

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021720\
 Data File : VN060126.D
 Acq On : 17 Feb 2020 17:45
 Operator : JC/MD
 Sample : L1530-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 18 02:08:20 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	173855	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	283986	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	260714	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	121070	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	109552	51.78	ug/l	0.00
Spiked Amount			Recovery	=	103.56%	
35) Dibromofluoromethane	7.57	113	84739	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
50) Toluene-d8	10.08	98	342041	49.76	ug/l	0.00
Spiked Amount			Recovery	=	99.52%	
62) 4-Bromofluorobenzene	12.40	95	124304	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	

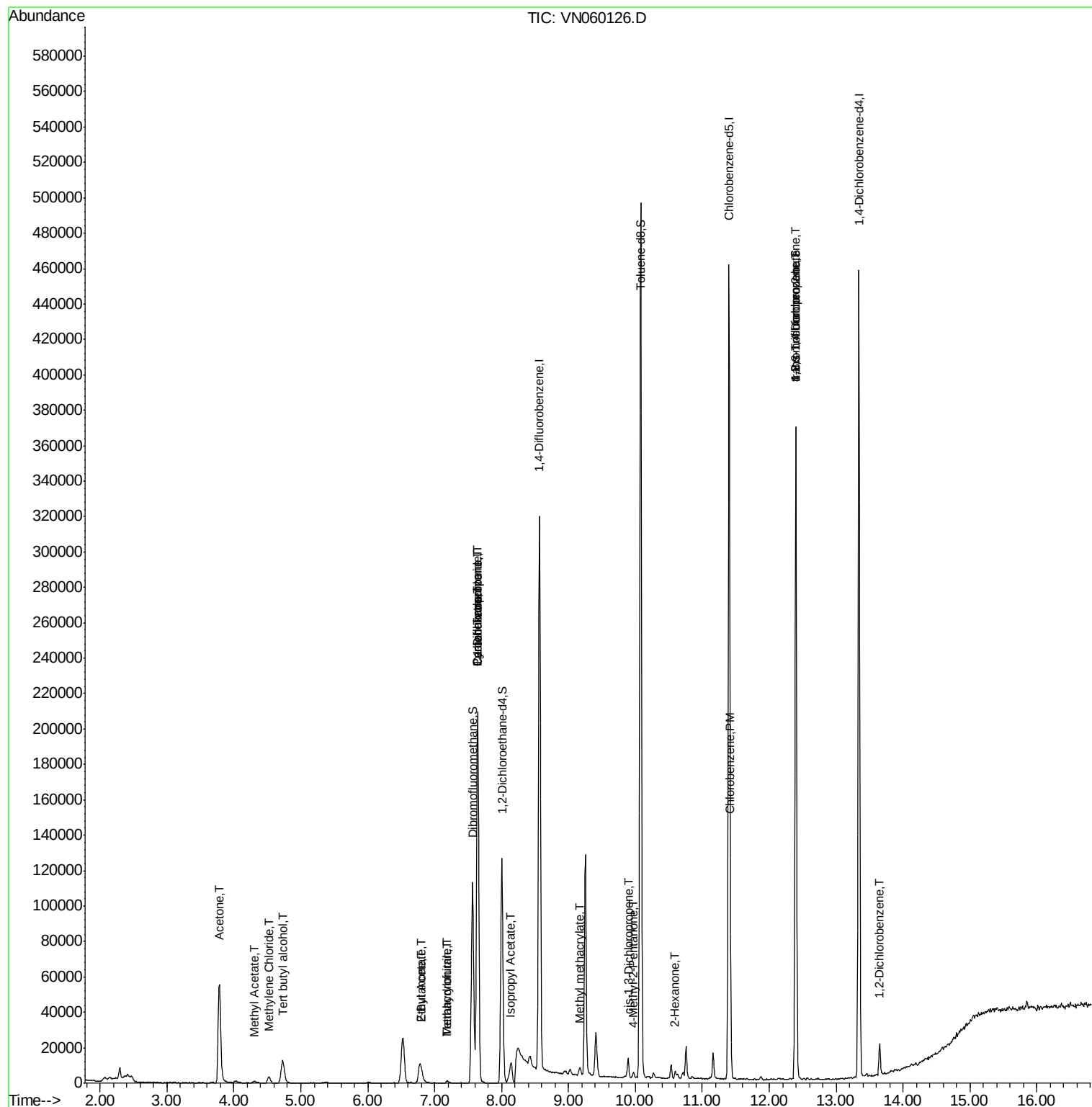
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	24804	78.351	ug/l	99
16) Acetone	3.78	43	97465	105.621	ug/l	98
18) Methyl Acetate	4.31	43	2017	1.164	ug/l #	59
20) Methylene Chloride	4.52	84	1301	0.707	ug/l	90
25) 2-Butanone	6.81	43	8853	7.628	ug/l	94
29) Tetrahydrofuran	7.19	42	1127	1.583	ug/l #	54
31) Cyclohexane	7.64	56	3755	1.255	ug/l #	19
36) 1,1-Dichloropropene	7.64	75	13294	5.054	ug/l #	48
37) Ethyl Acetate	6.81	43	8853	3.724	ug/l #	68
38) Carbon Tetrachloride	7.64	117	16852	5.899	ug/l #	15
41) Methacrylonitrile	7.18	41	558	0.560	ug/l #	100
43) Isopropyl Acetate	8.14	43	15444	3.800	ug/l #	85
48) Methyl methacrylate	9.16	41	2311	1.268	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	2527	1.074	ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	2023	0.613	ug/l #	56
59) 2-Hexanone	10.59	43	2560	1.409	ug/l	80
65) Chlorobenzene	11.43	112	4531	0.853	ug/l	92
76) 1,2,3-Trichloropropane	12.40	75	65133	28.119	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	65133	68.850	ug/l #	12
91) 1,2-Dichlorobenzene	13.65	146	7747	1.993	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.33	75	63	Below Cal	#	1

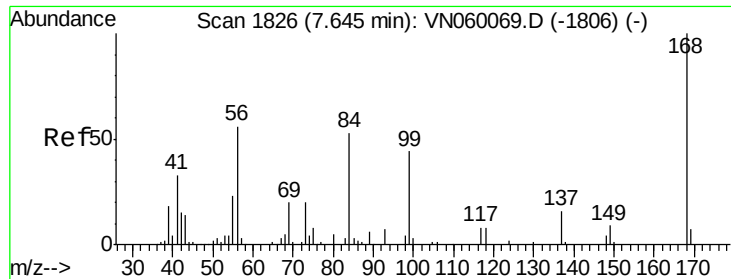
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060126.D

Acq: 17 Feb 2020 17:45

Instrument :

MSVOA_N

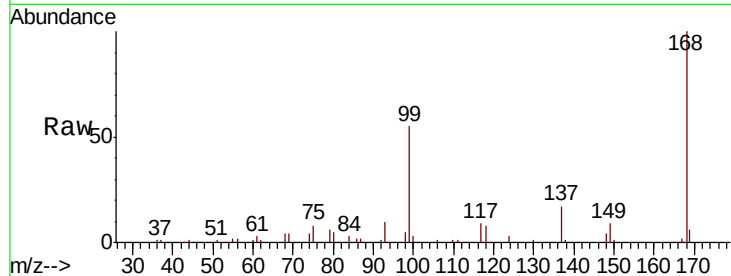
ClientSampleId :

Tot Ion:168 Resp: 173855

Ion Ratio Lower Upper

168 100

99 54.8 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

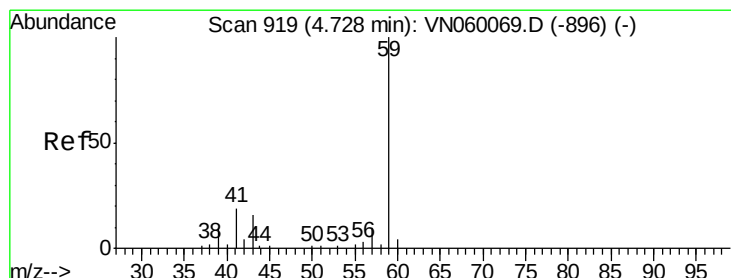
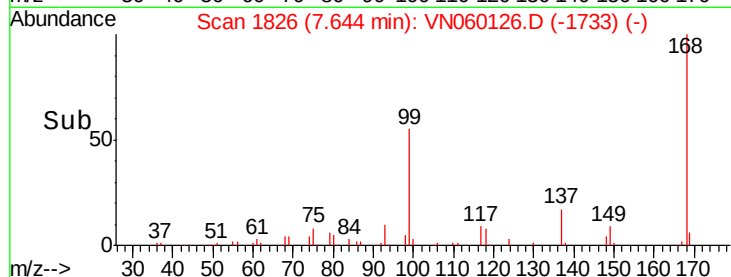
60000

40000

20000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 78.351 ug/l

RT: 4.73 min Scan# 920

Delta R.T. 0.00 min

Lab File: VN060126.D

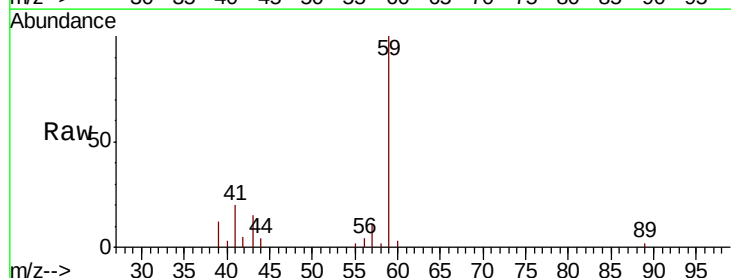
Acq: 17 Feb 2020 17:45

Tgt Ion: 59 Resp: 24804

Ion Ratio Lower Upper

59 100

57 9.8 8.2 12.4



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

8000

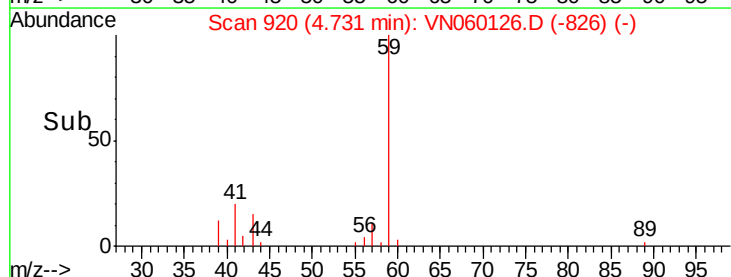
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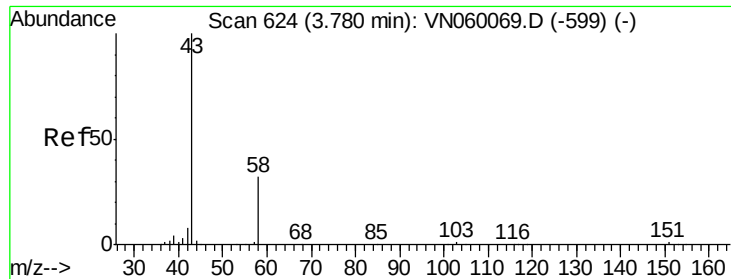
4000

