

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002751.D
 Acq On : 20 Jun 2018 19:27
 Operator : JC/MD
 Sample : J3597-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 04:01:10 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	210638	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	297910	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	274704	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	157964	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	141137	44.09	ug/l	0.00
Spiked Amount			Recovery	=	88.18%	
35) Dibromofluoromethane	5.51	113	115315	48.50	ug/l	0.00
Spiked Amount			Recovery	=	97.00%	
50) Toluene-d8	8.72	98	417108	46.20	ug/l	0.00
Spiked Amount			Recovery	=	92.40%	
62) 4-Bromofluorobenzene	11.14	95	148385	43.38	ug/l	0.00
Spiked Amount			Recovery	=	86.76%	

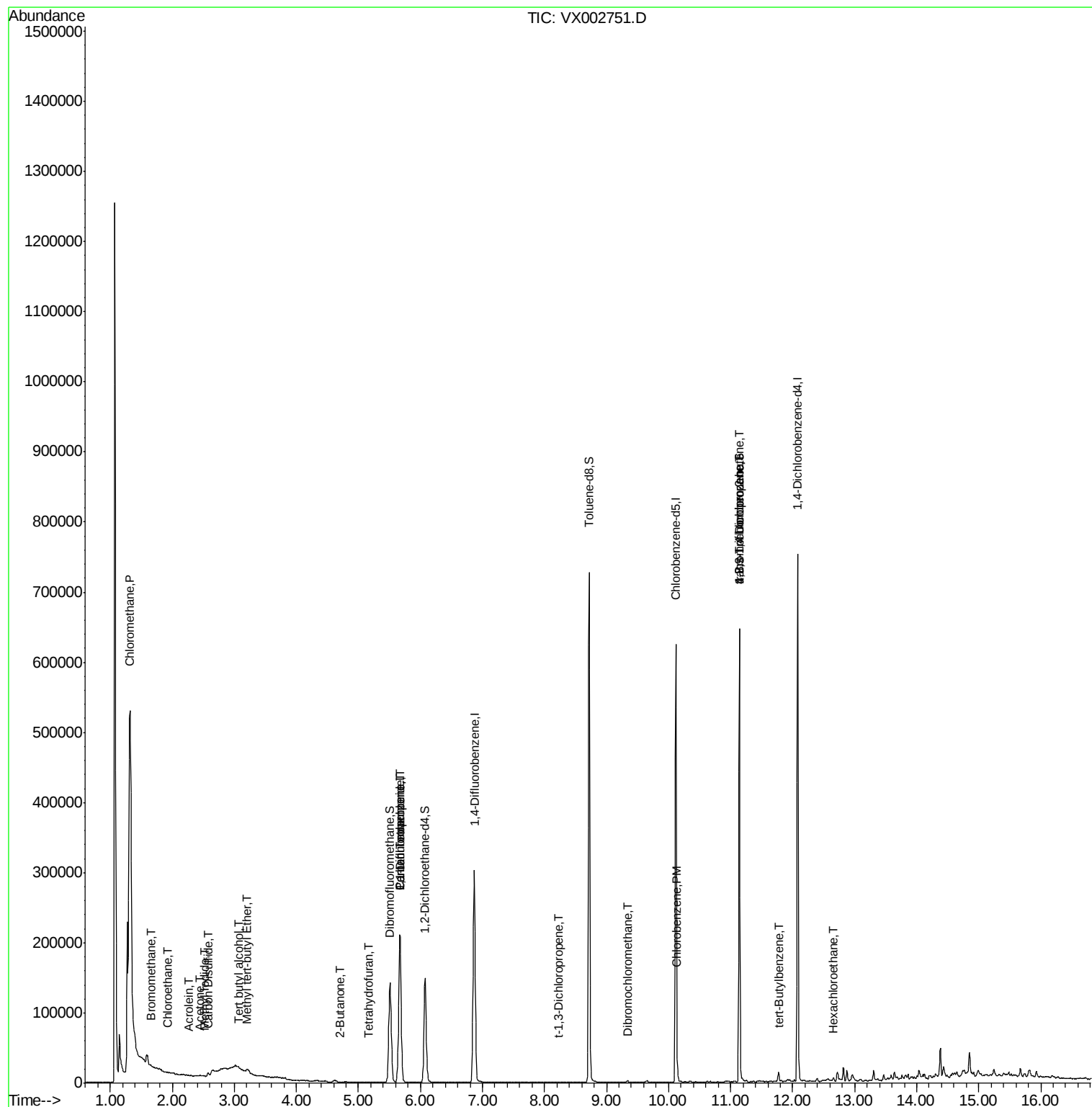
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	24079	9.05	ug/l #	46
5) Bromomethane	1.66	94	1007	0.60	ug/l #	81
6) Chloroethane	1.92	64	623	0.34	ug/l	94
10) Methyl Iodide	2.51	142	1528	5.59	ug/l	95
11) Tert butyl alcohol	3.08	59	1318	1.99	ug/l #	78
13) Acrolein	2.28	56	311	7.84	ug/l #	51
16) Acetone	2.45	43	1288	0.91	ug/l	96
17) Carbon Disulfide	2.57	76	8416	1.51	ug/l #	94
19) Methyl tert-butyl Ether	3.21	73	4765	0.54	ug/l	93
25) 2-Butanone	4.71	43	535	0.29	ug/l #	52
29) Tetrahydrofuran	5.16	42	389	0.32	ug/l #	36
36) 1,1-Dichloropropene	5.67	75	14214	4.49	ug/l #	51
38) Carbon Tetrachloride	5.67	117	19058	6.05	ug/l #	16
53) t-1,3-Dichloropropene	8.21	75	19	2.40	ug/l #	43
60) Dibromochloromethane	9.34	129	412	3.90	ug/l #	11
65) Chlorobenzene	10.14	112	4909	0.73	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	79210	26.57	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	79210	82.10	ug/l #	7
83) tert-Butylbenzene	11.77	119	4353	0.51	ug/l	89
90) Hexachloroethane	12.66	117	54	2.66	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# 834

Delta R.T. 0.00 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

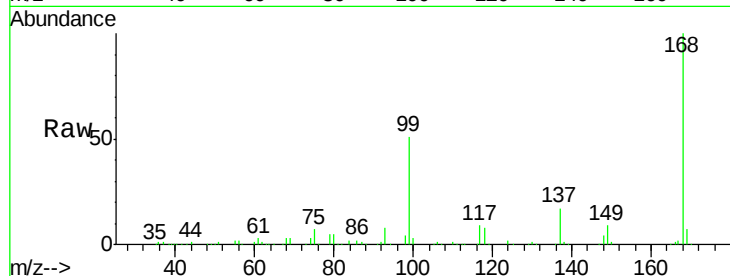
ClientSampleId :

Tot Ion:168 Resp: 210638

Ion Ratio Lower Upper

168 100

99 51.0 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

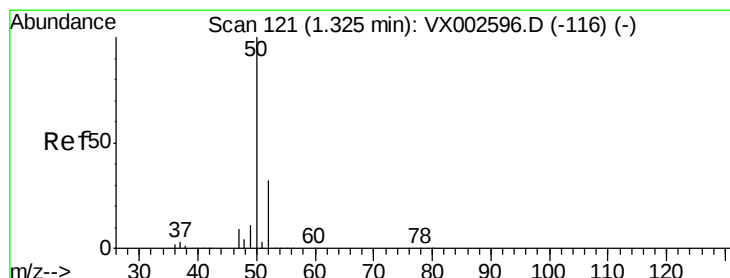
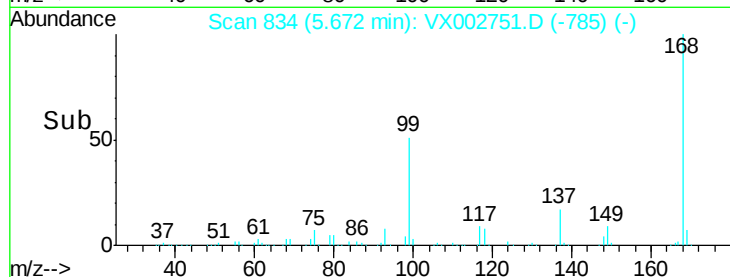
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: 9.05 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002751.D

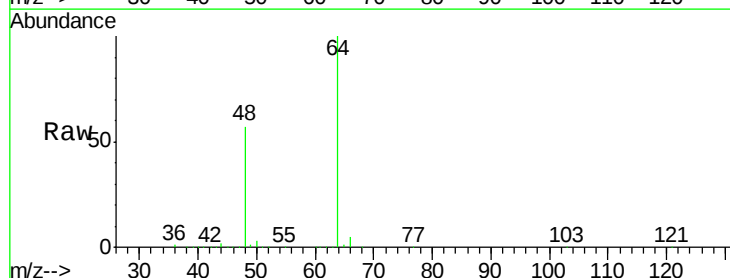
Acq: 20 Jun 2018 19:27

Tgt Ion: 50 Resp: 24079

Ion Ratio Lower Upper

50 100

52 1.8 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

10000

8000

6000

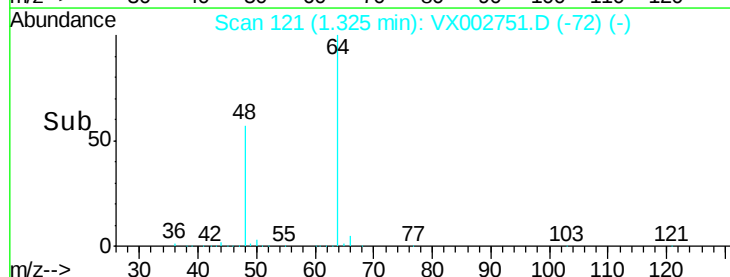
4000

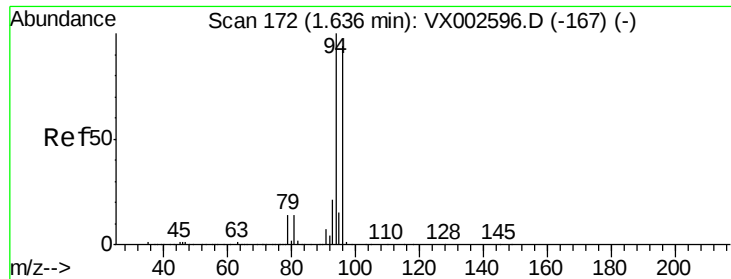
2000

0

Time-->

1.30 1.40





#5

Bromomethane

Concen: 0.60 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

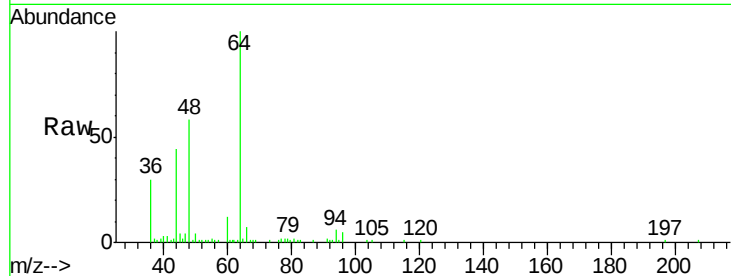
ClientSampleId :

