

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101220\
 Data File : VN064091.D
 Acq On : 12 Oct 2020 20:38
 Operator : JC/MD
 Sample : L4333-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 OH-WC-C-C1

Quant Time: Oct 13 01:10:14 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	226286	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	414617	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	434245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	171406	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	192482	51.49	ug/l	0.00
Spiked Amount			Recovery	=	102.98%	
35) Dibromofluoromethane	7.55	113	86661	30.12	ug/l	0.00
Spiked Amount			Recovery	=	60.24%	
50) Toluene-d8	10.06	98	537304	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	
62) 4-Bromofluorobenzene	12.38	95	207213	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	

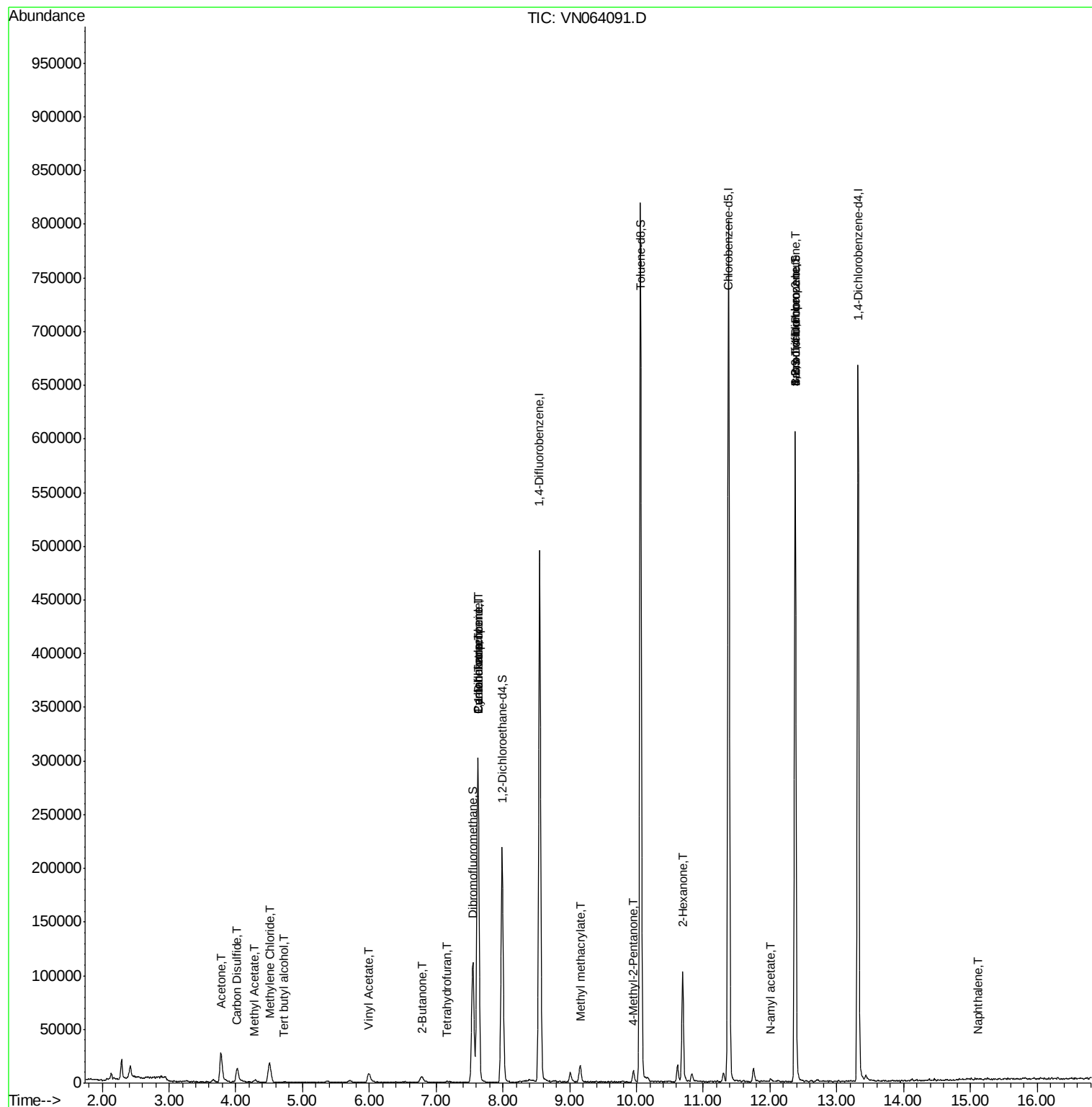
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	185	0.448	ug/l #	71
16) Acetone	3.78	43	49342	42.876	ug/l	98
17) Carbon Disulfide	4.00	76	467	0.775	ug/l #	76
18) Methyl Acetate	4.27	43	933	0.312	ug/l #	54
20) Methylene Chloride	4.50	84	12060	4.664	ug/l	92
23) Vinyl Acetate	5.99	43	1621	0.225	ug/l #	75
25) 2-Butanone	6.80	43	4584	2.810	ug/l	94
29) Tetrahydrofuran	7.16	42	387	0.354	ug/l #	48
31) Cyclohexane	7.62	56	6016	1.386	ug/l #	13
36) 1,1-Dichloropropene	7.63	75	20329	4.840	ug/l #	50
38) Carbon Tetrachloride	7.63	117	24685	5.241	ug/l #	14
48) Methyl methacrylate	9.15	41	6130	1.802	ug/l #	20
51) 4-Methyl-2-Pentanone	9.95	43	8541	2.114	ug/l	91
59) 2-Hexanone	10.69	43	82657	27.544	ug/l #	28
71) Bromoform	12.37	173	527	0.202	ug/l #	30
74) N-amyl acetate	12.00	43	1099	2.397	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	111337	29.466	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	111337	84.867	ug/l #	6
95) Naphthalene	15.11	128	389	1.965	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
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

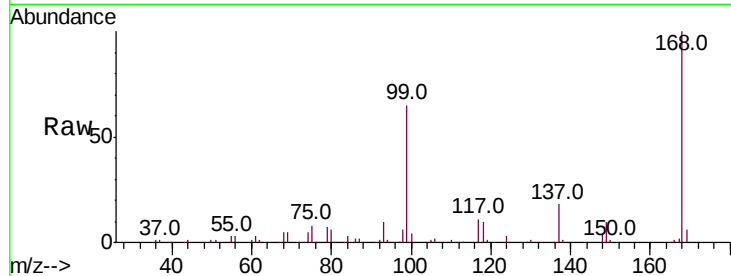
OH-WC-C-C1

Tot Ion:168 Resp: 226286

Ion Ratio Lower Upper

168 100

99 64.6 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

100000

80000

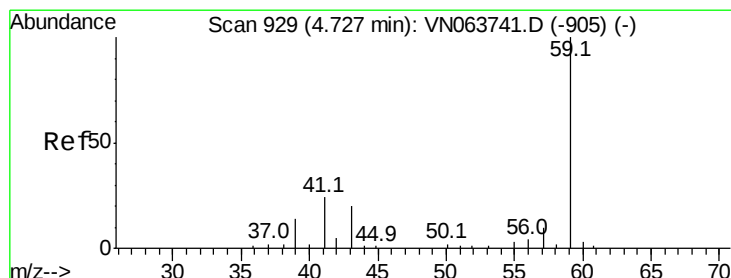
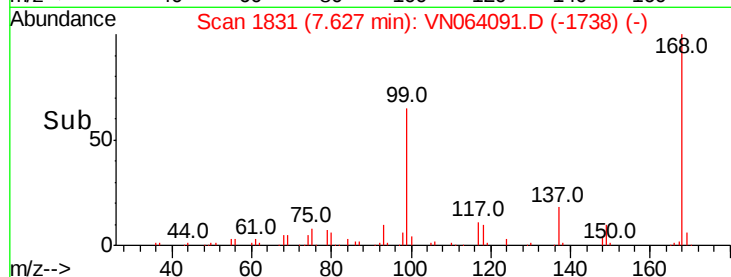
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.448 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.00 min

