

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021220\
 Data File : VX014920.D
 Acq On : 12 Feb 2020 13:08
 Operator : JC/SP
 Sample : L1503-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

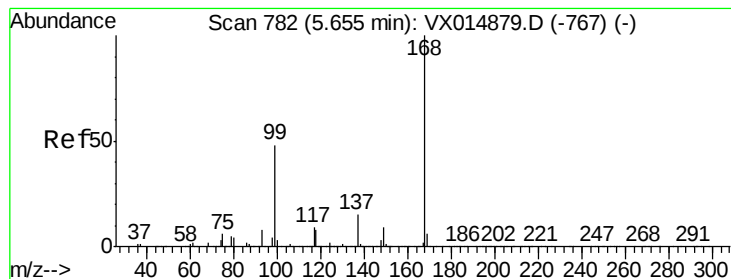
Quant Time: Feb 13 03:34:09 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X021020W.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 10 12:09:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	442526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	688842	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	656675	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	332890	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	252390	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
35) Dibromofluoromethane	5.49	113	212026	50.07	ug/l	0.00
Spiked Amount			Recovery	=	100.14%	
50) Toluene-d8	8.71	98	825501	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
62) 4-Bromofluorobenzene	11.13	95	304963	52.37	ug/l	0.00
Spiked Amount			Recovery	=	104.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	1296	0.391	ug/l #	71
10) Methyl Iodide	2.51	142	1590	4.682	ug/l #	65
11) Tert butyl alcohol	3.04	59	283	0.321	ug/l #	1
13) Acrolein	2.29	56	677	1.007	ug/l #	15
15) Acrylonitrile	3.15	53	504	0.225	ug/l #	1
16) Acetone	2.43	43	2302	Below Cal		100
17) Carbon Disulfide	2.57	76	2543	0.224	ug/l #	63
29) Tetrahydrofuran	5.13	42	416	0.215	ug/l #	28
36) 1,1-Dichloropropene	5.65	75	29909	4.854	ug/l #	41
38) Carbon Tetrachloride	5.65	117	38407	6.396	ug/l #	15
49) 1,4-Dioxane	7.72	88	152	1.558	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	151514	25.170	ug/l #	41
81) trans-1,4-Dichloro-2-buten	11.13	75	151514	64.426	ug/l #	12
93) 1,2,4-Trichlorobenzene	13.63	180	1772	0.234	ug/l #	86
94) Hexachlorobutadiene	13.78	225	775	0.212	ug/l	78
96) 1,2,3-Trichlorobenzene	14.01	180	1573	0.215	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.00 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

Instrument :

MSVOA_X

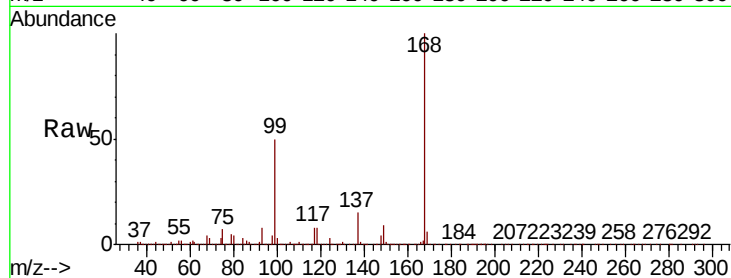
ClientSampleId :

Tot Ion:168 Resp: 442526

Ion Ratio Lower Upper

168 100

99 49.5 38.7 58.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

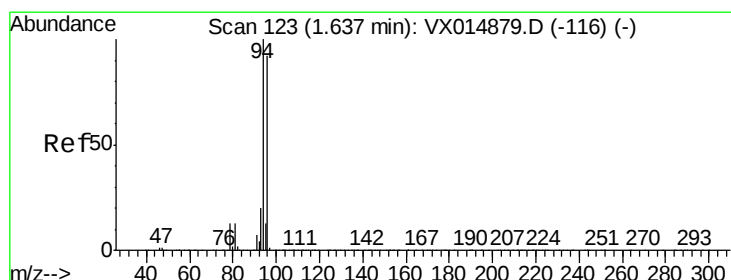
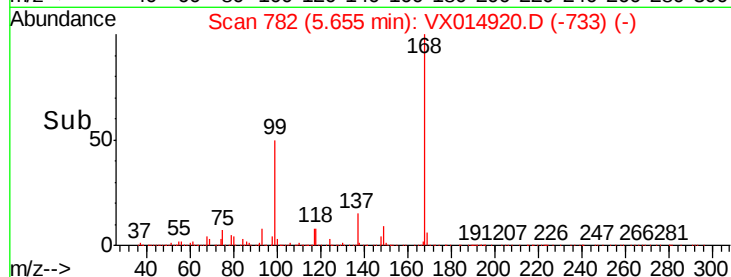
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.391 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.02 min

Lab File: VX014920.D

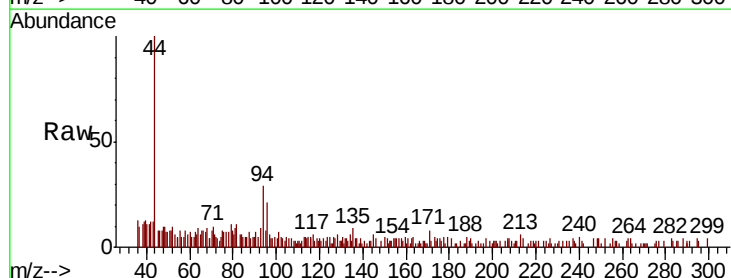
Acq: 12 Feb 2020 13:08

Tgt Ion: 94 Resp: 1296

Ion Ratio Lower Upper

94 100

96 64.4 73.7 110.5#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.66

1000

800

600

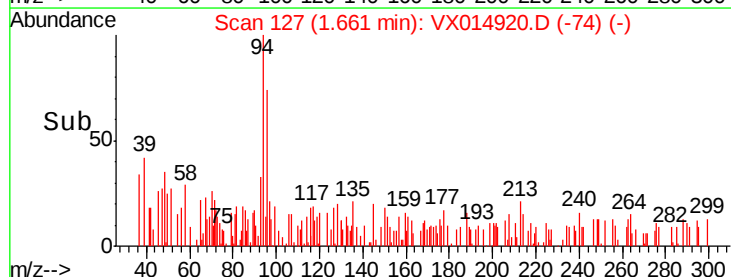
400

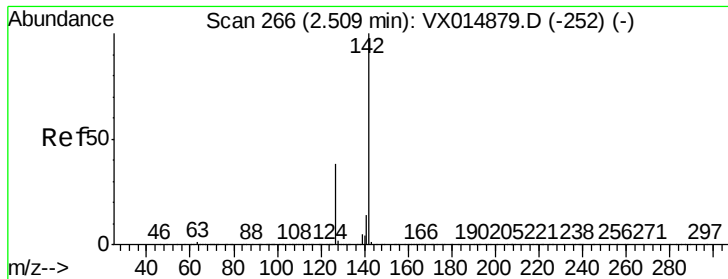
200

0

Time-->

1.65 1.70





#10

Methvl Iodide

Concen: 4.682 ug/l

RT: 2.51 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

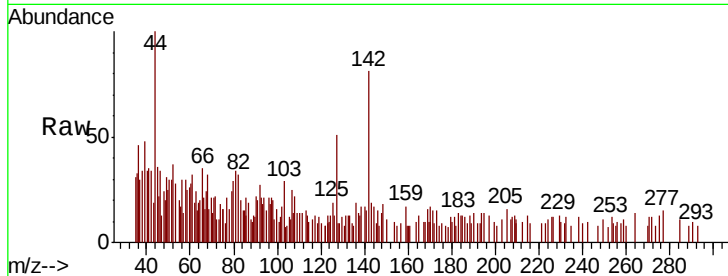
Tot Ion:142 Resp: 1590

Ion Ratio Lower Upper

142 100

127 65.6 31.1 46.7#

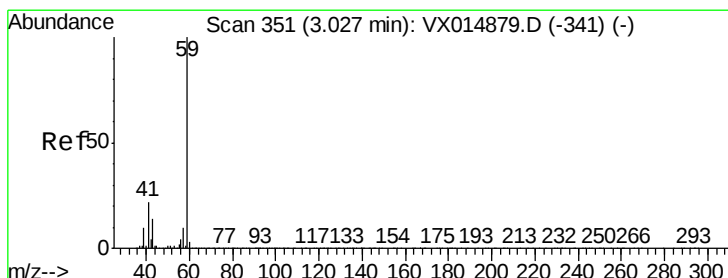
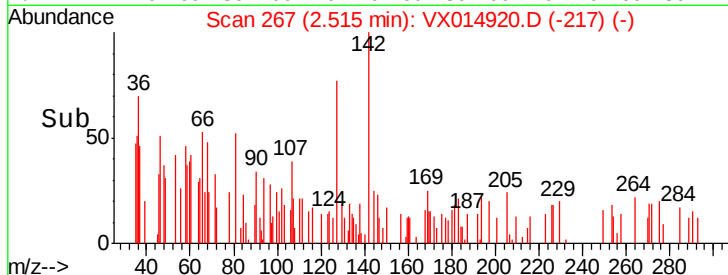
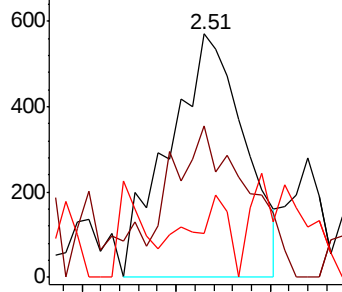
141 17.8 11.3 16.9#



