

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060682.D
 Acq On : 24 Mar 2020 19:01
 Operator : JC/MD
 Sample : L2011-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:57:57 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	194465	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	325896	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	303443	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143631	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	127574	47.79	ug/l	0.00
Spiked Amount 50.000			Recovery =	95.58%		
35) Dibromofluoromethane	7.56	113	99177	50.33	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.66%		
50) Toluene-d8	10.08	98	400577	49.77	ug/l	0.00
Spiked Amount 50.000			Recovery =	99.54%		
62) 4-Bromofluorobenzene	12.40	95	149923	50.82	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.64%		

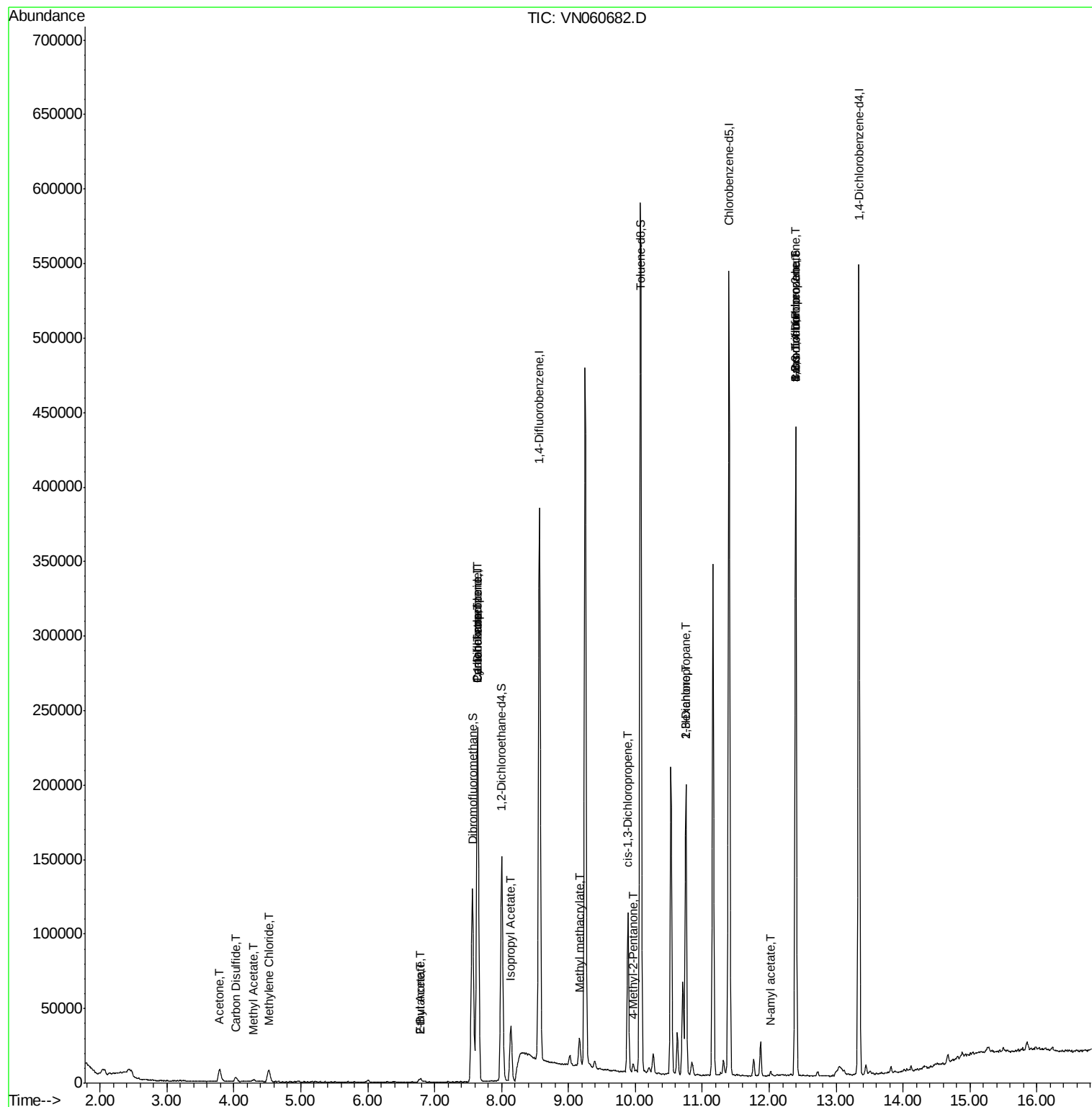
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	16169	17.099	ug/l	93
17) Carbon Disulfide	4.03	76	2418	0.378	ug/l #	75
18) Methyl Acetate	4.29	43	2803	1.053	ug/l #	59
20) Methylene Chloride	4.53	84	6403	2.753	ug/l	97
25) 2-Butanone	6.80	43	3343	2.185	ug/l	91
31) Cyclohexane	7.64	56	3918	0.911	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	14720	4.665	ug/l #	50
37) Ethyl Acetate	6.80	43	3343	0.980	ug/l #	70
38) Carbon Tetrachloride	7.64	117	18292	6.468	ug/l #	16
43) Isopropyl Acetate	8.14	43	44581	7.928	ug/l #	91
48) Methyl methacrylate	9.16	41	3108	1.241	ug/l #	29
51) 4-Methyl-2-Pentanone	9.97	43	3685	1.152	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	19107	4.801	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	2051	0.534	ug/l #	42
59) 2-Hexanone	10.75	43	27942	12.122	ug/l #	53
71) Bromoform	12.40	173	806	2.111	ug/l #	1
74) N-amyl acetate	12.02	43	2077	0.417	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	76410	24.654	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	76410	63.319	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.48	75	29	Below Cal	#	3

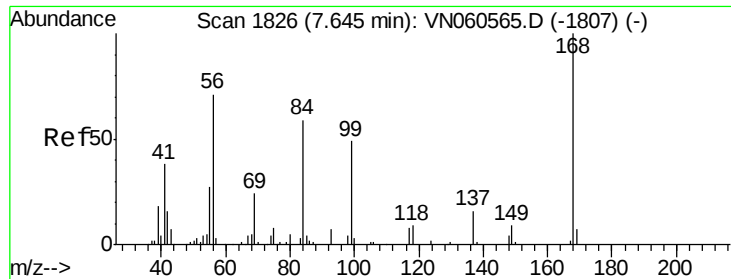
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

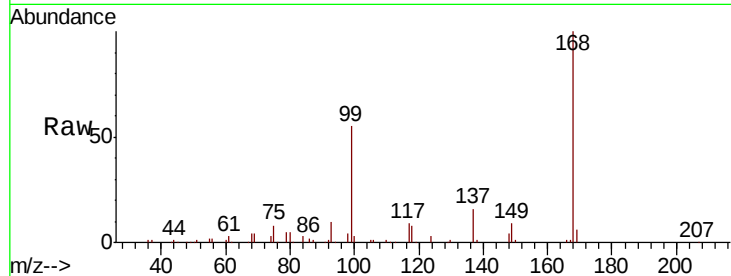
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 194465

Ion Ratio Lower Upper

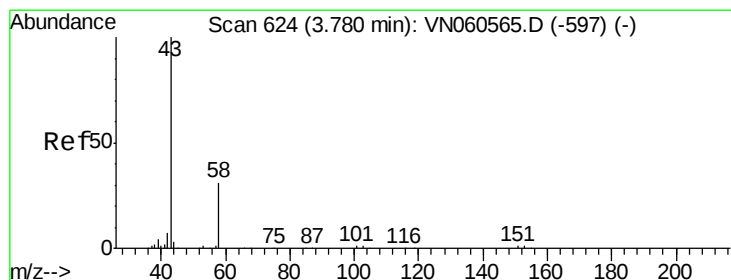
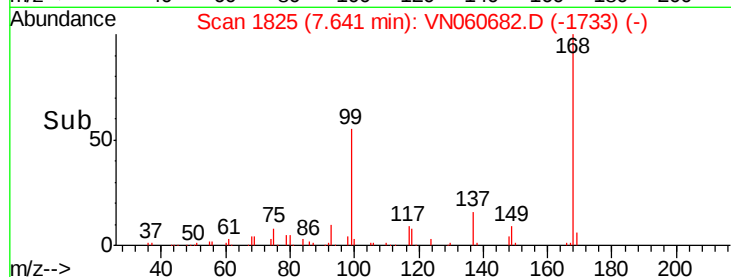
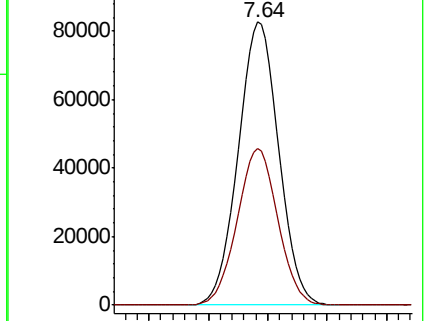
168 100

99 55.3 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 17.099 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060682.D

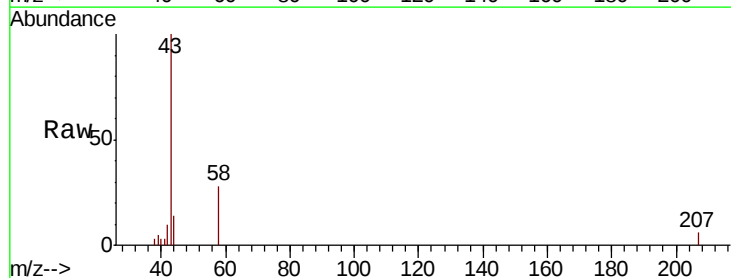
Acq: 24 Mar 2020 19:01

Tgt Ion: 43 Resp: 16169

Ion Ratio Lower Upper

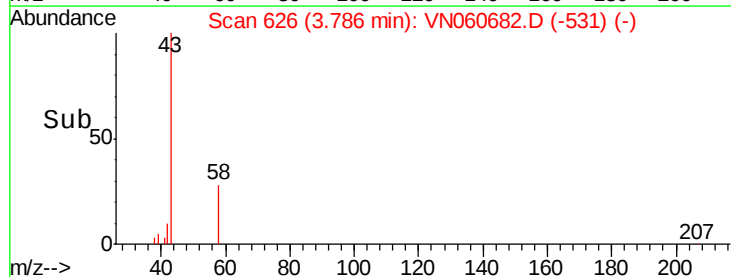
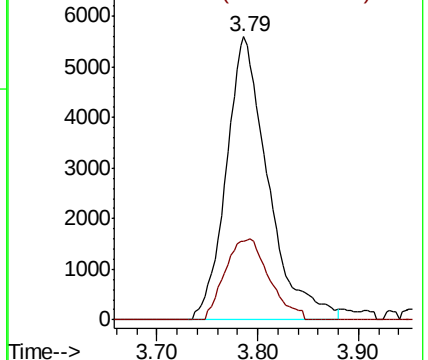
43 100

