

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW011521\
 Data File : VW017911.D
 Acq On : 15 Jan 2021 20:30
 Operator : SY/VA
 Sample : M1099-21
 Misc : 5.50G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Jan 18 02:11:00 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM122420S.M
 Quant Title : VOC Analysis
 QLast Update : Mon Jan 18 02:07:49 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	302567	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	209552	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.55	152	57114	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	107332	22.93	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	91.72%
7) Chloroethane-d5	2.89	69	98765	25.56	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	102.24%
10) 1,1-Dichloroethene-d2	4.02	63	135835	16.65	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	66.60%
20) 2-Butanone-d5	7.09	46	65815	86.74	ug/L	0.01
Spiked Amount	50.000	Range	20 - 135	Recovery	=	173.48%#
24) Chloroform-d	7.65	84	193917	24.53	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.12%
26) 1,2-Dichloroethane-d4	8.31	65	124046	30.31	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	121.24%
29) Benzene-d6	8.27	84	364830	30.91	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	123.64%
33) 1,2-Dichloropropane-d6	9.27	67	112832	34.68	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	138.72%#
37) Toluene-d8	10.32	98	278926	24.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	98.40%
38) trans-1,3-Dichloropropene-	10.58	79	35470	24.46	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	97.84%
39) 2-Hexanone-d5	10.93	63	45775	112.03	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	224.06%#
48) 1,1,2,2-Tetrachloroethane-	12.69	84	88517	36.65	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	146.60%#
61) 1,2-Dichlorobenzene-d4	13.85	152	46080	23.17	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	92.68%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
12) 1,1-Dichloroethene	4.02	96	1127	0.302	ug/L #	1
13) Acetone	4.14	43	73952	112.868	ug/L	91
14) Carbon disulfide	4.38	76	18635	1.674	ug/L #	93
16) Methylene chloride	4.92	84	10424	2.409	ug/L	95
21) 2-Butanone	7.18	43	25548	28.988	ug/L	98
22) cis-1,2-Dichloroethene	7.17	96	2098	0.496	ug/L	95
34) Benzene	8.32	78	22466	1.875	ug/L	100
35) Trichloroethene	9.09	95	7016	2.116	ug/L #	88
36) Methylcyclohexane	9.33	83	7502	1.294	ug/L #	68
41) Bromodichloromethane	9.62	83	1206	0.311	ug/L #	24
42) cis-1,3-Dichloropropene	10.04	75	3080	0.682	ug/L #	72
44) Toluene	10.39	91	17146	1.255	ug/L	94
46) 1,1,2-Trichloroethane	10.76	97	4016	1.910	ug/L #	31
47) Tetrachloroethene	10.87	164	18855	7.272	ug/L	91
49) 2-Hexanone	10.93	43	17698	18.152	ug/L #	33
52) Chlorobenzene	11.66	112	535656	62.804	ug/L	96
53) Ethylbenzene	11.73	91	6485	0.418	ug/L	90

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 Response via : Initial Calibration

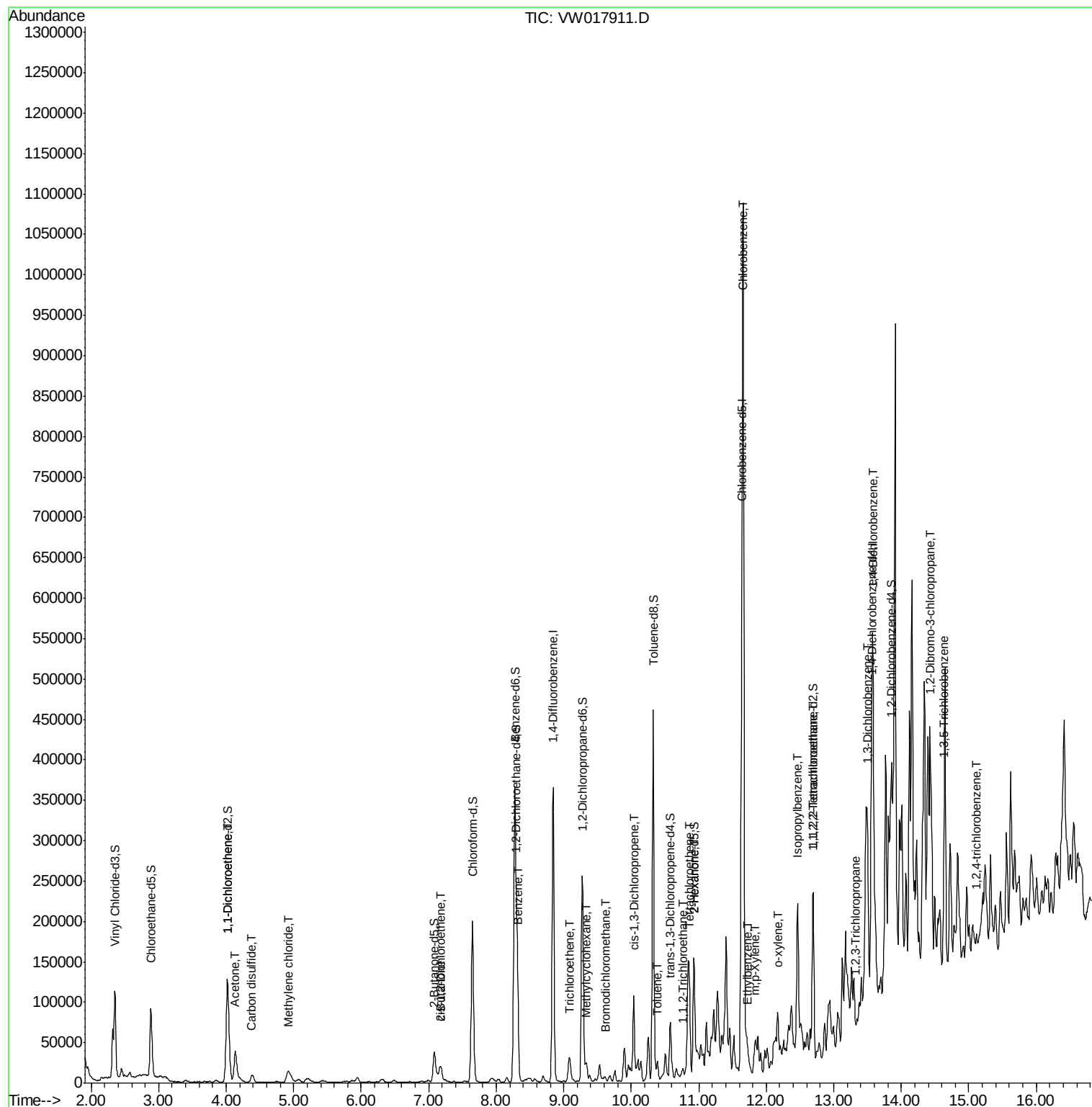
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
54) m,p-Xylene	11.84	106	9742	1.606	ug/L	89
55) o-xylene	12.17	106	3782	0.663	ug/L	83
57) Isopropylbenzene	12.46	105	111666	7.072	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.68	83	9334	3.978	ug/L #	46
59) 1,2,3-Trichloropropane	13.32	75	647	0.375	ug/L	97
63) 1,3-Dichlorobenzene	13.50	146	53187	15.088	ug/L	90
64) 1,4-Dichlorobenzene	13.58	146	136518	38.537	ug/L	93
66) 1,2-Dibromo-3-chloropropan	14.44	75	6439	31.562	ug/L #	1
67) 1,3,5-Trichlorobenzene	14.63	180	897	0.371	ug/L #	45
68) 1,2,4-trichlorobenzene	15.11	180	932	0.469	ug/L #	1

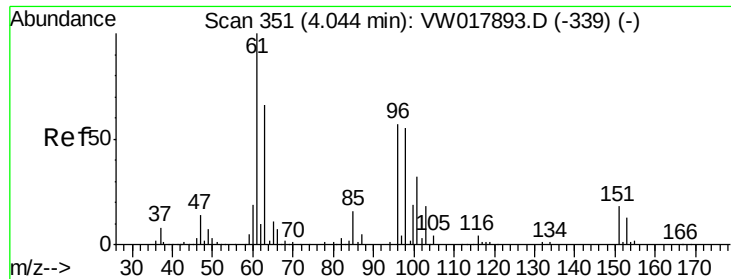
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#12

1,1-Dichloroethene

Concen: 0.302 ug/L

RT: 4.02 min Scan# 347

Delta R.T. -0.02 min

Lab File: VW017911.D

Acq: 15 Jan 2021 20:30

Instrument :
MSVOA_W
ClientSampled :

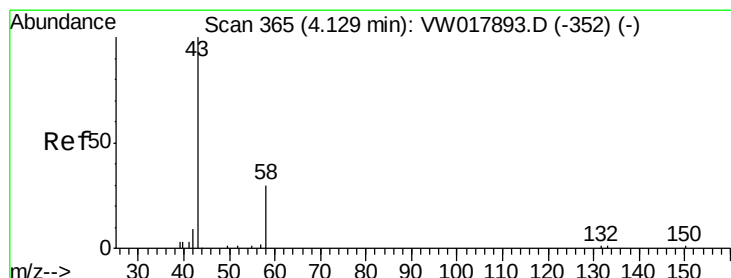
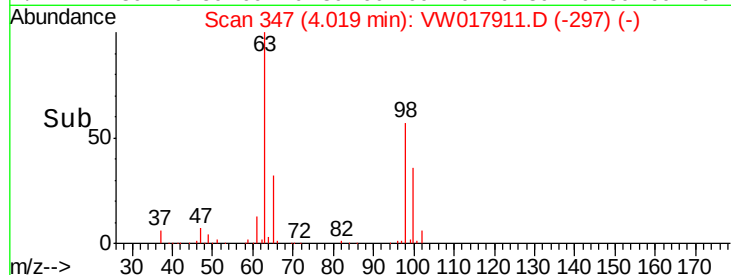
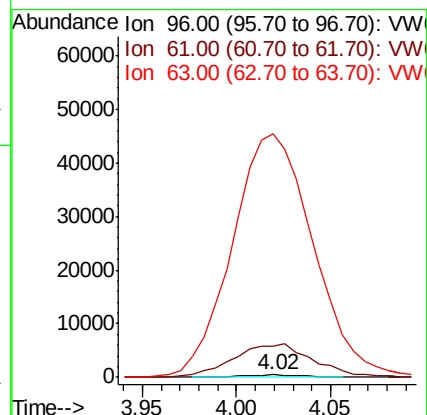
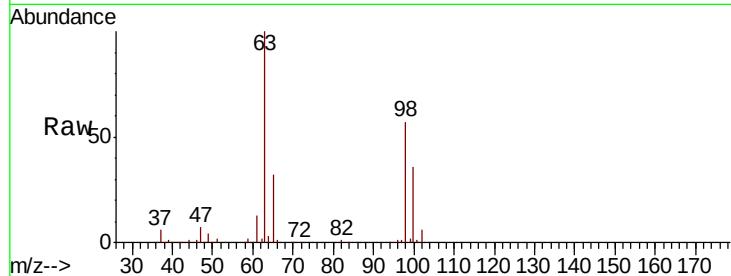
Tot Ion: 96 Resp: 1127

