

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021720\
 Data File : VN060119.D
 Acq On : 17 Feb 2020 15:07
 Operator : JC/MD
 Sample : PB126834ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 17 16:56:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	180682	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	290748	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	269928	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	119817	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	111935	50.91	ug/l	0.00
Spiked Amount			Recovery	=	101.82%	
35) Dibromofluoromethane	7.57	113	88082	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
50) Toluene-d8	10.08	98	354531	50.37	ug/l	0.00
Spiked Amount			Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.40	95	127657	49.36	ug/l	0.00
Spiked Amount			Recovery	=	98.72%	

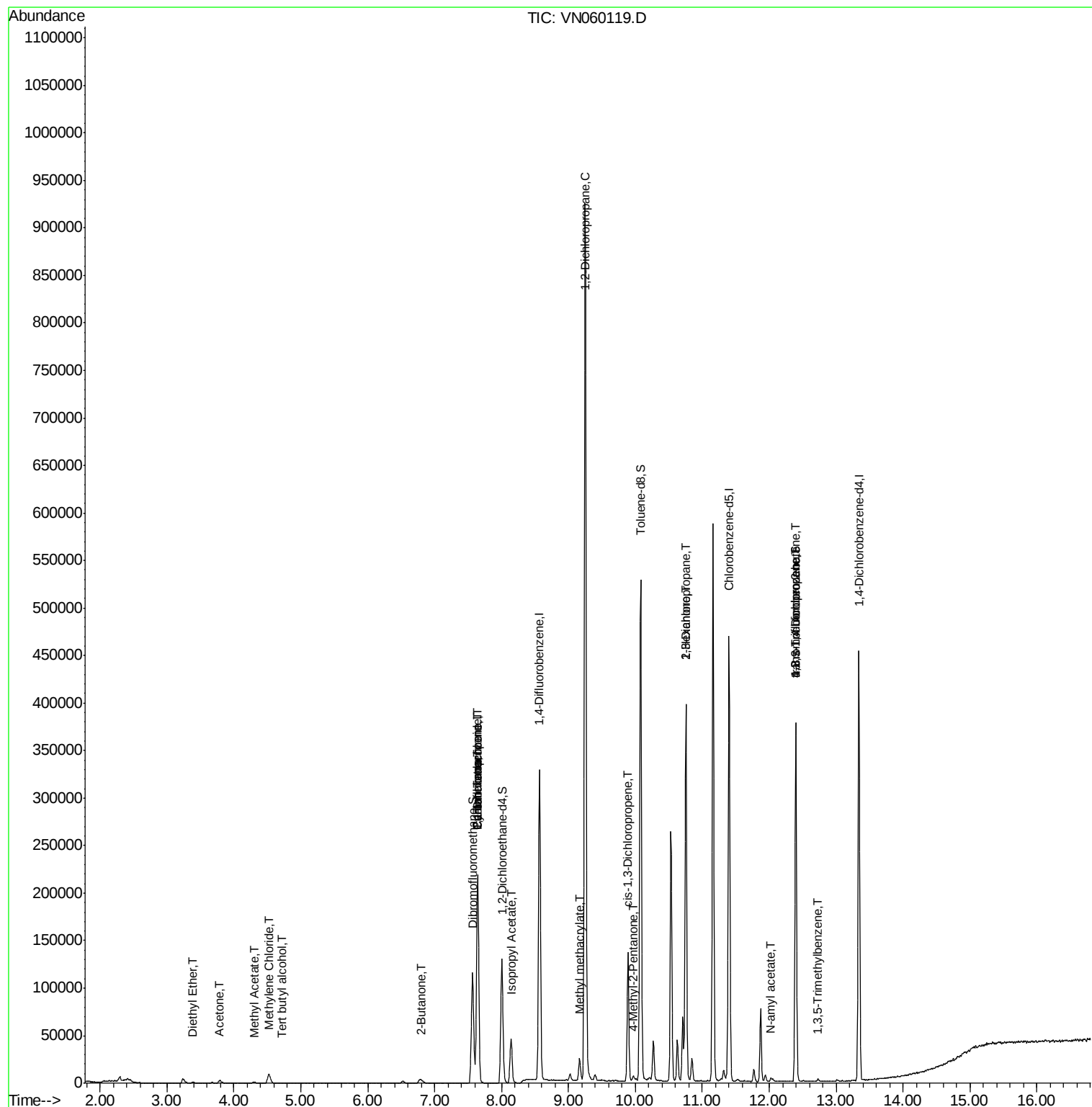
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	470	0.447	ug/l	57
11) Tert butyl alcohol	4.73	59	401	1.219	ug/l #	72
16) Acetone	3.79	43	5439	5.671	ug/l	100
18) Methyl Acetate	4.30	43	945	0.525	ug/l #	50
20) Methylene Chloride	4.53	84	7510	3.925	ug/l	95
25) 2-Butanone	6.81	43	4542	3.766	ug/l	93
31) Cyclohexane	7.64	56	3787	1.218	ug/l #	13
36) 1,1-Dichloropropene	7.64	75	13279	4.931	ug/l #	48
38) Carbon Tetrachloride	7.64	117	17456	5.968	ug/l #	15
43) Isopropyl Acetate	8.14	43	55809	13.414	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1211	0.612	ug/l #	43
48) Methyl methacrylate	9.16	41	4147	2.222	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	4222	1.753	ug/l	88
54) cis-1,3-Dichloropropene	9.89	75	24708	7.316	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3942	1.195	ug/l #	43
59) 2-Hexanone	10.75	43	60477	32.510	ug/l #	51
74) N-amyl acetate	12.02	43	3488	1.081	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	65478	28.564	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2045	0.275	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	65478	69.938	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.35	75	121	Below Cal	#	1

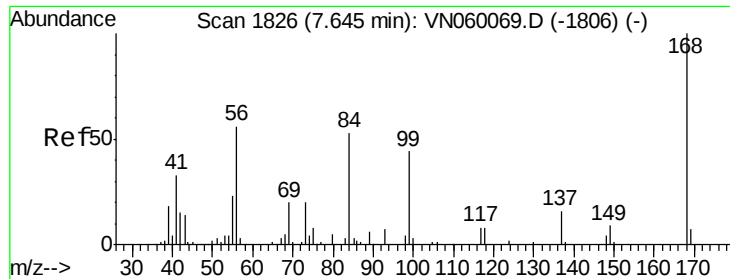
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
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: VN060119.D

Acq: 17 Feb 2020 15:07

Instrument :

MSVOA_N

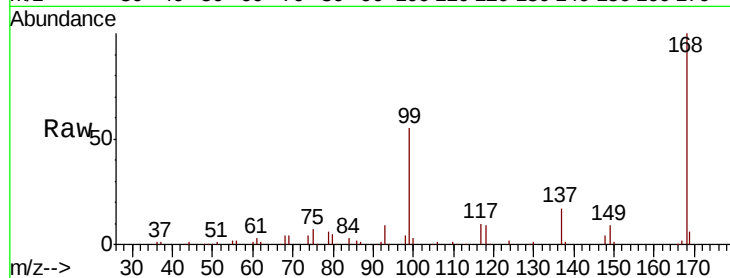
ClientSampled :

Tot Ion:168 Resp: 180682

Ion Ratio Lower Upper

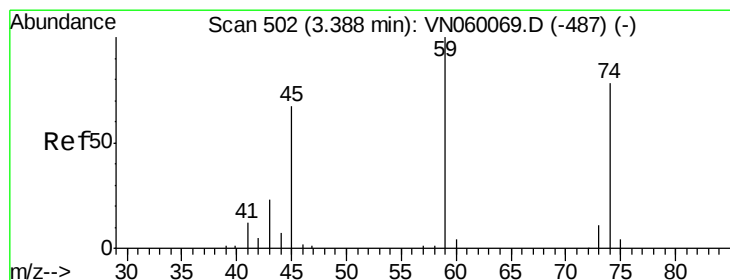
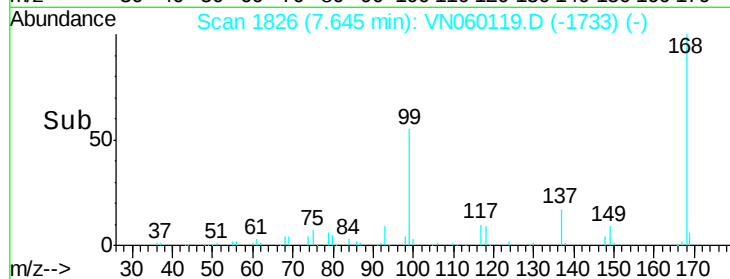
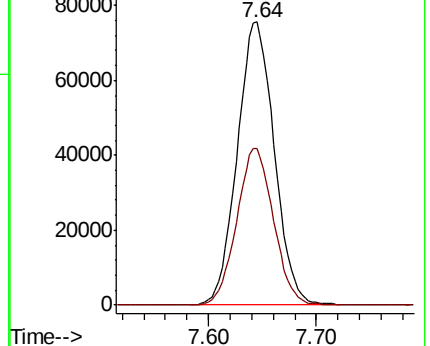
168 100

99 55.2 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#8

Diethyl Ether

Concen: 0.447 ug/l

RT: 3.39 min Scan# 503

Delta R.T. 0.00 min

Lab File: VN060119.D

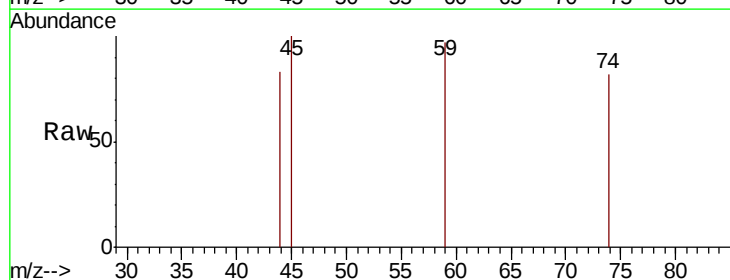
Acq: 17 Feb 2020 15:07

Tgt Ion: 74 Resp: 470

Ion Ratio Lower Upper

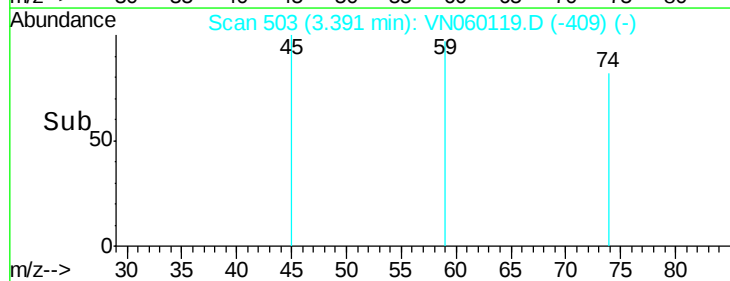
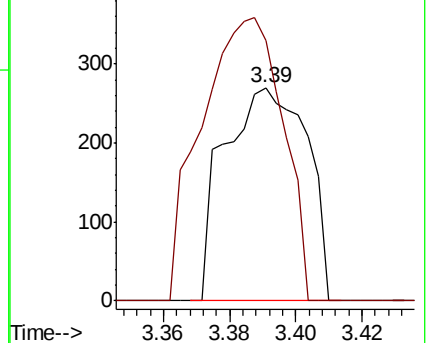
74 100

