

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030220\
 Data File : VN060312.D
 Acq On : 2 Mar 2020 15:27
 Operator : JC/MD
 Sample : L1723-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 03 05:47:14 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	197877	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	322530	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	301081	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143400	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	126577	49.86	ug/l	0.00
Spiked Amount			Recovery	=	99.72%	
35) Dibromofluoromethane	7.57	113	88052	58.82	ug/l	0.00
Spiked Amount			Recovery	=	117.64%	
50) Toluene-d8	10.08	98	393454	51.93	ug/l	0.00
Spiked Amount			Recovery	=	103.86%	
62) 4-Bromofluorobenzene	12.40	95	150347	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	

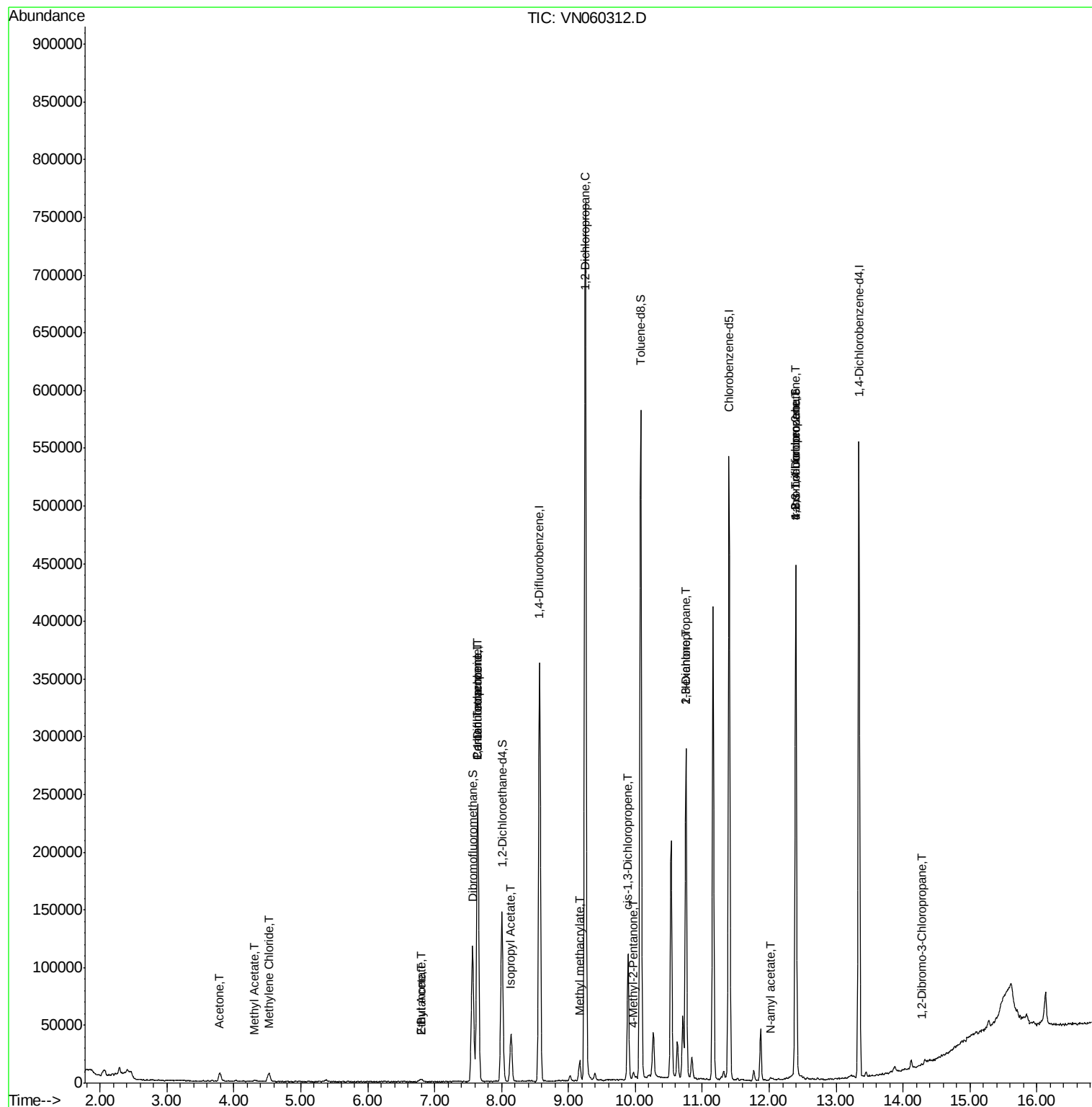
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	13217	16.121	ug/l #	88
17) Carbon Disulfide	4.03	76	413	Below Cal	#	75
18) Methyl Acetate	4.30	43	901	0.329	ug/l #	52
20) Methylene Chloride	4.52	84	5365	2.383	ug/l	98
21) trans-1,2-Dichloroethene	4.87	96	29	Below Cal	#	1
25) 2-Butanone	6.81	43	3193	2.411	ug/l	100
31) Cyclohexane	7.64	56	4199	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15121	4.919	ug/l #	51
37) Ethyl Acetate	6.81	43	3193	1.097	ug/l #	68
38) Carbon Tetrachloride	7.64	117	19205	6.417	ug/l #	16
43) Isopropyl Acetate	8.14	43	48884	9.594	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	869	0.372	ug/l #	44
48) Methyl methacrylate	9.16	41	2758	1.187	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4124	1.427	ug/l #	86
54) cis-1,3-Dichloropropene	9.89	75	19985	5.099	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3103	0.842	ug/l #	42
59) 2-Hexanone	10.75	43	43254	20.391	ug/l #	51
74) N-amyl acetate	12.02	43	2030	0.437	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	77297	24.568	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	77297	67.820	ug/l #	8
87) 1,3-Dichlorobenzene	13.23	146	70	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.35	146	161	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.27	75	461	0.705	ug/l #	3
95) Naphthalene	15.13	128	641	Below Cal	#	69
96) 1,2,3-Trichlorobenzene	15.31	180	30	Below Cal	#	1

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :

MSVOA_N

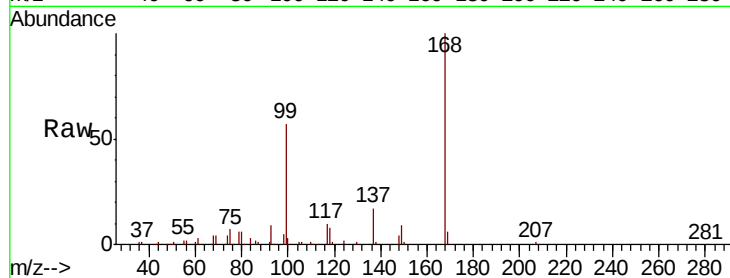
ClientSampleId :

Tot Ion:168 Resp: 197877

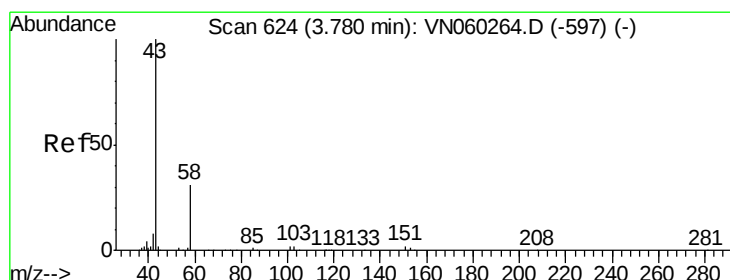
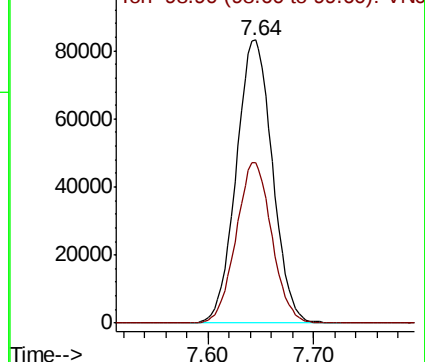
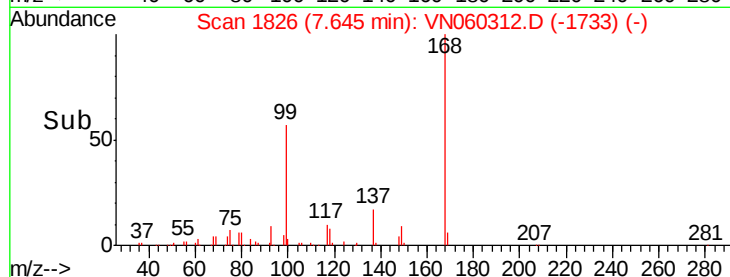
Ion Ratio Lower Upper

168 100

99 56.6 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): VN060312.D (-1733) (-)



#16

Acetone

Concen: 16.121 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060312.D

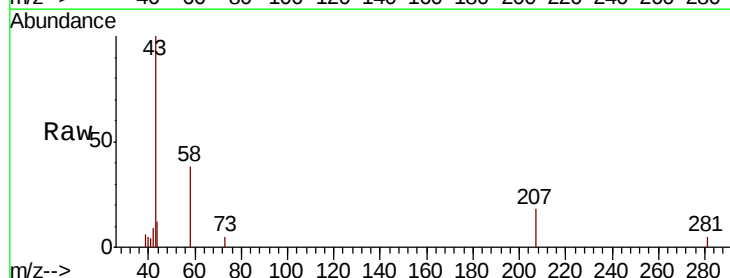
Acq: 2 Mar 2020 15:27

Tgt Ion: 43 Resp: 13217

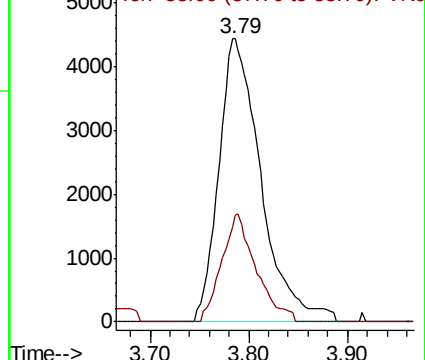
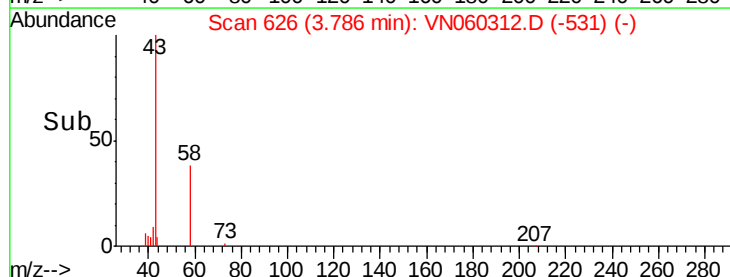
Ion Ratio Lower Upper