Ion Ratio Lower Upper

96 100

61 1234.0 112.5 208.9#

63 9486.4 83.1 154.3#



#13

Acetone

Concen: 112.868 ug/L

RT: 4.14 min Scan# 366

Delta R.T. 0.01 min

Lab File: VW017911.D

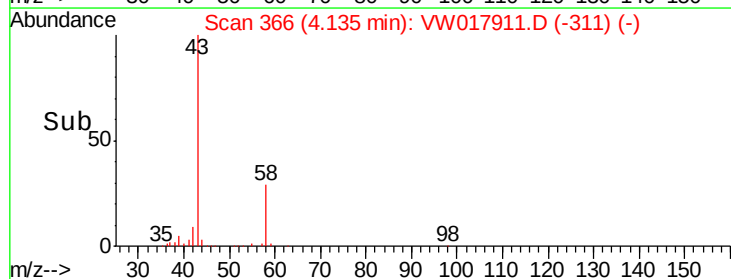
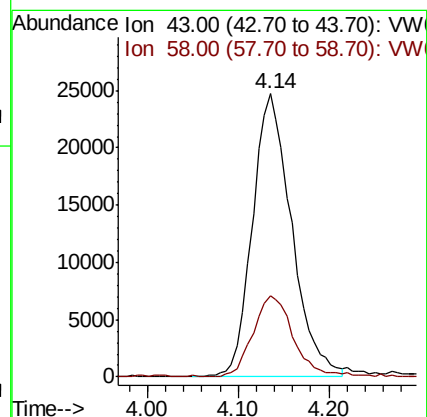
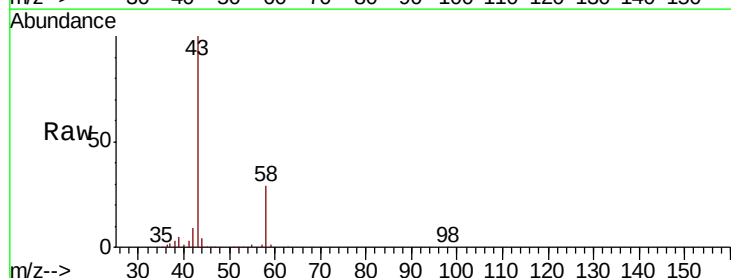
Acq: 15 Jan 2021 20:30

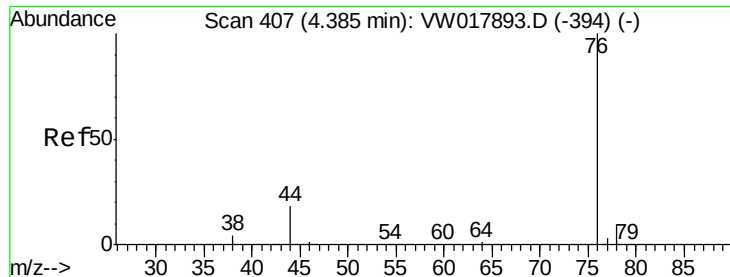
Tgt Ion: 43 Resp: 73952

Ion Ratio Lower Upper

43 100

58 28.8 0.0 68.4





#14

Carbon disulfide

Concen: 1.674 ug/L

RT: 4.38 min Scan# 406

Delta R.T. -0.01 min

Lab File: VW017911.D

Acq: 15 Jan 2021 20:30

Instrument :

MSVOA_W

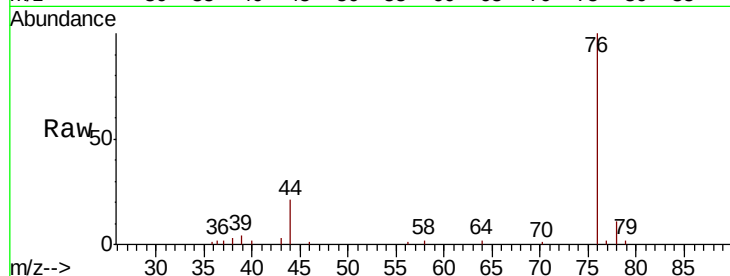
ClientSampleId :

Tot Ion: 76 Resp: 18635

Ion Ratio Lower Upper

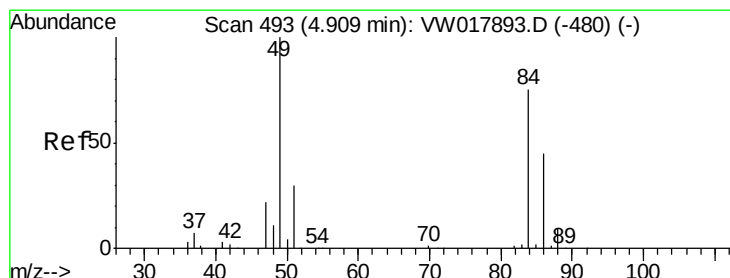
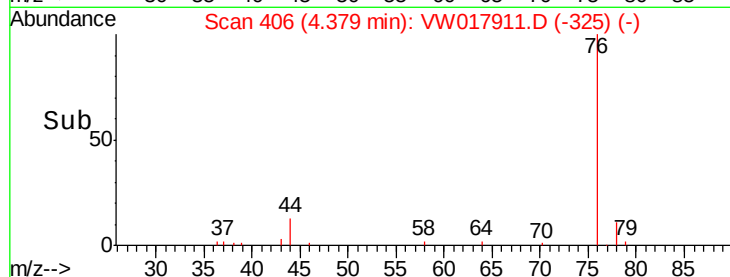
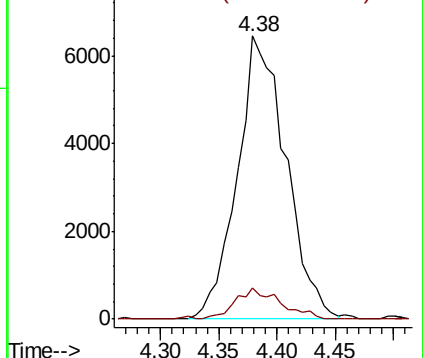
76 100

78 11.2 7.0 10.4#



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW



#16

Methylene chloride

Concen: 2.409 ug/L

RT: 4.92 min Scan# 494

Delta R.T. 0.01 min

Lab File: VW017911.D

Acq: 15 Jan 2021 20:30

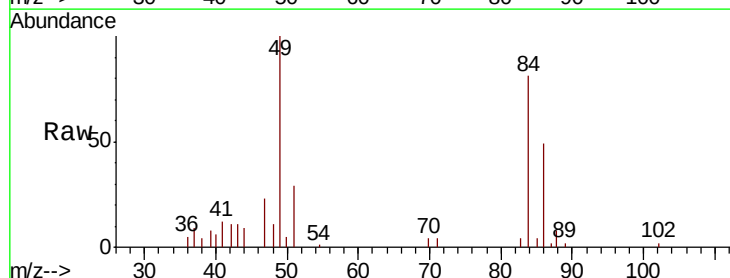
Tgt Ion: 84 Resp: 10424

Ion Ratio Lower Upper

84 100

49 122.9 81.2 150.8

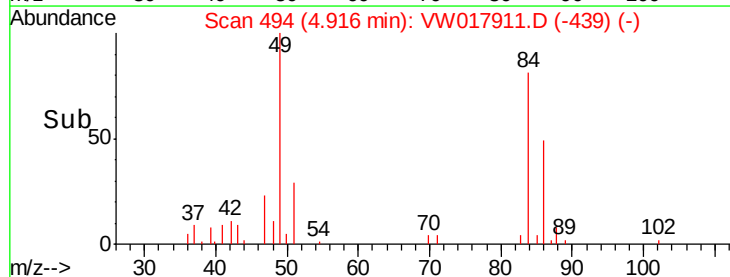
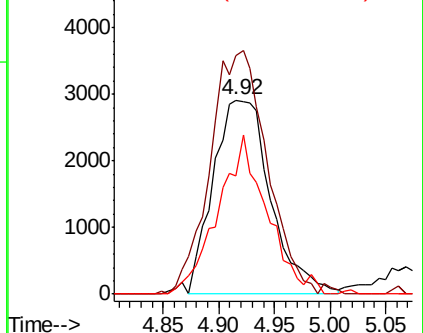
86 60.6 44.5 82.7

