

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN065004.D
 Acq On : 9 Dec 2020 6:16
 Operator : JC/MD
 Sample : L4970-17
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-B-TOP

Quant Time: Dec 09 08:01:20 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	166237	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	324144	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	341676	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	142632	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	108304	56.04	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	112.08%		
35) Dibromofluoromethane	7.55	113	100684	51.91	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.82%		
50) Toluene-d8	10.06	98	407308	51.40	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.80%		
62) 4-Bromofluorobenzene	12.38	95	150670	53.12	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	106.24%		

Target Compounds

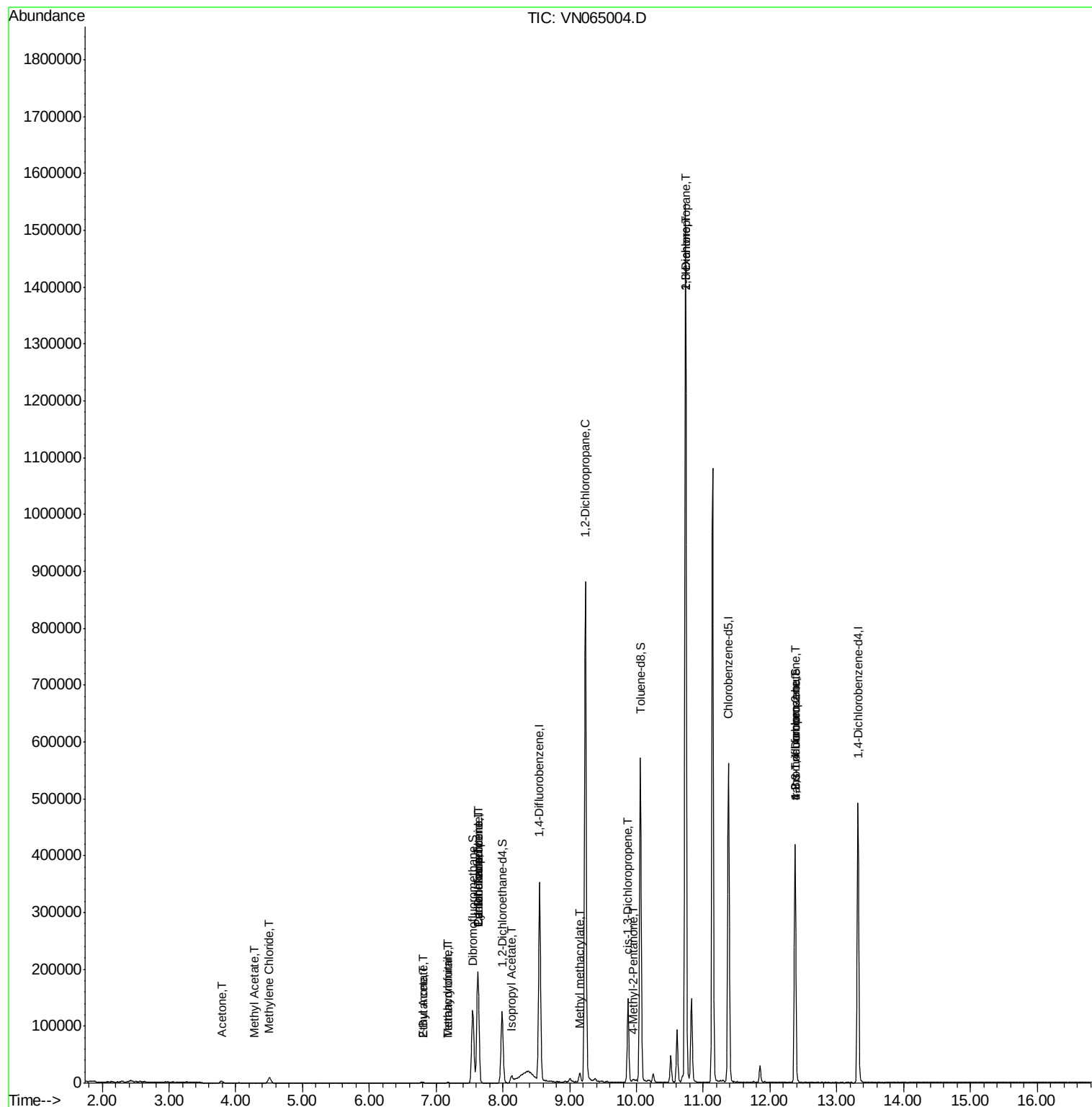
					Qvalue	
16) Acetone	3.78	43	6548	10.307	ug/l	95
18) Methyl Acetate	4.28	43	613	0.321	ug/l #	50
20) Methylene Chloride	4.50	84	7677	3.856	ug/l	98
25) 2-Butanone	6.80	43	2646	2.569	ug/l #	85
29) Tetrahydrofuran	7.17	42	806	1.134	ug/l #	56
31) Cyclohexane	7.62	56	2707	1.005	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	12073	4.018	ug/l #	46
37) Ethyl Acetate	6.80	43	2646	0.914	ug/l #	66
38) Carbon Tetrachloride	7.63	117	14937	4.778	ug/l #	17
41) Methacrylonitrile	7.17	41	343	0.257	ug/l #	24
43) Isopropyl Acetate	8.13	43	18789	4.035	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	950	0.398	ug/l #	43
48) Methyl methacrylate	9.15	41	3716	1.670	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	4088	1.462	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	27692	7.237	ug/l #	61
57) 1,3-Dichloropropane	10.73	76	16090	4.184	ug/l #	42
59) 2-Hexanone	10.74	43	211501	105.114	ug/l #	51
76) 1,2,3-Trichloropropane	12.37	75	72198	23.504	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	72198	64.420	ug/l #	15

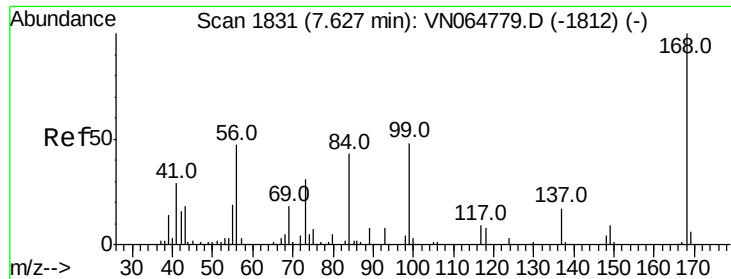
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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4S1-B-TOP

Quant Time: Dec 09 08:01:20 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065004.D

Acq: 9 Dec 2020 6:16

Instrument :

MSVOA_N

ClientSampleId :

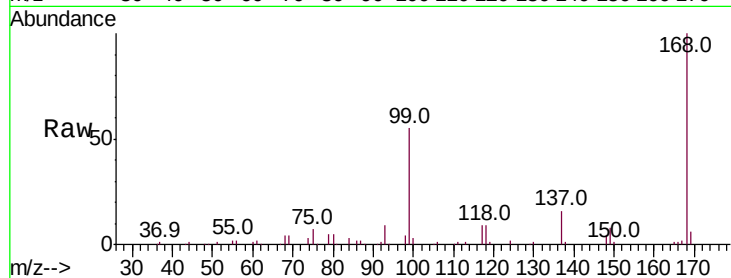
4S1-B-TOP

Tot Ion:168 Resp: 166237

Ion Ratio Lower Upper

168 100

99 55.4 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

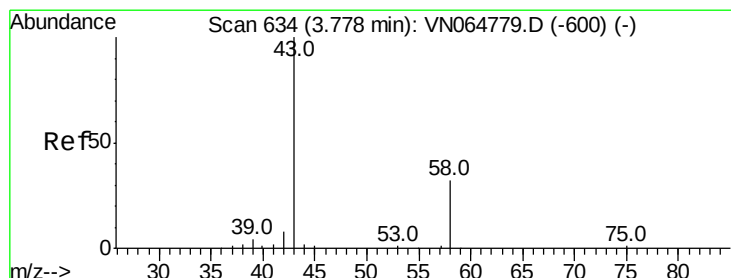
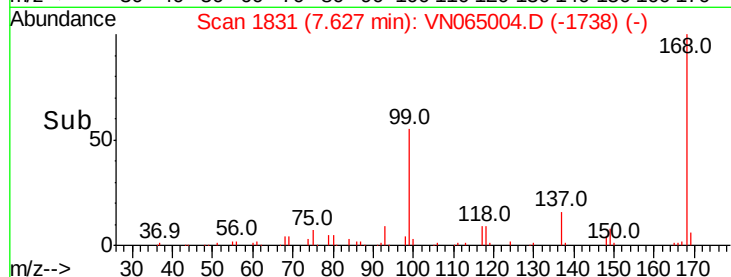
40000

20000

0

7.50 7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 10.307 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN065004.D