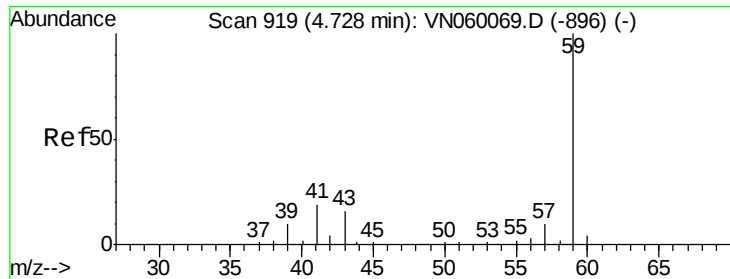
45 129.6 44.7 134.1



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN

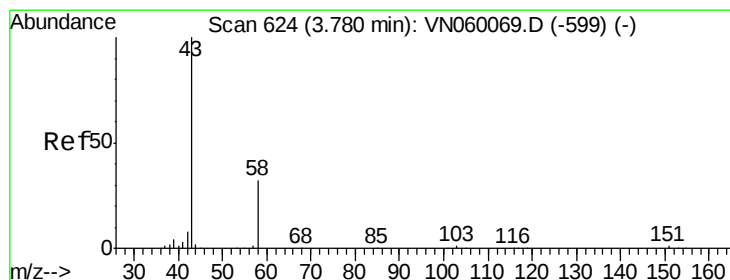
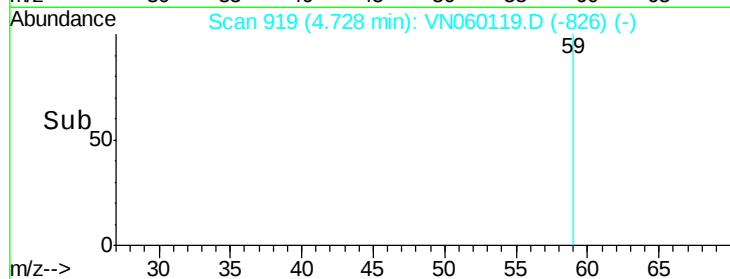
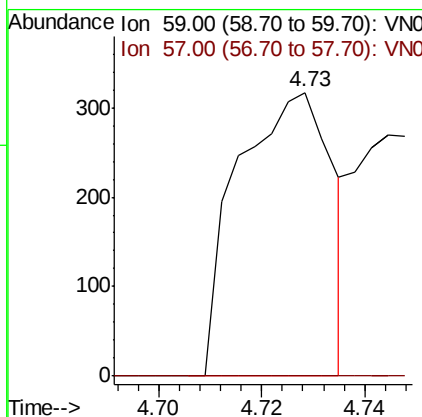
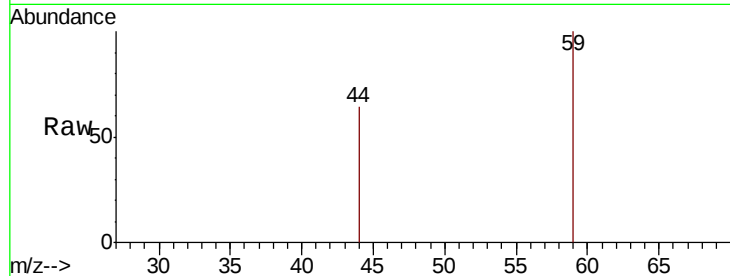




#11
Tert butyl alcohol
Concen: 1.219 ug/l
RT: 4.73 min Scan# 919
Delta R.T. 0.00 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

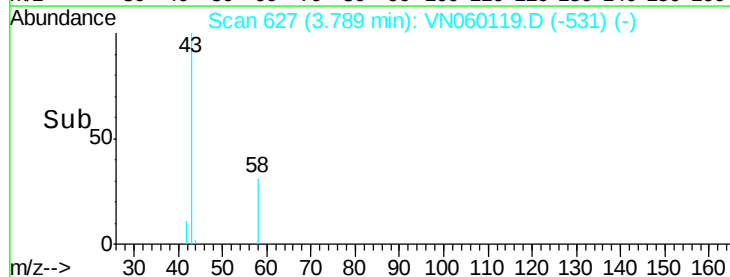
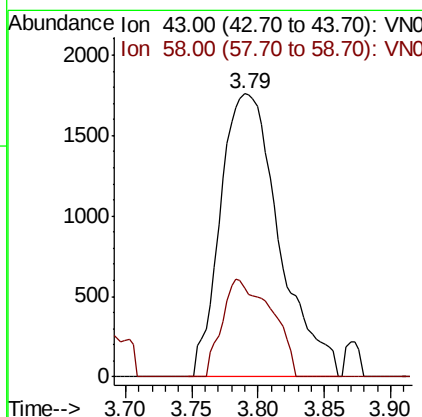
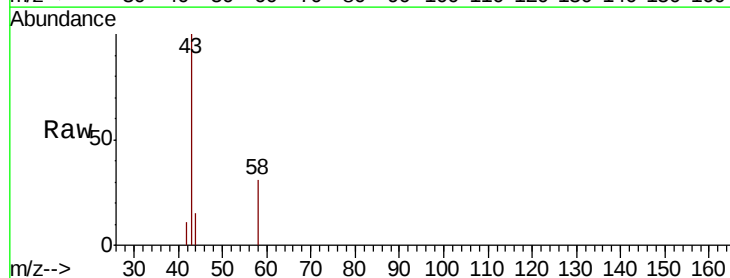
Instrument :
MSVOA_N
ClientSampled :

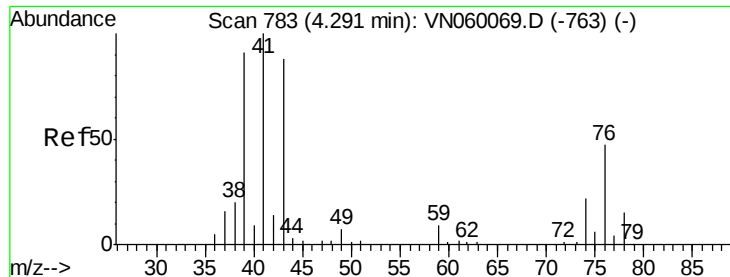
Tot Ion: 59 Resp: 401
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 5.671 ug/l
RT: 3.79 min Scan# 627
Delta R.T. 0.01 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

Tgt Ion: 43 Resp: 5439
Ion Ratio Lower Upper
43 100
58 31.4 25.2 37.8

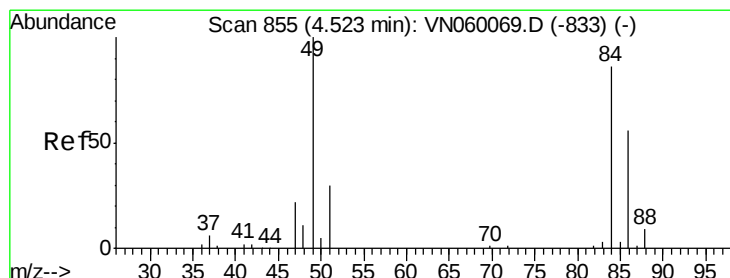
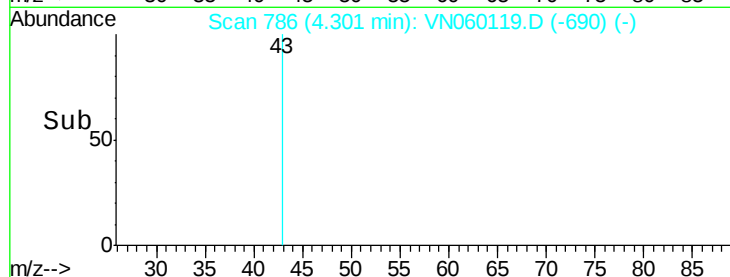
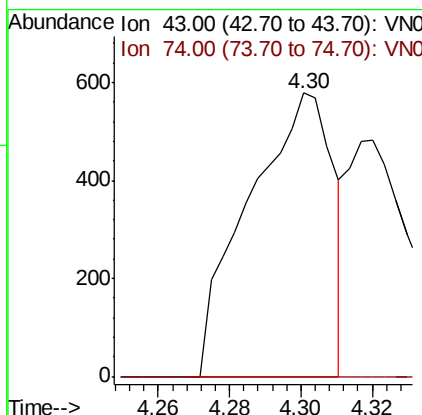
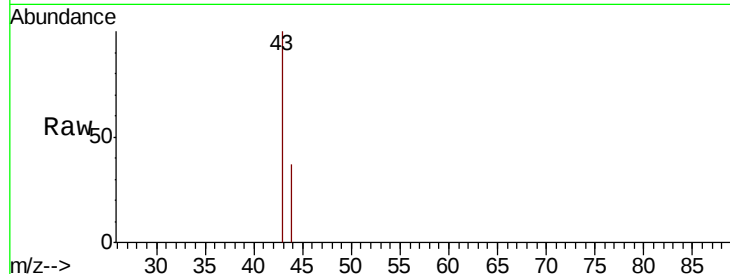




#18
Methyl Acetate
Concen: 0.525 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