2000

0

Time--> 4.60 4.70 4.80

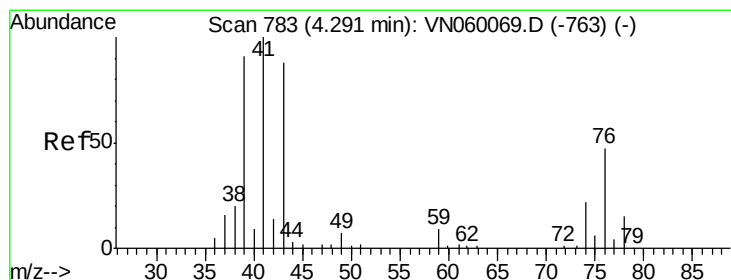
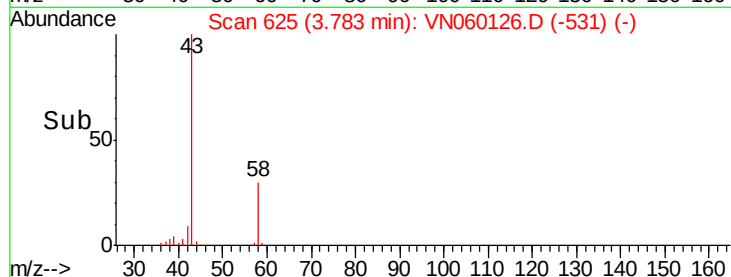
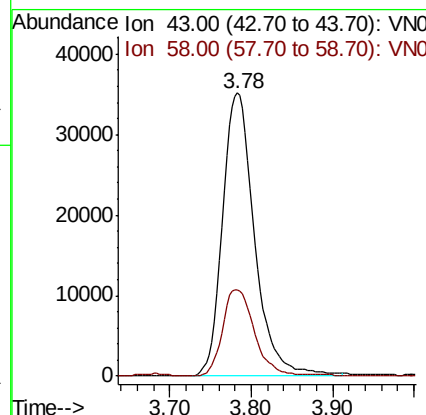
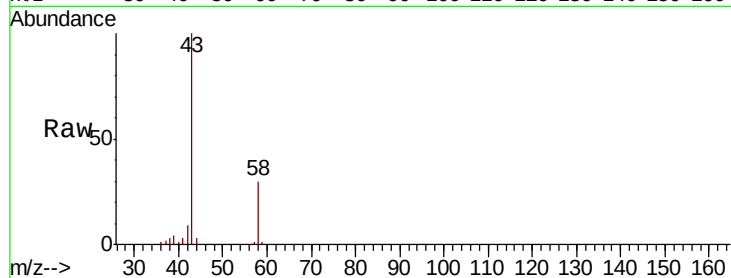




#16
Acetone
Concen: 105.621 ug/l
RT: 3.78 min Scan# 625
Delta R.T. 0.00 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

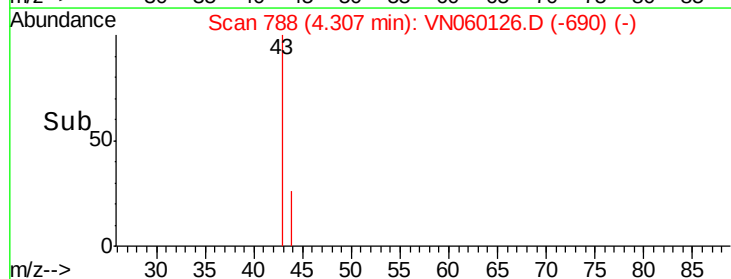
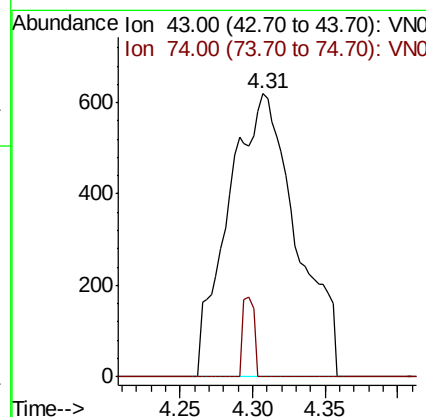
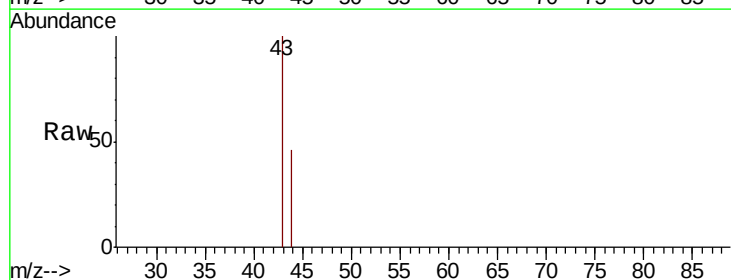
Instrument :
MSVOA_N
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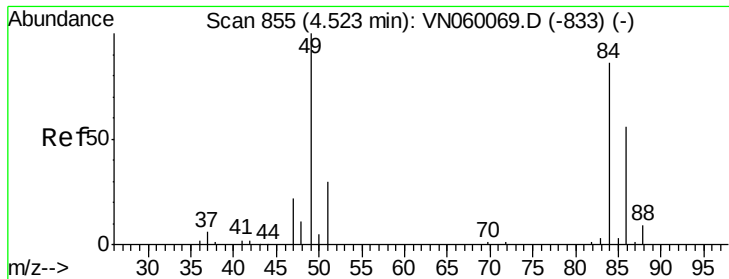
Tot Ion: 43 Resp: 97465
Ion Ratio Lower Upper
43 100
58 30.4 25.2 37.8



#18
Methyl Acetate
Concen: 1.164 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.02 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Tgt Ion: 43 Resp: 2017
Ion Ratio Lower Upper
43 100
74 4.7 20.3 30.5#

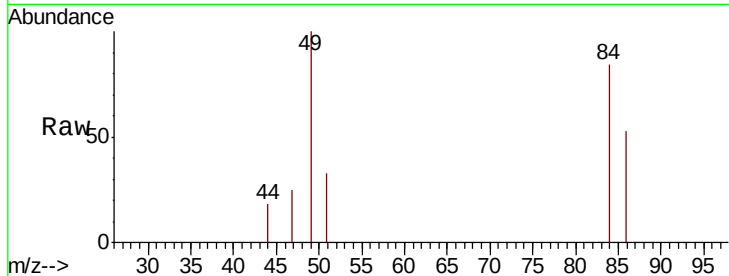




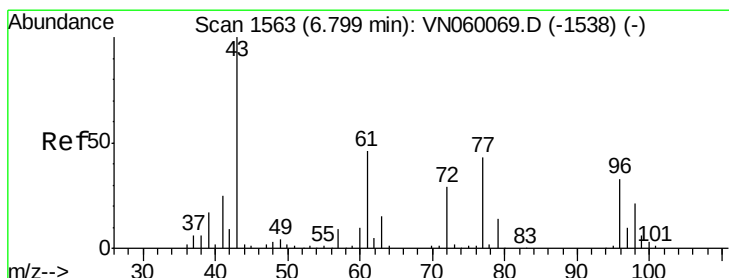
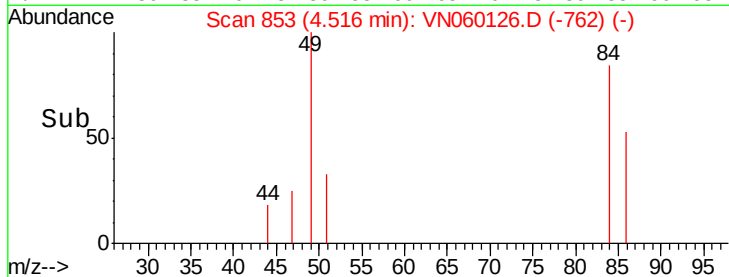
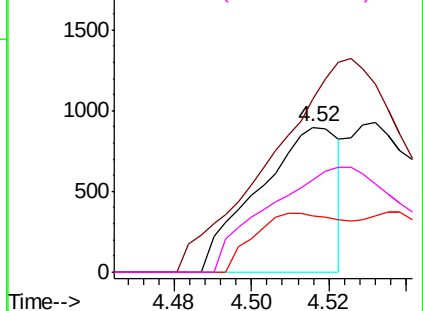
#20
Methvlene Chloride
Concen: 0.707 ug/l
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	84	Resp:	1301
Ion	Ratio	Lower	Upper
84	100		
49	100.2	93.4	140.0
51	39.2	28.4	42.6
86	63.4	52.5	78.7

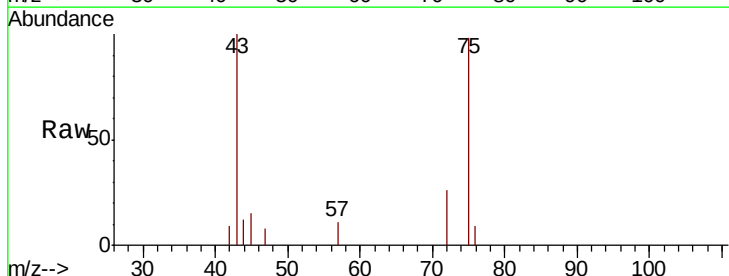


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

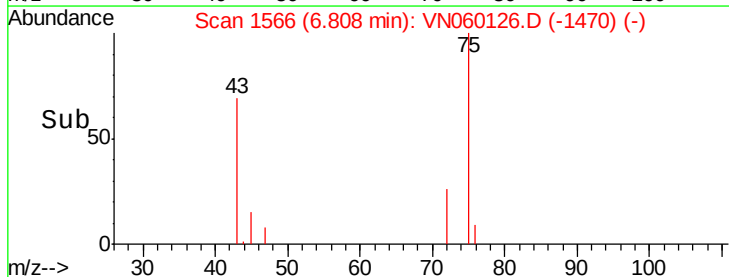
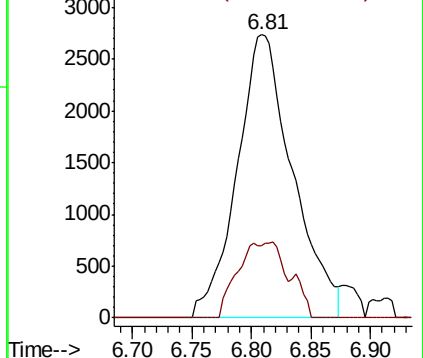


