

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091819\
 Data File : VX012492.D
 Acq On : 18 Sep 2019 23:11
 Operator : JC/SP
 Sample : VX0918WBL02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0918WBL02

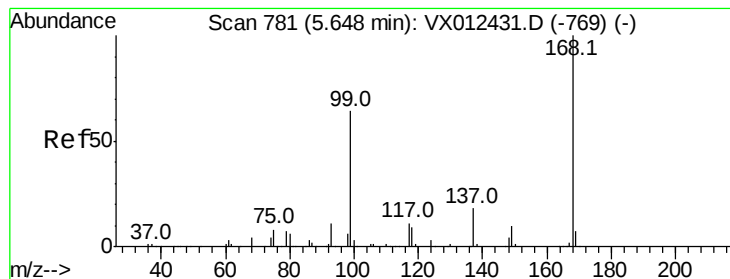
Quant Time: Sep 19 06:06:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 17 15:27:10 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	196057	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	306058	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	259632	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	101984	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	126996	45.20	ug/l	0.00
Spiked Amount			Recovery	=	90.40%	
35) Dibromofluoromethane	5.49	113	91016	49.13	ug/l	0.00
Spiked Amount			Recovery	=	98.26%	
50) Toluene-d8	8.71	98	351027	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	11.14	95	125689	44.15	ug/l	0.00
Spiked Amount			Recovery	=	88.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	149	0.504	ug/l	81
5) Bromomethane	1.64	94	288	0.629	ug/l #	71
6) Chloroethane	1.68	64	263	0.288	ug/l #	45
8) Diethyl Ether	2.23	74	226	0.234	ug/l	59
10) Methyl Iodide	2.51	142	488	4.777	ug/l #	72
11) Tert butyl alcohol	3.00	59	5461	1.835	ug/l #	81
13) Acrolein	2.28	56	149	Below Cal	#	1
15) Acrylonitrile	3.12	53	279	0.229	ug/l #	45
16) Acetone	2.44	43	1255	Below Cal	#	88
17) Carbon Disulfide	2.56	76	773	2.234	ug/l #	75
20) Methylene Chloride	2.85	84	525	0.309	ug/l #	69
36) 1,1-Dichloropropene	5.65	75	17076	9.180	ug/l #	53
38) Carbon Tetrachloride	5.66	117	21503	9.295	ug/l #	16
49) 1,4-Dioxane	7.87	88	46	0.782	ug/l #	1
71) Bromoform	11.12	173	43	2.896	ug/l #	29
76) 1,2,3-Trichloropropane	11.13	75	64217	27.412	ug/l #	38
81) trans-1,4-Dichloro-2-buten	11.13	75	64217	73.693	ug/l #	8

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

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ClientSampleId :

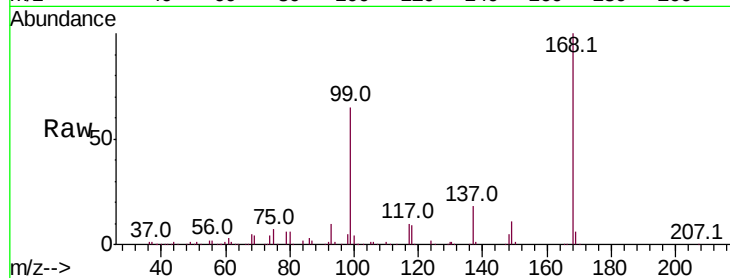
VX0918WBL02

Tot Ion:168 Resp: 196057

Ion Ratio Lower Upper

168 100

99 64.9 51.4 77.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

80000

60000

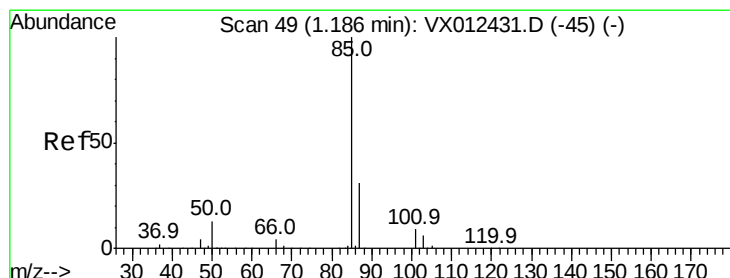
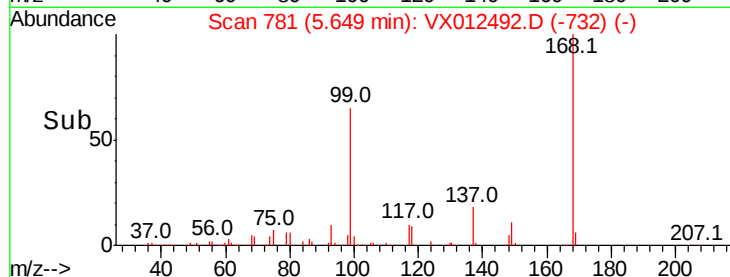
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.504 ug/l

RT: 1.20 min Scan# 51

Delta R.T. 0.01 min

Lab File: VX012492.D

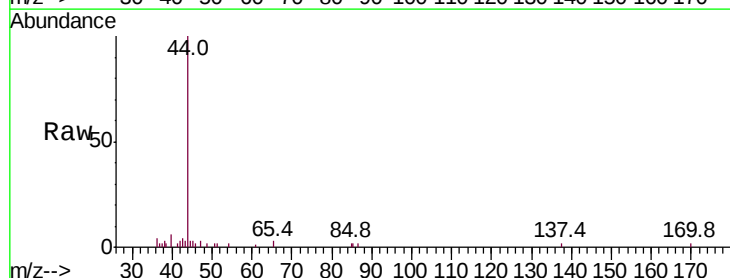
Acq: 18 Sep 2019 23:11

Tgt Ion: 85 Resp: 149

Ion Ratio Lower Upper

85 100

87 41.4 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

150

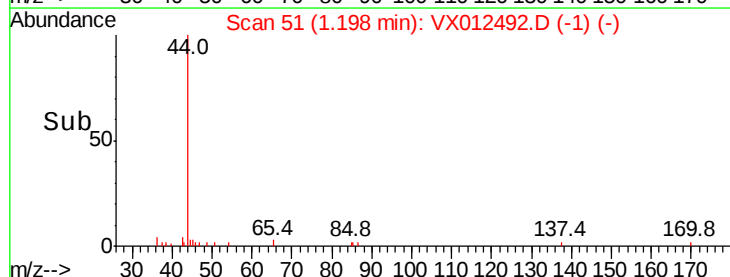
100

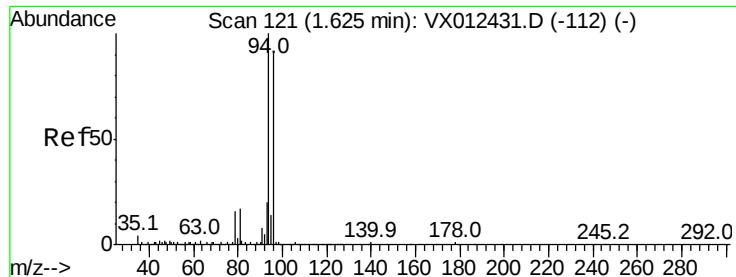
50

0

Time-->

1.16 1.18 1.20 1.22





#5

Bromomethane

Concen: 0.629 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

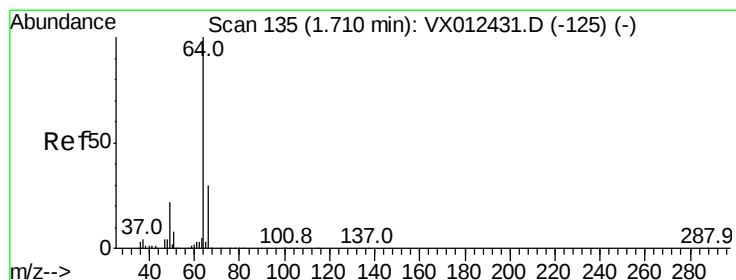
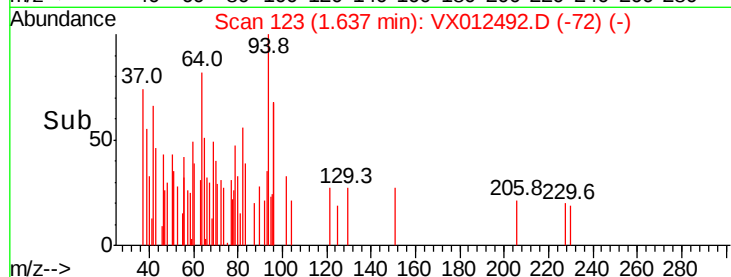
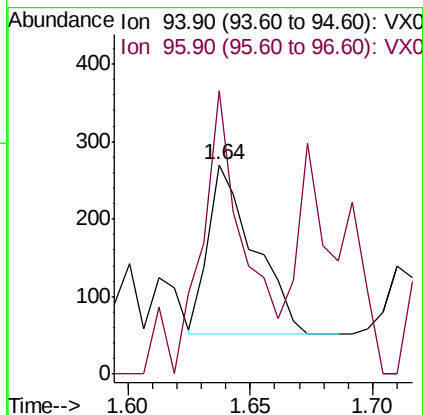
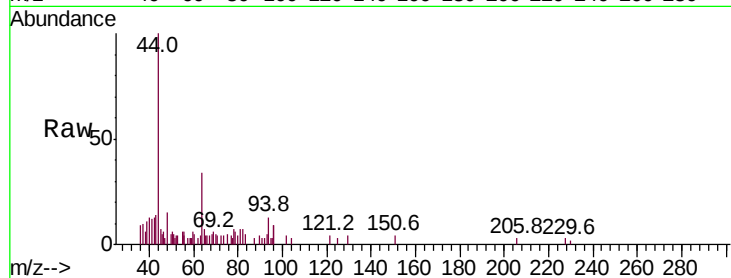
VX0918WBL02

