

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081920\
 Data File : VN063005.D
 Acq On : 19 Aug 2020 11:40
 Operator : JC/MD
 Sample : L3722-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 GW-02

Quant Time: Aug 19 13:40:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N081820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 19 06:09:27 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	154788	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	255922	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	263895	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	96616	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	101416	55.28	ug/l	0.00
Spiked Amount			Recovery	=	110.56%	
35) Dibromofluoromethane	7.55	113	87124	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
50) Toluene-d8	10.06	98	327976	51.20	ug/l	0.00
Spiked Amount			Recovery	=	102.40%	
62) 4-Bromofluorobenzene	12.38	95	111778	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	

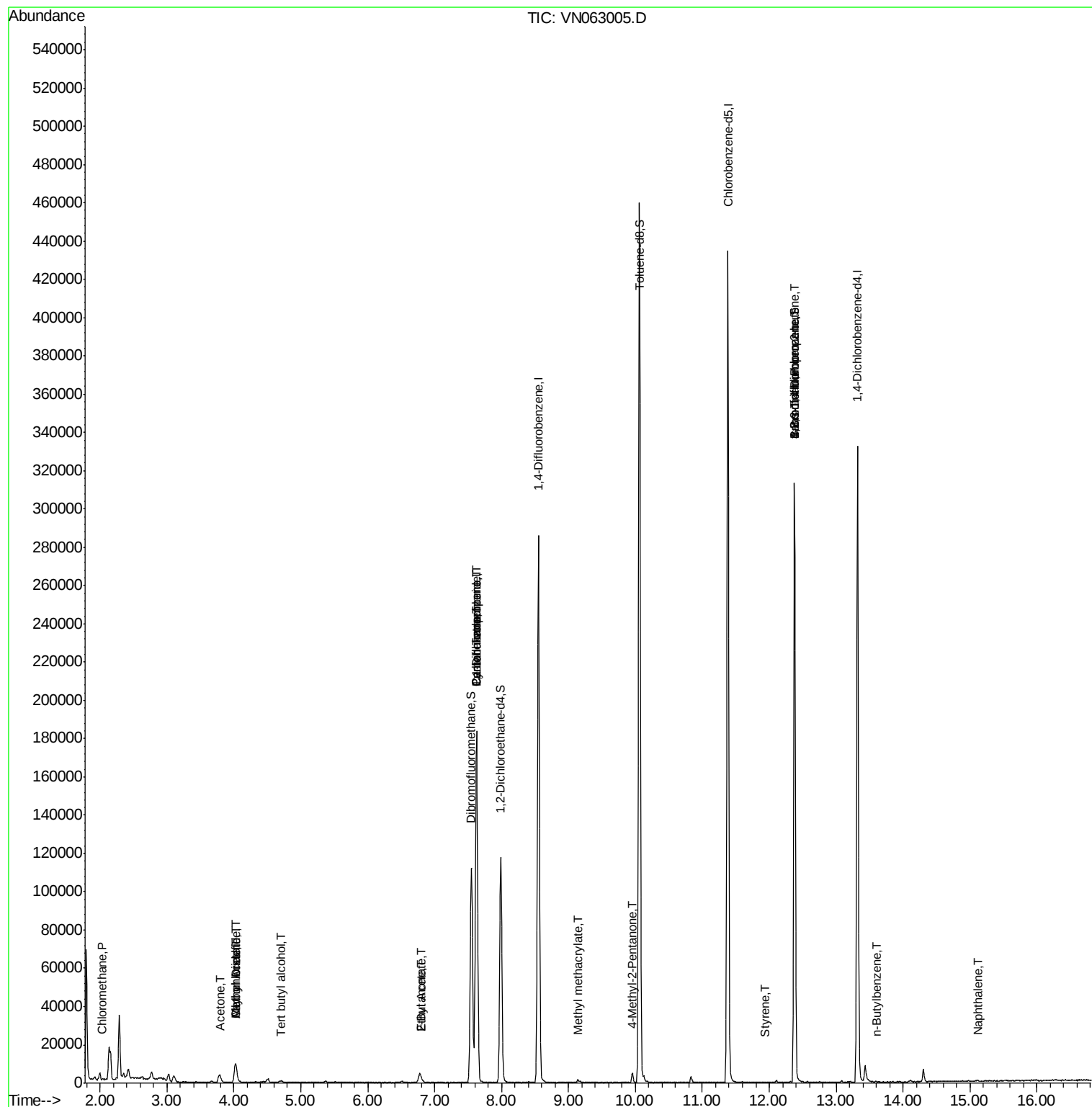
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	785	0.370	ug/l	95
11) Tert butyl alcohol	4.70	59	901	3.467	ug/l #	74
14) Allyl chloride	4.01	41	1367	0.590	ug/l #	1
16) Acetone	3.79	43	7953	10.138	ug/l	96
17) Carbon Disulfide	4.01	76	4233	1.230	ug/l #	76
18) Methyl Acetate	4.02	43	4283	2.349	ug/l #	52
20) Methylene Chloride	4.50	84	940	Below Cal	#	79
25) 2-Butanone	6.81	43	1993	2.046	ug/l #	48
31) Cyclohexane	7.63	56	2969	1.098	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11345	5.030	ug/l #	49
37) Ethyl Acetate	6.81	43	1993	0.943	ug/l #	68
38) Carbon Tetrachloride	7.63	117	13745	6.037	ug/l #	17
48) Methyl methacrylate	9.14	41	483	0.292	ug/l #	21
51) 4-Methyl-2-Pentanone	9.96	43	4012	1.813	ug/l	90
70) Styrene	11.94	104	241	1.960	ug/l #	26
71) Bromoform	12.38	173	1016	0.619	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	53073	28.260	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	53073	77.616	ug/l #	15
89) n-Butylbenzene	13.60	91	265	2.818	ug/l #	34
95) Naphthalene	15.12	128	564	5.772	ug/l #	69

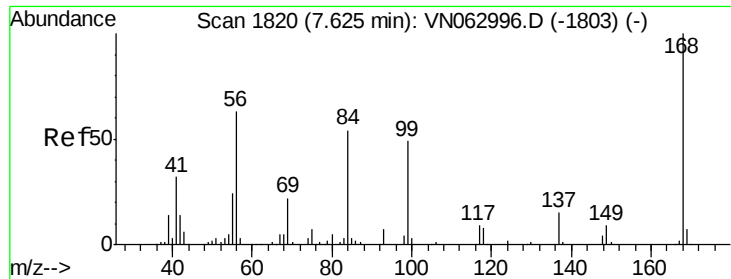
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

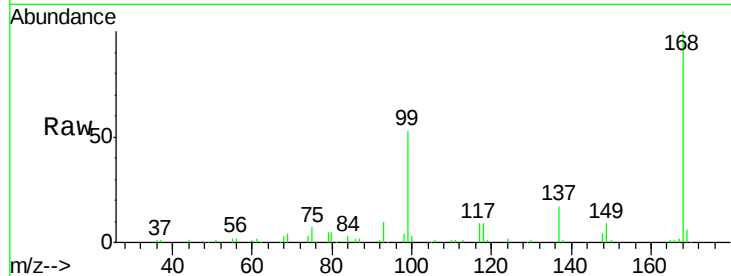
GW-02

Tgt Ion: 168 Resp: 154788

Ion Ratio Lower Upper

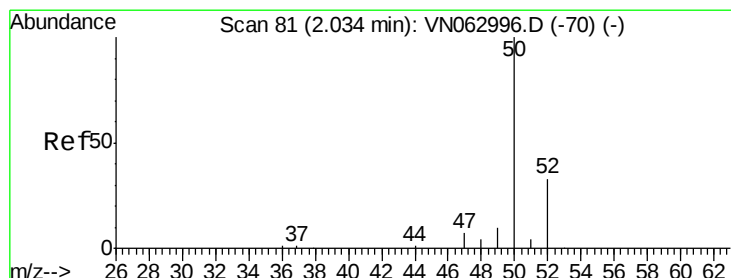
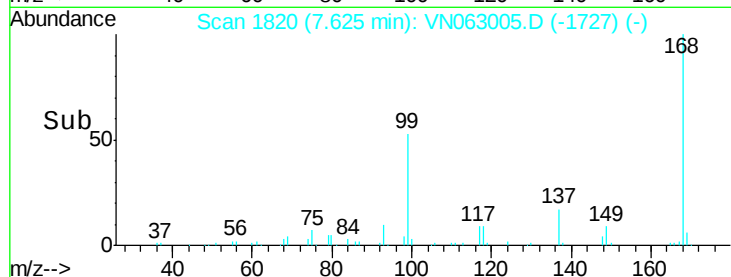
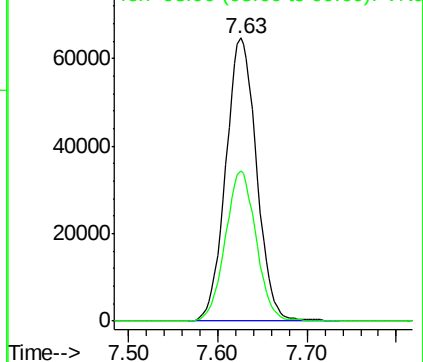
168 100

99 53.2 42.0 63.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#3

Chloromethane

Concen: 0.370 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN063005.D

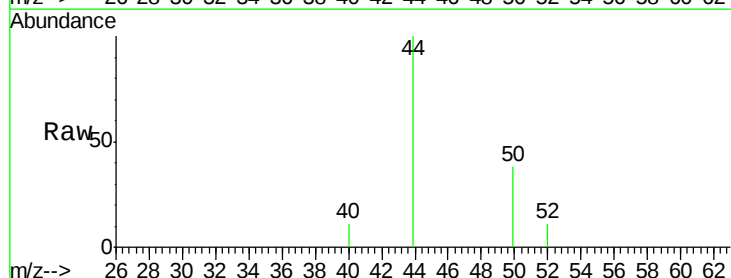
Acq: 19 Aug 2020 11:40

Tgt Ion: 50 Resp: 785

Ion Ratio Lower Upper

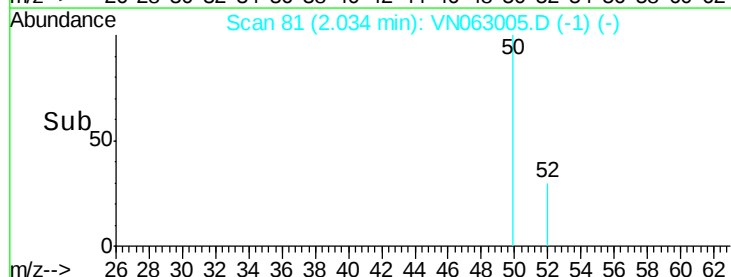
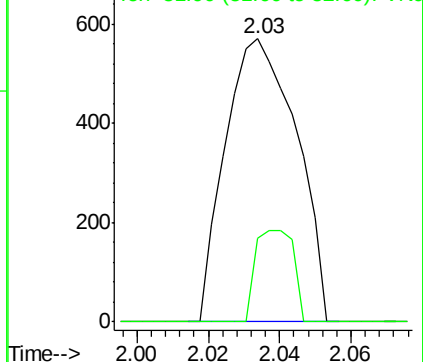
50 100

