

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092420\
 Data File : VN063661.D
 Acq On : 25 Sep 2020 5:25
 Operator : JC/MD
 Sample : L4106-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GLOUCESTER-SP

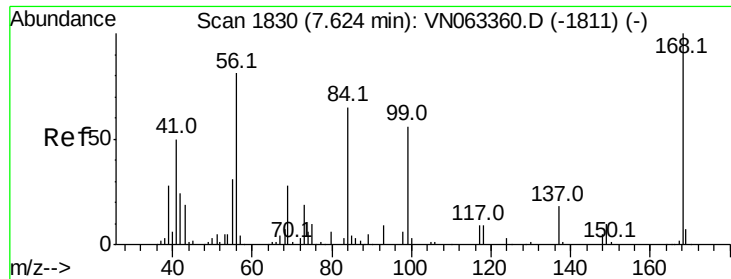
Quant Time: Sep 25 06:20:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	198591	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	392337	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	396687	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	161514	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	175557	51.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.86%	
35) Dibromofluoromethane	7.55	113	126316	46.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.02%	
50) Toluene-d8	10.06	98	501724	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	12.38	95	192946	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	15231	14.019	ug/l	98
18) Methyl Acetate	4.28	43	3005	1.090	ug/l #	75
20) Methylene Chloride	4.50	84	16067	5.837	ug/l	93
25) 2-Butanone	6.78	43	1049	0.628	ug/l #	87
29) Tetrahydrofuran	7.17	42	519	0.455	ug/l #	45
31) Cyclohexane	7.63	56	5818	1.246	ug/l #	28
36) 1,1-Dichloropropene	7.63	75	19152	4.582	ug/l #	46
38) Carbon Tetrachloride	7.62	117	21760	5.100	ug/l #	17
41) Methacrylonitrile	7.18	41	819	0.444	ug/l #	100
43) Isopropyl Acetate	8.13	43	71498	9.747	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1541	0.474	ug/l #	43
48) Methyl methacrylate	9.15	41	5534	1.536	ug/l #	15
49) 1,4-Dioxane	9.24	88	62	1.199	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9058	2.206	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	26549	5.081	ug/l #	70
56) Ethyl methacrylate	10.52	69	1873	0.421	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4429	0.862	ug/l #	42
59) 2-Hexanone	10.74	43	75053	25.227	ug/l #	52
74) N-amyl acetate	12.02	43	3113	0.508	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	113752	28.454	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	113752	78.011	ug/l #	7

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

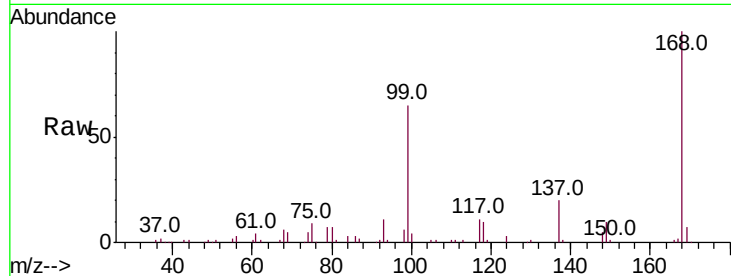
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Tot Ion:168 Resp: 198591

Ion Ratio Lower Upper

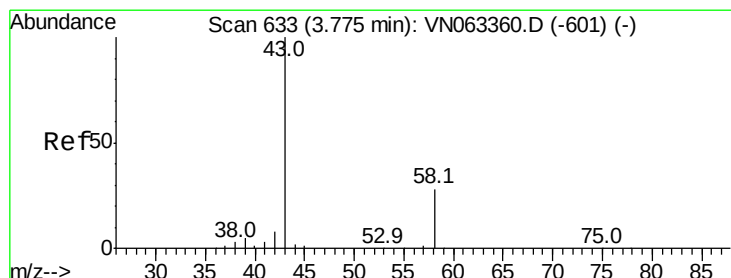
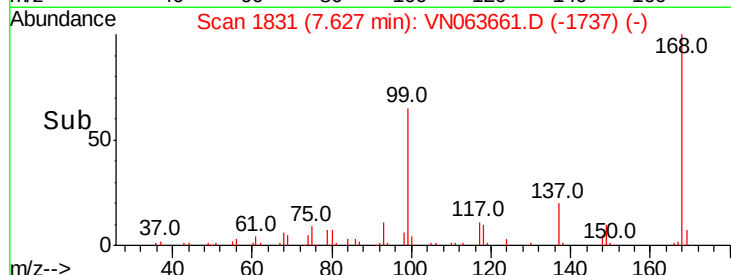
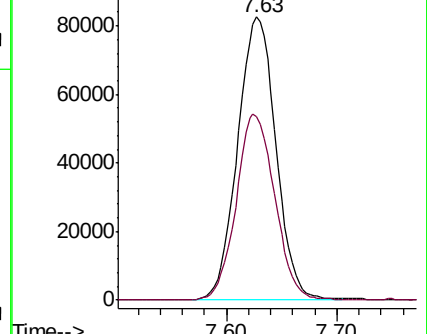
168 100

99 64.7 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 14.019 ug/l

RT: 3.78 min Scan# 633

Delta R.T. -0.00 min

Lab File: VN063661.D

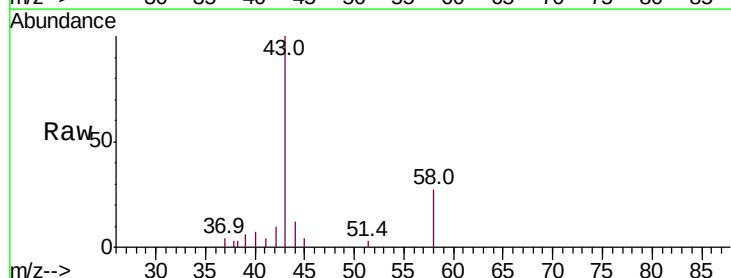
Acq: 25 Sep 2020 5:25

Tgt Ion: 43 Resp: 15231

Ion Ratio Lower Upper

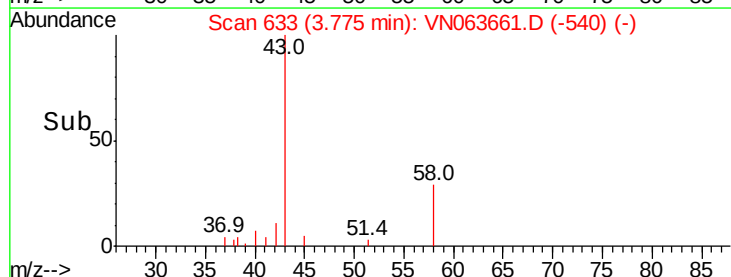
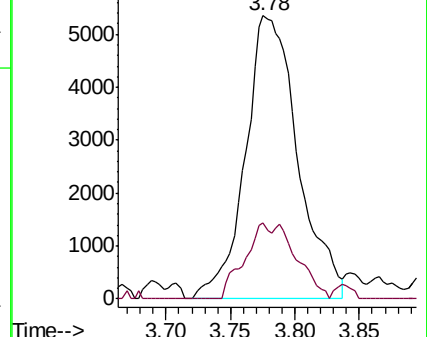
43 100

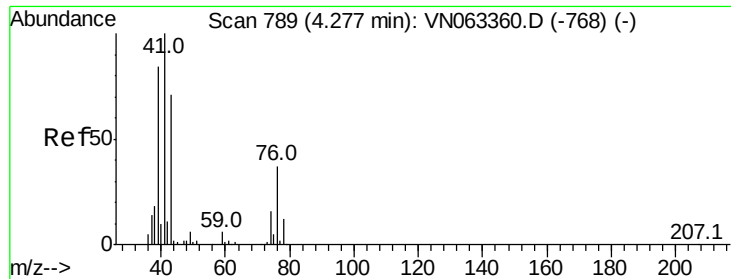
58 26.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

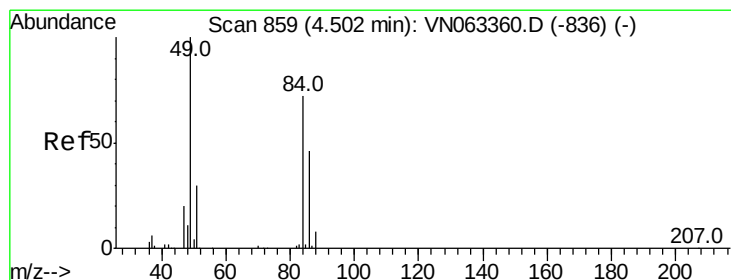
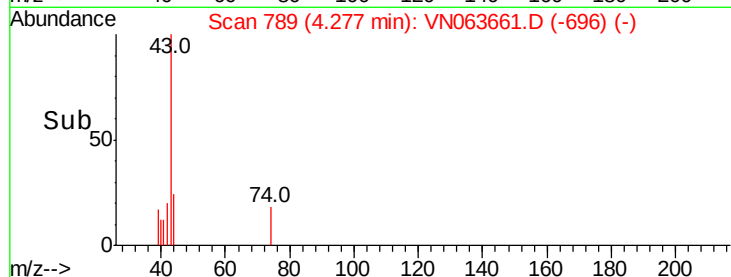
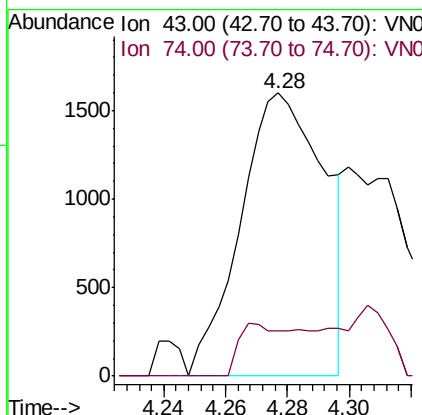
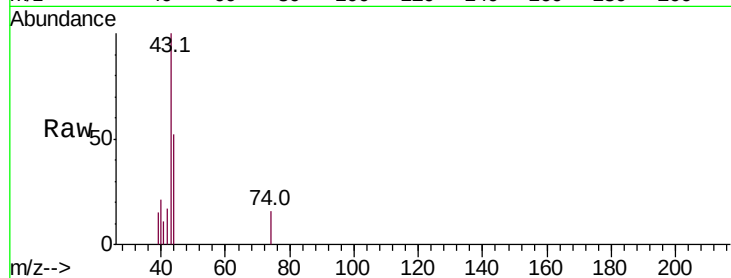




