

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX062018\
 Data File : VX002753.D
 Acq On : 20 Jun 2018 20:20
 Operator : JC/MD
 Sample : J3597-06
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 21 04:01:40 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	217110	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	300883	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	278356	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	159957	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	142195	43.10	ug/l	0.00
Spiked Amount			Recovery	=	86.20%	
35) Dibromofluoromethane	5.51	113	118293	49.26	ug/l	0.00
Spiked Amount			Recovery	=	98.52%	
50) Toluene-d8	8.72	98	424968	46.61	ug/l	0.00
Spiked Amount			Recovery	=	93.22%	
62) 4-Bromofluorobenzene	11.14	95	149269	43.20	ug/l	0.00
Spiked Amount			Recovery	=	86.40%	

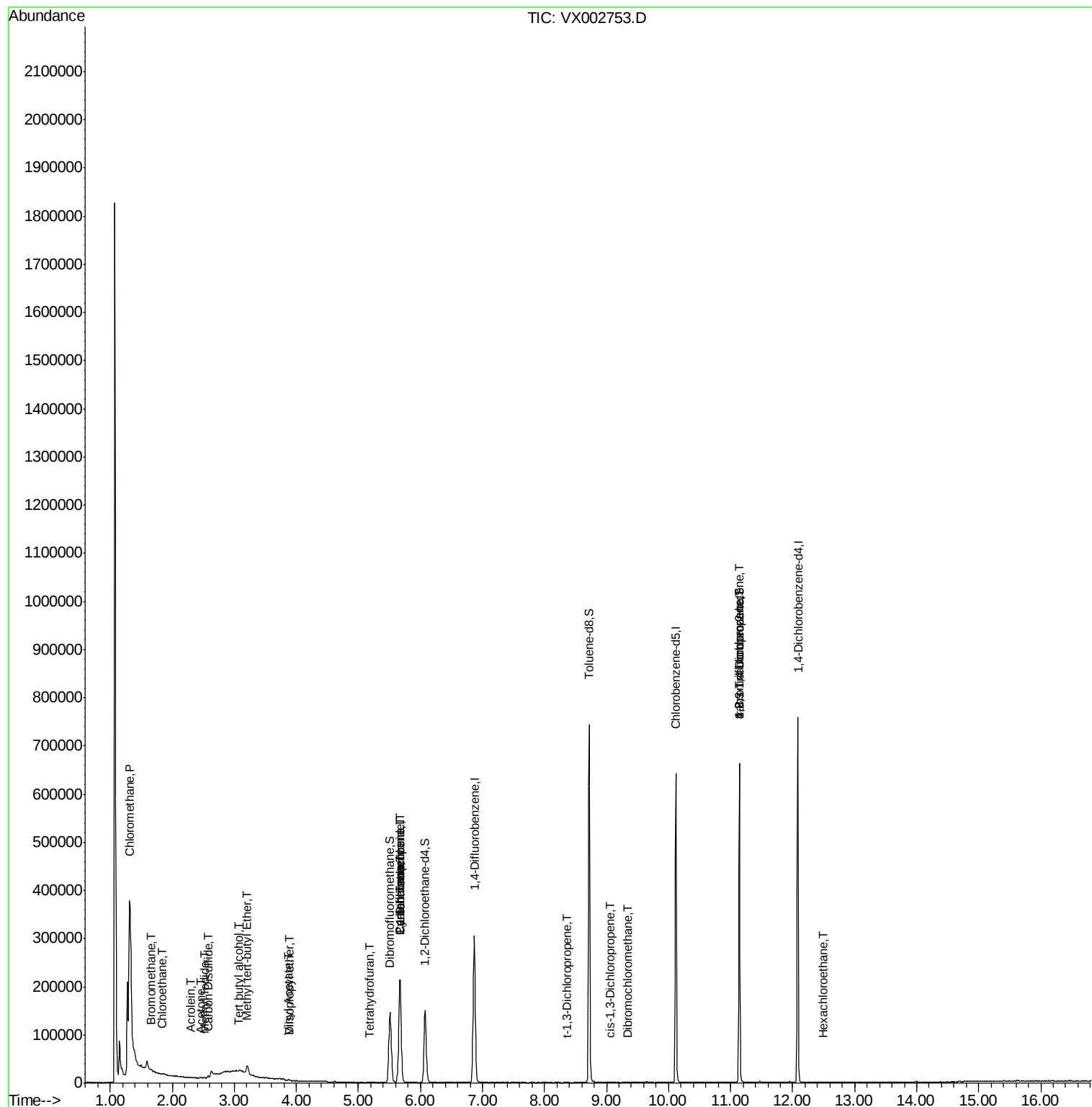
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	18388	6.71	ug/l #	46
5) Bromomethane	1.66	94	1043	0.61	ug/l	86
6) Chloroethane	1.84	64	642	0.34	ug/l #	43
10) Methyl Iodide	2.52	142	2204	5.75	ug/l	98
11) Tert butyl alcohol	3.08	59	1723	2.53	ug/l #	73
13) Acrolein	2.30	56	38	6.98	ug/l #	14
16) Acetone	2.45	43	1410	0.97	ug/l	91
17) Carbon Disulfide	2.57	76	7941	1.38	ug/l #	93
19) Methyl tert-butyl Ether	3.21	73	18679	2.05	ug/l	96
22) Diisopropyl ether	3.89	45	2230	0.26	ug/l #	84
23) Vinyl Acetate	3.87	43	1971	0.27	ug/l #	75
29) Tetrahydrofuran	5.17	42	470	0.38	ug/l #	78
31) Cyclohexane	5.67	56	4497	1.15	ug/l #	2
36) 1,1-Dichloropropene	5.67	75	14386	4.50	ug/l #	50
38) Carbon Tetrachloride	5.67	117	19668	6.18	ug/l #	16
53) t-1,3-Dichloropropene	8.35	75	23	2.40	ug/l #	1
54) cis-1,3-Dichloropropene	9.05	75	22	3.22	ug/l #	53
60) Dibromochloromethane	9.34	129	185	3.82	ug/l #	11
76) 1,2,3-Trichloropropane	11.14	75	78910	26.14	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.14	75	78910	80.84	ug/l #	7
90) Hexachloroethane	12.49	117	25	2.64	ug/l #	1

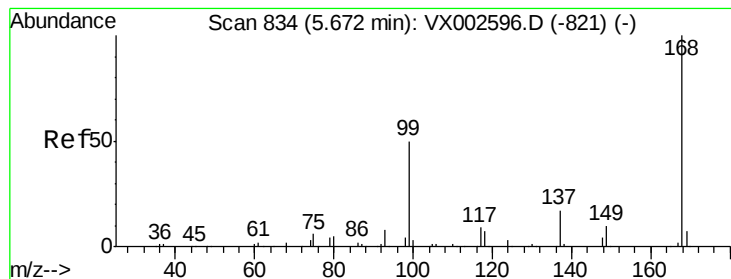
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. 0.00 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

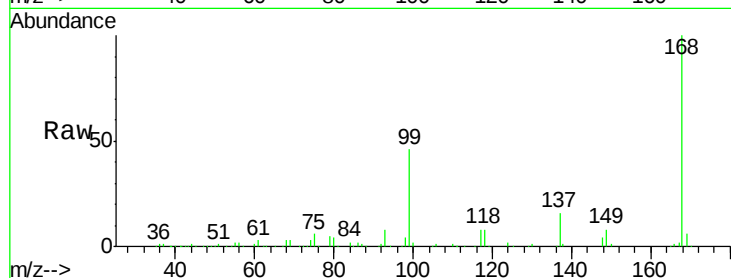
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 217110

Ion Ratio Lower Upper

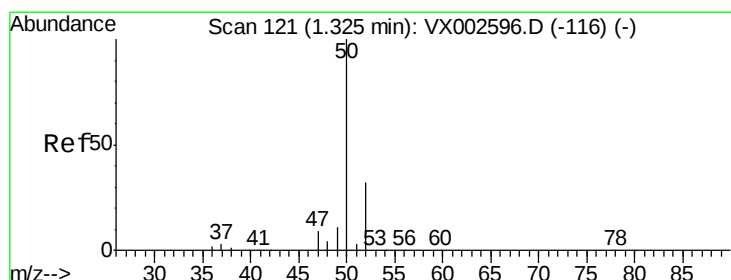
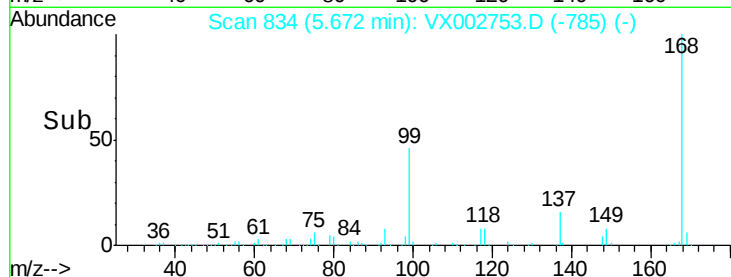
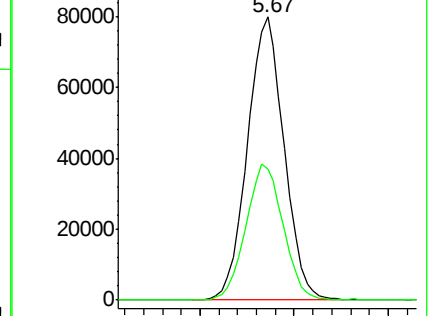
168 100

99 46.2 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: 6.71 ug/l

RT: 1.31 min Scan# 119

Delta R.T. -0.01 min

Lab File: VX002753.D

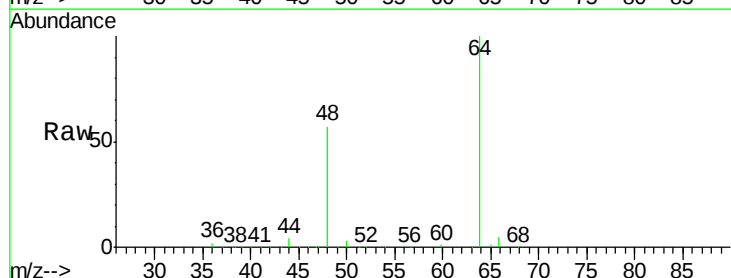
Acq: 20 Jun 2018 20:20

Tgt Ion: 50 Resp: 18388

Ion Ratio Lower Upper

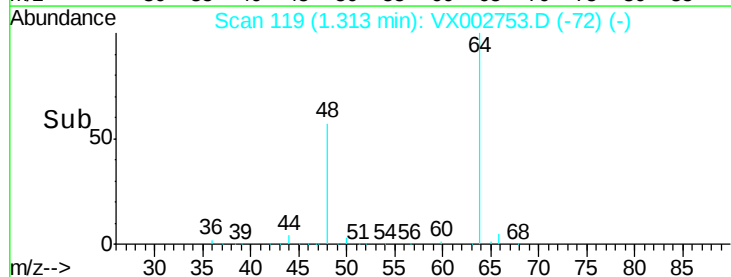
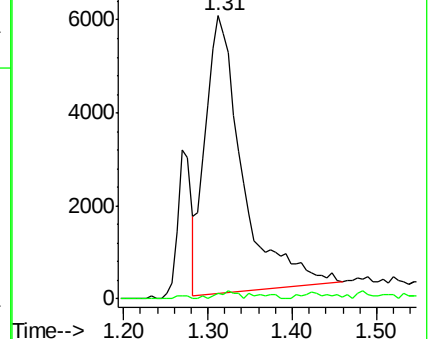
50 100

