

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031320\
 Data File : VN060511.D
 Acq On : 13 Mar 2020 18:28
 Operator : JC/MD
 Sample : L1907-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 16 04:31:35 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	201041	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	333177	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	316626	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149715	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	131470	50.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.94%	
35) Dibromofluoromethane	7.57	113	99370	64.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.50%	
50) Toluene-d8	10.08	98	409501	52.32	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.64%	
62) 4-Bromofluorobenzene	12.40	95	156609	52.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.56%	

Target Compounds

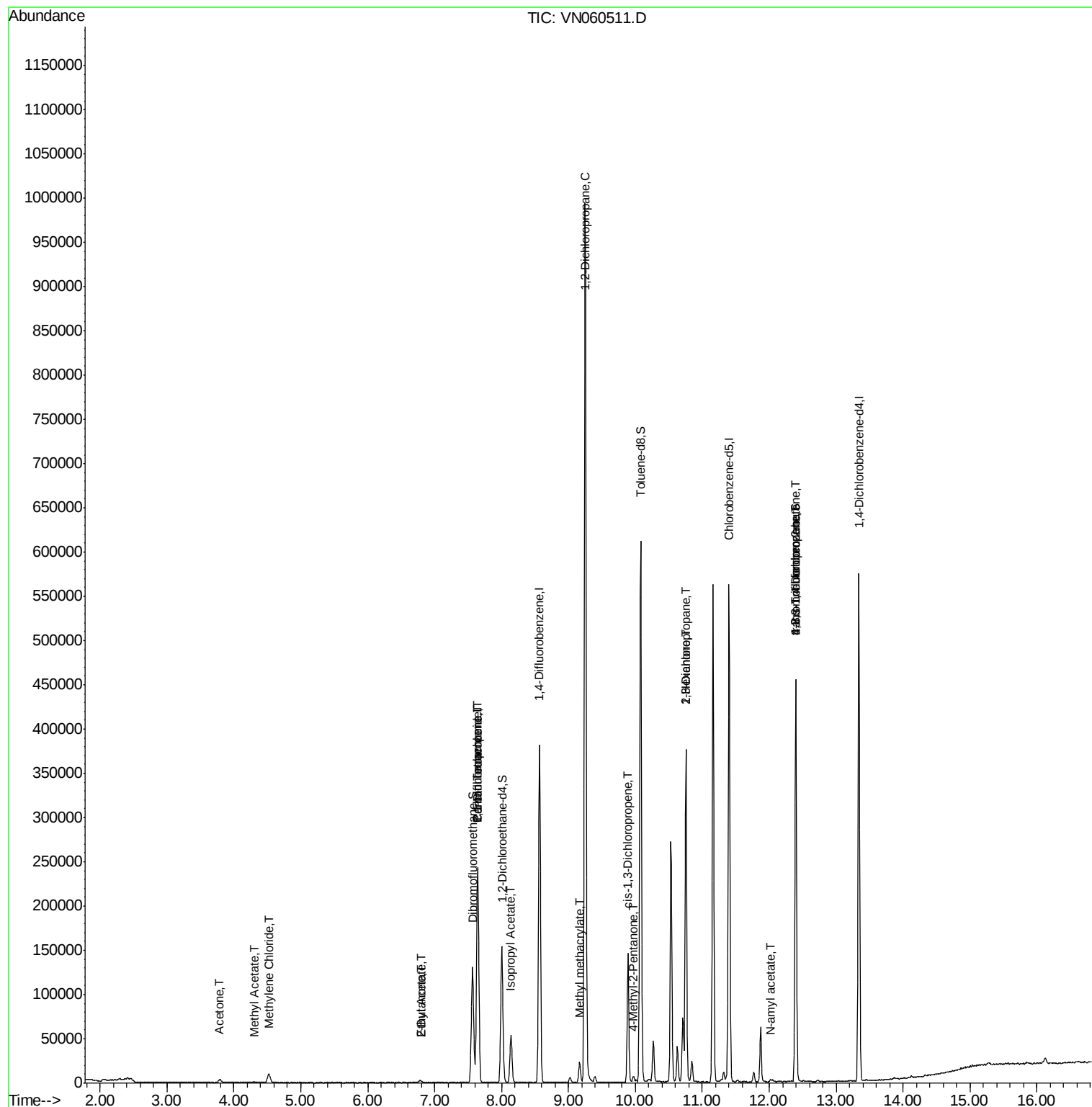
					Qvalue	
16) Acetone	3.79	43	7636	9.167	ug/l	96
18) Methyl Acetate	4.30	43	1537	0.553	ug/l #	52
20) Methylene Chloride	4.53	84	7587	3.317	ug/l	97
25) 2-Butanone	6.81	43	1288	0.957	ug/l #	49
31) Cyclohexane	7.64	56	4383	Below Cal	#	14
36) 1,1-Dichloropropene	7.64	75	15498	4.881	ug/l #	49
37) Ethyl Acetate	6.81	43	1288	0.428	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19109	6.181	ug/l #	16
43) Isopropyl Acetate	8.14	43	64118	12.181	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1095	0.453	ug/l #	44
48) Methyl methacrylate	9.16	41	3255	1.356	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4995	1.674	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	26426	6.527	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3739	0.982	ug/l #	42
59) 2-Hexanone	10.75	43	57274	26.138	ug/l #	52
74) N-amyl acetate	12.02	43	2790	0.575	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	79760	24.282	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	79760	67.029	ug/l #	8
95) Naphthalene	15.14	128	143	Below Cal	#	69

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

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Quant Title : SW846 8260
QLast Update : Thu Feb 27 13:52:50 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

Instrument :

MSVOA_N

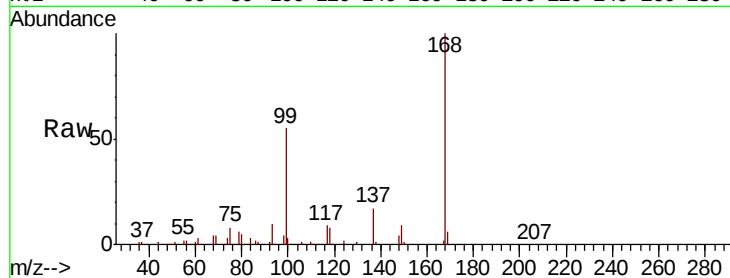
ClientSampled :

Tot Ion:168 Resp: 201041

Ion Ratio Lower Upper

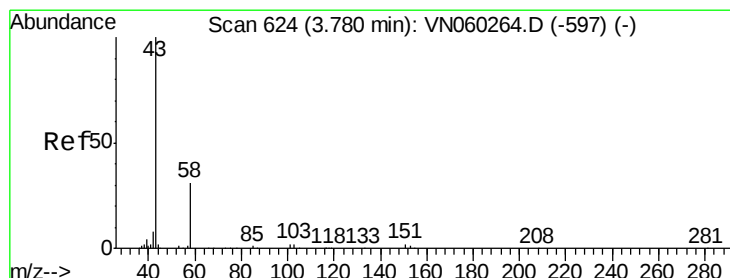
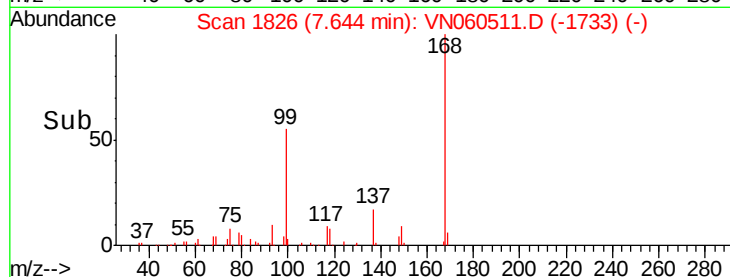
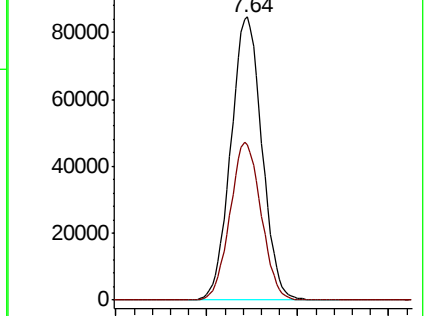
168 100

99 55.1 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 9.167 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060511.D

