

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022820\
 Data File : VN060291.D
 Acq On : 28 Feb 2020 17:42
 Operator : JC/MD
 Sample : L1718-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 29 00:39:27 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	223302	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	362214	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	344063	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	166444	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	139983	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
35) Dibromofluoromethane	7.56	113	101862	60.59	ug/l	0.00
Spiked Amount			Recovery	=	121.18%	
50) Toluene-d8	10.08	98	451115	53.02	ug/l	0.00
Spiked Amount			Recovery	=	106.04%	
62) 4-Bromofluorobenzene	12.40	95	169613	52.58	ug/l	0.00
Spiked Amount			Recovery	=	105.16%	

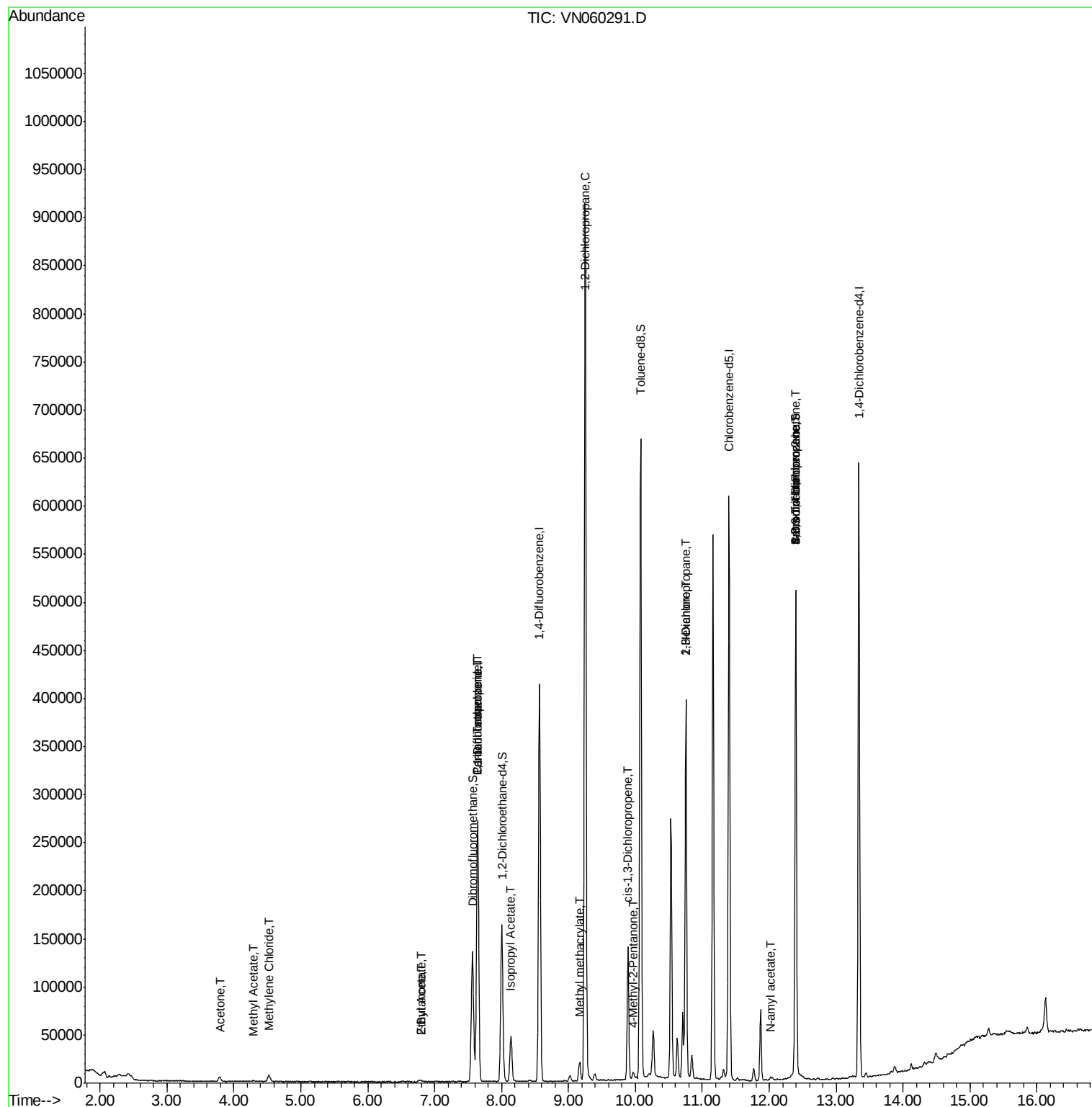
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.64	96	32	Below Cal	#	1
16) Acetone	3.79	43	8960	9.684	ug/l	95
18) Methyl Acetate	4.29	43	1339	0.434	ug/l #	52
20) Methylene Chloride	4.52	84	5163	2.032	ug/l	96
21) trans-1,2-Dichloroethene	5.02	96	30	Below Cal	#	1
25) 2-Butanone	6.81	43	1542	1.032	ug/l #	49
31) Cyclohexane	7.64	56	4686	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	17182	4.977	ug/l #	50
37) Ethyl Acetate	6.81	43	1542	0.472	ug/l #	68
38) Carbon Tetrachloride	7.64	117	21008	6.250	ug/l #	16
43) Isopropyl Acetate	8.14	43	57267	10.008	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	1059	0.403	ug/l #	44
48) Methyl methacrylate	9.16	41	2861	1.096	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4306	1.327	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	24223	5.503	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3796	0.917	ug/l #	42
59) 2-Hexanone	10.75	43	56084	23.543	ug/l #	52
71) Bromoform	12.40	173	1050	0.567	ug/l #	1
74) N-amyl acetate	12.02	43	3898	0.723	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	87725	24.022	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	87725	66.313	ug/l #	8
87) 1,3-Dichlorobenzene	13.35	146	95	Below Cal	#	1
88) 1,4-Dichlorobenzene	13.35	146	95	Below Cal	#	1
95) Naphthalene	15.13	128	473	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# 1825

Delta R.T. -0.00 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

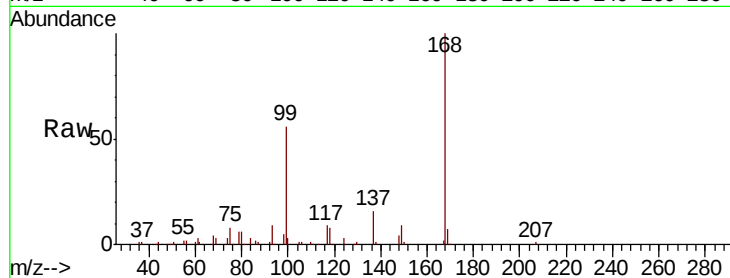
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 223302

Ion Ratio Lower Upper

168 100

99 55.7 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

100000

80000

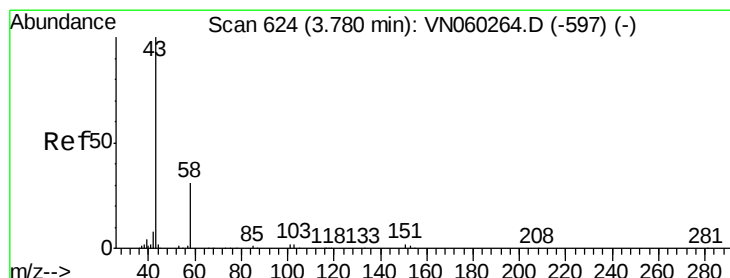
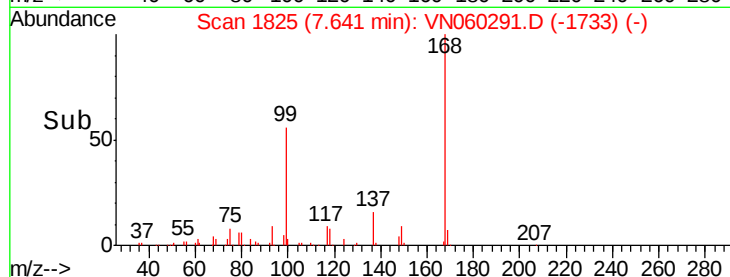
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 9.684 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060291.D

