

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX090820\
 Data File : VX018303.D
 Acq On : 09 Sep 2020 03:02
 Operator : JC/SP
 Sample : L3915-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 WC-PM-A1-0-4-D

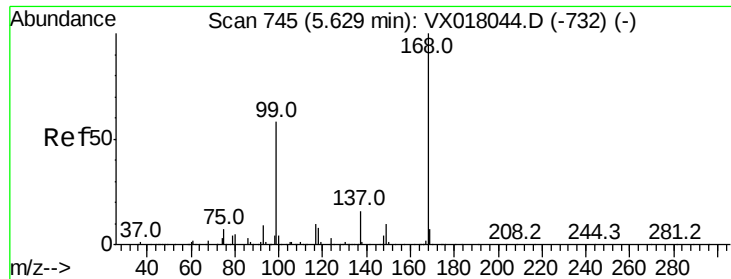
Quant Time: Sep 09 03:47:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082120W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 21 03:03:56 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.64	168	422374	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	696924	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	682786	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	330566	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.04	65	312876	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	
35) Dibromofluoromethane	5.46	113	243410	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
50) Toluene-d8	8.70	98	875661	49.53	ug/l	0.00
Spiked Amount			Recovery	=	99.06%	
62) 4-Bromofluorobenzene	11.12	95	324688	46.68	ug/l	0.00
Spiked Amount			Recovery	=	93.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.64	94	1156	0.444	ug/l #	77
10) Methyl Iodide	2.50	142	201	5.329	ug/l #	33
11) Tert butyl alcohol	3.01	59	1933	1.695	ug/l #	81
13) Acrolein	2.29	56	451	0.954	ug/l #	79
16) Acetone	2.42	43	62851	27.508	ug/l	97
18) Methyl Acetate	2.75	43	6336	1.149	ug/l #	80
20) Methylene Chloride	2.84	84	17645	2.671	ug/l	87
25) 2-Butanone	4.65	43	9594	2.555	ug/l #	90
29) Tetrahydrofuran	5.10	42	2126	0.889	ug/l #	81
36) 1,1-Dichloropropene	5.64	75	33222	5.168	ug/l #	53
38) Carbon Tetrachloride	5.64	117	47399	6.543	ug/l #	16
40) Benzene	6.11	78	5945	0.315	ug/l	92
43) Isopropyl Acetate	6.41	43	69821	5.790	ug/l	99
48) Methyl methacrylate	7.65	41	4741	0.790	ug/l #	16
49) 1,4-Dioxane	7.70	88	132	1.214	ug/l #	1
51) 4-Methyl-2-Pentanone	8.60	43	69721	9.360	ug/l #	48
54) cis-1,3-Dichloropropene	8.59	75	28347	3.378	ug/l #	68
59) 2-Hexanone	9.42	43	79826	14.094	ug/l #	25
76) 1,2,3-Trichloropropane	11.12	75	164518	22.373	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	164518	60.424	ug/l #	13
95) Naphthalene	13.82	128	4896	0.224	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018303.D

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MSVOA_X

ClientSampleId :

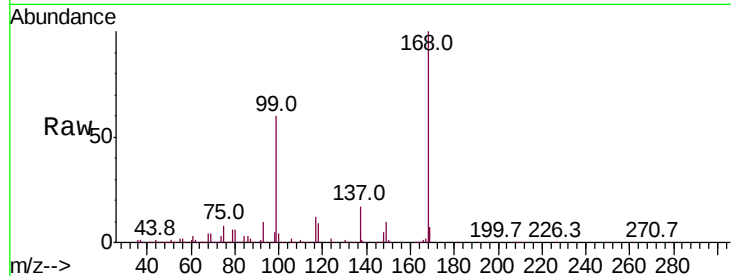
WC-PM-A1-0-4-D

Tot Ion:168 Resp: 422374

Ion Ratio Lower Upper

168 100

99 59.8 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

150000

100000

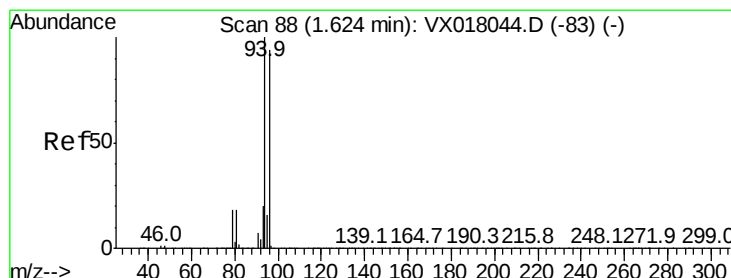
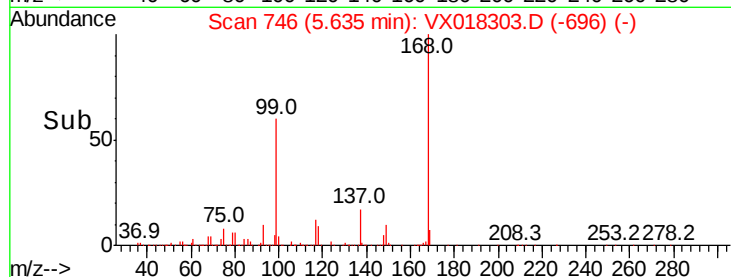
50000

0

5.64

5.50 5.60 5.70

Time-->



#5

Bromomethane

Concen: 0.444 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX018303.D

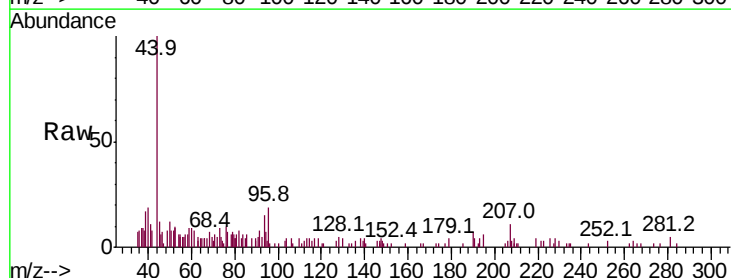
Acq: 09 Sep 2020 03:02

Tgt Ion: 94 Resp: 1156

Ion Ratio Lower Upper

94 100

96 71.1 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

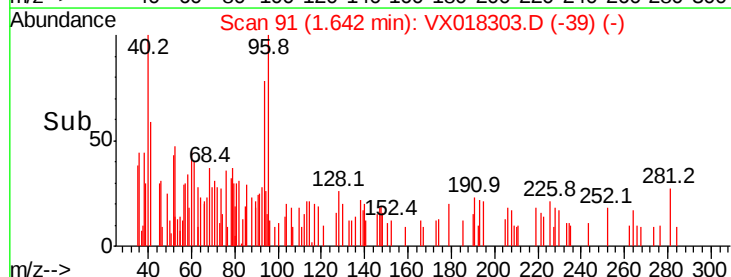
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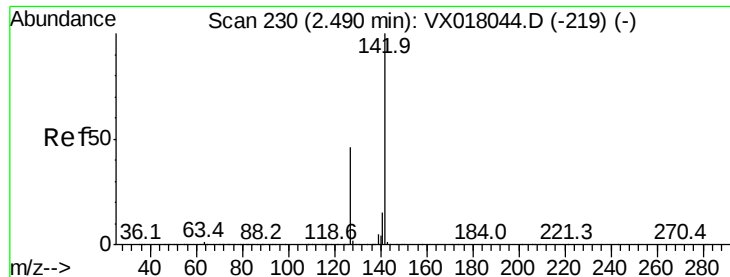
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1.64

1.60 1.65

Time-->

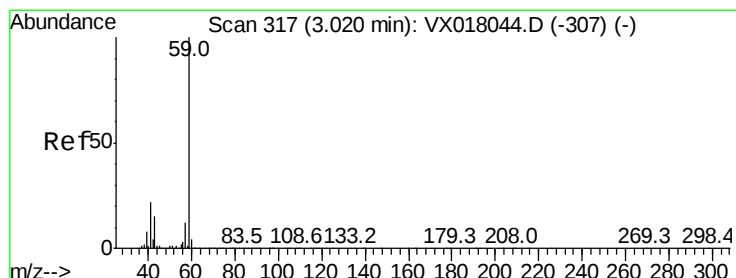
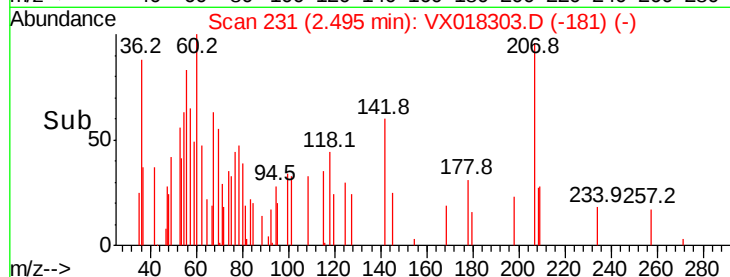
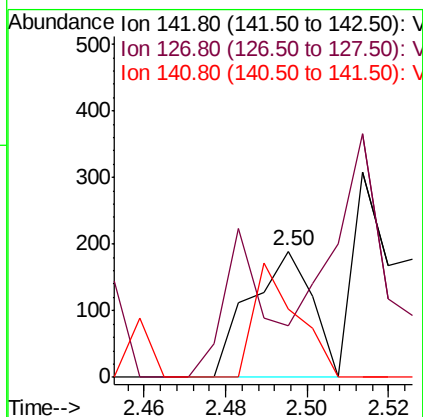
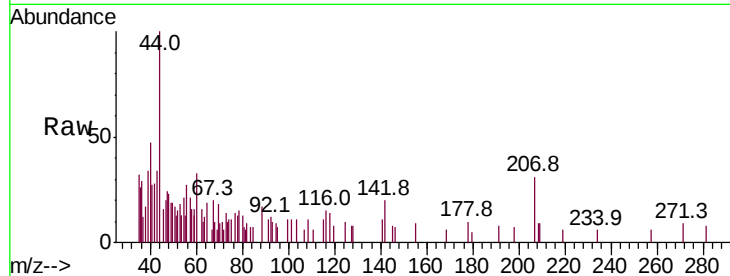




#10
Methvl Iodide
Concen: 5.329 ug/l
RT: 2.50 min Scan# 231
Delta R.T. 0.01 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