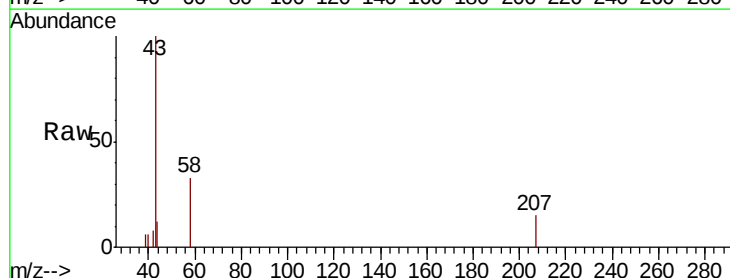
Acq: 13 Mar 2020 18:28

Tgt Ion: 43 Resp: 7636

Ion Ratio Lower Upper

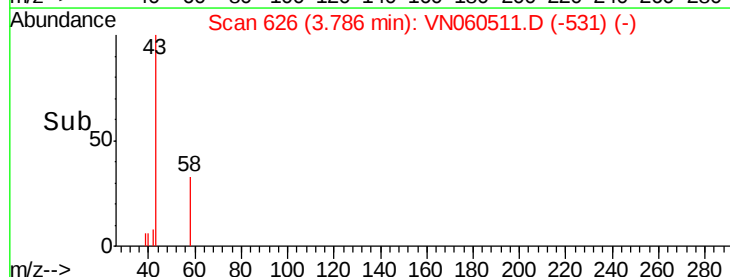
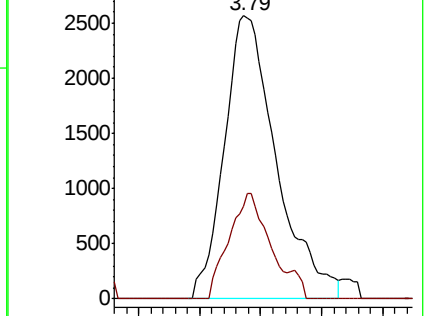
43 100

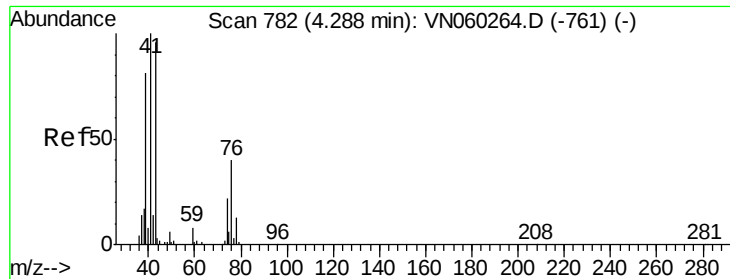
58 32.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

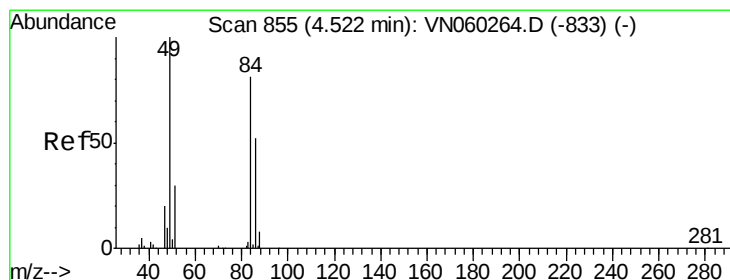
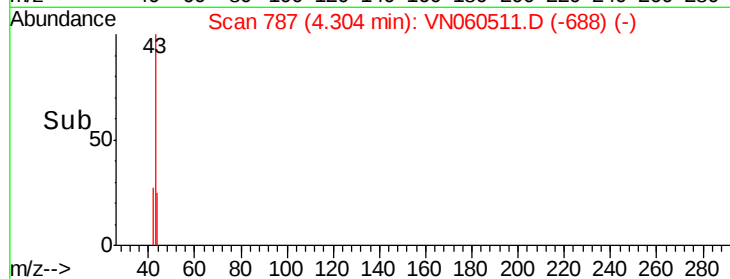
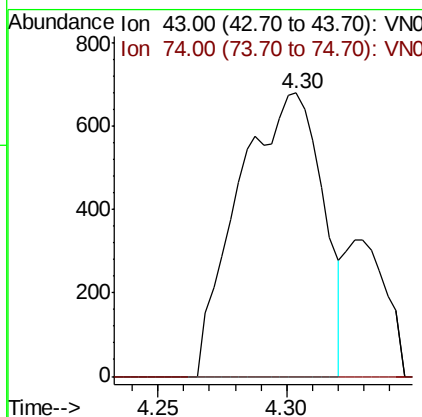
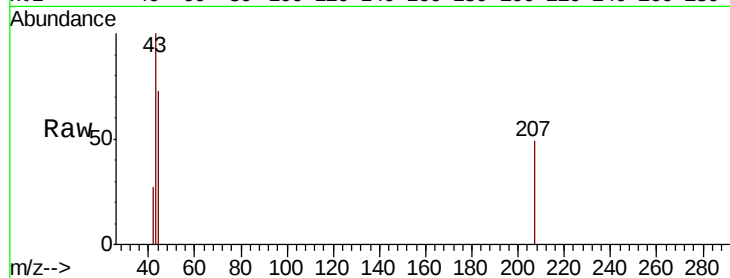




#18
Methvl Acetate
Concen: 0.553 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.02 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

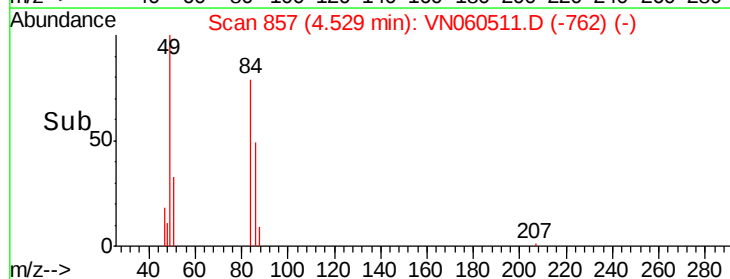
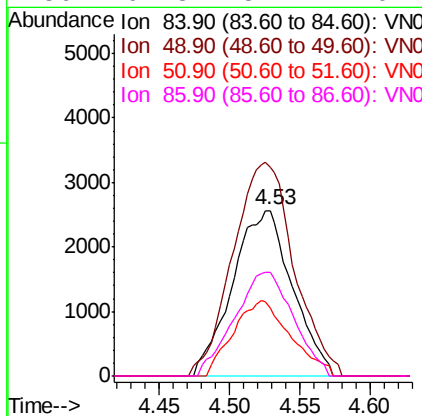
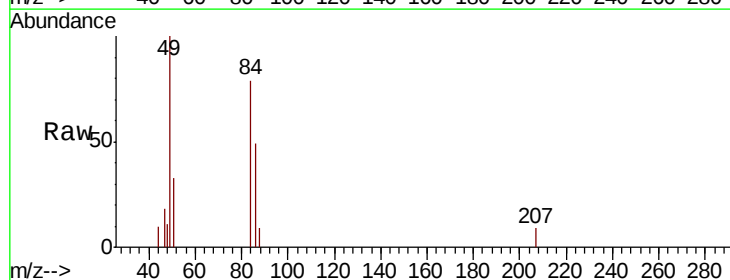
Instrument :
MSVOA_N
ClientSampleId :

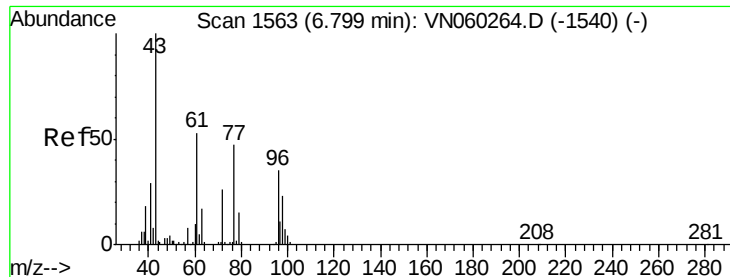
Tot Ion: 43 Resp: 1537
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 3.317 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.01 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

Tgt Ion: 84 Resp: 7587
Ion Ratio Lower Upper
84 100
49 126.3 99.3 148.9
51 41.2 30.1 45.1
86 62.3 51.1 76.7

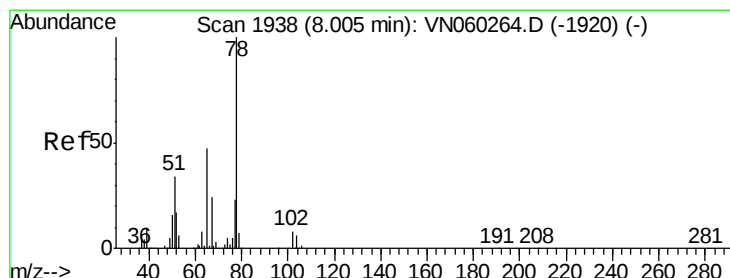
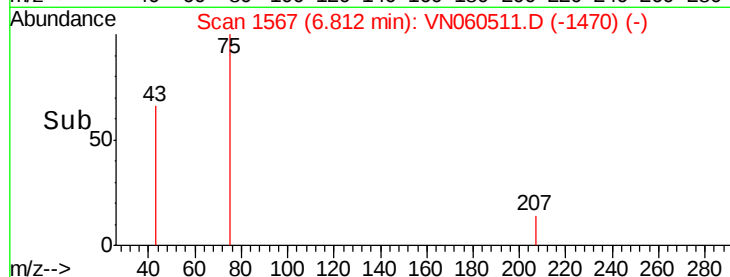
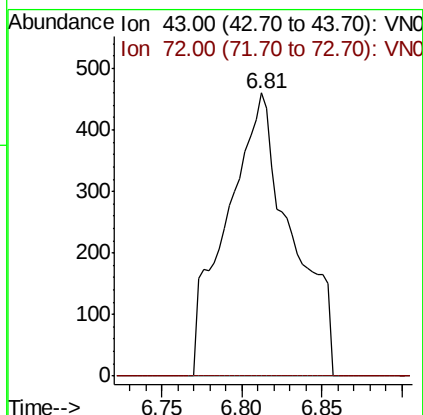
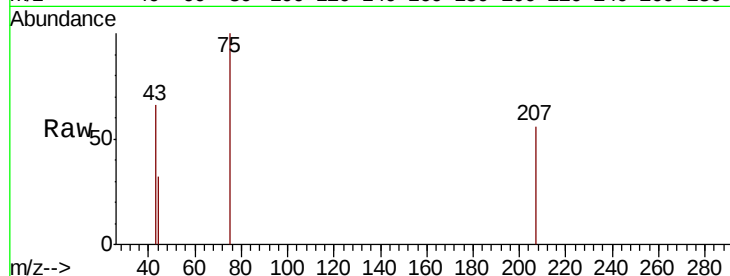