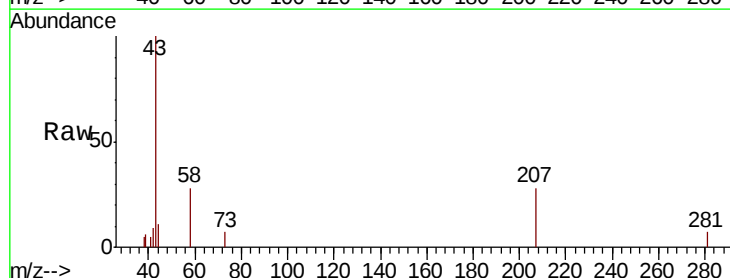
Acq: 28 Feb 2020 17:42

Tgt Ion: 43 Resp: 8960

Ion Ratio Lower Upper

43 100

58 28.1 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

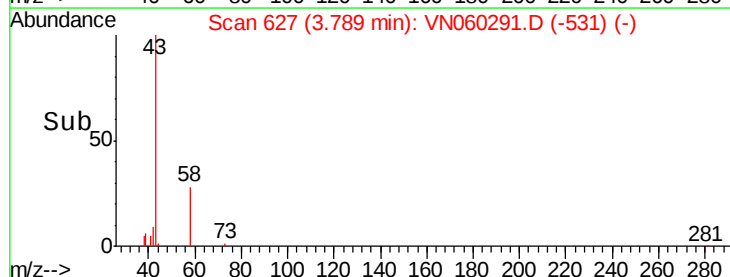
3000

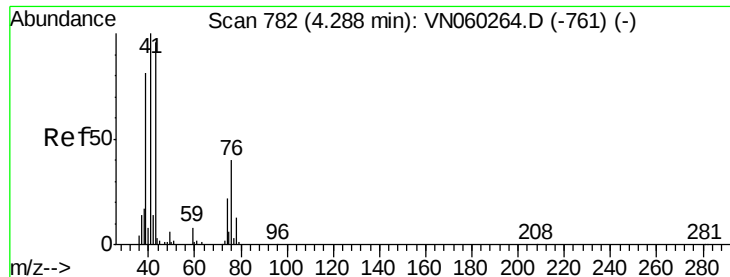
2000

1000

0

Time-->

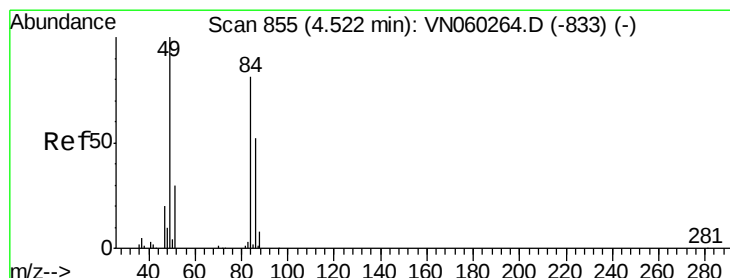
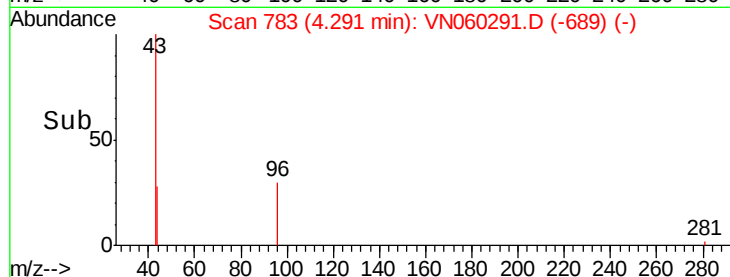
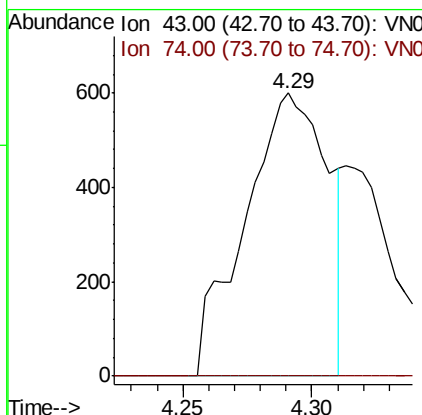
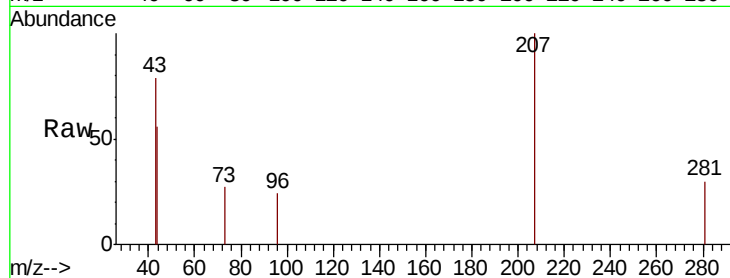




#18
Methyl Acetate
Concen: 0.434 ug/l
RT: 4.29 min Scan# 783
Delta R.T. 0.00 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

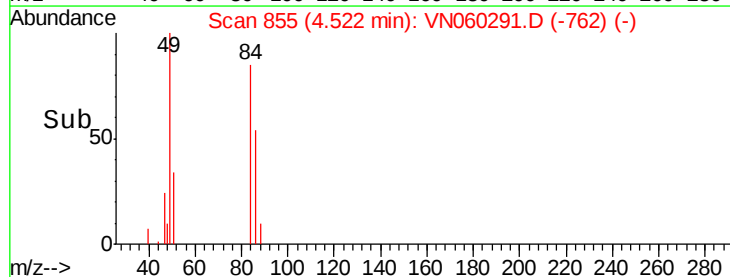
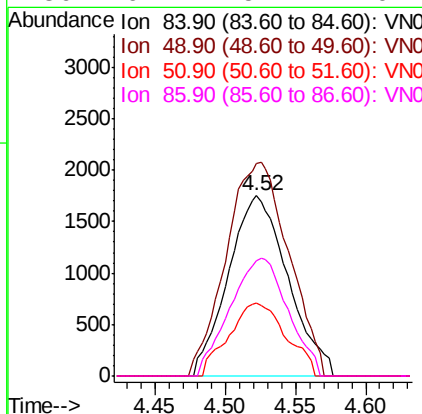
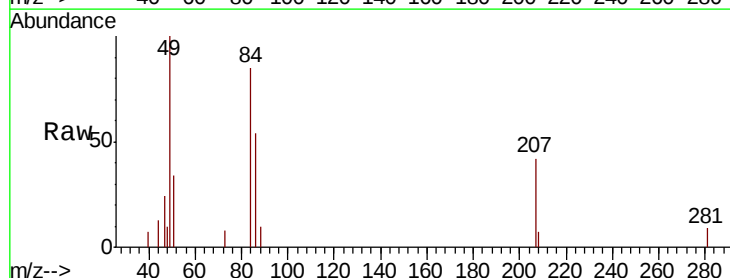
Instrument :
MSVOA_N
ClientSampleId :

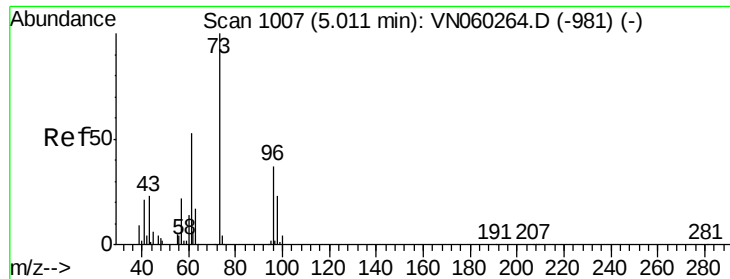
Tot Ion: 43 Resp: 1339
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 2.032 ug/l
RT: 4.52 min Scan# 855
Delta R.T. -0.00 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

Tgt Ion: 84 Resp: 5163
Ion Ratio Lower Upper
84 100
49 118.2 99.3 148.9
51 40.4 30.1 45.1
86 64.1 51.1 76.7





#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.02 min Scan# 1009

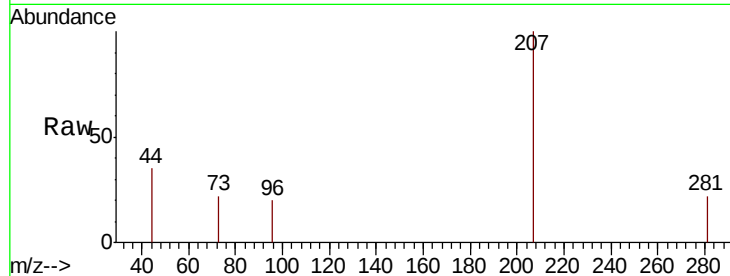
Delta R.T. 0.01 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	113.8	170.8#
98	0.0	48.8	73.2#

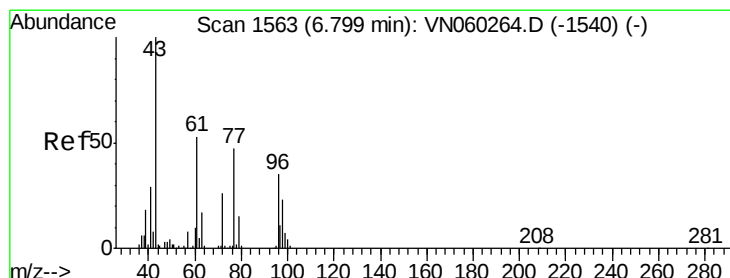
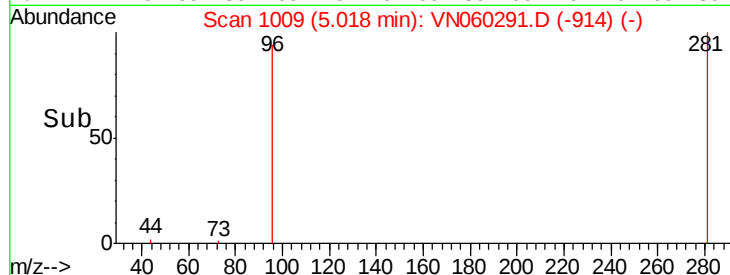
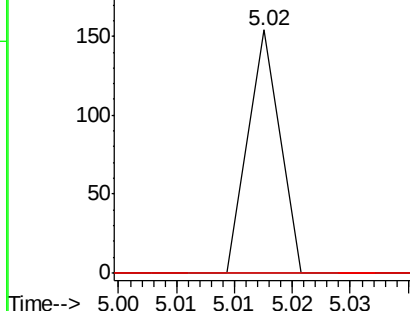


Abundance

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: 1.032 ug/l

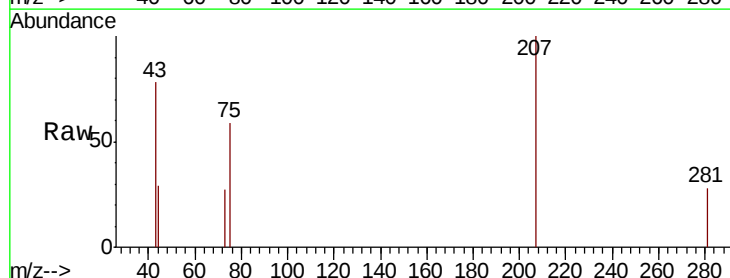
RT: 6.81 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

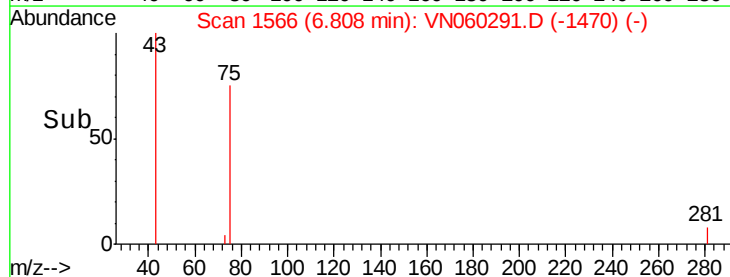
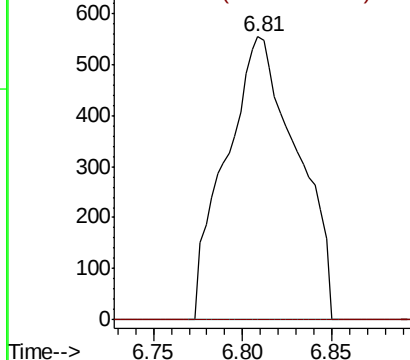
Tgt Ion	Ratio	Lower	Upper
43	100		
72	0.0	20.9	31.3#



Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

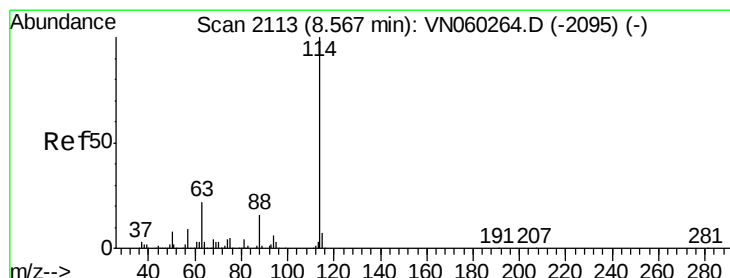
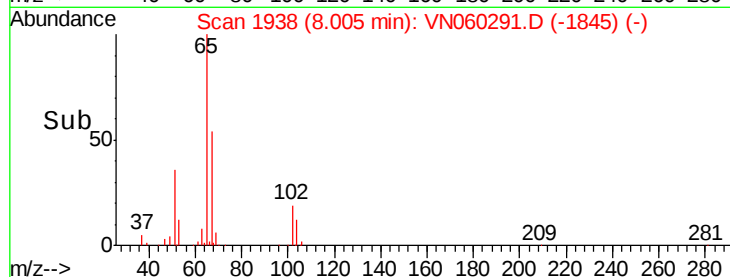
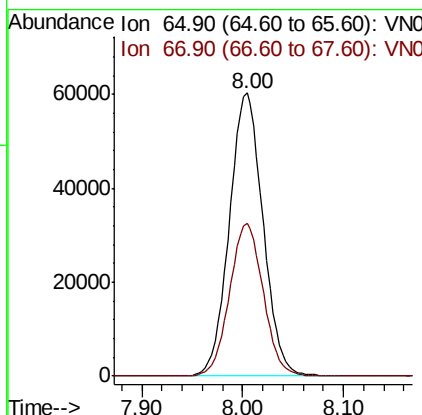
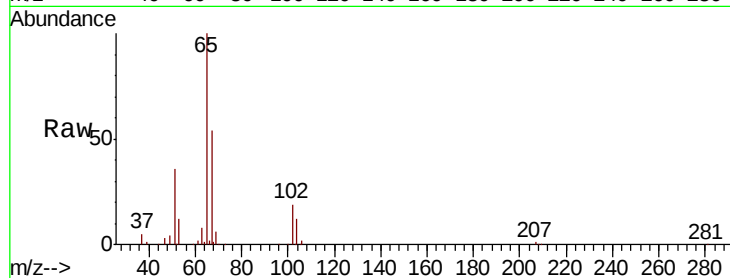




#33
 1,2-Dichloroethane-d4
 Concen: 48.860 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060291.D
 Acq: 28 Feb 2020 17:42

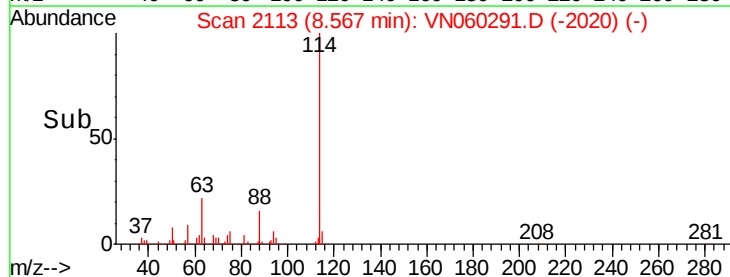
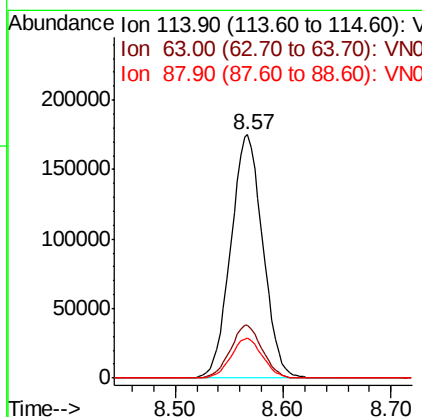
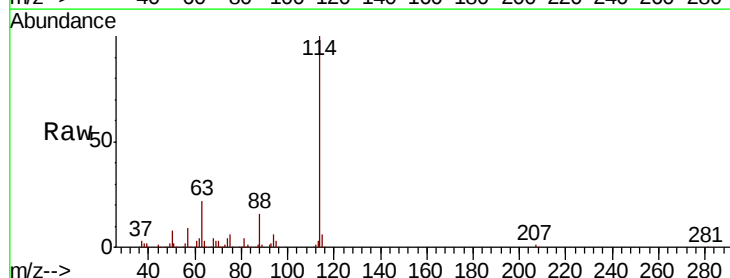
Instrument :
 MSVOA_N
 ClientSampleId :

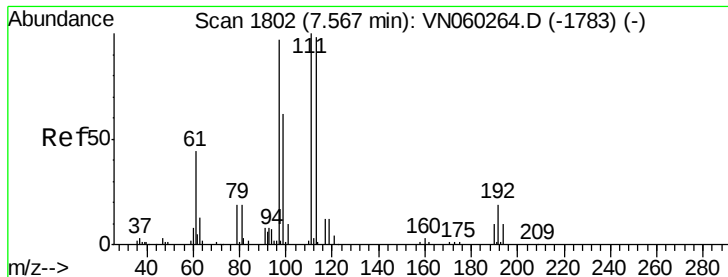
Tot Ion: 65 Resp: 139983
 Ion Ratio Lower Upper
 65 100
 67 53.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060291.D
 Acq: 28 Feb 2020 17:42

Tgt Ion: 114 Resp: 362214
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.2
 88 16.3 0.0 31.6





#35

Dibromofluoromethane

Concen: 60.586 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

Instrument :
MSVOA_N
ClientSampled :

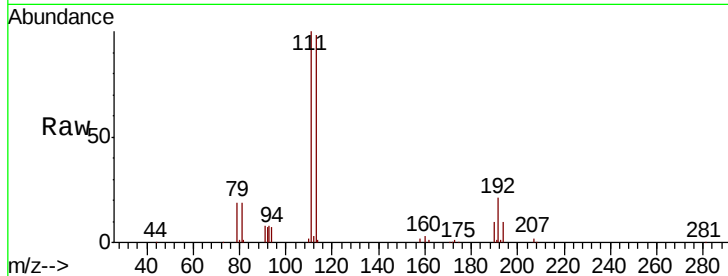
Tot Ion:113 Resp: 101862

Ion Ratio Lower Upper

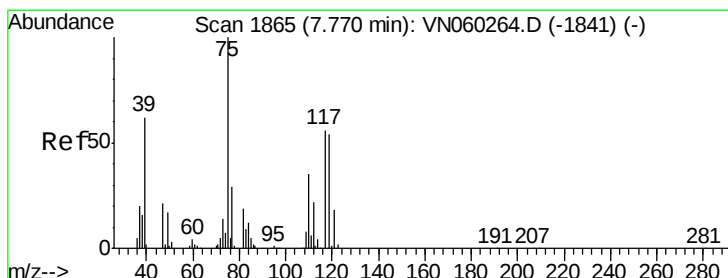
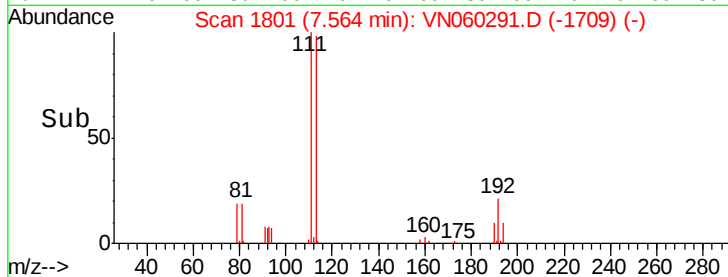
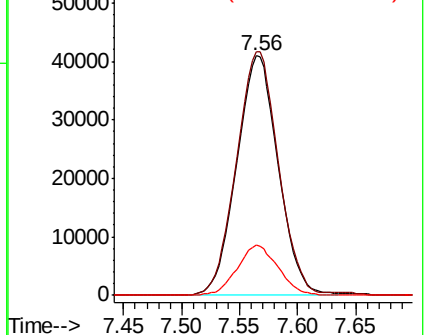
113 100

111 102.7 82.4 123.6

192 20.5 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: VN060291.D

Acq: 28 Feb 2020 17:42

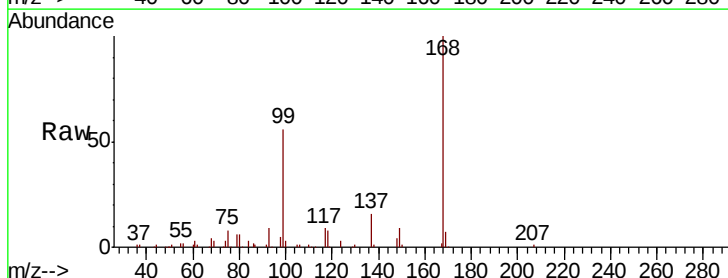
Tgt Ion: 75 Resp: 17182

Ion Ratio Lower Upper

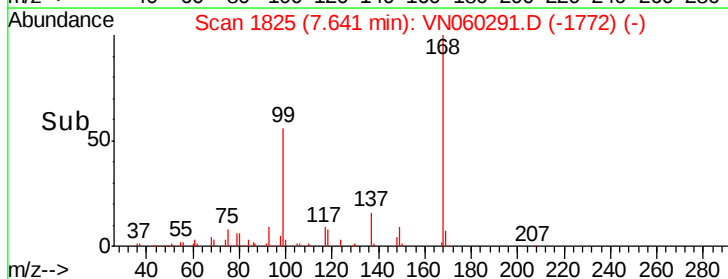
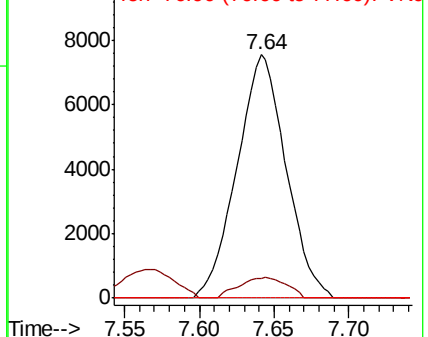
75 100

