

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083120\
 Data File : VX018171.D
 Acq On : 01 Sep 2020 01:24
 Operator : JC/SP
 Sample : L3828-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC

Quant Time: Sep 01 05:44:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	441189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	730581	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	707369	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	324069	50.00	ug/l	0.00

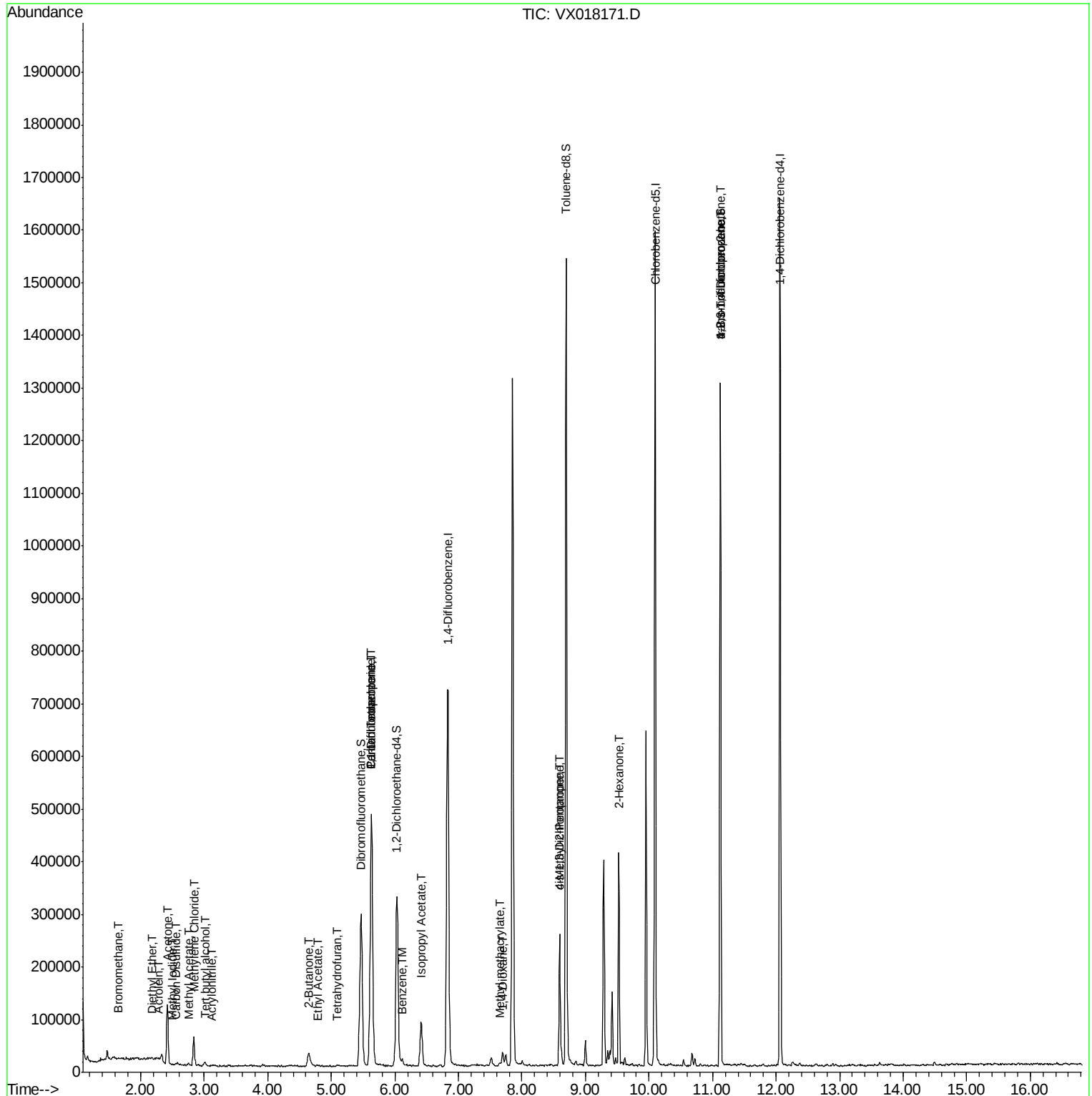
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.03	65	321052	52.42	ug/l	0.00
Spiked Amount			Recovery	=	104.84%	
35) Dibromofluoromethane	5.47	113	253222	50.89	ug/l	0.00
Spiked Amount			Recovery	=	101.78%	
50) Toluene-d8	8.70	98	905144	48.84	ug/l	0.00
Spiked Amount			Recovery	=	97.68%	
62) 4-Bromofluorobenzene	11.12	95	333575	45.75	ug/l	0.00
Spiked Amount			Recovery	=	91.50%	

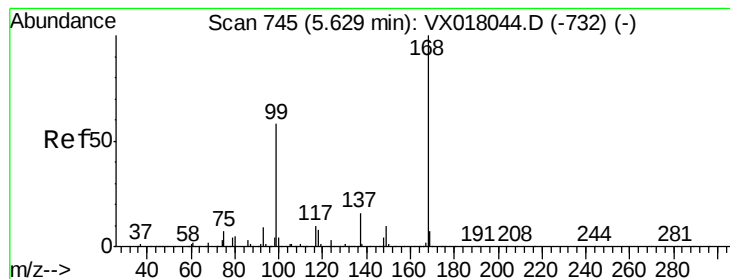
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	706	0.260	ug/l #	71
8) Diethyl Ether	2.18	74	1170	0.449	ug/l	72
10) Methyl Iodide	2.50	142	504	5.388	ug/l #	27
11) Tert butyl alcohol	3.02	59	8087	6.791	ug/l	96
13) Acrolein	2.29	56	695	1.407	ug/l #	28
15) Acrylonitrile	3.12	53	649	0.240	ug/l #	26
16) Acetone	2.42	43	122924	51.506	ug/l	95
17) Carbon Disulfide	2.55	76	3132	0.240	ug/l #	94
18) Methyl Acetate	2.75	43	7083	1.230	ug/l #	80
20) Methylene Chloride	2.84	84	24885	4.026	ug/l	97
25) 2-Butanone	4.65	43	34099	8.694	ug/l	98
29) Tetrahydrofuran	5.08	42	694	0.278	ug/l #	80
36) 1,1-Dichloropropene	5.63	75	34024	5.049	ug/l #	53
37) Ethyl Acetate	4.79	43	3009	0.384	ug/l #	84
38) Carbon Tetrachloride	5.63	117	46075	6.067	ug/l #	17
40) Benzene	6.12	78	12458	0.629	ug/l #	80
43) Isopropyl Acetate	6.42	43	117429	9.290	ug/l	99
48) Methyl methacrylate	7.65	41	6317	1.004	ug/l #	17
