

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060518\
 Data File : VX002297.D
 Acq On : 05 Jun 2018 11:10
 Operator : JC/MD
 Sample : VX0605WBL01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 06 04:28:01 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	267713	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	382840	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	351382	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	194615	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	201608	52.86	ug/l	0.00
Spiked Amount			Recovery	=	105.72%	
35) Dibromofluoromethane	5.51	113	149282	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
50) Toluene-d8	8.72	98	606425	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
62) 4-Bromofluorobenzene	11.14	95	207677	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	

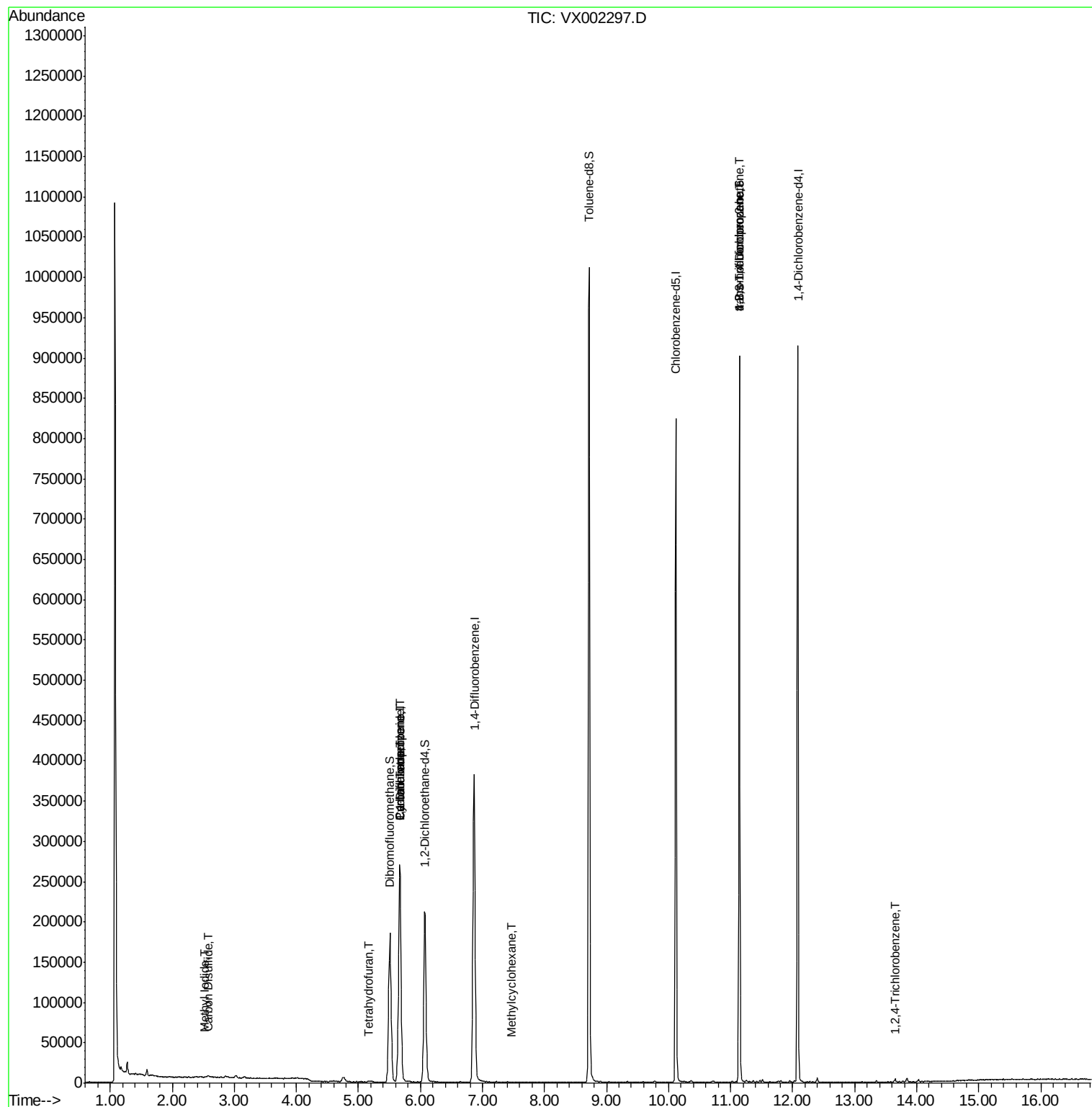
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	665	Below Cal		99
5) Bromomethane	1.67	94	1008	Below Cal	#	73
8) Diethyl Ether	2.19	74	46	Below Cal	#	3
10) Methyl Iodide	2.52	142	1168	0.29 ug/l	#	92
11) Tert butyl alcohol	3.03	59	1658	Below Cal	#	85
13) Acrolein	2.30	56	601	Below Cal		84
15) Acrylonitrile	3.14	53	601	Below Cal	#	30
16) Acetone	2.45	43	1085	Below Cal	#	76
17) Carbon Disulfide	2.57	76	2101	0.28 ug/l	#	89
18) Methyl Acetate	2.79	43	142	Below Cal	#	50
19) Methyl tert-butyl Ether	3.21	73	127	Below Cal	#	54
20) Methylene Chloride	2.86	84	811	Below Cal	#	61
22) Diisopropyl ether	3.87	45	120	Below Cal	#	47
28) Bromochloromethane	5.03	49	154	Below Cal	#	46
29) Tetrahydrofuran	5.17	42	1250	0.74 ug/l	#	61
31) Cyclohexane	5.67	56	5544	1.15 ug/l	#	1
36) 1,1-Dichloropropene	5.66	75	19200	4.77 ug/l	#	50
38) Carbon Tetrachloride	5.67	117	24334	5.78 ug/l	#	14
39) Methylcyclohexane	7.46	83	92	0.28 ug/l	#	56
76) 1,2,3-Trichloropropane	11.14	75	111901	26.20 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.14	75	111901	91.85 ug/l	#	6
93) 1,2,4-Trichlorobenzene	13.65	180	1170	0.24 ug/l		94

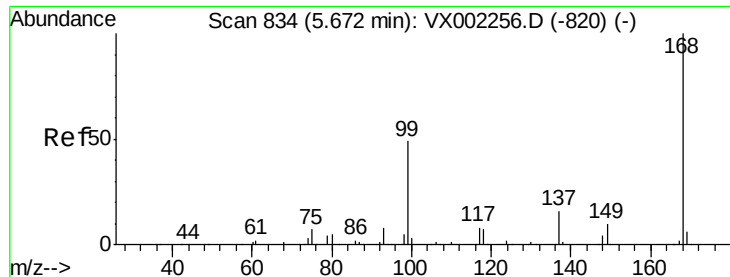
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Instrument :

MSVOA_X

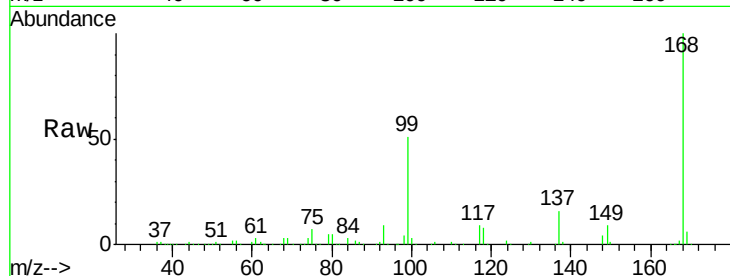
ClientSampled :

Tot Ion:168 Resp: 267713

Ion Ratio Lower Upper

168 100

99 50.9 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

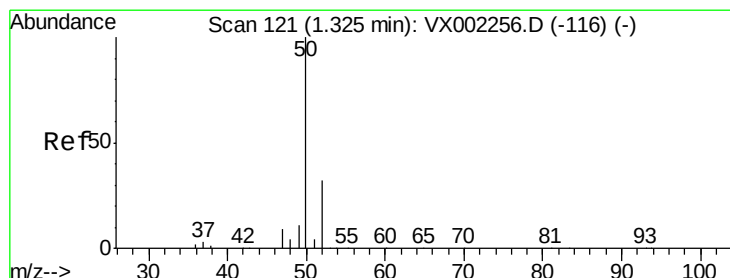
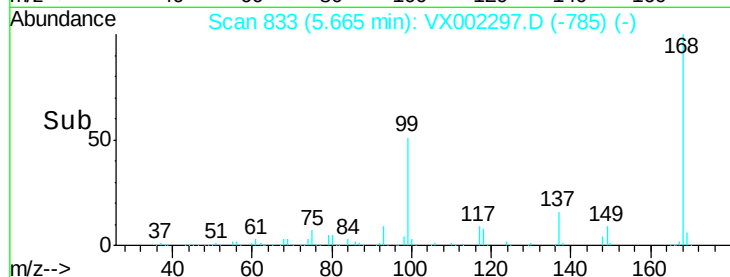
60000

40000

20000

0

Time--> 5.50 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: VX002297.D

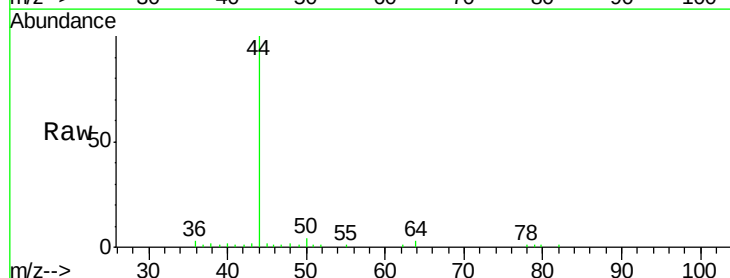
Acq: 05 Jun 2018 11:10

Tgt Ion: 50 Resp: 665

Ion Ratio Lower Upper

50 100

52 32.6 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

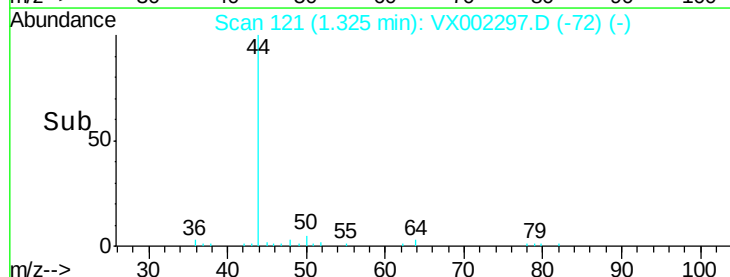
300

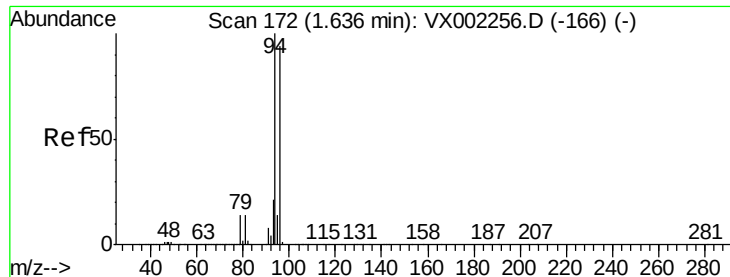
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Instrument :

