

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121719\
 Data File : VN059636.D
 Acq On : 17 Dec 2019 19:32
 Operator : JC/SP
 Sample : K6317-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 178K-WC1

Quant Time: Dec 18 05:50:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 23:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	226030	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	372761	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	336639	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	127488	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	168282	51.16	ug/l	0.00
Spiked Amount			Recovery	=	102.32%	
35) Dibromofluoromethane	7.57	113	119666	51.31	ug/l	0.00
Spiked Amount			Recovery	=	102.62%	
50) Toluene-d8	10.08	98	469155	50.81	ug/l	0.00
Spiked Amount			Recovery	=	101.62%	
62) 4-Bromofluorobenzene	12.40	95	150821	44.76	ug/l	0.00
Spiked Amount			Recovery	=	89.52%	

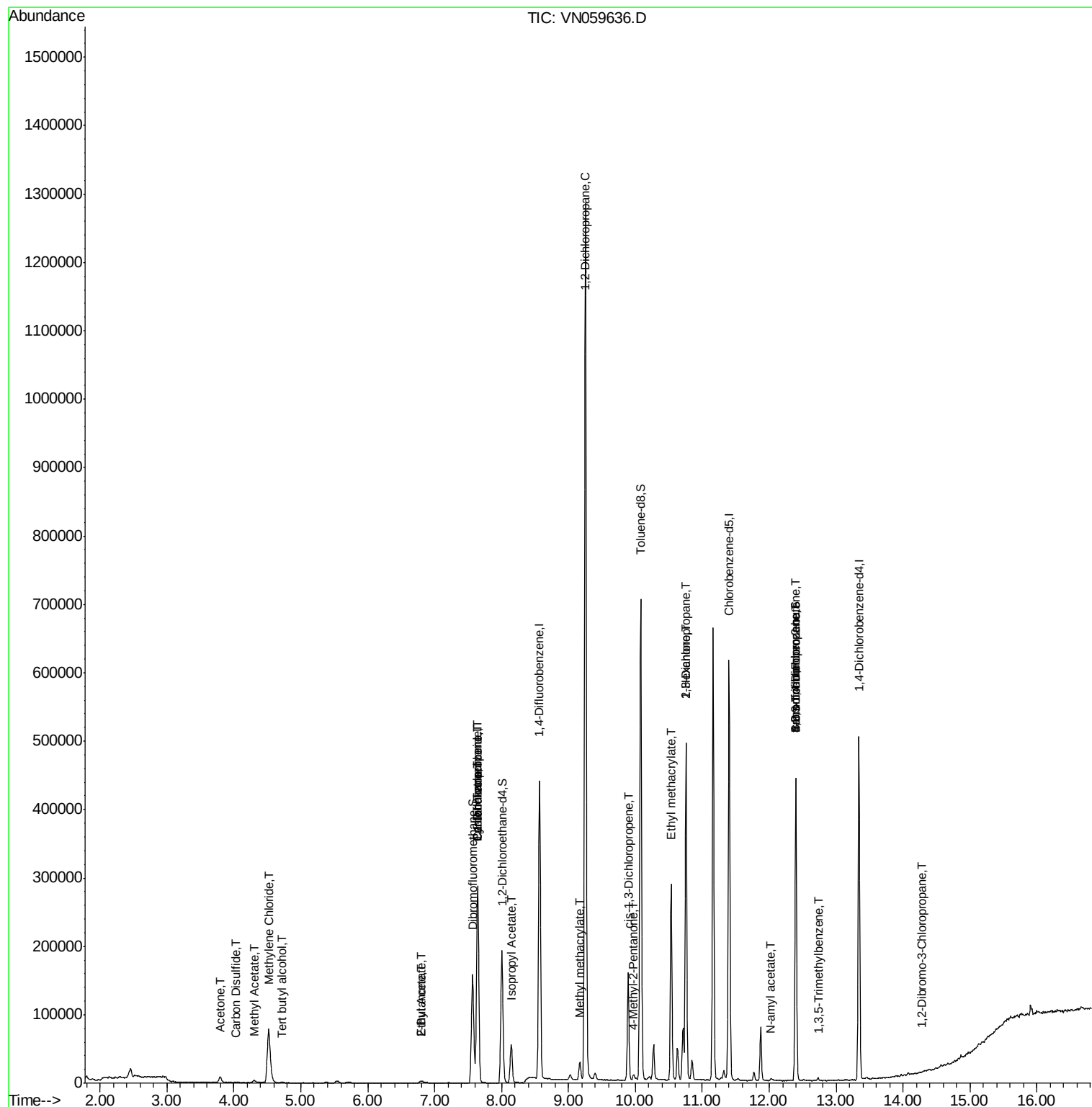
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	153	0.254	ug/l #	72
16) Acetone	3.79	43	13883	7.109	ug/l	98
17) Carbon Disulfide	4.02	76	1754	2.082	ug/l #	75
18) Methyl Acetate	4.30	43	7432	1.816	ug/l #	86
20) Methylene Chloride	4.52	84	59684	21.163	ug/l	95
25) 2-Butanone	6.81	43	1128	0.483	ug/l #	89
31) Cyclohexane	7.64	56	5491	1.143	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	18765	4.827	ug/l #	50
37) Ethyl Acetate	6.81	43	1128	0.250	ug/l #	69
38) Carbon Tetrachloride	7.64	117	22332	5.536	ug/l #	16
43) Isopropyl Acetate	8.14	43	66860	9.518	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1381	0.450	ug/l #	44
48) Methyl methacrylate	9.16	41	4770	1.497	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	5925	1.415	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	24973	5.126	ug/l #	67
56) Ethyl methacrylate	10.54	69	1127	0.277	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4956	1.039	ug/l #	42
59) 2-Hexanone	10.76	43	75327	22.821	ug/l #	52
71) Bromoform	12.40	173	1124	0.540	ug/l #	1
74) N-amyl acetate	12.02	43	3158	0.688	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	79623	25.229	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2097	0.248	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	79623	62.312	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	279	1.927	ug/l #	6

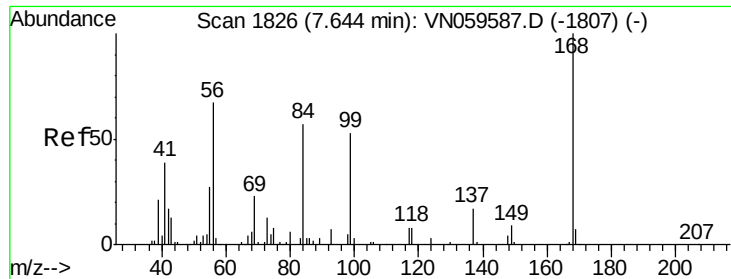
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 13 23:17:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059636.D

Acq: 17 Dec 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

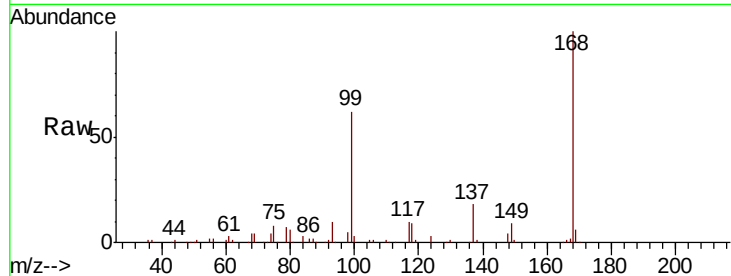
178K-WC1

Tot Ion:168 Resp: 226030

Ion Ratio Lower Upper

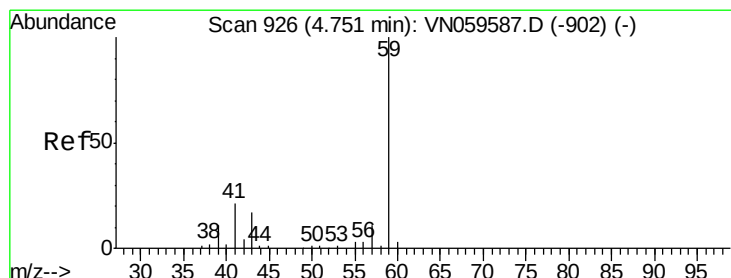
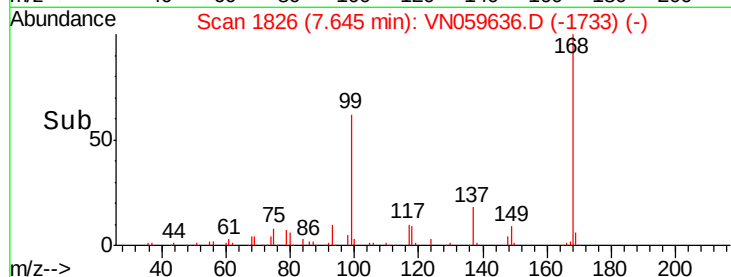
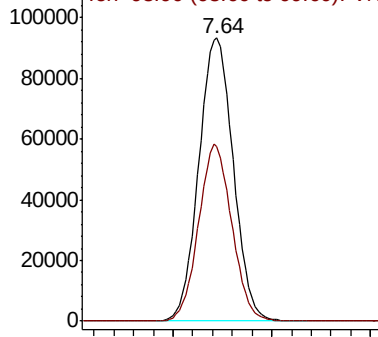
168 100

99 61.6 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.254 ug/l

RT: 4.71 min Scan# 912

Delta R.T. -0.04 min

Lab File: VN059636.D

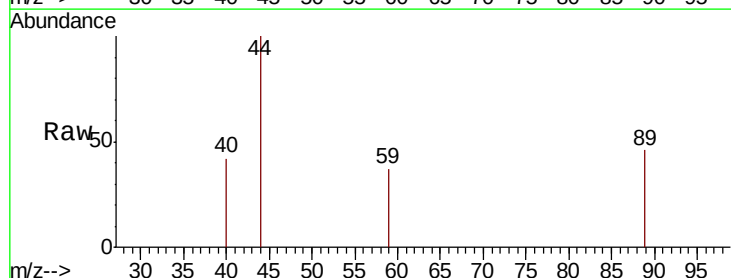
Acq: 17 Dec 2019 19:32

Tgt Ion: 59 Resp: 153

Ion Ratio Lower Upper

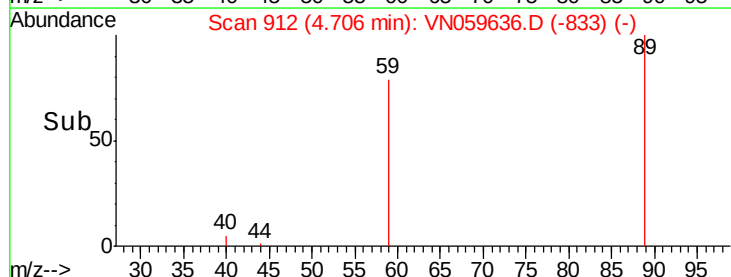
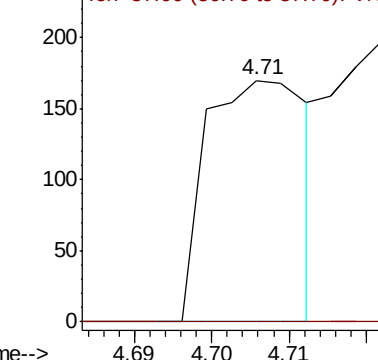
59 100

