

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031220\
 Data File : VN060473.D
 Acq On : 12 Mar 2020 12:55
 Operator : JC/MD
 Sample : L1887-03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CL-TP

Quant Time: Mar 13 02:03:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200346	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	331988	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	311330	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144622	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	131051	50.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.96%	
35) Dibromofluoromethane	7.57	113	99038	64.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.54%	
50) Toluene-d8	10.08	98	413527	53.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.04%	
62) 4-Bromofluorobenzene	12.40	95	152961	51.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.48%	

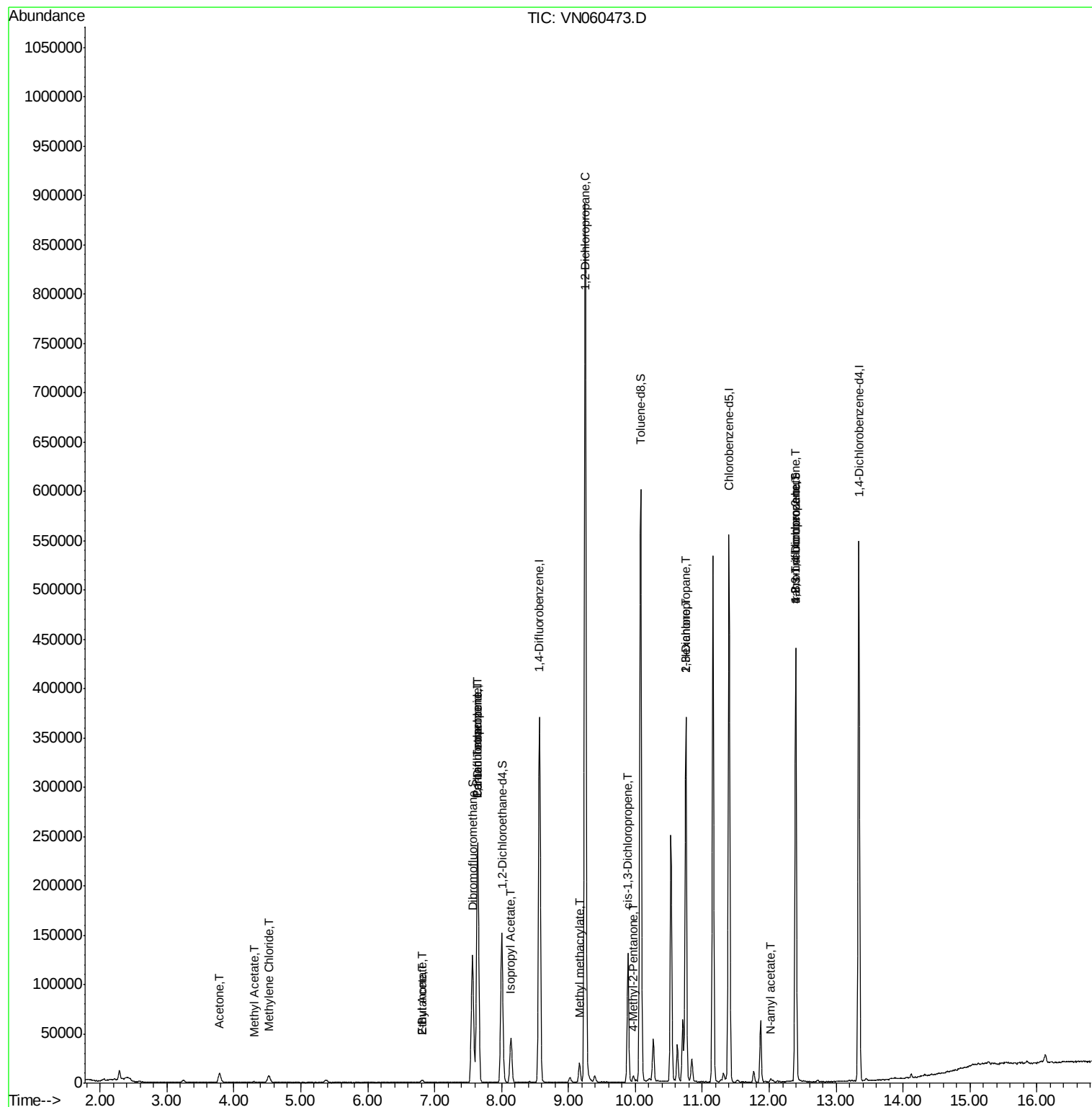
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	17007	20.49	ug/l	99
17) Carbon Disulfide	4.02	76	646	Below	Cal	# 75
18) Methyl Acetate	4.30	43	1545	0.56	ug/l	# 52
20) Methylene Chloride	4.53	84	5347	2.35	ug/l	95
25) 2-Butanone	6.81	43	5680	4.24	ug/l	96
31) Cyclohexane	7.64	56	4398	Below	Cal	# 11
36) 1,1-Dichloropropene	7.64	75	15407	4.87	ug/l	# 46
37) Ethyl Acetate	6.81	43	5680	1.90	ug/l	# 68
38) Carbon Tetrachloride	7.64	117	19376	6.29	ug/l	# 15
43) Isopropyl Acetate	8.14	43	55363	10.56	ug/l	# 89
45) 1,2-Dichloropropane	9.25	63	989	0.41	ug/l	# 44
48) Methyl methacrylate	9.16	41	2942	1.23	ug/l	# 13
51) 4-Methyl-2-Pentanone	9.97	43	4357	1.47	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	22752	5.64	ug/l	# 60
57) 1,3-Dichloropropane	10.75	76	3757	0.99	ug/l	# 42
59) 2-Hexanone	10.75	43	54488	24.96	ug/l	# 52
74) N-amyl acetate	12.02	43	2907	0.62	ug/l	# 44
76) 1,2,3-Trichloropropane	12.40	75	78525	24.75	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.40	75	78525	68.32	ug/l	# 8
87) 1,3-Dichlorobenzene	13.36	146	29	Below	Cal	# 1
88) 1,4-Dichlorobenzene	13.36	146	29	Below	Cal	# 1
95) Naphthalene	15.12	128	339	Below	Cal	# 69

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN031220\
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QLast Update : Thu Feb 27 13:52:50 2020
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

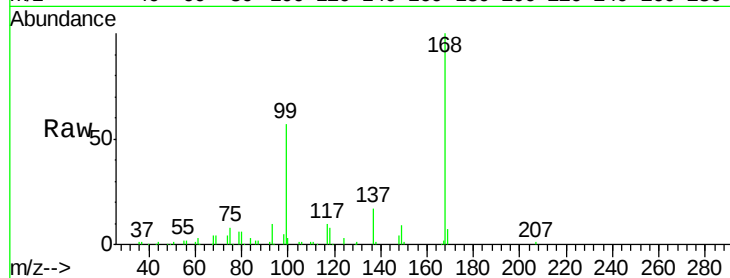
CL-TP

Tgt Ion:168 Resp: 200346

Ion Ratio Lower Upper

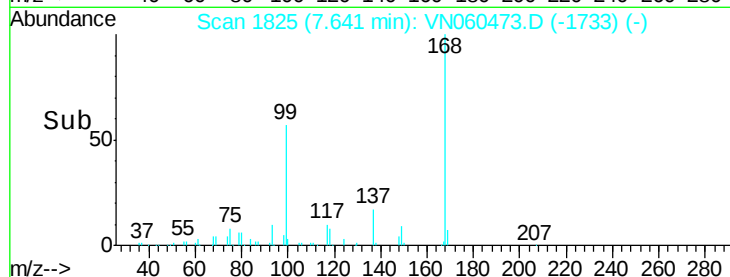
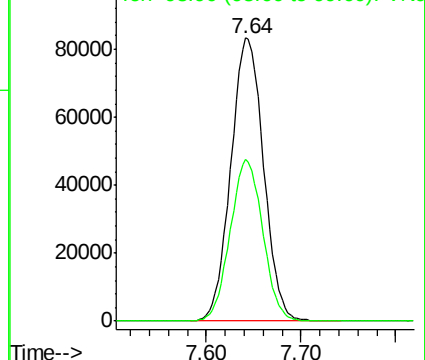
168 100

99 57.1 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 20.49 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060473.D

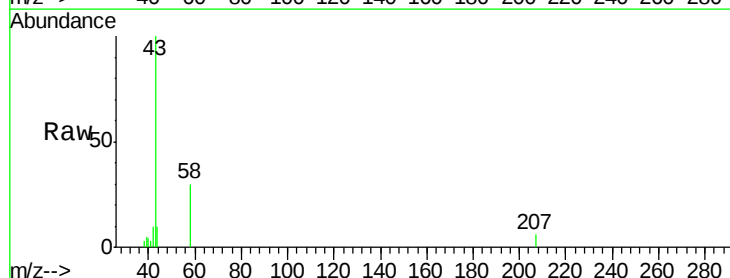
Acq: 12 Mar 2020 12:55

Tgt Ion: 43 Resp: 17007

Ion Ratio Lower Upper

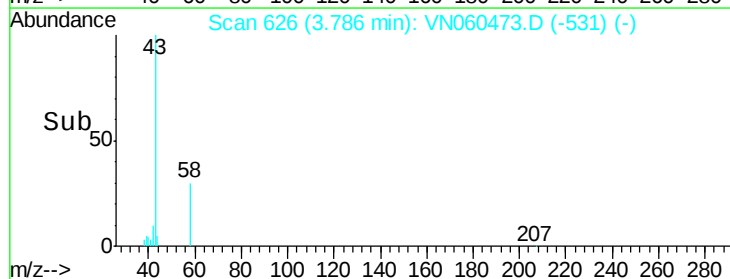
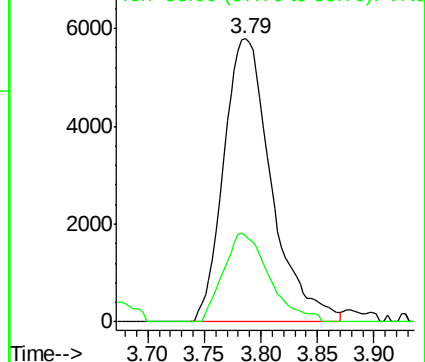
43 100