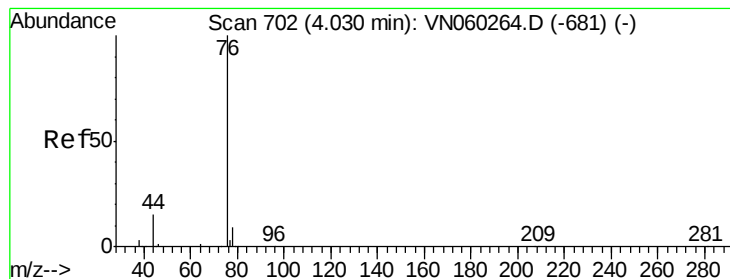
43 100

58 37.5 24.6 36.8#



Abundance Ion 43.00 (42.70 to 43.70): VN060312.D (-531) (-)





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :

MSVOA_N

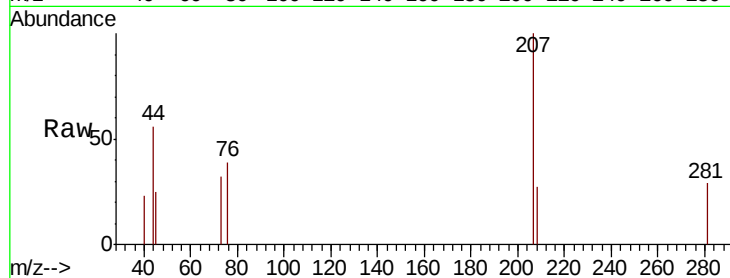
ClientSampleId :

Tot Ion: 76 Resp: 413

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

250

200

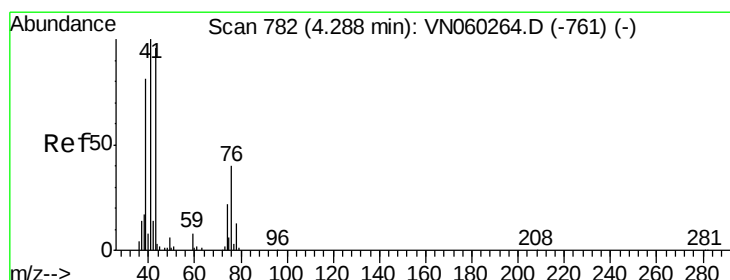
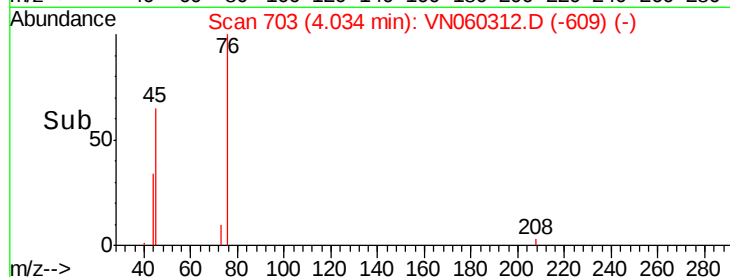
150

100

50

0

Time--> 4.00 4.02 4.04 4.06



#18

Methyl Acetate

Concen: 0.329 ug/l

RT: 4.30 min Scan# 786

Delta R.T. 0.01 min

Lab File: VN060312.D

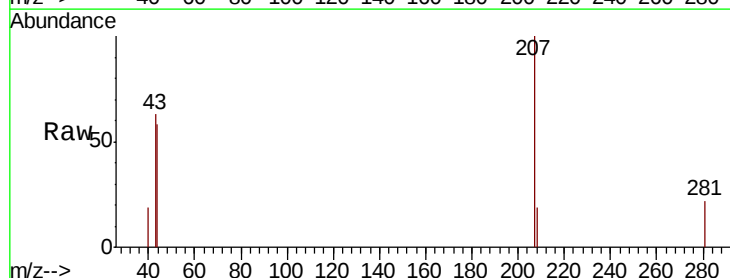
Acq: 2 Mar 2020 15:27

Tgt Ion: 43 Resp: 901

Ion Ratio Lower Upper

43 100

74 0.0 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.30

600

500

400

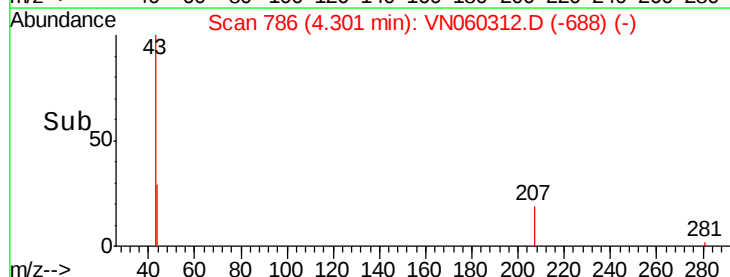
300

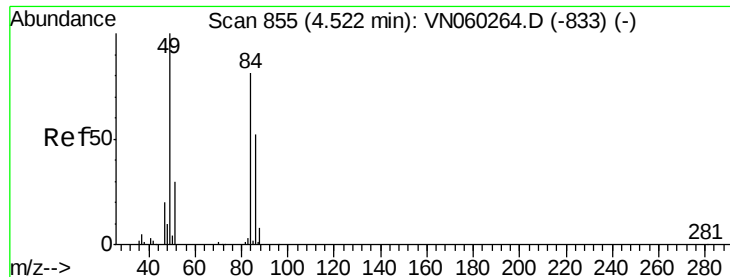
200

100

0

Time--> 4.24 4.26 4.28 4.30 4.32

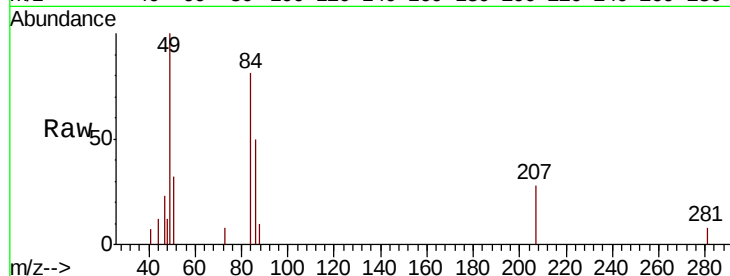




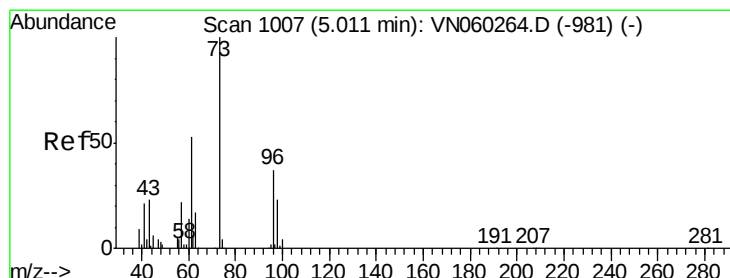
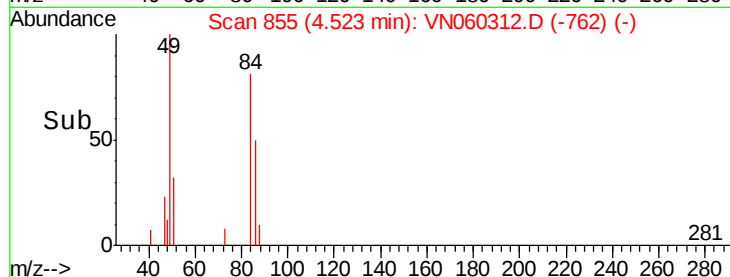
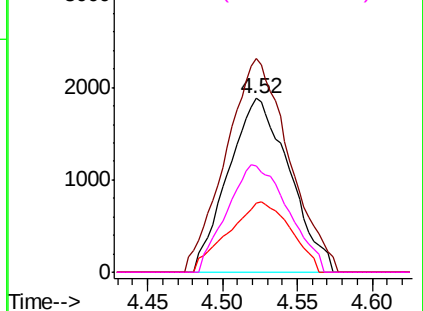
#20
Methylene Chloride
Concen: 2.383 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060312.D
Acq: 2 Mar 2020 15:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	84	Resp:	5365
Ion	Ratio	Lower	Upper
84	100		
49	123.1	99.3	148.9
51	39.9	30.1	45.1
86	61.3	51.1	76.7

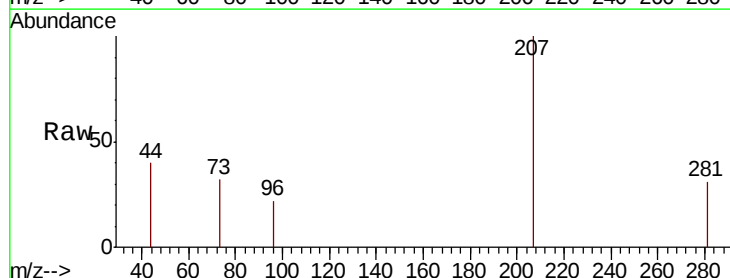


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

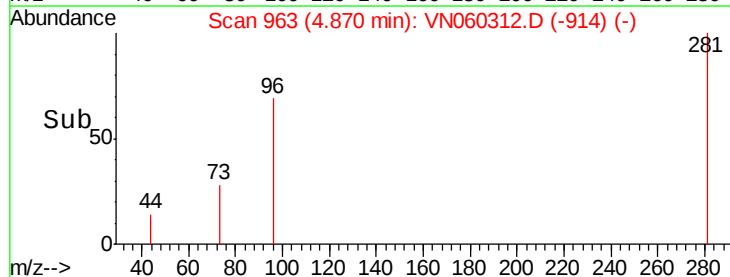
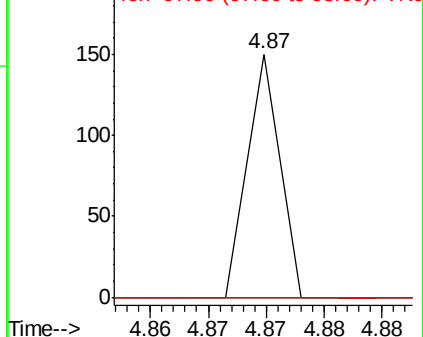


