

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071319\
 Data File : VN056694.D
 Acq On : 12 Jul 2019 17:50
 Operator : JC/SP
 Sample : K3779-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 13 00:11:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 12 23:58:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	49985	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	262494	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	212760	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	101060	29.85	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.50%
60) 4-Bromofluorobenzene	12.40	95	79963	24.56	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	81.87%
63) Toluene-d8	10.09	98	306346	31.51	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.03%

Target Compounds

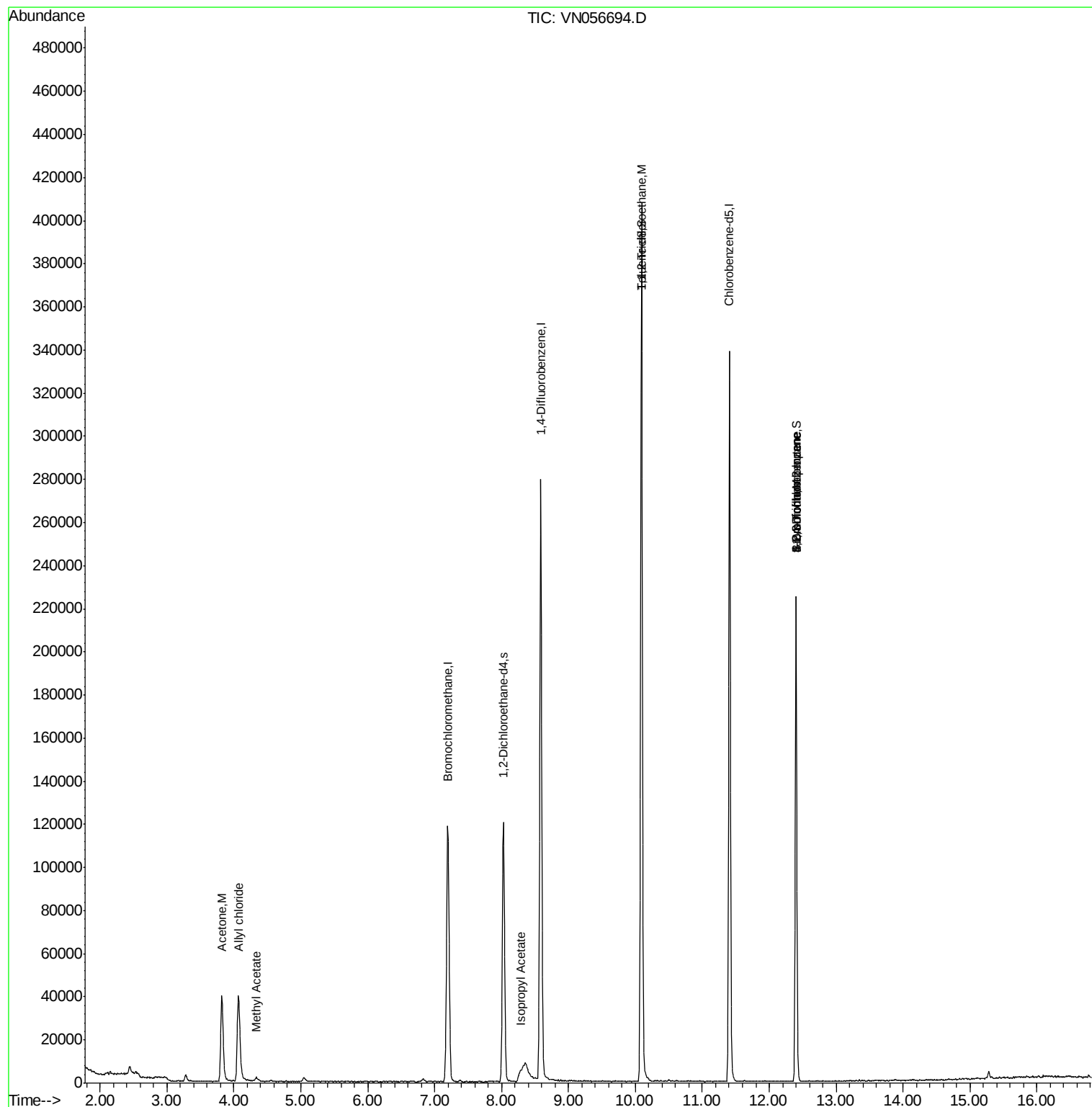
					Ovalue	
12) Methyl Acetate	4.34	43	2291	0.581	ug/l #	79
15) Acetone	3.82	58	22658	37.759	ug/l	96
17) Allyl chloride	4.07	41	6604	1.281	ug/l #	67
44) Isopropyl Acetate	8.27	43	3202	0.470	ug/l #	47
50) 1,1,2-Trichloroethane	10.10	97	9190	2.878	ug/l #	1
56) Bromoform	12.40	173	679	0.284	ug/l #	1
72) 1,2,3-Trichloropropane	12.40	75	36995	10.232	ug/l	1
77) t-1,4-Dichloro-2-butene	12.40	75	36995	30.782	ug/l #	11

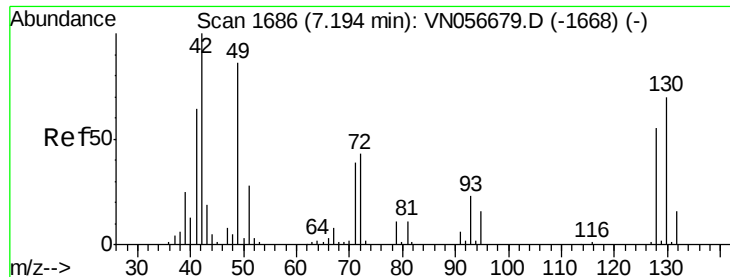
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N071319W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 12 23:58:13 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