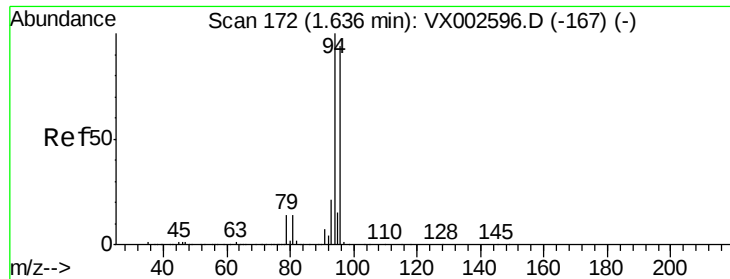
52 1.9 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.61 ug/l

RT: 1.66 min Scan# 176

Delta R.T. 0.02 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

Instrument :

MSVOA_X

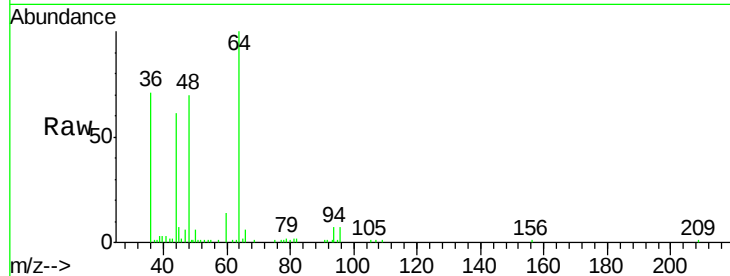
ClientSampled :

Tot Ion: 94 Resp: 1043

Ion Ratio Lower Upper

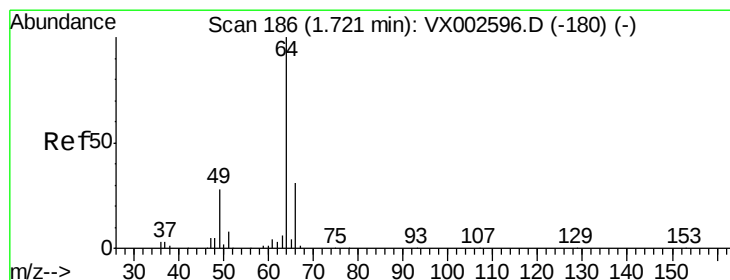
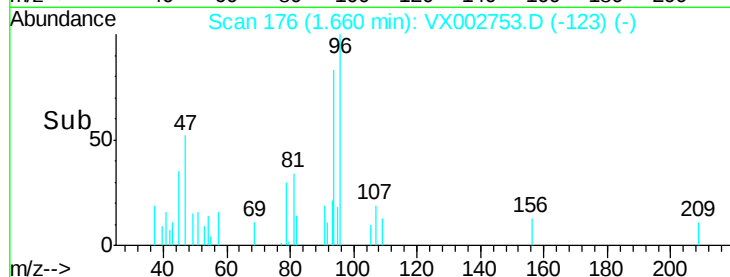
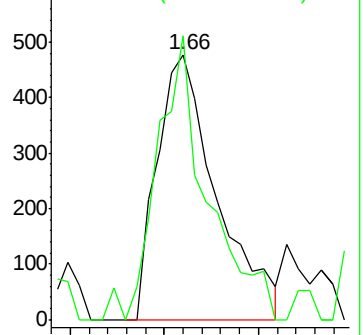
94 100

96 107.1 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 0.34 ug/l

RT: 1.84 min Scan# 205

Delta R.T. 0.12 min

Lab File: VX002753.D

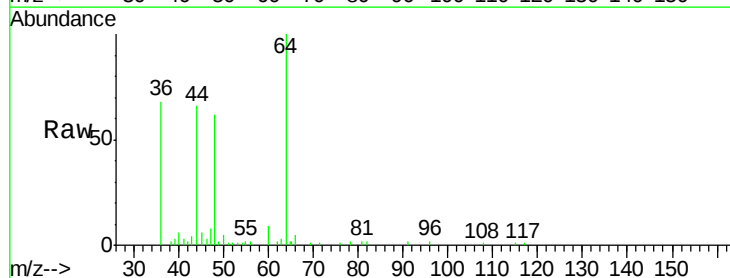
Acq: 20 Jun 2018 20:20

Tgt Ion: 64 Resp: 642

Ion Ratio Lower Upper

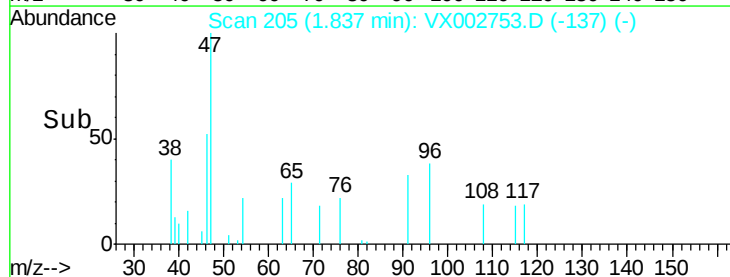
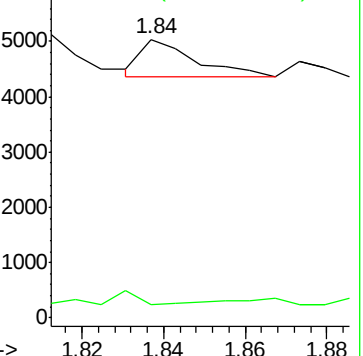
64 100

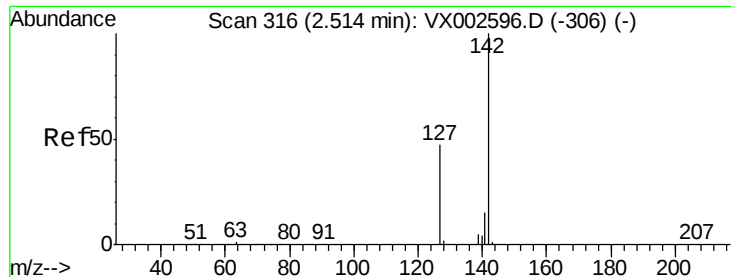
66 0.0 25.5 38.3#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

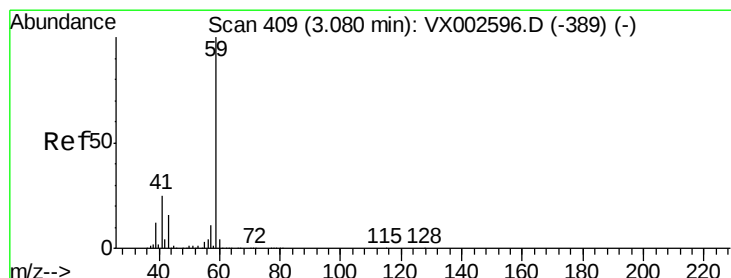
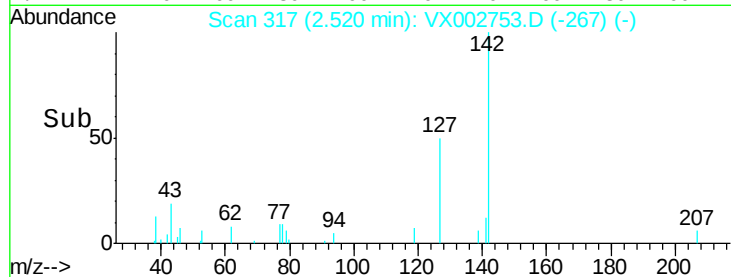
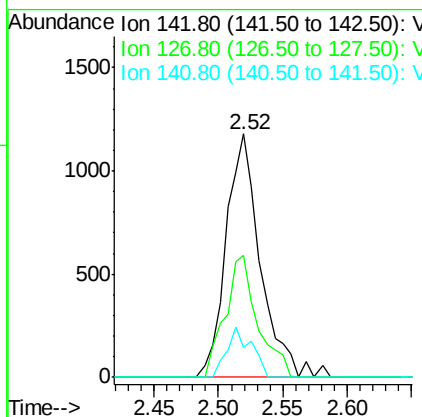
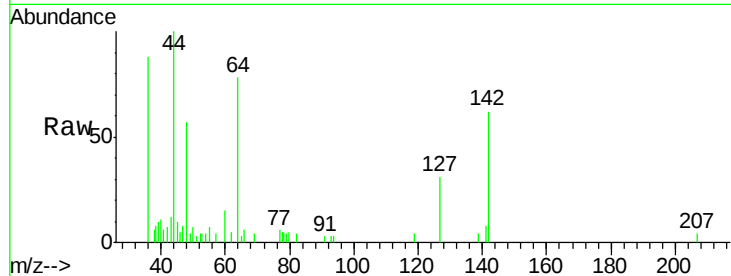




#10
Methyl Iodide
Concen: 5.75 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

