

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002316.D
 Acq On : 05 Jun 2018 19:58
 Operator : JC/MD
 Sample : J3268-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:34:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 05 03:22:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	231200	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	341008	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	318763	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	178578	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	164903	49.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.74%	
35) Dibromofluoromethane	5.51	113	120856	45.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.14%	
50) Toluene-d8	8.72	98	496041	48.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.52%	
62) 4-Bromofluorobenzene	11.14	95	174306	43.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	87.96%	

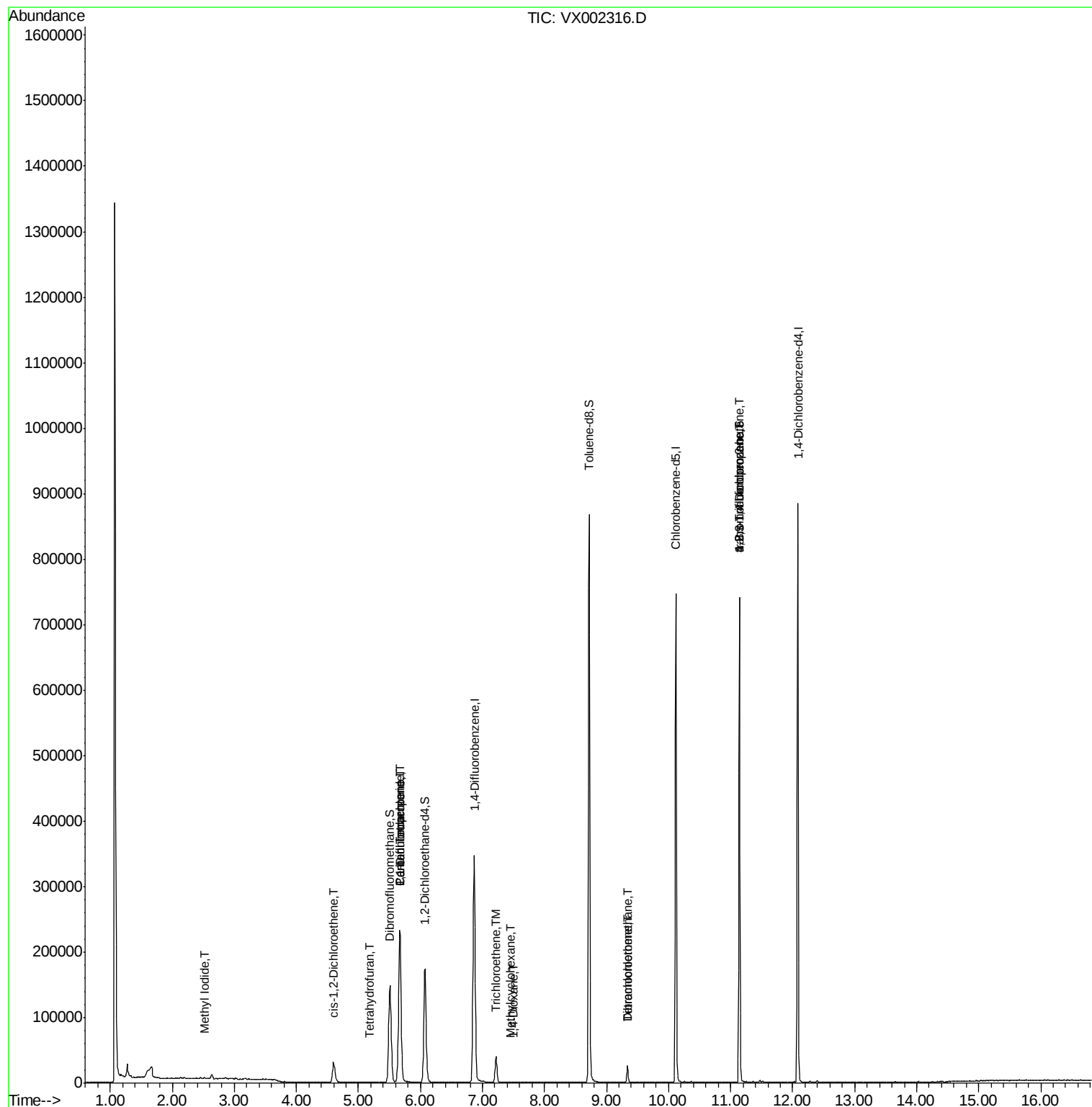
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	546	Below Cal	#	83
5) Bromomethane	1.64	94	1584	Below Cal		83
8) Diethyl Ether	2.23	74	48	Below Cal		68
10) Methyl Iodide	2.51	142	933	0.27	ug/l	# 95
11) Tert butyl alcohol	3.02	59	995	Below Cal	#	94
13) Acrolein	2.32	56	193	Below Cal	#	48
15) Acrylonitrile	3.17	53	84	Below Cal	#	1
16) Acetone	2.45	43	1614	Below Cal		91
18) Methyl Acetate	2.78	43	395	Below Cal		94
19) Methyl tert-butyl Ether	3.21	73	165	Below Cal	#	1
20) Methylene Chloride	2.86	84	456	Below Cal	#	87
22) Diisopropyl ether	3.88	45	198	Below Cal	#	48
27) cis-1,2-Dichloroethene	4.60	96	17850	6.05	ug/l	98
28) Bromochloromethane	5.06	49	29	Below Cal	#	13
29) Tetrahydrofuran	5.18	42	346	0.24	ug/l	# 53
36) 1,1-Dichloropropene	5.67	75	17255	4.81	ug/l	# 49
38) Carbon Tetrachloride	5.67	117	21834	5.82	ug/l	# 16
39) Methylcyclohexane	7.45	83	189	0.30	ug/l	# 16
44) Trichloroethene	7.22	130	15164	4.97	ug/l	89
49) 1,4-Dioxane	7.50	88	20	0.29	ug/l	# 1
60) Dibromochloromethane	9.34	129	4453	1.54	ug/l	# 11
64) Tetrachloroethene	9.34	164	4670	1.42	ug/l	95
76) 1,2,3-Trichloropropane	11.14	75	93319	23.82	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	93319	83.48	ug/l	# 7

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

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Quant Title : SW846 8260
QLast Update : Tue Jun 05 03:22:35 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: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :

MSVOA_X

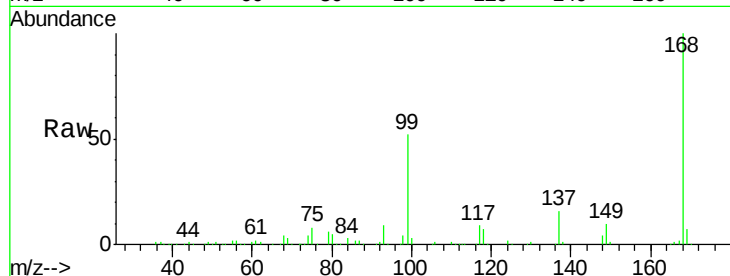
ClientSampleId :

Tot Ion:168 Resp: 231200

Ion Ratio Lower Upper

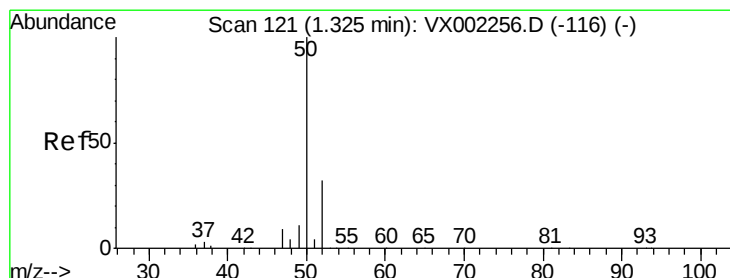
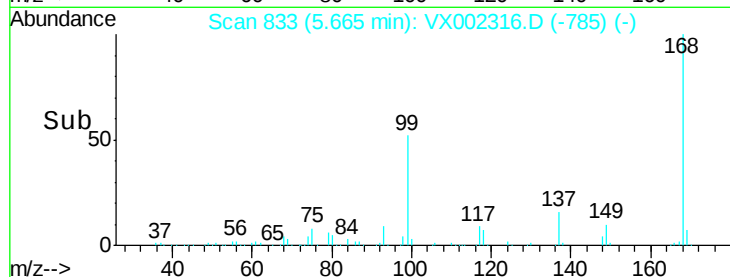
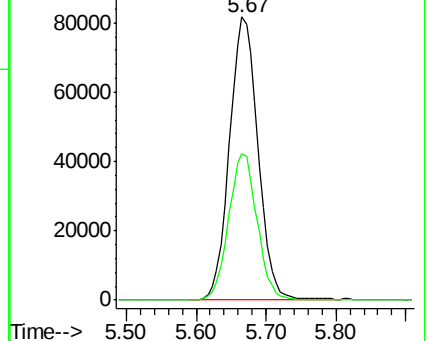
168 100

99 51.6 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: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002316.D

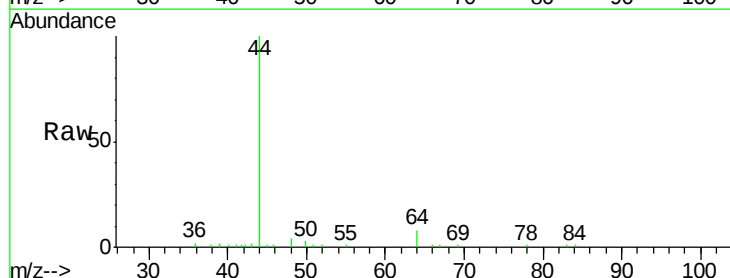
Acq: 05 Jun 2018 19:58

Tgt Ion: 50 Resp: 546

Ion Ratio Lower Upper

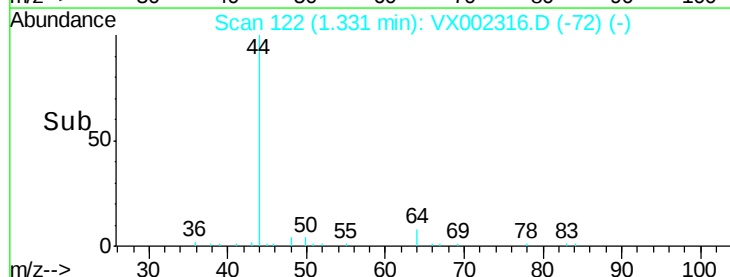
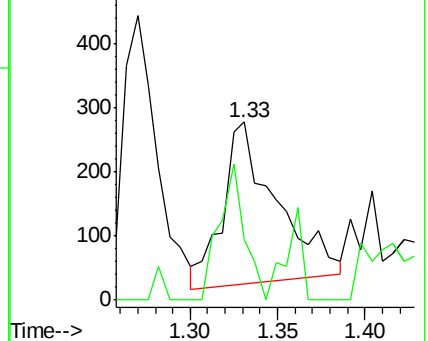
50 100

52 41.4 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: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :

