

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW090418\
 Data File : VW005084.D
 Acq On : 04 Sep 2018 17:15
 Operator : SY/AP
 Sample : J4699-04
 Misc : 7.40G/5ML/MSVOA W/SOIL
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Sep 04 18:03:27 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W090118S.M
 Quant Title : SW846 8260
 QLast Update : Sat Sep 01 03:35:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.96	168	14113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	31790	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.64	117	30068	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	14045	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.32	65	21147	180.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	361.52%	
35) Dibromofluoromethane	7.89	113	13539	73.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	147.40%	
50) Toluene-d8	10.33	98	16791	19.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.68%	
62) 4-Bromofluorobenzene	12.62	95	10275	34.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	68.84%	

Target Compounds

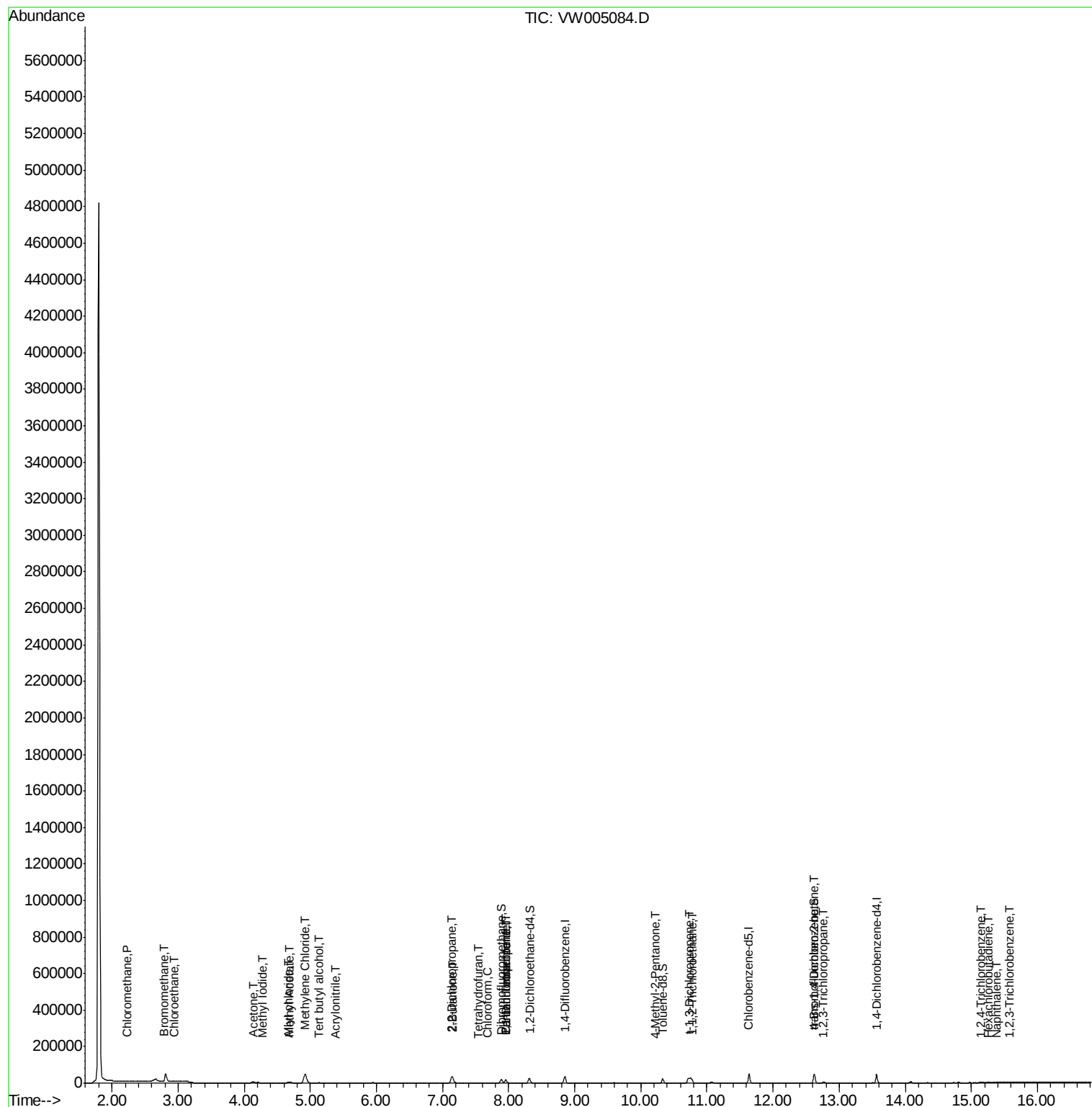
						Qvalue
3) Chloromethane	2.23	50	324	1.963	ug/l	98
5) Bromomethane	2.78	94	1055	6.441	ug/l #	58
6) Chloroethane	2.93	64	167	1.672	ug/l #	43
10) Methyl Iodide	4.28	142	1128	9.441	ug/l #	81
11) Tert butyl alcohol	5.14	59	1975	305.128	ug/l #	72
14) Allyl chloride	4.66	41	258	1.446	ug/l #	26
15) Acrylonitrile	5.37	53	41	1.488	ug/l #	18
16) Acetone	4.14	43	12445	530.428	ug/l	94
18) Methyl Acetate	4.68	43	11706	169.605	ug/l	95
20) Methylene Chloride	4.92	84	39199	263.980	ug/l #	91
25) 2-Butanone	7.14	43	1689	41.504	ug/l #	46
26) 2,2-Dichloropropane	7.13	77	2496	12.945	ug/l #	51
29) Tetrahydrofuran	7.54	42	155	7.454	ug/l #	31
30) Chloroform	7.68	83	436	1.821	ug/l #	72
36) 1,1-Dichloropropene	7.96	75	1074	3.547	ug/l #	40
38) Carbon Tetrachloride	7.95	117	1403	4.874	ug/l #	12
51) 4-Methyl-2-Pentanone	10.22	43	259	1.876	ug/l #	65
53) t-1,3-Dichloropropene	10.73	75	887	3.311	ug/l #	52
55) 1,1,2-Trichloroethane	10.78	97	181	1.080	ug/l #	16
76) 1,2,3-Trichloropropane	12.76	75	151	1.432	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	4518	103.148	ug/l #	14
93) 1,2,4-Trichlorobenzene	15.15	180	672	2.294	ug/l	92
94) Hexachlorobutadiene	15.25	225	349	1.916	ug/l	86
95) Naphthalene	15.38	128	1349	6.431	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.57	180	539	2.150	ug/l #	83

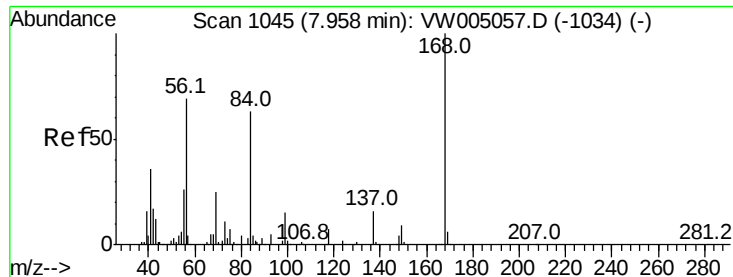
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.96 min Scan# 1045

Delta R.T. -0.00 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

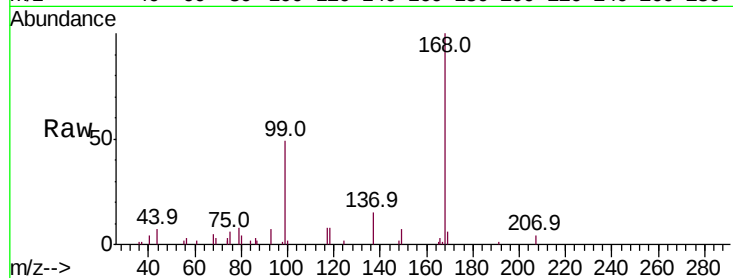
Instrument :
MSVOA_W
ClientSampleId :

Tot Ion:168 Resp: 14113

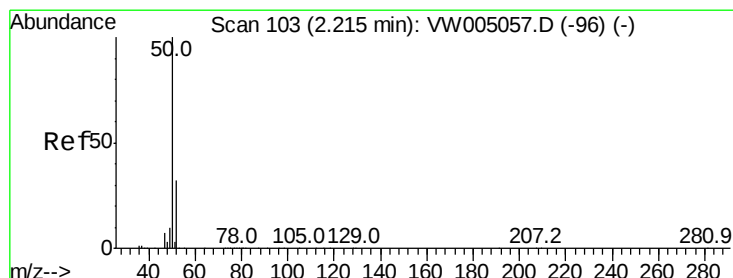
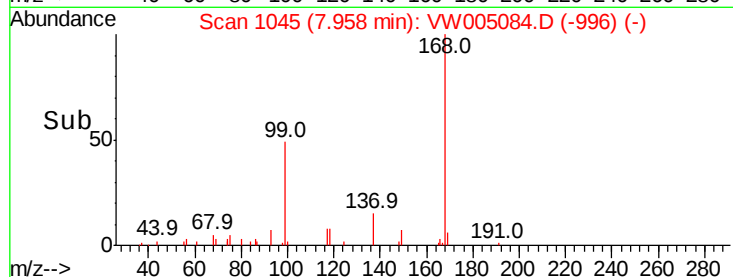
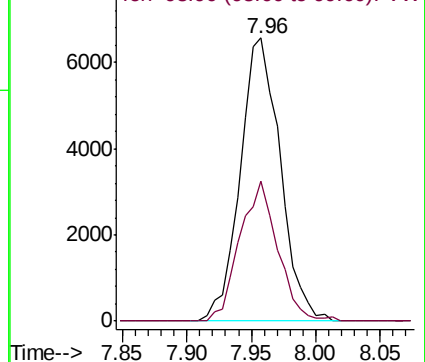
Ion Ratio Lower Upper

168 100

99 49.5 39.4 59.0



Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.963 ug/l

RT: 2.23 min Scan# 105

Delta R.T. 0.01 min

Lab File: VW005084.D

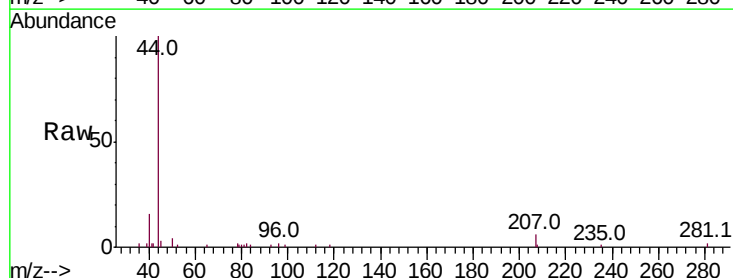
Acq: 04 Sep 2018 17:15

Tgt Ion: 50 Resp: 324

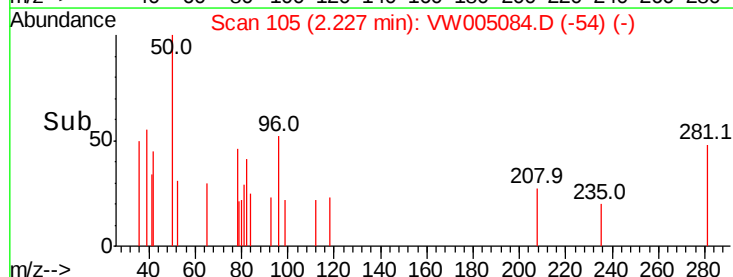
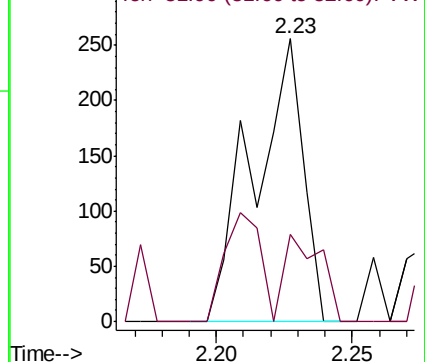
Ion Ratio Lower Upper

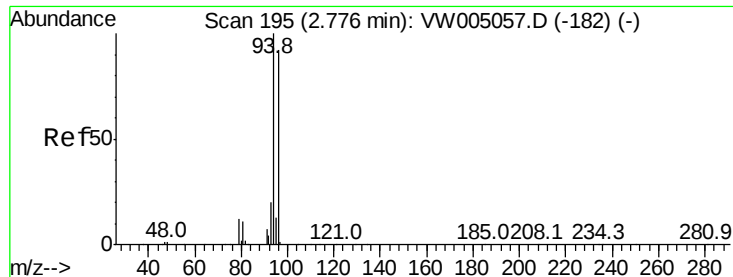
50 100

52 30.9 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VW
Ion 51.90 (51.60 to 52.60): VW





