

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN065003.D
 Acq On : 9 Dec 2020 5:51
 Operator : JC/MD
 Sample : L4970-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-A-BOTTOM

Quant Time: Dec 09 08:01:09 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	162279	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	314720	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	330043	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	137199	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	106045	56.21	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	112.42%
35) Dibromofluoromethane	7.55	113	98585	52.35	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	104.70%
50) Toluene-d8	10.06	98	393579	51.15	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.30%
62) 4-Bromofluorobenzene	12.38	95	145261	52.75	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	105.50%

Target Compounds

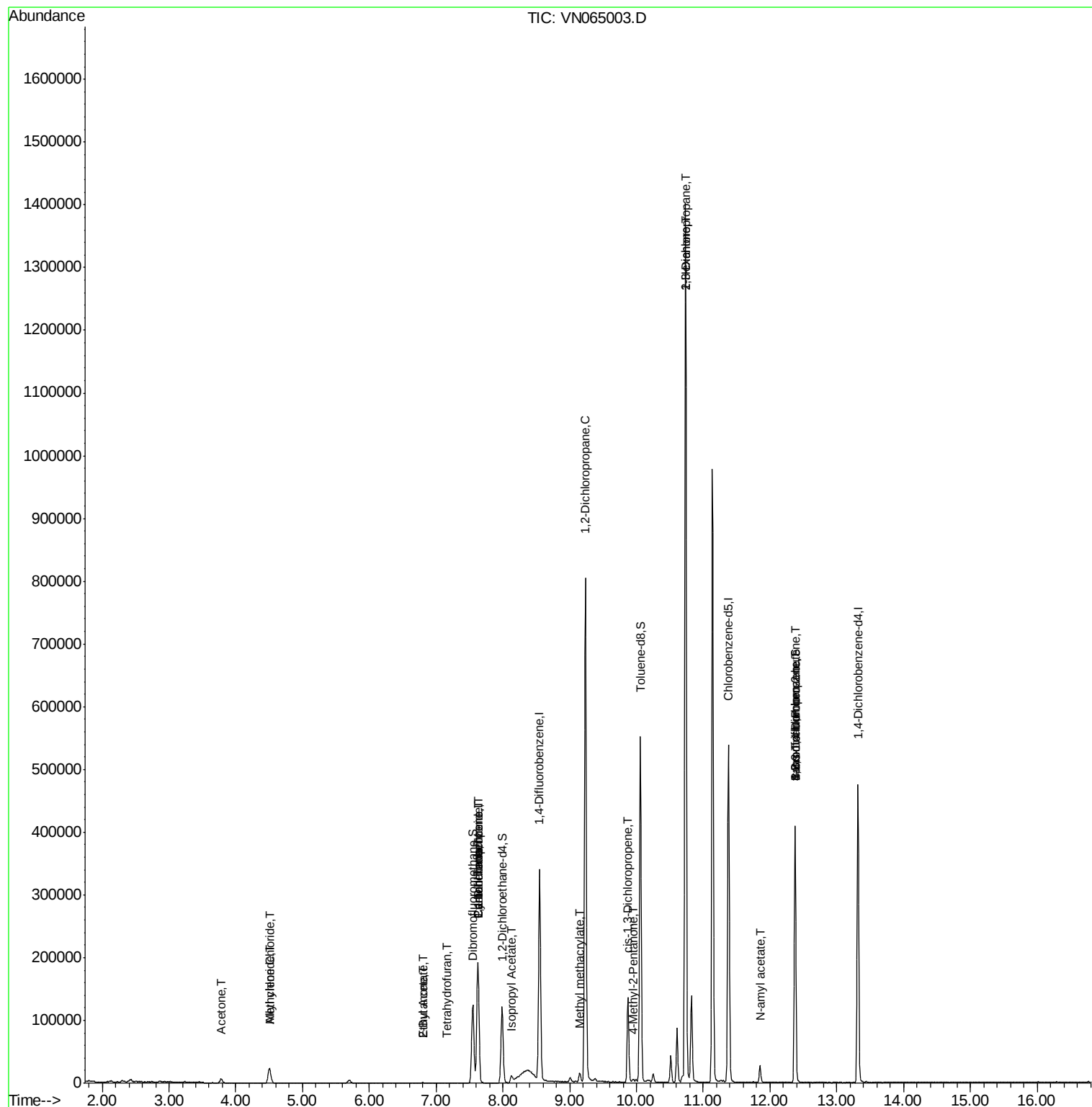
					Qvalue	
14) Allyl chloride	4.50	41	526	0.203	ug/l #	26
16) Acetone	3.78	43	11636	18.762	ug/l	99
20) Methylene Chloride	4.50	84	18611	9.577	ug/l	89
25) 2-Butanone	6.80	43	1212	1.206	ug/l #	49
29) Tetrahydrofuran	7.16	42	158	0.228	ug/l #	32
31) Cyclohexane	7.63	56	2933	1.115	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11731	4.021	ug/l #	48
37) Ethyl Acetate	6.80	43	1212	0.431	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15222	5.015	ug/l #	17
43) Isopropyl Acetate	8.13	43	15236	3.370	ug/l #	93
45) 1,2-Dichloropropane	9.23	63	941	0.406	ug/l #	43
48) Methyl methacrylate	9.14	41	3420	1.583	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3468	1.278	ug/l	95
54) cis-1,3-Dichloropropene	9.87	75	25412	6.840	ug/l #	65
57) 1,3-Dichloropropane	10.74	76	14990	4.014	ug/l #	42
59) 2-Hexanone	10.74	43	192733	98.655	ug/l #	51
71) Bromoform	12.38	173	1298	0.624	ug/l #	1
74) N-amyl acetate	11.85	43	7776	2.071	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	68615	23.222	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	68615	63.647	ug/l #	15

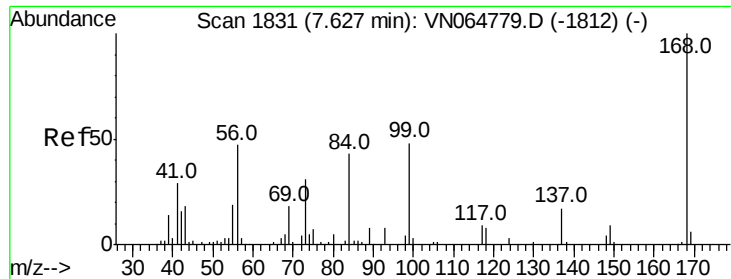
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN065003.D

Acq: 9 Dec 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

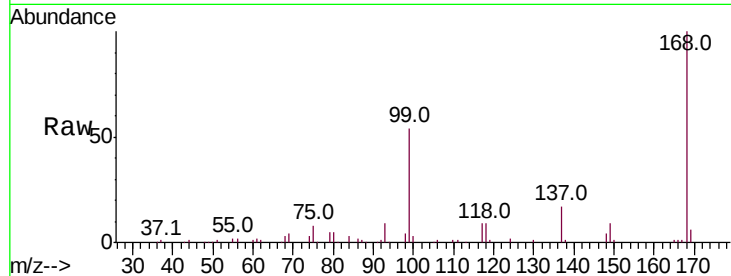
4S1-A-BOTTOM

Tot Ion:168 Resp: 162279

Ion Ratio Lower Upper

168 100

99 54.0 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

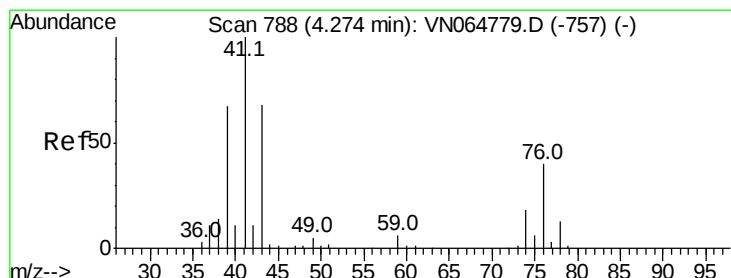
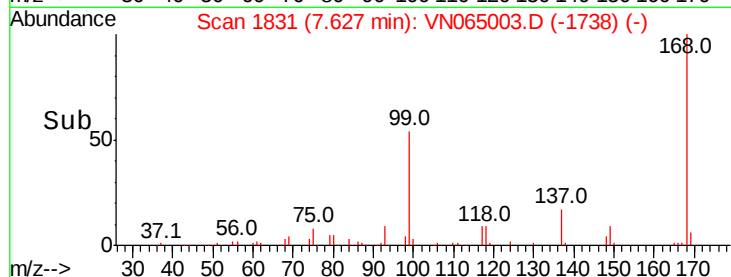
40000