Tot Ion: 94 Resp: 288

Ion Ratio Lower Upper

94 100

96 118.7 72.8 109.2#



#6

Chloroethane

Concen: 0.288 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.03 min

Lab File: VX012492.D

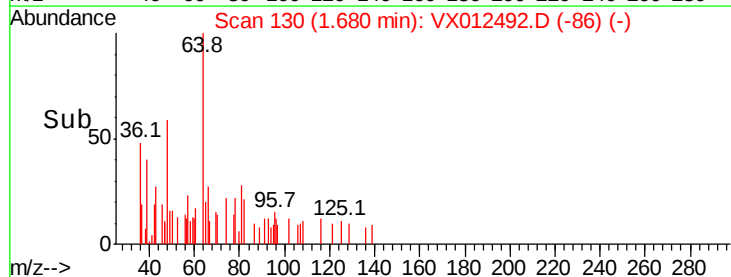
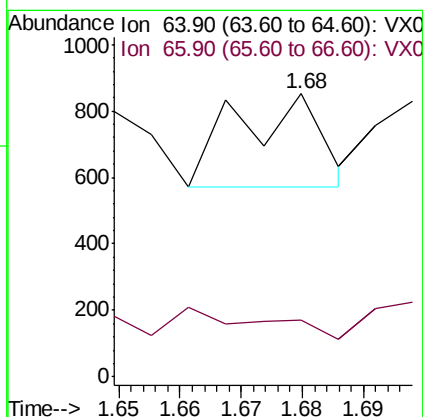
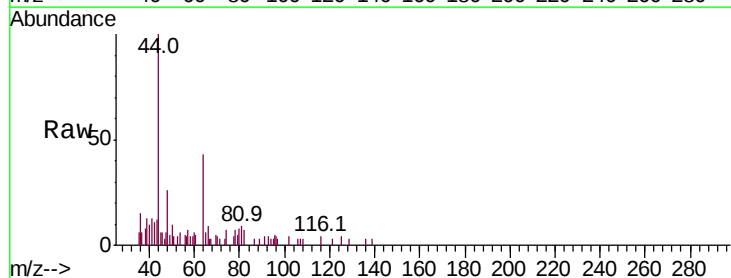
Acq: 18 Sep 2019 23:11

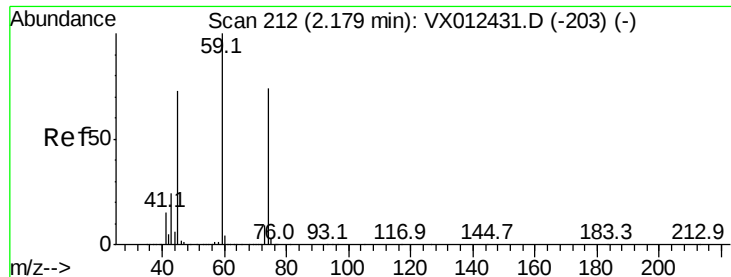
Tgt Ion: 64 Resp: 263

Ion Ratio Lower Upper

64 100

66 0.0 24.0 36.0#





#8

Diethyl Ether

Concen: 0.234 ug/l

RT: 2.23 min Scan# 221

Delta R.T. 0.06 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

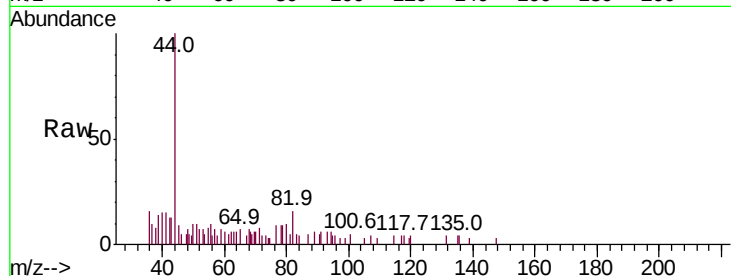
VX0918WBL02

Tot Ion: 74 Resp: 226

Ion Ratio Lower Upper

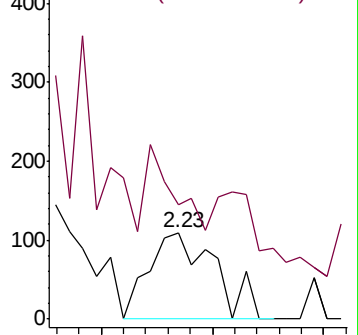
74 100

45 58.8 49.9 149.7

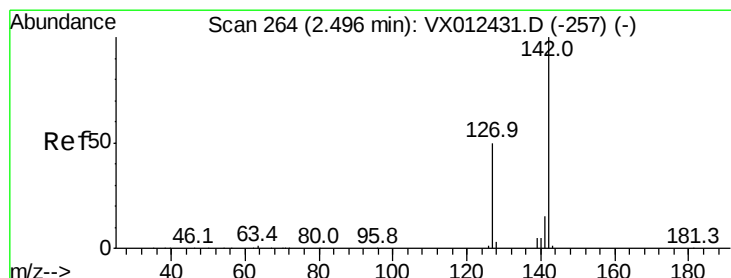
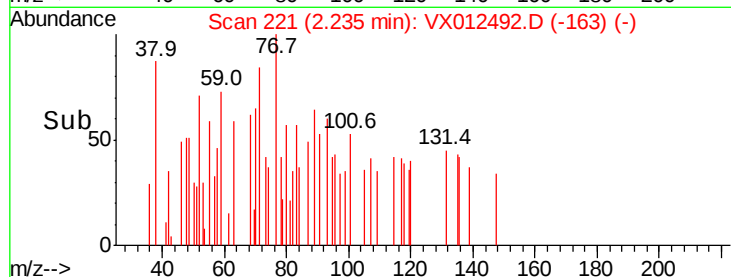


Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->



#10

Methyl Iodide

Concen: 4.777 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

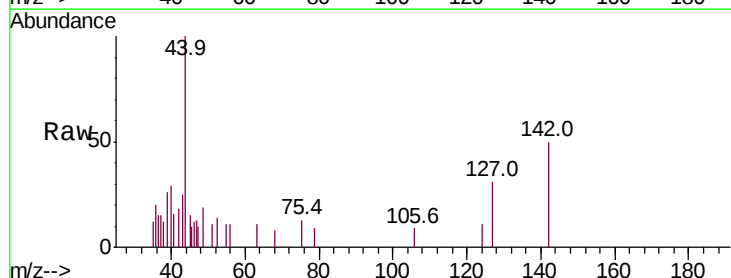
Tgt Ion: 142 Resp: 488

Ion Ratio Lower Upper

142 100

127 69.1 40.8 61.2#

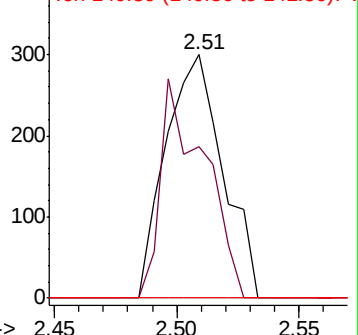
141 0.0 12.1 18.1#



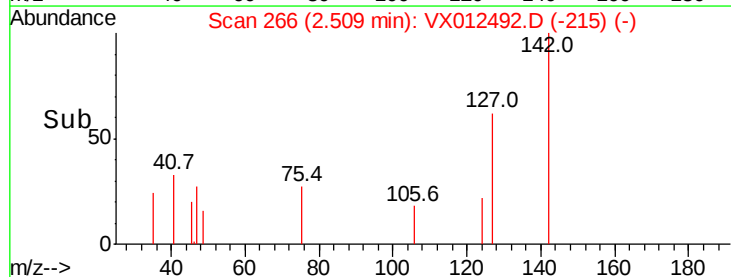
Abundance Ion 141.80 (141.50 to 142.50): V