MSVOA_X

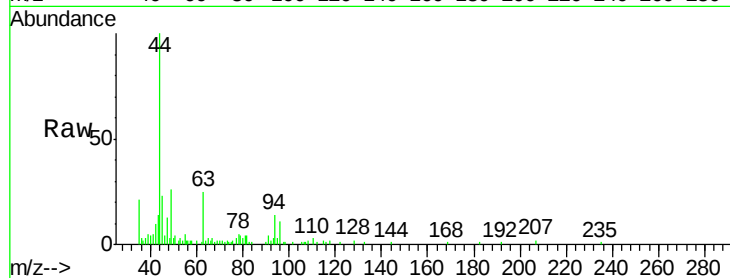
ClientSampled :

Tot Ion: 94 Resp: 1584

Ion Ratio Lower Upper

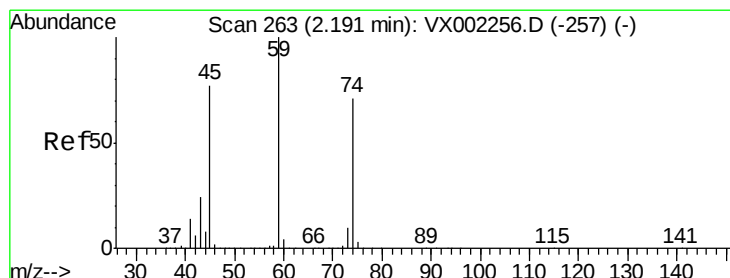
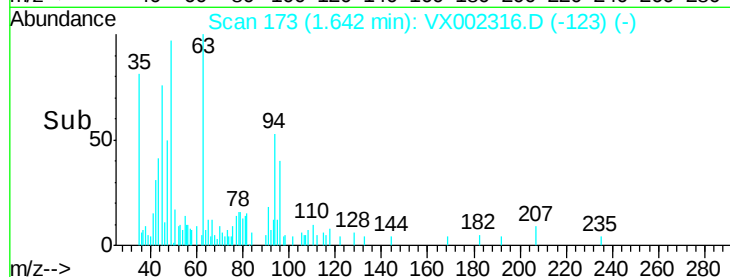
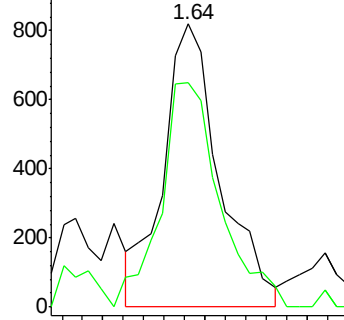
94 100

96 77.7 74.9 112.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#8

Diethyl Ether

Concen: Below Cal

RT: 2.23 min Scan# 269

Delta R.T. 0.04 min

Lab File: VX002316.D

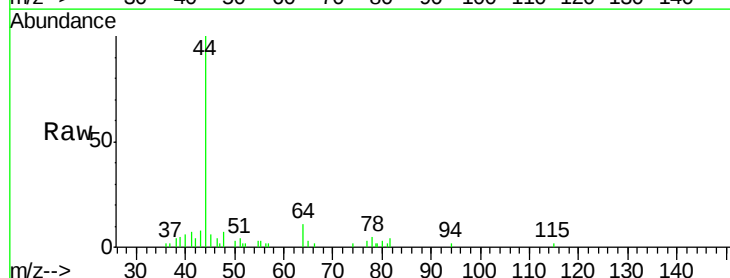
Acq: 05 Jun 2018 19:58

Tgt Ion: 74 Resp: 48

Ion Ratio Lower Upper

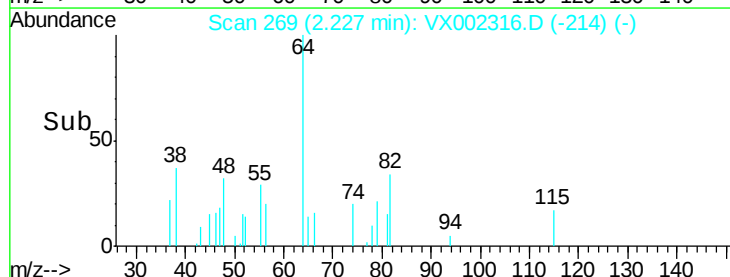
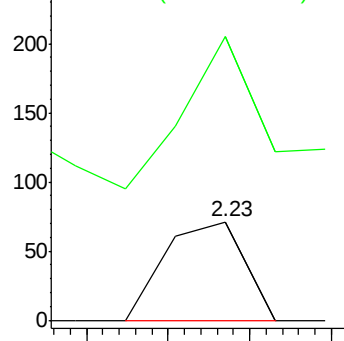
74 100

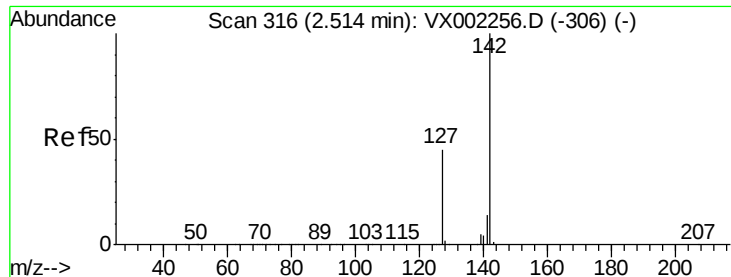
45 139.6 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

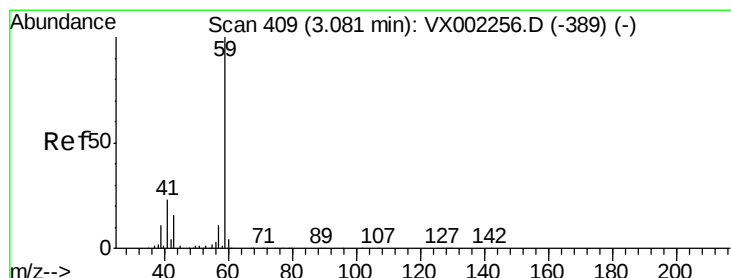
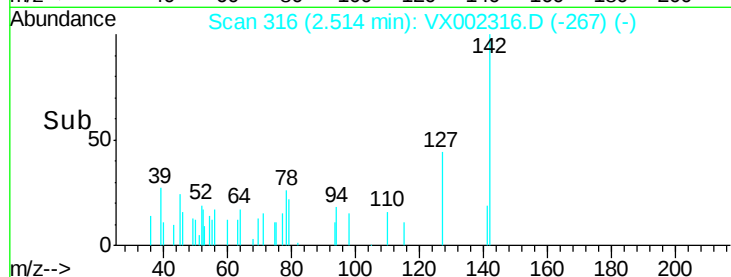
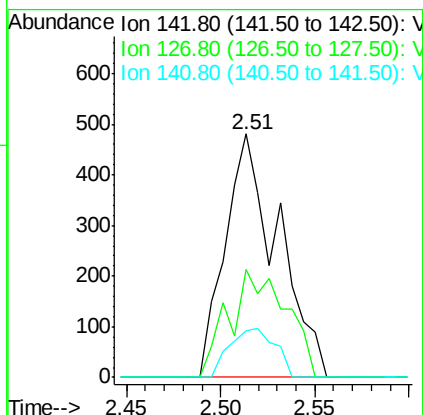
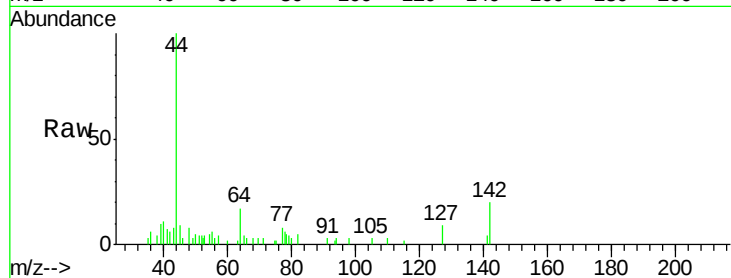




#10
Methyl Iodide
Concen: 0.27 ug/l
RT: 2.51 min Scan# 316
Delta R.T. -0.00 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

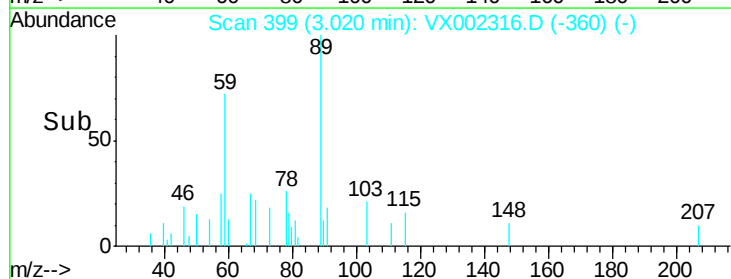
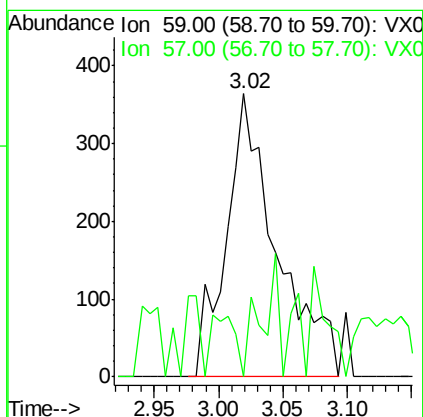
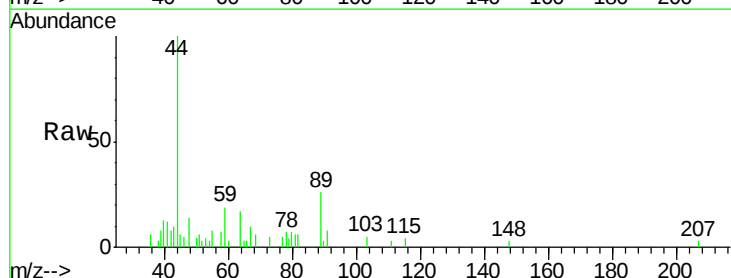
Instrument :
MSVOA_X
ClientSampled :

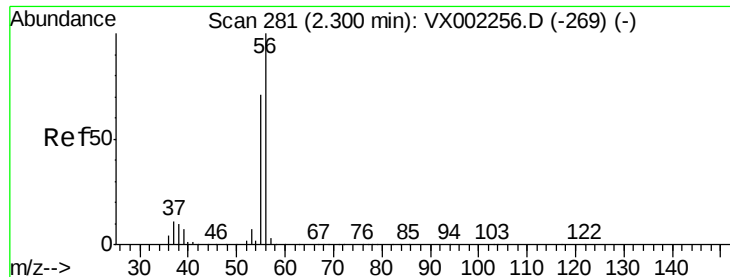
Tot Ion:142 Resp: 933
Ion Ratio Lower Upper
142 100
127 48.1 36.6 55.0
141 17.6 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.02 min Scan# 399
Delta R.T. -0.06 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

Tgt Ion: 59 Resp: 995
Ion Ratio Lower Upper
59 100
57 8.1 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.32 min Scan# 285

