

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051920\
 Data File : VN061496.D
 Acq On : 19 May 2020 20:14
 Operator : JC/MD
 Sample : L2645-03DL 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-4DL

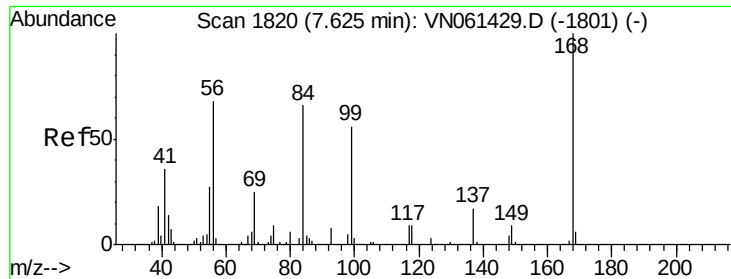
Quant Time: May 20 03:03:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	288973	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	527044	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	497613	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	205368	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	196429	45.55	ug/l	0.00
Spiked Amount 50.000			Recovery =	91.10%		
35) Dibromofluoromethane	7.55	113	150926	54.66	ug/l	0.00
Spiked Amount 50.000			Recovery =	109.32%		
50) Toluene-d8	10.06	98	642557	50.17	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.34%		
62) 4-Bromofluorobenzene	12.37	95	233010	48.70	ug/l	0.00
Spiked Amount 50.000			Recovery =	97.40%		

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	966	Below Cal	#	35
11) Tert butyl alcohol	4.73	59	38980	78.441	ug/l	99
16) Acetone	3.76	43	389	Below Cal	#	43
17) Carbon Disulfide	4.00	76	455	Below Cal	#	75
18) Methyl Acetate	4.25	43	67	Below Cal	#	49
19) Methyl tert-butyl Ether	4.99	73	18378	1.635	ug/l #	70
25) 2-Butanone	6.79	43	750	0.382	ug/l #	46
31) Cyclohexane	7.62	56	7172	Below Cal	#	1
36) 1,1-Dichloropropene	7.63	75	24072	4.885	ug/l #	50
38) Carbon Tetrachloride	7.63	117	30138	6.642	ug/l #	15
40) Benzene	8.00	78	3185	0.214	ug/l #	85
43) Isopropyl Acetate	8.09	43	2249	0.289	ug/l #	52
52) Toluene	10.13	92	4484	0.470	ug/l	96
67) Ethyl Benzene	11.48	91	16135	0.871	ug/l	98
68) m/p-Xylenes	11.59	106	18528	2.635	ug/l	91
69) o-Xylene	11.92	106	4055	0.596	ug/l	88
71) Bromoform	12.26	173	103	2.055	ug/l #	29
76) 1,2,3-Trichloropropane	12.37	75	122754	27.856	ug/l #	100
78) n-propylbenzene	12.56	91	10349	0.551	ug/l	94
80) 1,3,5-Trimethylbenzene	12.71	105	9952	0.737	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.37	75	122754	73.897	ug/l #	12
83) tert-Butylbenzene	13.01	119	4387	0.379	ug/l #	56
84) 1,2,4-Trimethylbenzene	13.01	105	37267	2.758	ug/l	100
95) Naphthalene	15.10	128	19651	1.815	ug/l #	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

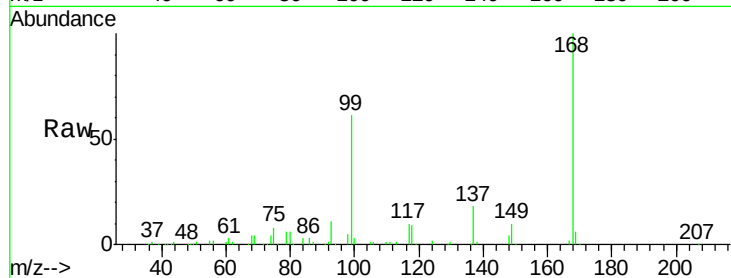
MW-4DL

Tot Ion:168 Resp: 288973

Ion Ratio Lower Upper

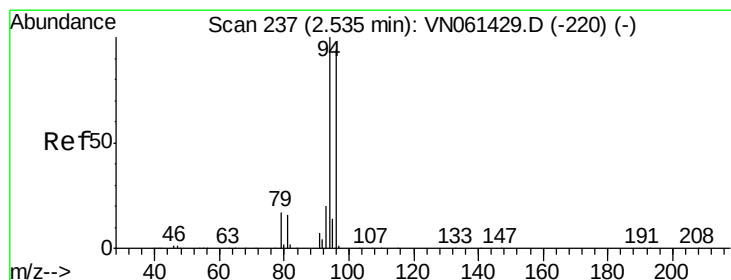
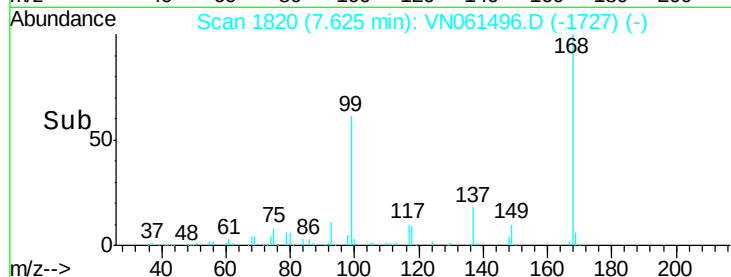
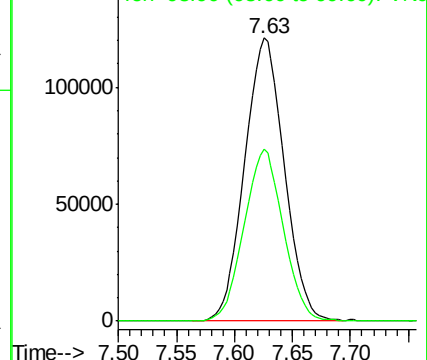
168 100

99 60.6 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN061496.D

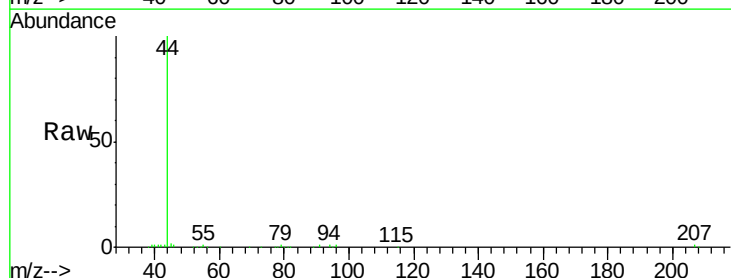
Acq: 19 May 2020 20:14

Tgt Ion: 94 Resp: 966

Ion Ratio Lower Upper

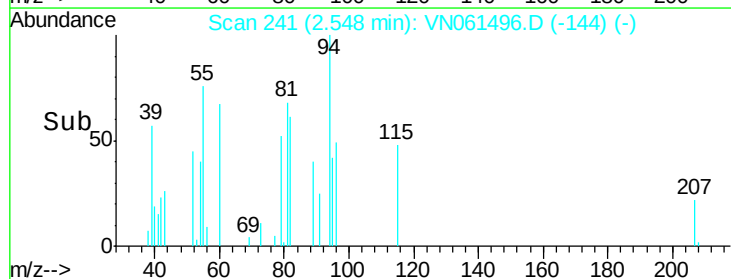
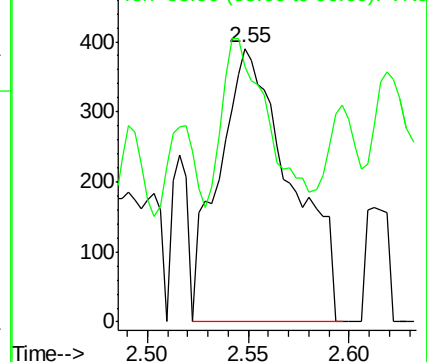
94 100

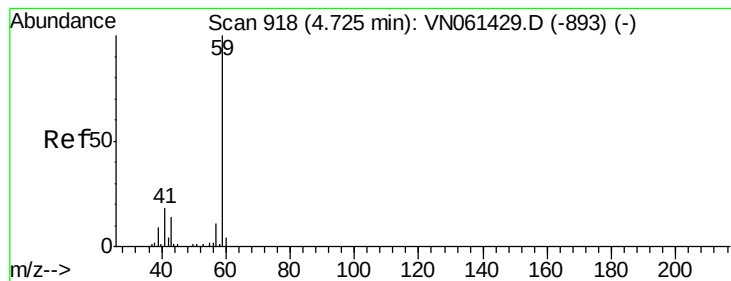
96 31.3 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO



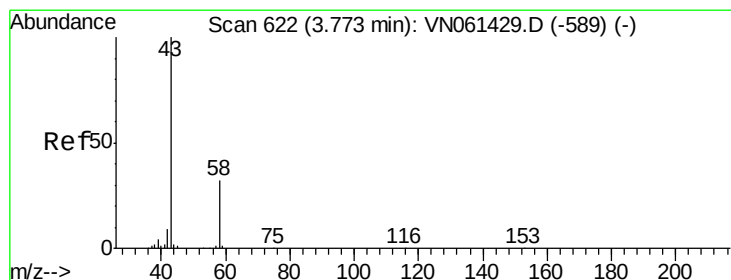
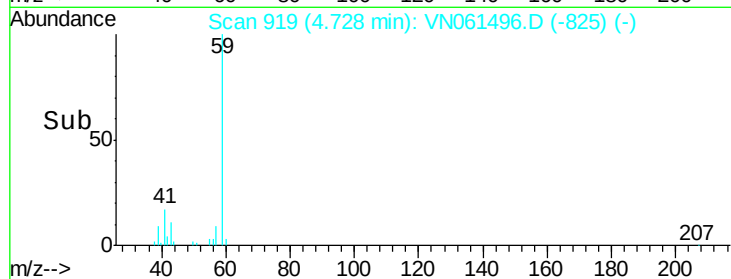
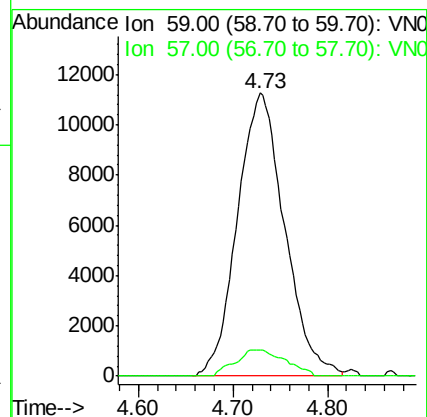
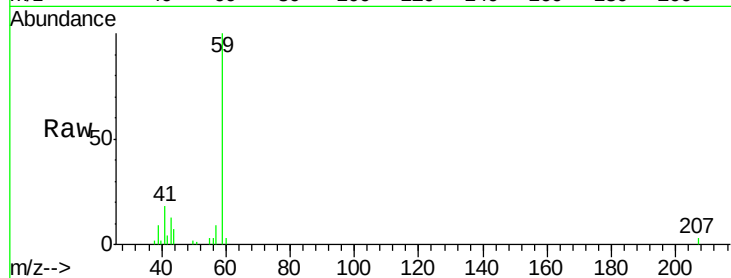


#11

Tert butyl alcohol
 Concen: 78.441 ug/l
 RT: 4.73 min Scan# 919
 Delta R.T. 0.00 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4DL

