

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020720\
 Data File : VN060022.D
 Acq On : 7 Feb 2020 11:35
 Operator : JC/MD
 Sample : L1431-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 07 23:12:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jan 18 03:09:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	193860	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	306210	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	284958	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	128316	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	115776	53.78	ug/l	0.00
Spiked Amount						
						Recovery = 107.56%
35) Dibromofluoromethane	7.57	113	93416	51.16	ug/l	0.00
Spiked Amount						
						Recovery = 102.32%
50) Toluene-d8	10.08	98	367783	51.98	ug/l	0.00
Spiked Amount						
						Recovery = 103.96%
62) 4-Bromofluorobenzene	12.40	95	131721	51.64	ug/l	0.00
Spiked Amount						
						Recovery = 103.28%

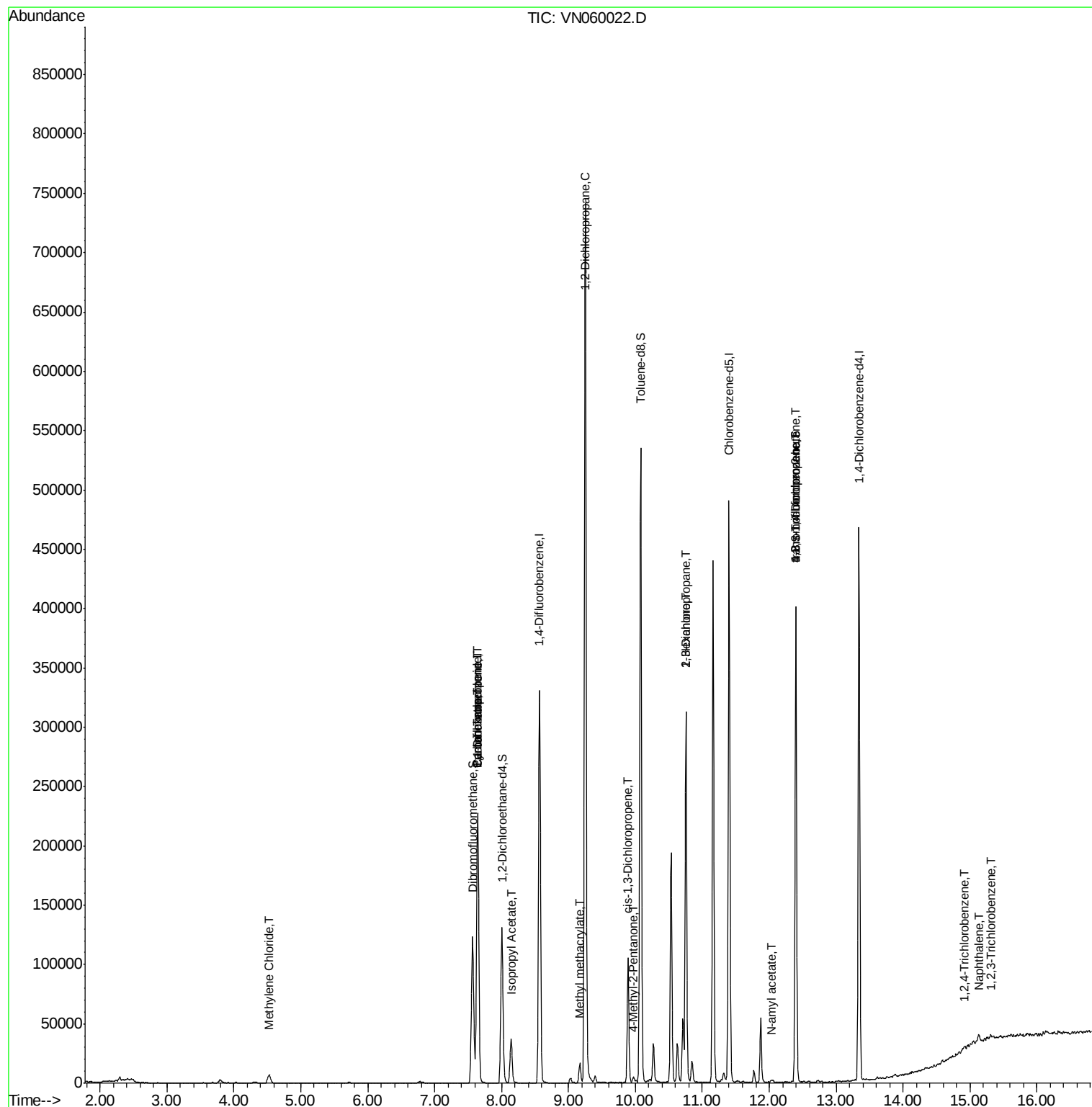
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5854	Below Cal		100
20) Methylene Chloride	4.52	84	5701	1.676	ug/l	89
31) Cyclohexane	7.64	56	3566	1.120	ug/l #	5
36) 1,1-Dichloropropene	7.64	75	13852	5.195	ug/l #	50
38) Carbon Tetrachloride	7.64	117	18490	6.374	ug/l #	15
43) Isopropyl Acetate	8.14	43	44049	10.240	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	812	0.413	ug/l #	44
48) Methyl methacrylate	9.16	41	2551	1.326	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	3362	1.352	ug/l	94
54) cis-1,3-Dichloropropene	9.89	75	19747	6.008	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	3451	1.093	ug/l #	42
59) 2-Hexanone	10.75	43	46099	25.163	ug/l #	55
74) N-amyl acetate	12.02	43	1303	0.357	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	67582	31.296	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	67582	67.209	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.27	75	60	Below Cal	#	6
93) 1,2,4-Trichlorobenzene	14.91	180	771	0.314	ug/l #	81
95) Naphthalene	15.13	128	5063	0.724	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	802	0.335	ug/l	91

(#) = 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: VN060022.D

Acq: 7 Feb 2020 11:35

Instrument :

MSVOA_N

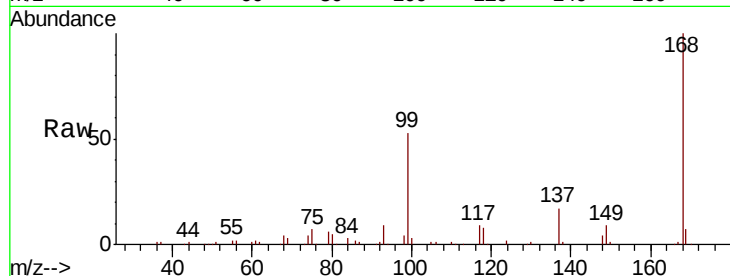
ClientSampleId :

Tot Ion:168 Resp: 193860

Ion Ratio Lower Upper

168 100

99 53.3 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): VN059690.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059690.D (-1807) (-)

7.64

80000

60000

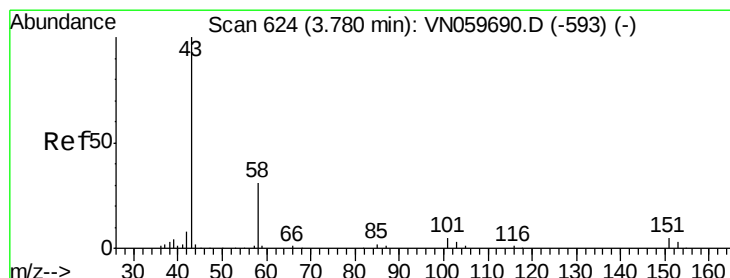
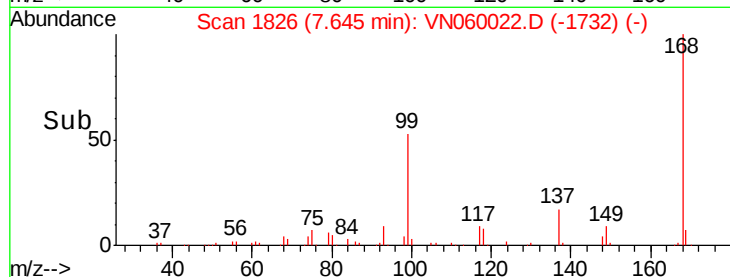
40000

20000

0

7.60 7.70

Time-->



#16

Acetone

Concen: Below Cal

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060022.D

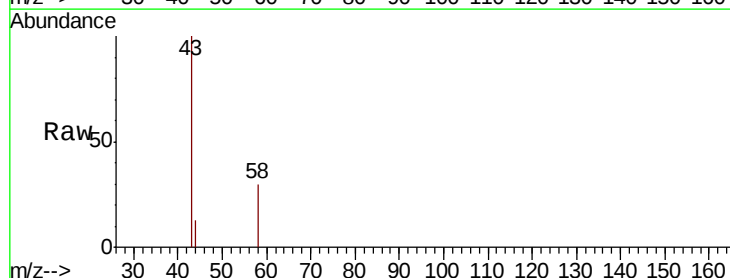
Acq: 7 Feb 2020 11:35

Tgt Ion: 43 Resp: 5854

Ion Ratio Lower Upper

43 100

58 29.7 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN059690.D (-593) (-)

Ion 58.00 (57.70 to 58.70): VN059690.D (-593) (-)

