

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW042020\
 Data File : VW015236.D
 Acq On : 20 Apr 2020 20:57
 Operator : SY/VA
 Sample : L2346-06
 Misc : 5.05G/5ML/MSVOA W/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 S-4A

Quant Time: Apr 21 06:58:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W042020S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 21 06:39:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	19117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	26441	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	19483	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	4362	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	7768	49.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.38%	
35) Dibromofluoromethane	7.89	113	7838	53.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.04%	
50) Toluene-d8	10.32	98	28956	47.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.00%	
62) 4-Bromofluorobenzene	12.62	95	6816	28.99	ug/l	0.00
Spiked Amount	50.000		Recovery	=	57.98%	

Target Compounds

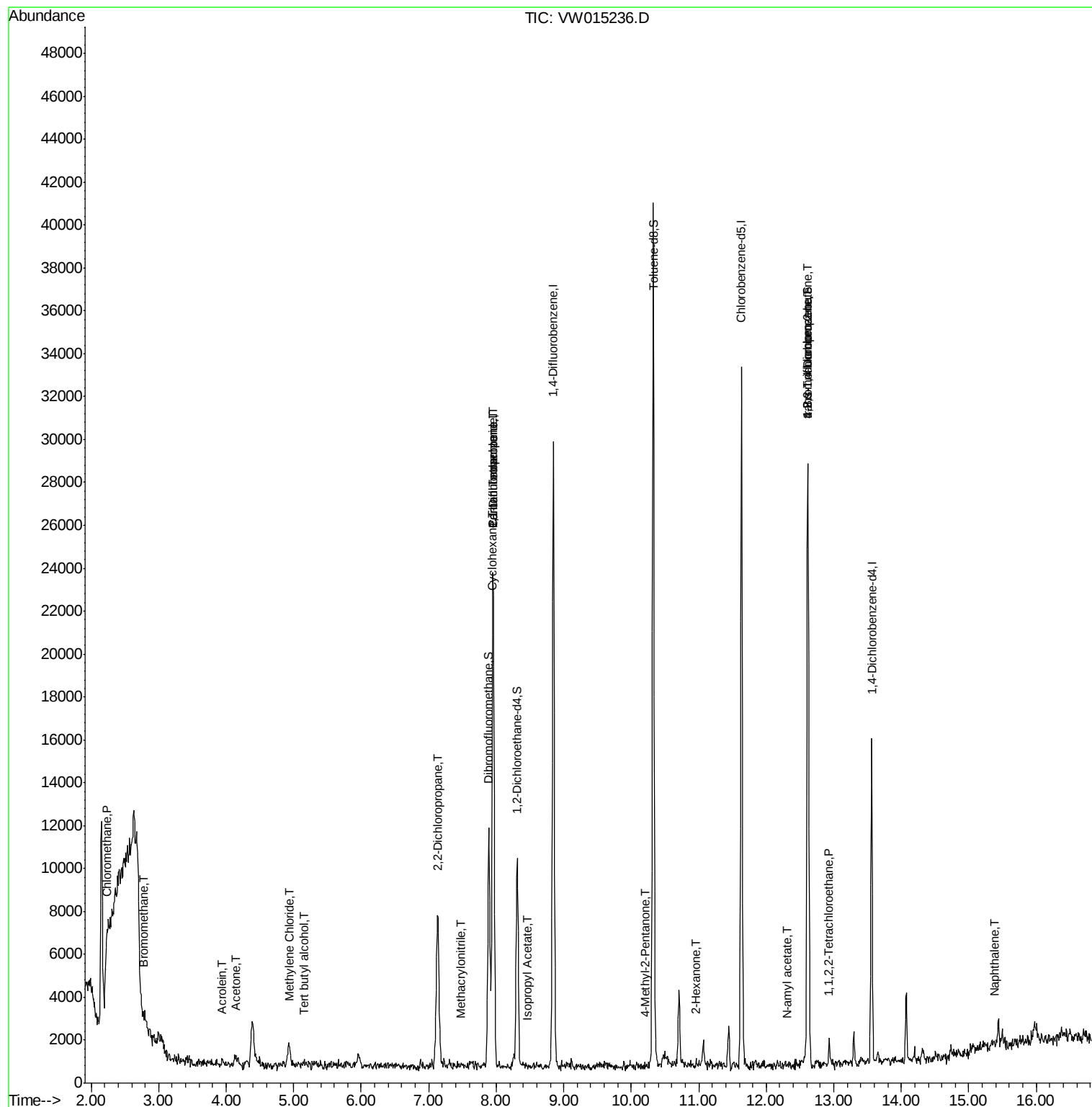
						Qvalue
3) Chloromethane	2.22	50	218	1.326	ug/l #	67
5) Bromomethane	2.78	94	244	1.768	ug/l #	76
11) Tert butyl alcohol	5.16	59	25	1.962	ug/l #	1
13) Acrolein	3.94	56	47	7.047	ug/l #	82
16) Acetone	4.15	43	864	31.643	ug/l #	79
20) Methylene Chloride	4.93	84	799	4.465	ug/l #	85
26) 2,2-Dichloropropane	7.13	77	668	2.208	ug/l #	58
31) Cyclohexane	7.94	56	461	1.595	ug/l #	52
36) 1,1-Dichloropropene	7.95	75	1203	5.041	ug/l #	54
38) Carbon Tetrachloride	7.95	117	1745	6.691	ug/l #	14
41) Methacrylonitrile	7.48	41	299	6.434	ug/l #	36
43) Isopropyl Acetate	8.46	43	175	1.077	ug/l #	50
51) 4-Methyl-2-Pentanone	10.21	43	183	2.400	ug/l #	35
59) 2-Hexanone	10.96	43	180	3.307	ug/l #	23
74) N-amyl acetate	12.30	43	54	1.026	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.92	83	49	1.141	ug/l #	25
76) 1,2,3-Trichloropropane	12.62	75	3520	104.312	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.62	75	3520	228.028	ug/l #	15
95) Naphthalene	15.37	128	318	2.371	ug/l #	69

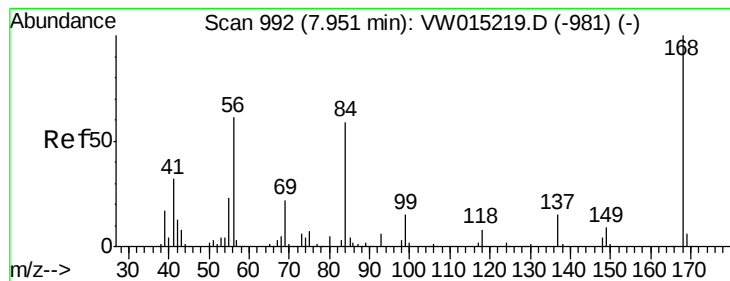
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampleId :

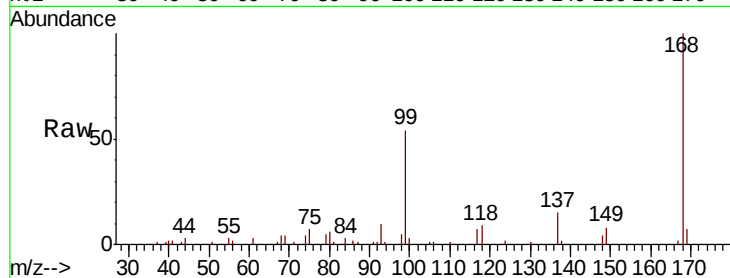
S-4A

Tot Ion:168 Resp: 19117

Ion Ratio Lower Upper

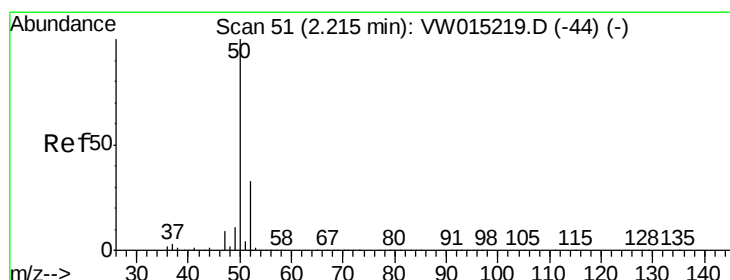
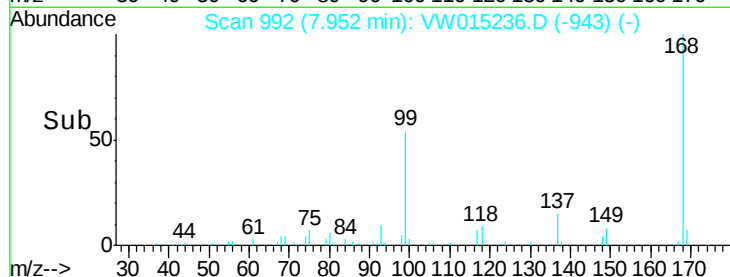
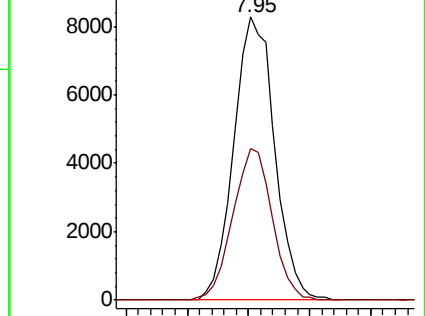
168 100