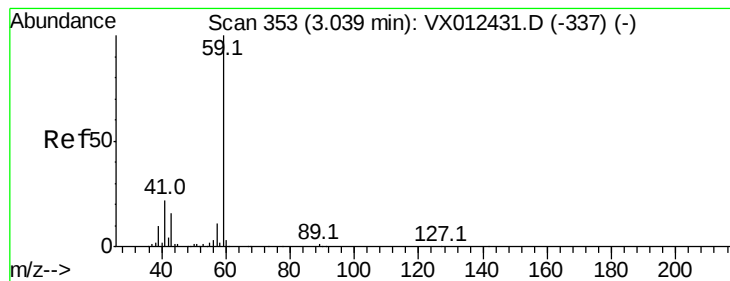
Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



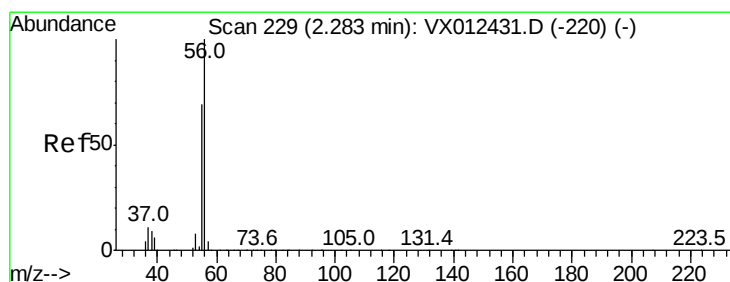
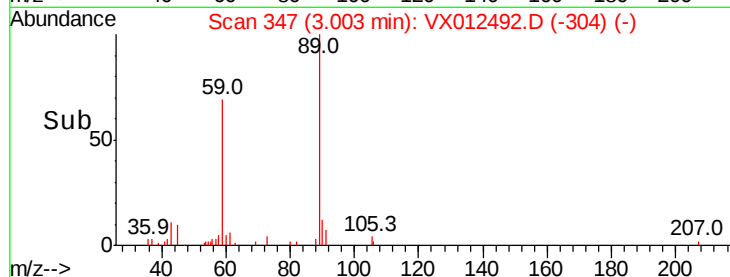
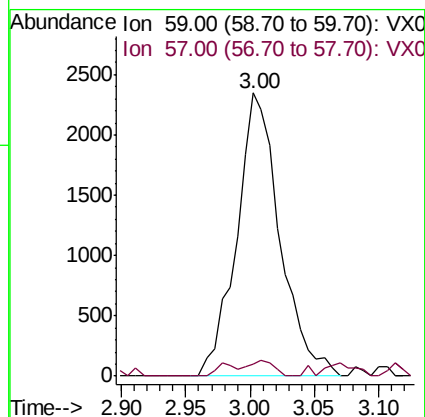
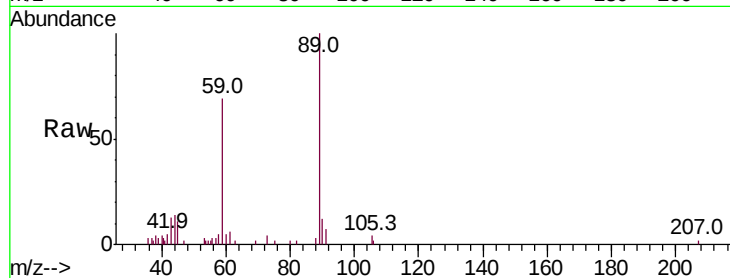


#11

Tert butyl alcohol
 Concen: 1.835 ug/l
 RT: 3.00 min Scan# 347
 Delta R.T. -0.04 min
 Lab File: VX012492.D
 Acq: 18 Sep 2019 23:11

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0918WBL02

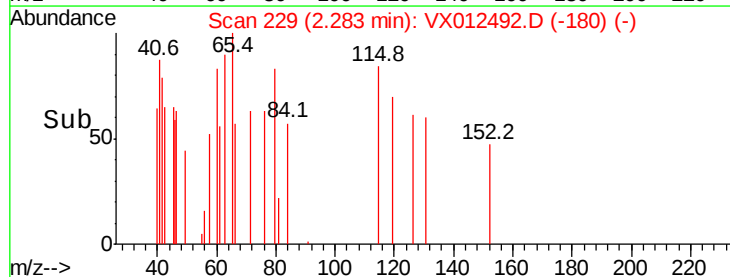
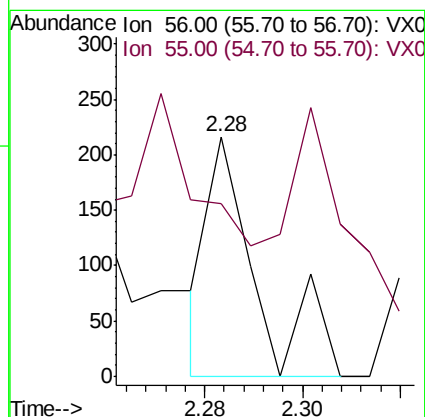
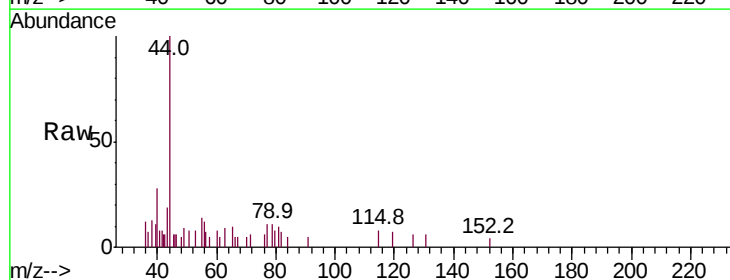
Tot Ion: 59 Resp: 5461
 Ion Ratio Lower Upper
 59 100
 57 3.2 8.3 12.5#

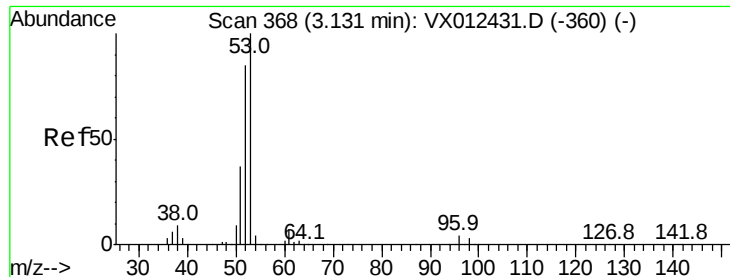


#13

Acrolein
 Concen: Below Cal
 RT: 2.28 min Scan# 229
 Delta R.T. 0.00 min
 Lab File: VX012492.D
 Acq: 18 Sep 2019 23:11

Tgt Ion: 56 Resp: 149
 Ion Ratio Lower Upper
 56 100
 55 167.1 55.8 83.8#





#15

Acrylonitrile

Concen: 0.229 ug/l

RT: 3.12 min Scan# 366

Delta R.T. -0.01 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL02

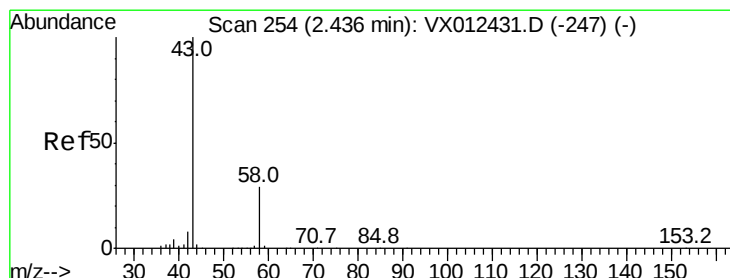
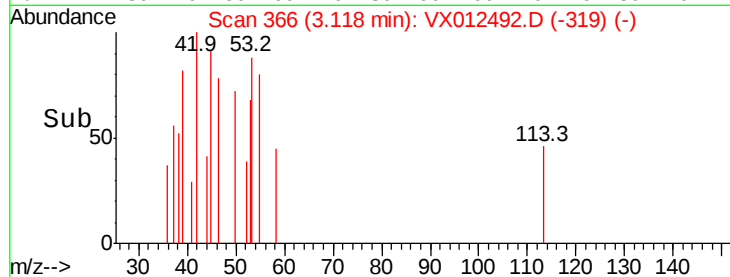
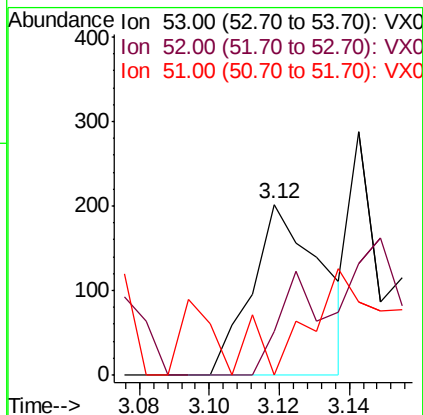
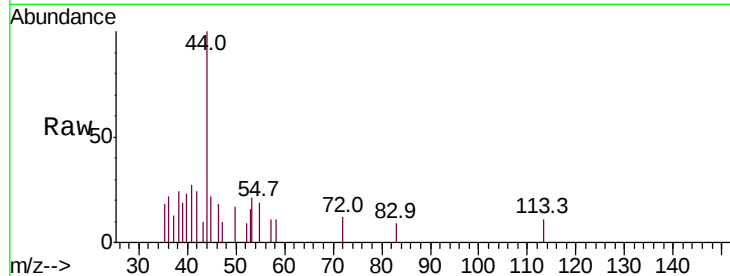
Tot Ion: 53 Resp: 279

