

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101220\
 Data File : VN064088.D
 Acq On : 12 Oct 2020 19:26
 Operator : JC/MD
 Sample : L4333-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OH-WC-J6-3-6

Quant Time: Oct 13 01:09:50 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	223073	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	410038	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	434112	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171070	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	188223	51.07	ug/l	0.00
Spiked Amount			Recovery	=	102.14%	
35) Dibromofluoromethane	7.55	113	144449	50.77	ug/l	0.00
Spiked Amount			Recovery	=	101.54%	
50) Toluene-d8	10.06	98	545287	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	12.38	95	213044	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	

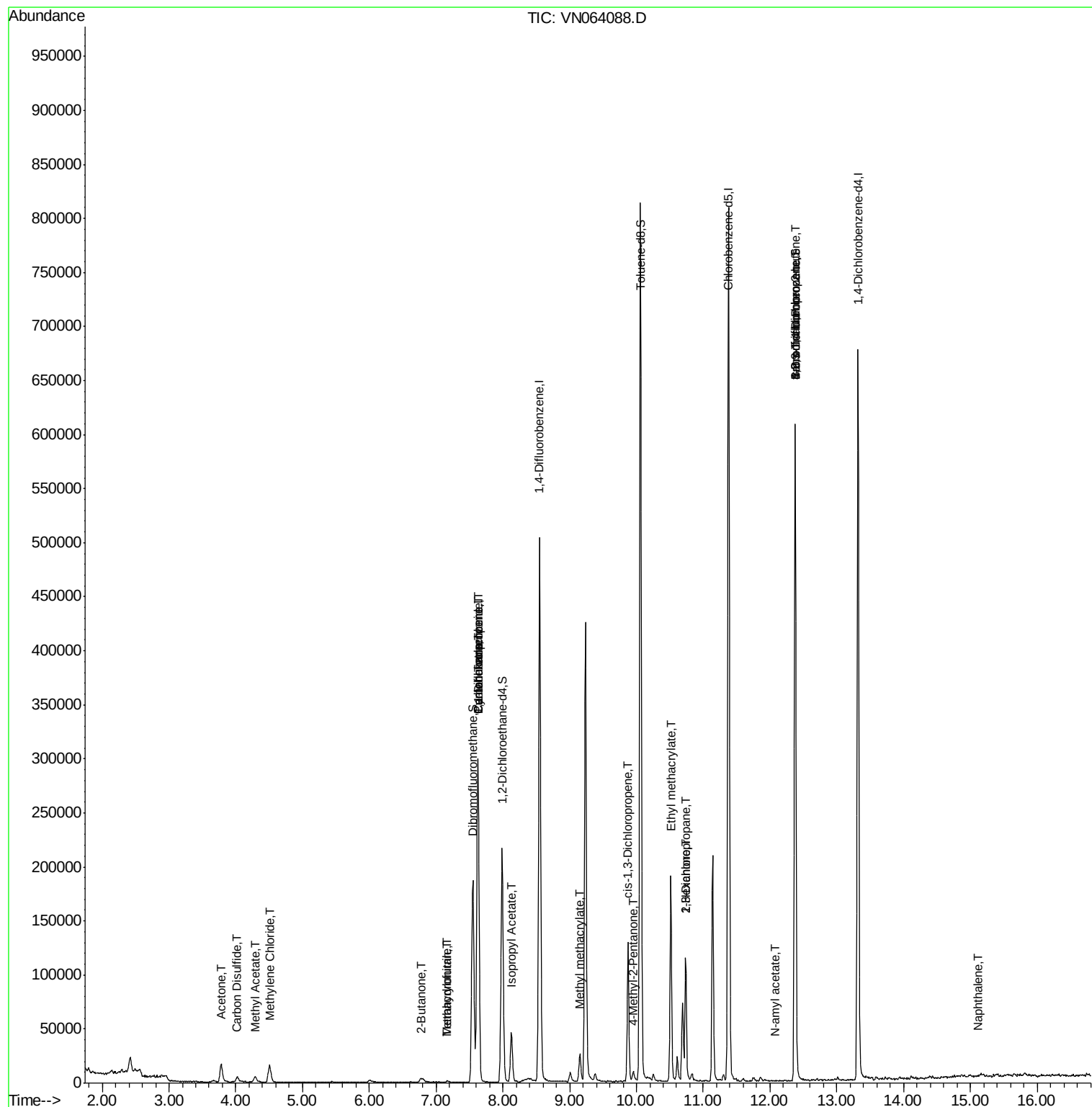
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	31160	27.467	ug/l	96
17) Carbon Disulfide	4.02	76	2971	1.183	ug/l #	82
18) Methyl Acetate	4.29	43	9833	3.338	ug/l #	70
20) Methylene Chloride	4.51	84	10621	4.177	ug/l	95
25) 2-Butanone	6.78	43	1722	1.071	ug/l #	51
29) Tetrahydrofuran	7.17	42	670	0.621	ug/l #	69
31) Cyclohexane	7.63	56	5725	1.338	ug/l #	19
36) 1,1-Dichloropropene	7.63	75	20306	4.888	ug/l #	50
38) Carbon Tetrachloride	7.62	117	25919	5.564	ug/l #	15
41) Methacrylonitrile	7.18	41	621	0.339	ug/l #	45
43) Isopropyl Acetate	8.13	43	57352	8.425	ug/l	99
48) Methyl methacrylate	9.14	41	4275	1.271	ug/l #	36
51) 4-Methyl-2-Pentanone	9.96	43	8514	2.131	ug/l #	87
54) cis-1,3-Dichloropropene	9.87	75	19660	3.849	ug/l #	60
56) Ethyl methacrylate	10.52	69	1077	0.258	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	1075	0.216	ug/l #	43
59) 2-Hexanone	10.74	43	17739	5.977	ug/l #	56
71) Bromoform	12.38	173	1894	0.725	ug/l #	1
74) N-amyl acetate	12.08	43	305	2.266	ug/l #	43
76) 1,2,3-Trichloropropane	12.38	75	114178	30.277	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	114178	87.204	ug/l #	6
95) Naphthalene	15.12	128	987	2.027	ug/l #	69

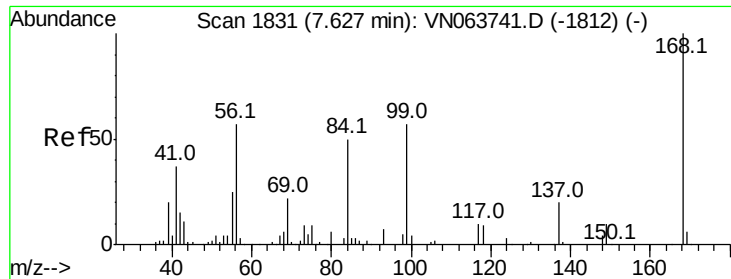
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

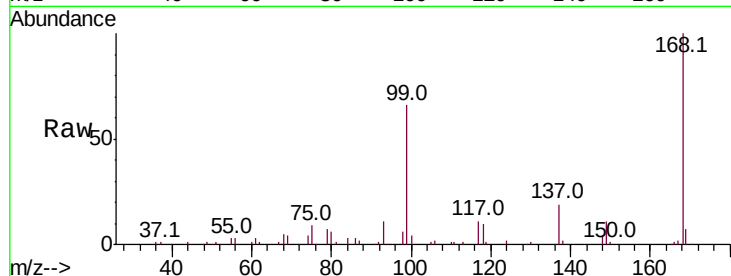
OH-WC-J6-3-6

Tot Ion:168 Resp: 223073

Ion Ratio Lower Upper

168 100

99 66.3 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

60000

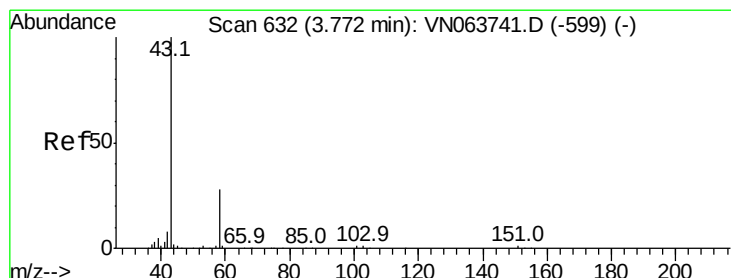
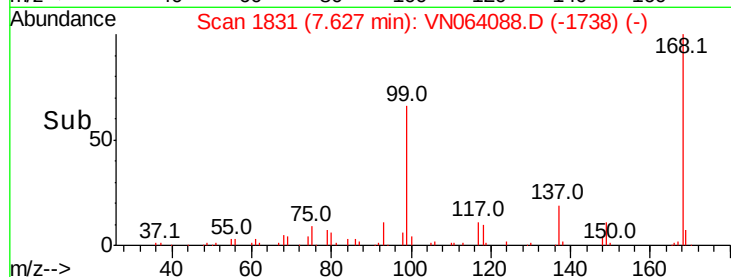
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#16

Acetone

Concen: 27.467 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064088.D

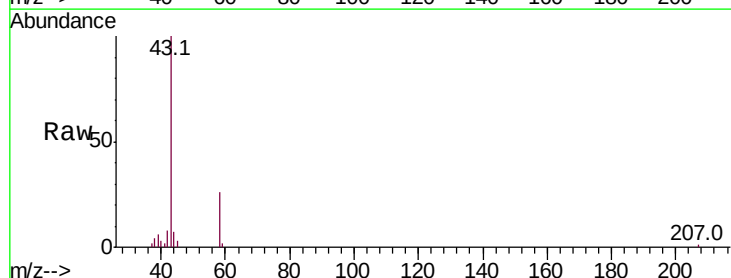
Acq: 12 Oct 2020 19:26

Tgt Ion: 43 Resp: 31160

Ion Ratio Lower Upper

43 100

58 25.8 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.78

12000

10000

8000

6000

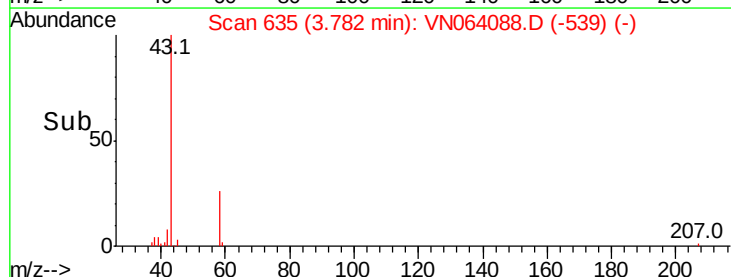
4000

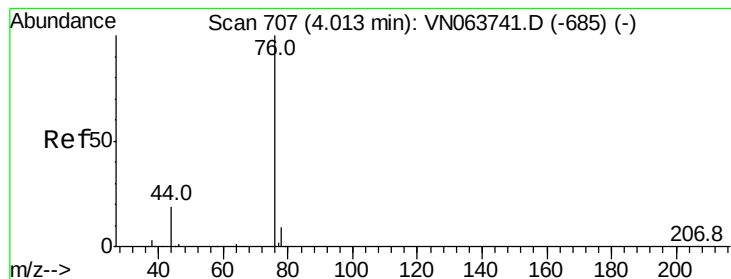
2000

0

Time-->

3.70 3.80 3.90





#17

Carbon Disulfide

Concen: 1.183 ug/l

RT: 4.02 min Scan# 709

Delta R.T. 0.01 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampled :

