

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062118\
 Data File : VX002787.D
 Acq On : 21 Jun 2018 14:43
 Operator : JC/MD
 Sample : J3617-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 22 01:09:41 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	237403	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	336624	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	318894	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	179898	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	163523	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	
35) Dibromofluoromethane	5.51	113	129795	48.31	ug/l	0.00
Spiked Amount			Recovery	=	96.62%	
50) Toluene-d8	8.72	98	480351	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	
62) 4-Bromofluorobenzene	11.14	95	169561	43.87	ug/l	0.00
Spiked Amount			Recovery	=	87.74%	

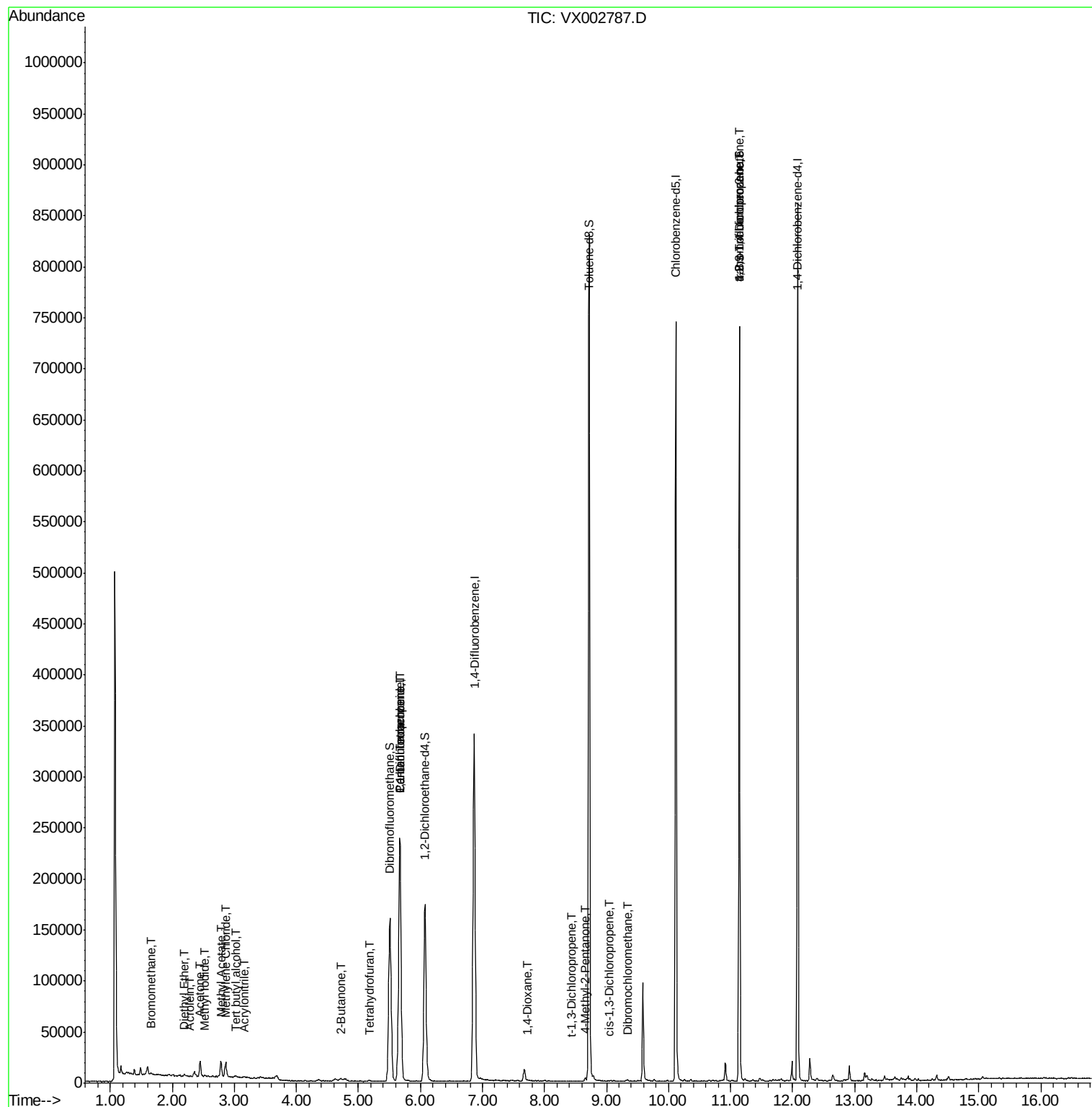
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	982	0.52	ug/l	81
8) Diethyl Ether	2.20	74	438	0.23	ug/l	86
10) Methyl Iodide	2.51	142	1397	5.51	ug/l #	86
11) Tert butyl alcohol	3.02	59	887	1.19	ug/l #	79
13) Acrolein	2.29	56	607	8.55	ug/l #	78
15) Acrylonitrile	3.15	53	411	0.25	ug/l #	71
16) Acetone	2.45	43	16199	10.18	ug/l	97
18) Methyl Acetate	2.78	43	18612	4.39	ug/l	100
20) Methylene Chloride	2.86	84	6166	1.89	ug/l	94
25) 2-Butanone	4.72	43	4245	2.03	ug/l	99
29) Tetrahydrofuran	5.17	42	1237	0.90	ug/l #	70
36) 1,1-Dichloropropene	5.67	75	16359	4.58	ug/l #	51
38) Carbon Tetrachloride	5.67	117	21827	6.13	ug/l #	16
49) 1,4-Dioxane	7.72	88	19	0.29	ug/l #	1
51) 4-Methyl-2-Pentanone	8.66	43	1932	0.45	ug/l #	79
53) t-1,3-Dichloropropene	8.45	75	59	2.41	ug/l #	43
54) cis-1,3-Dichloropropene	9.05	75	122	3.24	ug/l #	46
60) Dibromochloromethane	9.34	129	215	3.82	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	91337	26.91	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	91337	83.07	ug/l #	6

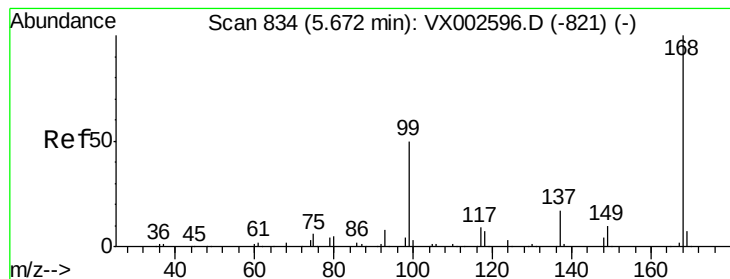
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Jun 16 01:37:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

Instrument :

MSVOA_X

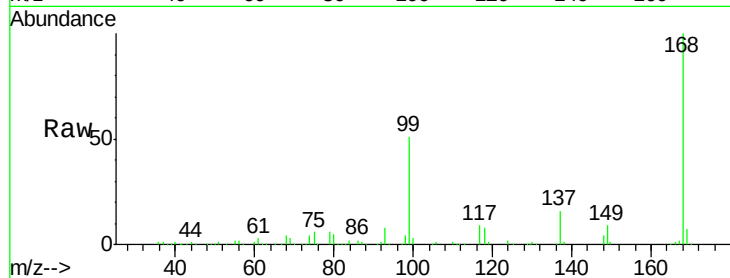
ClientSampleId :

Tot Ion:168 Resp: 237403

Ion Ratio Lower Upper

168 100

99 50.9 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

80000

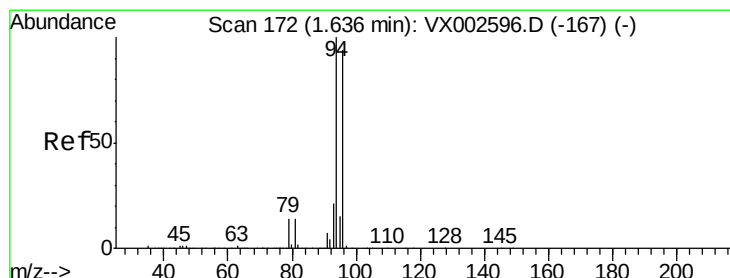
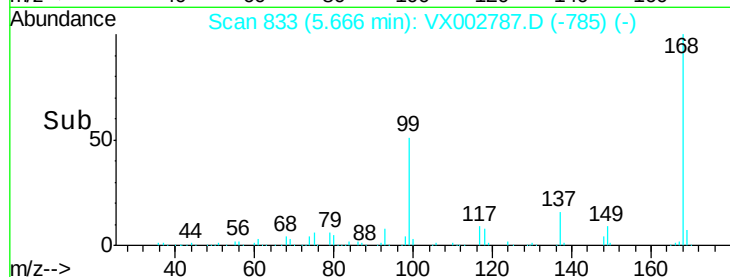
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.52 ug/l

RT: 1.65 min Scan# 175

Delta R.T. 0.02 min

Lab File: VX002787.D

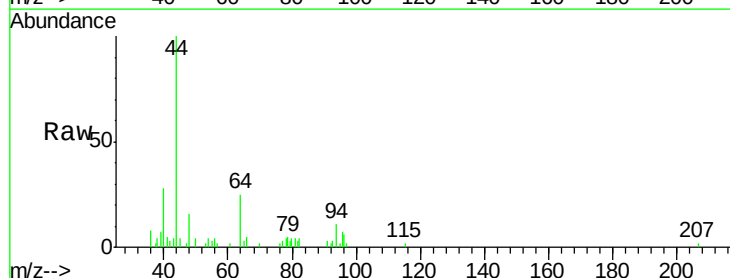
Acq: 21 Jun 2018 14:43

Tgt Ion: 94 Resp: 982

Ion Ratio Lower Upper

94 100

96 111.4 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

400

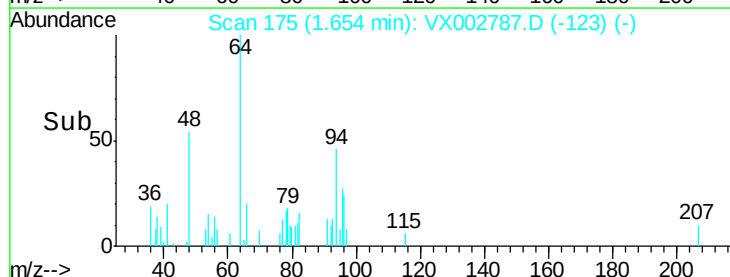
300

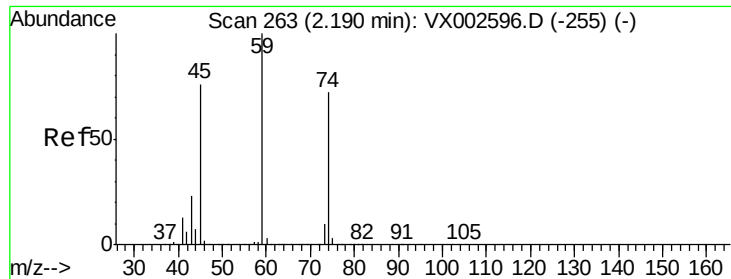
200

100

0

Time--> 1.60 1.65 1.70





#8

Diethyl Ether

Concen: 0.23 ug/l

RT: 2.20 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

Instrument :