Lab File: VN064091.D

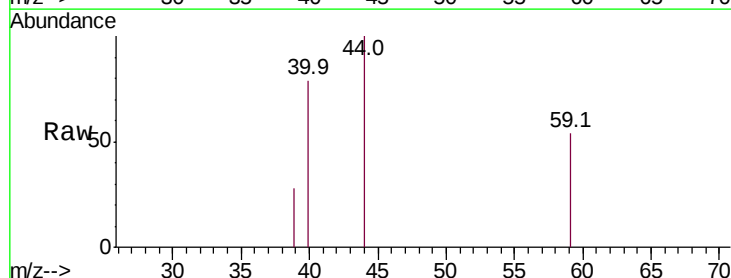
Acq: 12 Oct 2020 20:38

Tgt Ion: 59 Resp: 185

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.72

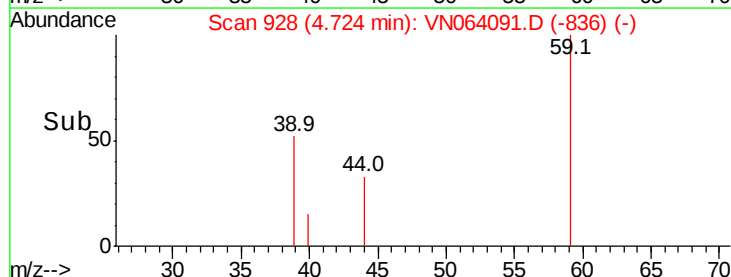
300

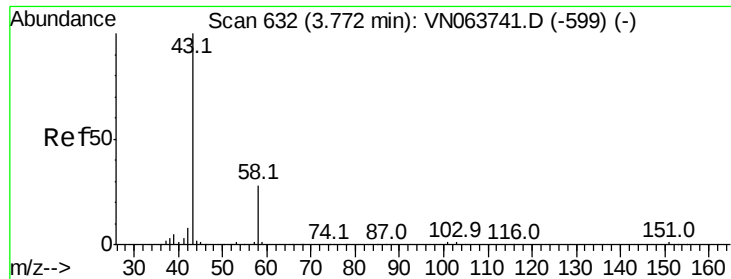
200

100

0

Time-->





#16

Acetone

Concen: 42.876 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

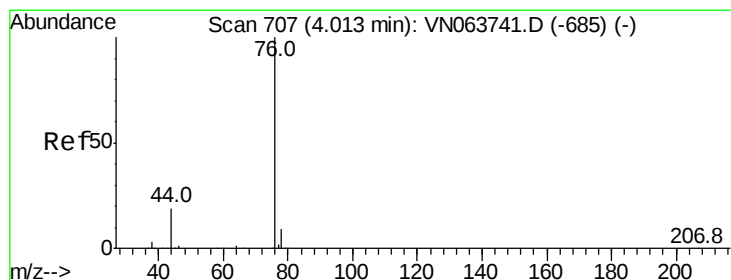
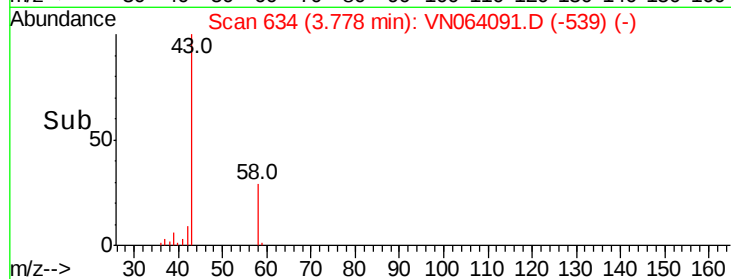
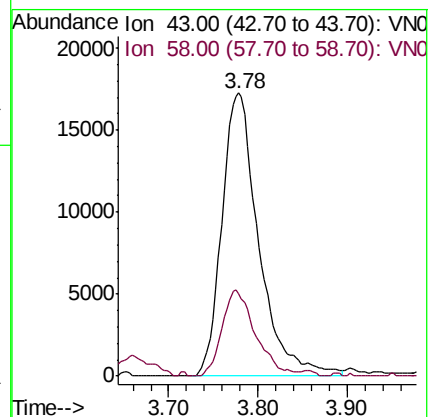
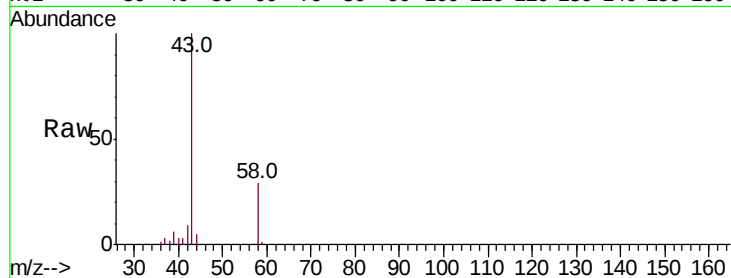
OH-WC-C-C1

Tot Ion: 43 Resp: 49342

Ion Ratio Lower Upper

43 100

58 29.1 22.3 33.5



#17

Carbon Disulfide

Concen: 0.775 ug/l

RT: 4.00 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN064091.D

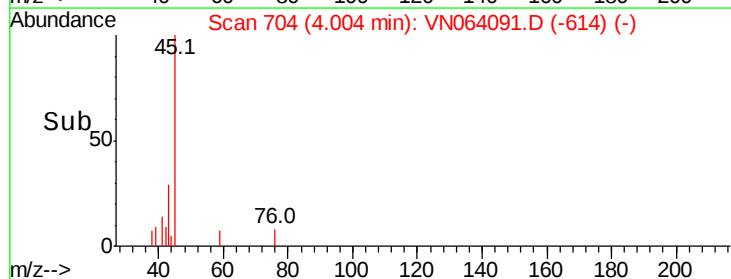
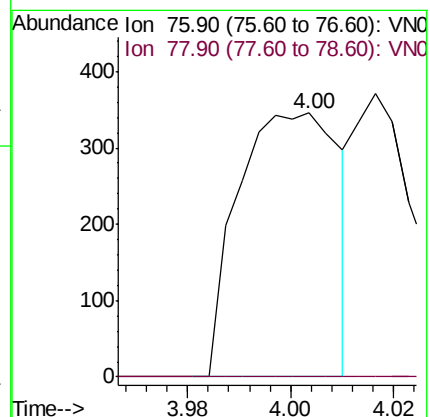
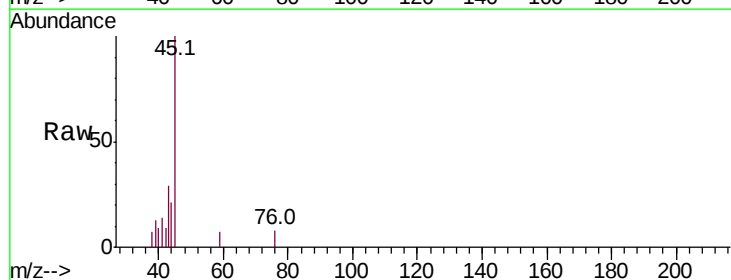
Acq: 12 Oct 2020 20:38

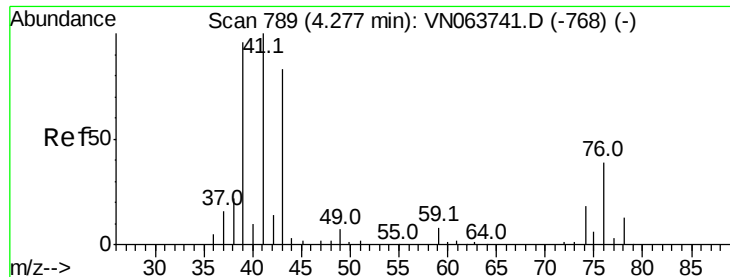
Tgt Ion: 76 Resp: 467

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#

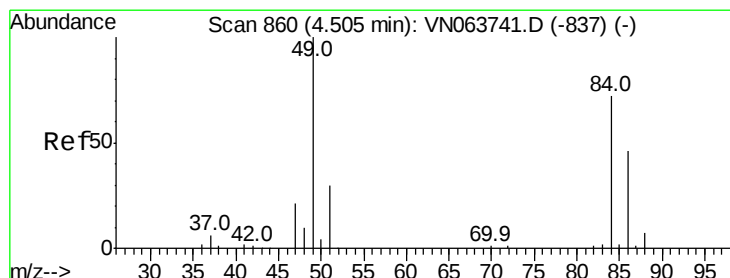
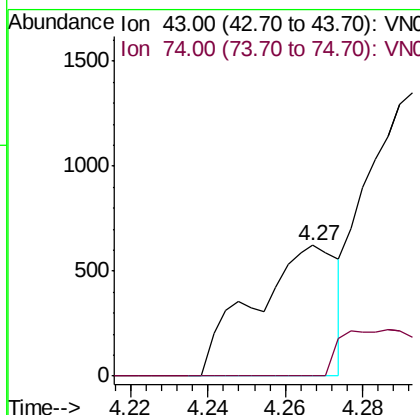
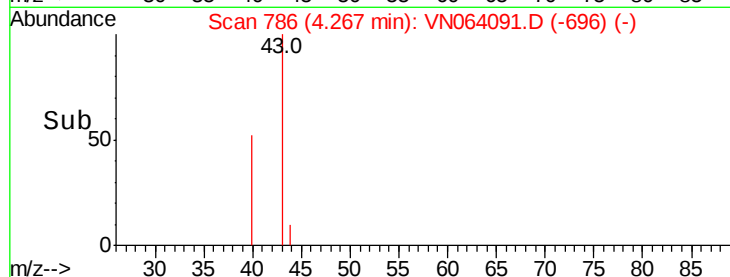
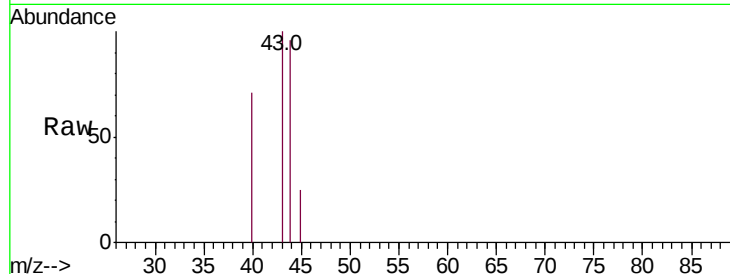




#18
Methvl Acetate
Concen: 0.312 ug/l
RT: 4.27 min Scan# 786
Delta R.T. -0.01 min
Lab File: VN064091.D
Acq: 12 Oct 2020 20:38