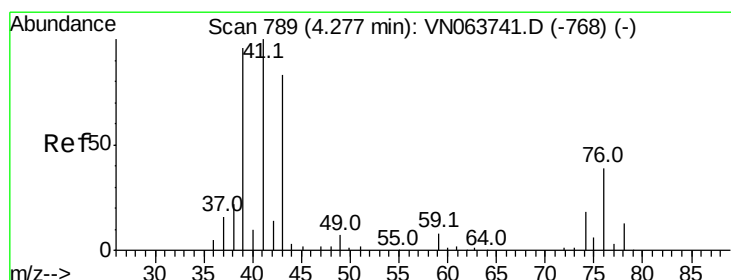
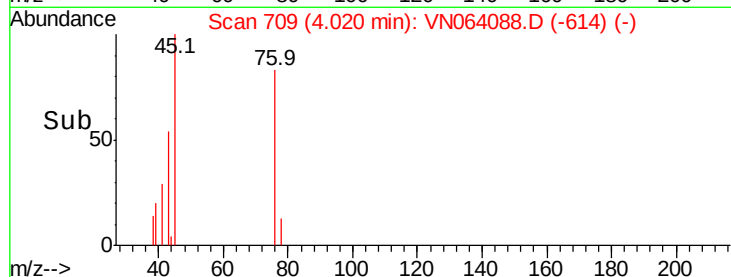
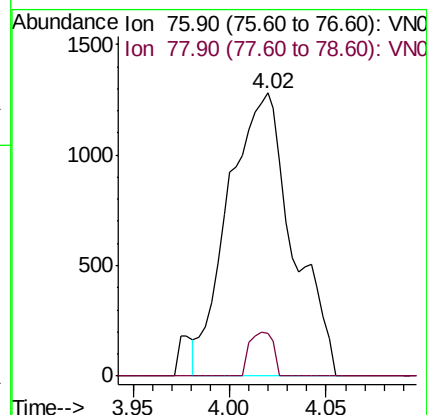
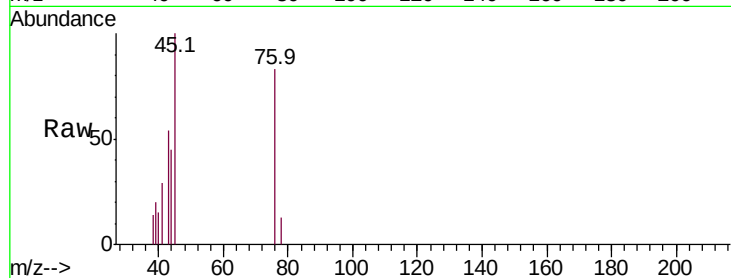
OH-WC-J6-3-6

Tot Ion: 76 Resp: 2971

Ion Ratio Lower Upper

76 100

78 15.2 7.0 10.4#



#18

Methyl Acetate

Concen: 3.338 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.02 min

Lab File: VN064088.D

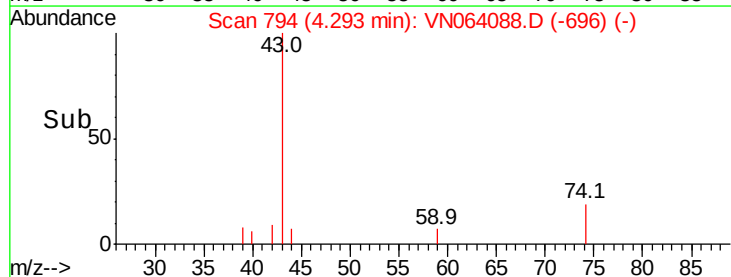
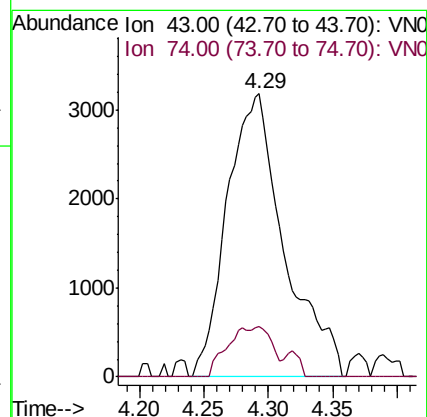
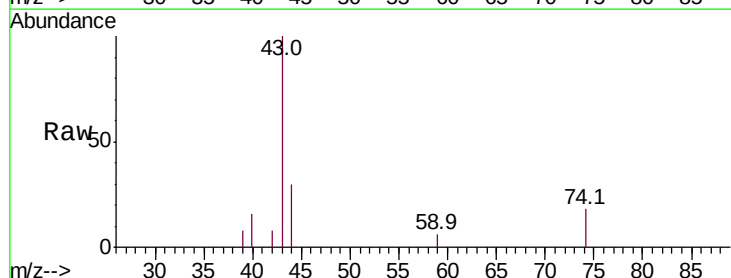
Acq: 12 Oct 2020 19:26

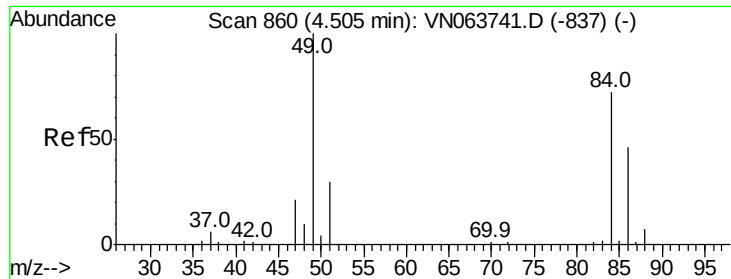
Tgt Ion: 43 Resp: 9833

Ion Ratio Lower Upper

43 100

74 7.8 17.4 26.2#

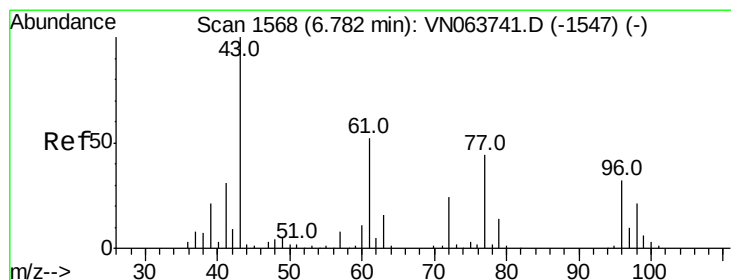
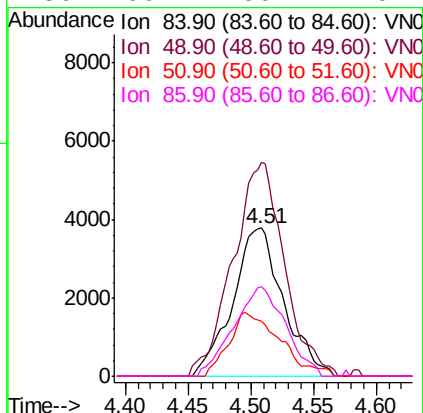
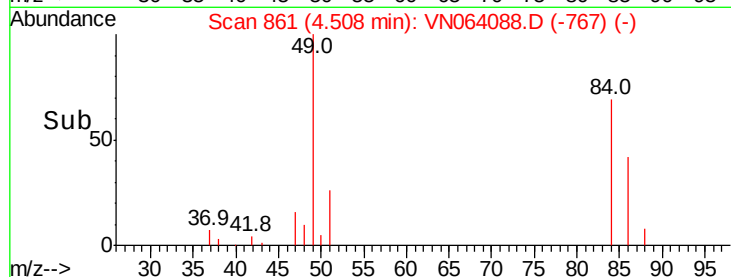
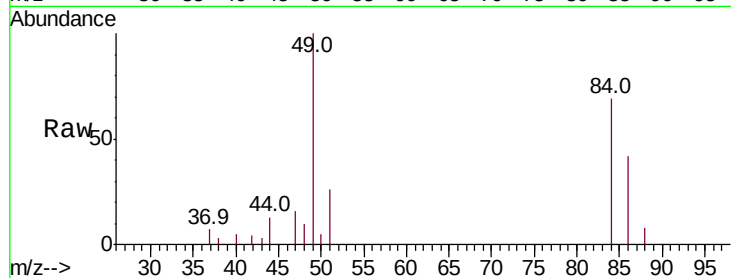




#20
Methvlene Chloride
Concen: 4.177 ug/l
RT: 4.51 min Scan# 861
Delta R.T. 0.00 min
Lab File: VN064088.D
Acq: 12 Oct 2020 19:26

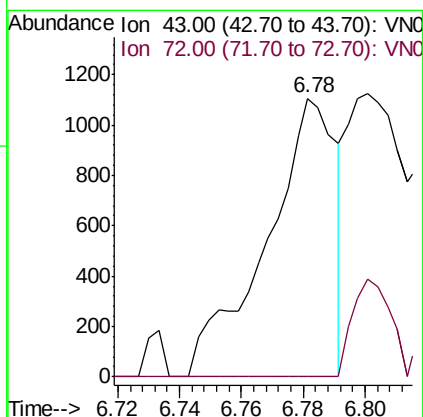
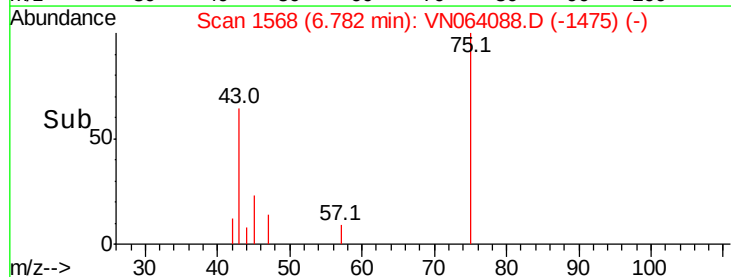
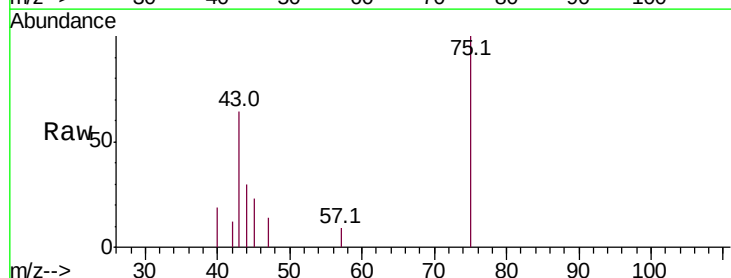
Instrument :
MSVOA_N
ClientSampleId :
OH-WC-J6-3-6

