

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050120\
 Data File : VN061231.D
 Acq On : 1 May 2020 15:31
 Operator : JC/MD
 Sample : L2468-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 04 00:54:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 29 08:14:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	112045	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	198534	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	190890	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	83745	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	86145	48.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.18%	
35) Dibromofluoromethane	7.55	113	58002	49.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.82%	
50) Toluene-d8	10.06	98	248072	51.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.68%	
62) 4-Bromofluorobenzene	12.38	95	92212	51.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.40%	

Target Compounds

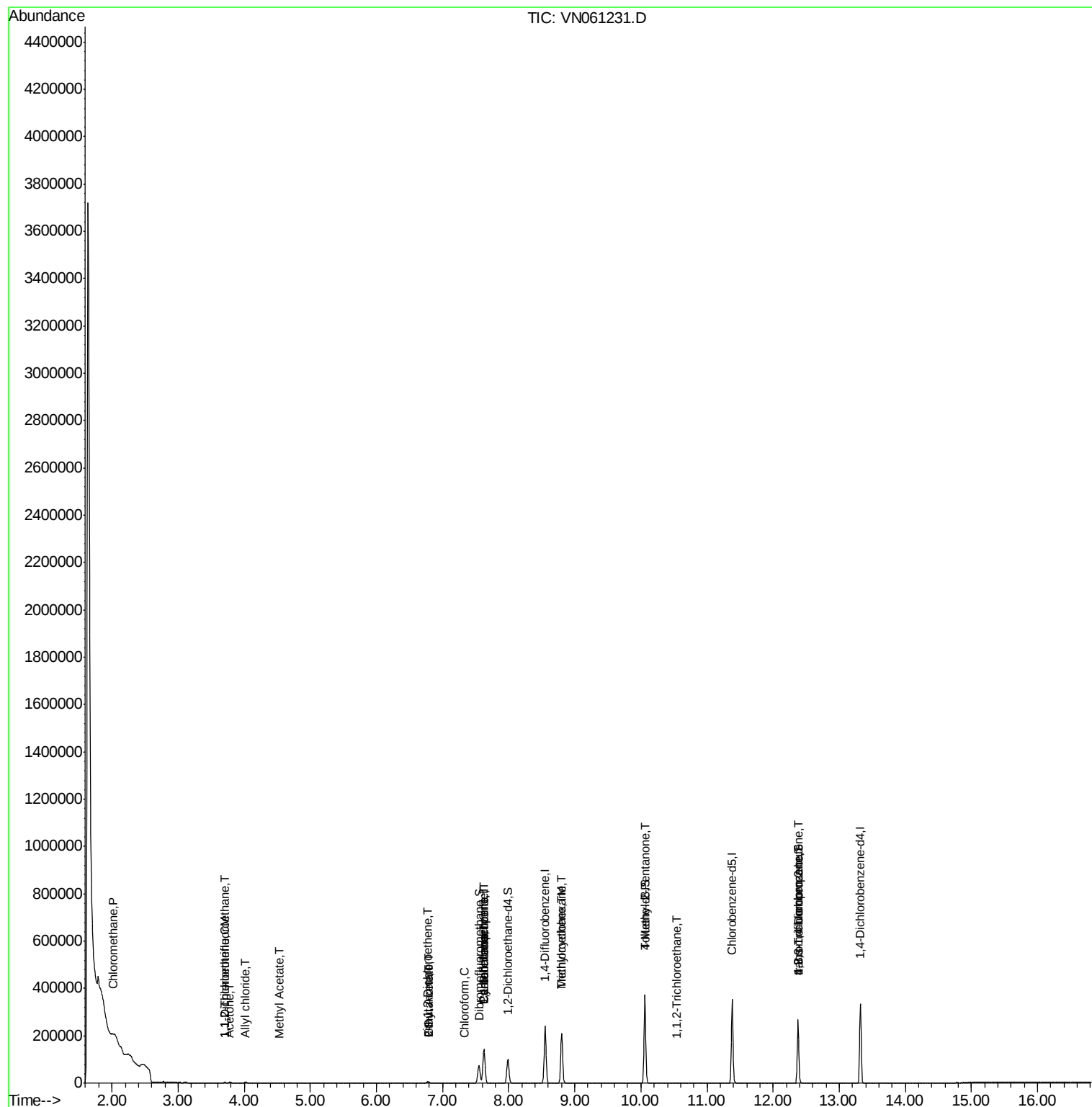
						Qvalue
3) Chloromethane	2.03	50	309	0.215	ug/l #	42
9) 1,1,2-Trichlorotrifluoroet	3.72	101	814	0.685	ug/l #	46
12) 1,1-Dichloroethene	3.70	96	1163	0.984	ug/l #	80
14) Allyl chloride	4.02	41	632	0.288	ug/l #	74
16) Acetone	3.78	43	7538	5.593	ug/l	94
18) Methyl Acetate	4.53	43	142	0.742	ug/l #	55
25) 2-Butanone	6.80	43	978	0.932	ug/l #	53
27) cis-1,2-Dichloroethene	6.78	96	712	0.471	ug/l	72
30) Chloroform	7.33	83	1190	0.442	ug/l	100
31) Cyclohexane	7.63	56	2637	1.022	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	9914	4.988	ug/l #	49
37) Ethyl Acetate	6.80	43	978	0.420	ug/l #	1
38) Carbon Tetrachloride	7.63	117	11642	8.413	ug/l #	17
39) Methylcyclohexane	8.80	83	878	0.394	ug/l #	1
44) Trichloroethene	8.80	130	74558	46.581	ug/l	99
51) 4-Methyl-2-Pentanone	10.06	43	1293	0.568	ug/l #	1
55) 1,1,2-Trichloroethane	10.54	97	296	0.208	ug/l #	49
76) 1,2,3-Trichloropropane	12.38	75	49277	27.910	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	49277	70.877	ug/l #	8

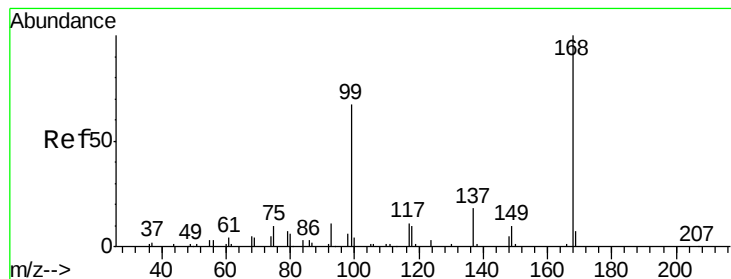
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 29 08:14:26 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1878

Delta R.T. 0.00 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :

MSVOA_N

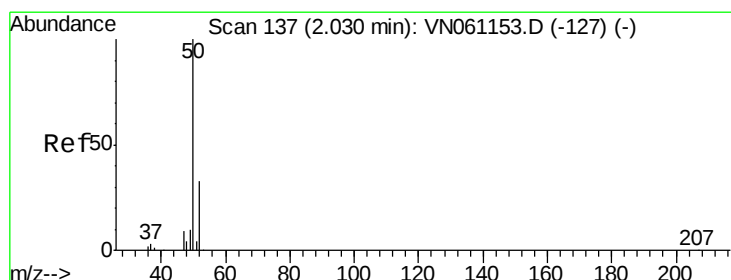
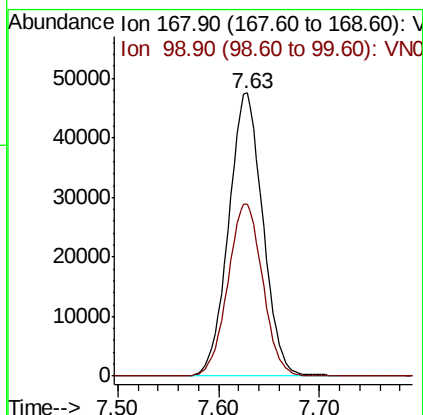
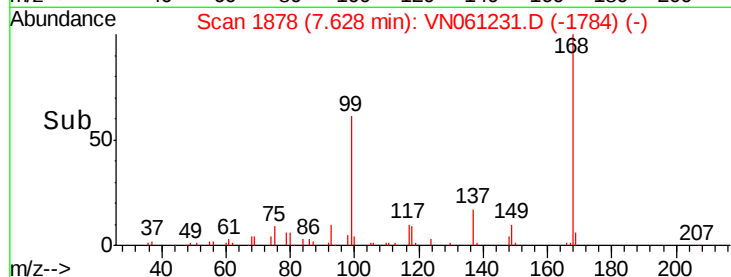
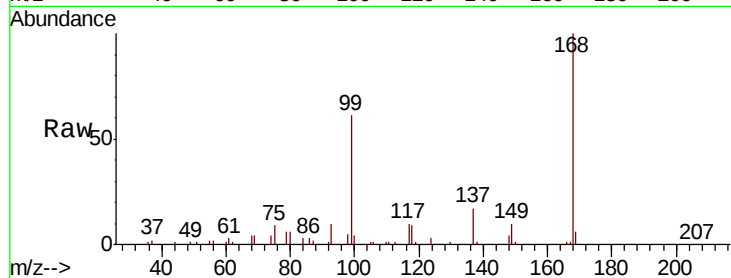
ClientSampleId :

