

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022620\
 Data File : VN060256.D
 Acq On : 26 Feb 2020 17:05
 Operator : JC/MD
 Sample : PB127076ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 27 04:35:26 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

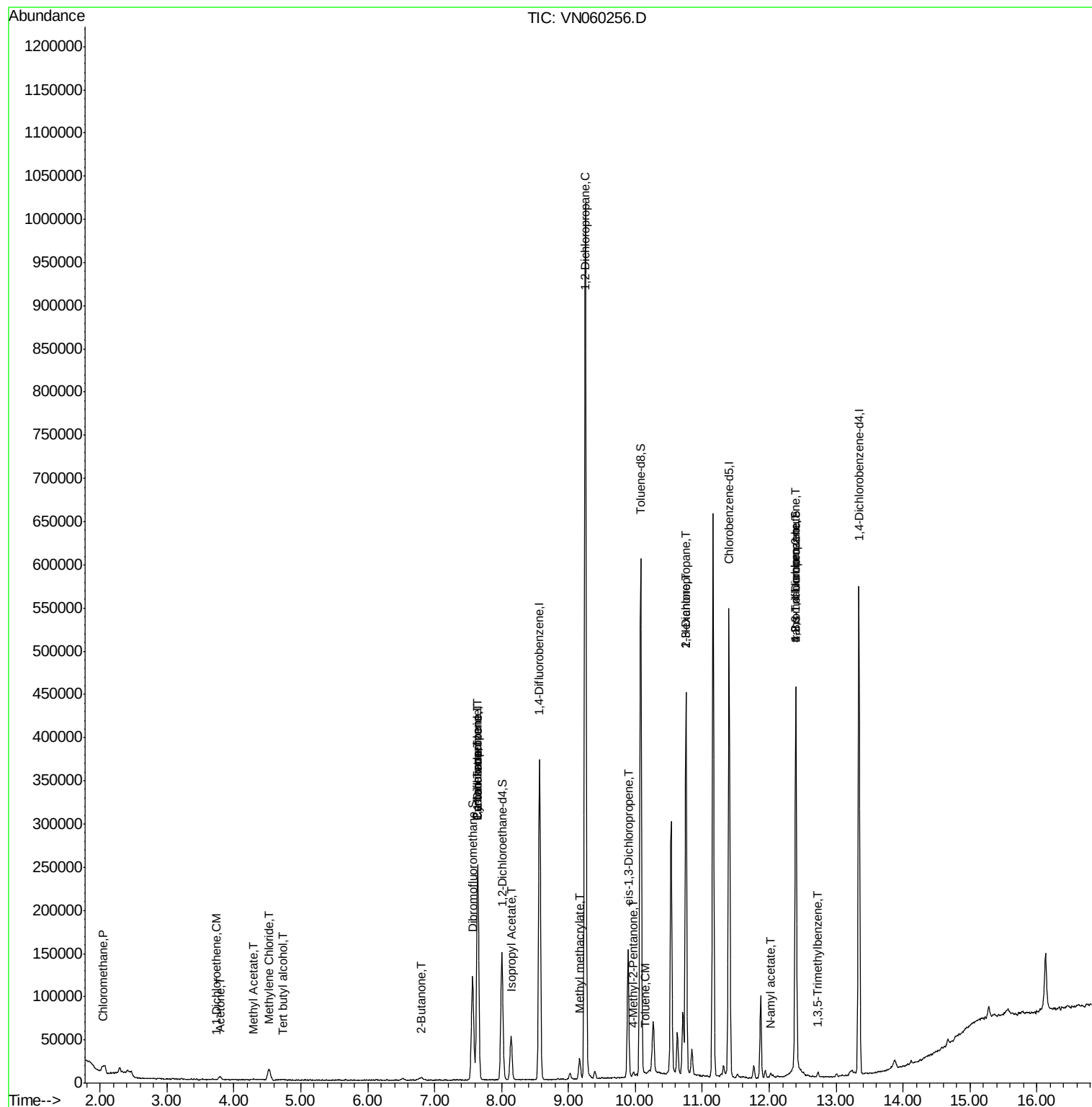
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	202658	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	326892	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	305112	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	147785	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	128407	52.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.14%	
35) Dibromofluoromethane	7.57	113	90795	45.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.36%	
50) Toluene-d8	10.08	98	399138	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
62) 4-Bromofluorobenzene	12.40	95	150064	51.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.22%	
Target Compounds				Qvalue		
3) Chloromethane	2.04	50	579	0.240	ug/l #	78
11) Tert butyl alcohol	4.73	59	566	1.534	ug/l #	72
12) 1,1-Dichloroethene	3.73	96	461	0.241	ug/l #	1
16) Acetone	3.79	43	5959	5.540	ug/l	95
18) Methyl Acetate	4.30	43	2053	1.016	ug/l	92
20) Methylene Chloride	4.53	84	9999	4.659	ug/l	94
25) 2-Butanone	6.81	43	4408	3.258	ug/l #	82
31) Cyclohexane	7.64	56	4377	1.255	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15437	5.098	ug/l #	49
38) Carbon Tetrachloride	7.64	117	19872	6.043	ug/l #	15
43) Isopropyl Acetate	8.14	43	61225	13.089	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	1254	0.564	ug/l #	43
48) Methyl methacrylate	9.16	41	3610	1.720	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	4027	1.487	ug/l	88
52) Toluene	10.15	92	1345	0.234	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	27187	7.160	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	4542	1.225	ug/l #	43
59) 2-Hexanone	10.75	43	65887	31.502	ug/l #	51
74) N-amyl acetate	12.02	43	4029	1.012	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	78171	27.647	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2624	0.286	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	78171	67.694	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.27	75	119	Below Cal	#	1

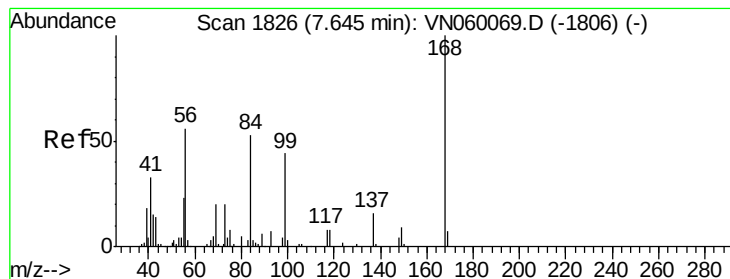
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Feb 12 14:12:21 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060256.D

Acq: 26 Feb 2020 17:05

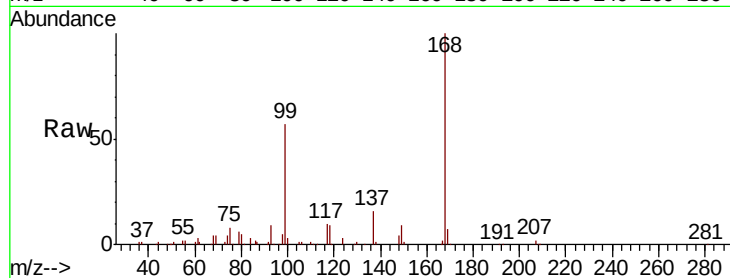
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 202658

Ion Ratio Lower Upper

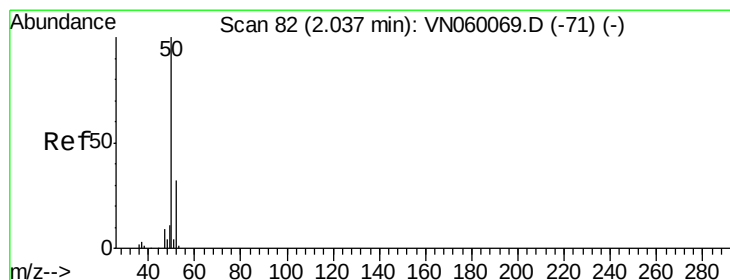
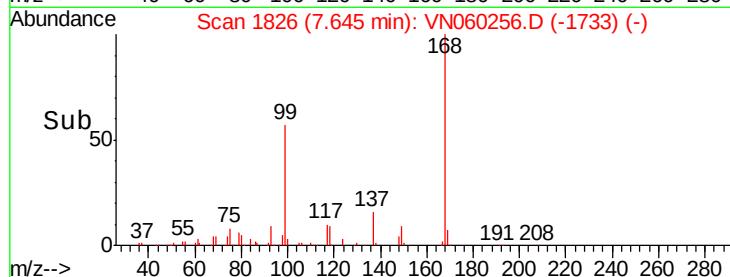
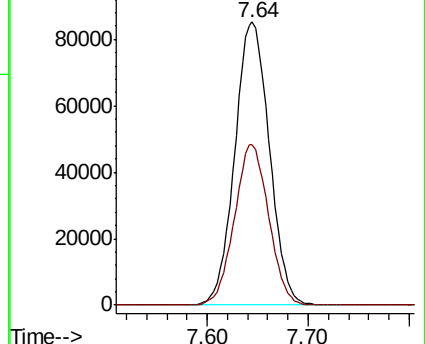
168 100

99 56.9 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.240 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN060256.D

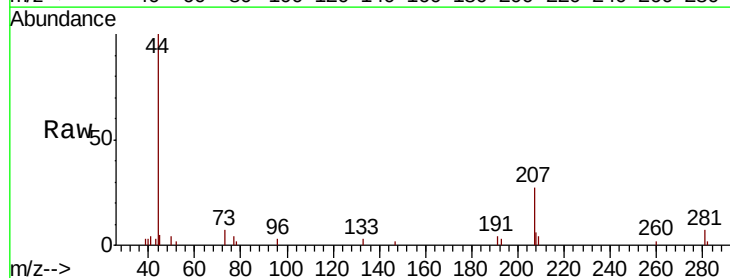
Acq: 26 Feb 2020 17:05

Tgt Ion: 50 Resp: 579

Ion Ratio Lower Upper

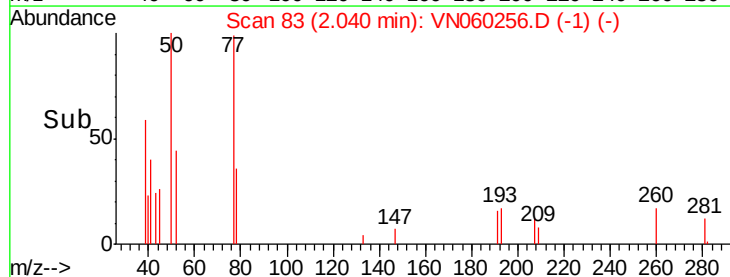
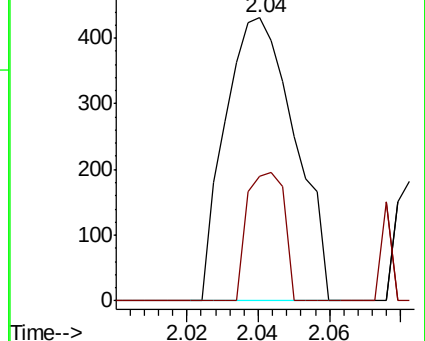
50 100