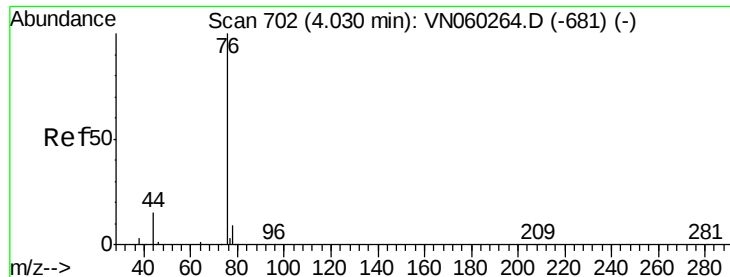
58 30.3 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

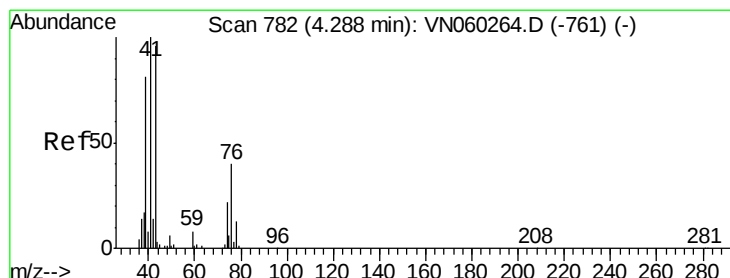
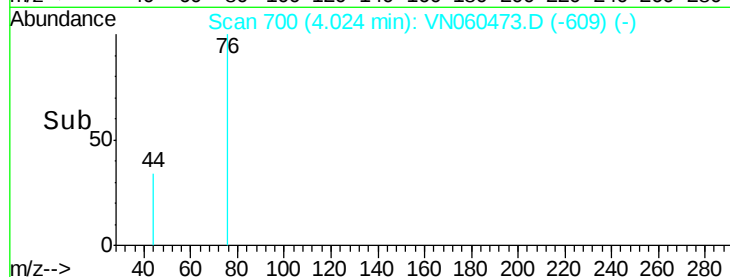
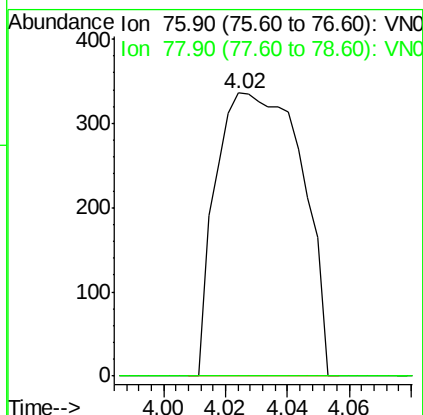
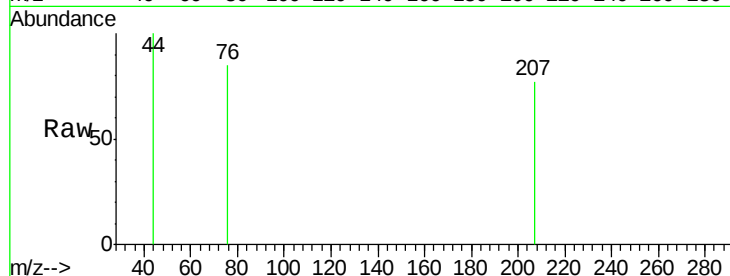




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.02 min Scan# 700
Delta R.T. -0.01 min
Lab File: VN060473.D
Acq: 12 Mar 2020 12:55

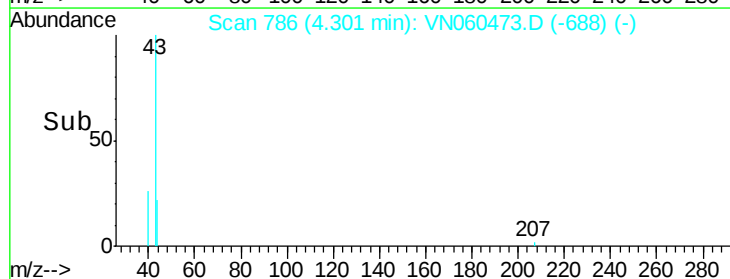
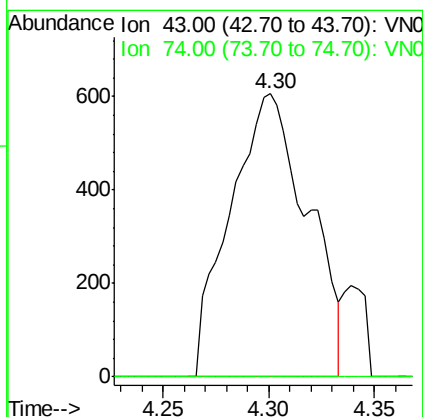
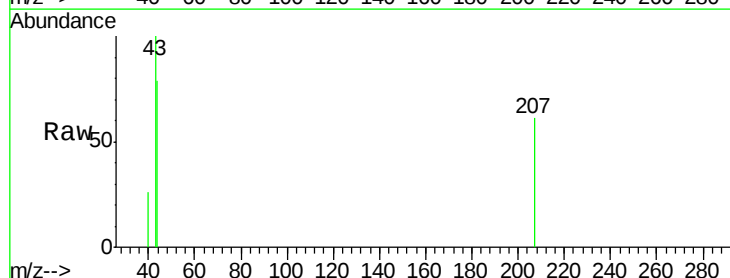
Instrument :
MSVOA_N
ClientSampleId :
CL-TP

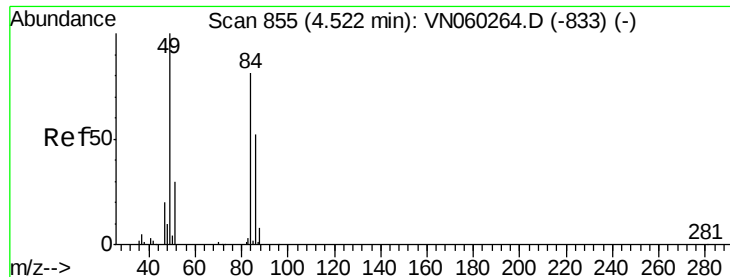
Tgt Ion: 76 Resp: 646
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.56 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060473.D
Acq: 12 Mar 2020 12:55

Tgt Ion: 43 Resp: 1545
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#

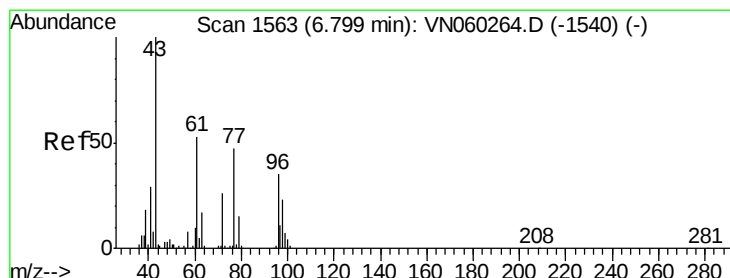
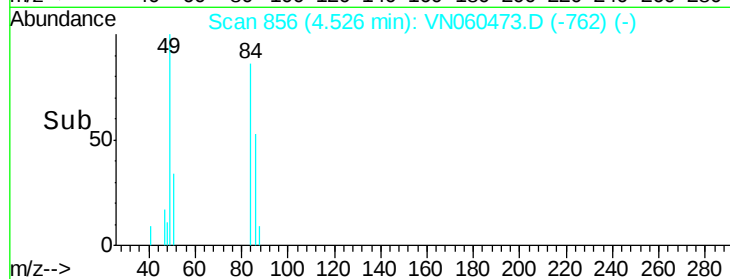
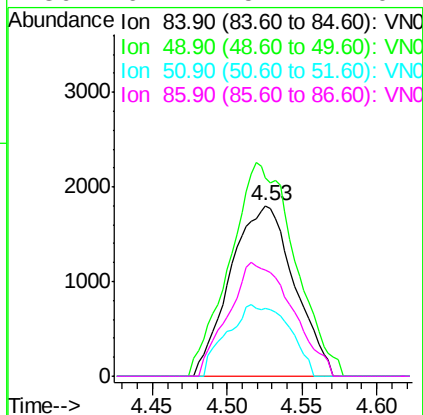
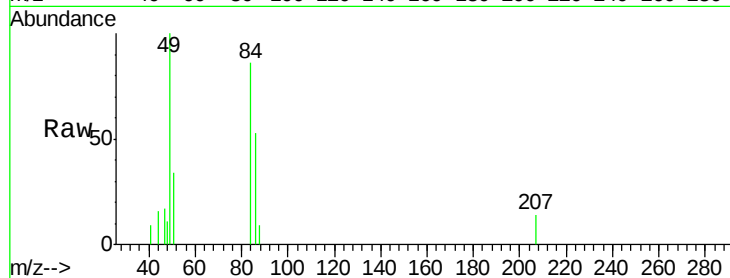




#20
Methylene Chloride
Concen: 2.35 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060473.D
Acq: 12 Mar 2020 12:55

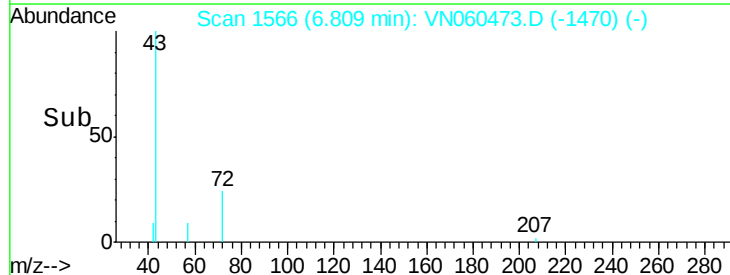
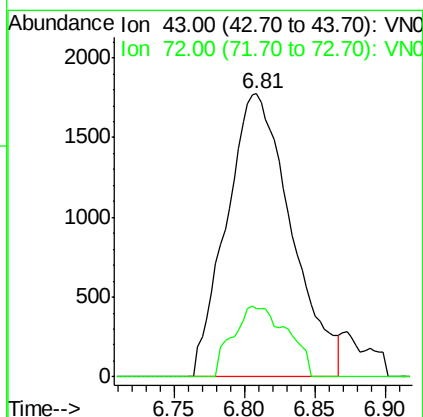
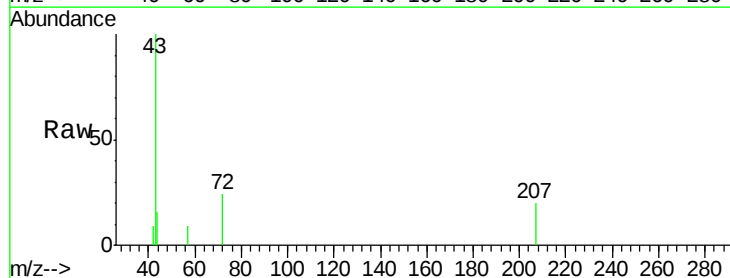
Instrument :
MSVOA_N
ClientSampled :
CL-TP

