

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\
 Data File : VX002423.D
 Acq On : 09 Jun 2018 16:09
 Operator : JC/MD
 Sample : J3396-03
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 11 04:06:55 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	218135	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	316658	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	291225	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	158883	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	151453	48.45	ug/l	0.00
Spiked Amount			Recovery	=	96.90%	
35) Dibromofluoromethane	5.51	113	115631	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
50) Toluene-d8	8.72	98	453681	47.53	ug/l	0.00
Spiked Amount			Recovery	=	95.06%	
62) 4-Bromofluorobenzene	11.14	95	156880	42.62	ug/l	0.00
Spiked Amount			Recovery	=	85.24%	

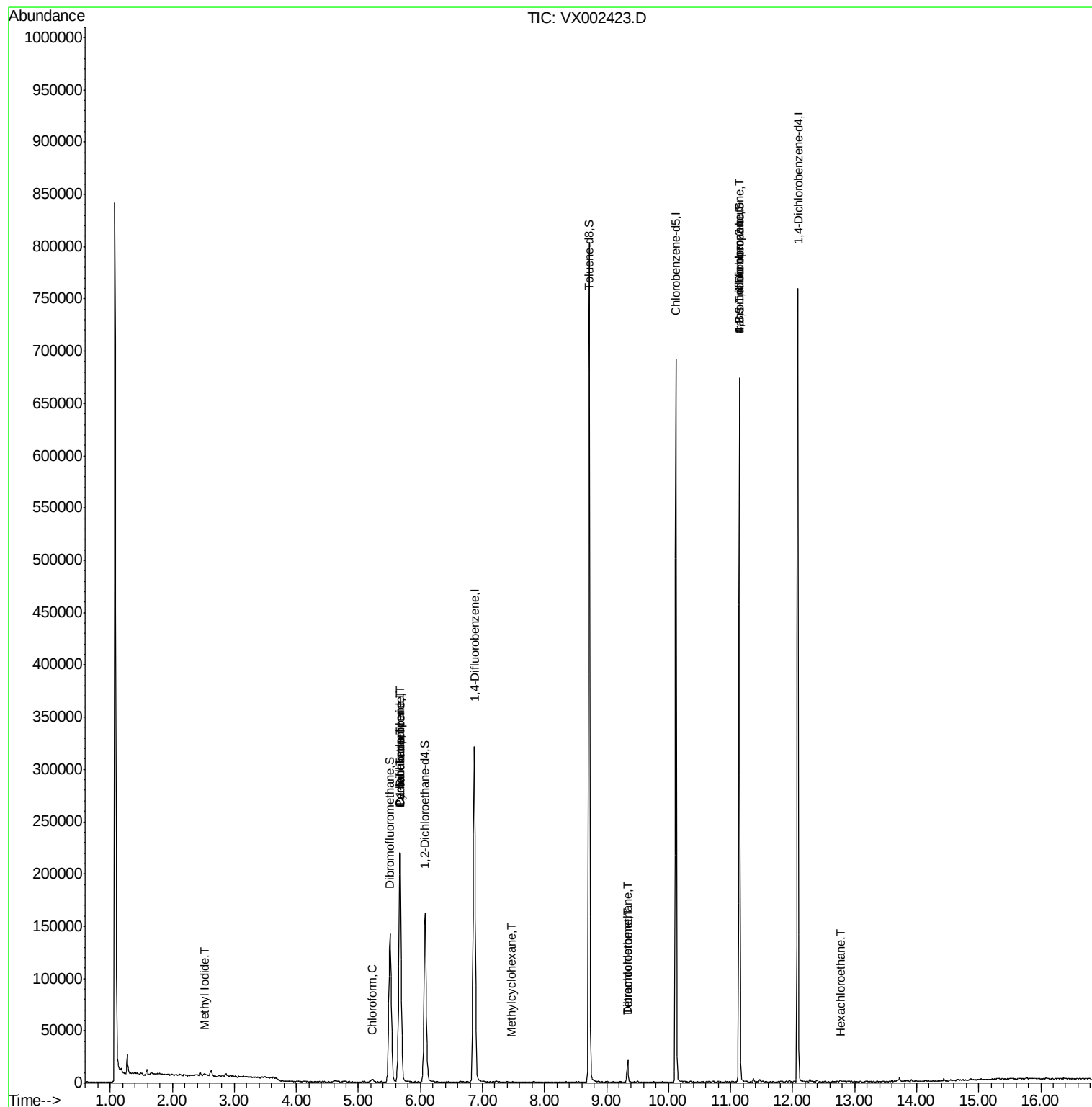
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	463	Below Cal	#	70
5) Bromomethane	1.66	94	1537	Below Cal	#	80
8) Diethyl Ether	2.19	74	19	Below Cal	#	1
10) Methyl Iodide	2.53	142	2057	0.62	ug/l	91
11) Tert butyl alcohol	3.07	59	170	Below Cal	#	1
13) Acrolein	2.30	56	64	Below Cal	#	14
15) Acrylonitrile	3.13	53	185	Below Cal	#	51
16) Acetone	2.45	43	3299	Below Cal	#	84
18) Methyl Acetate	2.78	43	264	Below Cal	#	55
19) Methyl tert-butyl Ether	3.21	73	20	Below Cal	#	54
20) Methylene Chloride	2.86	84	908	Below Cal	#	66
22) Diisopropyl ether	3.85	45	20	Below Cal	#	39
28) Bromochloromethane	5.01	49	19	Below Cal	#	13
30) Chloroform	5.22	83	2889	0.60	ug/l	97
31) Cyclohexane	5.67	56	4876	1.24	ug/l	33
36) 1,1-Dichloropropene	5.67	75	15887	4.77	ug/l	50
38) Carbon Tetrachloride	5.67	117	20335	5.84	ug/l	16
39) Methylcyclohexane	7.46	83	81	0.28	ug/l	16
60) Dibromochloromethane	9.34	129	3412	1.27	ug/l	11
64) Tetrachloroethene	9.34	164	3972	1.32	ug/l	94
76) 1,2,3-Trichloropropane	11.14	75	84171	24.14	ug/l	33
81) trans-1,4-Dichloro-2-buten	11.14	75	84171	84.63	ug/l	7
90) Hexachloroethane	12.76	117	393	0.25	ug/l	1

(#) = 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# 834

Delta R.T. -0.00 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

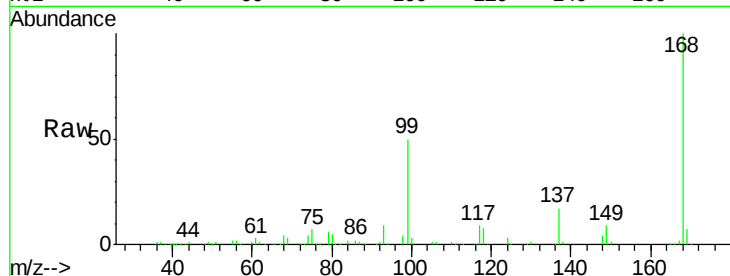
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 218135

Ion Ratio Lower Upper

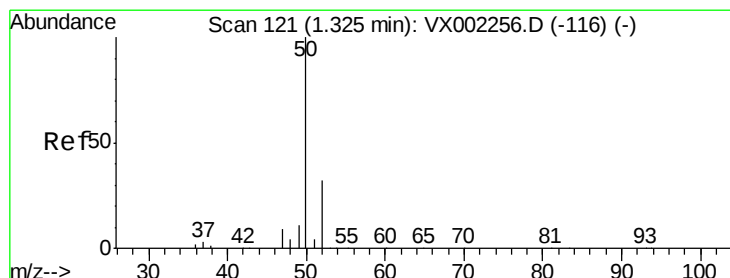
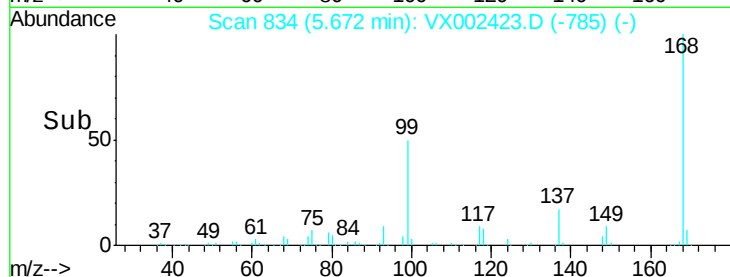
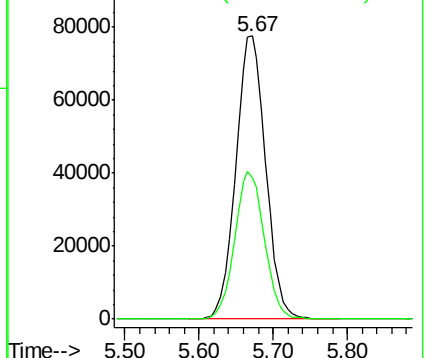
168 100

99 49.8 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: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002423.D

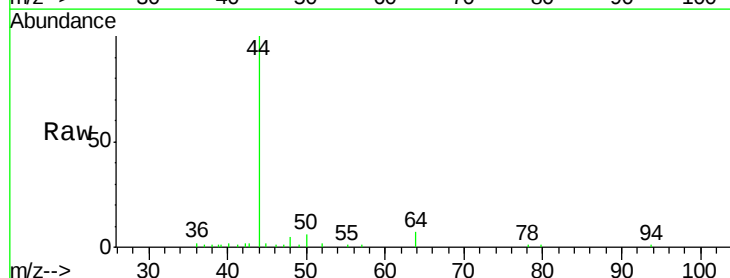
Acq: 09 Jun 2018 16:09

Tgt Ion: 50 Resp: 463

Ion Ratio Lower Upper

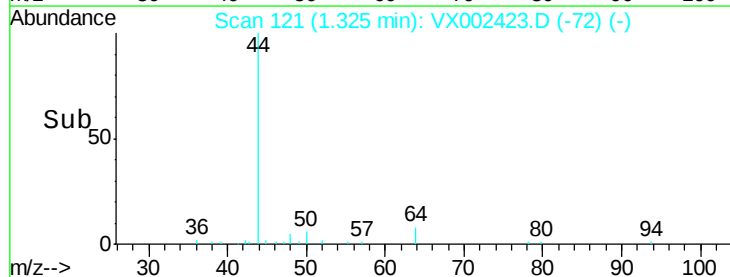
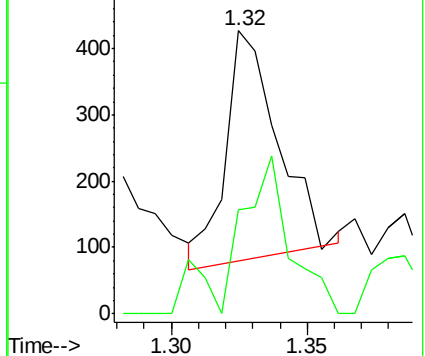
50 100

52 49.1 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: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

Instrument :