MSVOA_X

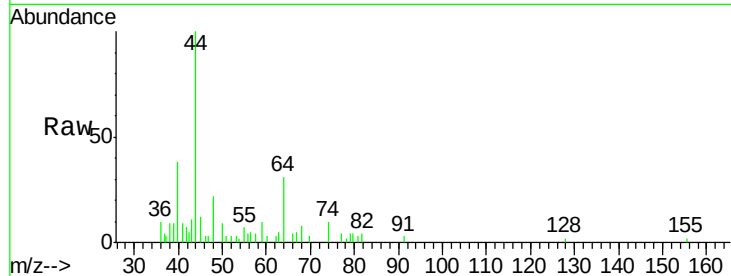
ClientSampled :

Tot Ion: 74 Resp: 438

Ion Ratio Lower Upper

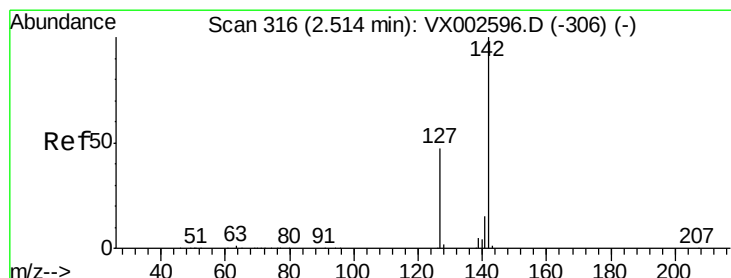
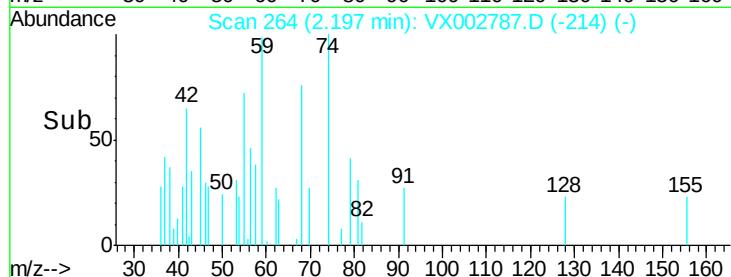
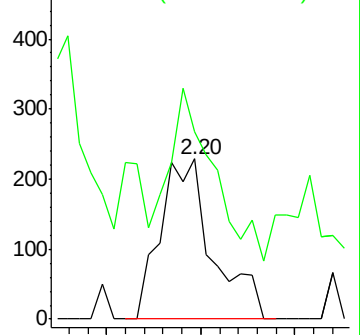
74 100

45 91.3 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: 5.51 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

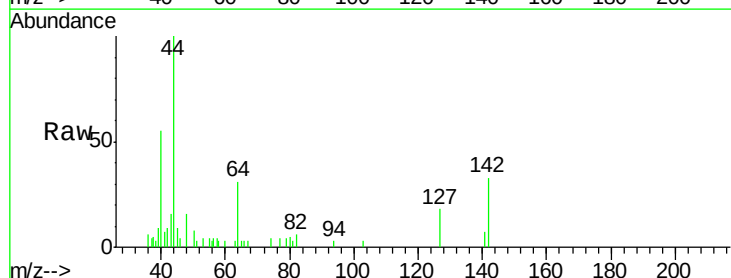
Tgt Ion:142 Resp: 1397

Ion Ratio Lower Upper

142 100

127 55.5 36.6 55.0#

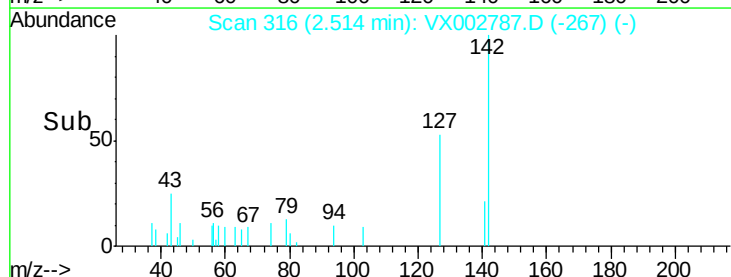
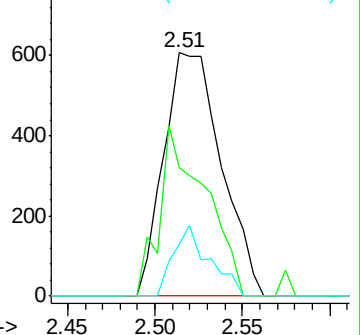
141 18.3 11.3 16.9#

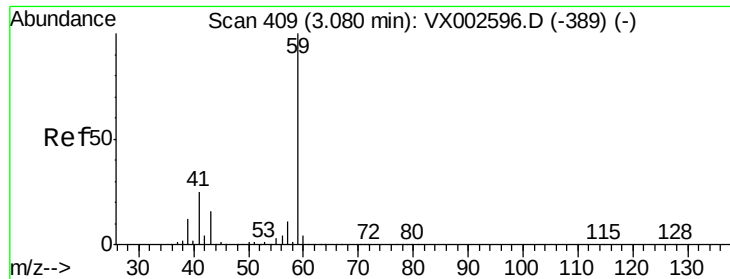


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



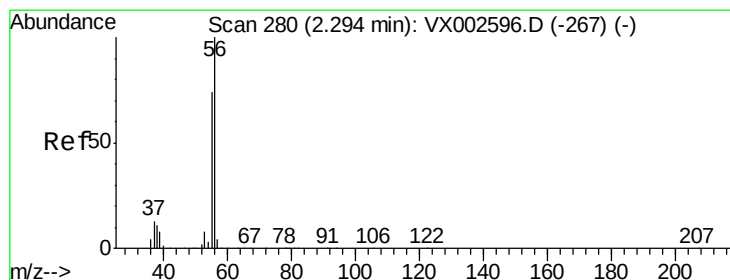
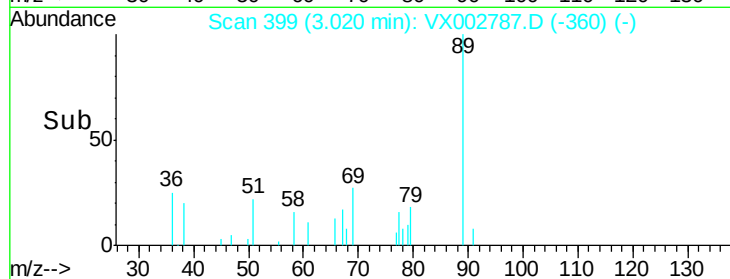
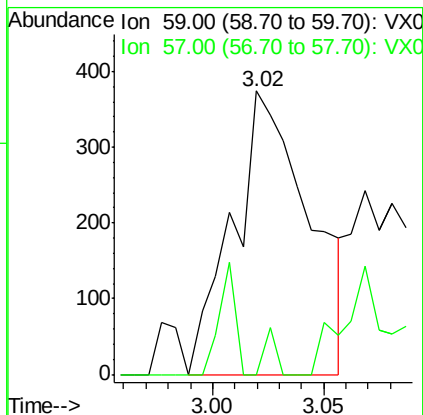
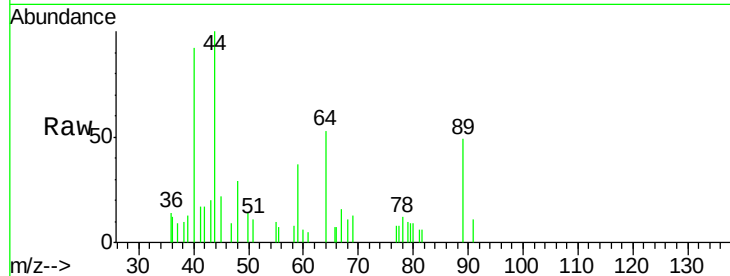


#11

Tert butyl alcohol
Concen: 1.19 ug/l
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002787.D
Acq: 21 Jun 2018 14:43

Instrument :
MSVOA_X
ClientSampled :

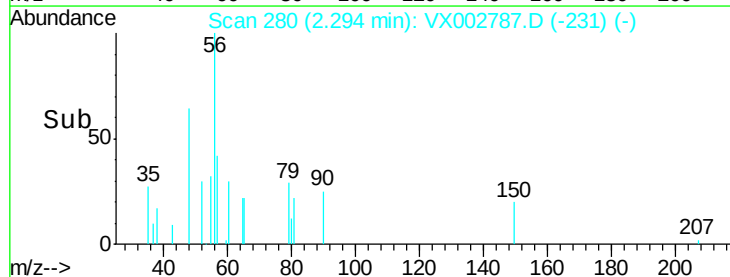
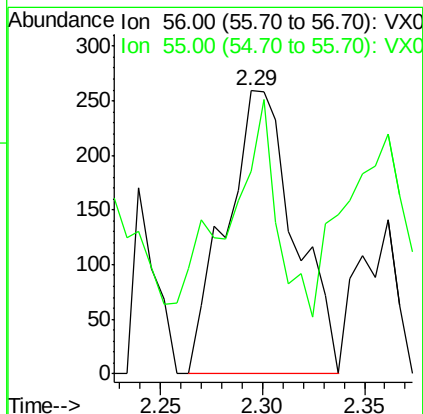
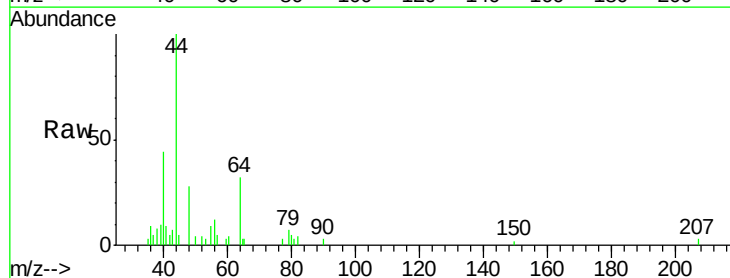
Tot Ion: 59 Resp: 887
Ion Ratio Lower Upper
59 100
57 2.5 8.2 12.2#