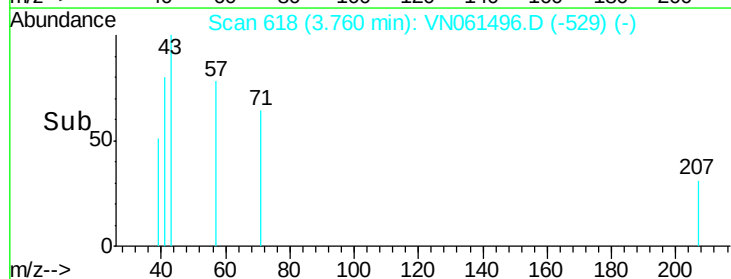
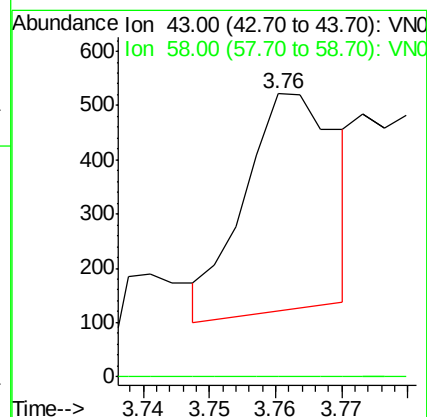
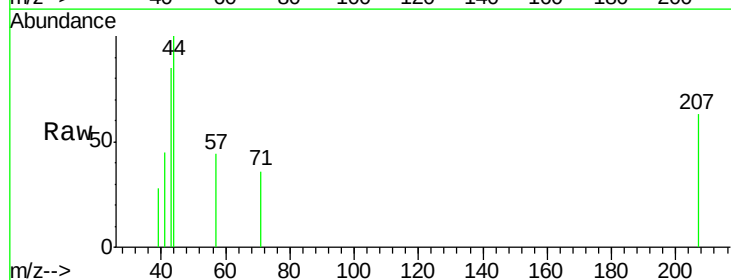
Tot Ion: 59 Resp: 38980
 Ion Ratio Lower Upper
 59 100
 57 9.8 8.2 12.2

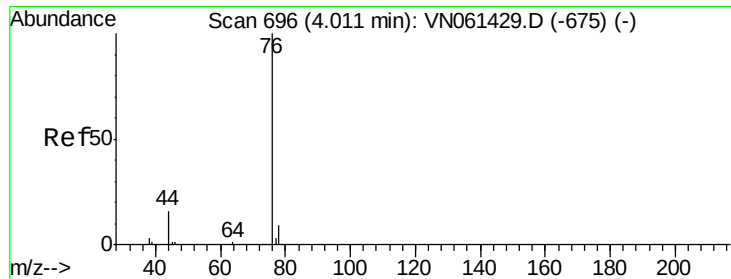


#16

Acetone
 Concen: Below Cal
 RT: 3.76 min Scan# 618
 Delta R.T. -0.01 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

Tgt Ion: 43 Resp: 389
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.6 38.4#

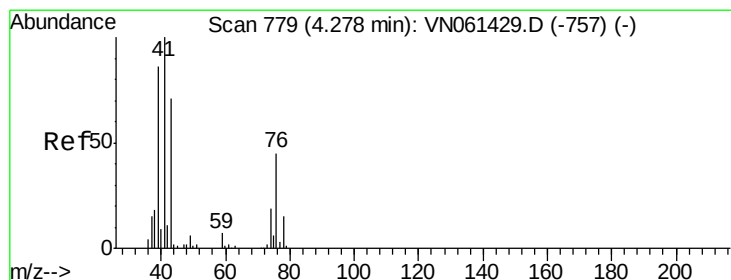
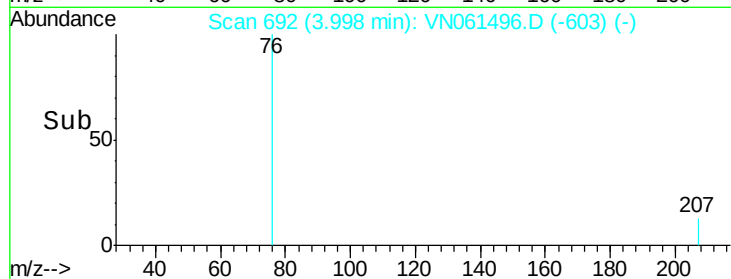
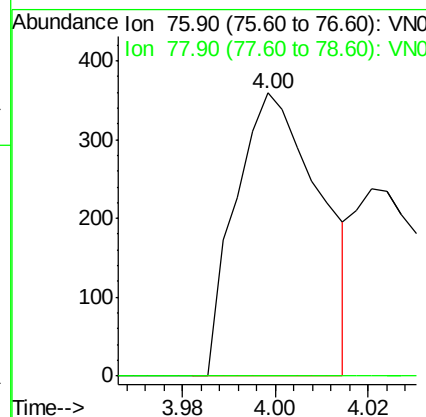
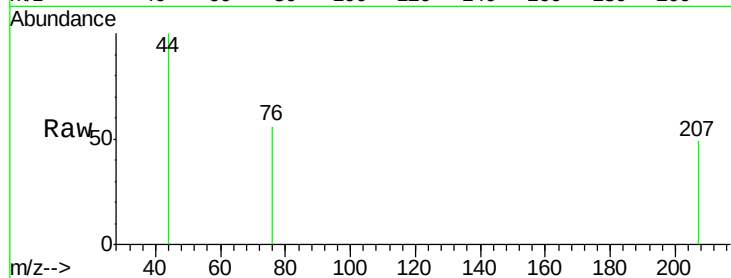




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.00 min Scan# 692
Delta R.T. -0.01 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

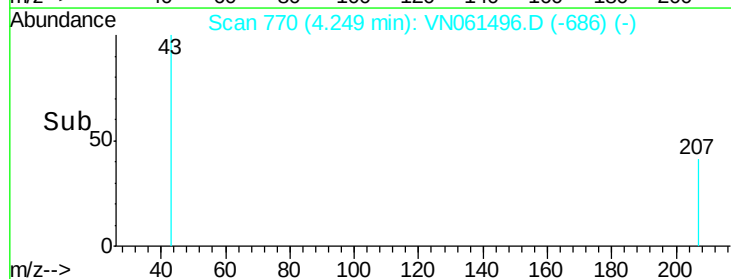
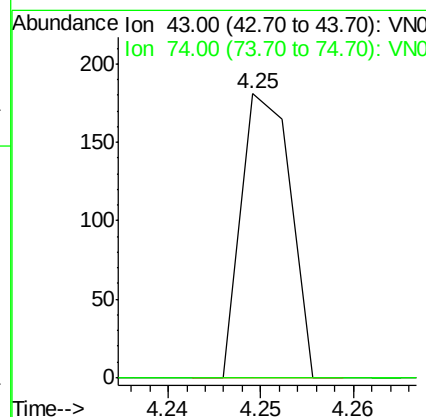
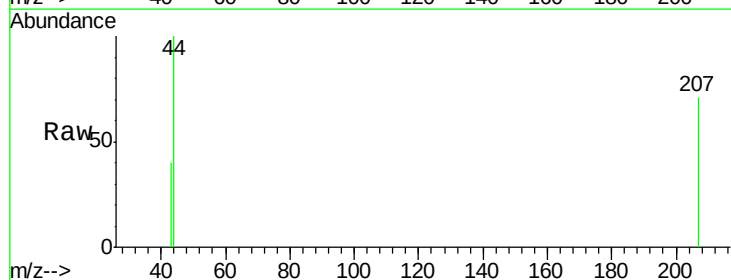
Instrument :
MSVOA_N
ClientSampled :
MW-4DL

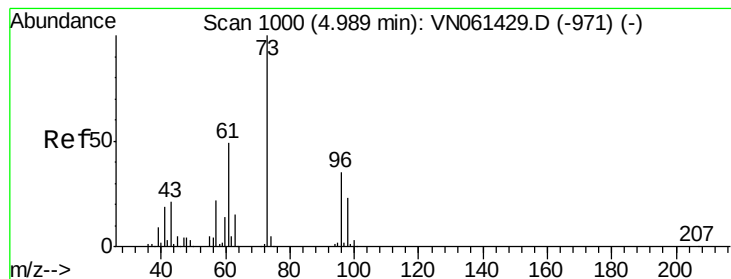
Tot Ion: 76 Resp: 455
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.25 min Scan# 770
Delta R.T. -0.03 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

Tgt Ion: 43 Resp: 67
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#



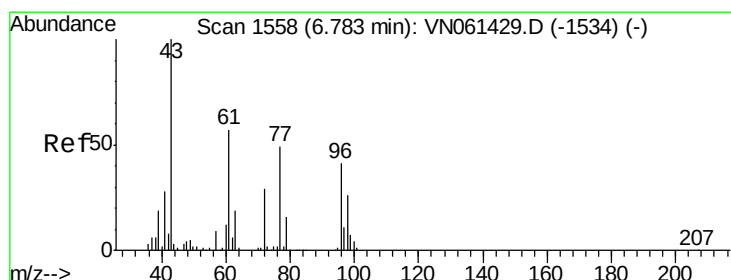
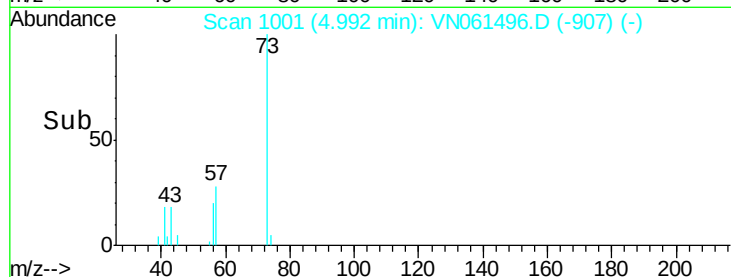
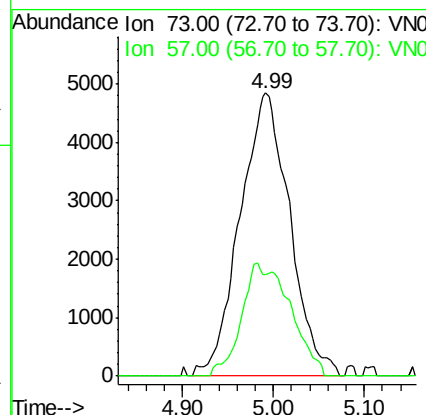
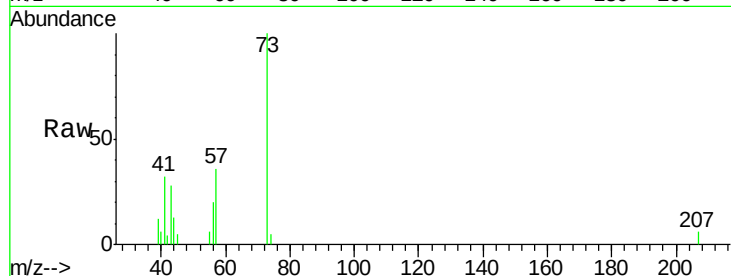


#19

Methyl tert-butyl Ether
 Concen: 1.635 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4DL