3.79

2000

1500

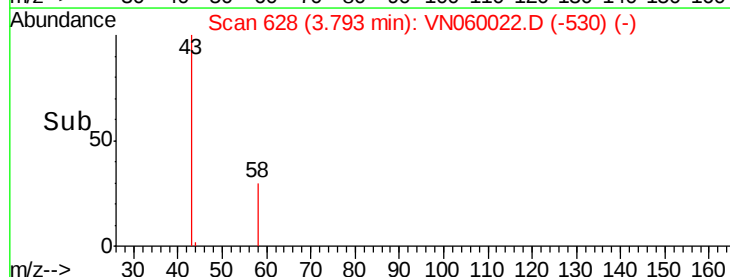
1000

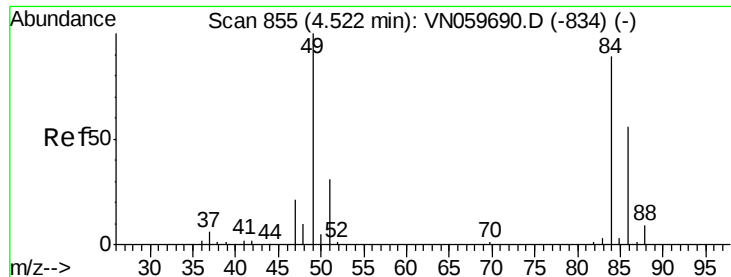
500

0

3.70 3.80 3.90

Time-->

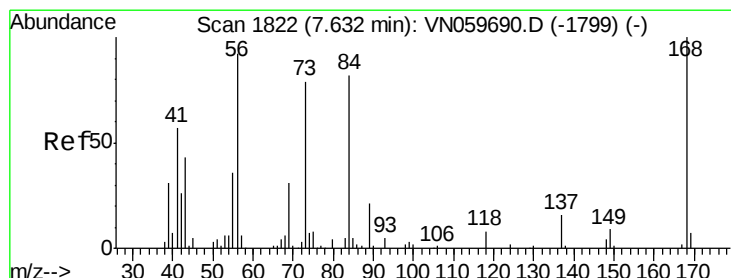
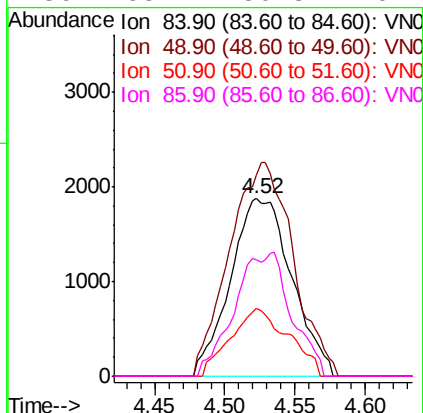
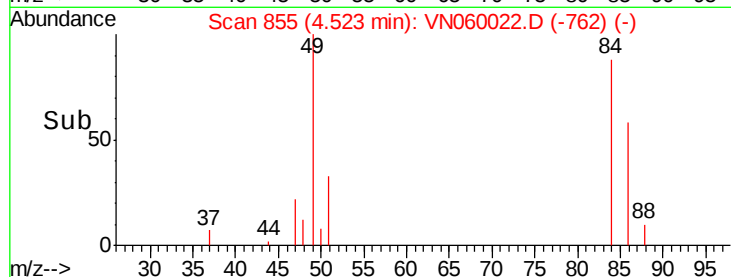
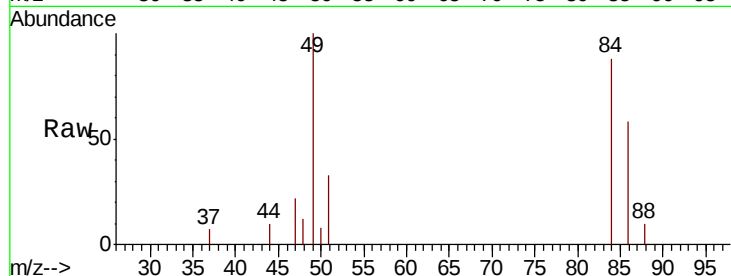




#20
Methvlene Chloride
Concen: 1.676 ug/l
RT: 4.52 min Scan# 855
Delta R.T. 0.00 min
Lab File: VN060022.D
Acq: 7 Feb 2020 11:35

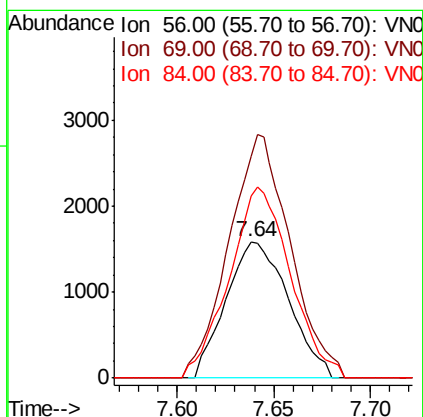
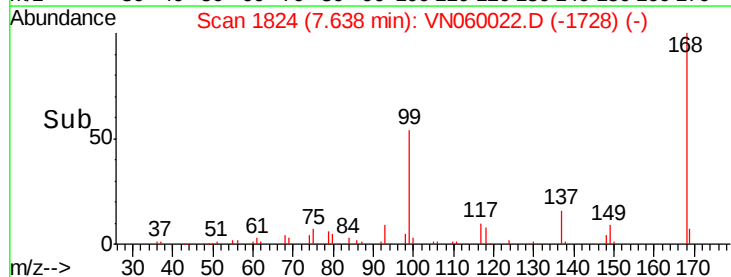
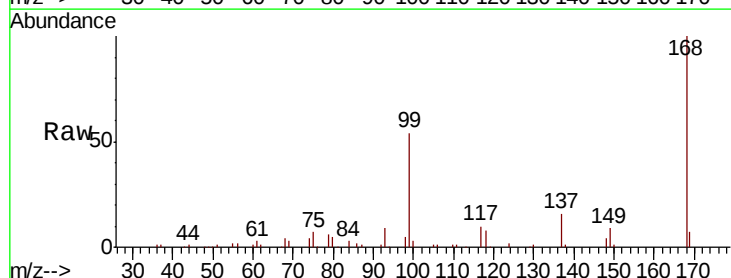
Instrument :
MSVOA_N
ClientSampleId :

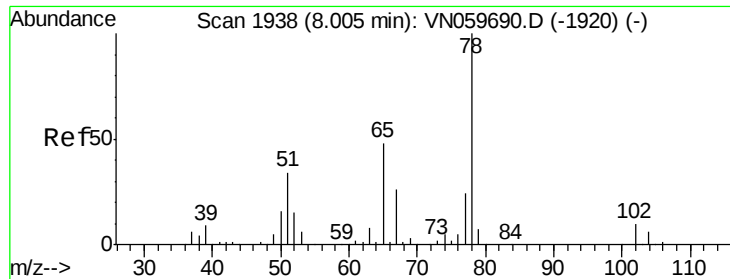
Tot Ion:	84	Resp:	5701
Ion	Ratio	Lower	Upper
84	100		
49	113.1	106.6	160.0
51	37.8	31.9	47.9
86	65.2	50.8	76.2



#31
Cyclohexane
Concen: 1.120 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060022.D
Acq: 7 Feb 2020 11:35

Tgt Ion:	56	Resp:	3566
Ion	Ratio	Lower	Upper
56	100		
69	152.6	26.5	39.7#
84	124.1	65.3	97.9#

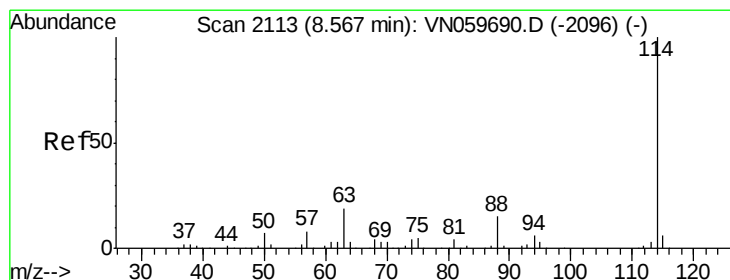
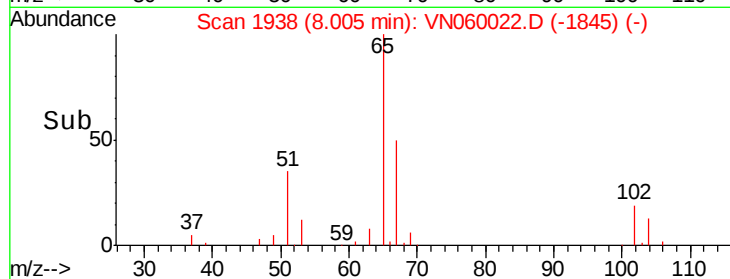
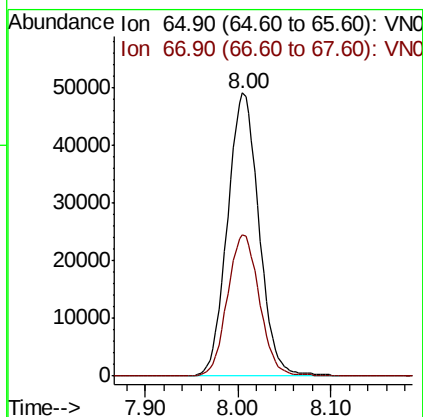
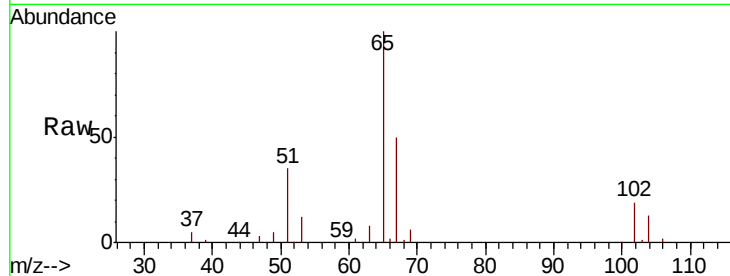




#33
 1,2-Dichloroethane-d4
 Concen: 53.778 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060022.D
 Acq: 7 Feb 2020 11:35