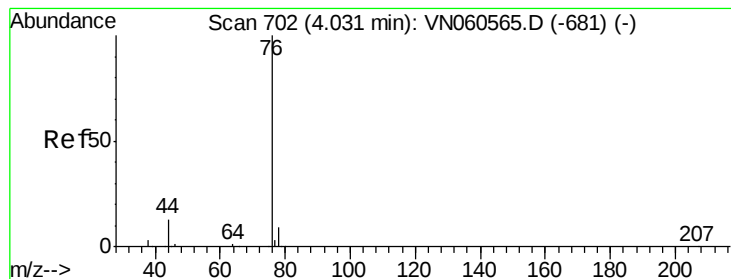
58 27.8 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN





#17

Carbon Disulfide

Concen: 0.378 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

Instrument :

MSVOA_N

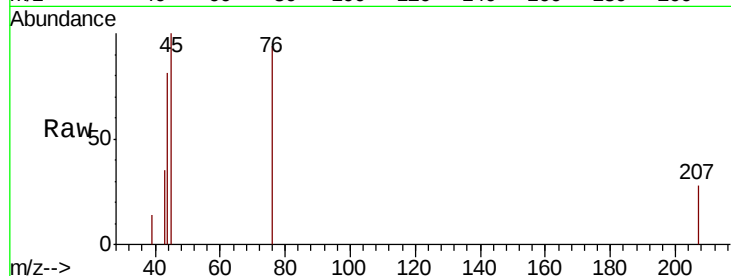
ClientSampled :

Tot Ion: 76 Resp: 2418

Ion Ratio Lower Upper

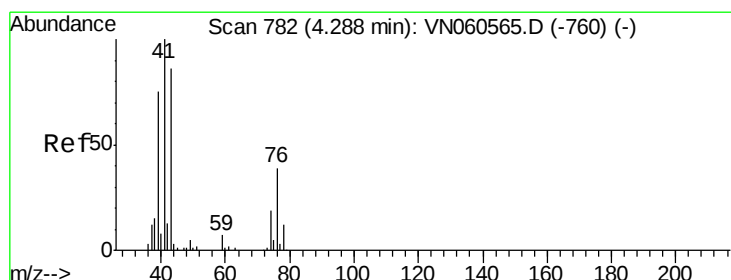
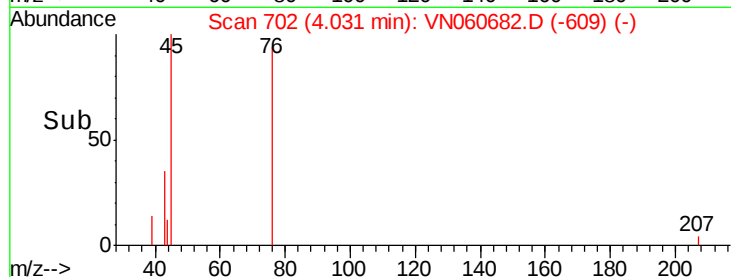
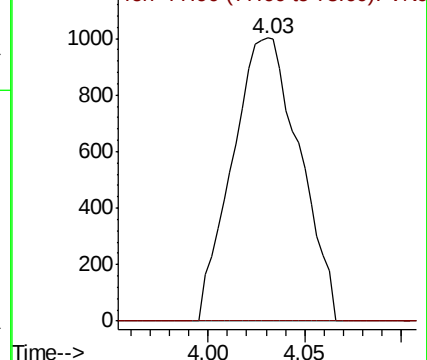
76 100

78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 1.053 ug/l

RT: 4.29 min Scan# 782

Delta R.T. 0.00 min

Lab File: VN060682.D

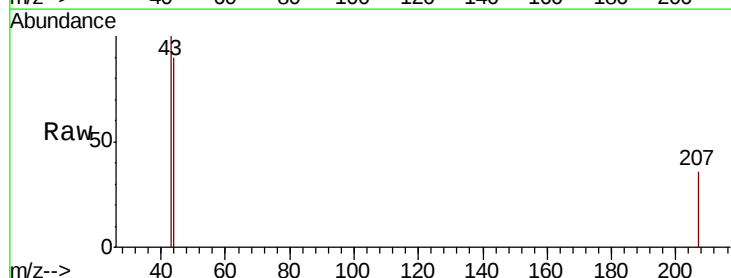
Acq: 24 Mar 2020 19:01

Tgt Ion: 43 Resp: 2803

Ion Ratio Lower Upper

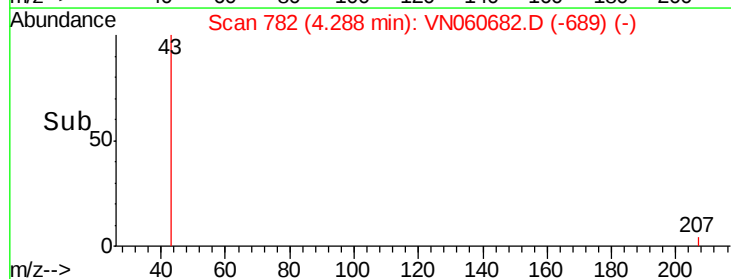
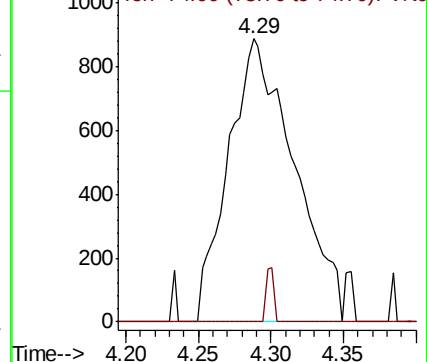
43 100

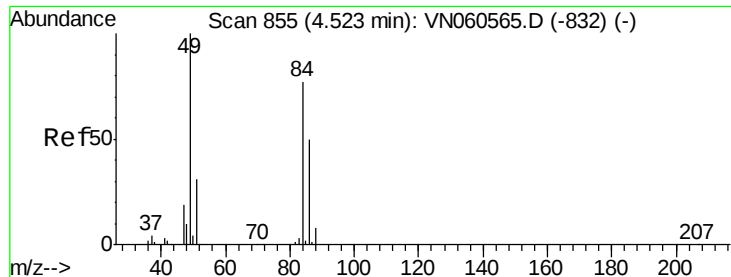
74 2.3 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

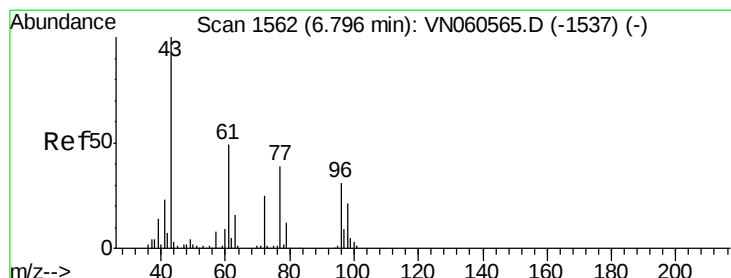
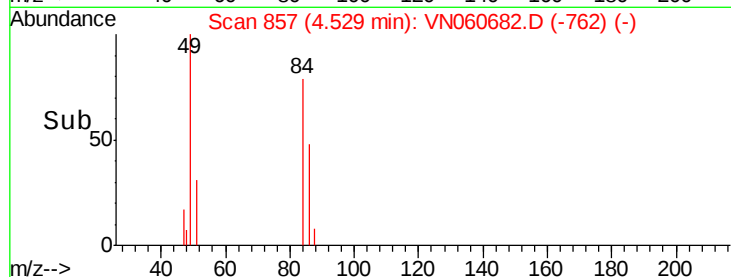
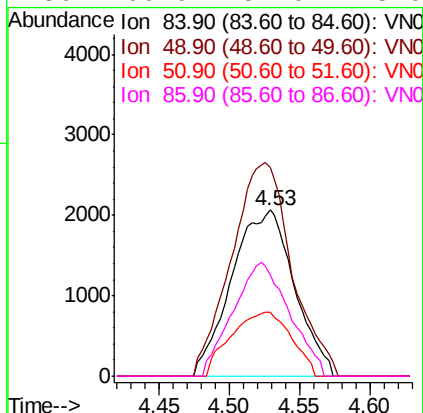
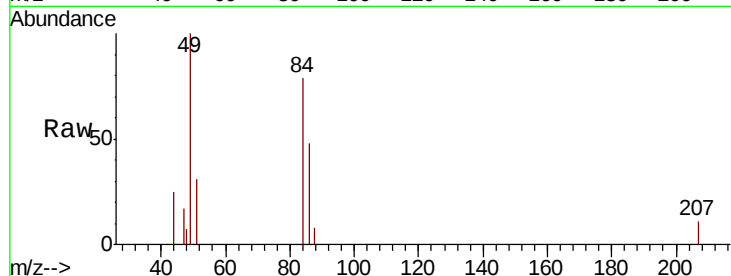




#20
Methvlene Chloride
Concen: 2.753 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