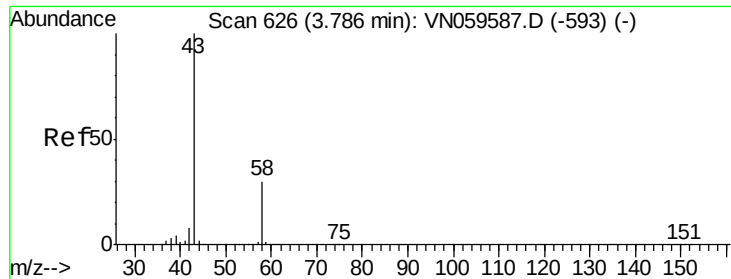
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 7.109 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN059636.D

Acq: 17 Dec 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

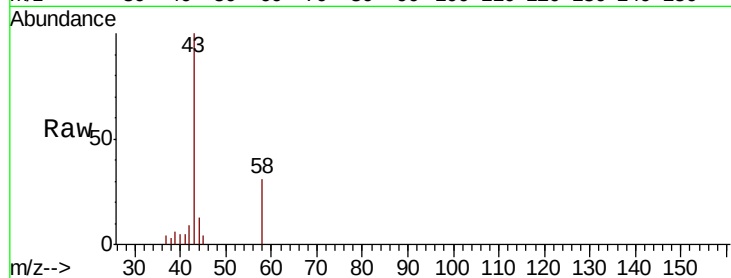
178K-WC1

Tot Ion: 43 Resp: 13883

Ion Ratio Lower Upper

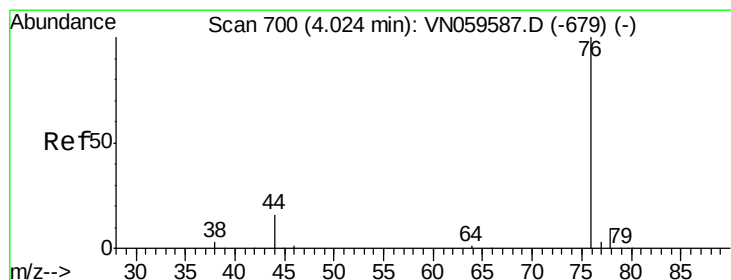
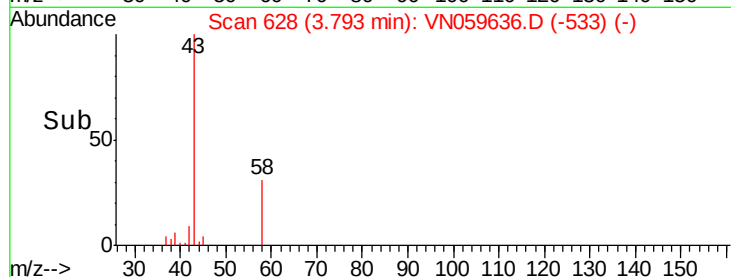
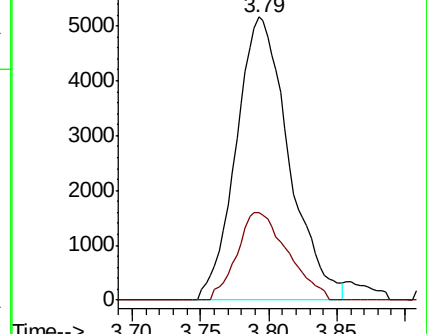
43 100

58 30.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 2.082 ug/l

RT: 4.02 min Scan# 700

Delta R.T. 0.00 min

Lab File: VN059636.D

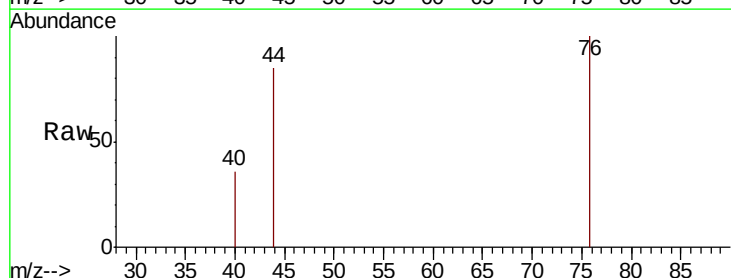
Acq: 17 Dec 2019 19:32

Tgt Ion: 76 Resp: 1754

Ion Ratio Lower Upper

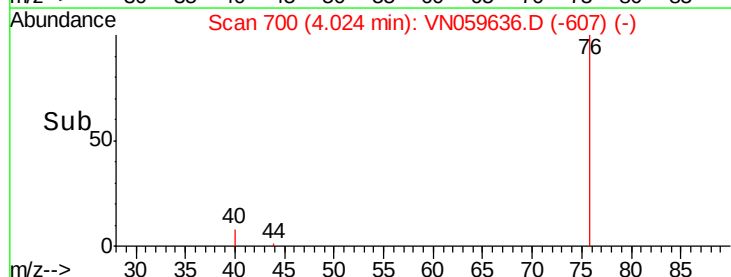
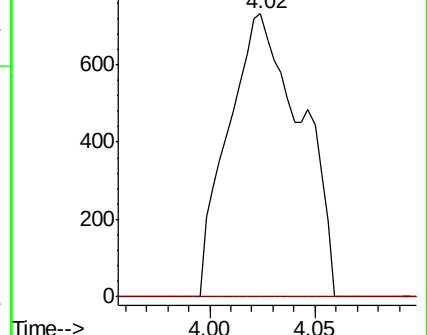
76 100

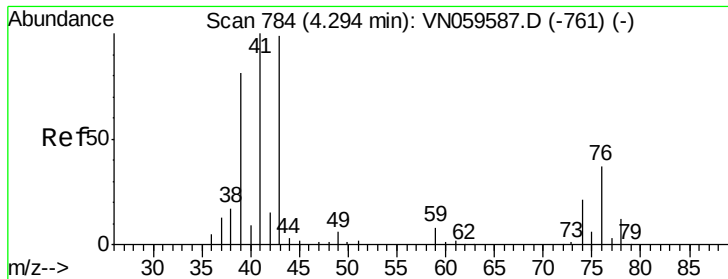
78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

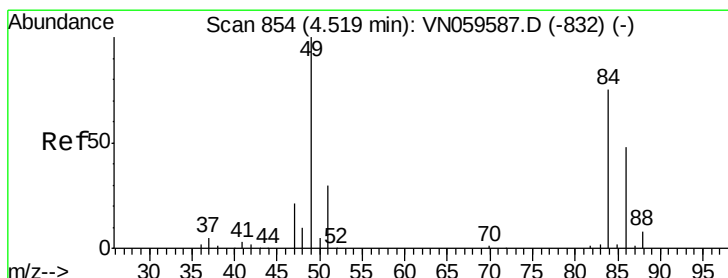
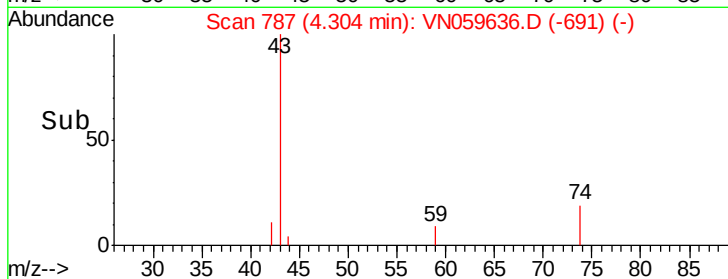
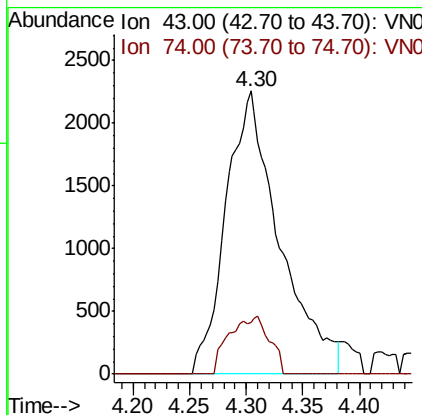
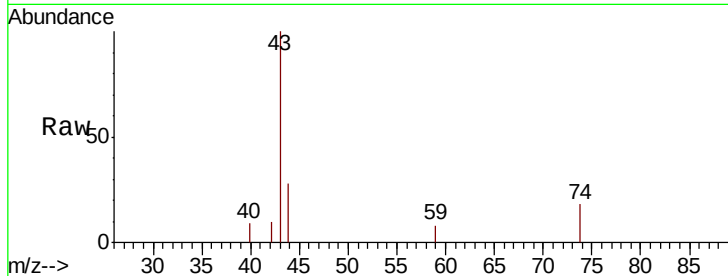




#18
Methyl Acetate
Concen: 1.816 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.01 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

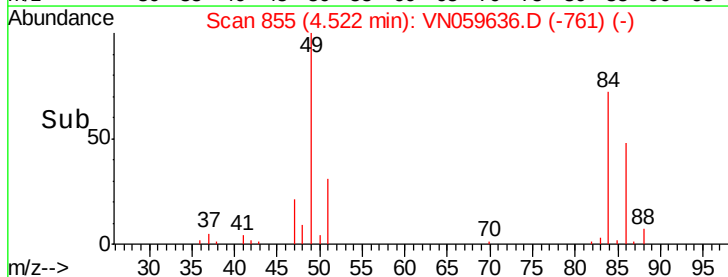
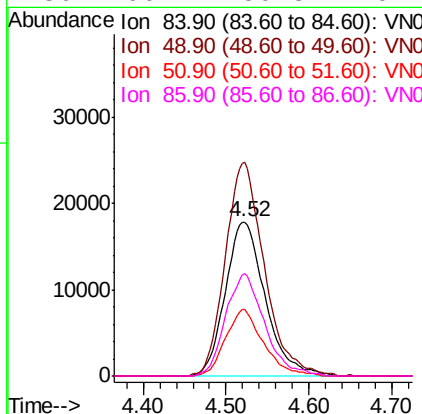
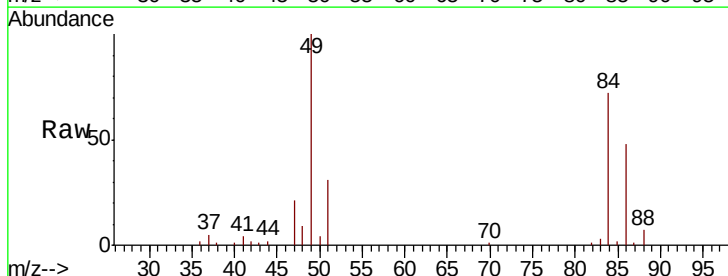
Instrument :
MSVOA_N
ClientSampled :
178K-WC1

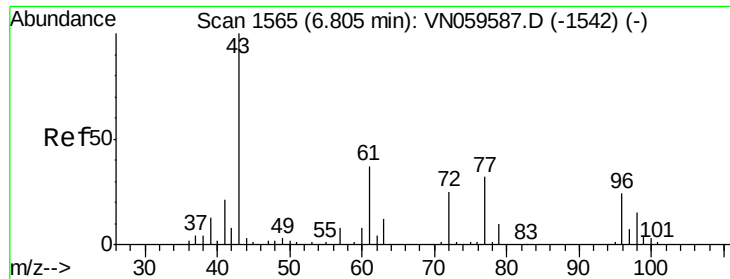
Tot Ion: 43 Resp: 7432
Ion Ratio Lower Upper
43 100
74 15.3 17.5 26.3#



#20
Methylene Chloride
Concen: 21.163 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Tgt Ion: 84 Resp: 59684
Ion Ratio Lower Upper
84 100
49 138.9 106.6 160.0
51 43.3 31.9 47.9
86 66.7 50.8 76.2

