

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031020\
 Data File : VN060426.D
 Acq On : 10 Mar 2020 18:47
 Operator : JC/MD
 Sample : L1849-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-215-72-12018

Quant Time: Mar 11 06:43:13 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	196235	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	319253	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	304039	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	142333	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	126459	50.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.46%	
35) Dibromofluoromethane	7.57	113	94547	63.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	127.60%	
50) Toluene-d8	10.08	98	396723	52.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.80%	
62) 4-Bromofluorobenzene	12.40	95	148549	52.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	13003	15.993	ug/l	100
17) Carbon Disulfide	4.03	76	564	Below Cal	#	75
18) Methyl Acetate	4.30	43	1697	0.625	ug/l #	52
20) Methylene Chloride	4.52	84	7807	3.496	ug/l	95
25) 2-Butanone	6.82	43	2729	2.078	ug/l	94
31) Cyclohexane	7.64	56	4128	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15531	5.104	ug/l #	50
37) Ethyl Acetate	6.82	43	2729	0.947	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18944	6.395	ug/l #	16
43) Isopropyl Acetate	8.14	43	53030	10.514	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	970	0.419	ug/l #	44
48) Methyl methacrylate	9.16	41	2914	1.267	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4517	1.580	ug/l	91
54) cis-1,3-Dichloropropene	9.89	75	22224	5.728	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3411	0.935	ug/l #	42
59) 2-Hexanone	10.75	43	51096	24.336	ug/l #	52
71) Bromoform	12.40	173	418	0.256	ug/l #	1
74) N-amyl acetate	12.02	43	3686	0.800	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	75861	24.293	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	75861	67.059	ug/l #	8
92) 1,2-Dibromo-3-Chloropropan	14.49	75	155	0.239	ug/l #	3
95) Naphthalene	15.13	128	1168	Below Cal	#	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

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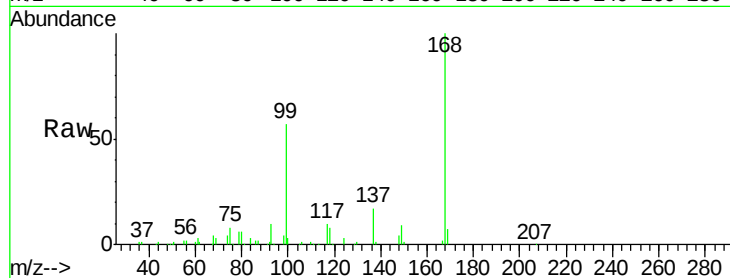
VNJ-215-72-12018

Tgt Ion:168 Resp: 196235

Ion Ratio Lower Upper

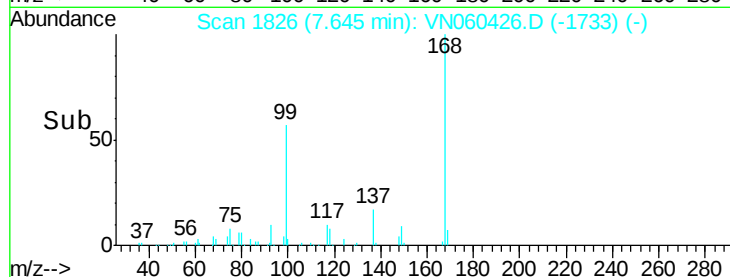
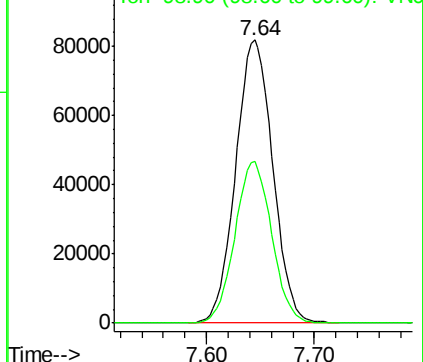
168 100

99 57.0 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: 15.993 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060426.D

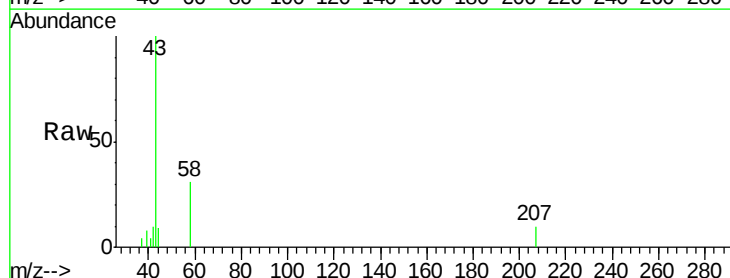
Acq: 10 Mar 2020 18:47

Tgt Ion: 43 Resp: 13003

Ion Ratio Lower Upper

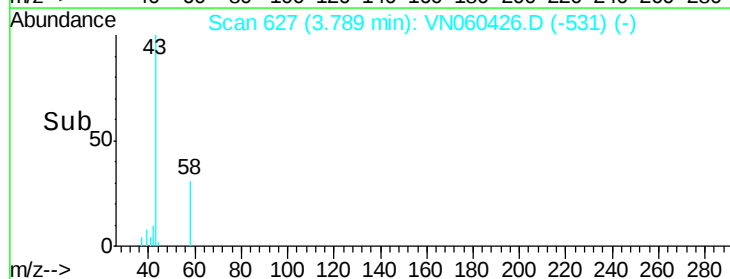
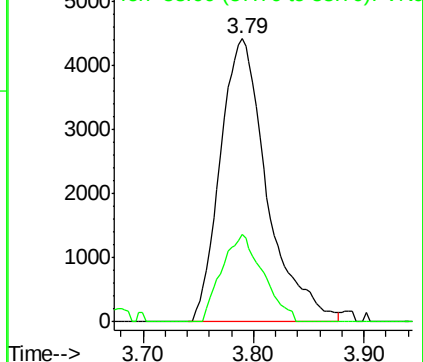
43 100

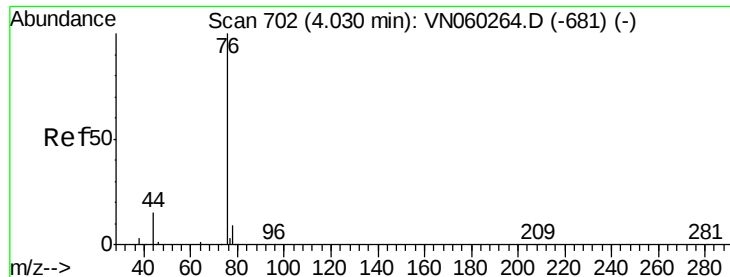
58 30.9 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

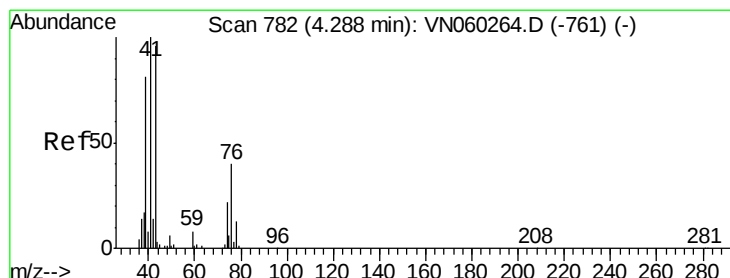
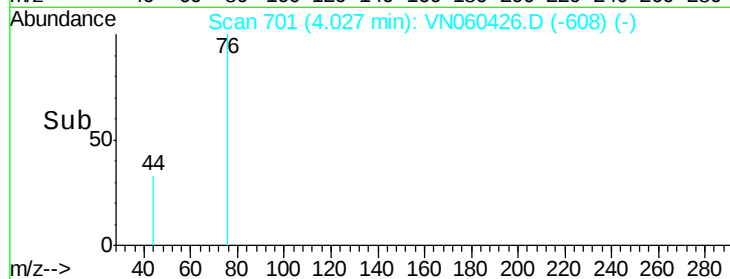
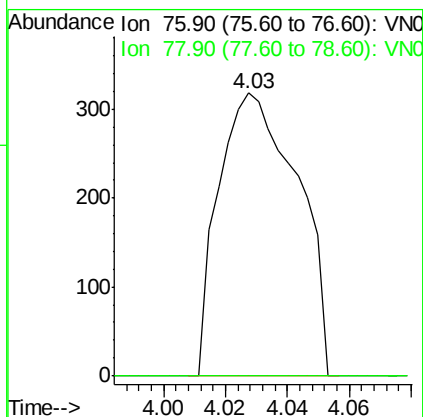
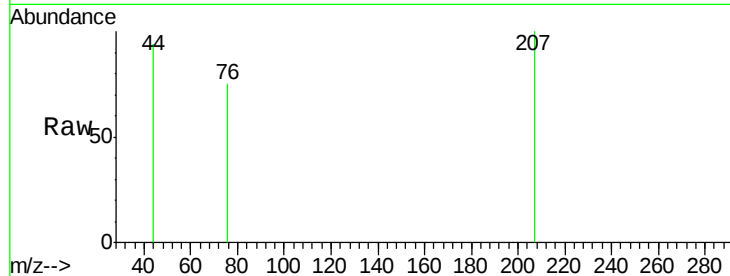




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.03 min Scan# 701
Delta R.T. -0.00 min
Lab File: VN060426.D
Acq: 10 Mar 2020 18:47