20000

0

7.50 7.60 7.70

Time-->



#14

Allyl chloride

Concen: 0.203 ug/l

RT: 4.50 min Scan# 858

Delta R.T. 0.23 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

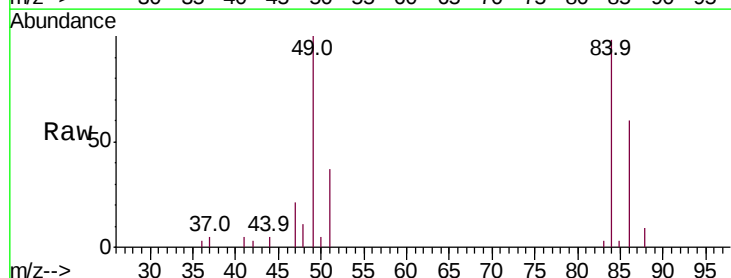
Tgt Ion: 41 Resp: 526

Ion Ratio Lower Upper

41 100

39 0.0 50.9 76.3#

76 0.0 29.0 43.4#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

4.50

300

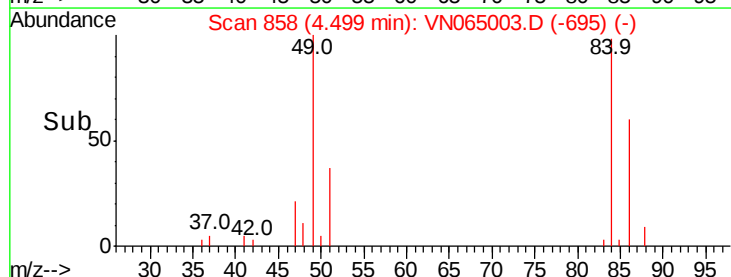
200

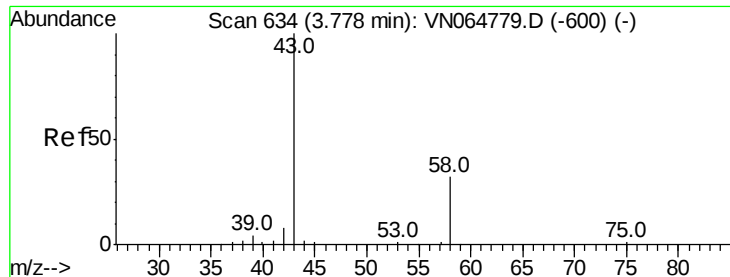
100

0

4.48 4.50 4.52 4.54

Time-->





#16

Acetone

Concen: 18.762 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

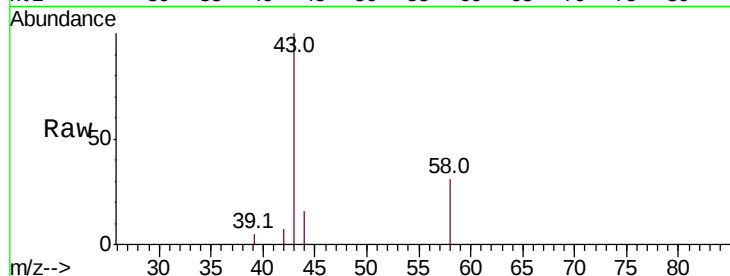
Instrument :
MSVOA_N
ClientSampleId :
4S1-A-BOTTOM

Tot Ion: 43 Resp: 11636

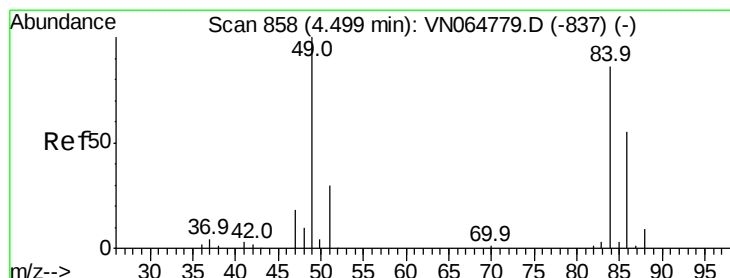
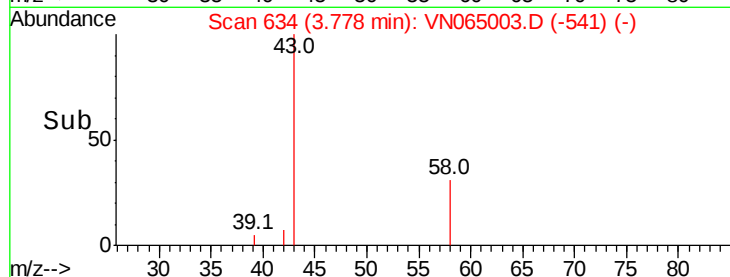
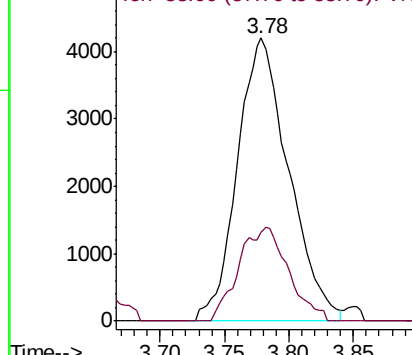
Ion Ratio Lower Upper

43 100

58 31.3 25.7 38.5



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



#20

Methylene Chloride

Concen: 9.577 ug/l

RT: 4.50 min Scan# 857

Delta R.T. -0.00 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

Tgt Ion: 84 Resp: 18611

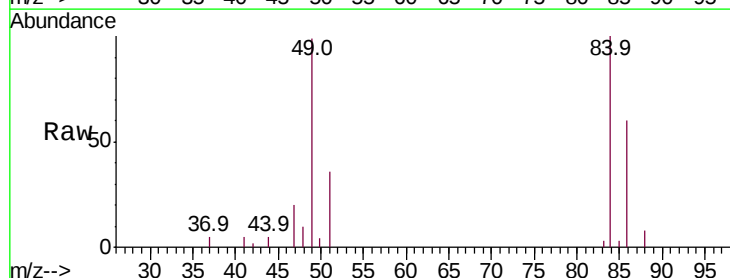
Ion Ratio Lower Upper

84 100

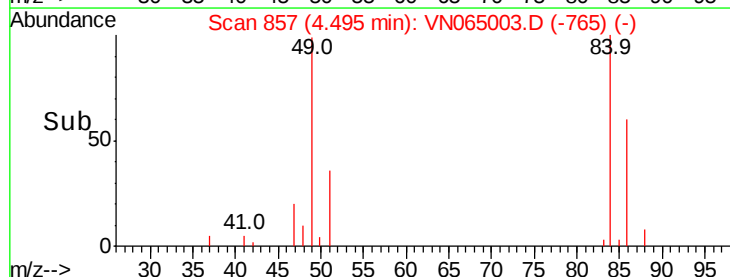
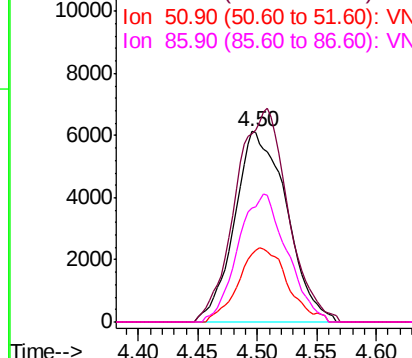
49 99.0 93.4 140.0

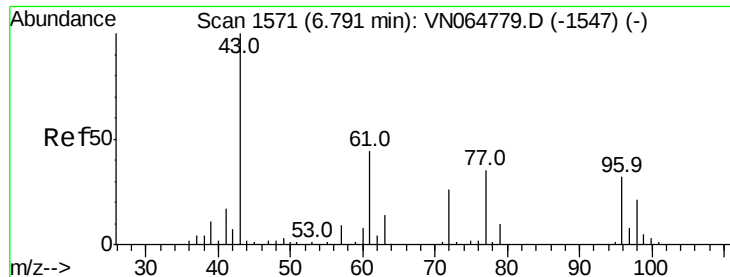
51 35.6 28.2 42.4

86 59.6 51.7 77.5



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

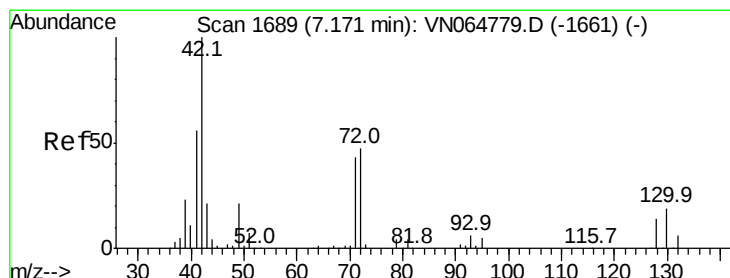
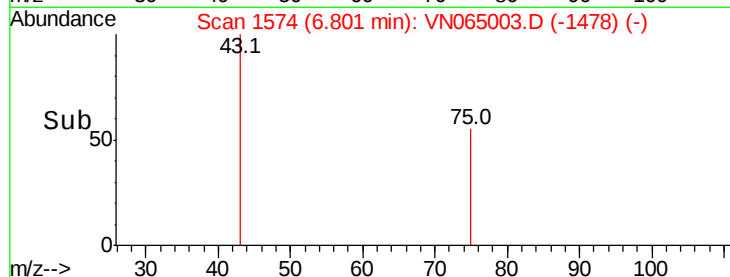
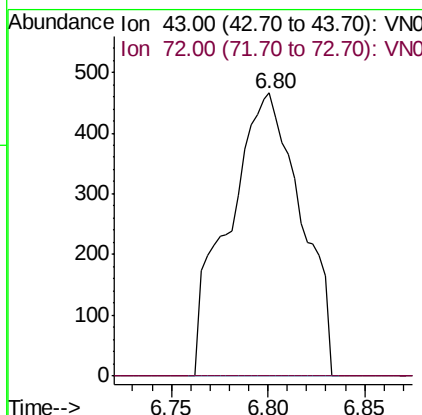
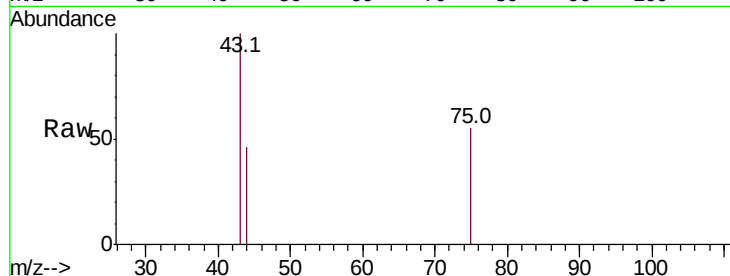




#25
2-Butanone
Concen: 1.206 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN065003.D
Acq: 9 Dec 2020 5:51