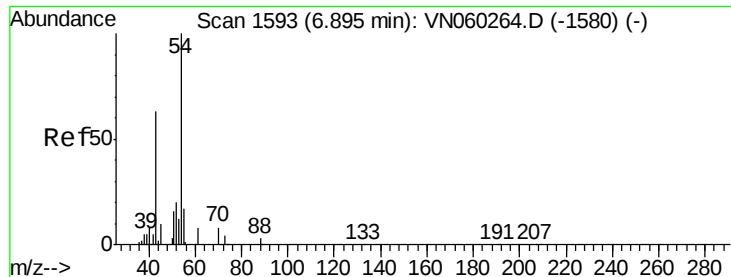
110 8.3 17.3 52.0#

77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V

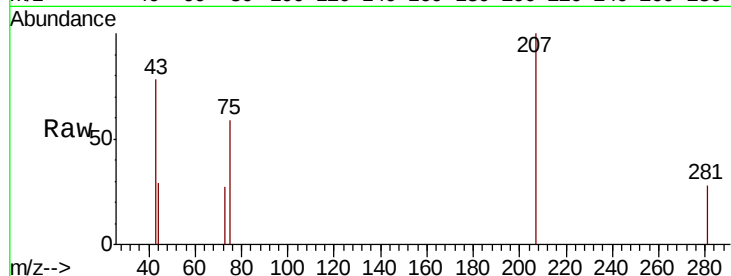




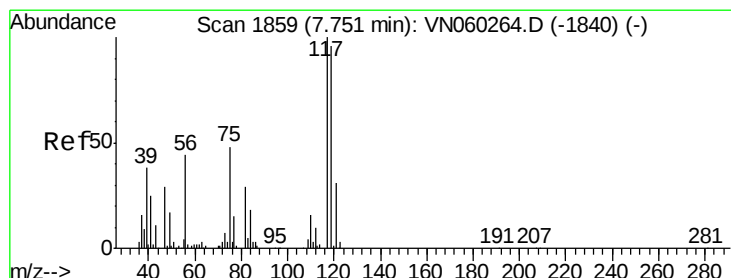
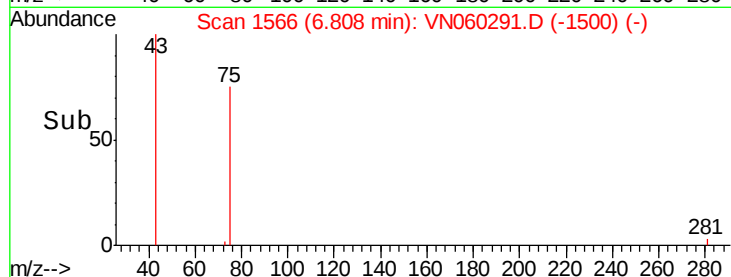
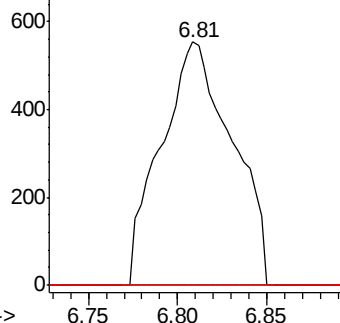
#37
Ethyl Acetate
Concen: 0.472 ug/l
RT: 6.81 min Scan# 1566
Delta R.T. -0.09 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1542
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 8.4 12.6#

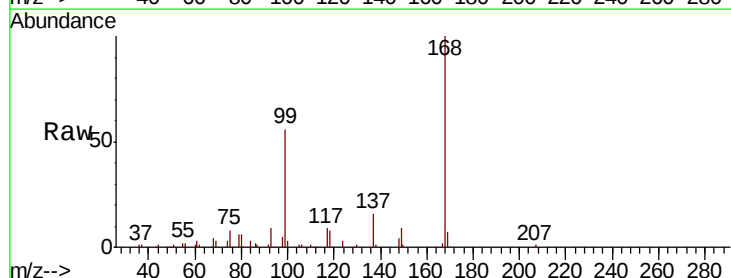


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

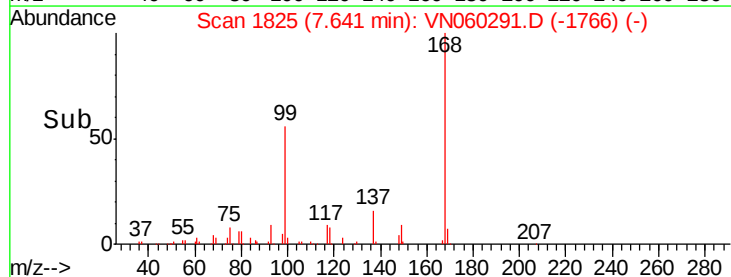
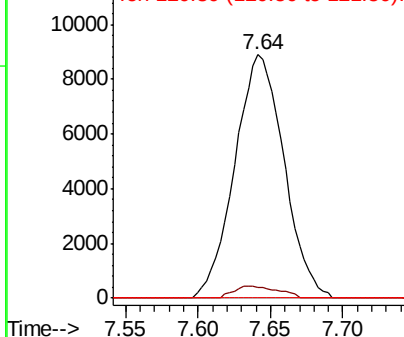


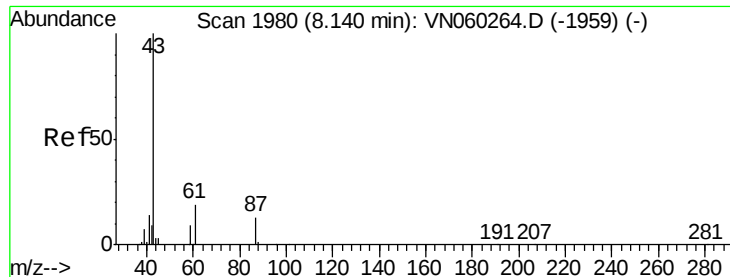
#38
Carbon Tetrachloride
Concen: 6.250 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.11 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

Tgt Ion: 117 Resp: 21008
Ion Ratio Lower Upper
117 100
119 4.5 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: 10.008 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

Instrument :

MSVOA_N

ClientSampleId :

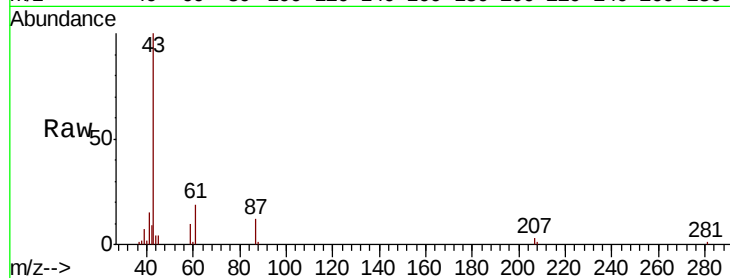
Tot Ion: 43 Resp: 57267

Ion Ratio Lower Upper

43 100

61 19.4 20.9 31.3#

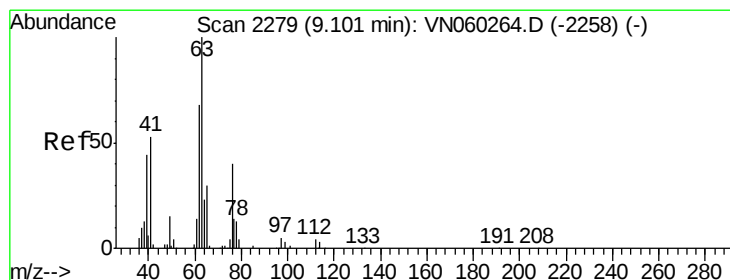
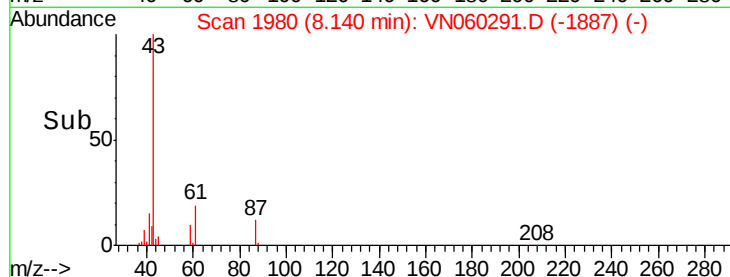
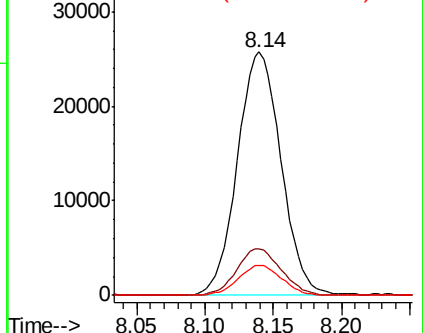
87 12.3 10.6 16.0



Abundance Ion 43.00 (42.70 to 43.70): VN060264.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060264.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060264.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.403 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060291.D

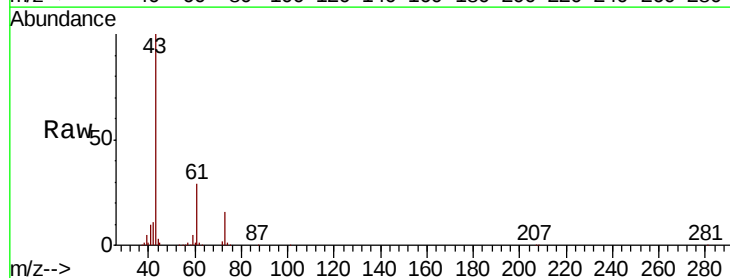
Acq: 28 Feb 2020 17:42

Tgt Ion: 63 Resp: 1059

Ion Ratio Lower Upper

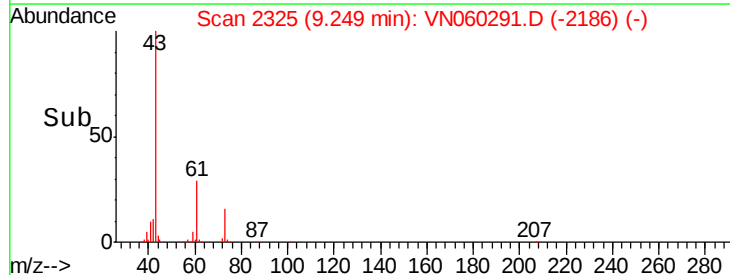
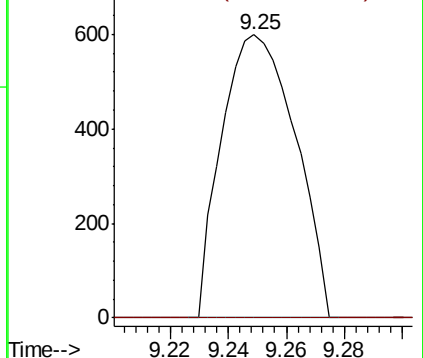
63 100

