

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092420\
 Data File : VX018562.D
 Acq On : 24 Sep 2020 11:25
 Operator : JC/SP
 Sample : L4083-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20200917

Quant Time: Sep 25 01:03:55 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 17 12:17:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	479683	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	754781	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	728579	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	353761	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	332059	48.93	ug/l	0.00
Spiked Amount			Recovery	=	97.86%	
35) Dibromofluoromethane	5.47	113	258708	49.58	ug/l	0.00
Spiked Amount			Recovery	=	99.16%	
50) Toluene-d8	8.70	98	908854	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	
62) 4-Bromofluorobenzene	11.12	95	351016	46.55	ug/l	0.00
Spiked Amount			Recovery	=	93.10%	

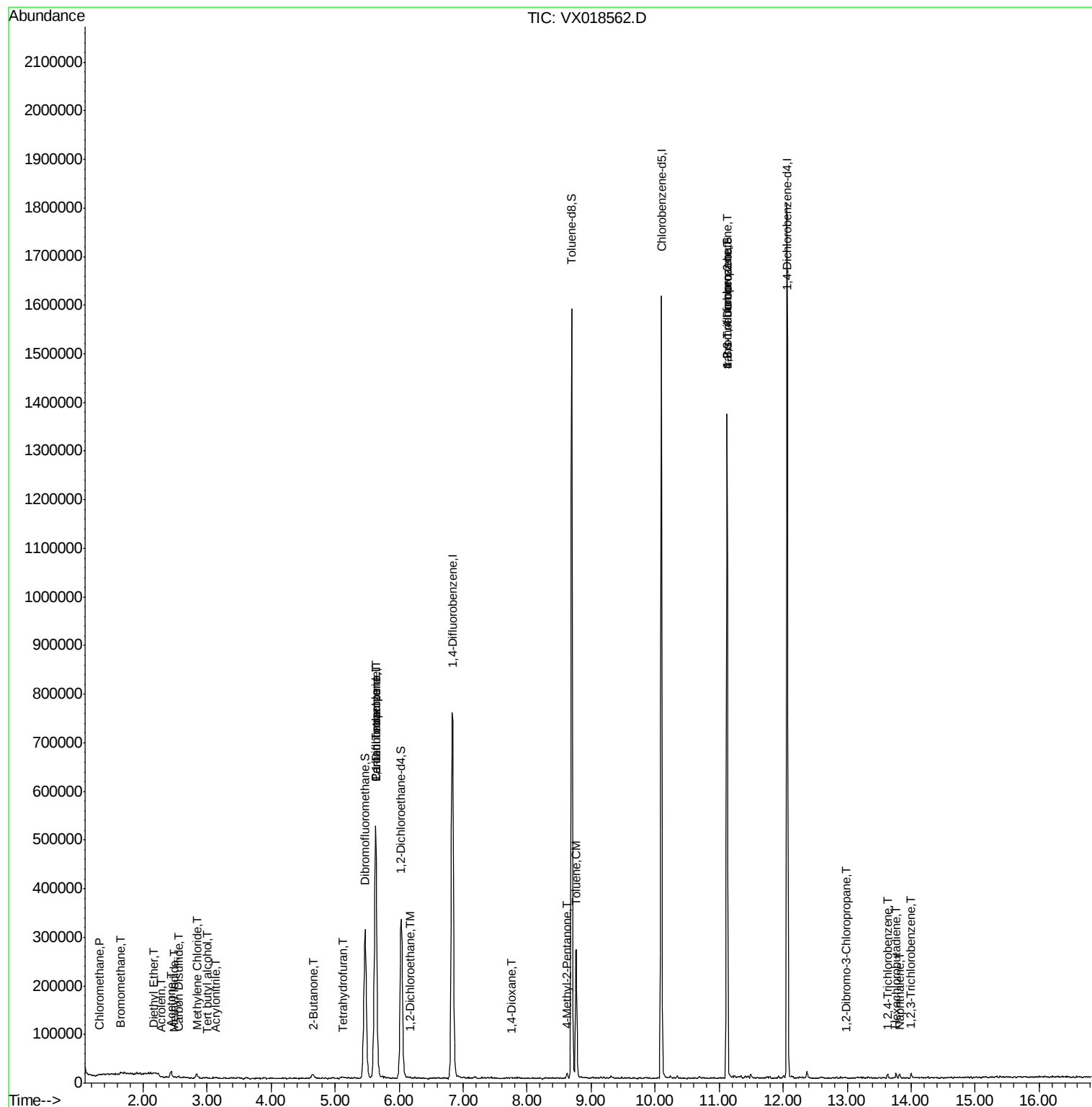
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.31	50	1111	0.209	ug/l #	42
5) Bromomethane	1.65	94	1092	0.316	ug/l	99
8) Diethyl Ether	2.17	74	954	0.318	ug/l	75
10) Methyl Iodide	2.50	142	1696	5.183	ug/l #	46
11) Tert butyl alcohol	3.00	59	567	0.480	ug/l #	1
13) Acrolein	2.28	56	285	0.381	ug/l #	1
15) Acrylonitrile	3.14	53	1431	0.508	ug/l #	23
16) Acetone	2.43	43	19523	7.523	ug/l	100
17) Carbon Disulfide	2.56	76	4028	0.290	ug/l #	76
20) Methylene Chloride	2.84	84	4300	0.751	ug/l #	83
25) 2-Butanone	4.65	43	7473	1.849	ug/l #	75
29) Tetrahydrofuran	5.11	42	1231	0.483	ug/l #	76
36) 1,1-Dichloropropene	5.63	75	37337	5.097	ug/l #	52
38) Carbon Tetrachloride	5.63	117	48906	6.028	ug/l #	19
42) 1,2-Dichloroethane	6.18	62	1734	0.212	ug/l	87
49) 1,4-Dioxane	7.76	88	117	1.121	ug/l #	1
51) 4-Methyl-2-Pentanone	8.62	43	6496	0.840	ug/l	98
52) Toluene	8.77	92	96295	7.289	ug/l	99
76) 1,2,3-Trichloropropane	11.12	75	177726	23.907	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.12	75	177726	61.261	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	12.98	75	626	0.330	ug/l #	34
93) 1,2,4-Trichlorobenzene	13.63	180	2251	0.295	ug/l	93
94) Hexachlorobutadiene	13.76	225	937	0.292	ug/l #	58
95) Naphthalene	13.82	128	5230	0.227	ug/l #	91
96) 1,2,3-Trichlorobenzene	14.00	180	2101	0.288	ug/l	91

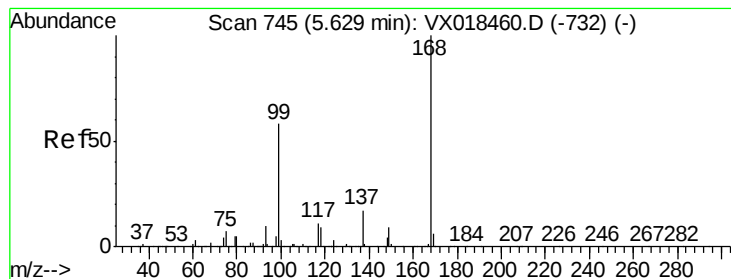
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 17 12:17:36 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

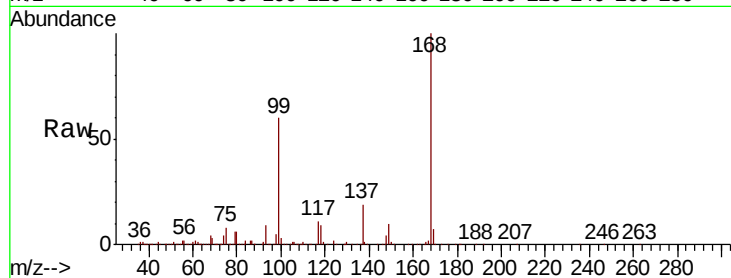
EB01-20200917

Tot Ion:168 Resp: 479683

Ion Ratio Lower Upper

168 100

99 59.8 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

150000

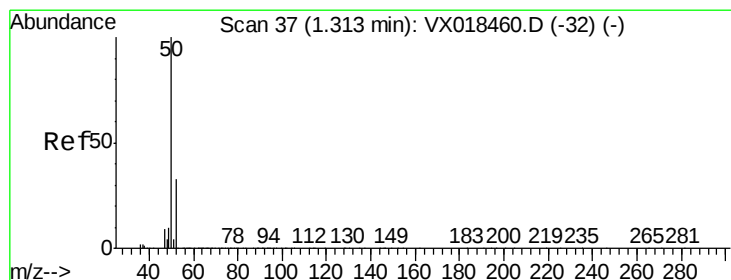
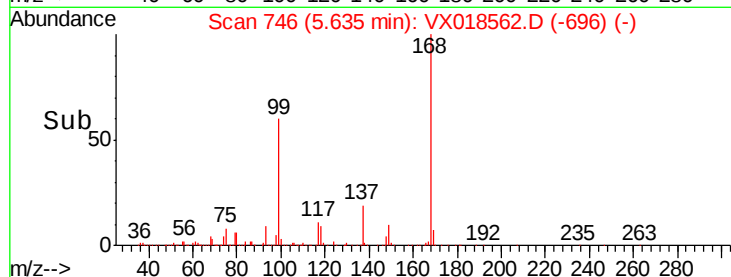
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.209 ug/l

RT: 1.31 min Scan# 37

Delta R.T. -0.00 min

Lab File: VX018562.D

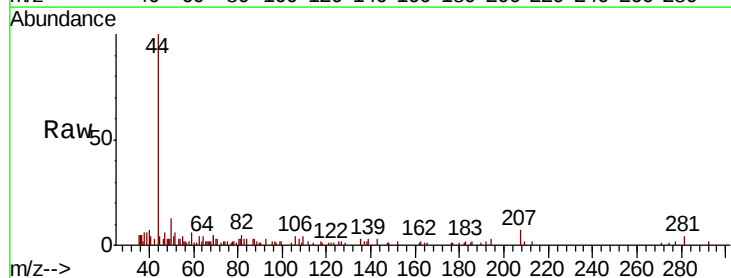
Acq: 24 Sep 2020 11:25

Tgt Ion: 50 Resp: 1111

Ion Ratio Lower Upper

50 100

52 66.0 26.6 40.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

600

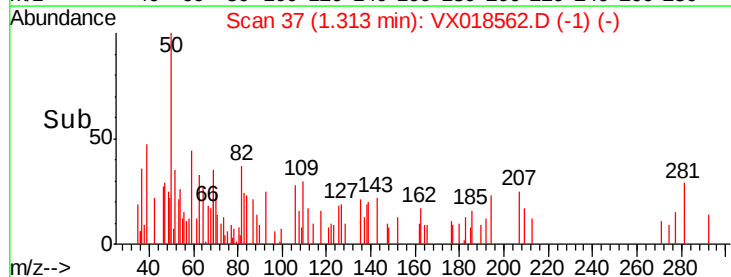
400

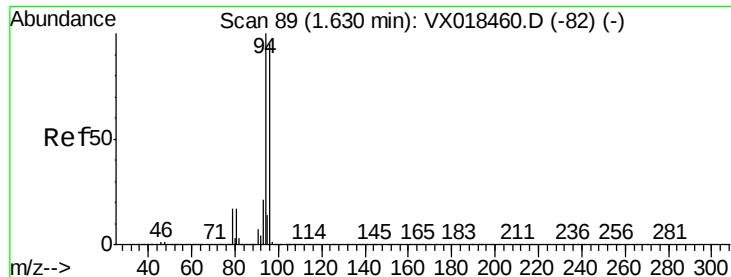
200

0

Time-->

1.25 1.30 1.35





#5

Bromomethane

Concen: 0.316 ug/l

RT: 1.65 min Scan# 92

Delta R.T. 0.02 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

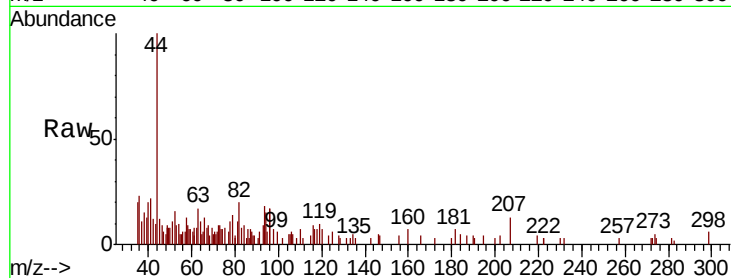
EB01-20200917

Tot Ion: 94 Resp: 1092

Ion Ratio Lower Upper

94 100

96 93.5 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

800

600

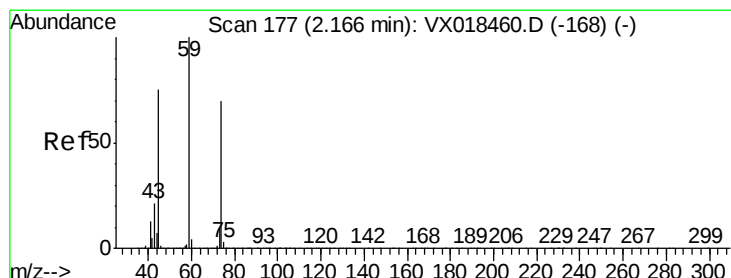
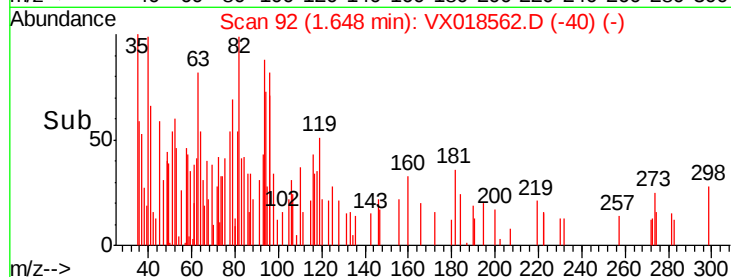
400