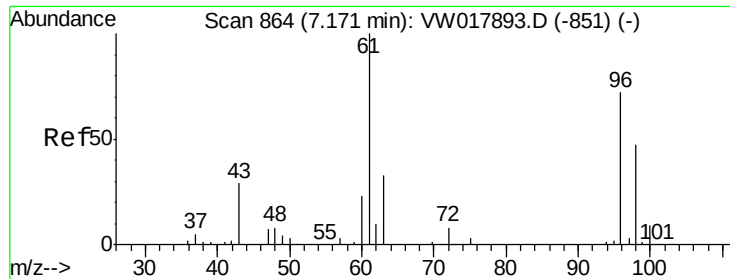


Abundance Ion 84.00 (83.70 to 84.70): VW

Ion 49.00 (48.70 to 49.70): VW

Ion 86.00 (85.70 to 86.70): VW

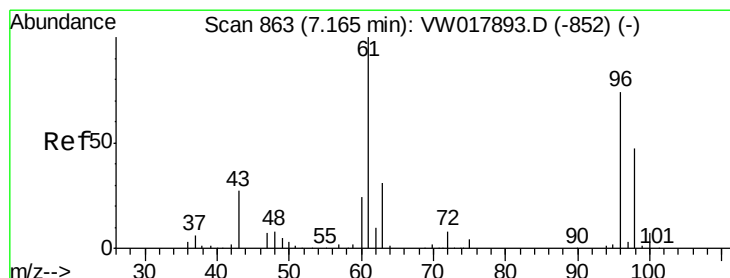
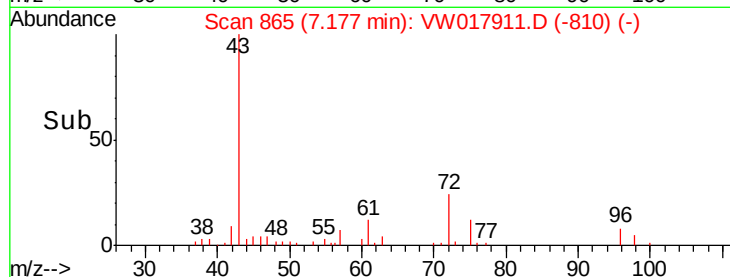
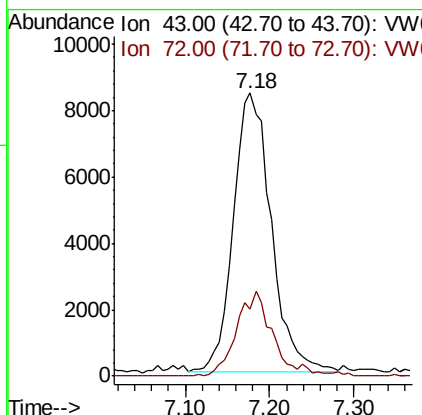
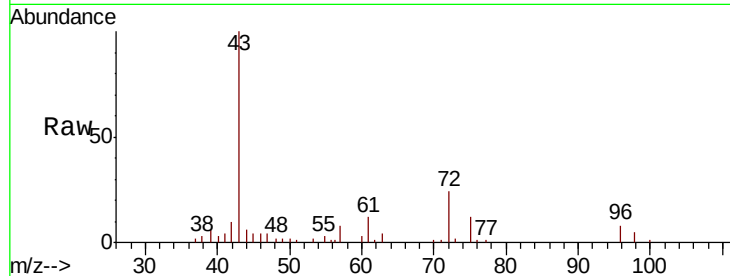




#21
2-Butanone
Concen: 28.988 ug/L
RT: 7.18 min Scan# 865
Delta R.T. 0.01 min
Lab File: VW017911.D
Acq: 15 Jan 2021 20:30

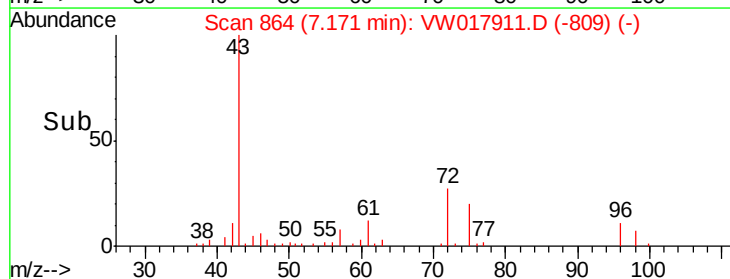
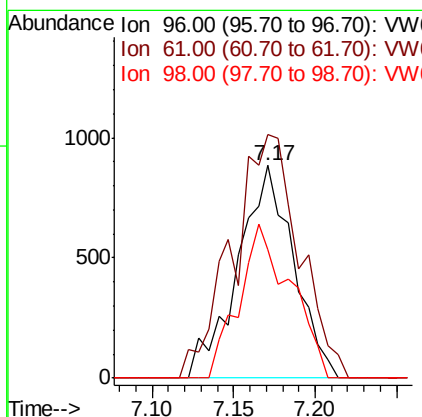
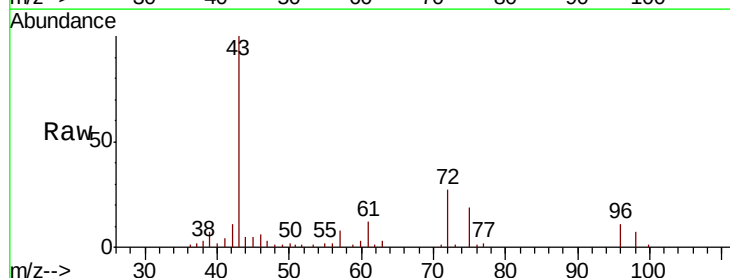
Instrument :
MSVOA_W
ClientSampled :

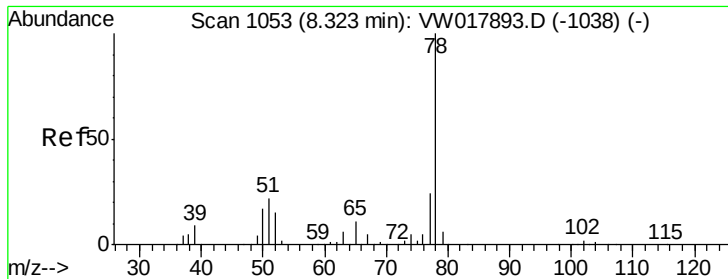
Tot Ion: 43 Resp: 25548
Ion Ratio Lower Upper
43 100
72 27.6 14.4 43.2



#22
cis-1,2-Dichloroethene
Concen: 0.496 ug/L
RT: 7.17 min Scan# 864
Delta R.T. 0.01 min
Lab File: VW017911.D
Acq: 15 Jan 2021 20:30

Tgt Ion: 96 Resp: 2098
Ion Ratio Lower Upper
96 100
61 114.5 84.6 157.2
98 60.7 44.7 82.9





#34

Benzene

Concen: 1.875 ug/L

RT: 8.32 min Scan# 1053

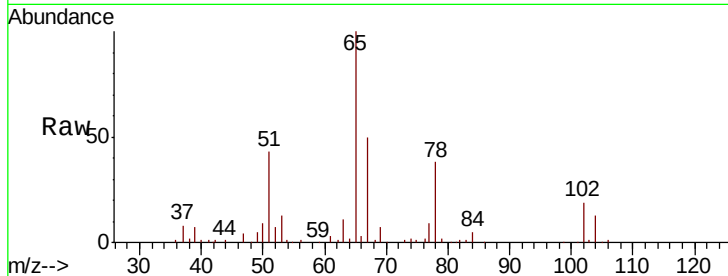
Delta R.T. 0.00 min

Lab File: VW017911.D

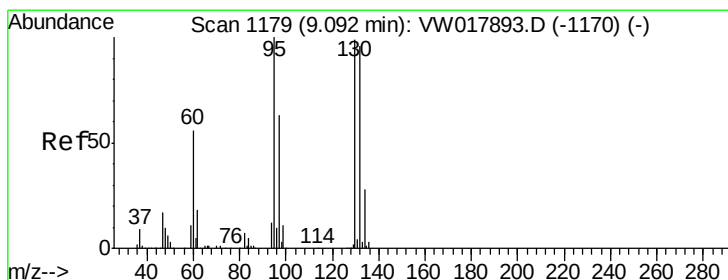
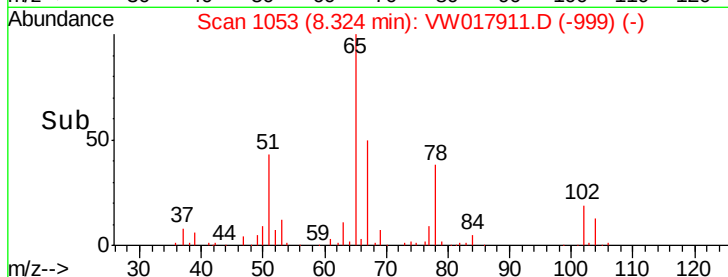
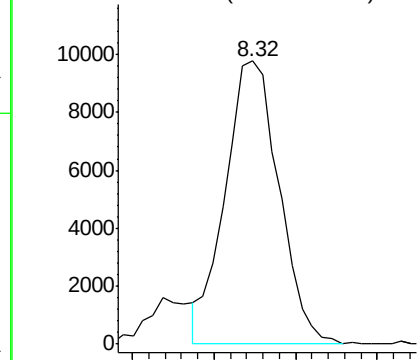
Acq: 15 Jan 2021 20:30

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion: 78 Resp: 22466



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 2.116 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. 0.00 min

Lab File: VW017911.D

Acq: 15 Jan 2021 20:30

Tgt Ion: 95 Resp: 7016

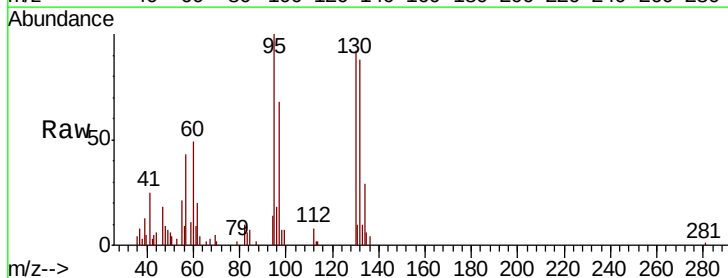
Ion Ratio Lower Upper

95 100

97 86.7 45.0 83.6#

132 94.0 71.0 131.8

130 100.1 75.6 140.4

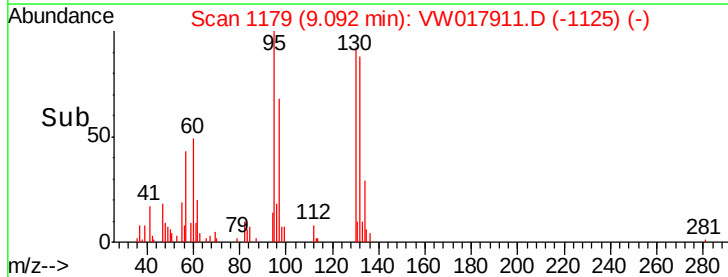
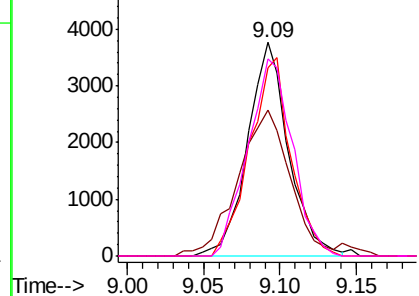


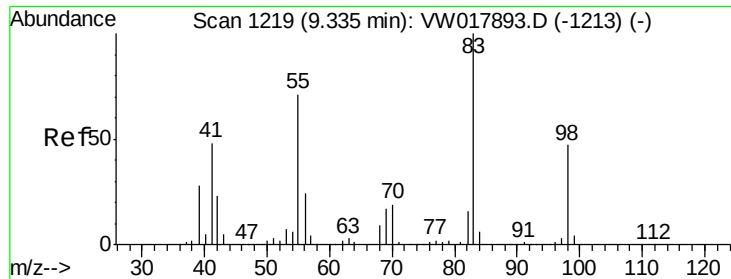
Abundance Ion 95.00 (94.70 to 95.70): VW