#18
Methvl Acetate
Concen: 1.090 ug/l
RT: 4.28 min Scan# 789
Delta R.T. -0.00 min
Lab File: VN063661.D
Acq: 25 Sep 2020 5:25

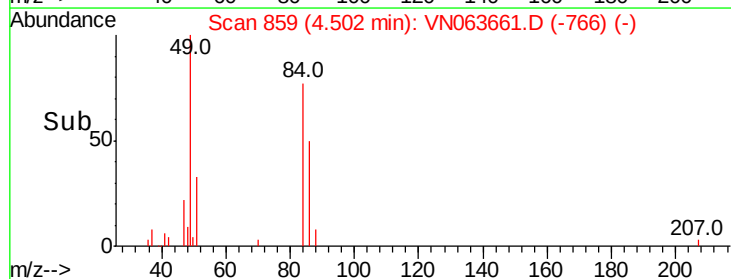
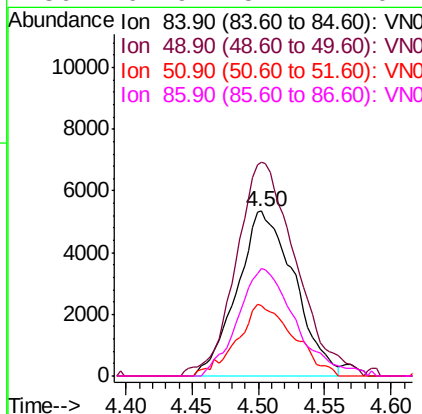
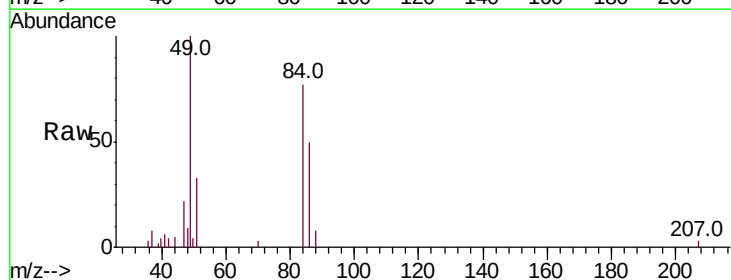
Instrument :
MSVOA_N
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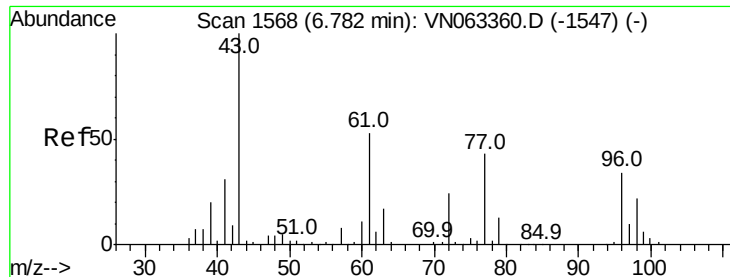
Tot Ion: 43 Resp: 3005
Ion Ratio Lower Upper
43 100
74 10.1 17.4 26.2#



#20
Methylene Chloride
Concen: 5.837 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN063661.D
Acq: 25 Sep 2020 5:25

Tgt Ion: 84 Resp: 16067
Ion Ratio Lower Upper
84 100
49 124.9 110.7 166.1
51 42.8 32.9 49.3
86 64.9 51.1 76.7





#25

2-Butanone

Concen: 0.628 ug/l

RT: 6.78 min Scan# 1567

Delta R.T. -0.00 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

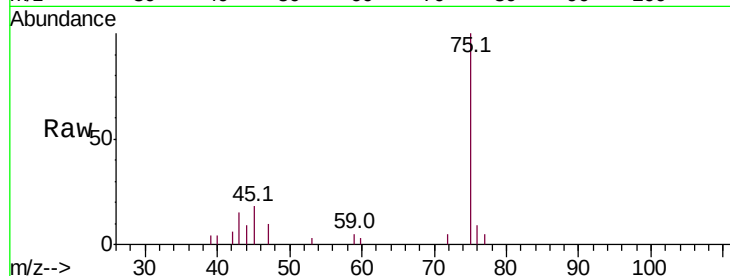
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Tot Ion: 43 Resp: 1049

Ion Ratio Lower Upper

43 100

72 30.5 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

1500

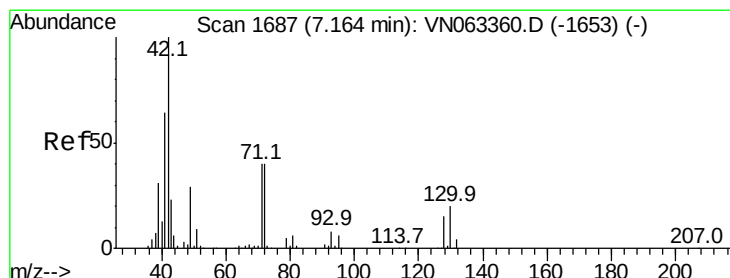
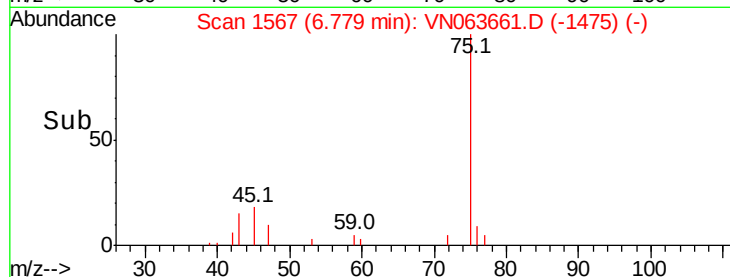
1000

500

0

6.74 6.76 6.78

Time-->



#29

Tetrahydrofuran

Concen: 0.455 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

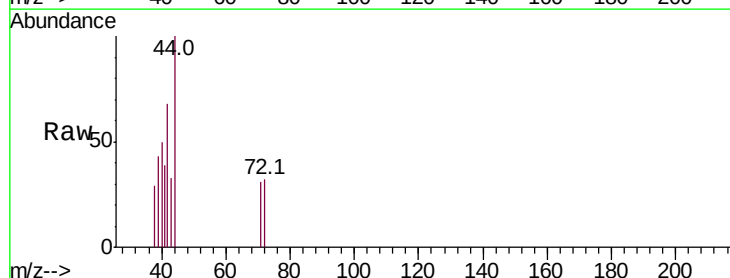
Tgt Ion: 42 Resp: 519

Ion Ratio Lower Upper

42 100

72 0.0 32.1 48.1#

71 11.9 31.2 46.8#



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

800

600

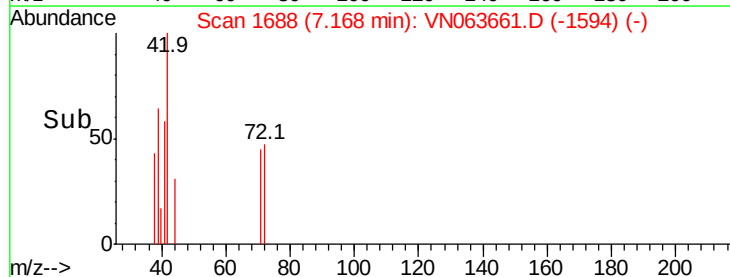
400

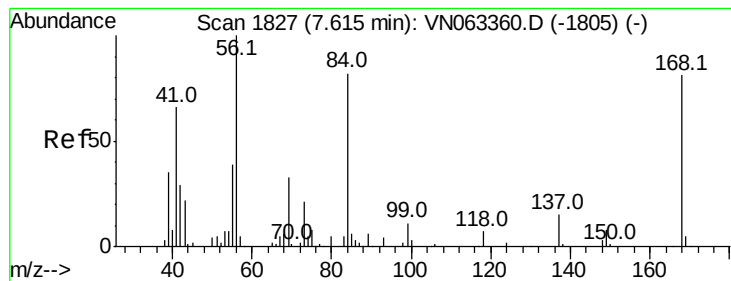
200

0

7.14 7.16 7.18

Time-->





#31

Cyclohexane

Concen: 1.246 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

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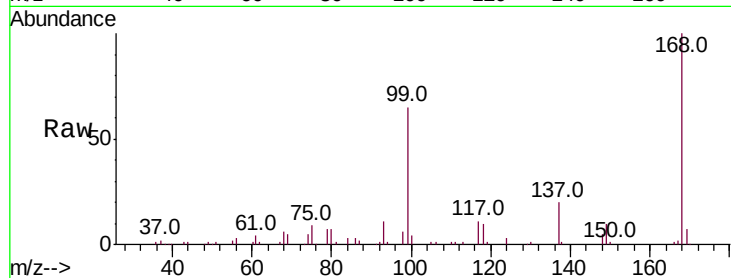
Tot Ion: 56 Resp: 5818