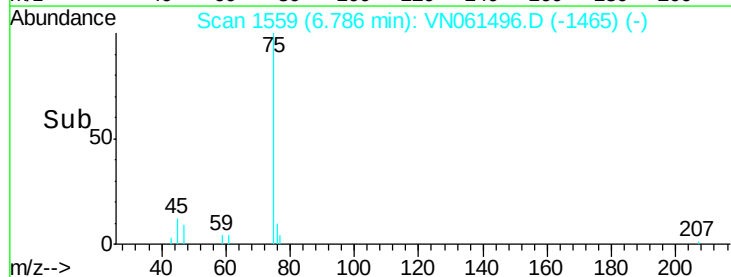
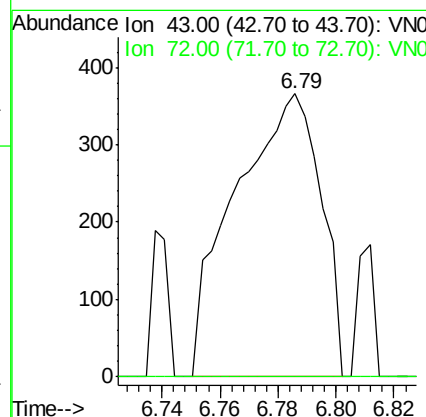
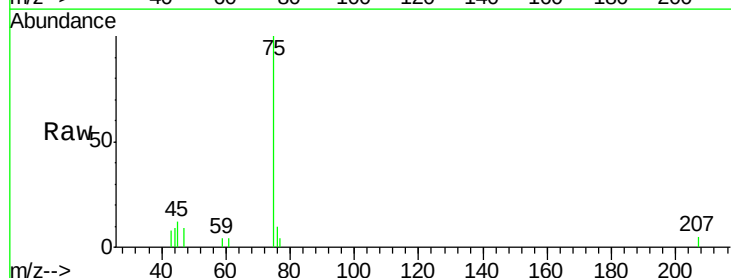
Tot Ion: 73 Resp: 18378
 Ion Ratio Lower Upper
 73 100
 57 36.0 17.4 26.0#

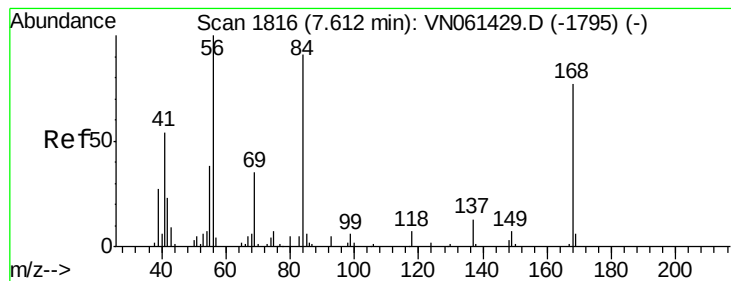


#25

2-Butanone
 Concen: 0.382 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. 0.00 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

Tgt Ion: 43 Resp: 750
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.0 34.6#





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

MW-4DL

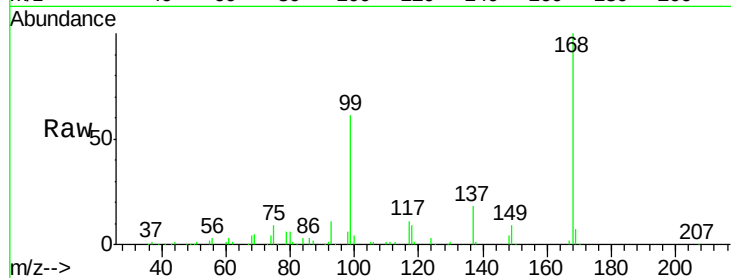
Tot Ion: 56 Resp: 7172

Ion Ratio Lower Upper

56 100

69 180.3 27.8 41.6#

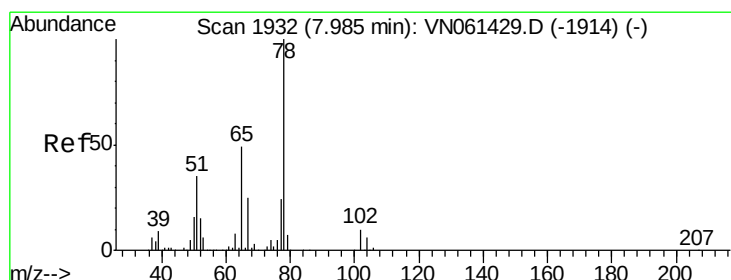
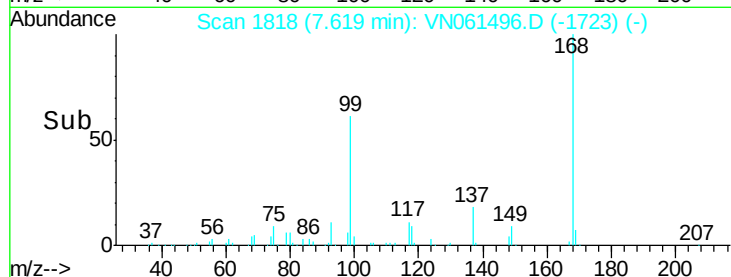
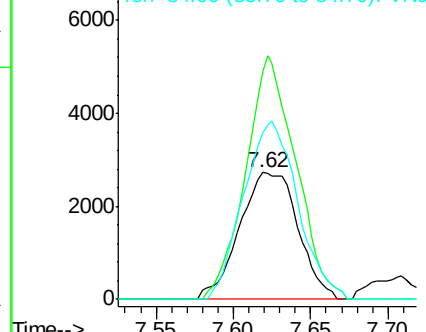
84 131.1 72.7 109.1#



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: 45.546 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. 0.00 min

Lab File: VN061496.D

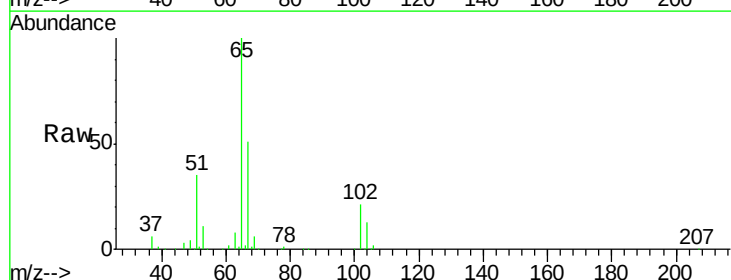
Acq: 19 May 2020 20:14

Tgt Ion: 65 Resp: 196429

Ion Ratio Lower Upper

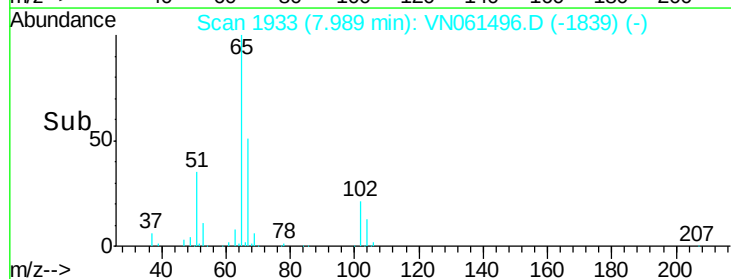
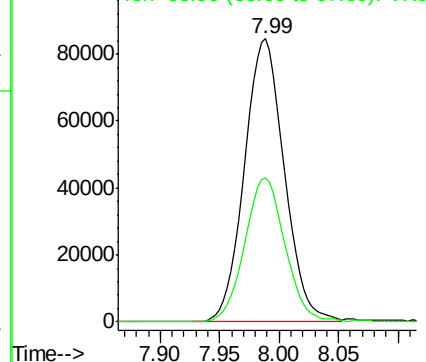
65 100

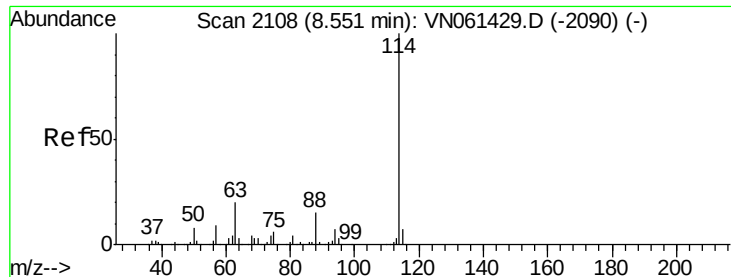
67 51.4 0.0 101.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

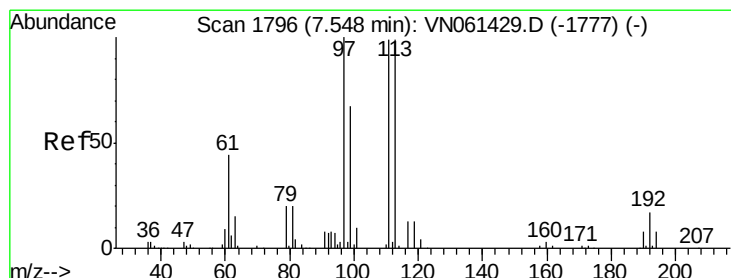
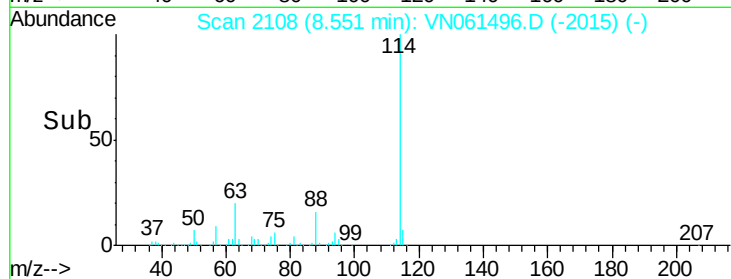
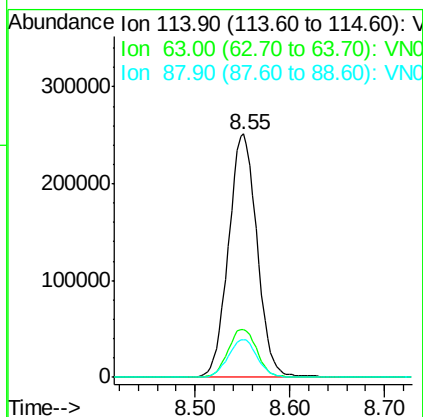
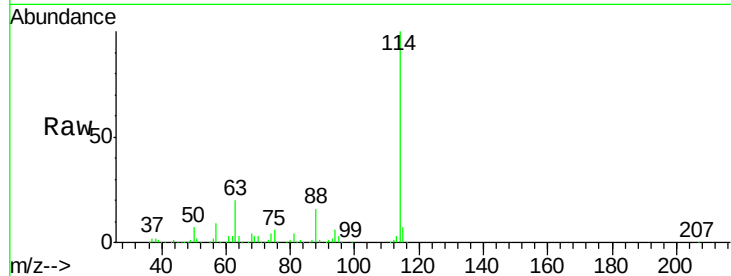