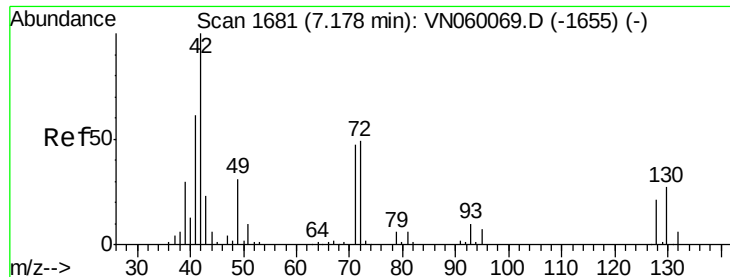
#25
2-Butanone
Concen: 7.628 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Tgt Ion:	43	Resp:	8853
Ion	Ratio	Lower	Upper
43	100		
72	25.7	23.3	34.9



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

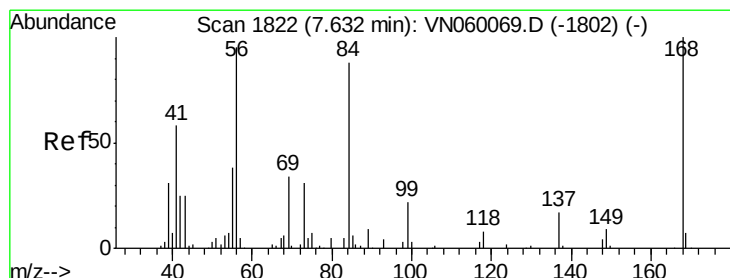
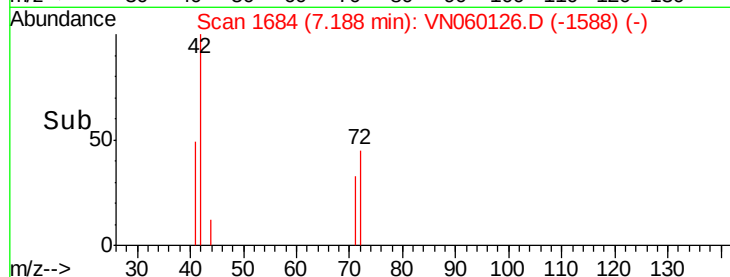
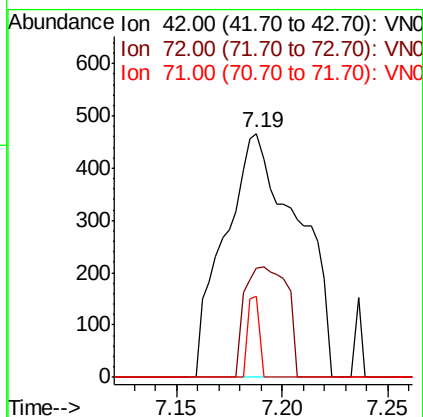
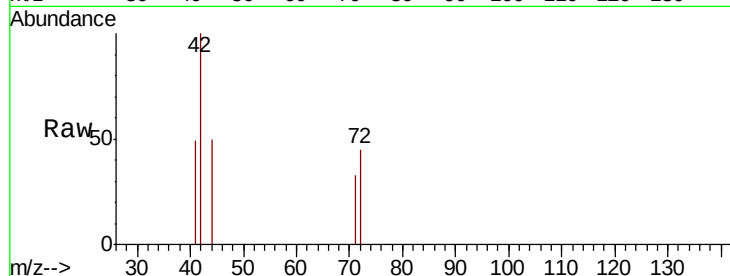




#29
Tetrahydrofuran
Concen: 1.583 ug/l
RT: 7.19 min Scan# 1684
Delta R.T. 0.01 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

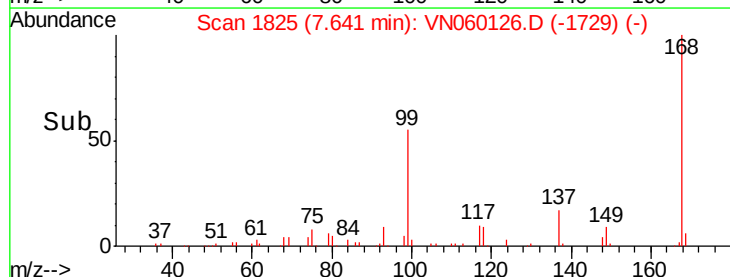
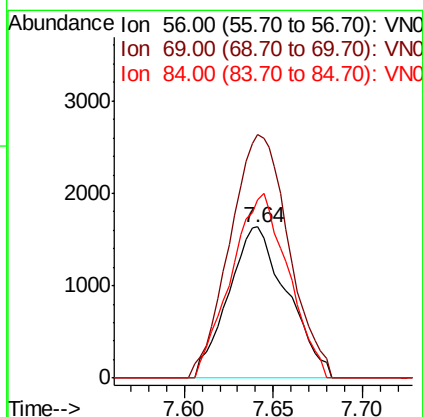
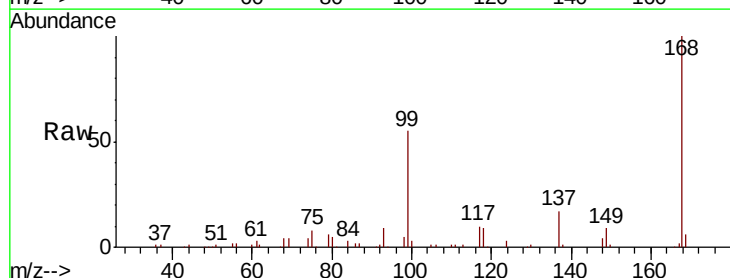
Instrument :
MSVOA_N
ClientSampleId :

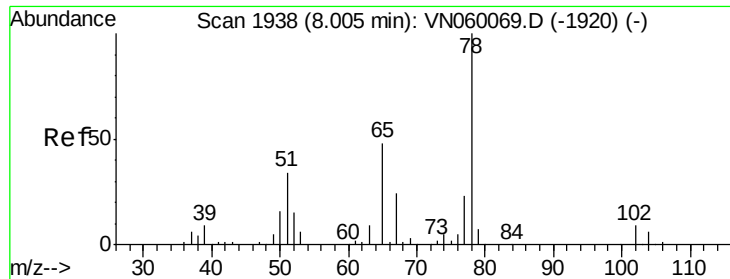
Tot Ion: 42 Resp: 1127
Ion Ratio Lower Upper
42 100
72 26.2 38.2 57.4#
71 5.2 36.6 54.8#



#31
Cyclohexane
Concen: 1.255 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Tgt Ion: 56 Resp: 3755
Ion Ratio Lower Upper
56 100
69 161.0 28.3 42.5#
84 117.9 72.6 108.8#

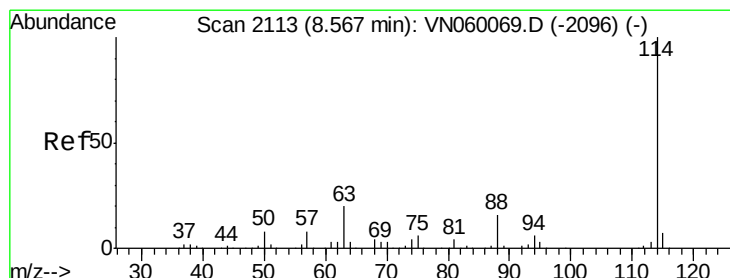
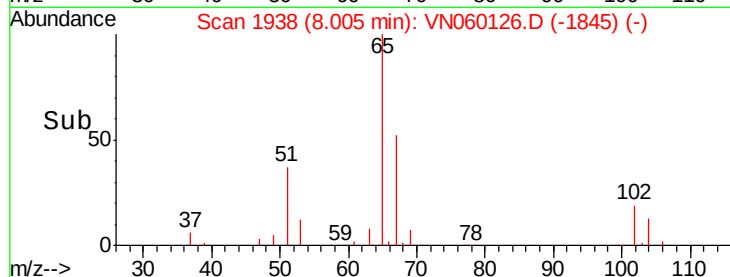
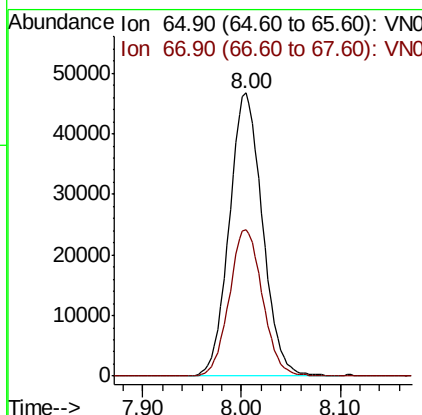
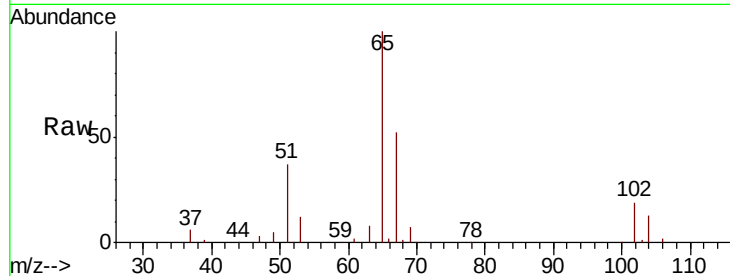




#33
 1,2-Dichloroethane-d4
 Concen: 51.785 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060126.D
 Acq: 17 Feb 2020 17:45

