

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\
 Data File : VN064513.D
 Acq On : 9 Nov 2020 17:58
 Operator : JC/MD
 Sample : L4628-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 10 03:18:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 09 13:16:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.16	128	56739	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.55	114	307153	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.38	117	276755	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	7.99	65	167223	33.29	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	110.97%#
60) 4-Bromofluorobenzene	12.38	95	111485	23.52	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	78.40%
63) Toluene-d8	10.06	98	380686	29.49	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.30%

Target Compounds

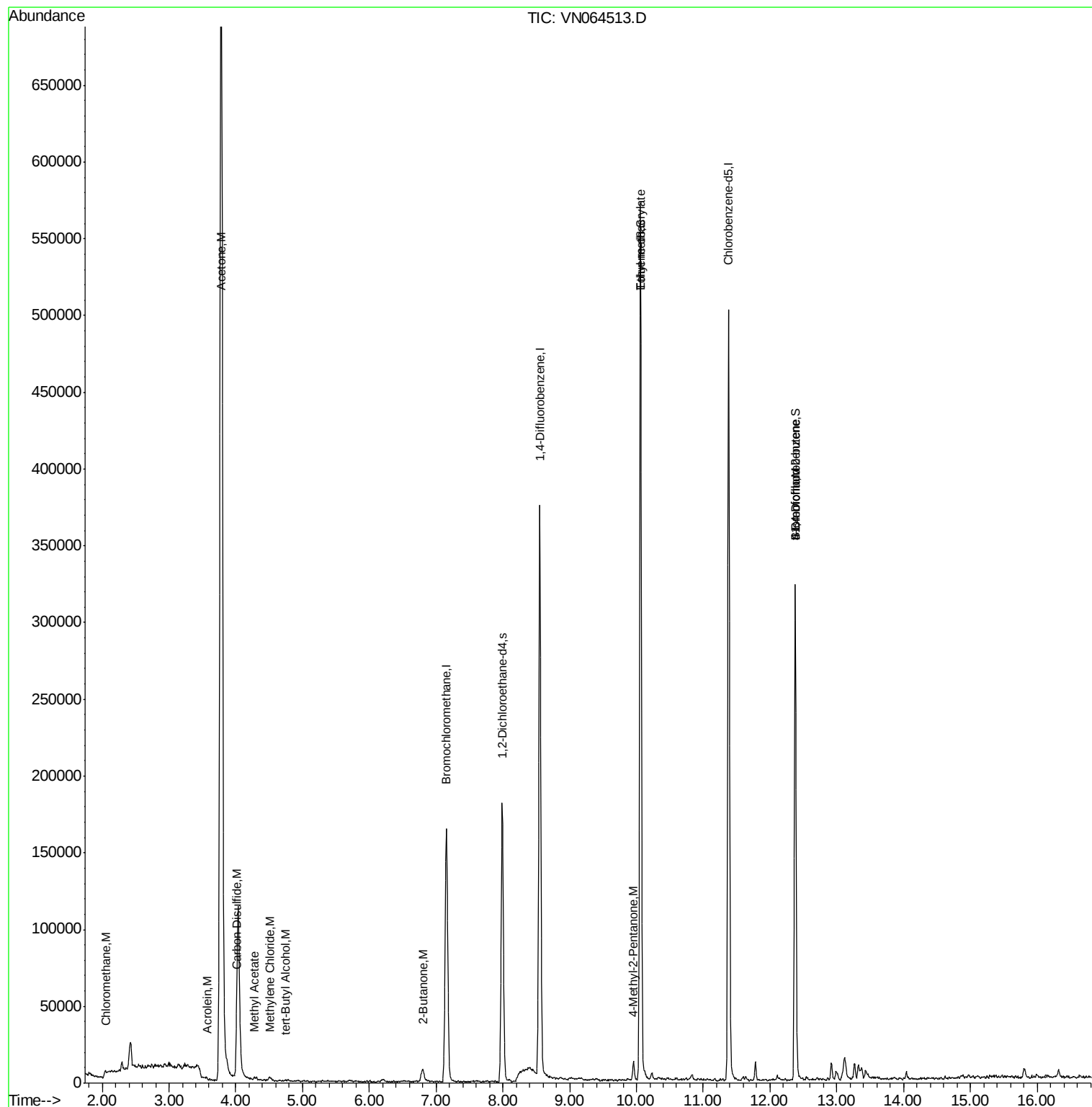
					Ovalue	
3) Chloromethane	2.04	50	2937	0.677	ug/l #	86
12) Methyl Acetate	4.28	43	1104	0.296	ug/l #	54
13) Acrolein	3.57	56	273	0.723	ug/l	96
15) Acetone	3.78	58	430353	785.117	ug/l	96
16) Carbon Disulfide	4.00	76	3265	0.351	ug/l #	74
18) Methylene Chloride	4.50	84	1015	0.279	ug/l #	30
23) tert-Butyl Alcohol	4.75	59	142	0.250	ug/l #	100
30) 2-Butanone	6.80	43	8132	3.082	ug/l #	92
51) Ethyl methacrylate	10.06	69	1445	0.263	ug/l	89
56) Bromoform	12.38	173	638	0.221	ug/l #	1
58) 4-Methyl-2-Pentanone	9.96	43	7832	1.541	ug/l #	91
77) t-1,4-Dichloro-2-butene	12.38	75	63964	34.254	ug/l #	9

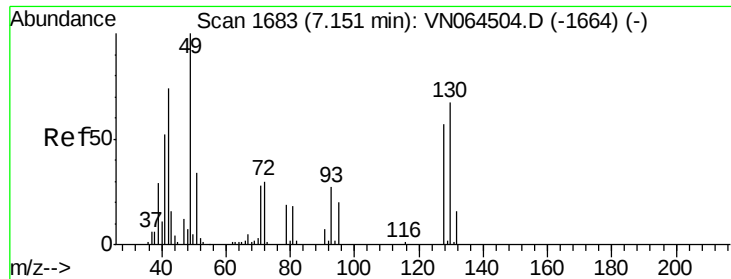
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110920\
Data File : VN064513.D
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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Nov 10 03:18:45 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N110920W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Nov 09 13:16:36 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.16 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

Instrument :
MSVOA_N
ClientSampled :