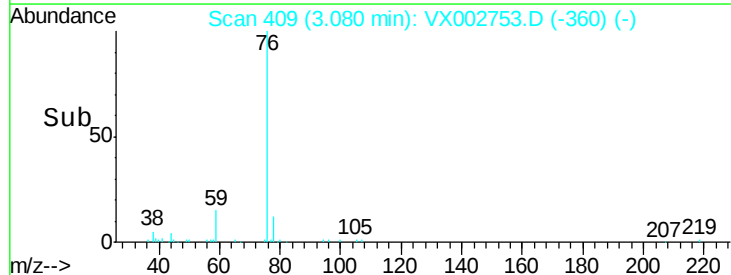
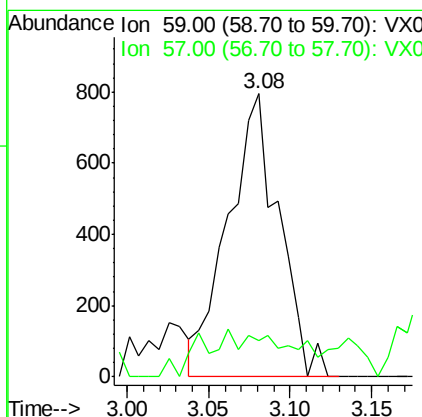
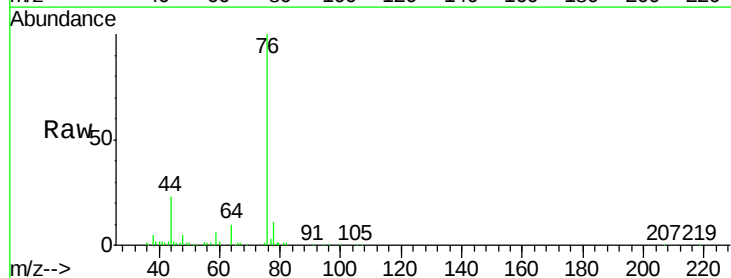
Instrument :
MSVOA_X
ClientSampleId :

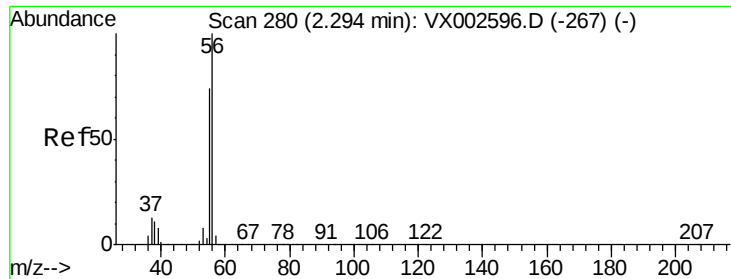
Tot Ion:142 Resp: 2204
Ion Ratio Lower Upper
142 100
127 47.6 36.6 55.0
141 14.8 11.3 16.9



#11
Tert butyl alcohol
Concen: 2.53 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

Tgt Ion: 59 Resp: 1723
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 6.98 ug/l

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

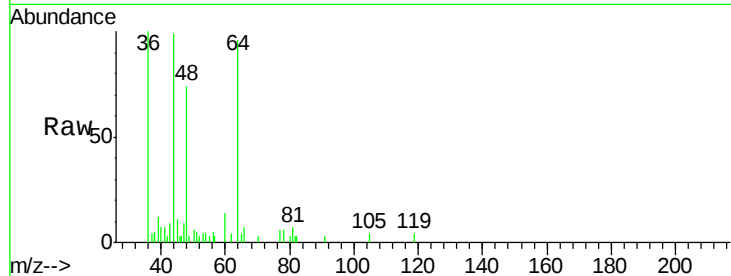
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 38

Ion Ratio Lower Upper

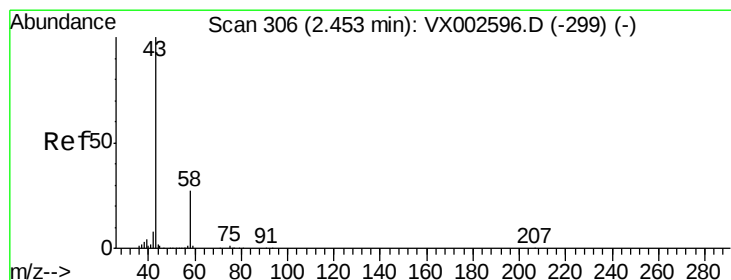
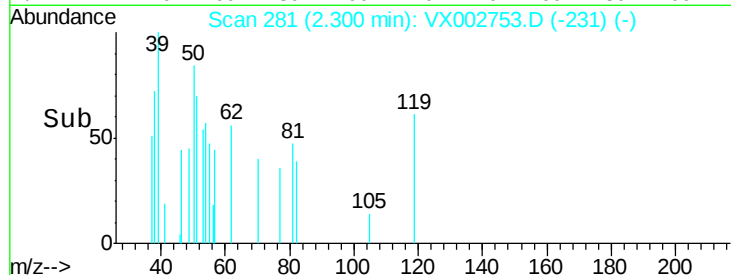
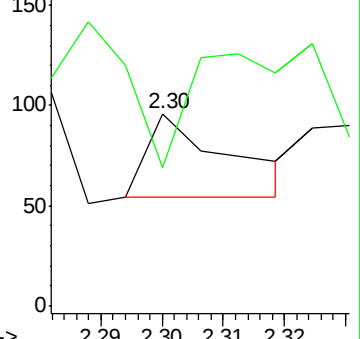
56 100

55 0.0 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: 0.97 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX002753.D

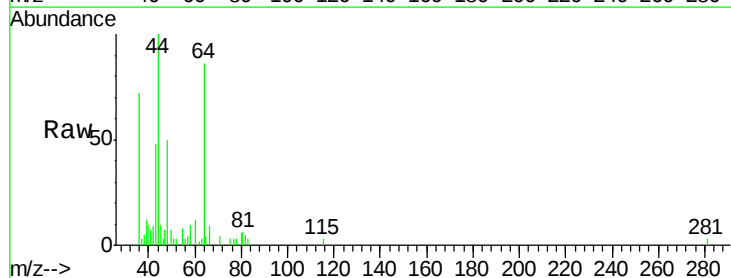
Acq: 20 Jun 2018 20:20

Tgt Ion: 43 Resp: 1410

Ion Ratio Lower Upper

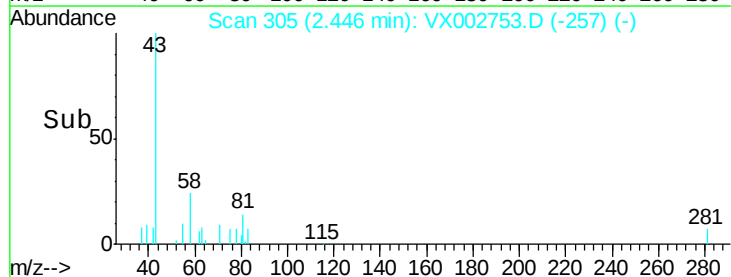
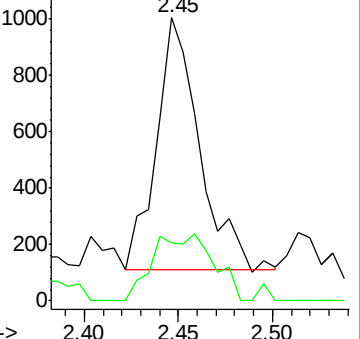
43 100

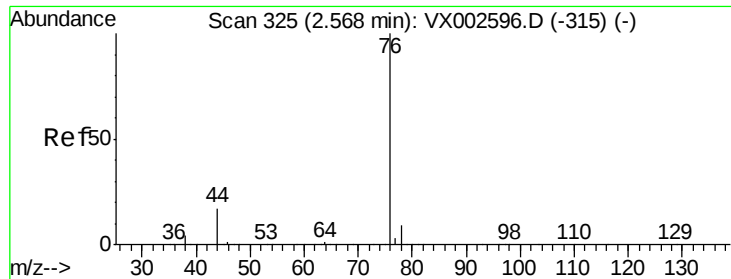
58 23.0 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

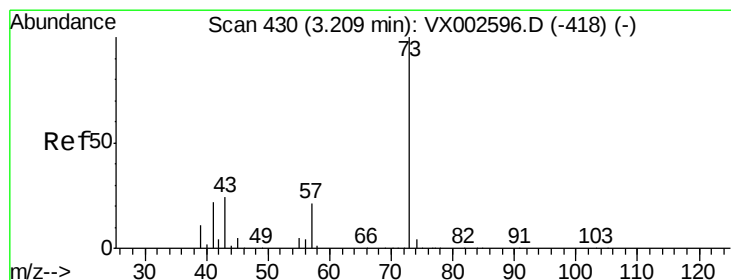
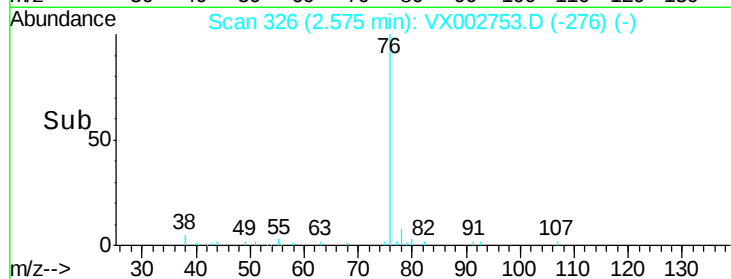
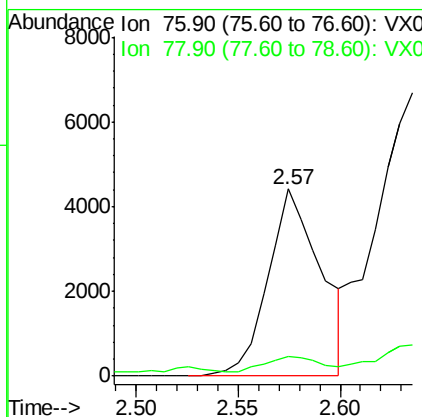
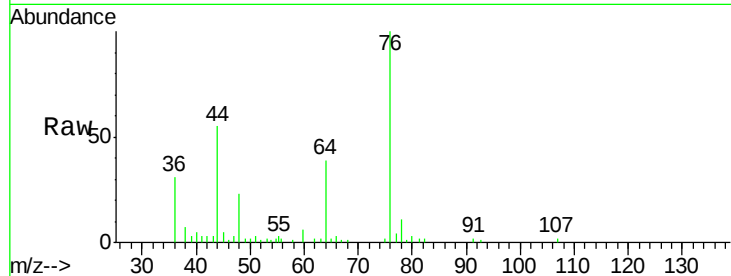




#17
Carbon Disulfide
Concen: 1.38 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

