

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102819\NOT REVIEWED DATA\
 Data File : VX013256.D
 Acq On : 28 Oct 2019 18:30
 Operator : JC/SP
 Sample : K5575-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 W-5

Quant Time: Oct 29 19:24:15 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102419W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 24 03:56:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	69760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	101325	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	100417	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	63271	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	81501	55.86	ug/l	0.00
Spiked Amount			Recovery	=	111.72%	
35) Dibromofluoromethane	5.49	113	61076	54.05	ug/l	0.00
Spiked Amount			Recovery	=	108.10%	
50) Toluene-d8	8.71	98	216373	51.67	ug/l	0.00
Spiked Amount			Recovery	=	103.34%	
62) 4-Bromofluorobenzene	11.14	95	81405	49.12	ug/l	0.00
Spiked Amount			Recovery	=	98.24%	

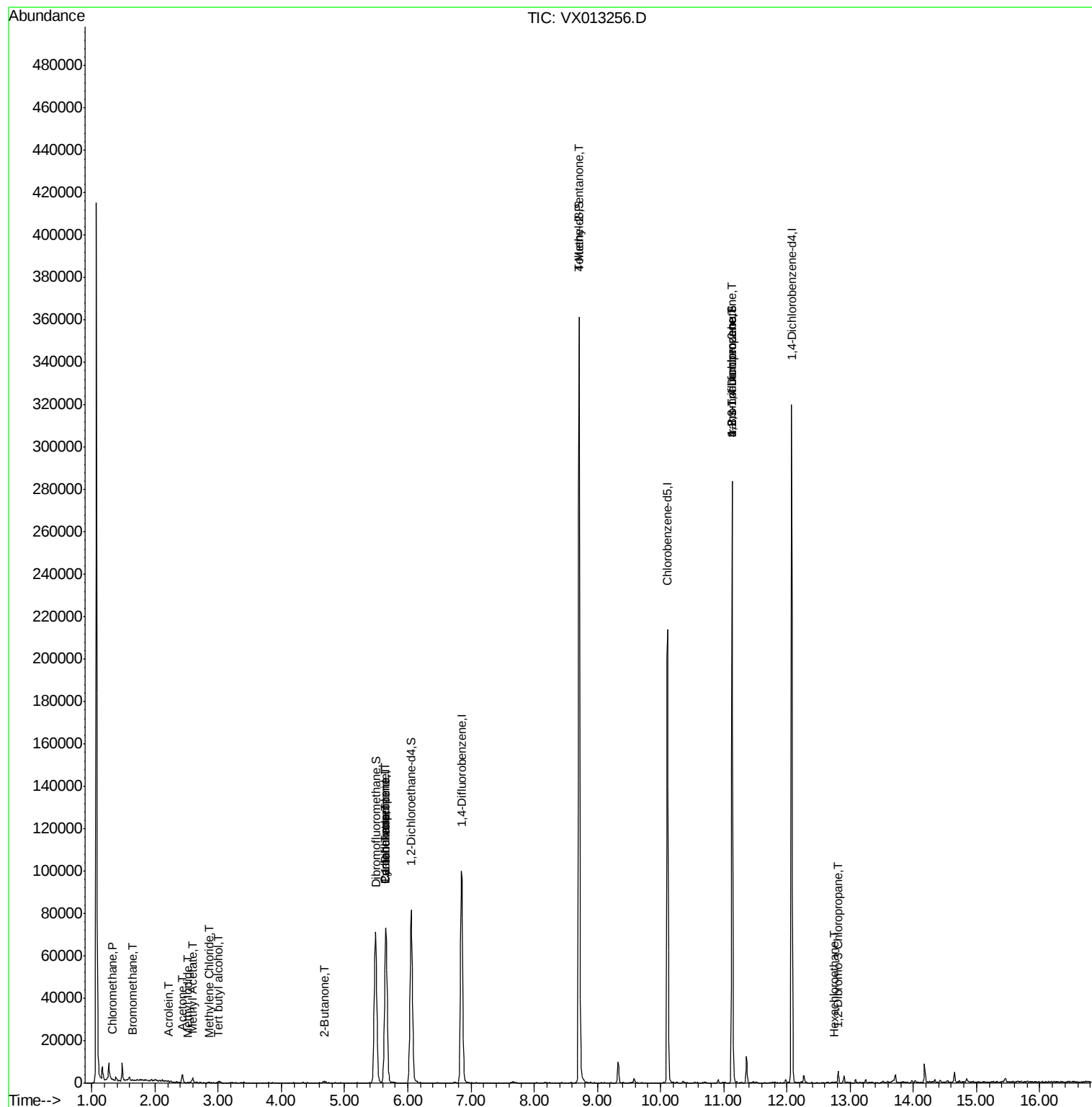
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	268	1.204	ug/l #	40
5) Bromomethane	1.64	94	216	0.322	ug/l	95
6) Chloroethane	1.70	64	89	Below Cal	#	43
10) Methyl Iodide	2.51	142	83	3.590	ug/l #	40
11) Tert butyl alcohol	3.01	59	498	0.513	ug/l #	72
13) Acrolein	2.21	56	40	0.234	ug/l #	1
16) Acetone	2.44	43	4015	5.841	ug/l	97
18) Methyl Acetate	2.59	43	827	1.509	ug/l #	49
20) Methylene Chloride	2.85	84	165	0.416	ug/l #	50
25) 2-Butanone	4.68	43	362	0.393	ug/l #	45
31) Cyclohexane	5.65	56	1284	0.680	ug/l #	12
36) 1,1-Dichloropropene	5.65	75	5285	3.044	ug/l #	47
38) Carbon Tetrachloride	5.65	117	7377	3.939	ug/l #	12
51) 4-Methyl-2-Pentanone	8.71	43	858	0.502	ug/l #	1
64) Tetrachloroethene	9.33	164	86	Below Cal	#	14
76) 1,2,3-Trichloropropane	11.14	75	39947	26.196	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.14	75	39947	71.984	ug/l #	11
90) Hexachloroethane	12.75	117	232	0.274	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	12.80	75	106	0.244	ug/l #	1

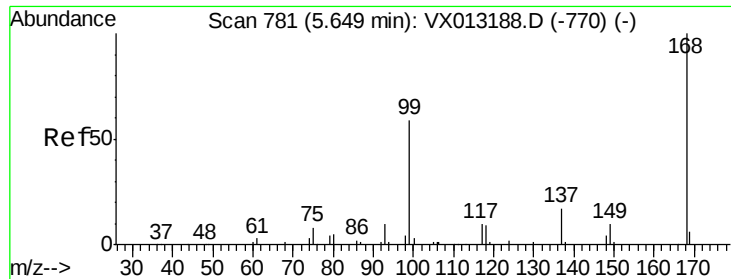
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampled :

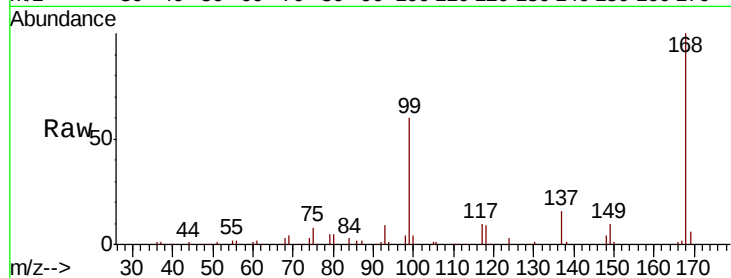
W-5

Tot Ion:168 Resp: 69760

Ion Ratio Lower Upper

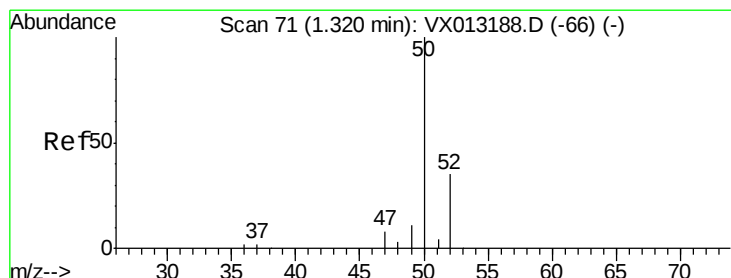
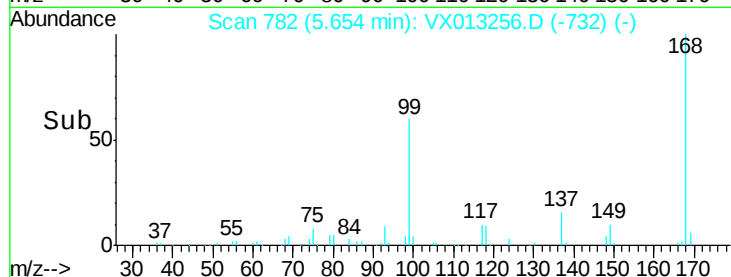
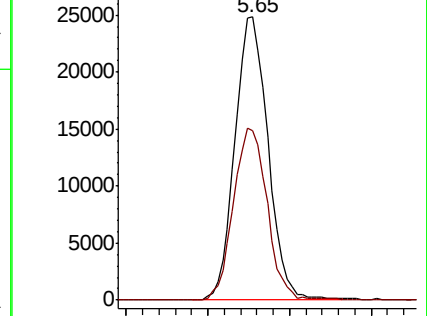
168 100

99 60.0 47.0 70.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 1.204 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013256.D