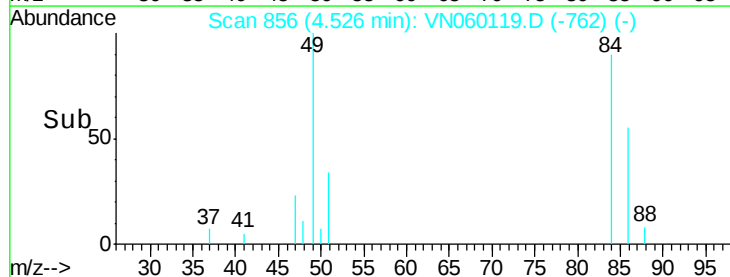
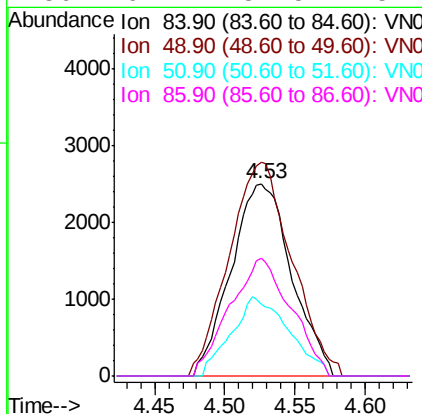
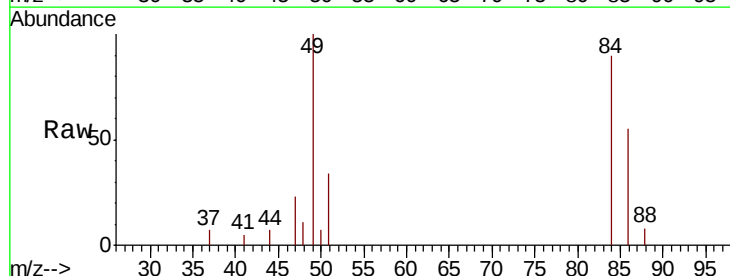
Instrument :
MSVOA_N
ClientSampleId :

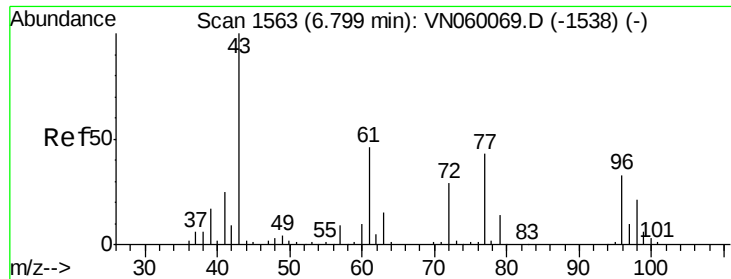
Tot Ion: 43 Resp: 945
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: 3.925 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

Tgt Ion: 84 Resp: 7510
Ion Ratio Lower Upper
84 100
49 111.1 93.4 140.0
51 37.4 28.4 42.6
86 61.4 52.5 78.7

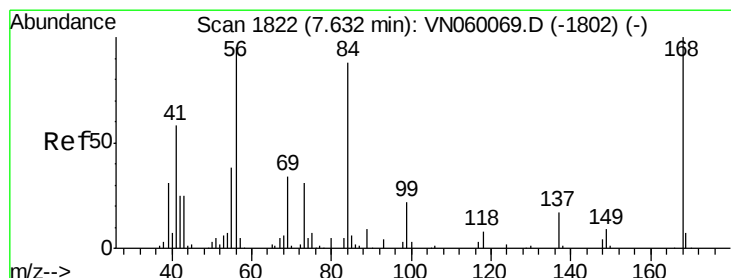
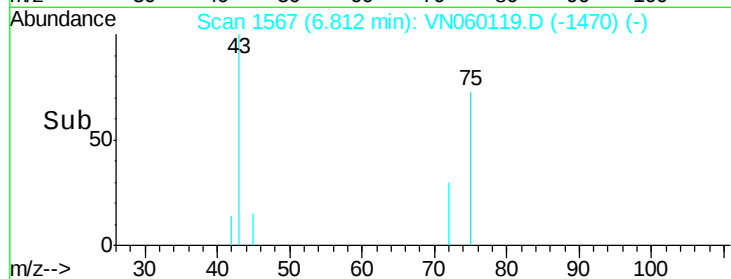
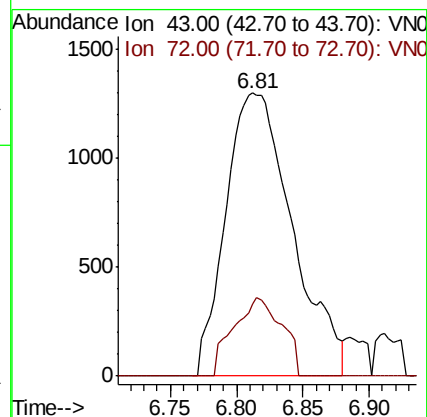
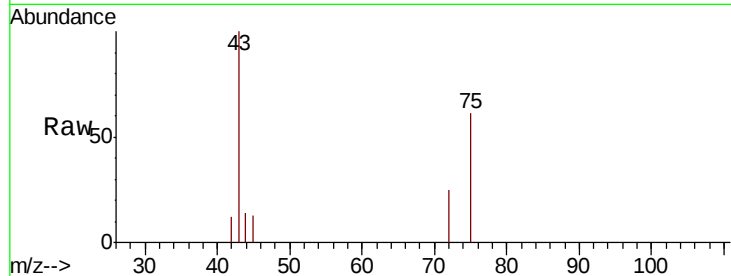




#25
2-Butanone
Concen: 3.766 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

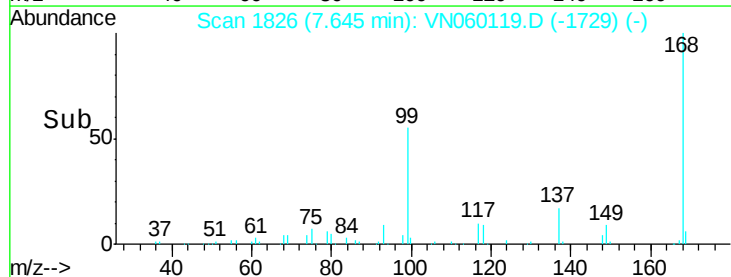
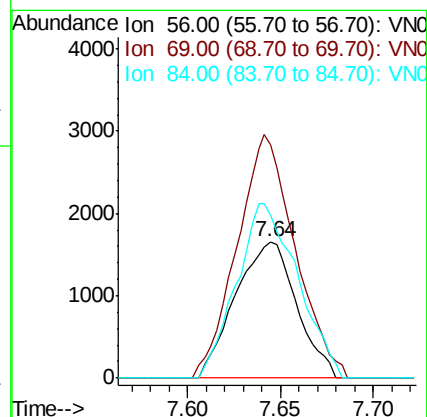
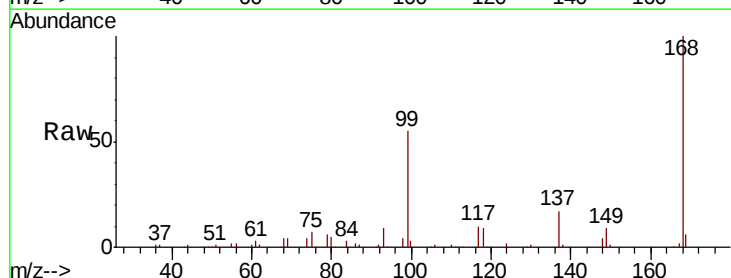
Instrument :
MSVOA_N
ClientSampleId :

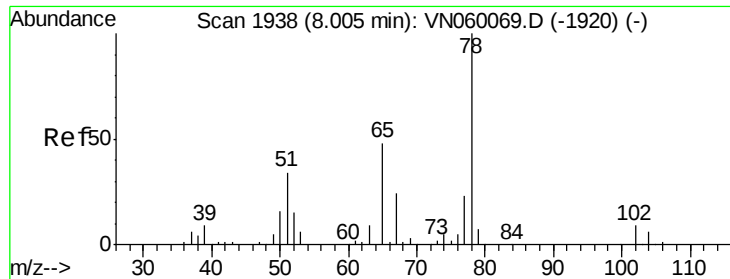
Tot Ion: 43 Resp: 4542
Ion Ratio Lower Upper
43 100
72 25.3 23.3 34.9



#31
Cyclohexane
Concen: 1.218 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

Tgt Ion: 56 Resp: 3787
Ion Ratio Lower Upper
56 100
69 171.2 28.3 42.5#
84 119.6 72.6 108.8#

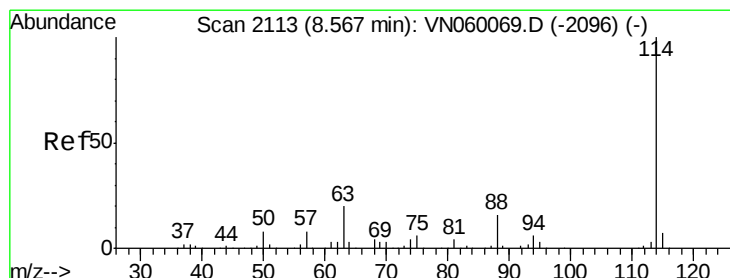
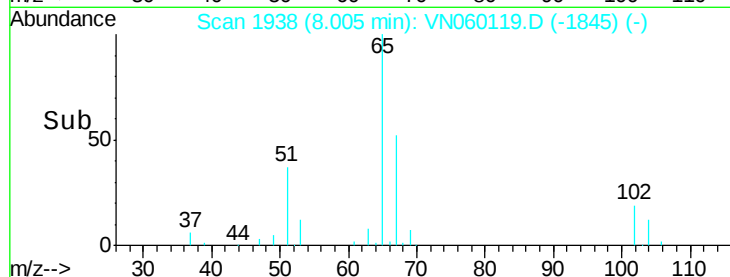
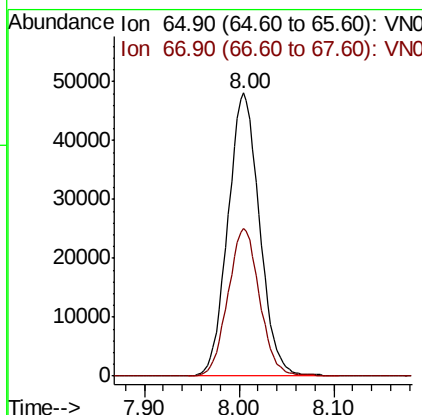
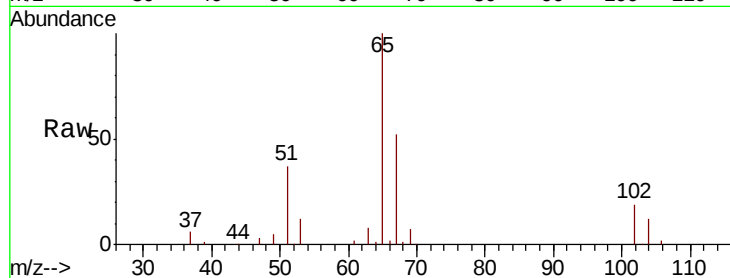