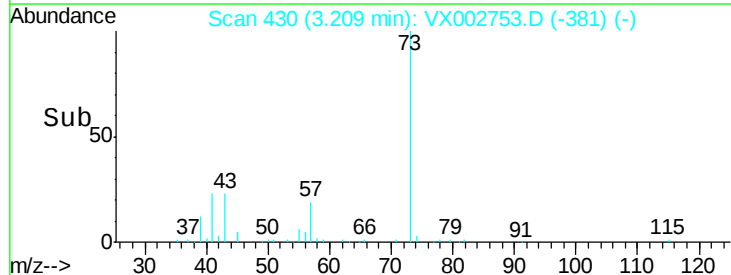
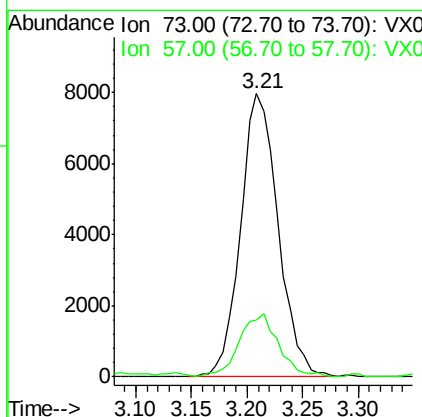
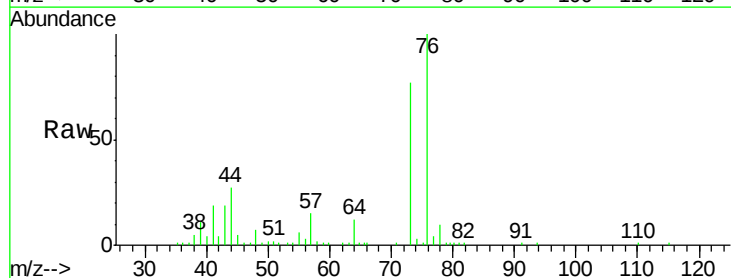
Instrument :
MSVOA_X
ClientSampleId :

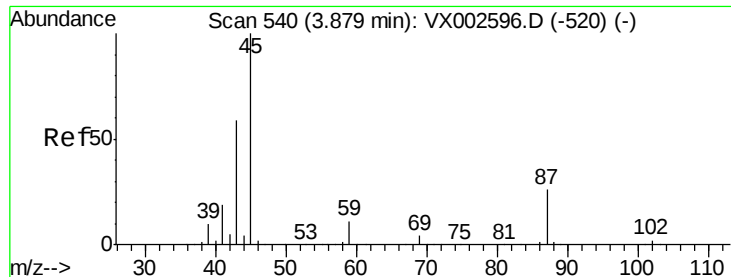
Tot Ion: 76 Resp: 7941
Ion Ratio Lower Upper
76 100
78 6.0 6.9 10.3#



#19
Methyl tert-butyl Ether
Concen: 2.05 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

Tgt Ion: 73 Resp: 18679
Ion Ratio Lower Upper
73 100
57 20.0 17.7 26.5





#22

Diisopropyl ether

Concen: 0.26 ug/l

RT: 3.89 min Scan# 541

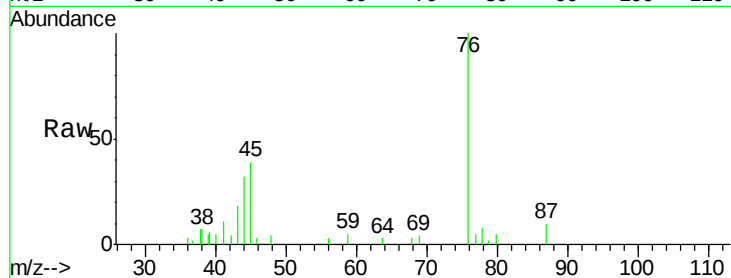
Delta R.T. 0.01 min

Lab File: VX002753.D

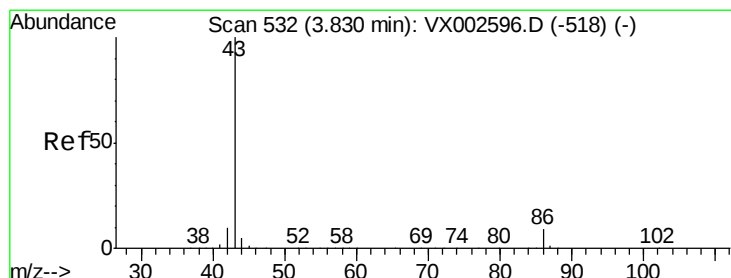
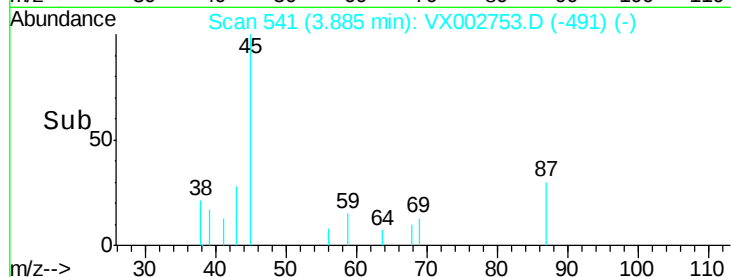
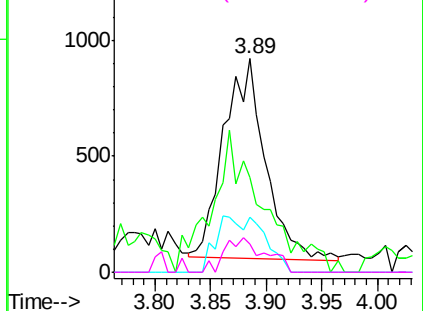
Acq: 20 Jun 2018 20:20

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:	45	Resp:	2230
Ion	Ratio	Lower	Upper
45	100		
43	42.2	46.8	70.2#
87	28.0	20.2	30.4
59	14.4	8.7	13.1#



Abundance Ion 45.00 (44.70 to 45.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 87.00 (86.70 to 87.70): VX0
Ion 59.00 (58.70 to 59.70): VX0



#23

Vinyl Acetate

Concen: 0.27 ug/l

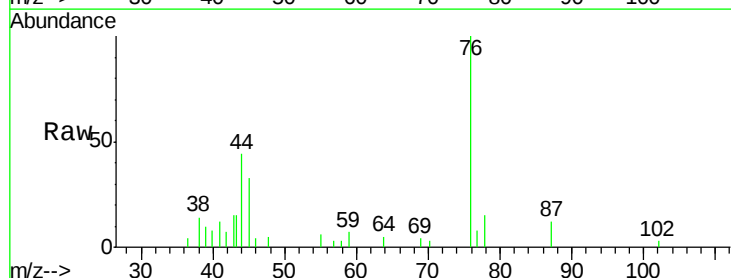
RT: 3.87 min Scan# 538

Delta R.T. 0.04 min

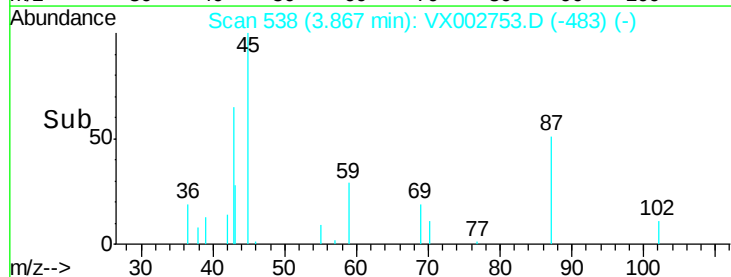
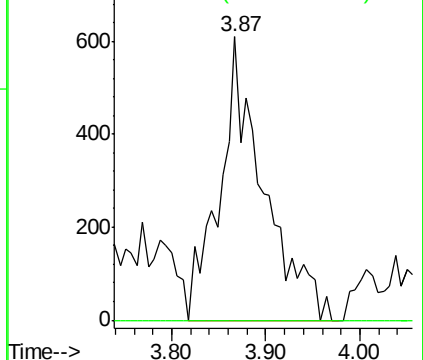
Lab File: VX002753.D

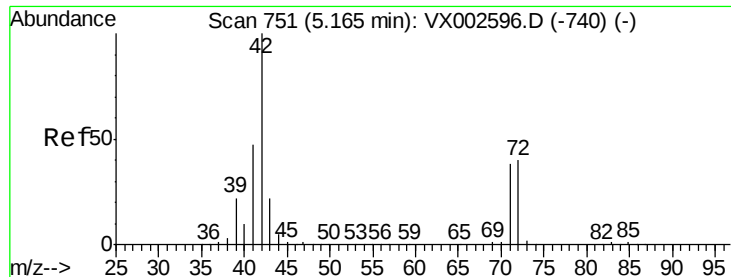
Acq: 20 Jun 2018 20:20

Tgt Ion:	43	Resp:	1971
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.4	11.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 86.00 (85.70 to 86.70): VX0

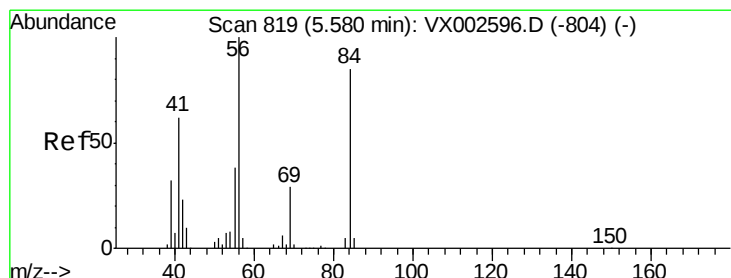
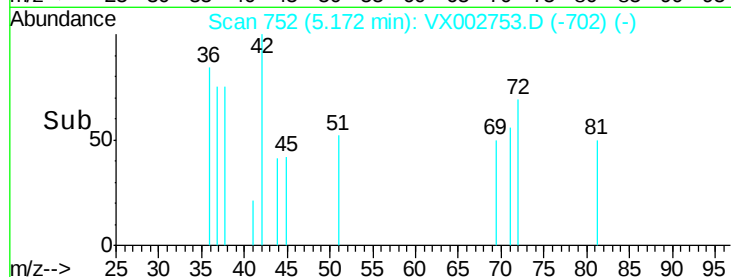
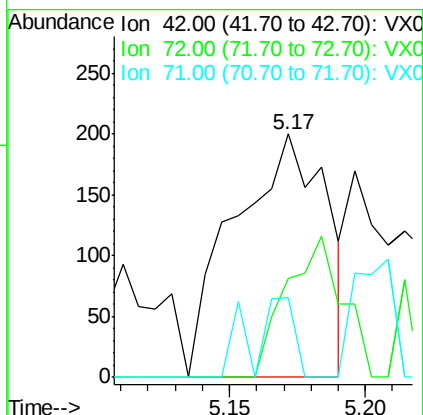
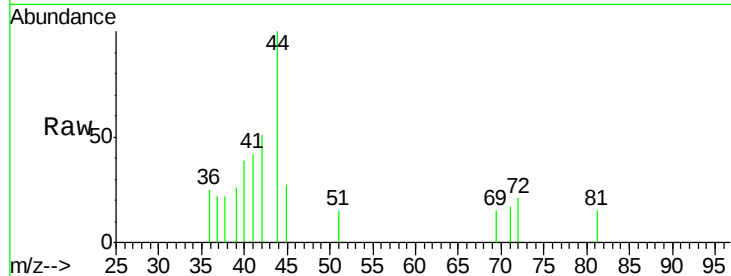