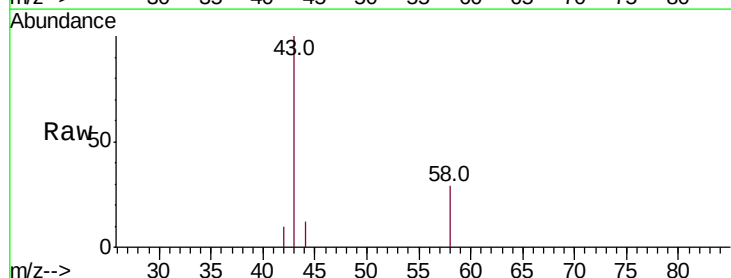
Acq: 9 Dec 2020 6:16

Tgt Ion: 43 Resp: 6548

Ion Ratio Lower Upper

43 100

58 29.2 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2500

2000

1500

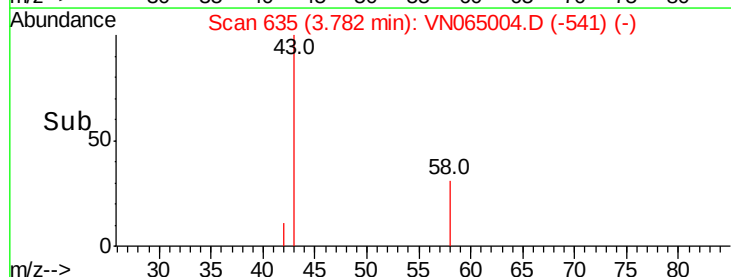
1000

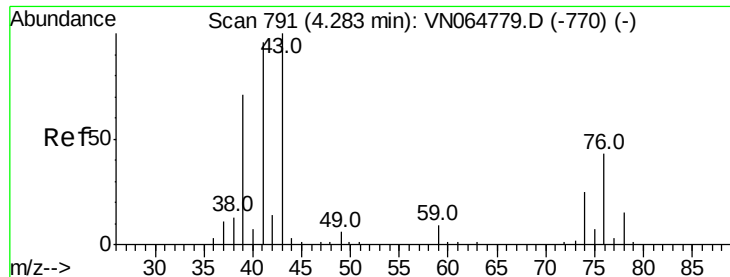
500

0

3.70 3.75 3.80 3.85

Time-->





#18

Methyl Acetate

Concen: 0.321 ug/l

RT: 4.28 min Scan# 789

Delta R.T. -0.01 min

Lab File: VN065004.D

Acq: 9 Dec 2020 6:16

Instrument :

MSVOA_N

ClientSampled :

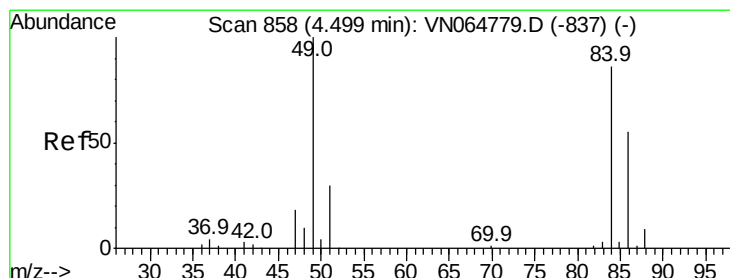
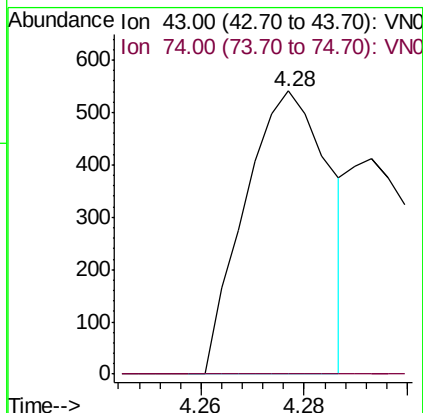
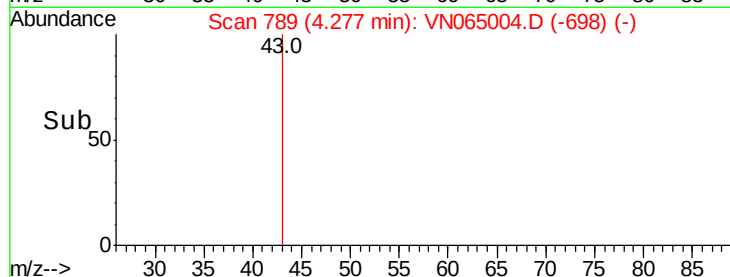
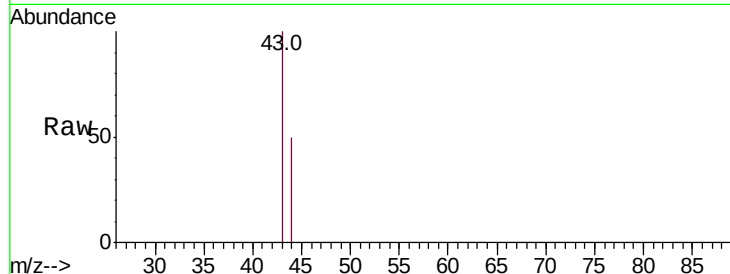
4S1-B-TOP

Tot Ion: 43 Resp: 613

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



#20

Methylene Chloride

Concen: 3.856 ug/l

RT: 4.50 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN065004.D

Acq: 9 Dec 2020 6:16

Tgt Ion: 84 Resp: 7677

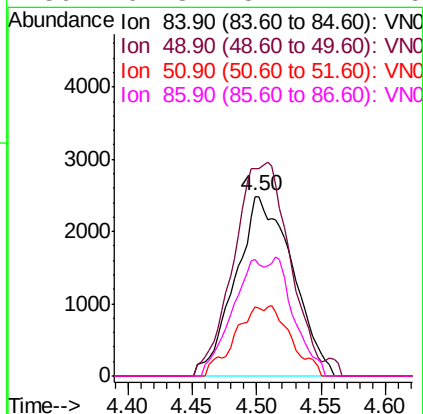
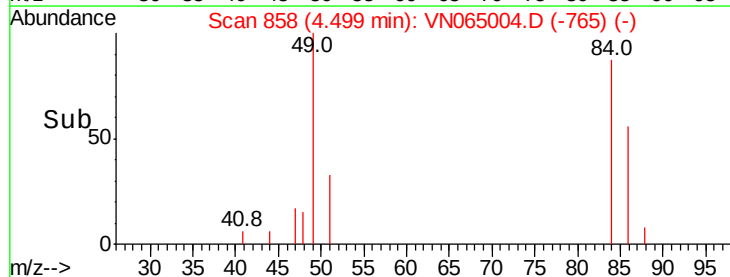
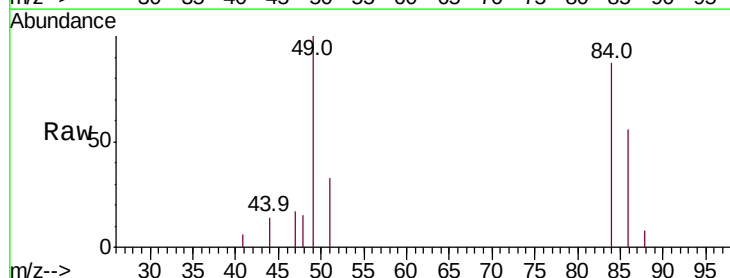
Ion Ratio Lower Upper

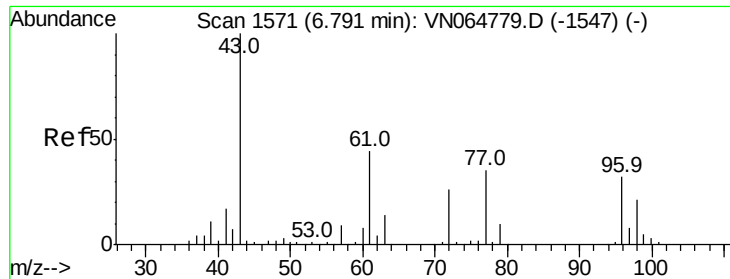
84 100

49 115.5 93.4 140.0

51 38.5 28.2 42.4

86 64.8 51.7 77.5

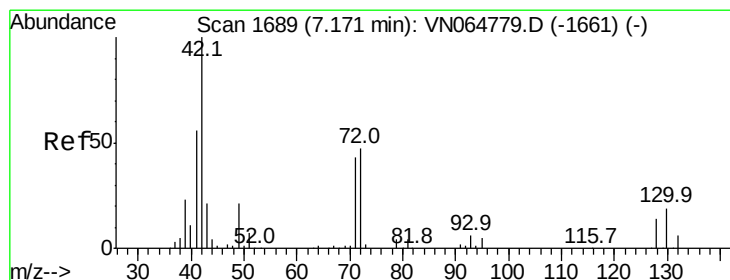
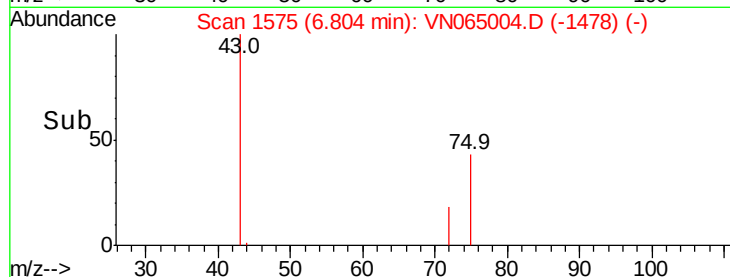
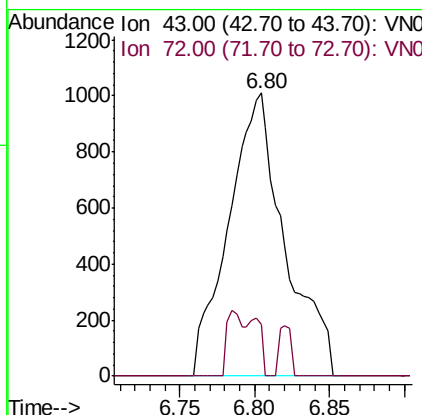
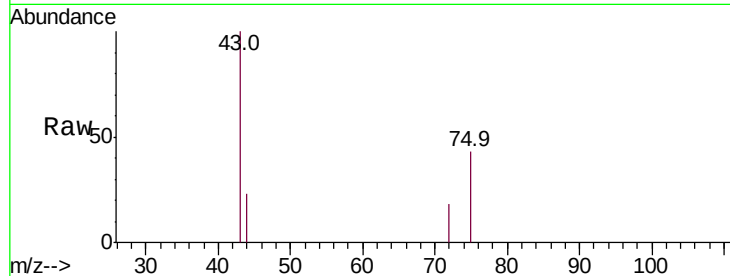




#25
2-Butanone
Concen: 2.569 ug/l
RT: 6.80 min Scan# 1575
Delta R.T. 0.01 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