#5

Bromomethane

Concen: 6.441 ug/l

RT: 2.78 min Scan# 196

Delta R.T. 0.01 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :

MSVOA_W

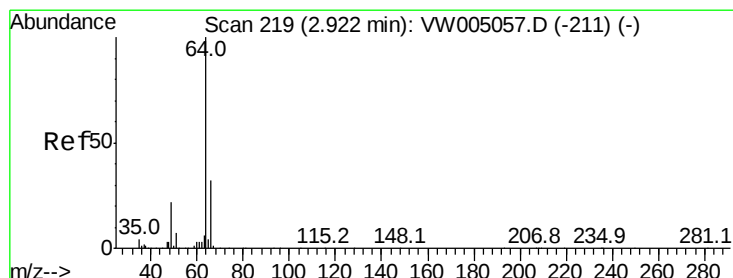
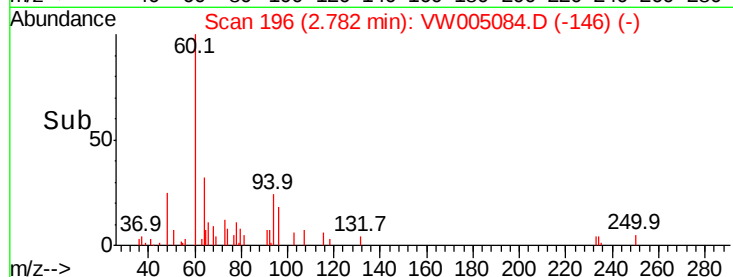
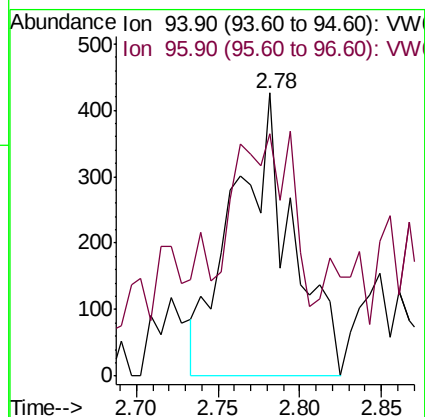
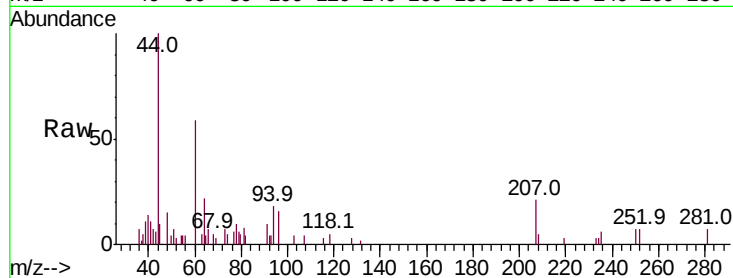
ClientSampled :

Tot Ion: 94 Resp: 1055

Ion Ratio Lower Upper

94 100

96 51.6 73.2 109.8#



#6

Chloroethane

Concen: 1.672 ug/l

RT: 2.93 min Scan# 221

Delta R.T. 0.01 min

Lab File: VW005084.D

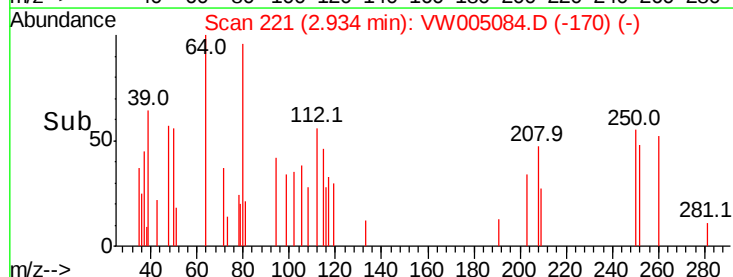
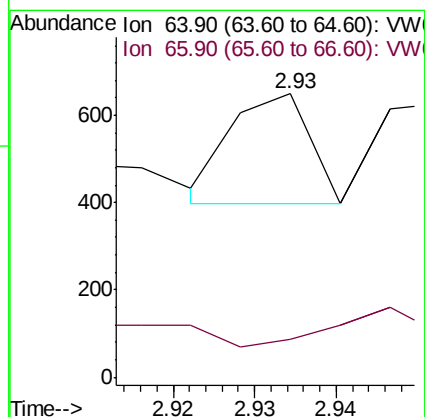
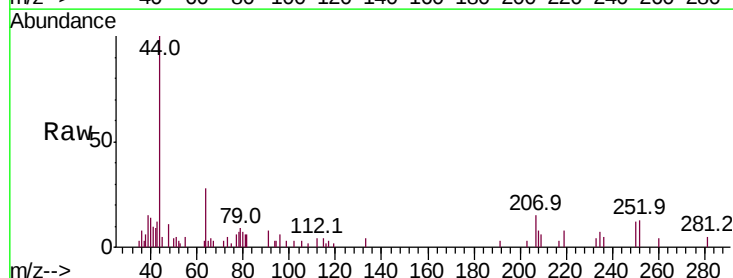
Acq: 04 Sep 2018 17:15

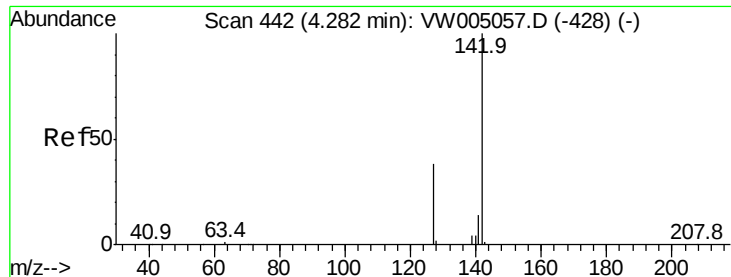
Tgt Ion: 64 Resp: 167

Ion Ratio Lower Upper

64 100

66 0.0 25.7 38.5#

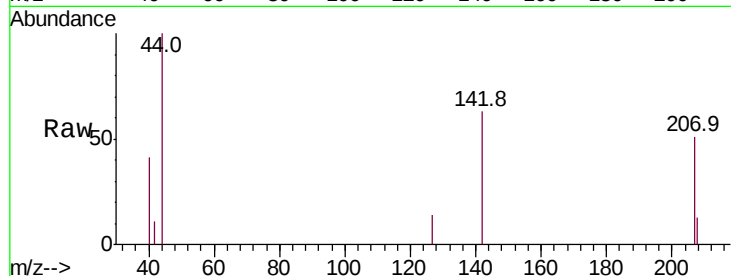




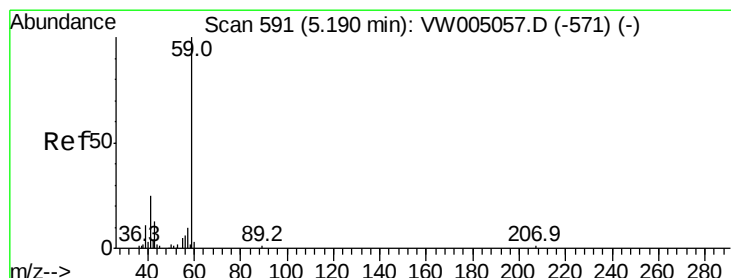
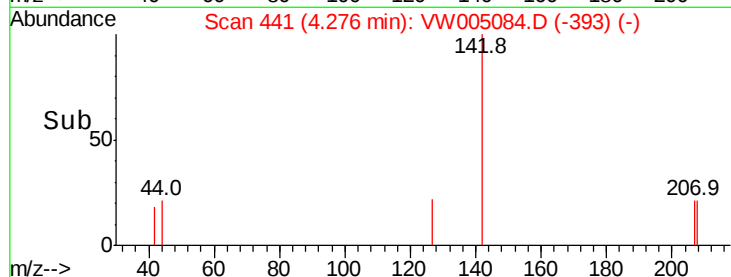
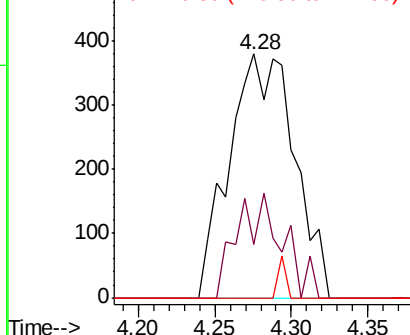
#10
Methyl Iodide
Concen: 9.441 ug/l
RT: 4.28 min Scan# 441
Delta R.T. -0.01 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:142 Resp: 1128
Ion Ratio Lower Upper
142 100
127 29.4 30.8 46.2#
141 2.1 11.6 17.4#

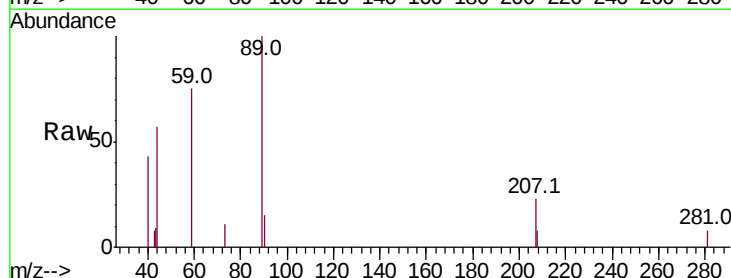


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

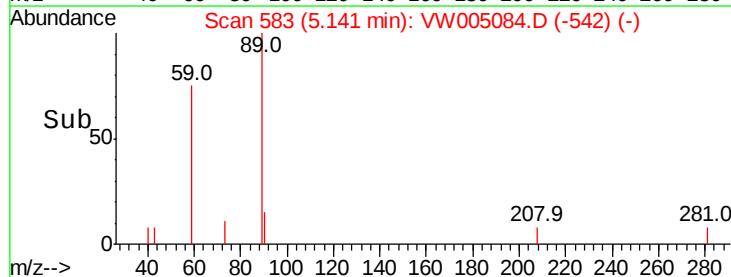
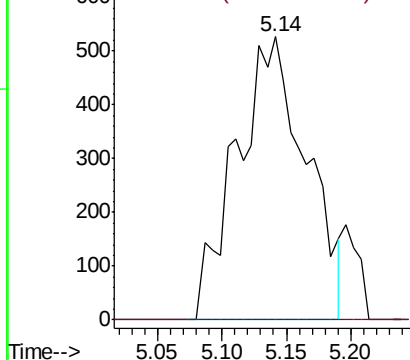


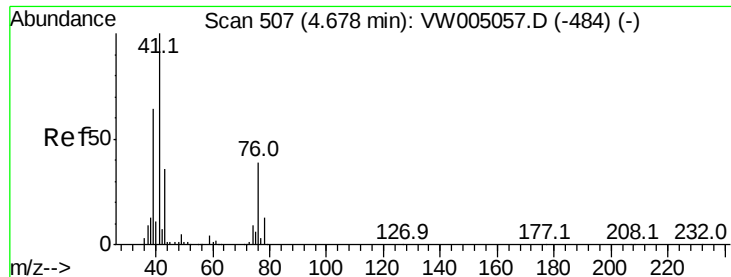
#11
Tert butyl alcohol
Concen: 305.128 ug/l
RT: 5.14 min Scan# 583
Delta R.T. -0.05 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

Tgt Ion: 59 Resp: 1975
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VW
Ion 57.00 (56.70 to 57.70): VW

