

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW070618\
 Data File : VW003743.D
 Acq On : 06 Jul 2018 17:38
 Operator : SY/AP
 Sample : J3661-06
 Misc : 5.00G/10ML/MSVOA W/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

Quant Time: Jul 07 00:24:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\SOM2WLM070618S.M
 Quant Title : VOC Analysis
 QLast Update : Fri Jul 06 15:27:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	8.84	114	323866	25.00	ug/L	0.00
28) Chlorobenzene-d5	11.63	117	313272	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	13.57	152	162518	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	2.35	65	111572	25.18	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	100.72%
7) Chloroethane-d5	2.89	69	74847	22.35	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	89.40%
10) 1,1-Dichloroethene-d2	4.01	63	199952	25.16	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	100.64%
20) 2-Butanone-d5	7.08	46	86923	62.03	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	124.06%
24) Chloroform-d	7.65	84	215351	24.45	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	97.80%
26) 1,2-Dichloroethane-d4	8.31	65	133792	25.27	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	101.08%
29) Benzene-d6	8.28	84	415594	25.13	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	100.52%
33) 1,2-Dichloropropane-d6	9.27	67	132780	24.95	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	99.80%
37) Toluene-d8	10.33	98	405486	25.81	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	103.24%
38) trans-1,3-Dichloropropene-	10.58	79	63097	25.60	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	102.40%
39) 2-Hexanone-d5	10.93	63	65232	61.90	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	123.80%
48) 1,1,2,2-Tetrachloroethane-	12.70	84	134551	26.46	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	105.84%
61) 1,2-Dichlorobenzene-d4	13.86	152	150275	24.52	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	98.08%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	2.00	85	34322	12.05	ug/L	94
5) Vinyl chloride	2.36	62	69668	12.54	ug/L	95
8) Chloroethane	2.92	64	48943	16.10	ug/L	97
12) 1,1-Dichloroethene	4.03	96	59508	15.54	ug/L #	81
13) Acetone	4.12	43	313521	209.21	ug/L #	70
14) Carbon disulfide	4.37	76	298586	23.91	ug/L	100
16) Methylene chloride	4.90	84	155358	29.98	ug/L	99
18) trans-1,2-Dichloroethene	5.42	96	117081	27.09	ug/L	96
19) 1,1-Dichloroethane	6.21	63	90277	10.71	ug/L	97
22) cis-1,2-Dichloroethene	7.17	96	147254	31.00	ug/L	99
23) Bromochloromethane	7.51	128	88527	39.40	ug/L	93
25) Chloroform	7.68	83	102205	11.67	ug/L	99
31) 1,1,1-Trichloroethane	7.87	97	286501	41.49	ug/L	100
32) Carbon tetrachloride	8.07	117	105245	15.46	ug/L	100
35) Trichloroethene	9.09	95	156790	31.45	ug/L	100
40) 1,2-Dichloropropane	9.37	63	95882	19.17	ug/L	99
41) Bromodichloromethane	9.65	83	79655	12.28	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

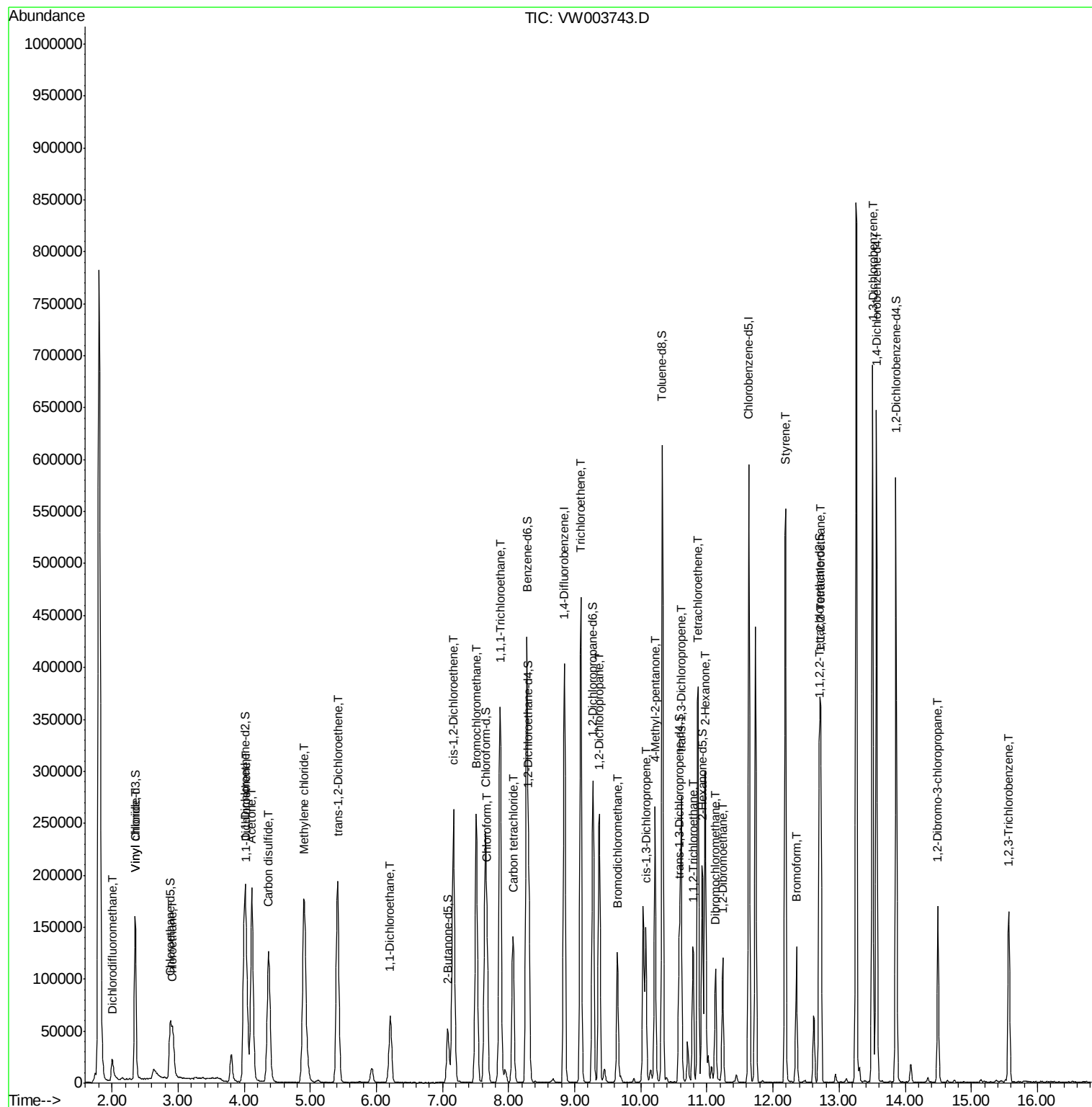
42) cis-1,3-Dichloropropene	10.07	75	84543	11.41	ug/L	97
43) 4-Methyl-2-pentanone	10.21	43	169177	45.57	ug/L	99
45) trans-1,3-Dichloropropene	10.61	75	137721	20.24	ug/L	97
46) 1,1,2-Trichloroethane	10.79	97	39969	10.41	ug/L	99
47) Tetrachloroethene	10.87	164	83287	20.00	ug/L	99
49) 2-Hexanone	10.97	43	195119	68.25	ug/L	99
50) Dibromochloromethane	11.13	129	56621	12.39	ug/L	99
51) 1,2-Dibromoethane	11.24	107	77608	20.94	ug/L	99
56) Styrene	12.19	104	250388	18.06	ug/L	98
58) 1,1,2,2-Tetrachloroethane	12.72	83	156224	30.30	ug/L	98
62) Bromoform	12.35	173	58449	19.71	ug/L	100
63) 1,3-Dichlorobenzene	13.51	146	267675	26.09	ug/L	97
66) 1,2-Dibromo-3-chloropropan	14.49	75	40685	43.27	ug/L	96
70) 1,2,3-Trichlorobenzene	15.57	180	55604	8.93	ug/L	97

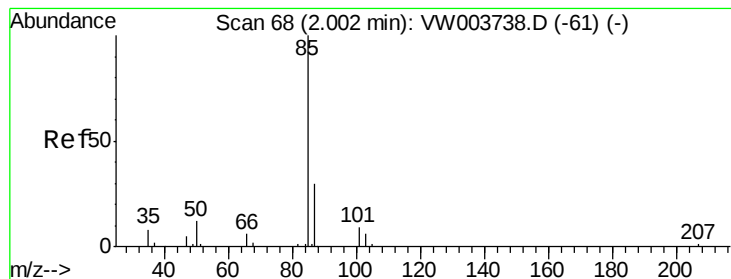
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 12.05 ug/L

RT: 2.00 min Scan# 68

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

Instrument :

MSVOA_W

ClientSampleId :

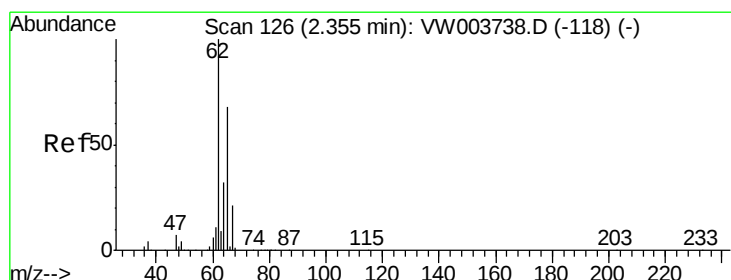
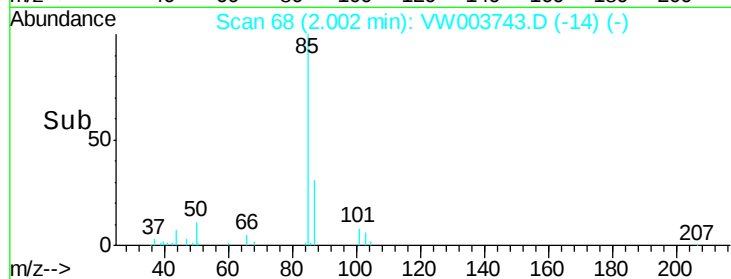
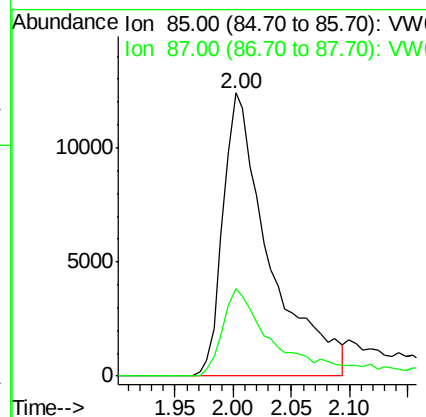
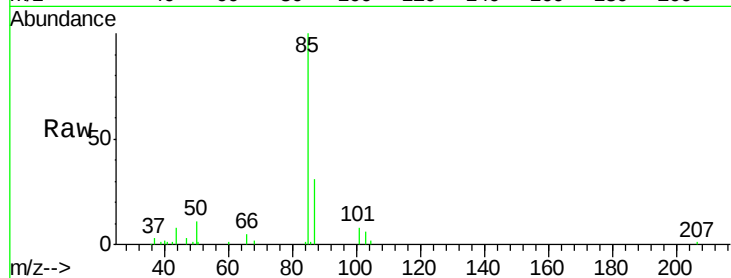
X2D24