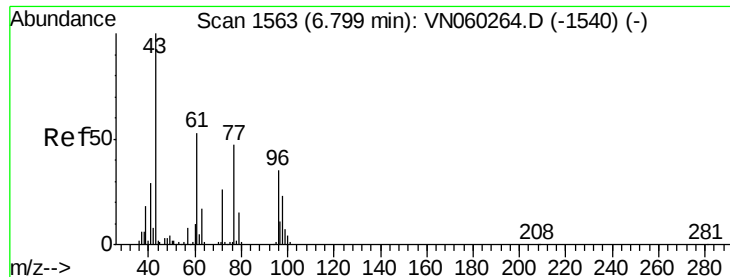
#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 4.87 min Scan# 963
Delta R.T. -0.14 min
Lab File: VN060312.D
Acq: 2 Mar 2020 15:27

Tgt Ion:	96	Resp:	29
Ion	Ratio	Lower	Upper
96	100		
61	0.0	113.8	170.8#
98	0.0	48.8	73.2#



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





#25

2-Butanone

Concen: 2.411 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :

MSVOA_N

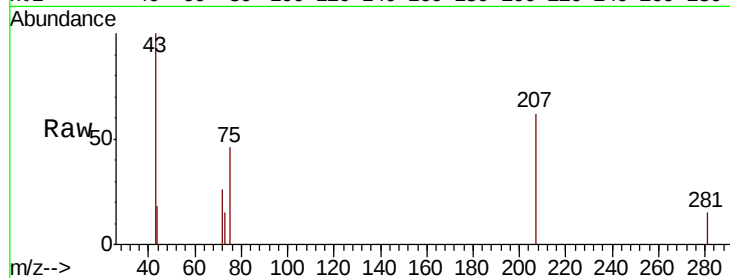
ClientSampled :

Tot Ion: 43 Resp: 3193

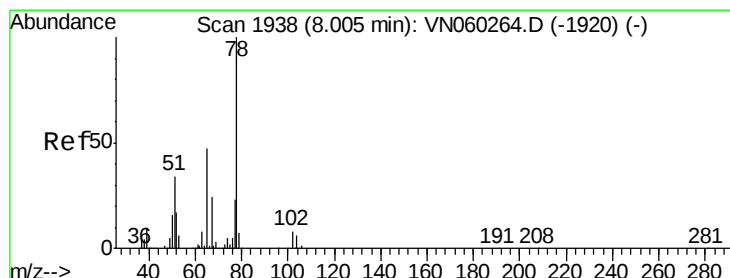
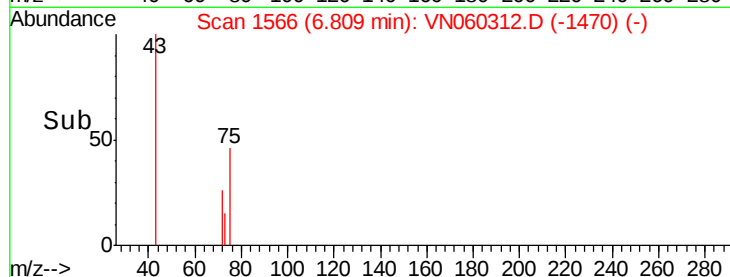
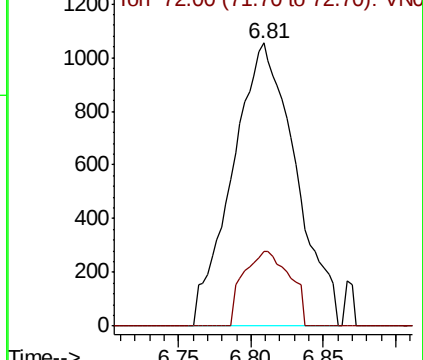
Ion Ratio Lower Upper

43 100

72 26.3 20.9 31.3



Abundance Ion 43.00 (42.70 to 43.70): VN060312.D (-1470) (-)



#33

1,2-Dichloroethane-d4

Concen: 49.857 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060312.D

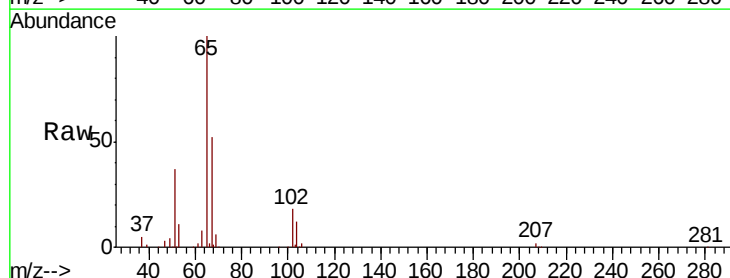
Acq: 2 Mar 2020 15:27

Tgt Ion: 65 Resp: 126577

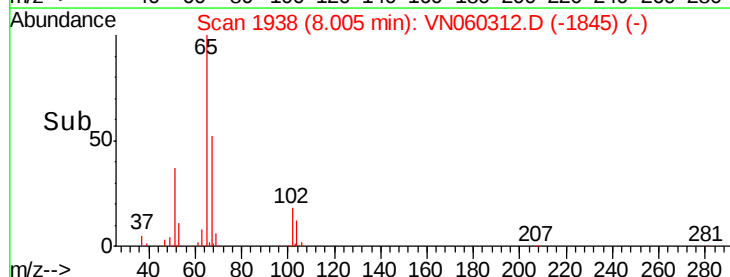
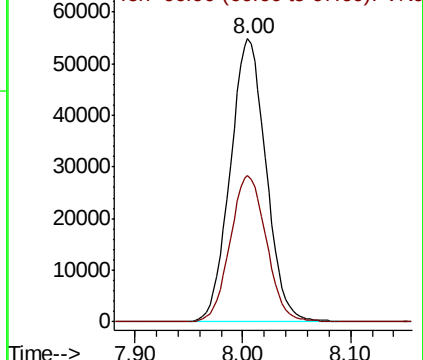
Ion Ratio Lower Upper

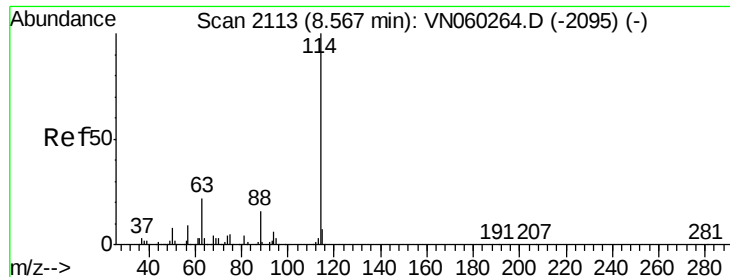
65 100

67 52.2 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN060312.D (-1845) (-)

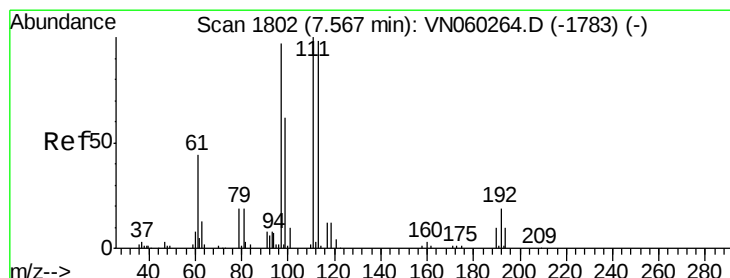
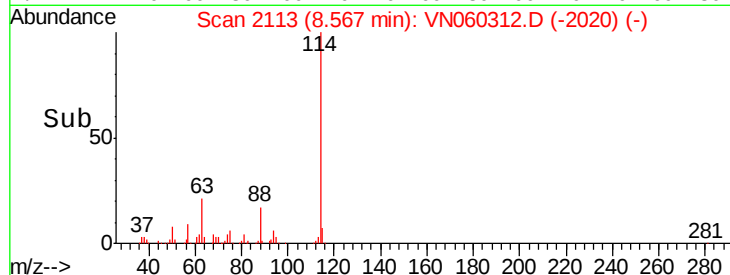
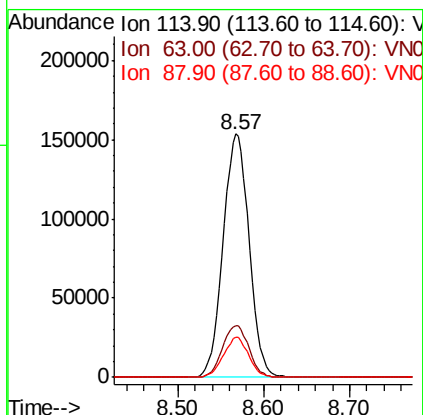
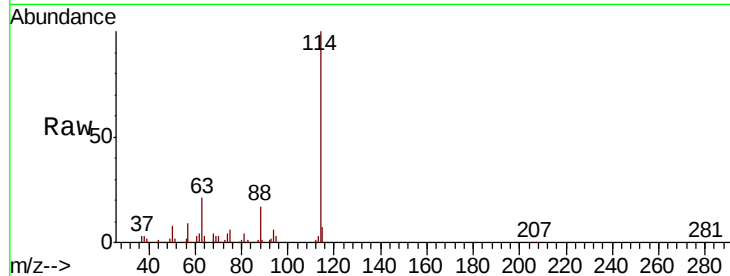




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060312.D
 Acq: 2 Mar 2020 15:27