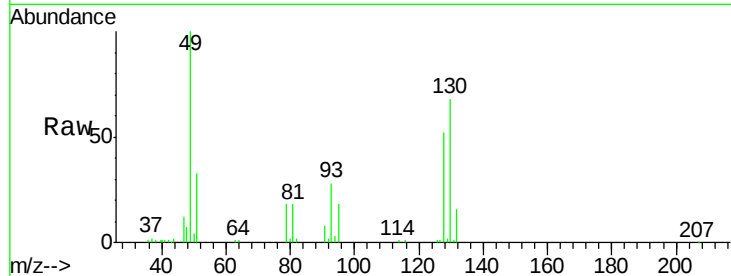
Tot Ion:128 Resp: 56739

Ion Ratio Lower Upper

128 100

49 194.8 0.0 475.5

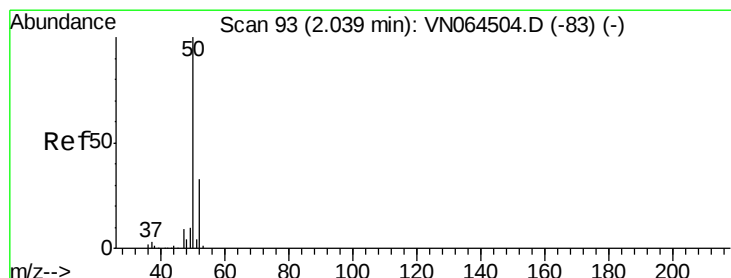
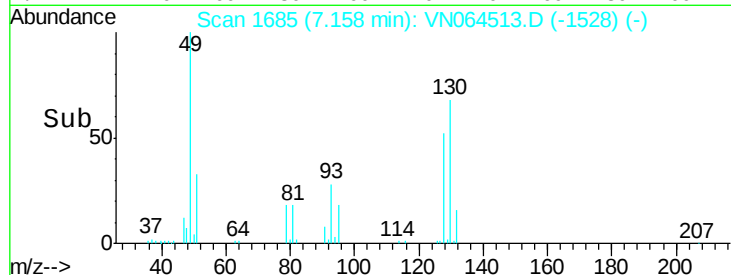
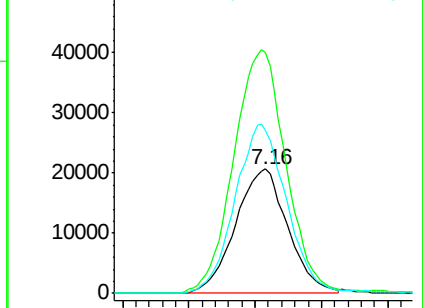
130 133.4 0.0 315.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VNO

Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.677 ug/l

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN064513.D

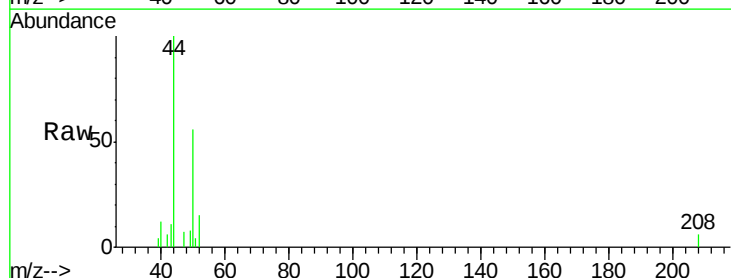
Acq: 9 Nov 2020 17:58

Tgt Ion: 50 Resp: 2937

Ion Ratio Lower Upper

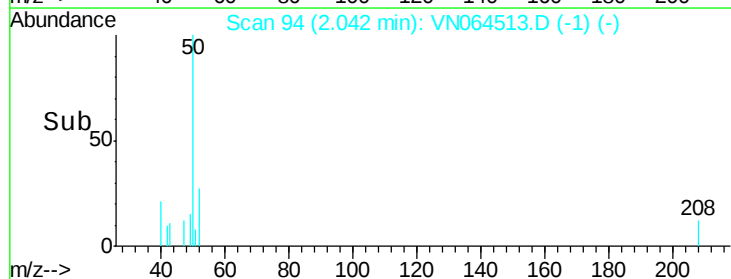
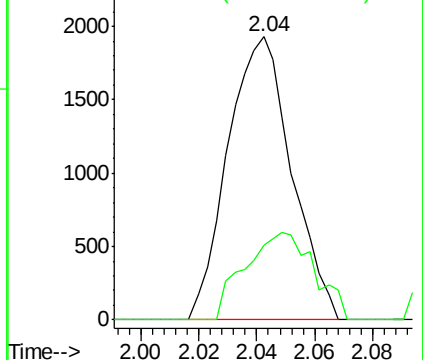
50 100

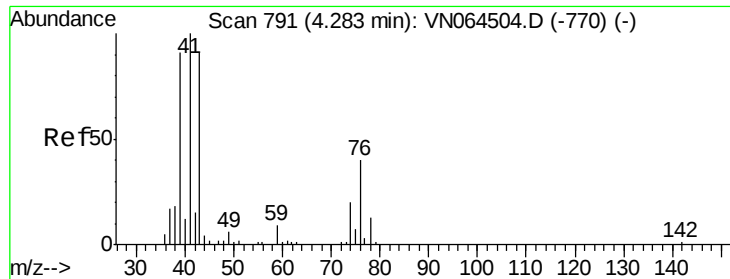
52 24.6 26.0 39.0#



Abundance Ion 50.00 (49.70 to 50.70): VNO

Ion 52.00 (51.70 to 52.70): VNO

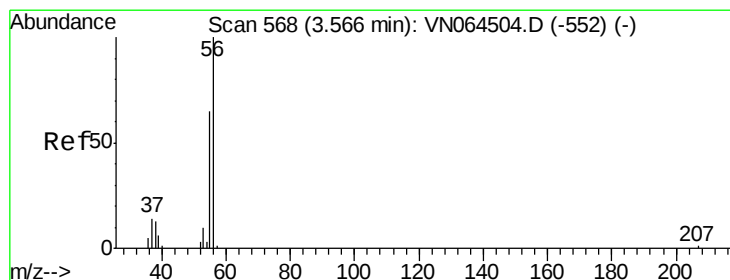
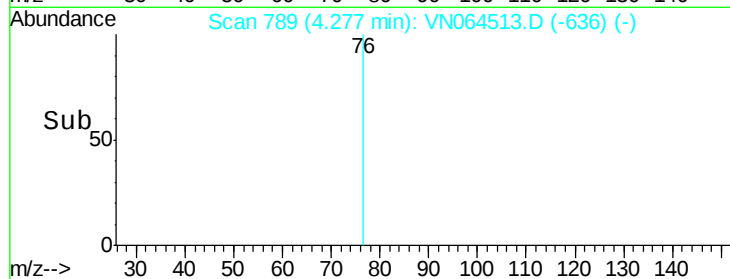
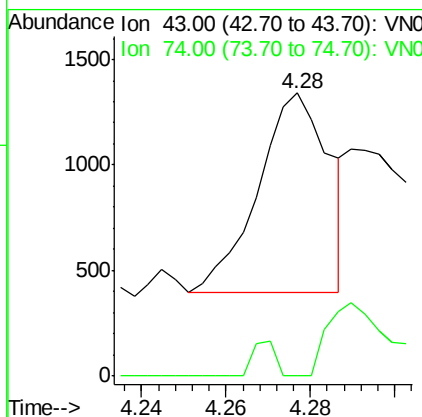
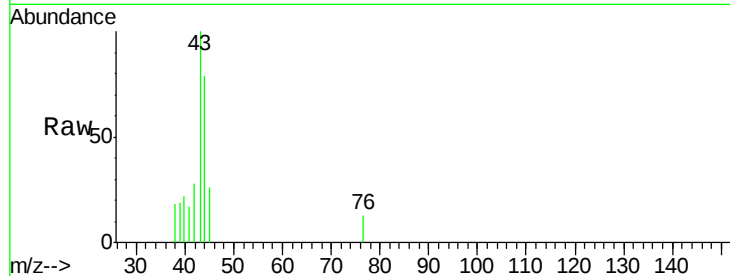