Delta R.T. 0.02 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

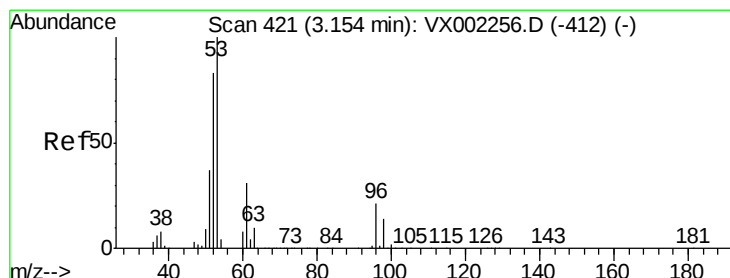
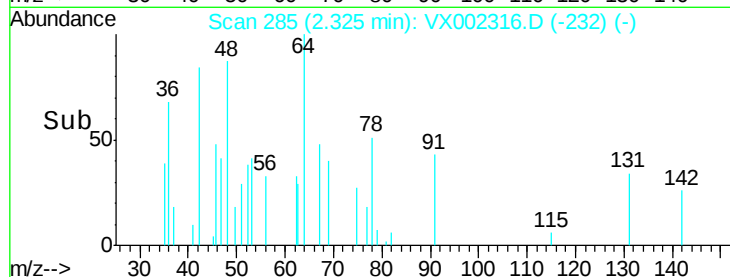
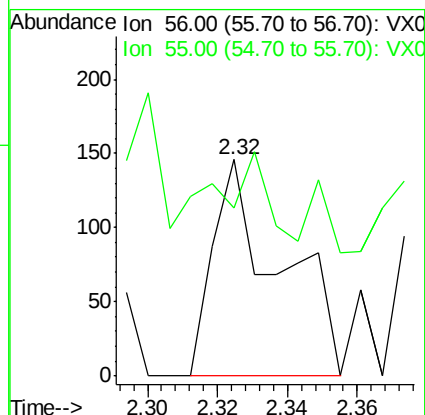
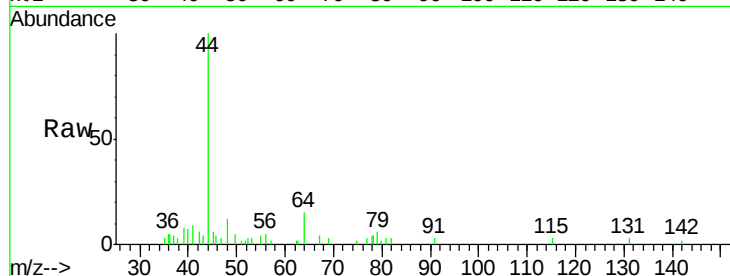
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 193

Ion Ratio Lower Upper

56 100

55 28.5 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

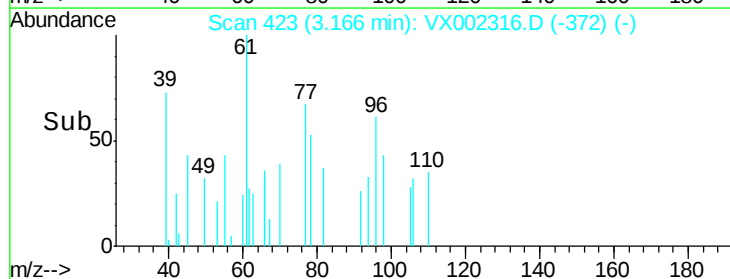
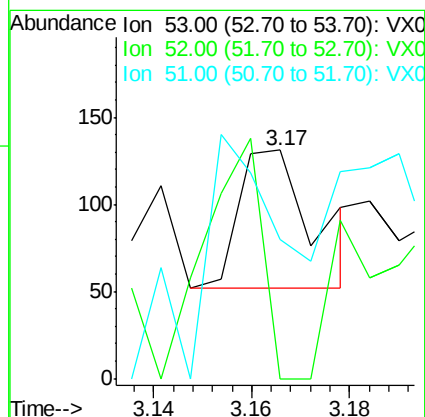
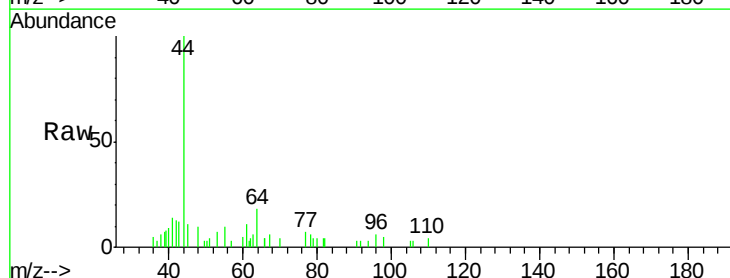
Tgt Ion: 53 Resp: 84

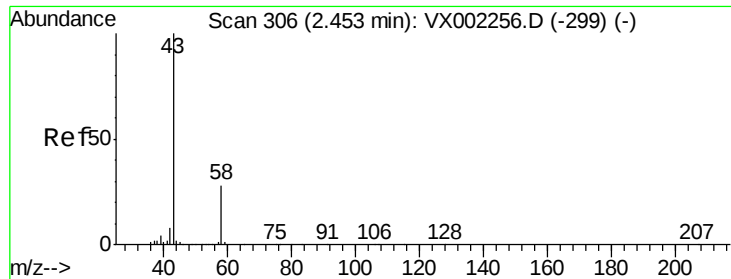
Ion Ratio Lower Upper

53 100

52 131.0 66.7 100.1#

51 204.8 29.9 44.9#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :

MSVOA_X

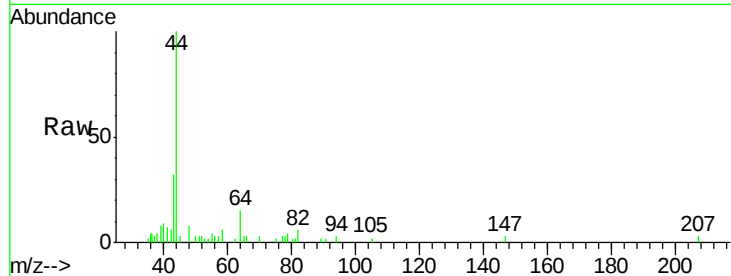
ClientSampleId :

Tot Ion: 43 Resp: 1614

Ion Ratio Lower Upper

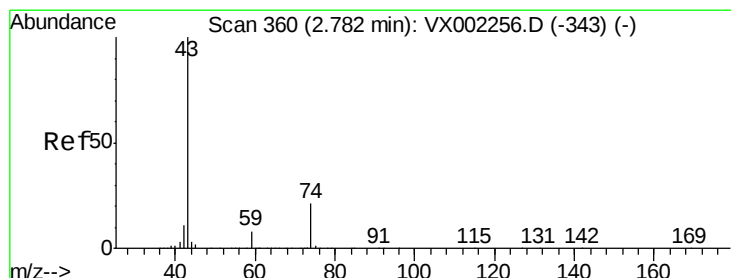
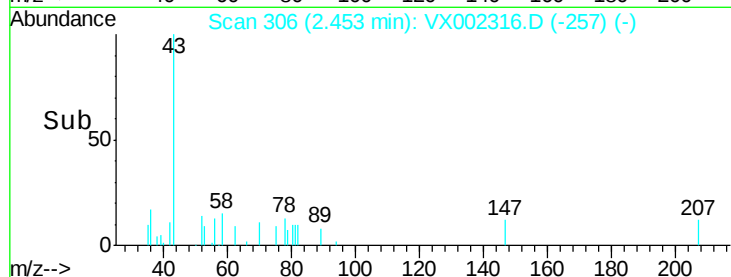
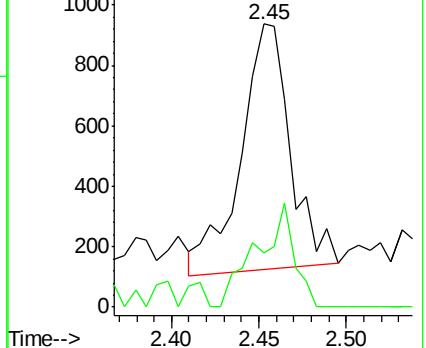
43 100

58 22.7 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. -0.00 min

Lab File: VX002316.D

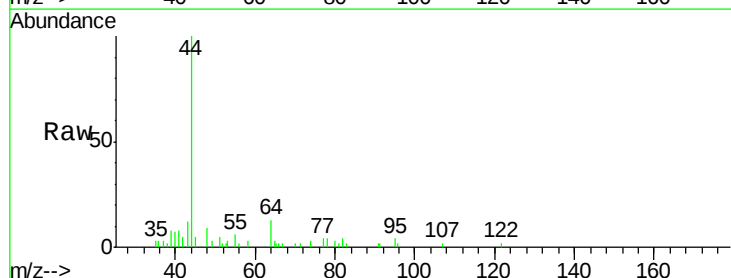
Acq: 05 Jun 2018 19:58

Tgt Ion: 43 Resp: 395

Ion Ratio Lower Upper

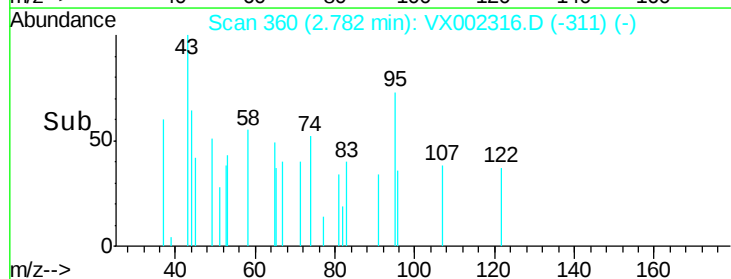
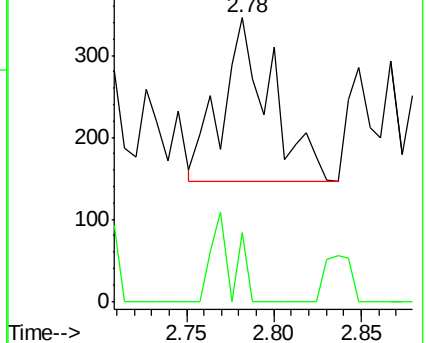
43 100

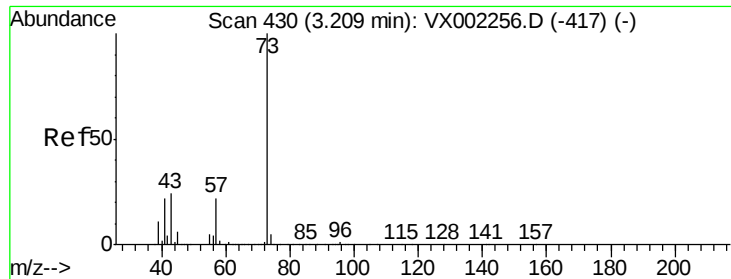
74 23.5 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