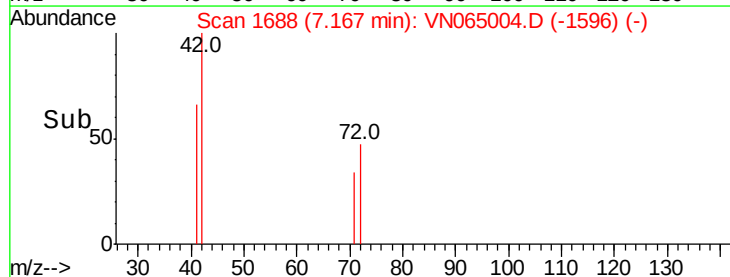
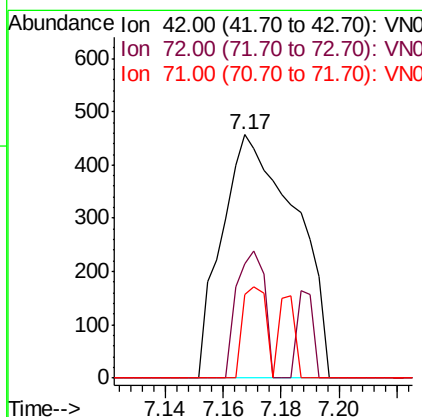
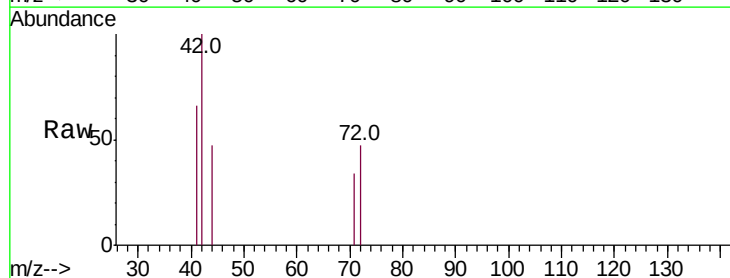
Instrument :
MSVOA_N
ClientSampled :
4S1-B-TOP

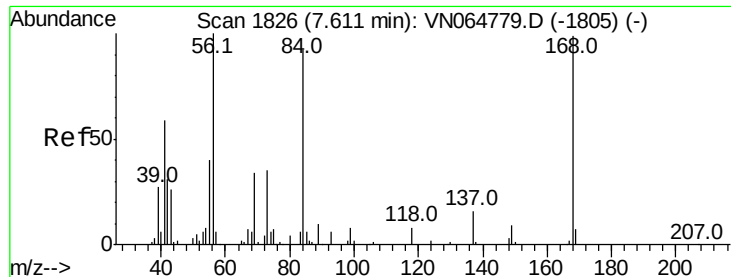
Tot Ion: 43 Resp: 2646
Ion Ratio Lower Upper
43 100
72 18.4 21.0 31.6#



#29
Tetrahydrofuran
Concen: 1.134 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. -0.00 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Tgt Ion: 42 Resp: 806
Ion Ratio Lower Upper
42 100
72 19.6 36.6 54.8#
71 11.7 33.6 50.4#

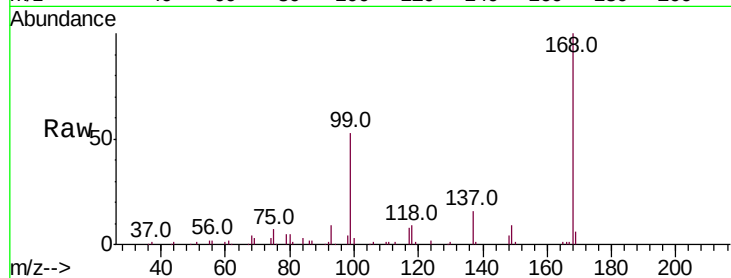




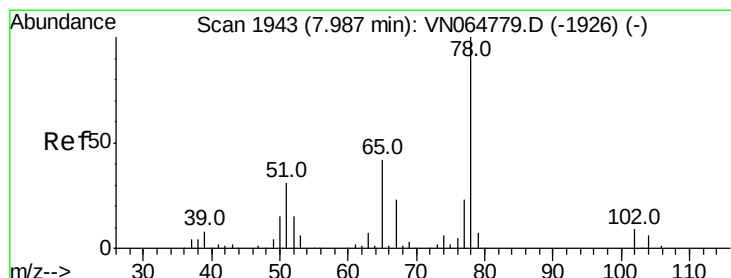
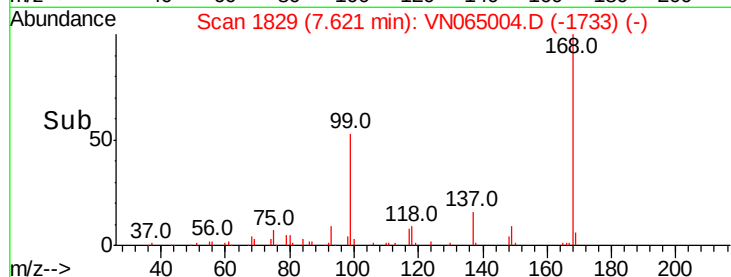
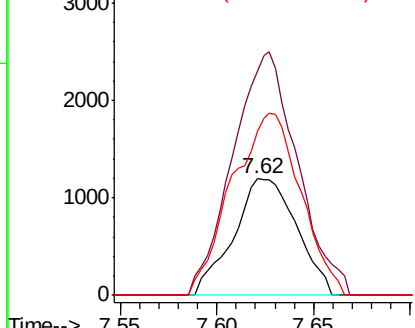
#31
Cyclohexane
Concen: 1.005 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Instrument :
MSVOA_N
ClientSampled :
4S1-B-TOP

Tot Ion: 56 Resp: 2707
Ion Ratio Lower Upper
56 100
69 193.4 27.5 41.3#
84 140.8 73.9 110.9#

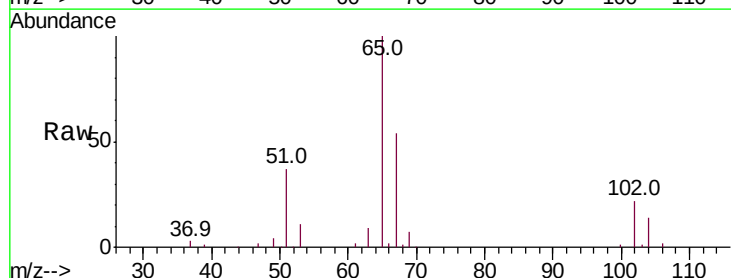


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

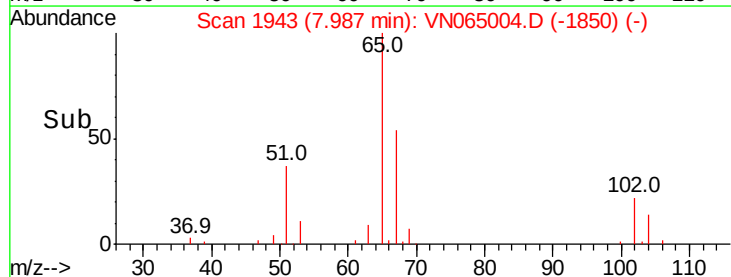
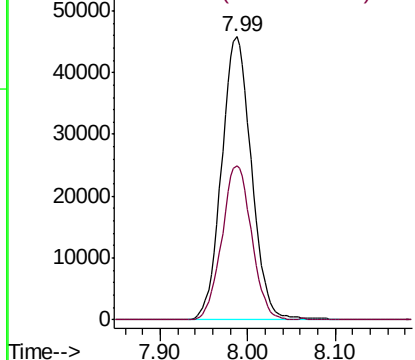


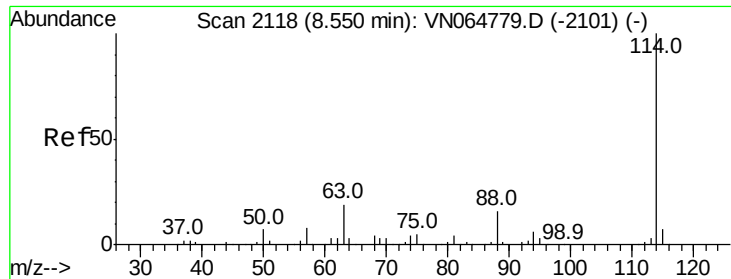
#33
1,2-Dichloroethane-d4
Concen: 56.040 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Tgt Ion: 65 Resp: 108304
Ion Ratio Lower Upper
65 100
67 54.2 0.0 108.2



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

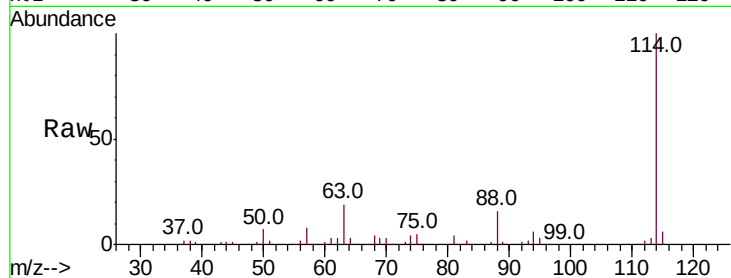




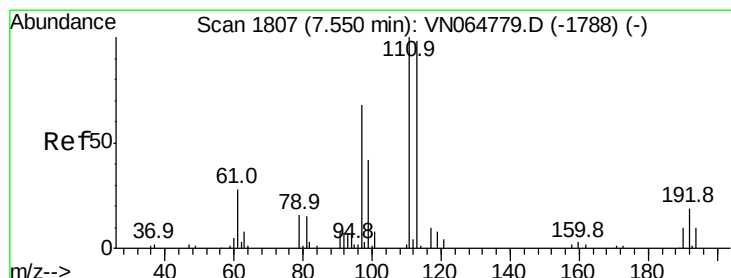
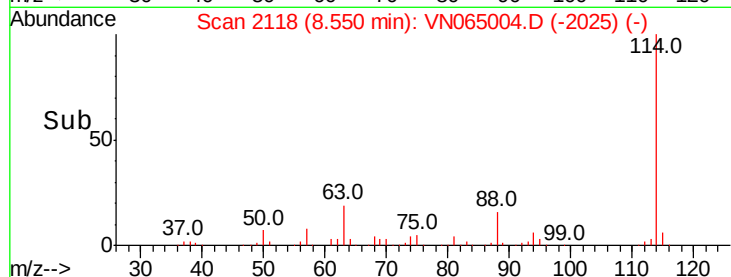
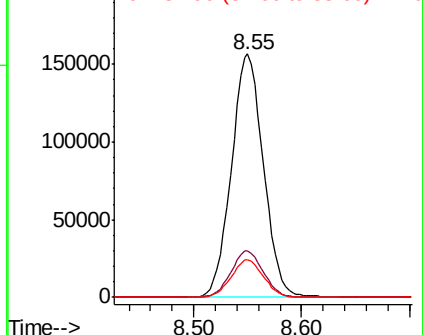
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065004.D
 Acq: 9 Dec 2020 6:16