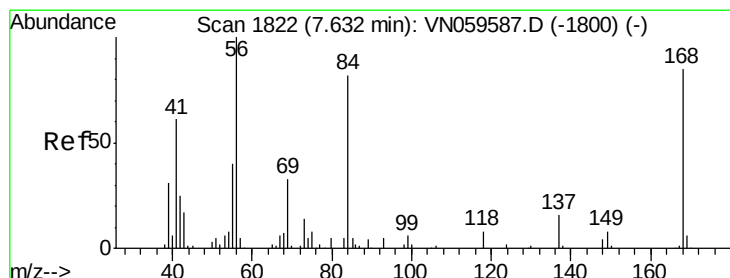
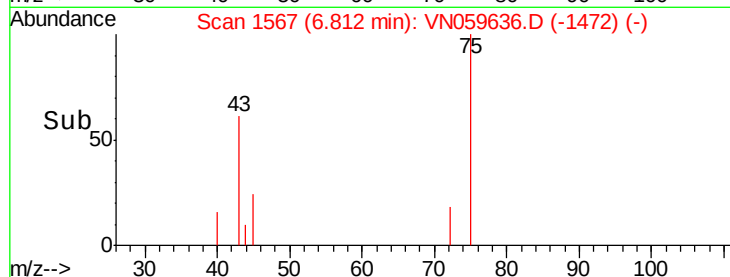
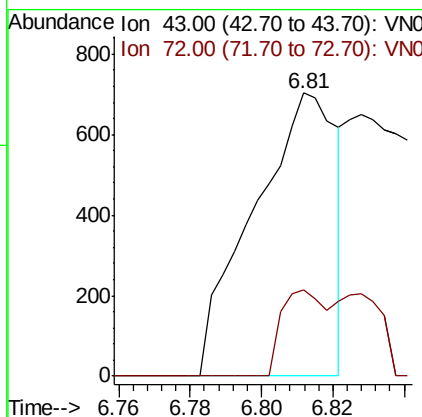
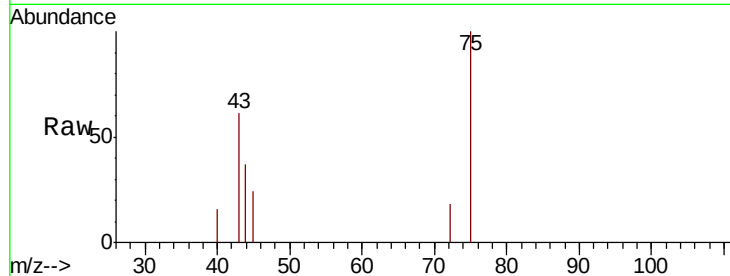




#25
2-Butanone
Concen: 0.483 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

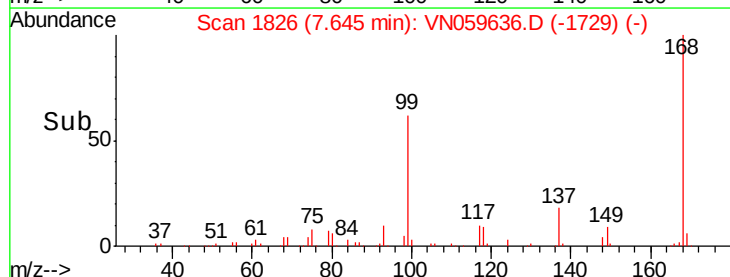
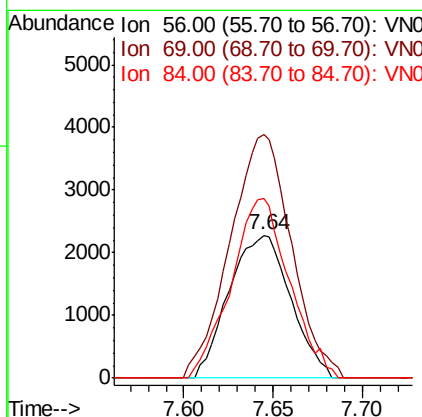
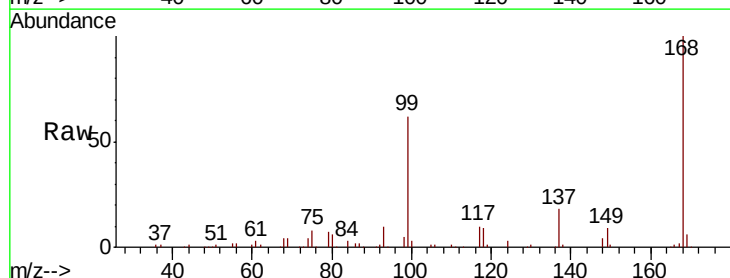
Instrument :
MSVOA_N
ClientSampleId :
178K-WC1

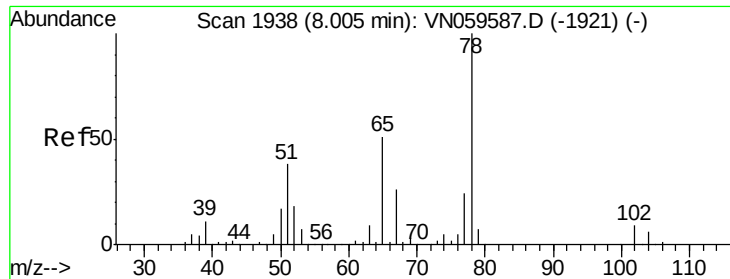
Tot Ion: 43 Resp: 1128
Ion Ratio Lower Upper
43 100
72 30.3 19.9 29.9#



#31
Cyclohexane
Concen: 1.143 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Tgt Ion: 56 Resp: 5491
Ion Ratio Lower Upper
56 100
69 162.9 26.5 39.7#
84 126.0 65.3 97.9#

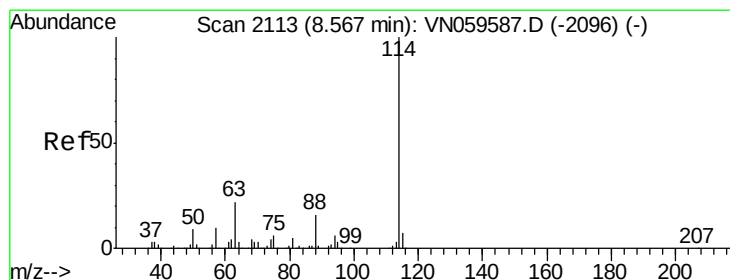
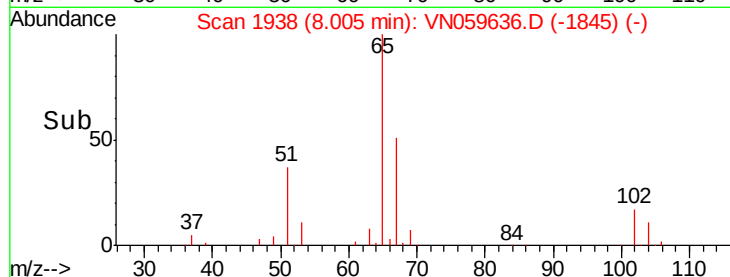
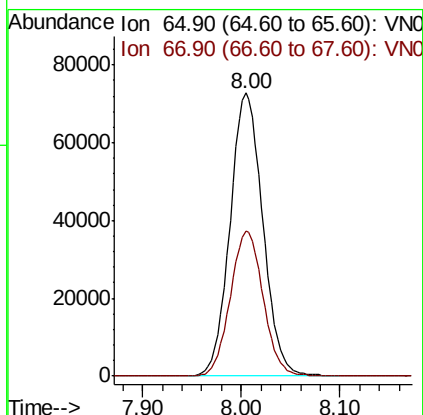
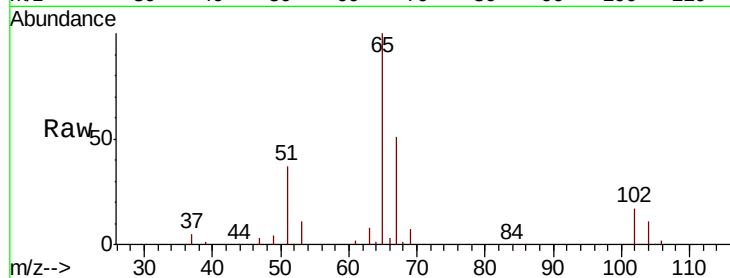




#33
 1,2-Dichloroethane-d4
 Concen: 51.164 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN059636.D
 Acq: 17 Dec 2019 19:32

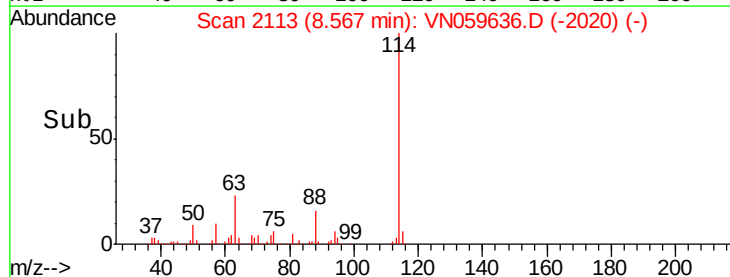
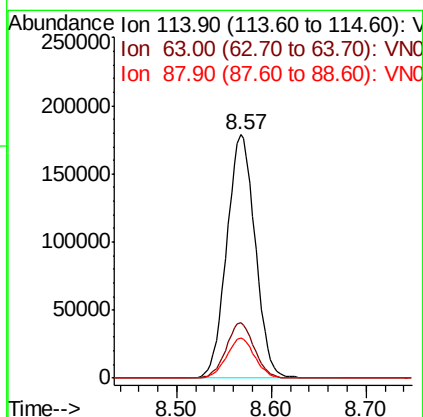
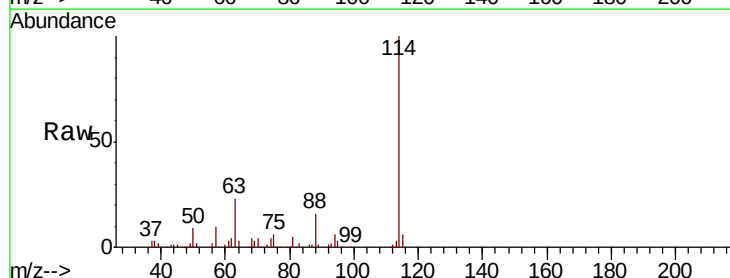
Instrument :
 MSVOA_N
 ClientSampleId :
 178K-WC1

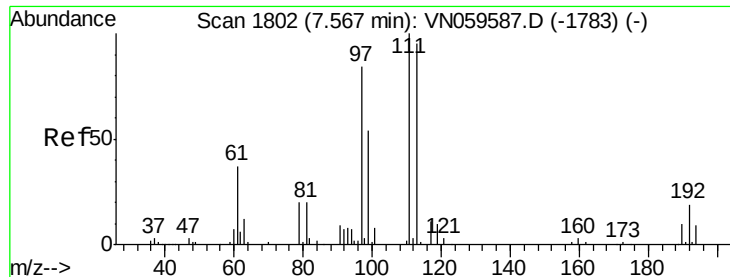
Tot Ion: 65 Resp: 168282
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059636.D
 Acq: 17 Dec 2019 19:32

Tgt Ion: 114 Resp: 372761
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 43.6
 88 16.3 0.0 31.4

