

Data Path : Y:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060418\
 Data File : VX002265.D
 Acq On : 04 Jun 2018 17:27
 Operator : JC/MD
 Sample : J3282-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 05 05:00:04 2018
 Quant Method : Y:\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	268066	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	392955	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	352233	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	194497	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	185988	48.41	ug/l	0.00
Spiked Amount			Recovery	=	96.82%	
35) Dibromofluoromethane	5.51	113	137649	44.54	ug/l	0.00
Spiked Amount			Recovery	=	89.08%	
50) Toluene-d8	8.72	98	553016	46.69	ug/l	0.00
Spiked Amount			Recovery	=	93.38%	
62) 4-Bromofluorobenzene	11.14	95	195542	42.81	ug/l	0.00
Spiked Amount			Recovery	=	85.62%	

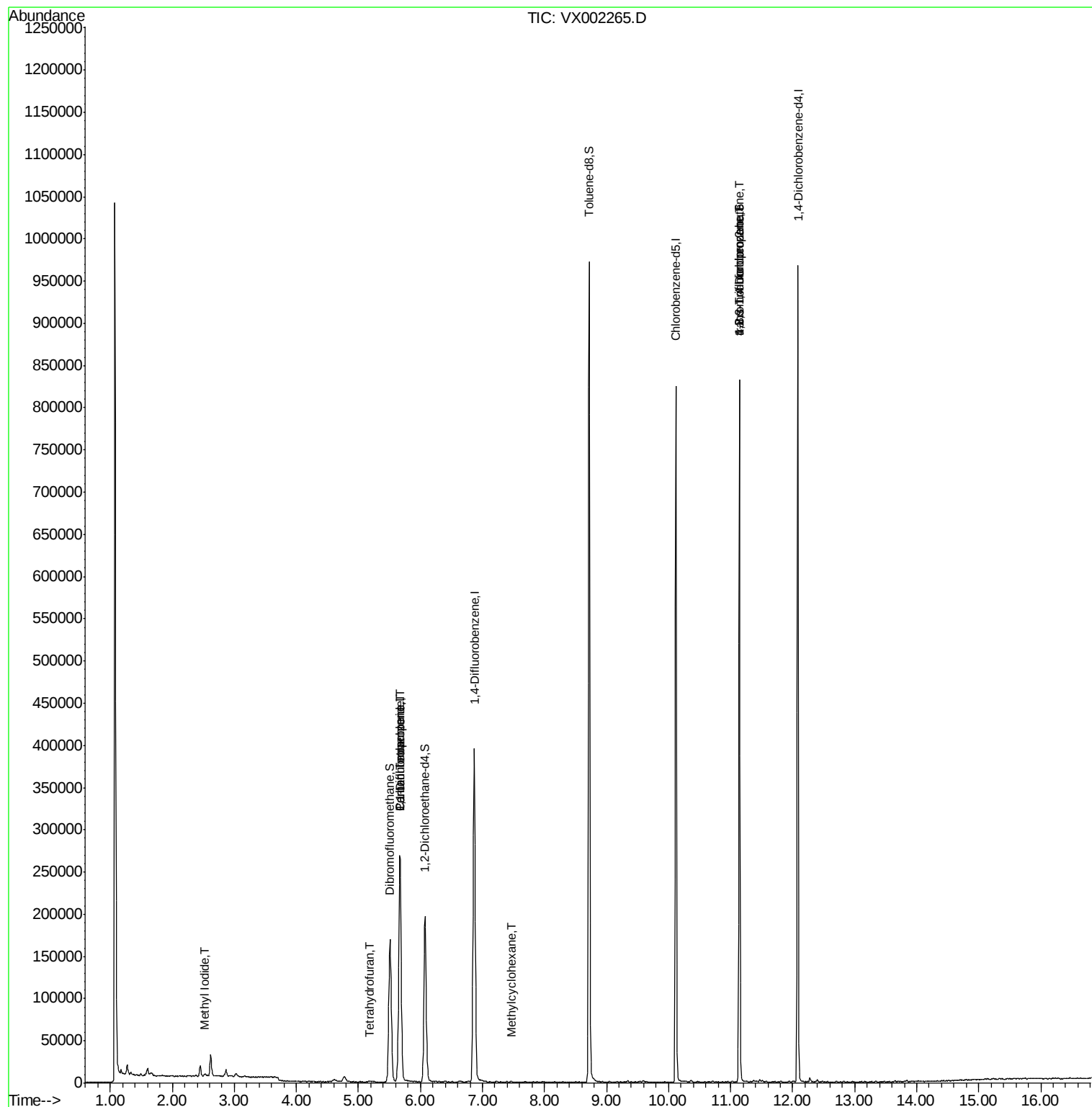
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1017	Below Cal	#	73
5) Bromomethane	1.67	94	2025	Below Cal		99
8) Diethyl Ether	2.29	74	64	Below Cal		97
10) Methyl Iodide	2.52	142	2533	0.62	ug/l	# 91
11) Tert butyl alcohol	3.07	59	489	Below Cal	#	60
13) Acrolein	2.29	56	481	Below Cal	#	34
15) Acrylonitrile	3.17	53	500	Below Cal	#	72
16) Acetone	2.45	43	13245	Below Cal		98
18) Methyl Acetate	2.78	43	236	Below Cal	#	29
19) Methyl tert-butyl Ether	3.18	73	55	Below Cal	#	54
20) Methylene Chloride	2.86	84	3888	Below Cal	#	95
22) Diisopropyl ether	3.87	45	148	Below Cal	#	35
28) Bromochloromethane	5.03	49	79	Below Cal	#	13
29) Tetrahydrofuran	5.17	42	1203	0.71	ug/l	# 57
36) 1,1-Dichloropropene	5.67	75	18671	4.52	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	25555	5.91	ug/l	# 16
39) Methylcyclohexane	7.46	83	221	0.31	ug/l	# 70
76) 1,2,3-Trichloropropane	11.14	75	104636	24.52	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	104636	85.94	ug/l	# 6

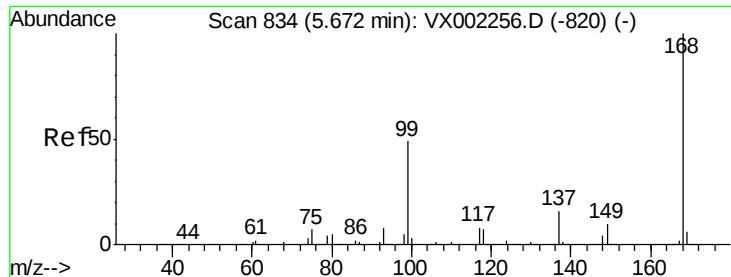
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 05 03:22:35 2018
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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: VX002265.D

Acq: 04 Jun 2018 17:27

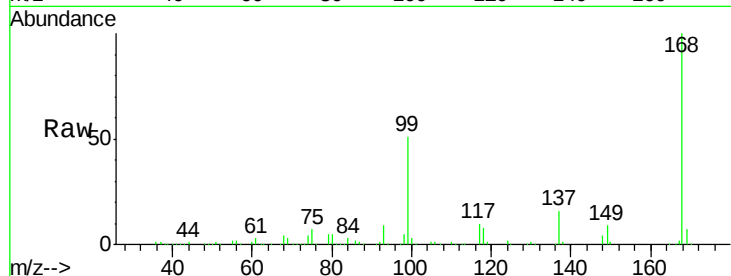
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 268066

Ion Ratio Lower Upper

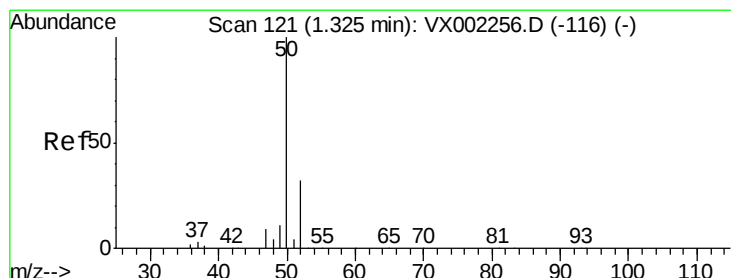
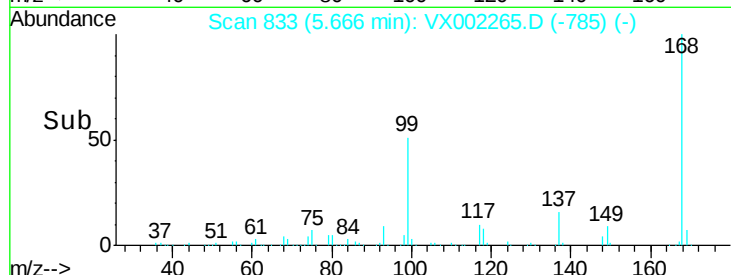
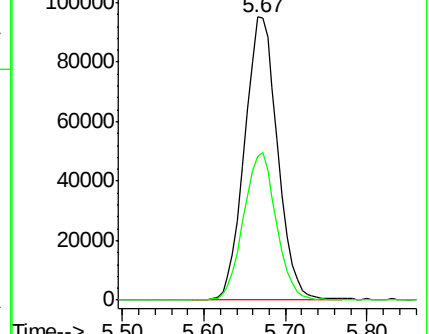
168 100