Tgt Ion: 84 Resp: 5347
Ion Ratio Lower Upper
84 100
49 116.5 99.3 148.9
51 39.5 30.1 45.1
86 62.1 51.1 76.7



#25
2-Butanone
Concen: 4.24 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VN060473.D
Acq: 12 Mar 2020 12:55

Tgt Ion: 43 Resp: 5680
Ion Ratio Lower Upper
43 100
72 24.0 20.9 31.3

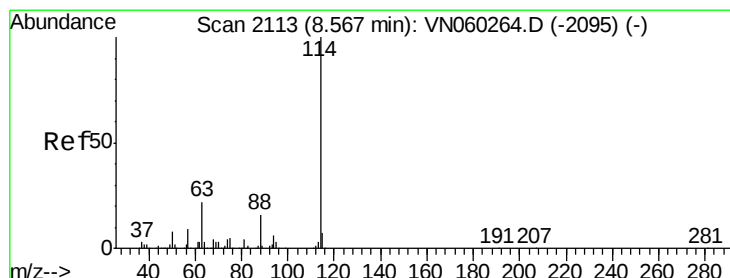
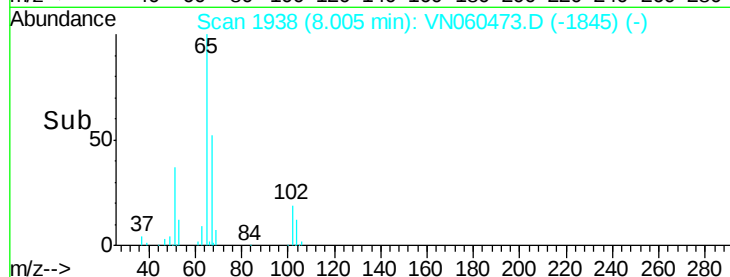
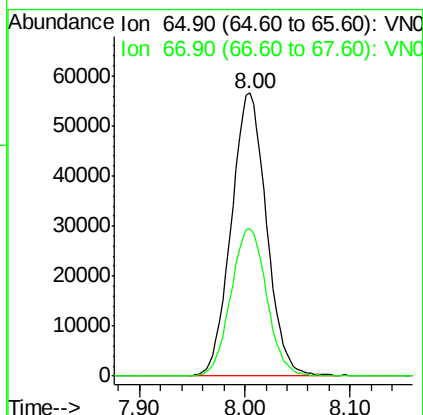
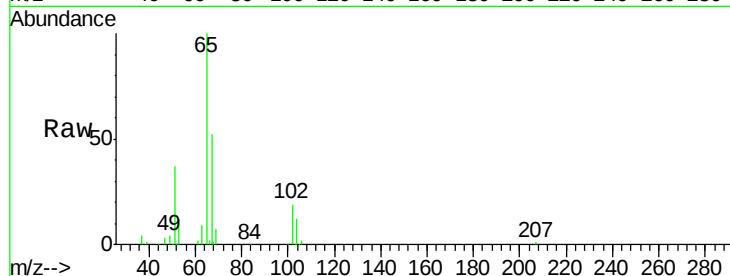




#33
 1,2-Dichloroethane-d4
 Concen: 50.98 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060473.D
 Acq: 12 Mar 2020 12:55

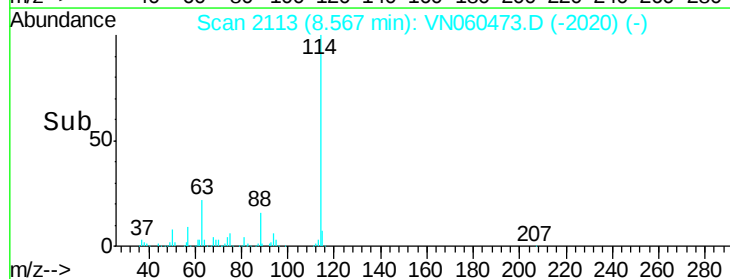
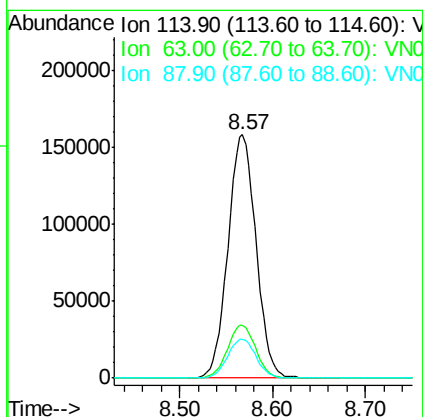
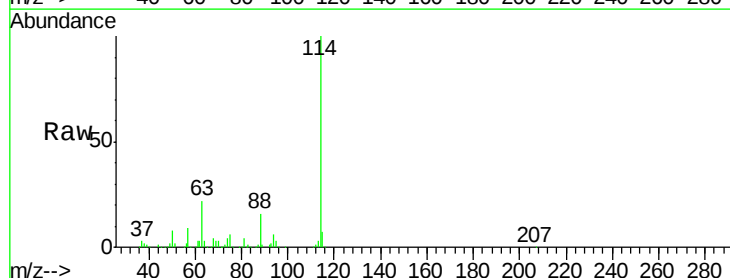
Instrument :
 MSVOA_N
 ClientSampled :
 CL-TP

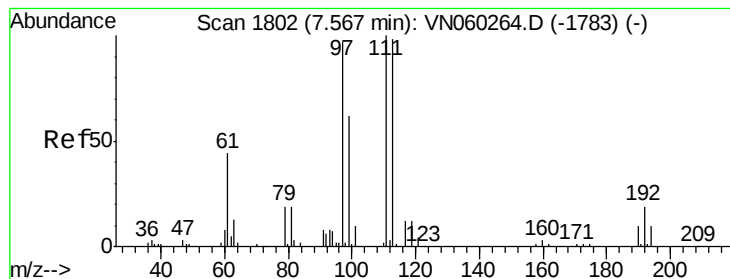
Tgt Ion: 65 Resp: 131051
 Ion Ratio Lower Upper
 65 100
 67 53.1 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060473.D
 Acq: 12 Mar 2020 12:55

Tgt Ion: 114 Resp: 331988
 Ion Ratio Lower Upper
 114 100
 63 21.6 0.0 43.2
 88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 64.27 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampled :

CL-TP

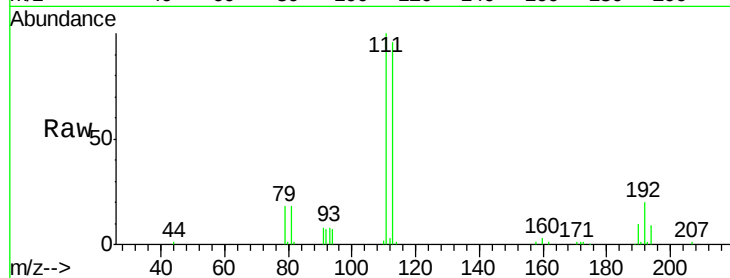
Tgt Ion:113 Resp: 99038

Ion Ratio Lower Upper

113 100

111 103.5 82.4 123.6

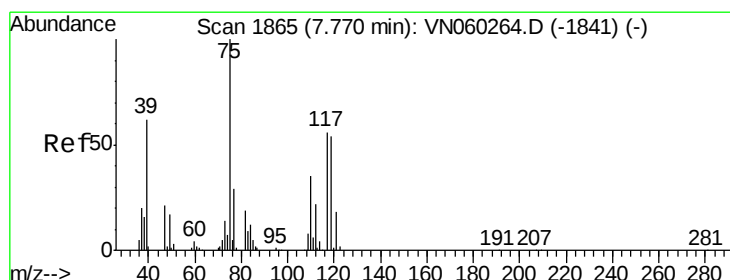
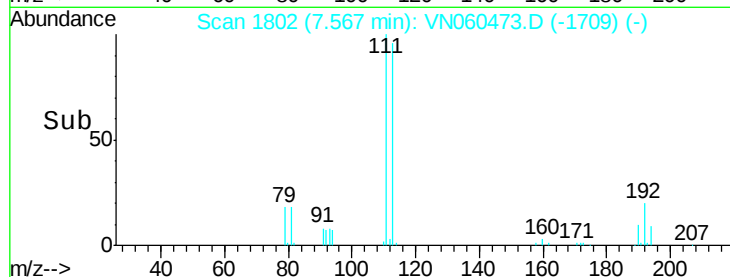
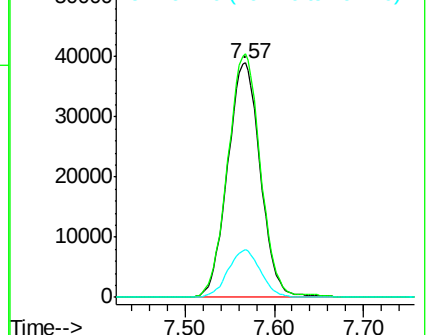
192 20.1 16.2 24.2



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: 4.87 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