99 53.6 48.5 72.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#3

Chloromethane

Concen: 1.326 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW015236.D

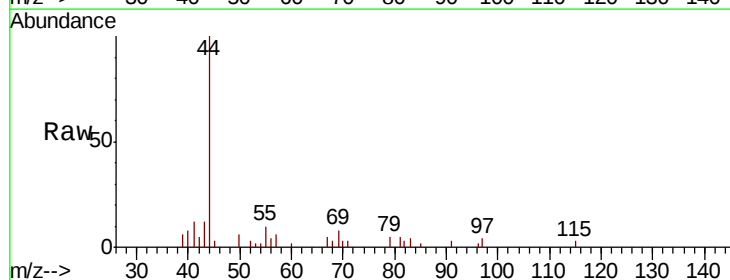
Acq: 20 Apr 2020 20:57

Tgt Ion: 50 Resp: 218

Ion Ratio Lower Upper

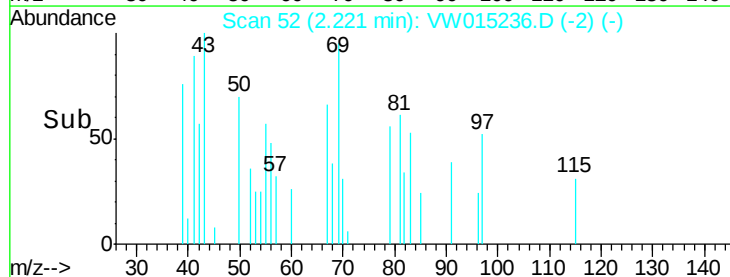
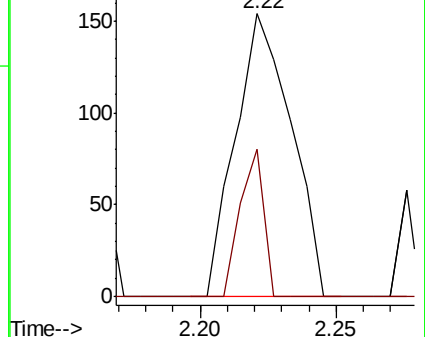
50 100

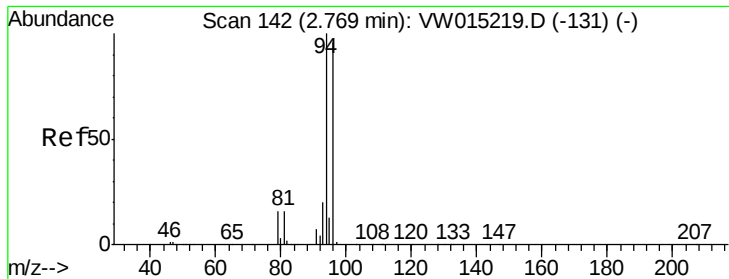
52 51.9 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW





#5

Bromomethane

Concen: 1.768 ug/l

RT: 2.78 min Scan# 144

Delta R.T. 0.01 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampled :

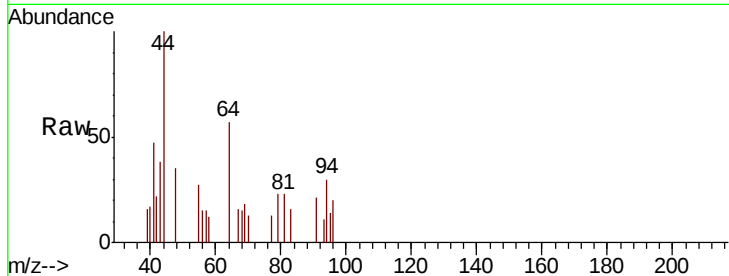
S-4A

Tot Ion: 94 Resp: 244

Ion Ratio Lower Upper

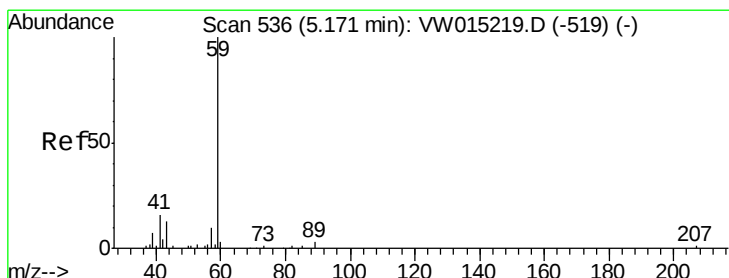
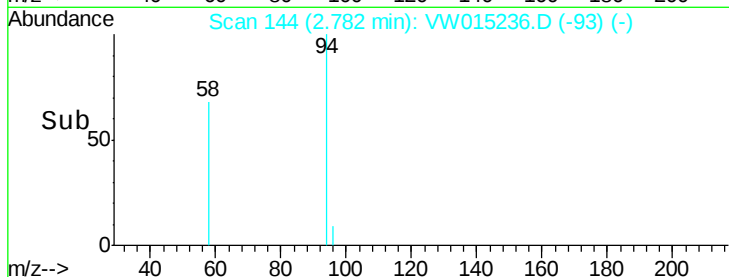
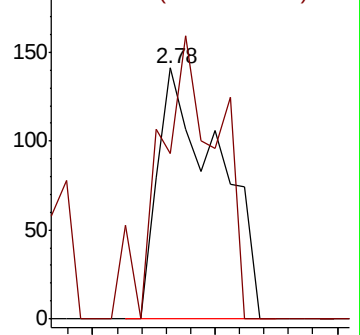
94 100

96 66.0 70.4 105.6#



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#11

Tert butyl alcohol

Concen: 1.962 ug/l

RT: 5.16 min Scan# 534

Delta R.T. -0.01 min

Lab File: VW015236.D

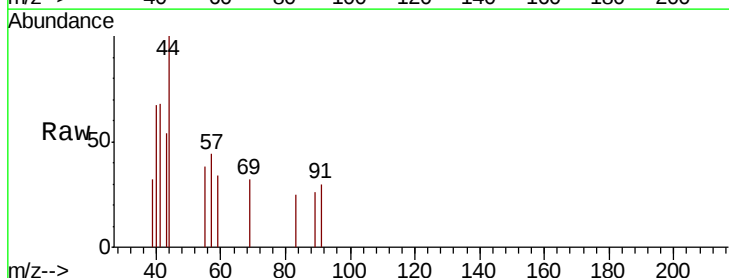
Acq: 20 Apr 2020 20:57

Tgt Ion: 59 Resp: 25

Ion Ratio Lower Upper

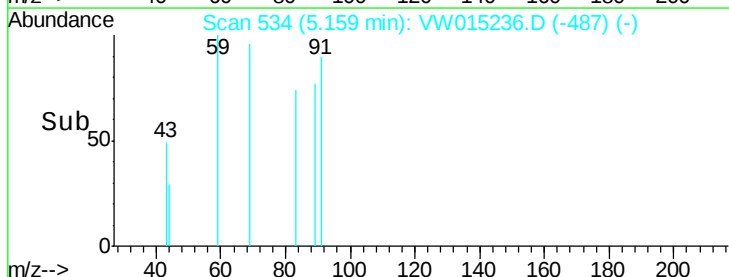
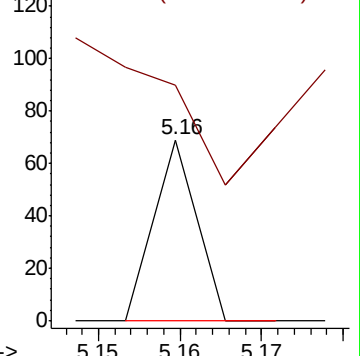
59 100

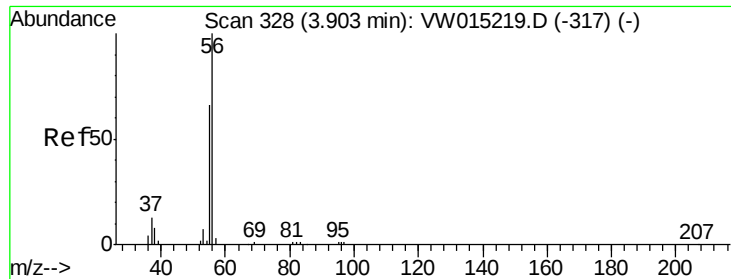
57 1228.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VW

Ion 57.00 (56.70 to 57.70): VW





#13

Acrolein

Concen: 7.047 ug/l

RT: 3.94 min Scan# 334

Delta R.T. 0.04 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampled :

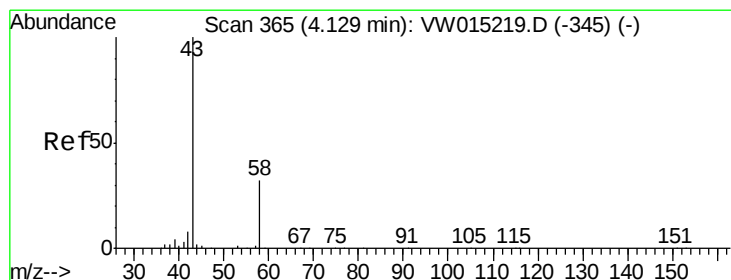
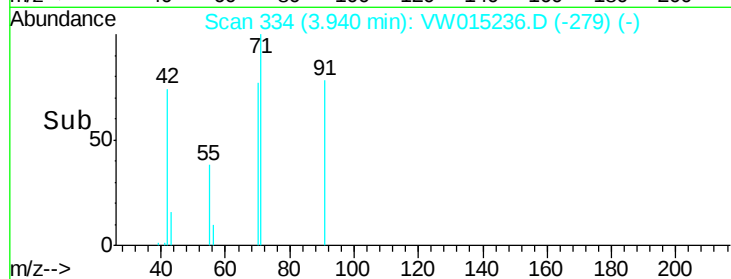
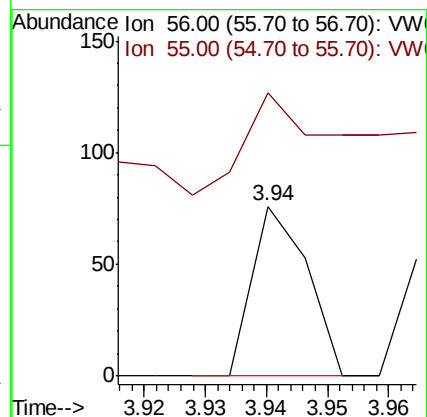
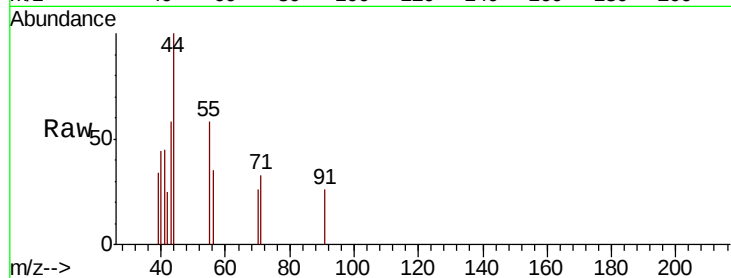
S-4A