#25
2-Butanone
Concen: 0.957 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.01 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

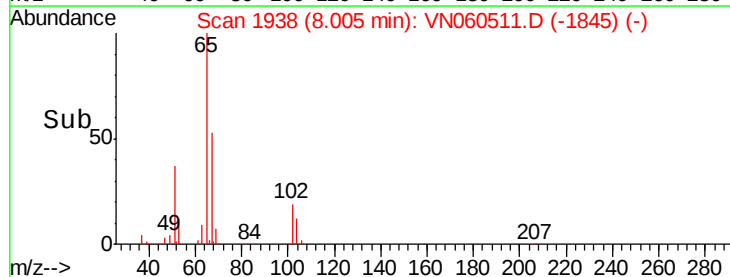
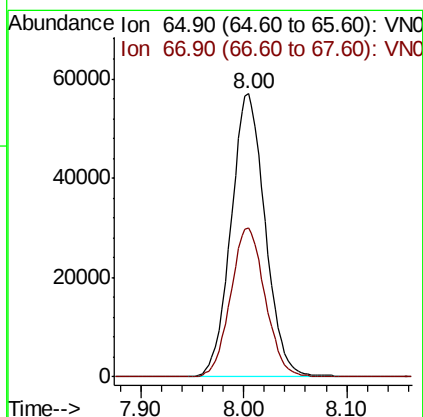
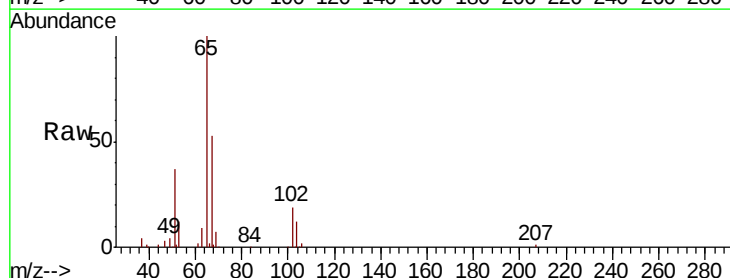
Instrument :
MSVOA_N
ClientSampled :

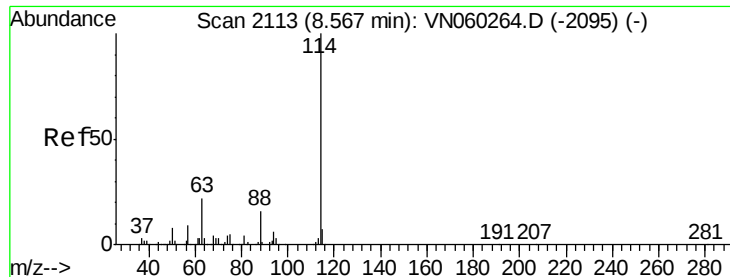
Tot Ion: 43 Resp: 1288
Ion Ratio Lower Upper
43 100
72 0.0 20.9 31.3#



#33
1,2-Dichloroethane-d4
Concen: 50.970 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

Tgt Ion: 65 Resp: 131470
Ion Ratio Lower Upper
65 100
67 53.1 0.0 103.8

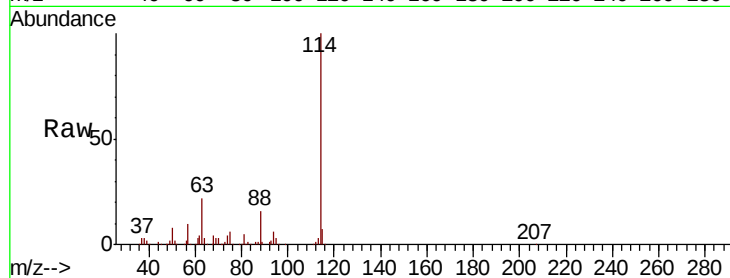




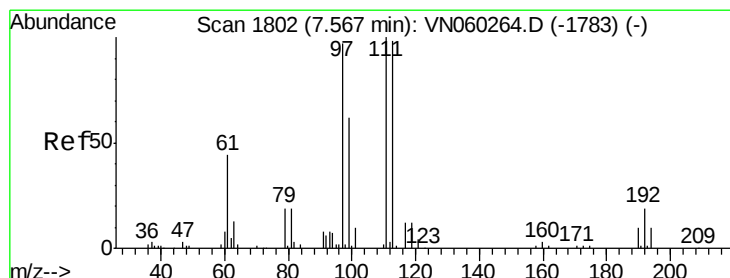
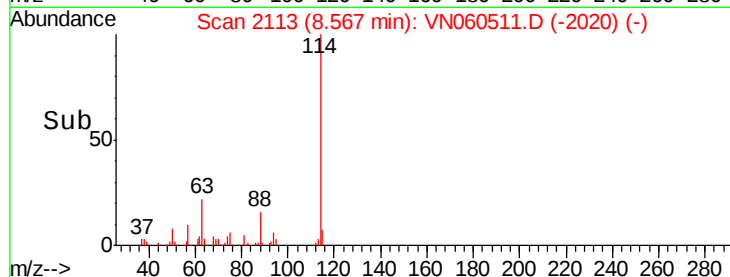
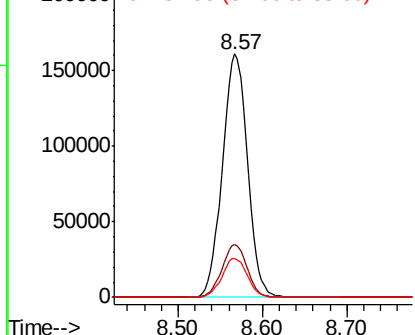
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	43.2
88	16.0	0.0	31.6

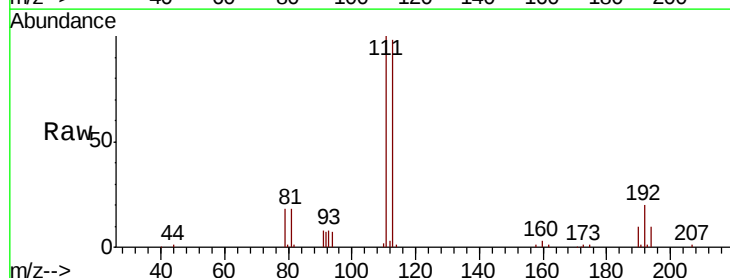


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

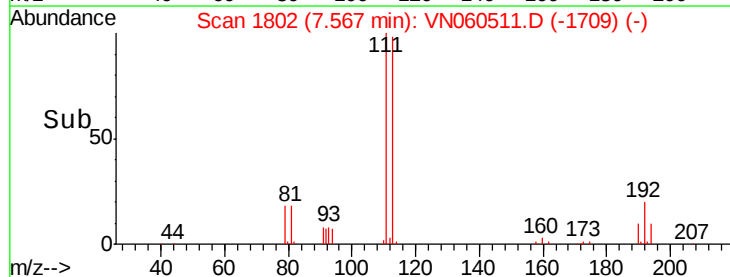
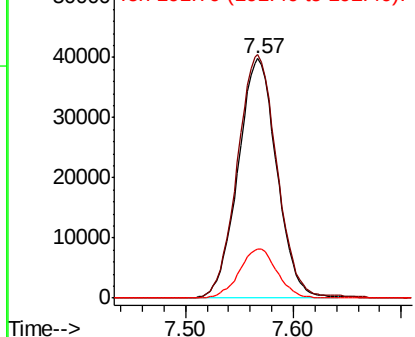


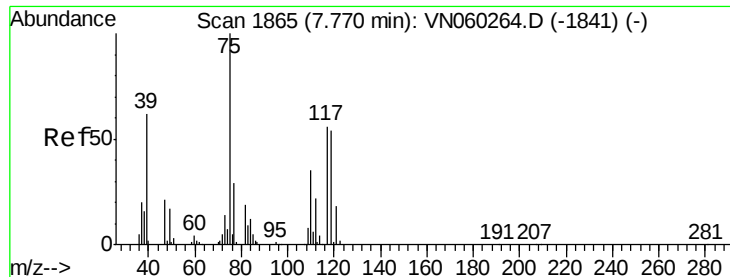
#35
Dibromofluoromethane
Concen: 64.255 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

Tgt Ion	Ratio	Lower	Upper
113	100		
111	104.3	82.4	123.6
192	19.9	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: 4.881 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

