

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX060918\
 Data File : VX002427.D
 Acq On : 09 Jun 2018 17:56
 Operator : JC/MD
 Sample : J3396-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 11 04:08:29 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	206153	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	300891	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	266835	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	146888	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	141031	47.68	ug/l	0.00
Spiked Amount			Recovery	=	95.36%	
35) Dibromofluoromethane	5.51	113	109072	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
50) Toluene-d8	8.72	98	423519	46.70	ug/l	0.00
Spiked Amount			Recovery	=	93.40%	
62) 4-Bromofluorobenzene	11.14	95	142165	40.65	ug/l	0.00
Spiked Amount			Recovery	=	81.30%	

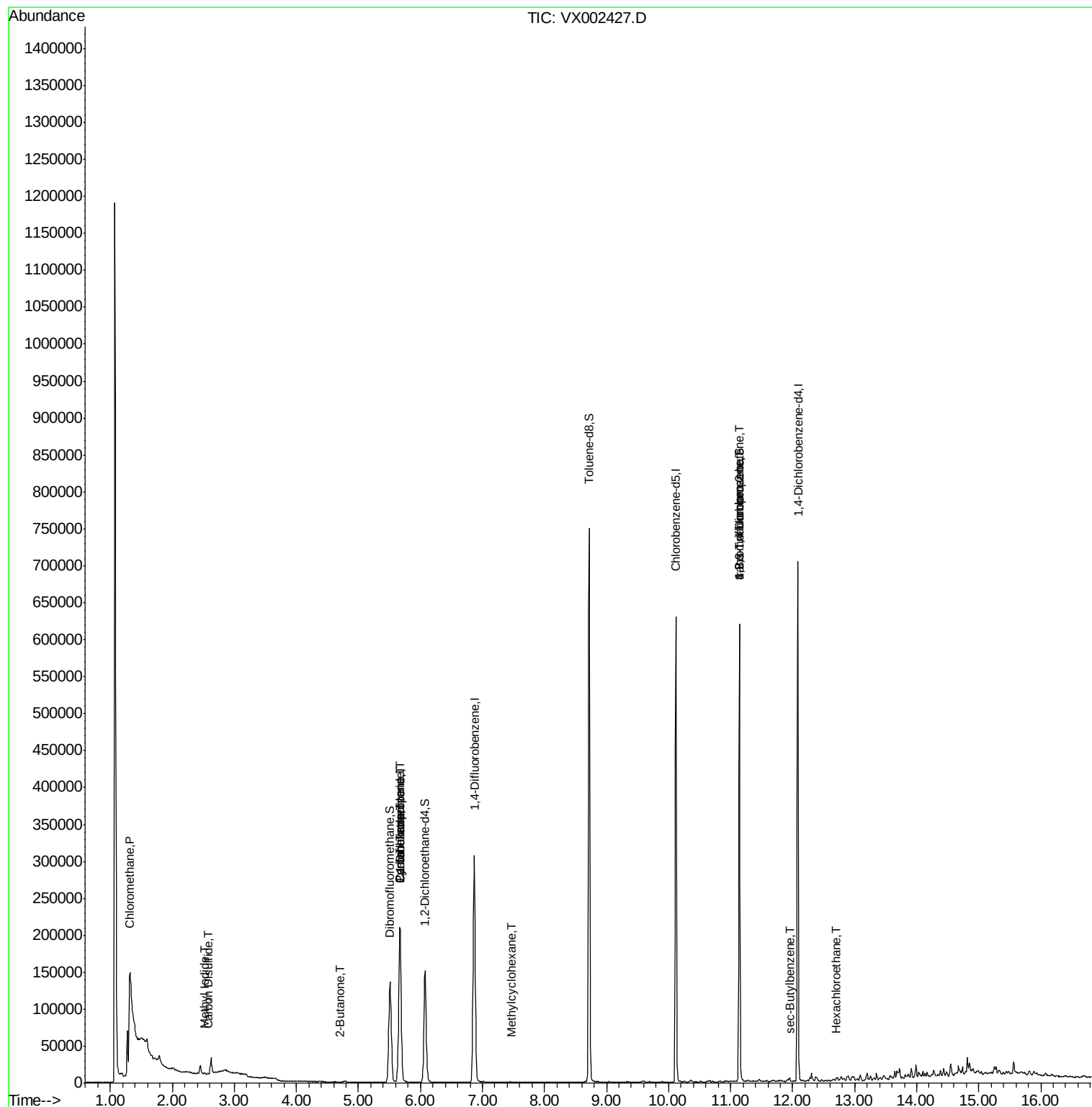
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	9962	1.26	ug/l	# 59
5) Bromomethane	1.66	94	1531	Below	Cal	97
8) Diethyl Ether	1.94	74	108	Below	Cal	72
10) Methyl Iodide	2.52	142	1790	0.57	ug/l	# 93
11) Tert butyl alcohol	3.03	59	236	Below	Cal	# 1
13) Acrolein	2.31	56	225	Below	Cal	# 48
15) Acrylonitrile	3.13	53	203	Below	Cal	# 68
16) Acetone	2.45	43	12277	Below	Cal	100
17) Carbon Disulfide	2.57	76	2577	0.45	ug/l	# 85
18) Methyl Acetate	2.78	43	296	Below	Cal	# 66
19) Methyl tert-butyl Ether	3.18	73	38	Below	Cal	# 1
20) Methylene Chloride	2.85	84	735	Below	Cal	# 73
22) Diisopropyl ether	3.87	45	74	Below	Cal	# 79
25) 2-Butanone	4.71	43	587	0.29	ug/l	# 52
28) Bromochloromethane	5.03	49	23	Below	Cal	# 13
31) Cyclohexane	5.67	56	4808	1.29	ug/l	# 31
36) 1,1-Dichloropropene	5.67	75	14688	4.64	ug/l	# 51
38) Carbon Tetrachloride	5.67	117	19223	5.81	ug/l	# 16
39) Methylcyclohexane	7.47	83	135	0.30	ug/l	# 43
76) 1,2,3-Trichloropropane	11.14	75	77831	24.15	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	77831	84.65	ug/l	# 7
85) sec-Butylbenzene	11.95	105	2018	0.20	ug/l	# 57
90) Hexachloroethane	12.71	117	903	0.62	ug/l	# 1

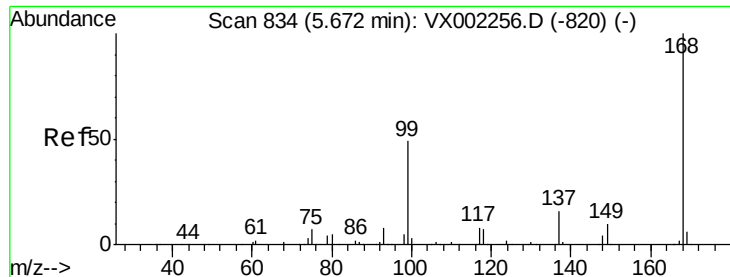
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX002427.D

Acq: 09 Jun 2018 17:56

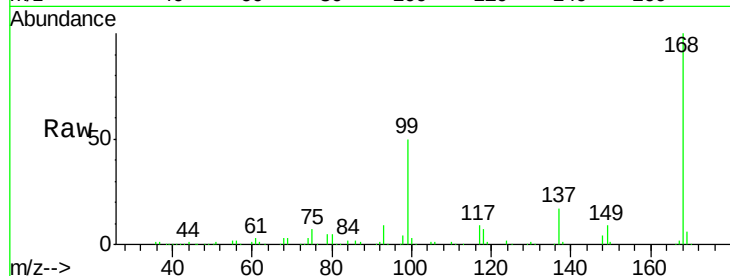
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 206153

Ion Ratio Lower Upper

168 100

99 49.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

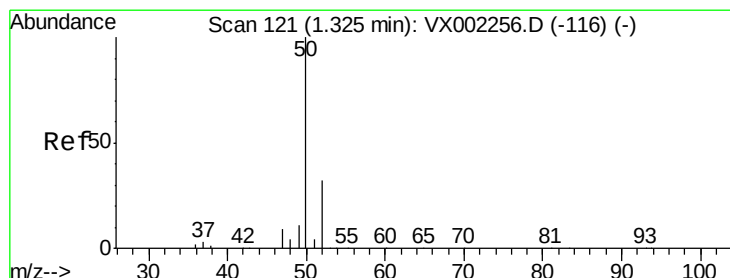
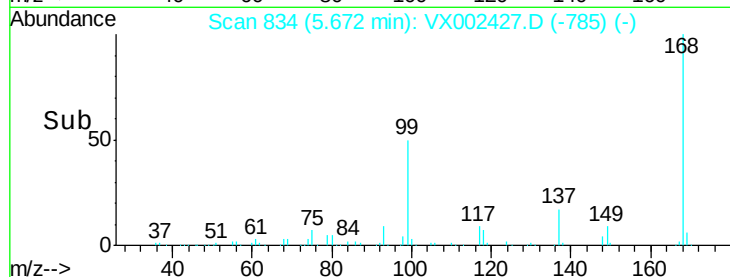
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 1.26 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX002427.D

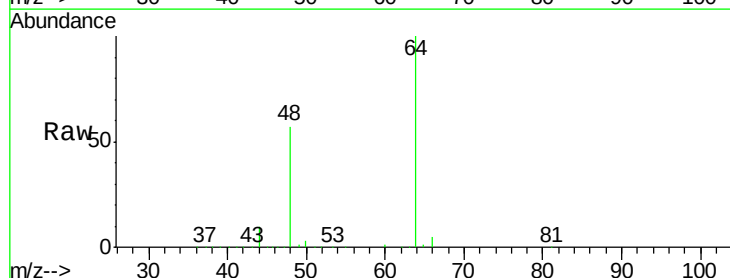
Acq: 09 Jun 2018 17:56

Tgt Ion: 50 Resp: 9962

Ion Ratio Lower Upper

50 100

52 9.3 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

3000

2500

2000

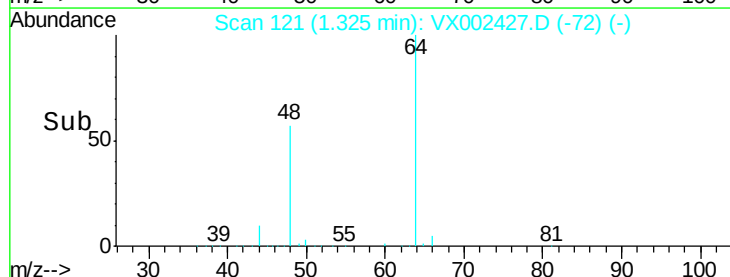
1500

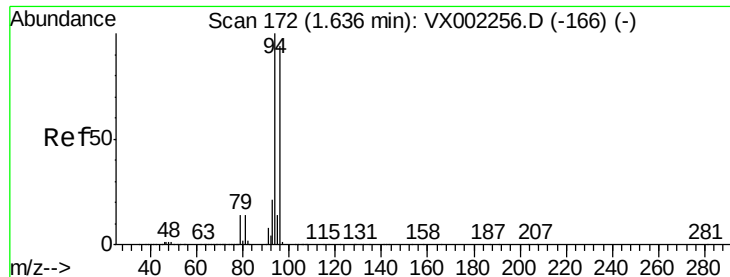
1000

500

0

Time--> 1.30 1.40





#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 176

Delta R.T. 0.03 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :

MSVOA_X

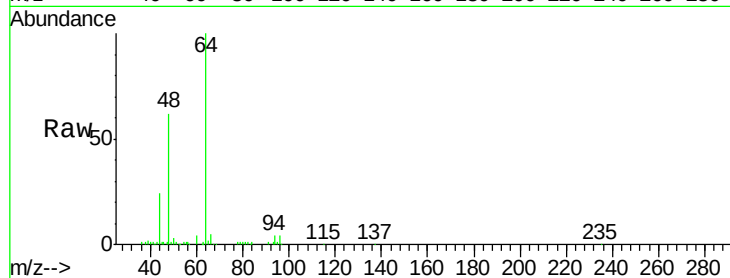
ClientSampleId :

Tot Ion: 94 Resp: 1531

Ion Ratio Lower Upper

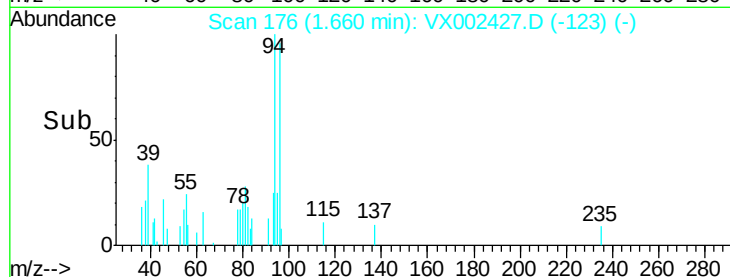
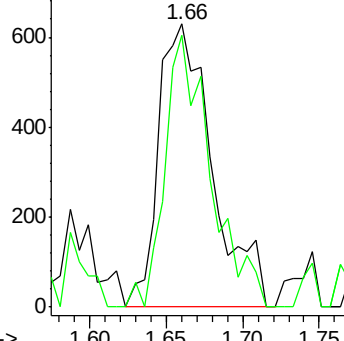
94 100

96 96.2 74.9 112.3

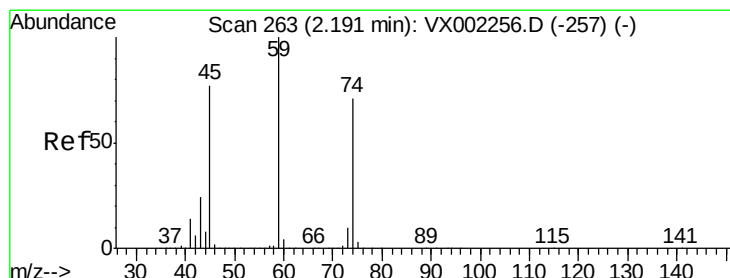


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#8

Diethyl Ether

Concen: Below Cal

RT: 1.94 min Scan# 222

Delta R.T. -0.25 min

Lab File: VX002427.D

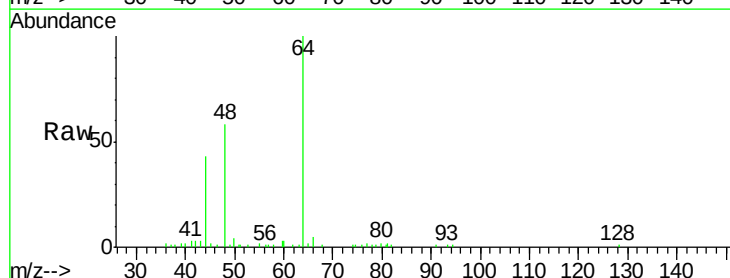
Acq: 09 Jun 2018 17:56

Tgt Ion: 74 Resp: 108

Ion Ratio Lower Upper

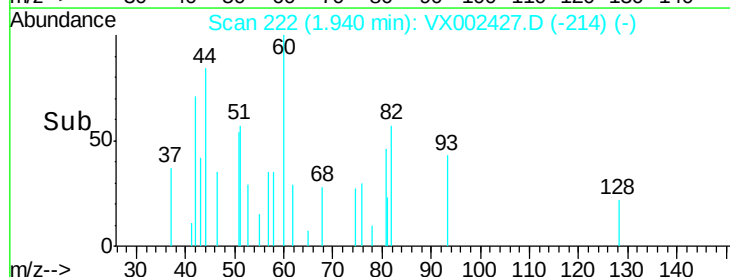
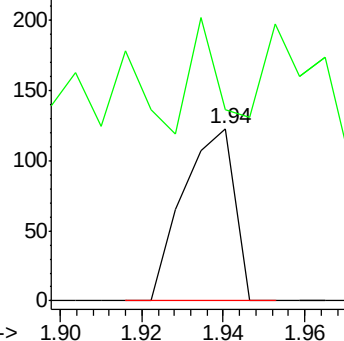
74 100

45 76.9 53.1 159.4

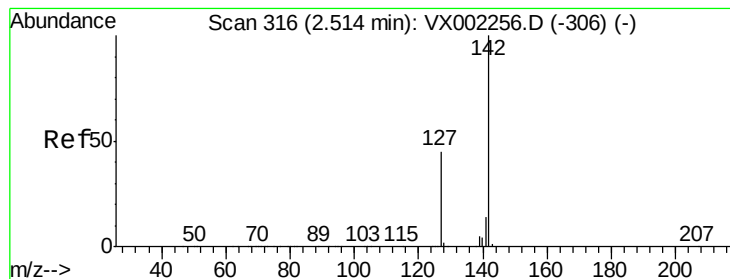


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 0.57 ug/l

RT: 2.52 min Scan# 317

Delta R.T. 0.01 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :
MSVOA_X
ClientSampled :

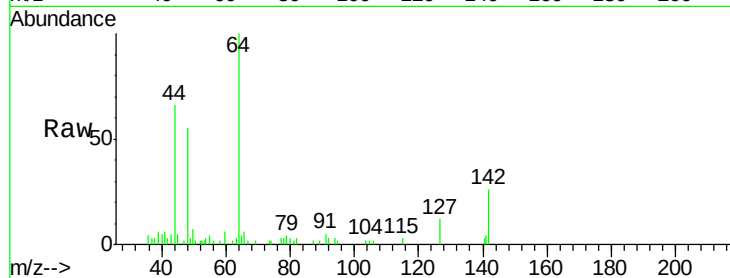
Tot Ion:142 Resp: 1790

Ion Ratio Lower Upper

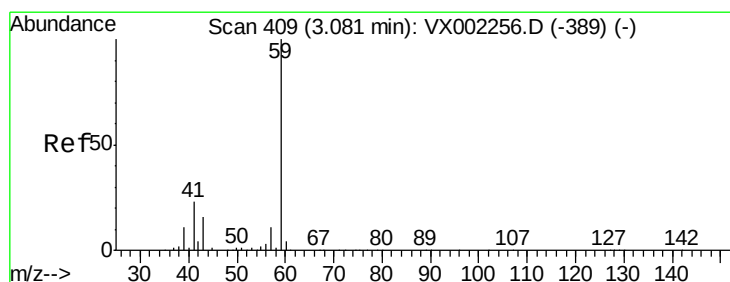
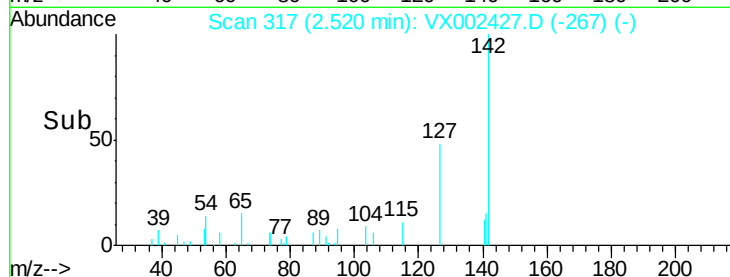
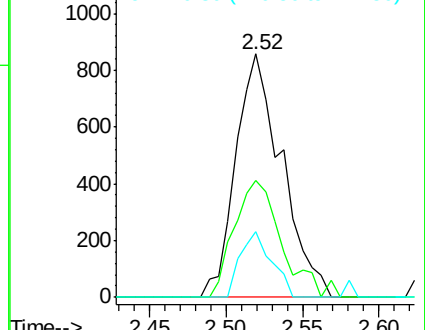
142 100

127 49.7 36.6 55.0

141 18.3 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: 3.03 min Scan# 400

Delta R.T. -0.05 min

Lab File: VX002427.D

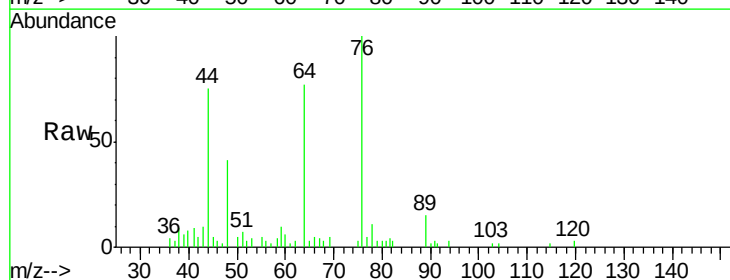
Acq: 09 Jun 2018 17:56

Tgt Ion: 59 Resp: 236

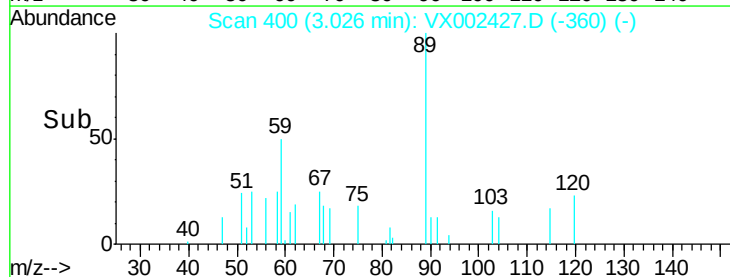
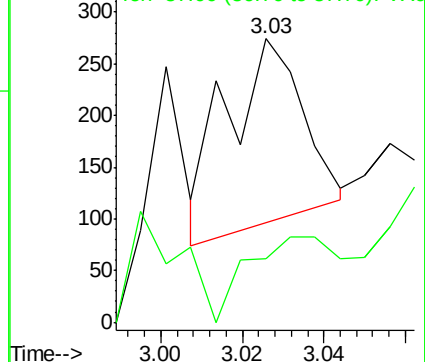
Ion Ratio Lower Upper

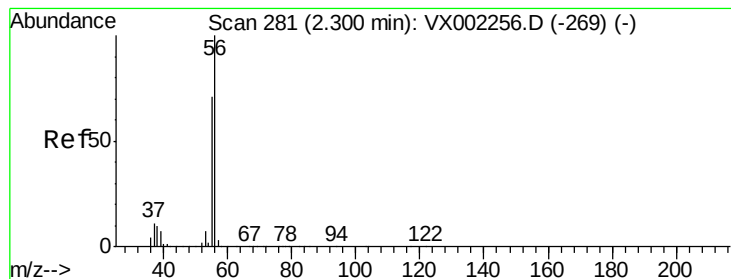
59 100

57 53.8 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: 2.31 min Scan# 282