49) 1,4-Dioxane	7.71	88	224	1.965	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	92894	11.897	ug/l #	48
54) cis-1,3-Dichloropropene	8.60	75	39138	4.449	ug/l #	62
59) 2-Hexanone	9.52	43	45889	7.729	ug/l #	53
76) 1,2,3-Trichloropropane	11.12	75	172856	23.978	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	172856	64.760	ug/l #	12

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

```
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ALS Vial  : 38 Sample Multiplier: 1
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Quant Time: Sep 01 05:44:23 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 21 03:03:56 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

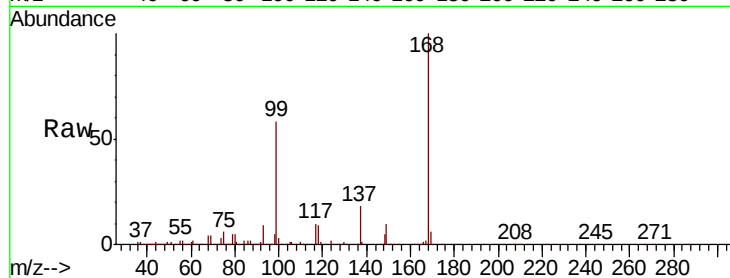
WC

Tot Ion:168 Resp: 441189

Ion Ratio Lower Upper

168 100

99 57.7 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

150000

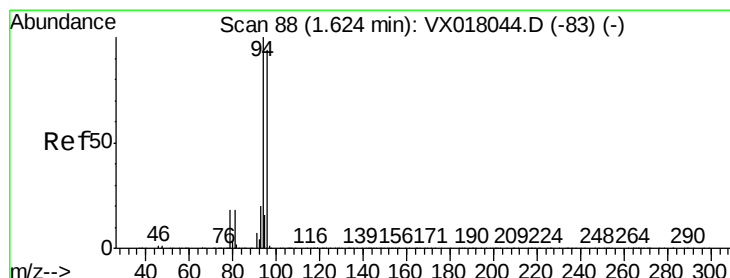
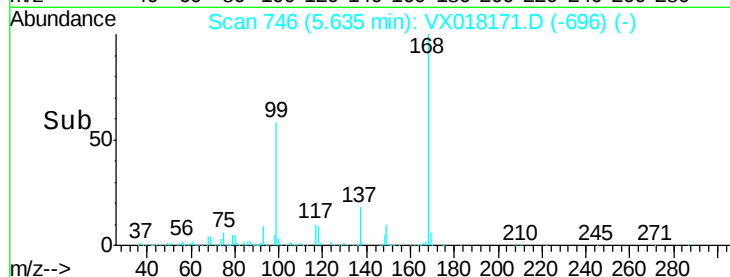
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.260 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX018171.D

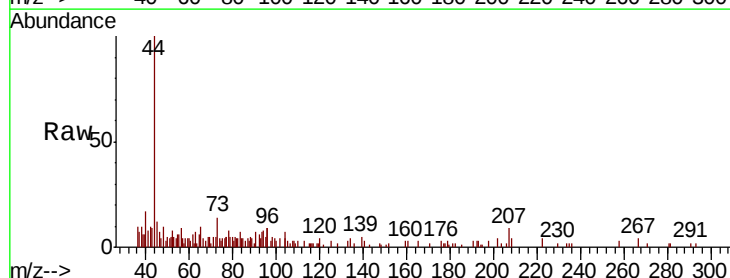
Acq: 01 Sep 2020 01:24

Tgt Ion: 94 Resp: 706

Ion Ratio Lower Upper

94 100

96 121.8 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

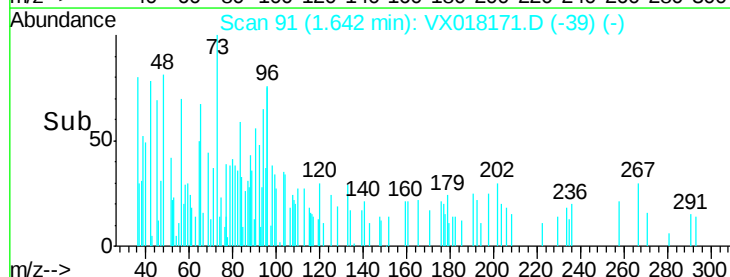
400

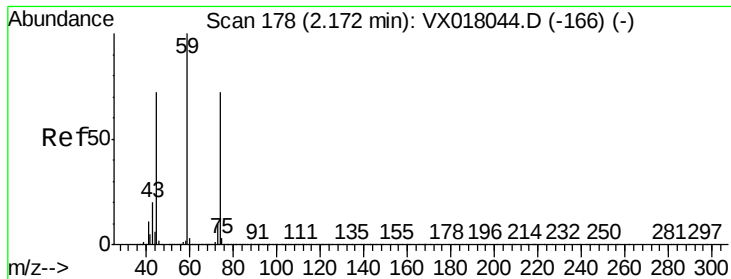
200

0

Time-->

1.60 1.65





#8

Diethyl Ether

Concen: 0.449 ug/l

RT: 2.18 min Scan# 179

Delta R.T. 0.01 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

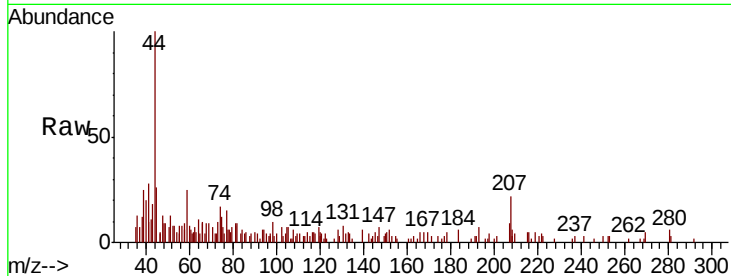
WC

Tot Ion: 74 Resp: 1170

Ion Ratio Lower Upper

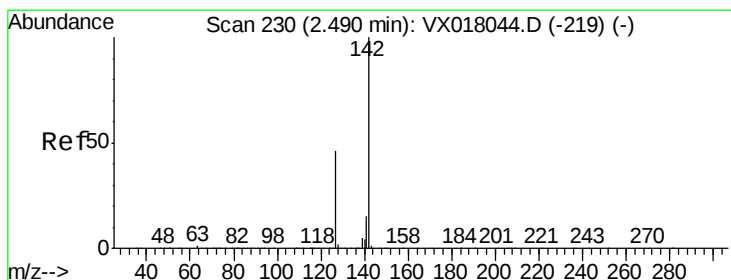
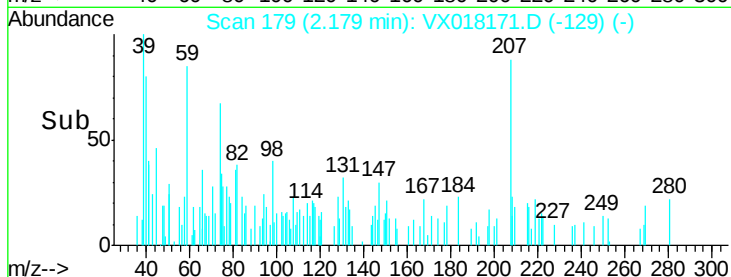
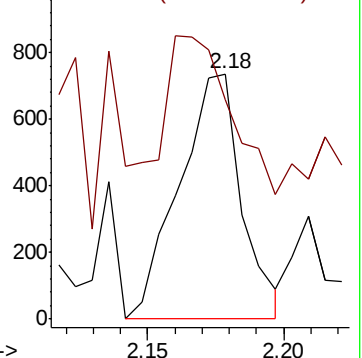
74 100

45 73.7 50.7 152.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 5.388 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