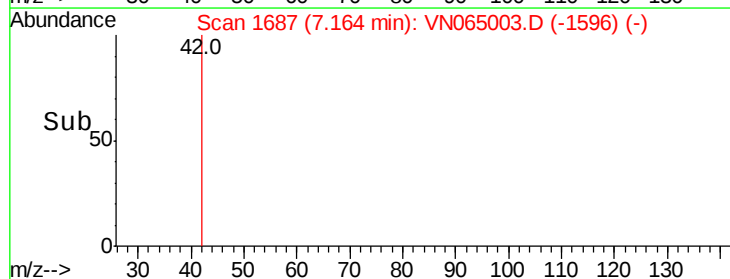
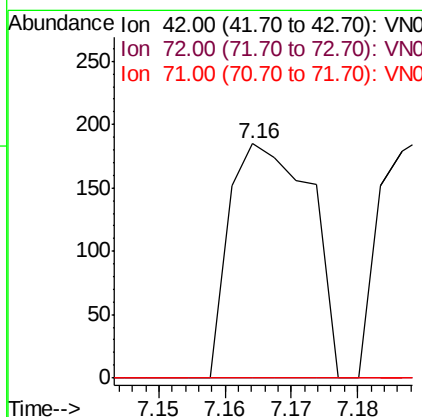
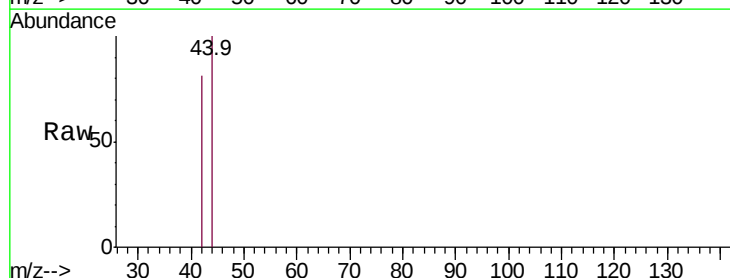
Instrument :
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4S1-A-BOTTOM

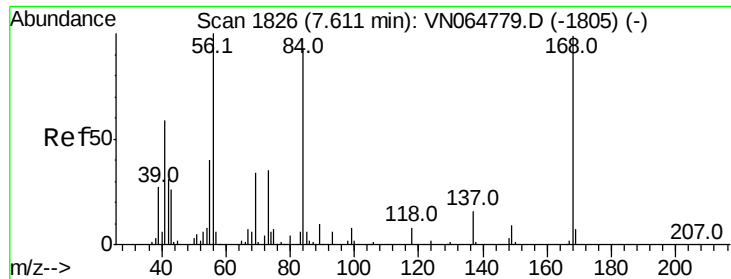
Tot Ion: 43 Resp: 1212
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



#29
Tetrahydrofuran
Concen: 0.228 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. -0.01 min
Lab File: VN065003.D
Acq: 9 Dec 2020 5:51

Tgt Ion: 42 Resp: 158
Ion Ratio Lower Upper
42 100
72 0.0 36.6 54.8#
71 0.0 33.6 50.4#

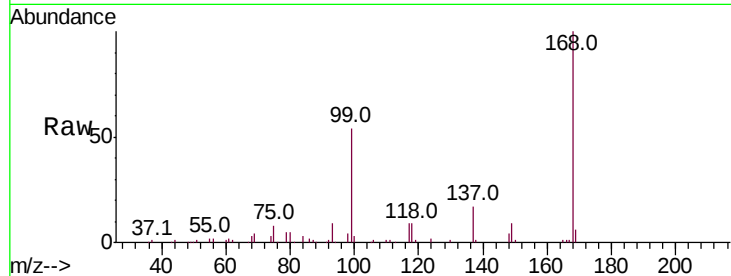




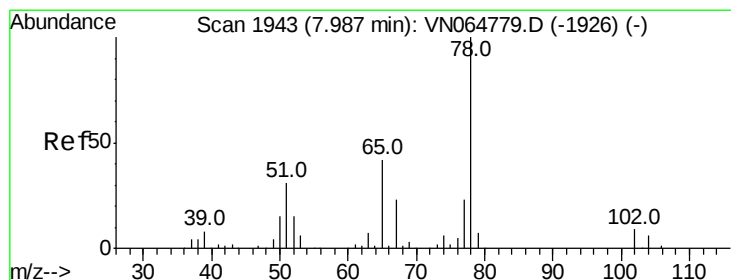
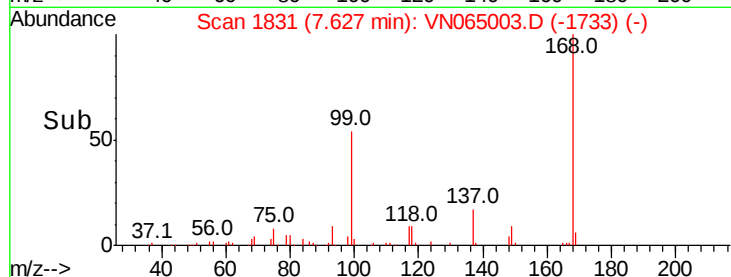
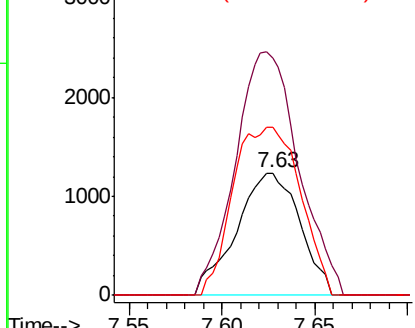
#31
Cyclohexane
Concen: 1.115 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.02 min
Lab File: VN065003.D
Acq: 9 Dec 2020 5:51

Instrument :
MSVOA_N
ClientSampleId :
4S1-A-BOTTOM

Tot Ion: 56 Resp: 2933
Ion Ratio Lower Upper
56 100
69 194.9 27.5 41.3#
84 137.5 73.9 110.9#

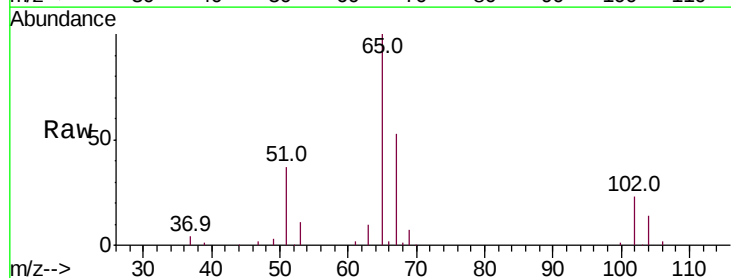


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

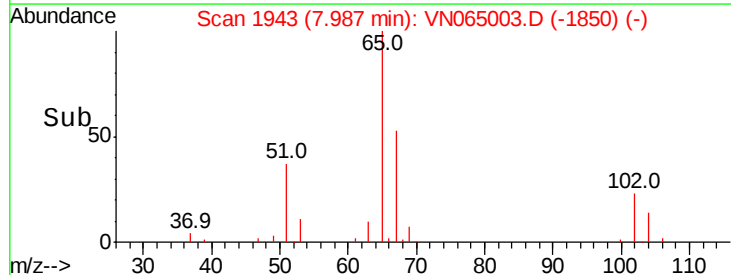
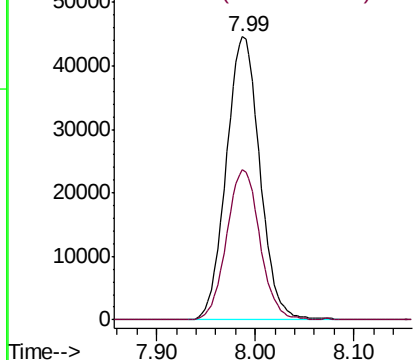


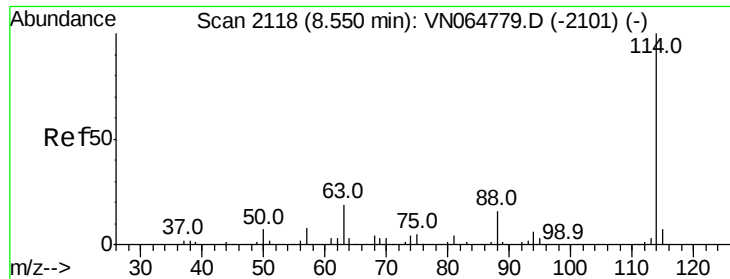
#33
1,2-Dichloroethane-d4
Concen: 56.210 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN065003.D
Acq: 9 Dec 2020 5:51

Tgt Ion: 65 Resp: 106045
Ion Ratio Lower Upper
65 100
67 52.5 0.0 108.2



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

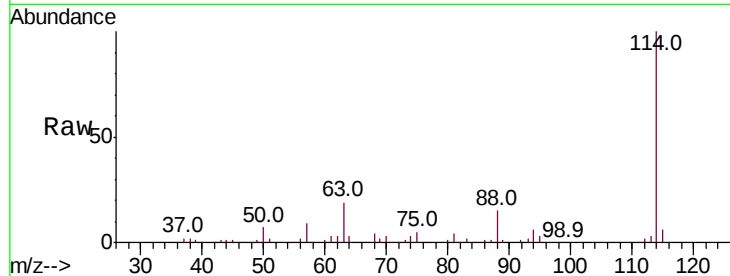




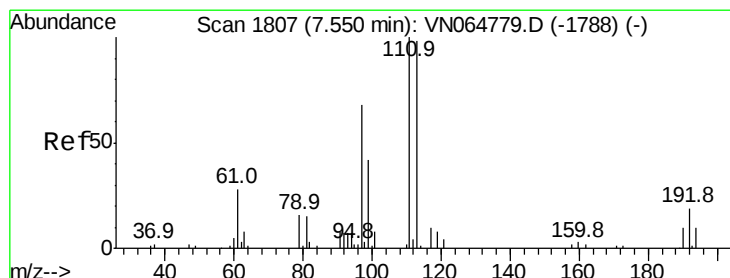
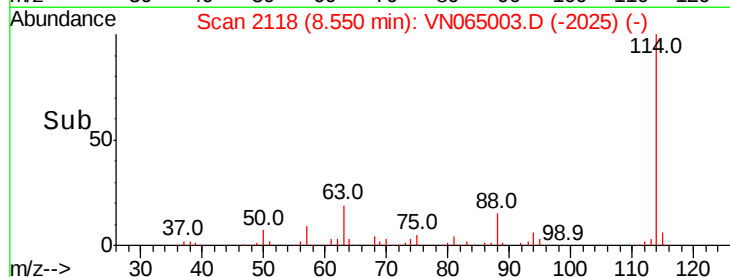
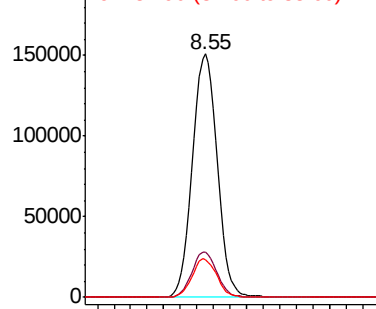
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065003.D
 Acq: 9 Dec 2020 5:51