Tot Ion:168 Resp: 112045

Ion Ratio Lower Upper

168 100

99 60.8 51.2 76.8



#3

Chloromethane

Concen: 0.215 ug/l

RT: 2.03 min Scan# 138

Delta R.T. 0.00 min

Lab File: VN061231.D

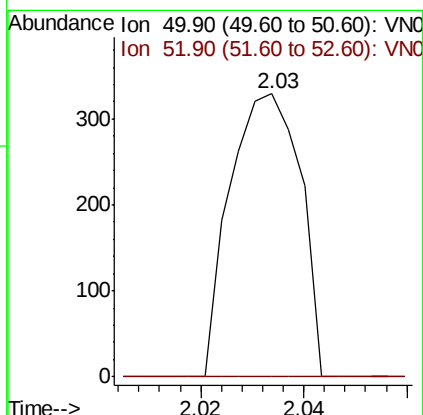
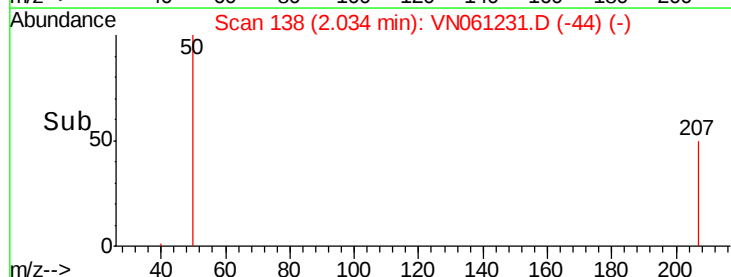
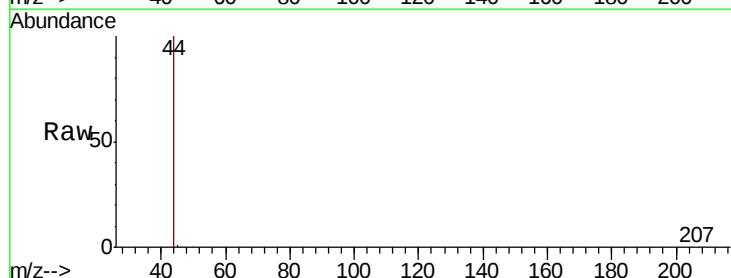
Acq: 1 May 2020 15:31

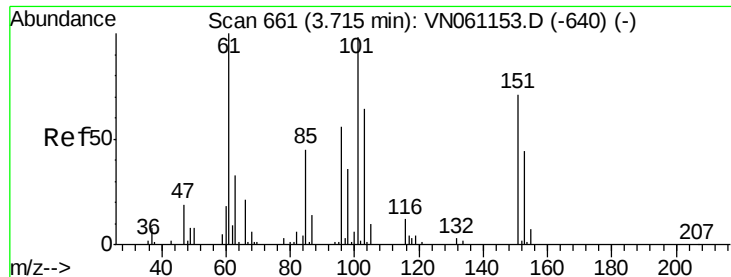
Tgt Ion: 50 Resp: 309

Ion Ratio Lower Upper

50 100

52 0.0 26.0 39.0#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.685 ug/l

RT: 3.72 min Scan# 663

Delta R.T. 0.01 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :

MSVOA_N

ClientSampled :

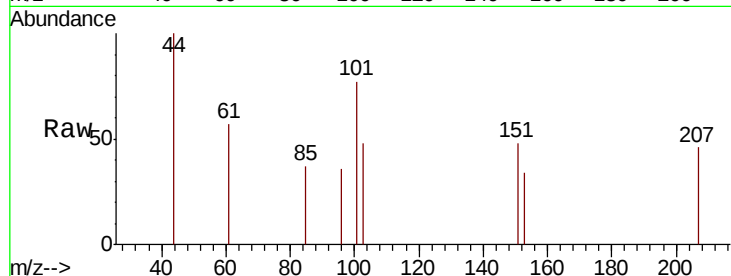
Tot Ion:101 Resp: 814

Ion Ratio Lower Upper

101 100

85 21.1 37.2 55.8#

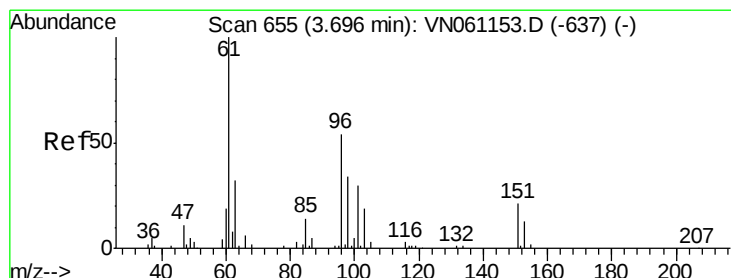
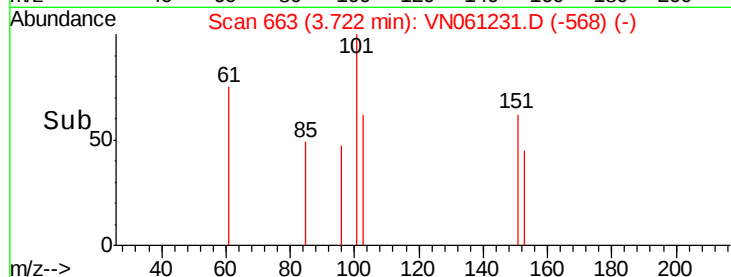
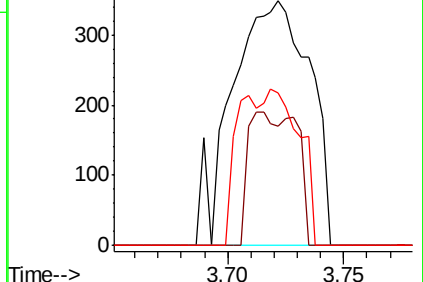
151 18.3 57.7 86.5#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VN0

Ion 150.80 (150.50 to 151.50): V



#12

1,1-Dichloroethene

Concen: 0.984 ug/l

RT: 3.70 min Scan# 655

Delta R.T. 0.00 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

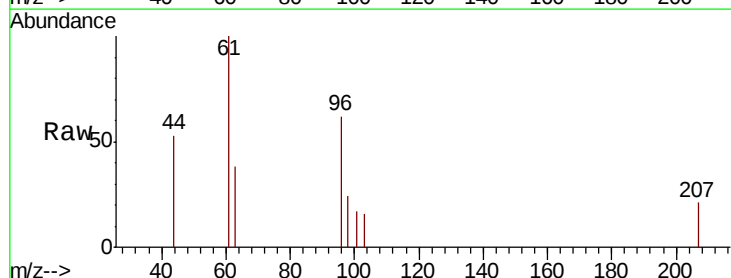
Tgt Ion: 96 Resp: 1163

Ion Ratio Lower Upper

96 100

61 160.6 147.0 220.6

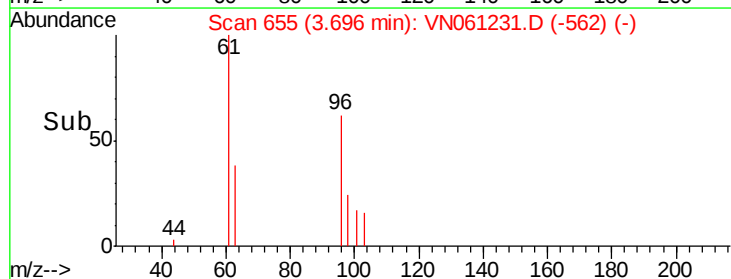
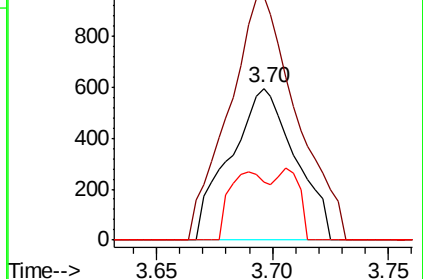
98 38.6 49.8 74.6#

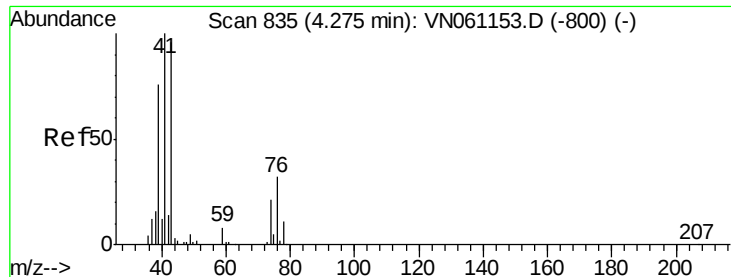


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#14

Allvl chloride

Concen: 0.288 ug/l

RT: 4.02 min Scan# 757

Delta R.T. -0.25 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :

MSVOA_N

ClientSampled :

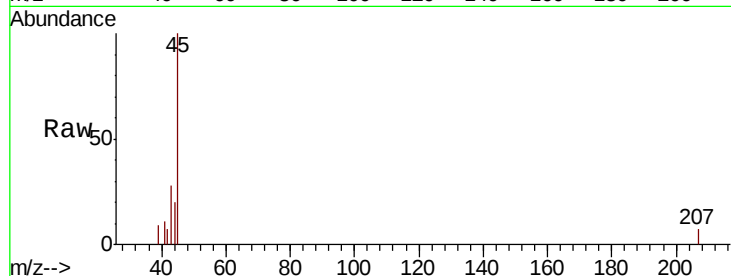
Tot Ion: 41 Resp: 632

Ion Ratio Lower Upper

41 100

39 57.8 57.1 85.7

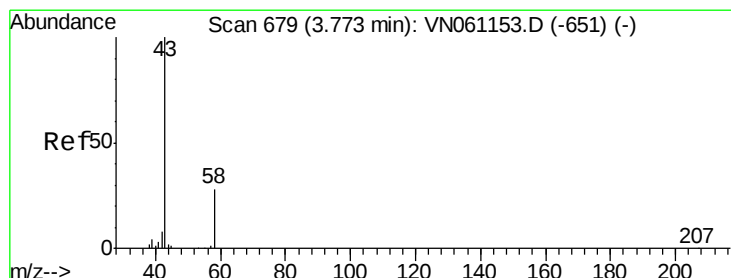
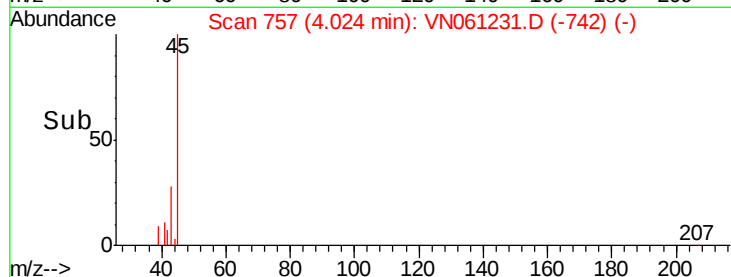
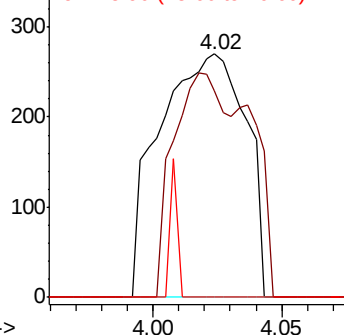
76 4.7 24.3 36.5#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0