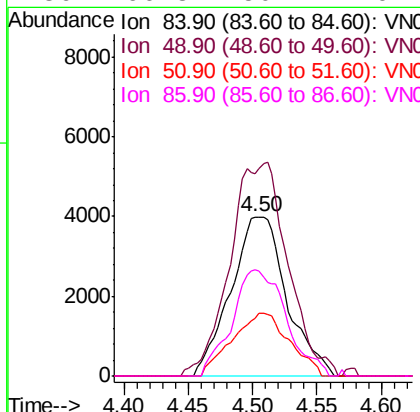
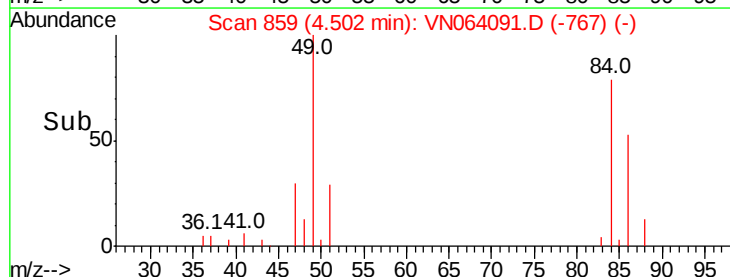
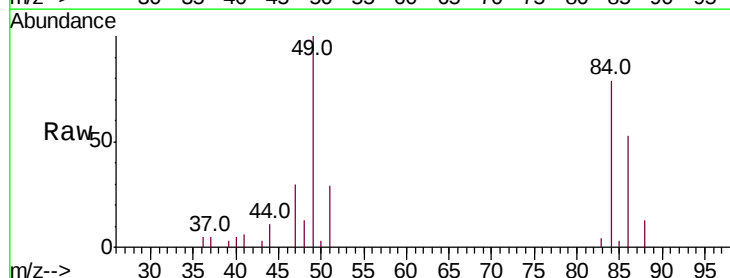
Instrument :
MSVOA_N
ClientSampled :
OH-WC-C-C1

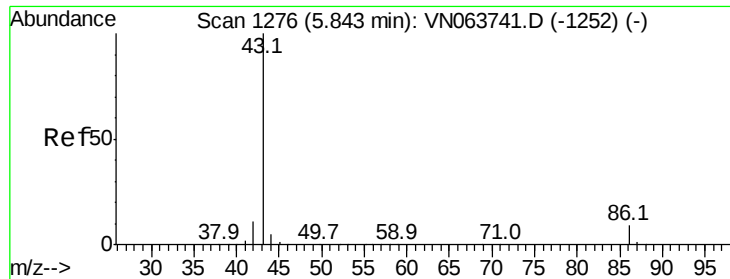
Tot Ion: 43 Resp: 933
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 4.664 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064091.D
Acq: 12 Oct 2020 20:38

Tgt Ion: 84 Resp: 12060
Ion Ratio Lower Upper
84 100
49 127.1 110.4 165.6
51 36.4 33.3 49.9
86 66.8 50.7 76.1





#23

Vinyl Acetate

Concen: 0.225 ug/l

RT: 5.99 min Scan# 1323

Delta R.T. 0.15 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

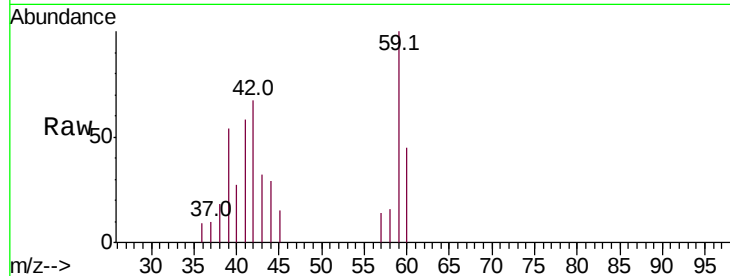
OH-WC-C-C1

Tot Ion: 43 Resp: 1621

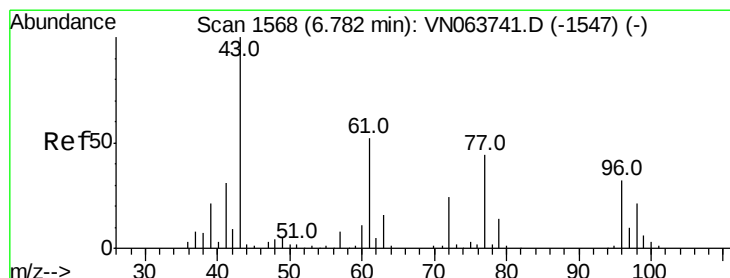
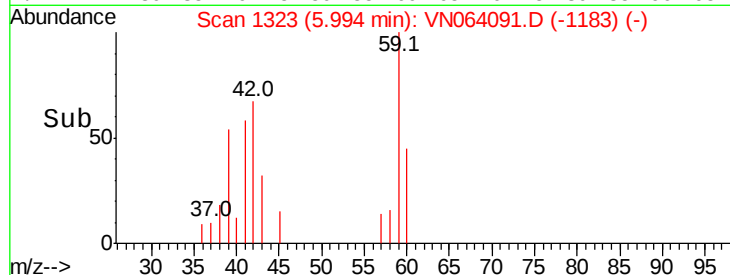
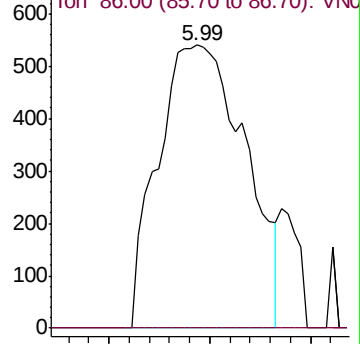
Ion Ratio Lower Upper

43 100

86 0.0 7.3 10.9#



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-1252) (-)



#25

2-Butanone

Concen: 2.810 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.02 min

Lab File: VN064091.D

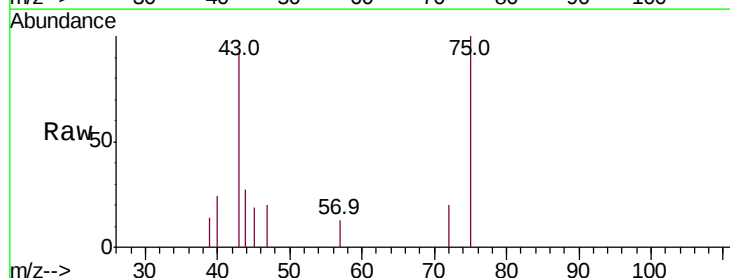
Acq: 12 Oct 2020 20:38

Tgt Ion: 43 Resp: 4584

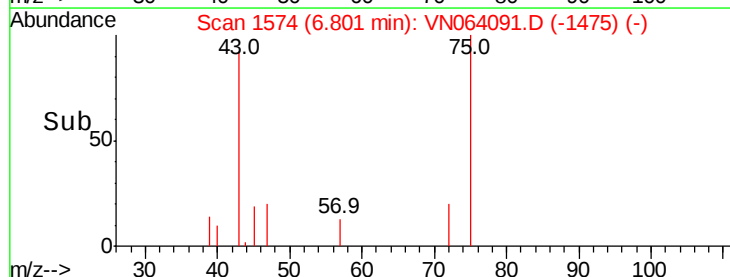
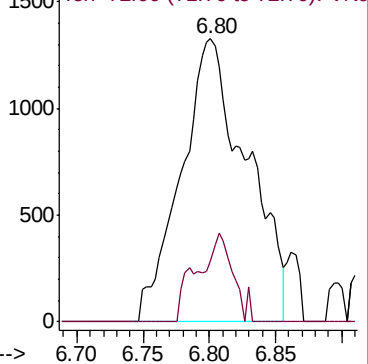
Ion Ratio Lower Upper

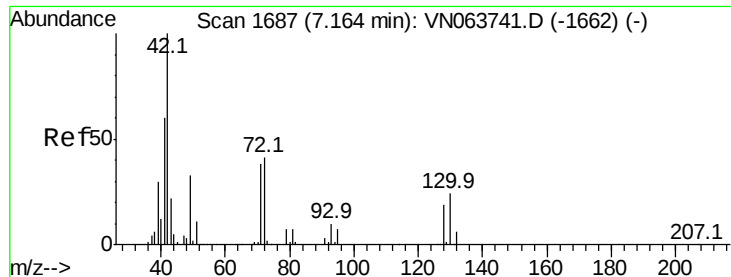
43 100

72 21.3 19.3 28.9



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-1547) (-)





#29

Tetrahydrofuran

Concen: 0.354 ug/l

RT: 7.16 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

OH-WC-C-C1

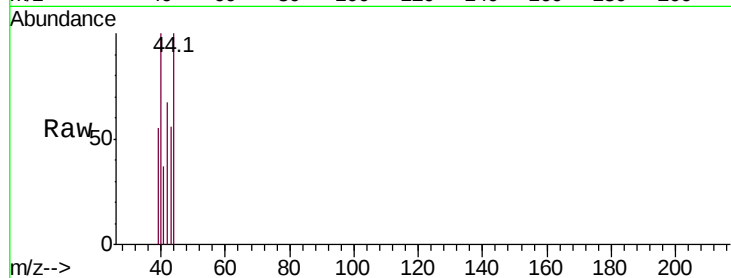
Tot Ion: 42 Resp: 387

Ion Ratio Lower Upper

42 100

72 0.0 32.8 49.2#

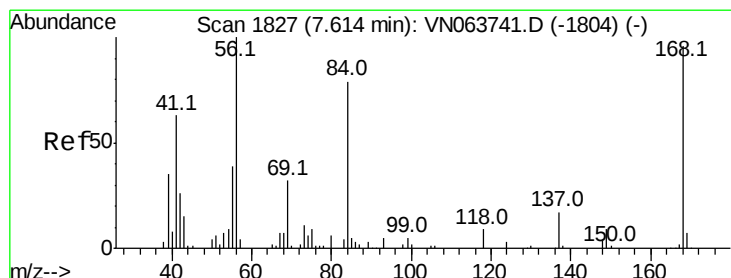
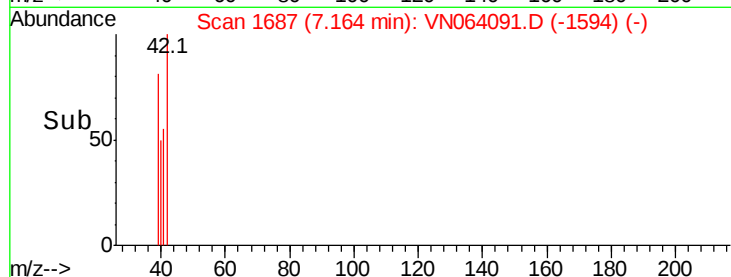
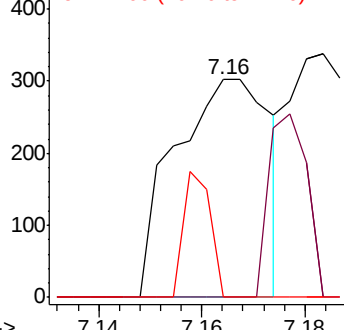
71 16.0 30.6 45.8#