99 51.0 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 122

Delta R.T. 0.01 min

Lab File: VX002265.D

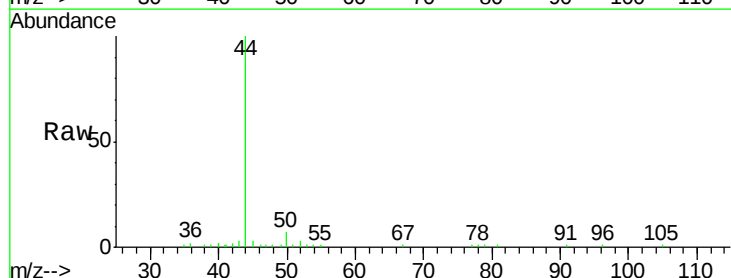
Acq: 04 Jun 2018 17:27

Tgt Ion: 50 Resp: 1017

Ion Ratio Lower Upper

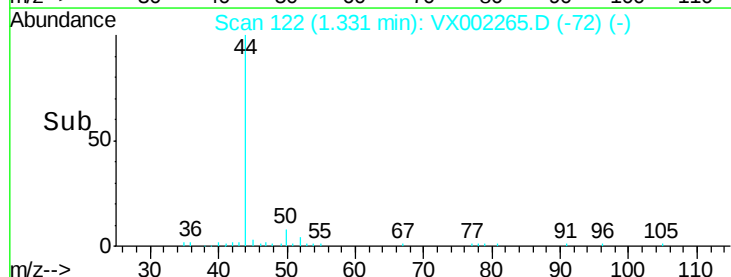
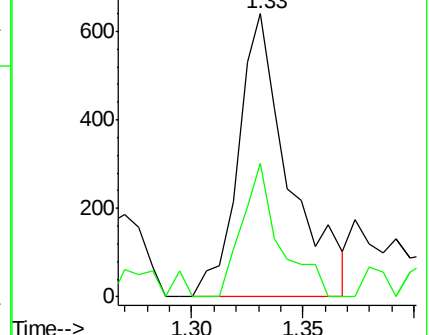
50 100

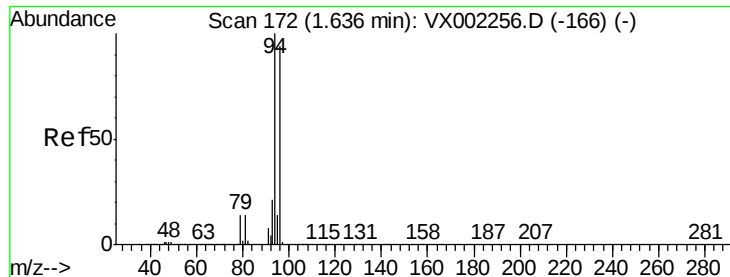
52 47.1 25.7 38.5#



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: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

Instrument :

MSVOA_X

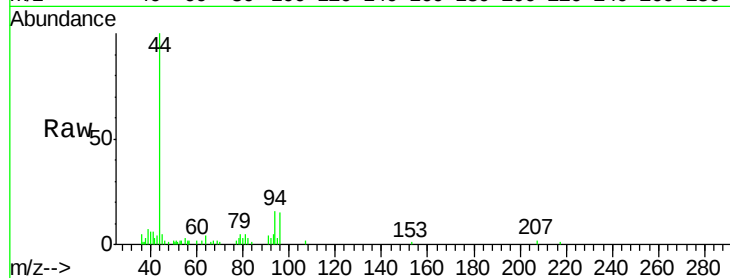
ClientSampled :

Tot Ion: 94 Resp: 2025

Ion Ratio Lower Upper

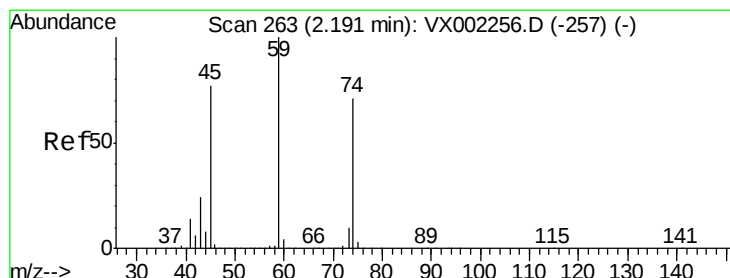
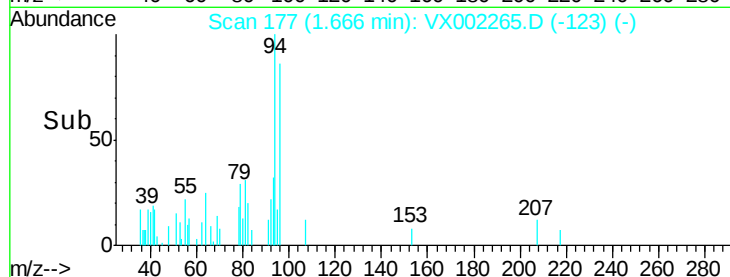
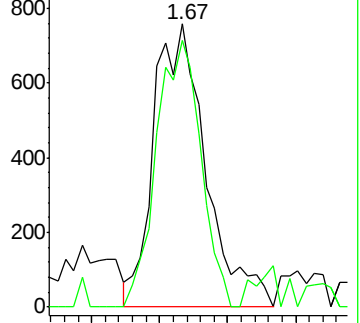
94 100

96 94.3 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: 2.29 min Scan# 279

Delta R.T. 0.10 min

Lab File: VX002265.D

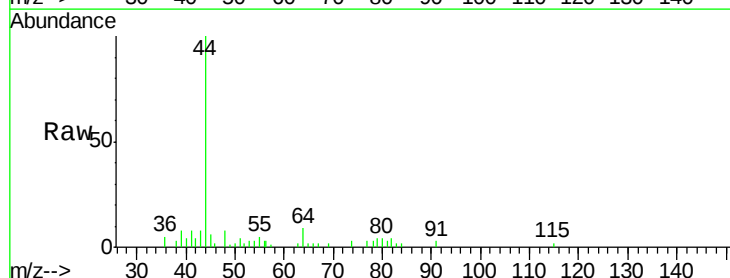
Acq: 04 Jun 2018 17:27

Tgt Ion: 74 Resp: 64

Ion Ratio Lower Upper

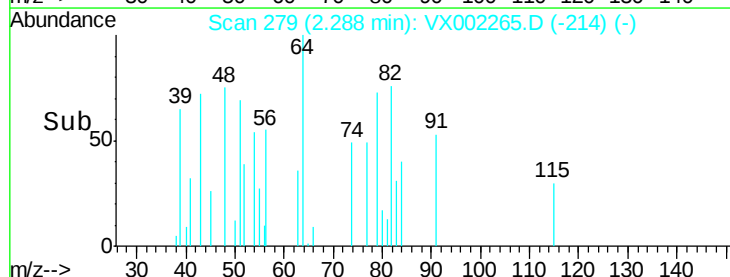
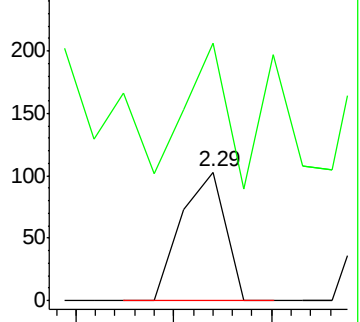
74 100

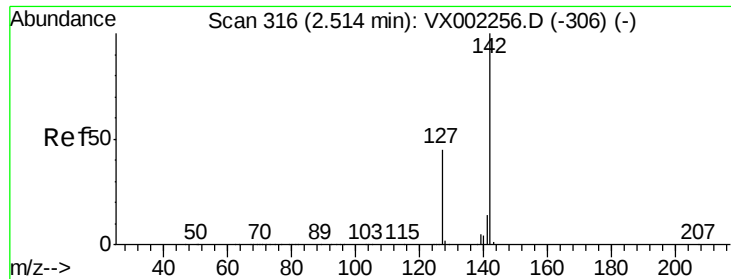
45 103.1 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

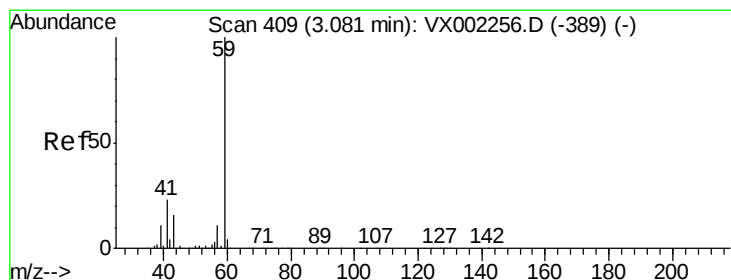
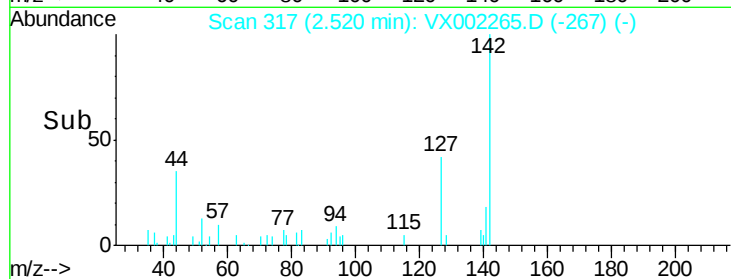
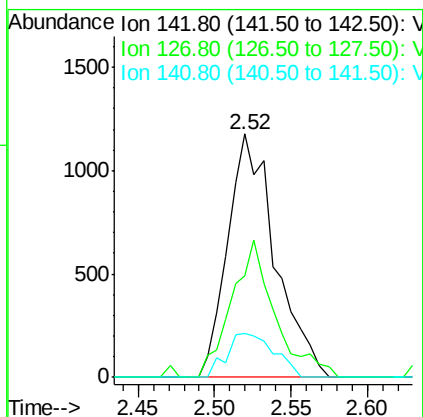
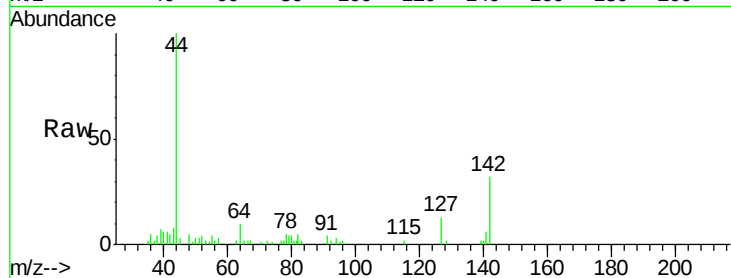