#33
 1,2-Dichloroethane-d4
 Concen: 50.912 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060119.D
 Acq: 17 Feb 2020 15:07

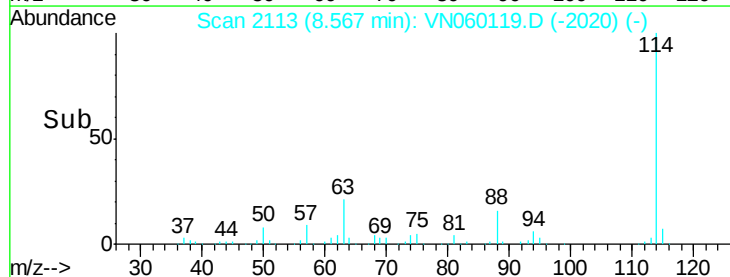
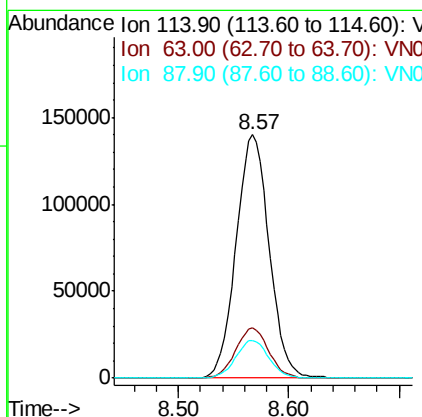
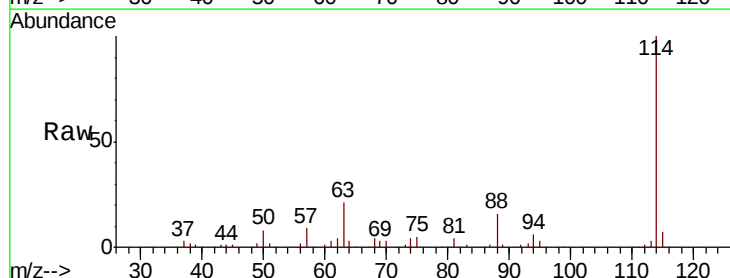
Instrument :
 MSVOA_N
 ClientSampleId :

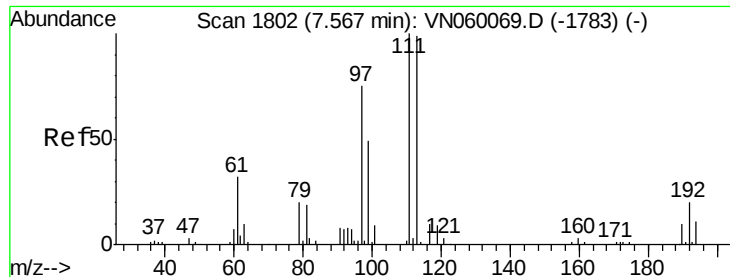
Tot Ion: 65 Resp: 111935
 Ion Ratio Lower Upper
 65 100
 67 52.0 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060119.D
 Acq: 17 Feb 2020 15:07

Tgt Ion: 114 Resp: 290748
 Ion Ratio Lower Upper
 114 100
 63 20.5 0.0 40.0
 88 15.6 0.0 31.6

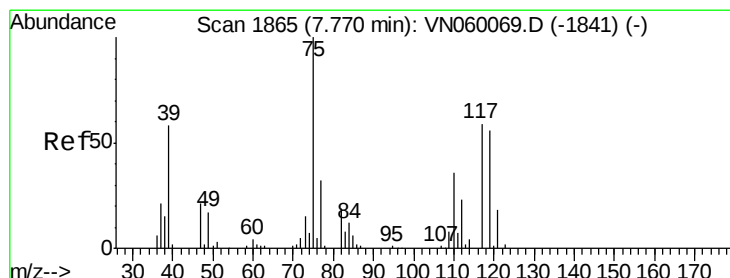
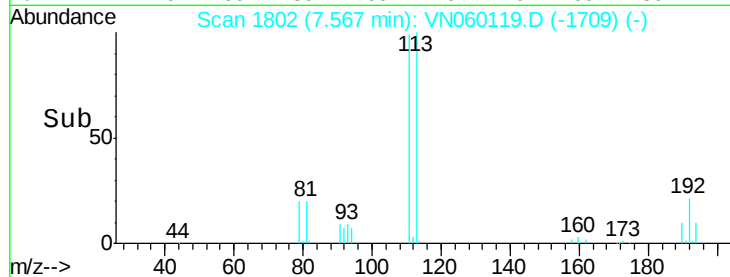
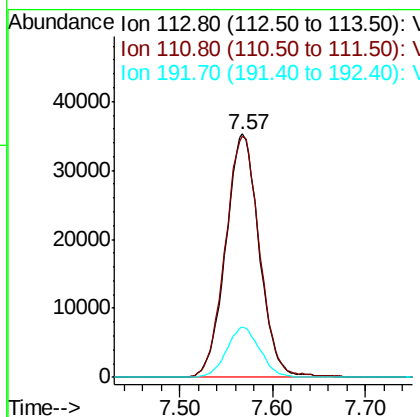
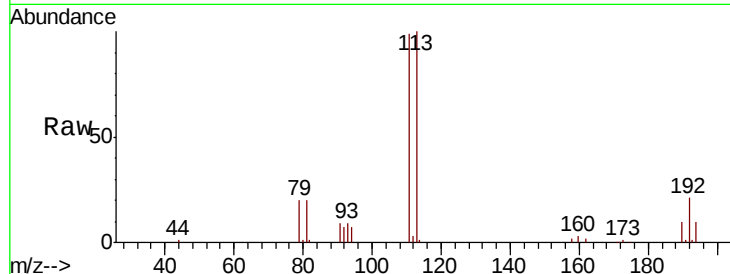




#35
 Dibromofluoromethane
 Concen: 49.284 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060119.D
 Acq: 17 Feb 2020 15:07

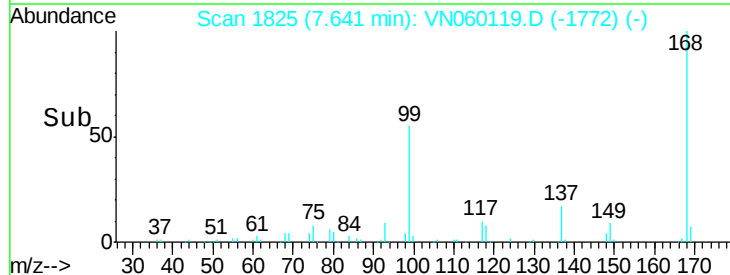
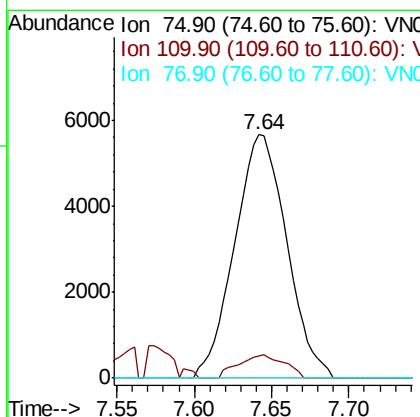
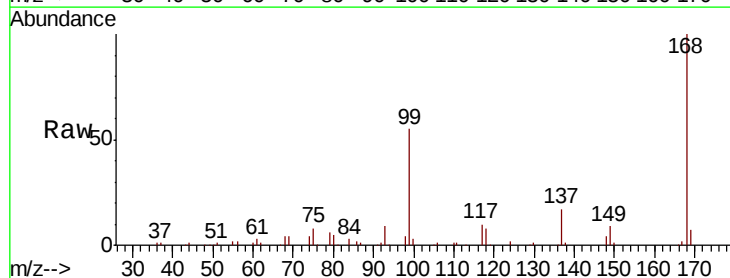
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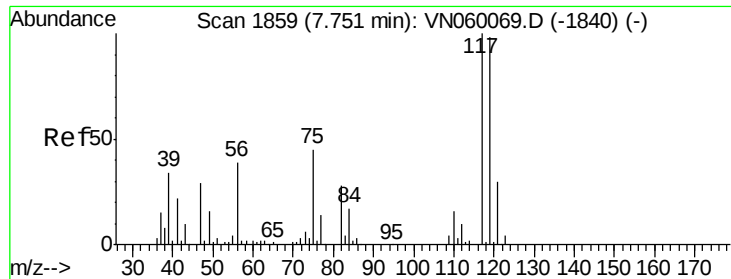
Tot Ion:113 Resp: 88082
 Ion Ratio Lower Upper
 113 100
 111 101.7 81.4 122.2
 192 20.4 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.931 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060119.D
 Acq: 17 Feb 2020 15:07

Tgt Ion: 75 Resp: 13279
 Ion Ratio Lower Upper
 75 100
 110 8.4 18.1 54.3#
 77 0.0 25.1 37.7#