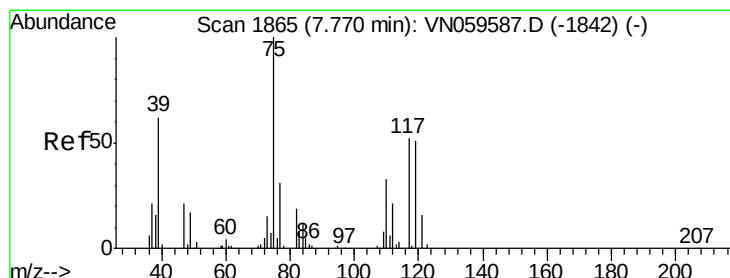
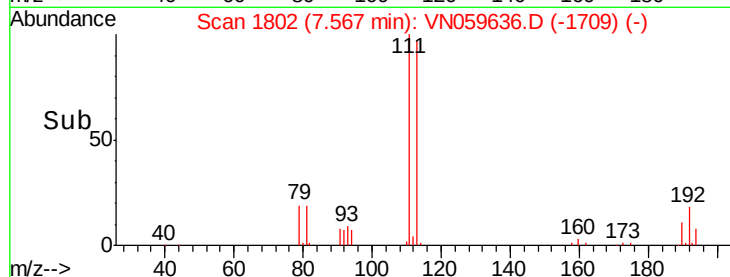
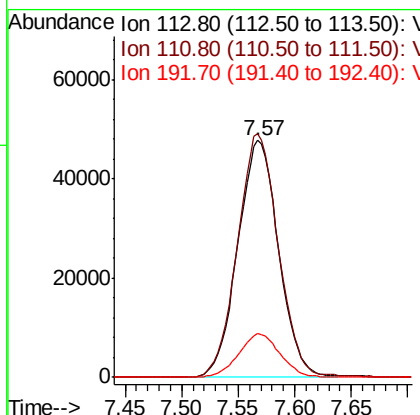
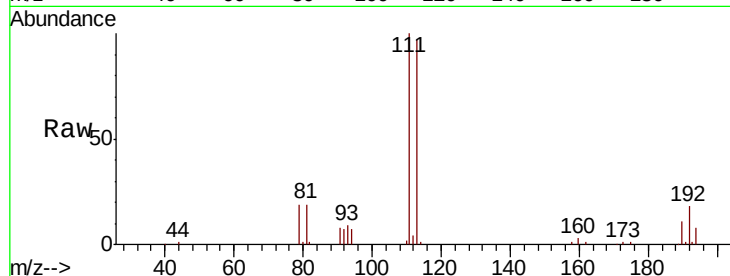




#35
 Dibromofluoromethane
 Concen: 51.308 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059636.D
 Acq: 17 Dec 2019 19:32

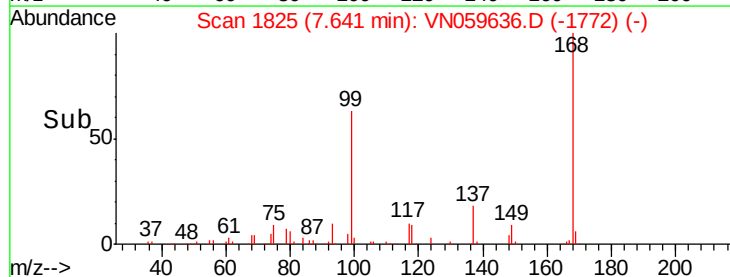
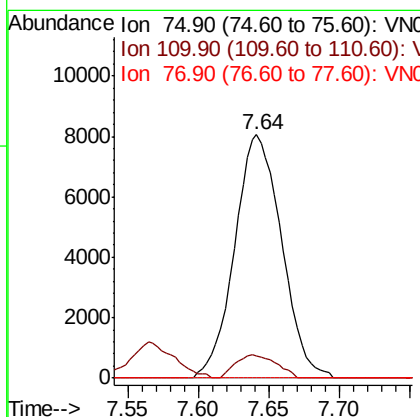
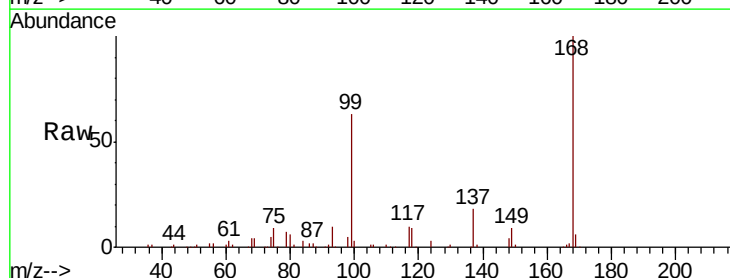
Instrument :
 MSVOA_N
 ClientSampleId :
 178K-WC1

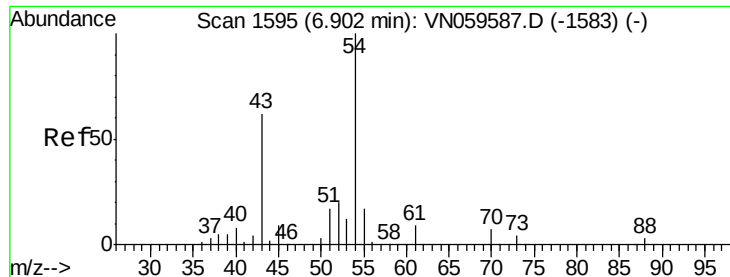
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	83.5	125.3
192	18.6	15.4	23.2



#36
 1,1-Dichloropropene
 Concen: 4.827 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059636.D
 Acq: 17 Dec 2019 19:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	16.6	49.7#
77	0.0	25.1	37.7#

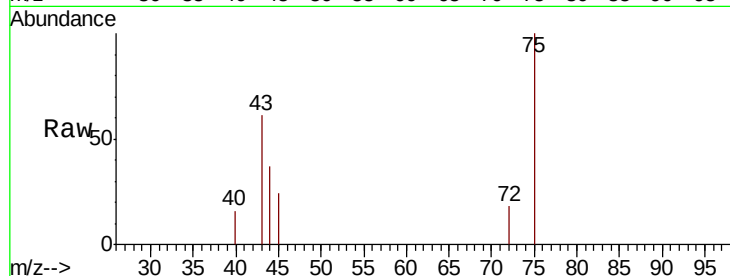




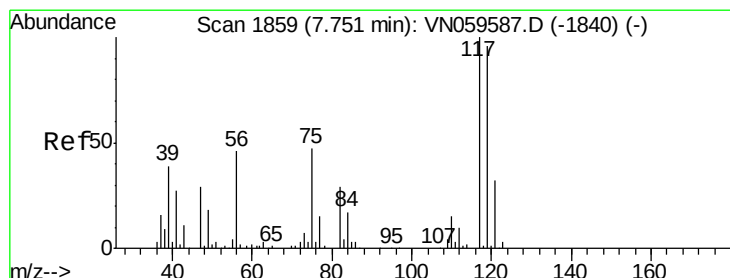
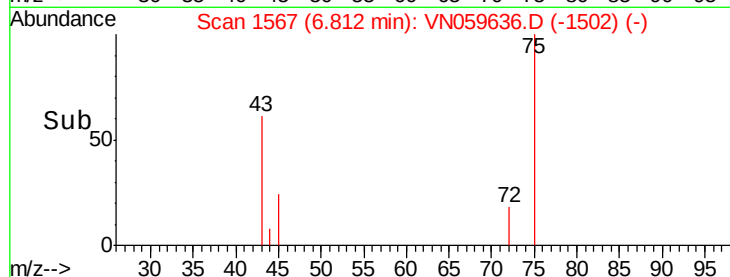
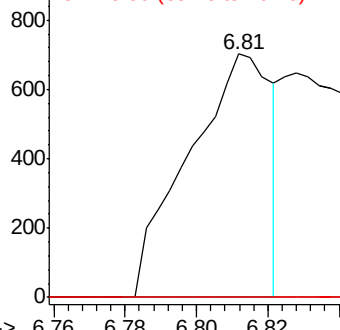
#37
Ethyl Acetate
Concen: 0.250 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.09 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Instrument :
MSVOA_N
ClientSampleId :
178K-WC1

Tot Ion: 43 Resp: 1128
Ion Ratio Lower Upper
43 100
61 0.0 10.9 16.3#
70 0.0 7.7 11.5#

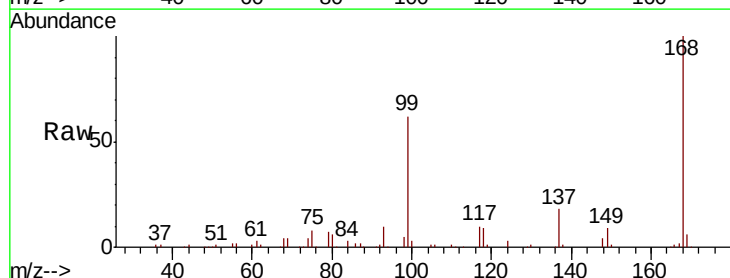


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

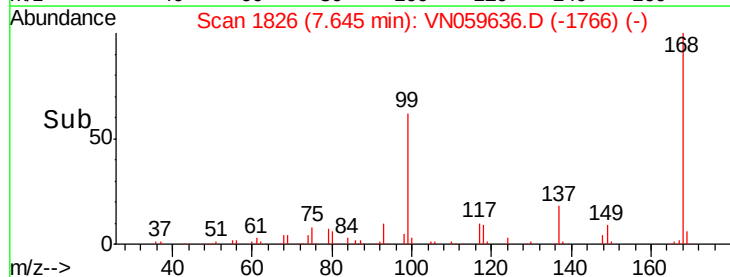
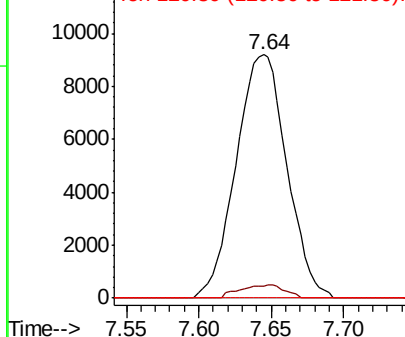


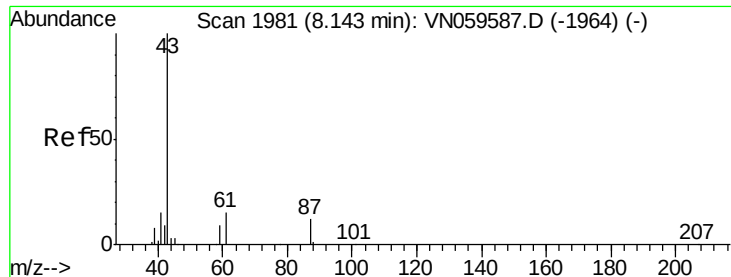
#38
Carbon Tetrachloride
Concen: 5.536 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Tgt Ion: 117 Resp: 22332
Ion Ratio Lower Upper
117 100
119 5.1 76.5 114.7#
121 0.0 25.1 37.7#