Tot Ion: 94 Resp: 1007

Ion Ratio Lower Upper

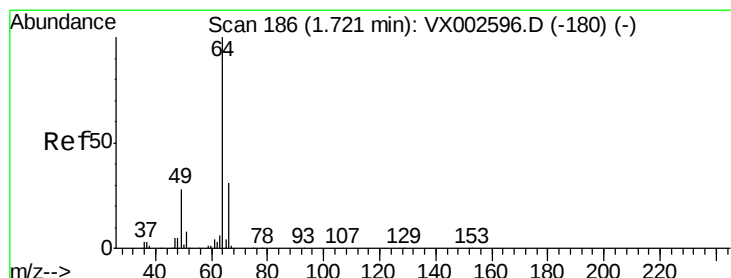
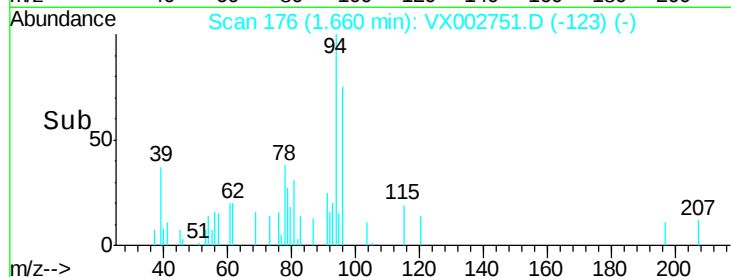
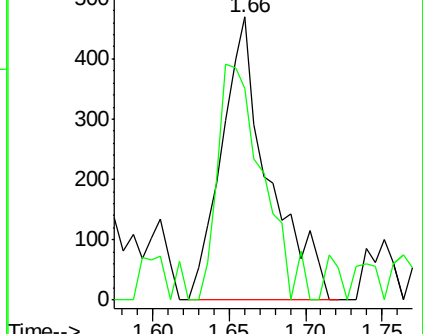
94 100

96 74.8 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: 0.34 ug/l

RT: 1.92 min Scan# 218

Delta R.T. 0.20 min

Lab File: VX002751.D

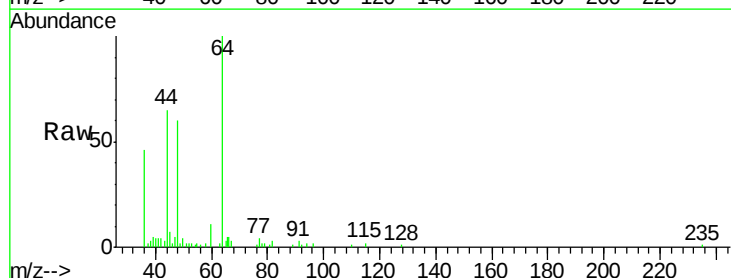
Acq: 20 Jun 2018 19:27

Tgt Ion: 64 Resp: 623

Ion Ratio Lower Upper

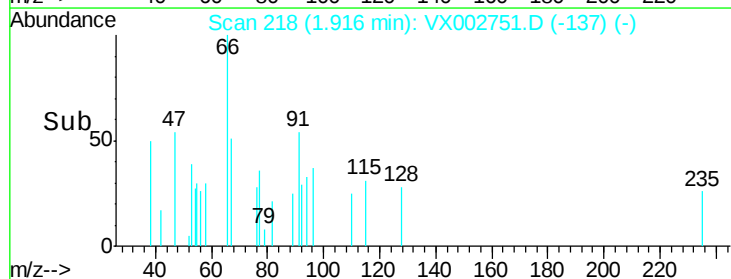
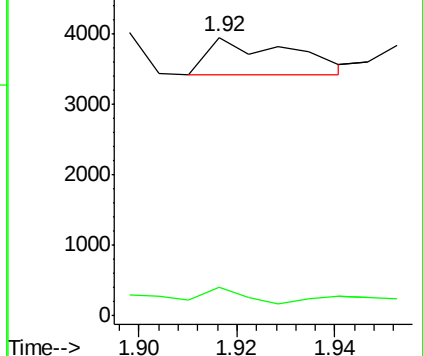
64 100

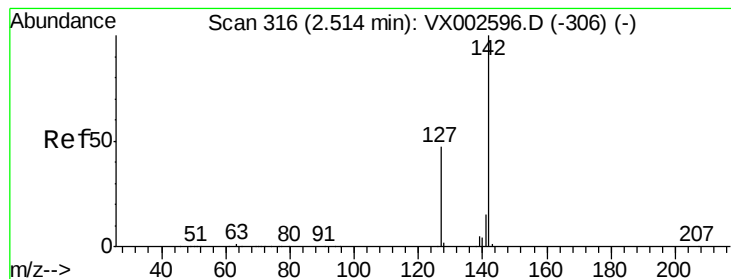
66 35.5 25.5 38.3



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 5.59 ug/l

RT: 2.51 min Scan# 316

Delta R.T. 0.00 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

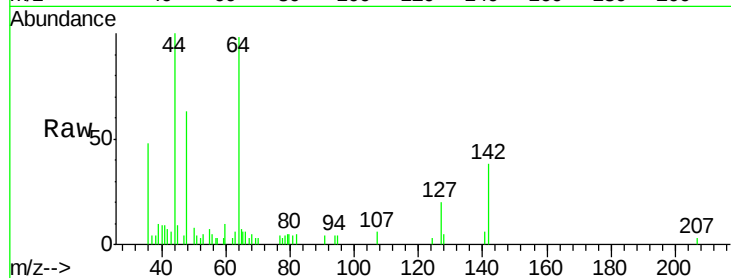
Tot Ion:142 Resp: 1528

Ion Ratio Lower Upper

142 100

127 49.0 36.6 55.0

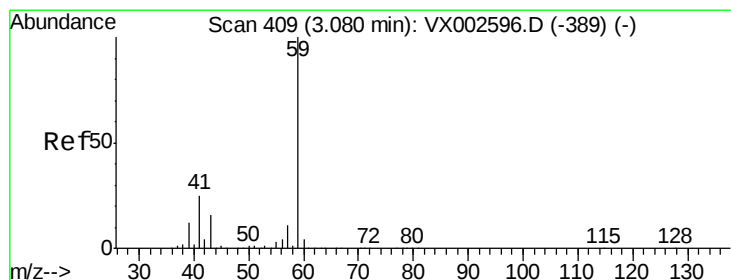
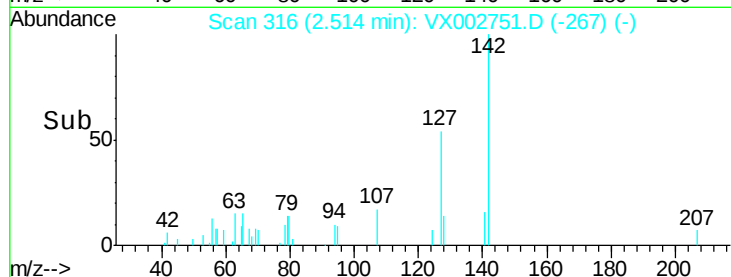
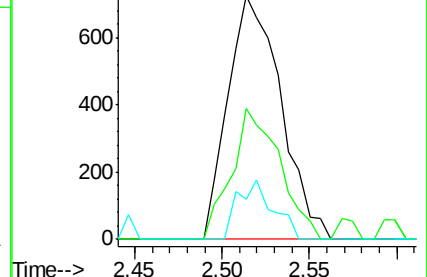
141 16.2 11.3 16.9



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: 1.99 ug/l

RT: 3.08 min Scan# 409

Delta R.T. 0.00 min

Lab File: VX002751.D

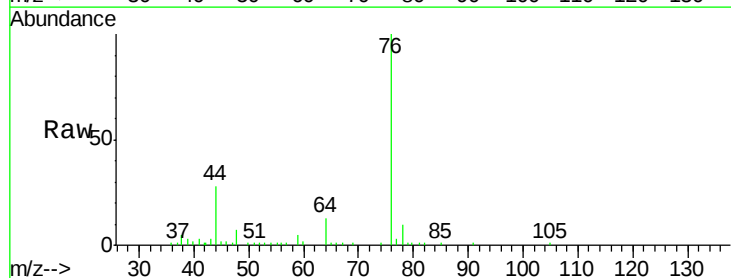
Acq: 20 Jun 2018 19:27

Tgt Ion: 59 Resp: 1318

Ion Ratio Lower Upper

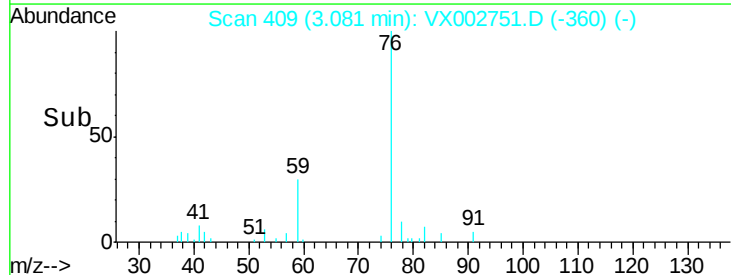
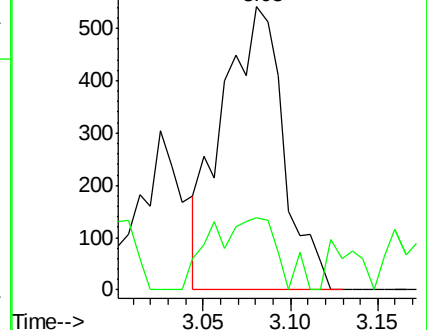
59 100