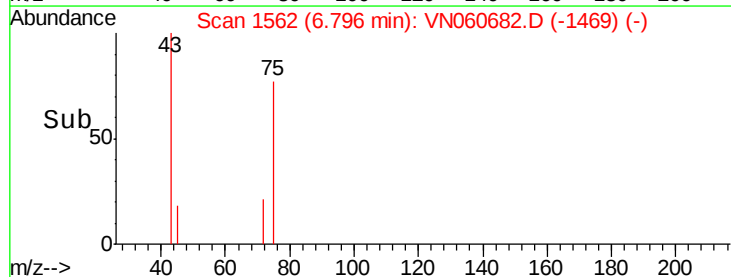
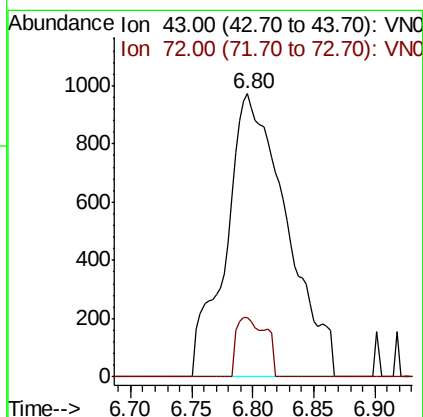
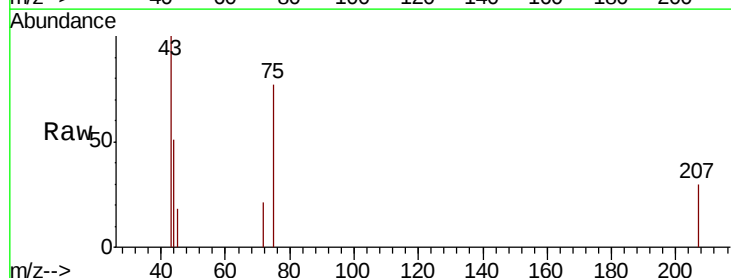
Instrument :
MSVOA_N
ClientSampled :

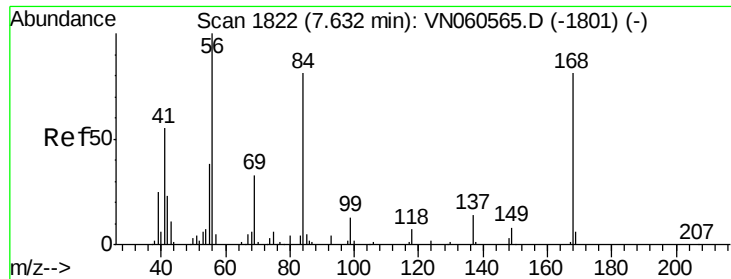
Tot Ion: 84 Resp: 6403
Ion Ratio Lower Upper
84 100
49 125.9 103.3 154.9
51 38.5 31.6 47.4
86 60.9 52.0 78.0



#25
2-Butanone
Concen: 2.185 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.00 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

Tgt Ion: 43 Resp: 3343
Ion Ratio Lower Upper
43 100
72 20.9 20.4 30.6

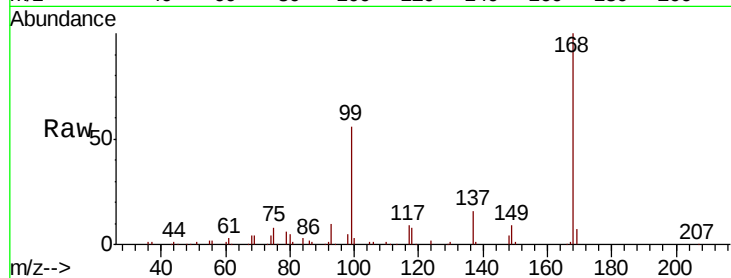




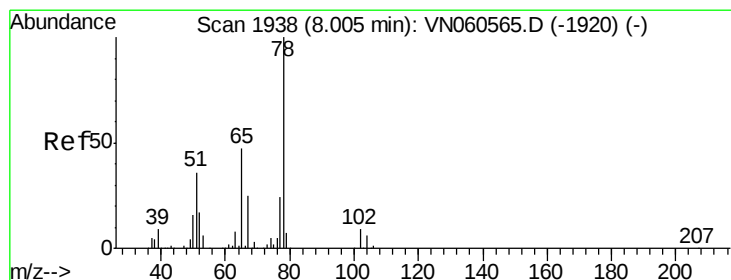
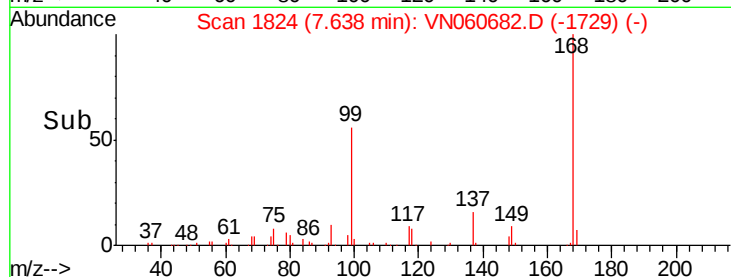
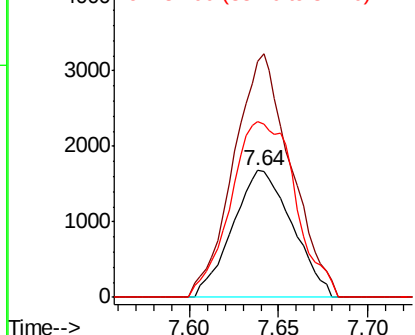
#31
Cyclohexane
Concen: 0.911 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3918
Ion Ratio Lower Upper
56 100
69 185.3 26.6 40.0#
84 138.3 64.3 96.5#

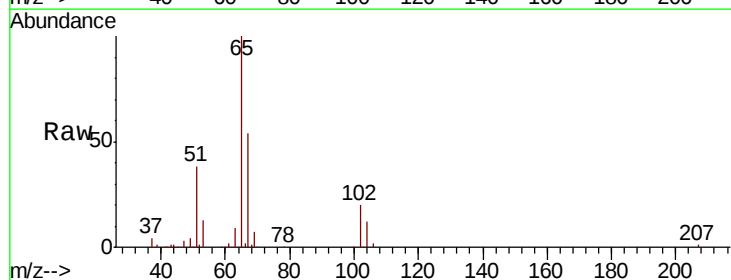


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

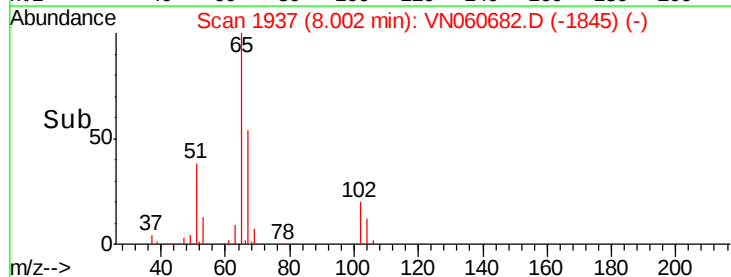
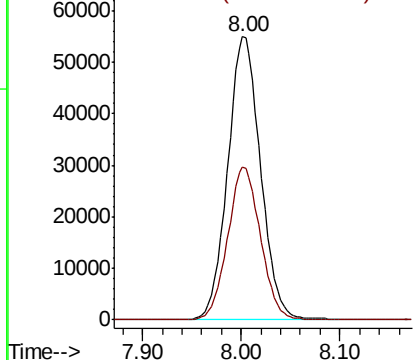


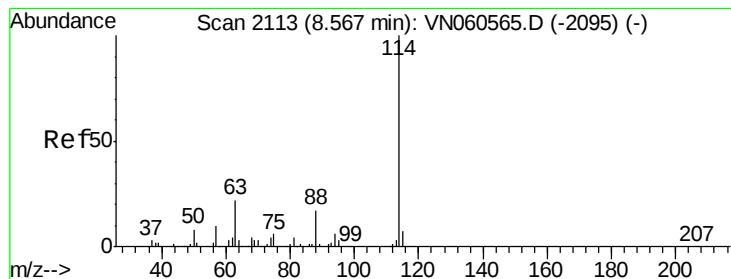
#33
1,2-Dichloroethane-d4
Concen: 47.788 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

Tgt Ion: 65 Resp: 127574
Ion Ratio Lower Upper
65 100
67 53.8 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

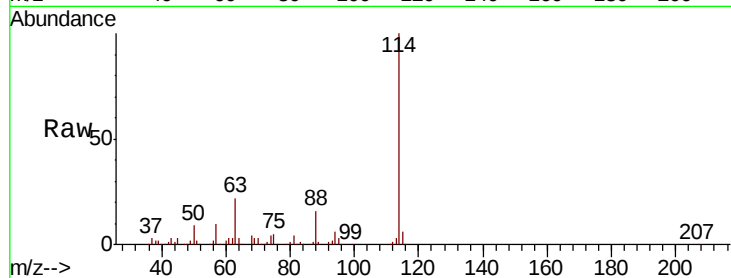
Tot Ion:114 Resp: 325896

Ion Ratio Lower Upper

114 100

63 22.1 0.0 43.8

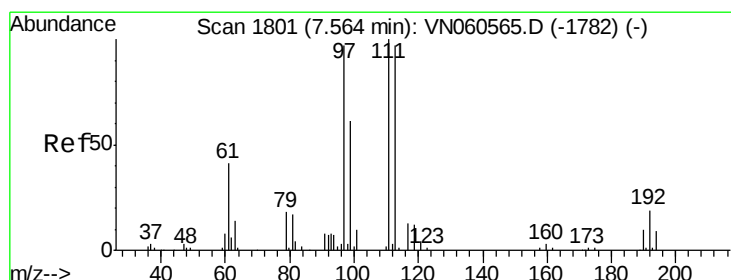
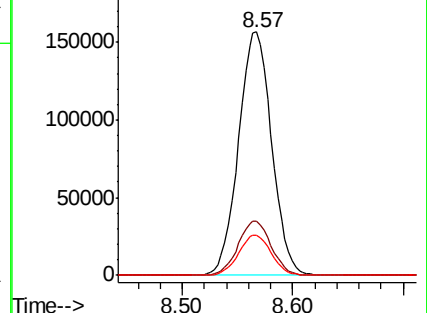
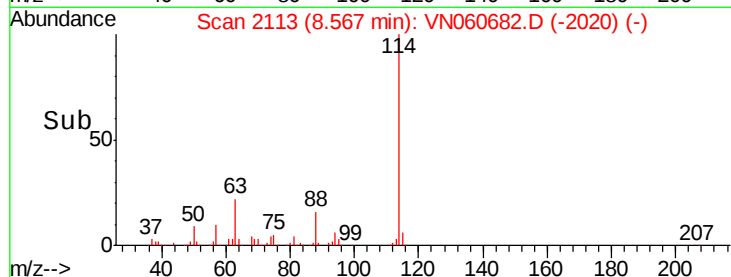
88 16.4 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 50.329 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