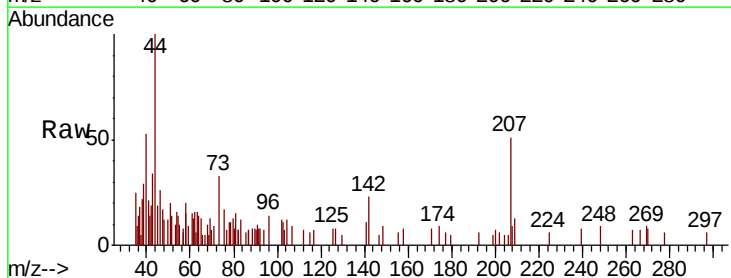
Tgt Ion: 142 Resp: 504

Ion Ratio Lower Upper

142 100

127 0.0 37.0 55.6#

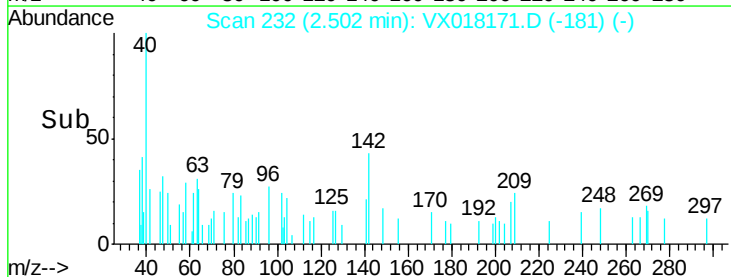
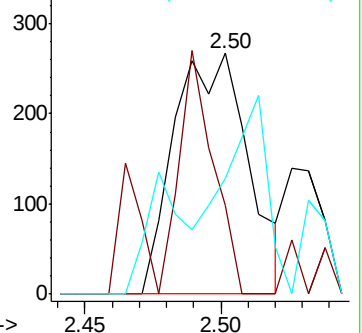
141 48.8 11.5 17.3#

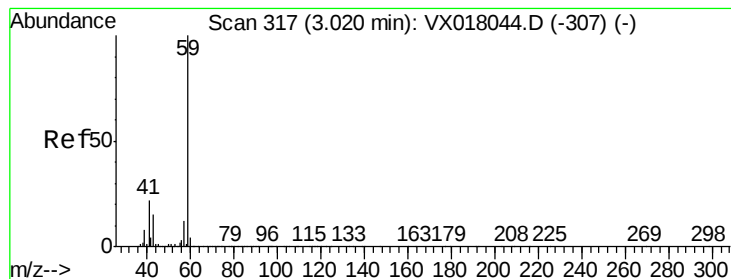


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



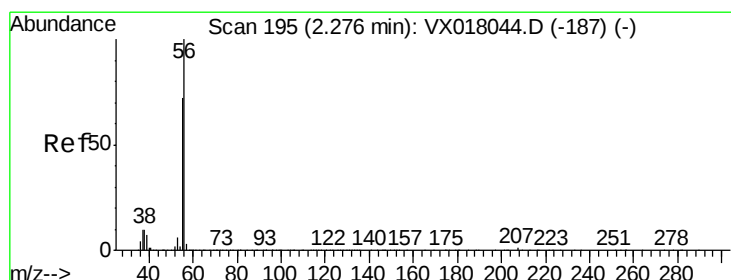
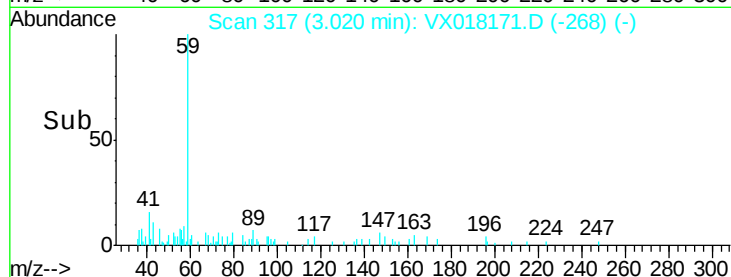
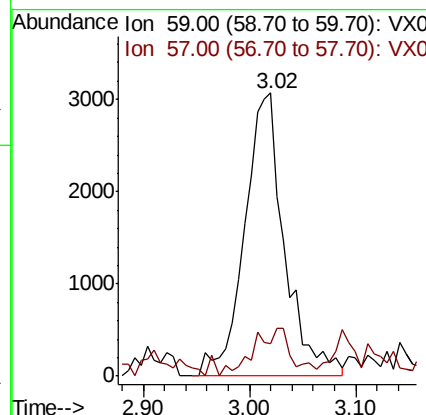
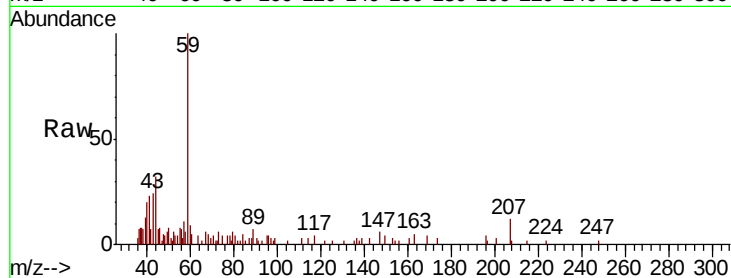


#11

Tert butyl alcohol
 Concen: 6.791 ug/l
 RT: 3.02 min Scan# 317
 Delta R.T. -0.00 min
 Lab File: VX018171.D
 Acq: 01 Sep 2020 01:24

Instrument :
 MSVOA_X
 ClientSampleId :
 WC

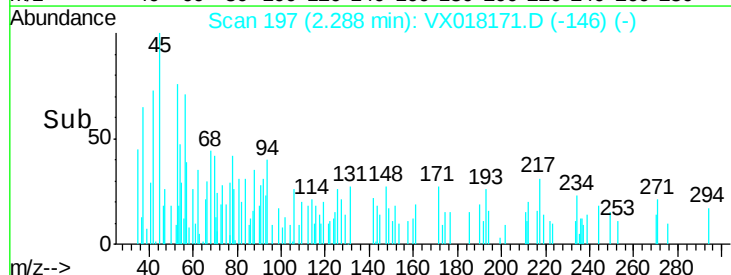
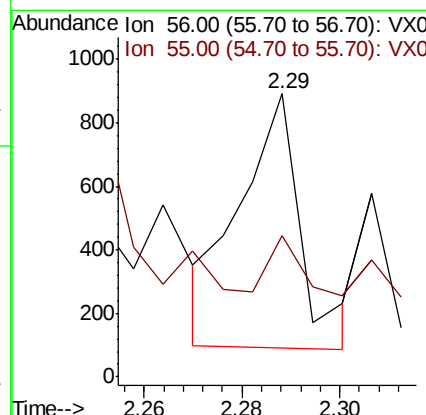
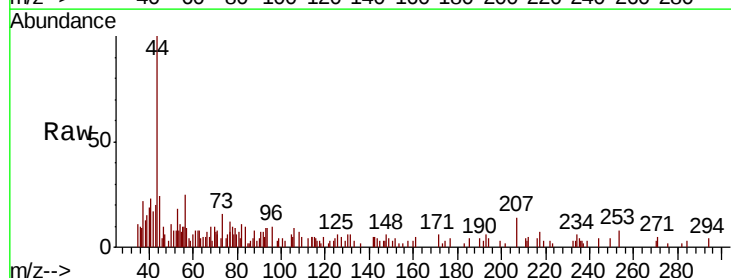
Tot Ion: 59 Resp: 8087
 Ion Ratio Lower Upper
 59 100
 57 12.7 8.9 13.3

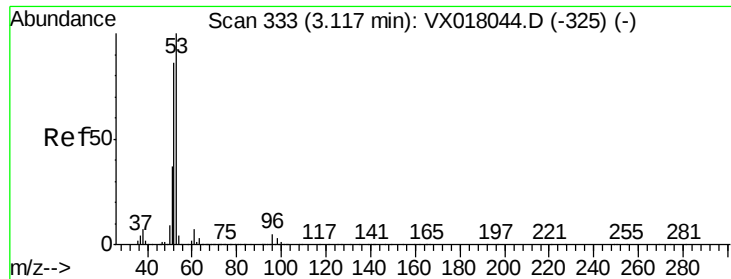


#13

Acrolein
 Concen: 1.407 ug/l
 RT: 2.29 min Scan# 197
 Delta R.T. 0.01 min
 Lab File: VX018171.D
 Acq: 01 Sep 2020 01:24

Tgt Ion: 56 Resp: 695
 Ion Ratio Lower Upper
 56 100
 55 11.2 57.0 85.6#





#15

Acrylonitrile

Concen: 0.240 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampled :

WC

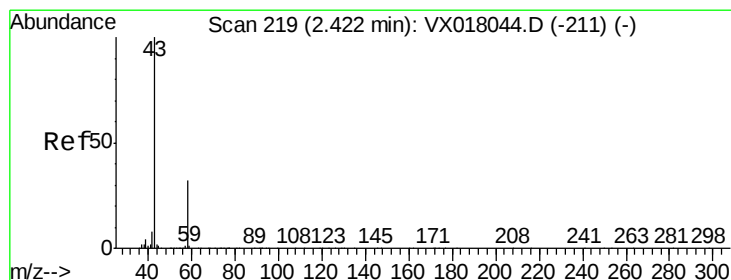
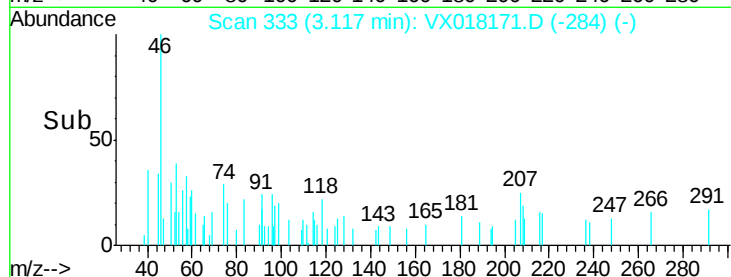
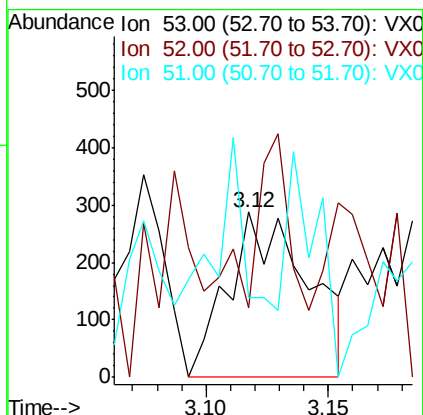
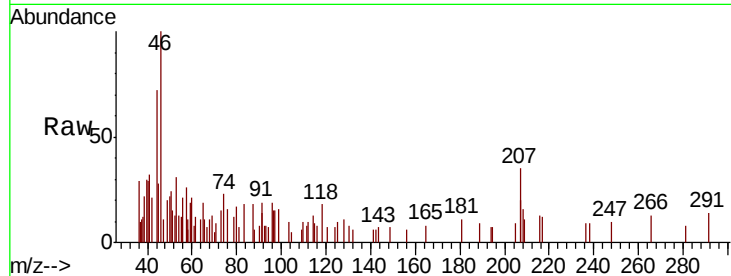
Tot Ion: 53 Resp: 649

Ion Ratio Lower Upper

53 100

52 0.0 66.9 100.3#

51 54.5 28.7 43.1#



#16

Acetone

Concen: 51.506 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX018171.D

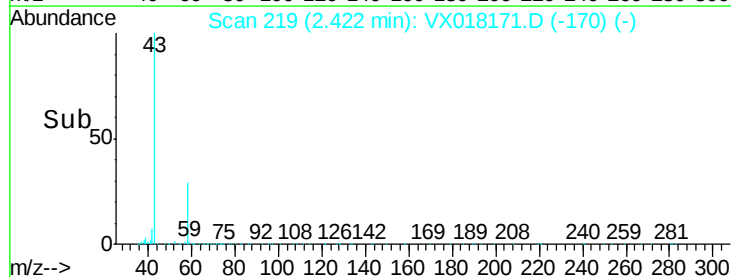
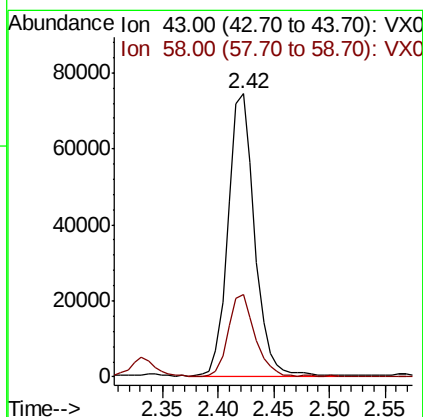
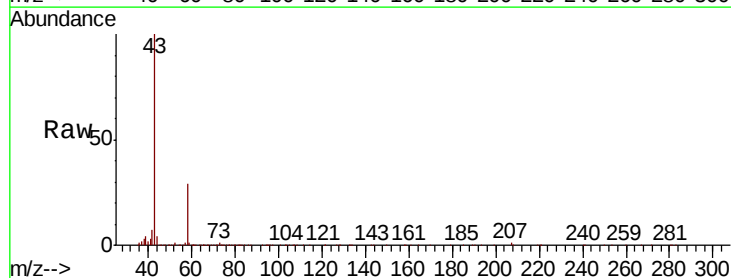
Acq: 01 Sep 2020 01:24

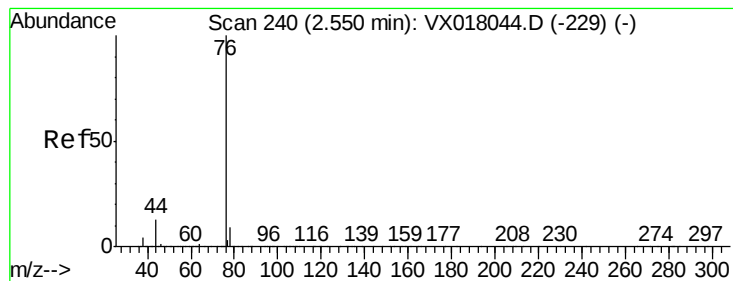
Tgt Ion: 43 Resp: 122924

Ion Ratio Lower Upper

43 100

58 29.0 25.5 38.3





#17

Carbon Disulfide