#29
Tetrahydrofuran
Concen: 0.38 ug/l
RT: 5.17 min Scan# 752
Delta R.T. 0.01 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

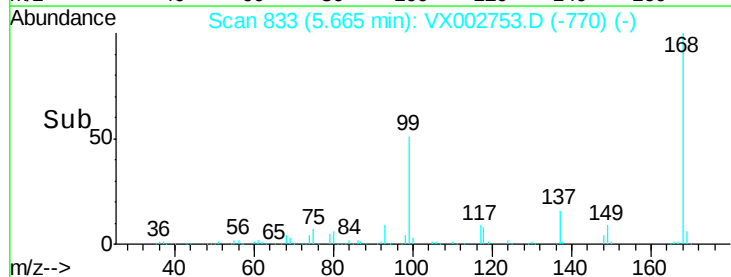
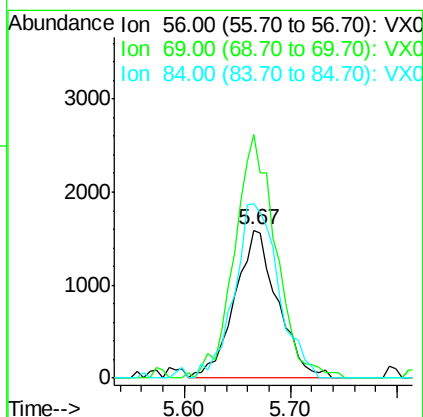
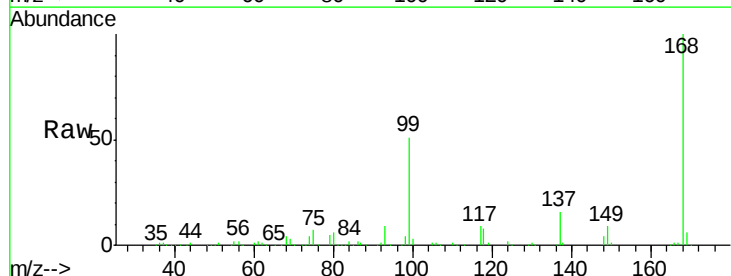
Instrument :
MSVOA_X
ClientSampled :

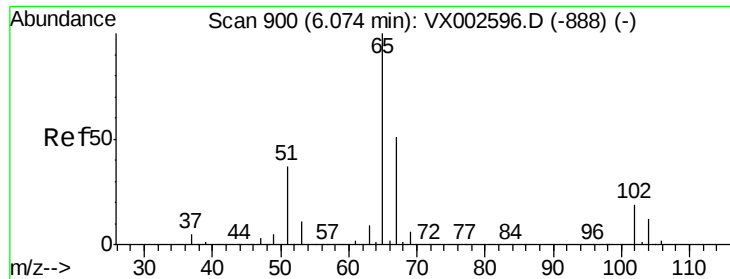
Tot Ion: 42 Resp: 470
Ion Ratio Lower Upper
42 100
72 35.1 32.0 48.0
71 15.1 30.1 45.1#



#31
Cyclohexane
Concen: 1.15 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

Tgt Ion: 56 Resp: 4497
Ion Ratio Lower Upper
56 100
69 161.3 23.7 35.5#
84 118.3 64.1 96.1#





#33

1,2-Dichloroethane-d4

Concen: 43.10 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

Instrument :

MSVOA_X

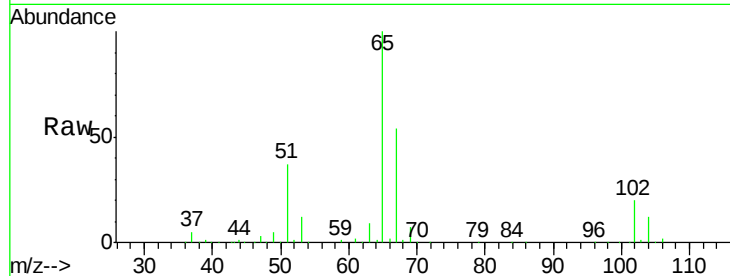
ClientSampleId :

Tot Ion: 65 Resp: 142195

Ion Ratio Lower Upper

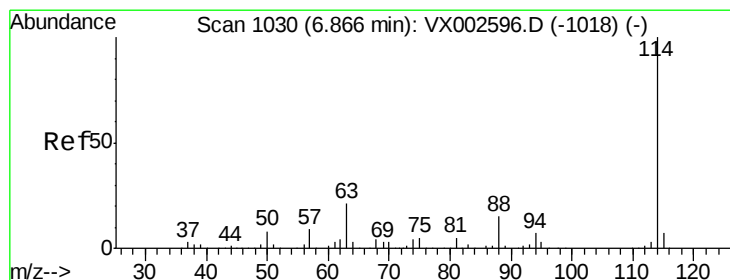
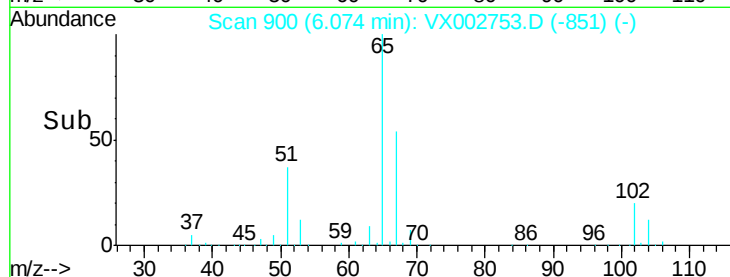
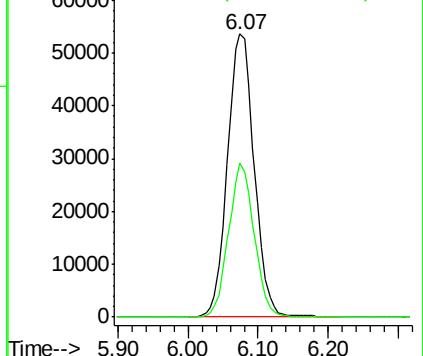
65 100

67 52.2 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: VX002753.D

Acq: 20 Jun 2018 20:20

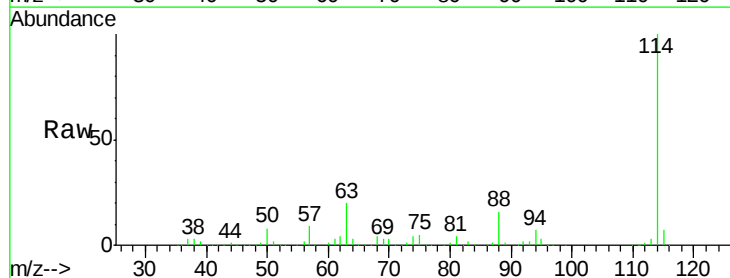
Tgt Ion: 114 Resp: 300883

Ion Ratio Lower Upper

114 100

63 19.8 0.0 41.4

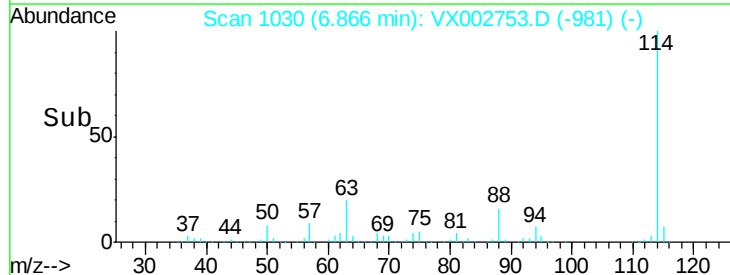
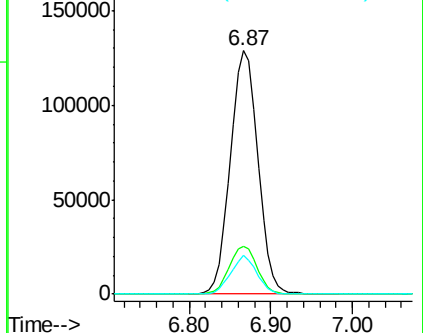
88 15.8 0.0 30.0

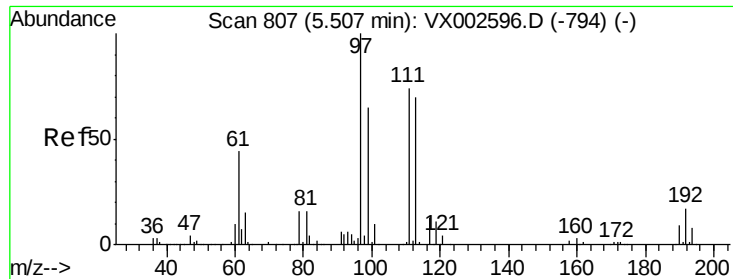


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

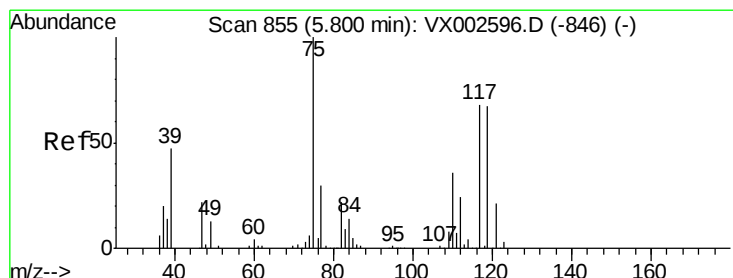
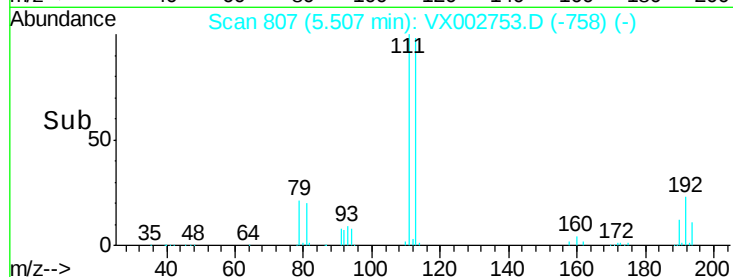
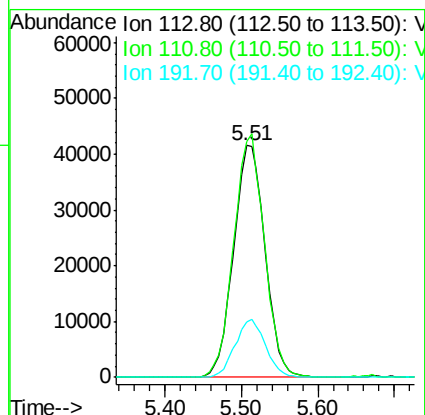
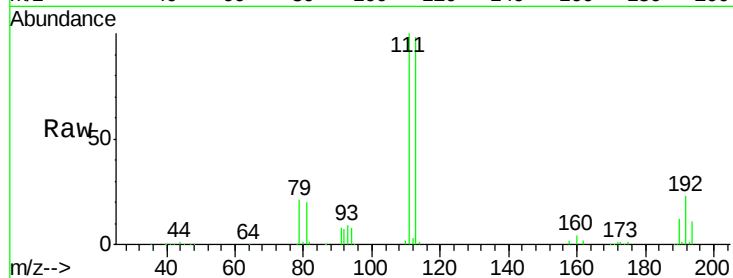