Ion 97.00 (96.70 to 97.70): VW

Ion 132.00 (131.70 to 132.70): V

Ion 130.00 (129.70 to 130.70): V

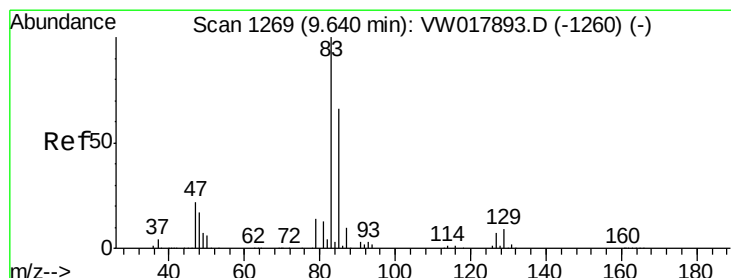
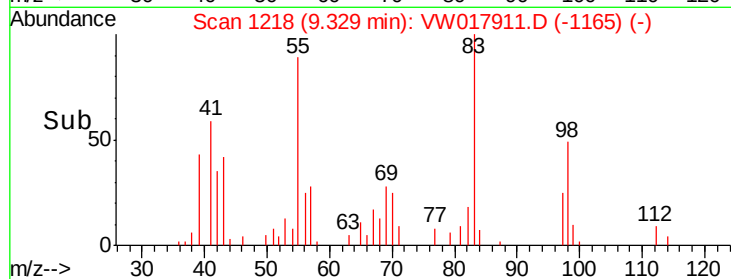
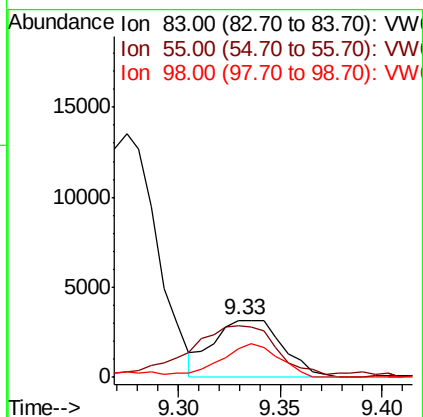
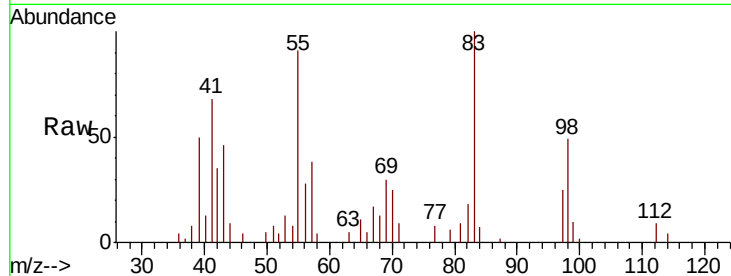




#36
Methylcyclohexane
Concen: 1.294 ug/L
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW017911.D
Acq: 15 Jan 2021 20:30

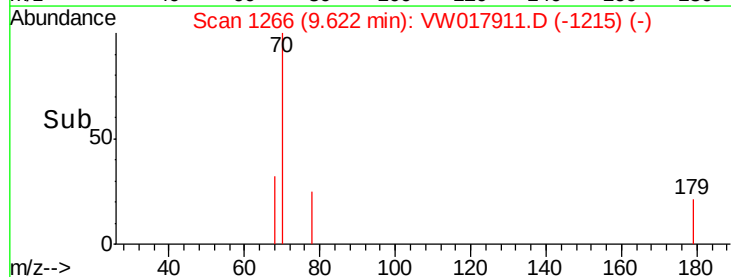
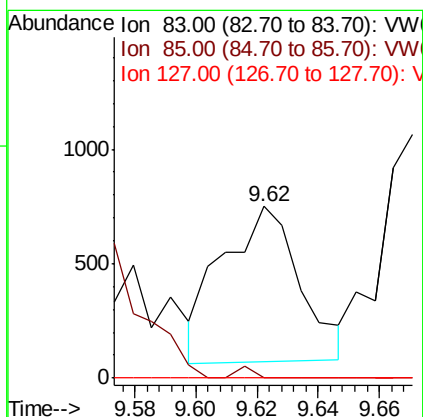
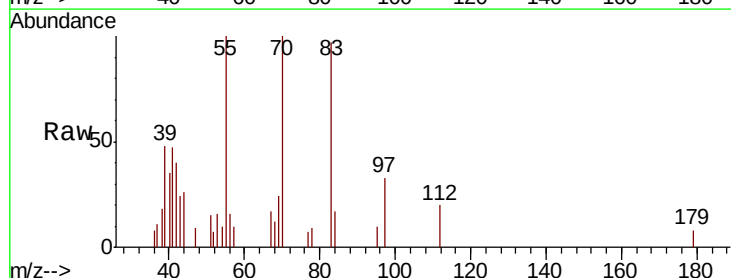
Instrument :
MSVOA_W
ClientSampled :

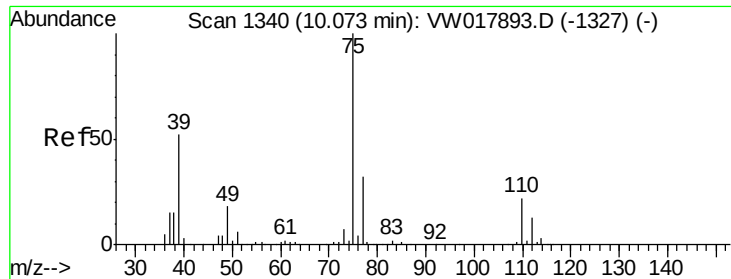
Tot Ion: 83 Resp: 7502
Ion Ratio Lower Upper
83 100
55 118.9 59.4 89.0#
98 49.8 40.7 61.1



#41
Bromodichloromethane
Concen: 0.311 ug/L
RT: 9.62 min Scan# 1266
Delta R.T. -0.02 min
Lab File: VW017911.D
Acq: 15 Jan 2021 20:30

Tgt Ion: 83 Resp: 1206
Ion Ratio Lower Upper
83 100
85 0.0 46.8 86.8#
127 0.0 7.6 11.4#





#42

cis-1,3-Dichloropropene

Concen: 0.682 ug/L

RT: 10.04 min Scan# 1334

Delta R.T. -0.04 min

Lab File: VW017911.D

Acq: 15 Jan 2021 20:30

Instrument :

MSVOA_W

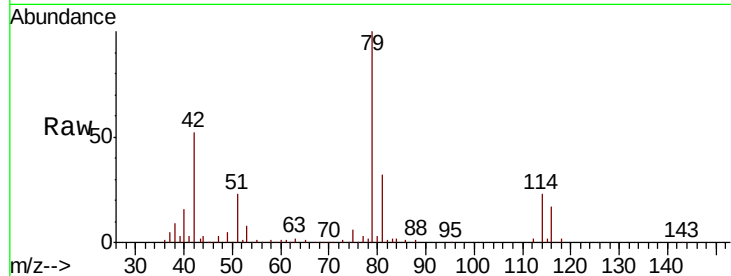
ClientSampled :

Tot Ion: 75 Resp: 3080

Ion Ratio Lower Upper

75 100

77 48.4 22.7 42.3#



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

10.04

1500

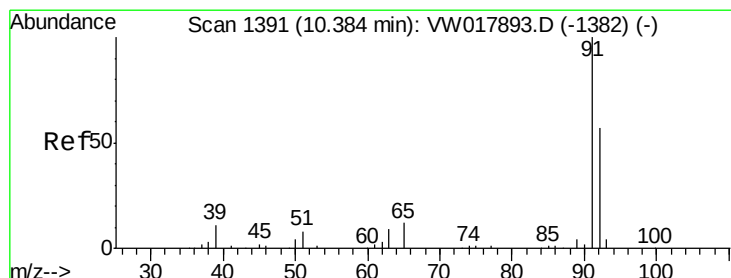
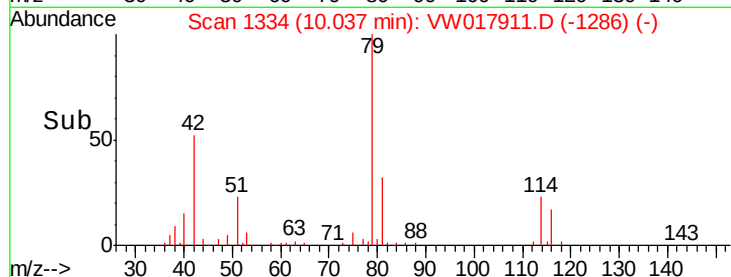
1000

500

0

10.00 10.05

Time-->



#44

Toluene

Concen: 1.255 ug/L

RT: 10.39 min Scan# 1392

Delta R.T. 0.01 min

Lab File: VW017911.D

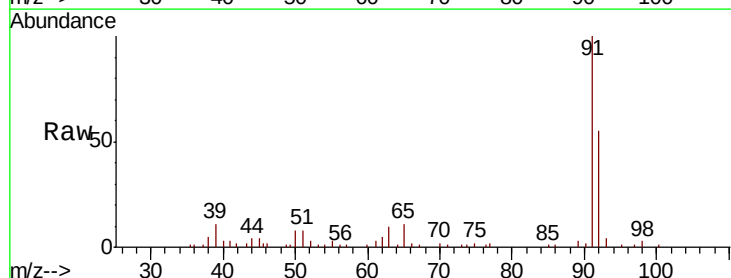
Acq: 15 Jan 2021 20:30

Tgt Ion: 91 Resp: 17146

Ion Ratio Lower Upper

91 100

92 54.8 41.6 77.3



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 92.00 (91.70 to 92.70): VW

10.39

10000

8000

6000

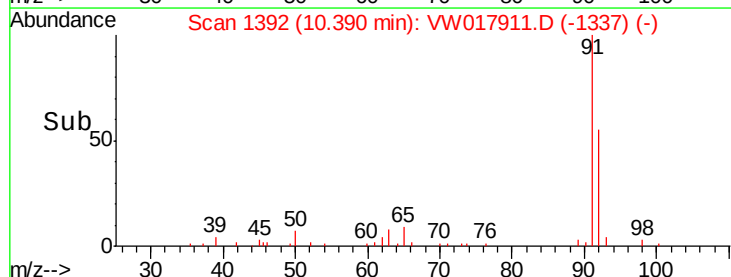
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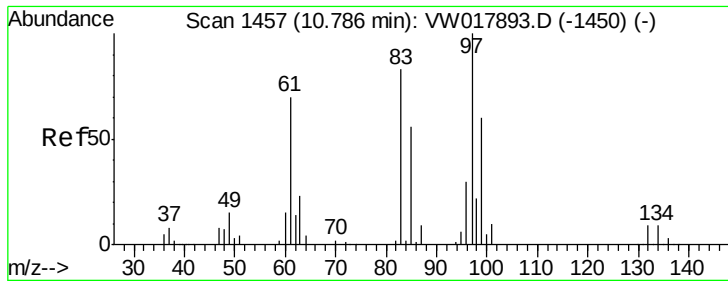
2000