Ion Ratio Lower Upper

56 100

69 152.1 26.1 39.1#

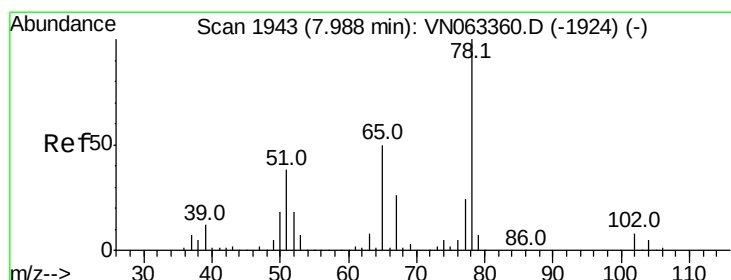
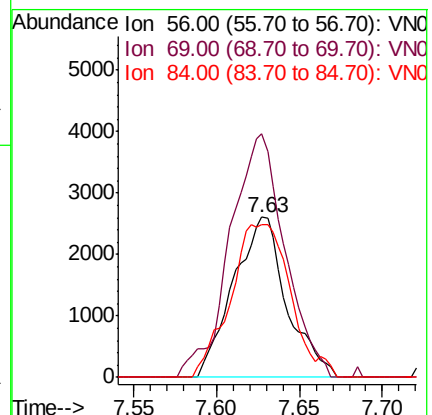
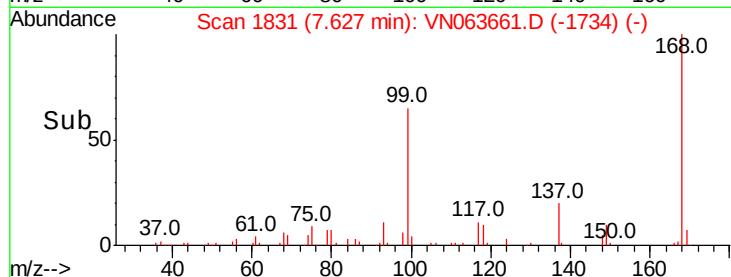
84 95.5 65.4 98.2



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: 51.932 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. -0.00 min

Lab File: VN063661.D

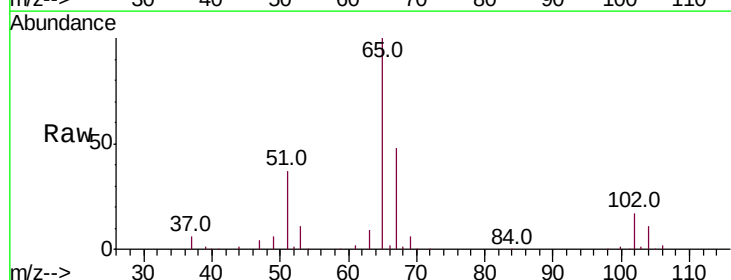
Acq: 25 Sep 2020 5:25

Tgt Ion: 65 Resp: 175557

Ion Ratio Lower Upper

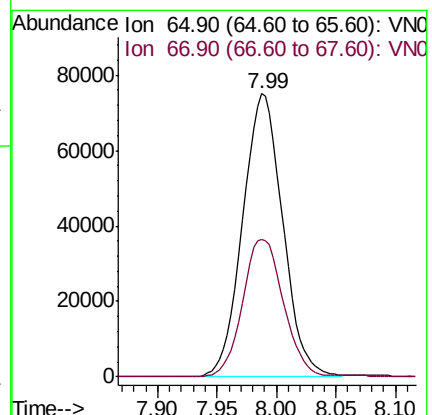
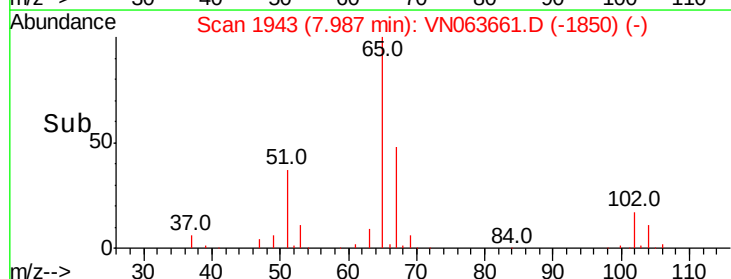
65 100

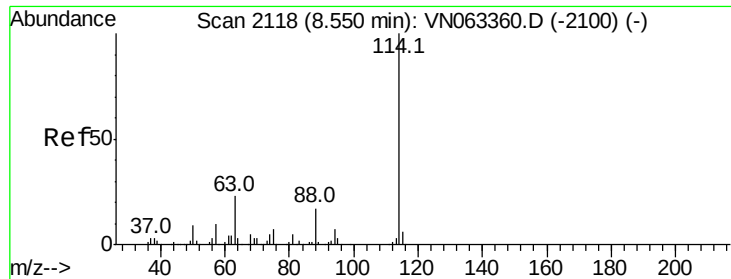
67 49.5 0.0 104.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

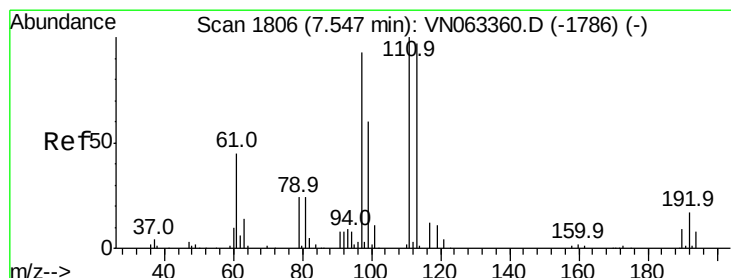
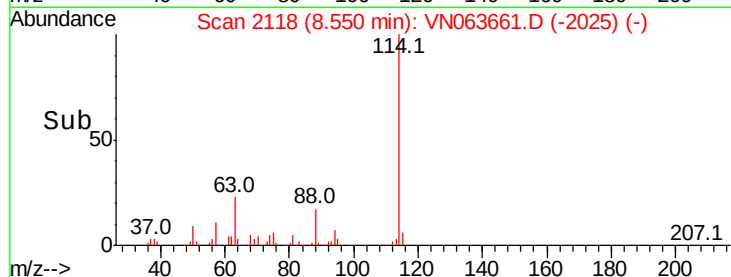
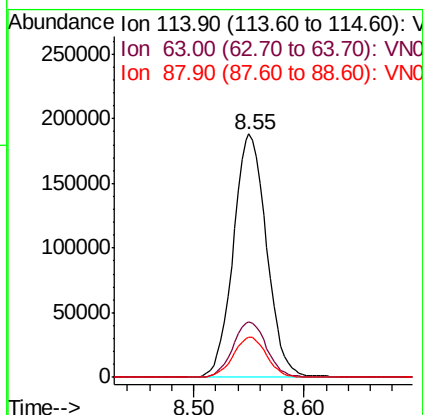
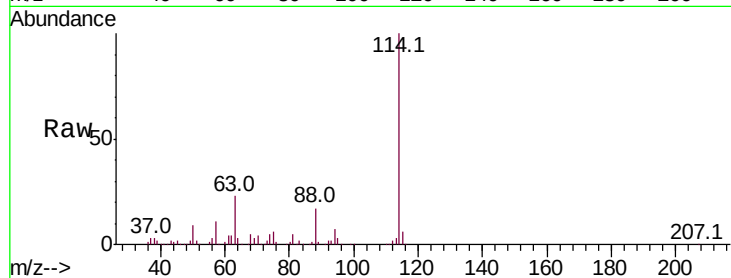




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN063661.D
 Acq: 25 Sep 2020 5:25

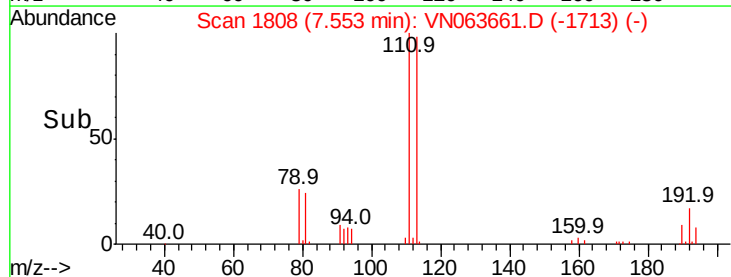
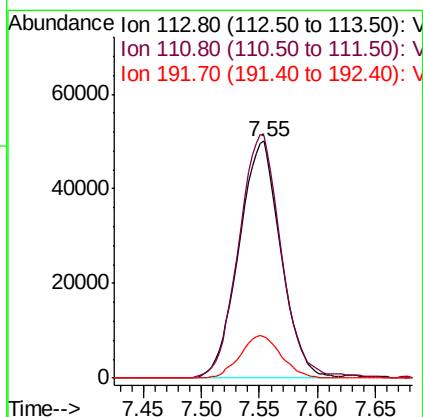
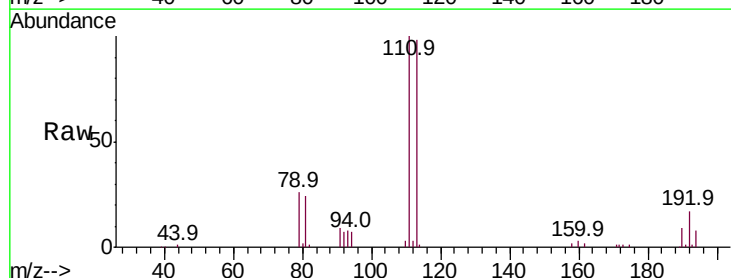
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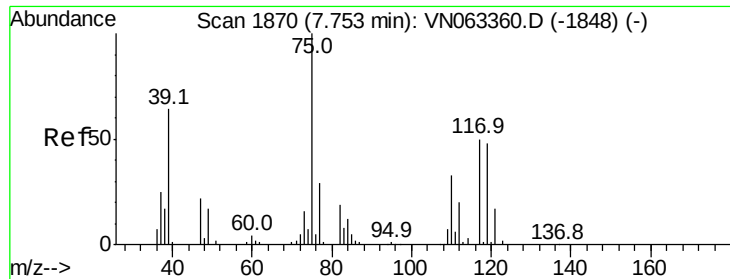
Tot Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	46.4
88	16.7	0.0	33.2



#35
 Dibromofluoromethane
 Concen: 46.507 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN063661.D
 Acq: 25 Sep 2020 5:25