#35
 Dibromofluoromethane
 Concen: 49.26 ug/l
 RT: 5.51 min Scan# 807
 Delta R.T. 0.00 min
 Lab File: VX002753.D
 Acq: 20 Jun 2018 20:20

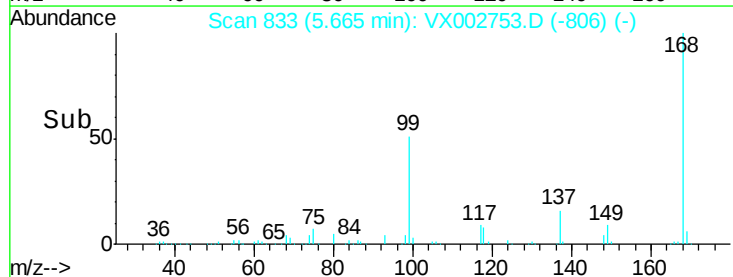
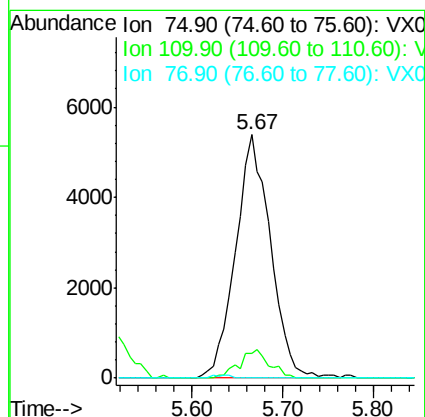
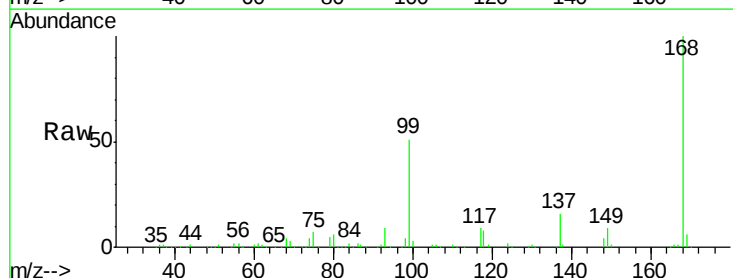
Instrument :
 MSVOA_X
 ClientSampleId :

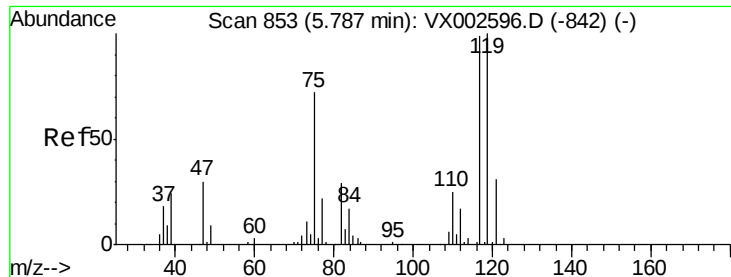
Tot Ion:113 Resp: 118293
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.4 122.0
 192 24.3 19.1 28.7



#36
 1,1-Dichloropropene
 Concen: 4.50 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX002753.D
 Acq: 20 Jun 2018 20:20

Tgt Ion: 75 Resp: 14386
 Ion Ratio Lower Upper
 75 100
 110 10.0 18.1 54.4#
 77 0.0 24.3 36.5#





#38

Carbon Tetrachloride

Concen: 6.18 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.12 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

Instrument :

MSVOA_X

ClientSampleId :

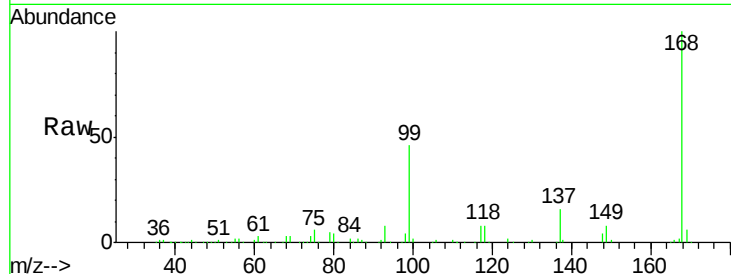
Tot Ion:117 Resp: 19668

Ion Ratio Lower Upper

117 100

119 5.2 77.4 116.0#

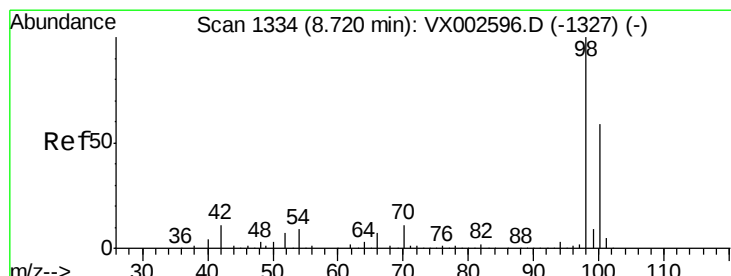
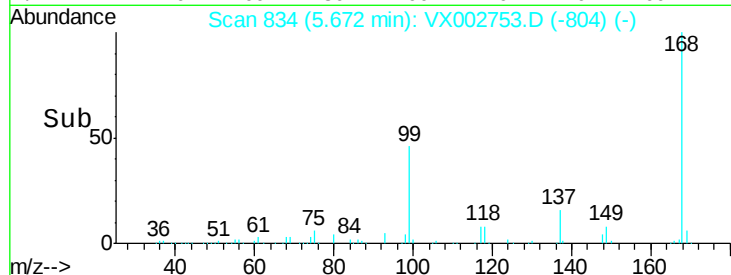
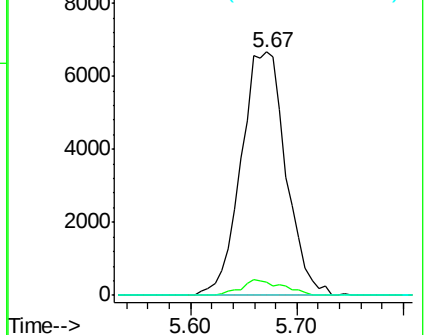
121 0.0 24.4 36.6#



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: 46.61 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002753.D

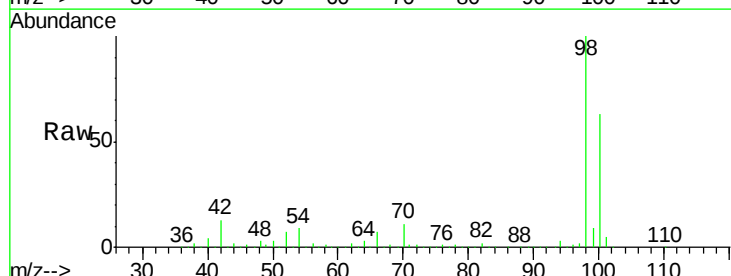
Acq: 20 Jun 2018 20:20

Tgt Ion: 98 Resp: 424968

Ion Ratio Lower Upper

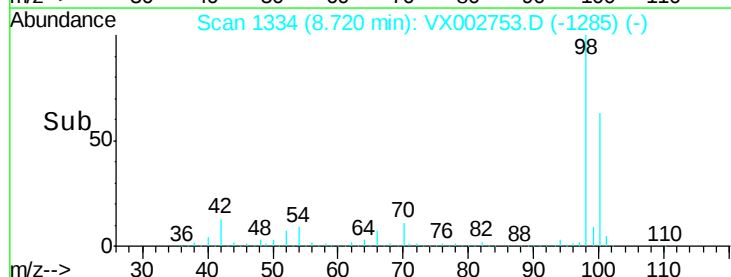
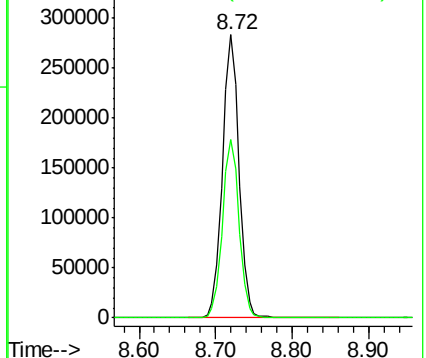
98 100

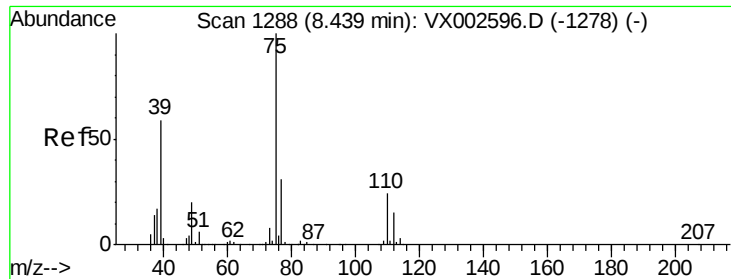
100 63.2 50.9 76.3



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: 8.35 min Scan# 1273

Delta R.T. -0.09 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

Instrument :