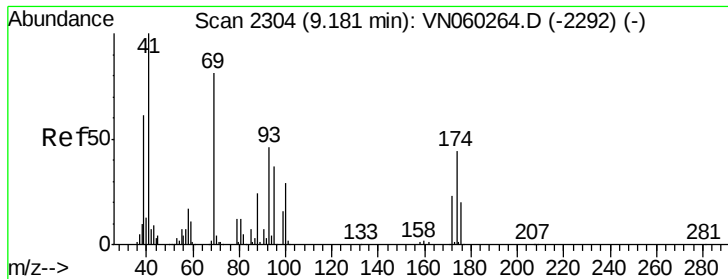
65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN060264.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060264.D (-2258) (-)

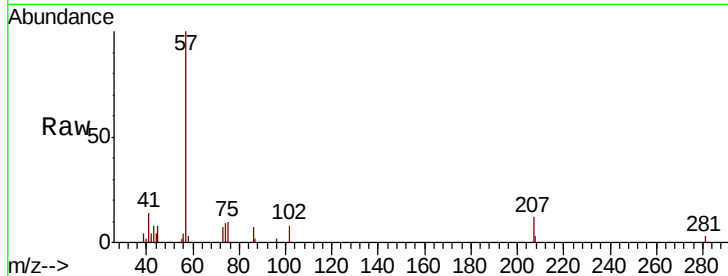




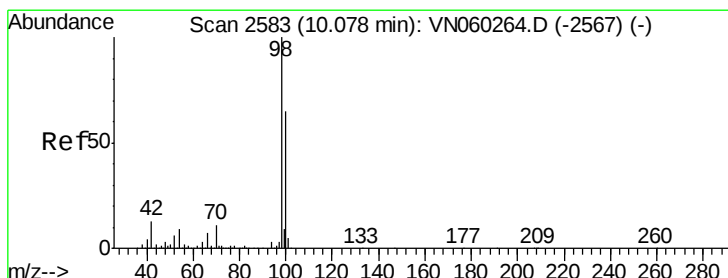
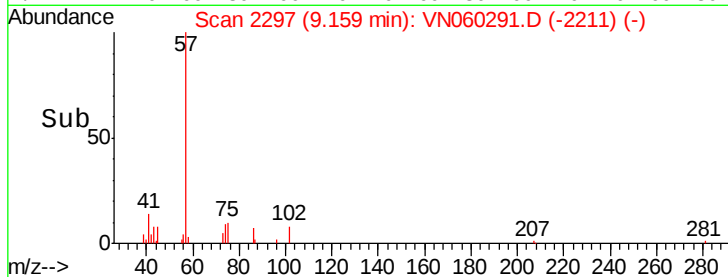
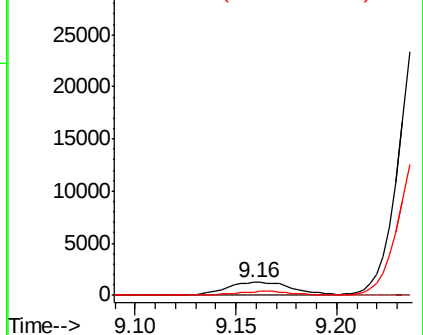
#48
Methvl methacrylate
Concen: 1.096 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 2861
Ion Ratio Lower Upper
41 100
69 0.0 66.7 100.1#
39 0.0 50.1 75.1#

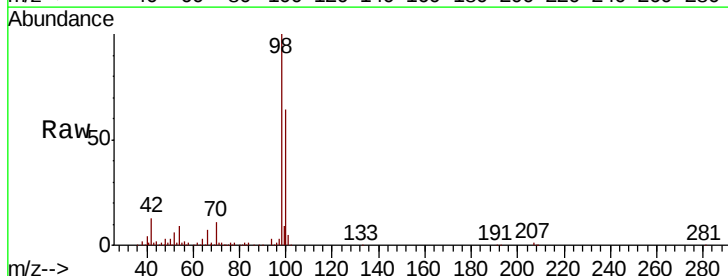


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

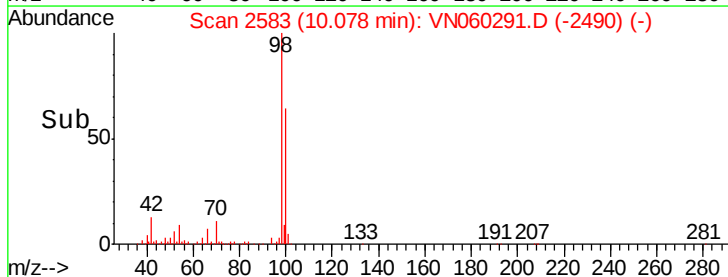
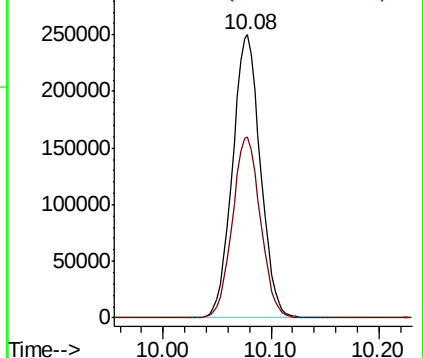


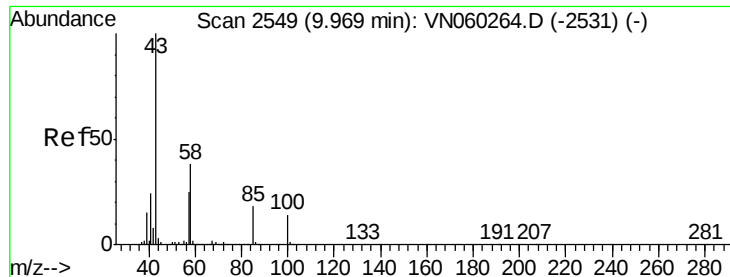
#50
Toluene-d8
Concen: 53.015 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

Tgt Ion: 98 Resp: 451115
Ion Ratio Lower Upper
98 100
100 64.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

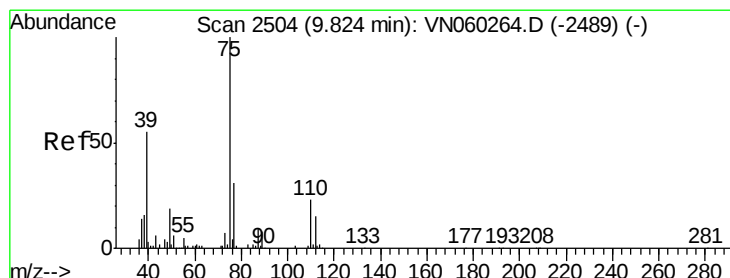
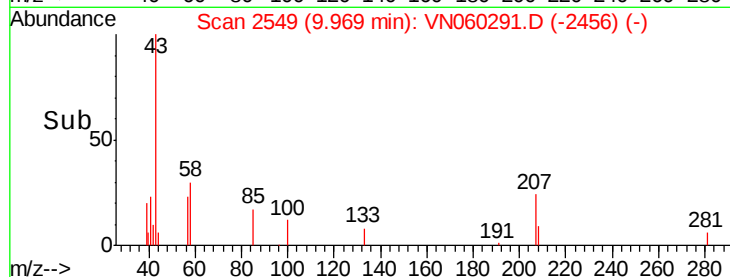
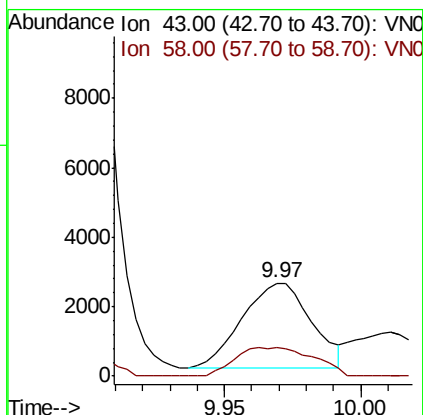
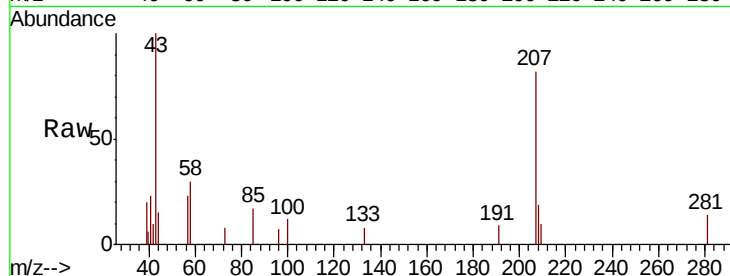




#51
4-Methyl-2-Pentanone
Concen: 1.327 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. -0.00 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