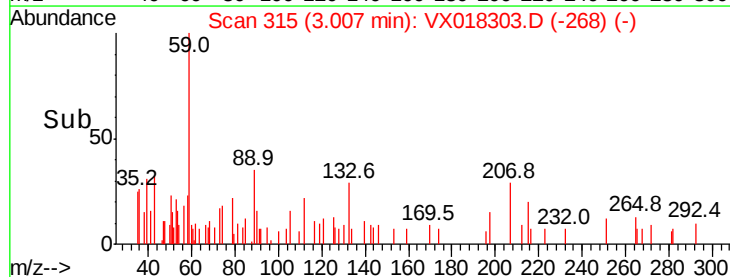
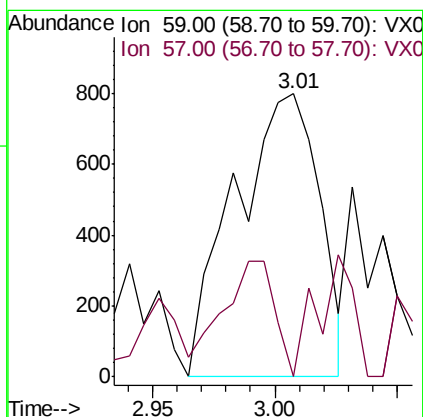
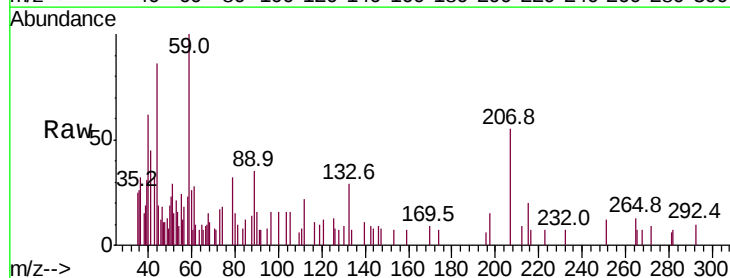
Instrument :
MSVOA_X
ClientSampleId :
WC-PM-A1-0-4-D

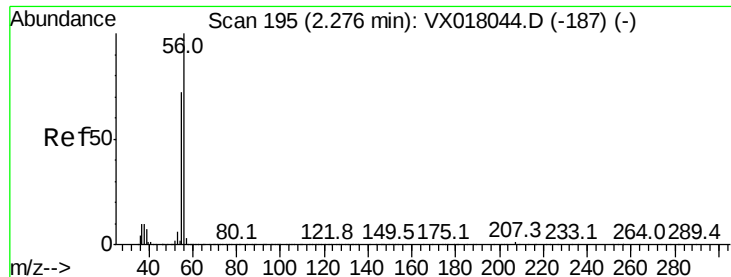
Tot Ion:142 Resp: 201
Ion Ratio Lower Upper
142 100
127 80.1 37.0 55.6#
141 63.2 11.5 17.3#



#11
Tert butyl alcohol
Concen: 1.695 ug/l
RT: 3.01 min Scan# 315
Delta R.T. -0.01 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

Tgt Ion: 59 Resp: 1933
Ion Ratio Lower Upper
59 100
57 18.2 8.9 13.3#





#13

Acrolein

Concen: 0.954 ug/l

RT: 2.29 min Scan# 198

Delta R.T. 0.02 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

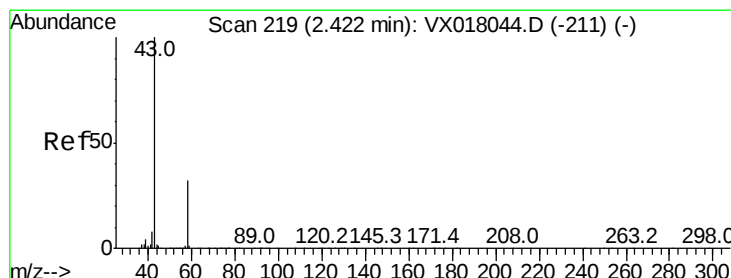
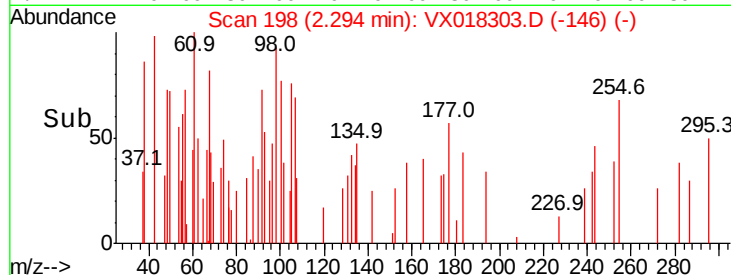
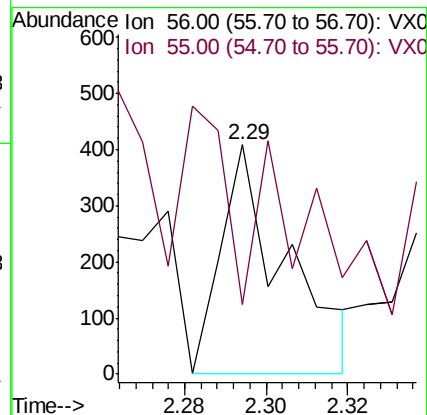
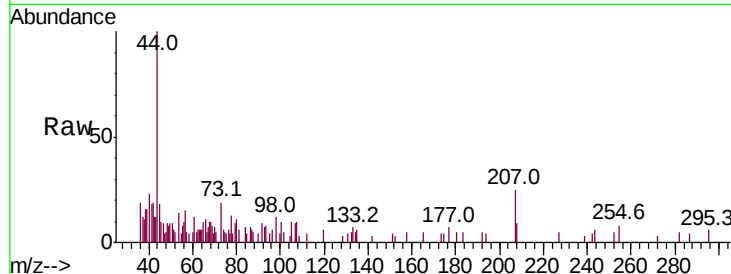
WC-PM-A1-0-4-D

Tot Ion: 56 Resp: 451

Ion Ratio Lower Upper

56 100

55 53.7 57.0 85.6#



#16

Acetone

Concen: 27.508 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018303.D

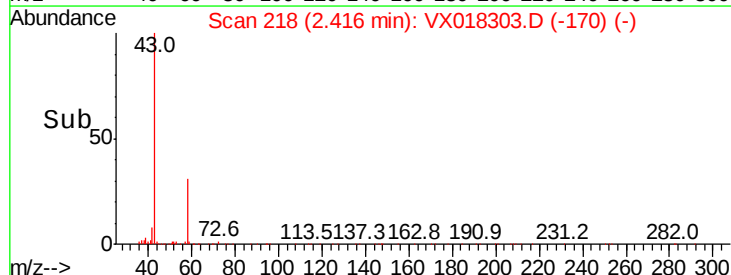
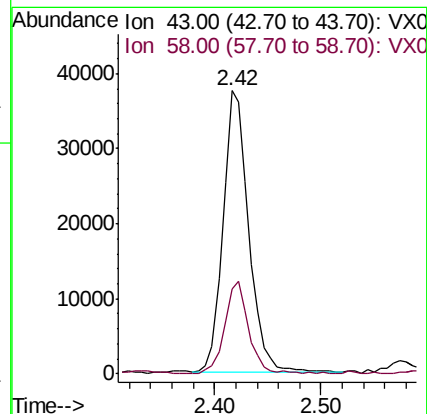
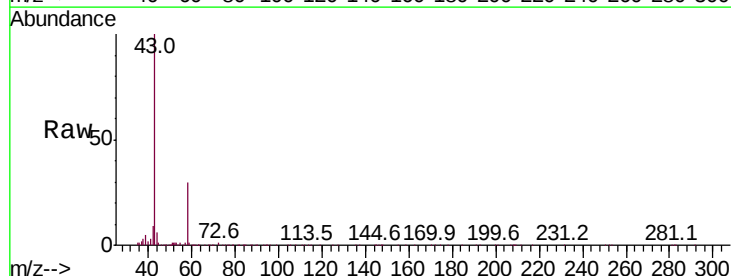
Acq: 09 Sep 2020 03:02

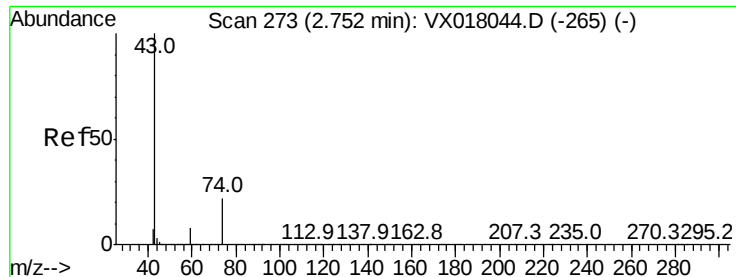
Tgt Ion: 43 Resp: 62851

Ion Ratio Lower Upper

43 100

58 30.2 25.5 38.3

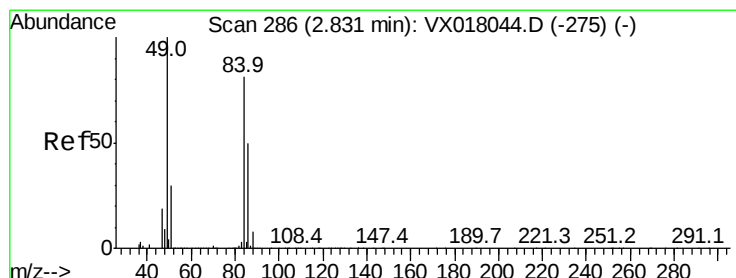
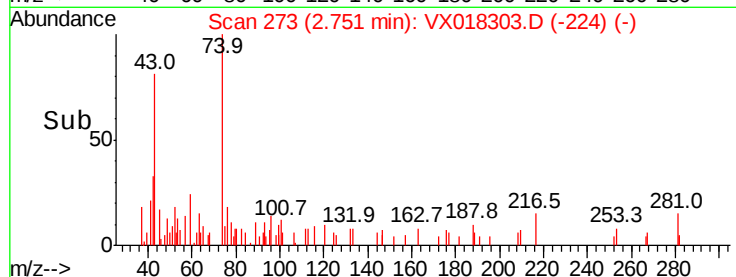
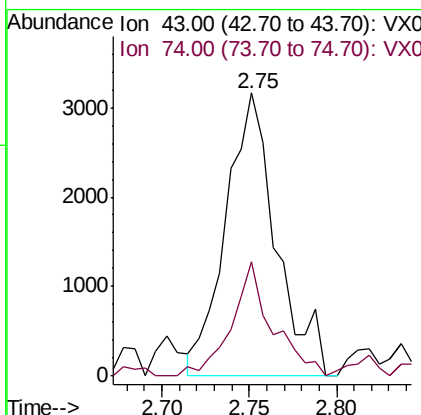
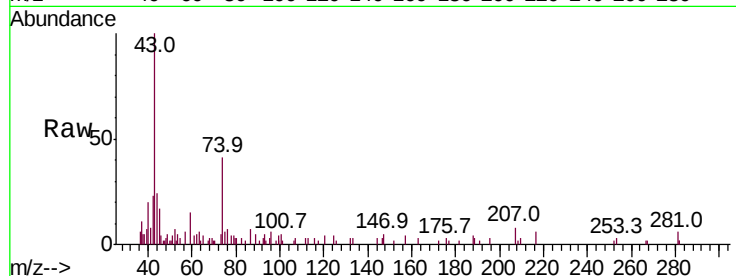