Tot Ion: 56 Resp: 47

Ion Ratio Lower Upper

56 100

55 85.1 56.2 84.2#



#16

Acetone

Concen: 31.643 ug/l

RT: 4.15 min Scan# 368

Delta R.T. 0.02 min

Lab File: VW015236.D

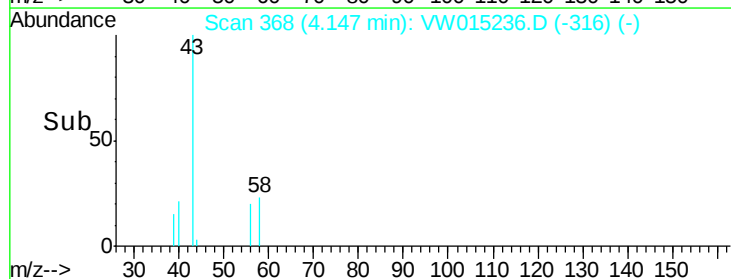
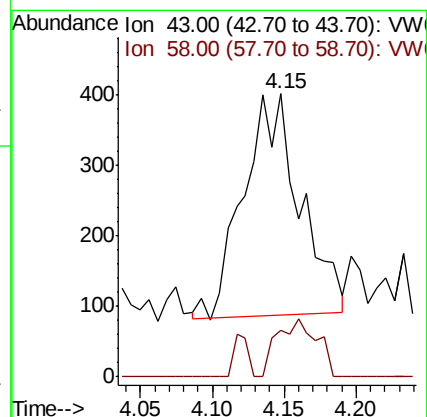
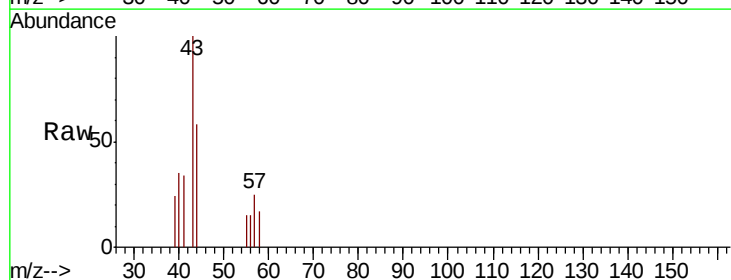
Acq: 20 Apr 2020 20:57

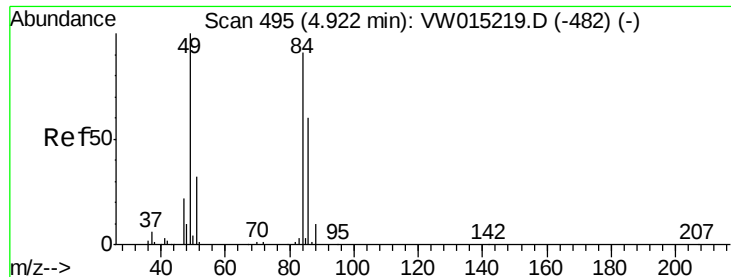
Tgt Ion: 43 Resp: 864

Ion Ratio Lower Upper

43 100

58 21.5 27.0 40.4#

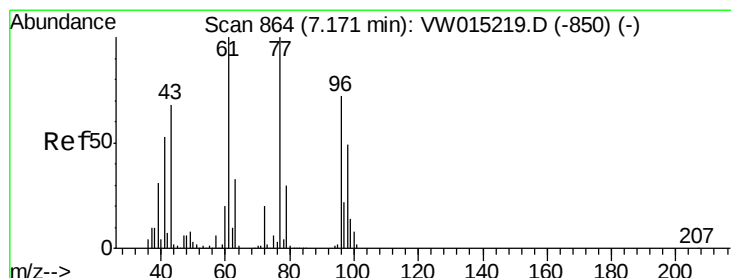
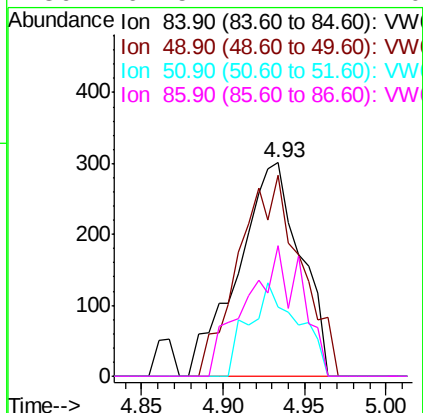
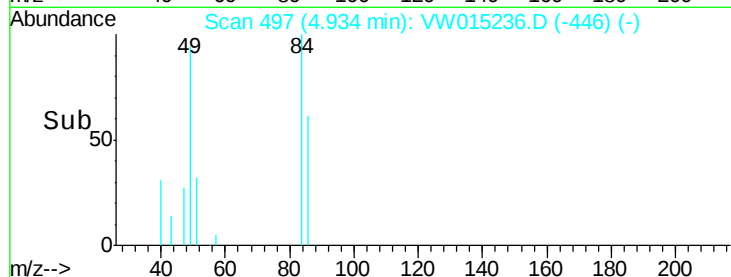
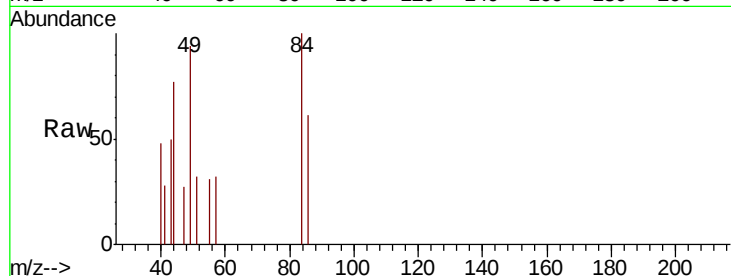




#20
Methvlene Chloride
Concen: 4.465 ug/l
RT: 4.93 min Scan# 497
Delta R.T. 0.01 min
Lab File: VW015236.D
Acq: 20 Apr 2020 20:57

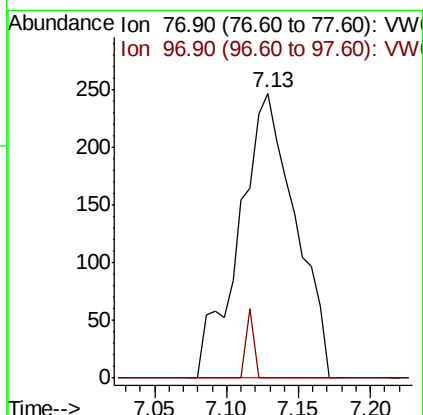
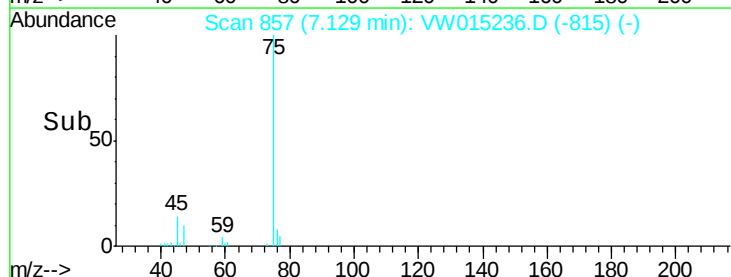
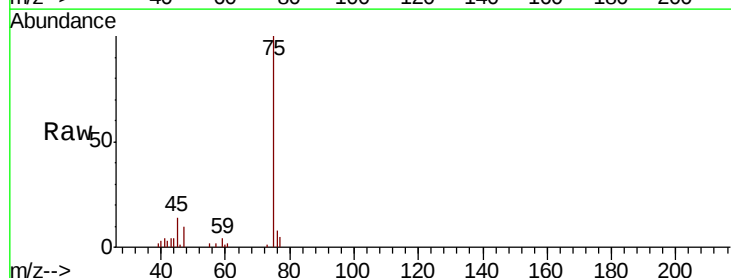
Instrument :
MSVOA_W
ClientSampled :
S-4A

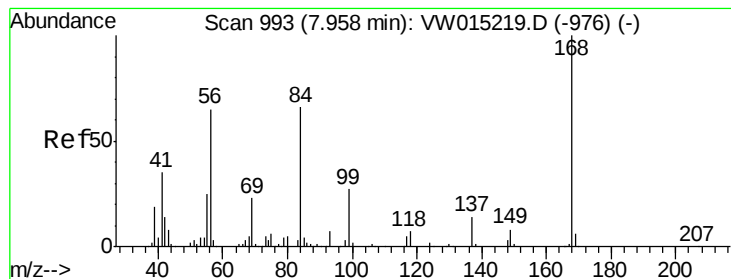
Tot Ion:	84	Resp:	799
Ion	Ratio	Lower	Upper
84	100		
49	94.0	95.4	143.0#
51	32.2	29.8	44.8
86	61.5	47.4	71.0



#26
2,2-Dichloropropane
Concen: 2.208 ug/l
RT: 7.13 min Scan# 857
Delta R.T. -0.04 min
Lab File: VW015236.D
Acq: 20 Apr 2020 20:57

Tgt Ion:	77	Resp:	668
Ion	Ratio	Lower	Upper
77	100		
97	3.3	11.9	35.5#





#31

Cyclohexane

Concen: 1.595 ug/l

RT: 7.94 min Scan# 990

Delta R.T. -0.02 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampled :