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-A-BOTTOM

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	38.6
88	15.4	0.0	32.6

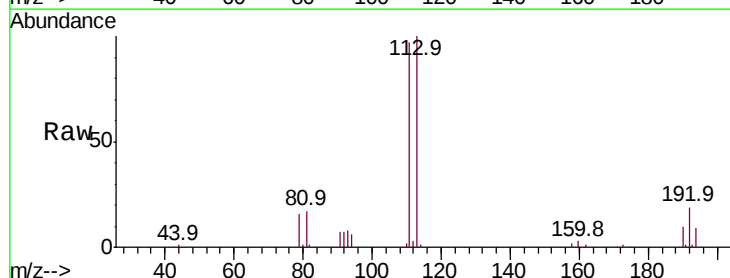


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

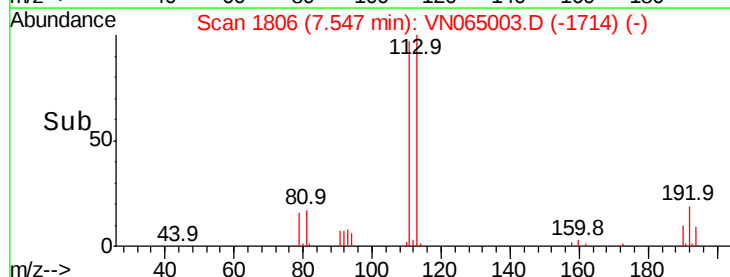
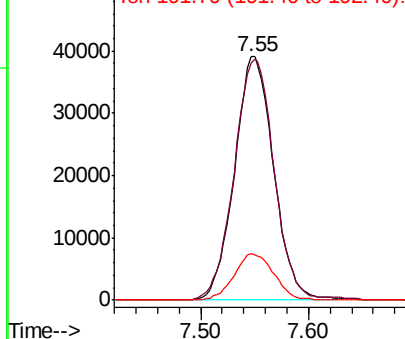


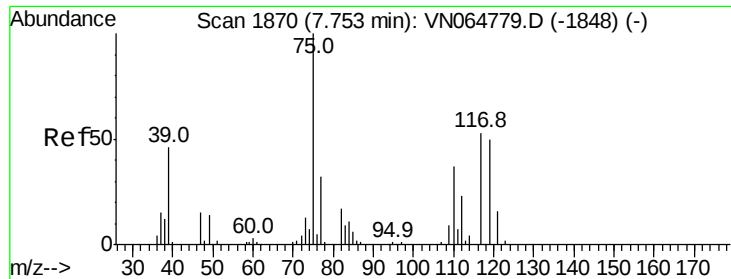
#35
 Dibromofluoromethane
 Concen: 52.350 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. -0.00 min
 Lab File: VN065003.D
 Acq: 9 Dec 2020 5:51

Tgt Ion	Ratio	Lower	Upper
113	100		
111	100.9	81.6	122.4
192	19.3	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

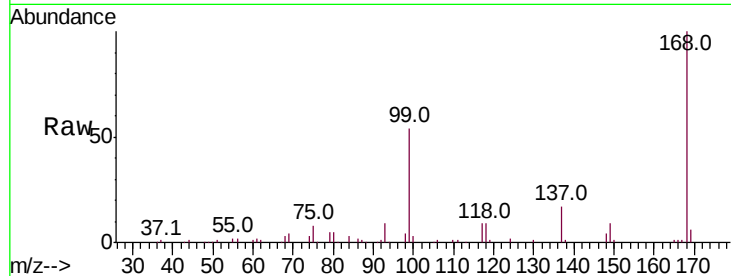




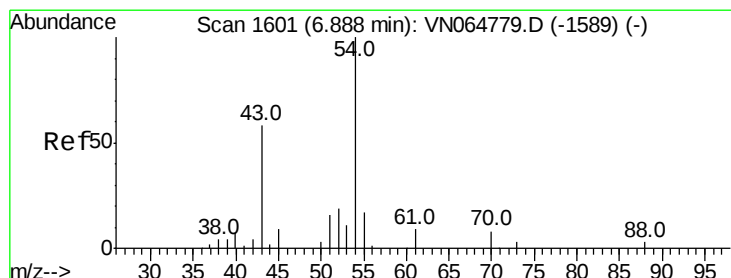
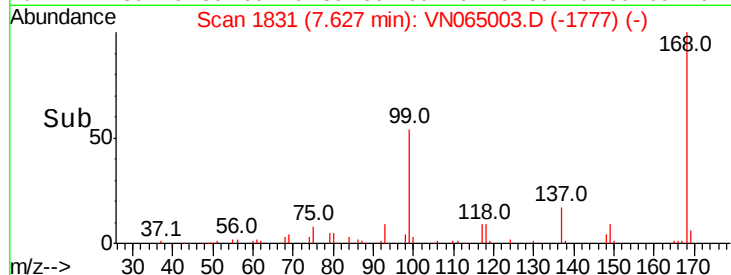
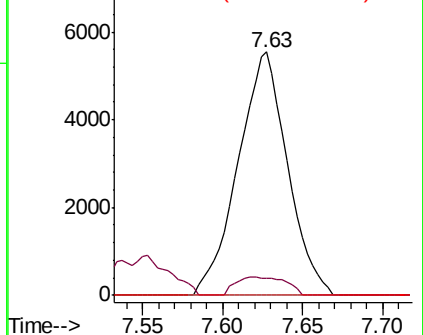
#36
 1,1-Dichloropropene
 Concen: 4.021 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN065003.D
 Acq: 9 Dec 2020 5:51

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-A-BOTTOM

Tot Ion: 75 Resp: 11731
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.8 53.3#
 77 0.0 25.0 37.4#

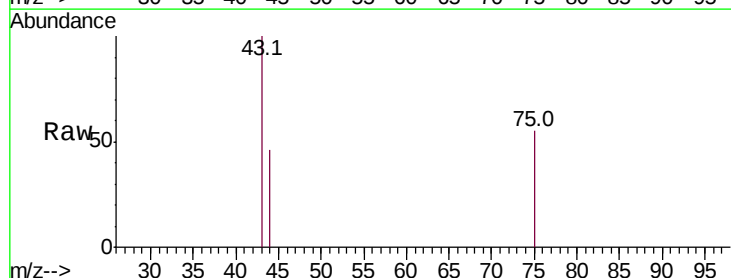


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

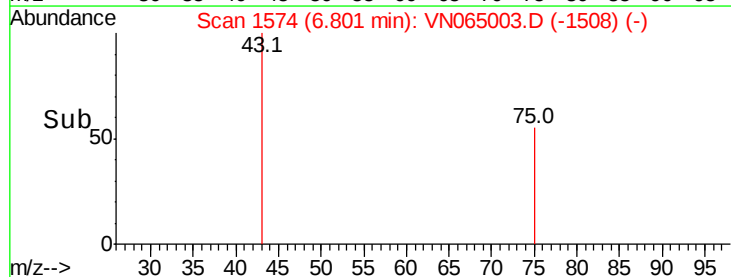
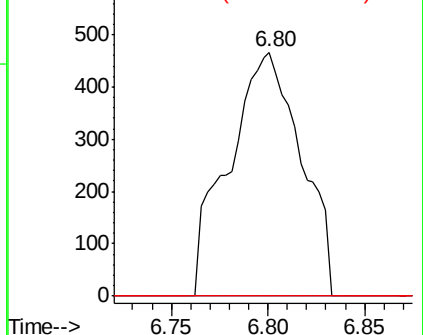


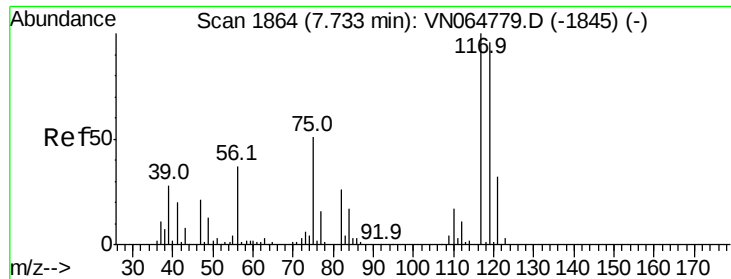
#37
 Ethyl Acetate
 Concen: 0.431 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. -0.09 min
 Lab File: VN065003.D
 Acq: 9 Dec 2020 5:51

Tgt Ion: 43 Resp: 1212
 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: 5.015 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