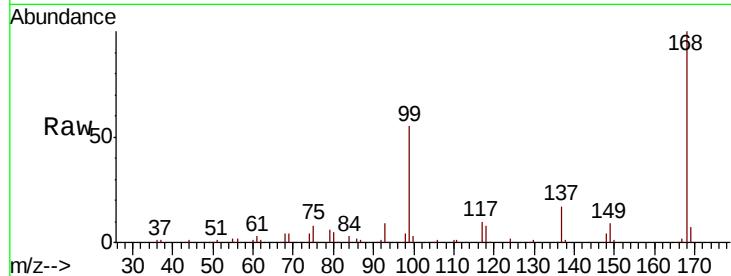




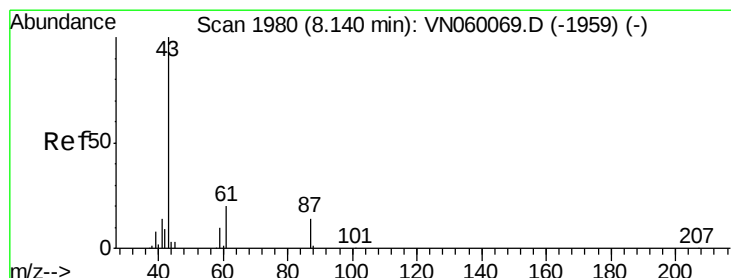
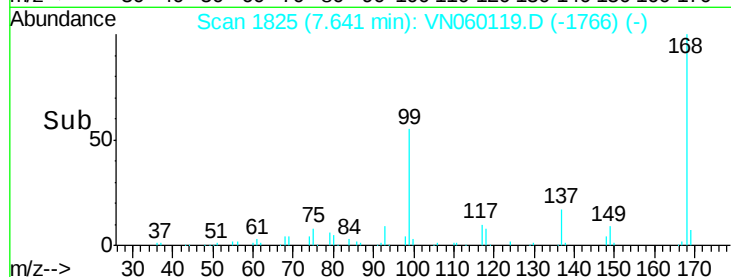
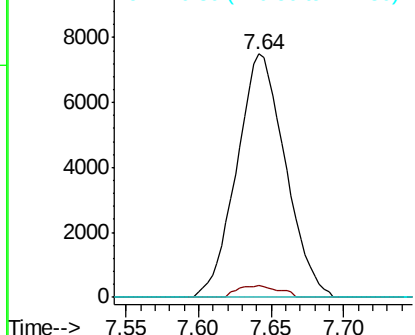
#38
Carbon Tetrachloride
Concen: 5.968 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 17456
Ion Ratio Lower Upper
117 100
119 4.8 78.2 117.4#
121 0.0 24.2 36.2#

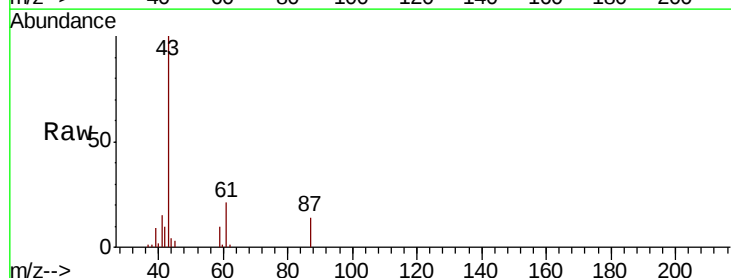


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

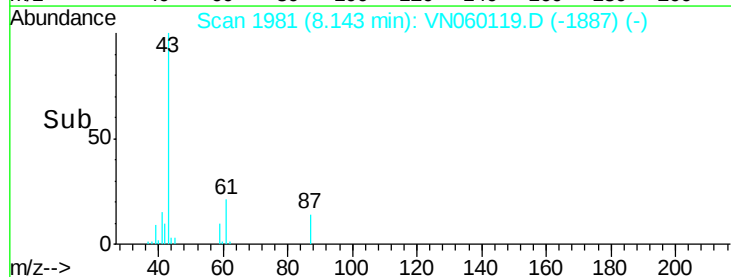
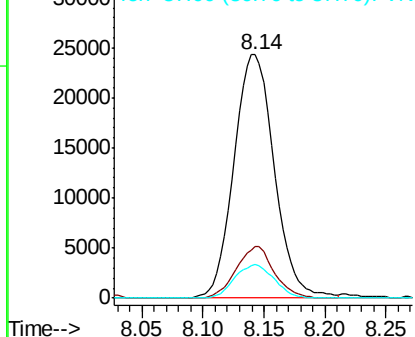


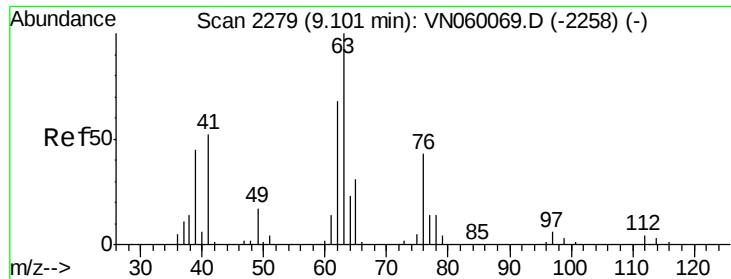
#43
Isopropyl Acetate
Concen: 13.414 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

Tgt Ion: 43 Resp: 55809
Ion Ratio Lower Upper
43 100
61 19.7 21.8 32.6#
87 13.3 11.4 17.2



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





#45

1,2-Dichloropropane

Concen: 0.612 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN060119.D

Acq: 17 Feb 2020 15:07

Instrument :

MSVOA_N

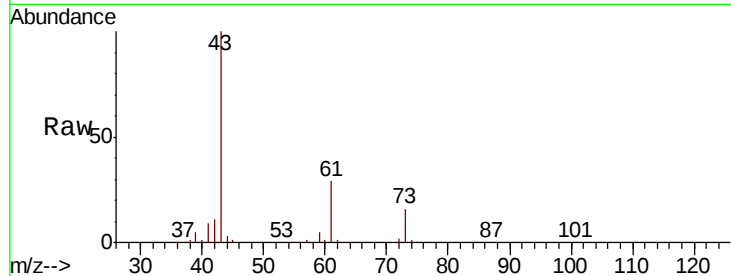
ClientSampleId :

Tot Ion: 63 Resp: 1211

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.25

800

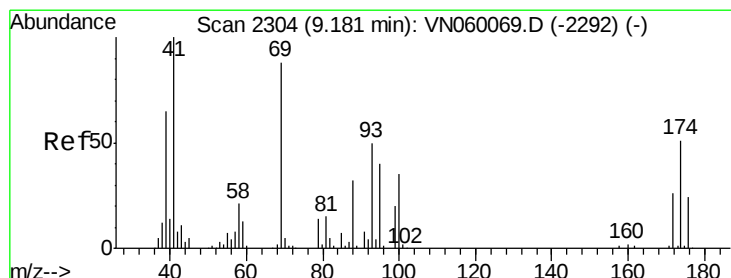
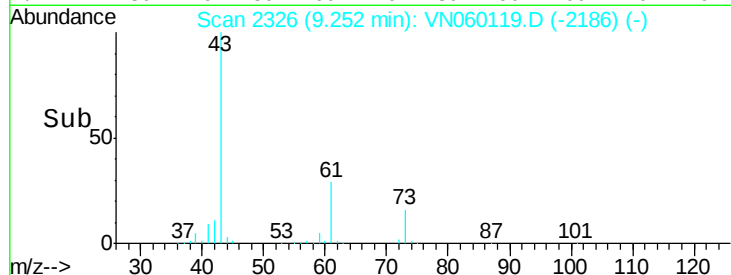
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 2.222 ug/l

RT: 9.16 min Scan# 2296

Delta R.T. -0.03 min

Lab File: VN060119.D

Acq: 17 Feb 2020 15:07

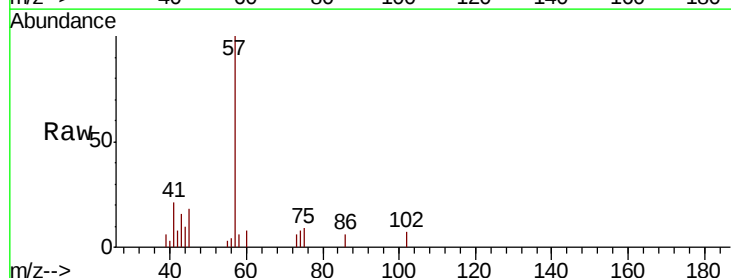
Tgt Ion: 41 Resp: 4147

Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

39 0.0 54.1 81.1#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

60000

50000

40000

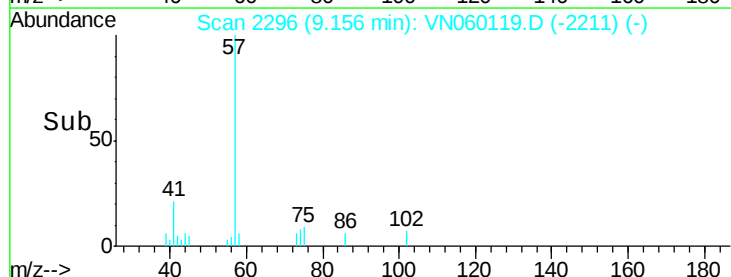
30000

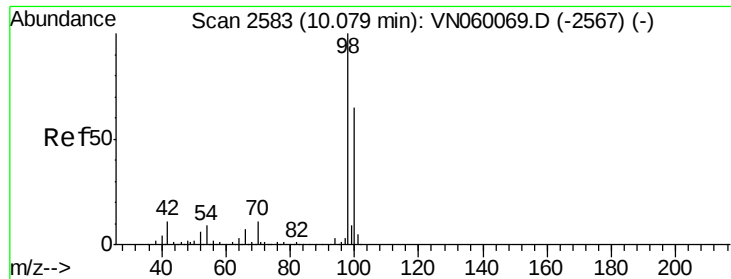
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 50.374 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060119.D

Acq: 17 Feb 2020 15:07

Instrument :

MSVOA_N

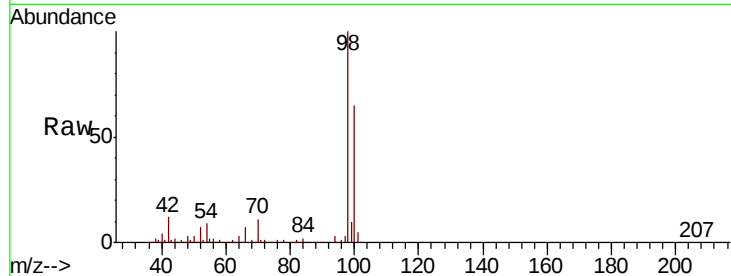
ClientSampled :

Tot Ion: 98 Resp: 354531

Ion Ratio Lower Upper

98 100

100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN060119.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060119.D (-2567) (-)

10.08

200000

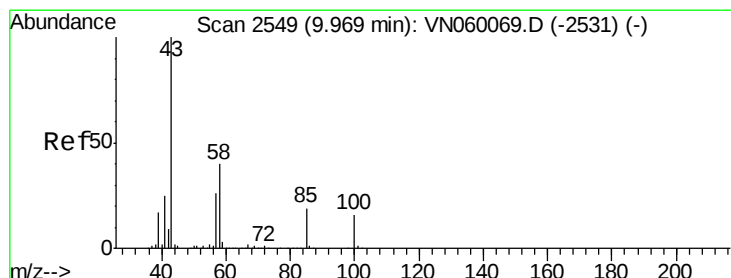
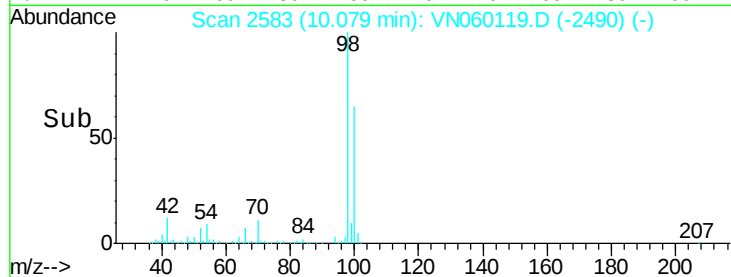
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.753 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060119.D