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





#43

Isopropyl Acetate

Concen: 9.518 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN059636.D

Acq: 17 Dec 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

178K-WC1

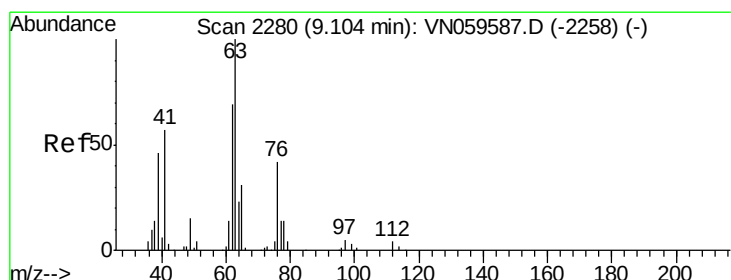
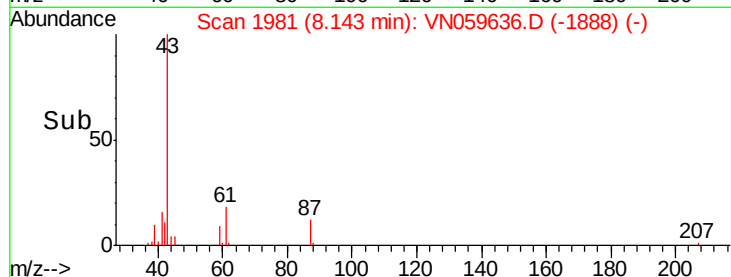
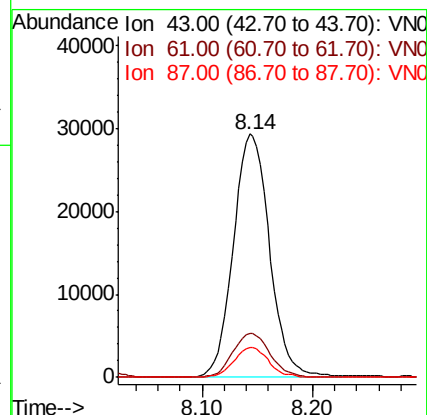
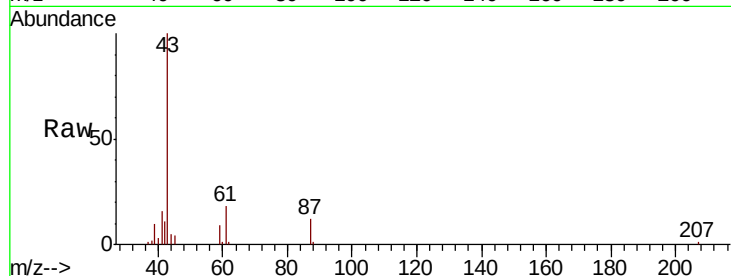
Tot Ion: 43 Resp: 66860

Ion Ratio Lower Upper

43 100

61 18.4 20.2 30.2#

87 11.6 9.5 14.3



#45

1,2-Dichloropropane

Concen: 0.450 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.14 min

Lab File: VN059636.D

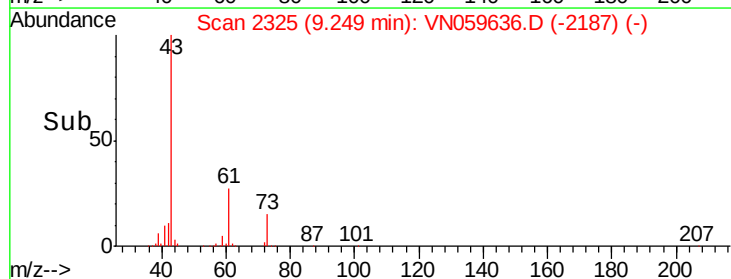
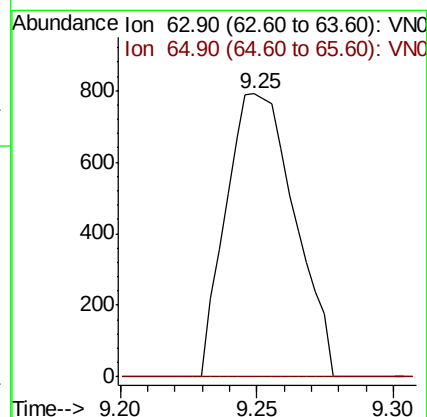
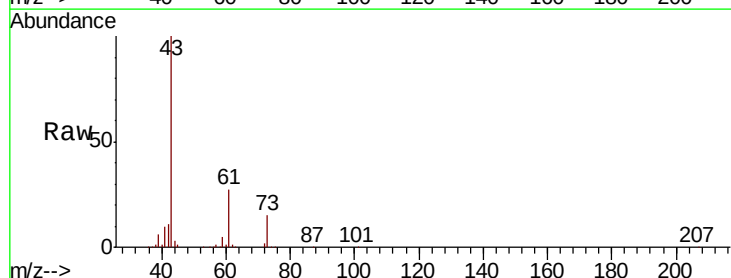
Acq: 17 Dec 2019 19:32

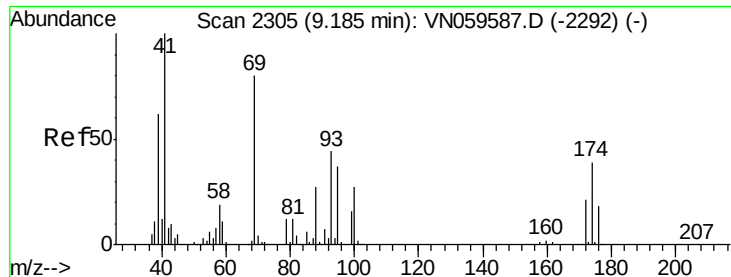
Tgt Ion: 63 Resp: 1381

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#

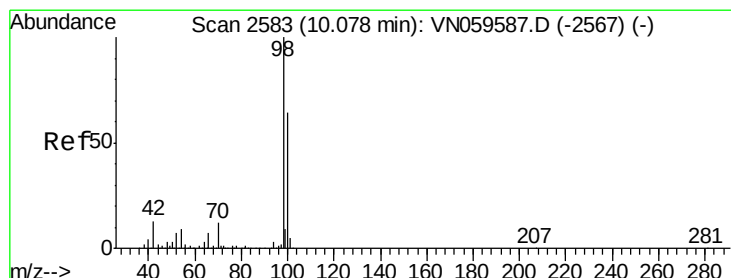
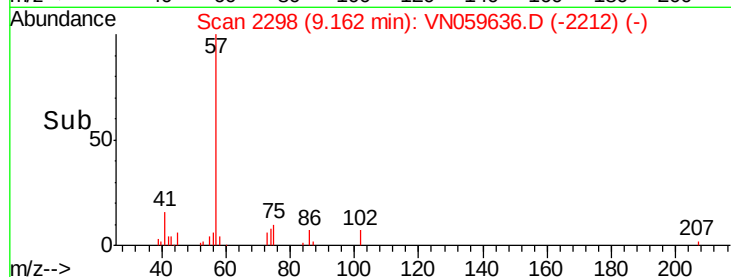
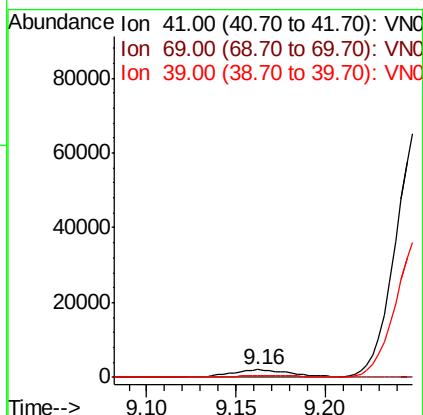
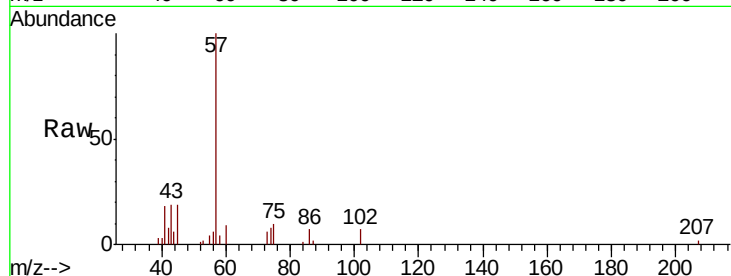




#48
Methvl methacrylate
Concen: 1.497 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

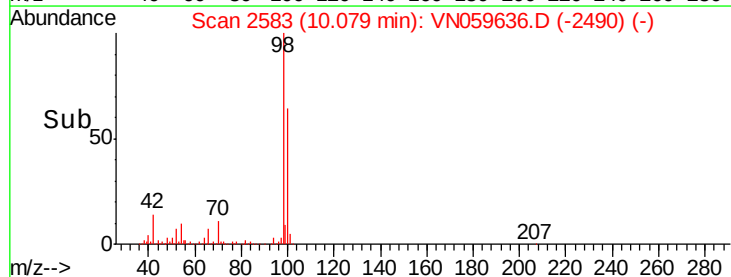
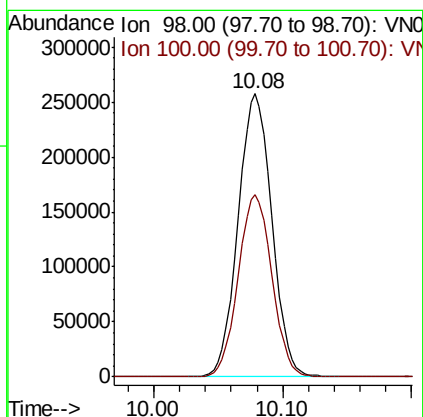
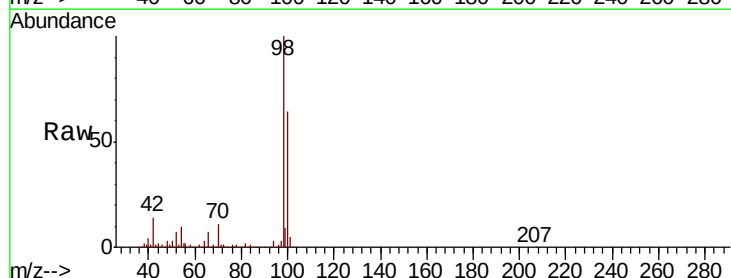
Instrument :
MSVOA_N
ClientSampleId :
178K-WC1

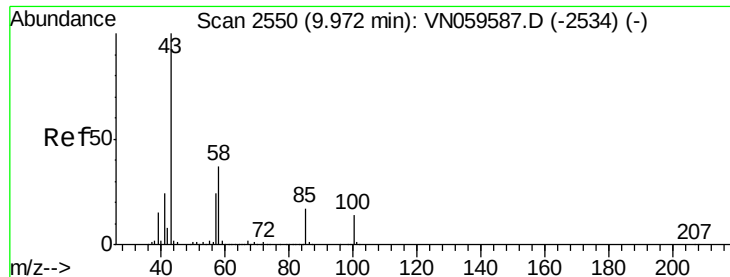
Tot Ion: 41 Resp: 4770
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 50.807 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Tgt Ion: 98 Resp: 469155
Ion Ratio Lower Upper
98 100
100 64.4 51.2 76.8

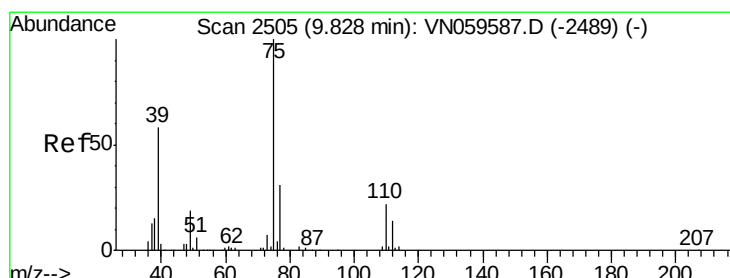
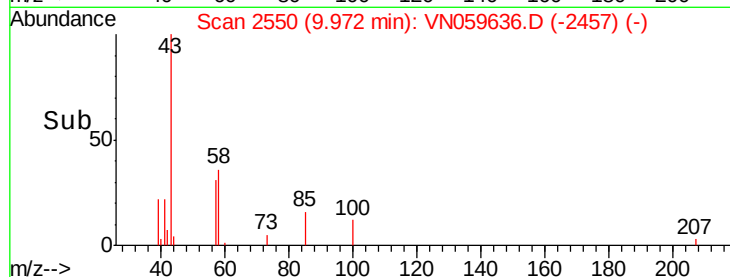
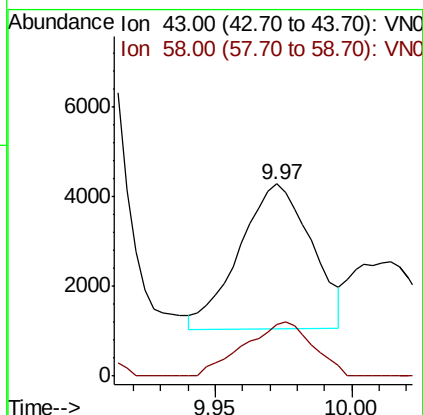
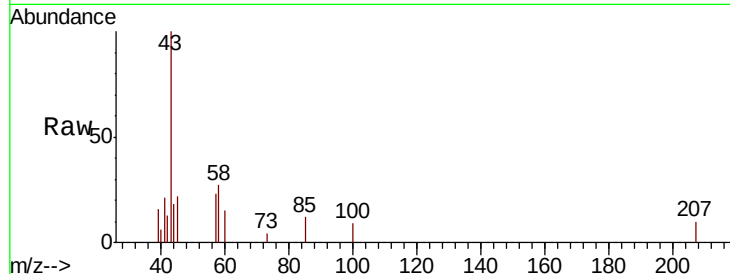