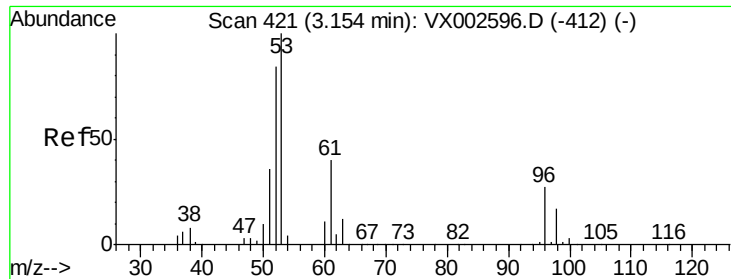


#13

Acrolein
Concen: 8.55 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX002787.D
Acq: 21 Jun 2018 14:43

Tgt Ion: 56 Resp: 607
Ion Ratio Lower Upper
56 100
55 53.4 57.0 85.4#





#15

Acrylonitrile

Concen: 0.25 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

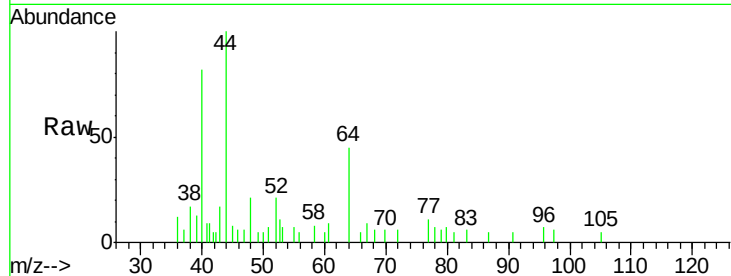
Tot Ion: 53 Resp: 411

Ion Ratio Lower Upper

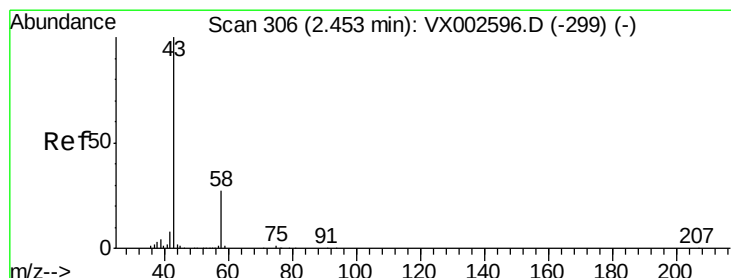
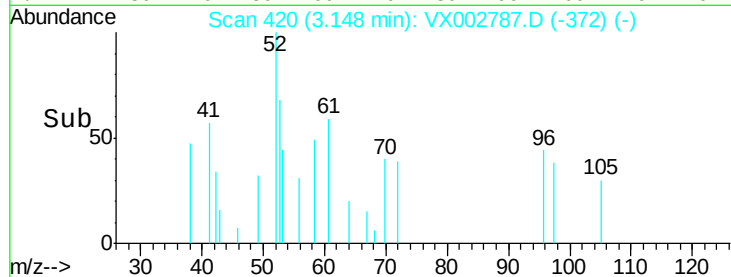
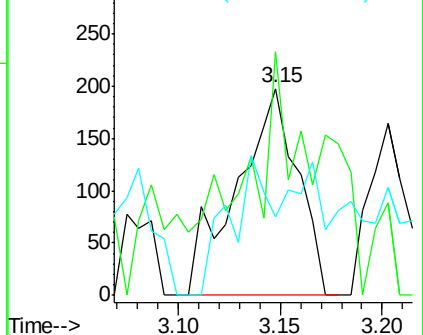
53 100

52 51.6 66.7 100.1#

51 46.0 29.9 44.9#



Abundance Ion 53.00 (52.70 to 53.70): VX0
Ion 52.00 (51.70 to 52.70): VX0
Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: 10.18 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002787.D

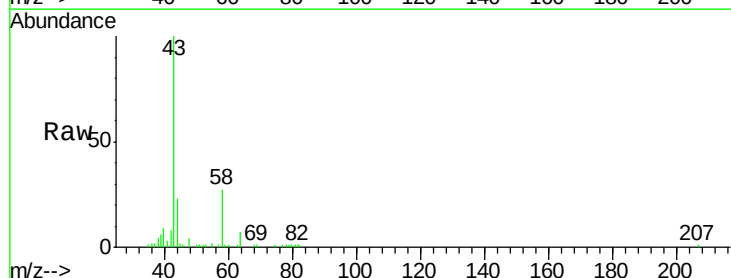
Acq: 21 Jun 2018 14:43

Tgt Ion: 43 Resp: 16199

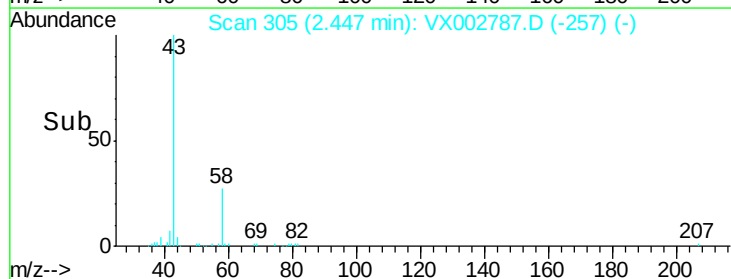
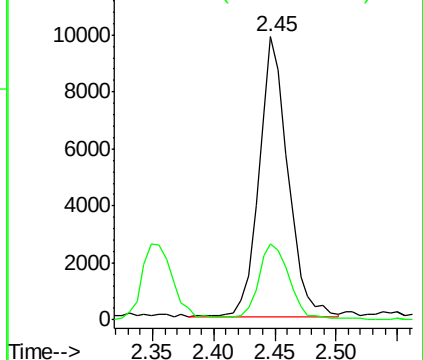
Ion Ratio Lower Upper

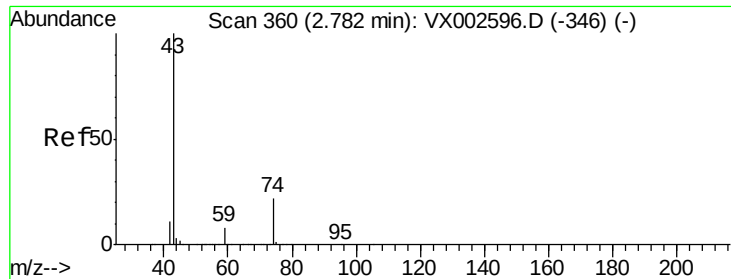
43 100

58 26.3 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0

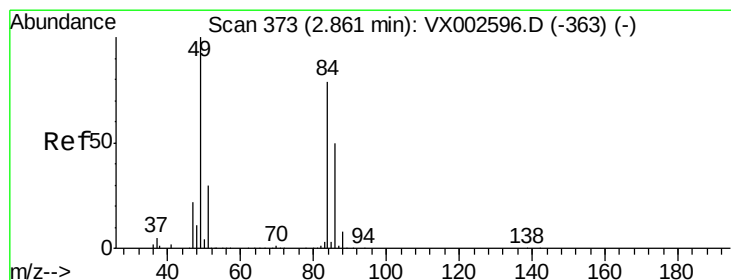
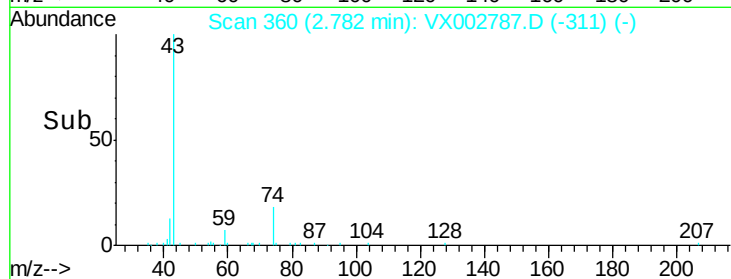
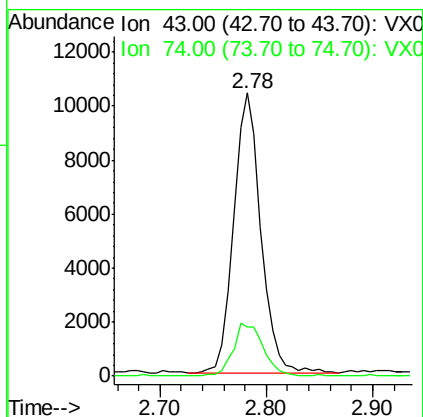
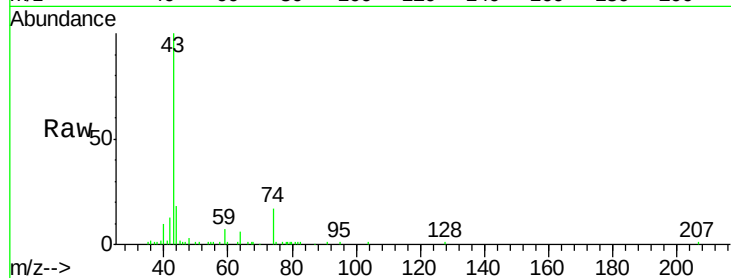




#18
Methvl Acetate
Concen: 4.39 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX002787.D
Acq: 21 Jun 2018 14:43