#18
Methvl Acetate
Concen: 1.149 ug/l
RT: 2.75 min Scan# 273
Delta R.T. -0.00 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

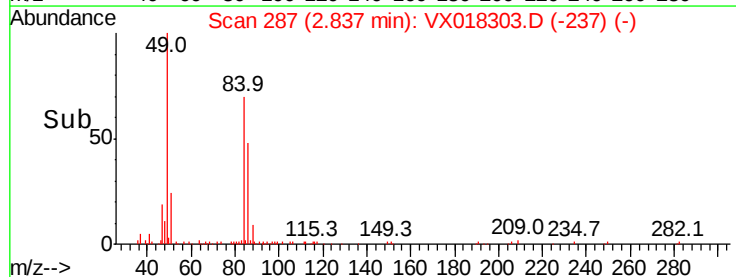
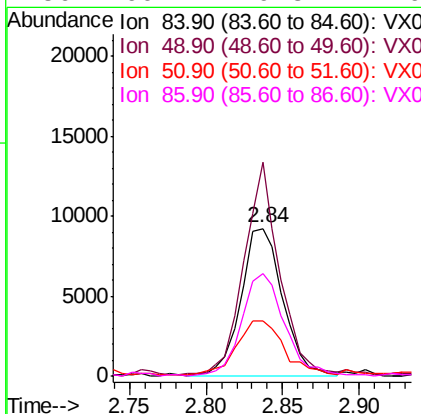
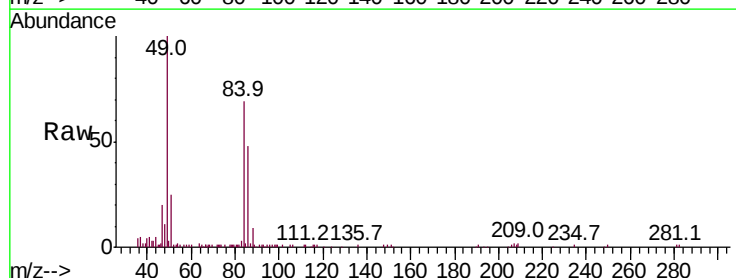
Instrument :
MSVOA_X
ClientSampleId :
WC-PM-A1-0-4-D

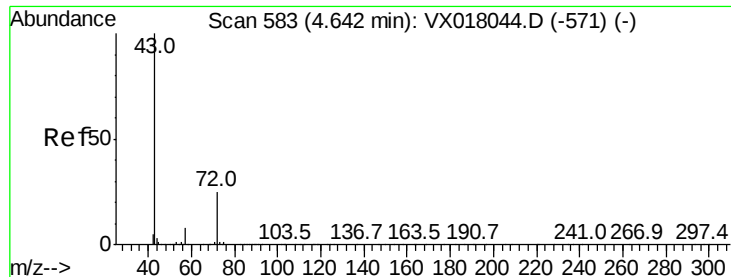
Tot Ion: 43 Resp: 6336
Ion Ratio Lower Upper
43 100
74 32.6 18.2 27.4#



#20
Methylene Chloride
Concen: 2.671 ug/l
RT: 2.84 min Scan# 287
Delta R.T. 0.01 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

Tgt Ion: 84 Resp: 17645
Ion Ratio Lower Upper
84 100
49 143.5 98.6 148.0
51 35.0 29.6 44.4
86 69.7 49.8 74.6





#25

2-Butanone

Concen: 2.555 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.01 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

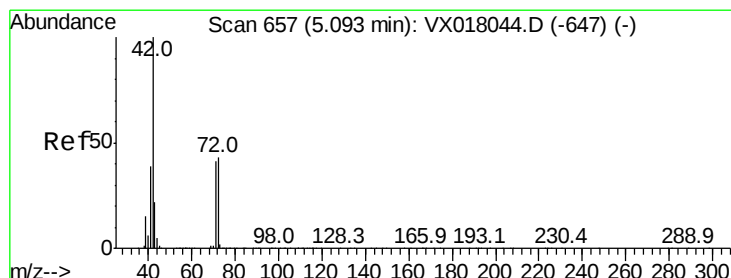
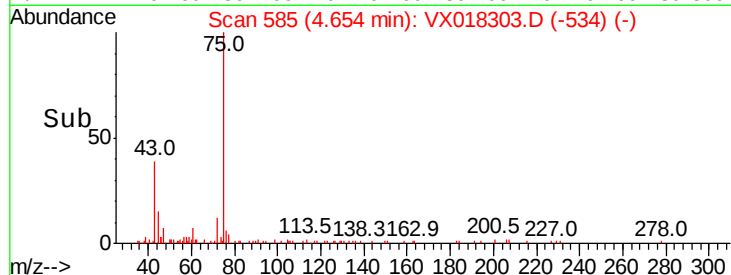
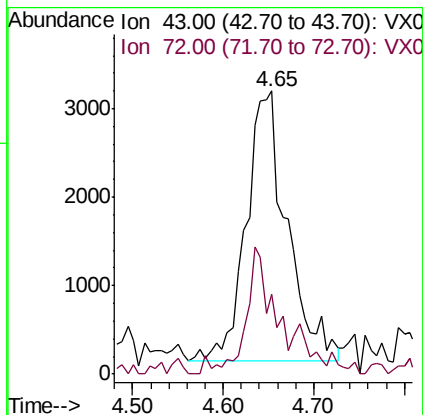
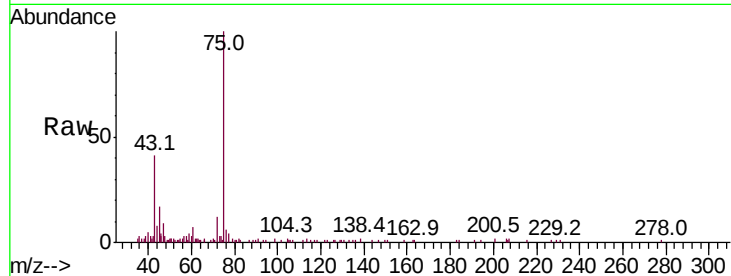
WC-PM-A1-0-4-D

Tot Ion: 43 Resp: 9594

Ion Ratio Lower Upper

43 100

72 29.7 19.8 29.6#



#29

Tetrahydrofuran

Concen: 0.889 ug/l

RT: 5.10 min Scan# 659

Delta R.T. 0.01 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

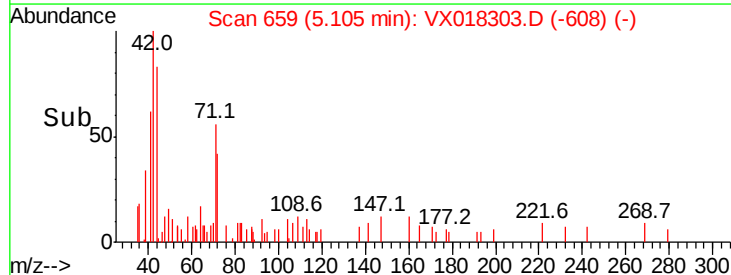
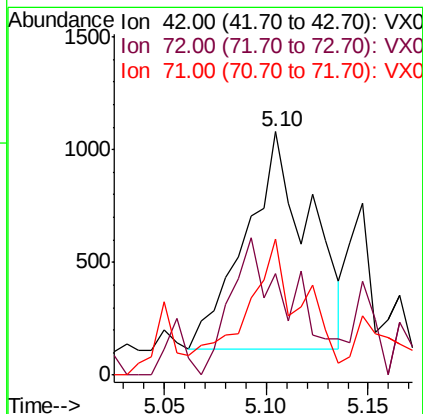
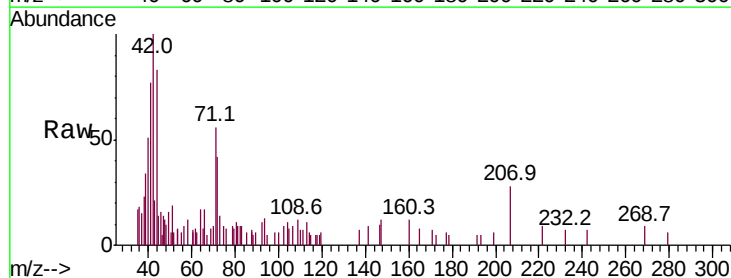
Tgt Ion: 42 Resp: 2126