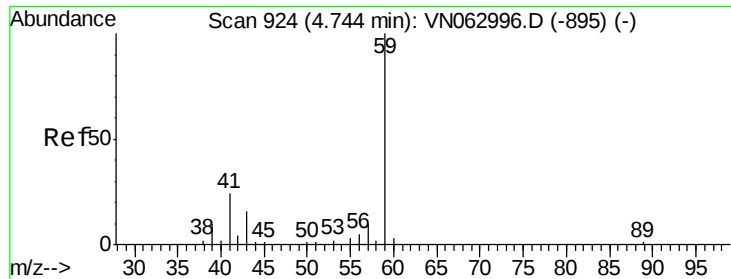
52 29.6 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

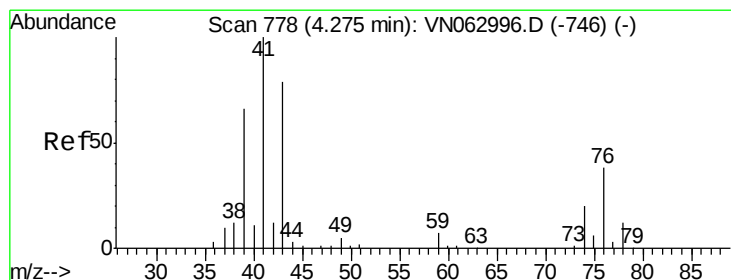
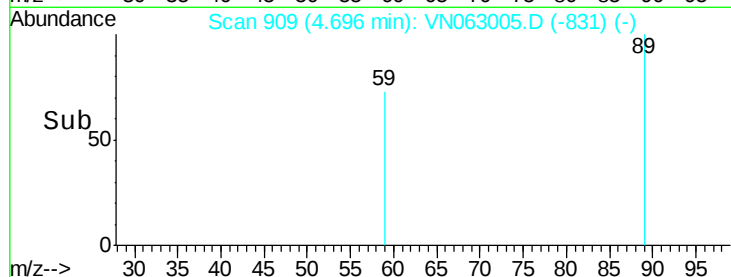
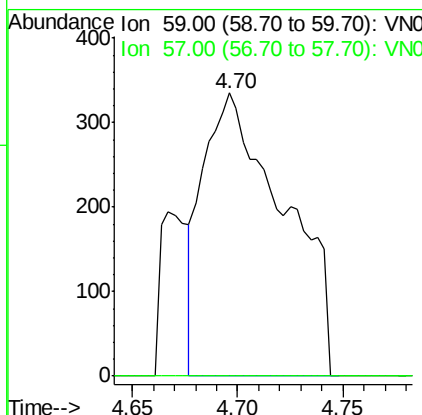
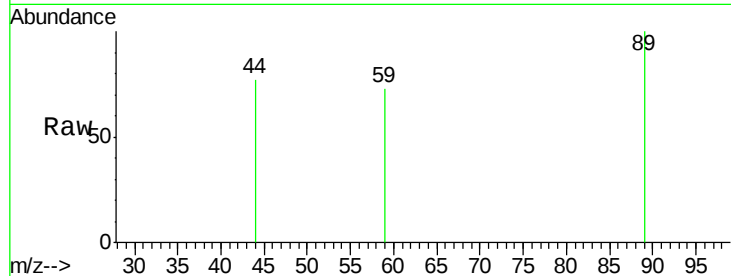




#11
Tert butyl alcohol
Concen: 3.467 ug/l
RT: 4.70 min Scan# 909
Delta R.T. -0.05 min
Lab File: VN063005.D
Acq: 19 Aug 2020 11:40

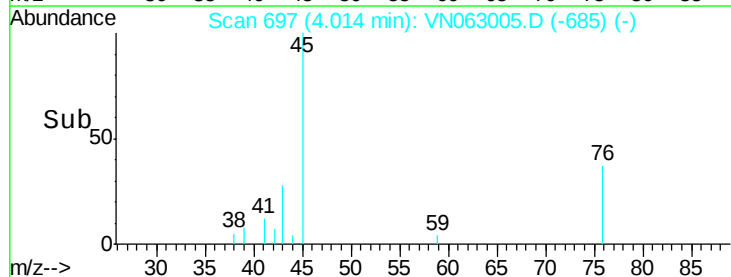
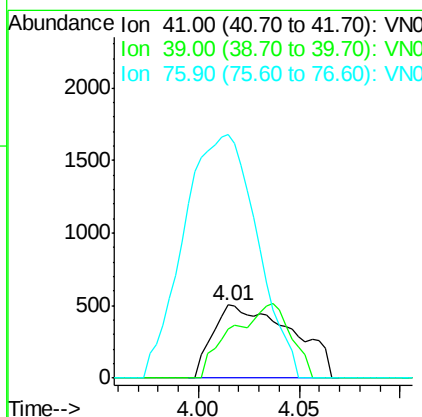
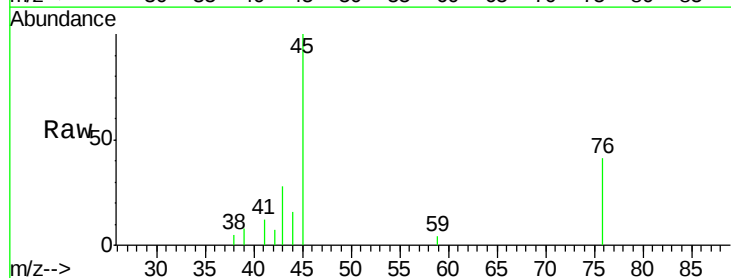
Instrument :
MSVOA_N
ClientSampleId :
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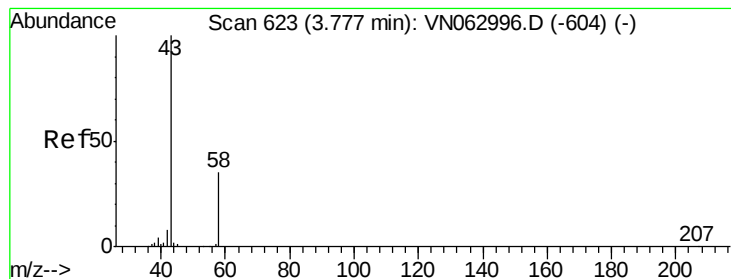
Tgt Ion: 59 Resp: 901
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.6#



#14
Allyl chloride
Concen: 0.590 ug/l
RT: 4.01 min Scan# 697
Delta R.T. -0.26 min
Lab File: VN063005.D
Acq: 19 Aug 2020 11:40

Tgt Ion: 41 Resp: 1367
Ion Ratio Lower Upper
41 100
39 0.0 47.9 71.9#
76 298.8 27.0 40.6#





#16

Acetone

Concen: 10.138 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

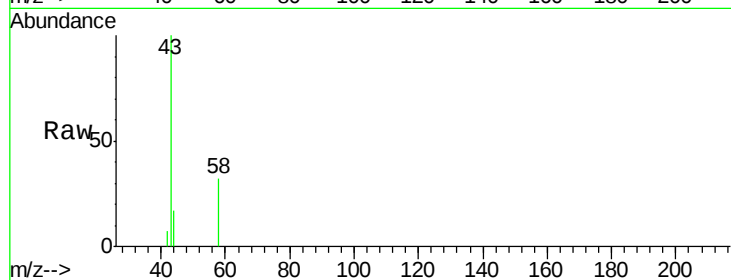
GW-02

Tgt Ion: 43 Resp: 7953

Ion Ratio Lower Upper

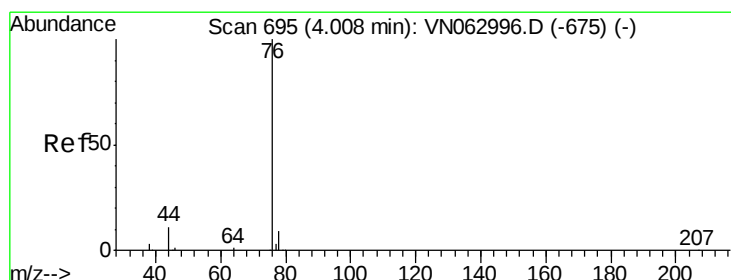
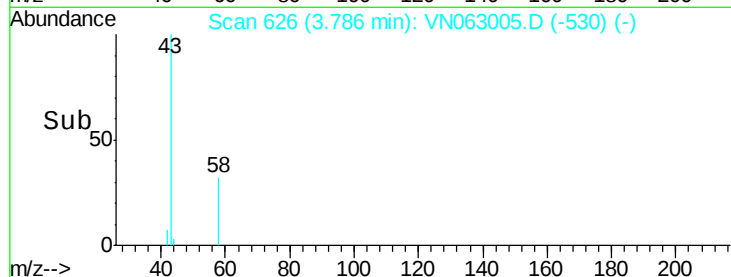
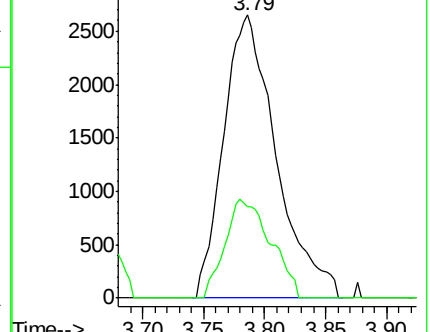
43 100

58 32.4 27.8 41.6



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-604) (-)