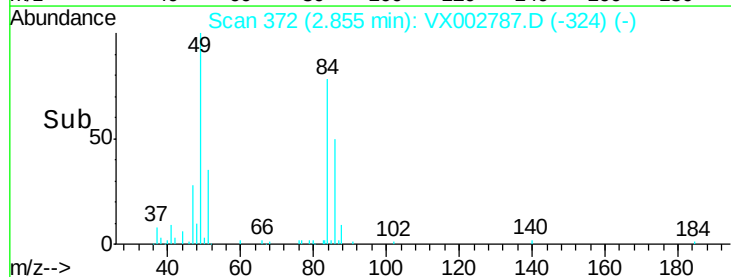
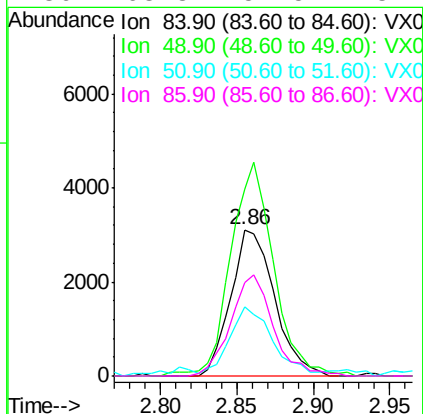
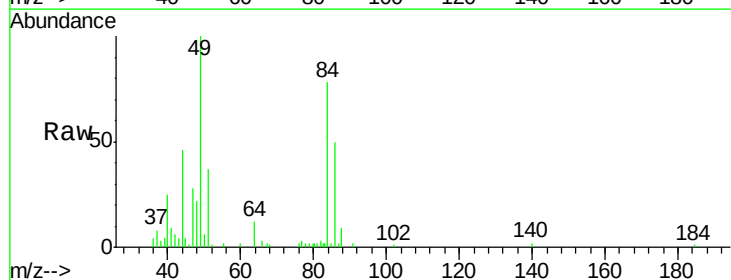
Instrument :
MSVOA_X
ClientSampleId :

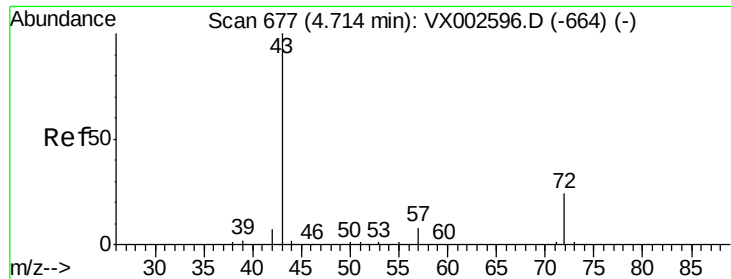
Tot Ion: 43 Resp: 18612
Ion Ratio Lower Upper
43 100
74 20.9 16.7 25.1



#20
Methylene Chloride
Concen: 1.89 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002787.D
Acq: 21 Jun 2018 14:43

Tgt Ion: 84 Resp: 6166
Ion Ratio Lower Upper
84 100
49 125.8 107.8 161.6
51 44.4 32.8 49.2
86 63.8 52.5 78.7





#25

2-Butanone

Concen: 2.03 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

Instrument :

MSVOA_X

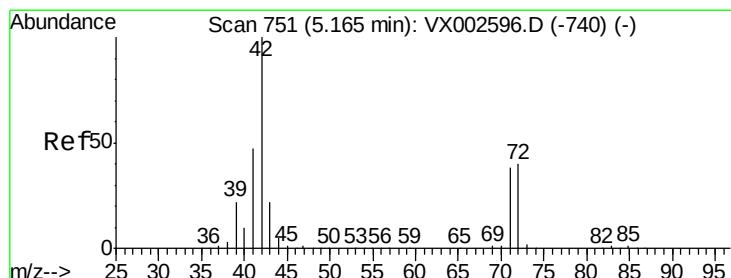
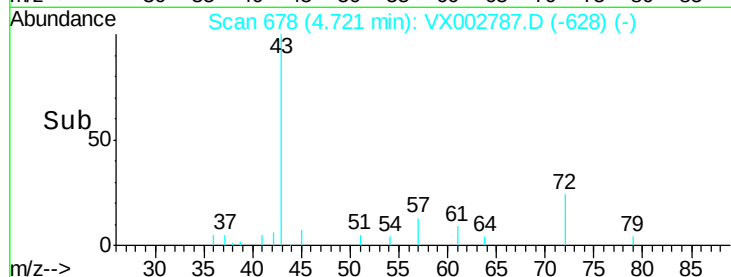
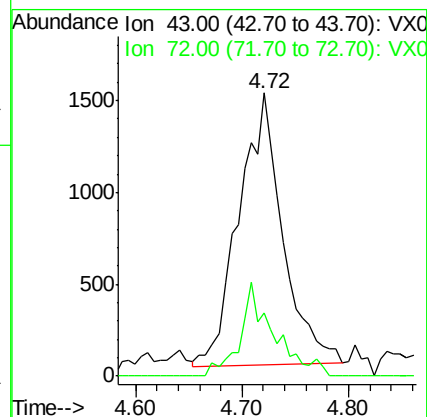
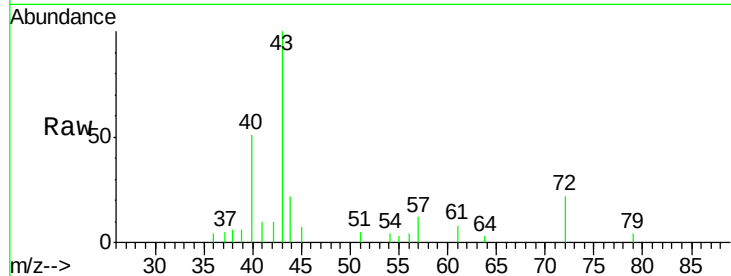
ClientSampled :

Tot Ion: 43 Resp: 4245

Ion Ratio Lower Upper

43 100

72 23.5 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.90 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

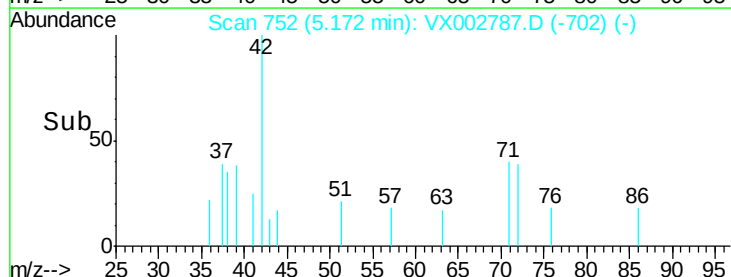
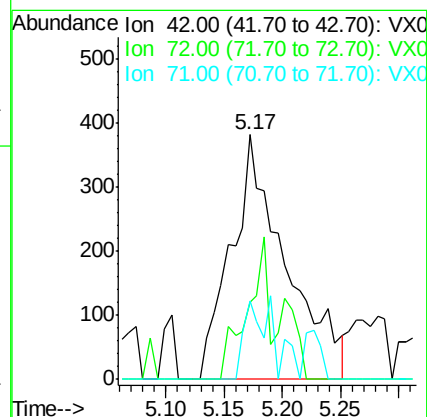
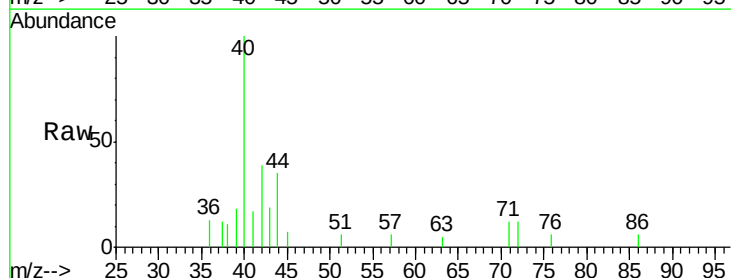
Tgt Ion: 42 Resp: 1237

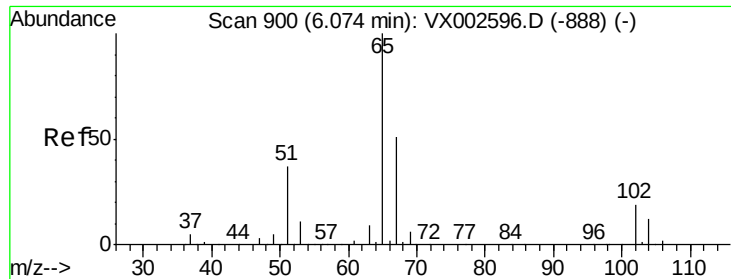
Ion Ratio Lower Upper

42 100

72 24.2 32.0 48.0#

71 17.4 30.1 45.1#

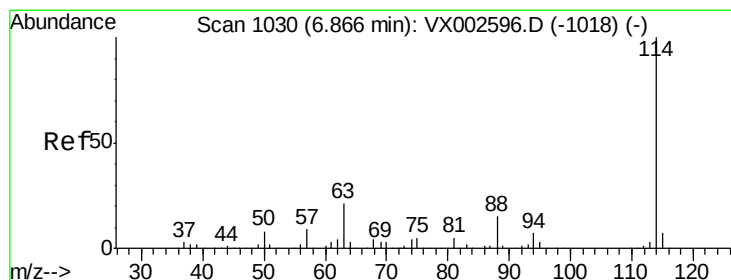
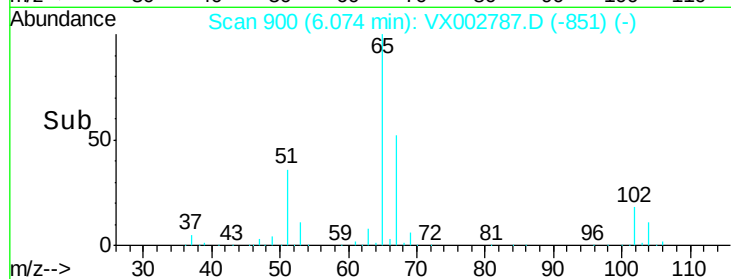
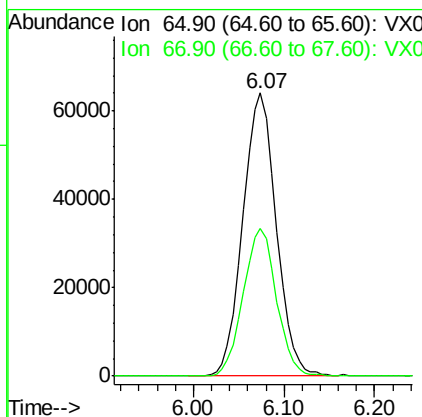
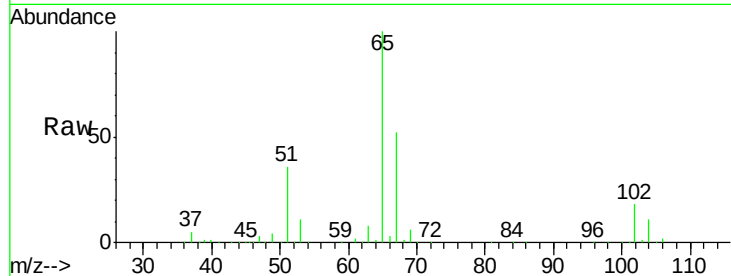




