

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW071519\
 Data File : VW011254.D
 Acq On : 15 Jul 2019 11:34
 Operator : SY/VA
 Sample : K3798-01
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 A52S4

Quant Time: Jul 16 05:15:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070219S.M
 Quant Title : VOC Analysis
 QLast Update : Tue Jul 16 05:02:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	379726	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	339745	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.56	152	167651	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	127846	22.05	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	88.20%
7) Chloroethane-d5	2.88	69	91863	22.58	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	90.32%
10) 1,1-Dichloroethene-d2	4.01	63	257999	21.01	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	84.04%
20) 2-Butanone-d5	7.07	46	107690	47.15	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	94.30%
24) Chloroform-d	7.65	84	243994	23.44	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	93.76%
26) 1,2-Dichloroethane-d4	8.30	65	149296	23.29	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	93.16%
29) Benzene-d6	8.27	84	498477	23.82	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	95.28%
33) 1,2-Dichloropropane-d6	9.27	67	163511	23.99	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	95.96%
37) Toluene-d8	10.32	98	435370	23.34	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	93.36%
38) trans-1,3-Dichloropropene-	10.57	79	67379	23.25	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	93.00%
39) 2-Hexanone-d5	10.93	63	71879	45.99	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	91.98%
48) 1,1,2,2-Tetrachloroethane-	12.69	84	130953	23.23	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	92.92%
61) 1,2-Dichlorobenzene-d4	13.86	152	151096	23.48	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	93.92%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.01	85	46739	10.008	ug/L	100
3) Chloromethane	2.21	50	61677	12.164	ug/L	97
5) Vinyl chloride	2.36	62	164322	24.830	ug/L	99
6) Bromomethane	2.78	94	46004	14.858	ug/L	99
8) Chloroethane	2.92	64	29749	8.894	ug/L	99
9) Trichlorofluoromethane	3.24	101	24751	10.923	ug/L	99
11) 1,1,2-Trichloro-1,2,2-trif	4.06	101	113197	22.421	ug/L	98
12) 1,1-Dichloroethene	4.04	96	79385	15.908	ug/L	93
15) Methyl Acetate	4.66	43	89051	24.531	ug/L	99
16) Methylene chloride	4.92	84	118410	21.220	ug/L	97
17) Methyl tert-butyl Ether	5.42	73	329521	42.581	ug/L	99
21) 2-Butanone	7.16	43	214744	74.565	ug/L	97
25) Chloroform	7.67	83	191361	19.735	ug/L	99
30) Cyclohexane	7.95	56	225279	21.809	ug/L	99
34) Benzene	8.32	78	912617	42.980	ug/L	100
35) Trichloroethene	9.09	95	288353	53.814	ug/L	100
44) Toluene	10.38	91	1159828	52.772	ug/L	99

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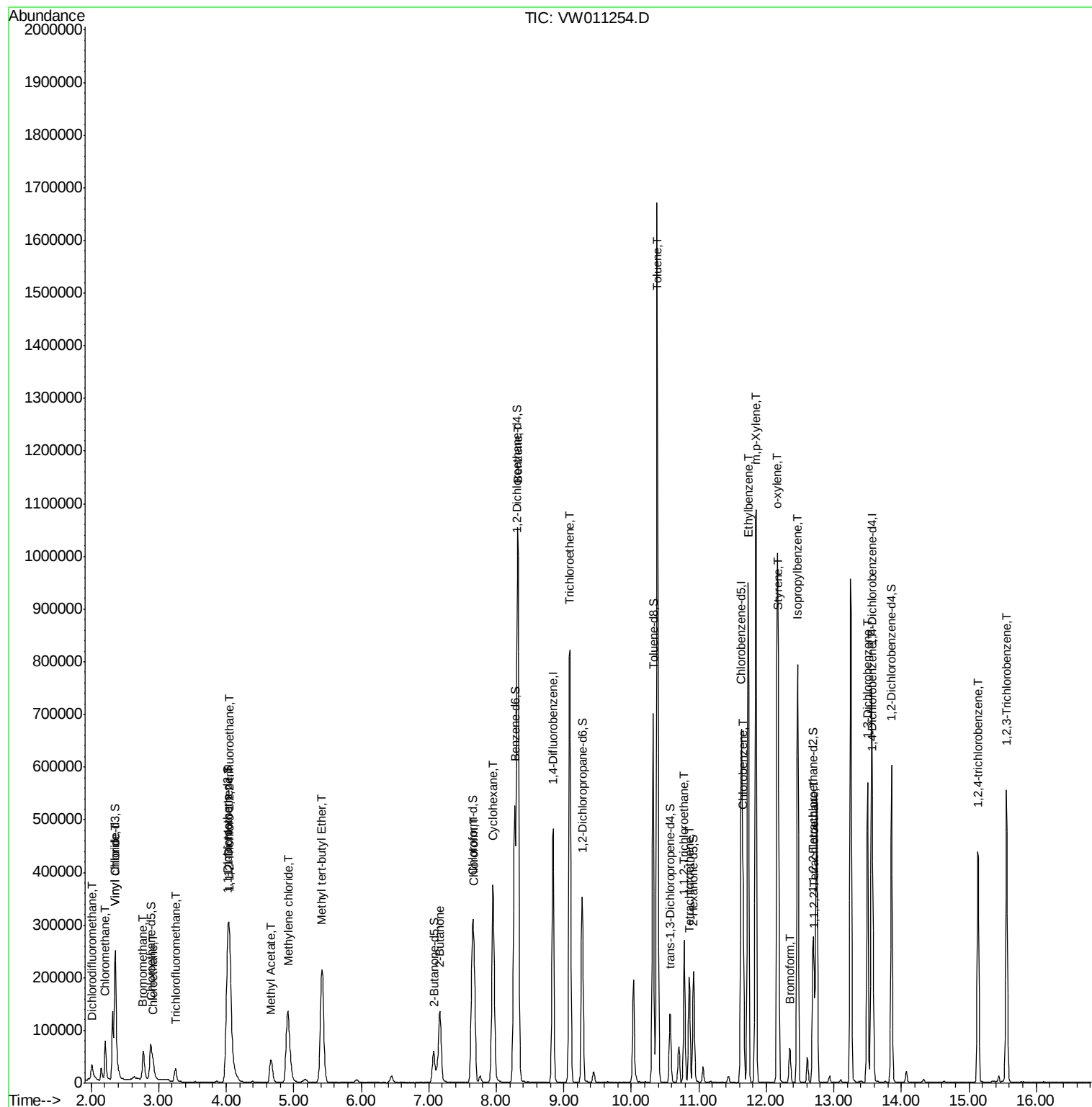
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) 1,1,2-Trichloroethane	10.79	97	80340	19.939	ug/L	97
47) Tetrachloroethene	10.86	164	43808	10.818	ug/L	93
52) Chlorobenzene	11.66	112	173877	12.950	ug/L	99
53) Ethylbenzene	11.73	91	640744	25.702	ug/L	99
54) m,p-Xylene	11.85	106	282220	31.181	ug/L	98
55) o-xylene	12.16	106	223976	26.013	ug/L	100
56) Styrene	12.18	104	161225	10.915	ug/L	98
57) Isopropylbenzene	12.46	105	492438	20.951	ug/L	100
58) 1,1,2,2-Tetrachloroethane	12.71	83	61873	11.543	ug/L	94
62) Bromoform	12.35	173	29220	11.695	ug/L	99
63) 1,3-Dichlorobenzene	13.50	146	212465	20.599	ug/L	99
64) 1,4-Dichlorobenzene	13.58	146	107322	10.164	ug/L	99
68) 1,2,4-trichlorobenzene	15.14	180	134329	20.517	ug/L	99
70) 1,2,3-Trichlorobenzene	15.56	180	182276	30.428	ug/L	99

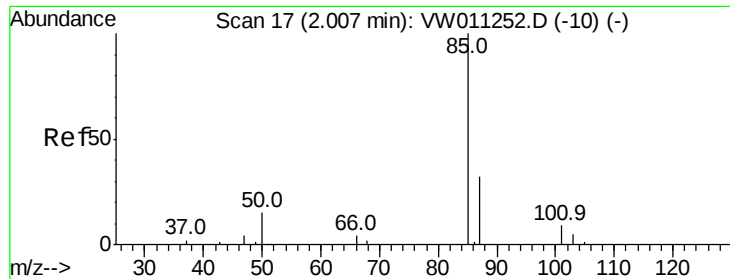
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 10.008 ug/L

RT: 2.01 min Scan# 17

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

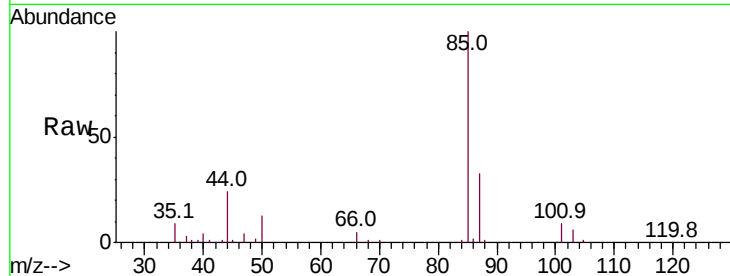
A52S4

Tot Ion: 85 Resp: 46739

Ion Ratio Lower Upper

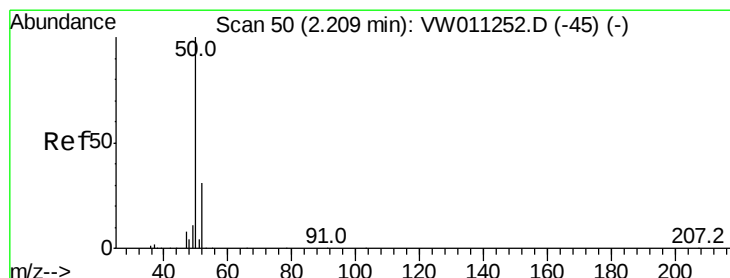
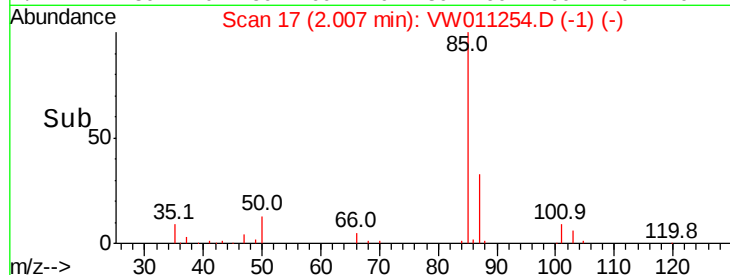
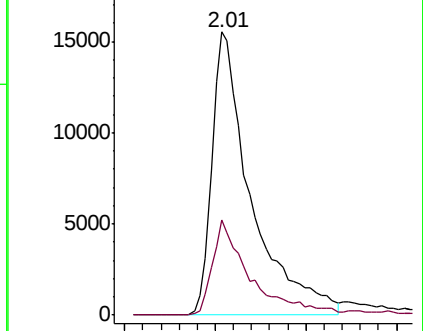
85 100