Tot Ion: 85 Resp: 34322

Ion Ratio Lower Upper

85 100

87 29.6 23.3 43.3



#5

Vinyl chloride

Concen: 12.54 ug/L

RT: 2.36 min Scan# 126

Delta R.T. 0.00 min

Lab File: VW003743.D

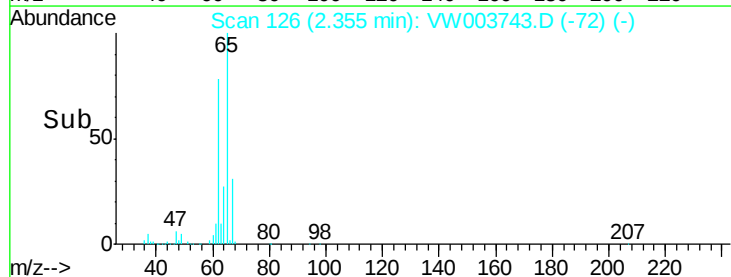
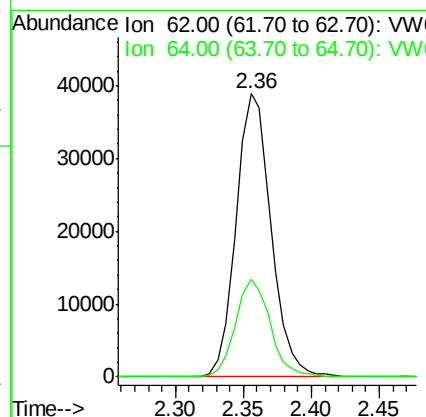
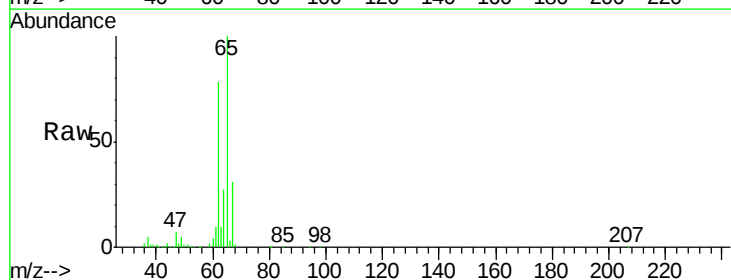
Acq: 06 Jul 2018 17:38

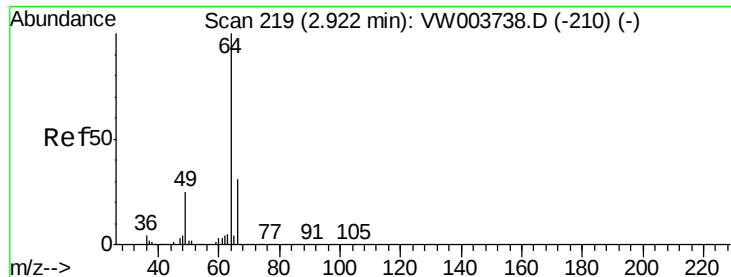
Tgt Ion: 62 Resp: 69668

Ion Ratio Lower Upper

62 100

64 34.7 22.2 41.2





#8

Chloroethane

Concen: 16.10 ug/L

RT: 2.92 min Scan# 219

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

Instrument :

MSVOA_W

ClientSampled :

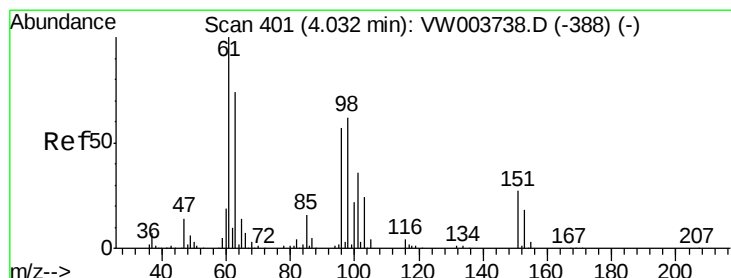
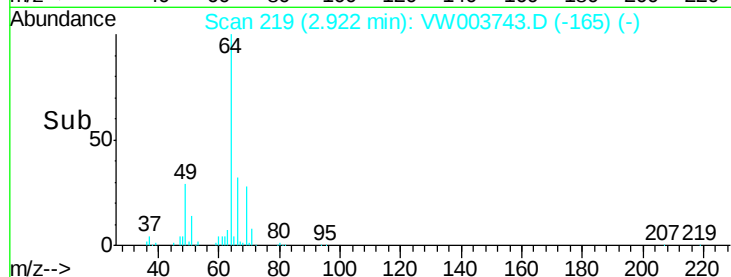
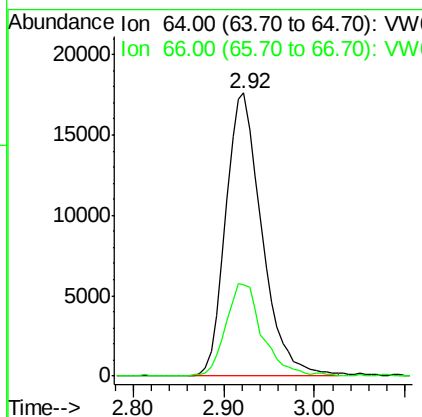
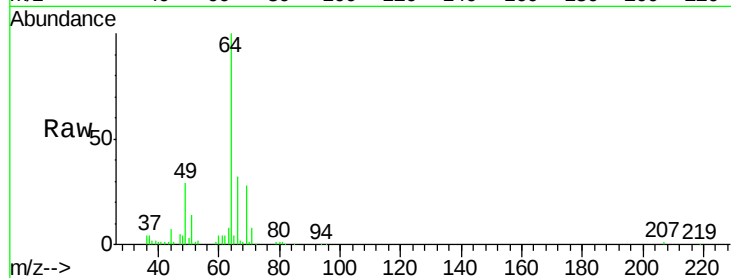
X2D24

Tot Ion: 64 Resp: 48943

Ion Ratio Lower Upper

64 100

66 32.3 21.5 39.9



#12

1,1-Dichloroethene

Concen: 15.54 ug/L

RT: 4.03 min Scan# 401

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

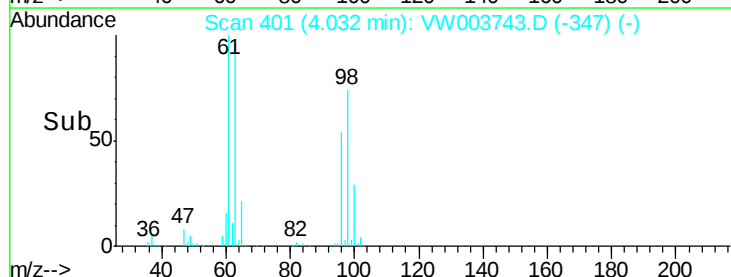
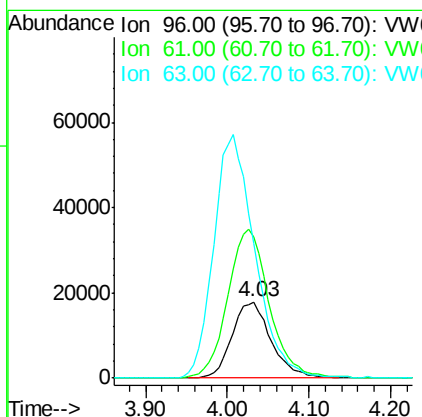
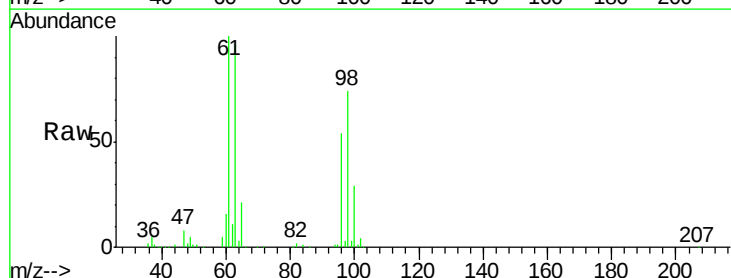
Tgt Ion: 96 Resp: 59508

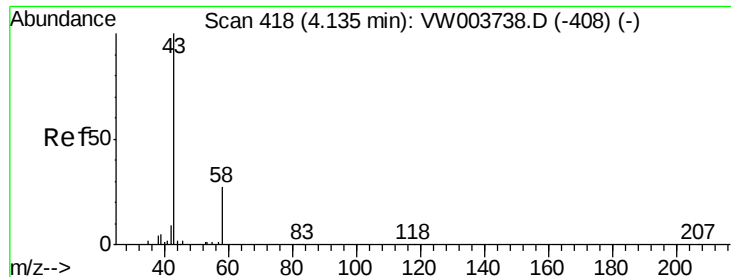
Ion Ratio Lower Upper

96 100

61 184.7 123.8 229.8

63 177.0 94.2 175.0#





#13

Acetone

Concen: 209.21 ug/L

RT: 4.12 min Scan# 415

Delta R.T. -0.02 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

Instrument :

MSVOA_W

ClientSampleId :

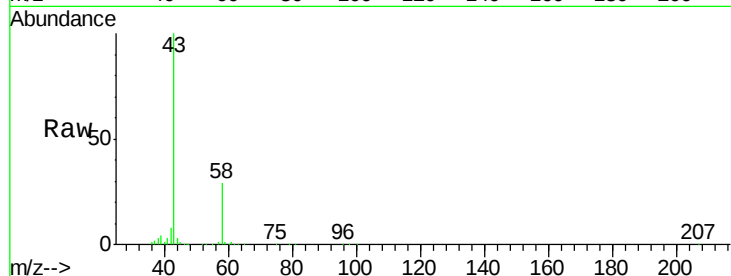
X2D24

Tot Ion: 43 Resp: 313521

Ion Ratio Lower Upper

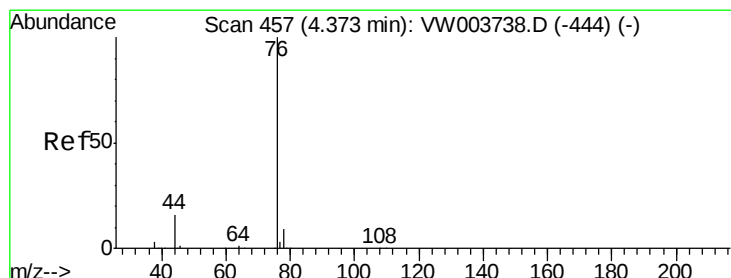
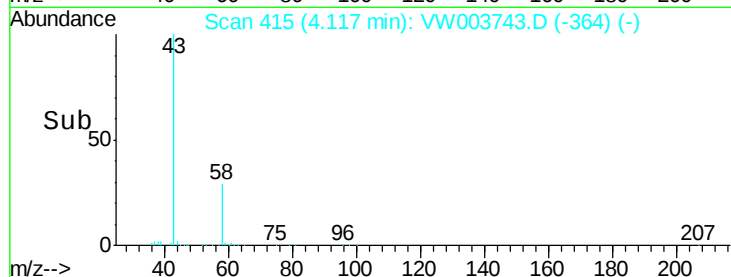
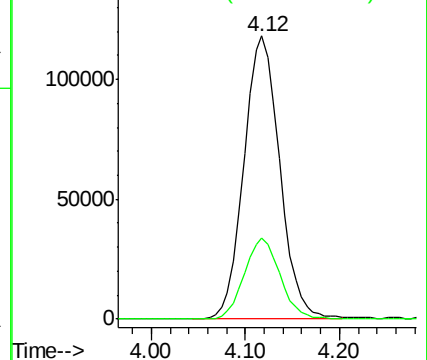
43 100

58 28.6 0.0 0.6#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#14

Carbon disulfide

Concen: 23.91 ug/L

RT: 4.37 min Scan# 456

Delta R.T. -0.01 min

Lab File: VW003743.D

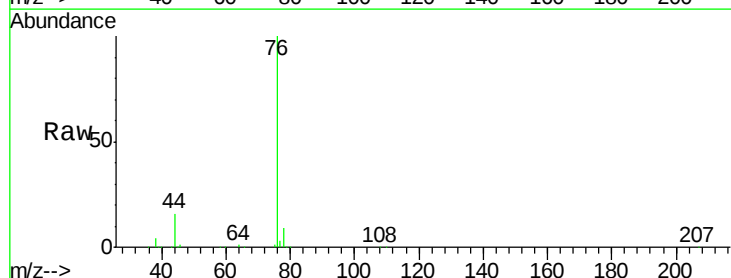
Acq: 06 Jul 2018 17:38

Tgt Ion: 76 Resp: 298586

Ion Ratio Lower Upper

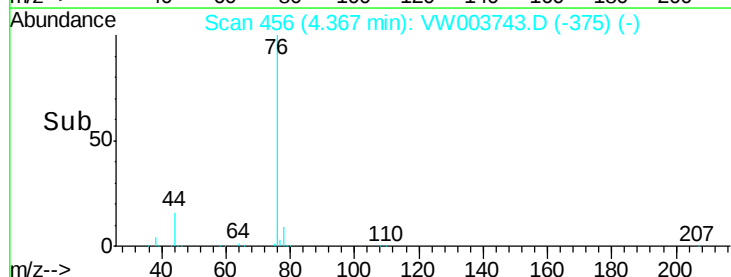
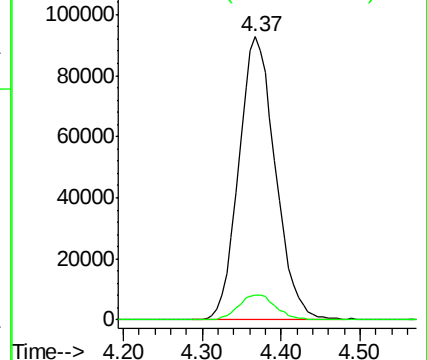
76 100

