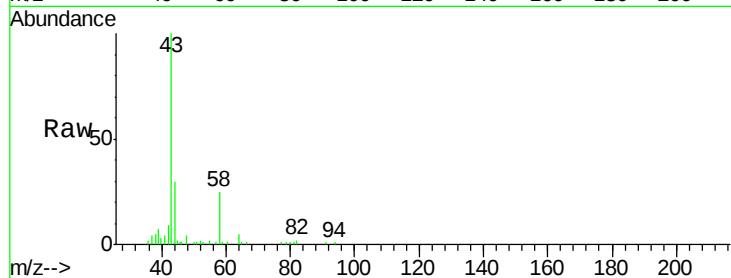
ClientSampleId :

Tot Ion: 43 Resp: 12734

Ion Ratio Lower Upper

43 100

58 25.0 22.1 33.1



#18

Methyl Acetate

Concen: 5.16 ug/l

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002811.D

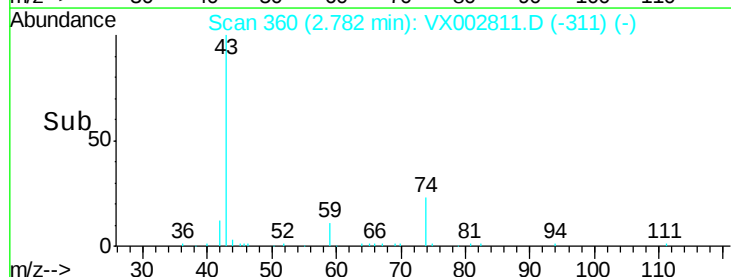
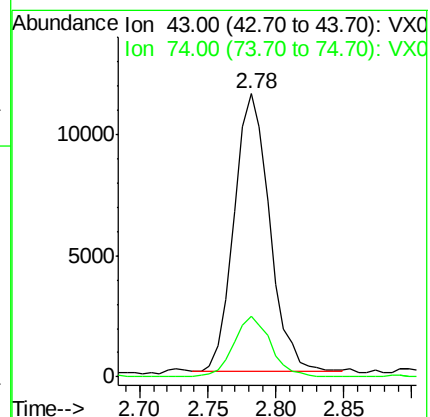
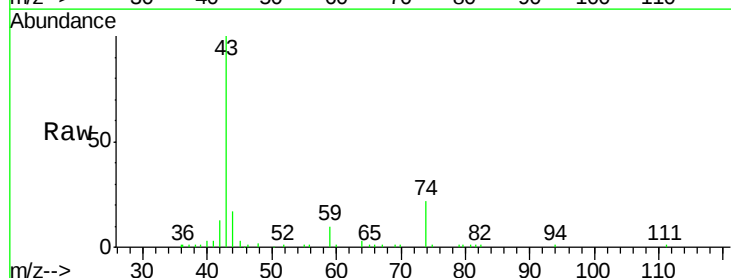
Acq: 22 Jun 2018 02:14

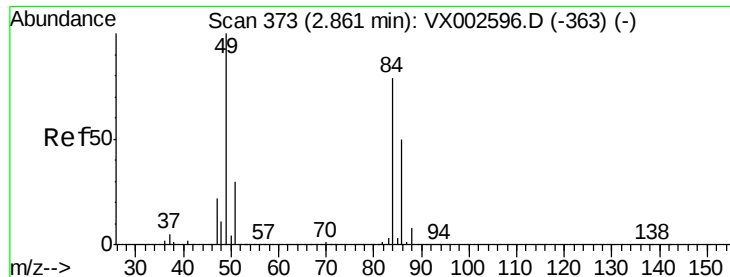
Tgt Ion: 43 Resp: 20849

Ion Ratio Lower Upper

43 100

74 22.8 16.7 25.1





#20

Methylene Chloride

Concen: 2.03 ug/l

RT: 2.85 min Scan# 372

Delta R.T. -0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 6302

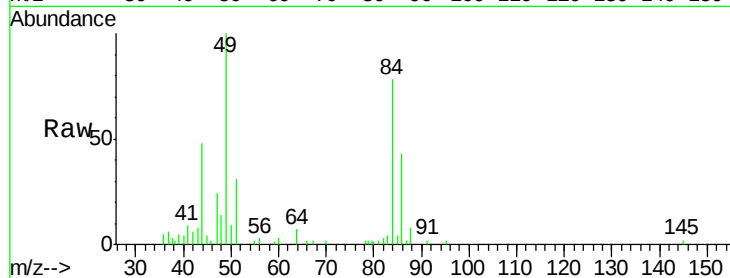
Ion	Ratio	Lower	Upper
84	100		
49	128.4	107.8	161.6
51	37.6	32.8	49.2
86	55.0	52.5	78.7

84 100

49 128.4 107.8 161.6

51 37.6 32.8 49.2

86 55.0 52.5 78.7



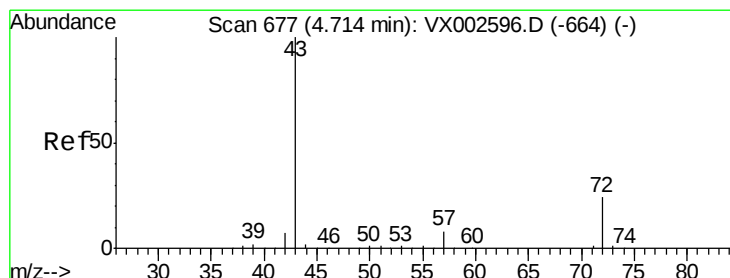
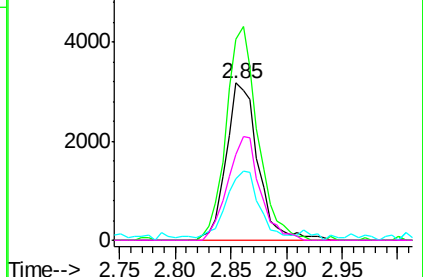
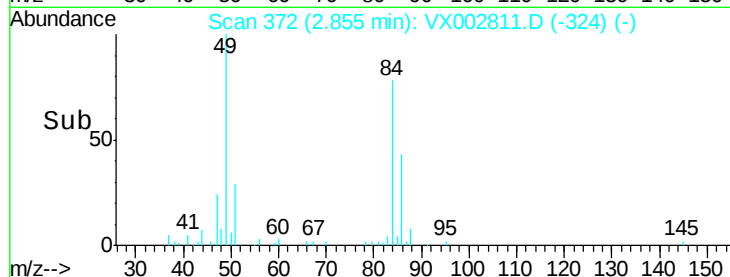
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