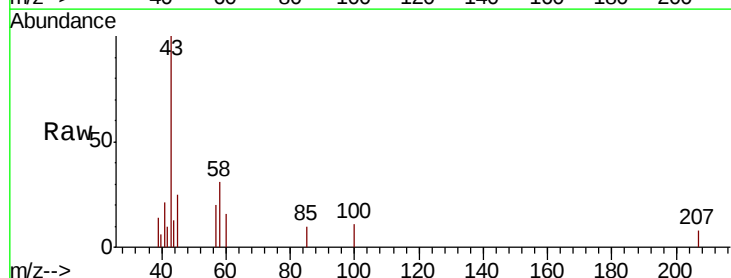
Acq: 17 Feb 2020 15:07

Tgt Ion: 43 Resp: 4222

Ion Ratio Lower Upper

43 100

58 32.3 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN060119.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060119.D (-2531) (-)

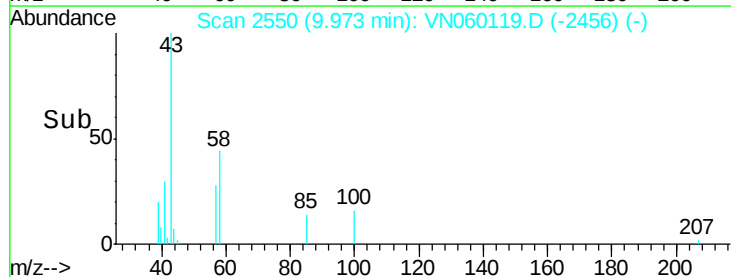
15000

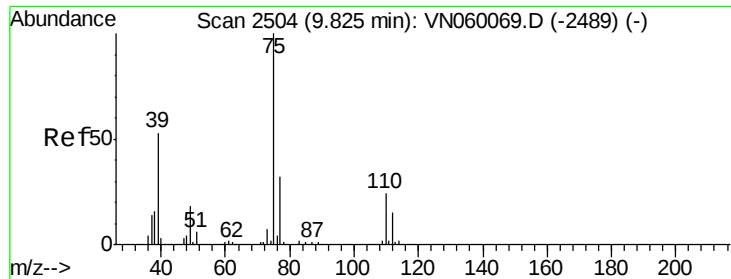
10000

5000

0

Time-->



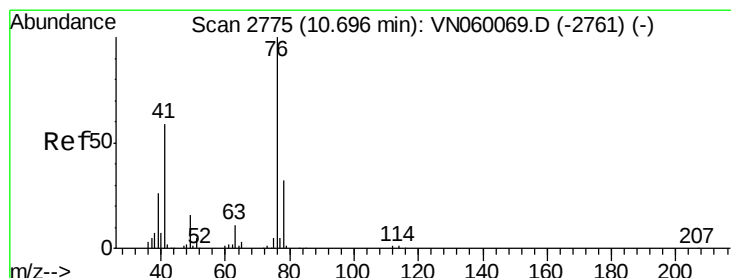
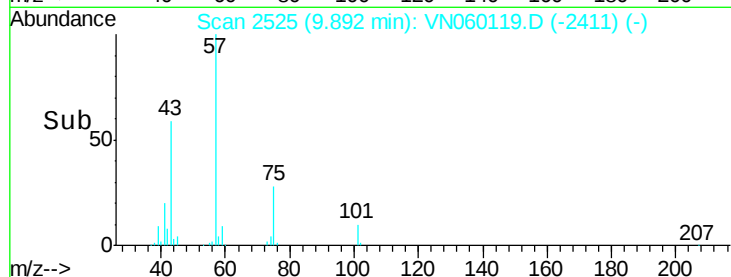
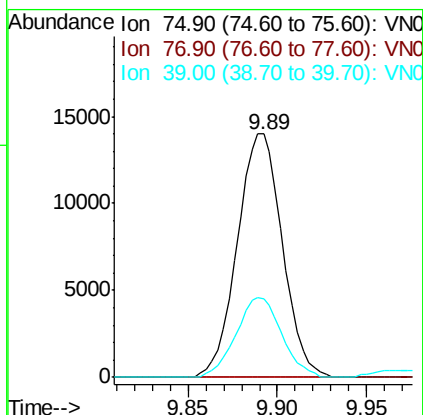
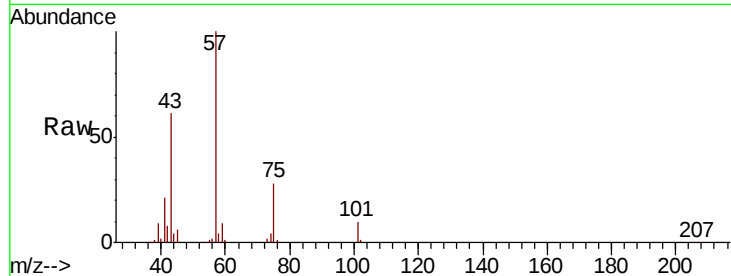


#54

cis-1,3-Dichloropropene
 Concen: 7.316 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.07 min
 Lab File: VN060119.D
 Acq: 17 Feb 2020 15:07

Instrument :
 MSVOA_N
 ClientSampleId :

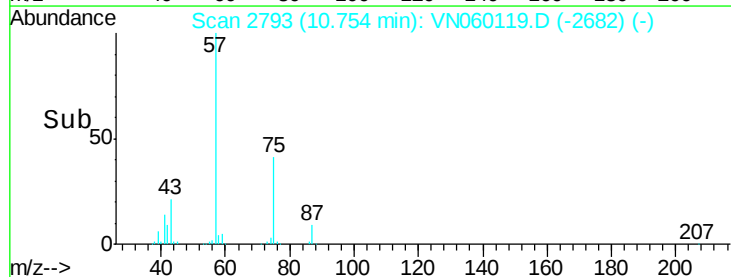
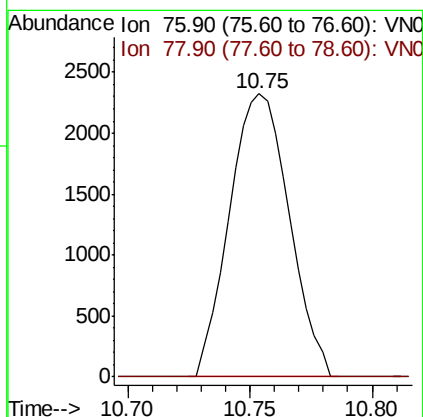
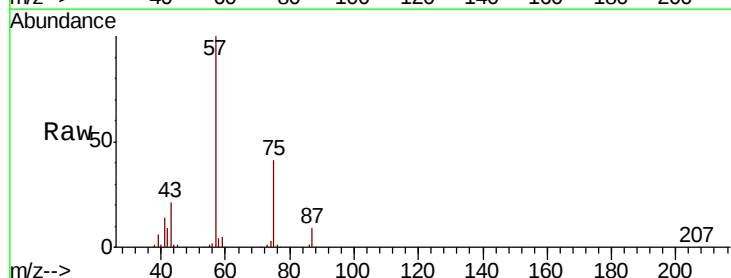
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.6	38.4#
39	32.1	42.2	63.4#

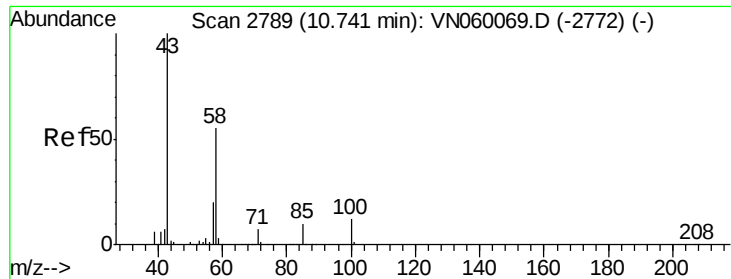


#57

1,3-Dichloropropane
 Concen: 1.195 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060119.D
 Acq: 17 Feb 2020 15:07

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.7	38.5#

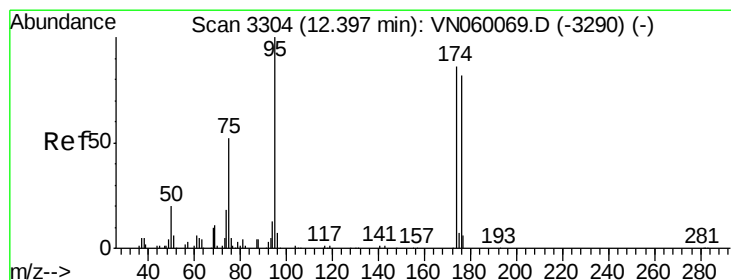
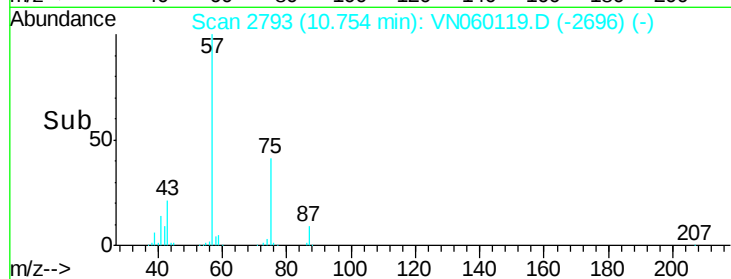
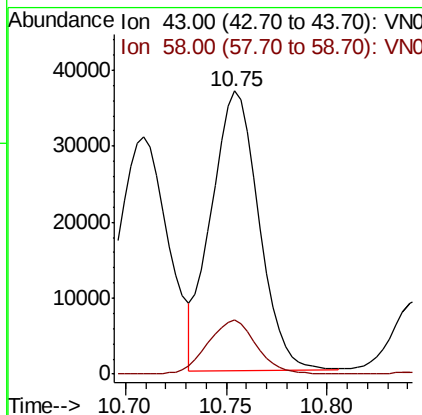
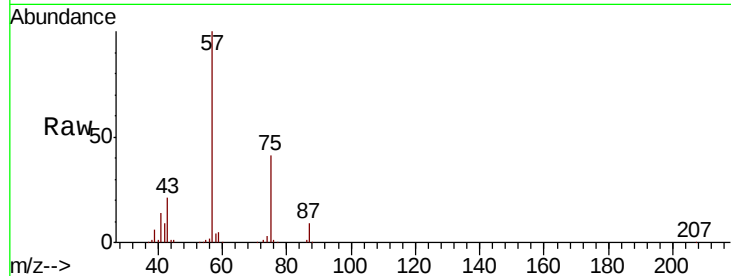