MSVOA_X

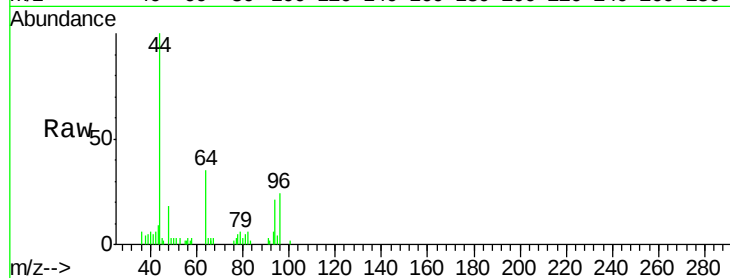
ClientSampleId :

Tot Ion: 94 Resp: 1537

Ion Ratio Lower Upper

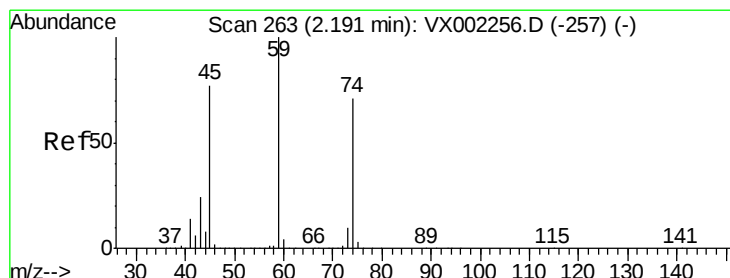
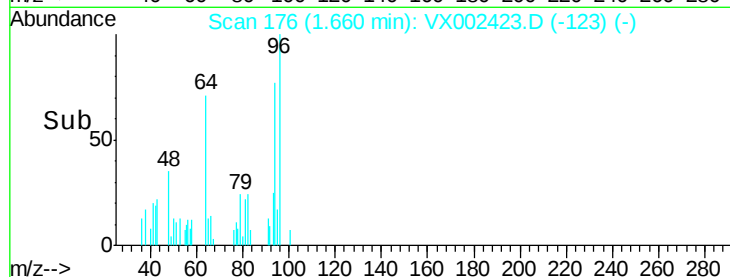
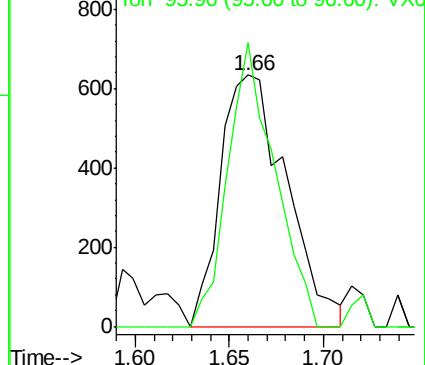
94 100

96 112.8 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: VX002423.D

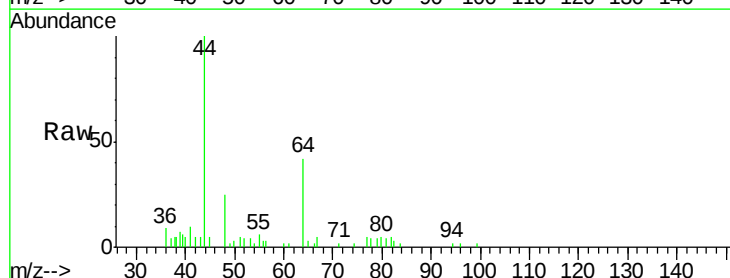
Acq: 09 Jun 2018 16:09

Tgt Ion: 74 Resp: 19

Ion Ratio Lower Upper

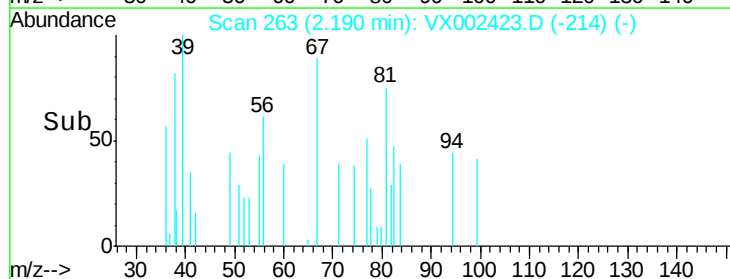
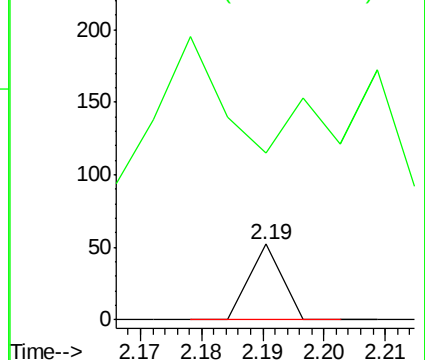
74 100

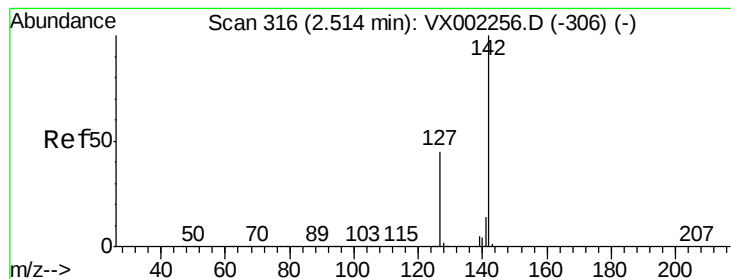
45 410.5 53.1 159.4#



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#10

Methyl Iodide

Concen: 0.62 ug/l

RT: 2.53 min Scan# 318

Delta R.T. 0.01 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

Instrument :

MSVOA_X

ClientSampled :

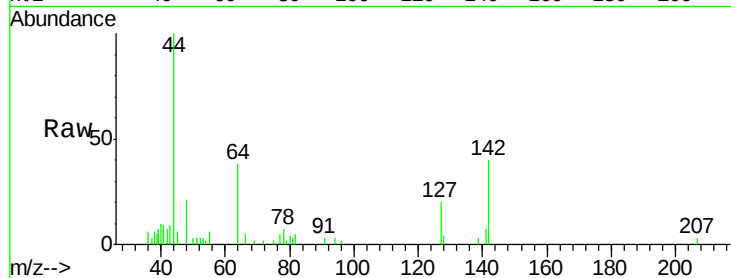
Tot Ion:142 Resp: 2057

Ion Ratio Lower Upper

142 100

127 50.9 36.6 55.0

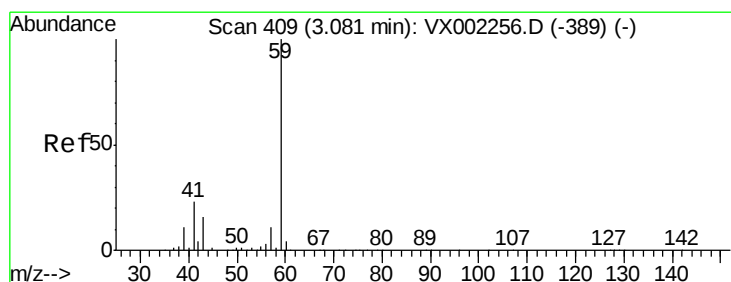
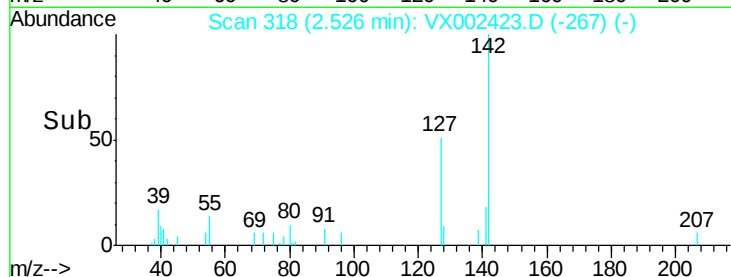
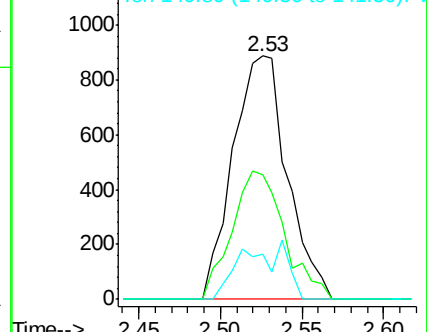
141 19.3 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: Below Cal

RT: 3.07 min Scan# 408

Delta R.T. -0.01 min

Lab File: VX002423.D

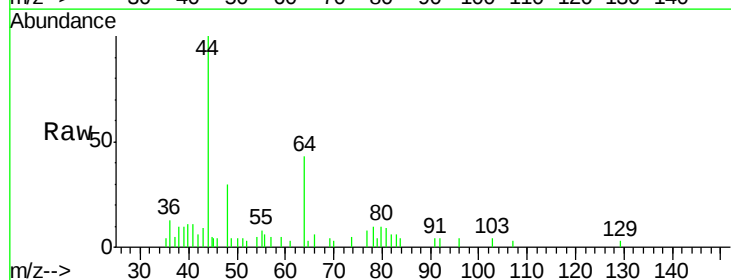
Acq: 09 Jun 2018 16:09

Tgt Ion: 59 Resp: 170

Ion Ratio Lower Upper

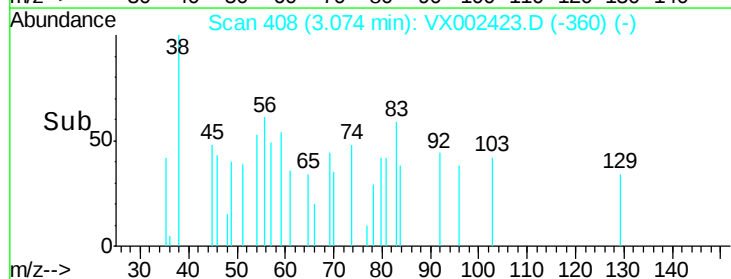
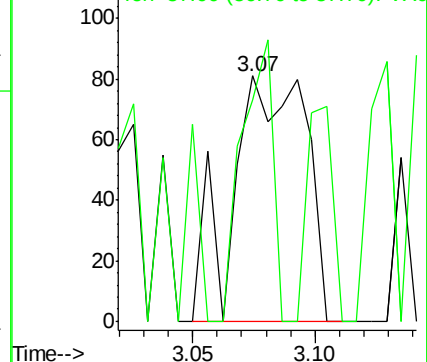
59 100

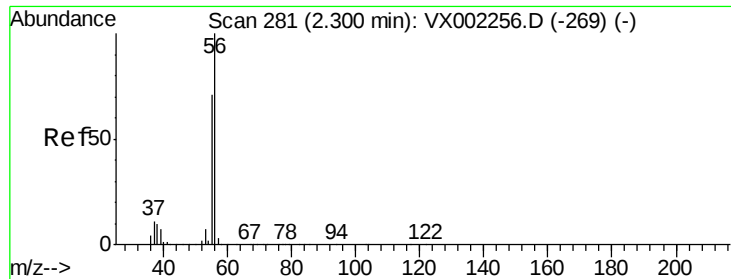
57 48.2 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.00 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