MSVOA_X

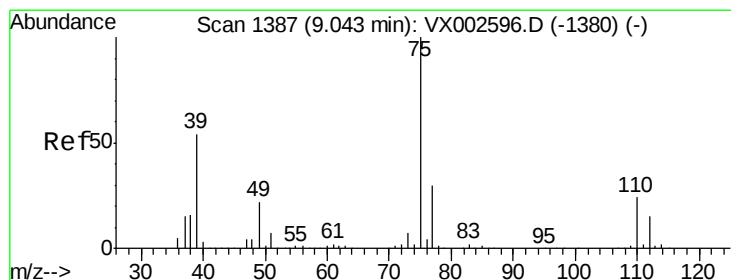
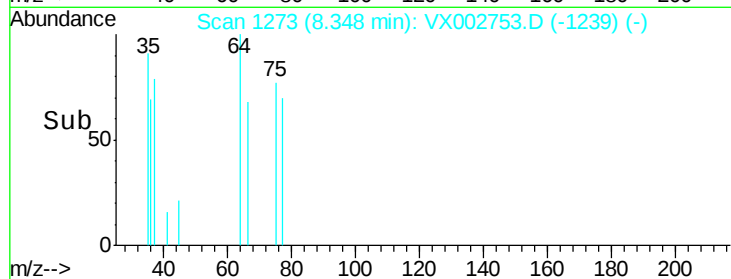
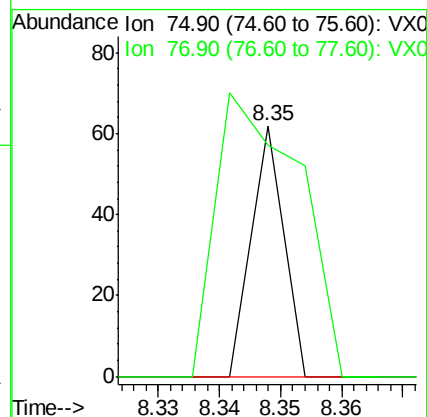
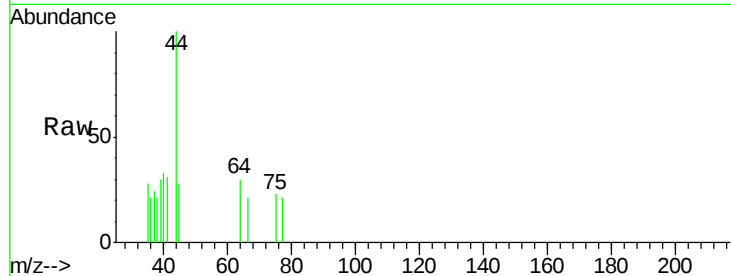
ClientSampled :

Tot Ion: 75 Resp: 23

Ion Ratio Lower Upper

75 100

77 91.9 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: VX002753.D

Acq: 20 Jun 2018 20:20

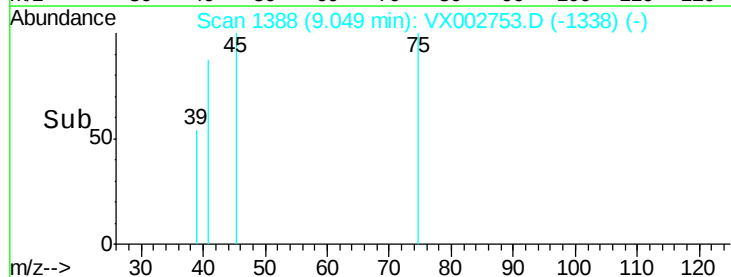
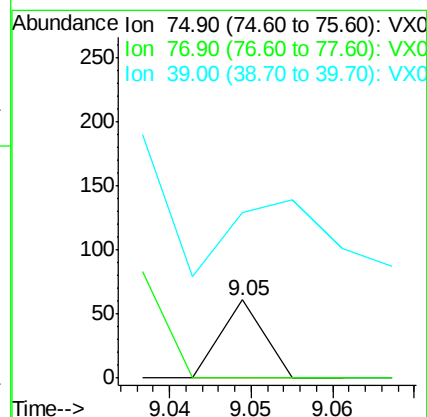
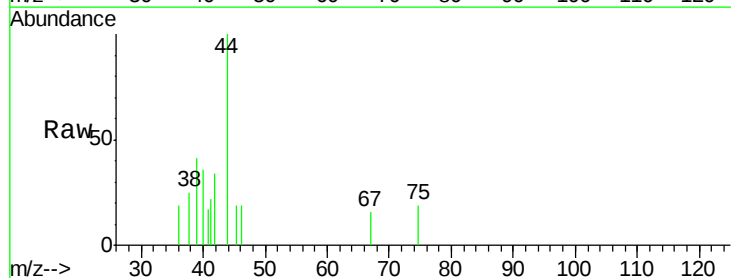
Tgt Ion: 75 Resp: 22

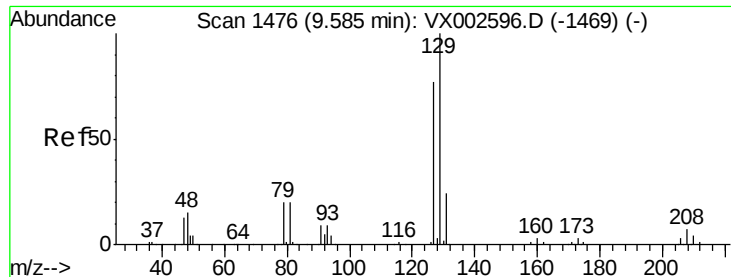
Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 82.0 42.4 63.6#

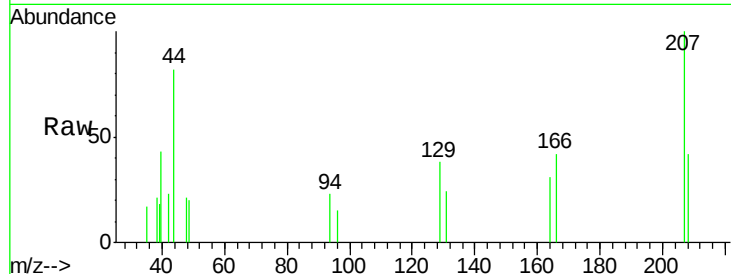




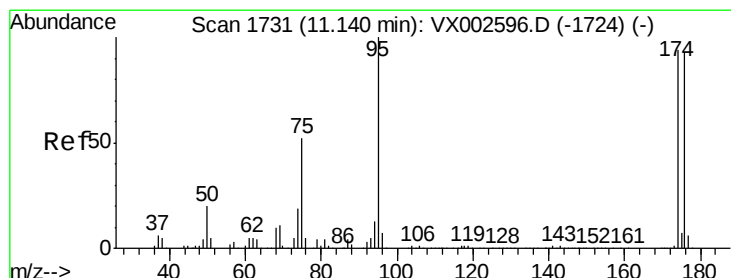
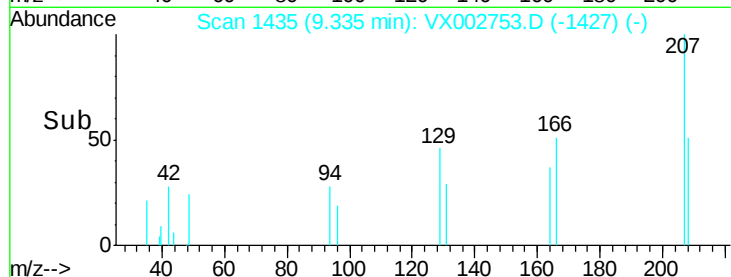
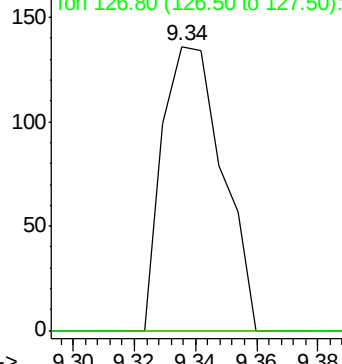
#60
Dibromochloromethane
Concen: 3.82 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 185
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#

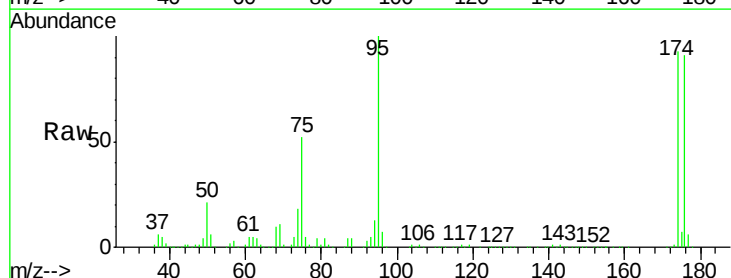


Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

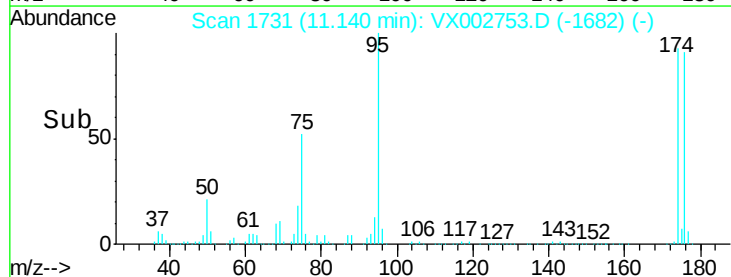
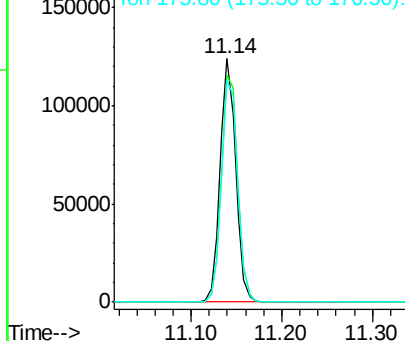


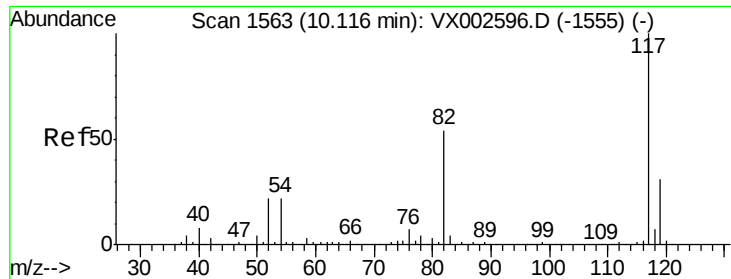
#62
4-Bromofluorobenzene
Concen: 43.20 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

Tgt Ion: 95 Resp: 149269
Ion Ratio Lower Upper
95 100
174 97.8 0.0 187.4
176 94.4 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