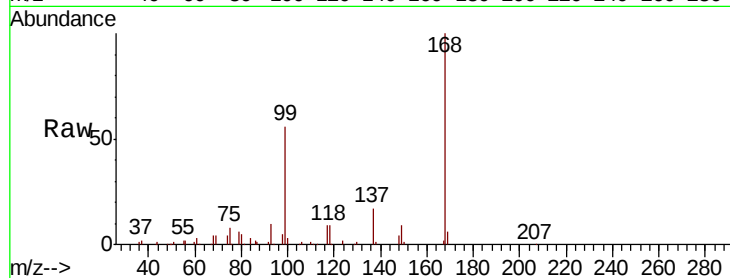
Tot Ion: 75 Resp: 15498

Ion Ratio Lower Upper

75 100

110 7.4 17.3 52.0#

77 0.0 24.2 36.2#

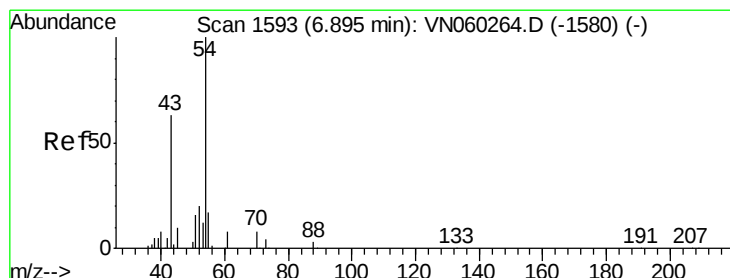
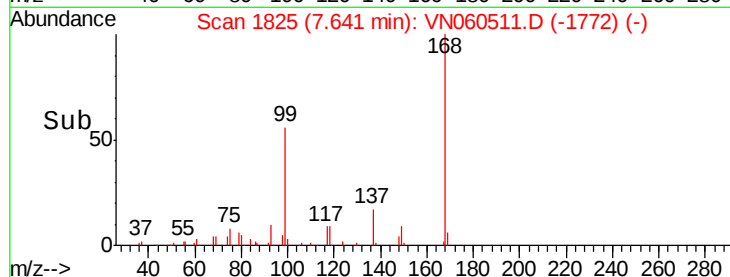


Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-1841) (-)

Ion 109.90 (109.60 to 110.60): VN060264.D (-1841) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-1841) (-)

Time-->



#37

Ethyl Acetate

Concen: 0.428 ug/l

RT: 6.81 min Scan# 1567

Delta R.T. -0.08 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

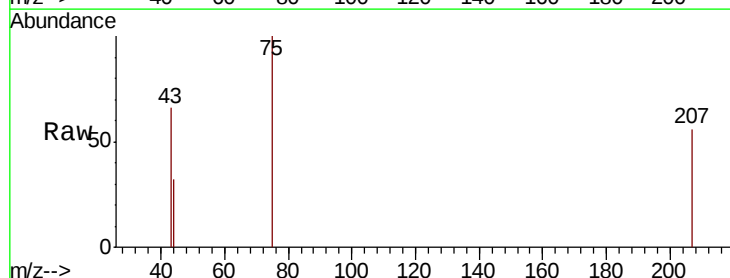
Tgt Ion: 43 Resp: 1288

Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#

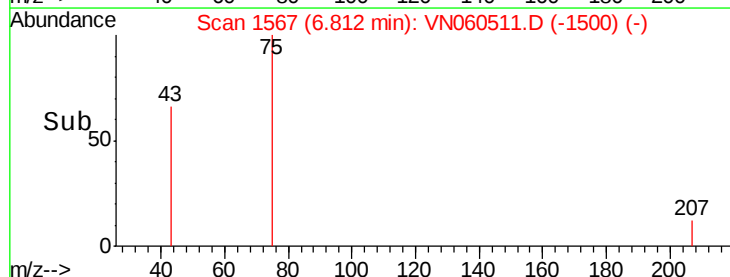


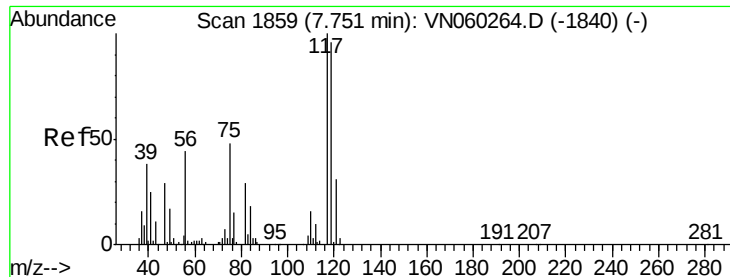
Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1580) (-)

Ion 60.90 (60.60 to 61.60): VN060264.D (-1580) (-)

Ion 70.00 (69.70 to 70.70): VN060264.D (-1580) (-)

Time-->

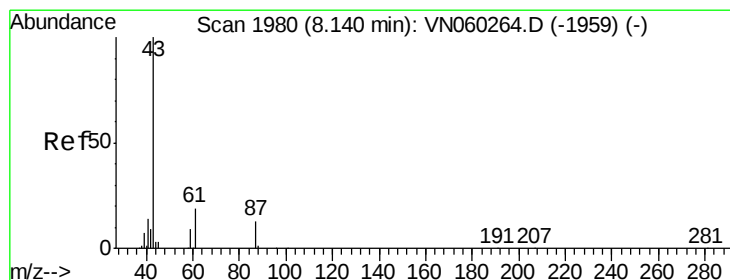
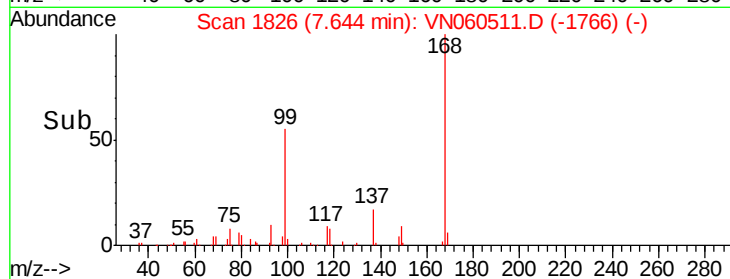
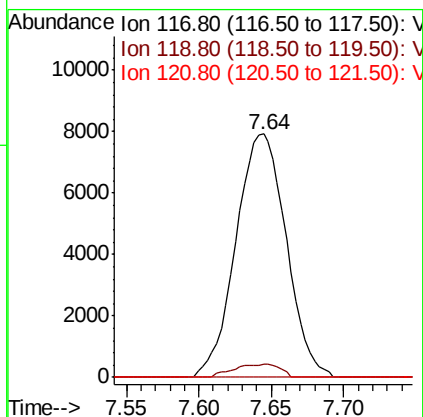
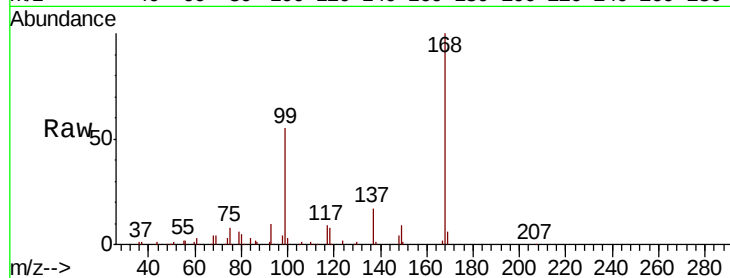




#38
Carbon Tetrachloride
Concen: 6.181 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

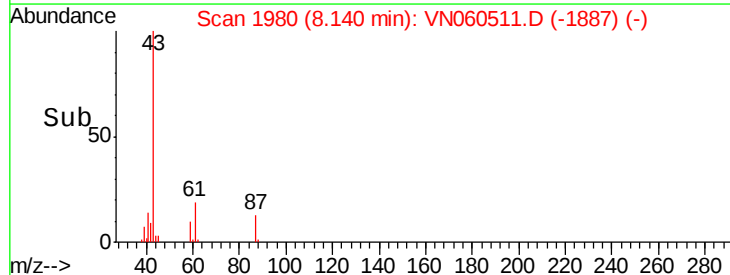
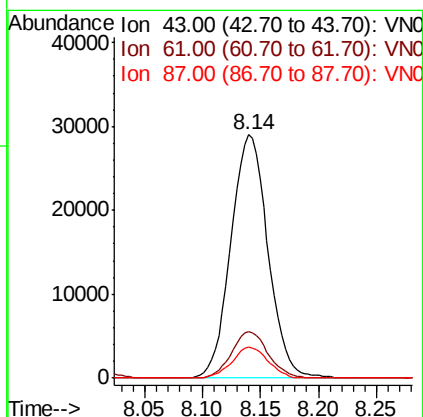
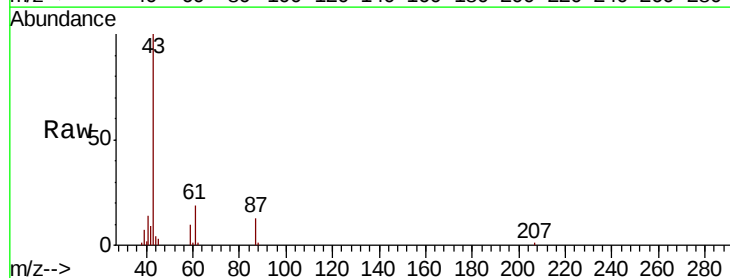
Instrument :
MSVOA_N
ClientSampled :