Ion Ratio Lower Upper

53 100

52 31.2 67.0 100.4#

51 9.3 29.6 44.4#



#16

Acetone

Concen: Below Cal

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX012492.D

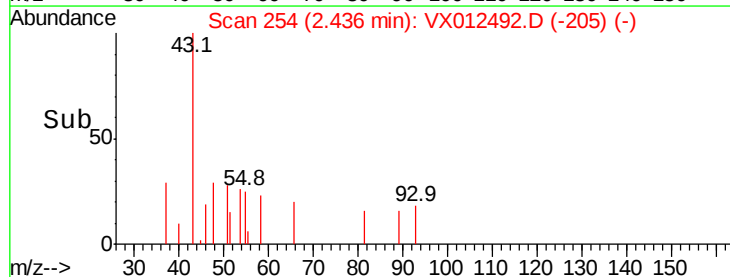
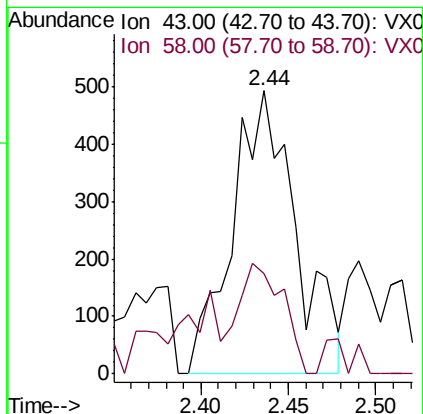
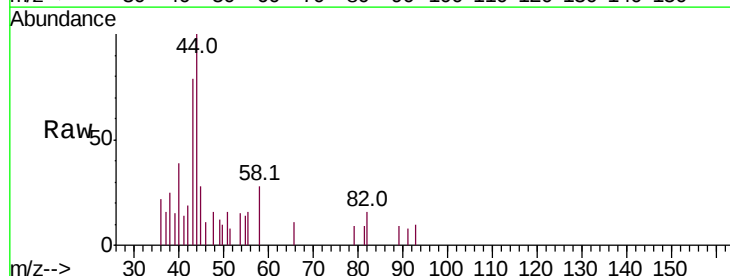
Acq: 18 Sep 2019 23:11

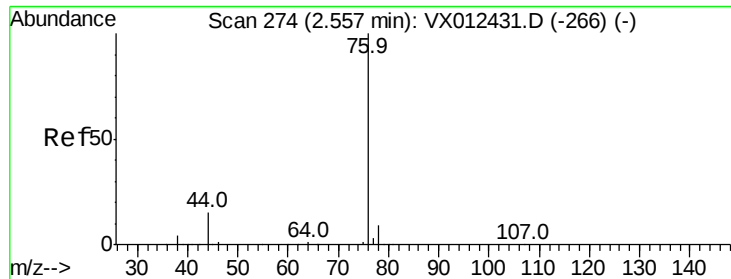
Tgt Ion: 43 Resp: 1255

Ion Ratio Lower Upper

43 100

58 22.7 23.3 34.9#





#17

Carbon Disulfide

Concen: 2.234 ug/l

RT: 2.56 min Scan# 274

Delta R.T. 0.00 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

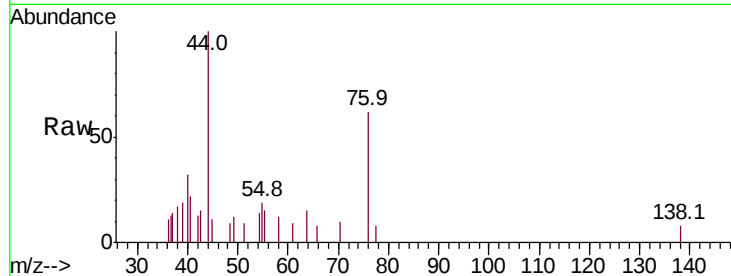
VX0918WBL02

Tot Ion: 76 Resp: 773

Ion Ratio Lower Upper

76 100

78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.56

400

300

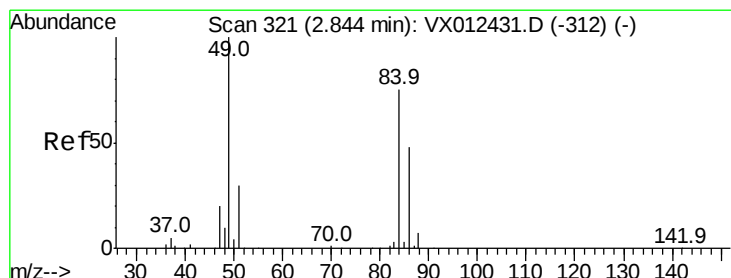
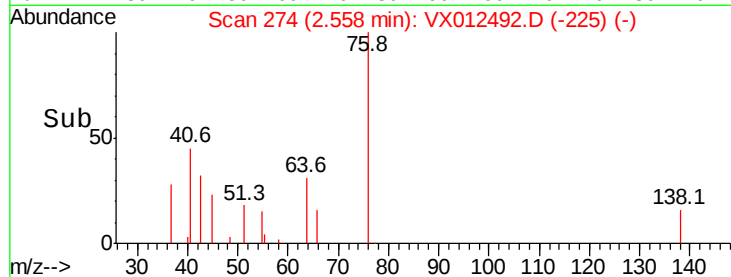
200

100

0

2.50 2.55 2.60 2.65

Time-->



#20

Methylene Chloride

Concen: 0.309 ug/l

RT: 2.85 min Scan# 322

Delta R.T. 0.01 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Tgt Ion: 84 Resp: 525