4S1-A-BOTTOM

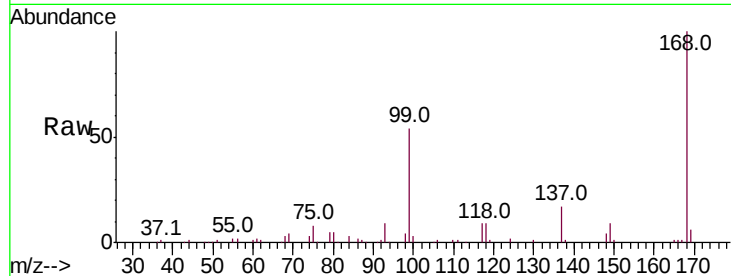
Tot Ion:117 Resp: 15222

Ion Ratio Lower Upper

117 100

119 5.9 76.7 115.1#

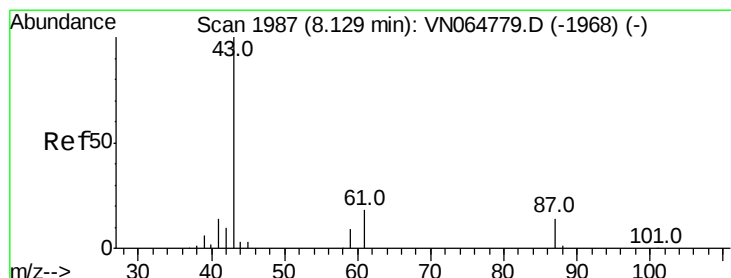
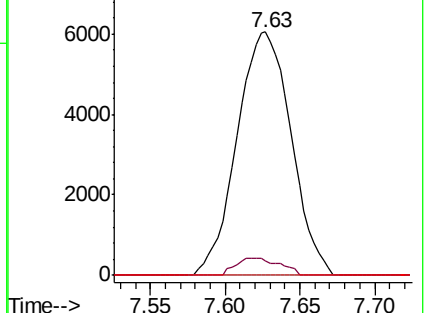
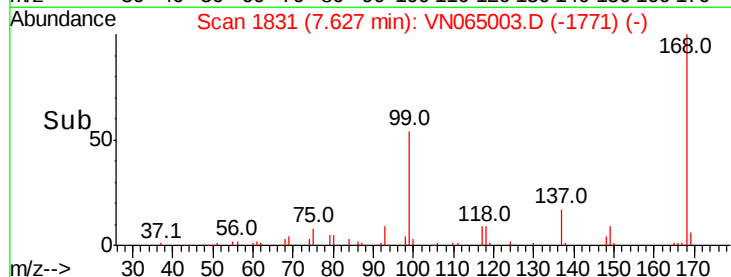
121 0.0 25.4 38.2#



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



#43

Isopropyl Acetate

Concen: 3.370 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

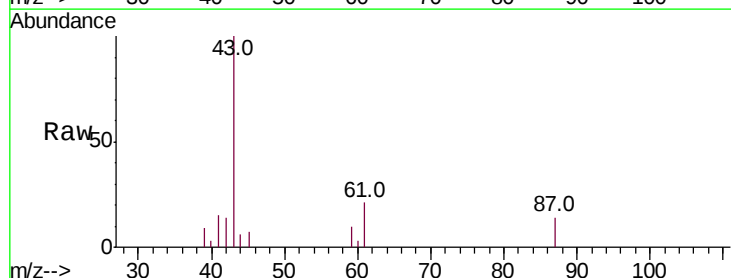
Tgt Ion: 43 Resp: 15236

Ion Ratio Lower Upper

43 100

61 18.8 17.2 25.8

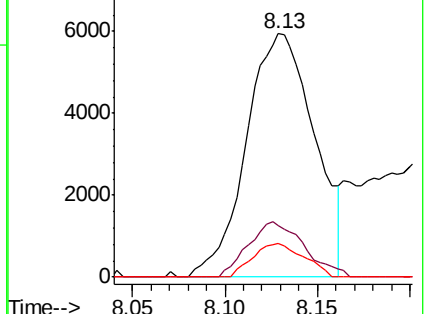
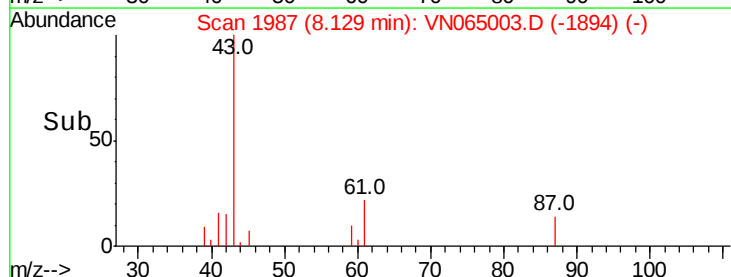
87 10.4 11.4 17.0#

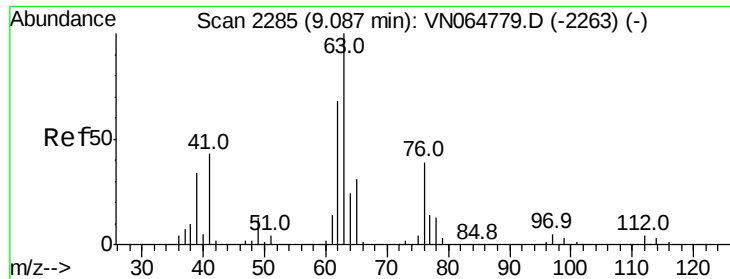


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

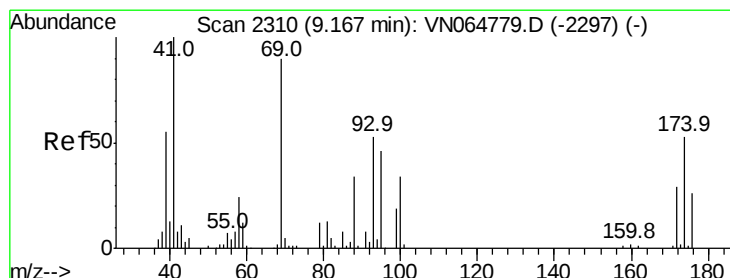
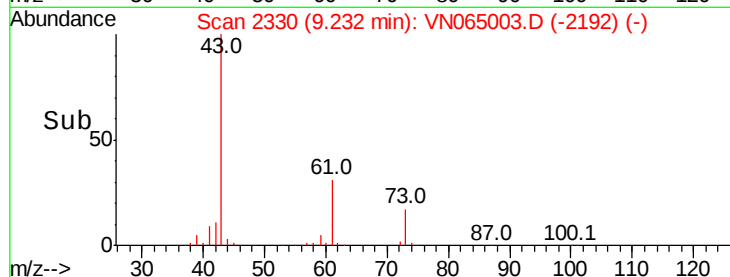
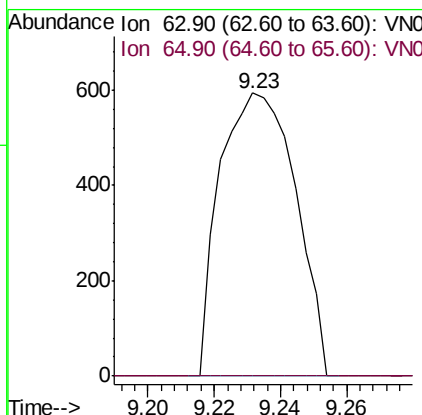
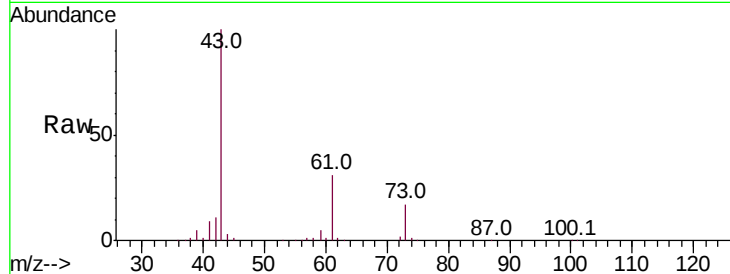




#45
 1,2-Dichloropropane
 Concen: 0.406 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN065003.D
 Acq: 9 Dec 2020 5:51

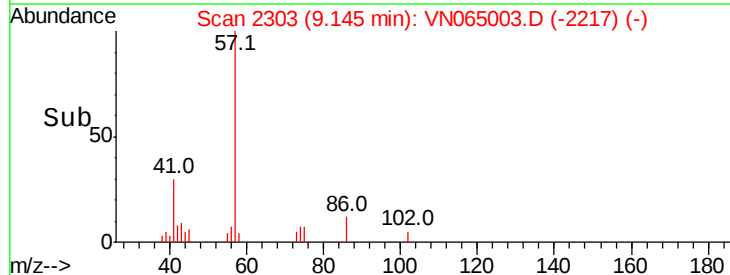
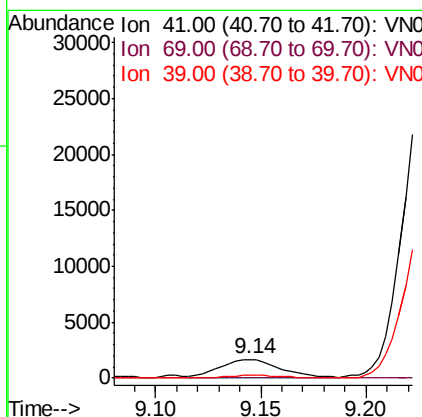
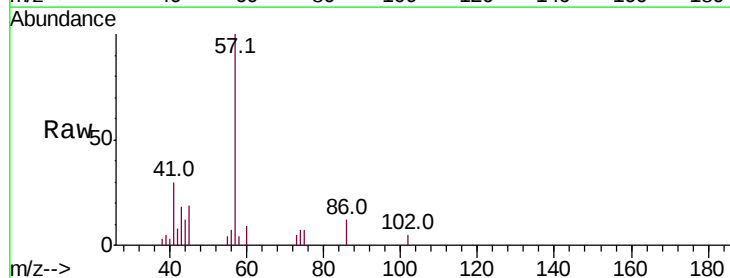
Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-A-BOTTOM

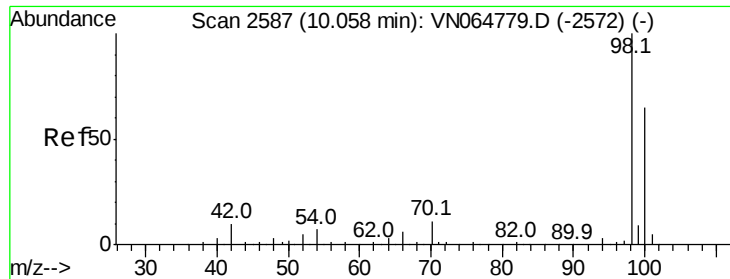
Tot Ion: 63 Resp: 941
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.583 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN065003.D
 Acq: 9 Dec 2020 5:51

Tgt Ion: 41 Resp: 3420
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 51.150 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