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-B-TOP

Tot Ion:114 Resp: 324144
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.5 0.0 32.6

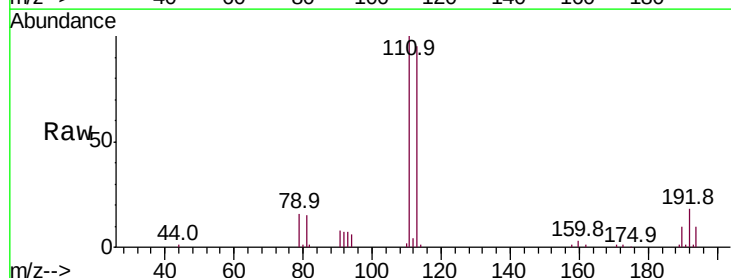


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

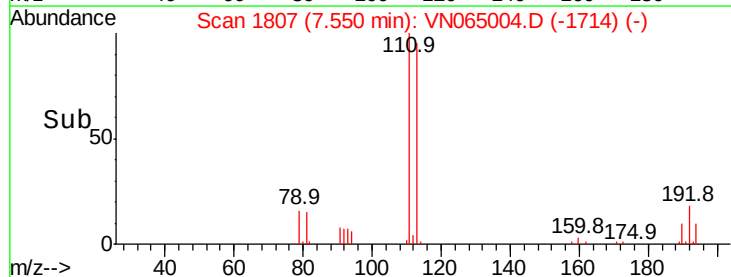
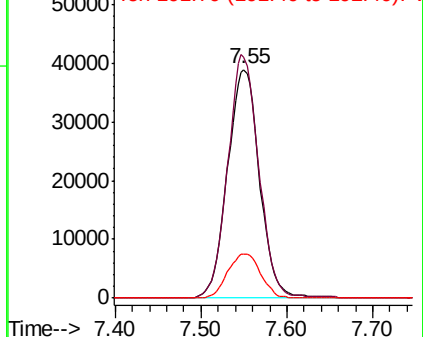


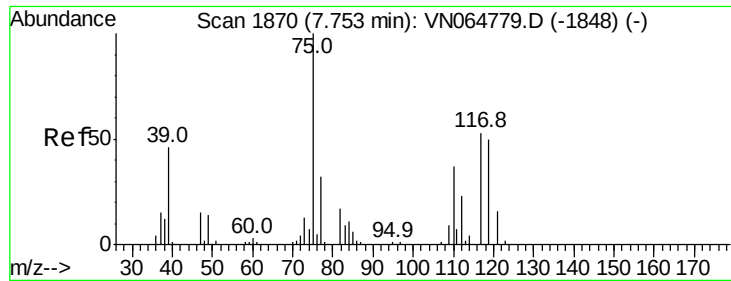
#35
 Dibromofluoromethane
 Concen: 51.910 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN065004.D
 Acq: 9 Dec 2020 6:16

Tgt Ion:113 Resp: 100684
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.6 122.4
 192 19.8 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

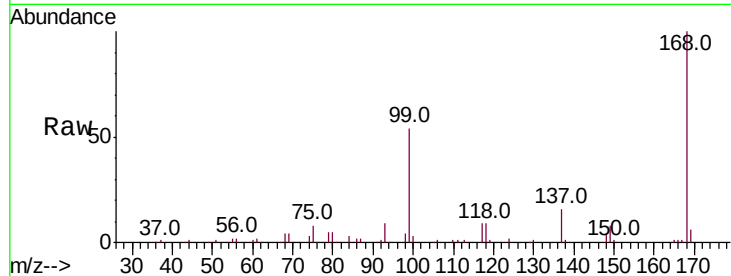




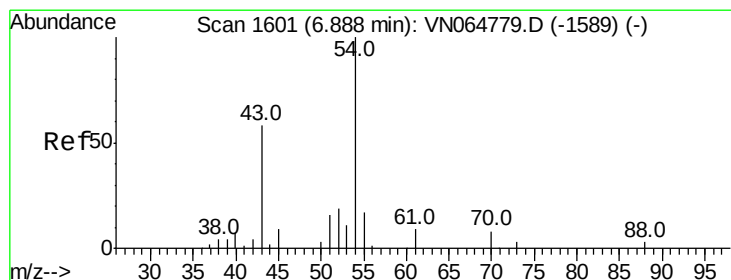
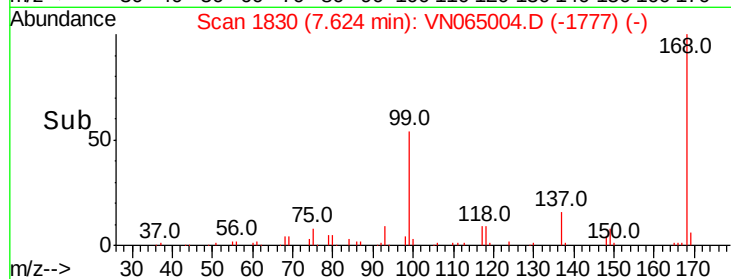
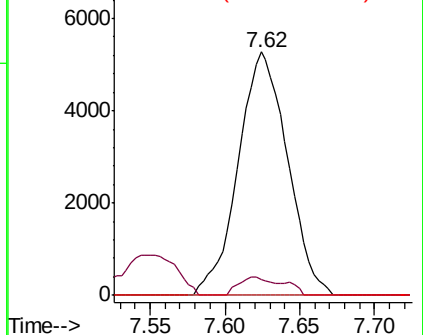
#36
 1,1-Dichloropropene
 Concen: 4.018 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN065004.D
 Acq: 9 Dec 2020 6:16

Instrument :
 MSVOA_N
 ClientSampled :
 4S1-B-TOP

Tot Ion: 75 Resp: 12073
 Ion Ratio Lower Upper
 75 100
 110 5.2 17.8 53.3#
 77 0.0 25.0 37.4#

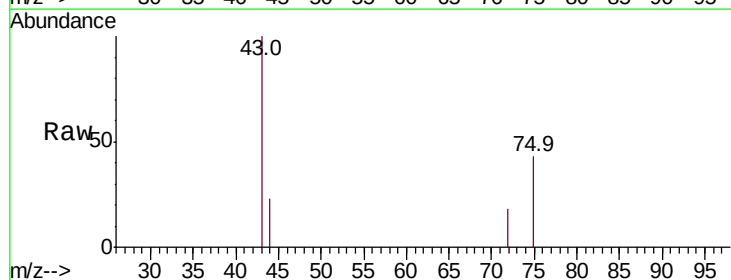


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

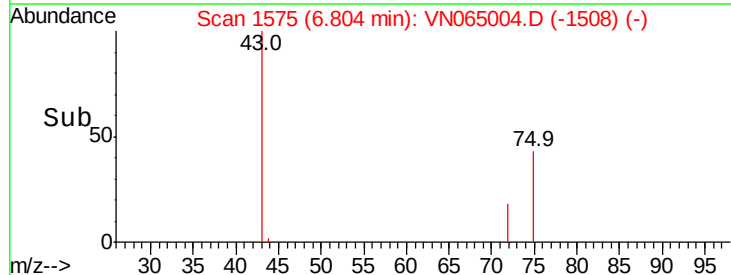
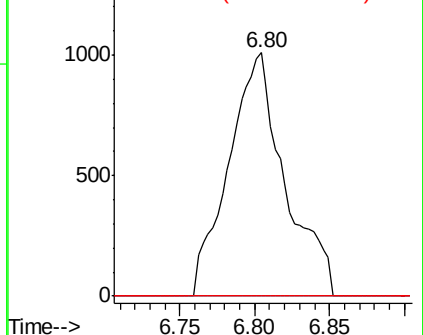


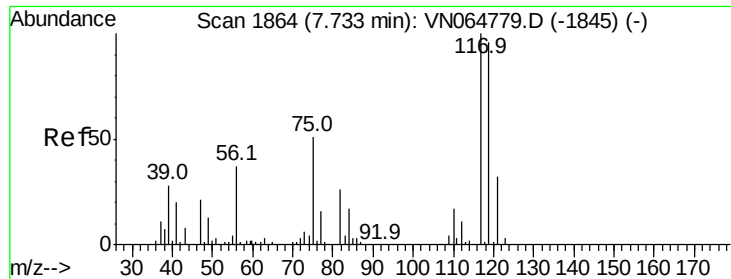
#37
 Ethyl Acetate
 Concen: 0.914 ug/l
 RT: 6.80 min Scan# 1575
 Delta R.T. -0.08 min
 Lab File: VN065004.D
 Acq: 9 Dec 2020 6:16

Tgt Ion: 43 Resp: 2646
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.8 19.2#
 70 0.0 8.8 13.2#