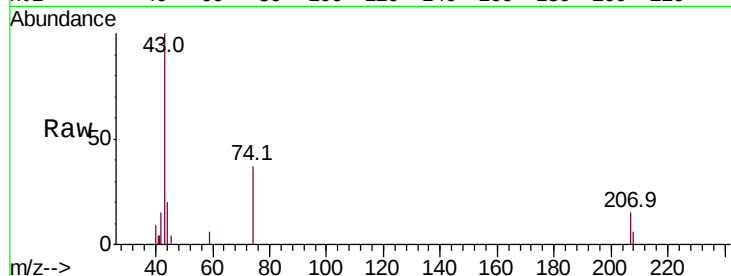




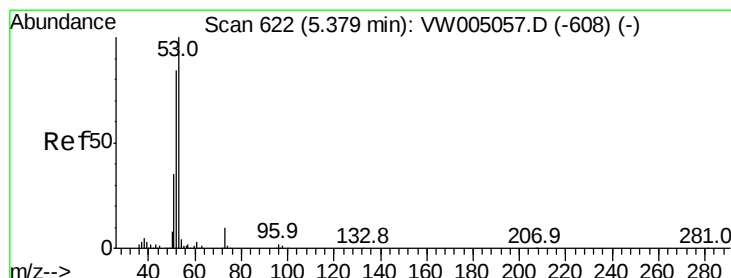
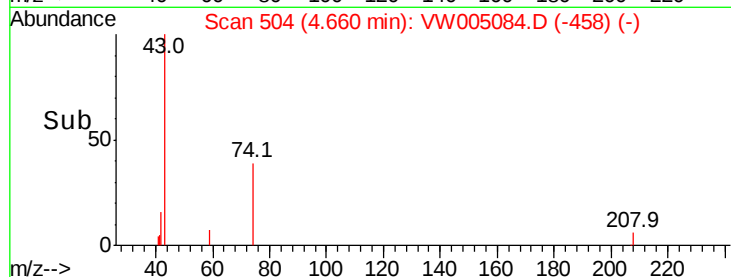
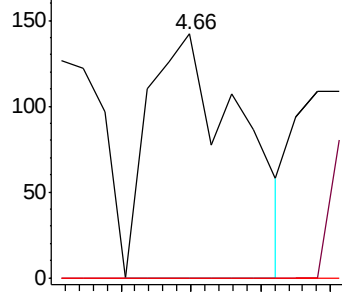
#14
Allvl chloride
Concen: 1.446 ug/l
RT: 4.66 min Scan# 504
Delta R.T. -0.02 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

Instrument :
MSVOA_W
ClientSampled :

Tot Ion: 41 Resp: 258
Ion Ratio Lower Upper
41 100
39 0.0 49.4 74.2#
76 0.0 31.8 47.6#

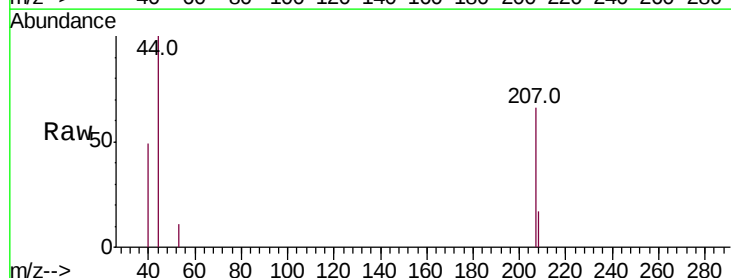


Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 39.00 (38.70 to 39.70): VW
Ion 75.90 (75.60 to 76.60): VW

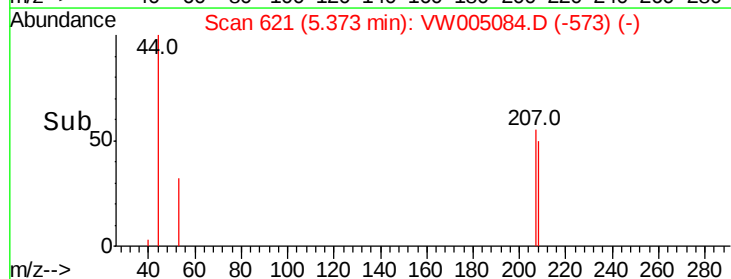
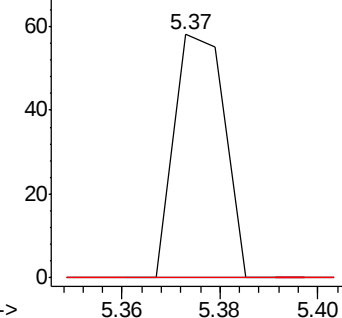


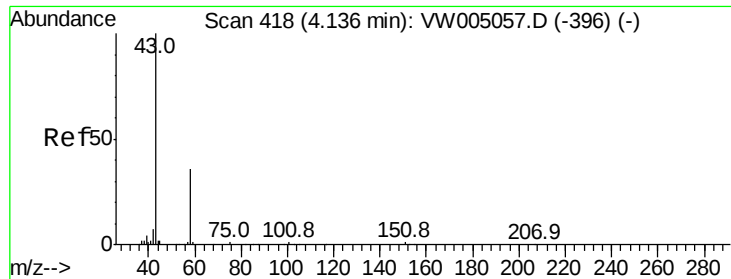
#15
Acrylonitrile
Concen: 1.488 ug/l
RT: 5.37 min Scan# 621
Delta R.T. -0.01 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

Tgt Ion: 53 Resp: 41
Ion Ratio Lower Upper
53 100
52 0.0 65.7 98.5#
51 0.0 28.8 43.2#



Abundance Ion 53.00 (52.70 to 53.70): VW
Ion 52.00 (51.70 to 52.70): VW
Ion 51.00 (50.70 to 51.70): VW

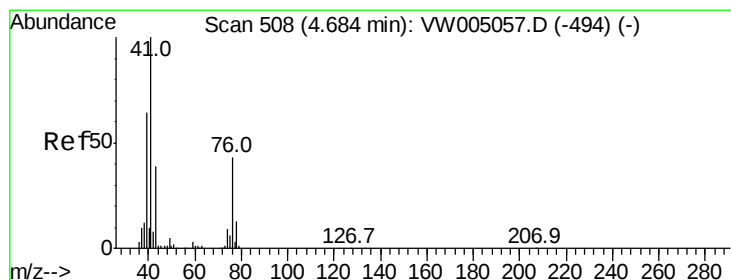
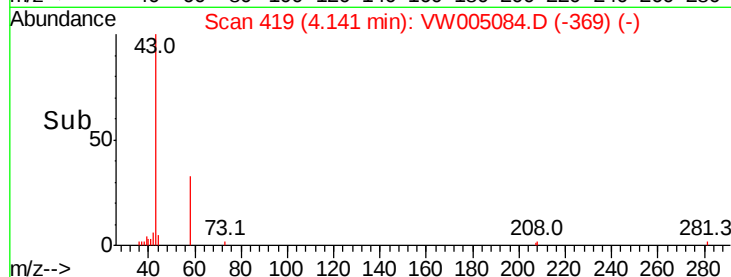
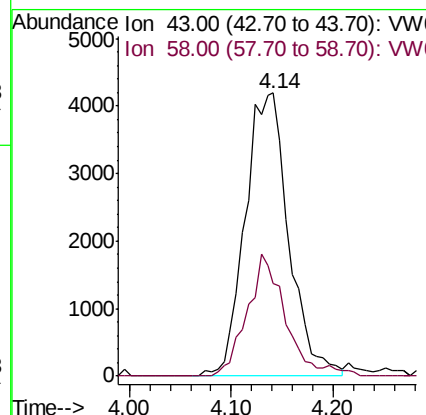
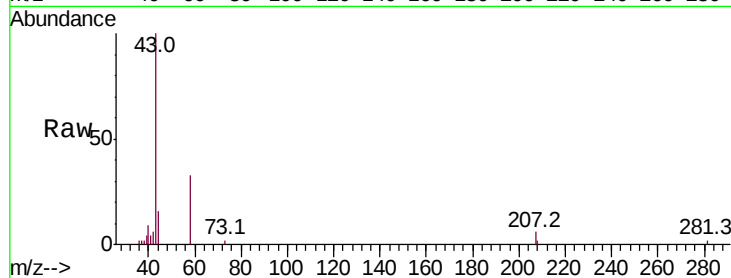




#16
Acetone
Concen: 530.428 ug/l
RT: 4.14 min Scan# 419
Delta R.T. 0.01 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

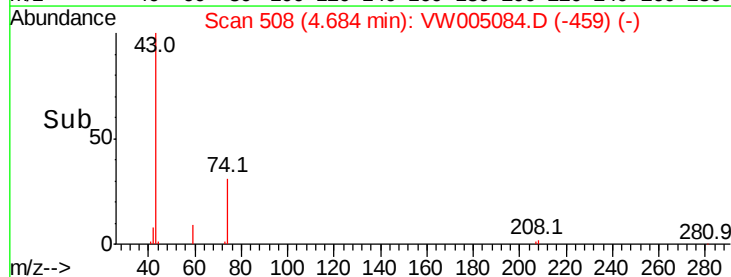
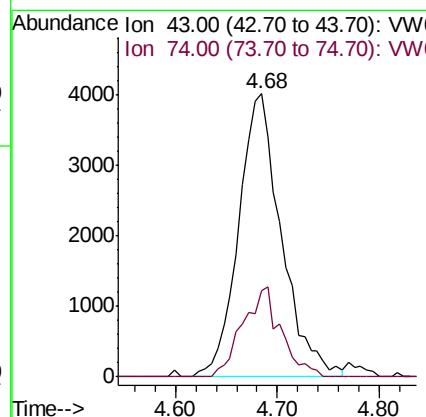
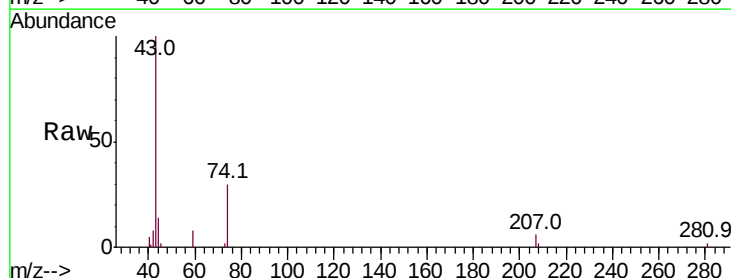
Instrument :
MSVOA_W
ClientSampleId :

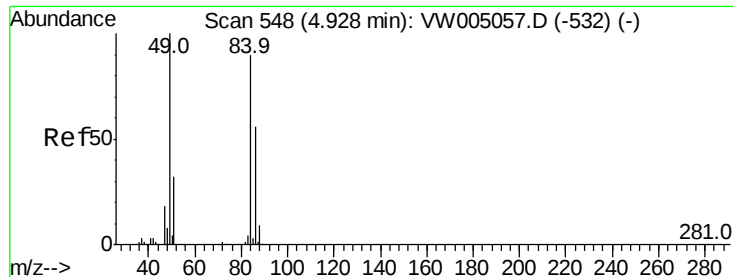
Tot Ion: 43 Resp: 12445
Ion Ratio Lower Upper
43 100
58 32.8 29.0 43.6



#18
Methyl Acetate
Concen: 169.605 ug/l
RT: 4.68 min Scan# 508
Delta R.T. -0.00 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

Tgt Ion: 43 Resp: 11706
Ion Ratio Lower Upper
43 100
74 28.3 20.7 31.1





#20

Methvlene Chloride

Concen: 263.980 ug/l

RT: 4.92 min Scan# 547

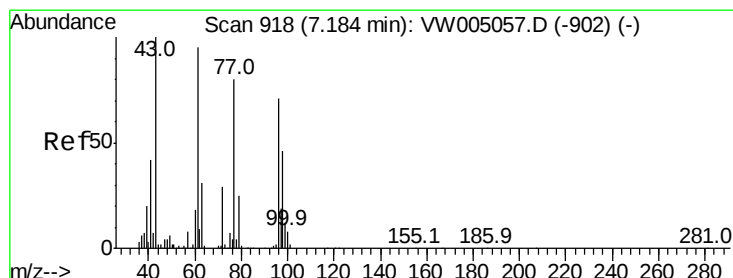
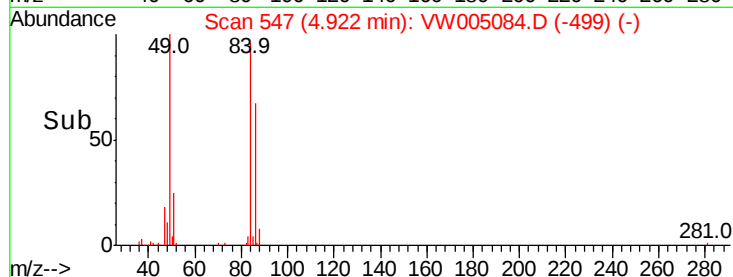
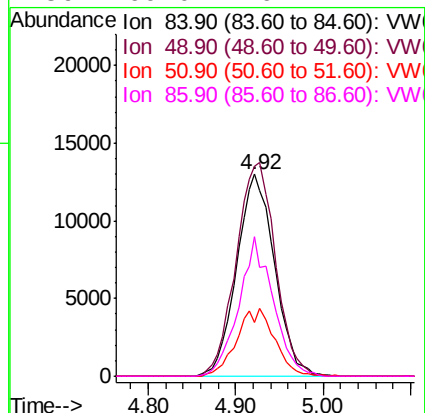
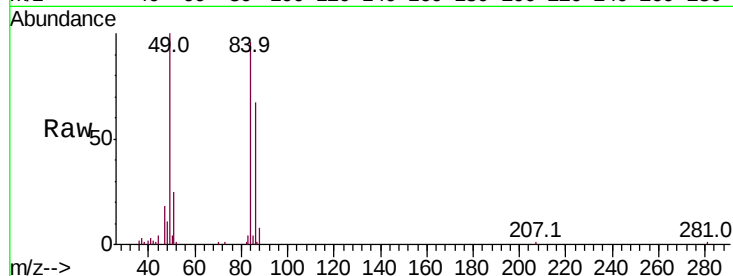
Delta R.T. -0.01 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :
MSVOA_W
ClientSampled :