200

0

1.60 1.65 1.70

Time-->



#8

Diethyl Ether

Concen: 0.318 ug/l

RT: 2.17 min Scan# 177

Delta R.T. -0.00 min

Lab File: VX018562.D

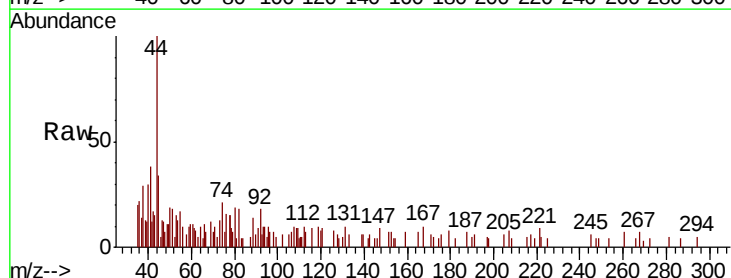
Acq: 24 Sep 2020 11:25

Tgt Ion: 74 Resp: 954

Ion Ratio Lower Upper

74 100

45 75.9 50.7 152.1



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1200

1000

800

600

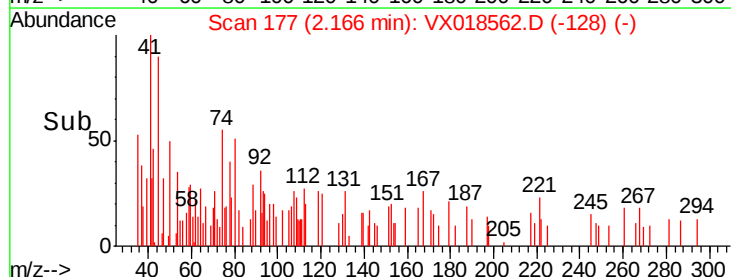
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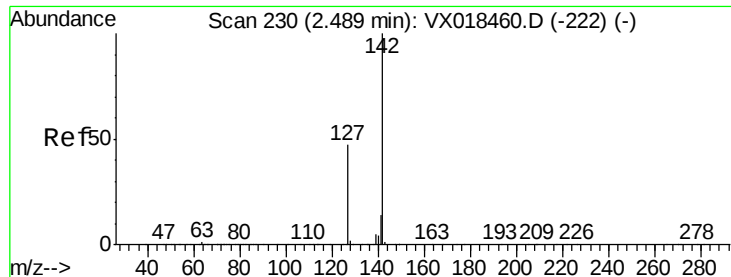
200

0

2.10 2.15 2.20

Time-->





#10

Methyl Iodide

Concen: 5.183 ug/l

RT: 2.50 min Scan# 231

Delta R.T. 0.01 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

EB01-20200917

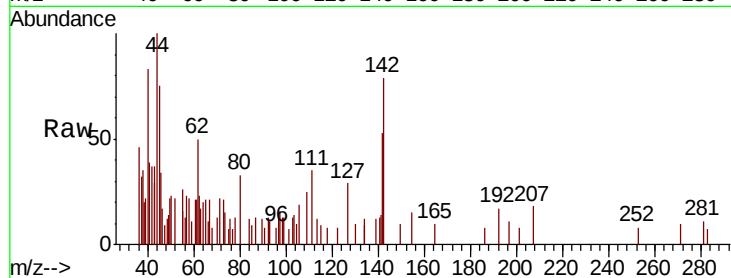
Tot Ion:142 Resp: 1696

Ion Ratio Lower Upper

142 100

127 0.0 36.0 54.0#

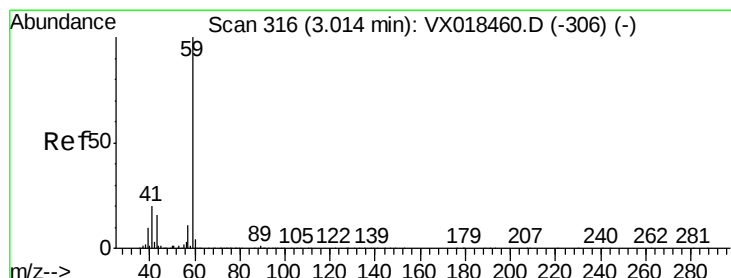
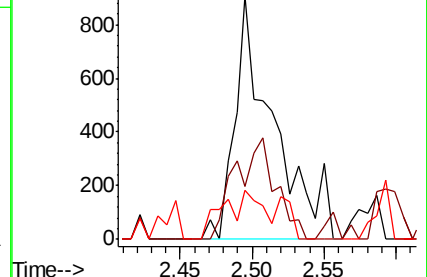
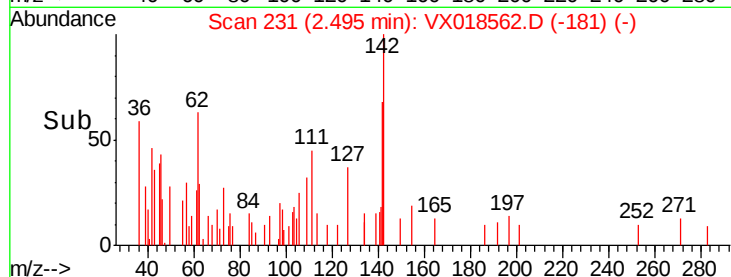
141 11.0 11.9 17.9#



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: 0.480 ug/l

RT: 3.00 min Scan# 313

Delta R.T. -0.02 min

Lab File: VX018562.D

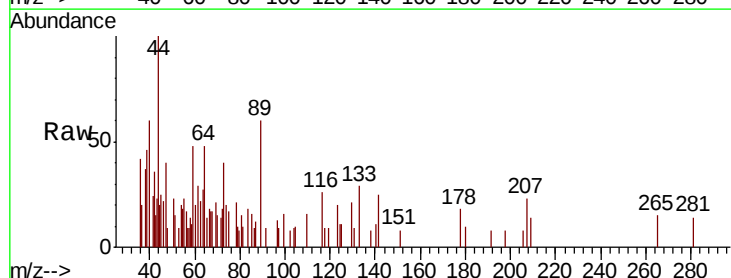
Acq: 24 Sep 2020 11:25

Tgt Ion: 59 Resp: 567

Ion Ratio Lower Upper

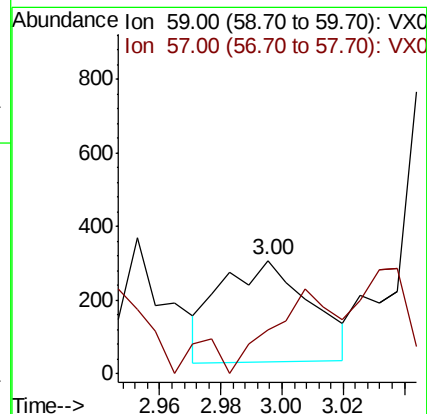
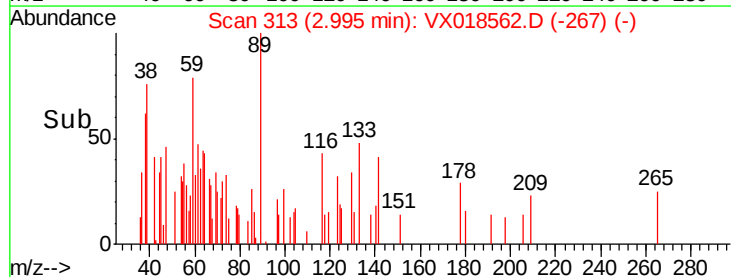
59 100

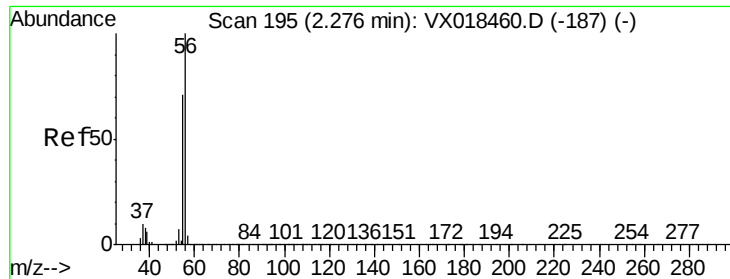
57 58.4 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.381 ug/l

RT: 2.28 min Scan# 195

Delta R.T. -0.00 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

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ClientSampleId :

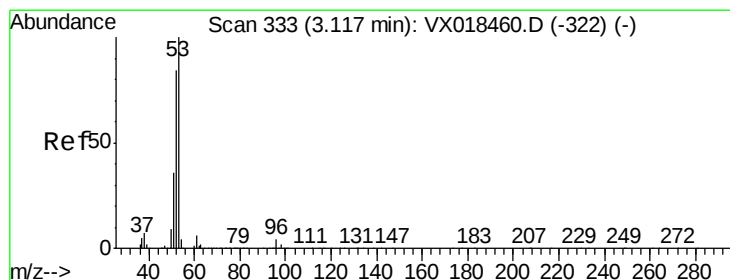
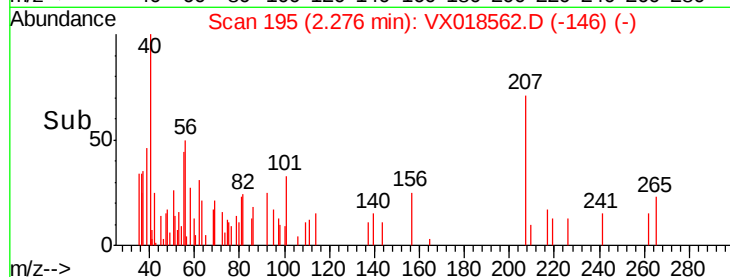
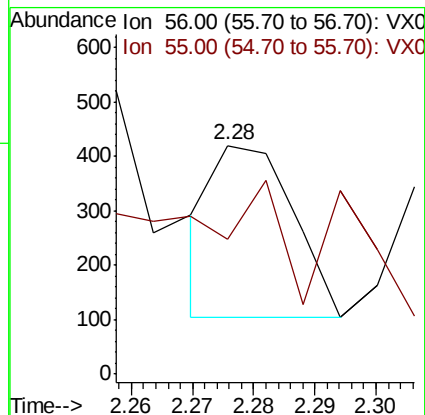
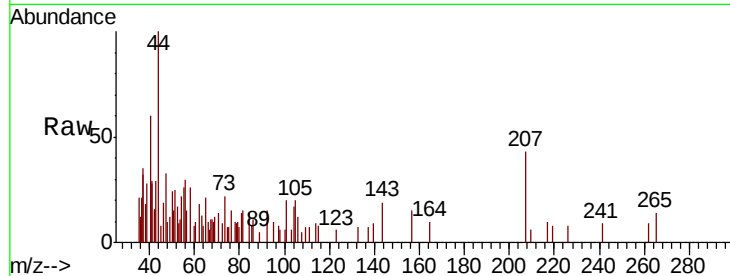
EB01-20200917