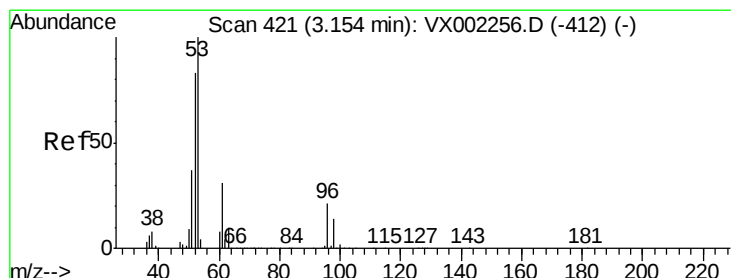
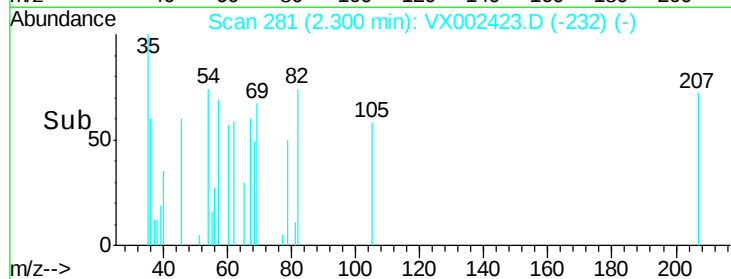
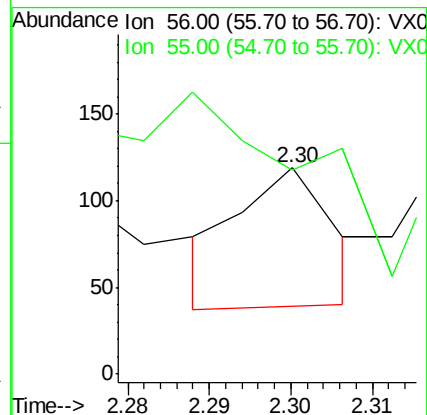
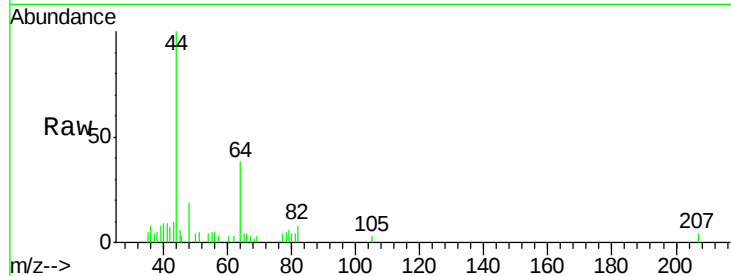
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 64

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.13 min Scan# 417

Delta R.T. -0.02 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

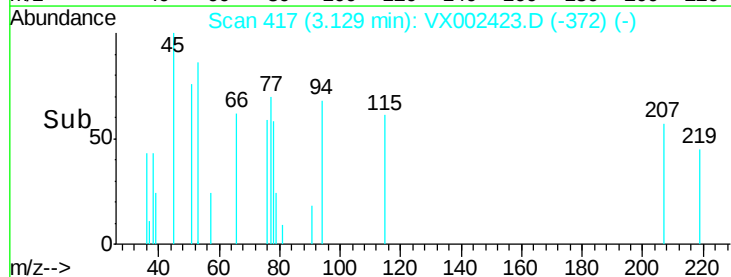
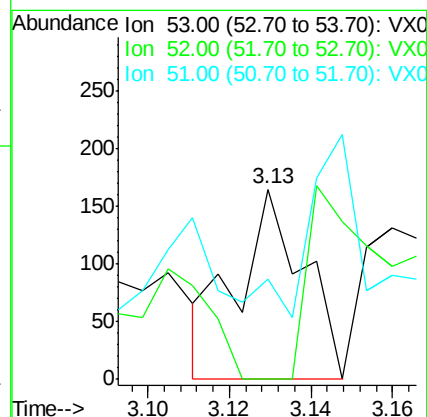
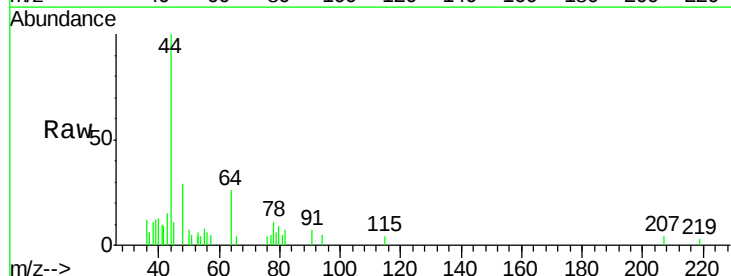
Tgt Ion: 53 Resp: 185

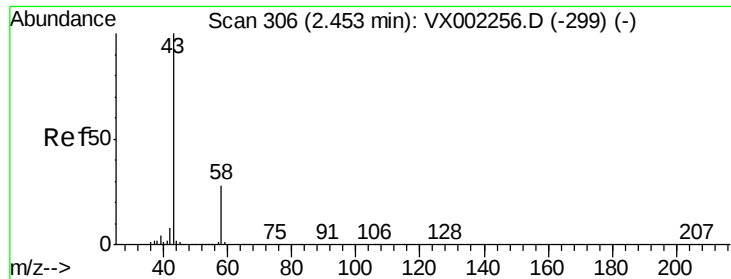
Ion Ratio Lower Upper

53 100

52 123.8 66.7 100.1#

51 72.4 29.9 44.9#

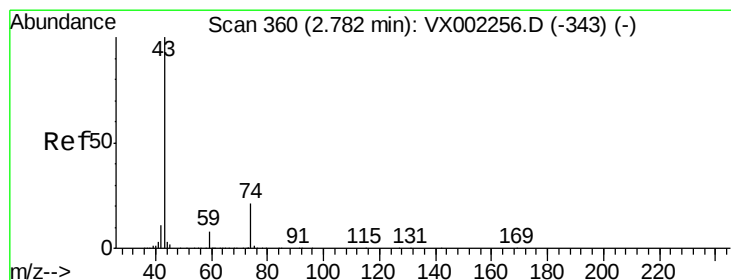
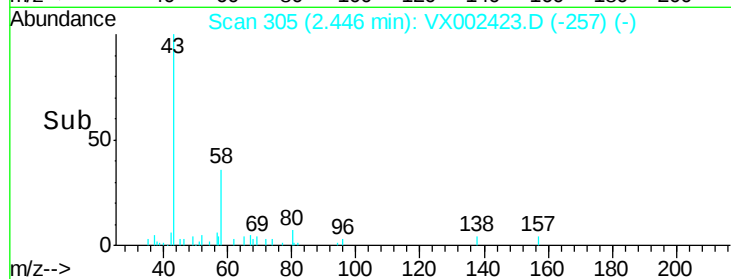
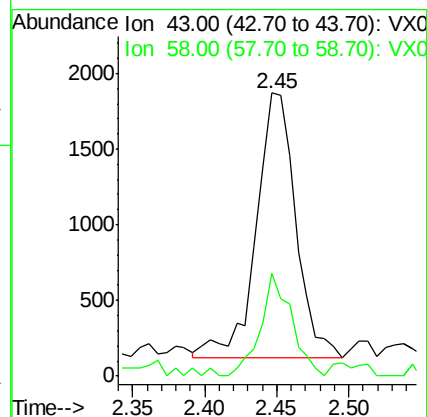
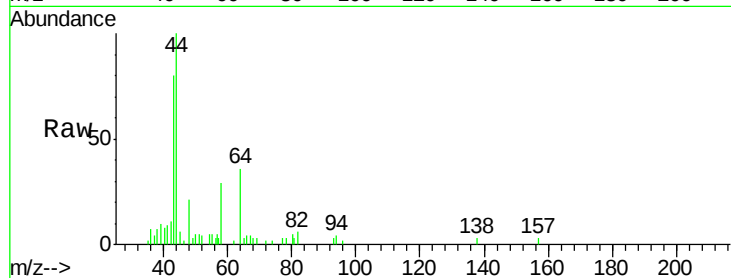




#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 305
Delta R.T. -0.01 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

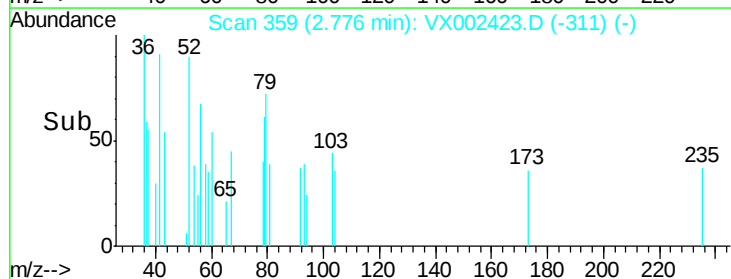
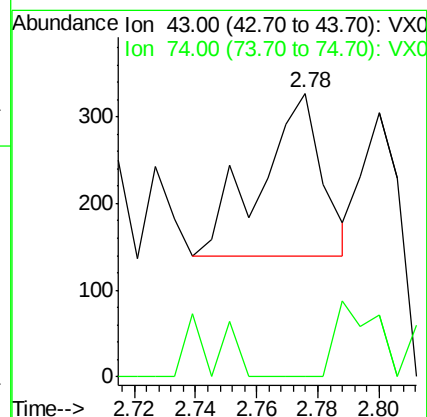
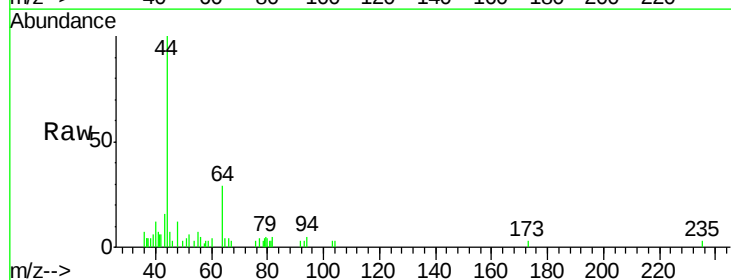
Instrument :
MSVOA_X
ClientSampled :

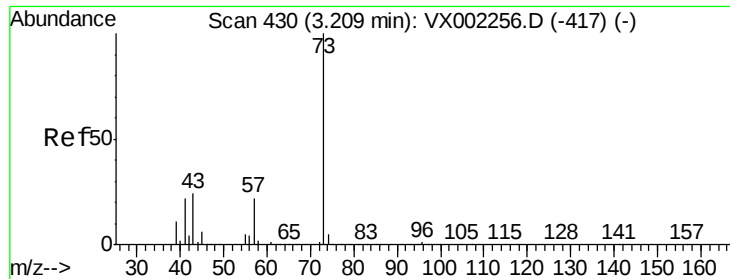
Tot Ion: 43 Resp: 3299
Ion Ratio Lower Upper
43 100
58 36.0 22.1 33.1#



#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 359
Delta R.T. -0.01 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Tgt Ion: 43 Resp: 264
Ion Ratio Lower Upper
43 100
74 0.0 16.7 25.1#

