

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064999.D
 Acq On : 9 Dec 2020 4:15
 Operator : JC/MD
 Sample : L4970-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-C-BOTTOM

Quant Time: Dec 09 08:00:11 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	7.62	168	169204	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	317934	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	336764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139955	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	108915	55.37	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	110.74%		
35) Dibromofluoromethane	7.55	113	99422	52.26	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	104.52%		
50) Toluene-d8	10.06	98	406989	52.36	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	104.72%		
62) 4-Bromofluorobenzene	12.38	95	149703	53.81	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	107.62%		

Target Compounds

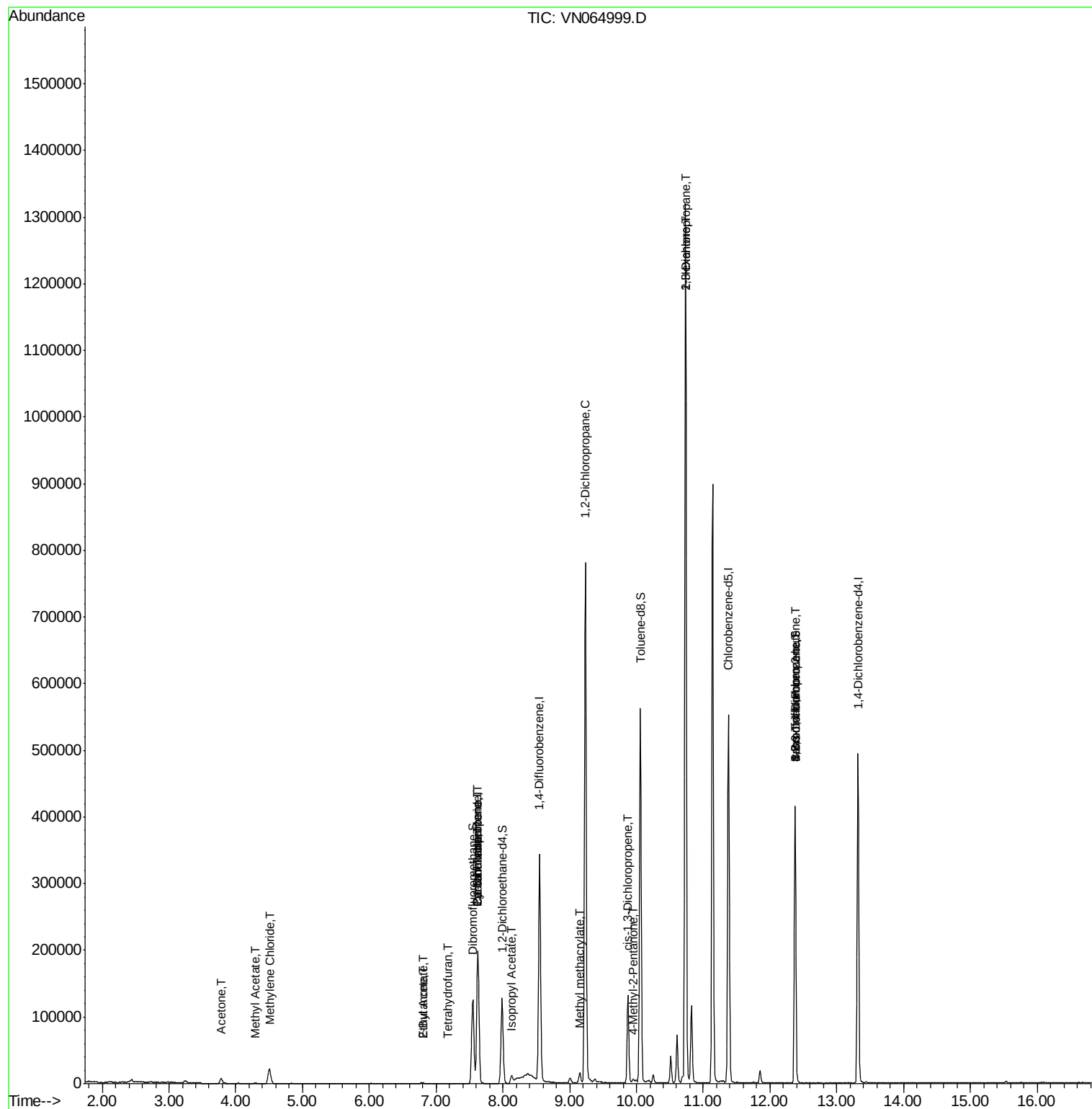
					Qvalue	
16) Acetone	3.78	43	14022	21.684	ug/l	100
18) Methyl Acetate	4.29	43	1047	0.539	ug/l #	50
20) Methylene Chloride	4.50	84	17147	8.462	ug/l	95
25) 2-Butanone	6.81	43	1814	1.731	ug/l	99
29) Tetrahydrofuran	7.18	42	178	0.246	ug/l #	61
31) Cyclohexane	7.62	56	2864	1.045	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11289	3.831	ug/l #	50
37) Ethyl Acetate	6.81	43	1814	0.639	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15622	5.095	ug/l #	19
43) Isopropyl Acetate	8.13	43	16264	3.561	ug/l #	93
45) 1,2-Dichloropropane	9.23	63	951	0.407	ug/l #	43
48) Methyl methacrylate	9.14	41	3726	1.707	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3828	1.396	ug/l #	87
54) cis-1,3-Dichloropropene	9.87	75	24709	6.584	ug/l #	63
57) 1,3-Dichloropropane	10.73	76	13847	3.671	ug/l #	42
59) 2-Hexanone	10.74	43	179407	90.905	ug/l #	51
71) Bromoform	12.38	173	1365	0.643	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	69378	23.018	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	69378	63.087	ug/l #	15

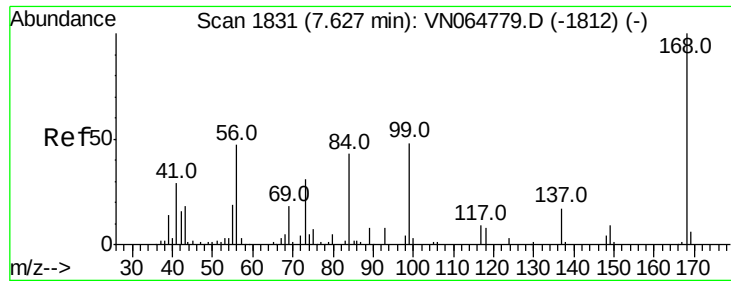
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064999.D

Acq: 9 Dec 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

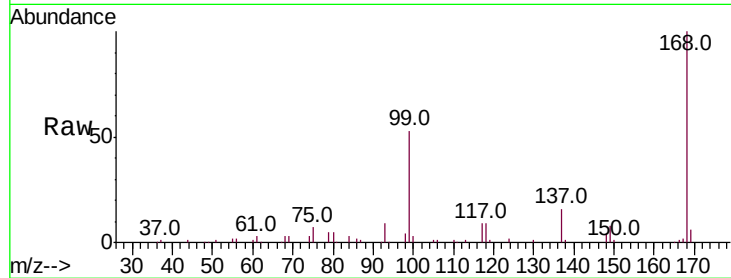
4S2-C-BOTTOM

Tot Ion:168 Resp: 169204

Ion Ratio Lower Upper

168 100

99 52.9 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

60000

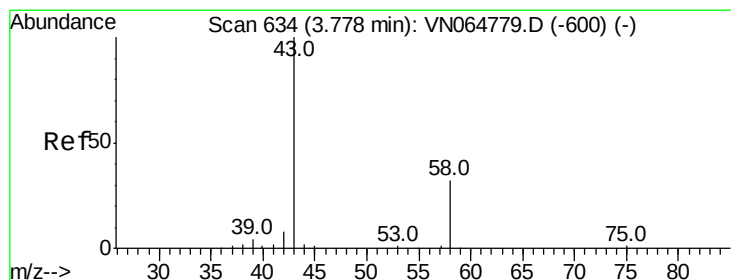
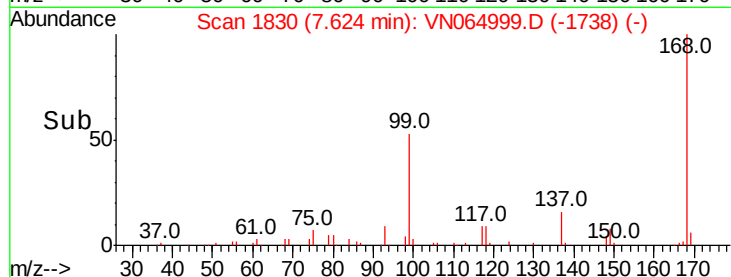
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 21.684 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN064999.D