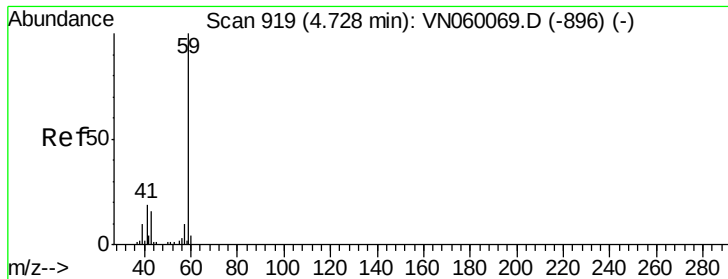
52 44.1 25.6 38.4#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



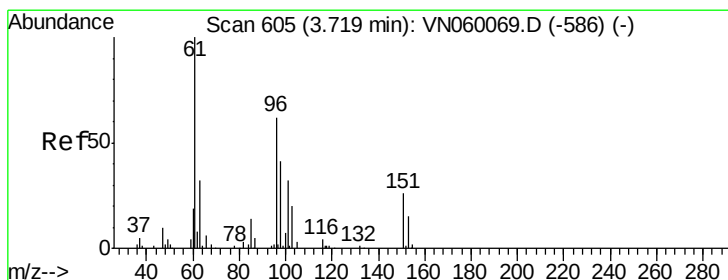
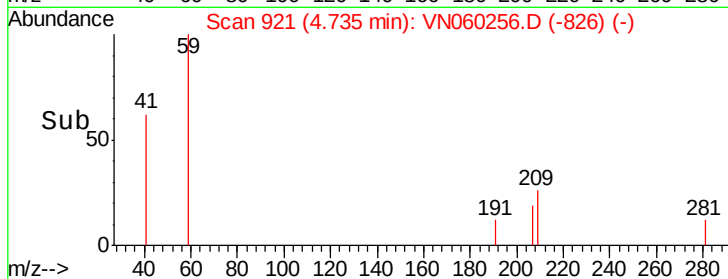
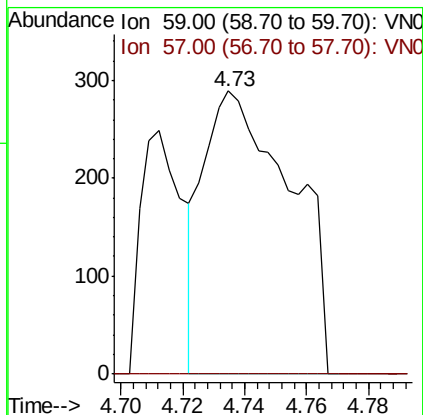
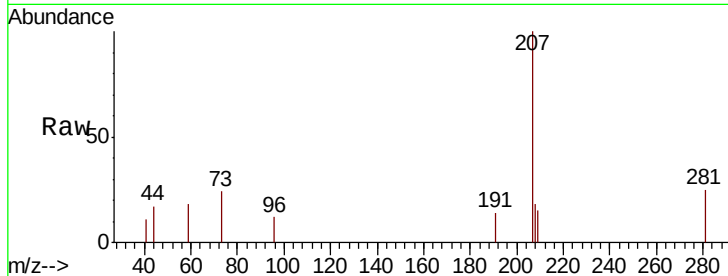


#11

Tert butyl alcohol
 Concen: 1.534 ug/l
 RT: 4.73 min Scan# 921
 Delta R.T. 0.01 min
 Lab File: VN060256.D
 Acq: 26 Feb 2020 17:05

Instrument :
 MSVOA_N
 ClientSampled :

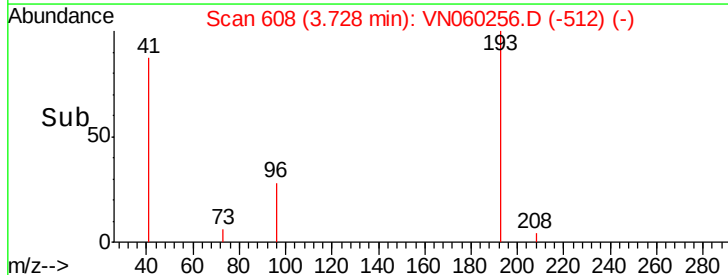
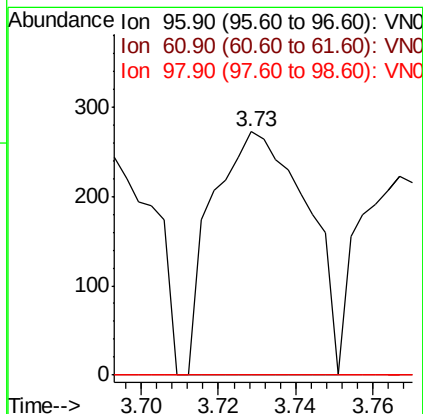
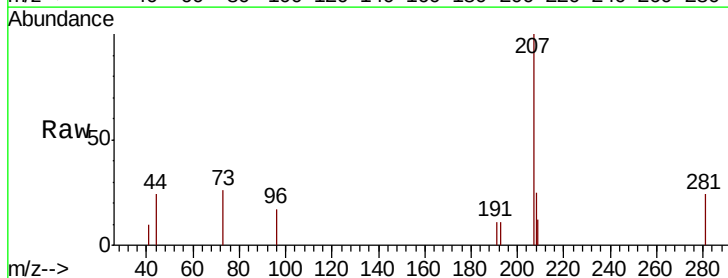
Tot Ion: 59 Resp: 566
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

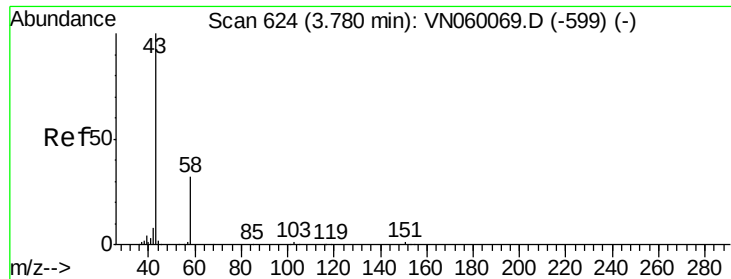


#12

1,1-Dichloroethene
 Concen: 0.241 ug/l
 RT: 3.73 min Scan# 608
 Delta R.T. 0.01 min
 Lab File: VN060256.D
 Acq: 26 Feb 2020 17:05

Tgt Ion: 96 Resp: 461
 Ion Ratio Lower Upper
 96 100
 61 0.0 128.3 192.5#
 98 0.0 52.2 78.4#

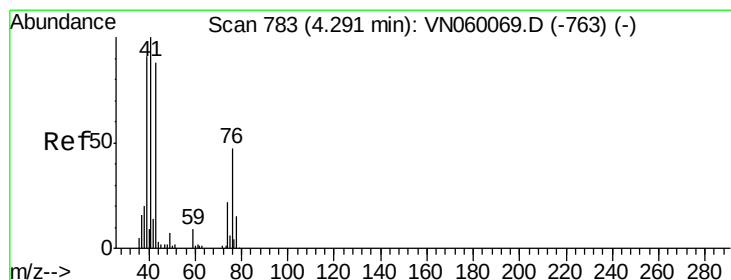
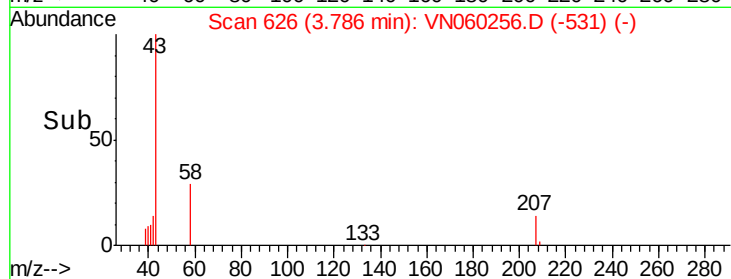
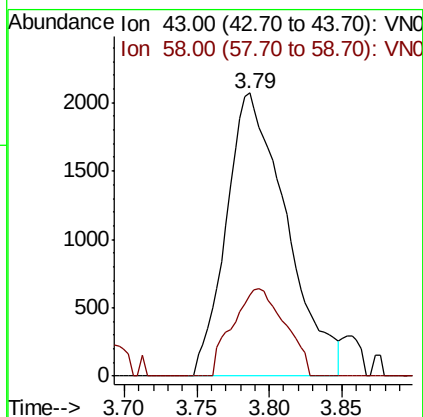
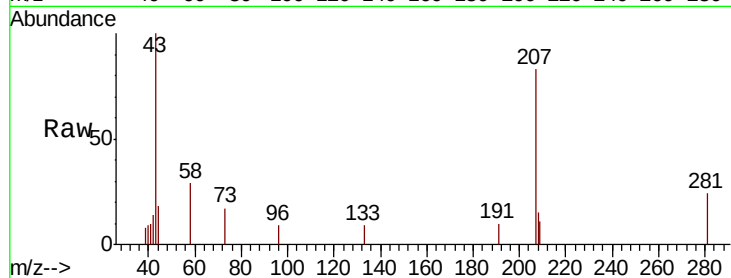




#16
Acetone
Concen: 5.540 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

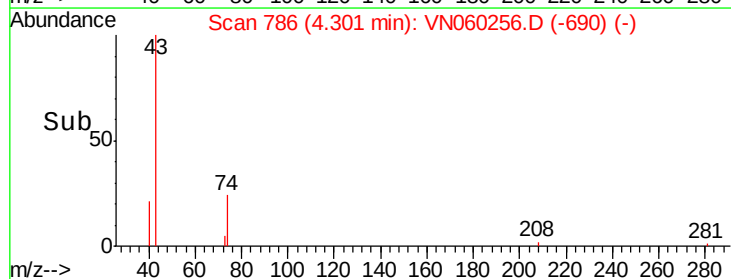
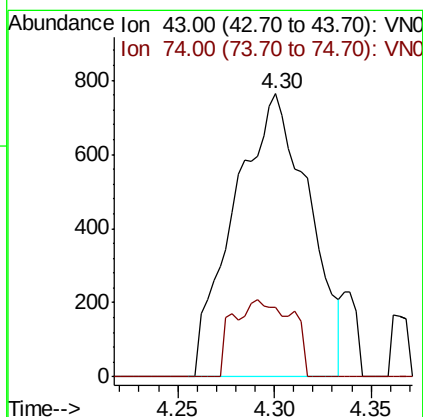
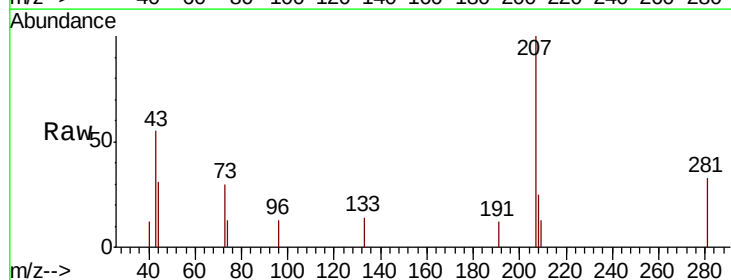
Instrument :
MSVOA_N
ClientSampled :