87 29.6 20.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VW

Ion 87.00 (86.70 to 87.70): VW



#3

Chloromethane

Concen: 12.164 ug/L

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW011254.D

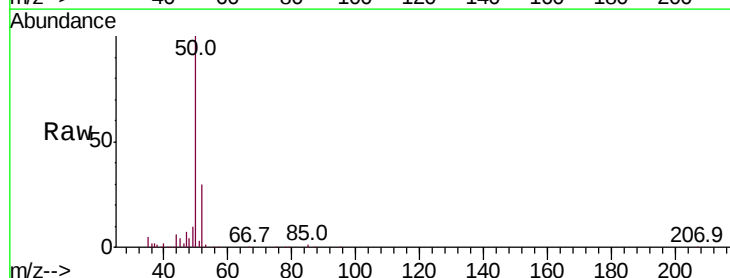
Acq: 15 Jul 2019 11:34

Tgt Ion: 50 Resp: 61677

Ion Ratio Lower Upper

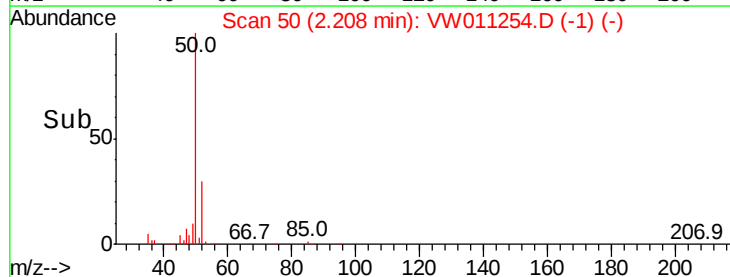
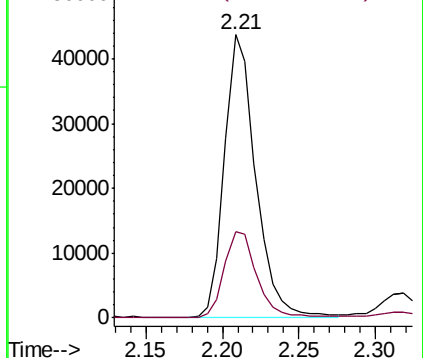
50 100

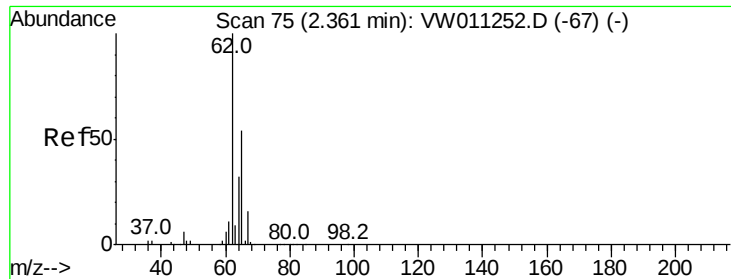
52 30.3 22.3 41.5



Abundance Ion 50.00 (49.70 to 50.70): VW

Ion 52.00 (51.70 to 52.70): VW





#5

Vinyl chloride

Concen: 24.830 ug/L

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

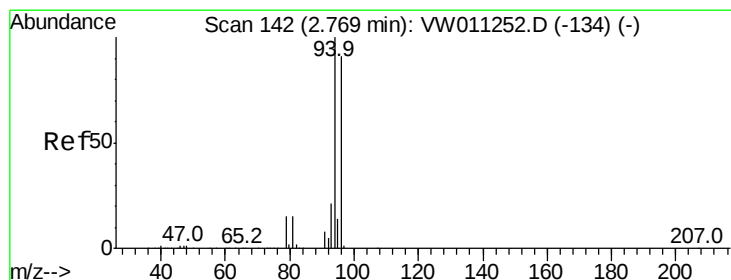
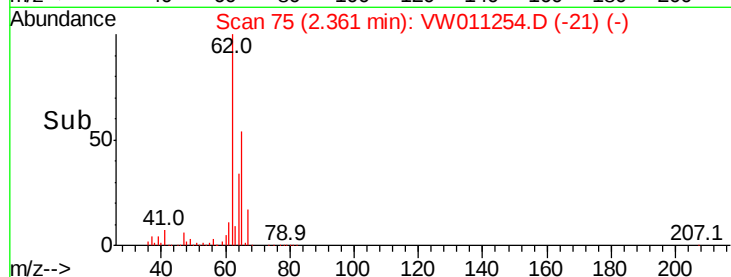
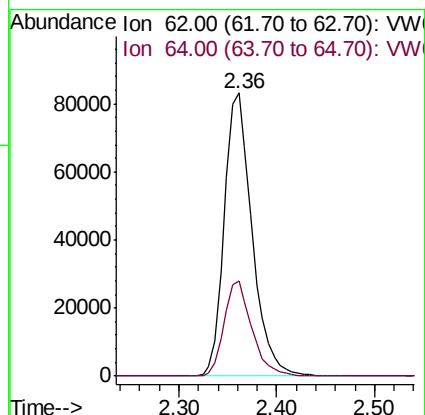
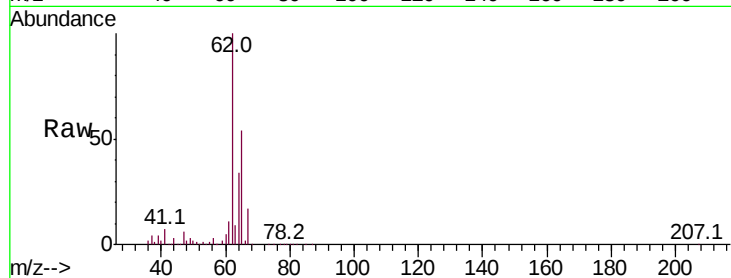
A52S4

Tot Ion: 62 Resp: 164322

Ion Ratio Lower Upper

62 100

64 33.8 23.9 44.3



#6

Bromomethane

Concen: 14.858 ug/L

RT: 2.78 min Scan# 143

Delta R.T. 0.01 min

Lab File: VW011254.D

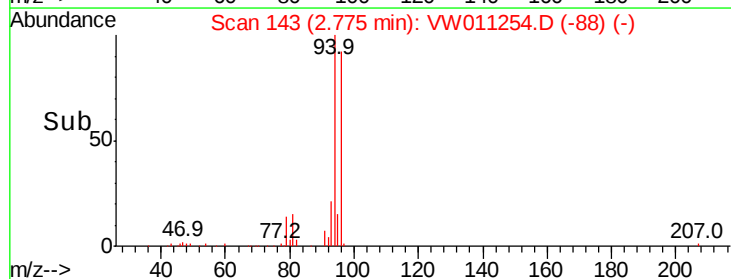
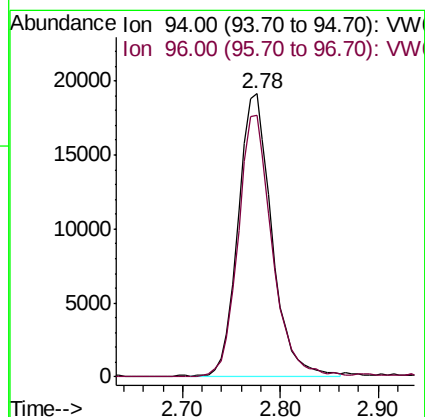
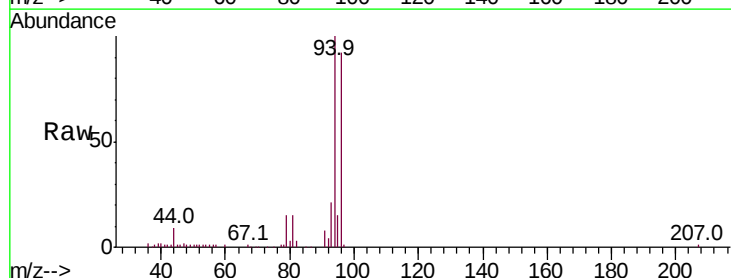
Acq: 15 Jul 2019 11:34

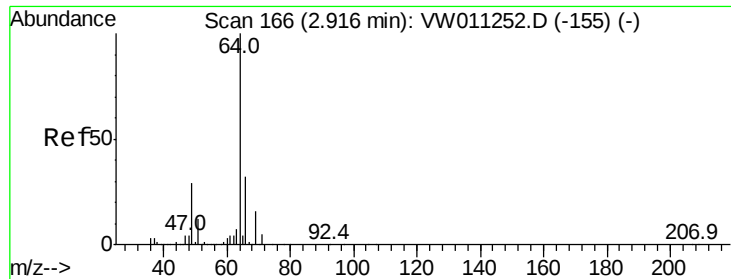
Tgt Ion: 94 Resp: 46004

Ion Ratio Lower Upper

94 100

96 92.6 9.3 177.3





#8

Chloroethane

Concen: 8.894 ug/L

RT: 2.92 min Scan# 167

Delta R.T. 0.01 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

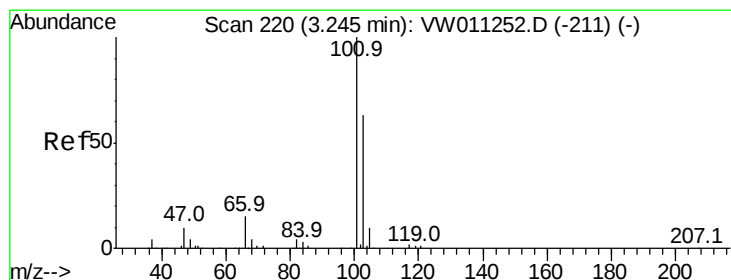
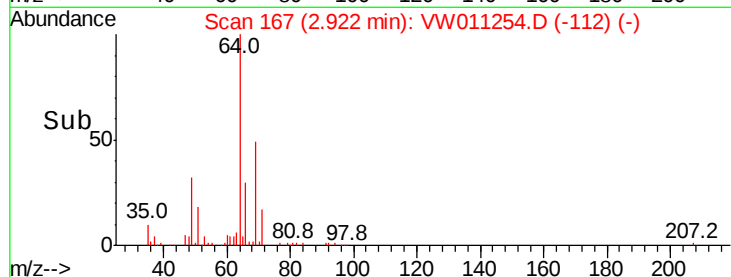
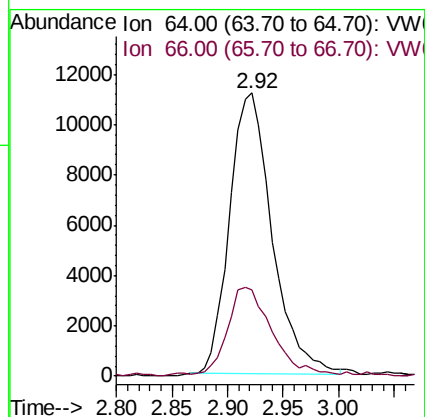
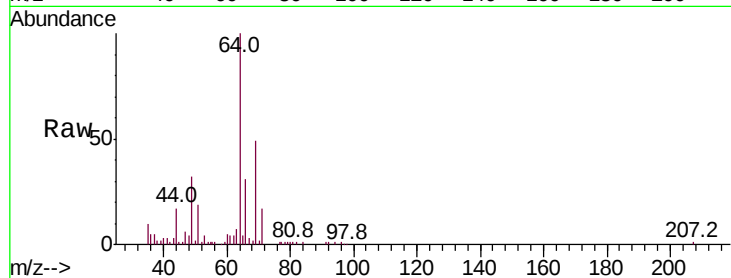
A52S4