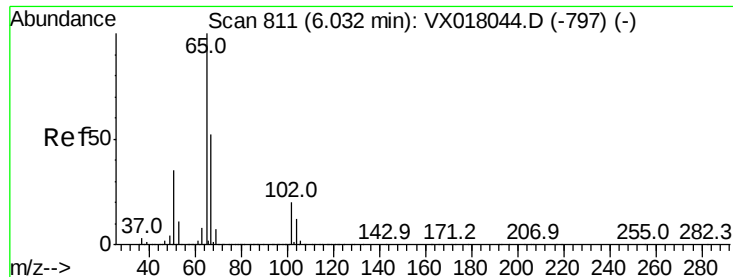
Ion Ratio Lower Upper

42 100

72 56.9 34.2 51.4#

71 49.2 32.1 48.1#





#33

1,2-Dichloroethane-d4

Concen: 53.359 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

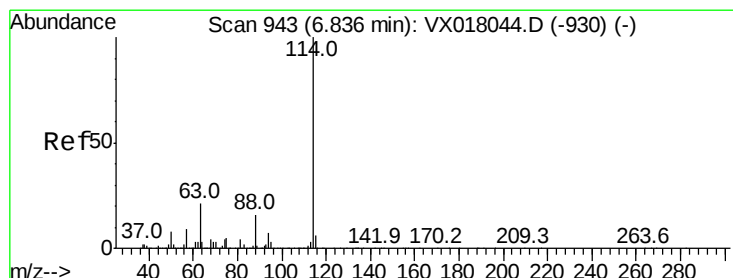
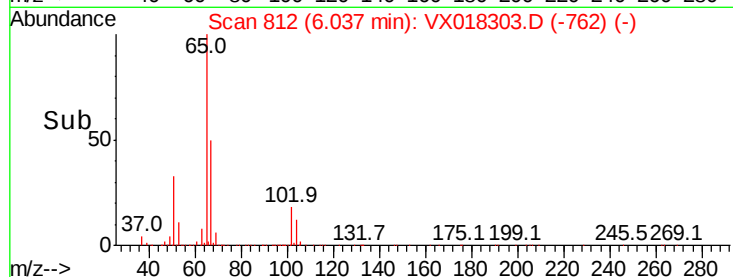
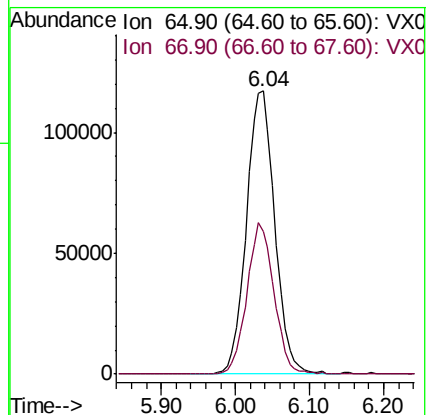
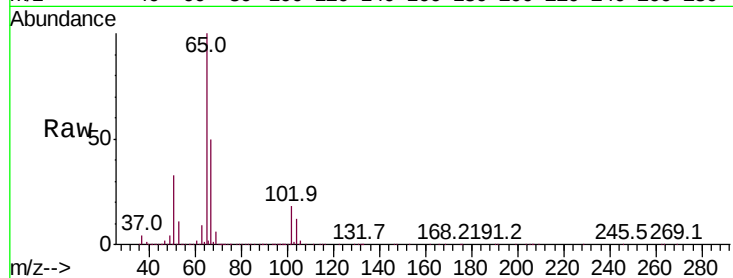
WC-PM-A1-0-4-D

Tot Ion: 65 Resp: 312876

Ion Ratio Lower Upper

65 100

67 51.0 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.83 min Scan# 942

Delta R.T. -0.01 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

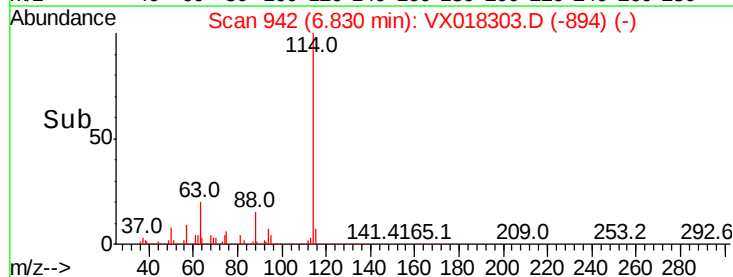
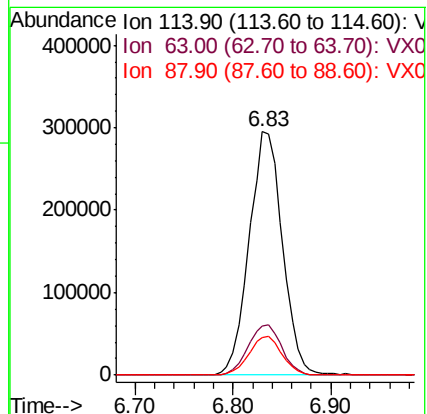
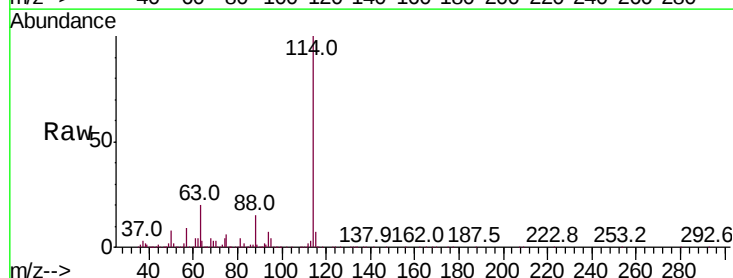
Tgt Ion: 114 Resp: 696924

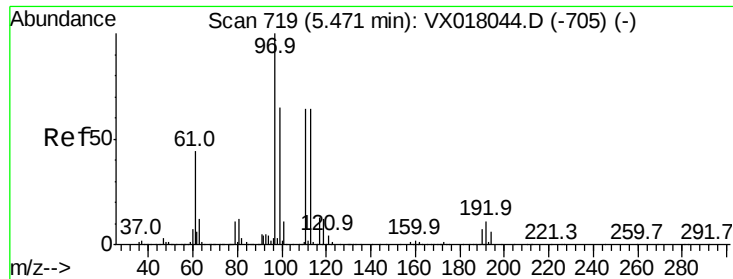
Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 15.3 0.0 31.8

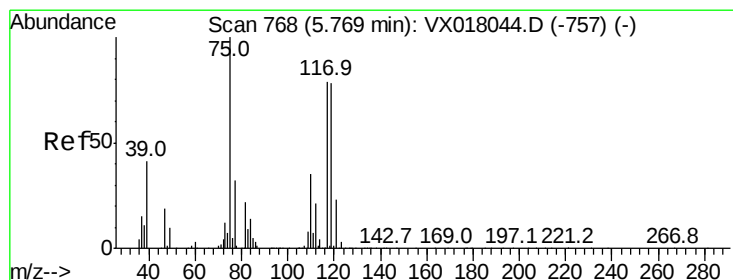
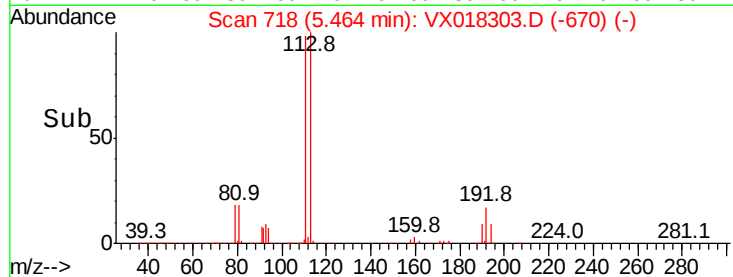
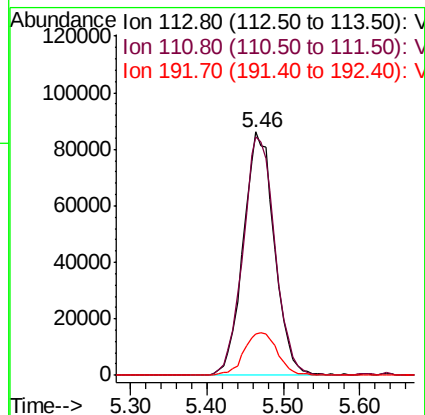
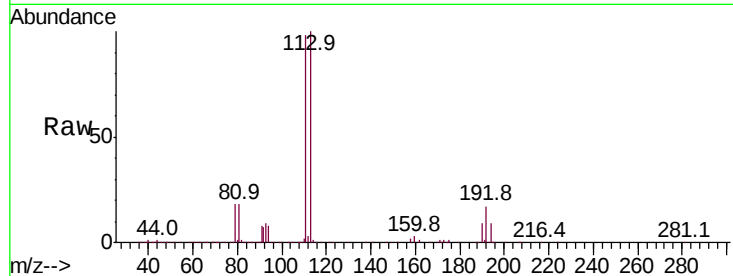




#35
Dibromofluoromethane
Concen: 51.283 ug/l
RT: 5.46 min Scan# 718
Delta R.T. -0.01 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

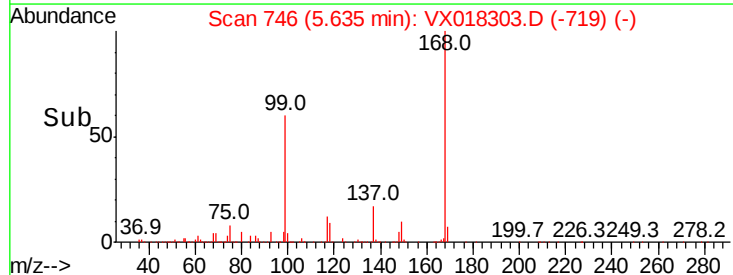
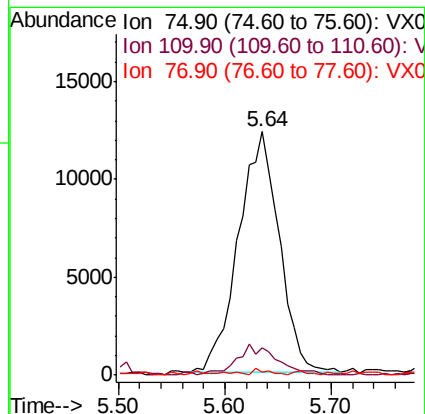
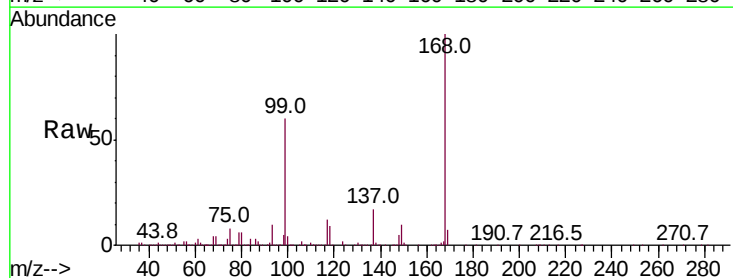
Instrument :
MSVOA_X
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WC-PM-A1-0-4-D

