

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061318\
 Data File : VX002502.D
 Acq On : 13 Jun 2018 10:56
 Operator : JC/MD
 Sample : VX0613WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 14 01:41:47 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	207484	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	301969	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	283277	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	157177	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	161953	54.93	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.86%		
35) Dibromofluoromethane	5.51	113	121068	50.98	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.96%		
50) Toluene-d8	8.72	98	478054	52.52	ug/l	0.00
Spiked Amount 50.000			Recovery =	105.04%		
62) 4-Bromofluorobenzene	11.14	95	164199	46.78	ug/l	0.00
Spiked Amount 50.000			Recovery =	93.56%		

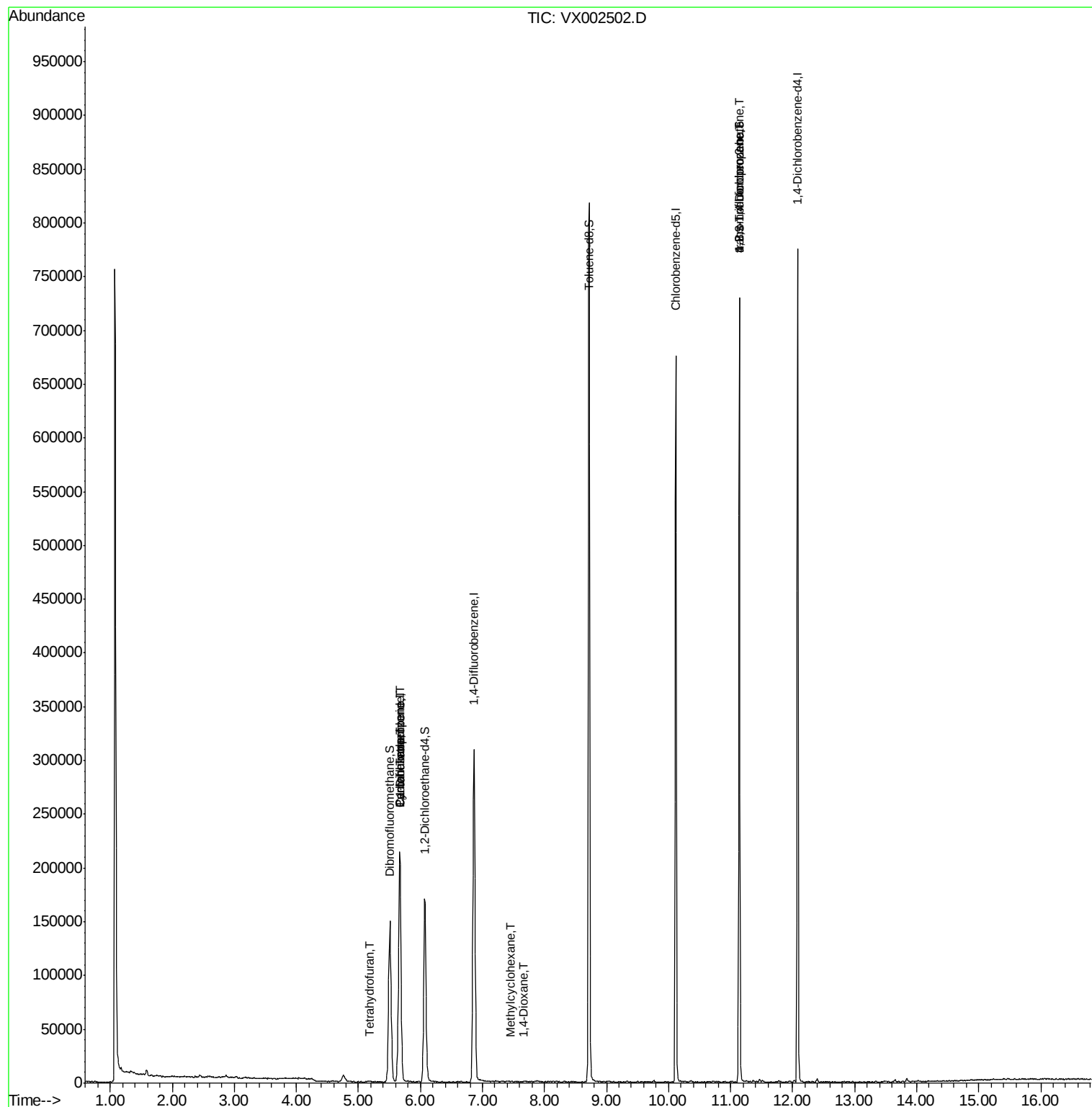
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	526	Below Cal	#	79
5) Bromomethane	1.62	94	52	Below Cal	#	3
8) Diethyl Ether	2.19	74	66	Below Cal		97
11) Tert butyl alcohol	3.03	59	1194	Below Cal	#	94
13) Acrolein	2.30	56	194	Below Cal		94
15) Acrylonitrile	3.15	53	730	Below Cal	#	95
16) Acetone	2.45	43	1881	Below Cal	#	82
18) Methyl Acetate	2.78	43	431	Below Cal	#	67
19) Methyl tert-butyl Ether	3.21	73	81	Below Cal	#	1
20) Methylene Chloride	2.86	84	754	Below Cal	#	75
22) Diisopropyl ether	3.85	45	110	Below Cal	#	82
28) Bromochloromethane	5.04	49	111	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	582	0.44	ug/l	89
31) Cyclohexane	5.67	56	4736	1.26	ug/l	# 10
36) 1,1-Dichloropropene	5.67	75	15232	4.80	ug/l	# 41
38) Carbon Tetrachloride	5.67	117	19200	5.78	ug/l	# 15
39) Methylcyclohexane	7.46	83	20	0.27	ug/l	# 16
49) 1,4-Dioxane	7.66	88	19	0.31	ug/l	# 48
76) 1,2,3-Trichloropropane	11.14	75	90050	26.11	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	90050	91.52	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: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :

MSVOA_X

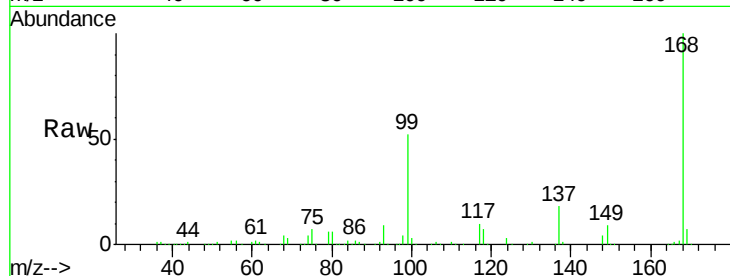
ClientSampleId :

Tot Ion:168 Resp: 207484

Ion Ratio Lower Upper

168 100

99 52.0 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

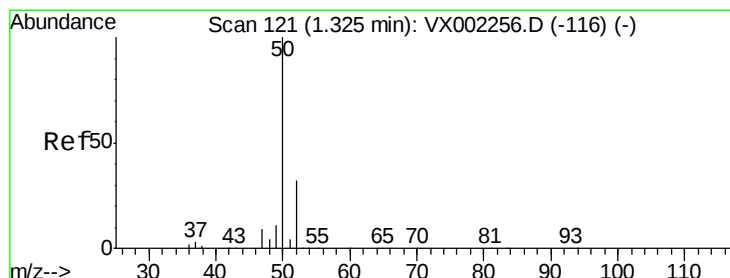
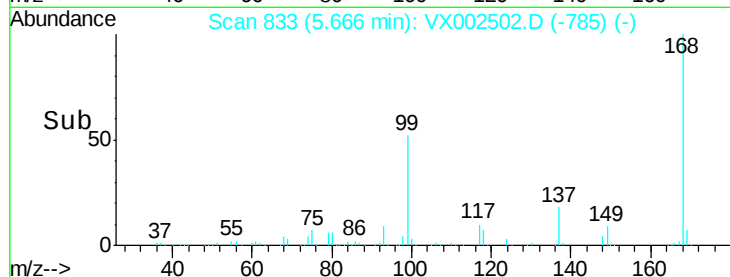
40000

20000

0

Time-->

5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002502.D

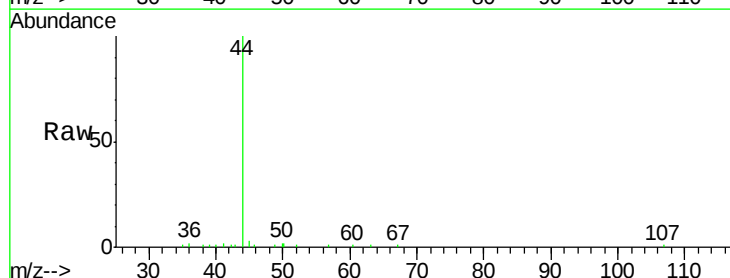
Acq: 13 Jun 2018 10:56

Tgt Ion: 50 Resp: 526

Ion Ratio Lower Upper

50 100

52 20.6 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

400

300

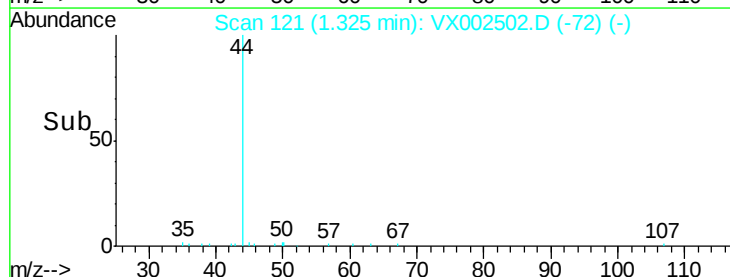
200

100

0

Time-->

1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.62 min Scan# 170

Delta R.T. -0.01 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :

MSVOA_X

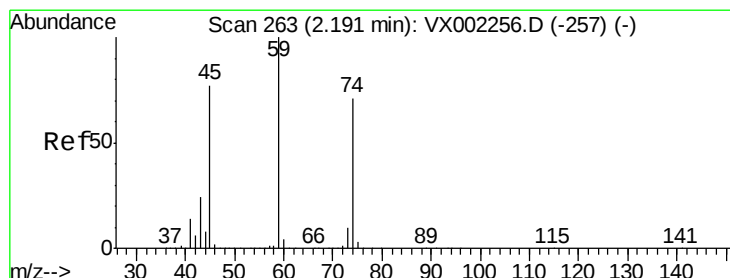
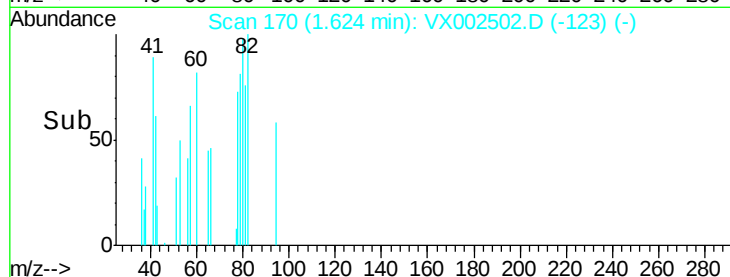
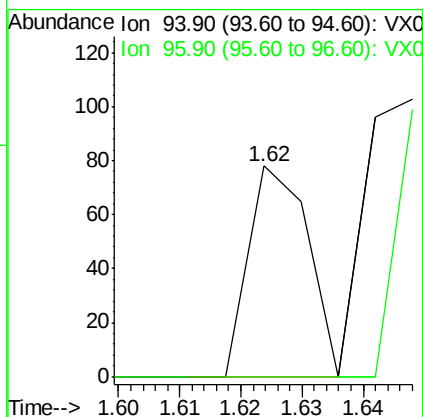
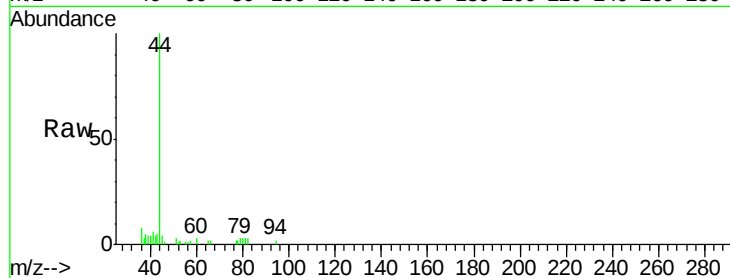
ClientSampled :

Tot Ion: 94 Resp: 52

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002502.D

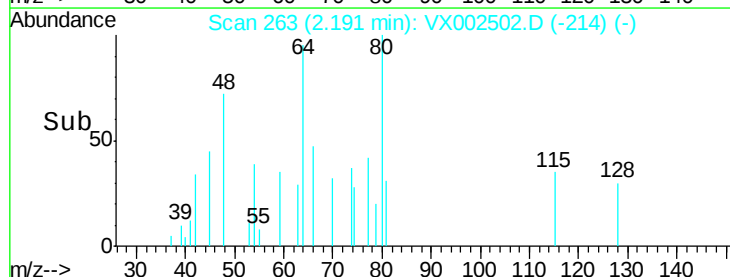
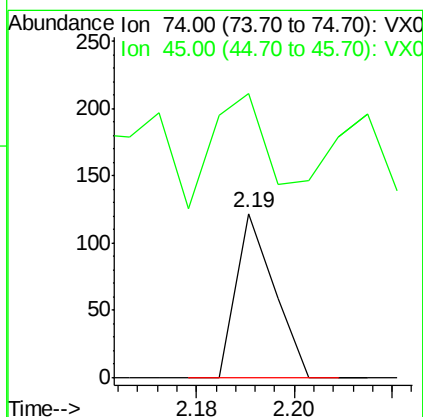
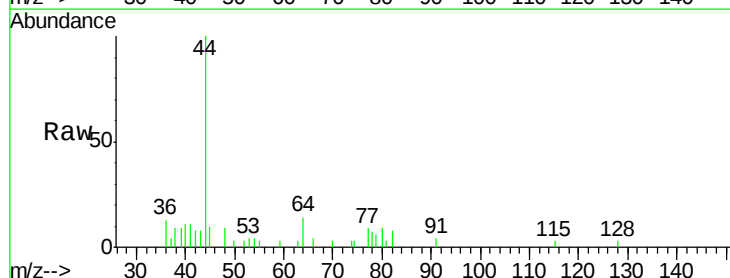
Acq: 13 Jun 2018 10:56

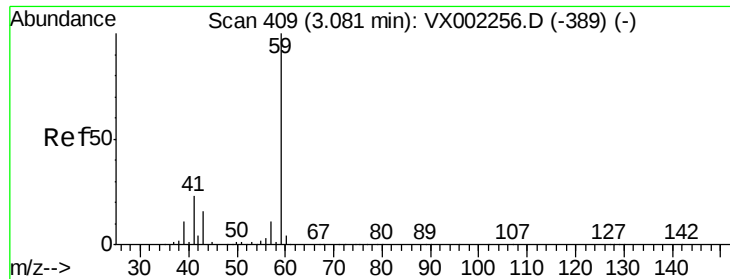
Tgt Ion: 74 Resp: 66

Ion Ratio Lower Upper

74 100

45 109.1 53.1 159.4

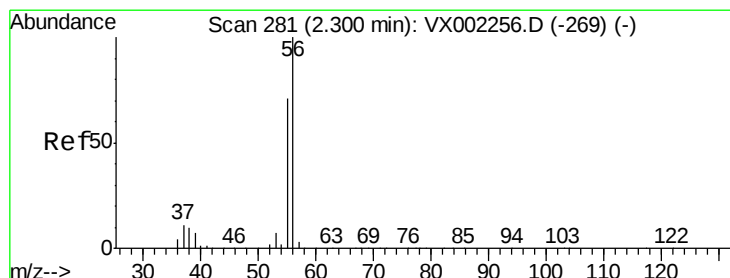
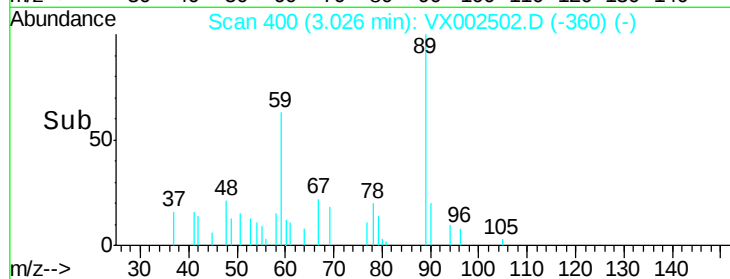
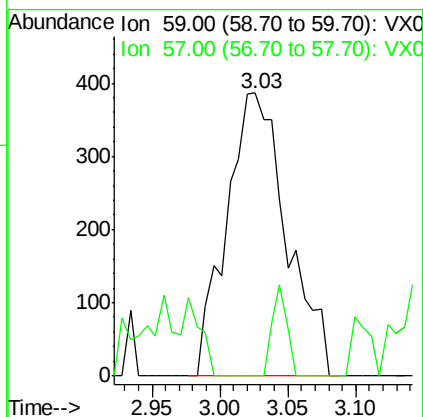
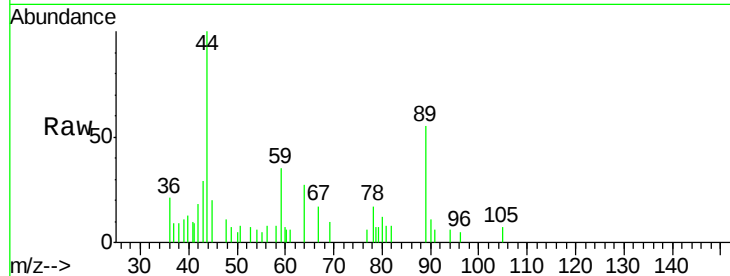




#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 400
Delta R.T. -0.05 min
Lab File: VX002502.D
Acq: 13 Jun 2018 10:56

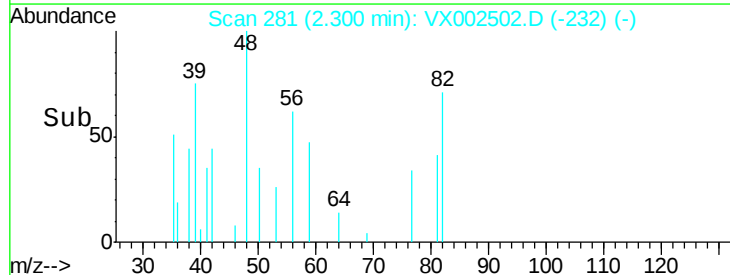
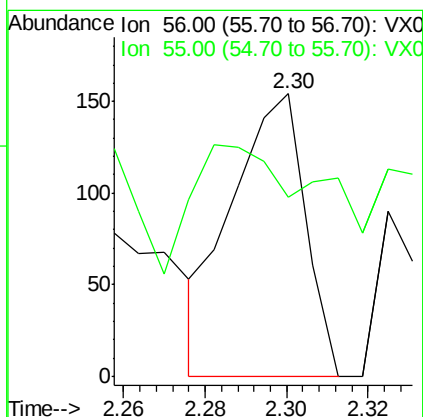
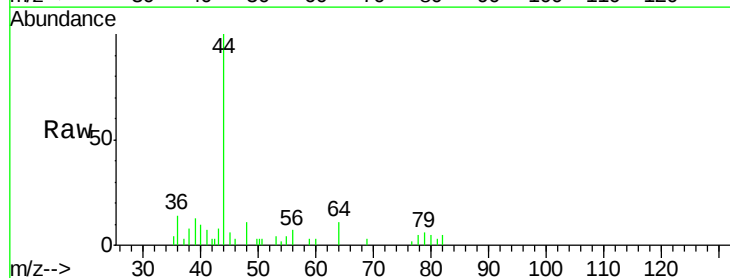
Instrument :
MSVOA_X
ClientSampled :