MSVOA_X

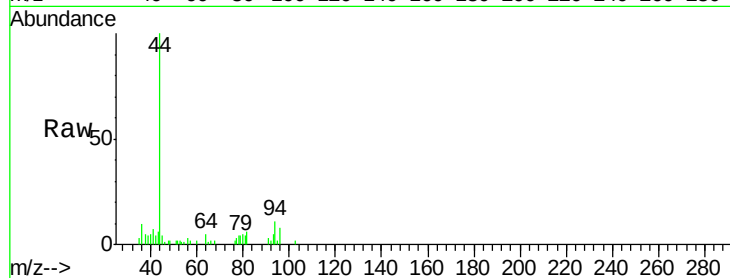
ClientSampled :

Tot Ion: 94 Resp: 1008

Ion Ratio Lower Upper

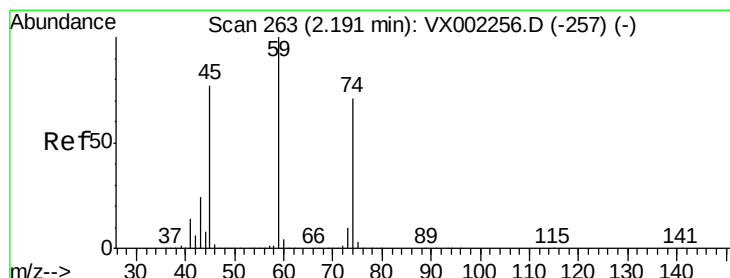
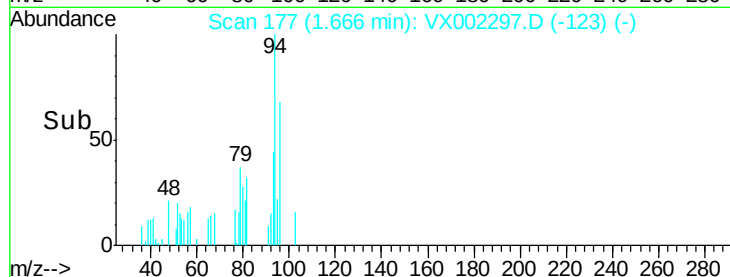
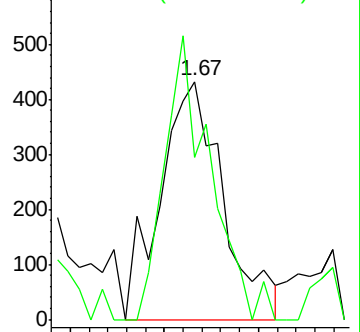
94 100

96 67.9 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: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX002297.D

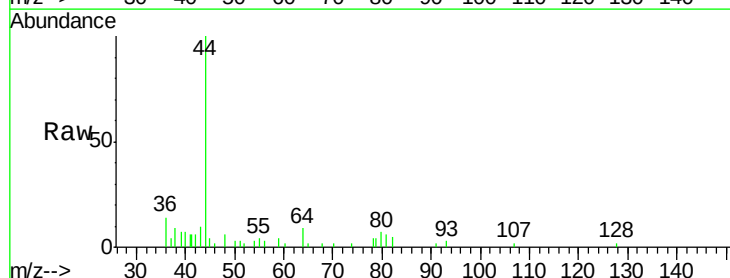
Acq: 05 Jun 2018 11:10

Tgt Ion: 74 Resp: 46

Ion Ratio Lower Upper

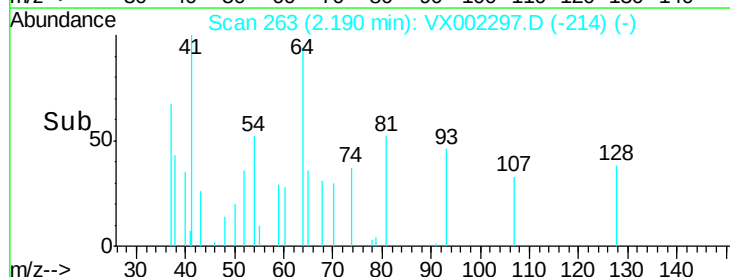
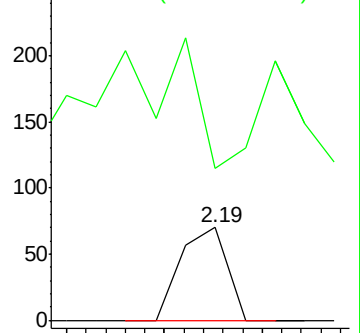
74 100

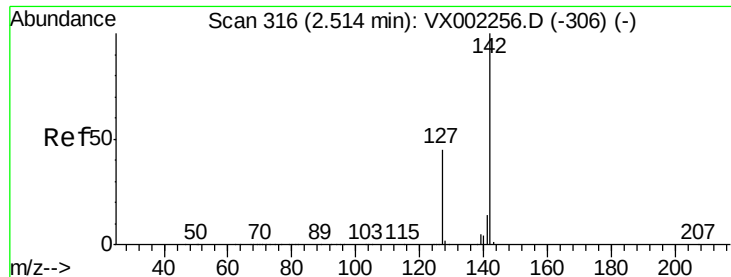
45 206.5 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

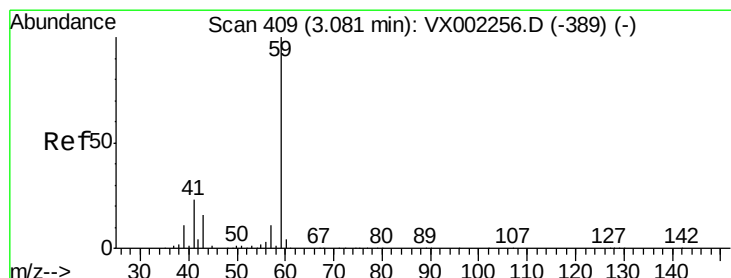
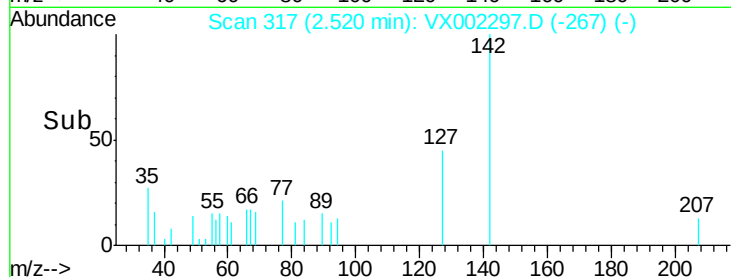
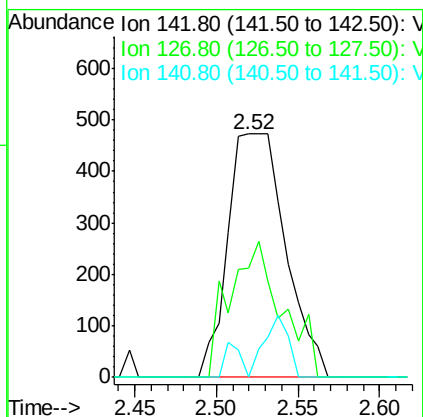
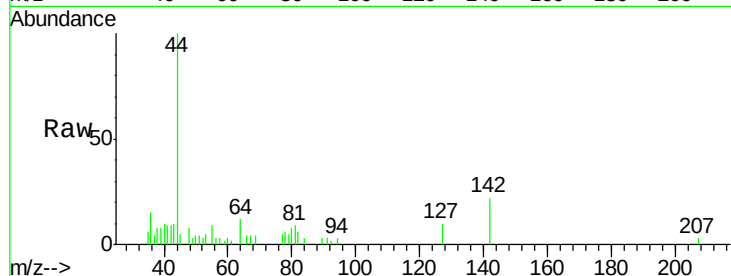




#10
Methvl Iodide
Concen: 0.29 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

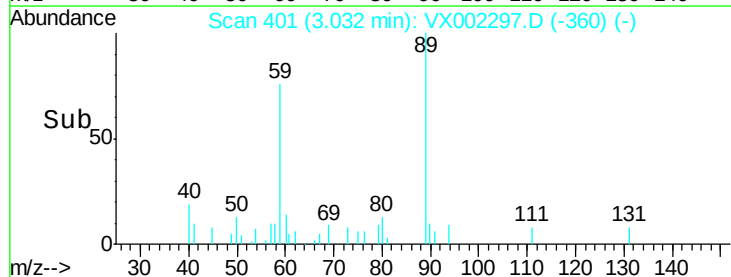
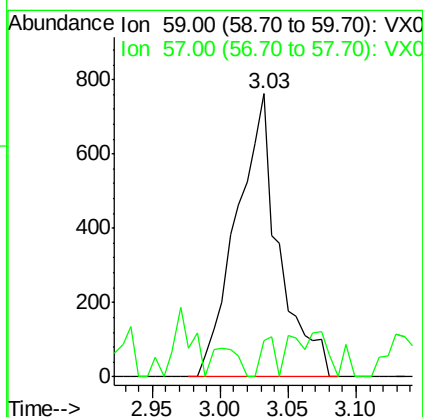
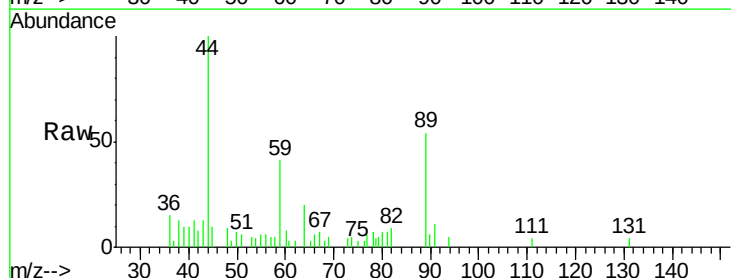
Instrument :
MSVOA_X
ClientSampleId :

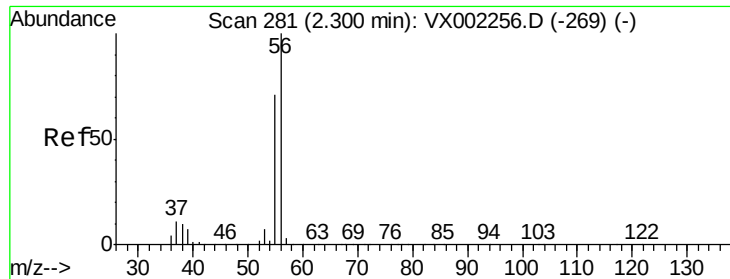
Tot Ion:142 Resp: 1168
Ion Ratio Lower Upper
142 100
127 51.0 36.6 55.0
141 10.5 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.03 min Scan# 401
Delta R.T. -0.05 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