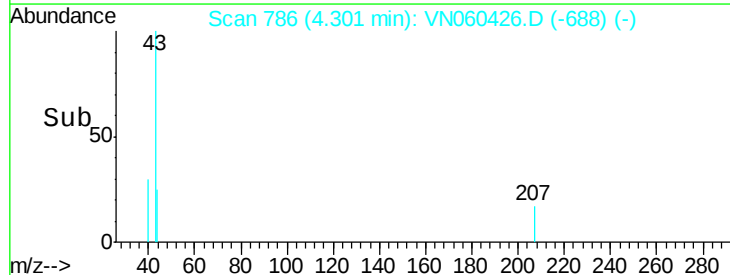
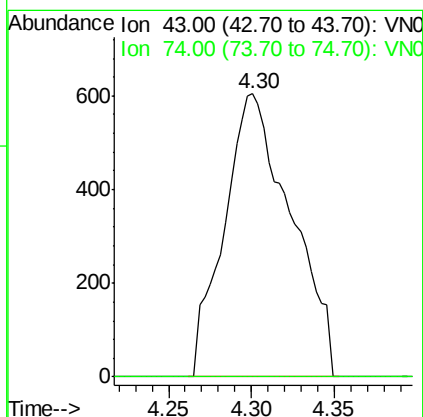
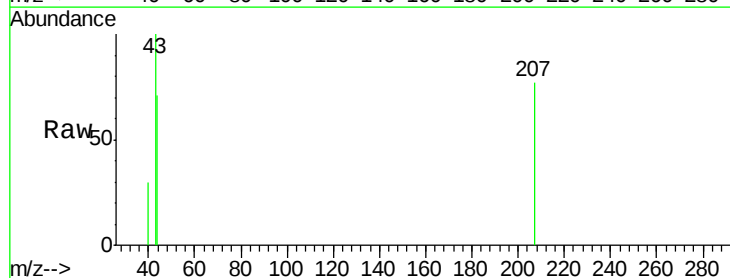
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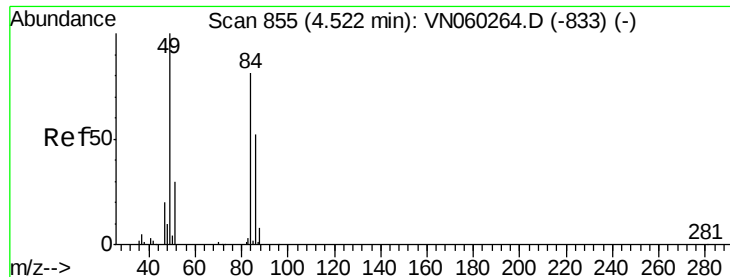
Tgt Ion: 76 Resp: 564
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.625 ug/l
RT: 4.30 min Scan# 786
Delta R.T. 0.01 min
Lab File: VN060426.D
Acq: 10 Mar 2020 18:47

Tgt Ion: 43 Resp: 1697
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#





#20

Methylene Chloride

Concen: 3.496 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

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Tgt Ion: 84 Resp: 7807

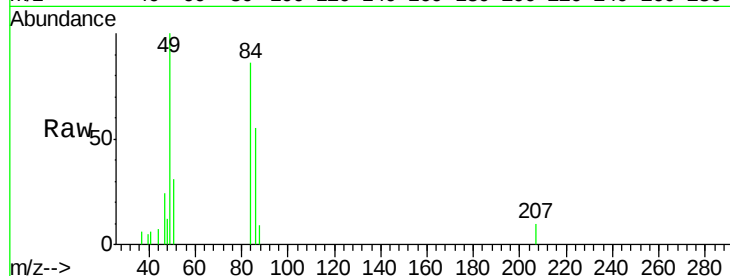
Ion Ratio Lower Upper

84 100

49 115.8 99.3 148.9

51 36.0 30.1 45.1

86 63.7 51.1 76.7

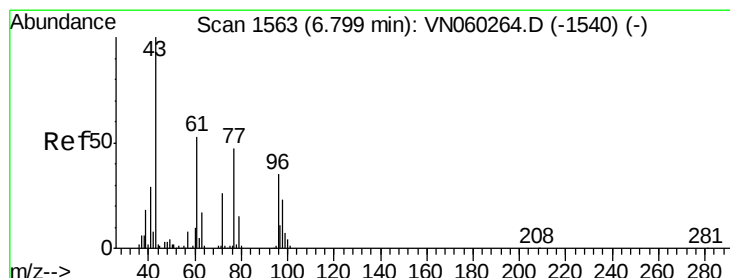
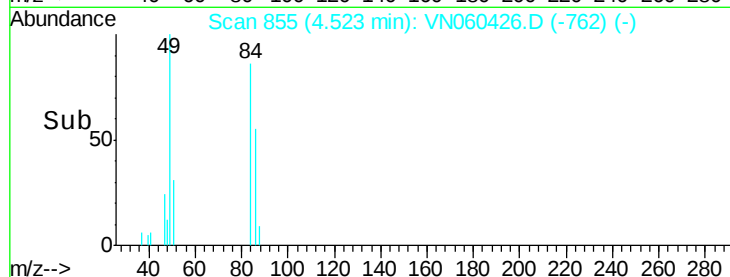
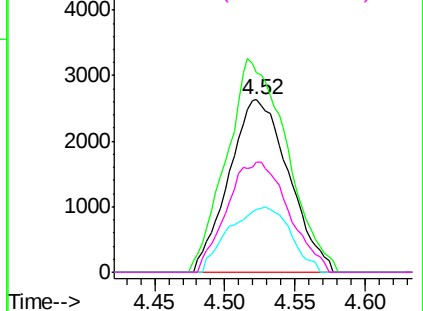


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.078 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.02 min

Lab File: VN060426.D

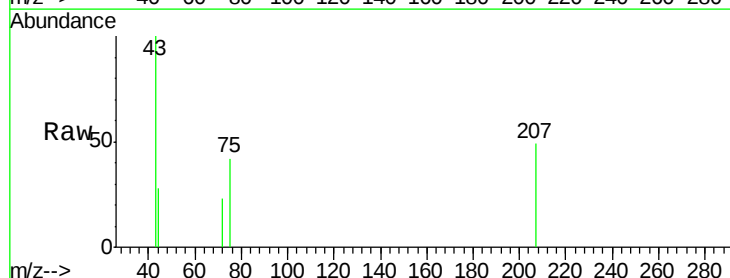
Acq: 10 Mar 2020 18:47

Tgt Ion: 43 Resp: 2729

Ion Ratio Lower Upper

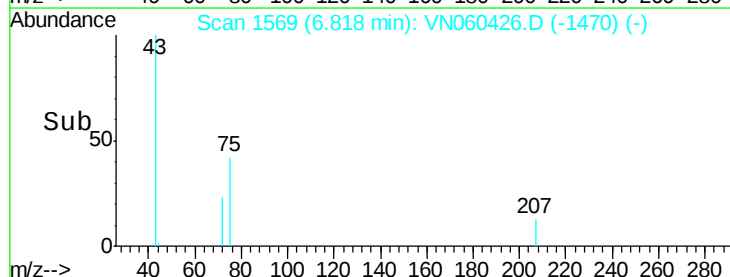
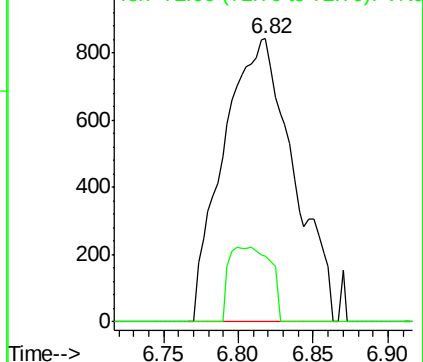
43 100

72 23.2 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

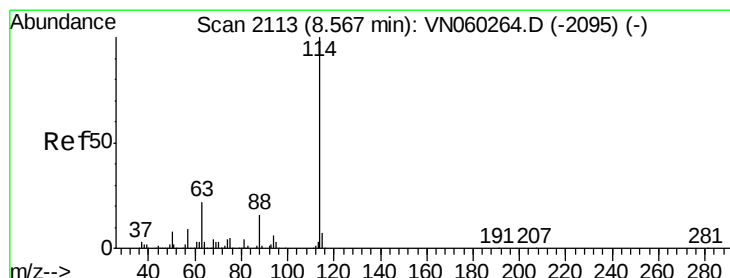
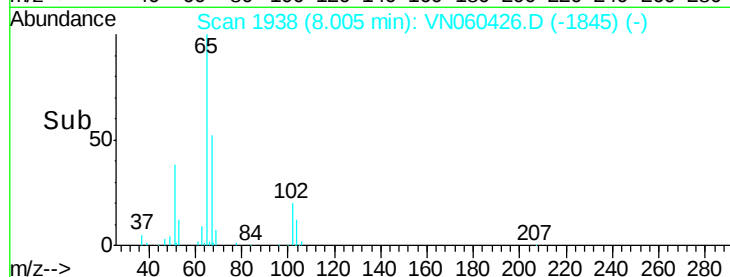
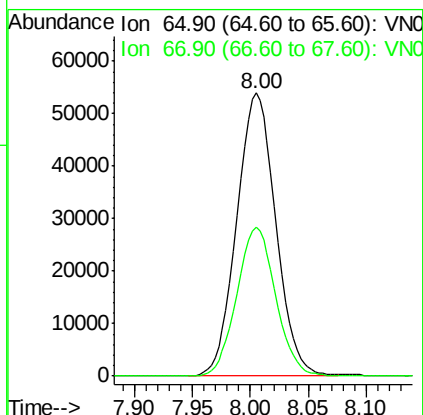
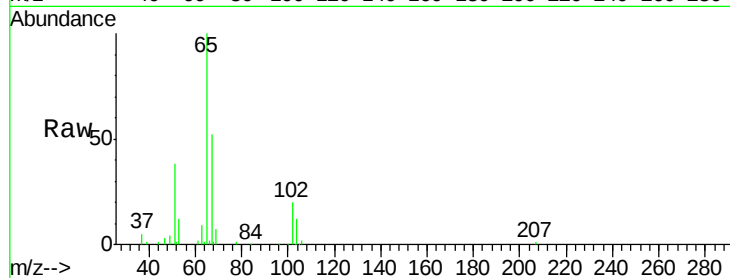