S-4A

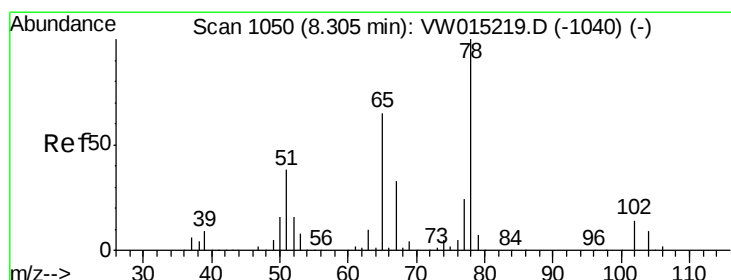
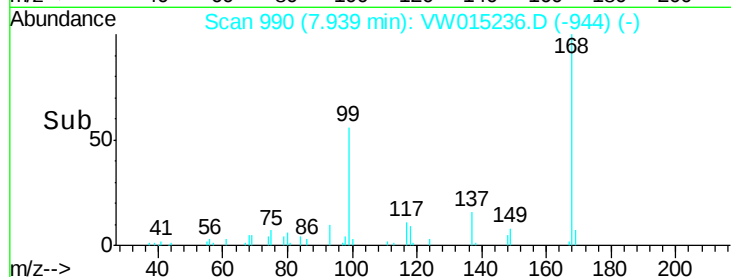
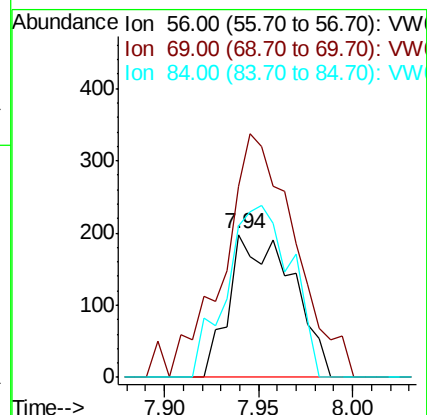
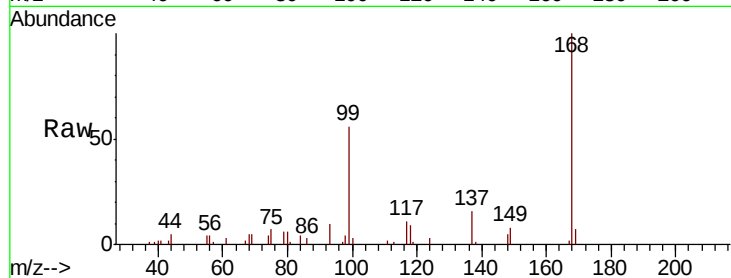
Tot Ion: 56 Resp: 461

Ion Ratio Lower Upper

56 100

69 107.6 27.1 40.7#

84 106.1 71.9 107.9



#33

1,2-Dichloroethane-d4

Concen: 49.690 ug/l

RT: 8.31 min Scan# 1051

Delta R.T. 0.01 min

Lab File: VW015236.D

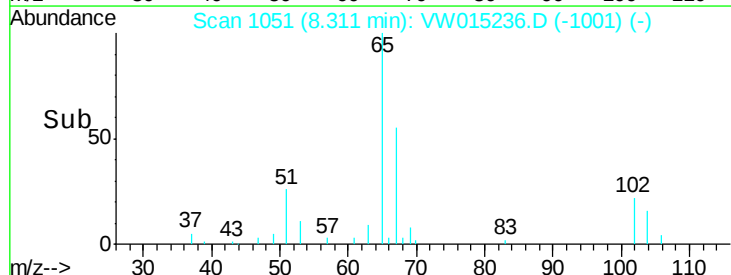
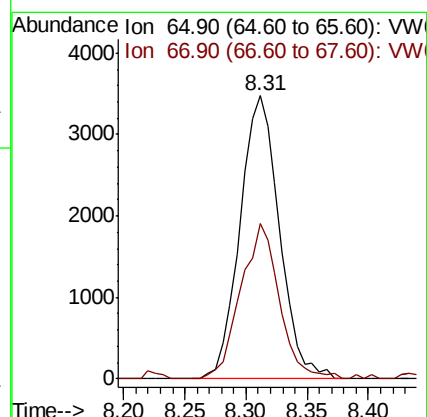
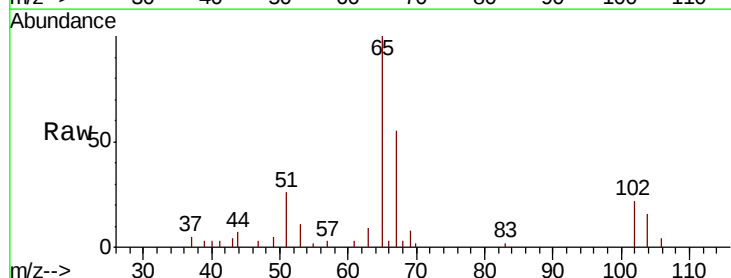
Acq: 20 Apr 2020 20:57

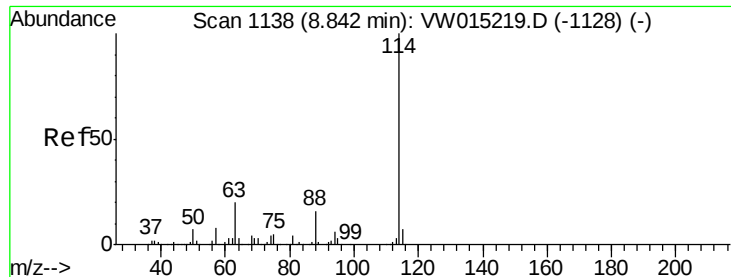
Tgt Ion: 65 Resp: 7768

Ion Ratio Lower Upper

65 100

67 54.1 0.0 107.0

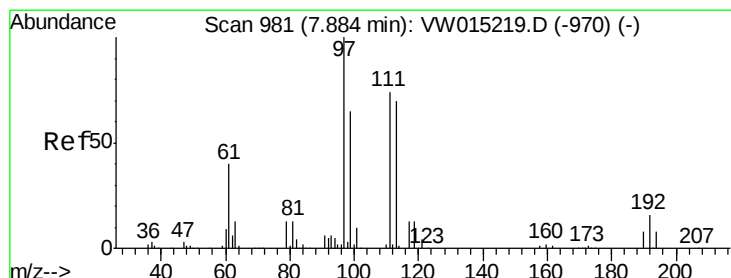
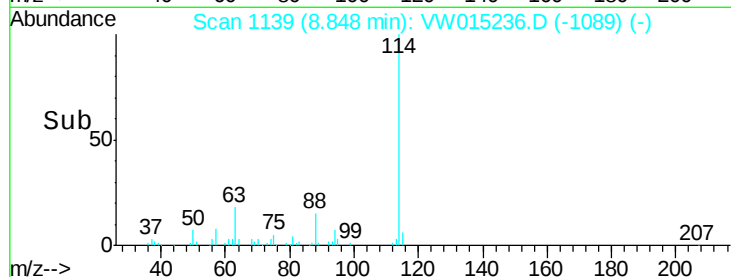
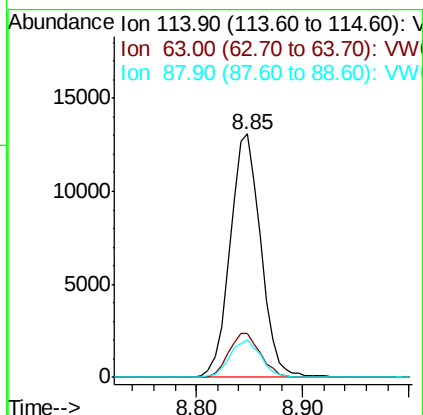
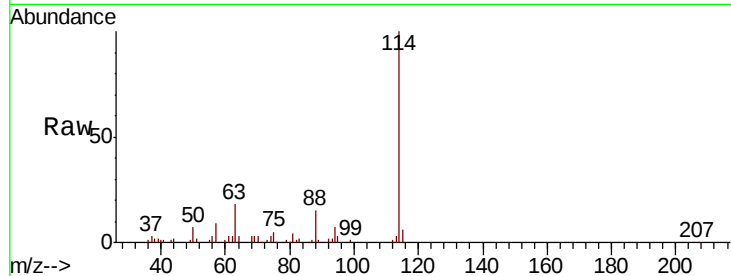




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.85 min Scan# 1139
Delta R.T. 0.01 min
Lab File: VW015236.D
Acq: 20 Apr 2020 20:57

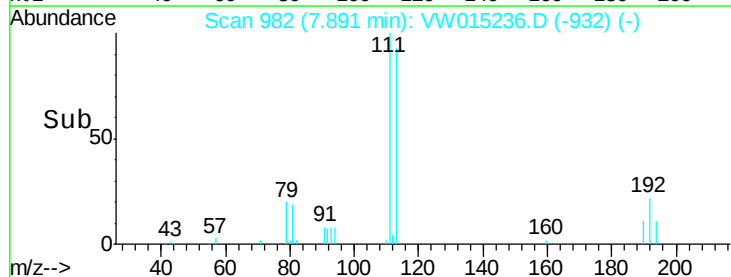
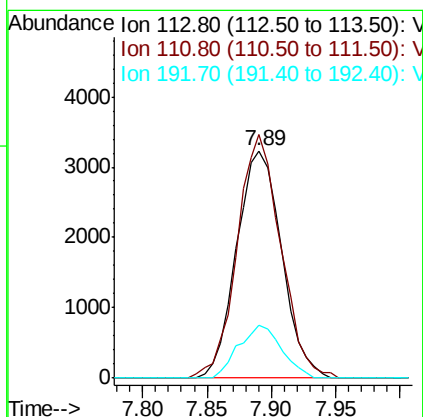
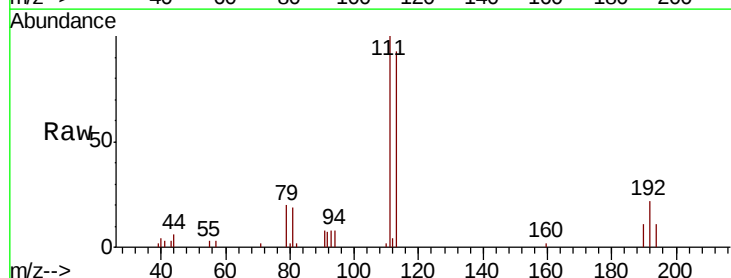
Instrument :
MSVOA_W
ClientSampleId :
S-4A

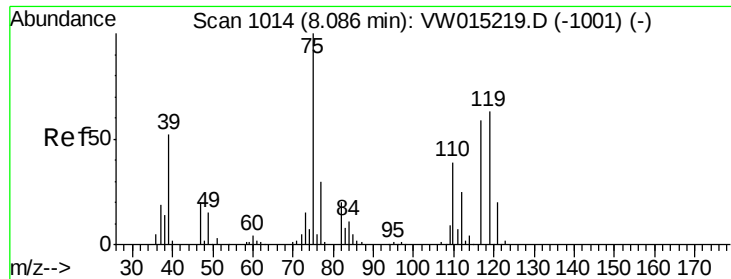
Tot Ion:114 Resp: 26441
Ion Ratio Lower Upper
114 100
63 17.8 0.0 39.8
88 15.5 0.0 30.2



#35
Dibromofluoromethane
Concen: 53.516 ug/l
RT: 7.89 min Scan# 982
Delta R.T. 0.01 min
Lab File: VW015236.D
Acq: 20 Apr 2020 20:57