#12
Methvl Acetate
Concen: 0.296 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.01 min
Lab File: VN064513.D
Acq: 9 Nov 2020 17:58

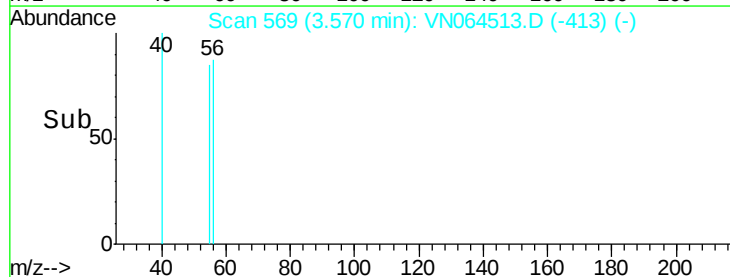
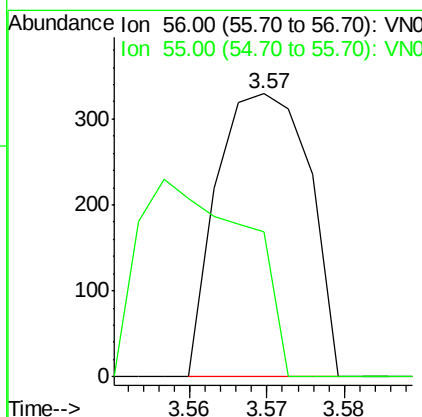
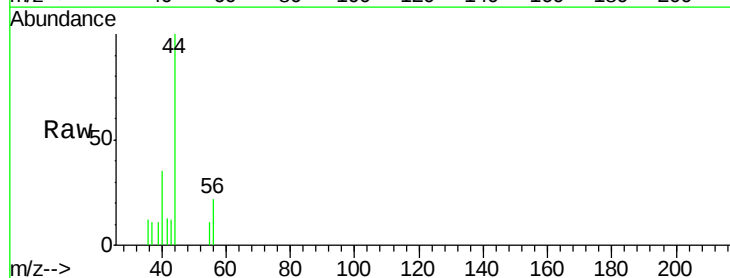
Instrument :
MSVOA_N
ClientSampled :

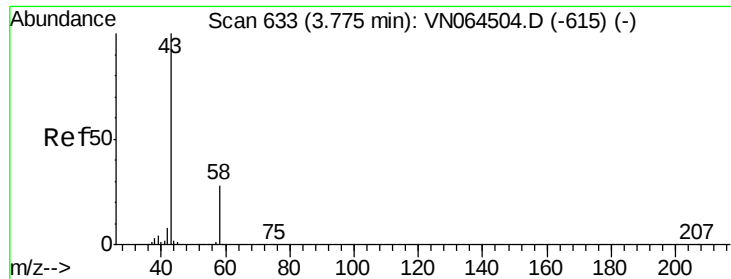
Tot Ion: 43 Resp: 1104
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#13
Acrolein
Concen: 0.723 ug/l
RT: 3.57 min Scan# 569
Delta R.T. 0.00 min
Lab File: VN064513.D
Acq: 9 Nov 2020 17:58

Tgt Ion: 56 Resp: 273
Ion Ratio Lower Upper
56 100
55 69.6 58.2 87.2





#15

Acetone

Concen: 785.117 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

Instrument :

MSVOA_N

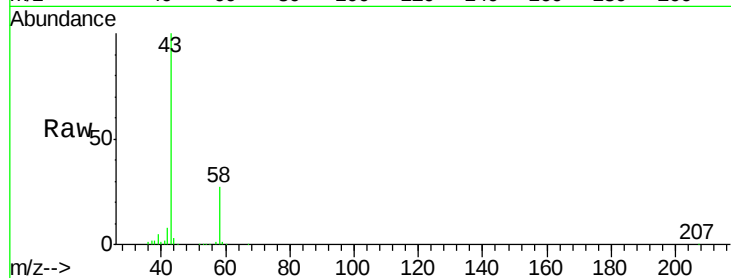
ClientSampleId :

Tot Ion: 58 Resp: 430353

Ion Ratio Lower Upper

58 100

43 371.9 289.8 434.8



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

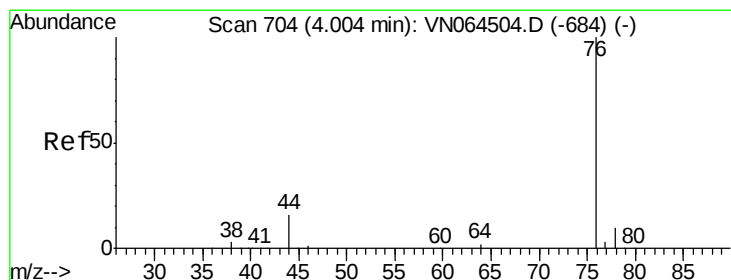
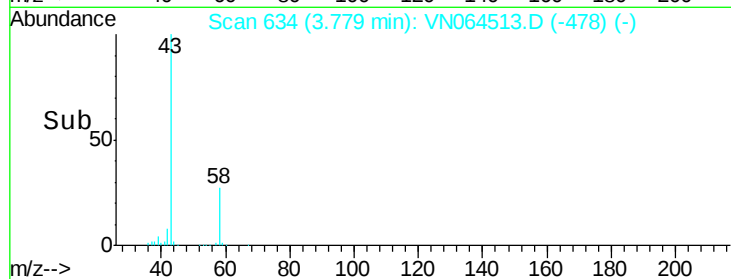
600000