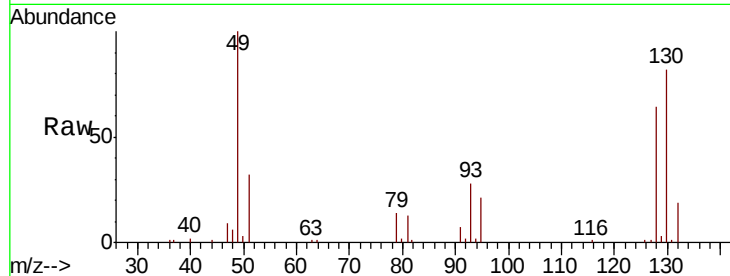
Delta R.T. 0.00 min

Lab File: VN056694.D

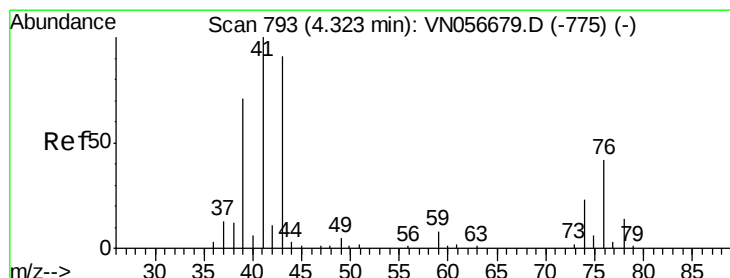
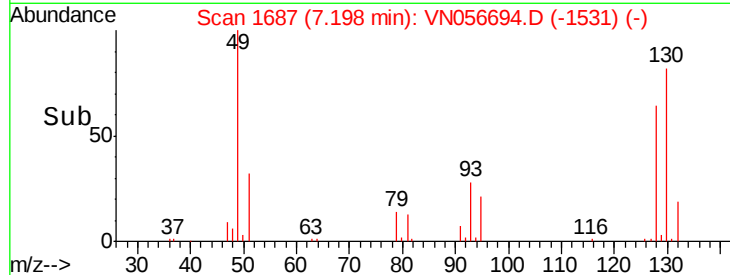
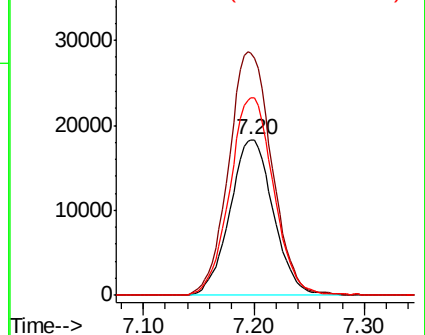
Acq: 12 Jul 2019 17:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 49985
Ion Ratio Lower Upper
128 100
49 155.8 0.0 390.5
130 128.1 0.0 316.5



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VN
Ion 130.00 (129.70 to 130.70): V



#12

Methyl Acetate

Concen: 0.581 ug/l

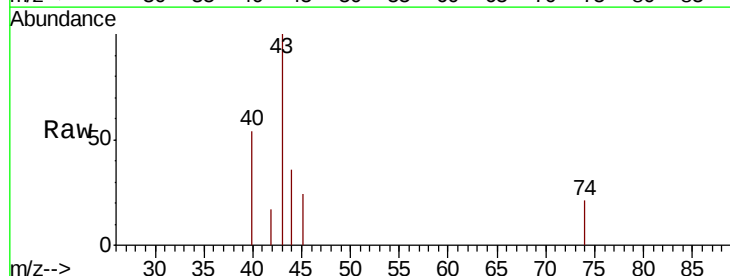
RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

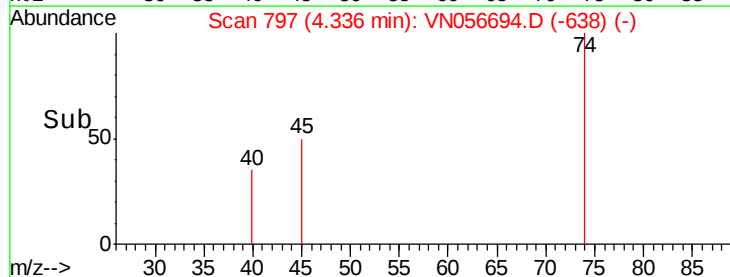
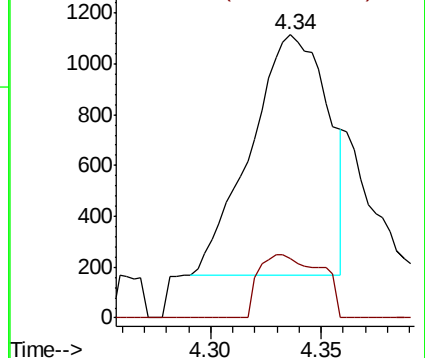
Lab File: VN056694.D

