

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064993.D
 Acq On : 9 Dec 2020 1:51
 Operator : JC/MD
 Sample : L4966-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 239995

Quant Time: Dec 09 07:59:05 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	169927	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	327402	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	343969	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	145817	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.98	65	110487	55.93	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	111.86%		
35) Dibromofluoromethane	7.55	113	101101	51.61	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	103.22%		
50) Toluene-d8	10.06	98	409718	51.19	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	102.38%		
62) 4-Bromofluorobenzene	12.37	95	156225	54.53	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	109.06%		

Target Compounds

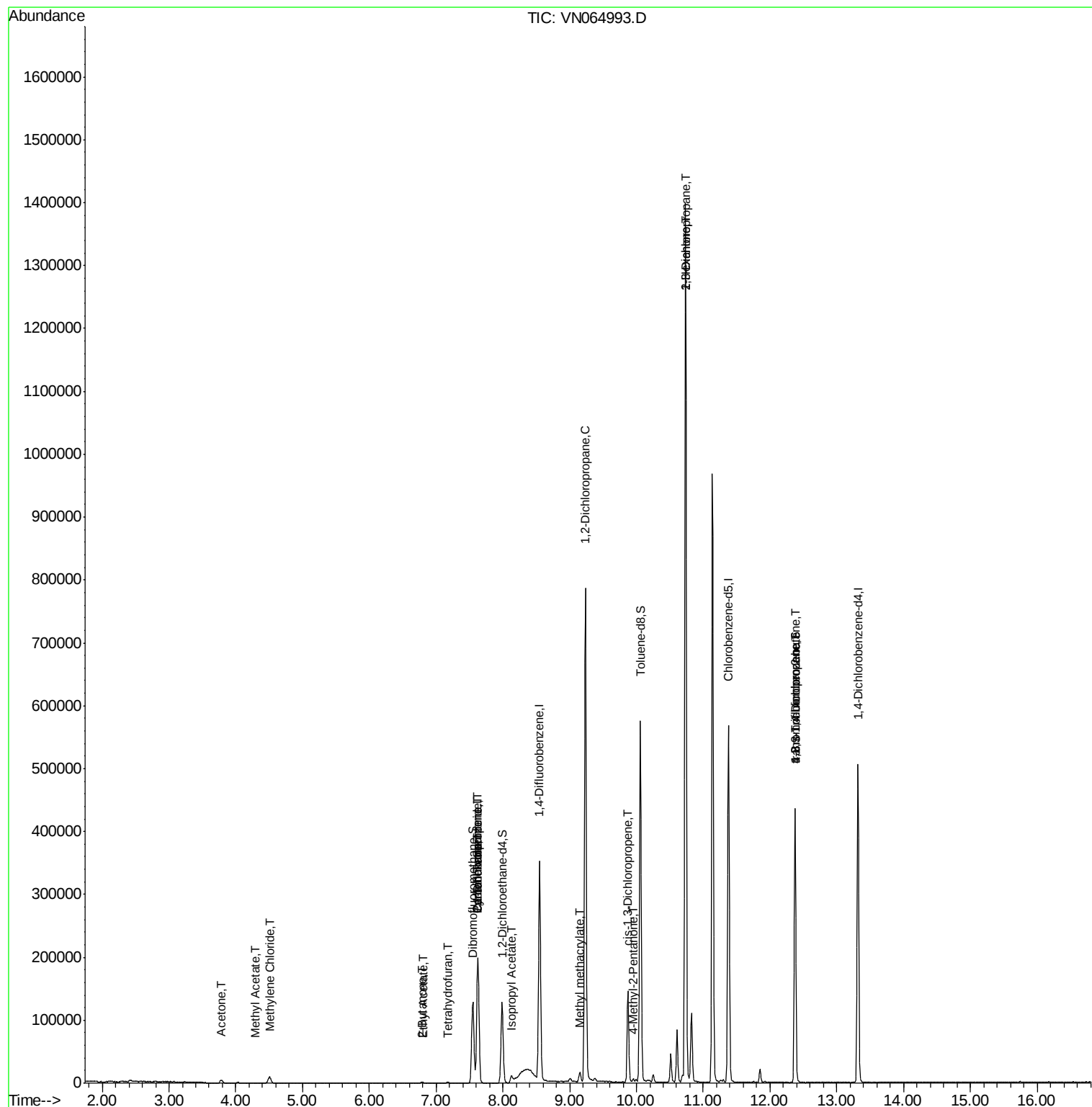
					Qvalue	
16) Acetone	3.78	43	7380	11.364	ug/l	99
18) Methyl Acetate	4.28	43	819	0.419	ug/l #	50
20) Methylene Chloride	4.51	84	7854	3.860	ug/l	97
25) 2-Butanone	6.78	43	905	0.860	ug/l #	49
29) Tetrahydrofuran	7.18	42	1011	1.391	ug/l #	73
31) Cyclohexane	7.62	56	3119	1.133	ug/l #	16
36) 1,1-Dichloropropene	7.62	75	11696	3.854	ug/l #	48
37) Ethyl Acetate	6.80	43	1274	0.436	ug/l #	66
38) Carbon Tetrachloride	7.62	117	16216	5.136	ug/l #	16
43) Isopropyl Acetate	8.13	43	16561	3.521	ug/l #	79
45) 1,2-Dichloropropane	9.23	63	874	0.363	ug/l #	43
48) Methyl methacrylate	9.14	41	3860	1.717	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3253	1.152	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	26749	6.921	ug/l #	61
57) 1,3-Dichloropropane	10.73	76	14849	3.822	ug/l #	42
59) 2-Hexanone	10.74	43	190401	93.686	ug/l #	51
76) 1,2,3-Trichloropropane	12.37	75	73849	23.517	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	73849	64.453	ug/l #	15

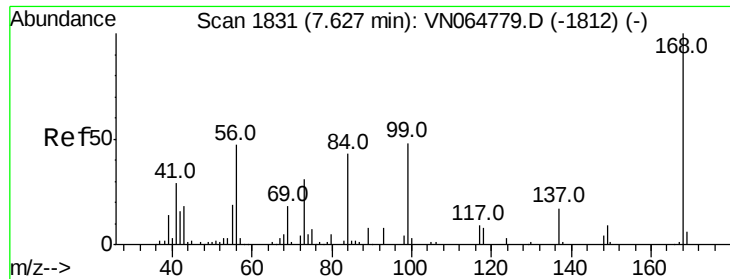
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

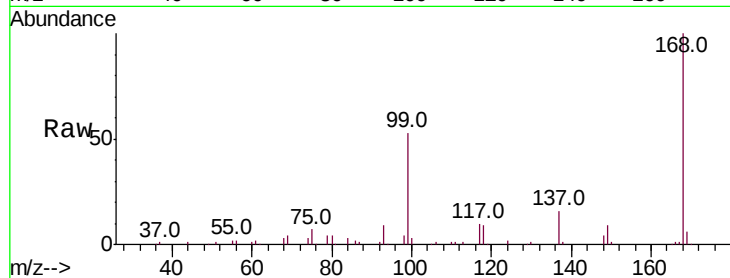
239995

Tot Ion:168 Resp: 169927

Ion Ratio Lower Upper

168 100

99 53.1 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

80000

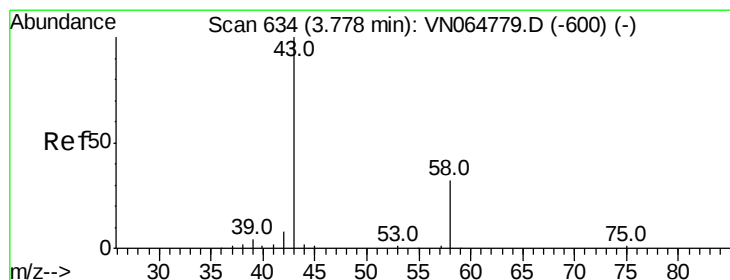
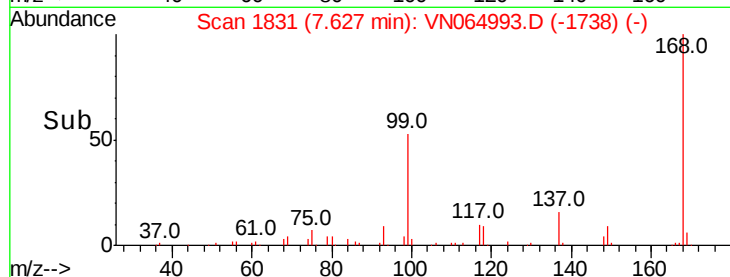
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 11.364 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN064993.D