Tot Ion: 64 Resp: 29749

Ion Ratio Lower Upper

64 100

66 30.6 21.9 40.7



#9

Trichlorofluoromethane

Concen: 10.923 ug/L

RT: 3.24 min Scan# 220

Delta R.T. -0.00 min

Lab File: VW011254.D

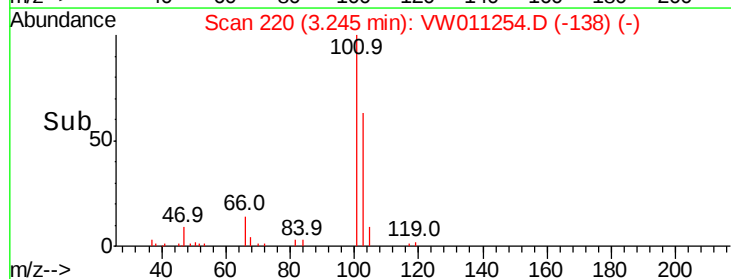
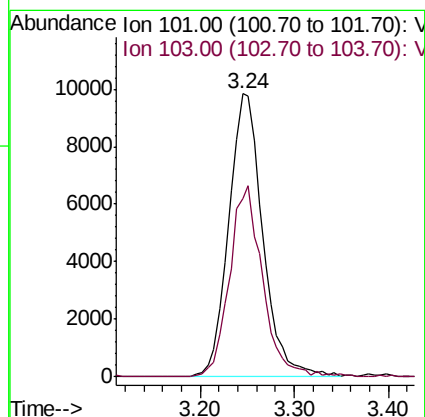
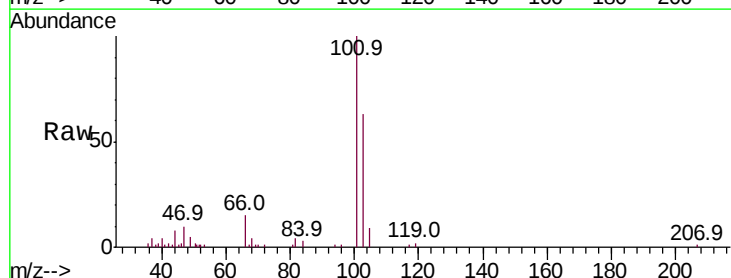
Acq: 15 Jul 2019 11:34

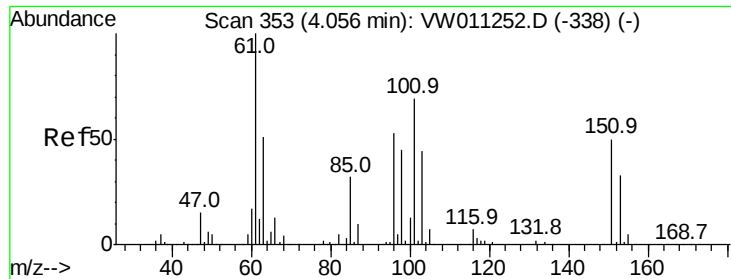
Tgt Ion: 101 Resp: 24751

Ion Ratio Lower Upper

101 100

103 64.8 44.6 82.8





#11

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 22.421 ug/L

RT: 4.06 min Scan# 353

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

A52S4

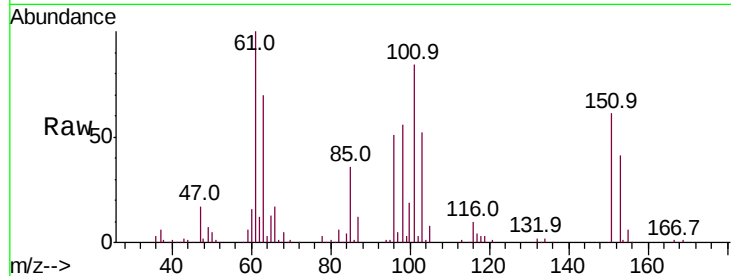
Tot Ion:101 Resp: 113197

Ion Ratio Lower Upper

101 100

85 44.6 33.8 50.8

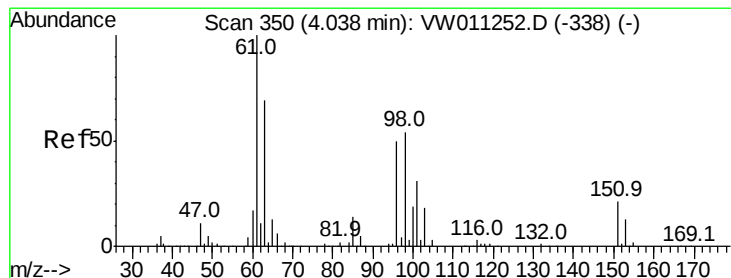
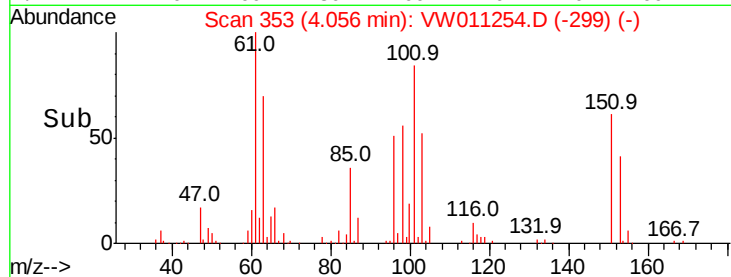
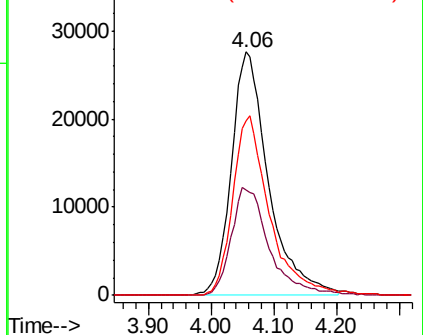
151 72.4 56.9 85.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VW

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 15.908 ug/L

RT: 4.04 min Scan# 350

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

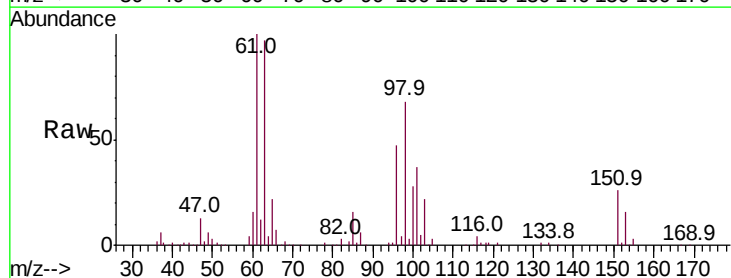
Tgt Ion: 96 Resp: 79385

Ion Ratio Lower Upper

96 100

61 214.0 142.2 264.0

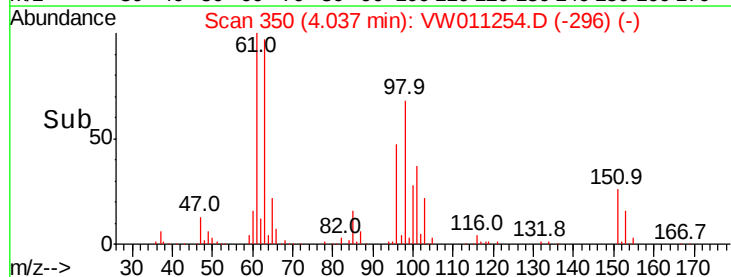
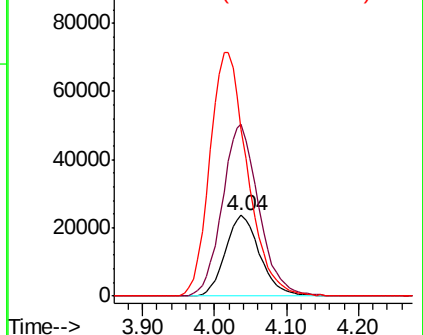
63 208.1 138.9 257.9

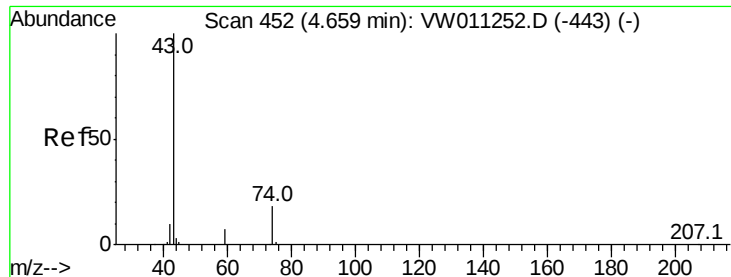


Abundance Ion 96.00 (95.70 to 96.70): VW

Ion 61.00 (60.70 to 61.70): VW

Ion 63.00 (62.70 to 63.70): VW





#15

Methvl Acetate

Concen: 24.531 ug/L

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

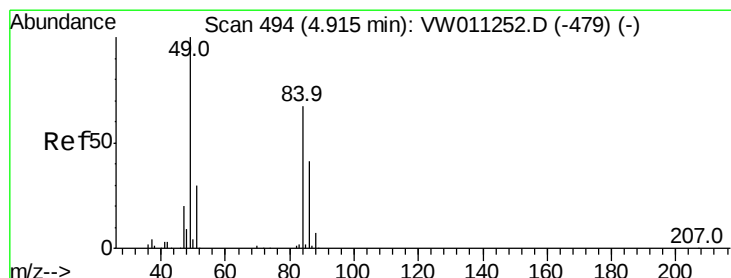
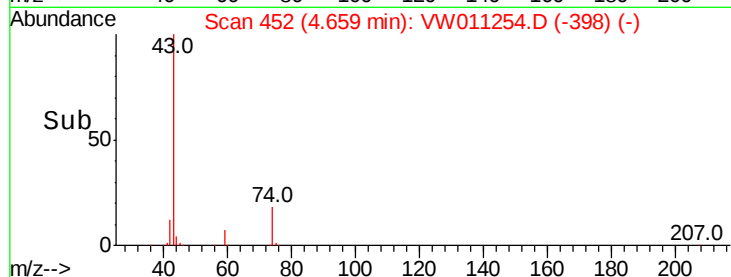
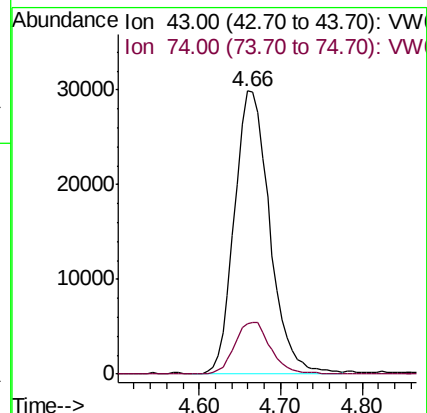
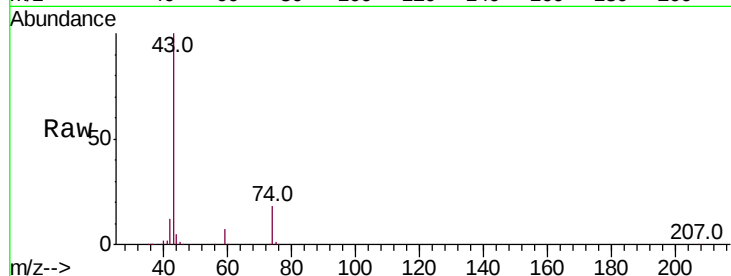
A52S4

Tot Ion: 43 Resp: 89051

Ion Ratio Lower Upper

43 100

74 18.5 15.1 22.7



#16

Methylene chloride

Concen: 21.220 ug/L

RT: 4.92 min Scan# 494

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

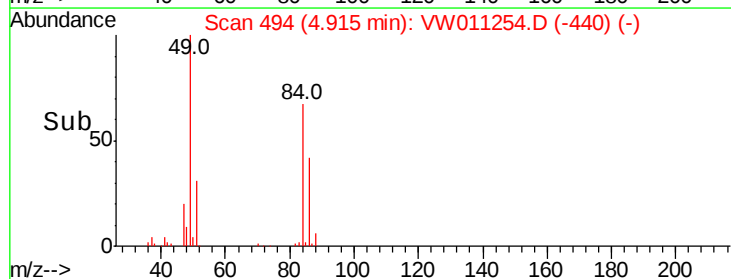
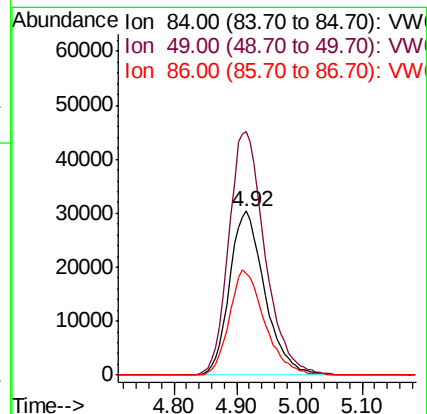
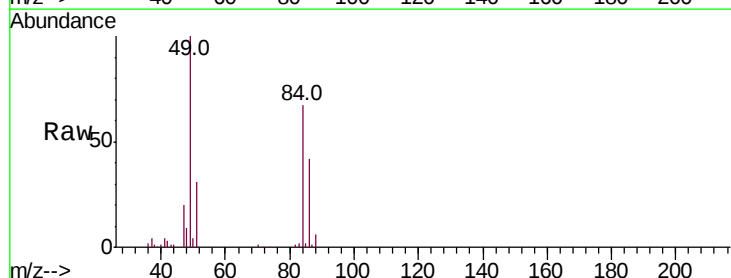
Tgt Ion: 84 Resp: 118410