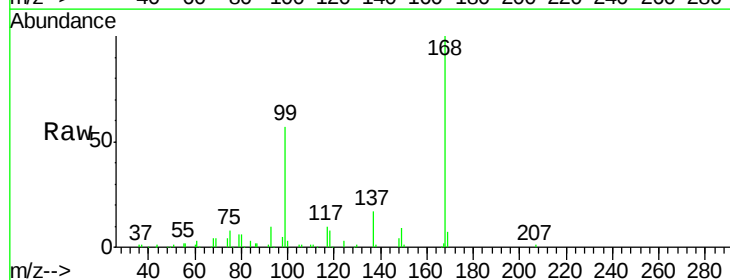
Tgt Ion: 75 Resp: 15407

Ion Ratio Lower Upper

75 100

110 4.6 17.3 52.0#

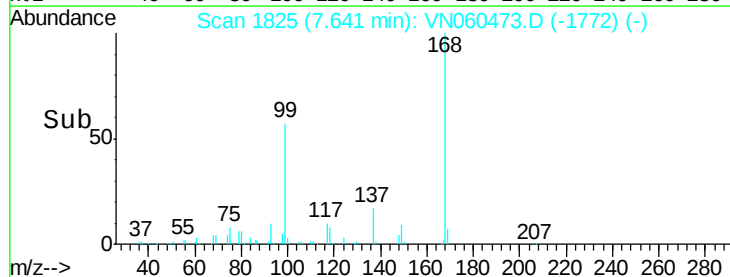
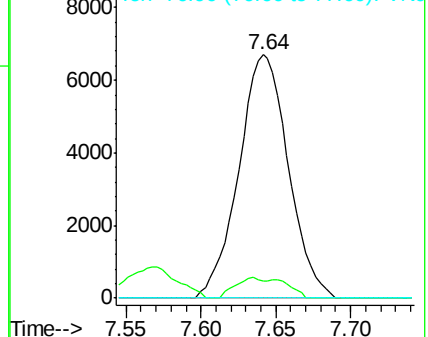
77 0.0 24.2 36.2#

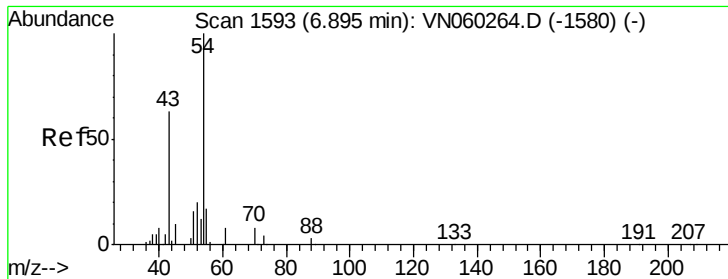


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#37

Ethyl Acetate

Concen: 1.90 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

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CL-TP

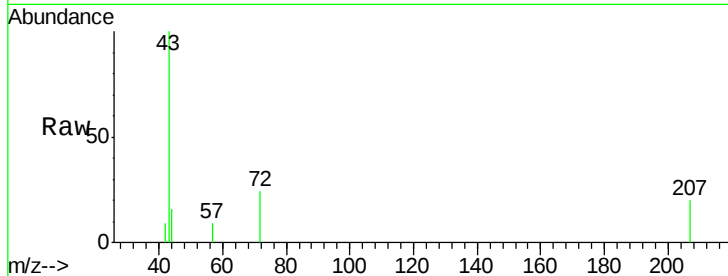
Tgt Ion: 43 Resp: 5680

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

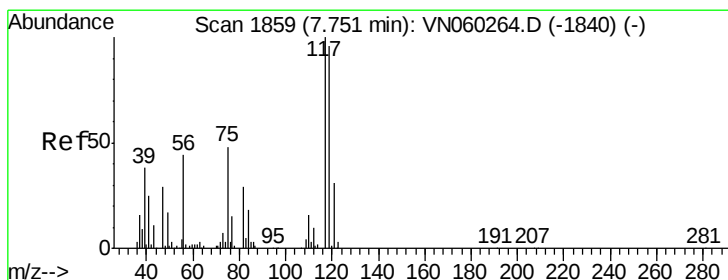
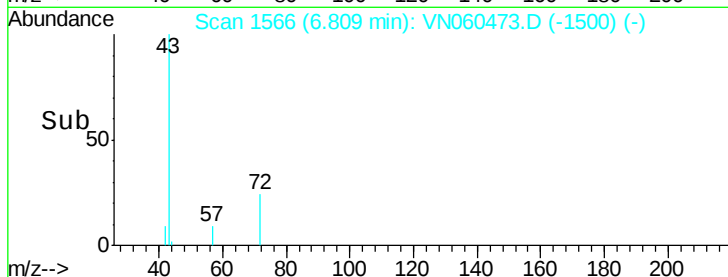
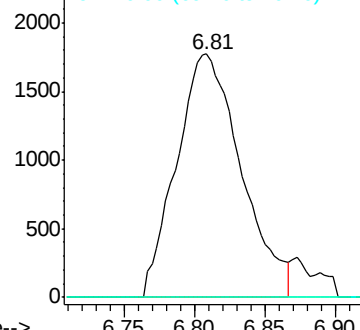
70 0.0 8.4 12.6#



Abundance Ion 43.00 (42.70 to 43.70): VN060473.D (-1566) (-)

Ion 60.90 (60.60 to 61.60): VN060473.D (-1566) (-)

Ion 70.00 (69.70 to 70.70): VN060473.D (-1566) (-)



#38

Carbon Tetrachloride

Concen: 6.29 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

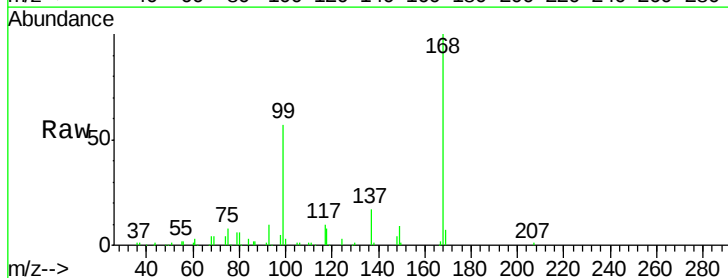
Tgt Ion: 117 Resp: 19376

Ion Ratio Lower Upper

117 100

119 4.3 76.7 115.1#

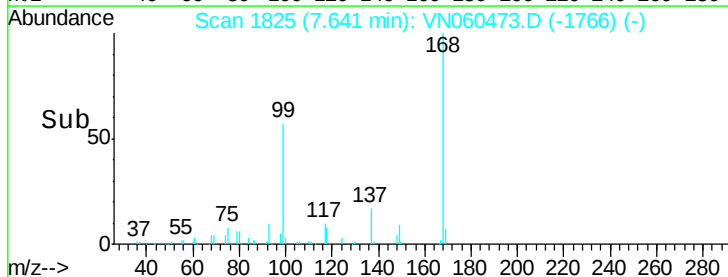
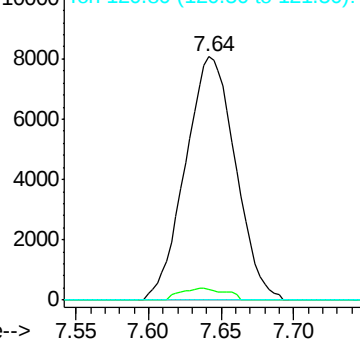
121 0.0 24.5 36.7#

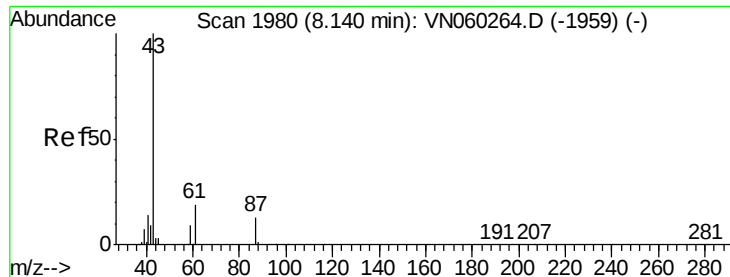


Abundance Ion 116.80 (116.50 to 117.50): VN060473.D (-1825) (-)

Ion 118.80 (118.50 to 119.50): VN060473.D (-1825) (-)

Ion 120.80 (120.50 to 121.50): VN060473.D (-1825) (-)





#43

Isopropyl Acetate

Concen: 10.56 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

CL-TP

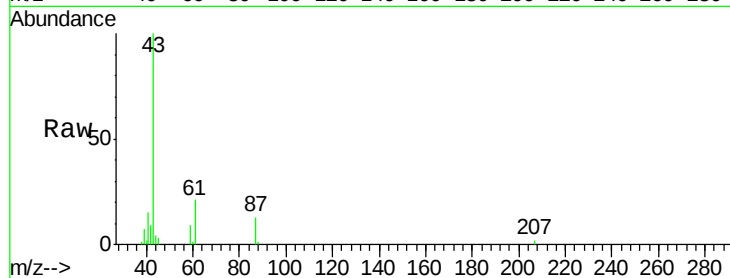
Tgt Ion: 43 Resp: 55363

Ion Ratio Lower Upper

43 100

61 18.9 20.9 31.3#

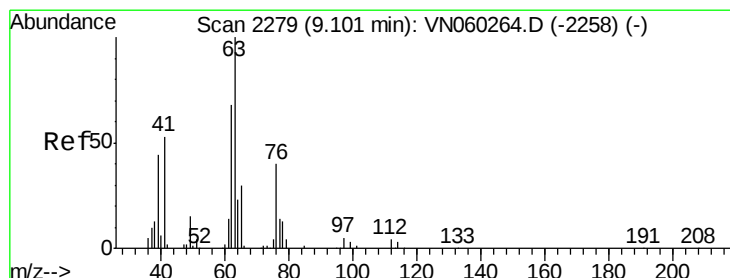
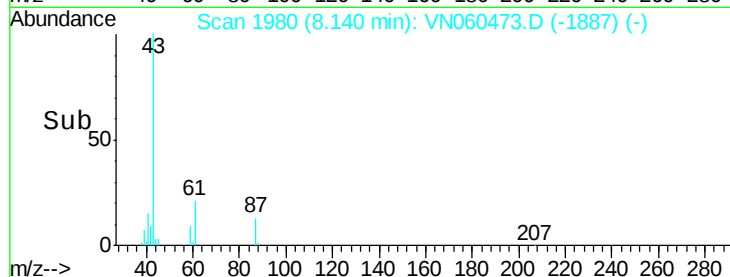
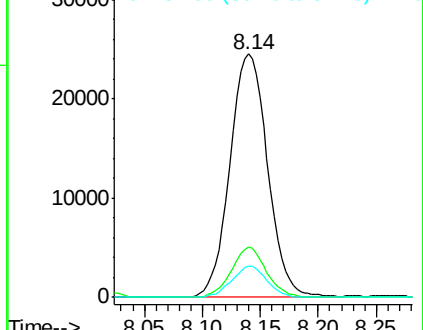
87 11.9 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060473.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060473.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060473.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.41 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060473.D