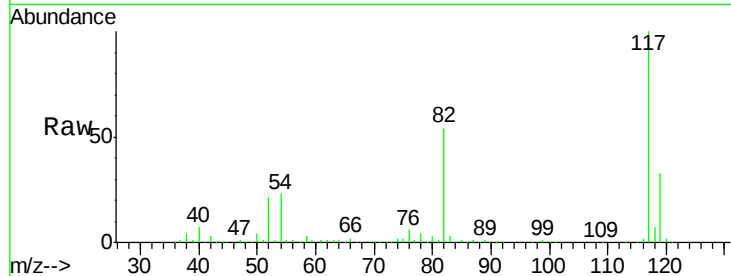




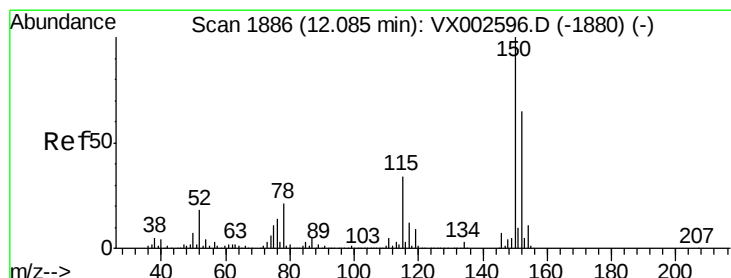
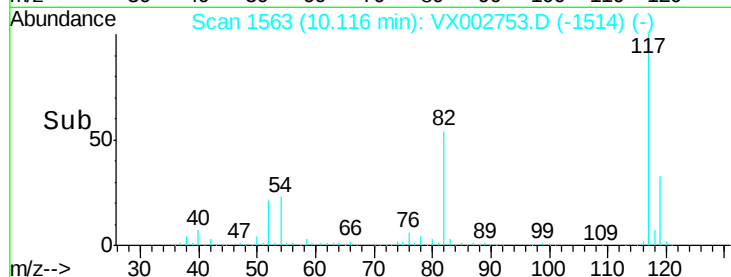
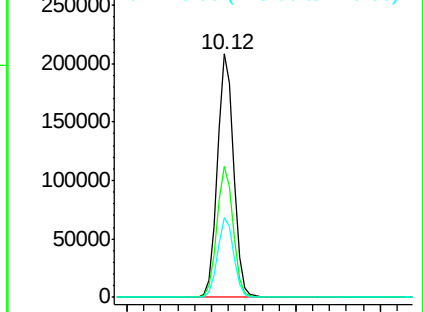
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 278356
Ion Ratio Lower Upper
117 100
82 53.9 45.0 67.4
119 33.0 25.8 38.6

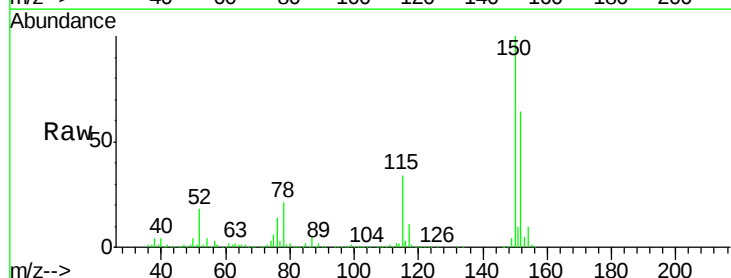


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

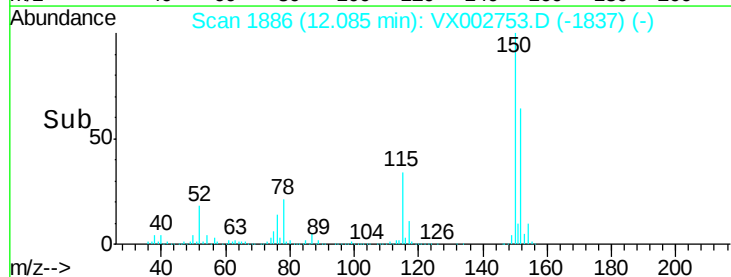
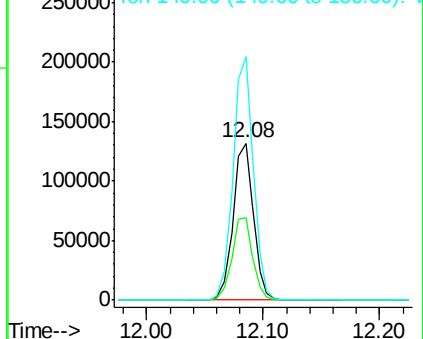


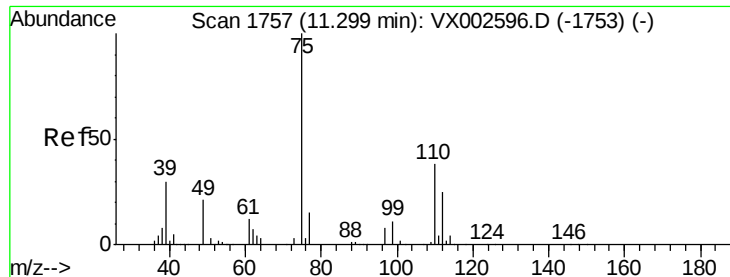
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX002753.D
Acq: 20 Jun 2018 20:20

Tgt Ion:152 Resp: 159957
Ion Ratio Lower Upper
152 100
115 53.8 40.1 120.2
150 155.6 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: 26.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

Instrument :

MSVOA_X

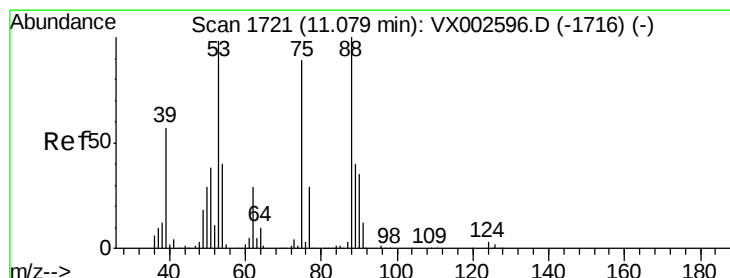
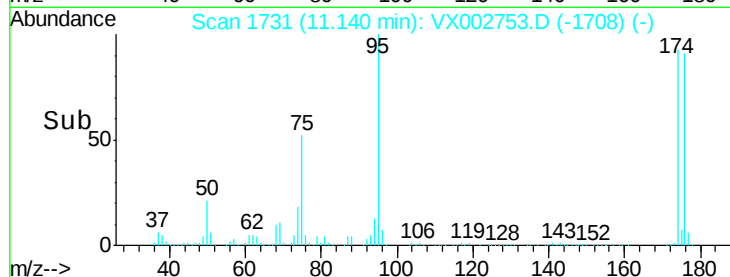
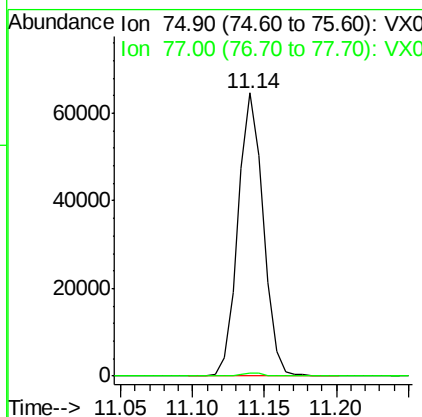
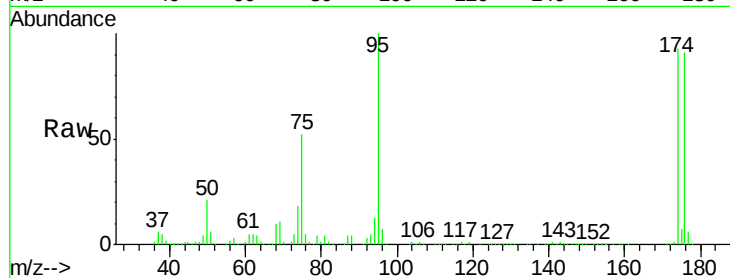
ClientSampleId :

Tot Ion: 75 Resp: 78910

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 80.84 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

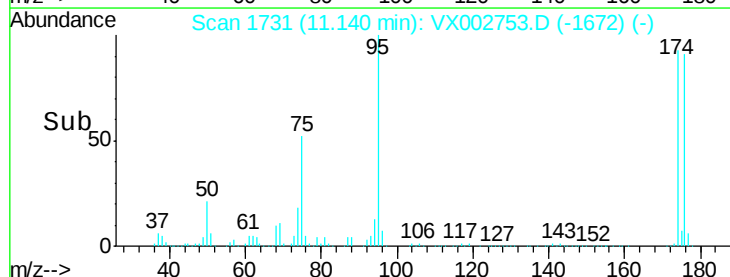
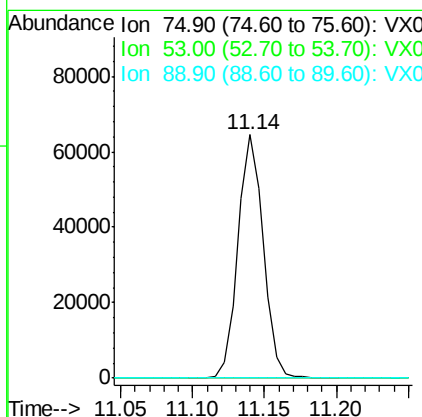
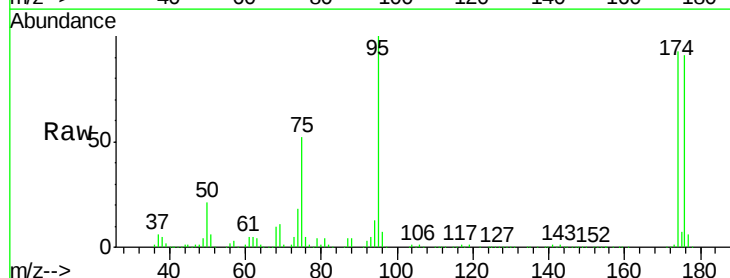
Tgt Ion: 75 Resp: 78910

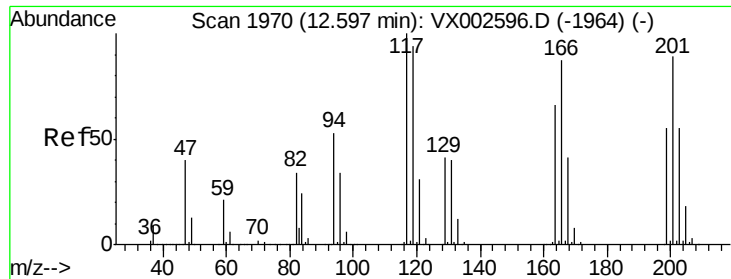
Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 2.64 ug/l

RT: 12.49 min Scan# 1952

Delta R.T. -0.11 min

Lab File: VX002753.D

Acq: 20 Jun 2018 20:20

Instrument :

MSVOA_X

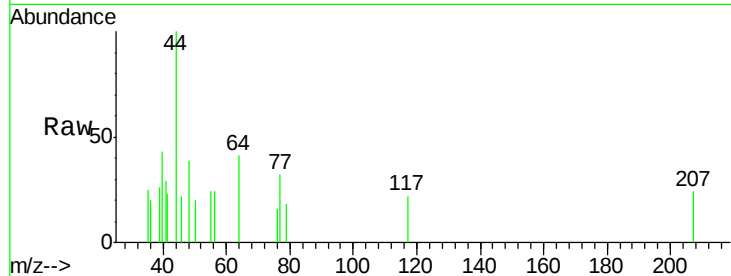
ClientSampleId :

Tot Ion:117 Resp: 25

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

