

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112420\
 Data File : VN064839.D
 Acq On : 25 Nov 2020 3:30
 Operator : JC/MD
 Sample : L4798-13DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20201118

Quant Time: Nov 25 06:00:35 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	168718	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	294199	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	305926	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	139207	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	102069	52.04	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	104.08%
35) Dibromofluoromethane	7.55	113	93674	53.21	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	106.42%
50) Toluene-d8	10.06	98	370753	51.54	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	103.08%
62) 4-Bromofluorobenzene	12.38	95	143685	55.82	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	111.64%

Target Compounds

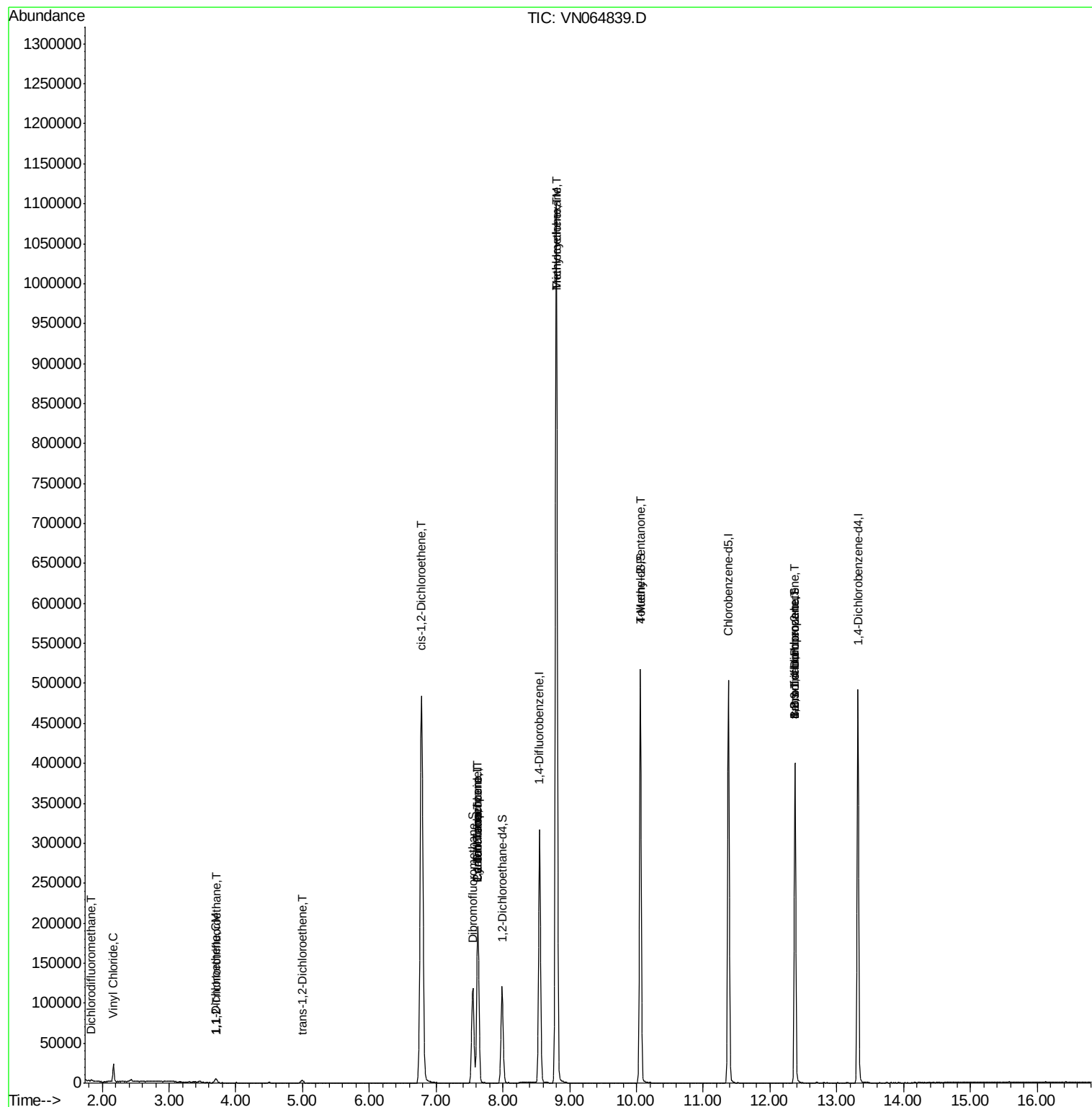
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	1634	1.117	ug/l	97
4) Vinyl Chloride	2.17	62	20980	10.590	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	1740	1.059	ug/l #	18
12) 1,1-Dichloroethene	3.70	96	2097	1.282	ug/l	94
21) trans-1,2-Dichloroethene	4.99	96	2521	1.388	ug/l	91
27) cis-1,2-Dichloroethene	6.78	96	340180	166.395	ug/l	88
31) Cyclohexane	7.63	56	2807	1.027	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11089	4.066	ug/l #	49
38) Carbon Tetrachloride	7.63	117	15588	5.494	ug/l #	15
39) Methylcyclohexane	8.80	83	5121	1.744	ug/l #	1
44) Trichloroethene	8.80	130	426211	172.867	ug/l	100
51) 4-Methyl-2-Pentanone	10.05	43	1435	0.566	ug/l #	1
71) Bromoform	12.37	173	669	0.347	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	68001	22.683	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	68001	62.168	ug/l #	15

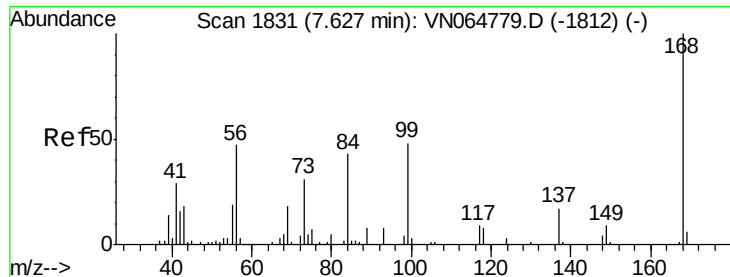
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

Instrument :

MSVOA_N

ClientSampleId :

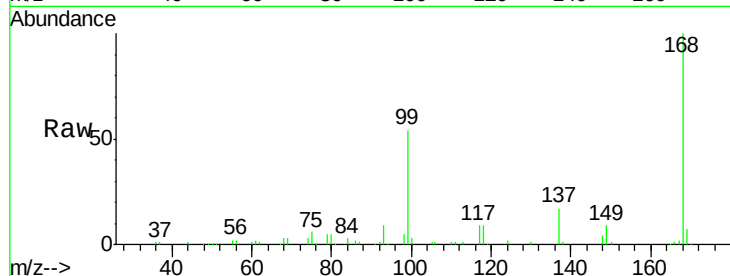
DUP01-20201118

Tot Ion:168 Resp: 168718

Ion Ratio Lower Upper

168 100

99 53.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

80000

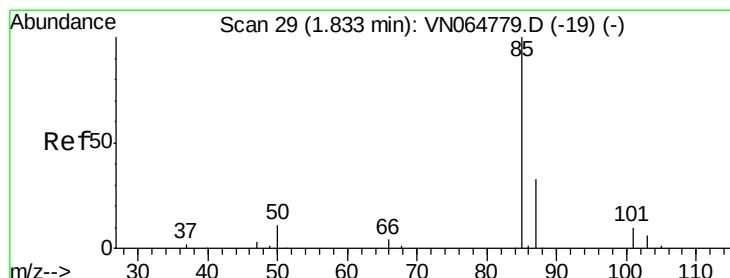
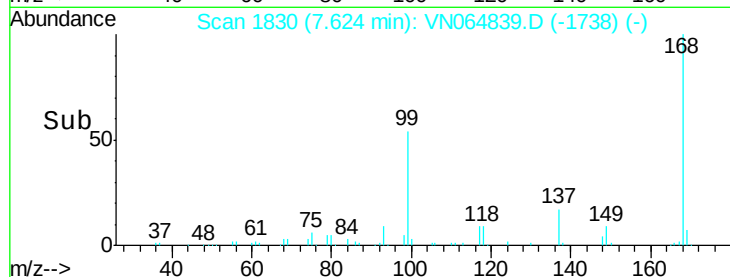
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 1.117 ug/l