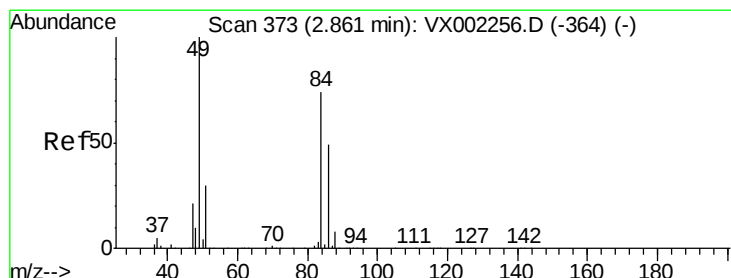
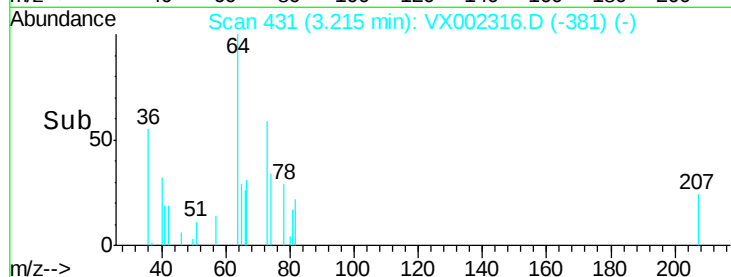
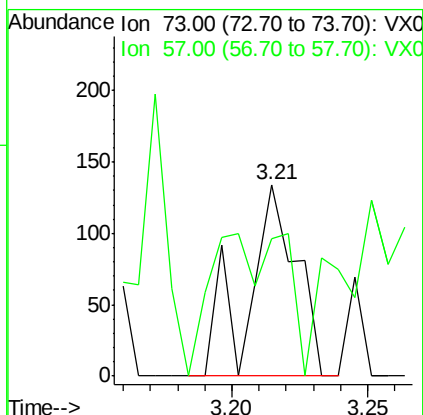
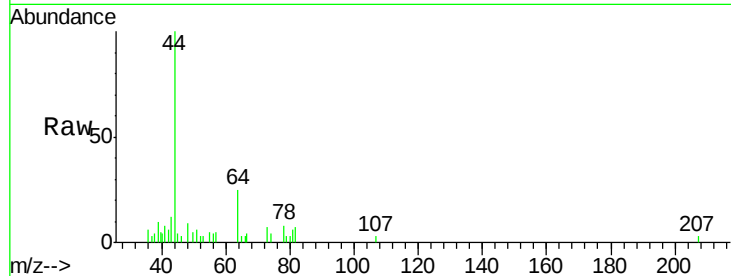


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

Instrument :
MSVOA_X
ClientSampled :

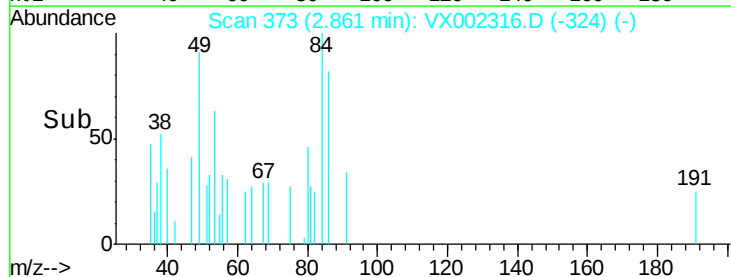
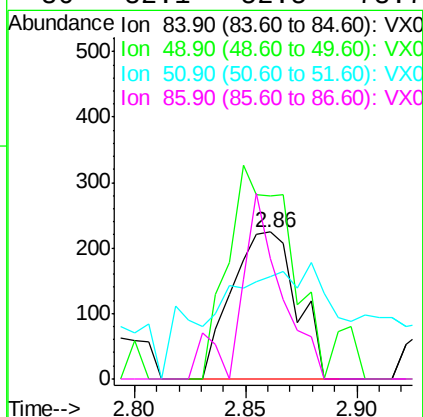
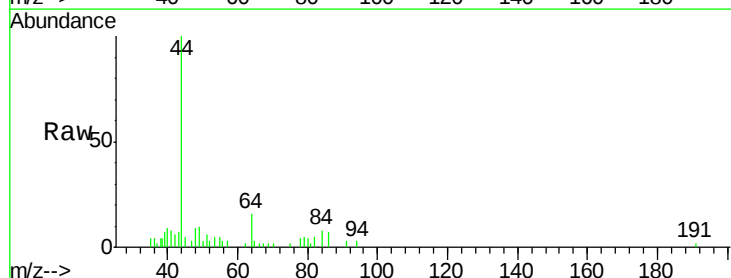
Tot Ion: 73 Resp: 165
Ion Ratio Lower Upper
73 100
57 71.6 17.7 26.5#

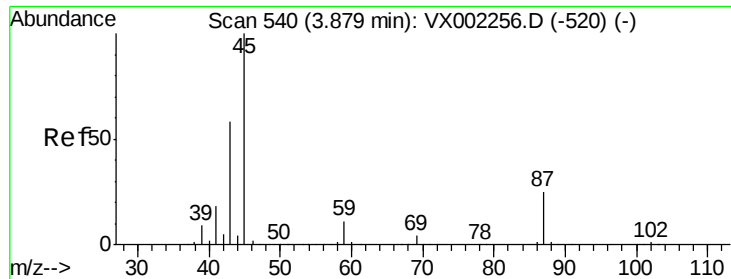


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

Tgt Ion: 84 Resp: 456
Ion Ratio Lower Upper
84 100
49 125.0 107.8 161.6
51 29.9 32.8 49.2#
86 82.1 52.5 78.7#



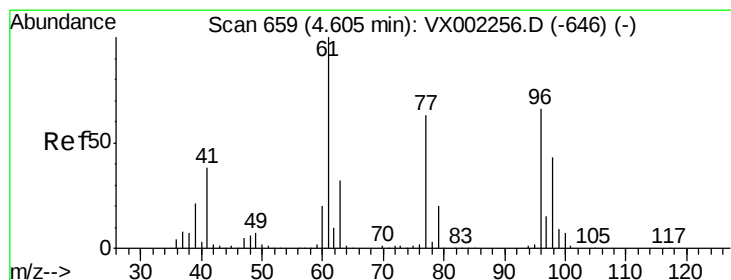
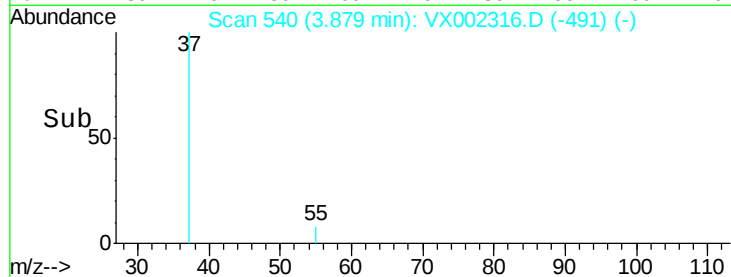
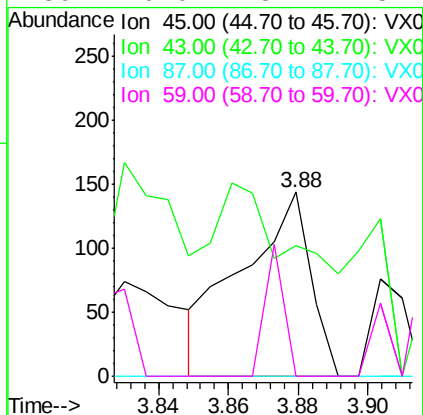
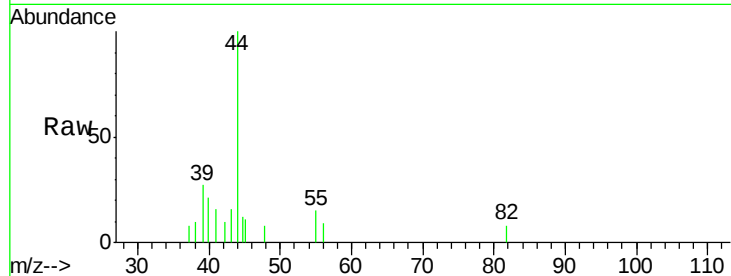


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.88 min Scan# 540
Delta R.T. 0.00 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

Instrument :
MSVOA_X
ClientSampleId :

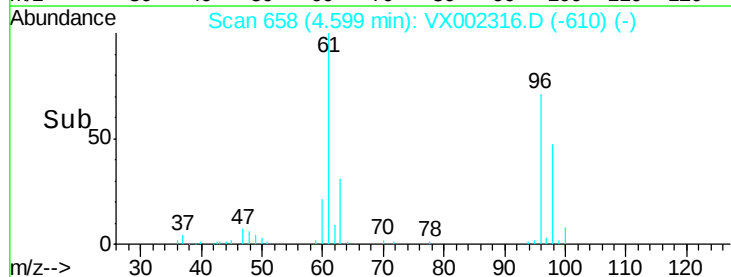
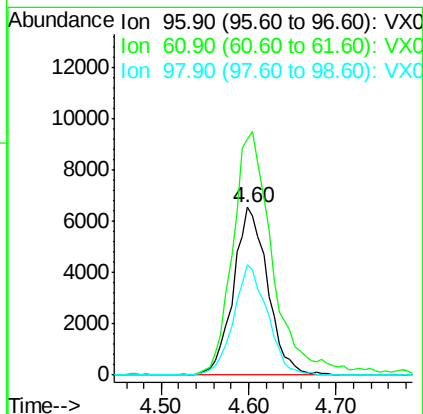
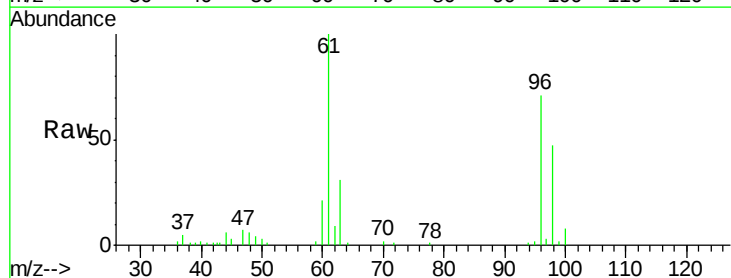
Tot Ion: 45 Resp: 198
Ion Ratio Lower Upper
45 100
43 15.3 46.8 70.2#
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#

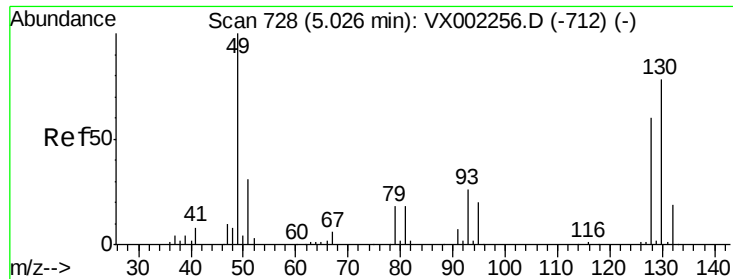


#27

cis-1,2-Dichloroethene
Concen: 6.05 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.01 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

Tgt Ion: 96 Resp: 17850
Ion Ratio Lower Upper
96 100
61 168.3 0.0 330.2
98 64.9 0.0 130.2





