

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060292.D
 Acq On : 28 Feb 2020 18:05
 Operator : JC/MD
 Sample : L1718-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

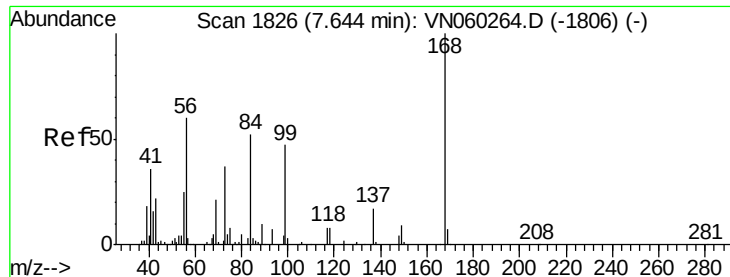
Quant Time: Feb 29 00:39:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	209087	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	340571	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	319345	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	152770	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	133688	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
35) Dibromofluoromethane	7.56	113	96081	60.78	ug/l	0.00
Spiked Amount			Recovery	=	121.56%	
50) Toluene-d8	10.08	98	420039	52.50	ug/l	0.00
Spiked Amount			Recovery	=	105.00%	
62) 4-Bromofluorobenzene	12.40	95	158292	52.19	ug/l	0.00
Spiked Amount			Recovery	=	104.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.75	96	62	Below Cal	#	1
16) Acetone	3.79	43	8709	10.053	ug/l	98
18) Methyl Acetate	4.29	43	1265	0.438	ug/l #	67
20) Methylene Chloride	4.51	84	5210	2.190	ug/l	98
21) trans-1,2-Dichloroethene	5.01	96	62	Below Cal	#	1
25) 2-Butanone	6.81	43	1651	1.180	ug/l #	90
29) Tetrahydrofuran	7.19	42	198	0.203	ug/l #	33
31) Cyclohexane	7.64	56	4572	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	16153	4.977	ug/l #	50
37) Ethyl Acetate	6.81	43	1651	0.537	ug/l #	68
38) Carbon Tetrachloride	7.64	117	20124	6.368	ug/l #	16
43) Isopropyl Acetate	8.14	43	56598	10.519	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	935	0.379	ug/l #	44
48) Methyl methacrylate	9.16	41	2964	1.208	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4800	1.573	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	24240	5.857	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	4003	1.029	ug/l #	42
59) 2-Hexanone	10.75	43	56577	25.259	ug/l #	52
74) N-amyl acetate	12.02	43	2510	0.507	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	82615	24.648	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	82615	68.040	ug/l #	8
87) 1,3-Dichlorobenzene	13.28	146	30	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	31	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	14.26	75	368	0.528	ug/l #	3
95) Naphthalene	15.13	128	1581	Below Cal	#	77

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060292.D

Acq: 28 Feb 2020 18:05

Instrument :

MSVOA_N

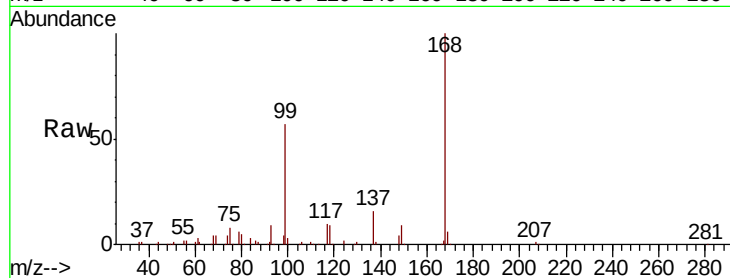
ClientSampleId :

Tot Ion:168 Resp: 209087

Ion Ratio Lower Upper

168 100

99 56.9 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

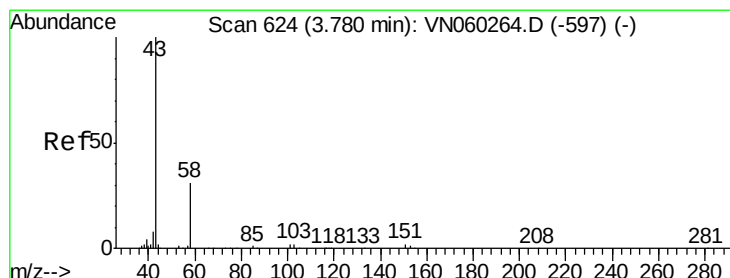
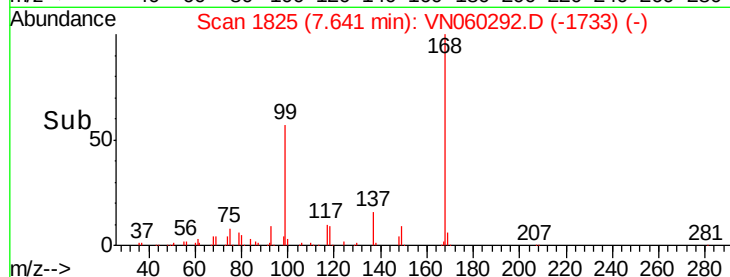
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 10.053 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060292.D

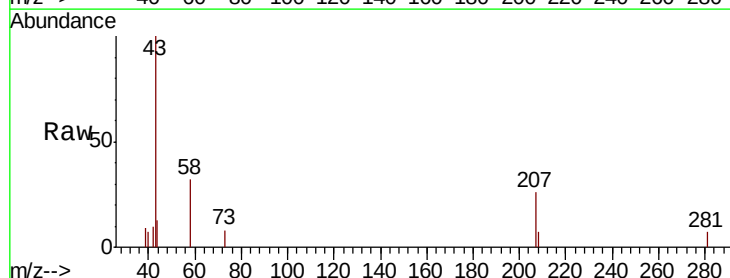
Acq: 28 Feb 2020 18:05

Tgt Ion: 43 Resp: 8709

Ion Ratio Lower Upper

43 100

58 32.0 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

3000

2500

2000

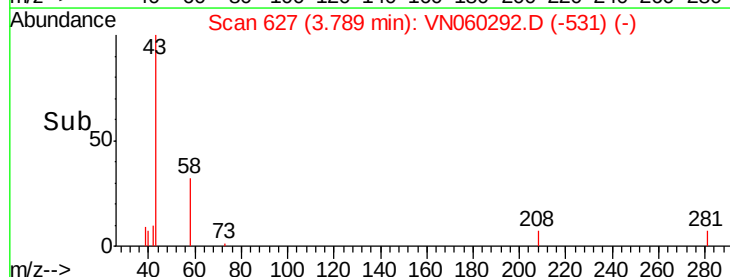
1500

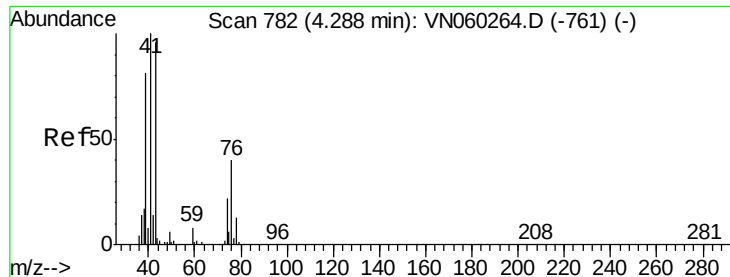
1000

500

0

Time-->

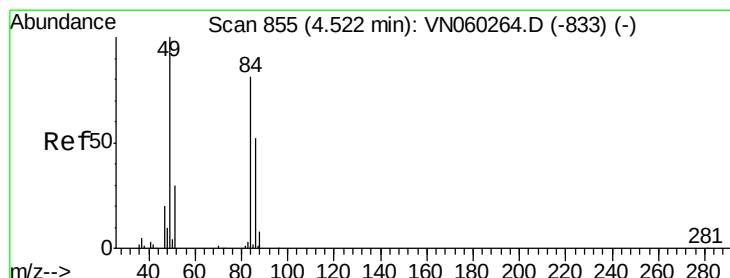
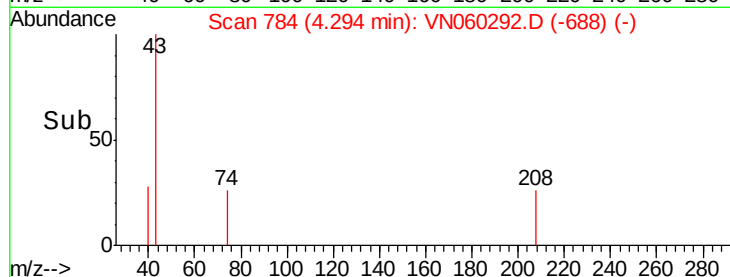
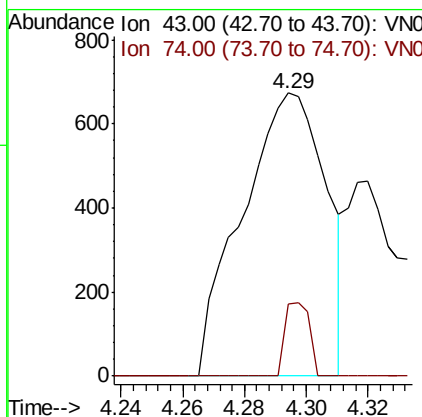
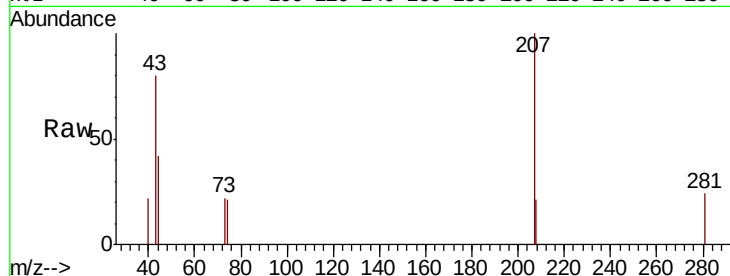




#18
Methyl Acetate
Concen: 0.438 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