400000

200000

3.78

Time-->



#16

Carbon Disulfide

Concen: 0.351 ug/l

RT: 4.00 min Scan# 703

Delta R.T. -0.00 min

Lab File: VN064513.D

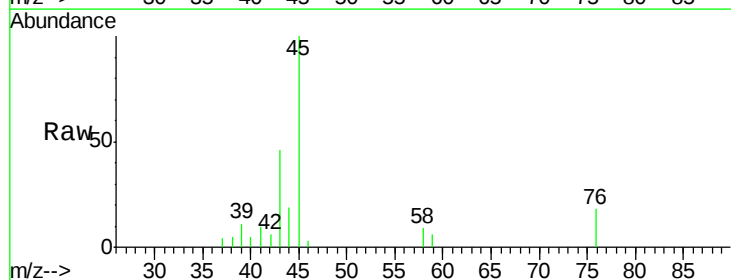
Acq: 9 Nov 2020 17:58

Tgt Ion: 76 Resp: 3265

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

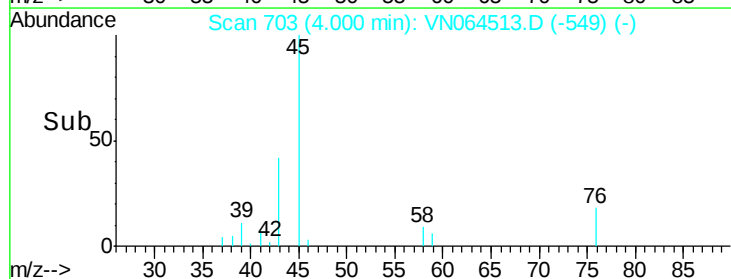
1500

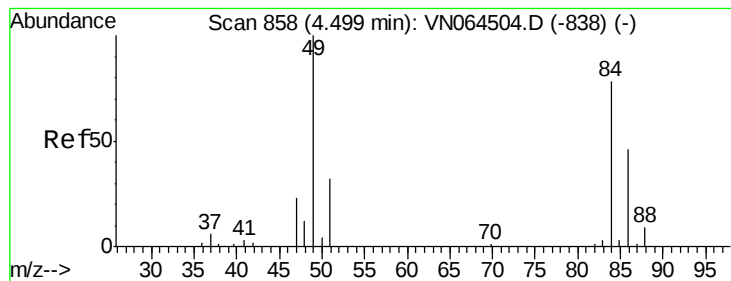
1000

500

4.00

Time-->





#18

Methvlene Chloride

Concen: 0.279 ug/l

RT: 4.50 min Scan# 858

Delta R.T. -0.00 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 1015

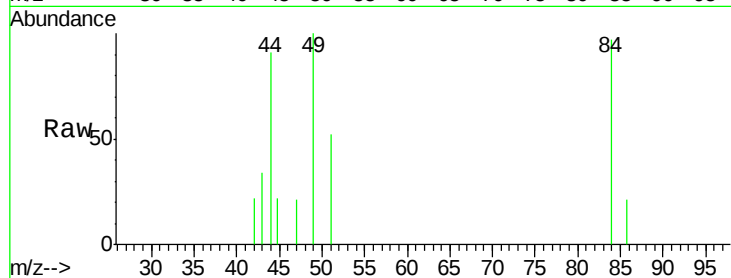
Ion Ratio Lower Upper

84 100

49 32.5 102.1 153.1#

51 54.1 32.6 48.8#

86 0.0 46.7 70.1#

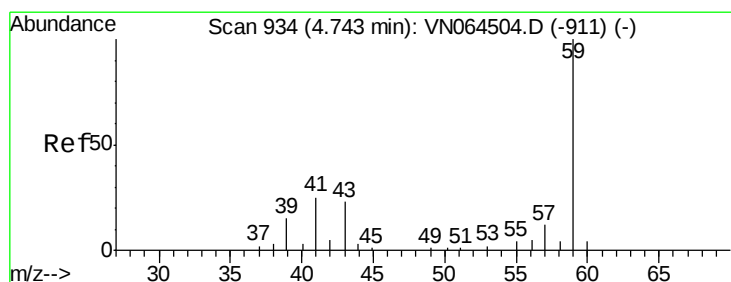
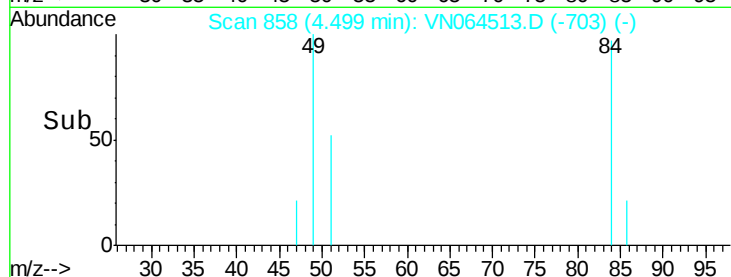
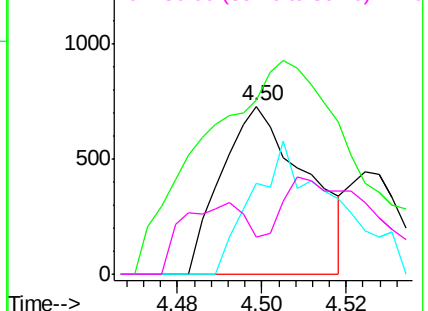


Abundance Ion 84.00 (83.70 to 84.70): VN0

Ion 49.00 (48.70 to 49.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#23

tert-Butyl Alcohol

Concen: 0.250 ug/l

RT: 4.75 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN064513.D

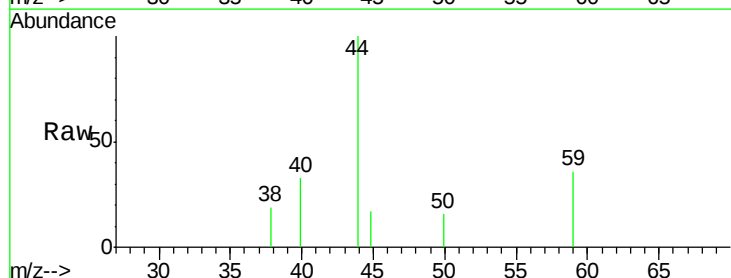
Acq: 9 Nov 2020 17:58

Tgt Ion: 59 Resp: 142

Ion Ratio Lower Upper

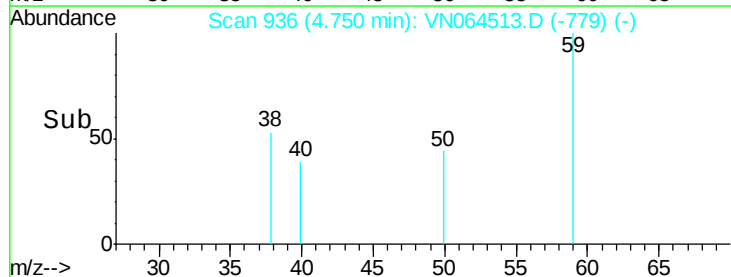
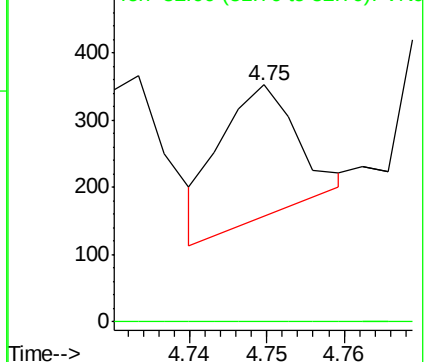
59 100