#33
 1,2-Dichloroethane-d4
 Concen: 50.228 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060426.D
 Acq: 10 Mar 2020 18:47

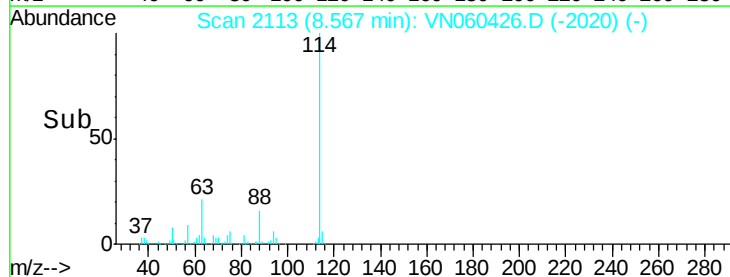
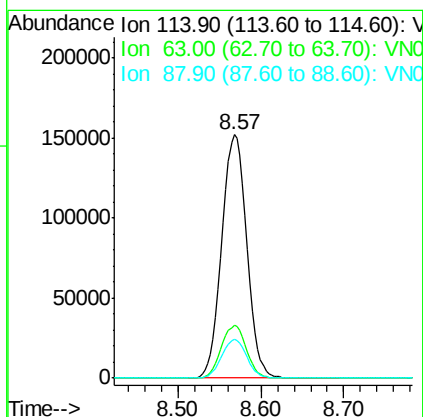
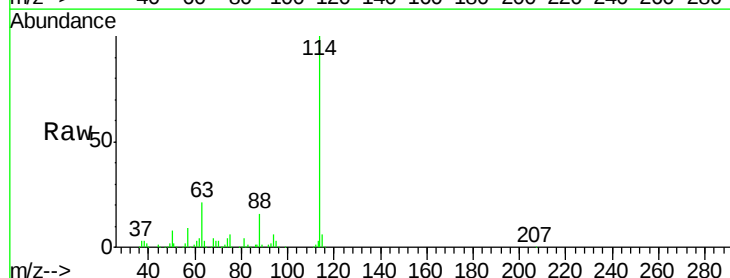
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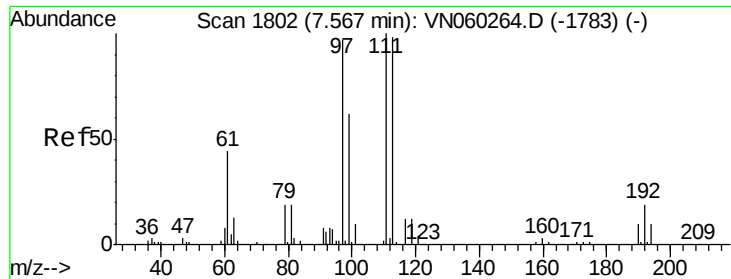
Tgt Ion: 65 Resp: 126459
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060426.D
 Acq: 10 Mar 2020 18:47

Tgt Ion: 114 Resp: 319253
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.2
 88 15.8 0.0 31.6

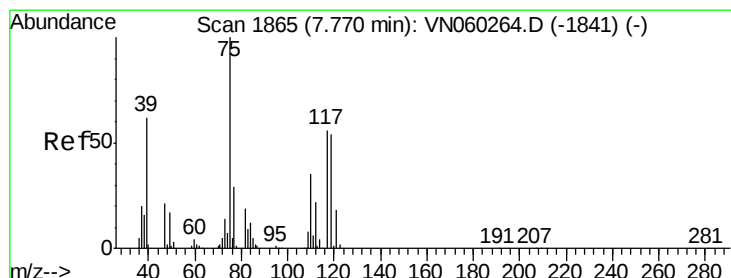
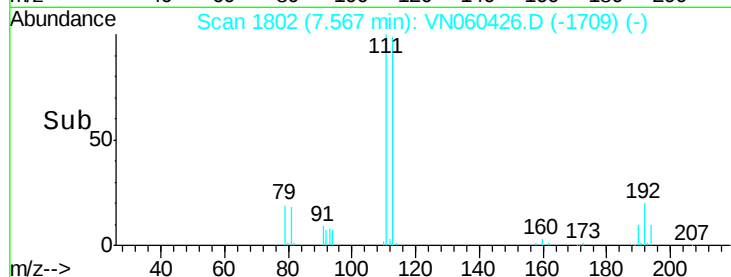
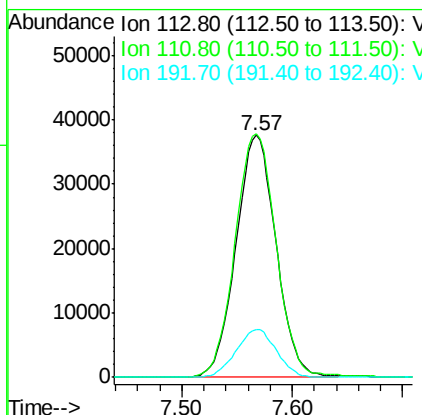
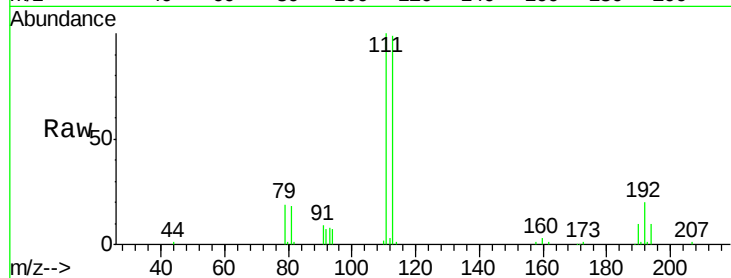




#35
 Dibromofluoromethane
 Concen: 63.803 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060426.D
 Acq: 10 Mar 2020 18:47

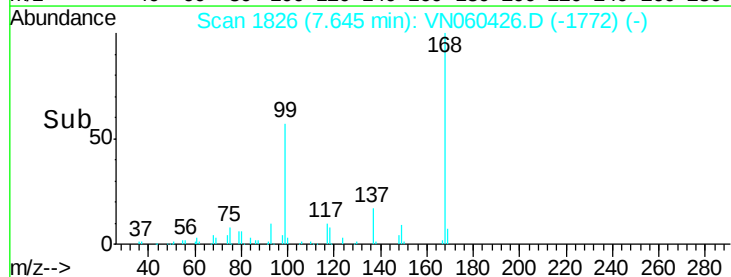
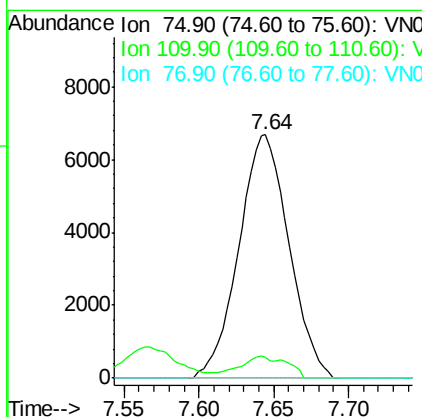
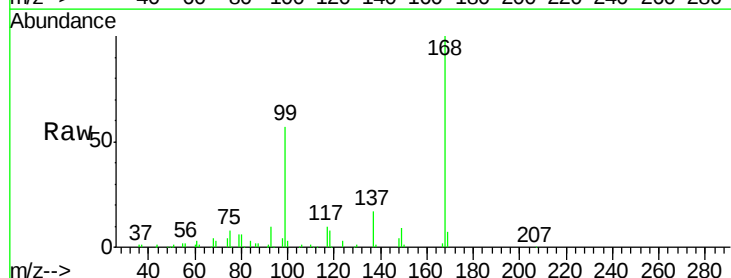
Instrument :
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 ClientSampleId :
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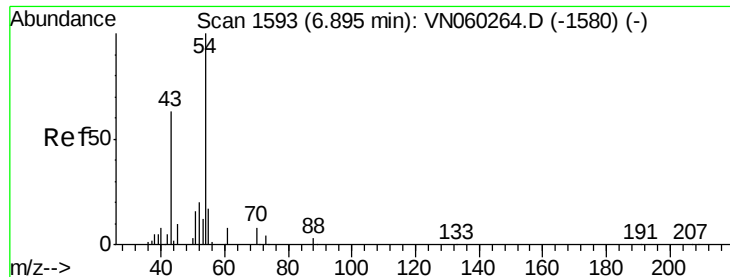
Tgt Ion:113 Resp: 94547
 Ion Ratio Lower Upper
 113 100
 111 103.6 82.4 123.6
 192 19.9 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 5.104 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060426.D
 Acq: 10 Mar 2020 18:47

Tgt Ion: 75 Resp: 15531
 Ion Ratio Lower Upper
 75 100
 110 8.5 17.3 52.0#
 77 0.0 24.2 36.2#