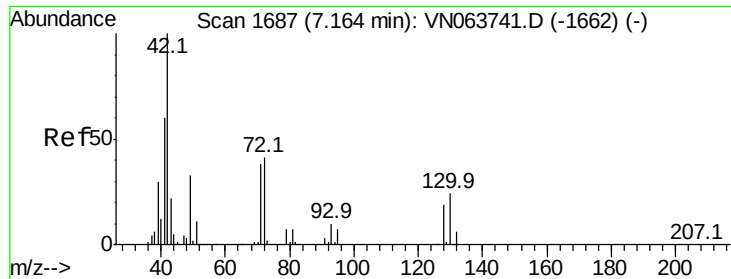
Tot Ion:	84	Resp:	10621
Ion	Ratio	Lower	Upper
84	100		
49	144.1	110.4	165.6
51	36.8	33.3	49.9
86	60.1	50.7	76.1



#25
2-Butanone
Concen: 1.071 ug/l
RT: 6.78 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VN064088.D
Acq: 12 Oct 2020 19:26

Tgt Ion:	43	Resp:	1722
Ion	Ratio	Lower	Upper
43	100		
72	0.0	19.3	28.9#





#29

Tetrahydrofuran

Concen: 0.621 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

OH-WC-J6-3-6

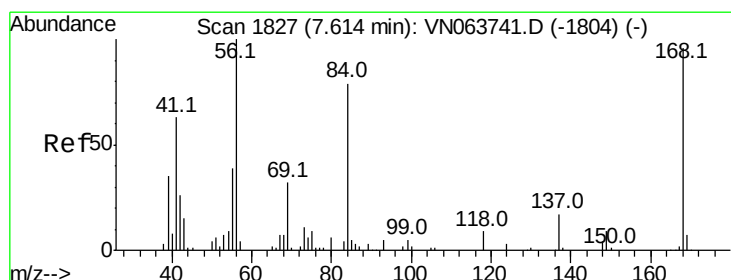
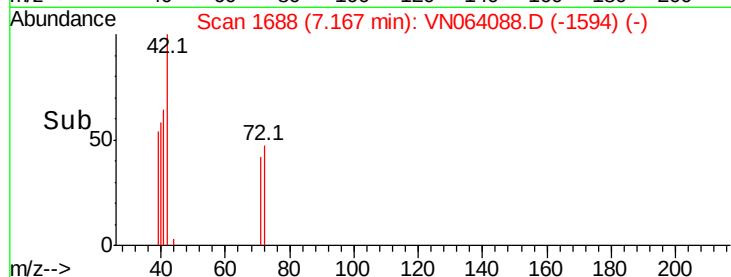
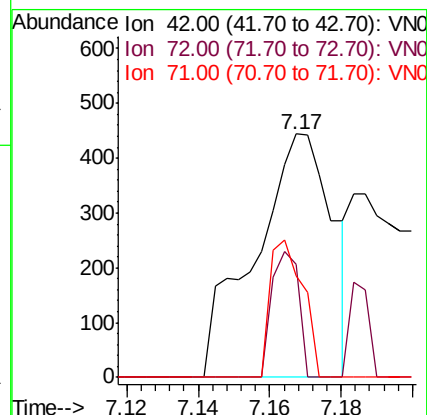
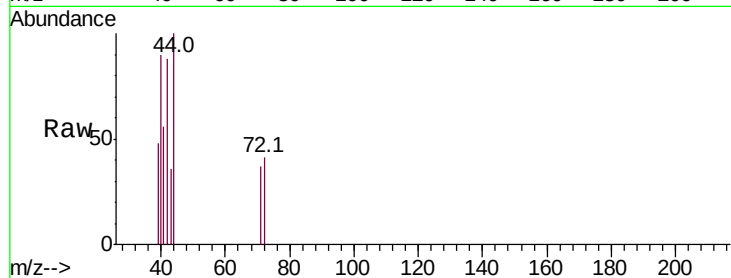
Tot Ion: 42 Resp: 670

Ion Ratio Lower Upper

42 100

72 17.9 32.8 49.2#

71 23.7 30.6 45.8#



#31

Cyclohexane

Concen: 1.338 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

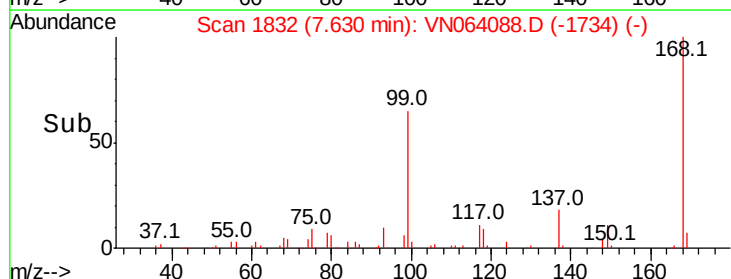
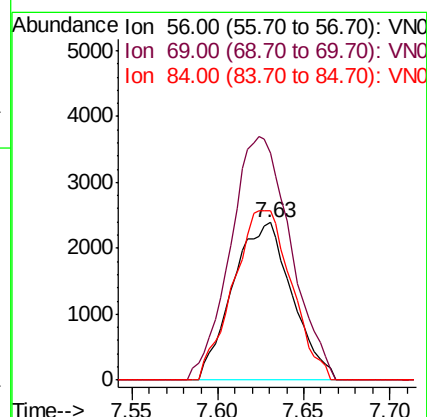
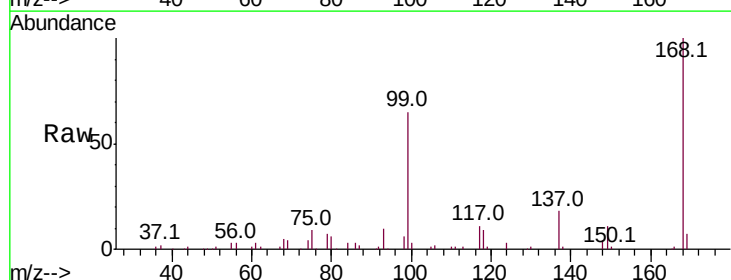
Tgt Ion: 56 Resp: 5725

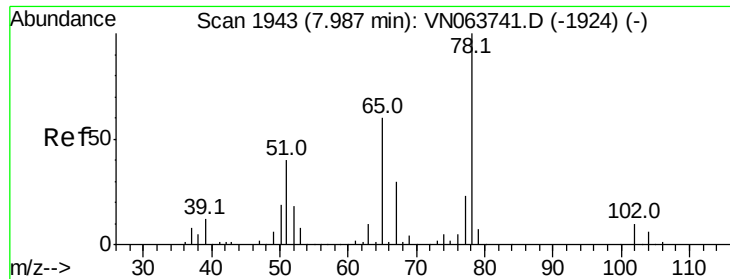
Ion Ratio Lower Upper

56 100

69 143.8 25.4 38.2#

84 107.7 63.3 94.9#





#33

1,2-Dichloroethane-d4

Concen: 51.074 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

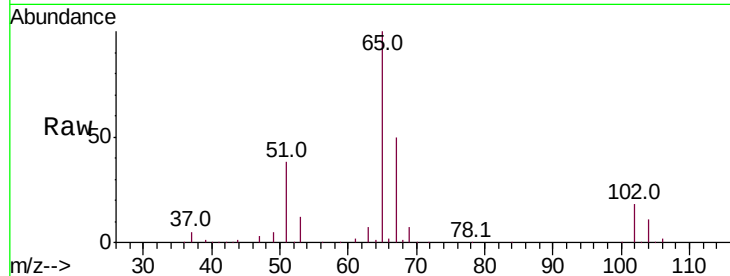
OH-WC-J6-3-6

Tot Ion: 65 Resp: 188223

Ion Ratio Lower Upper

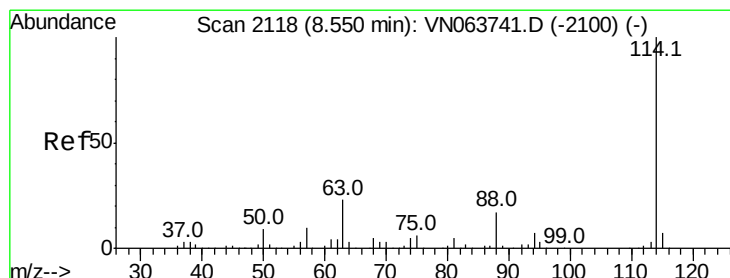
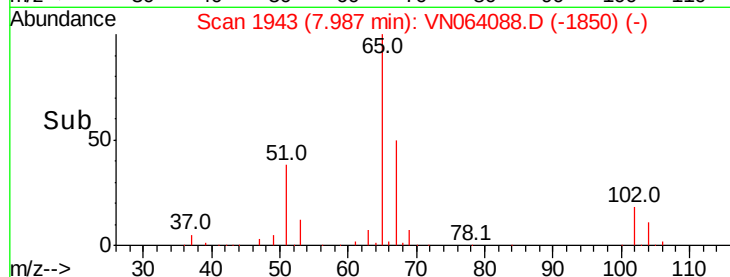
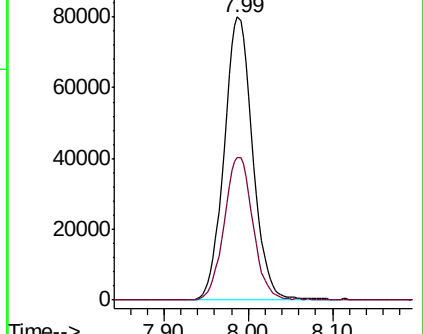
65 100

67 50.7 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063741.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063741.D (-1924) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

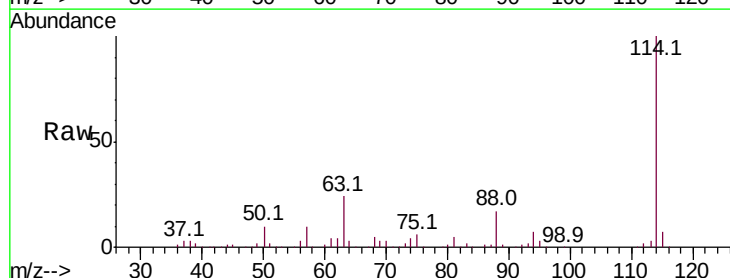
Tgt Ion: 114 Resp: 410038

Ion Ratio Lower Upper

114 100

63 24.2 0.0 45.0

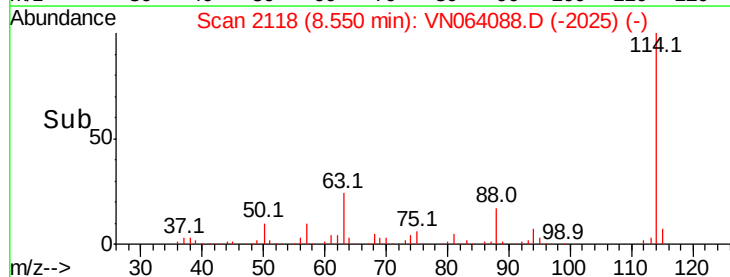
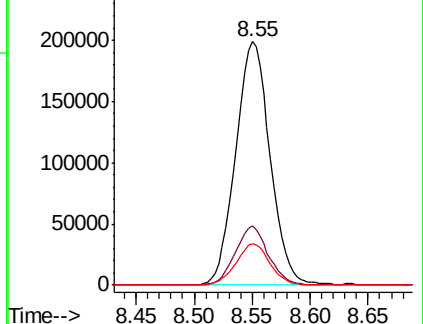
88 17.0 0.0 34.0