0

10.35 10.40 10.45

Time-->

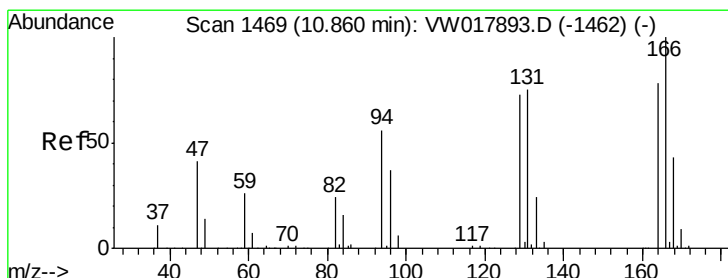
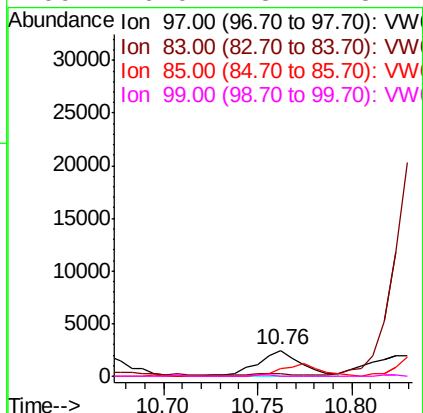
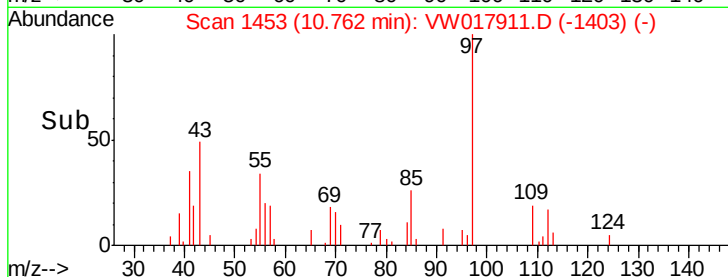
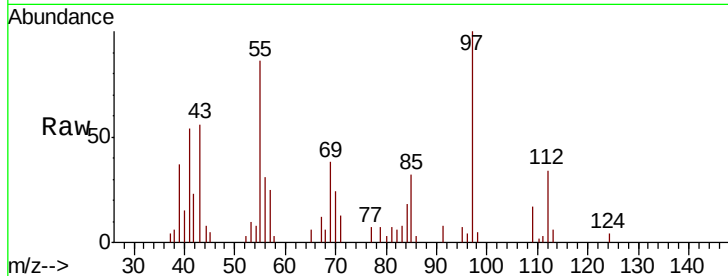




#46
 1,1,2-Trichloroethane
 Concen: 1.910 ug/L
 RT: 10.76 min Scan# 1453
 Delta R.T. -0.02 min
 Lab File: VW017911.D
 Acq: 15 Jan 2021 20:30

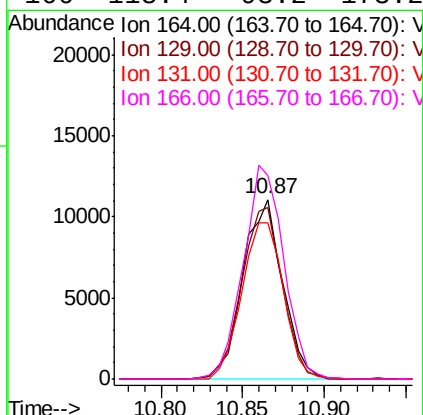
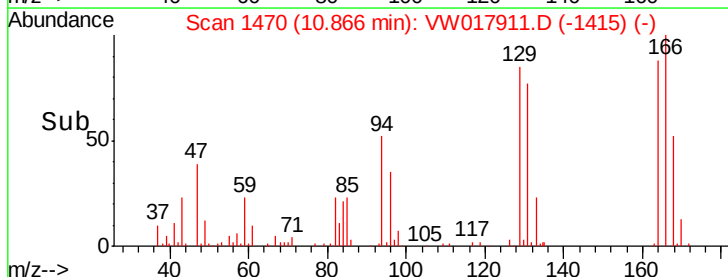
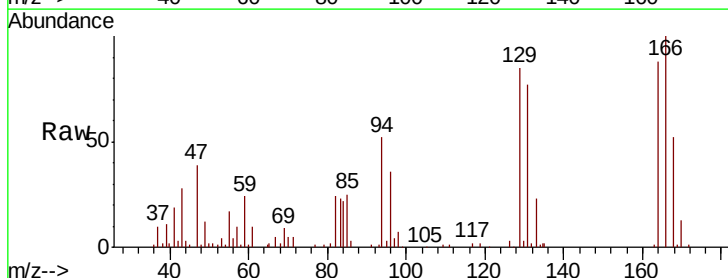
Instrument :
 MSVOA_W
 ClientSampleId :

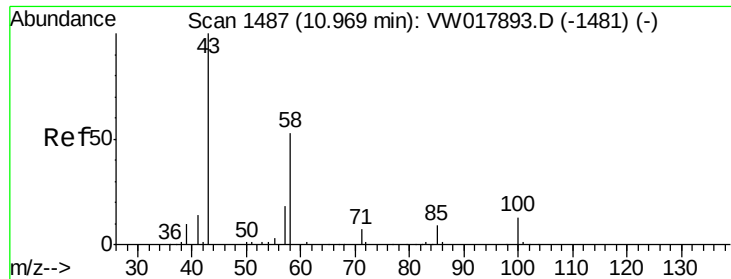
Tot Ion: 97 Resp: 4016
 Ion Ratio Lower Upper
 97 100
 83 7.7 58.5 108.7#
 85 31.5 37.8 70.2#
 99 0.0 43.7 81.1#



#47
 Tetrachloroethene
 Concen: 7.272 ug/L
 RT: 10.87 min Scan# 1470
 Delta R.T. 0.01 min
 Lab File: VW017911.D
 Acq: 15 Jan 2021 20:30

Tgt Ion: 164 Resp: 18855
 Ion Ratio Lower Upper
 164 100
 129 95.8 67.6 125.6
 131 87.0 65.2 121.2
 166 113.4 93.2 173.2

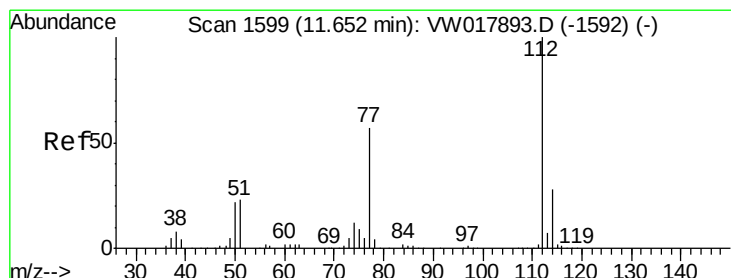
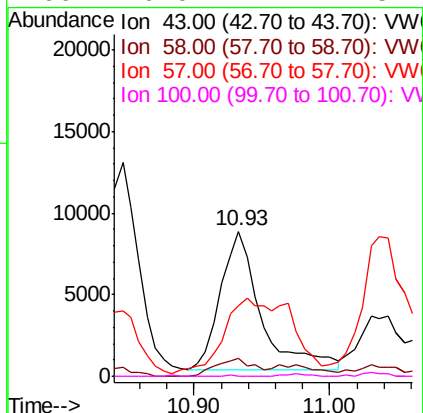
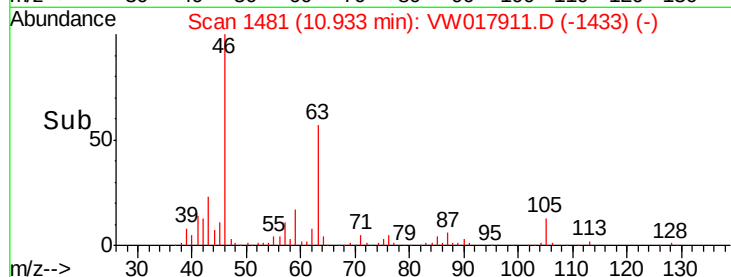
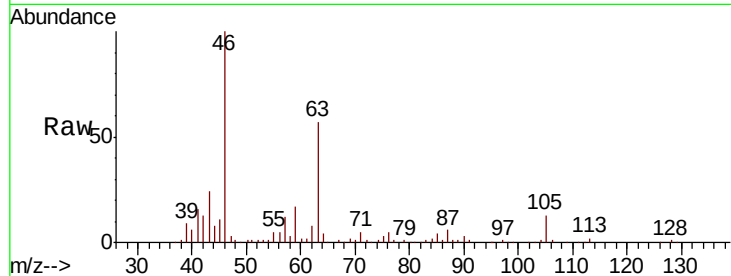




#49
2-Hexanone
Concen: 18.152 ug/L
RT: 10.93 min Scan# 1481
Delta R.T. -0.04 min
Lab File: VW017911.D
Acq: 15 Jan 2021 20:30

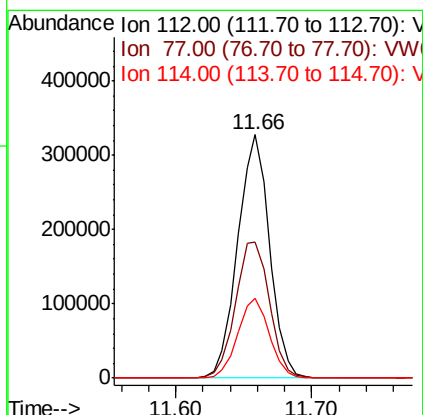
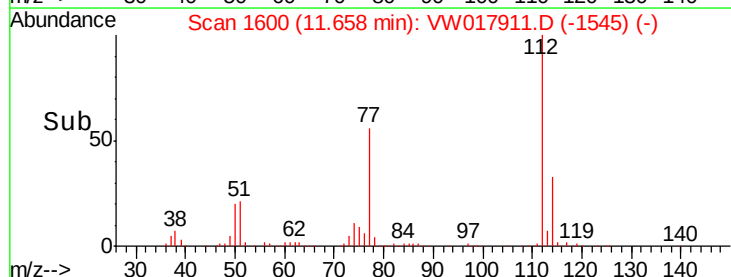
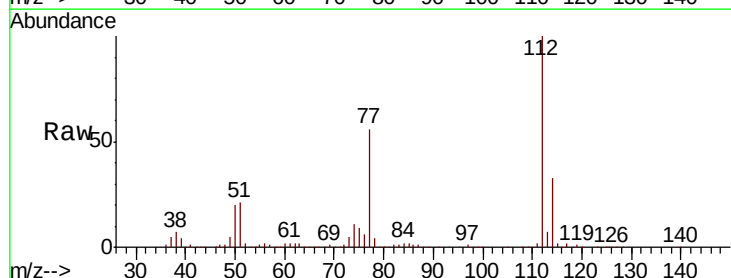
Instrument :
MSVOA_W
ClientSampleId :