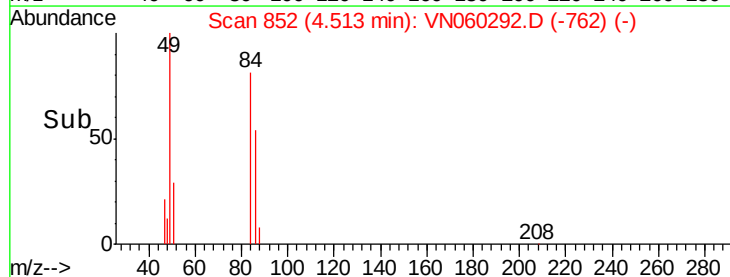
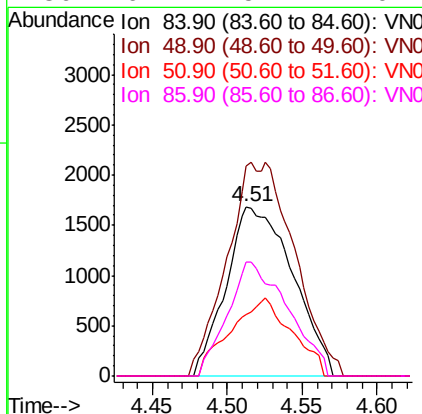
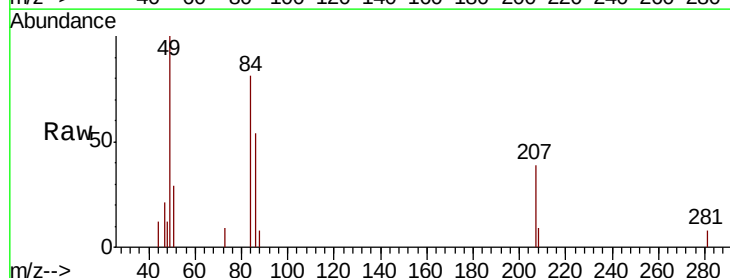
Instrument :
MSVOA_N
ClientSampled :

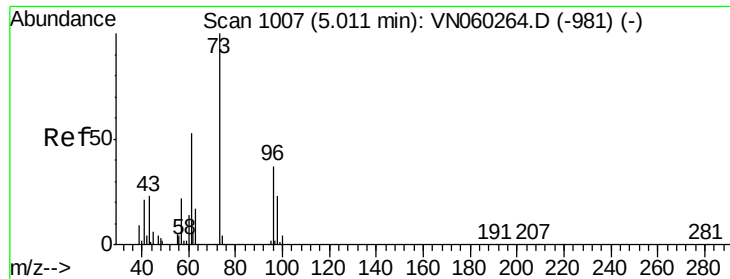
Tot Ion: 43 Resp: 1265
Ion Ratio Lower Upper
43 100
74 7.6 18.8 28.2#



#20
Methylene Chloride
Concen: 2.190 ug/l
RT: 4.51 min Scan# 852
Delta R.T. -0.01 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

Tgt Ion: 84 Resp: 5210
Ion Ratio Lower Upper
84 100
49 123.9 99.3 148.9
51 36.4 30.1 45.1
86 67.1 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.01 min Scan# 1007

Delta R.T. 0.00 min

Lab File: VN060292.D

Acq: 28 Feb 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

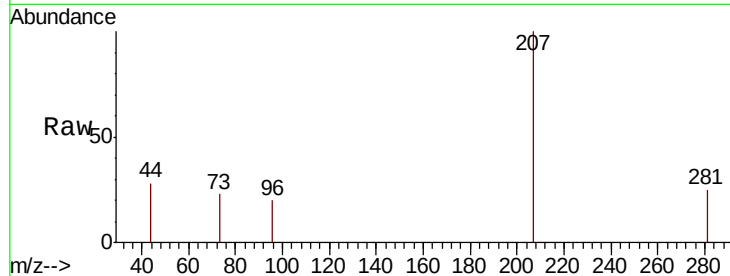
Tot Ion: 96 Resp: 62

Ion Ratio Lower Upper

96 100

61 0.0 113.8 170.8#

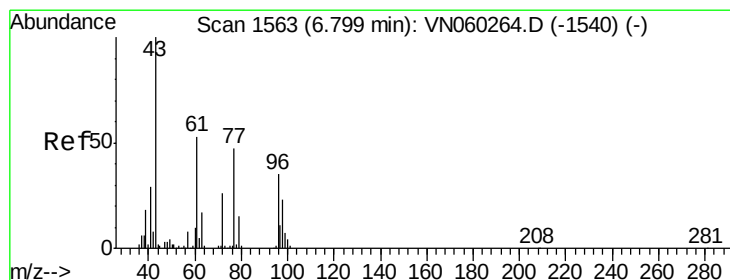
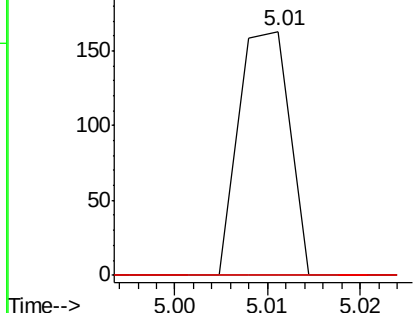
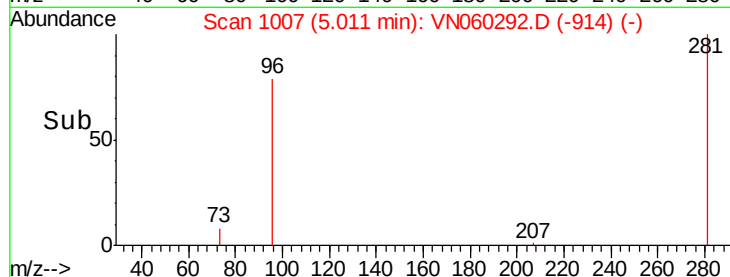
98 0.0 48.8 73.2#



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: 1.180 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060292.D

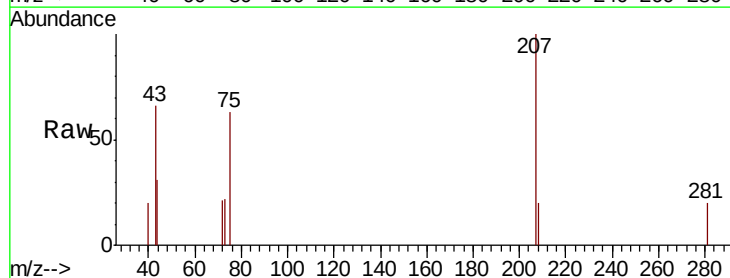
Acq: 28 Feb 2020 18:05

Tgt Ion: 43 Resp: 1651

Ion Ratio Lower Upper

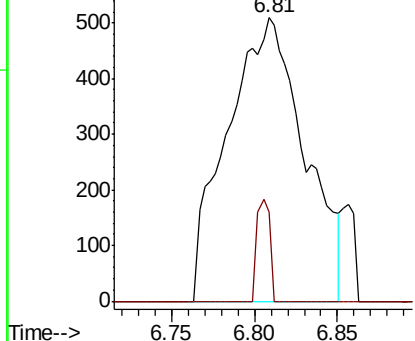
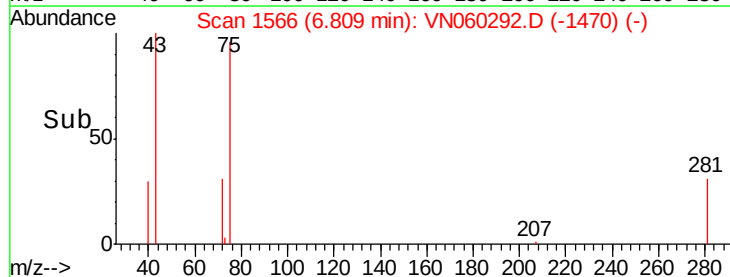
43 100

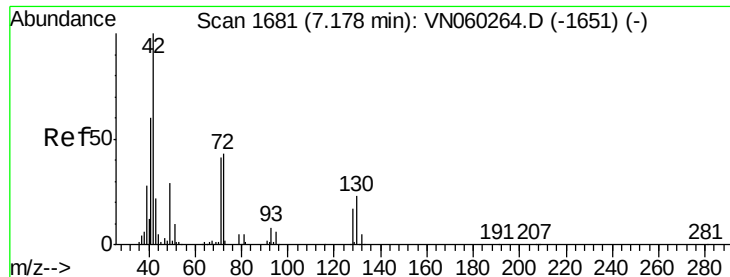
72 31.4 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#29

Tetrahydrofuran

Concen: 0.203 ug/l

RT: 7.19 min Scan# 1685

Delta R.T. 0.01 min

Lab File: VN060292.D

Acq: 28 Feb 2020 18:05

Instrument :

MSVOA_N

ClientSampled :

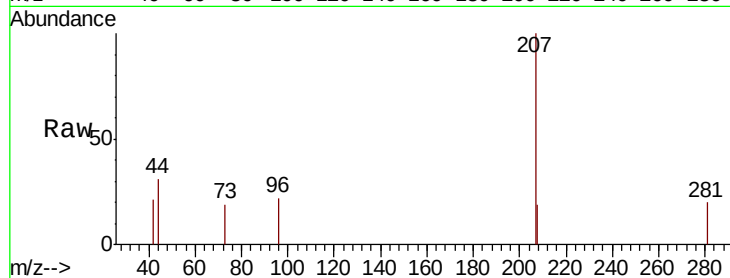
Tot Ion: 42 Resp: 198

Ion Ratio Lower Upper

42 100

72 0.0 34.6 52.0#

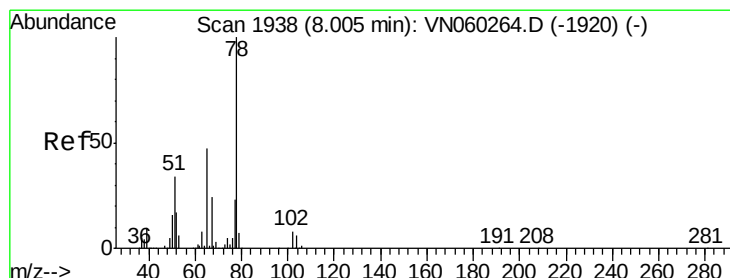
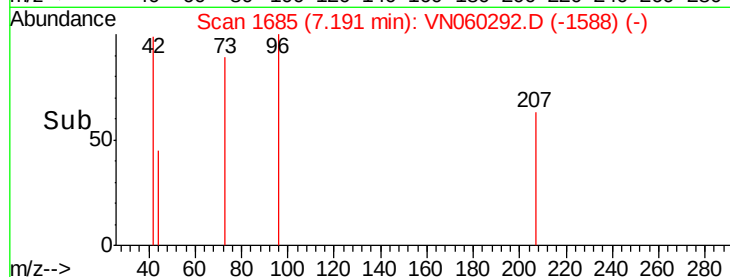
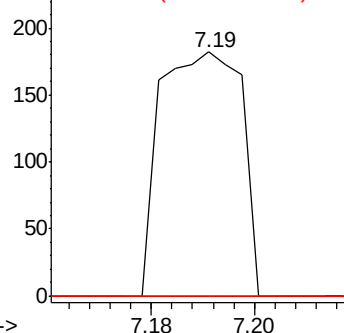
71 0.0 32.9 49.3#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 49.835 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. 0.00 min