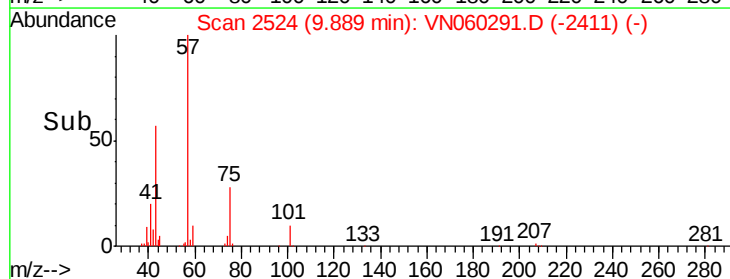
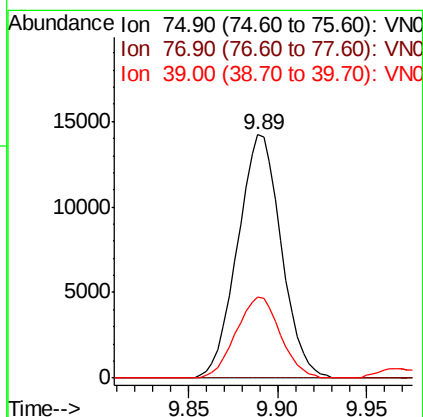
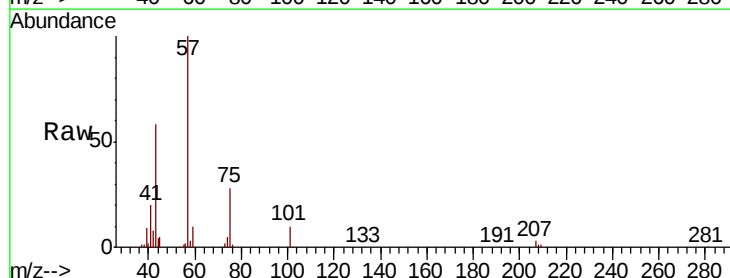
Instrument :
MSVOA_N
ClientSampled :

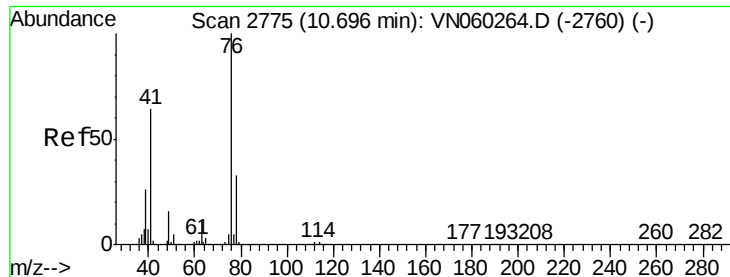
Tot Ion: 43 Resp: 4306
Ion Ratio Lower Upper
43 100
58 37.9 30.9 46.3



#54
cis-1,3-Dichloropropene
Concen: 5.503 ug/l
RT: 9.89 min Scan# 2524
Delta R.T. 0.06 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

Tgt Ion: 75 Resp: 24223
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 33.2 43.8 65.8#





#57

1,3-Dichloropropane

Concen: 0.917 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

Instrument :

MSVOA_N

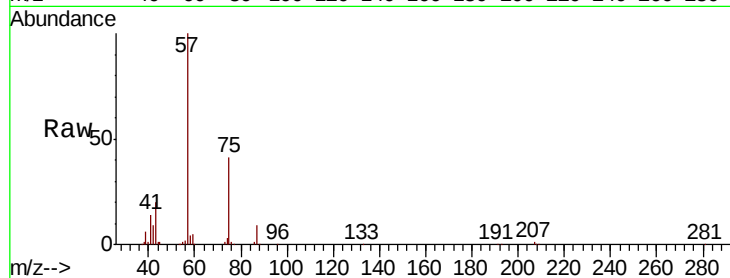
ClientSampled :

Tot Ion: 76 Resp: 3796

Ion Ratio Lower Upper

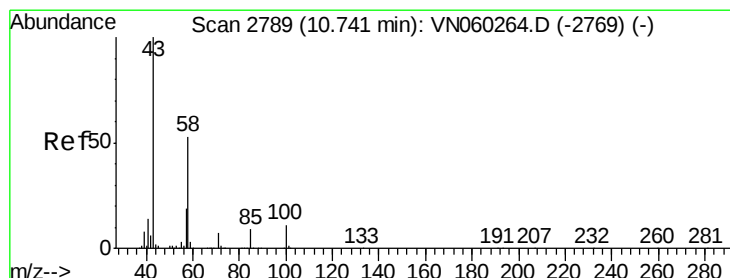
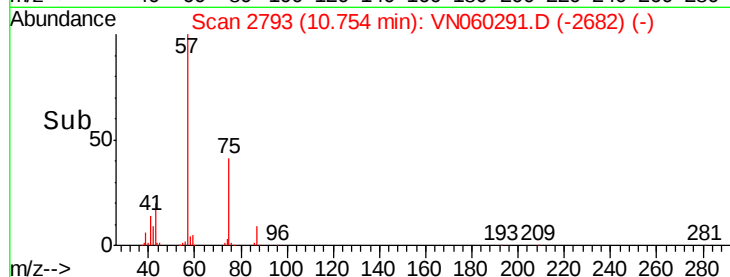
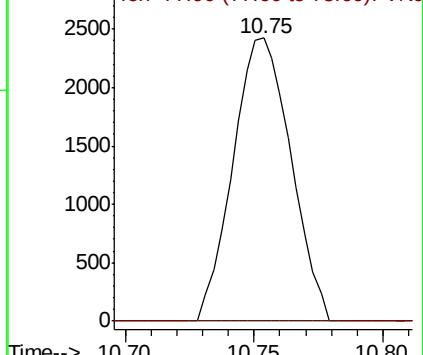
76 100

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: 23.543 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060291.D

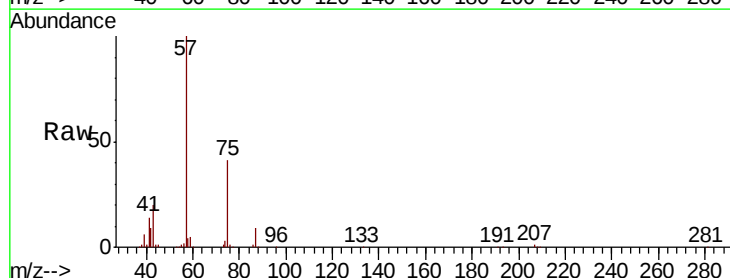
Acq: 28 Feb 2020 17:42

Tgt Ion: 43 Resp: 56084

Ion Ratio Lower Upper

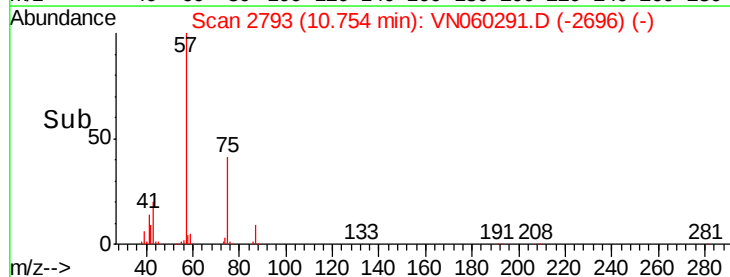
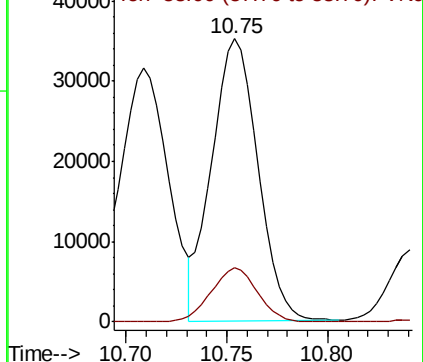
43 100

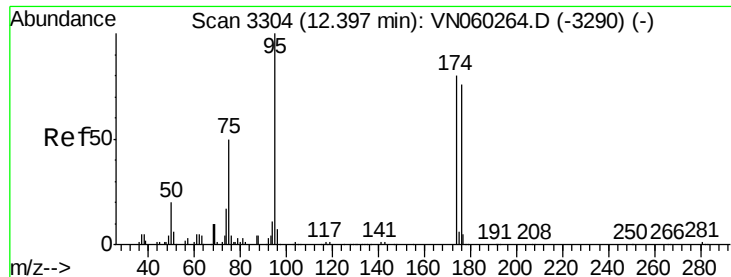
58 19.0 26.5 79.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.583 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

Instrument :

MSVOA_N

ClientSampled :

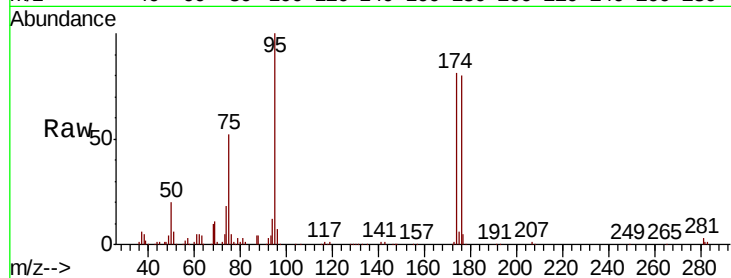
Tot Ion: 95 Resp: 169613

Ion Ratio Lower Upper

95 100

174 80.4 0.0 159.2

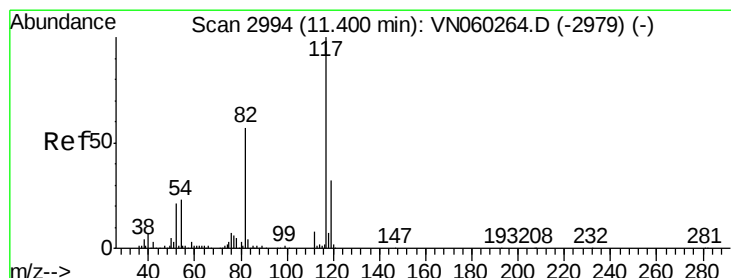
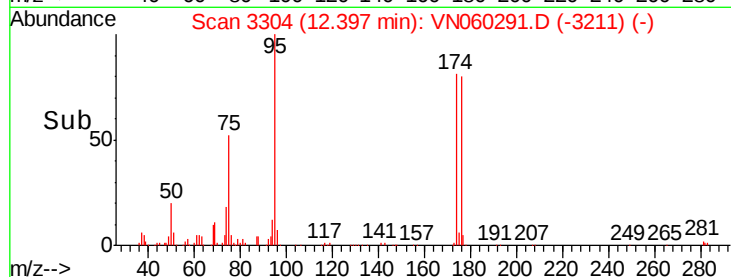
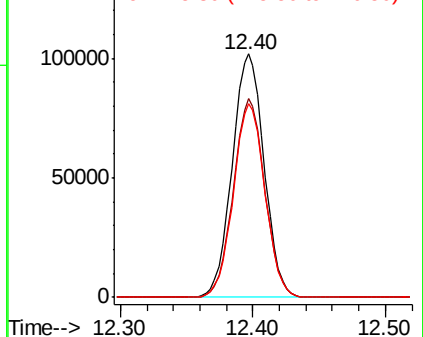
176 78.8 0.0 153.8