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.9	124.3
192	17.6	13.9	20.9

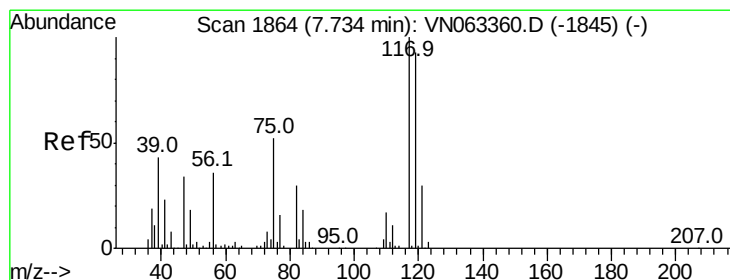
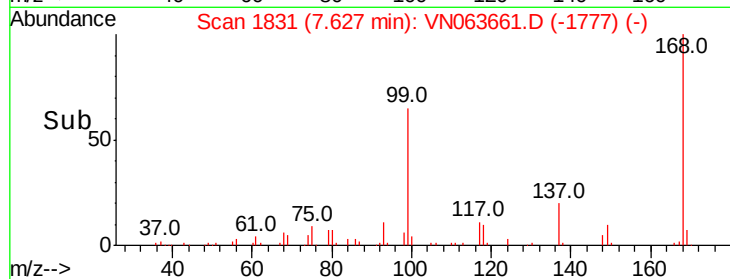
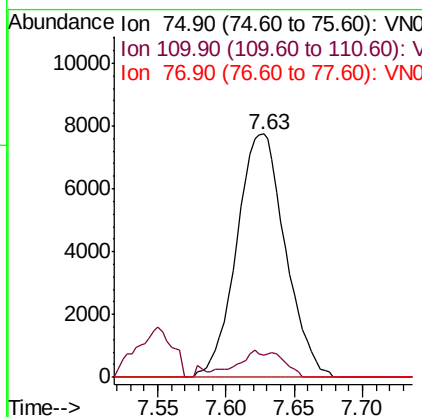
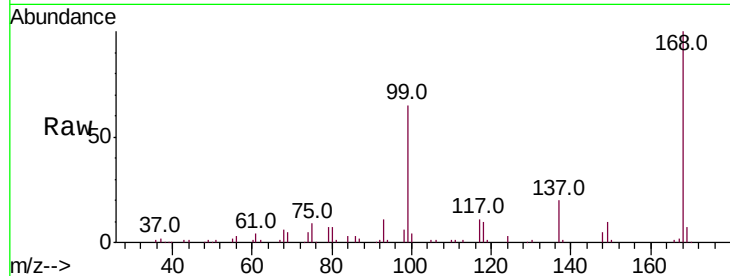




#36
 1,1-Dichloropropene
 Concen: 4.582 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN063661.D
 Acq: 25 Sep 2020 5:25

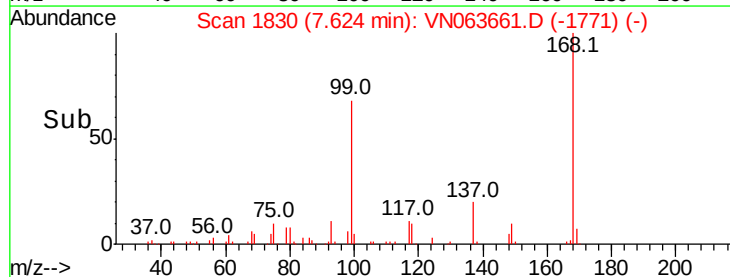
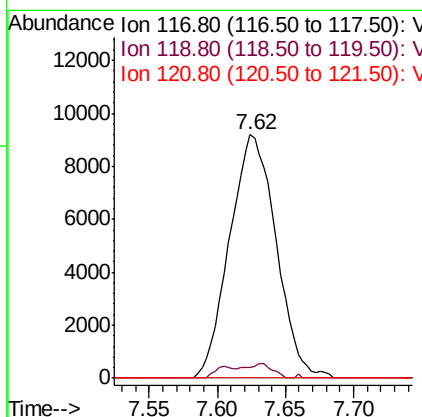
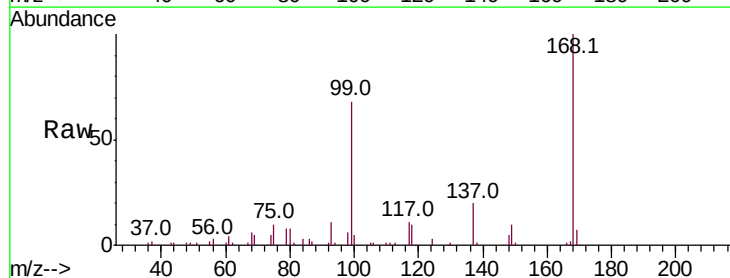
Instrument :
 MSVOA_N
 ClientSampleId :
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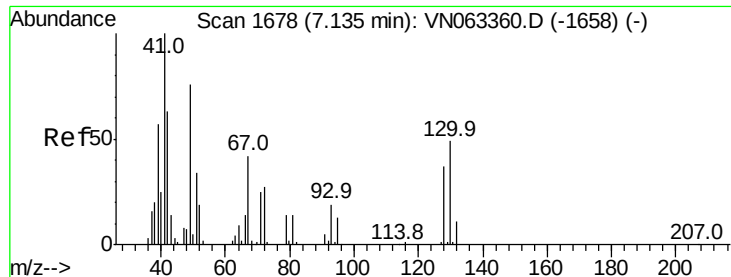
Tot Ion	Ratio	Lower	Upper
75	100		
110	3.6	16.5	49.5#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 5.100 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN063661.D
 Acq: 25 Sep 2020 5:25

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	74.5	111.7#
121	0.0	24.1	36.1#

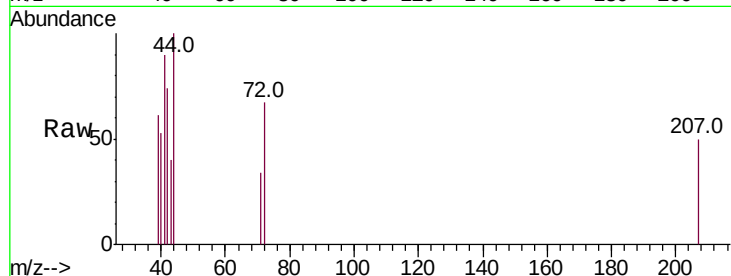




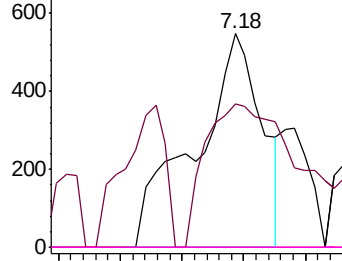
#41
Methacrylonitrile
Concen: 0.444 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.04 min
Lab File: VN063661.D
Acq: 25 Sep 2020 5:25

Instrument :
MSVOA_N
ClientSampleId :
GLOUCESTER-SP

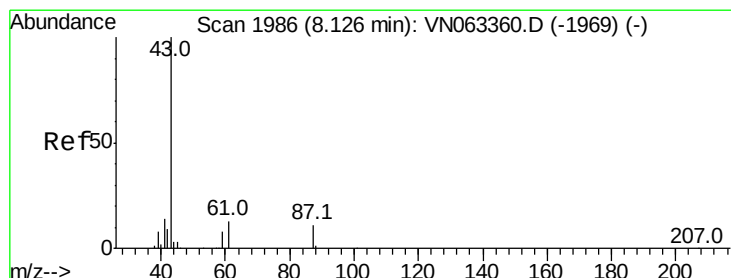
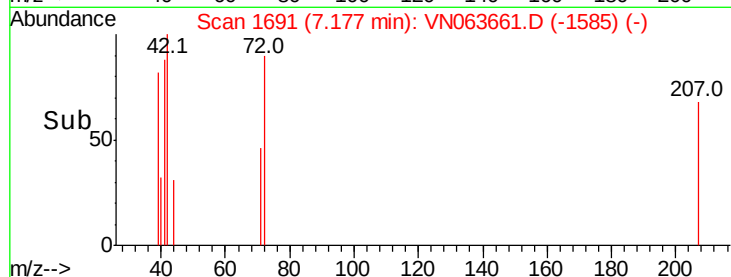
Tot Ion:	41	Resp:	819
Ion	Ratio	Lower	Upper
41	100		
39	94.4	0.0	0.0#
67	0.0	0.0	0.0
52	0.0	0.0	0.0



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

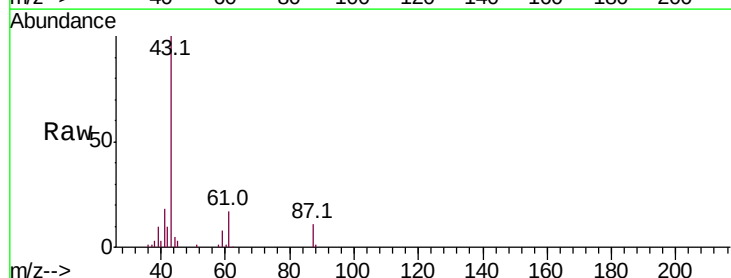


Time--> 7.12 7.14 7.16 7.18 7.20

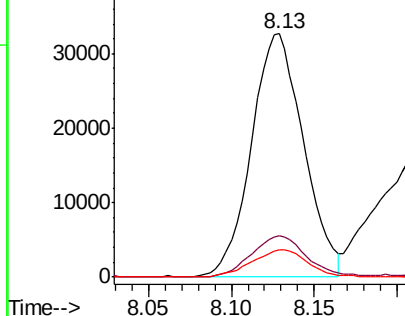


#43
Isopropyl Acetate
Concen: 9.747 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN063661.D
Acq: 25 Sep 2020 5:25