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

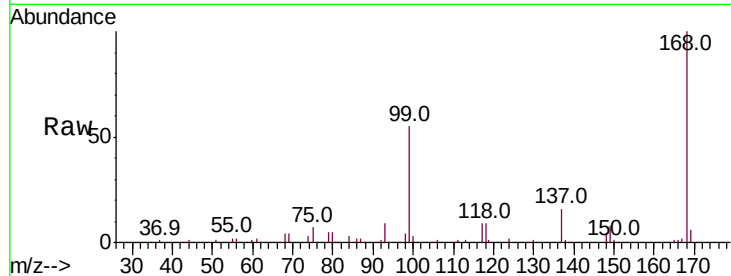




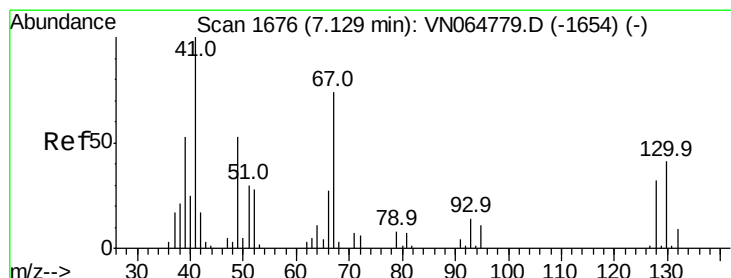
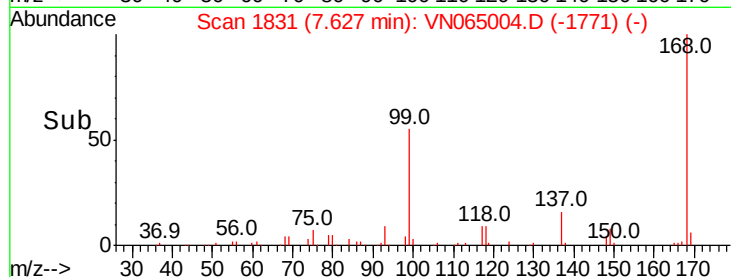
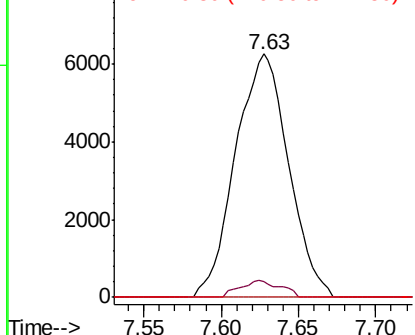
#38
Carbon Tetrachloride
Concen: 4.778 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Instrument :
MSVOA_N
ClientSampled :
4S1-B-TOP

Tot Ion:117 Resp: 14937
Ion Ratio Lower Upper
117 100
119 6.4 76.7 115.1#
121 0.0 25.4 38.2#

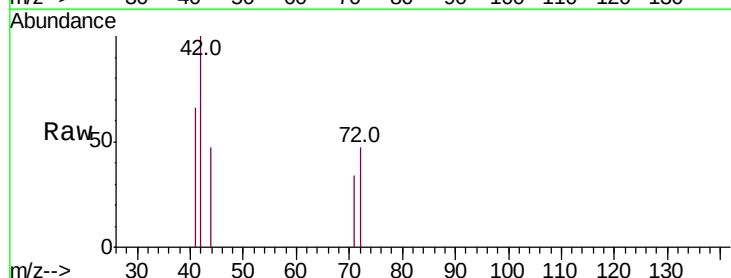


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

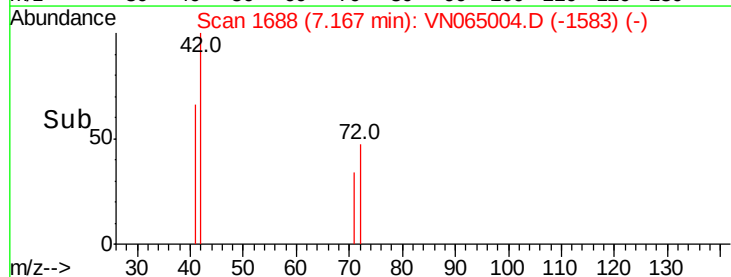
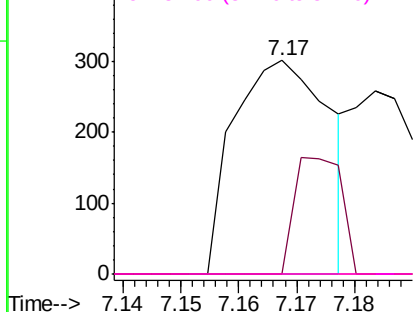


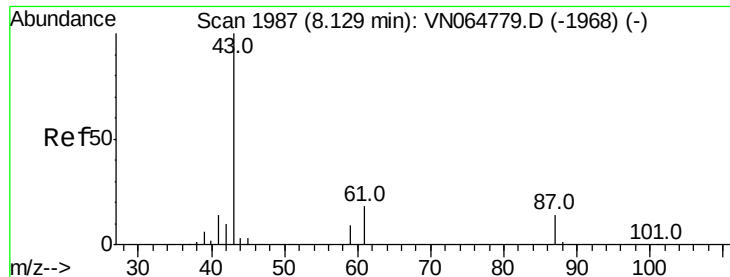
#41
Methacrylonitrile
Concen: 0.257 ug/l
RT: 7.17 min Scan# 1688
Delta R.T. 0.04 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Tgt Ion: 41 Resp: 343
Ion Ratio Lower Upper
41 100
39 27.1 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



Abundance Ion 41.00 (40.70 to 41.70): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 4.035 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN065004.D

Acq: 9 Dec 2020 6:16

Instrument :

MSVOA_N

ClientSampled :

4S1-B-TOP

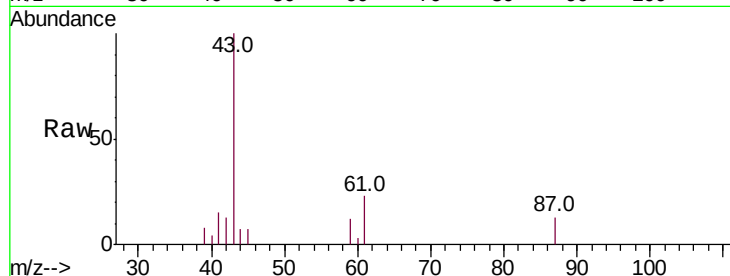
Tot Ion: 43 Resp: 18789

Ion Ratio Lower Upper

43 100

61 16.7 17.2 25.8#

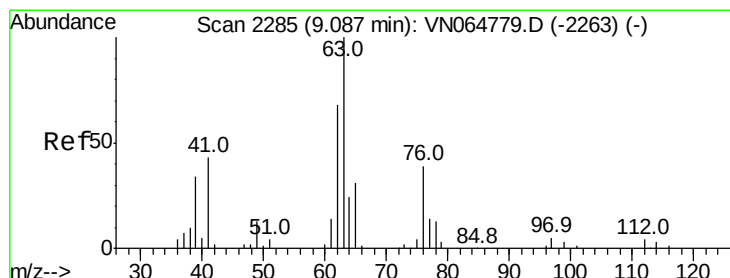
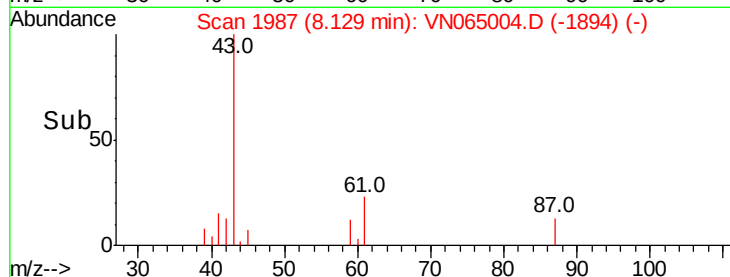
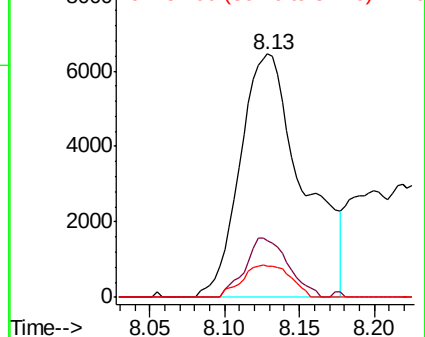
87 10.2 11.4 17.0#



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: 0.398 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN065004.D

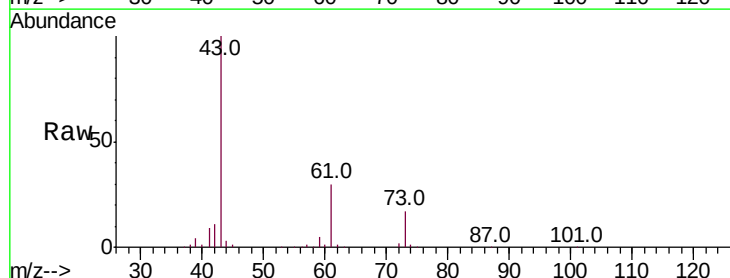
Acq: 9 Dec 2020 6:16

Tgt Ion: 63 Resp: 950

Ion Ratio Lower Upper

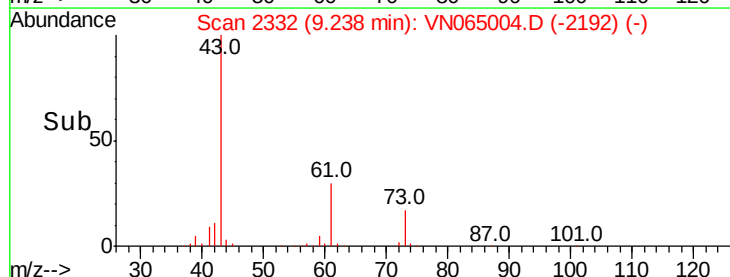
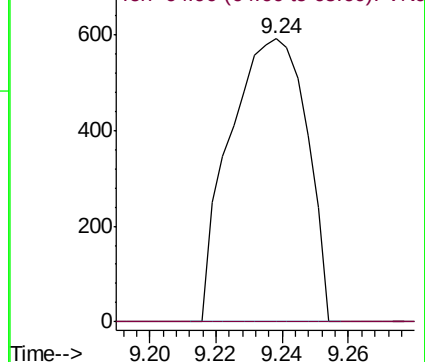
63 100