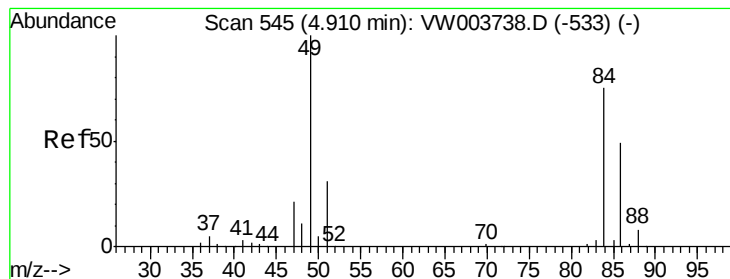
78 8.7 6.9 10.3



Abundance Ion 76.00 (75.70 to 76.70): VW

Ion 78.00 (77.70 to 78.70): VW





#16

Methvlene chloride

Concen: 29.98 ug/L

RT: 4.90 min Scan# 544

Delta R.T. -0.01 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

Instrument :

MSVOA_W

ClientSampled :

X2D24

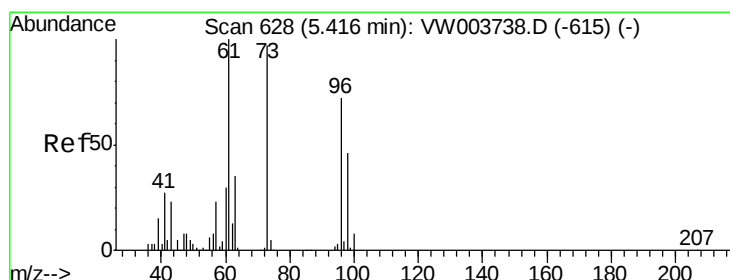
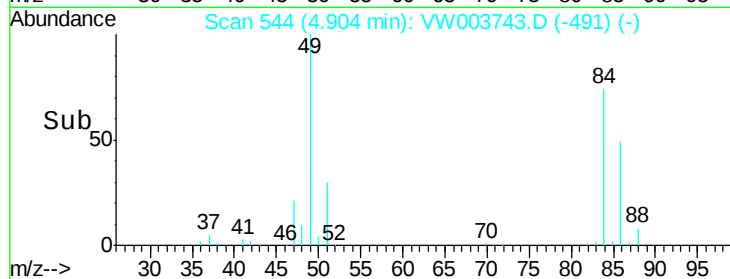
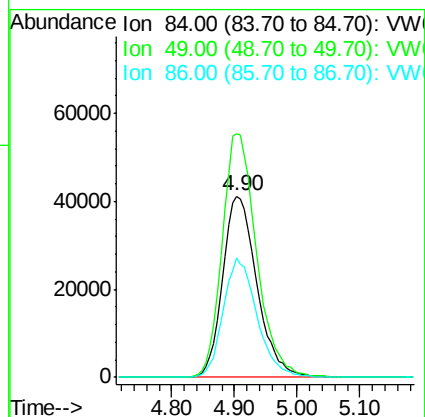
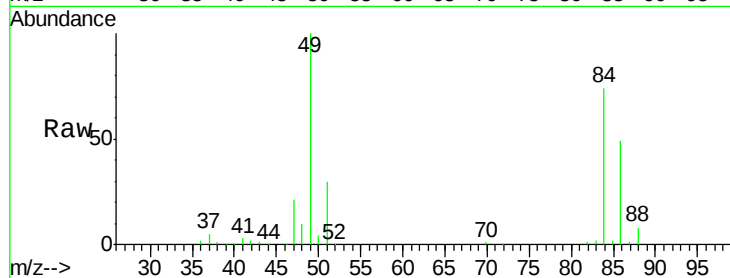
Tot Ion: 84 Resp: 155358

Ion Ratio Lower Upper

84 100

49 134.6 93.5 173.7

86 66.3 45.6 84.8



#18

trans-1,2-Dichloroethene

Concen: 27.09 ug/L

RT: 5.42 min Scan# 628

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

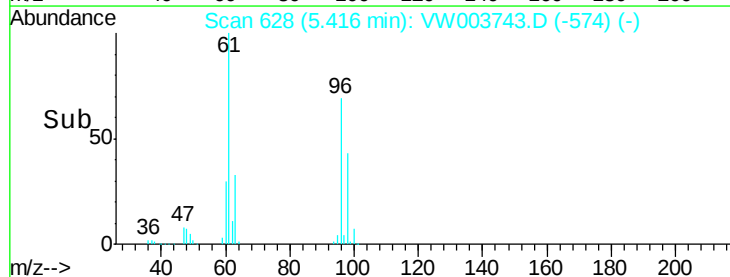
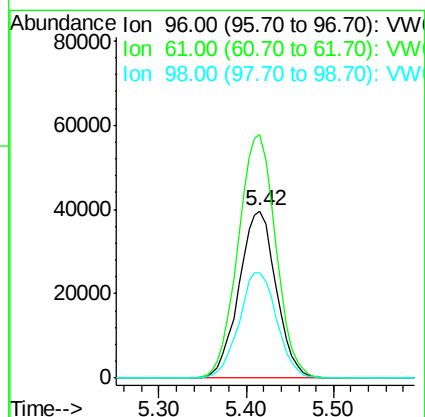
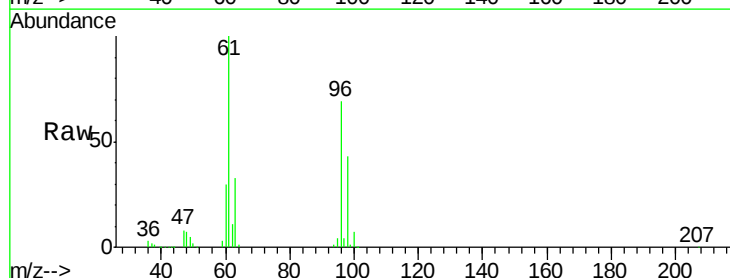
Tgt Ion: 96 Resp: 117081

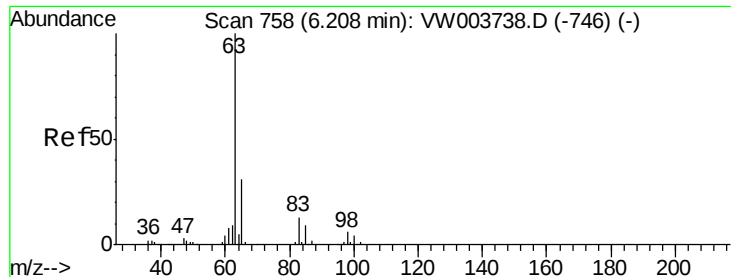
Ion Ratio Lower Upper

96 100

61 145.8 97.5 181.1

98 63.4 44.6 82.8





#19

1,1-Dichloroethane

Concen: 10.71 ug/L

RT: 6.21 min Scan# 758

Delta R.T. 0.00 min

Lab File: VW003743.D

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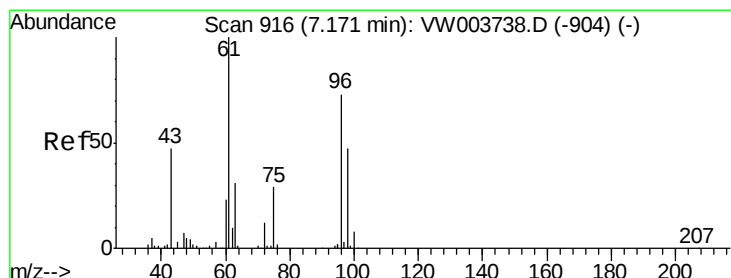
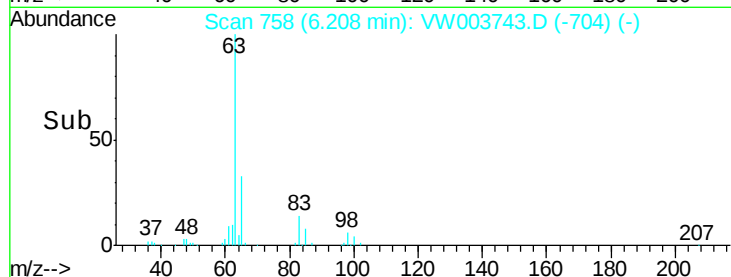
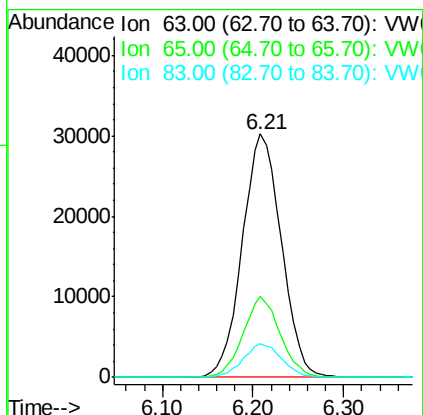
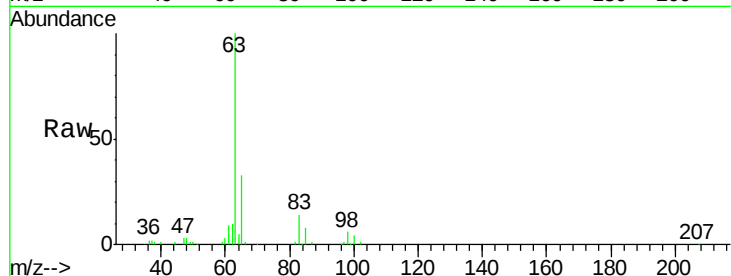
Tot Ion: 63 Resp: 90277

Ion Ratio Lower Upper

63 100

65 33.4 22.0 41.0

83 13.8 9.2 17.2



#22

cis-1,2-Dichloroethene

Concen: 31.00 ug/L

RT: 7.17 min Scan# 915

Delta R.T. -0.01 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

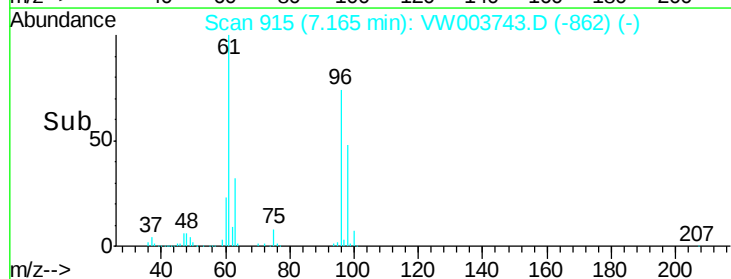
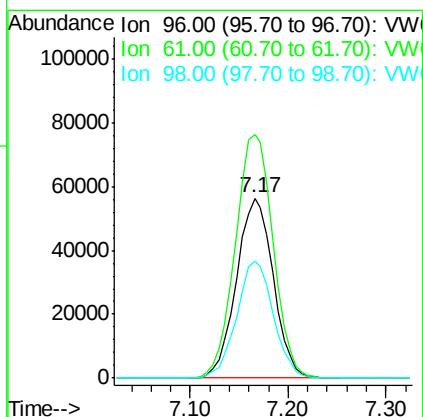
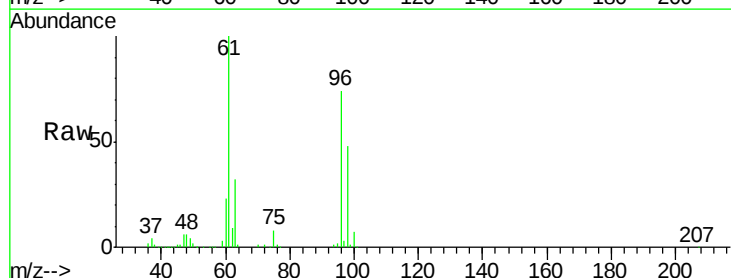
Tgt Ion: 96 Resp: 147254