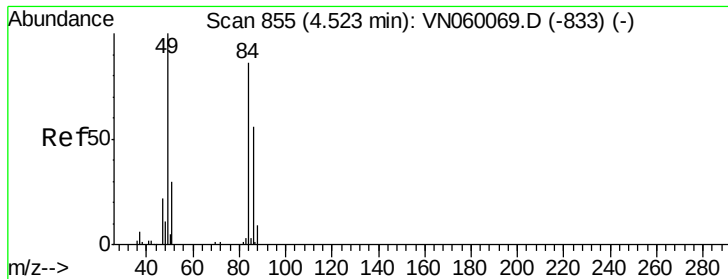
Tot Ion: 43 Resp: 5959
Ion Ratio Lower Upper
43 100
58 28.8 25.2 37.8



#18
Methyl Acetate
Concen: 1.016 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Tgt Ion: 43 Resp: 2053
Ion Ratio Lower Upper
43 100
74 21.4 20.3 30.5

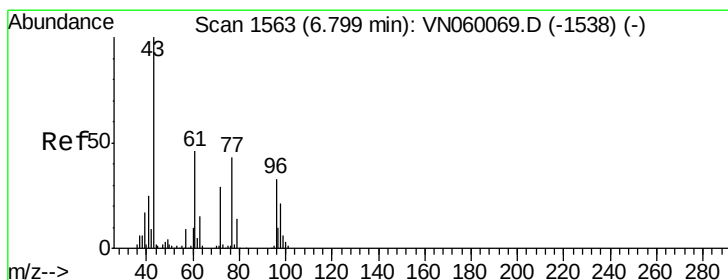
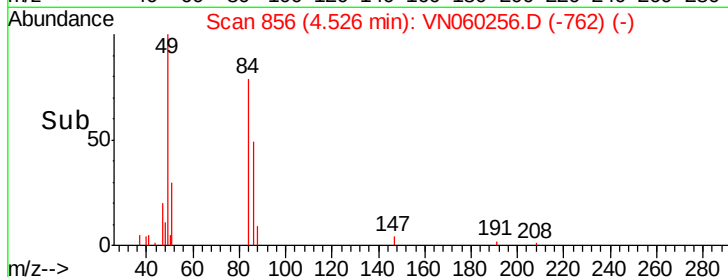
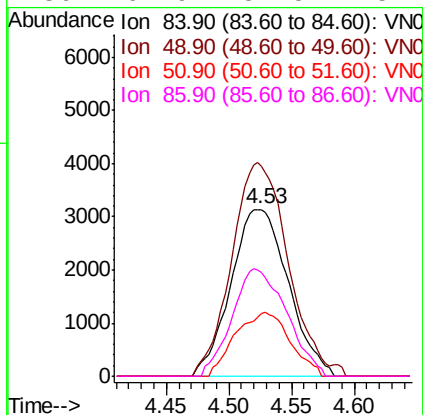
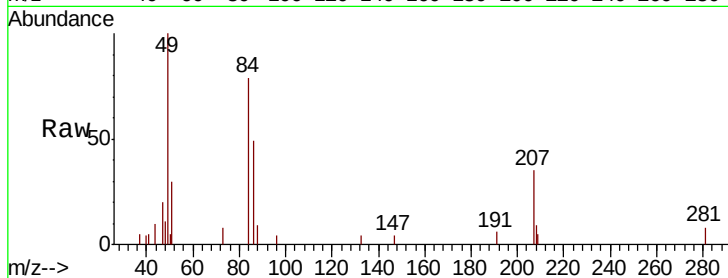




#20
Methylene Chloride
Concen: 4.659 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

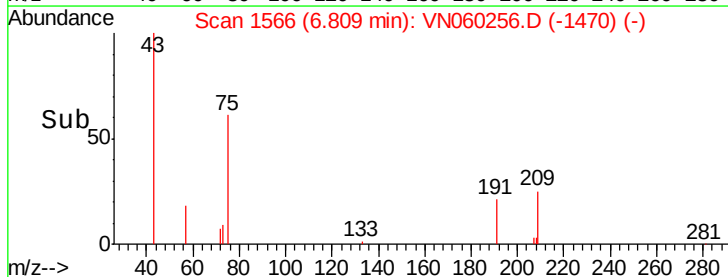
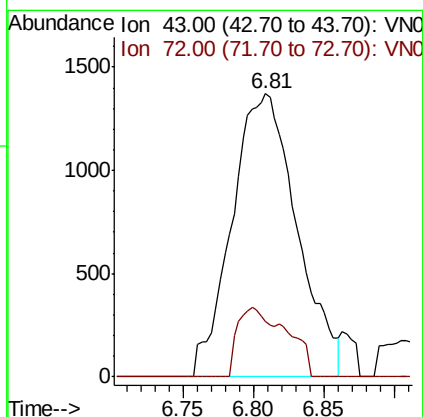
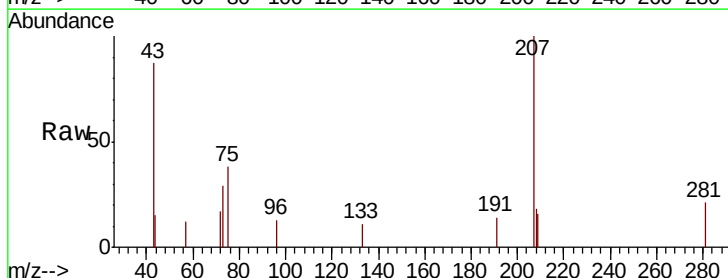
Instrument :
MSVOA_N
ClientSampled :

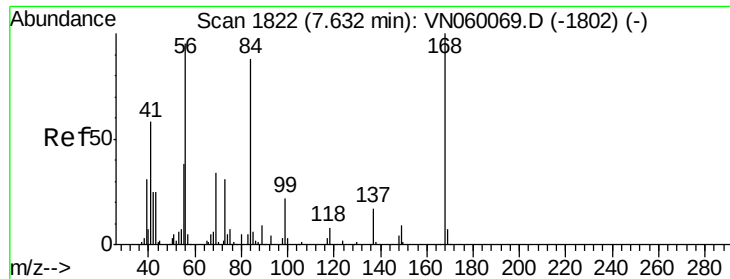
Tot Ion: 84 Resp: 9999
Ion Ratio Lower Upper
84 100
49 125.9 93.4 140.0
51 37.4 28.4 42.6
86 61.9 52.5 78.7



#25
2-Butanone
Concen: 3.258 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Tgt Ion: 43 Resp: 4408
Ion Ratio Lower Upper
43 100
72 19.5 23.3 34.9#

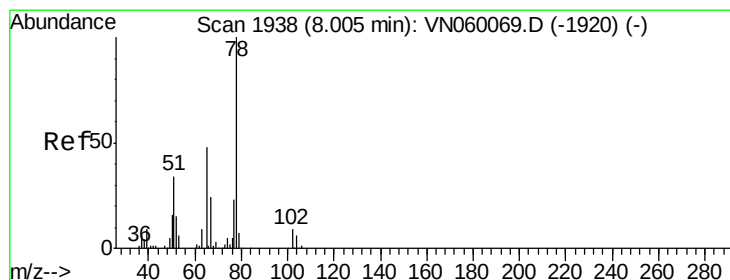
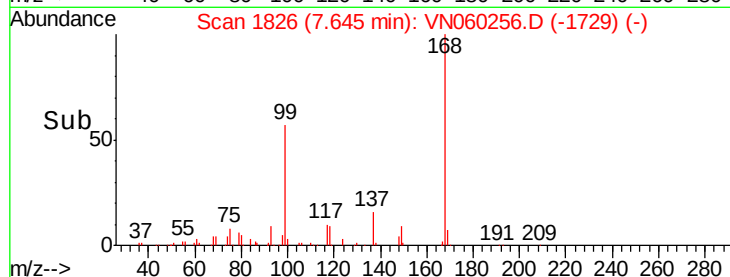
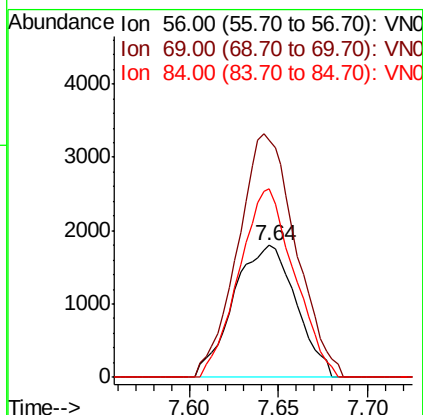
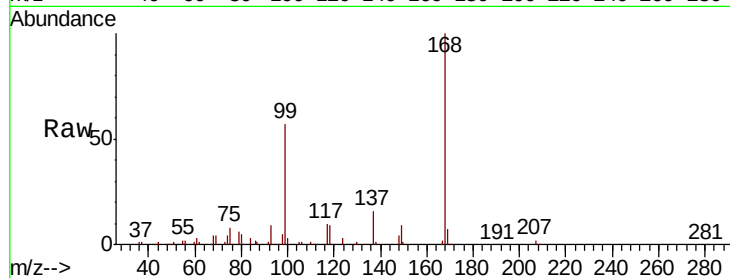




#31
Cyclohexane
Concen: 1.255 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

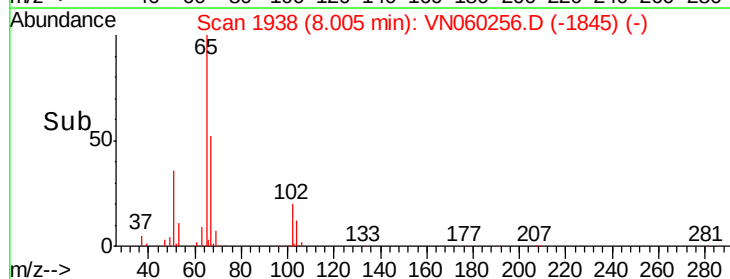
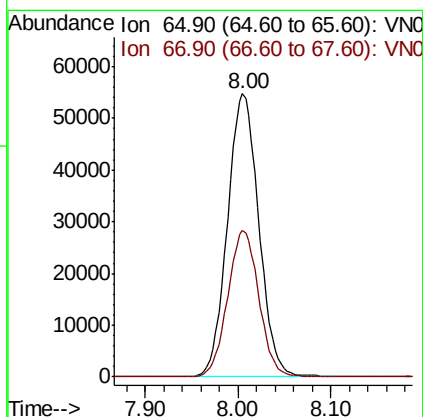
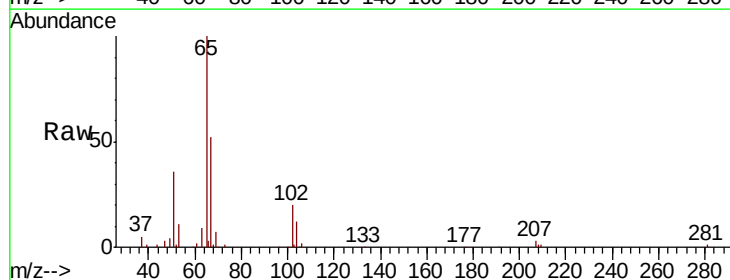
Instrument :
MSVOA_N
ClientSampleId :