#10
Methvl Iodide
Concen: 0.62 ua/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

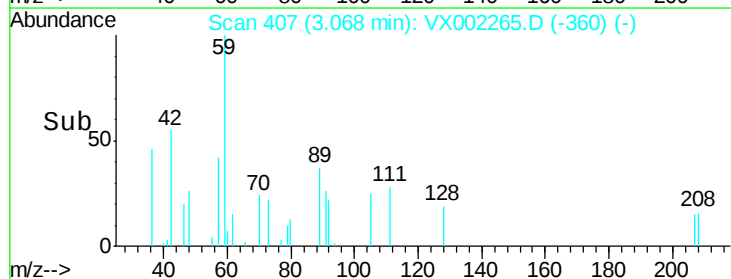
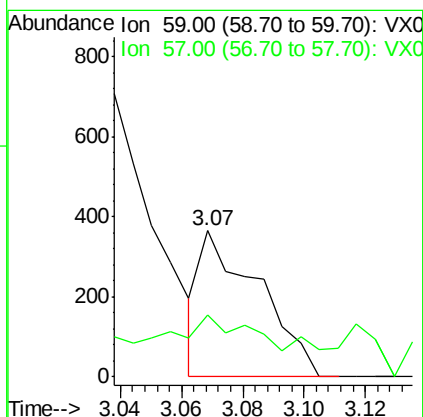
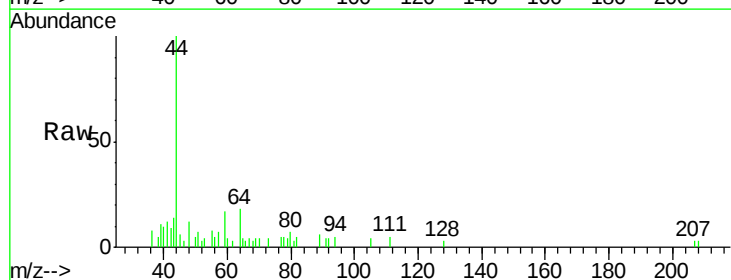
Instrument :
MSVOA_X
ClientSampleId :

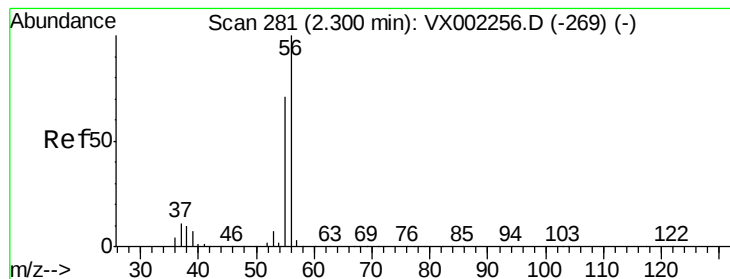
Tot Ion:142 Resp: 2533
Ion Ratio Lower Upper
142 100
127 51.6 36.6 55.0
141 18.0 11.3 16.9#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

Tgt Ion: 59 Resp: 489
Ion Ratio Lower Upper
59 100
57 25.2 8.2 12.2#





#13

Acrolein

Concen: Below Cal

RT: 2.29 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

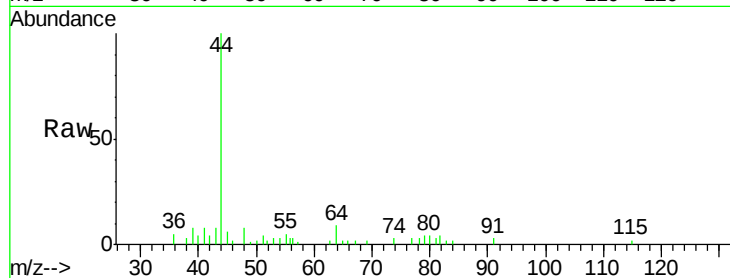
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 481

Ion Ratio Lower Upper

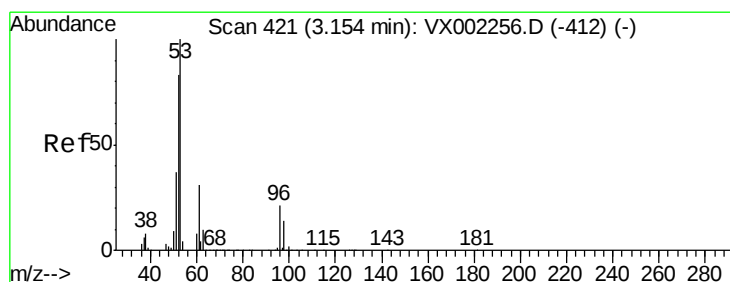
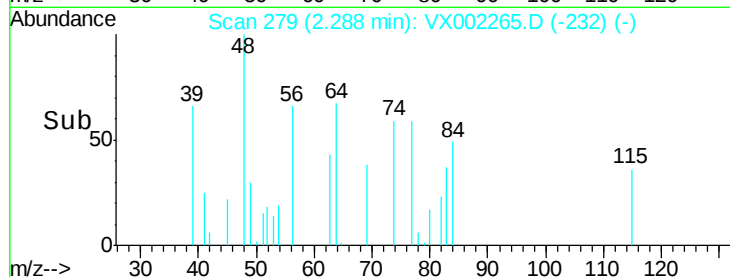
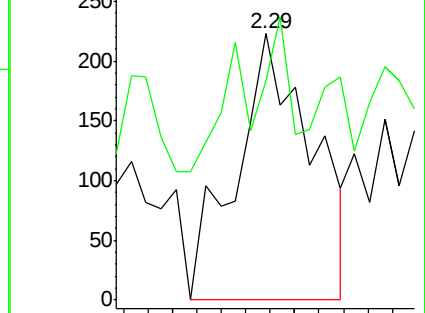
56 100

55 16.4 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: 3.17 min Scan# 423

Delta R.T. 0.01 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

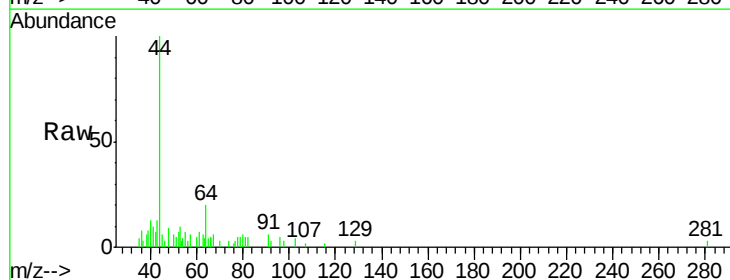
Tgt Ion: 53 Resp: 500

Ion Ratio Lower Upper

53 100

52 103.6 66.7 100.1#

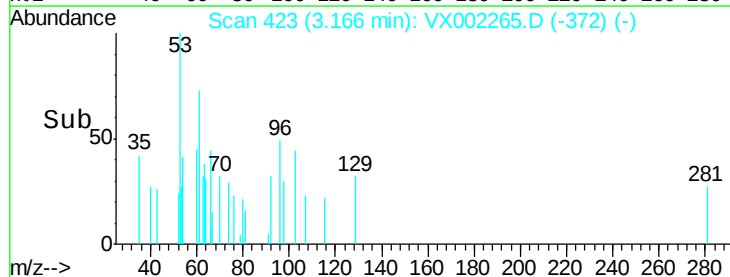
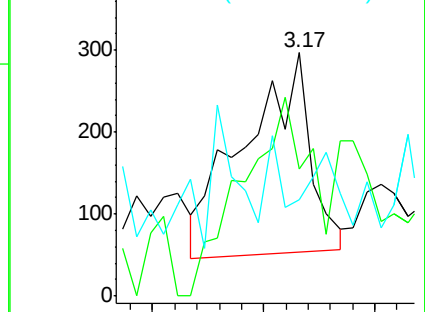
51 13.8 29.9 44.9#