#17

Carbon Disulfide

Concen: 1.230 ug/l

RT: 4.01 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN063005.D

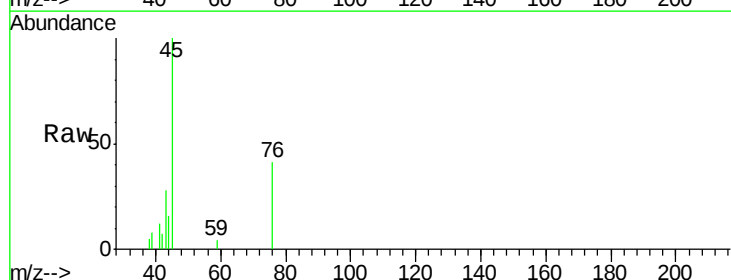
Acq: 19 Aug 2020 11:40

Tgt Ion: 76 Resp: 4233

Ion Ratio Lower Upper

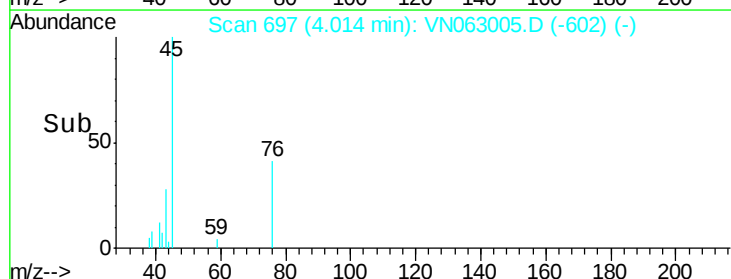
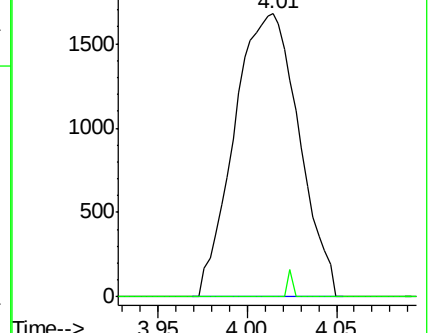
76 100

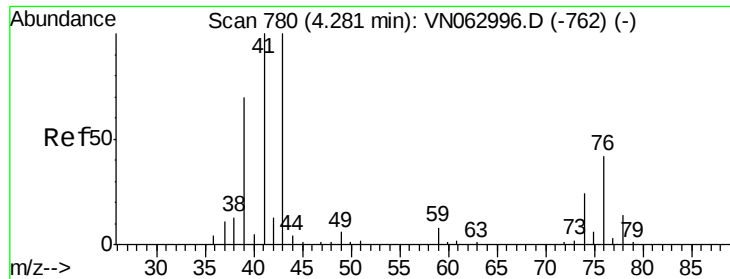
78 0.0 6.9 10.3#



Abundance Ion 75.90 (75.60 to 76.60): VN062996.D (-675) (-)

Ion 77.90 (77.60 to 78.60): VN062996.D (-675) (-)

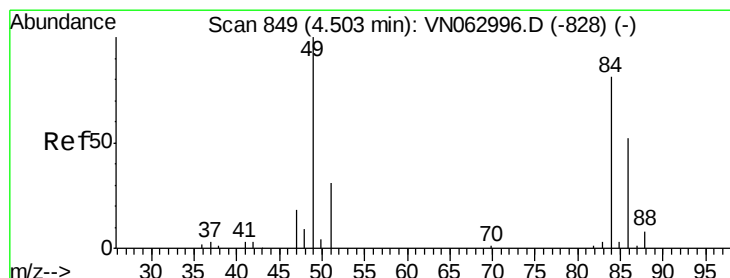
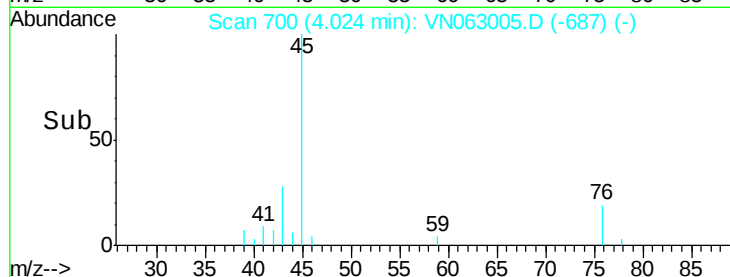
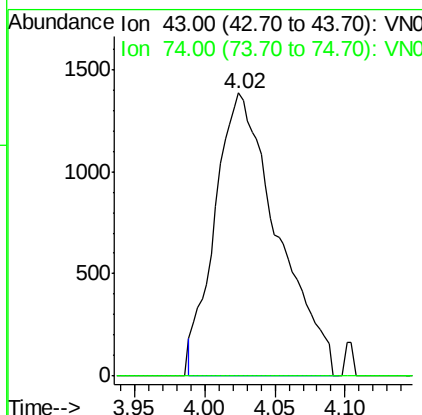
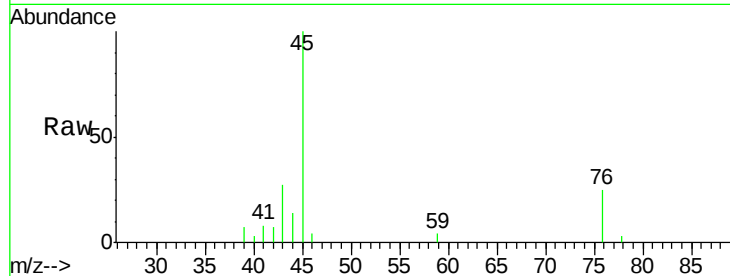




#18
Methyl Acetate
Concen: 2.349 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.26 min
Lab File: VN063005.D
Acq: 19 Aug 2020 11:40

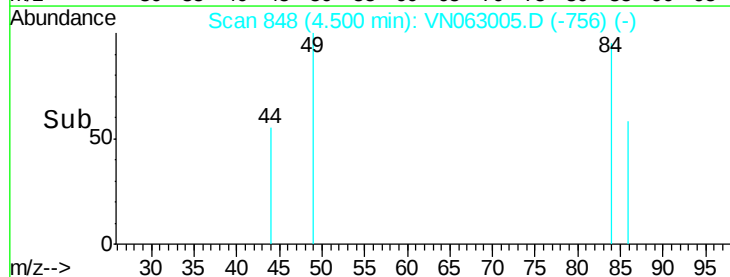
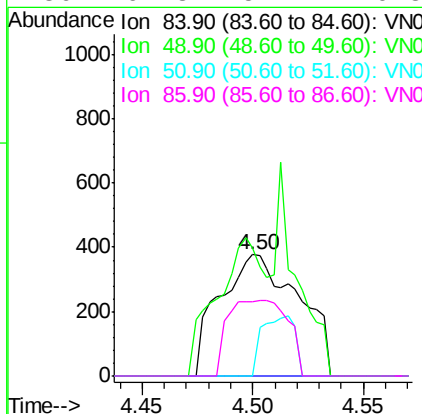
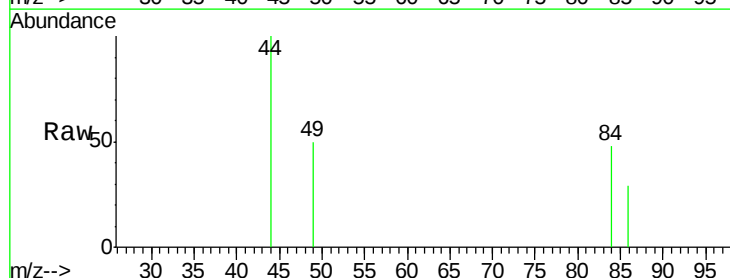
Instrument :
MSVOA_N
ClientSampled :
GW-02

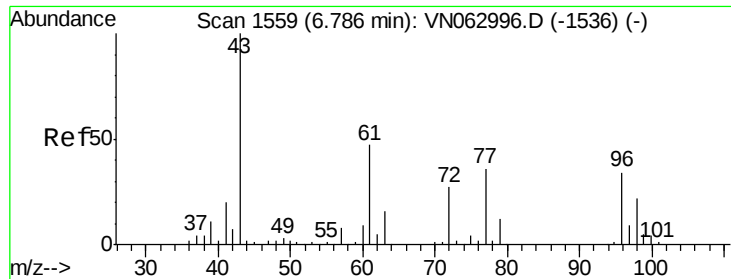
Tgt Ion: 43 Resp: 4283
Ion Ratio Lower Upper
43 100
74 0.0 18.6 28.0#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN063005.D
Acq: 19 Aug 2020 11:40

Tgt Ion: 84 Resp: 940
Ion Ratio Lower Upper
84 100
49 105.0 98.7 148.1
51 0.0 30.8 46.2#
86 61.3 51.2 76.8

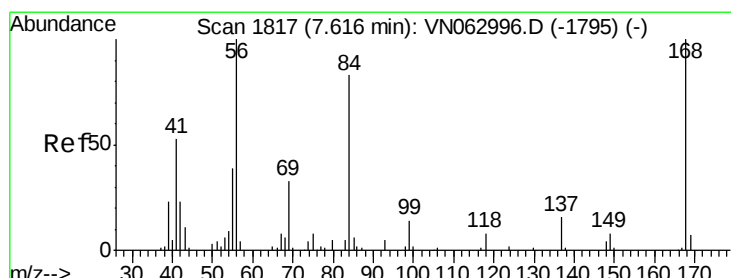
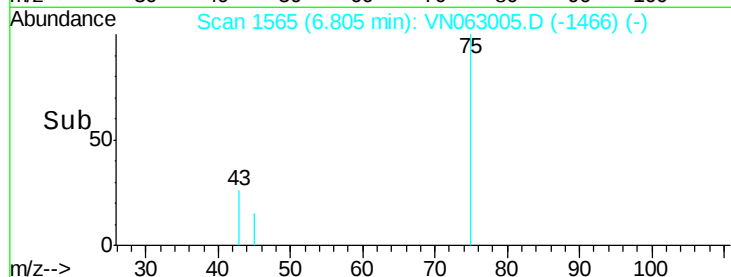
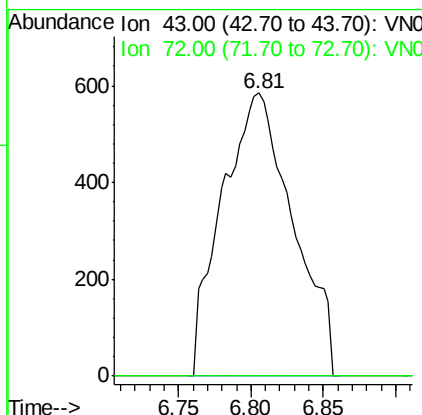
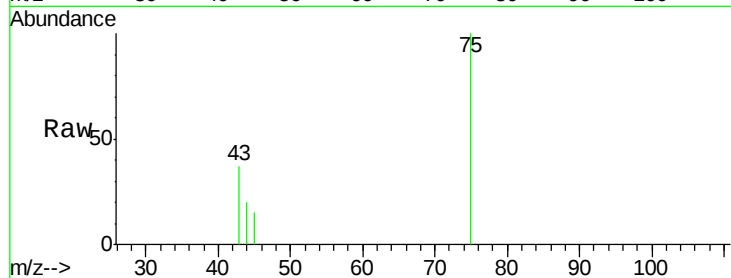