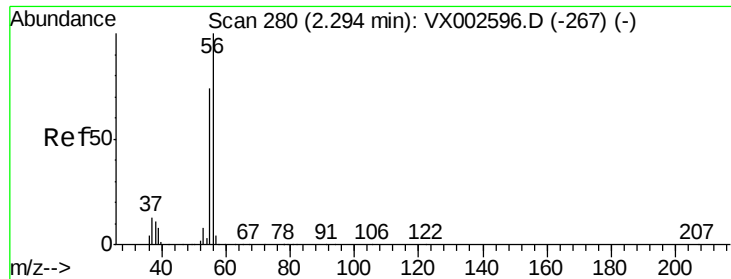
57 18.5 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 7.84 ug/l

RT: 2.28 min Scan# 277

Delta R.T. -0.02 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

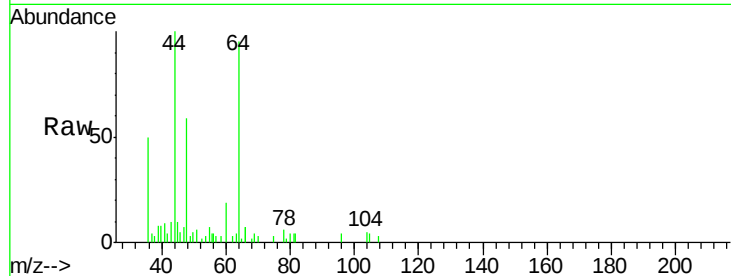
ClientSampleId :

Tot Ion: 56 Resp: 311

Ion Ratio Lower Upper

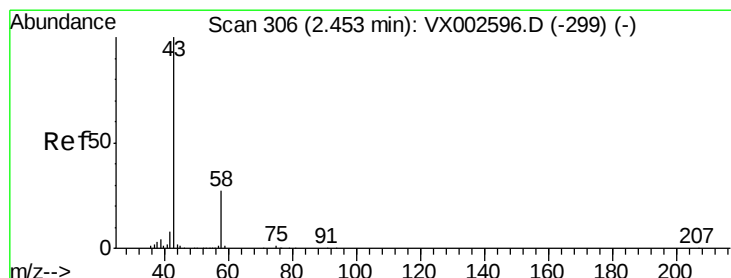
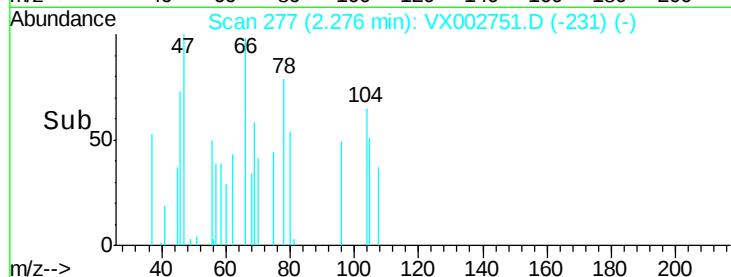
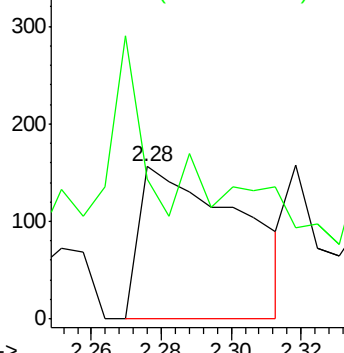
56 100

55 30.9 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 0.91 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002751.D

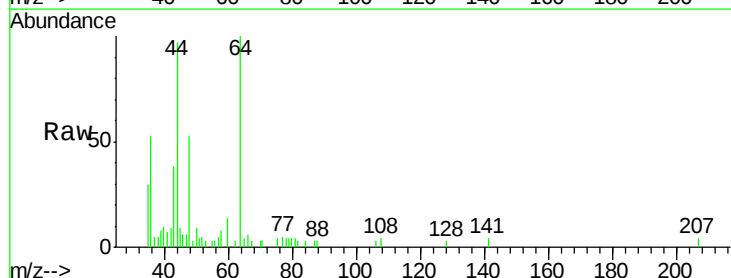
Acq: 20 Jun 2018 19:27

Tgt Ion: 43 Resp: 1288

Ion Ratio Lower Upper

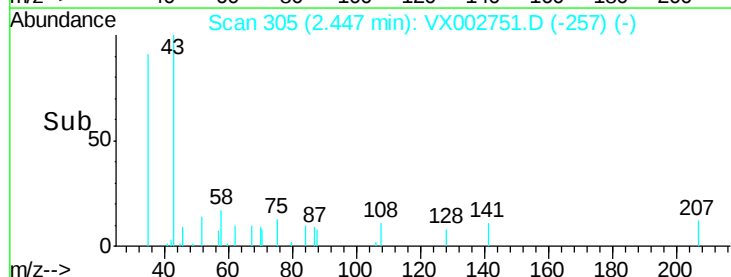
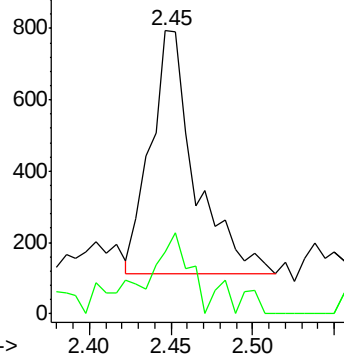
43 100

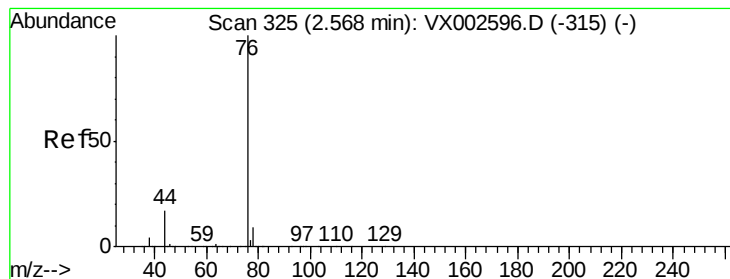
58 25.4 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.51 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

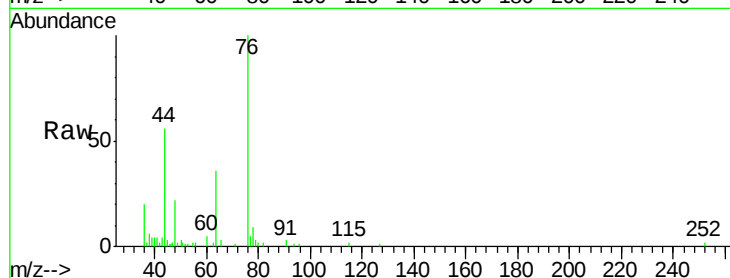
ClientSampleId :

Tot Ion: 76 Resp: 8416

Ion Ratio Lower Upper

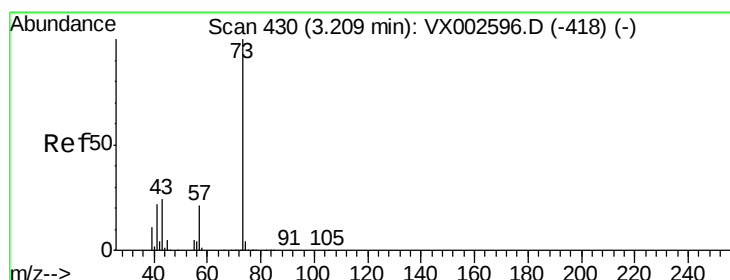
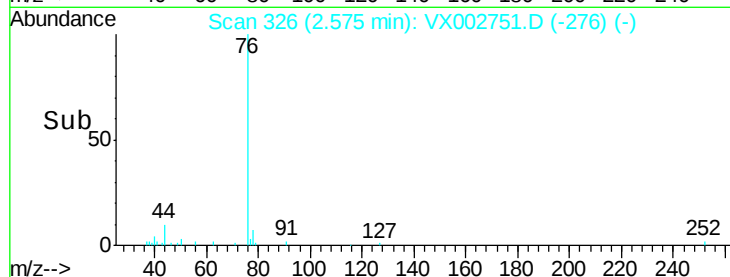
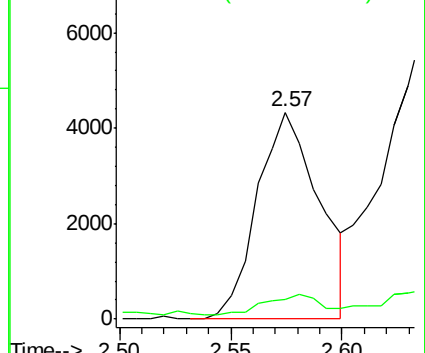
76 100