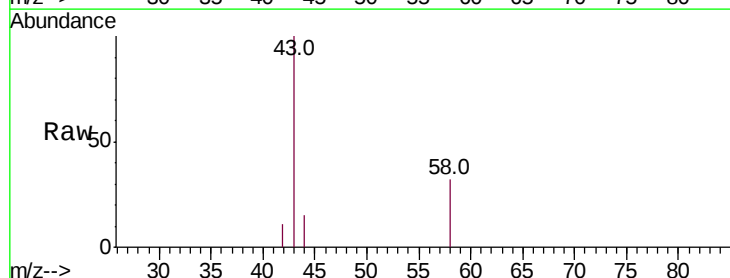
Acq: 9 Dec 2020 1:51

Tgt Ion: 43 Resp: 7380

Ion Ratio Lower Upper

43 100

58 32.5 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

2500

2000

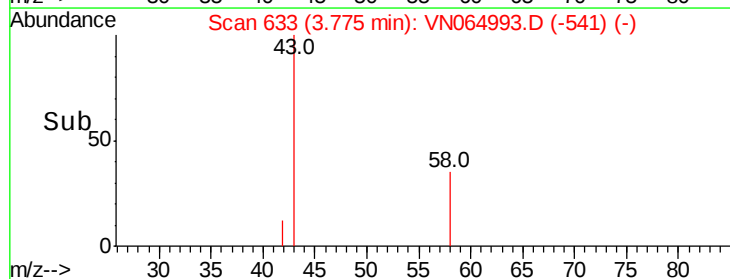
1500

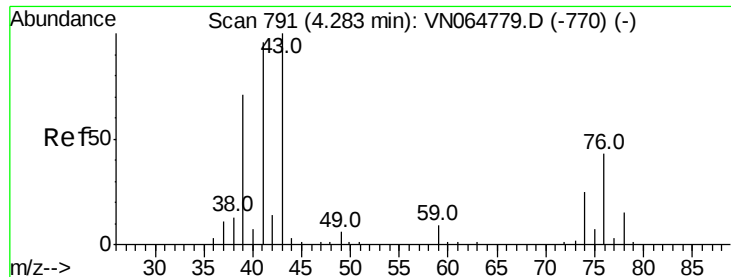
1000

500

0

Time--> 3.70 3.75 3.80 3.85

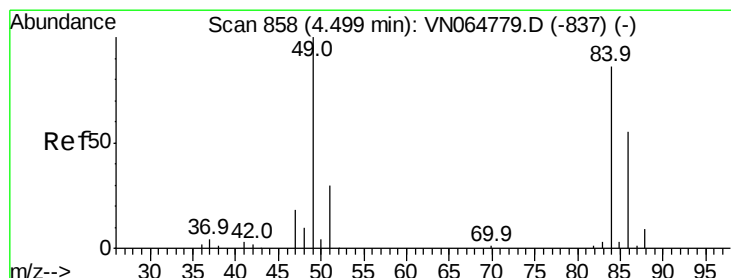
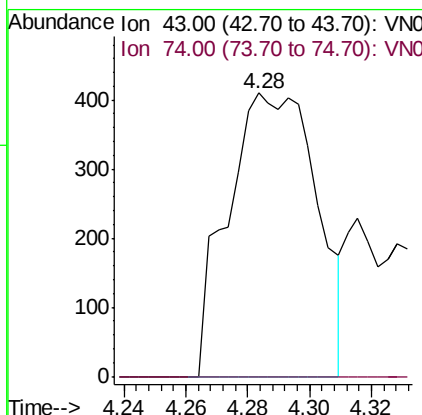
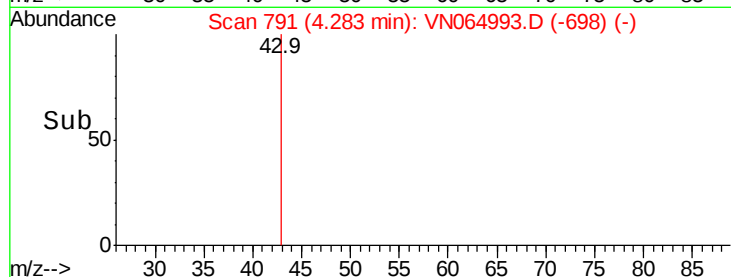
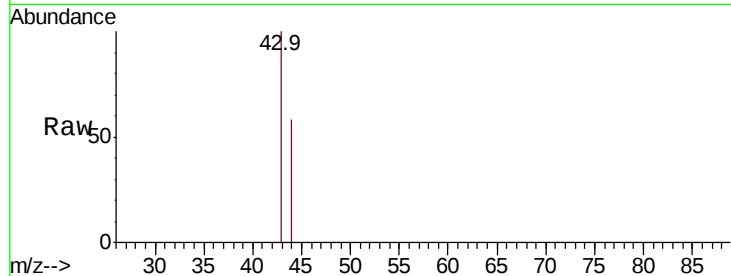




#18
Methyl Acetate
Concen: 0.419 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN064993.D
Acq: 9 Dec 2020 1:51

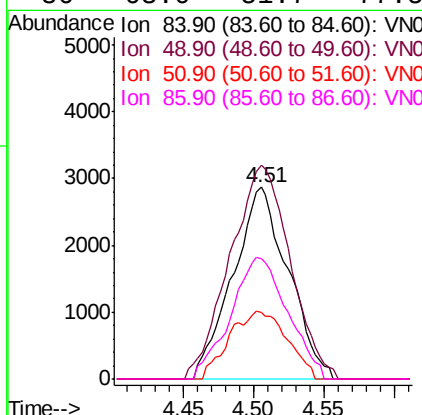
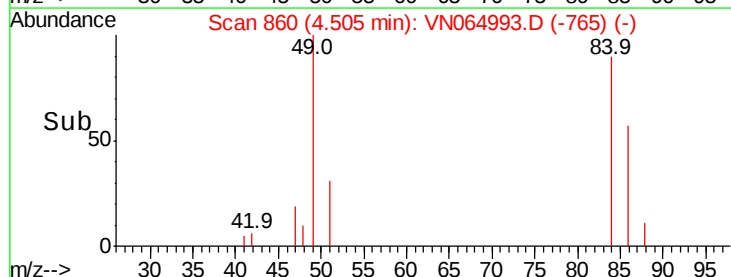
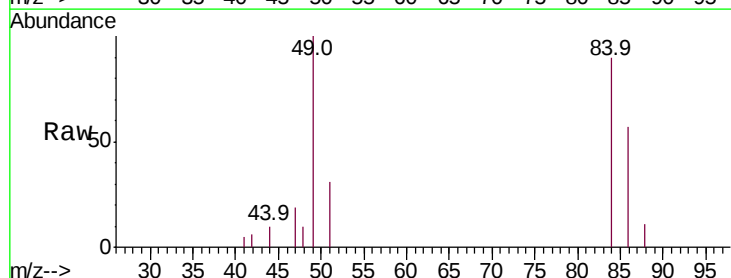
Instrument :
MSVOA_N
ClientSampled :
239995

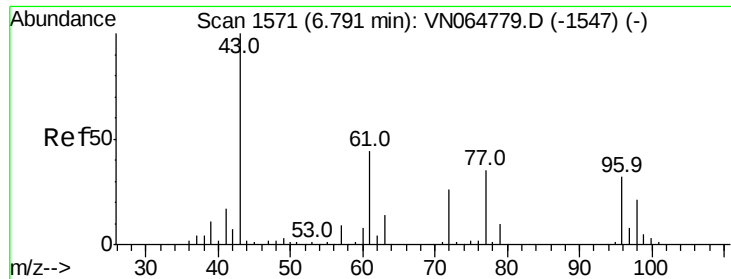
Tot Ion: 43 Resp: 819
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 3.860 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN064993.D
Acq: 9 Dec 2020 1:51

Tgt Ion: 84 Resp: 7854
Ion Ratio Lower Upper
84 100
49 111.3 93.4 140.0
51 34.7 28.2 42.4
86 63.0 51.7 77.5

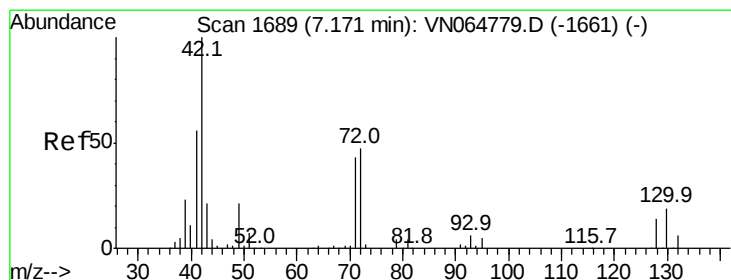
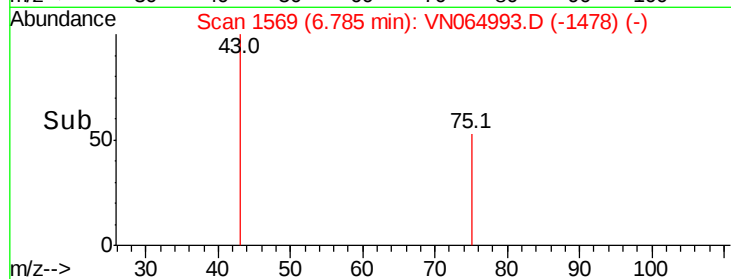
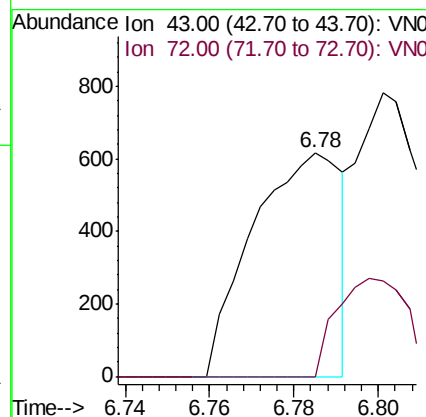
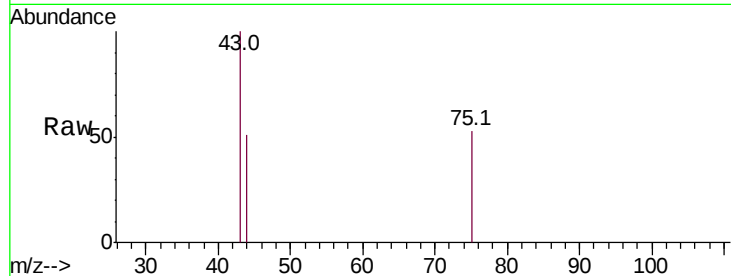