RT: 1.83 min Scan# 29

Delta R.T. 0.00 min

Lab File: VN064839.D

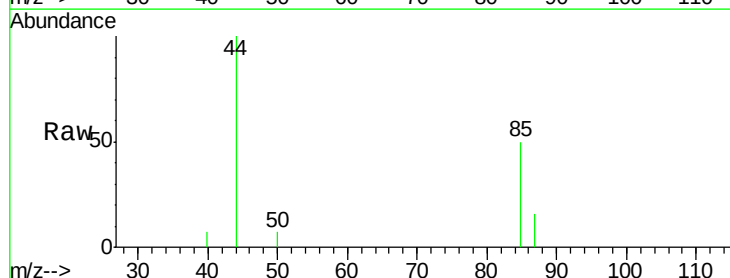
Acq: 25 Nov 2020 3:30

Tgt Ion: 85 Resp: 1634

Ion Ratio Lower Upper

85 100

87 31.2 16.4 49.4



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

1.83

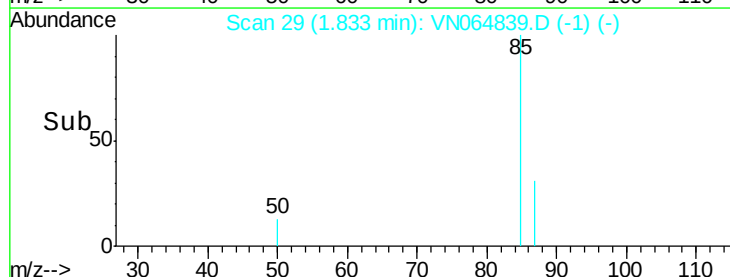
1500

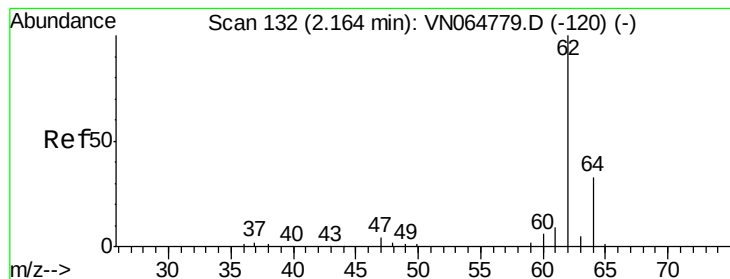
1000

500

0

Time--> 1.80 1.82 1.84 1.86





#4

Vinyl Chloride

Concen: 10.590 ug/l

RT: 2.17 min Scan# 133

Delta R.T. 0.00 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

Instrument :

MSVOA_N

ClientSampleId :

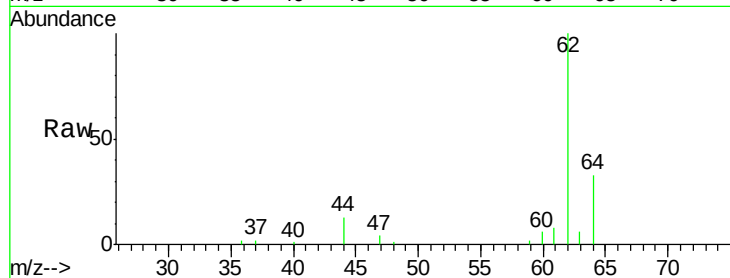
DUP01-20201118

Tot Ion: 62 Resp: 20980

Ion Ratio Lower Upper

62 100

64 33.2 26.5 39.7



Abundance Ion 61.90 (61.60 to 62.60): VN064839.D (-39) (-)

Ion 63.90 (63.60 to 64.60): VN064839.D (-39) (-)

15000

10000

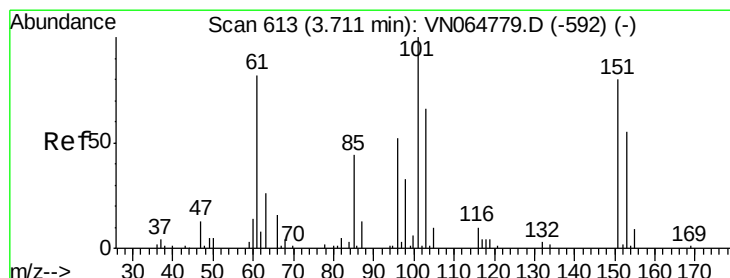
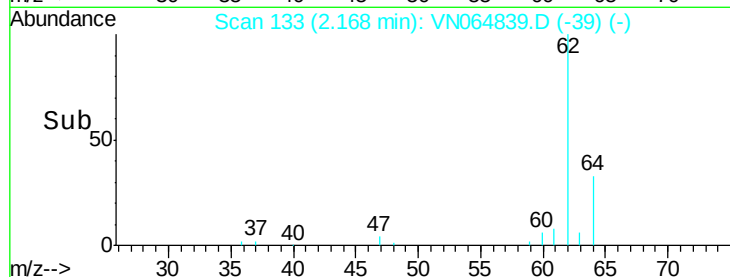
5000

0

2.17

2.15 2.20

Time-->



#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.059 ug/l

RT: 3.72 min Scan# 617

Delta R.T. 0.01 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

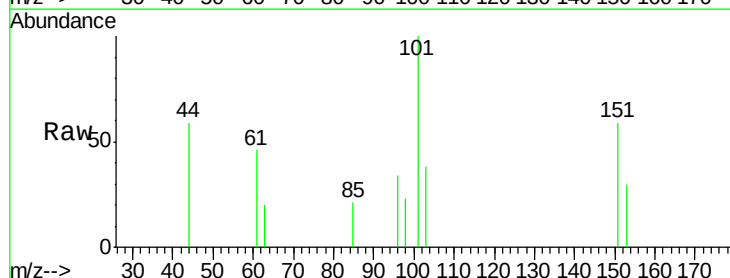
Tgt Ion: 101 Resp: 1740

Ion Ratio Lower Upper

101 100

85 0.0 34.4 51.6#

151 0.0 64.0 96.0#



Abundance Ion 100.90 (100.60 to 101.60): VN064839.D (-520) (-)

Ion 84.90 (84.60 to 85.60): VN064839.D (-520) (-)

Ion 150.80 (150.50 to 151.50): VN064839.D (-520) (-)