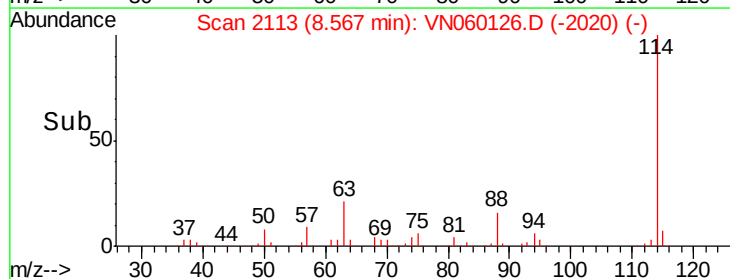
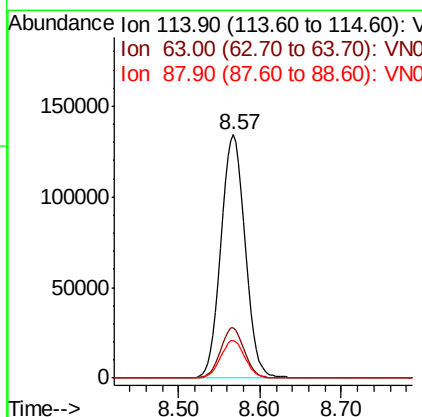
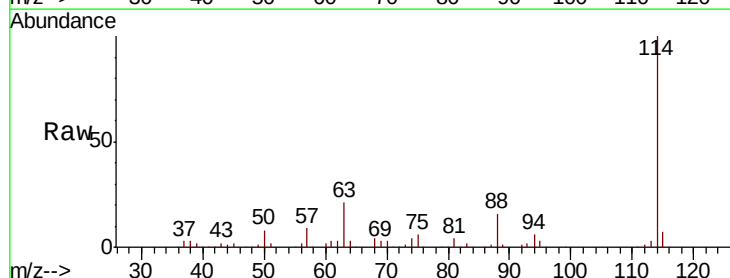
Instrument :
 MSVOA_N
 ClientSampled :

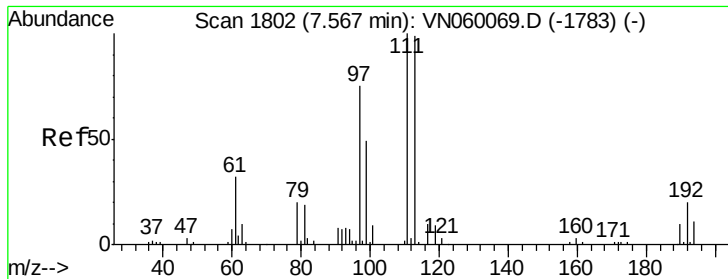
Tot Ion: 65 Resp: 109552
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060126.D
 Acq: 17 Feb 2020 17:45

Tgt Ion: 114 Resp: 283986
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.0
 88 15.6 0.0 31.6

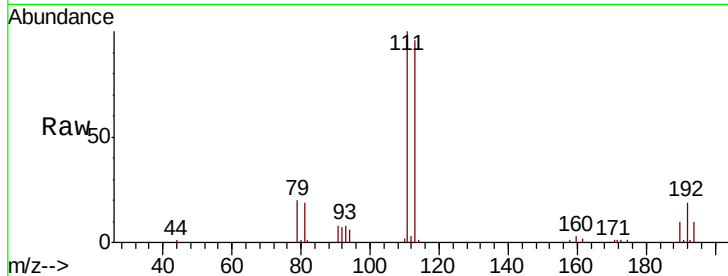




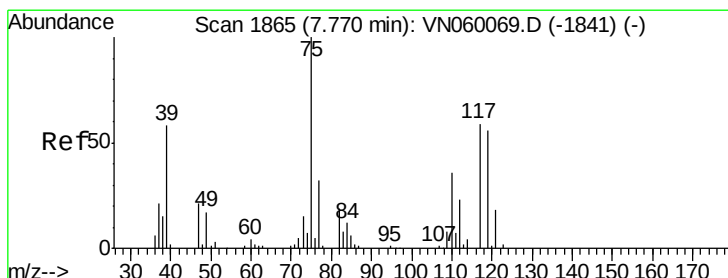
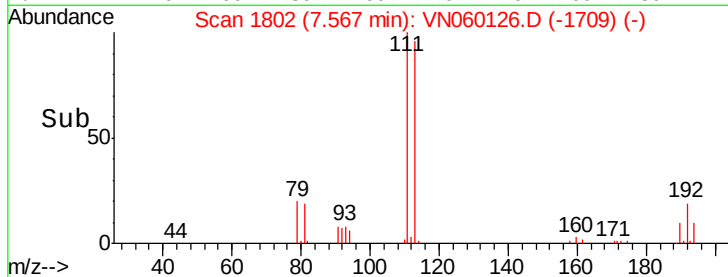
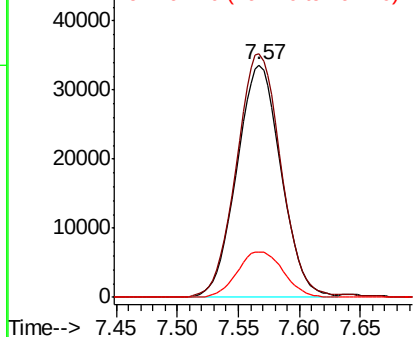
#35
 Dibromofluoromethane
 Concen: 48.543 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060126.D
 Acq: 17 Feb 2020 17:45

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 84739
 Ion Ratio Lower Upper
 113 100
 111 105.8 81.4 122.2
 192 20.3 16.2 24.2

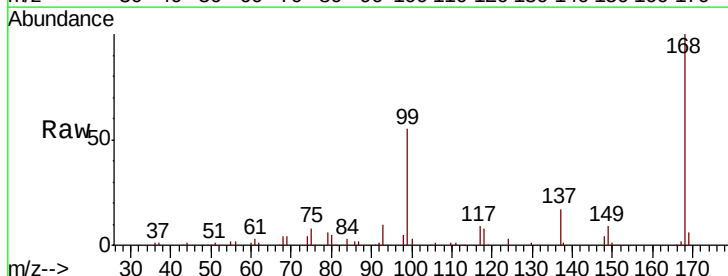


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

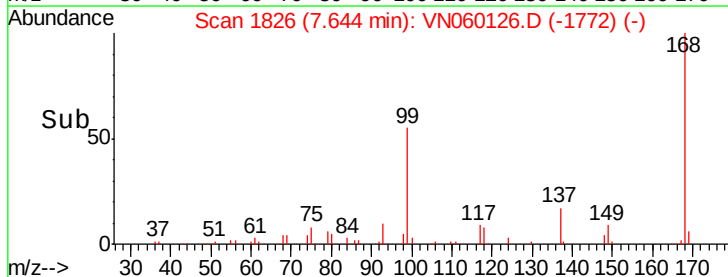
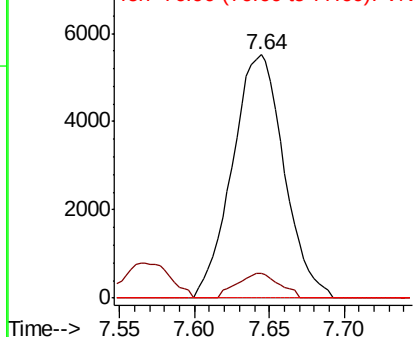


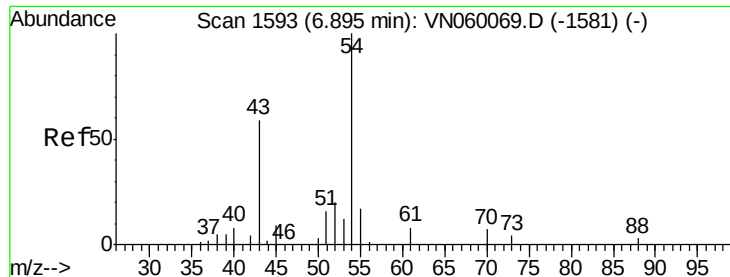
#36
 1,1-Dichloropropene
 Concen: 5.054 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060126.D
 Acq: 17 Feb 2020 17:45

Tgt Ion: 75 Resp: 13294
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.1 54.3#
 77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

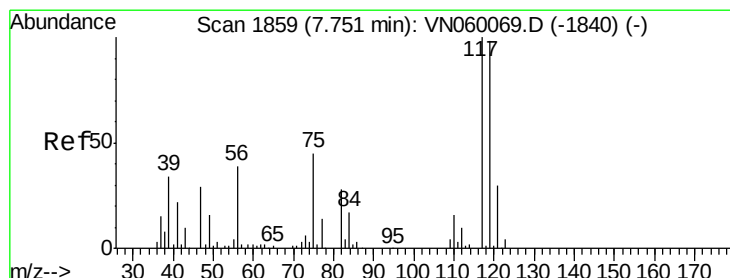
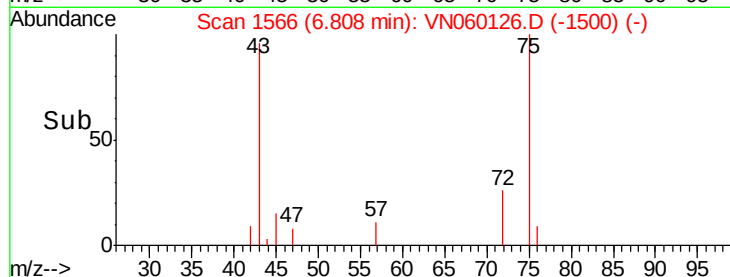
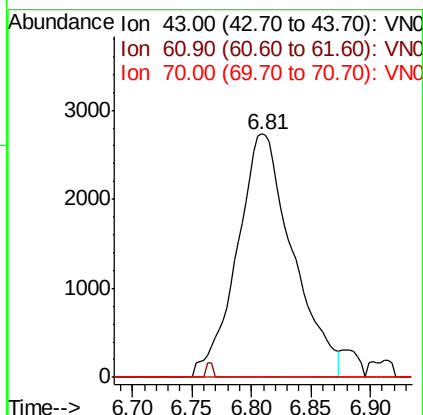
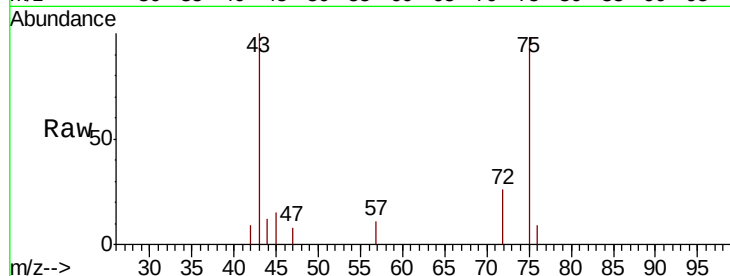




#37
Ethyl Acetate
Concen: 3.724 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.09 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