#25
2-Butanone
Concen: 0.860 ug/l
RT: 6.78 min Scan# 1569
Delta R.T. -0.01 min
Lab File: VN064993.D
Acq: 9 Dec 2020 1:51

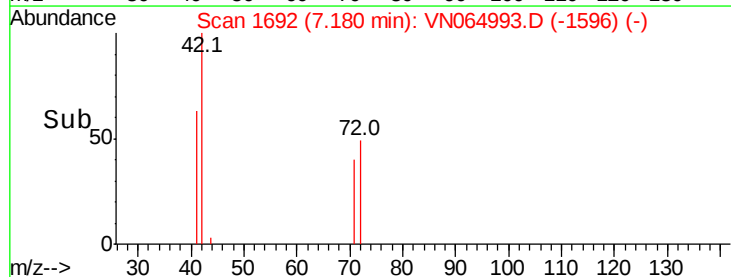
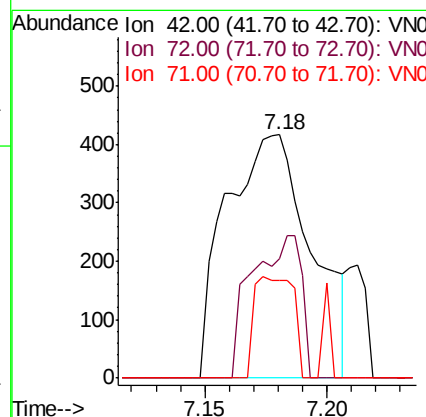
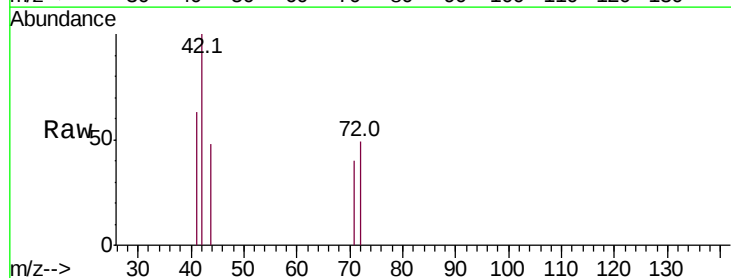
Instrument :
MSVOA_N
ClientSampled :
239995

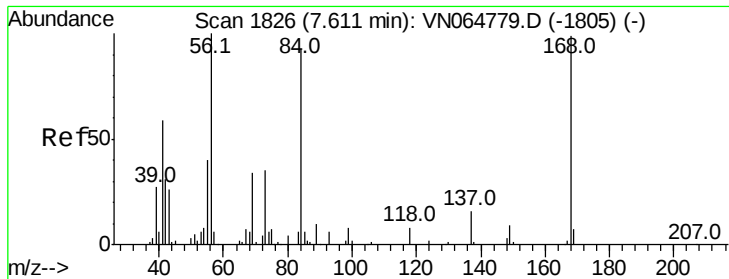
Tot Ion: 43 Resp: 905
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#



#29
Tetrahydrofuran
Concen: 1.391 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.01 min
Lab File: VN064993.D
Acq: 9 Dec 2020 1:51

Tgt Ion: 42 Resp: 1011
Ion Ratio Lower Upper
42 100
72 33.9 36.6 54.8#
71 18.9 33.6 50.4#

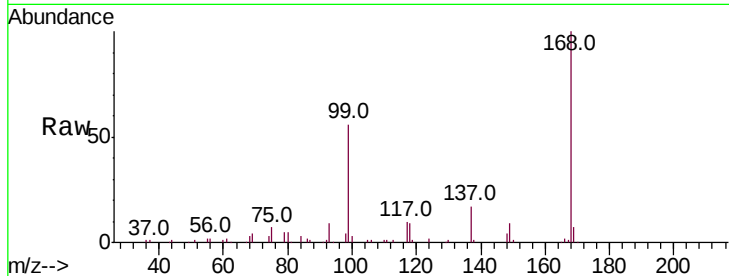




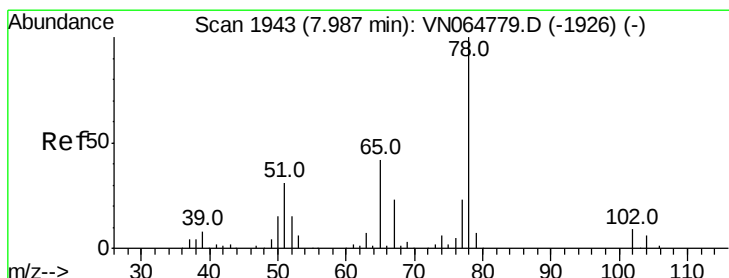
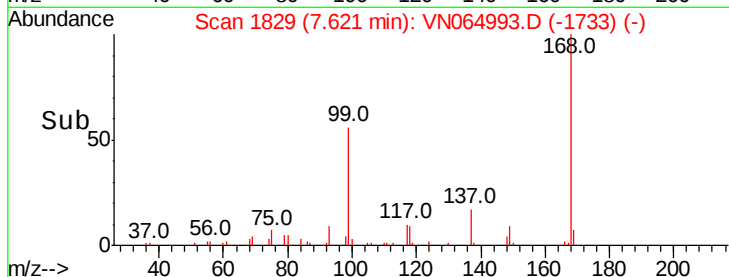
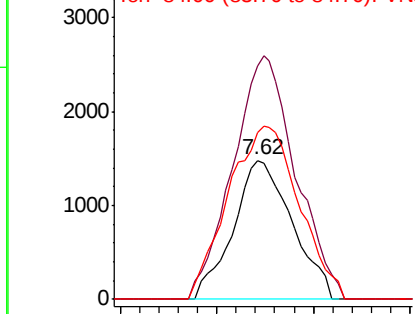
#31
Cyclohexane
Concen: 1.133 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064993.D
Acq: 9 Dec 2020 1:51

Instrument :
MSVOA_N
ClientSampleId :
239995

Tot Ion: 56 Resp: 3119
Ion Ratio Lower Upper
56 100
69 168.0 27.5 41.3#
84 119.8 73.9 110.9#

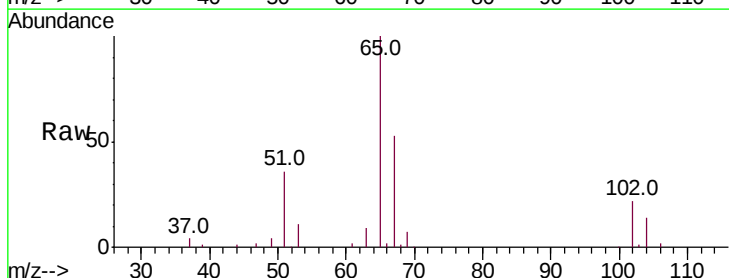


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

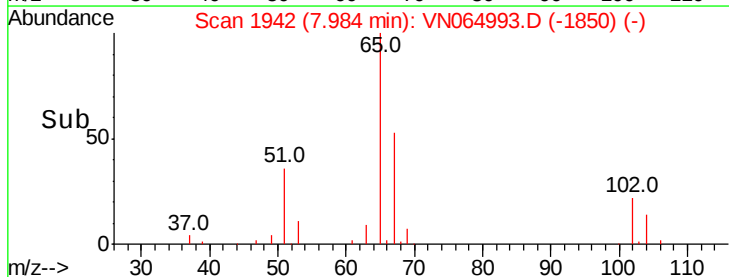
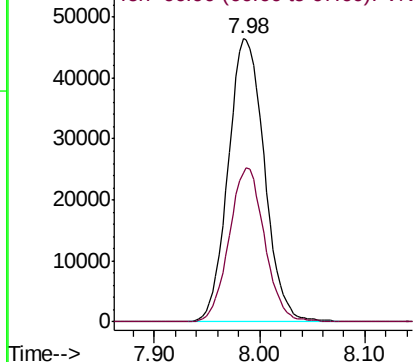


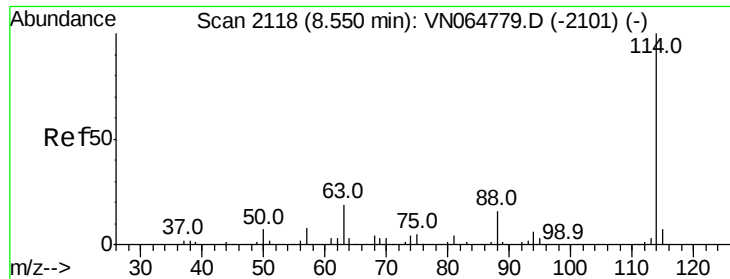
#33
1,2-Dichloroethane-d4
Concen: 55.928 ug/l
RT: 7.98 min Scan# 1942
Delta R.T. -0.00 min
Lab File: VN064993.D
Acq: 9 Dec 2020 1:51