1000

800

600

400

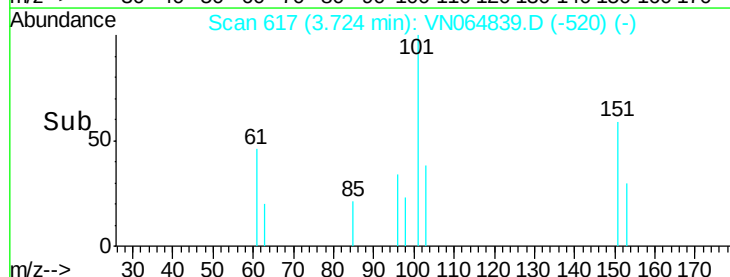
200

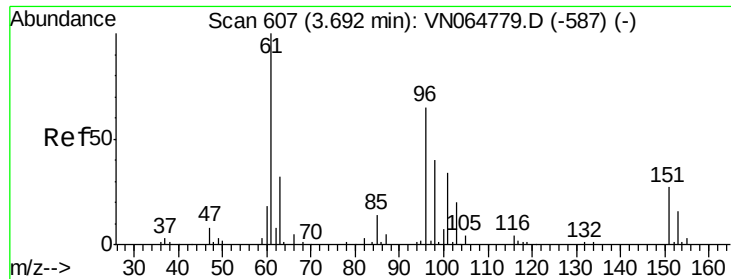
0

3.72

3.65 3.75

Time-->

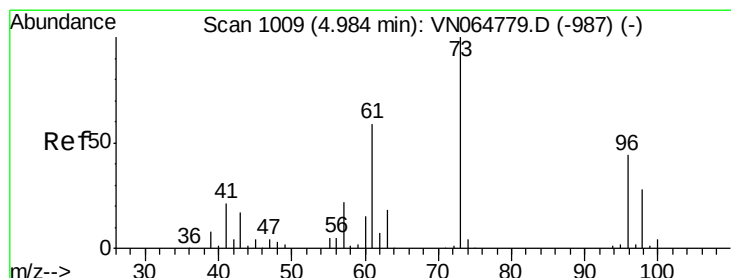
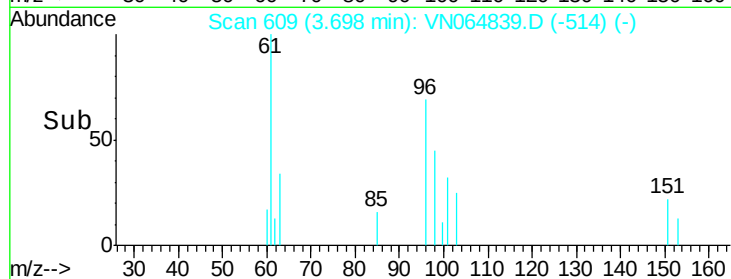
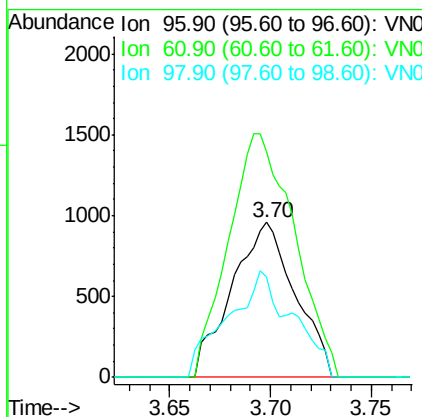
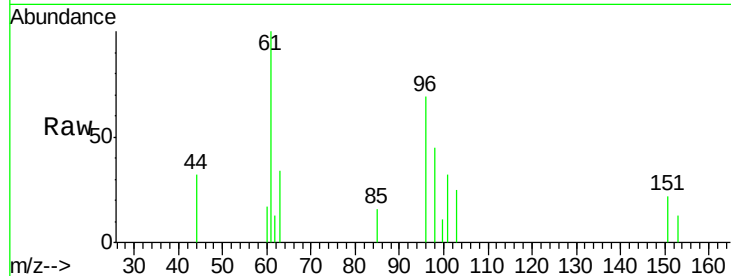




#12
 1,1-Dichloroethene
 Concen: 1.282 ug/l
 RT: 3.70 min Scan# 609
 Delta R.T. 0.01 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

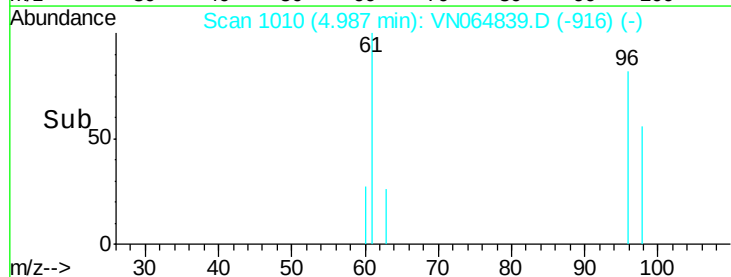
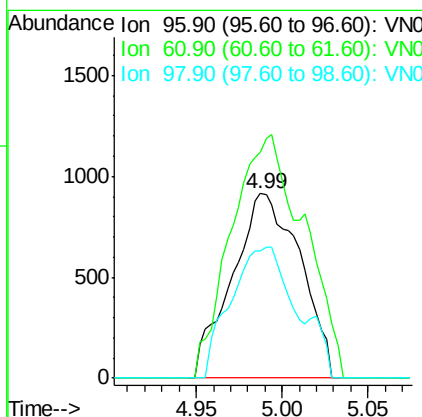
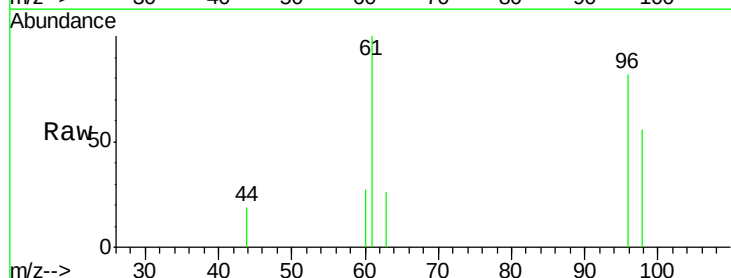
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20201118

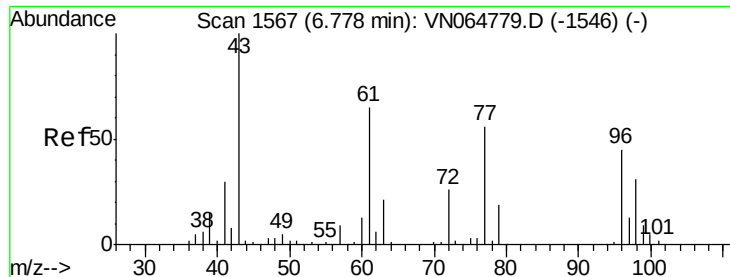
Tot Ion: 96 Resp: 2097
 Ion Ratio Lower Upper
 96 100
 61 145.3 123.4 185.2
 98 65.0 49.8 74.8



#21
 trans-1,2-Dichloroethene
 Concen: 1.388 ug/l
 RT: 4.99 min Scan# 1010
 Delta R.T. 0.00 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

Tgt Ion: 96 Resp: 2521
 Ion Ratio Lower Upper
 96 100
 61 122.3 108.4 162.6
 98 68.8 51.3 76.9





#27

cis-1,2-Dichloroethene

Concen: 166.395 ug/l

RT: 6.78 min Scan# 1568

Delta R.T. 0.00 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20201118

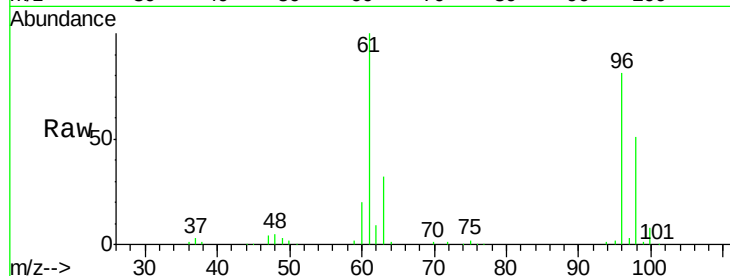
Tot Ion: 96 Resp: 340180

Ion Ratio Lower Upper

96 100

61 123.3 0.0 285.8

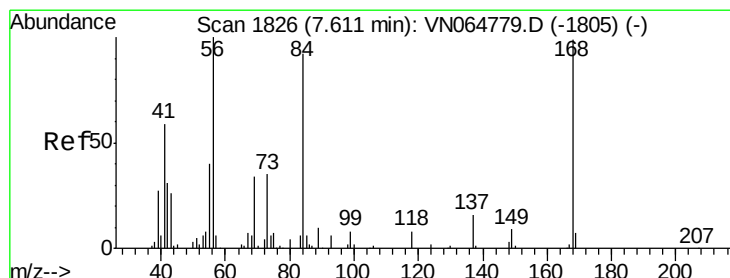
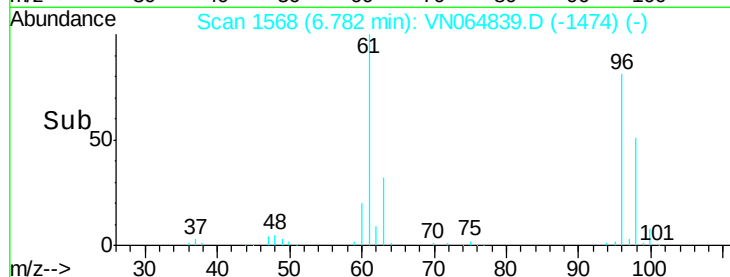
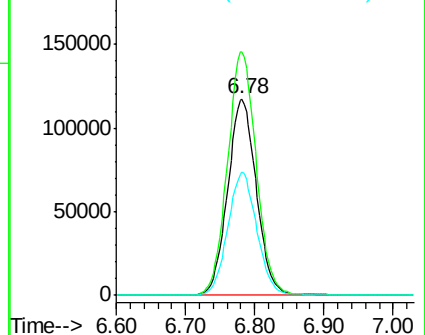
98 63.0 0.0 130.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#31