Time-->



#25

2-Butanone

Concen: 0.93 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002811.D

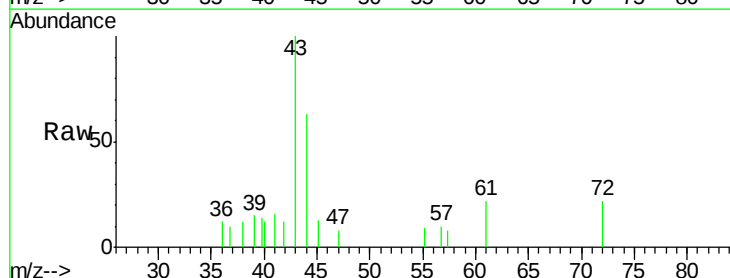
Acq: 22 Jun 2018 02:14

Tgt Ion: 43 Resp: 1855

Ion	Ratio	Lower	Upper
43	100		
72	25.0	18.5	27.7

43 100

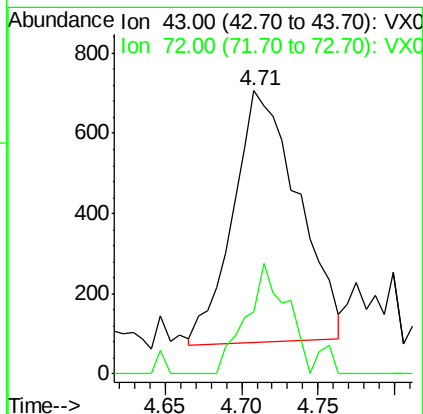
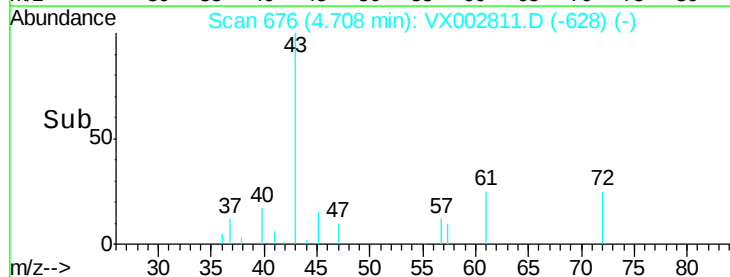
72 25.0 18.5 27.7

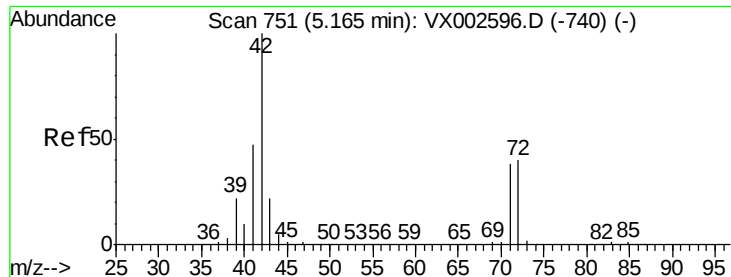


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Time-->

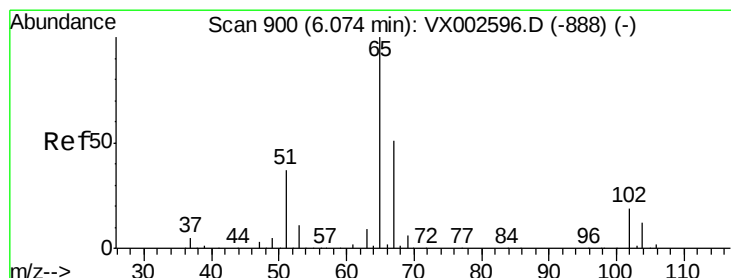
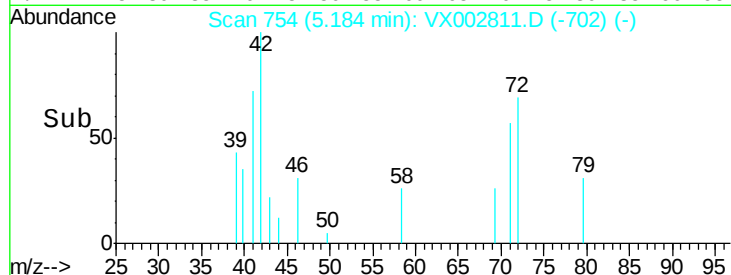
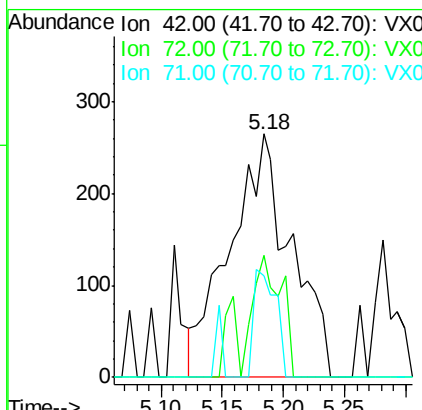
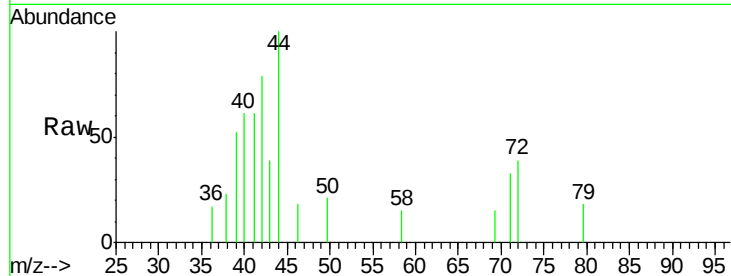




#29
Tetrahydrofuran
Concen: 0.71 ug/l
RT: 5.18 min Scan# 754
Delta R.T. 0.02 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

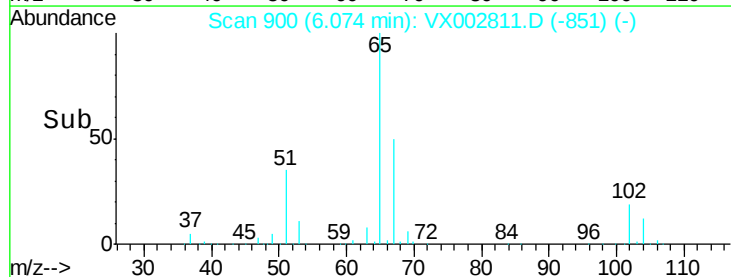
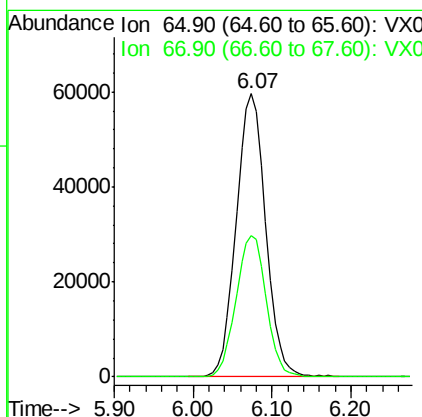
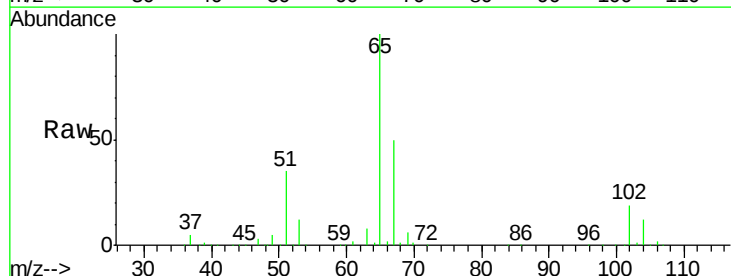
Instrument :
MSVOA_X
ClientSampleId :