Delta R.T. 0.01 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

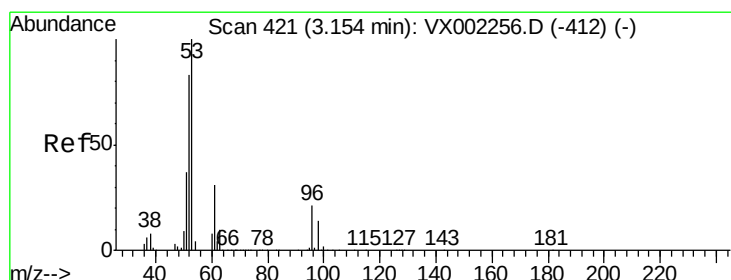
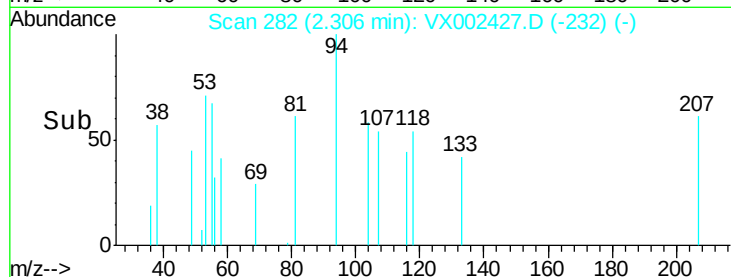
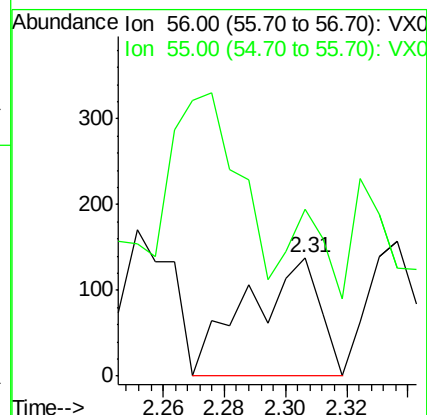
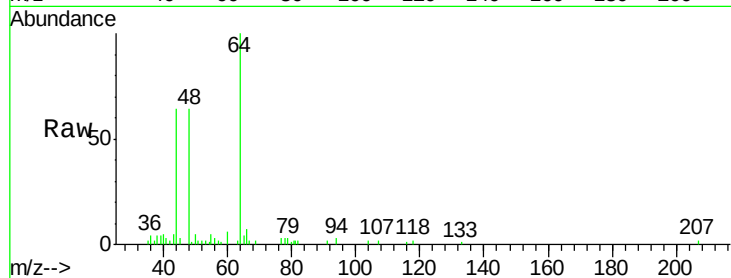
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 225

Ion Ratio Lower Upper

56 100

55 28.4 57.0 85.4#



#15

Acrylonitrile

Concen: Below Cal

RT: 3.13 min Scan# 417

Delta R.T. -0.02 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

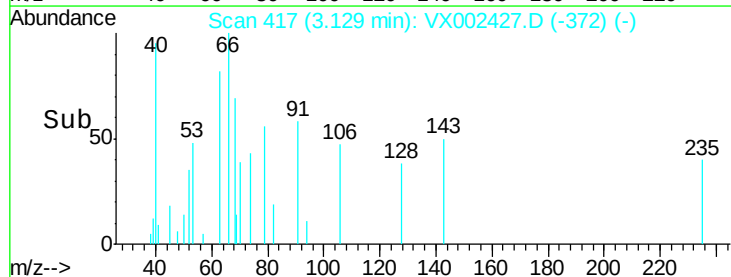
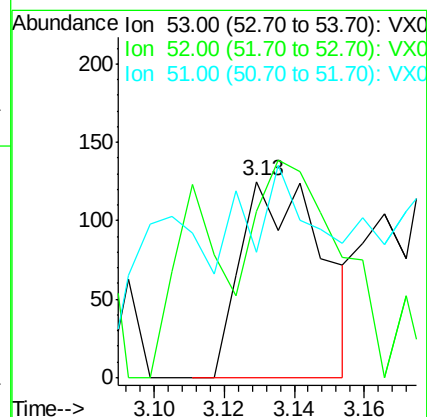
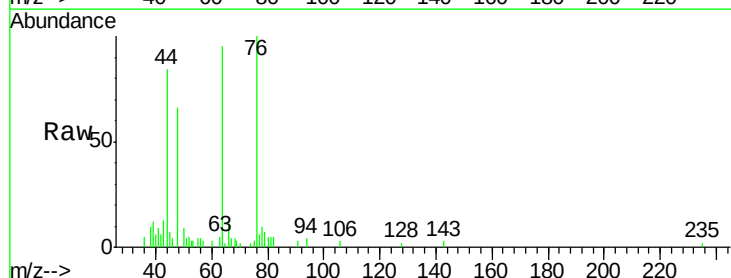
Tgt Ion: 53 Resp: 203

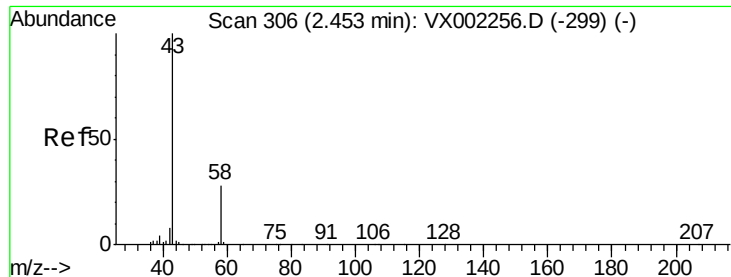
Ion Ratio Lower Upper

53 100

52 123.6 66.7 100.1#

51 39.4 29.9 44.9

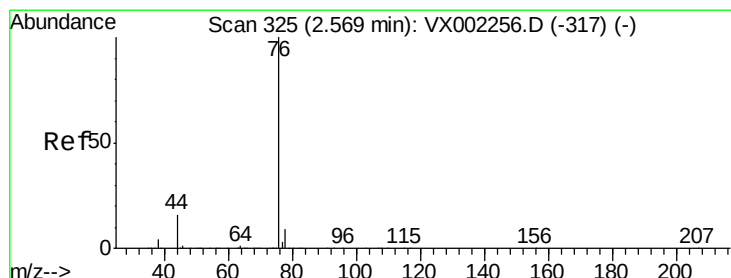
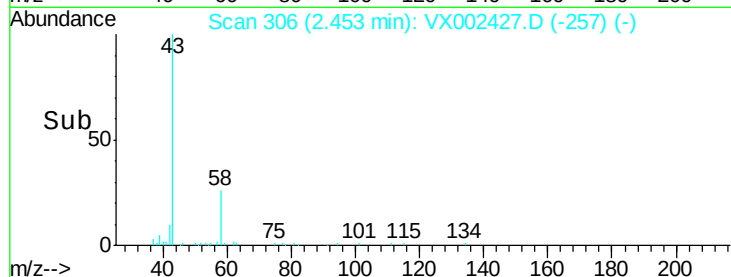
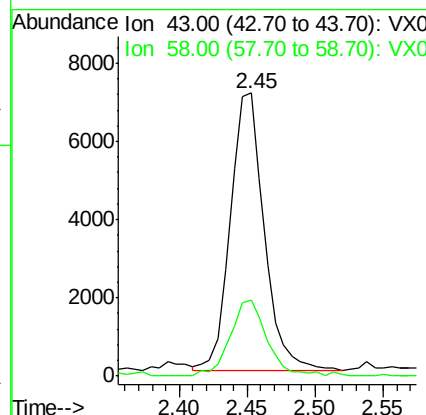
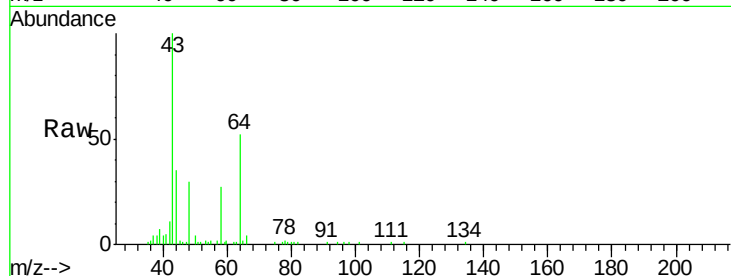




#16
Acetone
Concen: Below Cal
RT: 2.45 min Scan# 306
Delta R.T. 0.00 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

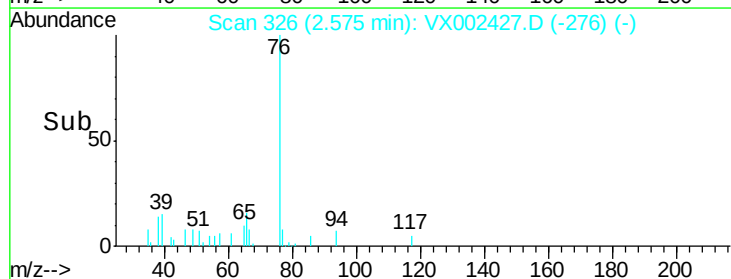
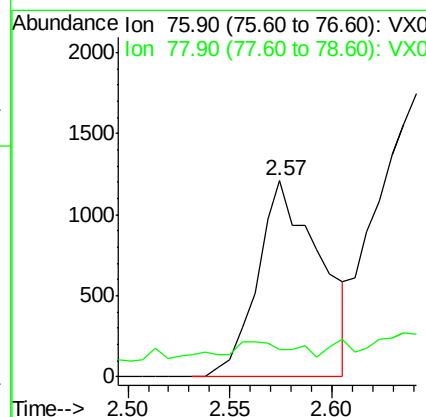
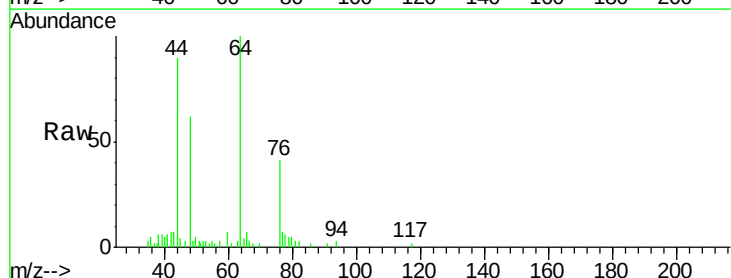
Instrument :
MSVOA_X
ClientSampleId :

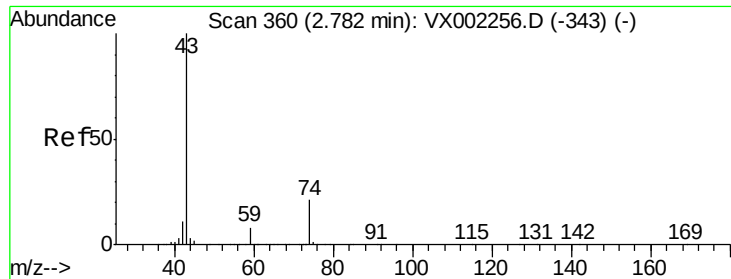
Tot Ion: 43 Resp: 12277
Ion Ratio Lower Upper
43 100
58 27.6 22.1 33.1



#17
Carbon Disulfide
Concen: 0.45 ug/l
RT: 2.57 min Scan# 326
Delta R.T. 0.01 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