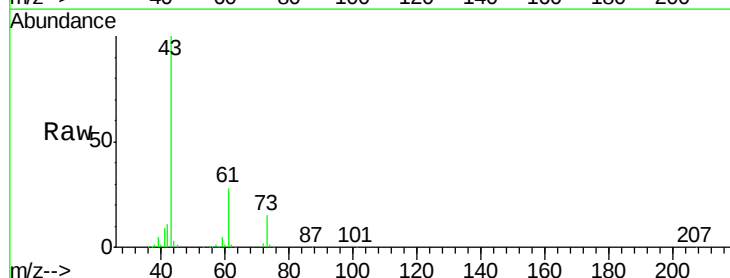
Acq: 12 Mar 2020 12:55

Tgt Ion: 63 Resp: 989

Ion Ratio Lower Upper

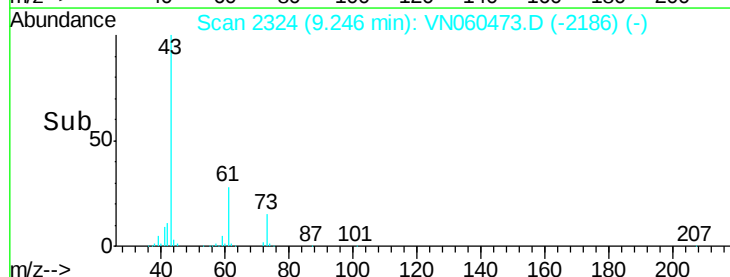
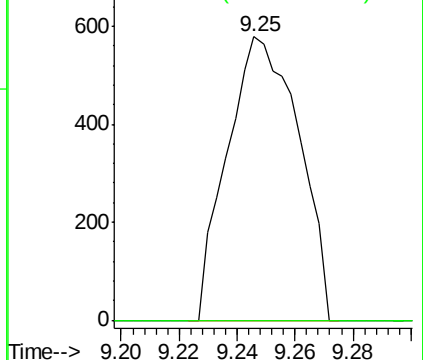
63 100

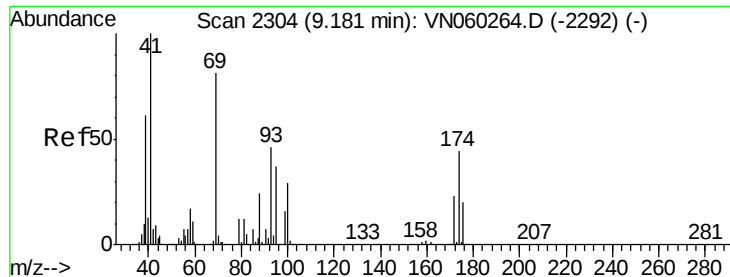
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060473.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060473.D (-2258) (-)

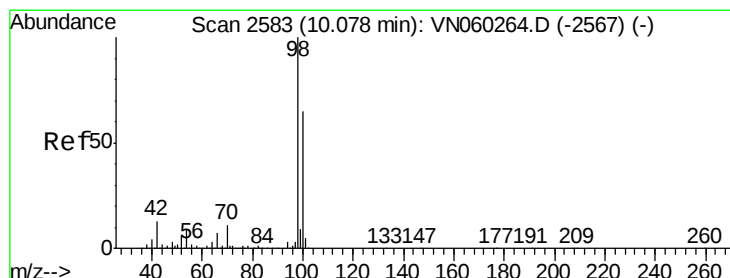
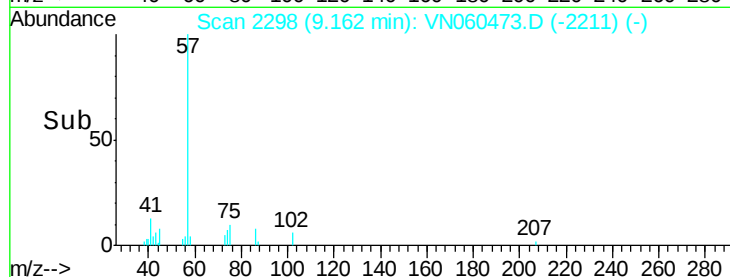
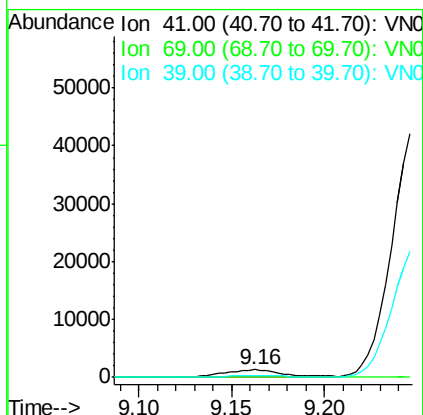
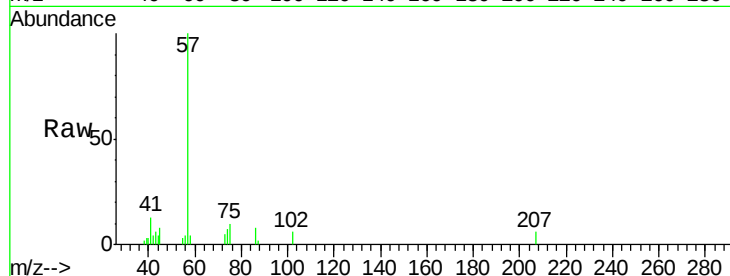




#48
Methyl methacrylate
Concen: 1.23 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060473.D
Acq: 12 Mar 2020 12:55

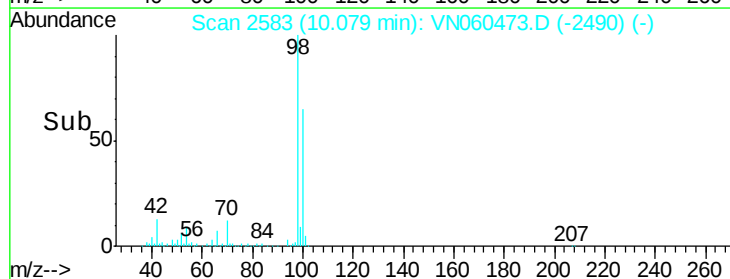
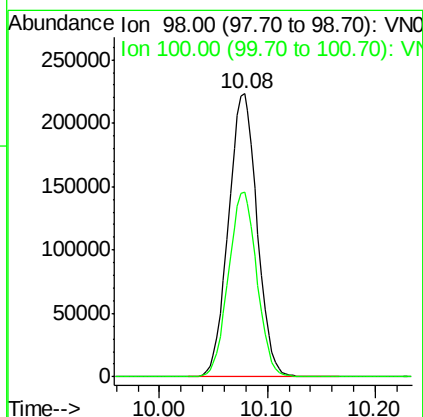
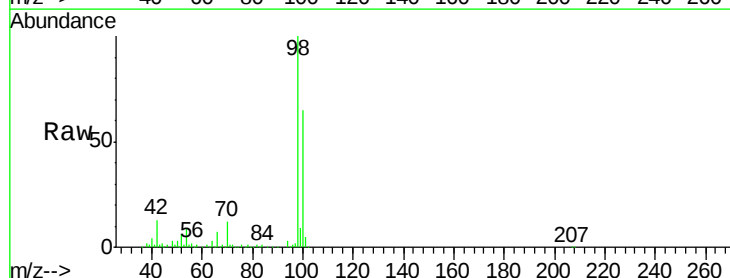
Instrument :
MSVOA_N
ClientSampled :
CL-TP

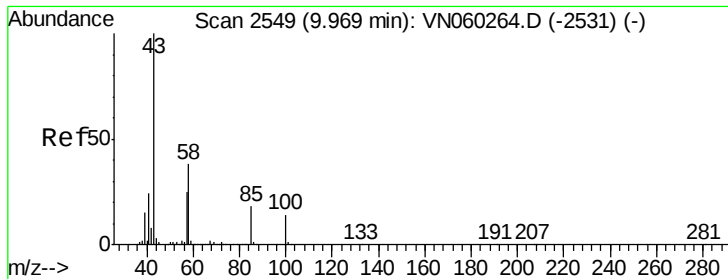
Tgt Ion: 41 Resp: 2942
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 53.02 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060473.D
Acq: 12 Mar 2020 12:55