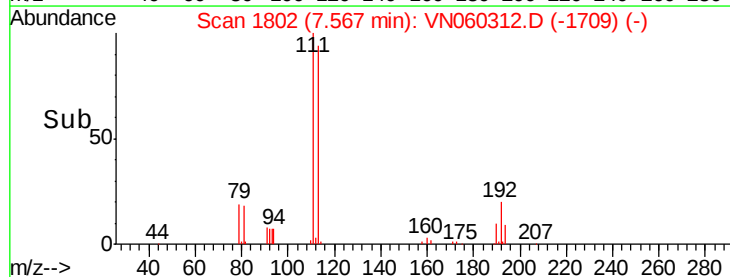
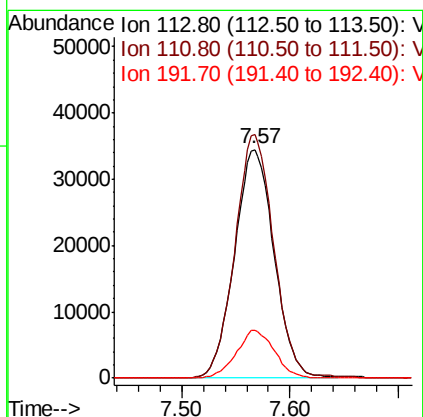
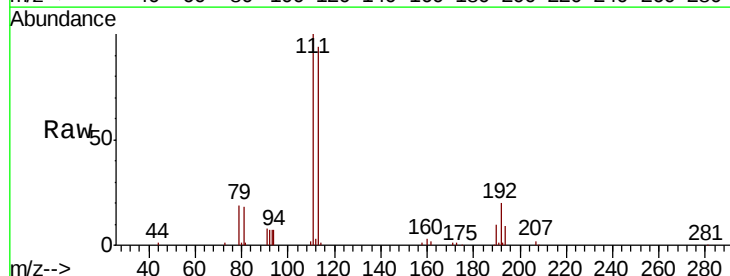
Instrument :
 MSVOA_N
 ClientSampleId :

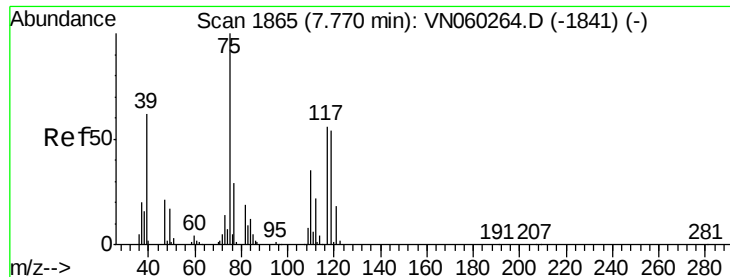
Tot Ion:114 Resp: 322530
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 43.2
 88 16.6 0.0 31.6



#35
 Dibromofluoromethane
 Concen: 58.816 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060312.D
 Acq: 2 Mar 2020 15:27

Tgt Ion:113 Resp: 88052
 Ion Ratio Lower Upper
 113 100
 111 104.7 82.4 123.6
 192 20.0 16.2 24.2





#36

1,1-Dichloropropene

Concen: 4.919 ug/l

RT: 7.64 min Scan# 1824

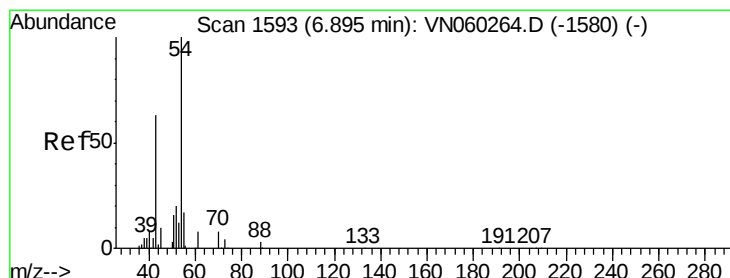
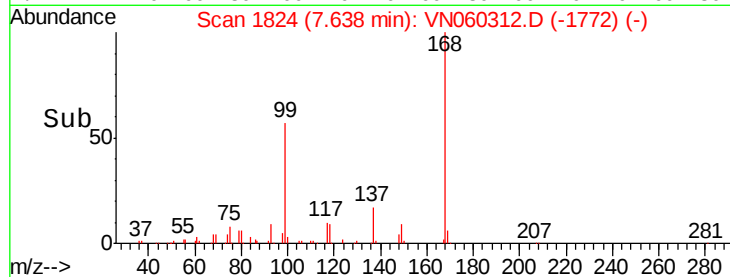
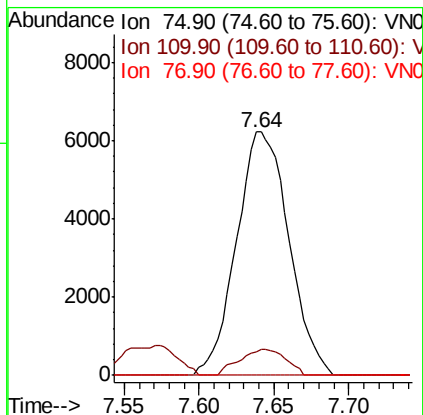
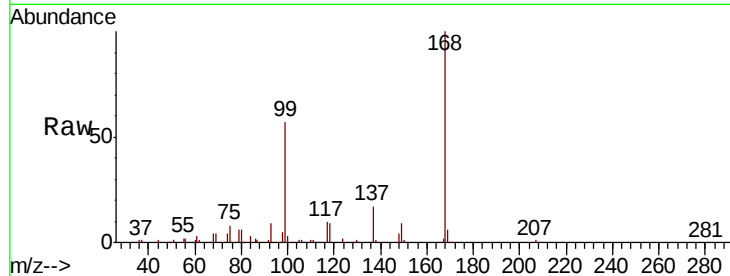
Delta R.T. -0.13 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	17.3	52.0#
77	0.0	24.2	36.2#



#37

Ethyl Acetate

Concen: 1.097 ug/l

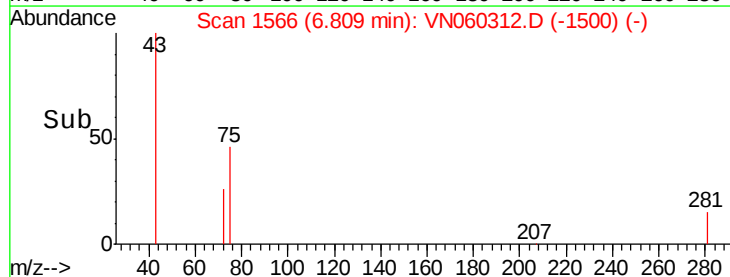
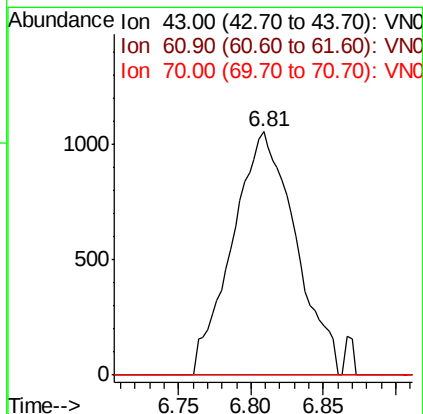
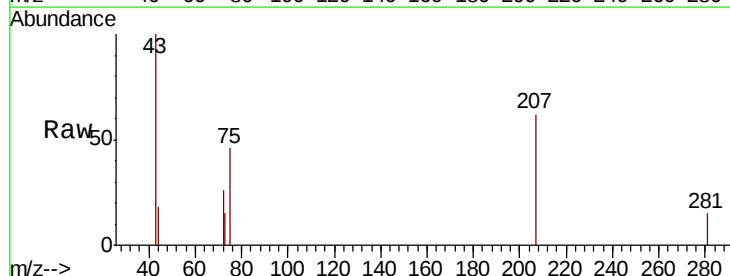
RT: 6.81 min Scan# 1566

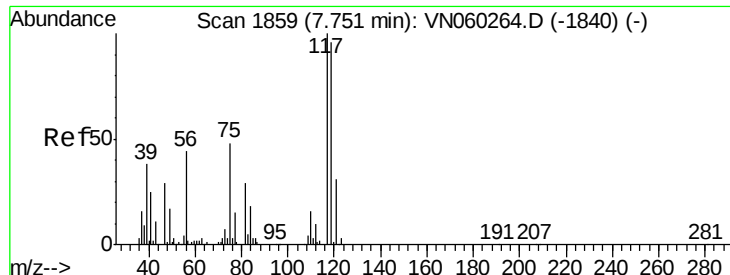
Delta R.T. -0.09 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.1	16.7#
70	0.0	8.4	12.6#





#38

Carbon Tetrachloride

Concen: 6.417 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

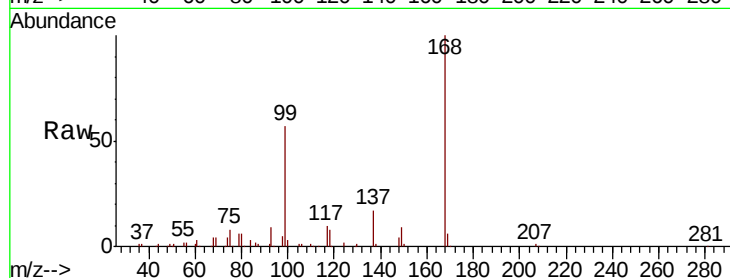
Tot Ion:117 Resp: 19205

Ion Ratio Lower Upper

117 100

119 5.1 76.7 115.1#

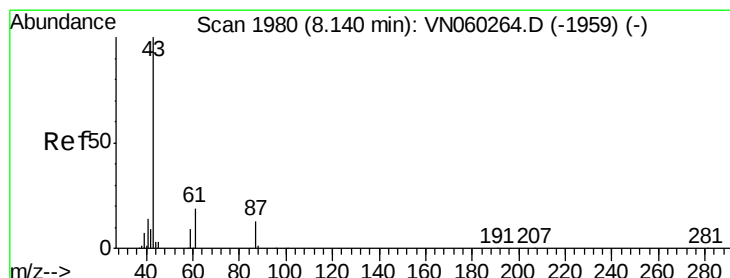
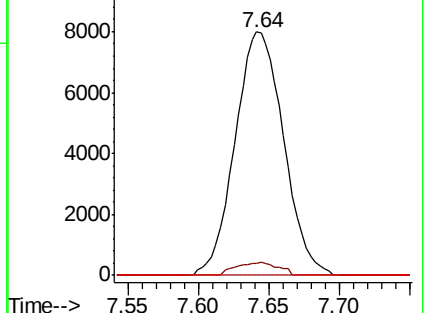
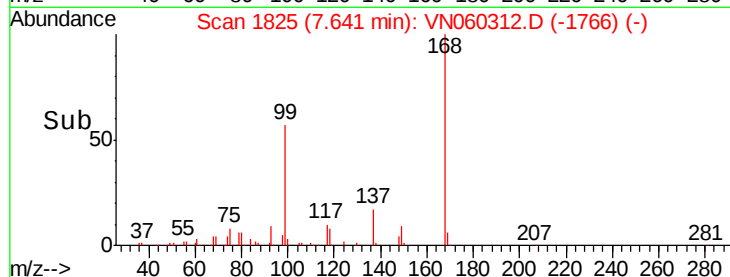
121 0.0 24.5 36.7#