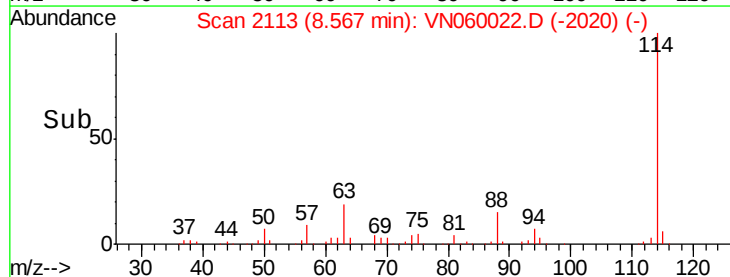
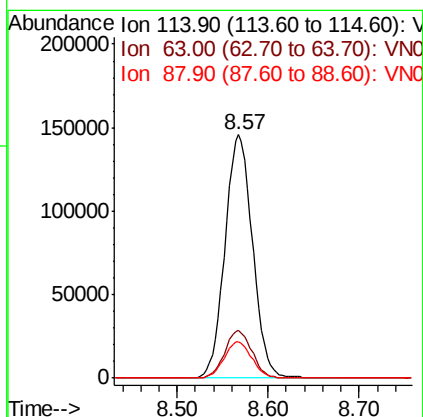
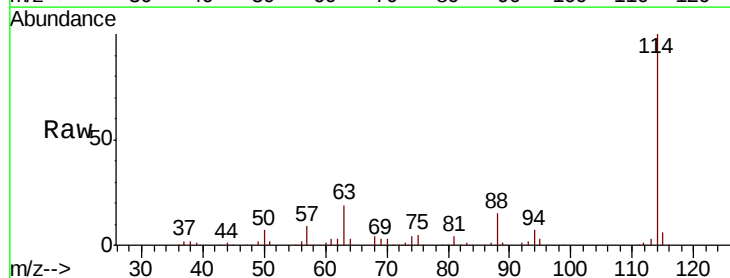
Instrument :
 MSVOA_N
 ClientSampled :

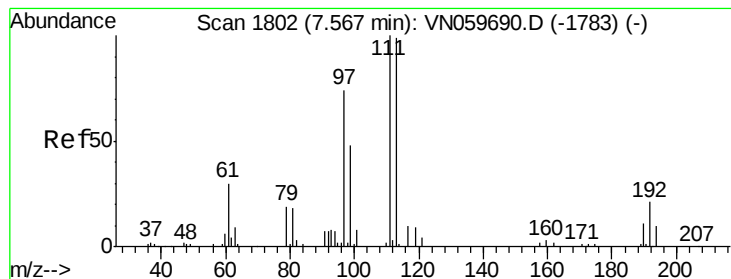
Tot Ion: 65 Resp: 115776
 Ion Ratio Lower Upper
 65 100
 67 50.6 0.0 103.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060022.D
 Acq: 7 Feb 2020 11:35

Tgt Ion: 114 Resp: 306210
 Ion Ratio Lower Upper
 114 100
 63 19.4 0.0 43.6
 88 15.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 51.157 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

Instrument :
MSVOA_N
ClientSampleId :

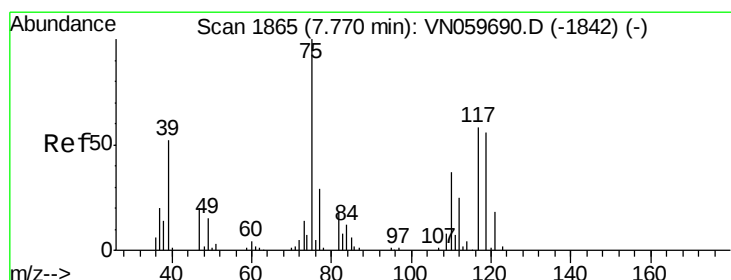
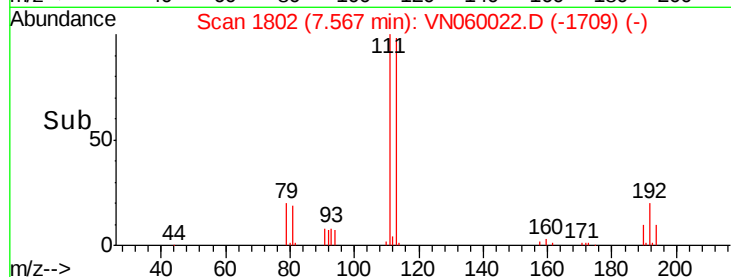
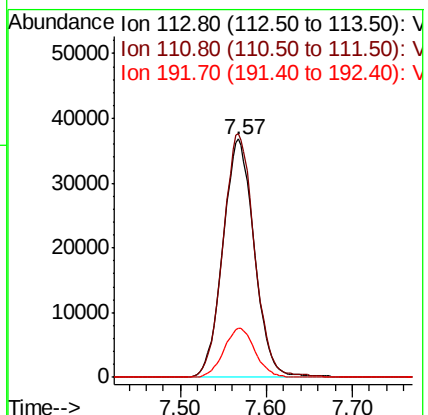
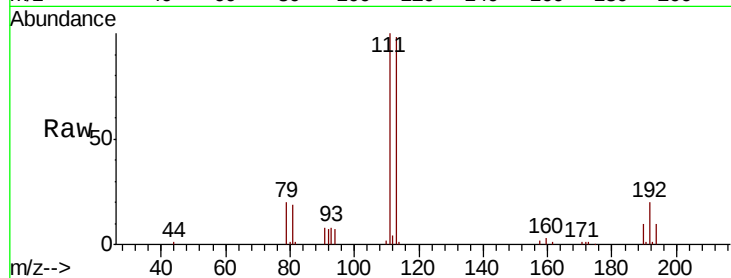
Tot Ion:113 Resp: 93416

Ion Ratio Lower Upper

113 100

111 101.9 83.5 125.3

192 20.3 15.4 23.2



#36

1,1-Dichloropropene

Concen: 5.195 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

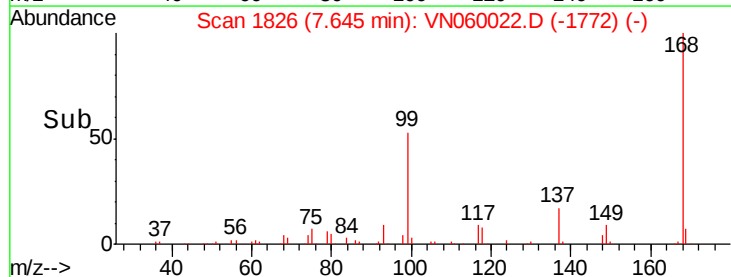
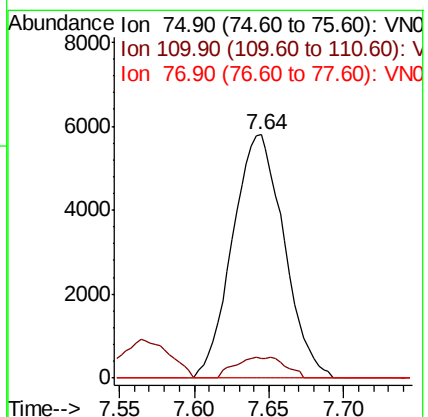
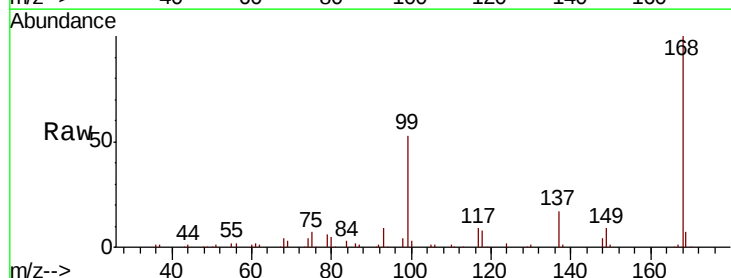
Tgt Ion: 75 Resp: 13852

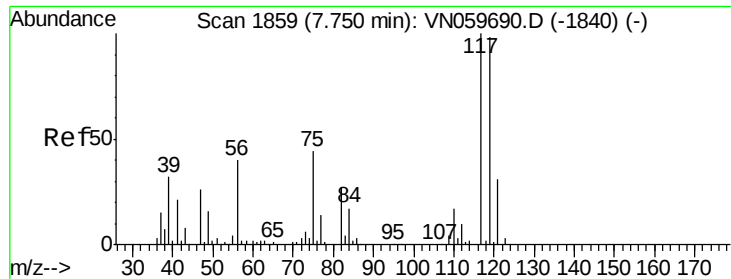
Ion Ratio Lower Upper

75 100

110 8.3 16.6 49.7#

77 0.0 25.1 37.7#





#38

Carbon Tetrachloride

Concen: 6.374 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

Instrument :

MSVOA_N

ClientSampleId :