Lab File: VN060292.D

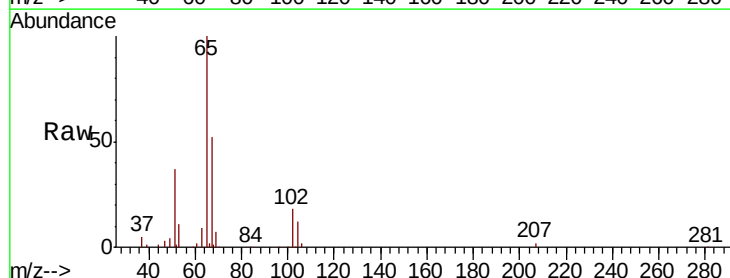
Acq: 28 Feb 2020 18:05

Tgt Ion: 65 Resp: 133688

Ion Ratio Lower Upper

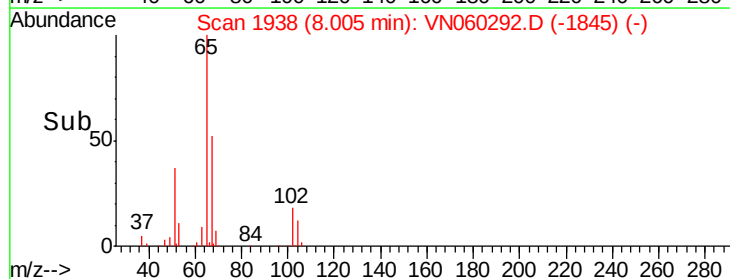
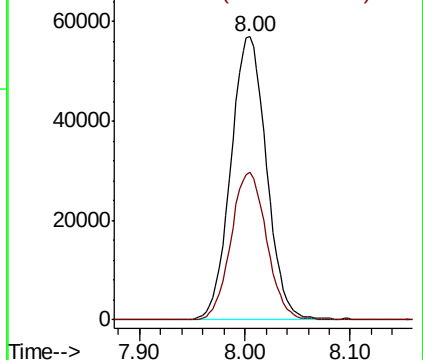
65 100

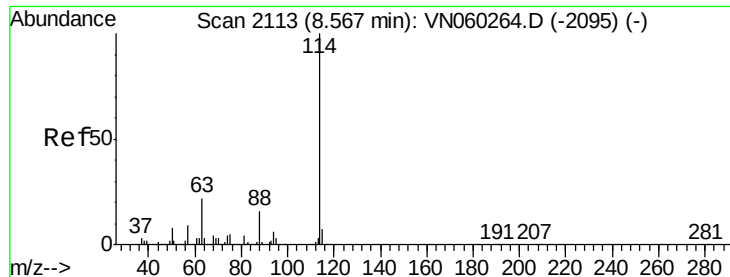
67 52.0 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

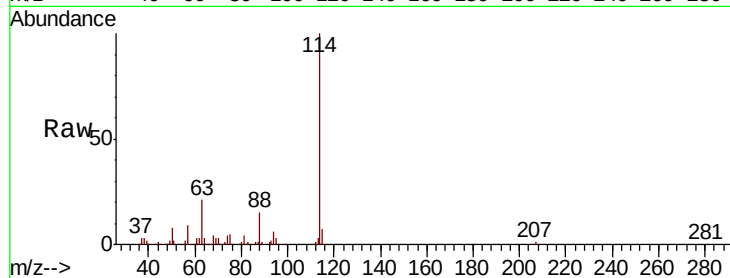




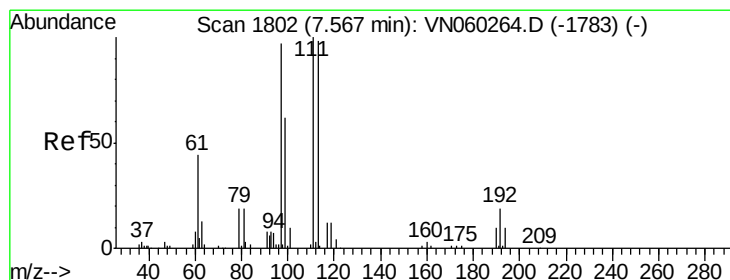
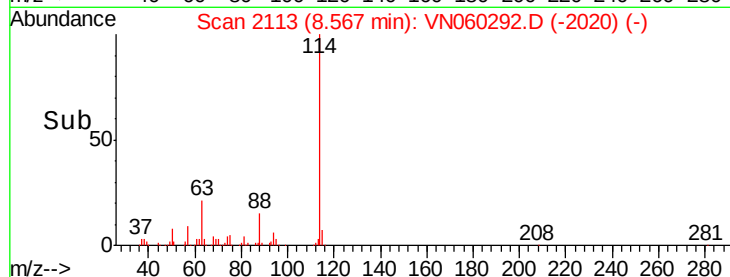
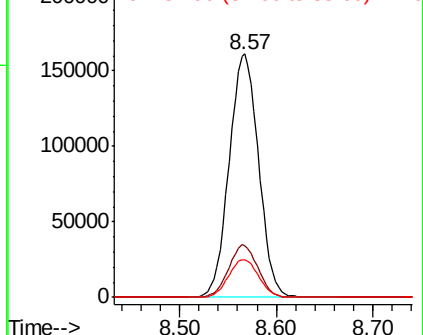
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060292.D
 Acq: 28 Feb 2020 18:05

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 340571
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 43.2
 88 15.5 0.0 31.6

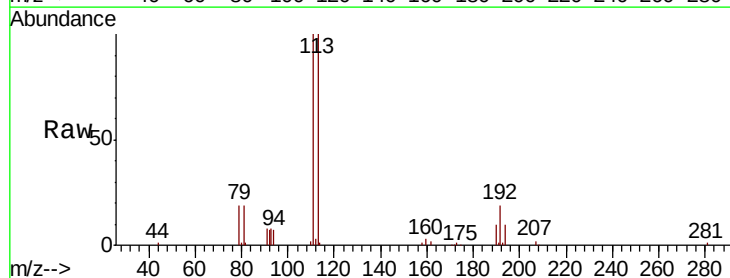


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

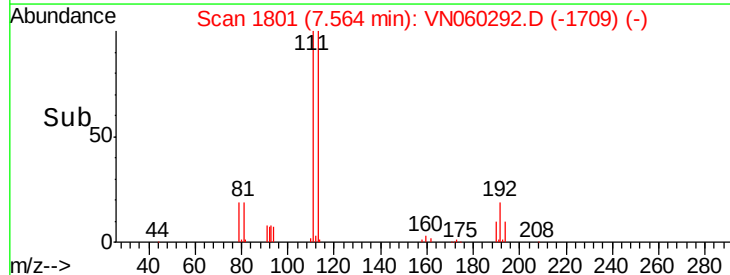
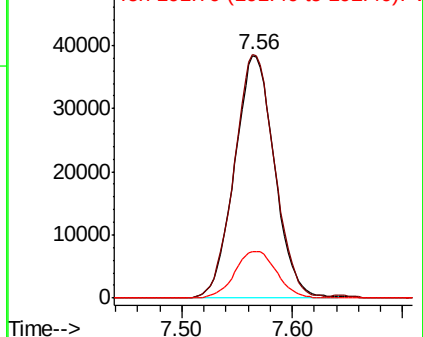


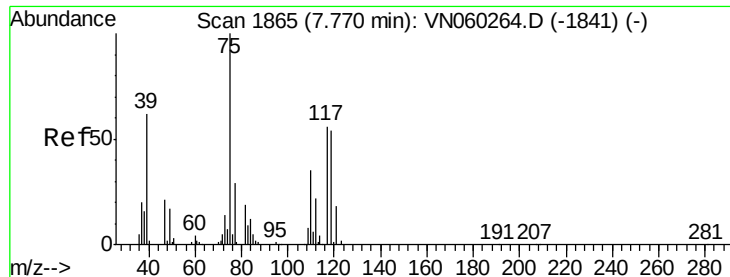
#35
 Dibromofluoromethane
 Concen: 60.779 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN060292.D
 Acq: 28 Feb 2020 18:05

Tgt Ion:113 Resp: 96081
 Ion Ratio Lower Upper
 113 100
 111 101.2 82.4 123.6
 192 20.2 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