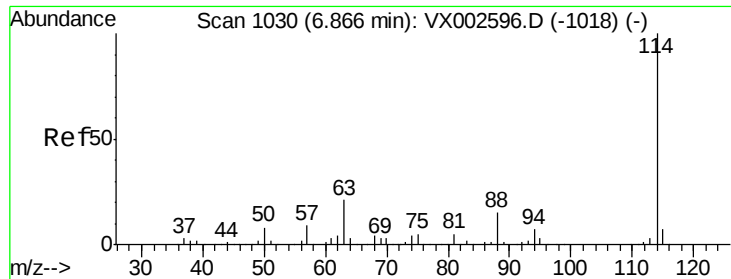
Tot Ion: 42 Resp: 923
Ion Ratio Lower Upper
42 100
72 23.4 32.0 48.0#
71 16.1 30.1 45.1#



#33
1,2-Dichloroethane-d4
Concen: 45.06 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

Tgt Ion: 65 Resp: 154981
Ion Ratio Lower Upper
65 100
67 51.3 0.0 102.6

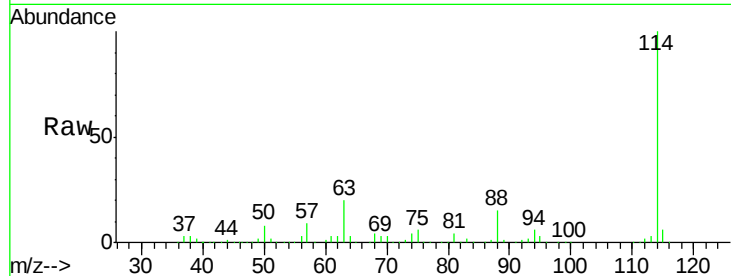




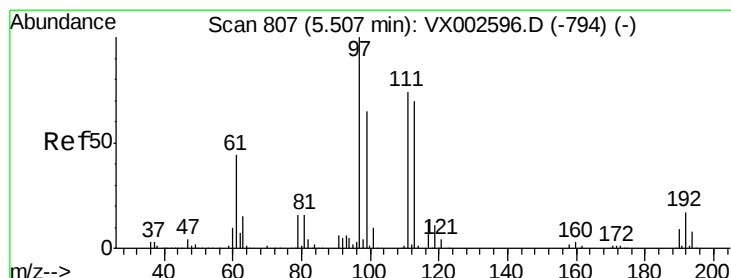
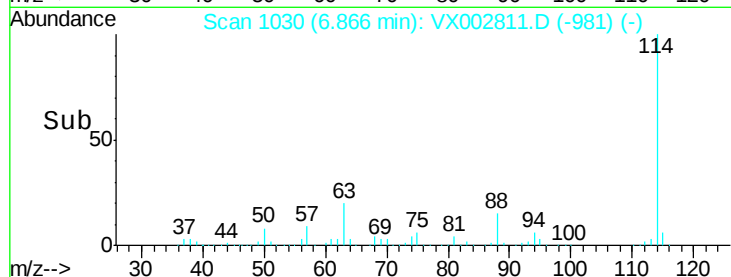
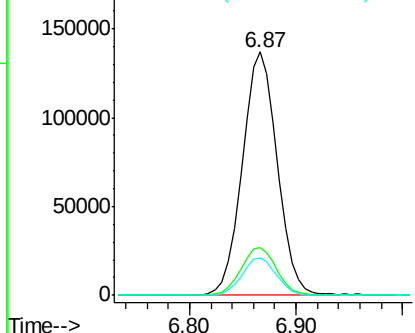
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002811.D
 Acq: 22 Jun 2018 02:14

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 315201
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.4
 88 15.3 0.0 30.0

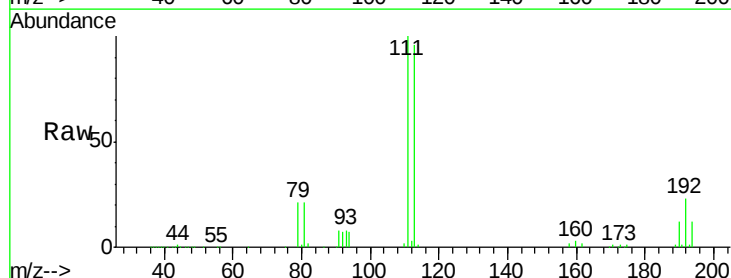


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX
 Ion 87.90 (87.60 to 88.60): VX

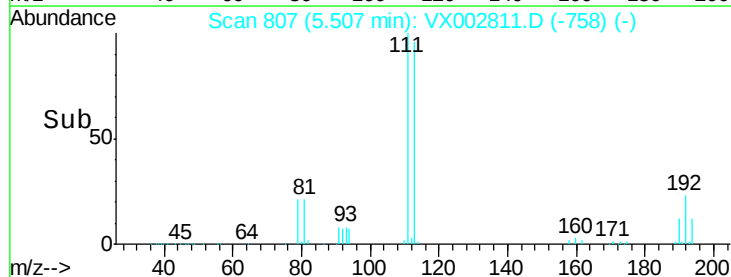
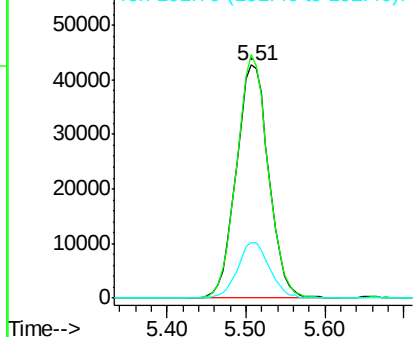


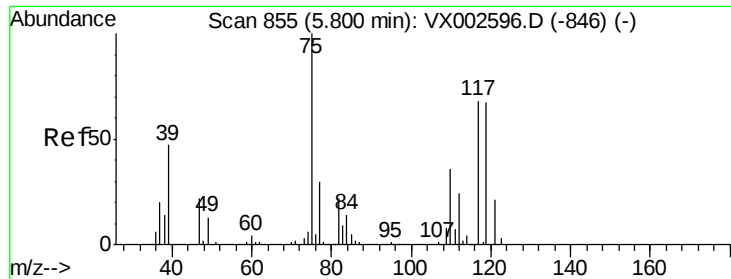
#35
 Dibromofluoromethane
 Concen: 48.65 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. -0.00 min
 Lab File: VX002811.D
 Acq: 22 Jun 2018 02:14

Tgt Ion:113 Resp: 122391
 Ion Ratio Lower Upper
 113 100
 111 101.1 81.4 122.0
 192 23.5 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