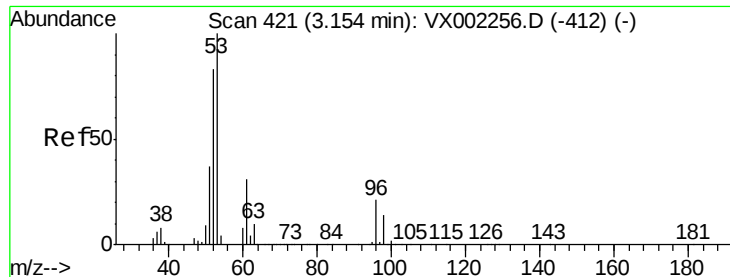
Tot Ion: 59 Resp: 1194
Ion Ratio Lower Upper
59 100
57 8.0 8.2 12.2#



#13
Acrolein
Concen: Below Cal
RT: 2.30 min Scan# 281
Delta R.T. 0.00 min
Lab File: VX002502.D
Acq: 13 Jun 2018 10:56

Tgt Ion: 56 Resp: 194
Ion Ratio Lower Upper
56 100
55 76.3 57.0 85.4





#15

Acrylonitrile

Concen: Below Cal

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

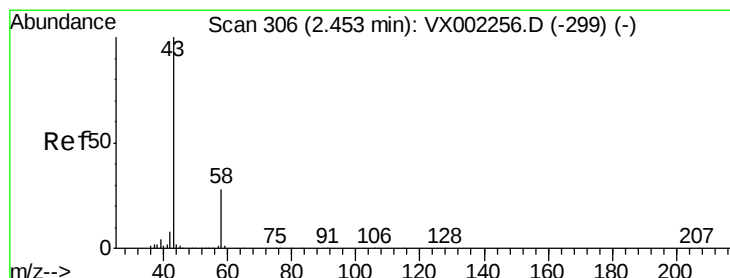
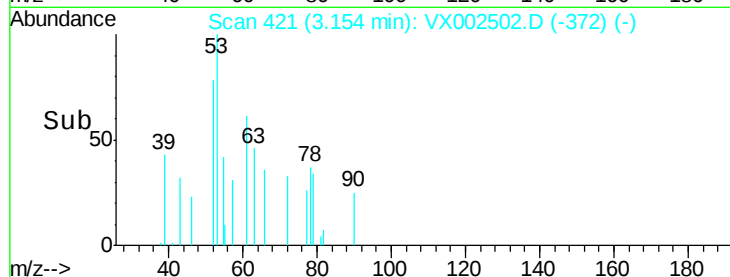
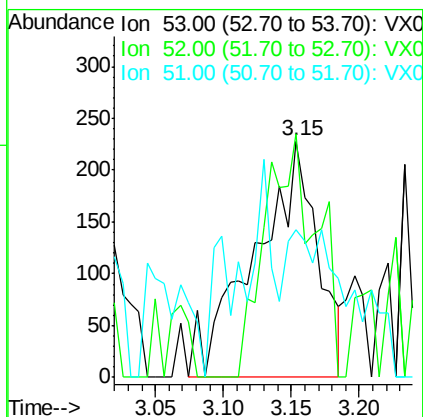
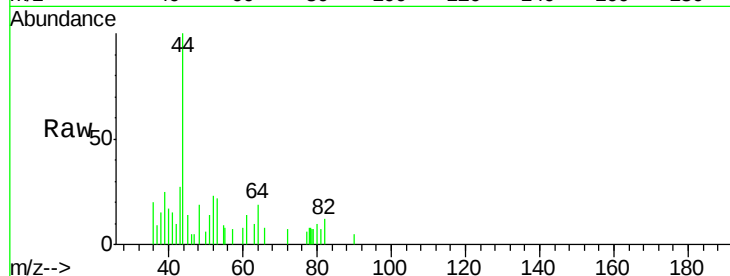
Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 53 Resp: 730

Ion	Ratio	Lower	Upper
53	100		
52	84.4	66.7	100.1
51	29.9	29.9	44.9#



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

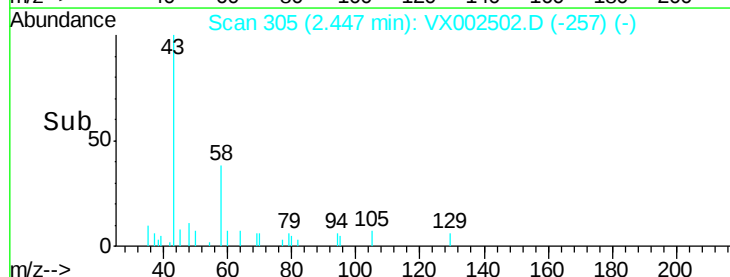
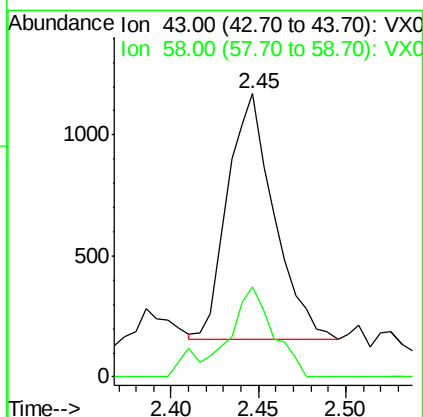
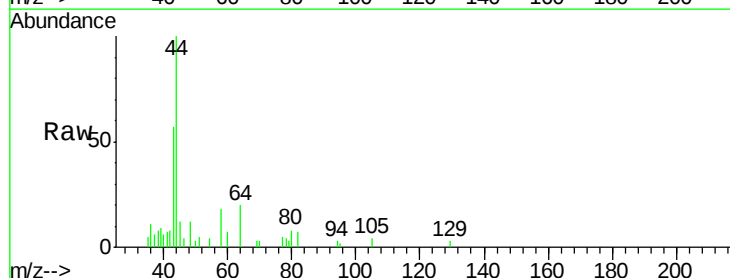
Delta R.T. -0.01 min

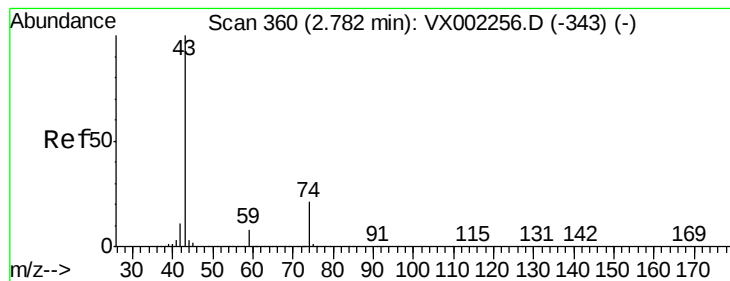
Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Tgt Ion: 43 Resp: 1881

Ion	Ratio	Lower	Upper
43	100		
58	36.8	22.1	33.1#





#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :

MSVOA_X

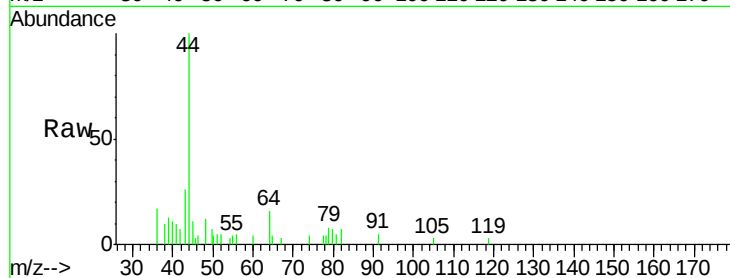
ClientSampled :

Tot Ion: 43 Resp: 431

Ion Ratio Lower Upper

43 100

74 5.3 16.7 25.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.78

400

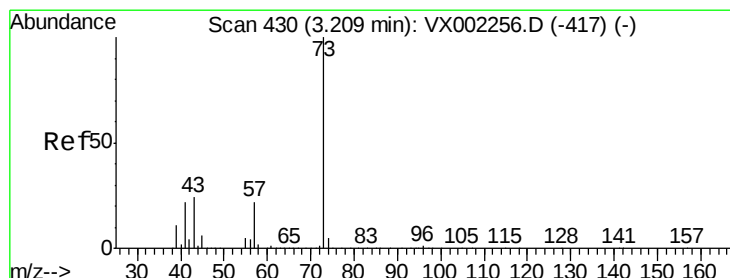
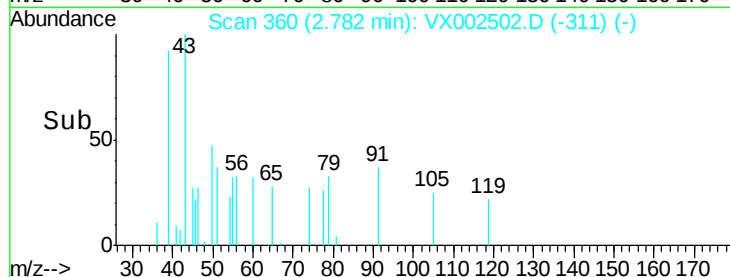
300