Tgt Ion: 65 Resp: 110487
Ion Ratio Lower Upper
65 100
67 53.3 0.0 108.2



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

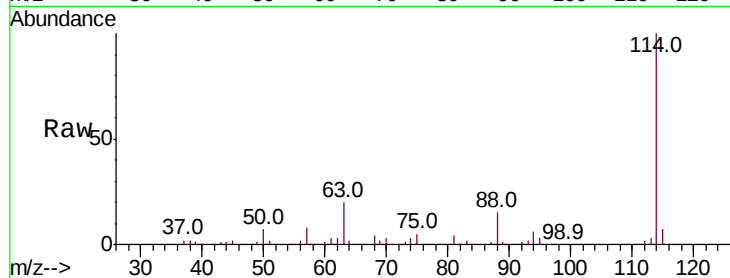




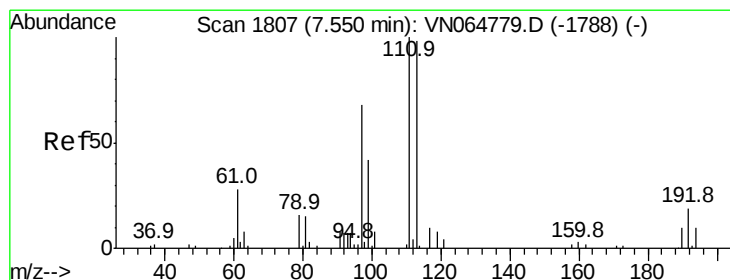
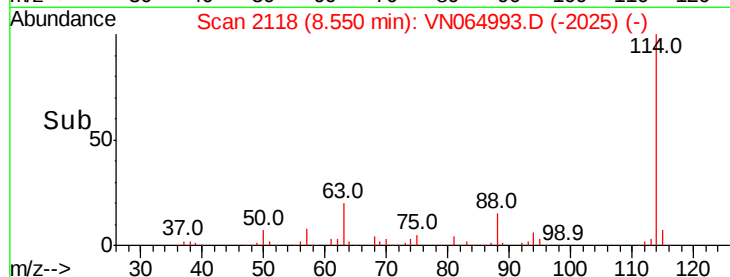
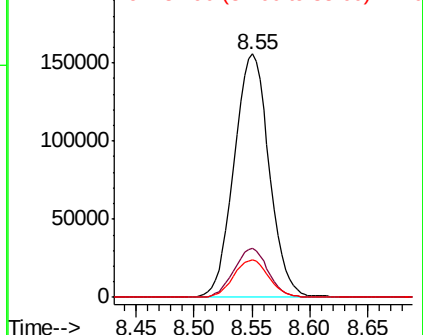
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064993.D
 Acq: 9 Dec 2020 1:51

Instrument :
 MSVOA_N
 ClientSampleId :
 239995

Tot Ion:114 Resp: 327402
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 38.6
 88 15.2 0.0 32.6

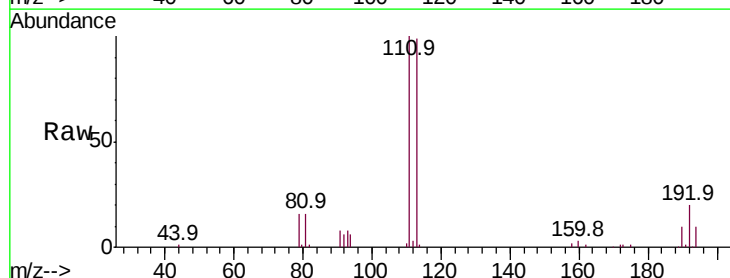


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

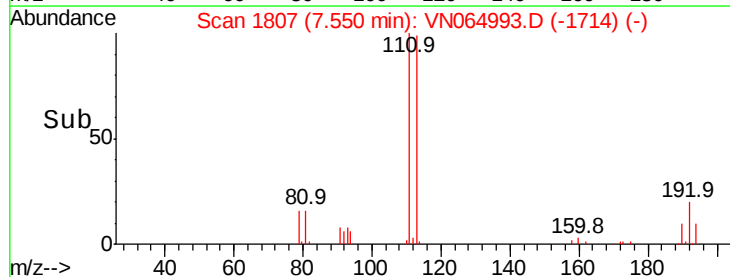
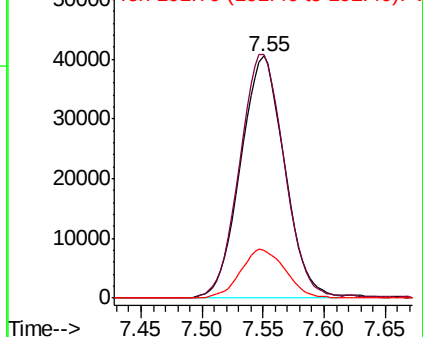


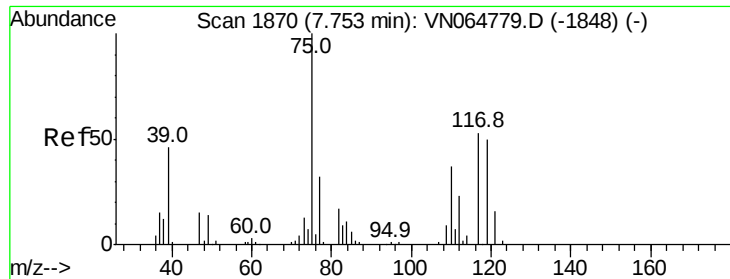
#35
 Dibromofluoromethane
 Concen: 51.607 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064993.D
 Acq: 9 Dec 2020 1:51

Tgt Ion:113 Resp: 101101
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.6 122.4
 192 20.4 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

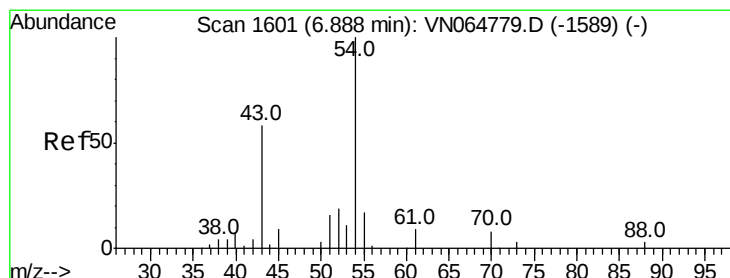
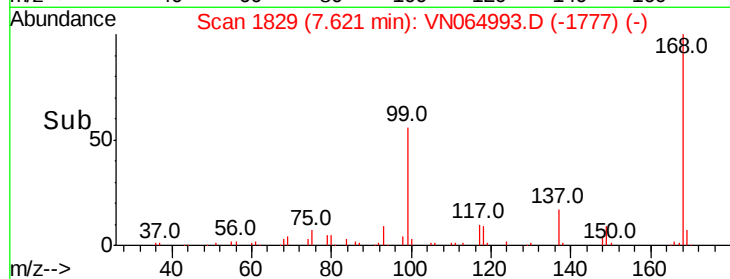
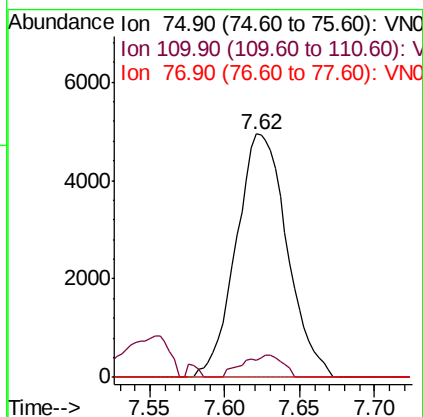
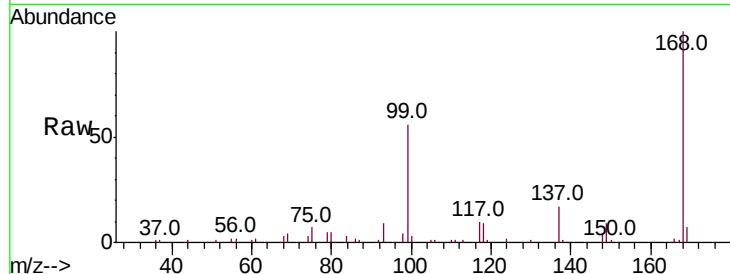




#36
 1,1-Dichloropropene
 Concen: 3.854 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN064993.D
 Acq: 9 Dec 2020 1:51

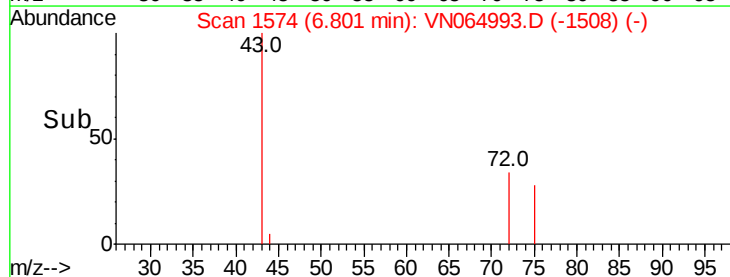
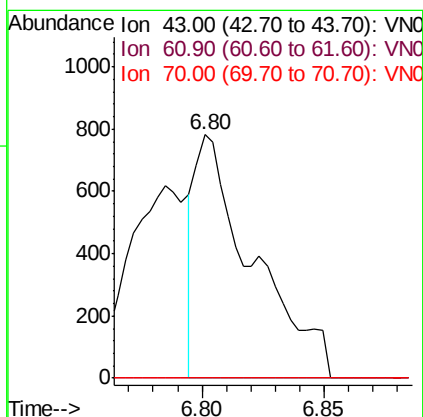
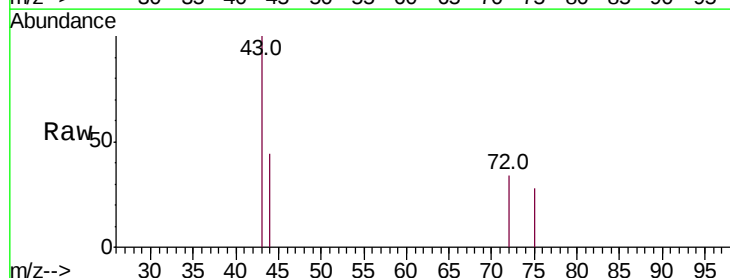
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 MSVOA_N
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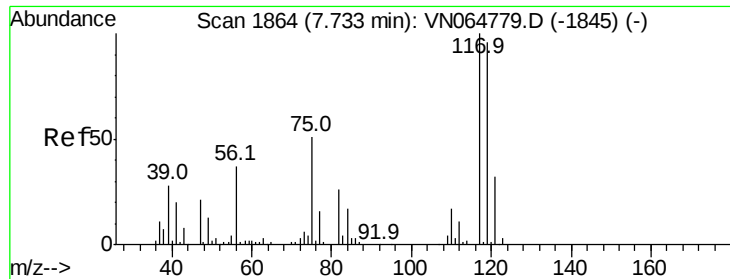
Tot Ion: 75 Resp: 11696
 Ion Ratio Lower Upper
 75 100
 110 7.3 17.8 53.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 0.436 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. -0.09 min
 Lab File: VN064993.D
 Acq: 9 Dec 2020 1:51