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: 0.321 ug/l

RT: 3.04 min Scan# 353

Delta R.T. 0.01 min

Lab File: VX014920.D

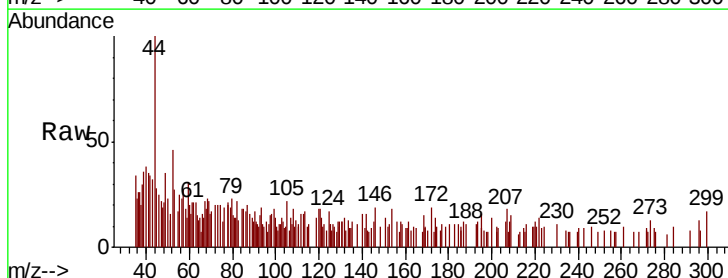
Acq: 12 Feb 2020 13:08

Tgt Ion: 59 Resp: 283

Ion Ratio Lower Upper

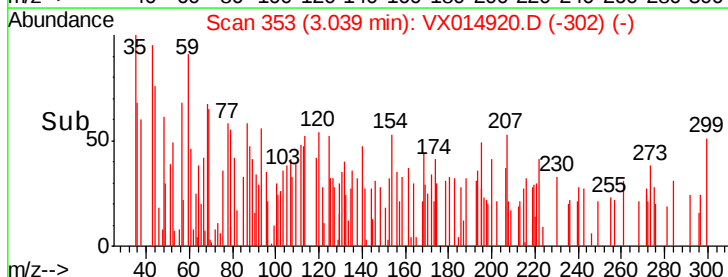
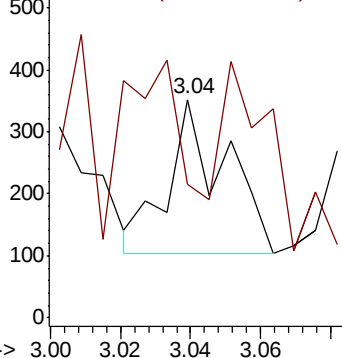
59 100

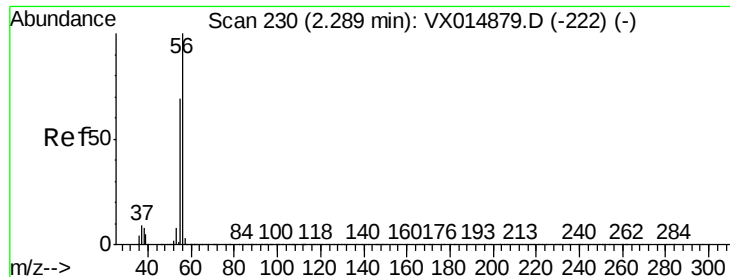
57 201.1 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 1.007 ug/l

RT: 2.29 min Scan# 230

Delta R.T. -0.00 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

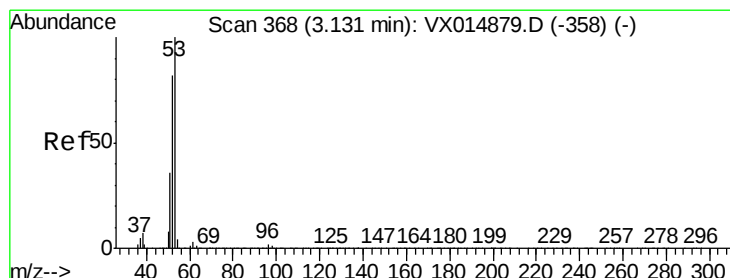
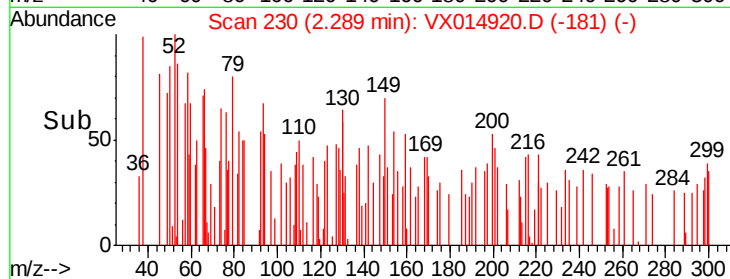
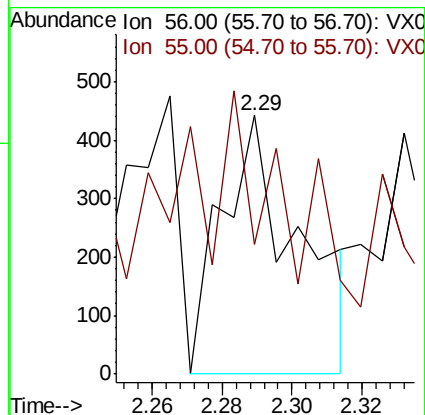
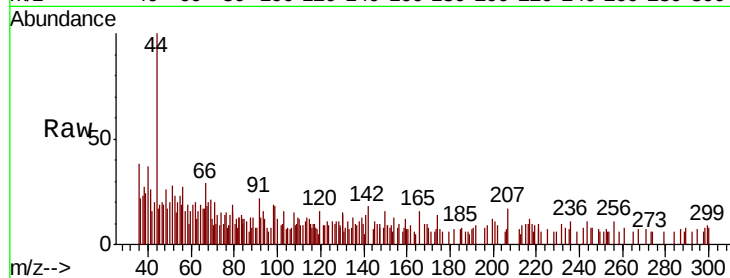
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 56 Resp: 677

Ion Ratio Lower Upper

56 100

55 0.0 55.0 82.4#



#15

Acrylonitrile

Concen: 0.225 ug/l

RT: 3.15 min Scan# 371

Delta R.T. 0.02 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

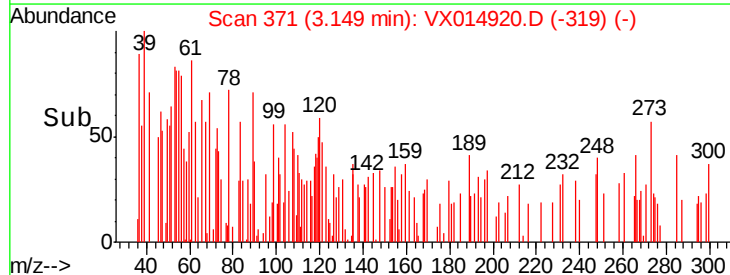
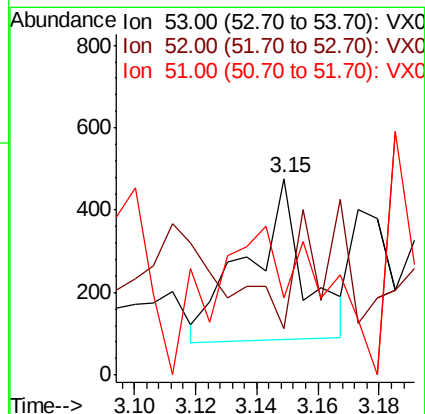
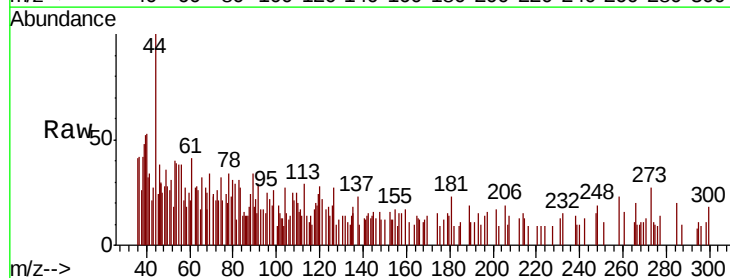
Tgt Ion: 53 Resp: 504