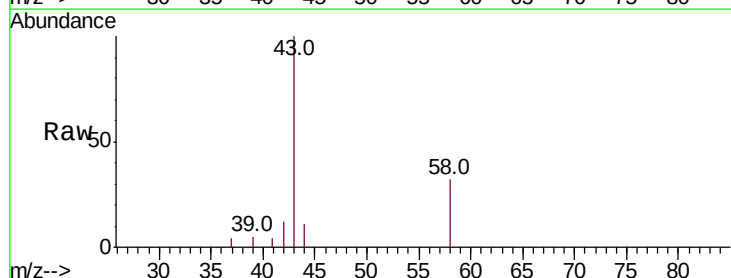
Acq: 9 Dec 2020 4:15

Tgt Ion: 43 Resp: 14022

Ion Ratio Lower Upper

43 100

58 32.1 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

5000

4000

3000

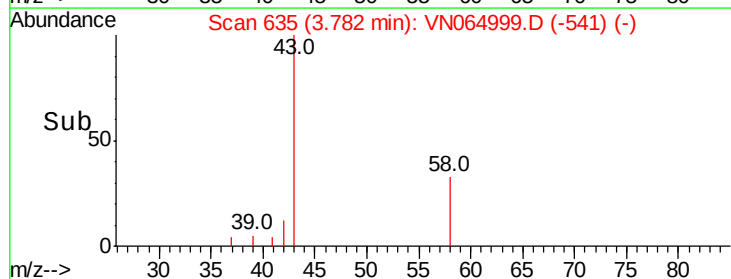
2000

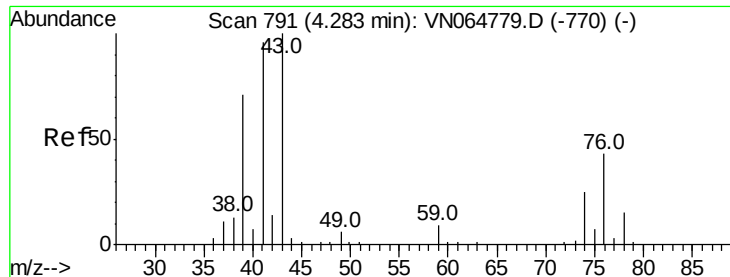
1000

0

3.70 3.75 3.80 3.85 3.90

Time-->

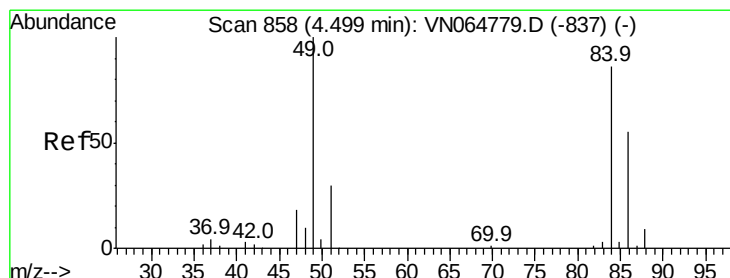
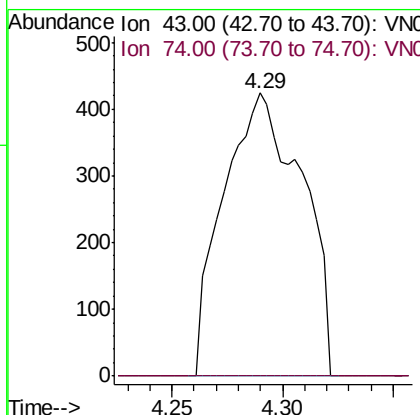
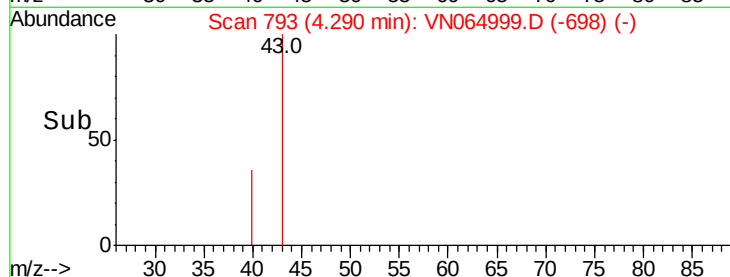
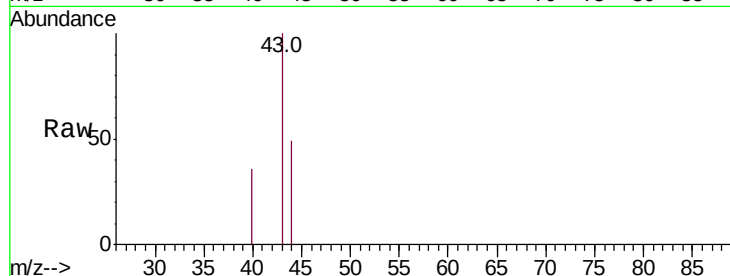




#18
Methyl Acetate
Concen: 0.539 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

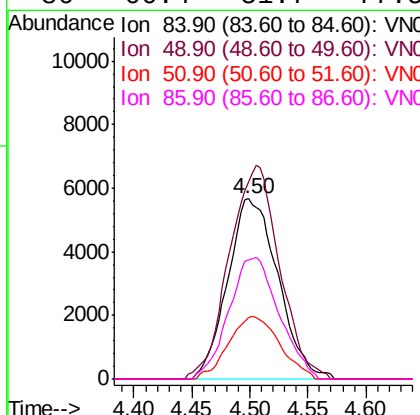
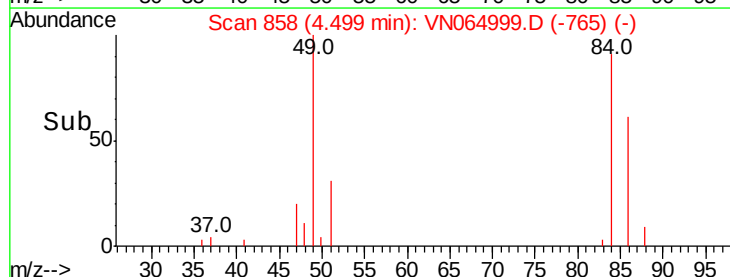
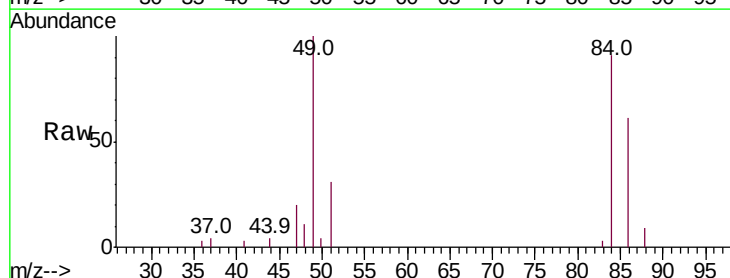
Instrument :
MSVOA_N
ClientSampleId :
4S2-C-BOTTOM

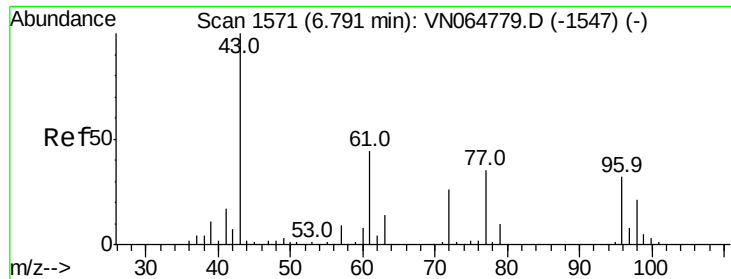
Tot Ion: 43 Resp: 1047
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 8.462 ug/l
RT: 4.50 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

Tgt Ion: 84 Resp: 17147
Ion Ratio Lower Upper
84 100
49 109.5 93.4 140.0
51 33.9 28.2 42.4
86 66.4 51.7 77.5





#25

2-Butanone

Concen: 1.731 ug/l

RT: 6.81 min Scan# 1576

Delta R.T. 0.02 min

Lab File: VN064999.D

Acq: 9 Dec 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

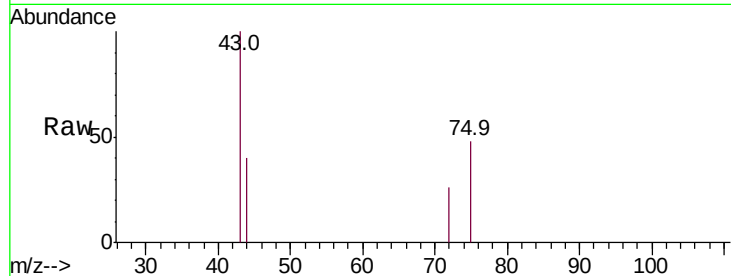
4S2-C-BOTTOM

Tot Ion: 43 Resp: 1814

Ion Ratio Lower Upper

43 100

72 25.8 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.81

600

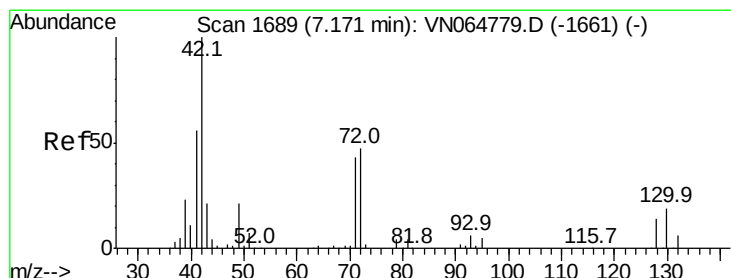
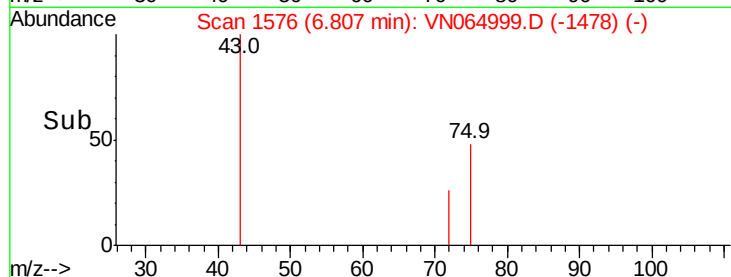
400