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

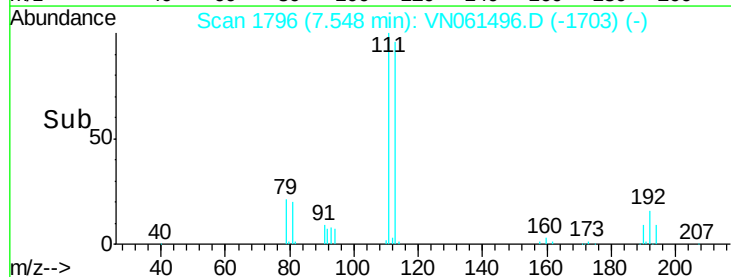
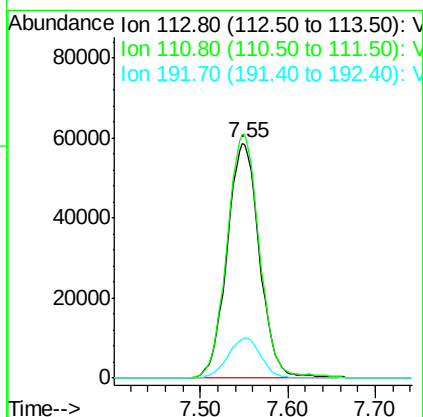
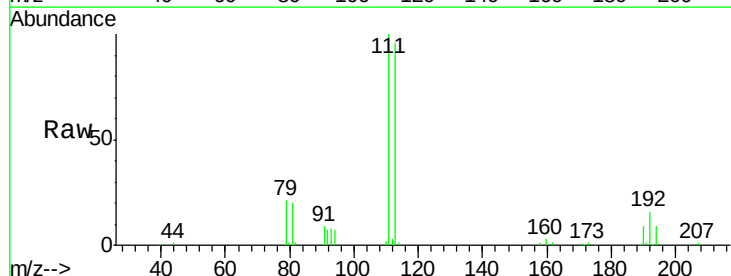
Instrument :
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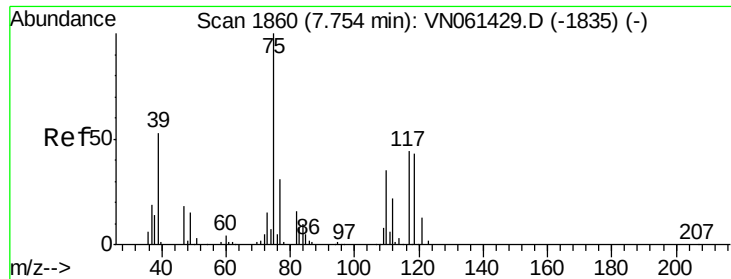
Tot Ion:114 Resp: 527044
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 40.8
 88 15.6 0.0 30.8



#35
 Dibromofluoromethane
 Concen: 54.663 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

Tgt Ion:113 Resp: 150926
 Ion Ratio Lower Upper
 113 100
 111 103.3 80.6 121.0
 192 17.2 13.2 19.8

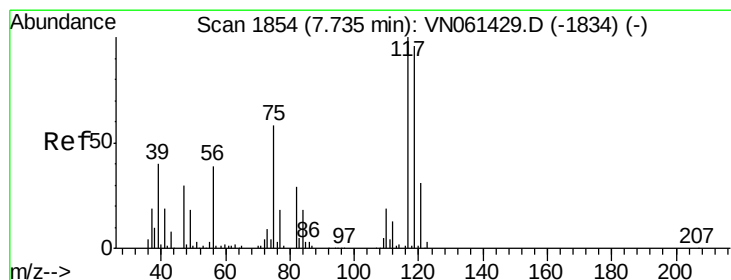
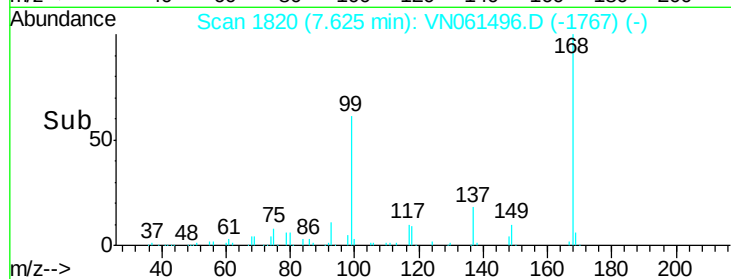
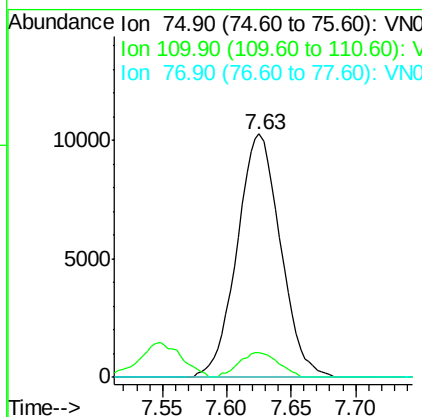
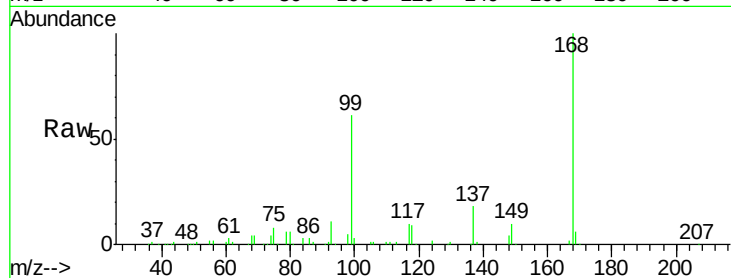




#36
 1,1-Dichloropropene
 Concen: 4.885 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

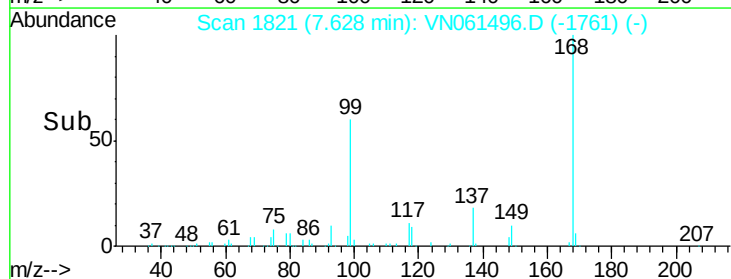
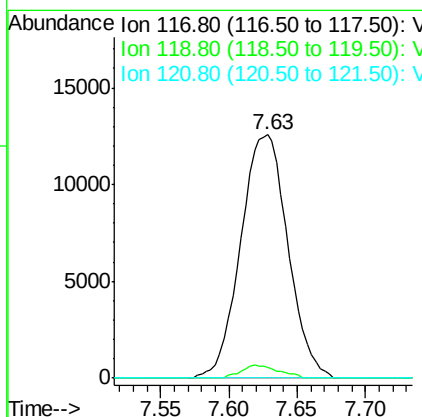
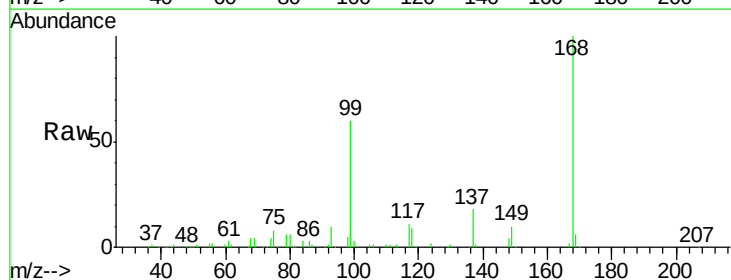
Instrument :
 MSVOA_N
 ClientSampled :
 MW-4DL

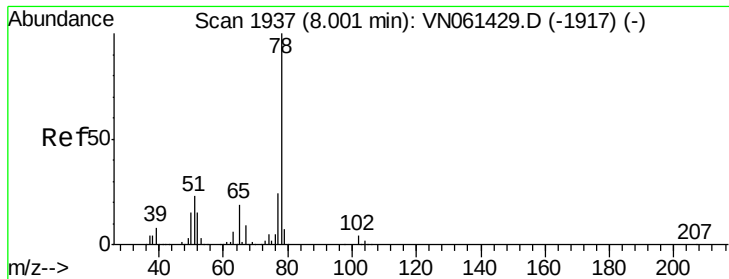
Tot Ion: 75 Resp: 24072
 Ion Ratio Lower Upper
 75 100
 110 9.4 17.3 51.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.642 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

Tgt Ion: 117 Resp: 30138
 Ion Ratio Lower Upper
 117 100
 119 4.3 77.0 115.6#
 121 0.0 24.7 37.1#





#40

Benzene

Concen: 0.214 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

Instrument :

MSVOA_N

ClientSampled :

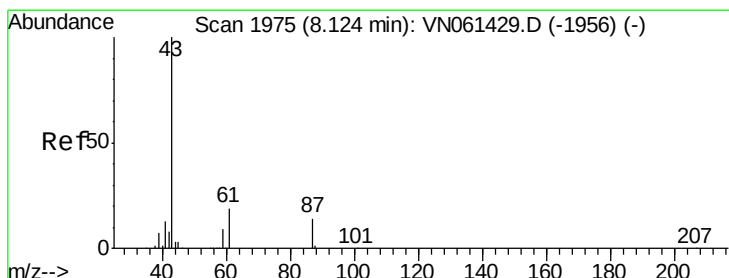
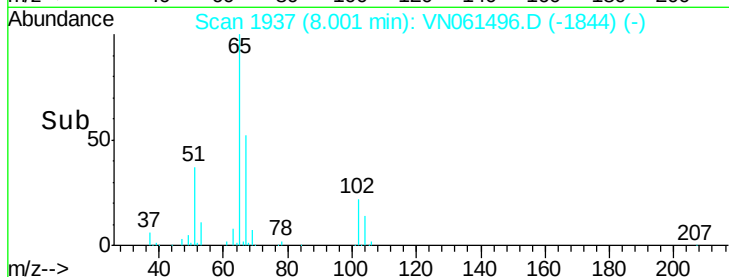
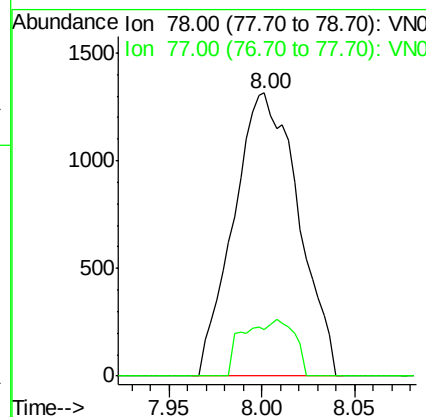
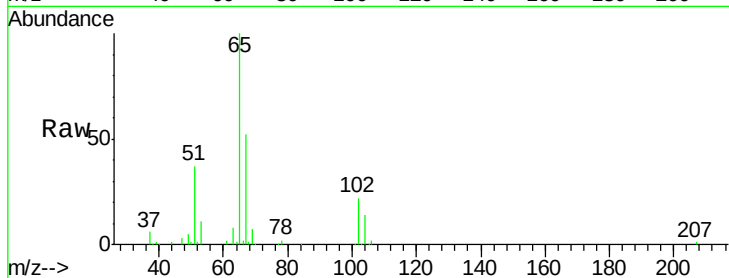
MW-4DL