Abundance Ion 94.90 (94.60 to 95.60): VN060264.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060264.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060264.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

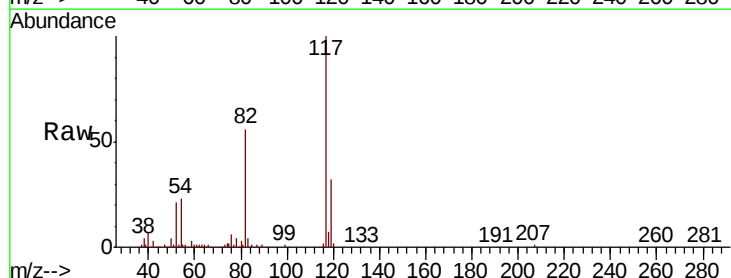
Tgt Ion: 117 Resp: 344063

Ion Ratio Lower Upper

117 100

82 56.5 45.8 68.6

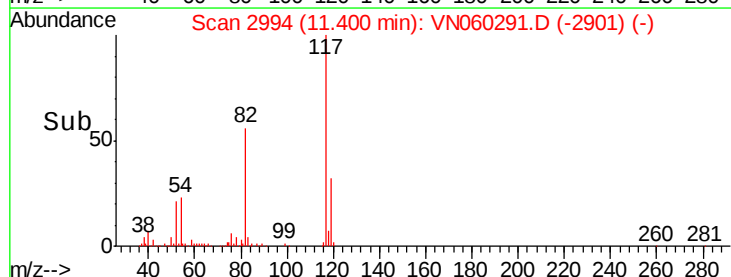
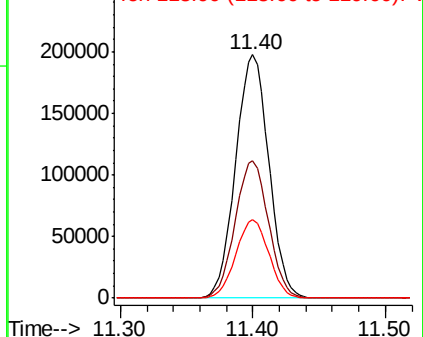
119 32.0 25.8 38.8

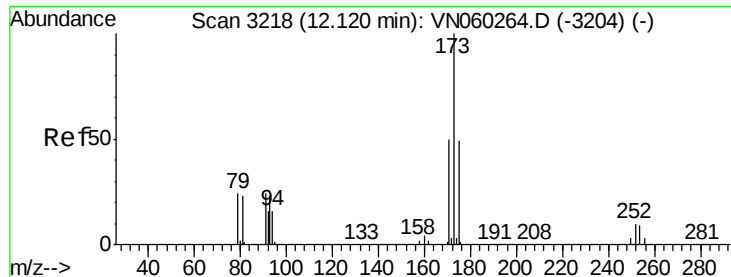


Abundance Ion 116.90 (116.60 to 117.60): VN060264.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060264.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060264.D (-2979) (-)





#71

Bromoform

Concen: 0.567 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

Instrument :

MSVOA_N

ClientSampled :

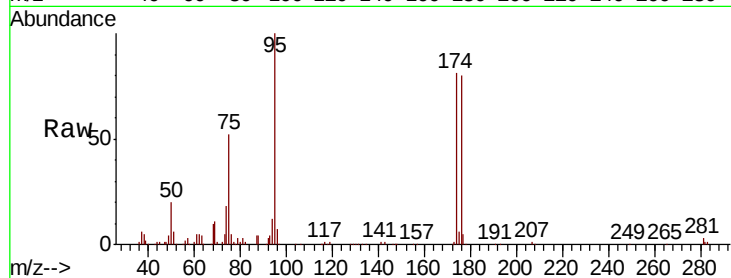
Tot Ion:173 Resp: 1050

Ion Ratio Lower Upper

173 100

175 823.9 24.1 72.2#

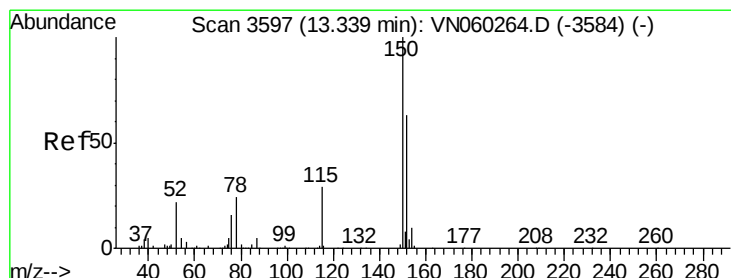
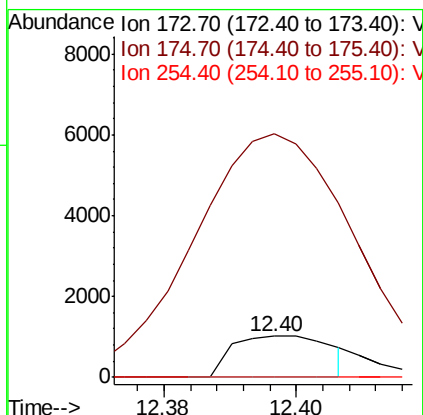
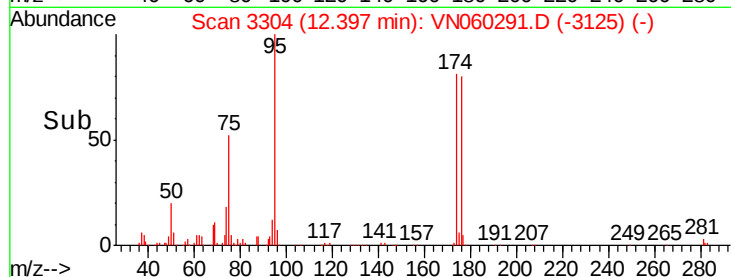
254 0.0 0.0 0.0



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: VN060291.D

Acq: 28 Feb 2020 17:42

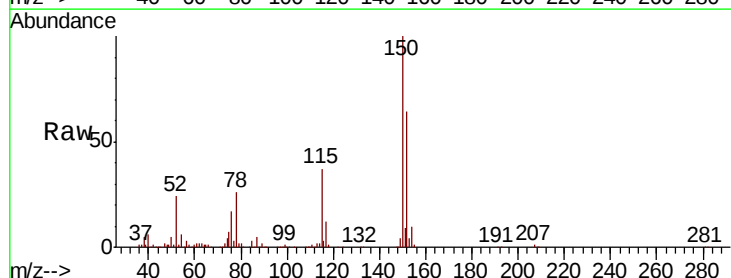
Tgt Ion:152 Resp: 166444

Ion Ratio Lower Upper

152 100

115 58.2 30.0 90.0

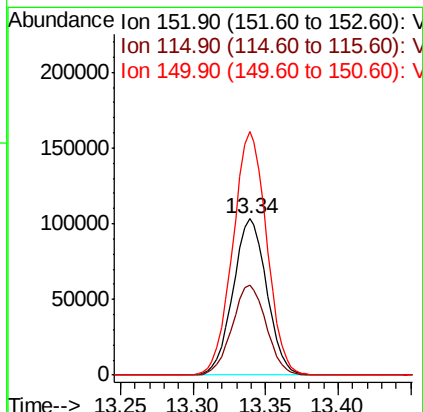
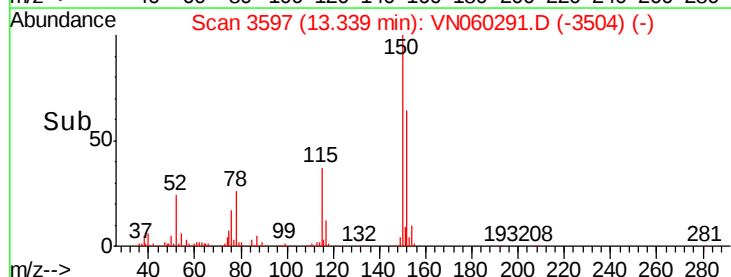
150 156.4 0.0 349.6

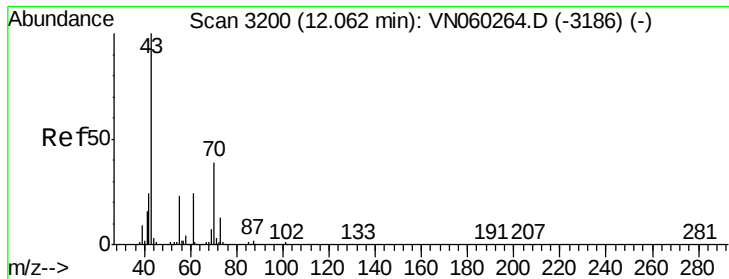


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.723 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060291.D

Acq: 28 Feb 2020 17:42

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 3898

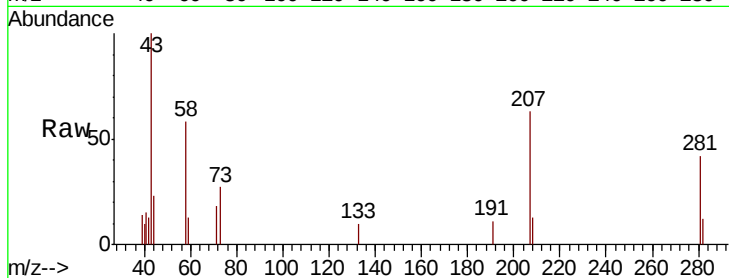
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