#25
2-Butanone
Concen: 2.046 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.02 min
Lab File: VN063005.D
Acq: 19 Aug 2020 11:40

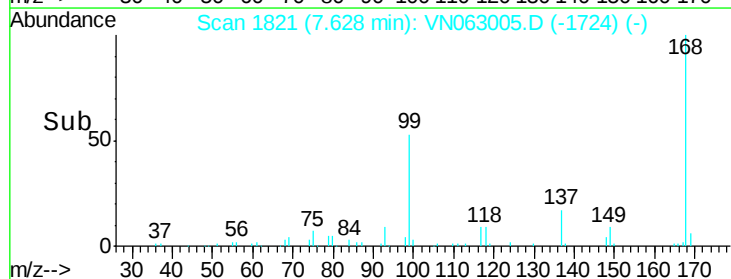
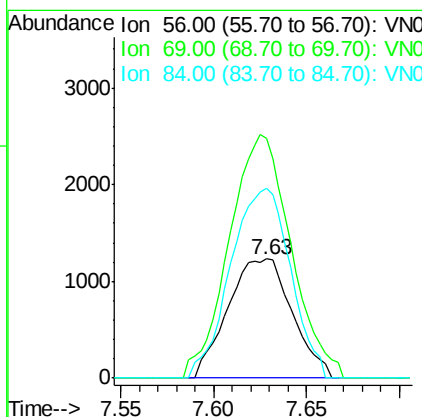
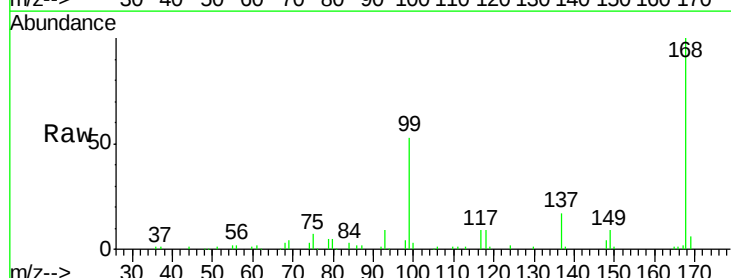
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ClientSampled :
GW-02

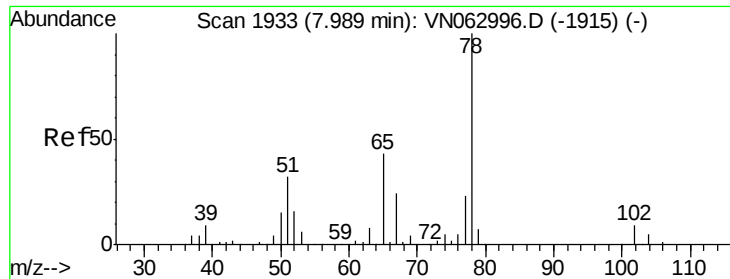
Tgt Ion: 43 Resp: 1993
Ion Ratio Lower Upper
43 100
72 0.0 21.8 32.6#



#31
Cyclohexane
Concen: 1.098 ug/l
RT: 7.63 min Scan# 1821
Delta R.T. 0.01 min
Lab File: VN063005.D
Acq: 19 Aug 2020 11:40

Tgt Ion: 56 Resp: 2969
Ion Ratio Lower Upper
56 100
69 187.8 26.6 40.0#
84 158.8 66.4 99.6#

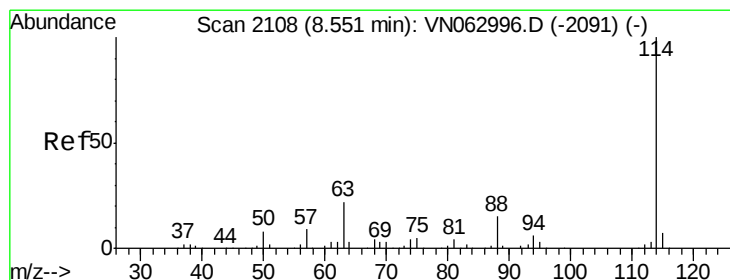
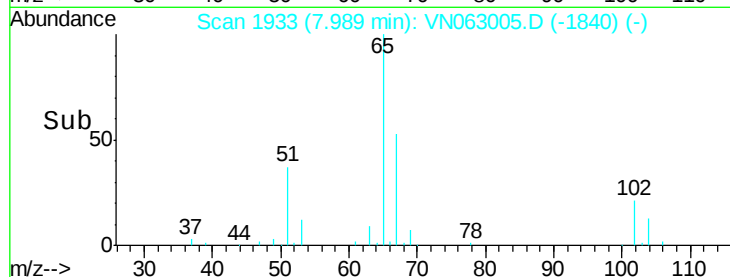
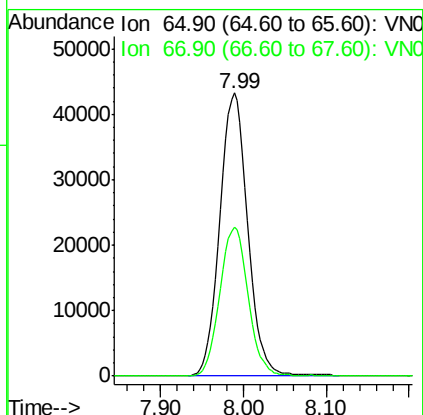
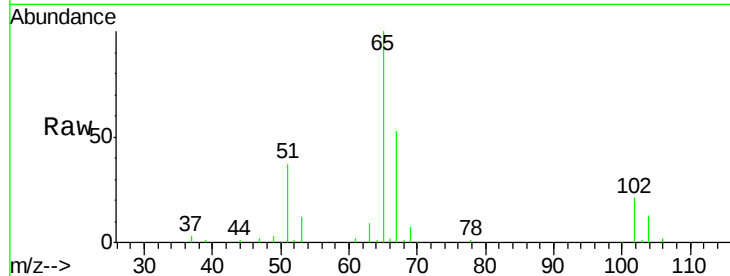




#33
 1,2-Dichloroethane-d4
 Concen: 55.282 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN063005.D
 Acq: 19 Aug 2020 11:40

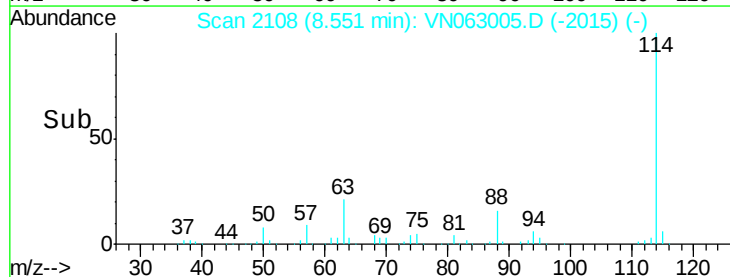
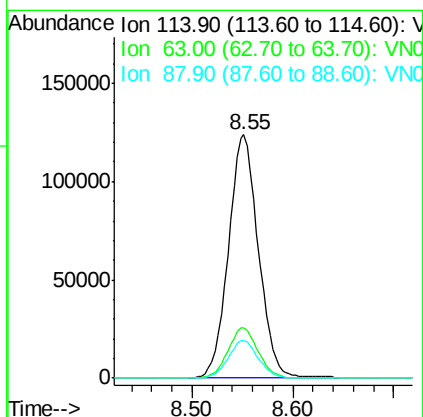
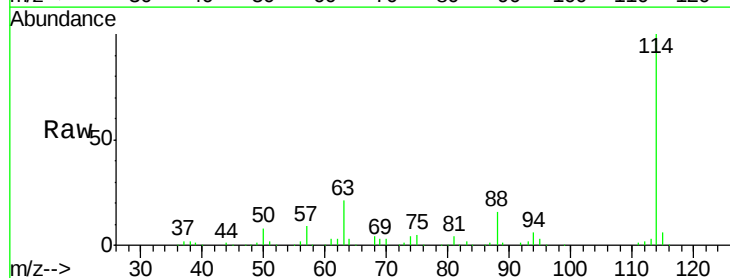
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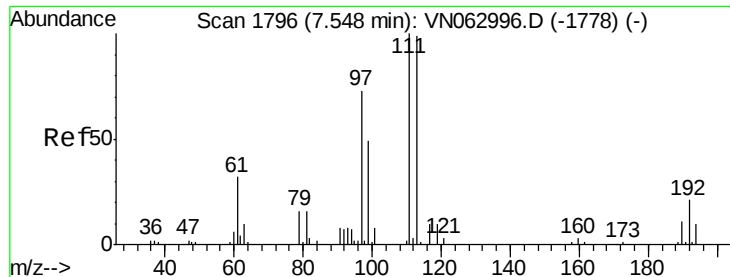
Tgt Ion: 65 Resp: 101416
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN063005.D
 Acq: 19 Aug 2020 11:40

Tgt Ion: 114 Resp: 255922
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 43.2
 88 15.5 0.0 30.6

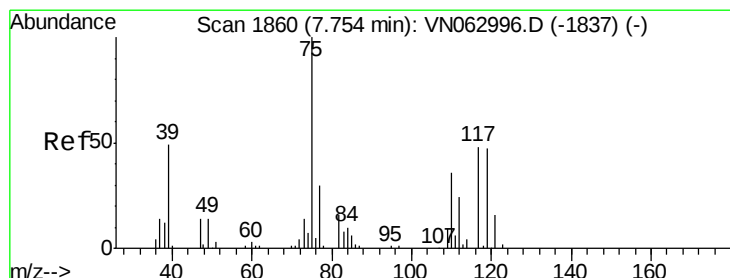
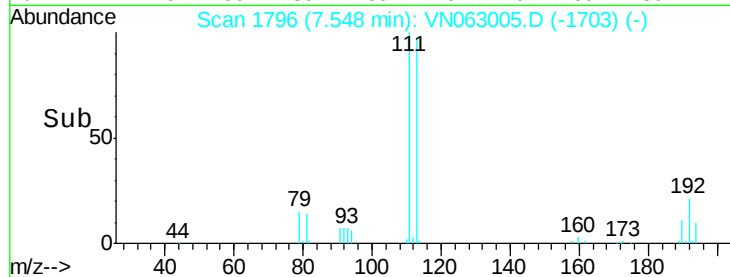
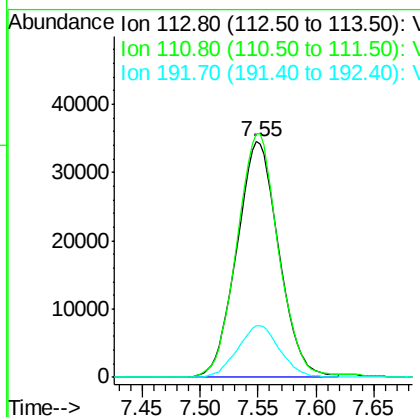
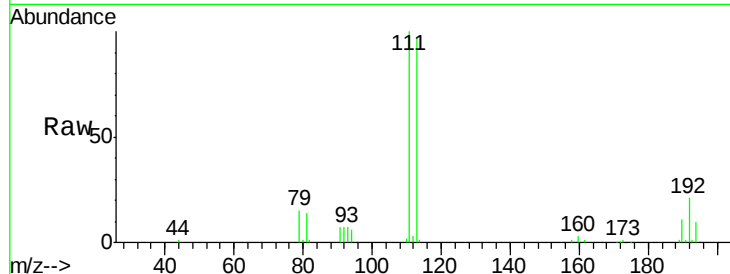