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



#31

Cyclohexane

Concen: 1.386 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

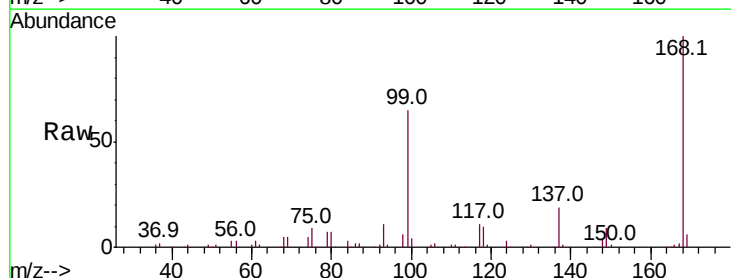
Tgt Ion: 56 Resp: 6016

Ion Ratio Lower Upper

56 100

69 163.0 25.4 38.2#

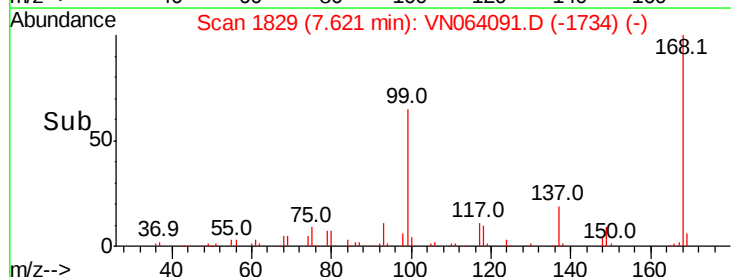
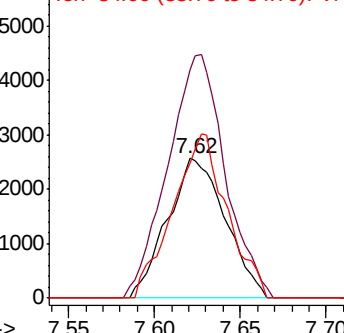
84 102.7 63.3 94.9#

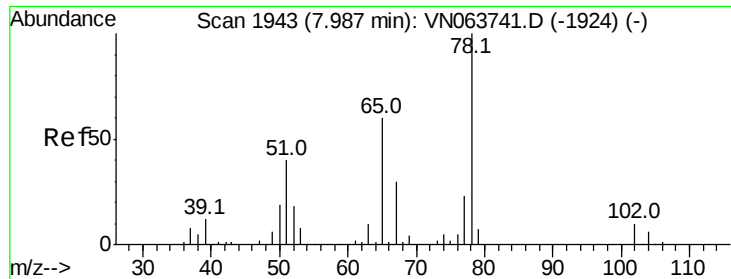


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

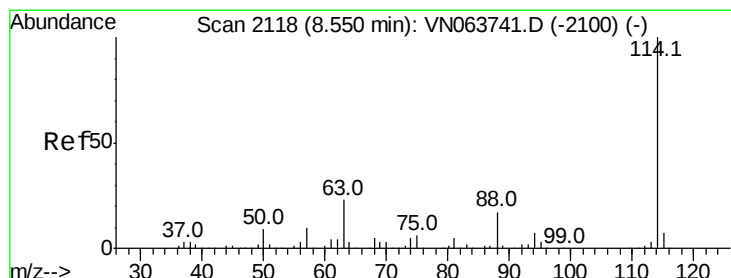
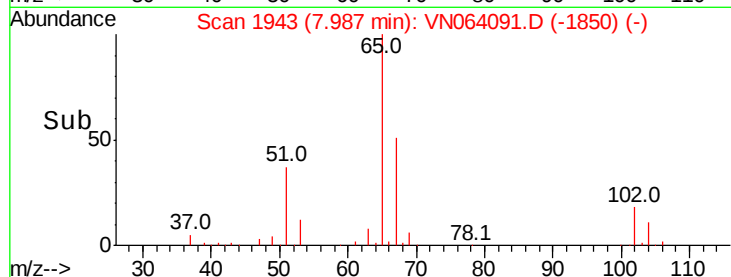
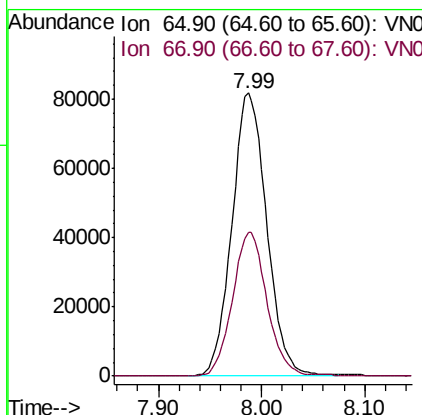
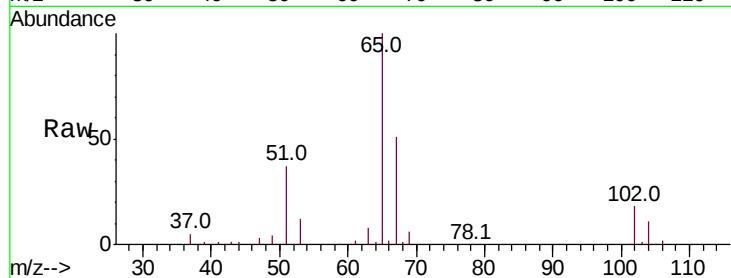




#33
 1,2-Dichloroethane-d4
 Concen: 51.488 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064091.D
 Acq: 12 Oct 2020 20:38

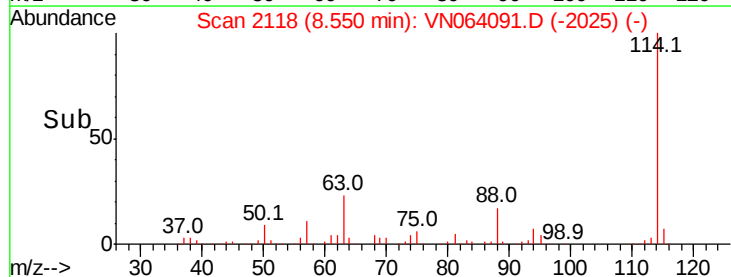
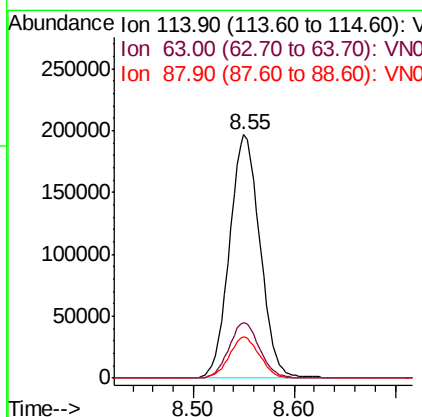
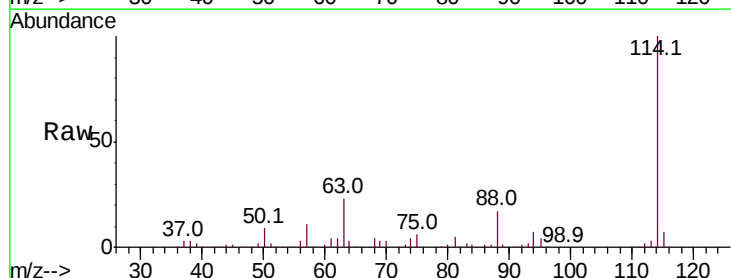
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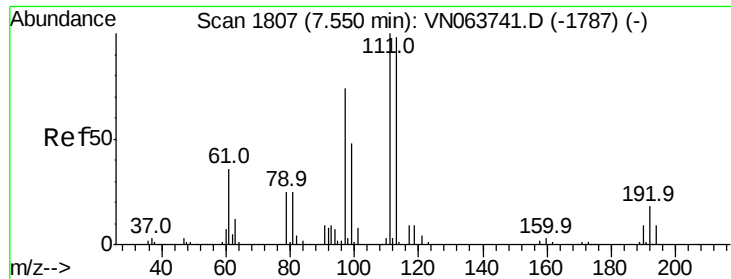
Tot Ion: 65 Resp: 192482
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 99.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064091.D
 Acq: 12 Oct 2020 20:38

Tgt Ion: 114 Resp: 414617
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 45.0
 88 17.2 0.0 34.0