Tot Ion:	84	Resp:	39199
Ion	Ratio	Lower	Upper
84	100		
49	103.7	88.7	133.1
51	26.4	28.6	42.8#
86	69.0	49.4	74.2



#25

2-Butanone

Concen: 41.504 ug/l

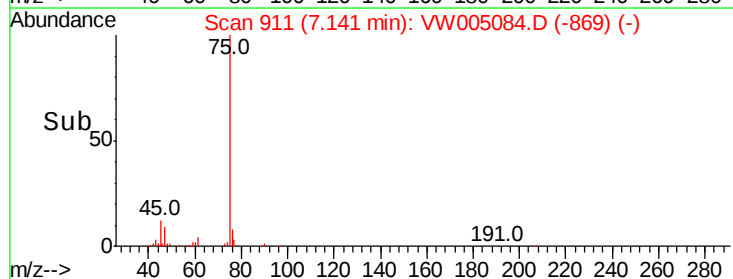
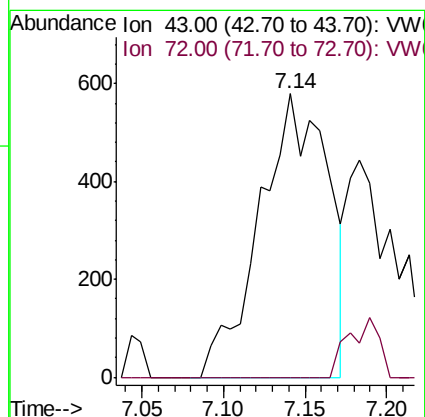
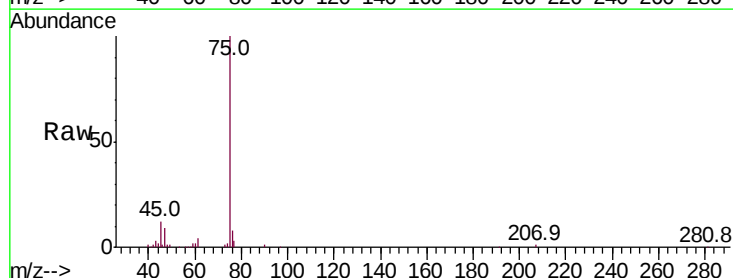
RT: 7.14 min Scan# 911

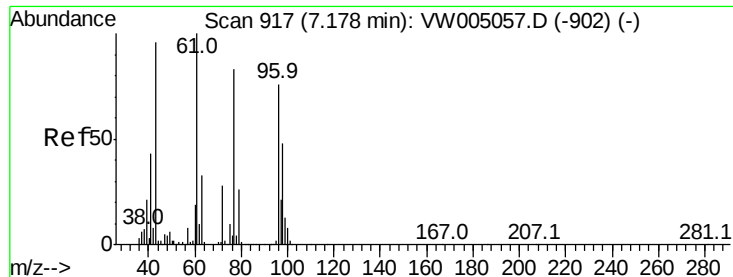
Delta R.T. -0.04 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Tgt Ion:	43	Resp:	1689
Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.1	34.7#

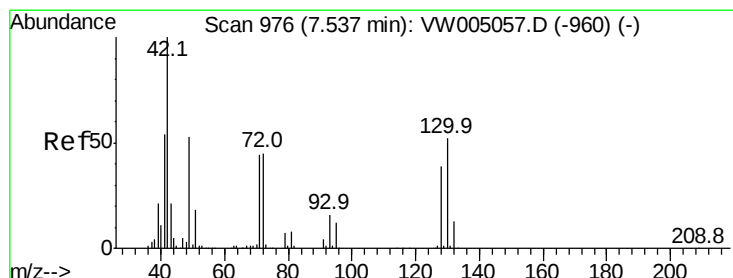
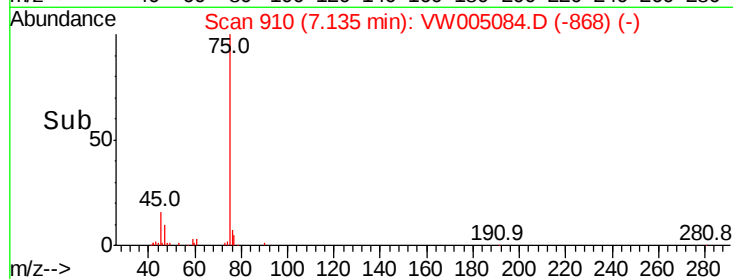
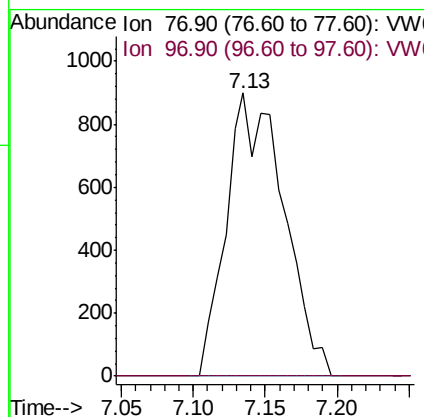
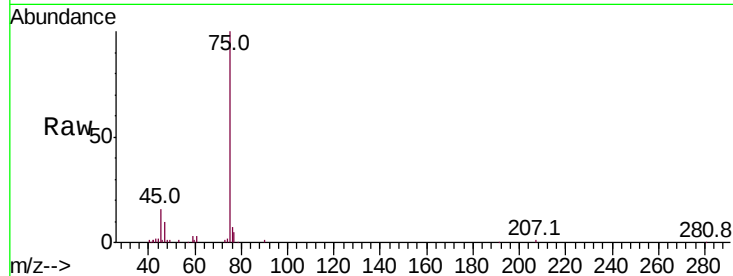




#26
 2,2-Dichloropropane
 Concen: 12.945 ug/l
 RT: 7.13 min Scan# 910
 Delta R.T. -0.04 min
 Lab File: VW005084.D
 Acq: 04 Sep 2018 17:15

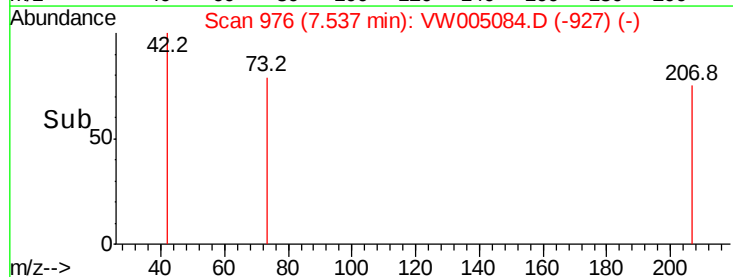
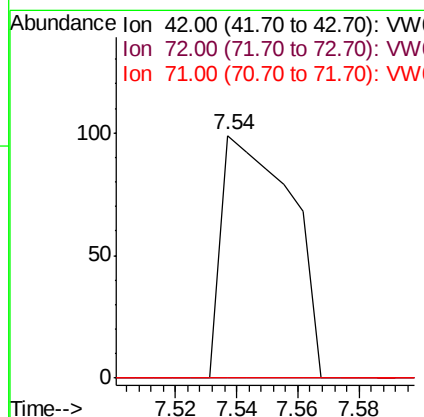
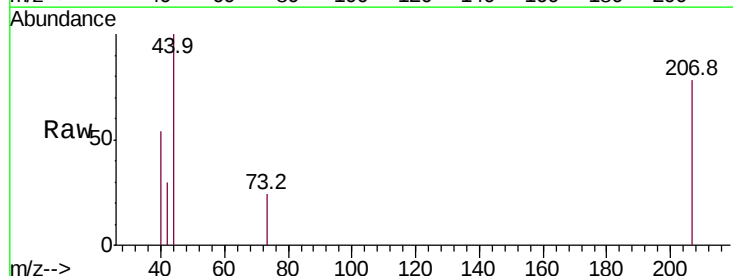
Instrument :
 MSVOA_W
 ClientSampled :

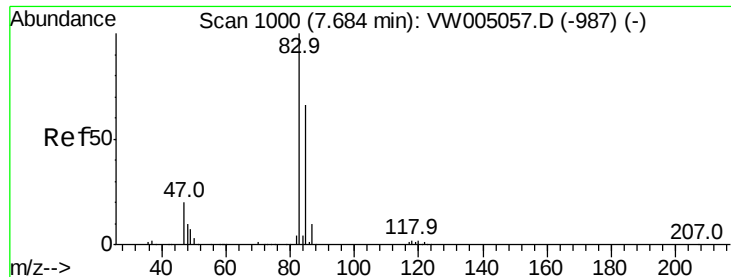
Tot Ion: 77 Resp: 2496
 Ion Ratio Lower Upper
 77 100
 97 0.0 12.2 36.6#



#29
 Tetrahydrofuran
 Concen: 7.454 ug/l
 RT: 7.54 min Scan# 976
 Delta R.T. -0.00 min
 Lab File: VW005084.D
 Acq: 04 Sep 2018 17:15

Tgt Ion: 42 Resp: 155
 Ion Ratio Lower Upper
 42 100
 72 0.0 37.0 55.4#
 71 0.0 35.0 52.6#

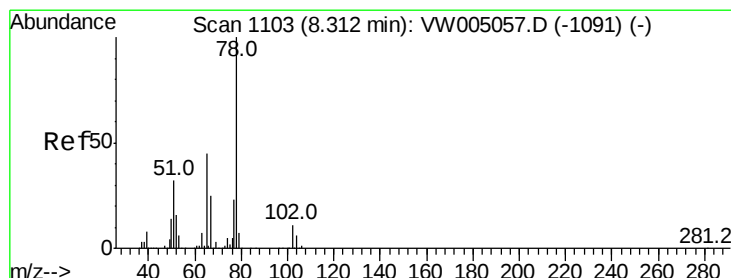
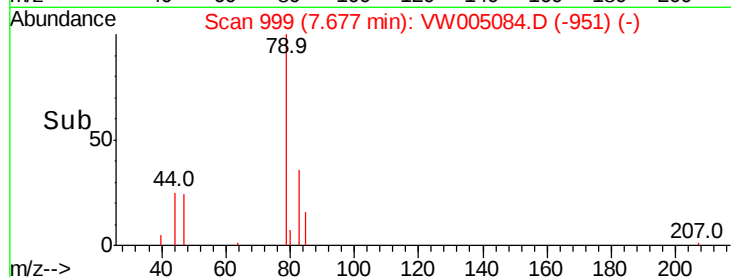
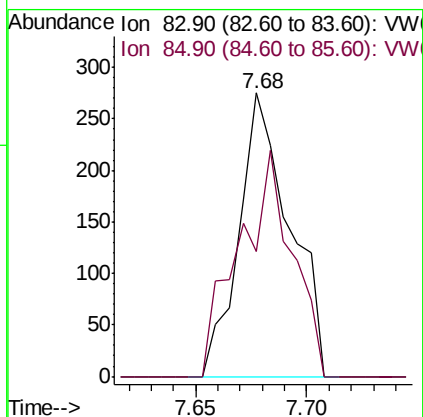
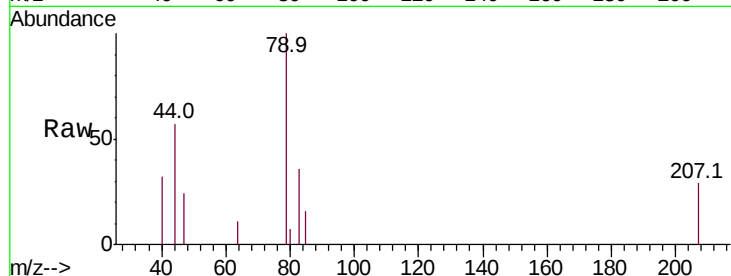