200

0

6.75 6.80 6.85

Time-->



#29

Tetrahydrofuran

Concen: 0.246 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VN064999.D

Acq: 9 Dec 2020 4:15

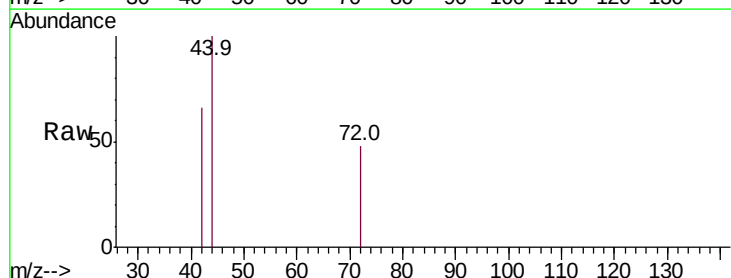
Tgt Ion: 42 Resp: 178

Ion Ratio Lower Upper

42 100

72 55.1 36.6 54.8#

71 0.0 33.6 50.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

250

200

150

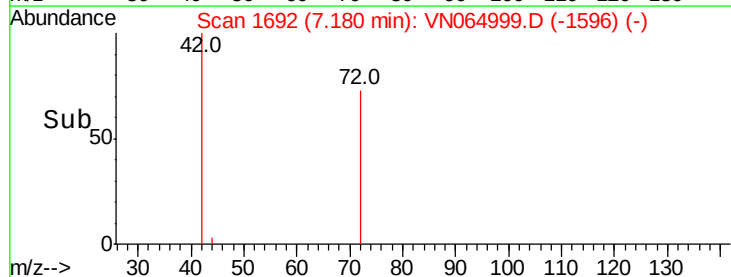
100

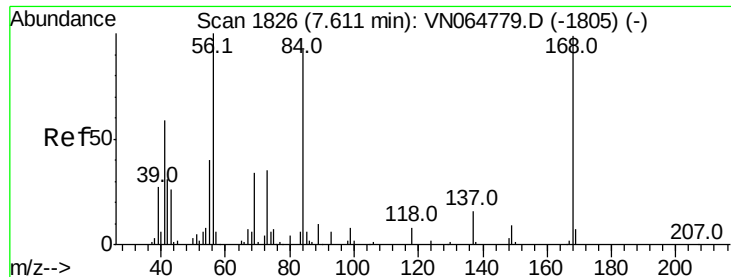
50

0

7.16 7.17 7.18 7.19

Time-->

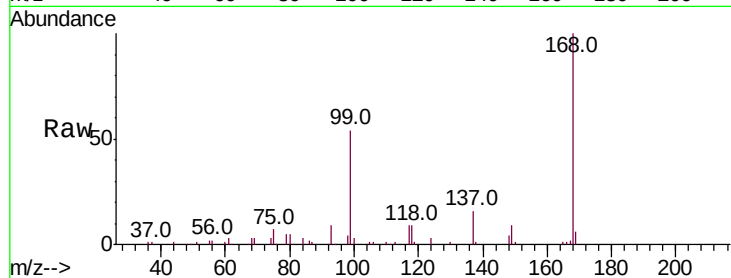




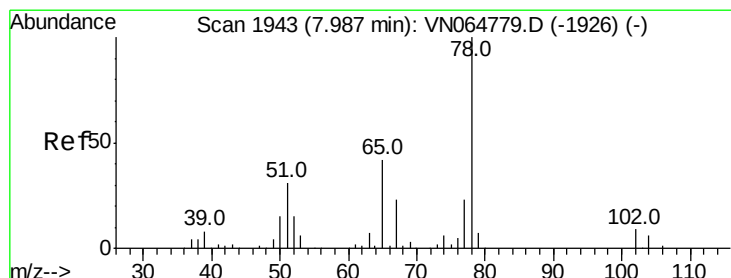
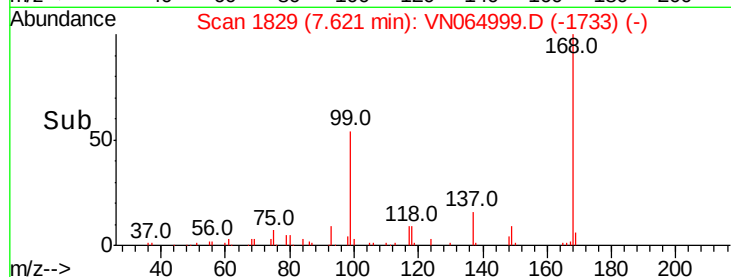
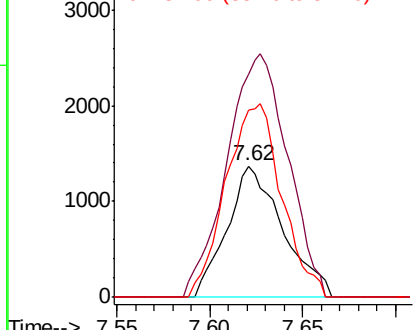
#31
Cyclohexane
Concen: 1.045 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

Instrument :
MSVOA_N
ClientSampleId :
4S2-C-BOTTOM

Tot Ion: 56 Resp: 2864
Ion Ratio Lower Upper
56 100
69 169.8 27.5 41.3#
84 142.9 73.9 110.9#

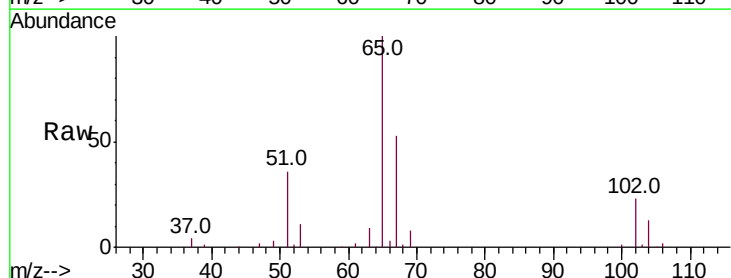


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

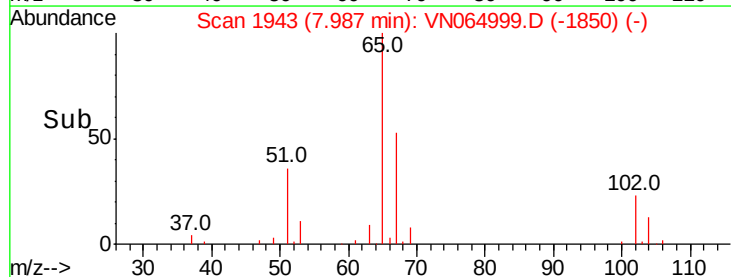
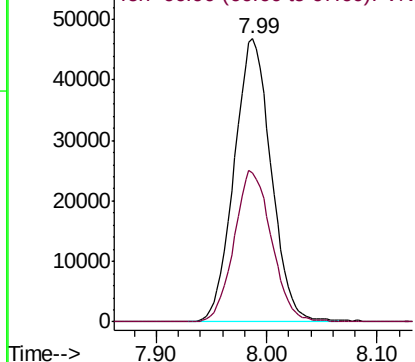


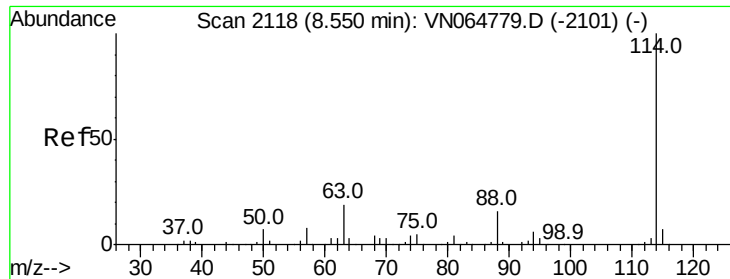
#33
1,2-Dichloroethane-d4
Concen: 55.368 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

Tgt Ion: 65 Resp: 108915
Ion Ratio Lower Upper
65 100
67 53.9 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

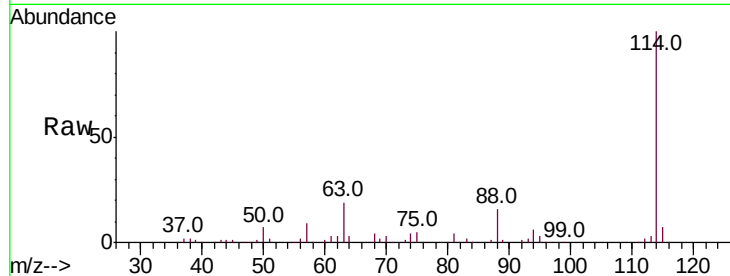




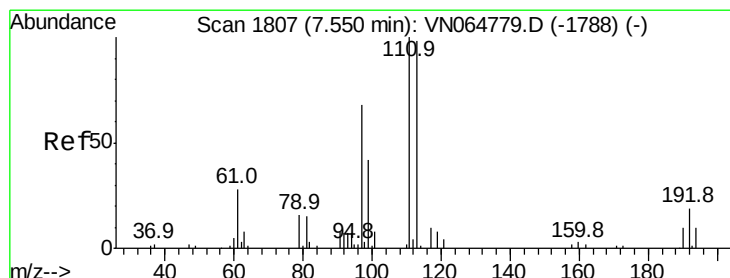
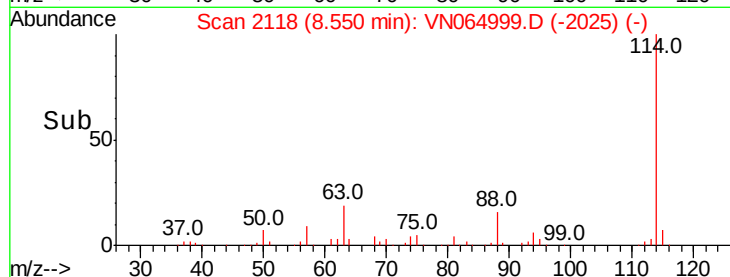
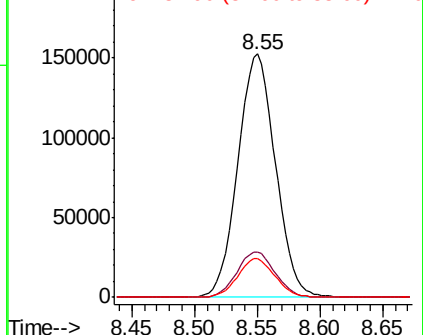
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064999.D
 Acq: 9 Dec 2020 4:15