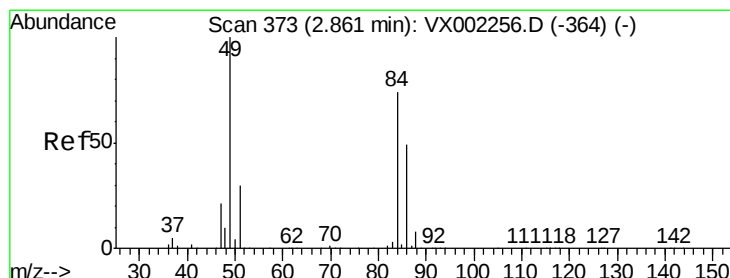
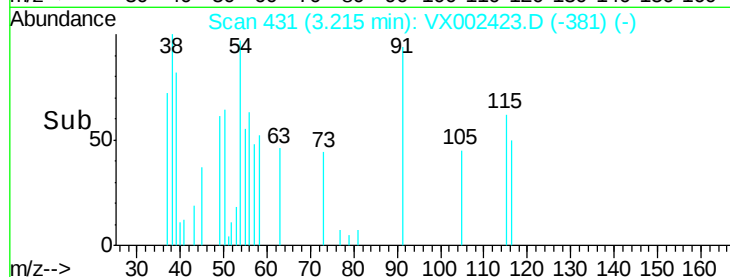
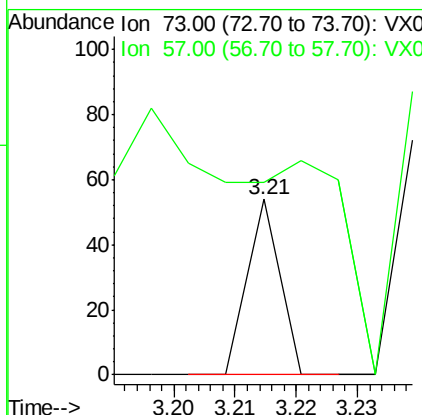
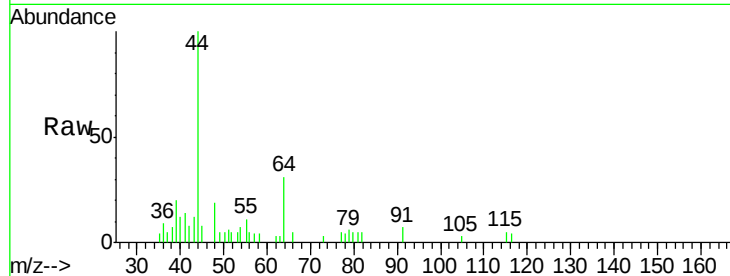




#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.21 min Scan# 431
Delta R.T. 0.01 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

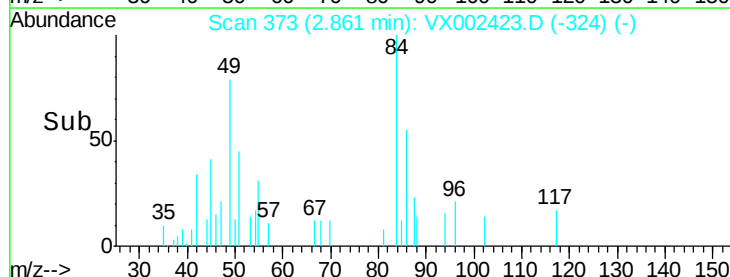
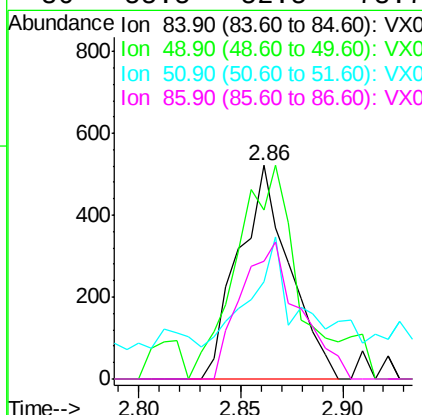
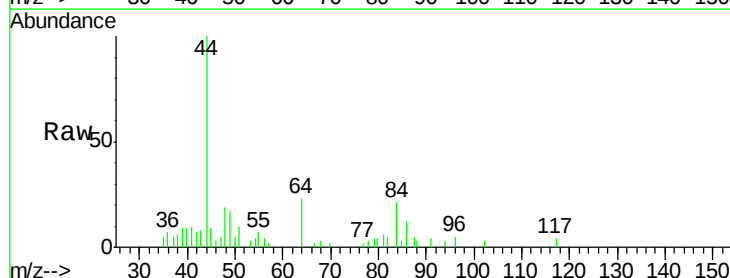
Instrument :
MSVOA_X
ClientSampled :

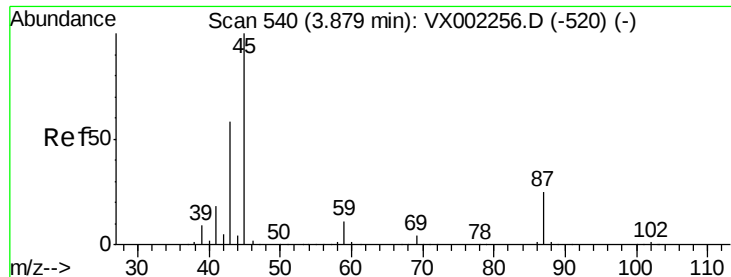
Tot Ion: 73 Resp: 20
Ion Ratio Lower Upper
73 100
57 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: Below Cal
RT: 2.86 min Scan# 373
Delta R.T. 0.00 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Tgt Ion: 84 Resp: 908
Ion Ratio Lower Upper
84 100
49 79.1 107.8 161.6#
51 25.9 32.8 49.2#
86 55.5 52.5 78.7



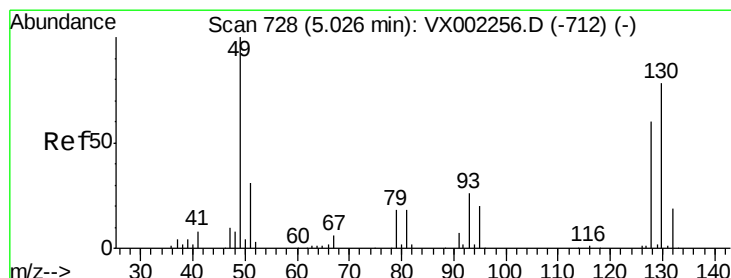
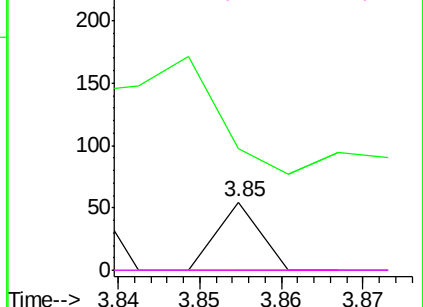
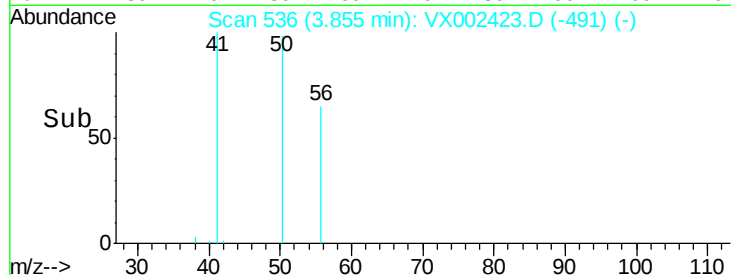
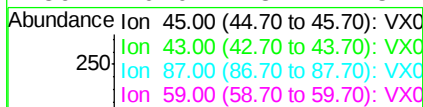
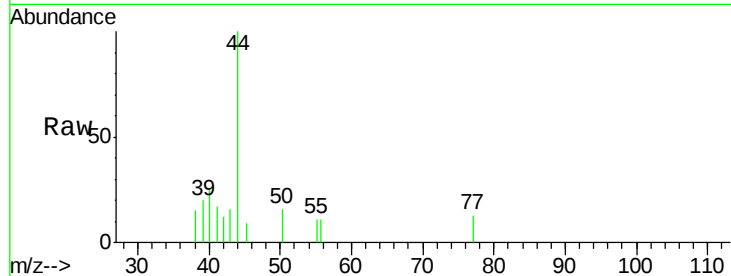


#22

Diisopropyl ether
Concen: Below Cal
RT: 3.85 min Scan# 536
Delta R.T. -0.02 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Instrument :
MSVOA_X
ClientSampled :

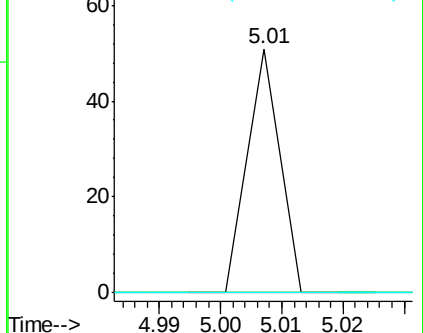
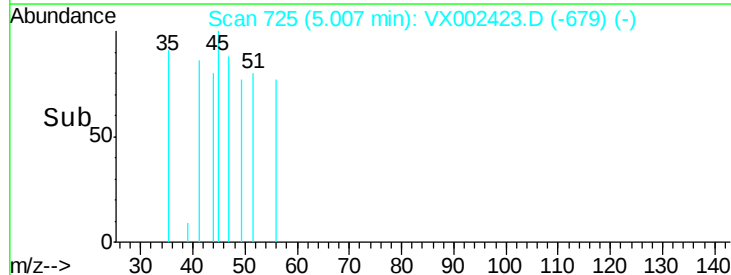
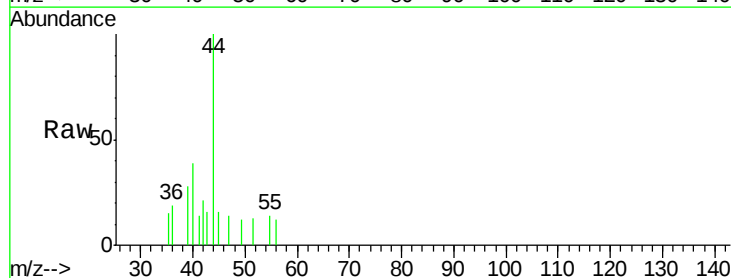
Tot Ion:	45	Resp:	20
Ion	Ratio	Lower	Upper
45	100		
43	5.5	46.8	70.2#
87	0.0	20.2	30.4#
59	0.0	8.7	13.1#

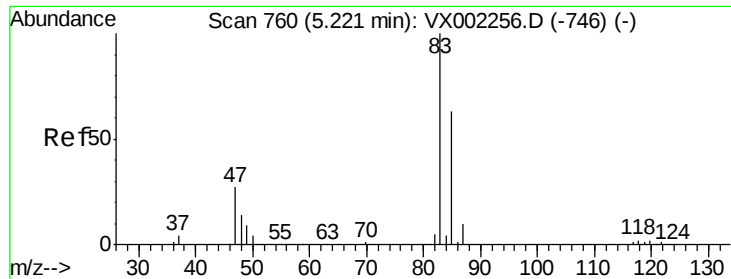


#28

Bromochloromethane
Concen: Below Cal
RT: 5.01 min Scan# 725
Delta R.T. -0.02 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Tgt Ion:	49	Resp:	19
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	0.0	61.2	91.8#