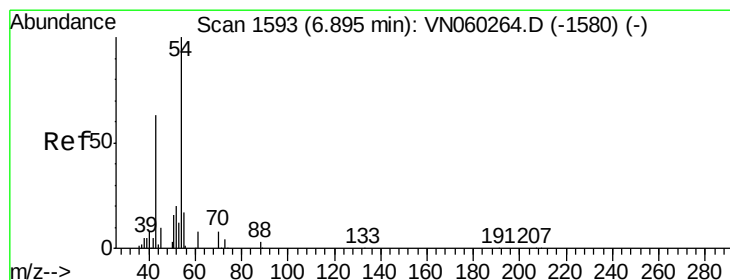
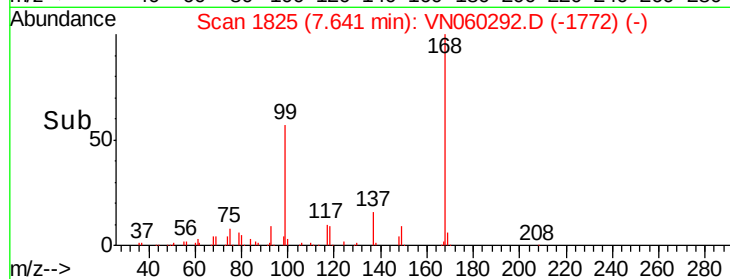
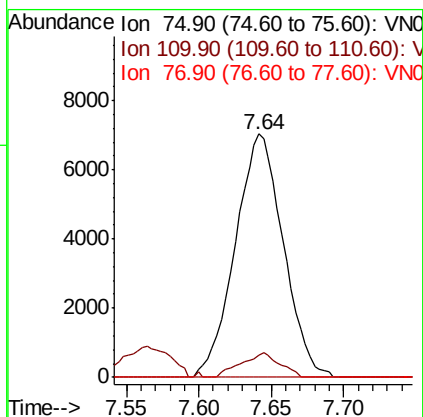
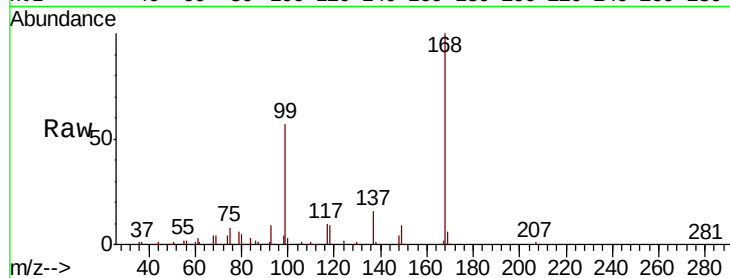




#36
 1,1-Dichloropropene
 Concen: 4.977 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060292.D
 Acq: 28 Feb 2020 18:05

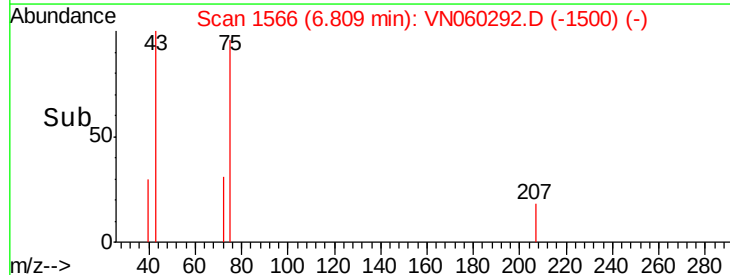
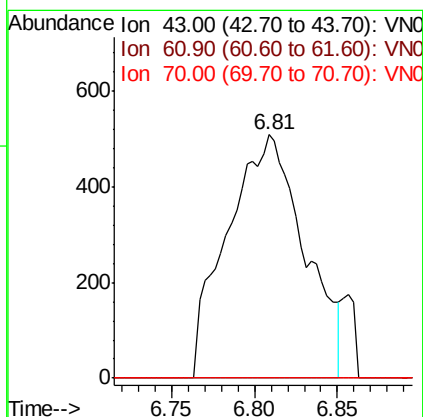
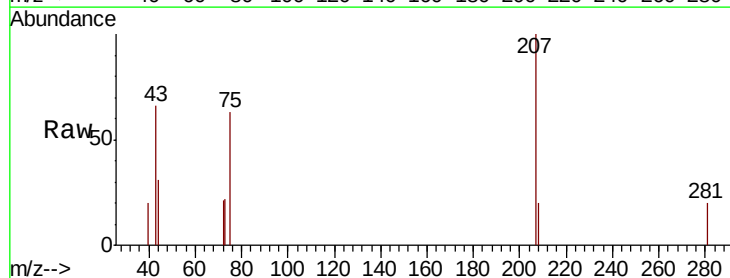
Instrument :
 MSVOA_N
 ClientSampled :

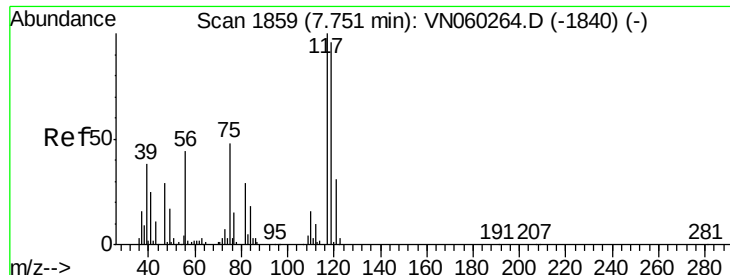
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.3	52.0#
77	0.0	24.2	36.2#



#37
 Ethyl Acetate
 Concen: 0.537 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. -0.09 min
 Lab File: VN060292.D
 Acq: 28 Feb 2020 18:05

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: 6.368 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060292.D

Acq: 28 Feb 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

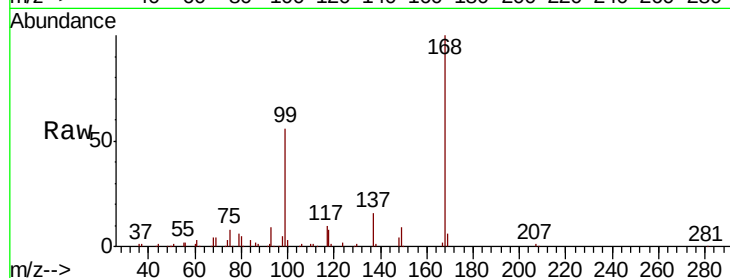
Tot Ion:117 Resp: 20124

Ion Ratio Lower Upper

117 100

119 5.3 76.7 115.1#

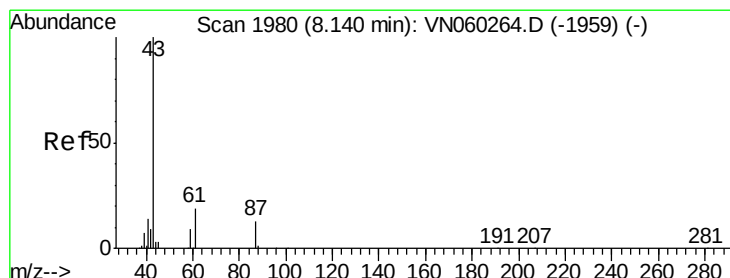
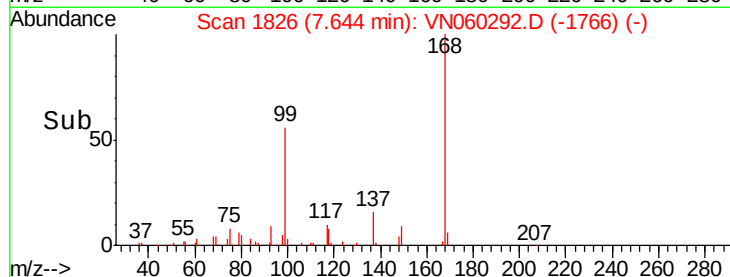
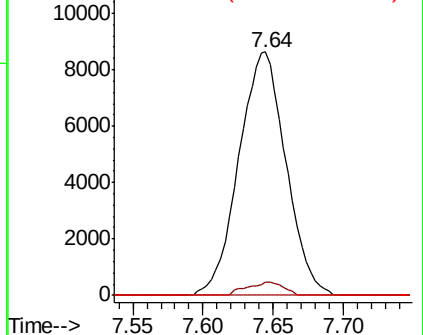
121 0.0 24.5 36.7#



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: 10.519 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060292.D

Acq: 28 Feb 2020 18:05

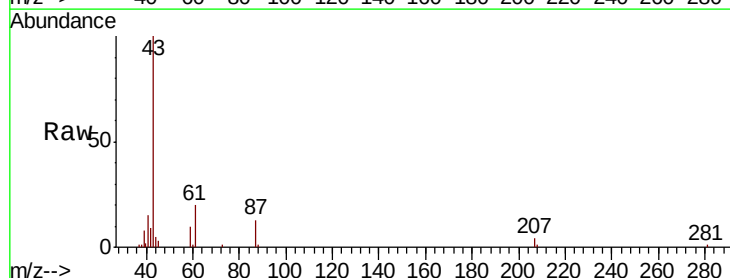
Tgt Ion: 43 Resp: 56598

Ion Ratio Lower Upper

43 100

61 19.5 20.9 31.3#

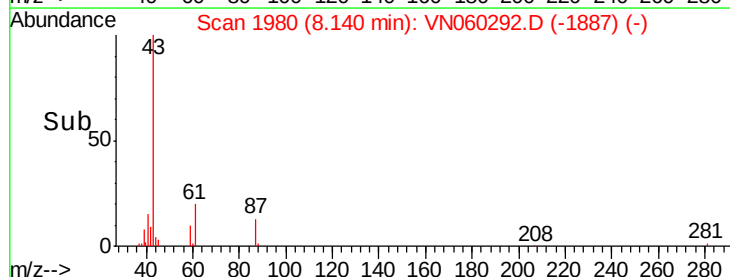
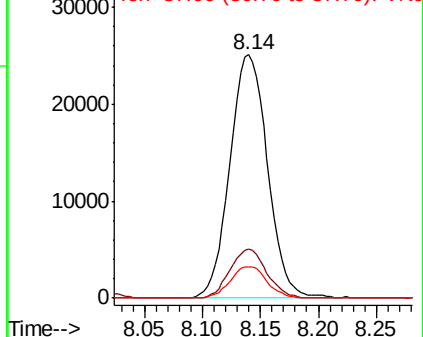
87 12.5 10.6 16.0