Concen: 0.240 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

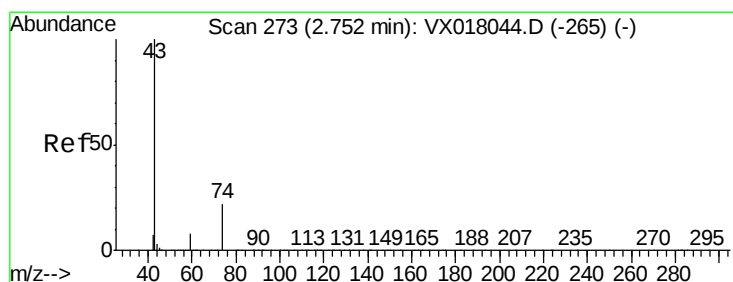
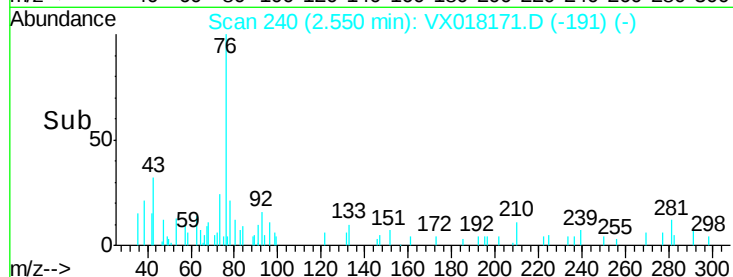
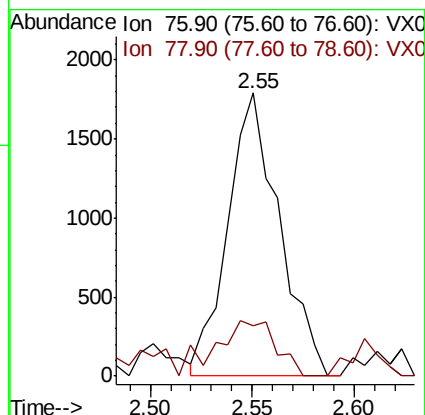
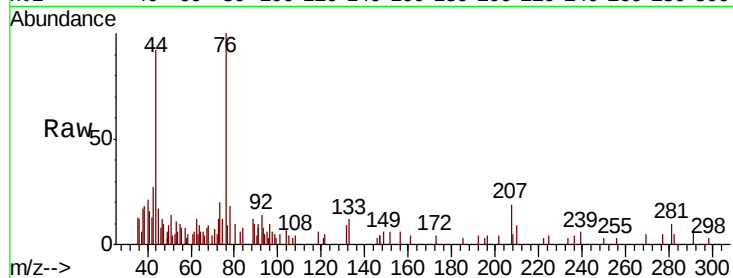
WC

Tot Ion: 76 Resp: 3132

Ion Ratio Lower Upper

76 100

78 11.5 7.4 11.0#



#18

Methyl Acetate

Concen: 1.230 ug/l

RT: 2.75 min Scan# 273

Delta R.T. -0.00 min

Lab File: VX018171.D

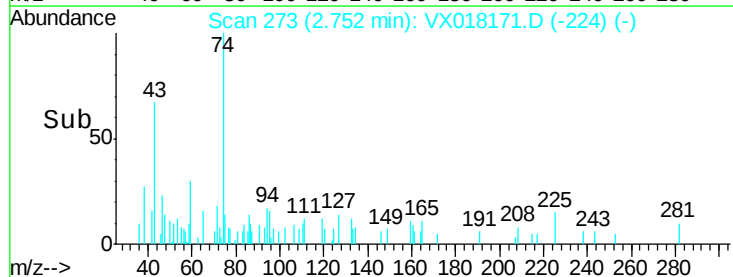
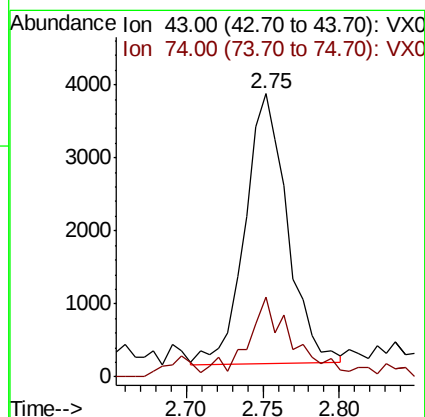
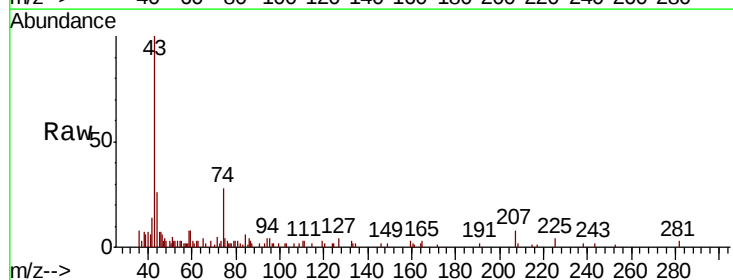
Acq: 01 Sep 2020 01:24

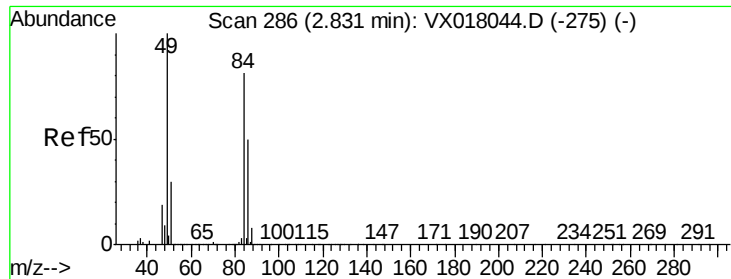
Tgt Ion: 43 Resp: 7083

Ion Ratio Lower Upper

43 100

74 32.2 18.2 27.4#

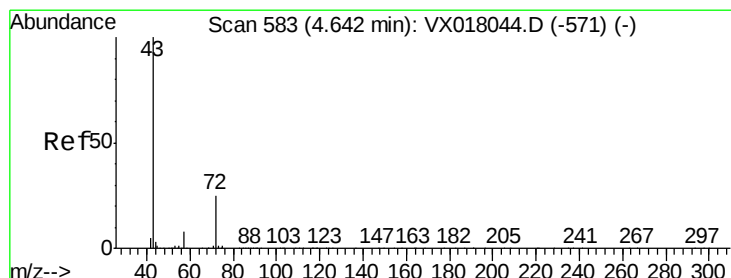
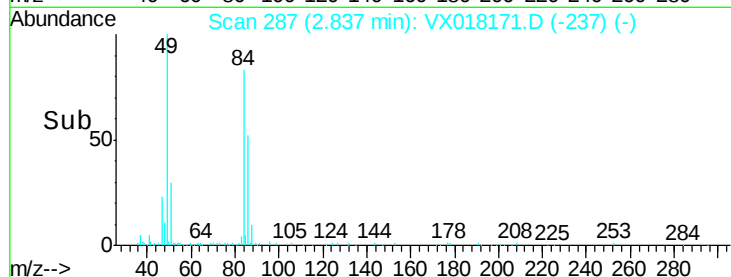
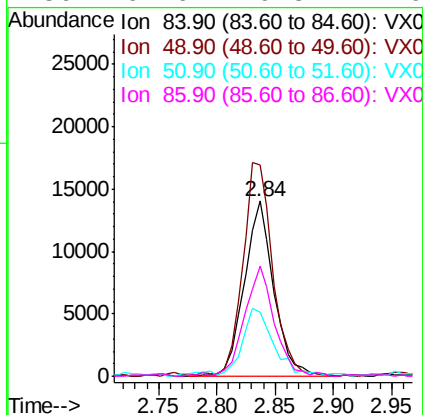
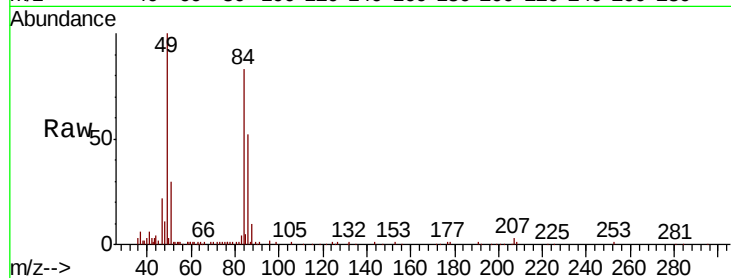




#20
Methvlene Chloride
Concen: 4.026 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018171.D
Acq: 01 Sep 2020 01:24

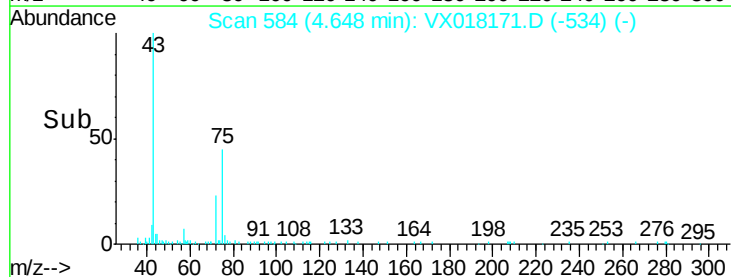
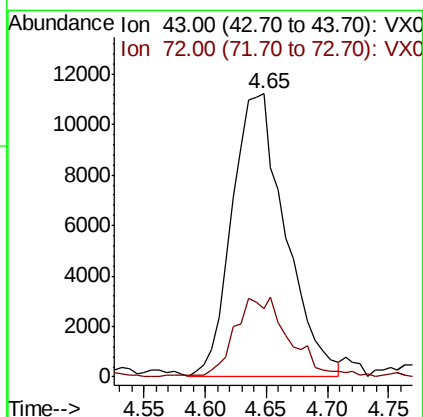
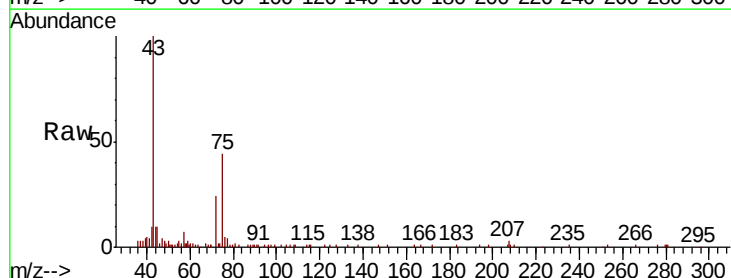
Instrument :
MSVOA_X
ClientSampled :
WC

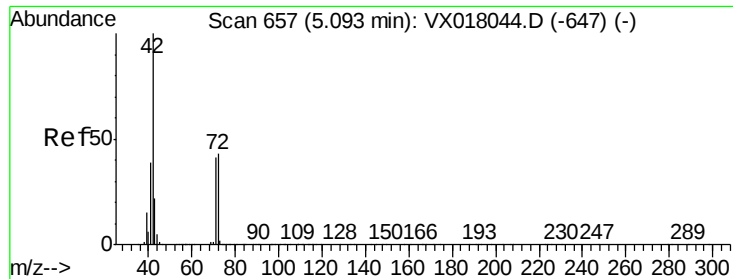
Tot Ion: 84 Resp: 24885
Ion Ratio Lower Upper
84 100
49 119.3 98.6 148.0
51 35.0 29.6 44.4
86 62.6 49.8 74.6



#25
2-Butanone
Concen: 8.694 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX018171.D
Acq: 01 Sep 2020 01:24

Tgt Ion: 43 Resp: 34099
Ion Ratio Lower Upper
43 100
72 23.5 19.8 29.6

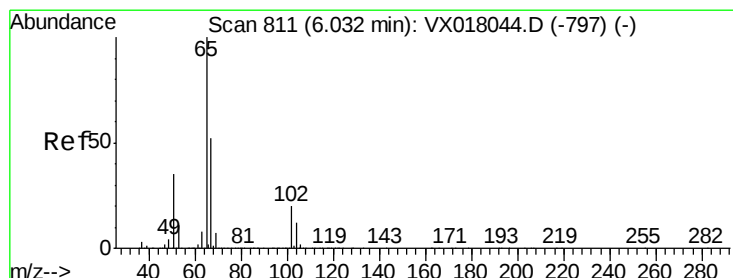
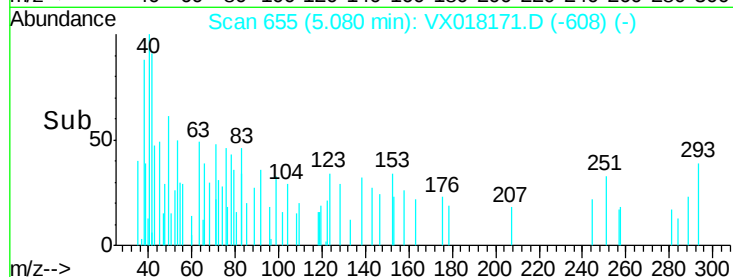
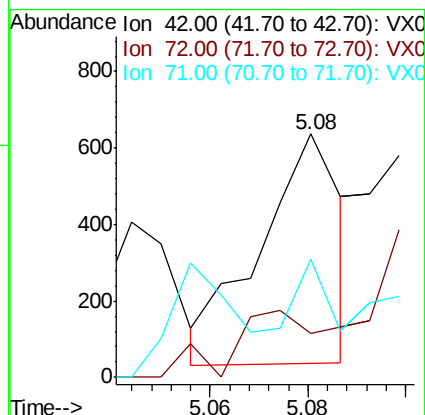
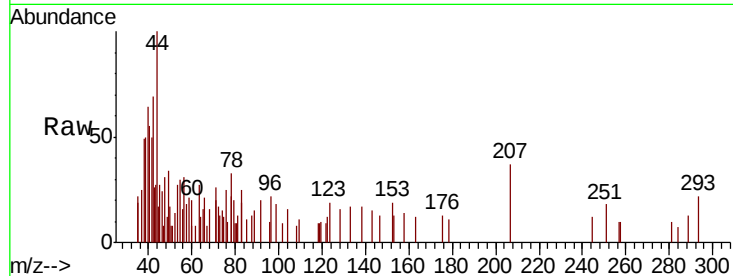




#29
Tetrahydrofuran
Concen: 0.278 ug/l
RT: 5.08 min Scan# 655
Delta R.T. -0.01 min
Lab File: VX018171.D
Acq: 01 Sep 2020 01:24

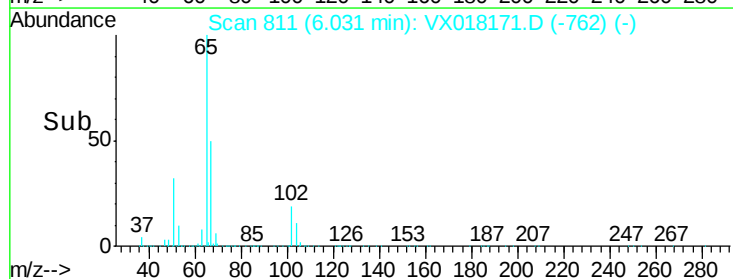
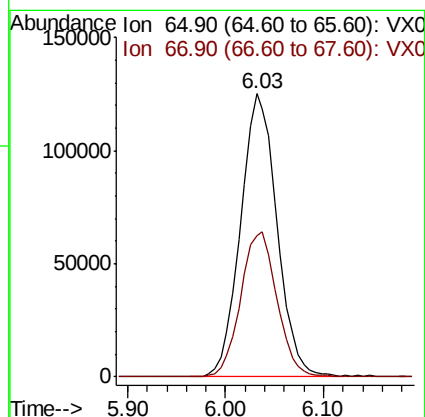