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-C-BOTTOM

Tot Ion:114 Resp: 317934
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 38.6
 88 15.7 0.0 32.6

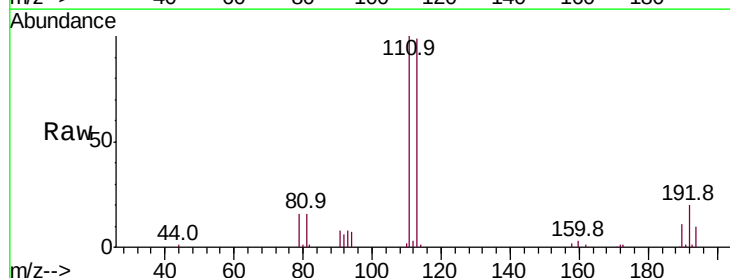


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

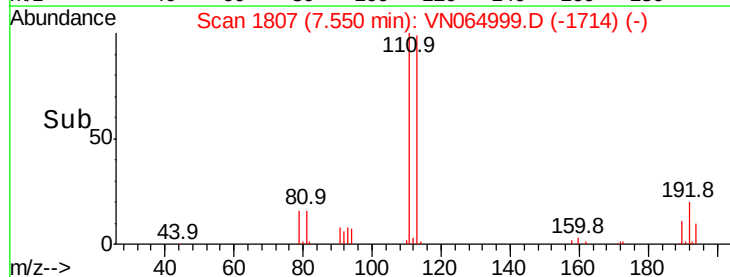
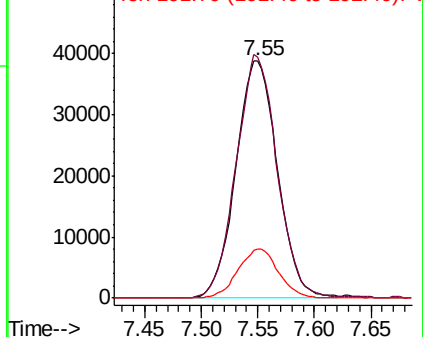


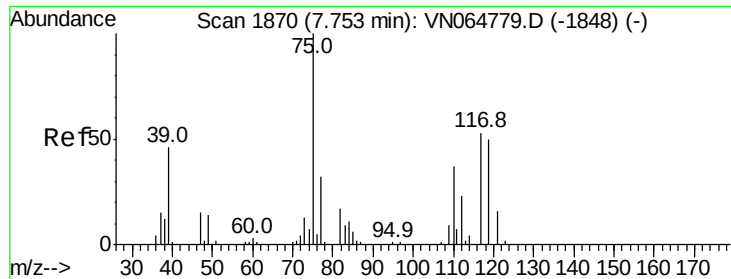
#35
 Dibromofluoromethane
 Concen: 52.261 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064999.D
 Acq: 9 Dec 2020 4:15

Tgt Ion:113 Resp: 99422
 Ion Ratio Lower Upper
 113 100
 111 100.8 81.6 122.4
 192 20.1 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

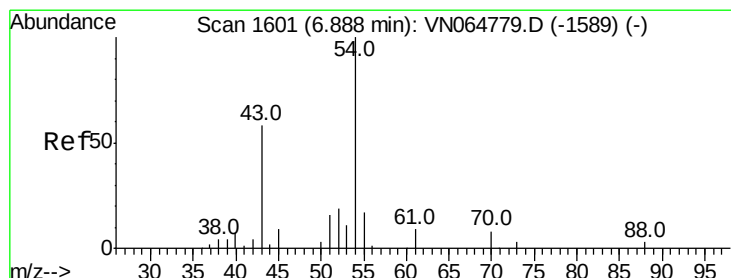
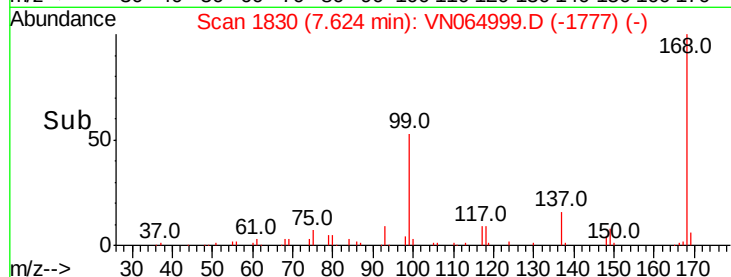
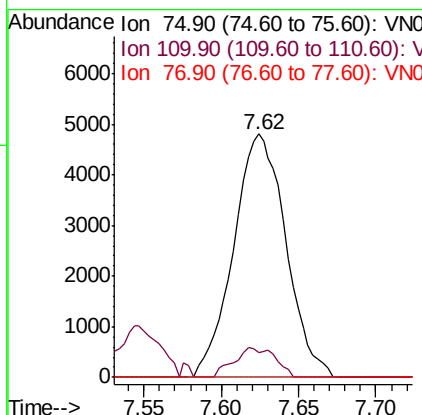
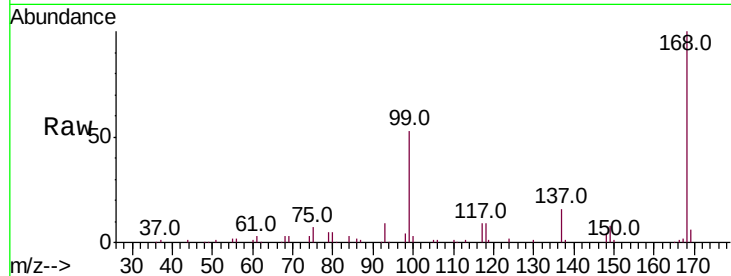




#36
 1,1-Dichloropropene
 Concen: 3.831 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064999.D
 Acq: 9 Dec 2020 4:15

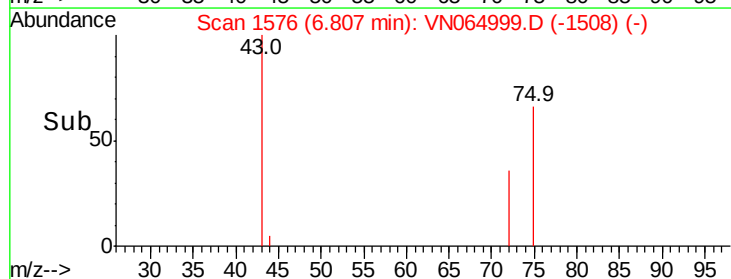
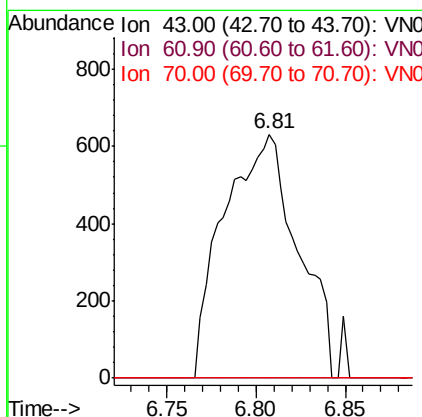
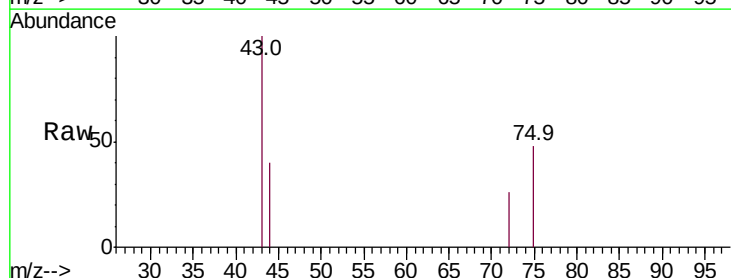
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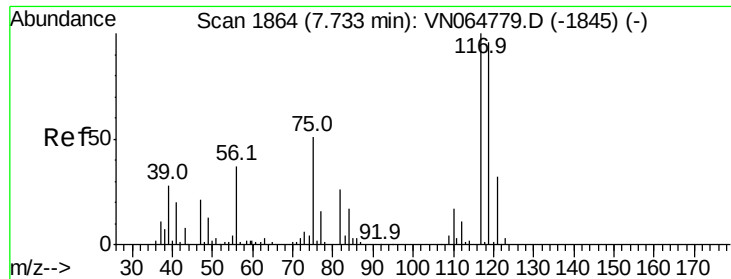
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.7	17.8	53.3#
77	0.0	25.0	37.4#



#37
 Ethyl Acetate
 Concen: 0.639 ug/l
 RT: 6.81 min Scan# 1576
 Delta R.T. -0.08 min
 Lab File: VN064999.D
 Acq: 9 Dec 2020 4:15