Tgt Ion:113 Resp: 7838
Ion Ratio Lower Upper
113 100
111 103.6 83.0 124.4
192 22.1 15.1 22.7

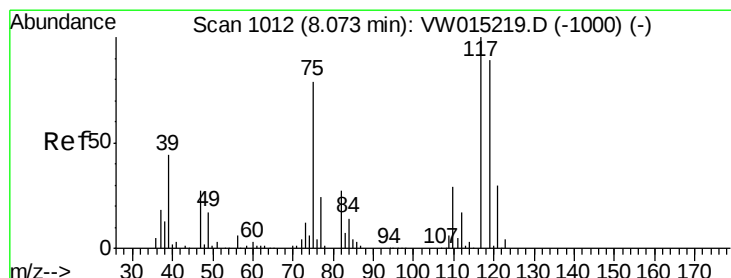
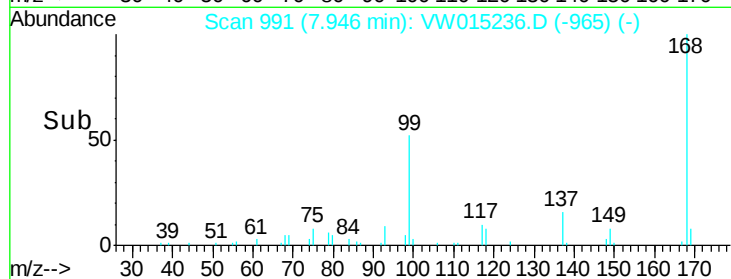
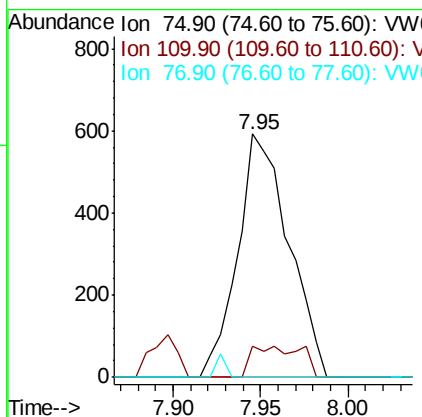
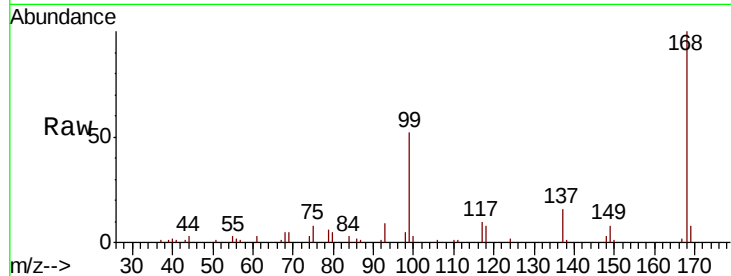




#36
 1,1-Dichloropropene
 Concen: 5.041 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.14 min
 Lab File: VW015236.D
 Acq: 20 Apr 2020 20:57

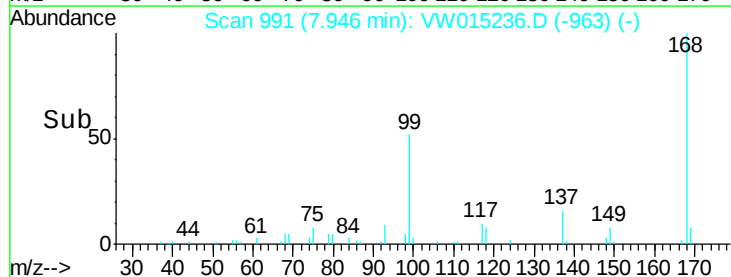
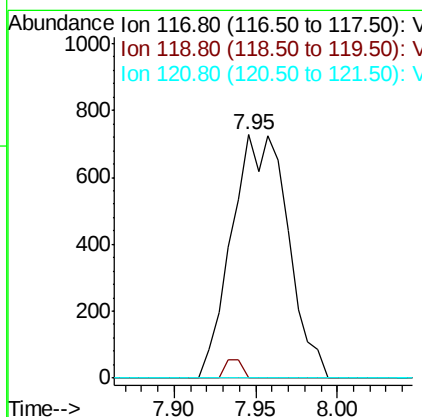
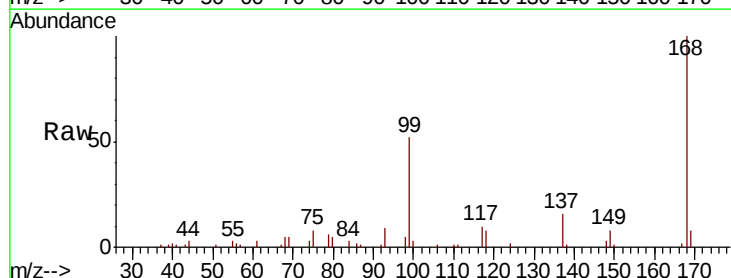
Instrument :
 MSVOA_W
 ClientSampleId :
 S-4A

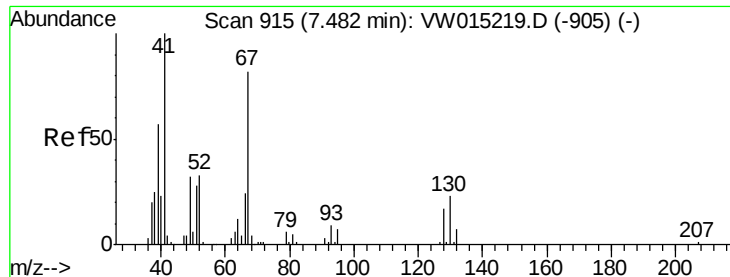
Tot Ion	Ratio	Lower	Upper
75	100		
110	12.5	18.2	54.6#
77	1.7	24.5	36.7#



#38
 Carbon Tetrachloride
 Concen: 6.691 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.13 min
 Lab File: VW015236.D
 Acq: 20 Apr 2020 20:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	0.0	72.3	108.5#
121	0.0	23.7	35.5#

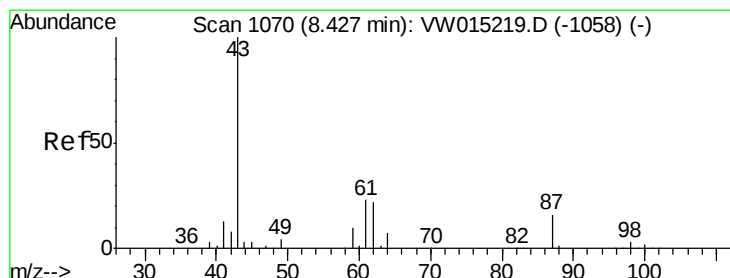
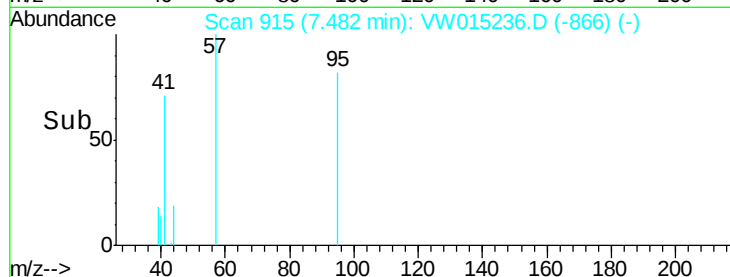
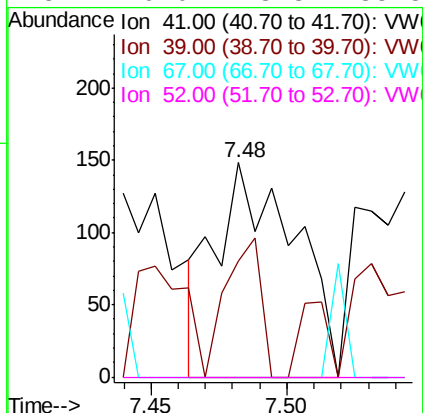
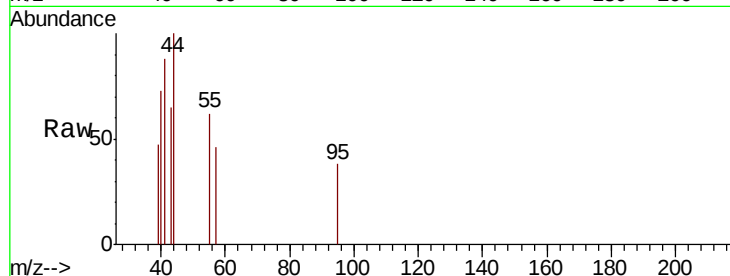




#41
Methacrylonitrile
Concen: 6.434 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW015236.D
Acq: 20 Apr 2020 20:57

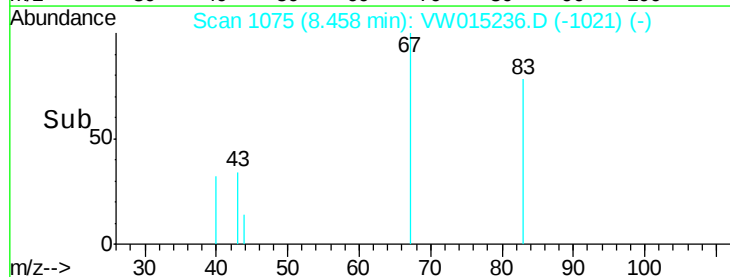
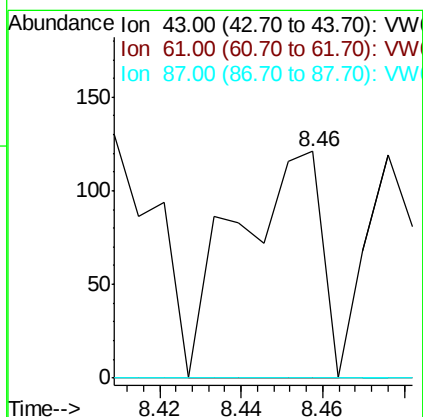
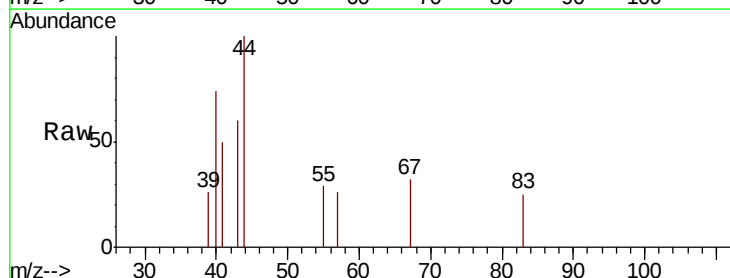
Instrument :
MSVOA_W
ClientSampled :
S-4A