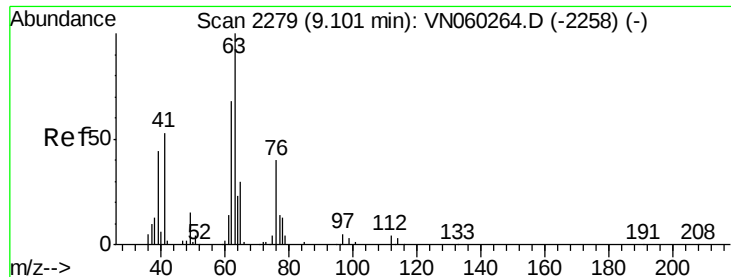
Tot Ion:117 Resp: 19109
Ion Ratio Lower Upper
117 100
119 5.2 76.7 115.1#
121 0.0 24.5 36.7#



#43
Isopropyl Acetate
Concen: 12.181 ug/l
RT: 8.14 min Scan# 1980
Delta R.T. 0.00 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

Tgt Ion: 43 Resp: 64118
Ion Ratio Lower Upper
43 100
61 18.8 20.9 31.3#
87 12.3 10.6 16.0





#45

1,2-Dichloropropane

Concen: 0.453 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

Instrument :

MSVOA_N

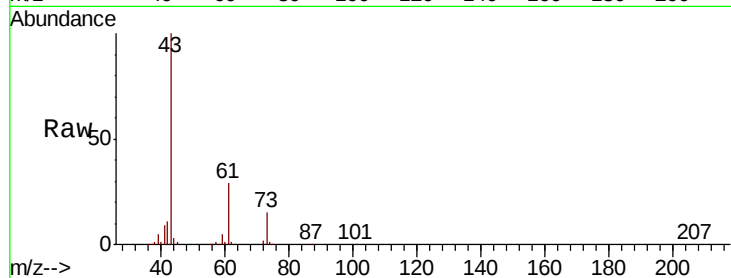
ClientSampleId :

Tot Ion: 63 Resp: 1095

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060511.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060511.D (-2186) (-)

9.25

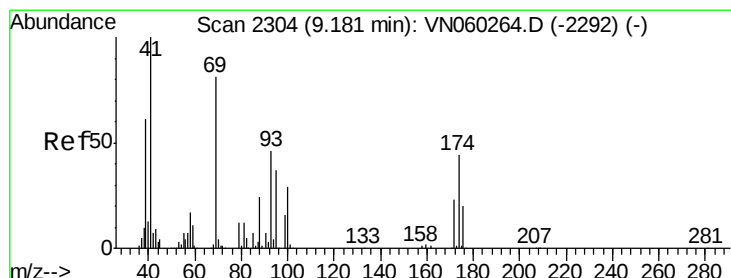
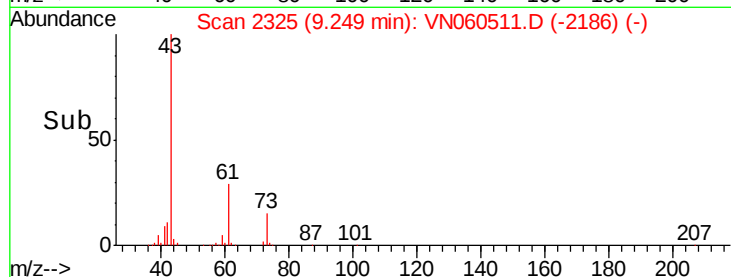
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 1.356 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

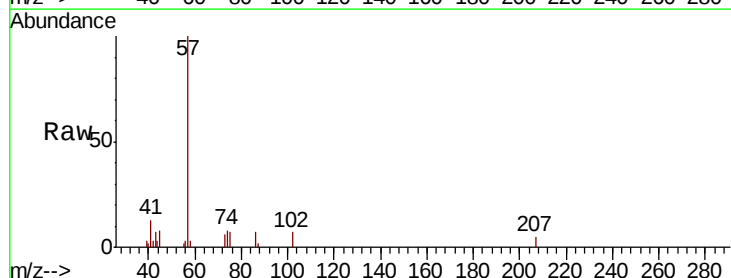
Tgt Ion: 41 Resp: 3255

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



Abundance Ion 41.00 (40.70 to 41.70): VN060511.D (-2211) (-)

Ion 69.00 (68.70 to 69.70): VN060511.D (-2211) (-)

Ion 39.00 (38.70 to 39.70): VN060511.D (-2211) (-)

50000

40000

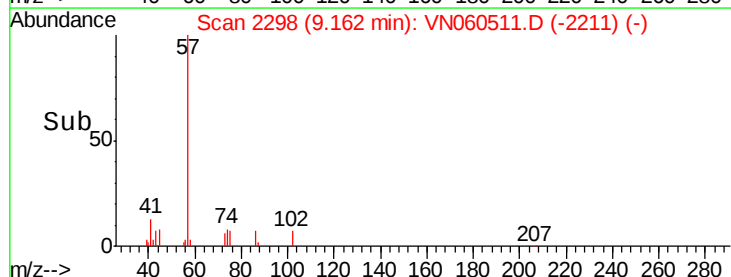
30000

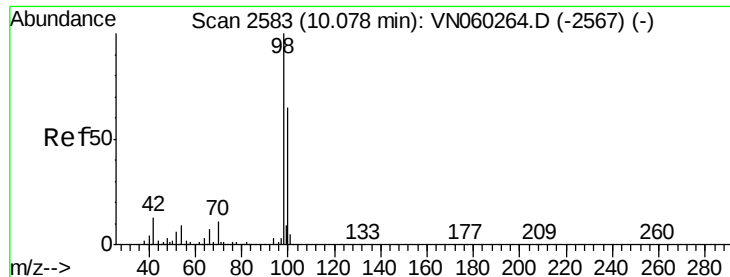
20000

10000

0

Time-->

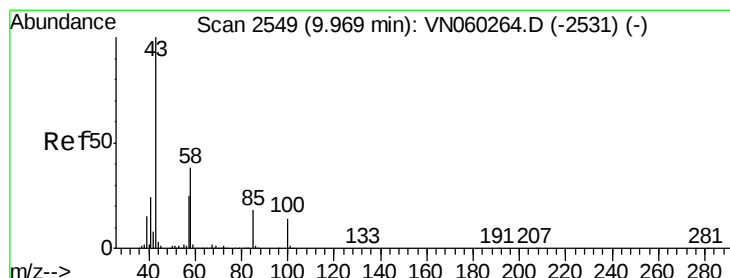
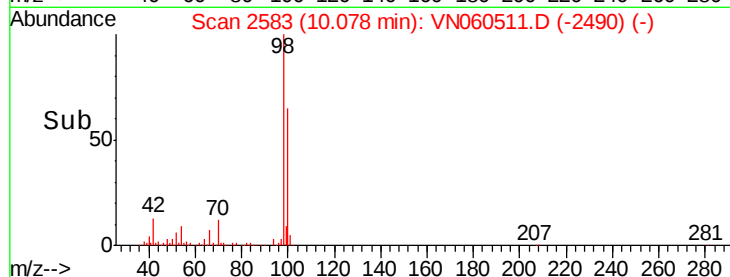
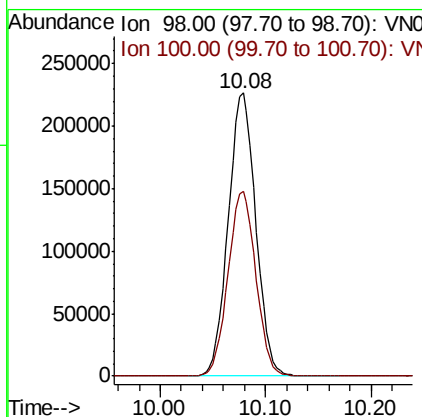
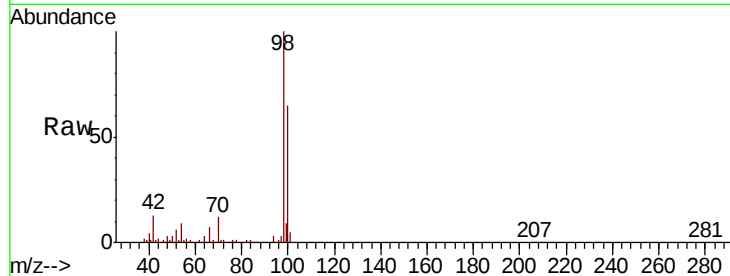




#50
Toluene-d8
Concen: 52.319 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