Tot Ion: 78 Resp: 3185

Ion Ratio Lower Upper

78 100

77 16.4 19.1 28.7#



#43

Isopropyl Acetate

Concen: 0.289 ug/l

RT: 8.09 min Scan# 1966

Delta R.T. -0.03 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

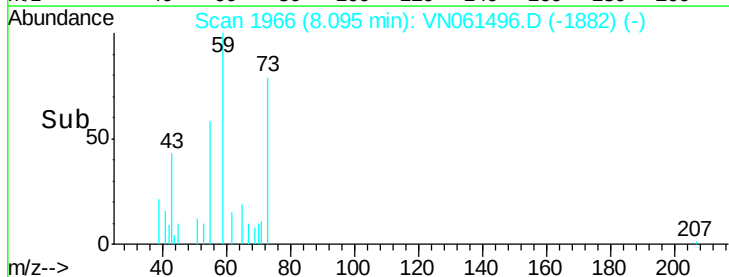
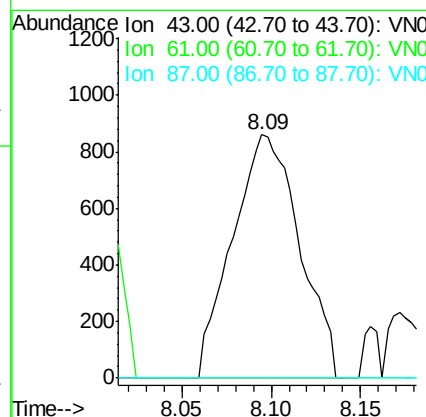
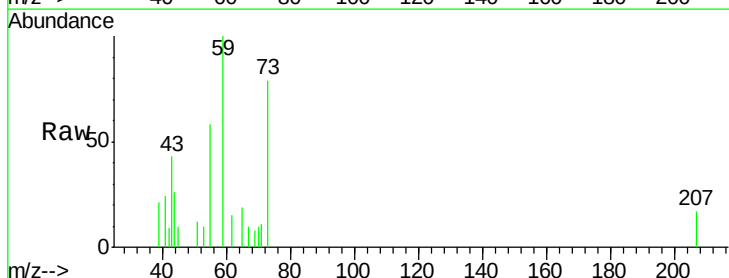
Tgt Ion: 43 Resp: 2249

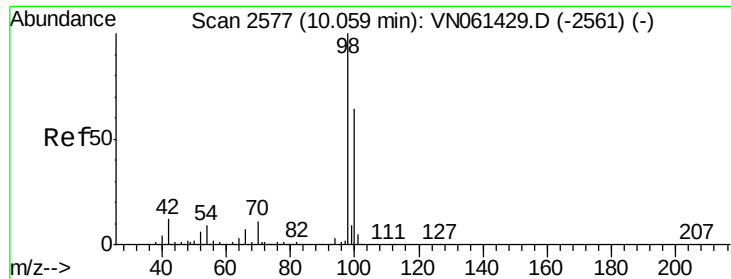
Ion Ratio Lower Upper

43 100

61 0.0 23.0 34.4#

87 0.0 11.6 17.4#

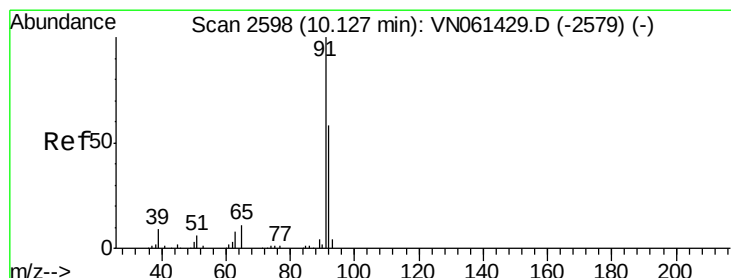
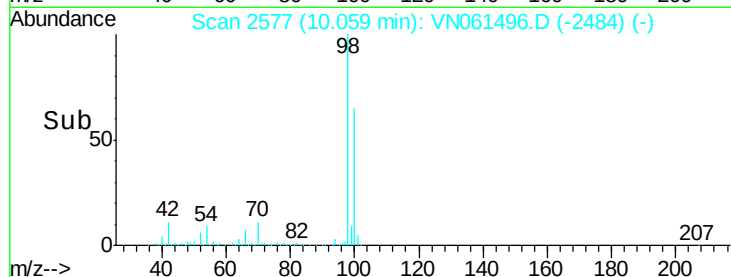
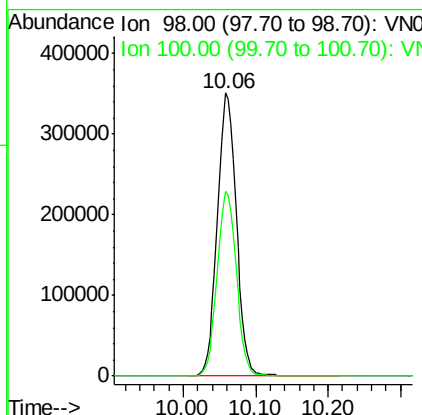
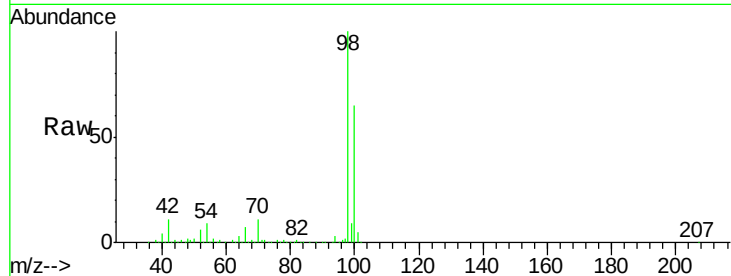




#50
Toluene-d8
Concen: 50.175 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

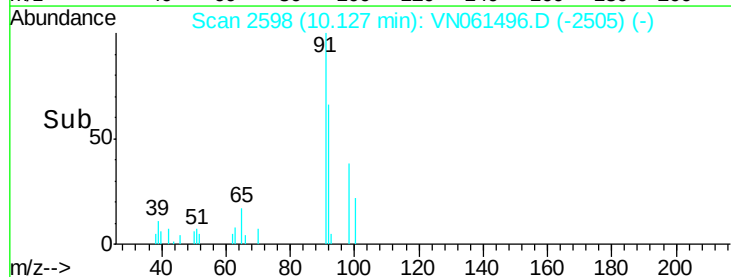
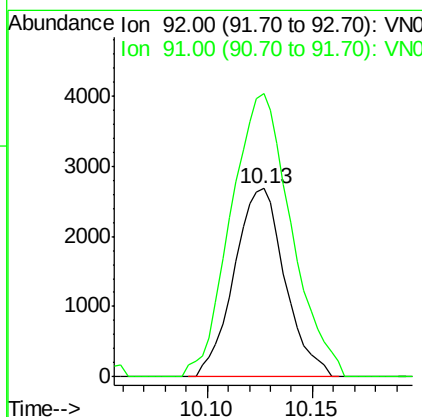
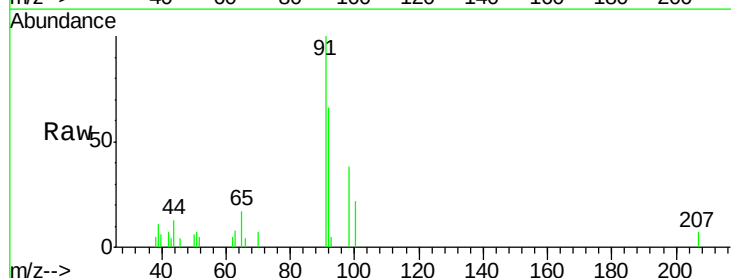
Instrument :
MSVOA_N
ClientSampleId :
MW-4DL

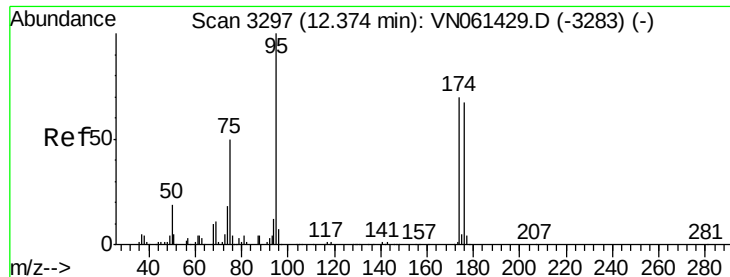
Tot Ion: 98 Resp: 642557
Ion Ratio Lower Upper
98 100
100 65.7 51.8 77.8



#52
Toluene
Concen: 0.470 ug/l
RT: 10.13 min Scan# 2598
Delta R.T. -0.00 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

Tgt Ion: 92 Resp: 4484
Ion Ratio Lower Upper
92 100
91 178.6 138.0 207.0





#62

4-Bromofluorobenzene

Concen: 48.701 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.00 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

Instrument :

MSVOA_N

ClientSampled :

MW-4DL

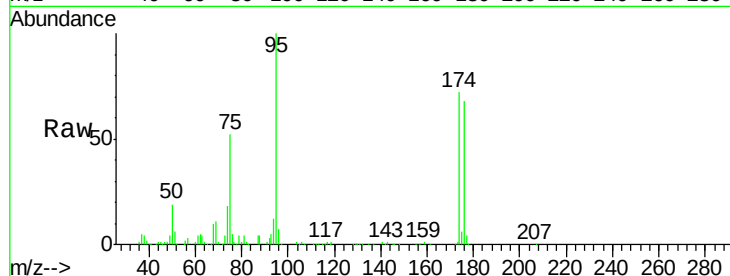
Tot Ion: 95 Resp: 233010

Ion Ratio Lower Upper

95 100

174 72.4 0.0 141.2

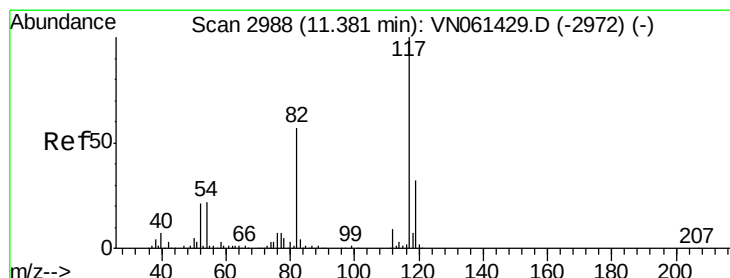
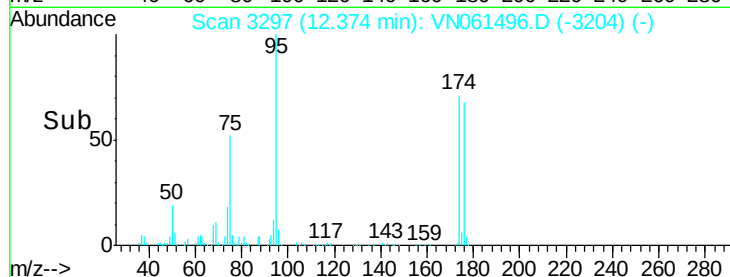
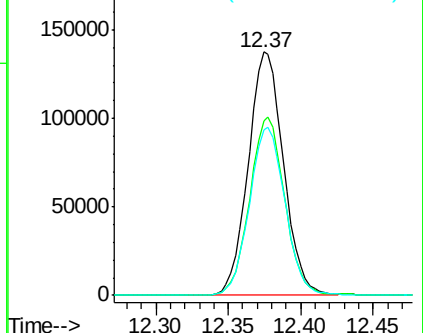
176 69.9 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN061429.D (-3283) (-)

Ion 173.80 (173.50 to 174.50): VN061429.D (-3283) (-)

Ion 175.80 (175.50 to 176.50): VN061429.D (-3283) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