Tgt Ion: 59 Resp: 1658
Ion Ratio Lower Upper
59 100
57 4.5 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

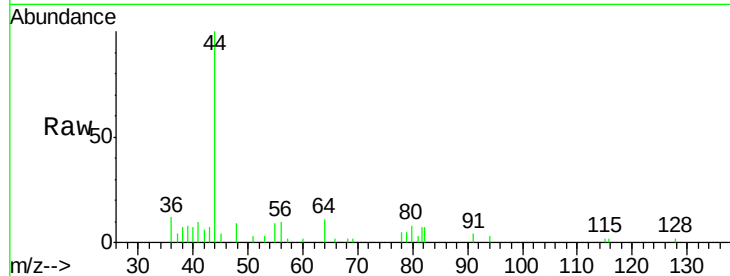
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 601

Ion Ratio Lower Upper

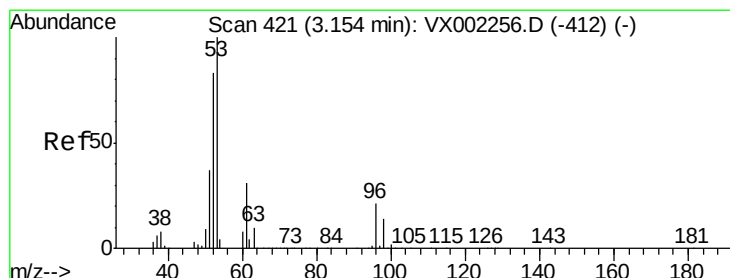
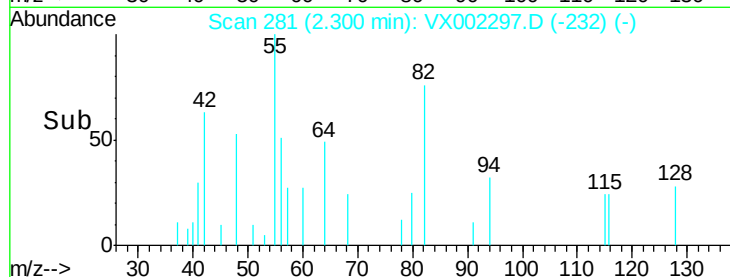
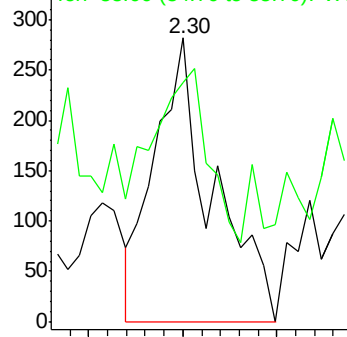
56 100

55 57.9 57.0 85.4



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#15

Acrylonitrile

Concen: Below Cal

RT: 3.14 min Scan# 419

Delta R.T. -0.01 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

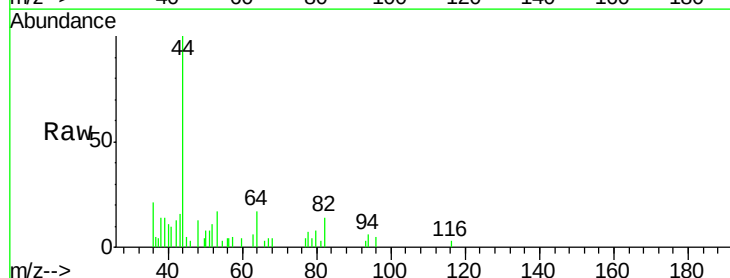
Tgt Ion: 53 Resp: 601

Ion Ratio Lower Upper

53 100

52 0.0 66.7 100.1#

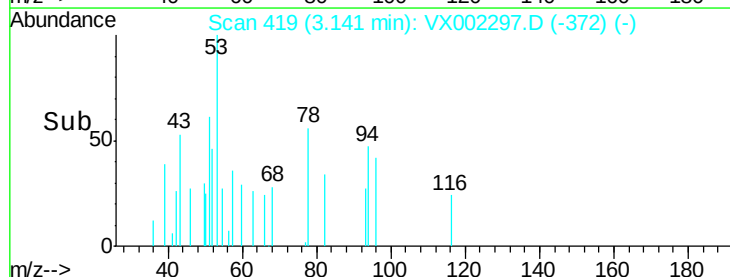
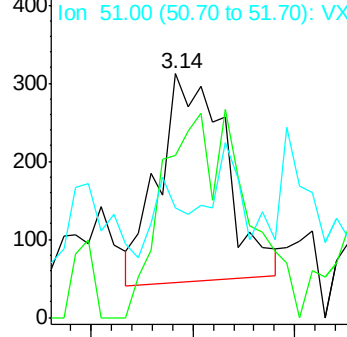
51 25.6 29.9 44.9#

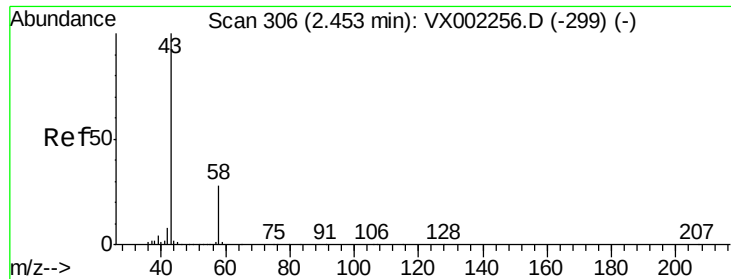


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Instrument :

MSVOA_X

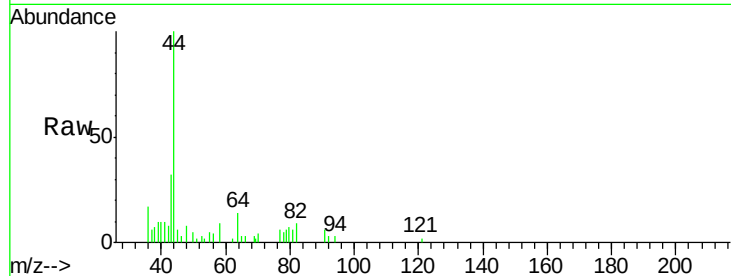
ClientSampled :

Tot Ion: 43 Resp: 1085

Ion Ratio Lower Upper

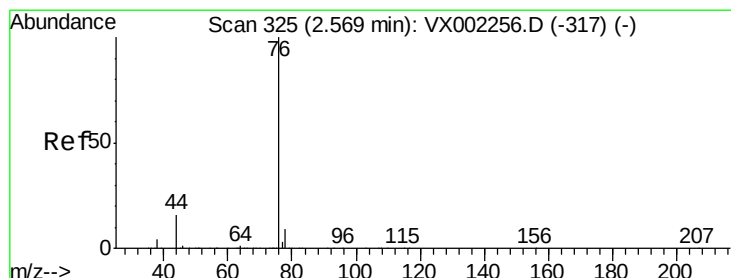
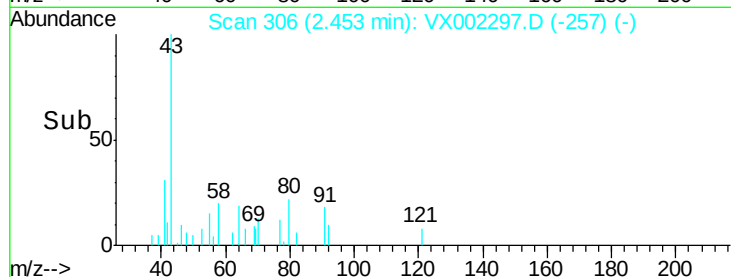
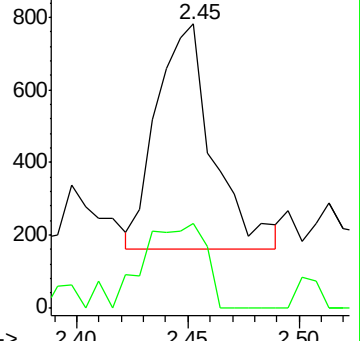
43 100

58 40.1 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: 0.28 ug/l

RT: 2.57 min Scan# 326

Delta R.T. 0.01 min

Lab File: VX002297.D

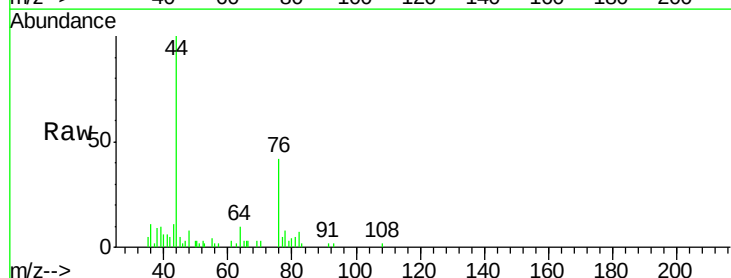
Acq: 05 Jun 2018 11:10

Tgt Ion: 76 Resp: 2101

Ion Ratio Lower Upper

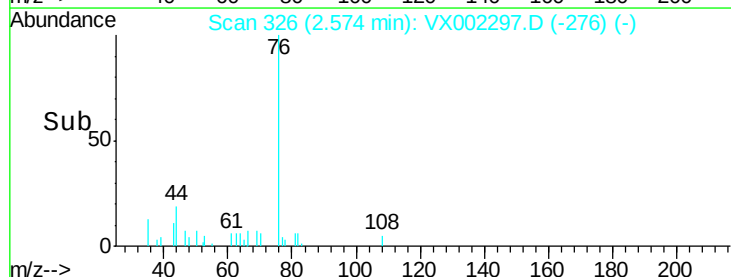
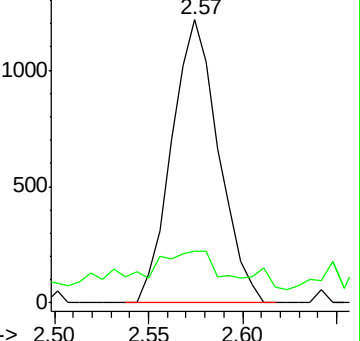
76 100

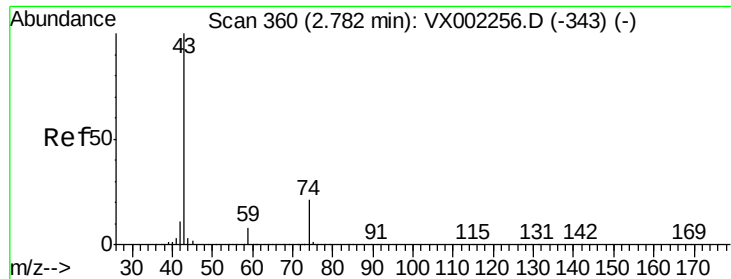
78 12.4 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