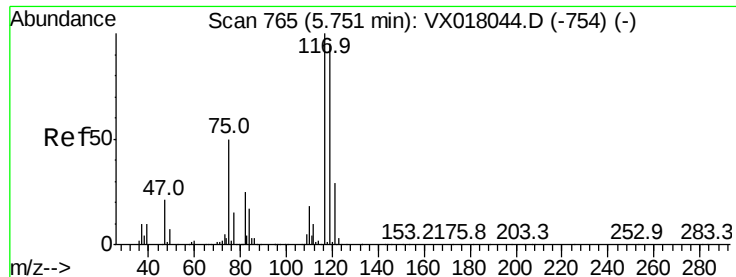
Tot Ion:113 Resp: 243410
Ion Ratio Lower Upper
113 100
111 100.5 81.6 122.4
192 18.9 15.8 23.8



#36
1,1-Dichloropropene
Concen: 5.168 ug/l
RT: 5.64 min Scan# 746
Delta R.T. -0.13 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

Tgt Ion: 75 Resp: 33222
Ion Ratio Lower Upper
75 100
110 12.4 18.0 54.0#
77 1.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 6.543 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

WC-PM-A1-0-4-D

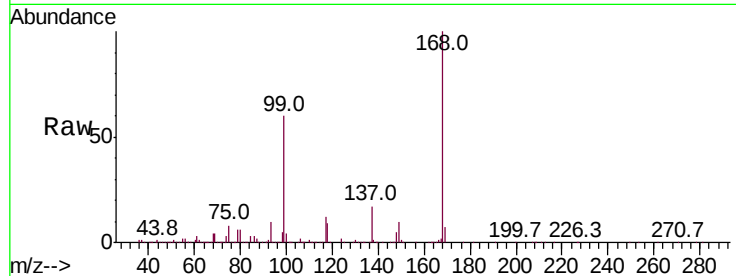
Tot Ion:117 Resp: 47399

Ion Ratio Lower Upper

117 100

119 3.9 75.8 113.6#

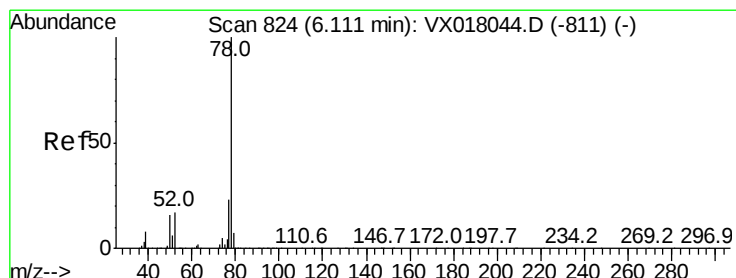
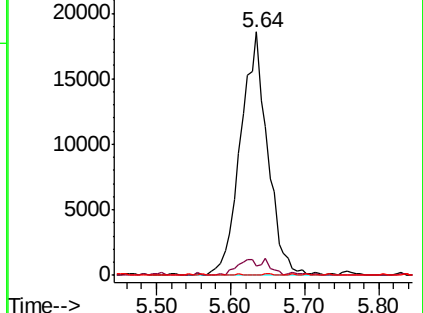
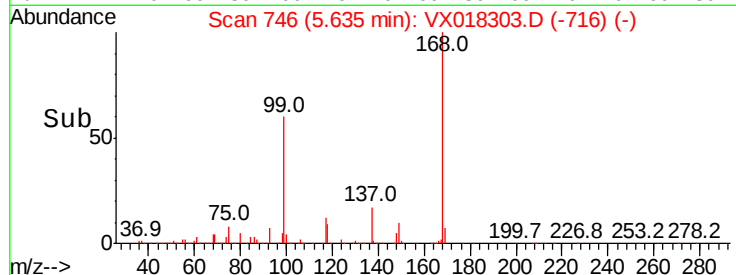
121 0.0 23.4 35.0#



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: 0.315 ug/l

RT: 6.11 min Scan# 824

Delta R.T. -0.00 min

Lab File: VX018303.D

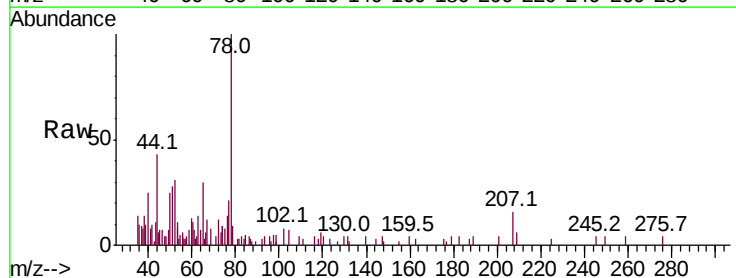
Acq: 09 Sep 2020 03:02

Tgt Ion: 78 Resp: 5945

Ion Ratio Lower Upper

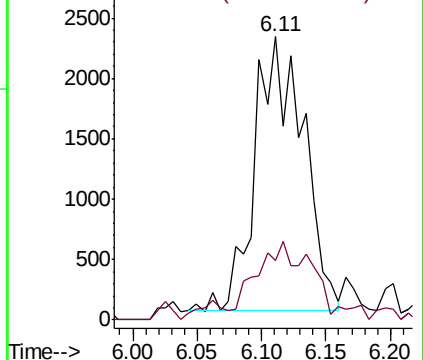
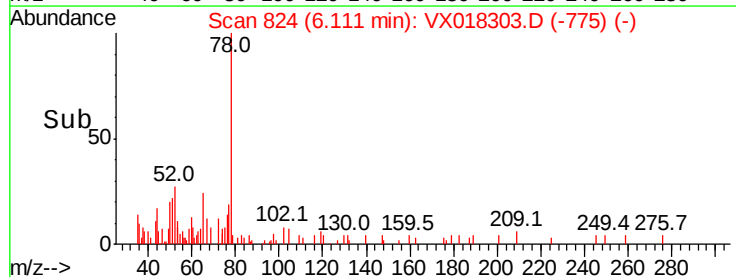
78 100

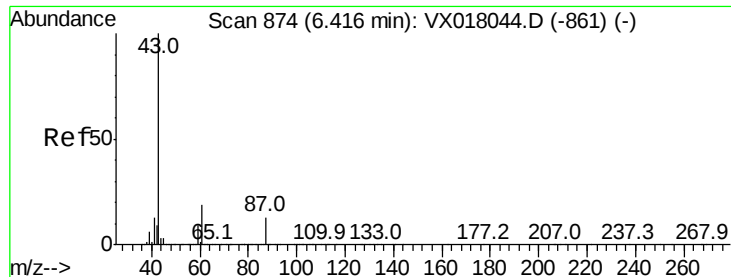
77 18.9 18.2 27.2



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





#43

Isopropyl Acetate

Concen: 5.790 ug/l

RT: 6.41 min Scan# 873

Delta R.T. -0.01 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

WC-PM-A1-0-4-D

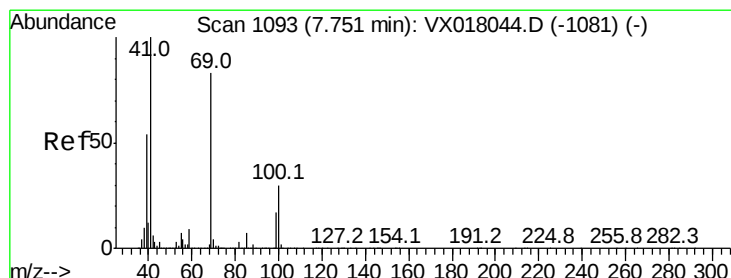
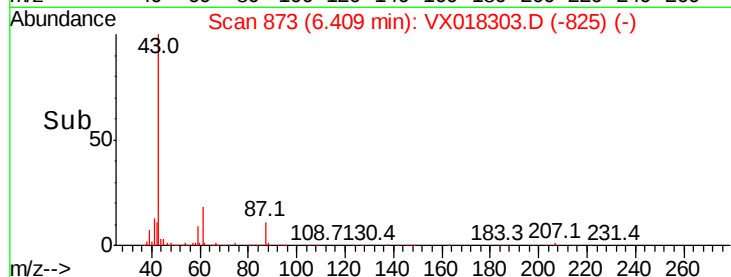
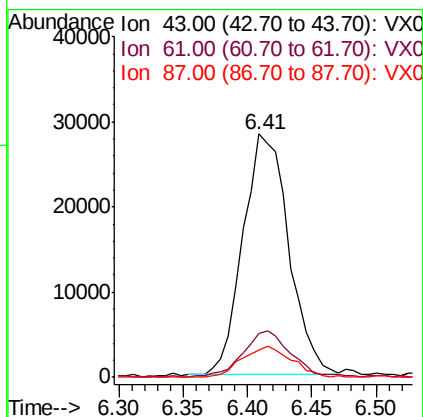
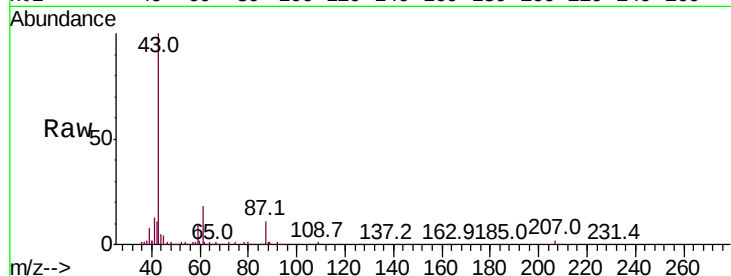
Tot Ion: 43 Resp: 69821