Cyclohexane

Concen: 1.027 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

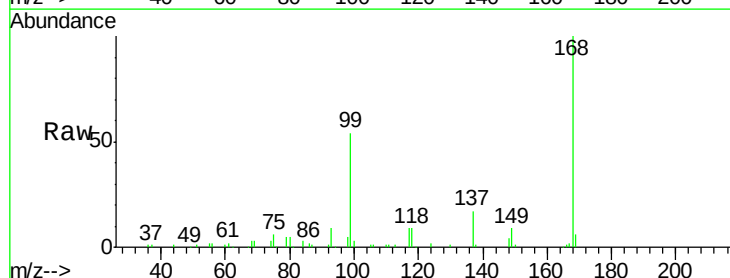
Tgt Ion: 56 Resp: 2807

Ion Ratio Lower Upper

56 100

69 183.5 27.5 41.3#

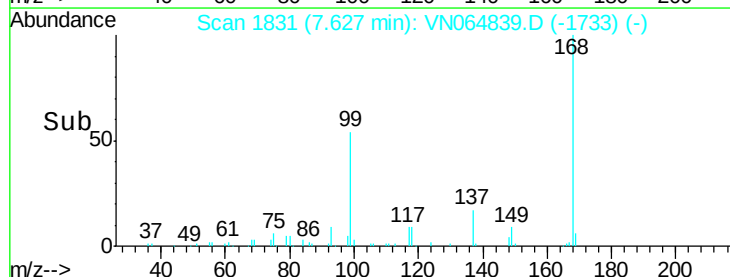
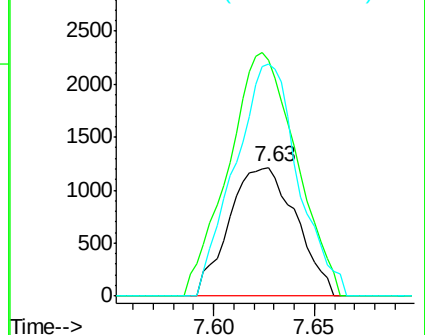
84 180.1 73.9 110.9#

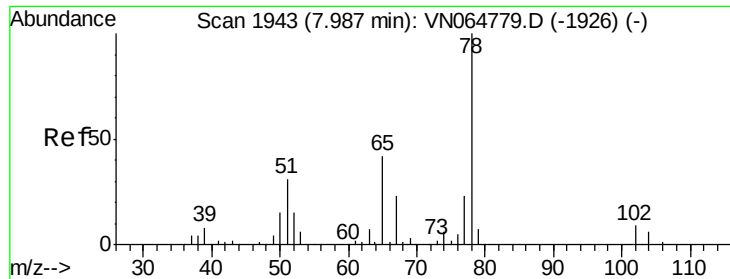


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

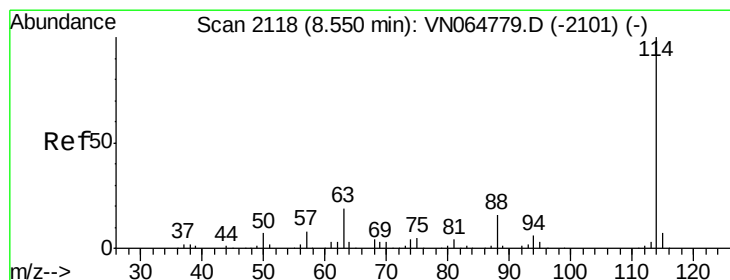
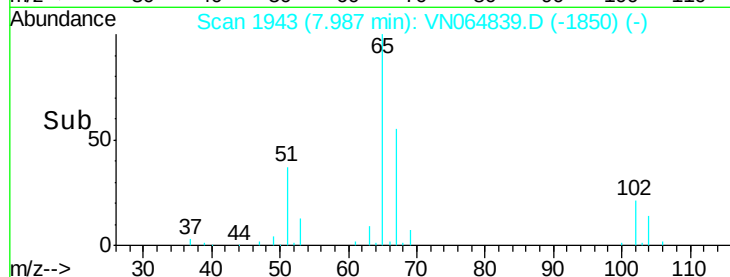
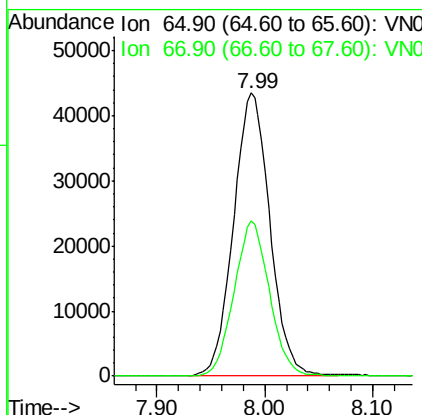
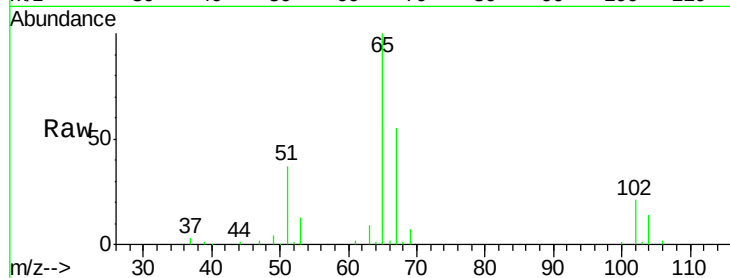




#33
 1,2-Dichloroethane-d4
 Concen: 52.037 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

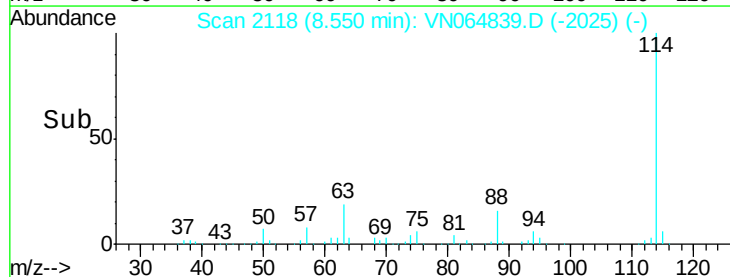
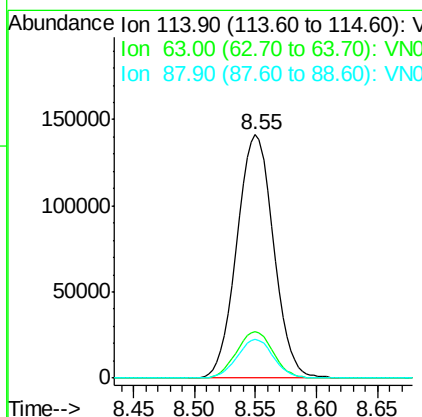
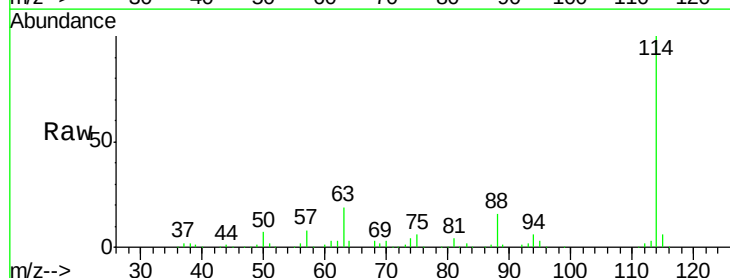
Instrument :
 MSVOA_N
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 DUP01-20201118

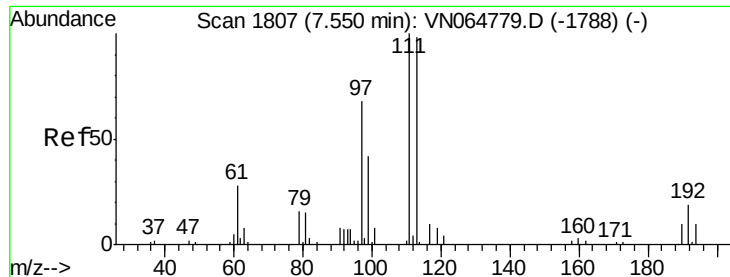
Tot Ion: 65 Resp: 102069
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 108.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

Tgt Ion: 114 Resp: 294199
 Ion Ratio Lower Upper
 114 100
 63 19.0 0.0 38.6
 88 15.9 0.0 32.6