#51
 4-Methyl-2-Pentanone
 Concen: 1.415 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VN059636.D
 Acq: 17 Dec 2019 19:32

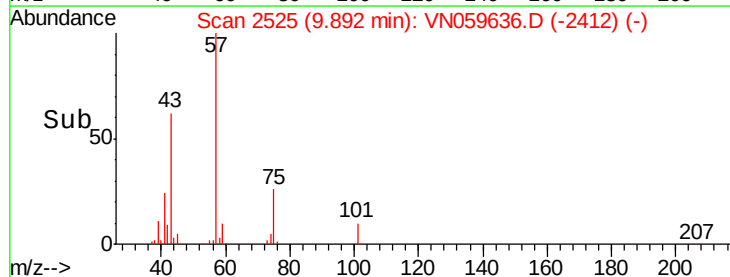
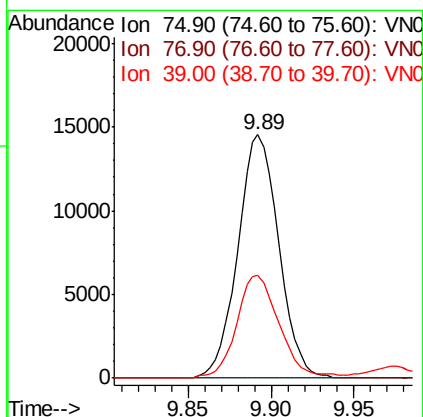
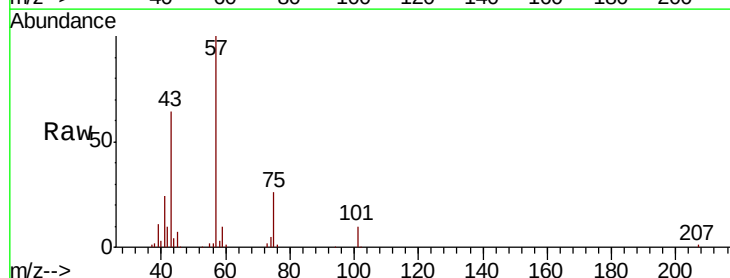
Instrument :
 MSVOA_N
 ClientSampled :
 178K-WC1

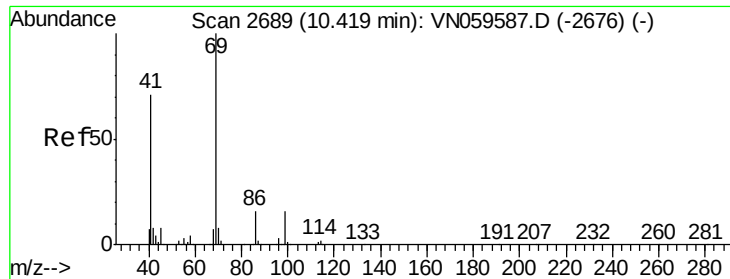
Tot Ion: 43 Resp: 5925
 Ion Ratio Lower Upper
 43 100
 58 35.5 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.126 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.06 min
 Lab File: VN059636.D
 Acq: 17 Dec 2019 19:32

Tgt Ion: 75 Resp: 24973
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 42.2 46.1 69.1#





#56

Ethyl methacrylate

Concen: 0.277 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN059636.D

Acq: 17 Dec 2019 19:32

Instrument :

MSVOA_N

ClientSampled :

178K-WC1

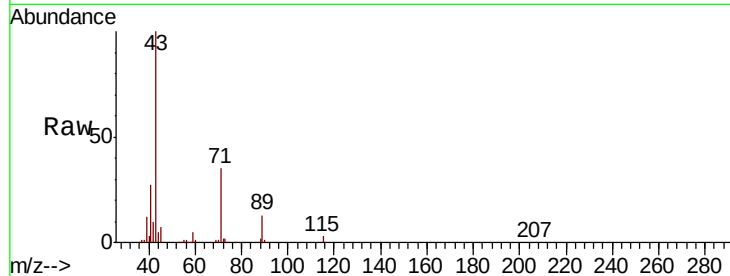
Tot Ion: 69 Resp: 1127

Ion Ratio Lower Upper

69 100

41 5127.2 57.1 85.7#

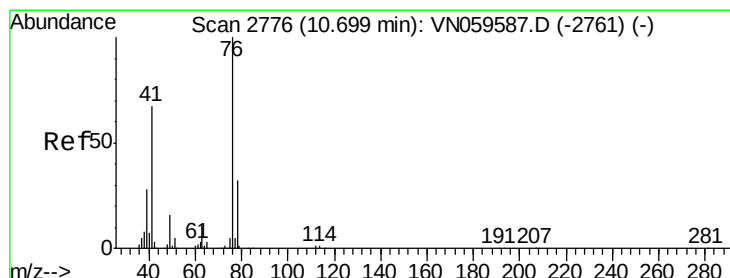
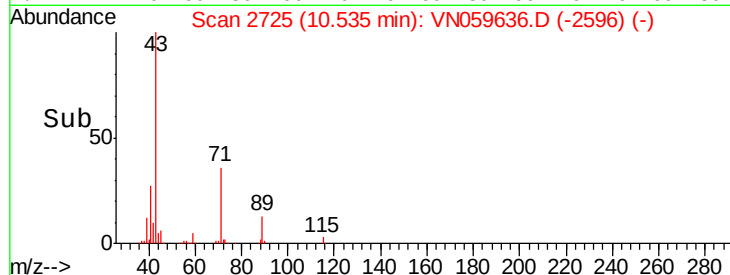
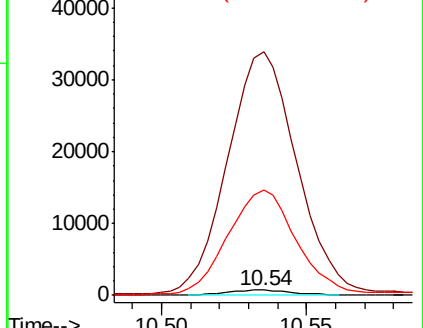
39 2192.8 34.7 52.1#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.039 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN059636.D

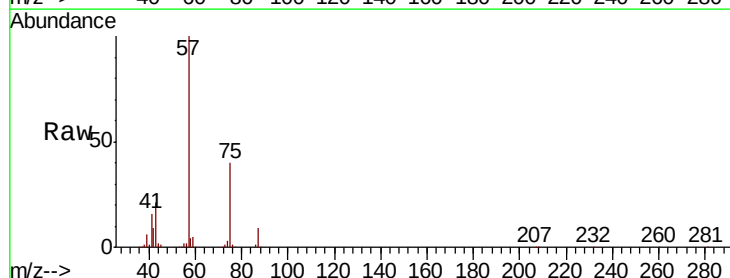
Acq: 17 Dec 2019 19:32

Tgt Ion: 76 Resp: 4956

Ion Ratio Lower Upper

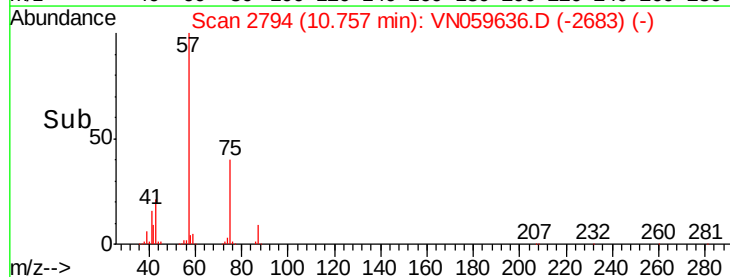
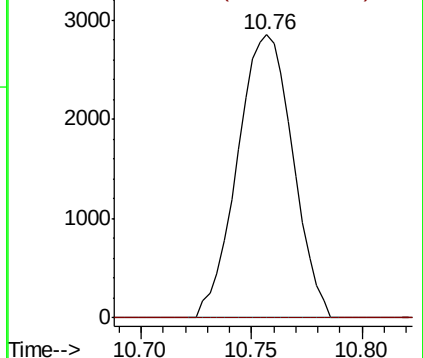
76 100

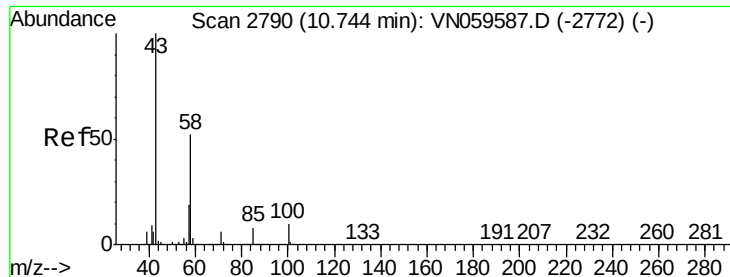
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

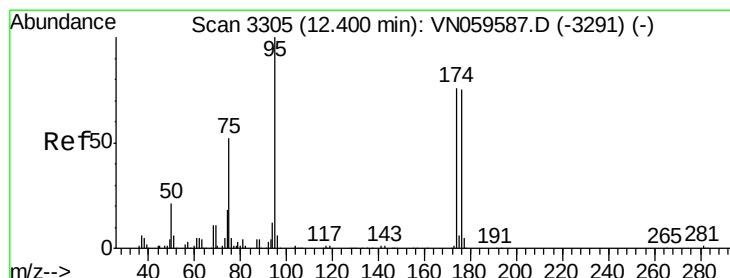
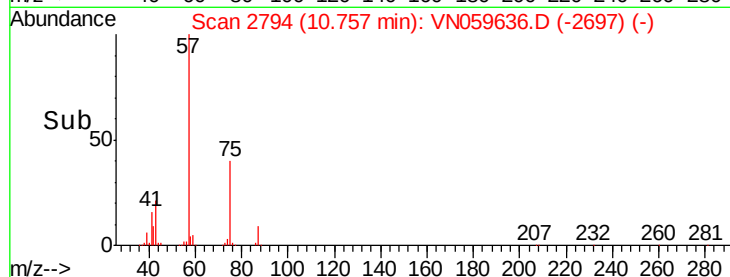
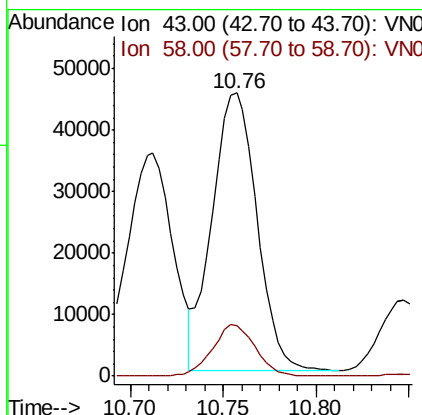
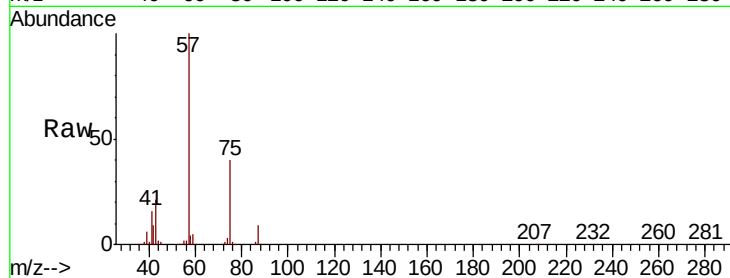