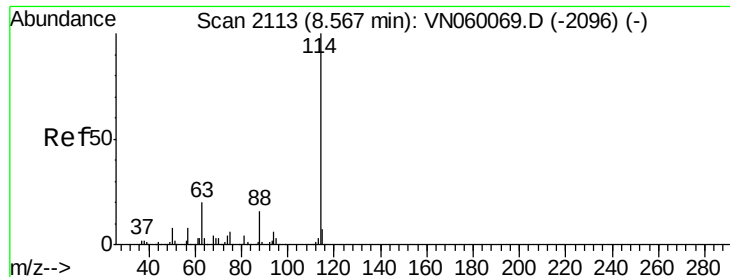
Tot Ion: 56 Resp: 4377
Ion Ratio Lower Upper
56 100
69 180.1 28.3 42.5#
84 142.7 72.6 108.8#



#33
1,2-Dichloroethane-d4
Concen: 52.071 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Tgt Ion: 65 Resp: 128407
Ion Ratio Lower Upper
65 100
67 51.3 0.0 104.0

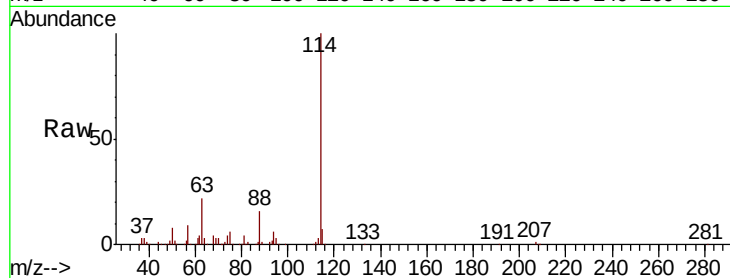




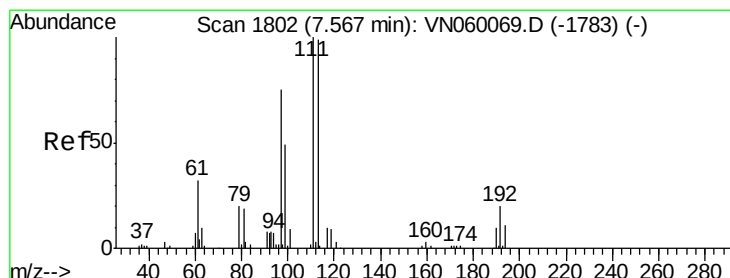
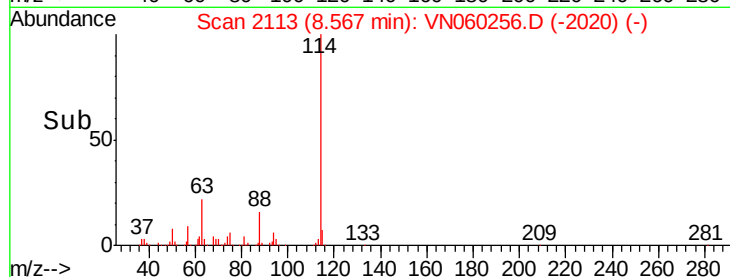
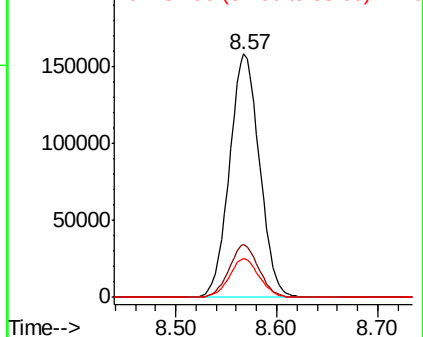
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060256.D
 Acq: 26 Feb 2020 17:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 326892
 Ion Ratio Lower Upper
 114 100
 63 21.7 0.0 40.0
 88 15.8 0.0 31.6

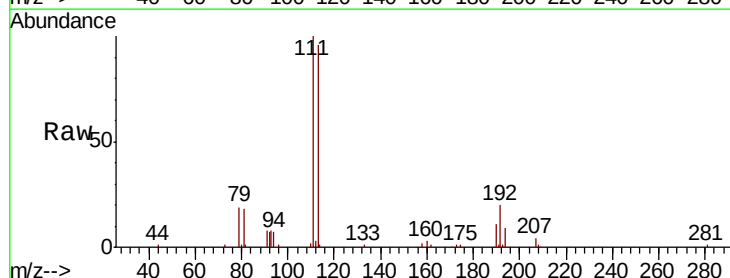


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

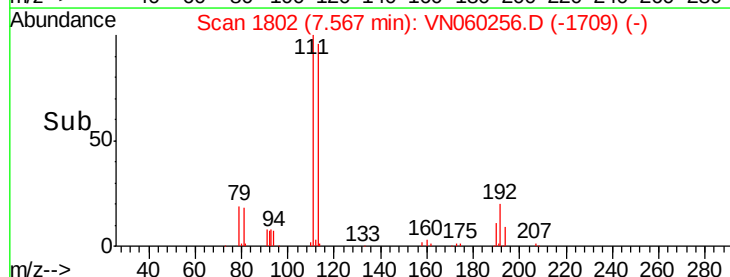
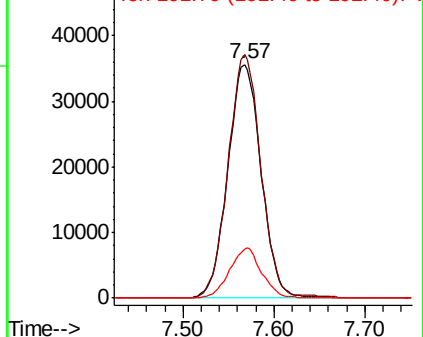


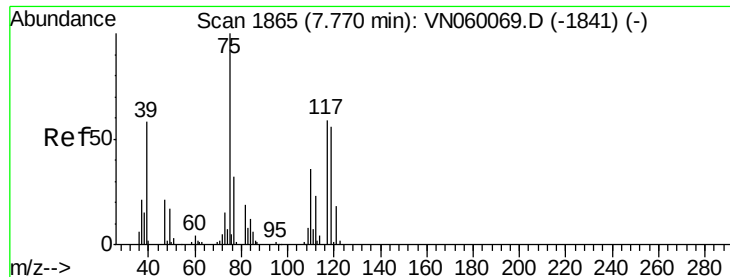
#35
 Dibromofluoromethane
 Concen: 45.185 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060256.D
 Acq: 26 Feb 2020 17:05

Tgt Ion:113 Resp: 90795
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.4 122.2
 192 20.3 16.2 24.2



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

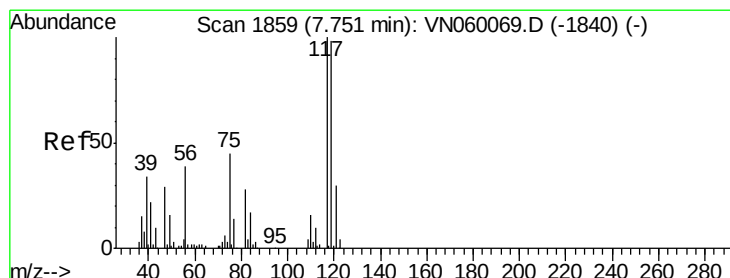
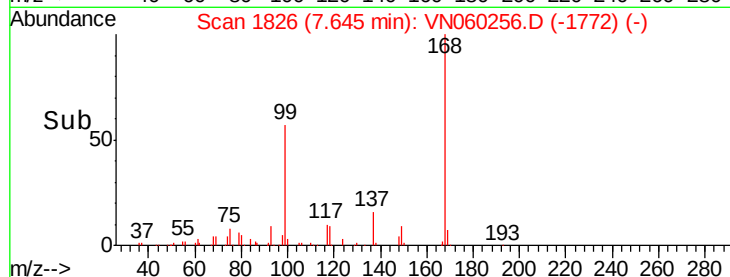
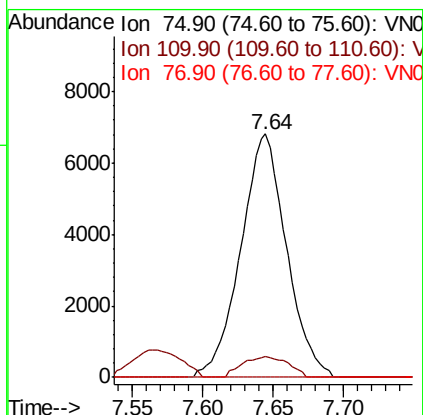
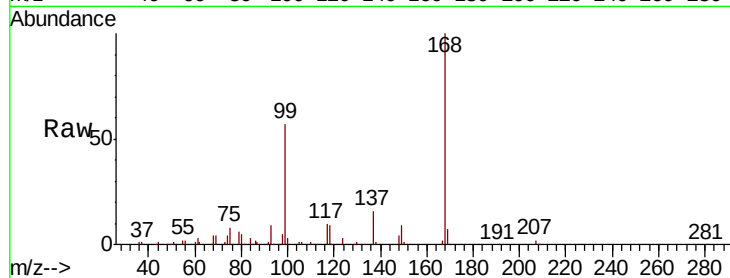




#36
 1,1-Dichloropropene
 Concen: 5.098 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060256.D
 Acq: 26 Feb 2020 17:05

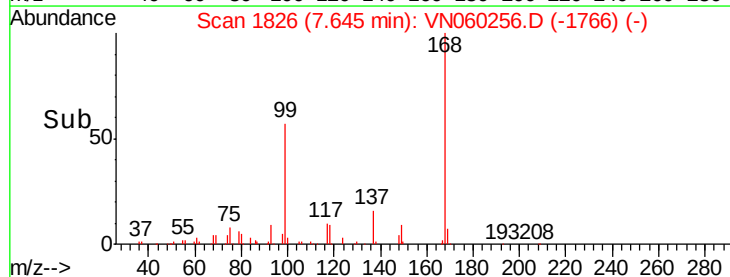
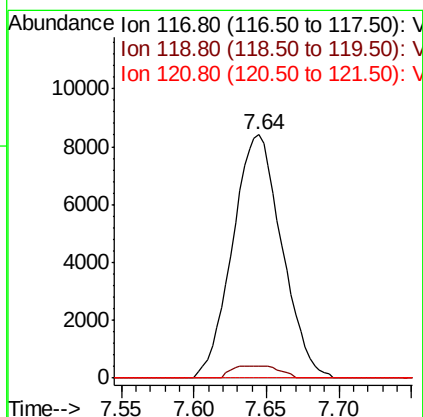
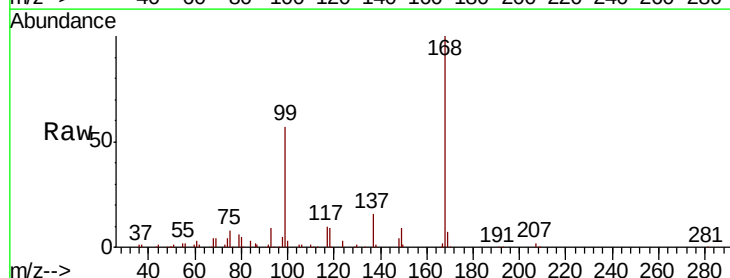
Instrument :
 MSVOA_N
 ClientSampleId :