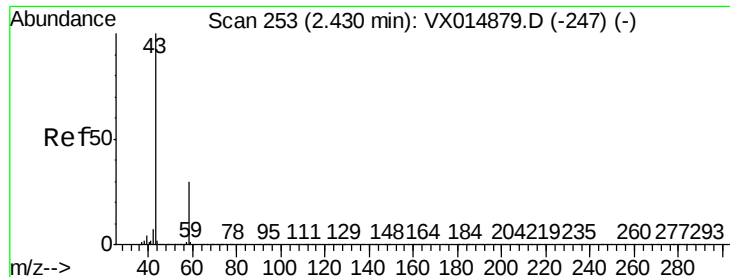
Ion Ratio Lower Upper

53 100

52 0.0 65.8 98.6#

51 175.6 29.1 43.7#





#16

Acetone

Concen: Below Cal

RT: 2.43 min Scan# 253

Delta R.T. 0.00 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

Instrument :

MSVOA_X

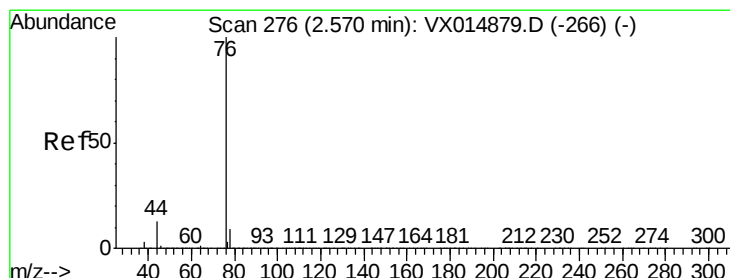
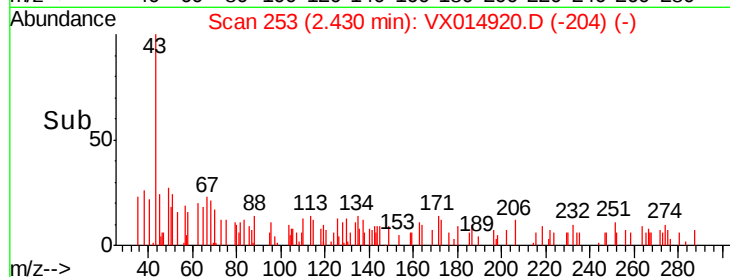
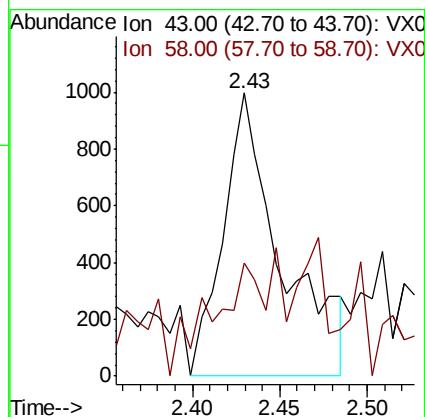
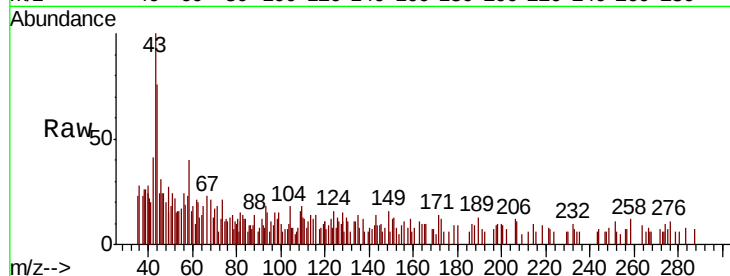
ClientSampled :

Tot Ion: 43 Resp: 2302

Ion Ratio Lower Upper

43 100

58 30.0 24.1 36.1



#17

Carbon Disulfide

Concen: 0.224 ug/l

RT: 2.57 min Scan# 276

Delta R.T. -0.00 min

Lab File: VX014920.D

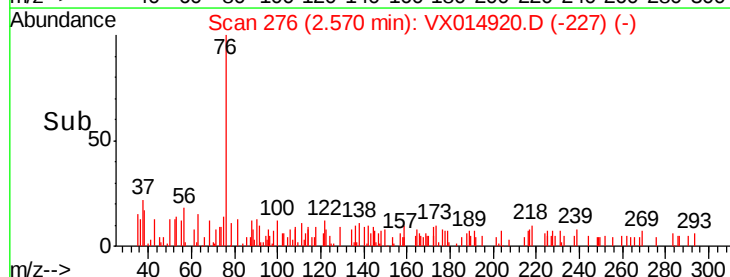
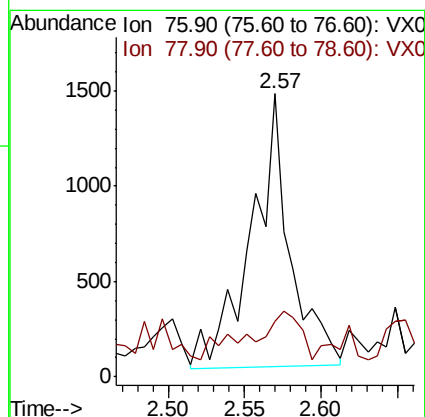
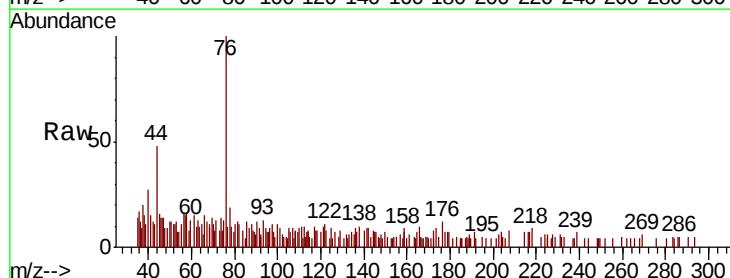
Acq: 12 Feb 2020 13:08

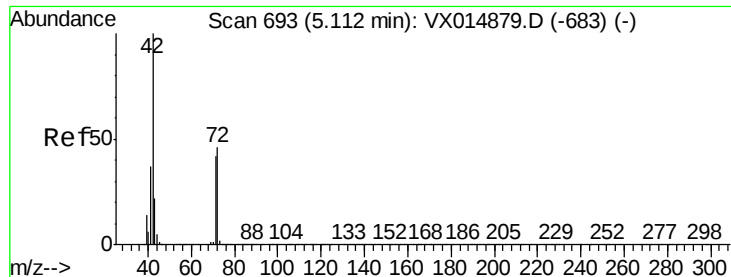
Tgt Ion: 76 Resp: 2543

Ion Ratio Lower Upper

76 100

78 22.8 7.4 11.0#





#29

Tetrahydrofuran

Concen: 0.215 ug/l

RT: 5.13 min Scan# 696

Delta R.T. 0.02 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampled :