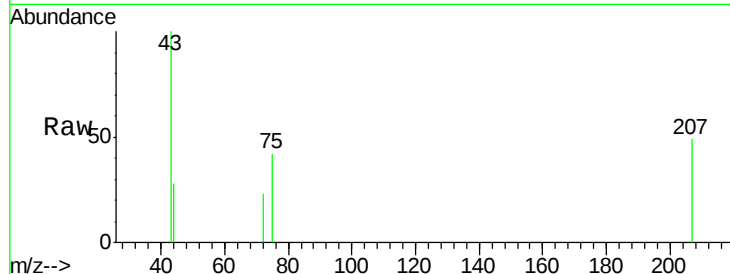




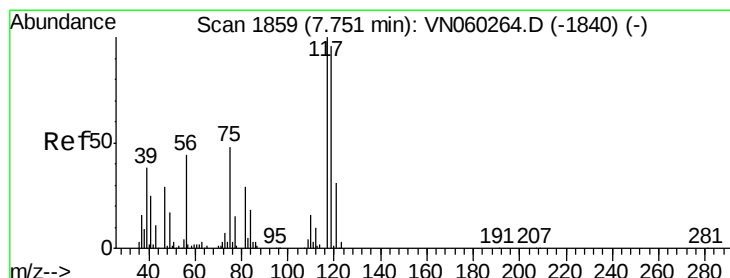
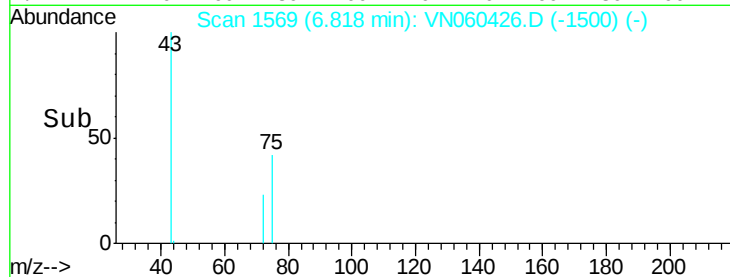
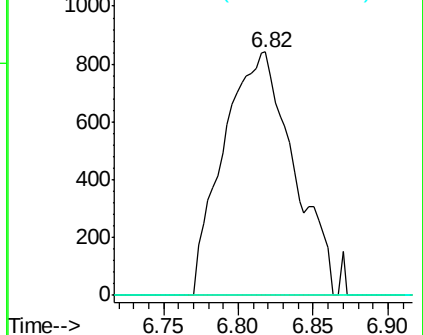
#37
 Ethyl Acetate
 Concen: 0.947 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. -0.08 min
 Lab File: VN060426.D
 Acq: 10 Mar 2020 18:47

Instrument :
 MSVOA_N
 ClientSampleId :
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Tgt Ion: 43 Resp: 2729
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.1 16.7#
 70 0.0 8.4 12.6#

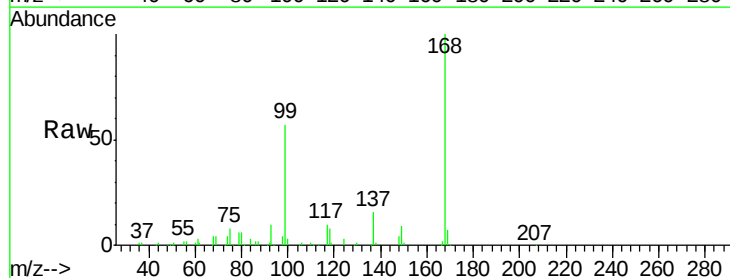


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

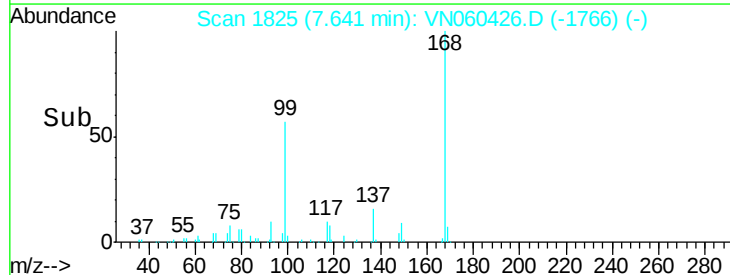
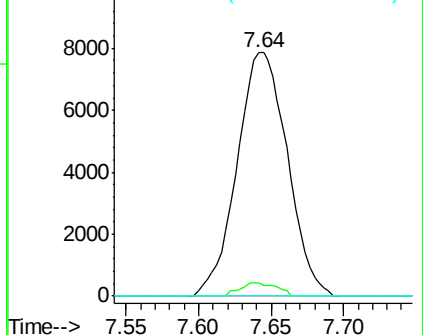


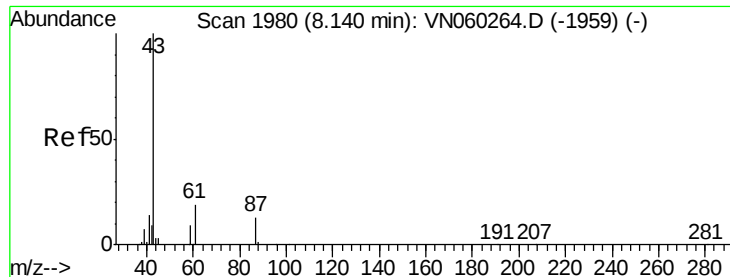
#38
 Carbon Tetrachloride
 Concen: 6.395 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060426.D
 Acq: 10 Mar 2020 18:47

Tgt Ion: 117 Resp: 18944
 Ion Ratio Lower Upper
 117 100
 119 5.2 76.7 115.1#
 121 0.0 24.5 36.7#



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





#43

Isopropyl Acetate

Concen: 10.514 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

Instrument :

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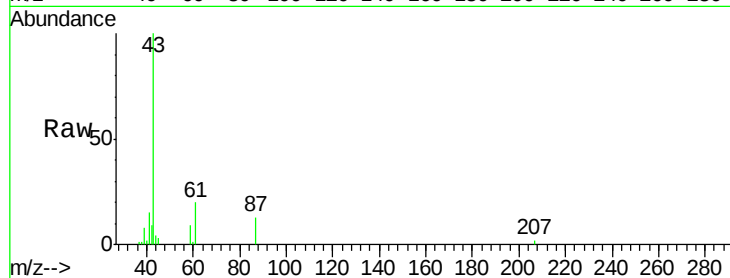
Tgt Ion: 43 Resp: 53030

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

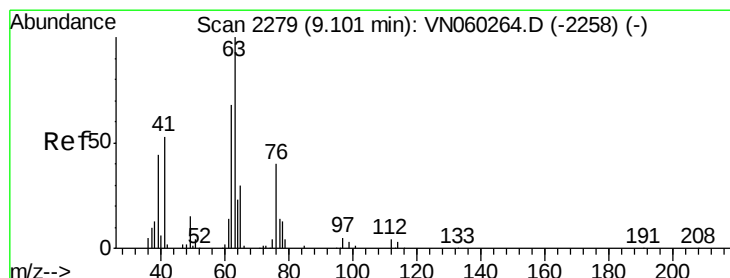
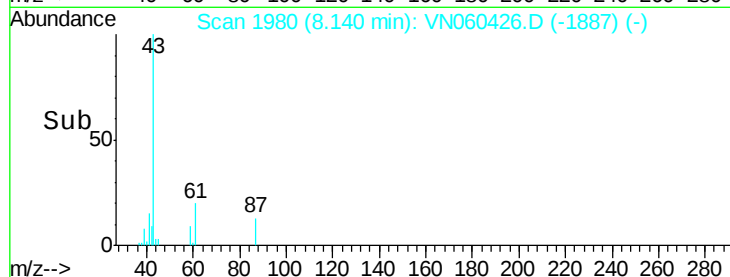
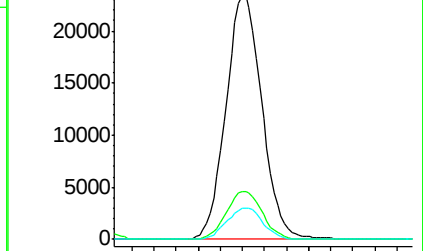
87 12.6 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060426.D (-1887) (-)

Ion 61.00 (60.70 to 61.70): VN060426.D (-1887) (-)

Ion 87.00 (86.70 to 87.70): VN060426.D (-1887) (-)