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: 9.594 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

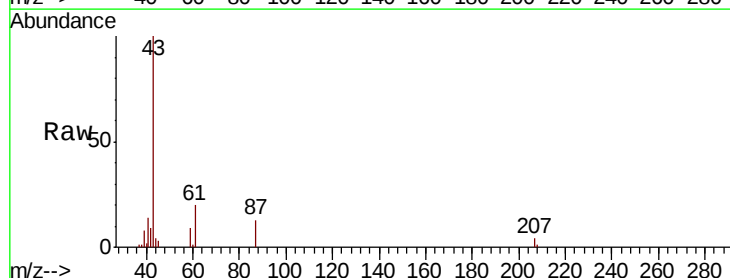
Tgt Ion: 43 Resp: 48884

Ion Ratio Lower Upper

43 100

61 19.7 20.9 31.3#

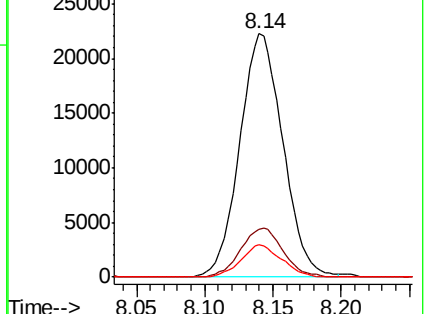
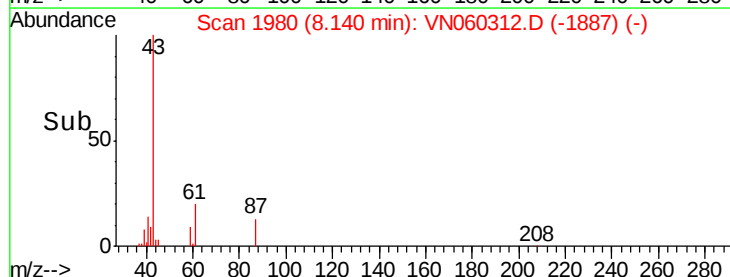
87 12.4 10.6 16.0

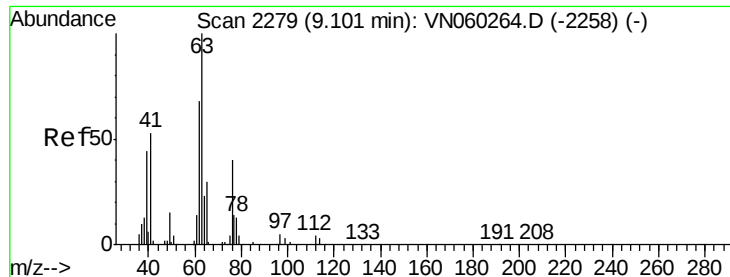


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

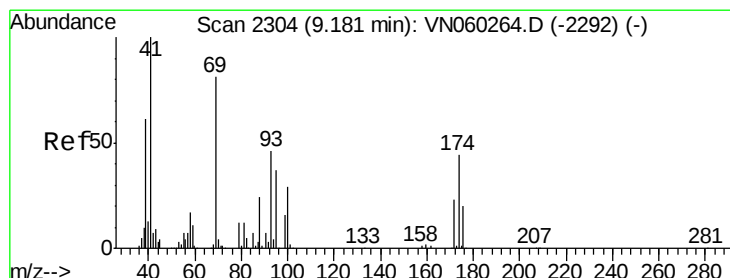
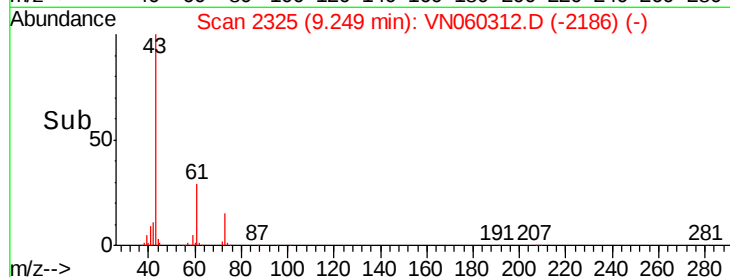
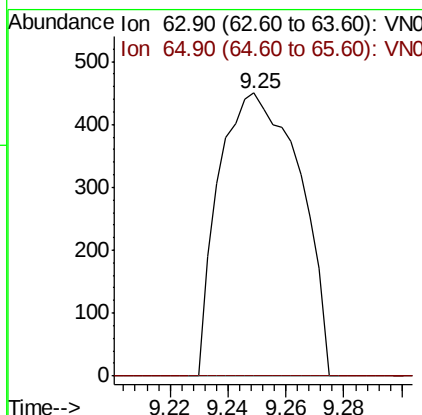
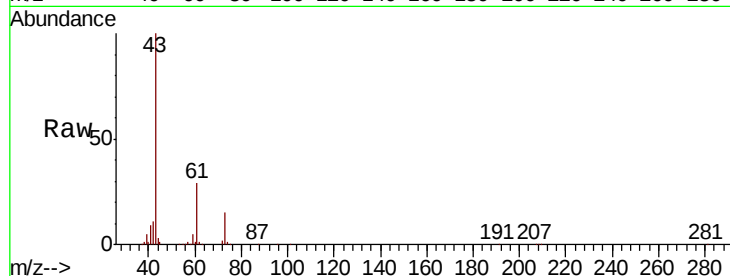




#45
 1,2-Dichloropropane
 Concen: 0.372 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN060312.D
 Acq: 2 Mar 2020 15:27

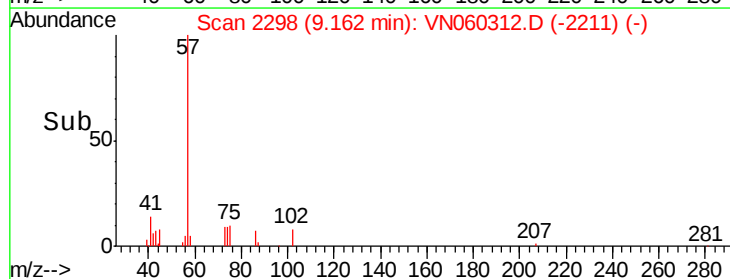
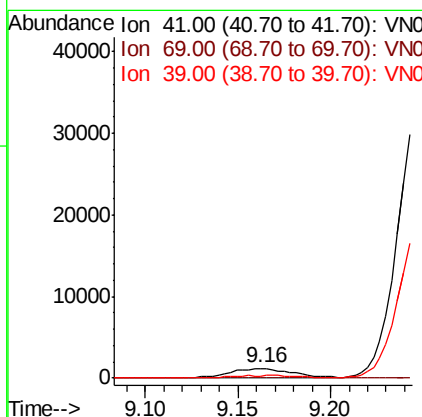
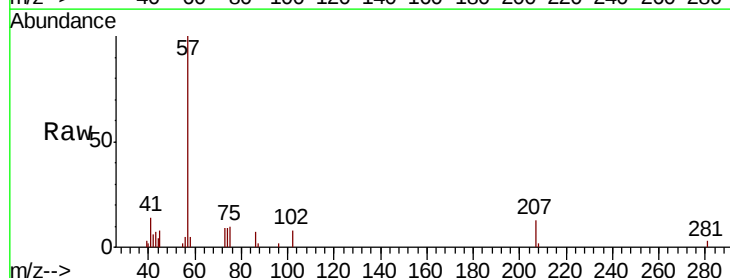
Instrument :
 MSVOA_N
 ClientSampleId :

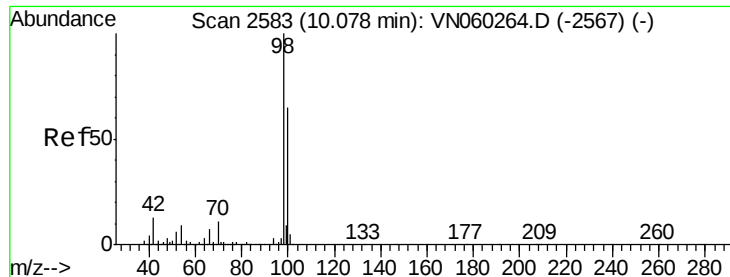
Tot Ion: 63 Resp: 869
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.187 ug/l
 RT: 9.16 min Scan# 2298
 Delta R.T. -0.02 min
 Lab File: VN060312.D
 Acq: 2 Mar 2020 15:27

Tgt Ion: 41 Resp: 2758
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 51.928 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :

MSVOA_N

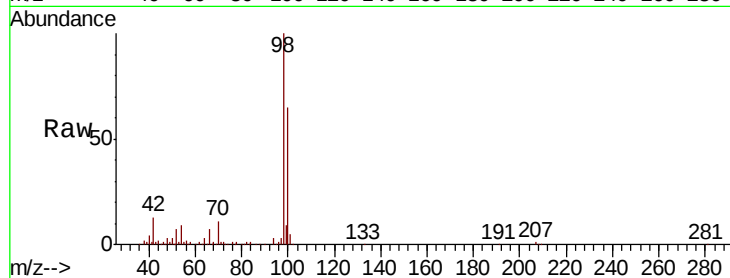
ClientSampled :

Tot Ion: 98 Resp: 393454

Ion Ratio Lower Upper

98 100

100 65.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

250000

200000

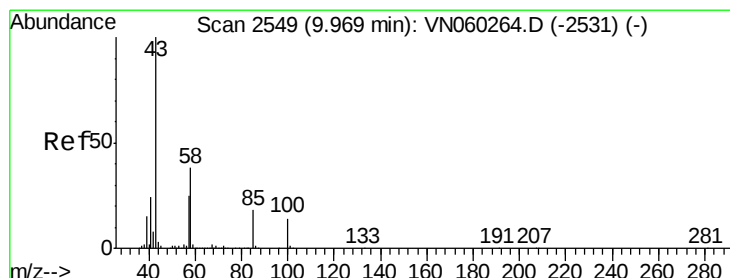
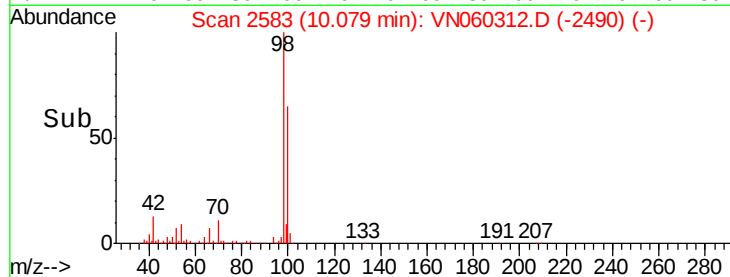
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.427 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. 0.00 min