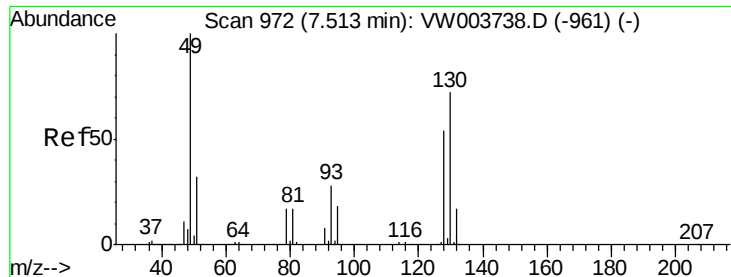
Ion Ratio Lower Upper

96 100

61 135.6 96.3 178.9

98 65.0 45.1 83.7





#23

Bromochloromethane

Concen: 39.40 ug/L

RT: 7.51 min Scan# 972

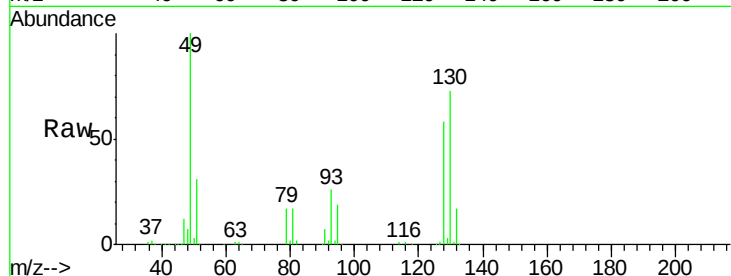
Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

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Tot Ion:	128	Resp:	88527
Ion	Ratio	Lower	Upper
128	100		
49	172.0	129.4	240.2
130	125.3	92.5	171.9
51	54.0	46.9	70.3

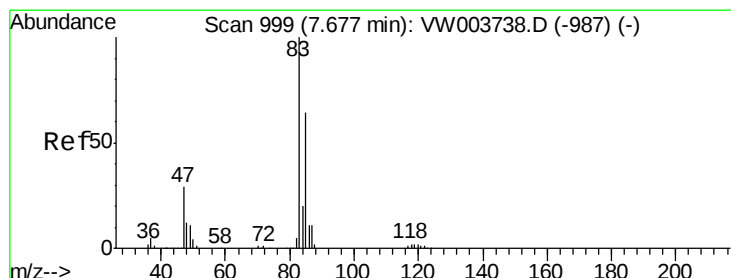
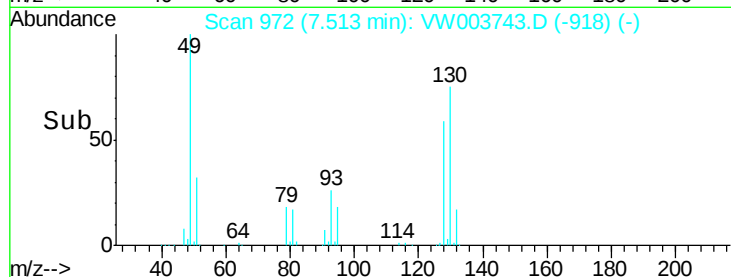
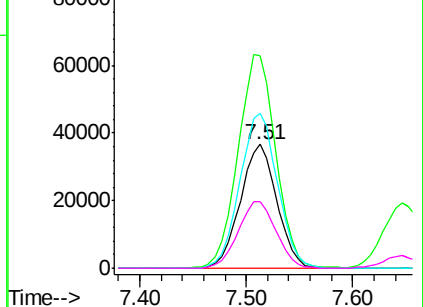


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VW

Ion 130.00 (129.70 to 130.70): V

Ion 51.00 (50.70 to 51.70): VW



#25

Chloroform

Concen: 11.67 ug/L

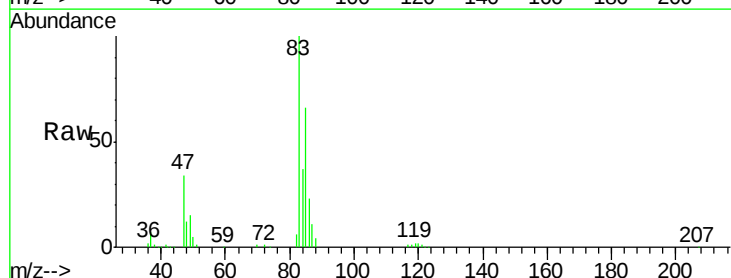
RT: 7.68 min Scan# 999

Delta R.T. 0.00 min

Lab File: VW003743.D

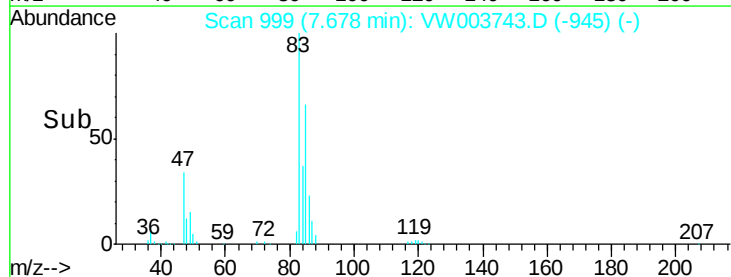
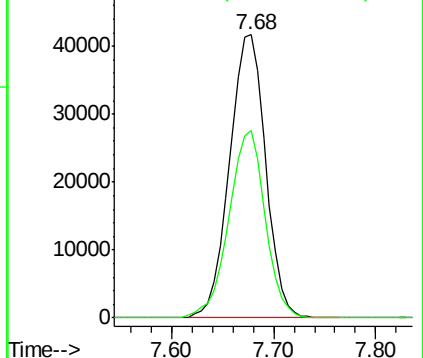
Acq: 06 Jul 2018 17:38

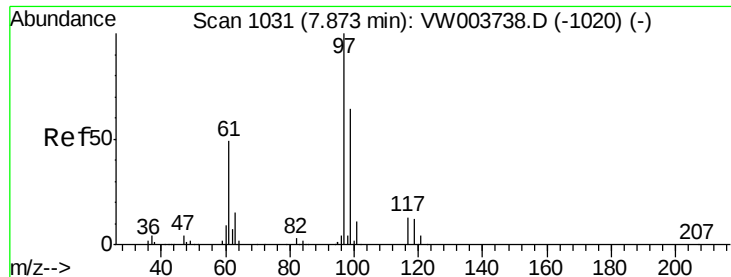
Tgt Ion:	83	Resp:	102205
Ion	Ratio	Lower	Upper
83	100		
85	66.5	45.9	85.3



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW





#31

1,1,1-Trichloroethane

Concen: 41.49 ug/L

RT: 7.87 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

Instrument :

MSVOA_W

ClientSampled :

X2D24

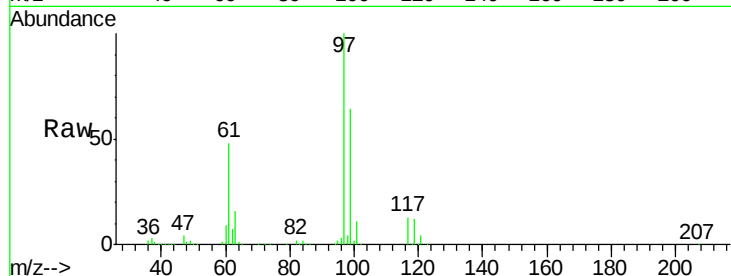
Tot Ion: 97 Resp: 286501

Ion Ratio Lower Upper

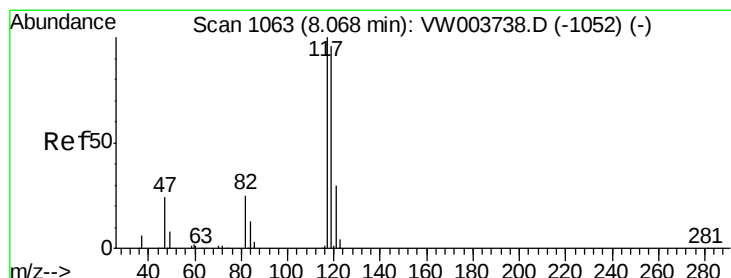
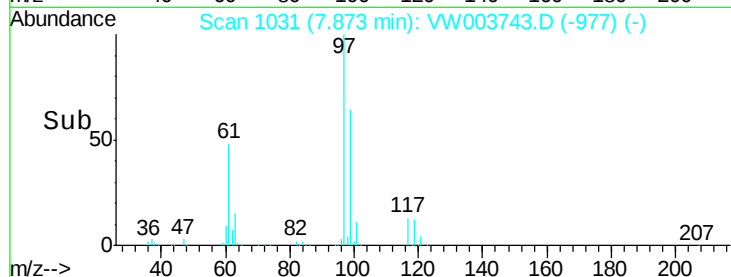
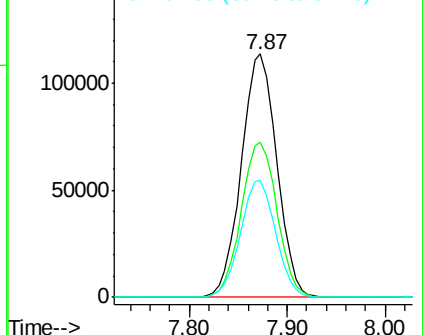
97 100

99 64.2 51.4 77.2

61 47.6 38.2 57.2



Abundance Ion 97.00 (96.70 to 97.70): VW
Ion 99.00 (98.70 to 99.70): VW
Ion 61.00 (60.70 to 61.70): VW



#32

Carbon tetrachloride

Concen: 15.46 ug/L

RT: 8.07 min Scan# 1063

Delta R.T. 0.00 min

Lab File: VW003743.D

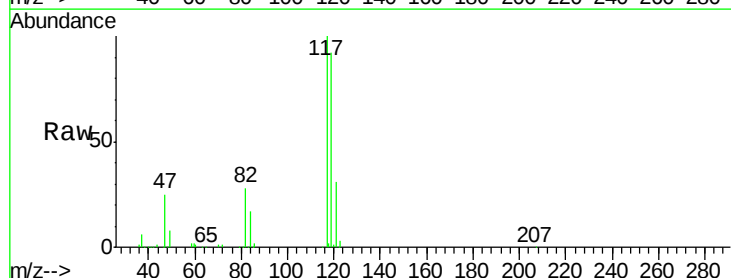
Acq: 06 Jul 2018 17:38

Tgt Ion: 117 Resp: 105245

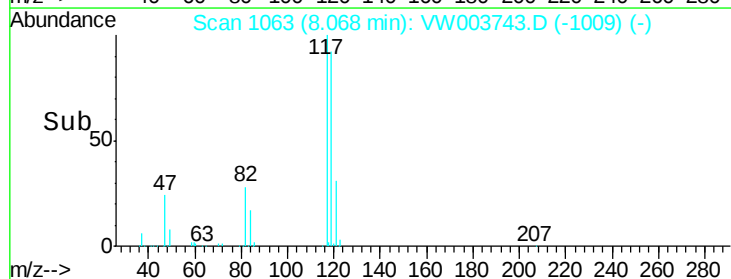
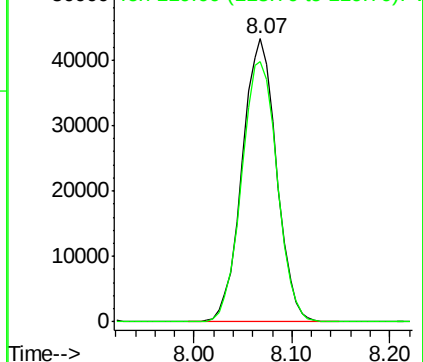
Ion Ratio Lower Upper