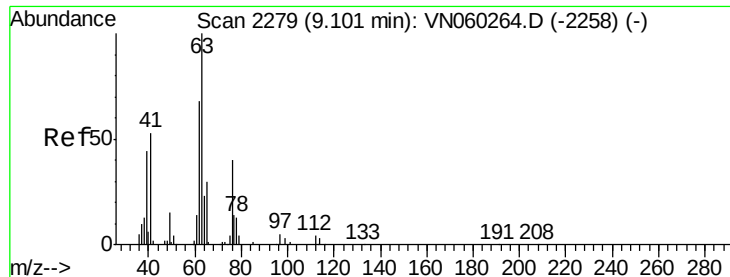


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

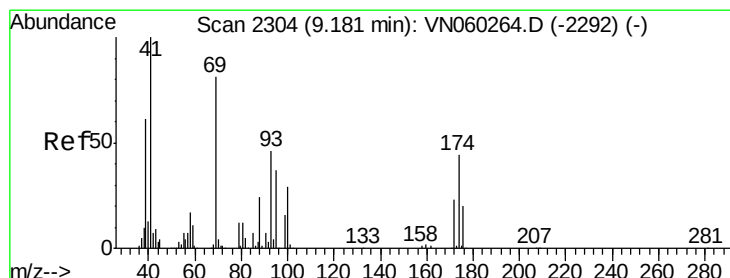
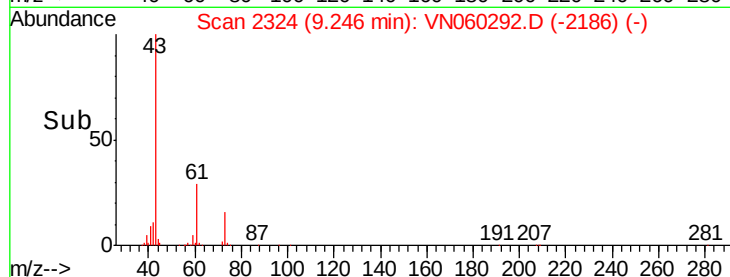
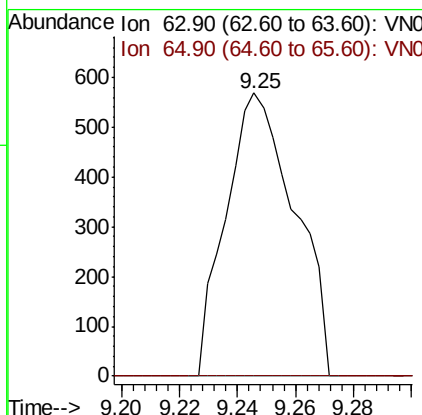
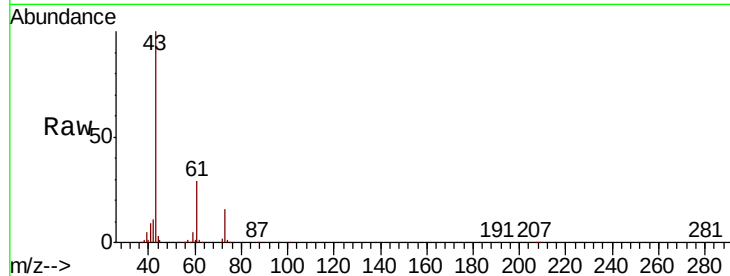




#45
 1,2-Dichloropropane
 Concen: 0.379 ug/l
 RT: 9.25 min Scan# 2324
 Delta R.T. 0.14 min
 Lab File: VN060292.D
 Acq: 28 Feb 2020 18:05

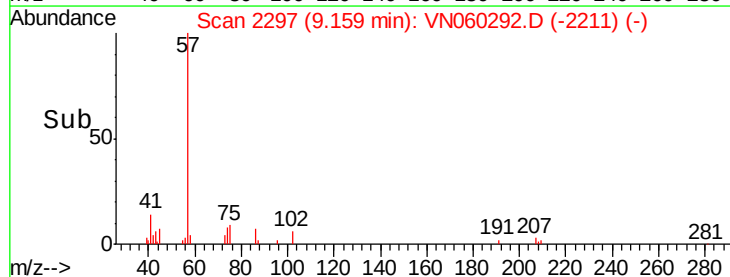
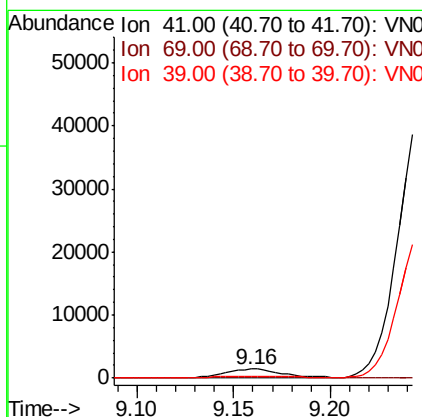
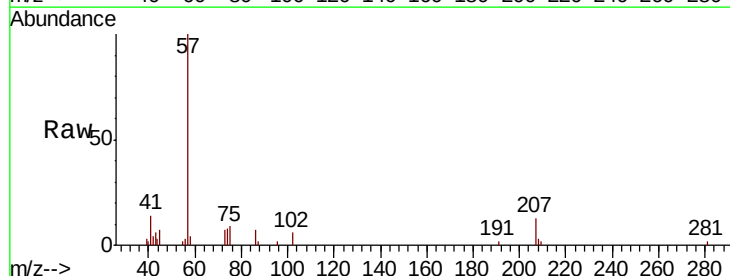
Instrument :
 MSVOA_N
 ClientSampleId :

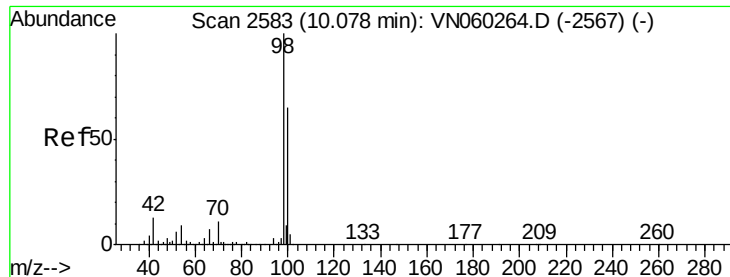
Tot Ion: 63 Resp: 935
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 1.208 ug/l
 RT: 9.16 min Scan# 2297
 Delta R.T. -0.02 min
 Lab File: VN060292.D
 Acq: 28 Feb 2020 18:05

Tgt Ion: 41 Resp: 2964
 Ion Ratio Lower Upper
 41 100
 69 0.0 66.7 100.1#
 39 0.0 50.1 75.1#





#50

Toluene-d8

Concen: 52.500 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060292.D

Acq: 28 Feb 2020 18:05

Instrument :

MSVOA_N

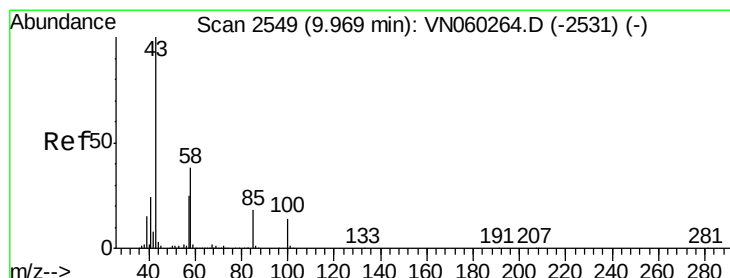
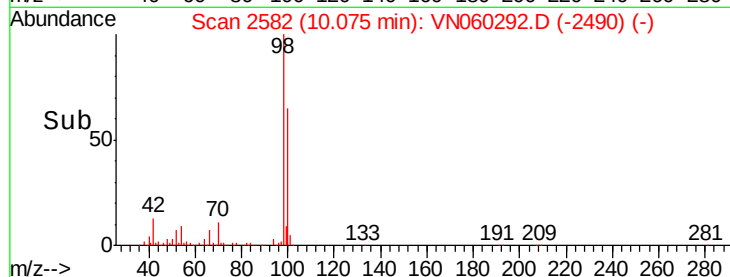
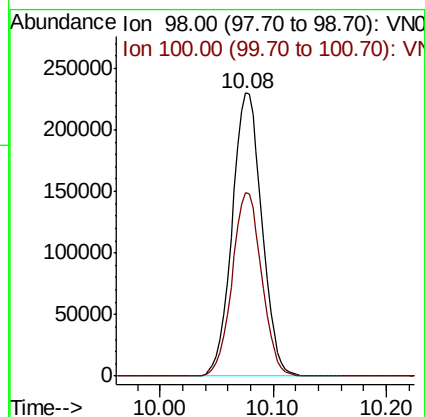
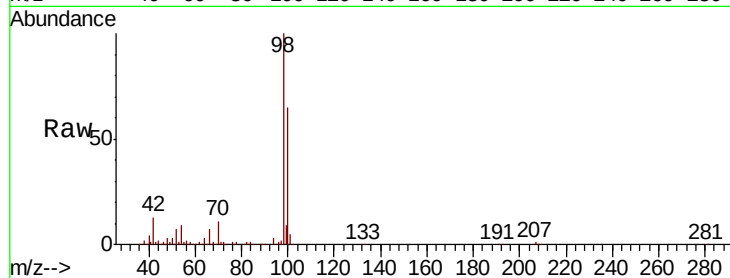
ClientSampled :

Tot Ion: 98 Resp: 420039

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.2



#51

4-Methyl-2-Pentanone

Concen: 1.573 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. -0.00 min

Lab File: VN060292.D

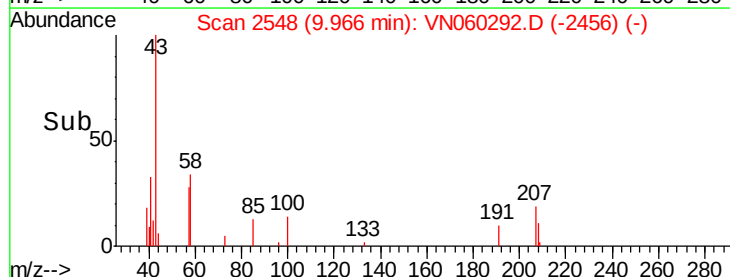
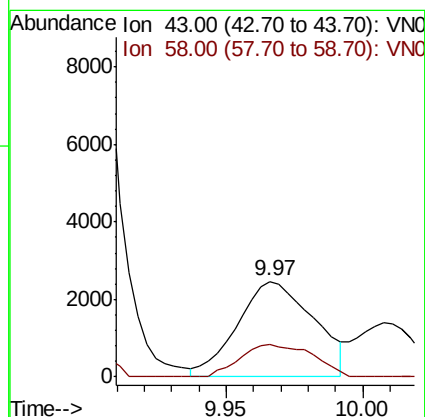
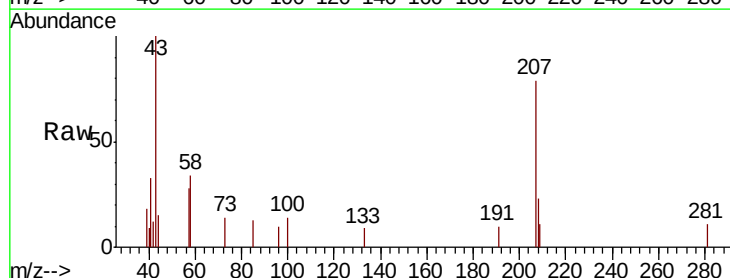
Acq: 28 Feb 2020 18:05