#28

Bromochloromethane

Concen: Below Cal

RT: 5.06 min Scan# 733

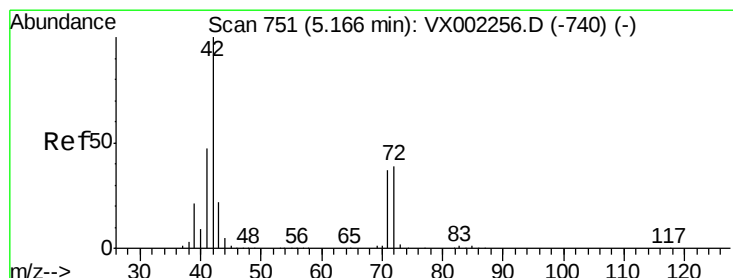
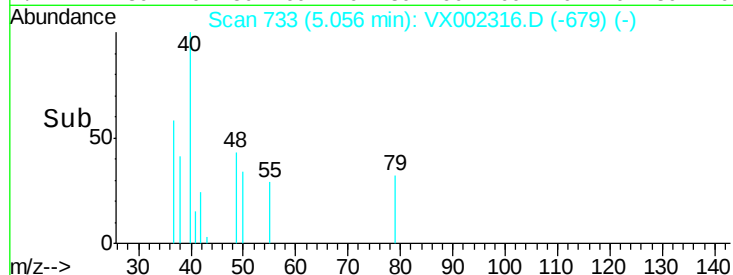
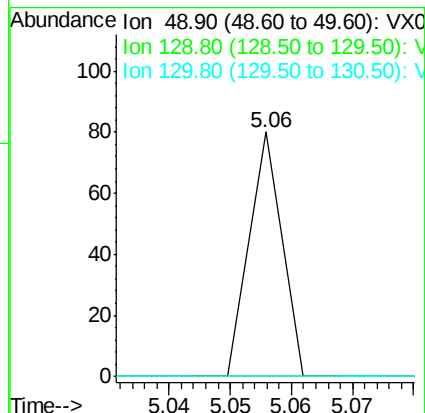
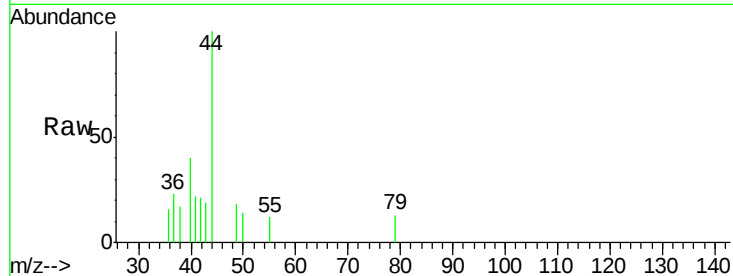
Delta R.T. 0.03 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 29
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 0.0 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.24 ug/l

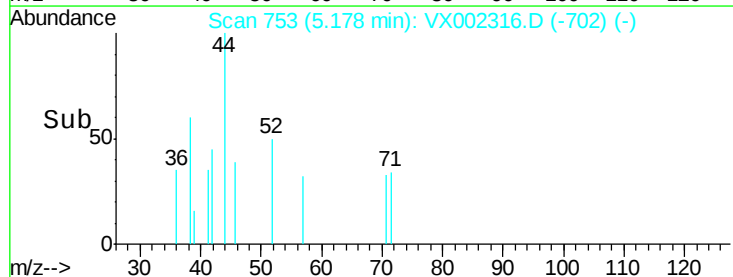
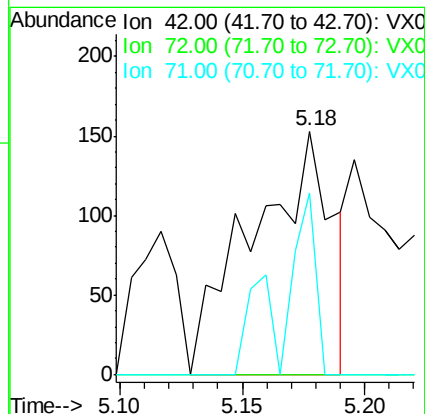
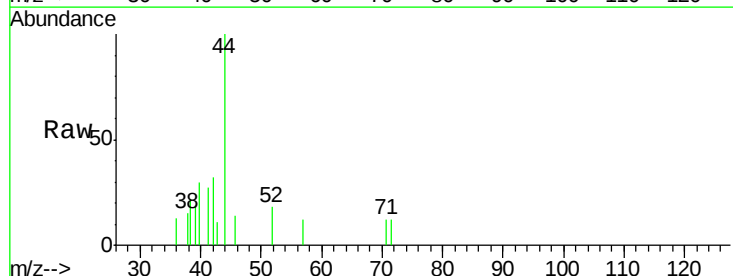
RT: 5.18 min Scan# 753

Delta R.T. 0.01 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Tgt Ion: 42 Resp: 346
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 20.2 30.1 45.1#

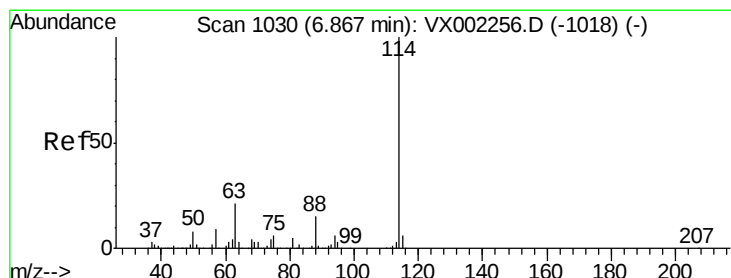
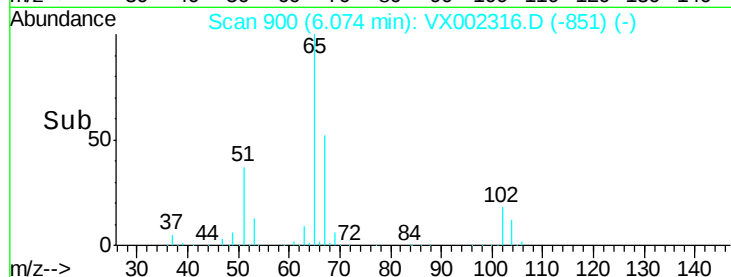
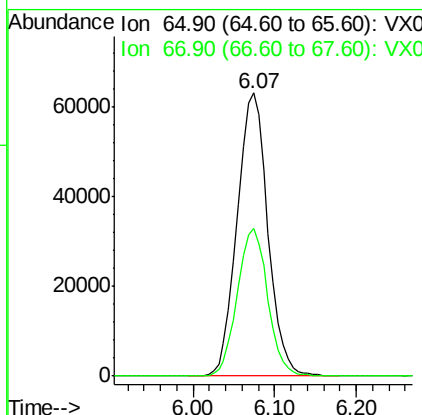
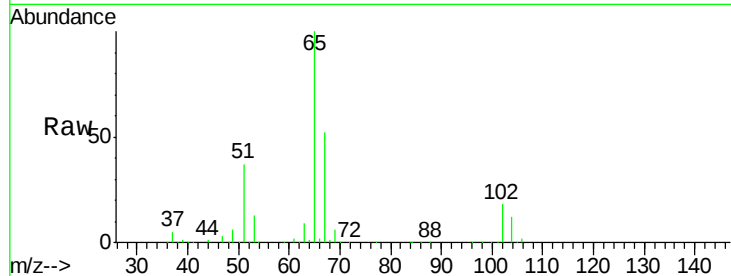




#33
 1,2-Dichloroethane-d4
 Concen: 49.87 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002316.D
 Acq: 05 Jun 2018 19:58

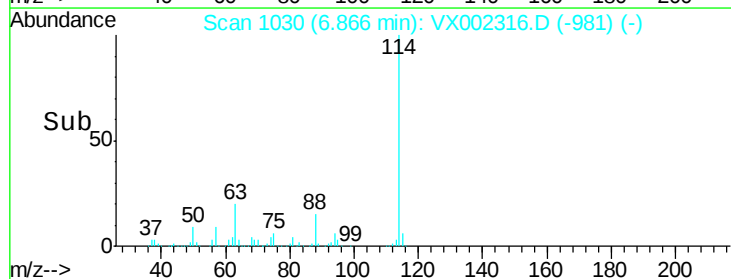
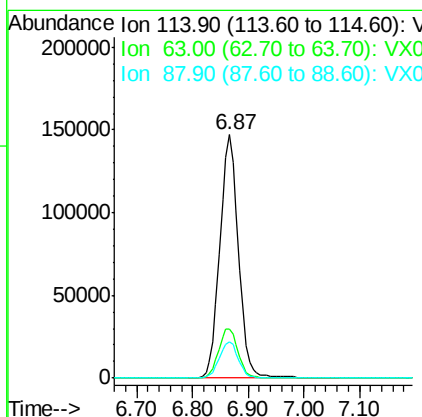
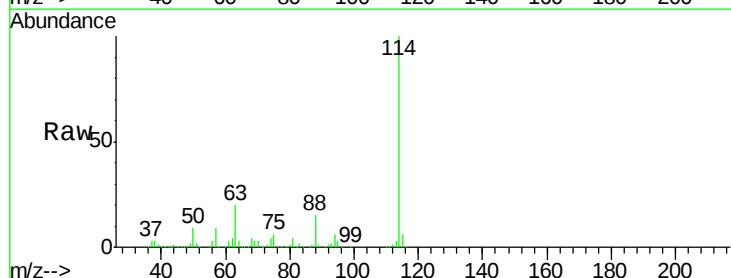
Instrument :
 MSVOA_X
 ClientSampleId :

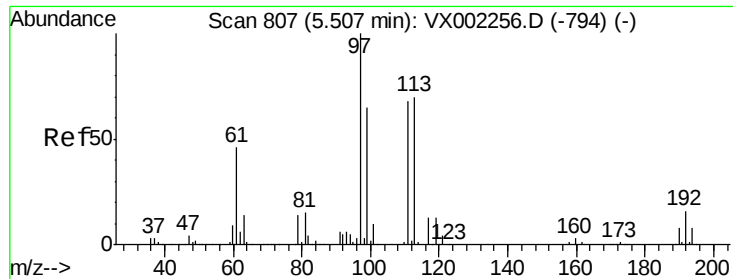
Tot Ion: 65 Resp: 164903
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002316.D
 Acq: 05 Jun 2018 19:58

Tgt Ion: 114 Resp: 341008
 Ion Ratio Lower Upper
 114 100
 63 20.2 0.0 41.4
 88 15.1 0.0 30.0





#35

Dibromofluoromethane

Concen: 45.07 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :
MSVOA_X
ClientSampled :