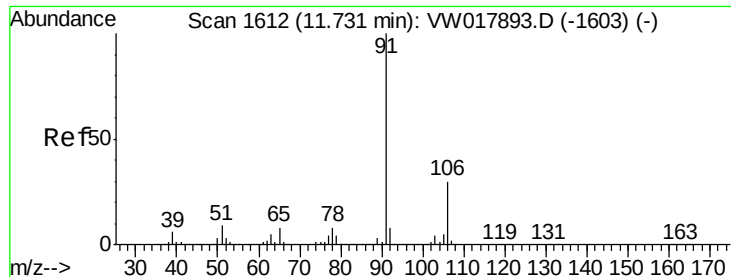
Tot Ion: 43 Resp: 17698
Ion Ratio Lower Upper
43 100
58 11.8 51.3 76.9#
57 60.0 15.0 22.6#
100 0.0 12.2 18.2#



#52
Chlorobenzene
Concen: 62.804 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. 0.01 min
Lab File: VW017911.D
Acq: 15 Jan 2021 20:30

Tgt Ion: 112 Resp: 535656
Ion Ratio Lower Upper
112 100
77 56.0 42.6 64.0
114 32.7 21.6 40.2

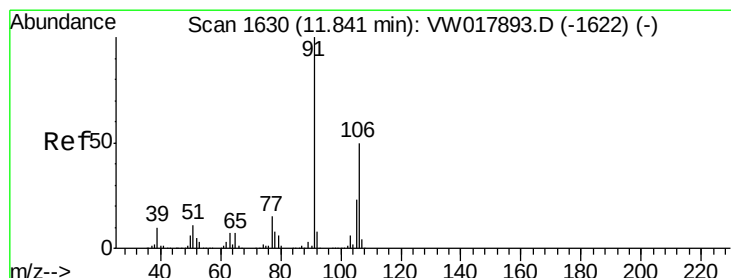
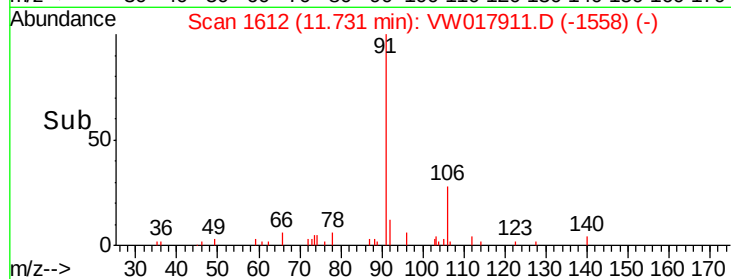
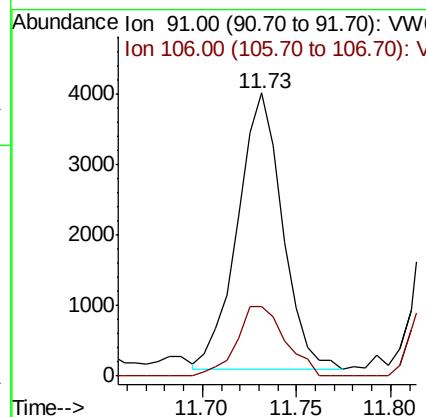
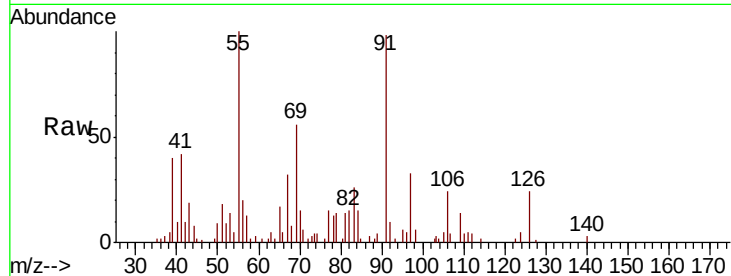




#53
Ethylbenzene
Concen: 0.418 ug/L
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW017911.D
Acq: 15 Jan 2021 20:30

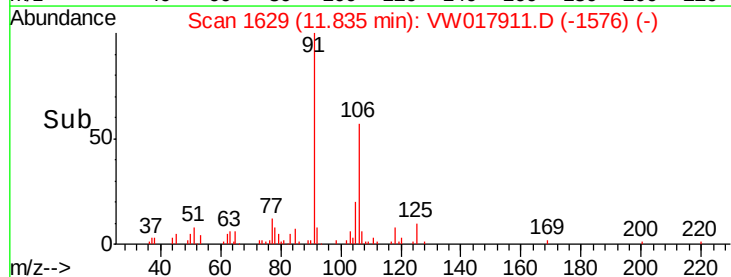
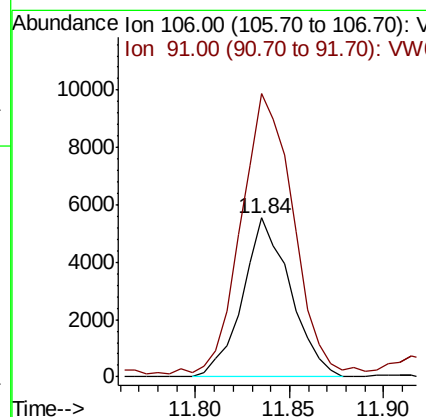
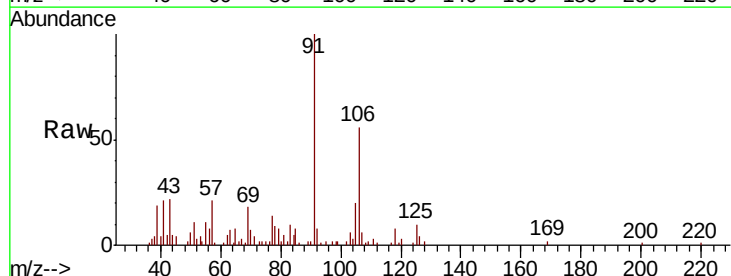
Instrument :
MSVOA_W
ClientSampleId :

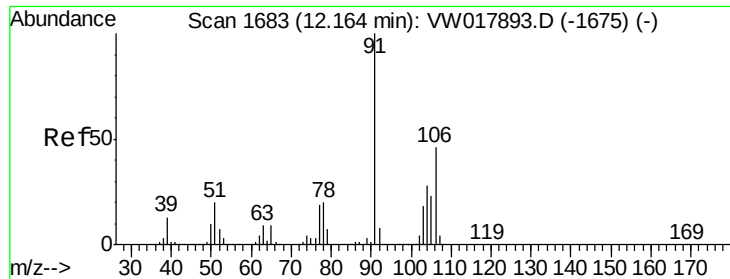
Tot Ion: 91 Resp: 6485
Ion Ratio Lower Upper
91 100
106 24.5 21.1 39.1



#54
m,p-Xylene
Concen: 1.606 ug/L
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW017911.D
Acq: 15 Jan 2021 20:30

Tgt Ion: 106 Resp: 9742
Ion Ratio Lower Upper
106 100
91 178.2 136.4 253.4





#55

o-xylene

Concen: 0.663 ug/L

RT: 12.17 min Scan# 1684

Delta R.T. 0.01 min

Lab File: VW017911.D

Acq: 15 Jan 2021 20:30

Instrument :

MSVOA_W

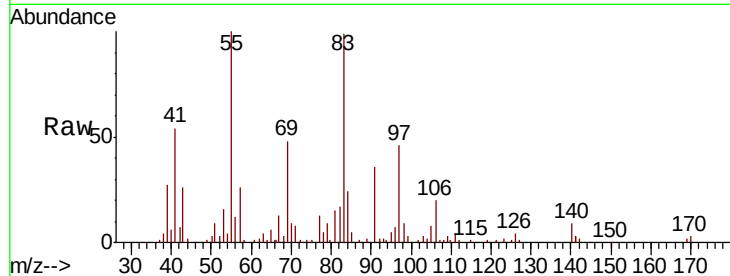
ClientSampled :

Tot Ion:106 Resp: 3782

Ion Ratio Lower Upper

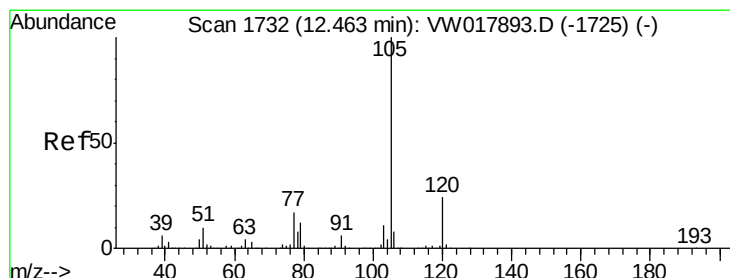
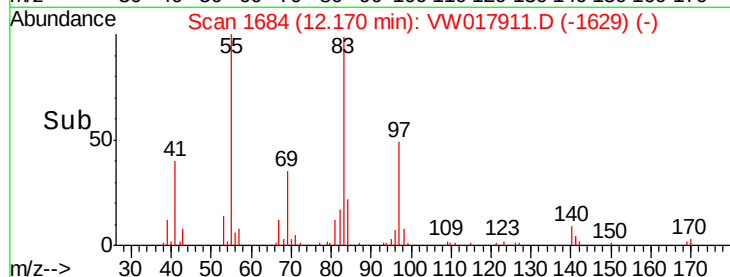
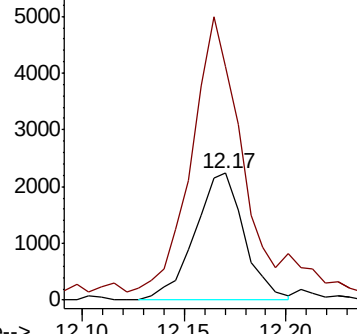
106 100