#45

1,2-Dichloropropane

Concen: 0.419 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060426.D

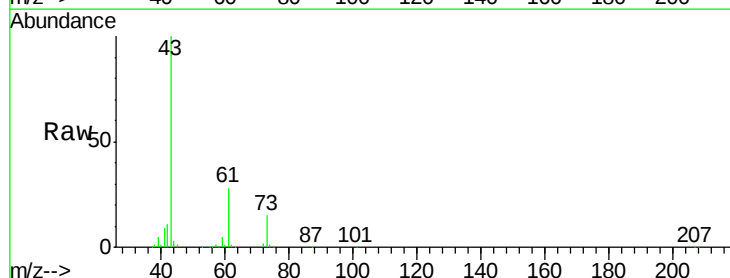
Acq: 10 Mar 2020 18:47

Tgt Ion: 63 Resp: 970

Ion Ratio Lower Upper

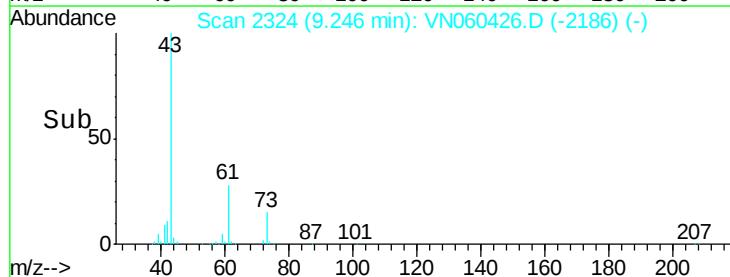
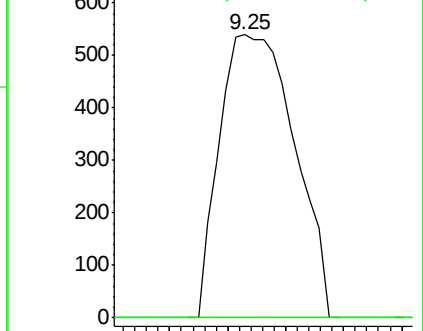
63 100

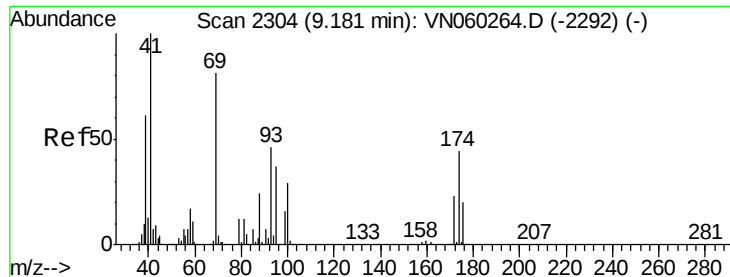
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060426.D (-2186) (-)

Ion 64.90 (64.60 to 65.60): VN060426.D (-2186) (-)

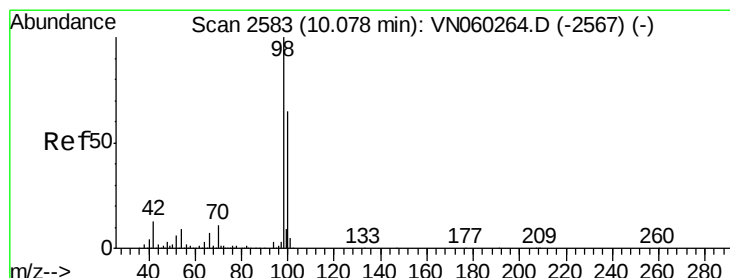
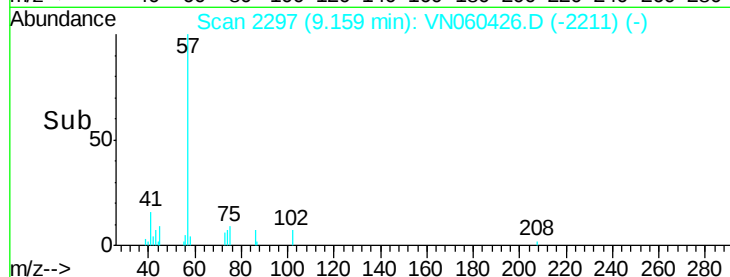
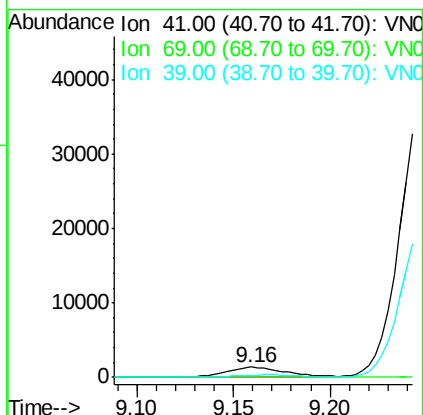
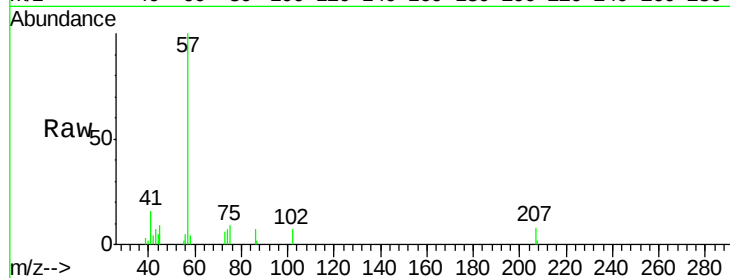




#48
Methyl methacrylate
Concen: 1.267 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060426.D
Acq: 10 Mar 2020 18:47

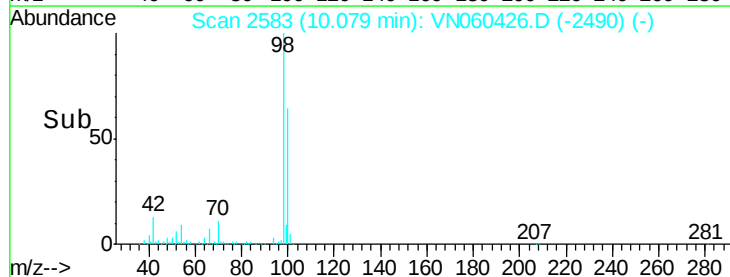
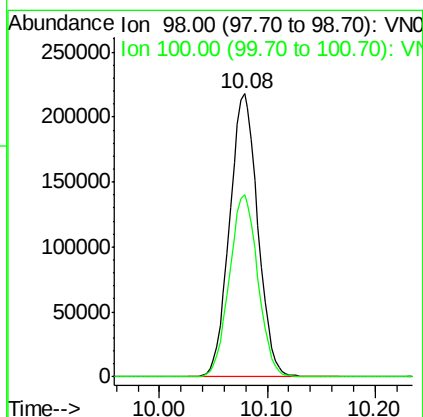
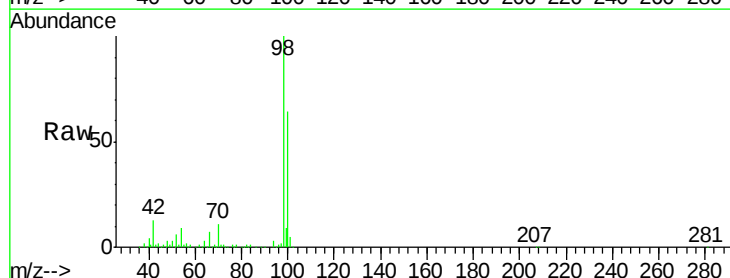
Instrument :
MSVOA_N
ClientSampleId :
VNJ-215-72-12018

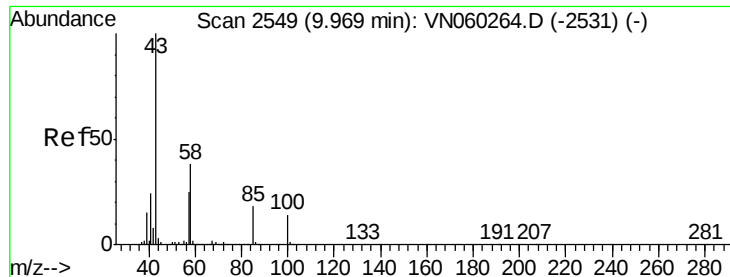
Tgt Ion: 41 Resp: 2914
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#



#50
Toluene-d8
Concen: 52.897 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN060426.D
Acq: 10 Mar 2020 18:47

Tgt Ion: 98 Resp: 396723
Ion Ratio Lower Upper
98 100
100 65.1 52.2 78.2

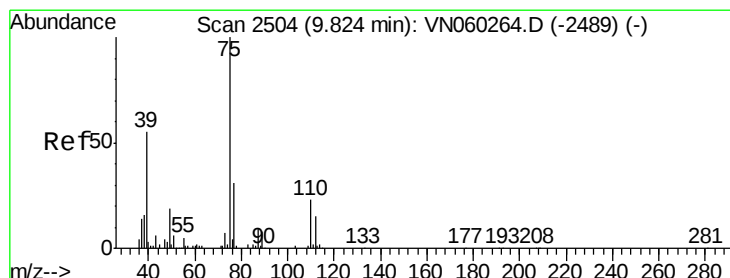
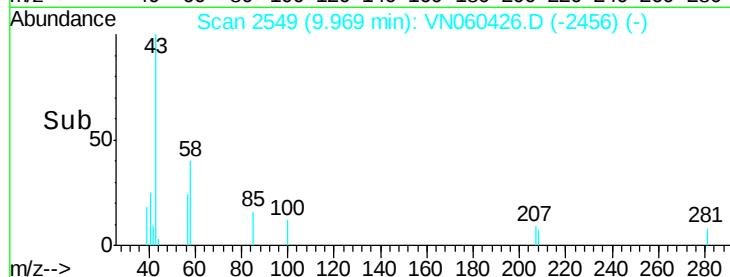
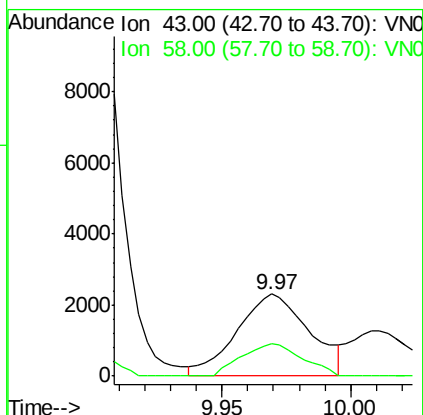
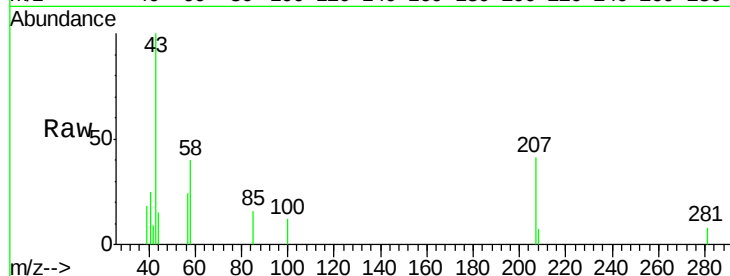