Tgt Ion: 76 Resp: 2577
Ion Ratio Lower Upper
76 100
78 3.1 6.9 10.3#

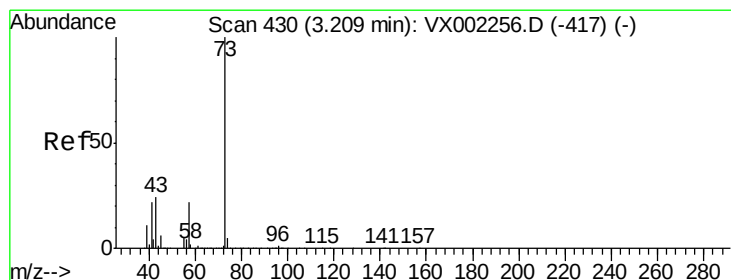
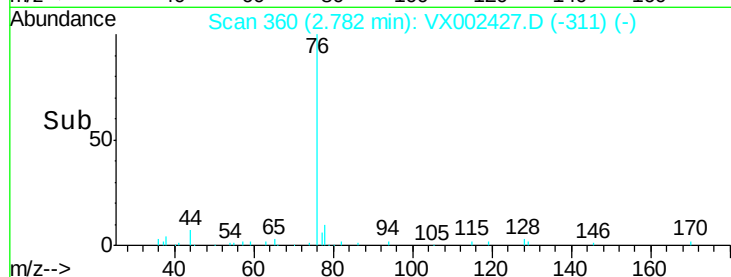
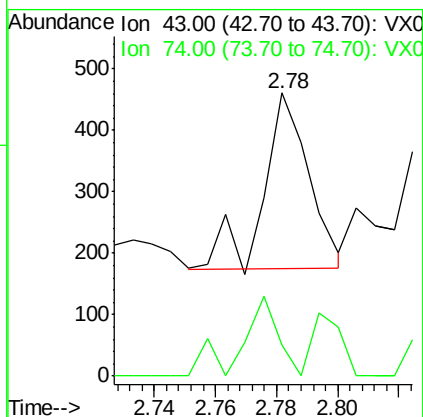
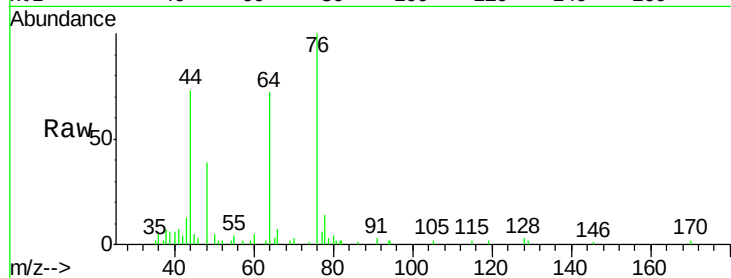




#18
Methyl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 360
Delta R.T. -0.00 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

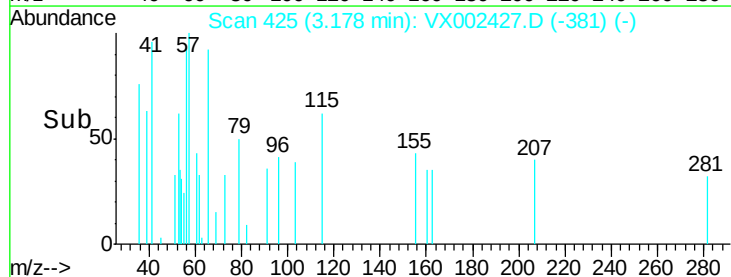
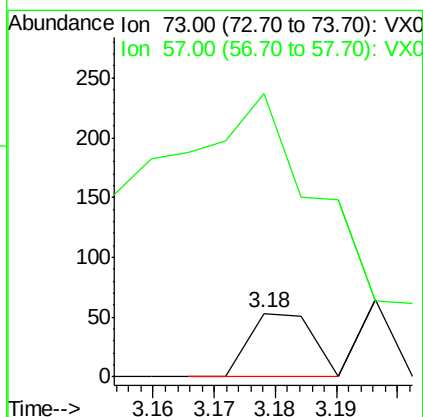
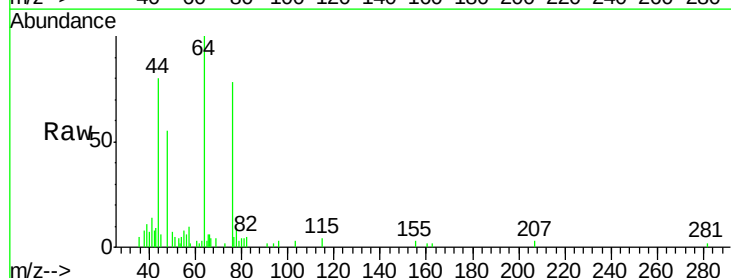
Instrument :
MSVOA_X
ClientSampled :

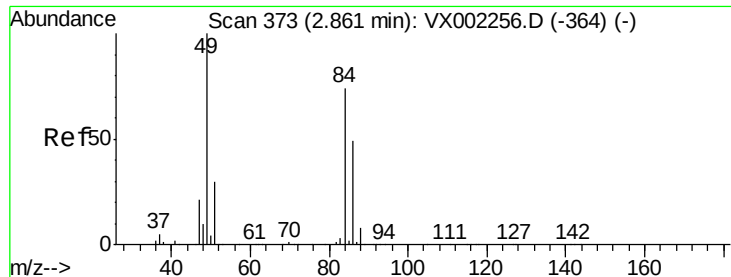
Tot Ion: 43 Resp: 296
Ion Ratio Lower Upper
43 100
74 36.8 16.7 25.1#



#19
Methyl tert-butyl Ether
Concen: Below Cal
RT: 3.18 min Scan# 425
Delta R.T. -0.03 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

Tgt Ion: 73 Resp: 38
Ion Ratio Lower Upper
73 100
57 167.9 17.7 26.5#

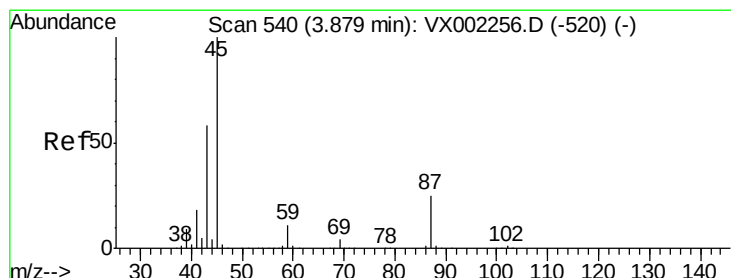
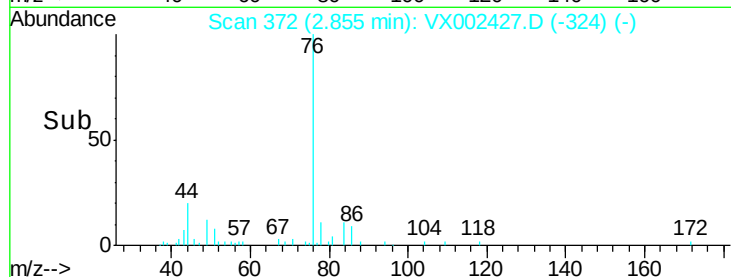
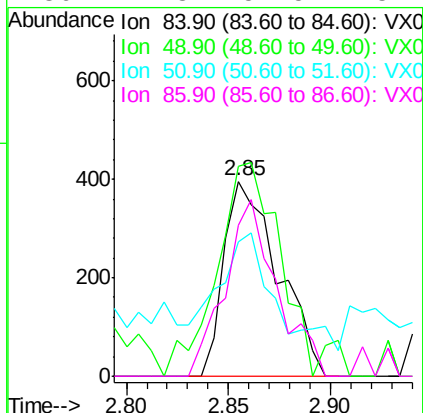
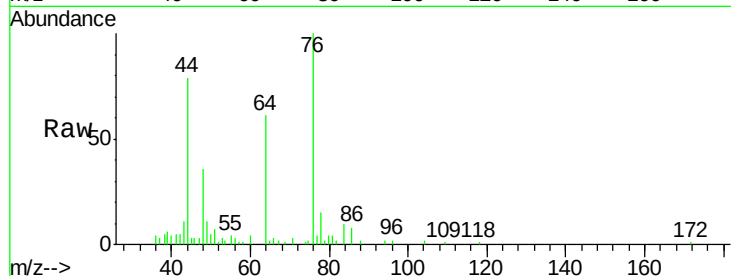




#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

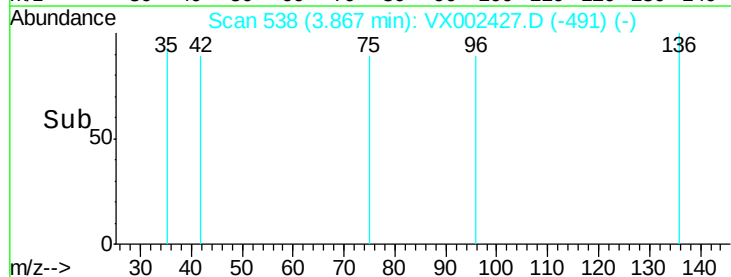
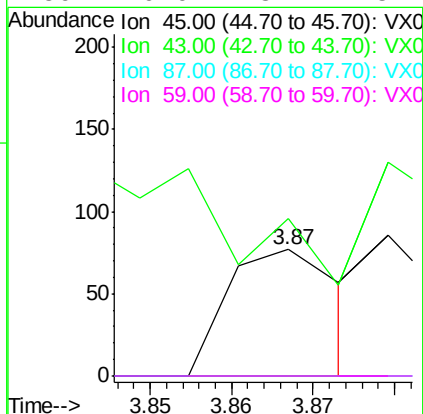
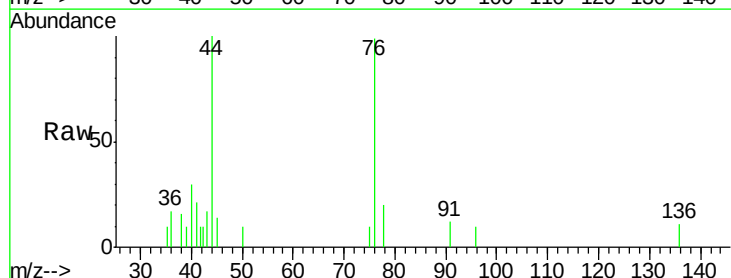
Instrument :
MSVOA_X
ClientSampleId :

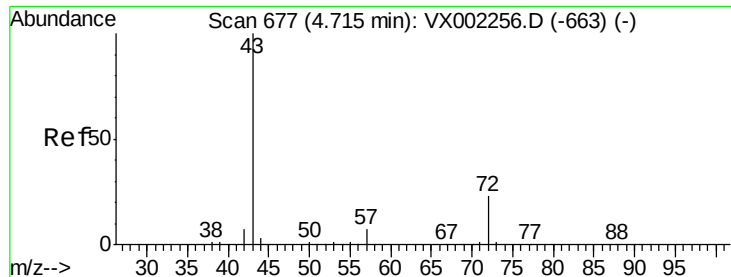
Tot Ion: 84 Resp: 735
Ion Ratio Lower Upper
84 100
49 94.4 107.8 161.6#
51 55.3 32.8 49.2#
86 77.8 52.5 78.7



#22
Diisopropyl ether
Concen: Below Cal
RT: 3.87 min Scan# 538
Delta R.T. -0.01 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

Tgt Ion: 45 Resp: 74
Ion Ratio Lower Upper
45 100
43 53.2 46.8 70.2
87 0.0 20.2 30.4#
59 0.0 8.7 13.1#





#25

2-Butanone

Concen: 0.29 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :

MSVOA_X

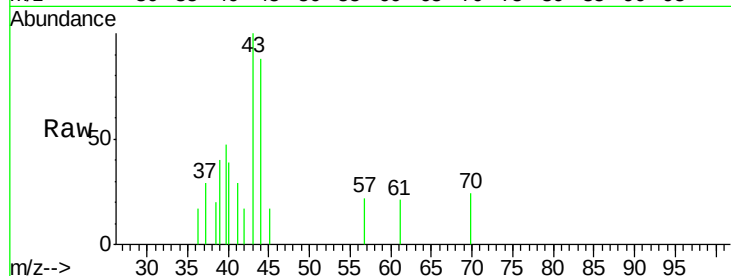
ClientSampleId :

Tot Ion: 43 Resp: 587

Ion Ratio Lower Upper

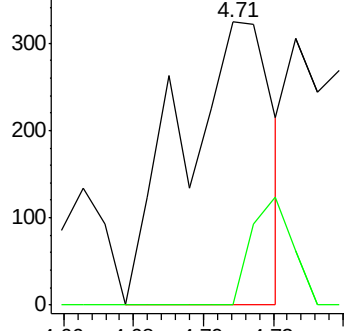
43 100

72 0.0 18.5 27.7#

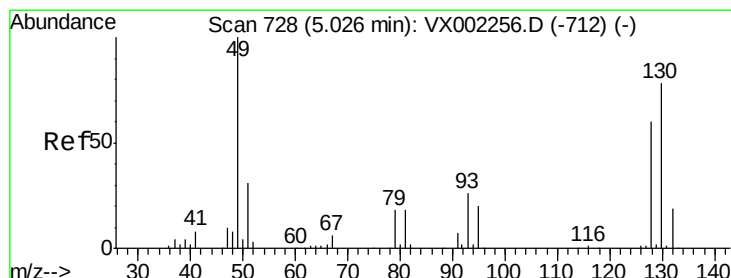
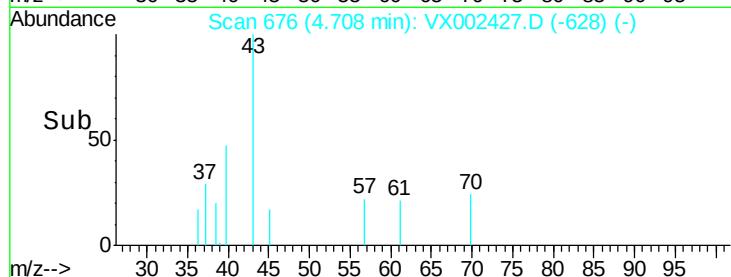


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#28

Bromochloromethane

Concen: Below Cal

RT: 5.03 min Scan# 728

Delta R.T. 0.00 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

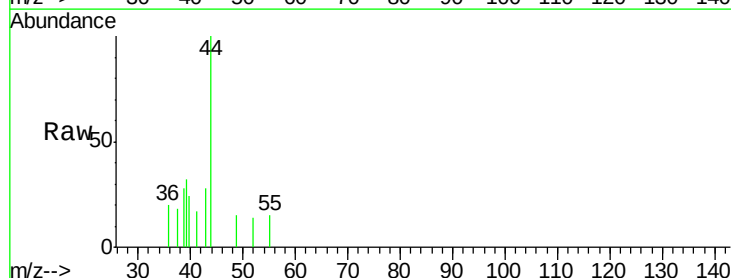
Tgt Ion: 49 Resp: 23

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.2

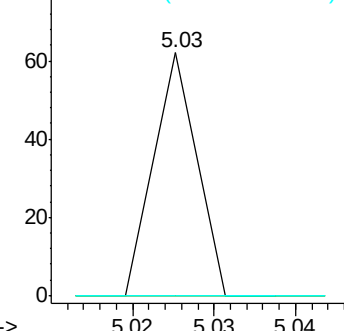
130 0.0 61.2 91.8#



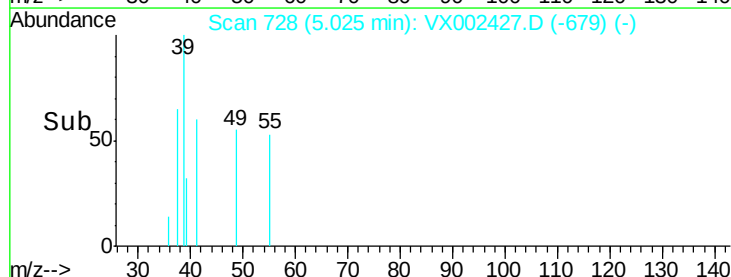
Abundance Ion 48.90 (48.60 to 49.60): VX0

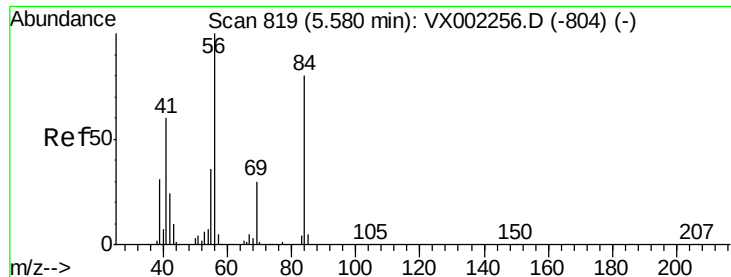
Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



Time-->

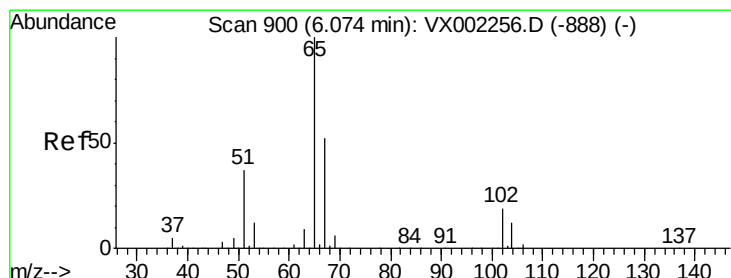
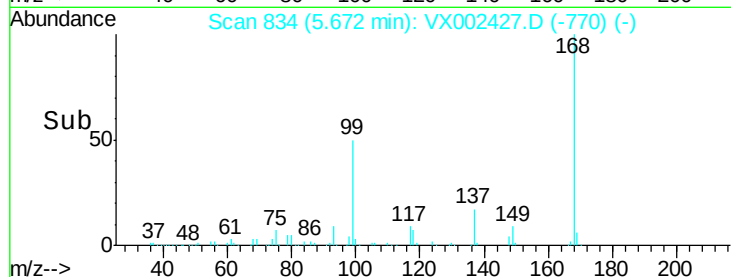
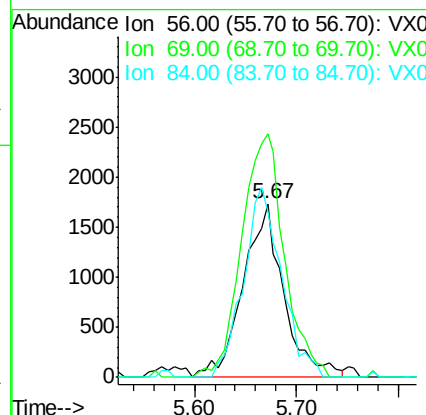
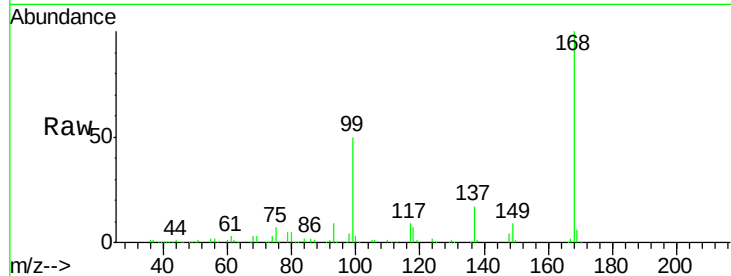




#31
Cyclohexane
Concen: 1.29 ug/l
RT: 5.67 min Scan# 834
Delta R.T. 0.09 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

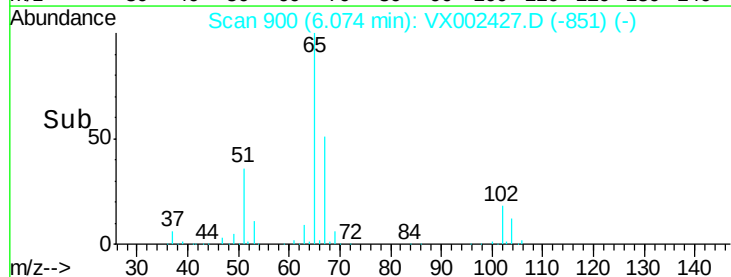
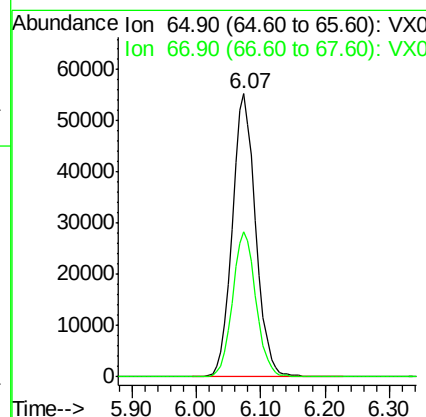
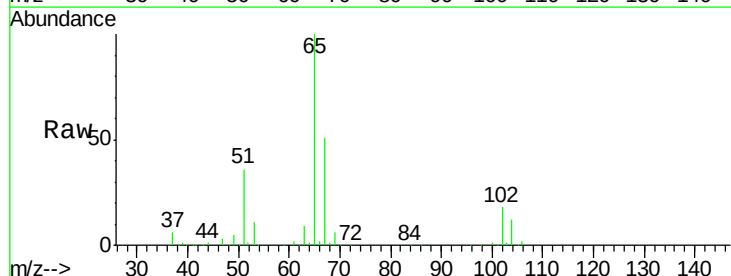
Instrument :
MSVOA_X
ClientSampleId :

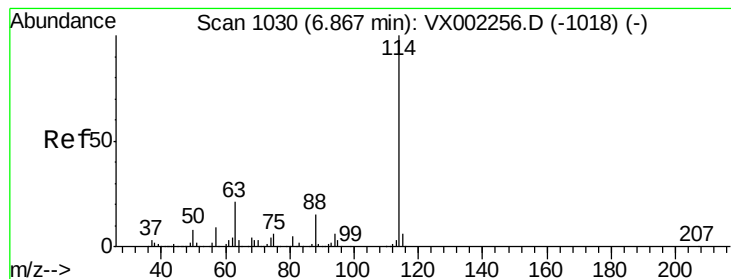
Tot Ion: 56 Resp: 4808
Ion Ratio Lower Upper
56 100
69 140.5 23.7 35.5#
84 95.8 64.1 96.1



#33
1,2-Dichloroethane-d4
Concen: 47.68 ug/l
RT: 6.07 min Scan# 900
Delta R.T. -0.00 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

Tgt Ion: 65 Resp: 141031
Ion Ratio Lower Upper
65 100
67 51.3 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: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :

MSVOA_X

ClientSampleId :