91 183.6 147.6 274.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW



#57

Isopropylbenzene

Concen: 7.072 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW017911.D

Acq: 15 Jan 2021 20:30

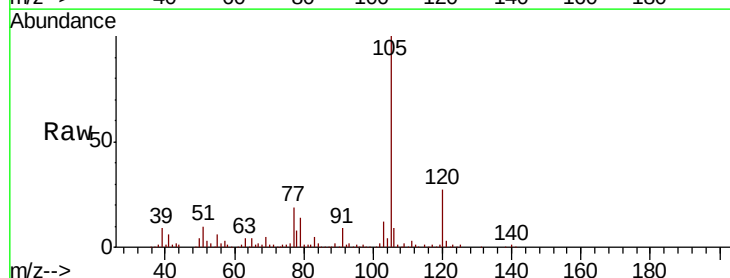
Tgt Ion:105 Resp: 111666

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.2

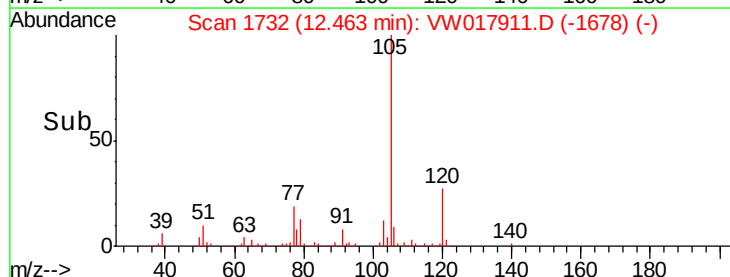
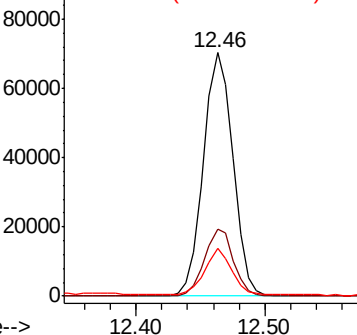
77 17.1 12.1 18.1

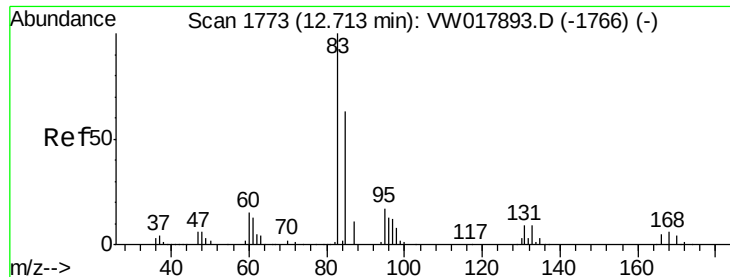


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VW





#58

1,1,2,2-Tetrachloroethane

Concen: 3.978 ug/L

RT: 12.68 min Scan# 1768

Delta R.T. -0.03 min

Lab File: VW017911.D

Acq: 15 Jan 2021 20:30

Instrument :

MSVOA_W

ClientSampled :

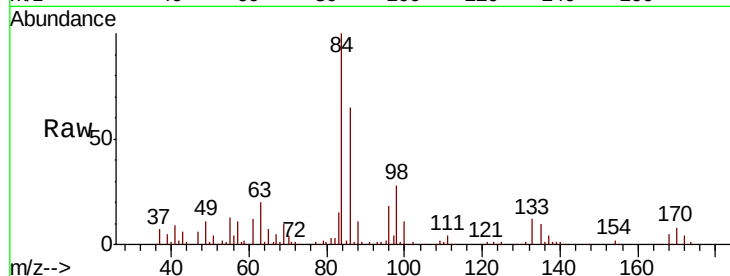
Tot Ion: 83 Resp: 9334

Ion Ratio Lower Upper

83 100

85 15.5 45.3 84.1#

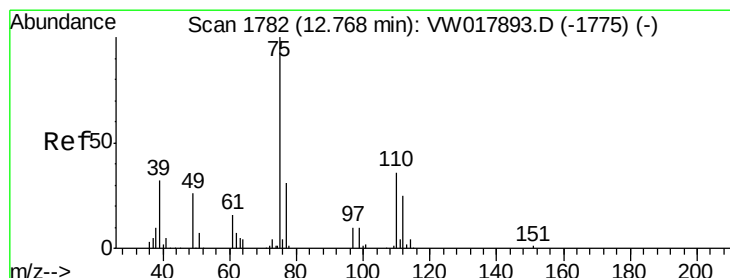
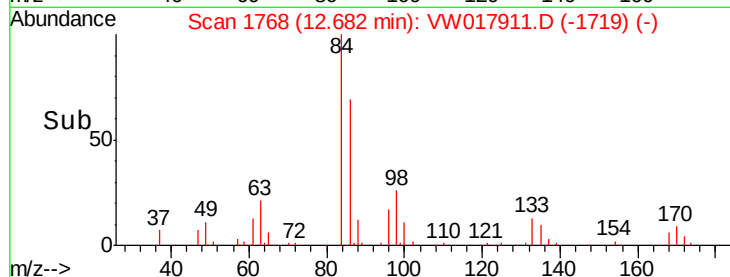
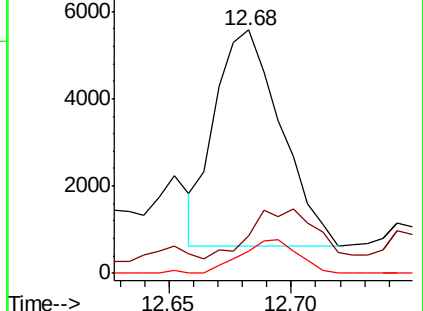
131 9.0 8.3 12.5



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 131.00 (130.70 to 131.70): VW



#59

1,2,3-Trichloropropane

Concen: 0.375 ug/L

RT: 13.32 min Scan# 1873

Delta R.T. 0.55 min

Lab File: VW017911.D

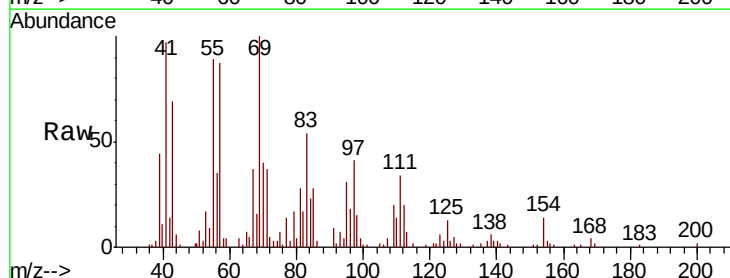
Acq: 15 Jan 2021 20:30

Tgt Ion: 75 Resp: 647

Ion Ratio Lower Upper

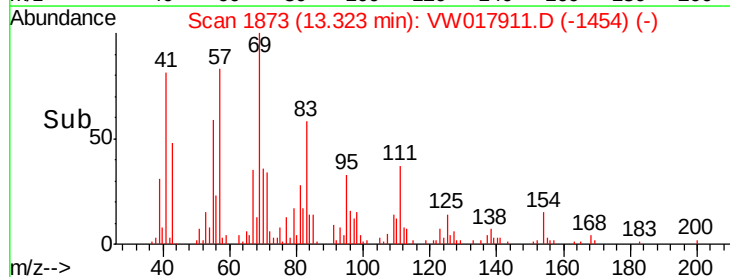
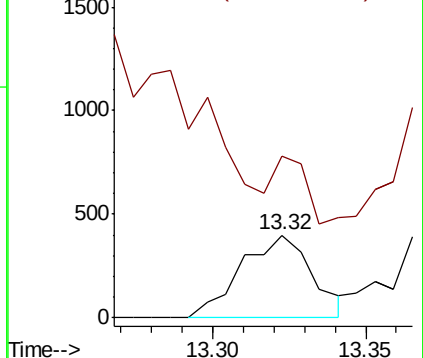
75 100

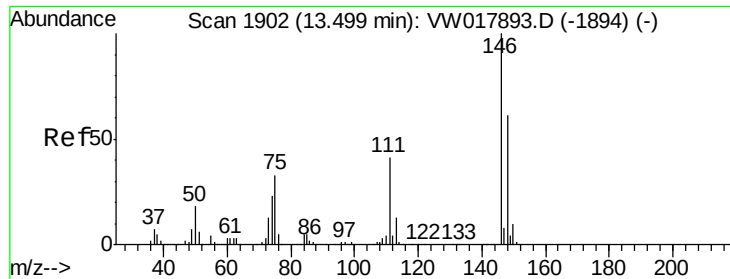
77 35.1 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW

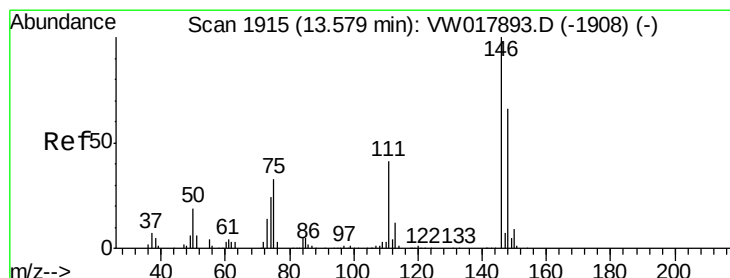
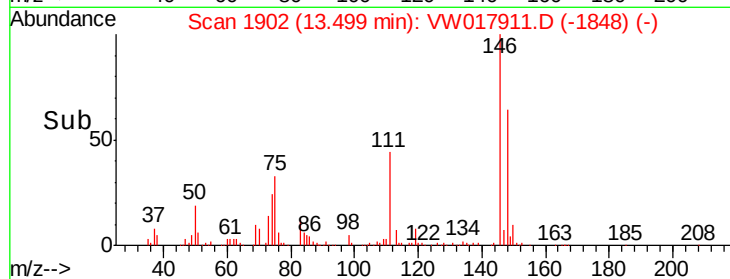
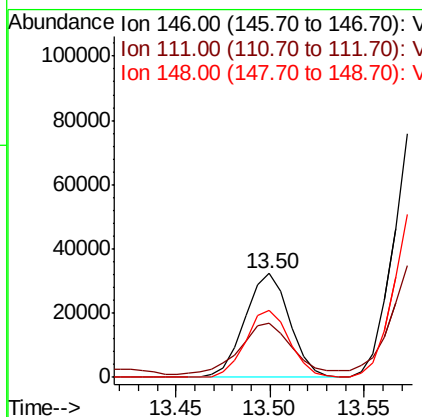
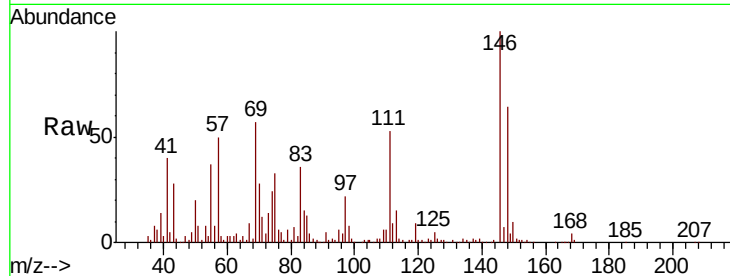