200

100

0

Time-->



#19

Methyl tert-butyl Ether

Concen: Below Cal

RT: 3.21 min Scan# 430

Delta R.T. 0.00 min

Lab File: VX002502.D

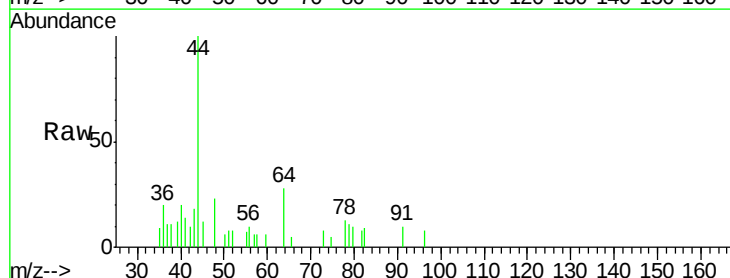
Acq: 13 Jun 2018 10:56

Tgt Ion: 73 Resp: 81

Ion Ratio Lower Upper

73 100

57 154.9 17.7 26.5#



Abundance Ion 73.00 (72.70 to 73.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

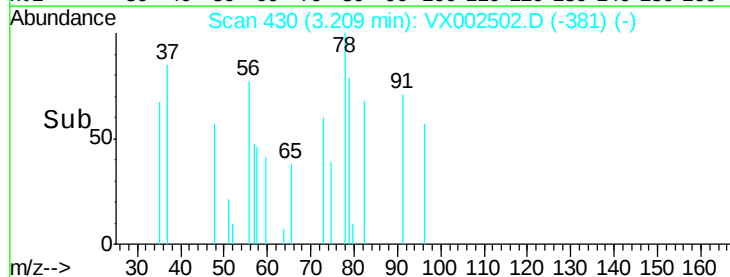
3.21

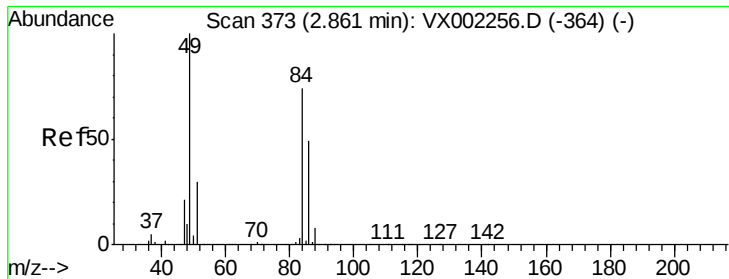
100

50

0

Time-->





#20

Methvlene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

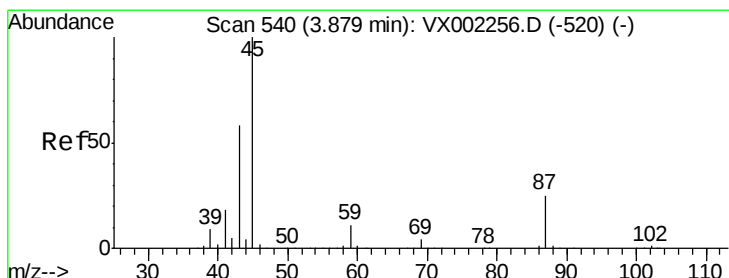
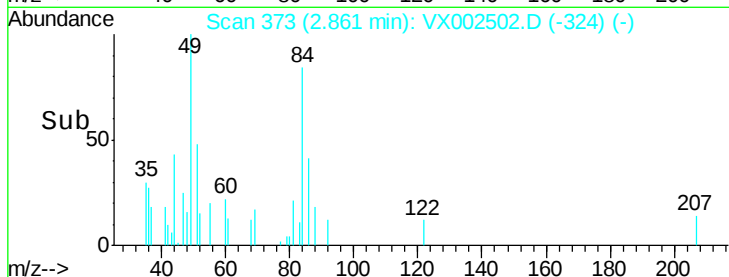
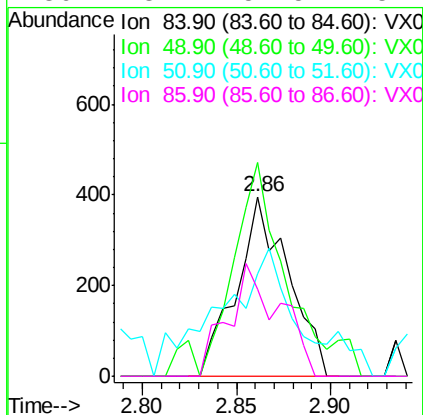
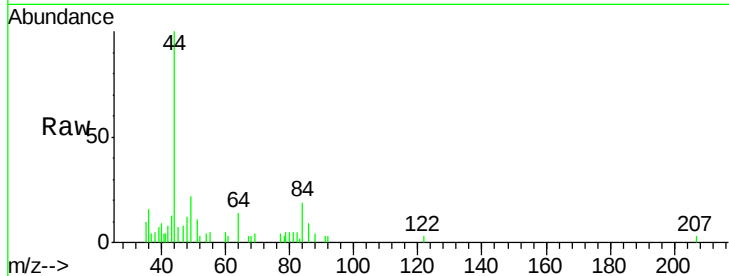
Delta R.T. 0.00 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:	84	Resp:	754
Ion	Ratio	Lower	Upper
84	100		
49	98.7	107.8	161.6#
51	31.8	32.8	49.2#
86	48.7	52.5	78.7#



#22

Diisopropyl ether

Concen: Below Cal

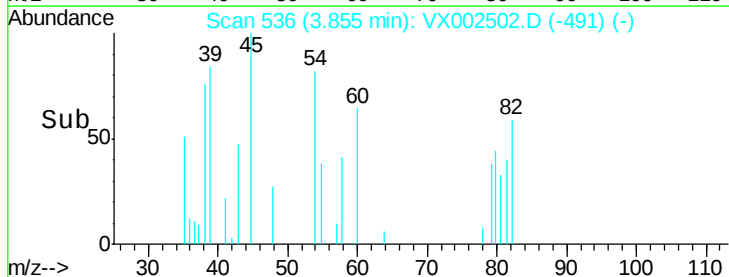
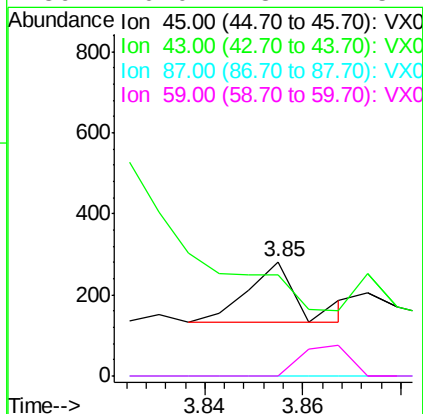
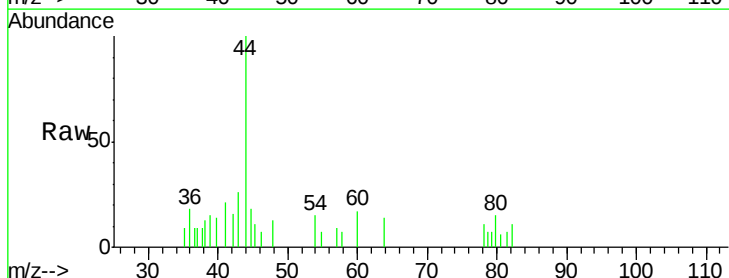
RT: 3.85 min Scan# 536

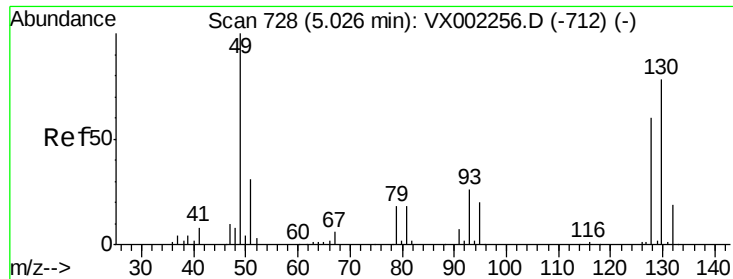
Delta R.T. -0.02 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Tgt Ion:	45	Resp:	110
Ion	Ratio	Lower	Upper
45	100		
43	60.4	46.8	70.2
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.04 min Scan# 730

Delta R.T. 0.01 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :

MSVOA_X

ClientSampled :

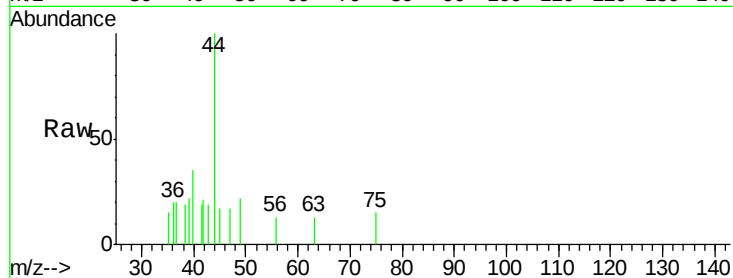
Tot Ion: 49 Resp: 111

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

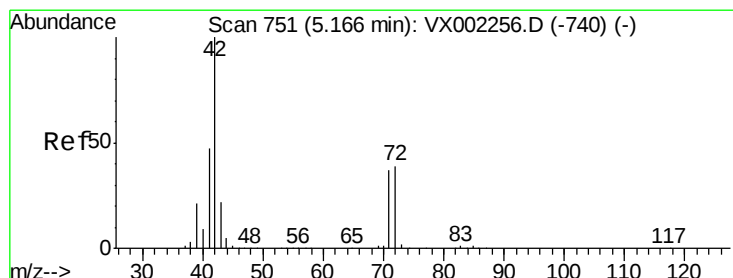
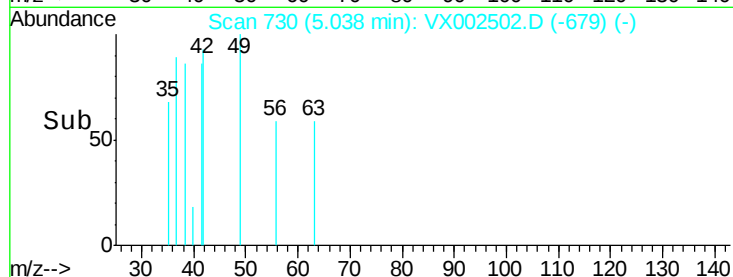
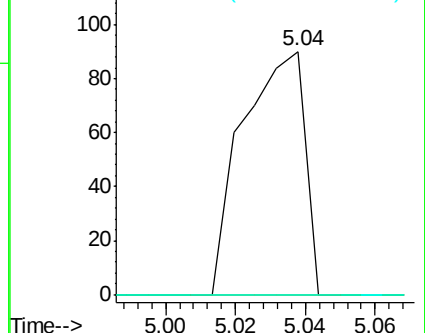
130 0.0 61.2 91.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#29