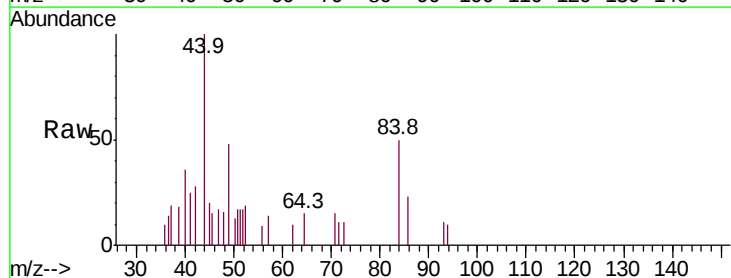
Ion Ratio Lower Upper

84 100

49 96.4 106.8 160.2#

51 67.3 32.3 48.5#

86 45.1 51.3 76.9#



Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0

400

300

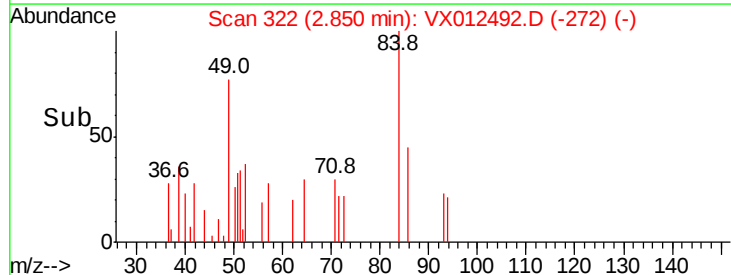
200

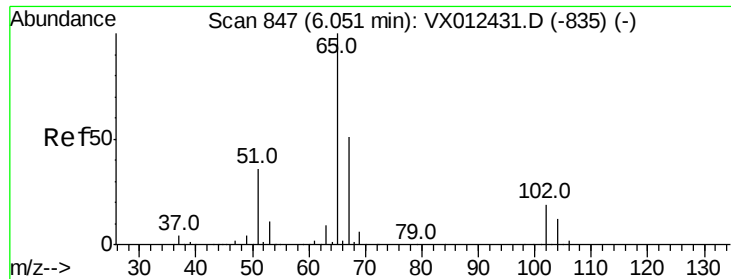
100

0

2.80 2.85 2.90

Time-->





#33

1,2-Dichloroethane-d4

Concen: 45.196 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

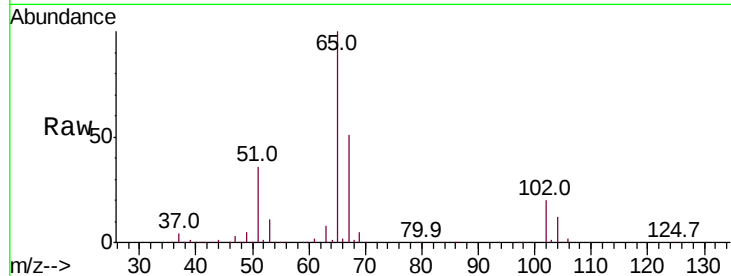
VX0918WBL02

Tot Ion: 65 Resp: 126996

Ion Ratio Lower Upper

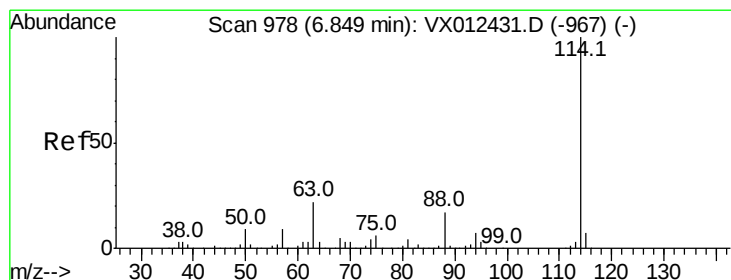
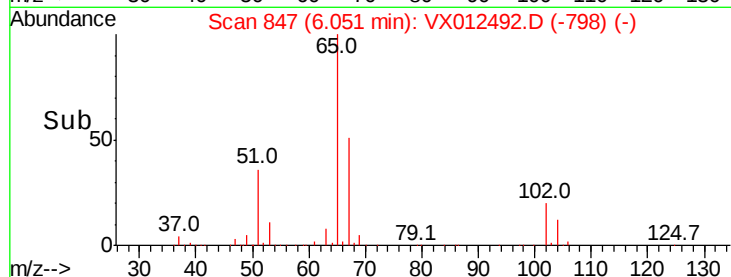
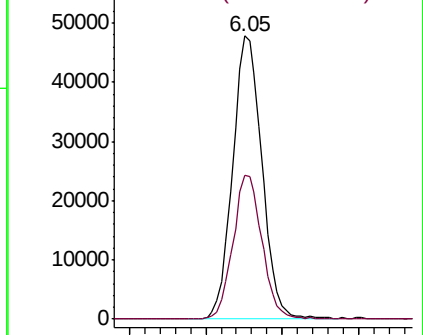
65 100

67 50.5 0.0 101.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

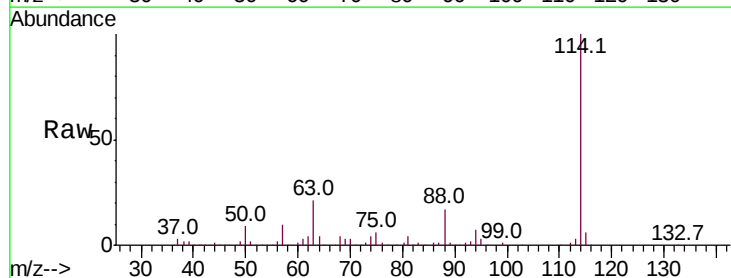
Tgt Ion:114 Resp: 306058

Ion Ratio Lower Upper

114 100

63 20.9 0.0 43.2

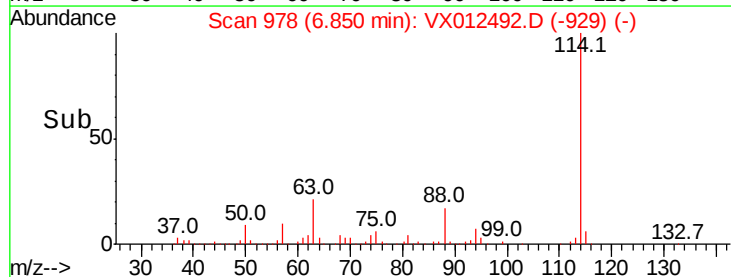
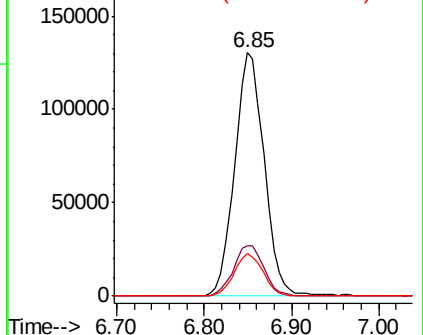
88 17.3 0.0 33.2

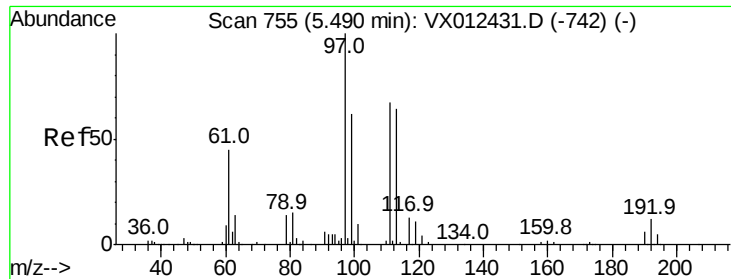


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.133 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL02

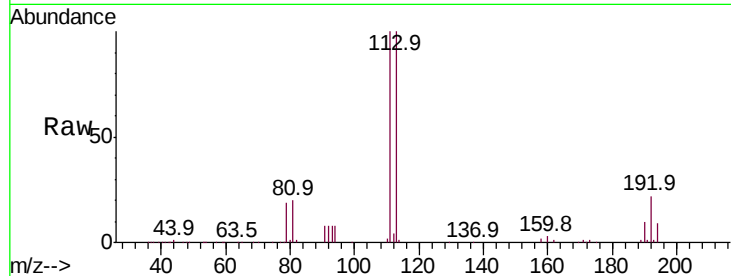
Tot Ion:113 Resp: 91016

Ion Ratio Lower Upper

113 100

111 103.3 83.4 125.2

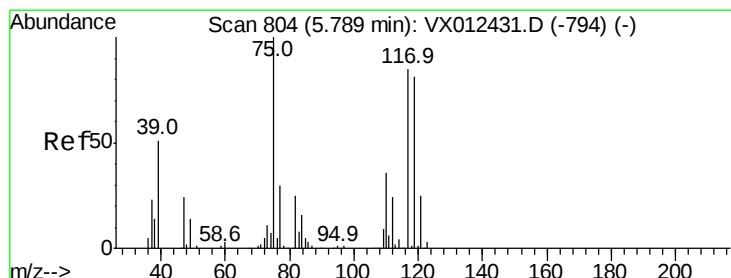
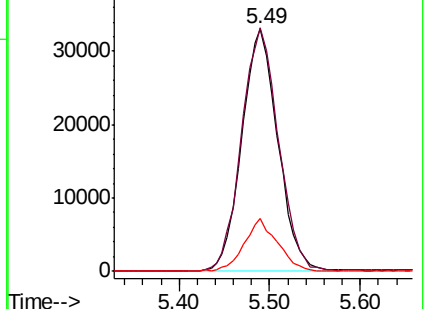
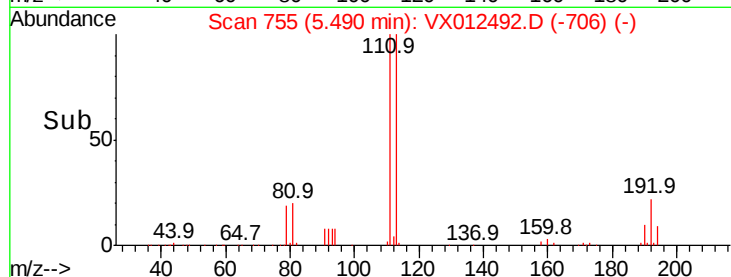
192 19.9 14.4 21.6



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: 9.180 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.13 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