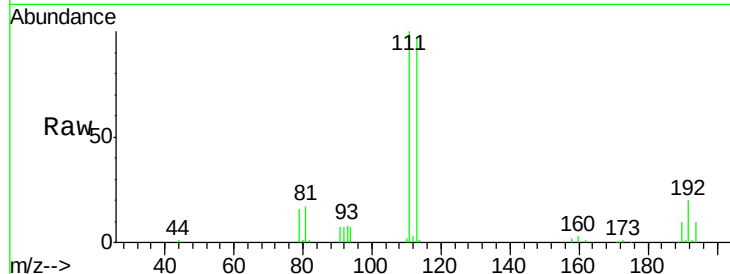




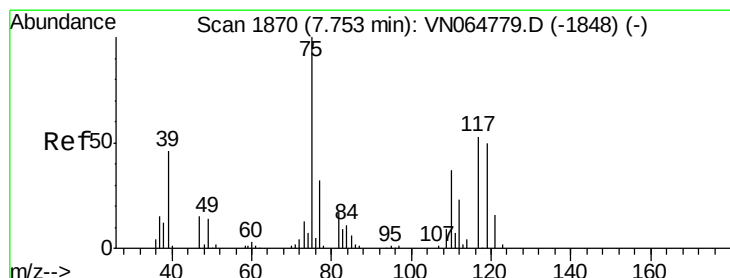
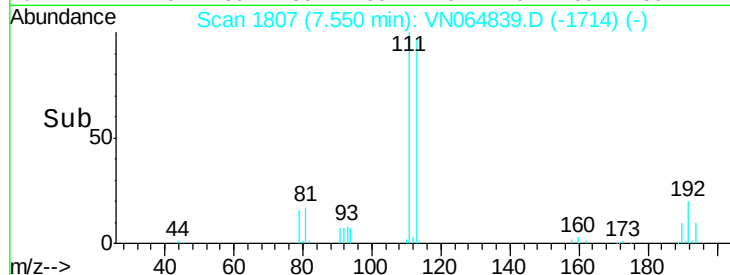
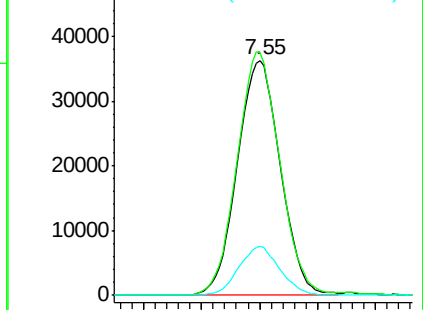
#35
 Dibromofluoromethane
 Concen: 53.212 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20201118

Tot Ion:113 Resp: 93674
 Ion Ratio Lower Upper
 113 100
 111 102.9 81.6 122.4
 192 19.8 16.2 24.2

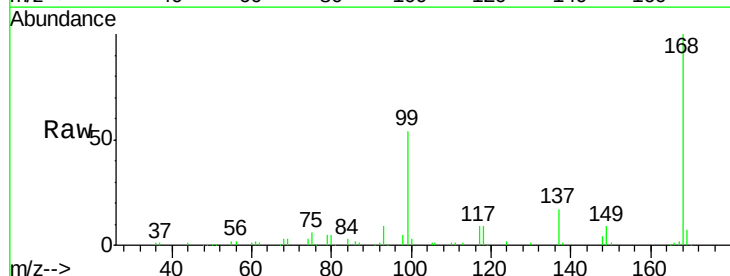


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

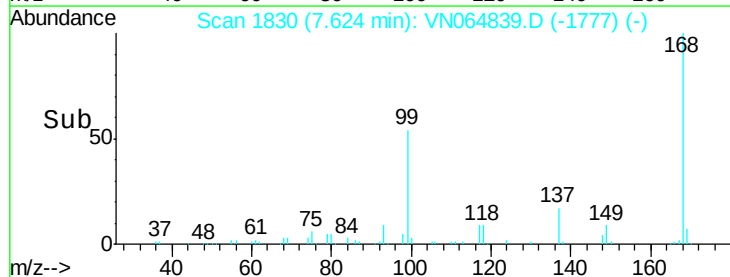
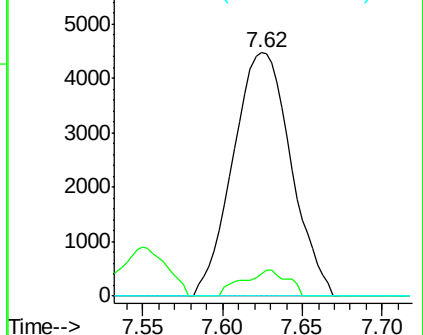


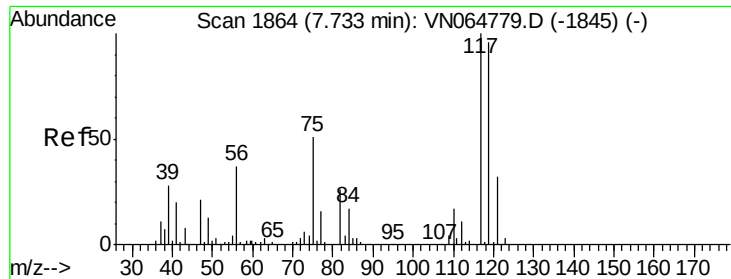
#36
 1,1-Dichloropropene
 Concen: 4.066 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

Tgt Ion: 75 Resp: 11089
 Ion Ratio Lower Upper
 75 100
 110 8.3 17.8 53.3#
 77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 5.494 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20201118

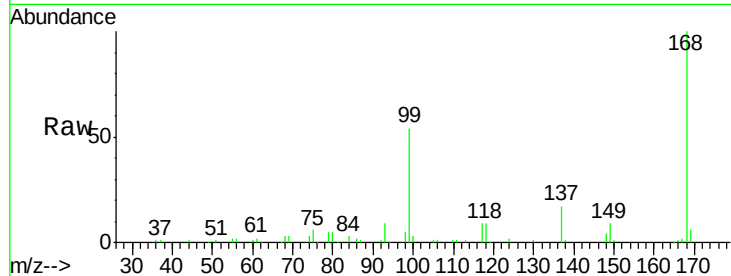
Tot Ion:117 Resp: 15588

Ion Ratio Lower Upper

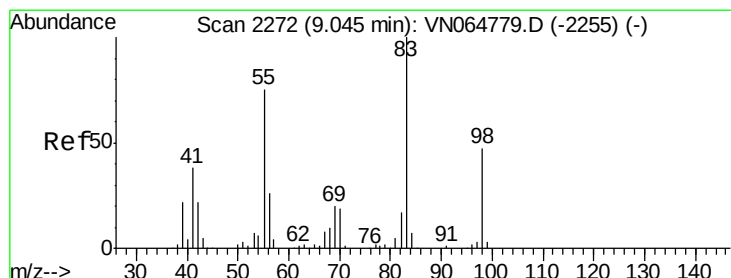
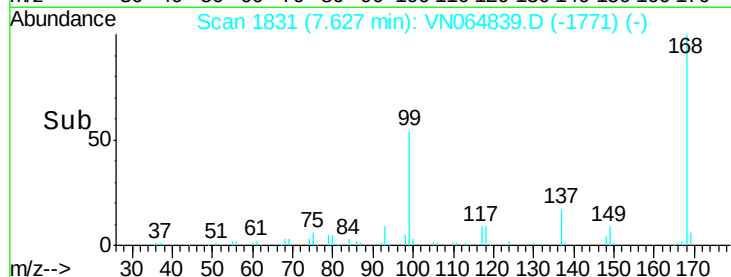
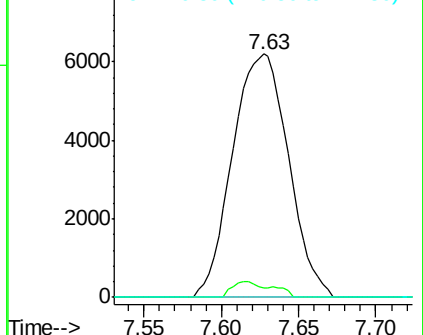
117 100