#59
2-Hexanone
Concen: 22.821 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

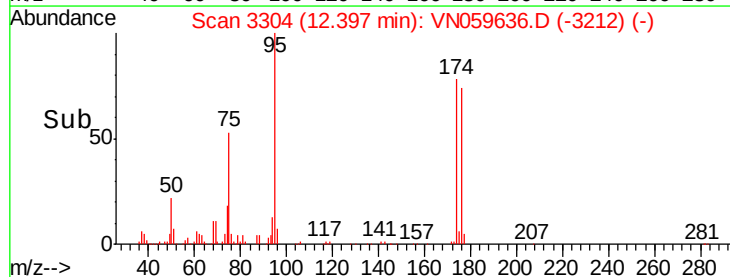
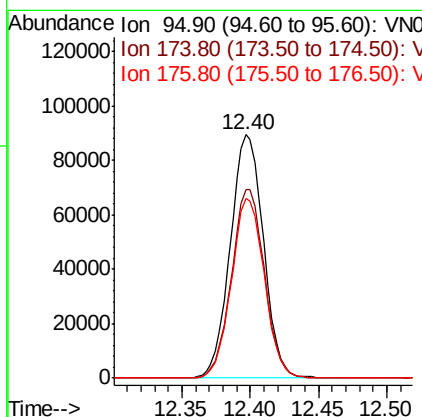
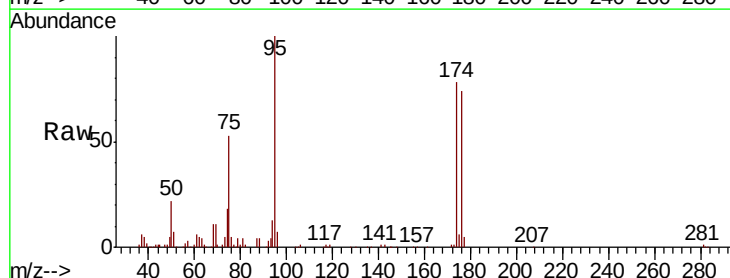
Instrument :
MSVOA_N
ClientSampled :
178K-WC1

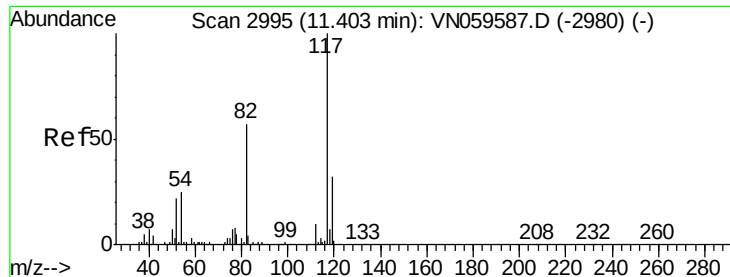
Tot Ion: 43 Resp: 75327
Ion Ratio Lower Upper
43 100
58 17.8 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 44.762 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Tgt Ion: 95 Resp: 150821
Ion Ratio Lower Upper
95 100
174 77.1 0.0 151.4
176 73.5 0.0 146.0

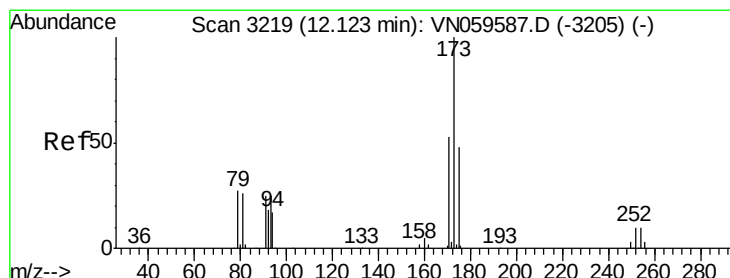
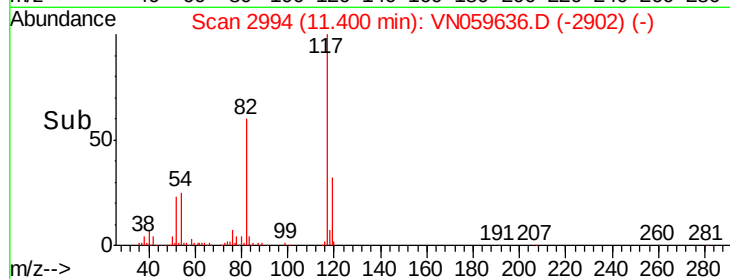
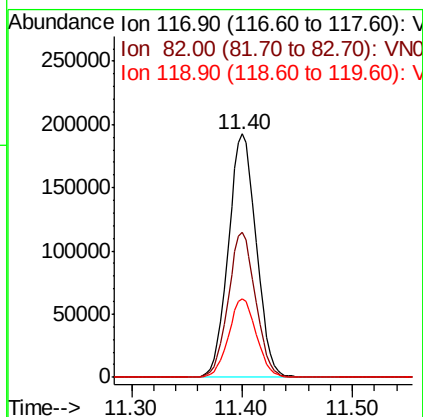
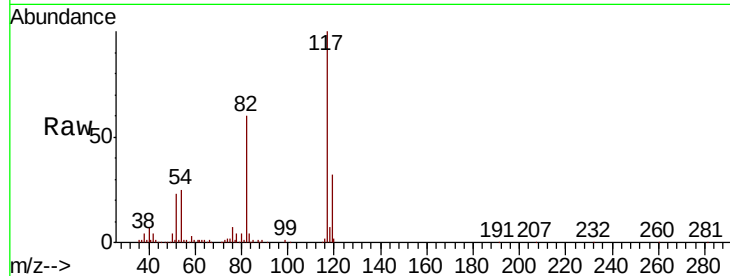




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

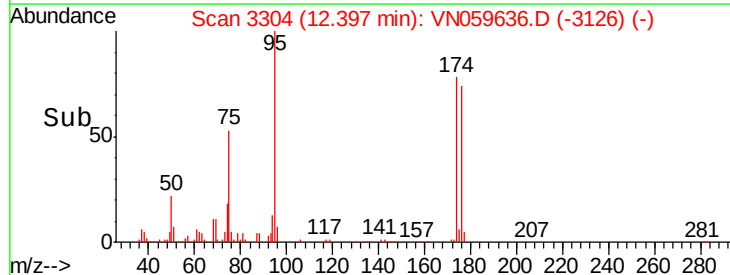
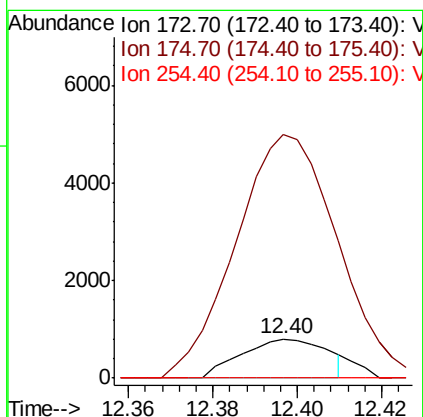
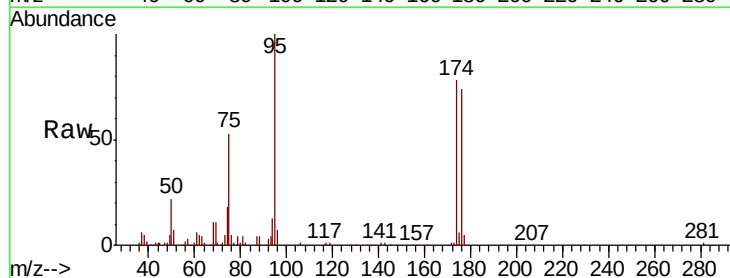
Instrument :
MSVOA_N
ClientSampled :
178K-WC1

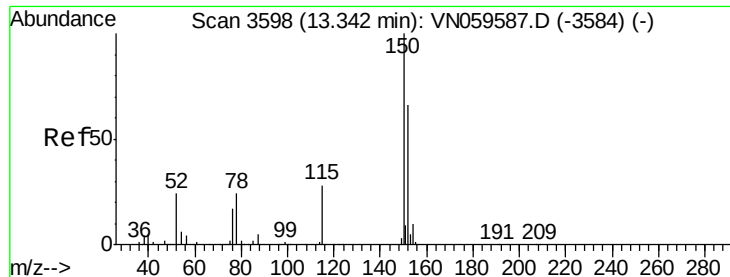
Tot Ion:117 Resp: 336639
Ion Ratio Lower Upper
117 100
82 59.6 45.9 68.9
119 32.3 25.5 38.3



#71
Bromoform
Concen: 0.540 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Tgt Ion:173 Resp: 1124
Ion Ratio Lower Upper
173 100
175 661.7 23.8 71.4#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN059636.D

Acq: 17 Dec 2019 19:32

Instrument :

MSVOA_N

ClientSampleId :

178K-WC1

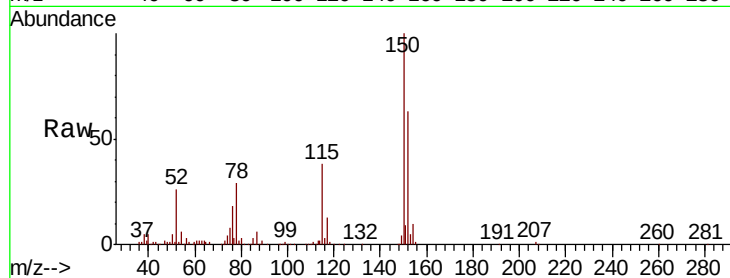
Tot Ion:152 Resp: 127488

Ion Ratio Lower Upper

152 100

115 61.6 30.3 90.9

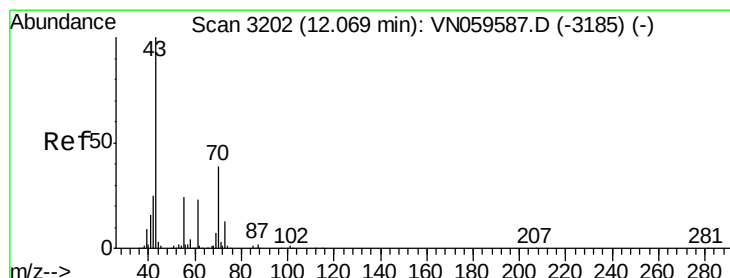
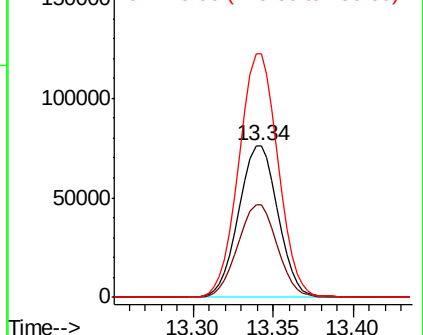
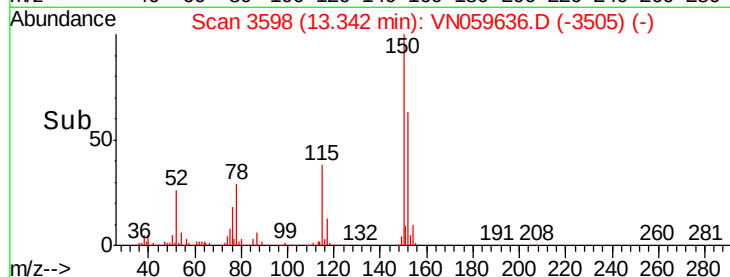
150 160.4 0.0 345.2