#33
 1,2-Dichloroethane-d4
 Concen: 45.33 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002787.D
 Acq: 21 Jun 2018 14:43

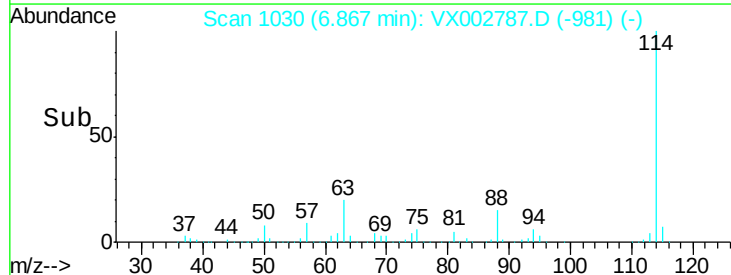
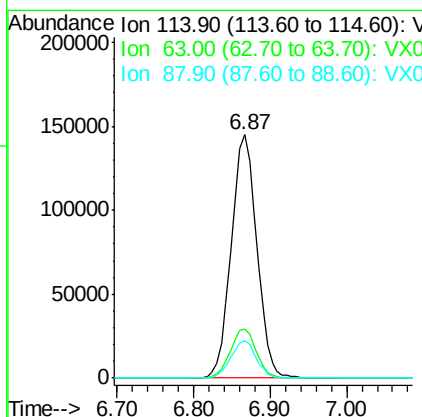
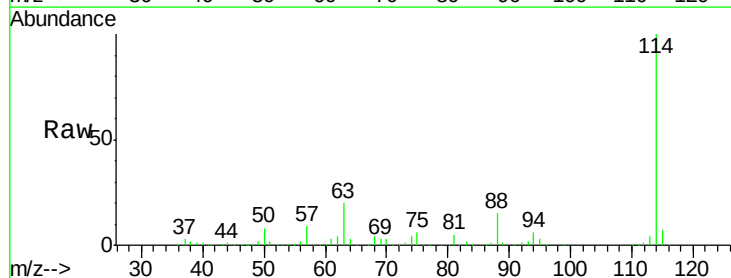
Instrument :
 MSVOA_X
 ClientSampleId :

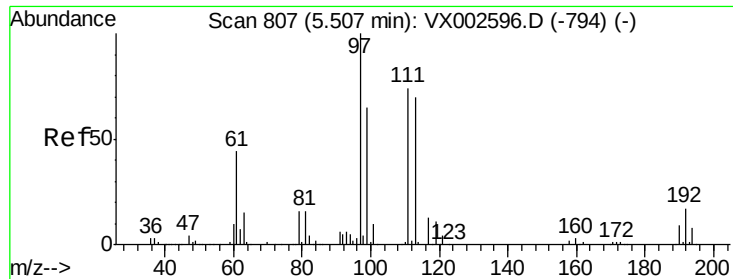
Tot Ion: 65 Resp: 163523
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002787.D
 Acq: 21 Jun 2018 14:43

Tgt Ion: 114 Resp: 336624
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 41.4
 88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 48.31 ug/l

RT: 5.51 min Scan# 807

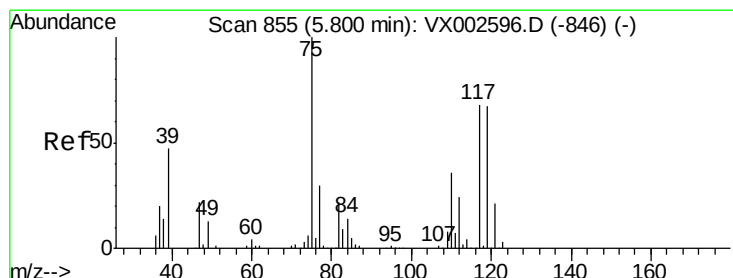
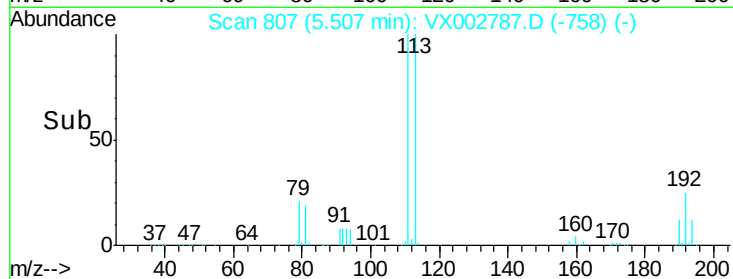
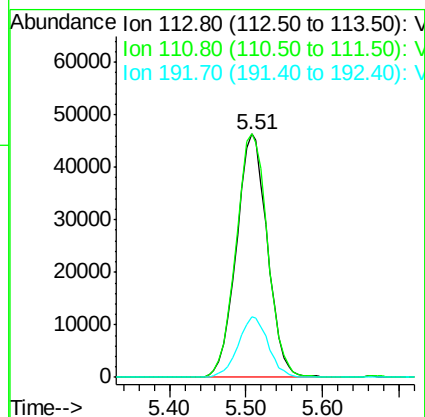
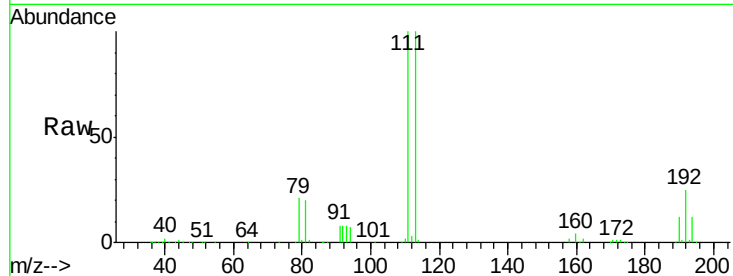
Delta R.T. 0.00 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	113	Resp:	129795
Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.4	122.0
192	24.1	19.1	28.7



#36

1,1-Dichloropropene

Concen: 4.58 ug/l

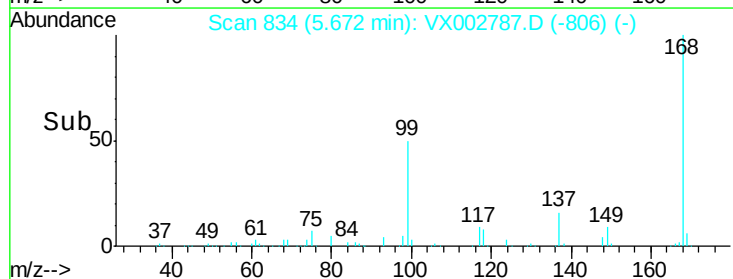
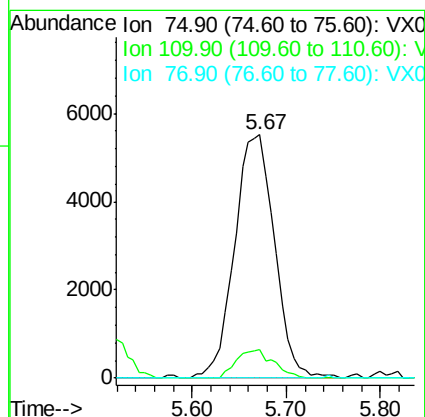
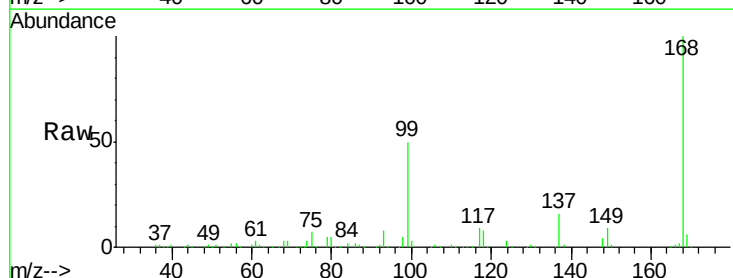
RT: 5.67 min Scan# 834

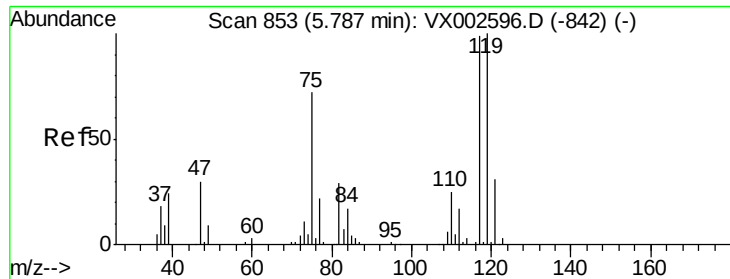
Delta R.T. -0.13 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

Tgt Ion:	75	Resp:	16359
Ion	Ratio	Lower	Upper
75	100		
110	10.8	18.1	54.4#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 6.13 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

Instrument :

MSVOA_X

ClientSampleId :