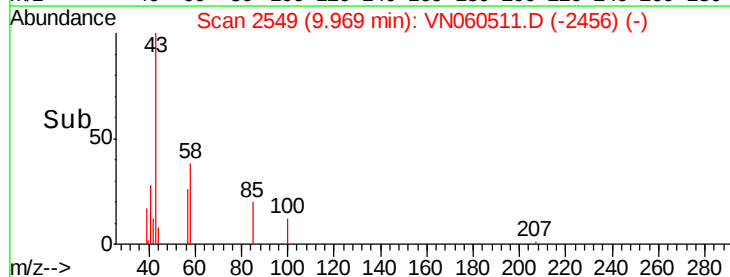
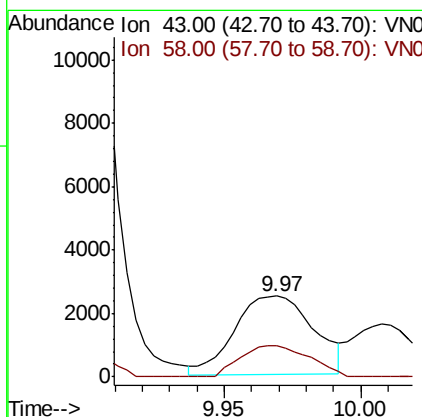
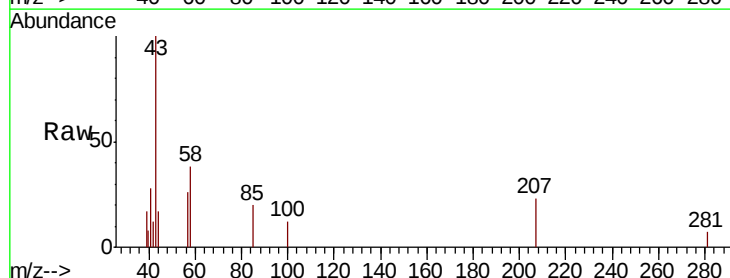
Instrument :
MSVOA_N
ClientSampled :

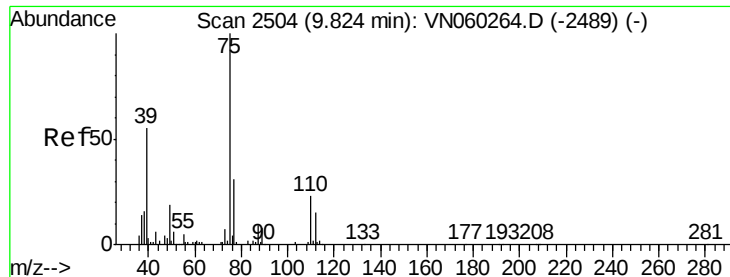
Tot Ion: 98 Resp: 409501
Ion Ratio Lower Upper
98 100
100 65.8 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 1.674 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

Tgt Ion: 43 Resp: 4995
Ion Ratio Lower Upper
43 100
58 35.1 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 6.527 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

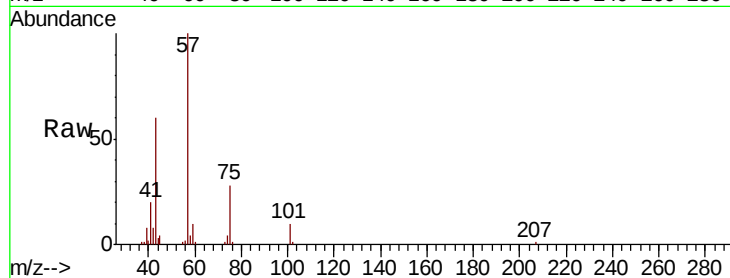
Tot Ion: 75 Resp: 26426

Ion Ratio Lower Upper

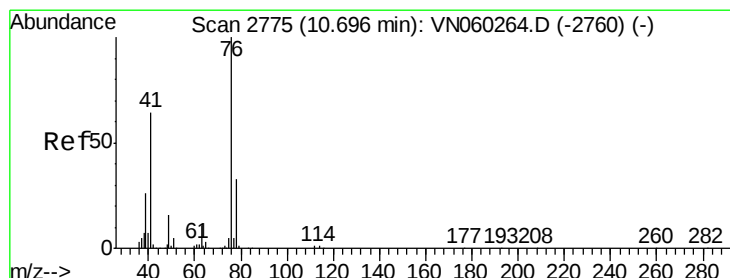
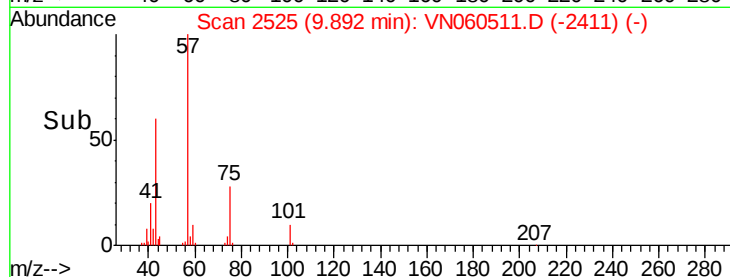
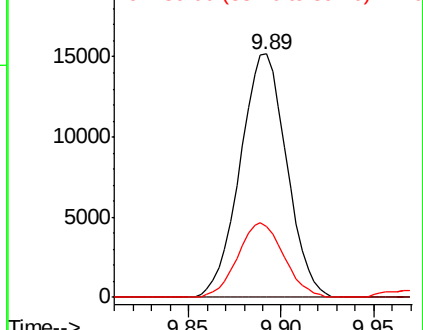
75 100

77 0.0 24.8 37.2#

39 29.0 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 76.90 (76.60 to 77.60): VN0
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.982 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060511.D

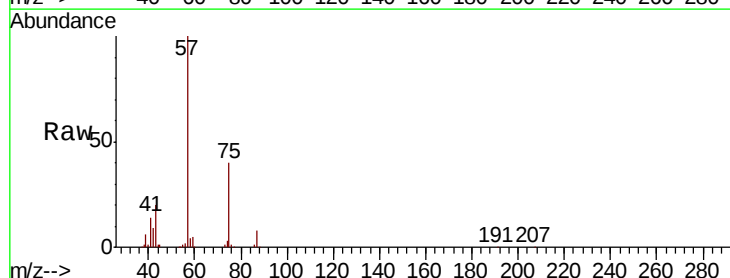
Acq: 13 Mar 2020 18:28

Tgt Ion: 76 Resp: 3739

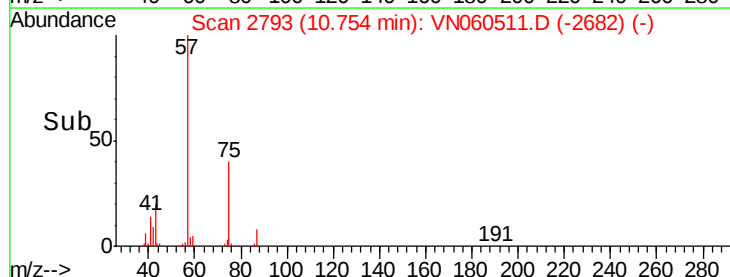
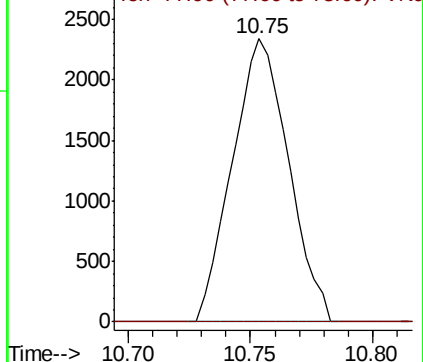
Ion Ratio Lower Upper

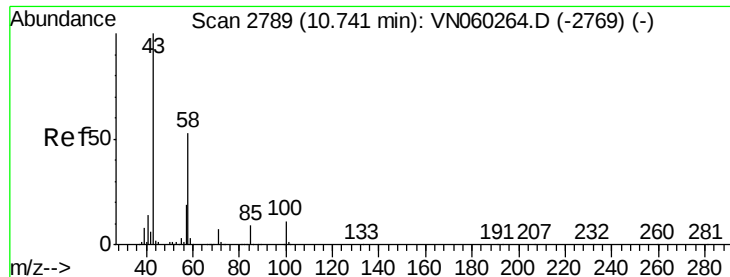
76 100

78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0
Ion 77.90 (77.60 to 78.60): VN0

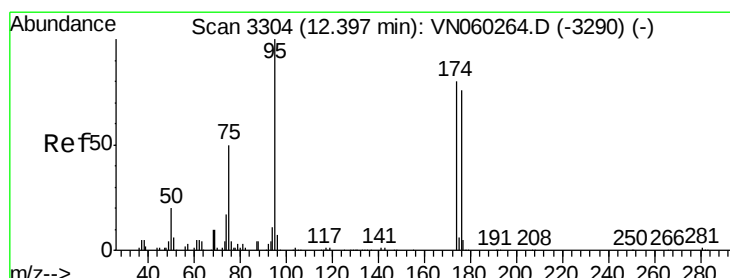
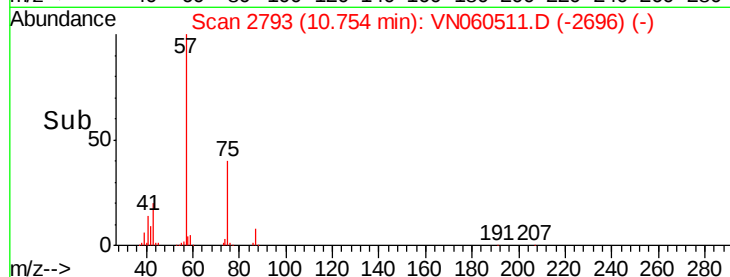
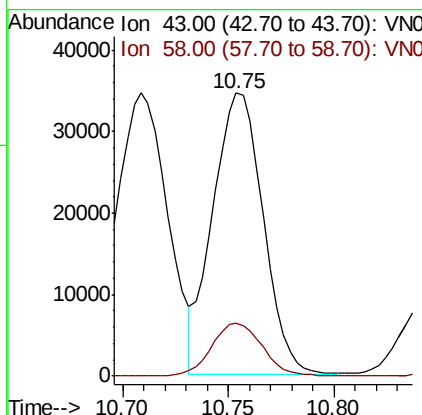
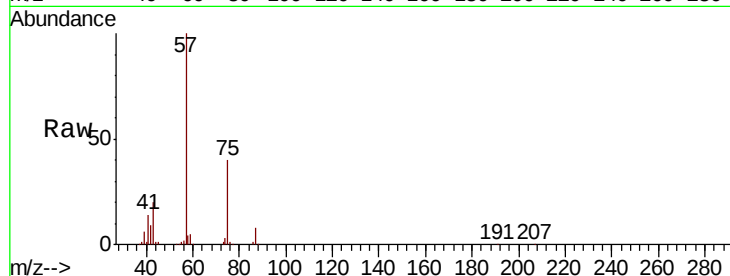