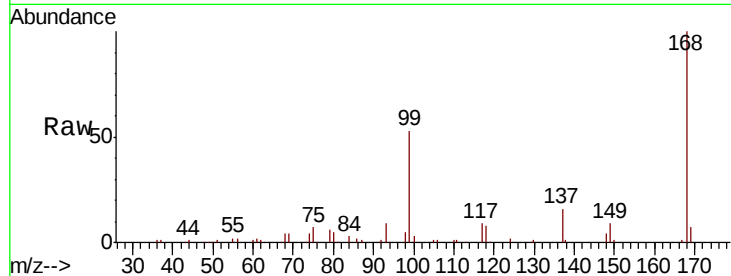
Tot Ion:117 Resp: 18490

Ion Ratio Lower Upper

117 100

119 4.2 76.5 114.7#

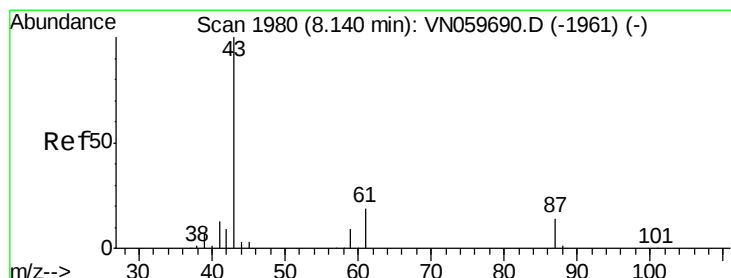
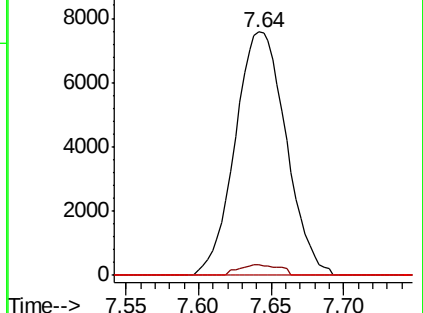
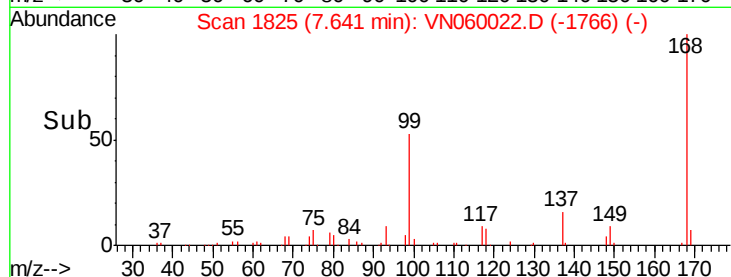
121 0.0 25.1 37.7#



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: 10.240 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

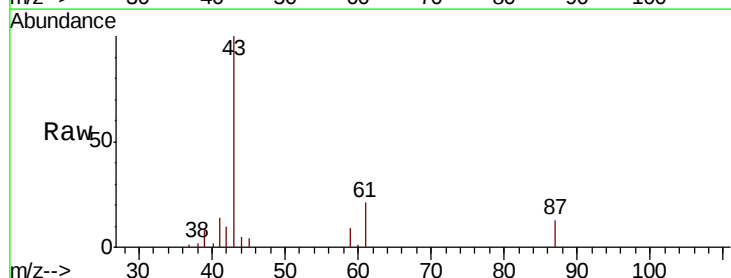
Tgt Ion: 43 Resp: 44049

Ion Ratio Lower Upper

43 100

61 20.0 20.2 30.2#

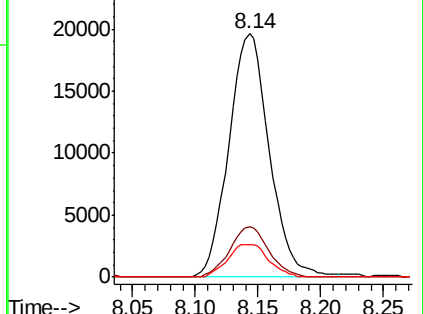
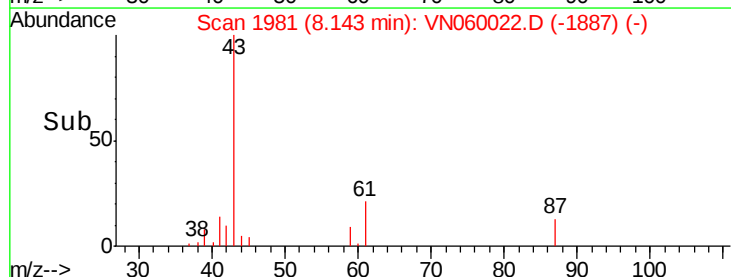
87 13.6 9.5 14.3

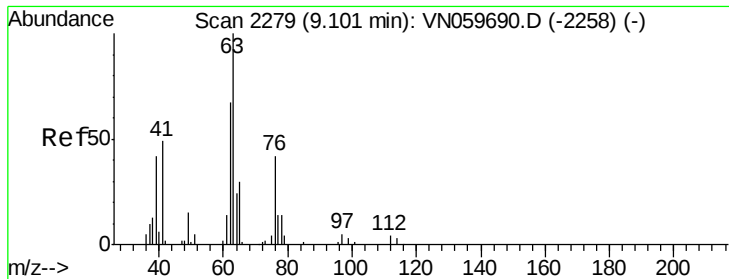


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.413 ug/l

RT: 9.25 min Scan# 2324

Delta R.T. 0.14 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

Instrument :

MSVOA_N

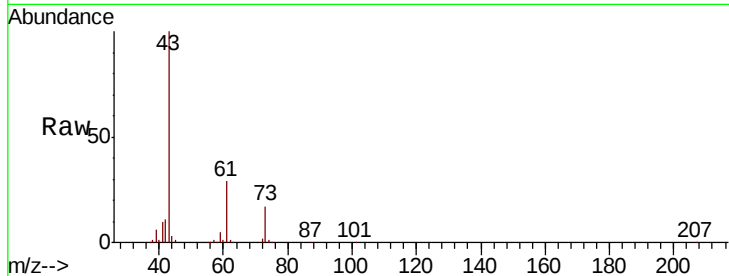
ClientSampleId :

Tot Ion: 63 Resp: 812

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

500

400

300

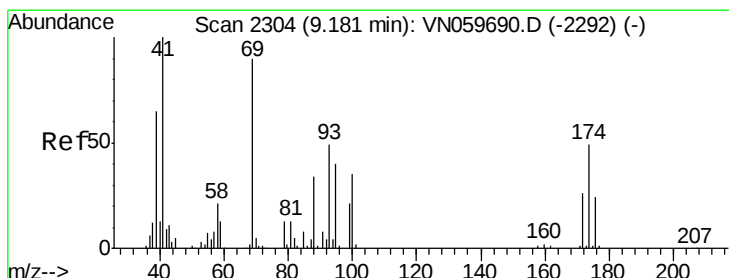
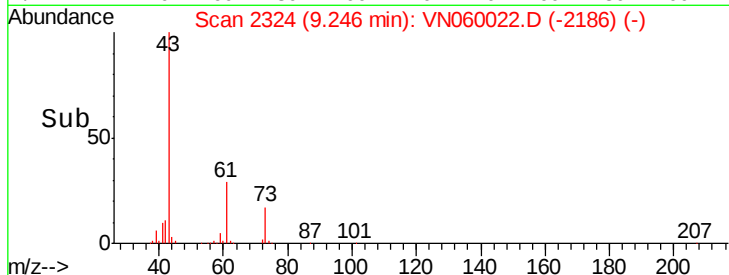
200

100

0

9.22 9.24 9.26 9.28

Time-->



#48

Methyl methacrylate

Concen: 1.326 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

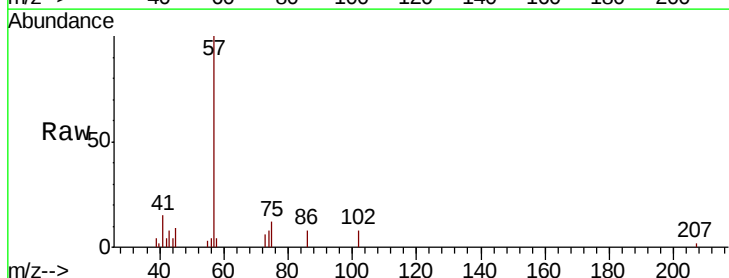
Tgt Ion: 41 Resp: 2551

Ion Ratio Lower Upper

41 100

69 0.0 64.4 96.6#

39 0.0 51.3 76.9#



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

30000

25000

20000

15000

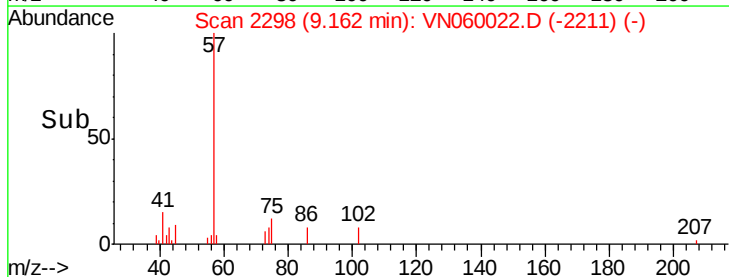
10000

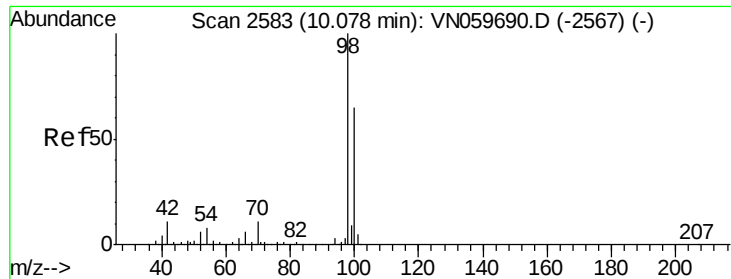
5000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 51.983 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

Instrument :

MSVOA_N

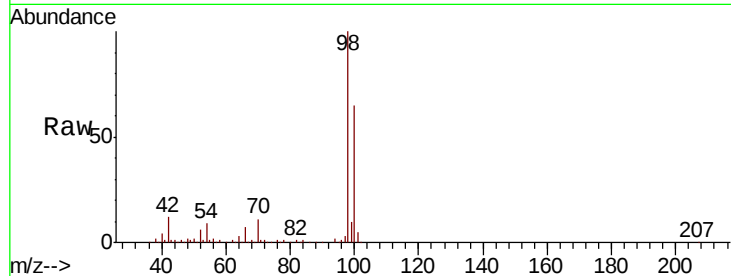
ClientSampled :