Tgt Ion: 43 Resp: 1274
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.8 19.2#
 70 0.0 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 5.136 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

Instrument :

MSVOA_N

ClientSampled :

239995

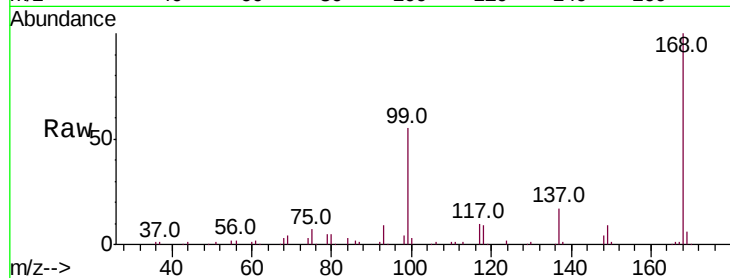
Tot Ion:117 Resp: 16216

Ion Ratio Lower Upper

117 100

119 5.1 76.7 115.1#

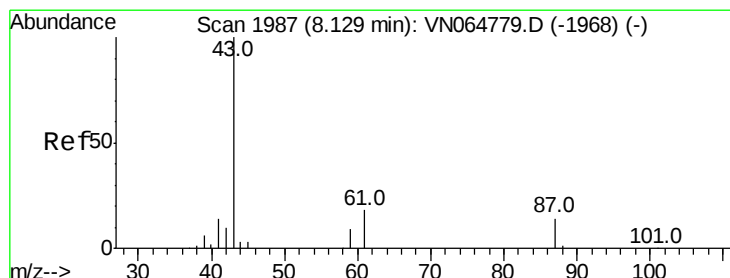
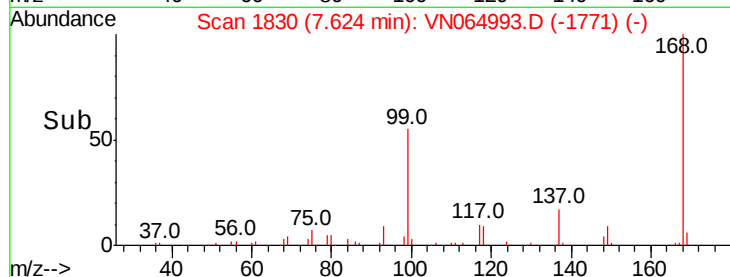
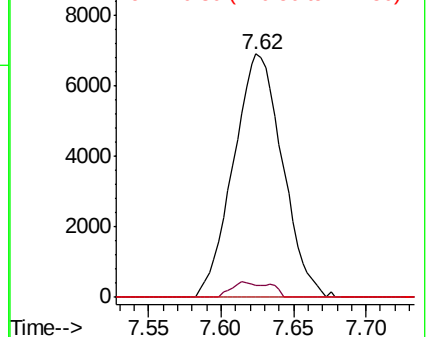
121 0.0 25.4 38.2#



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: 3.521 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

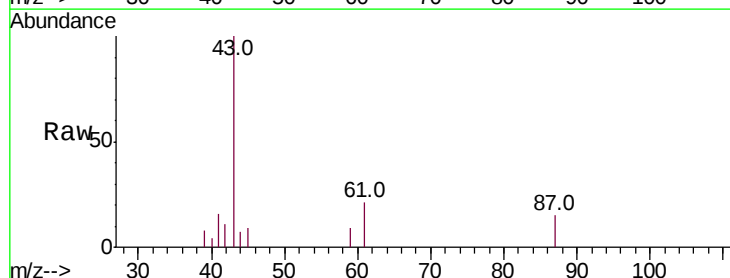
Tgt Ion: 43 Resp: 16561

Ion Ratio Lower Upper

43 100

61 10.3 17.2 25.8#

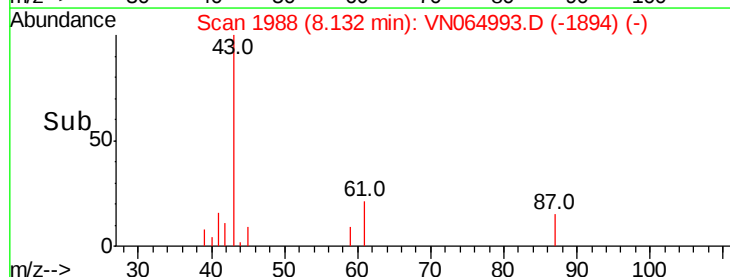
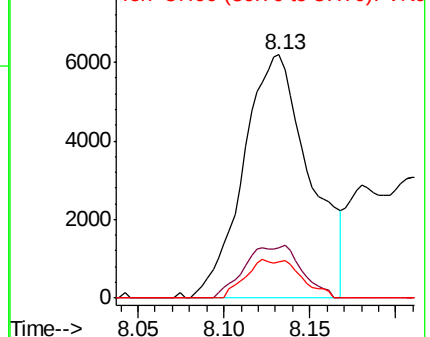
87 6.9 11.4 17.0#

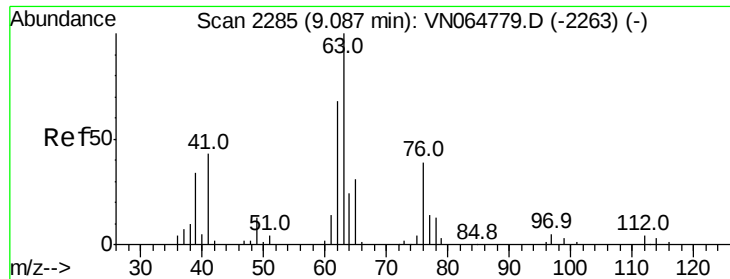


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

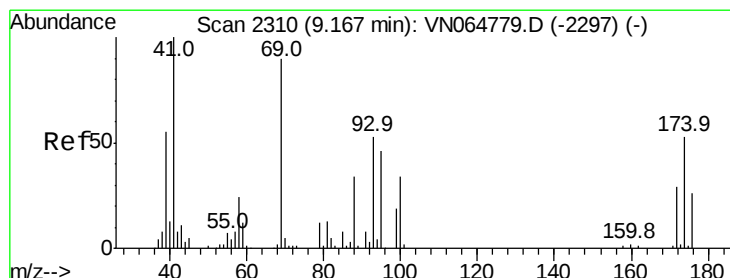
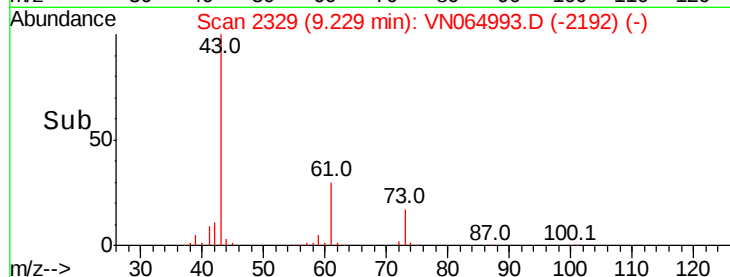
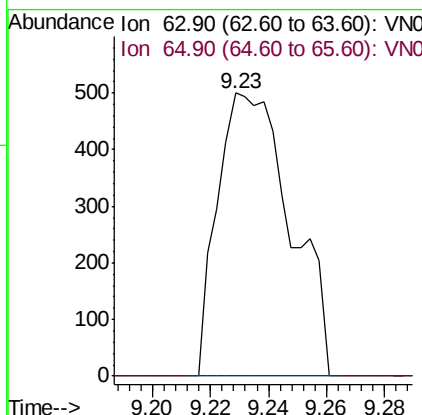
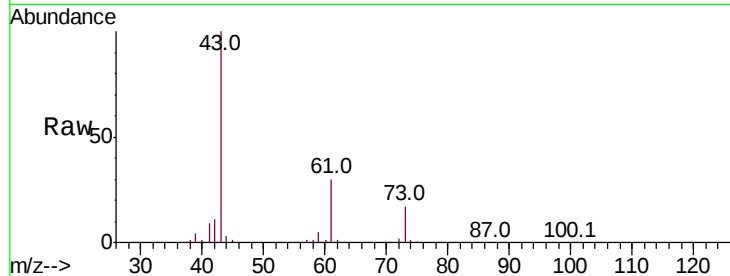