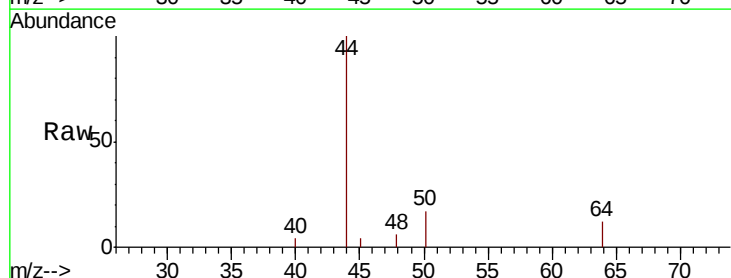
Acq: 28 Oct 2019 18:30

Tgt Ion: 50 Resp: 268

Ion Ratio Lower Upper

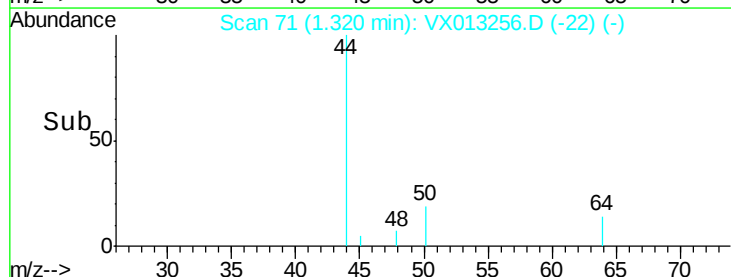
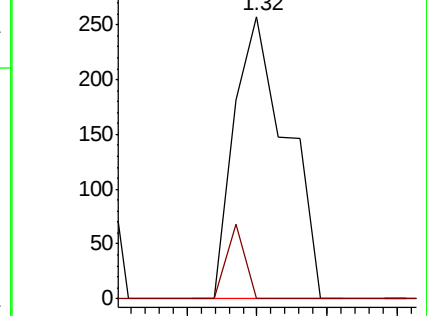
50 100

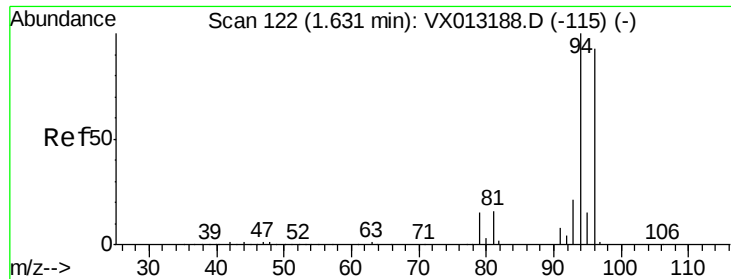
52 0.0 27.8 41.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.322 ug/l

RT: 1.64 min Scan# 124

Delta R.T. 0.01 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampled :

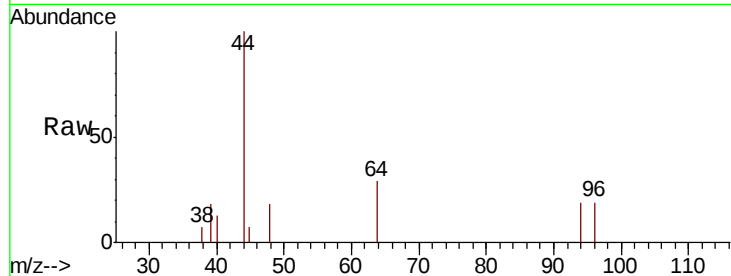
W-5

Tot Ion: 94 Resp: 216

Ion Ratio Lower Upper

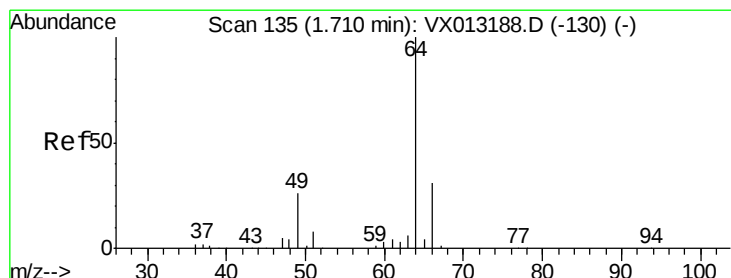
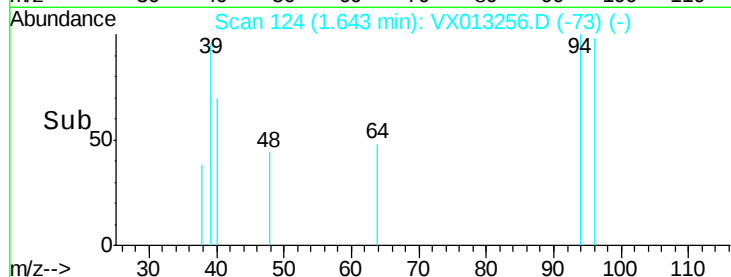
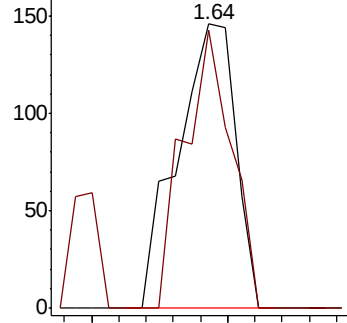
94 100

96 97.9 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.70 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX013256.D

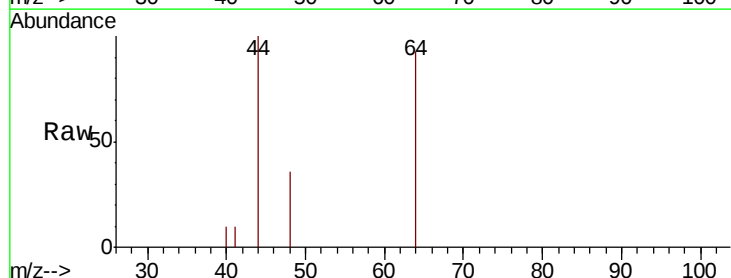
Acq: 28 Oct 2019 18:30

Tgt Ion: 64 Resp: 89

Ion Ratio Lower Upper

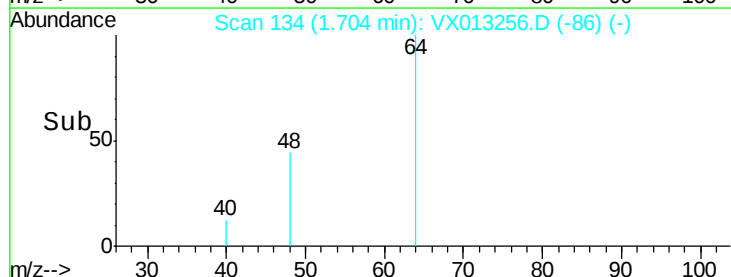
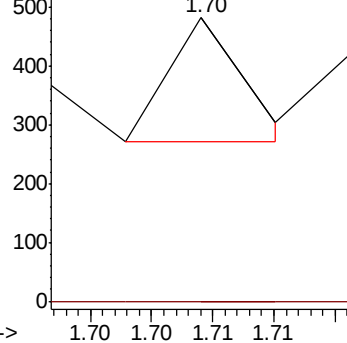
64 100

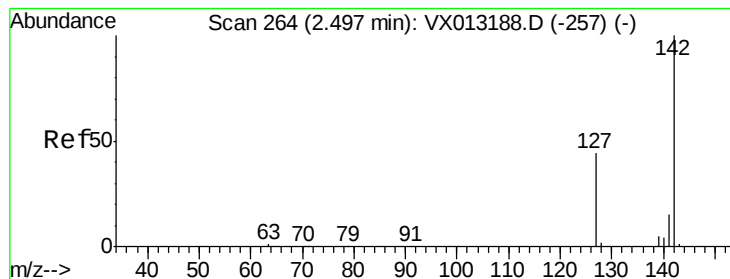
66 0.0 25.0 37.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methyl Iodide

Concen: 3.590 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.02 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

W-5

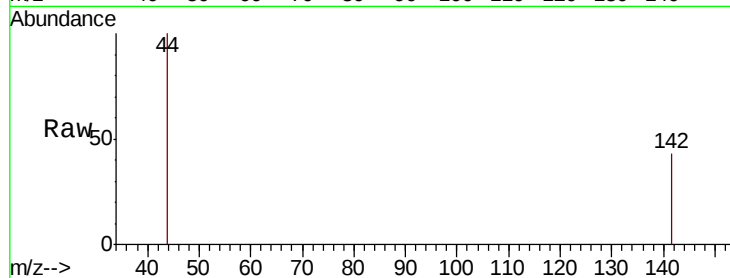
Tot Ion:142 Resp: 83

Ion Ratio Lower Upper

142 100

127 0.0 35.6 53.4#

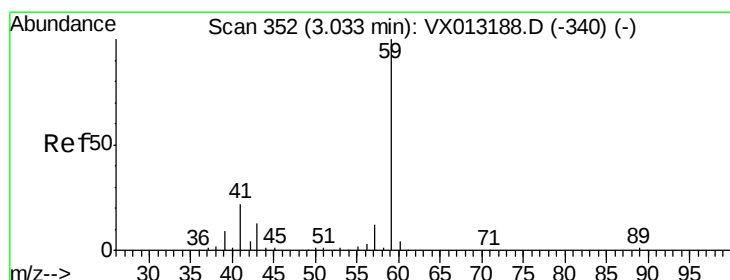
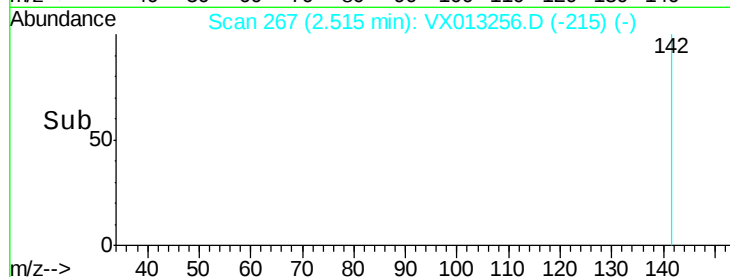
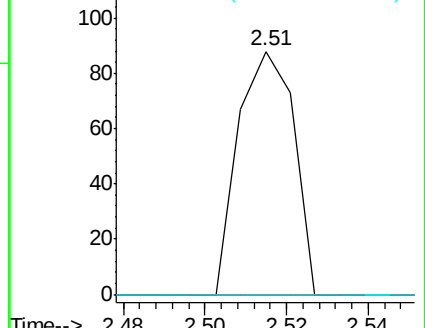
141 0.0 11.6 17.4#