Tot Ion: 98 Resp: 367783

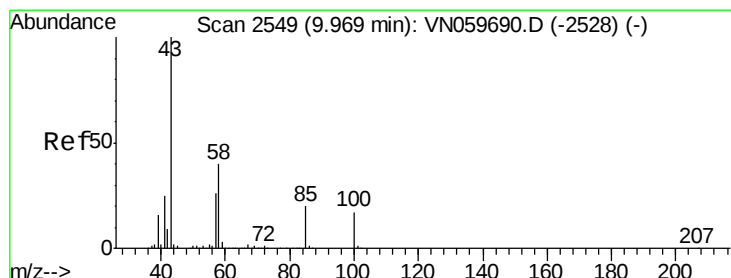
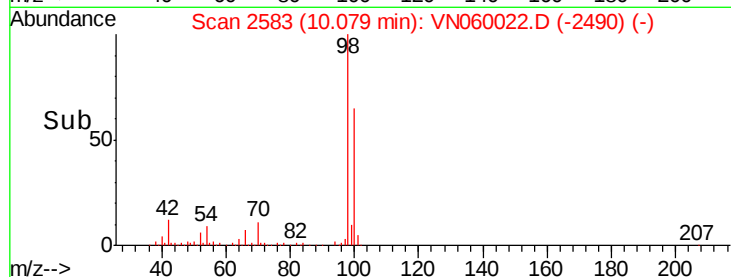
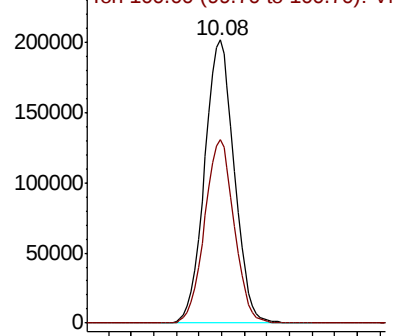
Ion Ratio Lower Upper

98 100

100 64.5 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN060022.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.352 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060022.D

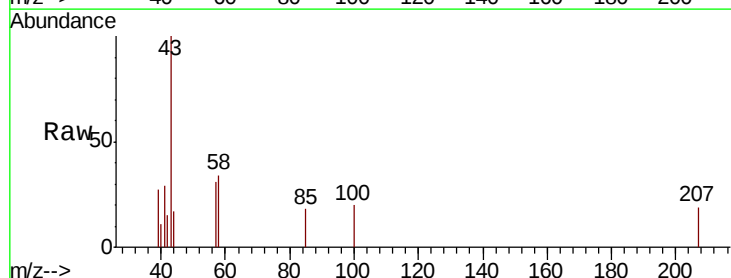
Acq: 7 Feb 2020 11:35

Tgt Ion: 43 Resp: 3362

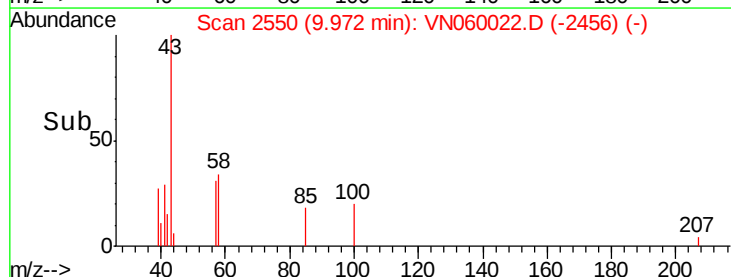
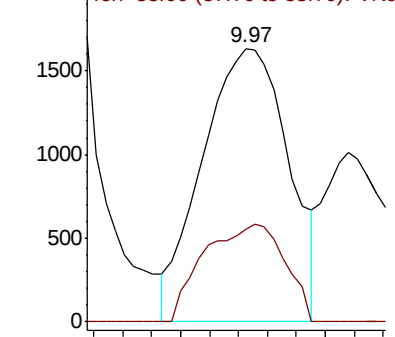
Ion Ratio Lower Upper

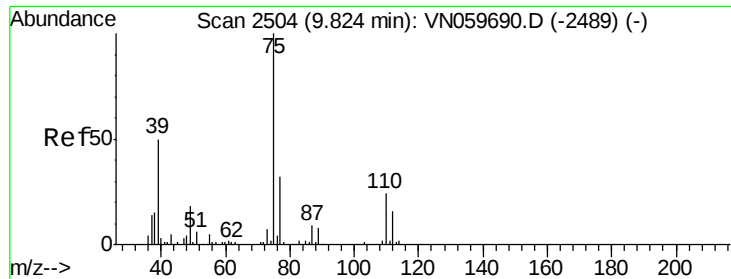
43 100

58 33.6 29.8 44.8



Abundance Ion 43.00 (42.70 to 43.70): VN060022.D (-2456) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.008 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

Instrument :

MSVOA_N

ClientSampled :

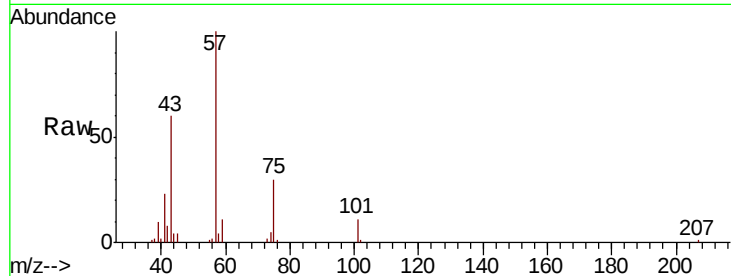
Tot Ion: 75 Resp: 19747

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

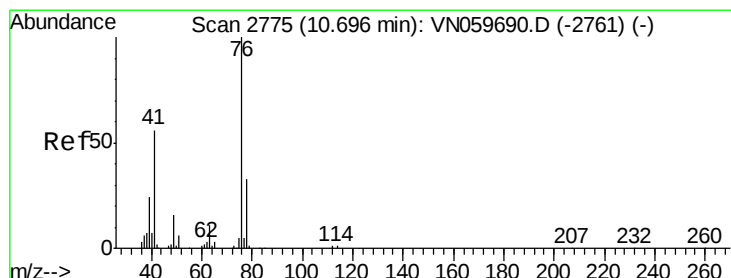
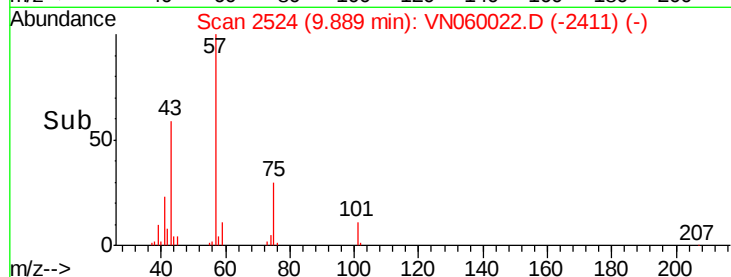
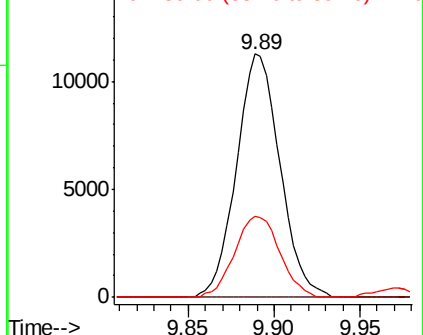
39 33.1 46.1 69.1#



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: 1.093 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060022.D

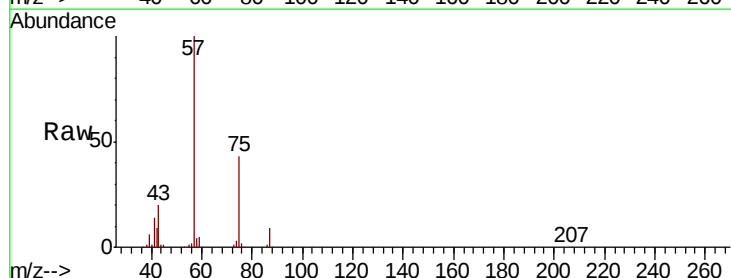
Acq: 7 Feb 2020 11:35

Tgt Ion: 76 Resp: 3451

Ion Ratio Lower Upper

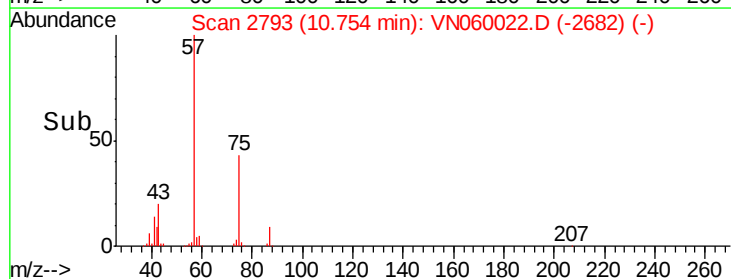
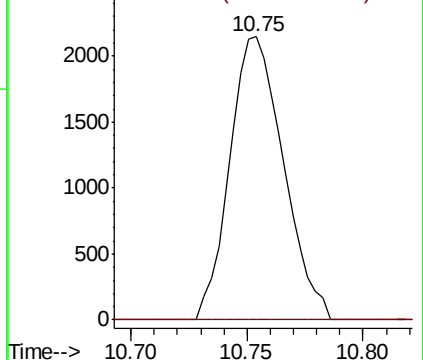
76 100