#30
Chloroform
Concen: 1.821 ug/l
RT: 7.68 min Scan# 999
Delta R.T. -0.01 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

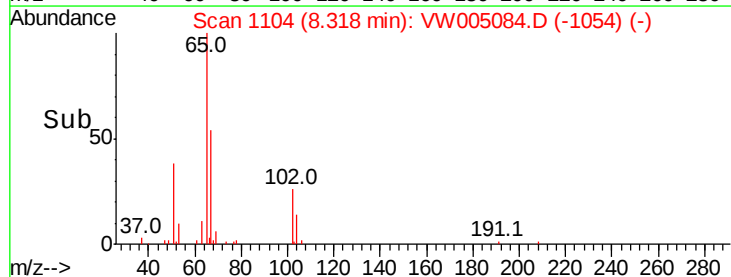
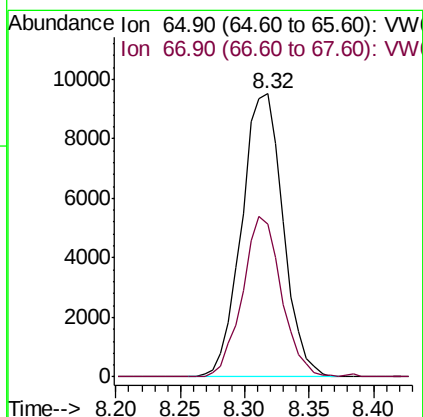
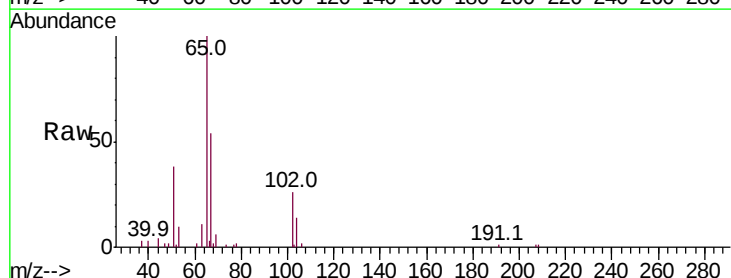
Instrument :
MSVOA_W
ClientSampleId :

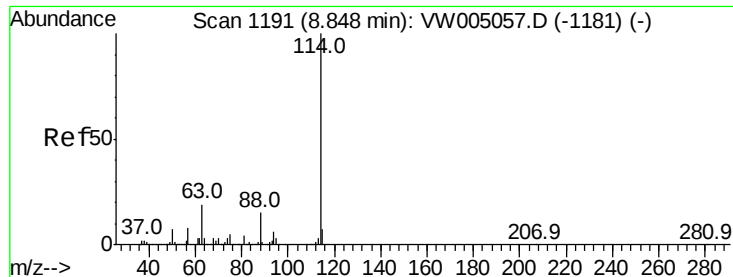
Tot Ion: 83 Resp: 436
Ion Ratio Lower Upper
83 100
85 44.0 53.1 79.7#



#33
1,2-Dichloroethane-d4
Concen: 180.758 ug/l
RT: 8.32 min Scan# 1104
Delta R.T. 0.01 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

Tgt Ion: 65 Resp: 21147
Ion Ratio Lower Upper
65 100
67 53.5 0.0 109.4

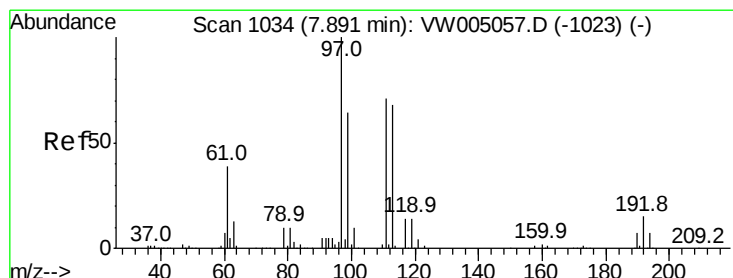
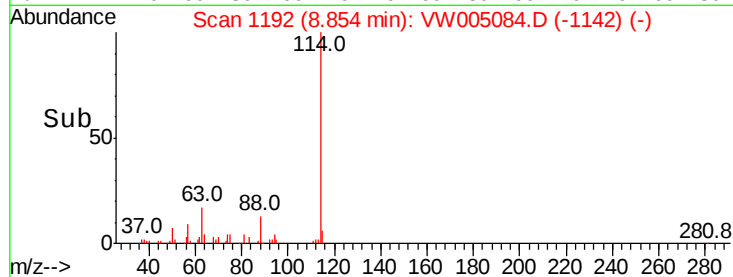
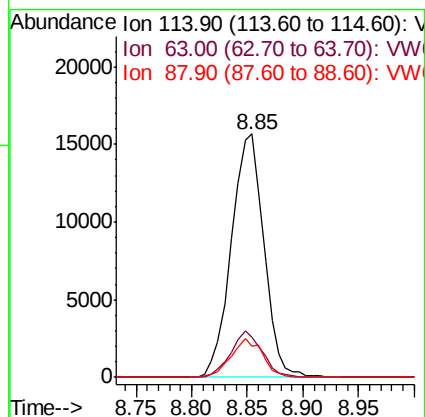
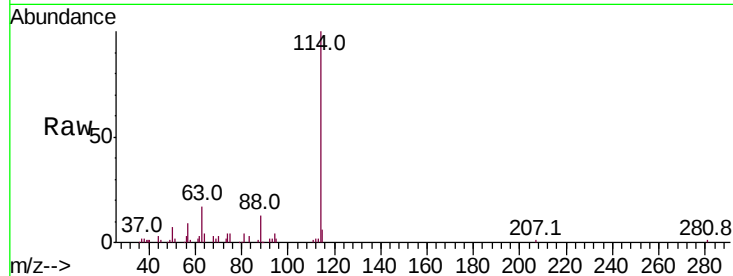




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.85 min Scan# 1192
 Delta R.T. 0.01 min
 Lab File: VW005084.D
 Acq: 04 Sep 2018 17:15

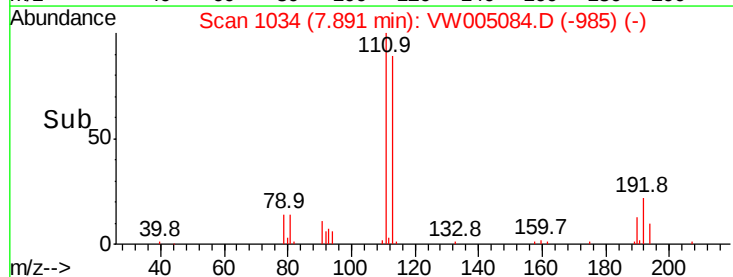
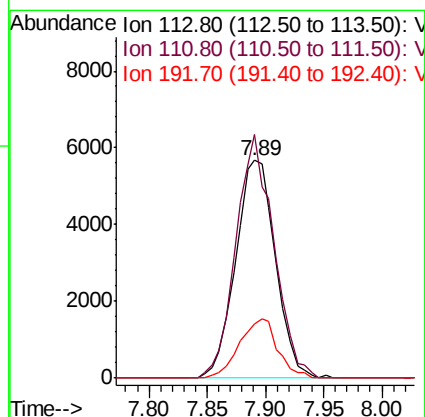
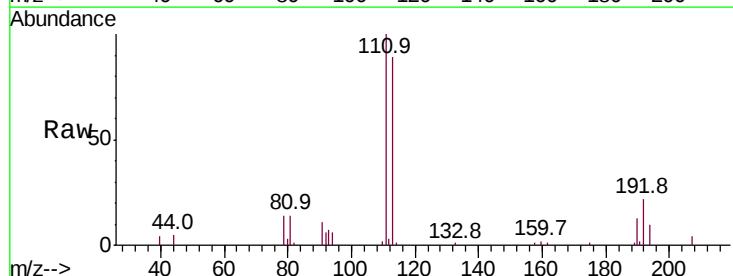
Instrument :
 MSVOA_W
 ClientSampleId :

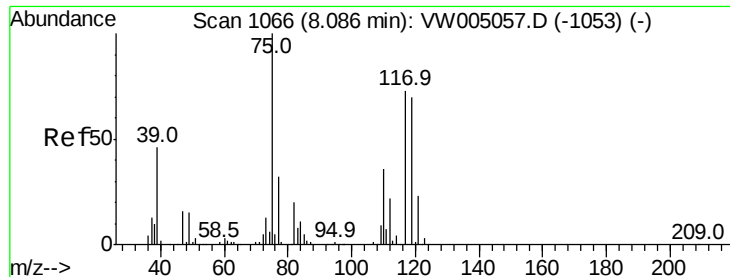
Tot Ion	Ratio	Lower	Upper
114	100		
63	16.6	0.0	38.0
88	12.6	0.0	30.2



#35
 Dibromofluoromethane
 Concen: 73.698 ug/l
 RT: 7.89 min Scan# 1034
 Delta R.T. -0.00 min
 Lab File: VW005084.D
 Acq: 04 Sep 2018 17:15

Tgt Ion	Ratio	Lower	Upper
113	100		
111	105.8	82.2	123.2
192	26.0	18.1	27.1





#36

1,1-Dichloropropene

Concen: 3.547 ug/l

RT: 7.96 min Scan# 1046

Delta R.T. -0.12 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :

MSVOA_W

ClientSampleId :

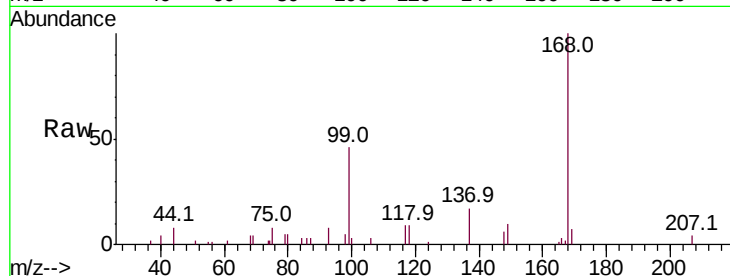
Tot Ion: 75 Resp: 1074

Ion Ratio Lower Upper

75 100

110 0.0 18.9 56.7#

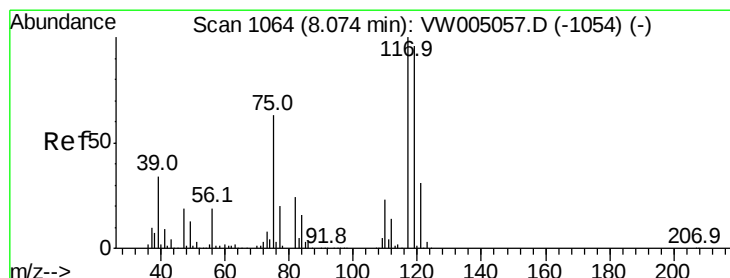
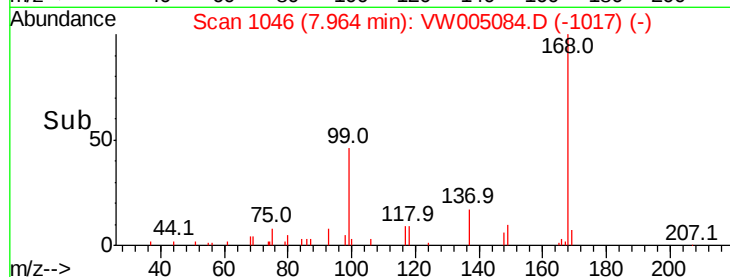
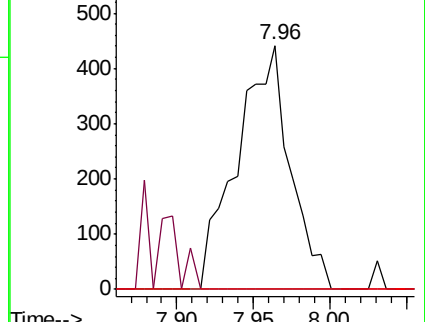
77 0.0 25.5 38.3#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VW