#59
2-Hexanone
Concen: 26.138 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

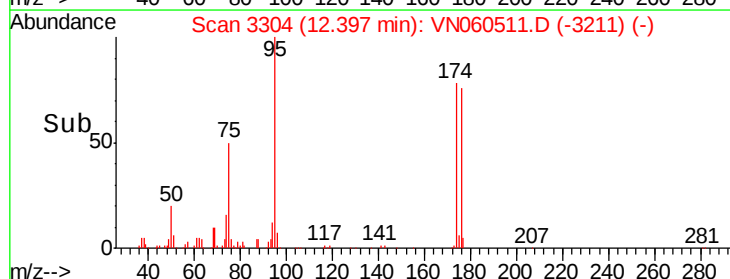
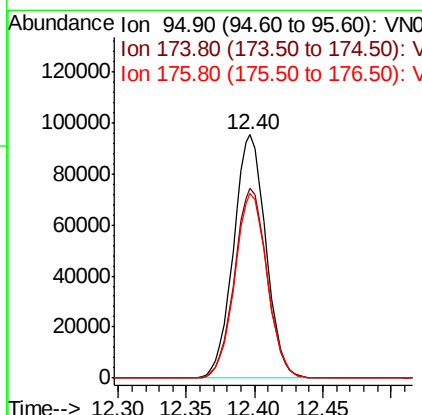
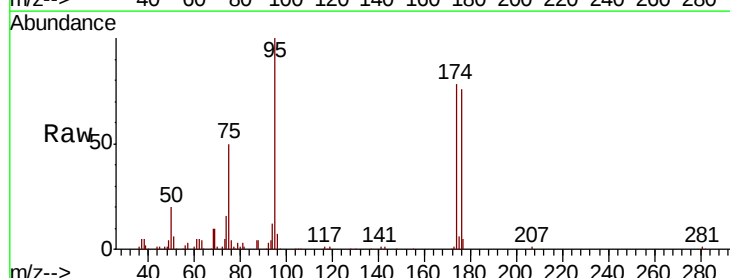
Instrument :
MSVOA_N
ClientSampled :

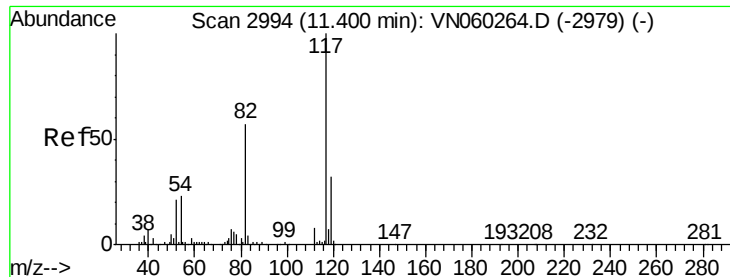
Tot Ion: 43 Resp: 57274
Ion Ratio Lower Upper
43 100
58 18.9 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.783 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060511.D
Acq: 13 Mar 2020 18:28

Tgt Ion: 95 Resp: 156609
Ion Ratio Lower Upper
95 100
174 78.3 0.0 159.2
176 76.3 0.0 153.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

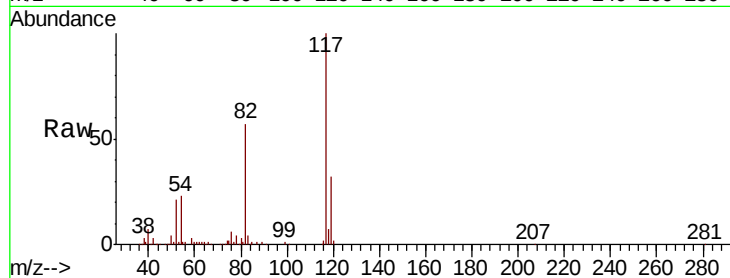
Tot Ion:117 Resp: 316626

Ion Ratio Lower Upper

117 100

82 56.9 45.8 68.6

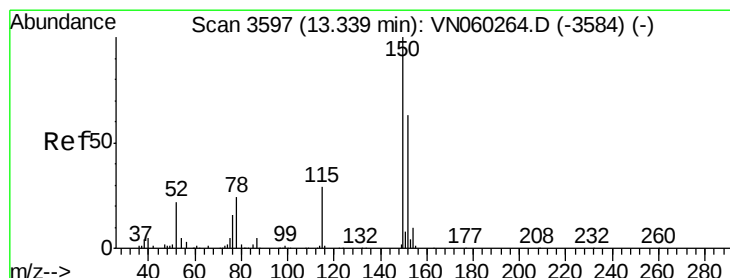
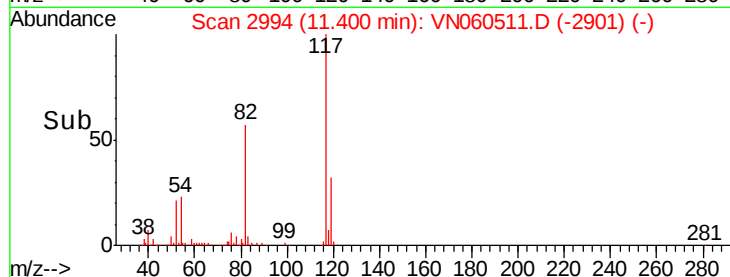
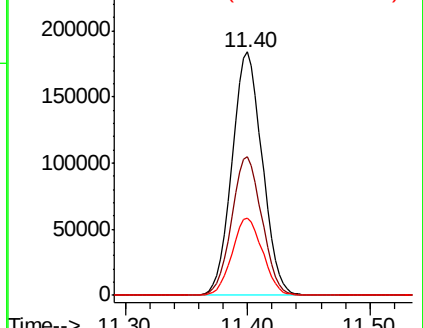
119 31.9 25.8 38.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

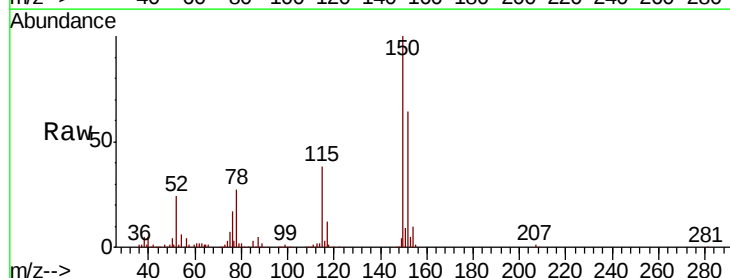
Tgt Ion:152 Resp: 149715

Ion Ratio Lower Upper

152 100

115 59.8 30.0 90.0

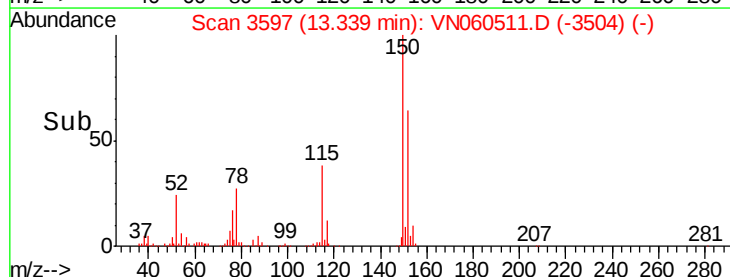
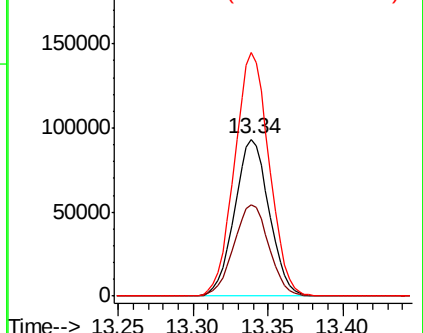
150 156.2 0.0 349.6

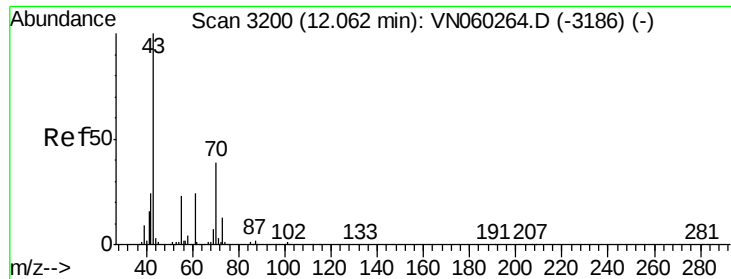


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.575 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2790