#16

Acetone

Concen: 5.593 ug/l

RT: 3.78 min Scan# 680

Delta R.T. 0.00 min

Lab File: VN061231.D

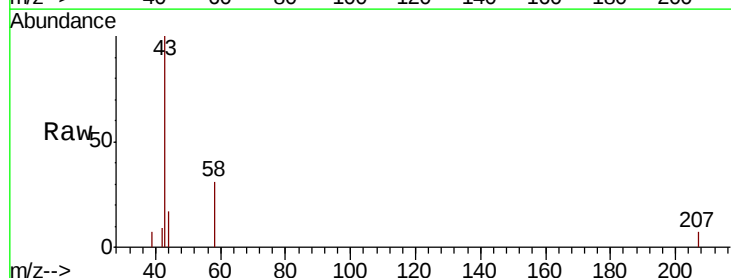
Acq: 1 May 2020 15:31

Tgt Ion: 43 Resp: 7538

Ion Ratio Lower Upper

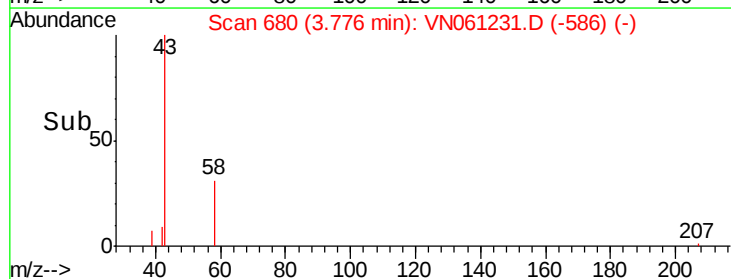
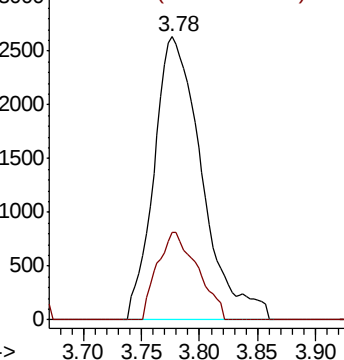
43 100

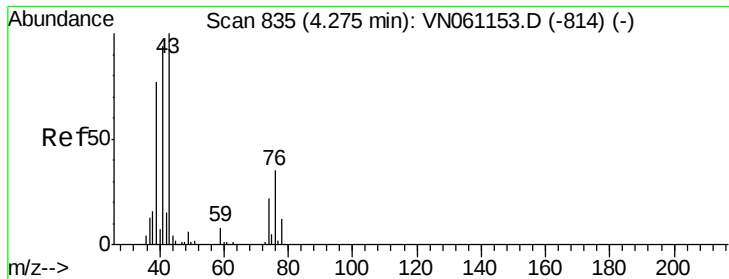
58 30.9 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

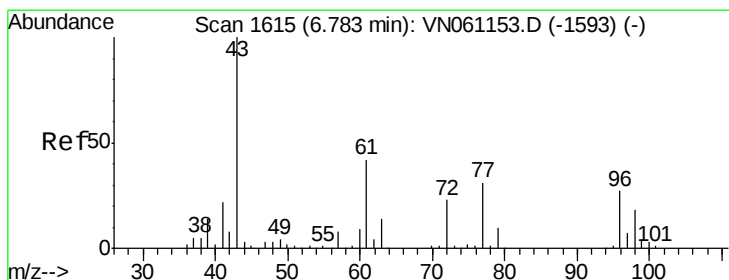
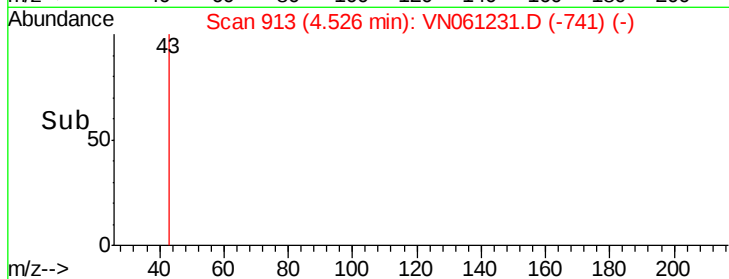
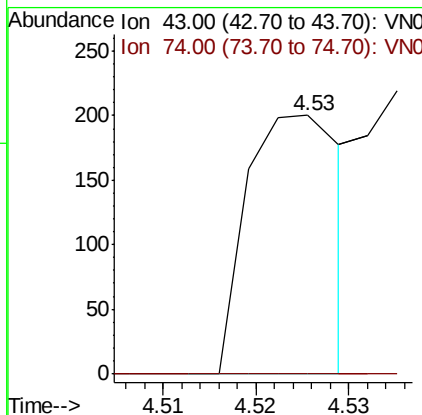
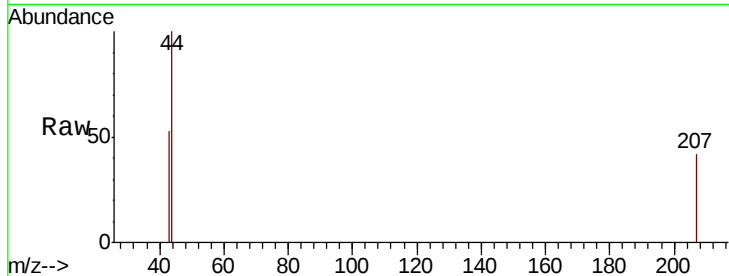




#18
Methyl Acetate
Concen: 0.742 ug/l
RT: 4.53 min Scan# 913
Delta R.T. 0.25 min
Lab File: VN061231.D
Acq: 1 May 2020 15:31

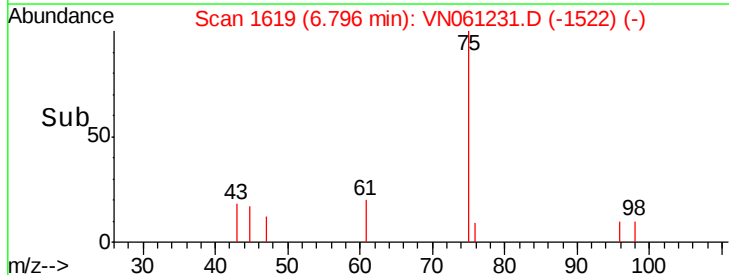
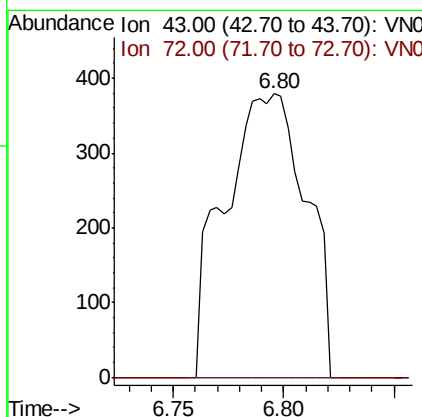
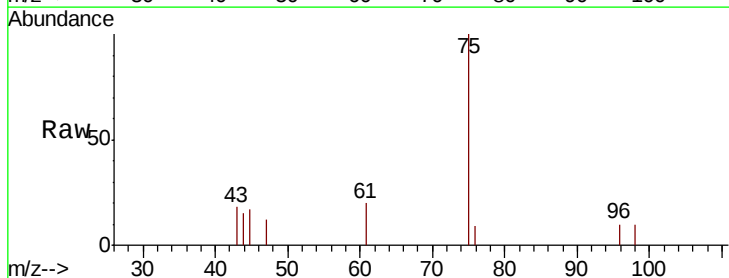
Instrument :
MSVOA_N
ClientSampled :

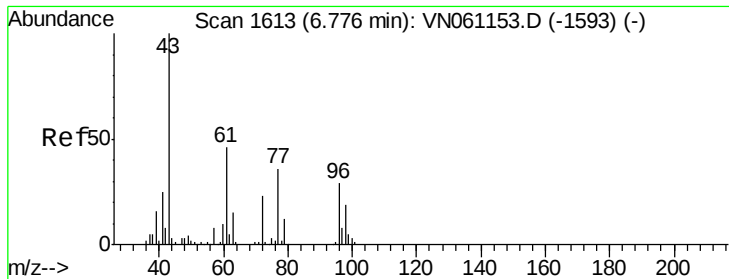
Tot Ion: 43 Resp: 142
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#25
2-Butanone
Concen: 0.932 ug/l
RT: 6.80 min Scan# 1619
Delta R.T. 0.01 min
Lab File: VN061231.D
Acq: 1 May 2020 15:31

Tgt Ion: 43 Resp: 978
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.4#





#27

cis-1,2-Dichloroethene

Concen: 0.471 ug/l

RT: 6.78 min Scan# 1615

Delta R.T. 0.01 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :
MSVOA_N
ClientSampleId :