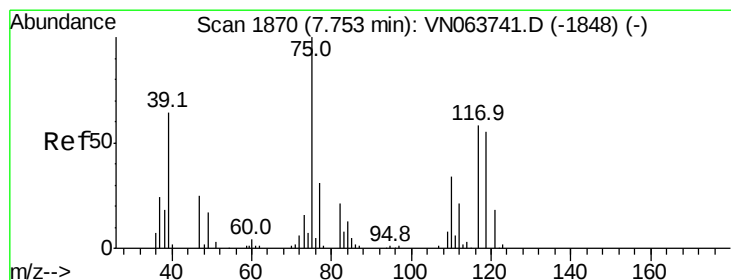
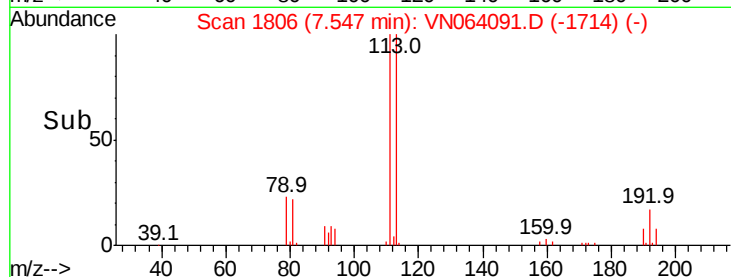
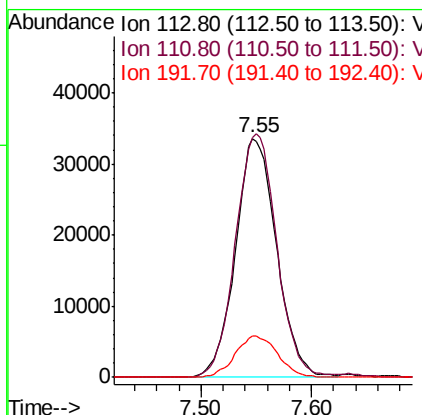
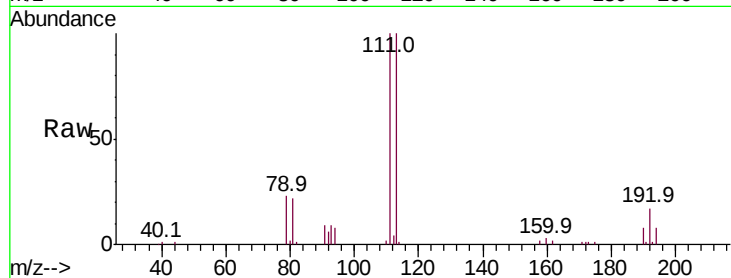




#35
Dibromofluoromethane
Concen: 30.123 ug/l
RT: 7.55 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VN064091.D
Acq: 12 Oct 2020 20:38

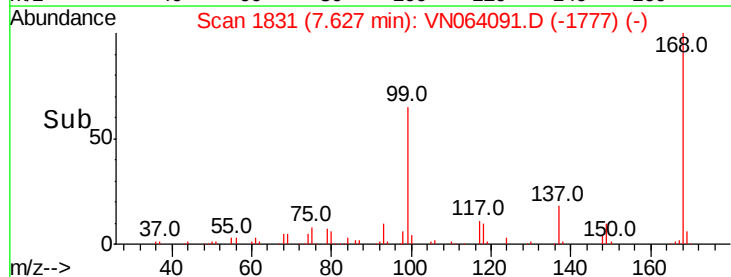
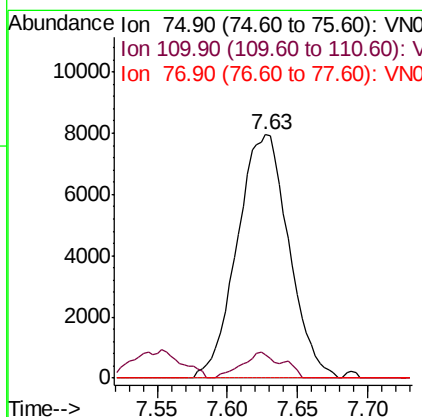
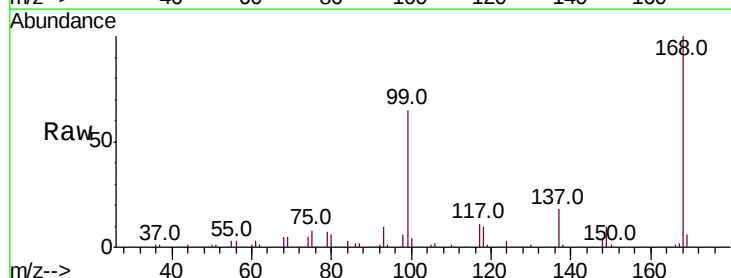
Instrument :
MSVOA_N
ClientSampleId :
OH-WC-C-C1

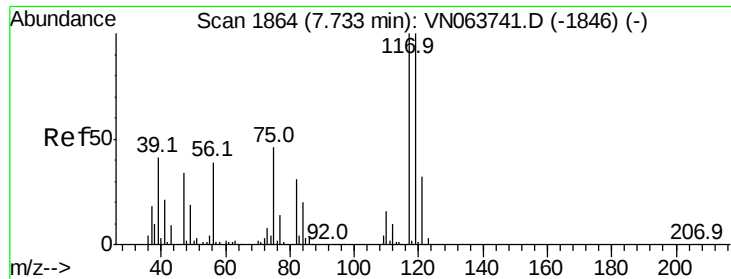
Tot Ion:113 Resp: 86661
Ion Ratio Lower Upper
113 100
111 102.0 81.8 122.8
192 17.7 14.2 21.2



#36
1,1-Dichloropropene
Concen: 4.840 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.13 min
Lab File: VN064091.D
Acq: 12 Oct 2020 20:38

Tgt Ion: 75 Resp: 20329
Ion Ratio Lower Upper
75 100
110 8.2 16.9 50.6#
77 0.0 24.5 36.7#

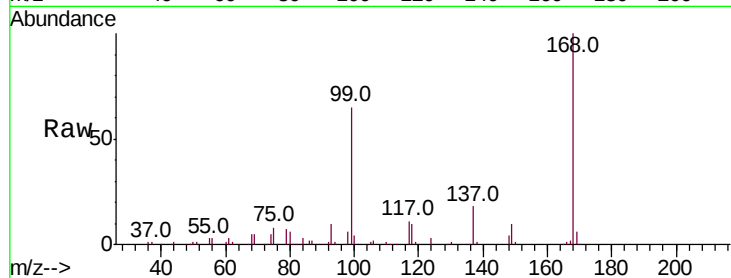




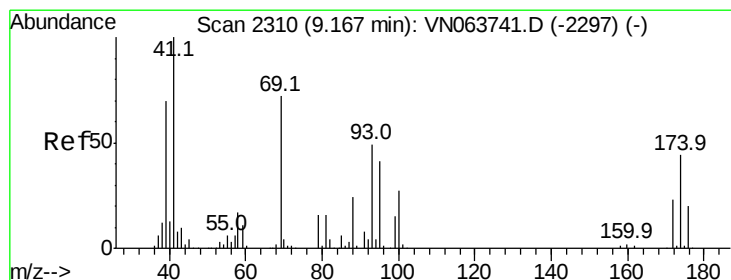
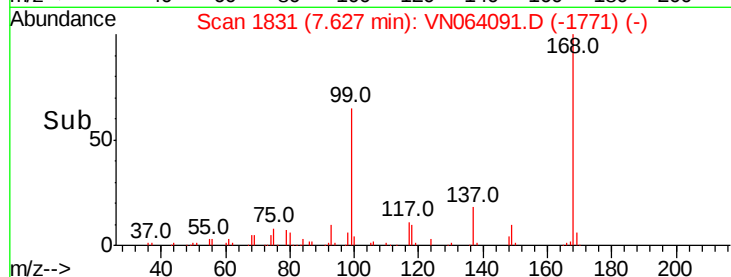
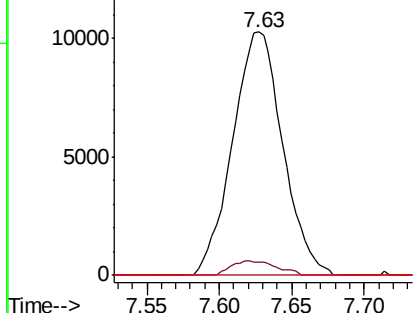
#38
Carbon Tetrachloride
Concen: 5.241 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064091.D
Acq: 12 Oct 2020 20:38

Instrument :
MSVOA_N
ClientSampleId :
OH-WC-C-C1

Tot Ion:117 Resp: 24685
Ion Ratio Lower Upper
117 100
119 5.5 80.1 120.1#
121 0.0 25.7 38.5#

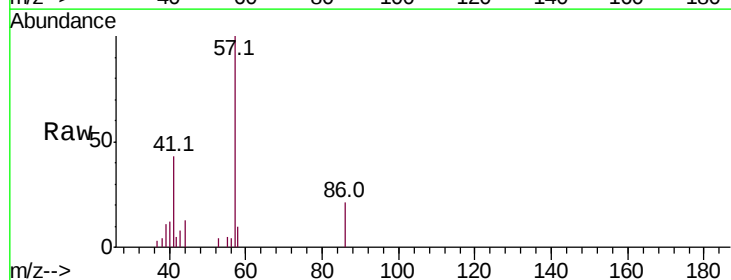


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

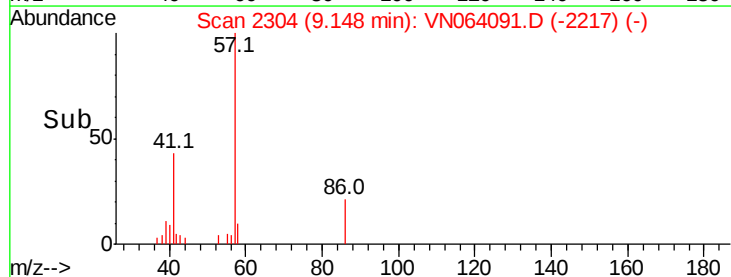
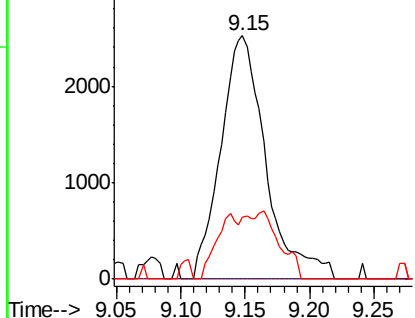