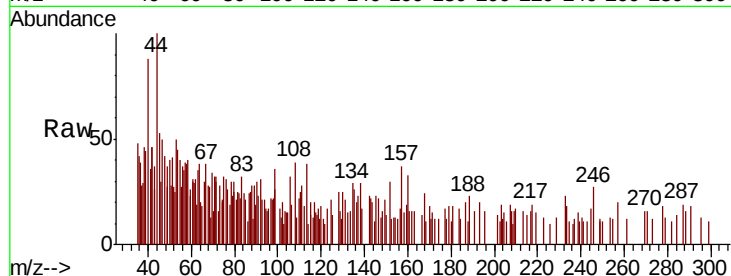
Tot Ion: 42 Resp: 416

Ion Ratio Lower Upper

42 100

72 75.2 36.9 55.3#

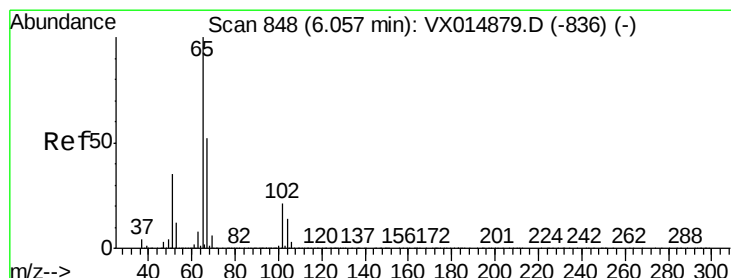
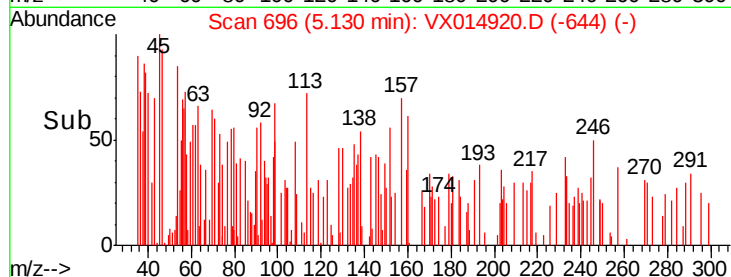
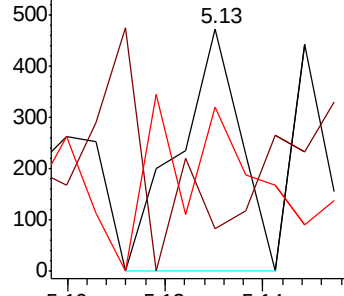
71 107.7 34.1 51.1#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 50.536 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.01 min

Lab File: VX014920.D

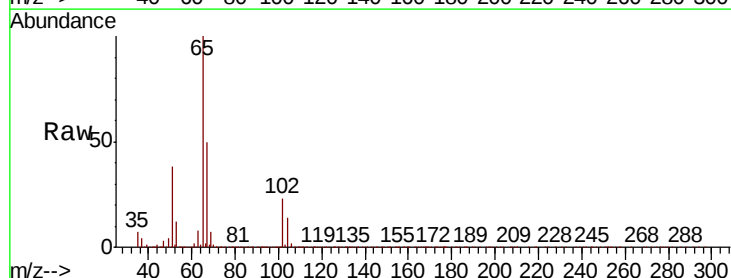
Acq: 12 Feb 2020 13:08

Tgt Ion: 65 Resp: 252390

Ion Ratio Lower Upper

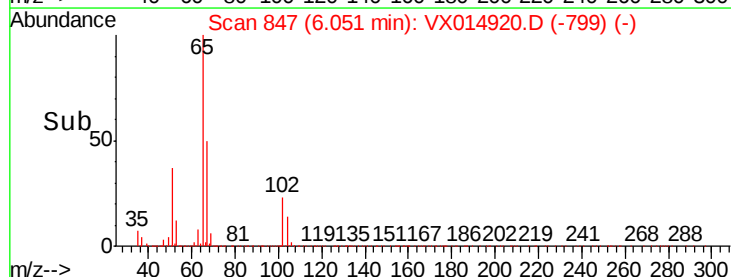
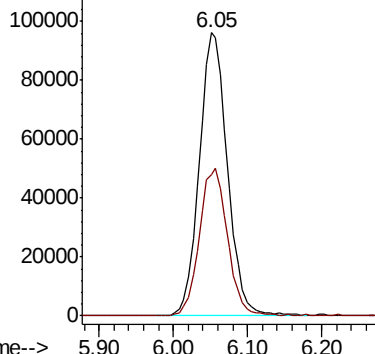
65 100

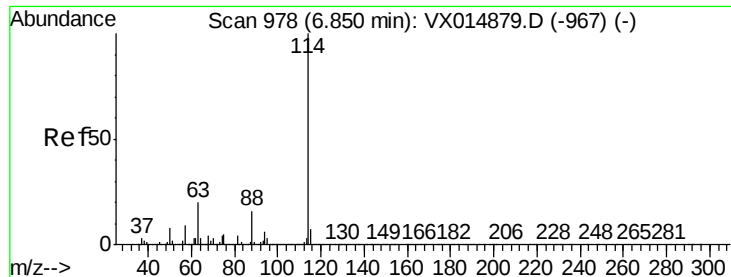
67 52.1 0.0 103.0



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: VX014920.D

Acq: 12 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

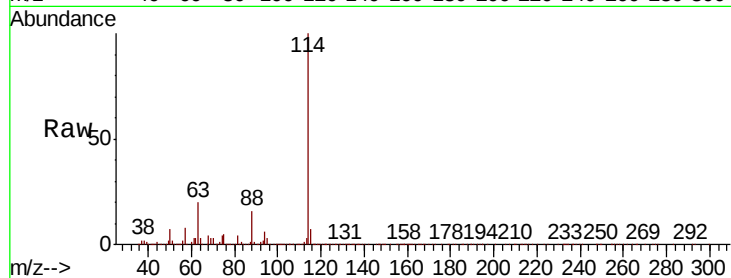
Tot Ion:114 Resp: 688842

Ion Ratio Lower Upper

114 100

63 20.4 0.0 39.2

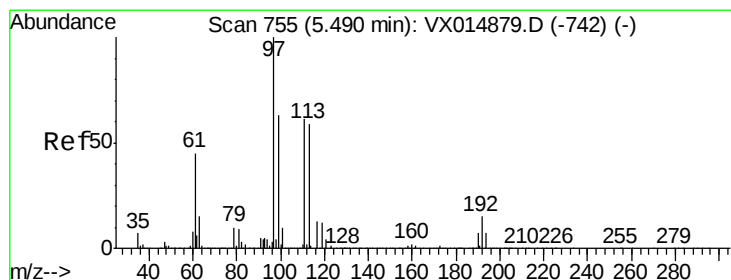
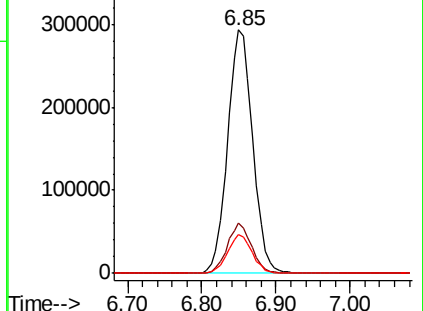
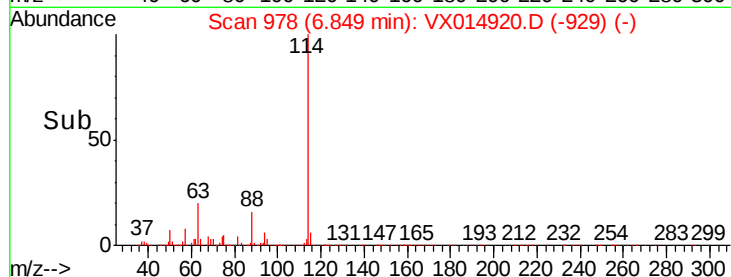
88 16.0 0.0 32.0



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: 50.067 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

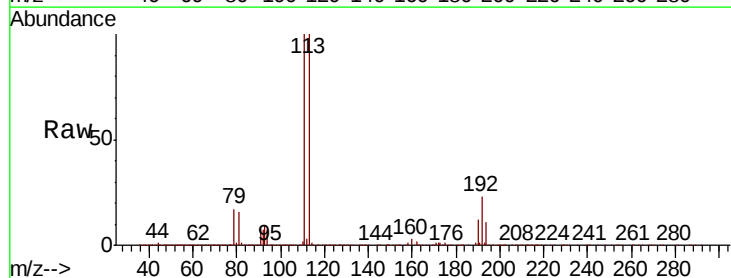
Tgt Ion:113 Resp: 212026

Ion Ratio Lower Upper

113 100

111 101.3 82.4 123.6

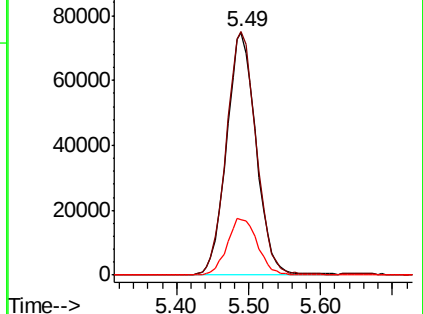
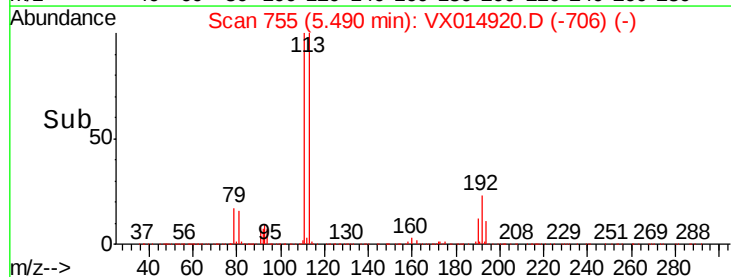
192 24.2 19.1 28.7