#45
 1,2-Dichloropropane
 Concen: 0.363 ug/l
 RT: 9.23 min Scan# 2329
 Delta R.T. 0.14 min
 Lab File: VN064993.D
 Acq: 9 Dec 2020 1:51

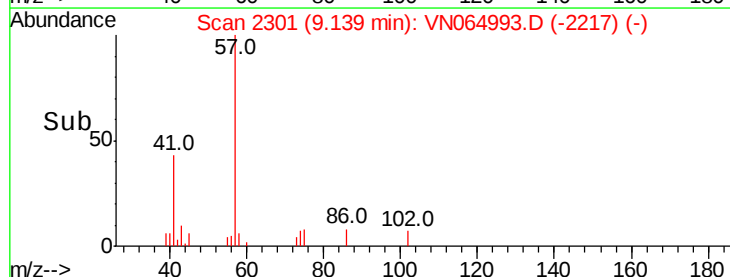
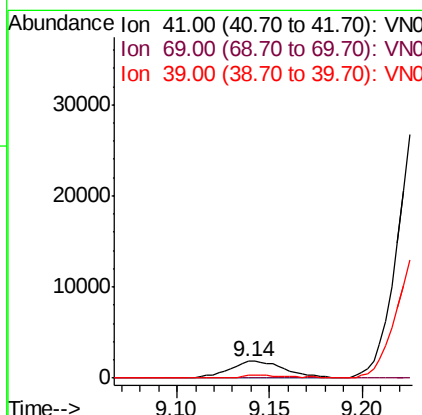
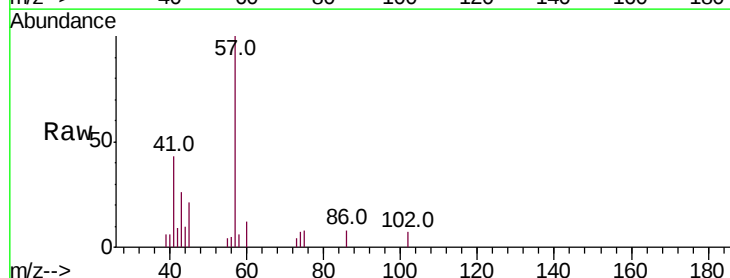
Instrument :
 MSVOA_N
 ClientSampleId :
 239995

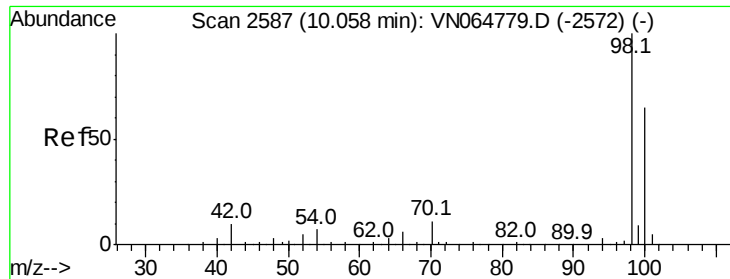
Tot Ion: 63 Resp: 874
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.717 ug/l
 RT: 9.14 min Scan# 2301
 Delta R.T. -0.03 min
 Lab File: VN064993.D
 Acq: 9 Dec 2020 1:51

Tgt Ion: 41 Resp: 3860
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 51.185 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

Instrument :

MSVOA_N

ClientSampled :

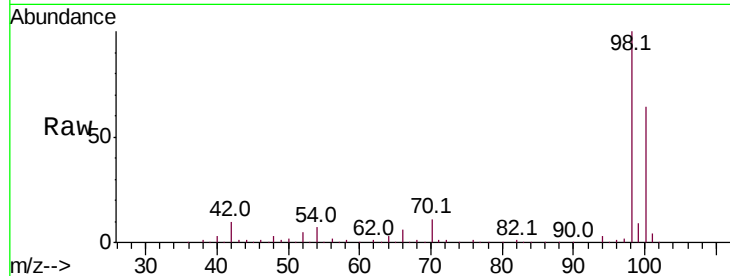
239995

Tot Ion: 98 Resp: 409718

Ion Ratio Lower Upper

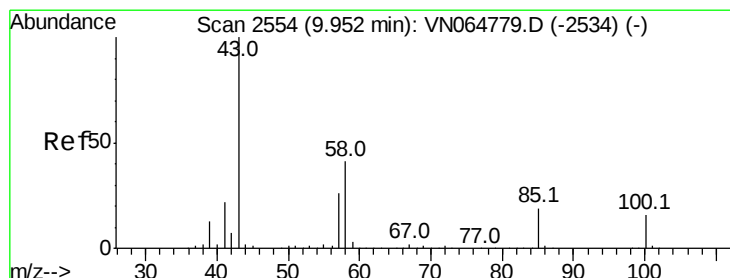
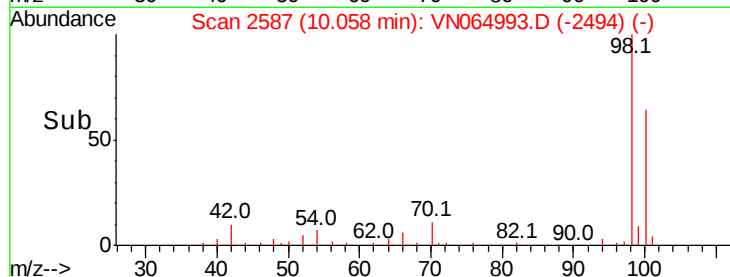
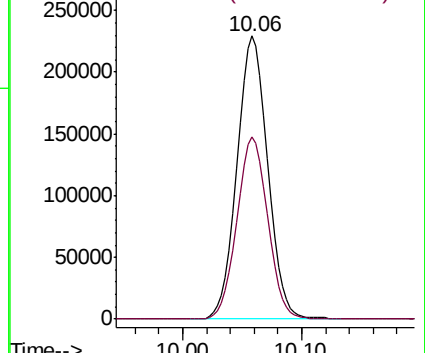
98 100

100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.152 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064993.D

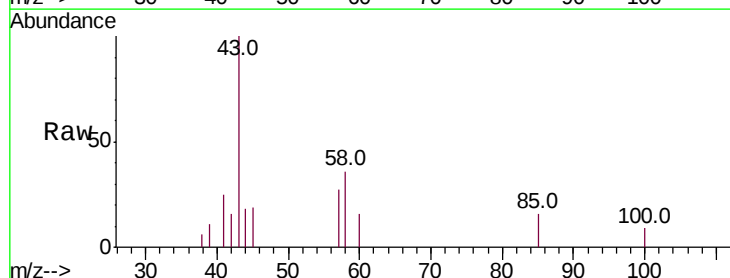
Acq: 9 Dec 2020 1:51

Tgt Ion: 43 Resp: 3253

Ion Ratio Lower Upper

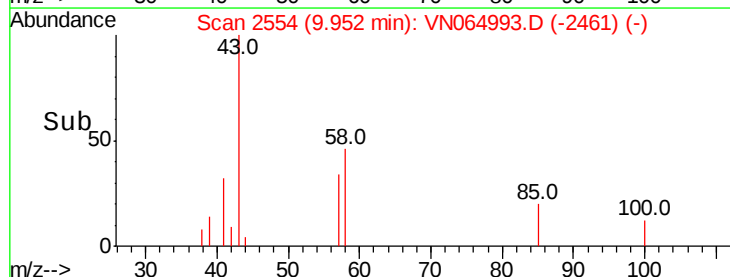
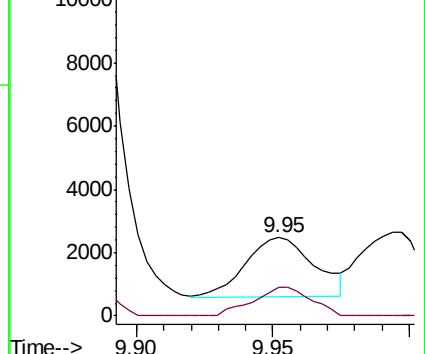
43 100