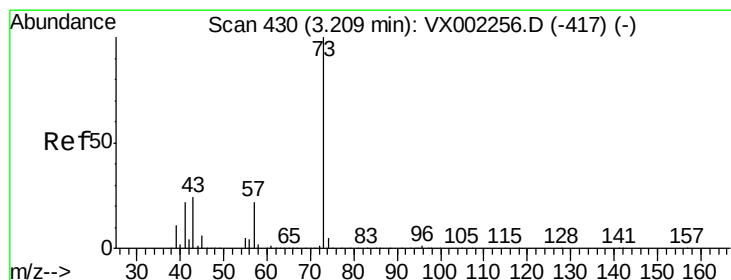
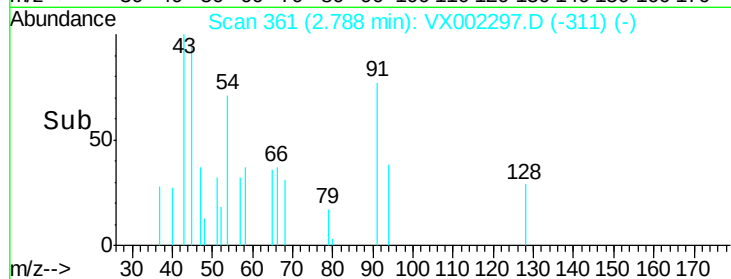
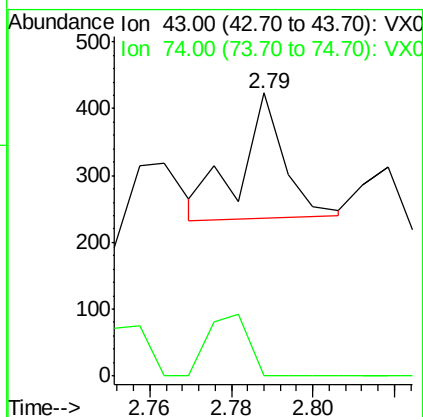
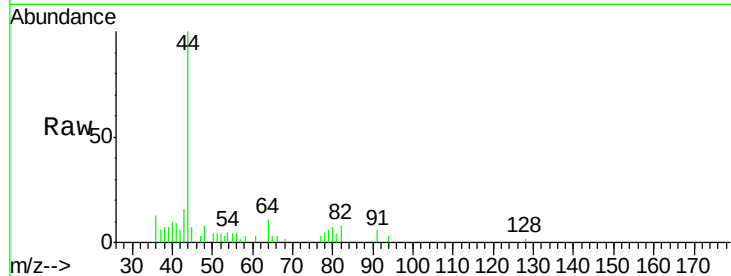




#18
Methyl Acetate
Concen: Below Cal
RT: 2.79 min Scan# 361
Delta R.T. 0.01 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

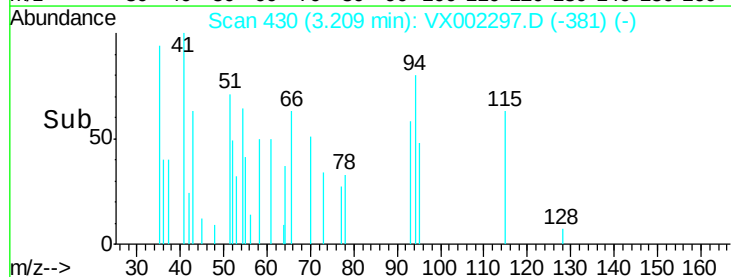
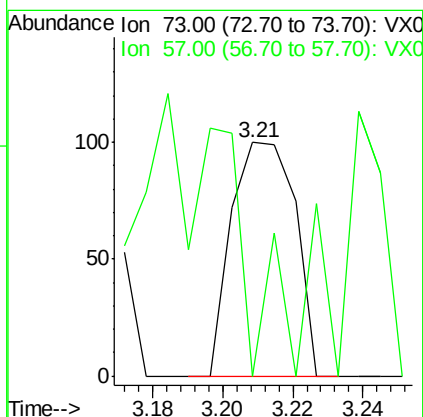
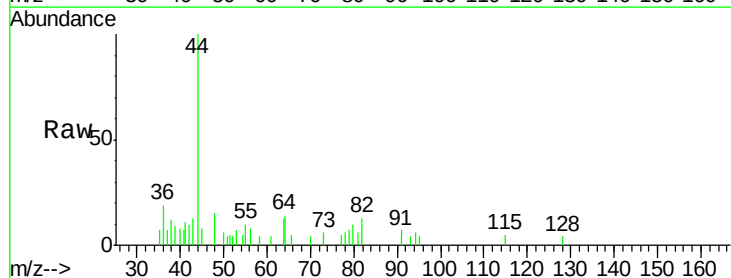
Instrument :
MSVOA_X
ClientSampled :

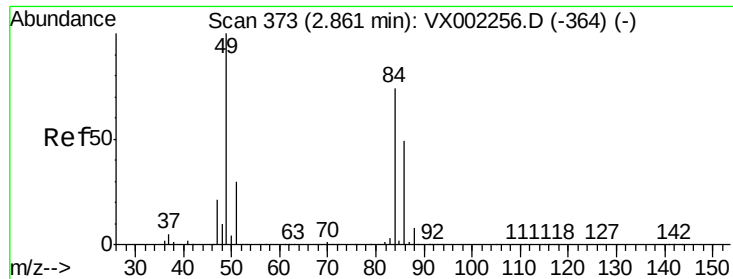
Tot Ion: 43 Resp: 142
Ion Ratio Lower Upper
43 100
74 44.4 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

Tgt Ion: 73 Resp: 127
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

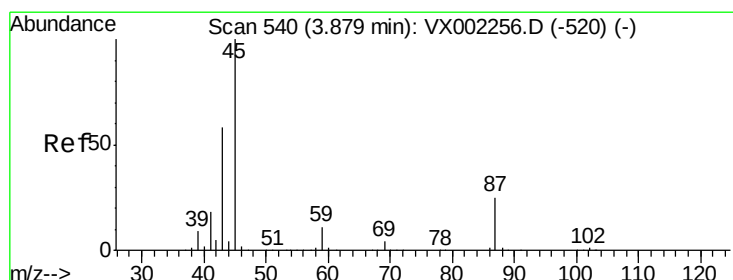
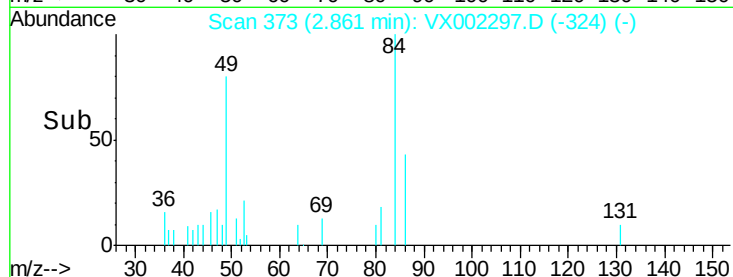
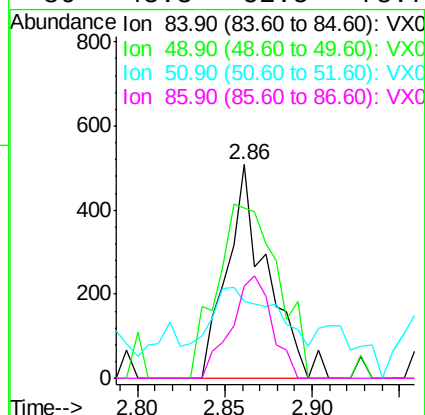
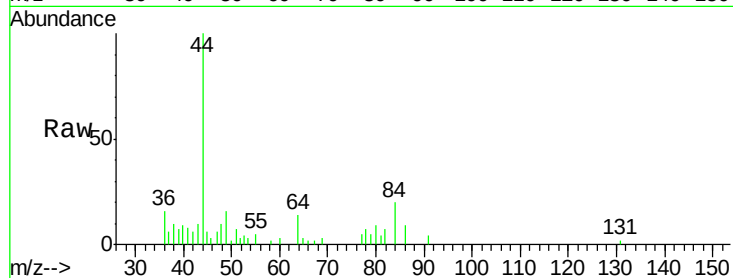




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

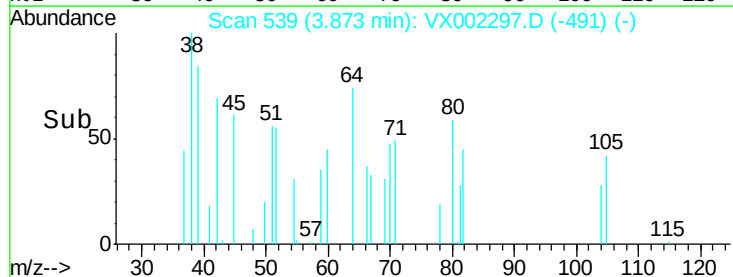
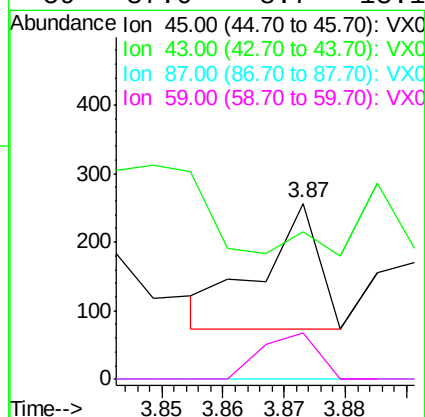
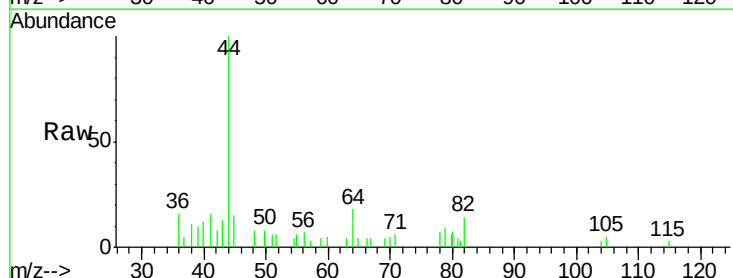
Instrument :
MSVOA_X
ClientSampleId :