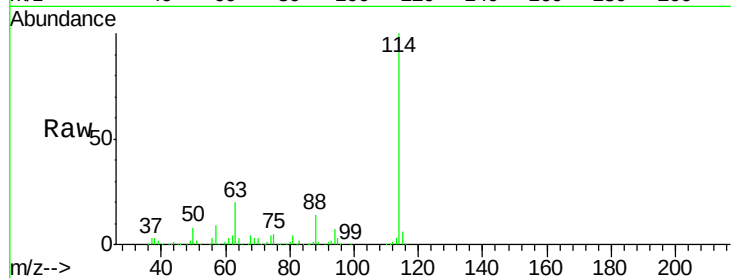
Tot Ion:114 Resp: 300891

Ion Ratio Lower Upper

114 100

63 20.2 0.0 41.4

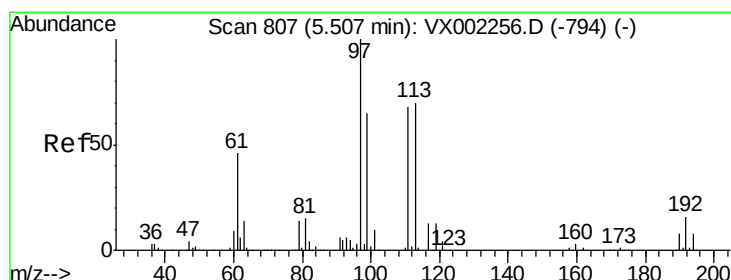
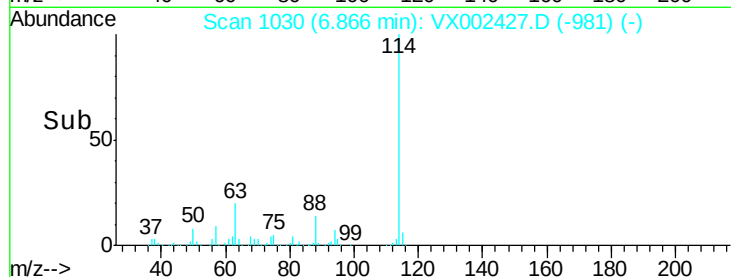
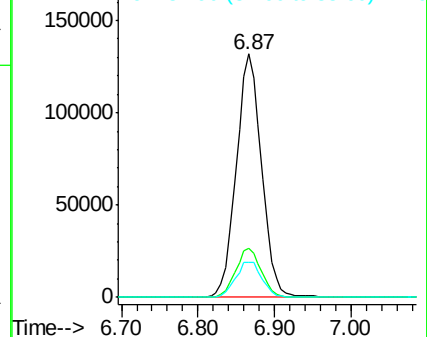
88 14.3 0.0 30.0



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: 46.10 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.00 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

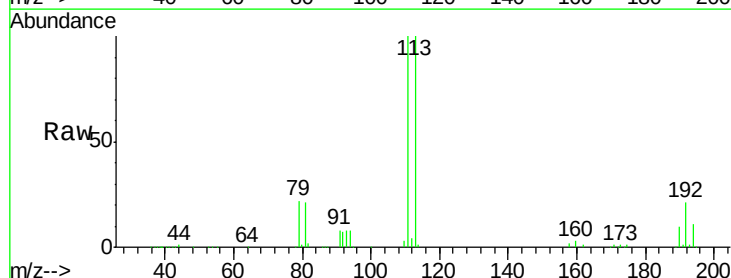
Tgt Ion:113 Resp: 109072

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

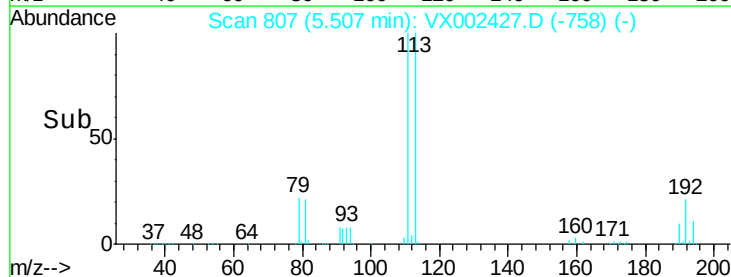
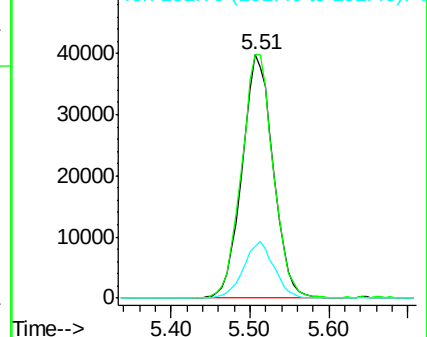
192 22.7 19.1 28.7

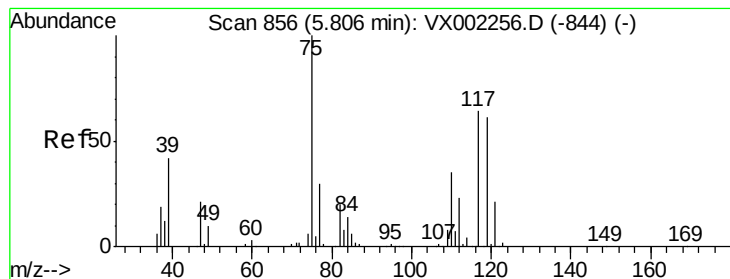


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.64 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.14 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :

MSVOA_X

ClientSampleId :

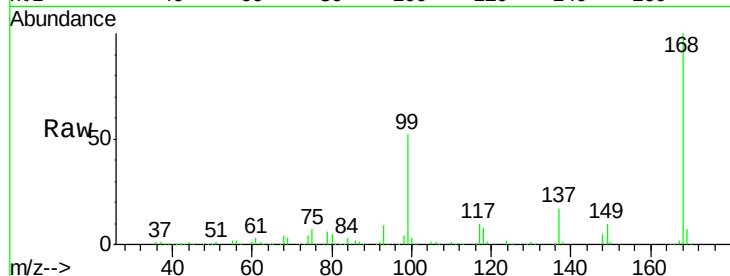
Tot Ion: 75 Resp: 14688

Ion Ratio Lower Upper

75 100

110 10.6 18.1 54.4#

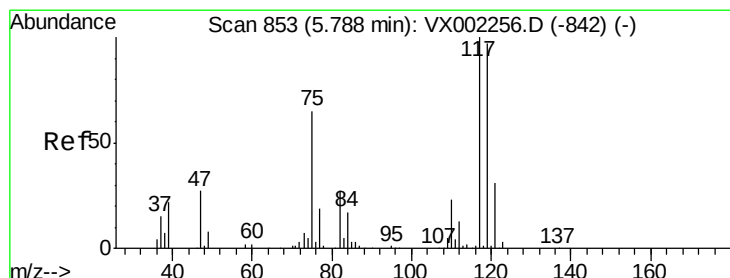
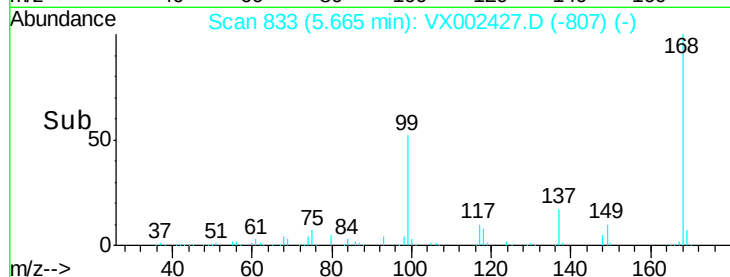
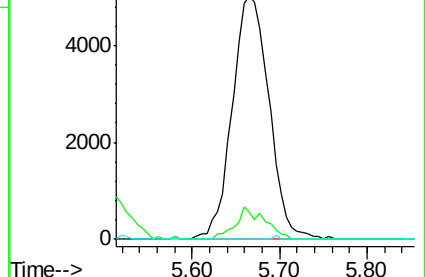
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VX002256.D (-844) (-)

Ion 109.90 (109.60 to 110.60): VX002256.D (-844) (-)

Ion 76.90 (76.60 to 77.60): VX002256.D (-844) (-)



#38

Carbon Tetrachloride

Concen: 5.81 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.12 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

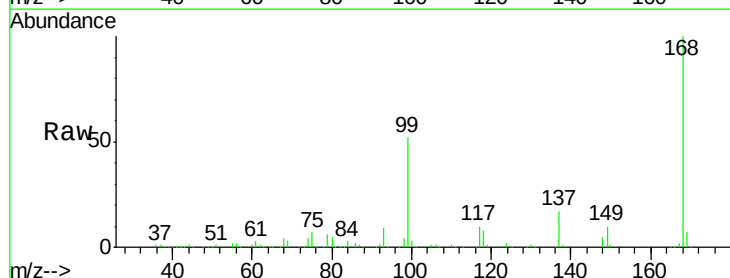
Tgt Ion: 117 Resp: 19223

Ion Ratio Lower Upper

117 100

119 5.5 77.4 116.0#

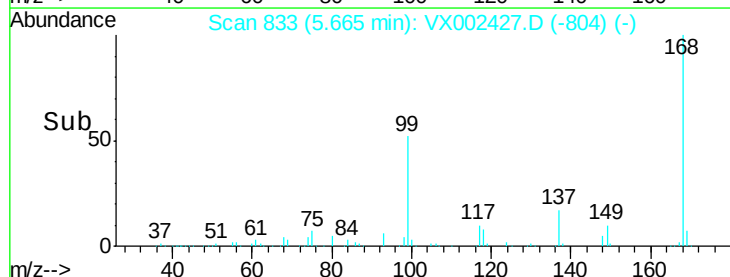
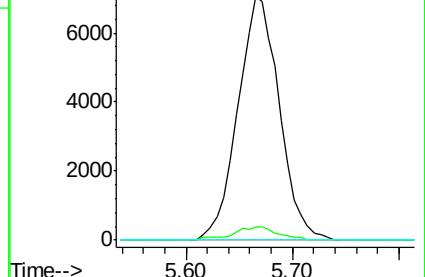
121 0.0 24.4 36.6#

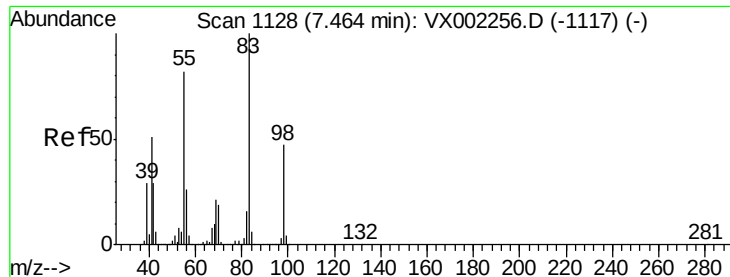


Abundance Ion 116.80 (116.50 to 117.50): VX002256.D (-842) (-)

Ion 118.80 (118.50 to 119.50): VX002256.D (-842) (-)

Ion 120.80 (120.50 to 121.50): VX002256.D (-842) (-)