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

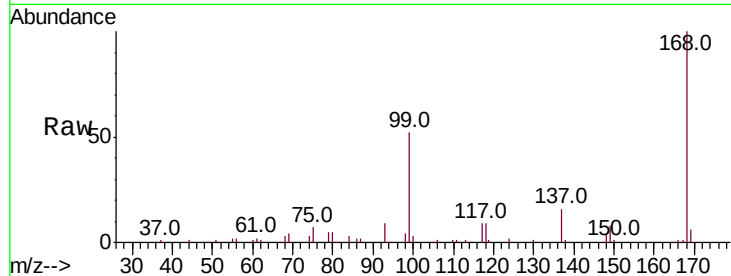




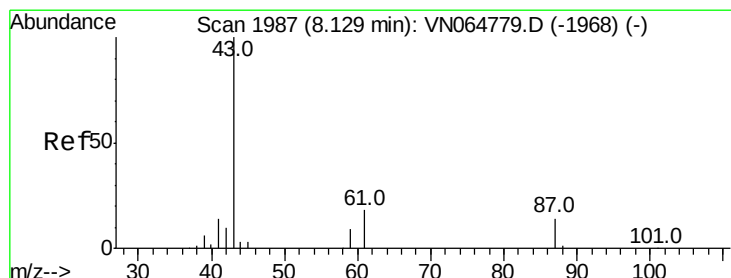
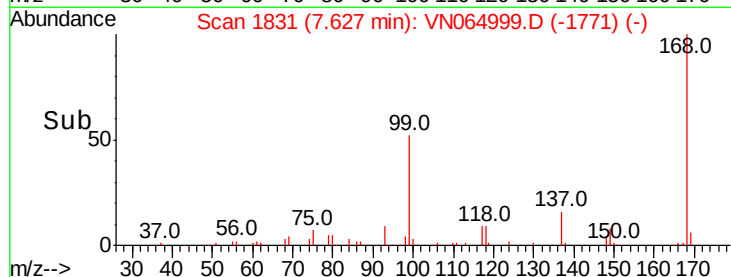
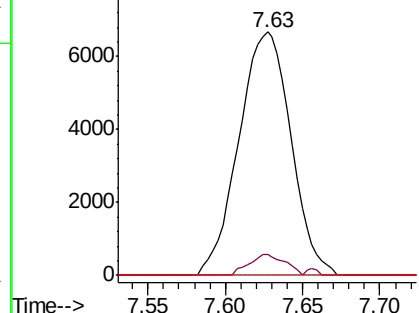
#38
Carbon Tetrachloride
Concen: 5.095 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

Instrument :
MSVOA_N
ClientSampleId :
4S2-C-BOTTOM

Tot Ion:117 Resp: 15622
Ion Ratio Lower Upper
117 100
119 8.6 76.7 115.1#
121 0.0 25.4 38.2#

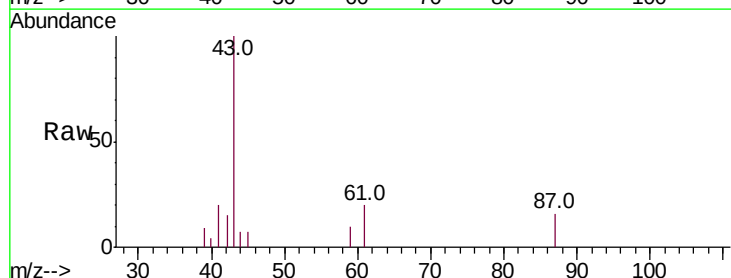


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

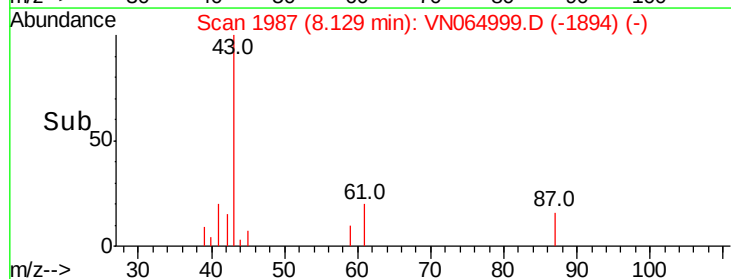
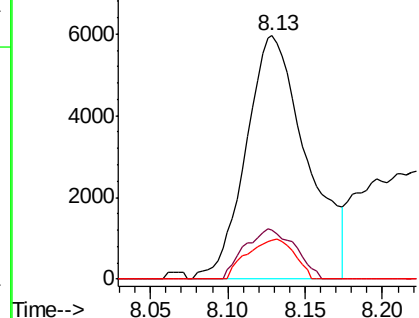


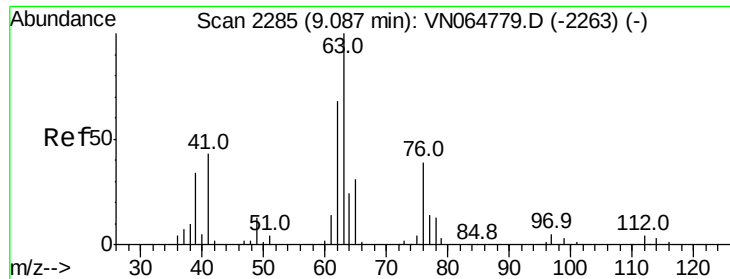
#43
Isopropyl Acetate
Concen: 3.561 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

Tgt Ion: 43 Resp: 16264
Ion Ratio Lower Upper
43 100
61 17.1 17.2 25.8#
87 12.7 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

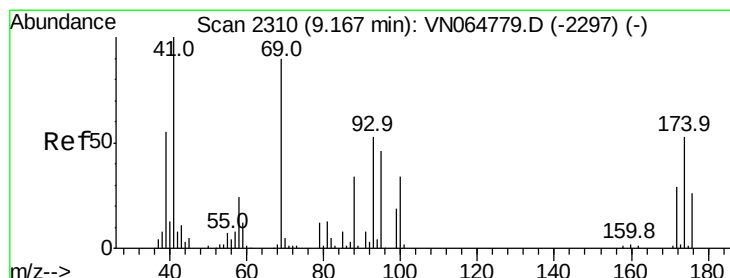
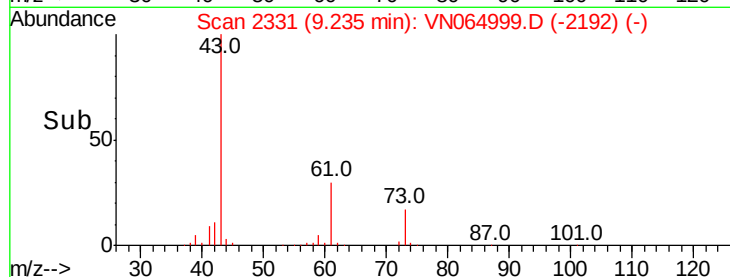
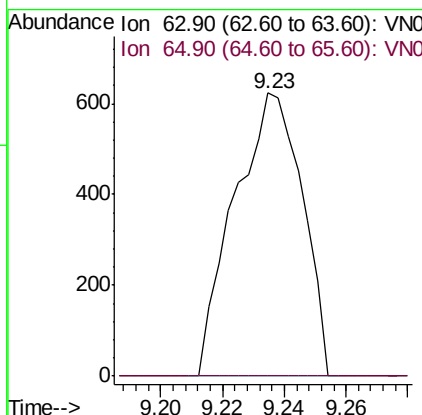
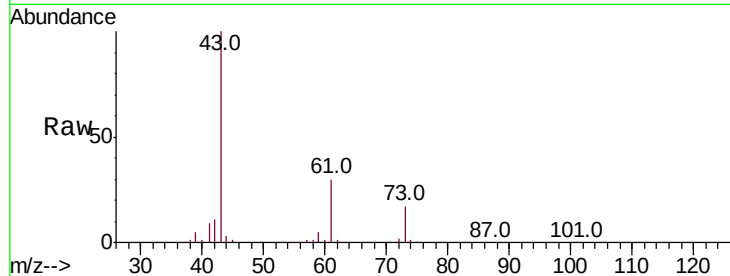




#45
 1,2-Dichloropropane
 Concen: 0.407 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN064999.D
 Acq: 9 Dec 2020 4:15

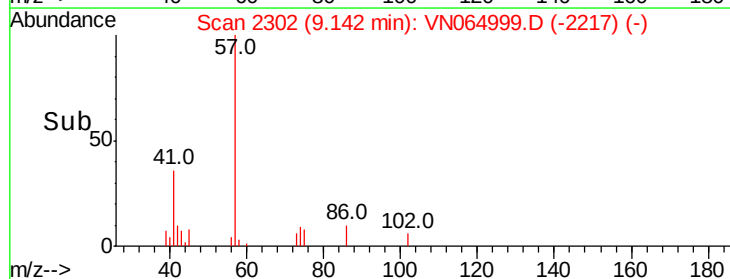
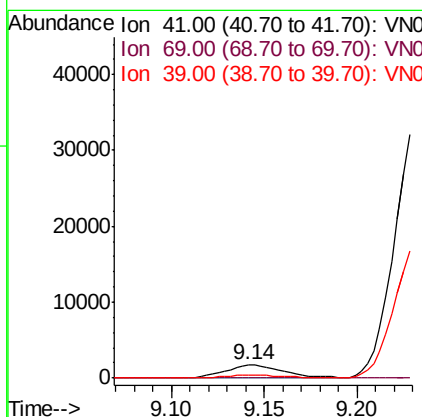
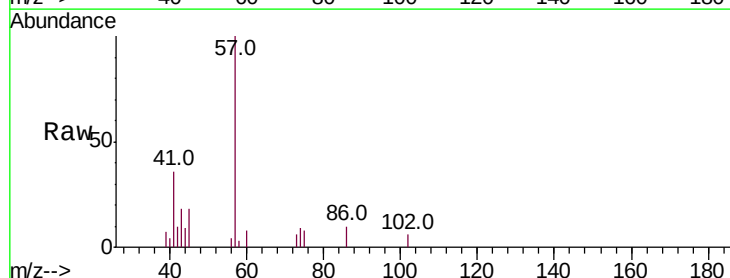
Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-C-BOTTOM