#35
 Dibromofluoromethane
 Concen: 52.246 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN063005.D
 Acq: 19 Aug 2020 11:40

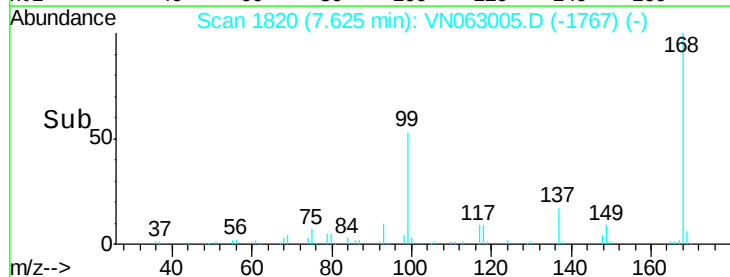
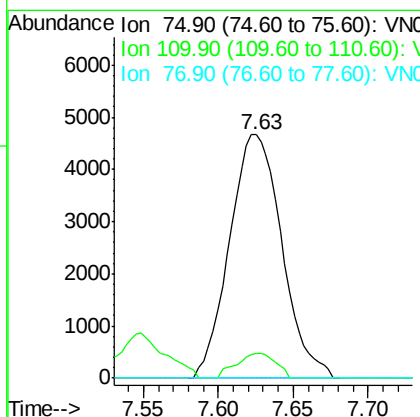
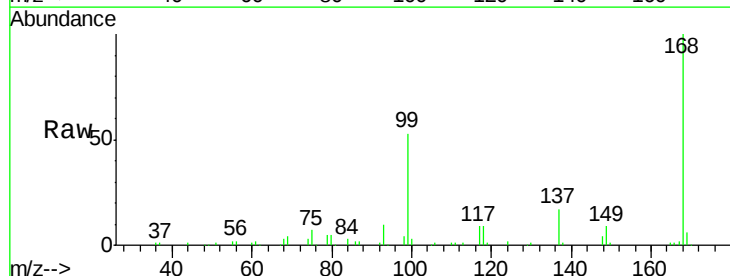
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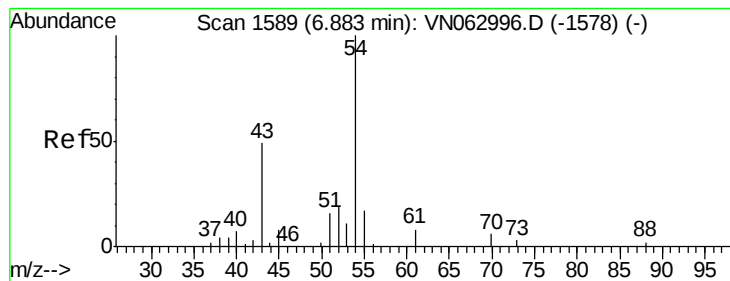
Tgt Ion: 113 Resp: 87124
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.7 122.5
 192 22.0 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 5.030 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN063005.D
 Acq: 19 Aug 2020 11:40

Tgt Ion: 75 Resp: 11345
 Ion Ratio Lower Upper
 75 100
 110 7.6 17.5 52.6#
 77 0.0 24.2 36.4#





#37

Ethyl Acetate

Concen: 0.943 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. -0.08 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

Instrument :

MSVOA_N

ClientSampleId :

GW-02

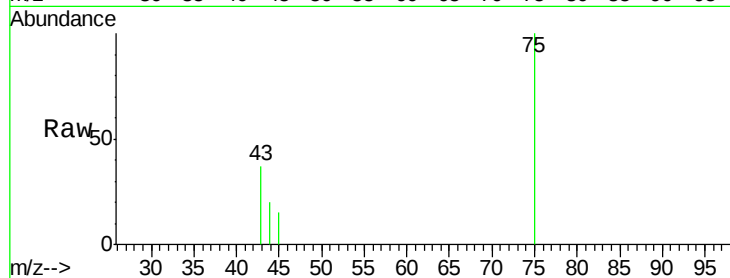
Tgt Ion: 43 Resp: 1993

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.8#

70 0.0 8.2 12.2#



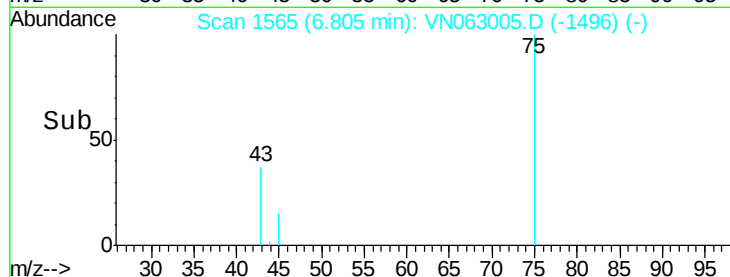
Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-1578) (-)

Ion 60.90 (60.60 to 61.60): VN062996.D (-1578) (-)

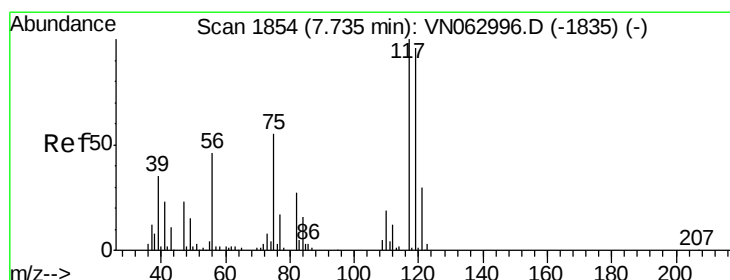
Ion 70.00 (69.70 to 70.70): VN062996.D (-1578) (-)

6.81

6.75 6.80 6.85



Time-->



#38

Carbon Tetrachloride

Concen: 6.037 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

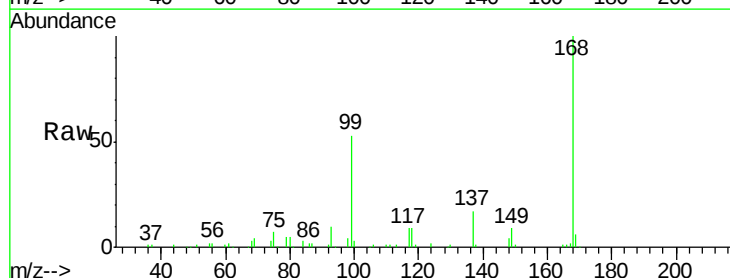
Tgt Ion: 117 Resp: 13745

Ion Ratio Lower Upper

117 100

119 6.5 76.2 114.4#

121 0.0 24.2 36.2#



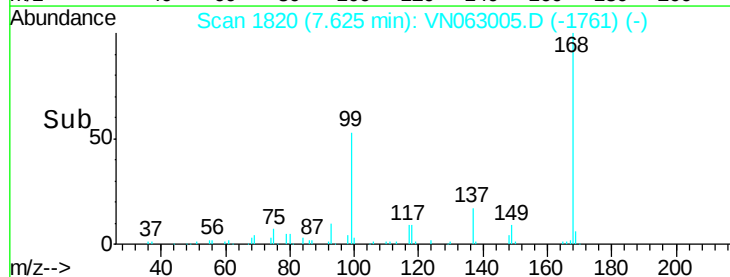
Abundance Ion 116.80 (116.50 to 117.50): VN062996.D (-1835) (-)

Ion 118.80 (118.50 to 119.50): VN062996.D (-1835) (-)

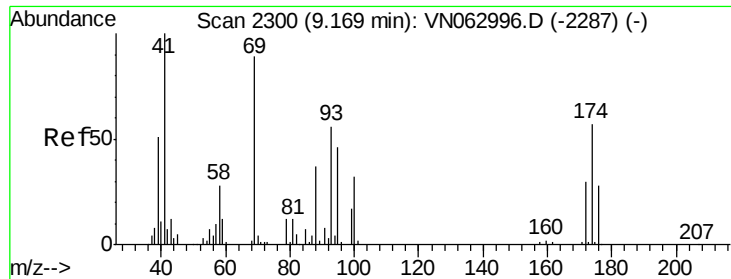
Ion 120.80 (120.50 to 121.50): VN062996.D (-1835) (-)

7.63

7.55 7.60 7.65 7.70



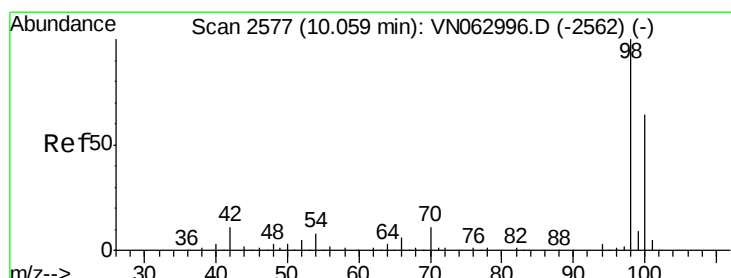
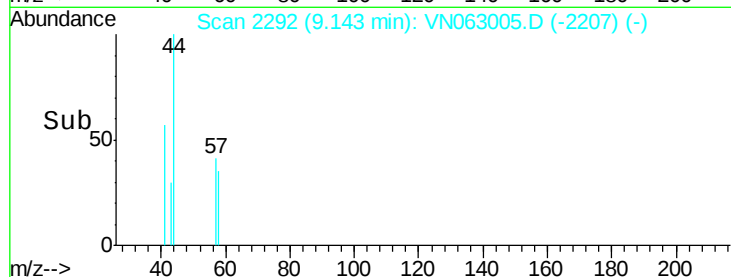
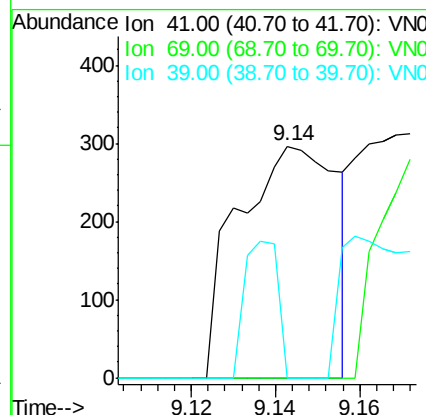
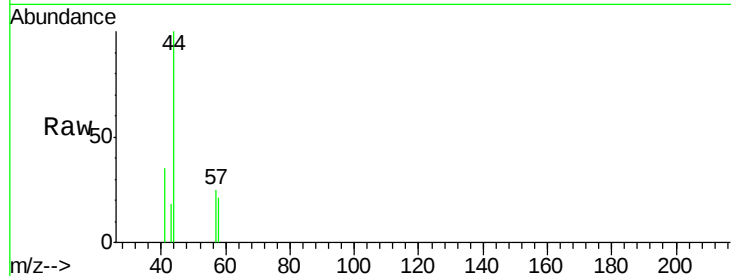
Time-->