Ion Ratio Lower Upper

43 100

61 19.5 15.7 23.5

87 14.3 10.3 15.5



#48

Methyl methacrylate

Concen: 0.790 ug/l

RT: 7.65 min Scan# 1077

Delta R.T. -0.10 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

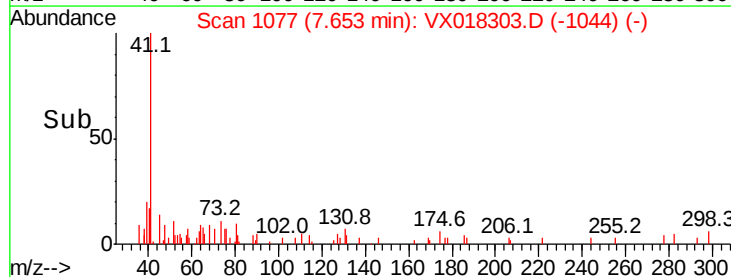
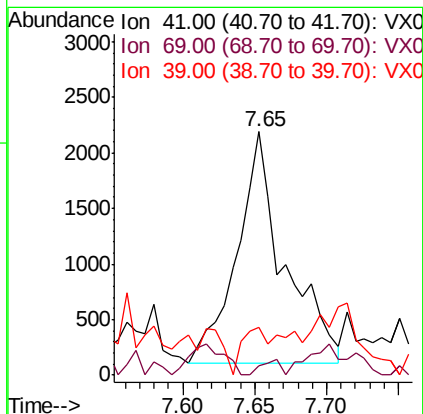
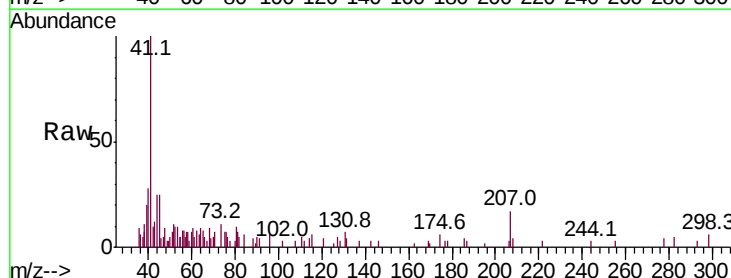
Tgt Ion: 41 Resp: 4741

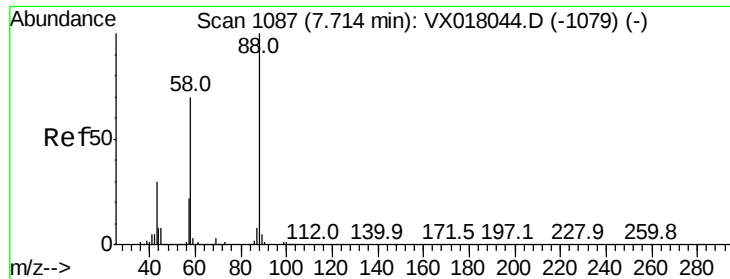
Ion Ratio Lower Upper

41 100

69 2.5 65.5 98.3#

39 0.0 44.5 66.7#





#49

1,4-Dioxane

Concen: 1.214 ug/l

RT: 7.70 min Scan# 1084

Delta R.T. -0.02 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

WC-PM-A1-0-4-D

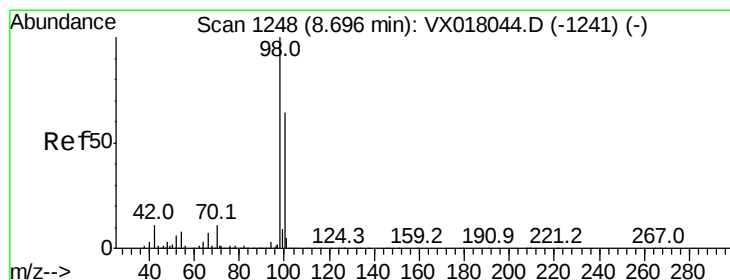
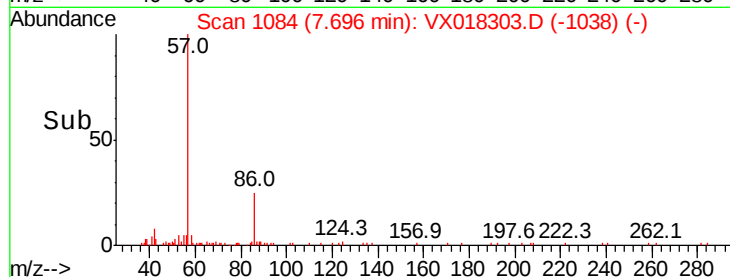
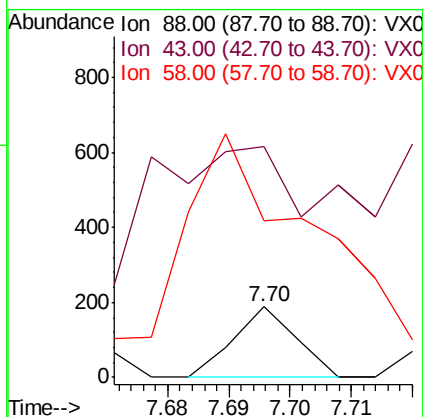
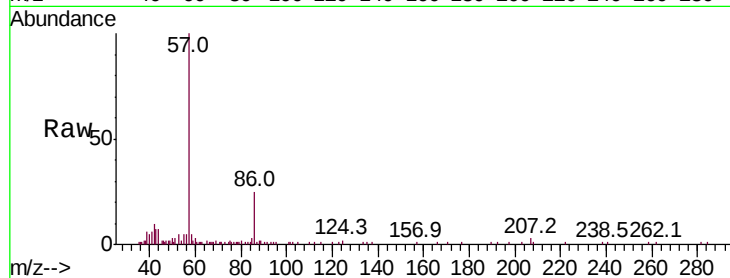
Tot Ion: 88 Resp: 132

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

58 686.4 56.4 84.6#



#50

Toluene-d8

Concen: 49.533 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018303.D

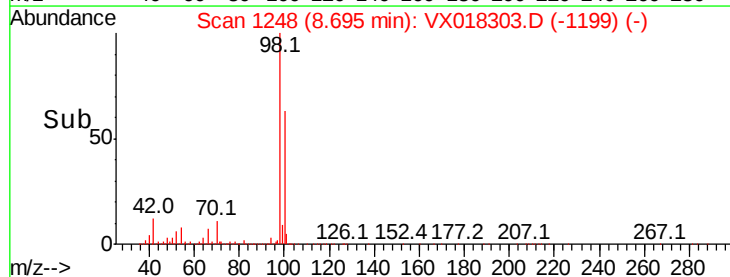
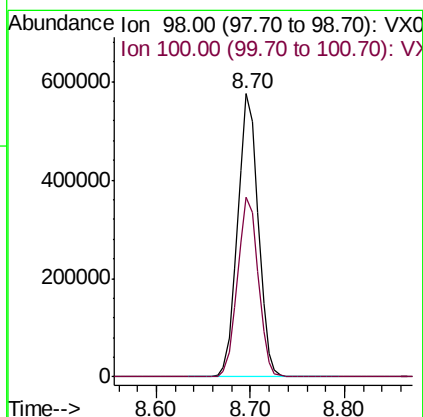
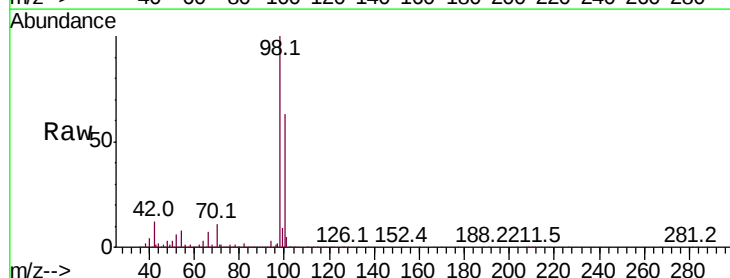
Acq: 09 Sep 2020 03:02

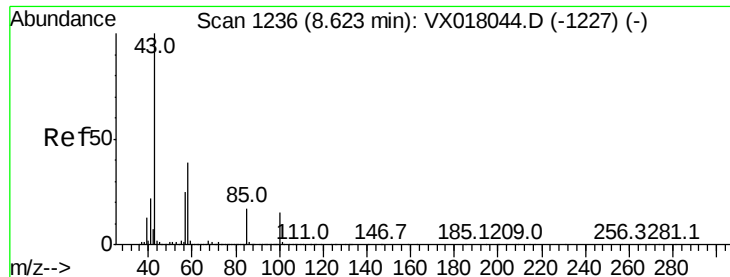
Tgt Ion: 98 Resp: 875661

Ion Ratio Lower Upper

98 100

100 63.9 52.2 78.4





#51

4-Methyl-2-Pentanone

Concen: 9.360 ug/l

RT: 8.60 min Scan# 1232

Delta R.T. -0.02 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

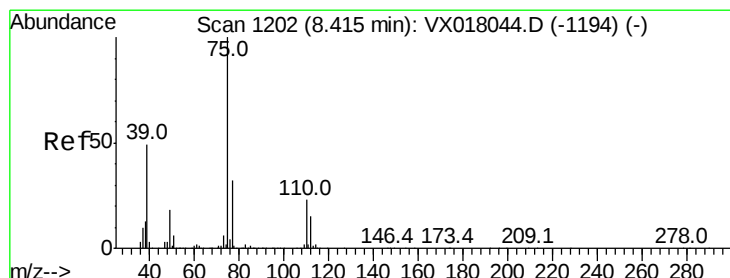
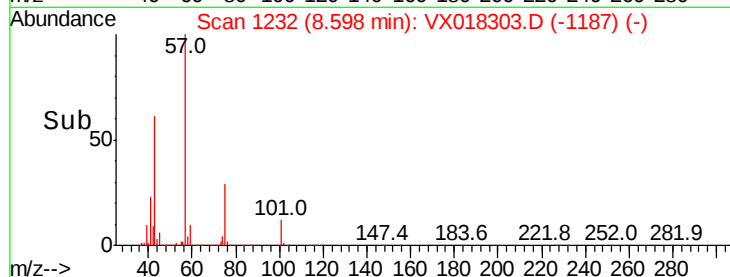
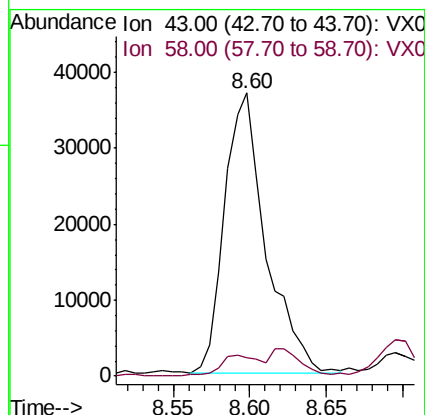
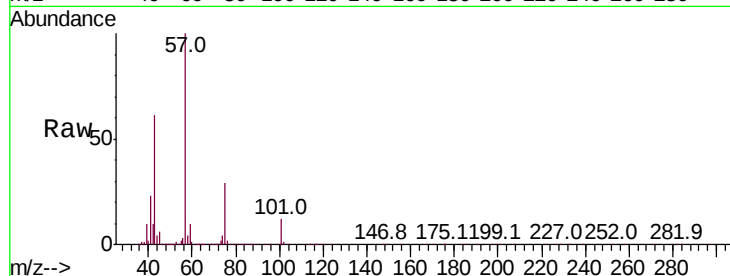
WC-PM-A1-0-4-D