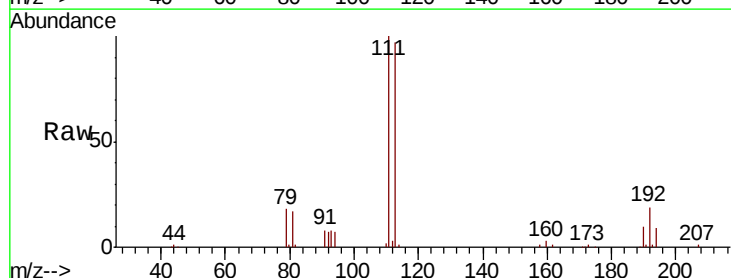
Tgt Ion:113 Resp: 99177

Ion Ratio Lower Upper

113 100

111 103.4 82.9 124.3

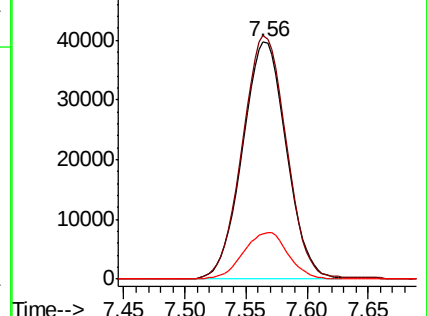
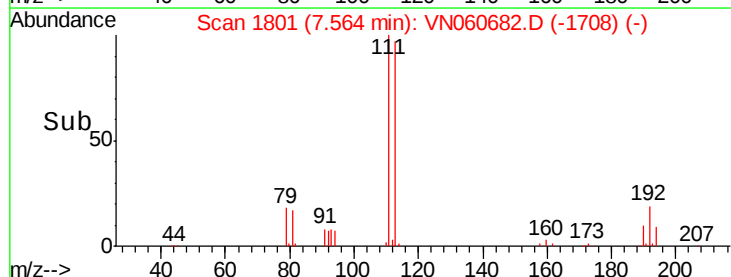
192 20.0 15.8 23.8

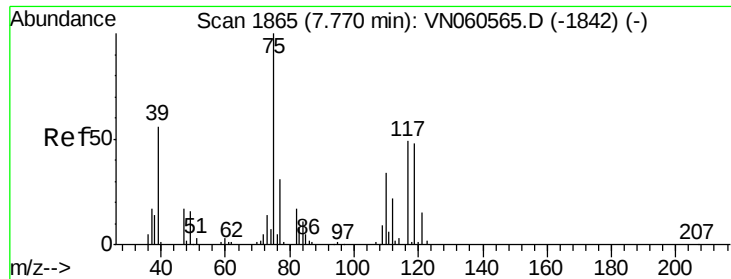


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

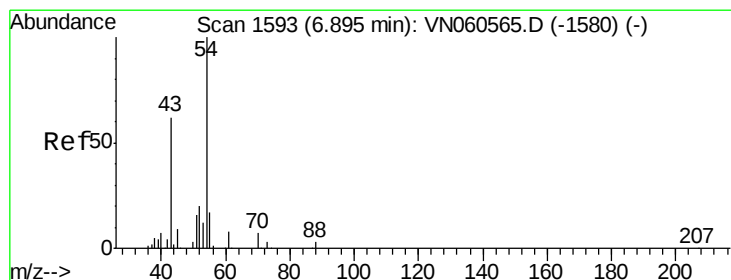
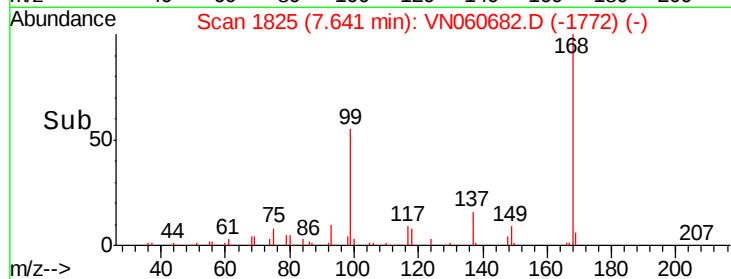
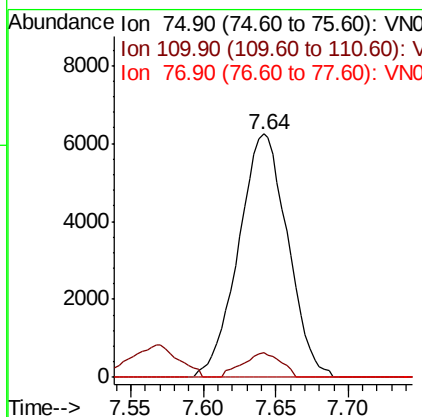
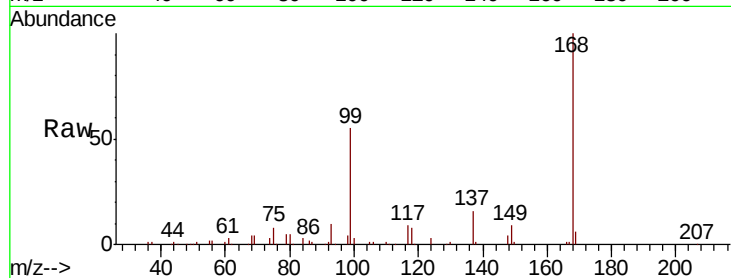




#36
 1,1-Dichloropropene
 Concen: 4.665 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060682.D
 Acq: 24 Mar 2020 19:01

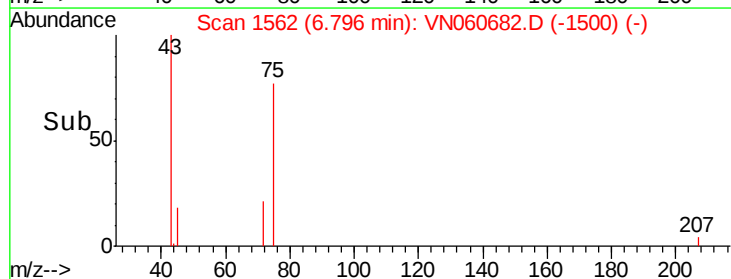
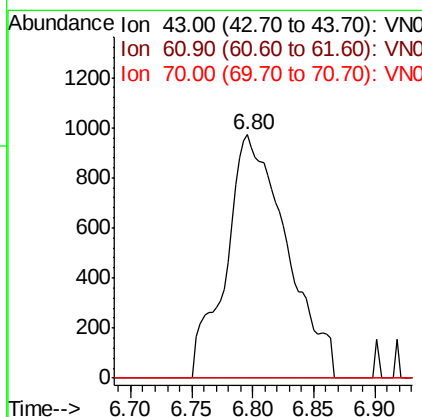
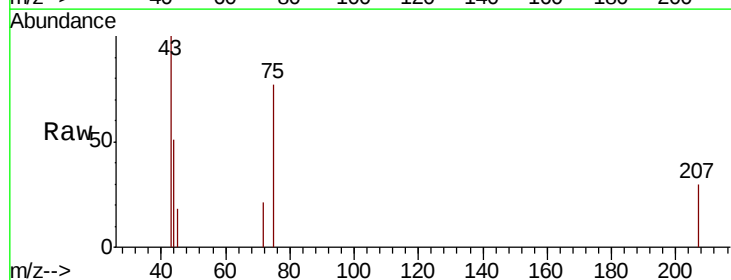
Instrument :
 MSVOA_N
 ClientSampled :

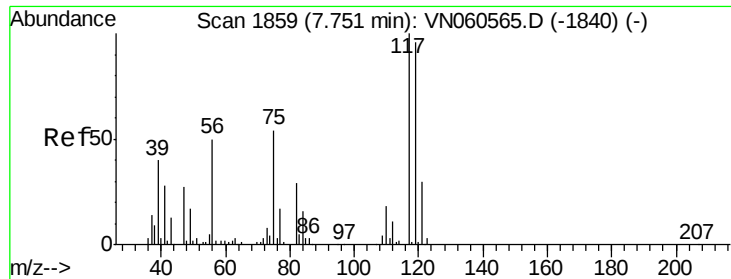
Tot Ion: 75 Resp: 14720
 Ion Ratio Lower Upper
 75 100
 110 7.9 16.9 50.6#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.980 ug/l
 RT: 6.80 min Scan# 1562
 Delta R.T. -0.10 min
 Lab File: VN060682.D
 Acq: 24 Mar 2020 19:01

Tgt Ion: 43 Resp: 3343
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.6 15.8#
 70 0.0 7.9 11.9#





#38

Carbon Tetrachloride

Concen: 6.468 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

Instrument :

MSVOA_N

ClientSampled :