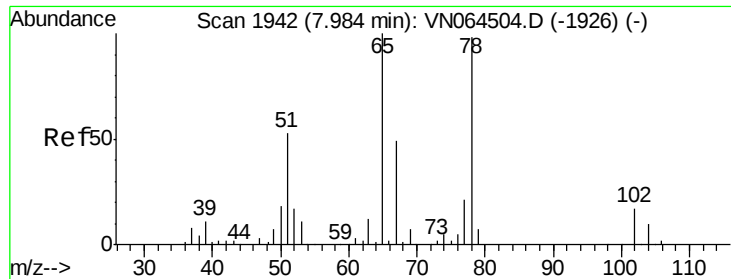
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#27

1,2-Dichloroethane-d4

Concen: 33.292 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

Instrument :

MSVOA_N

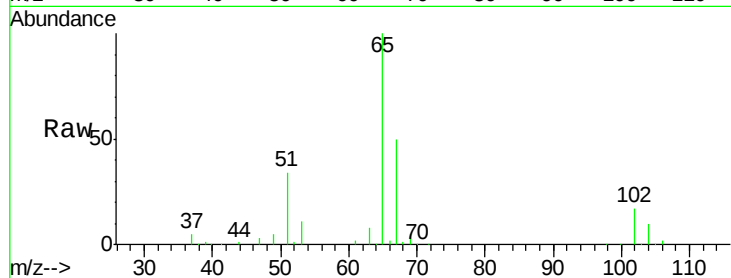
ClientSampleId :

Tot Ion: 65 Resp: 167223

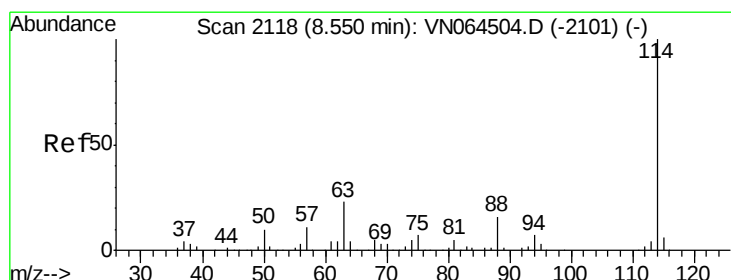
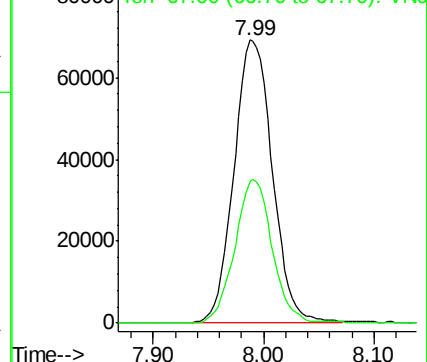
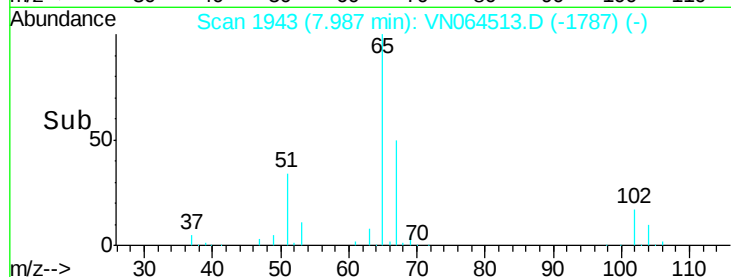
Ion Ratio Lower Upper

65 100

67 49.1 41.1 61.7



Abundance Ion 65.00 (64.70 to 65.70): VN064513.D (-1787) (-)



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.55 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

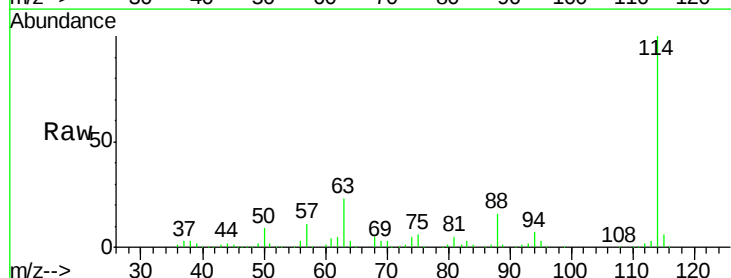
Tgt Ion: 114 Resp: 307153

Ion Ratio Lower Upper

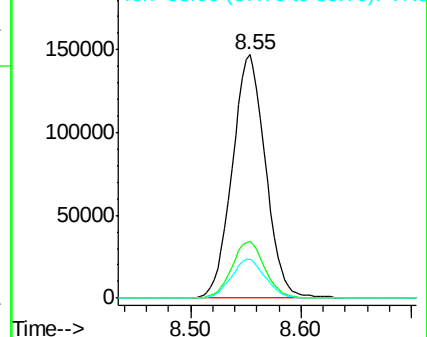
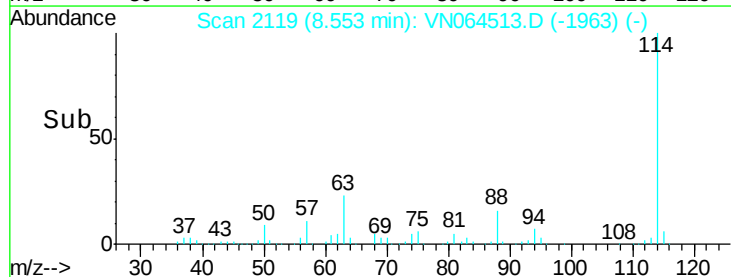
114 100

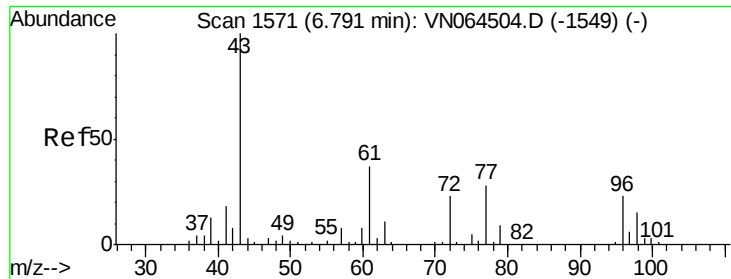
63 23.1 18.5 27.7

88 16.3 13.0 19.6



Abundance Ion 114.00 (113.70 to 114.70): VN064513.D (-1963) (-)