Tot Ion: 43 Resp: 69721

Ion Ratio Lower Upper

43 100

58 6.9 30.7 46.1#



#54

cis-1,3-Dichloropropene

Concen: 3.378 ug/l

RT: 8.59 min Scan# 1231

Delta R.T. 0.18 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

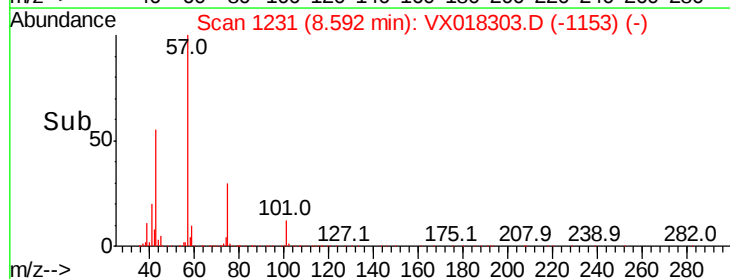
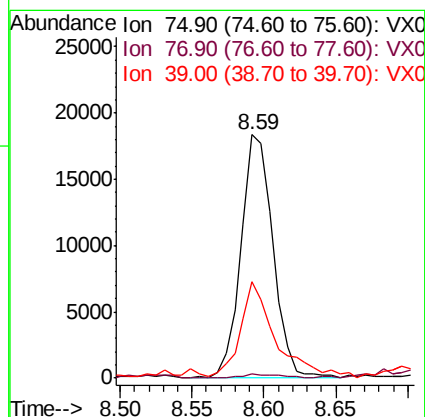
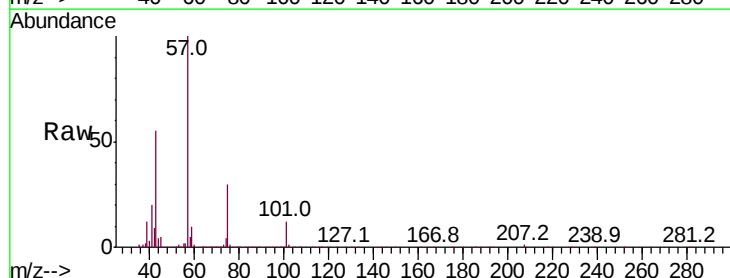
Tgt Ion: 75 Resp: 28347

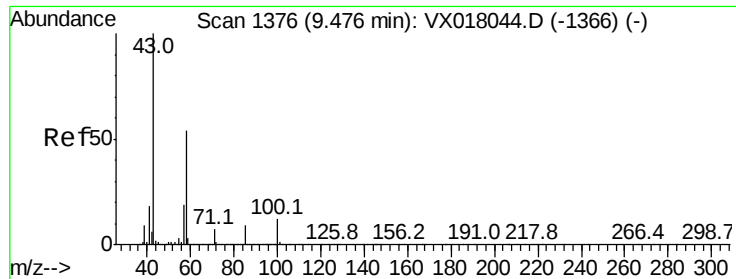
Ion Ratio Lower Upper

75 100

77 1.2 25.8 38.8#

39 37.7 38.8 58.2#

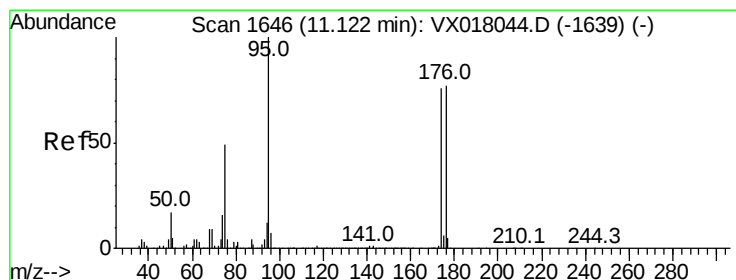
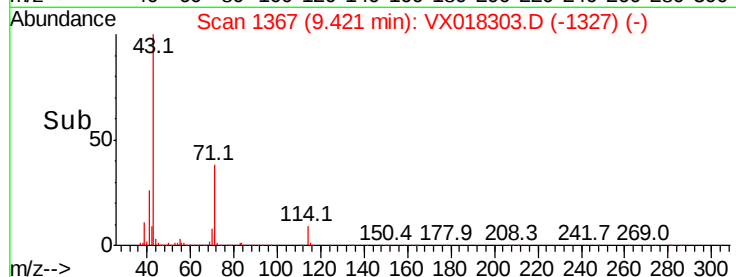
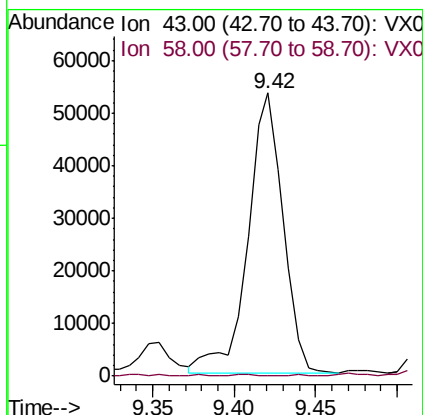
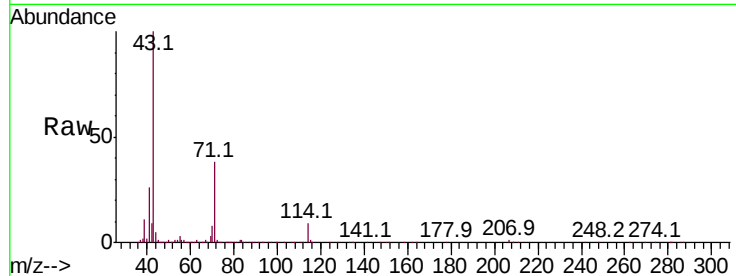




#59
2-Hexanone
Concen: 14.094 ug/l
RT: 9.42 min Scan# 1367
Delta R.T. -0.06 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

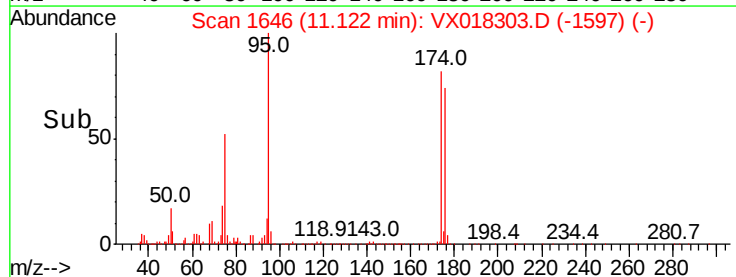
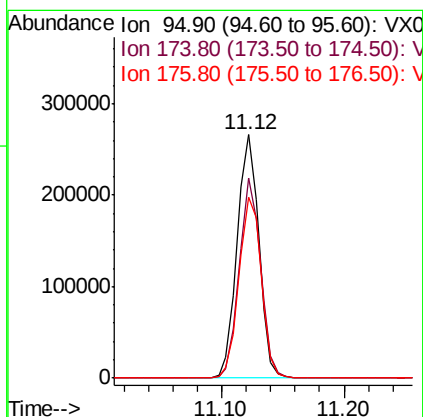
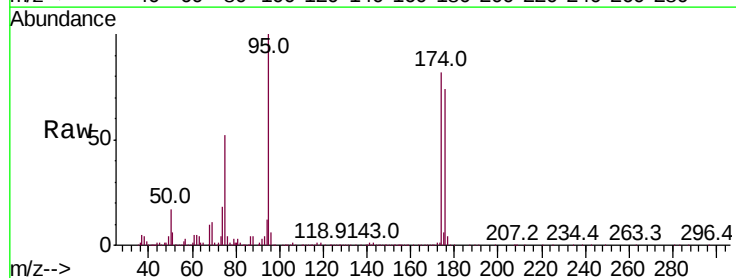
Instrument :
MSVOA_X
ClientSampleId :
WC-PM-A1-0-4-D

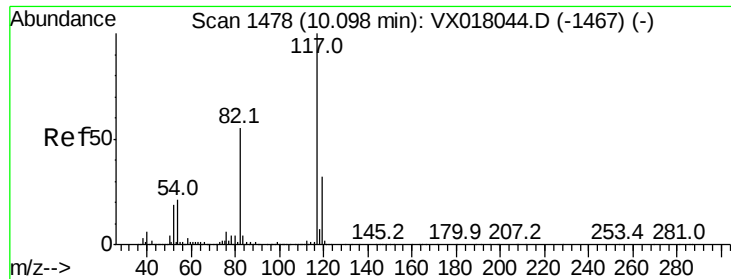
Tot Ion: 43 Resp: 79826
Ion Ratio Lower Upper
43 100
58 0.0 26.6 79.7#



#62
4-Bromofluorobenzene
Concen: 46.682 ug/l
RT: 11.12 min Scan# 1646
Delta R.T. -0.00 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

Tgt Ion: 95 Resp: 324688
Ion Ratio Lower Upper
95 100
174 80.7 0.0 160.2
176 76.3 0.0 155.8