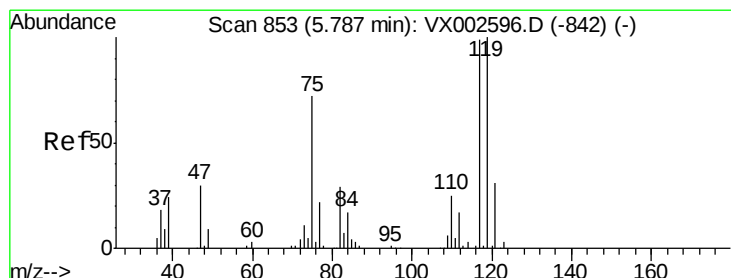
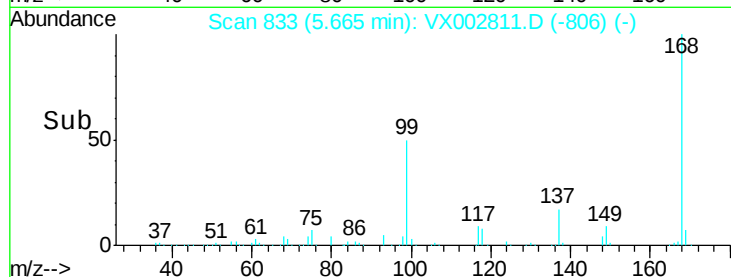
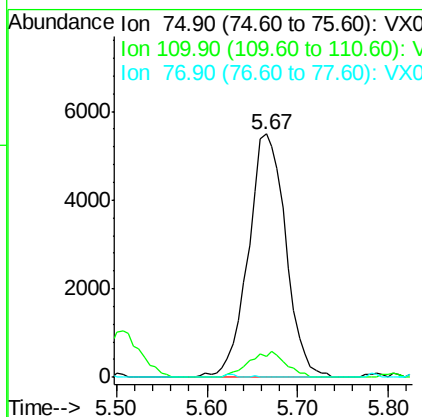
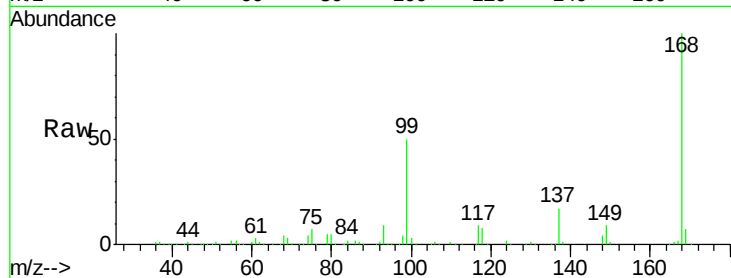




#36
 1,1-Dichloropropene
 Concen: 4.69 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002811.D
 Acq: 22 Jun 2018 02:14

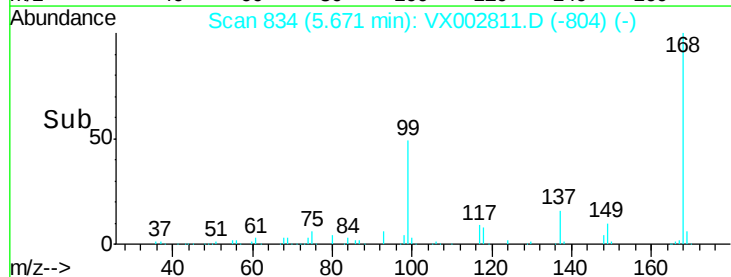
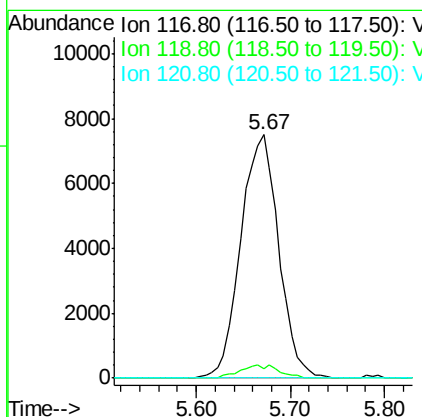
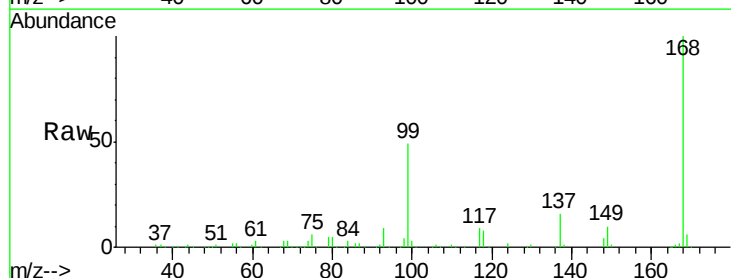
Instrument :
 MSVOA_X
 ClientSampleId :

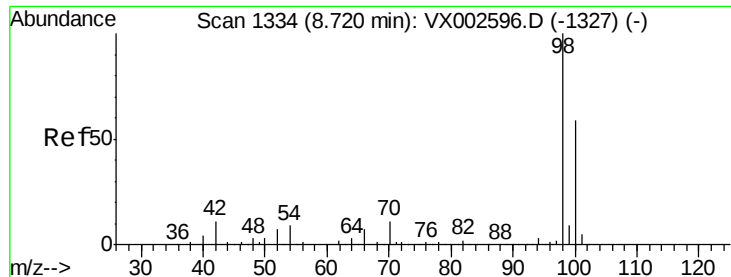
Tot Ion: 75 Resp: 15692
 Ion Ratio Lower Upper
 75 100
 110 10.5 18.1 54.4#
 77 0.1 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 6.30 ug/l
 RT: 5.67 min Scan# 834
 Delta R.T. -0.12 min
 Lab File: VX002811.D
 Acq: 22 Jun 2018 02:14

Tgt Ion: 117 Resp: 21014
 Ion Ratio Lower Upper
 117 100
 119 3.6 77.4 116.0#
 121 0.0 24.4 36.6#

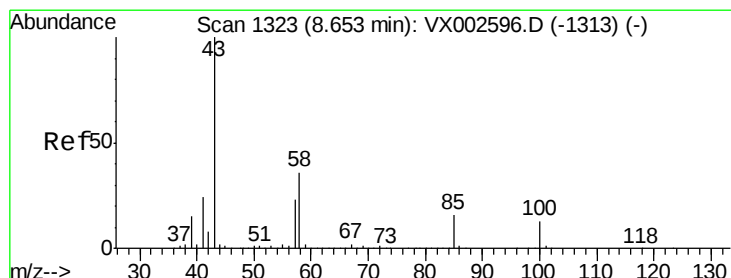
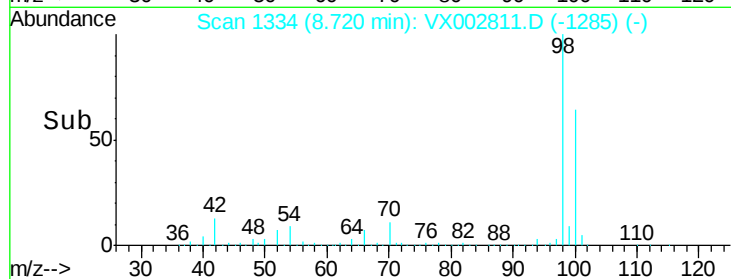
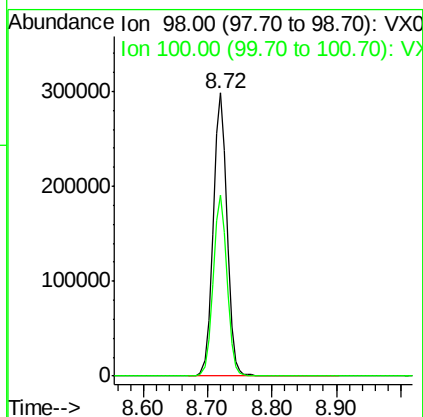
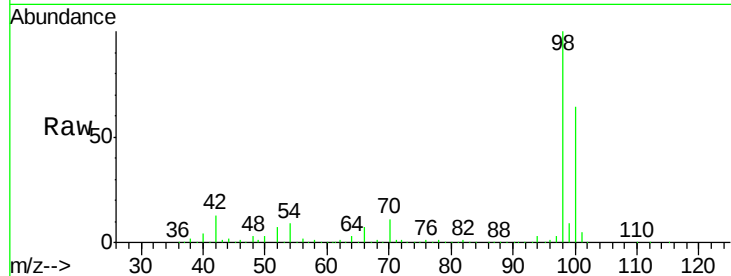