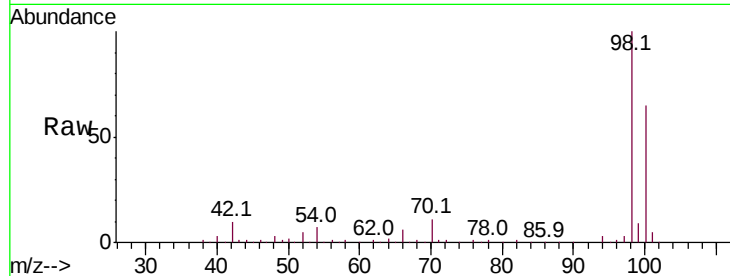
4S1-A-BOTTOM

Tot Ion: 98 Resp: 393579

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): VN

250000

200000

150000

100000

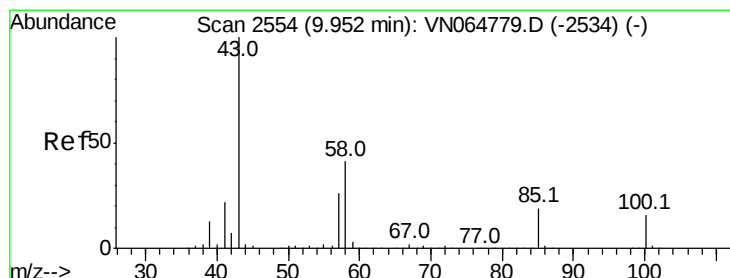
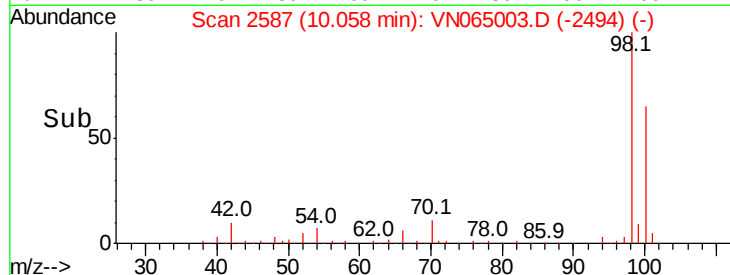
50000

0

10.06

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.278 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN065003.D

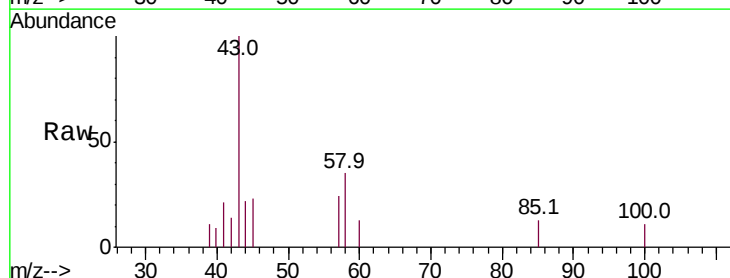
Acq: 9 Dec 2020 5:51

Tgt Ion: 43 Resp: 3468

Ion Ratio Lower Upper

43 100

58 37.2 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

4000

3000

2000

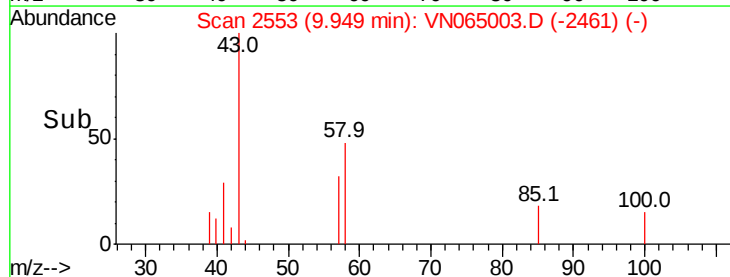
1000

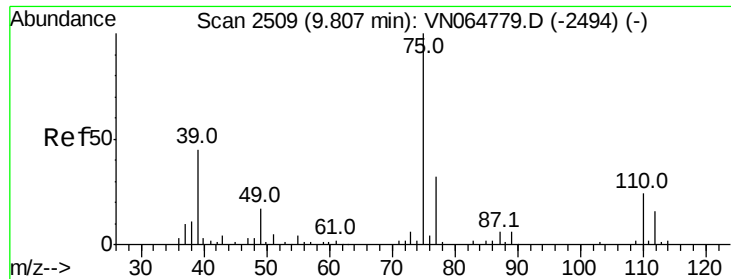
0

9.95

9.95

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.840 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

4S1-A-BOTTOM

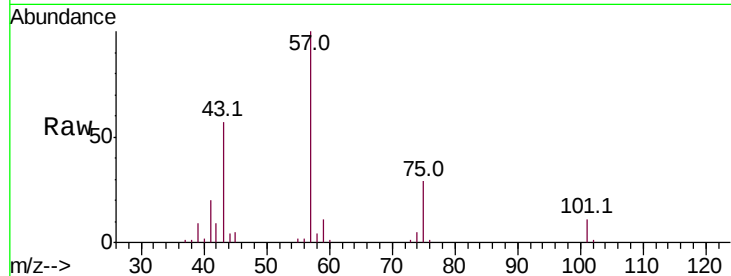
Tot Ion: 75 Resp: 25412

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

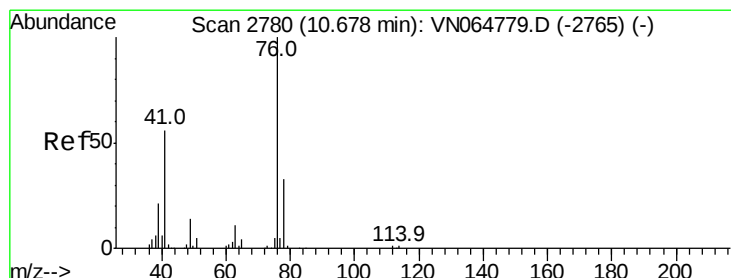
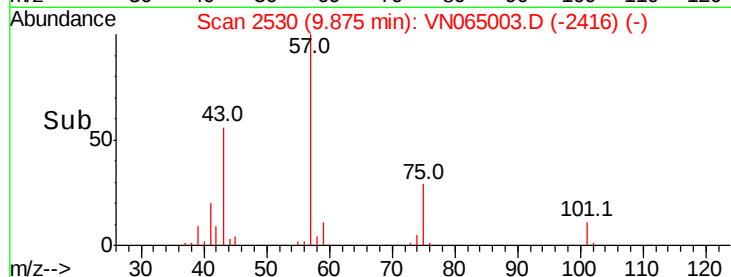
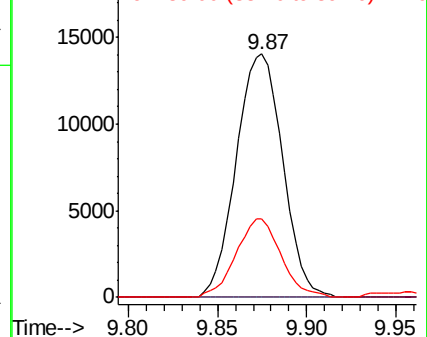
39 32.3 35.6 53.4#



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: 4.014 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN065003.D

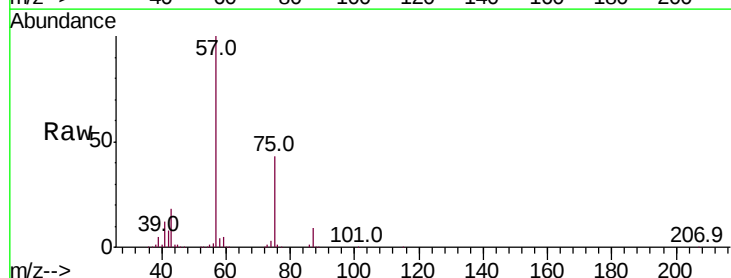
Acq: 9 Dec 2020 5:51

Tgt Ion: 76 Resp: 14990

Ion Ratio Lower Upper

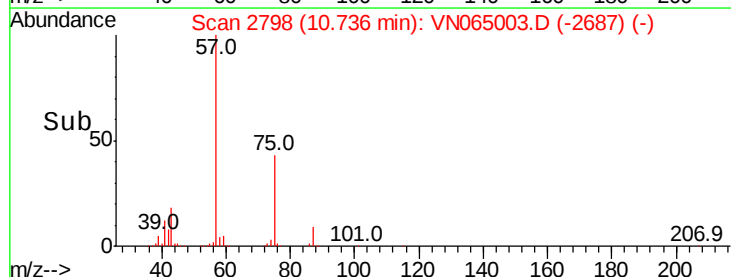
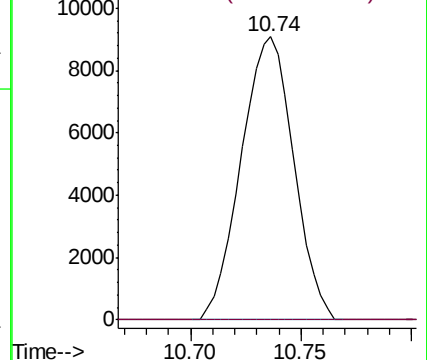
76 100

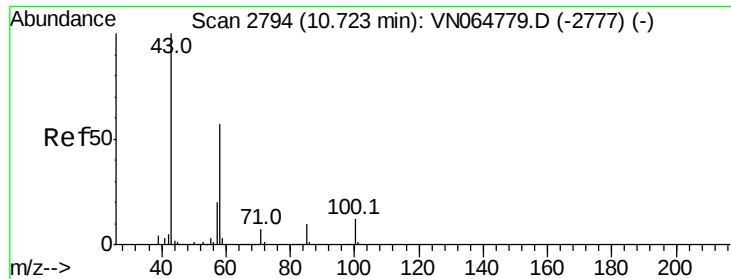
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