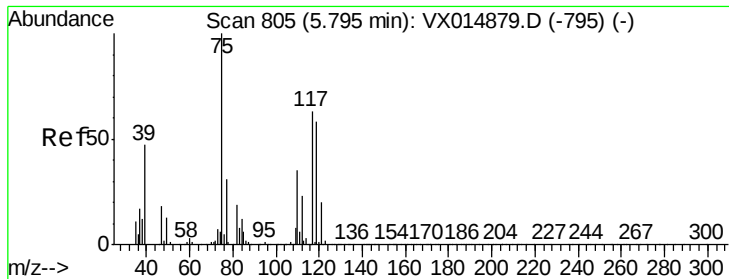


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

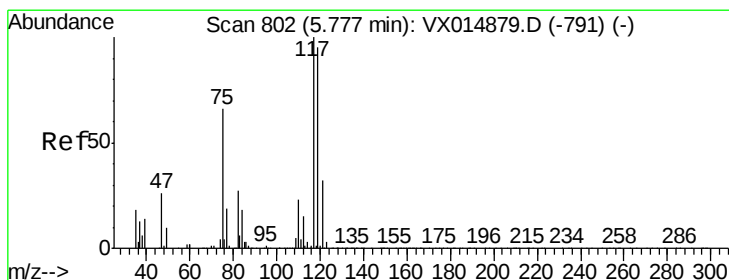
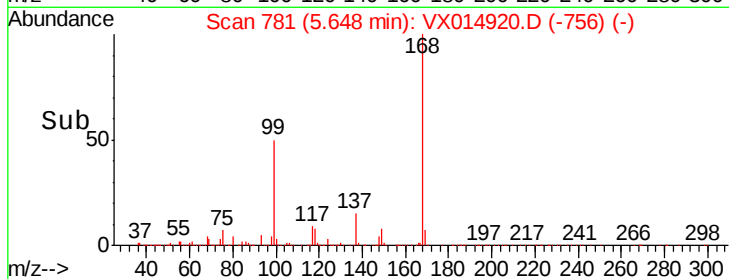
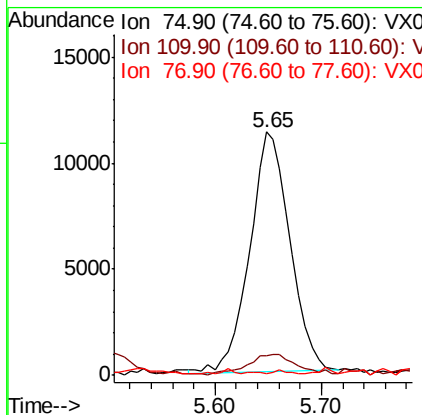
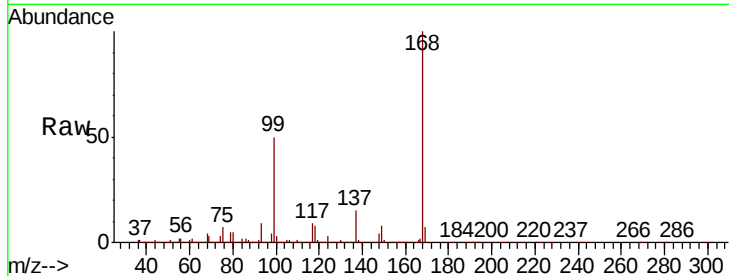




#36
 1,1-Dichloropropene
 Concen: 4.854 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.15 min
 Lab File: VX014920.D
 Acq: 12 Feb 2020 13:08

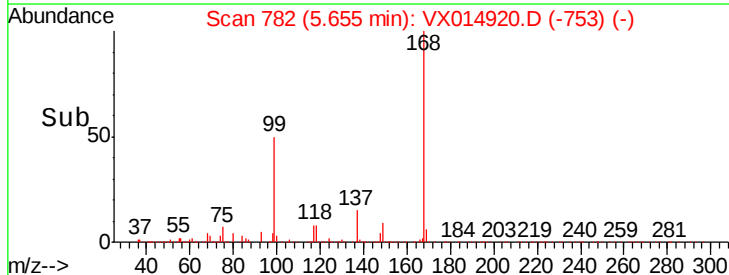
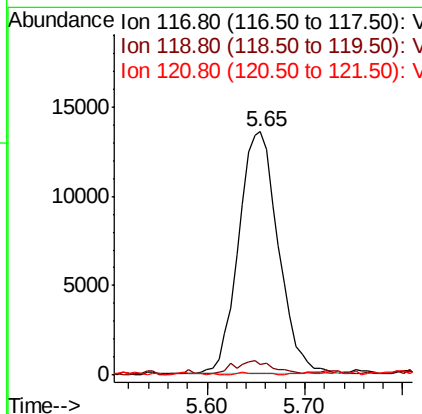
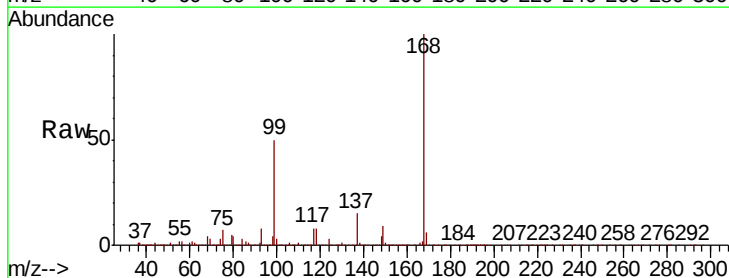
Instrument :
 MSVOA_X
 ClientSampleId :

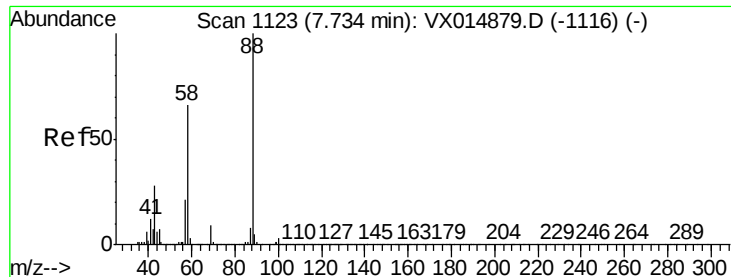
Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	18.3	54.8#
77	0.2	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.396 ug/l
 RT: 5.65 min Scan# 782
 Delta R.T. -0.12 min
 Lab File: VX014920.D
 Acq: 12 Feb 2020 13:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	2.8	76.0	114.0#
121	0.0	25.4	38.2#





#49

1,4-Dioxane

Concen: 1.558 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

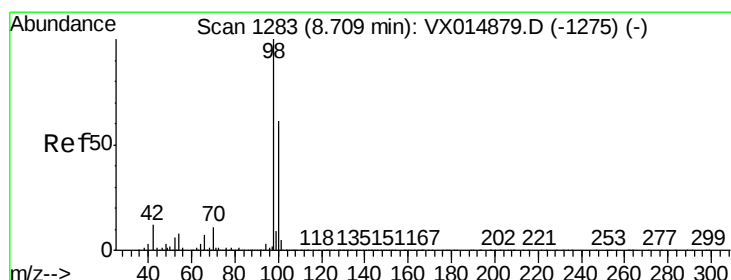
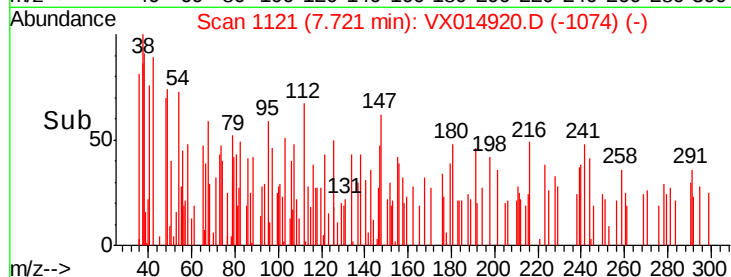
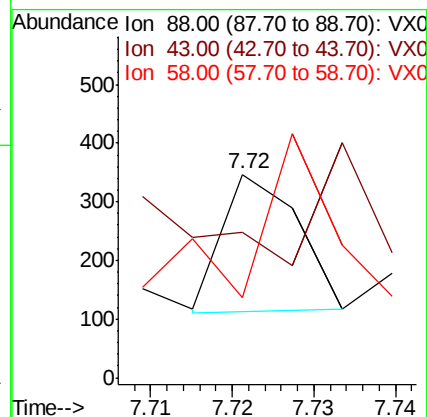
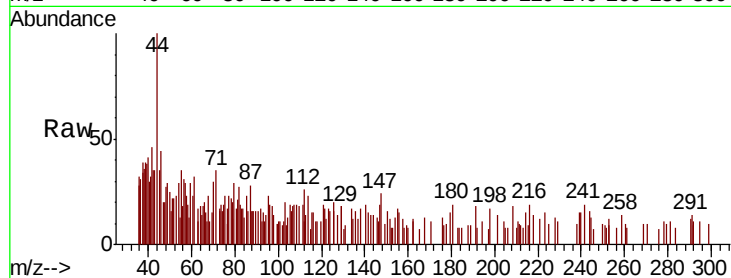
Tot Ion: 88 Resp: 152