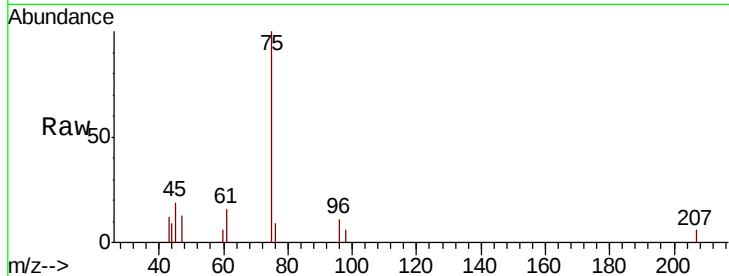
Tot Ion: 96 Resp: 712

Ion Ratio Lower Upper

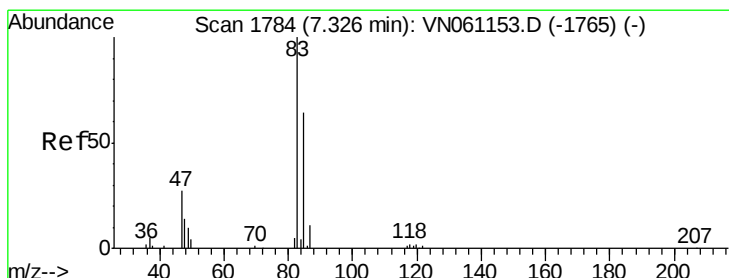
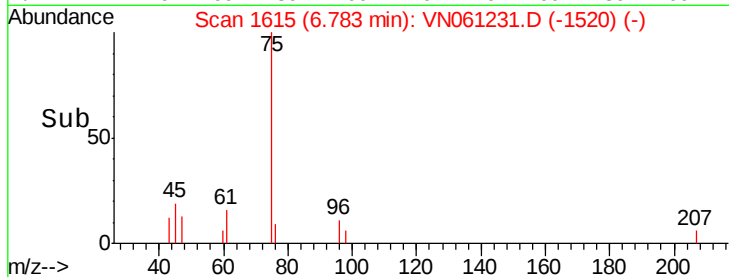
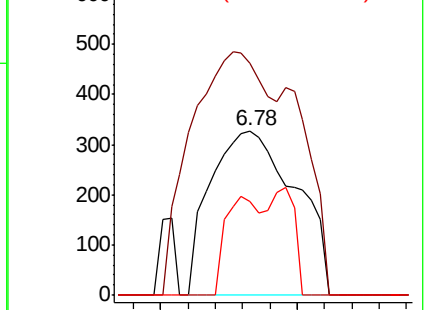
96 100

61 137.2 0.0 322.0

98 23.7 0.0 129.6



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0



#30

Chloroform

Concen: 0.442 ug/l

RT: 7.33 min Scan# 1784

Delta R.T. 0.00 min

Lab File: VN061231.D

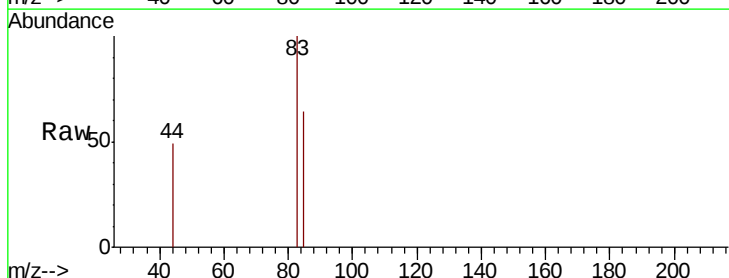
Acq: 1 May 2020 15:31

Tgt Ion: 83 Resp: 1190

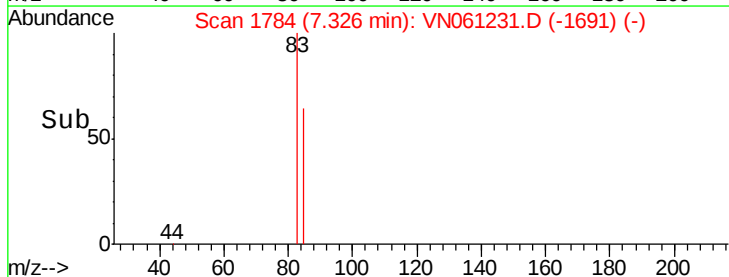
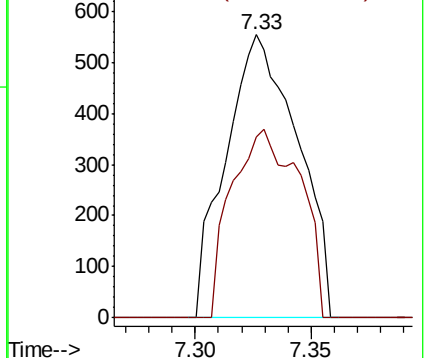
Ion Ratio Lower Upper

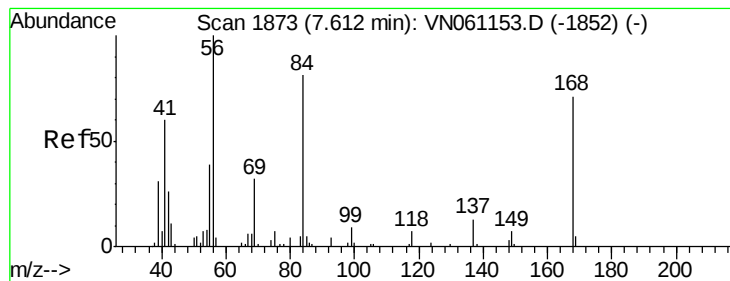
83 100

85 63.7 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0





#31

Cyclohexane

Concen: 1.022 ug/l

RT: 7.63 min Scan# 1879

Delta R.T. 0.02 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :
MSVOA_N
ClientSampleId :

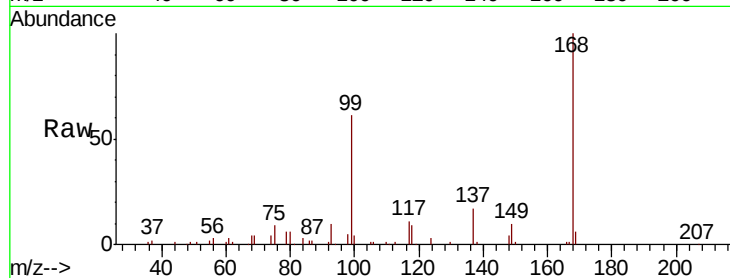
Tot Ion: 56 Resp: 2637

Ion Ratio Lower Upper

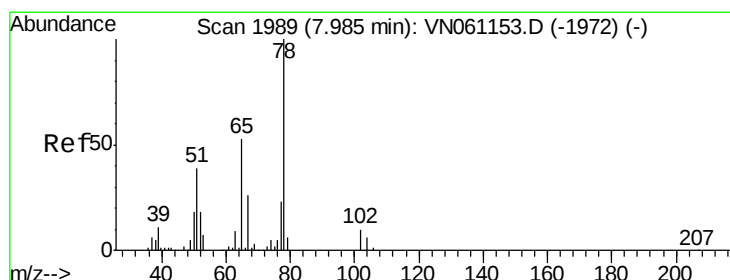
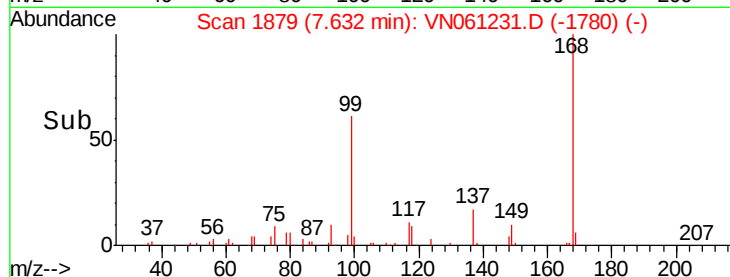
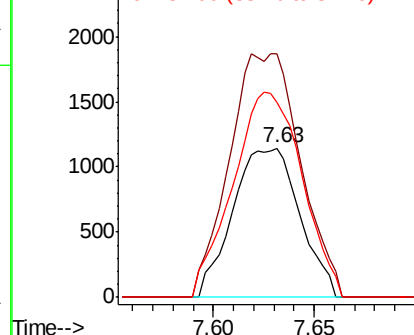
56 100

69 163.0 25.7 38.5#

84 130.4 64.6 97.0#



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: 48.590 ug/l

RT: 7.99 min Scan# 1990

Delta R.T. 0.00 min

Lab File: VN061231.D

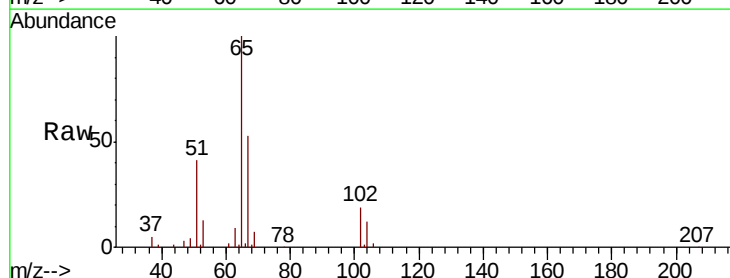
Acq: 1 May 2020 15:31

Tgt Ion: 65 Resp: 86145

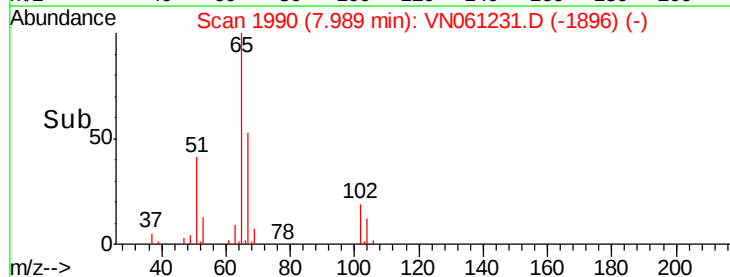
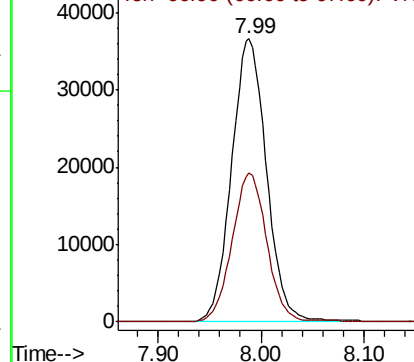
Ion Ratio Lower Upper