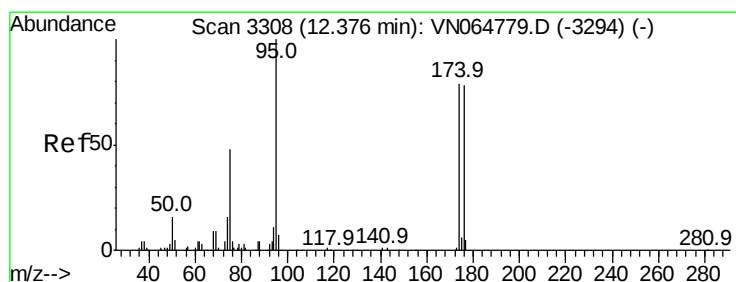
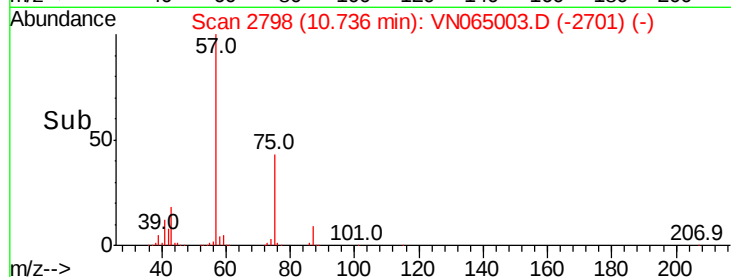
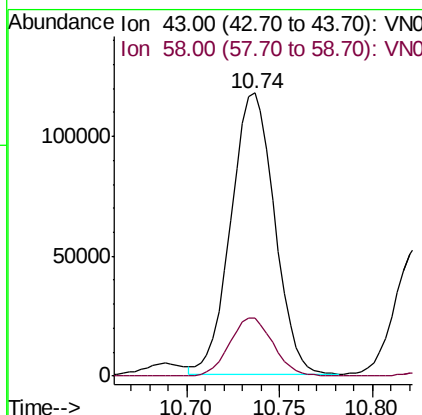
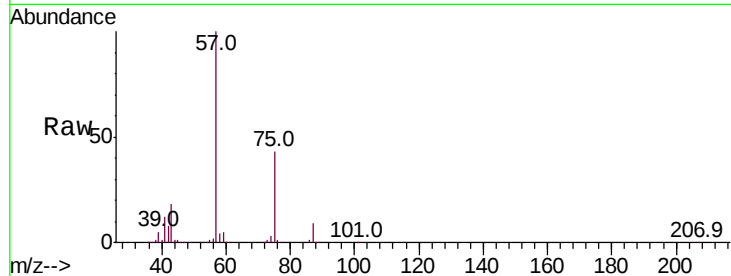




#59
2-Hexanone
Concen: 98.655 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN065003.D
Acq: 9 Dec 2020 5:51

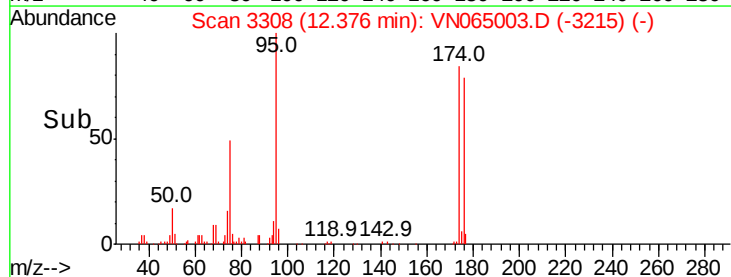
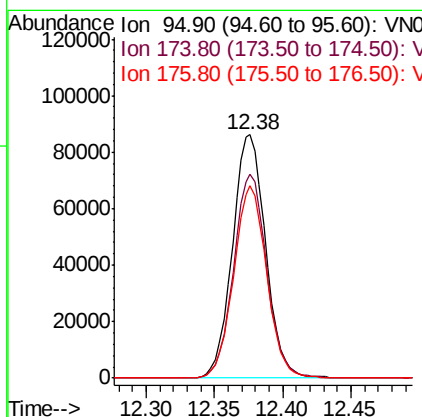
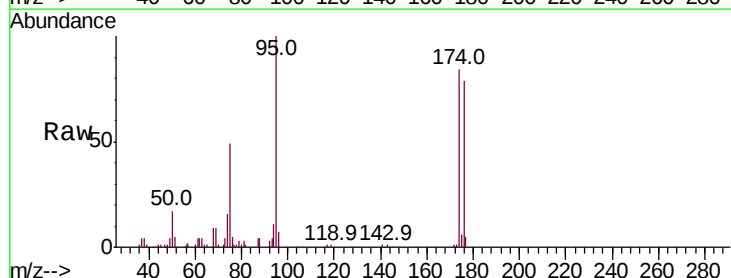
Instrument :
MSVOA_N
ClientSampleId :
4S1-A-BOTTOM

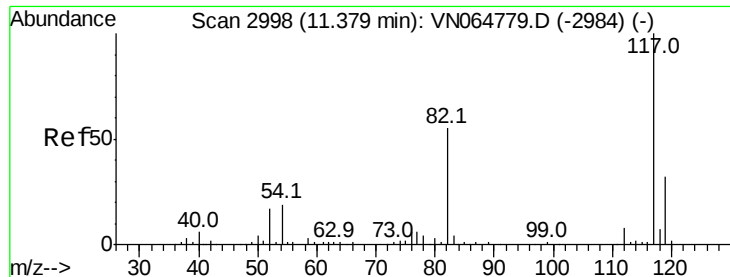
Tot Ion: 43 Resp: 192733
Ion Ratio Lower Upper
43 100
58 20.7 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 52.751 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065003.D
Acq: 9 Dec 2020 5:51

Tgt Ion: 95 Resp: 145261
Ion Ratio Lower Upper
95 100
174 83.8 0.0 160.4
176 78.8 0.0 158.4

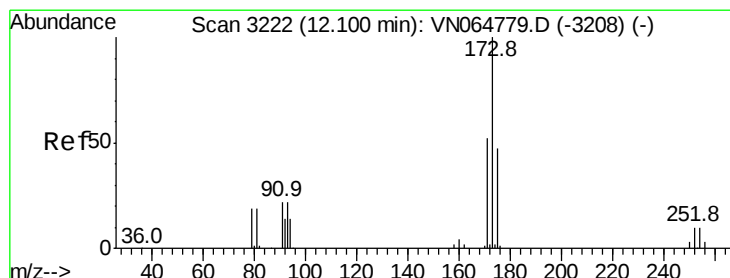
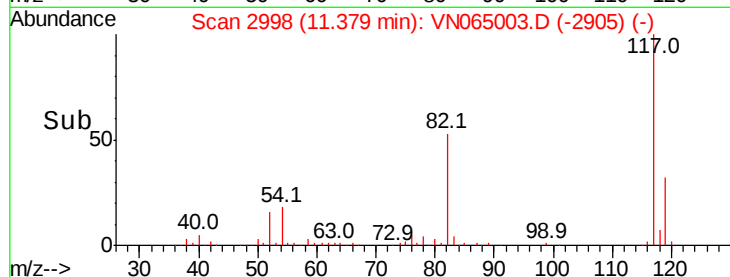
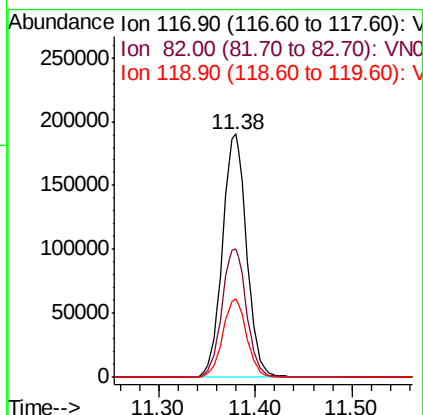
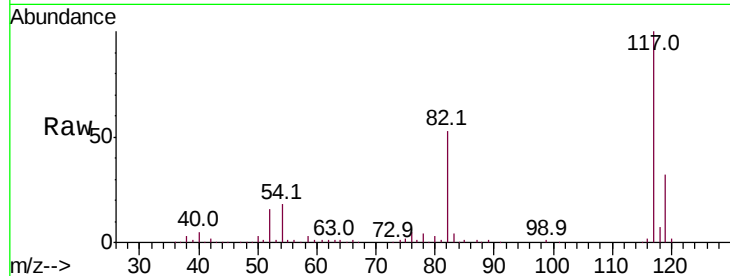




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065003.D
Acq: 9 Dec 2020 5:51

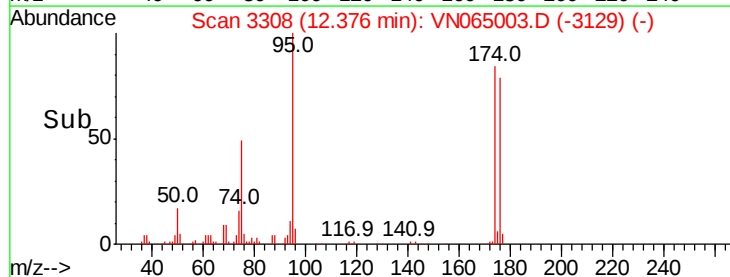
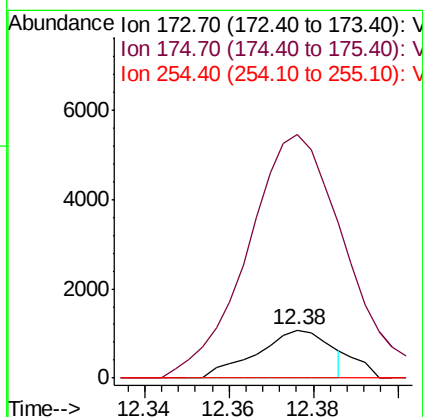
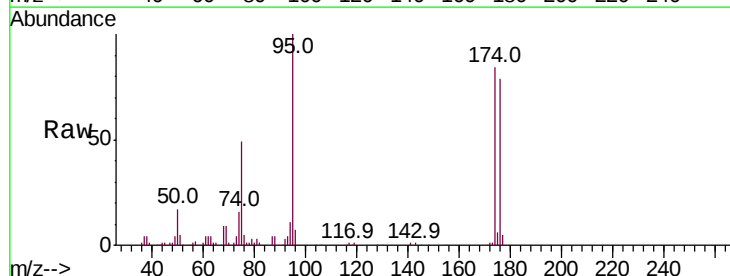
Instrument :
MSVOA_N
ClientSampleId :
4S1-A-BOTTOM