78 6.5 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#19

Methyl tert-butyl Ether

Concen: 0.54 ug/l

RT: 3.21 min Scan# 430

Delta R.T. 0.00 min

Lab File: VX002751.D

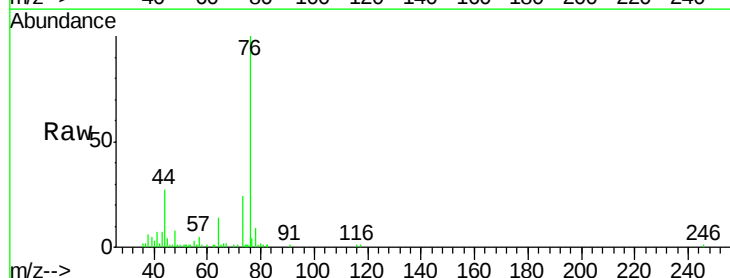
Acq: 20 Jun 2018 19:27

Tgt Ion: 73 Resp: 4765

Ion Ratio Lower Upper

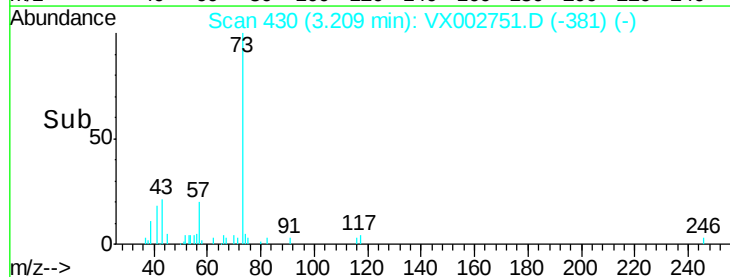
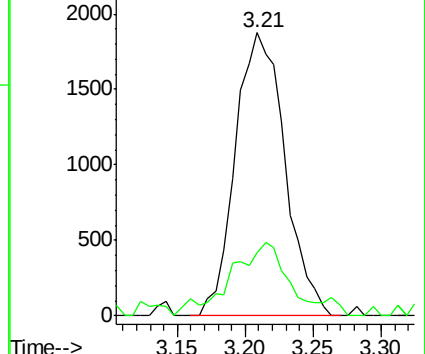
73 100

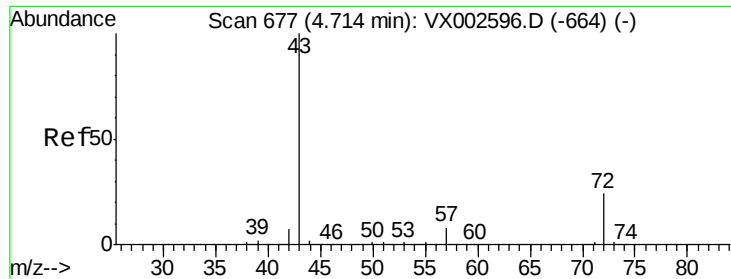
57 18.7 17.7 26.5



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#25

2-Butanone

Concen: 0.29 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

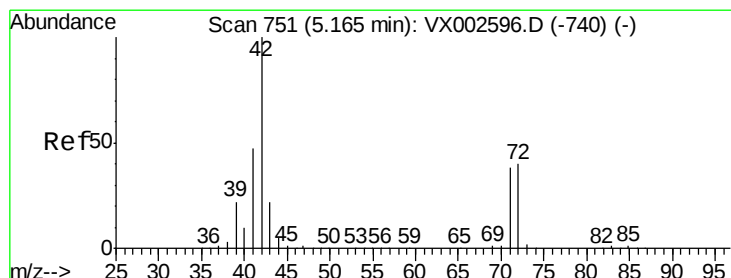
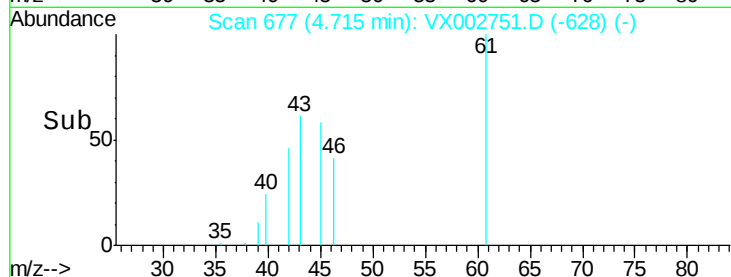
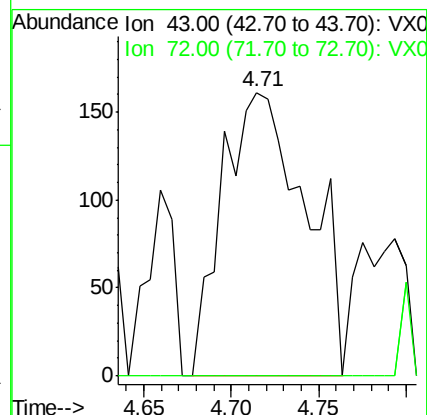
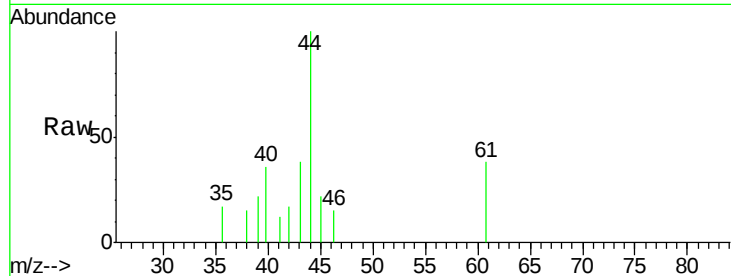
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 535

Ion Ratio Lower Upper

43 100

72 0.0 18.5 27.7#



#29

Tetrahydrofuran

Concen: 0.32 ug/l

RT: 5.16 min Scan# 750

Delta R.T. -0.01 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

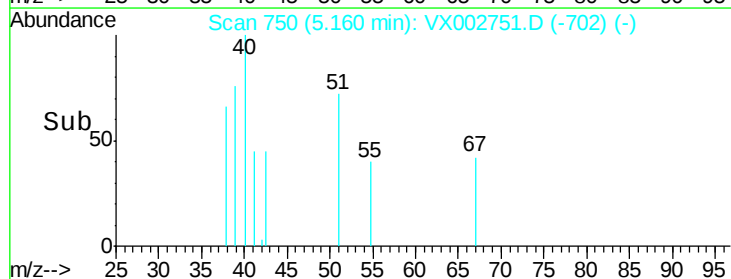
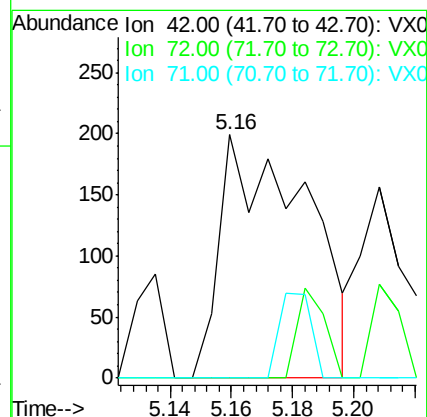
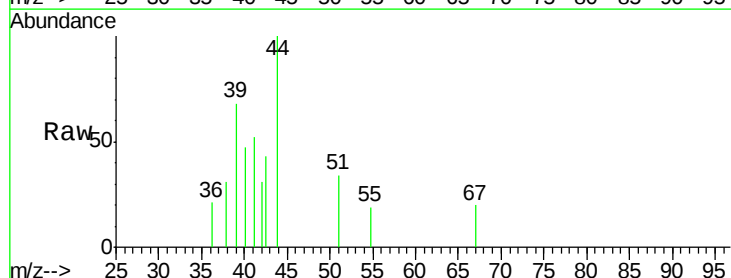
Tgt Ion: 42 Resp: 389

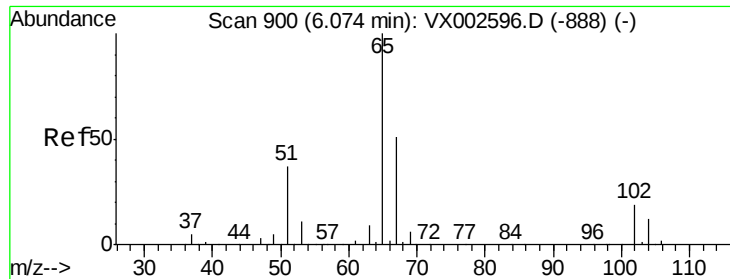
Ion Ratio Lower Upper

42 100

72 0.0 32.0 48.0#

71 0.0 30.1 45.1#

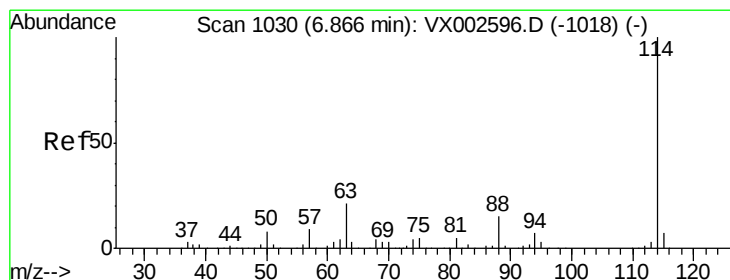
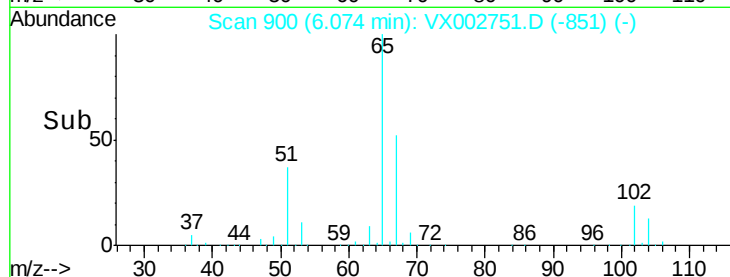
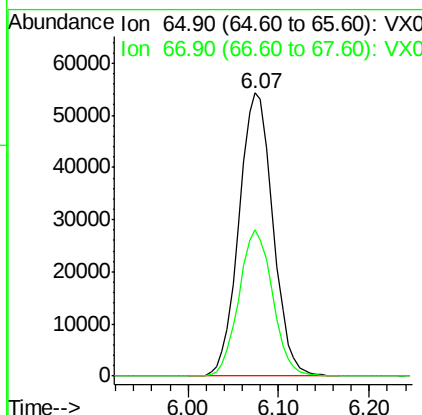
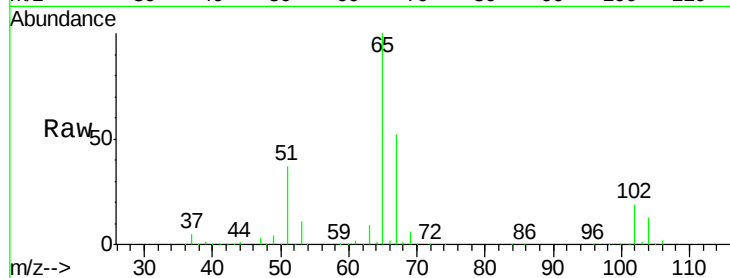