Tgt Ion: 98 Resp: 413527
Ion Ratio Lower Upper
98 100
100 64.8 52.2 78.2

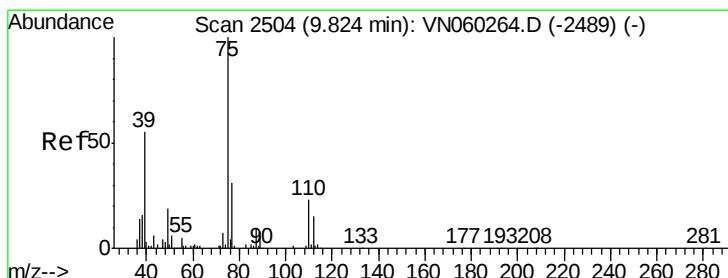
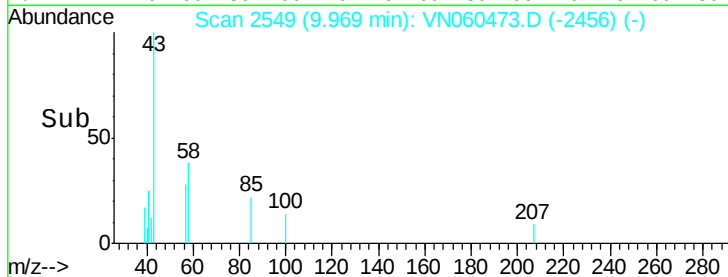
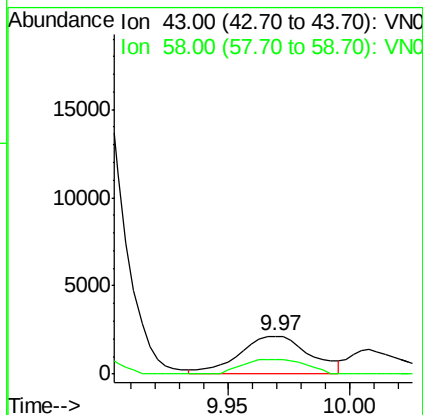
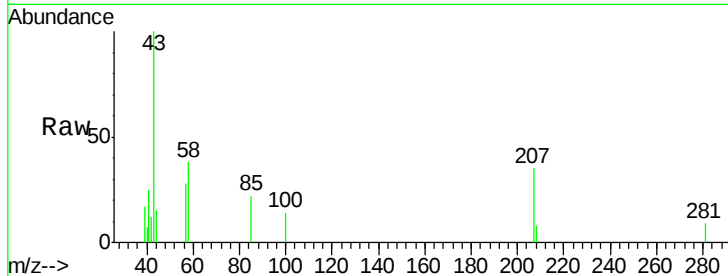




#51
 4-Methyl-2-Pentanone
 Concen: 1.47 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060473.D
 Acq: 12 Mar 2020 12:55

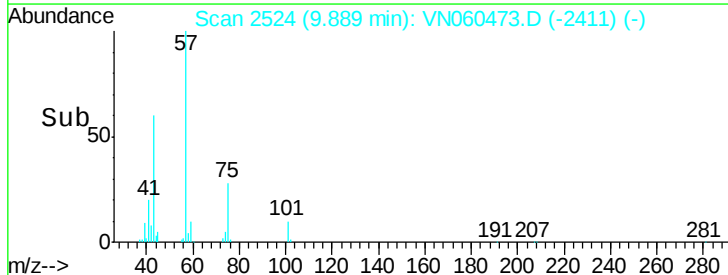
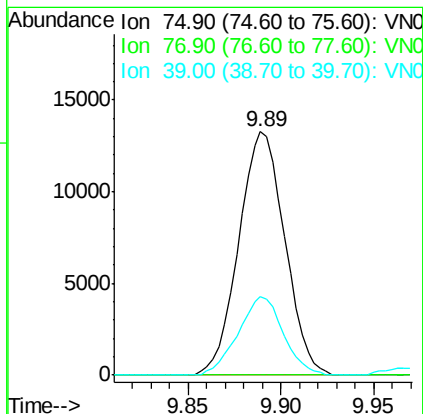
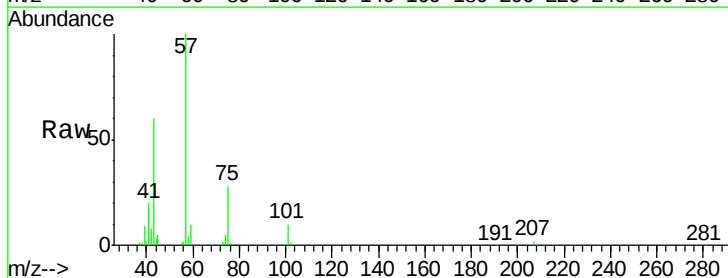
Instrument :
 MSVOA_N
 ClientSampled :
 CL-TP

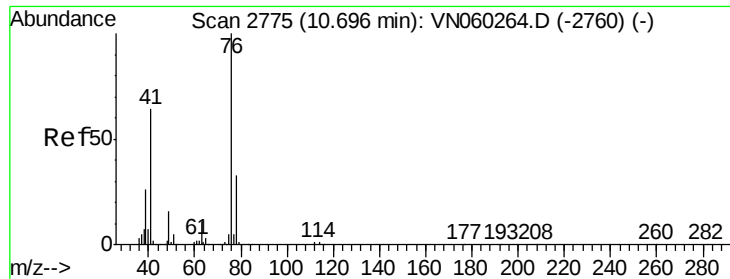
Tgt Ion: 43 Resp: 4357
 Ion Ratio Lower Upper
 43 100
 58 33.9 30.9 46.3



#54
 cis-1,3-Dichloropropene
 Concen: 5.64 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060473.D
 Acq: 12 Mar 2020 12:55

Tgt Ion: 75 Resp: 22752
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 32.1 43.8 65.8#

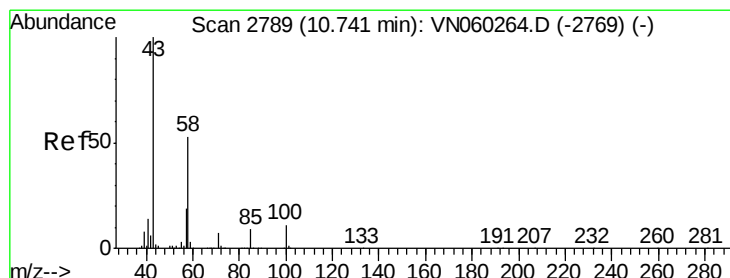
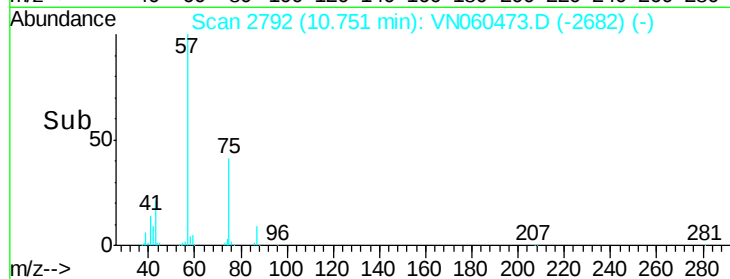
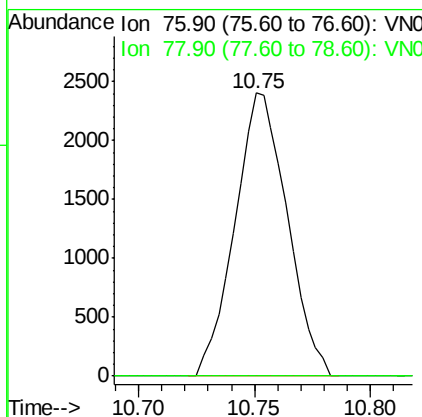
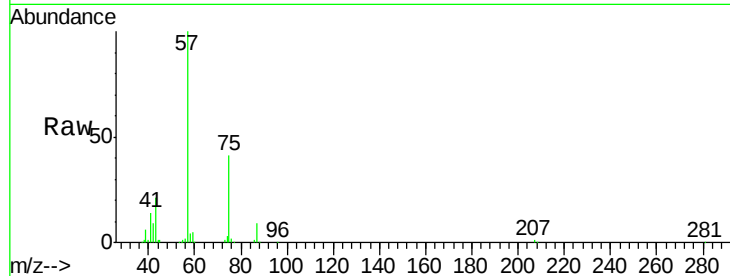




#57
 1,3-Dichloropropane
 Concen: 0.99 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN060473.D
 Acq: 12 Mar 2020 12:55

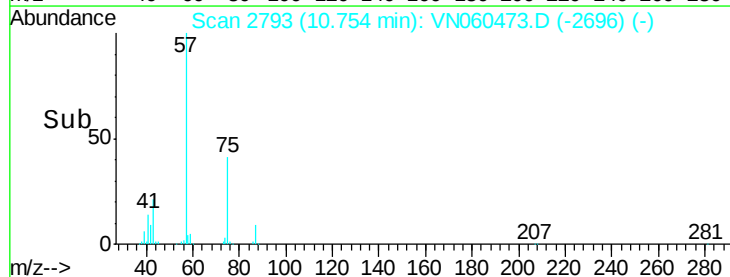
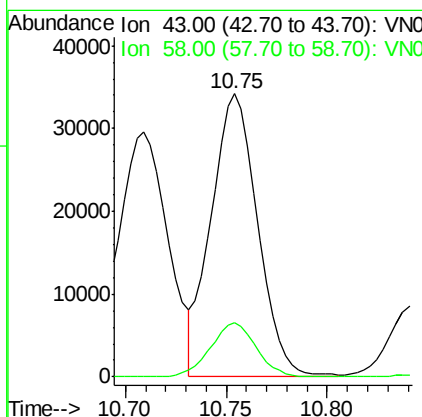
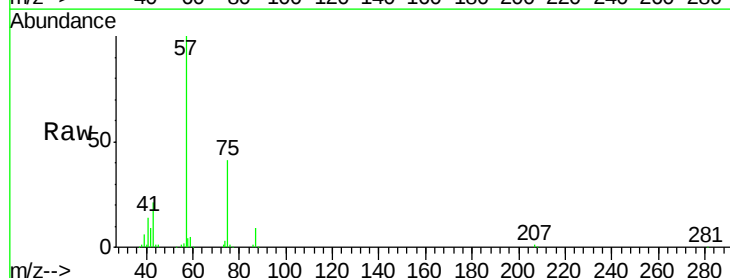
Instrument :
 MSVOA_N
 ClientSampled :
 CL-TP

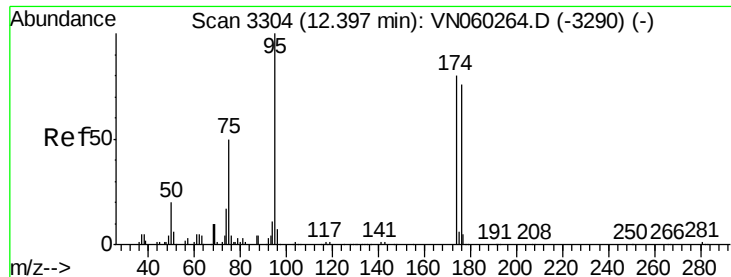
Tgt Ion: 76 Resp: 3757
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.2#