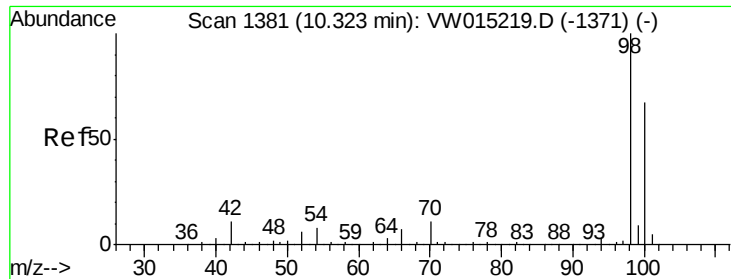
Tot Ion:	41	Resp:	299
Ion	Ratio	Lower	Upper
41	100		
39	28.8	41.9	62.9#
67	0.0	60.6	91.0#
52	0.0	23.8	35.8#



#43
Isopropyl Acetate
Concen: 1.077 ug/l
RT: 8.46 min Scan# 1075
Delta R.T. 0.03 min
Lab File: VW015236.D
Acq: 20 Apr 2020 20:57

Tgt Ion:	43	Resp:	175
Ion	Ratio	Lower	Upper
43	100		
61	0.0	24.8	37.2#
87	0.0	11.4	17.2#





#50

Toluene-d8

Concen: 46.997 ug/l

RT: 10.32 min Scan# 1381

Delta R.T. 0.00 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampled :

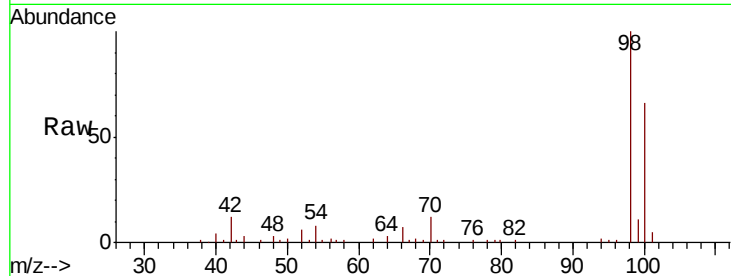
S-4A

Tot Ion: 98 Resp: 28956

Ion Ratio Lower Upper

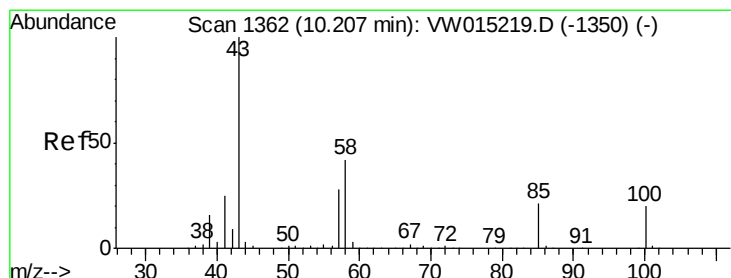
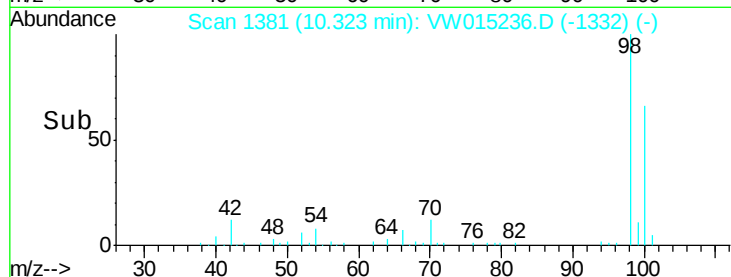
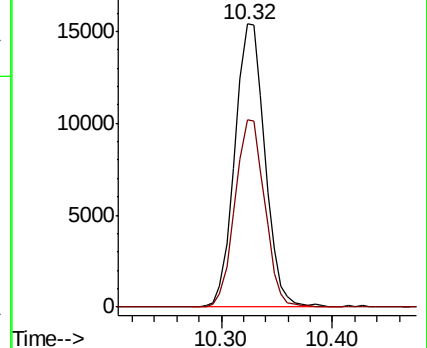
98 100

100 65.4 52.9 79.3



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: 2.400 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW015236.D

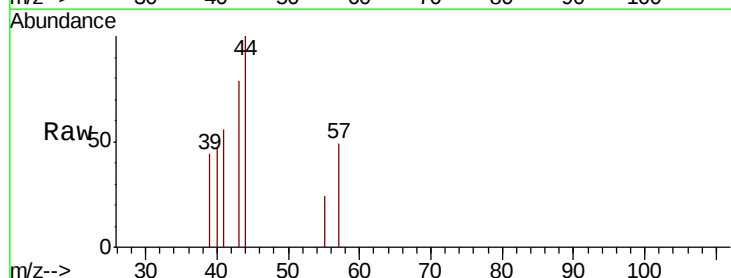
Acq: 20 Apr 2020 20:57

Tgt Ion: 43 Resp: 183

Ion Ratio Lower Upper

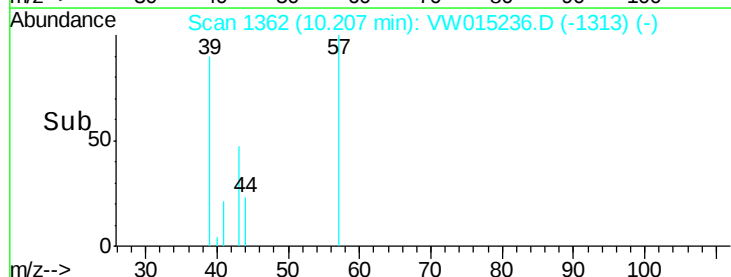
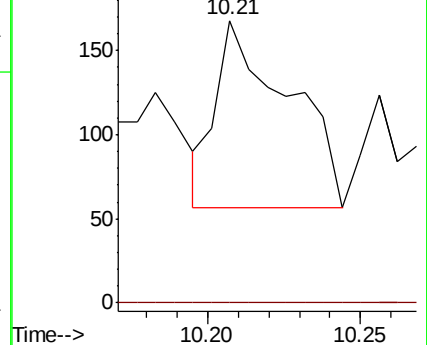
43 100

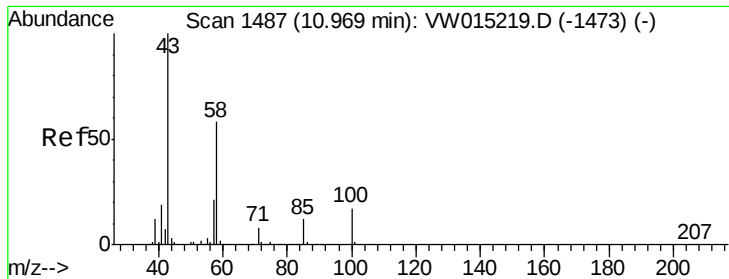
58 0.0 32.3 48.5#



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW





#59

2-Hexanone

Concen: 3.307 ug/l

RT: 10.96 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampled :

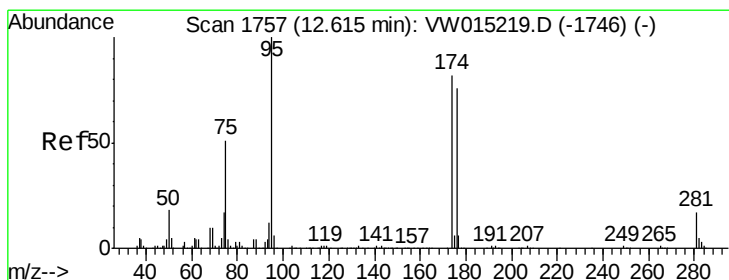
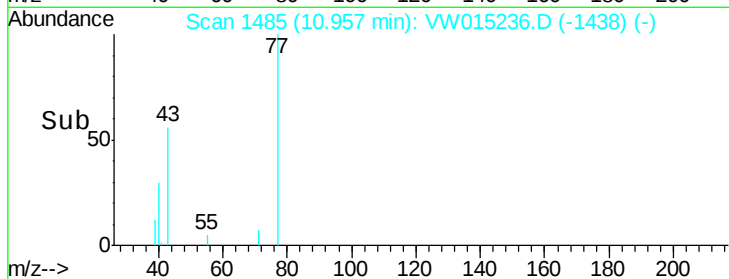
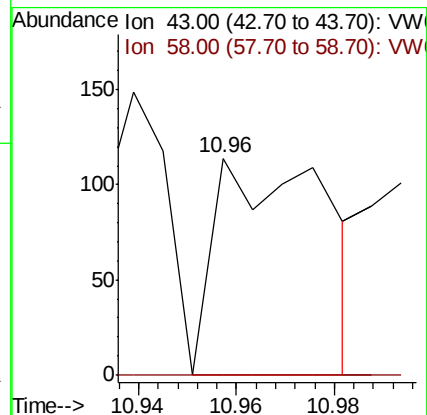
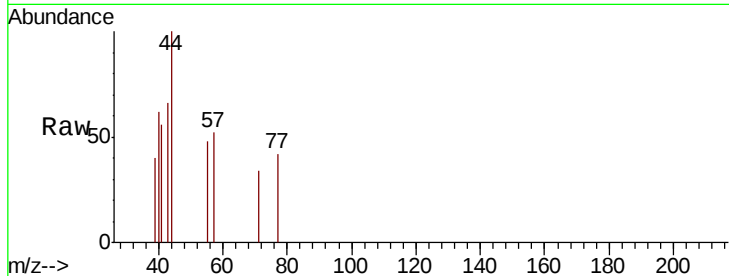
S-4A