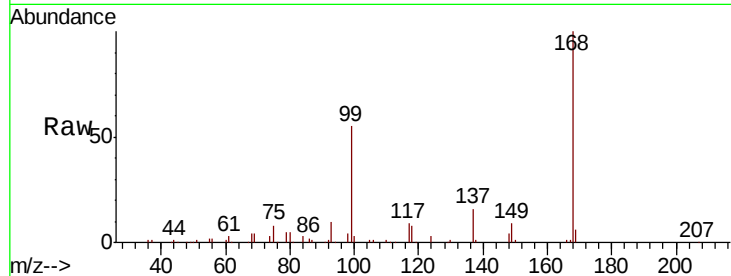
Tot Ion:117 Resp: 18292

Ion Ratio Lower Upper

117 100

119 5.2 76.2 114.2#

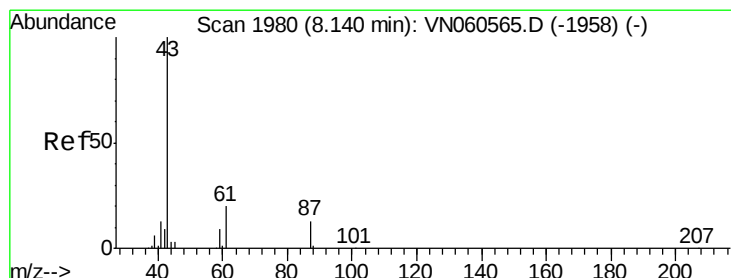
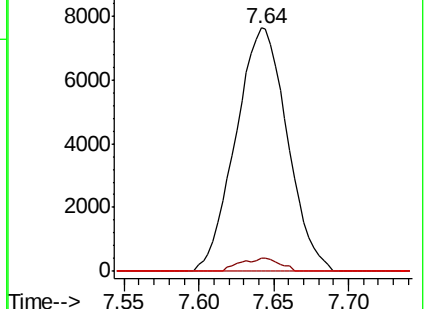
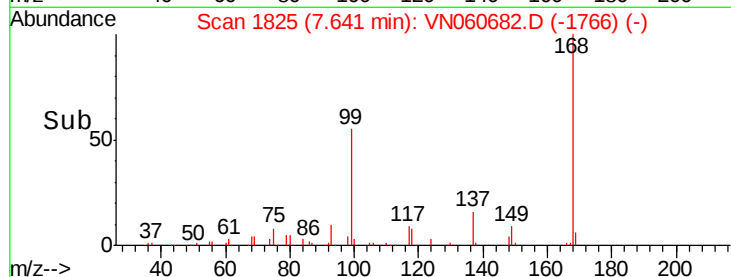
121 0.0 23.7 35.5#



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: 7.928 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

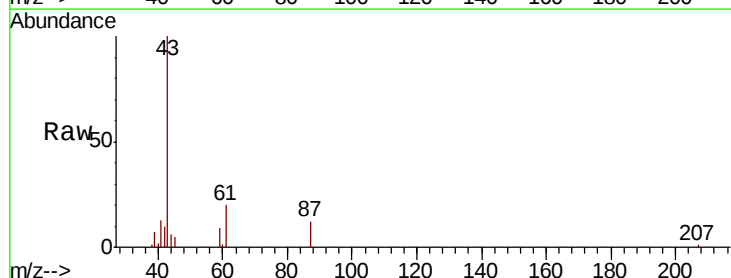
Tgt Ion: 43 Resp: 44581

Ion Ratio Lower Upper

43 100

61 19.4 20.7 31.1#

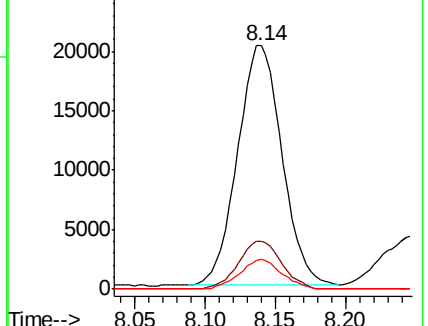
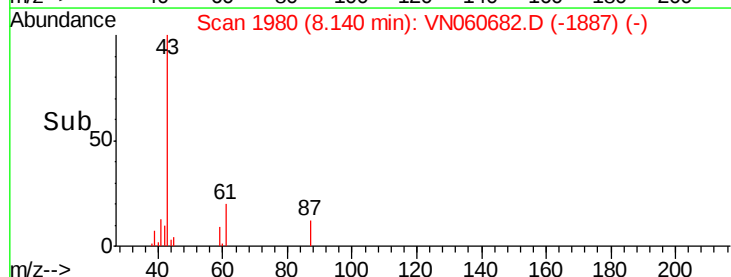
87 11.6 9.8 14.8

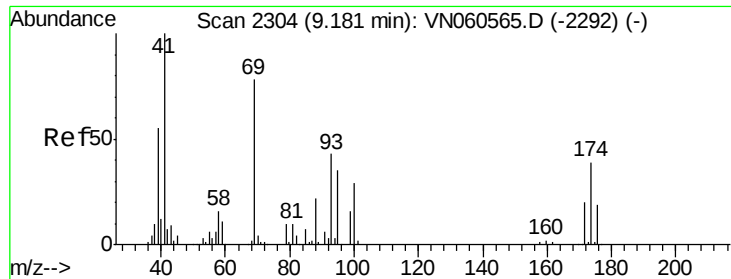


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

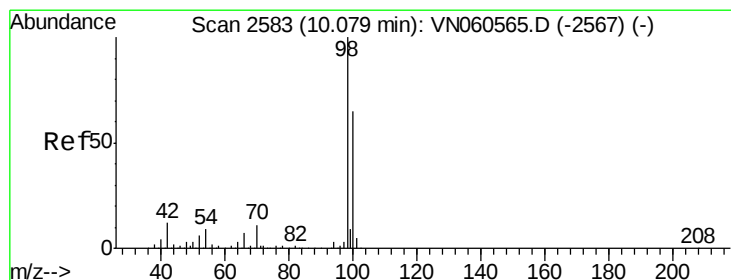
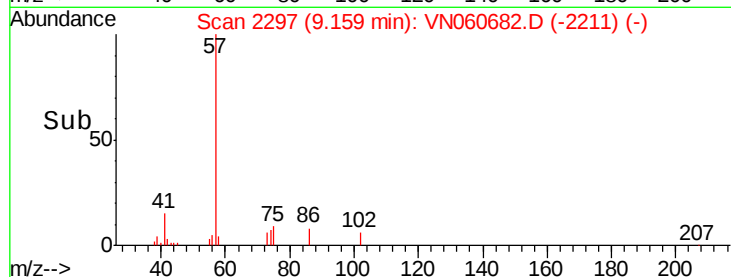
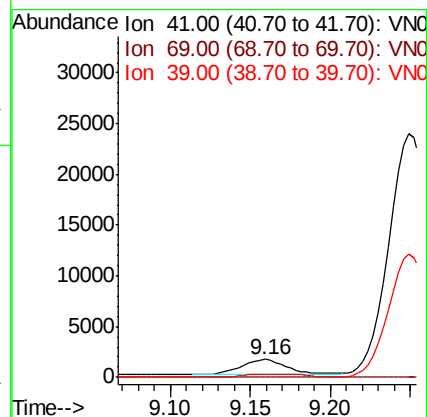
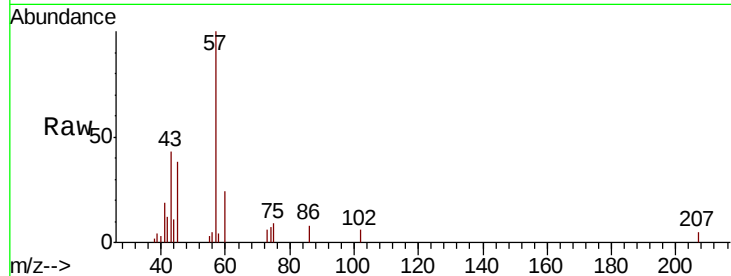




#48
Methvl methacrylate
Concen: 1.241 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

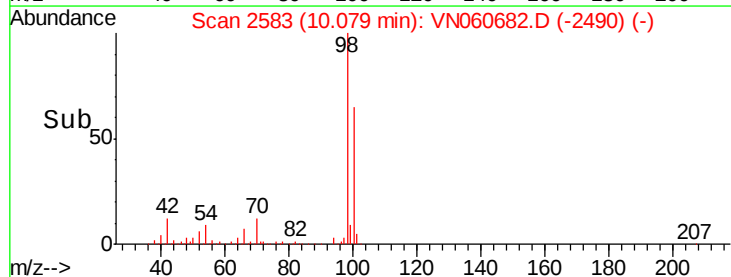
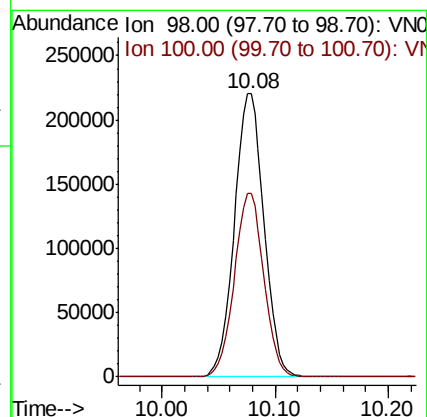
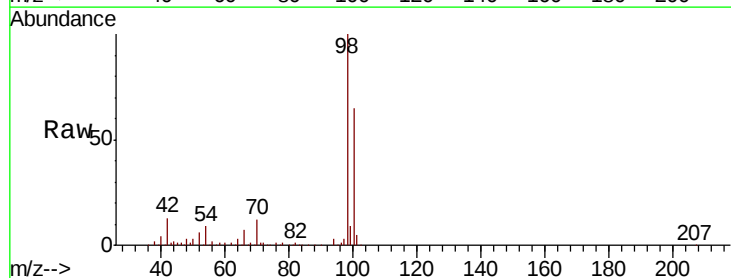
Instrument :
MSVOA_N
ClientSampleId :