#33
 1,2-Dichloroethane-d4
 Concen: 44.09 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. 0.00 min
 Lab File: VX002751.D
 Acq: 20 Jun 2018 19:27

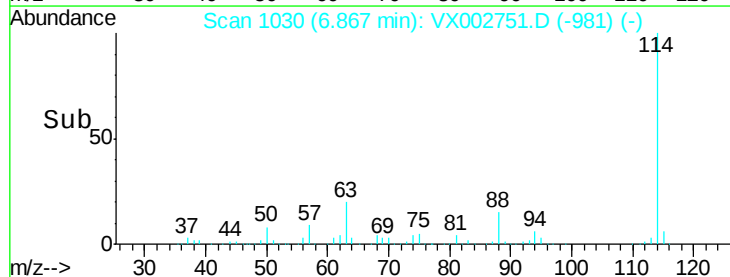
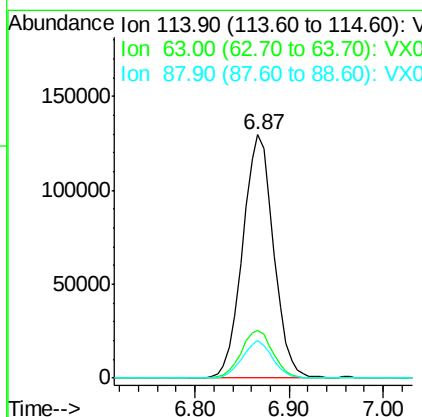
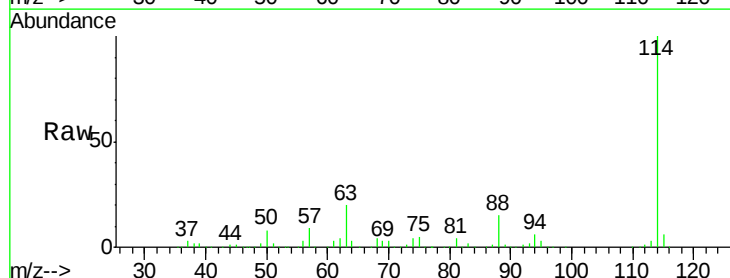
Instrument :
 MSVOA_X
 ClientSampleId :

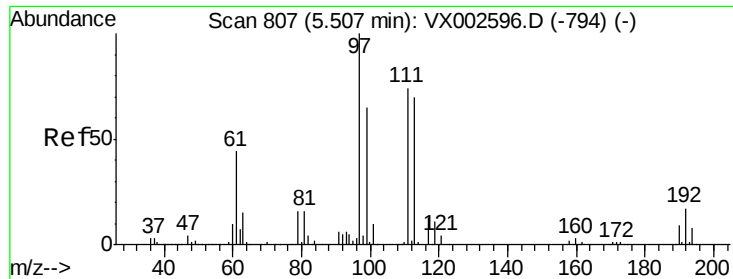
Tot Ion: 65 Resp: 141137
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX002751.D
 Acq: 20 Jun 2018 19:27

Tgt Ion: 114 Resp: 297910
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 41.4
 88 15.5 0.0 30.0

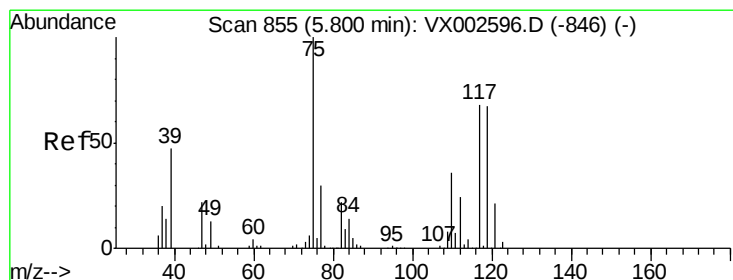
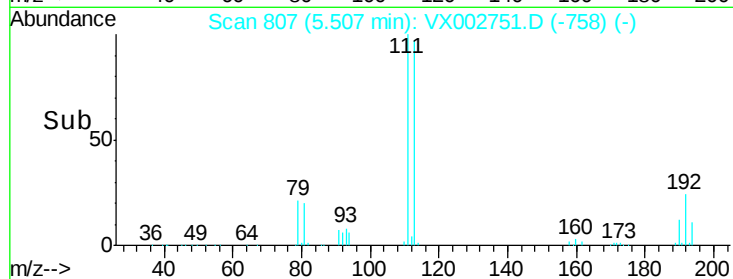
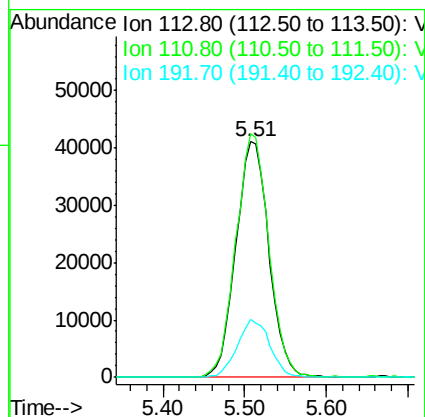
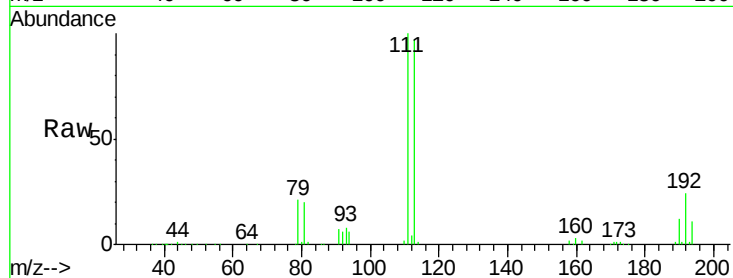




#35
 Dibromofluoromethane
 Concen: 48.50 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002751.D
 Acq: 20 Jun 2018 19:27

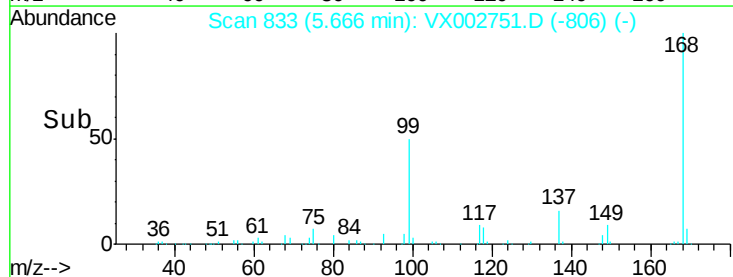
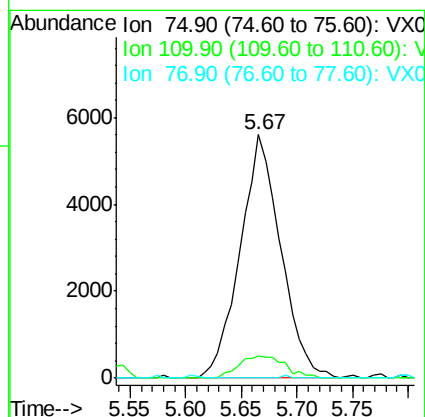
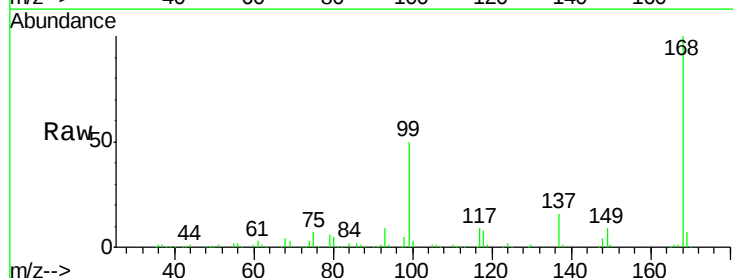
Instrument :
 MSVOA_X
 ClientSampled :

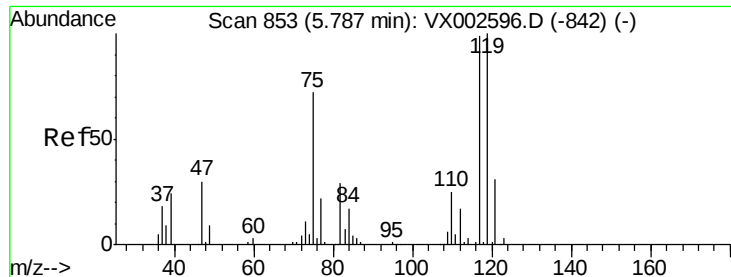
Tot Ion:113 Resp: 115315
 Ion Ratio Lower Upper
 113 100
 111 102.8 81.4 122.0
 192 24.4 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.49 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002751.D
 Acq: 20 Jun 2018 19:27

Tgt Ion: 75 Resp: 14214
 Ion Ratio Lower Upper
 75 100
 110 10.4 18.1 54.4#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.05 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

ClientSampleId :