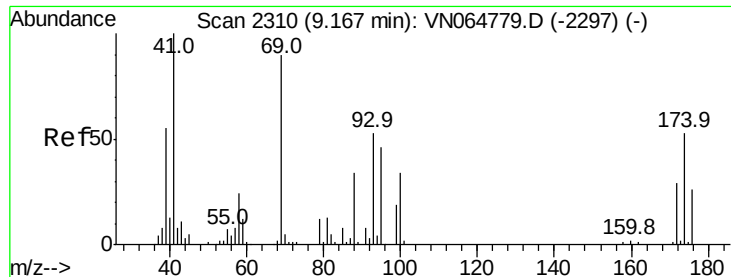
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

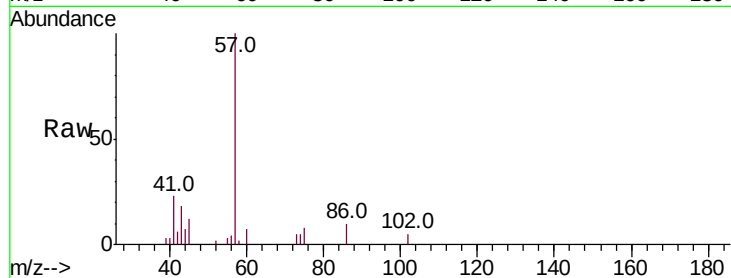




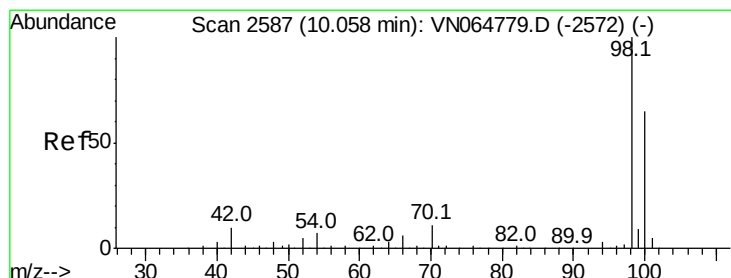
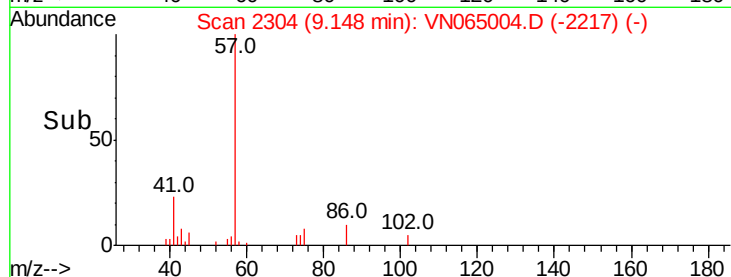
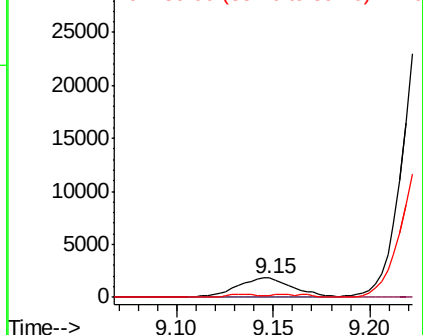
#48
Methvl methacrylate
Concen: 1.670 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Instrument :
MSVOA_N
ClientSampled :
4S1-B-TOP

Tot Ion: 41 Resp: 3716
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

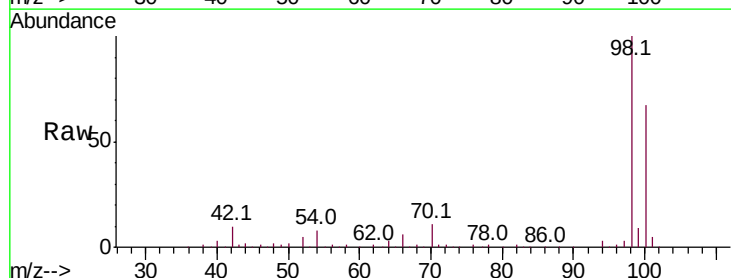


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

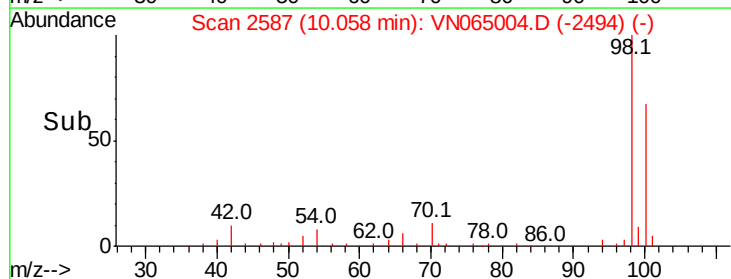
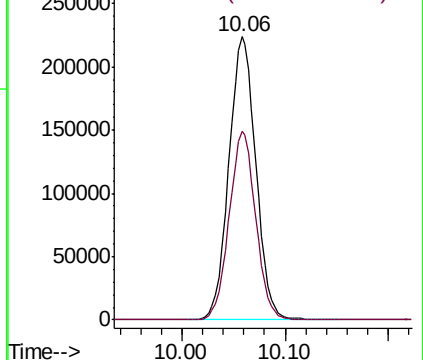


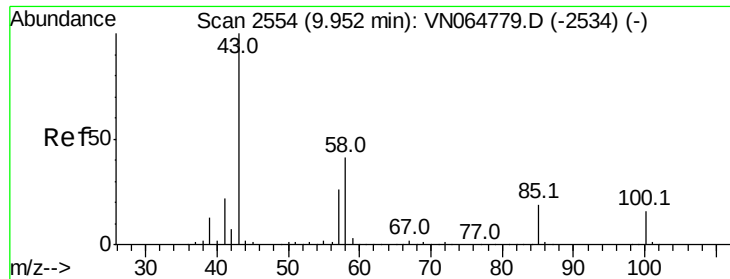
#50
Toluene-d8
Concen: 51.396 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Tgt Ion: 98 Resp: 407308
Ion Ratio Lower Upper
98 100
100 65.5 51.7 77.5



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

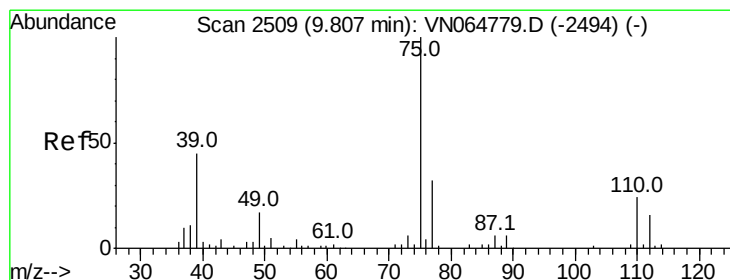
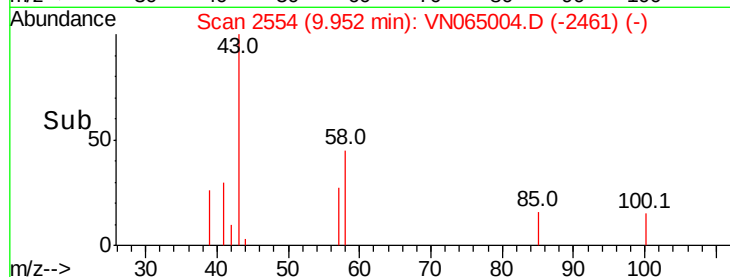
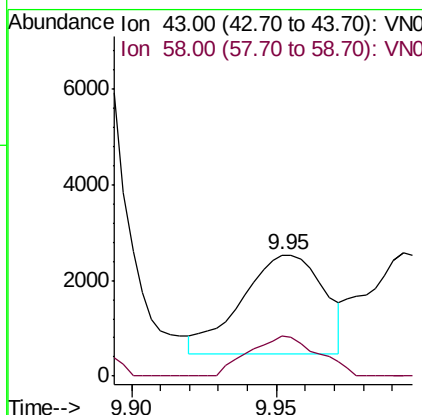
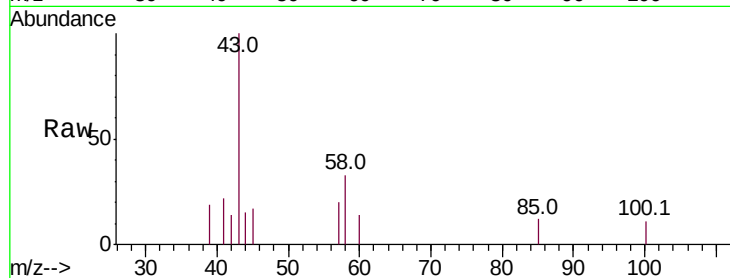




#51
4-Methyl-2-Pentanone
Concen: 1.462 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