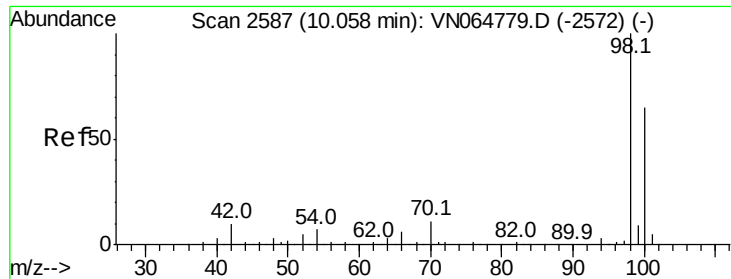
Tot Ion: 63 Resp: 951
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.707 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.03 min
 Lab File: VN064999.D
 Acq: 9 Dec 2020 4:15

Tgt Ion: 41 Resp: 3726
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 52.359 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064999.D

Acq: 9 Dec 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

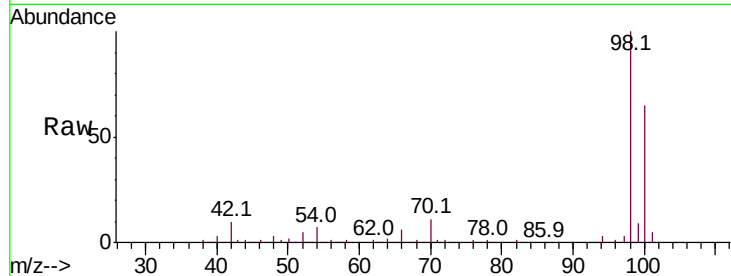
4S2-C-BOTTOM

Tot Ion: 98 Resp: 406989

Ion Ratio Lower Upper

98 100

100 64.1 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

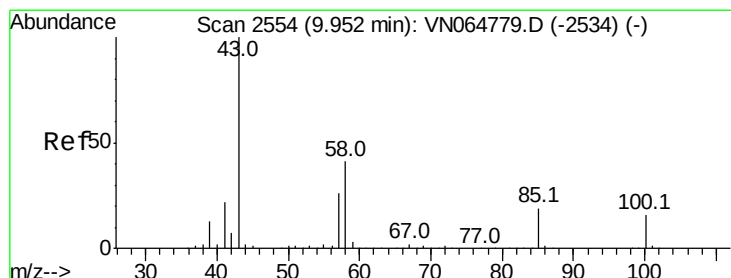
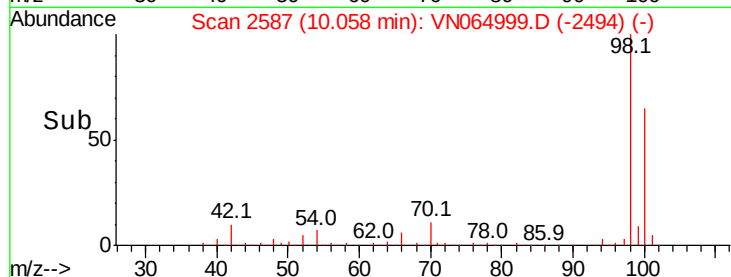
50000

0

10.06

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.396 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064999.D

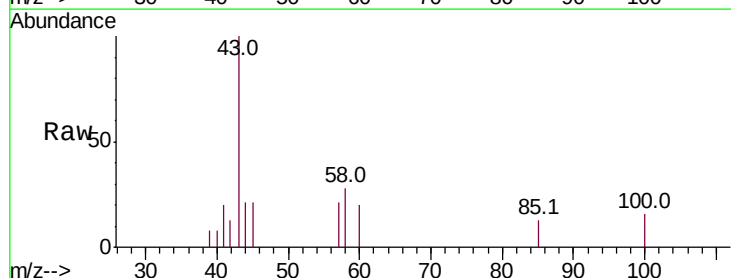
Acq: 9 Dec 2020 4:15

Tgt Ion: 43 Resp: 3828

Ion Ratio Lower Upper

43 100

58 32.4 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

6000

4000

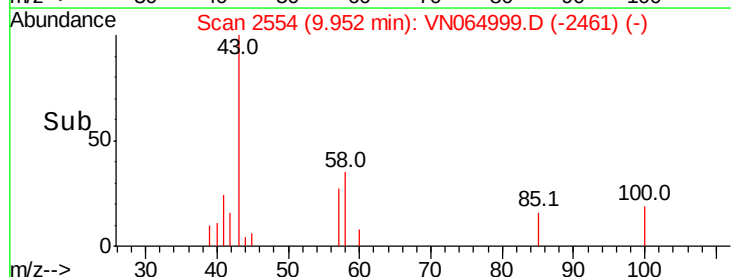
2000

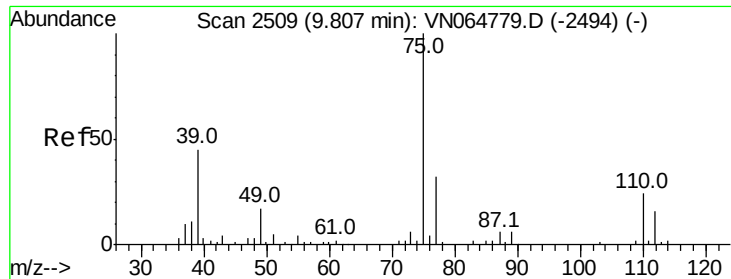
0

9.95

9.90

Time-->



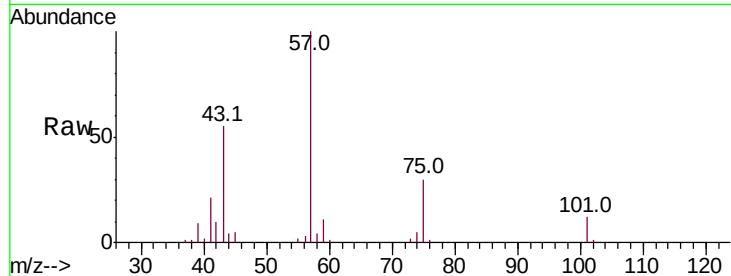


#54

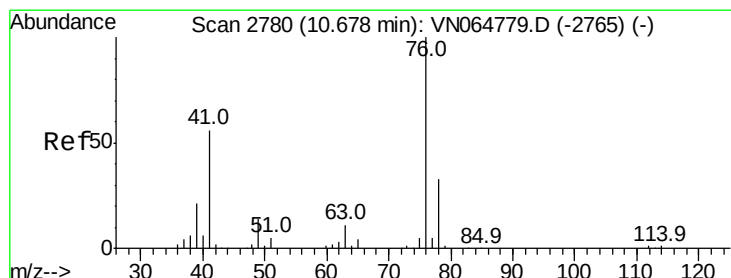
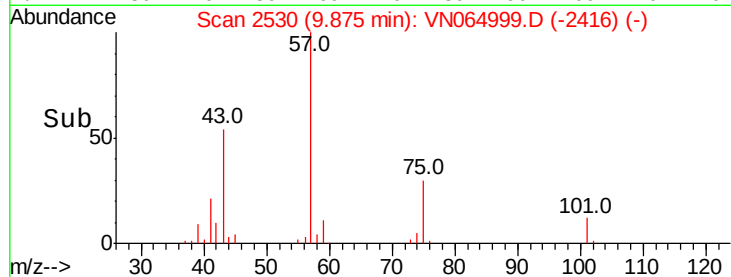
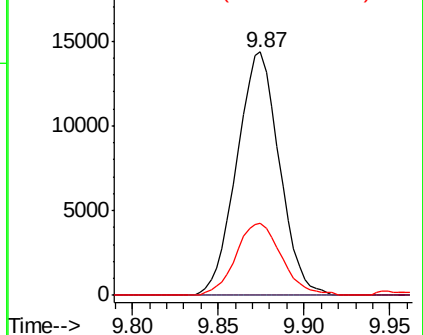
cis-1,3-Dichloropropene
 Concen: 6.584 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064999.D
 Acq: 9 Dec 2020 4:15

Instrument :
 MSVOA_N
 ClientSampleId :
 4S2-C-BOTTOM

Tot Ion: 75 Resp: 24709
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 29.4 35.6 53.4#



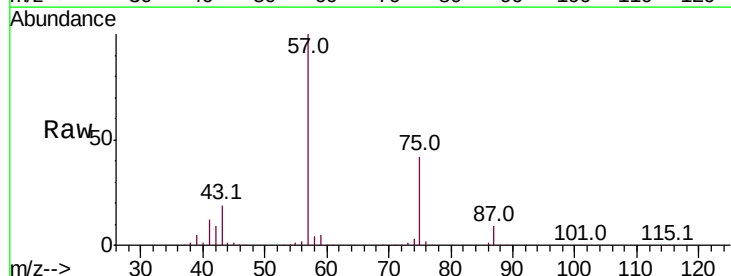
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