#51
 4-Methyl-2-Pentanone
 Concen: 1.580 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. 0.00 min
 Lab File: VN060426.D
 Acq: 10 Mar 2020 18:47

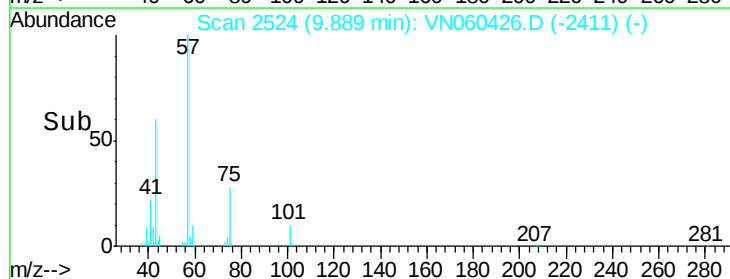
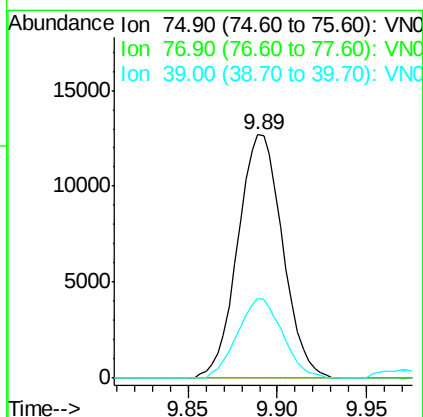
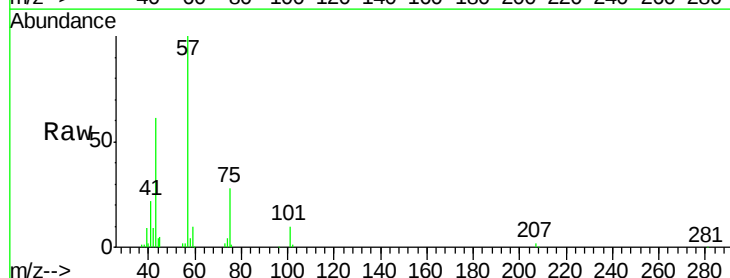
Instrument :
 MSVOA_N
 ClientSampleId :
 VNJ-215-72-12018

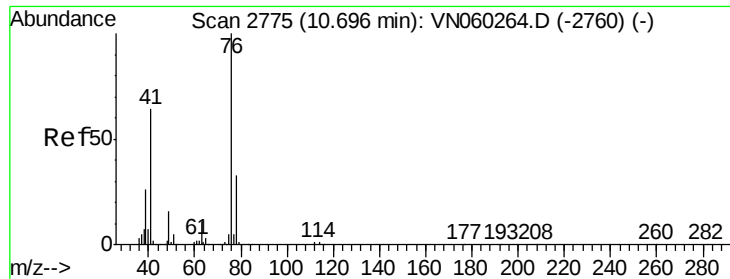
Tgt Ion: 43 Resp: 4517
 Ion Ratio Lower Upper
 43 100
 58 33.0 30.9 46.3



#54
 cis-1,3-Dichloropropene
 Concen: 5.728 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060426.D
 Acq: 10 Mar 2020 18:47

Tgt Ion: 75 Resp: 22224
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 32.8 43.8 65.8#





#57

1,3-Dichloropropane

Concen: 0.935 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

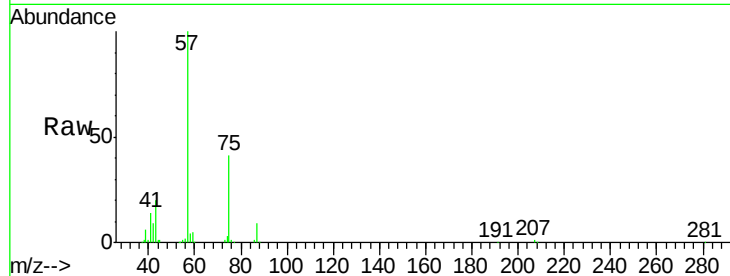
VNJ-215-72-12018

Tgt Ion: 76 Resp: 3411

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

2500

2000

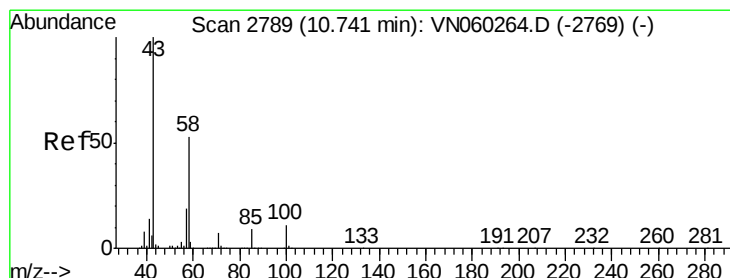
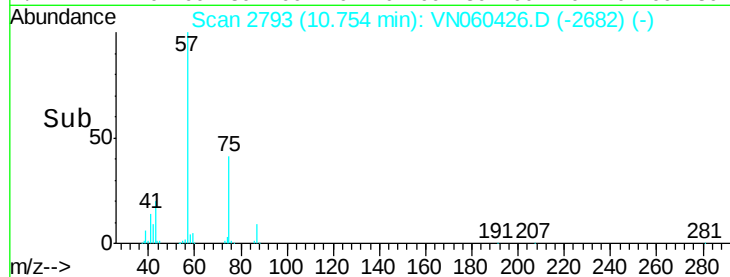
1500