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: 0.513 ug/l

RT: 3.01 min Scan# 348

Delta R.T. -0.02 min

Lab File: VX013256.D

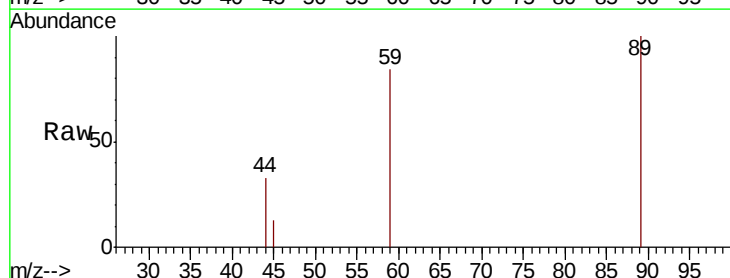
Acq: 28 Oct 2019 18:30

Tgt Ion: 59 Resp: 498

Ion Ratio Lower Upper

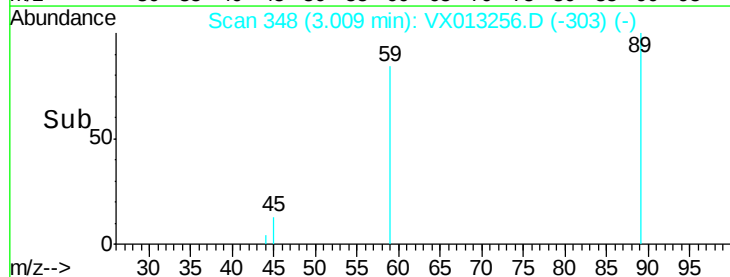
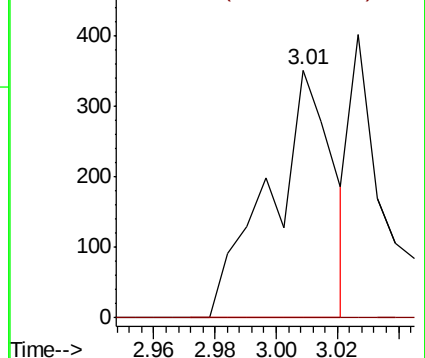
59 100

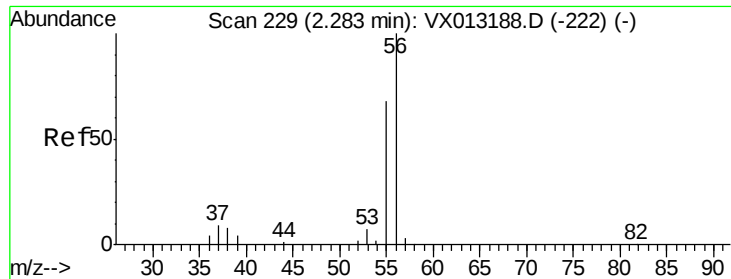
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.234 ug/l

RT: 2.21 min Scan# 217

Delta R.T. -0.07 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampled :

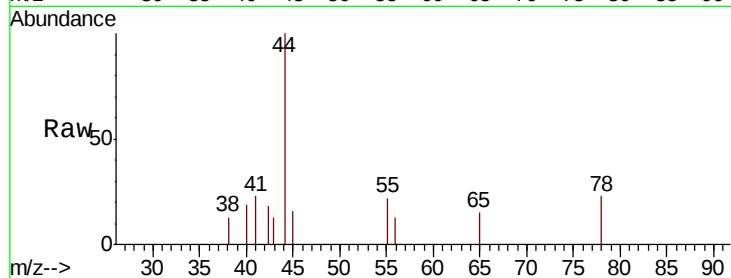
W-5

Tot Ion: 56 Resp: 40

Ion Ratio Lower Upper

56 100

55 317.5 58.9 88.3#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

150

100

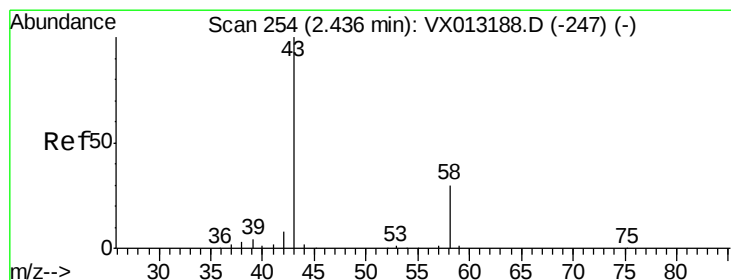
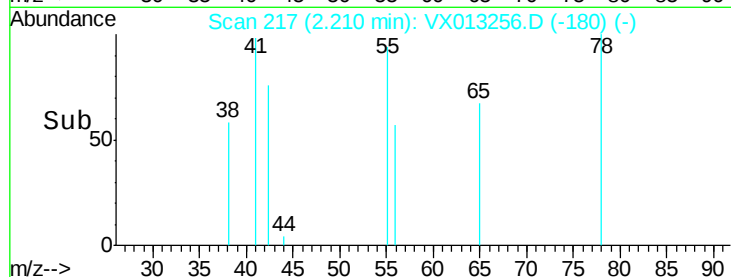
50

0

2.21

2.22

Time-->



#16

Acetone

Concen: 5.841 ug/l

RT: 2.44 min Scan# 254

Delta R.T. -0.00 min

Lab File: VX013256.D

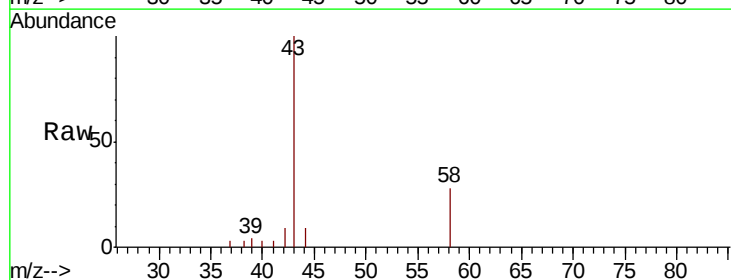
Acq: 28 Oct 2019 18:30

Tgt Ion: 43 Resp: 4015

Ion Ratio Lower Upper

43 100

58 27.9 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

1000

500

0

2.44

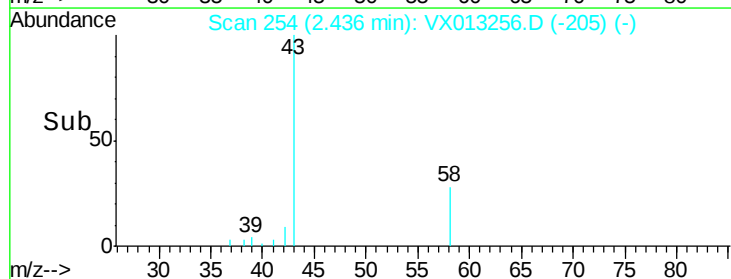
2.35

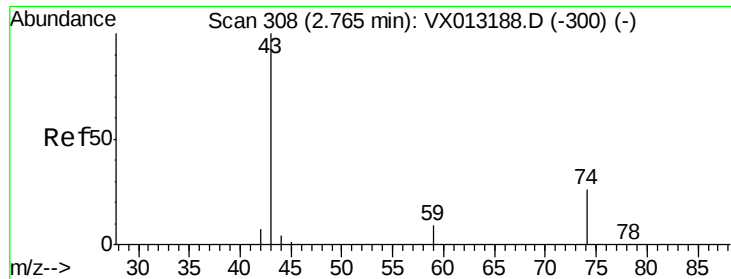
2.40

2.45

2.50

Time-->

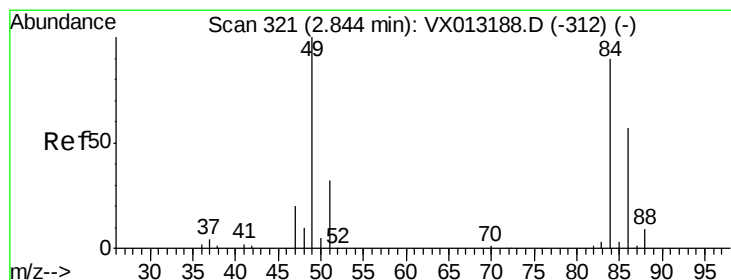
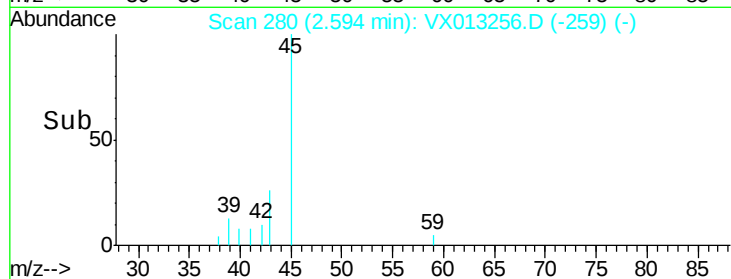
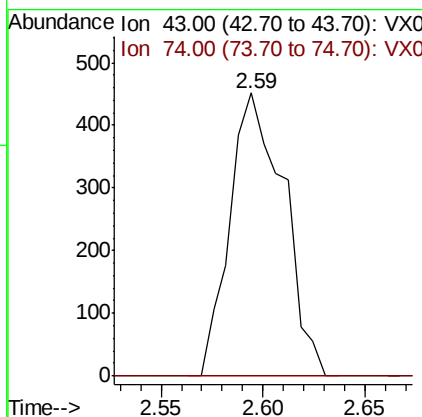
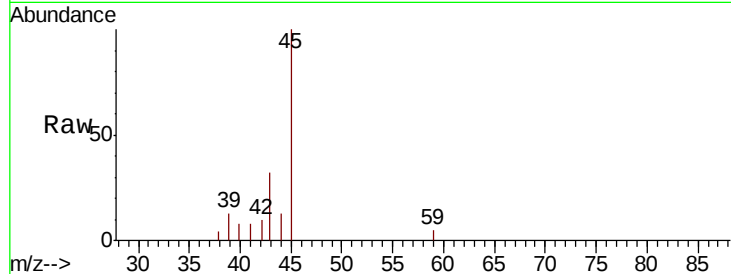