#48
Methyl methacrylate
Concen: 0.292 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.03 min
Lab File: VN063005.D
Acq: 19 Aug 2020 11:40

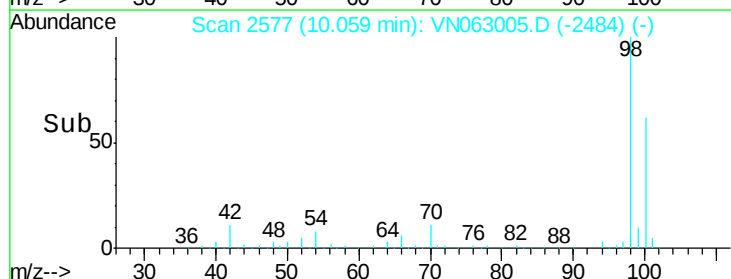
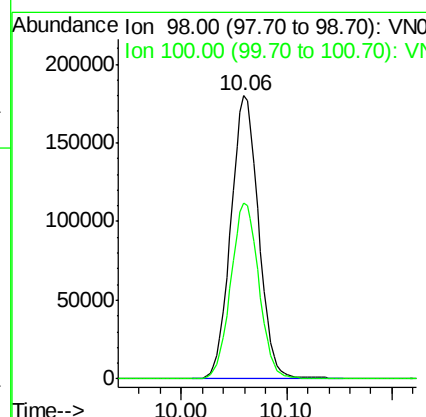
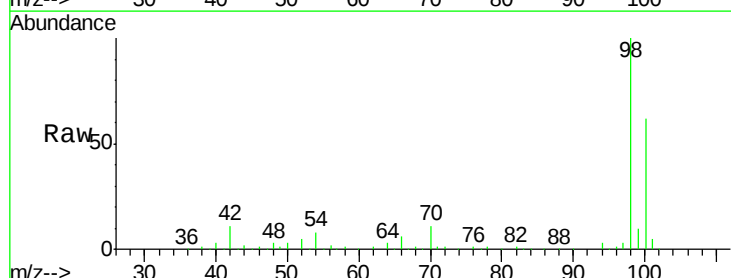
Instrument :
MSVOA_N
ClientSampled :
GW-02

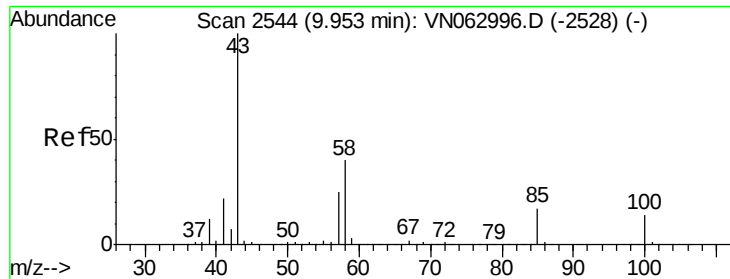
Tgt Ion: 41 Resp: 483
Ion Ratio Lower Upper
41 100
69 0.0 74.2 111.4#
39 20.1 42.5 63.7#



#50
Toluene-d8
Concen: 51.204 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN063005.D
Acq: 19 Aug 2020 11:40

Tgt Ion: 98 Resp: 327976
Ion Ratio Lower Upper
98 100
100 62.9 51.2 76.8





#51

4-Methyl-2-Pentanone

Concen: 1.813 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

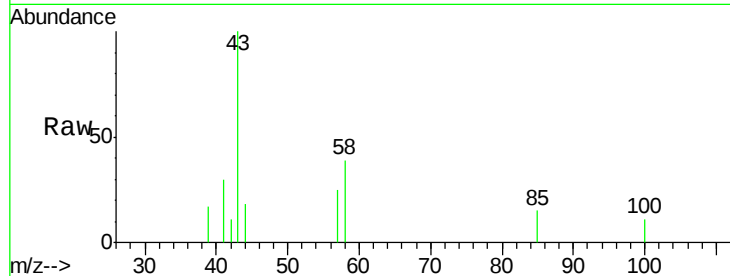
GW-02

Tgt Ion: 43 Resp: 4012

Ion Ratio Lower Upper

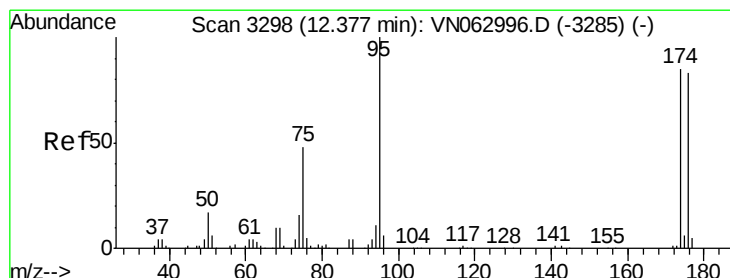
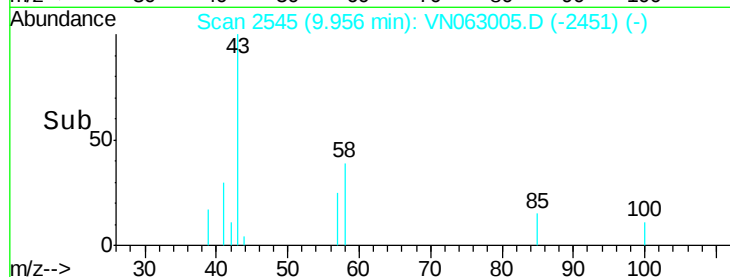
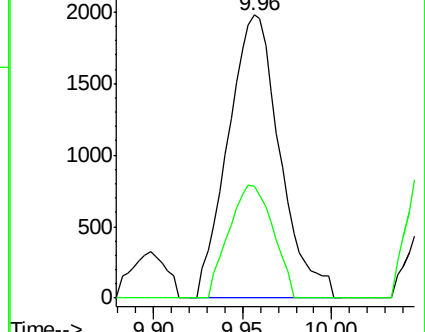
43 100

58 34.0 32.2 48.2



Abundance Ion 43.00 (42.70 to 43.70): VN062996.D (-2528) (-)

Ion 58.00 (57.70 to 58.70): VN062996.D (-2528) (-)



#62

4-Bromofluorobenzene

Concen: 49.452 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

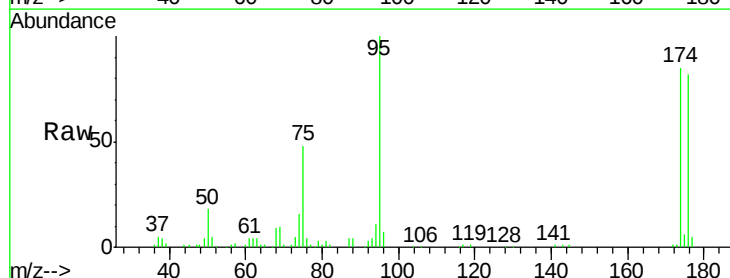
Tgt Ion: 95 Resp: 111778

Ion Ratio Lower Upper

95 100

174 85.6 0.0 170.8

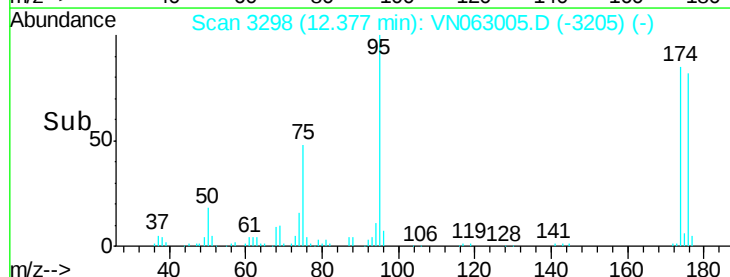
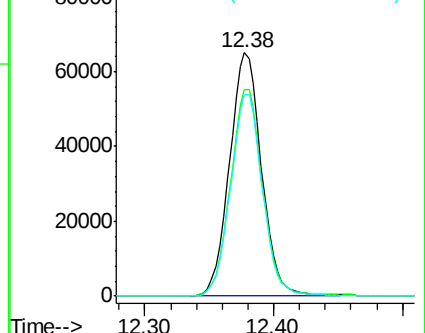
176 82.8 0.0 164.8

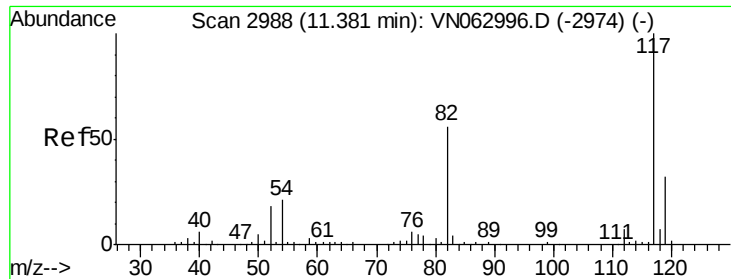


Abundance Ion 94.90 (94.60 to 95.60): VN062996.D (-3285) (-)

Ion 173.80 (173.50 to 174.50): VN062996.D (-3285) (-)

Ion 175.80 (175.50 to 176.50): VN062996.D (-3285) (-)