1000

500

0

Time--> 10.70 10.75 10.80



#59

2-Hexanone

Concen: 24.336 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060426.D

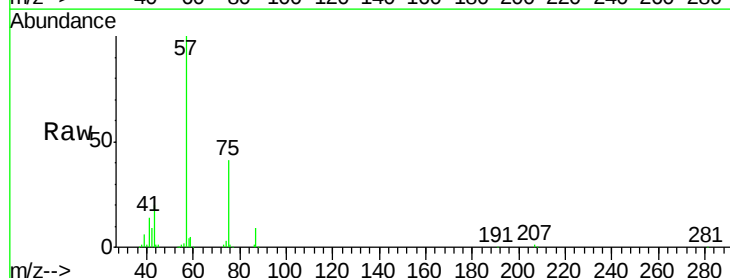
Acq: 10 Mar 2020 18:47

Tgt Ion: 43 Resp: 51096

Ion Ratio Lower Upper

43 100

58 19.1 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

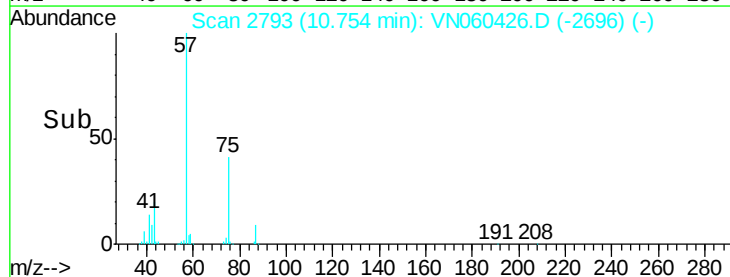
30000

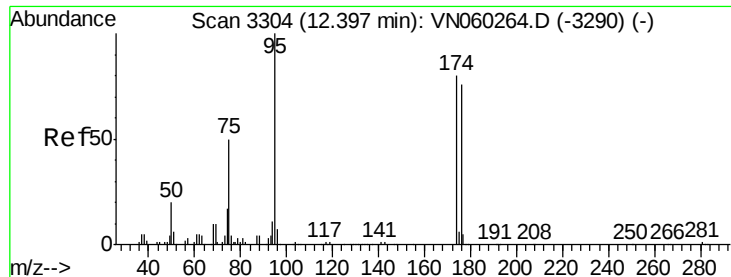
20000

10000

0

Time--> 10.70 10.75 10.80





#62

4-Bromofluorobenzene

Concen: 52.250 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

VNJ-215-72-12018

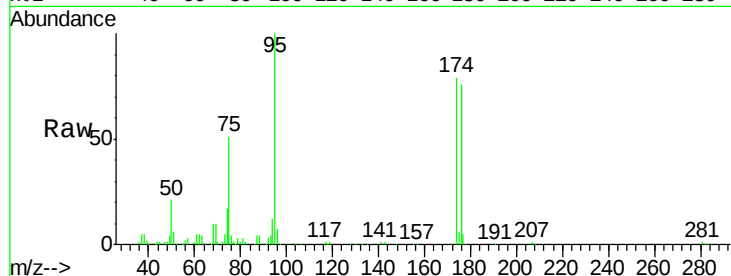
Tgt Ion: 95 Resp: 148549

Ion Ratio Lower Upper

95 100

174 79.5 0.0 159.2

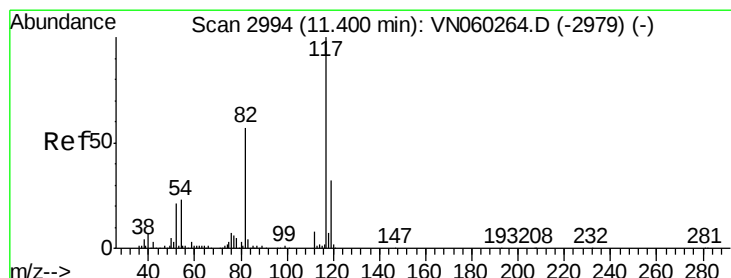
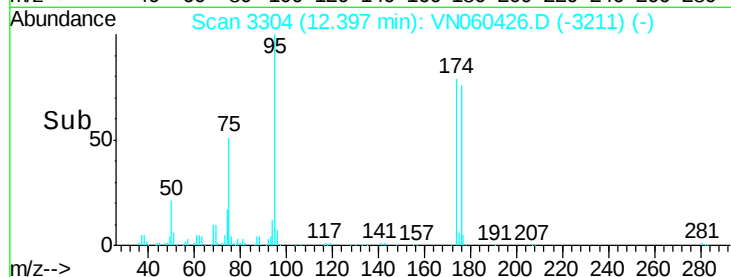
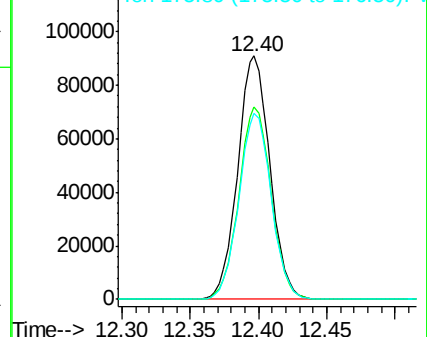
176 77.1 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060426.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060426.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060426.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

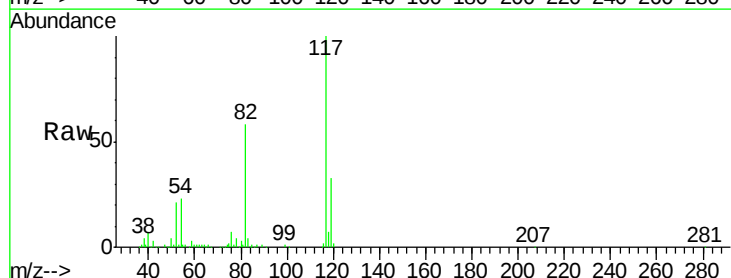
Tgt Ion: 117 Resp: 304039

Ion Ratio Lower Upper

117 100

82 57.8 45.8 68.6

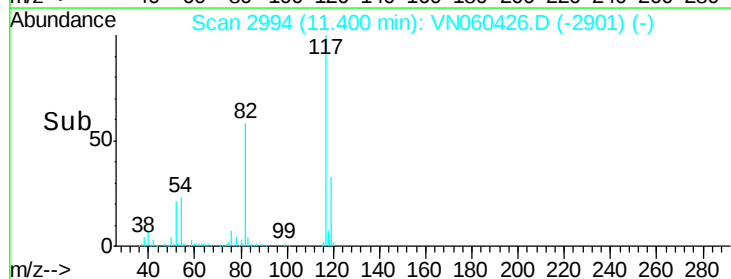
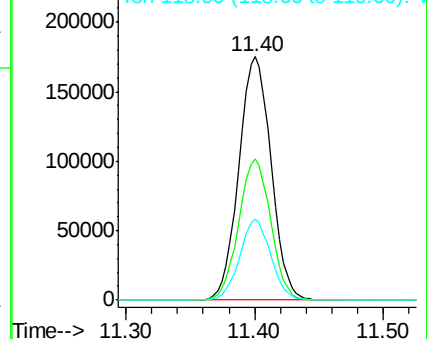
119 33.1 25.8 38.8

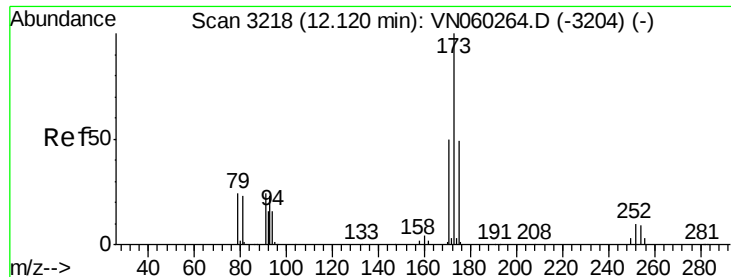


Abundance Ion 116.90 (116.60 to 117.60): VN060426.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060426.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060426.D (-2979) (-)





#71

Bromoform

Concen: 0.256 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

VNJ-215-72-12018

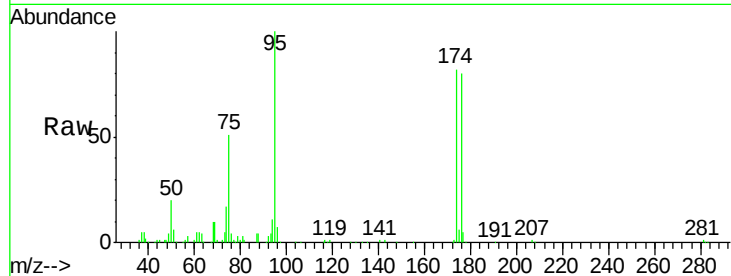
Tgt Ion:173 Resp: 418

Ion Ratio Lower Upper

173 100

175 1728.0 24.1 72.2#

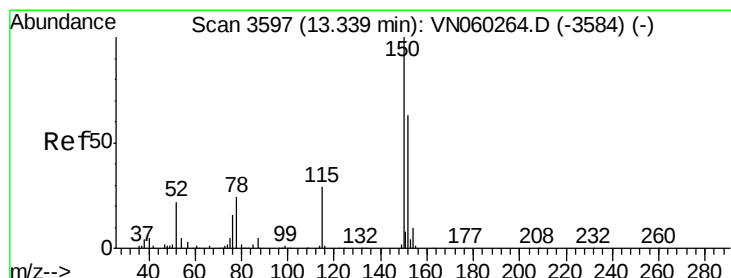
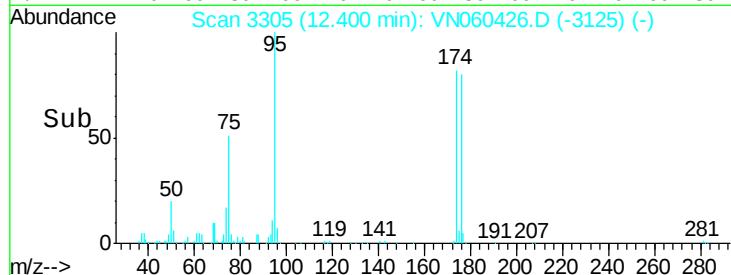
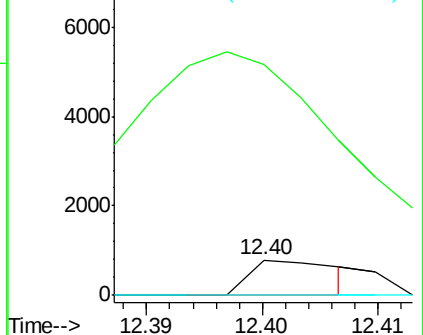
254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

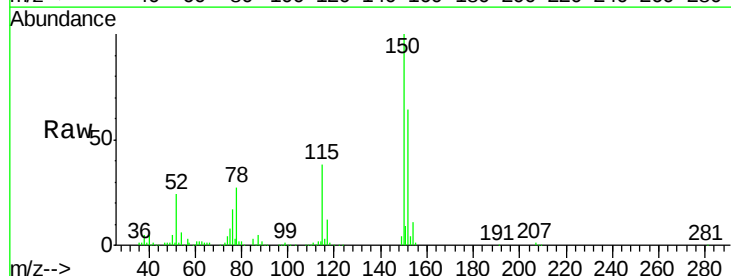
Tgt Ion:152 Resp: 142333

Ion Ratio Lower Upper

152 100

115 59.4 30.0 90.0

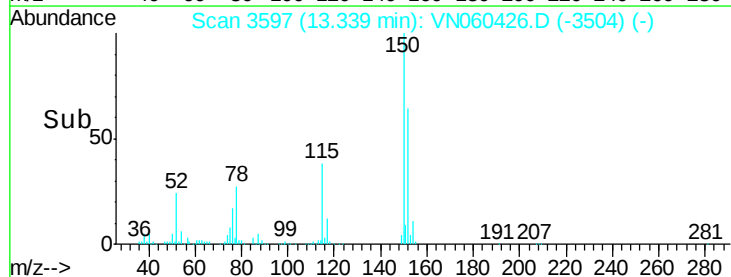
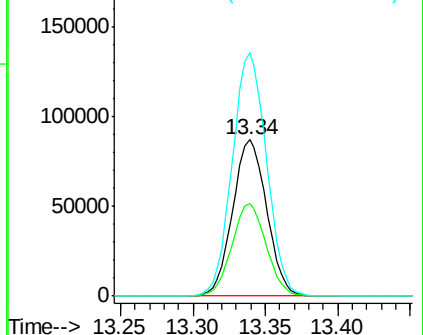
150 156.5 0.0 349.6