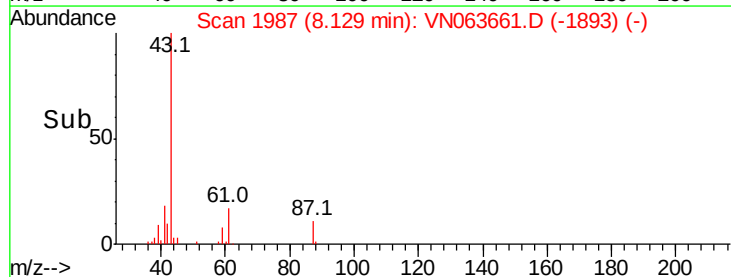
Tgt Ion:	43	Resp:	71498
Ion	Ratio	Lower	Upper
43	100		
61	17.9	14.2	21.2
87	11.9	9.0	13.6

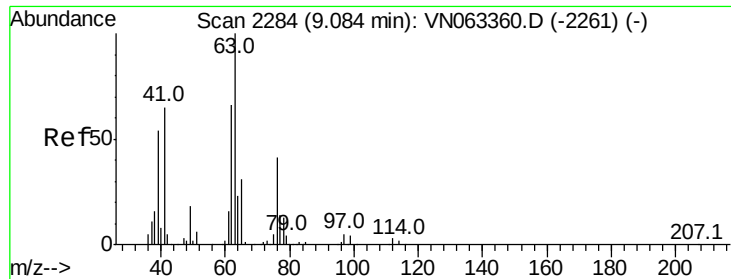


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



Time--> 8.05 8.10 8.15





#45

1,2-Dichloropropane

Concen: 0.474 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

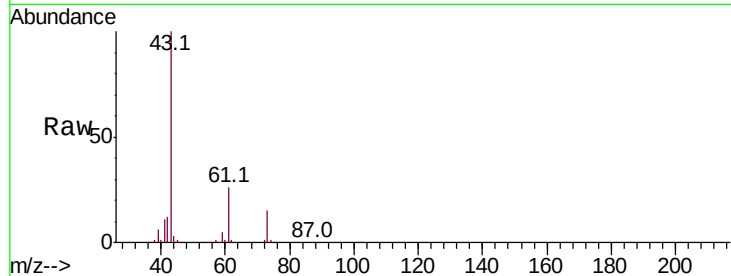
GLOUCESTER-SP

Tot Ion: 63 Resp: 1541

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

1000

800

600

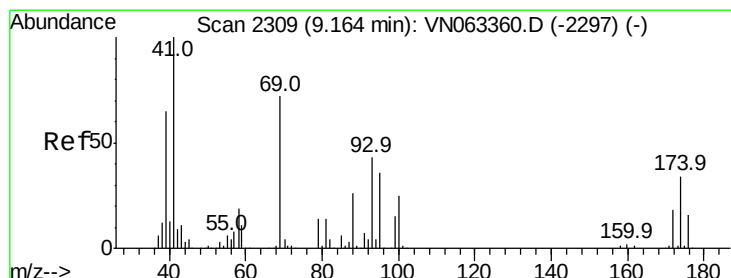
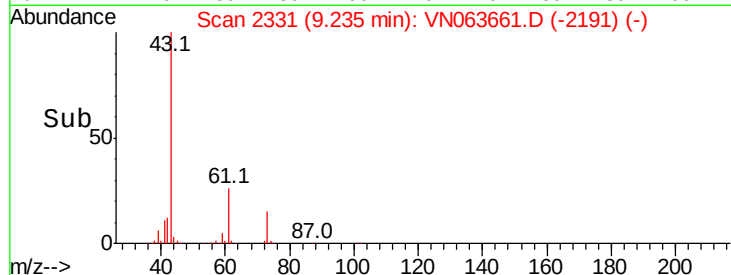
400

200

0

Time-->

9.20 9.25



#48

Methyl methacrylate

Concen: 1.536 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

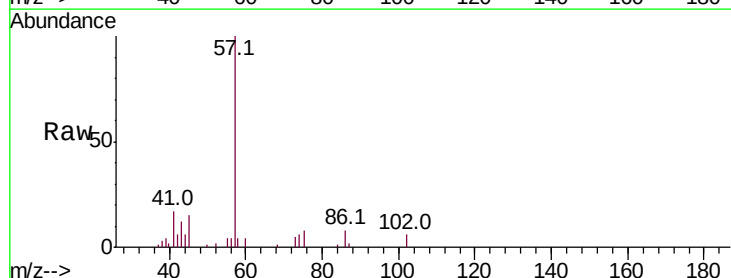
Tgt Ion: 41 Resp: 5534

Ion Ratio Lower Upper

41 100

69 0.0 59.3 88.9#

39 0.0 52.9 79.3#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

80000

60000

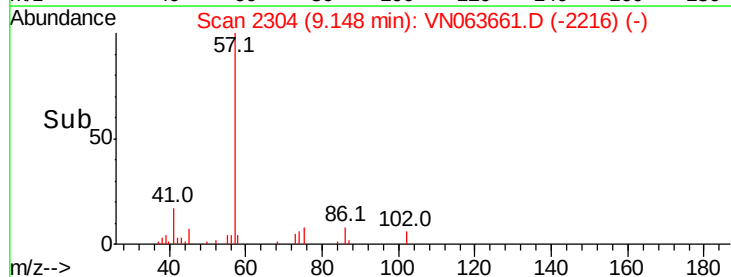
40000

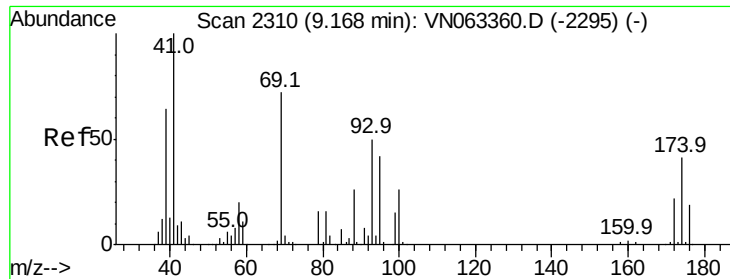
20000

0

Time-->

9.10 9.15 9.20





#49

1,4-Dioxane

Concen: 1.199 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

GLOUCESTER-SP

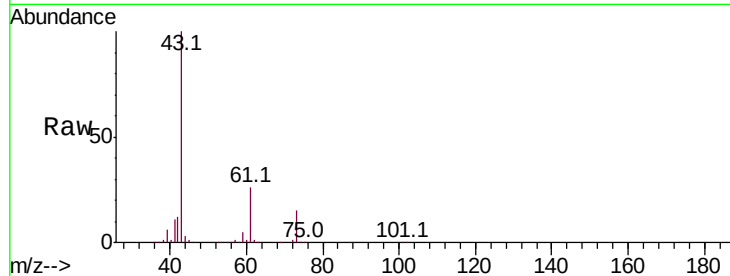
Tot Ion: 88 Resp: 62

Ion Ratio Lower Upper

88 100

43 1938633.9 32.6 49.0#

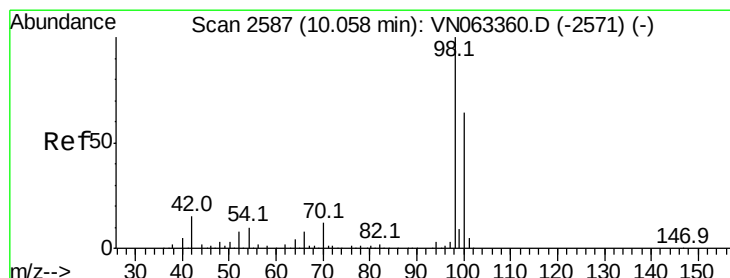
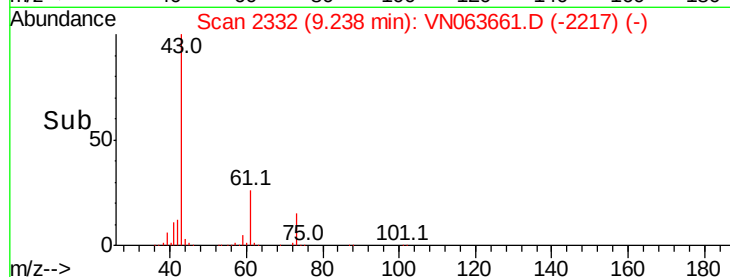
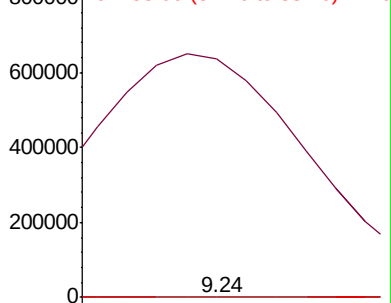
58 9116.1 60.0 90.0#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 49.126 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN063661.D

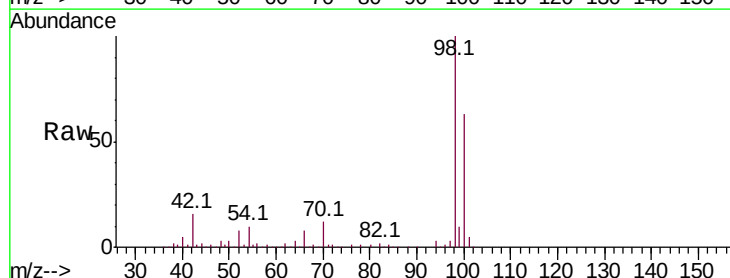
Acq: 25 Sep 2020 5:25

Tgt Ion: 98 Resp: 501724

Ion Ratio Lower Upper

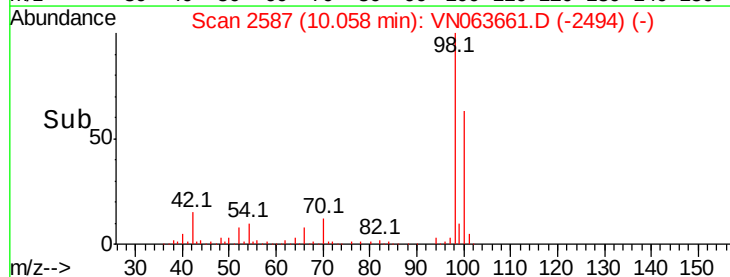
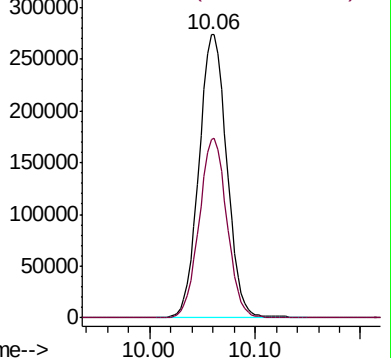
98 100