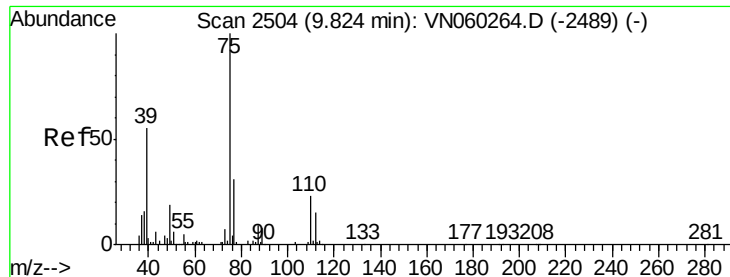
Tgt Ion: 43 Resp: 4800

Ion Ratio Lower Upper

43 100

58 32.4 30.9 46.3





#54

cis-1,3-Dichloropropene

Concen: 5.857 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060292.D

Acq: 28 Feb 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

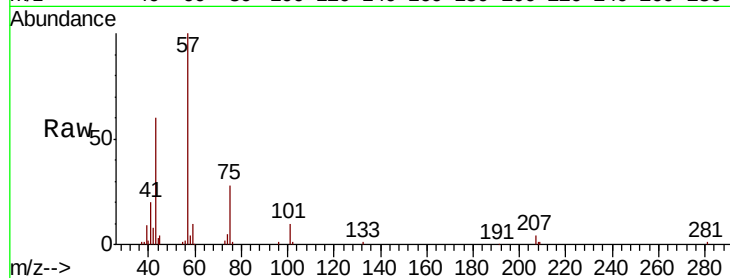
Tot Ion: 75 Resp: 24240

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

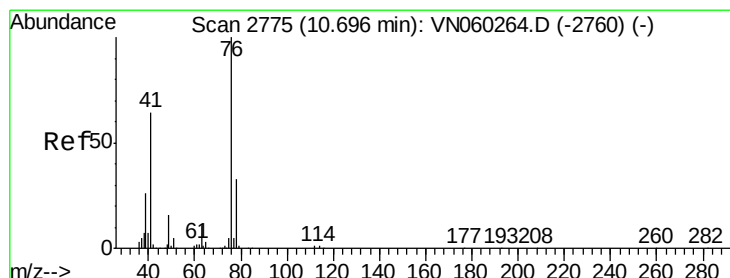
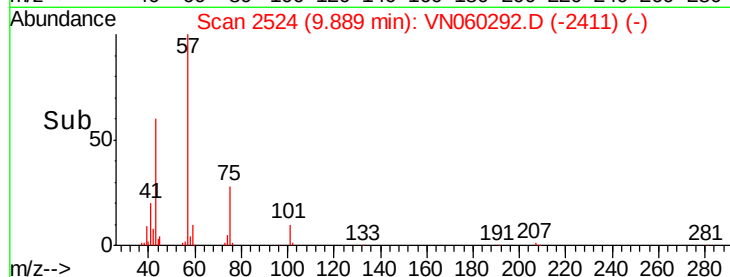
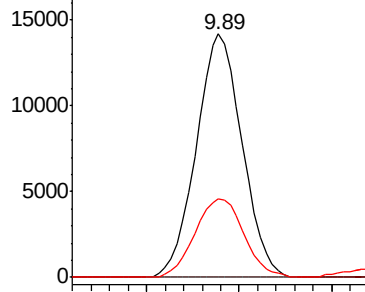
39 32.3 43.8 65.8#



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: 1.029 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060292.D

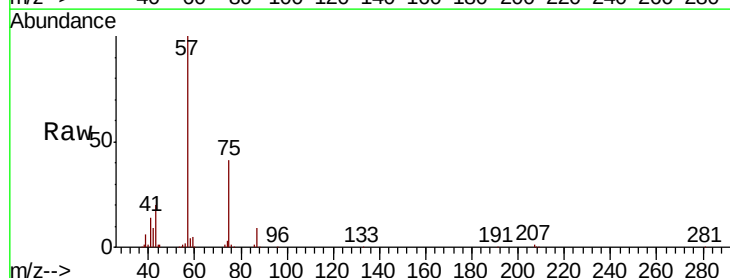
Acq: 28 Feb 2020 18:05

Tgt Ion: 76 Resp: 4003

Ion Ratio Lower Upper

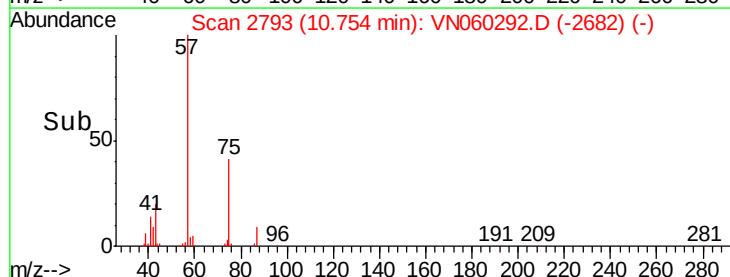
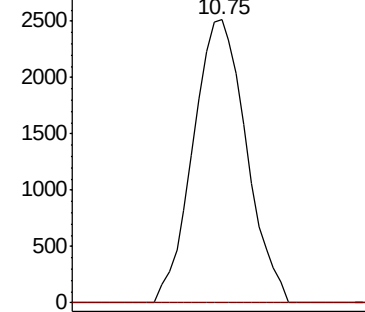
76 100

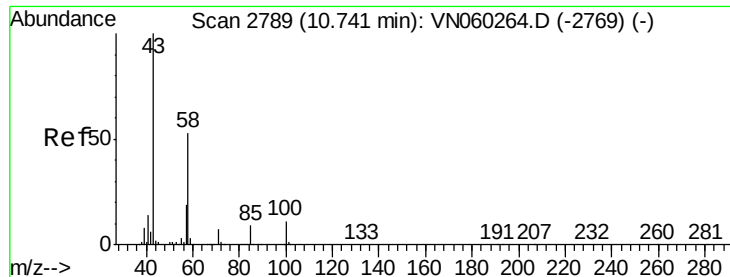
78 0.0 26.2 39.2#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

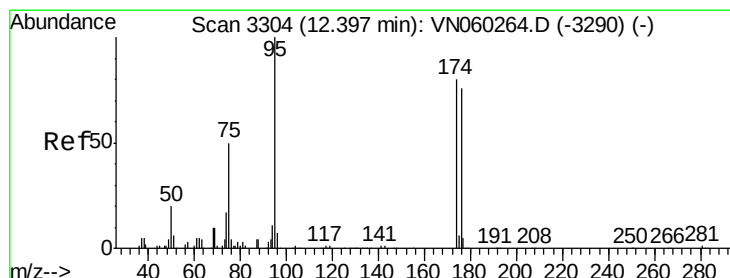
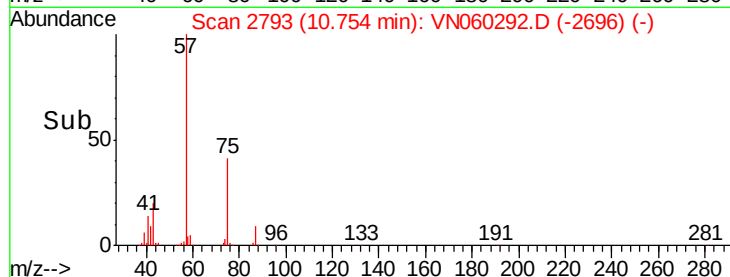
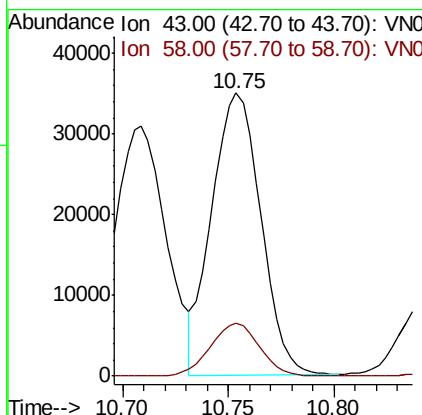
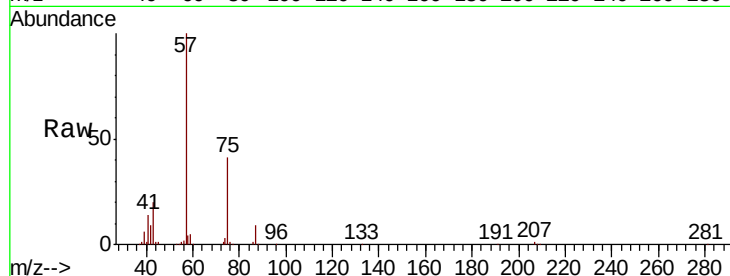




#59
2-Hexanone
Concen: 25.259 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