119 3.8 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



#39

Methylcyclohexane

Concen: 1.744 ug/l

RT: 8.80 min Scan# 2195

Delta R.T. -0.25 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

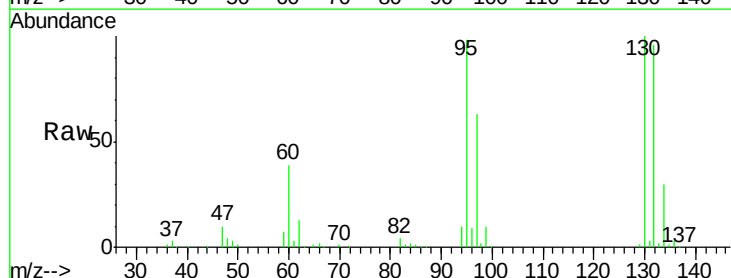
Tgt Ion: 83 Resp: 5121

Ion Ratio Lower Upper

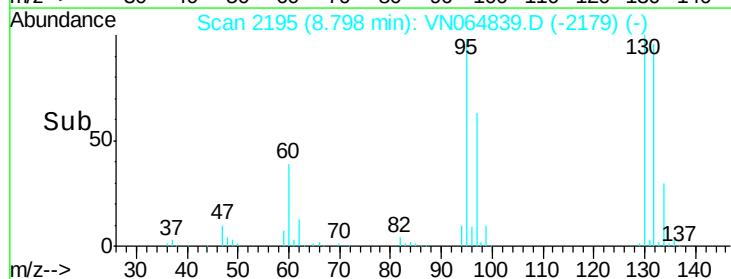
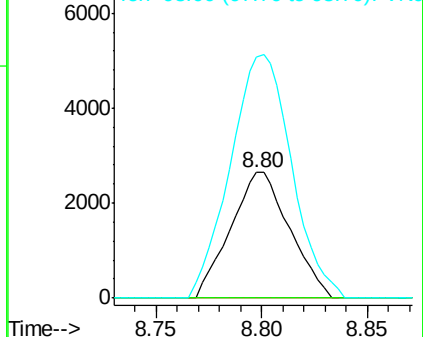
83 100

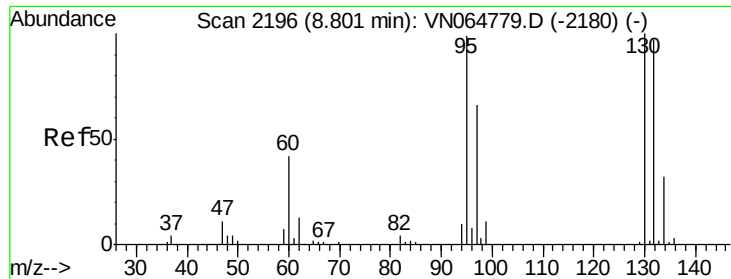
55 0.0 60.2 90.2#

98 192.1 37.4 56.2#



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 55.00 (54.70 to 55.70): V
Ion 98.00 (97.70 to 98.70): V





#44

Trichloroethene

Concen: 172.867 ug/l

RT: 8.80 min Scan# 2196

Delta R.T. 0.00 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

Instrument :

MSVOA_N

ClientSampleId :

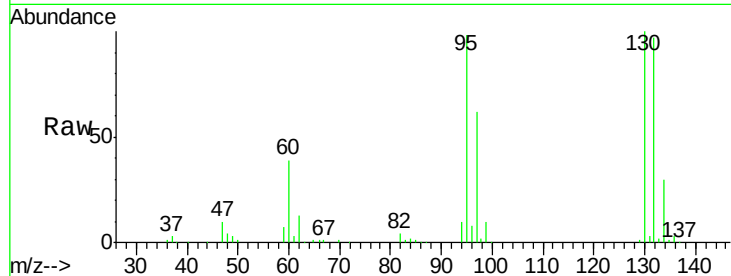
DUP01-20201118

Tot Ion:130 Resp: 426211

Ion Ratio Lower Upper

130 100

95 98.4 0.0 197.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.80

200000

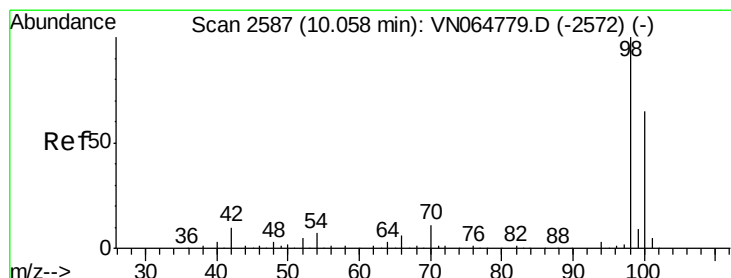
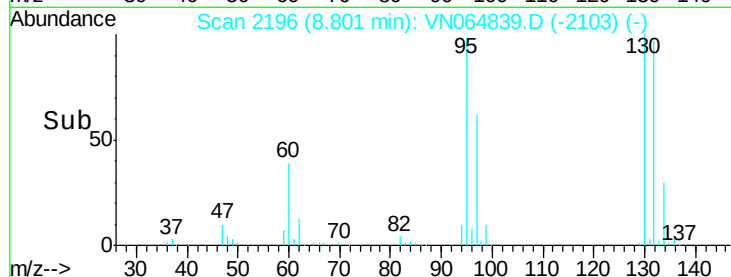
150000