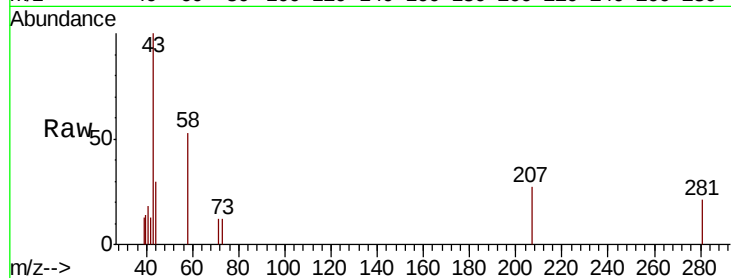
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

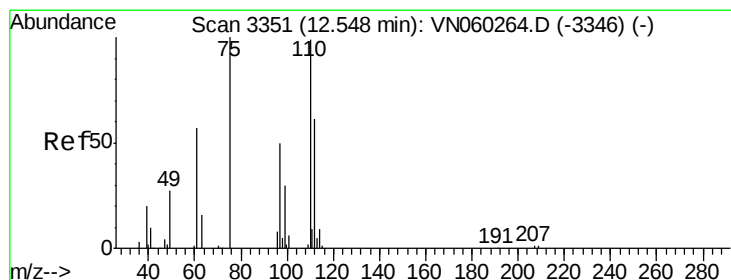
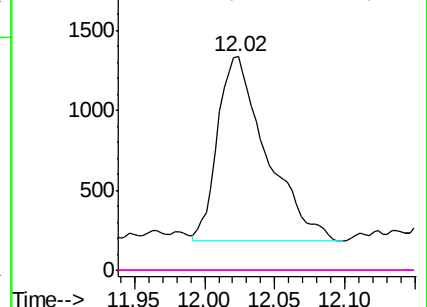
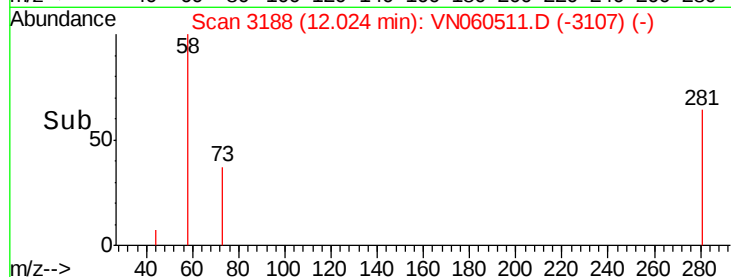


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 24.282 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060511.D

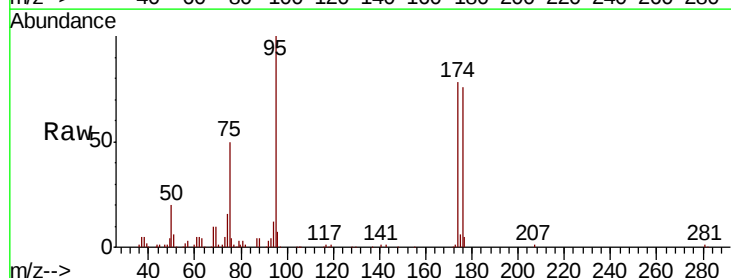
Acq: 13 Mar 2020 18:28

Tgt Ion: 75 Resp: 79760

Ion Ratio Lower Upper

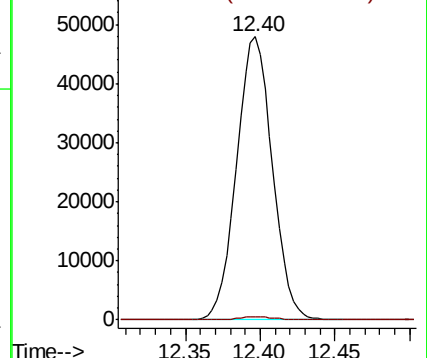
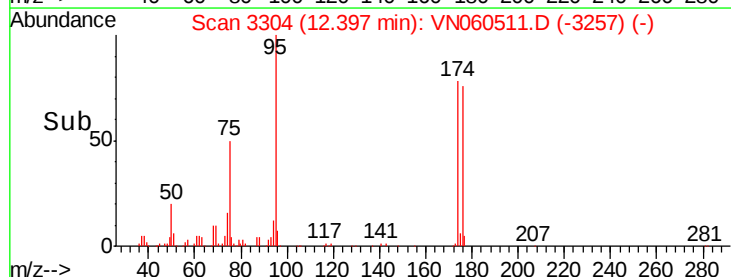
75 100

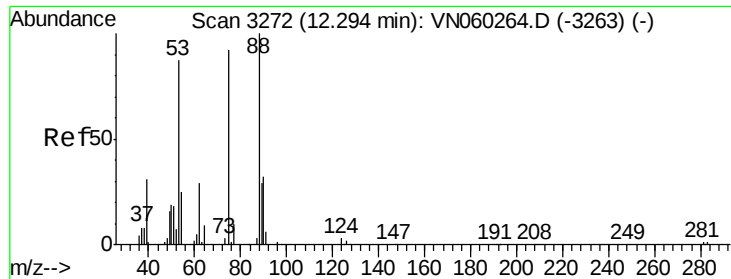
77 1.1 0.0 0.0#



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: 67.029 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

Instrument :

MSVOA_N

ClientSampleId :

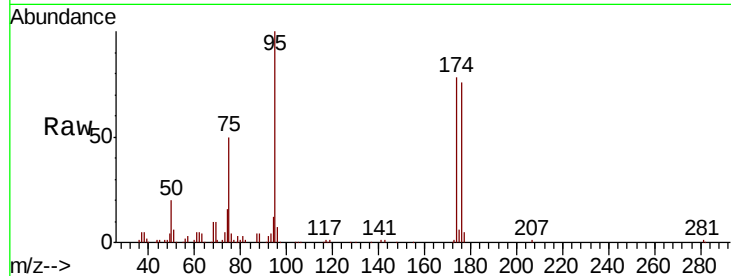
Tot Ion: 75 Resp: 79760

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

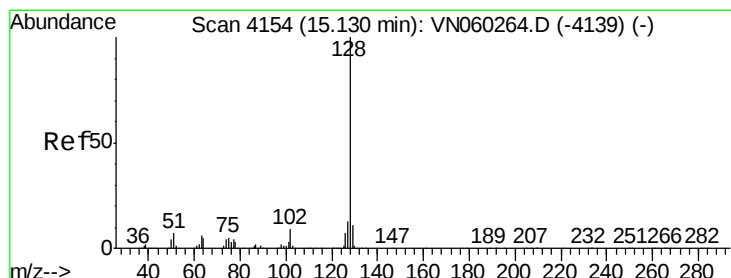
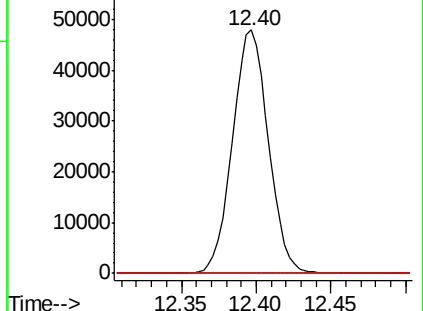
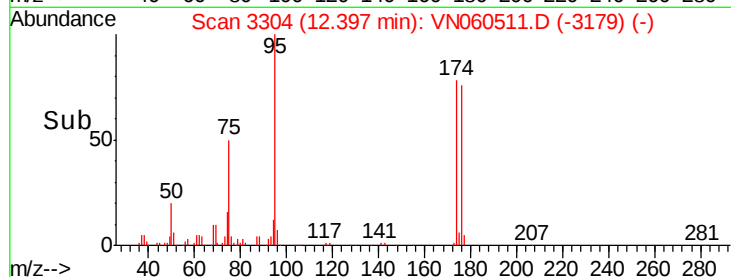
89 0.0 57.1 85.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060511.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060511.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060511.D (-3179) (-)



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN060511.D

Acq: 13 Mar 2020 18:28

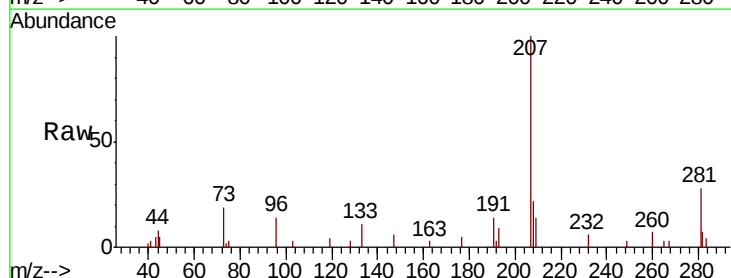
Tgt Ion: 128 Resp: 143

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): VN060511.D (-4060) (-)

Ion 127.00 (126.70 to 127.70): VN060511.D (-4060) (-)

Ion 129.00 (128.70 to 129.70): VN060511.D (-4060) (-)