#18
Methvl Acetate
Concen: 1.509 ug/l
RT: 2.59 min Scan# 280
Delta R.T. -0.17 min
Lab File: VX013256.D
Acq: 28 Oct 2019 18:30

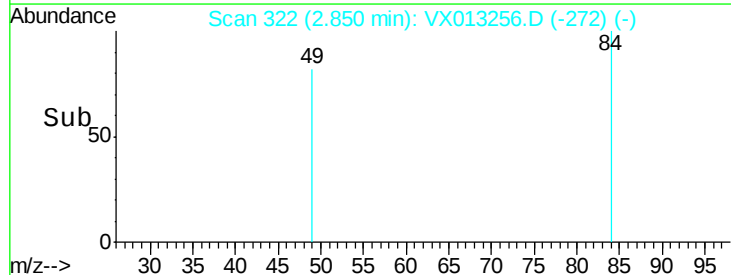
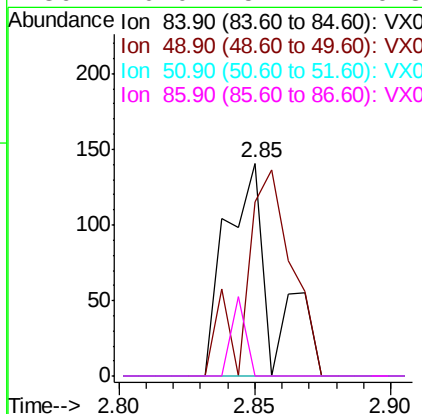
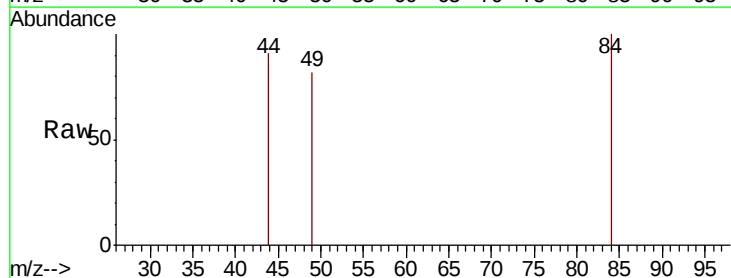
Instrument :
MSVOA_X
ClientSampleId :
W-5

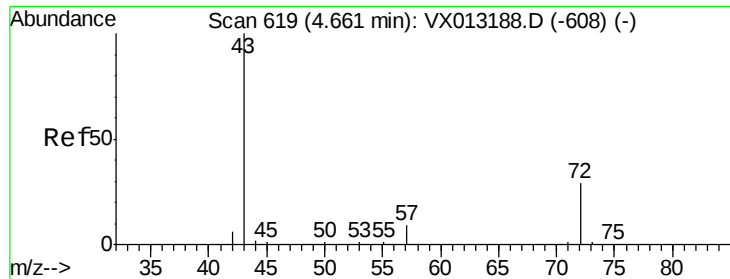
Tot Ion: 43 Resp: 827
Ion Ratio Lower Upper
43 100
74 0.0 20.9 31.3#



#20
Methylene Chloride
Concen: 0.416 ug/l
RT: 2.85 min Scan# 322
Delta R.T. 0.01 min
Lab File: VX013256.D
Acq: 28 Oct 2019 18:30

Tgt Ion: 84 Resp: 165
Ion Ratio Lower Upper
84 100
49 81.6 89.2 133.8#
51 0.0 28.8 43.2#
86 0.0 51.2 76.8#





#25

2-Butanone

Concen: 0.393 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

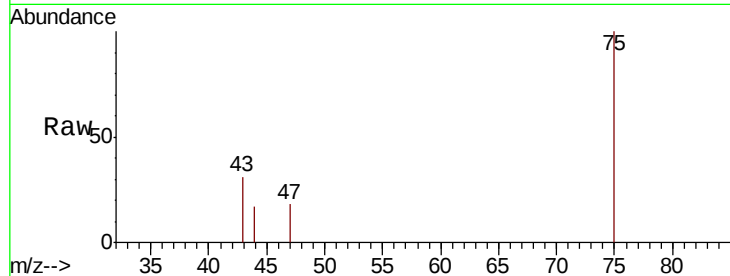
W-5

Tot Ion: 43 Resp: 362

Ion Ratio Lower Upper

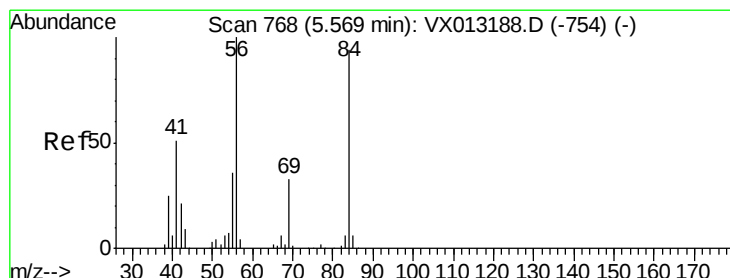
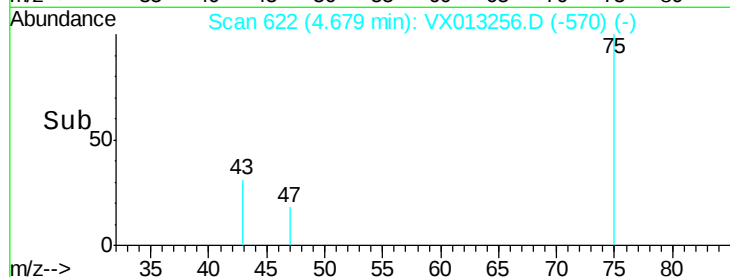
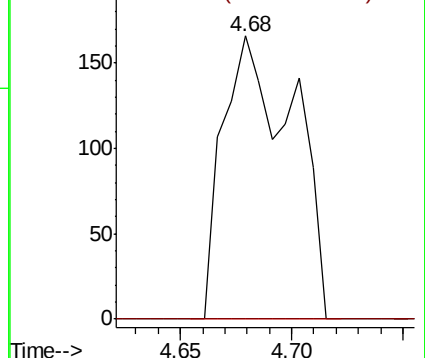
43 100

72 0.0 23.4 35.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#31

Cyclohexane

Concen: 0.680 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.08 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

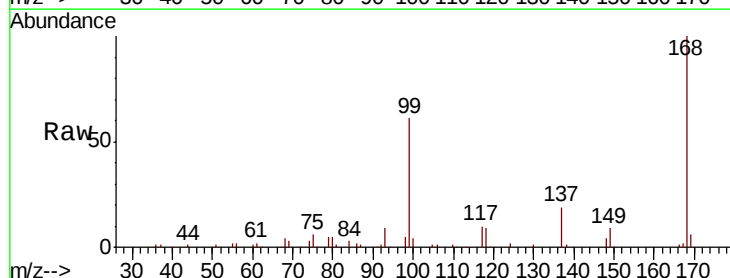
Tgt Ion: 56 Resp: 1284

Ion Ratio Lower Upper

56 100

69 150.1 26.3 39.5#

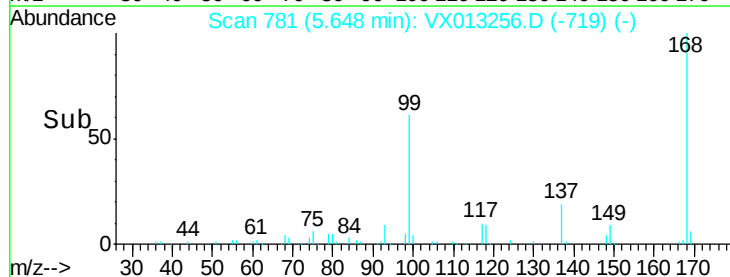
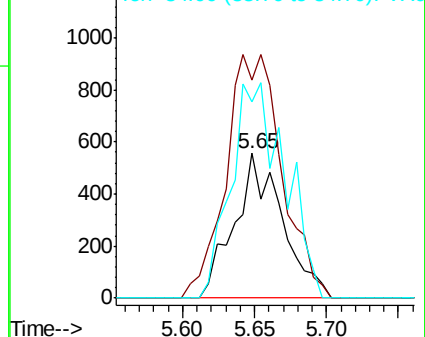
84 135.0 73.8 110.6#