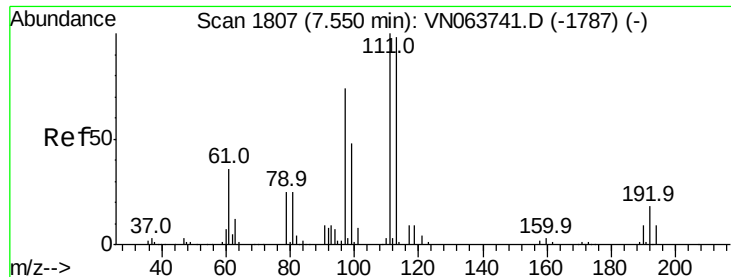


Abundance Ion 113.90 (113.60 to 114.60): VN063741.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN063741.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN063741.D (-2100) (-)

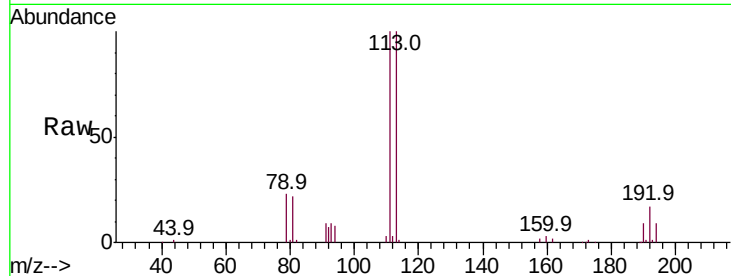




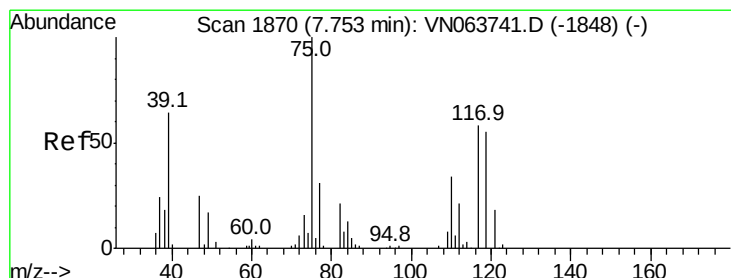
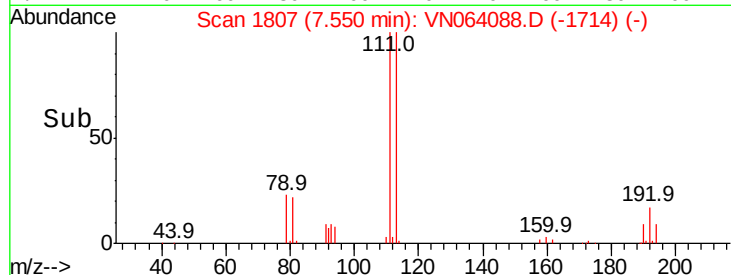
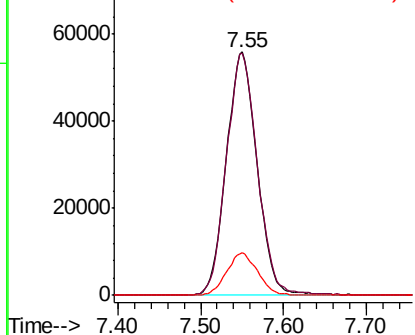
#35
 Dibromofluoromethane
 Concen: 50.770 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064088.D
 Acq: 12 Oct 2020 19:26

Instrument :
 MSVOA_N
 ClientSampleId :
 OH-WC-J6-3-6

Tot Ion:113 Resp: 144449
 Ion Ratio Lower Upper
 113 100
 111 100.2 81.8 122.8
 192 17.6 14.2 21.2

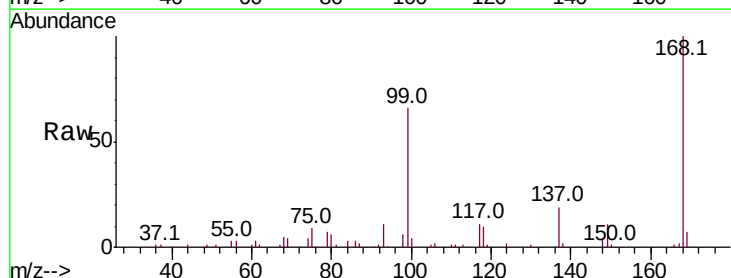


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

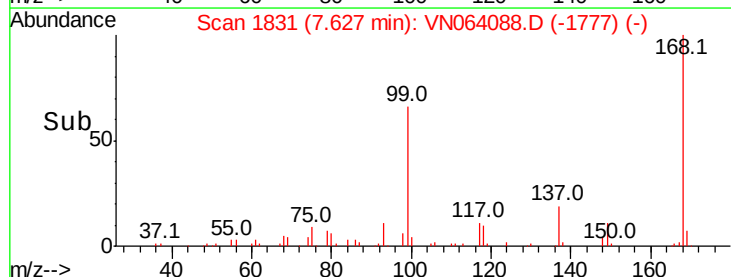
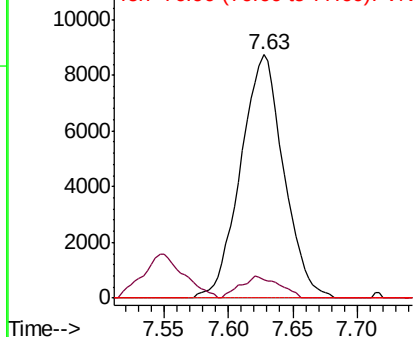


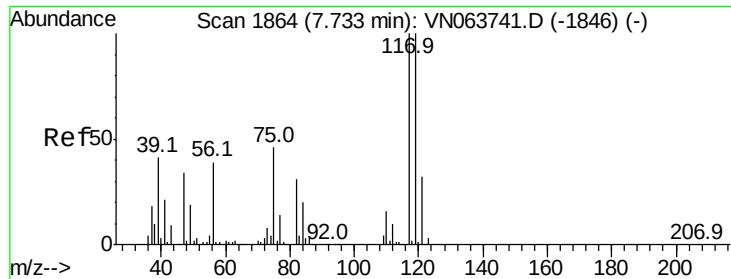
#36
 1,1-Dichloropropene
 Concen: 4.888 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064088.D
 Acq: 12 Oct 2020 19:26

Tgt Ion: 75 Resp: 20306
 Ion Ratio Lower Upper
 75 100
 110 8.1 16.9 50.6#
 77 0.0 24.5 36.7#



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

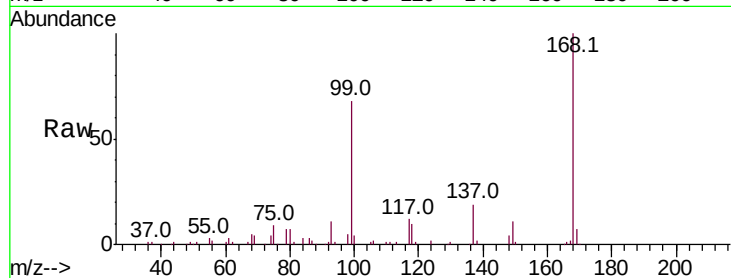




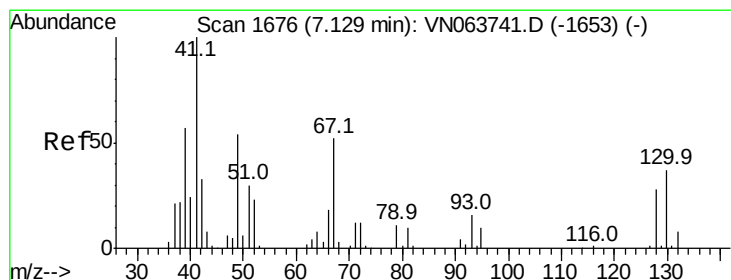
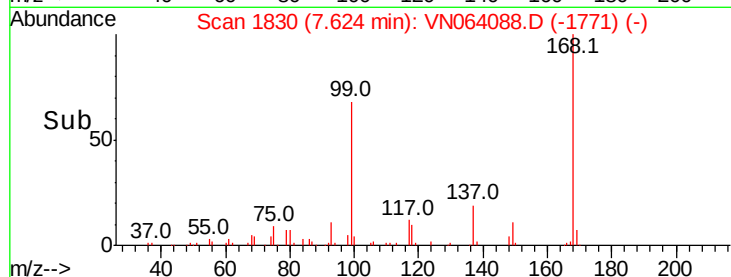
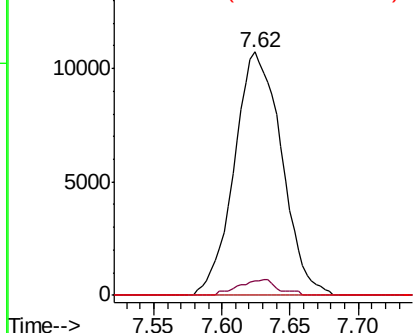
#38
Carbon Tetrachloride
Concen: 5.564 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. -0.11 min
Lab File: VN064088.D
Acq: 12 Oct 2020 19:26

Instrument :
MSVOA_N
ClientSampleId :
OH-WC-J6-3-6

Tot Ion:117 Resp: 25919
Ion Ratio Lower Upper
117 100
119 6.0 80.1 120.1#
121 0.0 25.7 38.5#

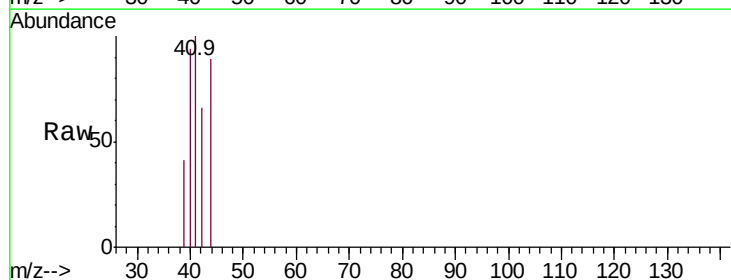


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

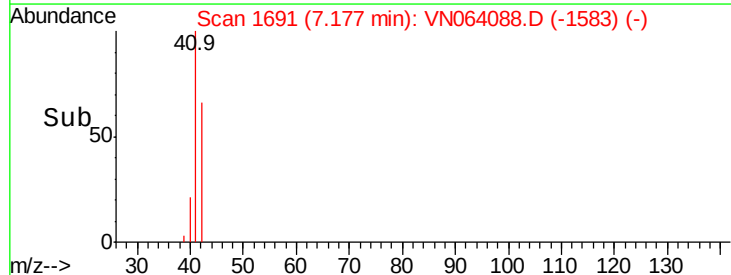
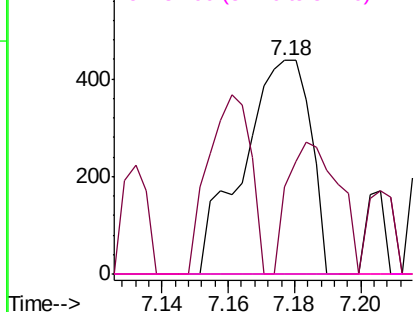