#50
Toluene-d8
Concen: 47.53 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

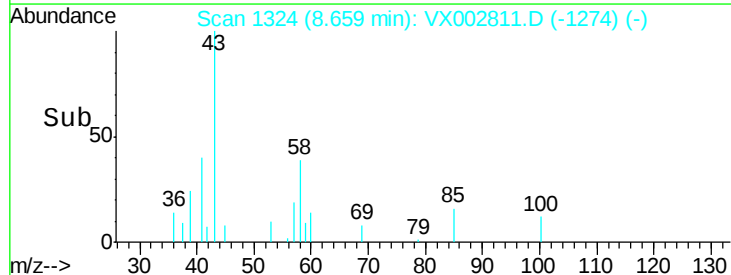
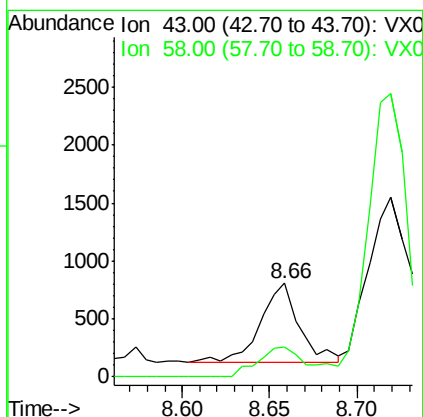
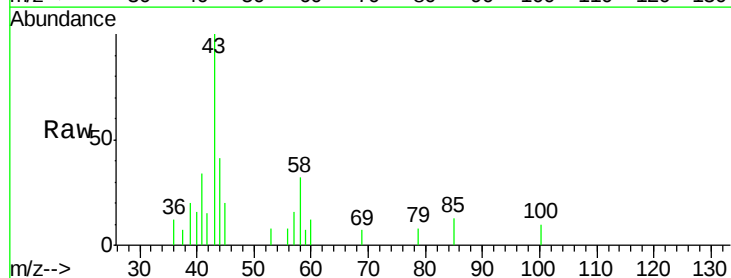
Instrument :
MSVOA_X
ClientSampleId :

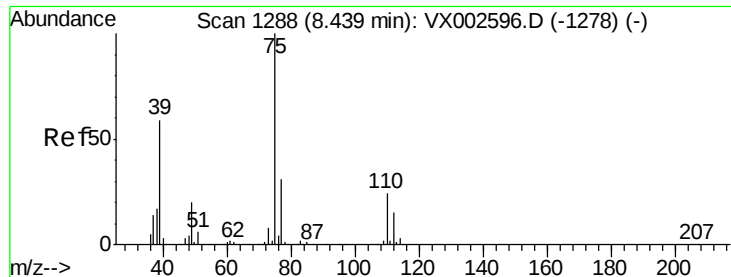
Tot Ion: 98 Resp: 454025
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.26 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

Tgt Ion: 43 Resp: 1064
Ion Ratio Lower Upper
43 100
58 43.4 28.6 42.8#





#53

t-1,3-Dichloropropene

Concen: 2.41 ug/l

RT: 8.45 min Scan# 1289

Delta R.T. 0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

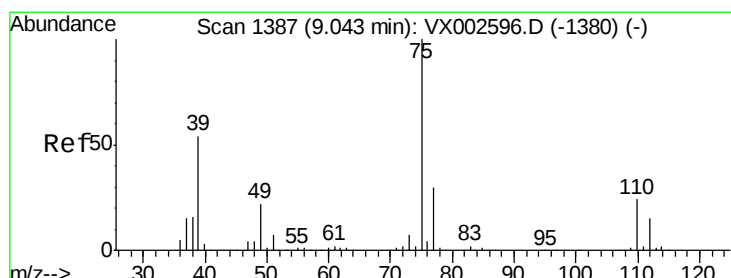
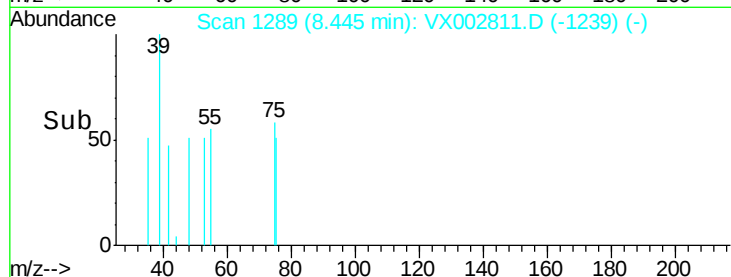
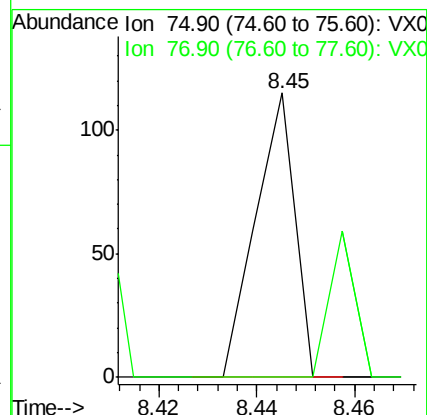
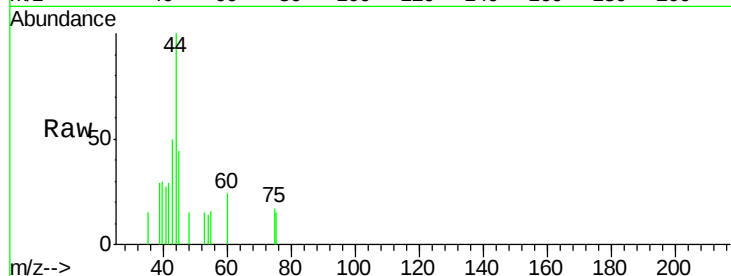
ClientSampleId :

Tot Ion: 75 Resp: 64

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.22 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