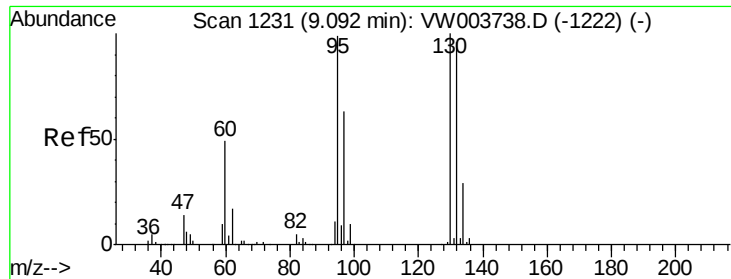
117 100

119 95.0 76.1 114.1



Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V

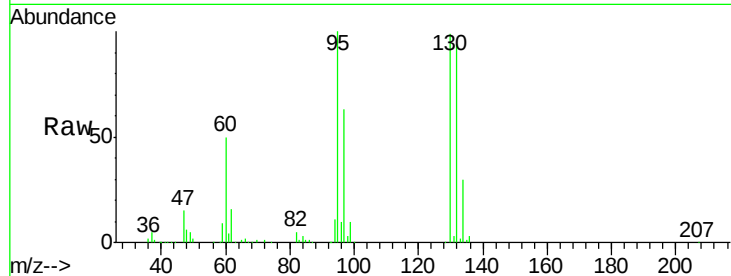




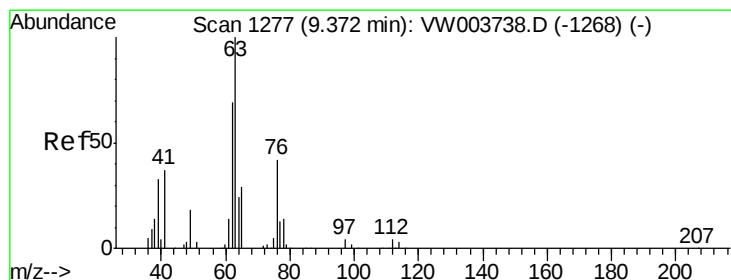
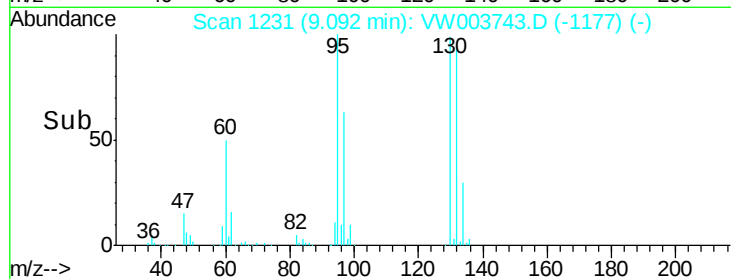
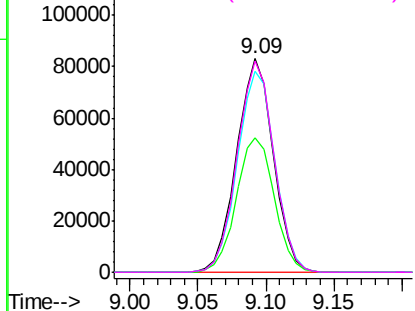
#35
 Trichloroethene
 Concen: 31.45 ug/L
 RT: 9.09 min Scan# 1231
 Delta R.T. 0.00 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

Tot Ion: 95 Resp: 156790
 Ion Ratio Lower Upper
 95 100
 97 64.7 44.6 82.8
 132 96.2 67.3 124.9
 130 99.0 69.3 128.7

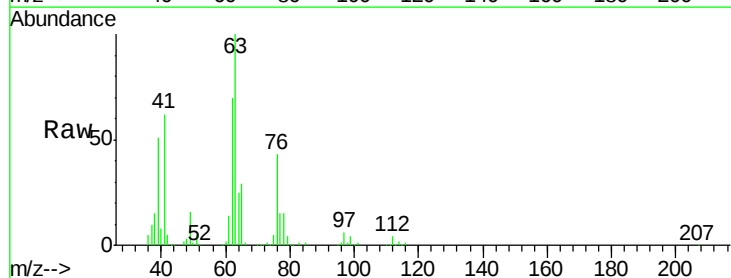


Abundance Ion 95.00 (94.70 to 95.70): VW
 Ion 97.00 (96.70 to 97.70): VW
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

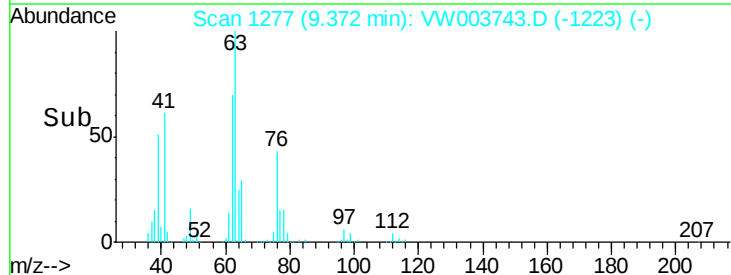
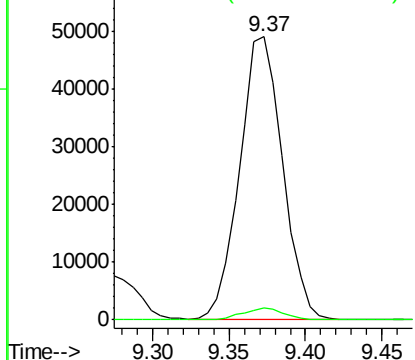


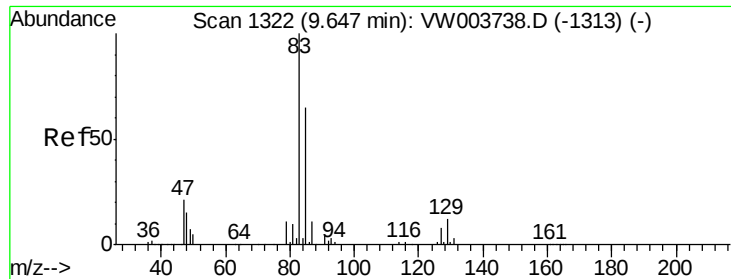
#40
 1,2-Dichloropropane
 Concen: 19.17 ug/L
 RT: 9.37 min Scan# 1277
 Delta R.T. 0.00 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

Tgt Ion: 63 Resp: 95882
 Ion Ratio Lower Upper
 63 100
 112 4.2 3.1 4.7



Abundance Ion 63.00 (62.70 to 63.70): VW
 Ion 112.00 (111.70 to 112.70): V





#41

Bromodichloromethane

Concen: 12.28 ug/L

RT: 9.65 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

Instrument :

MSVOA_W

ClientSampled :

X2D24

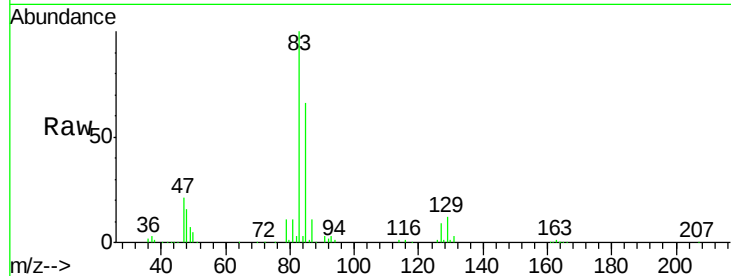
Tot Ion: 83 Resp: 79655

Ion Ratio Lower Upper

83 100

85 66.4 45.8 85.0

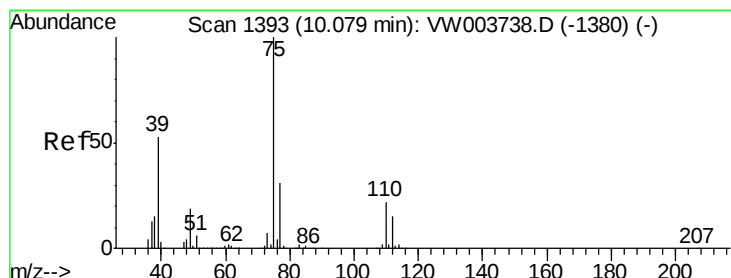
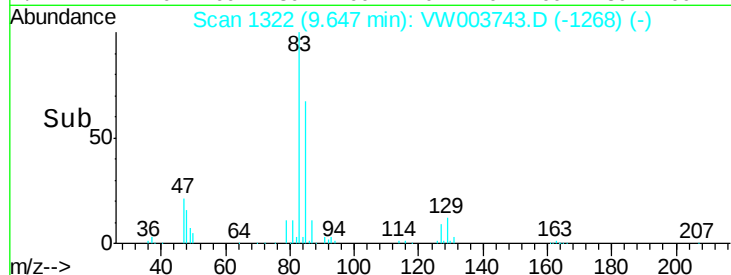
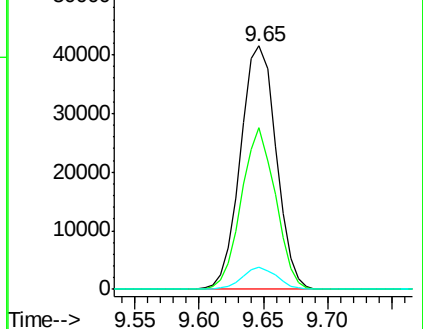
127 8.9 6.6 10.0



Abundance Ion 83.00 (82.70 to 83.70): VW

Ion 85.00 (84.70 to 85.70): VW

Ion 127.00 (126.70 to 127.70): VW



#42

cis-1,3-Dichloropropene

Concen: 11.41 ug/L

RT: 10.07 min Scan# 1392

Delta R.T. -0.01 min

Lab File: VW003743.D

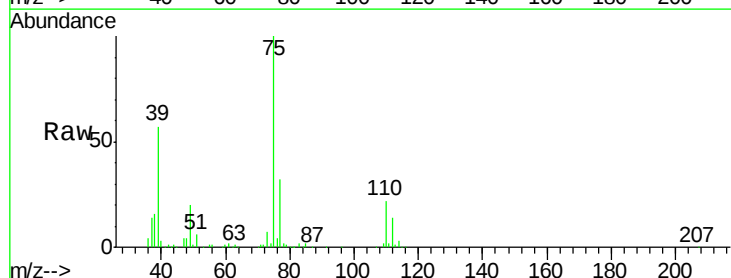
Acq: 06 Jul 2018 17:38

Tgt Ion: 75 Resp: 84543

Ion Ratio Lower Upper

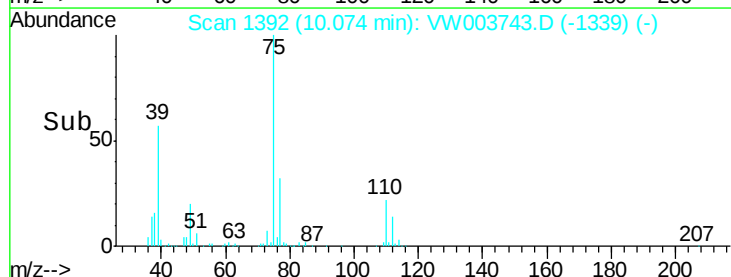
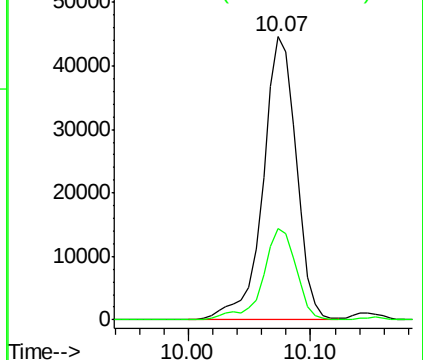
75 100