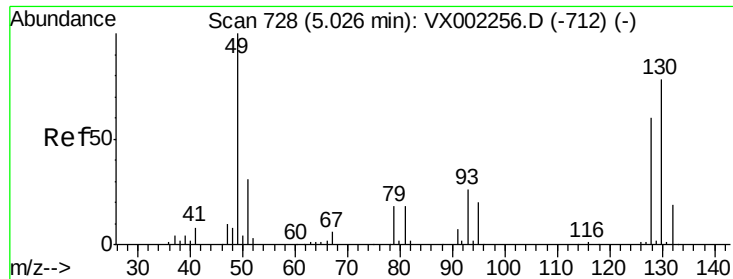
Tot Ion: 84 Resp: 811
Ion Ratio Lower Upper
84 100
49 79.7 107.8 161.6#
51 20.1 32.8 49.2#
86 43.3 52.5 78.7#



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 539
Delta R.T. -0.01 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

Tgt Ion: 45 Resp: 120
Ion Ratio Lower Upper
45 100
43 20.1 46.8 70.2#
87 0.0 20.2 30.4#
59 37.0 8.7 13.1#





#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 729

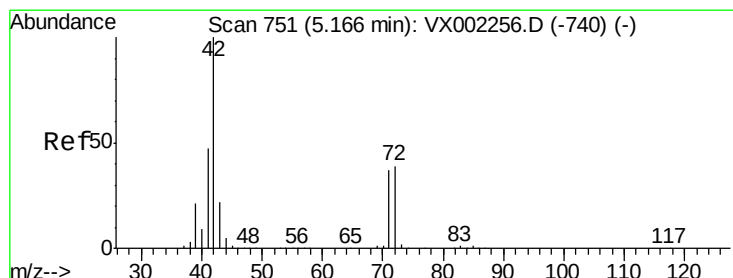
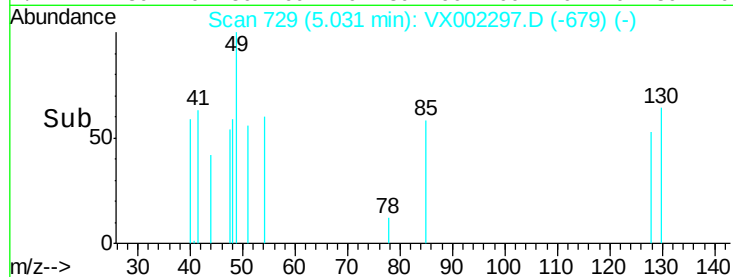
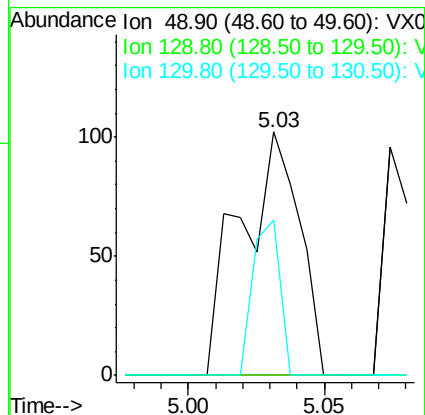
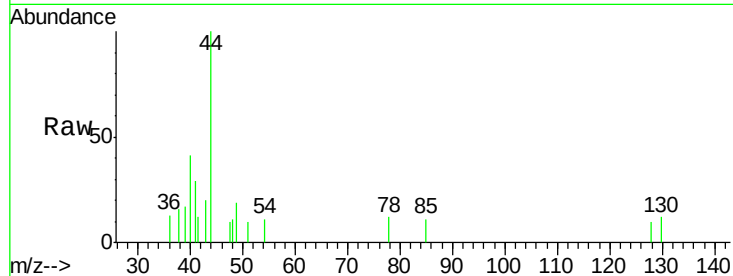
Delta R.T. 0.01 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 49 Resp: 154
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.2
130 29.2 61.2 91.8#



#29

Tetrahydrofuran

Concen: 0.74 ug/l

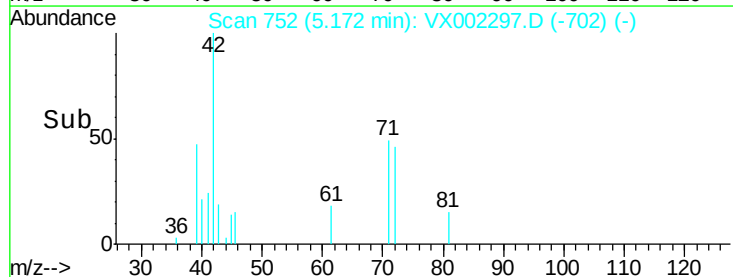
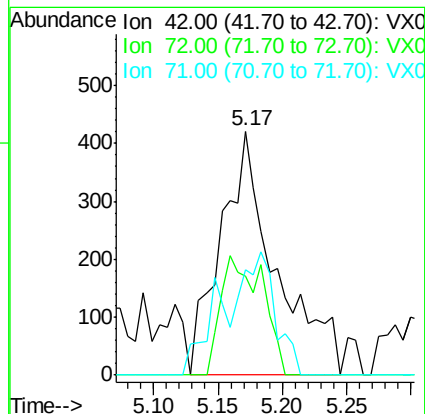
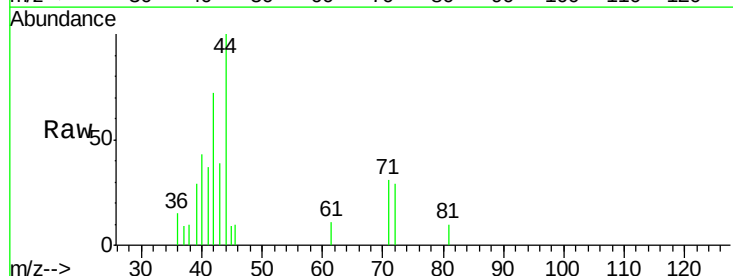
RT: 5.17 min Scan# 752

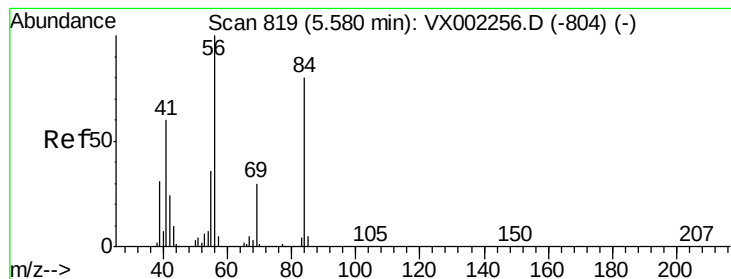
Delta R.T. 0.01 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Tgt Ion: 42 Resp: 1250
Ion Ratio Lower Upper
42 100
72 0.0 32.0 48.0#
71 31.1 30.1 45.1





#31

Cyclohexane

Concen: 1.15 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.09 min

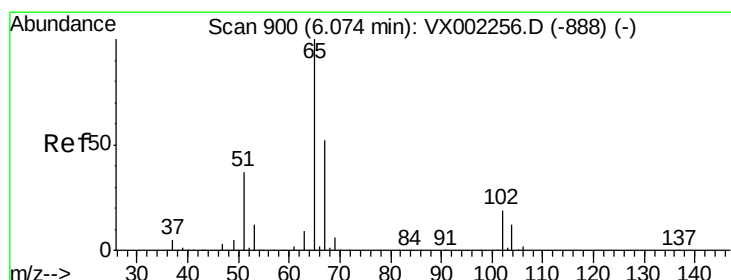
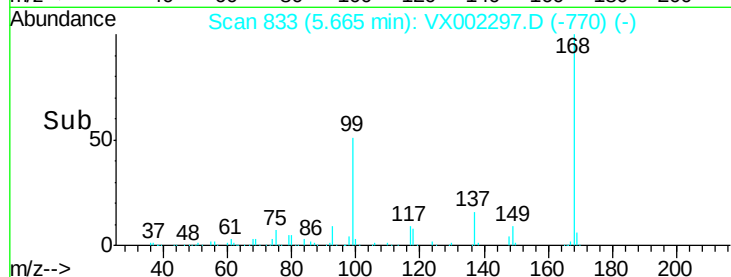
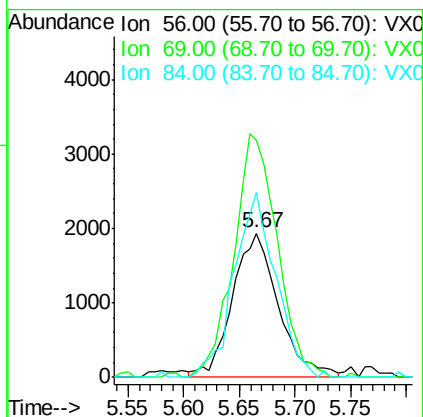
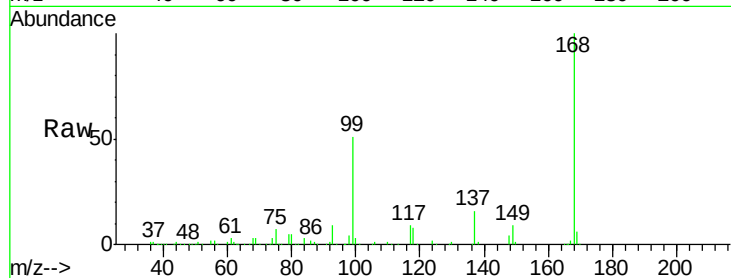
Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 5544

Ion	Ratio	Lower	Upper
56	100		
69	169.6	23.7	35.5#
84	132.0	64.1	96.1#



#33

1,2-Dichloroethane-d4

Concen: 52.86 ug/l

RT: 6.07 min Scan# 899

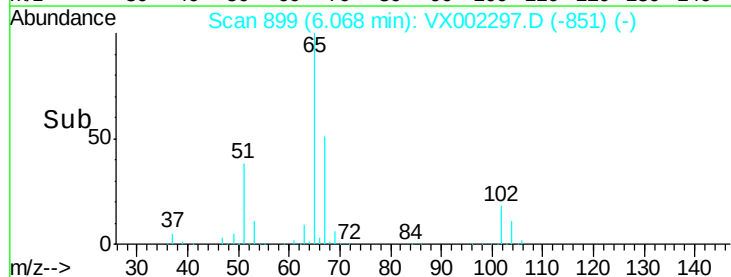
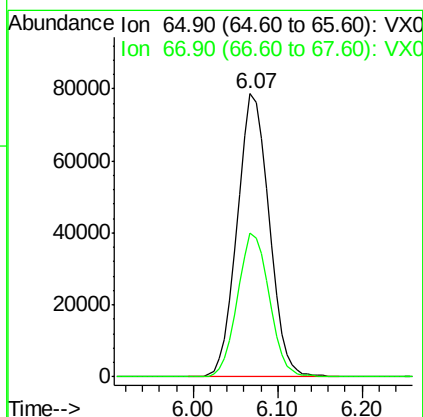
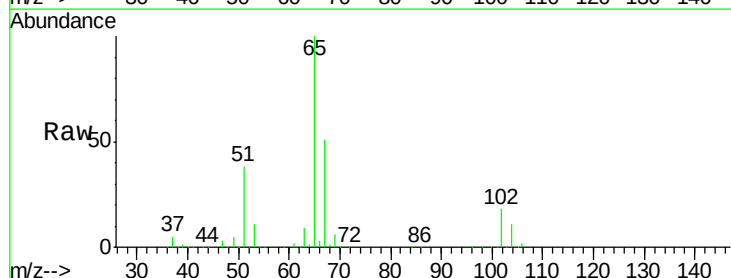
Delta R.T. -0.01 min