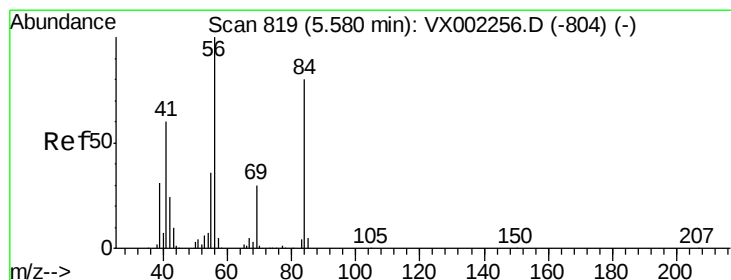
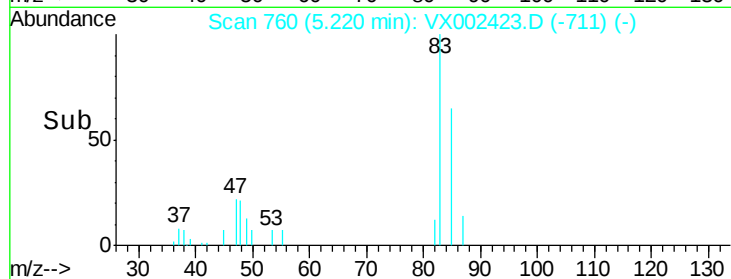
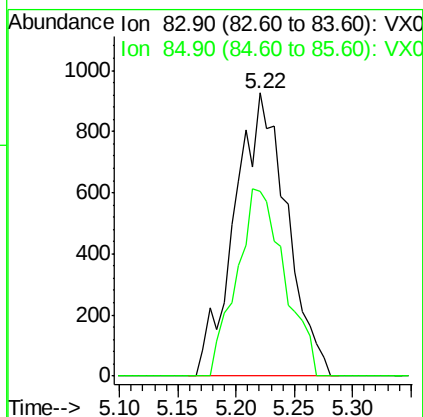
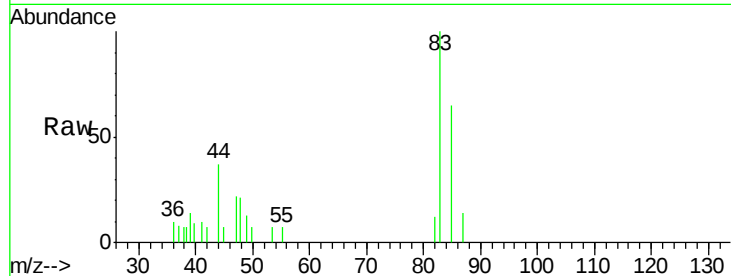




#30
Chloroform
Concen: 0.60 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.00 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

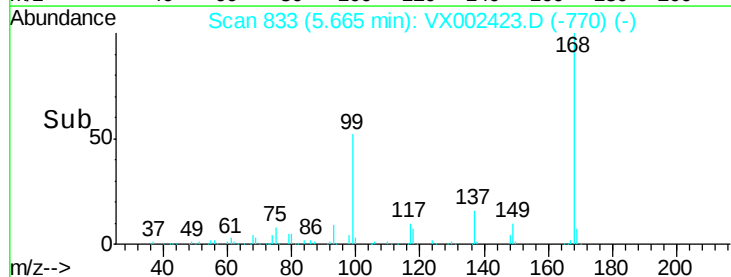
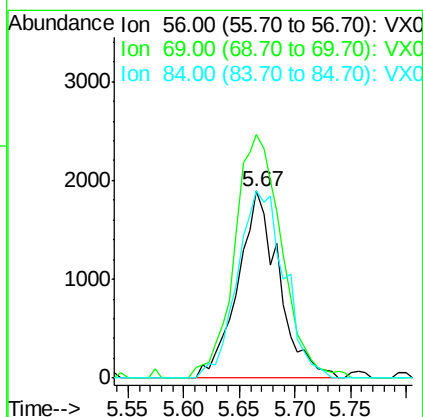
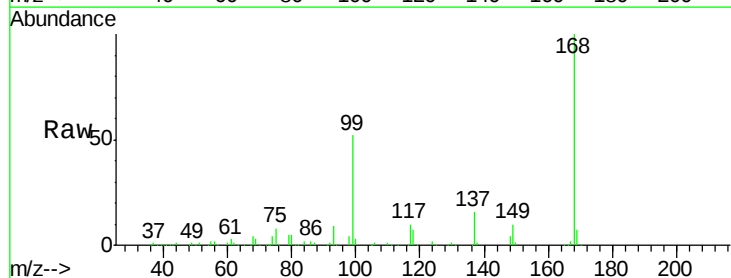
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 83 Resp: 2889
Ion Ratio Lower Upper
83 100
85 65.4 50.4 75.6



#31
Cyclohexane
Concen: 1.24 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Tgt Ion: 56 Resp: 4876
Ion Ratio Lower Upper
56 100
69 130.3 23.7 35.5#
84 100.5 64.1 96.1#

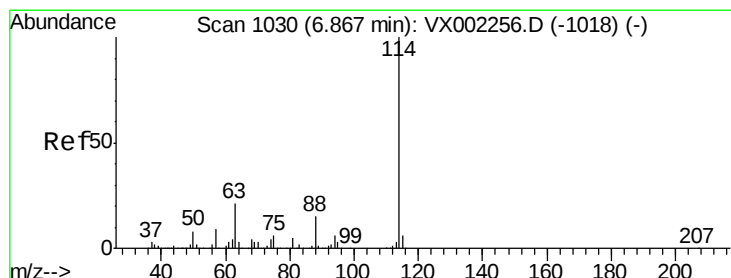
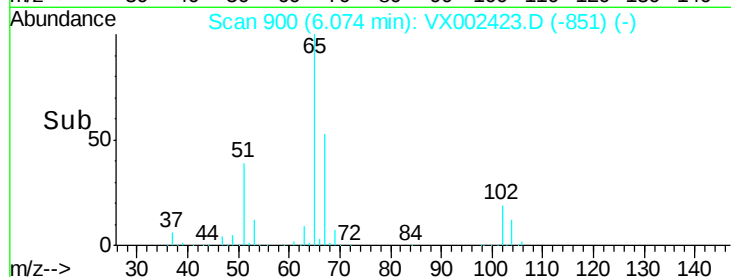
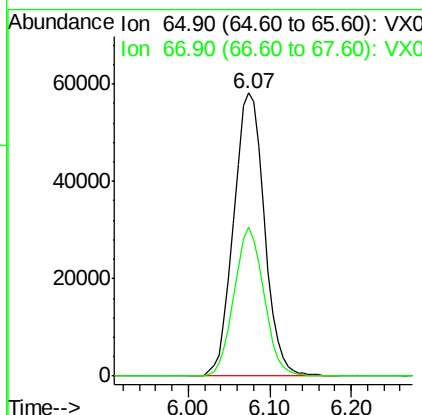
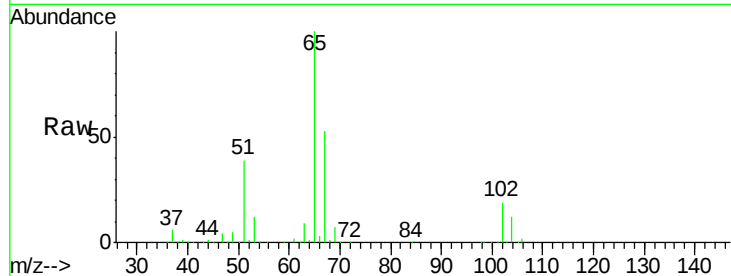




#33
 1,2-Dichloroethane-d4
 Concen: 48.45 ug/l
 RT: 6.07 min Scan# 900
 Delta R.T. -0.00 min
 Lab File: VX002423.D
 Acq: 09 Jun 2018 16:09

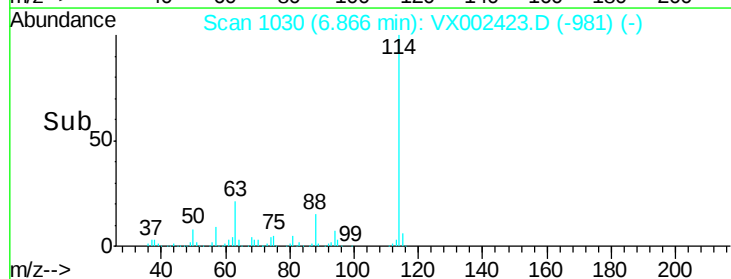
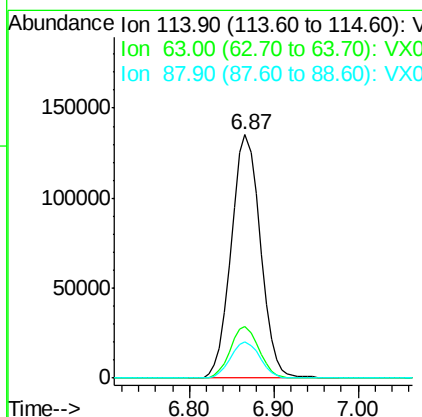
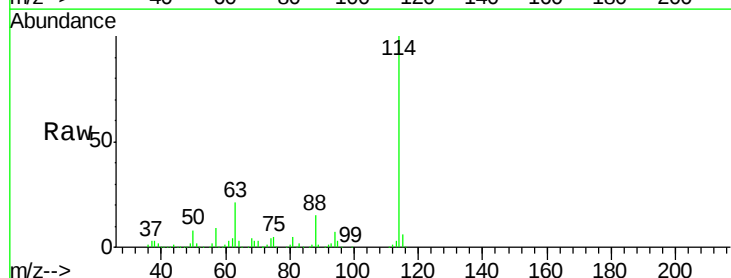
Instrument :
 MSVOA_X
 ClientSampleId :

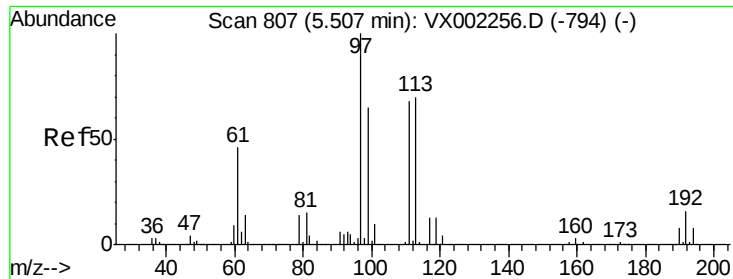
Tot Ion: 65 Resp: 151453
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. -0.00 min
 Lab File: VX002423.D
 Acq: 09 Jun 2018 16:09

Tgt Ion: 114 Resp: 316658
 Ion Ratio Lower Upper
 114 100
 63 21.2 0.0 41.4
 88 14.8 0.0 30.0





#35

Dibromofluoromethane

Concen: 46.43 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

Instrument :

MSVOA_X

ClientSampled :