#59
 2-Hexanone
 Concen: 24.96 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN060473.D
 Acq: 12 Mar 2020 12:55

Tgt Ion: 43 Resp: 54488
 Ion Ratio Lower Upper
 43 100
 58 18.8 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 51.74 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

CL-TP

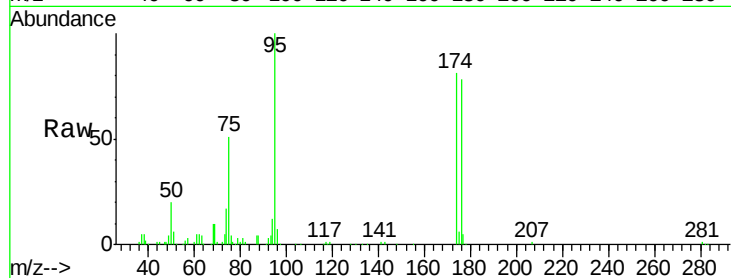
Tgt Ion: 95 Resp: 152961

Ion Ratio Lower Upper

95 100

174 80.0 0.0 159.2

176 76.3 0.0 153.8

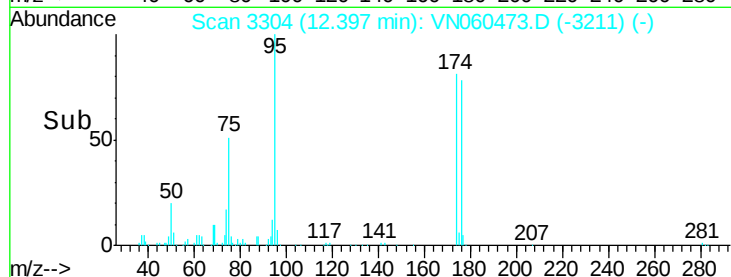


Abundance Ion 94.90 (94.60 to 95.60): VN060473.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060473.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060473.D (-3211) (-)

Time--> 12.30 12.35 12.40 12.45

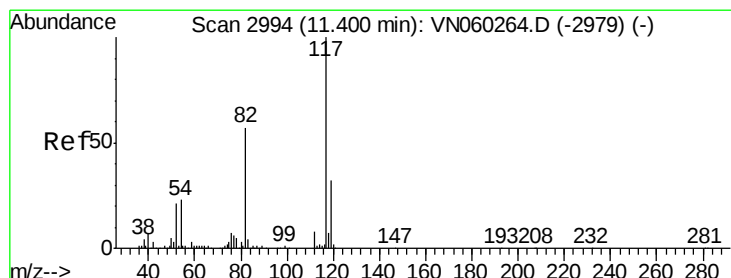


Abundance Ion 94.90 (94.60 to 95.60): VN060473.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060473.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060473.D (-3211) (-)

Time--> 12.30 12.35 12.40 12.45



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

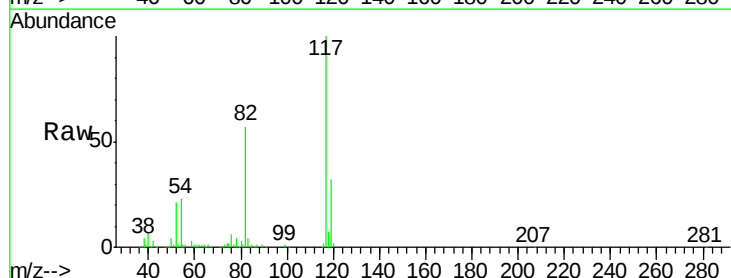
Tgt Ion: 117 Resp: 311330

Ion Ratio Lower Upper

117 100

82 57.4 45.8 68.6

119 32.1 25.8 38.8

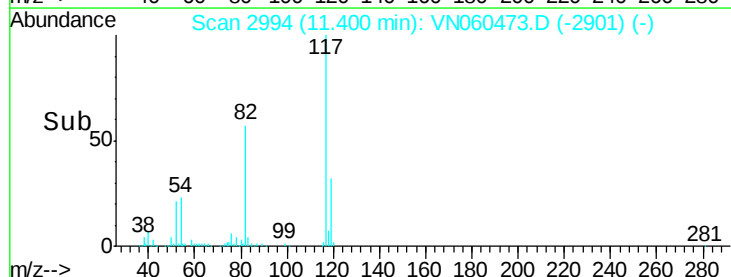


Abundance Ion 116.90 (116.60 to 117.60): VN060473.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060473.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060473.D (-2901) (-)

Time--> 11.30 11.40 11.50

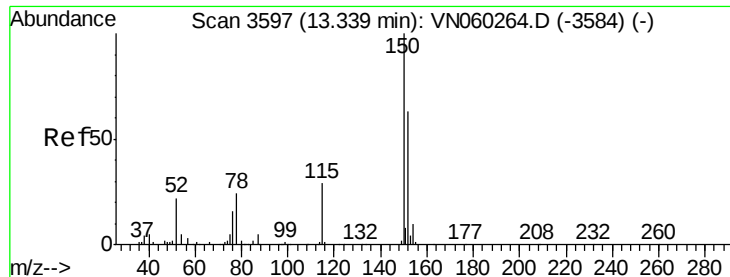


Abundance Ion 116.90 (116.60 to 117.60): VN060473.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060473.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060473.D (-2901) (-)

Time--> 11.30 11.40 11.50



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

CL-TP

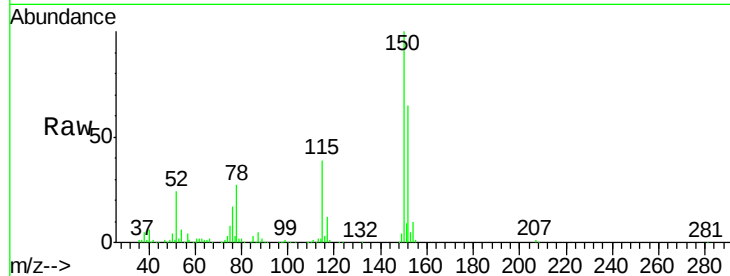
Tgt Ion: 152 Resp: 144622

Ion Ratio Lower Upper

152 100

115 60.1 30.0 90.0

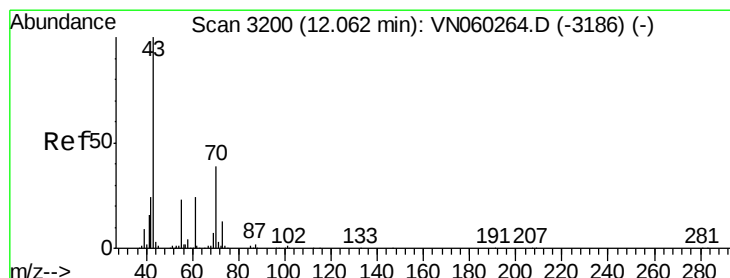
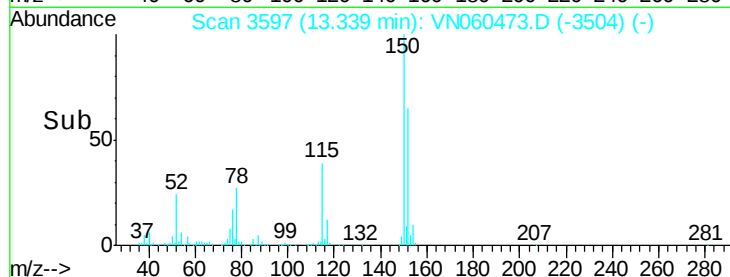
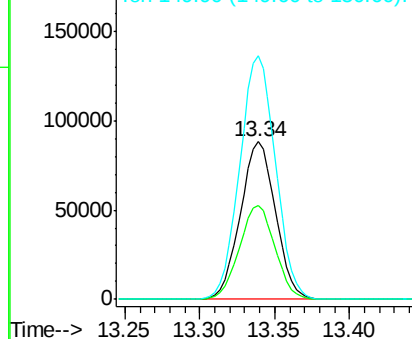
150 156.9 0.0 349.6



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: 0.62 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

Tgt Ion: 43 Resp: 2907

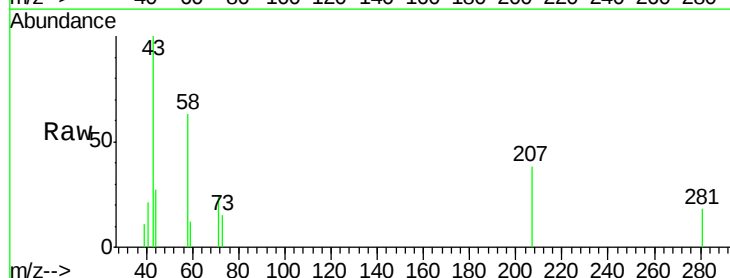
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

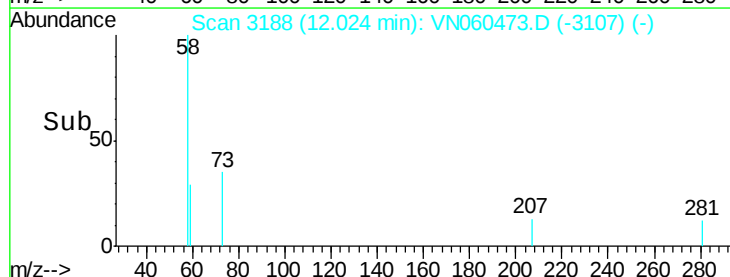
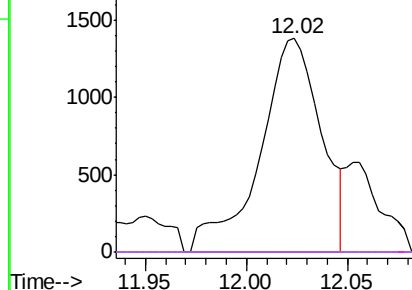