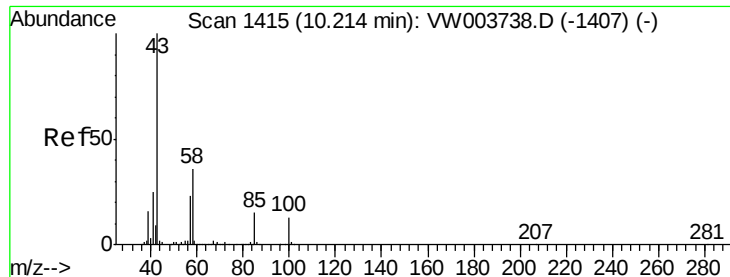
77 32.1 21.4 39.8



Abundance Ion 75.00 (74.70 to 75.70): VW

Ion 77.00 (76.70 to 77.70): VW





#43

4-Methyl-2-pentanone

Concen: 45.57 ug/L

RT: 10.21 min Scan# 1415

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

Instrument :

MSVOA_W

ClientSampleId :

X2D24

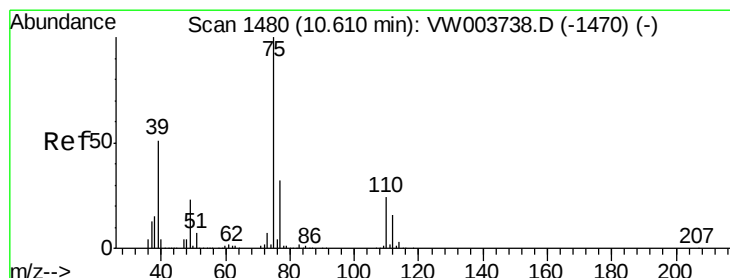
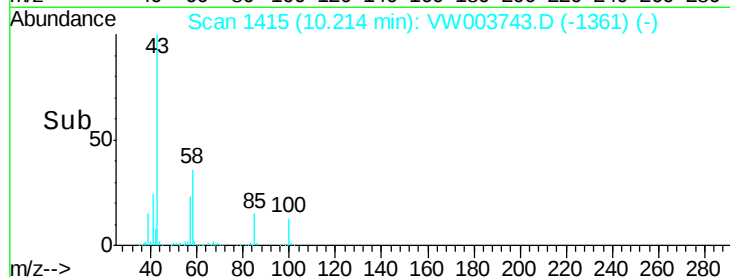
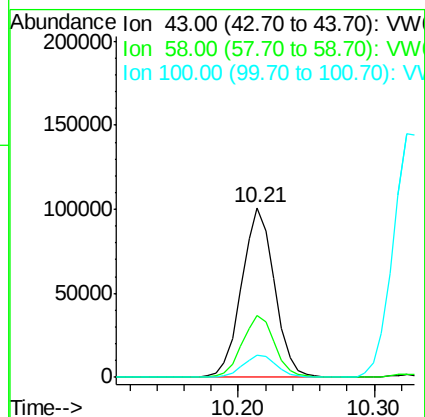
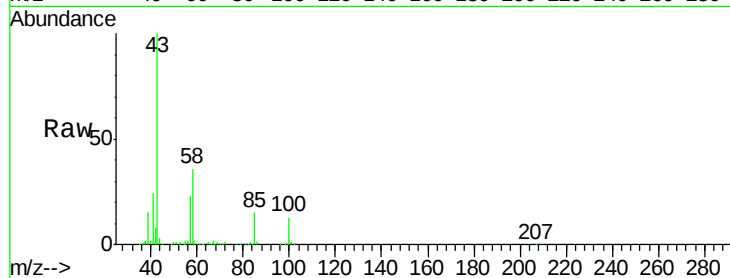
Tot Ion: 43 Resp: 169177

Ion Ratio Lower Upper

43 100

58 36.4 28.6 42.8

100 13.6 10.7 16.1



#45

trans-1,3-Dichloropropene

Concen: 20.24 ug/L

RT: 10.61 min Scan# 1480

Delta R.T. 0.00 min

Lab File: VW003743.D

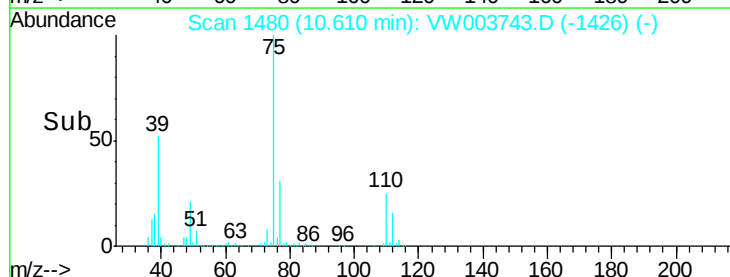
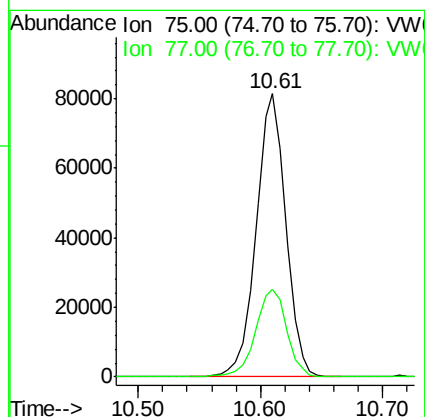
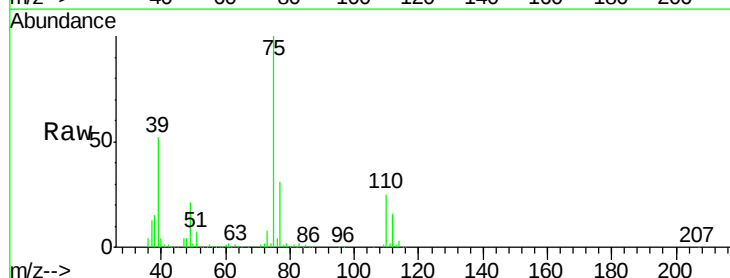
Acq: 06 Jul 2018 17:38

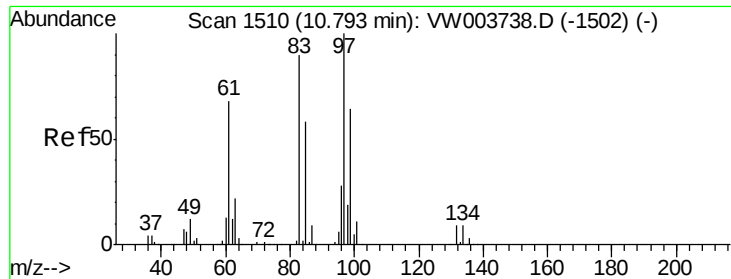
Tgt Ion: 75 Resp: 137721

Ion Ratio Lower Upper

75 100

77 31.1 22.8 42.4

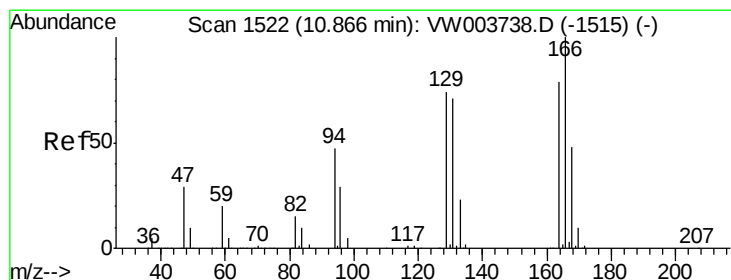
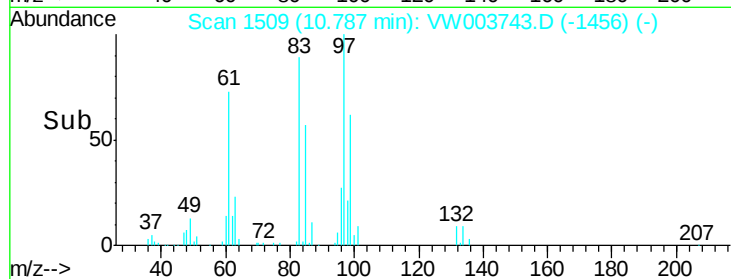
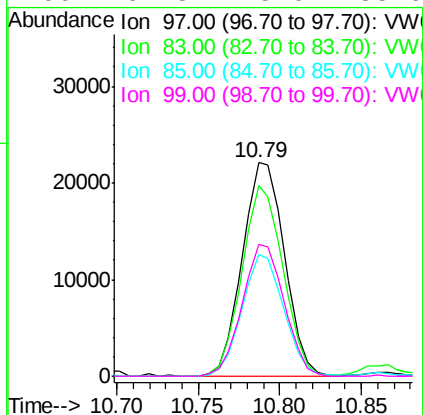
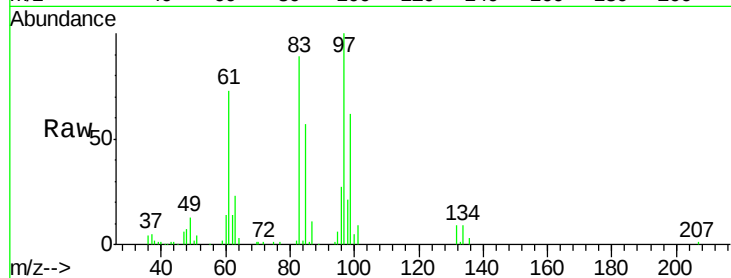




#46
 1,1,2-Trichloroethane
 Concen: 10.41 ug/L
 RT: 10.79 min Scan# 1509
 Delta R.T. -0.01 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

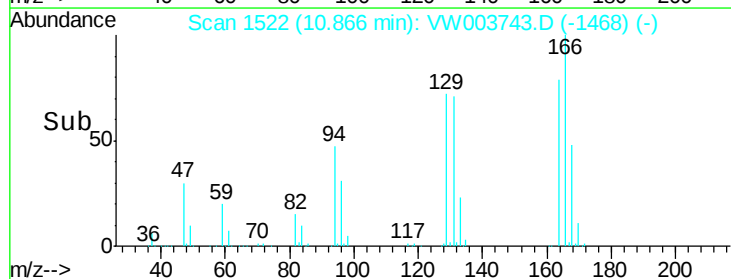
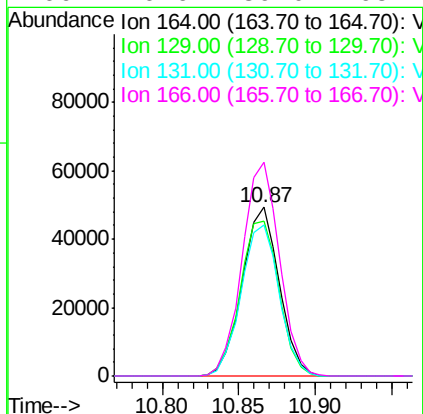
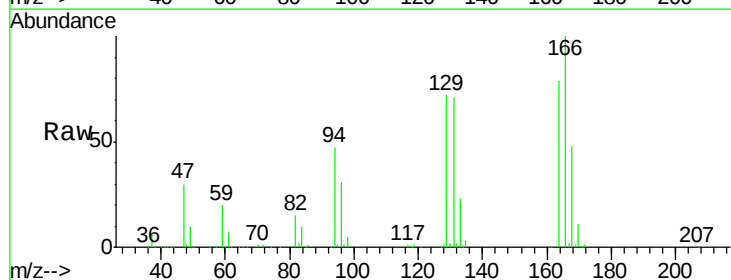
Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

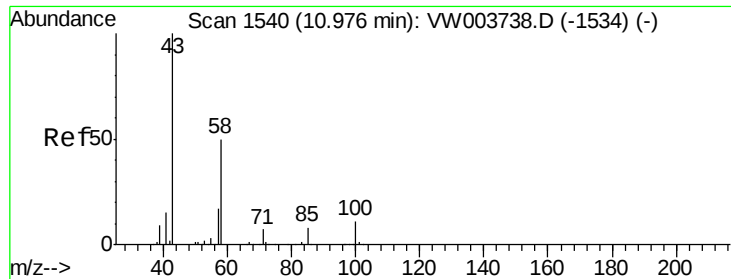
Tot Ion: 97 Resp: 39969
 Ion Ratio Lower Upper
 97 100
 83 89.4 62.7 116.5
 85 57.0 40.3 74.9
 99 61.8 45.0 83.6