#59
2-Hexanone
Concen: 32.510 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

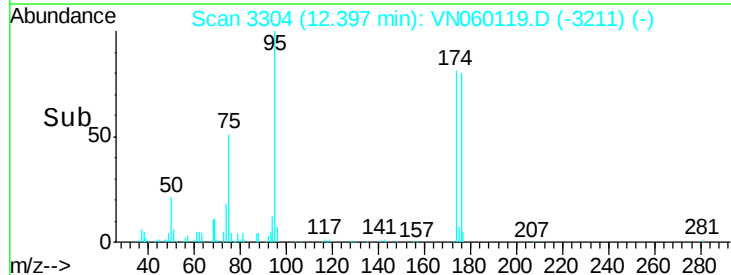
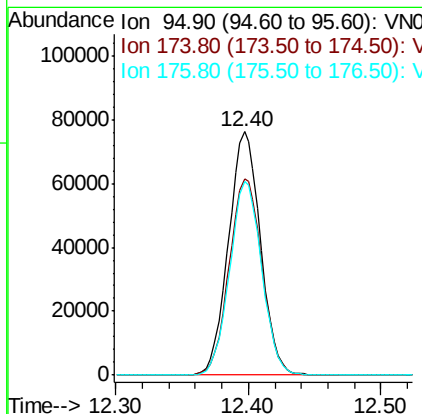
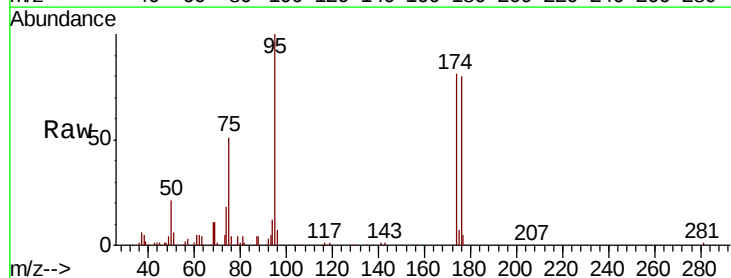
Instrument :
MSVOA_N
ClientSampled :

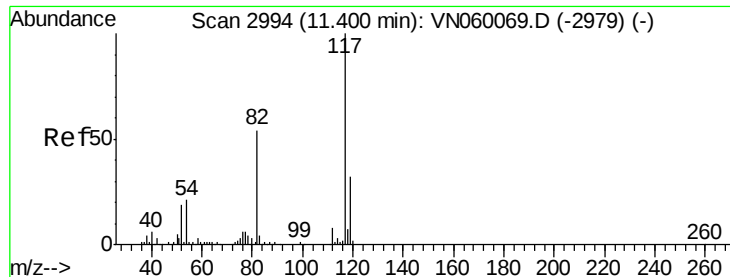
Tot Ion: 43 Resp: 60477
Ion Ratio Lower Upper
43 100
58 19.8 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 49.362 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

Tgt Ion: 95 Resp: 127657
Ion Ratio Lower Upper
95 100
174 82.6 0.0 169.8
176 79.7 0.0 164.8

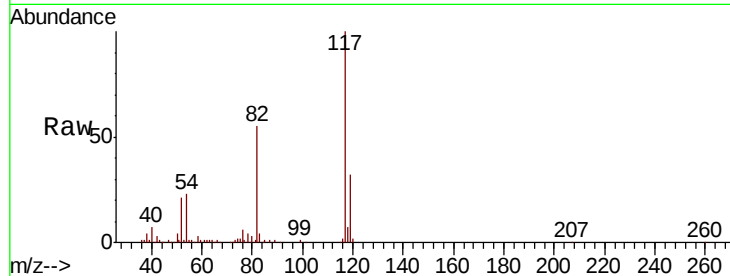




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060119.D
Acq: 17 Feb 2020 15:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.4	43.4	65.0
119	32.1	25.8	38.6

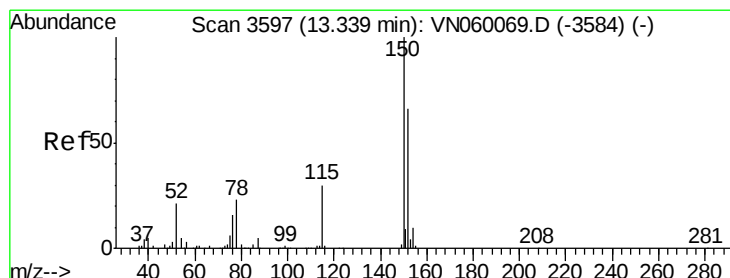
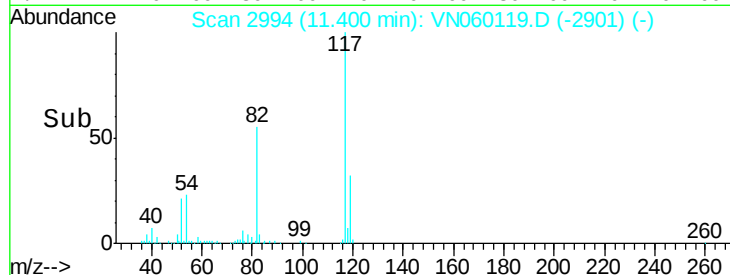
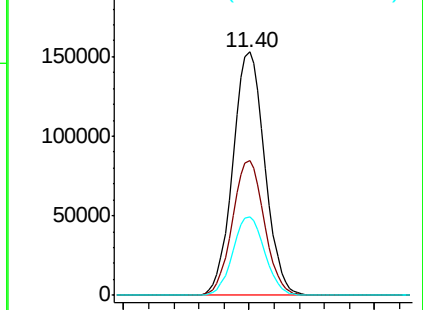


Abundance

Ion 116.90 (116.60 to 117.60): V

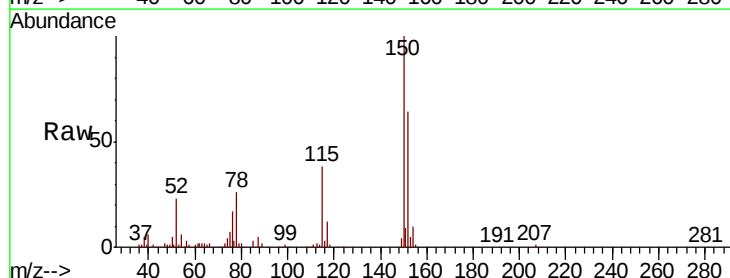
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): 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: VN060119.D
Acq: 17 Feb 2020 15:07

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.8	28.9	86.8
150	158.2	0.0	342.4

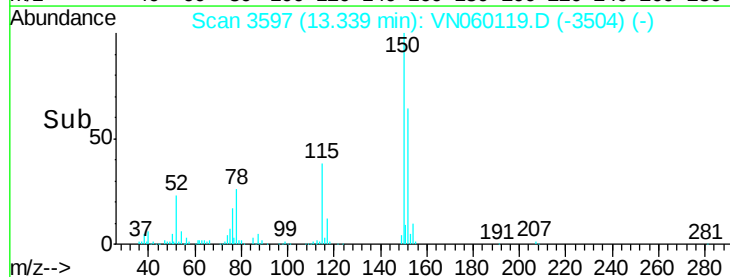
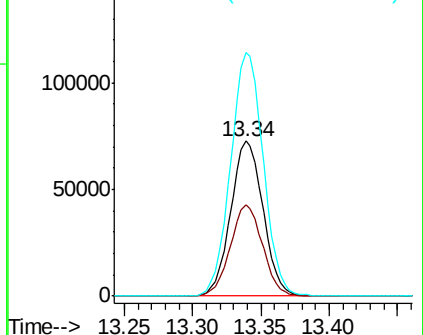


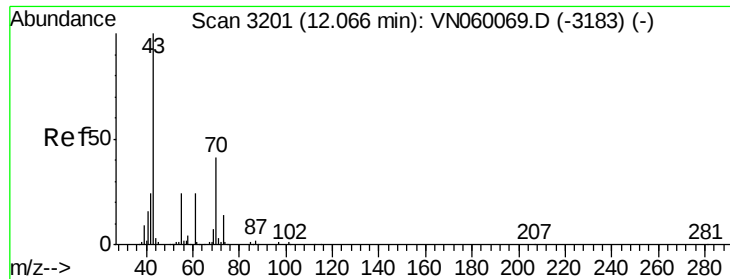
Abundance

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: 1.081 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060119.D

Acq: 17 Feb 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3488

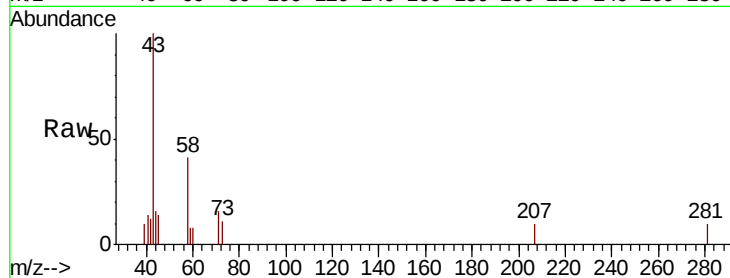
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