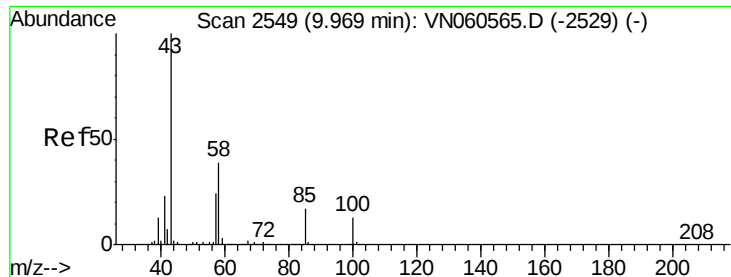
Tot Ion: 41 Resp: 3108
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 25.5 44.0 66.0#



#50
Toluene-d8
Concen: 49.767 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

Tgt Ion: 98 Resp: 400577
Ion Ratio Lower Upper
98 100
100 64.6 51.8 77.8

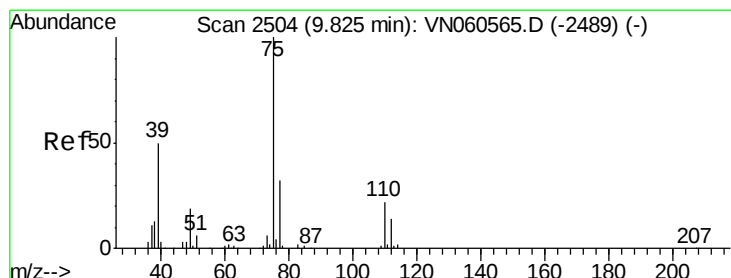
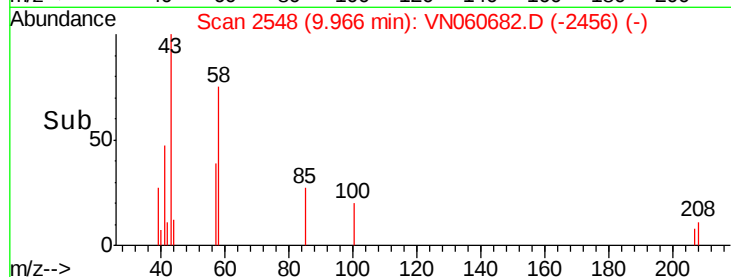
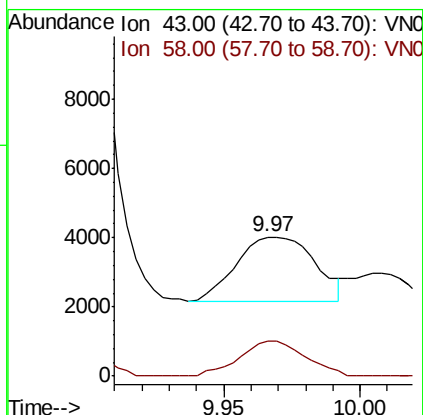
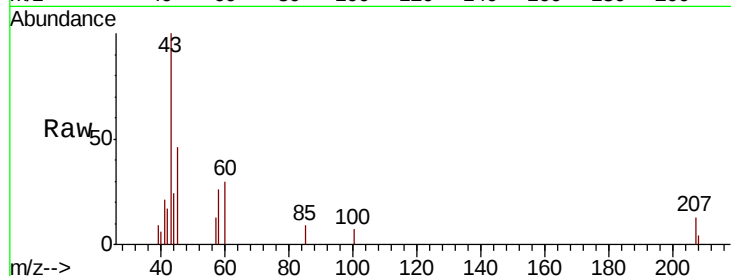




#51
4-Methyl-2-Pentanone
Concen: 1.152 ug/l
RT: 9.97 min Scan# 2548
Delta R.T. -0.00 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

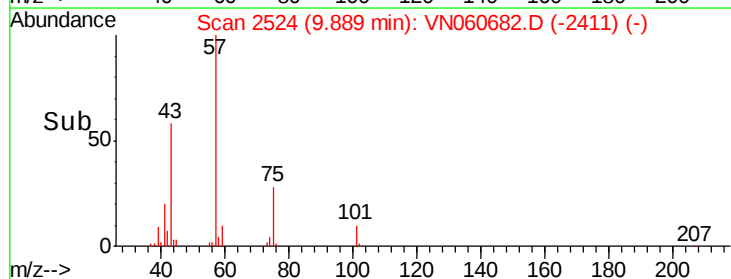
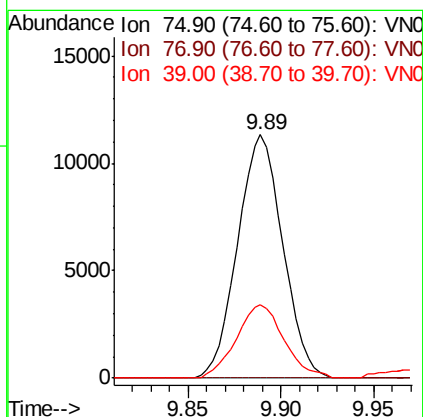
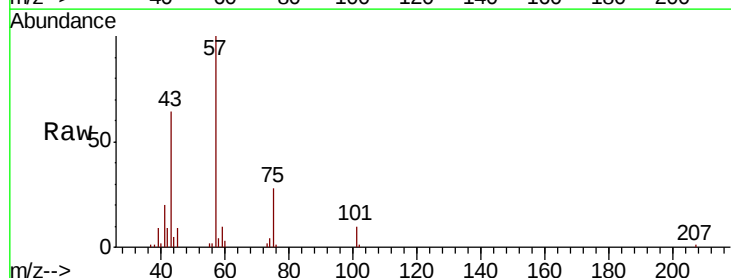
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 3685
Ion Ratio Lower Upper
43 100
58 45.8 30.8 46.2



#54
cis-1,3-Dichloropropene
Concen: 4.801 ug/l
RT: 9.89 min Scan# 2524
Delta R.T. 0.06 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

Tgt Ion: 75 Resp: 19107
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#
39 30.0 40.2 60.4#

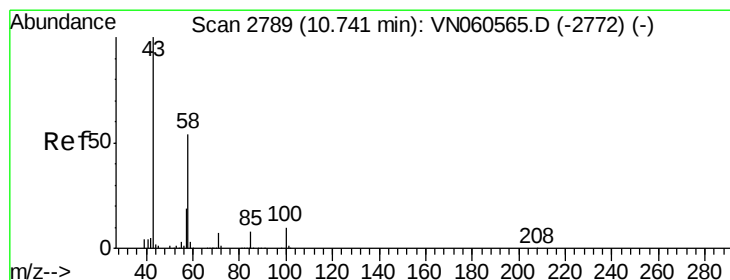
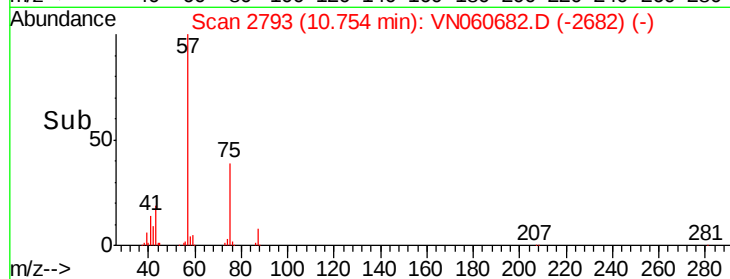
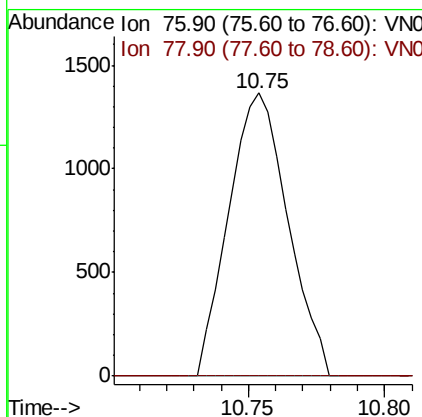
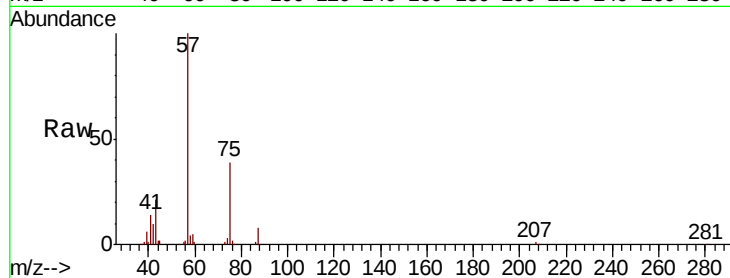




#57
 1,3-Dichloropropane
 Concen: 0.534 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060682.D
 Acq: 24 Mar 2020 19:01

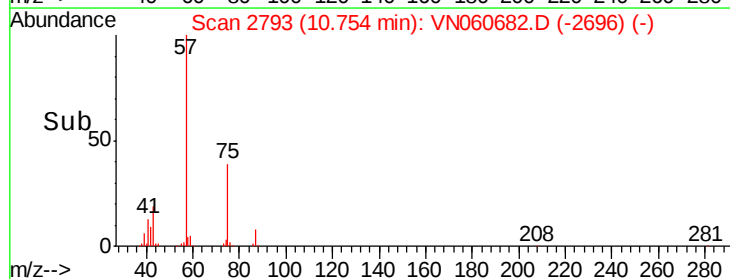
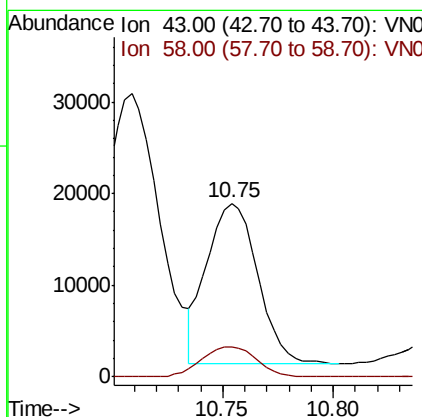
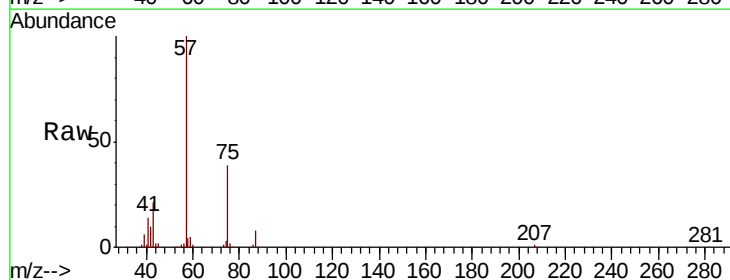
Instrument :
 MSVOA_N
 ClientSampleId :