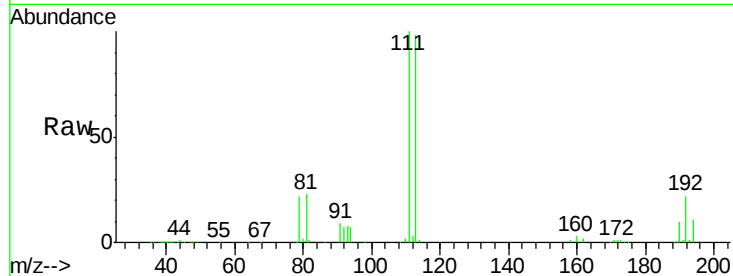
Tot Ion:113 Resp: 115631

Ion Ratio Lower Upper

113 100

111 101.6 81.4 122.0

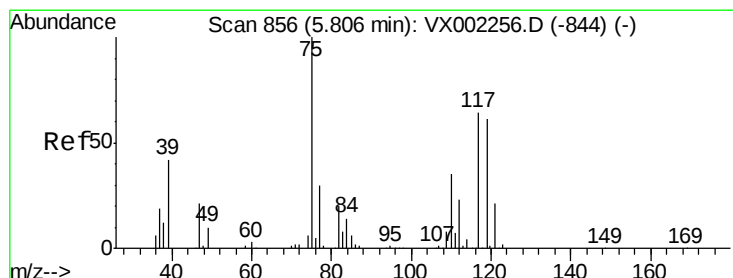
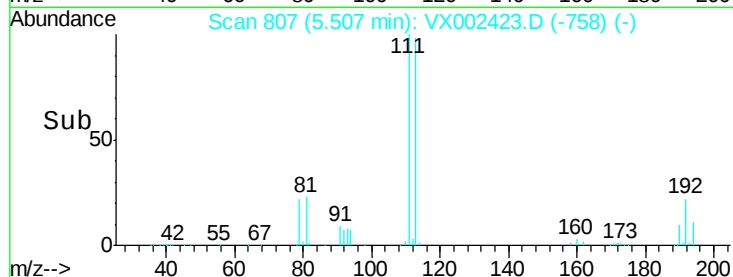
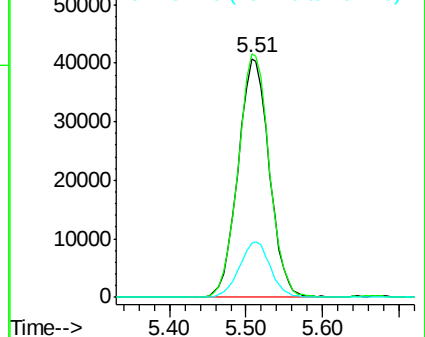
192 23.1 19.1 28.7



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: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

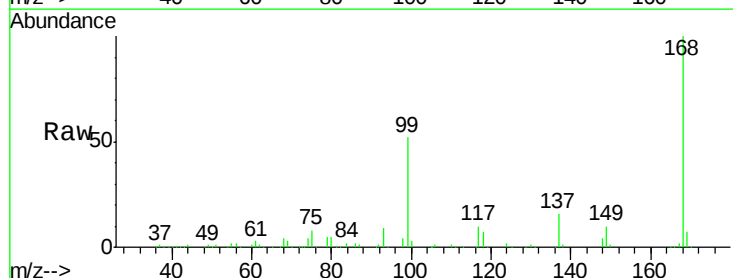
Tgt Ion: 75 Resp: 15887

Ion Ratio Lower Upper

75 100

110 8.9 18.1 54.4#

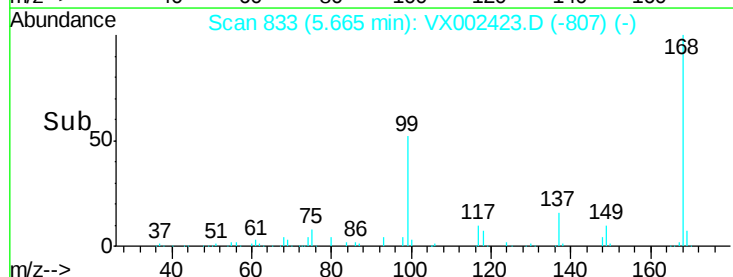
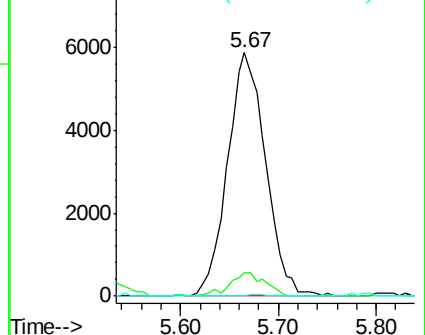
77 0.4 24.3 36.5#

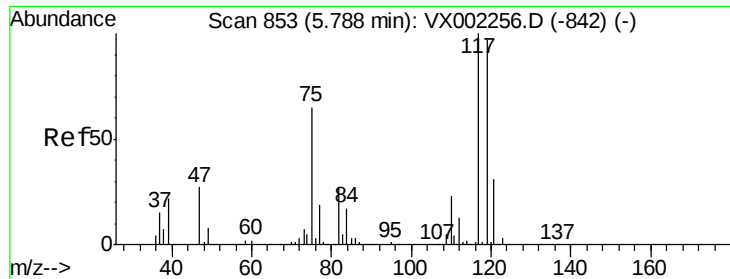


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

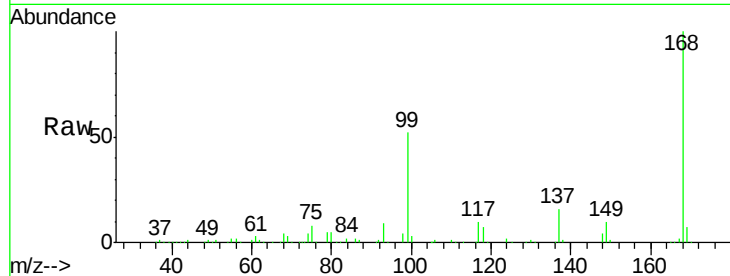




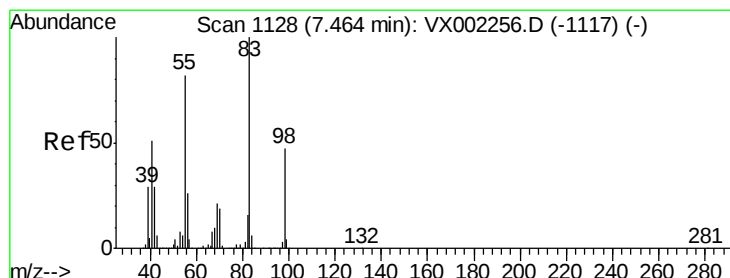
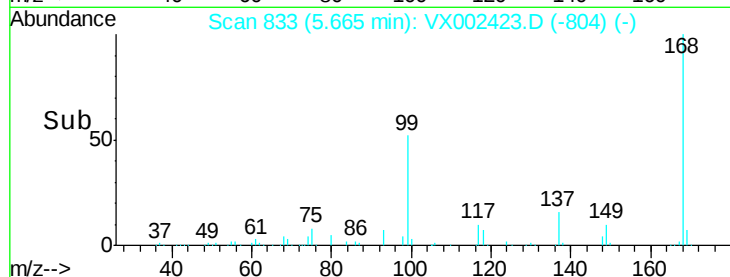
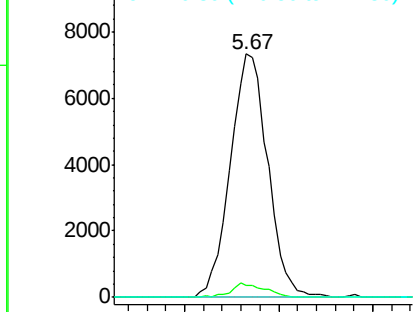
#38
Carbon Tetrachloride
Concen: 5.84 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.12 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 20335
Ion Ratio Lower Upper
117 100
119 5.1 77.4 116.0#
121 0.0 24.4 36.6#

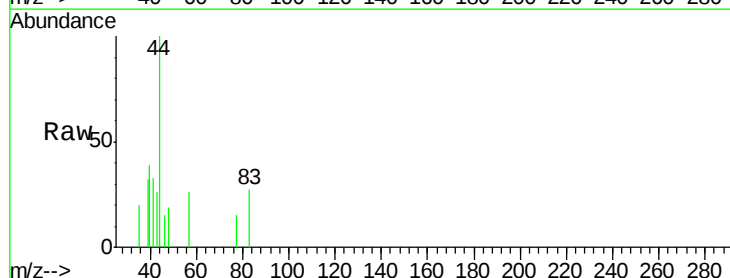


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

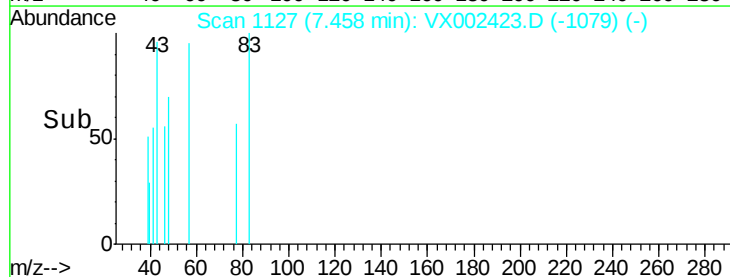
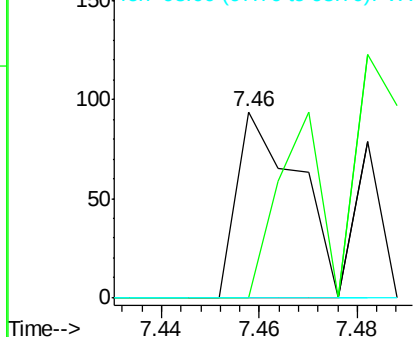


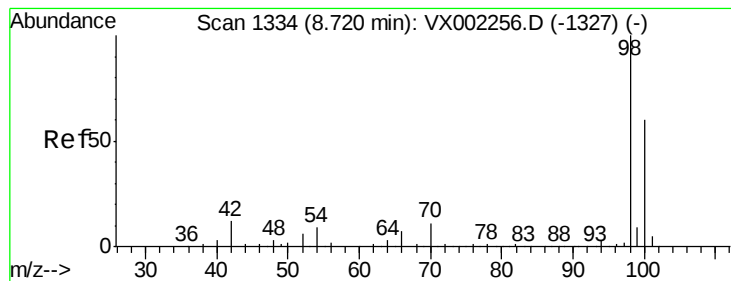
#39
Methylcyclohexane
Concen: 0.28 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.01 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Tgt Ion: 83 Resp: 81
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





#50

Toluene-d8

Concen: 47.53 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.00 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

Instrument :

MSVOA_X

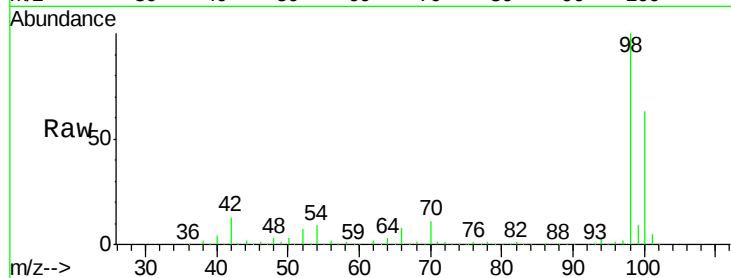
ClientSampleId :