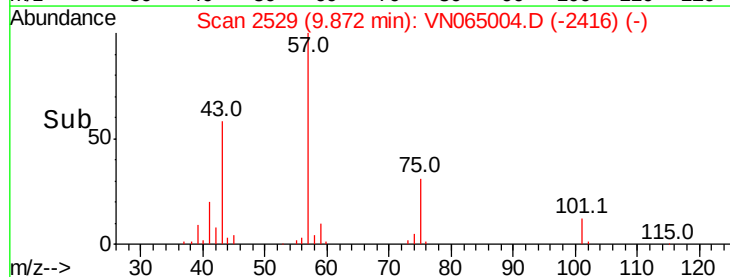
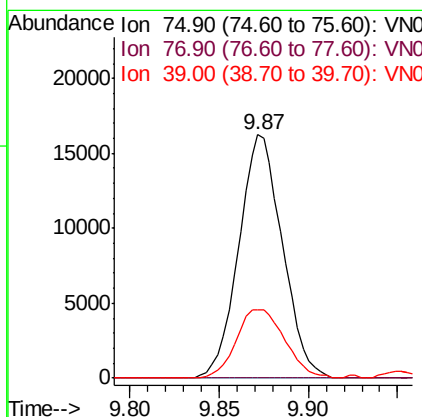
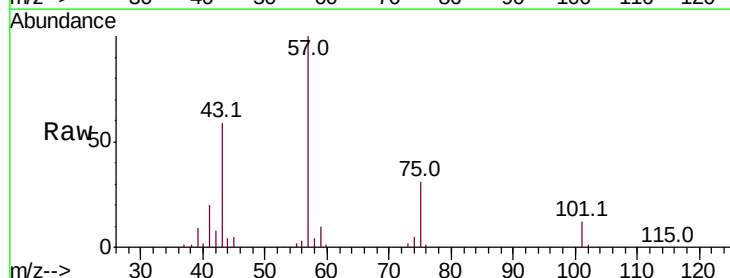
Instrument :
MSVOA_N
ClientSampled :
4S1-B-TOP

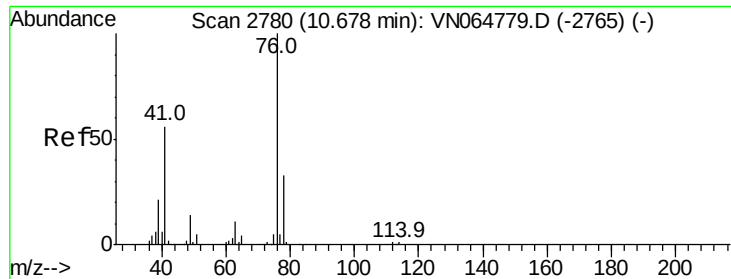
Tot Ion: 43 Resp: 4088
Ion Ratio Lower Upper
43 100
58 34.1 32.4 48.6



#54
cis-1,3-Dichloropropene
Concen: 7.237 ug/l
RT: 9.87 min Scan# 2529
Delta R.T. 0.06 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Tgt Ion: 75 Resp: 27692
Ion Ratio Lower Upper
75 100
77 0.0 25.5 38.3#
39 28.1 35.6 53.4#

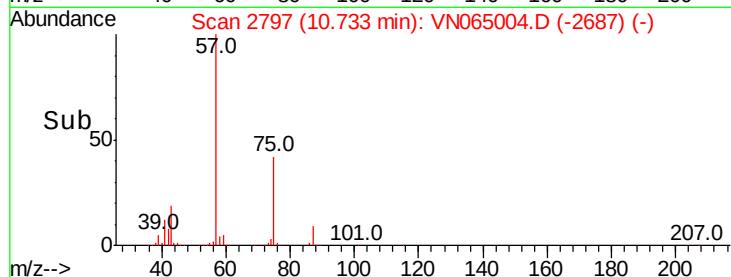
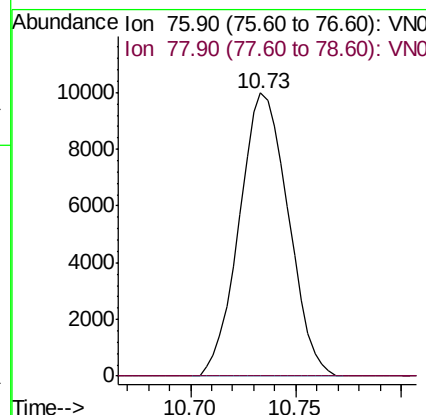
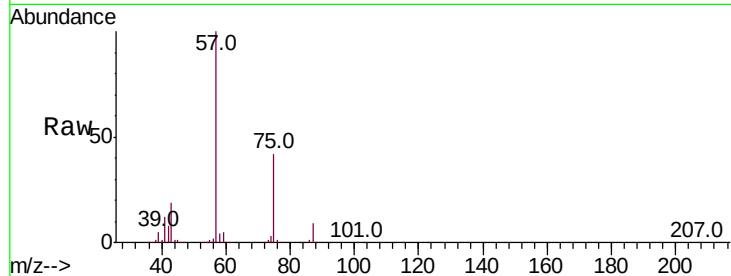




#57
 1,3-Dichloropropane
 Concen: 4.184 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN065004.D
 Acq: 9 Dec 2020 6:16

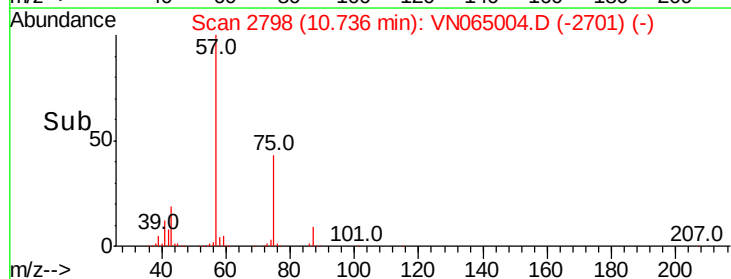
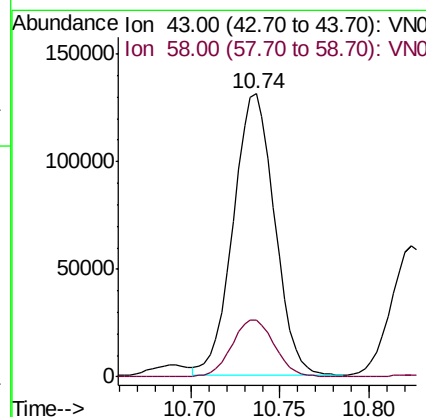
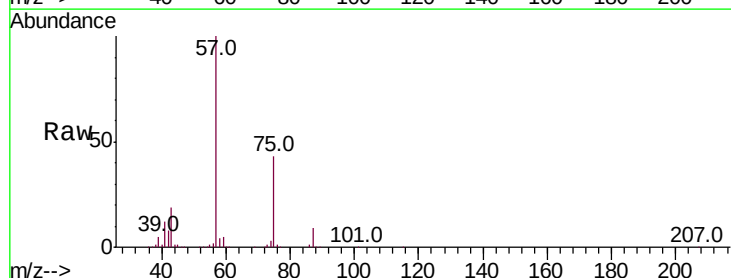
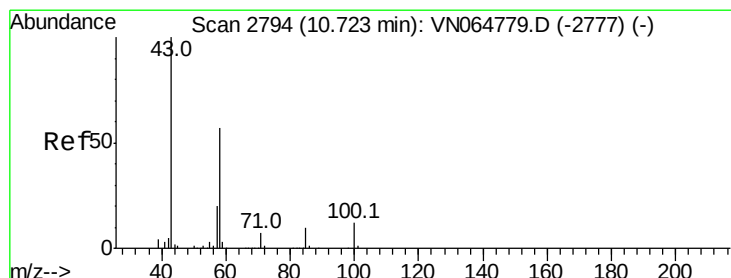
Instrument :
 MSVOA_N
 ClientSampled :
 4S1-B-TOP

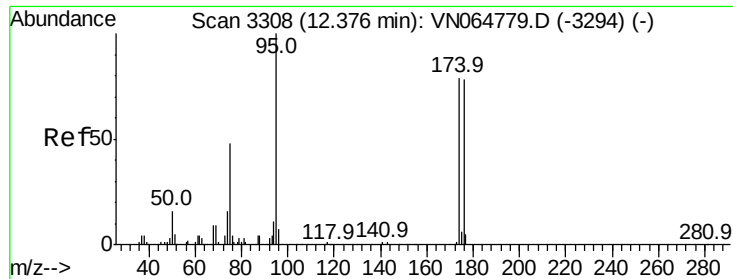
Tot Ion: 76 Resp: 16090
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 105.114 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.01 min
 Lab File: VN065004.D
 Acq: 9 Dec 2020 6:16

Tgt Ion: 43 Resp: 211501
 Ion Ratio Lower Upper
 43 100
 58 20.9 28.3 84.9#

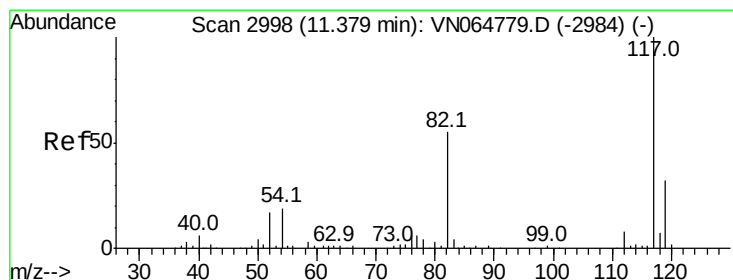
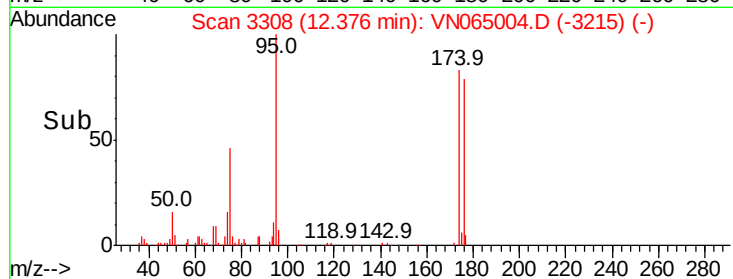
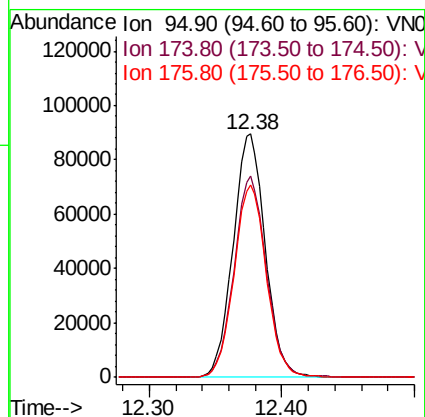
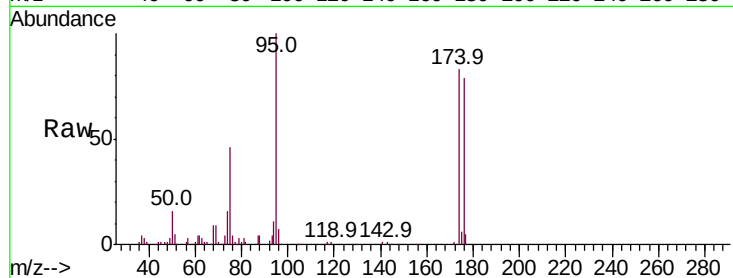