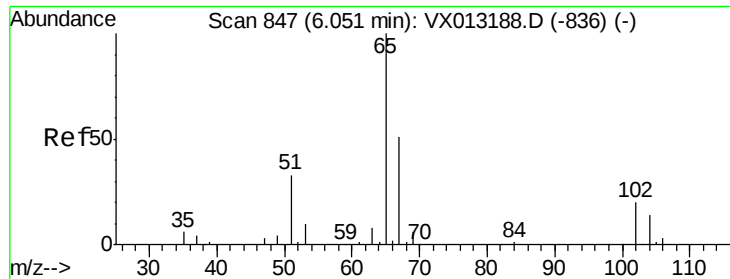


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

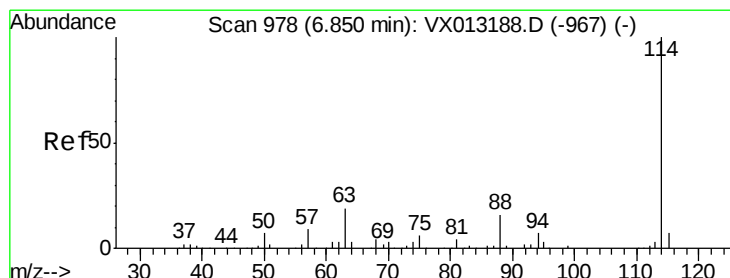
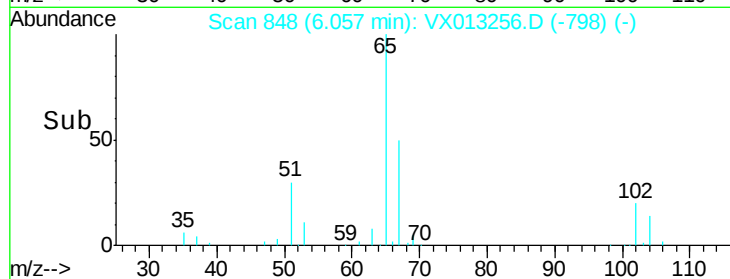
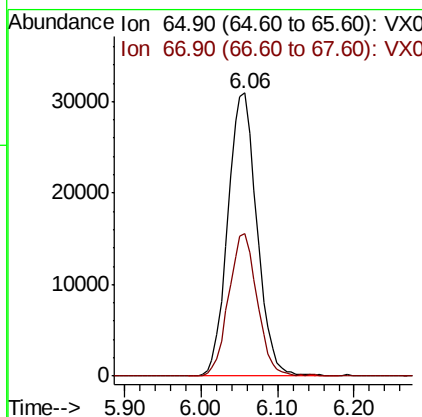
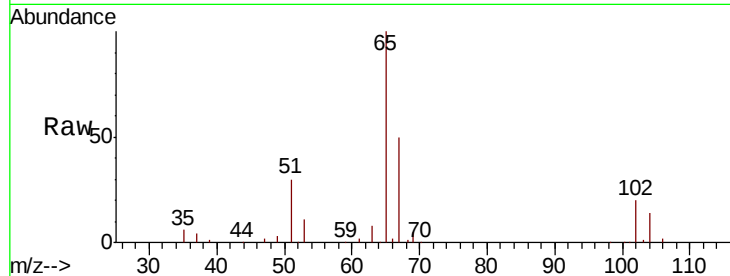




#33
 1,2-Dichloroethane-d4
 Concen: 55.858 ug/l
 RT: 6.06 min Scan# 848
 Delta R.T. 0.01 min
 Lab File: VX013256.D
 Acq: 28 Oct 2019 18:30

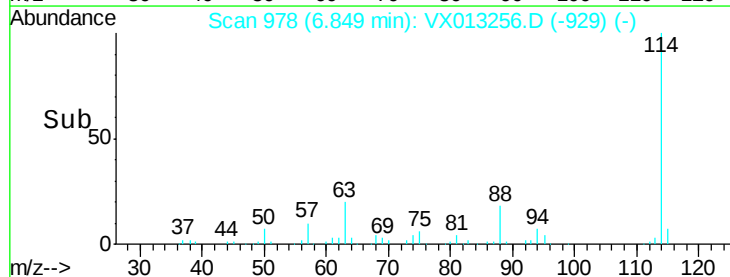
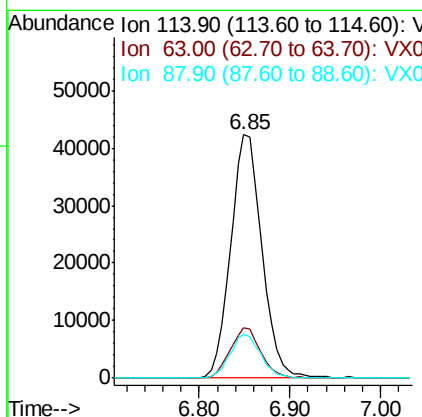
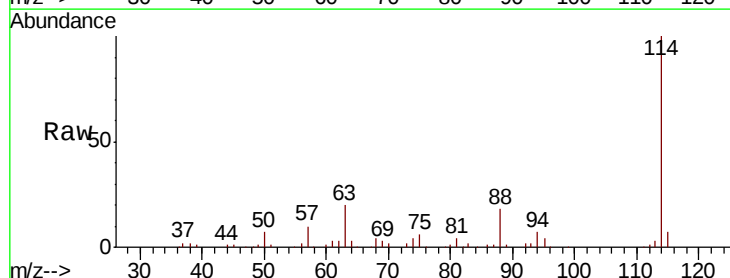
Instrument :
 MSVOA_X
 ClientSampleId :
 W-5

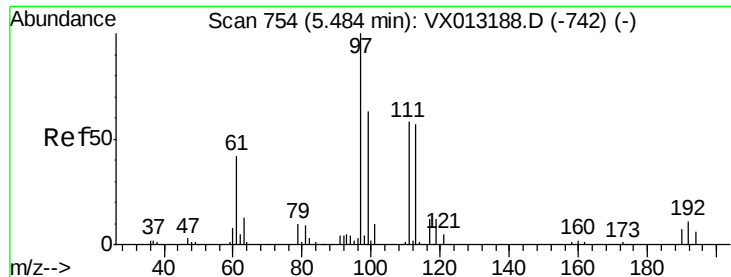
Tot Ion: 65 Resp: 81501
 Ion Ratio Lower Upper
 65 100
 67 49.2 0.0 102.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: VX013256.D
 Acq: 28 Oct 2019 18:30

Tgt Ion: 114 Resp: 101325
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 39.0
 88 17.8 0.0 32.0





#35

Dibromofluoromethane

Concen: 54.053 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.01 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

W-5

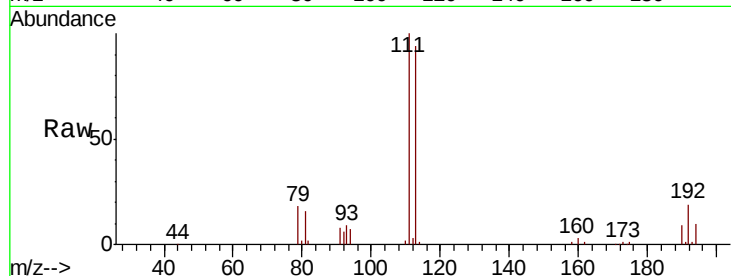
Tot Ion:113 Resp: 61076

Ion Ratio Lower Upper

113 100

111 102.2 80.3 120.5

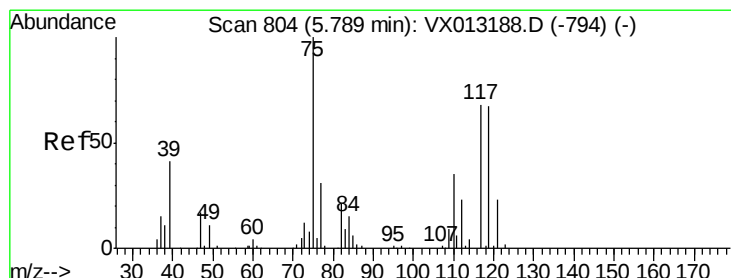
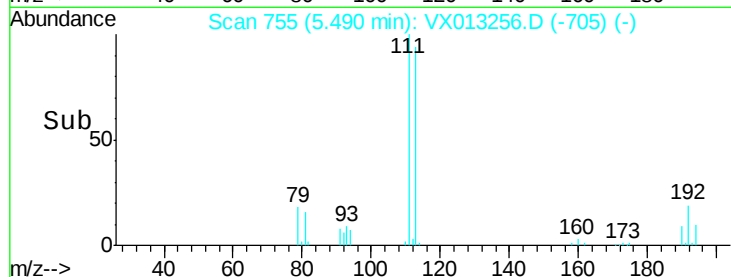
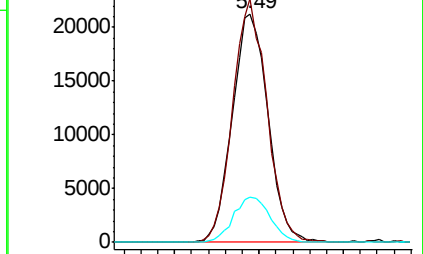
192 20.3 15.9 23.9



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: 3.044 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

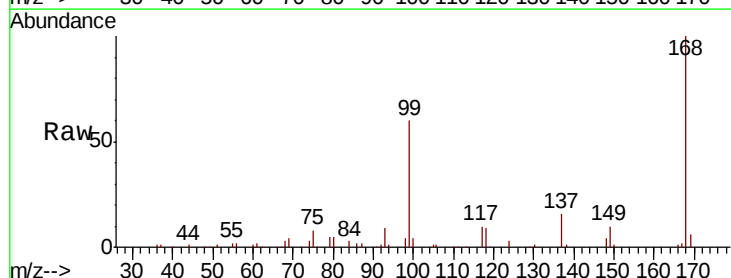
Tgt Ion: 75 Resp: 5285

Ion Ratio Lower Upper

75 100

110 6.2 17.6 52.9#

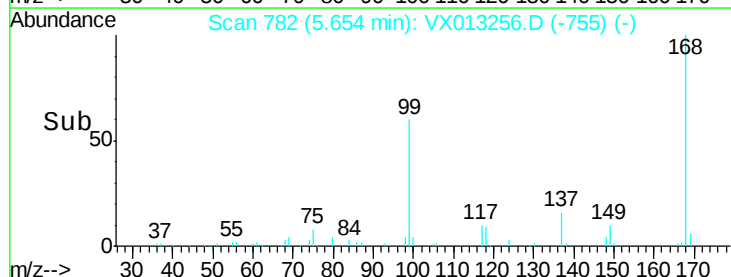
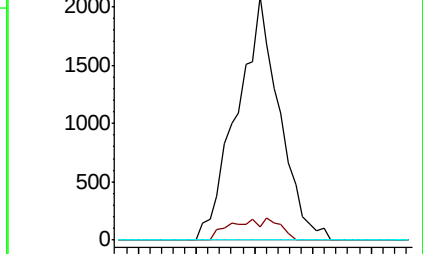
77 0.0 24.7 37.1#