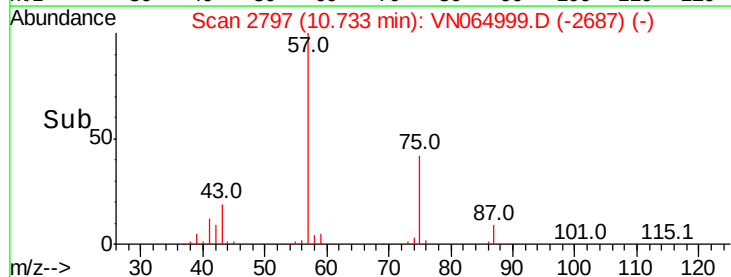
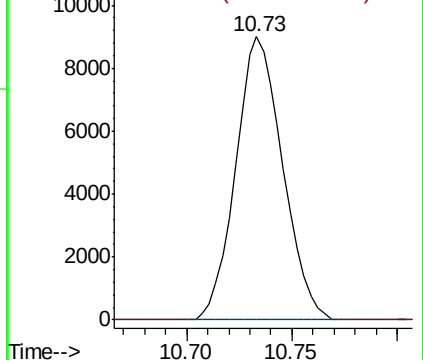
#57

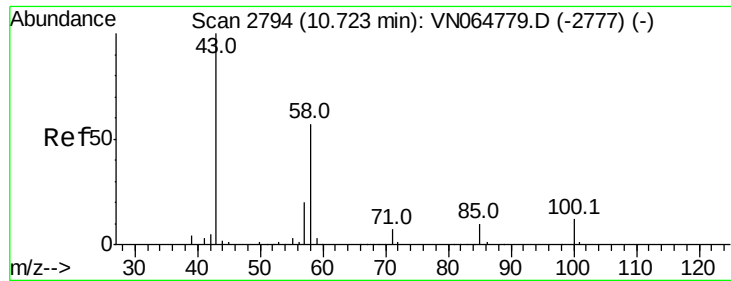
1,3-Dichloropropane
 Concen: 3.671 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064999.D
 Acq: 9 Dec 2020 4:15

Tgt Ion: 76 Resp: 13847
 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

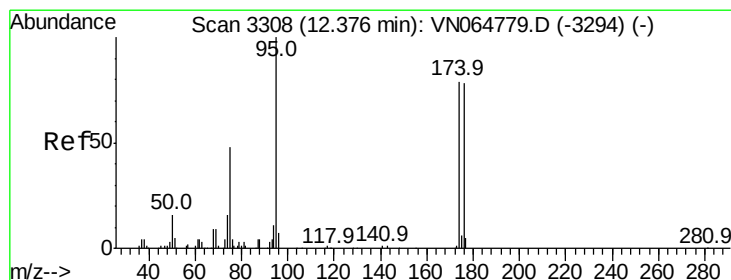
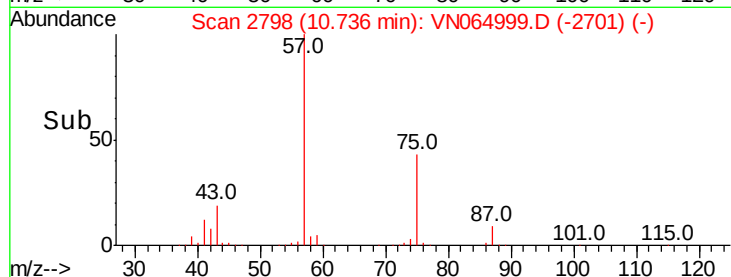
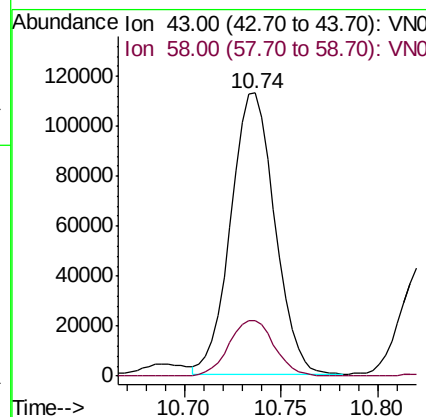
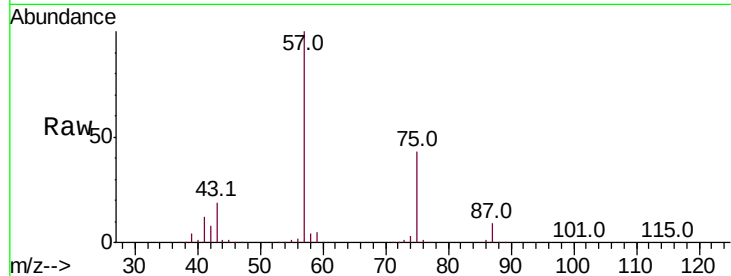




#59
2-Hexanone
Concen: 90.905 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

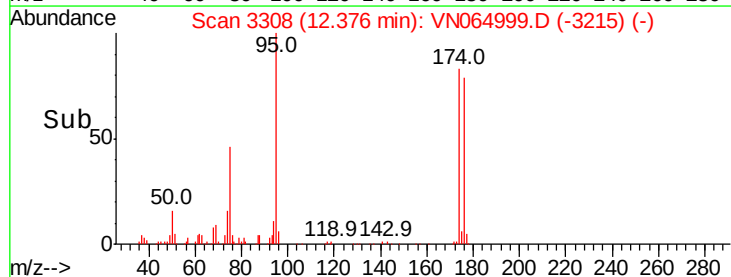
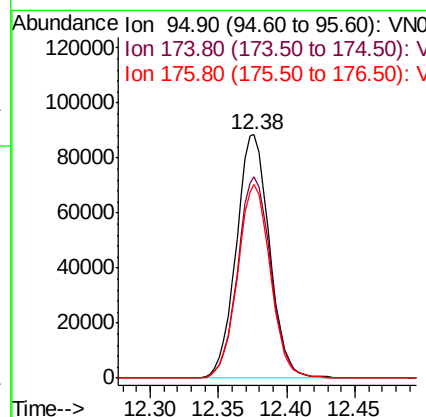
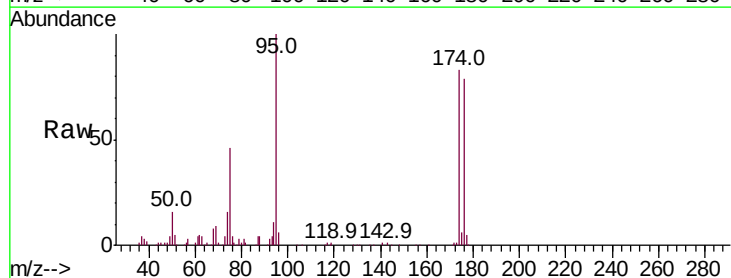
Instrument :
MSVOA_N
ClientSampleId :
4S2-C-BOTTOM

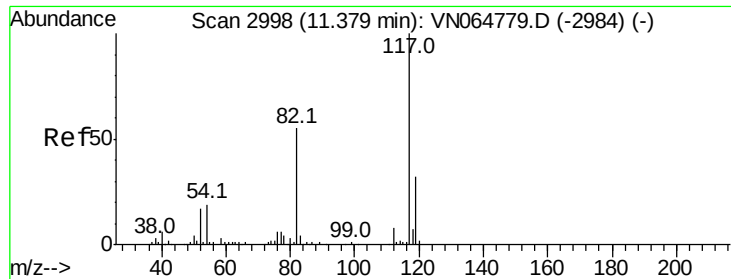
Tot Ion: 43 Resp: 179407
Ion Ratio Lower Upper
43 100
58 20.6 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 53.814 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

Tgt Ion: 95 Resp: 149703
Ion Ratio Lower Upper
95 100
174 82.8 0.0 160.4
176 78.5 0.0 158.4

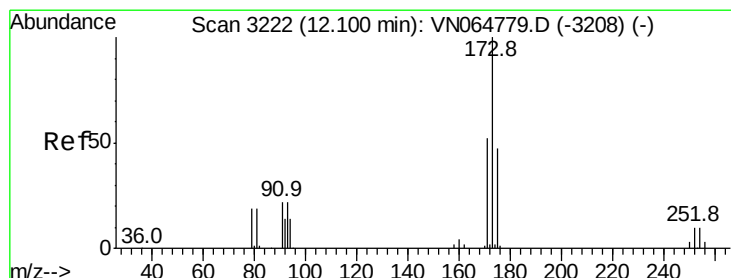
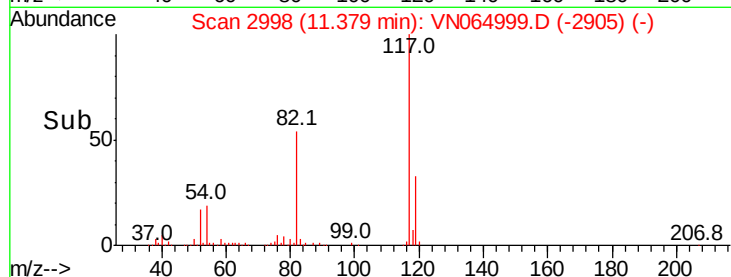
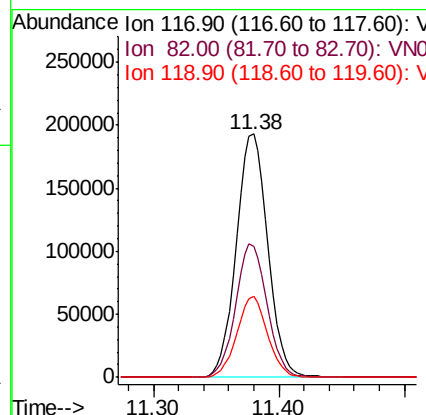
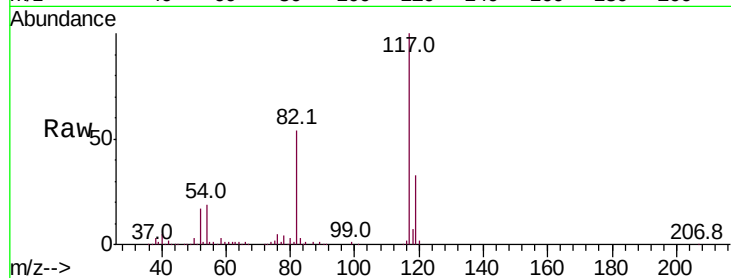