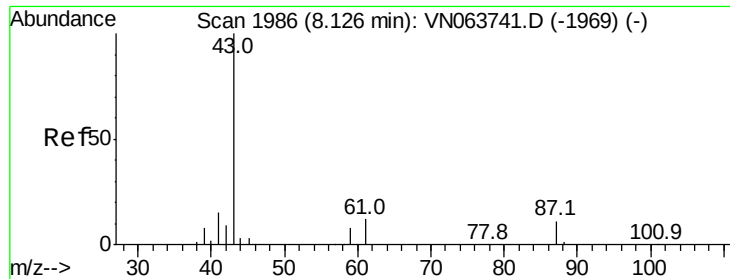
#41
Methacrylonitrile
Concen: 0.339 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.05 min
Lab File: VN064088.D
Acq: 12 Oct 2020 19:26

Tgt Ion: 41 Resp: 621
Ion Ratio Lower Upper
41 100
39 46.7 42.5 63.7
67 0.0 57.4 86.2#
52 0.0 26.9 40.3#



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





#43

Isopropyl Acetate

Concen: 8.425 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

OH-WC-J6-3-6

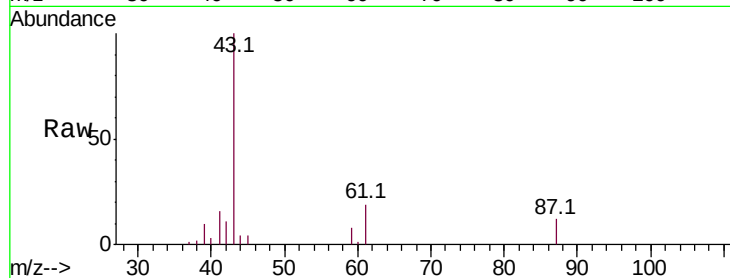
Tot Ion: 43 Resp: 57352

Ion Ratio Lower Upper

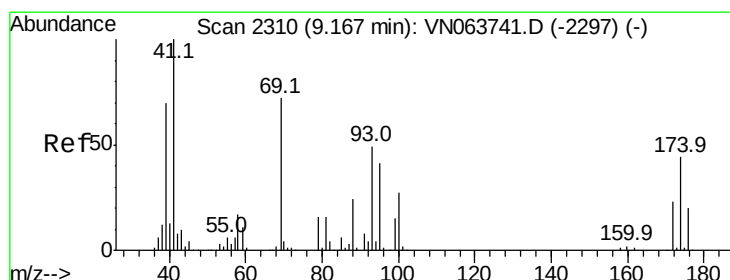
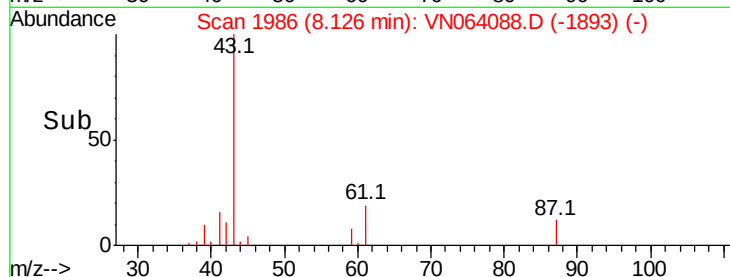
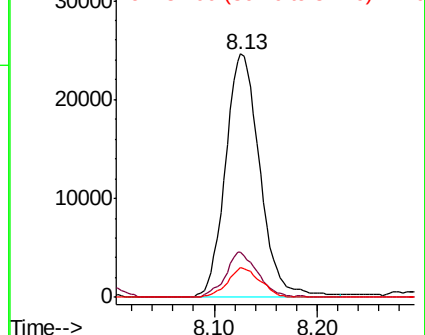
43 100

61 17.2 14.2 21.4

87 11.5 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



#48

Methyl methacrylate

Concen: 1.271 ug/l

RT: 9.14 min Scan# 2303

Delta R.T. -0.02 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

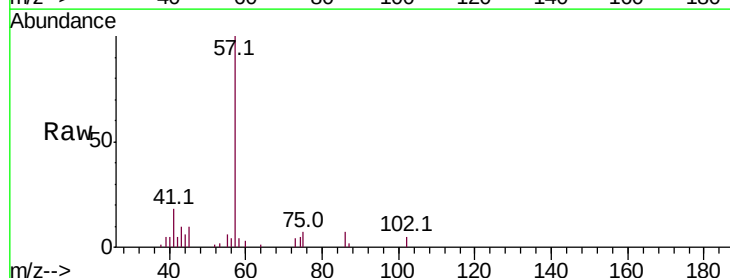
Tgt Ion: 41 Resp: 4275

Ion Ratio Lower Upper

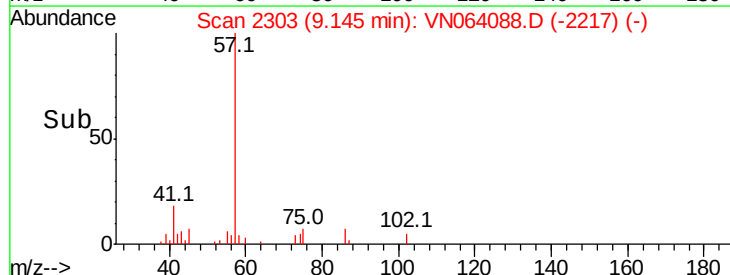
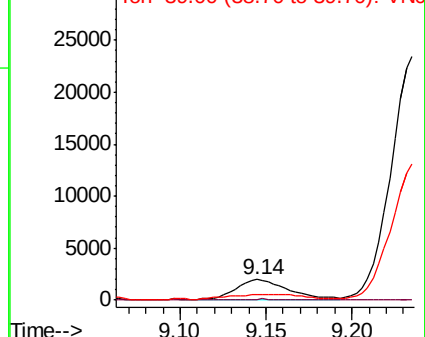
41 100

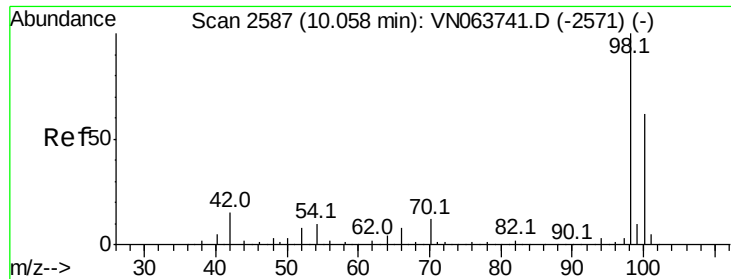
69 0.7 60.9 91.3#

39 39.3 57.5 86.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 50.557 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

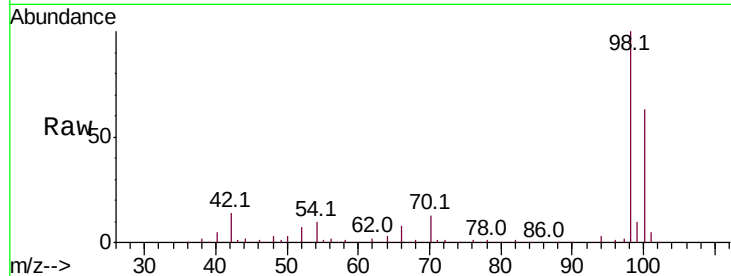
OH-WC-J6-3-6

Tot Ion: 98 Resp: 545287

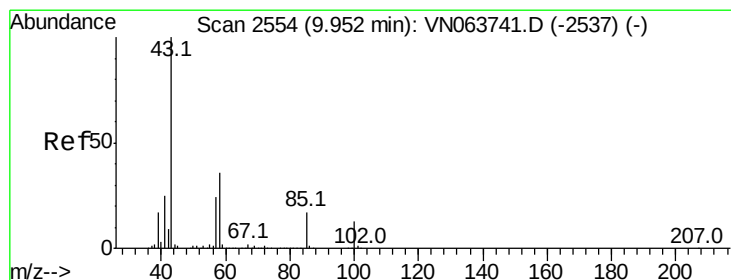
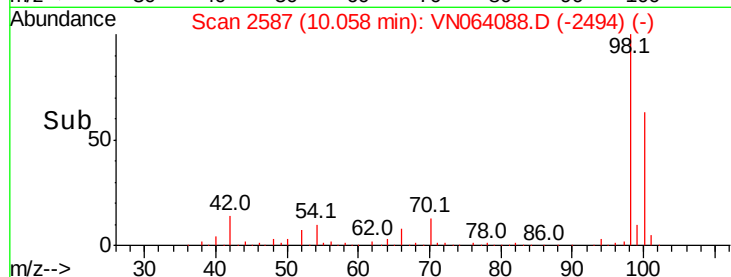
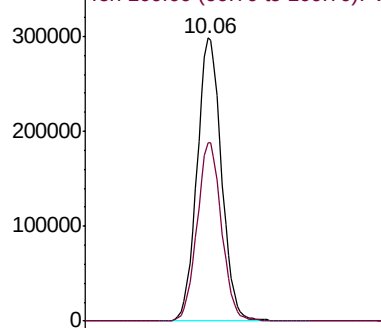
Ion Ratio Lower Upper

98 100

100 63.2 49.8 74.6



Abundance Ion 98.00 (97.70 to 98.70): VN063741.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 2.131 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064088.D

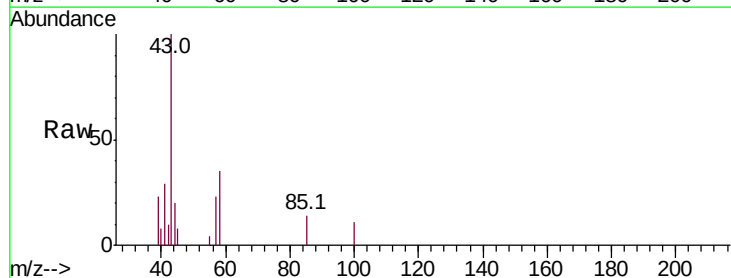
Acq: 12 Oct 2020 19:26

Tgt Ion: 43 Resp: 8514

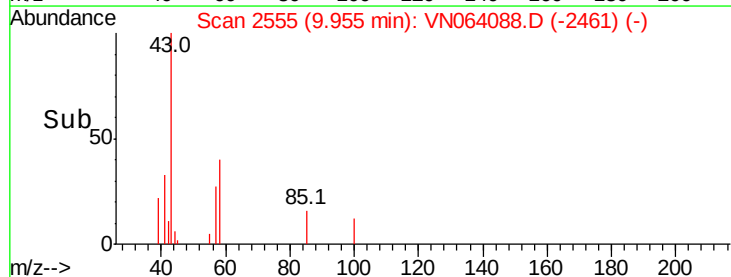
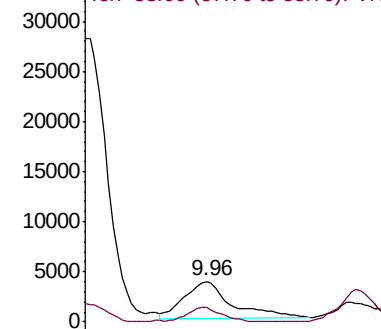
Ion Ratio Lower Upper