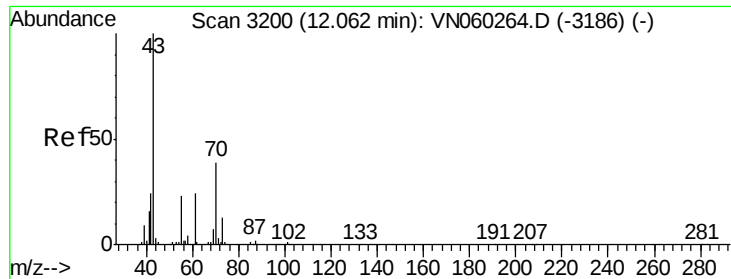


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.800 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

VNJ-215-72-12018

Tgt Ion: 43 Resp: 3686

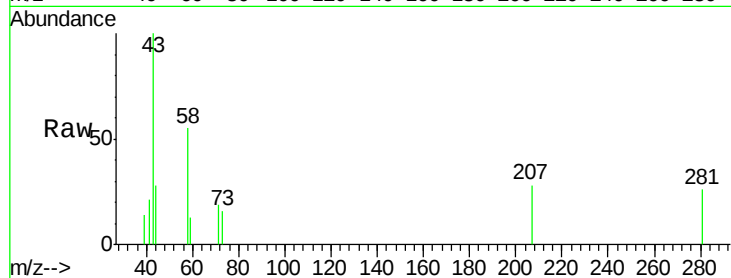
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

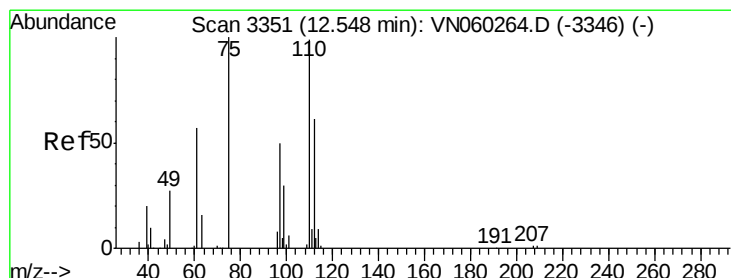
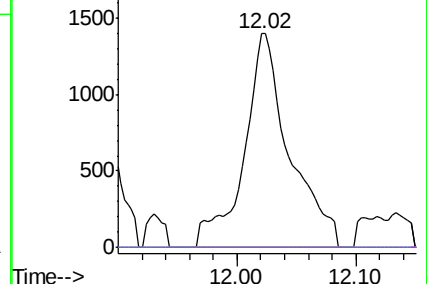
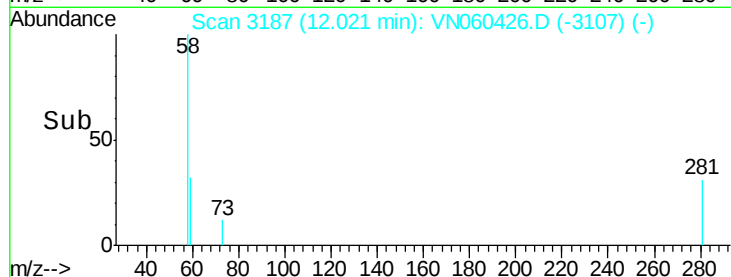


Abundance Ion 43.00 (42.70 to 43.70): VN060426.D (-3186) (-)

Ion 70.00 (69.70 to 70.70): VN060426.D (-3186) (-)

Ion 55.00 (54.70 to 55.70): VN060426.D (-3186) (-)

Ion 61.00 (60.70 to 61.70): VN060426.D (-3186) (-)



#76

1,2,3-Trichloropropane

Concen: 24.293 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060426.D

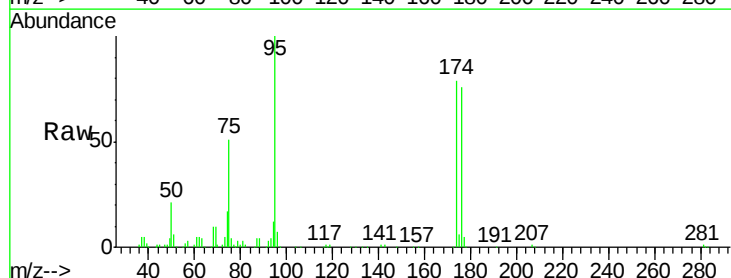
Acq: 10 Mar 2020 18:47

Tgt Ion: 75 Resp: 75861

Ion Ratio Lower Upper

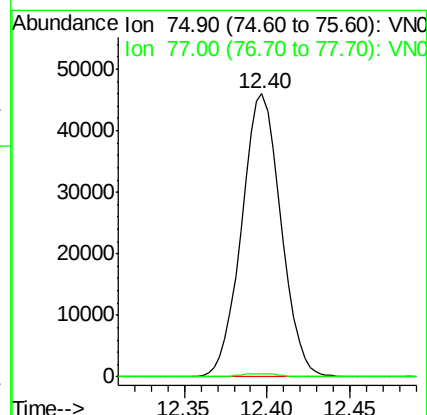
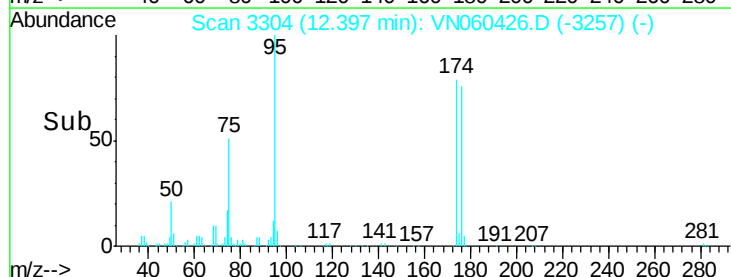
75 100

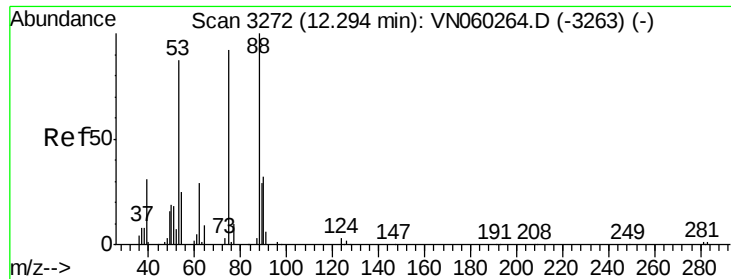
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060426.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060426.D (-3346) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 67.059 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

VNJ-215-72-12018

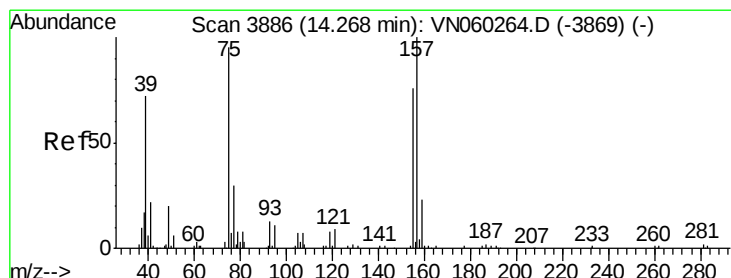
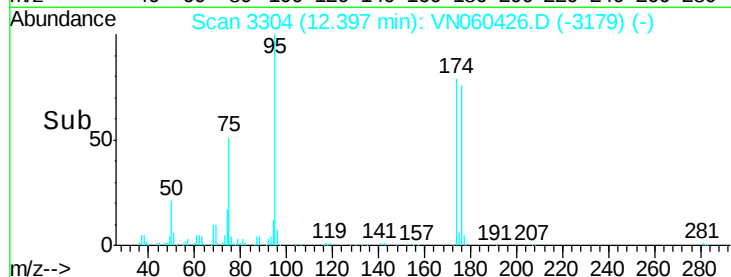
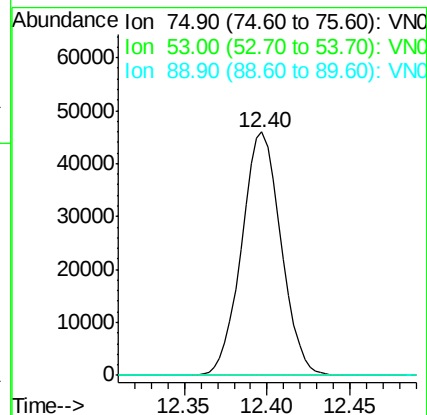
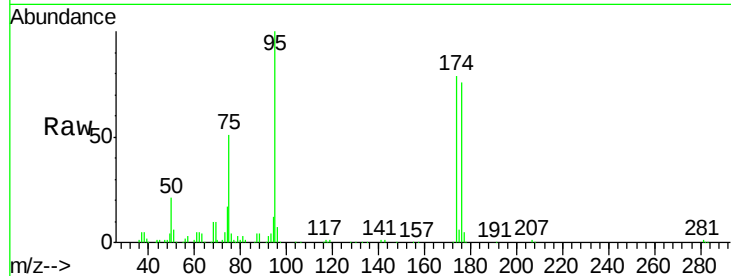
Tgt Ion: 75 Resp: 75861

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.239 ug/l

RT: 14.49 min Scan# 3955

Delta R.T. 0.22 min

Lab File: VN060426.D

Acq: 10 Mar 2020 18:47

Tgt Ion: 75 Resp: 155

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

157 0.0 52.5 157.5#