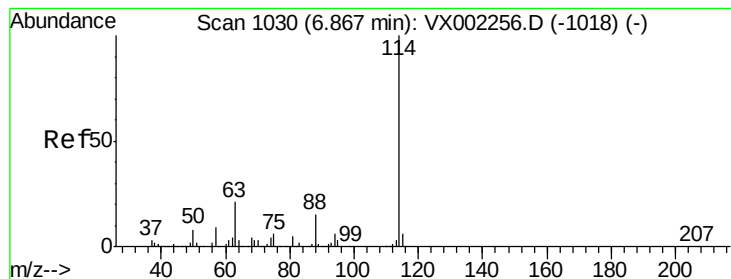
Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Tgt Ion: 65 Resp: 201608

Ion	Ratio	Lower	Upper
65	100		
67	50.7	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: VX002297.D

Acq: 05 Jun 2018 11:10

Instrument :

MSVOA_X

ClientSampleId :

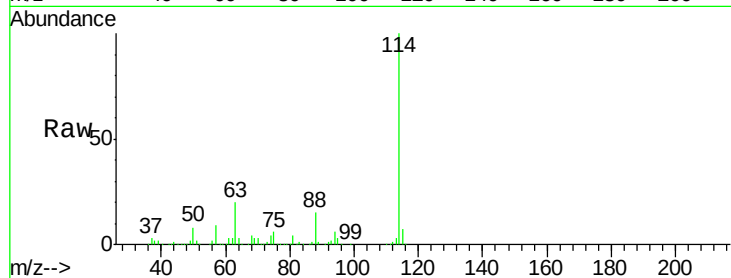
Tot Ion:114 Resp: 382840

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

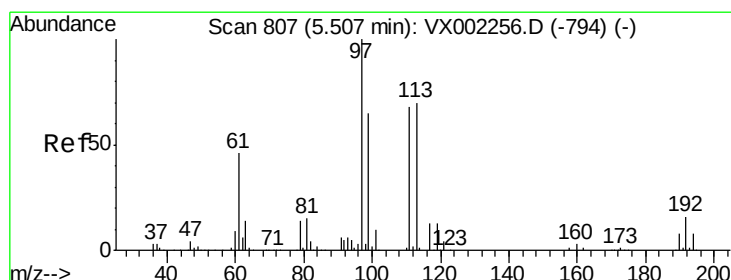
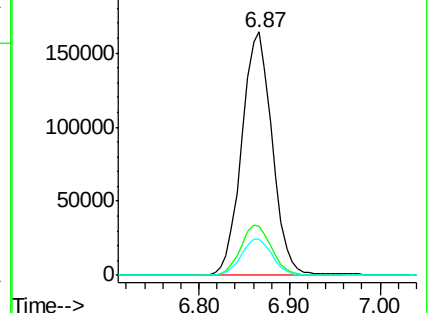
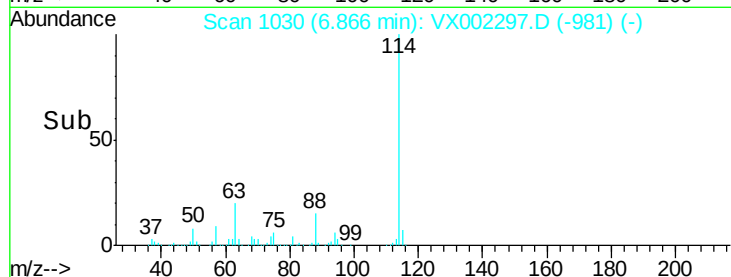
88 14.8 0.0 30.0



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: 49.58 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

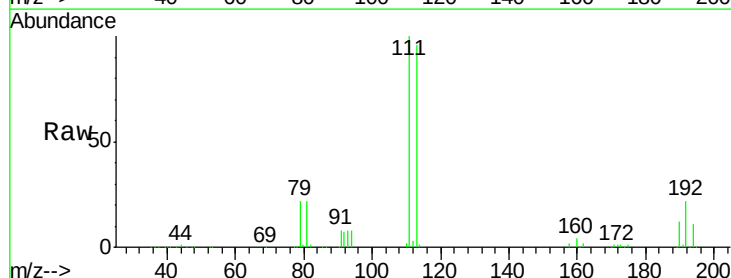
Tgt Ion:113 Resp: 149282

Ion Ratio Lower Upper

113 100

111 103.5 81.4 122.0

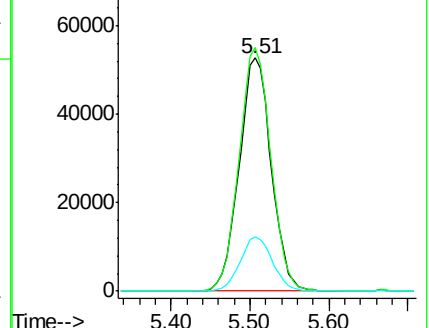
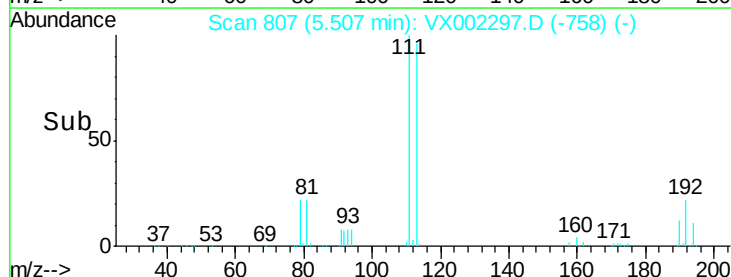
192 23.4 19.1 28.7

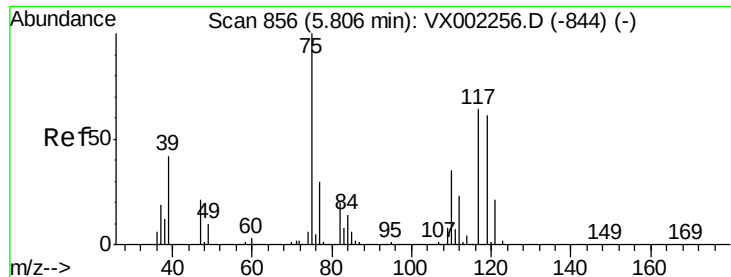


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

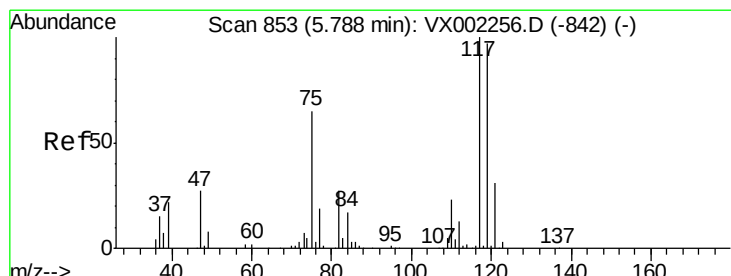
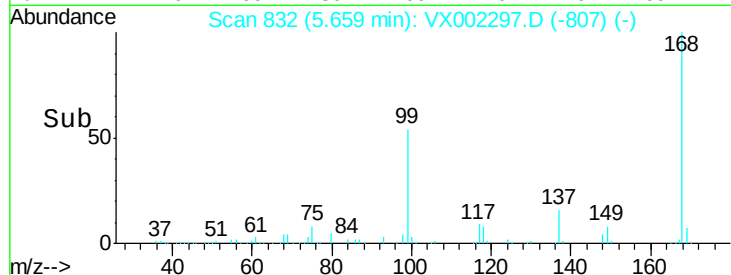
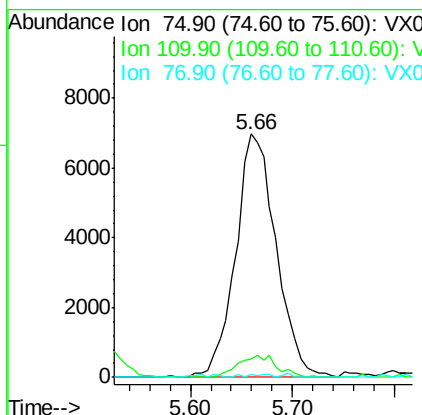
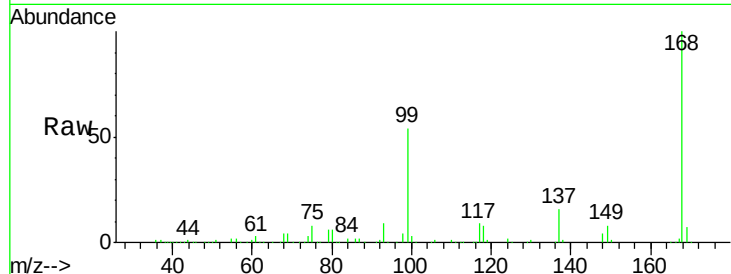




#36
 1,1-Dichloropropene
 Concen: 4.77 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.15 min
 Lab File: VX002297.D
 Acq: 05 Jun 2018 11:10

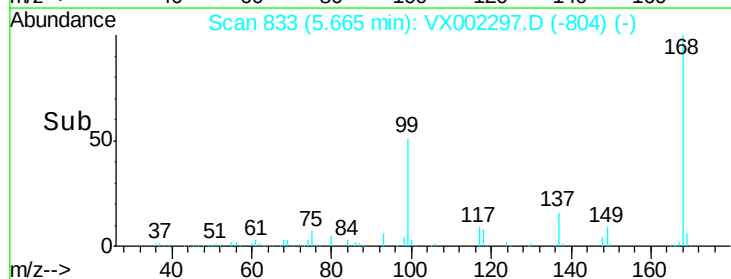
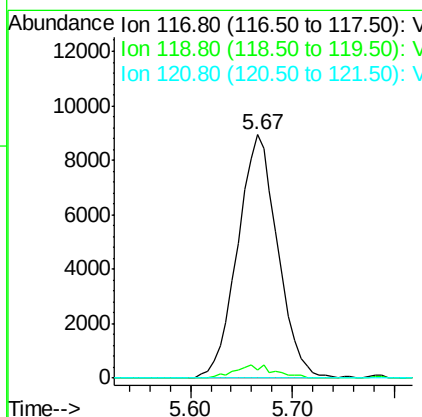
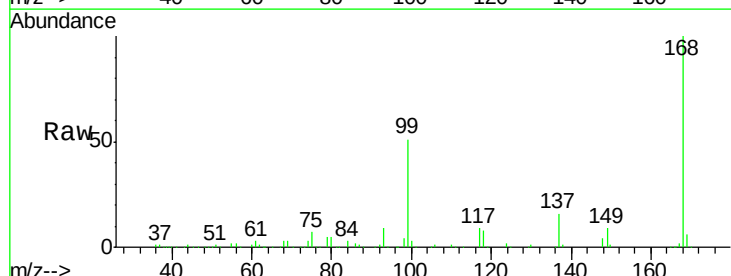
Instrument :
 MSVOA_X
 ClientSampled :