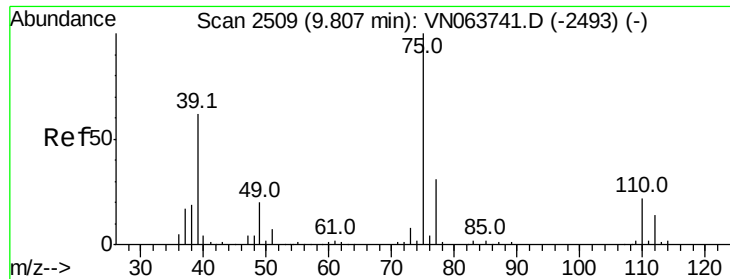
43 100

58 27.8 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 3.849 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

OH-WC-J6-3-6

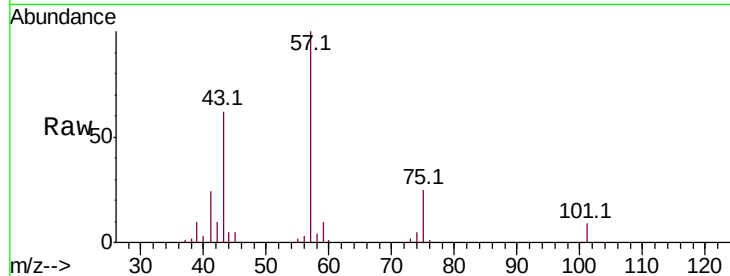
Tot Ion: 75 Resp: 19660

Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

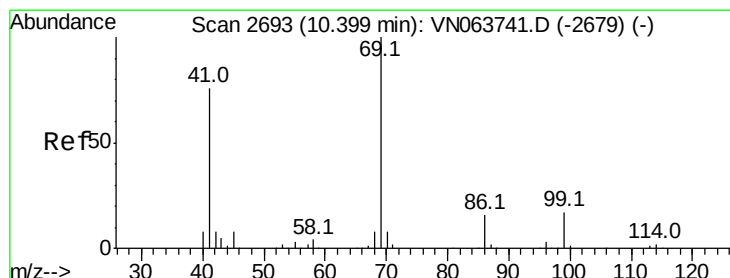
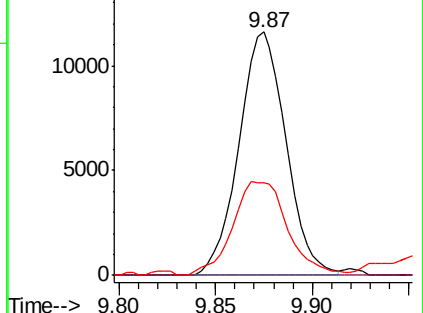
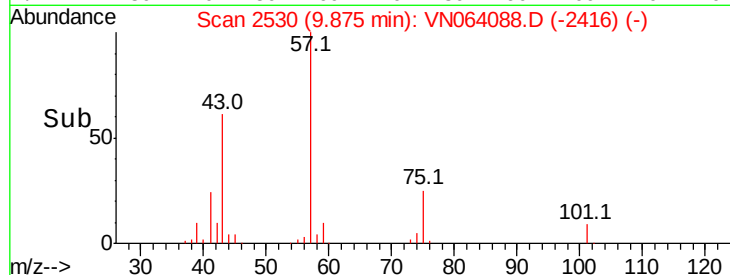
39 38.0 49.7 74.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.258 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

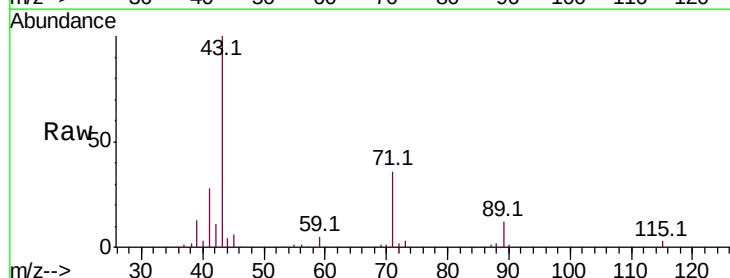
Tgt Ion: 69 Resp: 1077

Ion Ratio Lower Upper

69 100

41 3658.2 61.1 91.7#

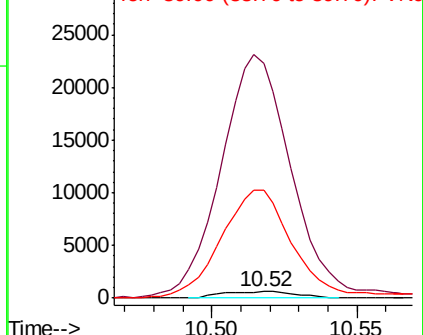
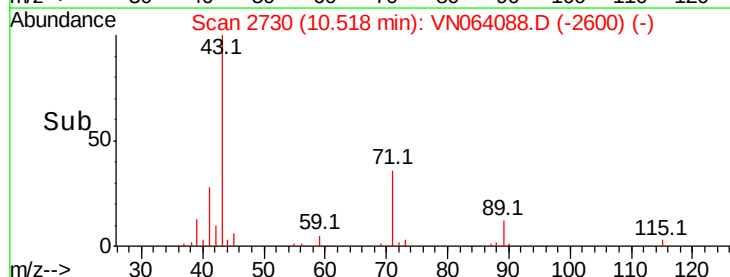
39 1633.1 42.2 63.4#

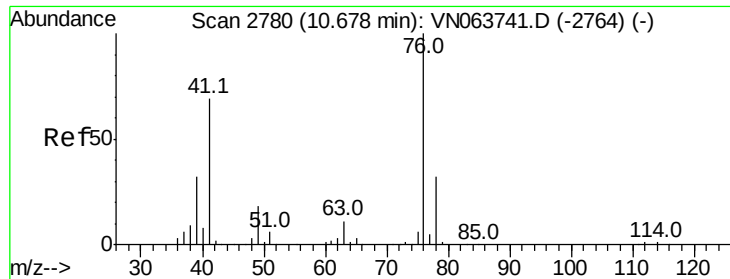


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 0.216 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

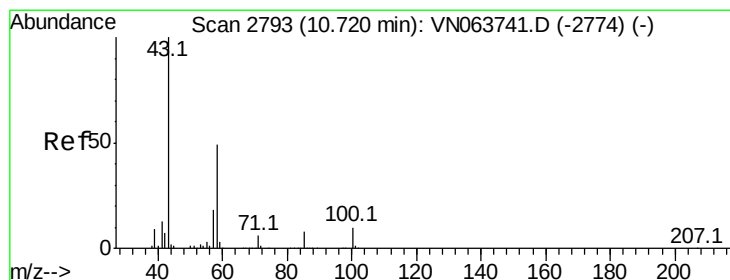
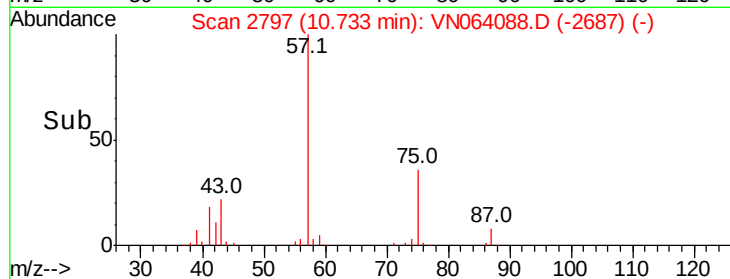
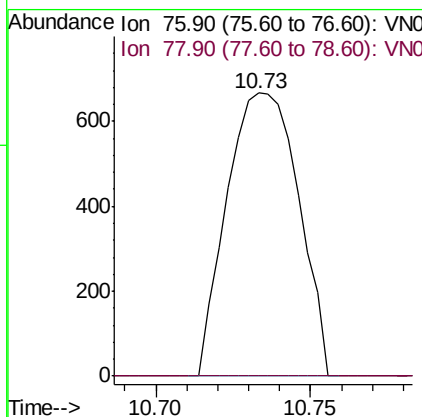
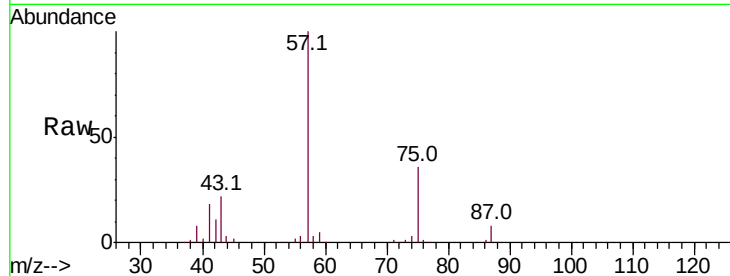
Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :
MSVOA_N
ClientSampleId :
OH-WC-J6-3-6

Tot Ion: 76 Resp: 1075

Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.2	37.8#



#59

2-Hexanone

Concen: 5.977 ug/l

RT: 10.74 min Scan# 2799

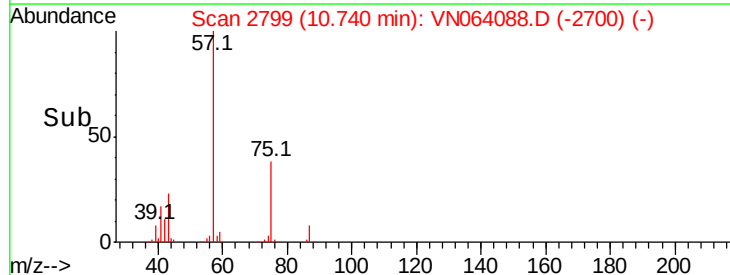
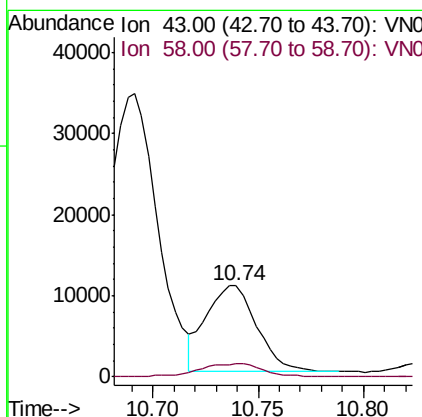
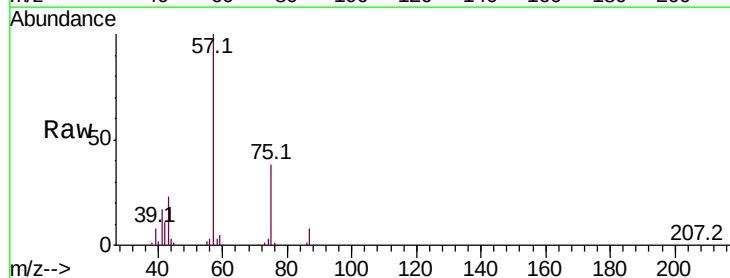
Delta R.T. 0.02 min