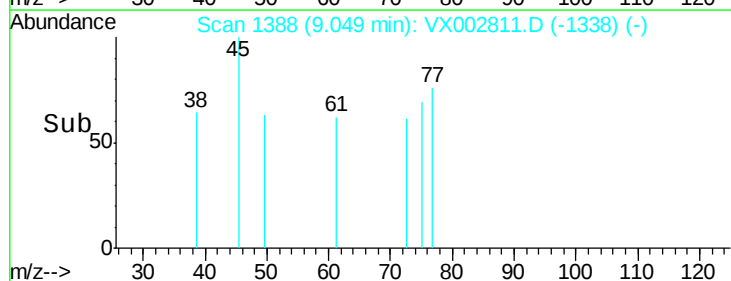
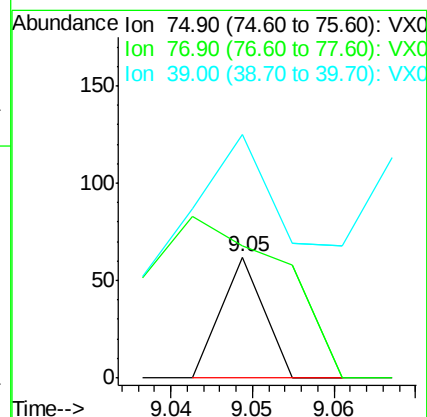
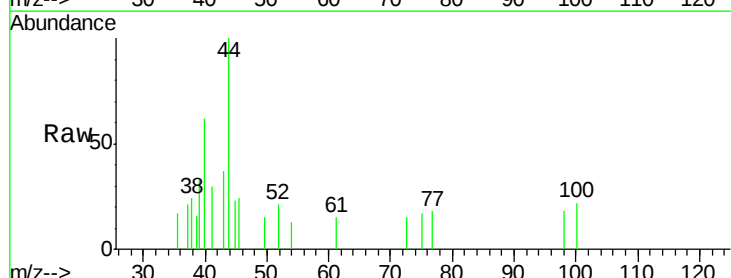
Tgt Ion: 75 Resp: 23

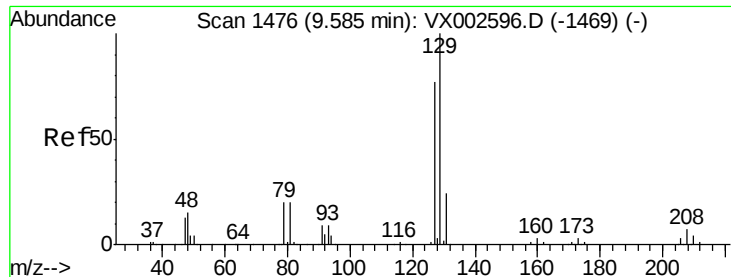
Ion Ratio Lower Upper

75 100

77 109.7 24.8 37.2#

39 91.9 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: VX002811.D

Acq: 22 Jun 2018 02:14

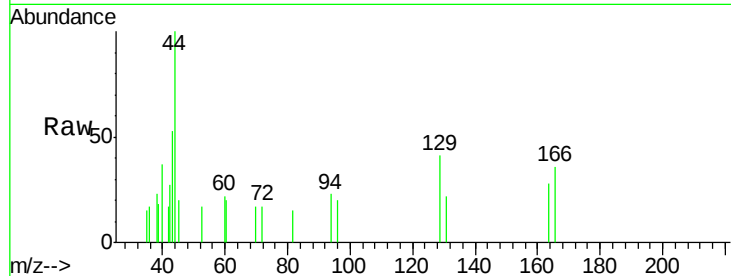
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 107

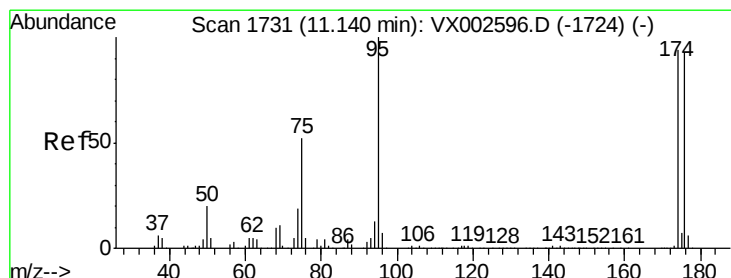
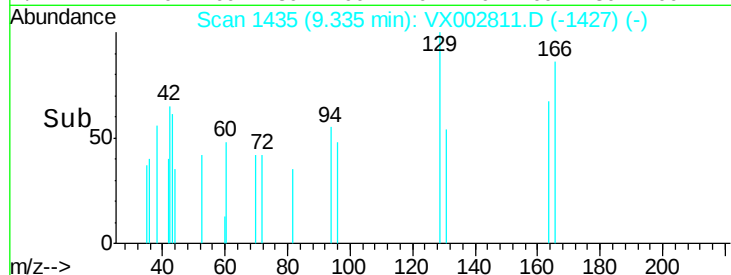
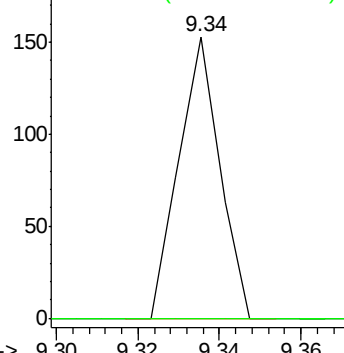
Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 43.28 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

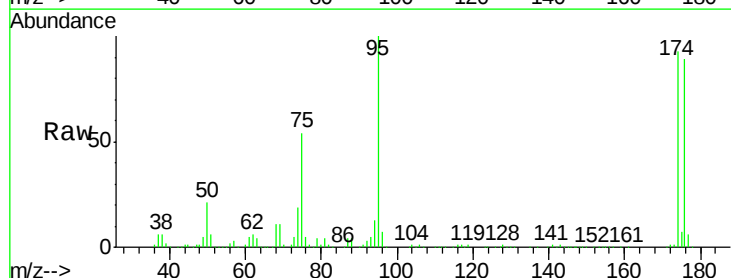
Tgt Ion: 95 Resp: 156651

Ion Ratio Lower Upper

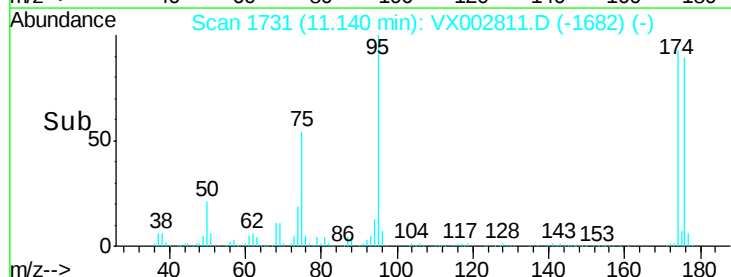
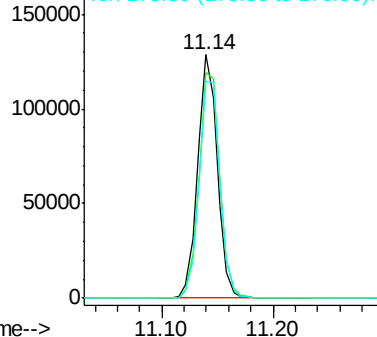
95 100