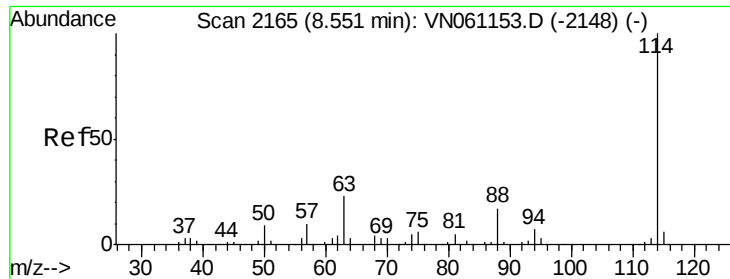
65 100

67 52.2 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

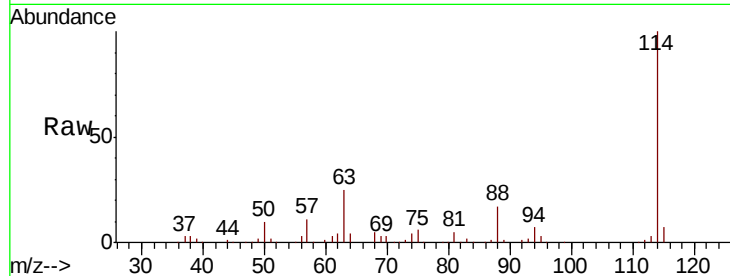




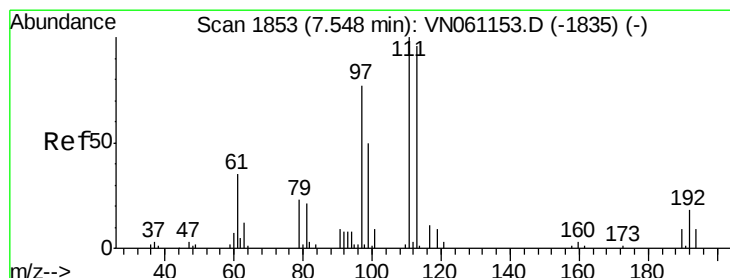
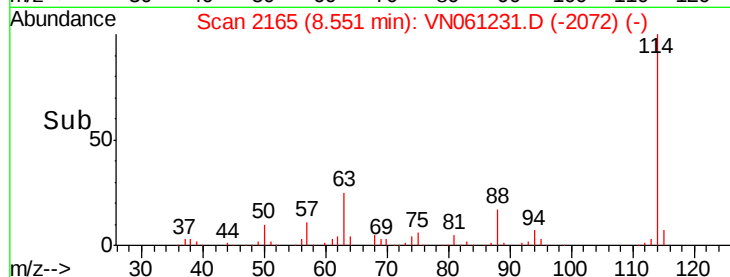
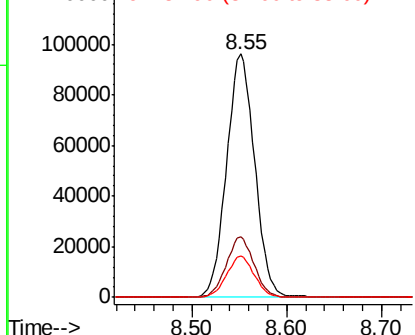
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2165
Delta R.T. 0.00 min
Lab File: VN061231.D
Acq: 1 May 2020 15:31

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 198534
Ion Ratio Lower Upper
114 100
63 24.8 0.0 46.6
88 16.9 0.0 33.4

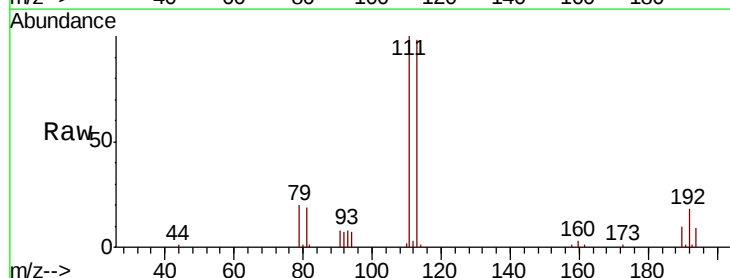


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

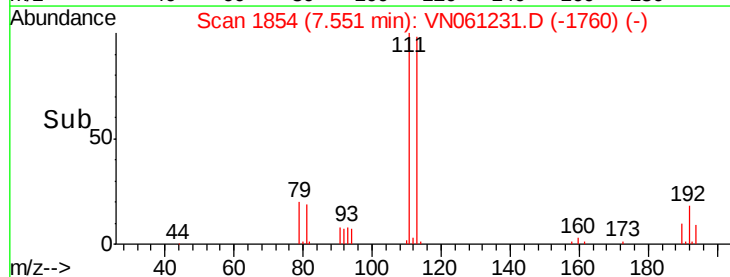
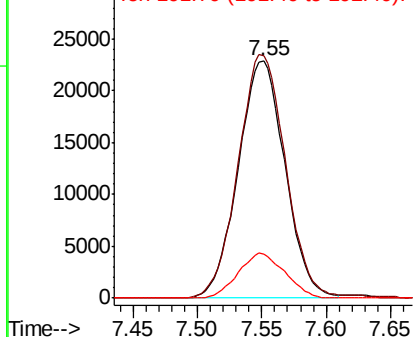


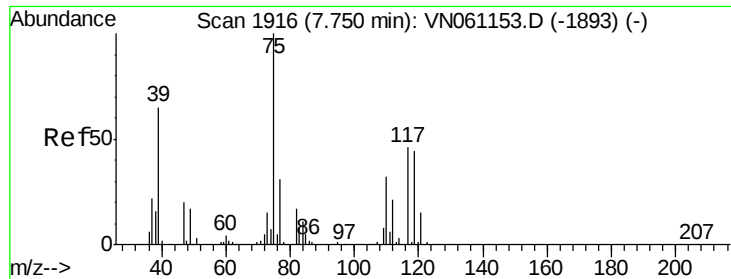
#35
Dibromofluoromethane
Concen: 49.406 ug/l
RT: 7.55 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VN061231.D
Acq: 1 May 2020 15:31

Tgt Ion:113 Resp: 58002
Ion Ratio Lower Upper
113 100
111 104.4 82.9 124.3
192 18.8 14.7 22.1



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

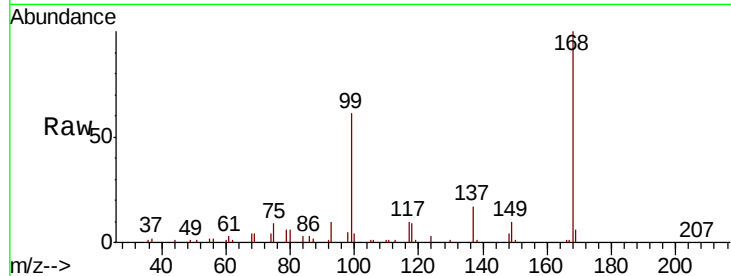




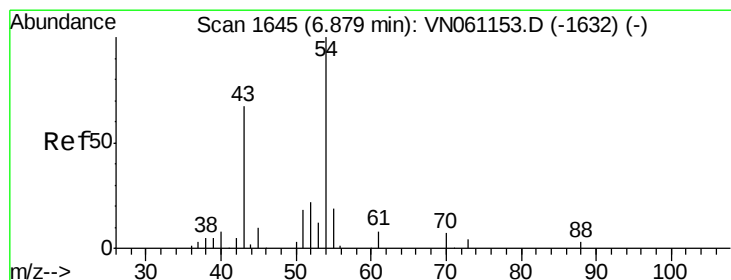
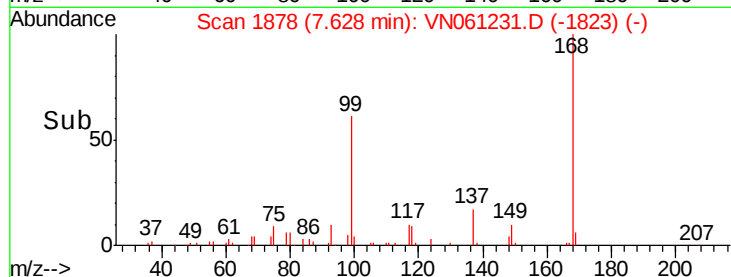
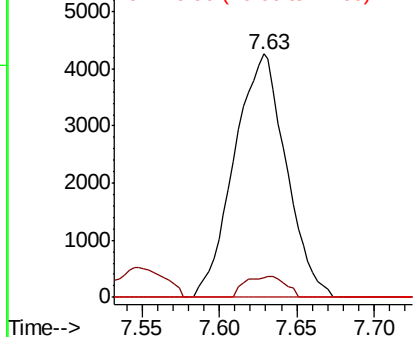
#36
 1,1-Dichloropropene
 Concen: 4.988 ug/l
 RT: 7.63 min Scan# 1878
 Delta R.T. -0.12 min
 Lab File: VN061231.D
 Acq: 1 May 2020 15:31

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 75 Resp: 9914
 Ion Ratio Lower Upper
 75 100
 110 6.7 16.0 48.0#
 77 0.0 24.6 37.0#

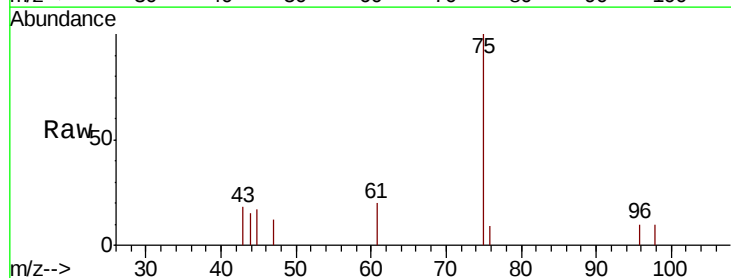


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

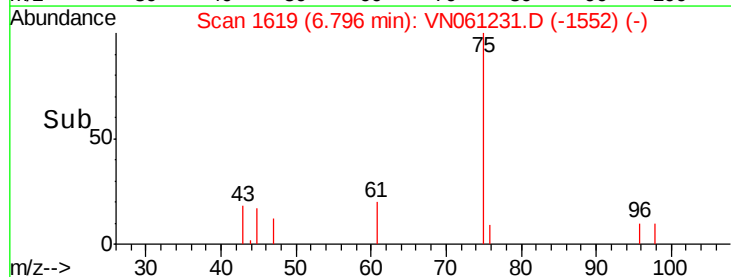
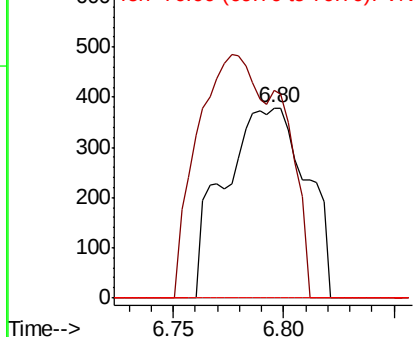