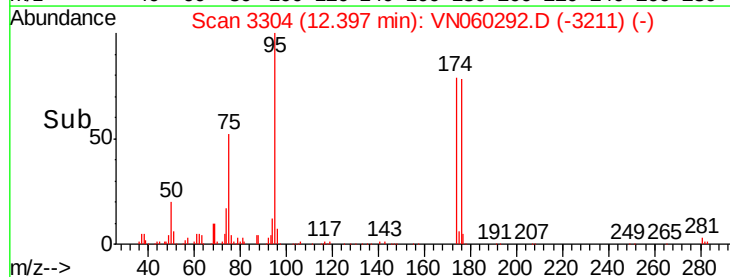
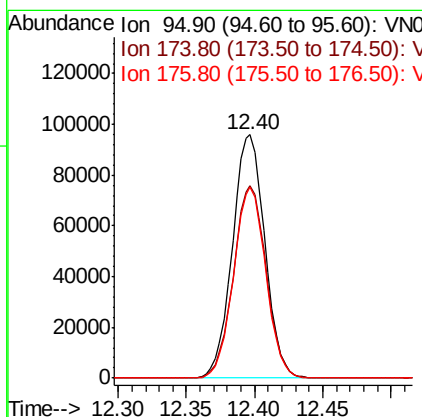
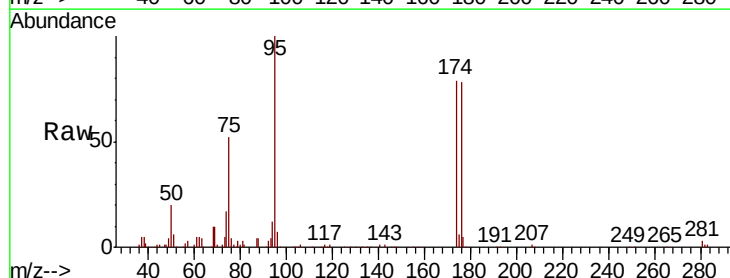
Instrument :
MSVOA_N
ClientSampled :

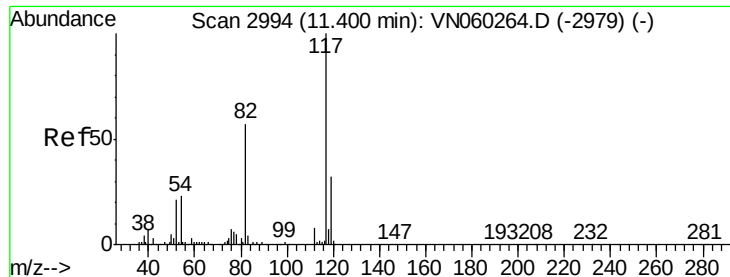
Tot Ion: 43 Resp: 56577
Ion Ratio Lower Upper
43 100
58 18.7 26.5 79.5#



#62
4-Bromofluorobenzene
Concen: 52.192 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

Tgt Ion: 95 Resp: 158292
Ion Ratio Lower Upper
95 100
174 80.0 0.0 159.2
176 78.0 0.0 153.8

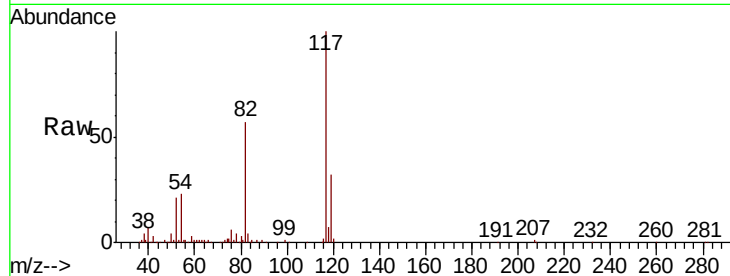




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.4	45.8	68.6
119	31.9	25.8	38.8

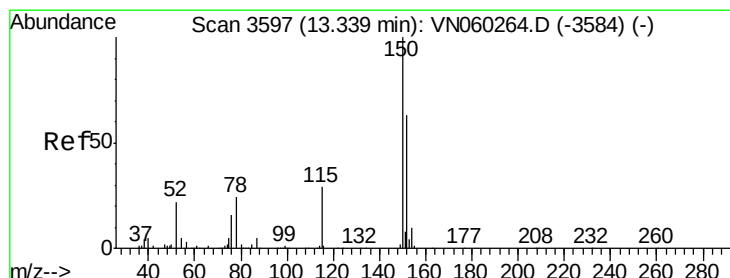
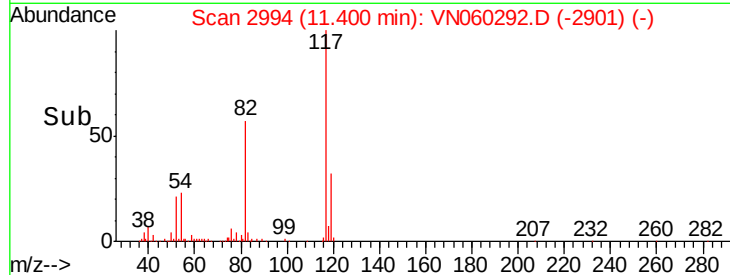
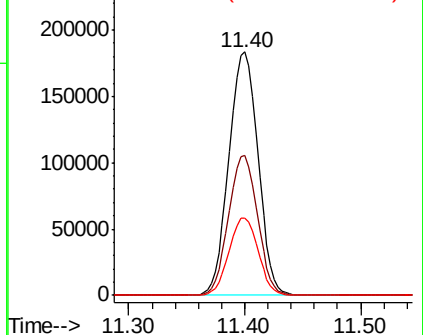


Abundance

Ion 116.90 (116.60 to 117.60): V

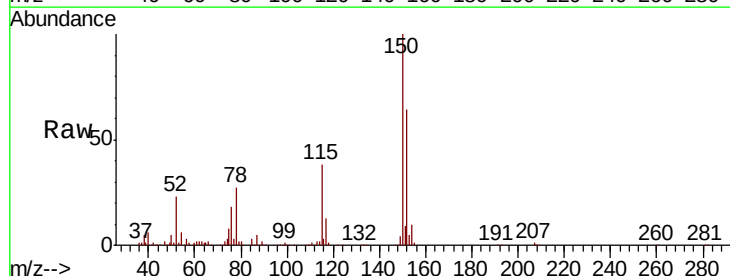
Ion 82.00 (81.70 to 82.70): V

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: VN060292.D
Acq: 28 Feb 2020 18:05

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.1	30.0	90.0
150	155.5	0.0	349.6

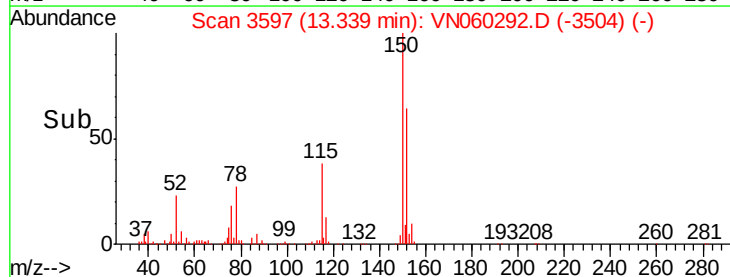
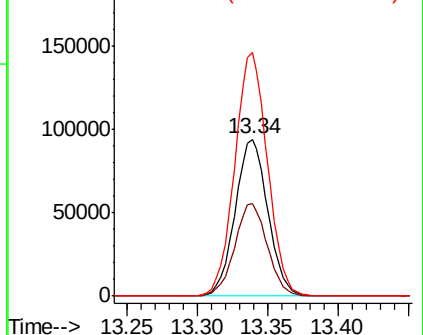


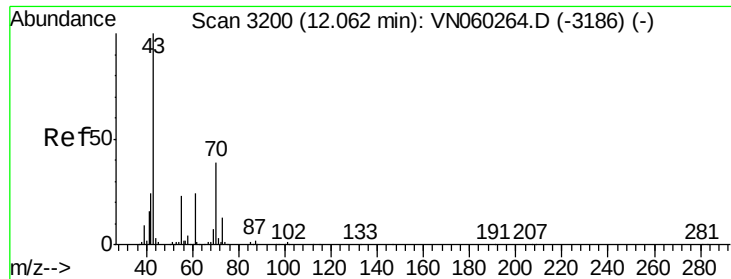
Abundance

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

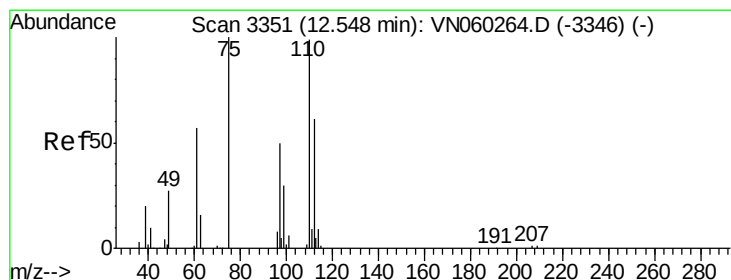
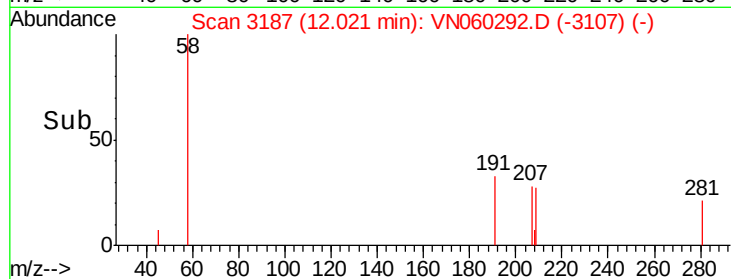
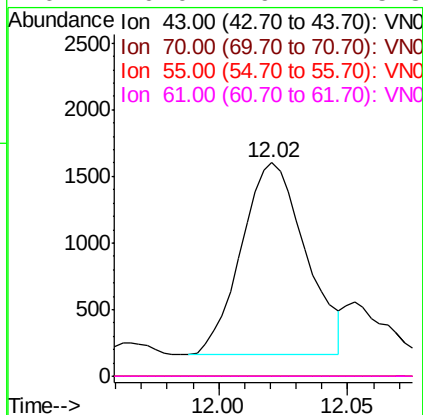
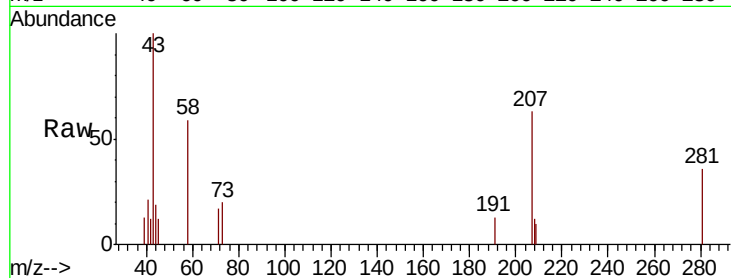