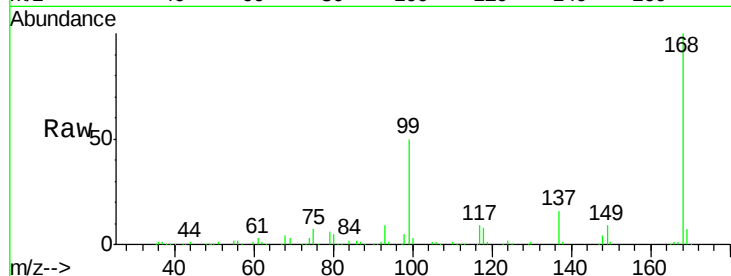
Tot Ion:117 Resp: 19058

Ion Ratio Lower Upper

117 100

119 6.2 77.4 116.0#

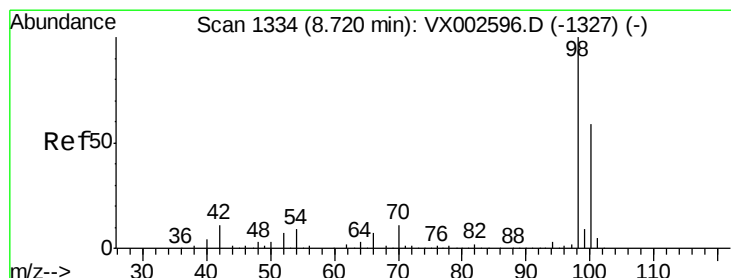
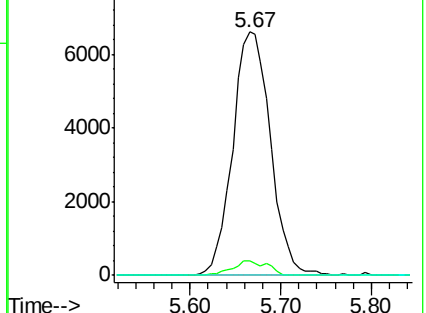
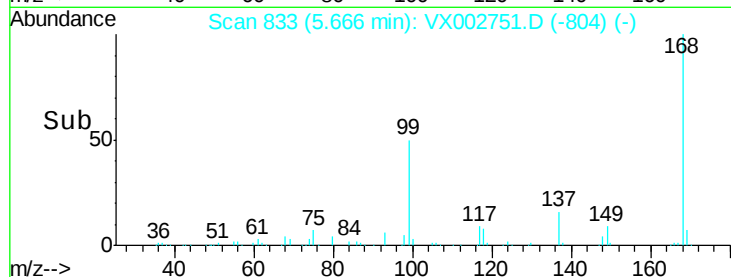
121 0.0 24.4 36.6#



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



#50

Toluene-d8

Concen: 46.20 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002751.D

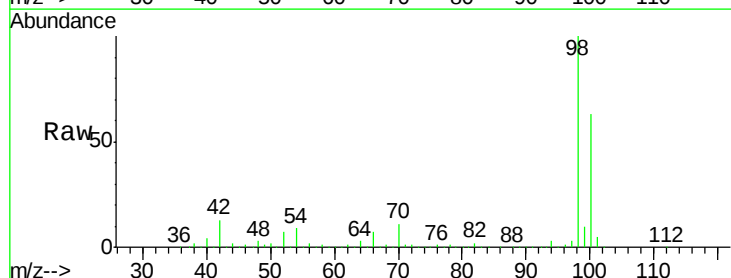
Acq: 20 Jun 2018 19:27

Tgt Ion: 98 Resp: 417108

Ion Ratio Lower Upper

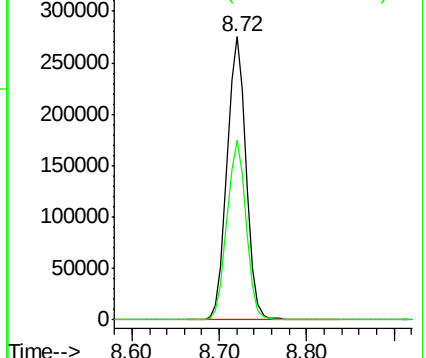
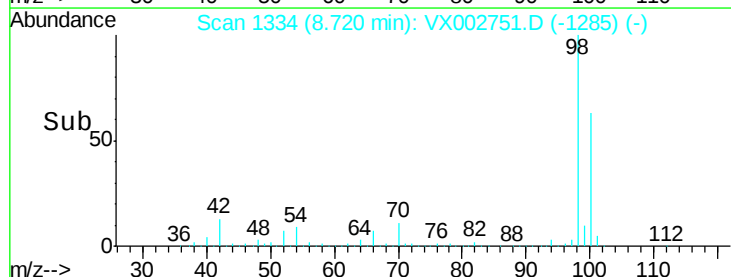
98 100

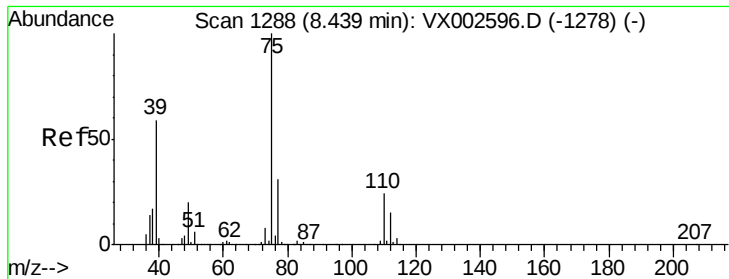
100 63.7 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#53

t-1,3-Dichloropropene

Concen: 2.40 ug/l

RT: 8.21 min Scan# 1251

Delta R.T. -0.23 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

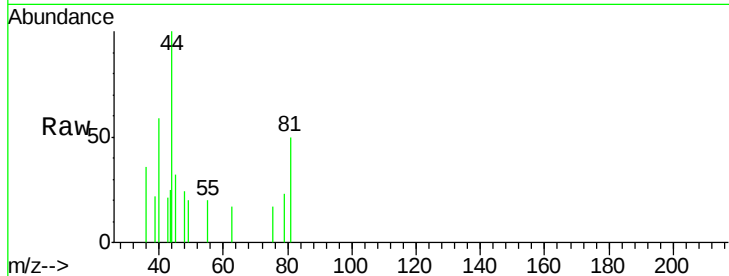
ClientSampled :

Tot Ion: 75 Resp: 19

Ion Ratio Lower Upper

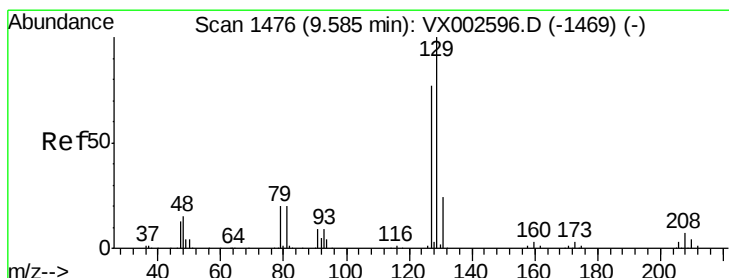
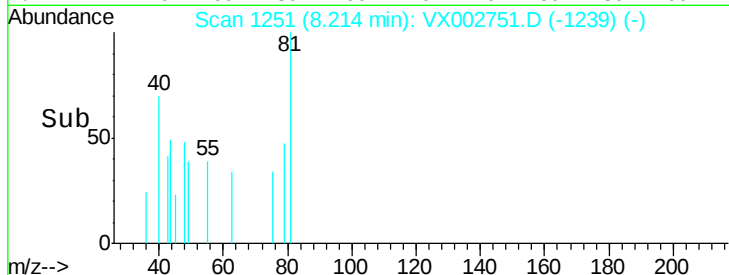
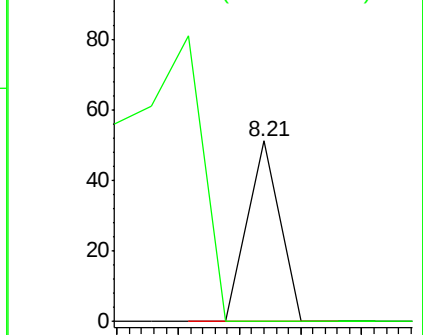
75 100

77 0.0 25.4 38.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#60

Dibromochloromethane

Concen: 3.90 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.24 min

Lab File: VX002751.D

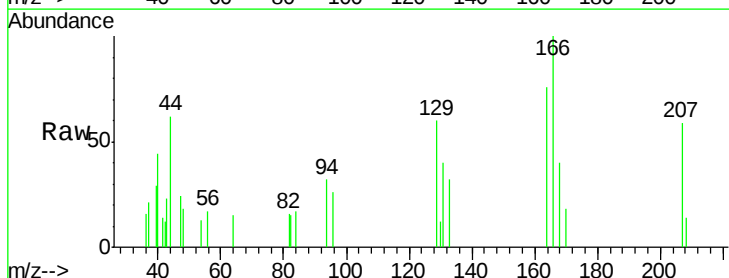
Acq: 20 Jun 2018 19:27

Tgt Ion: 129 Resp: 412

Ion Ratio Lower Upper

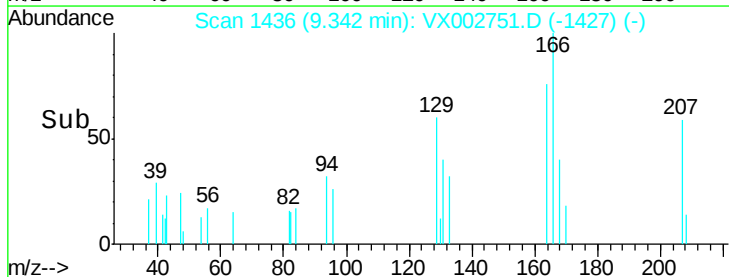
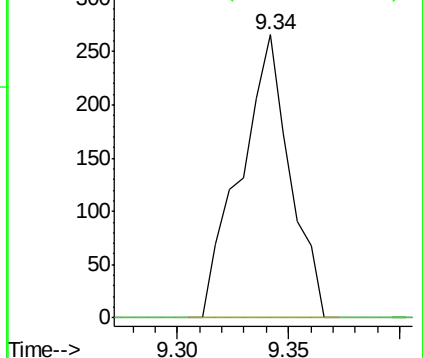
129 100

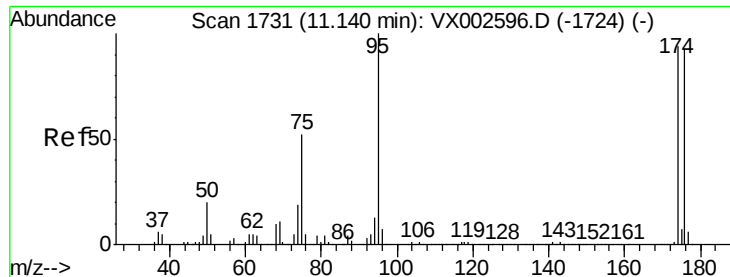
127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