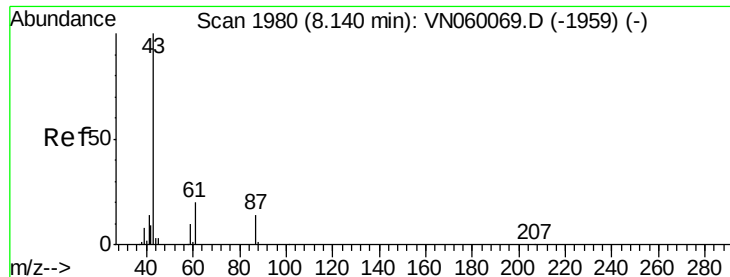
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.6	18.1	54.3#
77	0.0	25.1	37.7#



#38
 Carbon Tetrachloride
 Concen: 6.043 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060256.D
 Acq: 26 Feb 2020 17:05

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	78.2	117.4#
121	0.0	24.2	36.2#





#43

Isopropyl Acetate

Concen: 13.089 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060256.D

Acq: 26 Feb 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

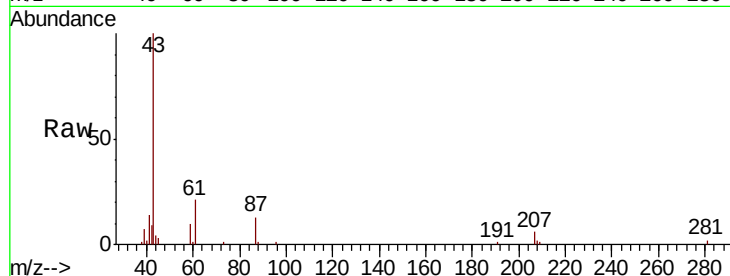
Tot Ion: 43 Resp: 61225

Ion Ratio Lower Upper

43 100

61 19.4 21.8 32.6#

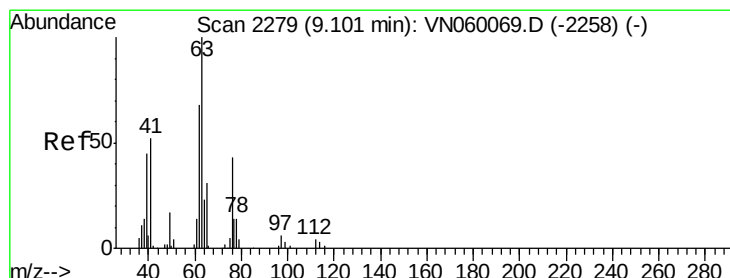
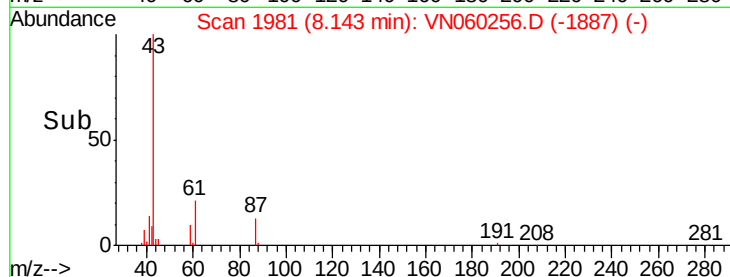
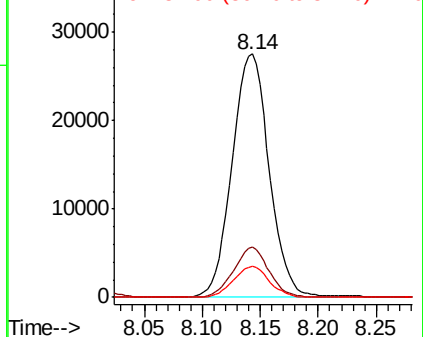
87 12.2 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.564 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN060256.D

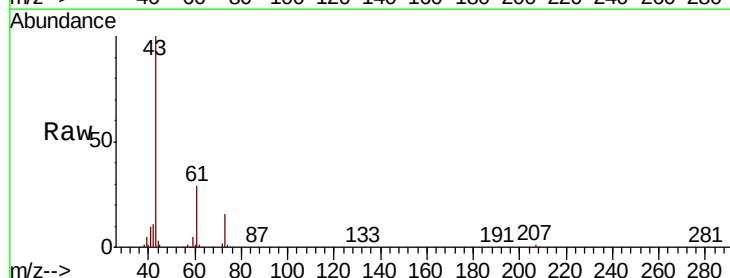
Acq: 26 Feb 2020 17:05

Tgt Ion: 63 Resp: 1254

Ion Ratio Lower Upper

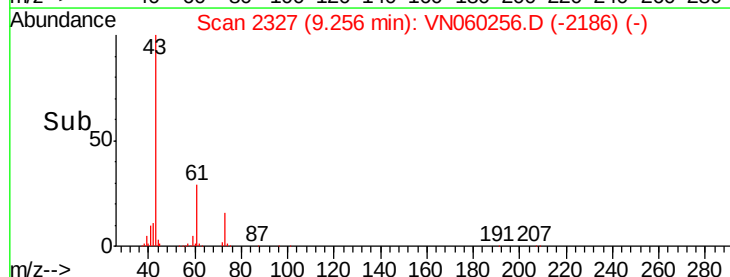
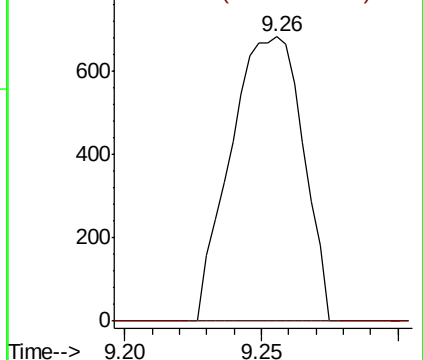
63 100

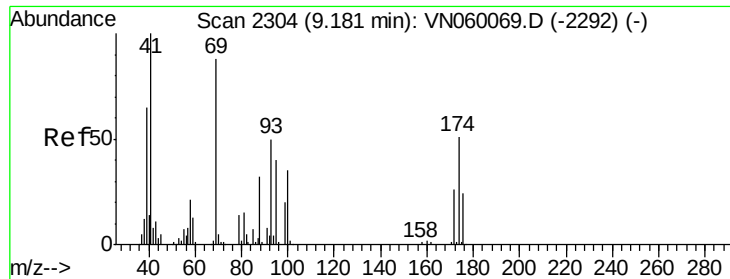
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

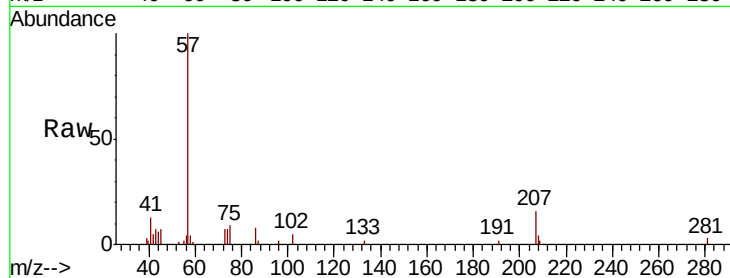




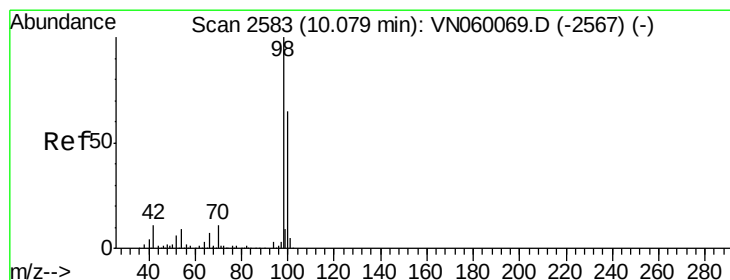
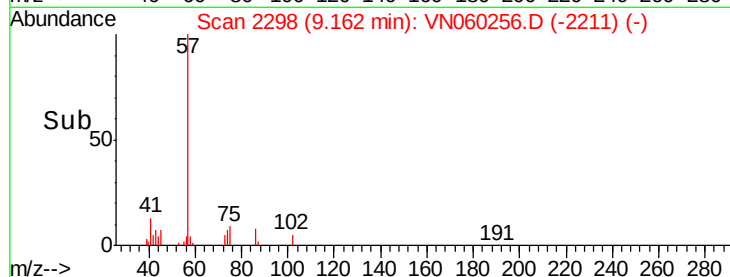
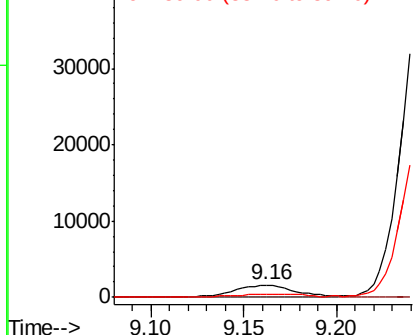
#48
Methvl methacrylate
Concen: 1.720 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 3610
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#

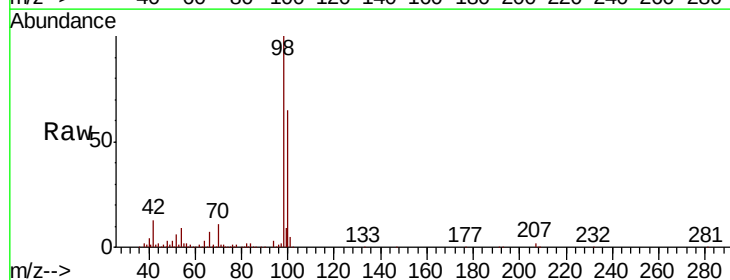


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

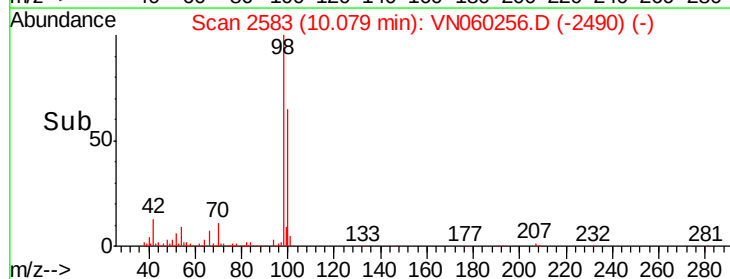
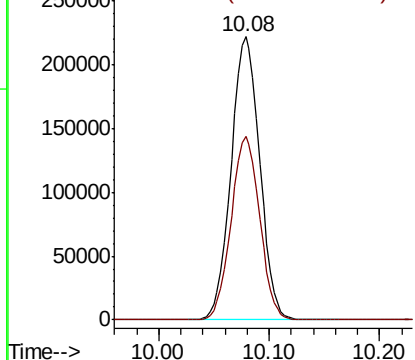


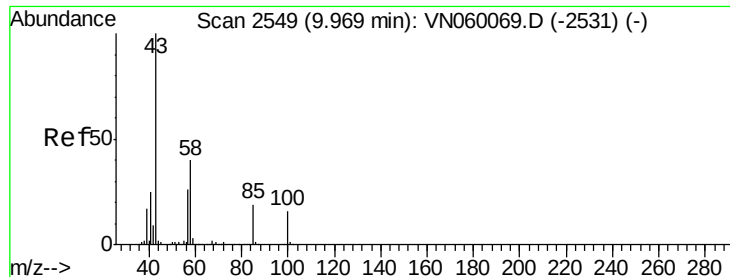
#50
Toluene-d8
Concen: 50.441 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Tgt Ion: 98 Resp: 399138
Ion Ratio Lower Upper
98 100
100 64.7 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