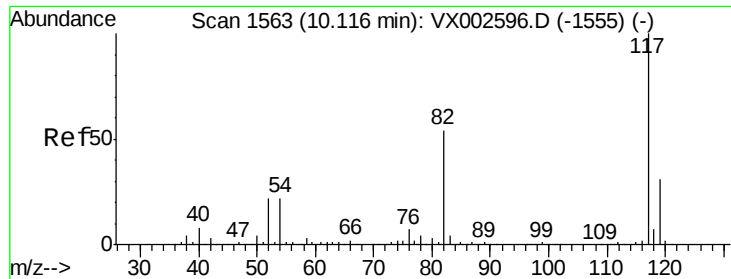
174 97.8 0.0 187.4

176 94.6 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

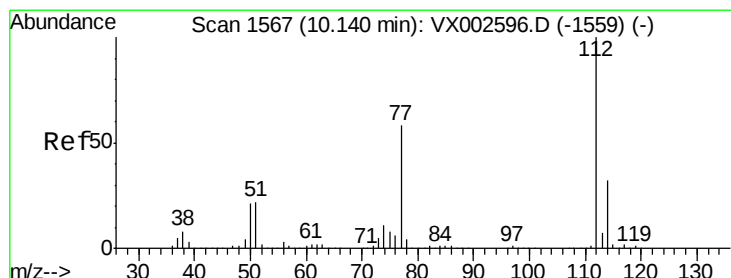
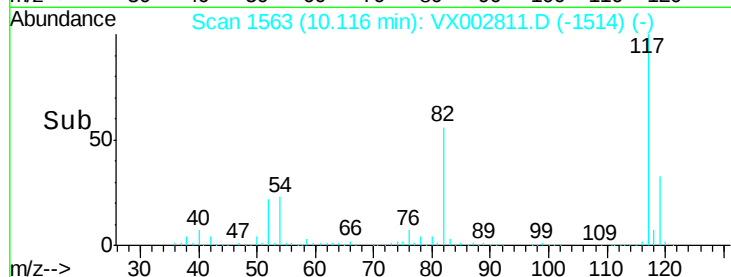
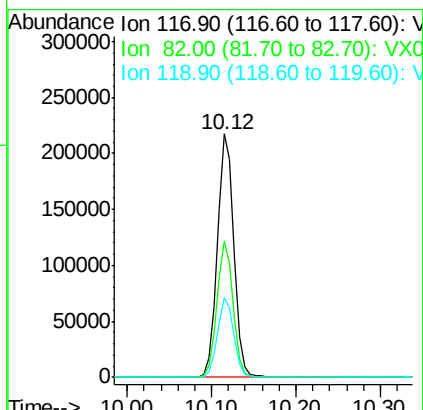
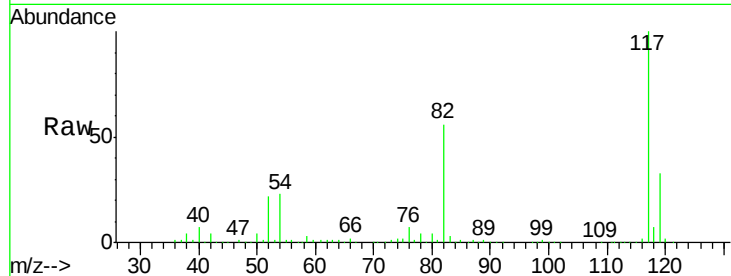




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

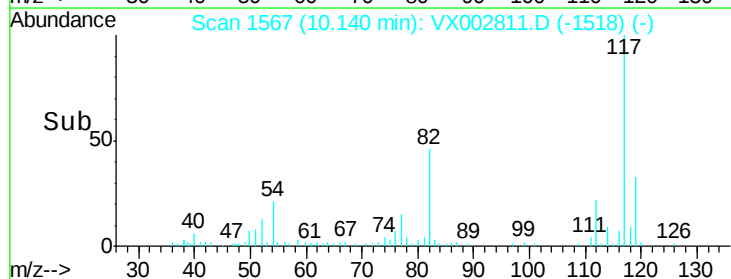
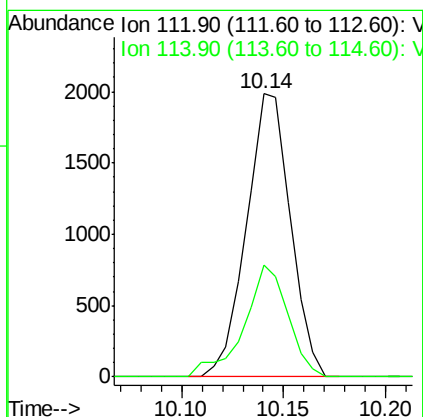
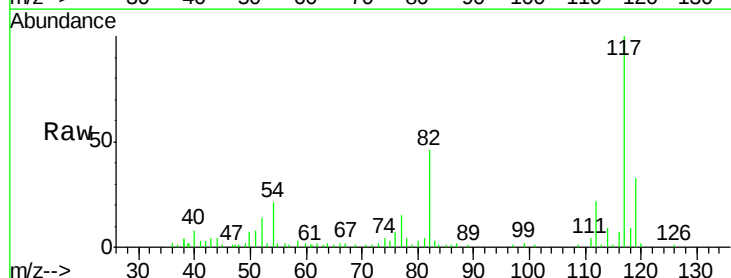
Instrument :
MSVOA_X
ClientSampled :

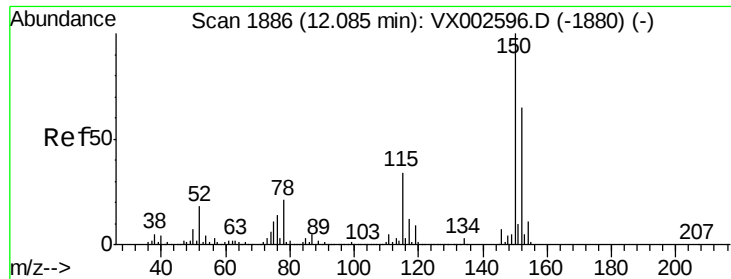
Tot Ion:117 Resp: 294061
Ion Ratio Lower Upper
117 100
82 56.0 45.0 67.4
119 32.7 25.8 38.6



#65
Chlorobenzene
Concen: 0.41 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX002811.D
Acq: 22 Jun 2018 02:14

Tgt Ion:112 Resp: 2977
Ion Ratio Lower Upper
112 100
114 39.3 25.3 37.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

ClientSampleId :

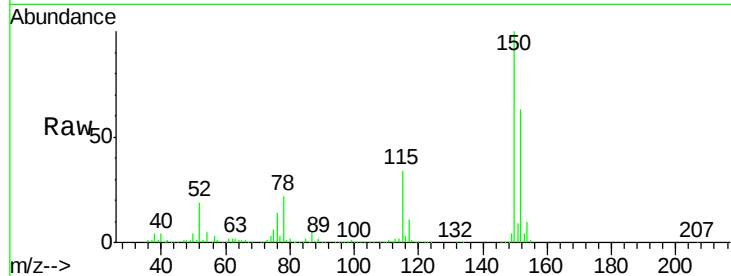
Tot Ion:152 Resp: 167252

Ion Ratio Lower Upper

152 100

115 55.0 40.1 120.2

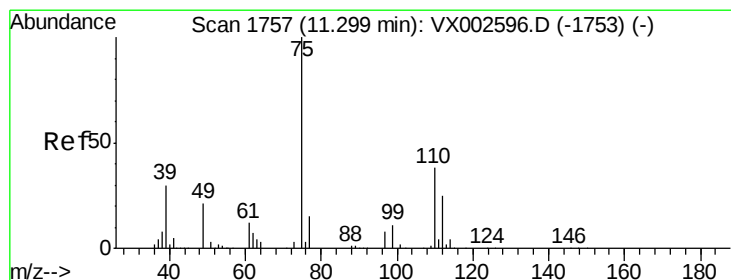
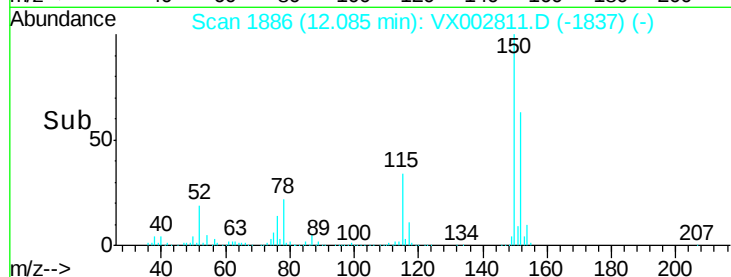
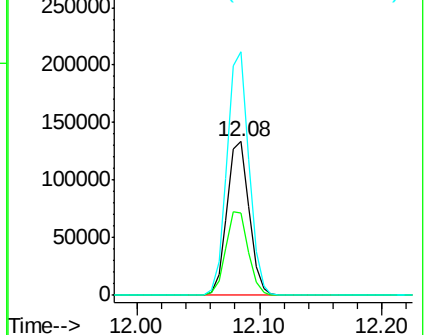
150 156.6 0.0 347.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.74 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002811.D