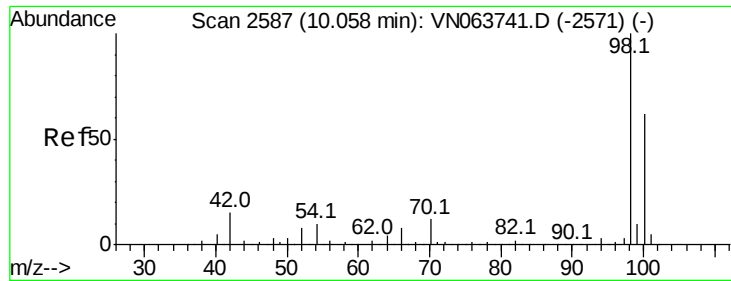
#48
Methyl methacrylate
Concen: 1.802 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064091.D
Acq: 12 Oct 2020 20:38

Tgt Ion: 41 Resp: 6130
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 13.1 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: 49.266 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

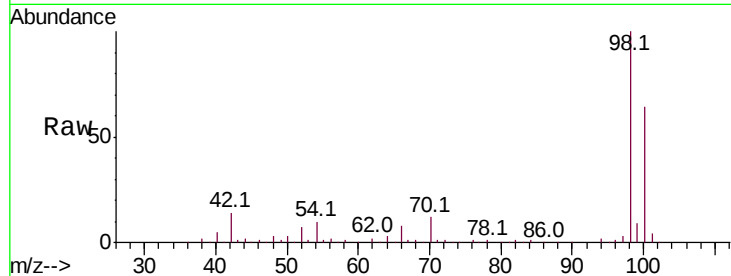
OH-WC-C-C1

Tot Ion: 98 Resp: 537304

Ion Ratio Lower Upper

98 100

100 63.7 49.8 74.6



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

Ion 100.00 (99.70 to 100.70): VN063741.D (-2571) (-)

10.06

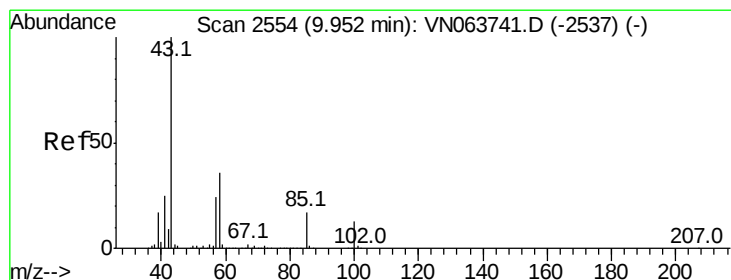
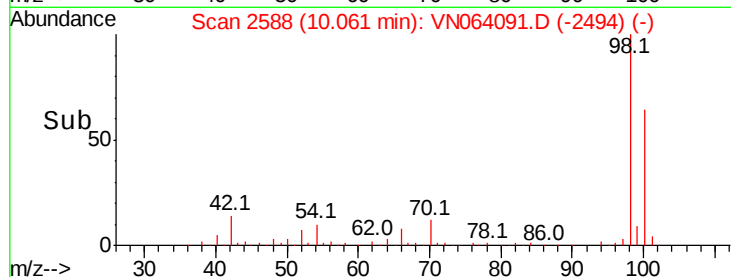
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.114 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064091.D

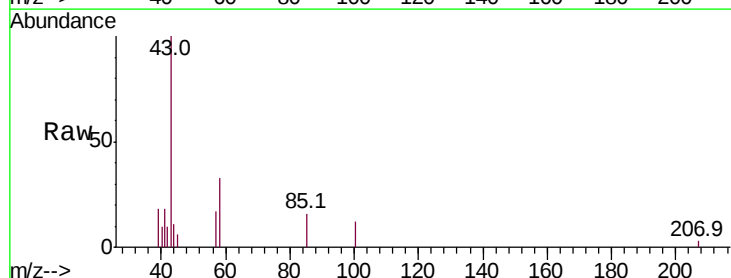
Acq: 12 Oct 2020 20:38

Tgt Ion: 43 Resp: 8541

Ion Ratio Lower Upper

43 100

58 30.5 28.4 42.6



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

Ion 58.00 (57.70 to 58.70): VN063741.D (-2537) (-)

9.95

5000

4000

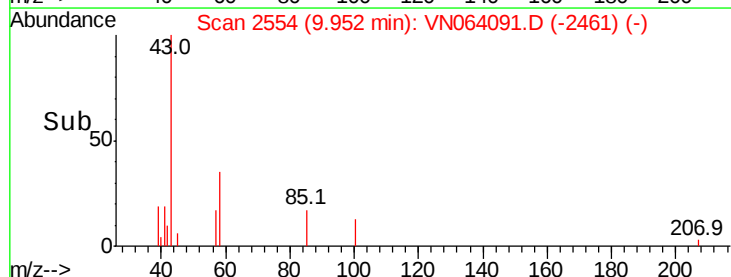
3000

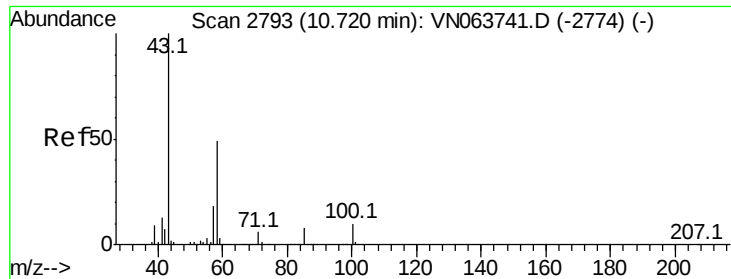
2000

1000

0

Time-->





#59

2-Hexanone

Concen: 27.544 ug/l

RT: 10.69 min Scan# 2784

Delta R.T. -0.03 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

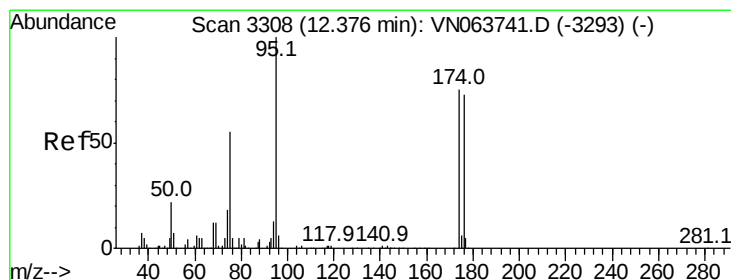
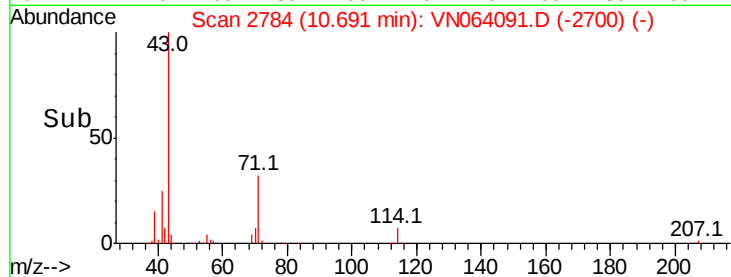
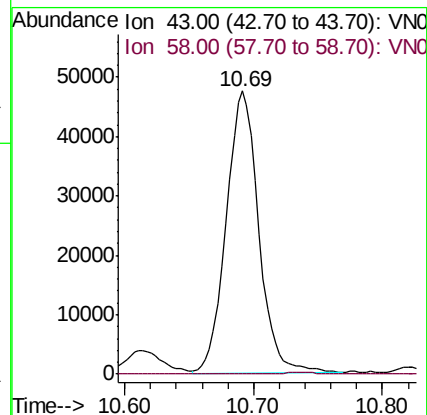
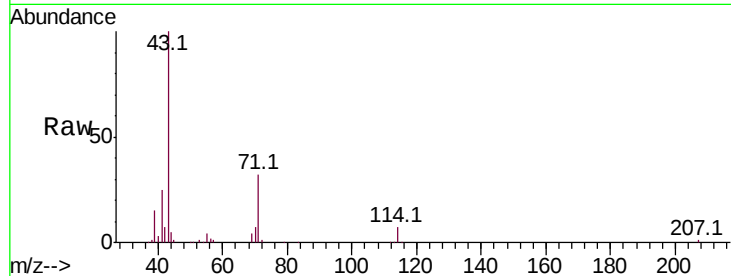
OH-WC-C-C1