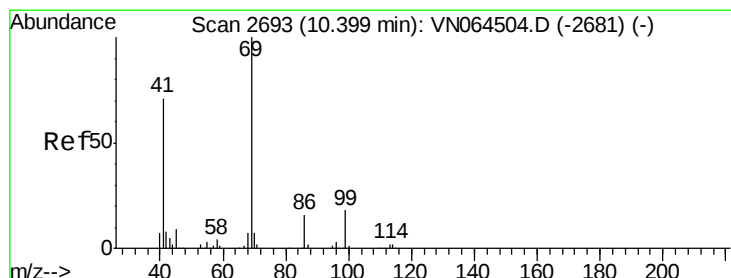
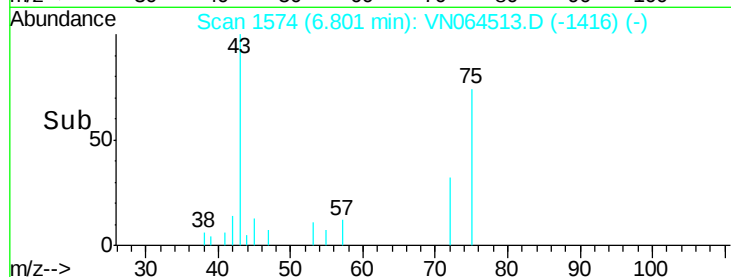
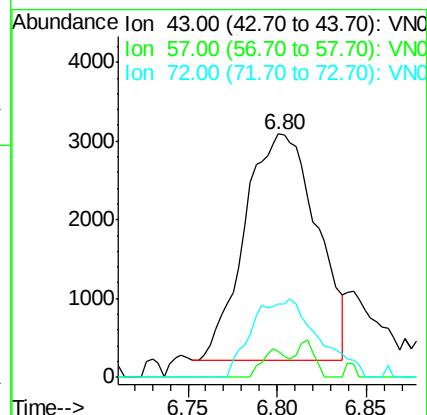
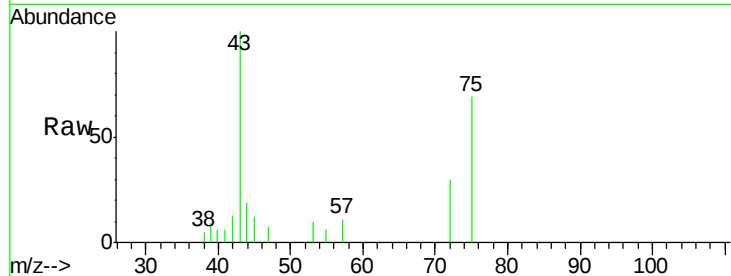




#30
 2-Butanone
 Concen: 3.082 ug/l
 RT: 6.80 min Scan# 1574
 Delta R.T. 0.01 min
 Lab File: VN064513.D
 Acq: 9 Nov 2020 17:58

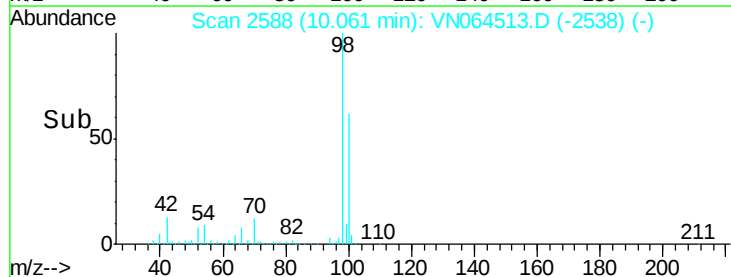
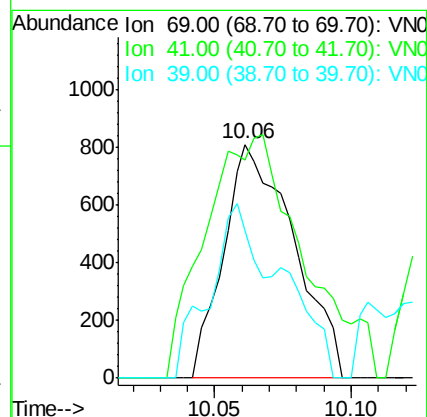
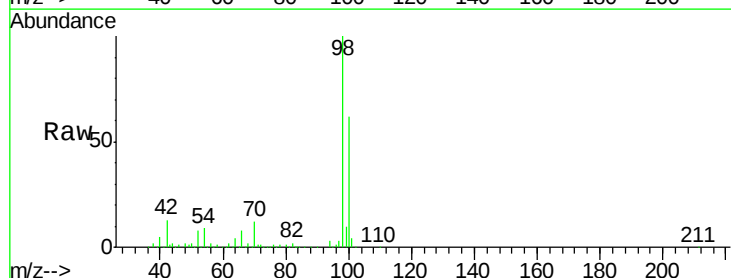
Instrument :
 MSVOA_N
 ClientSampled :

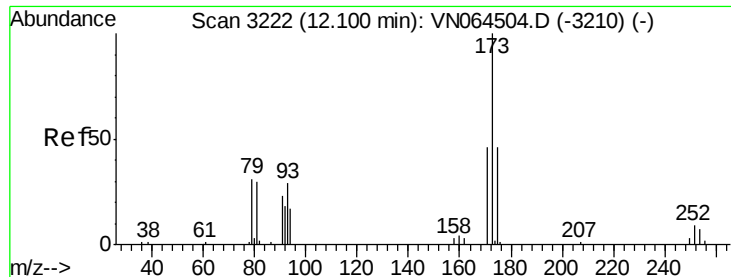
Tot Ion: 43 Resp: 8132
 Ion Ratio Lower Upper
 43 100
 57 4.3 6.2 9.4#
 72 9.8 9.9 14.9#



#51
 Ethyl methacrylate
 Concen: 0.263 ug/l
 RT: 10.06 min Scan# 2588
 Delta R.T. -0.34 min
 Lab File: VN064513.D
 Acq: 9 Nov 2020 17:58

Tgt Ion: 69 Resp: 1445
 Ion Ratio Lower Upper
 69 100
 41 68.6 35.4 106.1
 39 63.5 24.1 72.2





#56

Bromoform

Concen: 0.221 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

Instrument :

MSVOA_N

ClientSampleId :