Lab File: VN060312.D

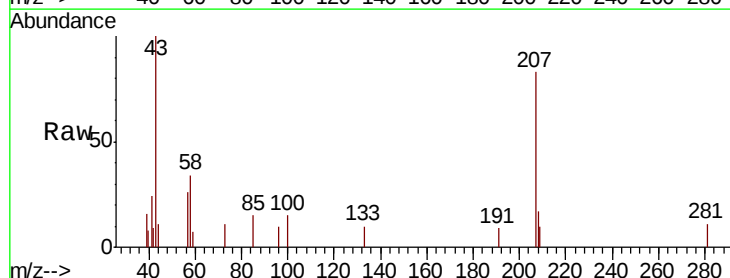
Acq: 2 Mar 2020 15:27

Tgt Ion: 43 Resp: 4124

Ion Ratio Lower Upper

43 100

58 30.2 30.9 46.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

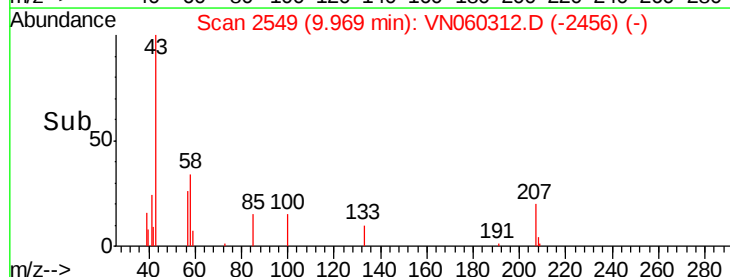
15000

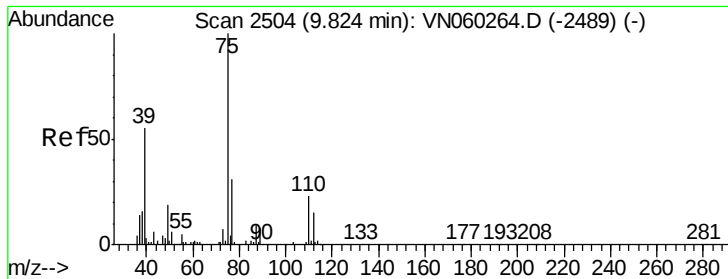
10000

5000

0

Time-->



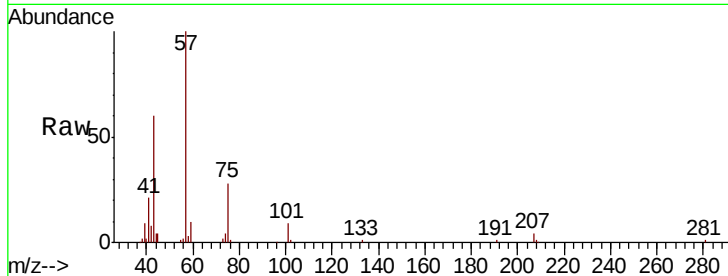


#54

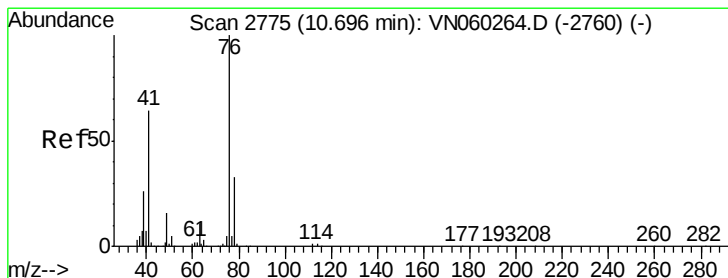
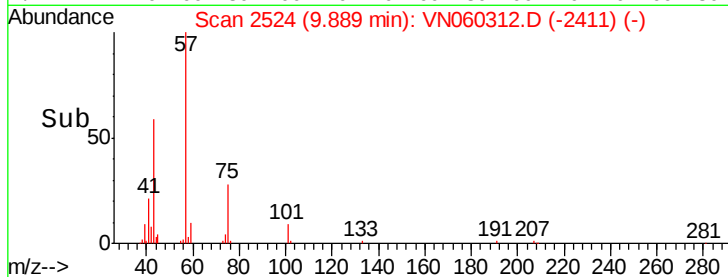
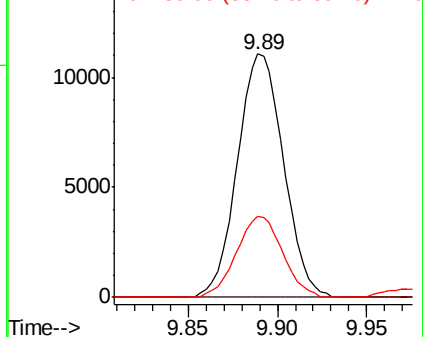
cis-1,3-Dichloropropene
 Concen: 5.099 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060312.D
 Acq: 2 Mar 2020 15:27

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.8	37.2#
39	33.1	43.8	65.8#



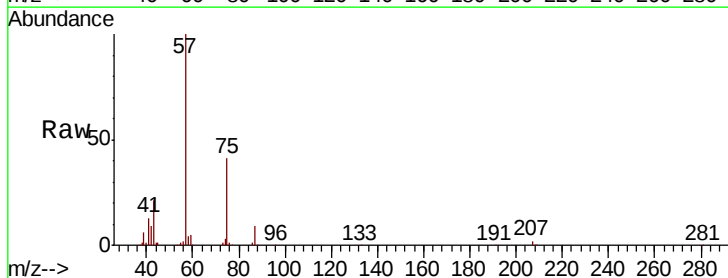
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



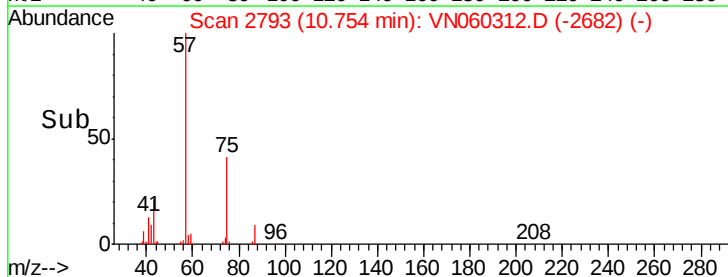
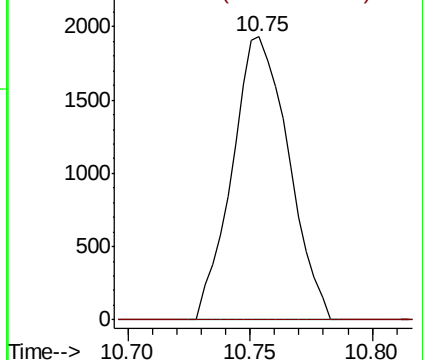
#57

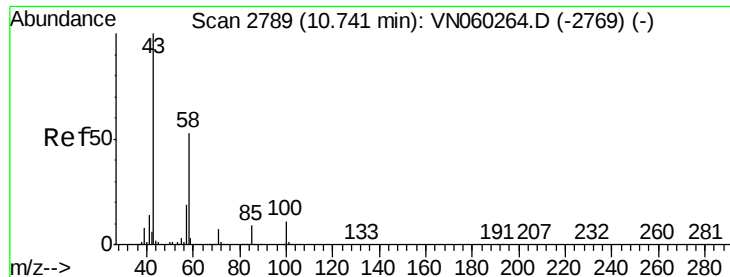
1,3-Dichloropropane
 Concen: 0.842 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN060312.D
 Acq: 2 Mar 2020 15:27

Tgt 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

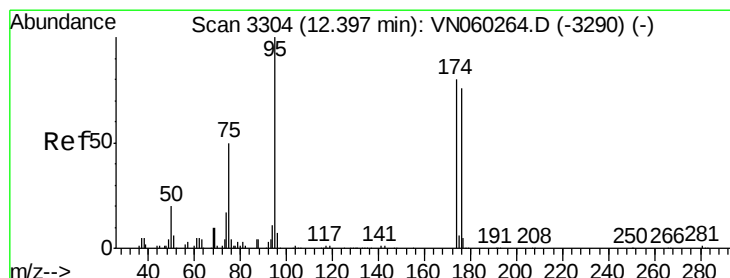
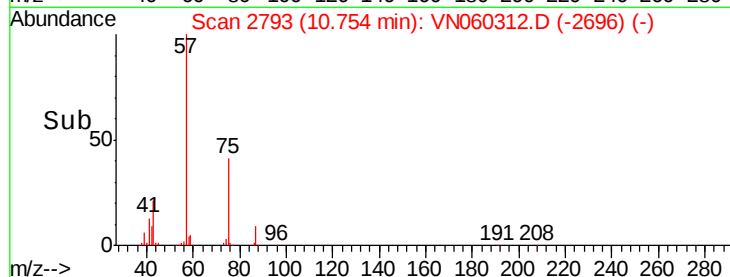
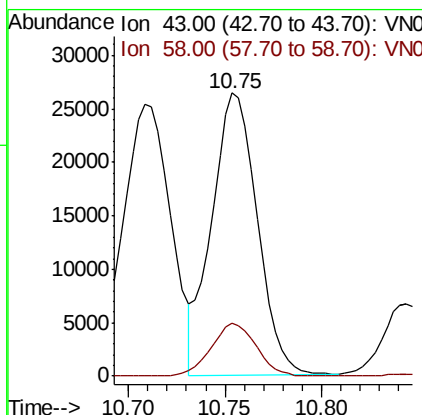
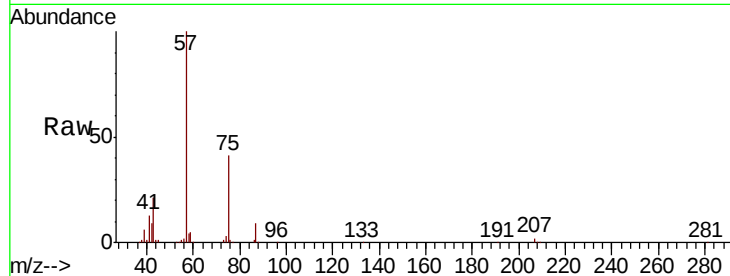