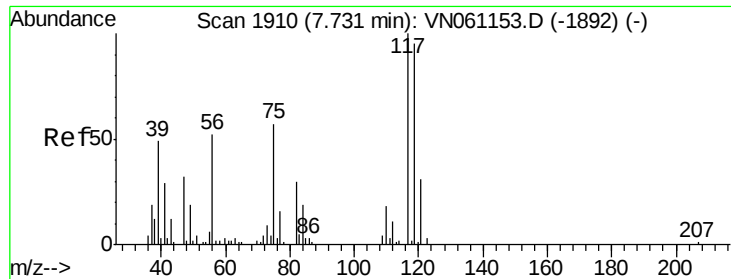
#37
 Ethyl Acetate
 Concen: 0.420 ug/l
 RT: 6.80 min Scan# 1619
 Delta R.T. -0.08 min
 Lab File: VN061231.D
 Acq: 1 May 2020 15:31

Tgt Ion: 43 Resp: 978
 Ion Ratio Lower Upper
 43 100
 61 99.9 10.2 15.2#
 70 0.0 7.2 10.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 8.413 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. -0.11 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :

MSVOA_N

ClientSampled :

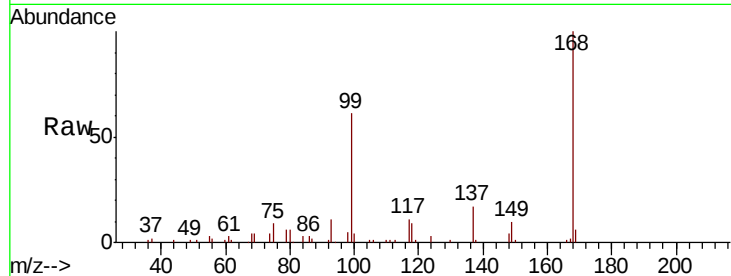
Tot Ion:117 Resp: 11642

Ion Ratio Lower Upper

117 100

119 5.5 75.8 113.6#

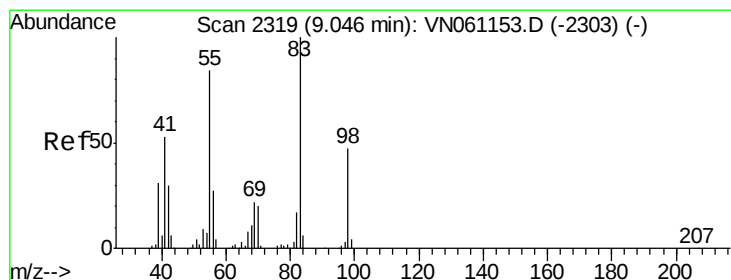
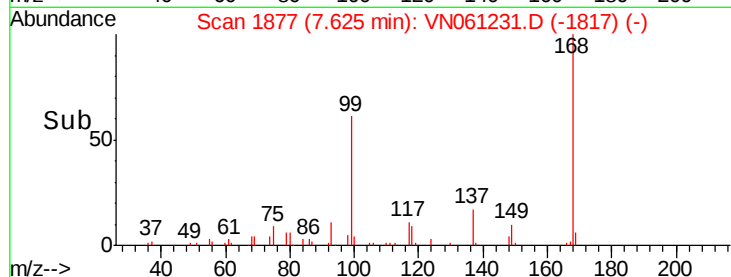
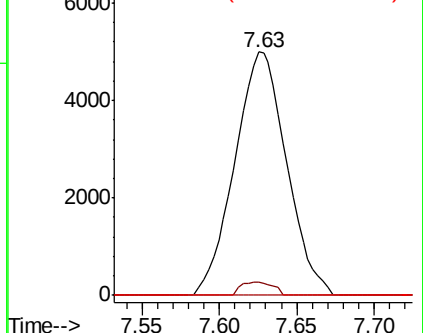
121 0.0 24.7 37.1#



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



#39

Methylcyclohexane

Concen: 0.394 ug/l

RT: 8.80 min Scan# 2242

Delta R.T. -0.25 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

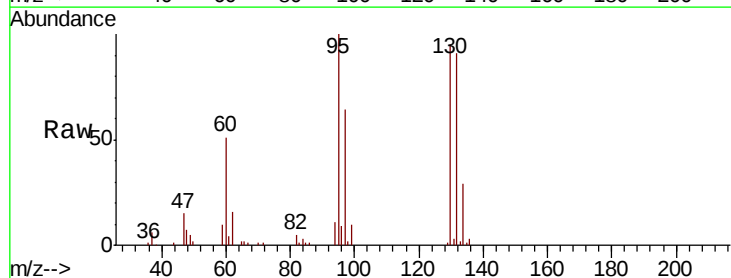
Tgt Ion: 83 Resp: 878

Ion Ratio Lower Upper

83 100

55 0.0 67.3 100.9#

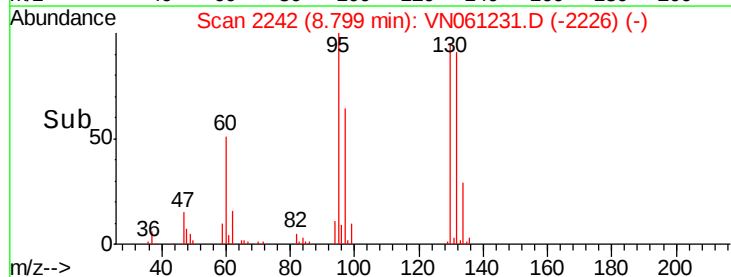
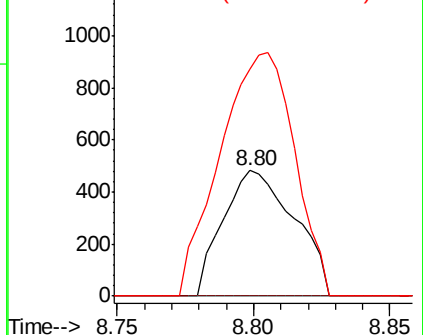
98 181.3 37.7 56.5#

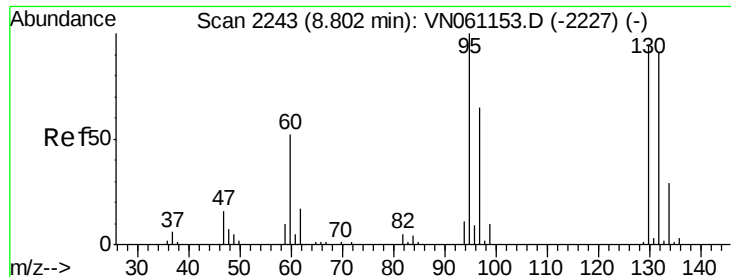


Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 98.00 (97.70 to 98.70): VN0

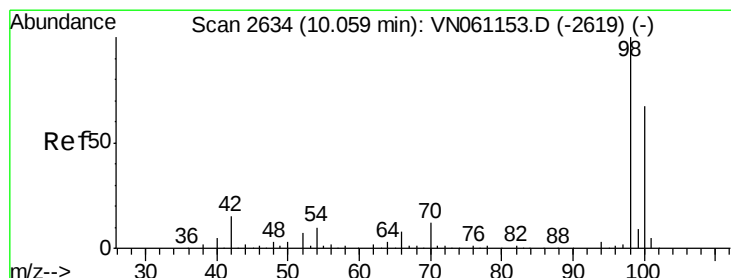
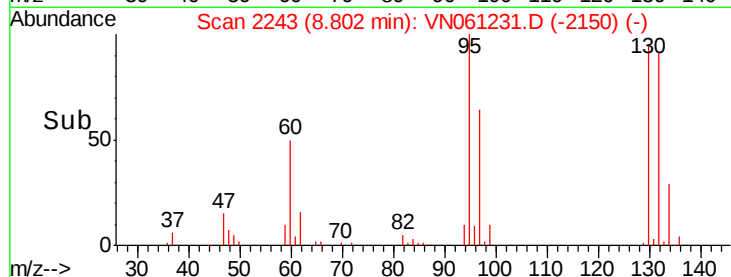
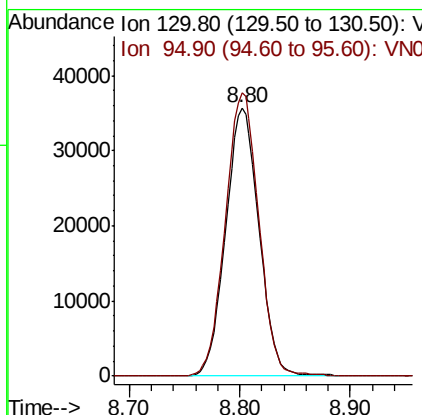
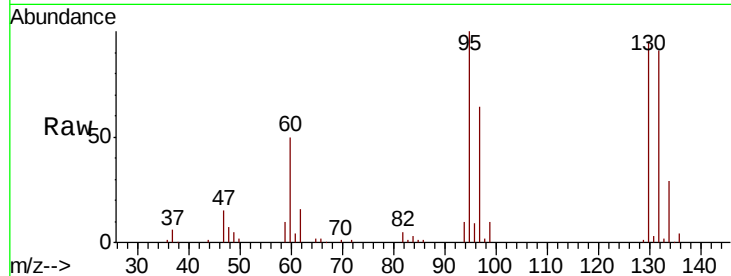




#44
 Trichloroethene
 Concen: 46.581 ug/l
 RT: 8.80 min Scan# 2243
 Delta R.T. 0.00 min
 Lab File: VN061231.D
 Acq: 1 May 2020 15:31