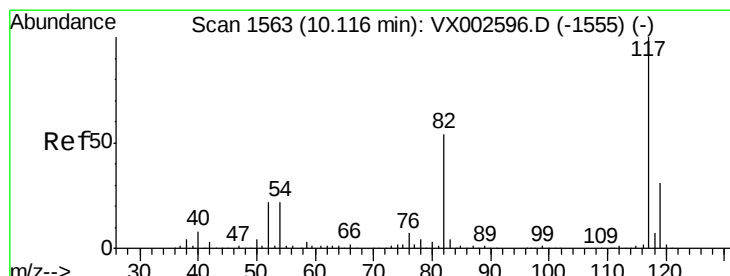
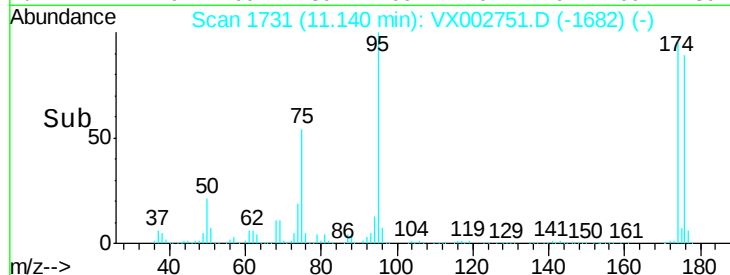
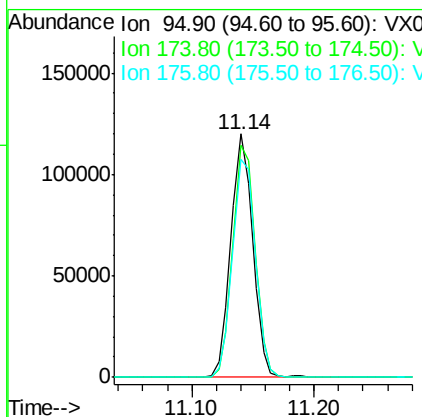
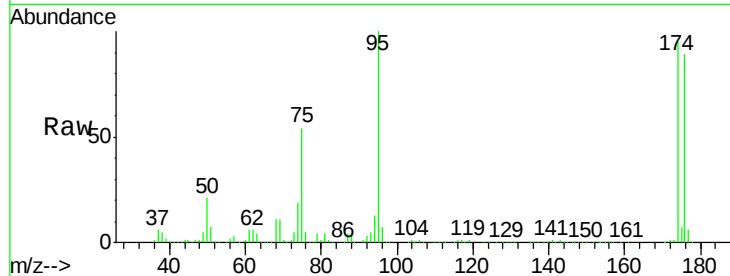




#62
4-Bromofluorobenzene
Concen: 43.38 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002751.D
Acq: 20 Jun 2018 19:27

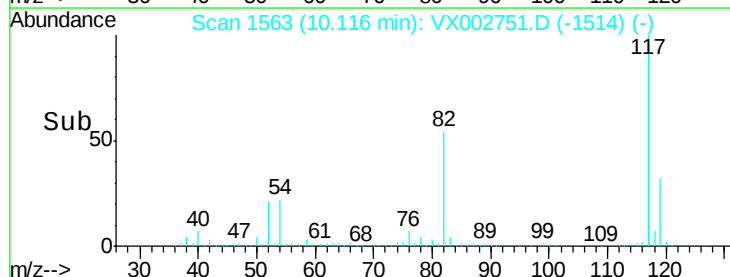
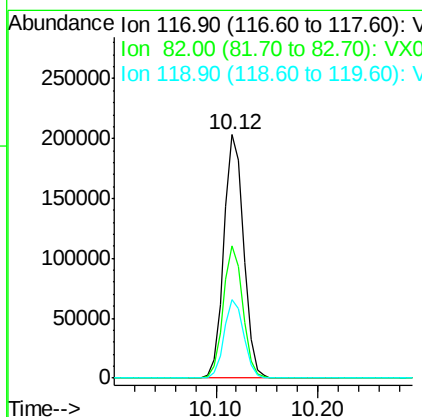
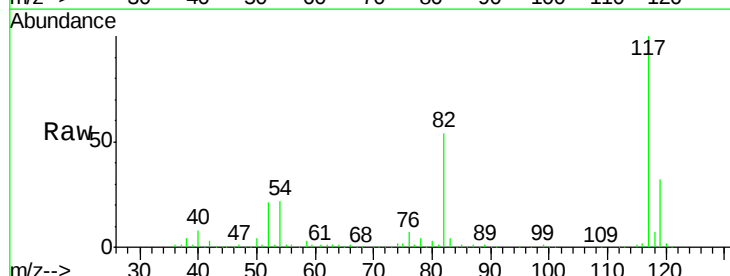
Instrument :
MSVOA_X
ClientSampleId :

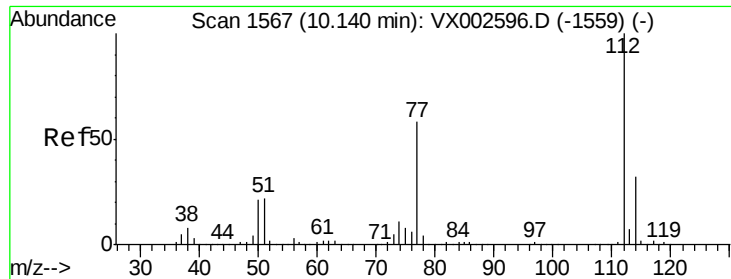
Tot Ion: 95 Resp: 148385
Ion Ratio Lower Upper
95 100
174 98.0 0.0 187.4
176 93.8 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002751.D
Acq: 20 Jun 2018 19:27

Tgt Ion: 117 Resp: 274704
Ion Ratio Lower Upper
117 100
82 54.4 45.0 67.4
119 32.2 25.8 38.6





#65

Chlorobenzene

Concen: 0.73 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

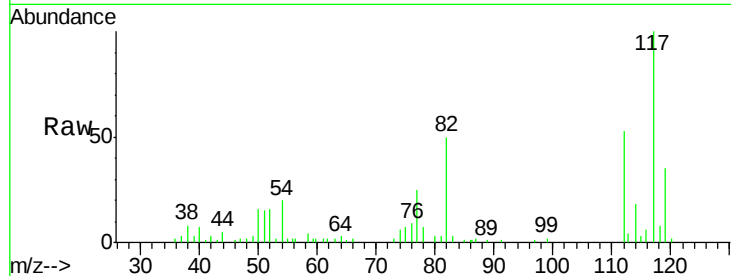
ClientSampleId :

Tot Ion:112 Resp: 4909

Ion Ratio Lower Upper

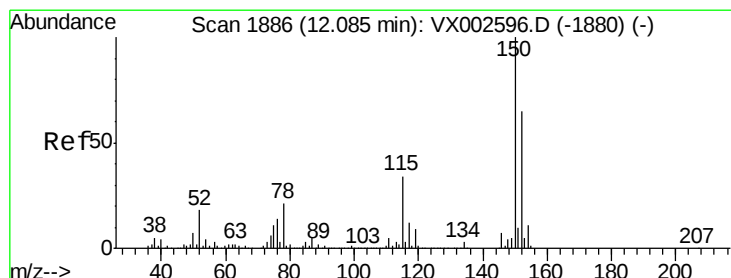
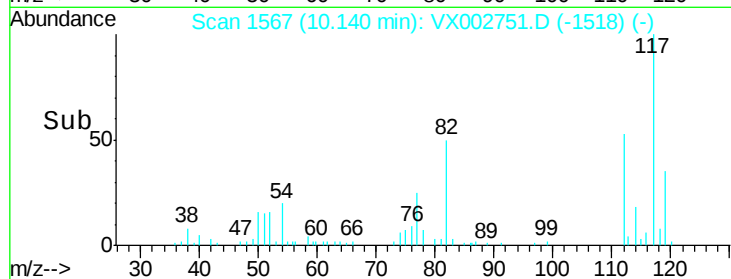
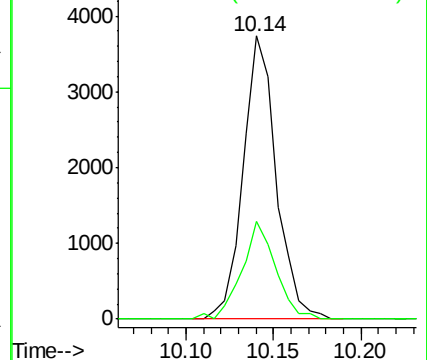
112 100

114 34.5 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: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

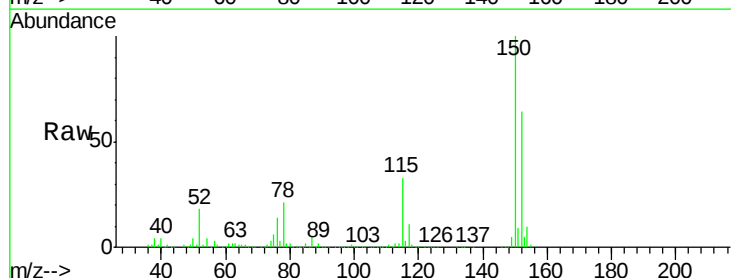
Tgt Ion:152 Resp: 157964

Ion Ratio Lower Upper

152 100

115 54.9 40.1 120.2

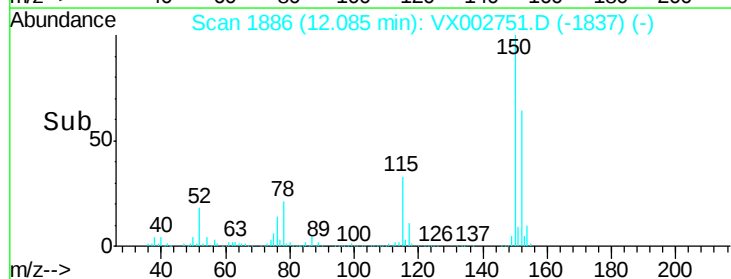
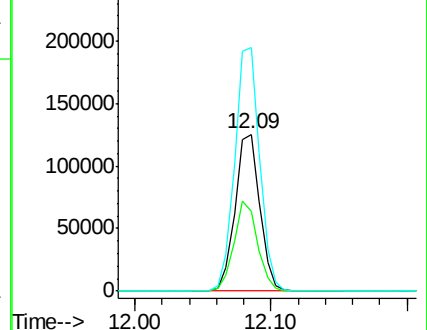
150 156.8 0.0 347.2