#63
 1,3-Dichlorobenzene
 Concen: 15.088 ug/L
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW017911.D
 Acq: 15 Jan 2021 20:30

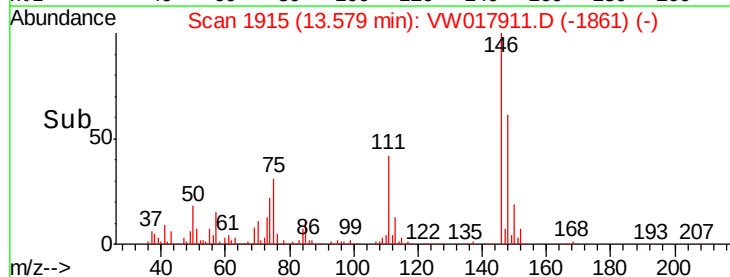
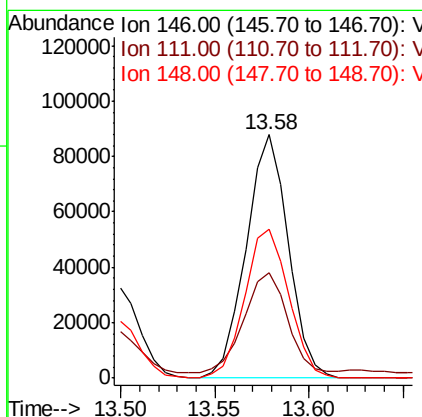
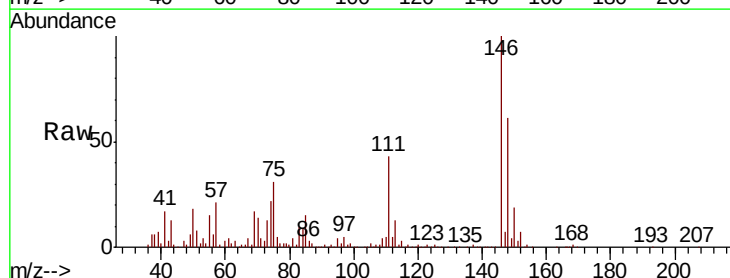
Instrument :
 MSVOA_W
 ClientSampled :

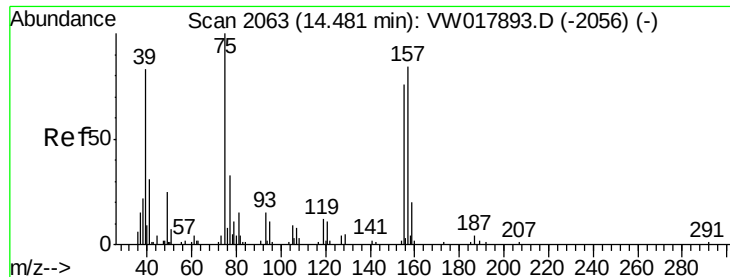
Tot Ion:146 Resp: 53187
 Ion Ratio Lower Upper
 146 100
 111 52.6 28.5 52.9
 148 64.0 47.8 88.8



#64
 1,4-Dichlorobenzene
 Concen: 38.537 ug/L
 RT: 13.58 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VW017911.D
 Acq: 15 Jan 2021 20:30

Tgt Ion:146 Resp: 136518
 Ion Ratio Lower Upper
 146 100
 111 43.5 27.7 51.5
 148 61.4 47.0 87.2

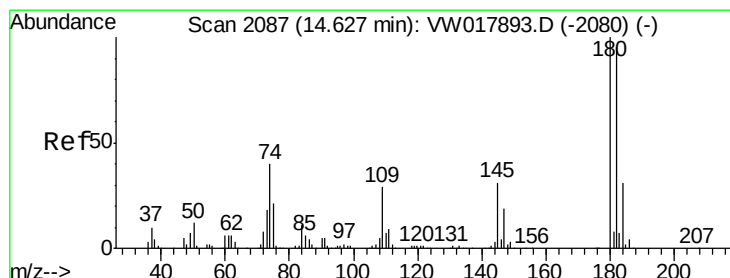
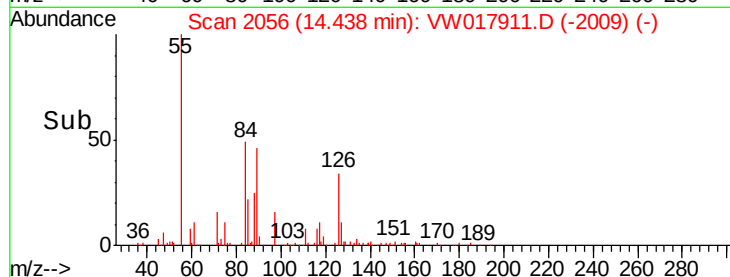
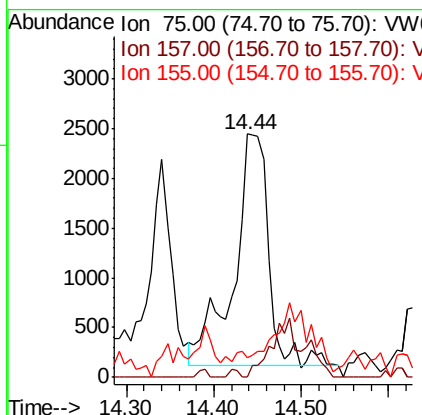
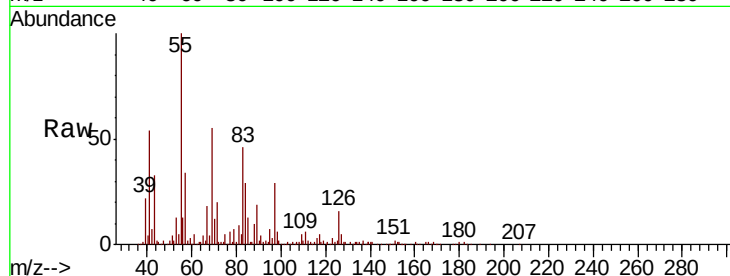




#66
 1,2-Dibromo-3-chloropropane
 Concen: 31.562 ug/L
 RT: 14.44 min Scan# 2056
 Delta R.T. -0.04 min
 Lab File: VW017911.D
 Acq: 15 Jan 2021 20:30

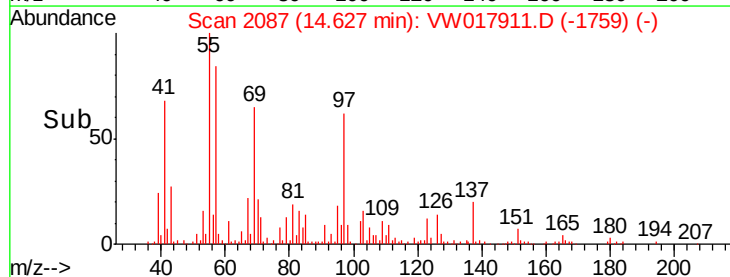
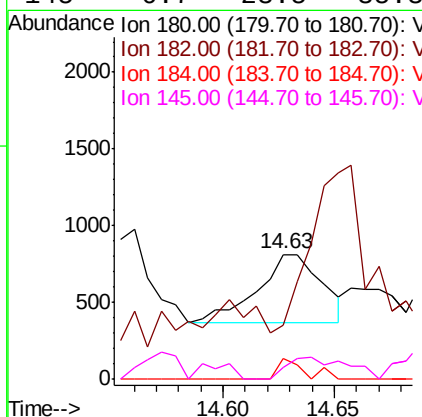
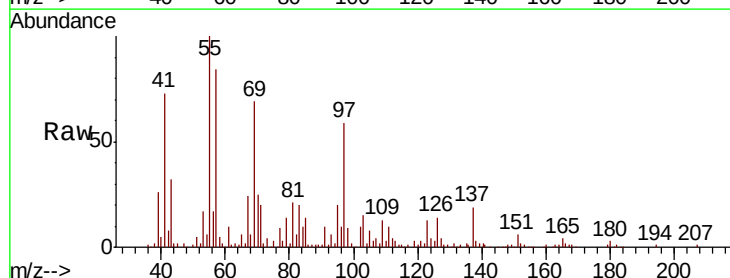
Instrument :
 MSVOA_W
 ClientSampleId :

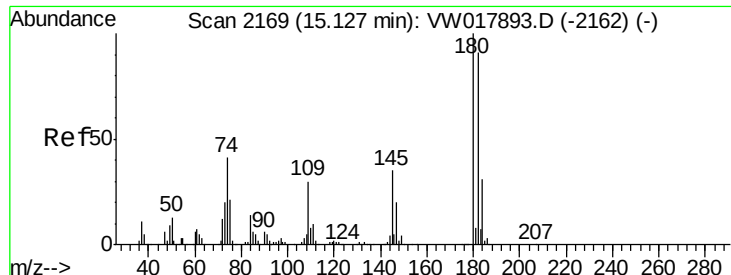
Tot Ion: 75 Resp: 6439
 Ion Ratio Lower Upper
 75 100
 157 0.0 99.9 149.9#
 155 8.1 71.4 107.0#



#67
 1,3,5-Trichlorobenzene
 Concen: 0.371 ug/L
 RT: 14.63 min Scan# 2087
 Delta R.T. 0.00 min
 Lab File: VW017911.D
 Acq: 15 Jan 2021 20:30

Tgt Ion: 180 Resp: 897
 Ion Ratio Lower Upper
 180 100
 182 34.3 77.0 115.6#
 184 9.1 24.2 36.4#
 145 6.7 23.5 35.3#

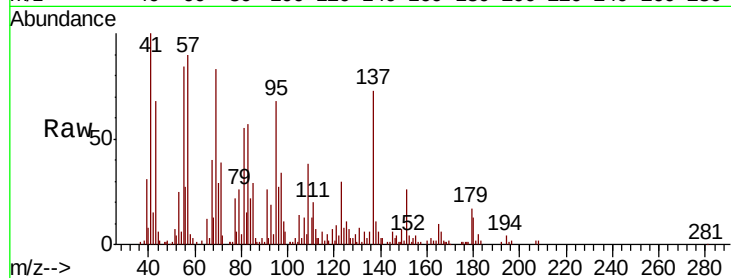




#68
 1,2,4-trichlorobenzene
 Concen: 0.469 ug/L
 RT: 15.11 min Scan# 2166
 Delta R.T. -0.02 min
 Lab File: VW017911.D
 Acq: 15 Jan 2021 20:30

Instrument :
 MSVOA_W
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	27.3	71.3	106.9#
145	205.9	24.0	36.0#



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