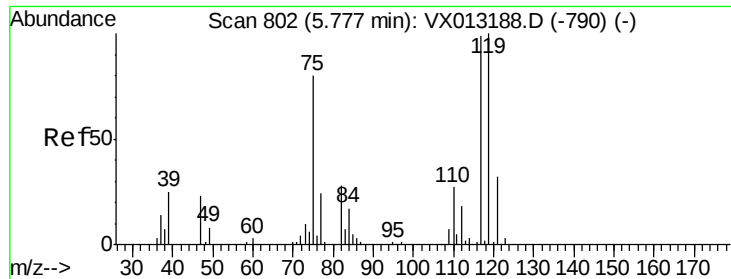


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 3.939 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

W-5

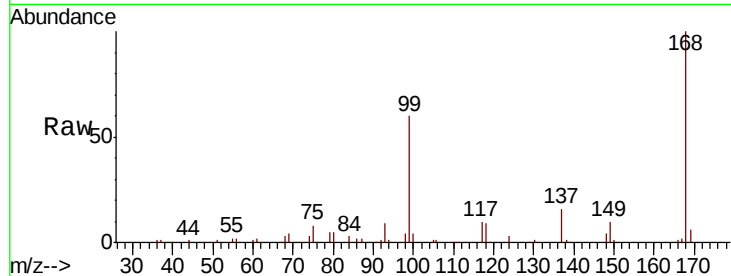
Tot Ion:117 Resp: 7377

Ion Ratio Lower Upper

117 100

119 2.1 80.1 120.1#

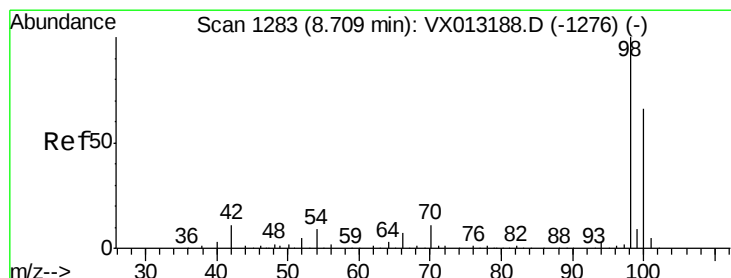
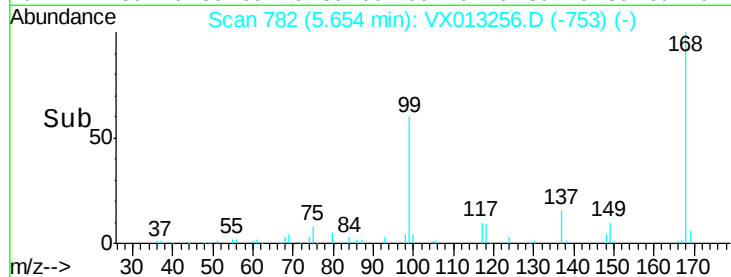
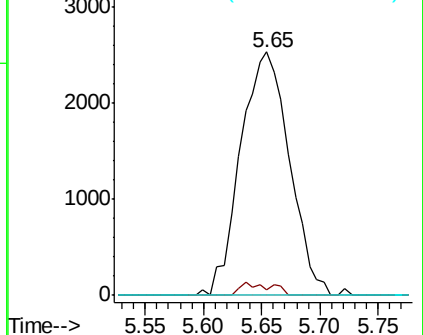
121 0.0 25.5 38.3#



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



#50

Toluene-d8

Concen: 51.673 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013256.D

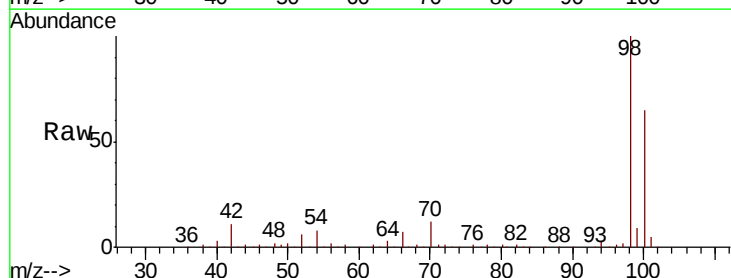
Acq: 28 Oct 2019 18:30

Tgt Ion: 98 Resp: 216373

Ion Ratio Lower Upper

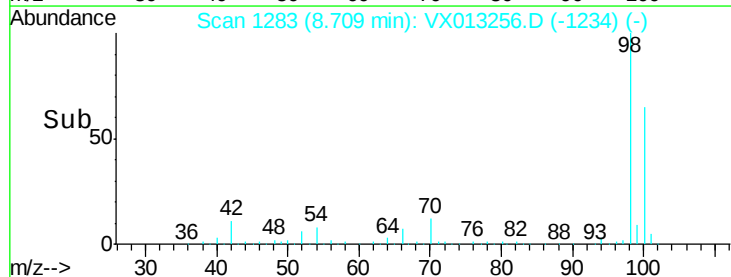
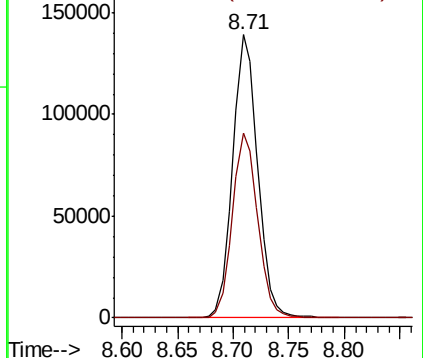
98 100

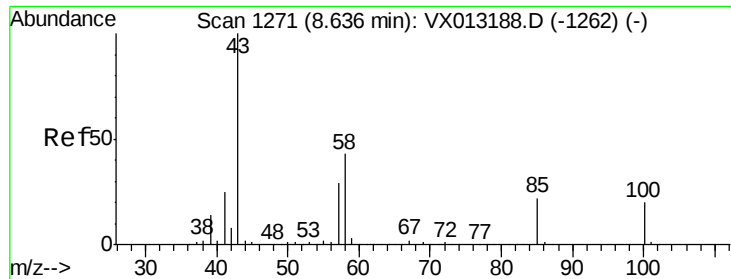
100 66.2 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 0.502 ug/l

RT: 8.71 min Scan# 1284

Delta R.T. 0.08 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

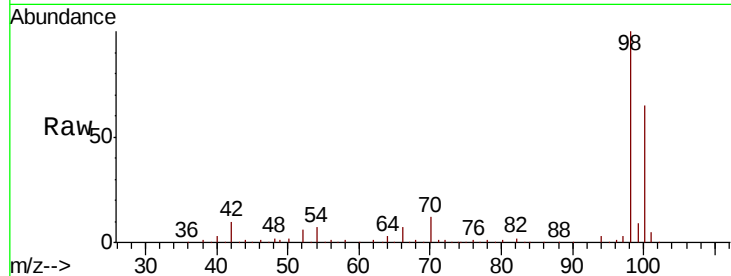
W-5

Tot Ion: 43 Resp: 858

Ion Ratio Lower Upper

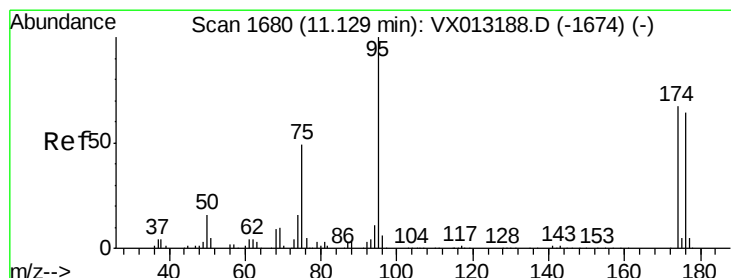
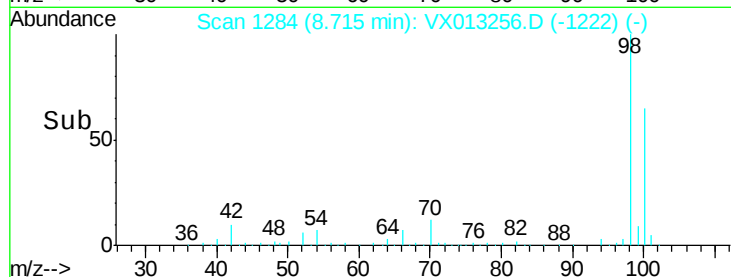
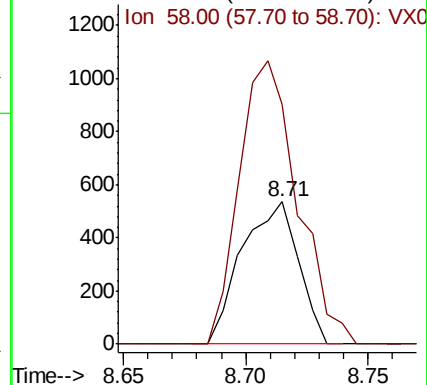
43 100

58 205.6 33.9 50.9#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#62

4-Bromofluorobenzene

Concen: 49.117 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

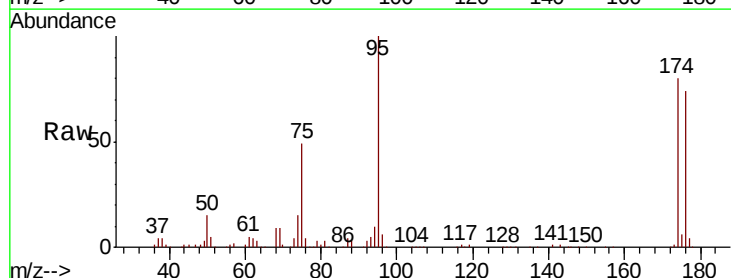
Tgt Ion: 95 Resp: 81405

Ion Ratio Lower Upper

95 100

174 77.6 0.0 152.4

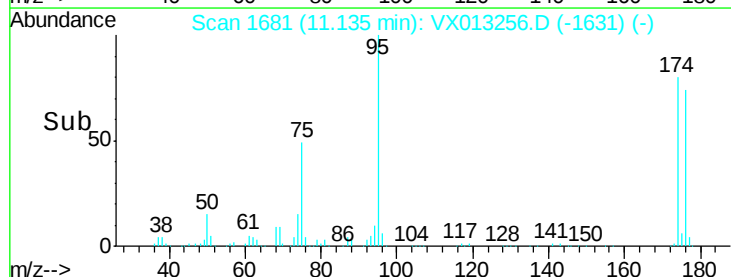
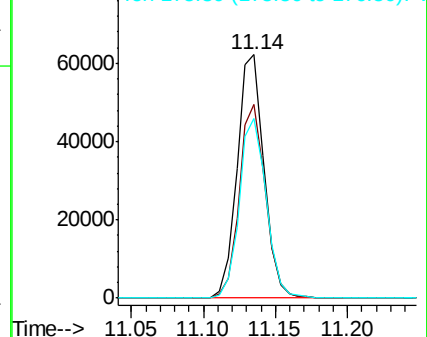
176 73.4 0.0 146.0