Ion Ratio Lower Upper

88 100

43 73.7 27.0 40.4#

58 277.6 53.2 79.8#



#50

Toluene-d8

Concen: 51.068 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014920.D

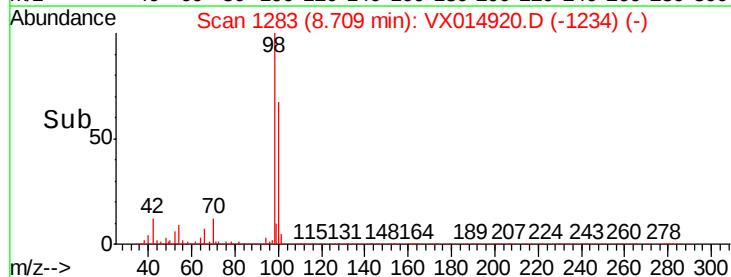
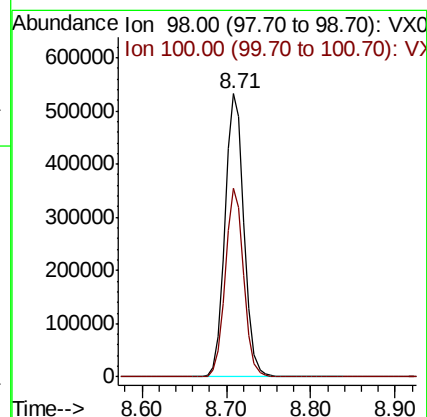
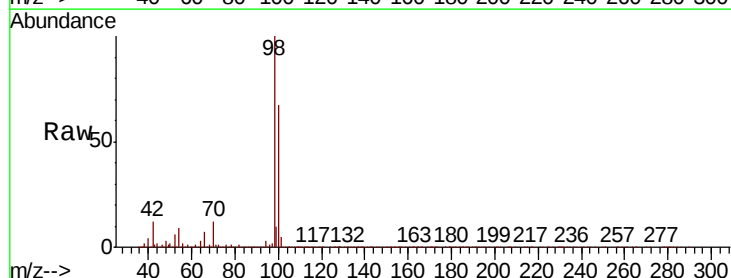
Acq: 12 Feb 2020 13:08

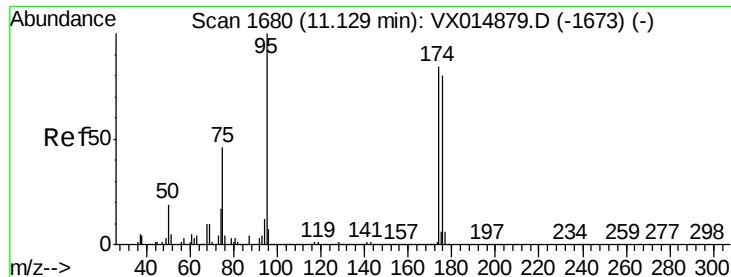
Tgt Ion: 98 Resp: 825501

Ion Ratio Lower Upper

98 100

100 65.0 52.4 78.6





#62

4-Bromofluorobenzene

Concen: 52.372 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

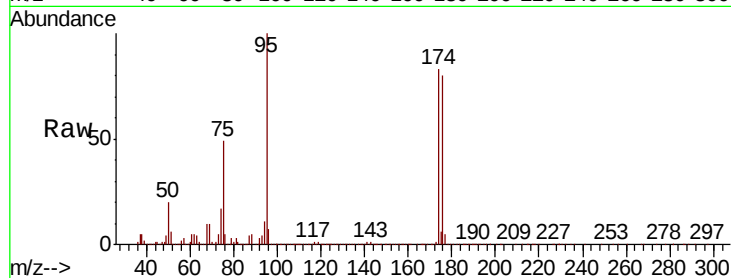
Tot Ion: 95 Resp: 304963

Ion Ratio Lower Upper

95 100

174 91.9 0.0 183.0

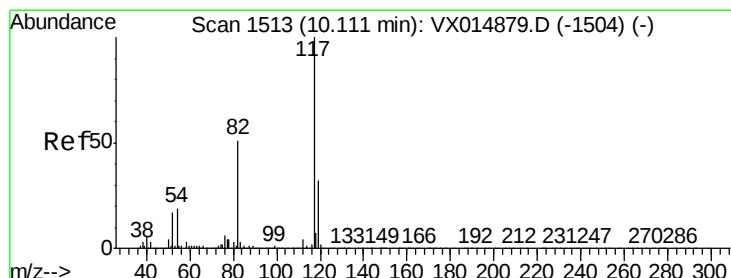
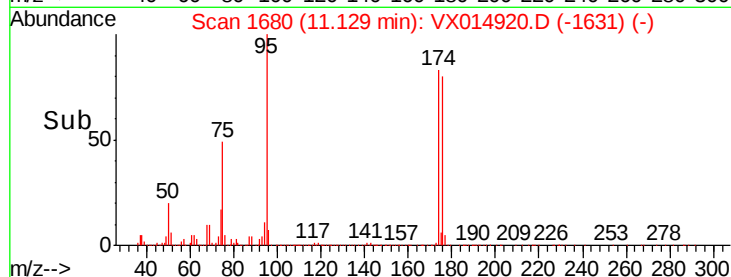
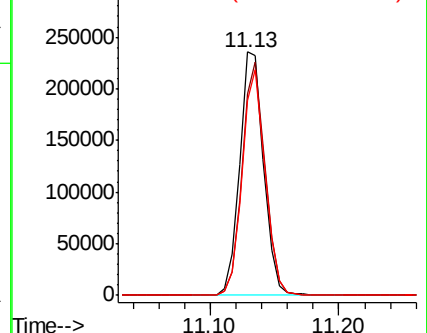
176 89.2 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX014879.D (-1673) (-)

Ion 173.80 (173.50 to 174.50): VX014879.D (-1673) (-)

Ion 175.80 (175.50 to 176.50): VX014879.D (-1673) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1512

Delta R.T. -0.01 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

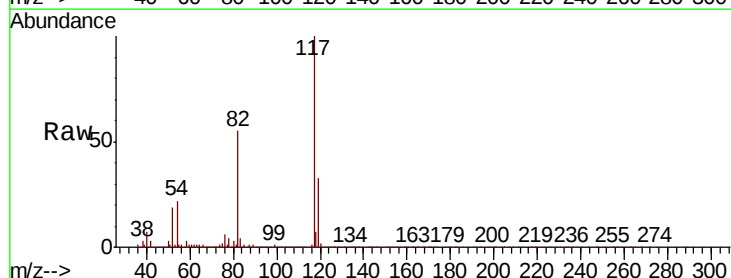
Tgt Ion: 117 Resp: 656675

Ion Ratio Lower Upper

117 100

82 54.6 40.5 60.7

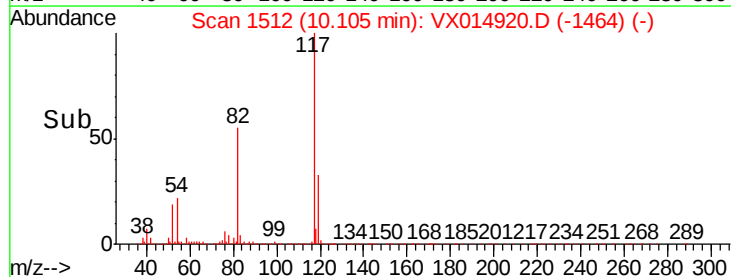
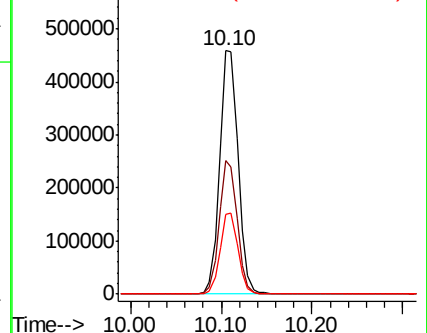
119 32.6 25.8 38.6