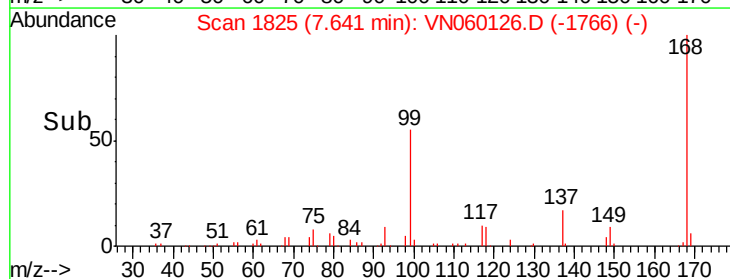
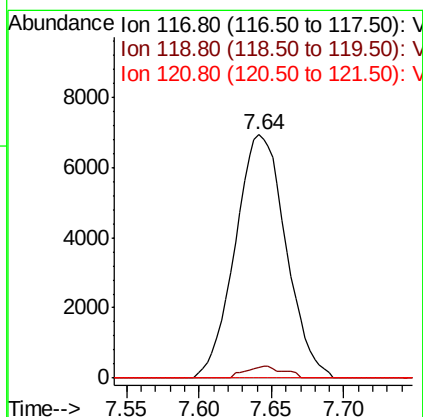
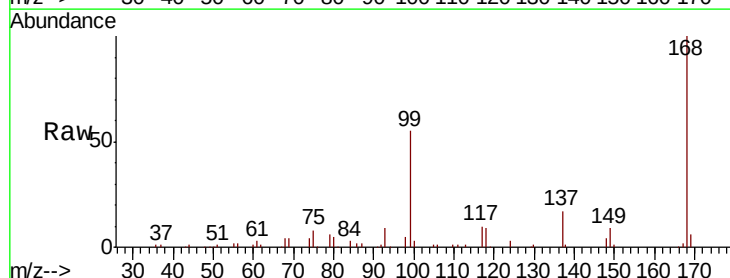
Instrument :
MSVOA_N
ClientSampleId :

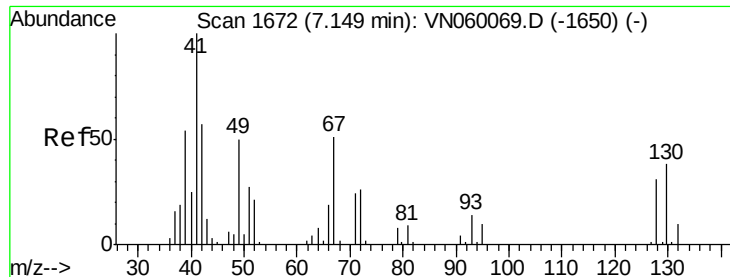
Tot Ion: 43 Resp: 8853
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.2#
70 0.0 8.7 13.1#



#38
Carbon Tetrachloride
Concen: 5.899 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Tgt Ion: 117 Resp: 16852
Ion Ratio Lower Upper
117 100
119 4.6 78.2 117.4#
121 0.0 24.2 36.2#

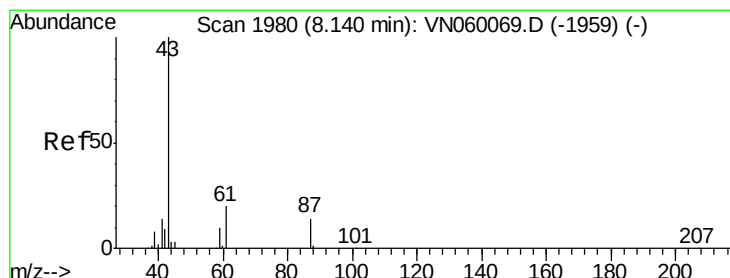
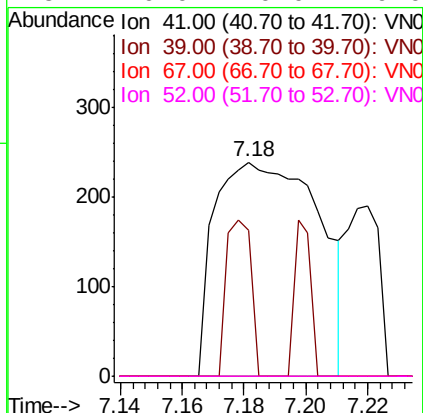
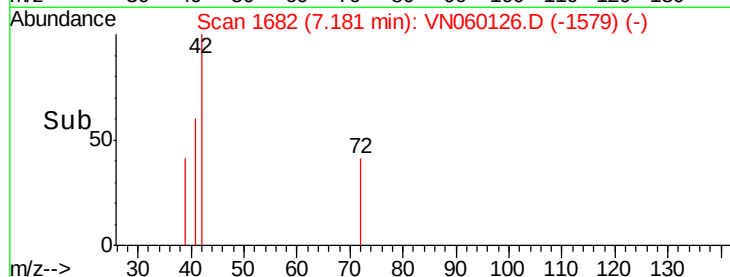
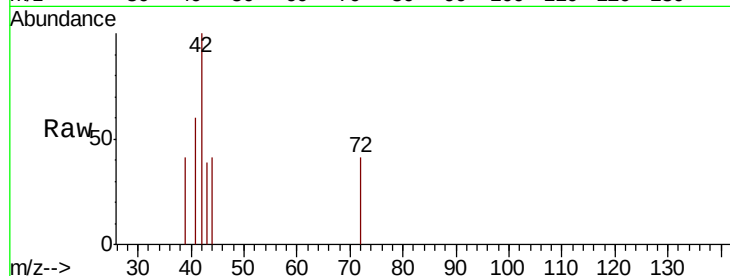




#41
Methacrylonitrile
Concen: 0.560 ug/l
RT: 7.18 min Scan# 1682
Delta R.T. 0.03 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

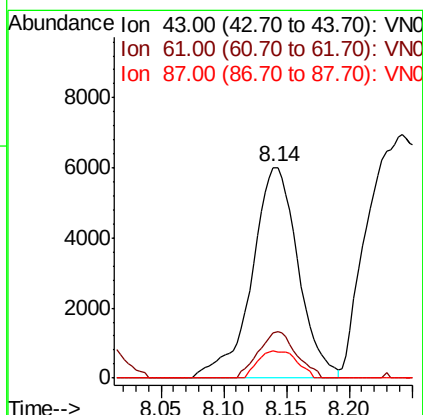
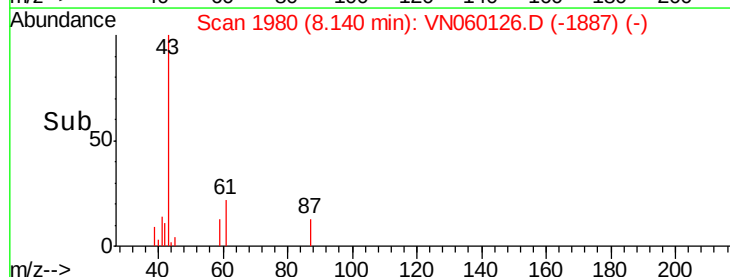
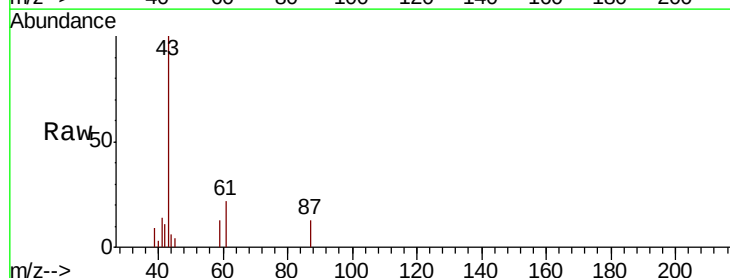
Instrument :
MSVOA_N
ClientSampleId :

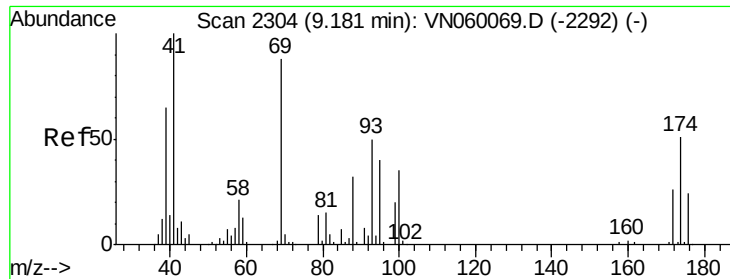
Tot Ion: 41 Resp: 558
Ion Ratio Lower Upper
41 100
39 17.2 0.0 0.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



#43
Isopropyl Acetate
Concen: 3.800 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. -0.00 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Tgt Ion: 43 Resp: 15444
Ion Ratio Lower Upper
43 100
61 17.9 21.8 32.6#
87 10.8 11.4 17.2#

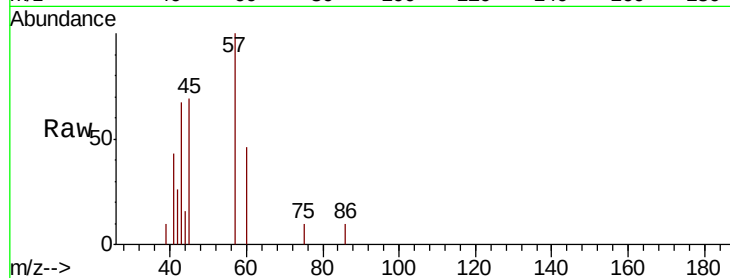




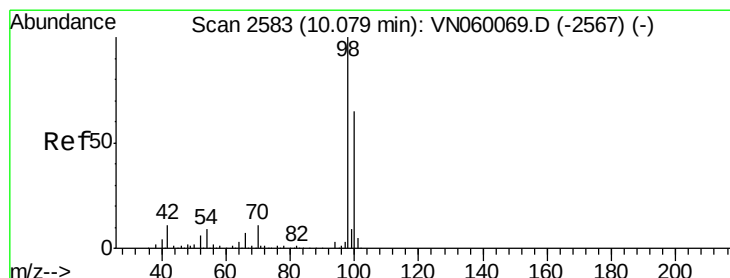
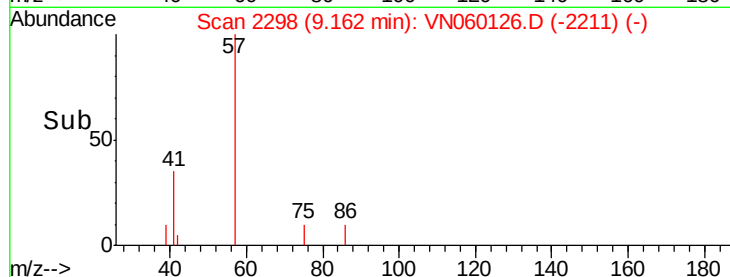
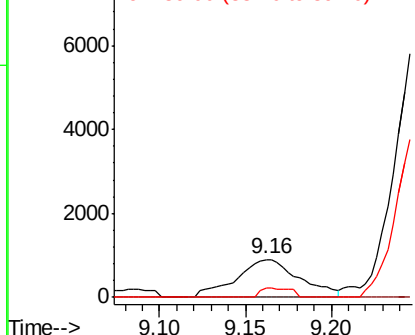
#48
Methvl methacrylate
Concen: 1.268 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 2311
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 11.6 54.1 81.1#