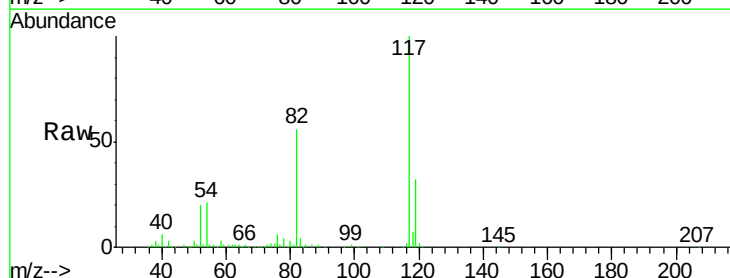
Tgt Ion: 117 Resp: 497613

Ion Ratio Lower Upper

117 100

82 56.0 45.2 67.8

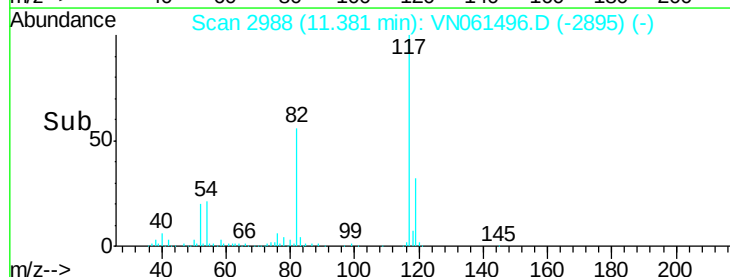
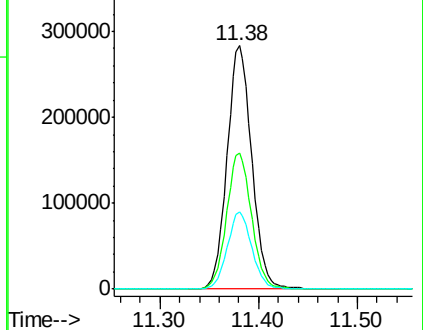
119 31.6 25.3 37.9

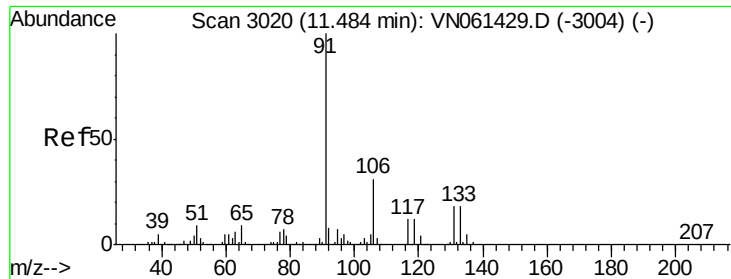


Abundance Ion 116.90 (116.60 to 117.60): VN061429.D (-2972) (-)

Ion 82.00 (81.70 to 82.70): VN061429.D (-2972) (-)

Ion 118.90 (118.60 to 119.60): VN061429.D (-2972) (-)

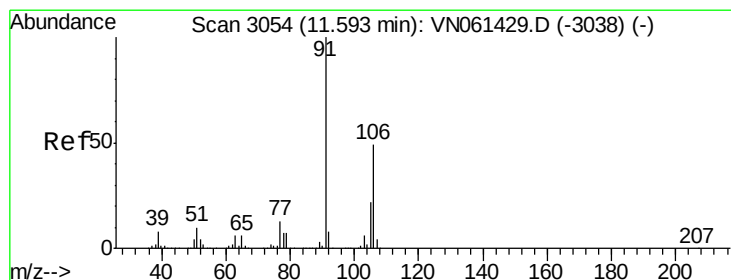
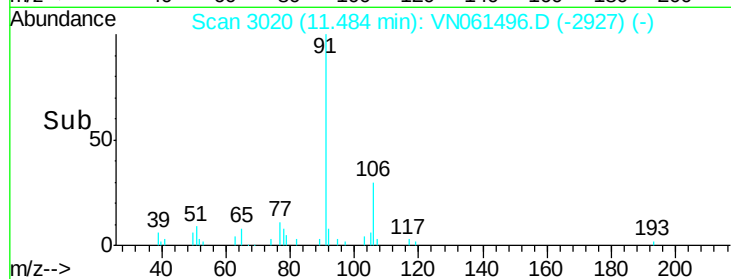
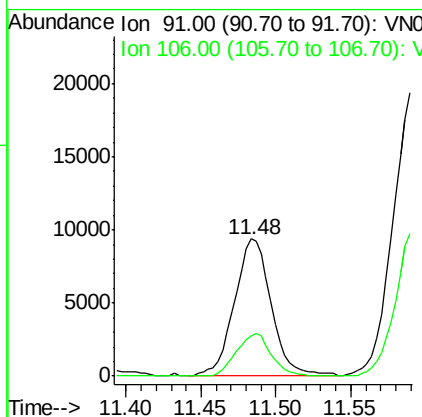
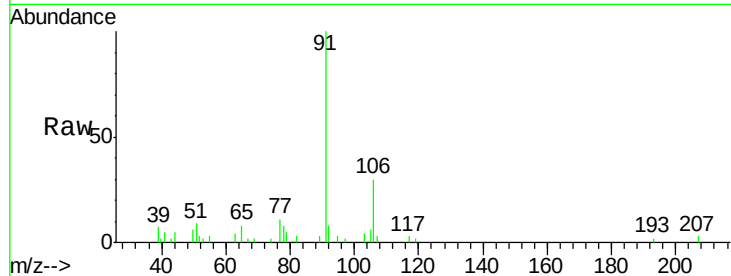




#67
Ethyl Benzene
Concen: 0.871 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. -0.00 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

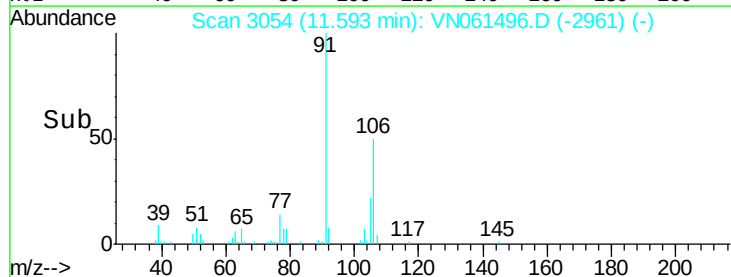
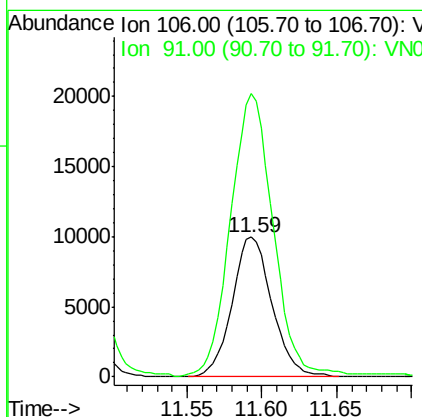
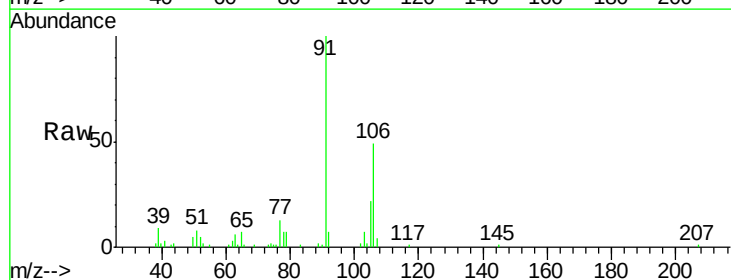
Instrument :
MSVOA_N
ClientSampled :
MW-4DL

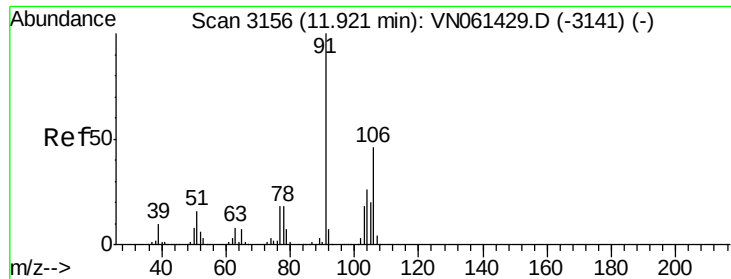
Tot Ion: 91 Resp: 16135
Ion Ratio Lower Upper
91 100
106 29.6 24.6 36.8



#68
m/p-Xylenes
Concen: 2.635 ug/l
RT: 11.59 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

Tgt Ion: 106 Resp: 18528
Ion Ratio Lower Upper
106 100
91 217.3 163.0 244.6

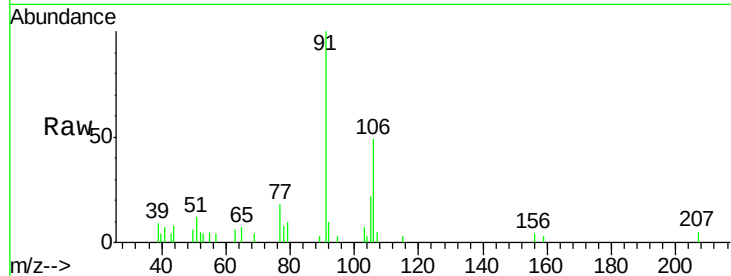




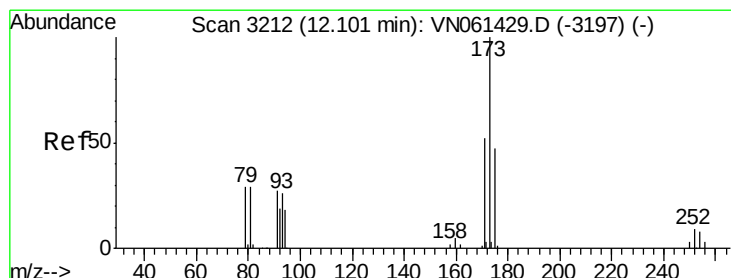
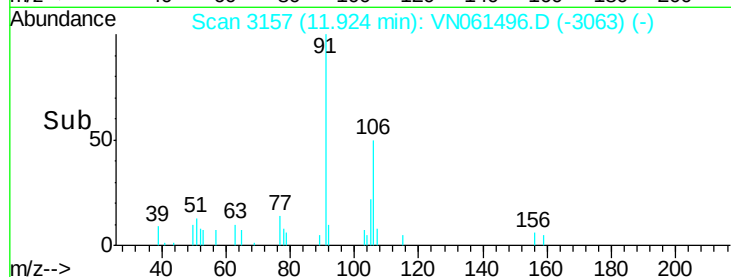
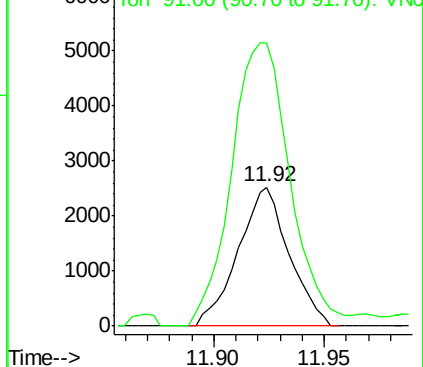
#69
o-Xylene
Concen: 0.596 ug/l
RT: 11.92 min Scan# 3157
Delta R.T. 0.00 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