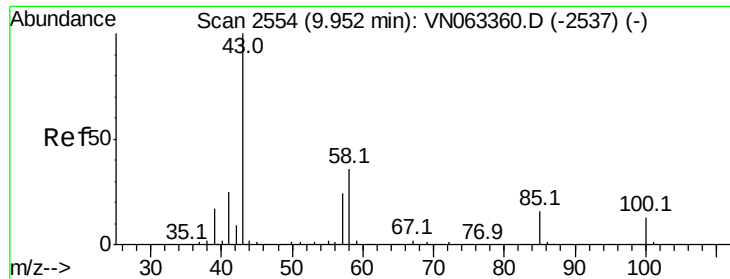
100 63.1 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.206 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

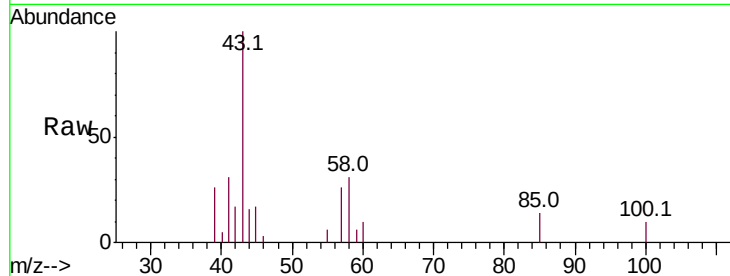
GLOUCESTER-SP

Tot Ion: 43 Resp: 9058

Ion Ratio Lower Upper

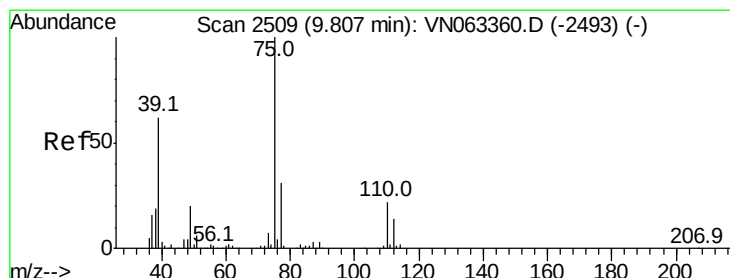
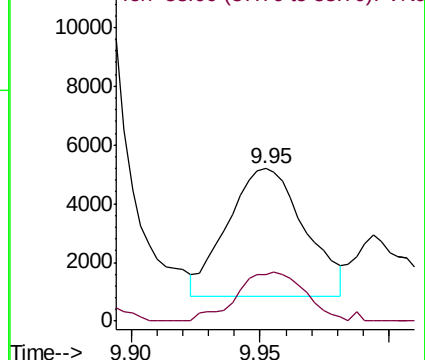
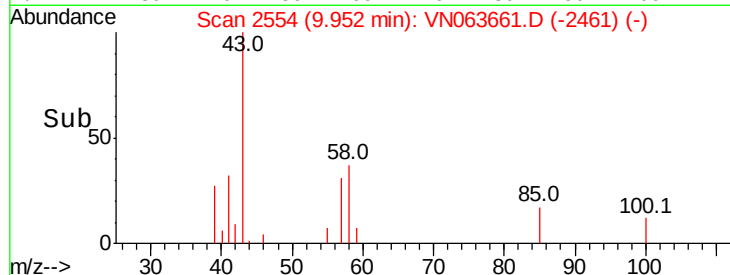
43 100

58 33.9 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN063360.D (-2537) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.081 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

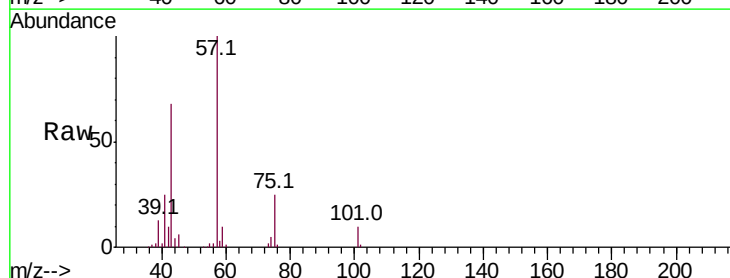
Tgt Ion: 75 Resp: 26549

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

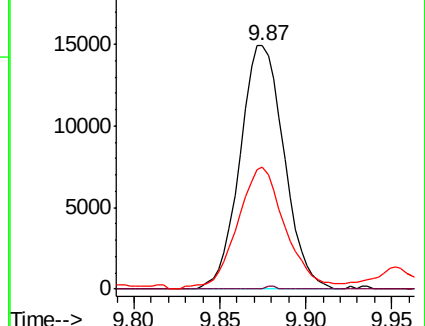
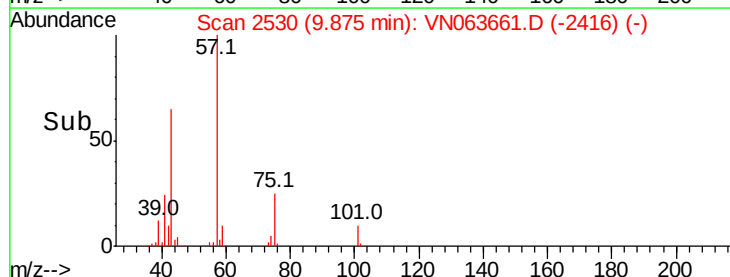
39 48.7 49.8 74.8#

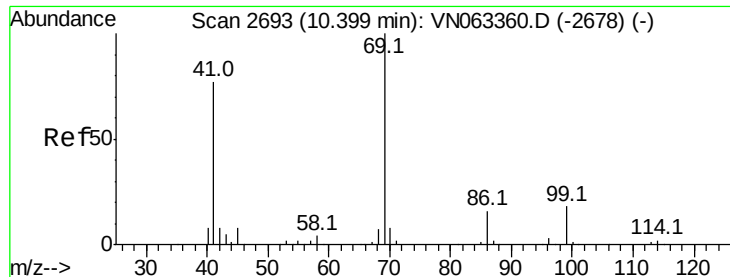


Abundance Ion 74.90 (74.60 to 75.60): VN063360.D (-2493) (-)

Ion 76.90 (76.60 to 77.60): VN063360.D (-2493) (-)

Ion 39.00 (38.70 to 39.70): VN063360.D (-2493) (-)





#56

Ethyl methacrylate

Concen: 0.421 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

GLOUCESTER-SP

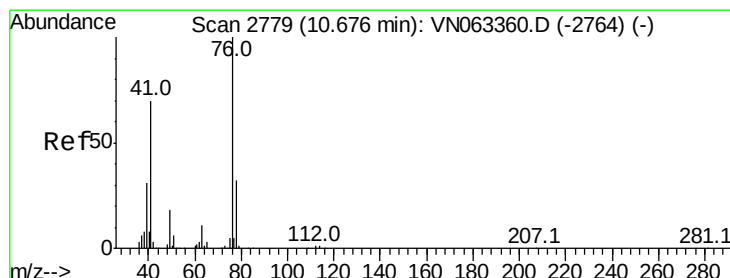
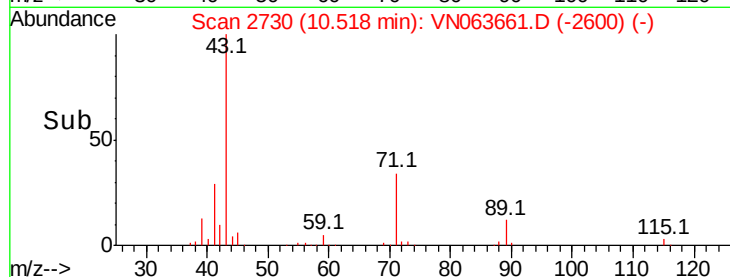
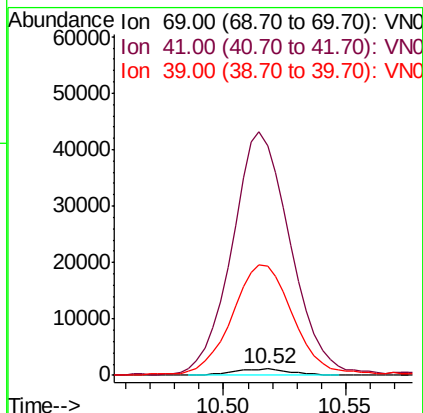
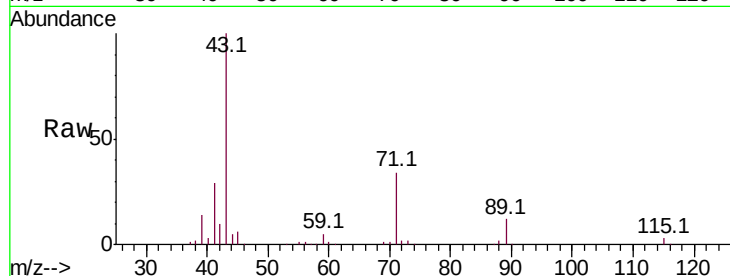
Tot Ion: 69 Resp: 1873