Tetrahydrofuran

Concen: 0.44 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

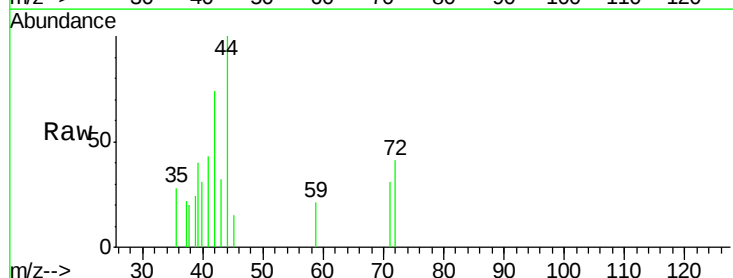
Tgt Ion: 42 Resp: 582

Ion Ratio Lower Upper

42 100

72 46.6 32.0 48.0

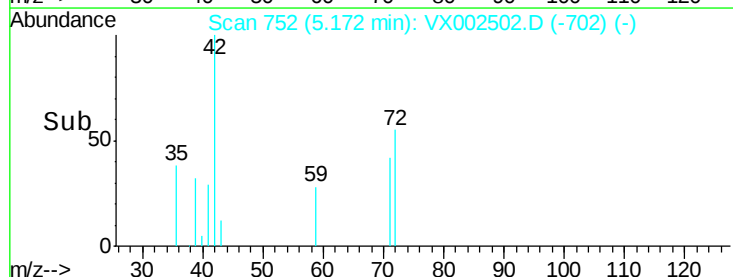
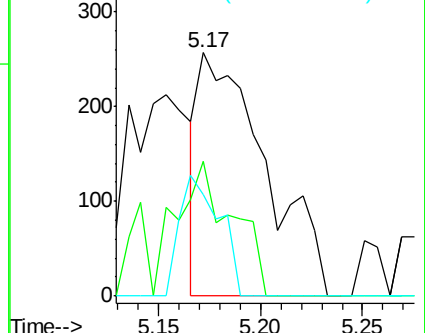
71 30.2 30.1 45.1

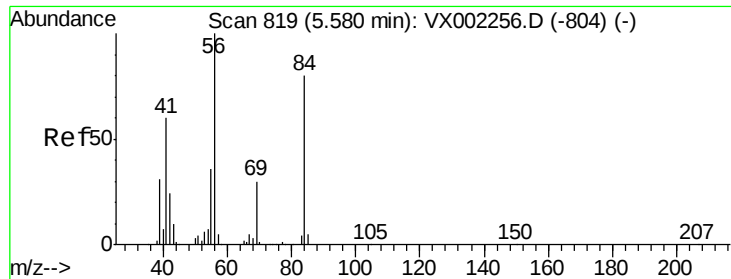


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

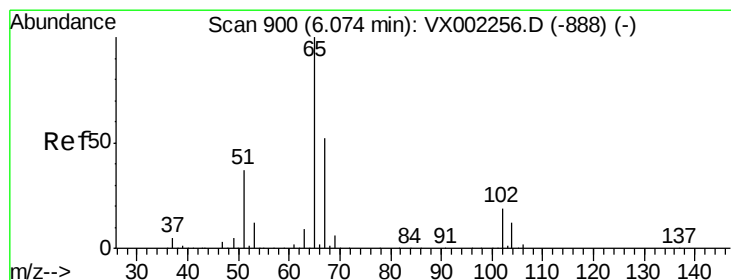
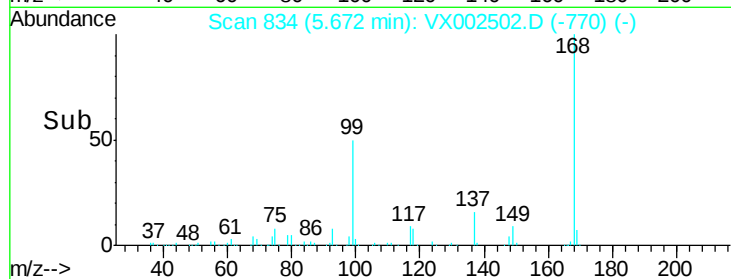
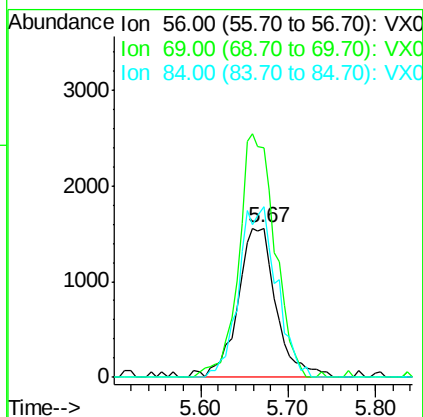
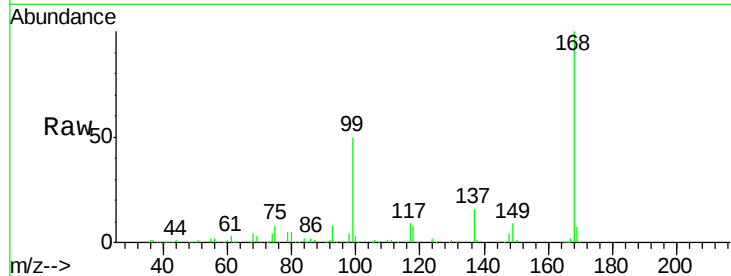




#31
Cyclohexane
Concen: 1.26 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002502.D
Acq: 13 Jun 2018 10:56

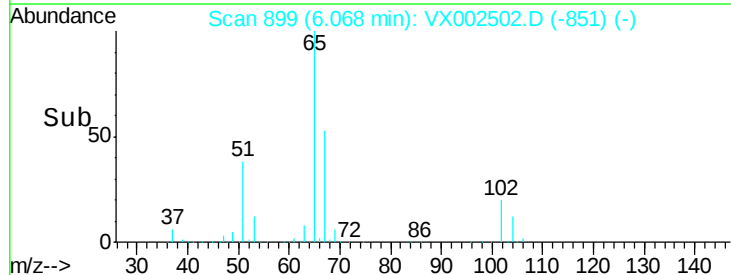
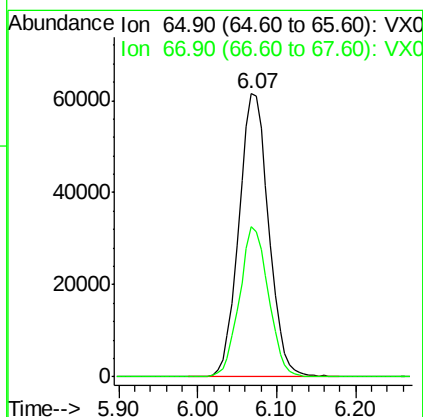
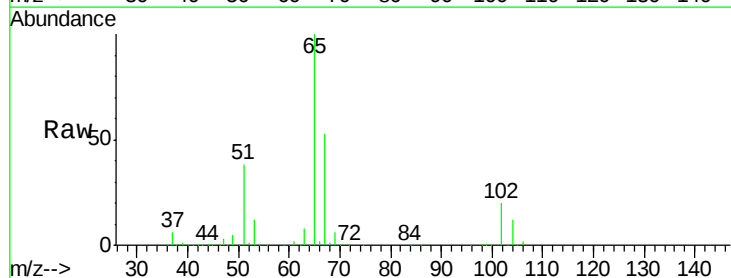
Instrument :
MSVOA_X
ClientSampleId :

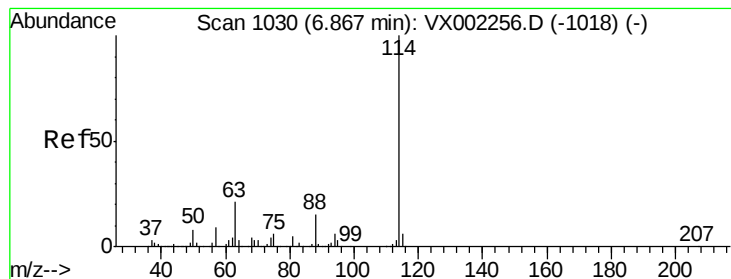
Tot Ion: 56 Resp: 4736
Ion Ratio Lower Upper
56 100
69 153.7 23.7 35.5#
84 114.2 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 54.93 ug/l
RT: 6.07 min Scan# 899
Delta R.T. -0.01 min
Lab File: VX002502.D
Acq: 13 Jun 2018 10:56

Tgt Ion: 65 Resp: 161953
Ion Ratio Lower Upper
65 100
67 51.6 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: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