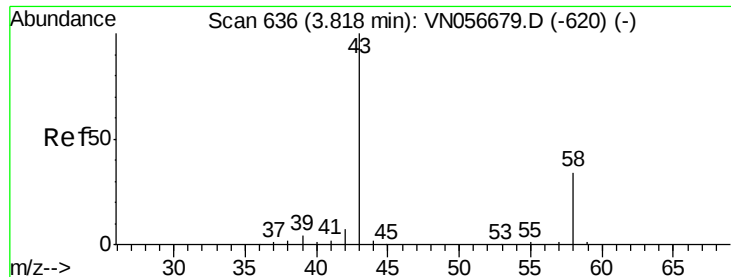
Acq: 12 Jul 2019 17:50

Tgt Ion: 43 Resp: 2291
Ion Ratio Lower Upper
43 100
74 35.9 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 74.00 (73.70 to 74.70): VN





#15

Acetone

Concen: 37.759 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

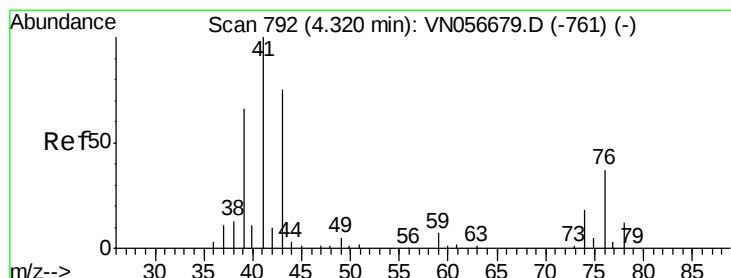
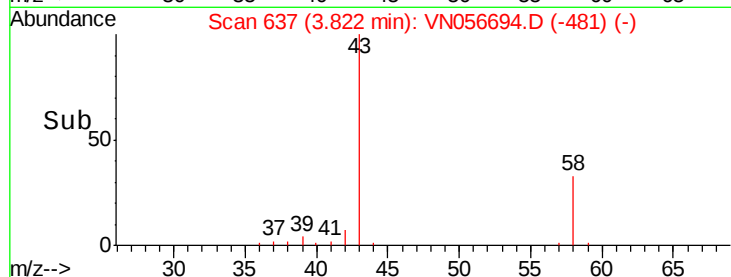
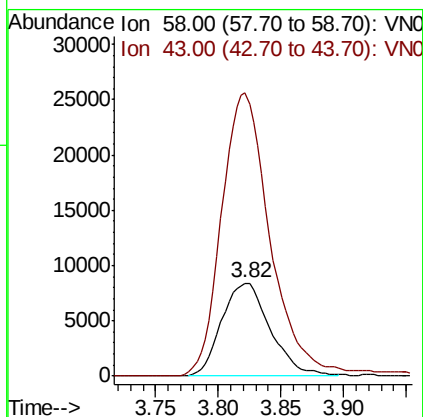
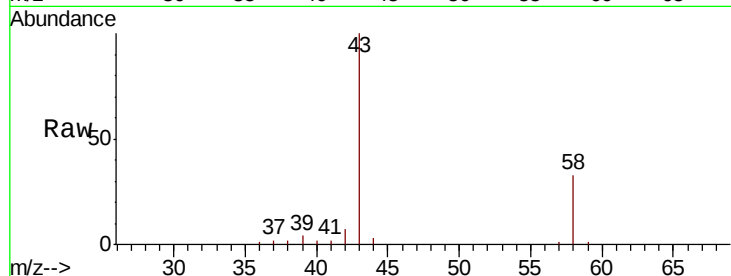
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 58 Resp: 22658

Ion Ratio Lower Upper

58 100

43 301.0 233.9 350.9



#17

Allyl chloride

Concen: 1.281 ug/l

RT: 4.07 min Scan# 714

Delta R.T. -0.25 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

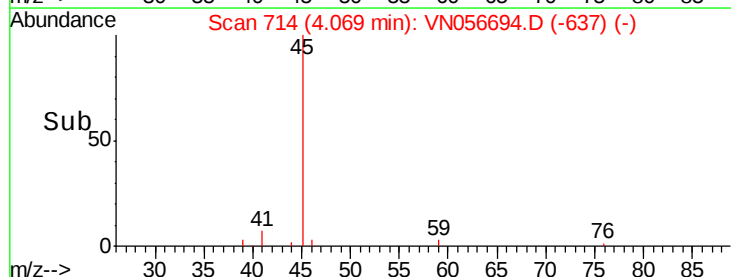
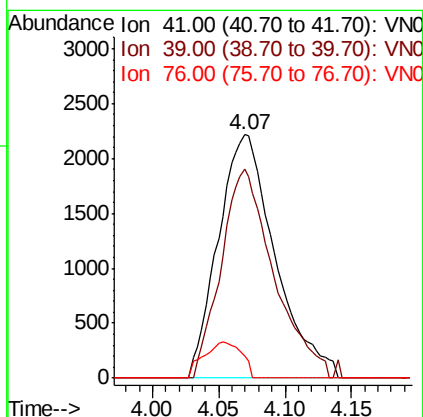
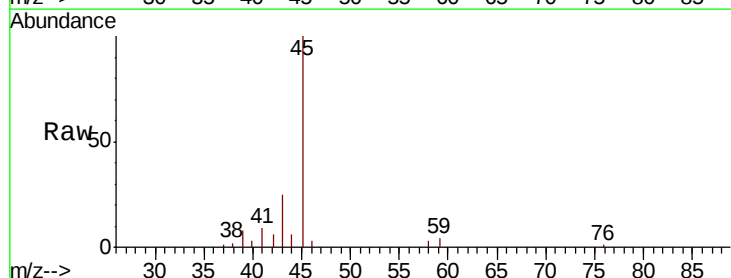
Tgt Ion: 41 Resp: 6604