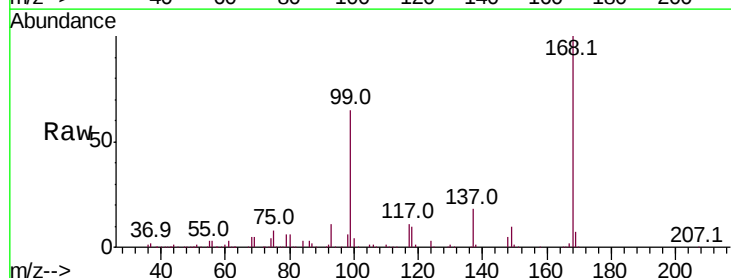
Tgt Ion: 75 Resp: 17076

Ion Ratio Lower Upper

75 100

110 10.3 16.7 50.0#

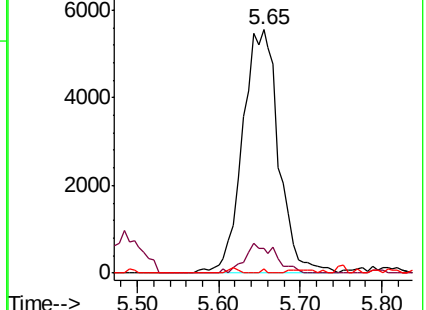
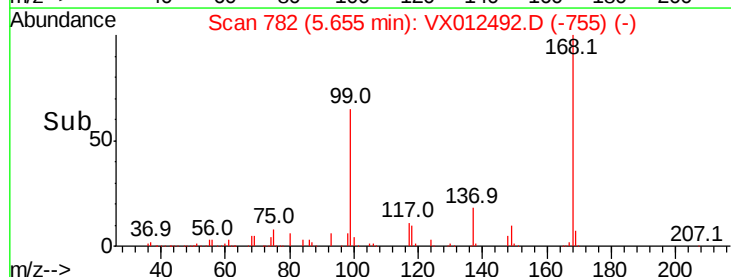
77 0.2 24.2 36.2#

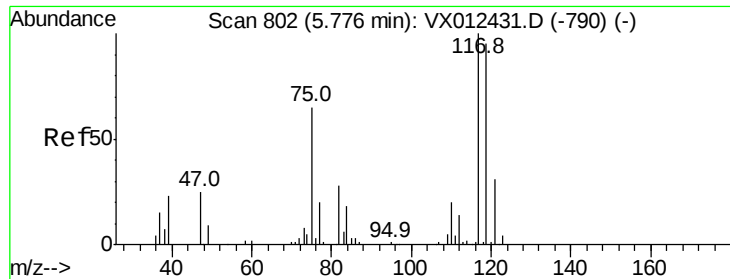


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 9.295 ug/l

RT: 5.66 min Scan# 783

Delta R.T. -0.12 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL02

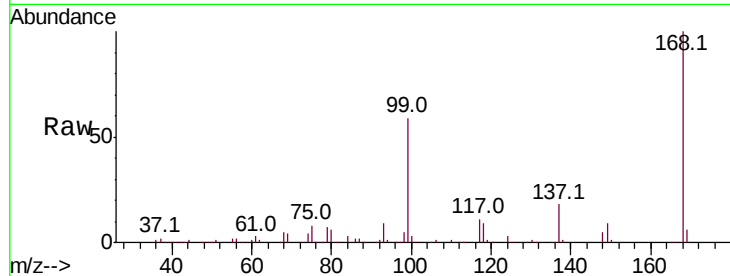
Tot Ion:117 Resp: 21503

Ion Ratio Lower Upper

117 100

119 4.4 75.7 113.5#

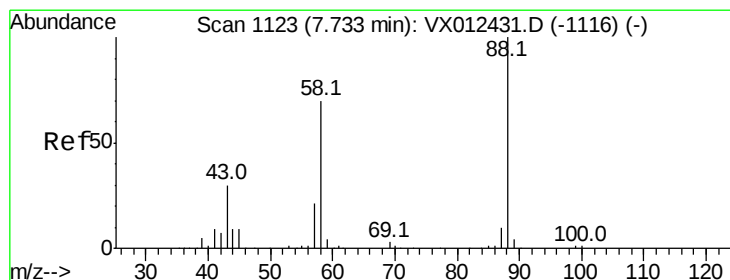
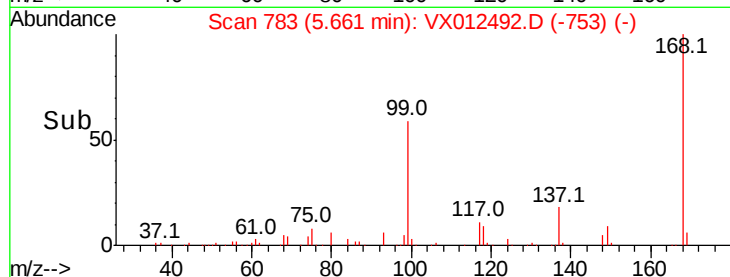
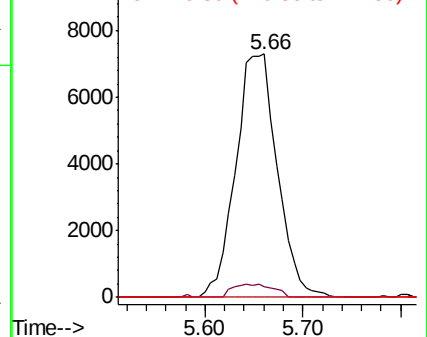
121 0.0 24.2 36.4#



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



#49

1,4-Dioxane

Concen: 0.782 ug/l

RT: 7.87 min Scan# 1146

Delta R.T. 0.14 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

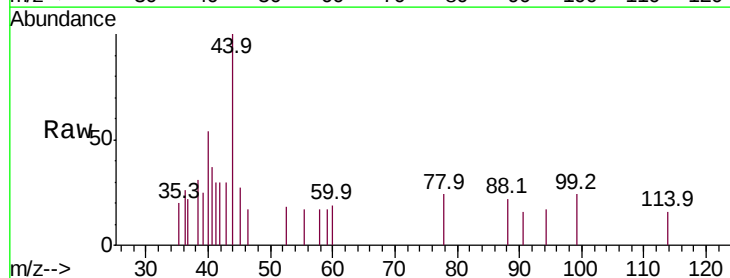
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 713.0 29.4 44.0#

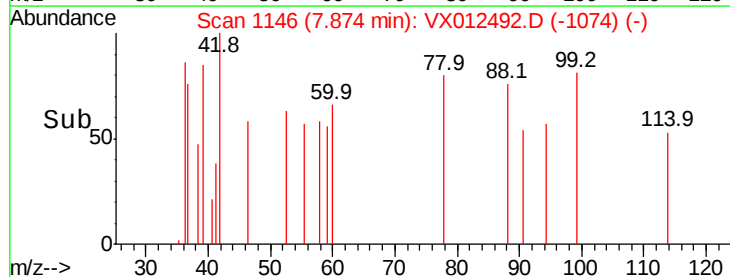
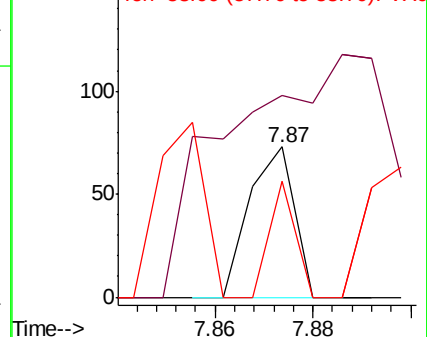
58 43.5 57.5 86.3#

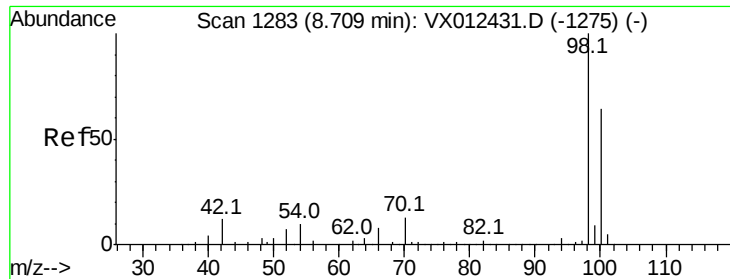


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.195 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampled :

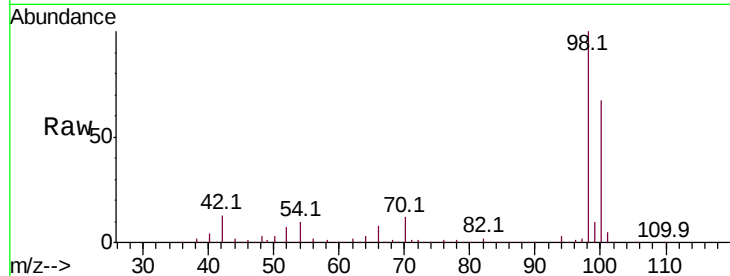
VX0918WBL02

Tot Ion: 98 Resp: 351027

Ion Ratio Lower Upper

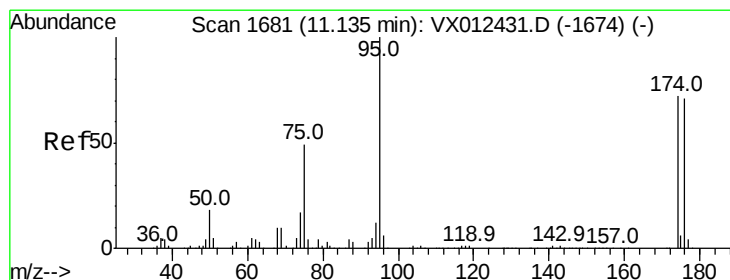
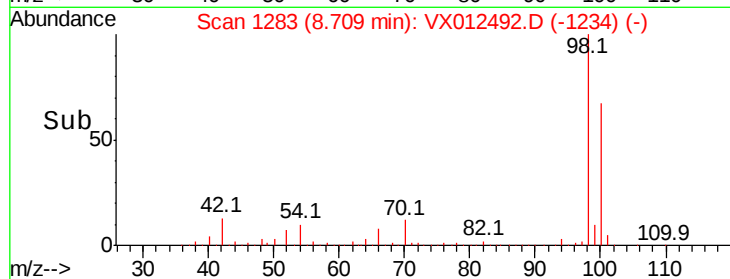
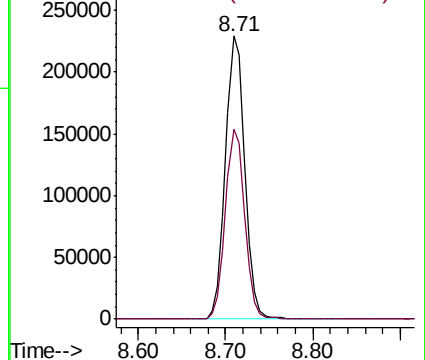
98 100

100 67.3 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 44.149 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

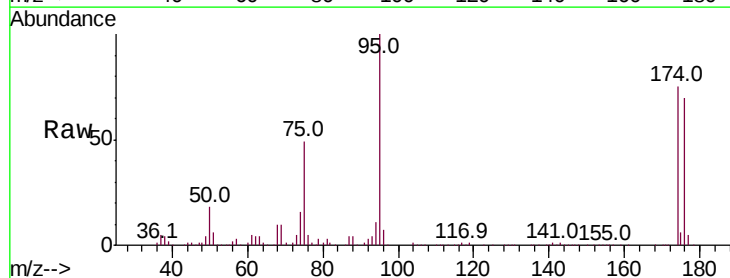
Tgt Ion: 95 Resp: 125689

Ion Ratio Lower Upper

95 100

174 71.4 0.0 140.0

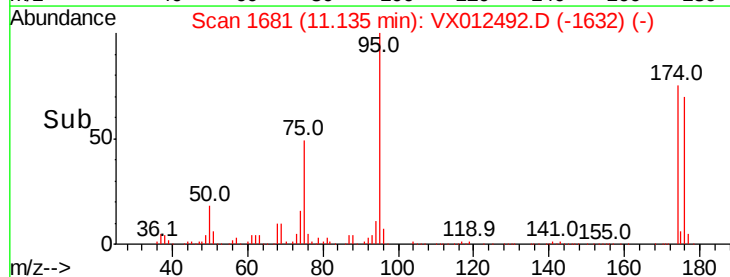
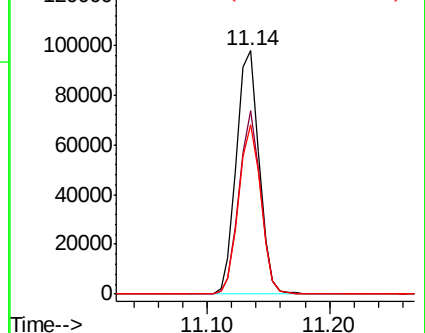
176 68.5 0.0 135.4

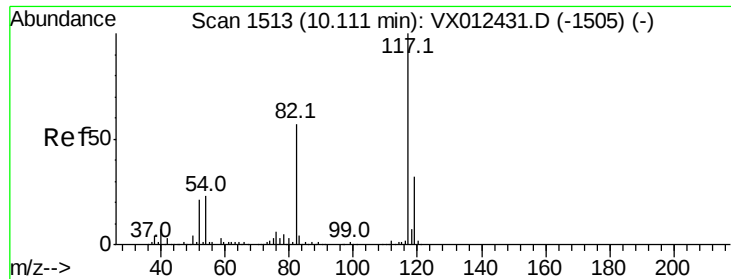


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

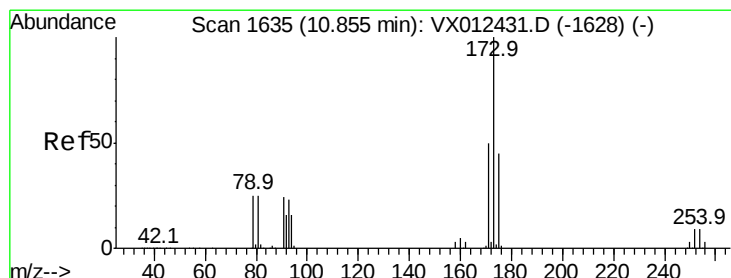
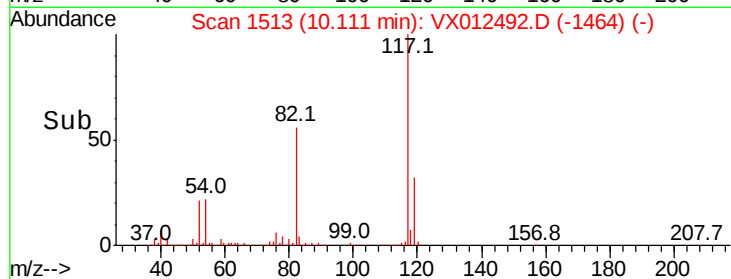
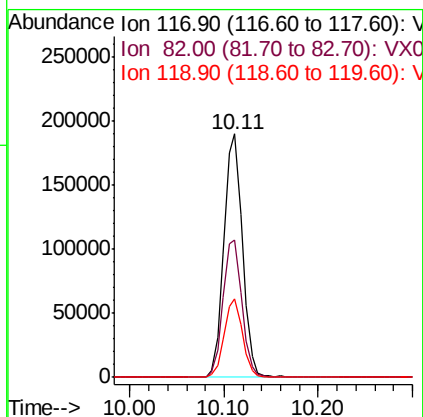
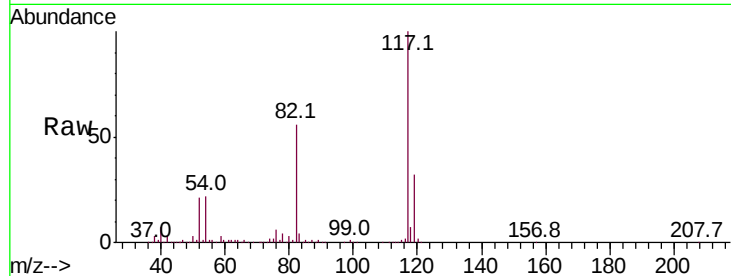




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012492.D
Acq: 18 Sep 2019 23:11

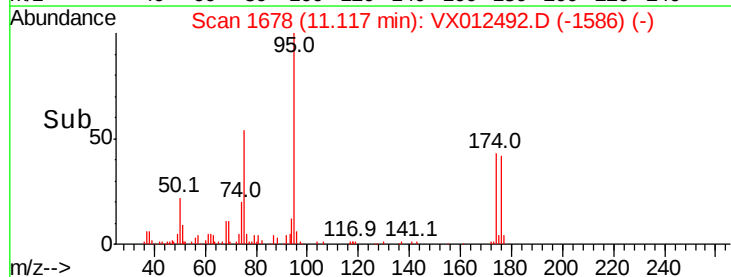
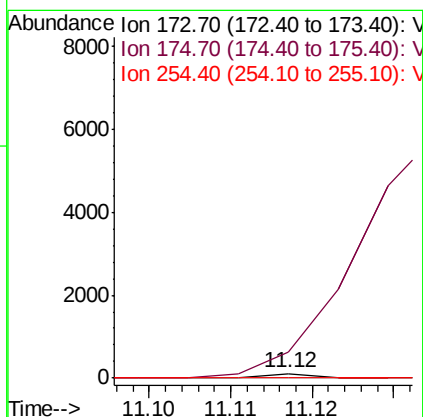
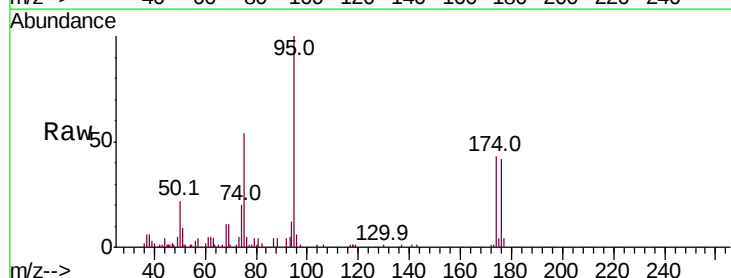
Instrument :
MSVOA_X
ClientSampleId :
VX0918WBL02