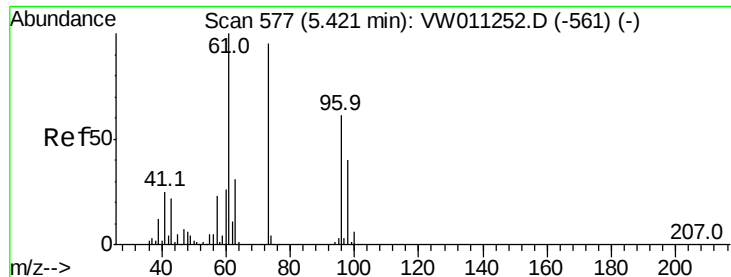
Ion Ratio Lower Upper

84 100

49 148.4 102.5 190.3

86 61.6 46.4 86.2

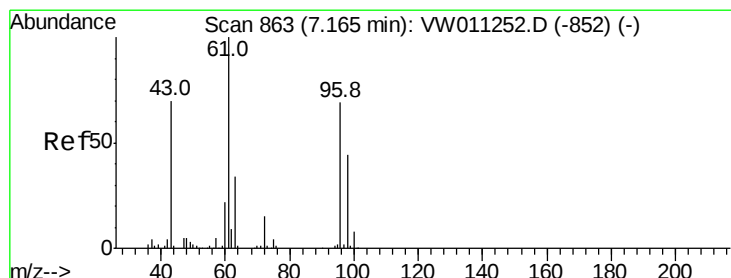
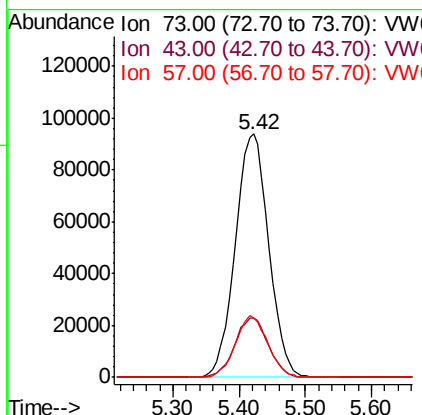
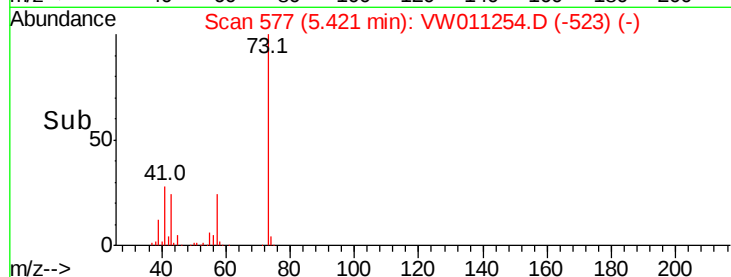
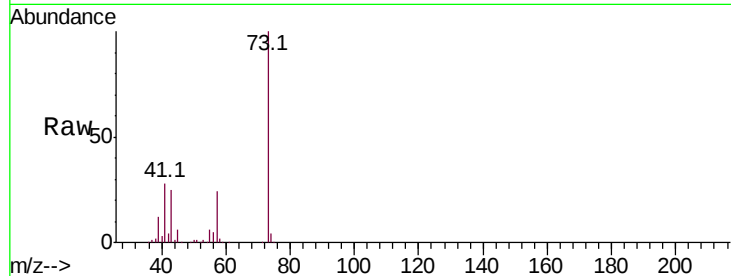




#17
Methvl tert-butvl Ether
Concen: 42.581 ug/L
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW011254.D
Acq: 15 Jul 2019 11:34

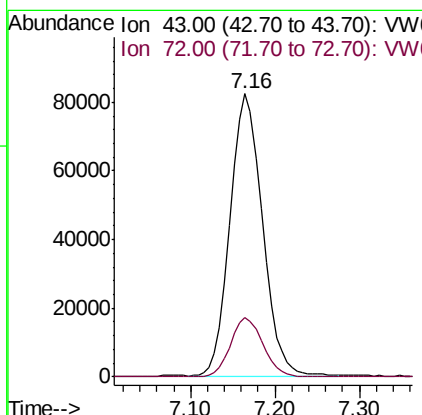
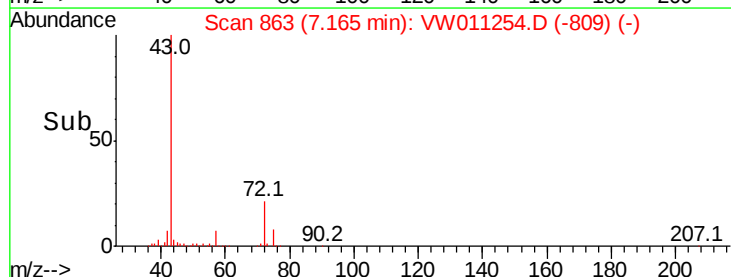
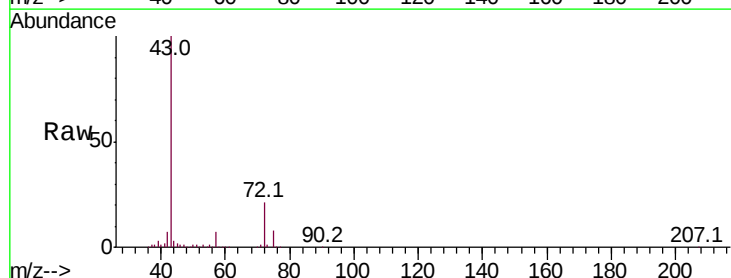
Instrument :
MSVOA_W
ClientSampleId :
A52S4

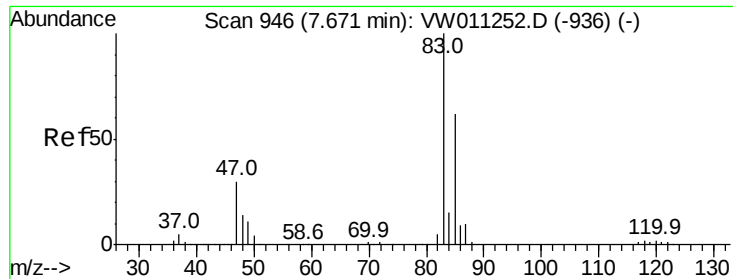
Tot Ion: 73 Resp: 329521
Ion Ratio Lower Upper
73 100
43 24.6 20.2 30.2
57 24.6 19.6 29.4



#21
2-Butanone
Concen: 74.565 ug/L
RT: 7.16 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW011254.D
Acq: 15 Jul 2019 11:34

Tgt Ion: 43 Resp: 214744
Ion Ratio Lower Upper
43 100
72 21.0 11.2 33.6

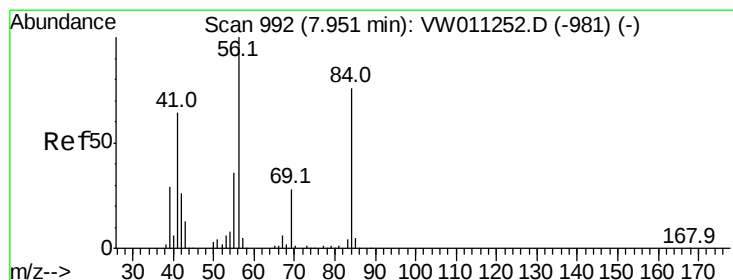
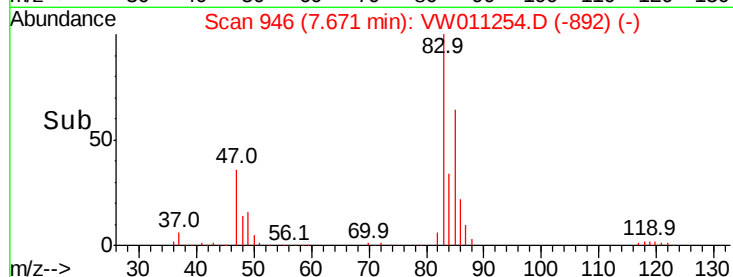
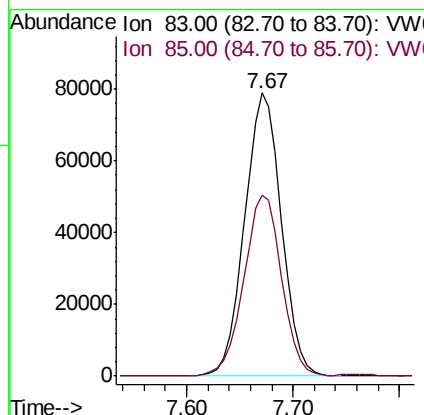
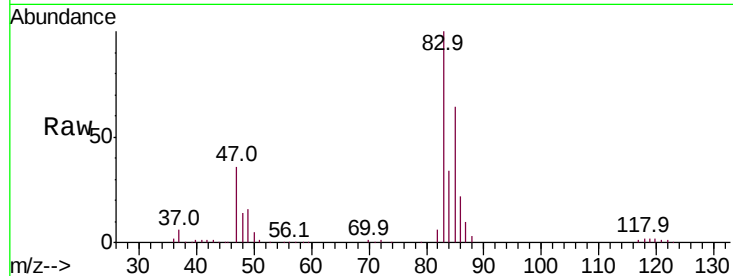




#25
Chloroform
Concen: 19.735 ug/L
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW011254.D
Acq: 15 Jul 2019 11:34

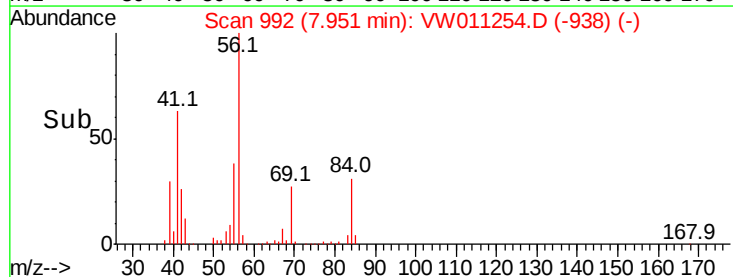
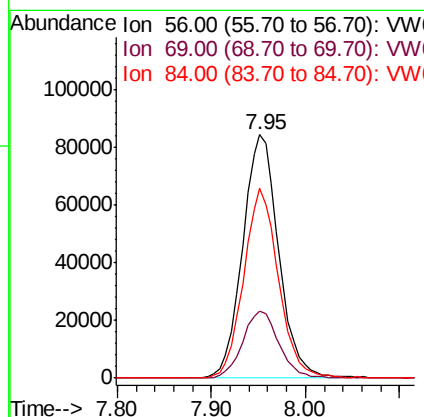
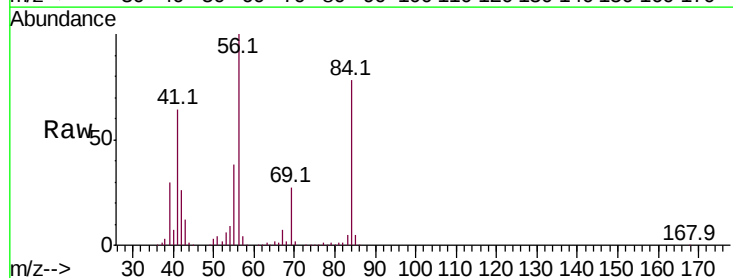
Instrument :
MSVOA_W
ClientSampled :
A52S4