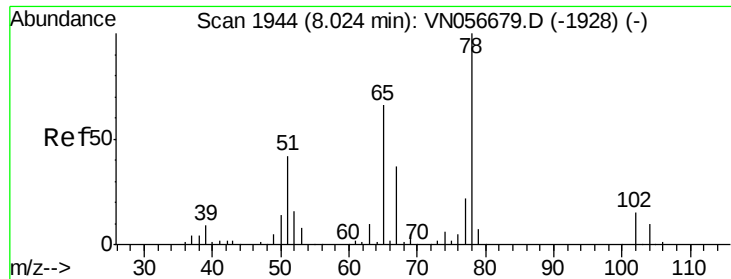
Ion Ratio Lower Upper

41 100

39 85.8 32.8 98.4

76 9.1 18.5 55.5#





#27

1,2-Dichloroethane-d4

Concen: 29.848 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

Instrument :

MSVOA_N

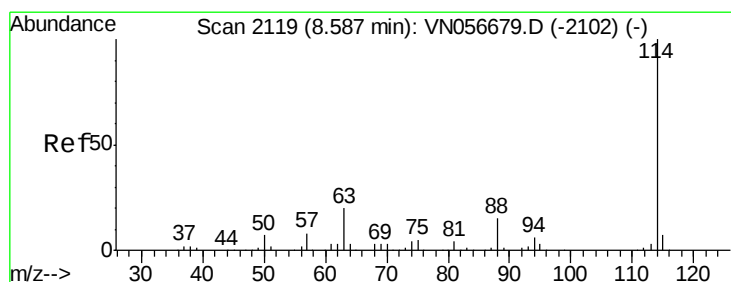
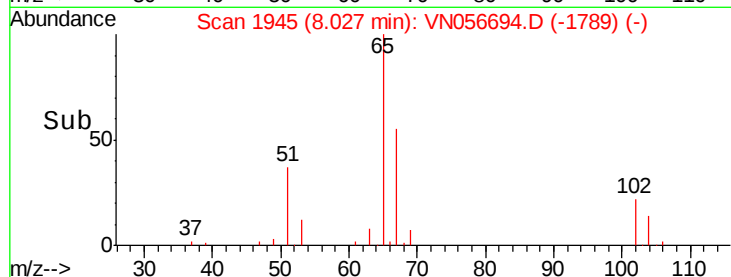
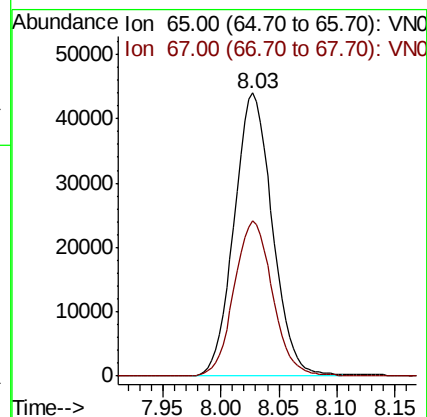
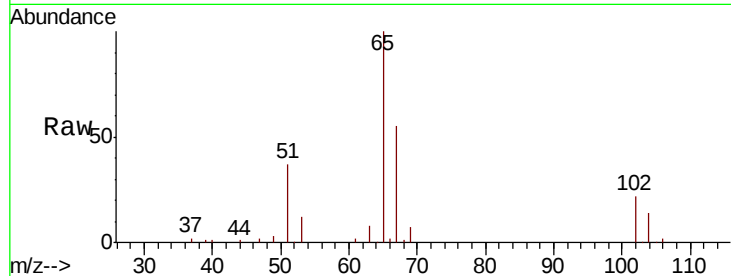
ClientSampleId :

Tot Ion: 65 Resp: 101060

Ion Ratio Lower Upper

65 100

67 55.0 43.4 65.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

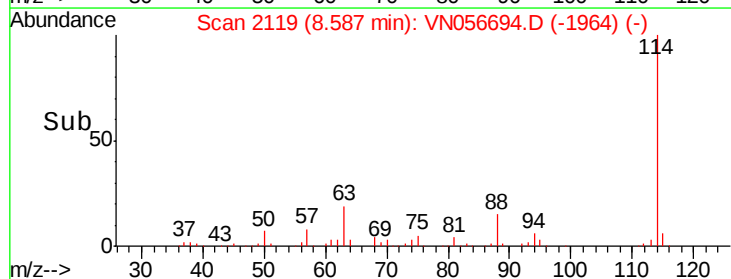
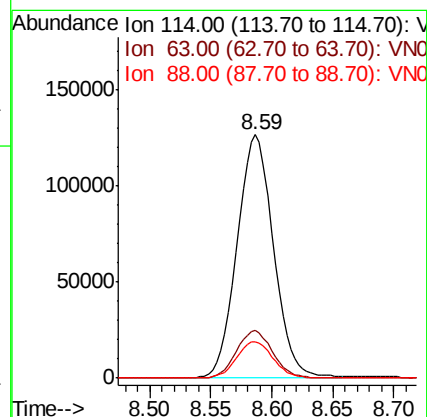
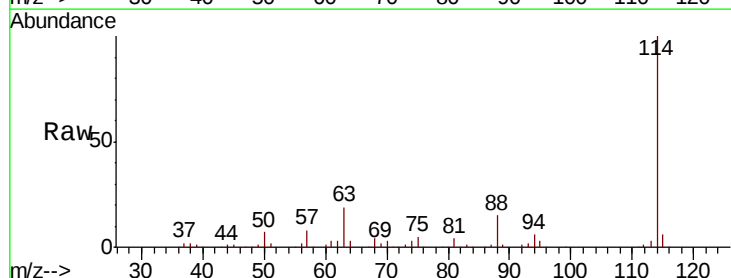
Tgt Ion: 114 Resp: 262494