Tot Ion: 43 Resp: 82657

Ion Ratio Lower Upper

43 100

58 0.0 24.6 73.8#



#62

4-Bromofluorobenzene

Concen: 50.543 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

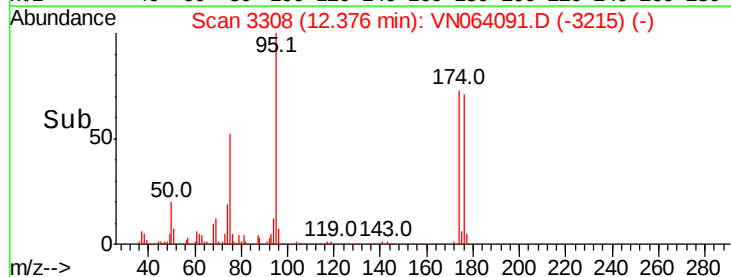
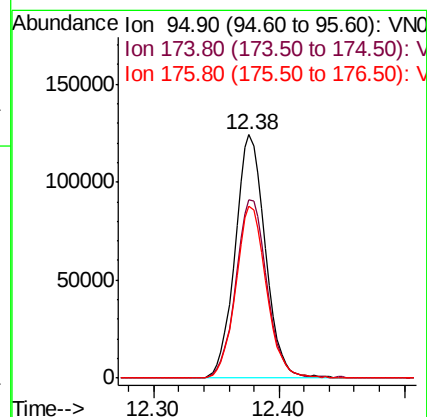
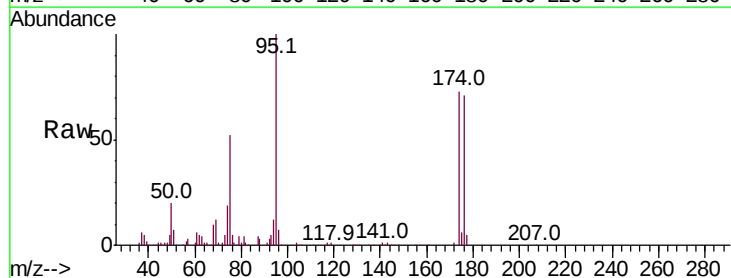
Tgt Ion: 95 Resp: 207213

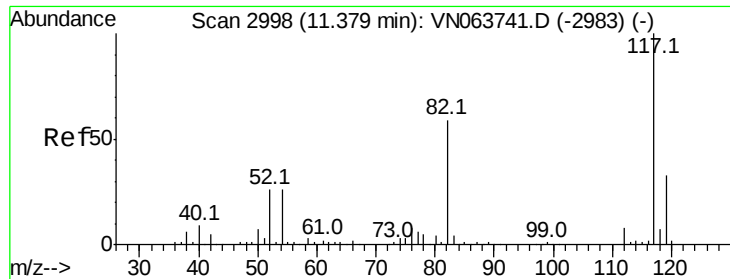
Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.6

176 71.7 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

OH-WC-C-C1

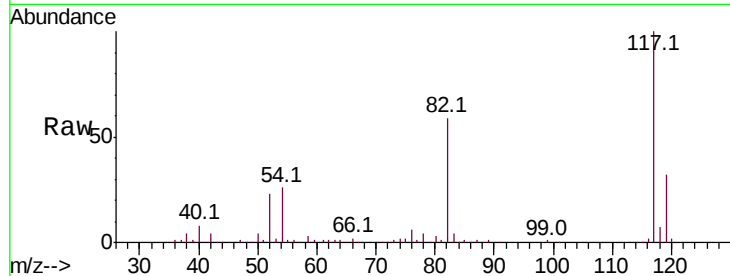
Tot Ion:117 Resp: 434245

Ion Ratio Lower Upper

117 100

82 59.5 47.4 71.2

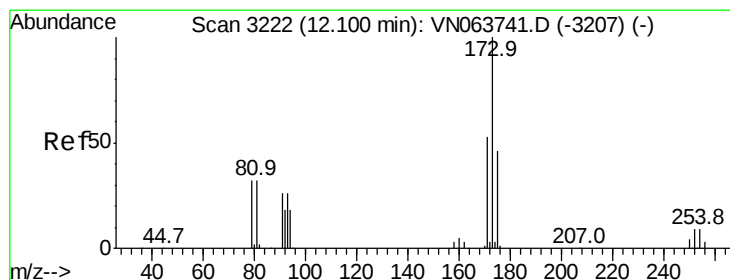
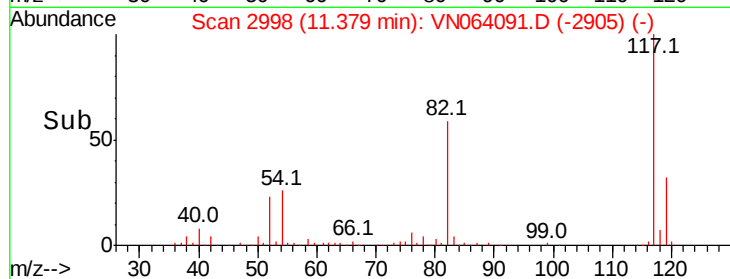
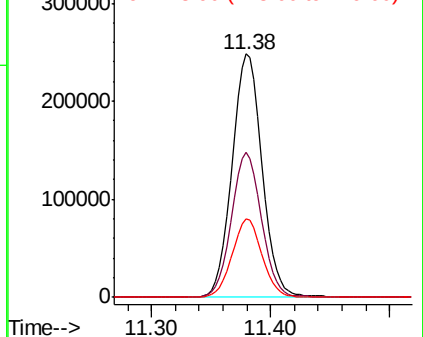
119 32.4 26.4 39.6



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



#71

Bromoform

Concen: 0.202 ug/l

RT: 12.37 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

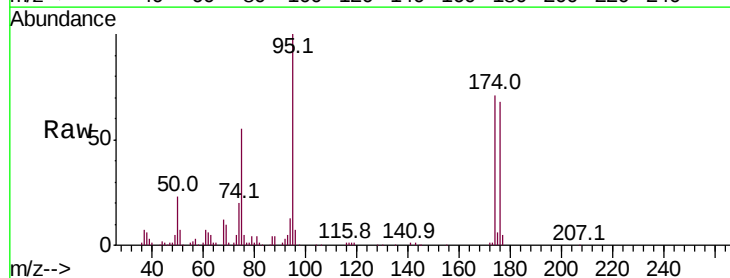
Tgt Ion:173 Resp: 527

Ion Ratio Lower Upper

173 100

175 0.0 23.5 70.5#

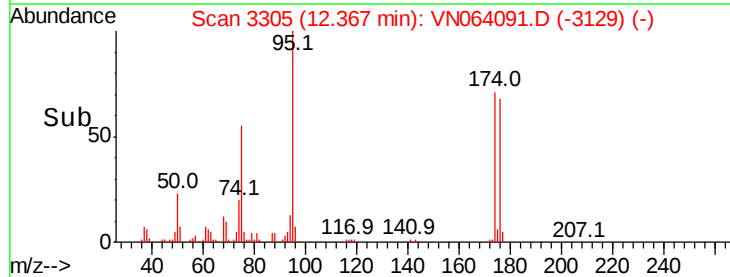
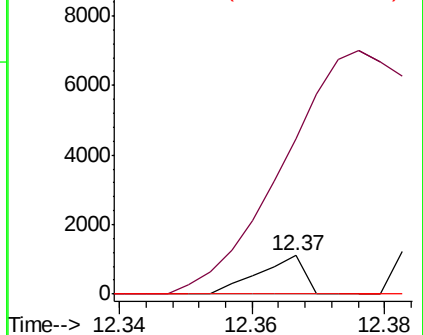
254 0.0 0.0 0.0

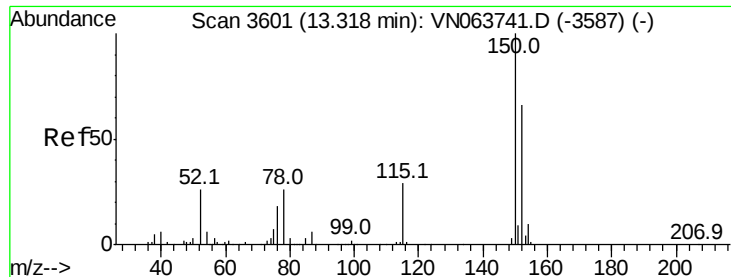


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

OH-WC-C-C1

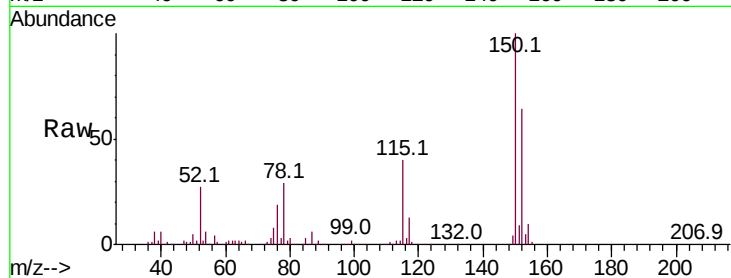
Tot Ion:152 Resp: 171406

Ion Ratio Lower Upper

152 100

115 63.3 31.3 93.8

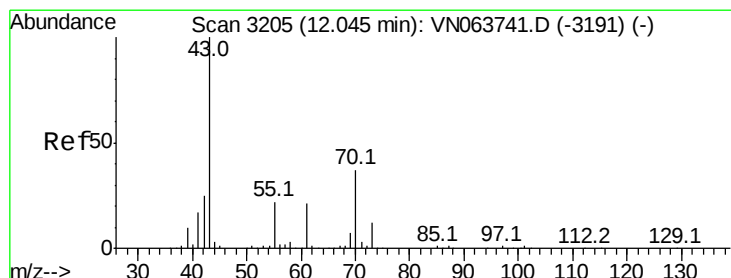
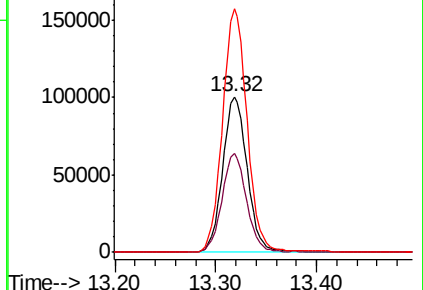
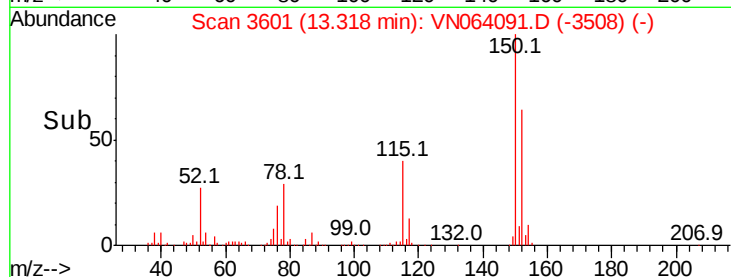
150 155.5 0.0 341.8