Tot Ion: 98 Resp: 453681

Ion Ratio Lower Upper

98 100

100 63.4 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX002256.D (-1327) (-)

Ion 100.00 (99.70 to 100.70): VX002256.D (-1327) (-)

8.72

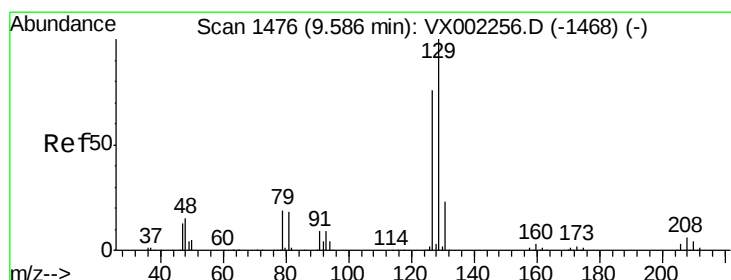
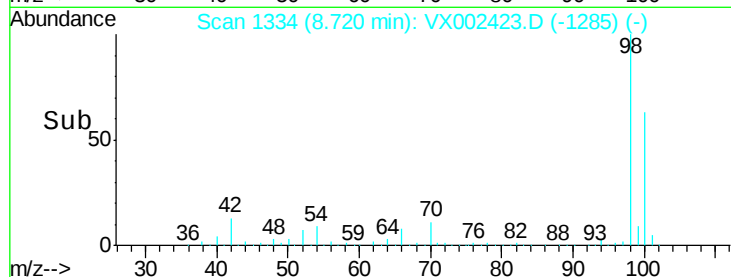
300000

200000

100000

0

Time-->



#60

Dibromochloromethane

Concen: 1.27 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.25 min

Lab File: VX002423.D

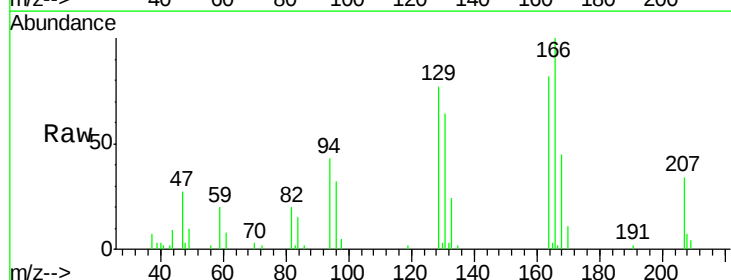
Acq: 09 Jun 2018 16:09

Tgt Ion:129 Resp: 3412

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): VX002256.D (-1468) (-)

Ion 126.80 (126.50 to 127.50): VX002256.D (-1468) (-)

9.34

2500

2000

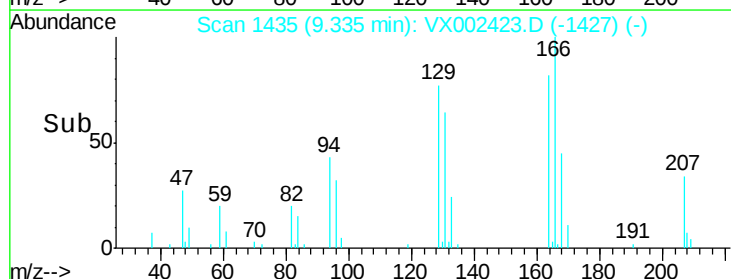
1500

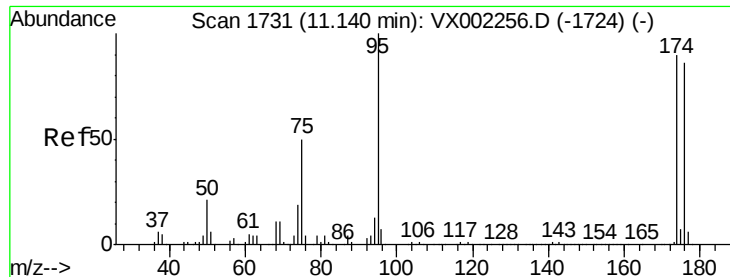
1000

500

0

Time-->

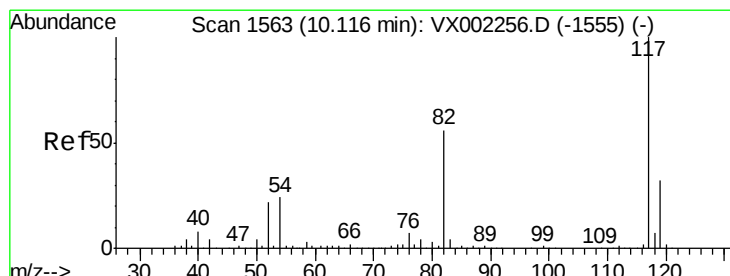
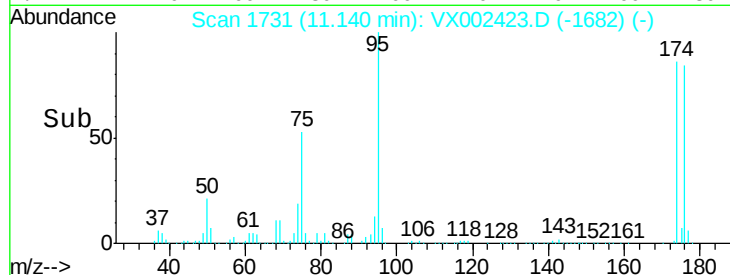
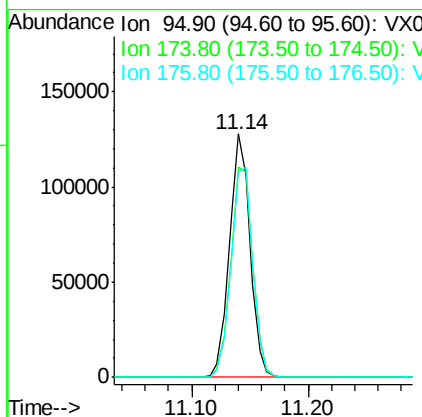
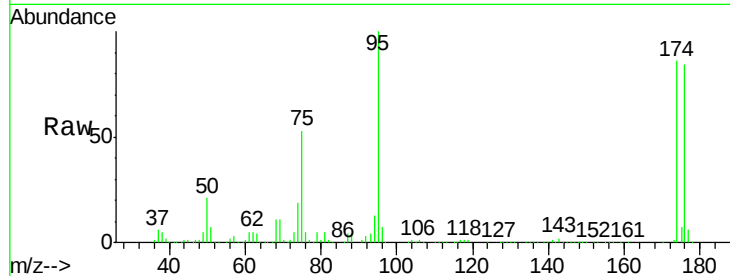




#62
4-Bromofluorobenzene
Concen: 42.62 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

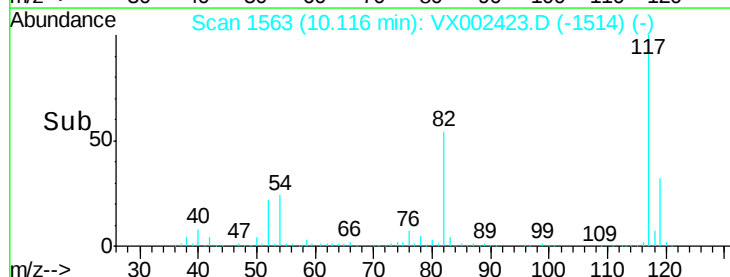
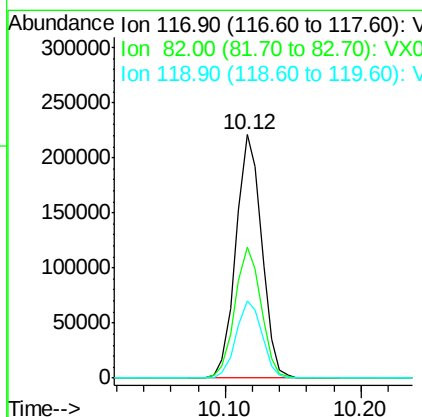
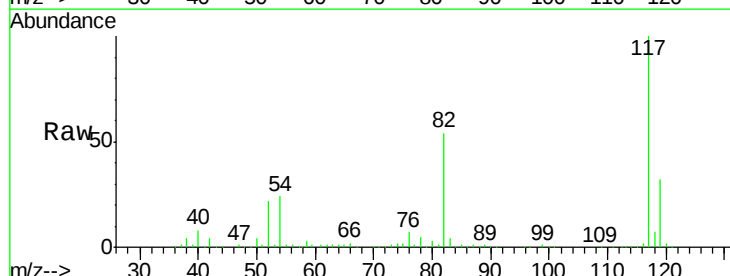
Instrument :
MSVOA_X
ClientSampleId :

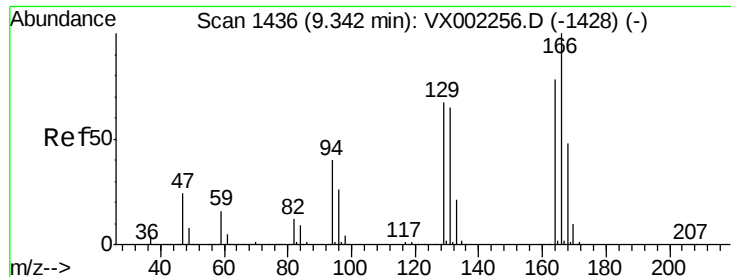
Tot Ion: 95 Resp: 156880
Ion Ratio Lower Upper
95 100
174 92.8 0.0 187.4
176 91.6 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Tgt Ion: 117 Resp: 291225
Ion Ratio Lower Upper
117 100
82 53.7 45.0 67.4
119 31.9 25.8 38.6

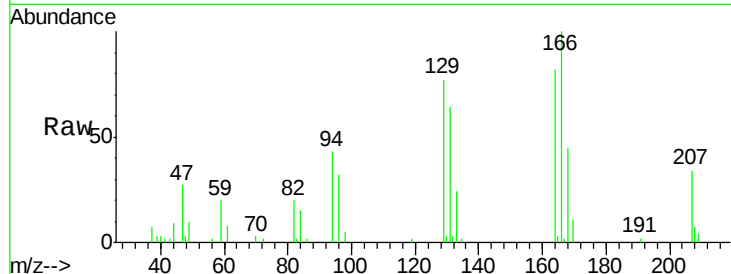




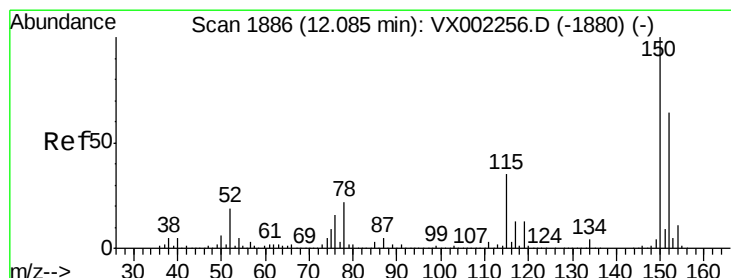
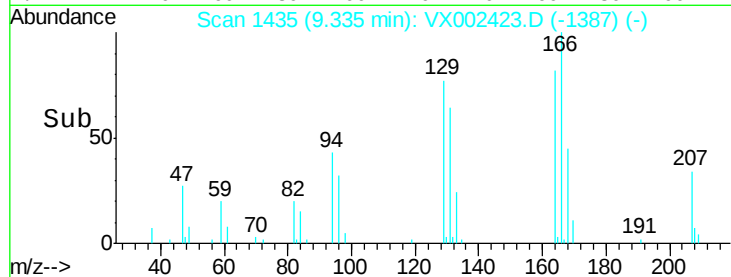
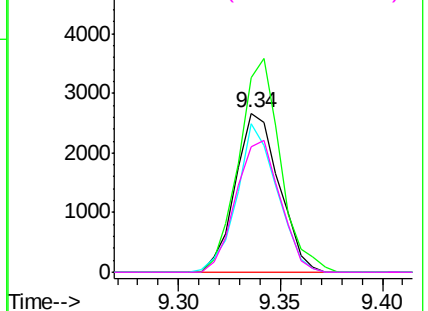
#64
Tetrachloroethene
Concen: 1.32 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.01 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:164 Resp: 3972
Ion Ratio Lower Upper
164 100
166 122.0 102.9 154.3
129 93.5 68.6 102.8
131 78.5 66.8 100.2