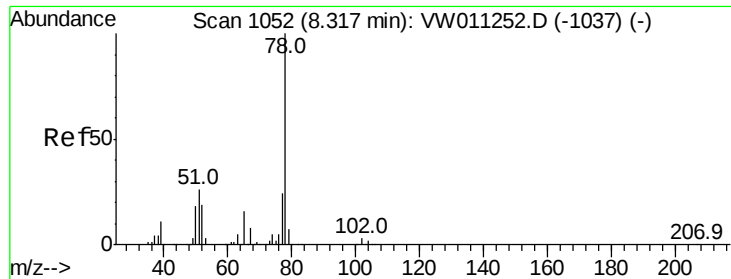
Tot Ion: 83 Resp: 191361
Ion Ratio Lower Upper
83 100
85 65.7 45.6 84.6



#30
Cyclohexane
Concen: 21.809 ug/L
RT: 7.95 min Scan# 992
Delta R.T. -0.00 min
Lab File: VW011254.D
Acq: 15 Jul 2019 11:34

Tgt Ion: 56 Resp: 225279
Ion Ratio Lower Upper
56 100
69 27.6 22.5 33.7
84 75.4 60.9 91.3





#34

Benzene

Concen: 42.980 ug/L

RT: 8.32 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

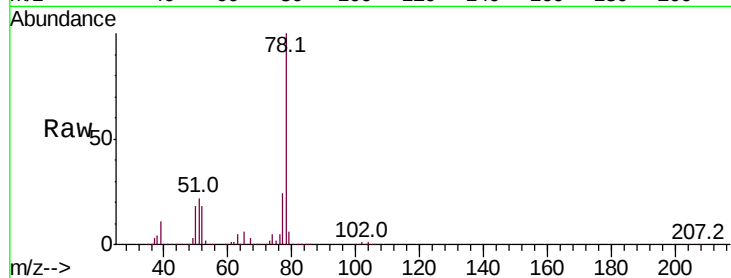
Instrument :

MSVOA_W

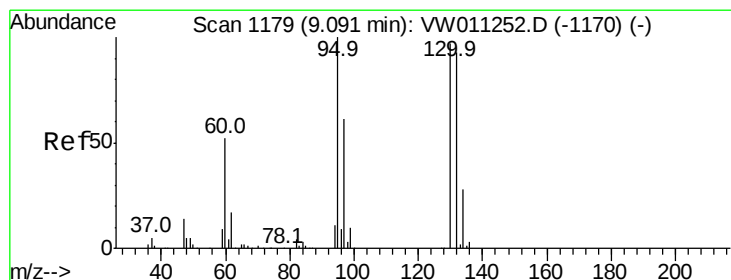
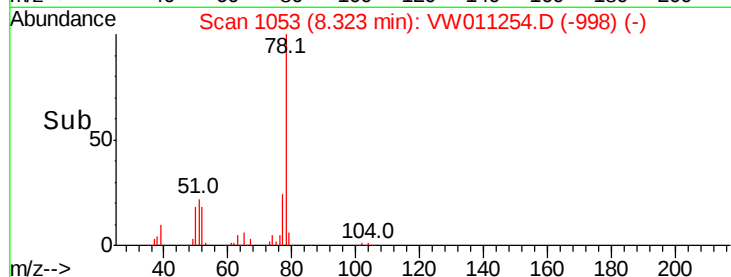
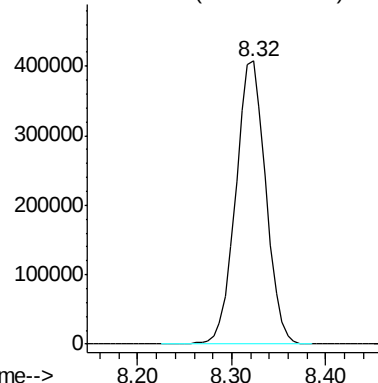
ClientSampleId :

A52S4

Tgt Ion: 78 Resp: 912617



Abundance Ion 78.00 (77.70 to 78.70): VW



#35

Trichloroethene

Concen: 53.814 ug/L

RT: 9.09 min Scan# 1179

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Tgt Ion: 95 Resp: 288353

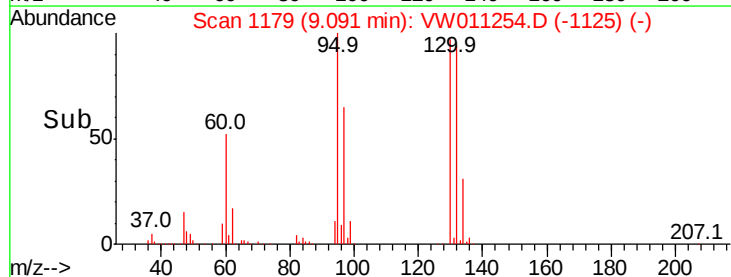
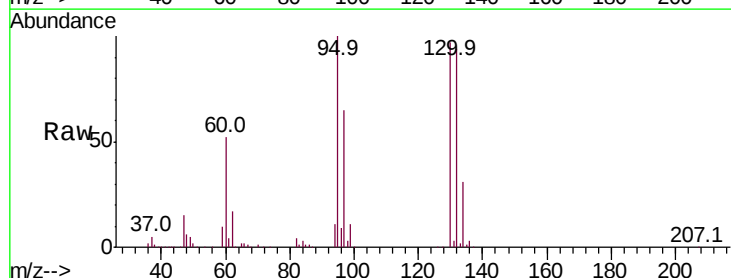
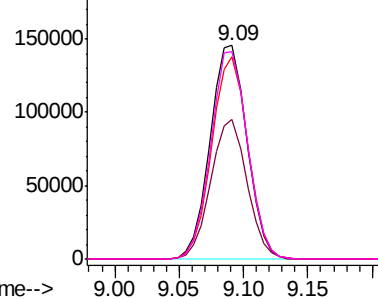
Ion	Ratio	Lower	Upper
95	100		
97	64.4	45.4	84.2
132	92.9	65.0	120.8
130	96.8	67.8	126.0

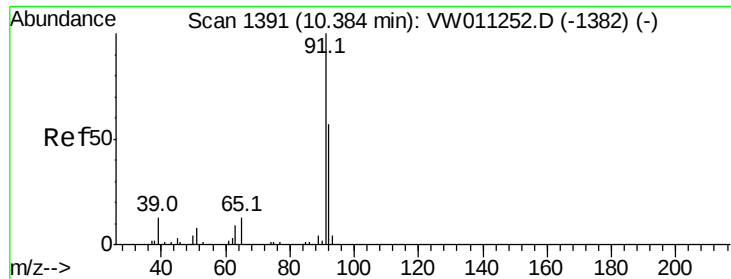
Abundance Ion 95.00 (94.70 to 95.70): VW

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





#44

Toluene

Concen: 52.772 ug/L

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

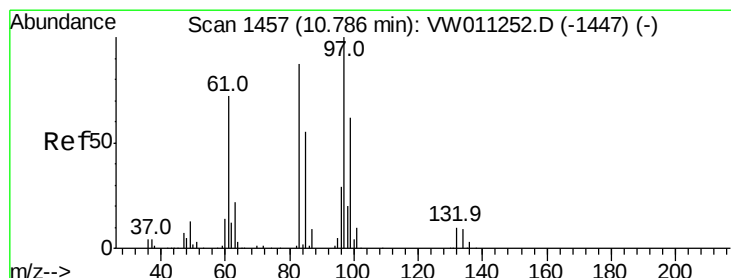
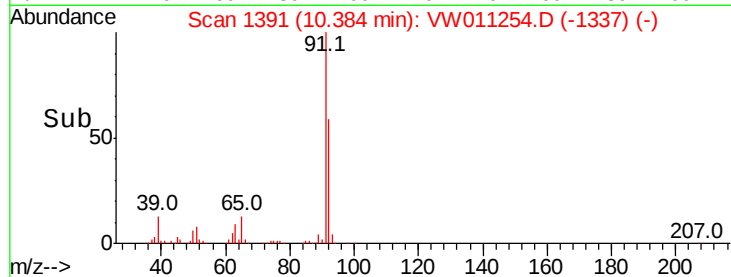
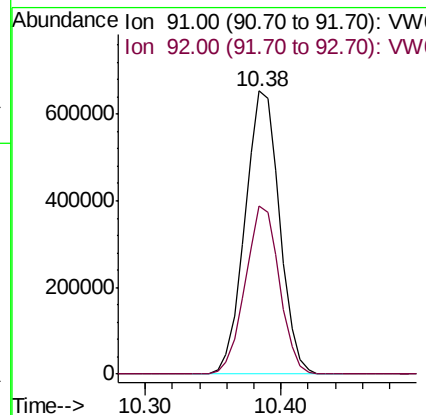
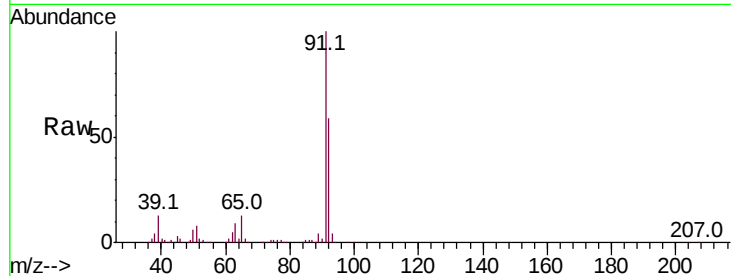
A52S4

Tot Ion: 91 Resp: 1159828

Ion Ratio Lower Upper

91 100

92 59.3 40.8 75.8



#46

1,1,2-Trichloroethane

Concen: 19.939 ug/L

RT: 10.79 min Scan# 1457

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Tgt Ion: 97 Resp: 80340

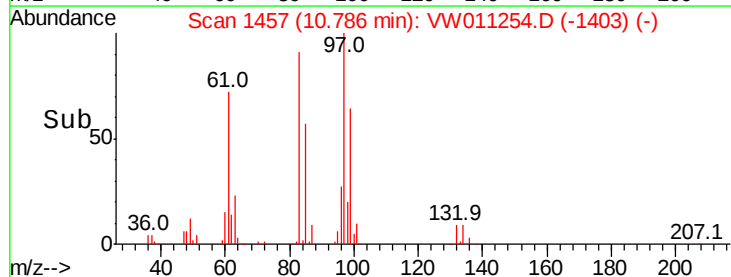
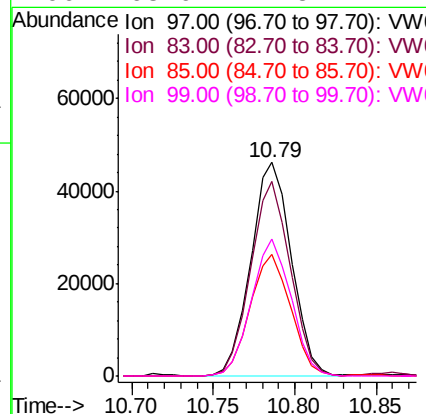
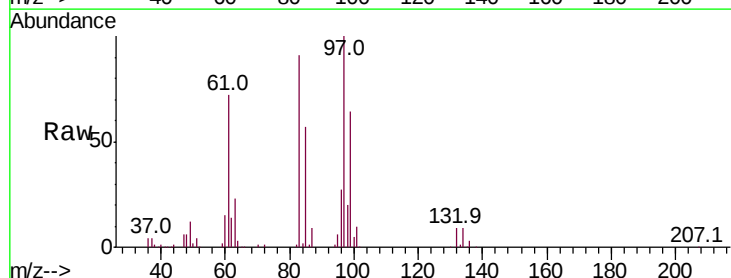
Ion Ratio Lower Upper