#38

Carbon Tetrachloride

Concen: 4.874 ug/l

RT: 7.95 min Scan# 1044

Delta R.T. -0.12 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

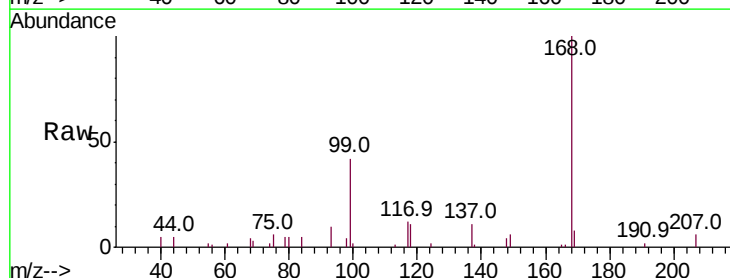
Tgt Ion: 117 Resp: 1403

Ion Ratio Lower Upper

117 100

119 0.0 76.6 115.0#

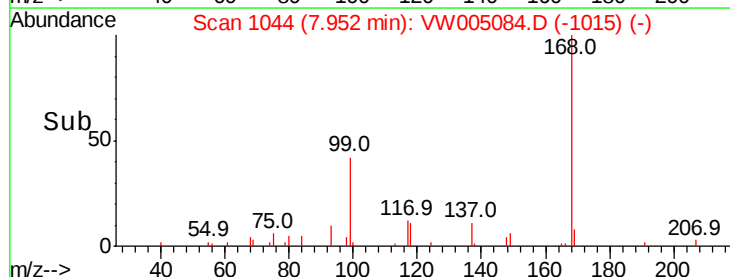
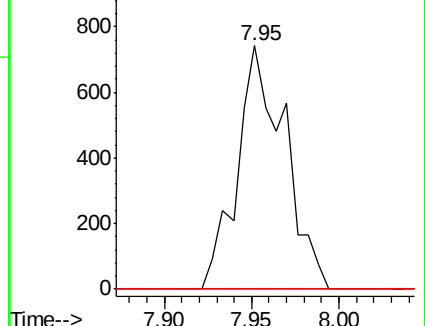
121 0.0 24.8 37.2#

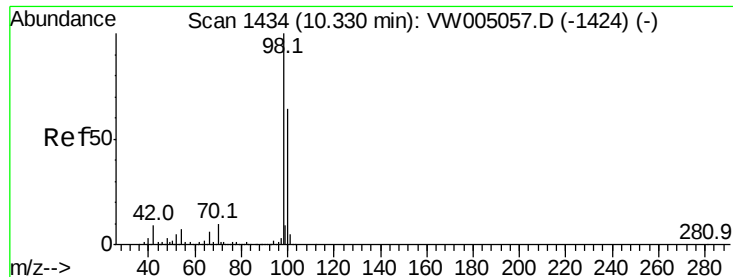


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 19.836 ug/l

RT: 10.33 min Scan# 1434

Delta R.T. -0.00 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :

MSVOA_W

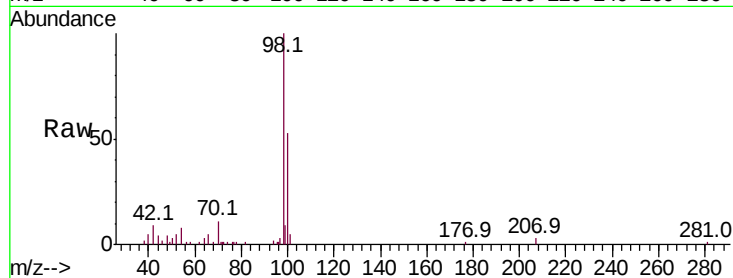
ClientSampled :

Tot Ion: 98 Resp: 16791

Ion Ratio Lower Upper

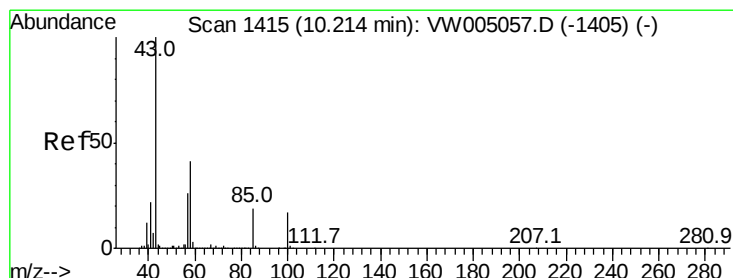
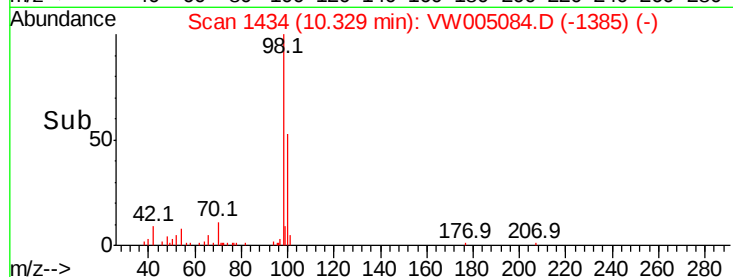
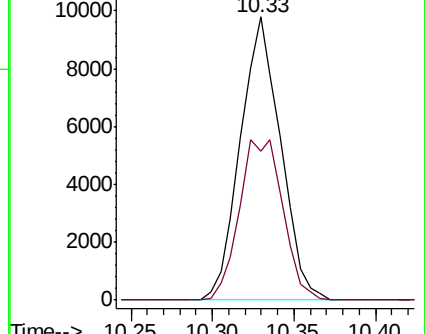
98 100

100 61.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW



#51

4-Methyl-2-Pentanone

Concen: 1.876 ug/l

RT: 10.22 min Scan# 1416

Delta R.T. 0.01 min

Lab File: VW005084.D

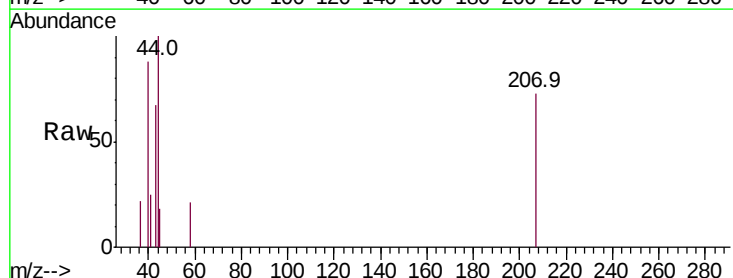
Acq: 04 Sep 2018 17:15

Tgt Ion: 43 Resp: 259

Ion Ratio Lower Upper

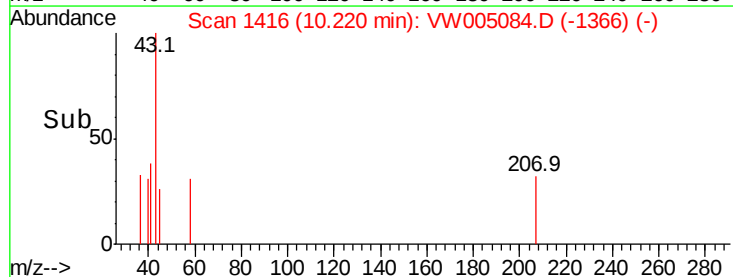
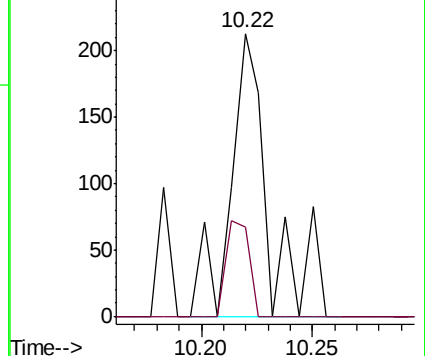
43 100

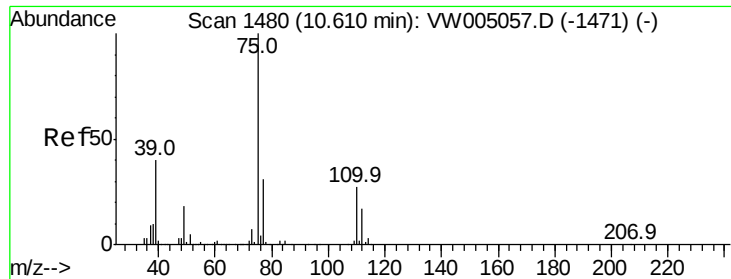
58 19.7 33.3 49.9#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#53

t-1,3-Dichloropropene

Concen: 3.311 ug/l

RT: 10.73 min Scan# 1499

Delta R.T. 0.12 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :

MSVOA_W

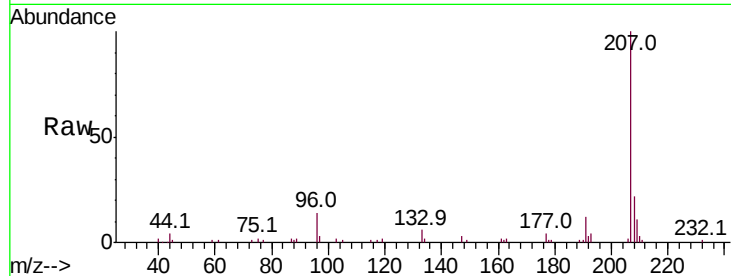
ClientSampleId :

Tot Ion: 75 Resp: 887

Ion Ratio Lower Upper

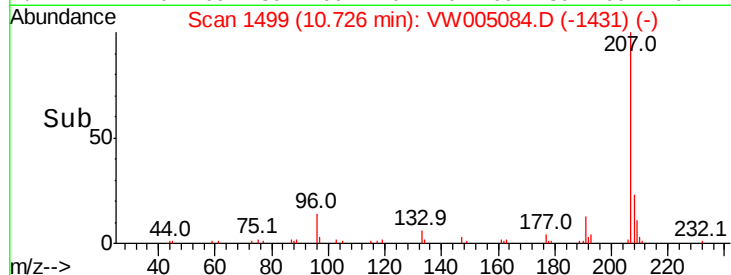
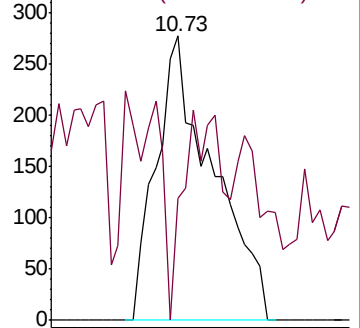
75 100

77 4.7 25.0 37.6#

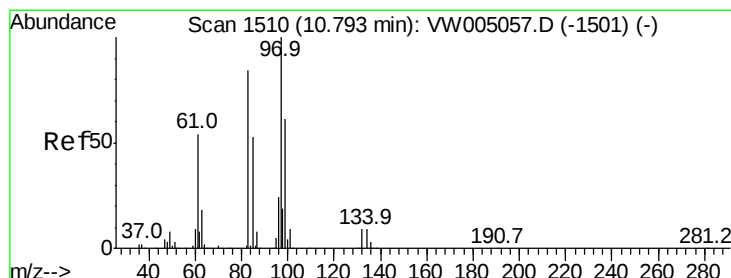


Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW



Time-->



#55

1,1,2-Trichloroethane

Concen: 1.080 ug/l

RT: 10.78 min Scan# 1508

Delta R.T. -0.01 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Tgt Ion: 97 Resp: 181

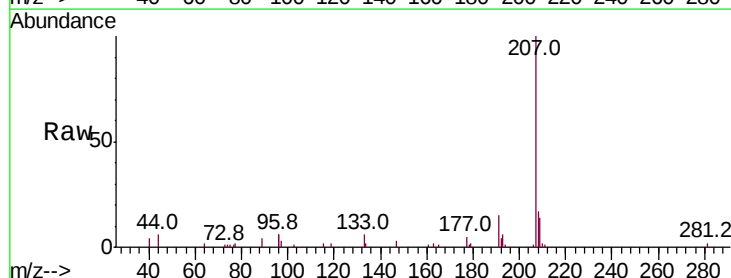
Ion Ratio Lower Upper

97 100

83 0.0 67.0 100.6#

85 0.0 42.3 63.5#

99 0.0 48.5 72.7#

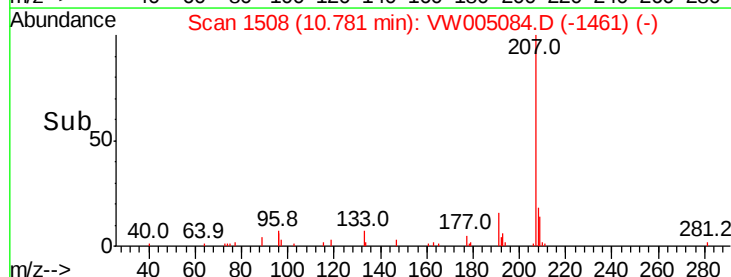
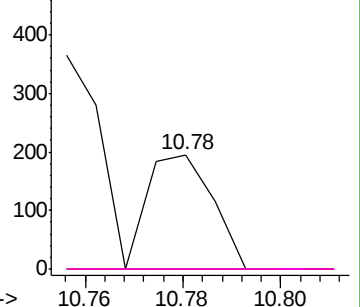