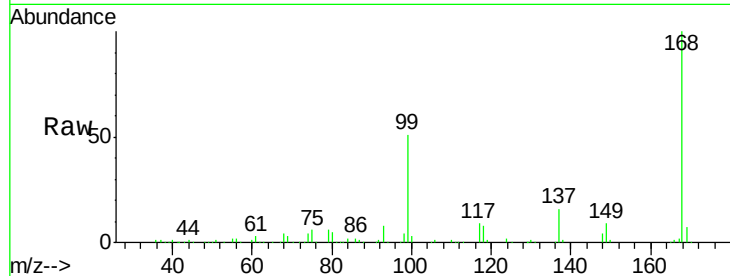
Tot Ion:117 Resp: 21827

Ion Ratio Lower Upper

117 100

119 6.2 77.4 116.0#

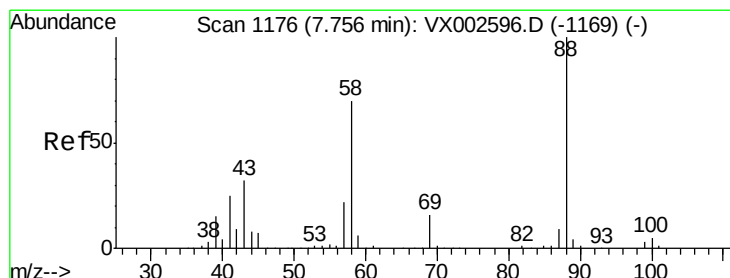
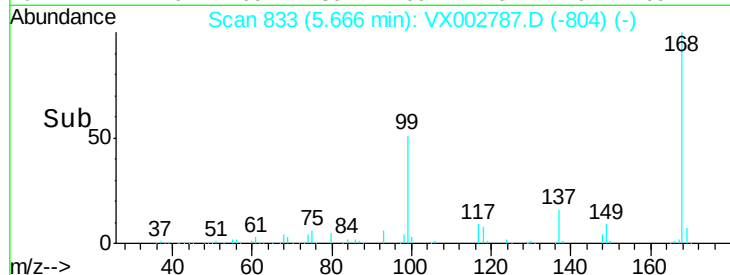
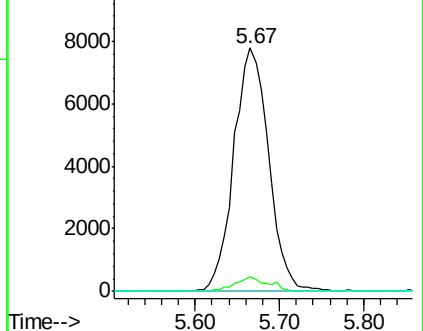
121 0.0 24.4 36.6#



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: 0.29 ug/l

RT: 7.72 min Scan# 1170

Delta R.T. -0.04 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

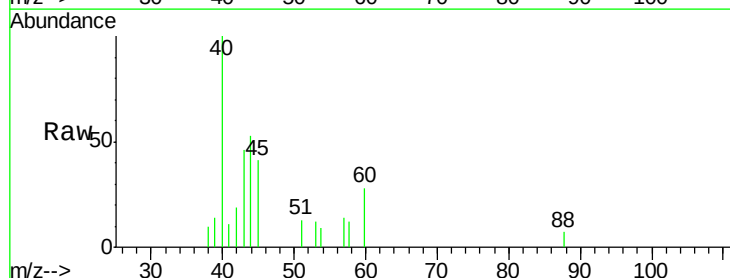
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 29.8 44.6#

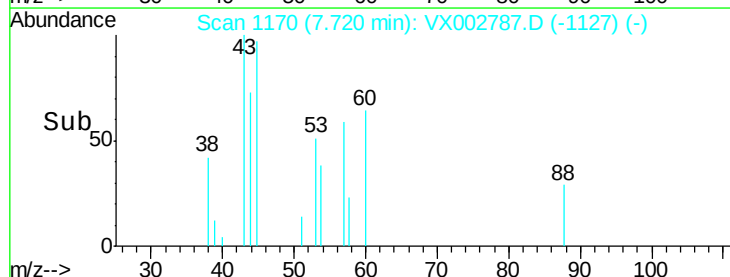
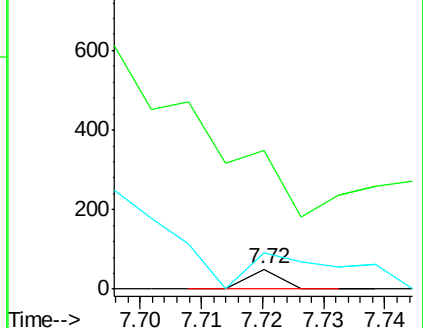
58 536.8 57.1 85.7#

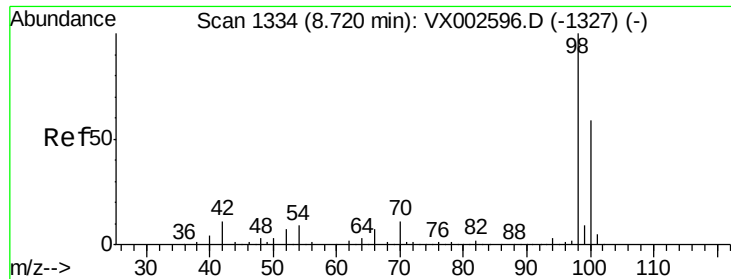


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

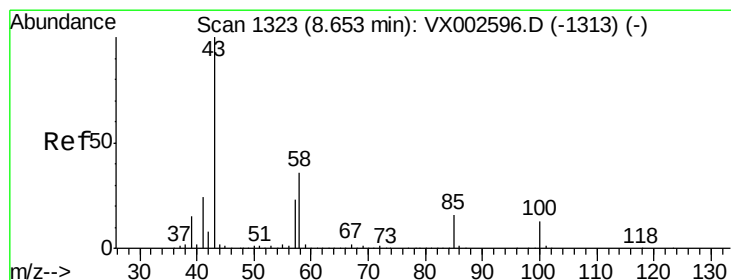
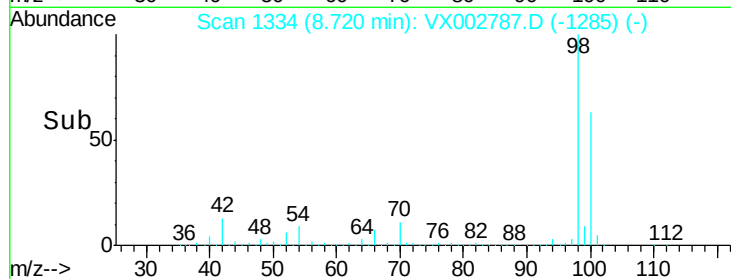
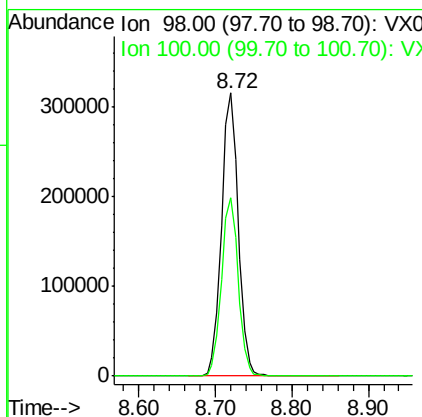
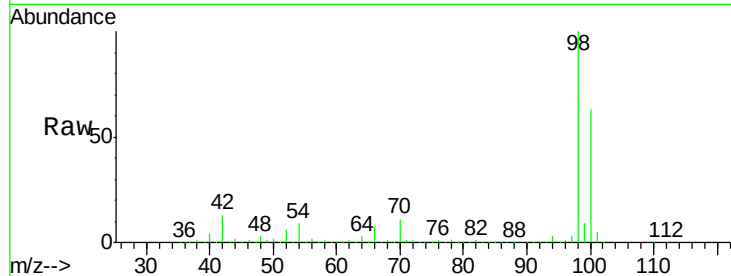




#50
Toluene-d8
Concen: 47.09 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX002787.D
Acq: 21 Jun 2018 14:43

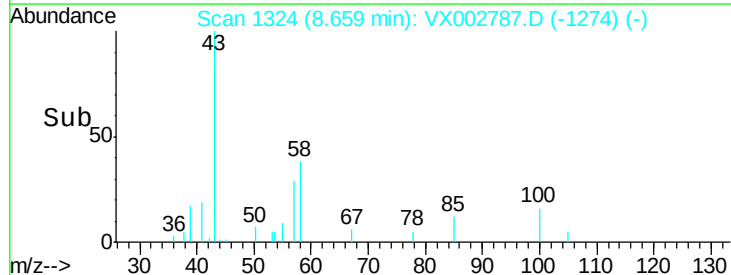
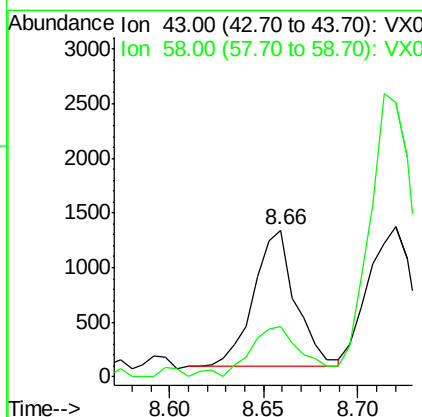
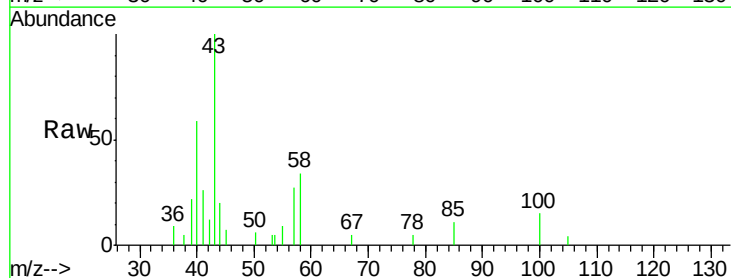
Instrument :
MSVOA_X
ClientSampleId :

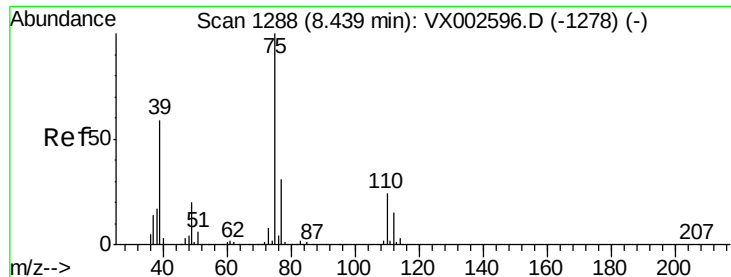
Tot Ion: 98 Resp: 480351
Ion Ratio Lower Upper
98 100
100 62.8 50.9 76.3