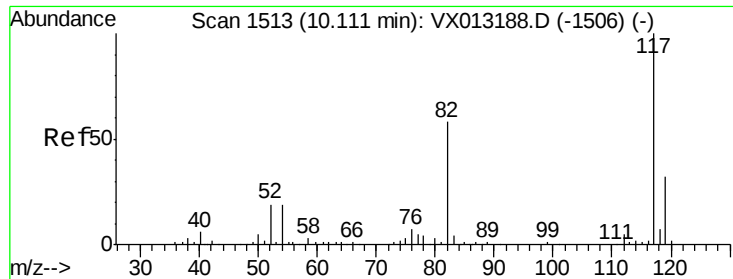


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

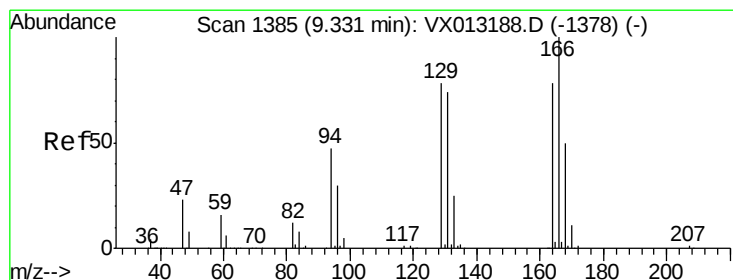
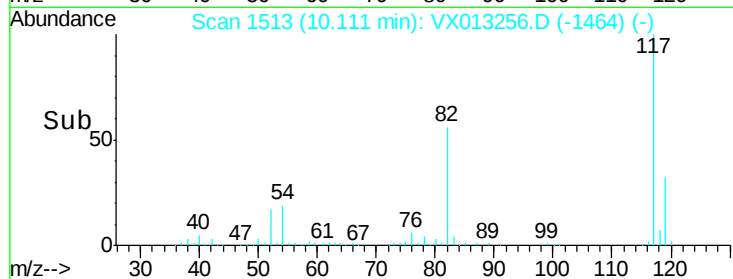
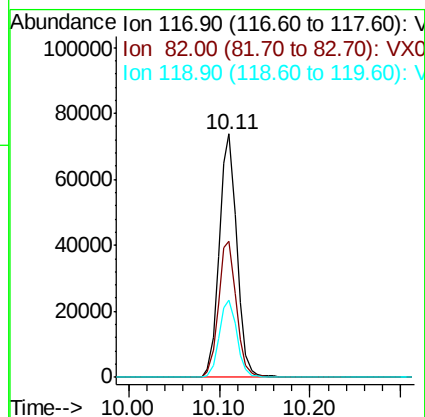
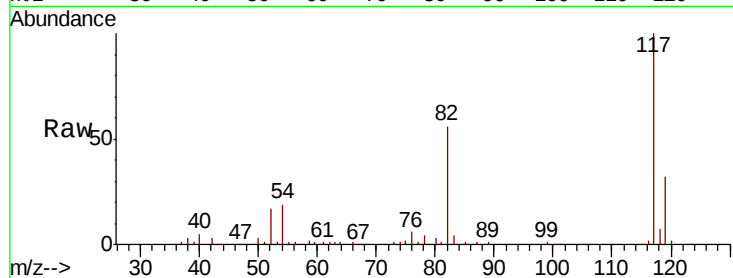




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013256.D
Acq: 28 Oct 2019 18:30

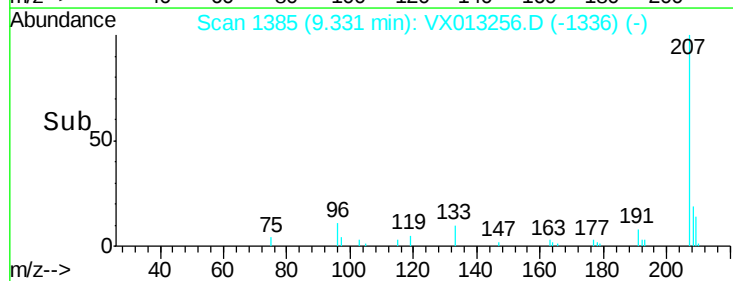
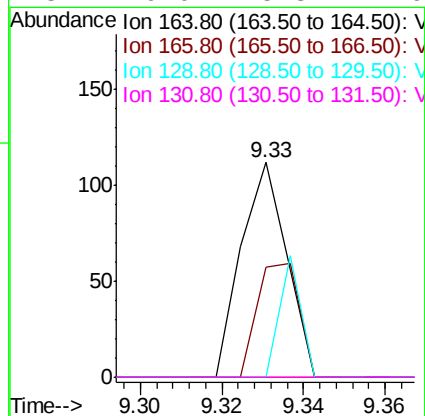
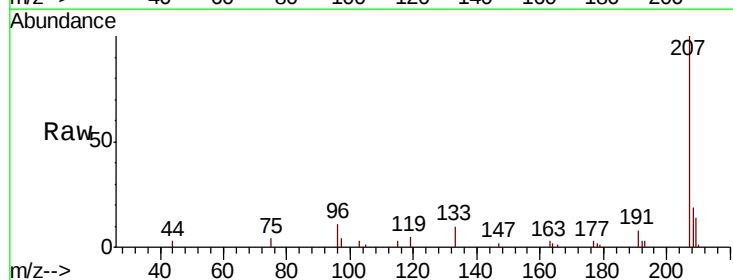
Instrument :
MSVOA_X
ClientSampled :
W-5

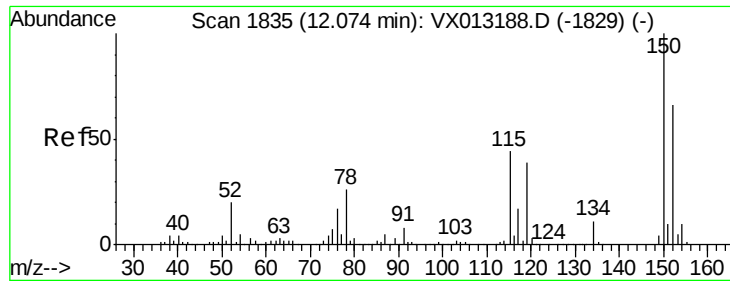
Tot Ion:117 Resp: 100417
Ion Ratio Lower Upper
117 100
82 55.7 46.5 69.7
119 31.9 25.2 37.8



#64
Tetrachloroethene
Concen: Below Cal
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX013256.D
Acq: 28 Oct 2019 18:30

Tgt Ion:164 Resp: 86
Ion Ratio Lower Upper
164 100
166 50.9 102.2 153.4#
129 0.0 79.8 119.8#
131 0.0 75.3 112.9#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

W-5

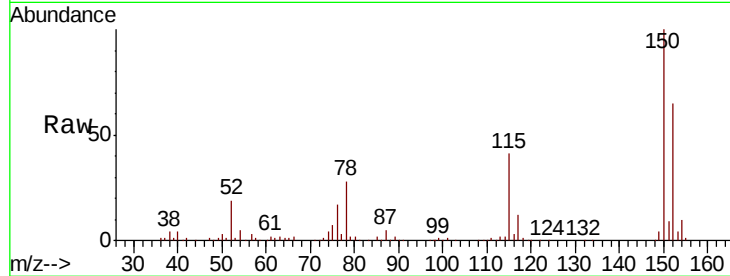
Tot Ion:152 Resp: 63271

Ion Ratio Lower Upper

152 100

115 64.7 46.6 139.8

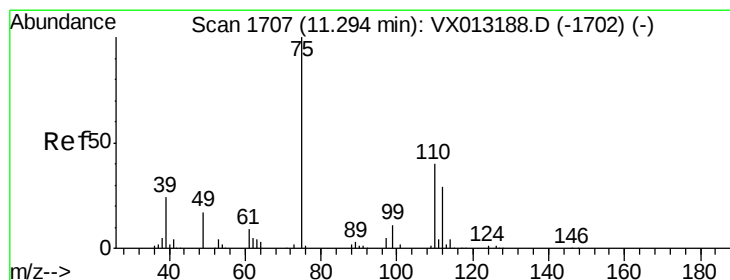
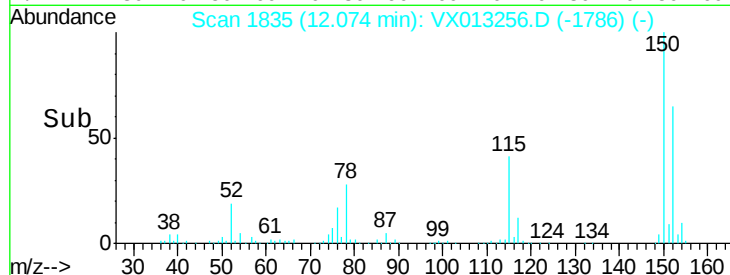
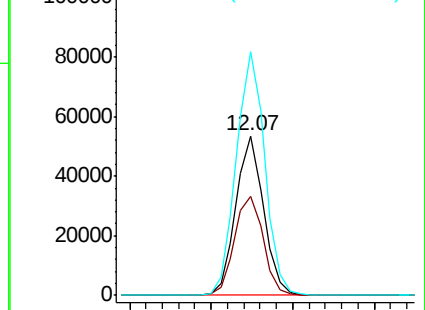
150 157.3 0.0 354.0