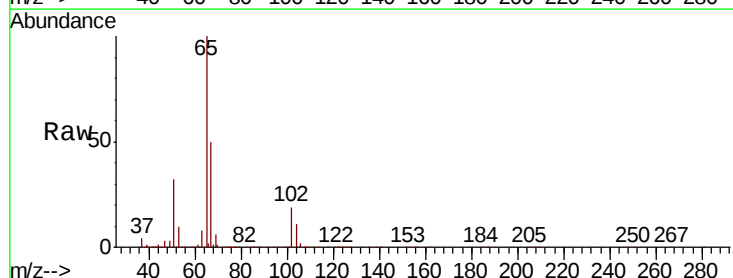
Instrument :
MSVOA_X
ClientSampleId :
WC

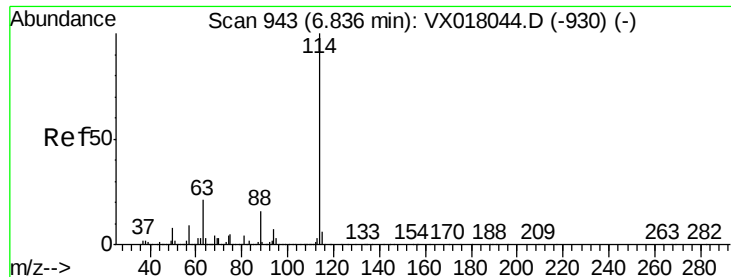
Tot Ion: 42 Resp: 694
Ion Ratio Lower Upper
42 100
72 28.4 34.2 51.4#
71 29.4 32.1 48.1#



#33
1,2-Dichloroethane-d4
Concen: 52.418 ug/l
RT: 6.03 min Scan# 811
Delta R.T. -0.00 min
Lab File: VX018171.D
Acq: 01 Sep 2020 01:24

Tgt Ion: 65 Resp: 321052
Ion Ratio Lower Upper
65 100
67 51.8 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.84 min Scan# 943

Delta R.T. -0.00 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

WC

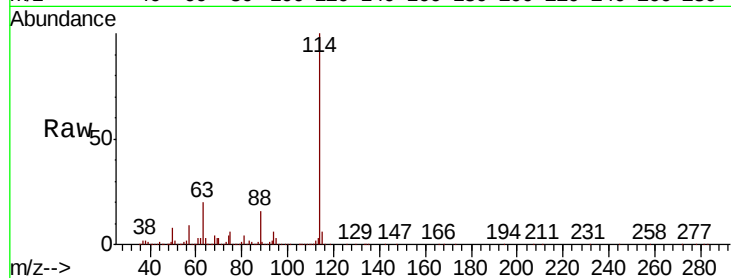
Tot Ion:114 Resp: 730581

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

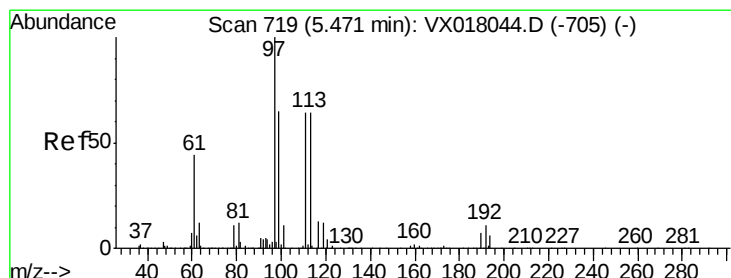
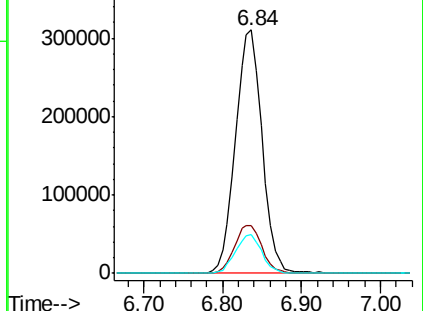
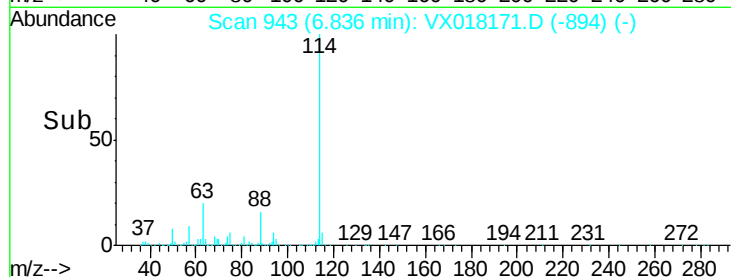
88 15.9 0.0 31.8



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: 50.893 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

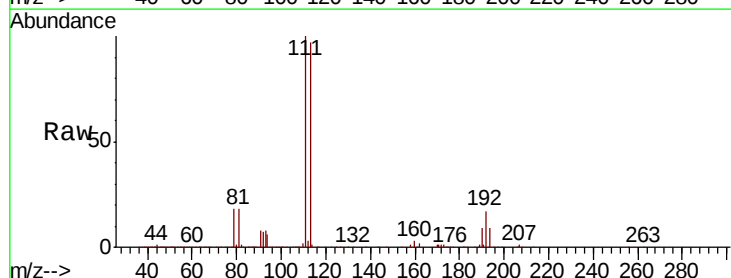
Tgt Ion:113 Resp: 253222

Ion Ratio Lower Upper

113 100

111 102.3 81.6 122.4

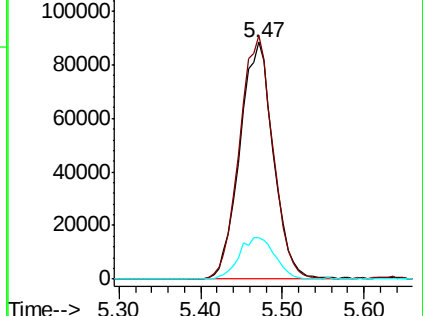
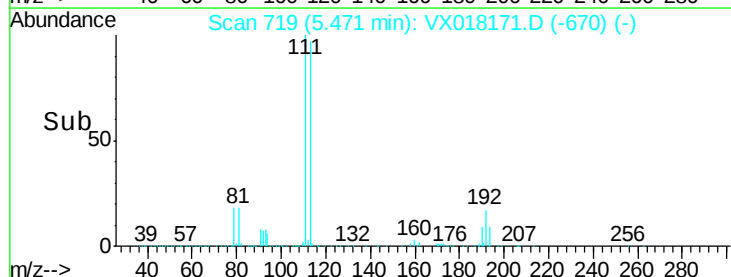
192 18.7 15.8 23.8

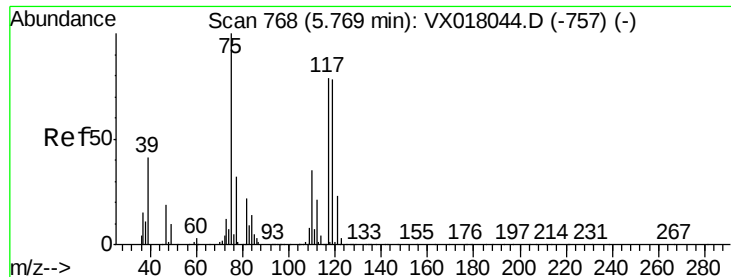


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.049 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampled :

WC

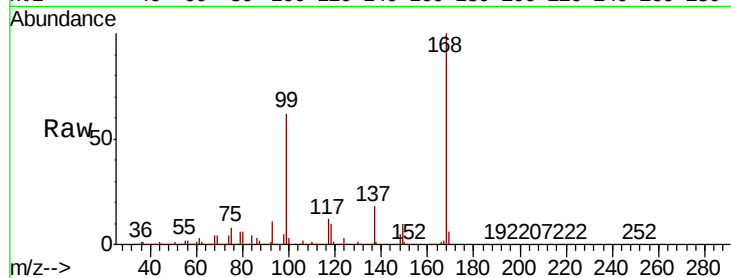
Tot Ion: 75 Resp: 34024

Ion Ratio Lower Upper

75 100

110 11.7 18.0 54.0#

77 0.9 24.4 36.6#



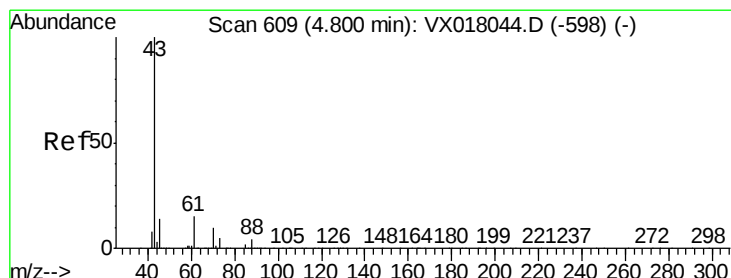
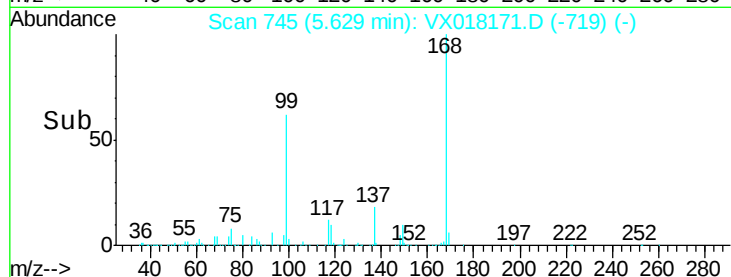
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

5.63

Time-->



#37

Ethyl Acetate

Concen: 0.384 ug/l

RT: 4.79 min Scan# 608

Delta R.T. -0.01 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

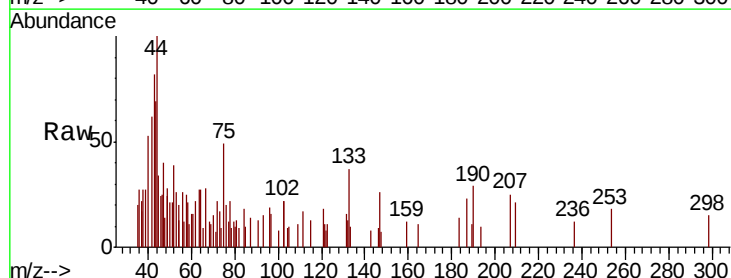
Tgt Ion: 43 Resp: 3009

Ion Ratio Lower Upper

43 100

61 5.5 11.3 16.9#