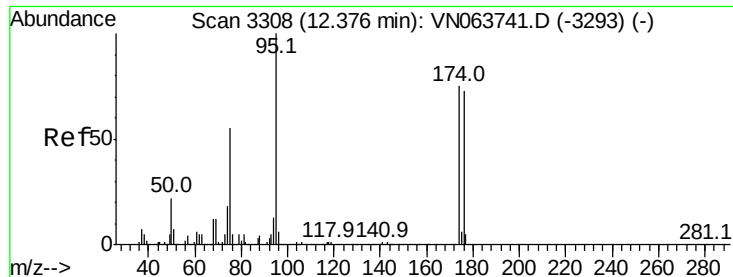
Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Tgt Ion: 43 Resp: 17739

Ion	Ratio	Lower	Upper
43	100		
58	19.0	24.6	73.8#





#62

4-Bromofluorobenzene

Concen: 52.546 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampleId :

OH-WC-J6-3-6

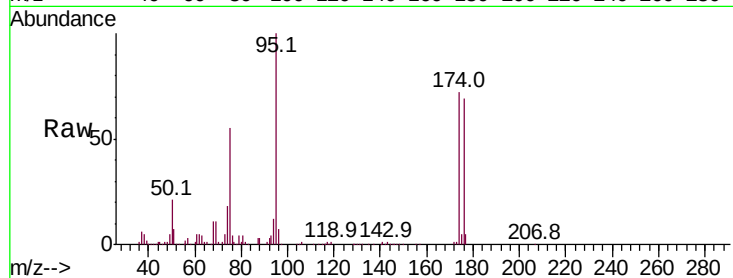
Tot Ion: 95 Resp: 213044

Ion Ratio Lower Upper

95 100

174 73.2 0.0 150.6

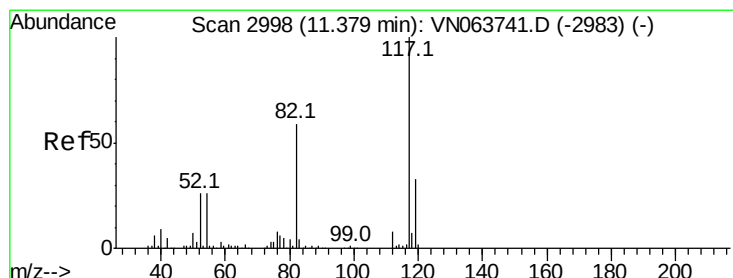
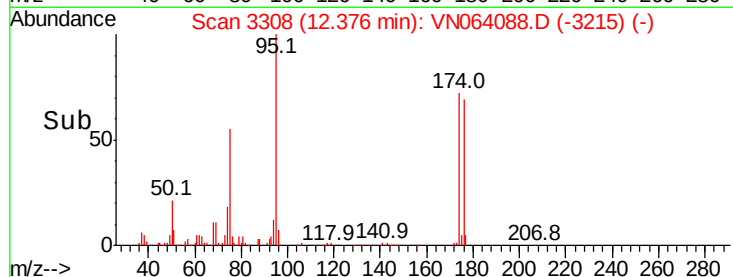
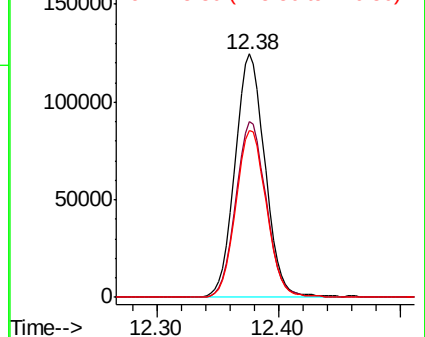
176 70.0 0.0 145.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

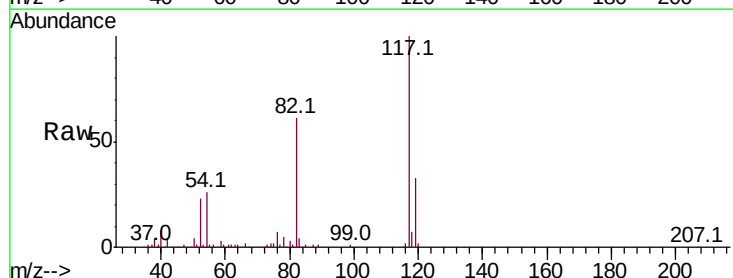
Tgt Ion: 117 Resp: 434112

Ion Ratio Lower Upper

117 100

82 61.1 47.4 71.2

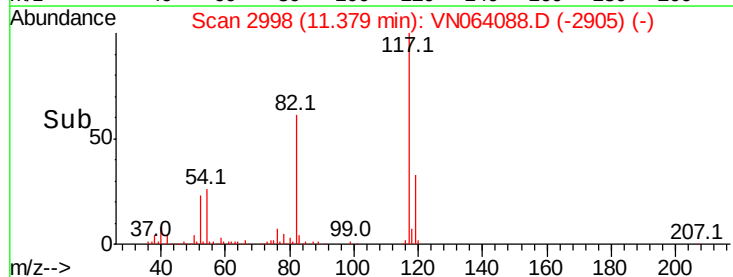
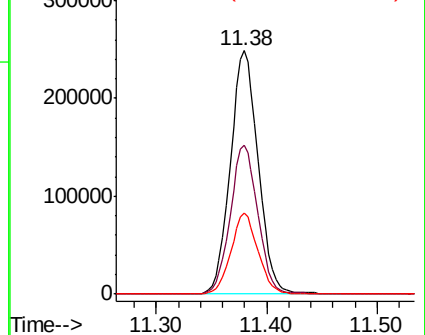
119 33.1 26.4 39.6

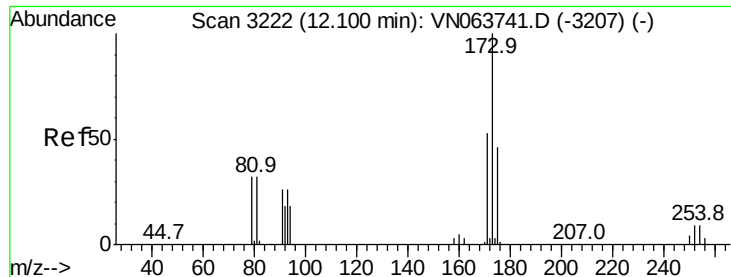


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.725 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

Instrument :

MSVOA_N

ClientSampled :

OH-WC-J6-3-6

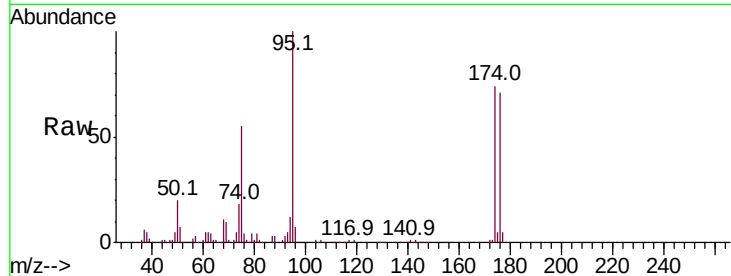
Tot Ion:173 Resp: 1894

Ion Ratio Lower Upper

173 100

175 485.9 23.5 70.5#

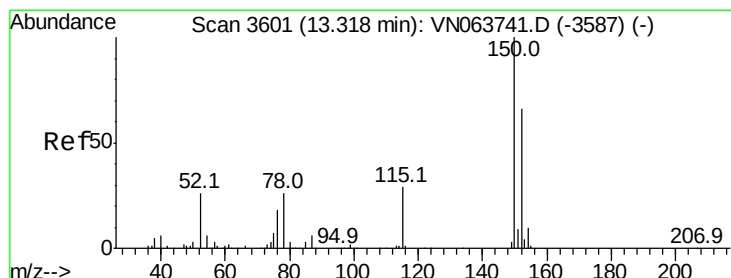
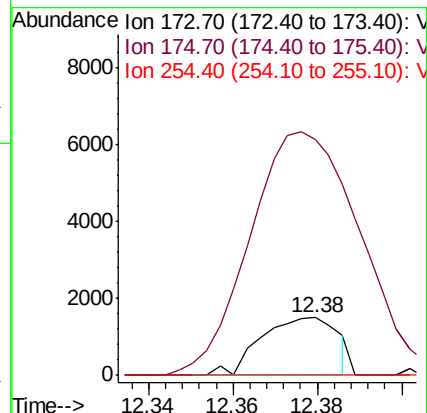
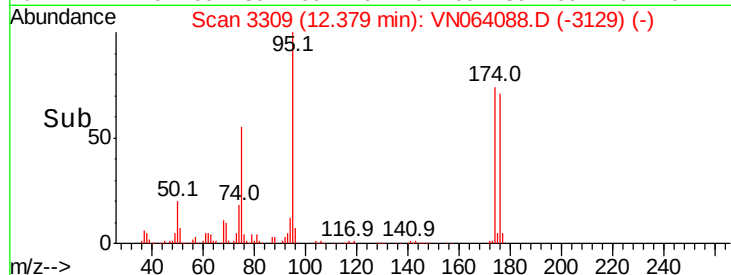
254 0.0 0.0 0.0



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# 3601

Delta R.T. 0.00 min

Lab File: VN064088.D

Acq: 12 Oct 2020 19:26

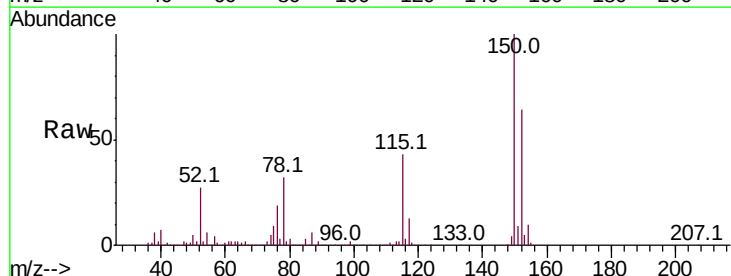
Tgt Ion:152 Resp: 171070

Ion Ratio Lower Upper

152 100

115 65.1 31.3 93.8

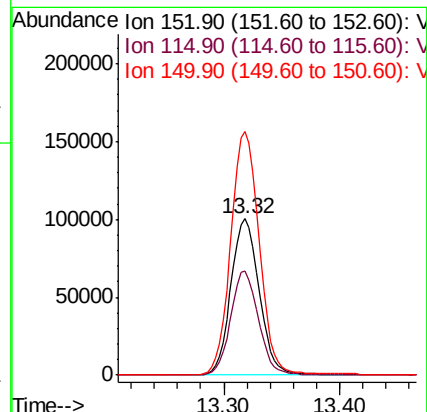
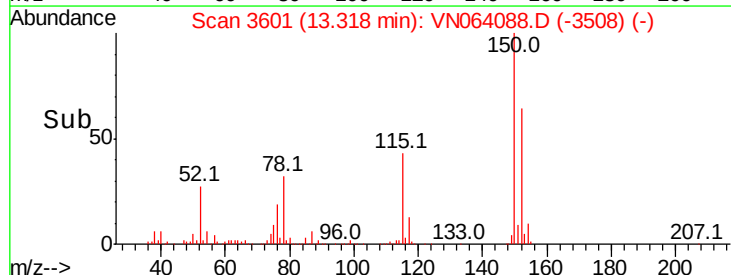
150 155.6 0.0 341.8