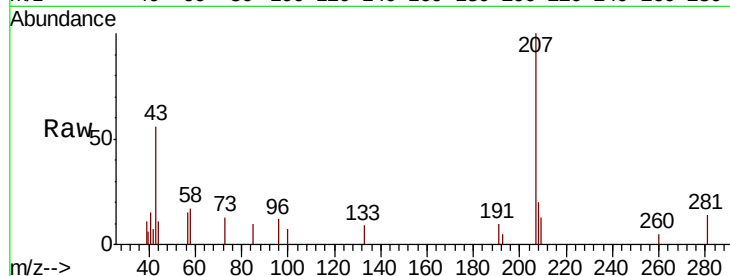




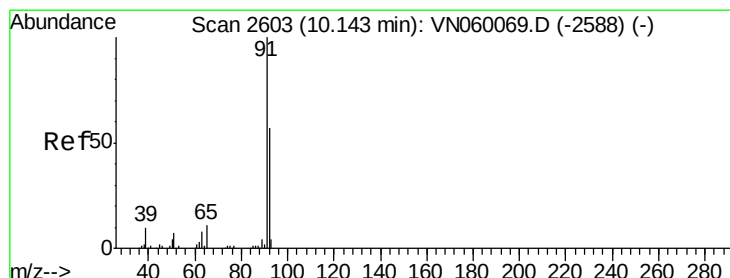
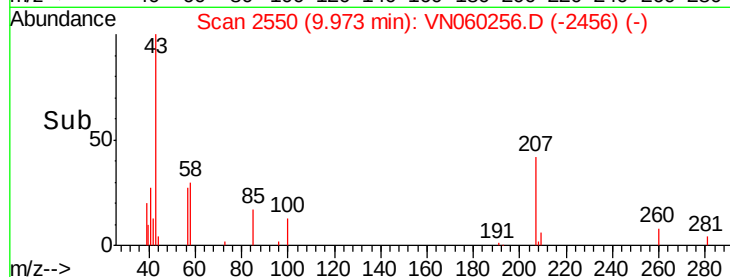
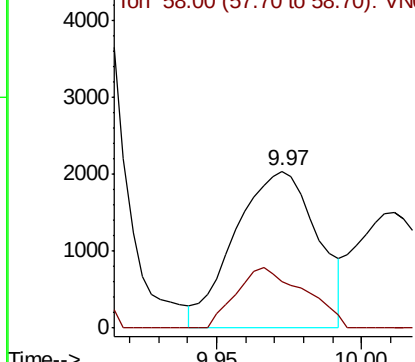
#51
4-Methyl-2-Pentanone
Concen: 1.487 ug/l
RT: 9.97 min Scan# 2550
Delta R.T. 0.00 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 4027
Ion Ratio Lower Upper
43 100
58 32.3 31.8 47.8

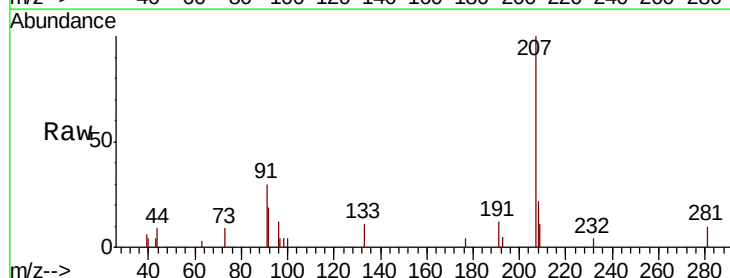


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

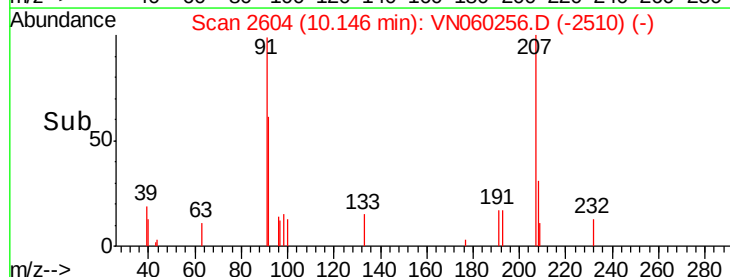
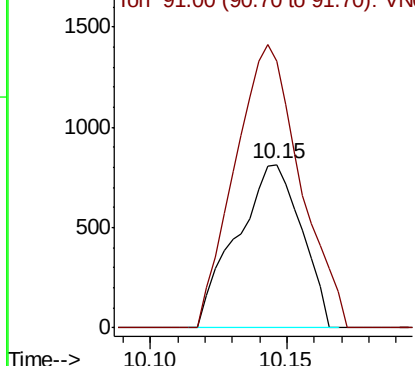


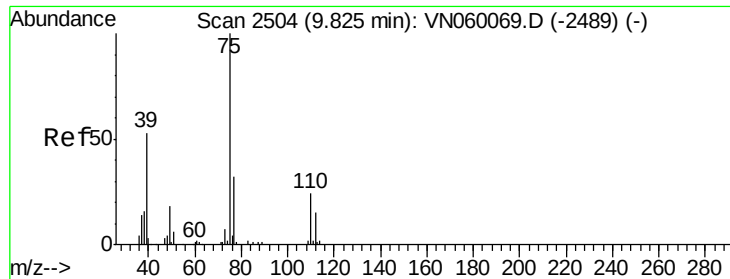
#52
Toluene
Concen: 0.234 ug/l
RT: 10.15 min Scan# 2604
Delta R.T. 0.00 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Tgt Ion: 92 Resp: 1345
Ion Ratio Lower Upper
92 100
91 174.1 140.9 211.3



Abundance Ion 92.00 (91.70 to 92.70): VN0
Ion 91.00 (90.70 to 91.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 7.160 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060256.D

Acq: 26 Feb 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

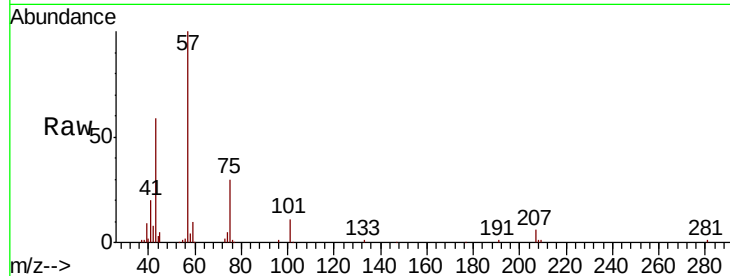
Tot Ion: 75 Resp: 27187

Ion Ratio Lower Upper

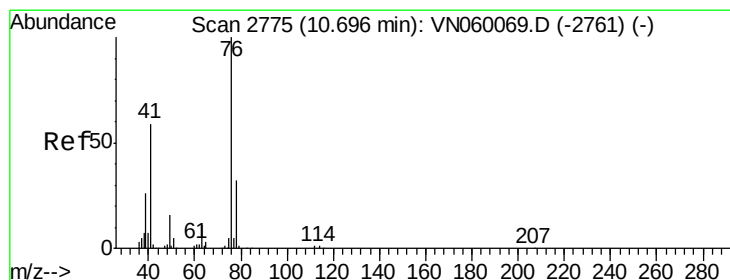
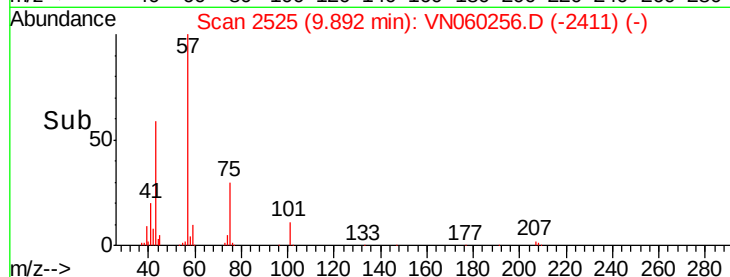
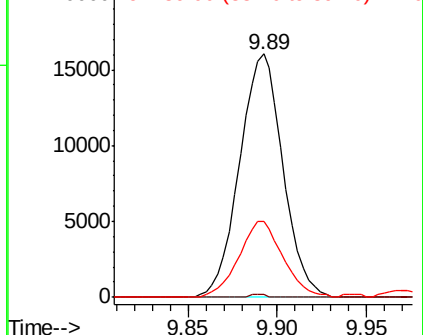
75 100

77 1.0 25.6 38.4#

39 31.1 42.2 63.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.225 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060256.D

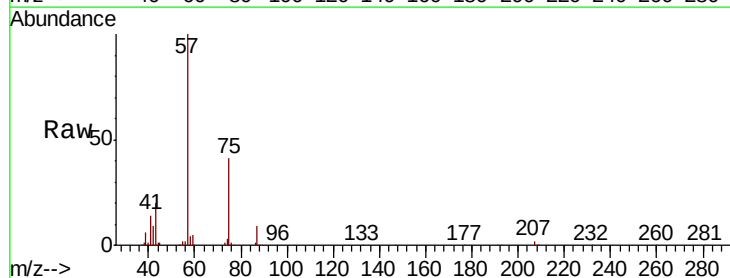
Acq: 26 Feb 2020 17:05

Tgt Ion: 76 Resp: 4542

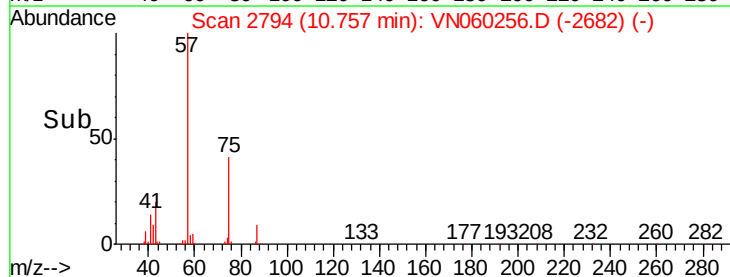
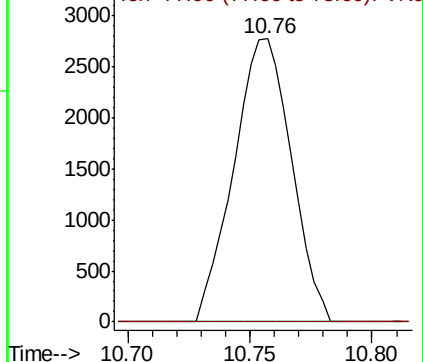
Ion Ratio Lower Upper

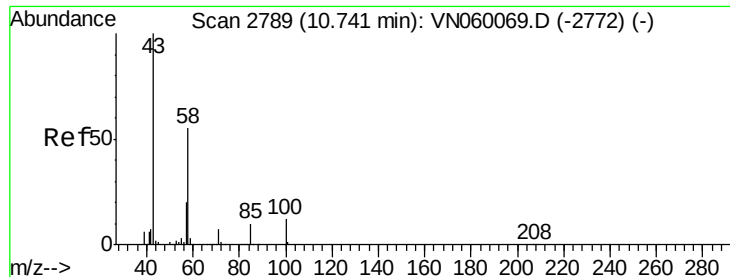
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