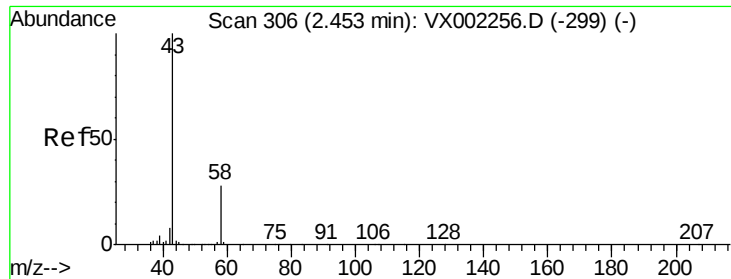


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0

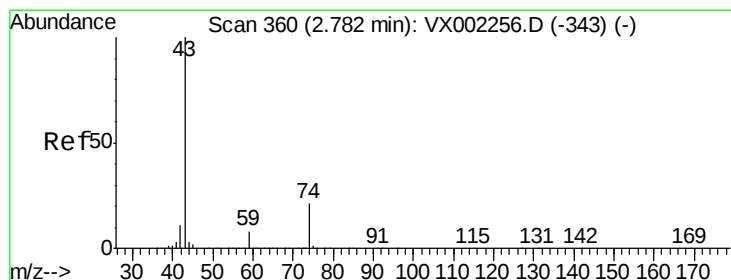
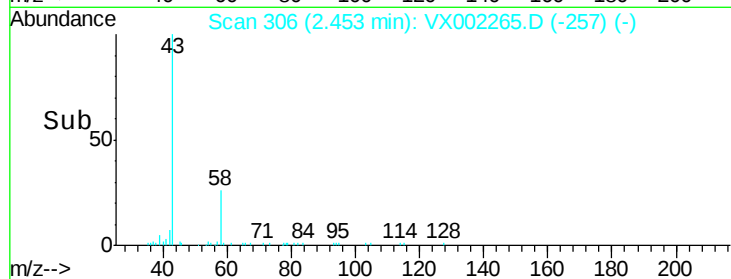
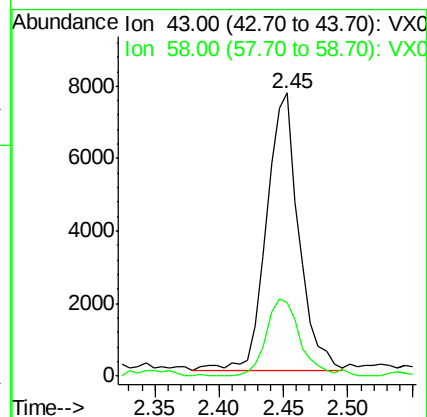
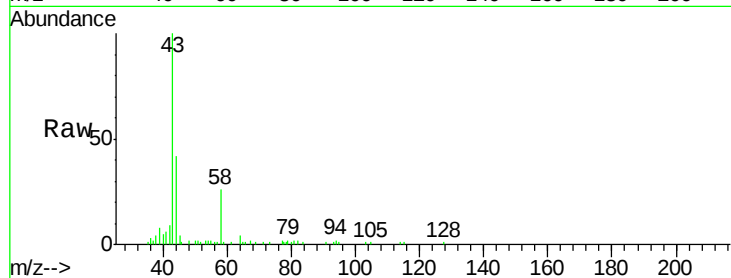




#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

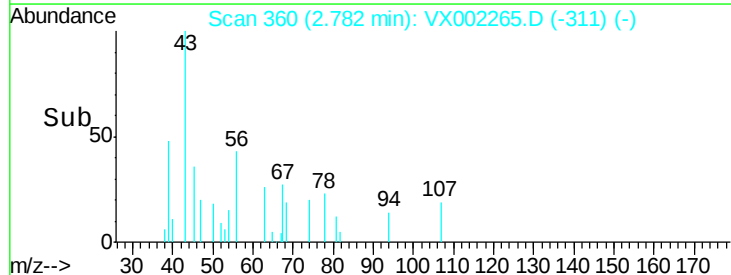
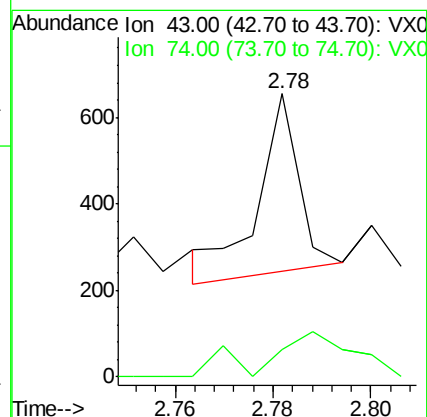
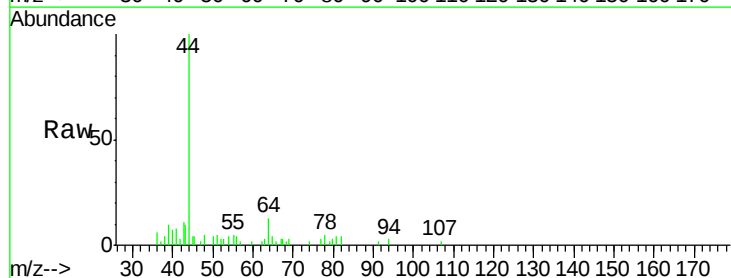
Instrument :
MSVOA_X
ClientSampled :

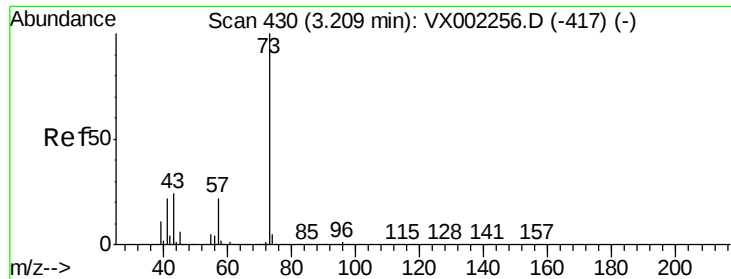
Tot Ion: 43 Resp: 13245
Ion Ratio Lower Upper
43 100
58 26.6 22.1 33.1



#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

Tgt Ion: 43 Resp: 236
Ion Ratio Lower Upper
43 100
74 54.2 16.7 25.1#



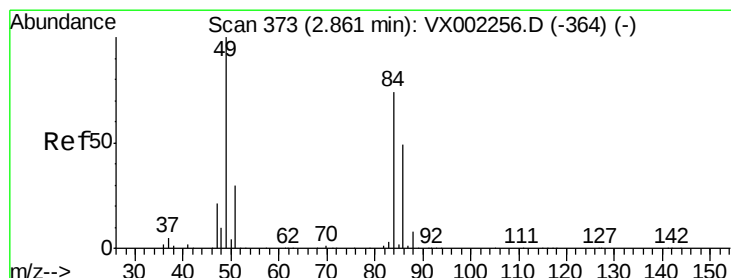
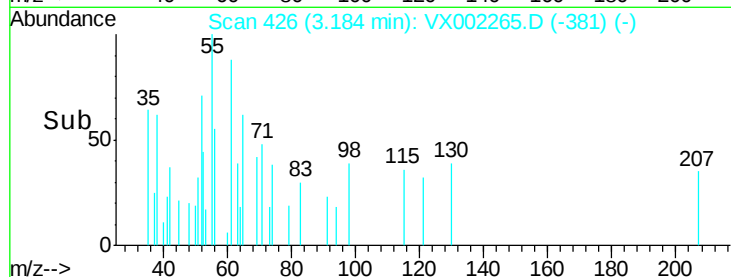
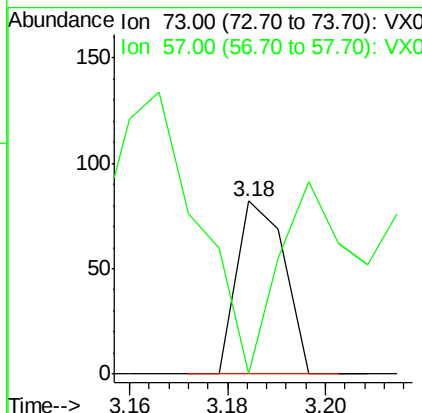
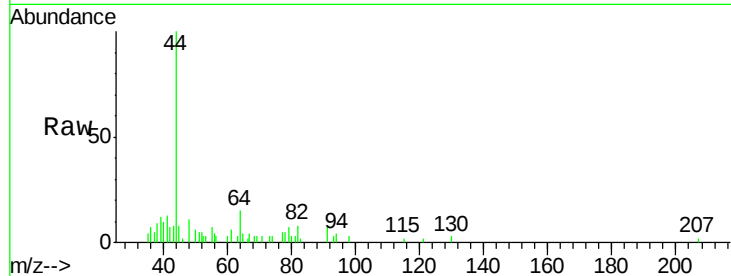


#19

Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.18 min Scan# 426
Delta R.T. -0.02 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

Instrument :
MSVOA_X
ClientSampled :

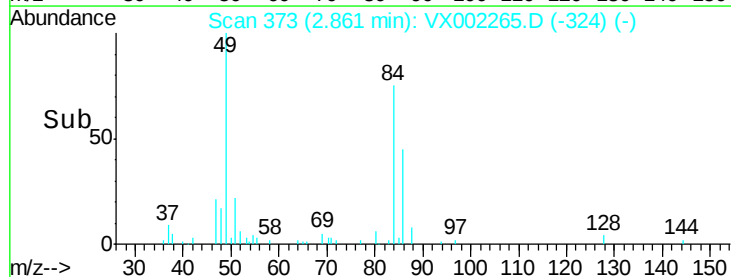
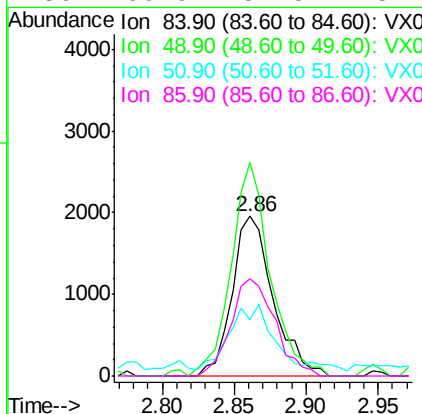
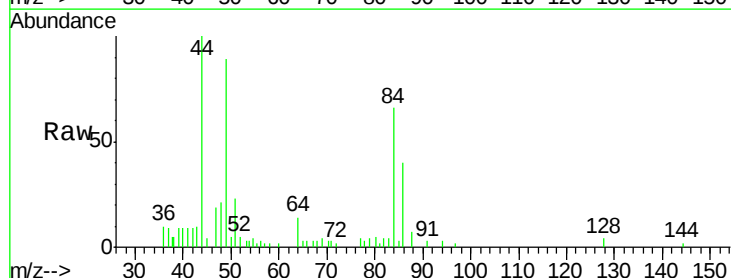
Tot Ion: 73 Resp: 55
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#

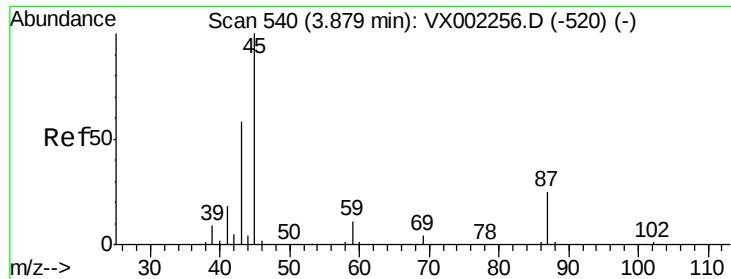


#20

Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

Tgt Ion: 84 Resp: 3888
Ion Ratio Lower Upper
84 100
49 133.9 107.8 161.6
51 30.7 32.8 49.2#
86 60.9 52.5 78.7