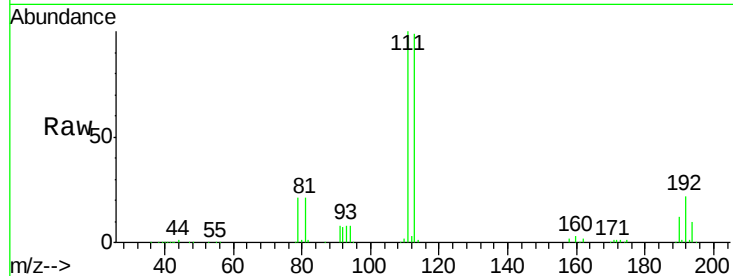
Tot Ion:113 Resp: 120856

Ion Ratio Lower Upper

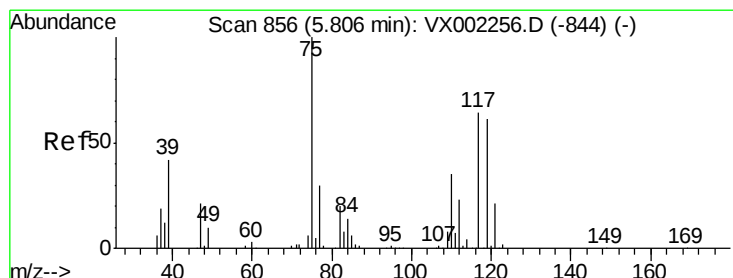
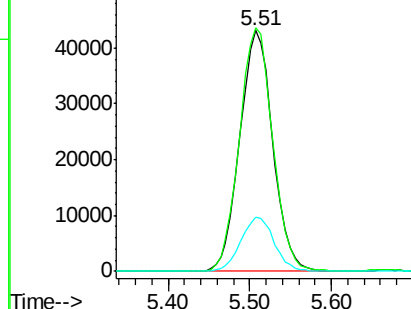
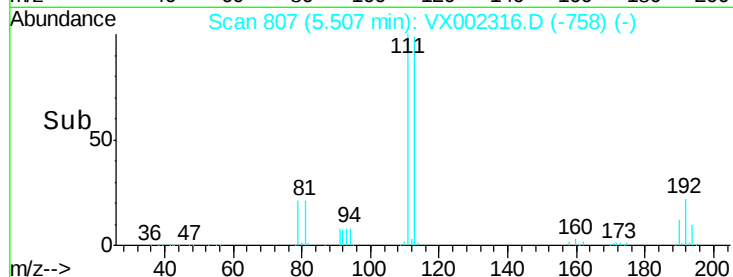
113 100

111 102.1 81.4 122.0

192 22.8 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: 4.81 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

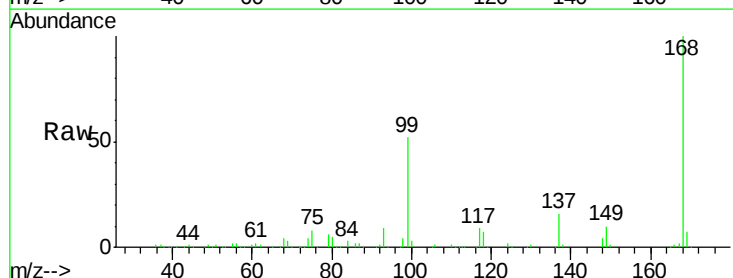
Tgt Ion: 75 Resp: 17255

Ion Ratio Lower Upper

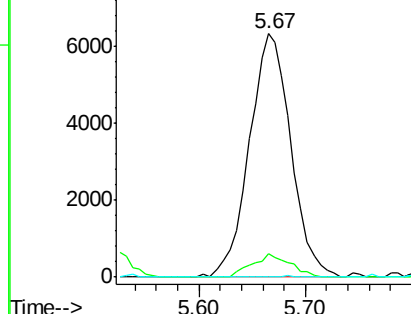
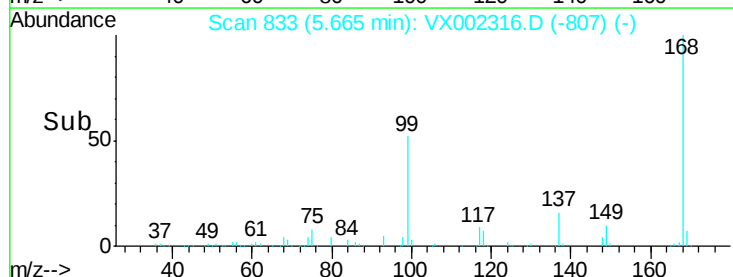
75 100

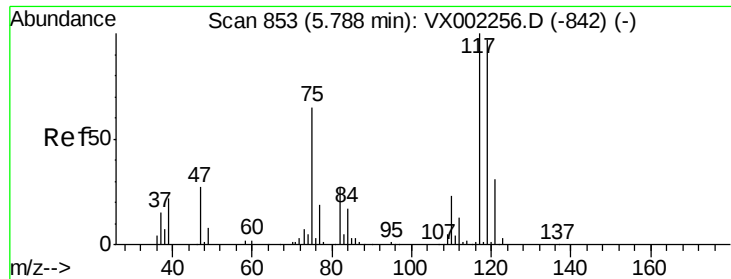
110 8.9 18.1 54.4#

77 0.1 24.3 36.5#



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

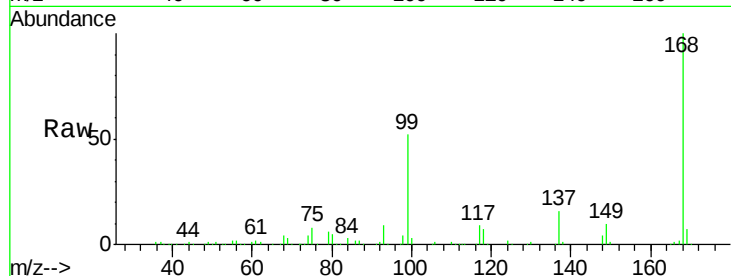




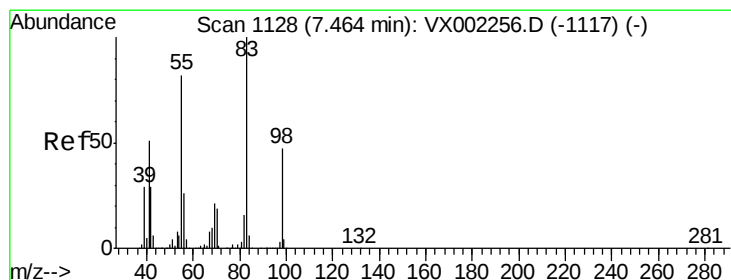
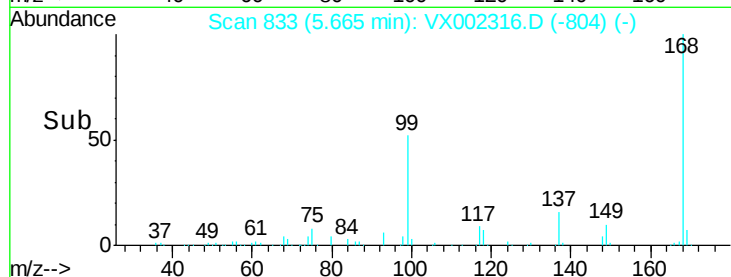
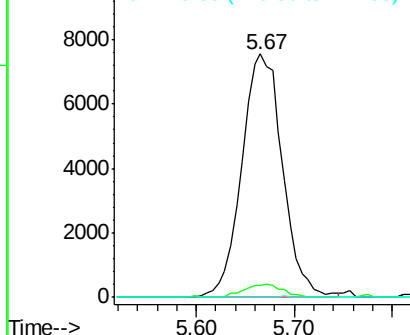
#38
Carbon Tetrachloride
Concen: 5.82 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

Instrument :
MSVOA_X
ClientSampled :

Tot Ion:117 Resp: 21834
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.0#
121 0.0 24.4 36.6#

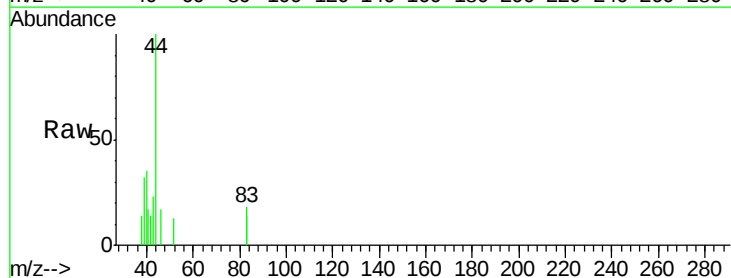


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

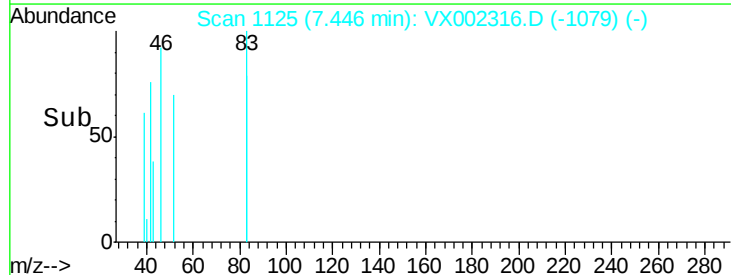
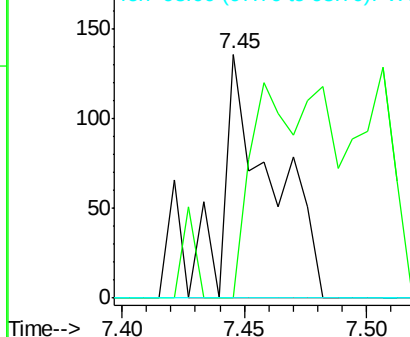


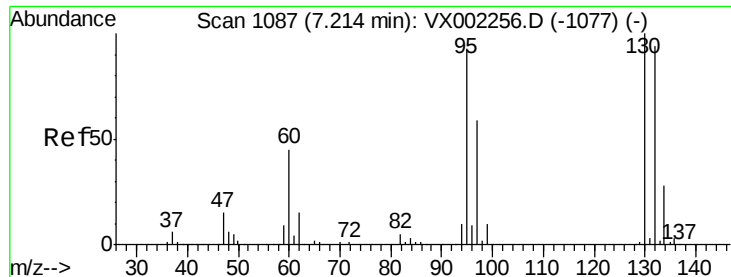
#39
Methylcyclohexane
Concen: 0.30 ug/l
RT: 7.45 min Scan# 1125
Delta R.T. -0.02 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

Tgt Ion: 83 Resp: 189
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.0 37.4 56.0#



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 4.97 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :

MSVOA_X

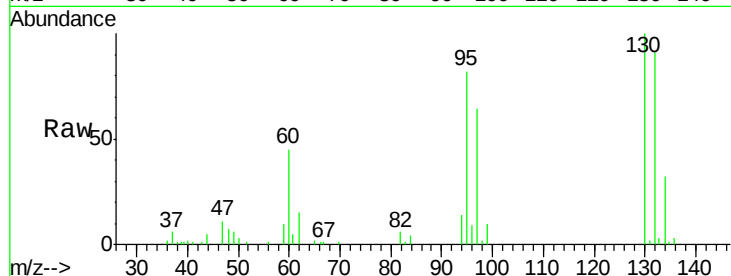
ClientSampled :

Tot Ion:130 Resp: 15164

Ion Ratio Lower Upper

130 100

95 82.2 0.0 185.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

8000

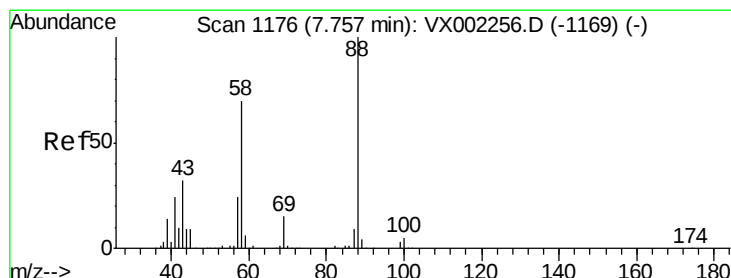
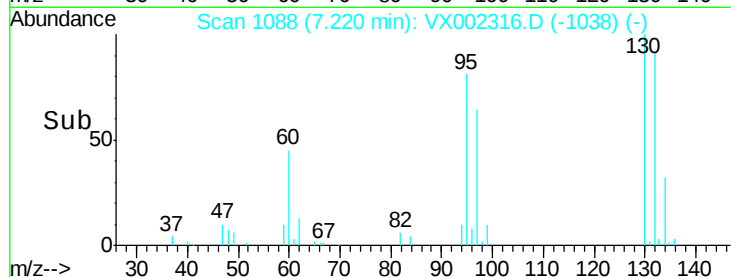
6000