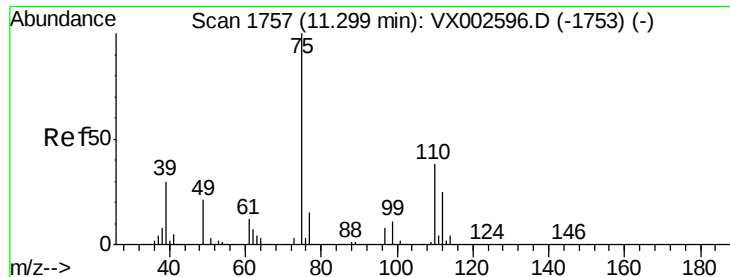


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

Instrument :

MSVOA_X

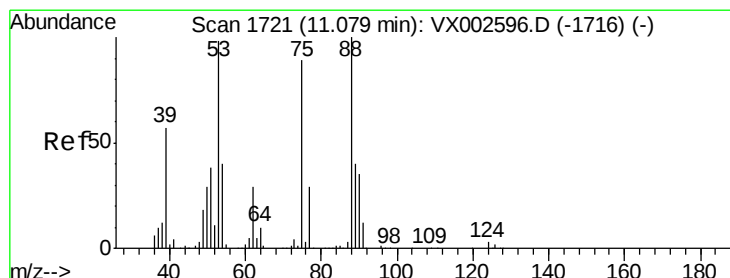
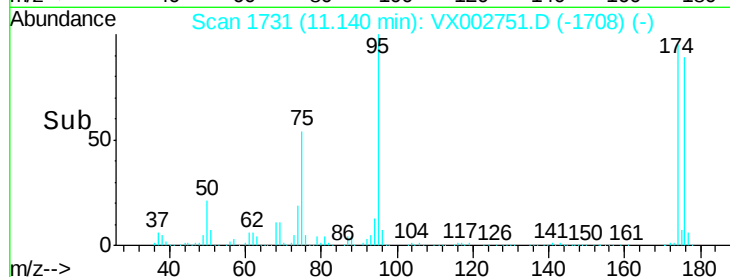
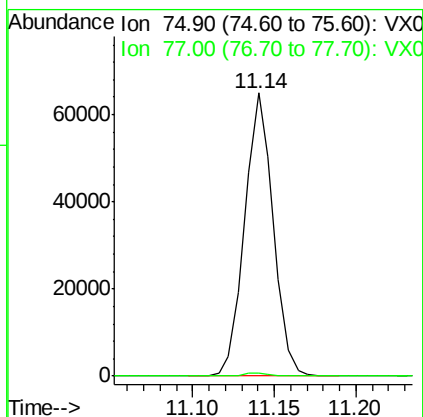
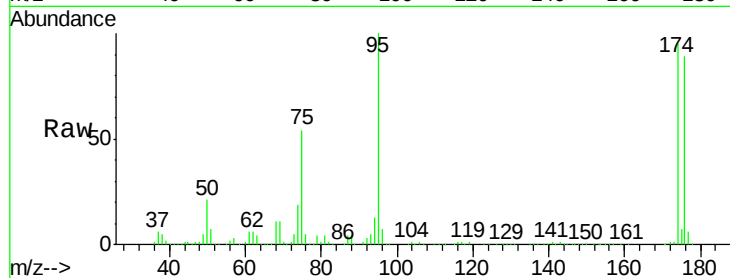
ClientSampleId :

Tot Ion: 75 Resp: 79210

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.10 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002751.D

Acq: 20 Jun 2018 19:27

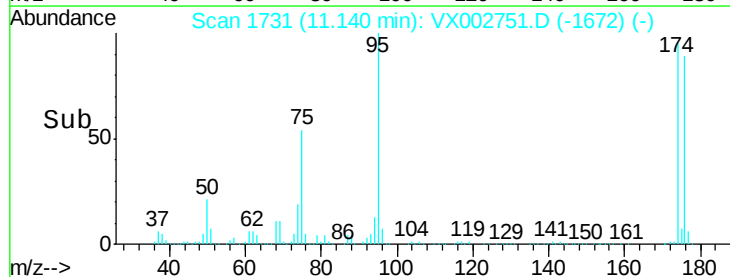
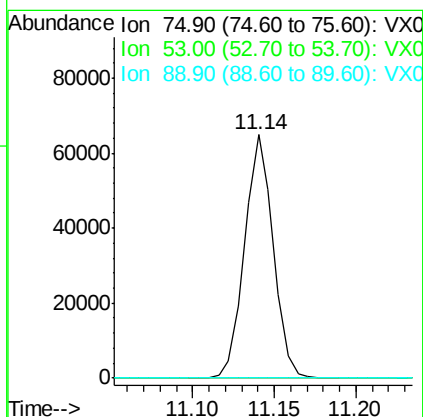
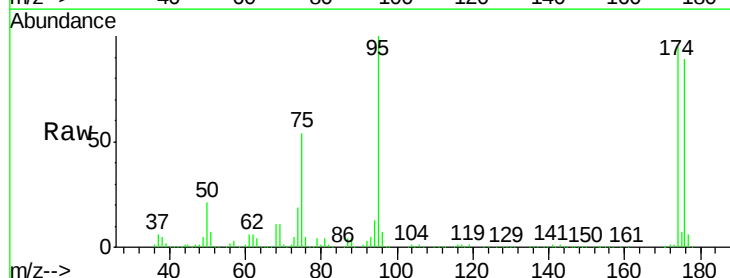
Tgt Ion: 75 Resp: 79210

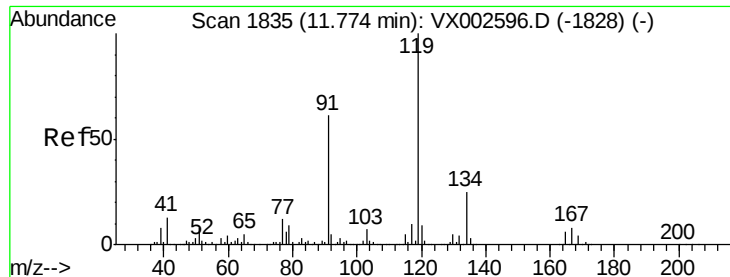
Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.1 38.2 57.2#

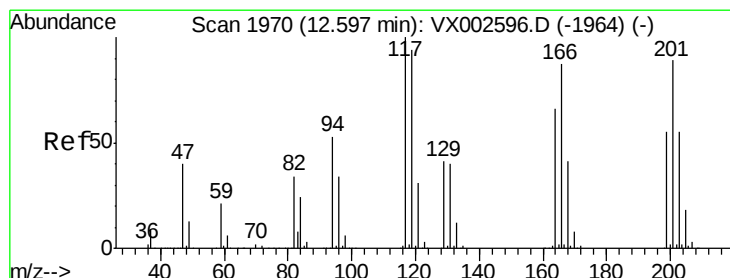
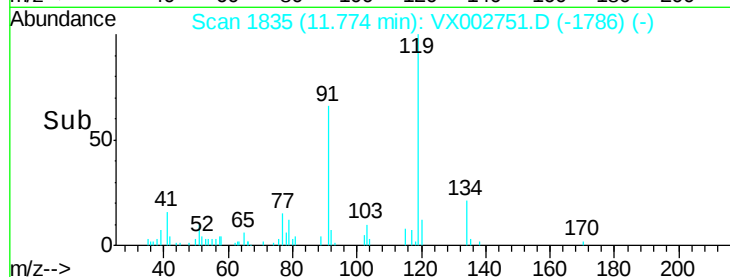
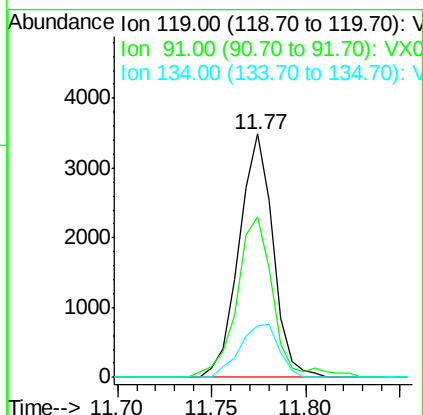
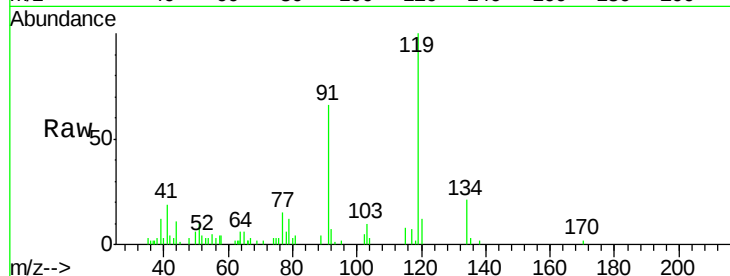




#83
tert-Butylbenzene
Concen: 0.51 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX002751.D
Acq: 20 Jun 2018 19:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:119 Resp: 4353
Ion Ratio Lower Upper
119 100
91 71.1 30.3 90.9
134 25.0 11.7 35.1



#90
Hexachloroethane
Concen: 2.66 ug/l
RT: 12.66 min Scan# 1981
Delta R.T. 0.07 min
Lab File: VX002751.D
Acq: 20 Jun 2018 19:27

Tgt Ion:117 Resp: 54
Ion Ratio Lower Upper
117 100
201 0.0 49.0 147.0#