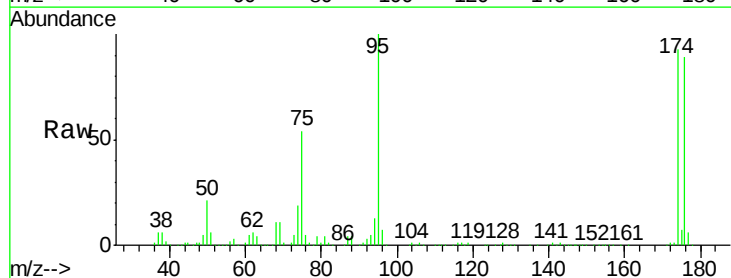
Acq: 22 Jun 2018 02:14

Tgt Ion: 75 Resp: 84385

Ion Ratio Lower Upper

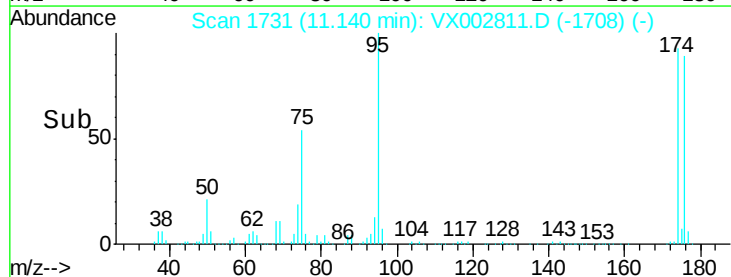
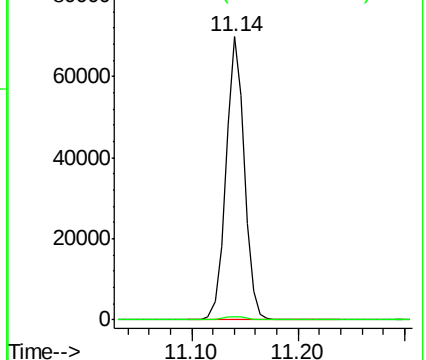
75 100

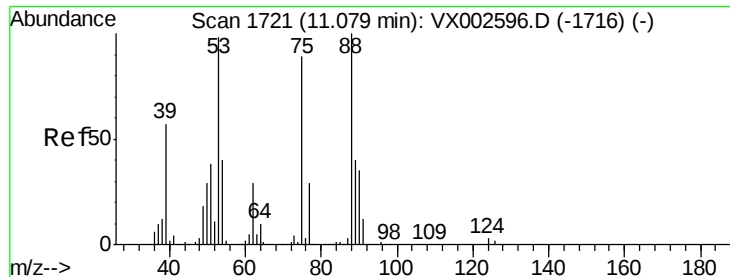
77 1.4 22.8 68.3#



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: 82.58 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

Instrument :

MSVOA_X

ClientSampled :

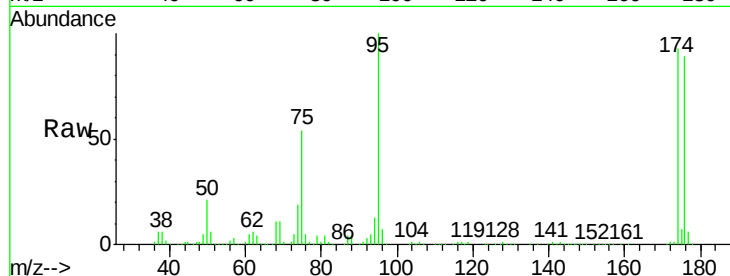
Tot Ion: 75 Resp: 84385

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

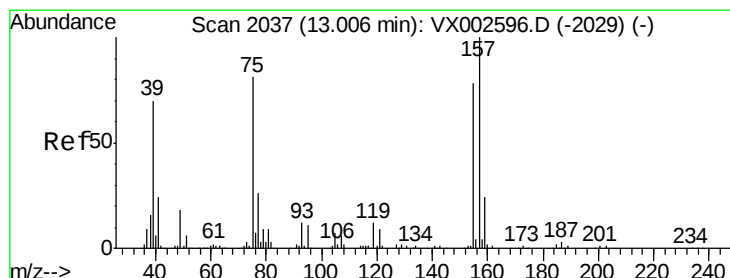
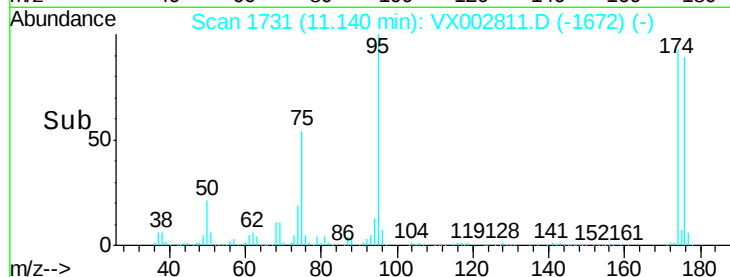
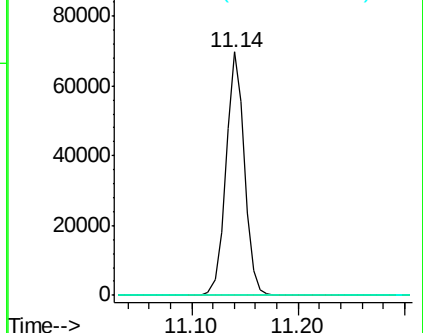
89 0.0 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.51 ug/l

RT: 12.98 min Scan# 2033

Delta R.T. -0.02 min

Lab File: VX002811.D

Acq: 22 Jun 2018 02:14

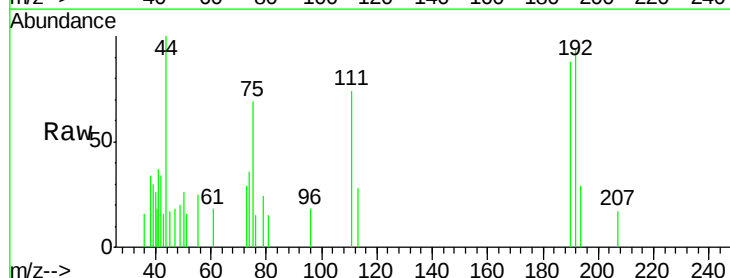
Tgt Ion: 75 Resp: 350

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