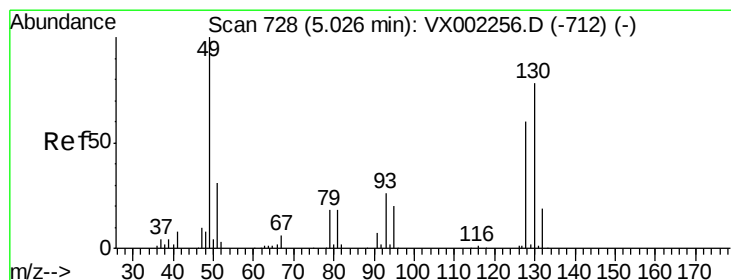
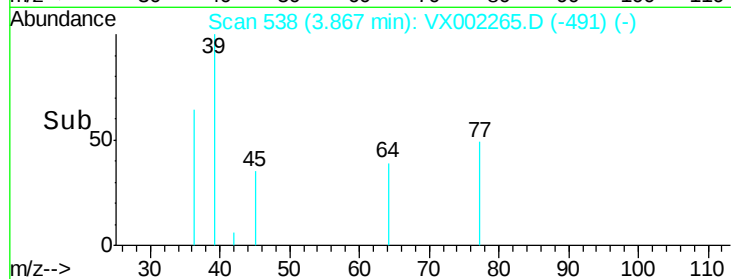
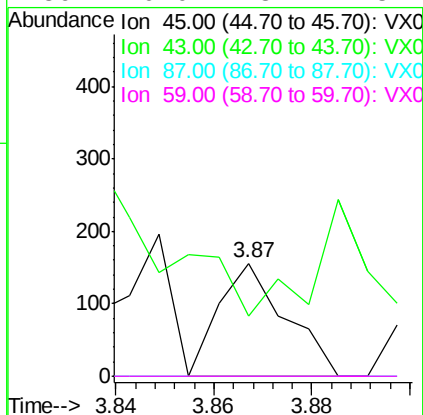
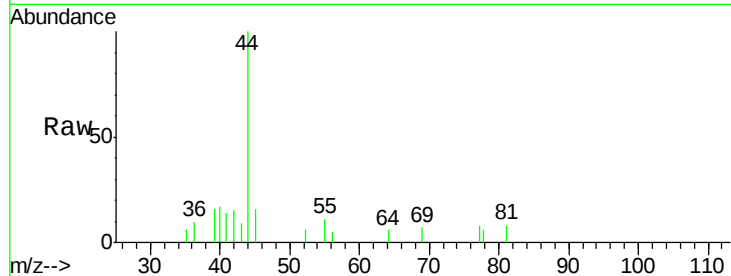


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

Instrument :
MSVOA_X
ClientSampled :

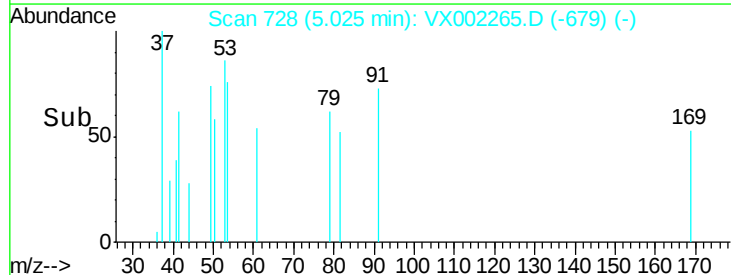
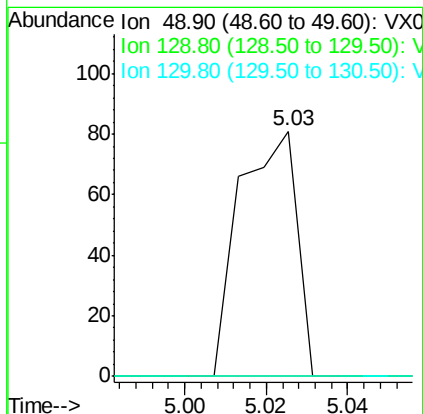
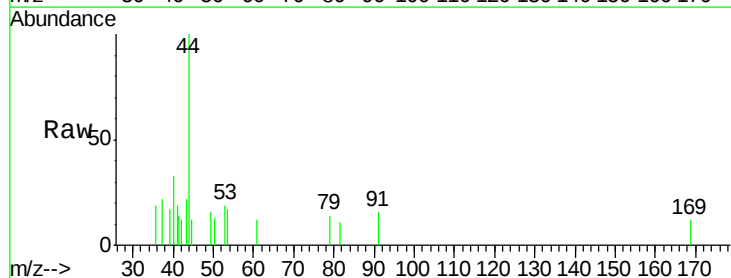
Tot Ion:	45	Resp:	148
Ion	Ratio	Lower	Upper
45	100		
43	0.0	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

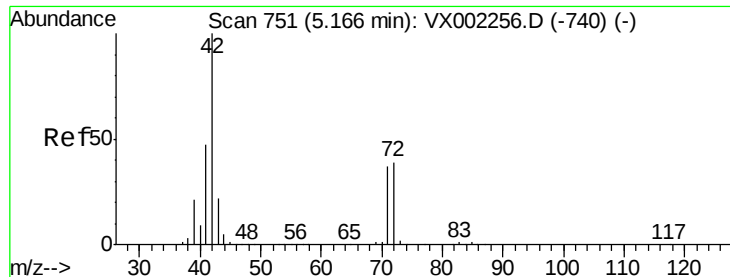


#28

Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 728
Delta R.T. 0.00 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

Tgt Ion:	49	Resp:	79
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#





#29

Tetrahydrofuran

Concen: 0.71 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

Instrument :

MSVOA_X

ClientSampleId :

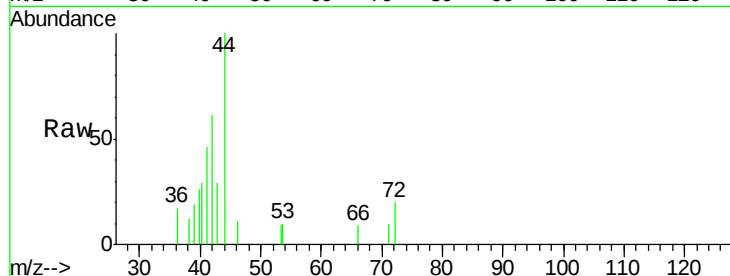
Tot Ion: 42 Resp: 1203

Ion Ratio Lower Upper

42 100

72 14.8 32.0 48.0#

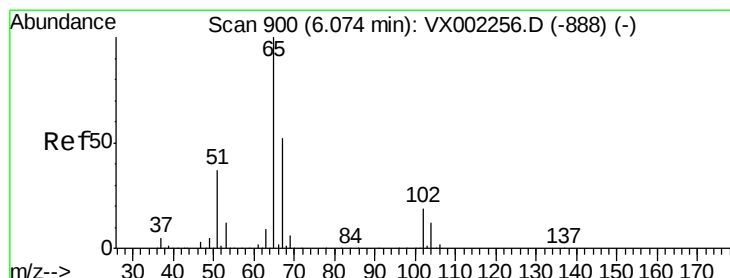
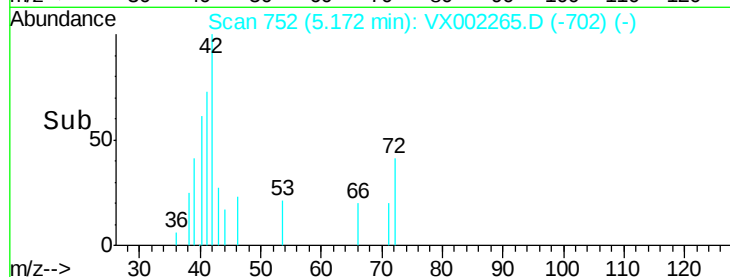
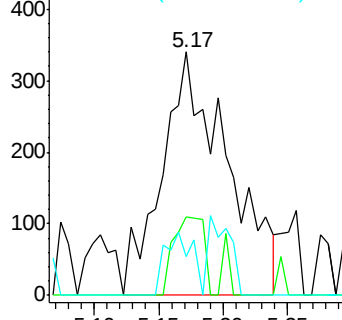
71 10.8 30.1 45.1#



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



#33

1,2-Dichloroethane-d4

Concen: 48.41 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002265.D

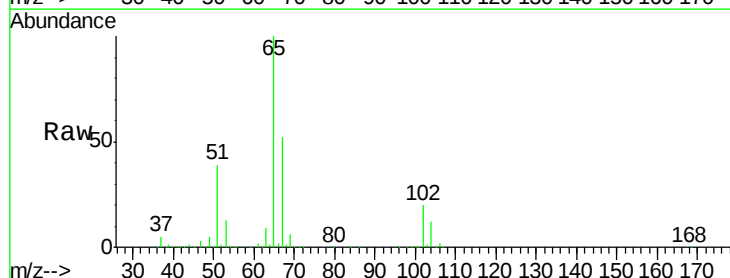
Acq: 04 Jun 2018 17:27

Tgt Ion: 65 Resp: 185988

Ion Ratio Lower Upper

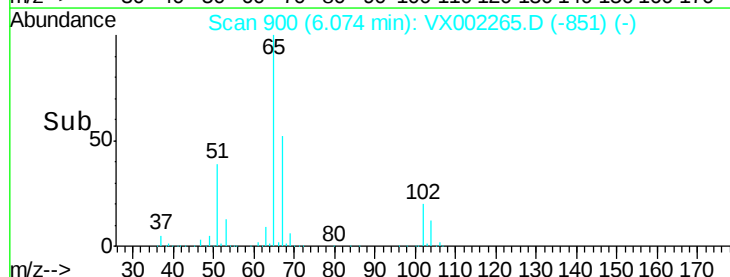
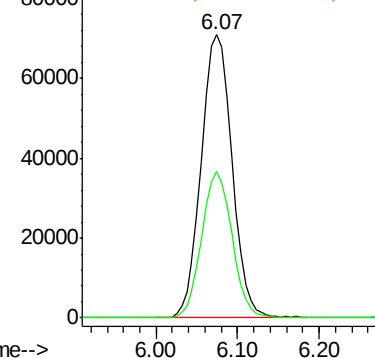
65 100