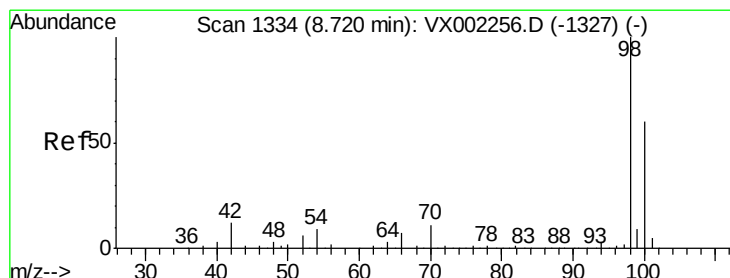
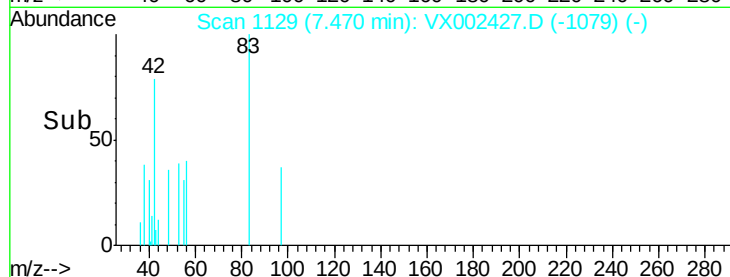
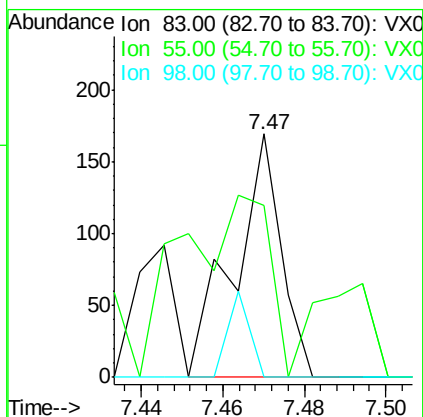
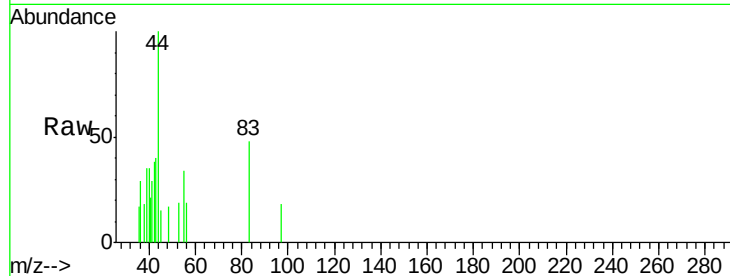




#39
Methylvlcyclohexane
Concen: 0.30 ug/l
RT: 7.47 min Scan# 1129
Delta R.T. 0.01 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

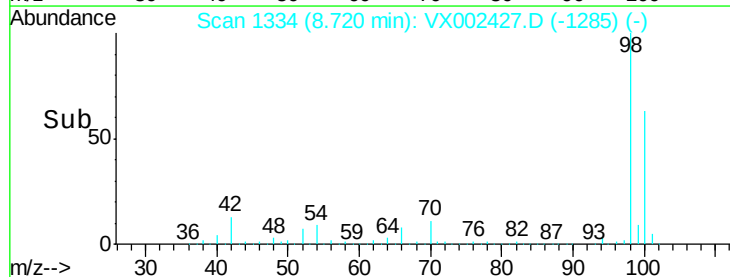
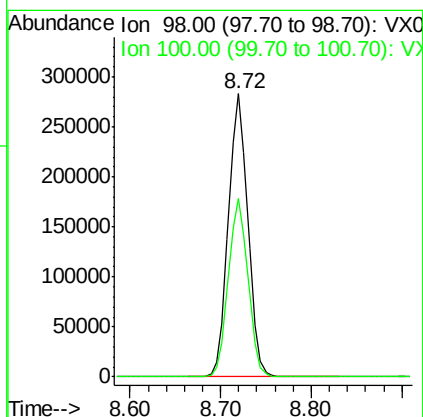
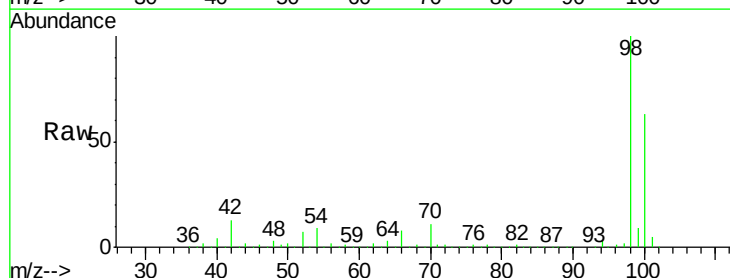
Instrument :
MSVOA_X
ClientSampleId :

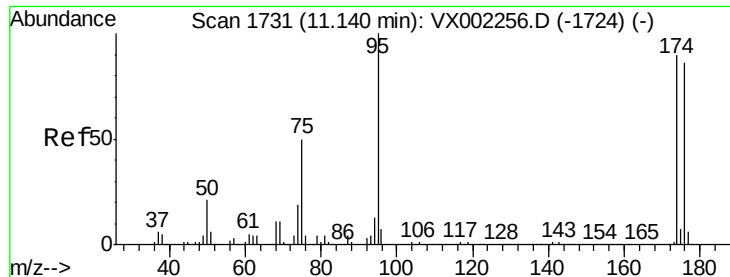
Tot Ion: 83 Resp: 135
Ion Ratio Lower Upper
83 100
55 37.9 65.4 98.0#
98 0.0 37.4 56.0#



#50
Toluene-d8
Concen: 46.70 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VX002427.D
Acq: 09 Jun 2018 17:56

Tgt Ion: 98 Resp: 423519
Ion Ratio Lower Upper
98 100
100 63.4 50.9 76.3





#62

4-Bromofluorobenzene

Concen: 40.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :

MSVOA_X

ClientSampleId :

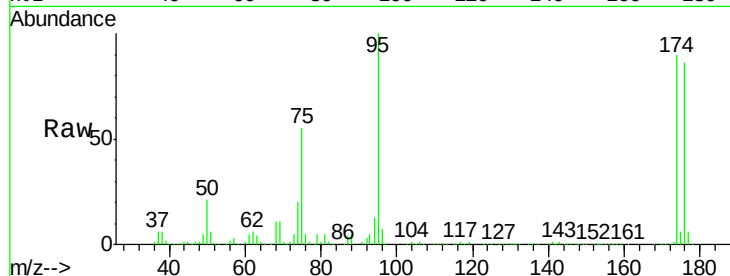
Tot Ion: 95 Resp: 142165

Ion Ratio Lower Upper

95 100

174 95.0 0.0 187.4

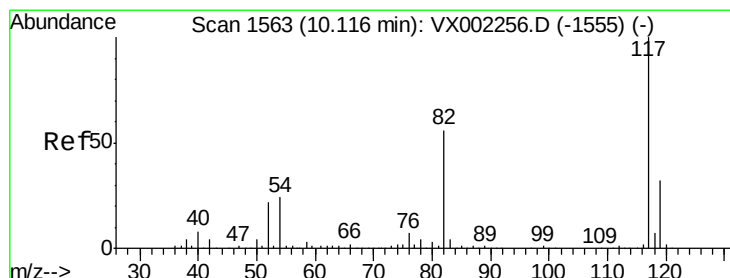
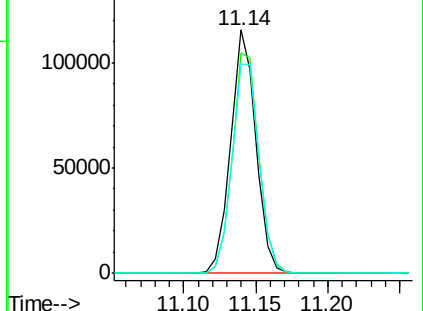
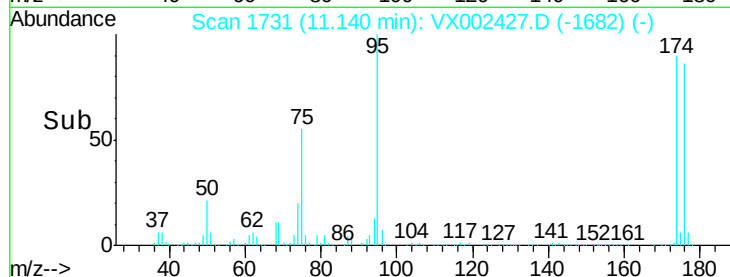
176 92.9 0.0 181.0



Abundance Ion 94.90 (94.60 to 95.60): VX002427.D (-1682) (-)

Ion 173.80 (173.50 to 174.50): VX002427.D (-1682) (-)

Ion 175.80 (175.50 to 176.50): VX002427.D (-1682) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. -0.00 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

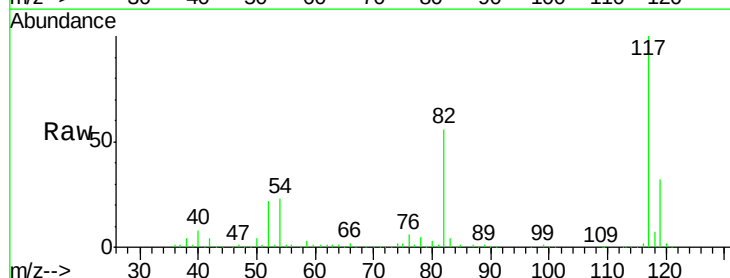
Tgt Ion: 117 Resp: 266835

Ion Ratio Lower Upper

117 100

82 55.9 45.0 67.4

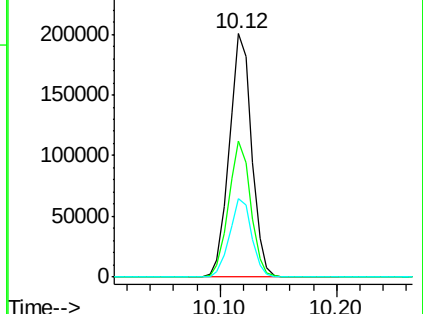
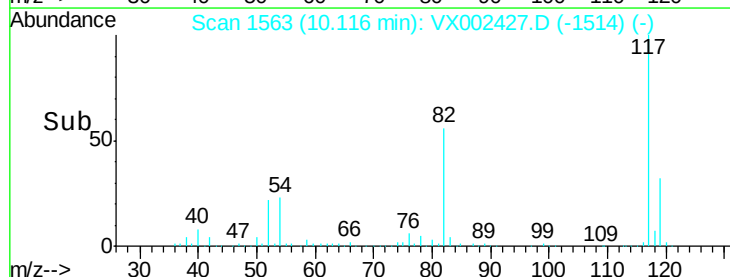
119 32.1 25.8 38.6

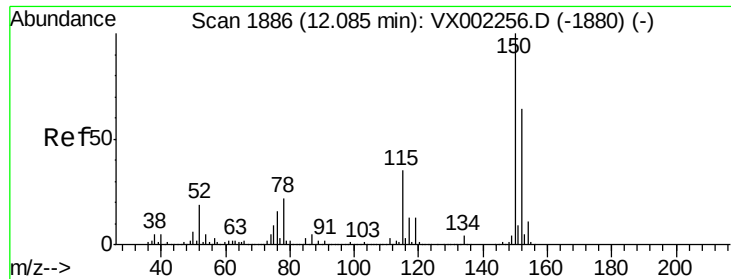


Abundance Ion 116.90 (116.60 to 117.60): VX002427.D (-1514) (-)

Ion 82.00 (81.70 to 82.70): VX002427.D (-1514) (-)

Ion 118.90 (118.60 to 119.60): VX002427.D (-1514) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :

MSVOA_X

ClientSampleId :