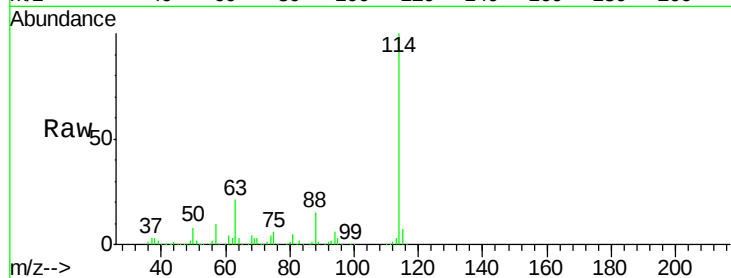
Tot Ion:114 Resp: 301969

Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.4

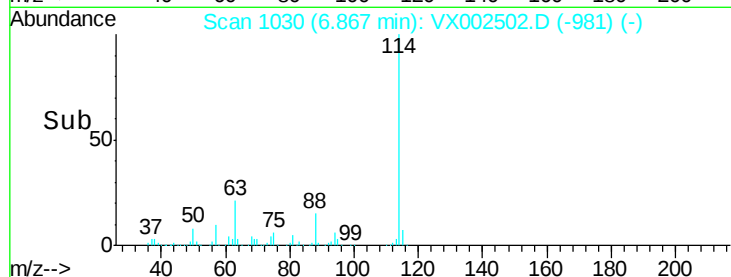
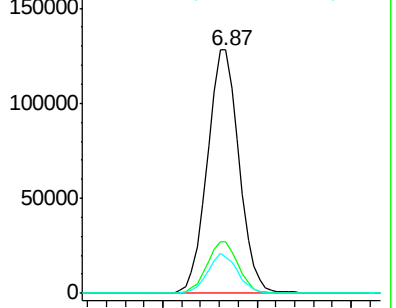
88 15.0 0.0 30.0



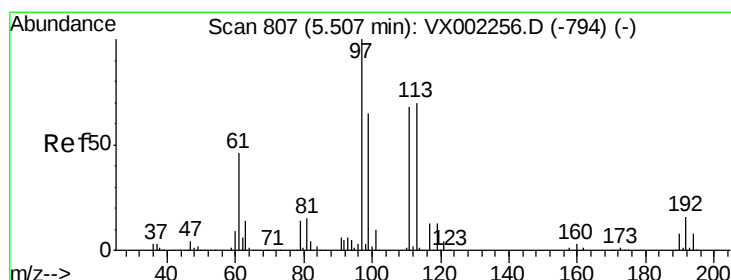
Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



Time-->



#35

Dibromofluoromethane

Concen: 50.98 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

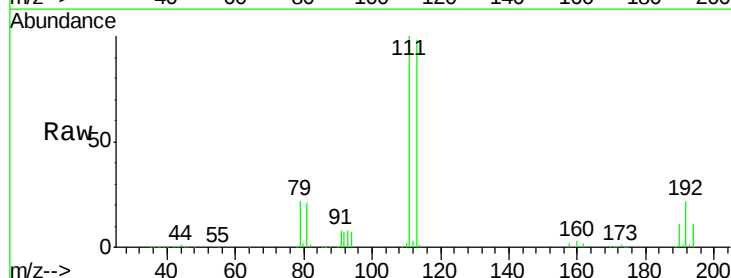
Tgt Ion:113 Resp: 121068

Ion Ratio Lower Upper

113 100

111 102.3 81.4 122.0

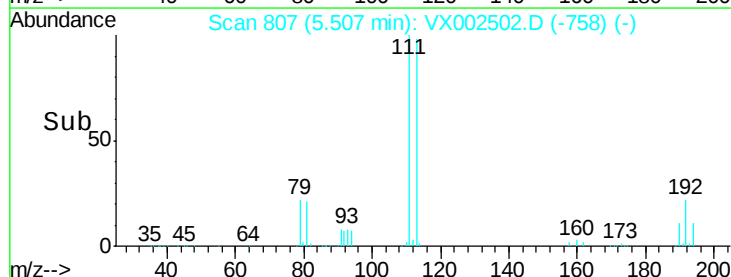
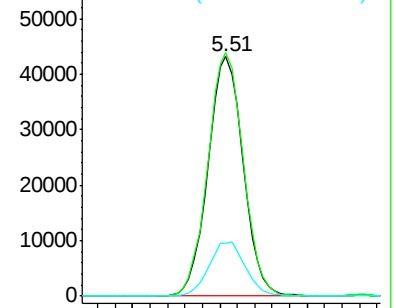
192 23.3 19.1 28.7



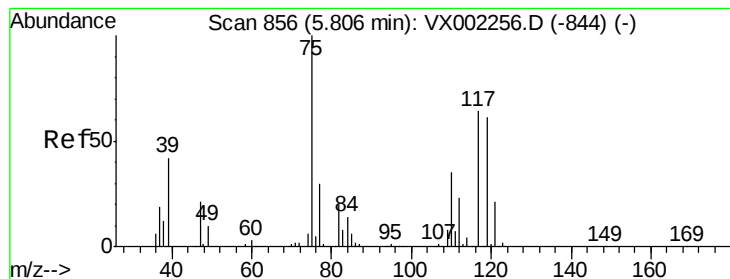
Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



Time-->



#36

1,1-Dichloropropene

Concen: 4.80 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.13 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :

MSVOA_X

ClientSampleId :

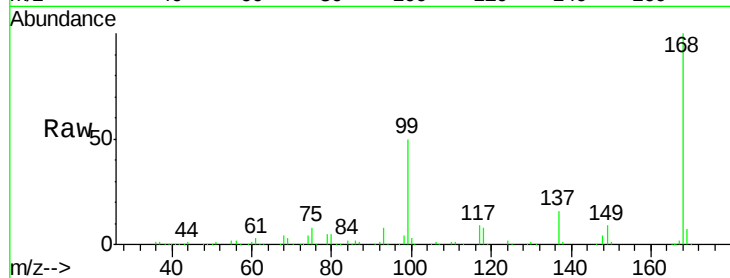
Tot Ion: 75 Resp: 15232

Ion Ratio Lower Upper

75 100

110 0.0 18.1 54.4#

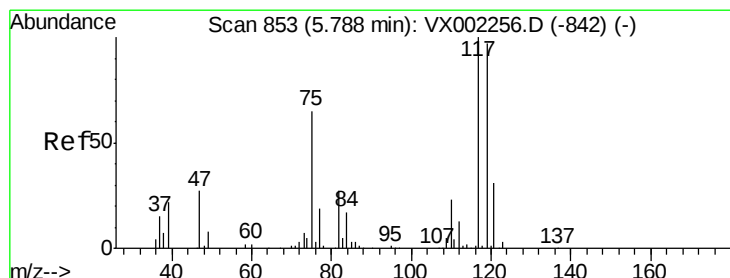
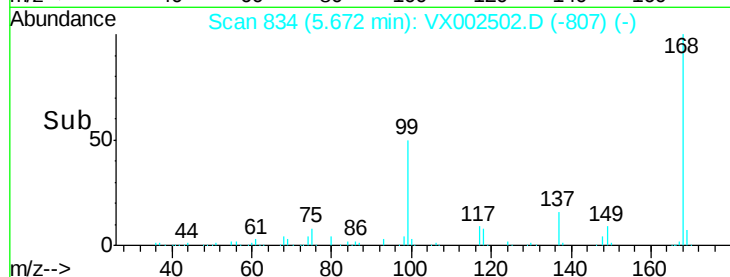
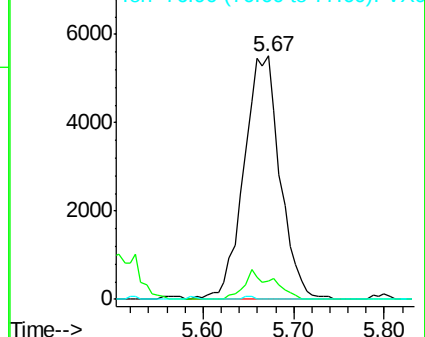
77 0.0 24.3 36.5#



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: 5.78 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

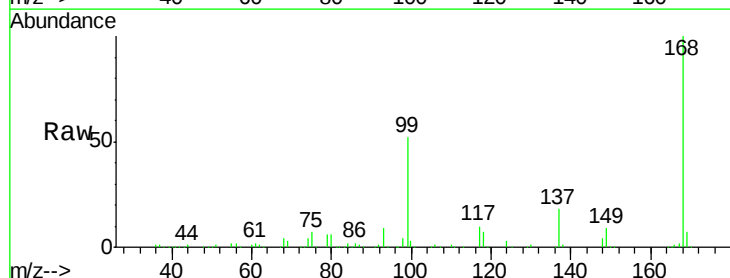
Tgt Ion:117 Resp: 19200

Ion Ratio Lower Upper

117 100

119 4.1 77.4 116.0#

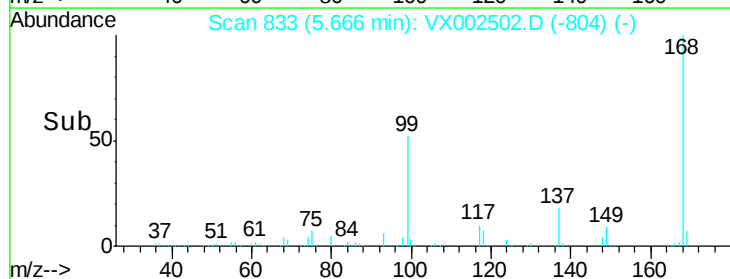
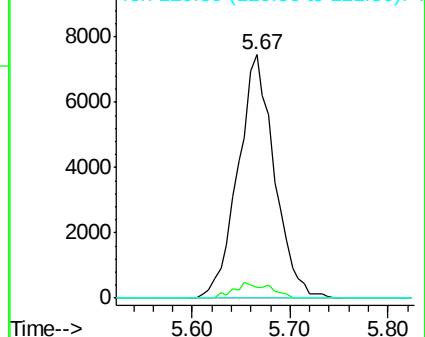
121 0.0 24.4 36.6#