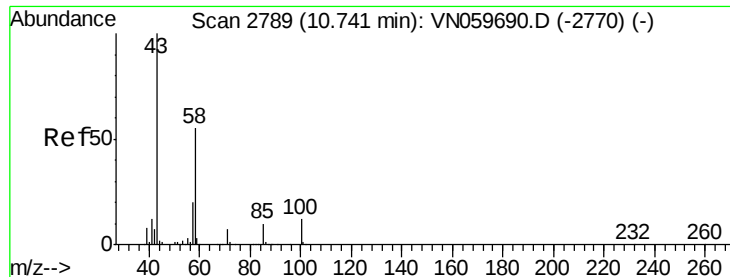
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

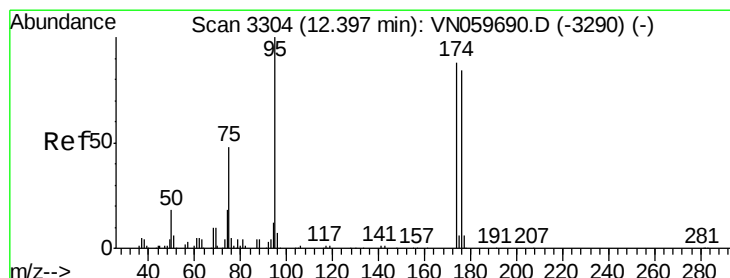
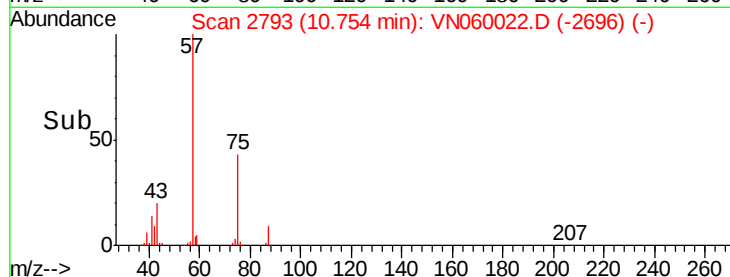
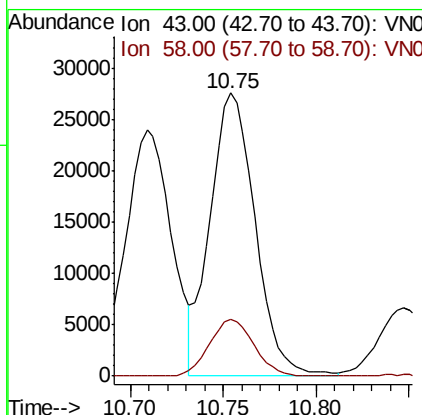
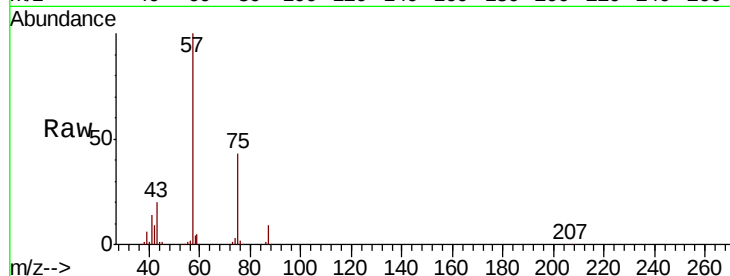




#59
2-Hexanone
Concen: 25.163 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN060022.D
Acq: 7 Feb 2020 11:35

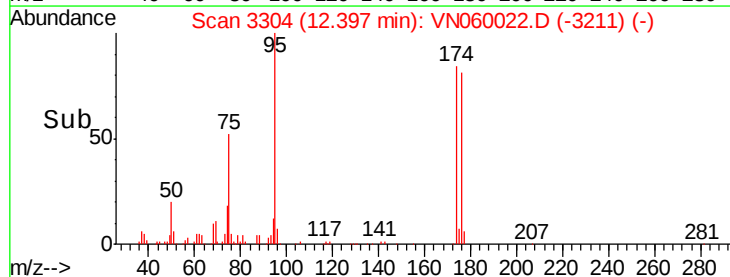
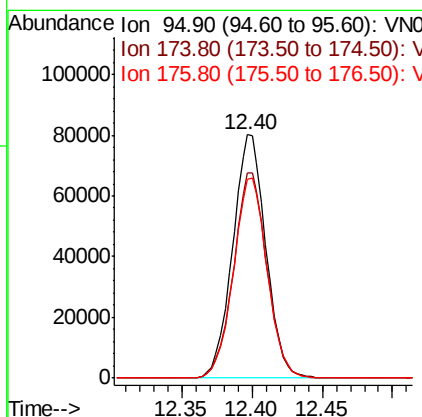
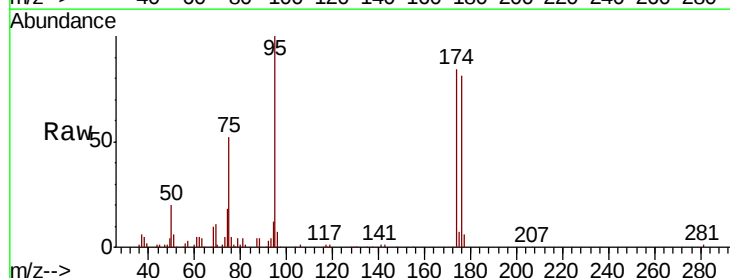
Instrument :
MSVOA_N
ClientSampleId :

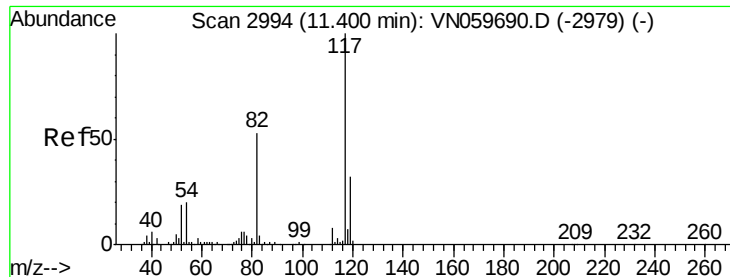
Tot Ion: 43 Resp: 46099
Ion Ratio Lower Upper
43 100
58 19.9 25.8 77.3#



#62
4-Bromofluorobenzene
Concen: 51.644 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060022.D
Acq: 7 Feb 2020 11:35

Tgt Ion: 95 Resp: 131721
Ion Ratio Lower Upper
95 100
174 85.1 0.0 151.4
176 83.3 0.0 146.0

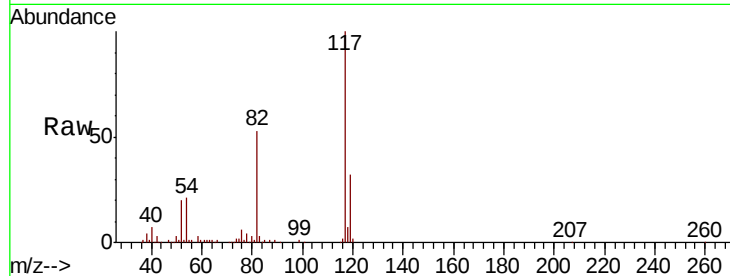




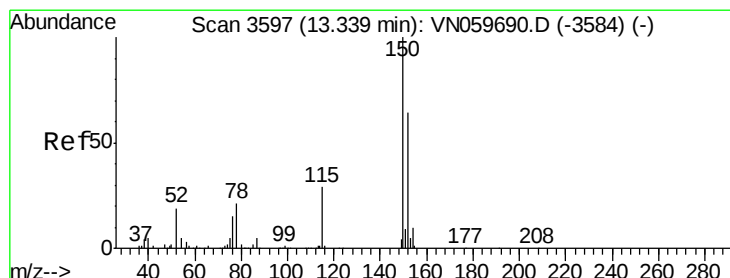
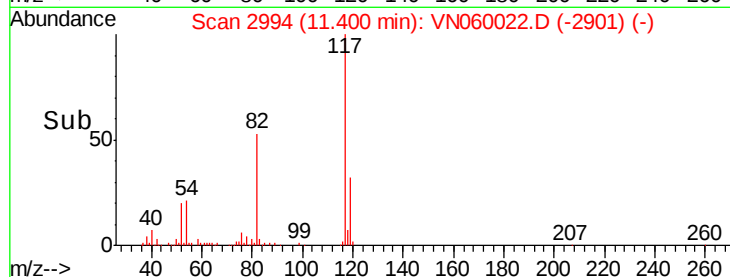
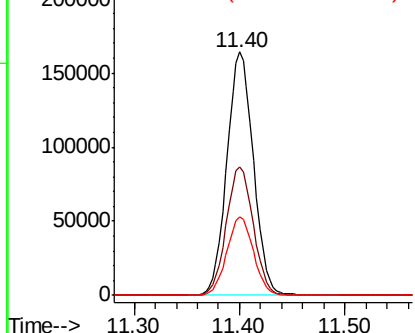
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060022.D
Acq: 7 Feb 2020 11:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 284958
Ion Ratio Lower Upper
117 100
82 52.8 45.9 68.9
119 32.1 25.5 38.3