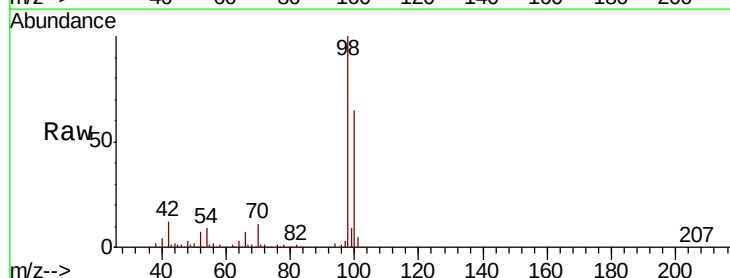


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

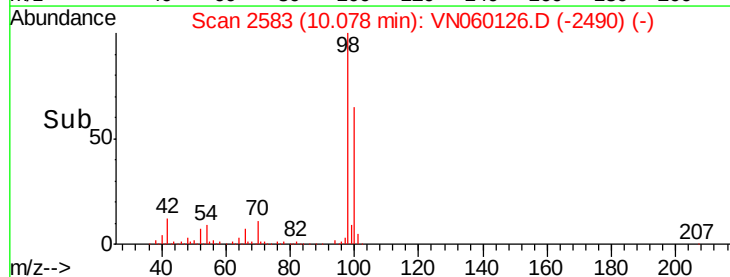
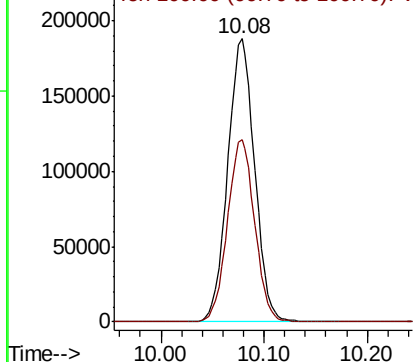


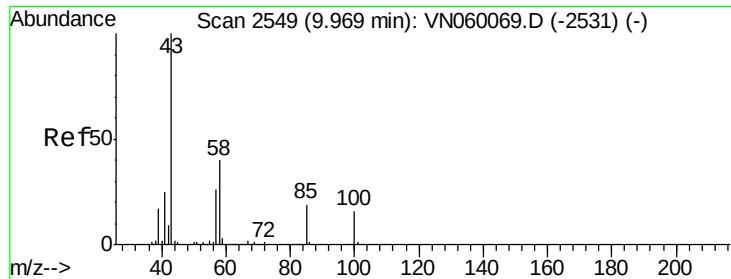
#50
Toluene-d8
Concen: 49.756 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Tgt Ion: 98 Resp: 342041
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5



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

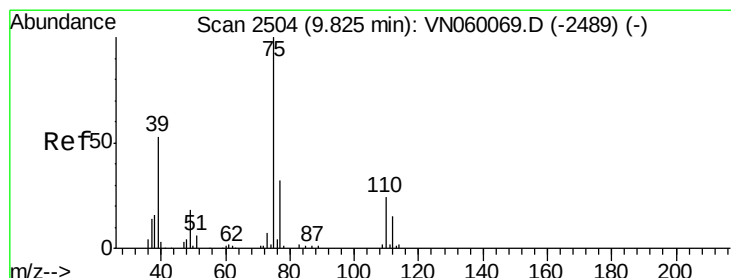
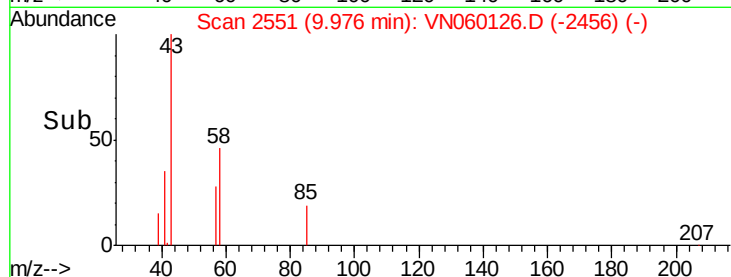
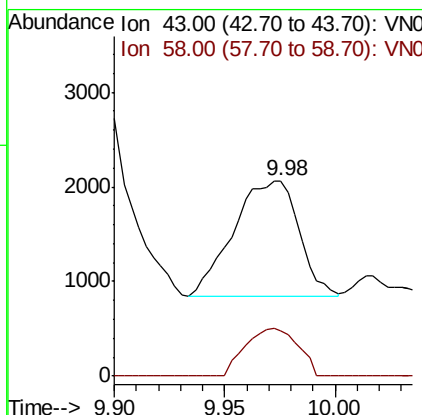
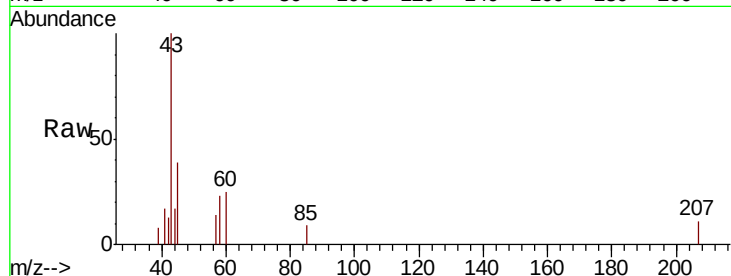




#51
 4-Methyl-2-Pentanone
 Concen: 1.074 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.01 min
 Lab File: VN060126.D
 Acq: 17 Feb 2020 17:45

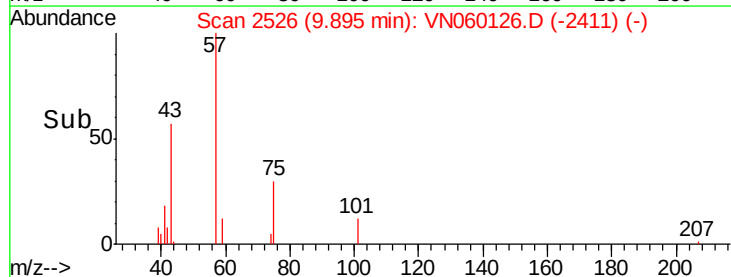
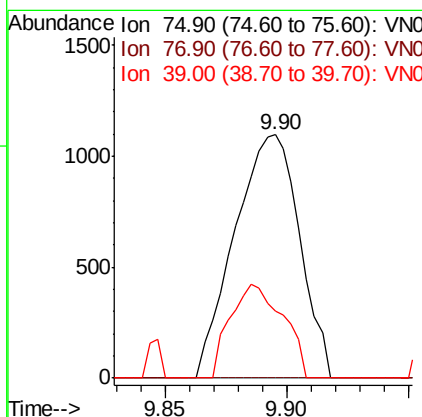
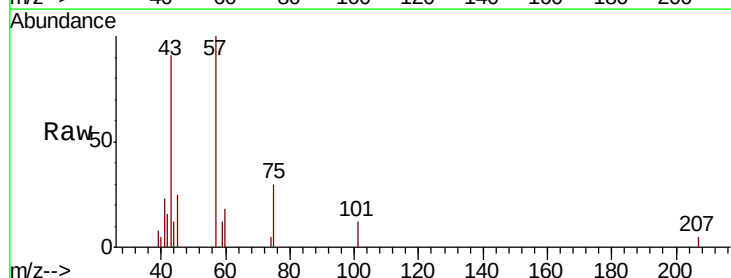
Instrument :
 MSVOA_N
 ClientSampled :

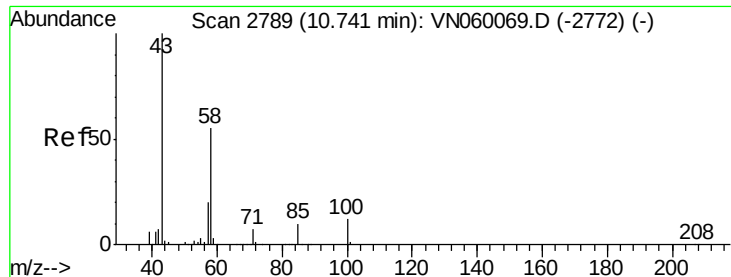
Tot Ion: 43 Resp: 2527
 Ion Ratio Lower Upper
 43 100
 58 33.0 31.8 47.8



#54
 cis-1,3-Dichloropropene
 Concen: 0.613 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.07 min
 Lab File: VN060126.D
 Acq: 17 Feb 2020 17:45

Tgt Ion: 75 Resp: 2023
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.6 38.4#
 39 27.5 42.2 63.4#

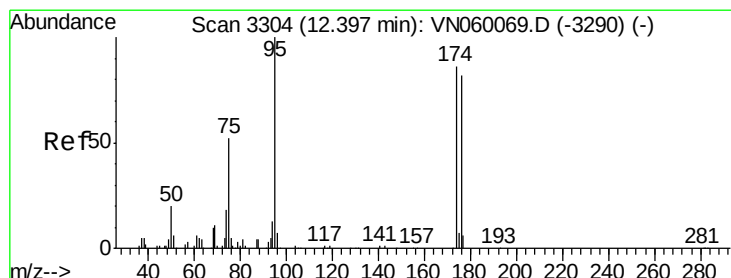
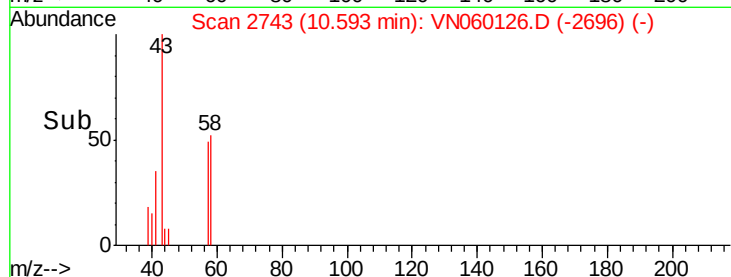
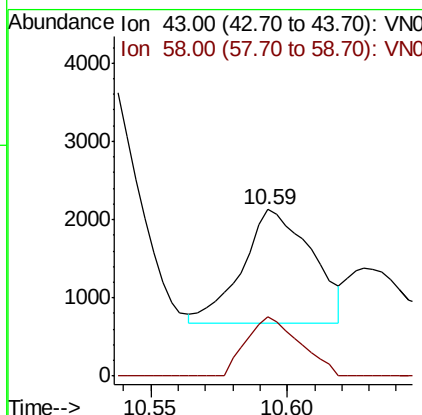
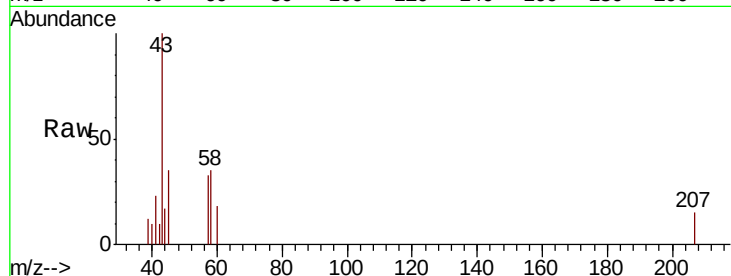