Tot Ion: 56 Resp: 285

Ion Ratio Lower Upper

56 100

55 187.7 58.2 87.4#



#15

Acrylonitrile

Concen: 0.508 ug/l

RT: 3.14 min Scan# 336

Delta R.T. 0.02 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

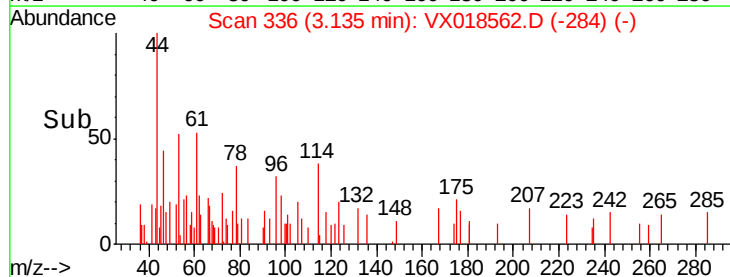
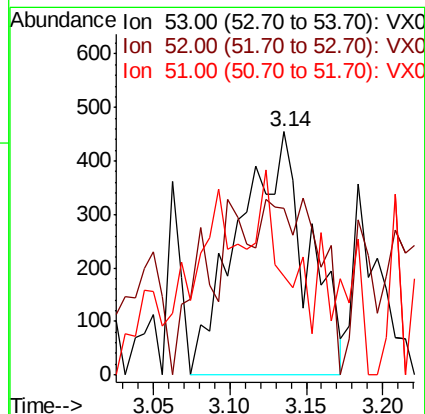
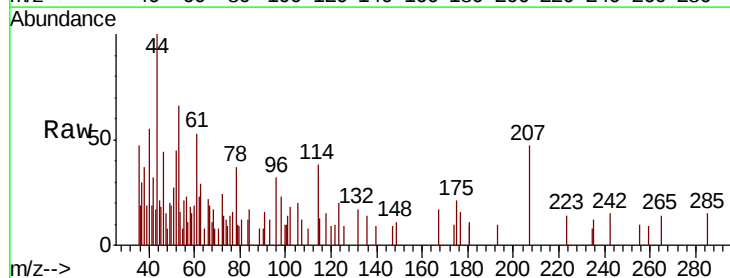
Tgt Ion: 53 Resp: 1431

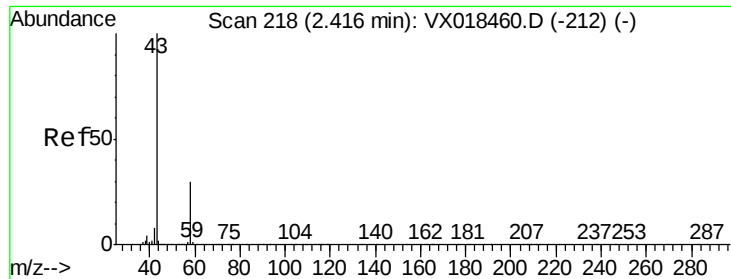
Ion Ratio Lower Upper

53 100

52 0.0 65.8 98.8#

51 10.6 29.2 43.8#

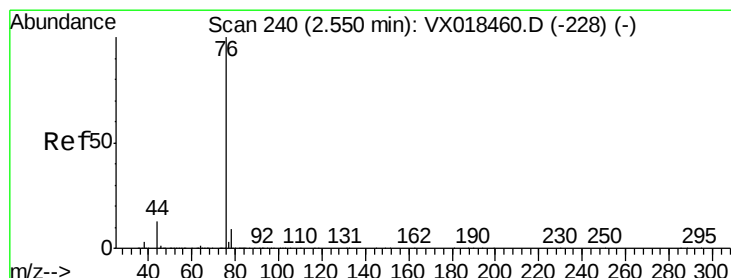
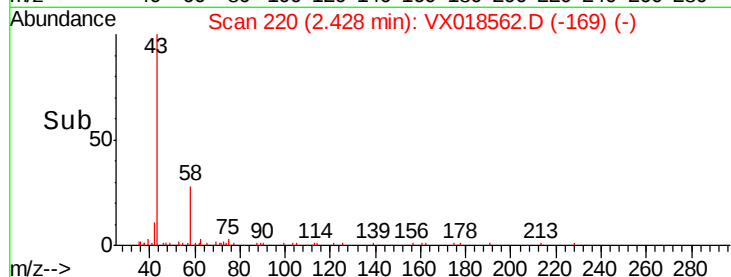
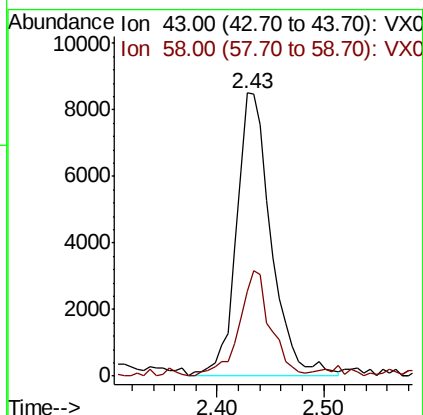
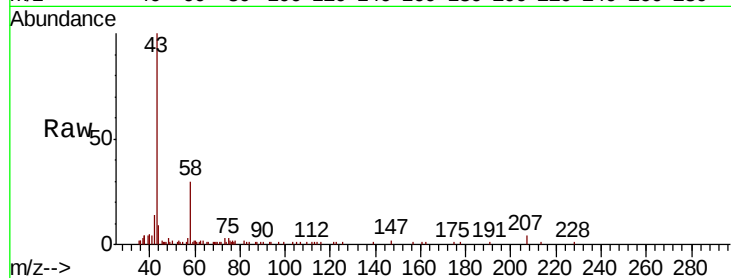




#16
Acetone
Concen: 7.523 ug/l
RT: 2.43 min Scan# 220
Delta R.T. 0.01 min
Lab File: VX018562.D
Acq: 24 Sep 2020 11:25

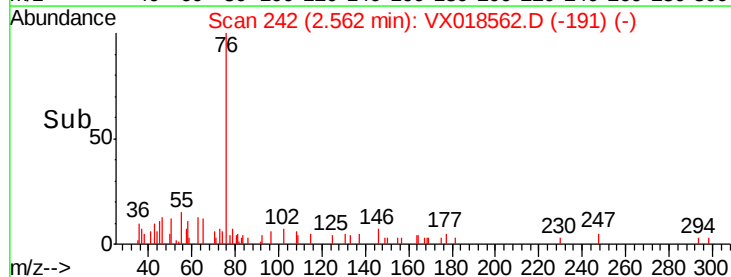
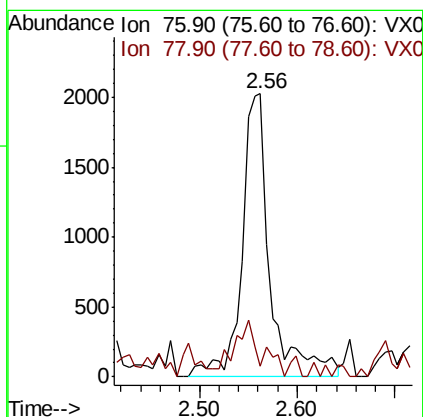
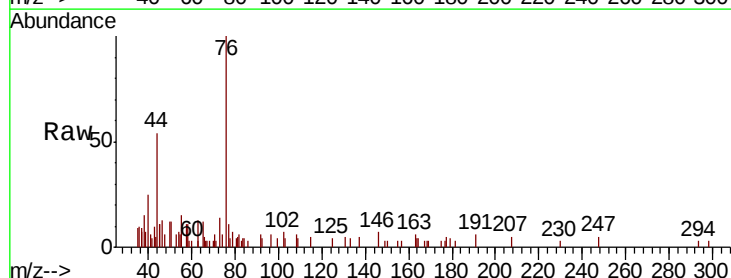
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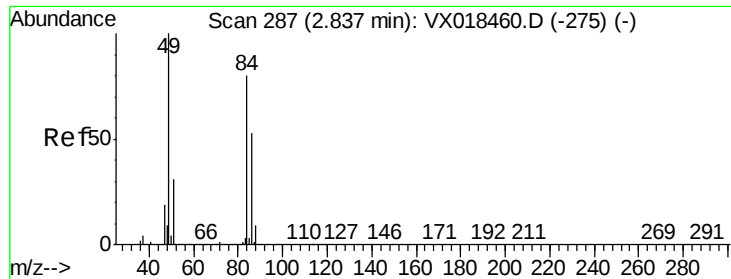
Tot Ion: 43 Resp: 19523
Ion Ratio Lower Upper
43 100
58 29.9 24.0 36.0



#17
Carbon Disulfide
Concen: 0.290 ug/l
RT: 2.56 min Scan# 242
Delta R.T. 0.01 min
Lab File: VX018562.D
Acq: 24 Sep 2020 11:25

Tgt Ion: 76 Resp: 4028
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.4#

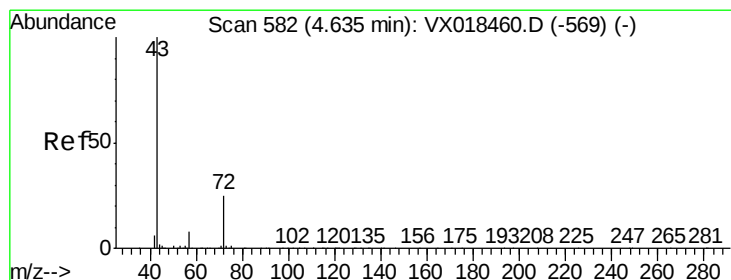
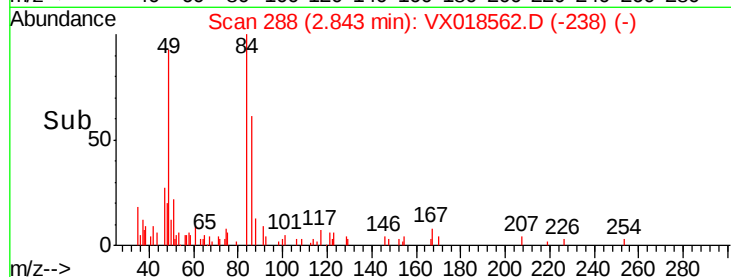
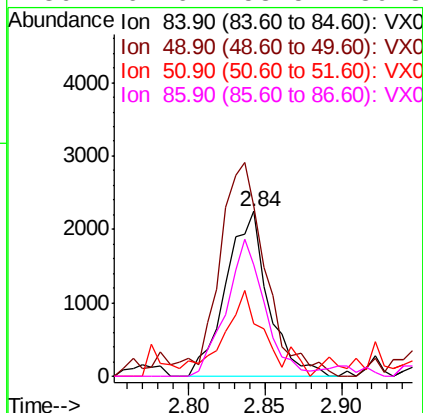
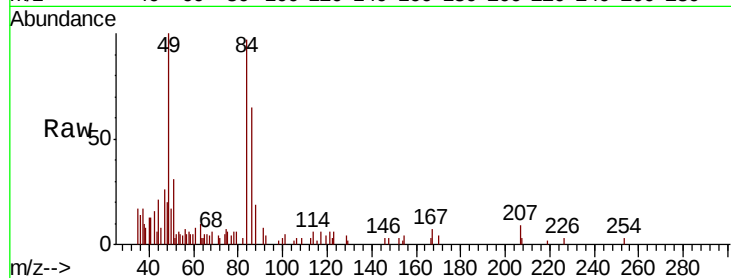




#20
Methvlene Chloride
Concen: 0.751 ug/l
RT: 2.84 min Scan# 288
Delta R.T. 0.01 min
Lab File: VX018562.D
Acq: 24 Sep 2020 11:25