#59
2-Hexanone
Concen: 20.391 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060312.D
Acq: 2 Mar 2020 15:27

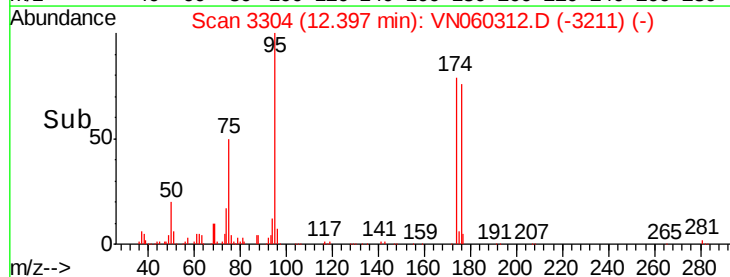
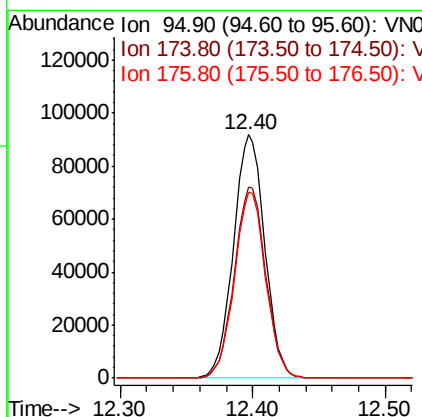
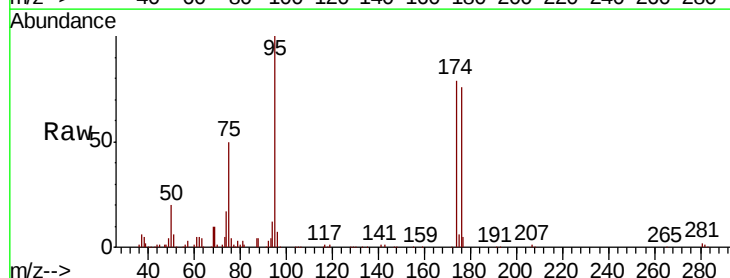
Instrument :
MSVOA_N
ClientSampleId :

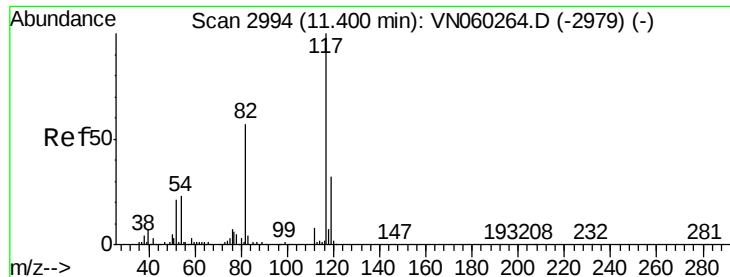
Tot Ion: 43 Resp: 43254
Ion Ratio Lower Upper
43 100
58 18.4 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.345 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060312.D
Acq: 2 Mar 2020 15:27

Tgt Ion: 95 Resp: 150347
Ion Ratio Lower Upper
95 100
174 78.7 0.0 159.2
176 76.1 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: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :

MSVOA_N

ClientSampled :

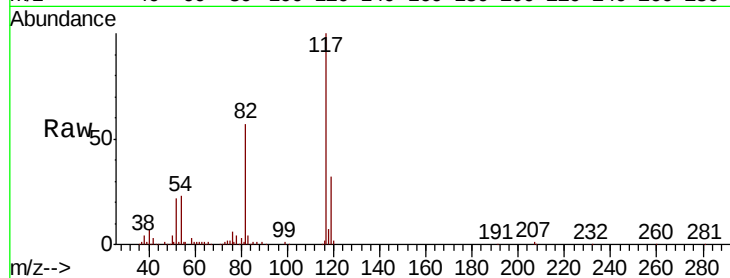
Tot Ion:117 Resp: 301081

Ion Ratio Lower Upper

117 100

82 57.0 45.8 68.6

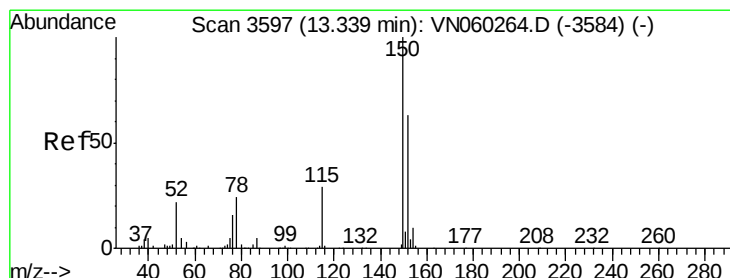
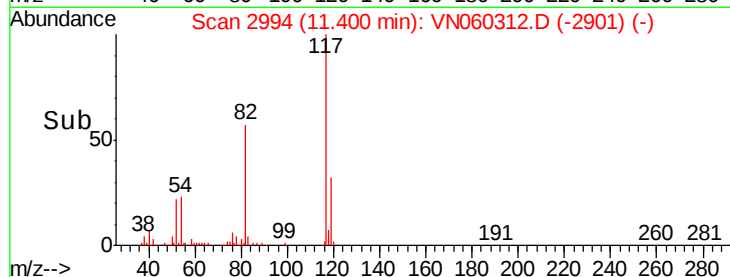
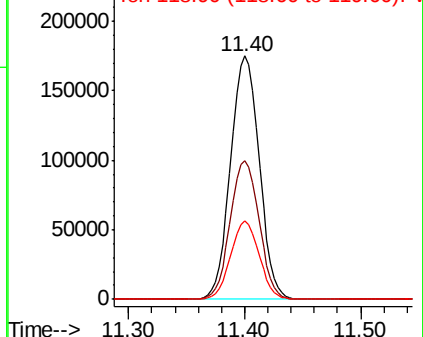
119 32.1 25.8 38.8



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: VN060312.D

Acq: 2 Mar 2020 15:27

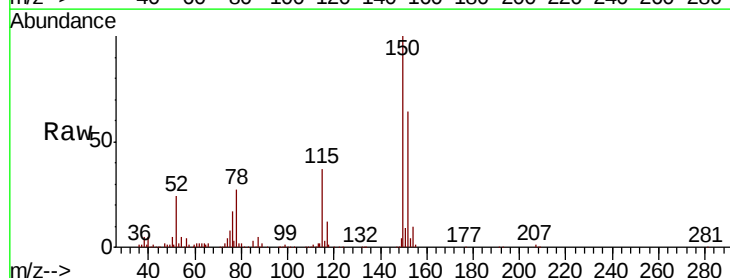
Tgt Ion:152 Resp: 143400

Ion Ratio Lower Upper

152 100

115 59.0 30.0 90.0

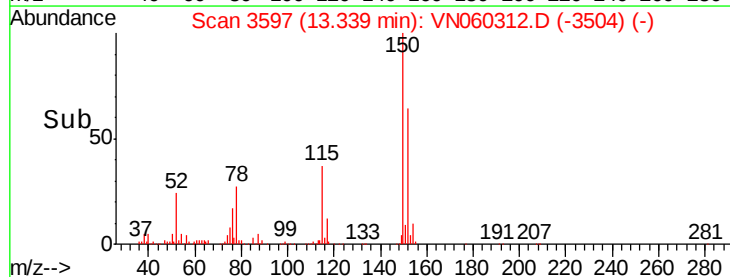
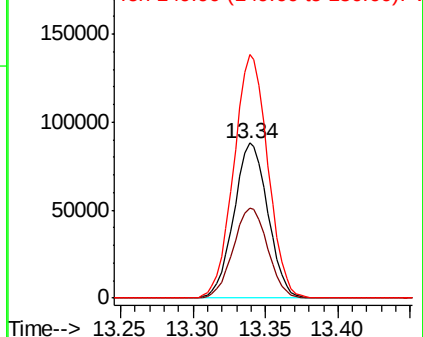
150 157.7 0.0 349.6

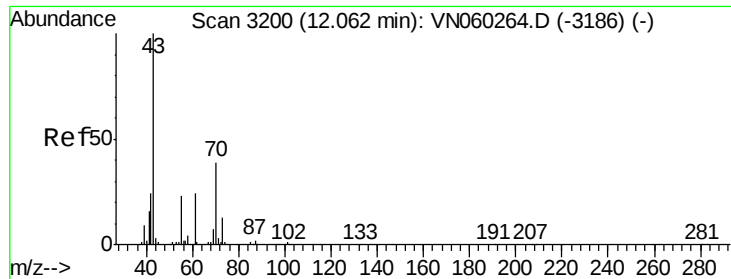


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.437 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2030

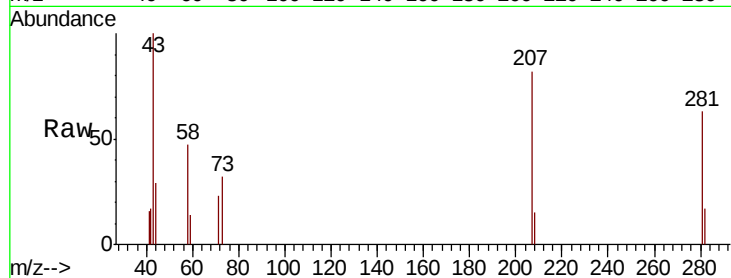
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