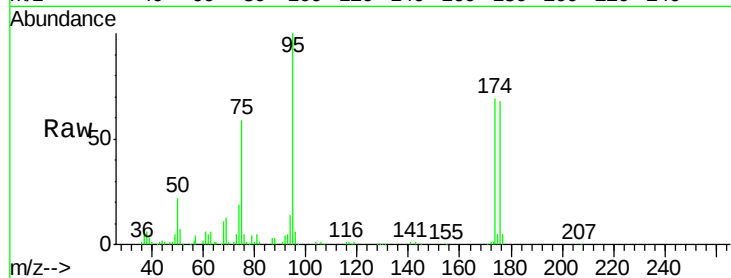
Tot Ion:173 Resp: 638

Ion Ratio Lower Upper

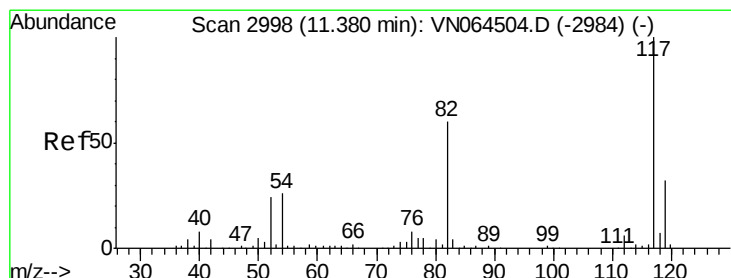
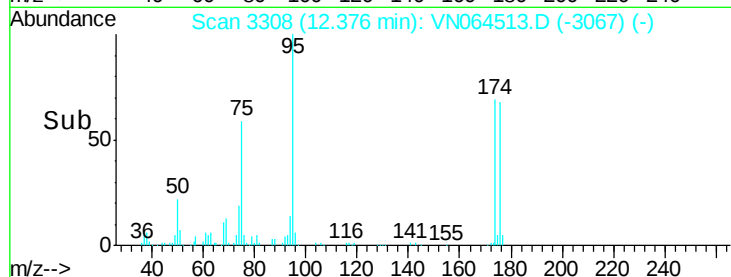
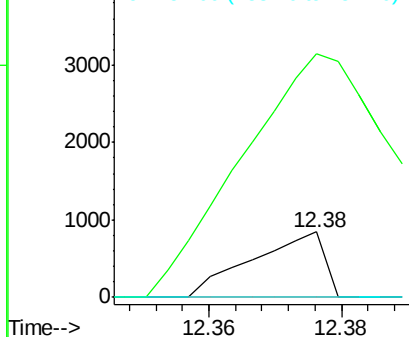
173 100

175 791.8 37.1 55.7#

254 0.0 5.4 8.2#



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: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

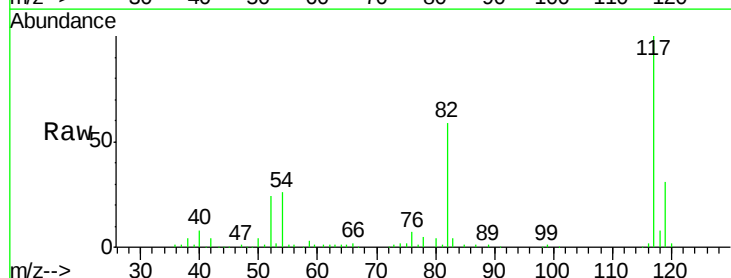
Tgt Ion:117 Resp: 276755

Ion Ratio Lower Upper

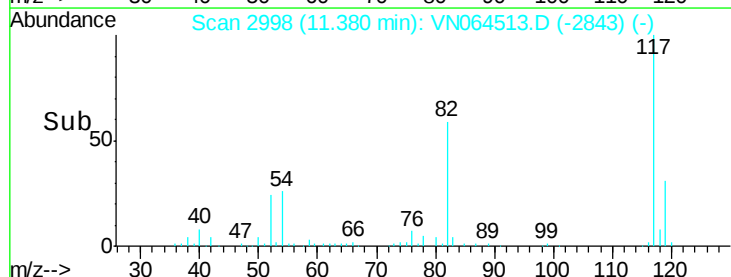
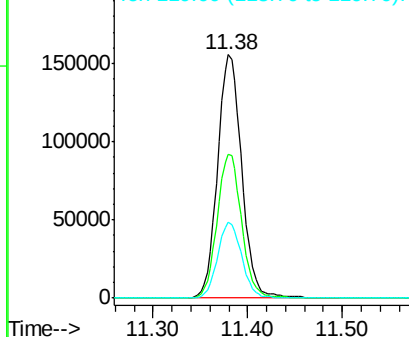
117 100

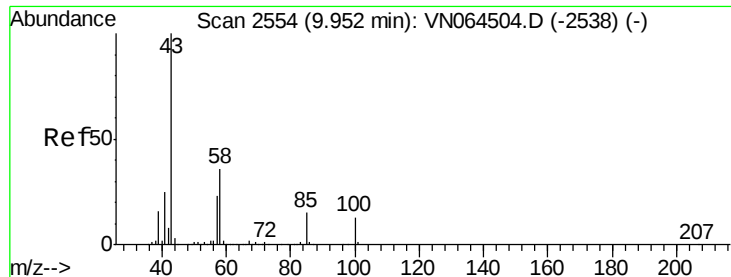
82 59.6 47.8 71.8

119 31.2 25.7 38.5



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

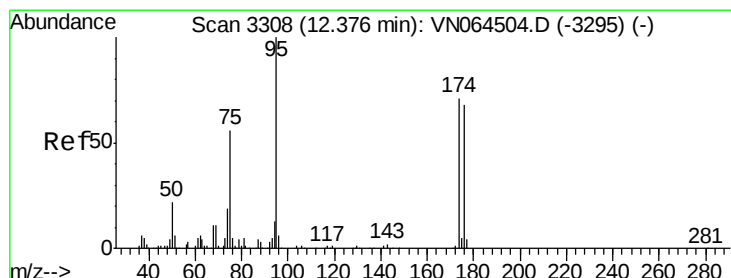
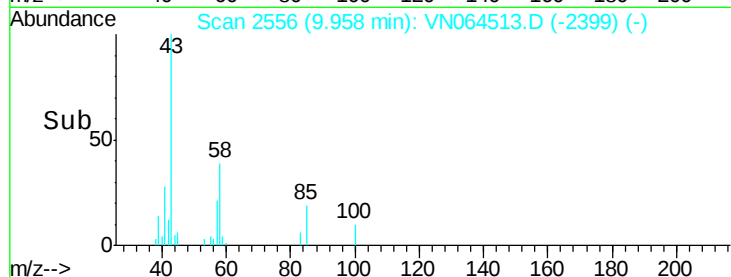
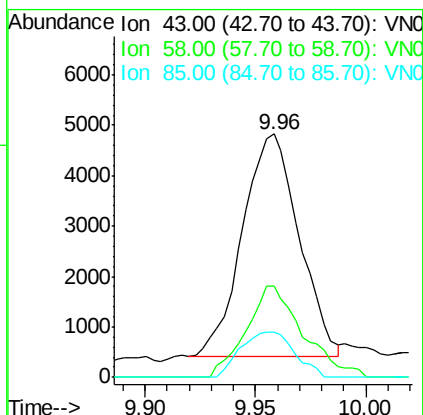
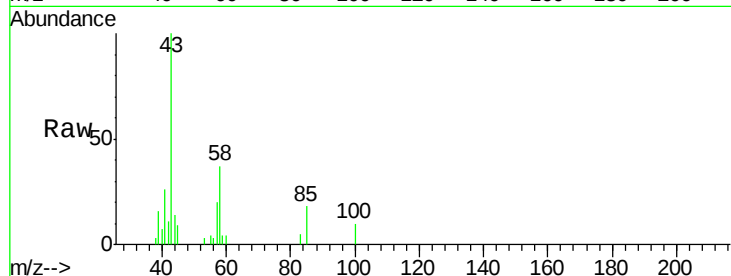




#58
4-Methyl-2-Pentanone
Concen: 1.541 ug/l
RT: 9.96 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN064513.D
Acq: 9 Nov 2020 17:58