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-ethyl acetate

Concen: 0.688 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN059636.D

Acq: 17 Dec 2019 19:32

Tgt Ion: 43 Resp: 3158

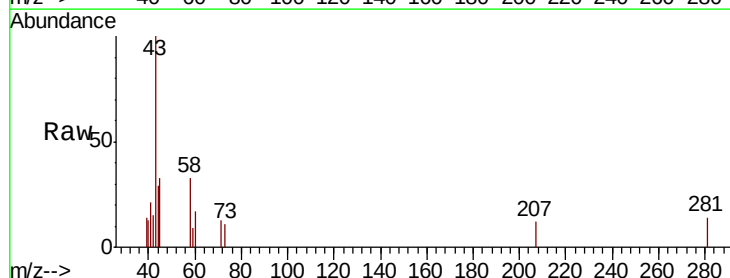
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

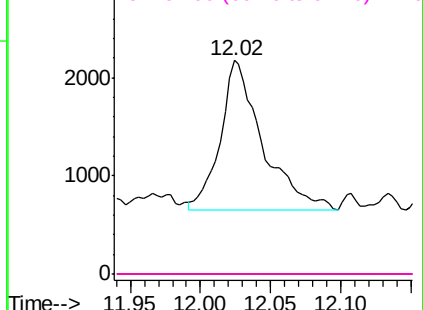
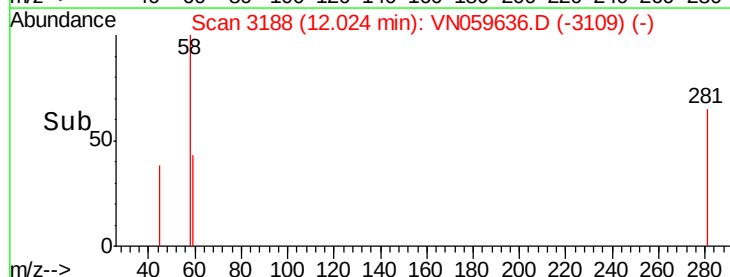


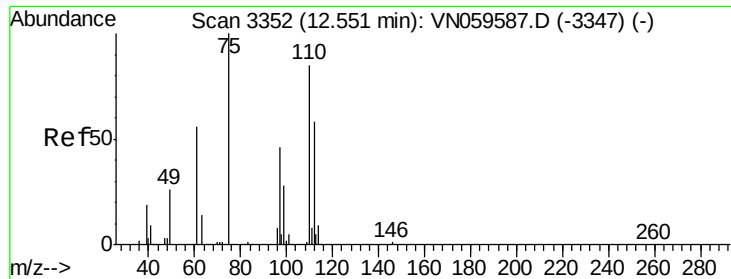
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

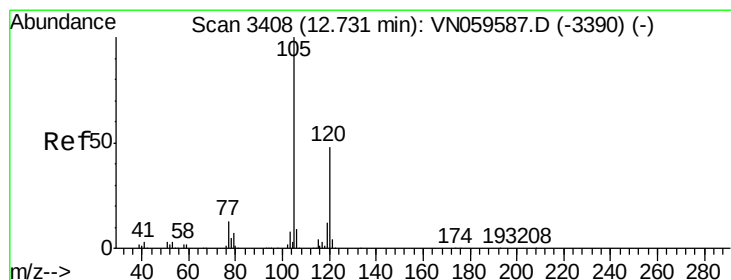
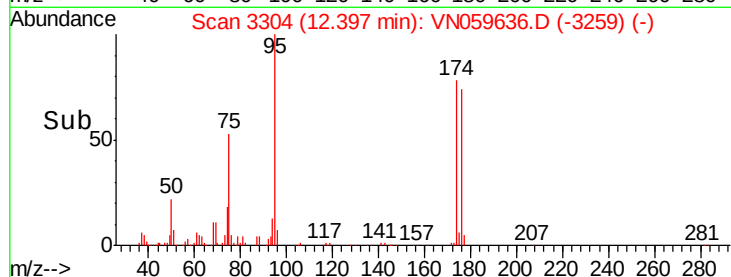
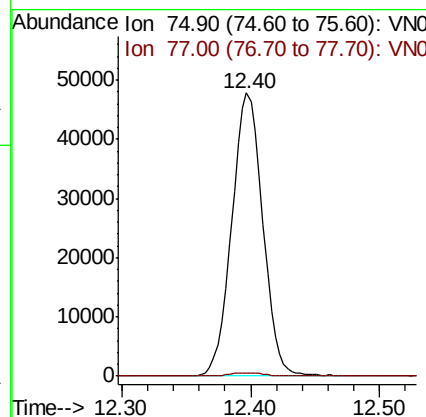
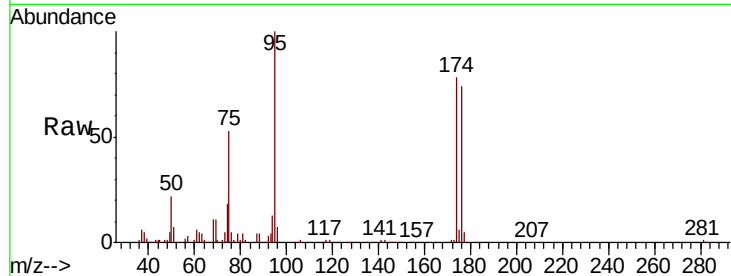




#76
 1,2,3-Trichloropropane
 Concen: 25.229 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN059636.D
 Acq: 17 Dec 2019 19:32

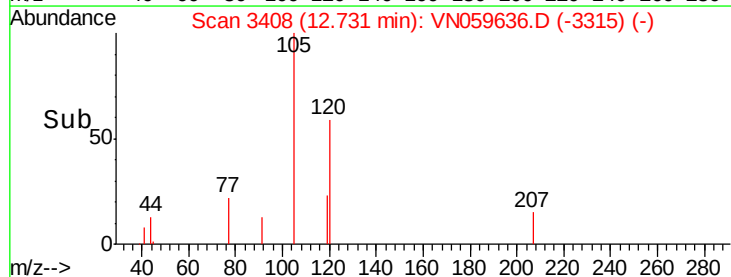
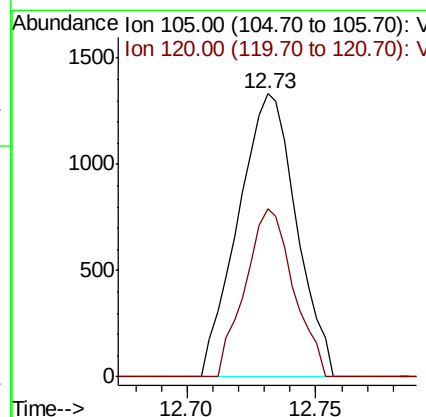
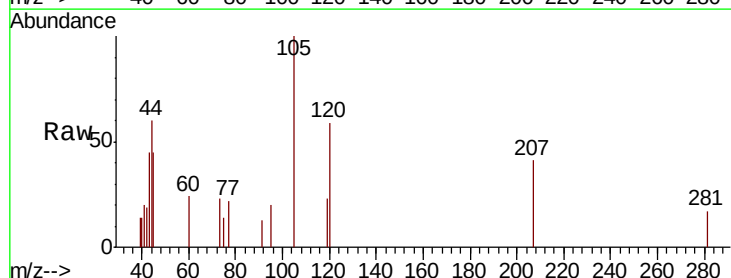
Instrument :
 MSVOA_N
 ClientSampled :
 178K-WC1

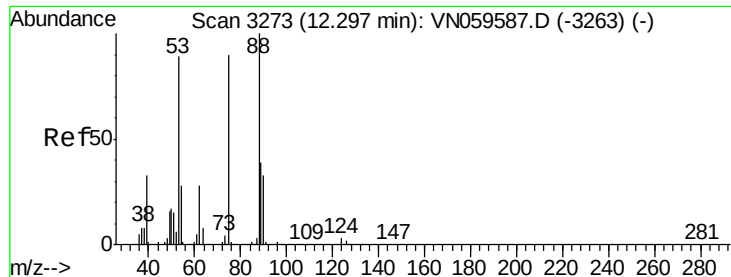
Tot Ion: 75 Resp: 79623
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.248 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN059636.D
 Acq: 17 Dec 2019 19:32

Tgt Ion: 105 Resp: 2097
 Ion Ratio Lower Upper
 105 100
 120 49.1 24.1 72.4

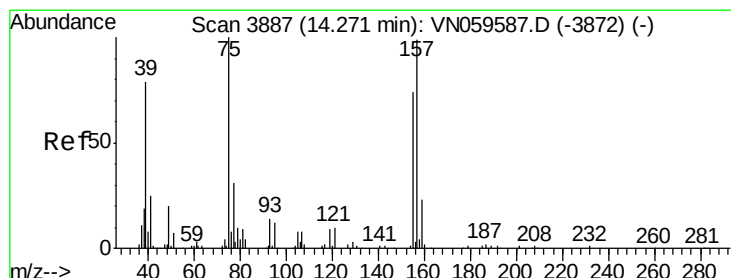
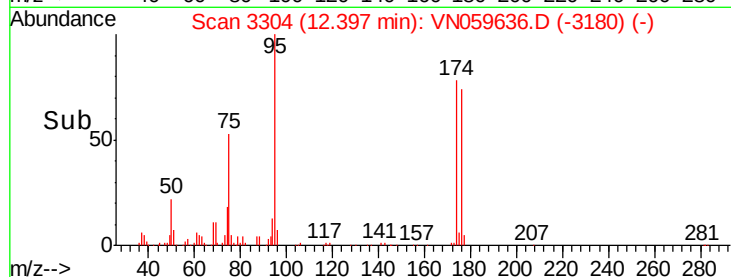
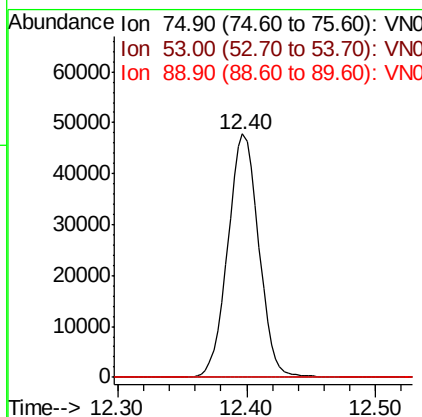
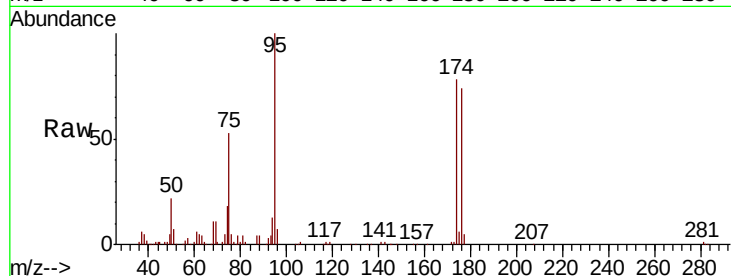




#81
trans-1,4-Dichloro-2-butene
Concen: 62.312 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Instrument :
MSVOA_N
ClientSampleId :
178K-WC1

Tot Ion: 75 Resp: 79623
Ion Ratio Lower Upper
75 100
53 0.0 78.1 117.1#
89 0.0 35.4 53.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.927 ug/l
RT: 14.27 min Scan# 3887
Delta R.T. 0.00 min
Lab File: VN059636.D
Acq: 17 Dec 2019 19:32

Tgt Ion: 75 Resp: 279
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#