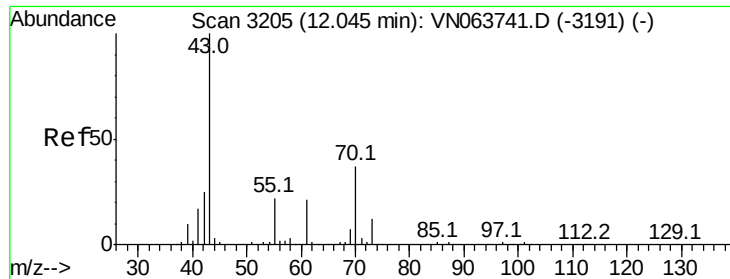


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

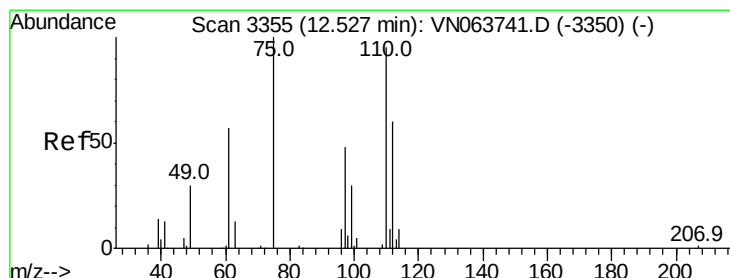
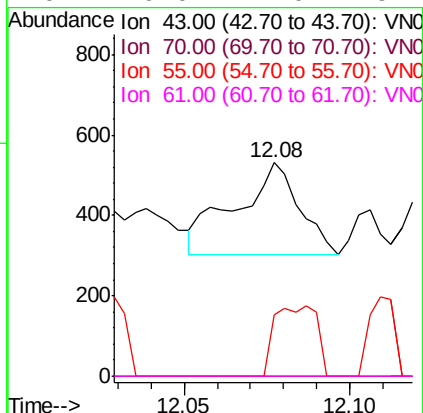
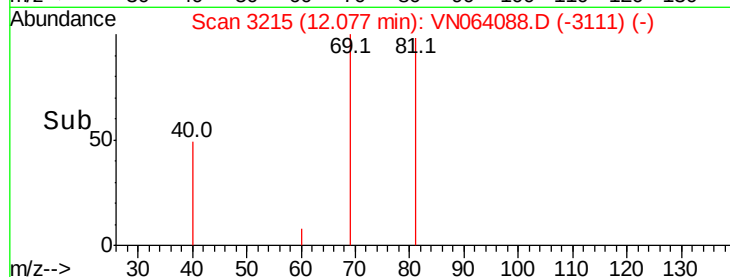
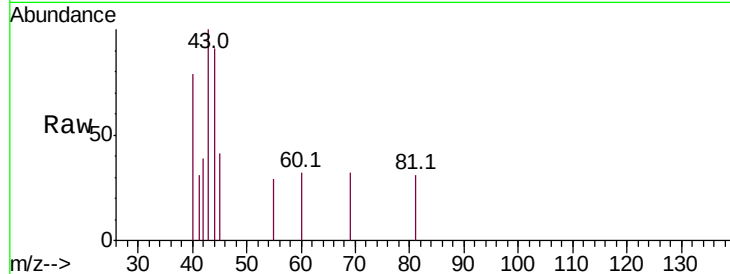




#74
N-amvl acetate
Concen: 2.266 ug/l
RT: 12.08 min Scan# 3215
Delta R.T. 0.03 min
Lab File: VN064088.D
Acq: 12 Oct 2020 19:26

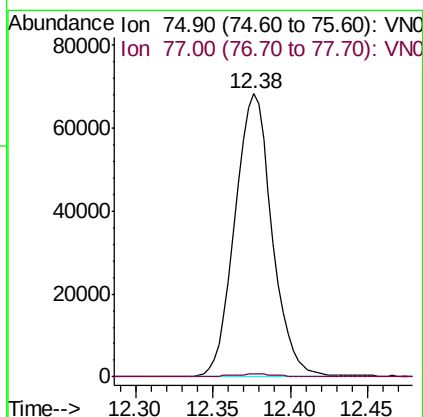
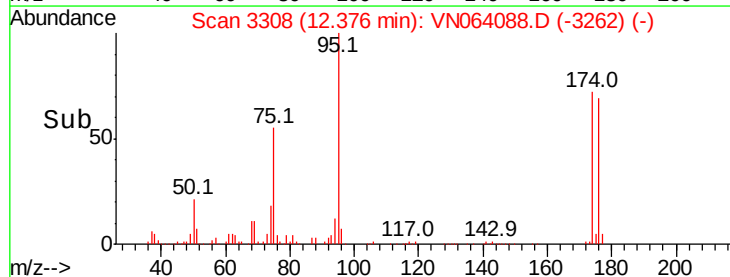
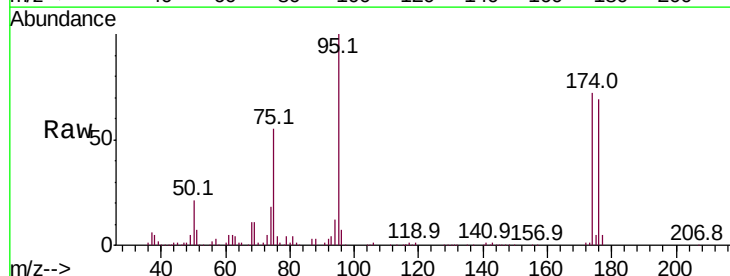
Instrument :
MSVOA_N
ClientSampled :
OH-WC-J6-3-6

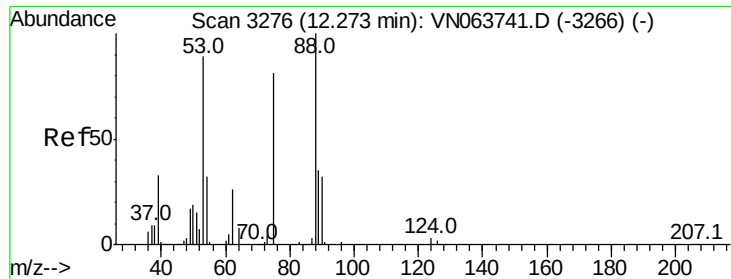
Tot Ion: 43 Resp: 305
Ion Ratio Lower Upper
43 100
70 0.0 29.8 44.8#
55 51.5 17.9 26.9#
61 0.0 17.0 25.4#



#76
1,2,3-Trichloropropane
Concen: 30.277 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064088.D
Acq: 12 Oct 2020 19:26

Tgt Ion: 75 Resp: 114178
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

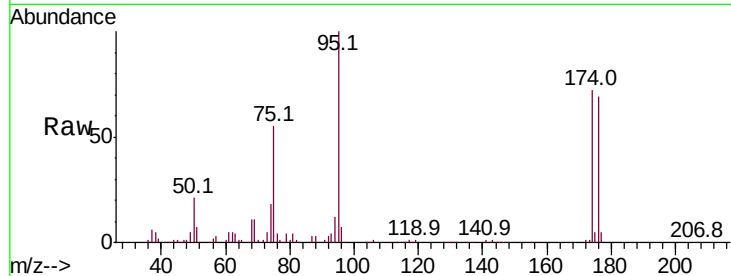




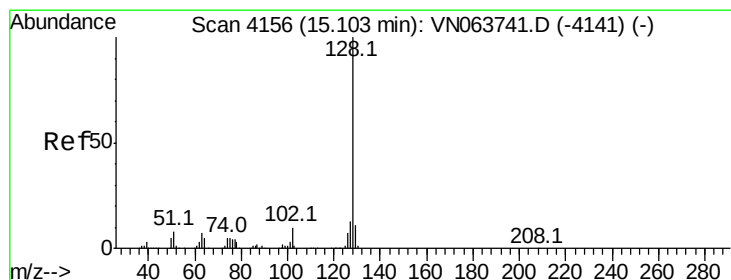
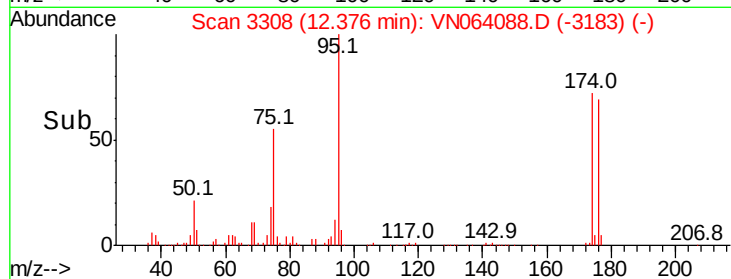
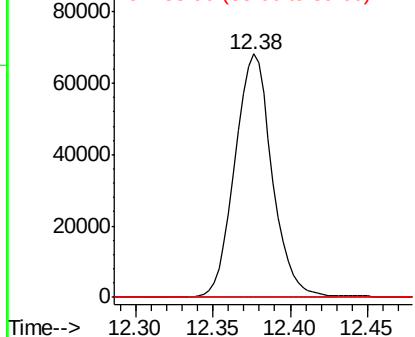
#81
trans-1,4-Dichloro-2-butene
Concen: 87.204 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN064088.D
Acq: 12 Oct 2020 19:26

Instrument :
MSVOA_N
ClientSampleId :
OH-WC-J6-3-6

Tot Ion: 75 Resp: 114178
Ion Ratio Lower Upper
75 100
53 0.1 88.2 132.2#
89 0.0 36.0 54.0#

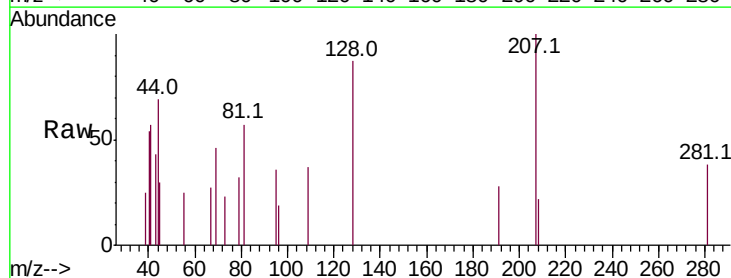


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0



#95
Naphthalene
Concen: 2.027 ug/l
RT: 15.12 min Scan# 4162
Delta R.T. 0.02 min
Lab File: VN064088.D
Acq: 12 Oct 2020 19:26

Tgt Ion: 128 Resp: 987
Ion Ratio Lower Upper
128 100
127 0.0 10.5 15.7#
129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