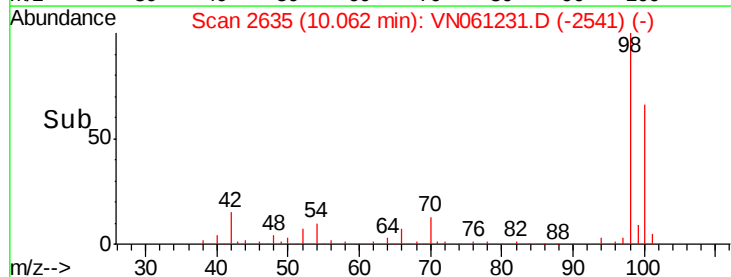
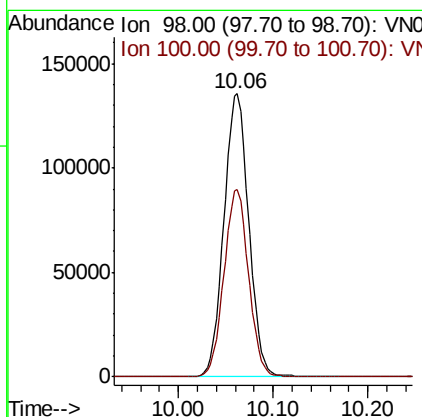
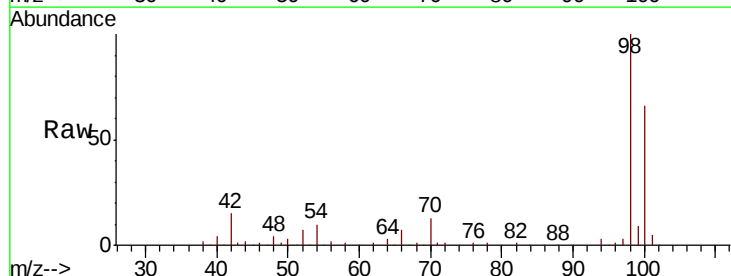
Instrument :
 MSVOA_N
 ClientSampleId :

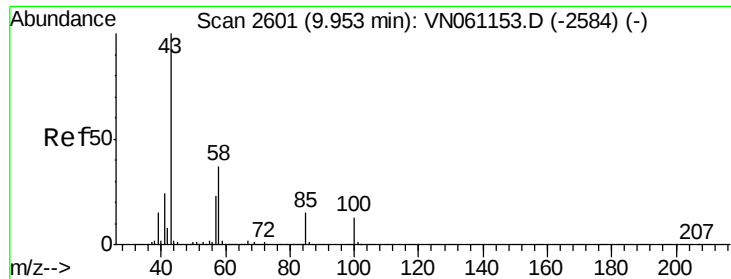
Tot Ion:130 Resp: 74558
 Ion Ratio Lower Upper
 130 100
 95 105.4 0.0 212.4



#50
 Toluene-d8
 Concen: 51.836 ug/l
 RT: 10.06 min Scan# 2635
 Delta R.T. 0.00 min
 Lab File: VN061231.D
 Acq: 1 May 2020 15:31

Tgt Ion: 98 Resp: 248072
 Ion Ratio Lower Upper
 98 100
 100 65.6 53.4 80.0

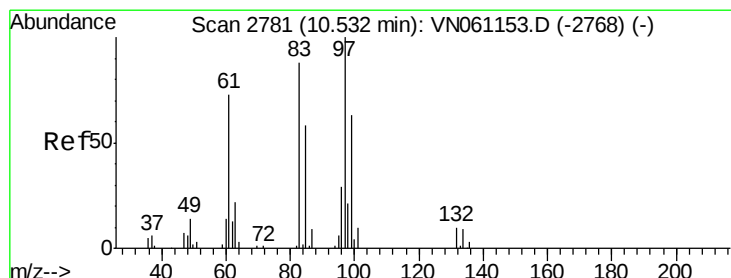
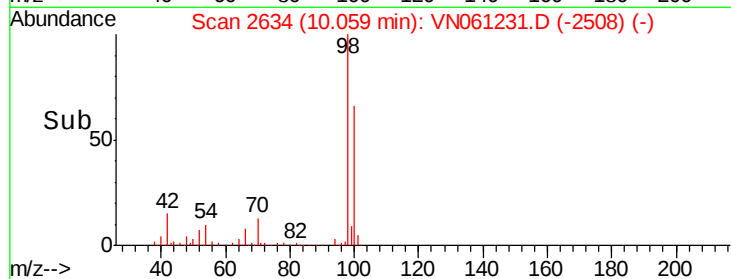
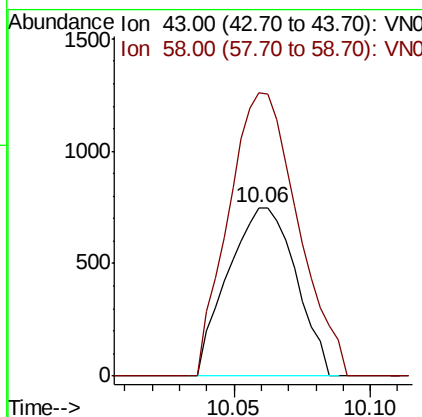
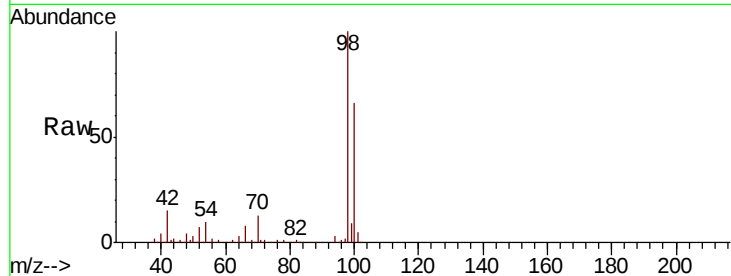




#51
 4-Methyl-2-Pentanone
 Concen: 0.568 ug/l
 RT: 10.06 min Scan# 2634
 Delta R.T. 0.11 min
 Lab File: VN061231.D
 Acq: 1 May 2020 15:31

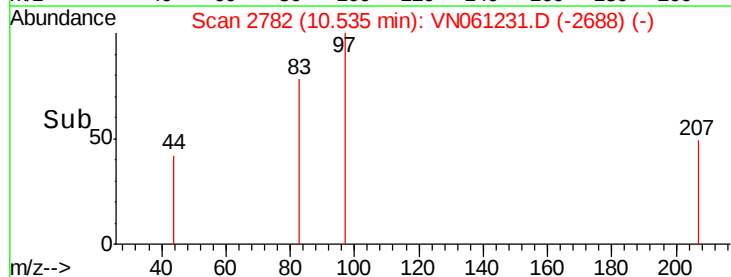
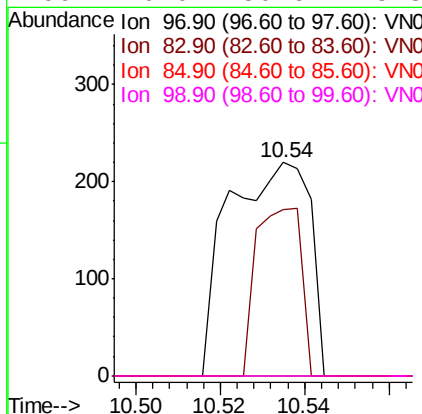
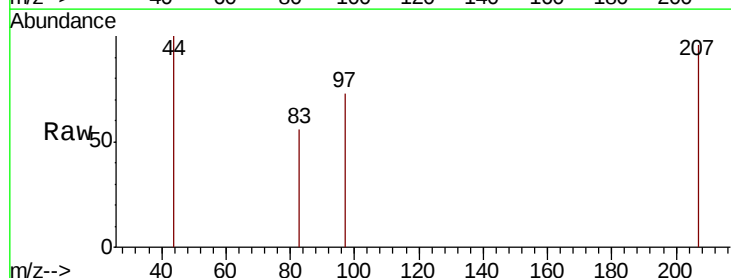
Instrument :
 MSVOA_N
 ClientSampled :

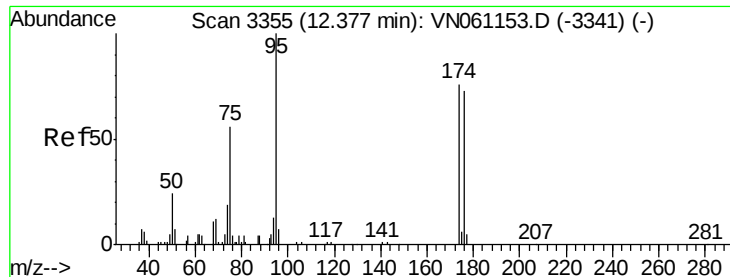
Tot Ion: 43 Resp: 1293
 Ion Ratio Lower Upper
 43 100
 58 171.5 29.1 43.7#



#55
 1,1,2-Trichloroethane
 Concen: 0.208 ug/l
 RT: 10.54 min Scan# 2782
 Delta R.T. 0.00 min
 Lab File: VN061231.D
 Acq: 1 May 2020 15:31

Tgt Ion: 97 Resp: 296
 Ion Ratio Lower Upper
 97 100
 83 77.7 70.6 106.0
 85 0.0 46.4 69.6#
 99 0.0 50.6 75.8#





#62

4-Bromofluorobenzene

Concen: 51.202 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.00 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :

MSVOA_N

ClientSampleId :

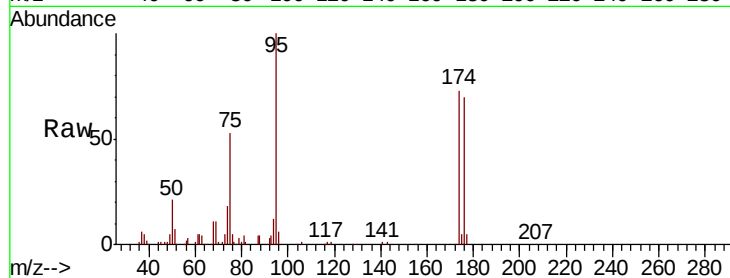
Tot Ion: 95 Resp: 92212

Ion Ratio Lower Upper

95 100

174 72.6 0.0 149.4

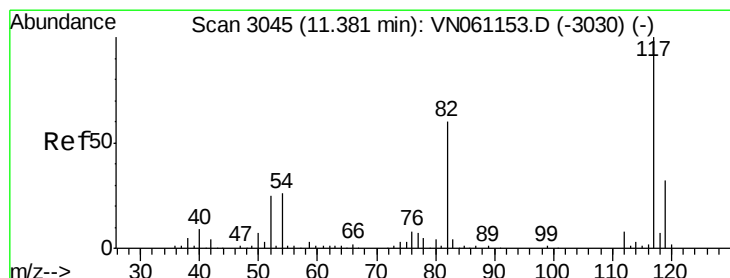
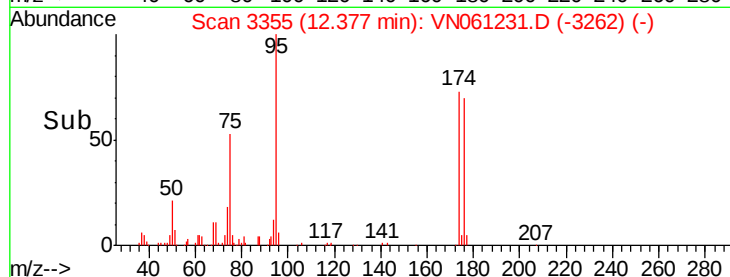
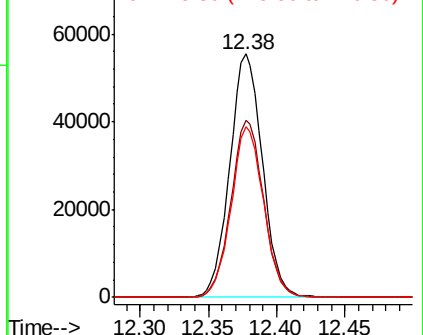
176 69.6 0.0 144.8