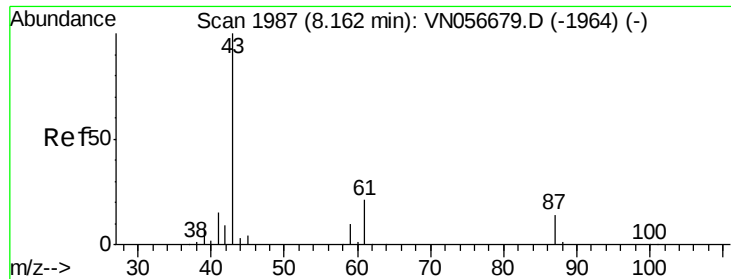
Ion Ratio Lower Upper

114 100

63 19.5 16.2 24.2

88 15.0 12.3 18.5





#44

Isopropyl Acetate

Concen: 0.470 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

Instrument :

MSVOA_N

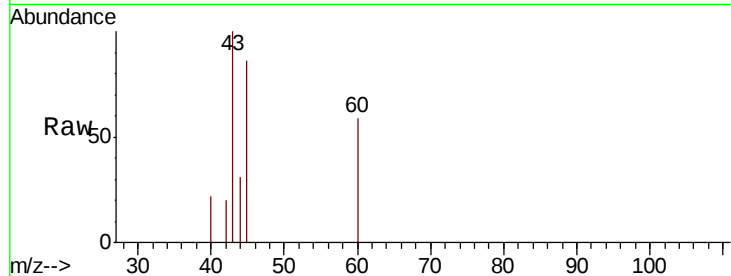
ClientSampled :

Tot Ion: 43 Resp: 3202

Ion Ratio Lower Upper

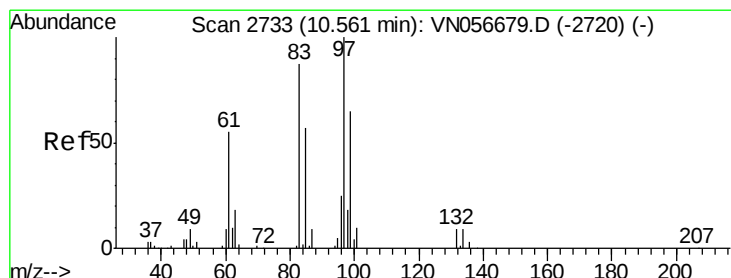
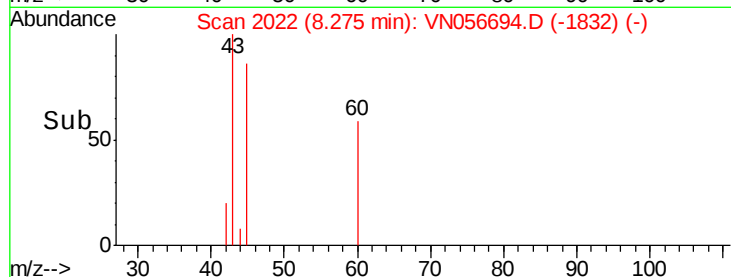
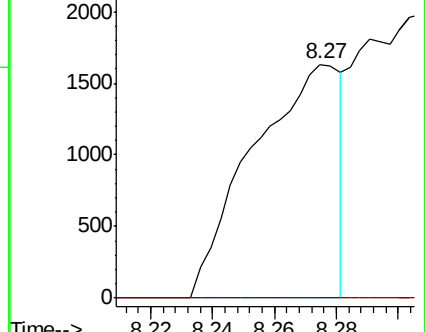
43 100

61 0.0 22.6 33.8#



Abundance Ion 43.00 (42.70 to 43.70): VN056679.D (-1964) (-)

Ion 61.00 (60.70 to 61.70): VN056679.D (-1964) (-)



#50

1,1,2-Trichloroethane

Concen: 2.878 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.46 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

Tgt Ion: 97 Resp: 9190

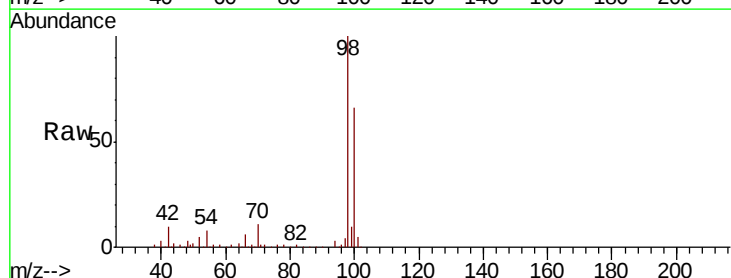
Ion Ratio Lower Upper

97 100

83 0.0 69.2 103.8#

85 0.0 45.3 67.9#

99 268.9 51.6 77.4#

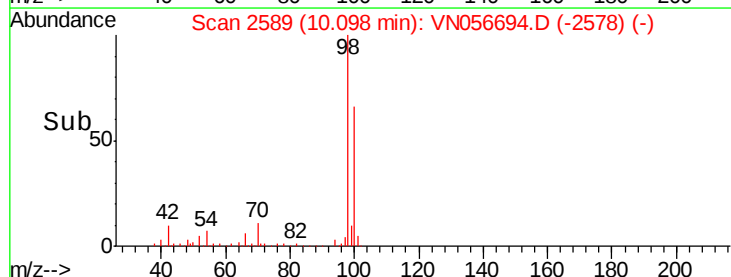
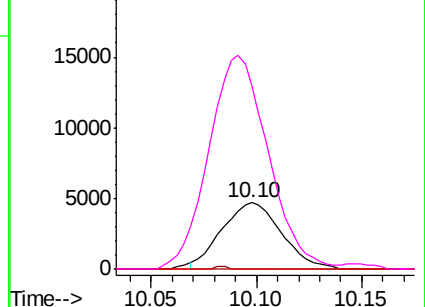