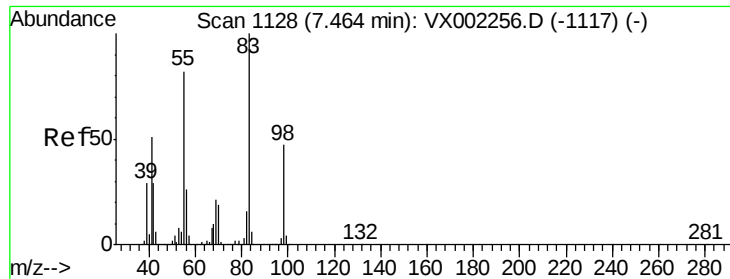


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

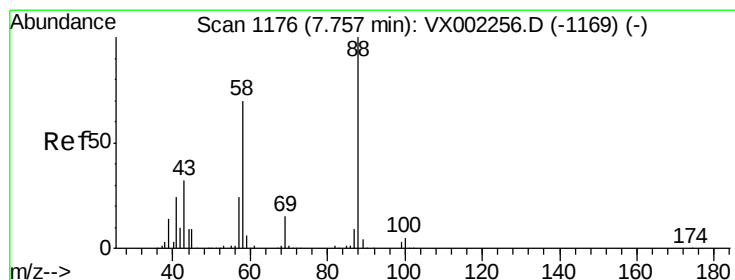
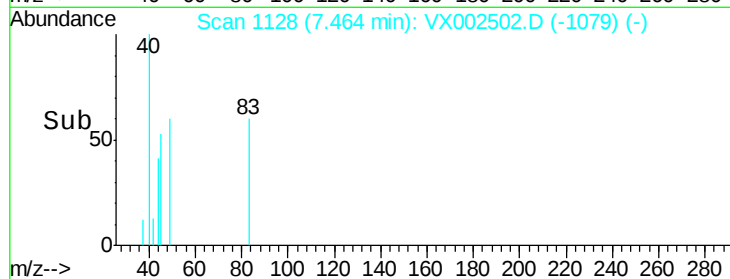
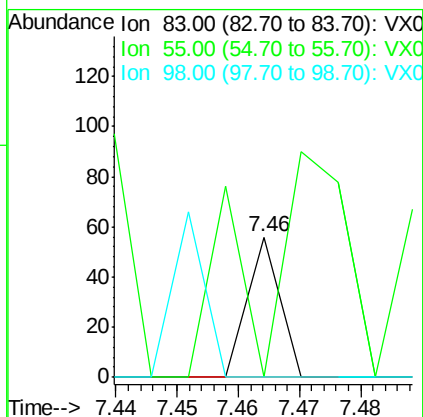
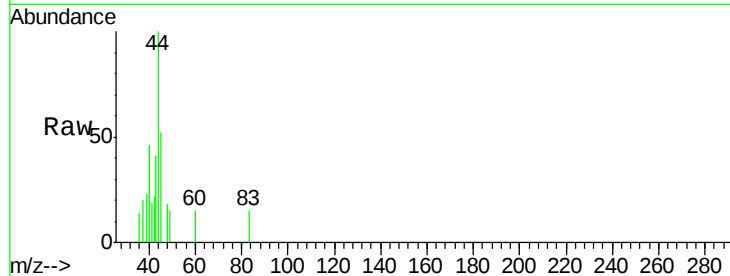




#39
Methvlcvclohexane
Concen: 0.27 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX002502.D
Acq: 13 Jun 2018 10:56

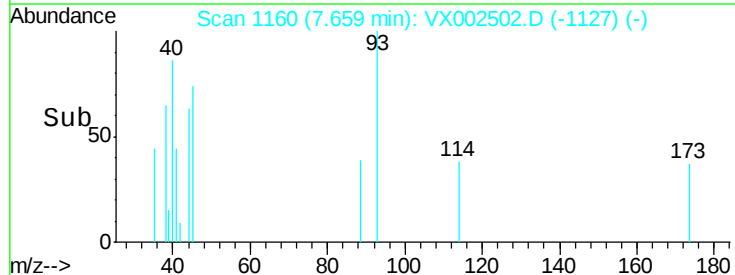
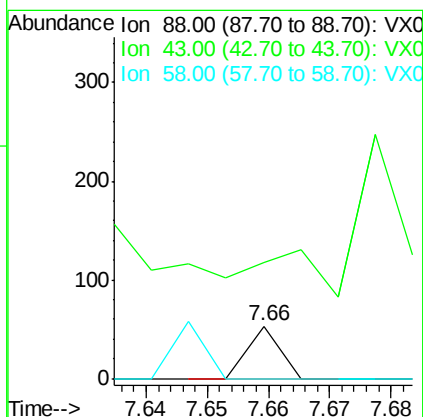
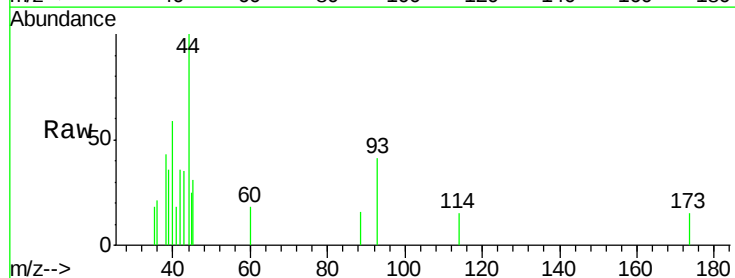
Instrument :
MSVOA_X
ClientSampled :

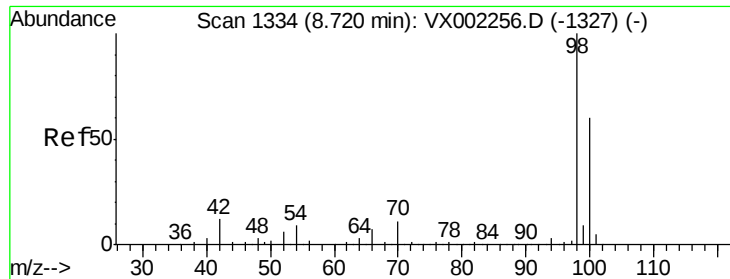
Tot Ion: 83 Resp: 20
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.0 37.4 56.0#



#49
1,4-Dioxane
Concen: 0.31 ug/l
RT: 7.66 min Scan# 1160
Delta R.T. -0.10 min
Lab File: VX002502.D
Acq: 13 Jun 2018 10:56

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 29.8 44.6#
58 110.5 57.1 85.7#





#50

Toluene-d8

Concen: 52.52 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

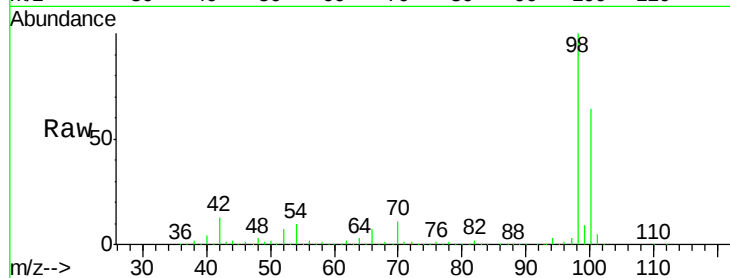
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 98 Resp: 478054

Ion Ratio Lower Upper

98 100

100 63.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

300000

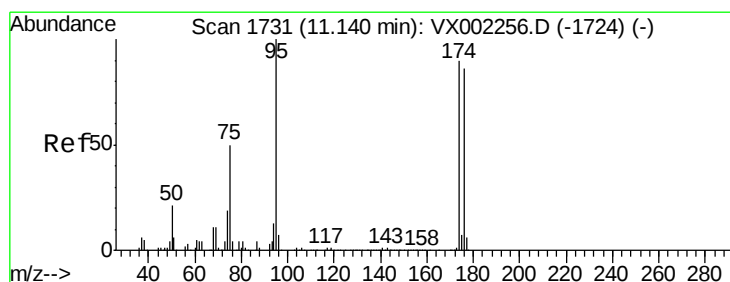
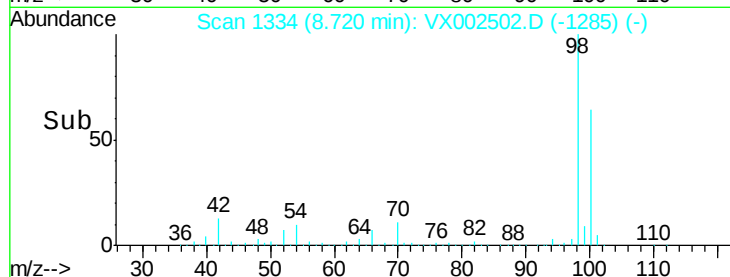
200000