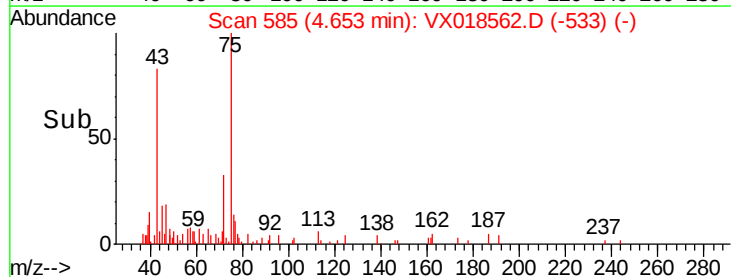
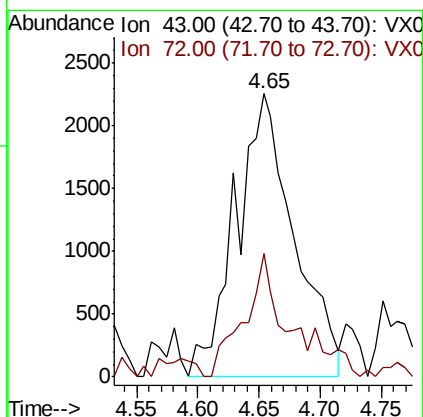
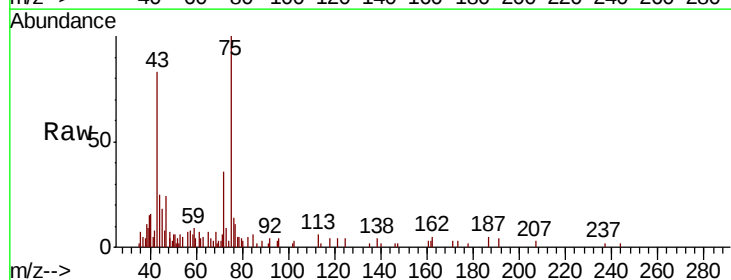
Instrument :
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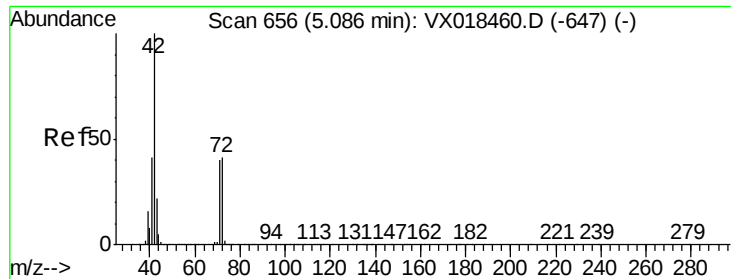
Tot Ion: 84 Resp: 4300
Ion Ratio Lower Upper
84 100
49 97.3 100.6 151.0#
51 25.3 30.9 46.3#
86 67.6 53.5 80.3



#25
2-Butanone
Concen: 1.849 ug/l
RT: 4.65 min Scan# 585
Delta R.T. 0.02 min
Lab File: VX018562.D
Acq: 24 Sep 2020 11:25

Tgt Ion: 43 Resp: 7473
Ion Ratio Lower Upper
43 100
72 37.9 20.2 30.4#





#29

Tetrahydrofuran

Concen: 0.483 ug/l

RT: 5.11 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

EB01-20200917

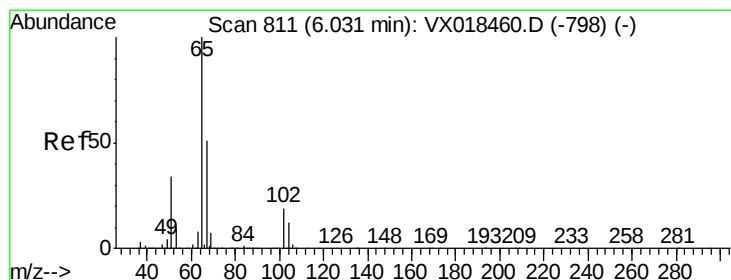
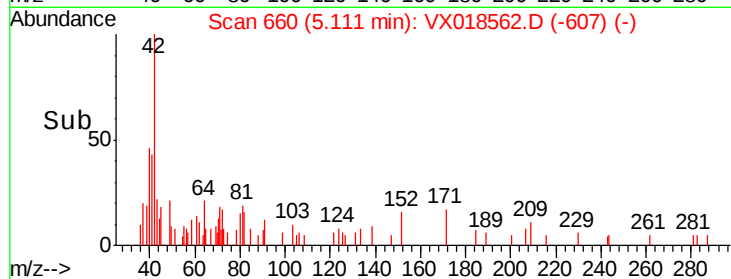
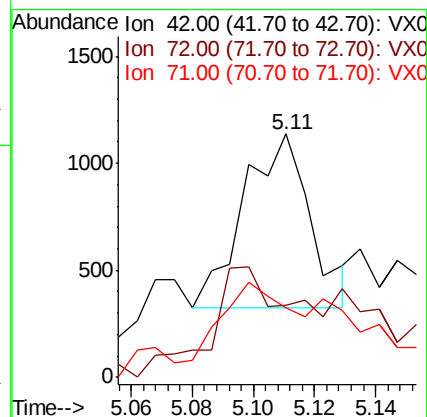
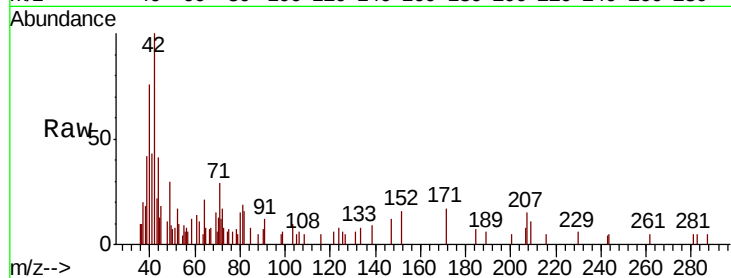
Tot Ion: 42 Resp: 1231

Ion Ratio Lower Upper

42 100

72 64.4 34.3 51.5#

71 47.9 32.1 48.1



#33

1,2-Dichloroethane-d4

Concen: 48.934 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX018562.D

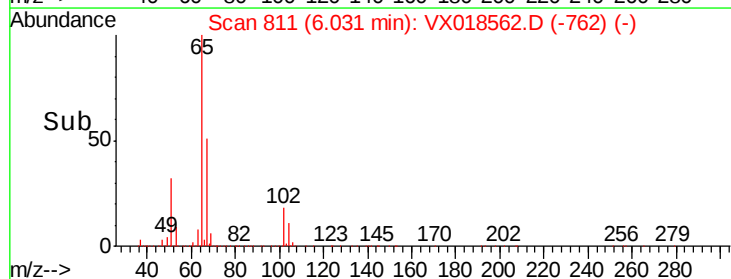
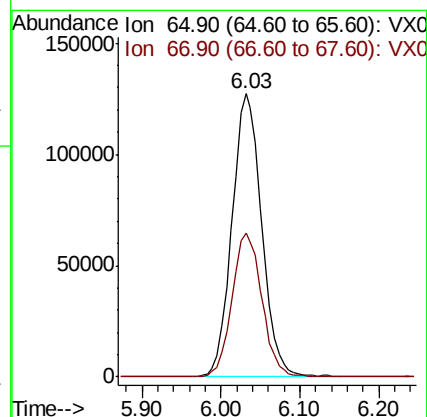
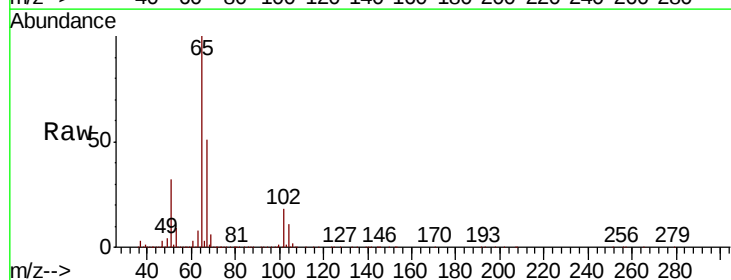
Acq: 24 Sep 2020 11:25

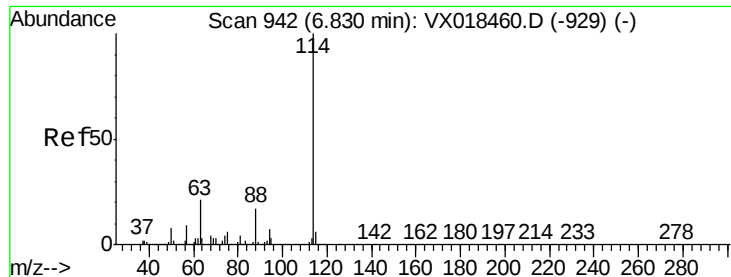
Tgt Ion: 65 Resp: 332059

Ion Ratio Lower Upper

65 100

67 51.1 0.0 105.6

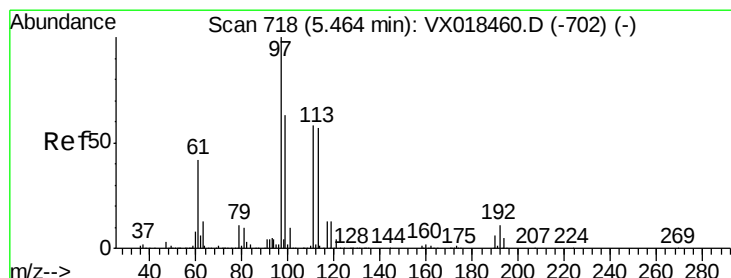
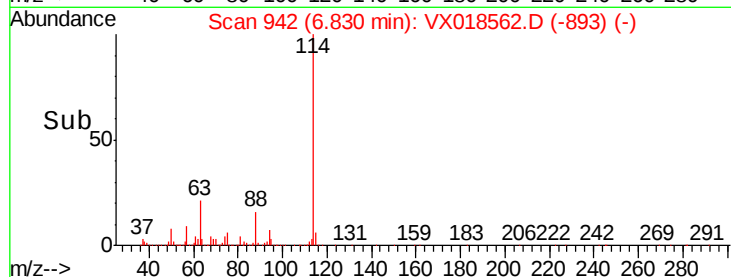
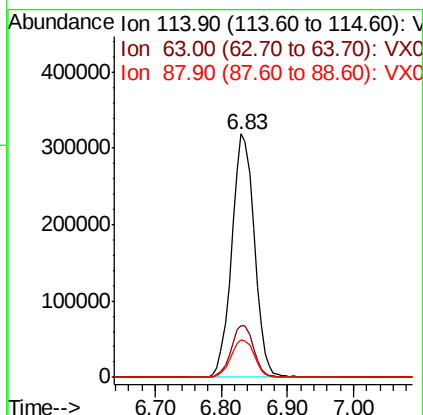
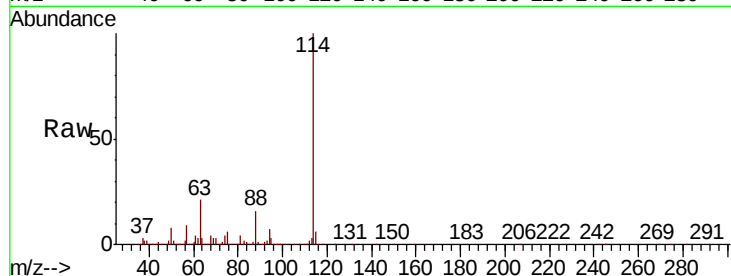




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.83 min Scan# 942
Delta R.T. -0.00 min
Lab File: VX018562.D
Acq: 24 Sep 2020 11:25