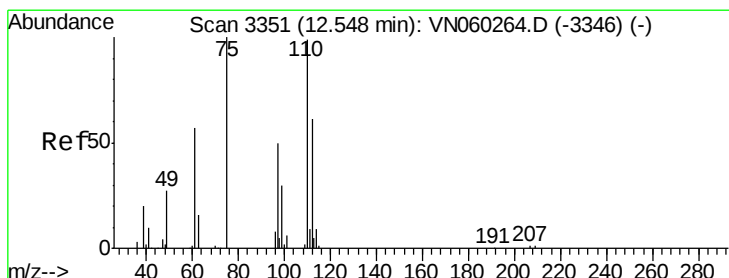
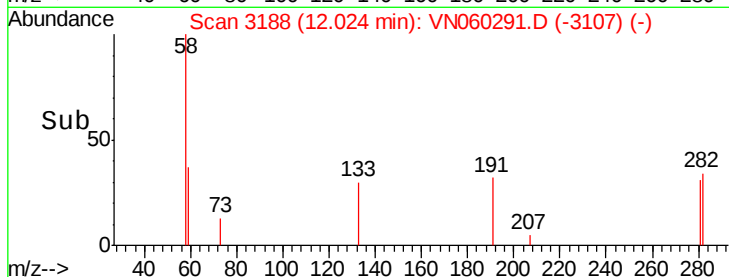
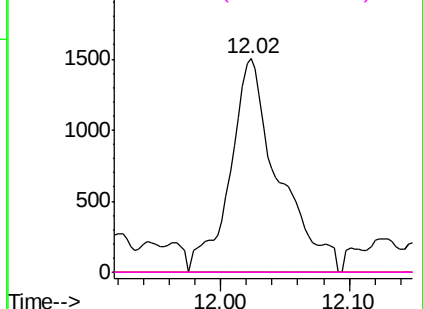


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.022 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060291.D

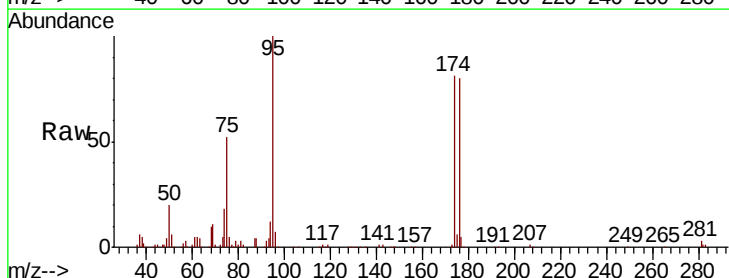
Acq: 28 Feb 2020 17:42

Tgt Ion: 75 Resp: 87725

Ion Ratio Lower Upper

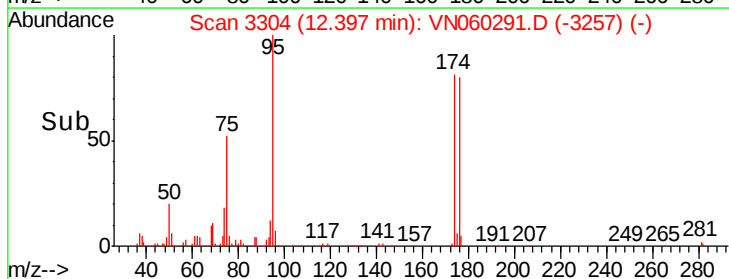
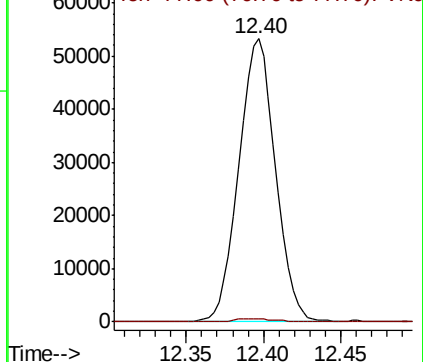
75 100

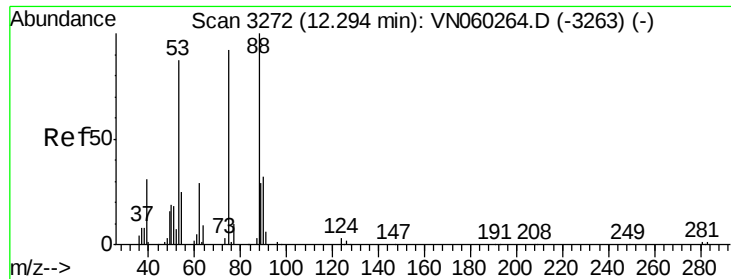
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

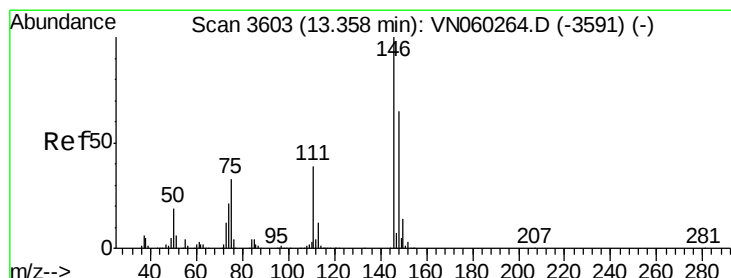
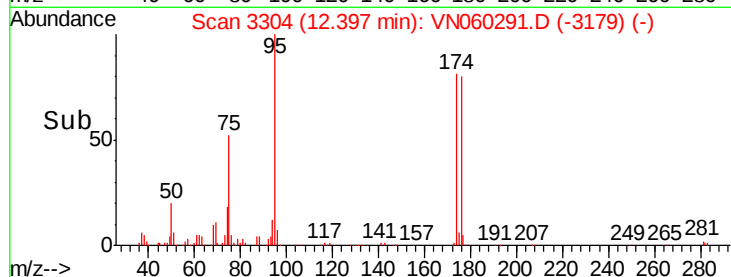
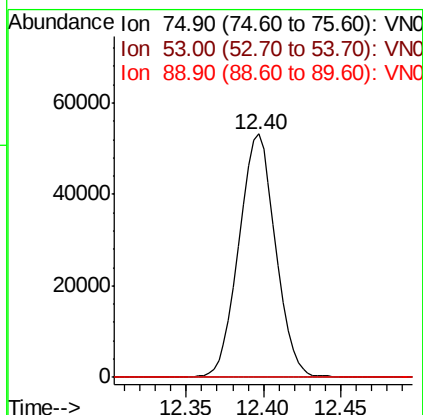
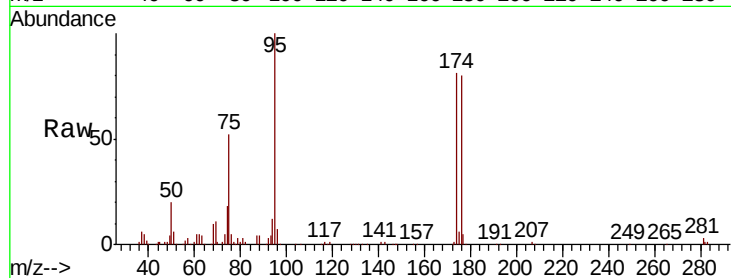




#81
trans-1,4-Dichloro-2-butene
Concen: 66.313 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

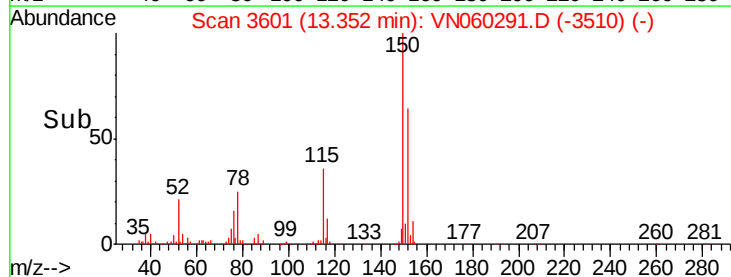
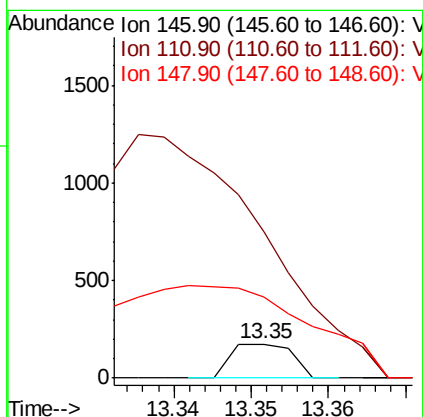
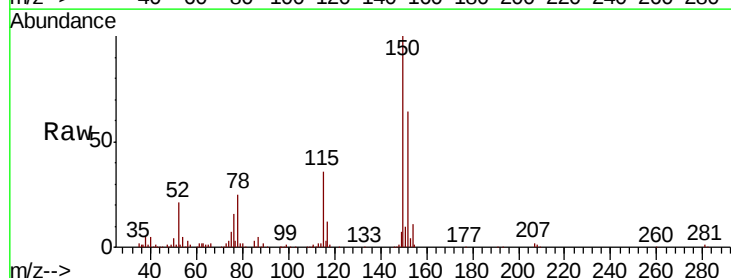
Instrument :
MSVOA_N
ClientSampleId :

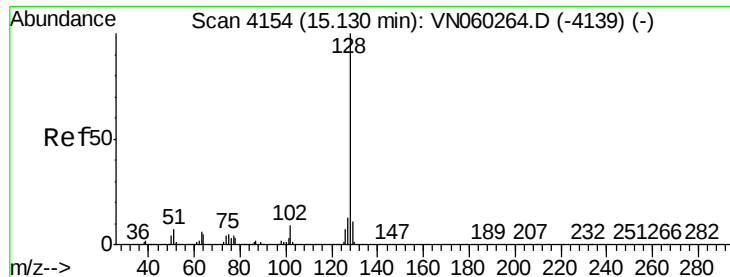
Tot Ion: 75 Resp: 87725
Ion Ratio Lower Upper
75 100
53 0.0 73.8 110.6#
89 0.0 57.1 85.7#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.35 min Scan# 3601
Delta R.T. -0.01 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

Tgt Ion: 146 Resp: 95
Ion Ratio Lower Upper
146 100
111 2178.9 19.8 59.4#
148 887.4 32.3 96.9#

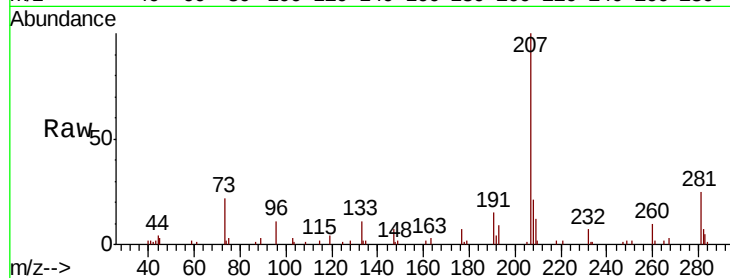




#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN060291.D
Acq: 28 Feb 2020 17:42

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	8.6	13.0#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