100000

50000

0

Time-->



#50

Toluene-d8

Concen: 51.545 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064839.D

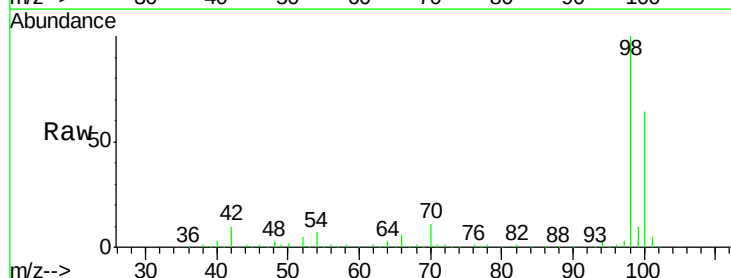
Acq: 25 Nov 2020 3:30

Tgt Ion: 98 Resp: 370753

Ion Ratio Lower Upper

98 100

100 64.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.06

200000

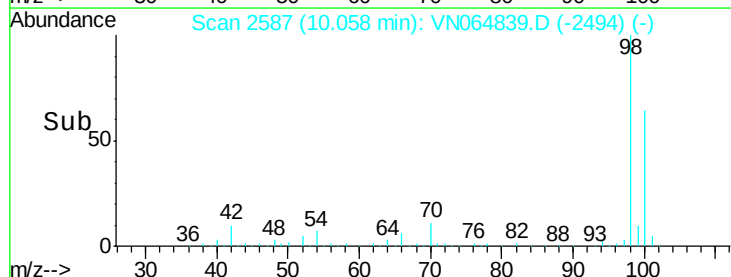
150000

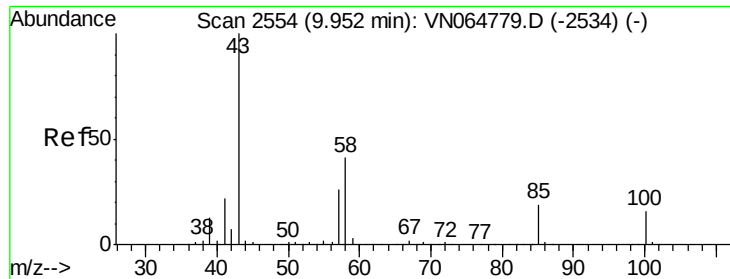
100000

50000

0

Time-->

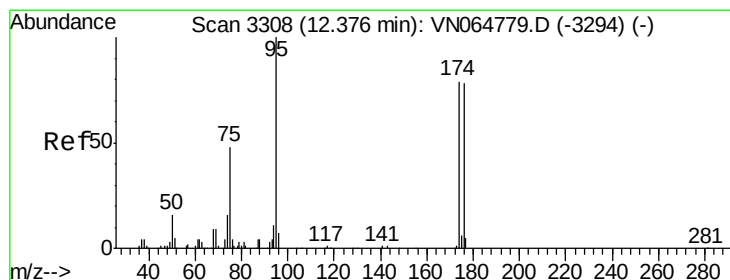
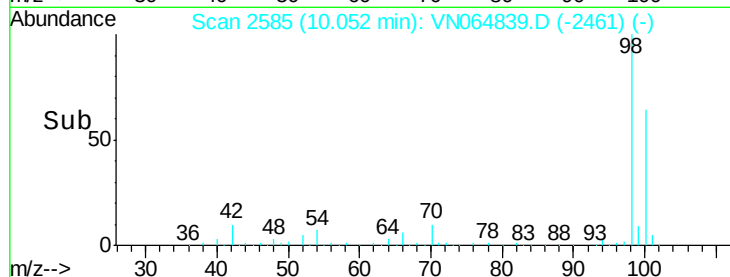
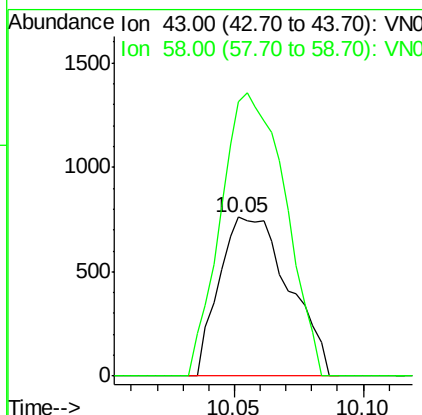
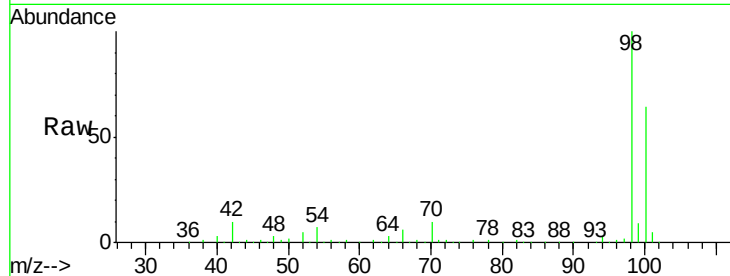




#51
 4-Methyl-2-Pentanone
 Concen: 0.566 ug/l
 RT: 10.05 min Scan# 2585
 Delta R.T. 0.10 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

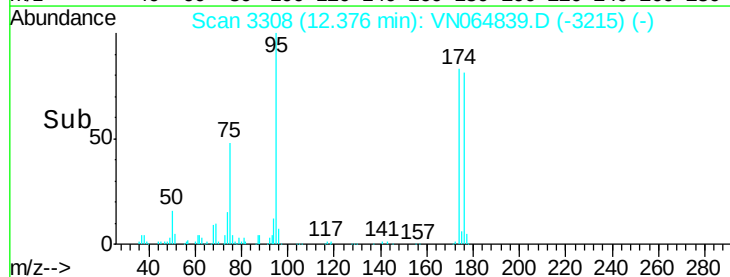
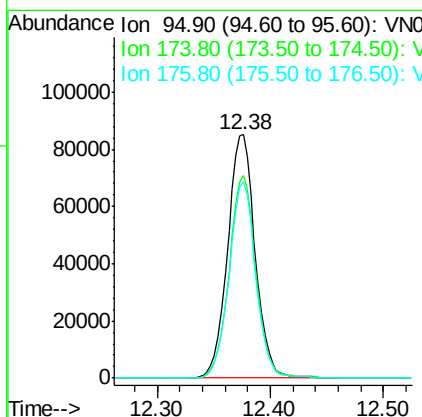
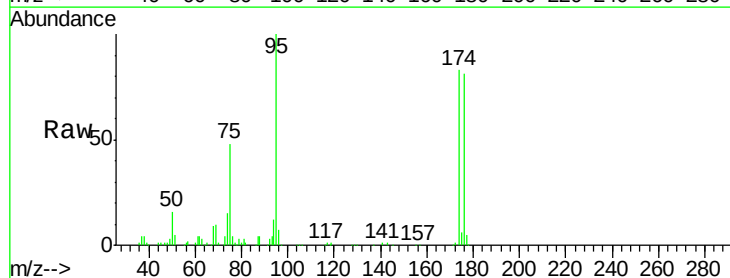
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20201118

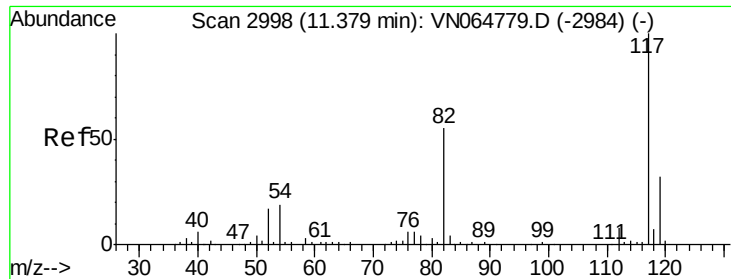
Tot Ion: 43 Resp: 1435
 Ion Ratio Lower Upper
 43 100
 58 164.9 32.4 48.6#



#62
 4-Bromofluorobenzene
 Concen: 55.818 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.00 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

Tgt Ion: 95 Resp: 143685
 Ion Ratio Lower Upper
 95 100
 174 81.3 0.0 160.4
 176 78.1 0.0 158.4

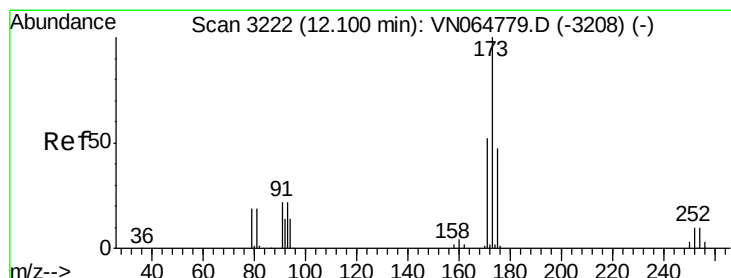
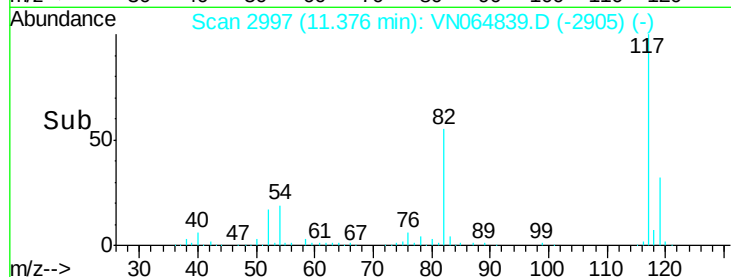
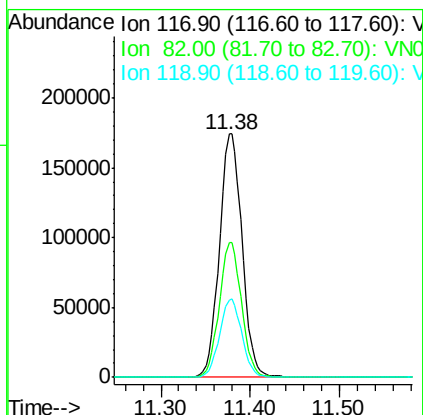
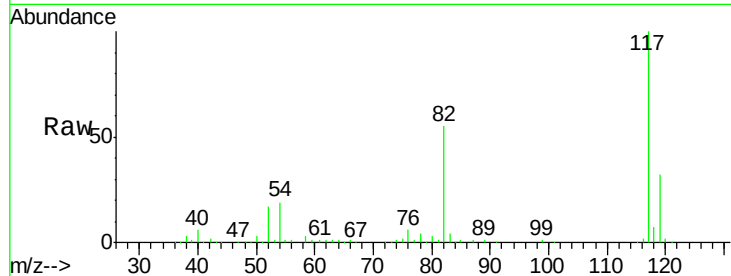




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN064839.D
Acq: 25 Nov 2020 3:30