#74
N-amvl acetate
Concen: 0.507 ug/l
RT: 12.02 min Scan# 3187
Delta R.T. -0.04 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

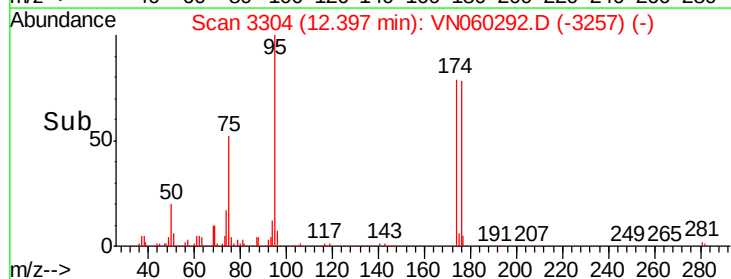
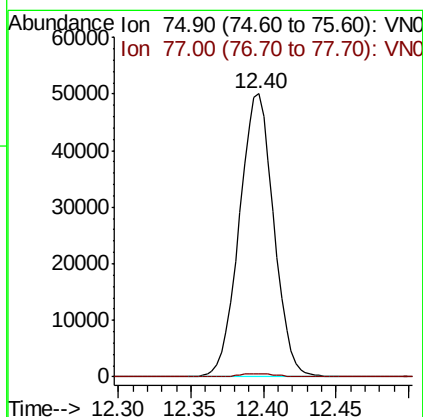
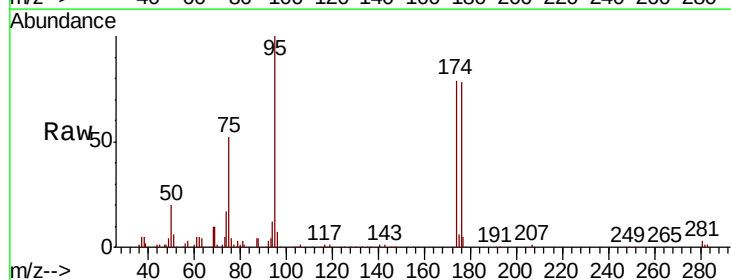
Instrument :
MSVOA_N
ClientSampleId :

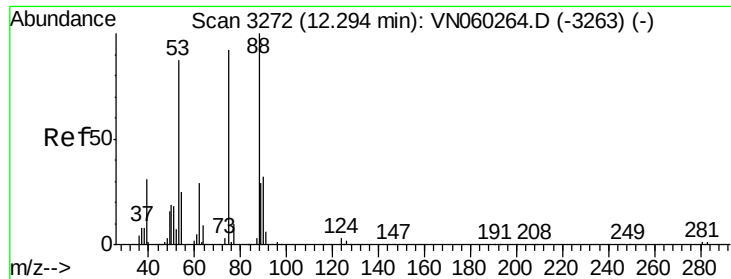
Tot Ion:	43	Resp:	2510
Ion	Ratio	Lower	Upper
43	100		
70	0.0	32.2	48.2#
55	0.0	18.2	27.4#
61	0.0	19.2	28.8#



#76
1,2,3-Trichloropropane
Concen: 24.648 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

Tgt Ion:	75	Resp:	82615
Ion	Ratio	Lower	Upper
75	100		
77	1.2	0.0	0.0#

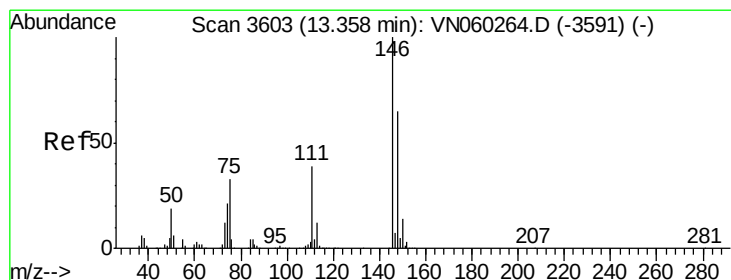
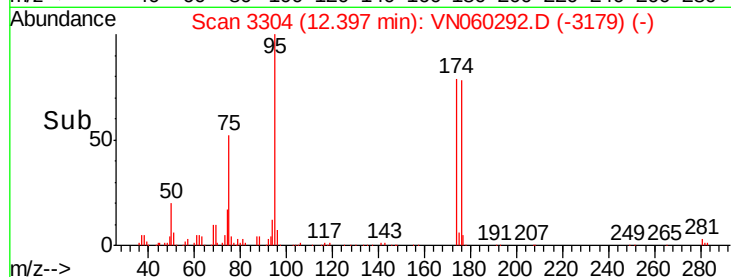
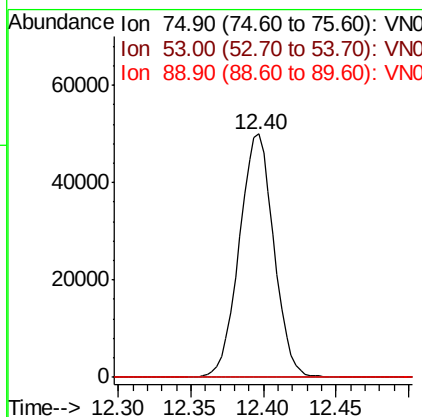
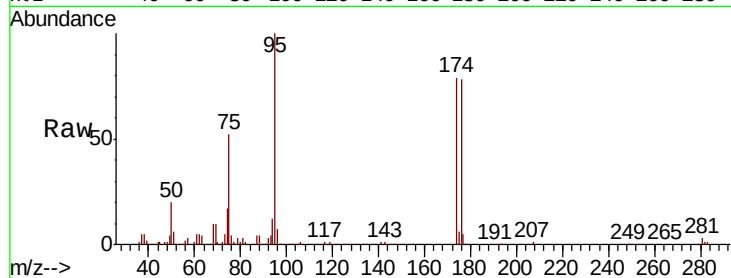




#81
trans-1,4-Dichloro-2-butene
Concen: 68.040 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

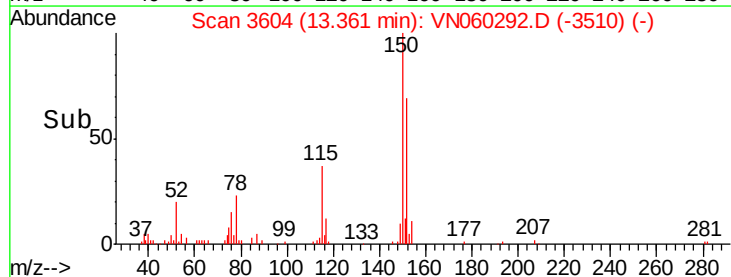
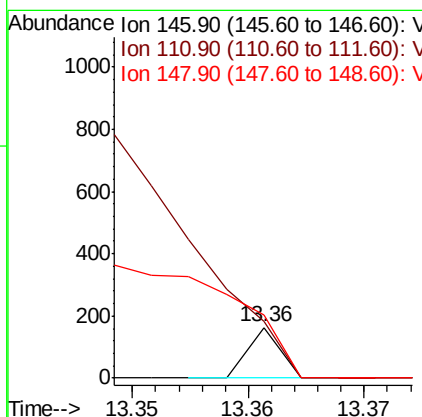
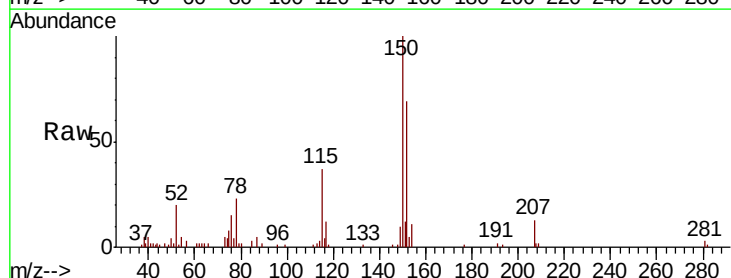
Instrument :
MSVOA_N
ClientSampleId :

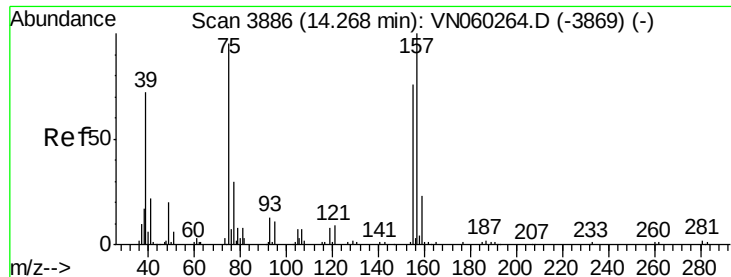
Tot Ion: 75 Resp: 82615
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 57.1 85.7#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN060292.D
Acq: 28 Feb 2020 18:05

Tgt Ion: 146 Resp: 31
Ion Ratio Lower Upper
146 100
111 0.0 19.8 59.4#
148 0.0 32.3 96.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.528 ug/l

RT: 14.26 min Scan# 3883

Delta R.T. -0.01 min

Lab File: VN060292.D

Acq: 28 Feb 2020 18:05

Instrument :

MSVOA_N

ClientSampleId :

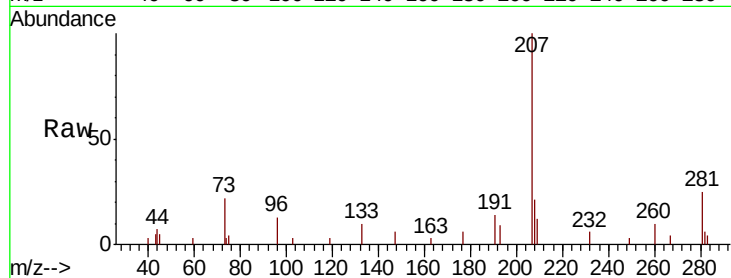
Tot Ion: 75 Resp: 368

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): VN060292.D (-3793) (-)

Ion 154.80 (154.50 to 155.50): VN060292.D (-3793) (-)

Ion 156.80 (156.50 to 157.50): VN060292.D (-3793) (-)

14.26