Ion Ratio Lower Upper

69 100

41 3852.9 61.0 91.6#

39 1831.7 39.2 58.8#



#57

1,3-Dichloropropane

Concen: 0.862 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN063661.D

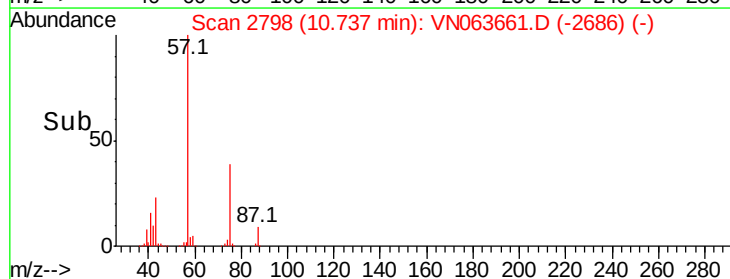
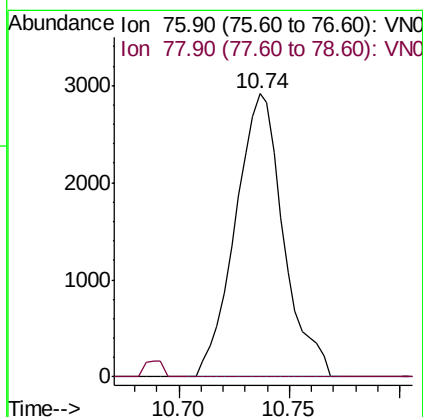
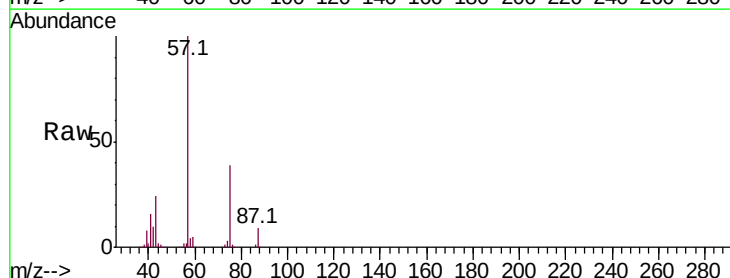
Acq: 25 Sep 2020 5:25

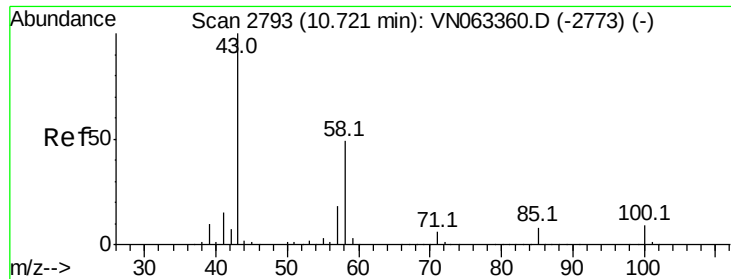
Tgt Ion: 76 Resp: 4429

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 25.227 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

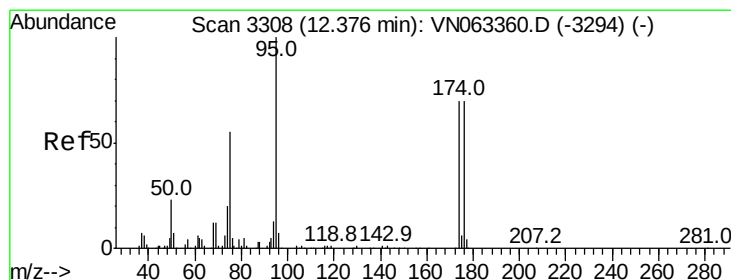
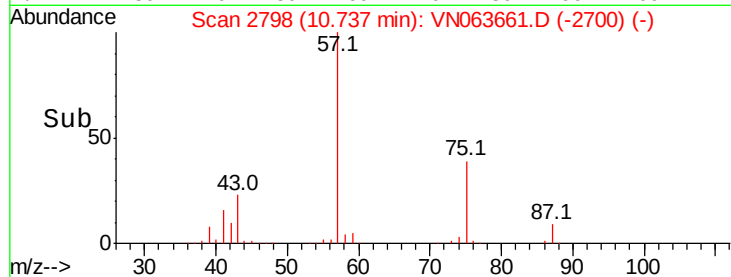
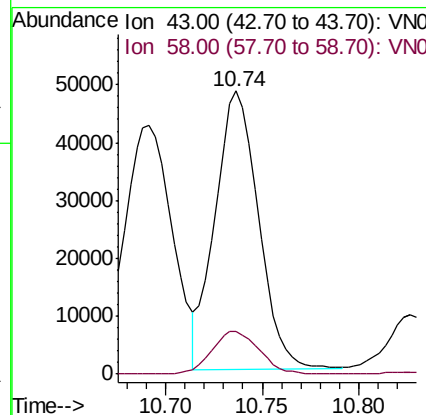
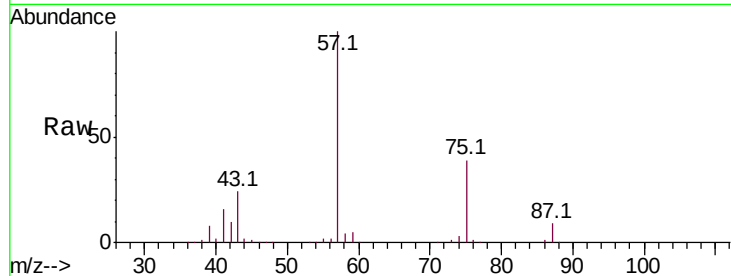
GLOUCESTER-SP

Tot Ion: 43 Resp: 75053

Ion Ratio Lower Upper

43 100

58 16.8 24.7 74.1#



#62

4-Bromofluorobenzene

Concen: 51.537 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.00 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

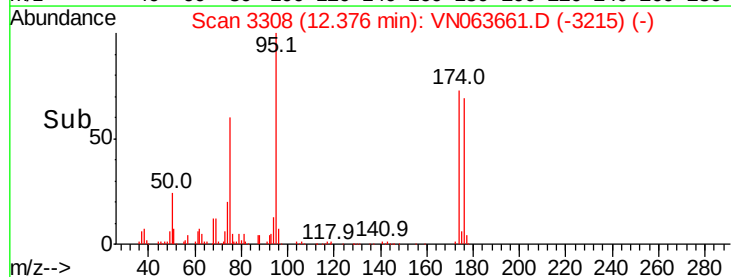
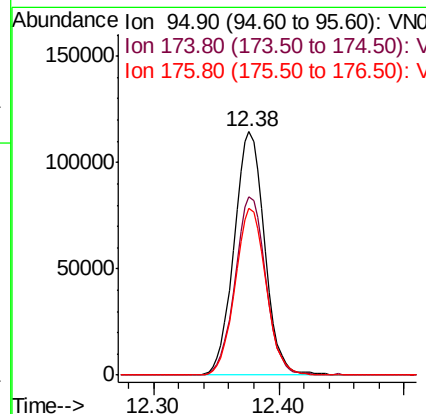
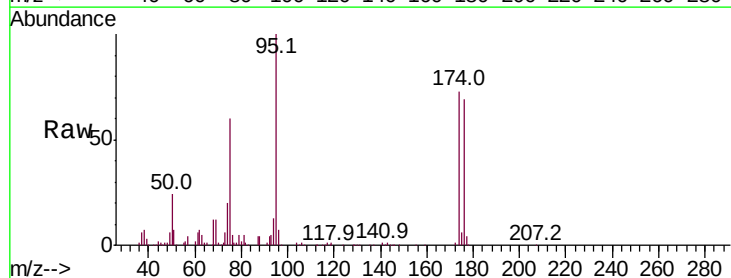
Tgt Ion: 95 Resp: 192946

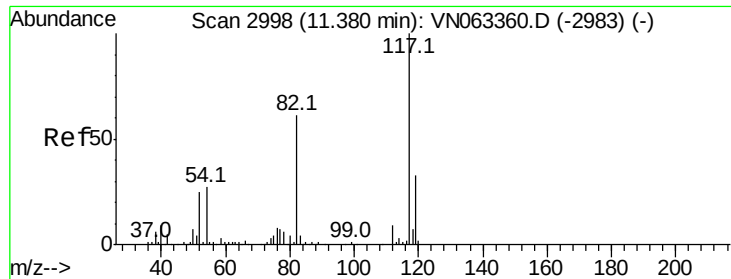
Ion Ratio Lower Upper

95 100

174 73.6 0.0 140.8

176 69.6 0.0 137.6

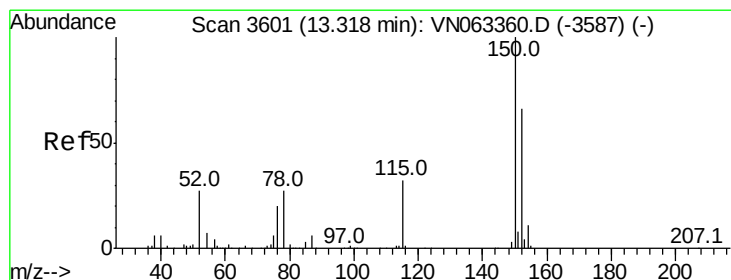
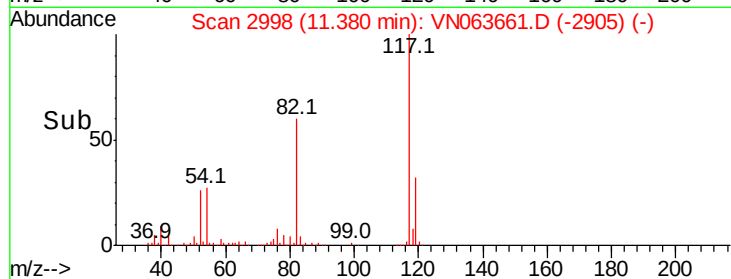
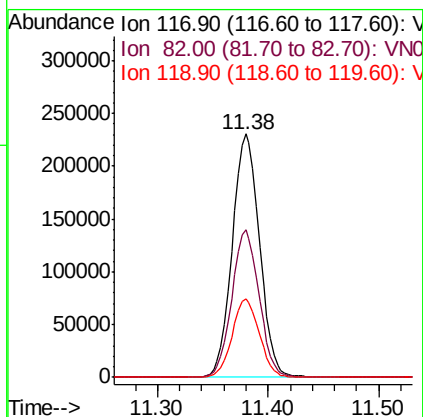
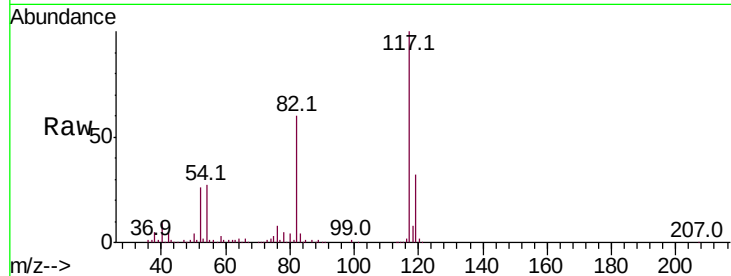