100000

0

8.60 8.65 8.70 8.75 8.80

Time-->



#62

4-Bromofluorobenzene

Concen: 46.78 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

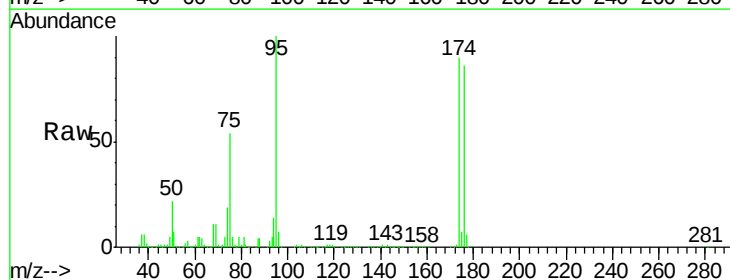
Tgt Ion: 95 Resp: 164199

Ion Ratio Lower Upper

95 100

174 93.3 0.0 187.4

176 91.5 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

150000

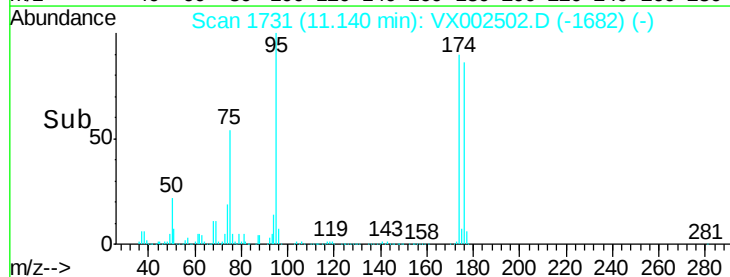
100000

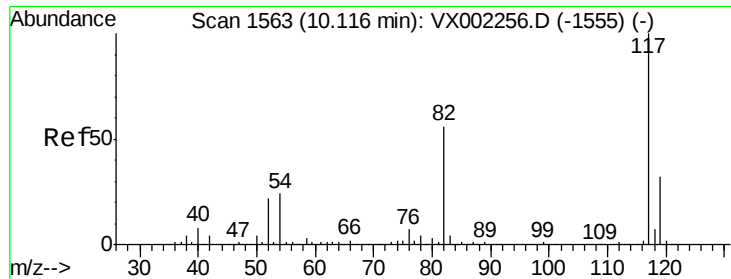
50000

0

11.10 11.14 11.18

Time-->





#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :

MSVOA_X

ClientSampled :

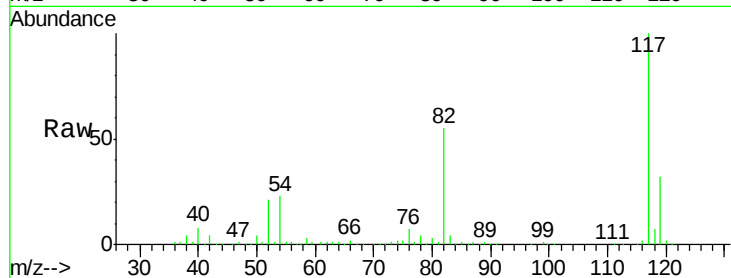
Tot Ion:117 Resp: 283277

Ion Ratio Lower Upper

117 100

82 54.9 45.0 67.4

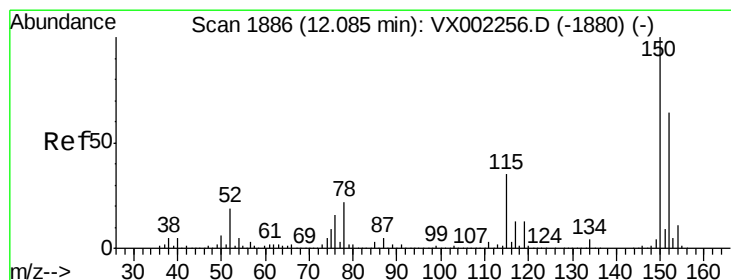
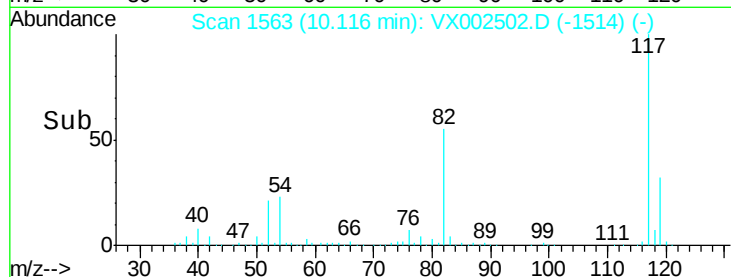
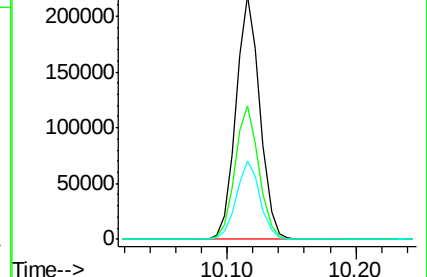
119 32.1 25.8 38.6



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: 12.09 min Scan# 1886

Delta R.T. 0.00 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

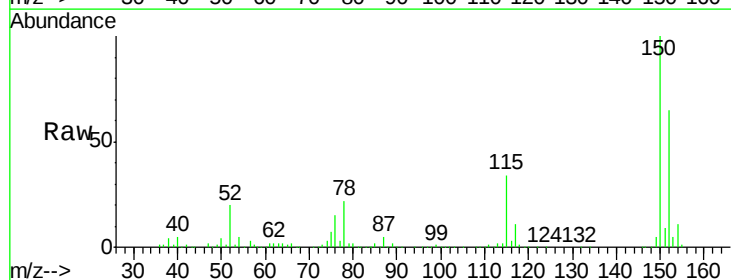
Tgt Ion:152 Resp: 157177

Ion Ratio Lower Upper

152 100

115 55.5 40.1 120.2

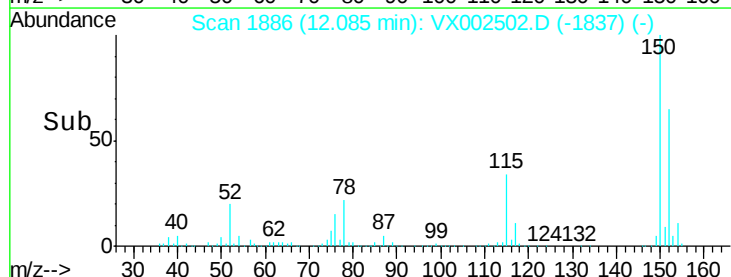
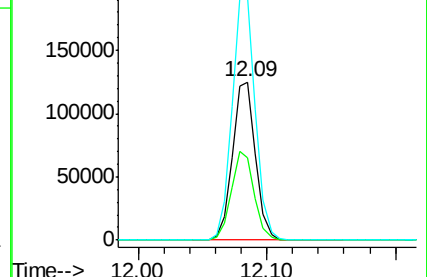
150 155.9 0.0 347.2

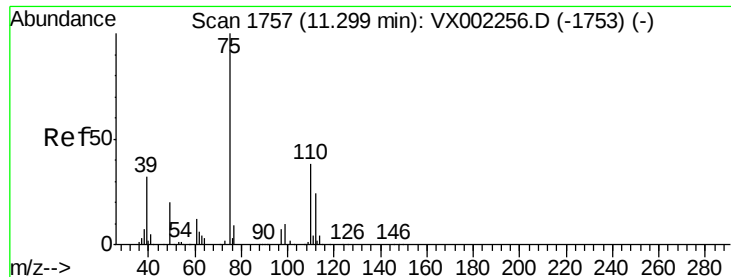


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.11 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Instrument :

MSVOA_X

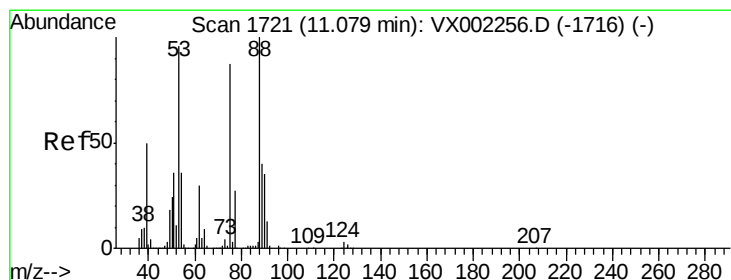
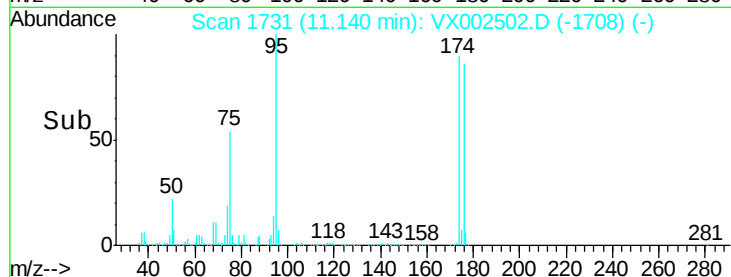
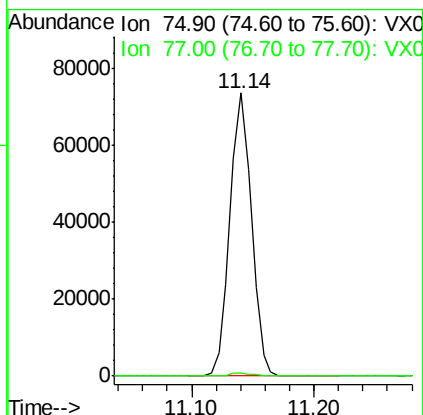
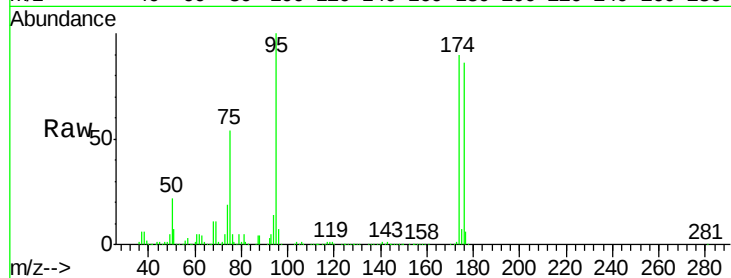
ClientSampleId :

Tot Ion: 75 Resp: 90050

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 91.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002502.D

Acq: 13 Jun 2018 10:56

Tgt Ion: 75 Resp: 90050

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

89 0.0 38.2 57.2#