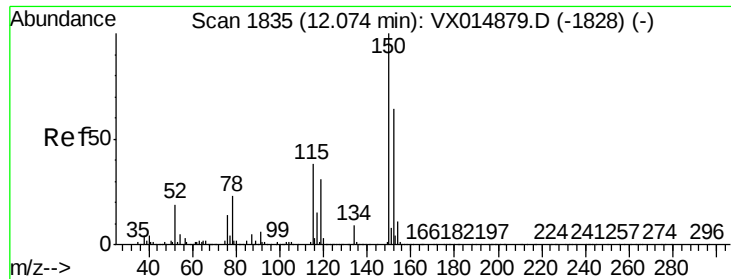


Abundance Ion 116.90 (116.60 to 117.60): VX014879.D (-1504) (-)

Ion 82.00 (81.70 to 82.70): VX014879.D (-1504) (-)

Ion 118.90 (118.60 to 119.60): VX014879.D (-1504) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

Instrument :

MSVOA_X

ClientSampleId :

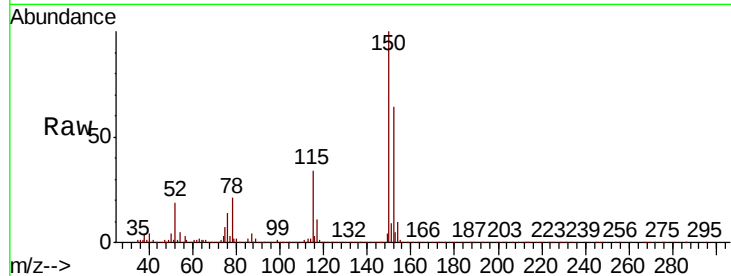
Tot Ion:152 Resp: 332890

Ion Ratio Lower Upper

152 100

115 54.3 38.6 116.0

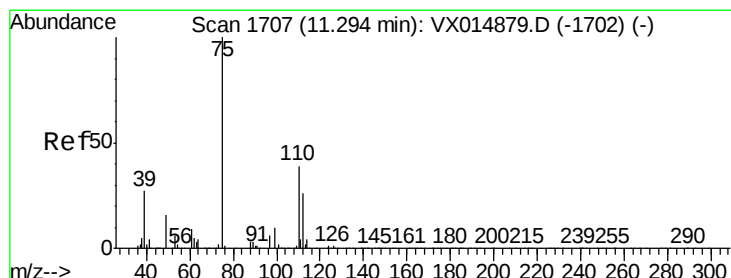
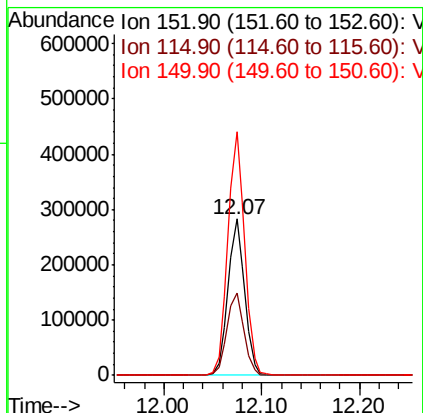
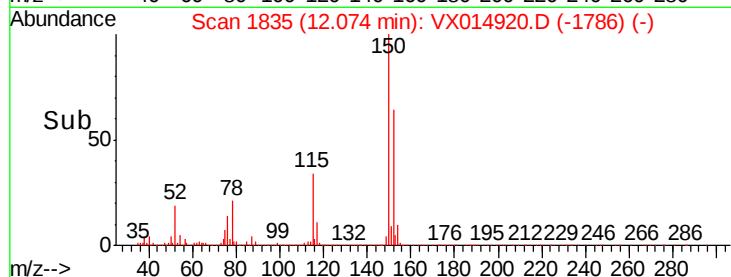
150 158.0 0.0 349.0



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: 25.170 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014920.D

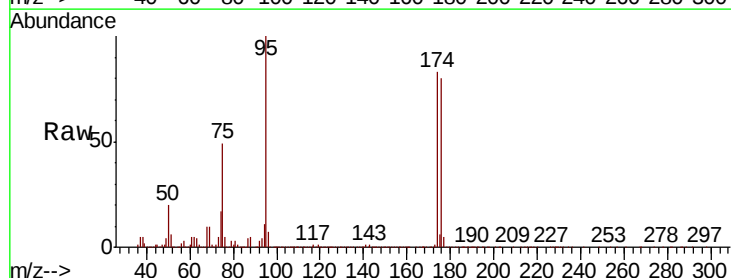
Acq: 12 Feb 2020 13:08

Tgt Ion: 75 Resp: 151514

Ion Ratio Lower Upper

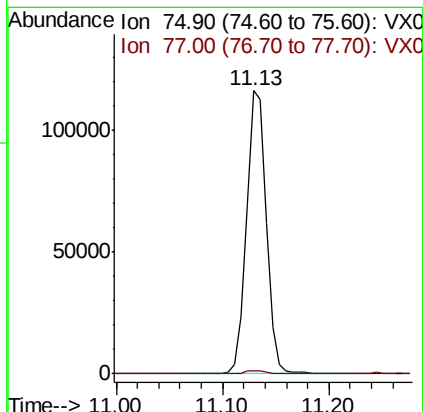
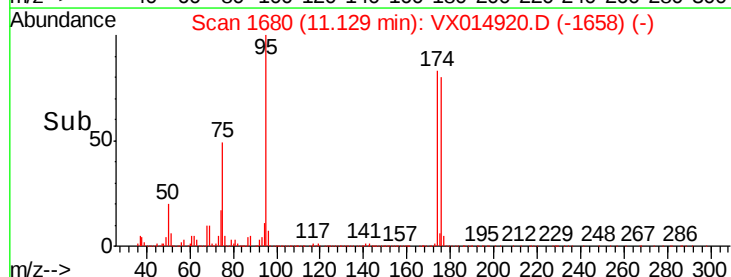
75 100

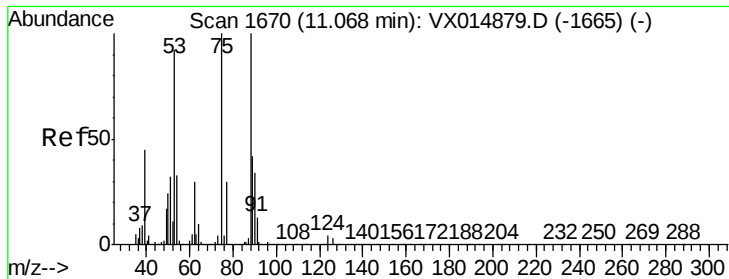
77 1.5 18.4 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

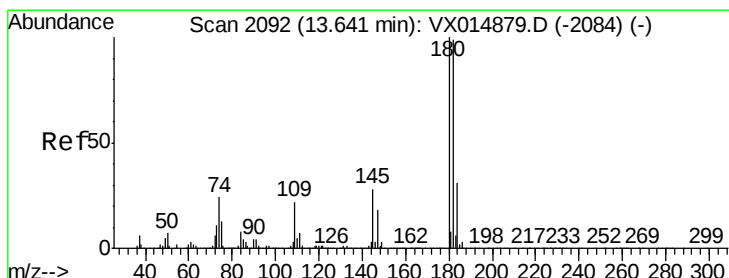
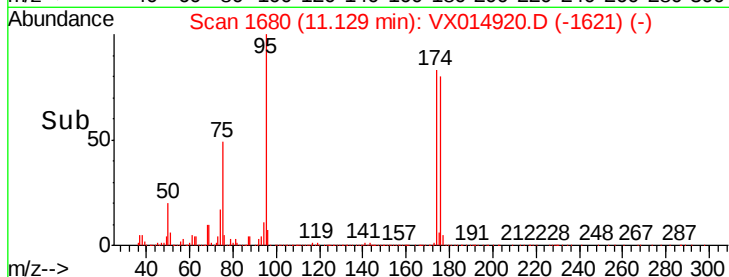
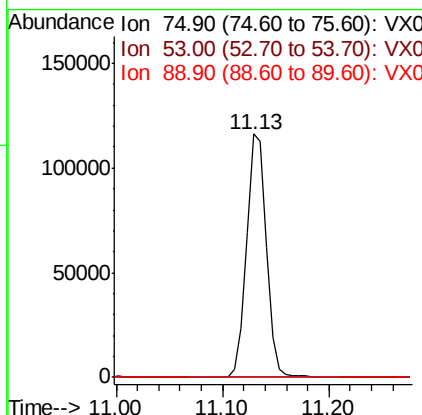
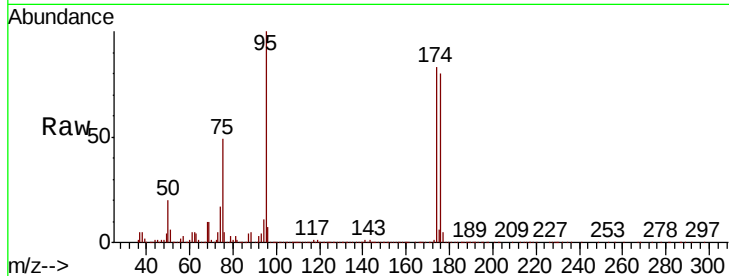