#47
 Tetrachloroethene
 Concen: 20.00 ug/L
 RT: 10.87 min Scan# 1522
 Delta R.T. 0.00 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

Tgt Ion: 164 Resp: 83287
 Ion Ratio Lower Upper
 164 100
 129 91.6 65.9 122.3
 131 89.6 63.4 117.8
 166 126.6 89.0 165.4

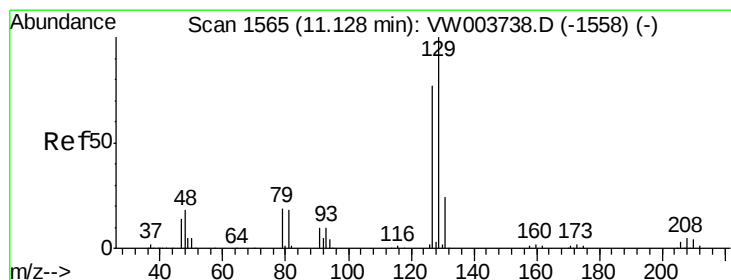
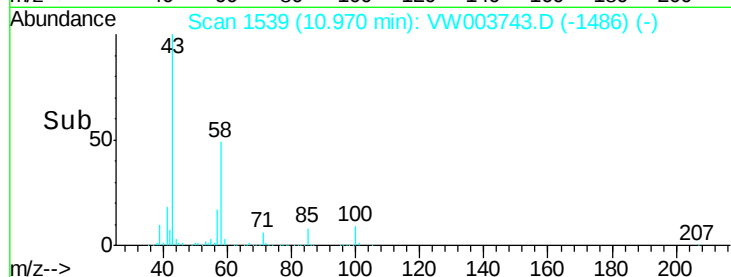
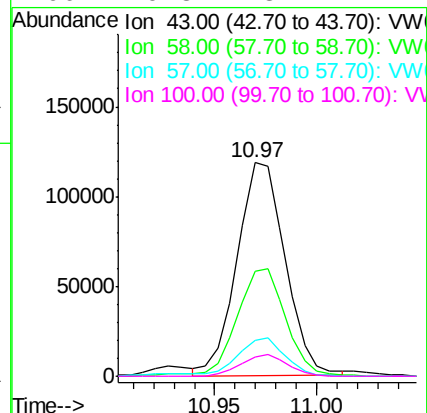
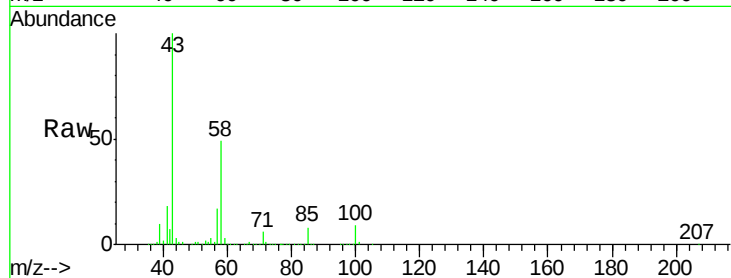




#49
2-Hexanone
Concen: 68.25 ug/L
RT: 10.97 min Scan# 1539
Delta R.T. -0.01 min
Lab File: VW003743.D
Acq: 06 Jul 2018 17:38

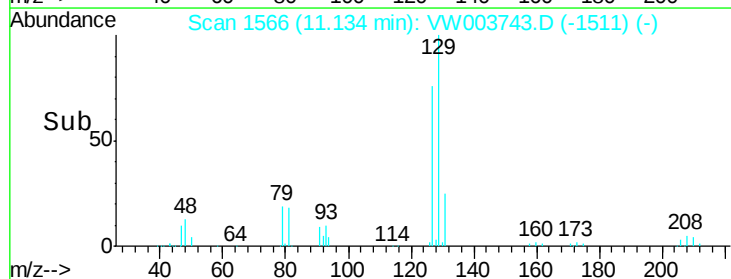
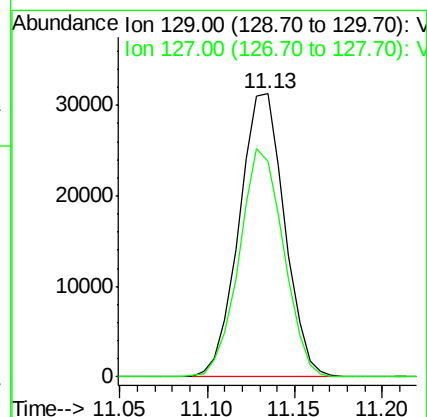
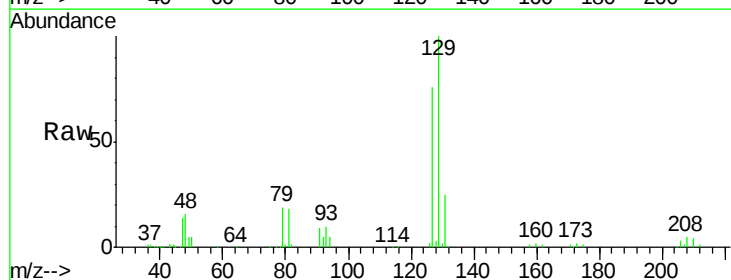
Instrument :
MSVOA_W
ClientSampled :
X2D24

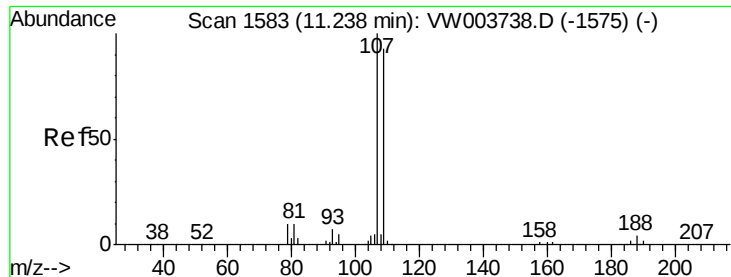
Tot Ion: 43 Resp: 195119
Ion Ratio Lower Upper
43 100
58 50.6 39.4 59.2
57 17.6 14.2 21.4
100 9.8 8.2 12.4



#50
Dibromochloromethane
Concen: 12.39 ug/L
RT: 11.13 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VW003743.D
Acq: 06 Jul 2018 17:38

Tgt Ion: 129 Resp: 56621
Ion Ratio Lower Upper
129 100
127 76.1 54.0 100.2

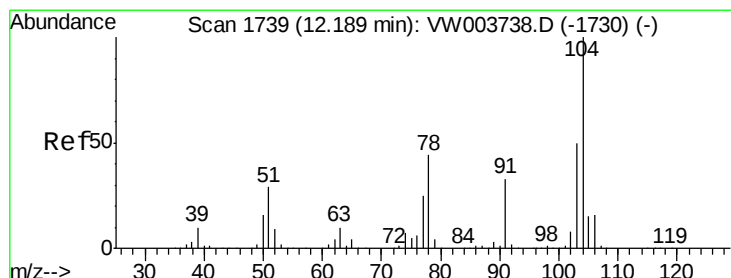
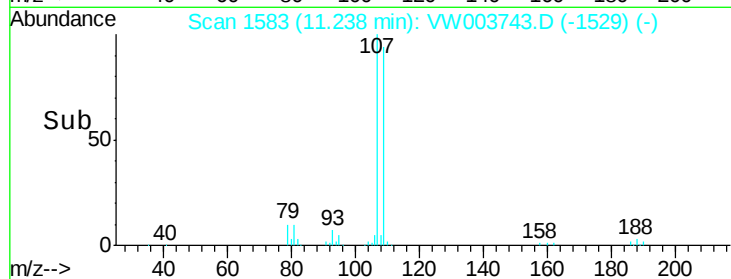
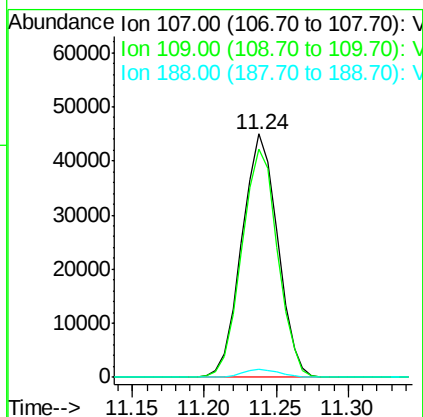
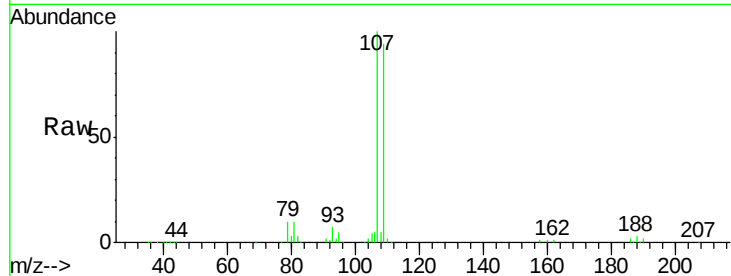




#51
 1,2-Dibromoethane
 Concen: 20.94 ug/L
 RT: 11.24 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

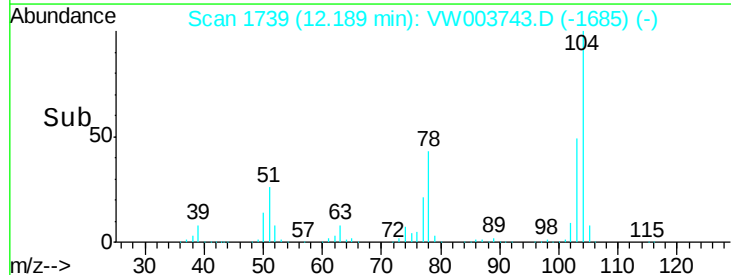
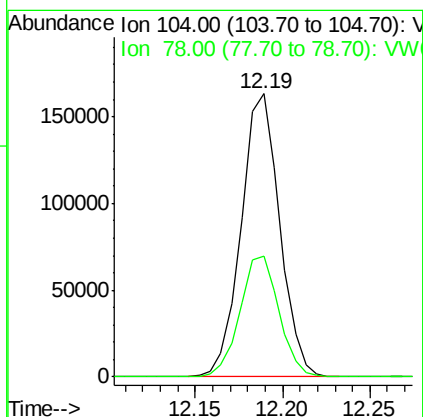
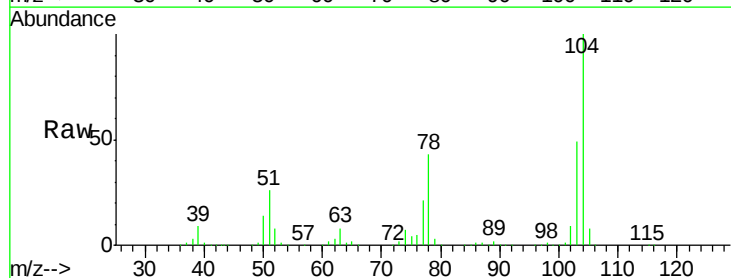
Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

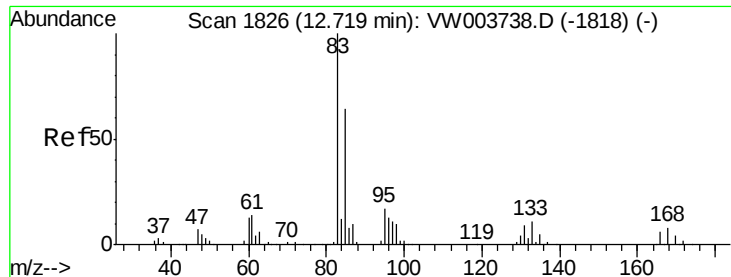
Tot Ion:107 Resp: 77608
 Ion Ratio Lower Upper
 107 100
 109 93.5 64.8 120.3
 188 3.6 3.4 5.0