Tot Ion: 43 Resp: 180

Ion Ratio Lower Upper

43 100

58 0.0 28.1 84.3#



#62

4-Bromofluorobenzene

Concen: 28.995 ug/l

RT: 12.62 min Scan# 1758

Delta R.T. 0.01 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

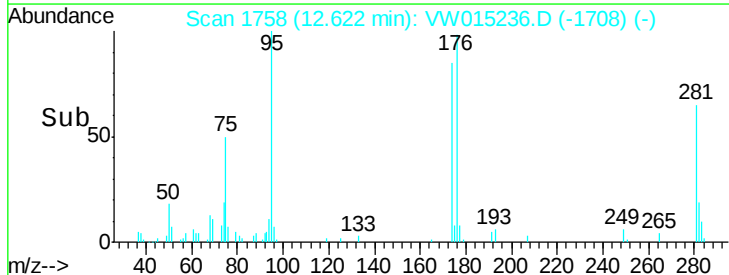
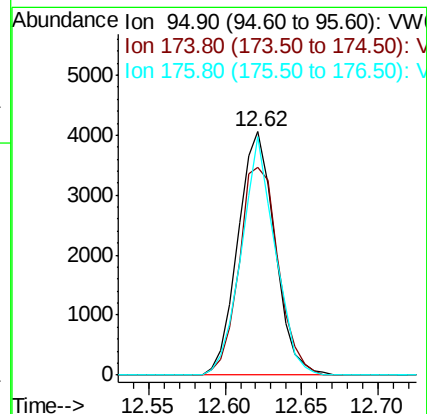
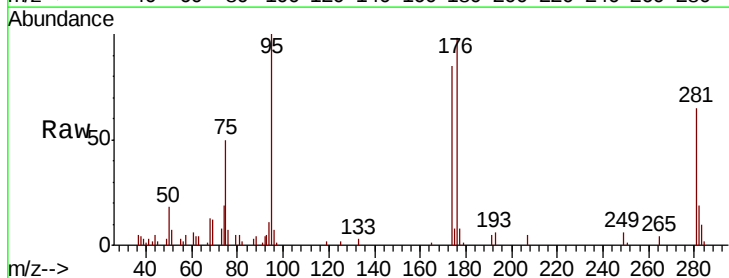
Tgt Ion: 95 Resp: 6816

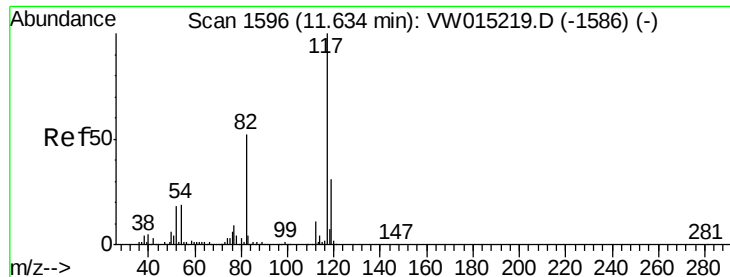
Ion Ratio Lower Upper

95 100

174 90.8 0.0 144.4

176 88.8 0.0 140.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.00 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampleId :

S-4A

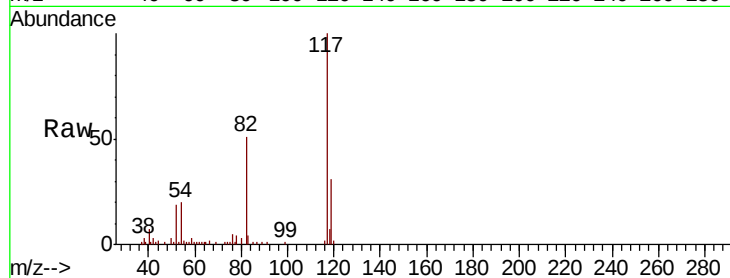
Tot Ion:117 Resp: 19483

Ion Ratio Lower Upper

117 100

82 50.5 44.1 66.1

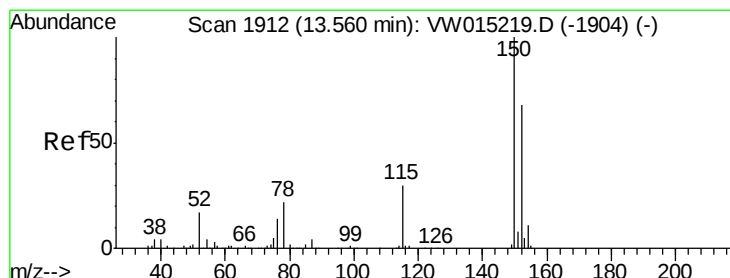
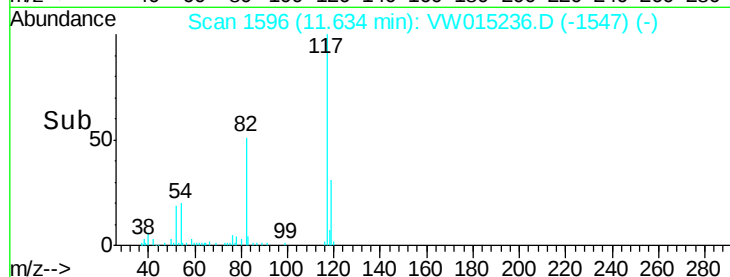
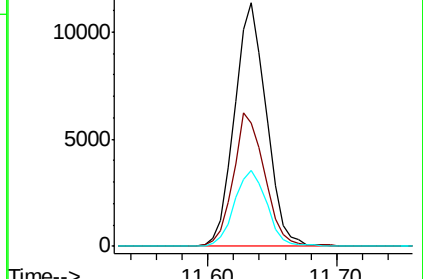
119 31.3 24.9 37.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VW

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. 0.00 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

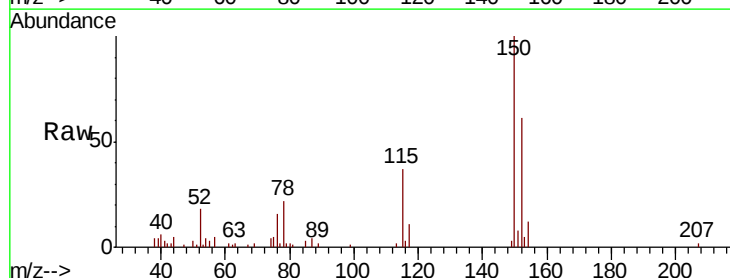
Tgt Ion:152 Resp: 4362

Ion Ratio Lower Upper

152 100

115 57.6 31.3 93.9

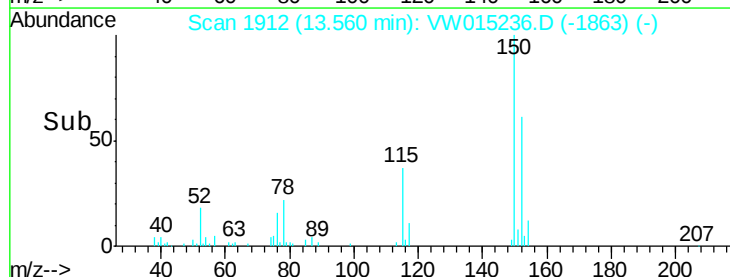
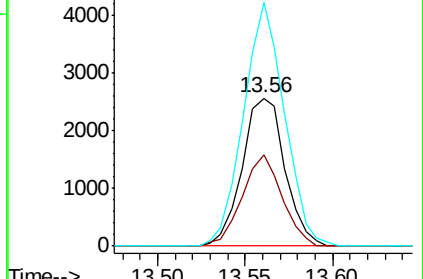
150 157.3 0.0 343.4

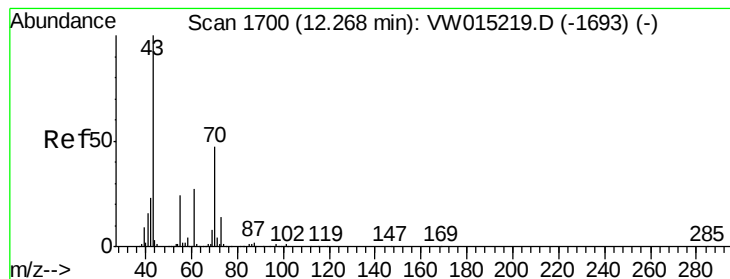


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.026 ug/l

RT: 12.30 min Scan# 1706

Delta R.T. 0.04 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampled :

S-4A

Tot Ion: 43 Resp: 54

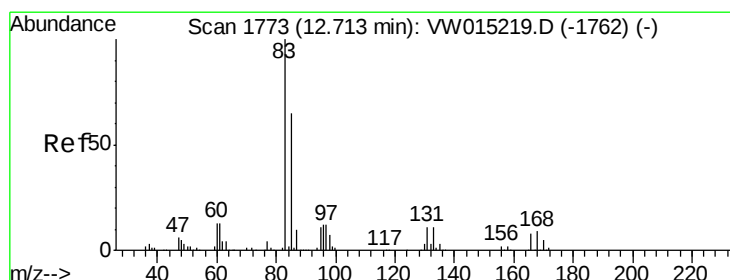
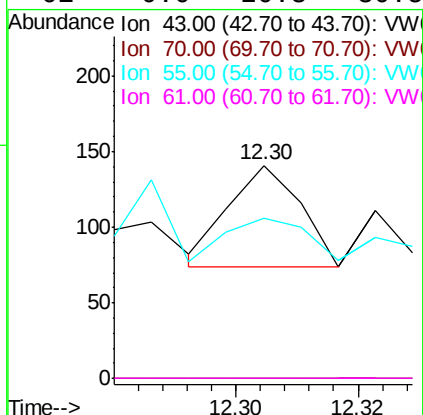
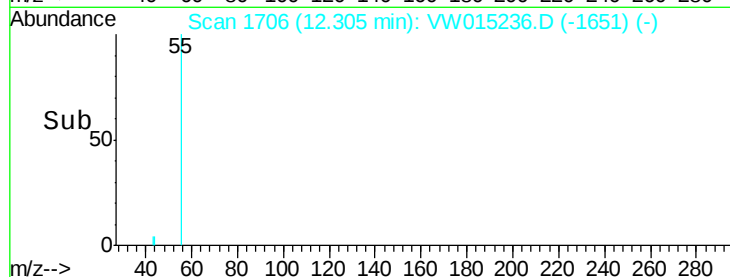
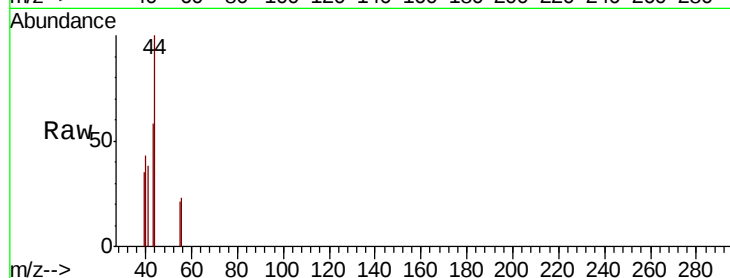
Ion Ratio Lower Upper