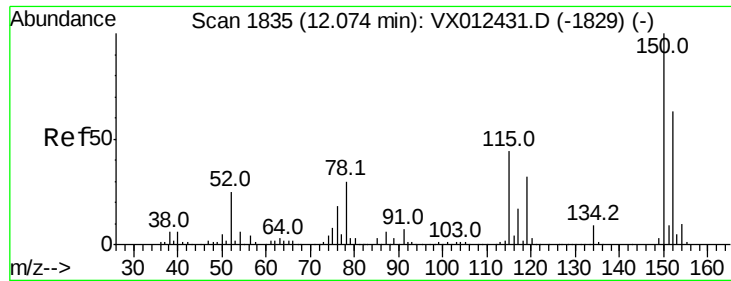
Tot Ion:117 Resp: 259632
Ion Ratio Lower Upper
117 100
82 56.2 45.9 68.9
119 32.4 25.3 37.9



#71
Bromoform
Concen: 2.896 ug/l
RT: 11.12 min Scan# 1678
Delta R.T. 0.26 min
Lab File: VX012492.D
Acq: 18 Sep 2019 23:11

Tgt Ion:173 Resp: 43
Ion Ratio Lower Upper
173 100
175 0.0 23.7 71.1#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL02

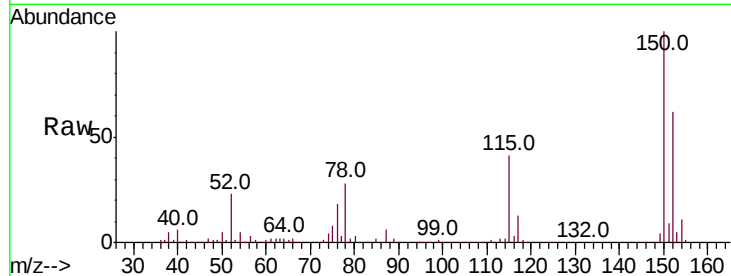
Tot Ion:152 Resp: 101984

Ion Ratio Lower Upper

152 100

115 63.4 44.1 132.3

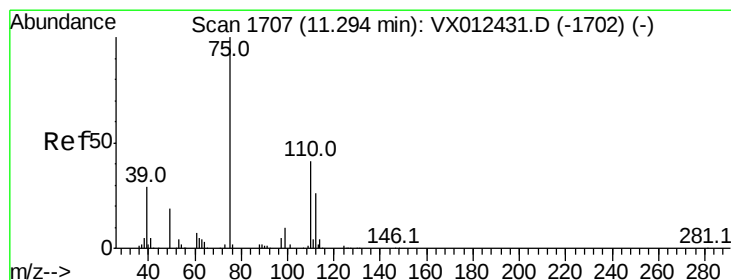
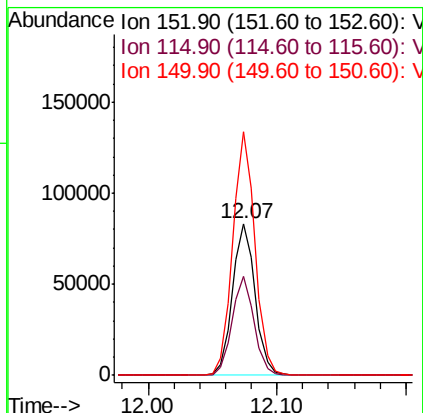
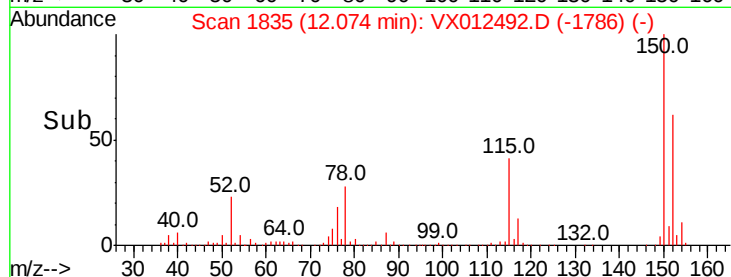
150 158.4 0.0 343.8



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: 27.412 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012492.D

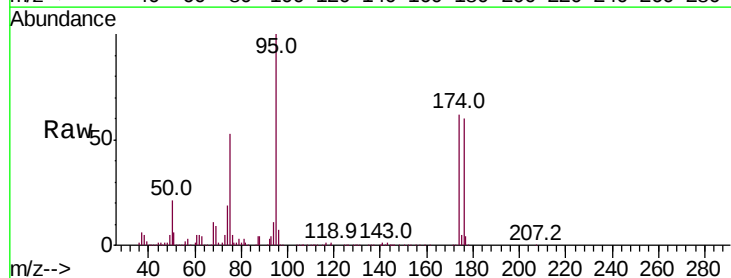
Acq: 18 Sep 2019 23:11

Tgt Ion: 75 Resp: 64217

Ion Ratio Lower Upper

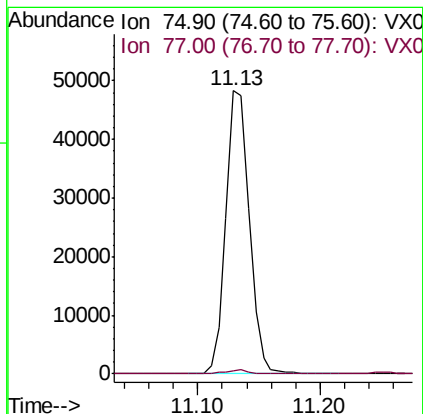
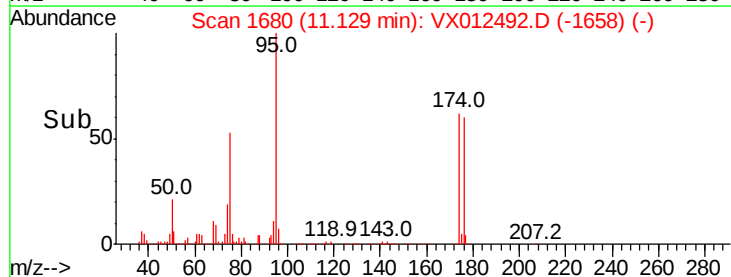
75 100

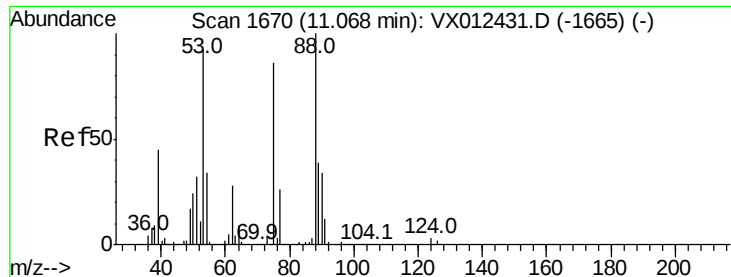
77 1.4 19.7 59.0#



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: 73.693 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012492.D

Acq: 18 Sep 2019 23:11

Instrument :

MSVOA_X

ClientSampleId :

VX0918WBL02

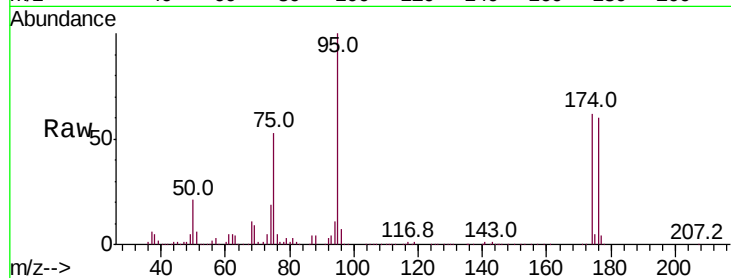
Tot Ion: 75 Resp: 64217

Ion Ratio Lower Upper

75 100

53 0.2 83.6 125.4#

89 0.0 36.3 54.5#



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