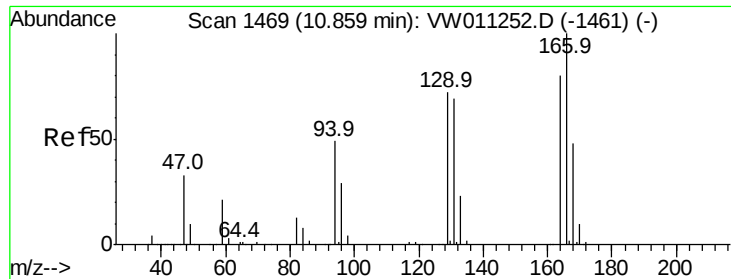
97 100

83 91.1 63.1 117.3

85 57.2 39.0 72.4

99 63.9 41.5 77.1

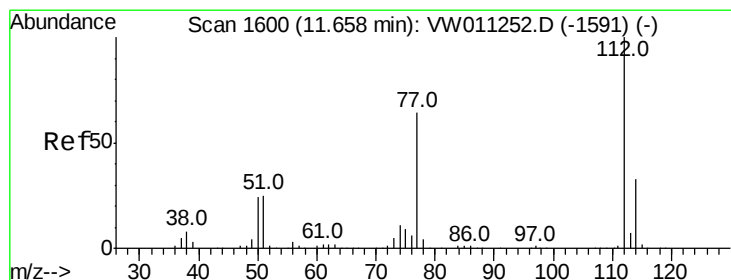
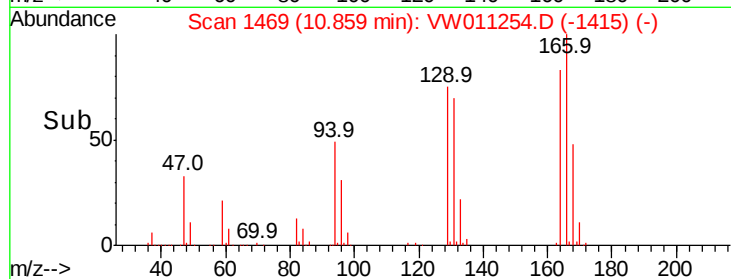
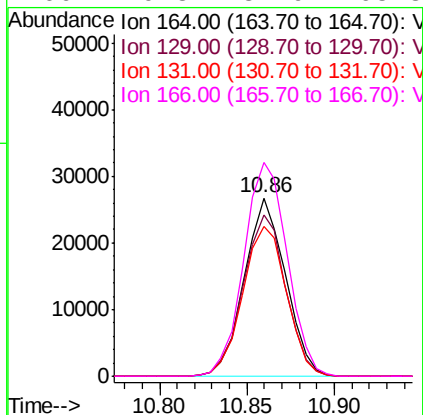
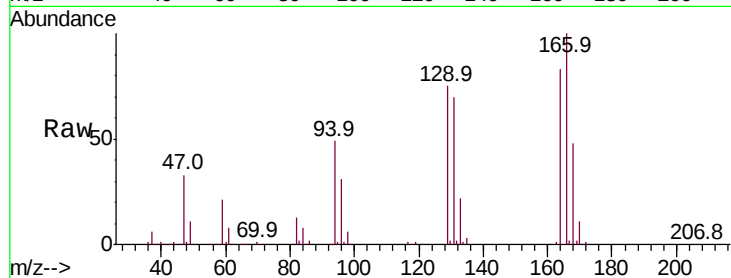




#47
Tetrachloroethene
Concen: 10.818 ug/L
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW011254.D
Acq: 15 Jul 2019 11:34

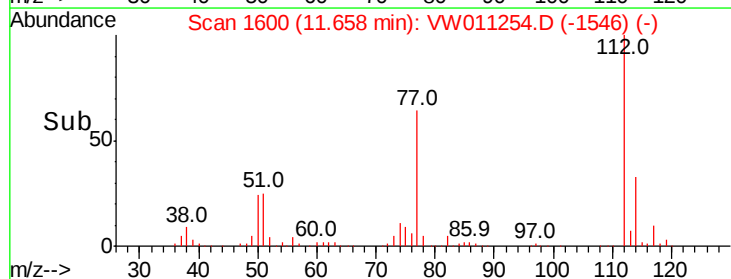
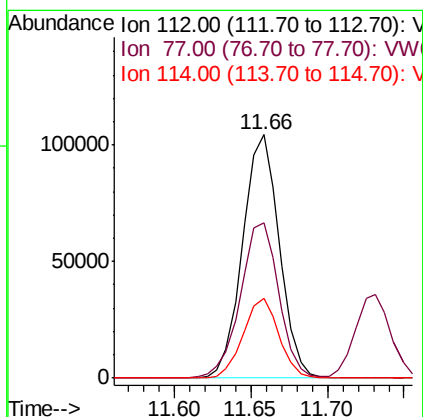
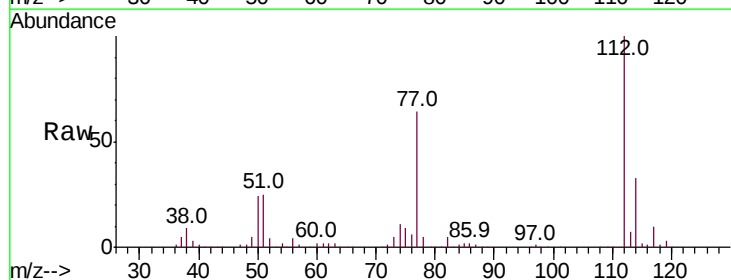
Instrument :
MSVOA_W
ClientSampleId :
A52S4

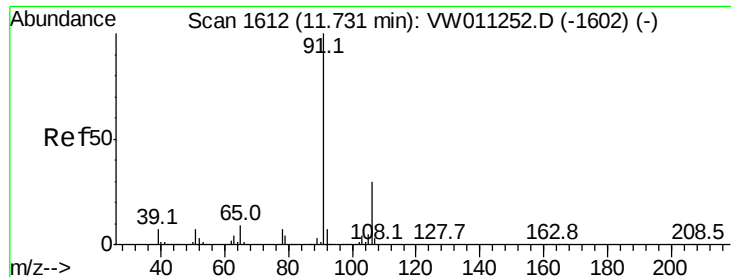
Tot Ion:164 Resp: 43808
Ion Ratio Lower Upper
164 100
129 90.4 68.5 127.1
131 84.1 64.8 120.4
166 119.8 87.9 163.3



#52
Chlorobenzene
Concen: 12.950 ug/L
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW011254.D
Acq: 15 Jul 2019 11:34

Tgt Ion:112 Resp: 173877
Ion Ratio Lower Upper
112 100
77 63.6 51.2 76.8
114 32.8 22.0 40.8





#53

Ethylbenzene

Concen: 25.702 ug/L

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

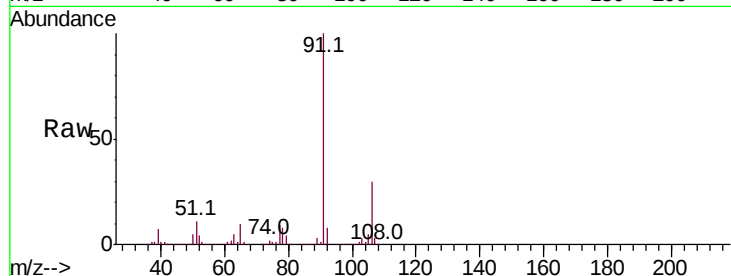
A52S4

Tot Ion: 91 Resp: 640744

Ion Ratio Lower Upper

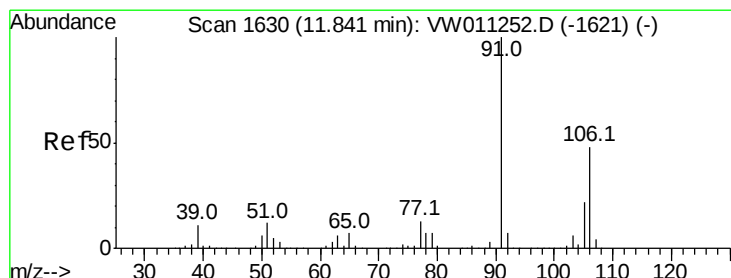
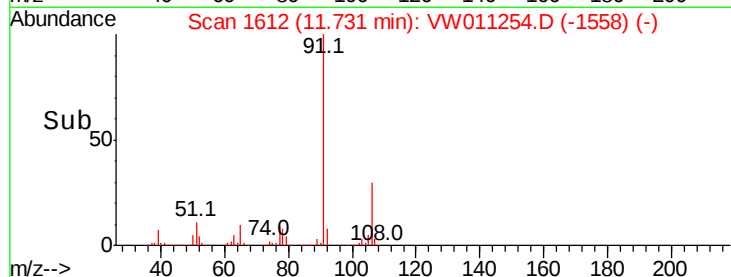
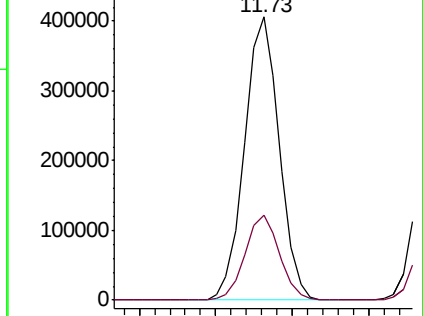
91 100

106 29.9 20.6 38.4



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 106.00 (105.70 to 106.70): V



#54

m,p-Xylene

Concen: 31.181 ug/L

RT: 11.85 min Scan# 1631

Delta R.T. 0.01 min

Lab File: VW011254.D

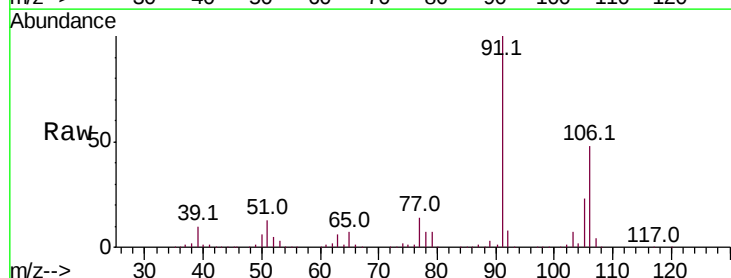
Acq: 15 Jul 2019 11:34

Tgt Ion: 106 Resp: 282220

Ion Ratio Lower Upper

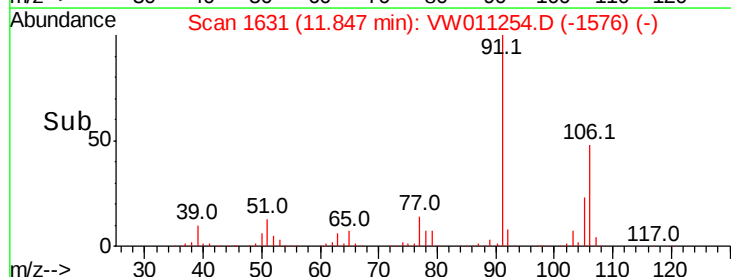
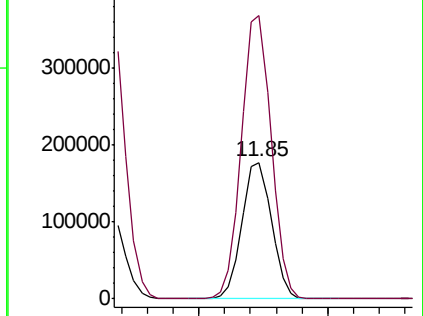
106 100