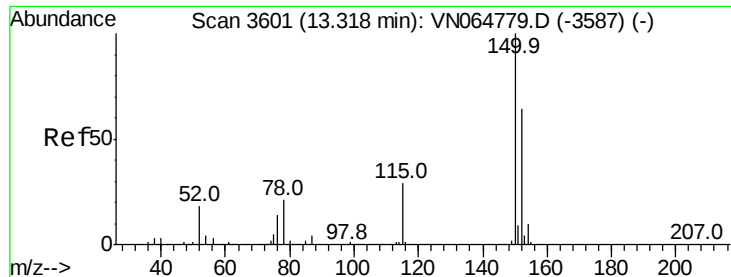
Tot Ion:117 Resp: 330043
Ion Ratio Lower Upper
117 100
82 52.8 44.2 66.2
119 32.0 25.8 38.6



#71
Bromoform
Concen: 0.624 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN065003.D
Acq: 9 Dec 2020 5:51

Tgt Ion:173 Resp: 1298
Ion Ratio Lower Upper
173 100
175 571.6 24.3 72.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

Instrument :

MSVOA_N

ClientSampleId :

4S1-A-BOTTOM

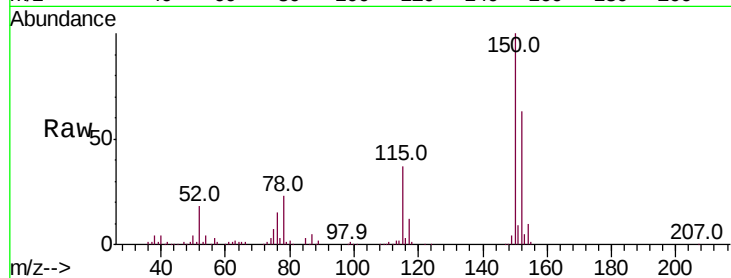
Tot Ion:152 Resp: 137199

Ion Ratio Lower Upper

152 100

115 58.2 29.7 89.1

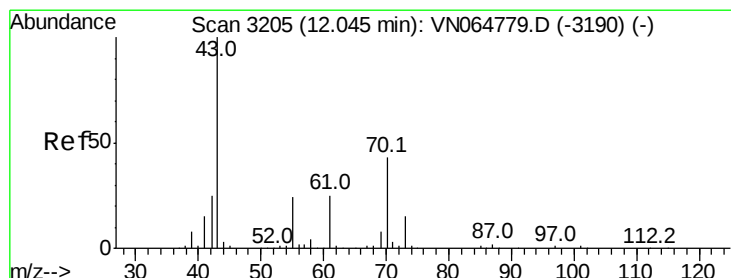
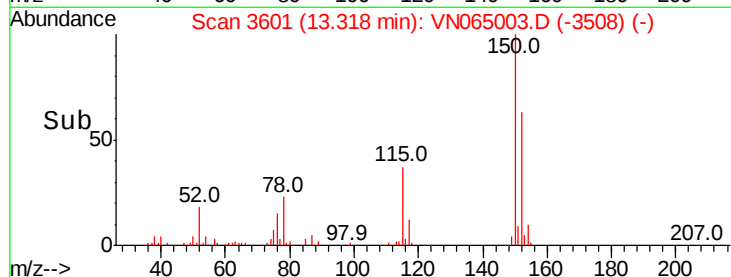
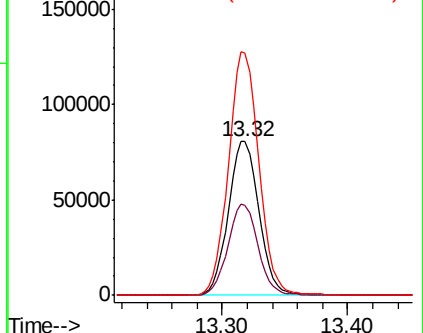
150 156.8 0.0 350.6



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



#74

N-ethyl acetate

Concen: 2.071 ug/l

RT: 11.85 min Scan# 3145

Delta R.T. -0.19 min

Lab File: VN065003.D

Acq: 9 Dec 2020 5:51

Tgt Ion: 43 Resp: 7776

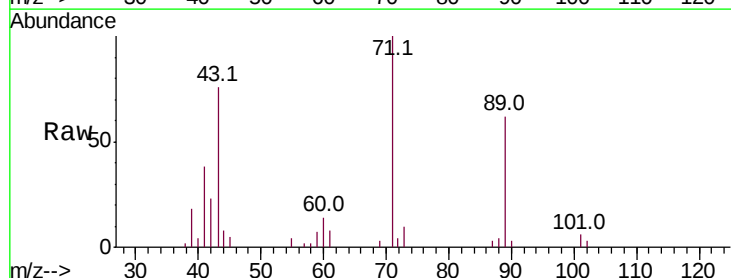
Ion Ratio Lower Upper

43 100

70 1.2 34.5 51.7#

55 5.3 20.4 30.6#

61 9.6 20.0 30.0#

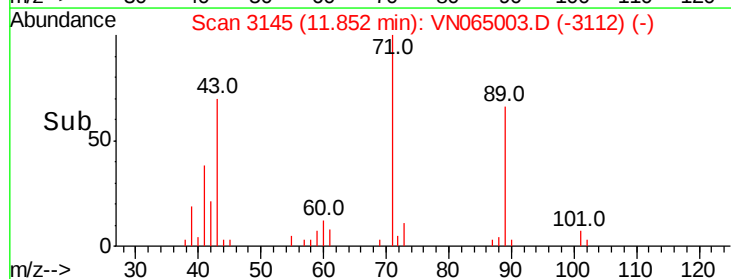
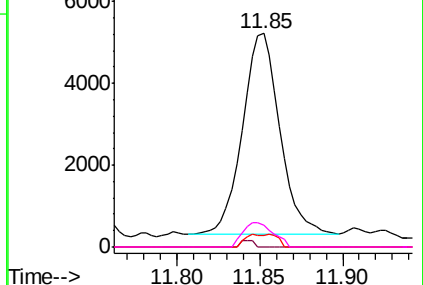


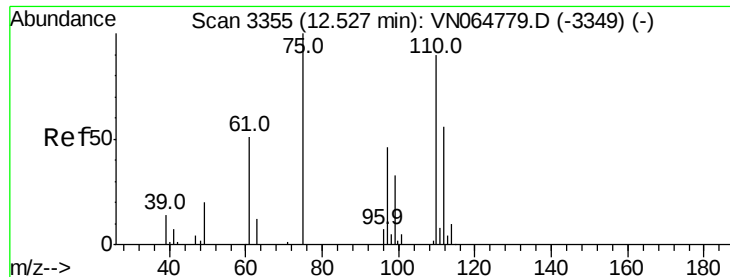
Abundance Ion 43.00 (42.70 to 43.70): VN0

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

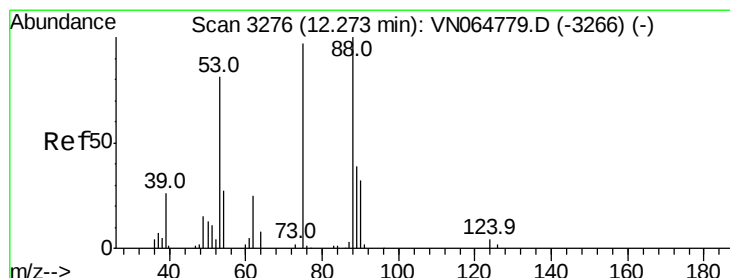
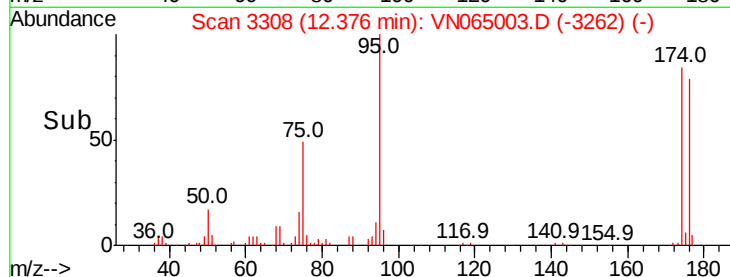
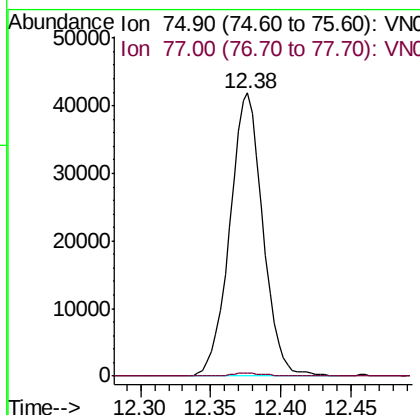
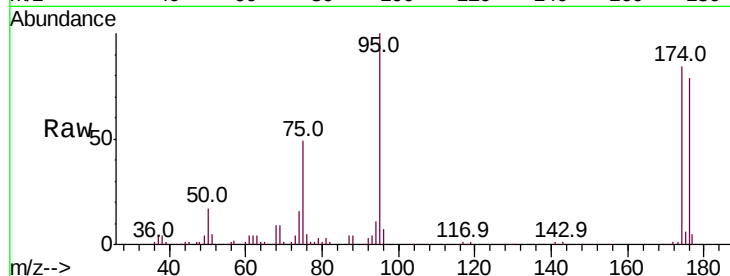




#76
 1,2,3-Trichloropropane
 Concen: 23.222 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN065003.D
 Acq: 9 Dec 2020 5:51

Instrument :
 MSVOA_N
 ClientSampleId :
 4S1-A-BOTTOM

Tot Ion: 75 Resp: 68615
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.647 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN065003.D
 Acq: 9 Dec 2020 5:51

Tgt Ion: 75 Resp: 68615
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#