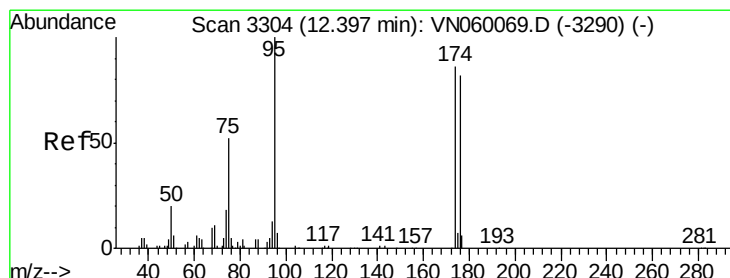
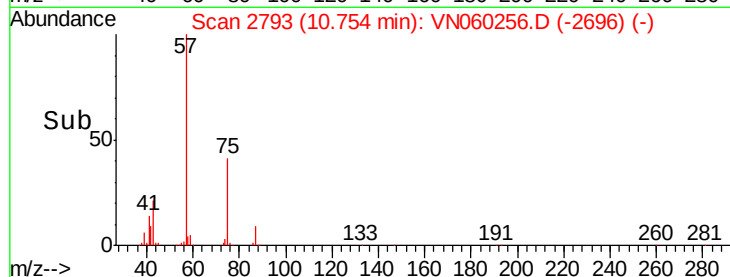
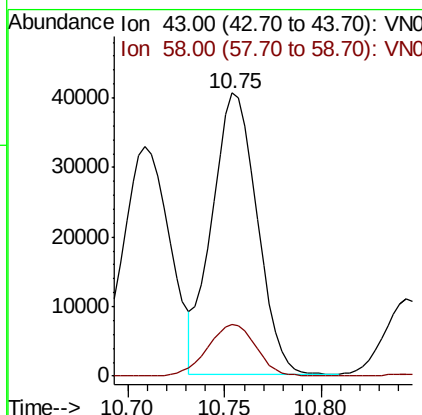
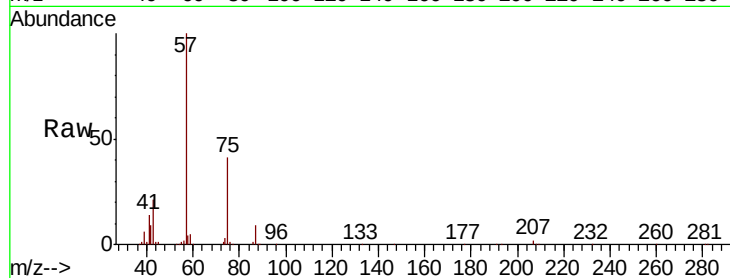




#59
2-Hexanone
Concen: 31.502 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

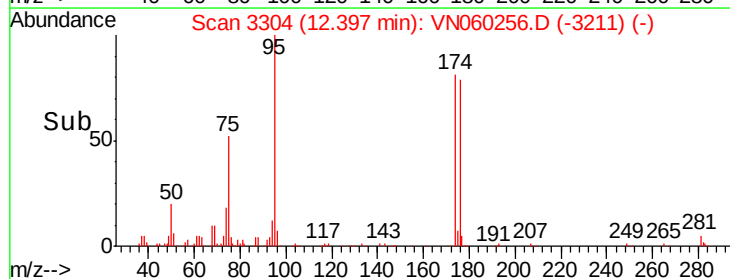
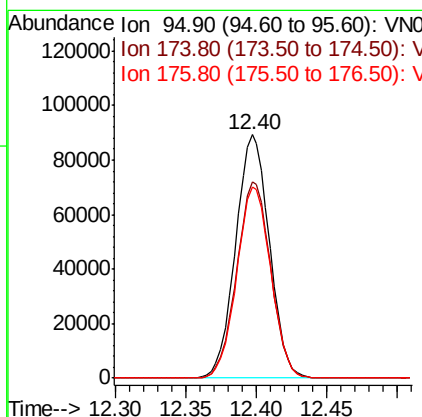
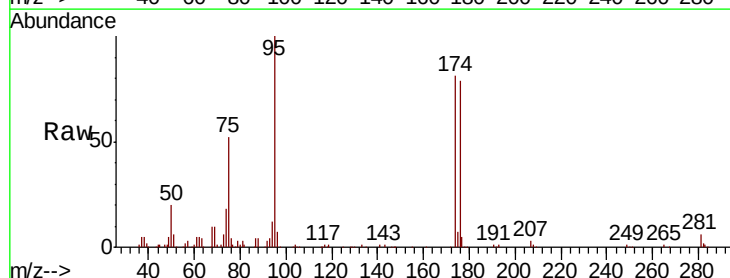
Instrument :
MSVOA_N
ClientSampled :

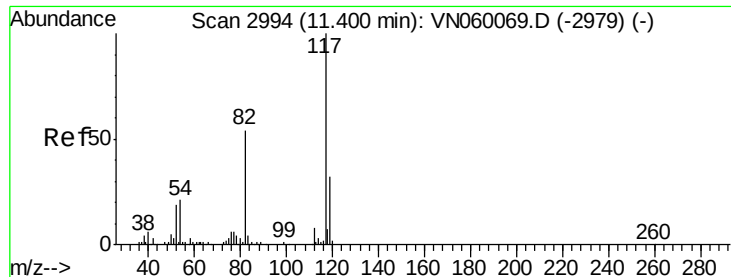
Tot Ion: 43 Resp: 65887
Ion Ratio Lower Upper
43 100
58 19.6 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 51.610 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Tgt Ion: 95 Resp: 150064
Ion Ratio Lower Upper
95 100
174 80.9 0.0 169.8
176 79.1 0.0 164.8

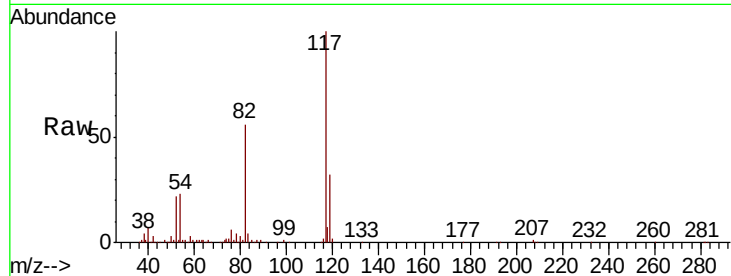




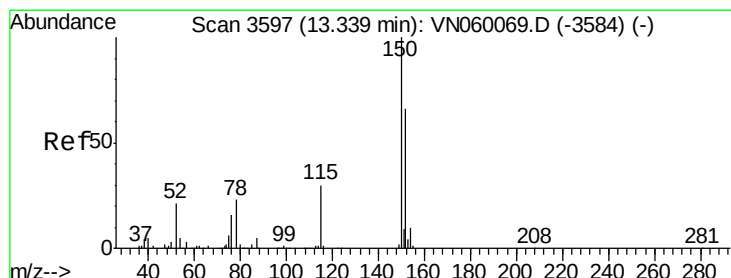
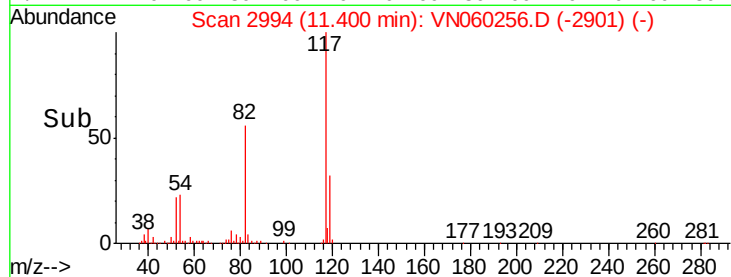
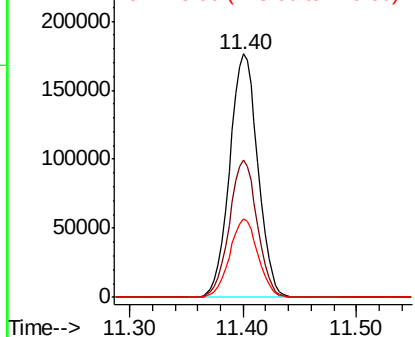
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 305112
Ion Ratio Lower Upper
117 100
82 56.4 43.4 65.0
119 32.0 25.8 38.6

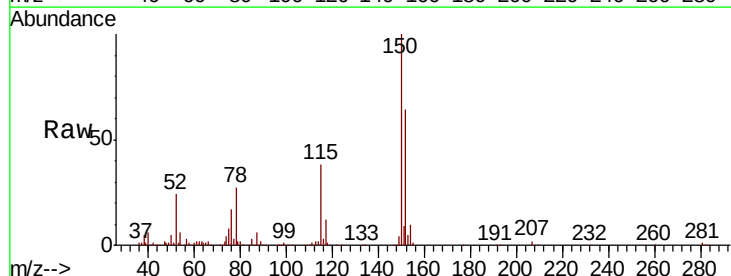


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

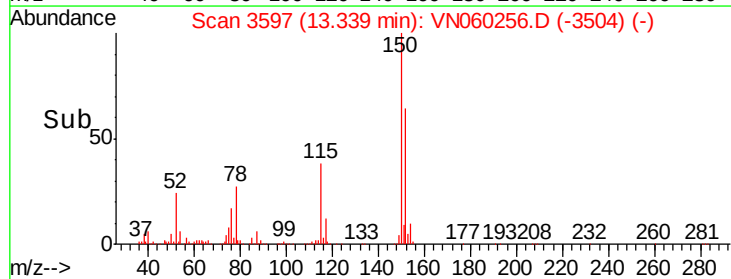
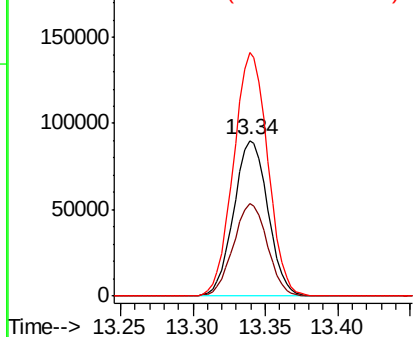


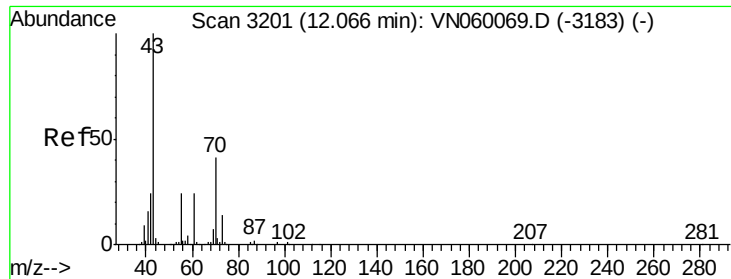
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN060256.D
Acq: 26 Feb 2020 17:05

Tgt Ion:152 Resp: 147785
Ion Ratio Lower Upper
152 100
115 59.3 28.9 86.8
150 157.1 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: 1.012 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060256.D

Acq: 26 Feb 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4029

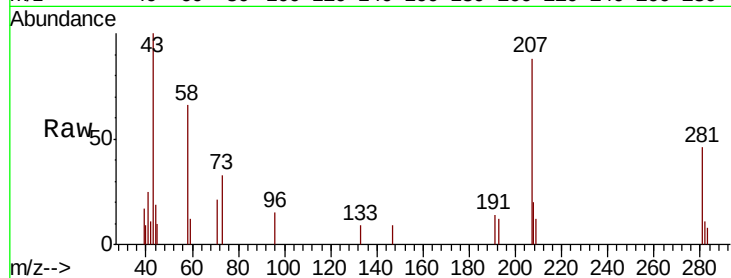
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