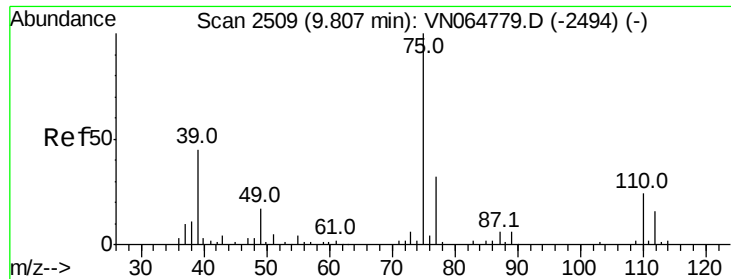
58 40.7 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#54

cis-1,3-Dichloropropene

Concen: 6.921 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

239995

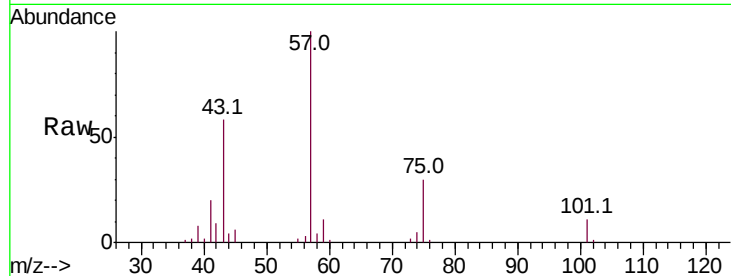
Tot Ion: 75 Resp: 26749

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

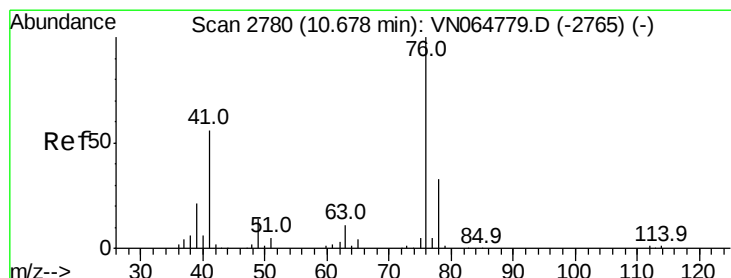
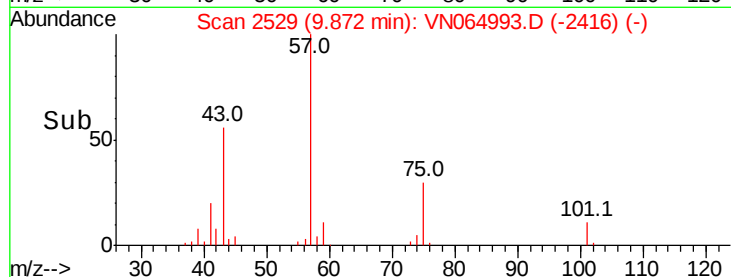
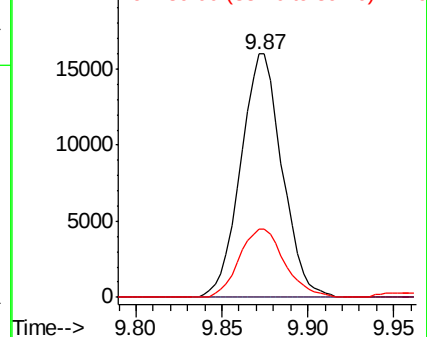
39 27.9 35.6 53.4#



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: 3.822 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064993.D

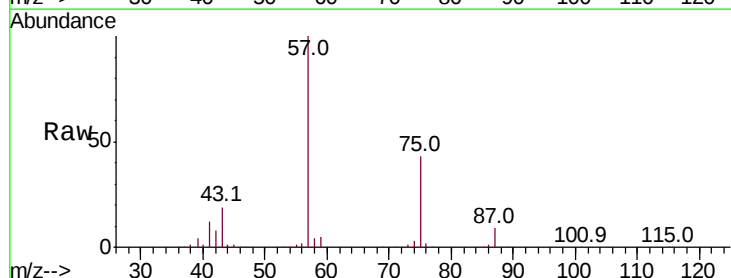
Acq: 9 Dec 2020 1:51

Tgt Ion: 76 Resp: 14849

Ion Ratio Lower Upper

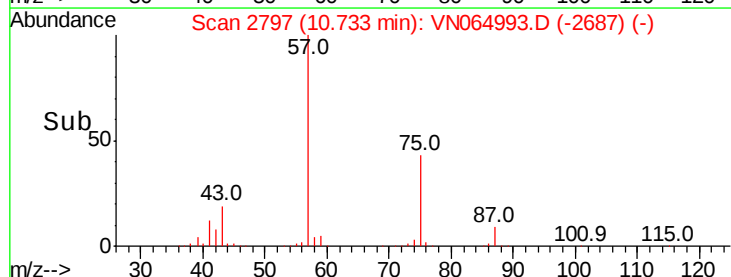
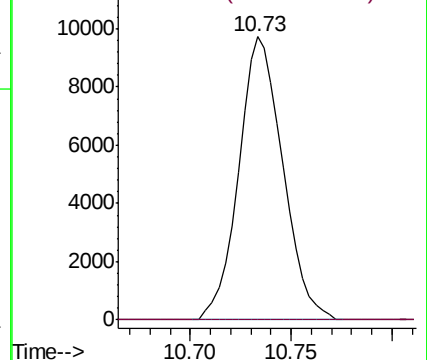
76 100

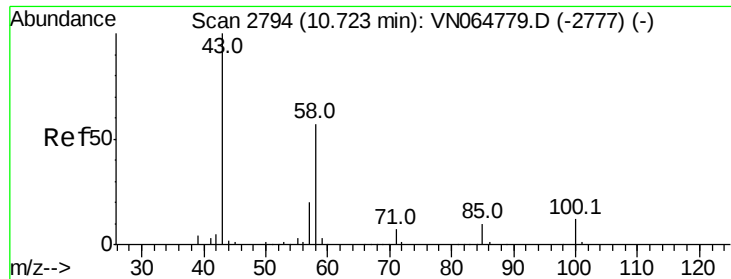
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 93.686 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

Instrument :

MSVOA_N

ClientSampled :

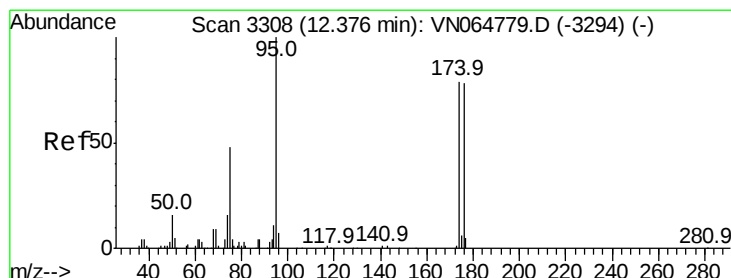
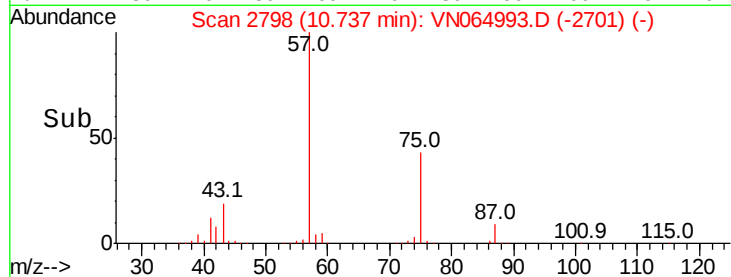
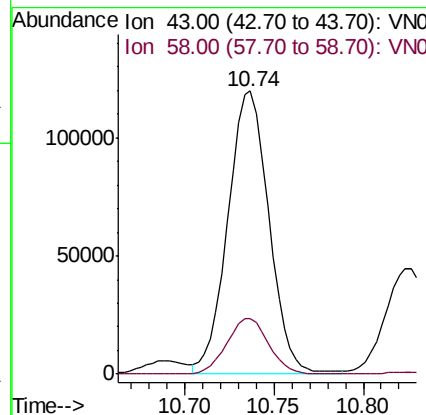
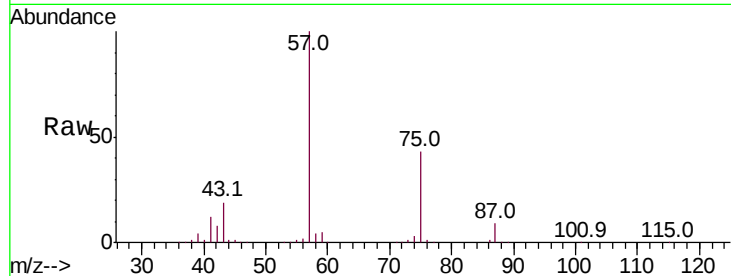
239995

Tot Ion: 43 Resp: 190401

Ion Ratio Lower Upper

43 100

58 20.3 28.3 84.9#



#62

4-Bromofluorobenzene

Concen: 54.535 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

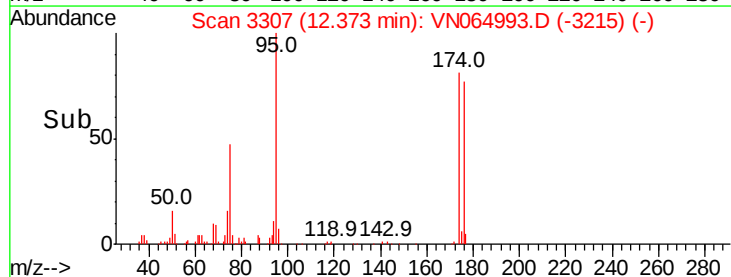
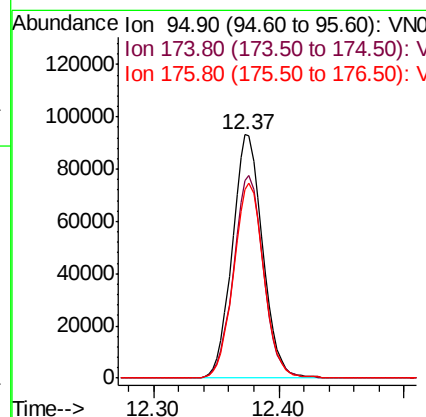
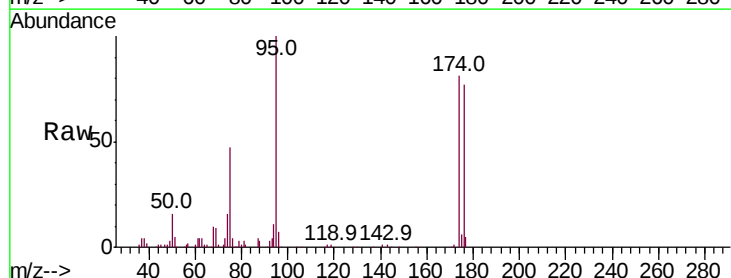
Tgt Ion: 95 Resp: 156225