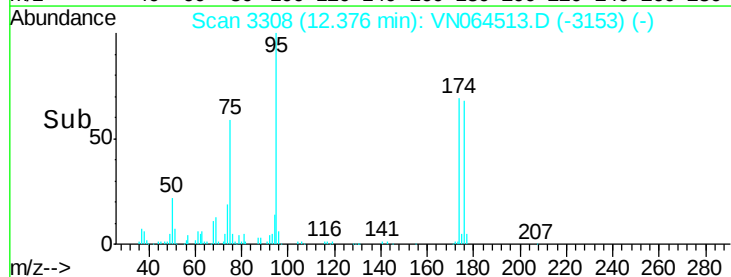
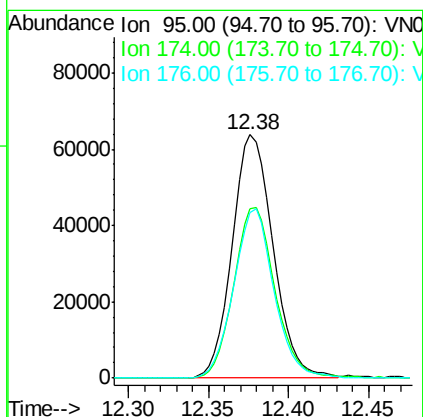
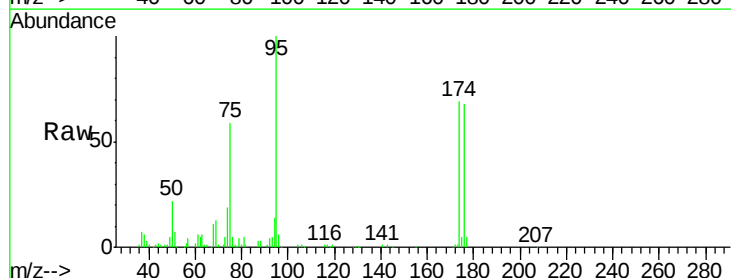
Instrument :
MSVOA_N
ClientSampleId :

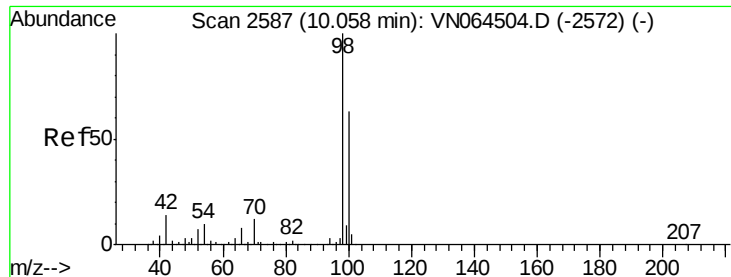
Tot Ion: 43 Resp: 7832
Ion Ratio Lower Upper
43 100
58 40.9 28.8 43.2
85 19.3 12.3 18.5#



#60
4-Bromofluorobenzene
Concen: 23.516 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.00 min
Lab File: VN064513.D
Acq: 9 Nov 2020 17:58

Tgt Ion: 95 Resp: 111485
Ion Ratio Lower Upper
95 100
174 70.8 56.4 84.6
176 68.4 53.3 79.9





#63

Toluene-d8

Concen: 29.494 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

Instrument :

MSVOA_N

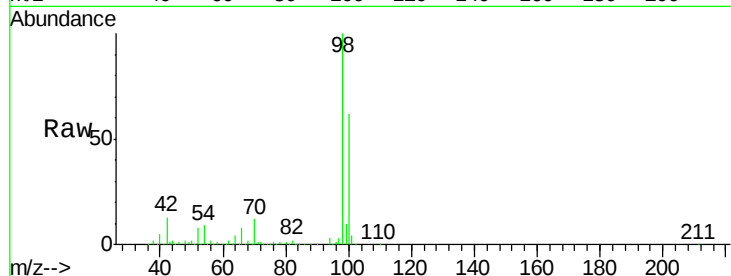
ClientSampleId :

Tot Ion: 98 Resp: 380686

Ion Ratio Lower Upper

98 100

100 61.9 49.4 74.2



Abundance Ion 98.00 (97.70 to 98.70): VN064513.D (-2432) (-)

Ion 100.00 (99.70 to 100.70): VN064513.D (-2432) (-)

10.06

250000

200000

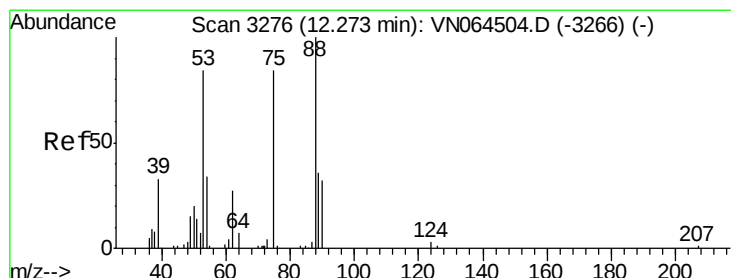
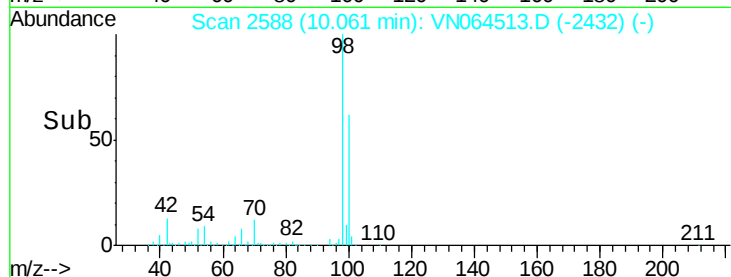
150000

100000

50000

0

Time-->



#77

t-1,4-Dichloro-2-butene

Concen: 34.254 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064513.D

Acq: 9 Nov 2020 17:58

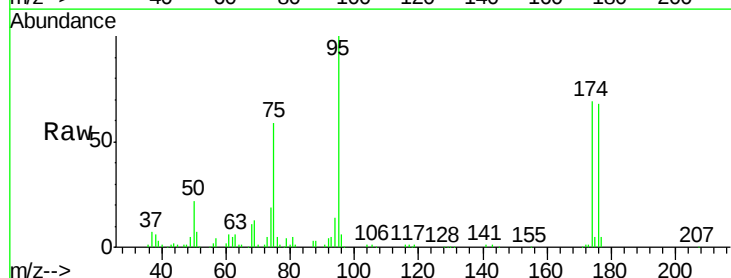
Tgt Ion: 75 Resp: 63964

Ion Ratio Lower Upper

75 100

53 0.0 50.3 150.9#

89 0.0 23.3 69.8#



Abundance Ion 75.00 (74.70 to 75.70): VN064513.D (-3121) (-)

Ion 53.00 (52.70 to 53.70): VN064513.D (-3121) (-)

Ion 89.00 (88.70 to 89.70): VN064513.D (-3121) (-)

12.38

50000

40000

30000

20000

10000

0

Time-->