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

GW-02

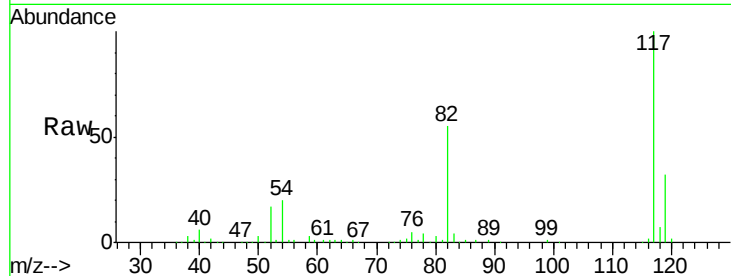
Tgt Ion:117 Resp: 263895

Ion Ratio Lower Upper

117 100

82 55.0 44.5 66.7

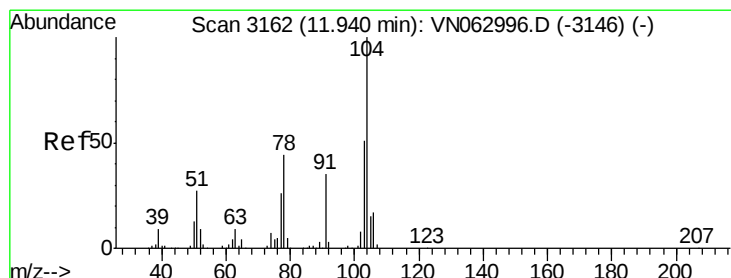
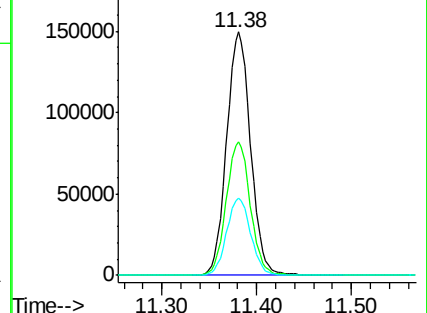
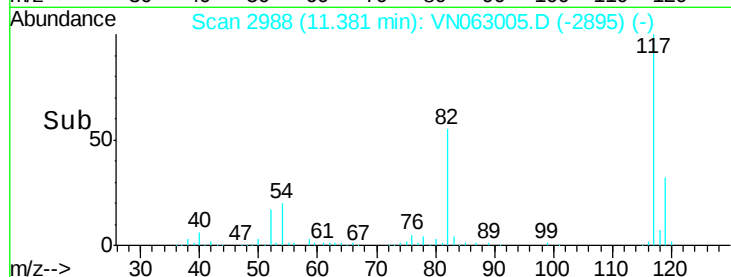
119 31.8 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: 1.960 ug/l

RT: 11.94 min Scan# 3161

Delta R.T. -0.00 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

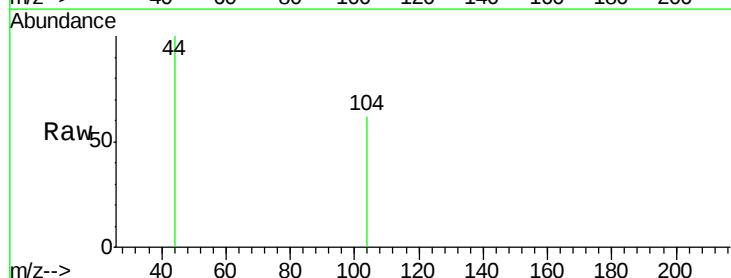
Tgt Ion:104 Resp: 241

Ion Ratio Lower Upper

104 100

78 0.0 39.0 58.6#

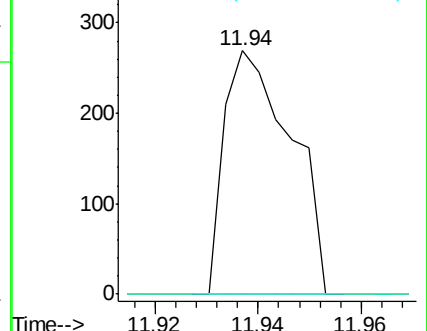
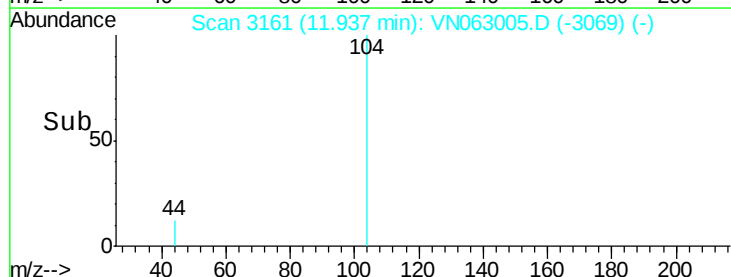
103 0.0 44.3 66.5#

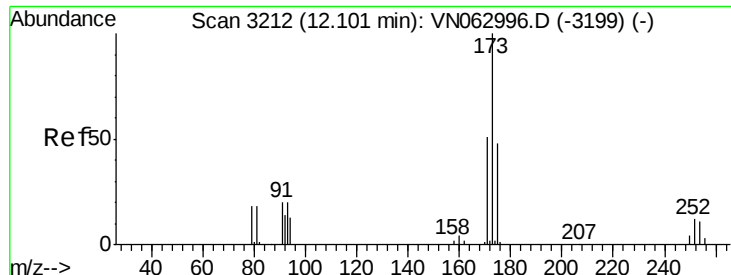


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.619 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

GW-02

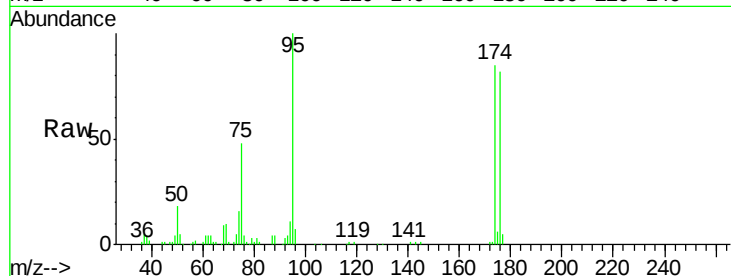
Tgt Ion:173 Resp: 1016

Ion Ratio Lower Upper

173 100

175 561.2 24.3 72.8#

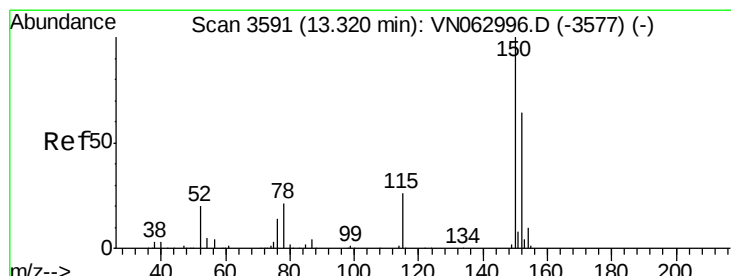
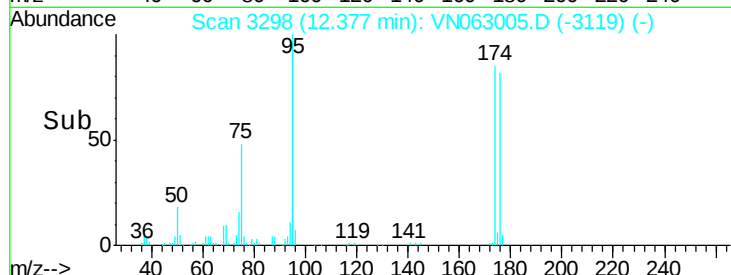
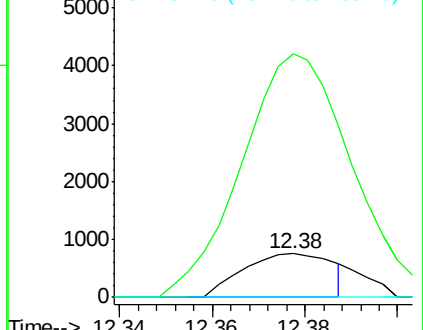
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

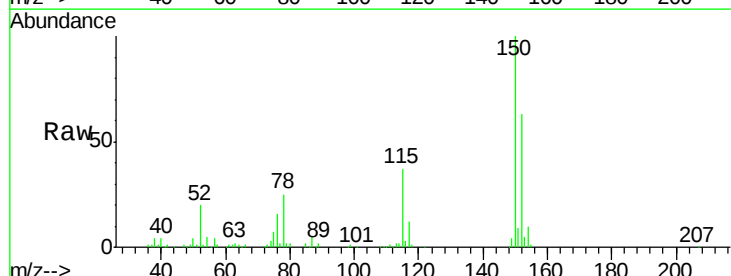
Tgt Ion:152 Resp: 96616

Ion Ratio Lower Upper

152 100

115 56.4 28.7 86.3

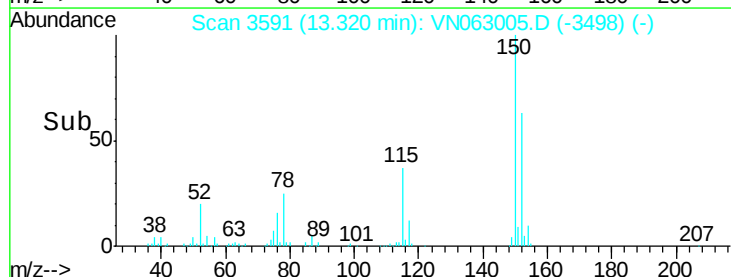
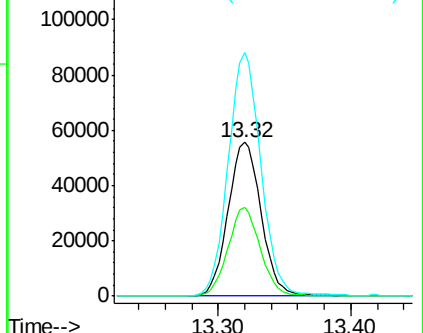
150 156.7 0.0 348.8