#59
2-Hexanone
Concen: 1.409 ug/l
RT: 10.59 min Scan# 2743
Delta R.T. -0.15 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

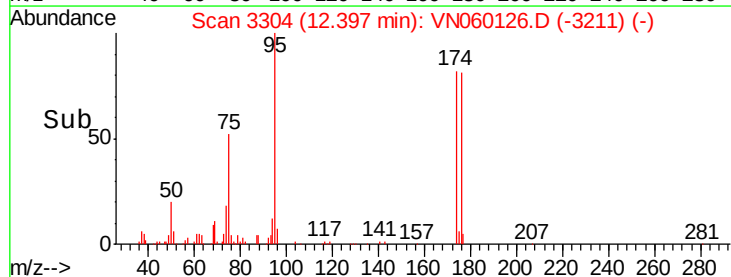
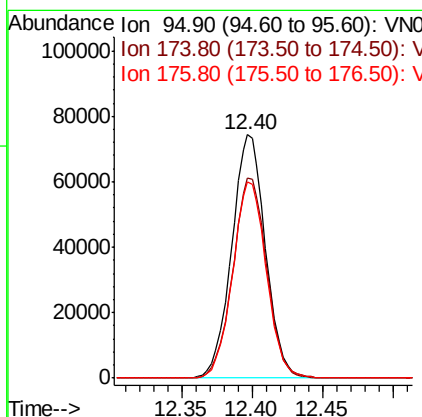
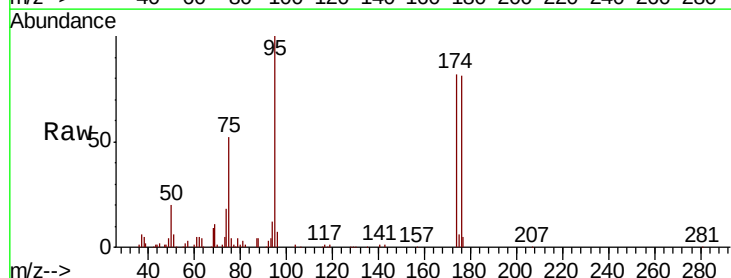
Instrument :
MSVOA_N
ClientSampled :

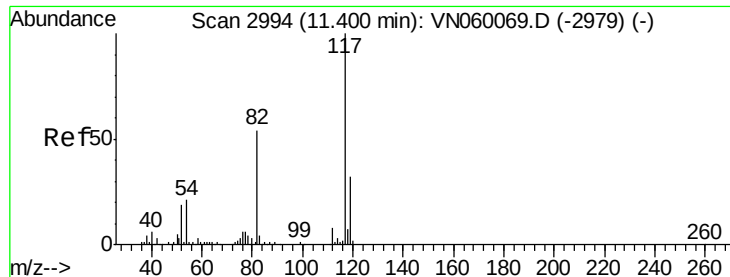
Tot Ion: 43 Resp: 2560
Ion Ratio Lower Upper
43 100
58 40.7 27.5 82.4



#62
4-Bromofluorobenzene
Concen: 49.210 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Tgt Ion: 95 Resp: 124304
Ion Ratio Lower Upper
95 100
174 82.8 0.0 169.8
176 80.7 0.0 164.8

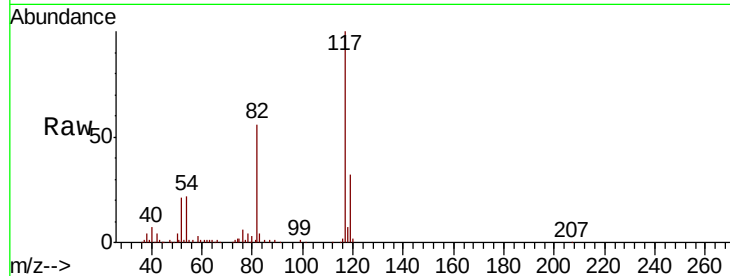




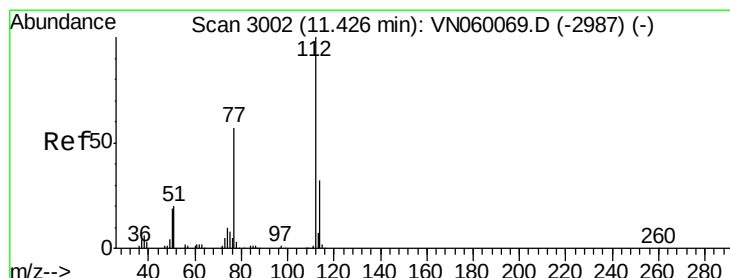
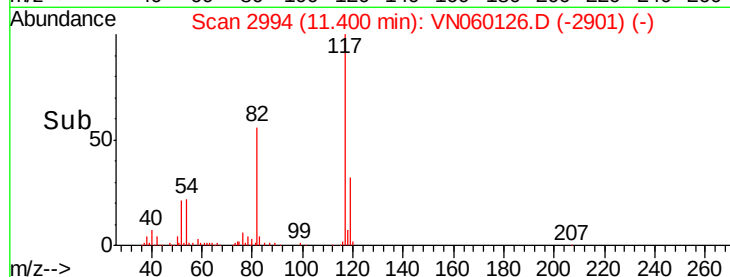
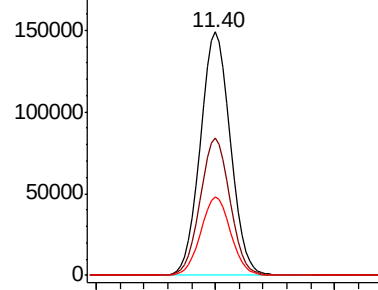
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	56.5	43.4	65.0
119	32.3	25.8	38.6

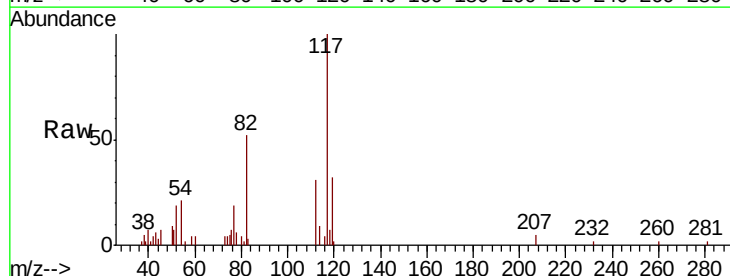


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

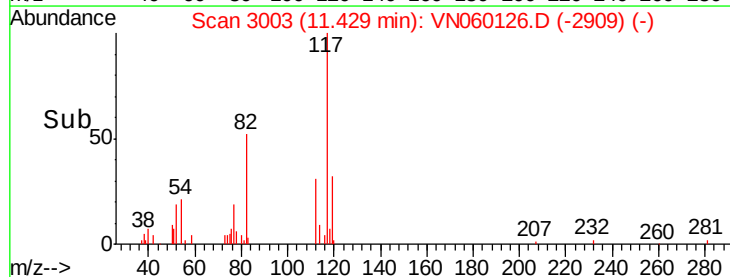
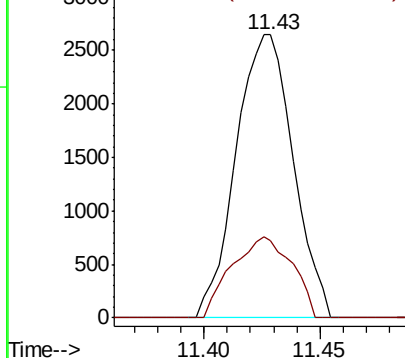


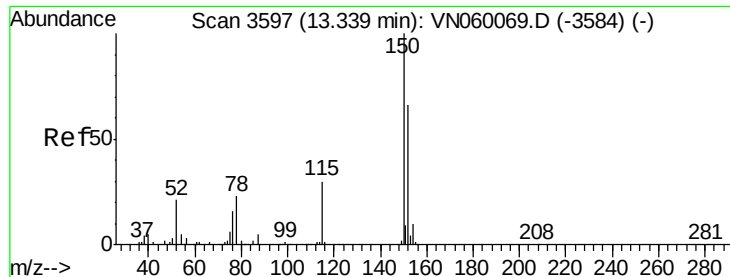
#65
Chlorobenzene
Concen: 0.853 ug/l
RT: 11.43 min Scan# 3003
Delta R.T. 0.00 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Tgt Ion	Ratio	Lower	Upper
112	100		
114	27.4	25.4	38.0



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V



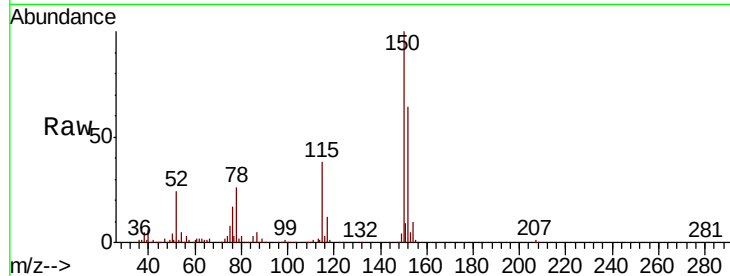


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.9	86.8
150	156.3	0.0	342.4

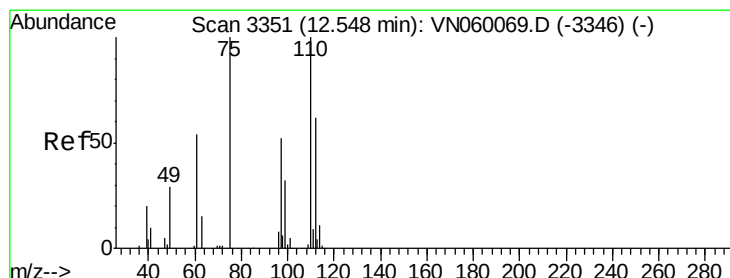
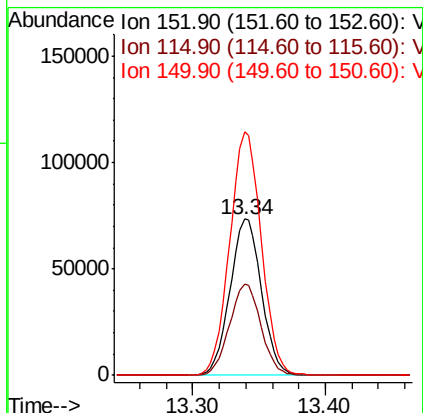
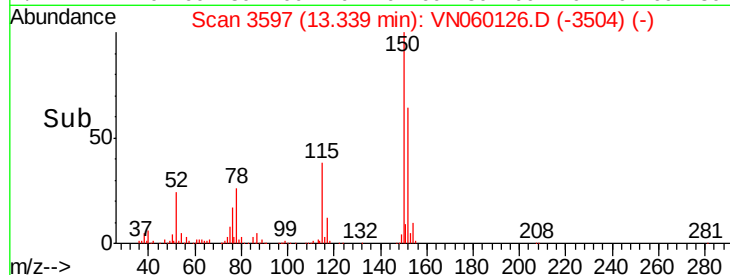