Instrument :
MSVOA_N
ClientSampled :
MW-4DL

Tot Ion:106 Resp: 4055
Ion Ratio Lower Upper
106 100
91 235.6 107.9 323.7

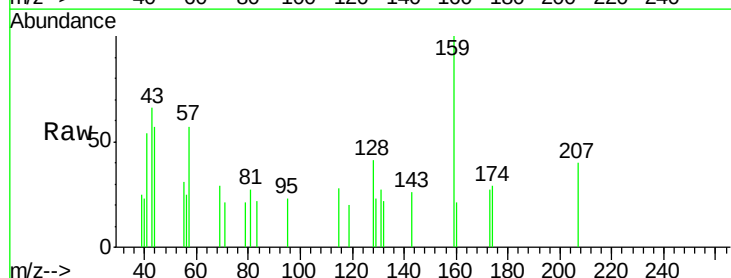


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

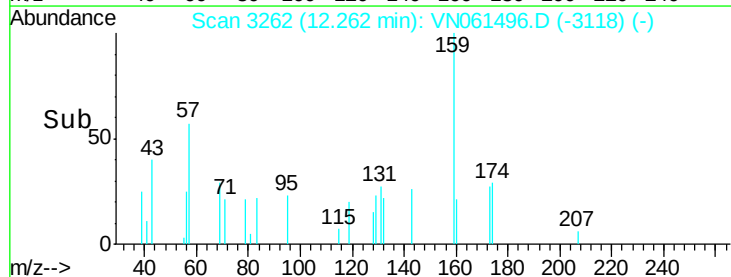
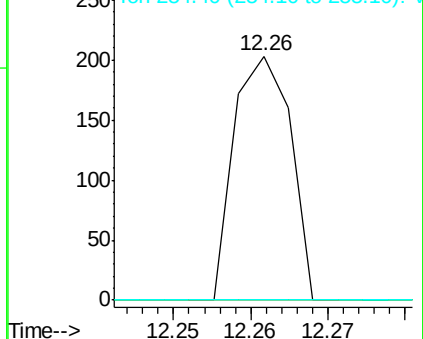


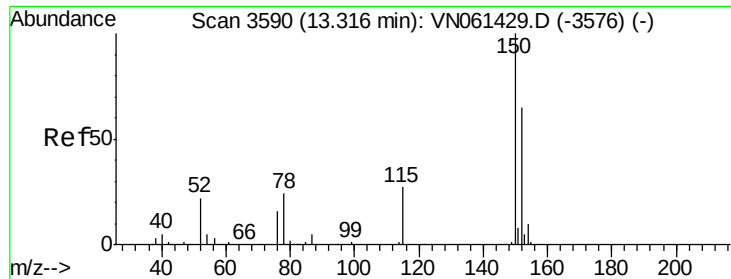
#71
Bromoform
Concen: 2.055 ug/l
RT: 12.26 min Scan# 3262
Delta R.T. 0.16 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

Tgt Ion:173 Resp: 103
Ion Ratio Lower Upper
173 100
175 0.0 23.9 71.8#
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



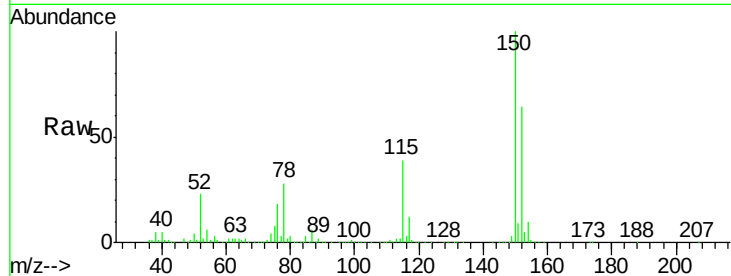


#72

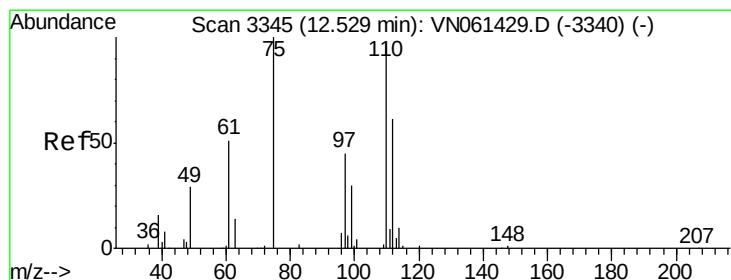
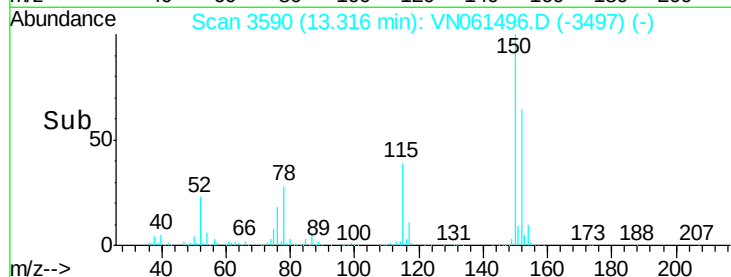
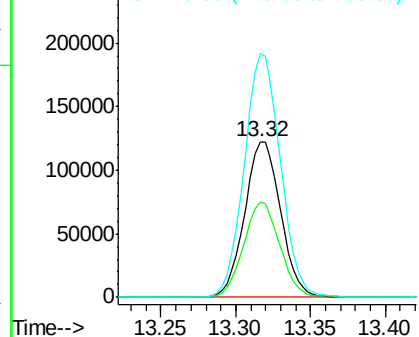
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3590
Delta R.T. -0.00 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

Instrument :
MSVOA_N
ClientSampled :
MW-4DL

Tot Ion:152 Resp: 205368
Ion Ratio Lower Upper
152 100
115 60.8 30.9 92.5
150 157.5 0.0 349.2



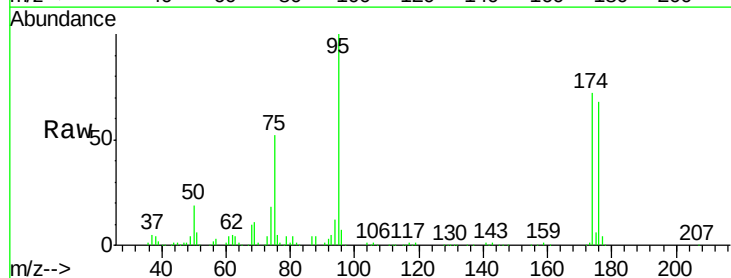
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



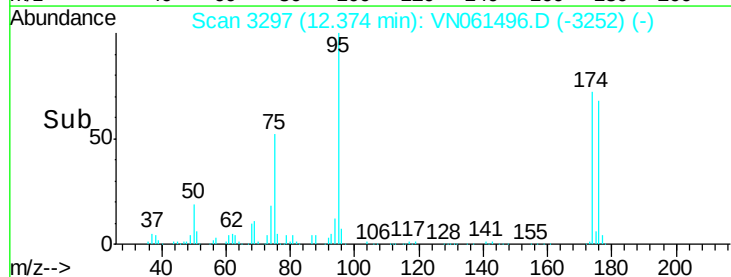
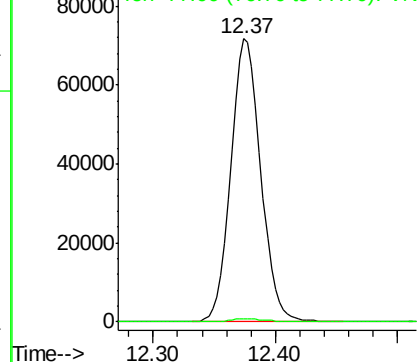
#76

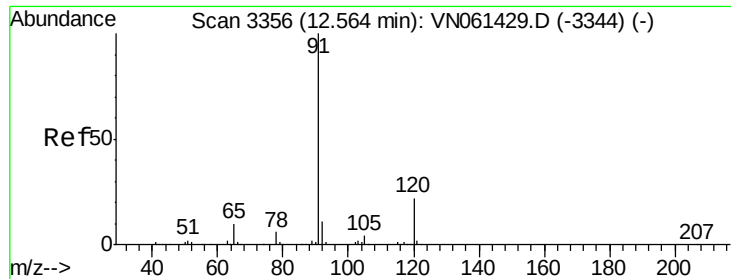
1,2,3-Trichloropropane
Concen: 27.856 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.15 min
Lab File: VN061496.D
Acq: 19 May 2020 20:14

Tgt Ion: 75 Resp: 122754
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#78

n-propylbenzene

Concen: 0.551 ug/l

RT: 12.56 min Scan# 3356

Delta R.T. -0.00 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

Instrument :

MSVOA_N

ClientSampled :

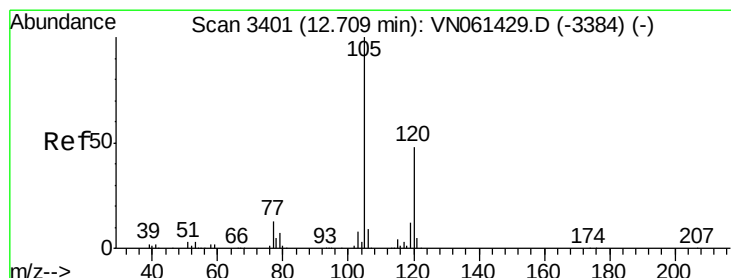
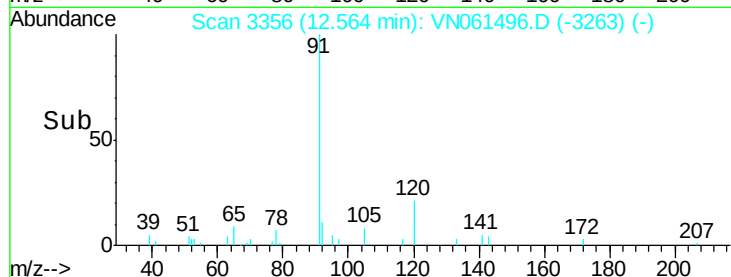
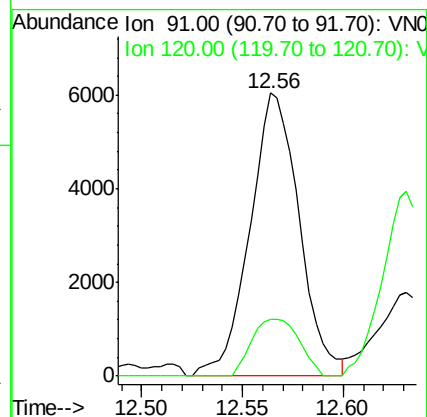
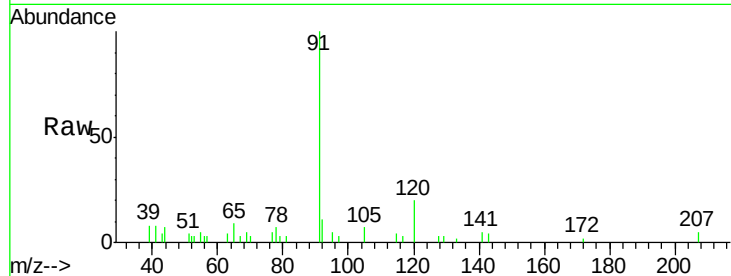
MW-4DL