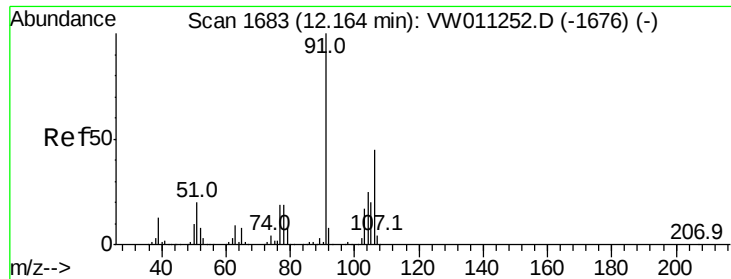
91 207.3 142.6 264.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VW

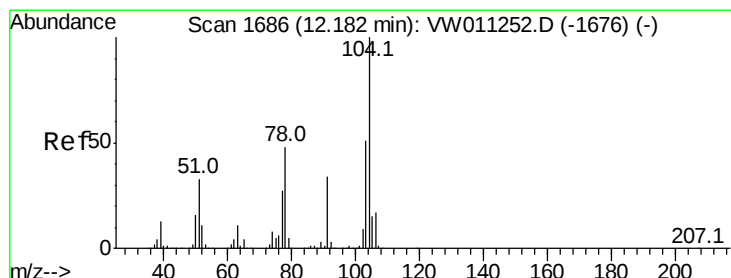
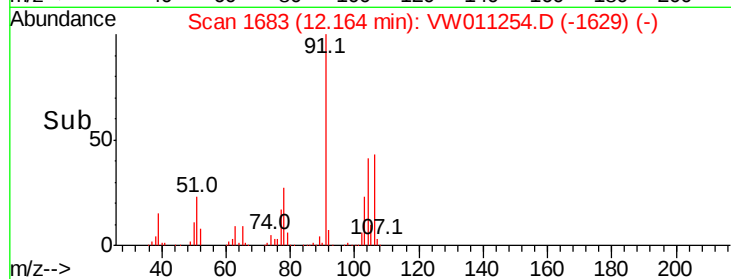
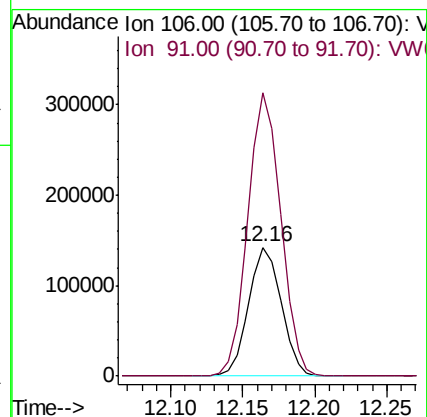
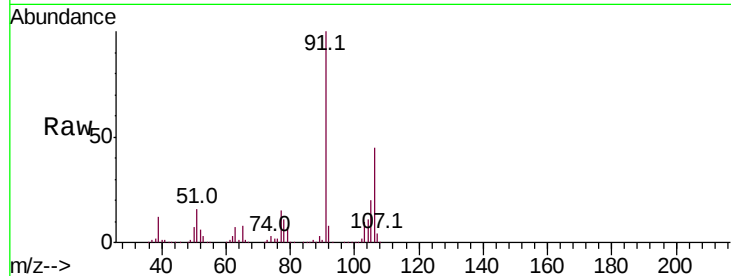




#55
o-xylene
Concen: 26.013 ug/L
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW011254.D
Acq: 15 Jul 2019 11:34

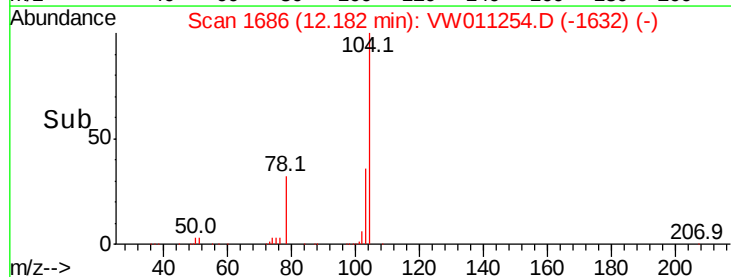
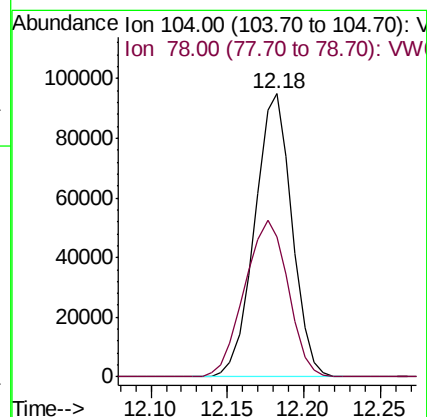
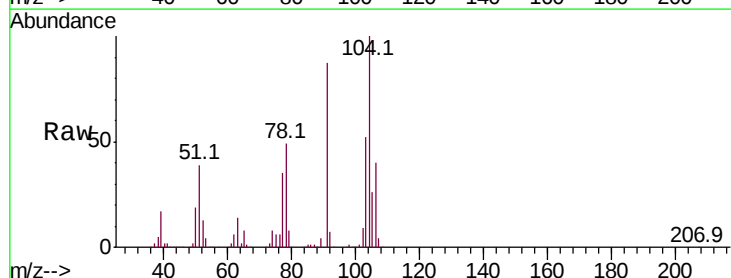
Instrument :
MSVOA_W
ClientSampled :
A52S4

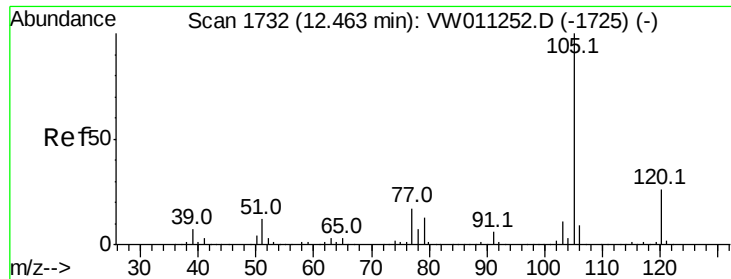
Tot Ion:106 Resp: 223976
Ion Ratio Lower Upper
106 100
91 220.3 154.6 287.2



#56
Styrene
Concen: 10.915 ug/L
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW011254.D
Acq: 15 Jul 2019 11:34

Tgt Ion:104 Resp: 161225
Ion Ratio Lower Upper
104 100
78 49.5 33.7 62.7





#57

Isopropylbenzene

Concen: 20.951 ug/L

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

A52S4

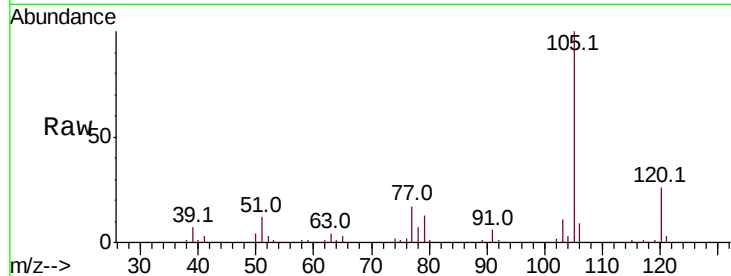
Tot Ion:105 Resp: 492438

Ion Ratio Lower Upper

105 100

120 25.8 20.7 31.1

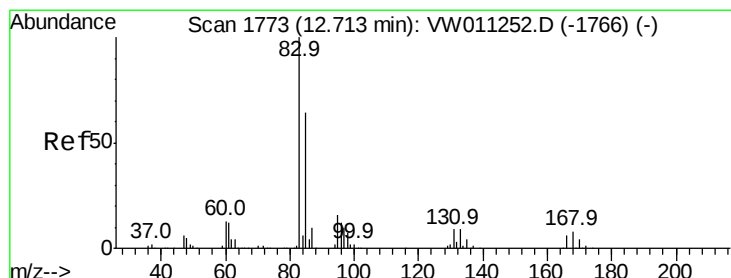
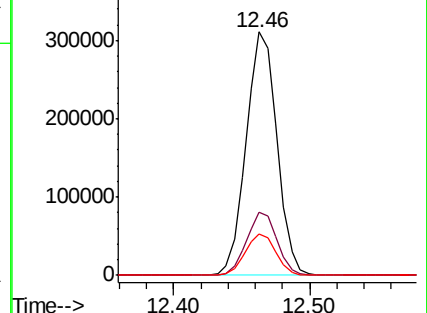
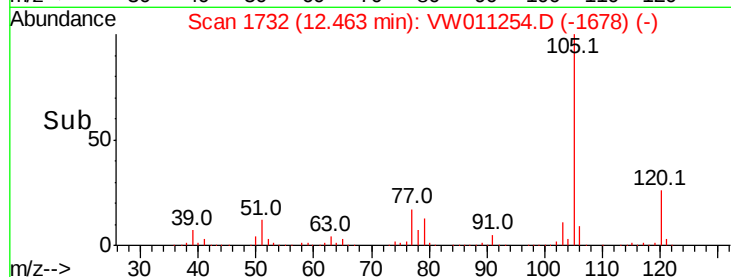
77 16.9 13.5 20.3



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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 11.543 ug/L

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

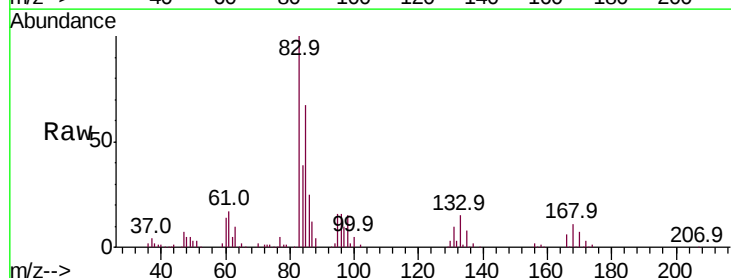
Tgt Ion: 83 Resp: 61873

Ion Ratio Lower Upper

83 100

85 67.4 44.0 81.6

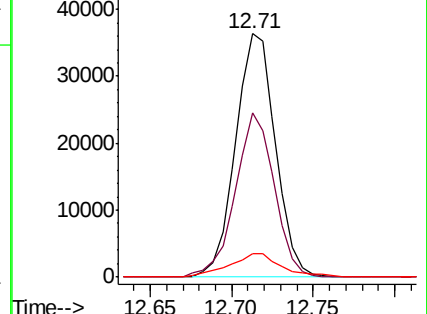
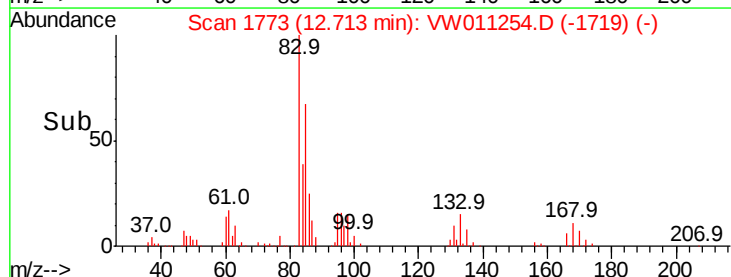
131 9.5 6.7 10.1