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

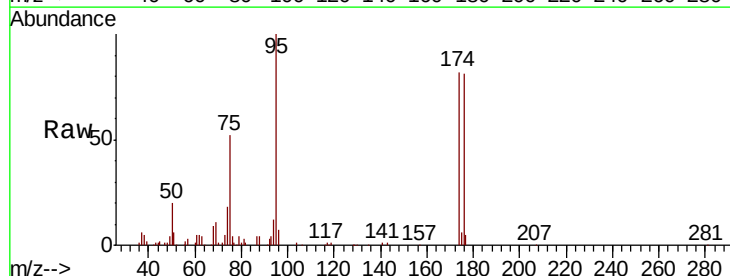
Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane
Concen: 28.119 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060126.D
Acq: 17 Feb 2020 17:45

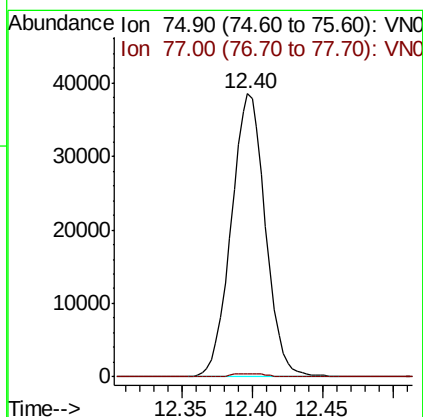
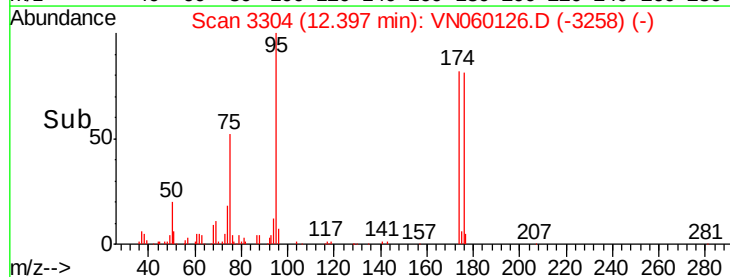
Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#

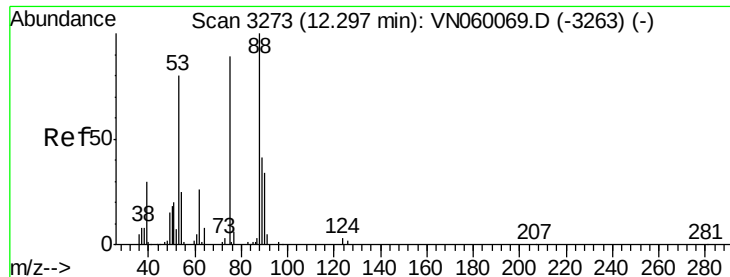


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

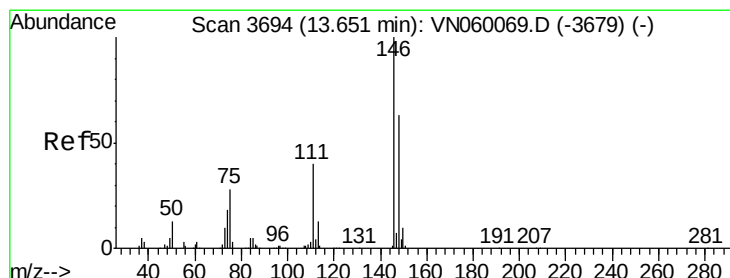
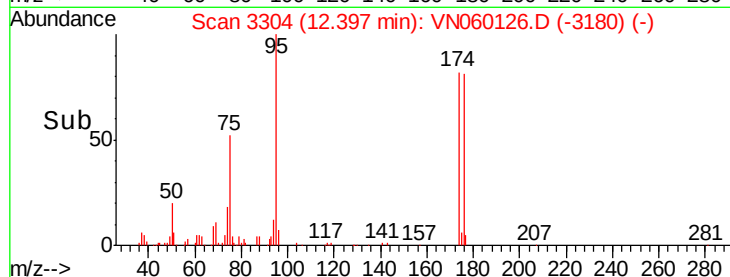
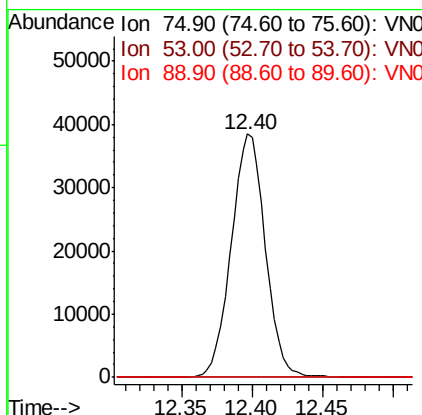
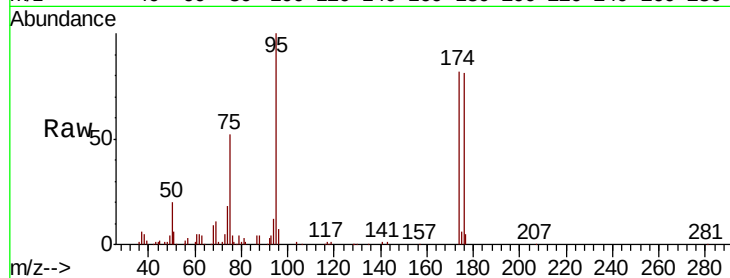




#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.850 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN060126.D
 Acq: 17 Feb 2020 17:45

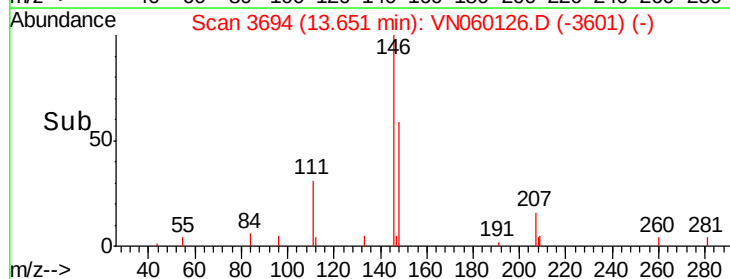
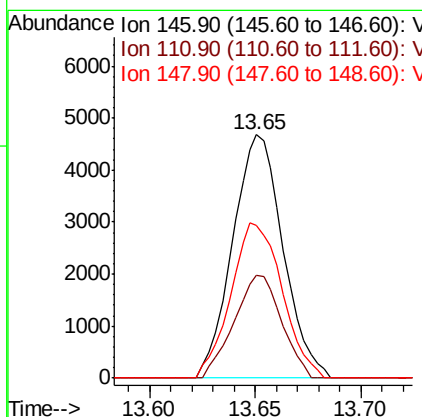
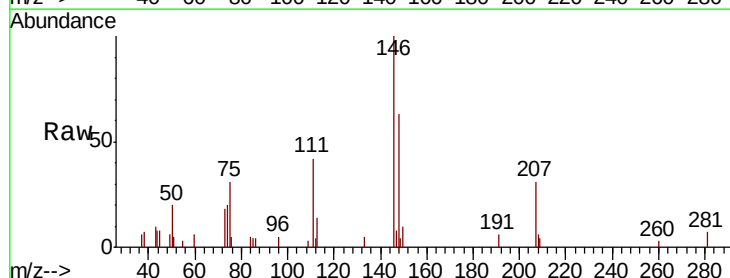
Instrument :
 MSVOA_N
 ClientSampled :

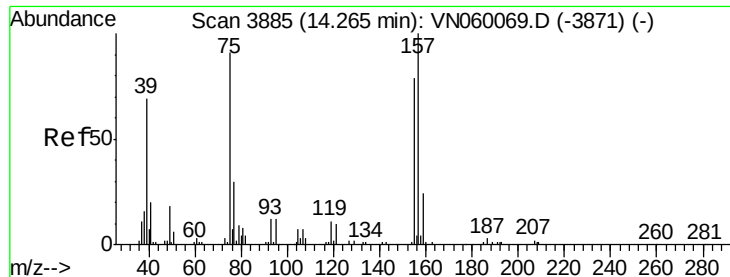
Tot Ion: 75 Resp: 65133
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.9 110.9#
 89 0.0 37.0 55.4#



#91
 1,2-Dichlorobenzene
 Concen: 1.993 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN060126.D
 Acq: 17 Feb 2020 17:45

Tgt Ion: 146 Resp: 7747
 Ion Ratio Lower Upper
 146 100
 111 39.8 20.1 60.2
 148 65.0 31.9 95.5





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.33 min Scan# 3906

Delta R.T. 0.07 min

Lab File: VN060126.D

Acq: 17 Feb 2020 17:45

Instrument :

MSVOA_N

ClientSampleId :

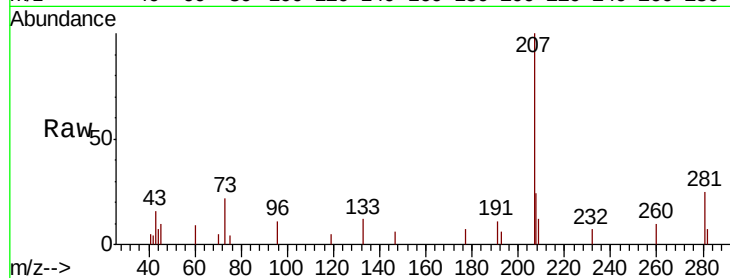
Tot Ion: 75 Resp: 63

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): VN060126.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060126.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060126.D (-3791) (-)