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

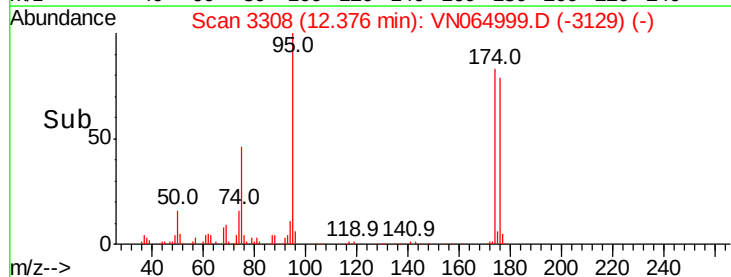
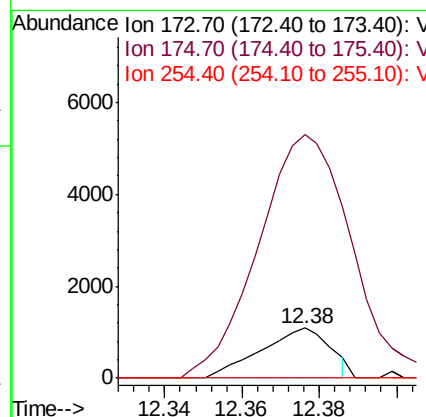
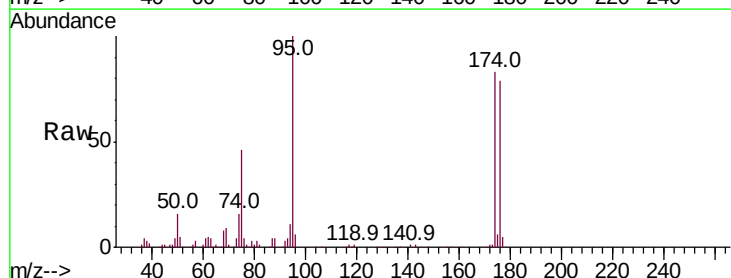
Instrument :
MSVOA_N
ClientSampleId :
4S2-C-BOTTOM

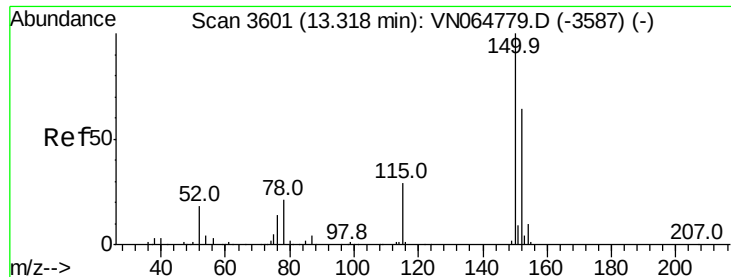
Tot Ion:117 Resp: 336764
Ion Ratio Lower Upper
117 100
82 54.0 44.2 66.2
119 33.1 25.8 38.6



#71
Bromoform
Concen: 0.643 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN064999.D
Acq: 9 Dec 2020 4:15

Tgt Ion:173 Resp: 1365
Ion Ratio Lower Upper
173 100
175 548.4 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: VN064999.D

Acq: 9 Dec 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

4S2-C-BOTTOM

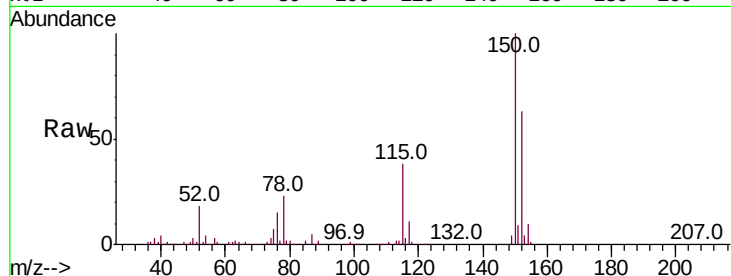
Tot Ion:152 Resp: 139955

Ion Ratio Lower Upper

152 100

115 59.7 29.7 89.1

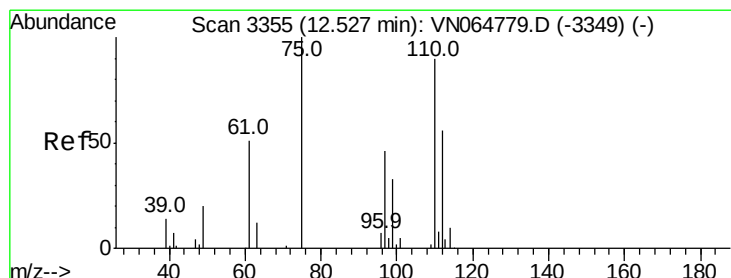
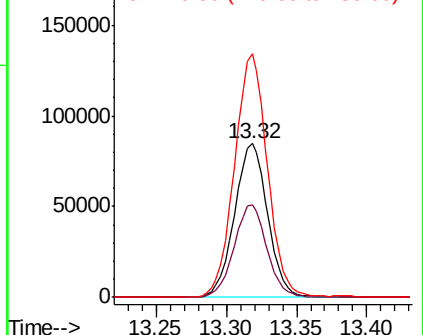
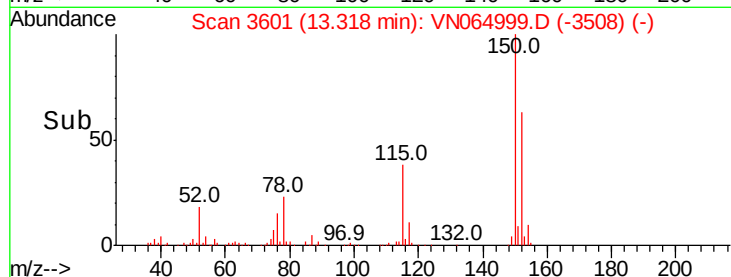
150 156.8 0.0 350.6



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



#76

1,2,3-Trichloropropane

Concen: 23.018 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064999.D

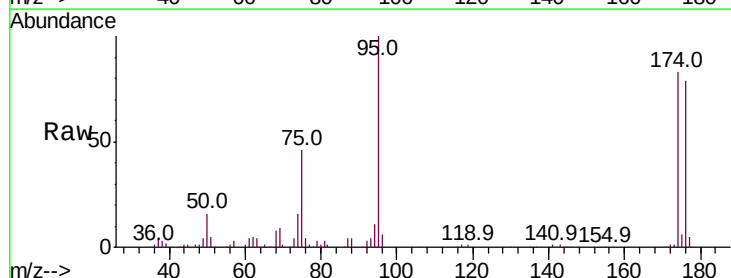
Acq: 9 Dec 2020 4:15

Tgt Ion: 75 Resp: 69378

Ion Ratio Lower Upper

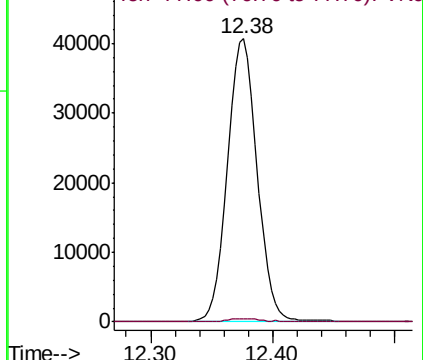
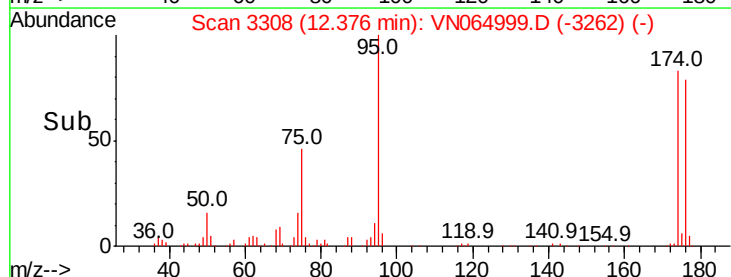
75 100

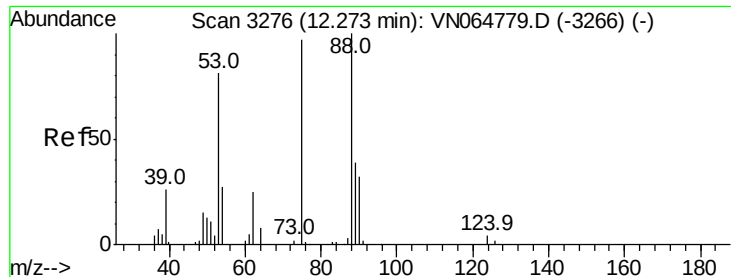
77 1.2 0.0 0.0#



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: 63.087 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064999.D

Acq: 9 Dec 2020 4:15

Instrument :

MSVOA_N

ClientSampleId :

4S2-C-BOTTOM

Tot Ion: 75 Resp: 69378

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