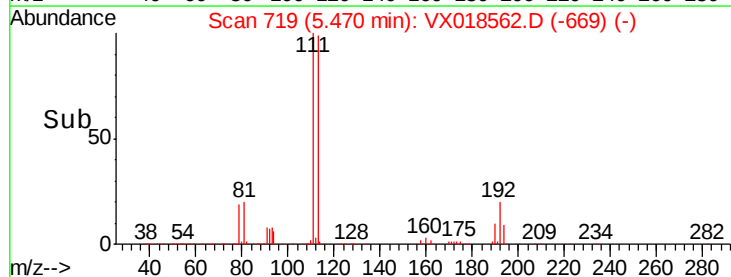
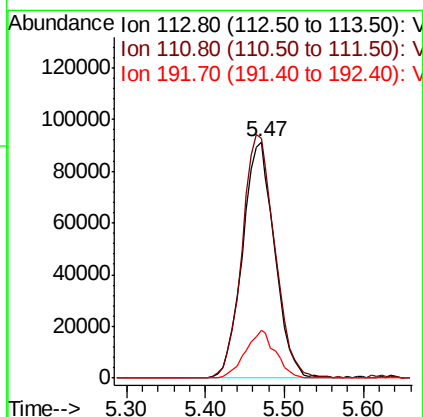
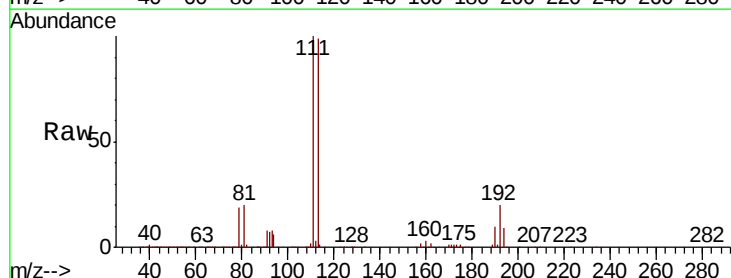
Instrument :
MSVOA_X
ClientSampleId :
EB01-20200917

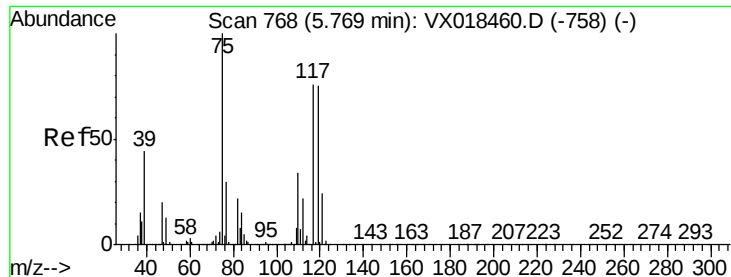
Tot Ion:114 Resp: 754781
Ion Ratio Lower Upper
114 100
63 21.0 0.0 42.8
88 15.5 0.0 33.6



#35
Dibromofluoromethane
Concen: 49.581 ug/l
RT: 5.47 min Scan# 719
Delta R.T. 0.01 min
Lab File: VX018562.D
Acq: 24 Sep 2020 11:25

Tgt Ion:113 Resp: 258708
Ion Ratio Lower Upper
113 100
111 104.7 81.4 122.2
192 19.2 16.6 24.8

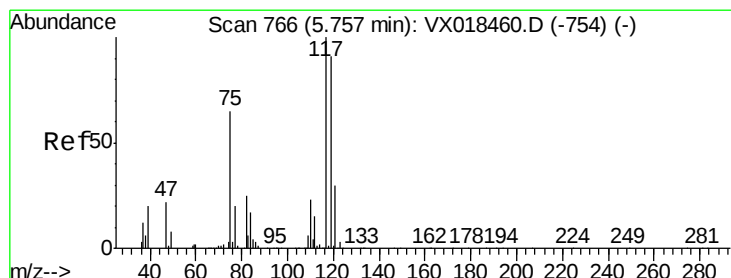
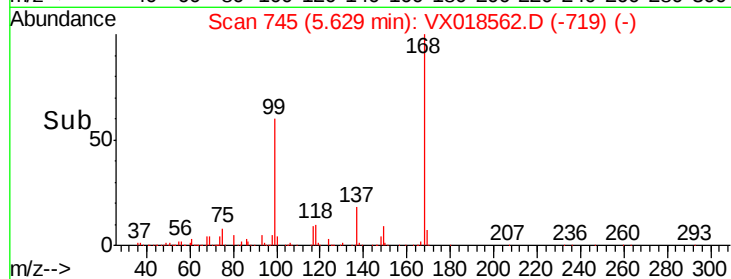
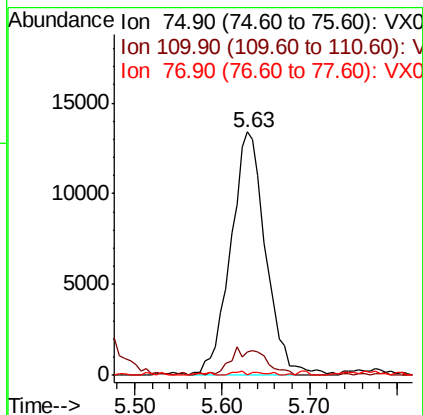
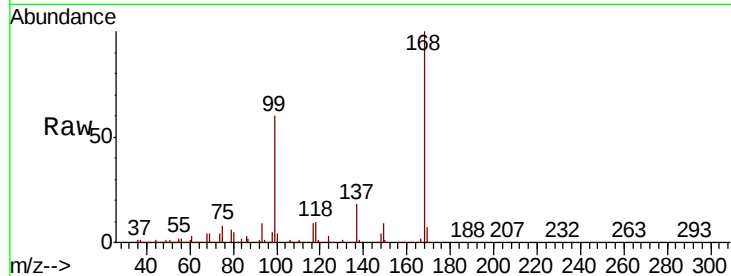




#36
 1,1-Dichloropropene
 Concen: 5.097 ug/l
 RT: 5.63 min Scan# 745
 Delta R.T. -0.14 min
 Lab File: VX018562.D
 Acq: 24 Sep 2020 11:25

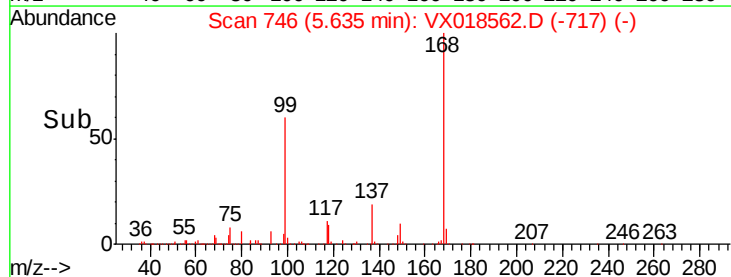
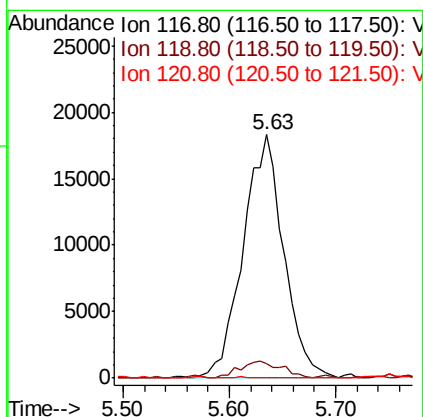
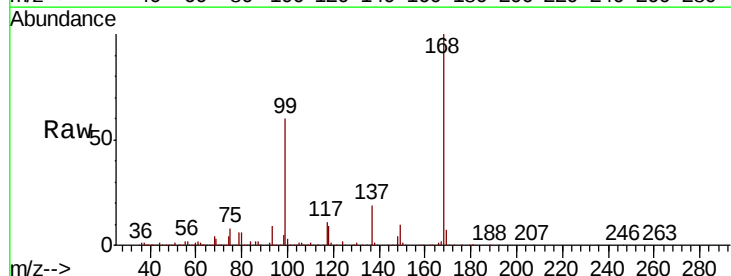
Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20200917

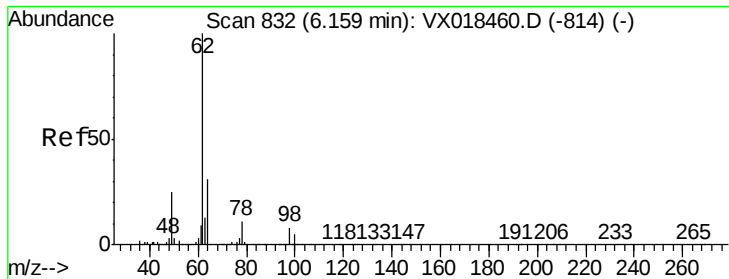
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.3	17.6	52.8#
77	0.6	25.0	37.6#



#38
 Carbon Tetrachloride
 Concen: 6.028 ug/l
 RT: 5.63 min Scan# 746
 Delta R.T. -0.12 min
 Lab File: VX018562.D
 Acq: 24 Sep 2020 11:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.0	72.3	108.5#
121	0.4	23.8	35.8#





#42

1,2-Dichloroethane

Concen: 0.212 ug/l

RT: 6.18 min Scan# 835

Delta R.T. 0.02 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

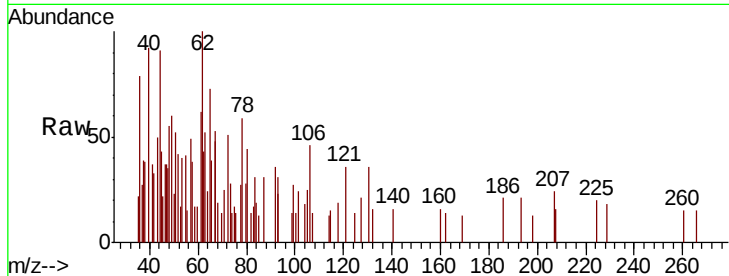
EB01-20200917

Tot Ion: 62 Resp: 1734

Ion Ratio Lower Upper

62 100

98 12.9 0.0 16.6

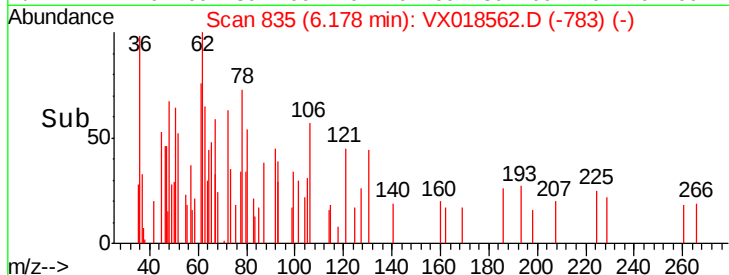


Abundance Ion 61.90 (61.60 to 62.60): VX0

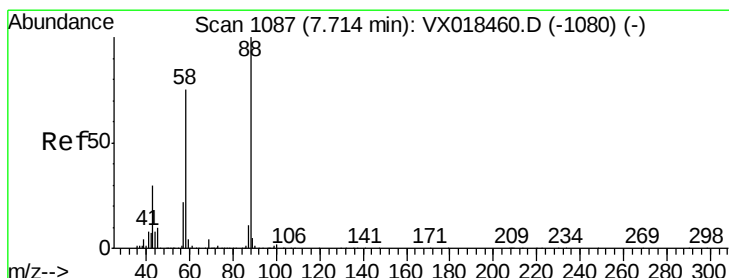
Ion 97.90 (97.60 to 98.60): VX0

6.18

6.10 6.15 6.20



Time-->



#49

1,4-Dioxane

Concen: 1.121 ug/l

RT: 7.76 min Scan# 1094

Delta R.T. 0.04 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

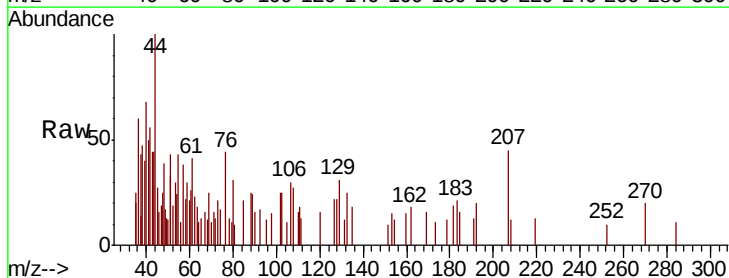
Tgt Ion: 88 Resp: 117

Ion Ratio Lower Upper

88 100

43 355.6 29.9 44.9#

58 144.4 59.0 88.6#



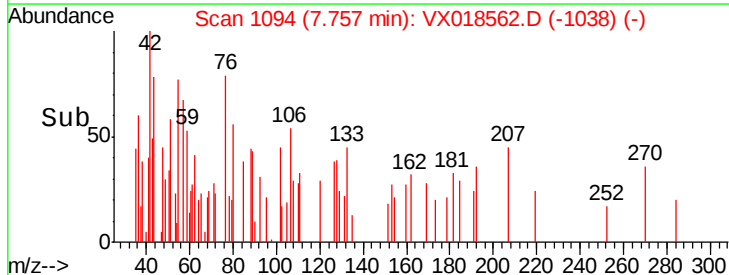
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