#51
4-Methyl-2-Pentanone
Concen: 0.45 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.01 min
Lab File: VX002787.D
Acq: 21 Jun 2018 14:43

Tgt Ion: 43 Resp: 1932
Ion Ratio Lower Upper
43 100
58 48.1 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: VX002787.D

Acq: 21 Jun 2018 14:43

Instrument :

MSVOA_X

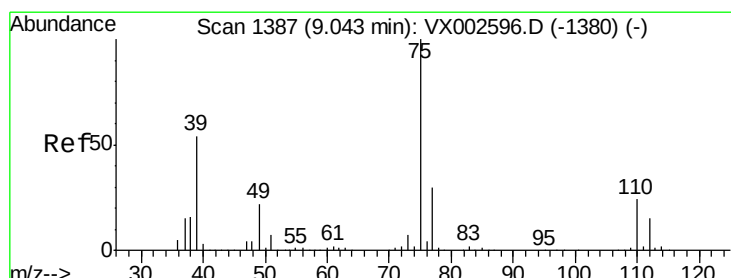
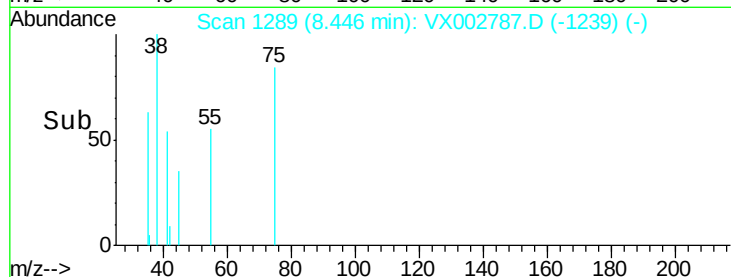
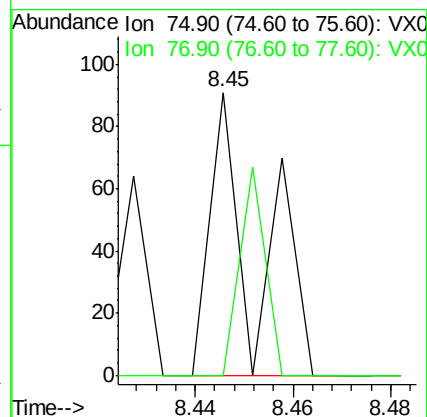
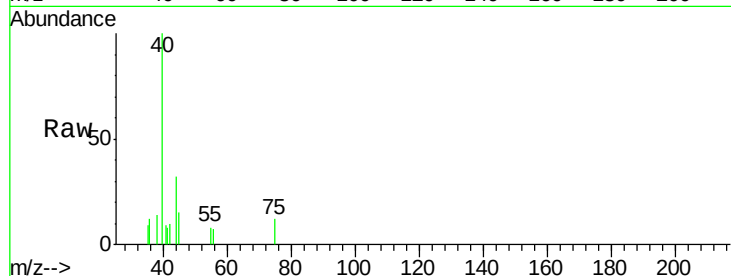
ClientSampled :

Tot Ion: 75 Resp: 59

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.2#



#54

cis-1,3-Dichloropropene

Concen: 3.24 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

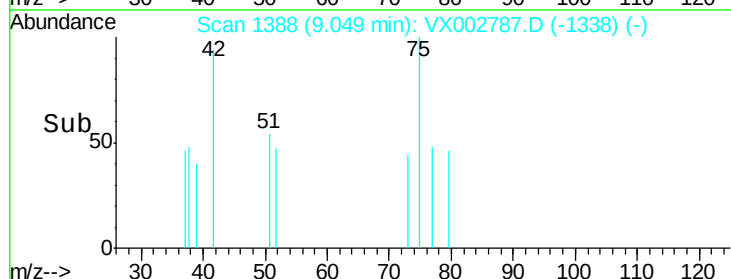
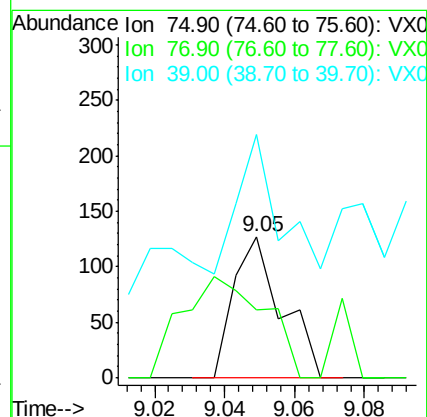
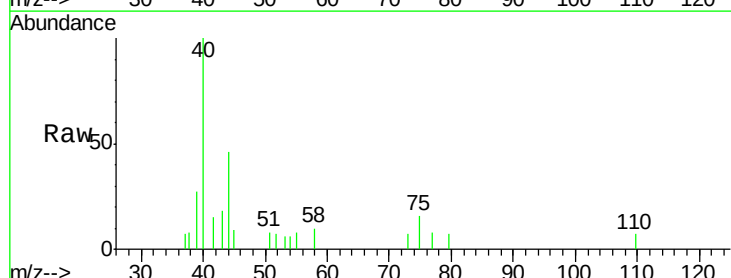
Tgt Ion: 75 Resp: 122

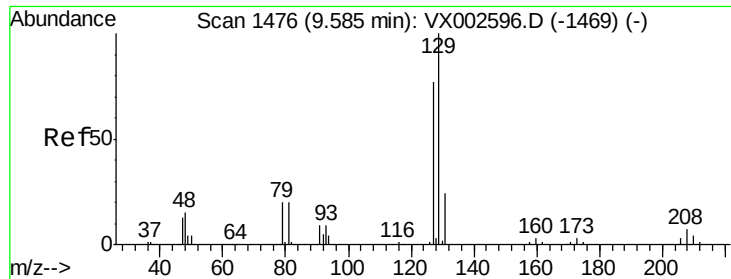
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 90.6 42.4 63.6#





#60

Dibromochloromethane

Concen: 3.82 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

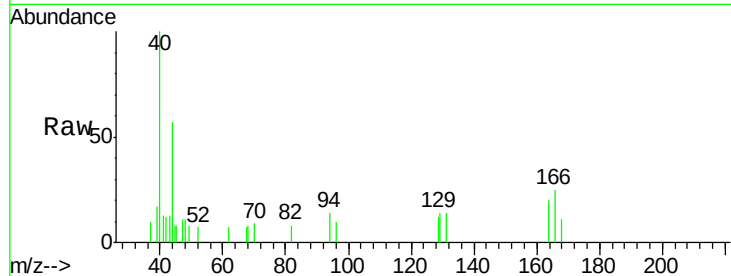
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:129 Resp: 215

Ion Ratio Lower Upper

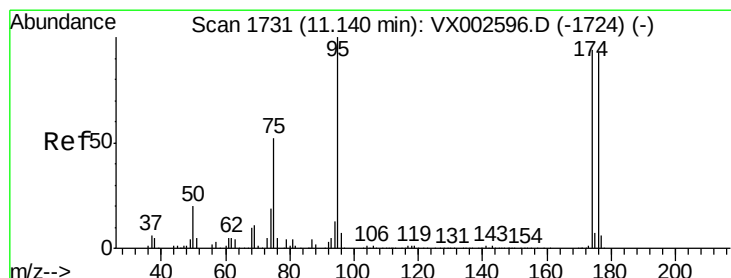
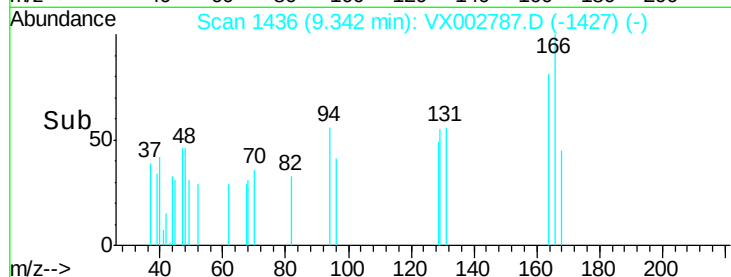
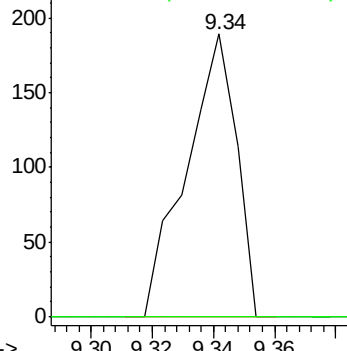
129 100

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: 43.87 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

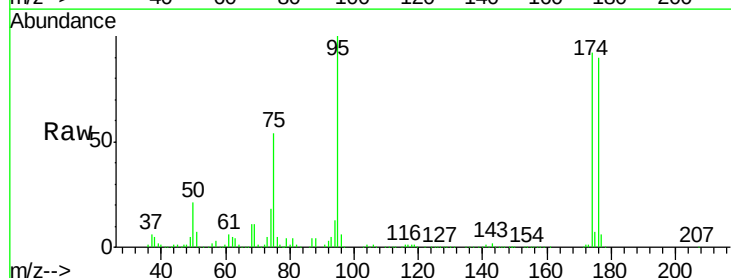
Tgt Ion: 95 Resp: 169561

Ion Ratio Lower Upper

95 100

174 97.1 0.0 187.4

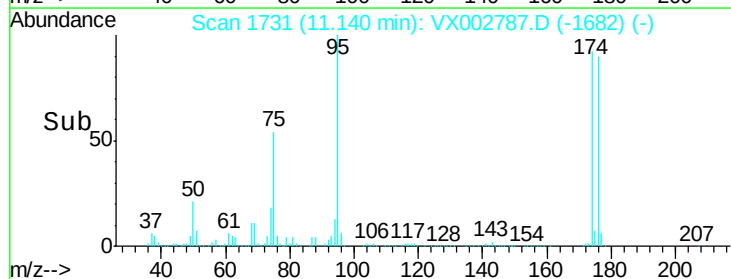
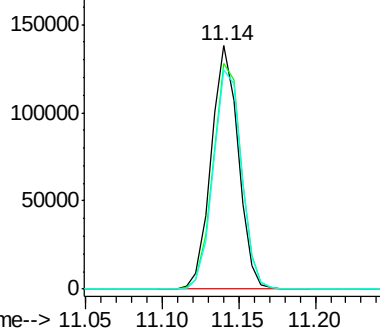
176 94.1 0.0 181.0