43 100

70 0.0 35.4 53.2#

55 50.0 18.5 27.7#

61 0.0 20.3 30.5#



#75

1,1,2,2-Tetrachloroethane

Concen: 1.141 ug/l

RT: 12.92 min Scan# 1807

Delta R.T. 0.21 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

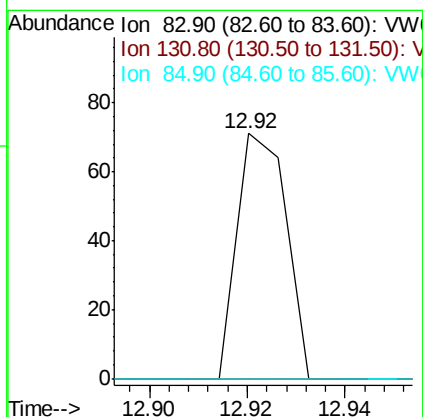
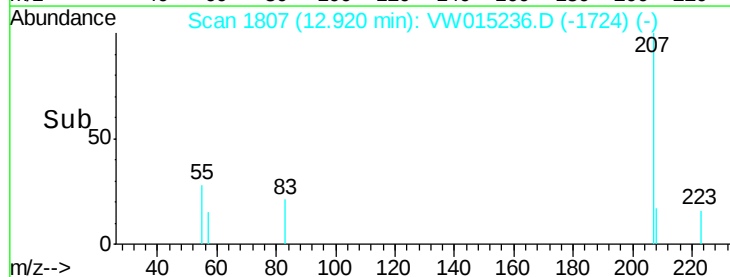
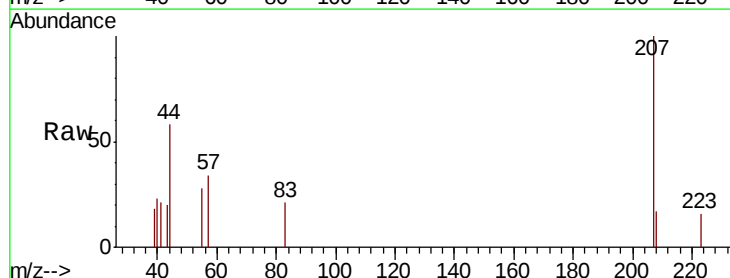
Tgt Ion: 83 Resp: 49

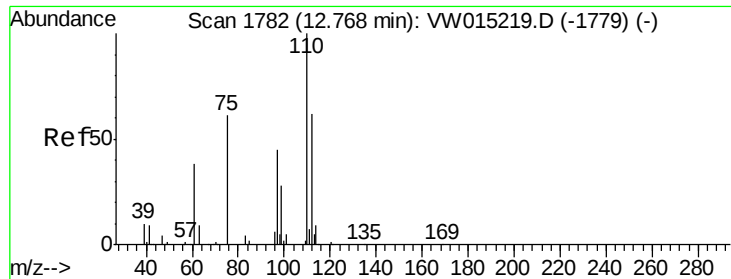
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.2#

85 0.0 32.3 96.8#

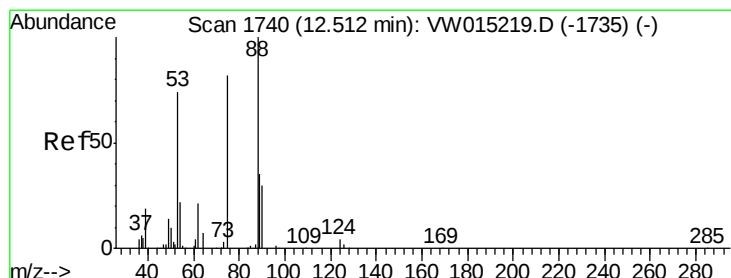
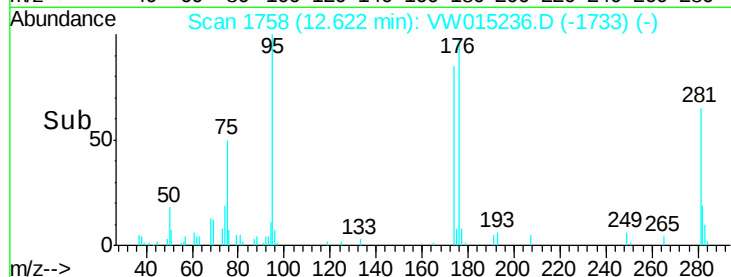
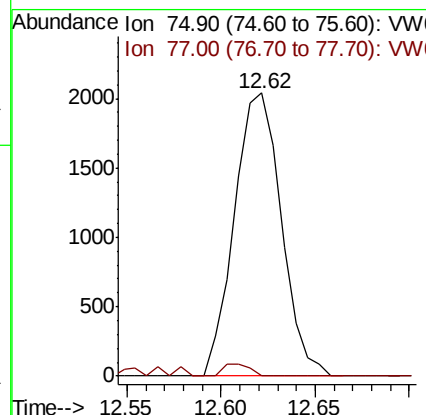
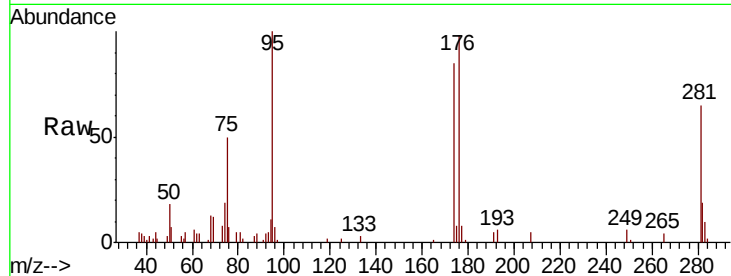




#76
 1,2,3-Trichloropropane
 Concen: 104.312 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.15 min
 Lab File: VW015236.D
 Acq: 20 Apr 2020 20:57

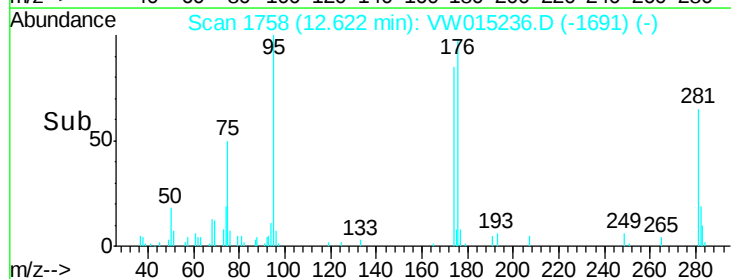
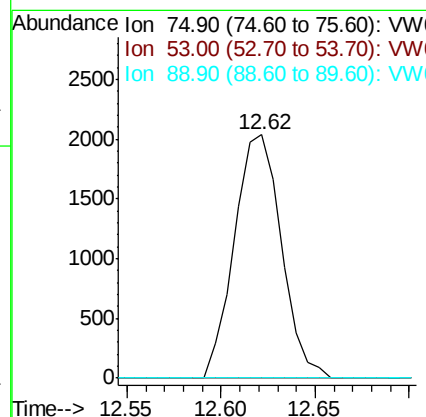
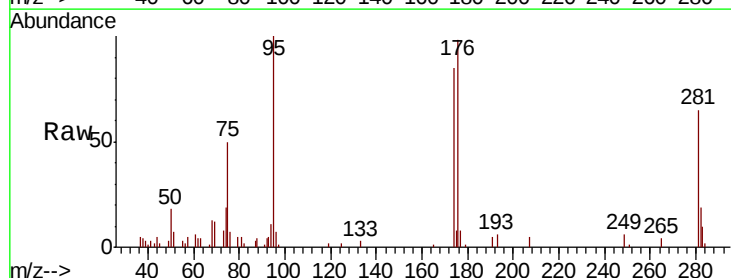
Instrument :
 MSVOA_W
 ClientSampleId :
 S-4A

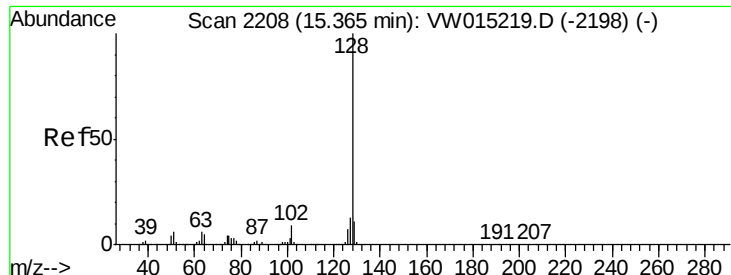
Tot Ion: 75 Resp: 3520
 Ion Ratio Lower Upper
 75 100
 77 2.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 228.028 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.11 min
 Lab File: VW015236.D
 Acq: 20 Apr 2020 20:57

Tgt Ion: 75 Resp: 3520
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.4 104.2#
 89 0.0 34.8 52.2#





#95

Naphthalene

Concen: 2.371 ug/l

RT: 15.37 min Scan# 2209

Delta R.T. 0.01 min

Lab File: VW015236.D

Acq: 20 Apr 2020 20:57

Instrument :

MSVOA_W

ClientSampleId :

S-4A

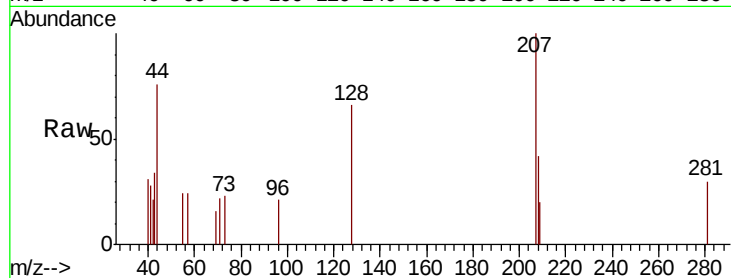
Tot Ion:128 Resp: 318

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



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