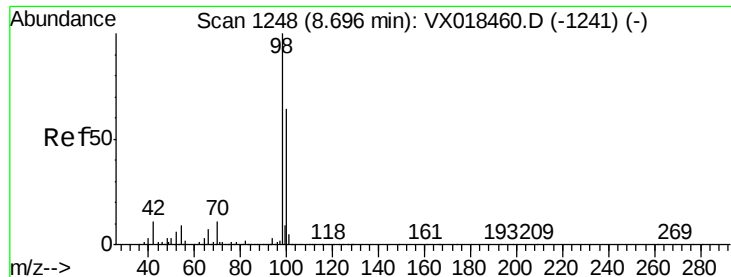
Ion 58.00 (57.70 to 58.70): VX0

7.76

7.72 7.74 7.76 7.78



Time-->



#50

Toluene-d8

Concen: 47.939 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

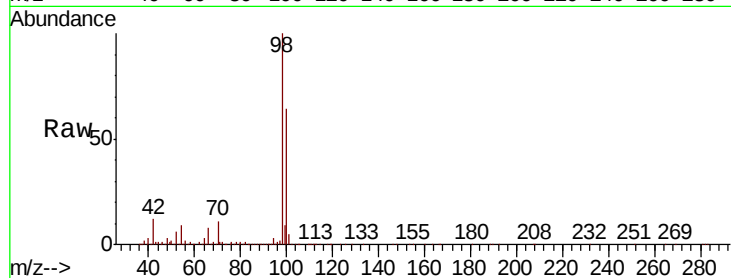
EB01-20200917

Tot Ion: 98 Resp: 908854

Ion Ratio Lower Upper

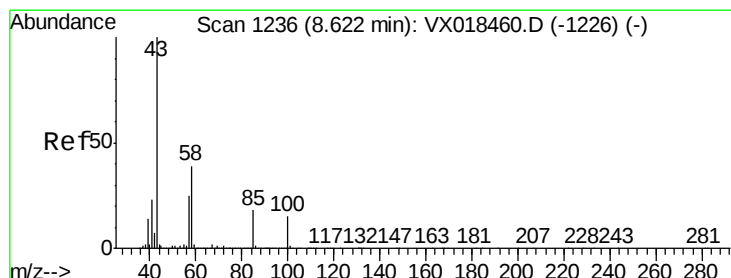
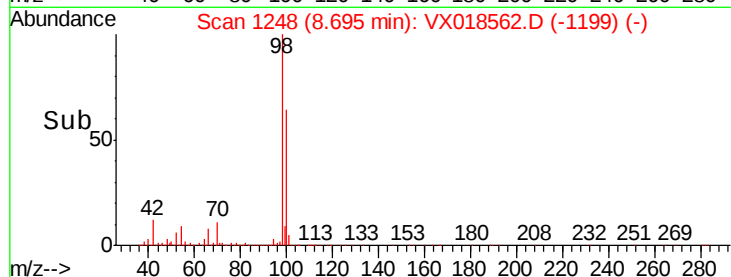
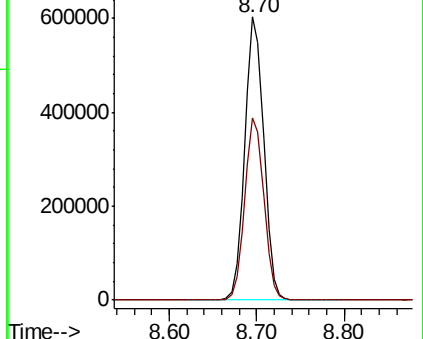
98 100

100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



#51

4-Methyl-2-Pentanone

Concen: 0.840 ug/l

RT: 8.62 min Scan# 1236

Delta R.T. -0.00 min

Lab File: VX018562.D

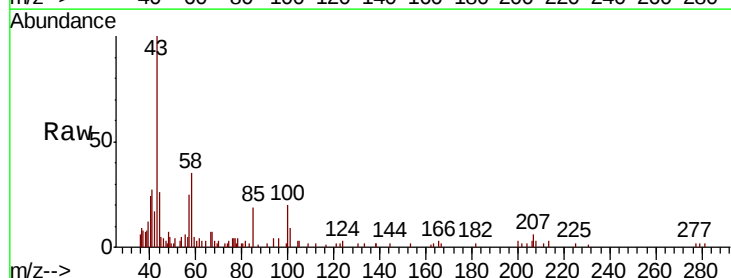
Acq: 24 Sep 2020 11:25

Tgt Ion: 43 Resp: 6496

Ion Ratio Lower Upper

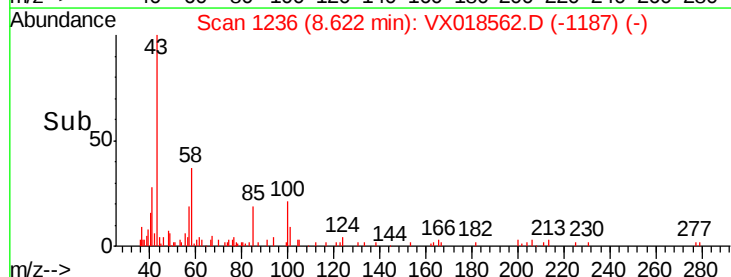
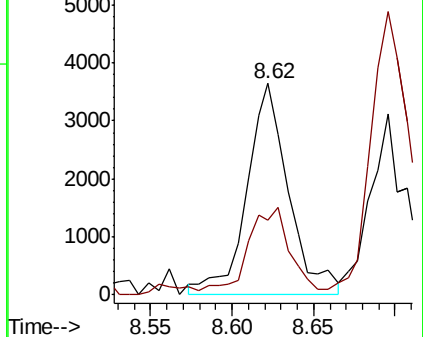
43 100

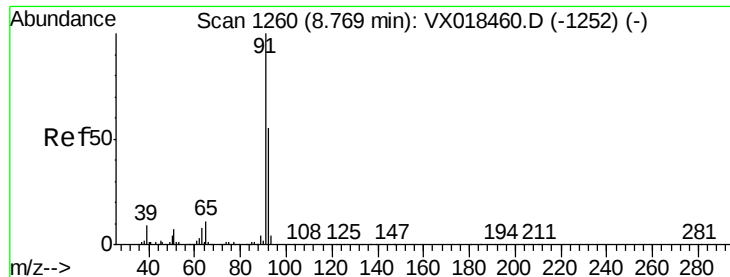
58 40.0 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#52

Toluene

Concen: 7.289 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. -0.00 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

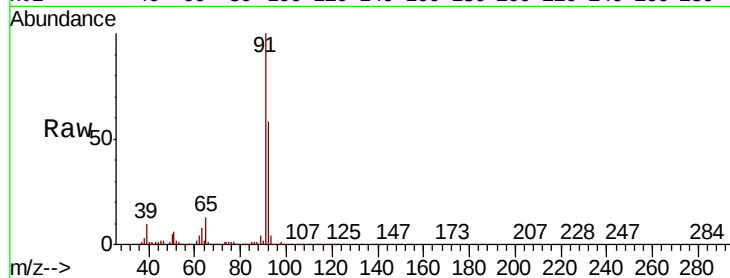
EB01-20200917

Tot Ion: 92 Resp: 96295

Ion Ratio Lower Upper

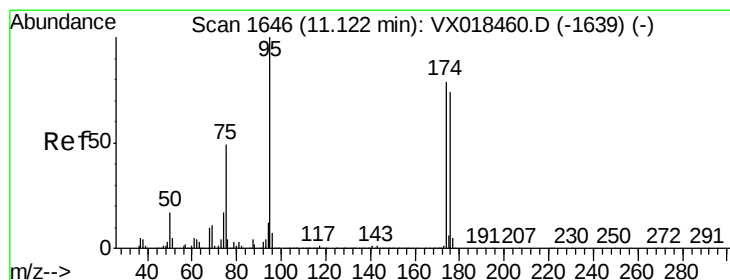
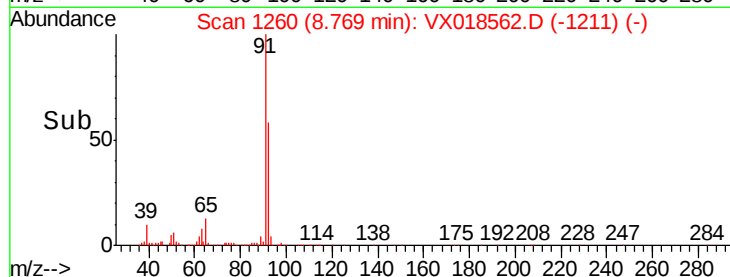
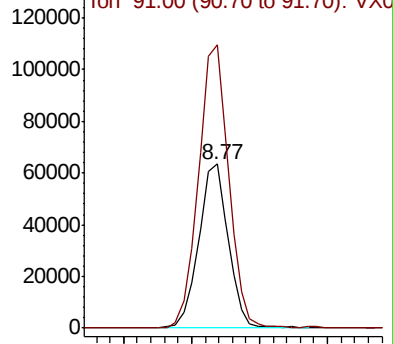
92 100

91 174.7 140.6 210.8



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0



#62

4-Bromofluorobenzene

Concen: 46.546 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

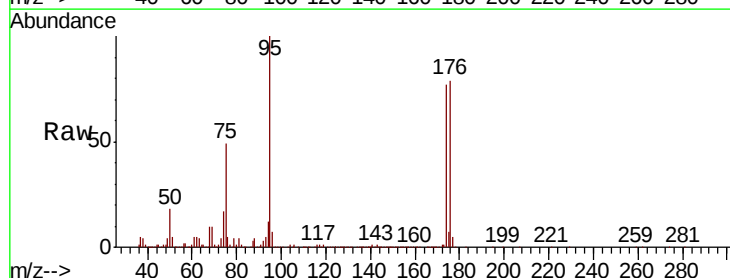
Tgt Ion: 95 Resp: 351016

Ion Ratio Lower Upper

95 100

174 81.2 0.0 161.4

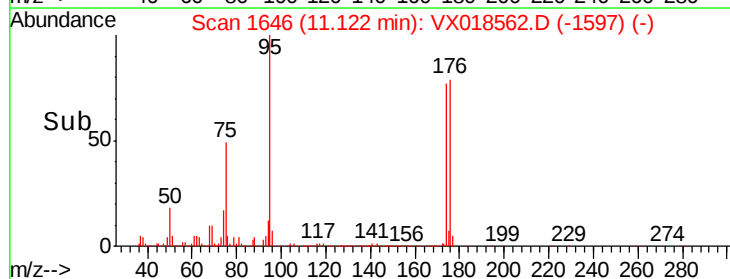
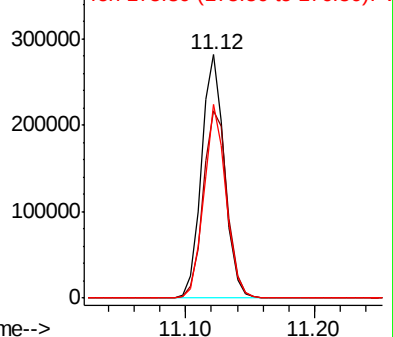
176 76.6 0.0 151.4