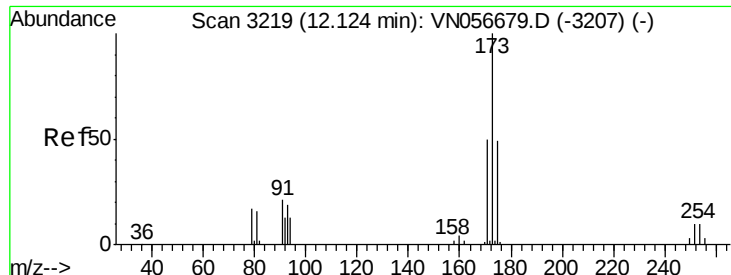
Abundance Ion 97.00 (96.70 to 97.70): VN056679.D (-2720) (-)

Ion 82.95 (82.65 to 83.65): VN056679.D (-2720) (-)

Ion 84.95 (84.65 to 85.65): VN056679.D (-2720) (-)

Ion 98.95 (98.65 to 99.65): VN056679.D (-2720) (-)





#56

Bromoform

Concen: 0.284 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

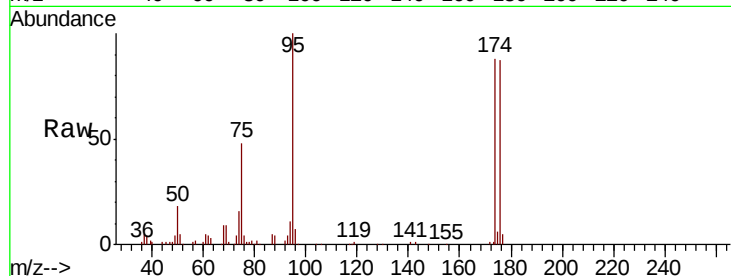
Tot Ion:173 Resp: 679

Ion Ratio Lower Upper

173 100

175 746.4 39.7 59.5#

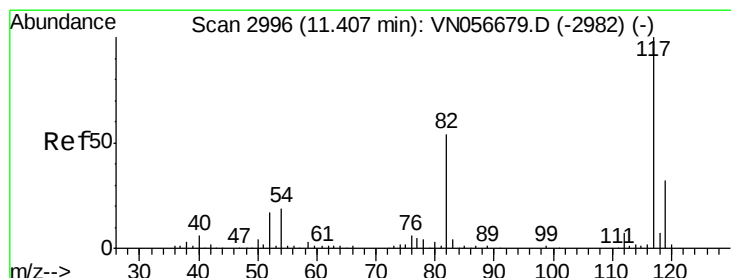
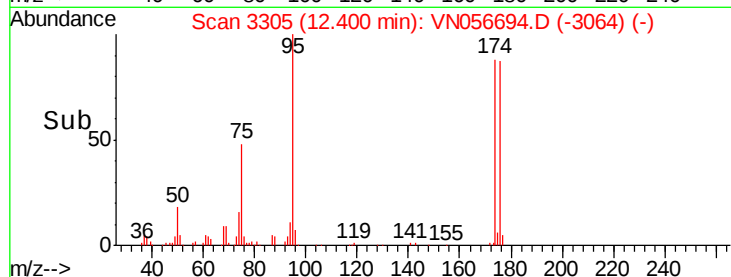
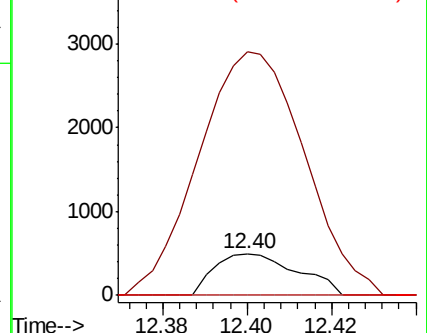
254 0.0 7.8 11.8#



Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

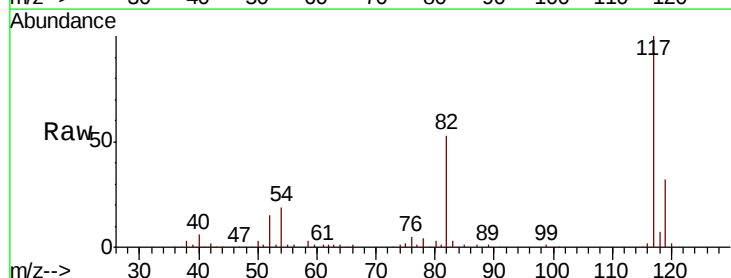
Tgt Ion:117 Resp: 212760

Ion Ratio Lower Upper

117 100

82 53.9 43.0 64.4

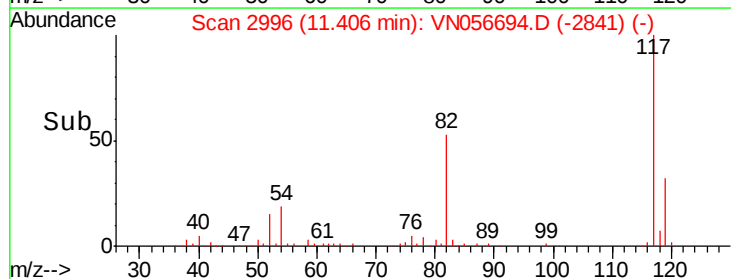
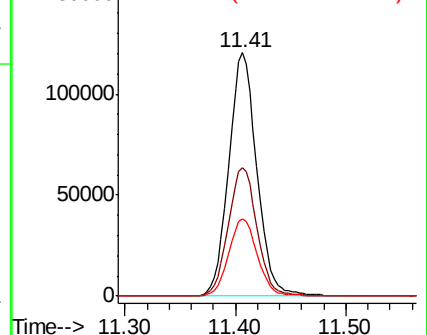
119 32.4 26.0 39.0

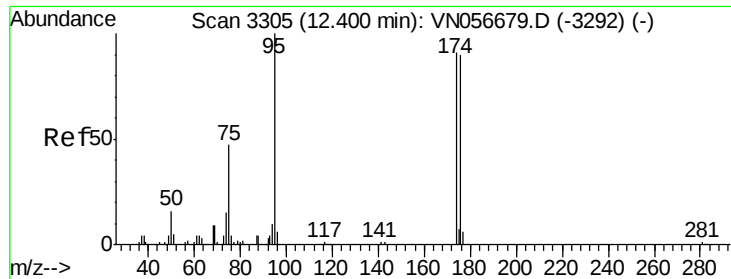


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V





#60

4-Bromofluorobenzene

Concen: 24.558 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

Instrument :

MSVOA_N

ClientSampleId :

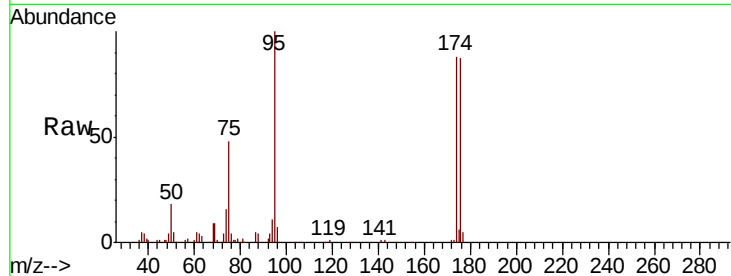
Tot Ion: 95 Resp: 79963

Ion Ratio Lower Upper

95 100

174 89.7 72.6 108.8

176 86.0 71.0 106.6

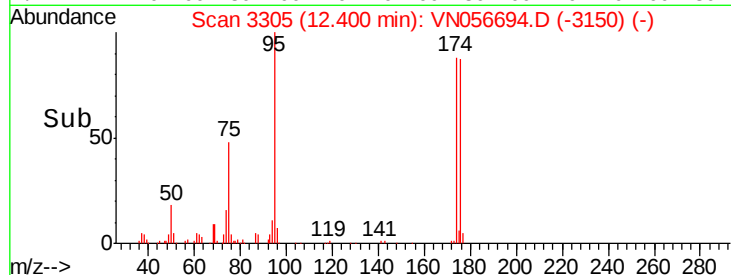


Abundance Ion 95.00 (94.70 to 95.70): VN056679.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN056679.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN056679.D (-3292) (-)

Time-->

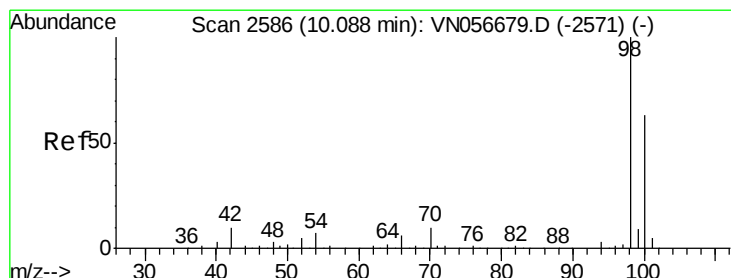


Abundance Ion 95.00 (94.70 to 95.70): VN056694.D (-3150) (-)

Ion 174.00 (173.70 to 174.70): VN056694.D (-3150) (-)

Ion 176.00 (175.70 to 176.70): VN056694.D (-3150) (-)

Time-->



#63

Toluene-d8

Concen: 31.513 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056694.D

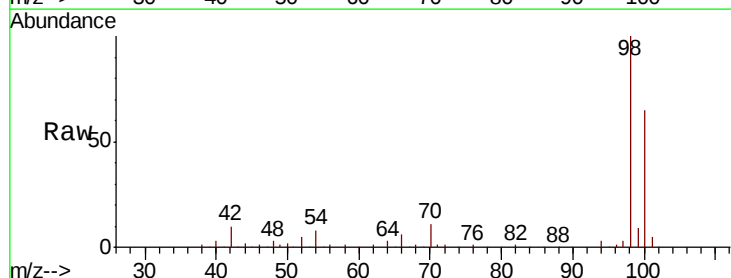
Acq: 12 Jul 2019 17:50

Tgt Ion: 98 Resp: 306346

Ion Ratio Lower Upper

98 100

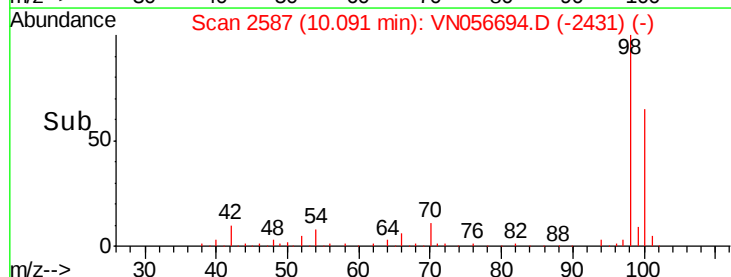
100 64.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN056679.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN056679.D (-2571) (-)