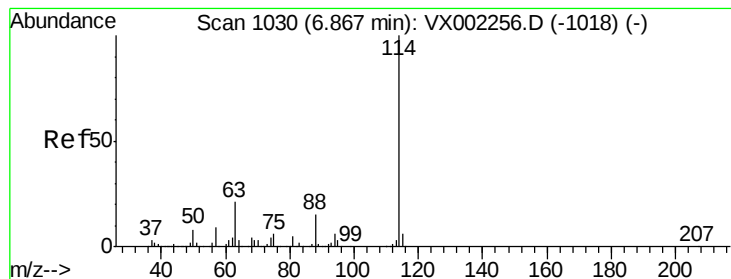
67 50.9 0.0 102.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

Instrument :

MSVOA_X

ClientSampleId :

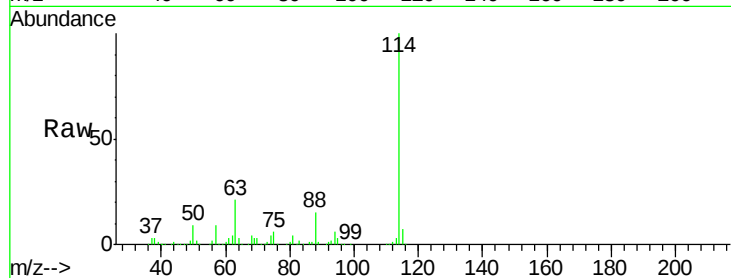
Tot Ion:114 Resp: 392955

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

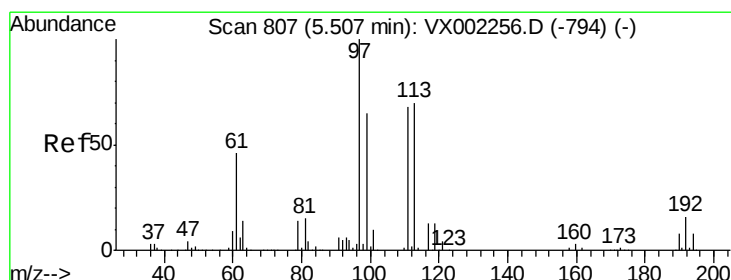
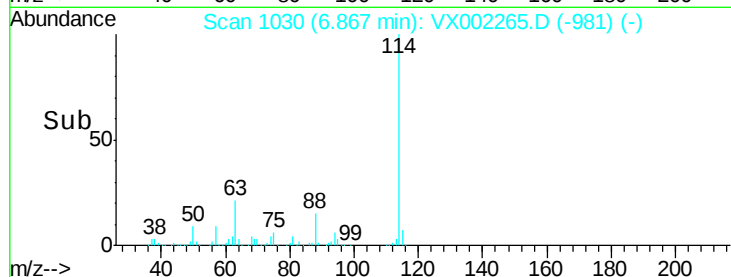
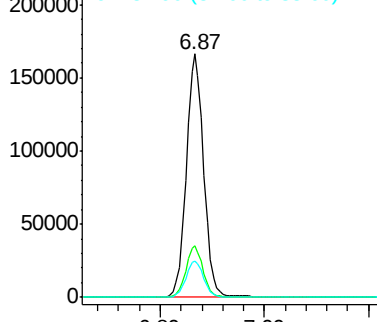
88 15.0 0.0 30.0



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



#35

Dibromofluoromethane

Concen: 44.54 ug/l

RT: 5.51 min Scan# 808

Delta R.T. 0.01 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

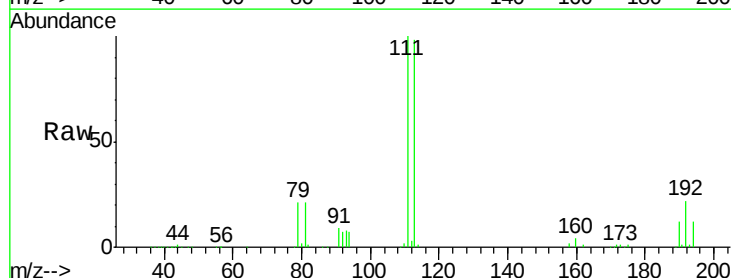
Tgt Ion:113 Resp: 137649

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

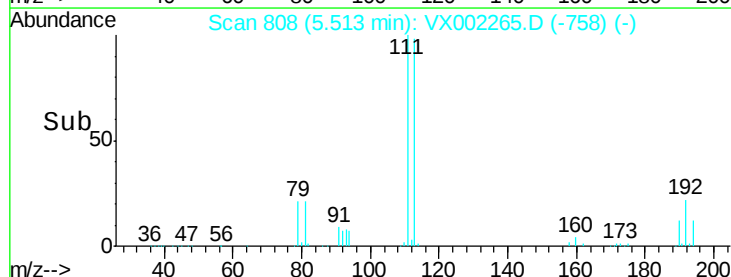
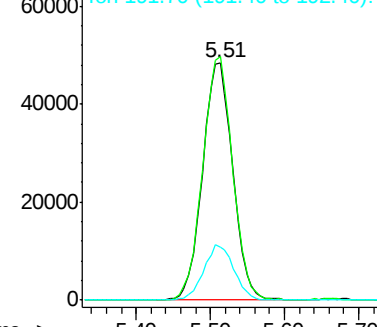
192 23.4 19.1 28.7

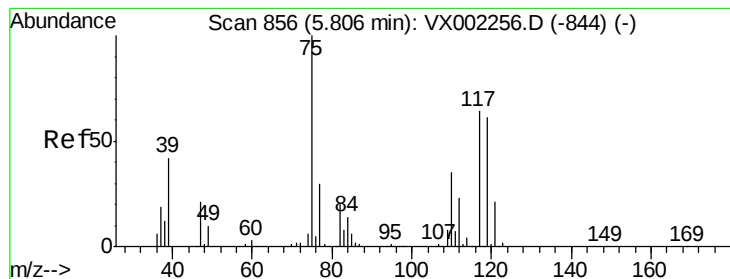


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.52 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

Instrument :

MSVOA_X

ClientSampleId :

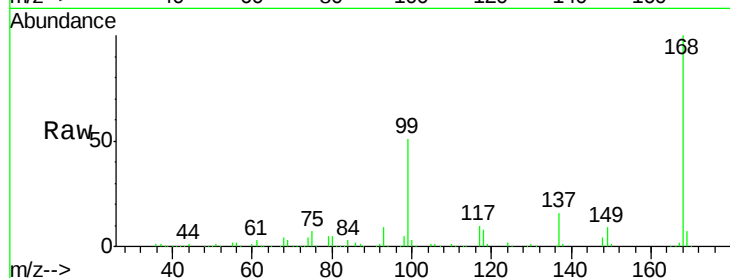
Tot Ion: 75 Resp: 18671

Ion Ratio Lower Upper

75 100

110 10.2 18.1 54.4#

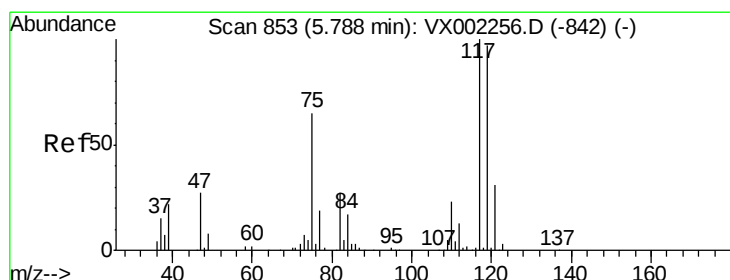
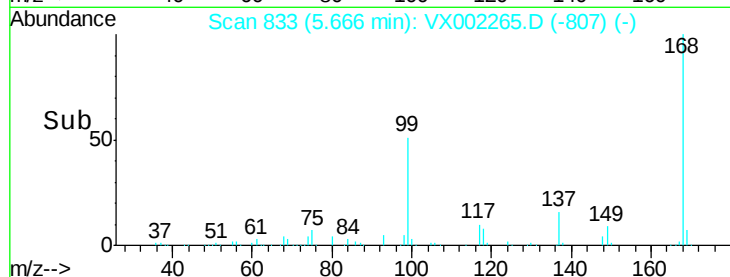
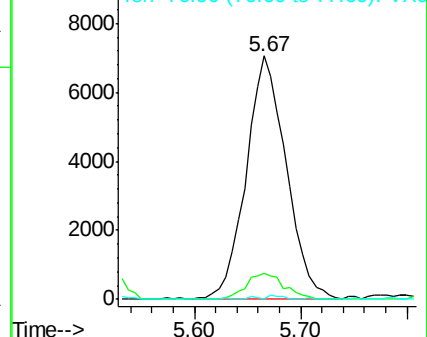
77 0.6 24.3 36.5#



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: 5.91 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