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN063661.D
Acq: 25 Sep 2020 5:25

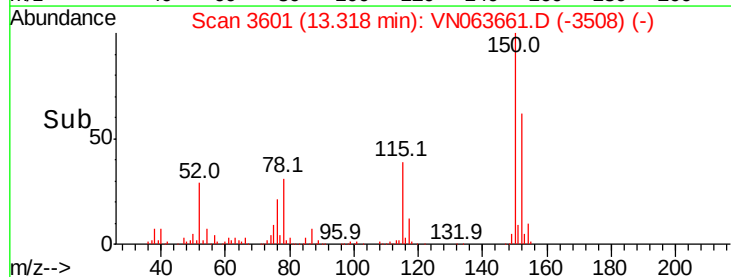
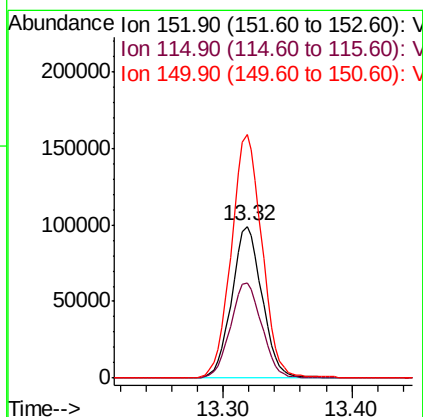
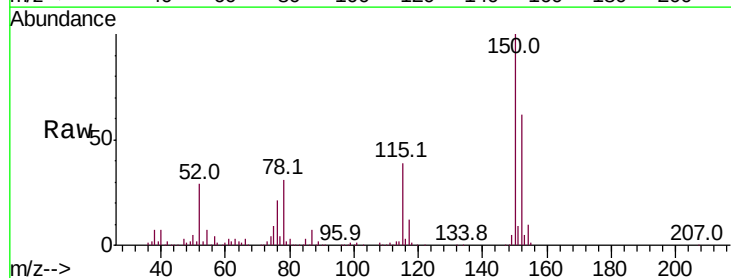
Instrument :
MSVOA_N
ClientSampleId :
GLOUCESTER-SP

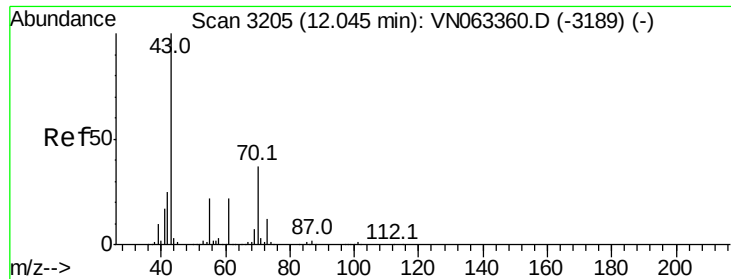
Tot Ion	Ratio	Lower	Upper
117	100		
82	60.5	49.2	73.8
119	32.5	26.2	39.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. -0.00 min
Lab File: VN063661.D
Acq: 25 Sep 2020 5:25

Tgt Ion	Ratio	Lower	Upper
152	100		
115	64.7	32.2	96.6
150	162.3	0.0	343.4





#74

N-amyl acetate

Concen: 0.508 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

GLOUCESTER-SP

Tot Ion: 43 Resp: 3113

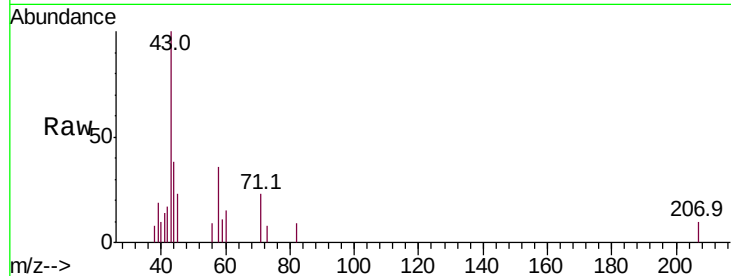
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 4.5 17.7 26.5#

61 0.0 17.4 26.2#

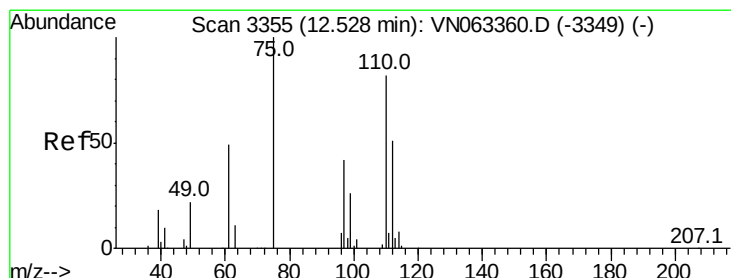
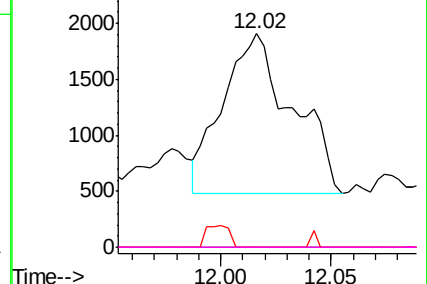
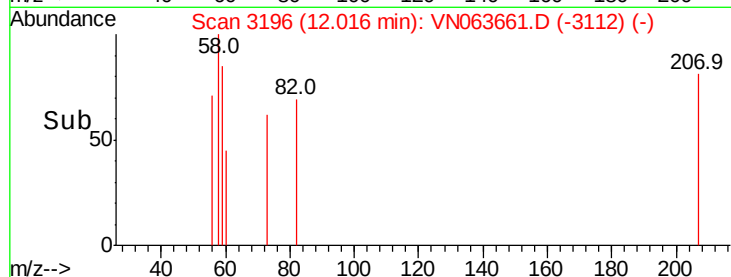


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.454 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063661.D

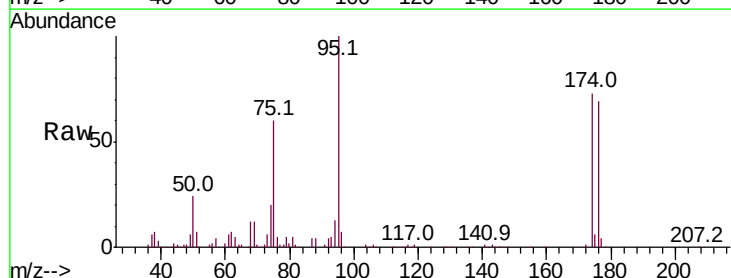
Acq: 25 Sep 2020 5:25

Tgt Ion: 75 Resp: 113752

Ion Ratio Lower Upper

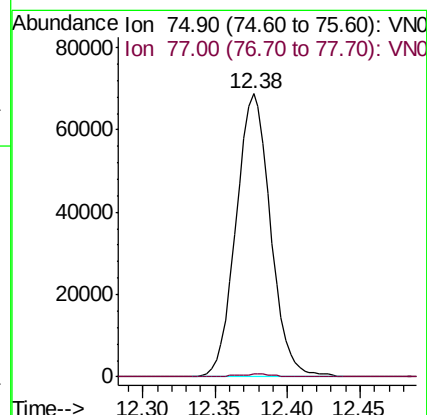
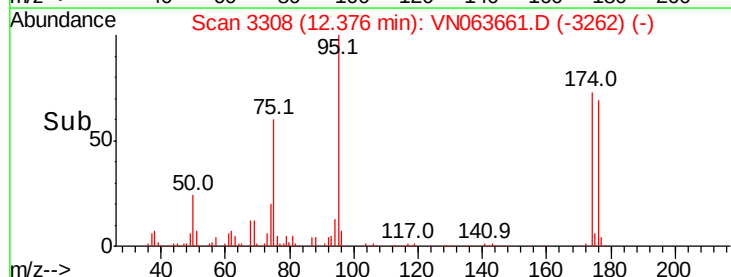
75 100

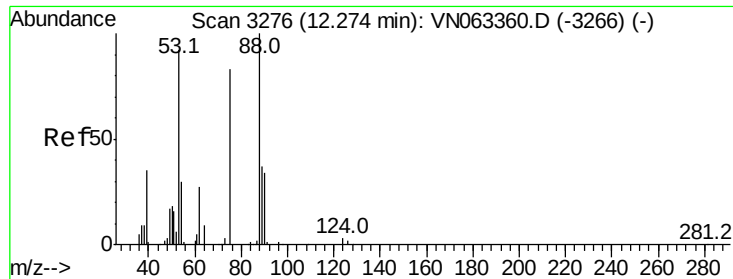
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 78.011 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN063661.D

Acq: 25 Sep 2020 5:25

Instrument :

MSVOA_N

ClientSampleId :

GLOUCESTER-SP

Tot Ion: 75 Resp: 113752

Ion Ratio Lower Upper

75 100

53 0.1 85.7 128.5#

89 0.0 38.0 57.0#