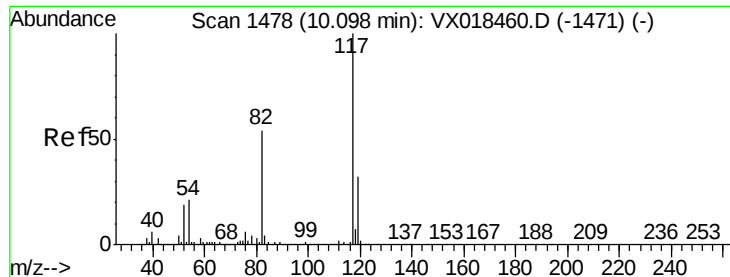


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

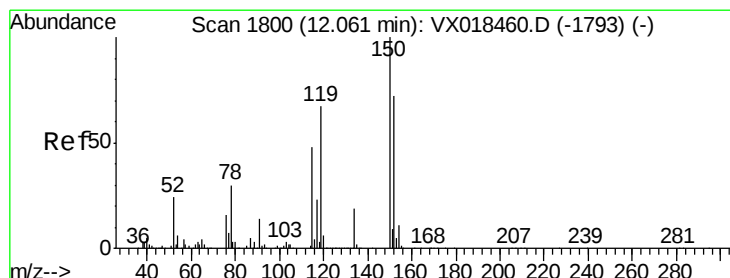
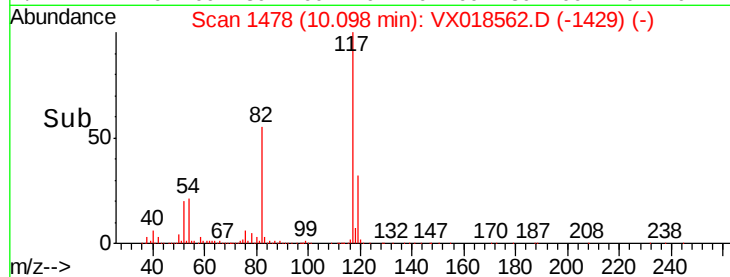
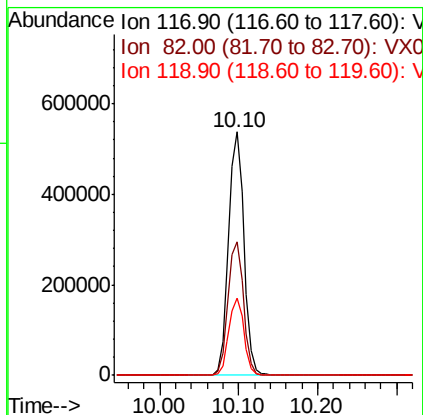
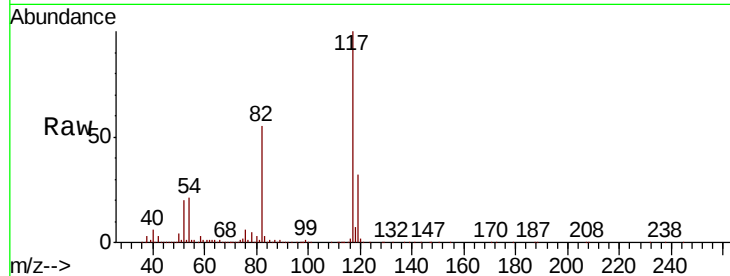




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX018562.D
Acq: 24 Sep 2020 11:25

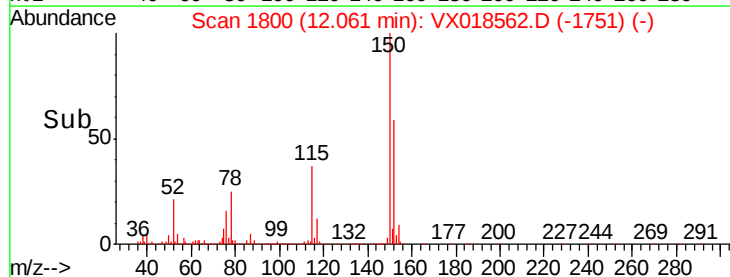
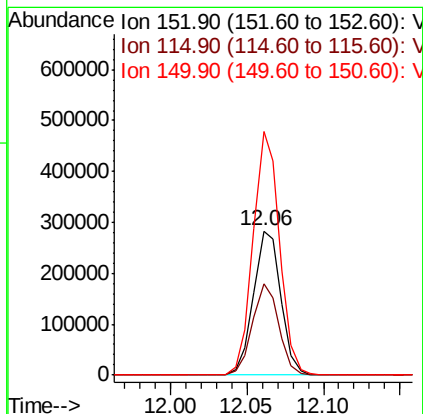
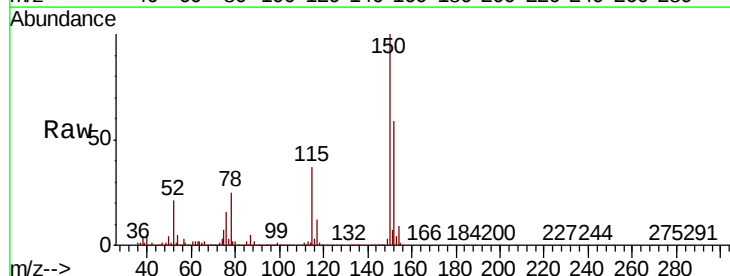
Instrument :
MSVOA_X
ClientSampleId :
EB01-20200917

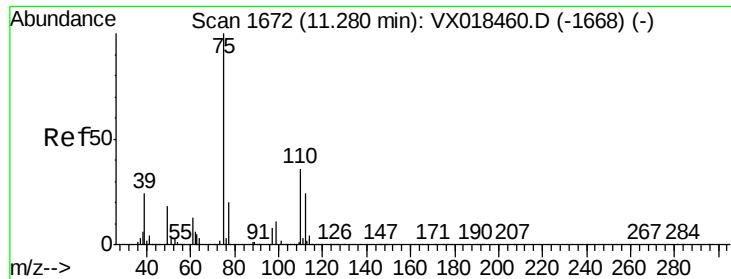
Tot Ion	Ratio	Lower	Upper
117	100		
82	55.0	43.3	64.9
119	31.9	25.9	38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX018562.D
Acq: 24 Sep 2020 11:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	60.7	41.8	125.4
150	162.3	0.0	342.4





#76

1,2,3-Trichloropropane

Concen: 23.907 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

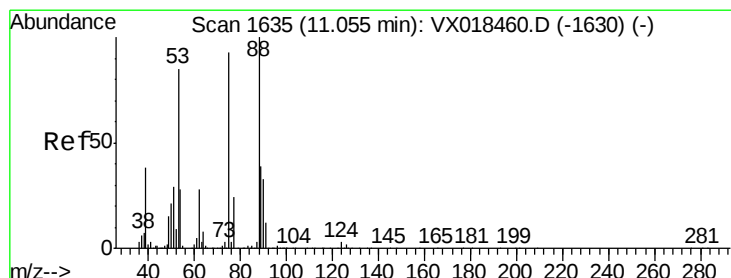
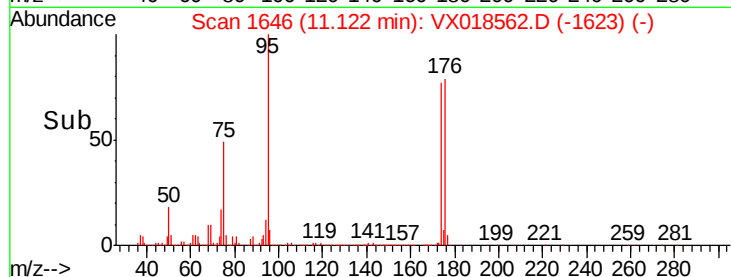
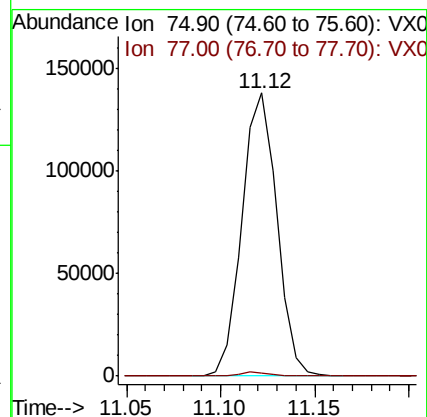
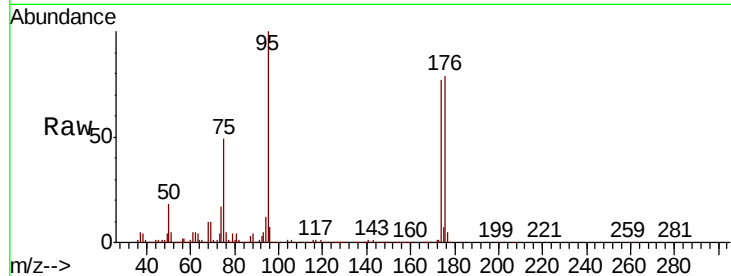
EB01-20200917

Tot Ion: 75 Resp: 177726

Ion Ratio Lower Upper

75 100

77 1.4 20.9 62.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 61.261 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

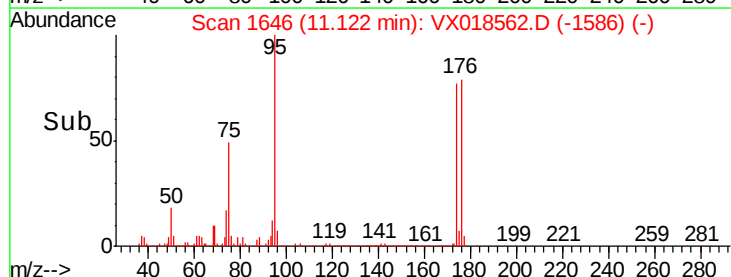
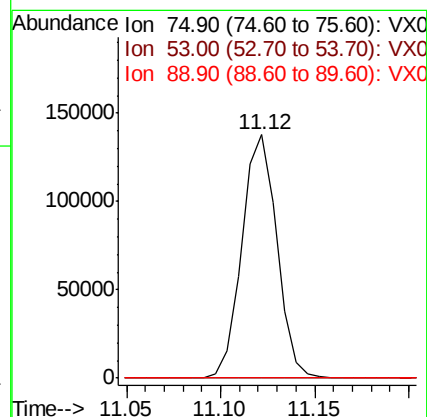
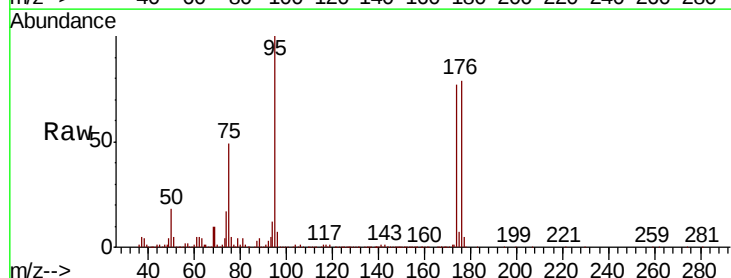
Tgt Ion: 75 Resp: 177726

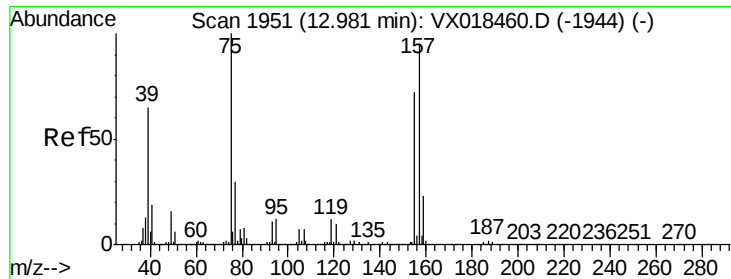
Ion Ratio Lower Upper

75 100

53 0.4 74.6 111.8#

89 0.2 36.2 54.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.330 ug/l

RT: 12.98 min Scan# 1950

Delta R.T. -0.01 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Instrument :

MSVOA_X

ClientSampleId :