#62
4-Bromofluorobenzene
Concen: 53.124 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

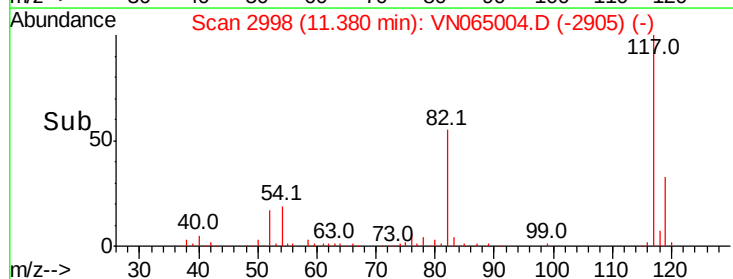
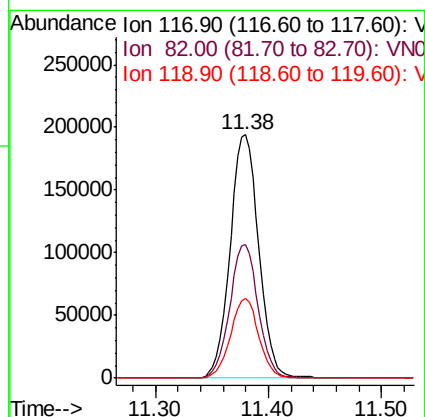
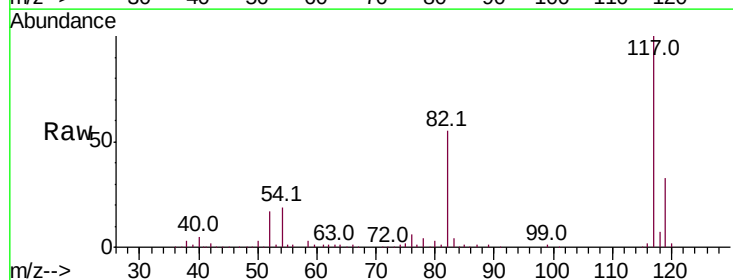
Instrument :
MSVOA_N
ClientSampleId :
4S1-B-TOP

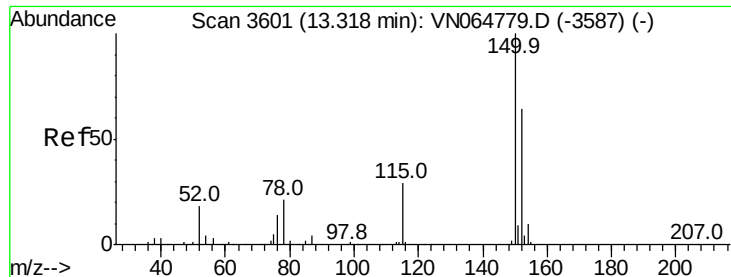
Tot Ion	95	Resp	150670
Ion Ratio	100		
Lower			
Upper			
174	83.1	0.0	160.4
176	79.5	0.0	158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065004.D
Acq: 9 Dec 2020 6:16

Tgt Ion	117	Resp	341676
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td></td> <td></td> <td></td>			
Upper <td></td> <td></td> <td></td>			
82	54.9	44.2	66.2
119	32.8	25.8	38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN065004.D

Acq: 9 Dec 2020 6:16

Instrument :

MSVOA_N

ClientSampled :

4S1-B-TOP

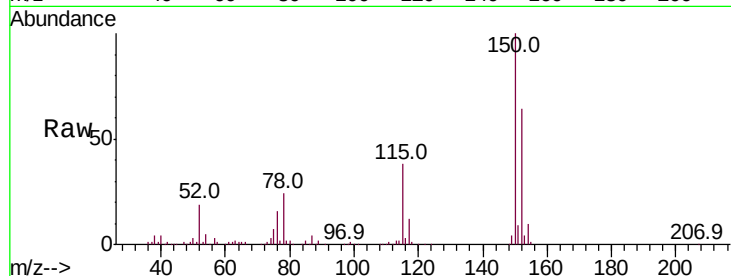
Tot Ion:152 Resp: 142632

Ion Ratio Lower Upper

152 100

115 58.1 29.7 89.1

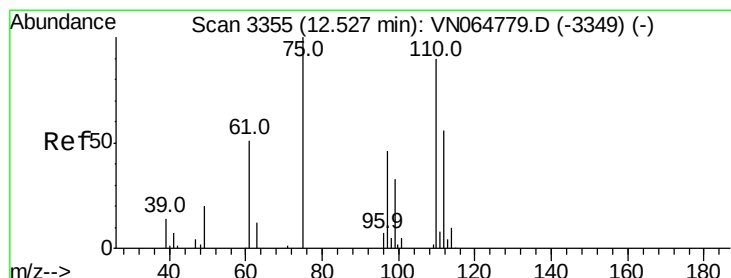
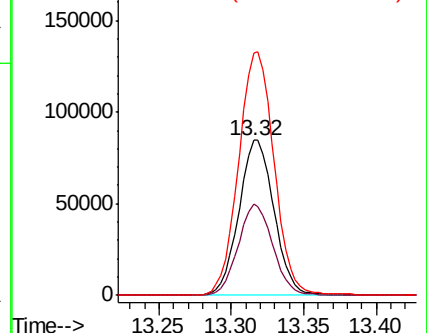
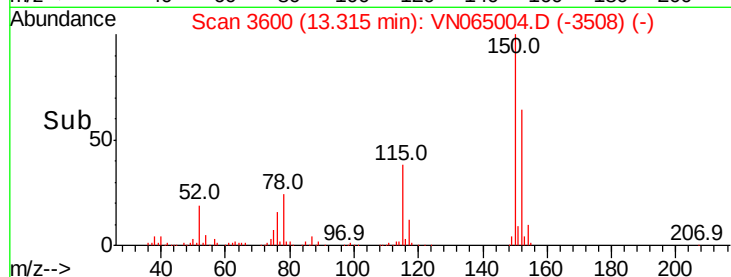
150 158.8 0.0 350.6



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: 23.504 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN065004.D

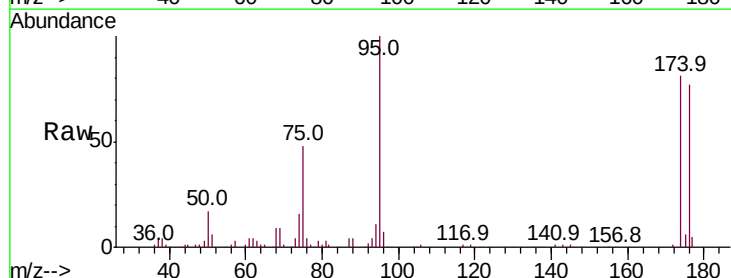
Acq: 9 Dec 2020 6:16

Tgt Ion: 75 Resp: 72198

Ion Ratio Lower Upper

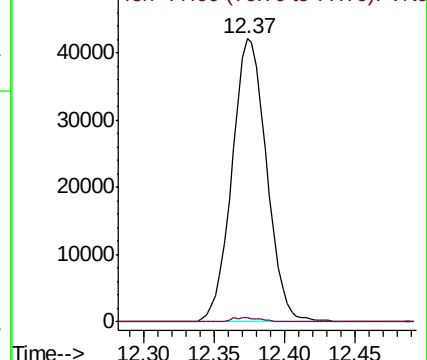
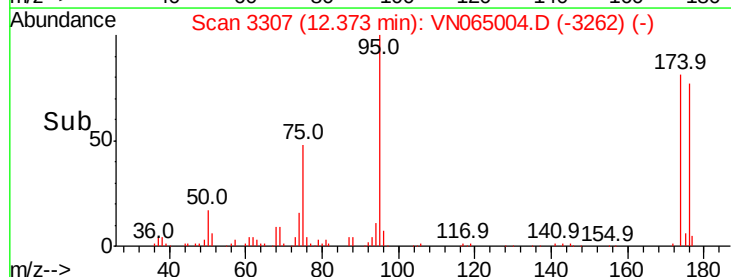
75 100

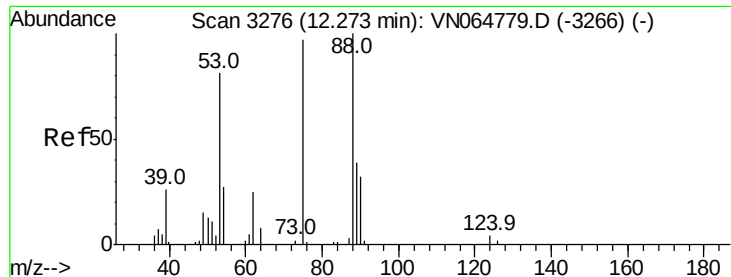
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 64.420 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN065004.D

Acq: 9 Dec 2020 6:16

Instrument :

MSVOA_N

ClientSampleId :

4S1-B-TOP

Tot Ion: 75 Resp: 72198

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