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.196 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013256.D

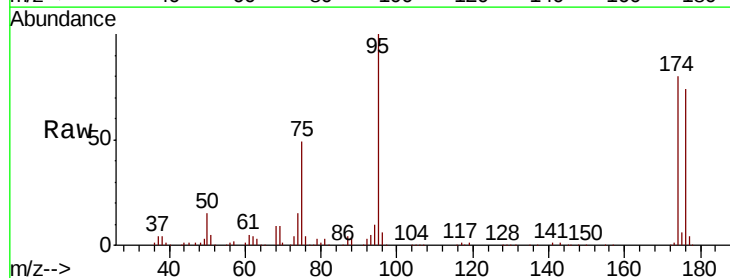
Acq: 28 Oct 2019 18:30

Tgt Ion: 75 Resp: 39947

Ion Ratio Lower Upper

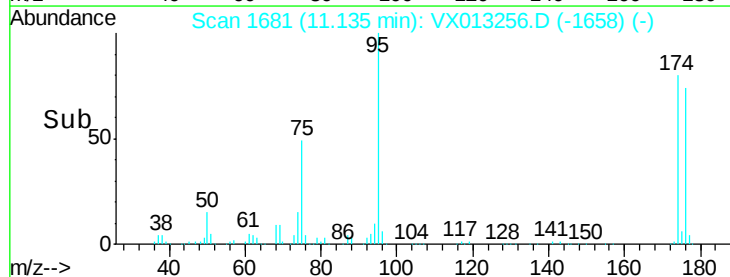
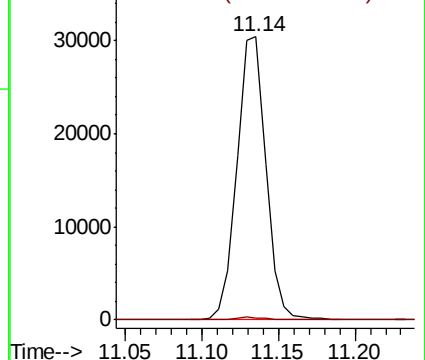
75 100

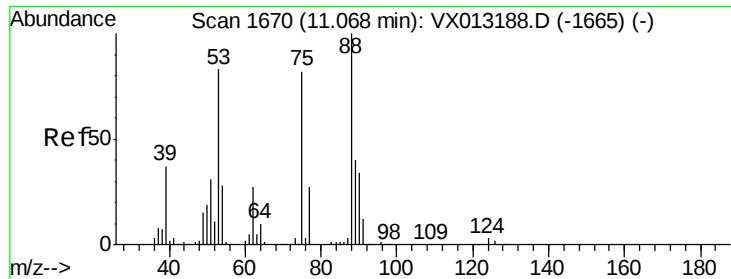
77 1.0 19.1 57.5#



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: 71.984 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

W-5

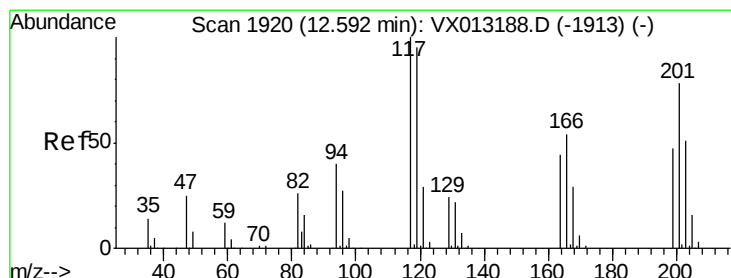
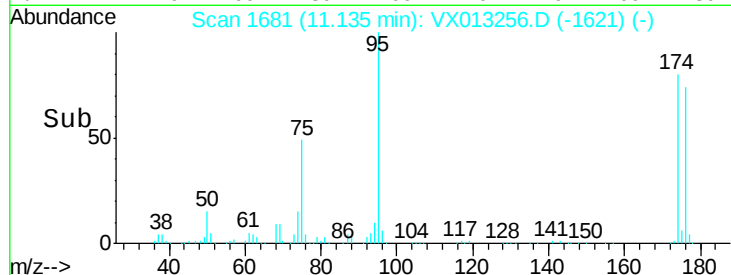
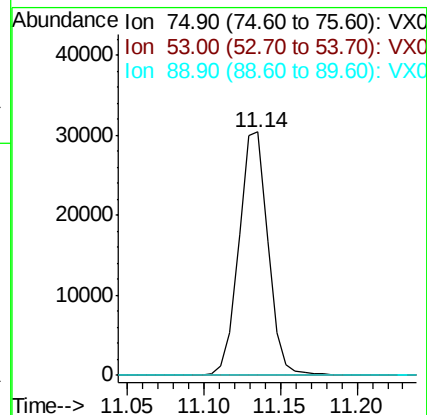
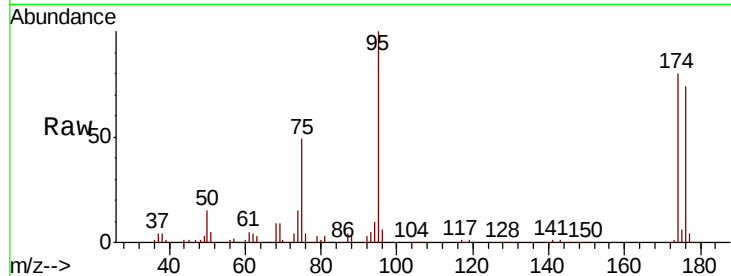
Tot Ion: 75 Resp: 39947

Ion Ratio Lower Upper

75 100

53 0.0 77.9 116.9#

89 0.1 37.3 55.9#



#90

Hexachloroethane

Concen: 0.274 ug/l

RT: 12.75 min Scan# 1946

Delta R.T. 0.16 min

Lab File: VX013256.D

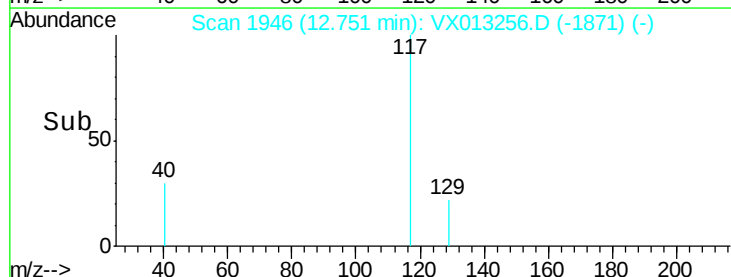
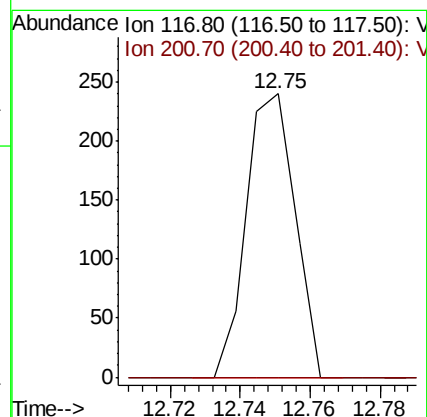
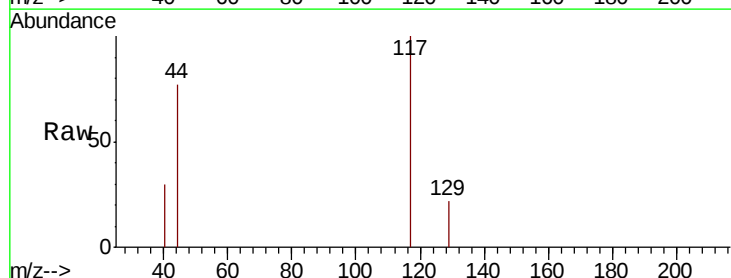
Acq: 28 Oct 2019 18:30

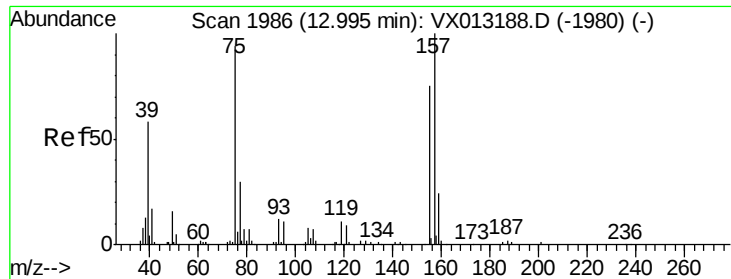
Tgt Ion: 117 Resp: 232

Ion Ratio Lower Upper

117 100

201 0.0 39.0 116.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.244 ug/l

RT: 12.80 min Scan# 1954

Delta R.T. -0.20 min

Lab File: VX013256.D

Acq: 28 Oct 2019 18:30

Instrument :

MSVOA_X

ClientSampleId :

W-5

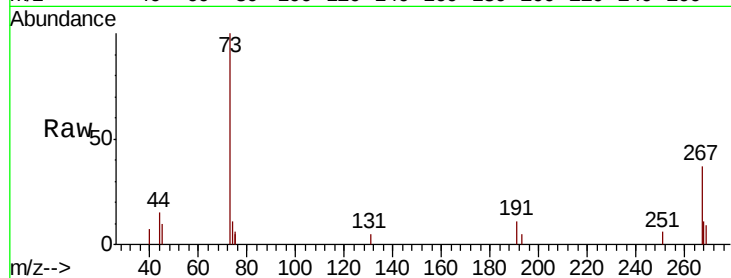
Tot Ion: 75 Resp: 106

Ion Ratio Lower Upper

75 100

155 0.0 42.8 128.4#

157 0.0 54.3 162.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