Tot Ion: 91 Resp: 10349

Ion Ratio Lower Upper

91 100

120 19.4 11.2 33.6



#80

1,3,5-Trimethylbenzene

Concen: 0.737 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN061496.D

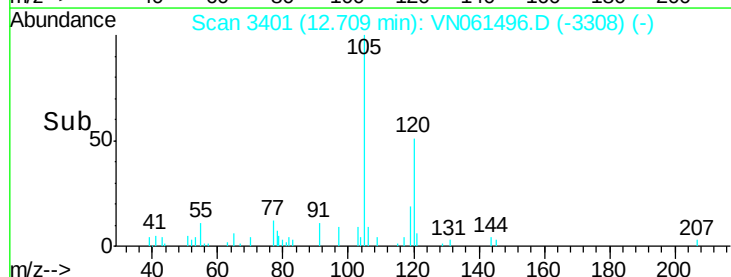
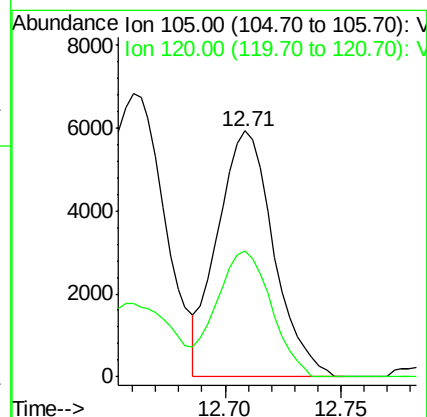
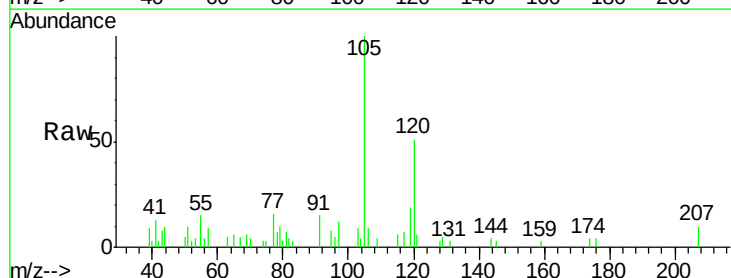
Acq: 19 May 2020 20:14

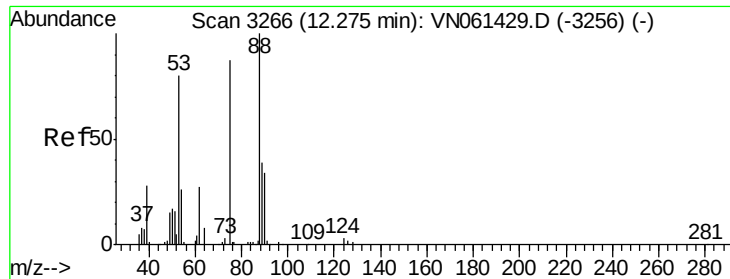
Tgt Ion: 105 Resp: 9952

Ion Ratio Lower Upper

105 100

120 49.8 24.1 72.4





#81

trans-1,4-Dichloro-2-butene

Concen: 73.897 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

Instrument :

MSVOA_N

ClientSampleId :

MW-4DL

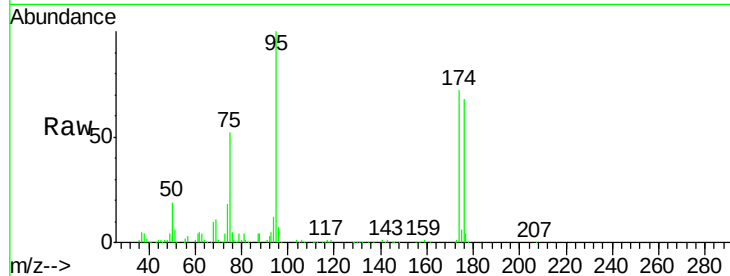
Tot Ion: 75 Resp: 122754

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

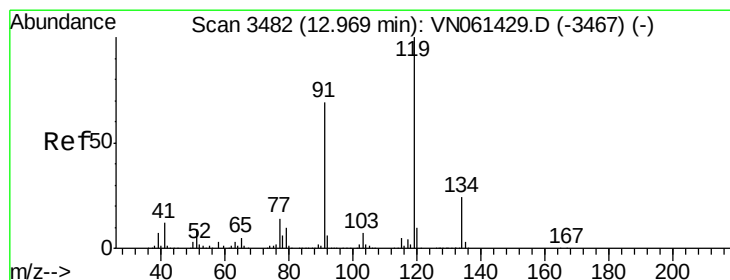
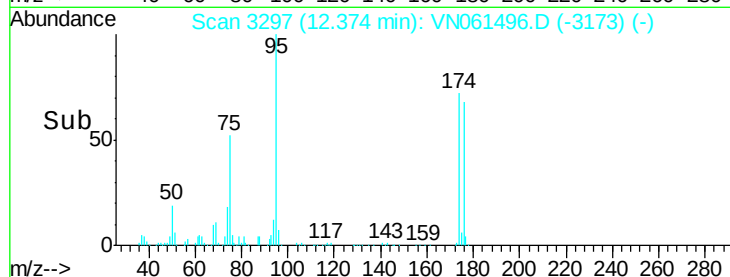
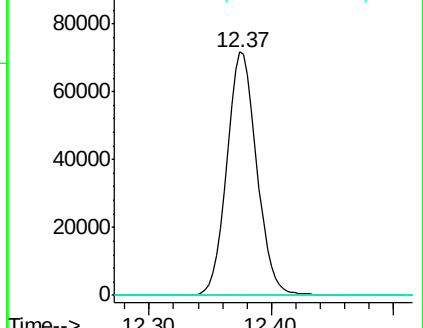
89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VN061429.D (-3256) (-)

Ion 53.00 (52.70 to 53.70): VN061429.D (-3256) (-)

Ion 88.90 (88.60 to 89.60): VN061429.D (-3256) (-)



#83

tert-Butylbenzene

Concen: 0.379 ug/l

RT: 13.01 min Scan# 3496

Delta R.T. 0.04 min

Lab File: VN061496.D

Acq: 19 May 2020 20:14

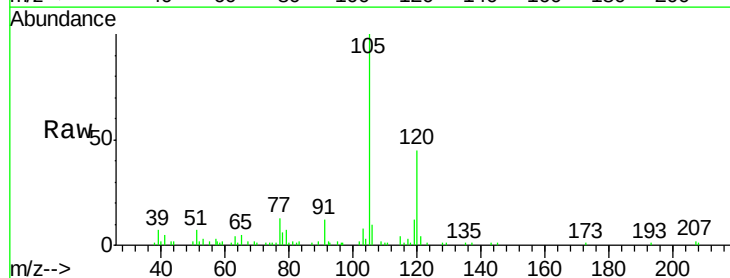
Tgt Ion: 119 Resp: 4387

Ion Ratio Lower Upper

119 100

91 100.5 33.7 101.0

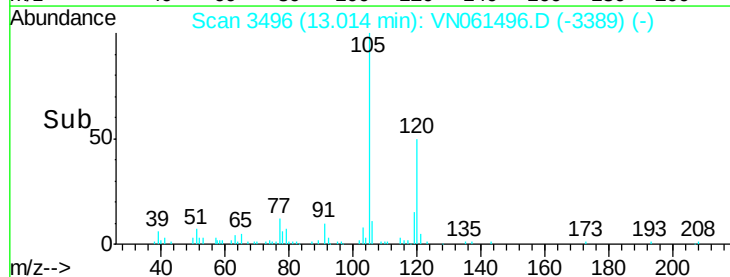
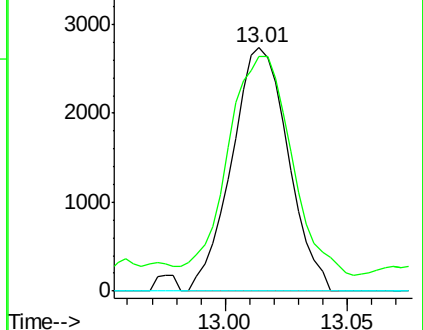
134 0.0 12.8 38.3#

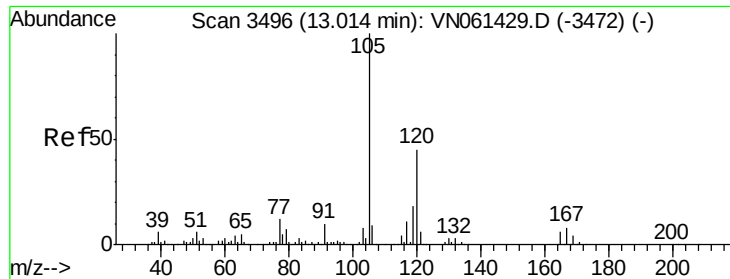


Abundance Ion 119.00 (118.70 to 119.70): VN061429.D (-3467) (-)

Ion 91.00 (90.70 to 91.70): VN061429.D (-3467) (-)

Ion 134.00 (133.70 to 134.70): VN061429.D (-3467) (-)

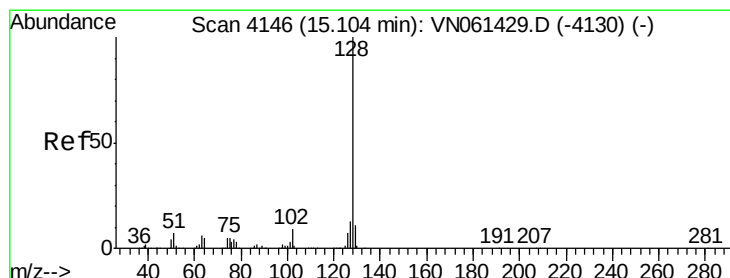
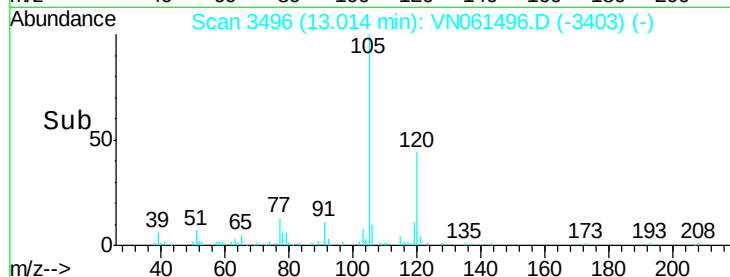
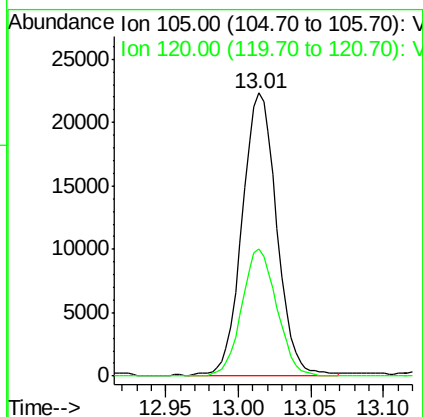
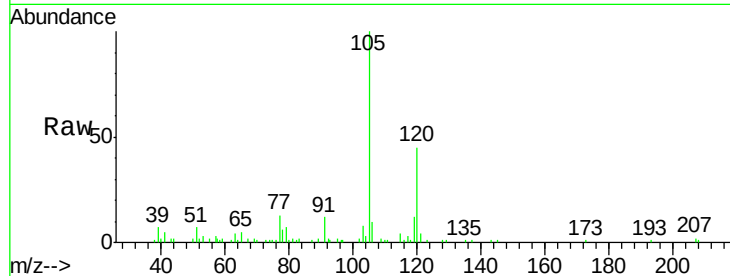




#84
 1,2,4-Trimethylbenzene
 Concen: 2.758 ug/l
 RT: 13.01 min Scan# 3496
 Delta R.T. -0.00 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

Instrument :
 MSVOA_N
 ClientSampled :
 MW-4DL

Tot Ion:105 Resp: 37267
 Ion Ratio Lower Upper
 105 100
 120 45.1 22.4 67.3



#95
 Naphthalene
 Concen: 1.815 ug/l
 RT: 15.10 min Scan# 4146
 Delta R.T. -0.00 min
 Lab File: VN061496.D
 Acq: 19 May 2020 20:14

Tgt Ion:128 Resp: 19651
 Ion Ratio Lower Upper
 128 100
 127 15.5 10.1 15.1#
 129 11.5 8.6 13.0