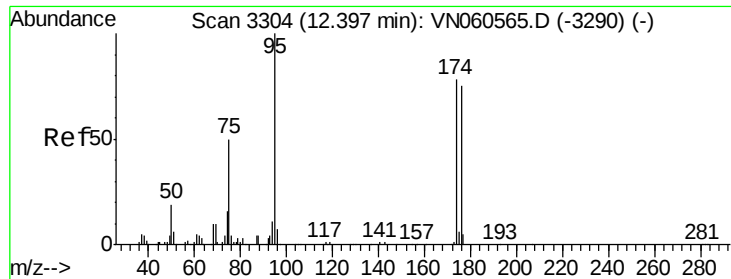
Tot Ion: 76 Resp: 2051
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 12.122 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060682.D
 Acq: 24 Mar 2020 19:01

Tgt Ion: 43 Resp: 27942
 Ion Ratio Lower Upper
 43 100
 58 20.2 26.7 80.1#





#62

4-Bromofluorobenzene

Concen: 50.823 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

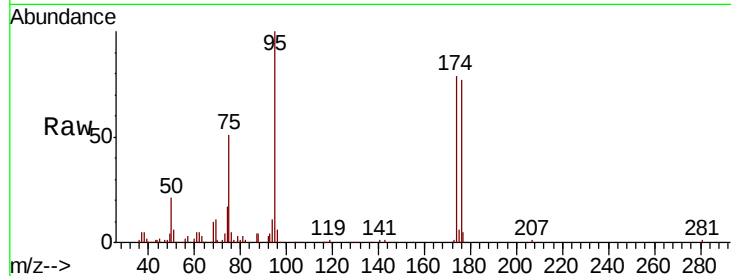
Tot Ion: 95 Resp: 149923

Ion Ratio Lower Upper

95 100

174 78.5 0.0 157.6

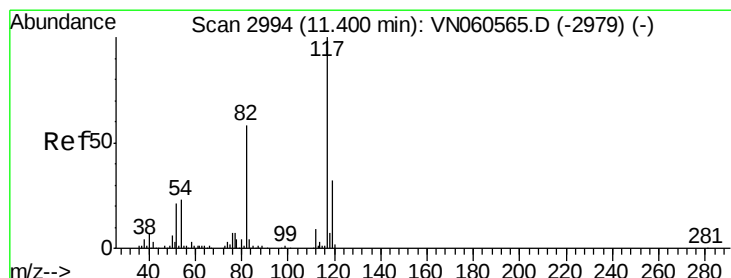
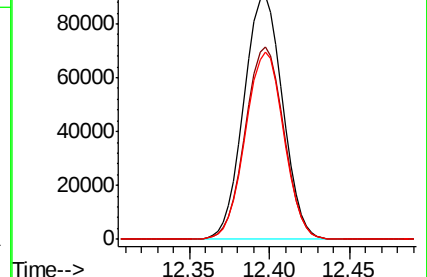
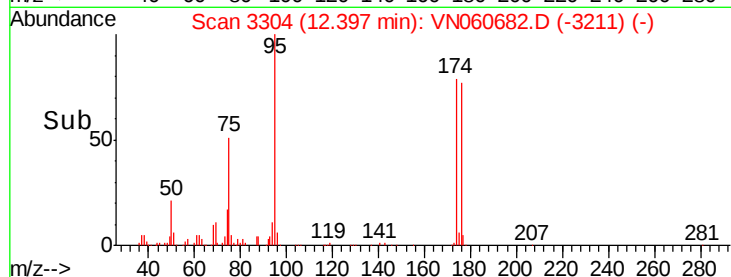
176 76.2 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060682.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060682.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060682.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

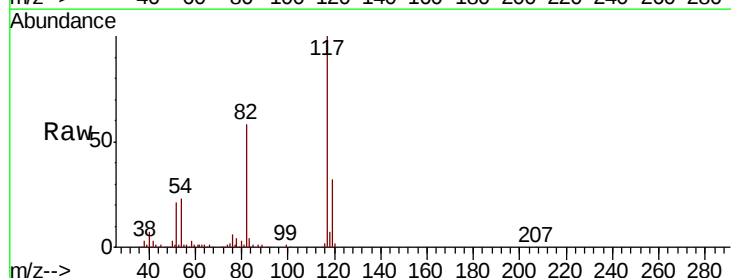
Tgt Ion: 117 Resp: 303443

Ion Ratio Lower Upper

117 100

82 57.5 46.7 70.1

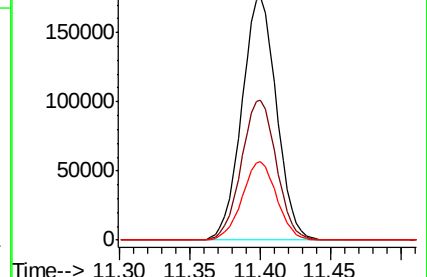
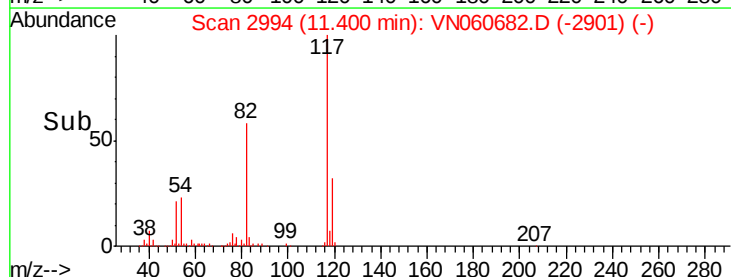
119 32.4 25.5 38.3

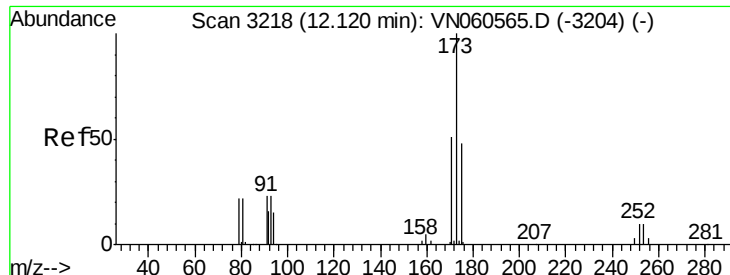


Abundance Ion 116.90 (116.60 to 117.60): VN060682.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060682.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060682.D (-2979) (-)





#71

Bromoform

Concen: 2.111 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

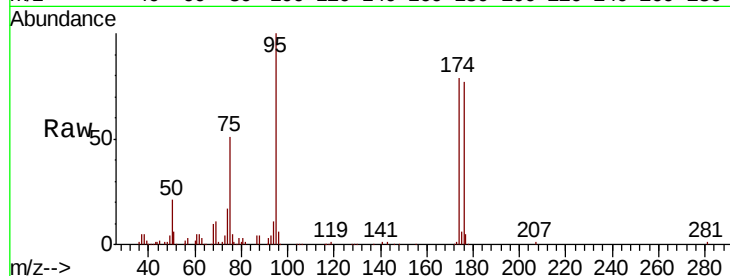
Tot Ion:173 Resp: 806

Ion Ratio Lower Upper

173 100

175 918.6 24.1 72.4#

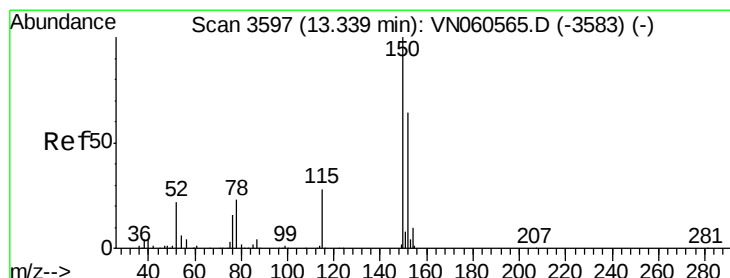
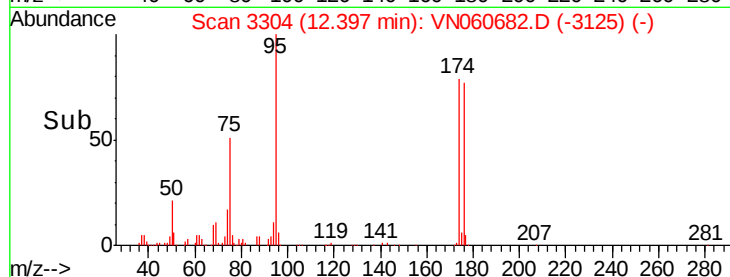
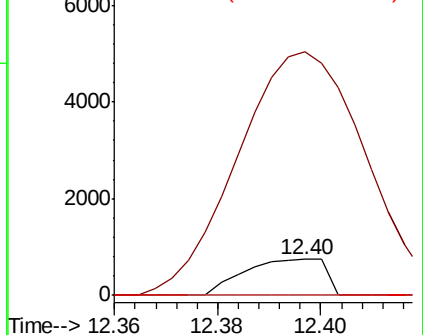
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