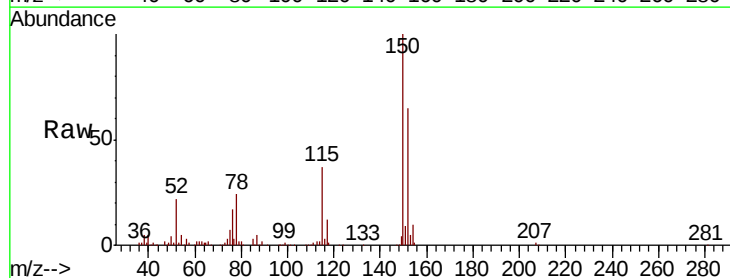


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

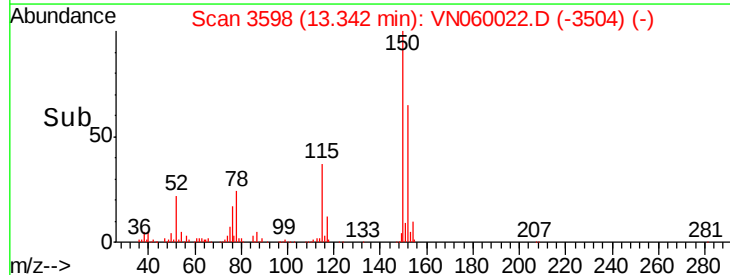
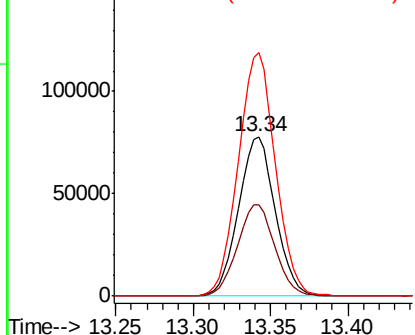


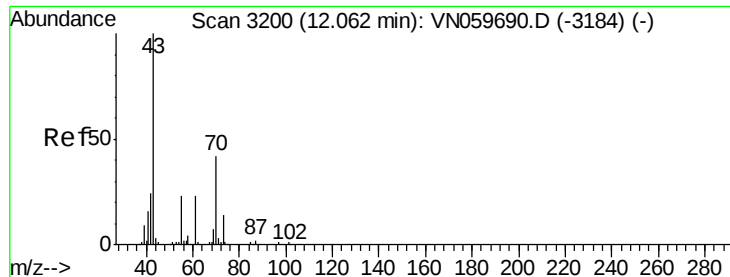
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN060022.D
Acq: 7 Feb 2020 11:35

Tgt Ion:152 Resp: 128316
Ion Ratio Lower Upper
152 100
115 58.2 30.3 90.9
150 154.6 0.0 345.2



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: 0.357 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060022.D

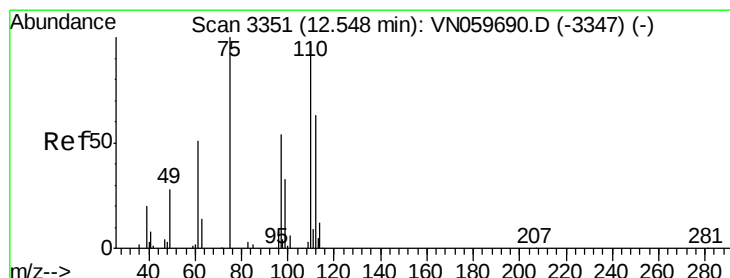
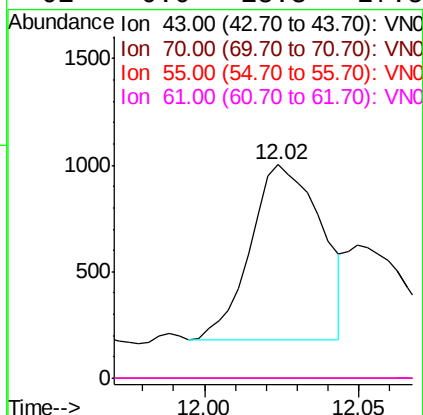
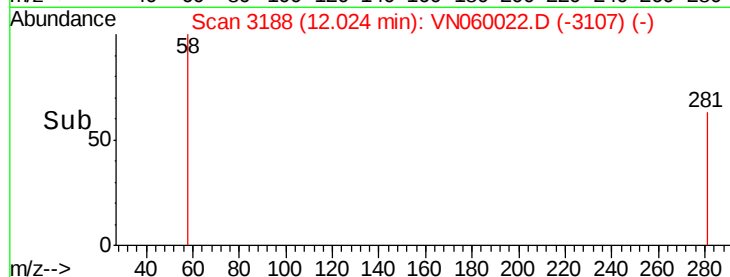
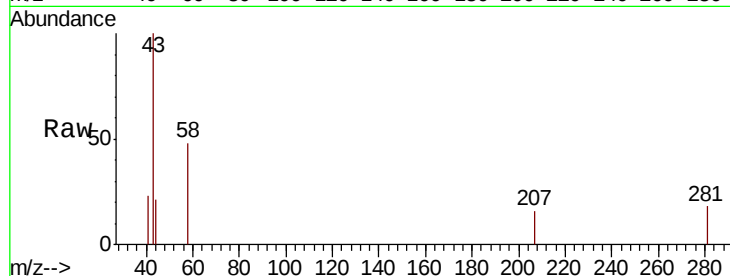
Acq: 7 Feb 2020 11:35

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	1303
Ion	Ratio	Lower	Upper
43	100		
70	0.0	31.3	46.9#
55	0.0	19.8	29.6#
61	0.0	18.3	27.5#



#76

1,2,3-Trichloropropane

Concen: 31.296 ug/l

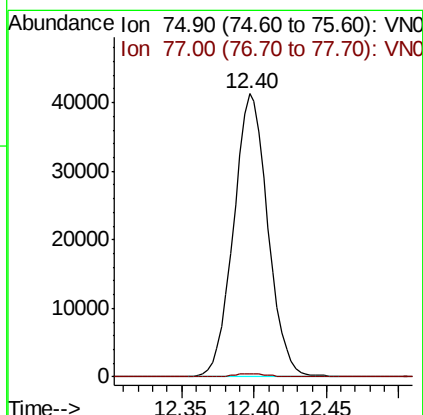
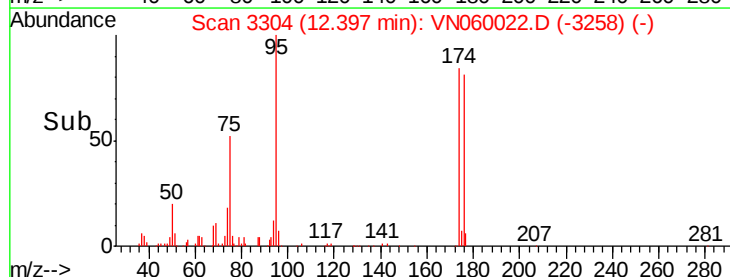
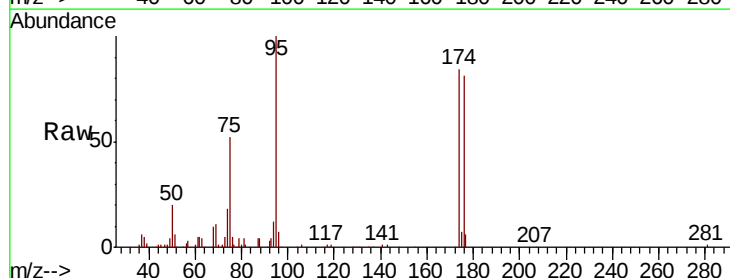
RT: 12.40 min Scan# 3304

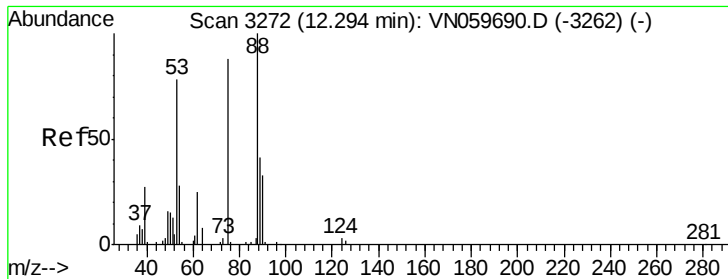
Delta R.T. -0.15 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

Tgt Ion:	75	Resp:	67582
Ion	Ratio	Lower	Upper
75	100		
77	1.1	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 67.209 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

Instrument :

MSVOA_N

ClientSampled :

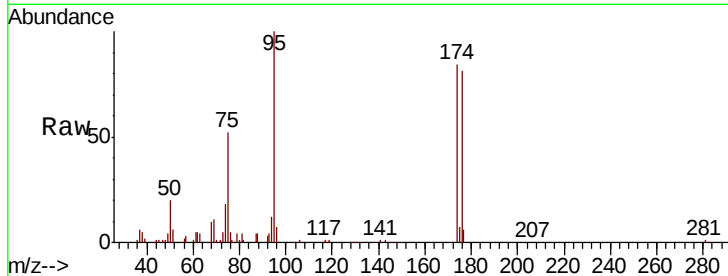
Tot Ion: 75 Resp: 67582

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

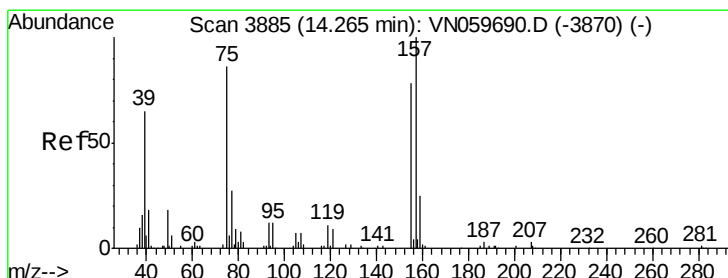
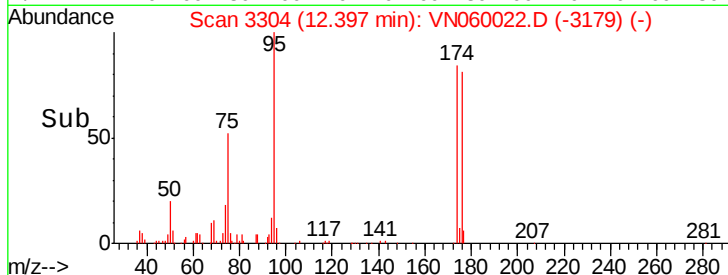
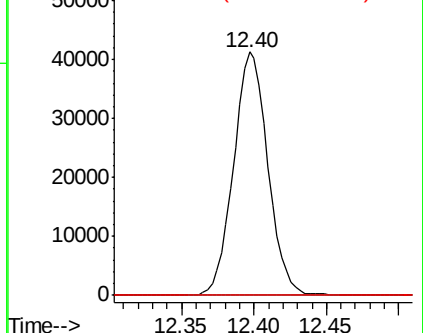
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.27 min Scan# 3886