EB01-20200917

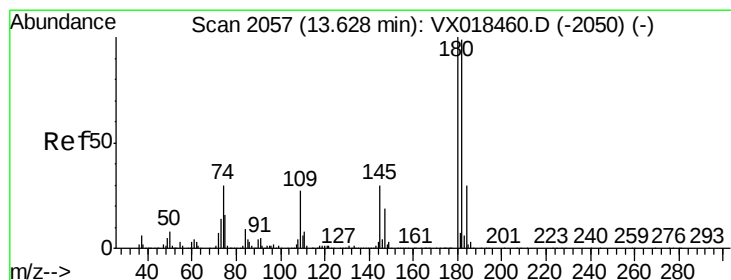
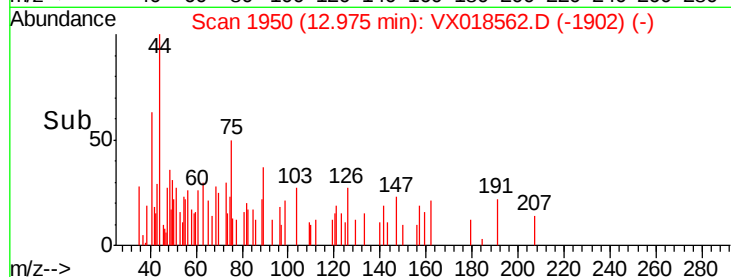
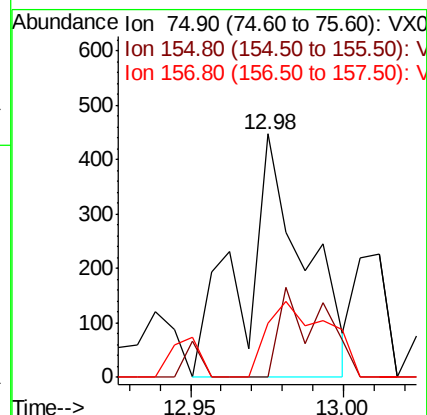
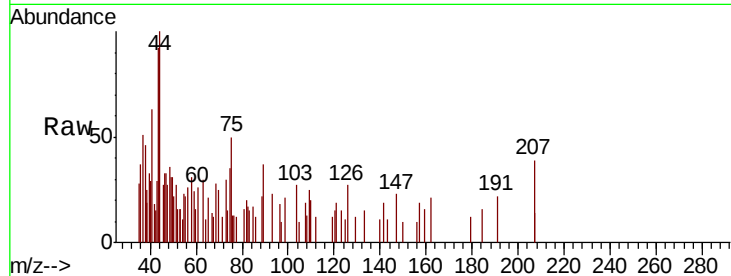
Tot Ion: 75 Resp: 626

Ion Ratio Lower Upper

75 100

155 25.4 38.8 116.4#

157 30.7 51.1 153.3#



#93

1,2,4-Trichlorobenzene

Concen: 0.295 ug/l

RT: 13.63 min Scan# 2058

Delta R.T. 0.01 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

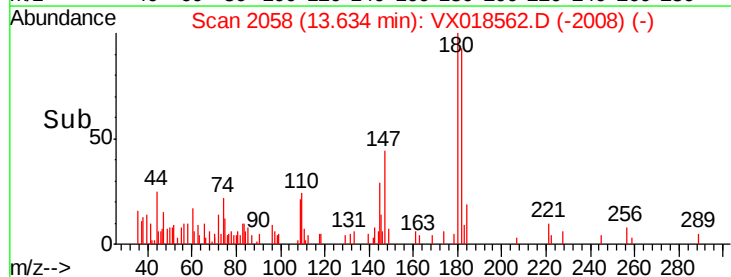
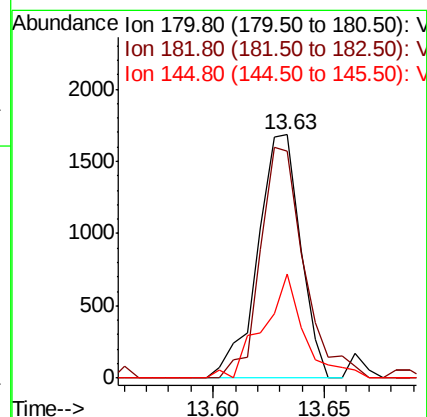
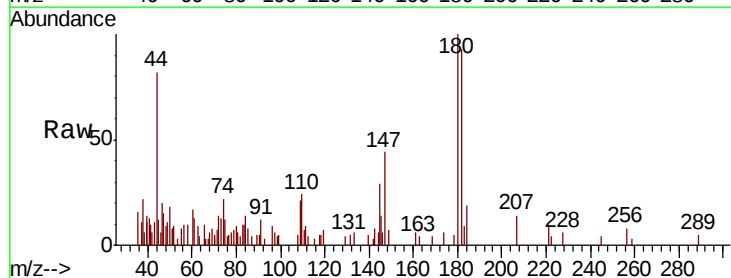
Tgt Ion: 180 Resp: 2251

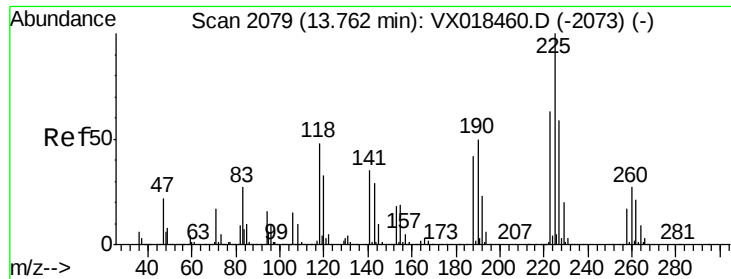
Ion Ratio Lower Upper

180 100

182 96.6 50.2 150.6

145 40.9 15.7 47.1





#94

Hexachlorobutadiene

Concen: 0.292 ug/l

RT: 13.76 min Scan# 2079

Delta R.T. -0.00 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

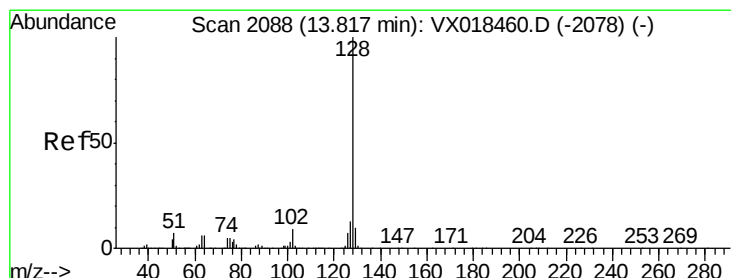
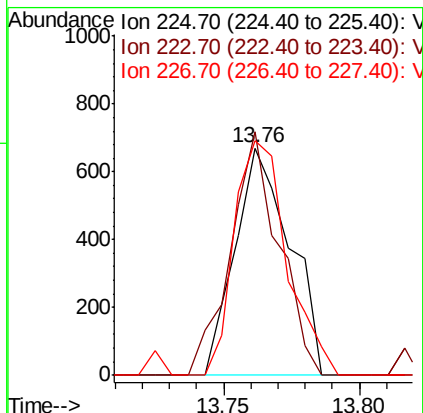
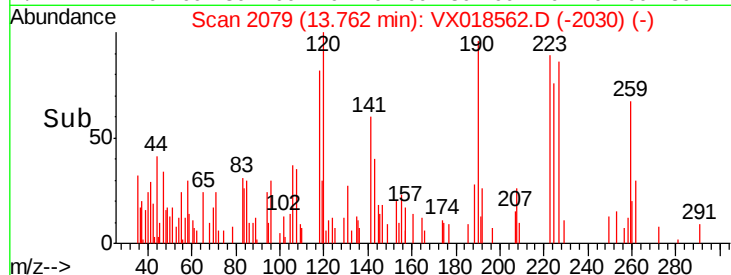
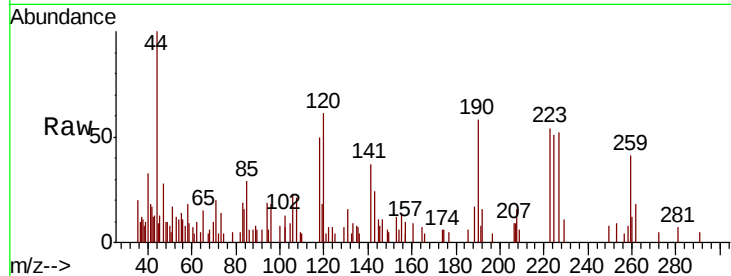
Instrument :

MSVOA_X

ClientSampleId :

EB01-20200917

Tot Ion:	225	Resp:	937
Ion	Ratio	Lower	Upper
225	100		
223	93.9	32.0	96.2
227	99.1	31.7	95.1#



#95

Naphthalene

Concen: 0.227 ug/l

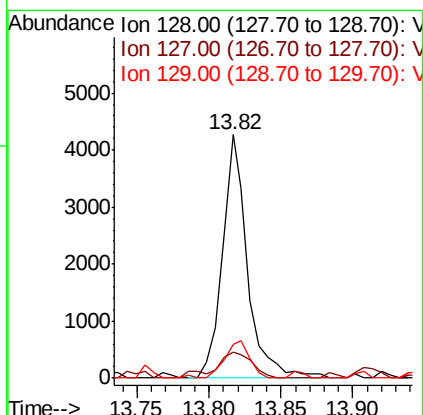
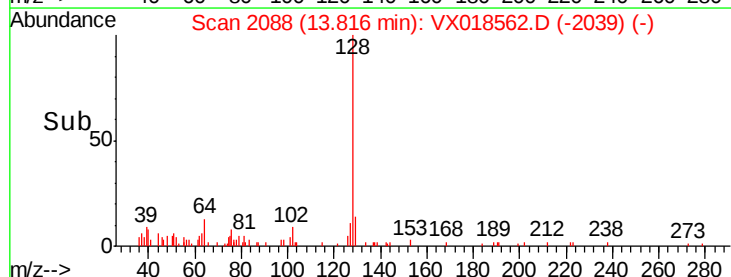
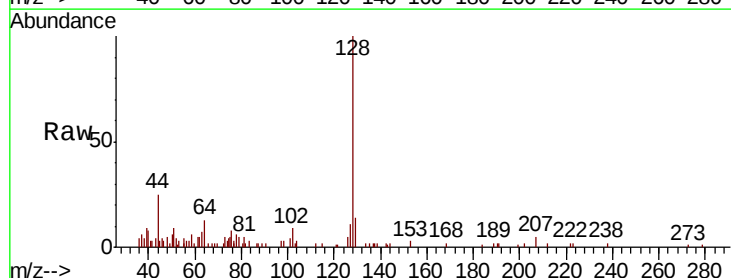
RT: 13.82 min Scan# 2088

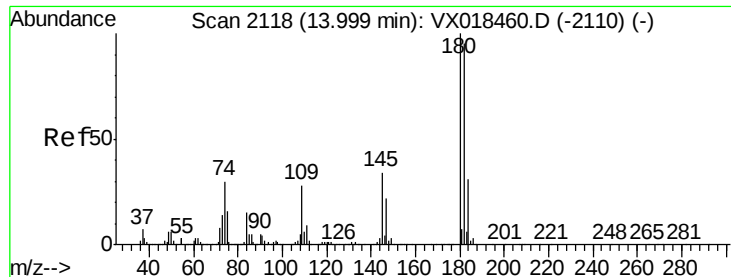
Delta R.T. -0.00 min

Lab File: VX018562.D

Acq: 24 Sep 2020 11:25

Tgt Ion:	128	Resp:	5230
Ion	Ratio	Lower	Upper
128	100		
127	15.5	10.3	15.5#
129	15.5	8.7	13.1#

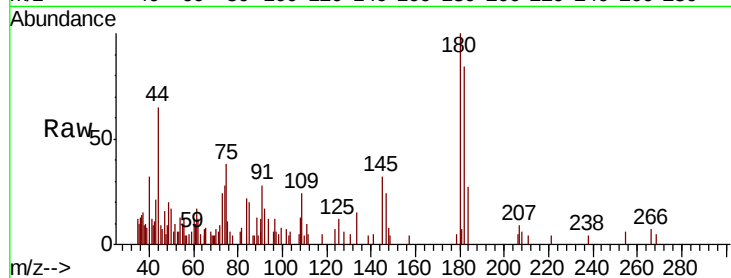




#96
 1,2,3-Trichlorobenzene
 Concen: 0.288 ug/l
 RT: 14.00 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VX018562.D
 Acq: 24 Sep 2020 11:25

Instrument :
 MSVOA_X
 ClientSampleId :
 EB01-20200917

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.2	47.1	141.3
145	31.0	16.8	50.4



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