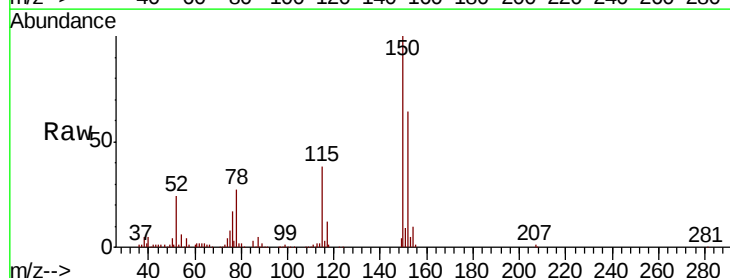
Tgt Ion:152 Resp: 143631

Ion Ratio Lower Upper

152 100

115 59.7 30.2 90.6

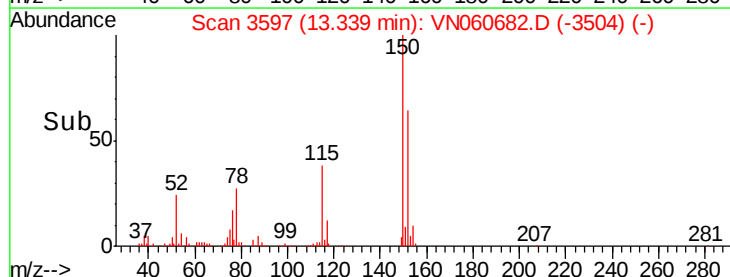
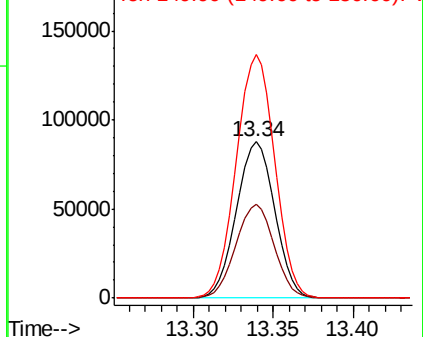
150 156.2 0.0 350.2



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-amvl acetate

Concen: 0.417 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060682.D

Acq: 24 Mar 2020 19:01

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2077

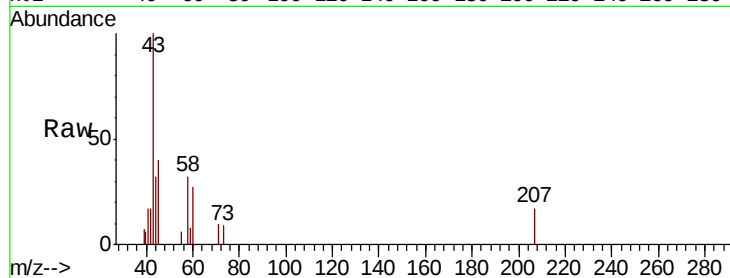
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 2.9 18.6 27.8#

61 0.0 18.9 28.3#

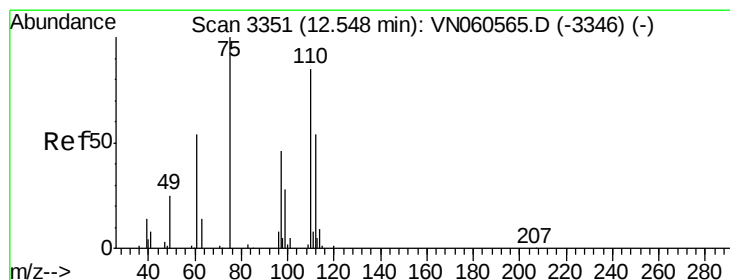
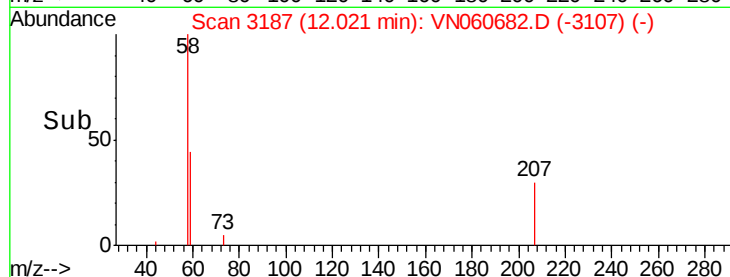
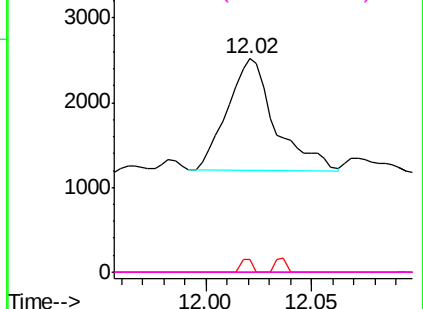


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.654 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060682.D

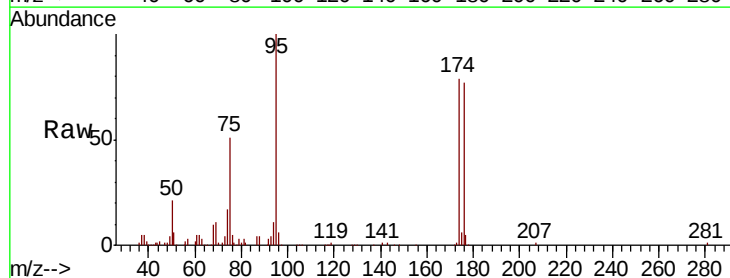
Acq: 24 Mar 2020 19:01

Tgt Ion: 75 Resp: 76410

Ion Ratio Lower Upper

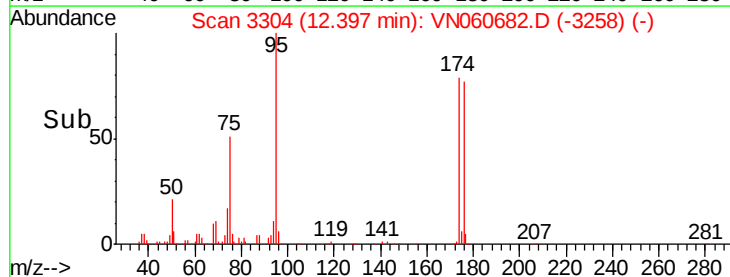
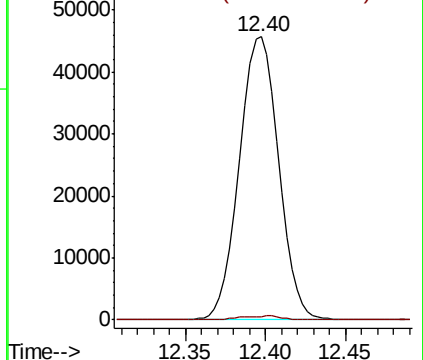
75 100

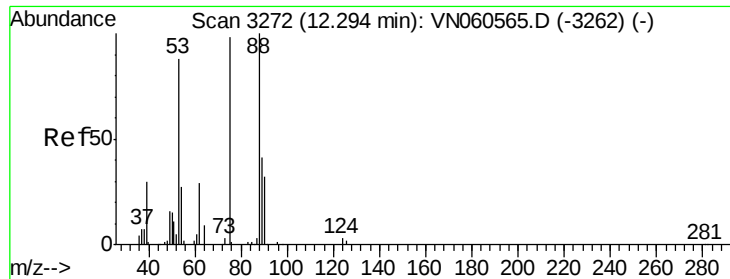
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

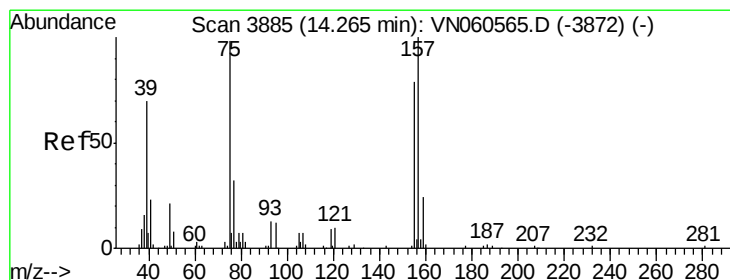
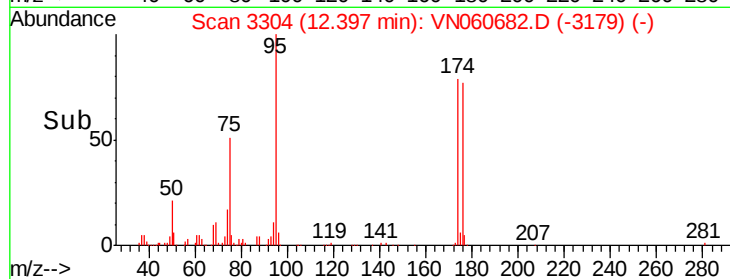
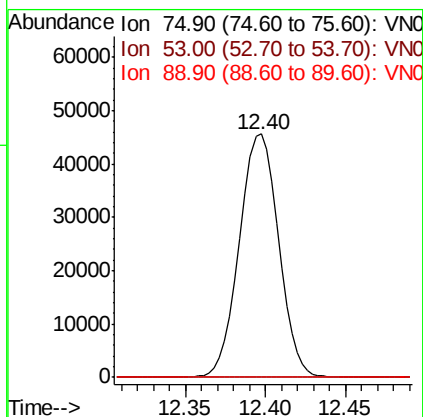
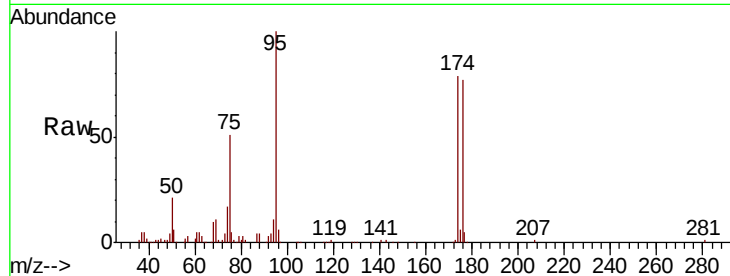




#81
trans-1,4-Dichloro-2-butene
Concen: 63.319 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 75 Resp: 76410
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.4#
89 0.0 34.8 52.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.48 min Scan# 3952
Delta R.T. 0.22 min
Lab File: VN060682.D
Acq: 24 Mar 2020 19:01

Tgt Ion: 75 Resp: 29
Ion Ratio Lower Upper
75 100
155 0.0 40.7 122.1#
157 0.0 51.5 154.7#