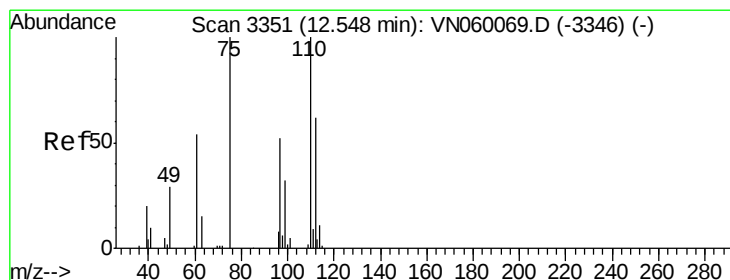
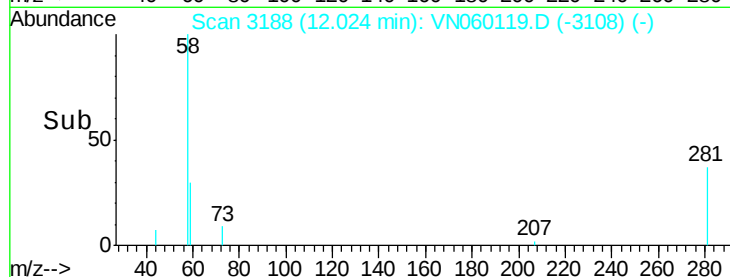
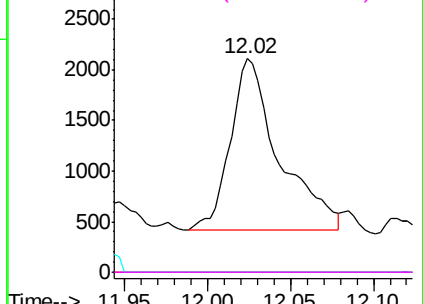


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.564 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060119.D

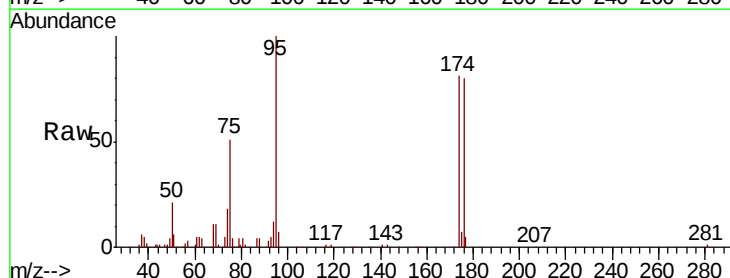
Acq: 17 Feb 2020 15:07

Tgt Ion: 75 Resp: 65478

Ion Ratio Lower Upper

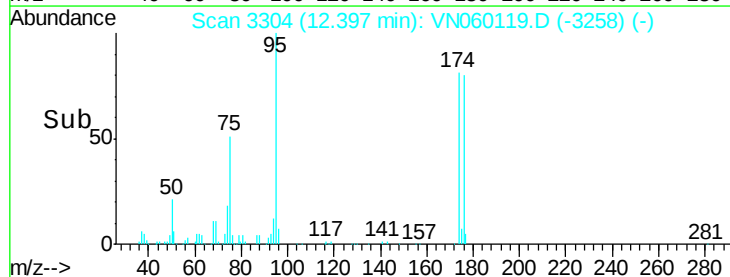
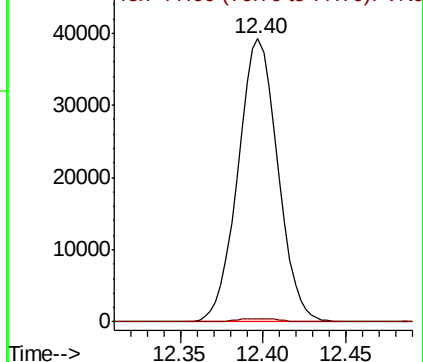
75 100

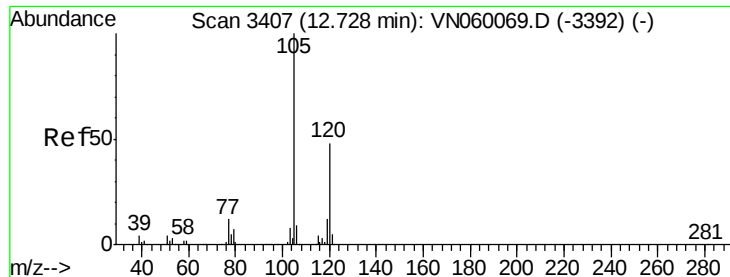
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.275 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060119.D

Acq: 17 Feb 2020 15:07

Instrument :

MSVOA_N

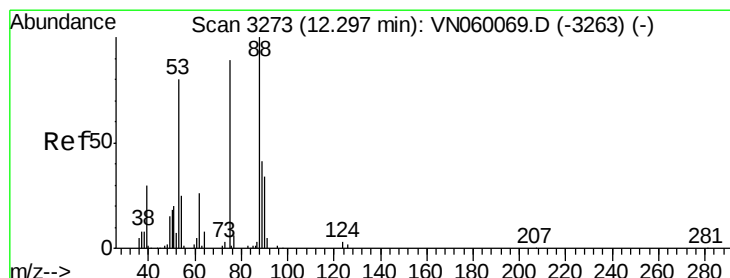
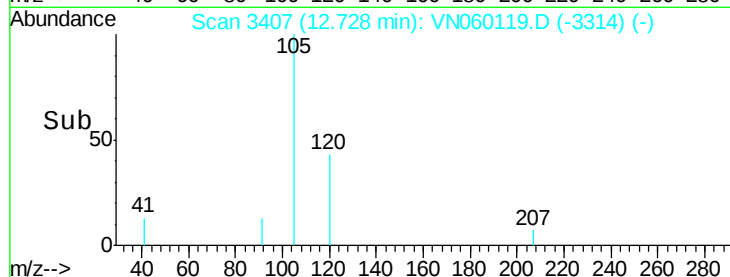
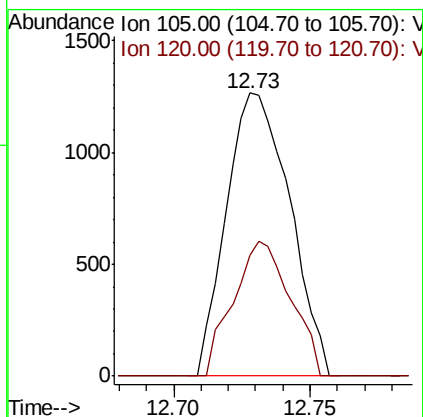
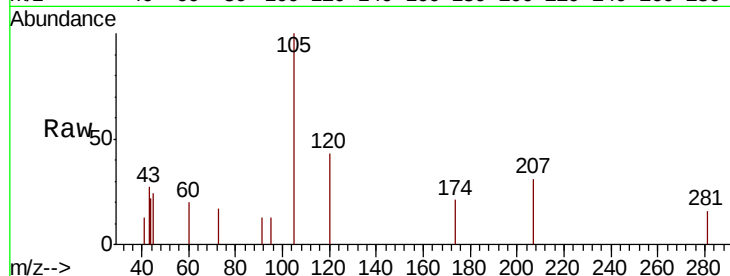
ClientSampled :

Tot Ion:105 Resp: 2045

Ion Ratio Lower Upper

105 100

120 43.0 24.3 72.9



#81

trans-1,4-Dichloro-2-butene

Concen: 69.938 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060119.D

Acq: 17 Feb 2020 15:07

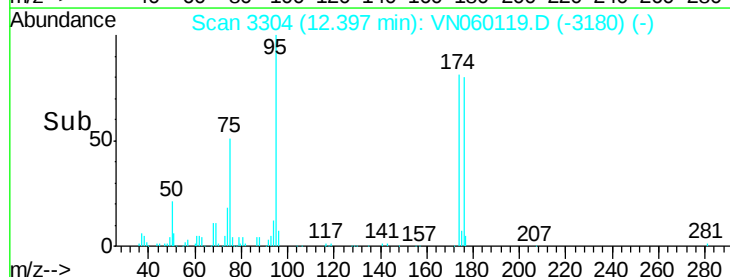
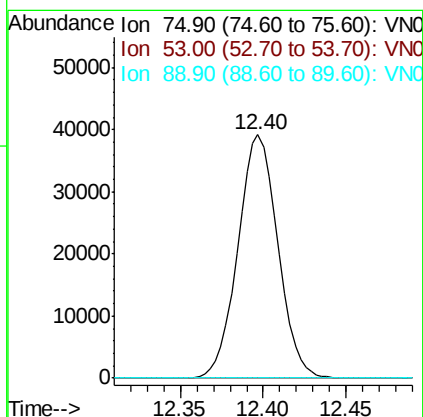
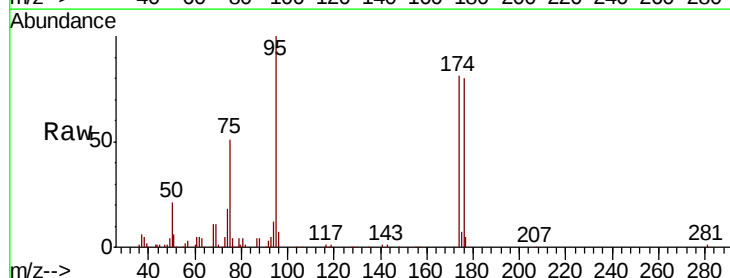
Tgt Ion: 75 Resp: 65478

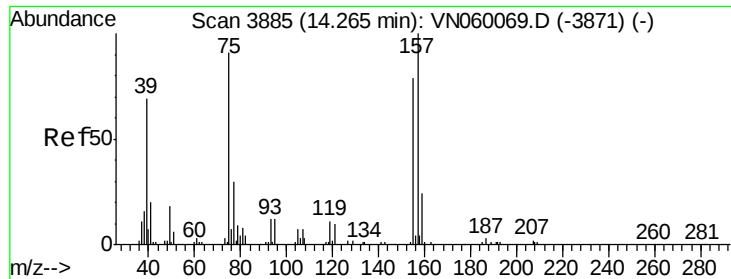
Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.0 37.0 55.4#





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.35 min Scan# 3913

Delta R.T. 0.09 min

Lab File: VN060119.D

Acq: 17 Feb 2020 15:07

Instrument :

MSVOA_N

ClientSampleId :

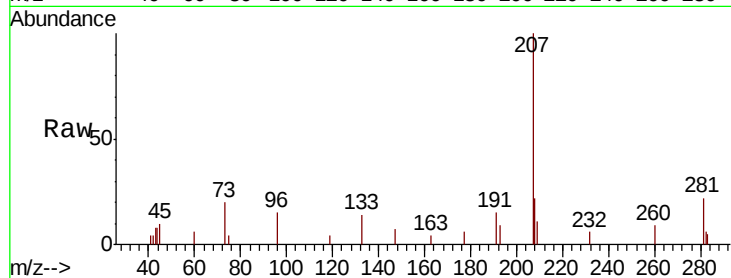
Tot Ion: 75 Resp: 121

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