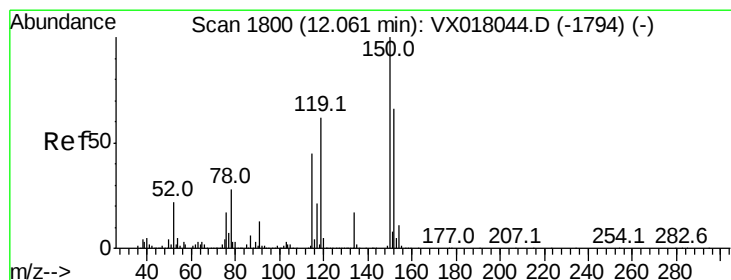
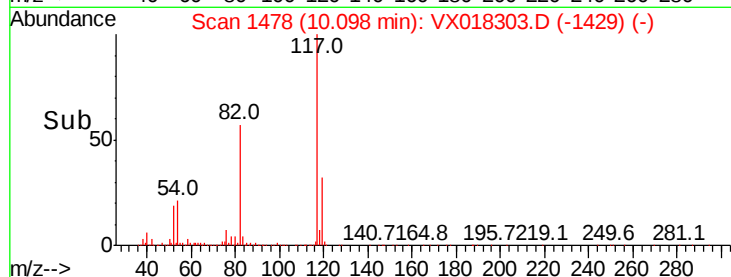
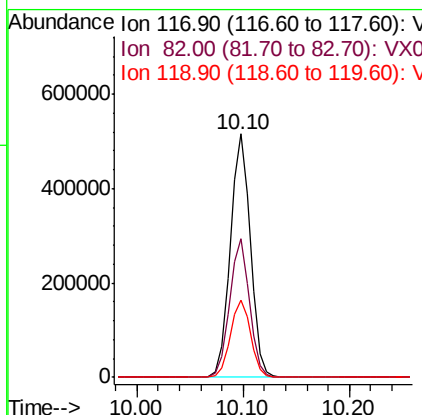
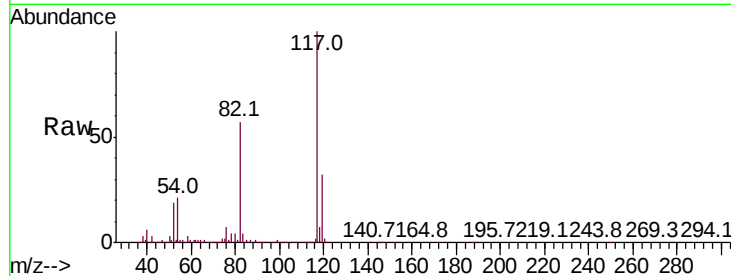




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

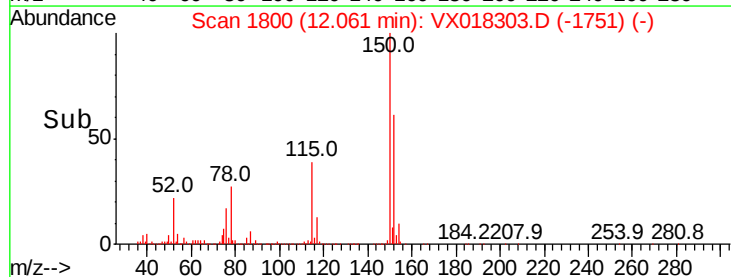
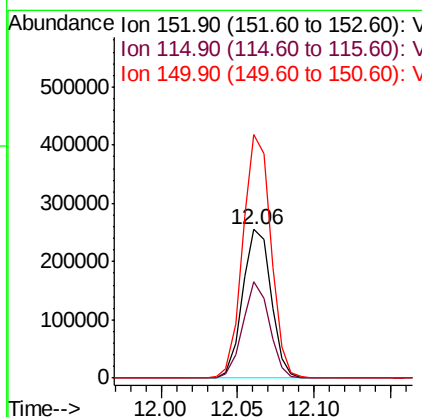
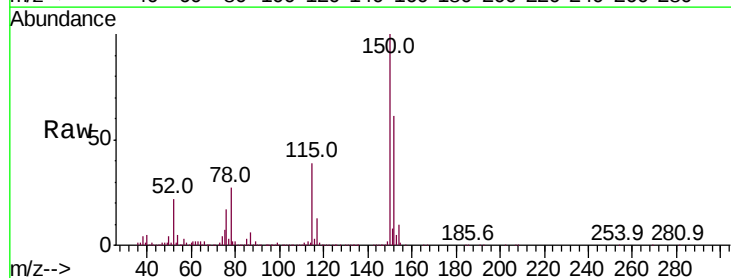
Instrument :
MSVOA_X
ClientSampleId :
WC-PM-A1-0-4-D

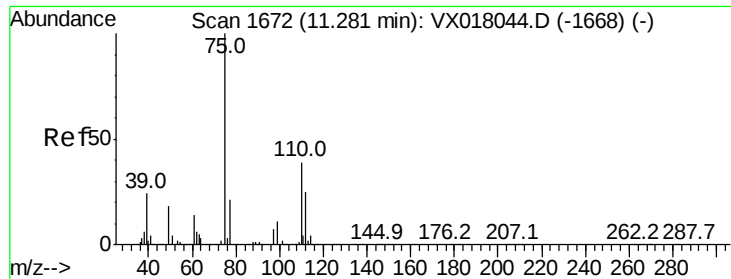
Tot Ion	Ratio	Lower	Upper
117	100		
82	56.7	44.2	66.2
119	31.8	25.7	38.5



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018303.D
Acq: 09 Sep 2020 03:02

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.7	41.5	124.5
150	160.3	0.0	343.8





#76

1,2,3-Trichloropropane

Concen: 22.373 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

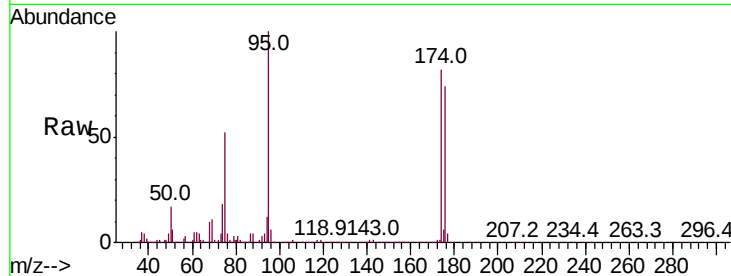
WC-PM-A1-0-4-D

Tot Ion: 75 Resp: 164518

Ion Ratio Lower Upper

75 100

77 1.5 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

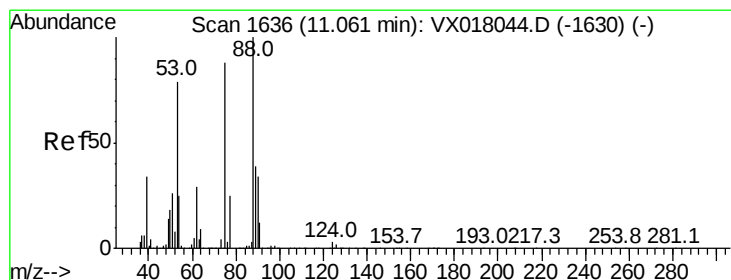
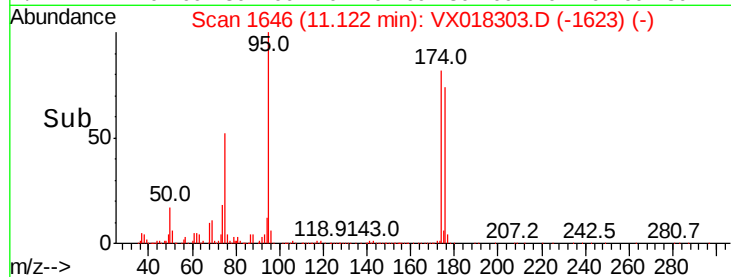
150000

100000

50000

0

Time--> 11.00 11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 60.424 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

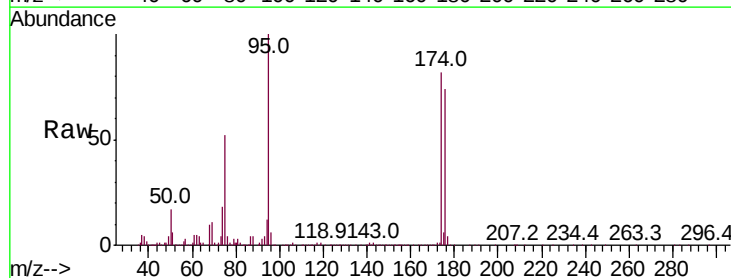
Tgt Ion: 75 Resp: 164518

Ion Ratio Lower Upper

75 100

53 0.8 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

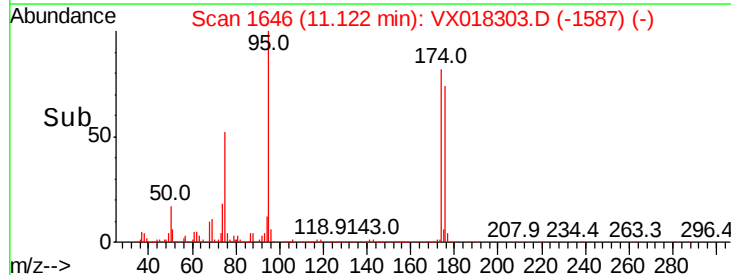
150000

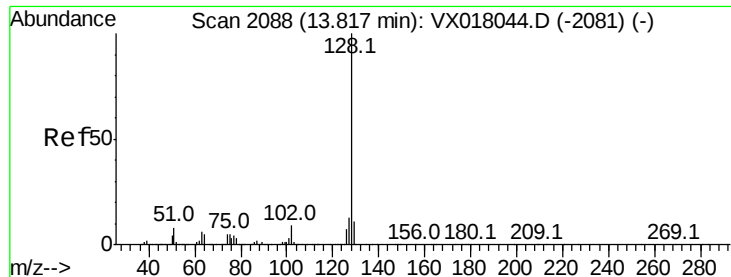
100000

50000

0

Time--> 11.00 11.10 11.20





#95

Naphthalene

Concen: 0.224 ug/l

RT: 13.82 min Scan# 2088

Delta R.T. -0.00 min

Lab File: VX018303.D

Acq: 09 Sep 2020 03:02

Instrument :

MSVOA_X

ClientSampleId :

WC-PM-A1-0-4-D

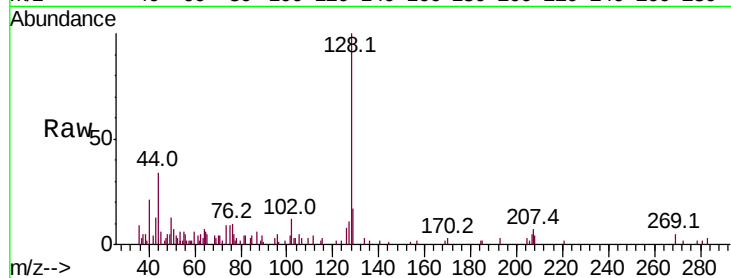
Tot Ion:128 Resp: 4896

Ion Ratio Lower Upper

128 100

127 14.5 10.2 15.2

129 11.3 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