Abundance Ion 96.90 (96.60 to 97.60): VW

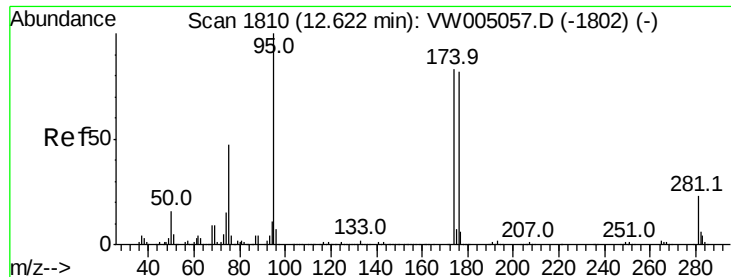
Ion 82.90 (82.60 to 83.60): VW

Ion 84.90 (84.60 to 85.60): VW

Ion 98.90 (98.60 to 99.60): VW



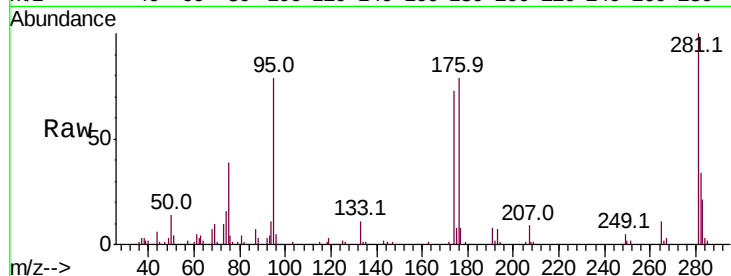
Time-->



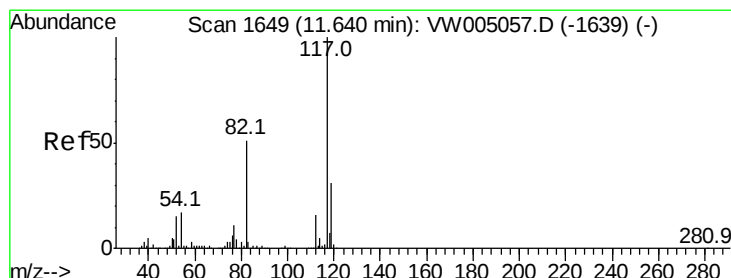
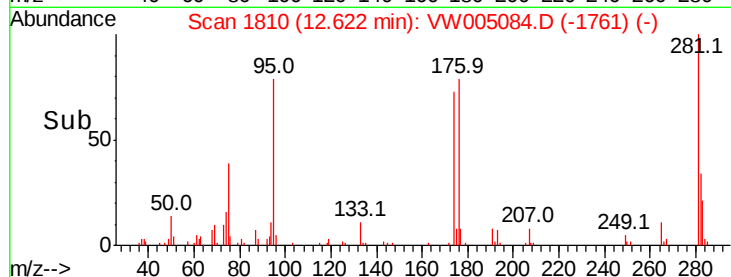
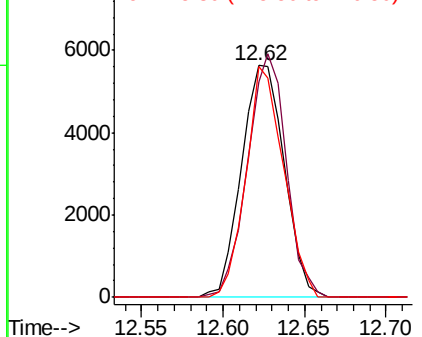
#62
4-Bromofluorobenzene
Concen: 34.424 ug/l
RT: 12.62 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

Instrument :
MSVOA_W
ClientSampleId :

Tot Ion	95	Resp	10275
Ion Ratio	Lower	Upper	
95	100		
174	95.1	0.0	173.4
176	88.0	0.0	167.4

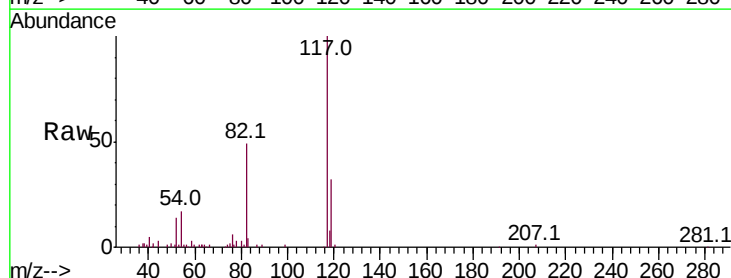


Abundance Ion 94.90 (94.60 to 95.60): VW
Ion 173.80 (173.50 to 174.50): VW
Ion 175.80 (175.50 to 176.50): VW

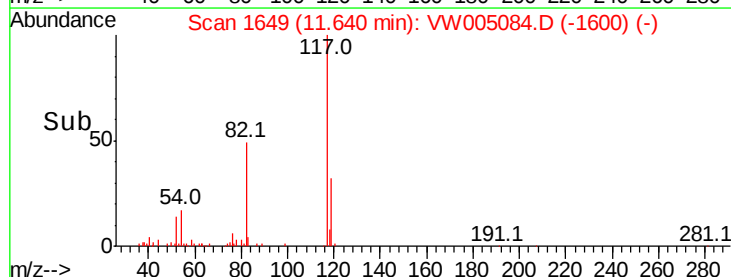
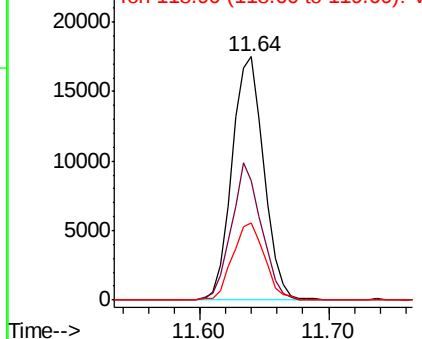


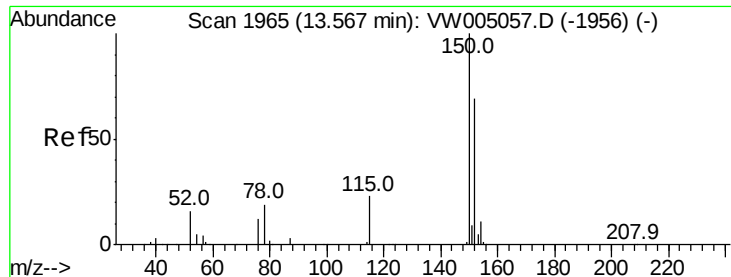
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.64 min Scan# 1649
Delta R.T. -0.00 min
Lab File: VW005084.D
Acq: 04 Sep 2018 17:15

Tgt Ion	117	Resp	30068
Ion Ratio	Lower	Upper	
117	100		
82	49.2	40.9	61.3
119	31.6	24.9	37.3



Abundance Ion 116.90 (116.60 to 117.60): VW
Ion 82.00 (81.70 to 82.70): VW
Ion 118.90 (118.60 to 119.60): VW





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.57 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :

MSVOA_W

ClientSampleId :

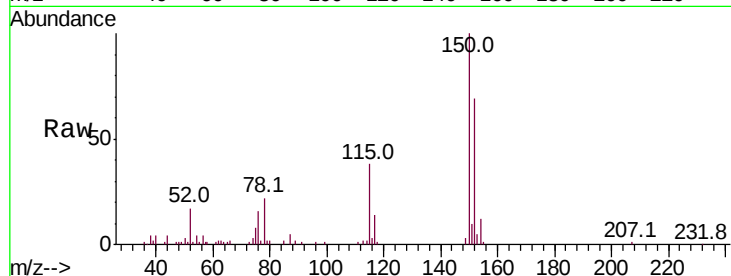
Tot Ion:152 Resp: 14045

Ion Ratio Lower Upper

152 100

115 55.4 27.8 83.4

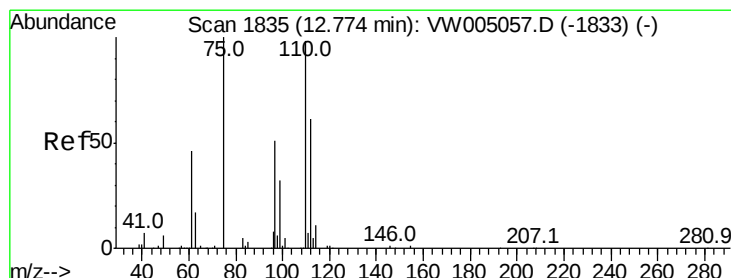
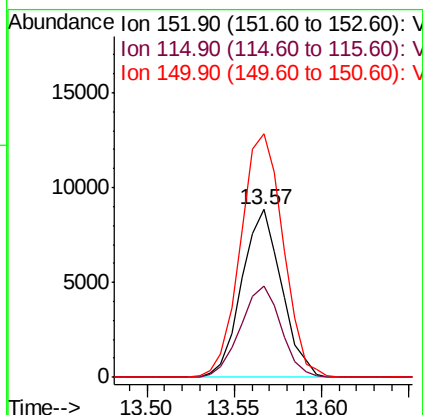
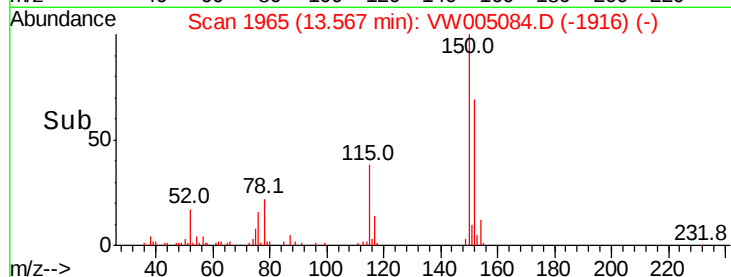
150 156.0 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 1.432 ug/l

RT: 12.76 min Scan# 1833

Delta R.T. -0.01 min

Lab File: VW005084.D

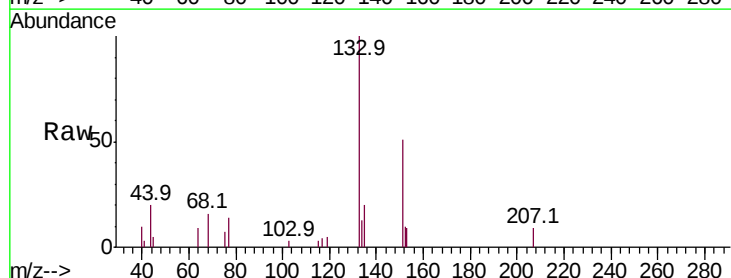
Acq: 04 Sep 2018 17:15

Tgt Ion: 75 Resp: 151

Ion Ratio Lower Upper

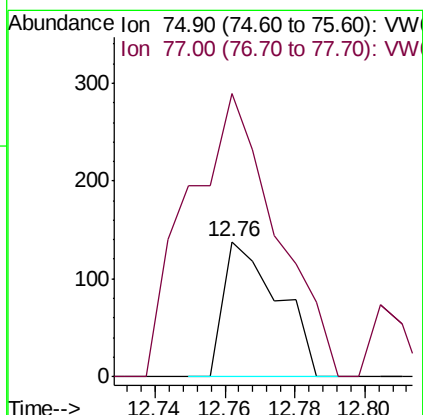
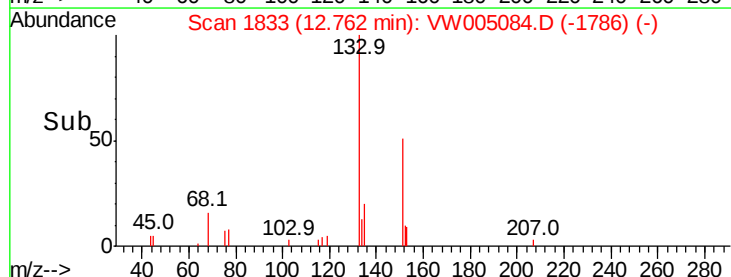
75 100

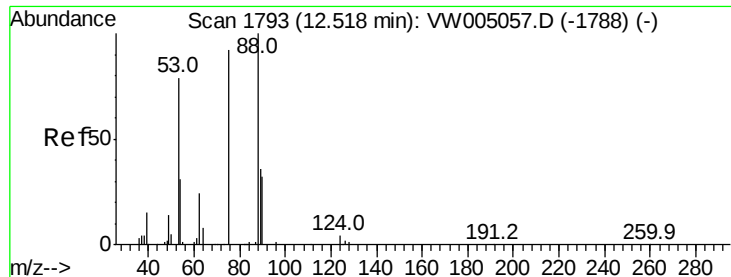
77 335.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 77.00 (76.70 to 77.70): VW