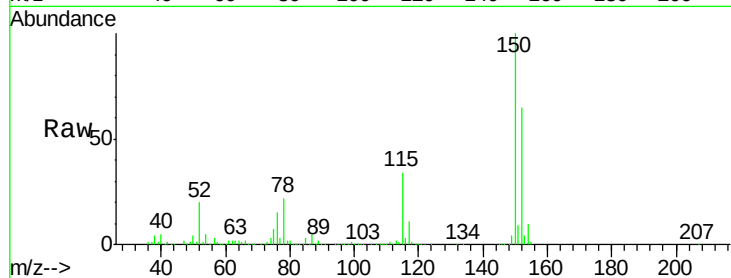
Tot Ion:152 Resp: 146888

Ion Ratio Lower Upper

152 100

115 54.5 40.1 120.2

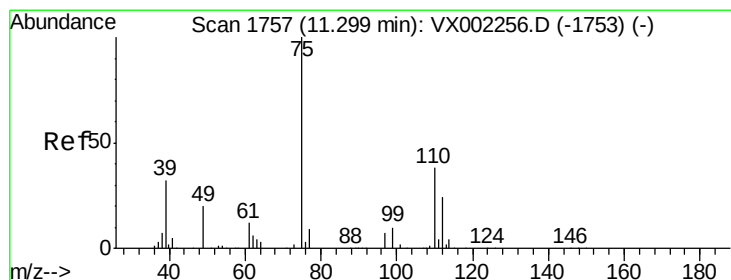
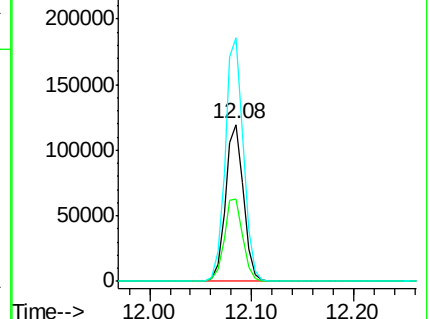
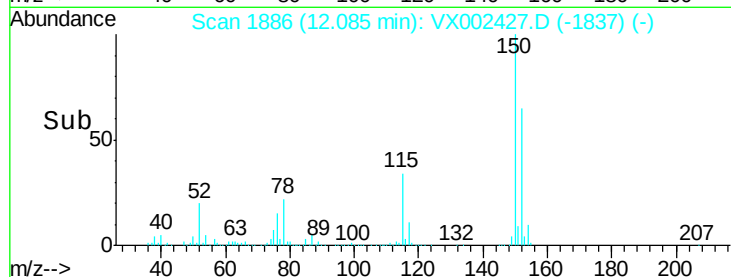
150 157.0 0.0 347.2



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: 24.15 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX002427.D

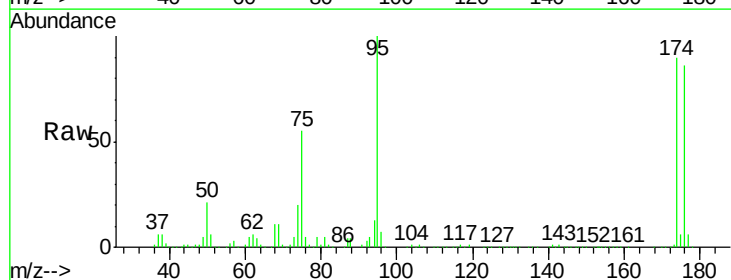
Acq: 09 Jun 2018 17:56

Tgt Ion: 75 Resp: 77831

Ion Ratio Lower Upper

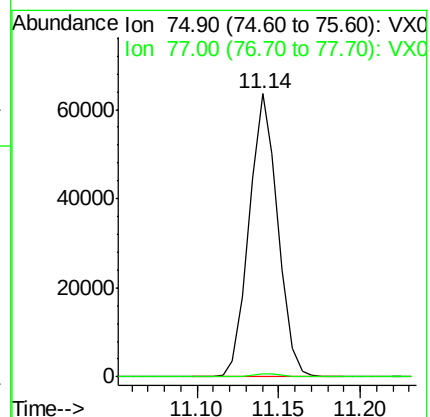
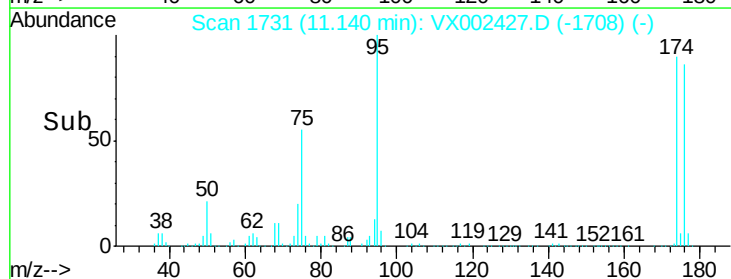
75 100

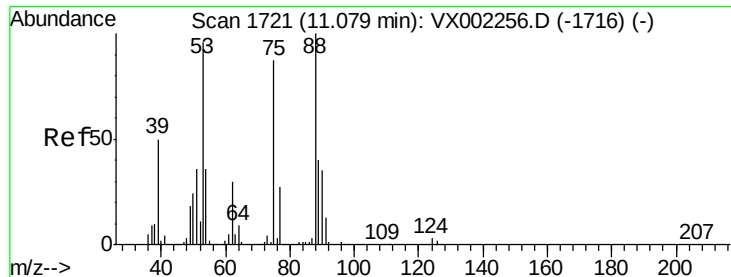
77 1.2 22.8 68.3#



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: 84.65 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :

MSVOA_X

ClientSampleId :

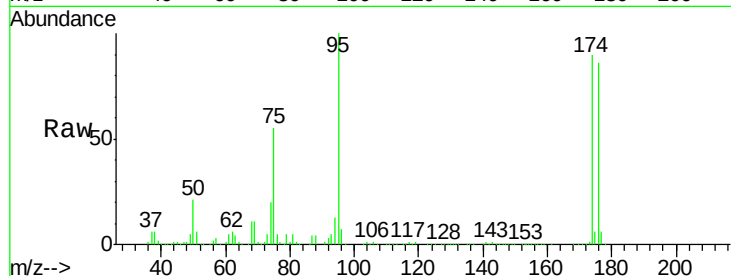
Tot Ion: 75 Resp: 77831

Ion Ratio Lower Upper

75 100

53 0.2 86.8 130.2#

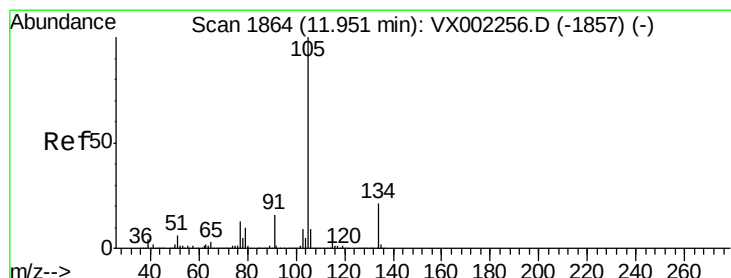
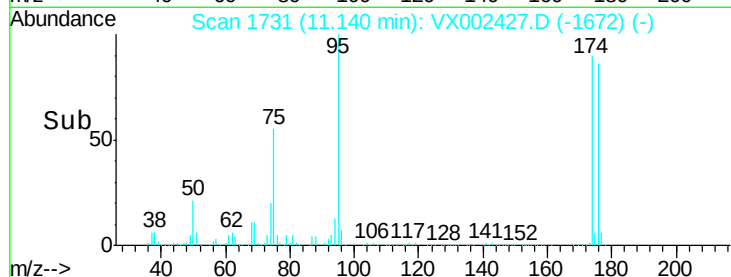
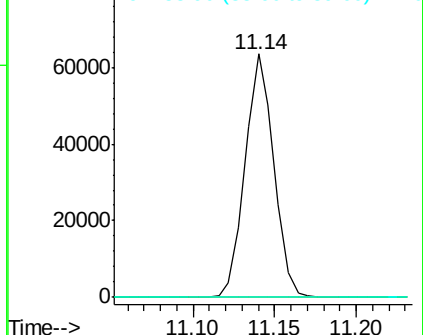
89 0.1 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#85

sec-Butylbenzene

Concen: 0.20 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX002427.D

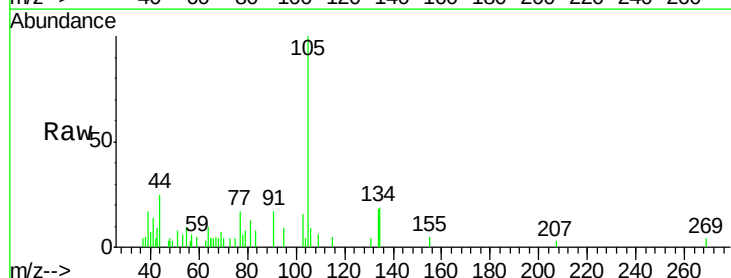
Acq: 09 Jun 2018 17:56

Tgt Ion: 105 Resp: 2018

Ion Ratio Lower Upper

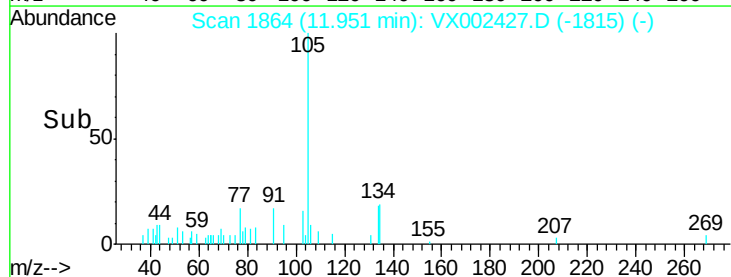
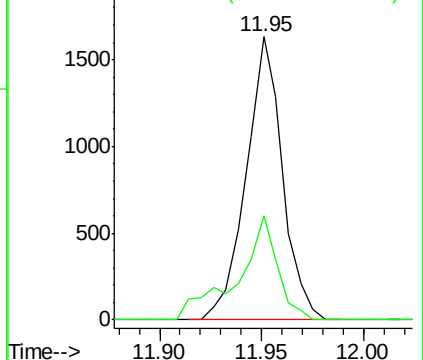
105 100

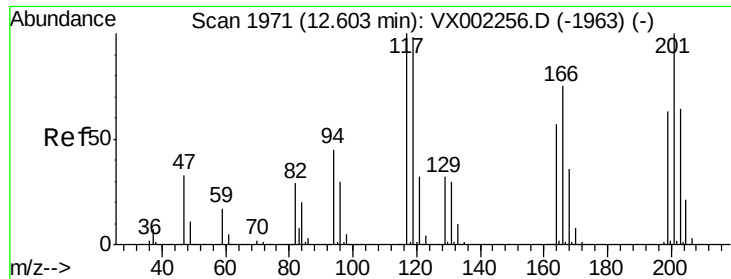
134 40.7 10.4 31.1#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#90

Hexachloroethane

Concen: 0.62 ug/l

RT: 12.71 min Scan# 1988

Delta R.T. 0.10 min

Lab File: VX002427.D

Acq: 09 Jun 2018 17:56

Instrument :

MSVOA_X

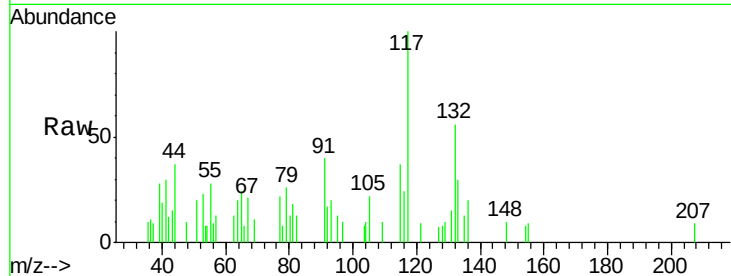
ClientSampleId :

Tot Ion:117 Resp: 903

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