4000

2000

0

Time--> 7.10 7.20 7.30



#49

1,4-Dioxane

Concen: 0.29 ug/l

RT: 7.50 min Scan# 1134

Delta R.T. -0.26 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

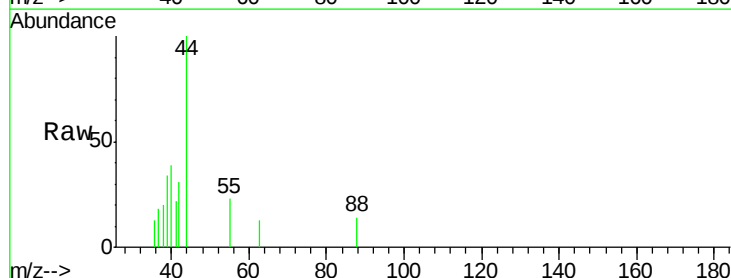
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 565.0 29.8 44.6#

58 0.0 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

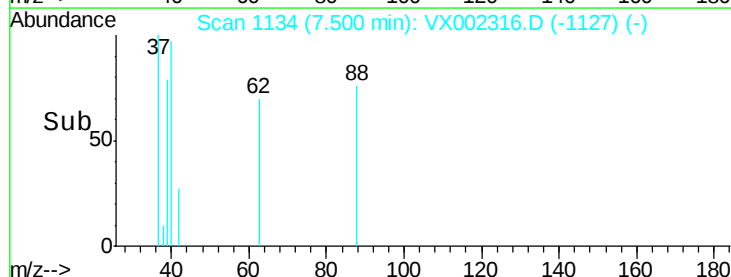
150

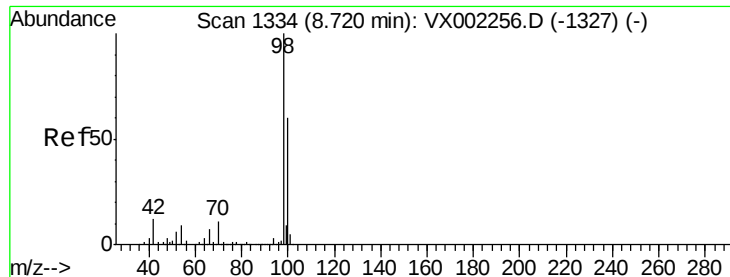
100

50

0

Time--> 7.48 7.49 7.50 7.51 7.52

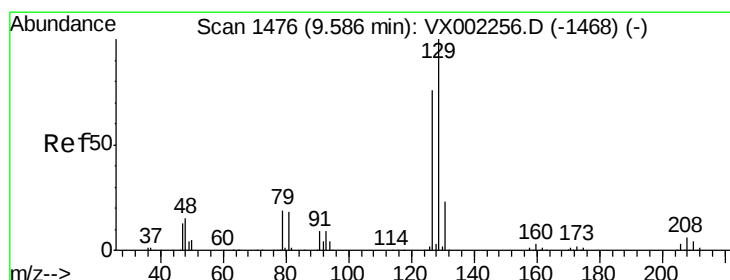
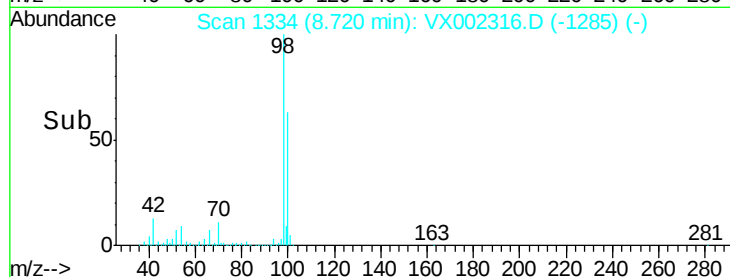
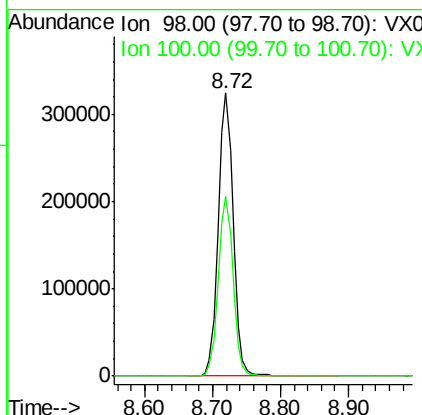
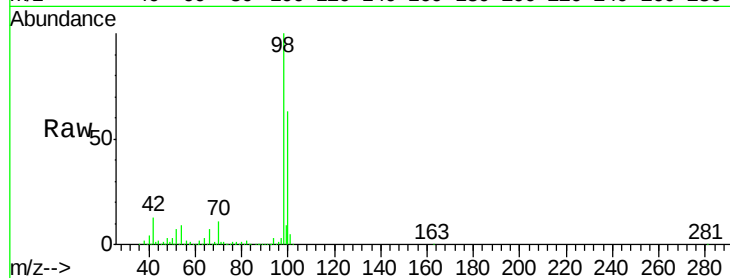




#50
Toluene-d8
Concen: 48.26 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

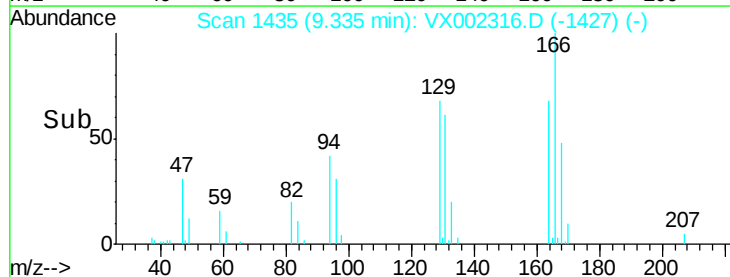
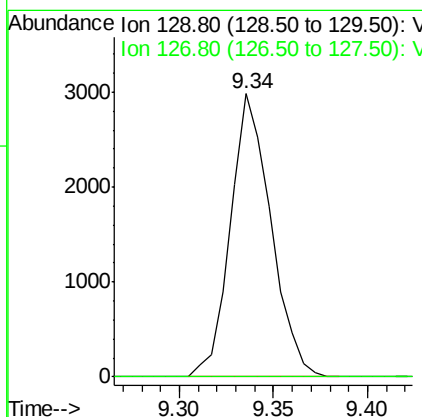
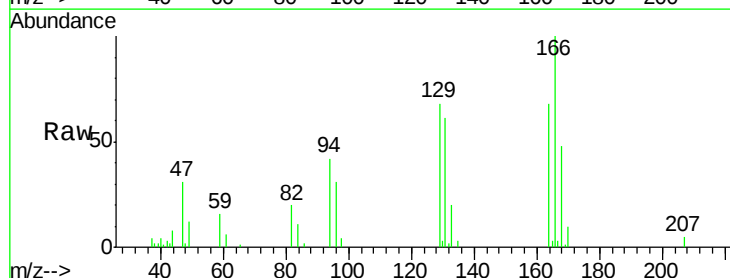
Instrument :
MSVOA_X
ClientSampleId :

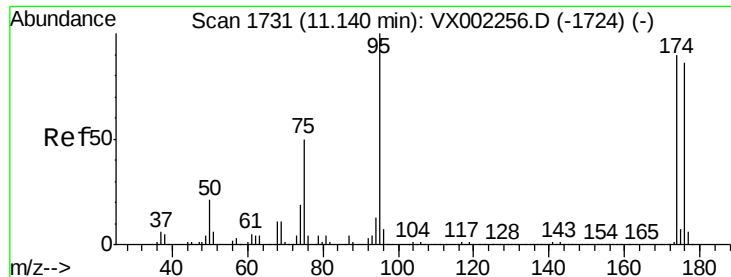
Tot Ion: 98 Resp: 496041
Ion Ratio Lower Upper
98 100
100 63.2 50.9 76.3



#60
Dibromochloromethane
Concen: 1.54 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX002316.D
Acq: 05 Jun 2018 19:58

Tgt Ion: 129 Resp: 4453
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.3#





#62

4-Bromofluorobenzene

Concen: 43.98 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :

MSVOA_X

ClientSampleId :

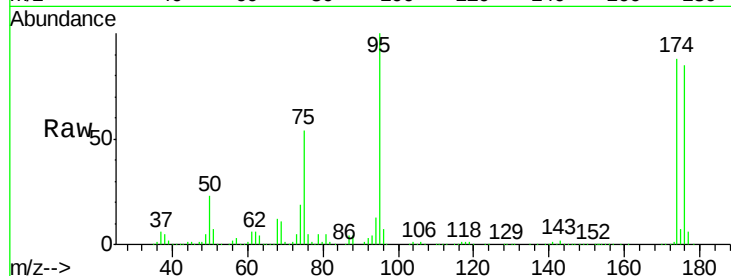
Tot Ion: 95 Resp: 174306

Ion Ratio Lower Upper

95 100

174 93.6 0.0 187.4

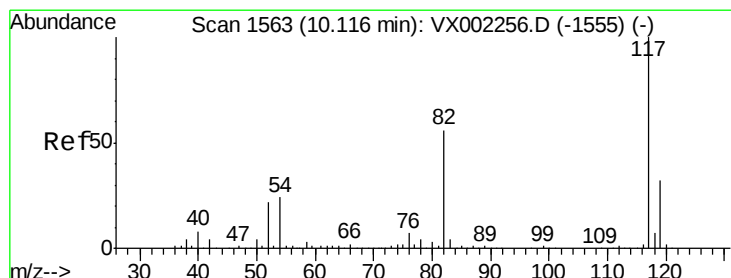
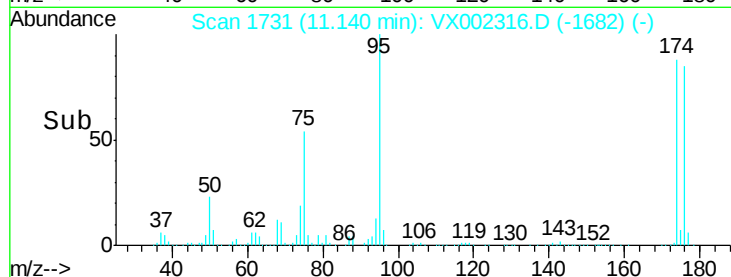
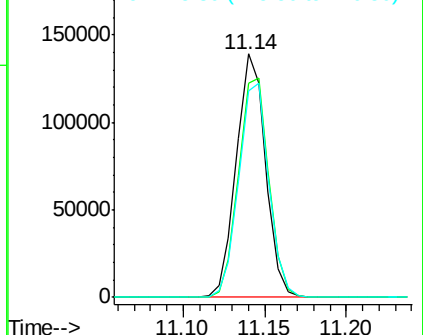
176 90.8 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002256.D (-1724) (-)