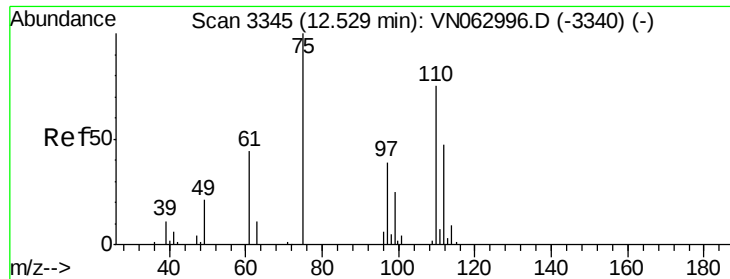


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

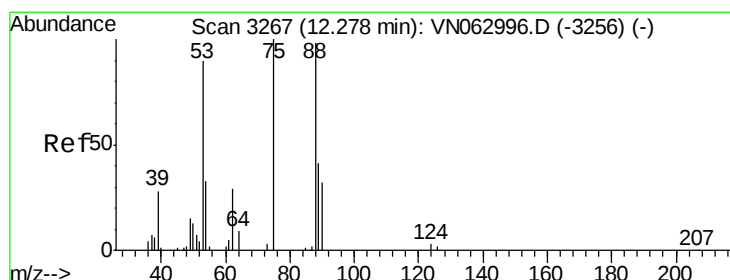
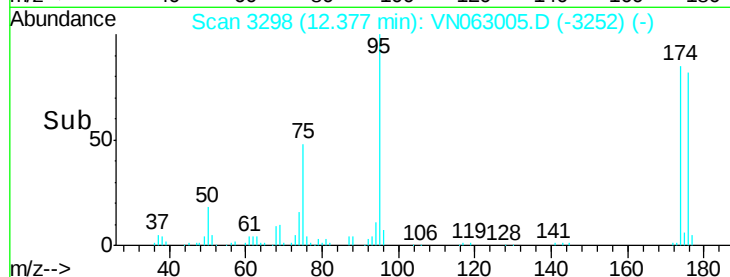
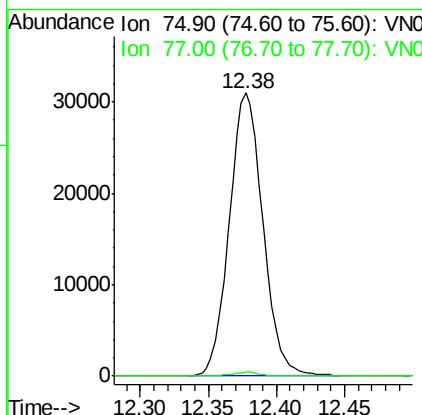
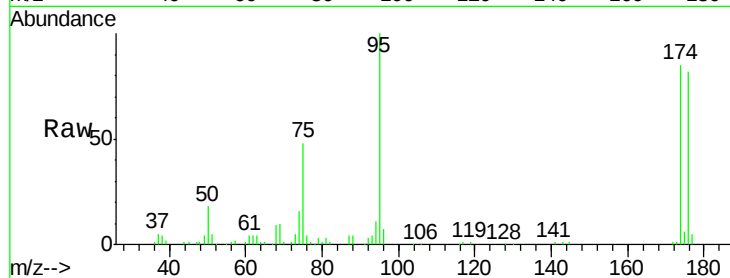




#76
 1,2,3-Trichloropropane
 Concen: 28.260 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN063005.D
 Acq: 19 Aug 2020 11:40

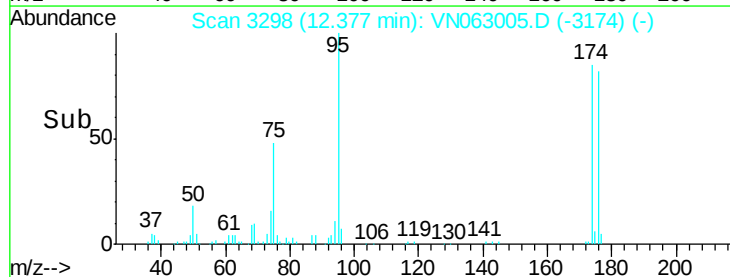
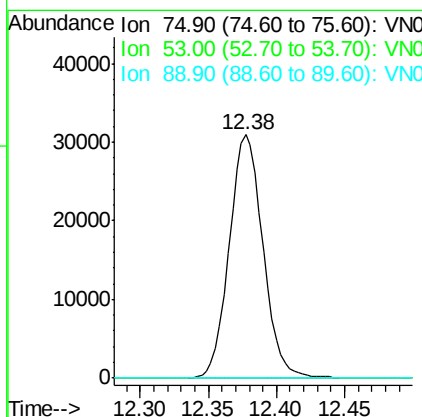
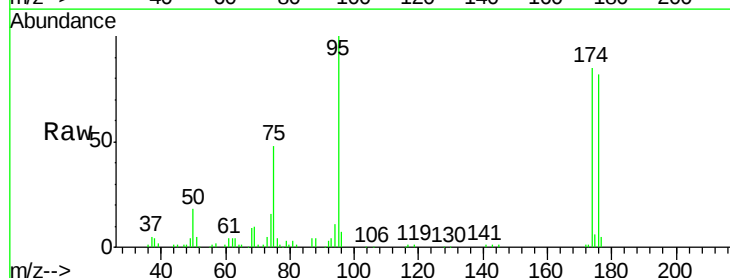
Instrument :
 MSVOA_N
 ClientSampled :
 GW-02

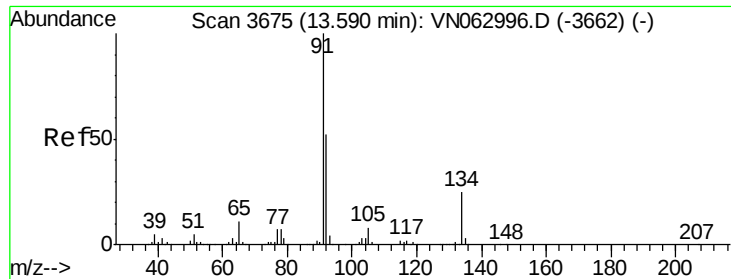
Tgt Ion: 75 Resp: 53073
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.616 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN063005.D
 Acq: 19 Aug 2020 11:40

Tgt Ion: 75 Resp: 53073
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.2 103.8#
 89 0.0 34.2 51.4#





#89

n-Butylbenzene

Concen: 2.818 ug/l

RT: 13.60 min Scan# 3677

Delta R.T. 0.01 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

Instrument :

MSVOA_N

ClientSampled :

GW-02

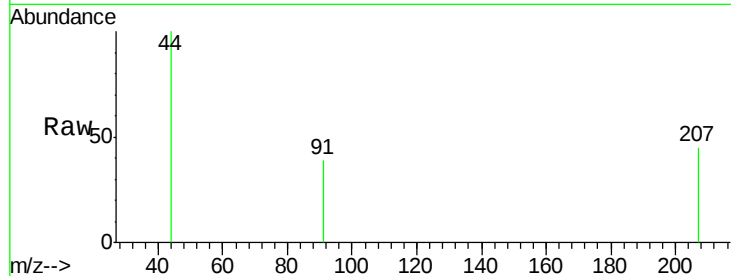
Tgt Ion: 91 Resp: 265

Ion Ratio Lower Upper

91 100

92 0.0 25.9 77.6#

134 0.0 12.4 37.0#

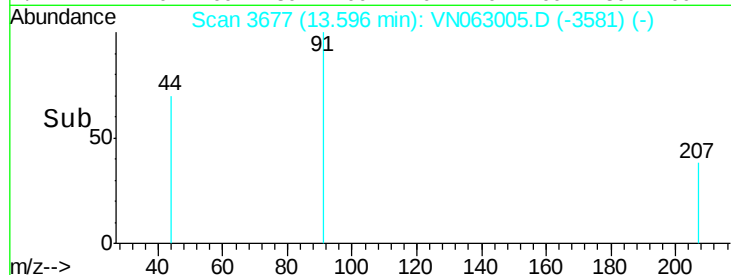


Abundance Ion 91.00 (90.70 to 91.70): VN062996.D (-3662) (-)

Ion 92.00 (91.70 to 92.70): VN062996.D (-3662) (-)

Ion 134.00 (133.70 to 134.70): VN062996.D (-3662) (-)

Time-->

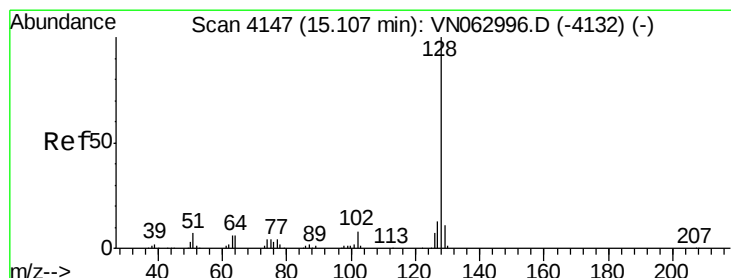


Abundance Ion 91.00 (90.70 to 91.70): VN063005.D (-3581) (-)

Ion 92.00 (91.70 to 92.70): VN063005.D (-3581) (-)

Ion 134.00 (133.70 to 134.70): VN063005.D (-3581) (-)

Time-->



#95

Naphthalene

Concen: 5.772 ug/l

RT: 15.12 min Scan# 4150

Delta R.T. 0.01 min

Lab File: VN063005.D

Acq: 19 Aug 2020 11:40

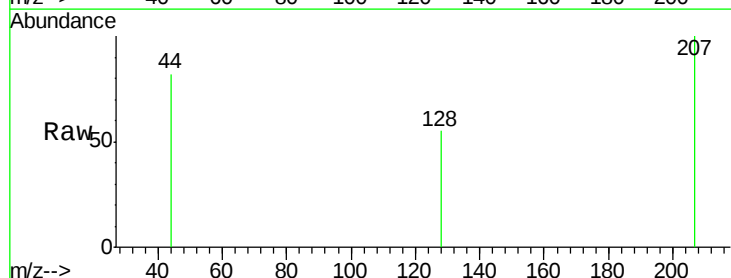
Tgt Ion: 128 Resp: 564

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.9 13.3#

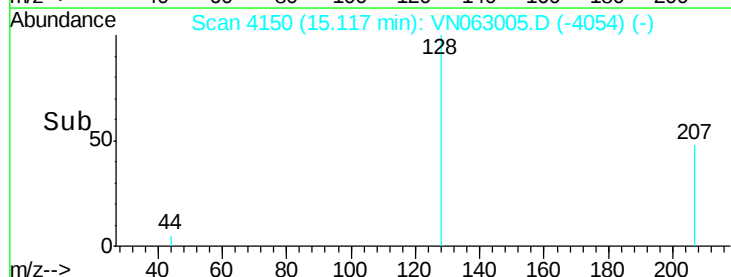


Abundance Ion 128.00 (127.70 to 128.70): VN062996.D (-4132) (-)

Ion 127.00 (126.70 to 127.70): VN062996.D (-4132) (-)

Ion 129.00 (128.70 to 129.70): VN062996.D (-4132) (-)

Time-->



Abundance Ion 128.00 (127.70 to 128.70): VN063005.D (-4054) (-)

Ion 127.00 (126.70 to 127.70): VN063005.D (-4054) (-)

Ion 129.00 (128.70 to 129.70): VN063005.D (-4054) (-)

Time-->