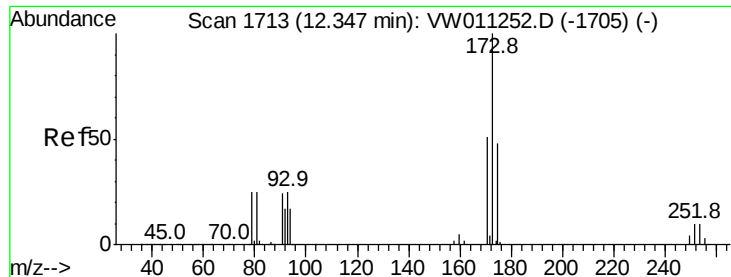


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#62

Bromoform

Concen: 11.695 ug/L

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

A52S4

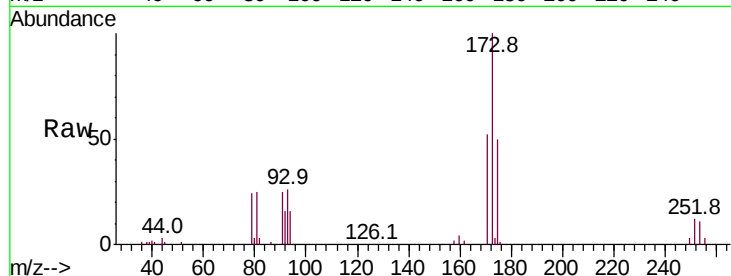
Tot Ion:173 Resp: 29220

Ion Ratio Lower Upper

173 100

175 48.3 39.0 58.6

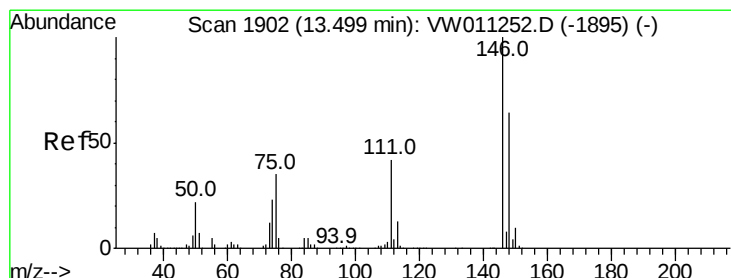
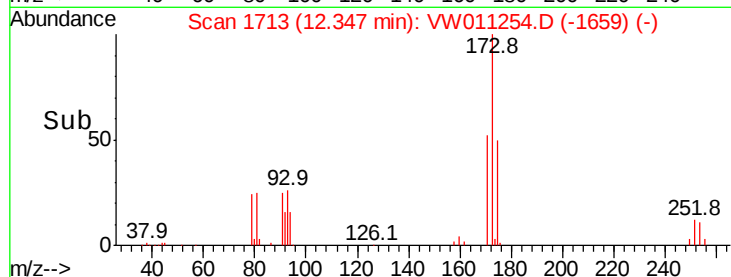
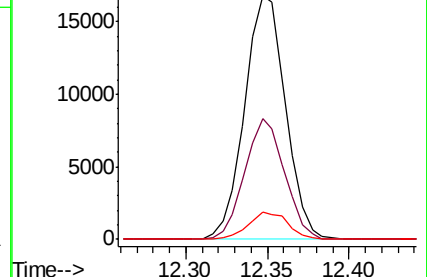
254 11.1 8.5 12.7



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#63

1,3-Dichlorobenzene

Concen: 20.599 ug/L

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

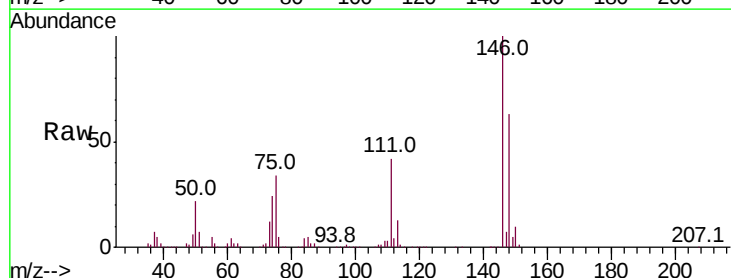
Tgt Ion:146 Resp: 212465

Ion Ratio Lower Upper

146 100

111 42.4 29.0 53.8

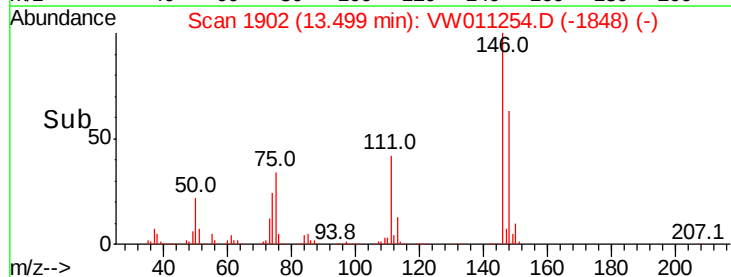
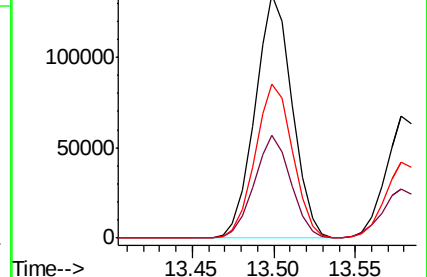
148 63.2 44.4 82.5

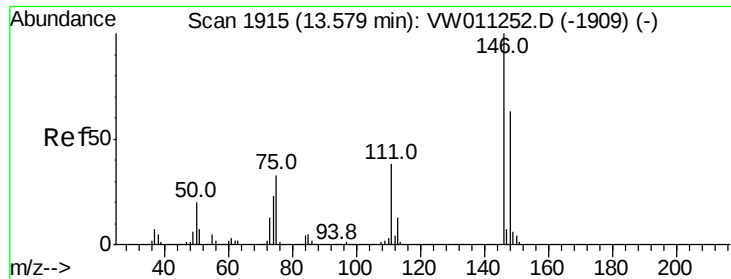


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#64

1,4-Dichlorobenzene

Concen: 10.164 ug/L

RT: 13.58 min Scan# 1915

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

Instrument :

MSVOA_W

ClientSampleId :

A52S4

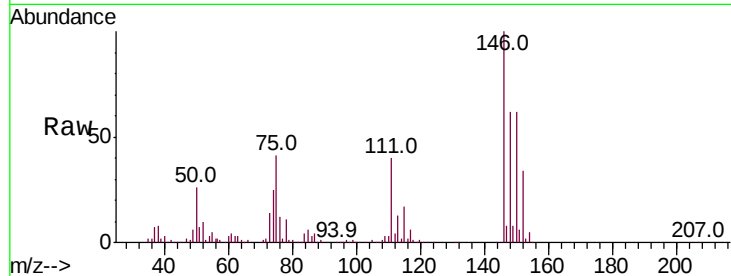
Tot Ion:146 Resp: 107322

Ion Ratio Lower Upper

146 100

111 40.0 27.5 51.1

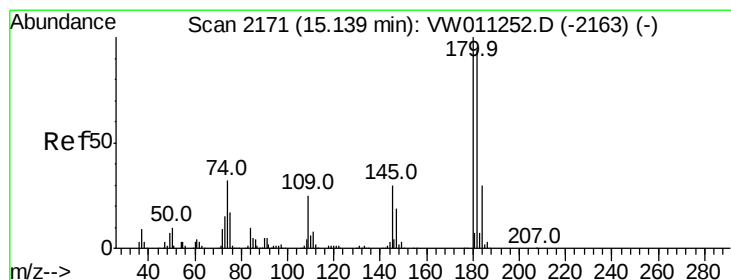
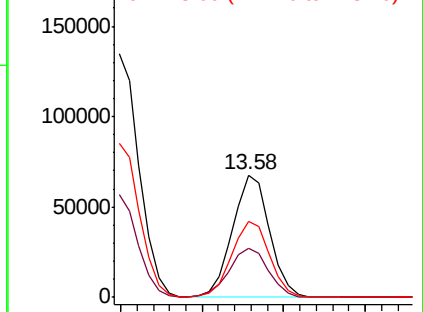
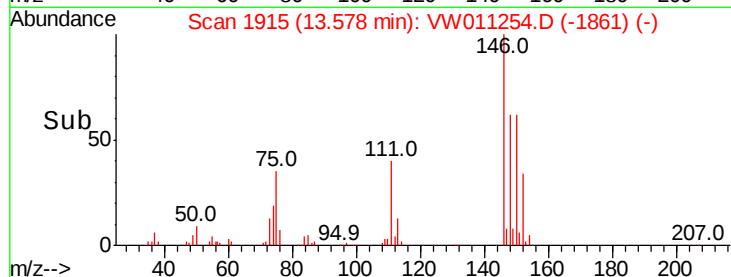
148 62.4 43.8 81.3



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#68

1,2,4-trichlorobenzene

Concen: 20.517 ug/L

RT: 15.14 min Scan# 2171

Delta R.T. -0.00 min

Lab File: VW011254.D

Acq: 15 Jul 2019 11:34

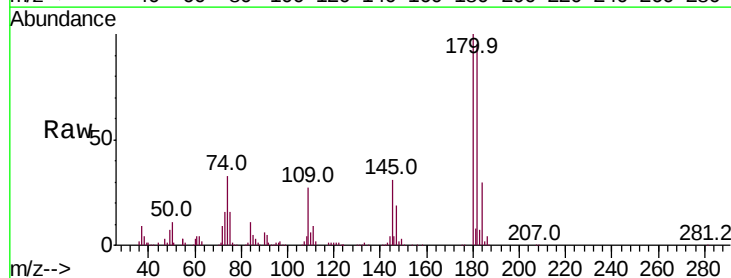
Tgt Ion:180 Resp: 134329

Ion Ratio Lower Upper

180 100

182 95.6 77.0 115.6

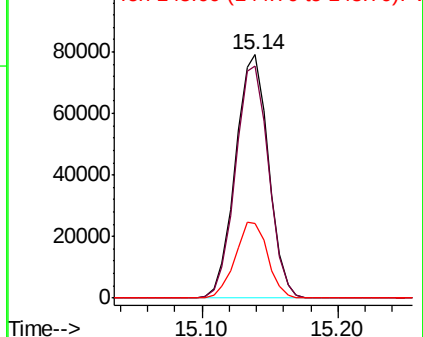
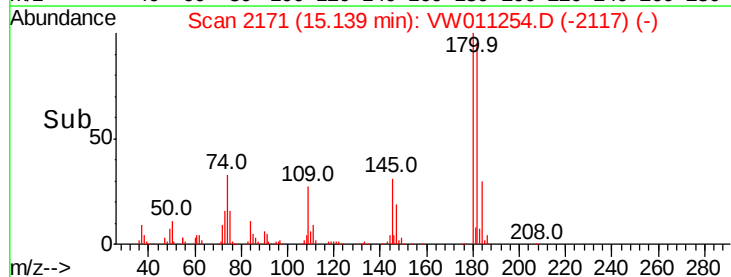
145 30.7 24.5 36.7

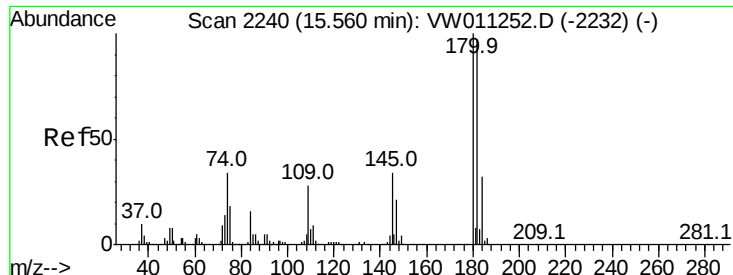


Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

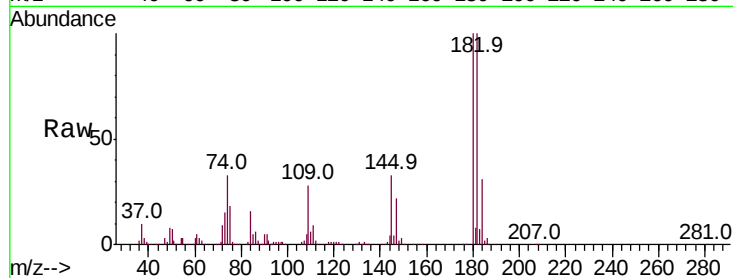




#70
 1,2,3-Trichlorobenzene
 Concen: 30.428 ug/L
 RT: 15.56 min Scan# 2240
 Delta R.T. -0.00 min
 Lab File: VW011254.D
 Acq: 15 Jul 2019 11:34

Instrument :
 MSVOA_W
 ClientSampleId :
 A52S4

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.1	76.4	114.6
145	32.8	25.5	38.3



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