#81

trans-1,4-Dichloro-2-butene

Concen: 103.148 ug/l

RT: 12.62 min Scan# 1810

Delta R.T. 0.10 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :

MSVOA_W

ClientSampleId :

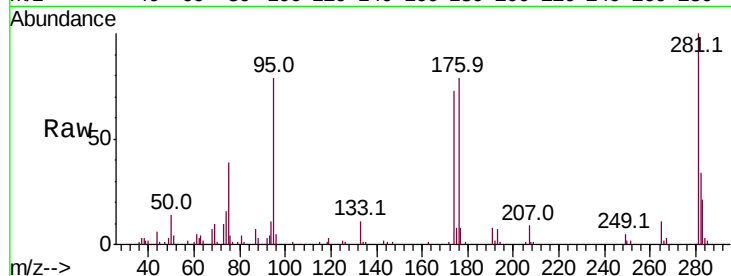
Tot Ion: 75 Resp: 4518

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.8#

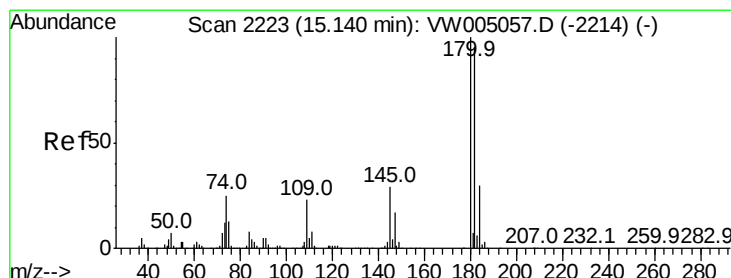
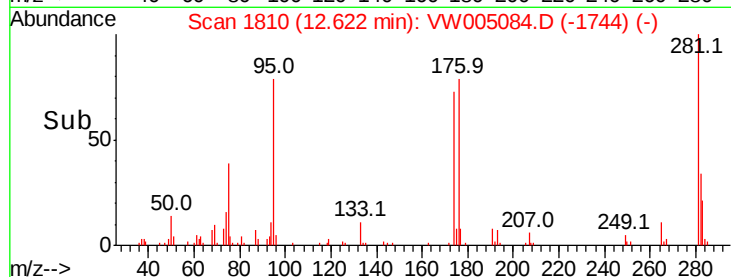
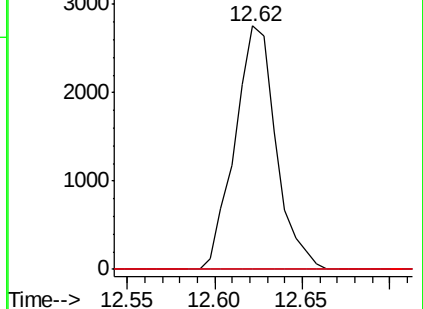
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 53.00 (52.70 to 53.70): VW

Ion 88.90 (88.60 to 89.60): VW



#93

1,2,4-Trichlorobenzene

Concen: 2.294 ug/l

RT: 15.15 min Scan# 2224

Delta R.T. 0.01 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

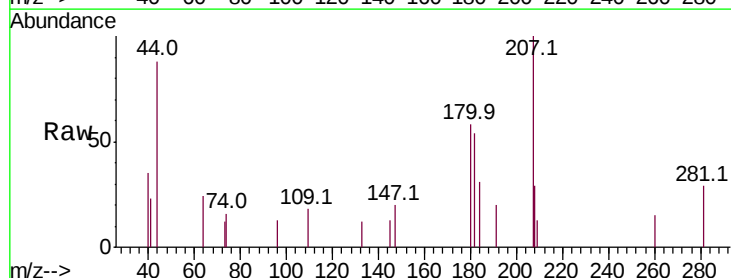
Tgt Ion: 180 Resp: 672

Ion Ratio Lower Upper

180 100

182 86.0 47.5 142.6

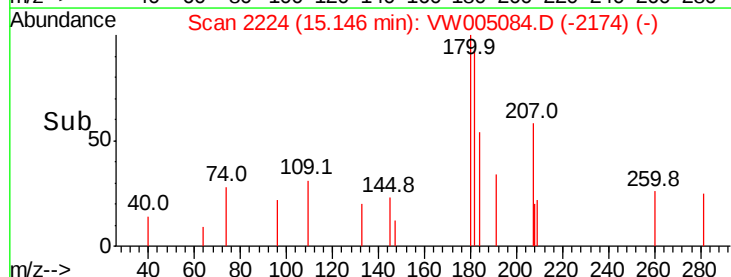
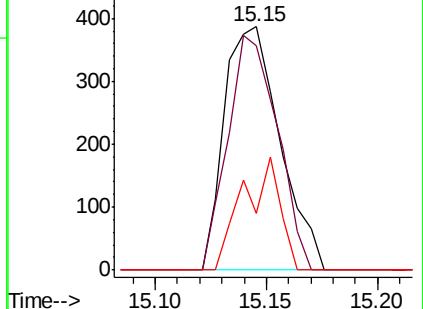
145 30.8 14.4 43.2

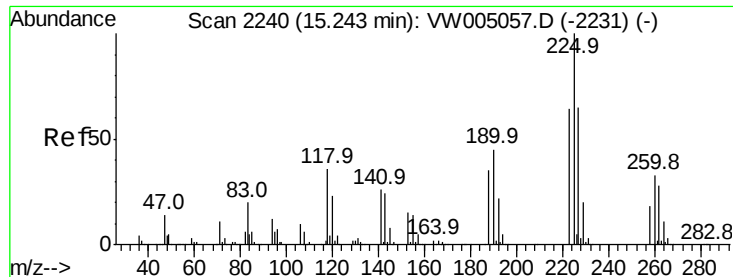


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 1.916 ug/l

RT: 15.25 min Scan# 2241

Delta R.T. 0.01 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :

MSVOA_W

ClientSampleId :

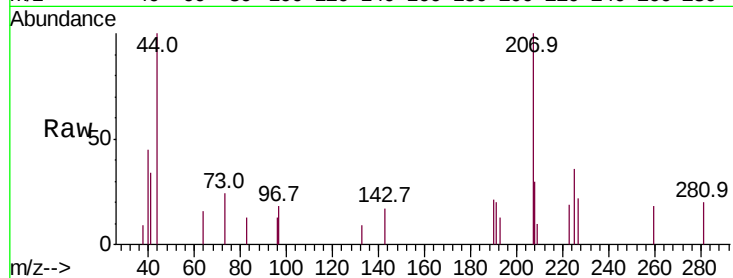
Tot Ion:225 Resp: 349

Ion Ratio Lower Upper

225 100

223 43.8 31.4 94.3

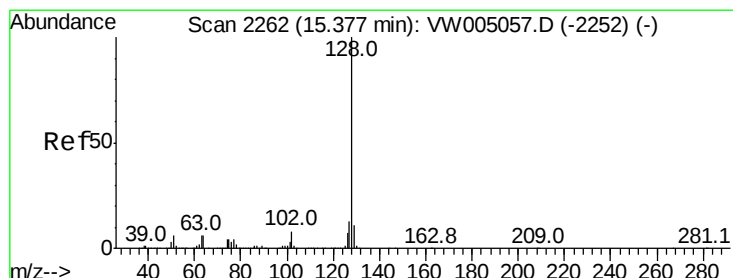
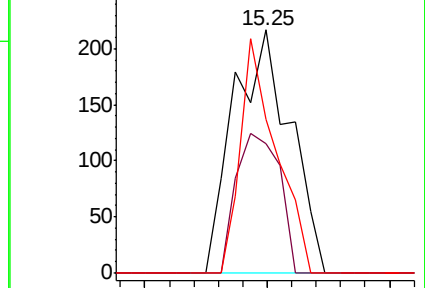
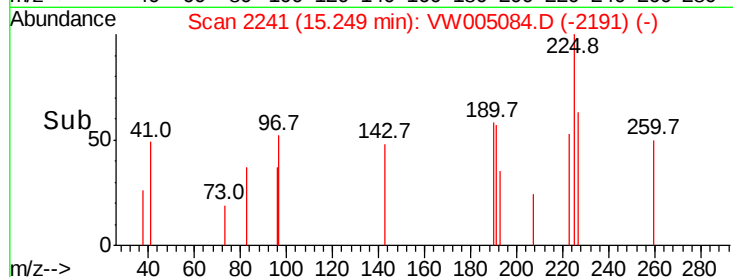
227 60.5 32.0 96.0



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 6.431 ug/l

RT: 15.38 min Scan# 2262

Delta R.T. 0.00 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

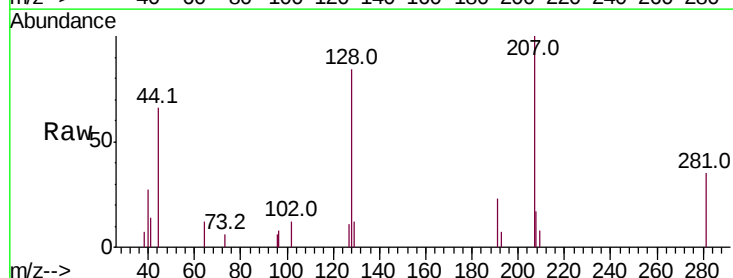
Tgt Ion:128 Resp: 1349

Ion Ratio Lower Upper

128 100

127 10.7 10.4 15.6

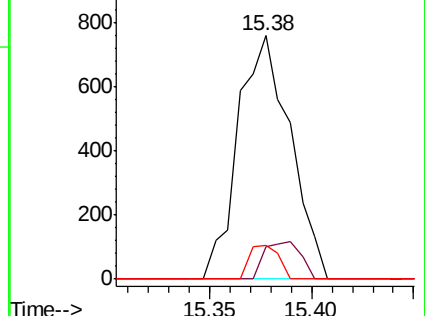
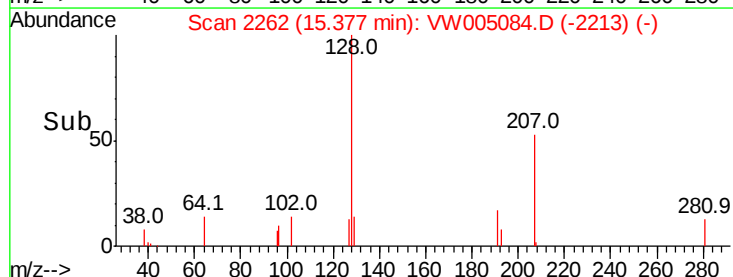
129 7.9 8.7 13.1#

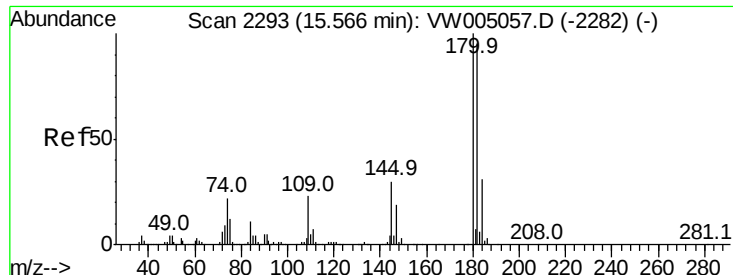


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96

1,2,3-Trichlorobenzene

Concen: 2.150 ug/l

RT: 15.57 min Scan# 2294

Delta R.T. 0.01 min

Lab File: VW005084.D

Acq: 04 Sep 2018 17:15

Instrument :

MSVOA_W

ClientSampleId :

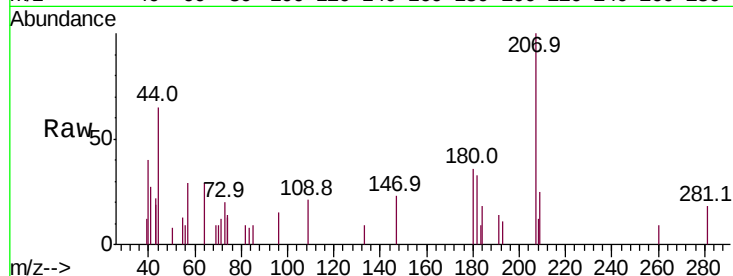
Tot Ion:180 Resp: 539

Ion Ratio Lower Upper

180 100

182 90.7 47.4 142.3

145 0.0 15.4 46.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