Abundance Ion 94.90 (94.60 to 95.60): VN061231.D (-3262) (-)

Ion 173.80 (173.50 to 174.50): VN061231.D (-3262) (-)

Ion 175.80 (175.50 to 176.50): VN061231.D (-3262) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 3045

Delta R.T. 0.00 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

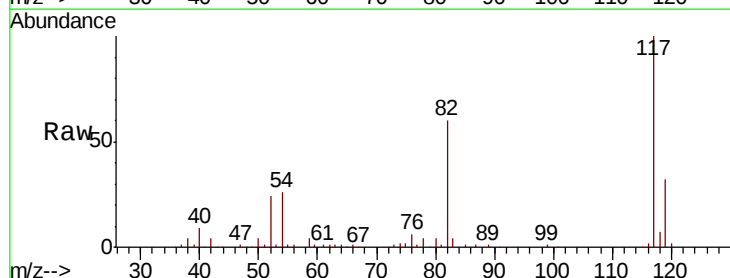
Tgt Ion: 117 Resp: 190890

Ion Ratio Lower Upper

117 100

82 59.7 47.8 71.8

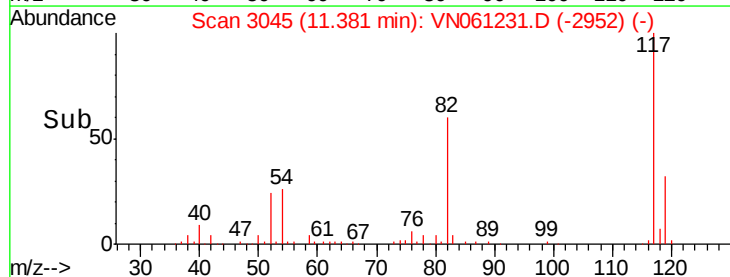
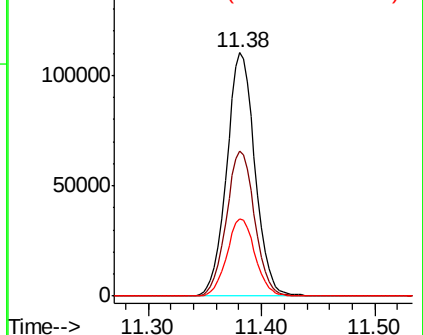
119 31.7 25.8 38.6

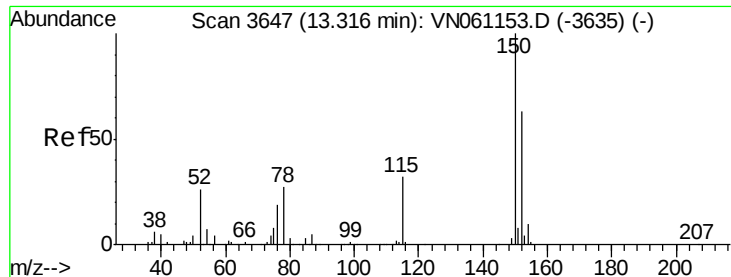


Abundance Ion 116.90 (116.60 to 117.60): VN061231.D (-2952) (-)

Ion 82.00 (81.70 to 82.70): VN061231.D (-2952) (-)

Ion 118.90 (118.60 to 119.60): VN061231.D (-2952) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3648

Delta R.T. 0.00 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :

MSVOA_N

ClientSampled :

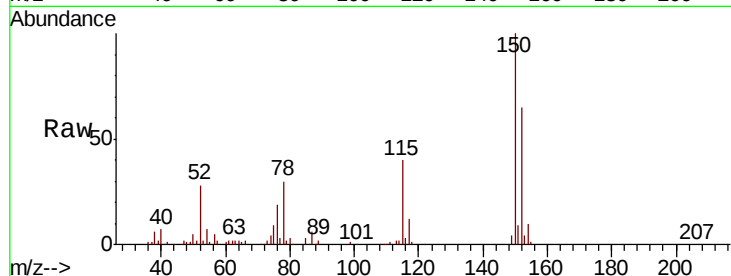
Tot Ion:152 Resp: 83745

Ion Ratio Lower Upper

152 100

115 62.7 31.0 93.0

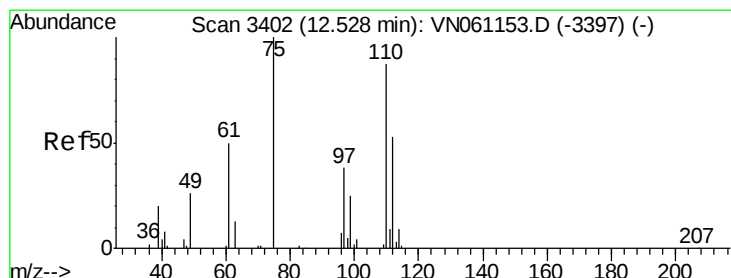
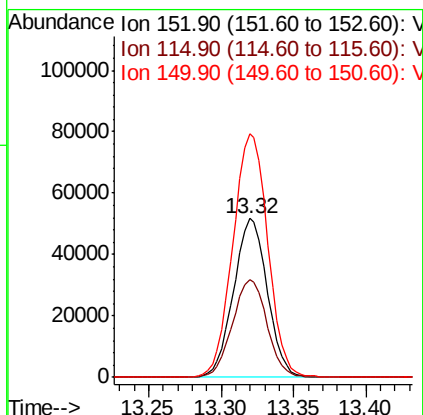
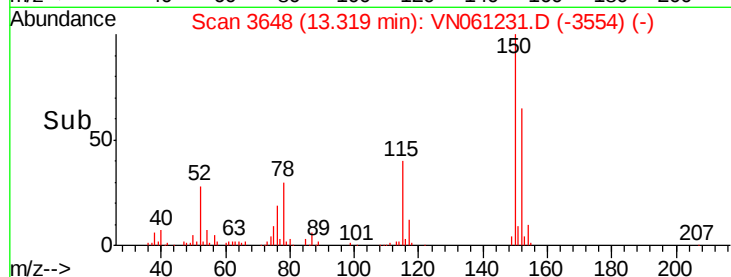
150 158.6 0.0 351.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 27.910 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061231.D

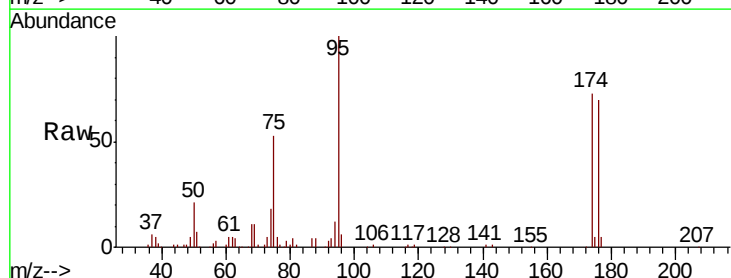
Acq: 1 May 2020 15:31

Tgt Ion: 75 Resp: 49277

Ion Ratio Lower Upper

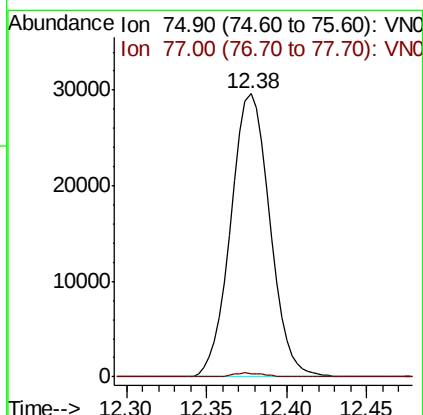
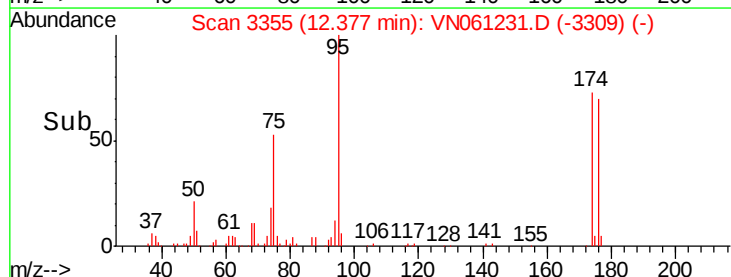
75 100

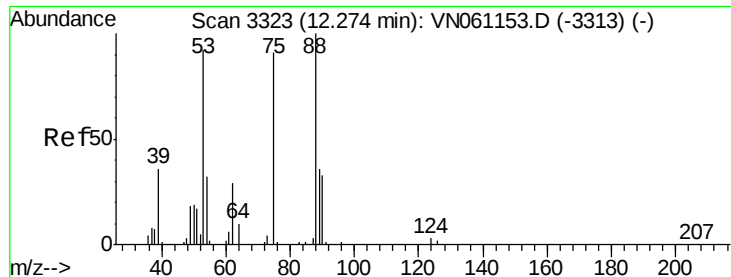
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 70.877 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061231.D

Acq: 1 May 2020 15:31

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 49277

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

89 0.0 35.2 52.8#