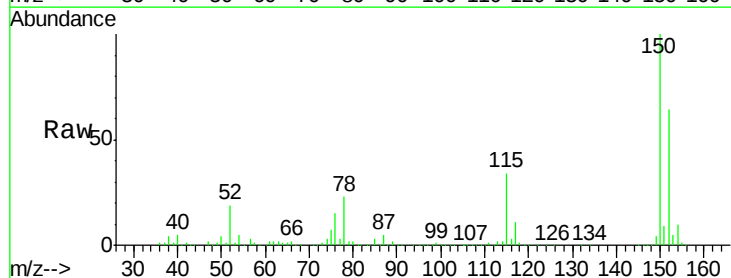


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

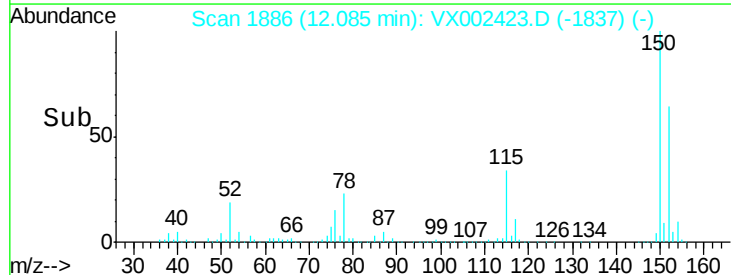
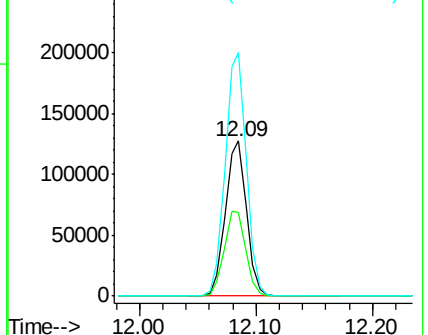


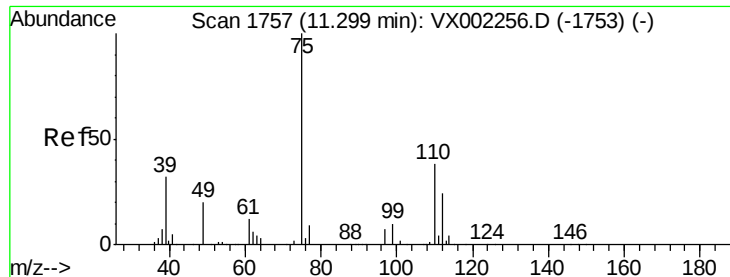
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX002423.D
Acq: 09 Jun 2018 16:09

Tgt Ion:152 Resp: 158883
Ion Ratio Lower Upper
152 100
115 56.0 40.1 120.2
150 157.5 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: 24.14 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

Instrument :

MSVOA_X

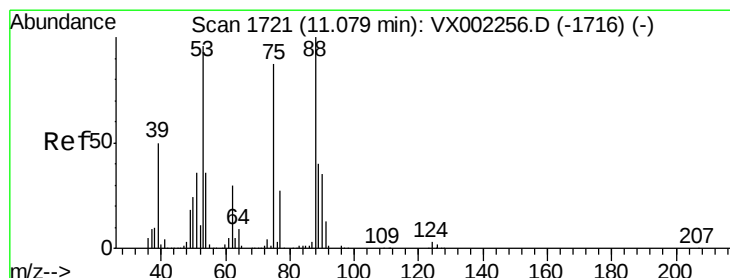
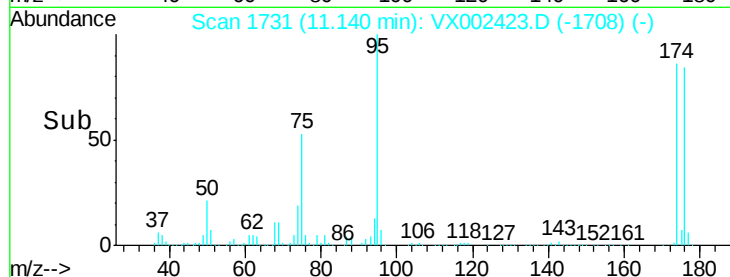
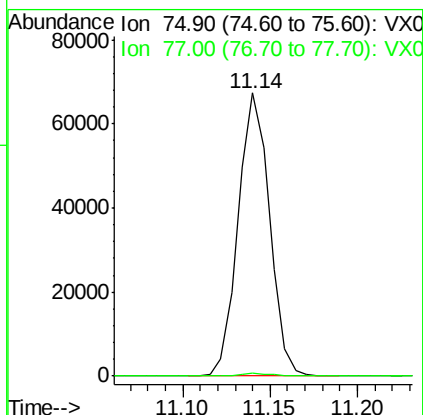
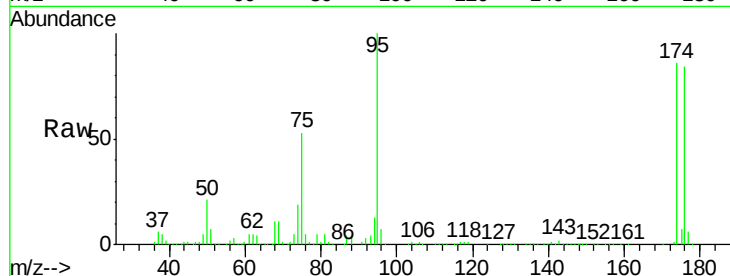
ClientSampleId :

Tot Ion: 75 Resp: 84171

Ion Ratio Lower Upper

75 100

77 1.2 22.8 68.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 84.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

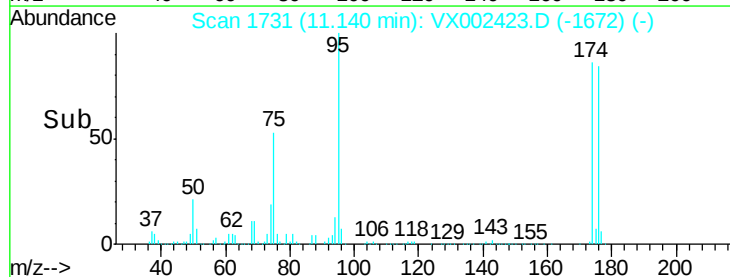
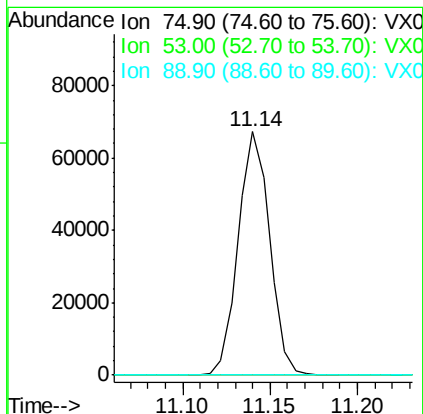
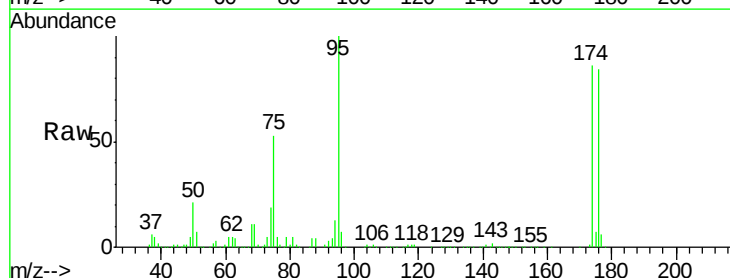
Tgt Ion: 75 Resp: 84171

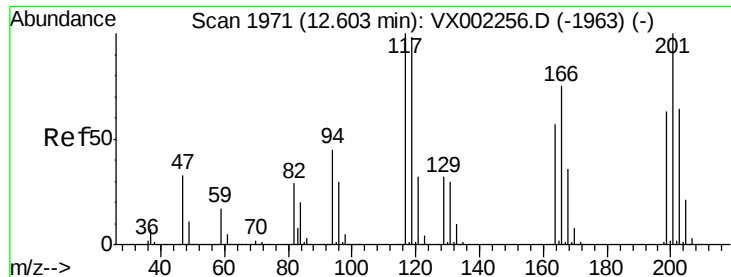
Ion Ratio Lower Upper

75 100

53 0.1 86.8 130.2#

89 0.0 38.2 57.2#





#90

Hexachloroethane

Concen: 0.25 ug/l

RT: 12.76 min Scan# 1997

Delta R.T. 0.16 min

Lab File: VX002423.D

Acq: 09 Jun 2018 16:09

Instrument :

MSVOA_X

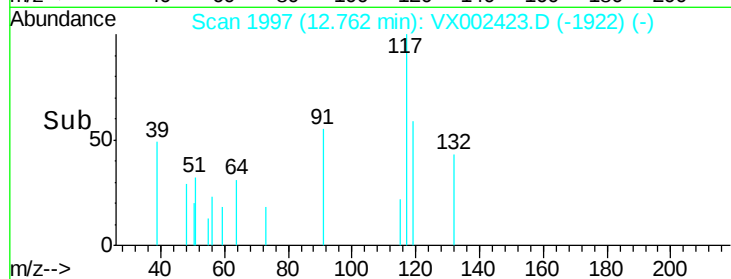
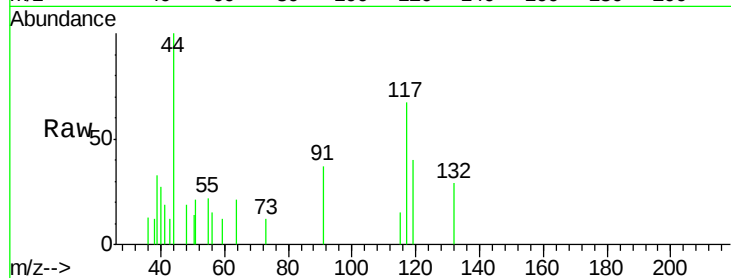
ClientSampleId :

Tot Ion:117 Resp: 393

Ion Ratio Lower Upper

117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