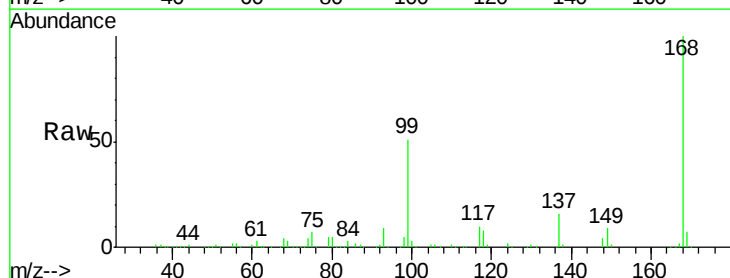
Tgt Ion:117 Resp: 25555

Ion Ratio Lower Upper

117 100

119 5.6 77.4 116.0#

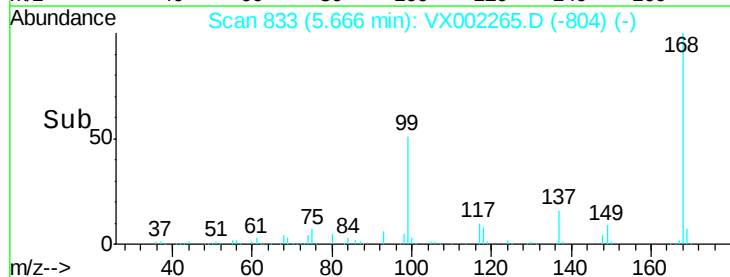
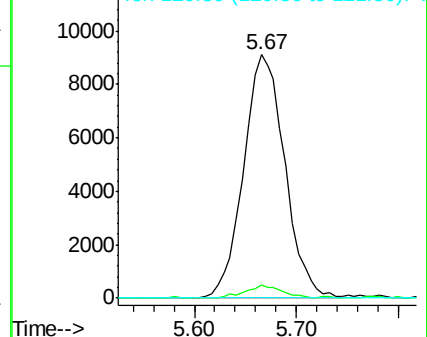
121 0.0 24.4 36.6#

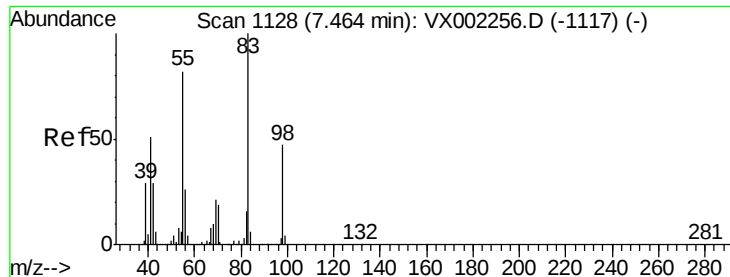


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

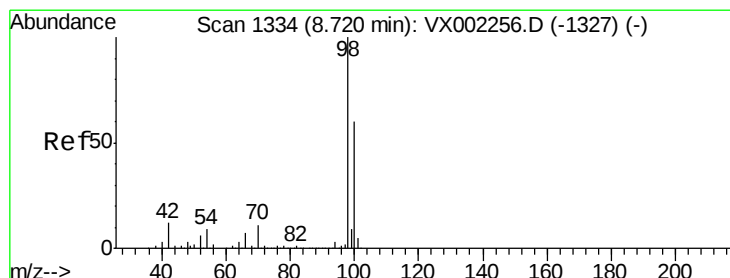
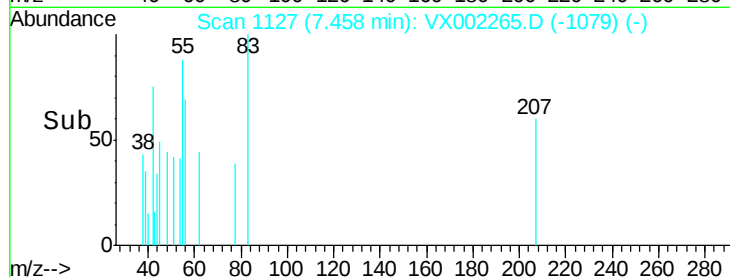
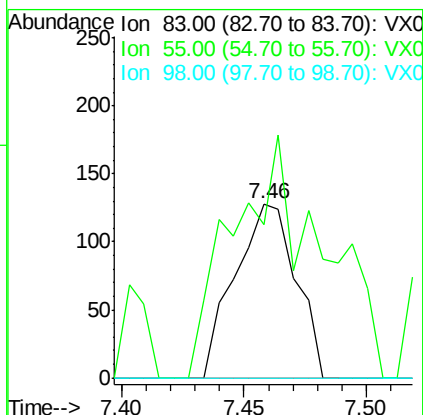
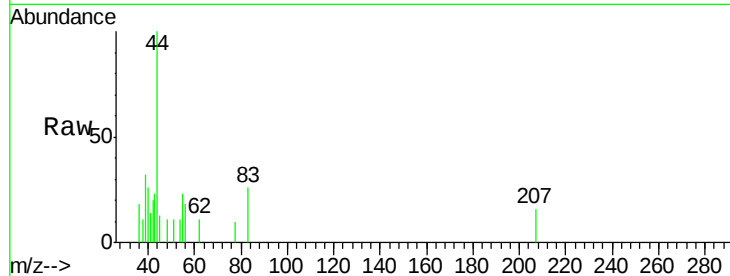




#39
Methvlcvclohexane
Concen: 0.31 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

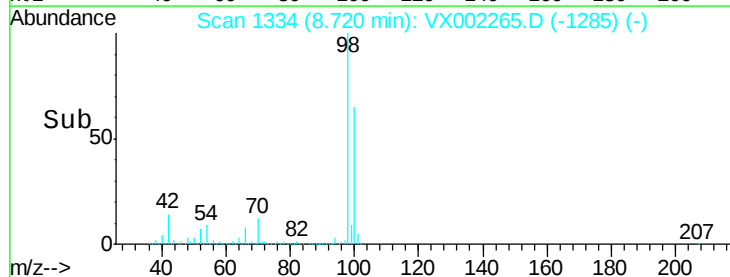
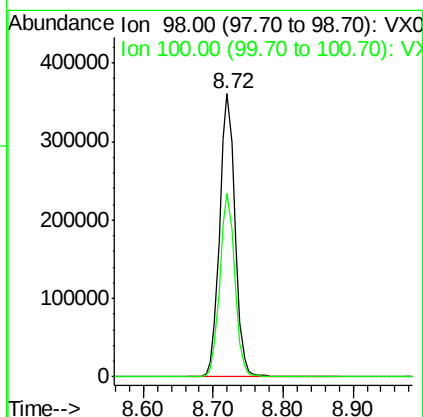
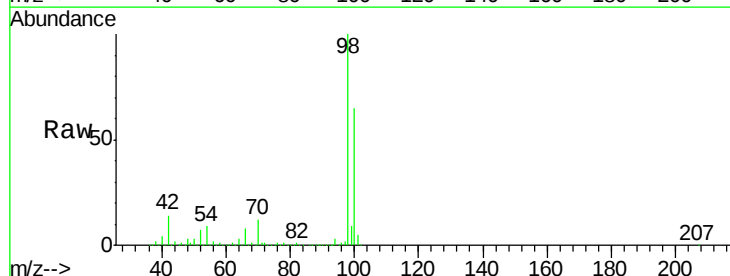
Instrument :
MSVOA_X
ClientSampled :

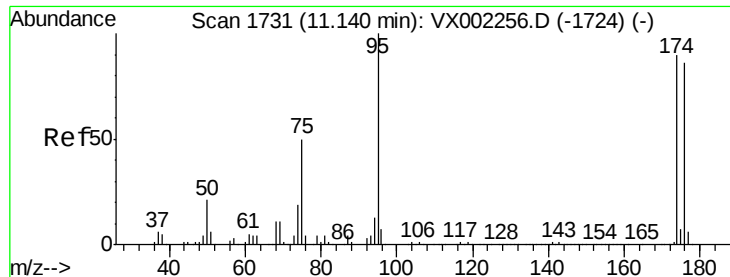
Tot Ion: 83 Resp: 221
Ion Ratio Lower Upper
83 100
55 88.3 65.4 98.0
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 46.69 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002265.D
Acq: 04 Jun 2018 17:27

Tgt Ion: 98 Resp: 553016
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3

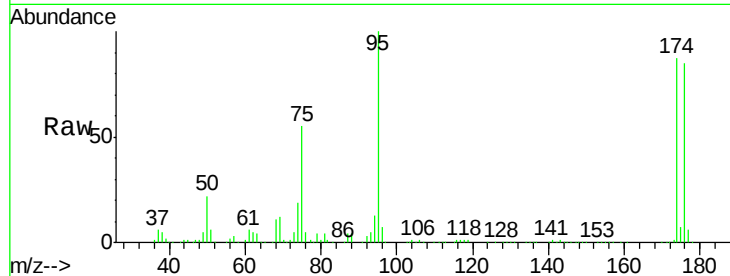




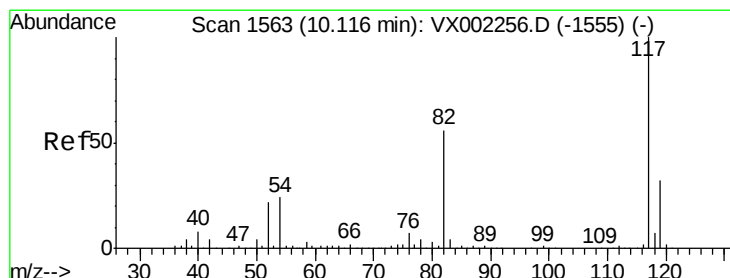
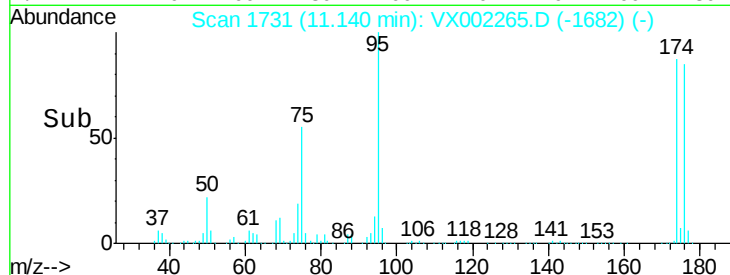
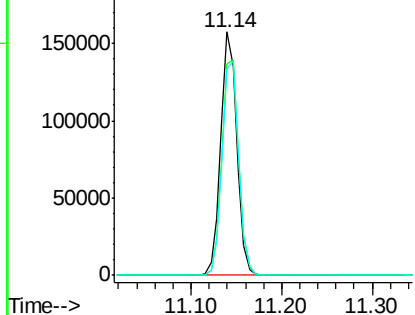
#62
 4-Bromofluorobenzene
 Concen: 42.81 ug/l
 RT: 11.14 min Scan# 1731
 Delta R.T. -0.00 min
 Lab File: VX002265.D
 Acq: 04 Jun 2018 17:27