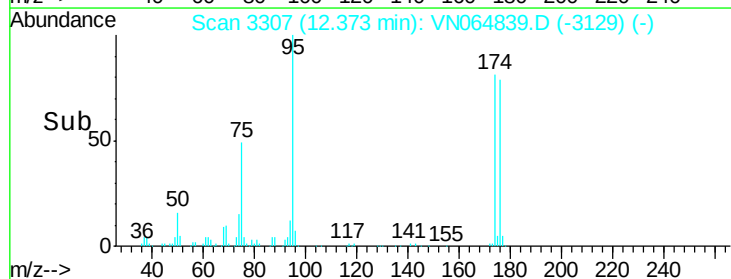
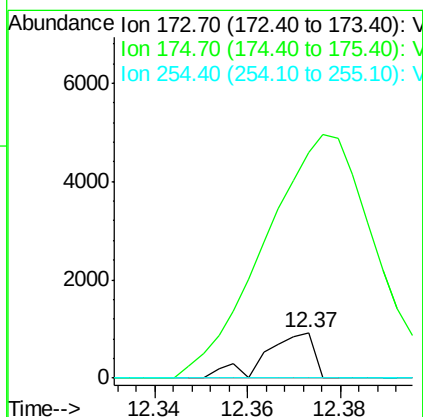
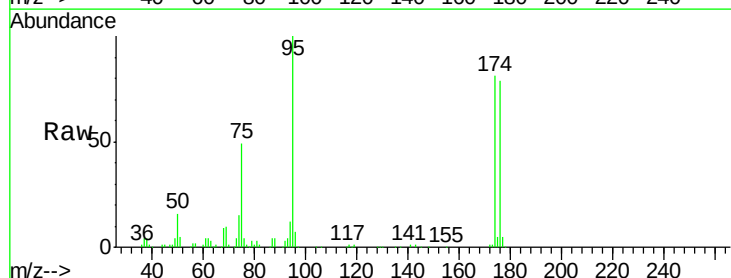
Instrument :
MSVOA_N
ClientSampleId :
DUP01-20201118

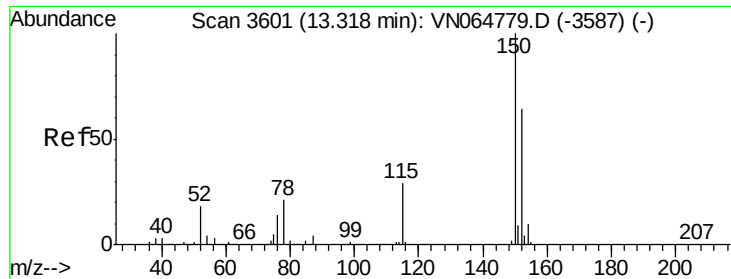
Tot Ion:117 Resp: 305926
Ion Ratio Lower Upper
117 100
82 55.3 44.2 66.2
119 32.0 25.8 38.6



#71
Bromoform
Concen: 0.347 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN064839.D
Acq: 25 Nov 2020 3:30

Tgt Ion:173 Resp: 669
Ion Ratio Lower Upper
173 100
175 1065.6 24.3 72.8#
254 0.0 0.0 0.0

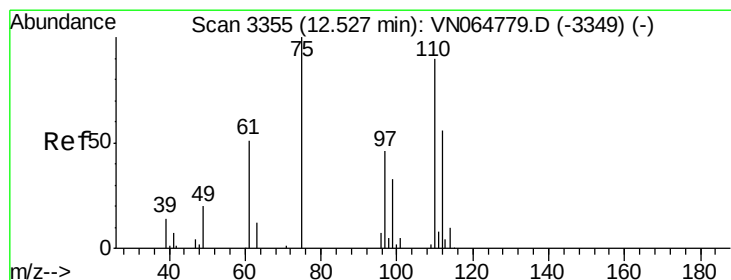
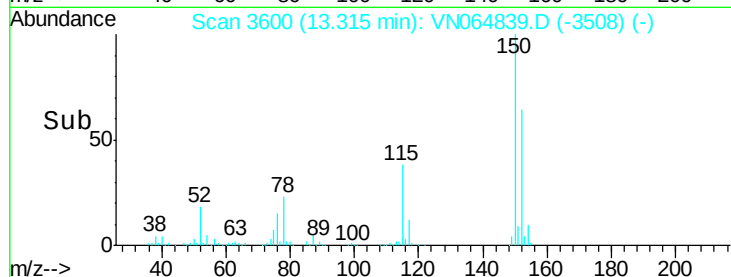
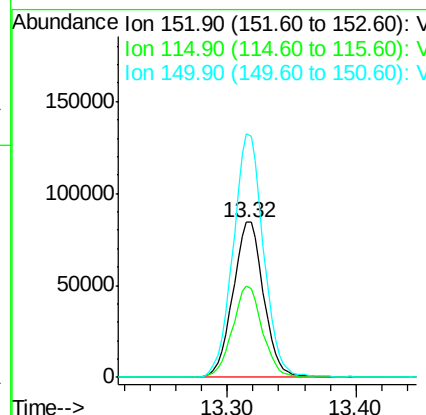
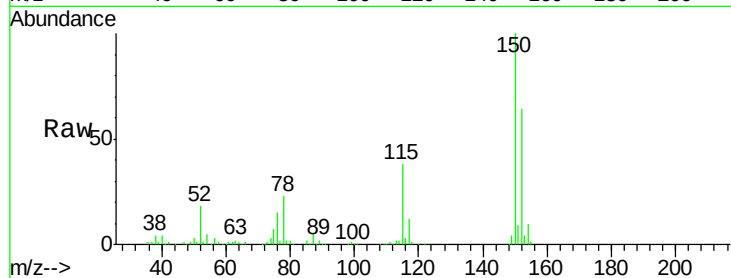




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.32 min Scan# 3600
 Delta R.T. -0.00 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

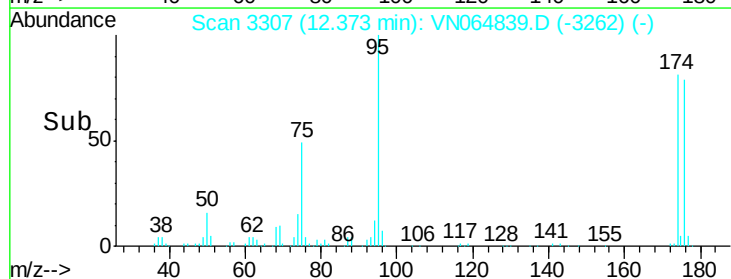
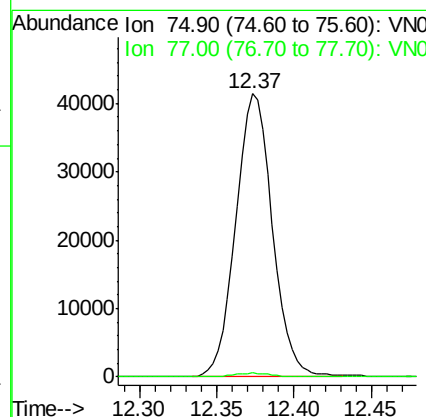
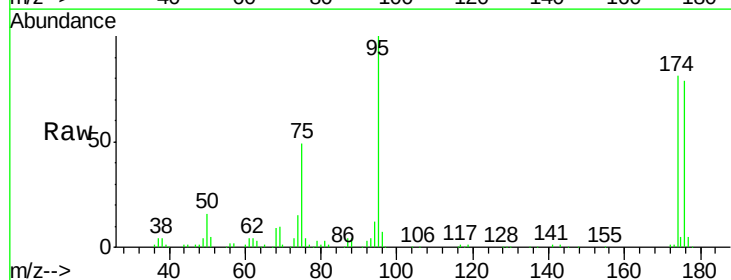
Instrument :
 MSVOA_N
 ClientSampleId :
 DUP01-20201118

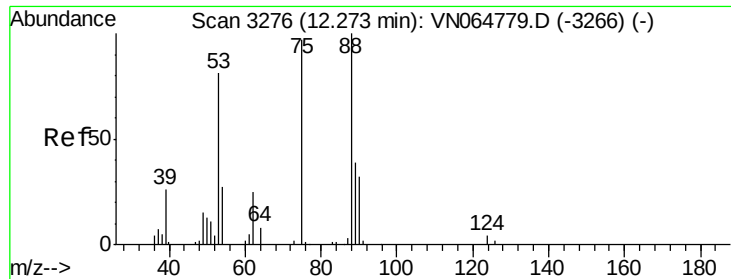
Tot Ion:152 Resp: 139207
 Ion Ratio Lower Upper
 152 100
 115 57.5 29.7 89.1
 150 155.5 0.0 350.6



#76
 1,2,3-Trichloropropane
 Concen: 22.683 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN064839.D
 Acq: 25 Nov 2020 3:30

Tgt Ion: 75 Resp: 68001
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 62.168 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064839.D

Acq: 25 Nov 2020 3:30

Instrument :

MSVOA_N

ClientSampleId :

DUP01-20201118

Tot Ion: 75 Resp: 68001

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