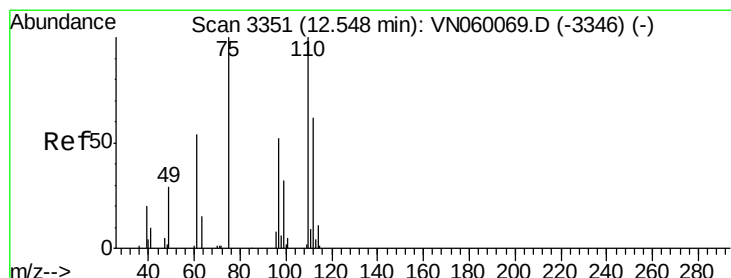
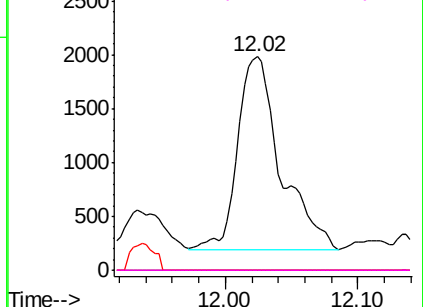
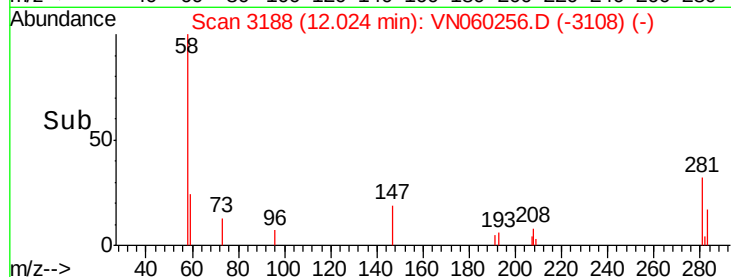


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.647 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060256.D

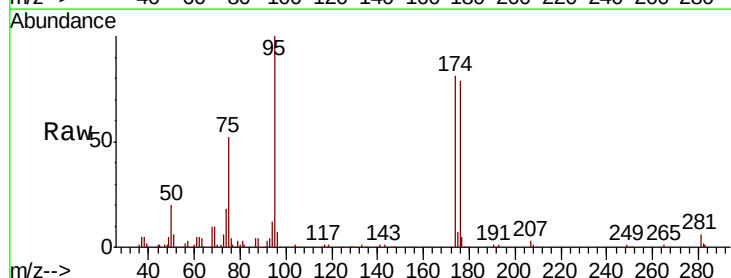
Acq: 26 Feb 2020 17:05

Tgt Ion: 75 Resp: 78171

Ion Ratio Lower Upper

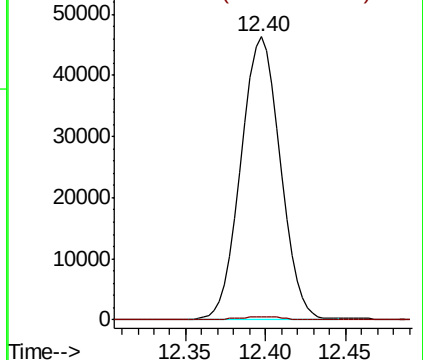
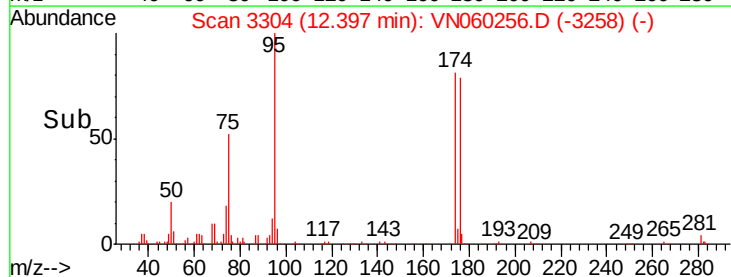
75 100

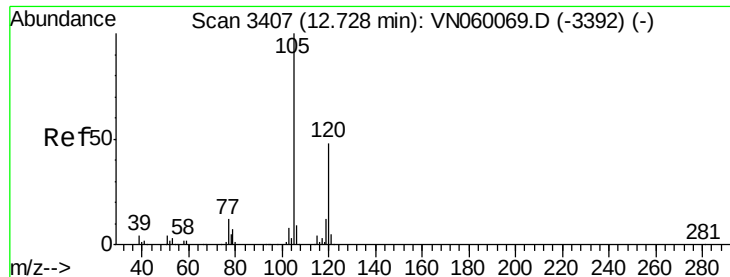
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

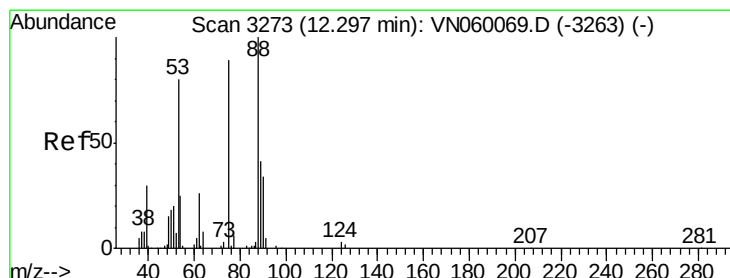
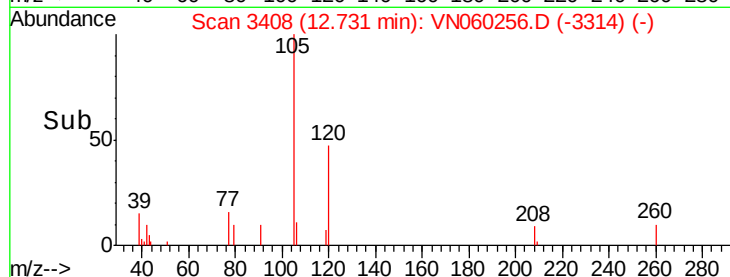
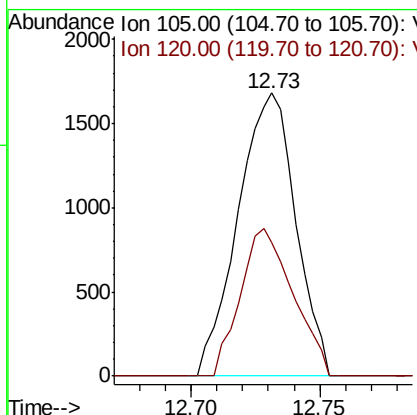
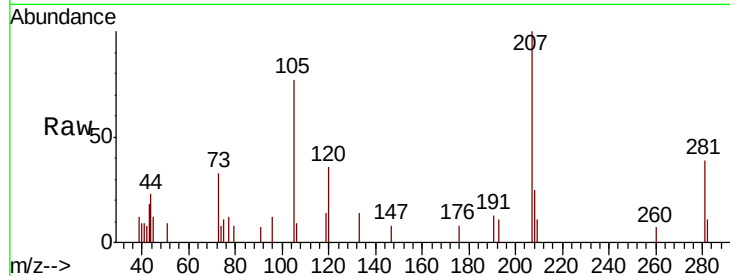




#80
 1,3,5-Trimethylbenzene
 Concen: 0.286 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN060256.D
 Acq: 26 Feb 2020 17:05

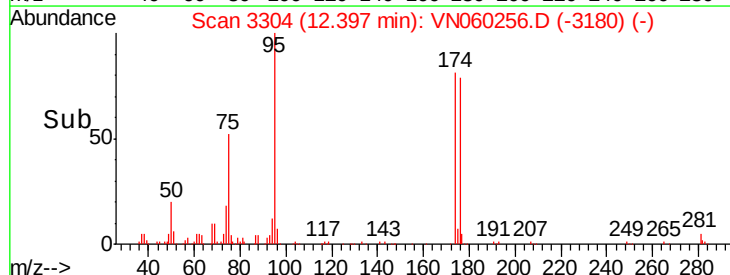
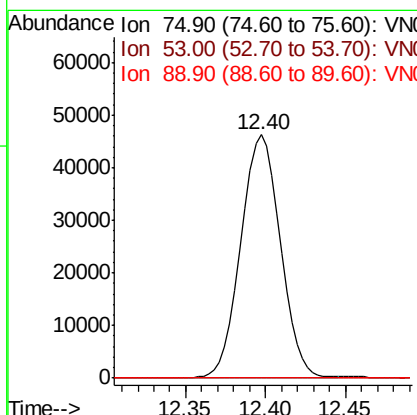
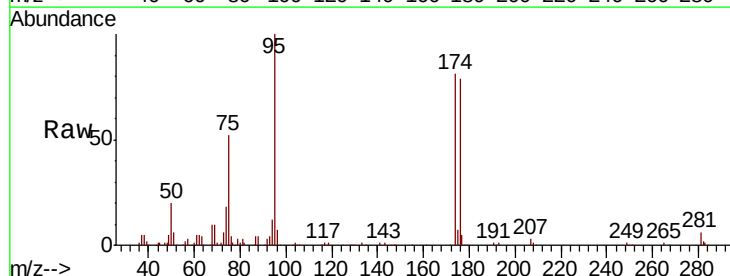
Instrument :
 MSVOA_N
 ClientSampleId :

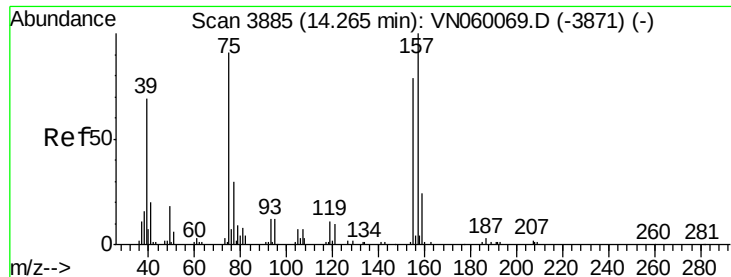
Tot Ion:105 Resp: 2624
 Ion Ratio Lower Upper
 105 100
 120 47.7 24.3 72.9



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.694 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060256.D
 Acq: 26 Feb 2020 17:05

Tgt Ion: 75 Resp: 78171
 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: 14.27 min Scan# 3887

Delta R.T. 0.01 min

Lab File: VN060256.D

Acq: 26 Feb 2020 17:05

Instrument :

MSVOA_N

ClientSampleId :

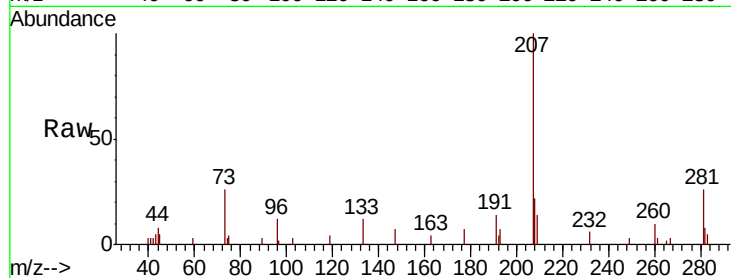
Tot Ion: 75 Resp: 119

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