#81
trans-1,4-Dichloro-2-butene
Concen: 64.426 ug/l
RT: 11.13 min Scan# 1680
Delta R.T. 0.06 min
Lab File: VX014920.D
Acq: 12 Feb 2020 13:08

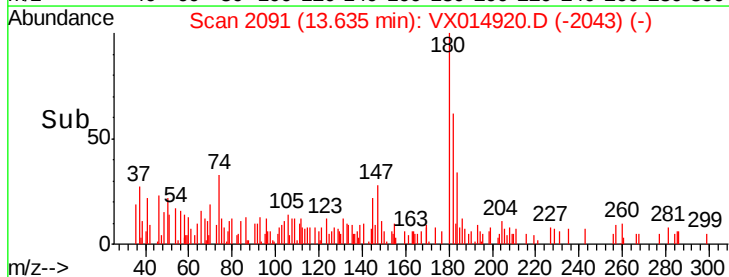
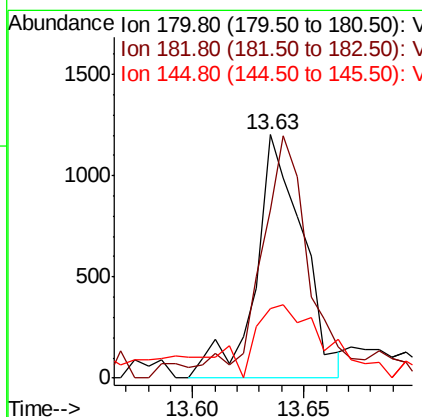
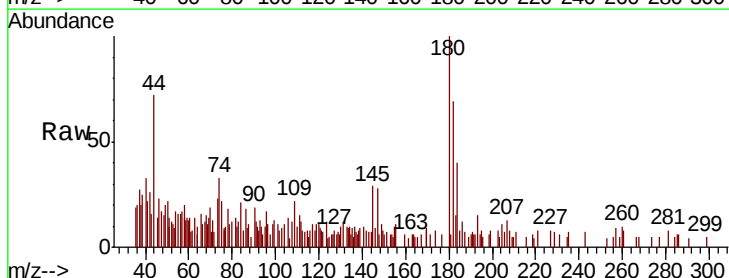
Instrument :
MSVOA_X
ClientSampleId :

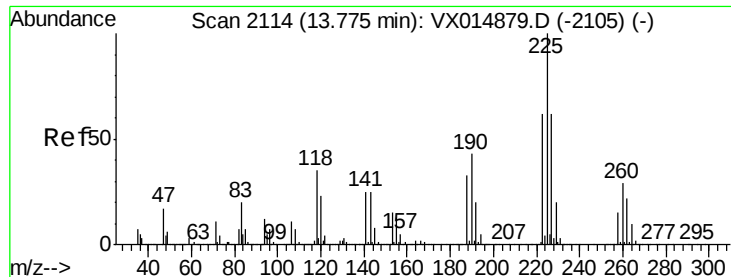
Tot Ion: 75 Resp: 151514
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.1 35.8 53.6#



#93
1,2,4-Trichlorobenzene
Concen: 0.234 ug/l
RT: 13.63 min Scan# 2091
Delta R.T. -0.01 min
Lab File: VX014920.D
Acq: 12 Feb 2020 13:08

Tgt Ion:180 Resp: 1772
Ion Ratio Lower Upper
180 100
182 105.9 48.4 145.3
145 43.5 14.1 42.4#





#94

Hexachlorobutadiene

Concen: 0.212 ug/l

RT: 13.78 min Scan# 2114

Delta R.T. -0.00 min

Lab File: VX014920.D

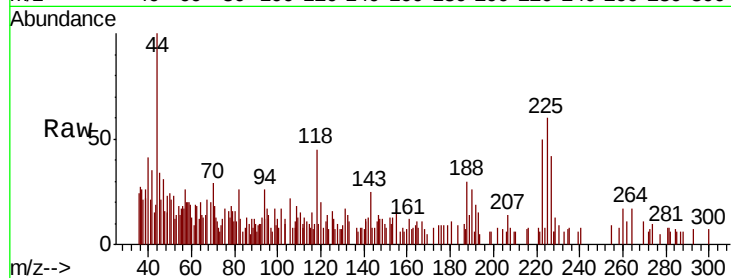
Acq: 12 Feb 2020 13:08

Instrument :

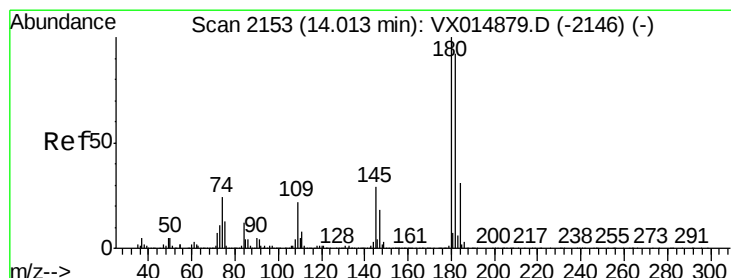
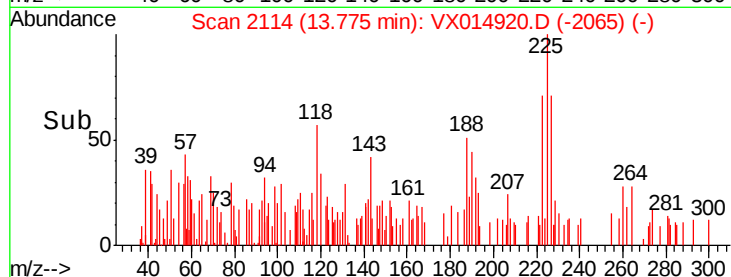
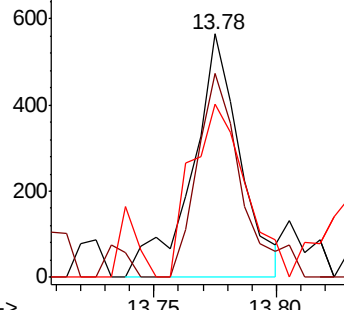
MSVOA_X

ClientSampled :

Tot Ion:	225	Resp:	775
Ion	Ratio	Lower	Upper
225	100		
223	77.4	31.1	93.2
227	80.1	30.9	92.5



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 0.215 ug/l

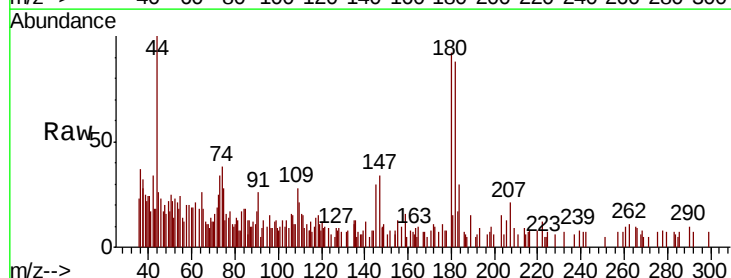
RT: 14.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VX014920.D

Acq: 12 Feb 2020 13:08

Tgt Ion:	180	Resp:	1573
Ion	Ratio	Lower	Upper
180	100		
182	100.8	47.5	142.6
145	27.7	14.5	43.5



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