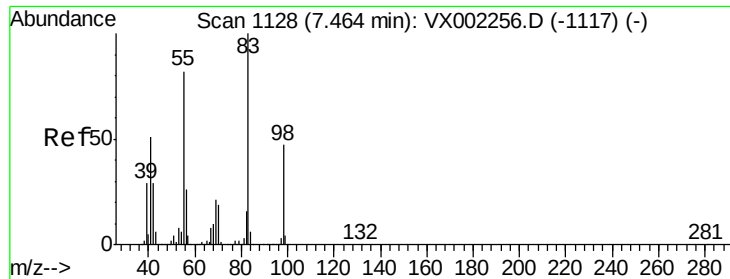
Tot Ion: 75 Resp: 19200
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.1 54.4#
 77 0.7 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 5.78 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX002297.D
 Acq: 05 Jun 2018 11:10

Tgt Ion: 117 Resp: 24334
 Ion Ratio Lower Upper
 117 100
 119 3.6 77.4 116.0#
 121 0.0 24.4 36.6#

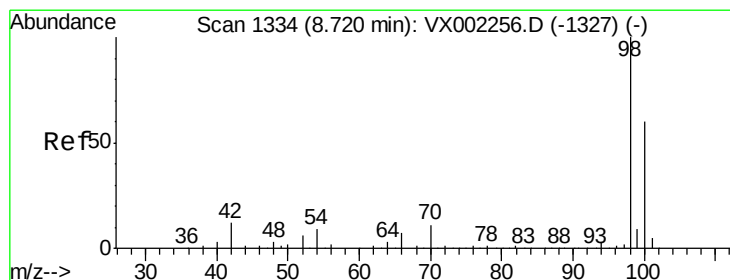
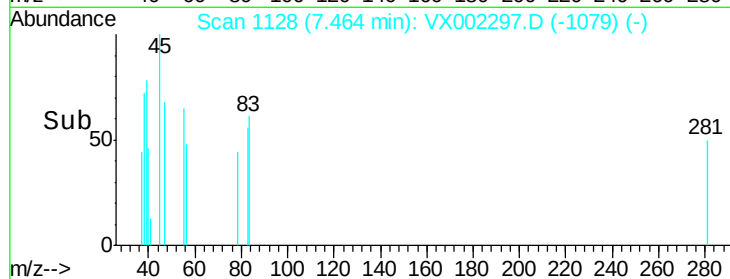
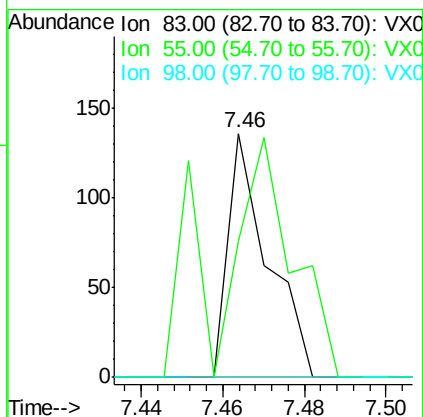
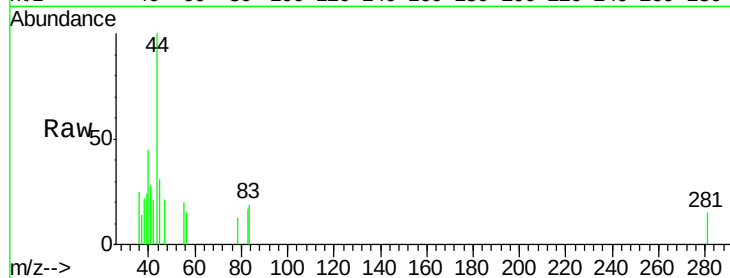




#39
Methylvlcyclohexane
Concen: 0.28 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. -0.00 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

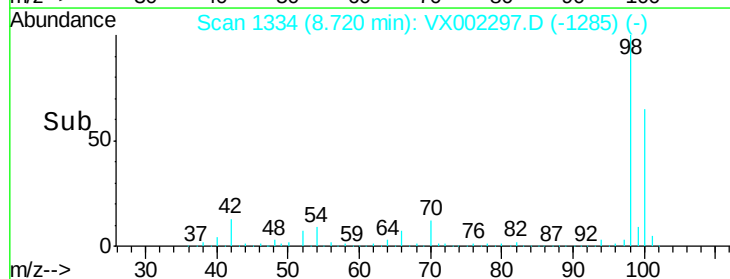
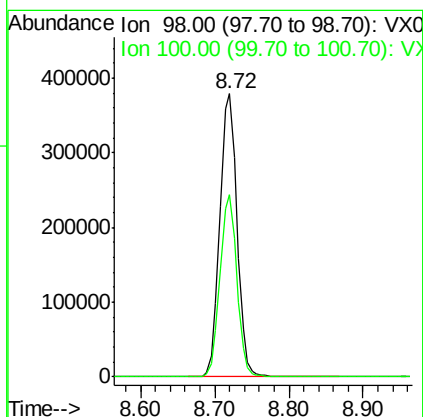
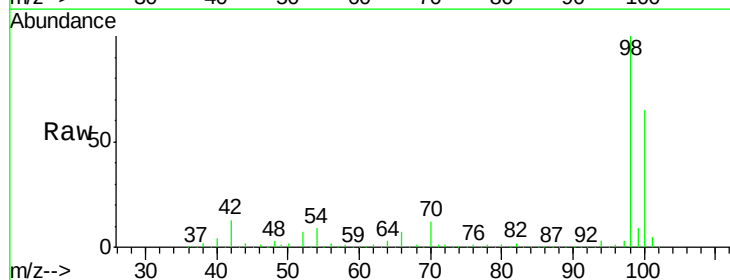
Instrument :
MSVOA_X
ClientSampleId :

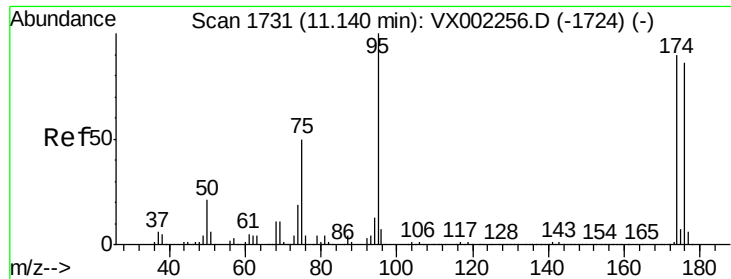
Tot Ion: 83 Resp: 92
Ion Ratio Lower Upper
83 100
55 55.9 65.4 98.0#
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 52.55 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

Tgt Ion: 98 Resp: 606425
Ion Ratio Lower Upper
98 100
100 63.3 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 46.67 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Instrument :

MSVOA_X

ClientSampled :

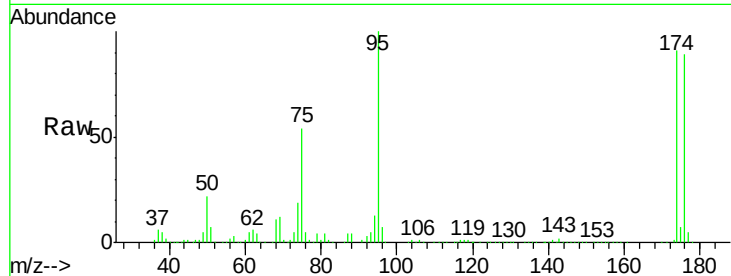
Tot Ion: 95 Resp: 207677

Ion Ratio Lower Upper

95 100

174 94.2 0.0 187.4

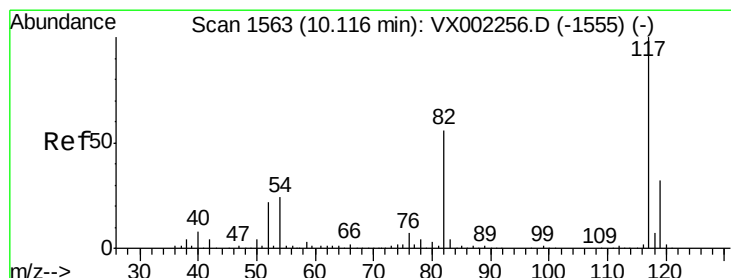
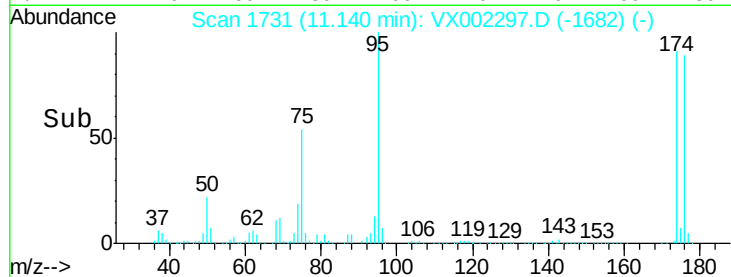
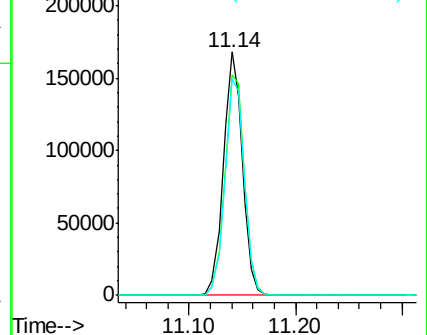
176 91.4 0.0 181.0