70 6.6 8.2 12.4#



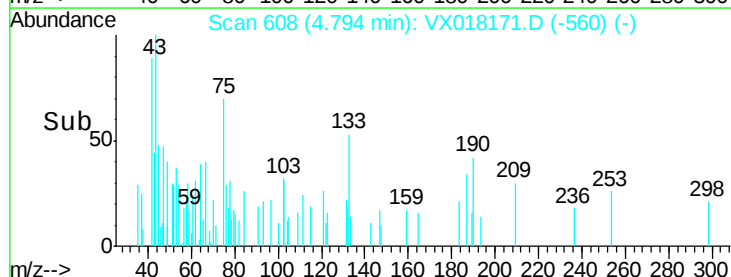
Abundance Ion 43.00 (42.70 to 43.70): VX0

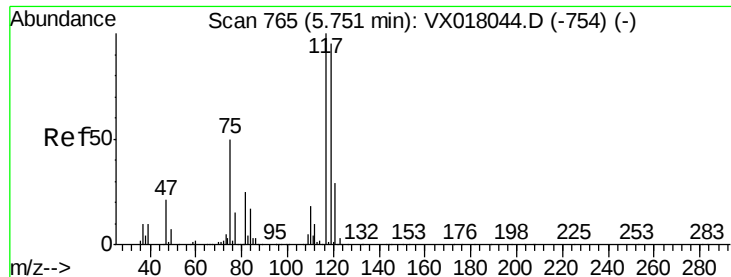
Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0

4.79

Time-->





#38

Carbon Tetrachloride

Concen: 6.067 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

WC

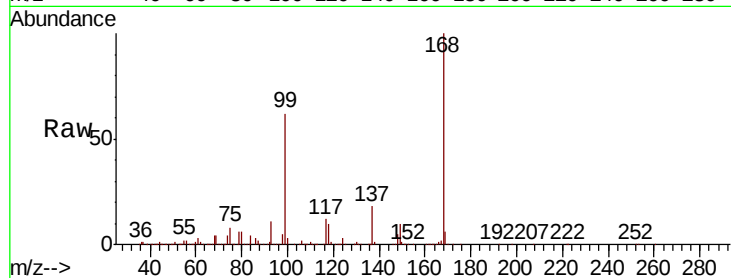
Tot Ion:117 Resp: 46075

Ion Ratio Lower Upper

117 100

119 5.3 75.8 113.6#

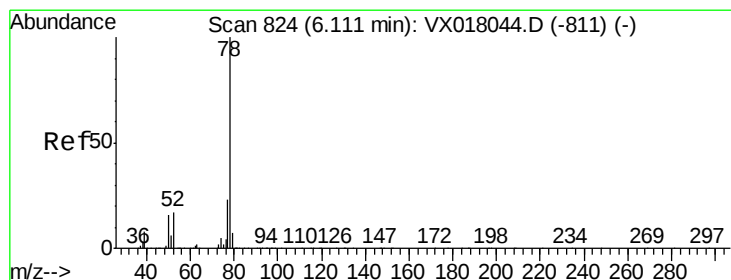
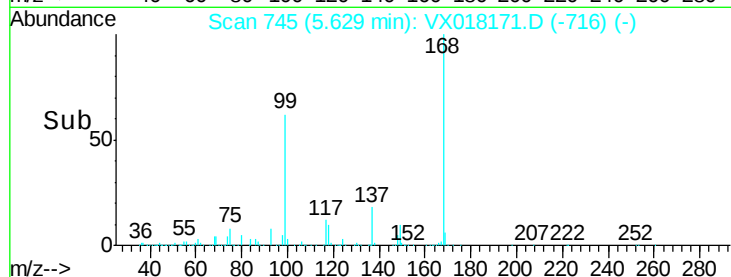
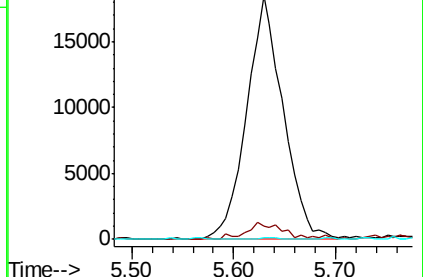
121 0.8 23.4 35.0#



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



#40

Benzene

Concen: 0.629 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX018171.D

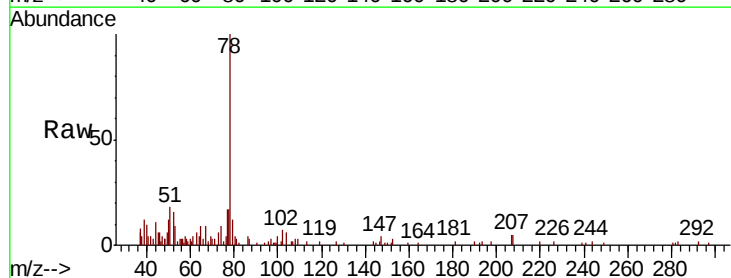
Acq: 01 Sep 2020 01:24

Tgt Ion: 78 Resp: 12458

Ion Ratio Lower Upper

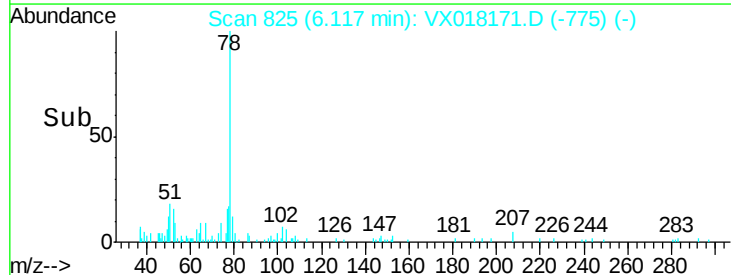
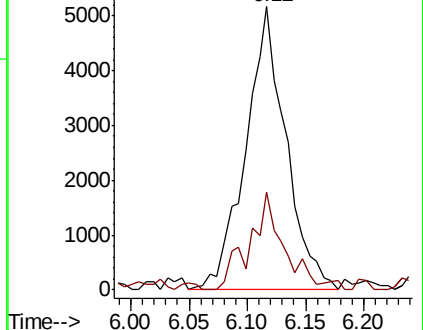
78 100

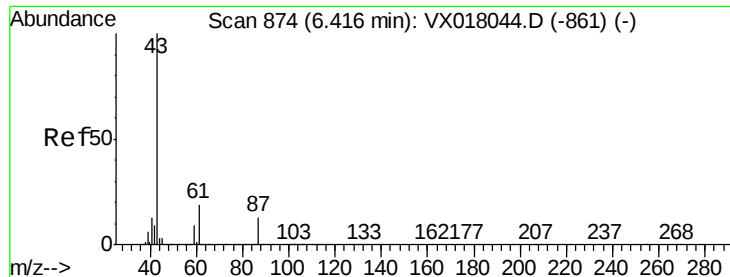
77 32.2 18.2 27.2#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 9.290 ug/l

RT: 6.42 min Scan# 874

Delta R.T. -0.00 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

WC

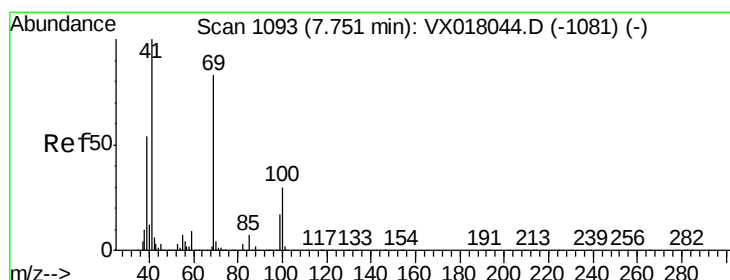
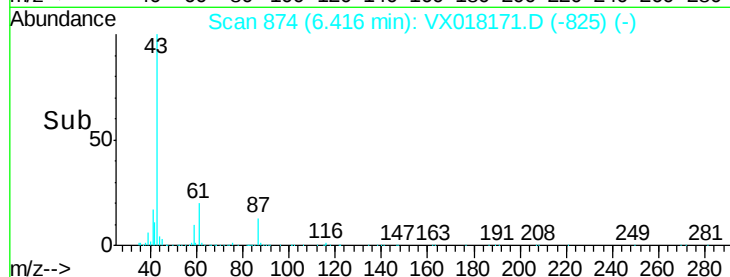
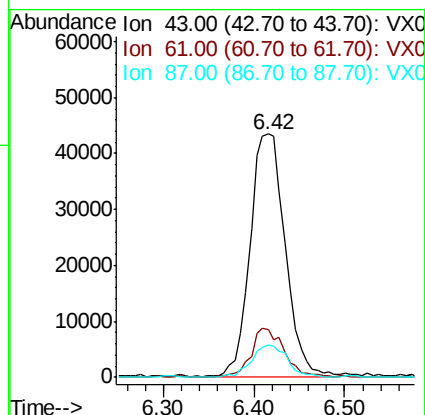
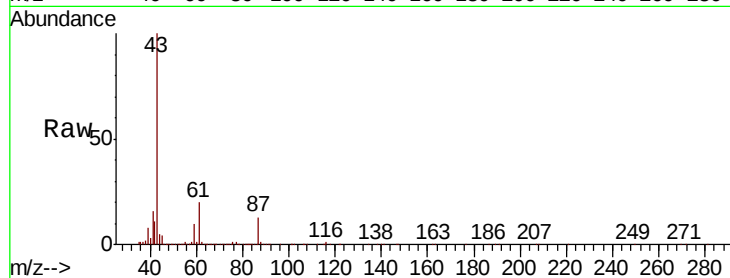
Tot Ion: 43 Resp: 117429

Ion Ratio Lower Upper

43 100

61 19.0 15.7 23.5

87 13.5 10.3 15.5



#48

Methyl methacrylate

Concen: 1.004 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.10 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

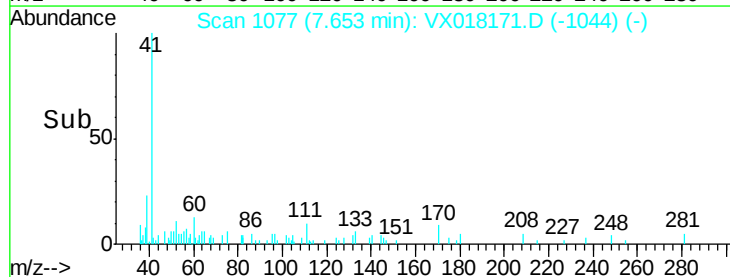
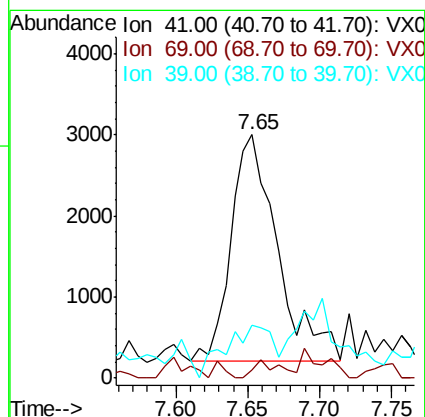
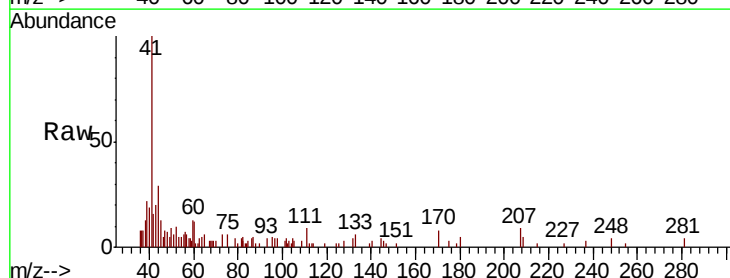
Tgt Ion: 41 Resp: 6317

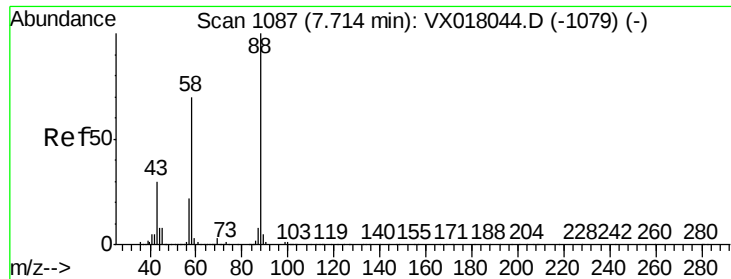
Ion Ratio Lower Upper

41 100

69 4.1 65.5 98.3#

39 0.0 44.5 66.7#





#49

1,4-Dioxane