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-ethyl acetate

Concen: 2.397 ug/l

RT: 12.00 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Tgt Ion: 43 Resp: 1099

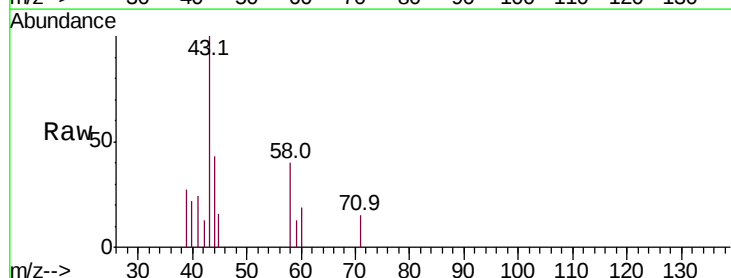
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 0.0 17.9 26.9#

61 0.0 17.0 25.4#

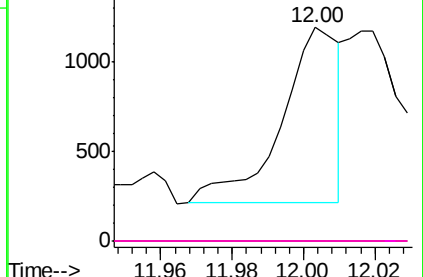
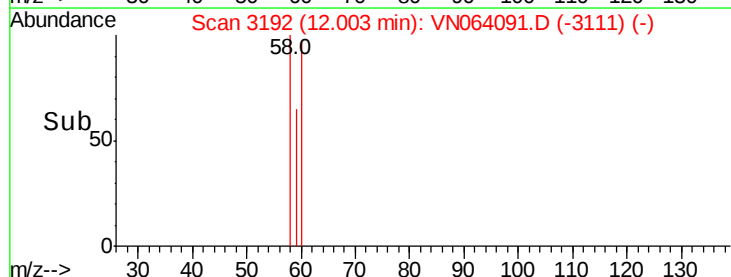


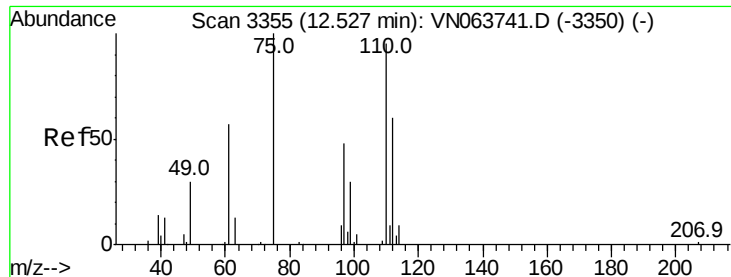
Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 70.00 (69.70 to 70.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 61.00 (60.70 to 61.70): VN





#76

1,2,3-Trichloropropane

Concen: 29.466 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampled :

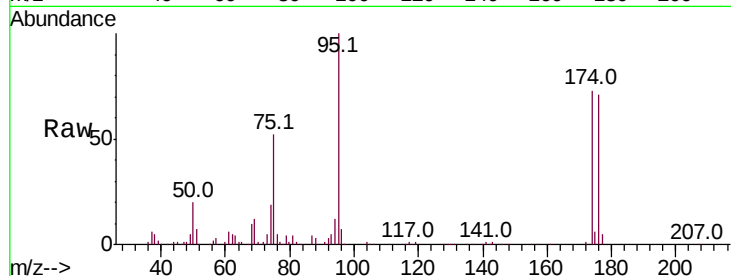
OH-WC-C-C1

Tot Ion: 75 Resp: 111337

Ion Ratio Lower Upper

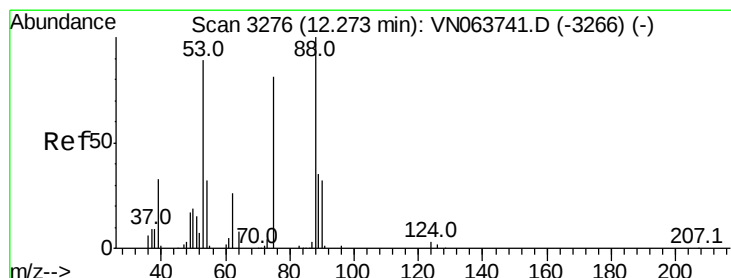
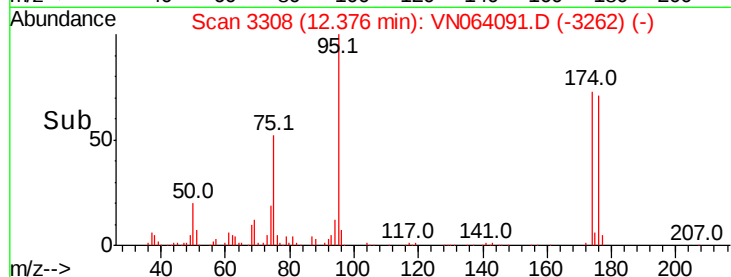
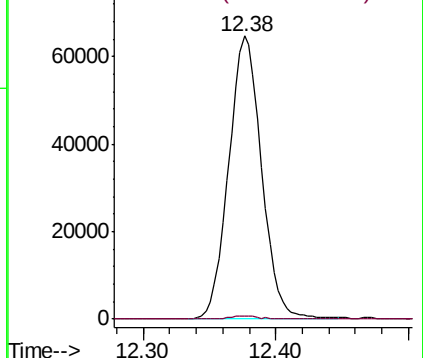
75 100

77 0.9 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: 84.867 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

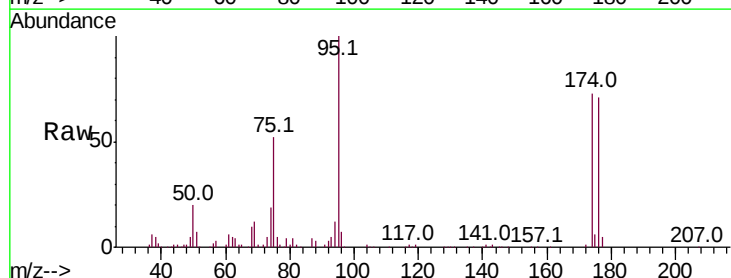
Tgt Ion: 75 Resp: 111337

Ion Ratio Lower Upper

75 100

53 0.0 88.2 132.2#

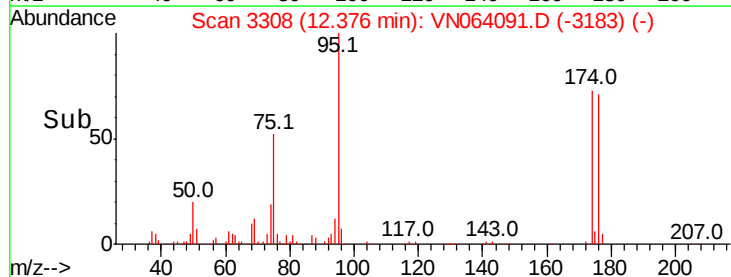
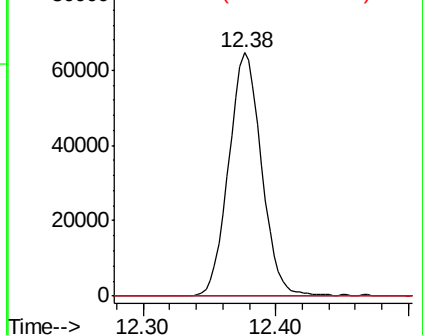
89 0.0 36.0 54.0#

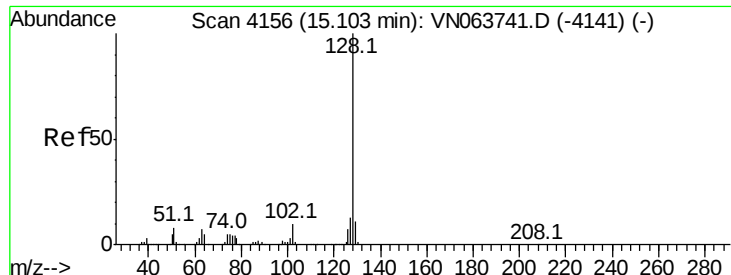


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 1.965 ug/l

RT: 15.11 min Scan# 4157

Delta R.T. 0.00 min

Lab File: VN064091.D

Acq: 12 Oct 2020 20:38

Instrument :

MSVOA_N

ClientSampleId :

OH-WC-C-C1

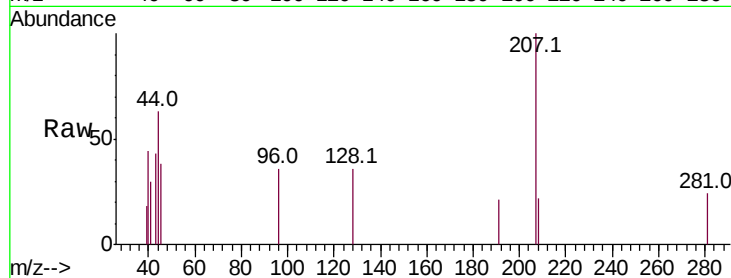
Tot Ion:128 Resp: 389

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