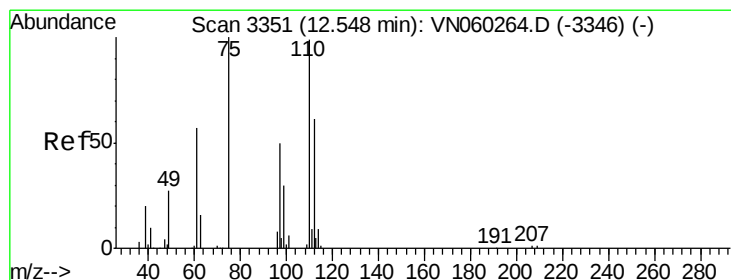
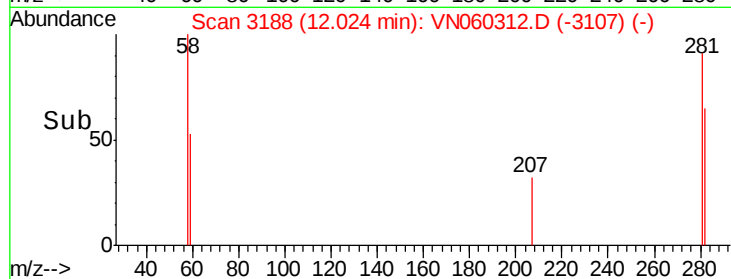
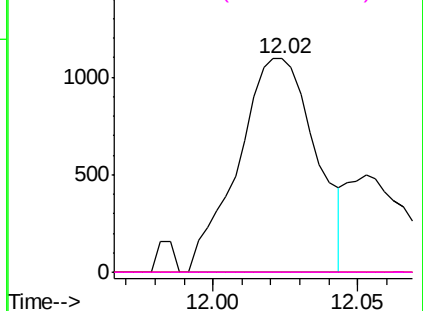


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.568 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060312.D

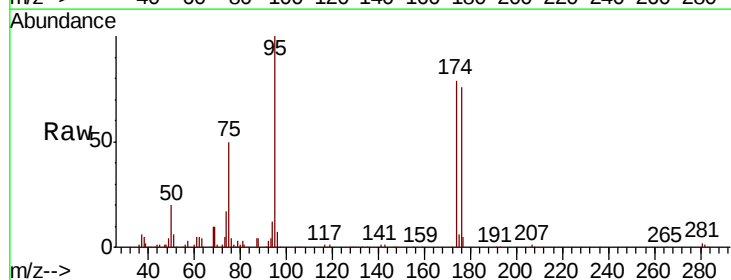
Acq: 2 Mar 2020 15:27

Tgt Ion: 75 Resp: 77297

Ion Ratio Lower Upper

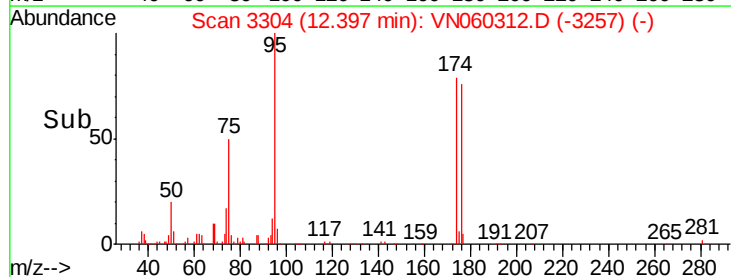
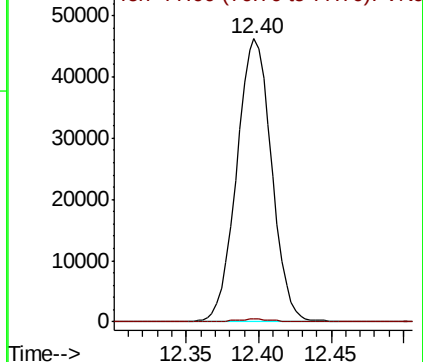
75 100

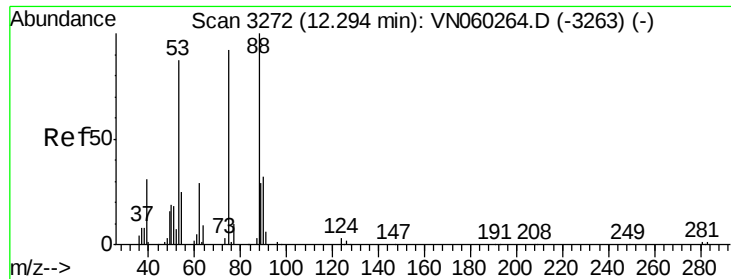
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

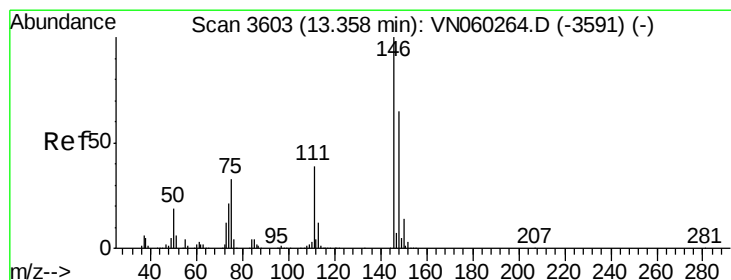
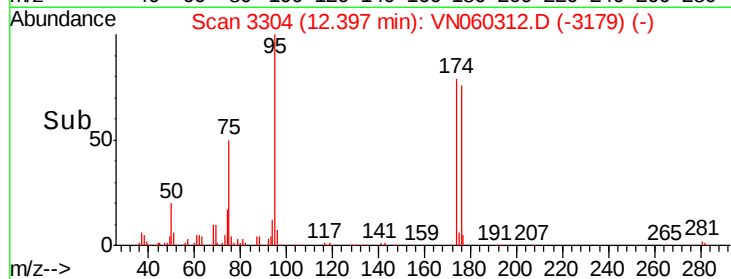
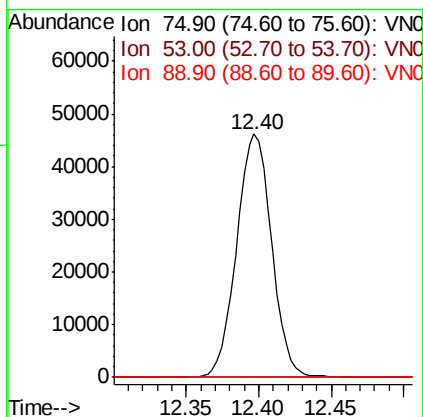
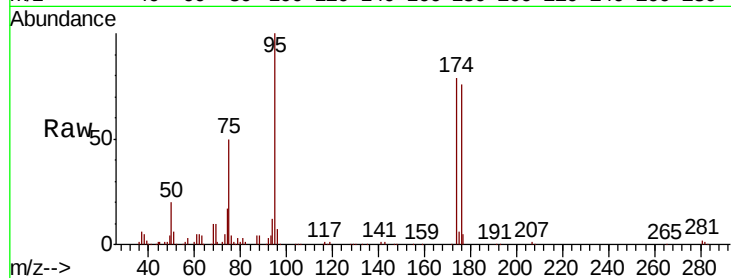




#81
trans-1,4-Dichloro-2-butene
Concen: 67.820 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060312.D
Acq: 2 Mar 2020 15:27

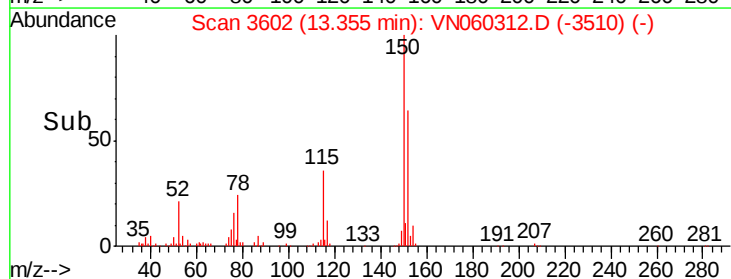
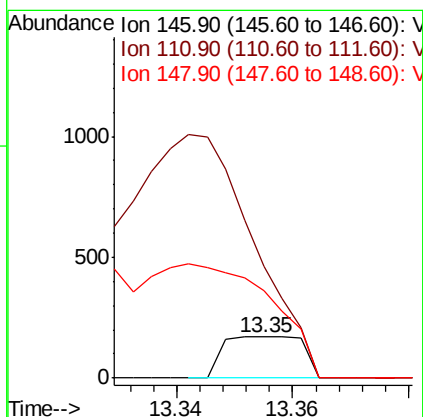
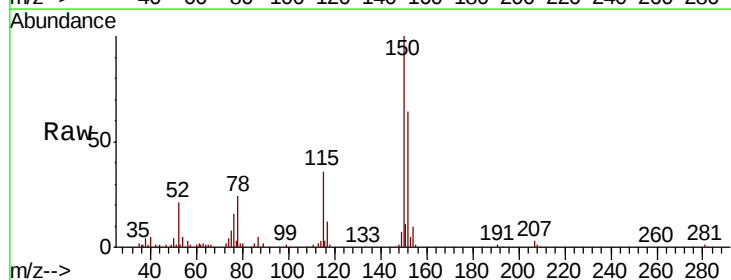
Instrument :
MSVOA_N
ClientSampled :

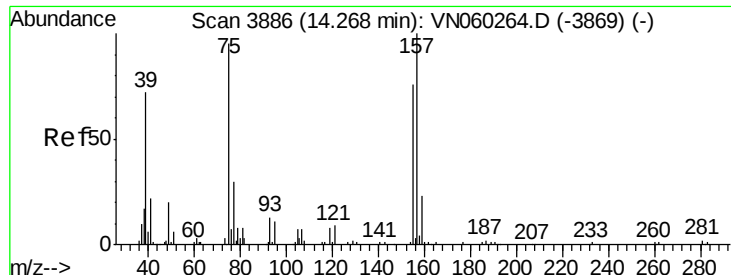
Tot Ion: 75 Resp: 77297
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 57.1 85.7#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.35 min Scan# 3602
Delta R.T. -0.00 min
Lab File: VN060312.D
Acq: 2 Mar 2020 15:27

Tgt Ion: 146 Resp: 161
Ion Ratio Lower Upper
146 100
111 1052.2 19.8 59.4#
148 539.1 32.3 96.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.705 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN060312.D

Acq: 2 Mar 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

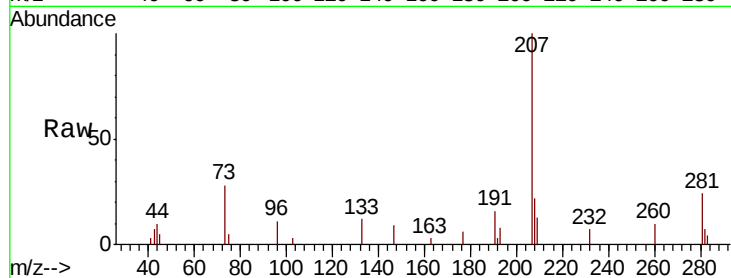
Tot Ion: 75 Resp: 461

Ion Ratio Lower Upper

75 100

155 0.0 40.4 121.2#

157 0.0 52.5 157.5#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