Concen: 1.965 ug/l

RT: 7.71 min Scan# 1086

Delta R.T. -0.01 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

WC

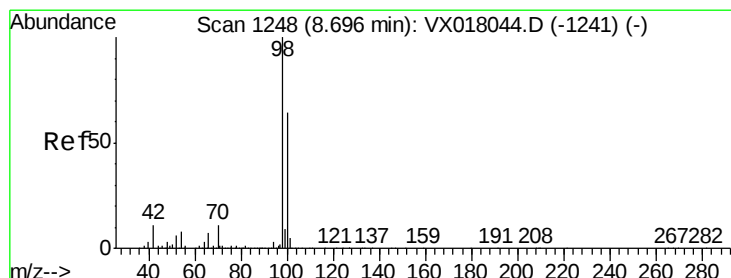
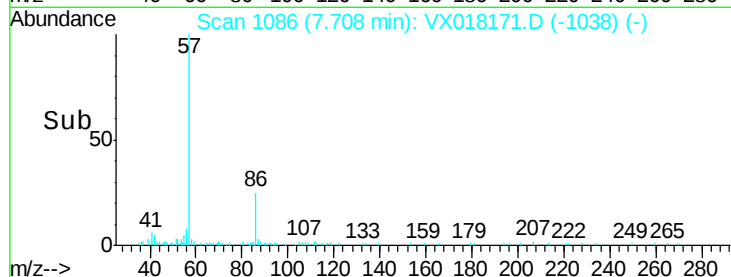
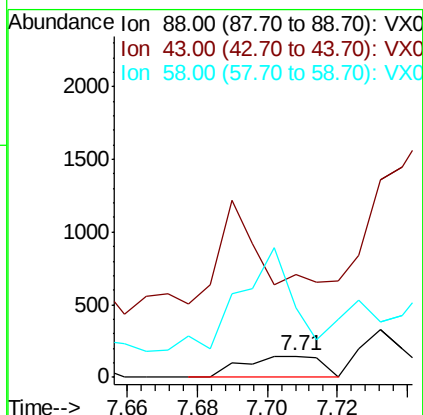
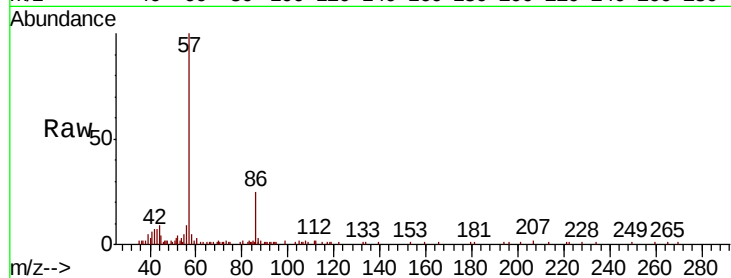
Tot Ion: 88 Resp: 224

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 328.6 56.4 84.6#



#50

Toluene-d8

Concen: 48.842 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018171.D

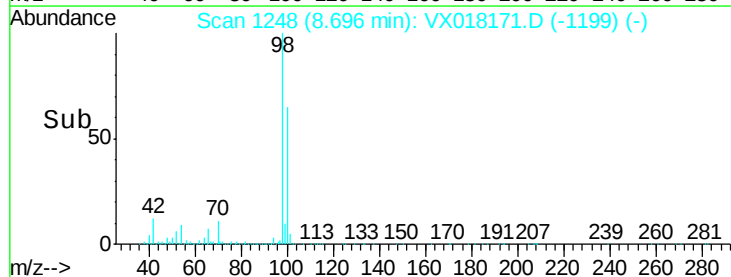
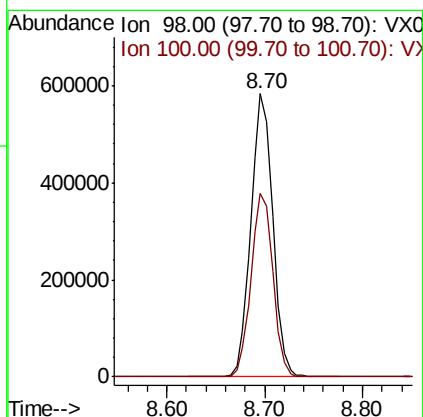
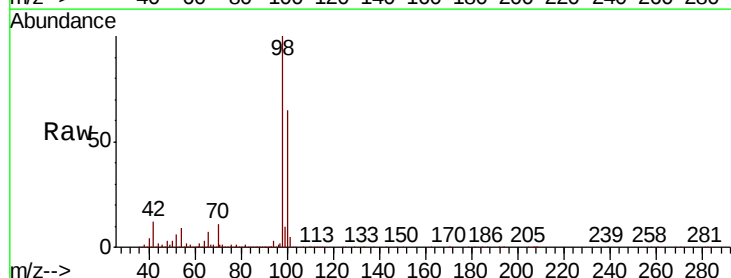
Acq: 01 Sep 2020 01:24

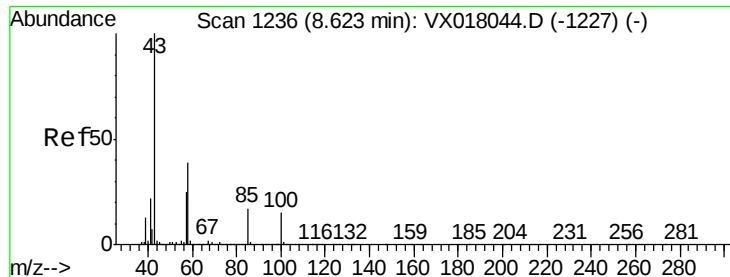
Tgt Ion: 98 Resp: 905144

Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 11.897 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

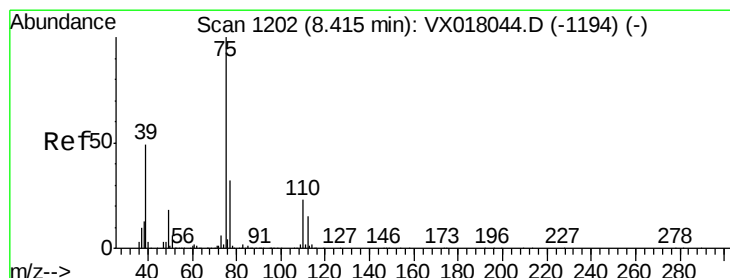
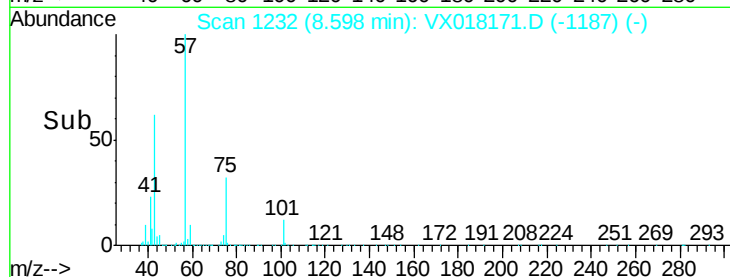
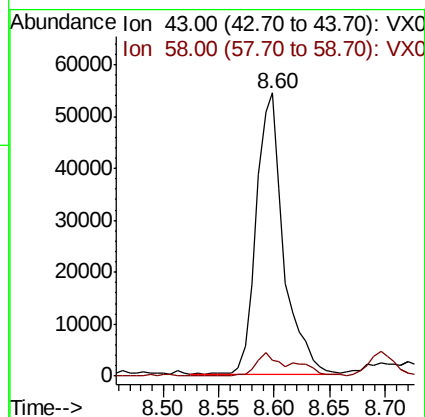
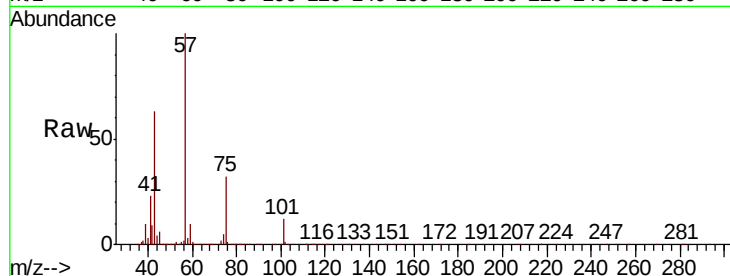
WC

Tot Ion: 43 Resp: 92894

Ion Ratio Lower Upper

43 100

58 6.9 30.7 46.1#



#54

cis-1,3-Dichloropropene

Concen: 4.449 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. 0.18 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

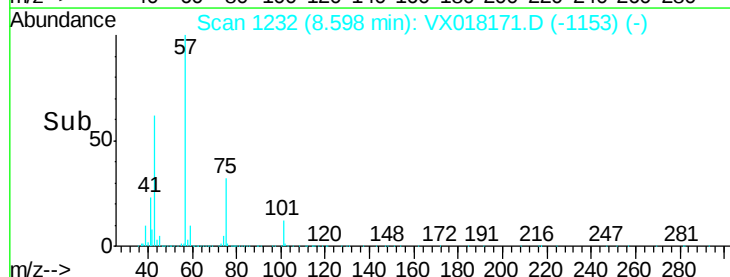
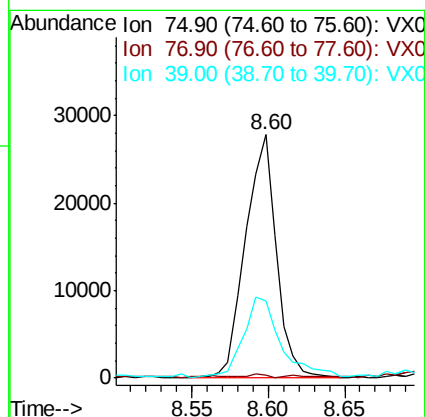
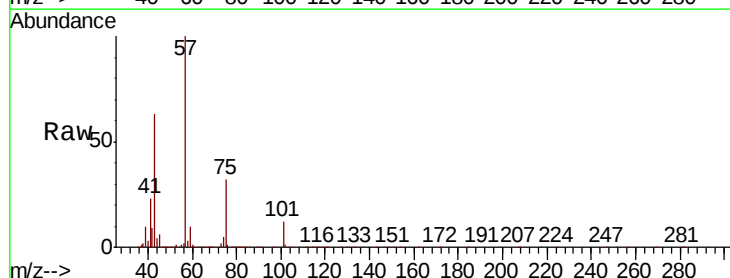
Tgt Ion: 75 Resp: 39138

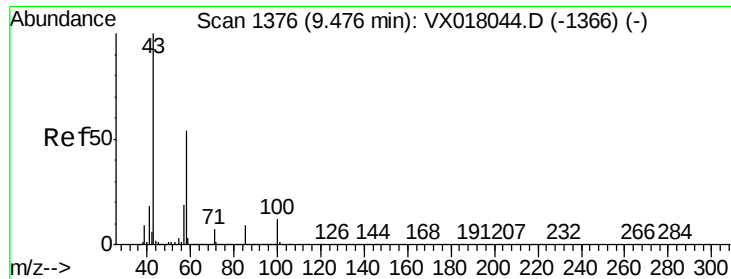
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 31.1 38.8 58.2#





#59

2-Hexanone

Concen: 7.729 ug/l

RT: 9.52 min Scan# 1384

Delta R.T. 0.05 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

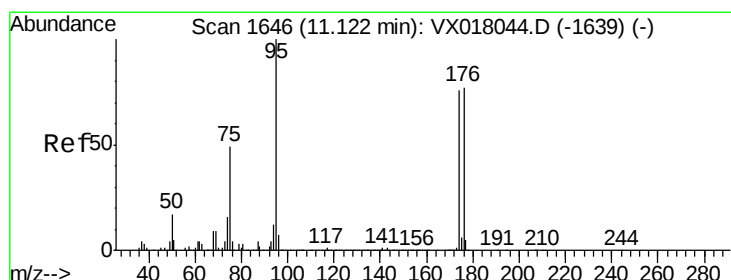
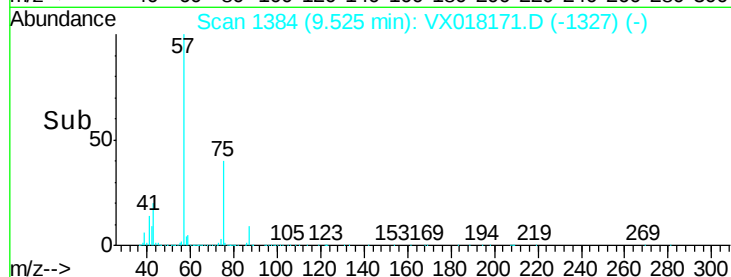
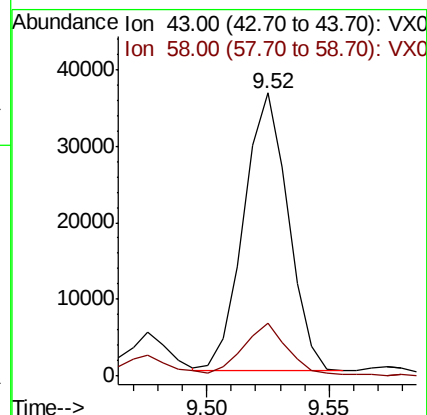
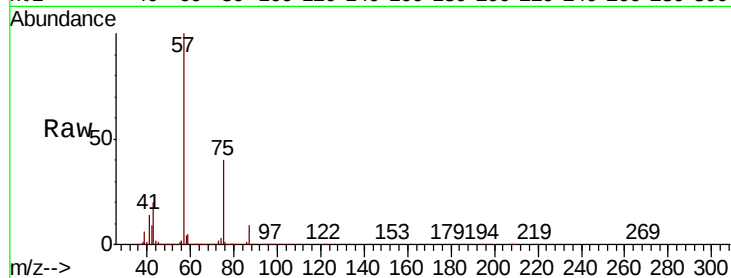
WC

Tot Ion: 43 Resp: 45889

Ion Ratio Lower Upper

43 100

58 19.6 26.6 79.7#



#62