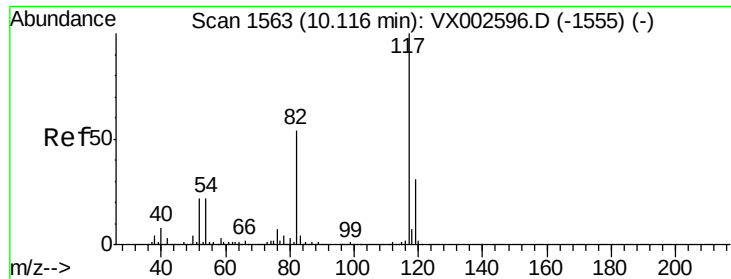


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

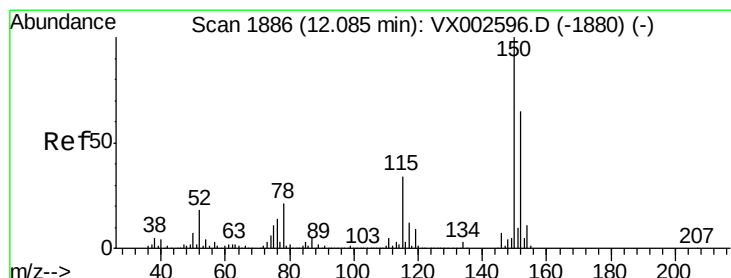
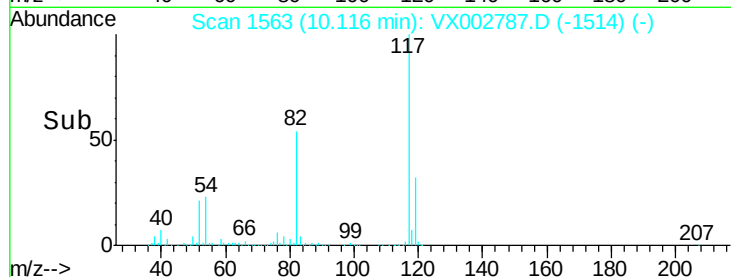
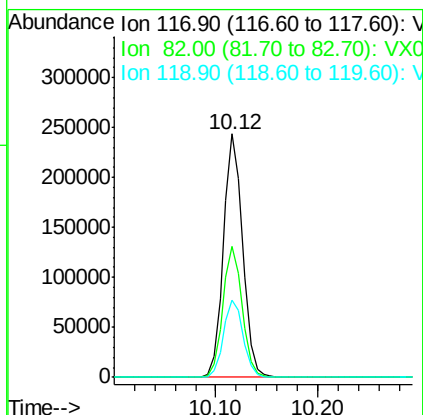
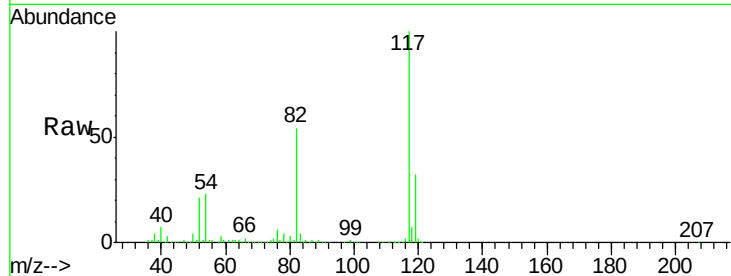




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002787.D
Acq: 21 Jun 2018 14:43

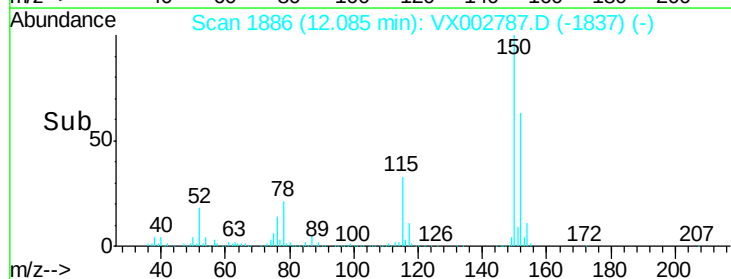
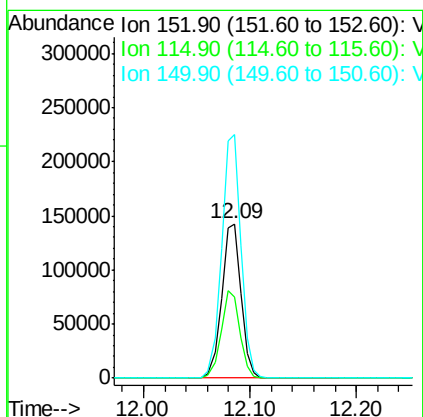
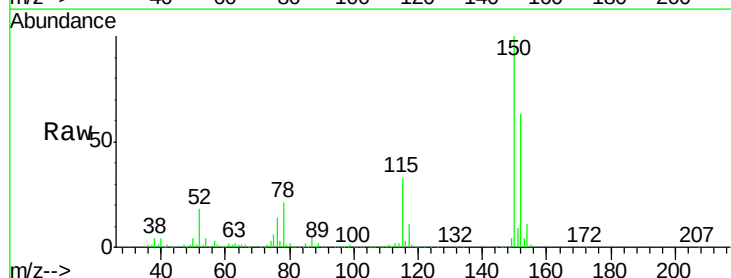
Instrument :
MSVOA_X
ClientSampleId :

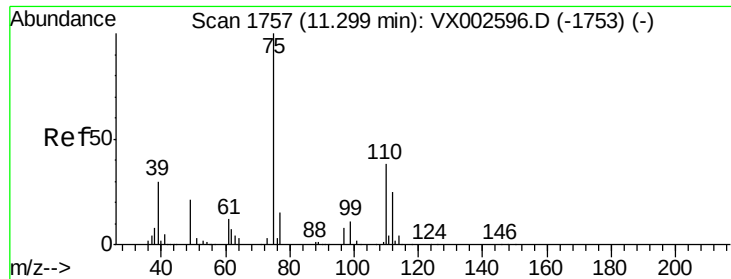
Tot Ion:117 Resp: 318894
Ion Ratio Lower Upper
117 100
82 54.0 45.0 67.4
119 32.0 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002787.D
Acq: 21 Jun 2018 14:43

Tgt Ion:152 Resp: 179898
Ion Ratio Lower Upper
152 100
115 55.1 40.1 120.2
150 158.1 0.0 347.2





#76

1,2,3-Trichloropropane

Concen: 26.91 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

Instrument :

MSVOA_X

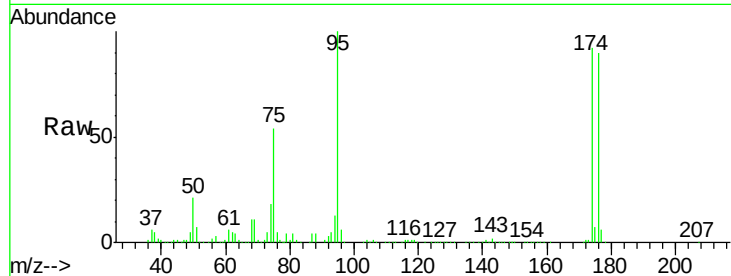
ClientSampleId :

Tot Ion: 75 Resp: 91337

Ion Ratio Lower Upper

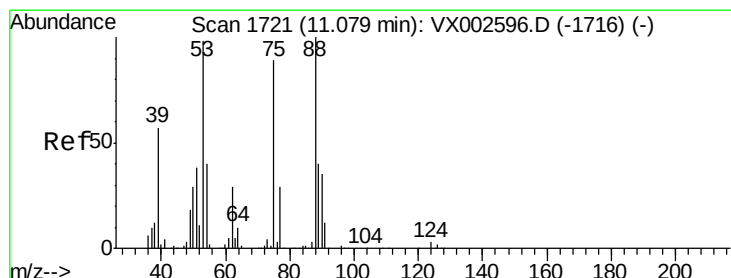
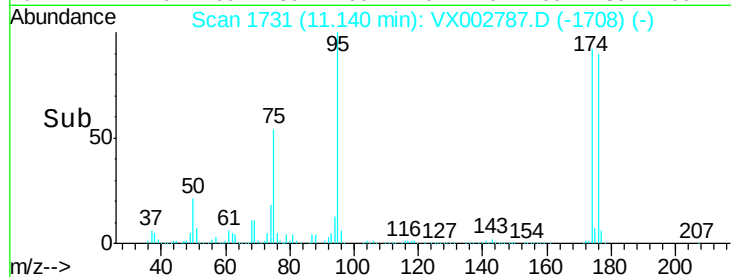
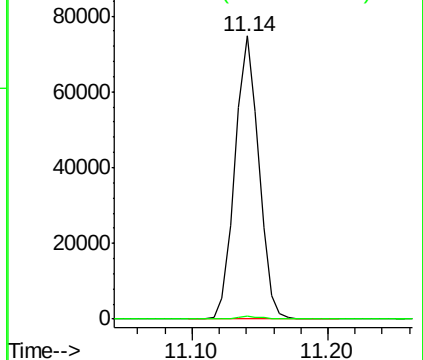
75 100

77 1.2 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: 83.07 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002787.D

Acq: 21 Jun 2018 14:43

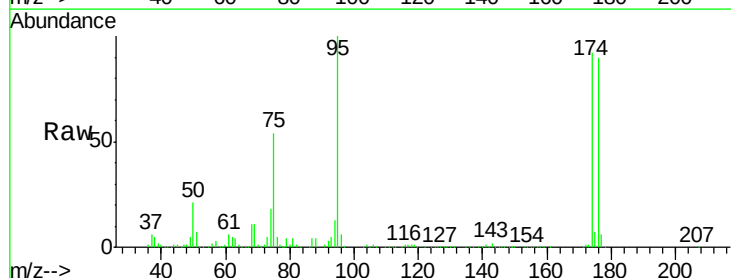
Tgt Ion: 75 Resp: 91337

Ion Ratio Lower Upper

75 100

53 0.0 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