#56
 Styrene
 Concen: 18.06 ug/L
 RT: 12.19 min Scan# 1739
 Delta R.T. 0.00 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

Tgt Ion:104 Resp: 250388
 Ion Ratio Lower Upper
 104 100
 78 42.6 30.9 57.3





#58

1,1,2,2-Tetrachloroethane

Concen: 30.30 ug/L

RT: 12.72 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

Instrument :

MSVOA_W

ClientSampled :

X2D24

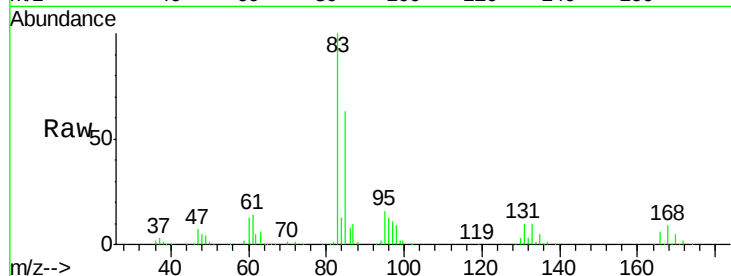
Tot Ion: 83 Resp: 156224

Ion Ratio Lower Upper

83 100

85 62.9 45.1 83.9

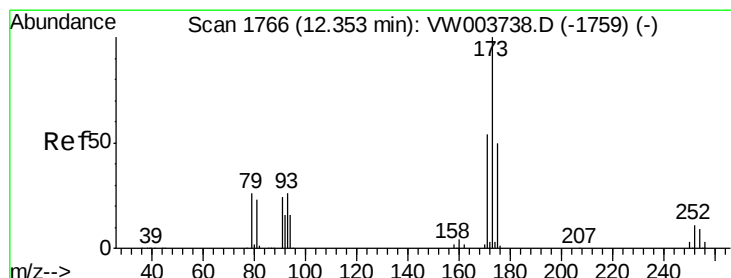
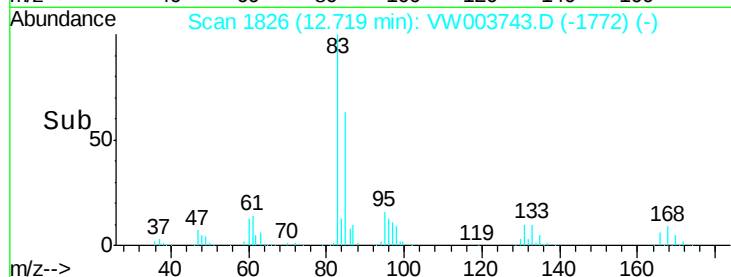
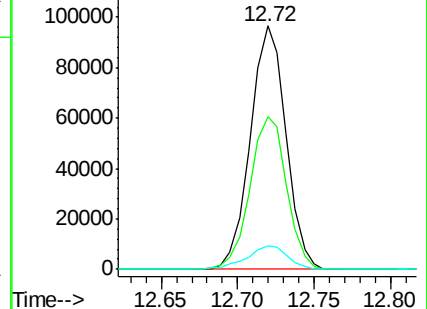
131 9.9 7.5 11.3



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



#62

Bromoform

Concen: 19.71 ug/L

RT: 12.35 min Scan# 1766

Delta R.T. 0.00 min

Lab File: VW003743.D

Acq: 06 Jul 2018 17:38

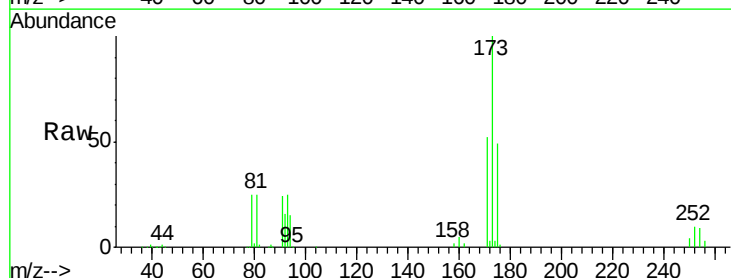
Tgt Ion: 173 Resp: 58449

Ion Ratio Lower Upper

173 100

175 49.5 39.5 59.3

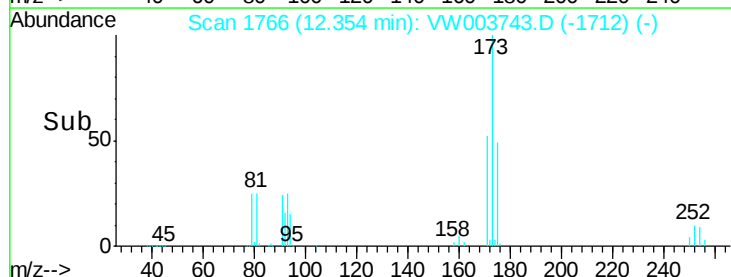
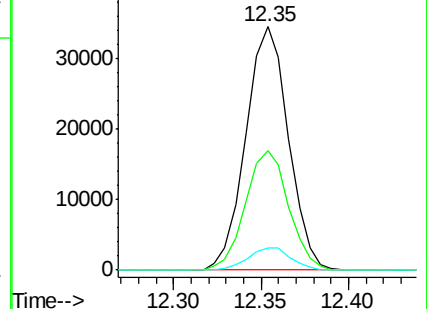
254 9.4 7.4 11.0

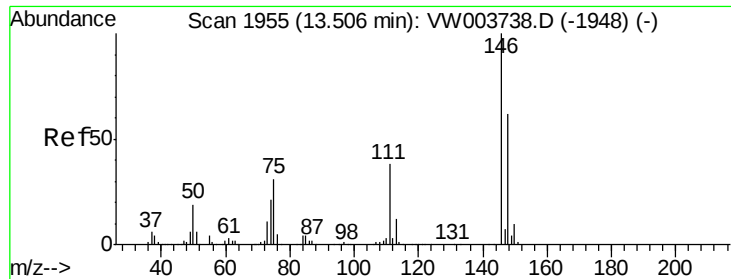


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

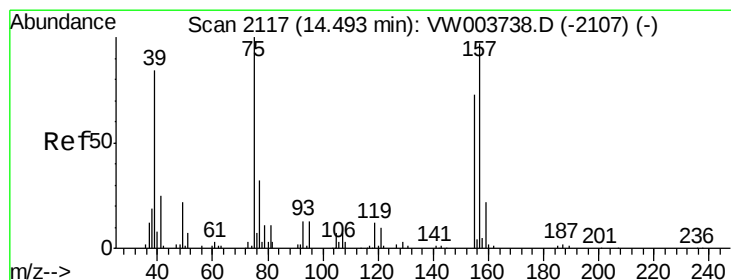
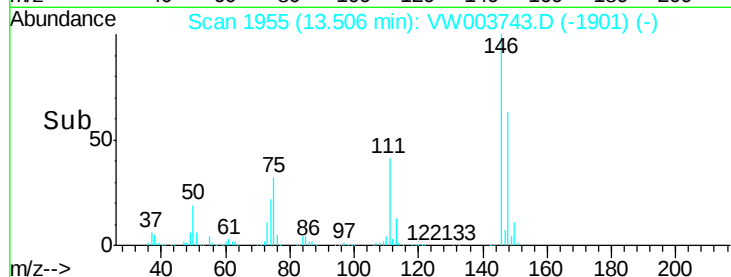
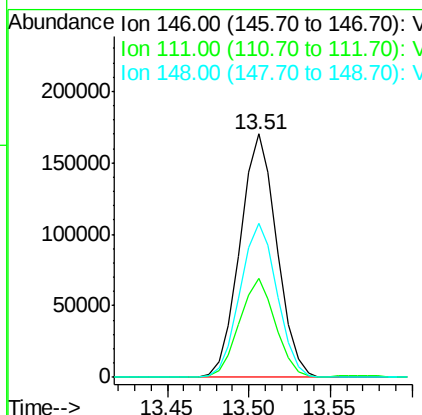
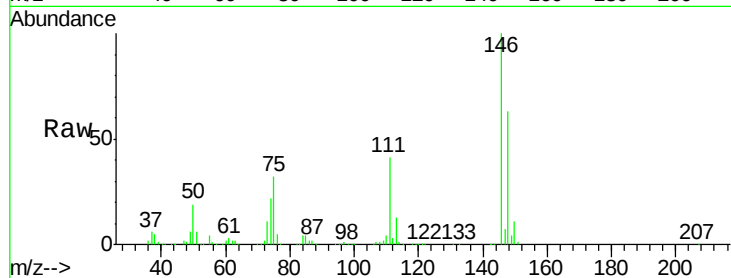




#63
 1,3-Dichlorobenzene
 Concen: 26.09 ug/L
 RT: 13.51 min Scan# 1955
 Delta R.T. 0.00 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

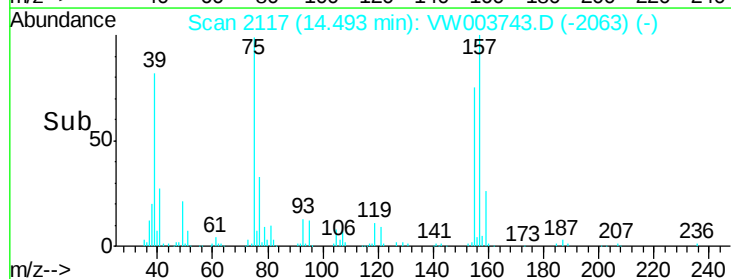
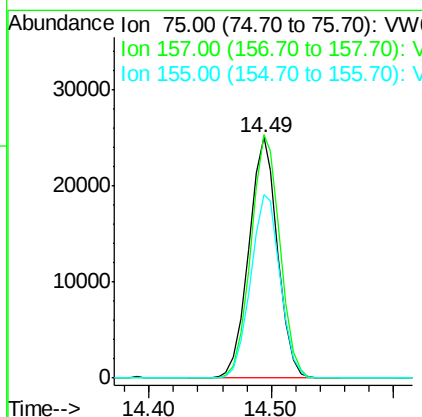
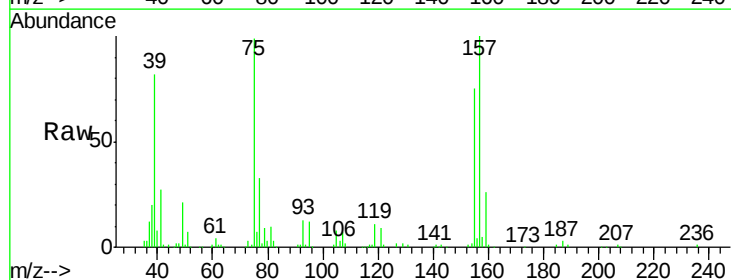
Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

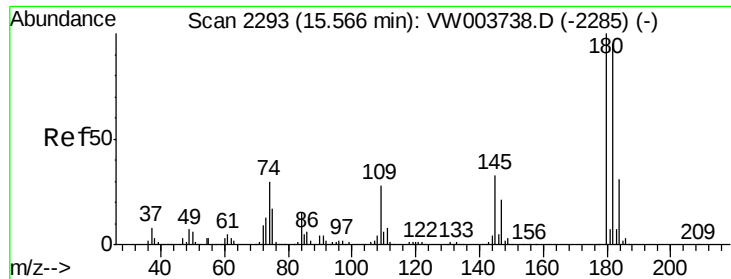
Tot Ion:146 Resp: 267675
 Ion Ratio Lower Upper
 146 100
 111 40.8 26.9 50.1
 148 63.3 43.2 80.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 43.27 ug/L
 RT: 14.49 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

Tgt Ion: 75 Resp: 40685
 Ion Ratio Lower Upper
 75 100
 157 101.1 77.3 115.9
 155 76.3 58.2 87.2





#70
 1,2,3-Trichlorobenzene
 Concen: 8.93 ug/L
 RT: 15.57 min Scan# 2293
 Delta R.T. 0.00 min
 Lab File: VW003743.D
 Acq: 06 Jul 2018 17:38

Instrument :
 MSVOA_W
 ClientSampleId :
 X2D24

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.3	75.4	113.2
145	32.1	25.0	37.6