4-Bromofluorobenzene

Concen: 45.750 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

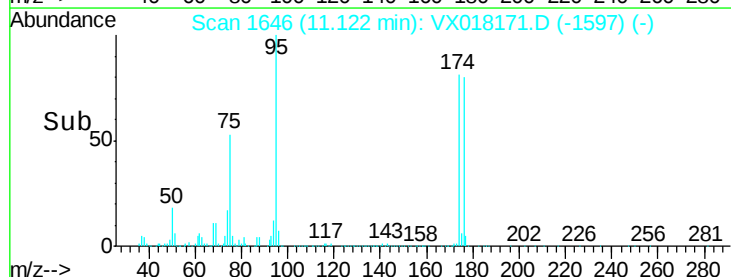
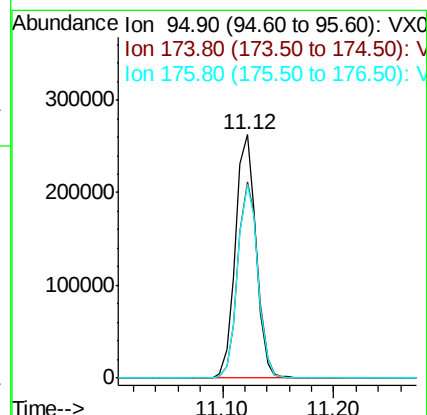
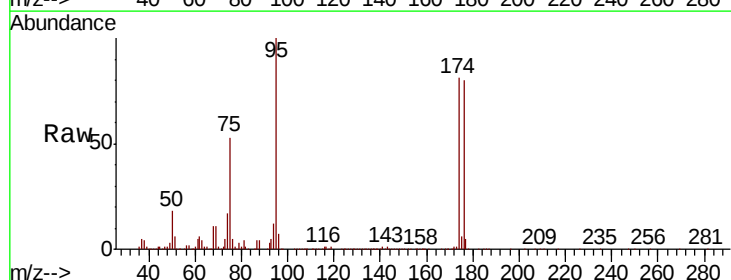
Tgt Ion: 95 Resp: 333575

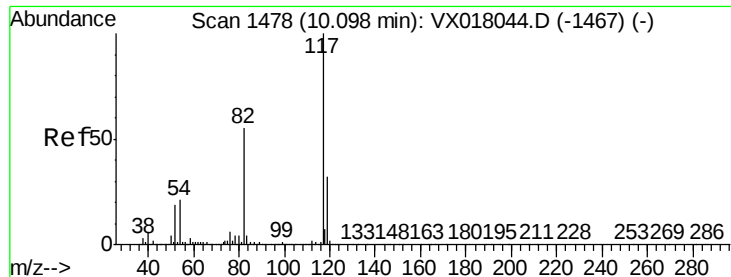
Ion Ratio Lower Upper

95 100

174 79.9 0.0 160.2

176 78.6 0.0 155.8

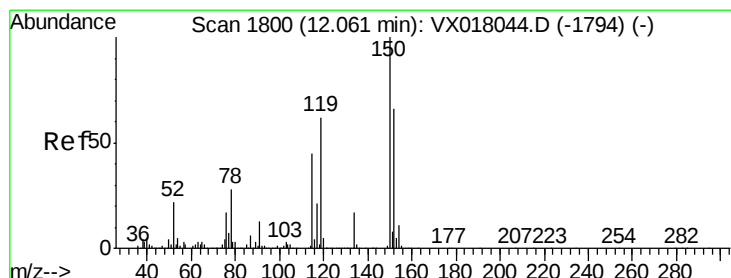
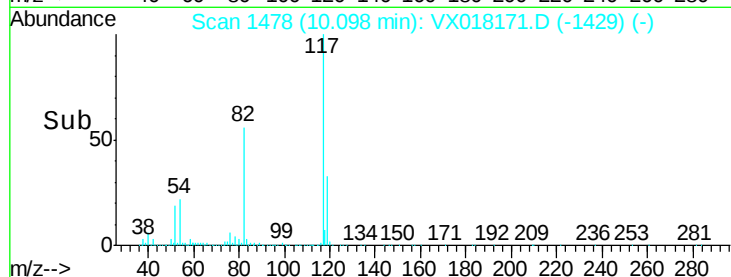
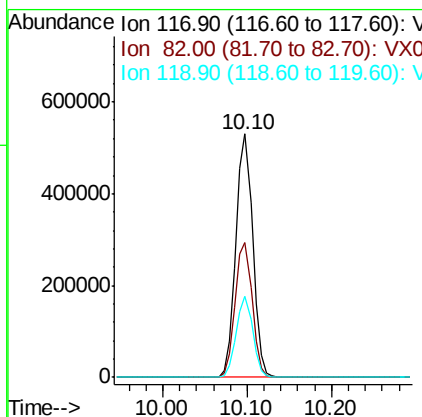
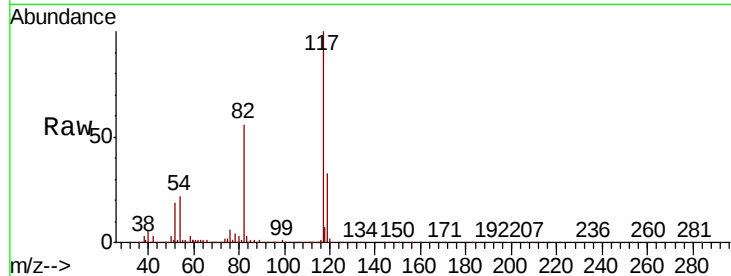




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018171.D
Acq: 01 Sep 2020 01:24

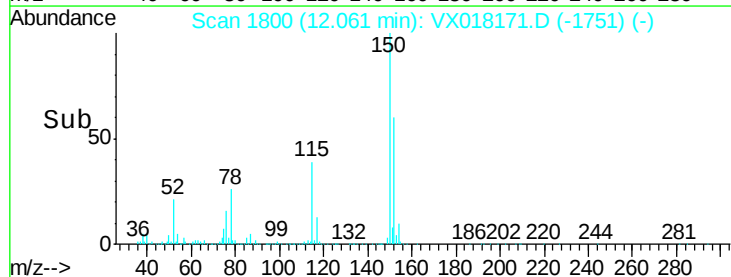
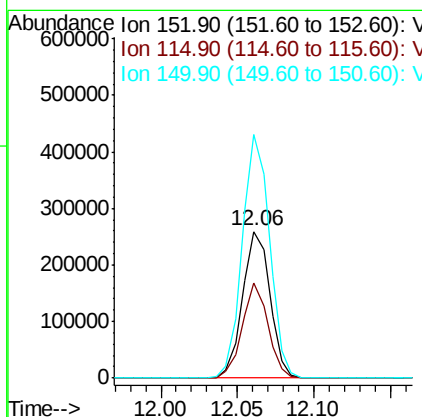
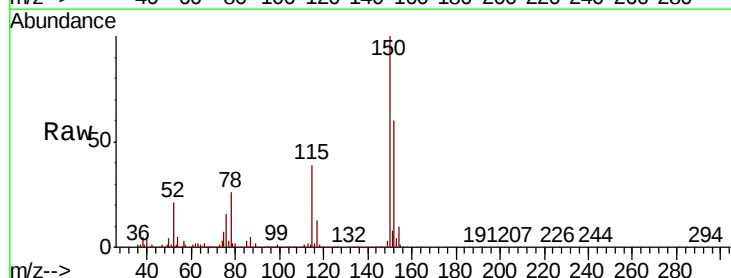
Instrument :
MSVOA_X
ClientSampleId :
WC

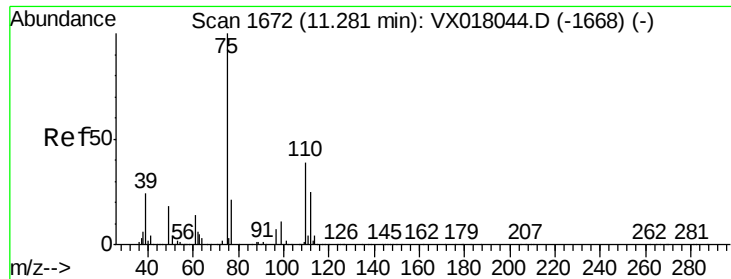
Tot Ion:117 Resp: 707369
Ion Ratio Lower Upper
117 100
82 55.6 44.2 66.2
119 33.1 25.7 38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018171.D
Acq: 01 Sep 2020 01:24

Tgt Ion:152 Resp: 324069
Ion Ratio Lower Upper
152 100
115 61.0 41.5 124.5
150 164.5 0.0 343.8





#76

1,2,3-Trichloropropane

Concen: 23.978 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

Instrument :

MSVOA_X

ClientSampleId :

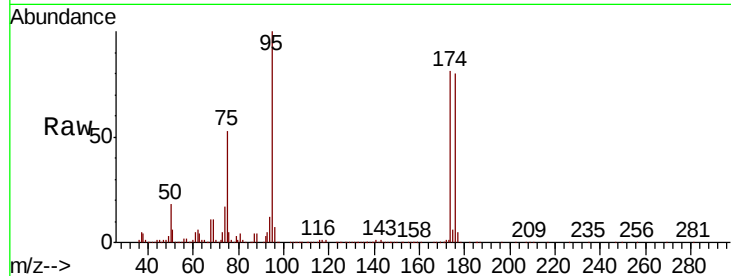
WC

Tot Ion: 75 Resp: 172856

Ion Ratio Lower Upper

75 100

77 1.4 20.8 62.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.12

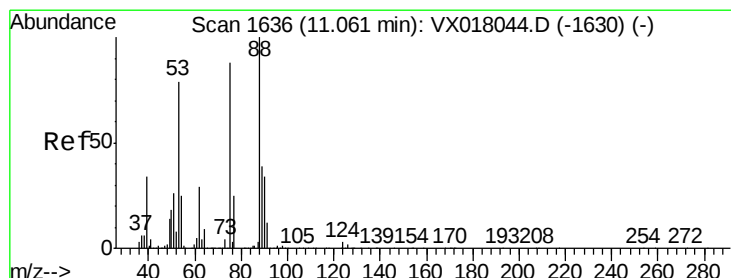
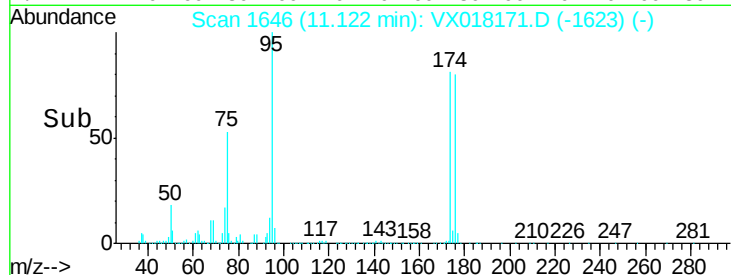
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 64.760 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018171.D

Acq: 01 Sep 2020 01:24

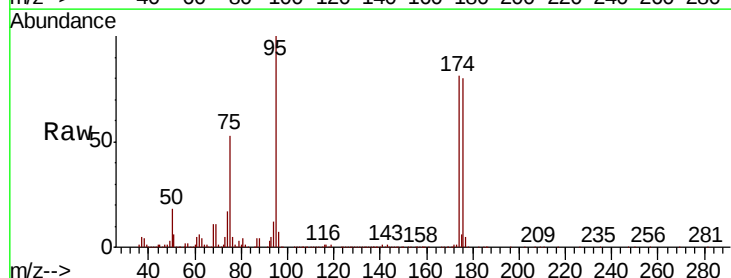
Tgt Ion: 75 Resp: 172856

Ion Ratio Lower Upper

75 100

53 0.5 74.7 112.1#

89 0.0 36.6 54.8#



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

11.12

150000

100000

50000

0

Time-->