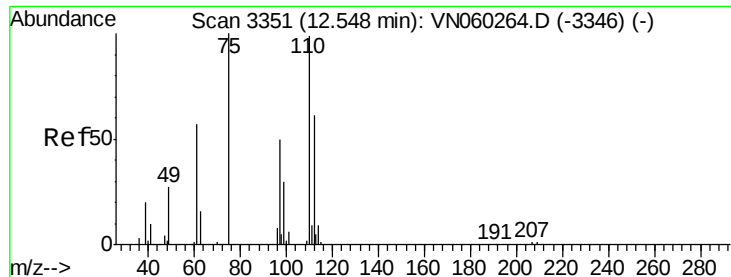
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 24.75 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

Instrument :

MSVOA_N

ClientSampleId :

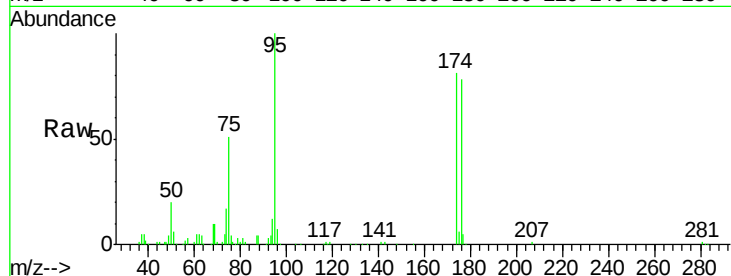
CL-TP

Tgt Ion: 75 Resp: 78525

Ion Ratio Lower Upper

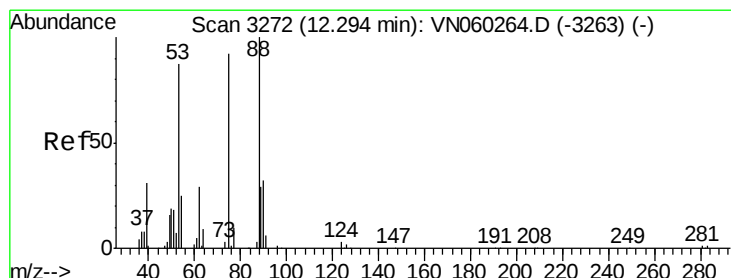
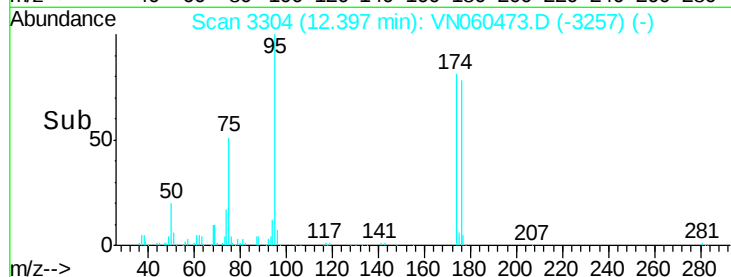
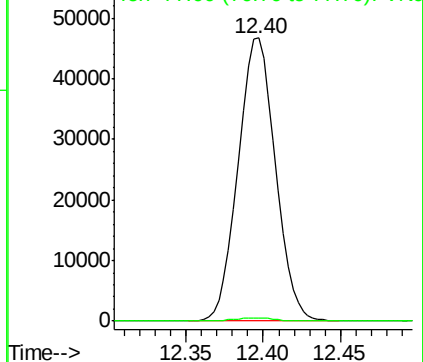
75 100

77 1.1 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: 68.32 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060473.D

Acq: 12 Mar 2020 12:55

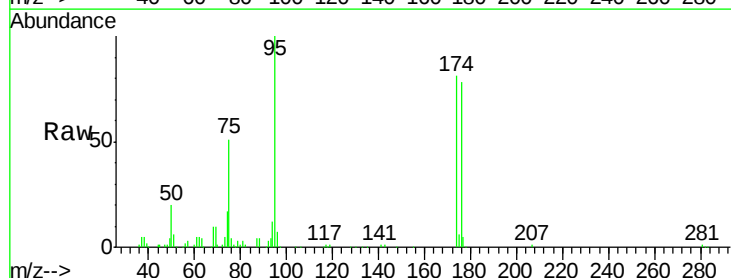
Tgt Ion: 75 Resp: 78525

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

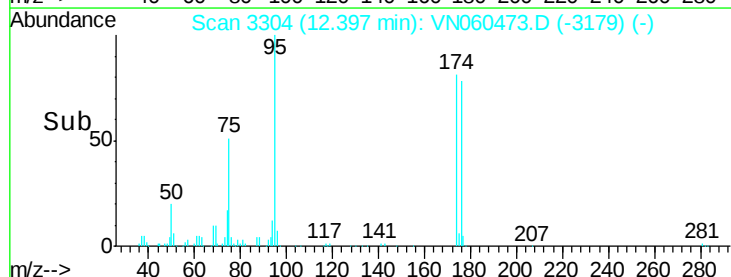
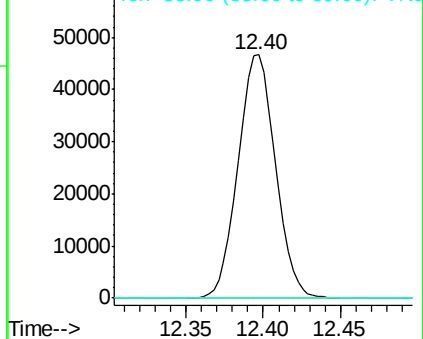
89 0.0 57.1 85.7#

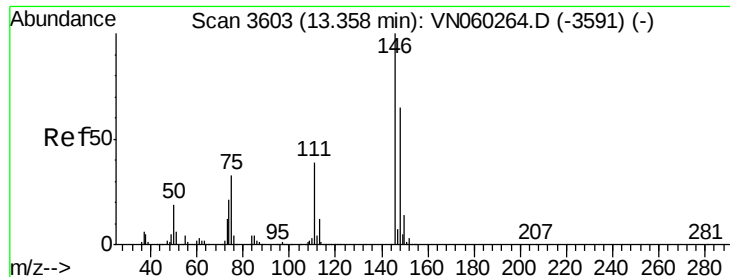


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

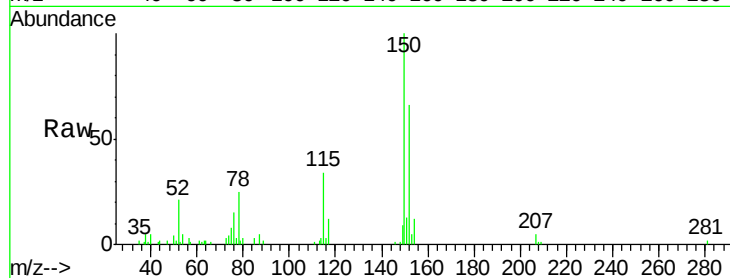




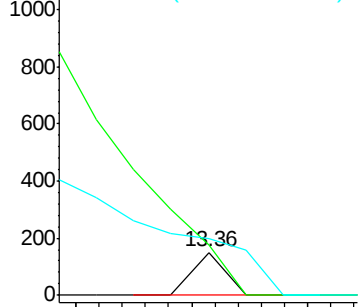
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3604
 Delta R.T. 0.00 min
 Lab File: VN060473.D
 Acq: 12 Mar 2020 12:55

Instrument :
 MSVOA_N
 ClientSampled :
 CL-TP

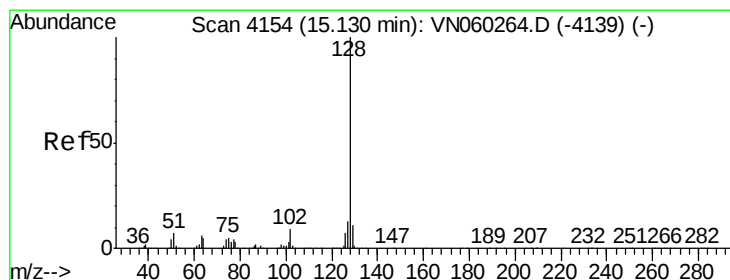
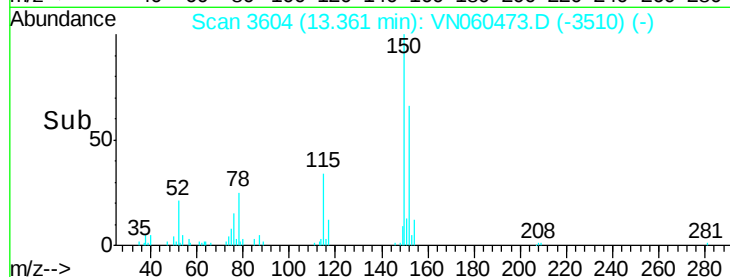
Tgt Ion:146 Resp: 29
 Ion Ratio Lower Upper
 146 100
 111 6989.7 19.8 59.4#
 148 2206.9 32.3 96.9#



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

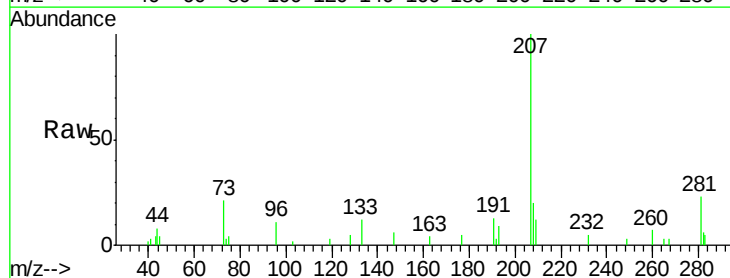


Time--> 13.35 13.36 13.37

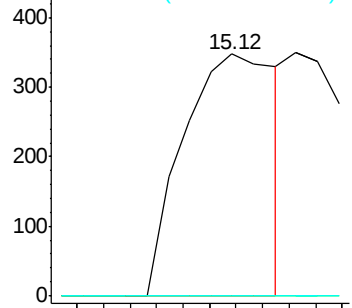


#95
 Naphthalene
 Concen: Below Cal
 RT: 15.12 min Scan# 4152
 Delta R.T. -0.01 min
 Lab File: VN060473.D
 Acq: 12 Mar 2020 12:55

Tgt Ion:128 Resp: 339
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.6 13.0#



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



Time--> 15.10 15.12