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 95 Resp: 195542
 Ion Ratio Lower Upper
 95 100
 174 92.2 0.0 187.4
 176 90.7 0.0 181.0

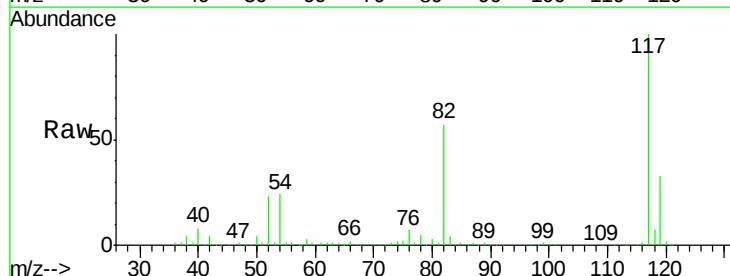


Abundance Ion 94.90 (94.60 to 95.60): VX0
 Ion 173.80 (173.50 to 174.50): V
 Ion 175.80 (175.50 to 176.50): V

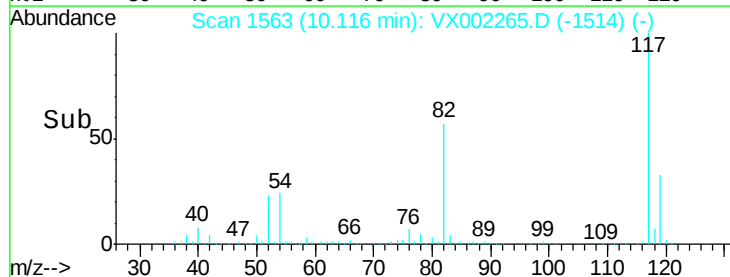
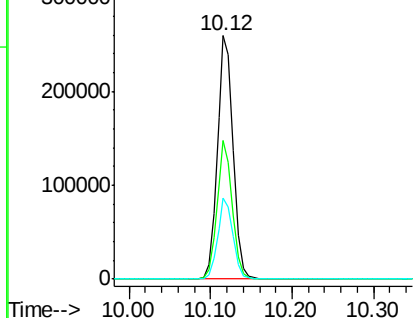


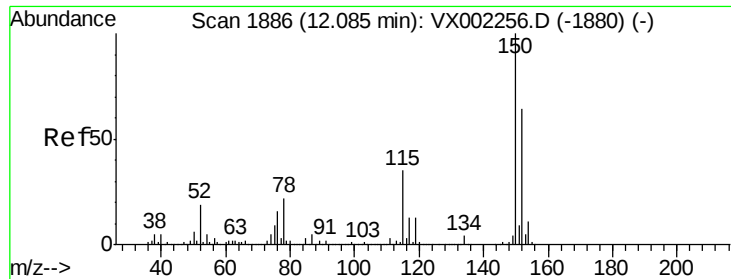
#63
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 10.12 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VX002265.D
 Acq: 04 Jun 2018 17:27

Tgt Ion: 117 Resp: 352233
 Ion Ratio Lower Upper
 117 100
 82 57.2 45.0 67.4
 119 33.0 25.8 38.6



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





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

Instrument :

MSVOA_X

ClientSampleId :

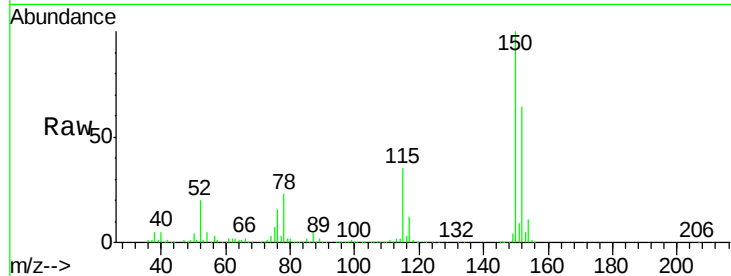
Tot Ion:152 Resp: 194497

Ion Ratio Lower Upper

152 100

115 56.2 40.1 120.2

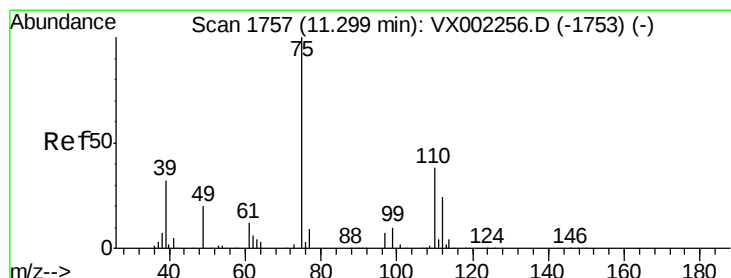
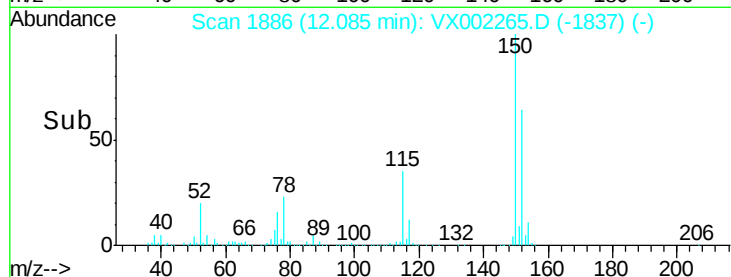
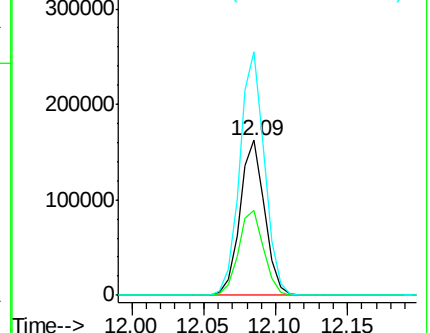
150 157.4 0.0 347.2



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: 24.52 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002265.D

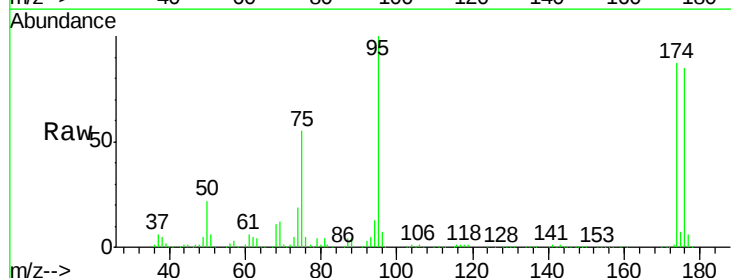
Acq: 04 Jun 2018 17:27

Tgt Ion: 75 Resp: 104636

Ion Ratio Lower Upper

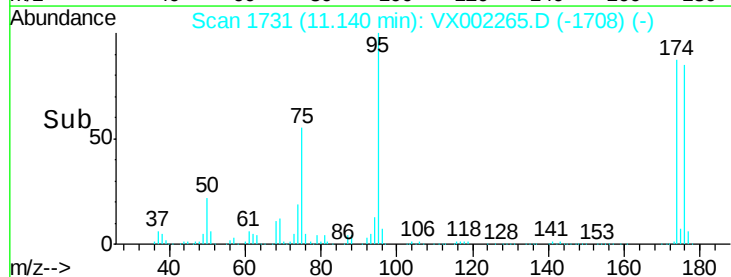
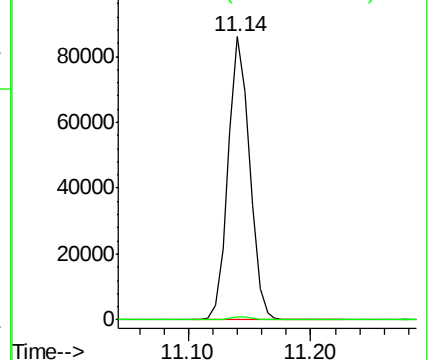
75 100

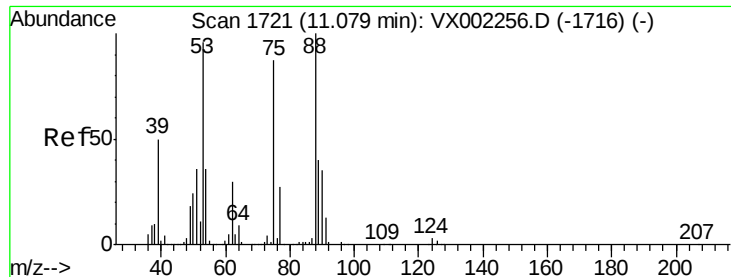
77 1.2 22.8 68.3#



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: 85.94 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002265.D

Acq: 04 Jun 2018 17:27

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 104636

Ion Ratio Lower Upper

75 100

53 0.0 86.8 130.2#

89 0.0 38.2 57.2#