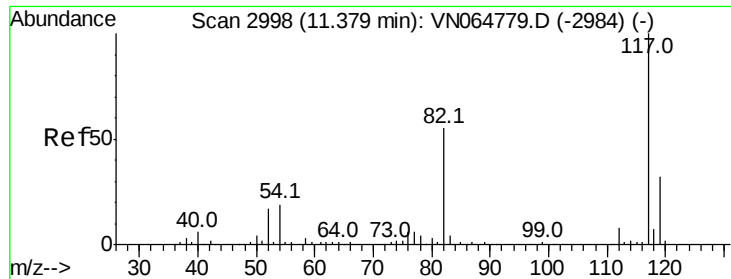
Ion Ratio Lower Upper

95 100

174 82.2 0.0 160.4

176 79.9 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: VN064993.D

Acq: 9 Dec 2020 1:51

Instrument :

MSVOA_N

ClientSampled :

239995

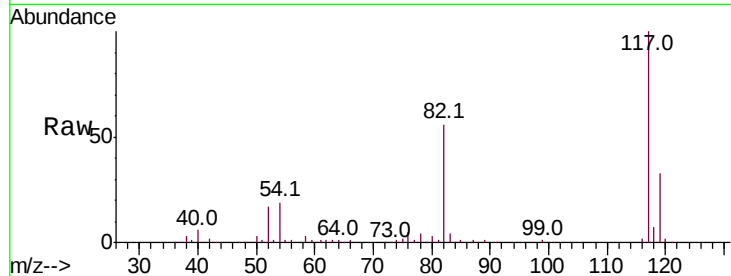
Tot Ion:117 Resp: 343969

Ion Ratio Lower Upper

117 100

82 55.6 44.2 66.2

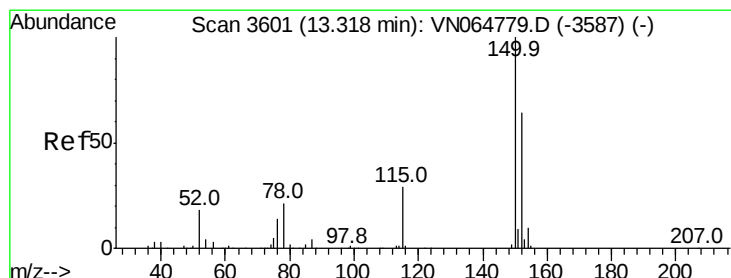
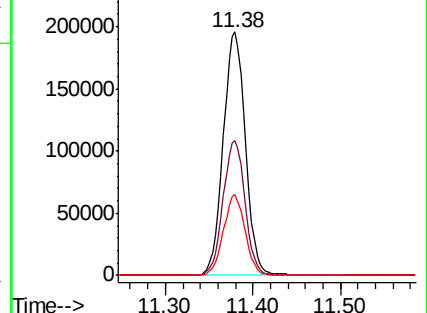
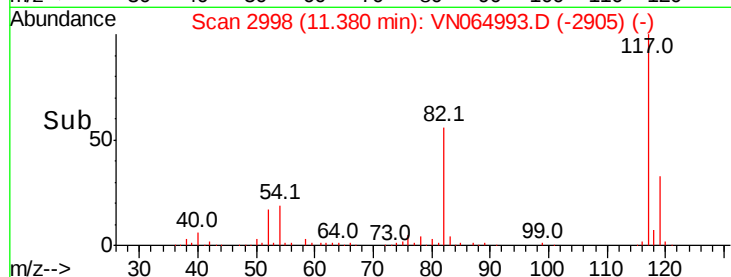
119 33.2 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

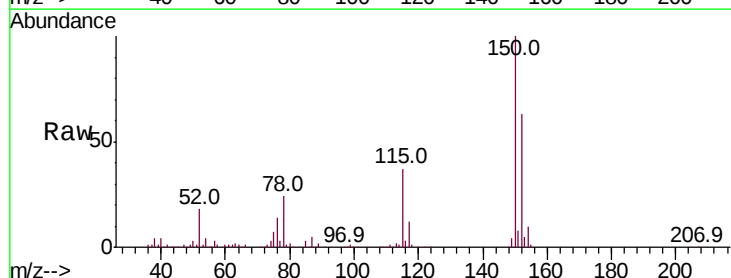
Tgt Ion:152 Resp: 145817

Ion Ratio Lower Upper

152 100

115 58.6 29.7 89.1

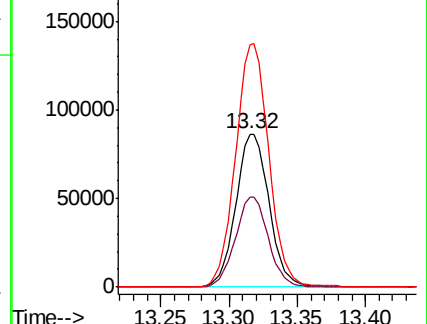
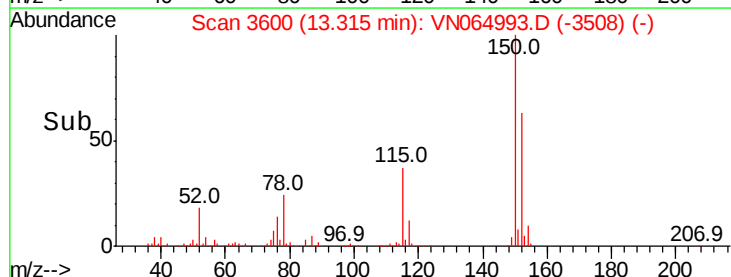
150 160.3 0.0 350.6

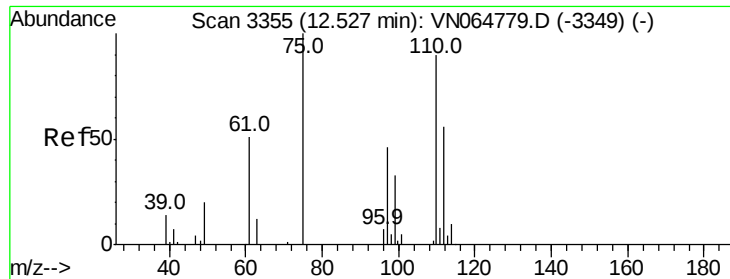


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.517 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

Instrument :

MSVOA_N

ClientSampleId :

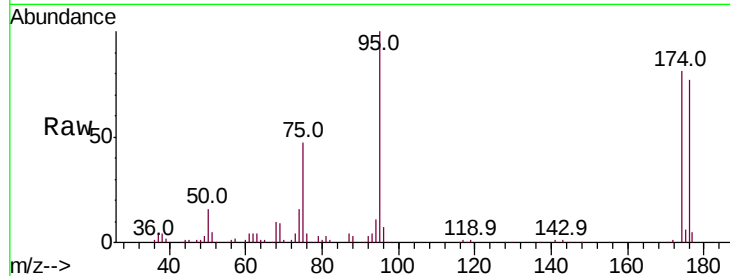
239995

Tot Ion: 75 Resp: 73849

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.37

40000

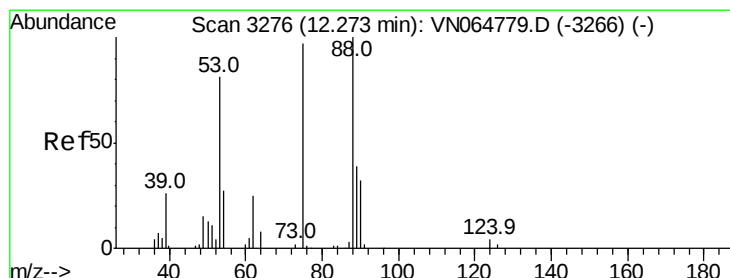
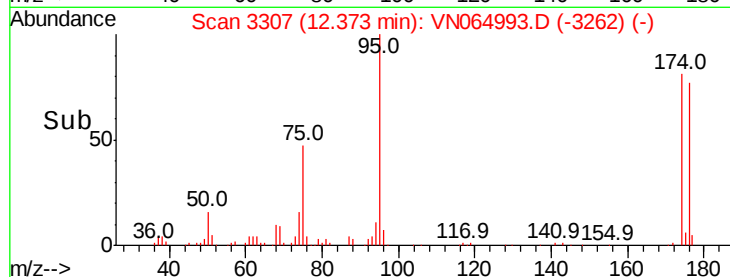
30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45



#81

trans-1,4-Dichloro-2-butene

Concen: 64.453 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064993.D

Acq: 9 Dec 2020 1:51

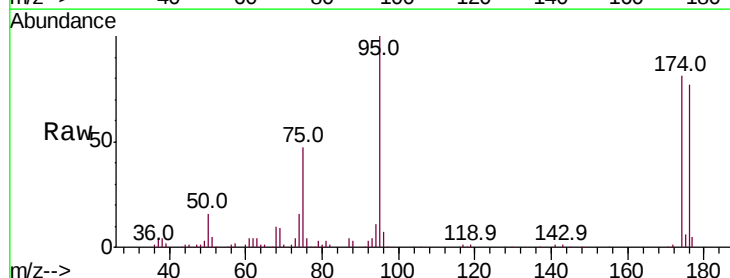
Tgt Ion: 75 Resp: 73849

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.37

60000

50000

40000

30000

20000

10000

0

Time--> 12.30 12.35 12.40 12.45