Delta R.T. 0.00 min

Lab File: VN060022.D

Acq: 7 Feb 2020 11:35

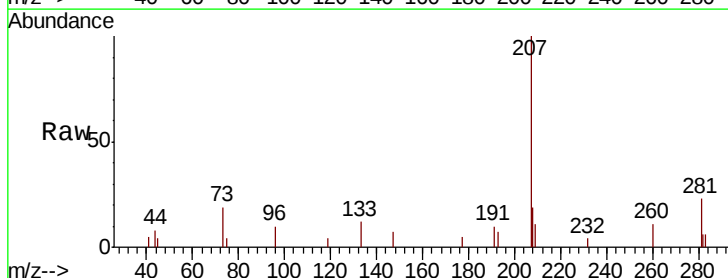
Tgt Ion: 75 Resp: 60

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

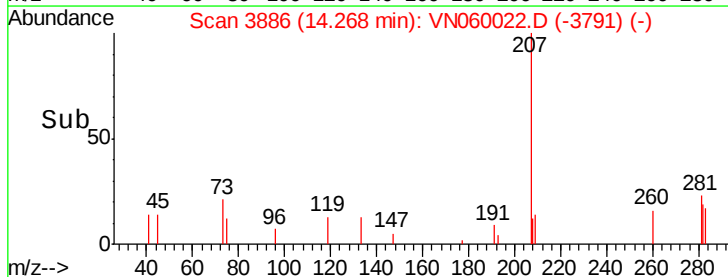
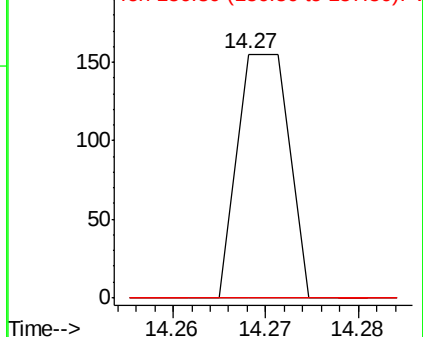
157 0.0 48.4 145.2#

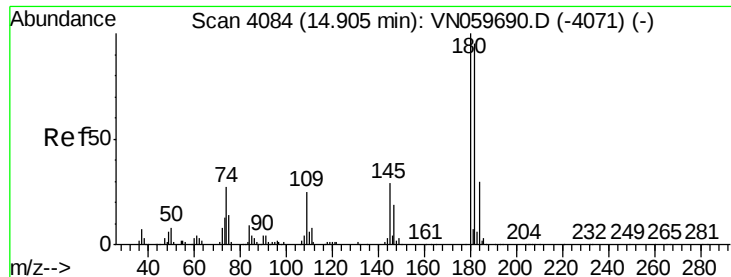


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

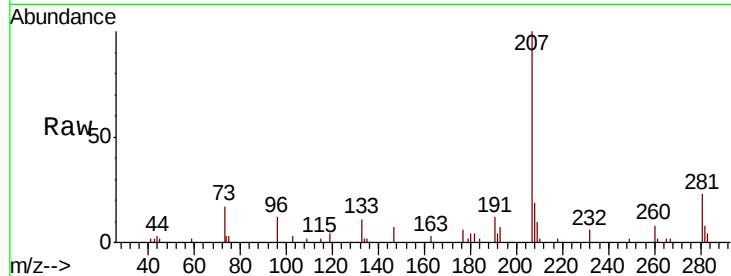




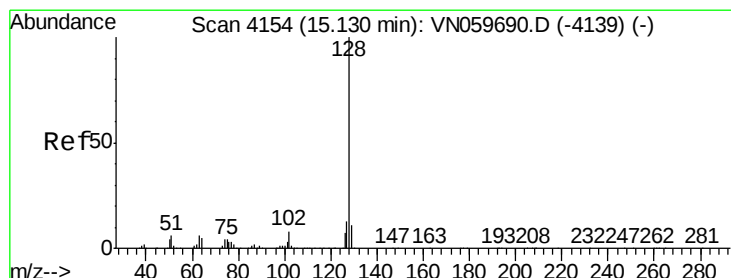
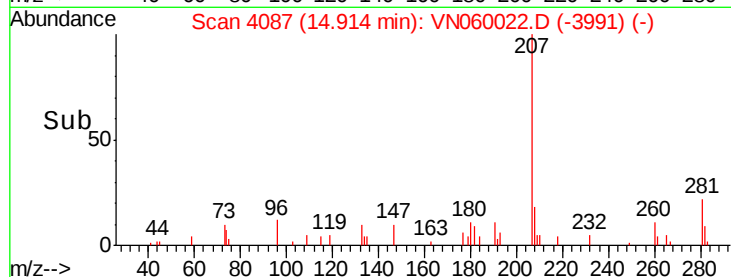
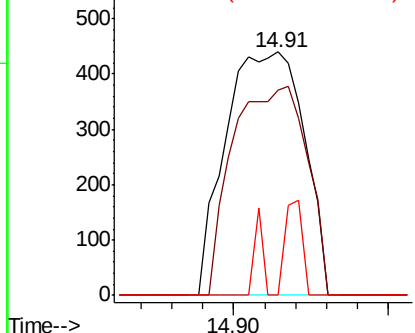
#93
 1,2,4-Trichlorobenzene
 Concen: 0.314 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.01 min
 Lab File: VN060022.D
 Acq: 7 Feb 2020 11:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 771
 Ion Ratio Lower Upper
 180 100
 182 81.6 46.9 140.7
 145 8.3 15.0 45.1#

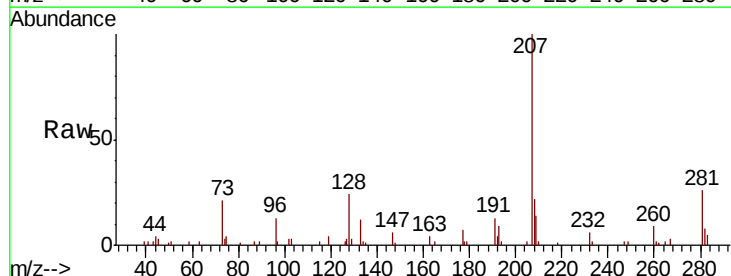


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

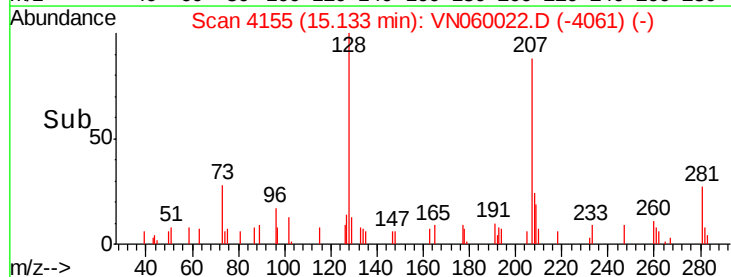
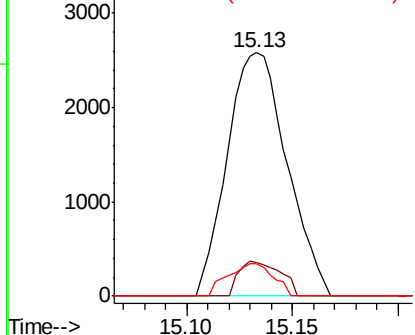


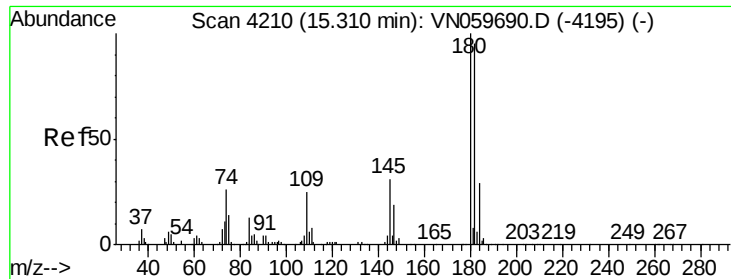
#95
 Naphthalene
 Concen: 0.724 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN060022.D
 Acq: 7 Feb 2020 11:35

Tgt Ion:128 Resp: 5063
 Ion Ratio Lower Upper
 128 100
 127 10.0 10.4 15.6#
 129 10.2 8.6 12.8



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

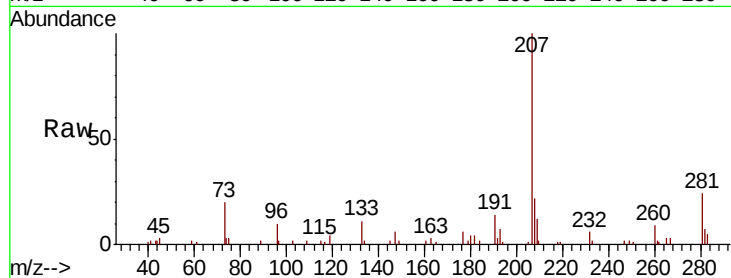




#96
 1,2,3-Trichlorobenzene
 Concen: 0.335 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN060022.D
 Acq: 7 Feb 2020 11:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.5	47.4	142.3
145	42.3	16.3	48.9



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