Ion 173.80 (173.50 to 174.50): VX002256.D (-1724) (-)

Ion 175.80 (175.50 to 176.50): VX002256.D (-1724) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

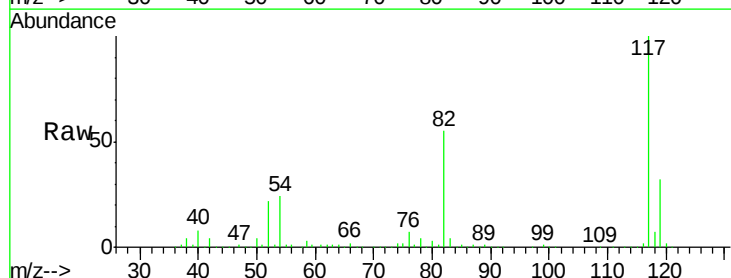
Tgt Ion: 117 Resp: 318763

Ion Ratio Lower Upper

117 100

82 54.7 45.0 67.4

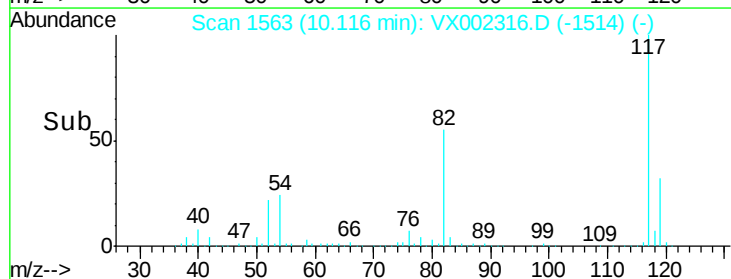
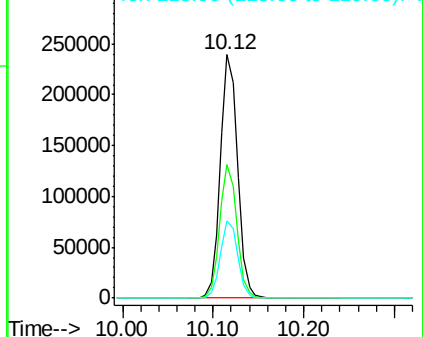
119 31.7 25.8 38.6

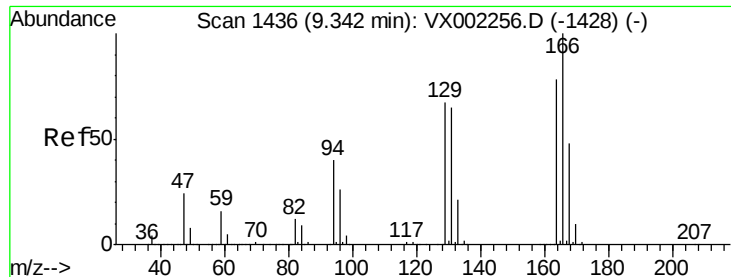


Abundance Ion 116.90 (116.60 to 117.60): VX002256.D (-1555) (-)

Ion 82.00 (81.70 to 82.70): VX002256.D (-1555) (-)

Ion 118.90 (118.60 to 119.60): VX002256.D (-1555) (-)





#64

Tetrachloroethene

Concen: 1.42 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.00 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 4670

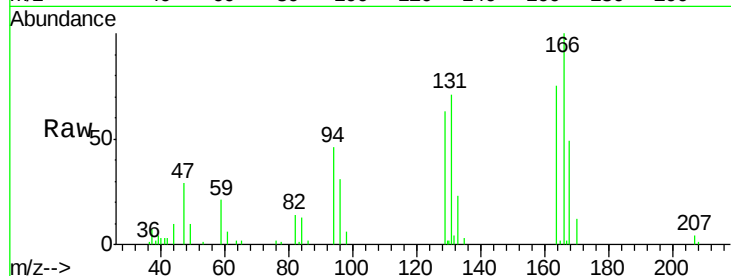
Ion Ratio Lower Upper

164 100

166 132.7 102.9 154.3

129 83.6 68.6 102.8

131 93.9 66.8 100.2

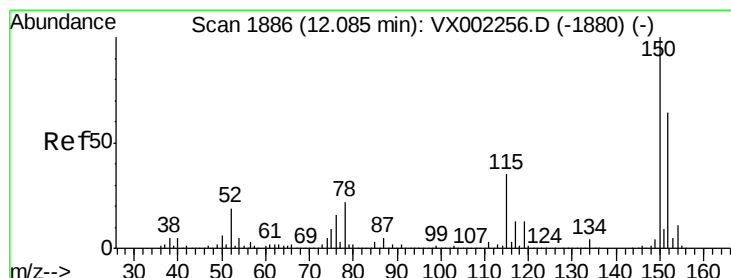
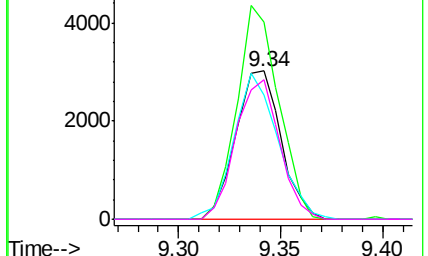
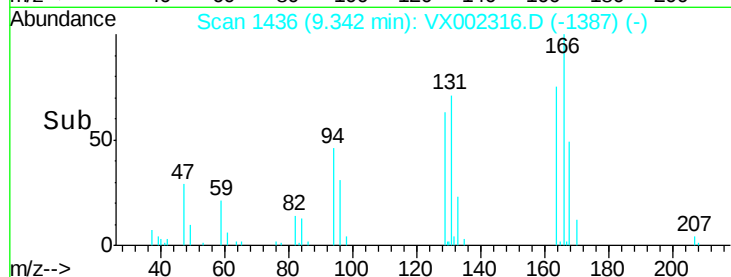


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): 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: VX002316.D

Acq: 05 Jun 2018 19:58

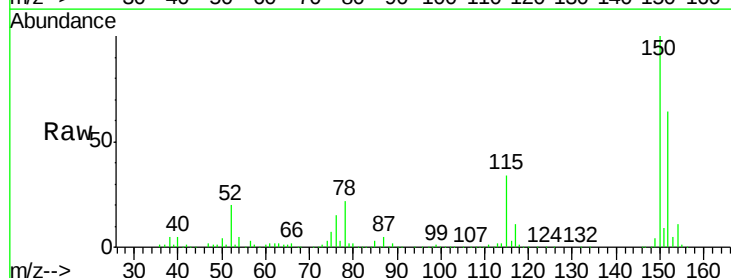
Tgt Ion:152 Resp: 178578

Ion Ratio Lower Upper

152 100

115 54.8 40.1 120.2

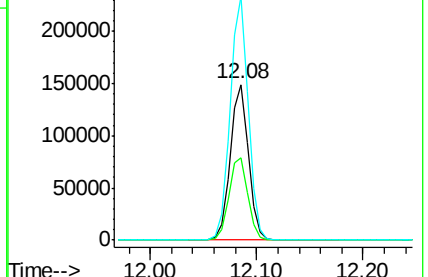
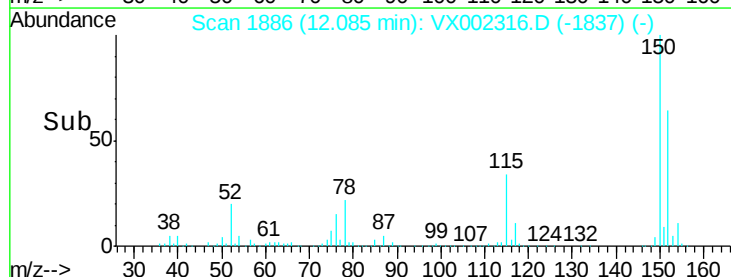
150 156.1 0.0 347.2

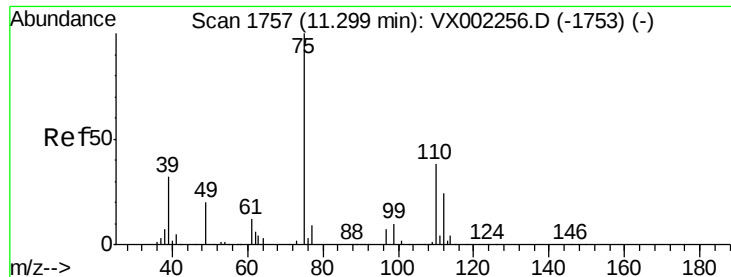


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.82 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Instrument :

MSVOA_X

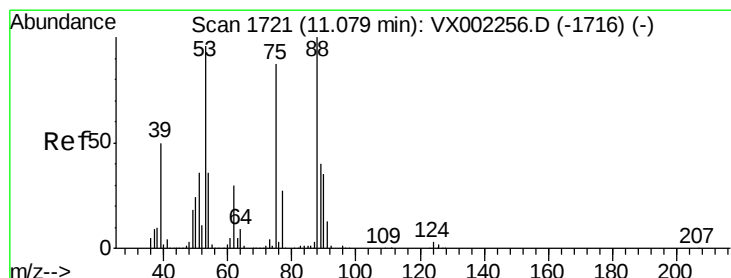
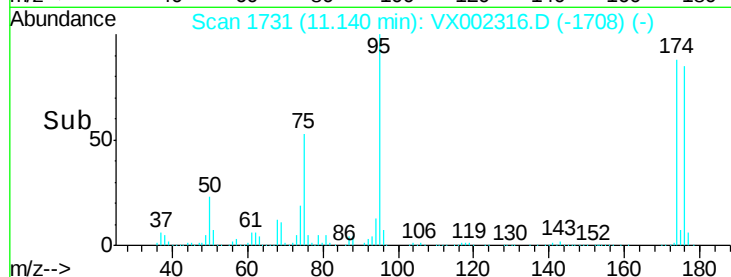
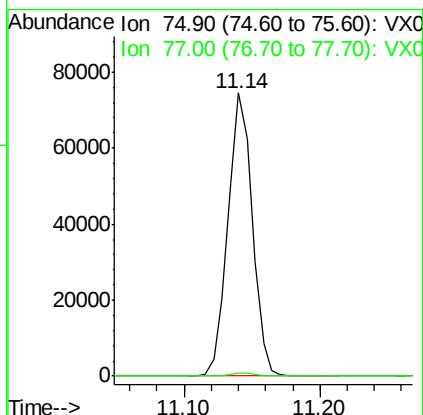
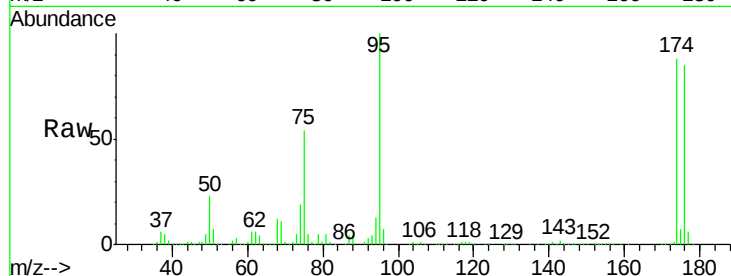
ClientSampleId :

Tot Ion: 75 Resp: 93319

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 83.48 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002316.D

Acq: 05 Jun 2018 19:58

Tgt Ion: 75 Resp: 93319

Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#