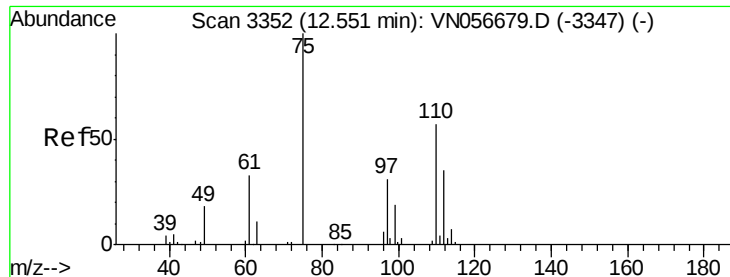
Time-->



Abundance Ion 98.00 (97.70 to 98.70): VN056694.D (-2431) (-)

Ion 100.00 (99.70 to 100.70): VN056694.D (-2431) (-)

Time-->



#72

1,2,3-Trichloropropane

Concen: 10.232 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

Instrument :

MSVOA_N

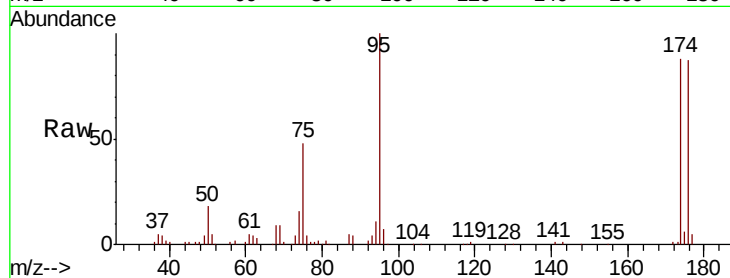
ClientSampleId :

Tot Ion: 75 Resp: 36995

Ion Ratio Lower Upper

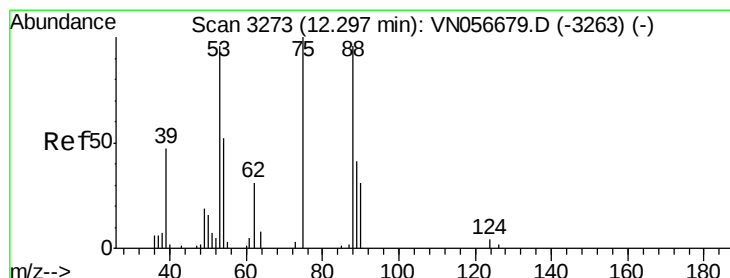
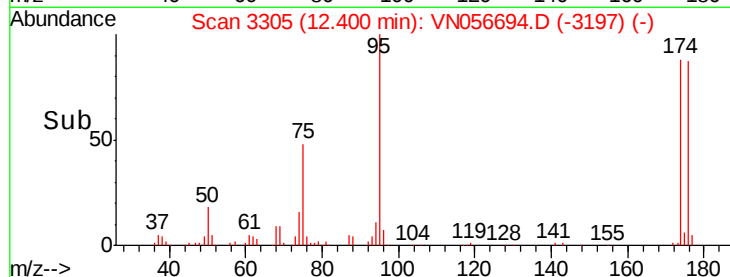
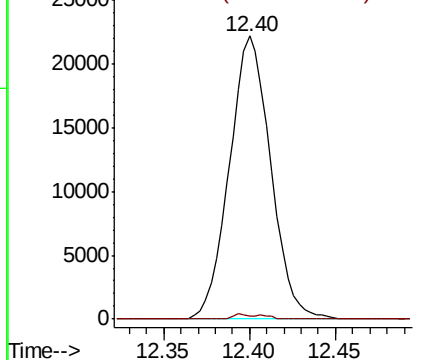
75 100

77 0.5 0.0 352.2



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



#77

t-1,4-Dichloro-2-butene

Concen: 30.782 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056694.D

Acq: 12 Jul 2019 17:50

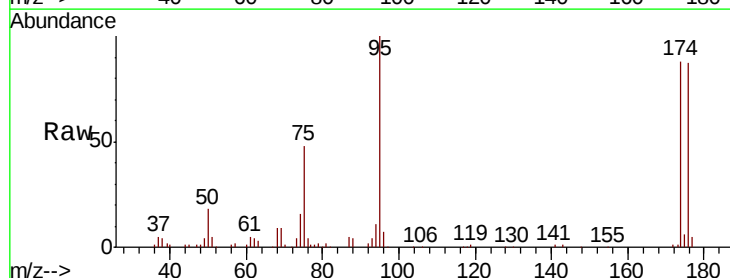
Tgt Ion: 75 Resp: 36995

Ion Ratio Lower Upper

75 100

53 0.0 48.6 145.8#

89 0.0 21.3 64.0#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0