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: VX002297.D

Acq: 05 Jun 2018 11:10

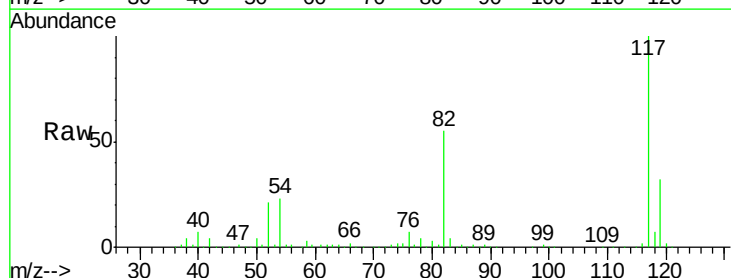
Tgt Ion: 117 Resp: 351382

Ion Ratio Lower Upper

117 100

82 55.2 45.0 67.4

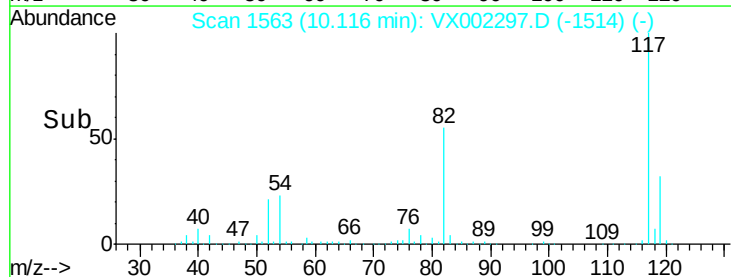
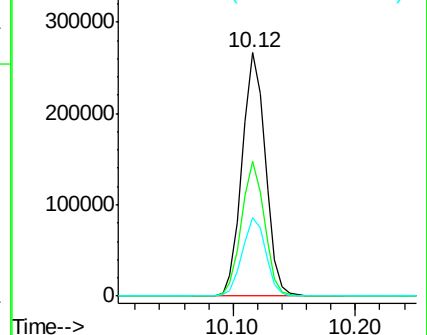
119 32.1 25.8 38.6

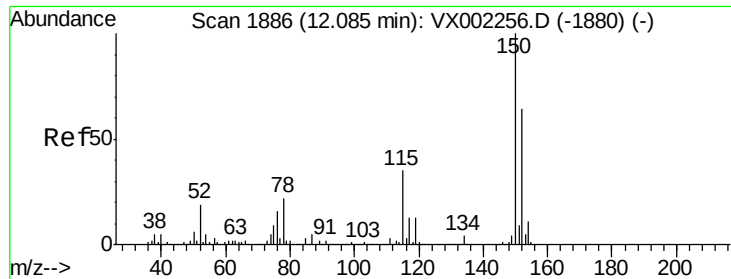


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002297.D

Acq: 05 Jun 2018 11:10

Instrument :

MSVOA_X

ClientSampled :

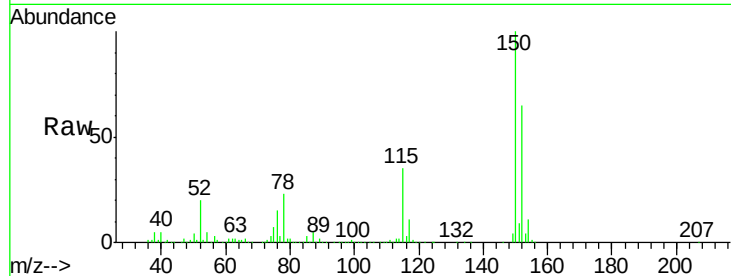
Tot Ion:152 Resp: 194615

Ion Ratio Lower Upper

152 100

115 55.1 40.1 120.2

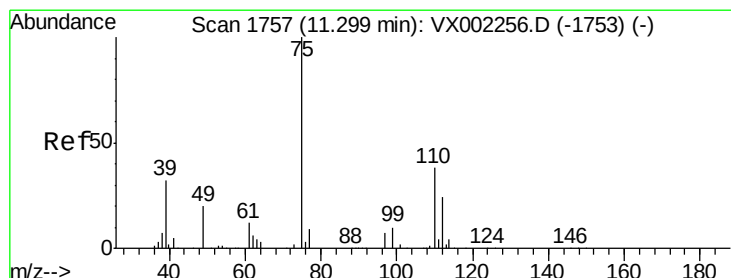
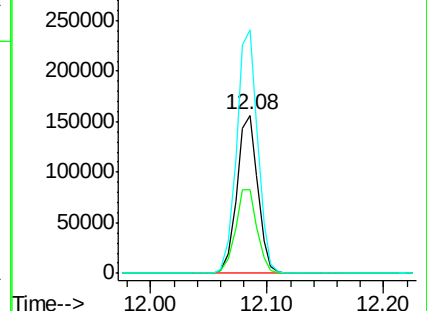
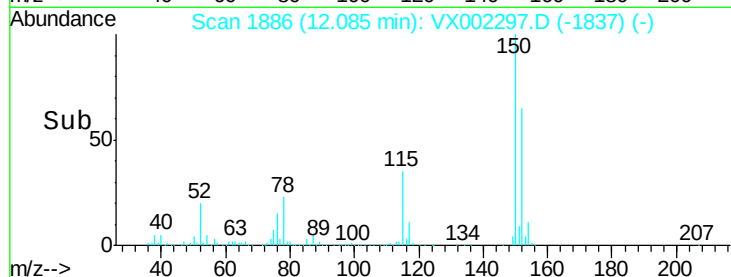
150 155.7 0.0 347.2



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: 26.20 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002297.D

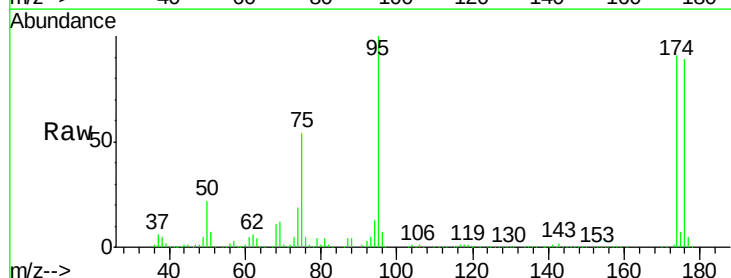
Acq: 05 Jun 2018 11:10

Tgt Ion: 75 Resp: 111901

Ion Ratio Lower Upper

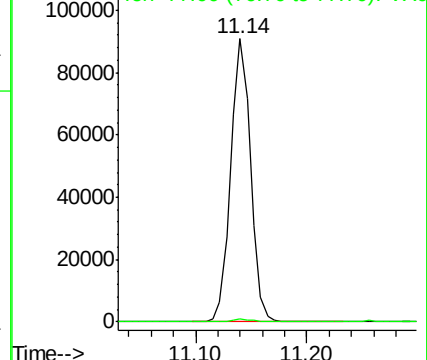
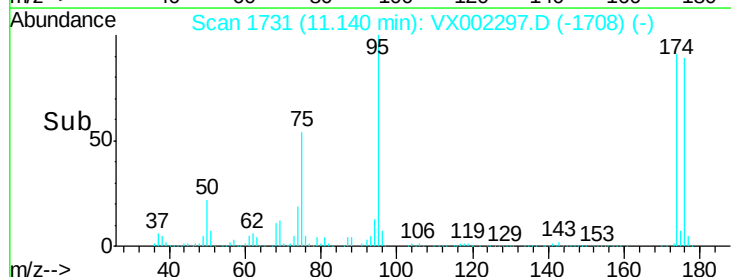
75 100

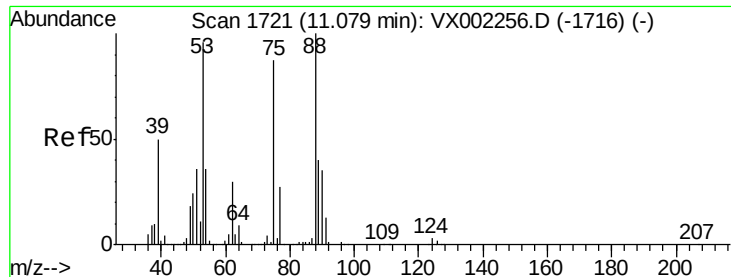
77 1.1 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

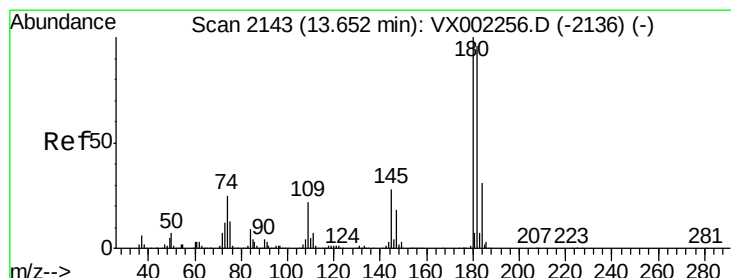
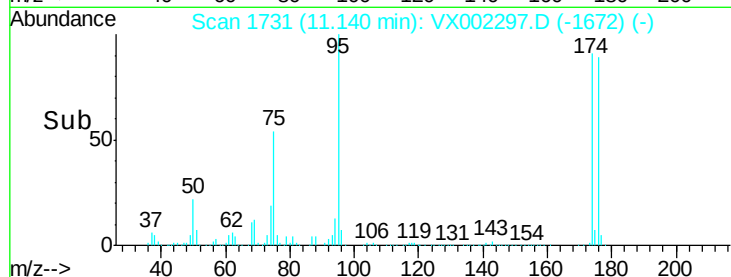
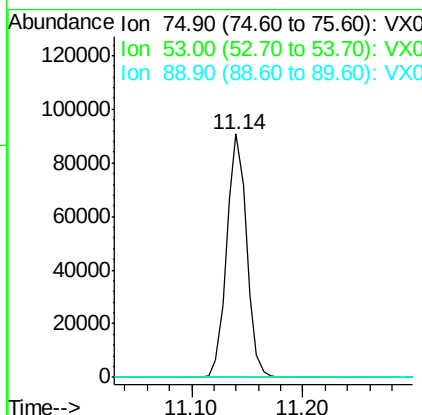
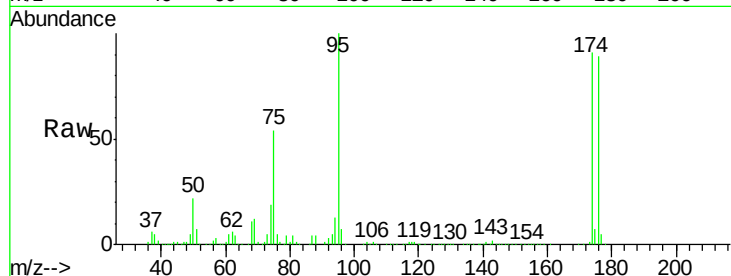




#81
trans-1,4-Dichloro-2-butene
Concen: 91.85 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.06 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 111901
Ion Ratio Lower Upper
75 100
53 0.0 86.8 130.2#
89 0.0 38.2 57.2#



#93
1,2,4-Trichlorobenzene
Concen: 0.24 ug/l
RT: 13.65 min Scan# 2143
Delta R.T. -0.00 min
Lab File: VX002297.D
Acq: 05 Jun 2018 11:10

Tgt Ion:180 Resp: 1170
Ion Ratio Lower Upper
180 100
182 87.9 47.7 143.1
145 28.2 14.1 42.4

